

Pantheon Report

Generated at 2018-01-27 18:53:57 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

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

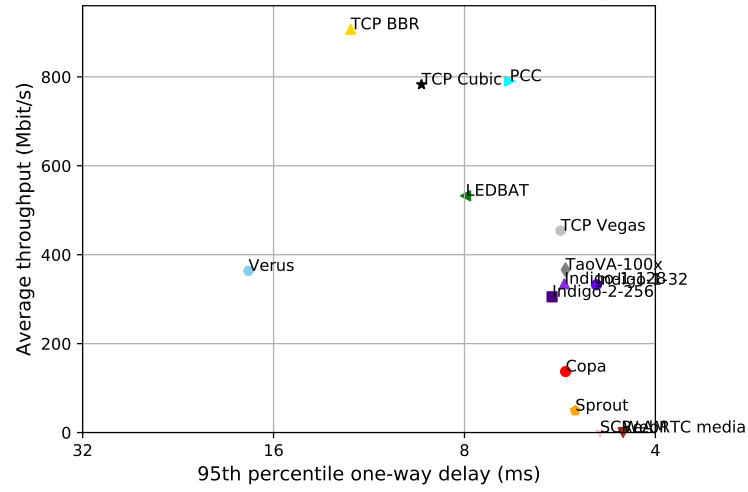
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

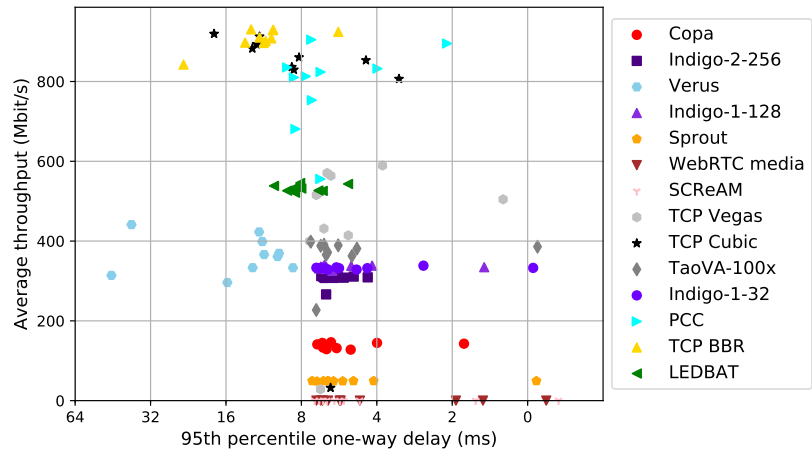
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from Stanford Ethernet to AWS California 1 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	542.58	388.67	319.54	13.96	12.10	8.60	0.04	0.11	0.21
TCP Cubic	10	449.42	358.94	285.15	9.77	7.82	7.85	0.11	0.13	0.27
LEDBAT	10	309.08	245.88	184.32	7.93	7.99	6.86	0.04	0.09	0.36
PCC	10	606.13	191.88	172.90	8.37	6.56	6.57	0.53	0.21	0.31
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.21	0.21	0.21	4.89	4.89	4.88	0.12	0.11	0.40
WebRTC media	10	0.05	0.05	0.05	4.53	4.51	4.46	0.10	0.84	0.01
Sprout	10	24.80	24.69	24.54	5.35	5.34	5.34	0.21	0.20	0.30
TaoVA-100x	10	204.70	182.03	122.01	5.45	5.68	5.82	0.07	0.10	0.23
TCP Vegas	10	247.16	193.30	236.13	5.60	5.66	5.71	0.15	0.10	0.22
Verus	10	207.73	170.85	130.91	22.67	9.64	8.23	0.33	0.07	0.12
Copa	10	72.49	67.08	60.64	5.54	5.54	5.56	0.06	0.09	0.17
Indigo-2-256	10	167.56	160.29	95.91	5.78	5.86	5.90	0.05	0.10	0.19
Indigo-1-32	10	176.50	162.76	146.84	4.92	4.99	5.02	0.05	0.08	0.20
Indigo-1-128	10	184.98	166.14	120.78	5.53	5.61	5.61	0.06	0.10	0.20

Run 1: Statistics of TCP BBR

Start at: 2018-01-27 00:27:23

End at: 2018-01-27 00:27:53

Local clock offset: -2.345 ms

Below is generated by plot.py at 2018-01-27 17:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 842.41 Mbit/s

95th percentile per-packet one-way delay: 23.631 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 474.38 Mbit/s

95th percentile per-packet one-way delay: 24.584 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 392.49 Mbit/s

95th percentile per-packet one-way delay: 20.314 ms

Loss rate: 0.10%

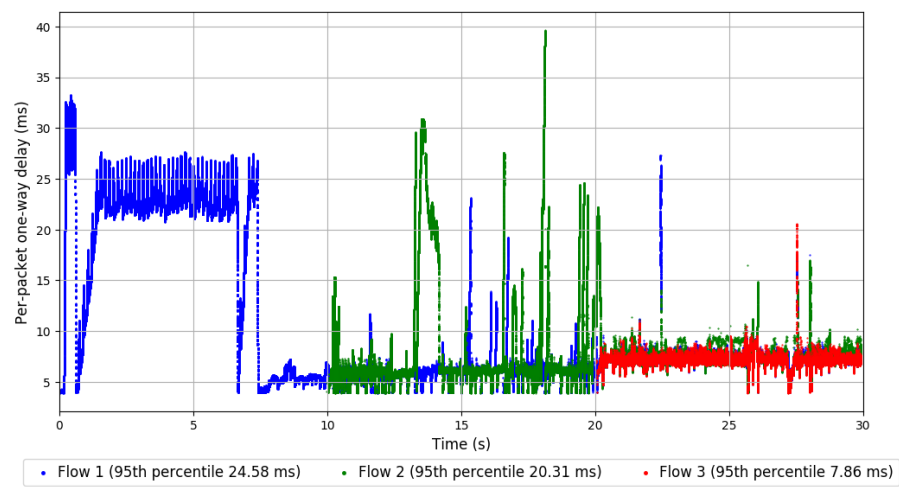
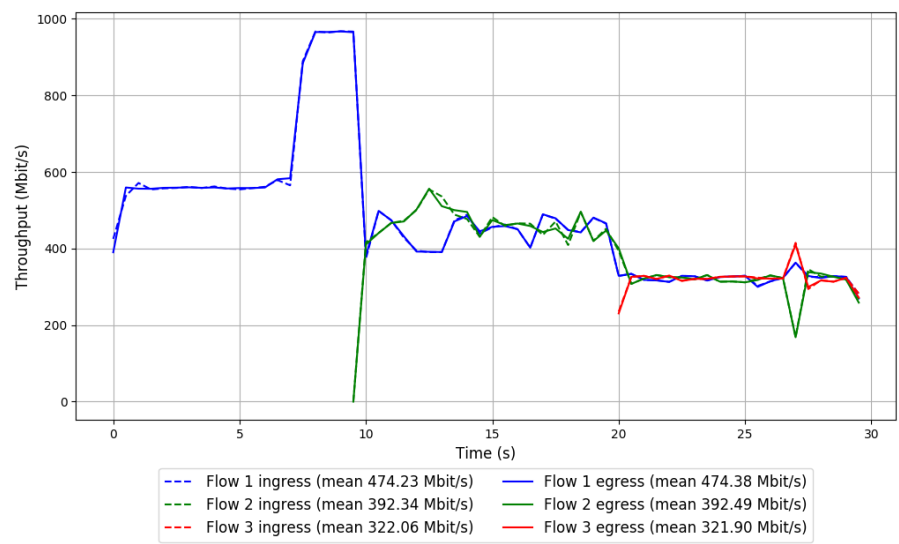
-- Flow 3:

Average throughput: 321.90 Mbit/s

95th percentile per-packet one-way delay: 7.855 ms

Loss rate: 0.27%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-27 01:18:09

End at: 2018-01-27 01:18:39

Local clock offset: -3.986 ms

Below is generated by plot.py at 2018-01-27 17:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 929.68 Mbit/s

95th percentile per-packet one-way delay: 10.359 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 563.67 Mbit/s

95th percentile per-packet one-way delay: 10.605 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 389.92 Mbit/s

95th percentile per-packet one-way delay: 9.842 ms

Loss rate: 0.14%

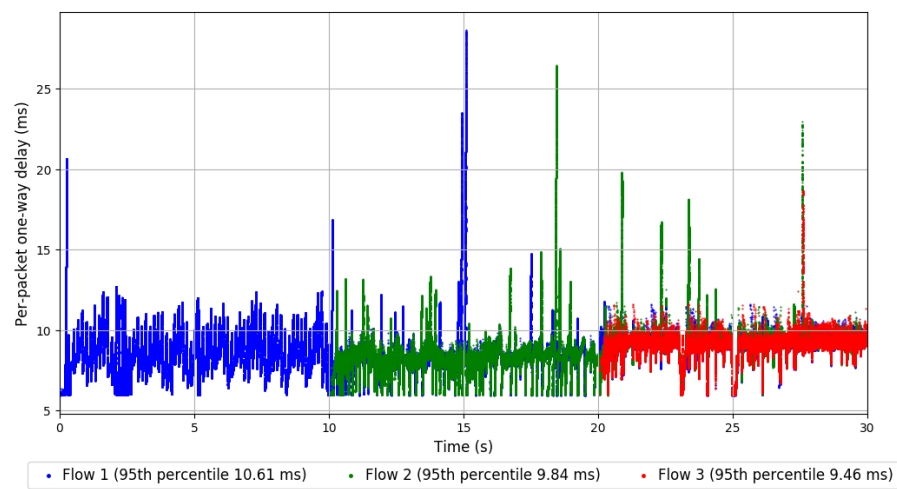
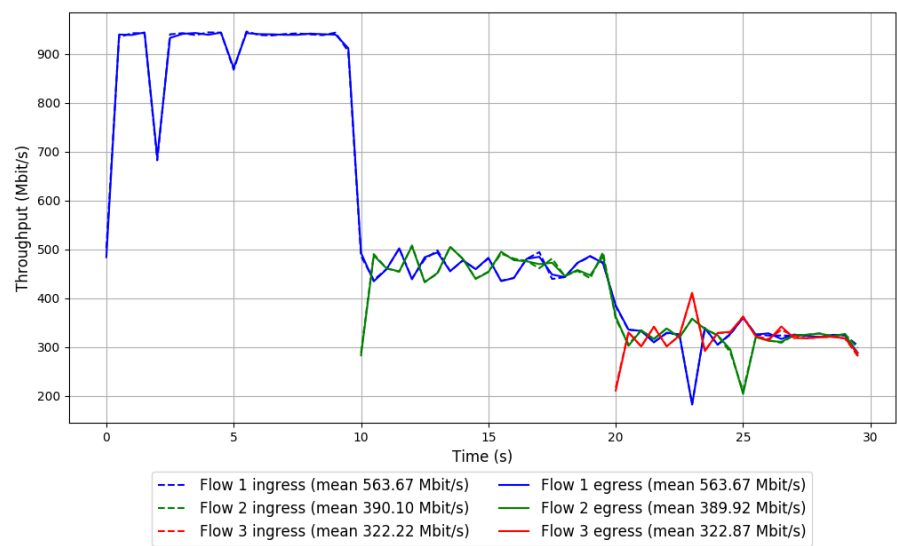
-- Flow 3:

Average throughput: 322.87 Mbit/s

95th percentile per-packet one-way delay: 9.462 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-27 02:08:58

End at: 2018-01-27 02:09:28

Local clock offset: -3.07 ms

Below is generated by plot.py at 2018-01-27 17:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 910.11 Mbit/s

95th percentile per-packet one-way delay: 11.742 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 545.17 Mbit/s

95th percentile per-packet one-way delay: 13.794 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 389.27 Mbit/s

95th percentile per-packet one-way delay: 10.164 ms

Loss rate: 0.10%

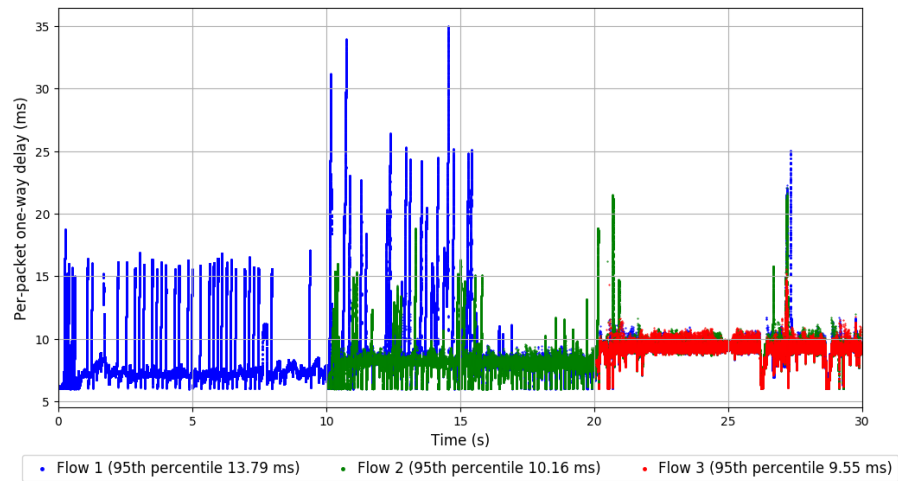
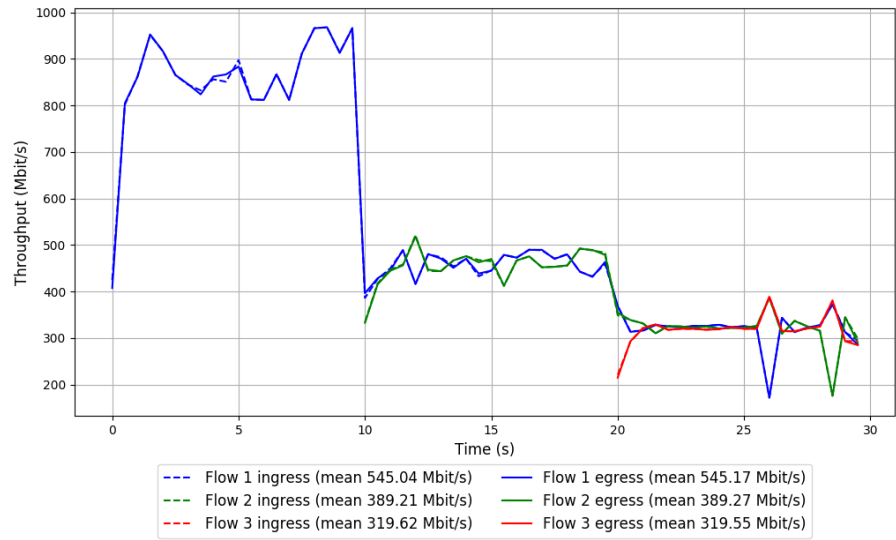
-- Flow 3:

Average throughput: 319.55 Mbit/s

95th percentile per-packet one-way delay: 9.554 ms

Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-27 02:59:57

End at: 2018-01-27 03:00:27

Local clock offset: -2.873 ms

Below is generated by plot.py at 2018-01-27 17:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 901.55 Mbit/s

95th percentile per-packet one-way delay: 11.109 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 537.48 Mbit/s

95th percentile per-packet one-way delay: 12.454 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 387.83 Mbit/s

95th percentile per-packet one-way delay: 9.547 ms

Loss rate: 0.09%

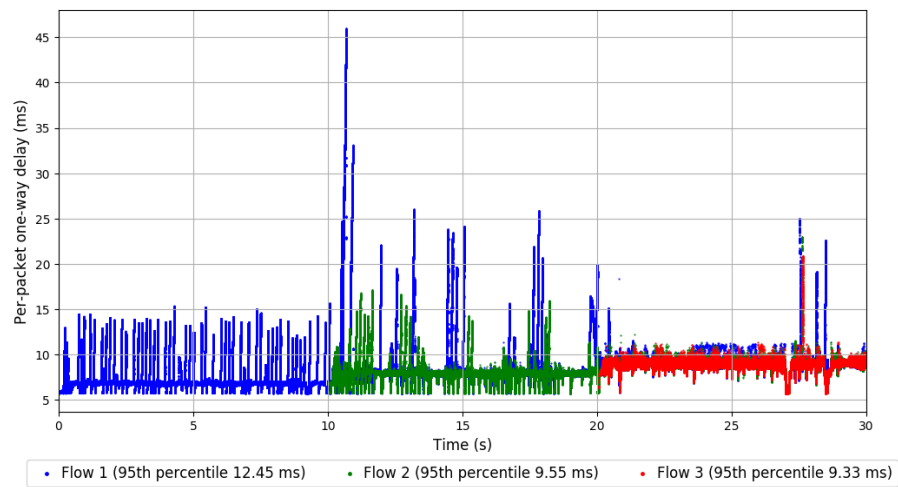
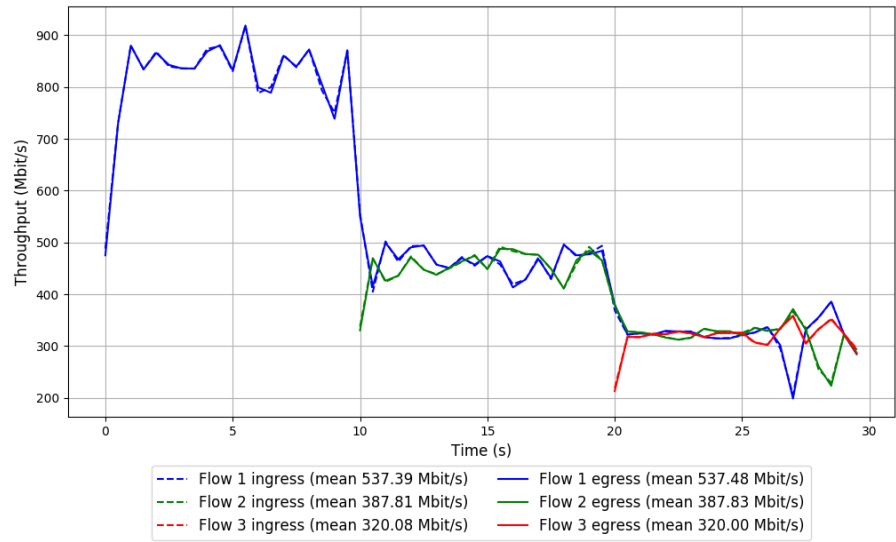
-- Flow 3:

Average throughput: 320.00 Mbit/s

95th percentile per-packet one-way delay: 9.332 ms

Loss rate: 0.22%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-27 03:50:21

End at: 2018-01-27 03:50:51

Local clock offset: -3.257 ms

Below is generated by plot.py at 2018-01-27 17:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.66 Mbit/s

95th percentile per-packet one-way delay: 12.702 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 565.79 Mbit/s

95th percentile per-packet one-way delay: 10.978 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 390.78 Mbit/s

95th percentile per-packet one-way delay: 22.204 ms

Loss rate: 0.10%

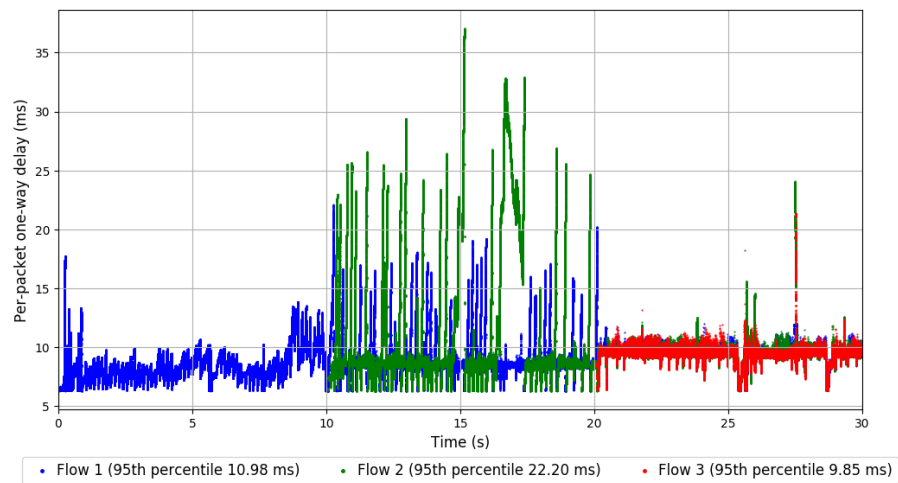
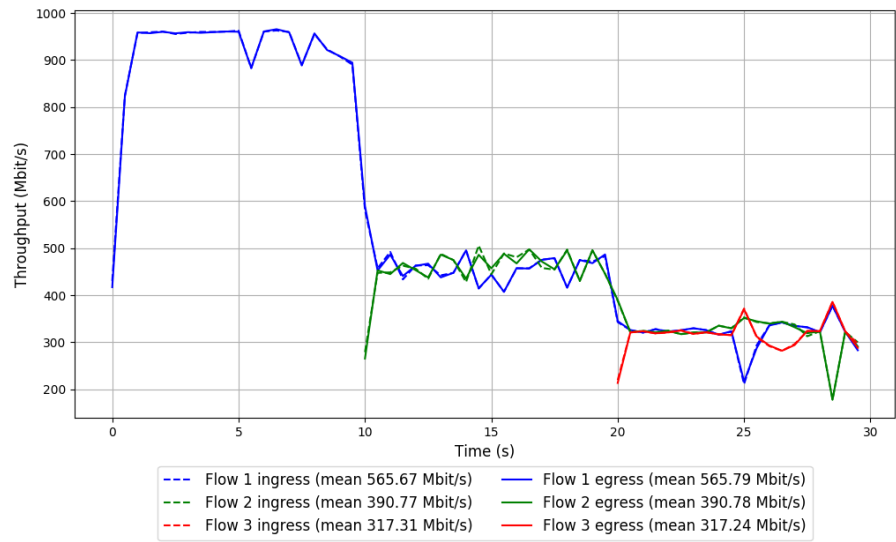
-- Flow 3:

Average throughput: 317.24 Mbit/s

95th percentile per-packet one-way delay: 9.846 ms

Loss rate: 0.24%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-27 04:41:09

End at: 2018-01-27 04:41:39

Local clock offset: -3.386 ms

Below is generated by plot.py at 2018-01-27 17:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.17 Mbit/s

95th percentile per-packet one-way delay: 10.545 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 543.36 Mbit/s

95th percentile per-packet one-way delay: 10.883 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 389.64 Mbit/s

95th percentile per-packet one-way delay: 10.115 ms

Loss rate: 0.13%

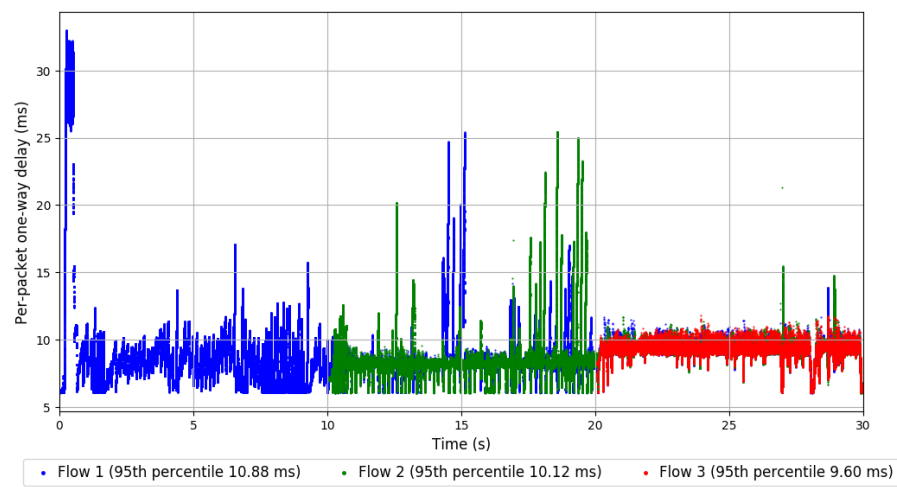
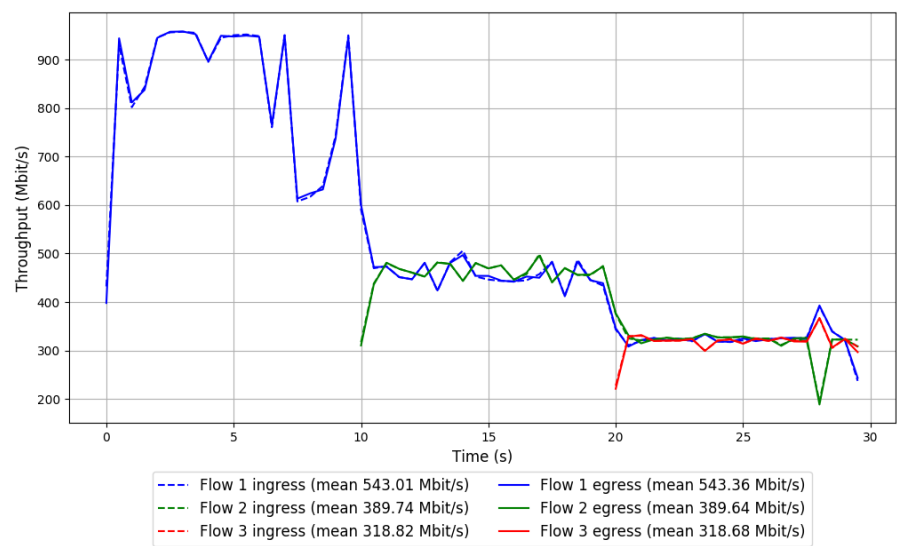
-- Flow 3:

Average throughput: 318.68 Mbit/s

95th percentile per-packet one-way delay: 9.601 ms

Loss rate: 0.27%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-27 05:31:54

End at: 2018-01-27 05:32:24

Local clock offset: -2.071 ms

Below is generated by plot.py at 2018-01-27 17:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.66 Mbit/s

95th percentile per-packet one-way delay: 11.311 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 532.63 Mbit/s

95th percentile per-packet one-way delay: 15.641 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 386.79 Mbit/s

95th percentile per-packet one-way delay: 8.329 ms

Loss rate: 0.10%

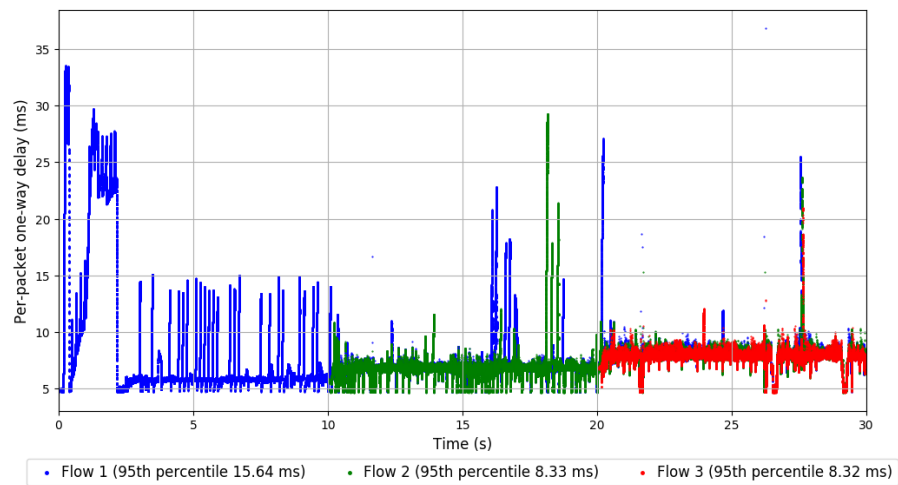
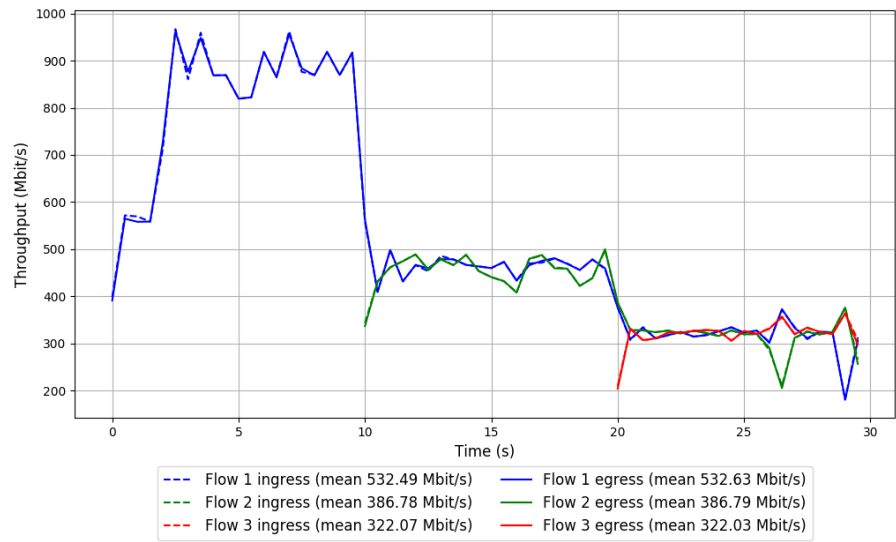
-- Flow 3:

Average throughput: 322.03 Mbit/s

95th percentile per-packet one-way delay: 8.316 ms

Loss rate: 0.25%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-27 06:22:42

End at: 2018-01-27 06:23:12

Local clock offset: -3.851 ms

Below is generated by plot.py at 2018-01-27 17:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 897.49 Mbit/s

95th percentile per-packet one-way delay: 13.417 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 535.93 Mbit/s

95th percentile per-packet one-way delay: 24.214 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 385.45 Mbit/s

95th percentile per-packet one-way delay: 10.199 ms

Loss rate: 0.09%

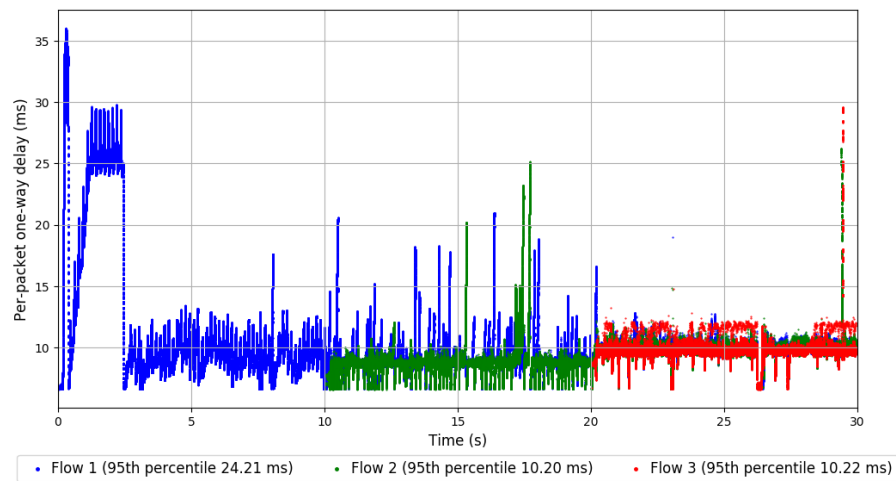
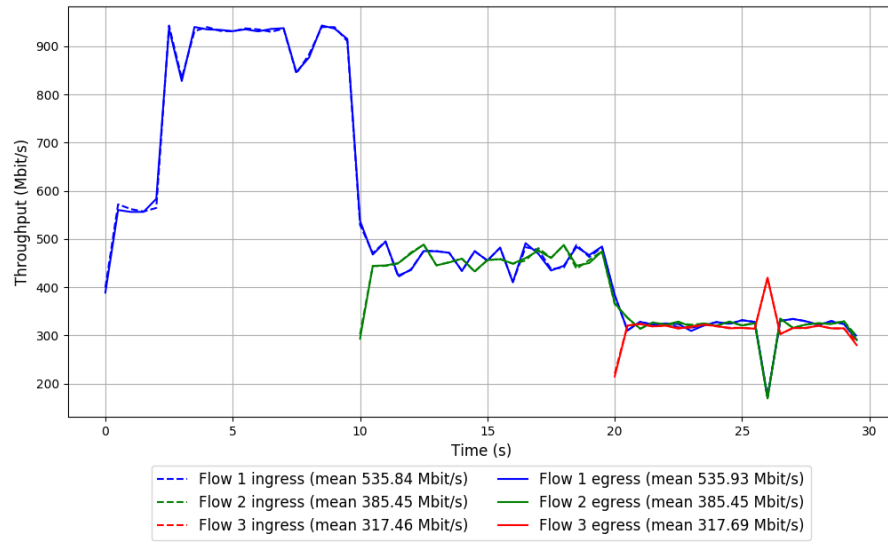
-- Flow 3:

Average throughput: 317.69 Mbit/s

95th percentile per-packet one-way delay: 10.219 ms

Loss rate: 0.21%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-27 07:13:40

End at: 2018-01-27 07:14:10

Local clock offset: 1.658 ms

Below is generated by plot.py at 2018-01-27 17:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 924.40 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 561.83 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 388.33 Mbit/s

95th percentile per-packet one-way delay: 11.723 ms

Loss rate: 0.10%

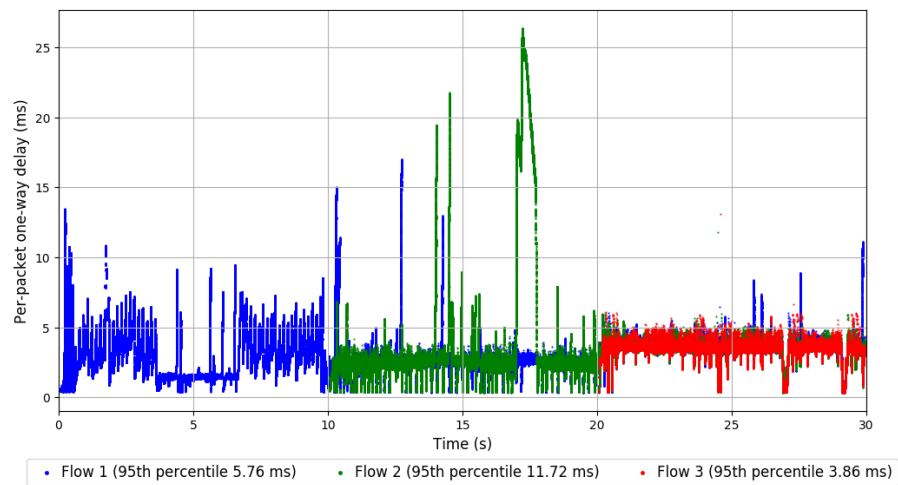
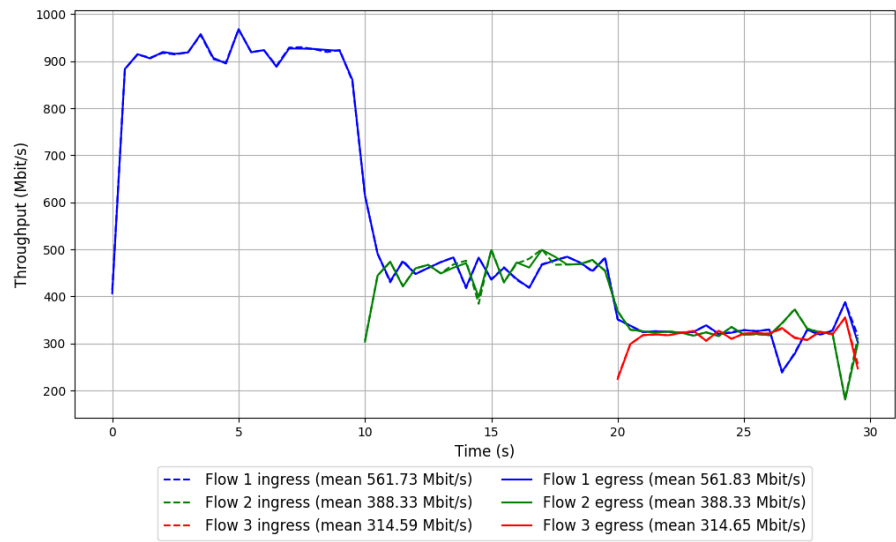
-- Flow 3:

Average throughput: 314.65 Mbit/s

95th percentile per-packet one-way delay: 3.856 ms

Loss rate: 0.19%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-27 08:04:34

End at: 2018-01-27 08:05:04

Local clock offset: -3.43 ms

Below is generated by plot.py at 2018-01-27 17:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 928.60 Mbit/s

95th percentile per-packet one-way delay: 10.395 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 565.60 Mbit/s

95th percentile per-packet one-way delay: 10.678 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 386.16 Mbit/s

95th percentile per-packet one-way delay: 8.561 ms

Loss rate: 0.10%

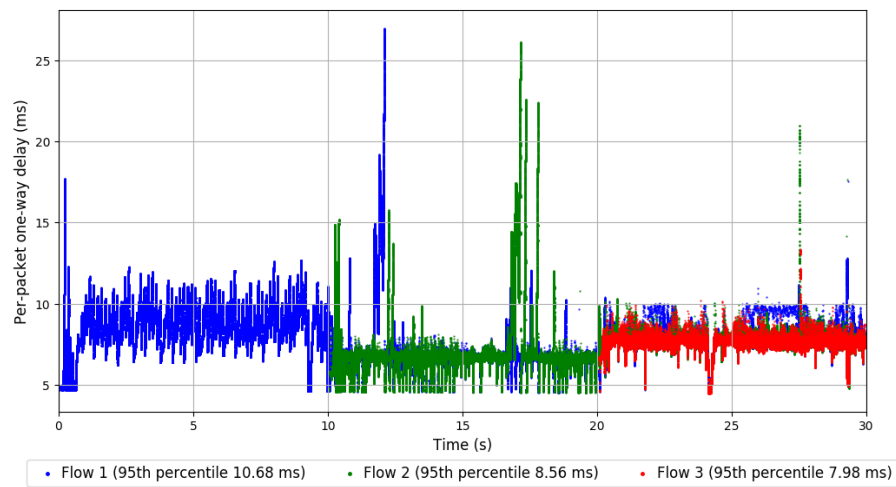
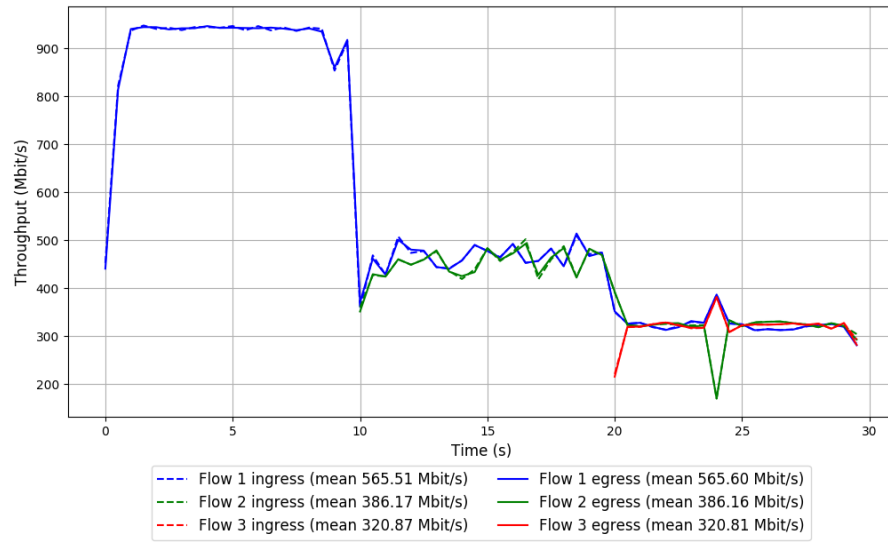
-- Flow 3:

Average throughput: 320.81 Mbit/s

95th percentile per-packet one-way delay: 7.982 ms

Loss rate: 0.25%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-27 00:43:03

End at: 2018-01-27 00:43:33

Local clock offset: -2.869 ms

Below is generated by plot.py at 2018-01-27 17:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 6.119 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 6.117 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 18.71 Mbit/s

95th percentile per-packet one-way delay: 6.119 ms

Loss rate: 0.44%

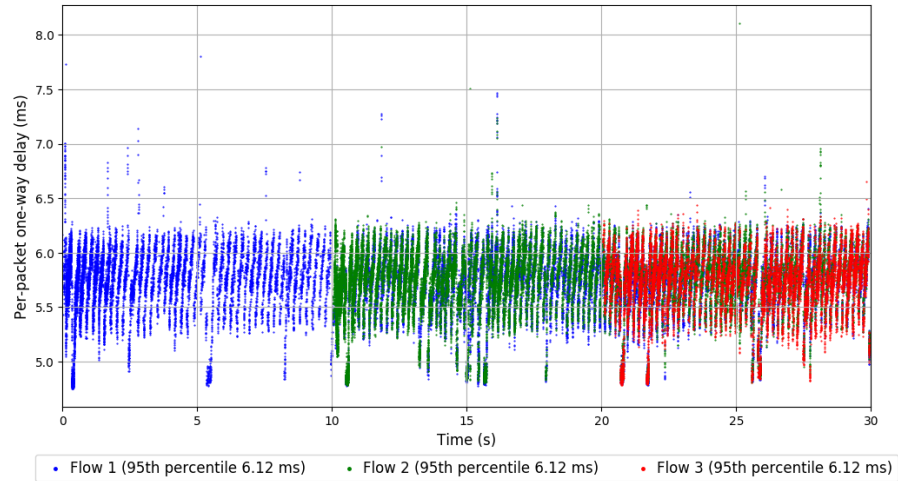
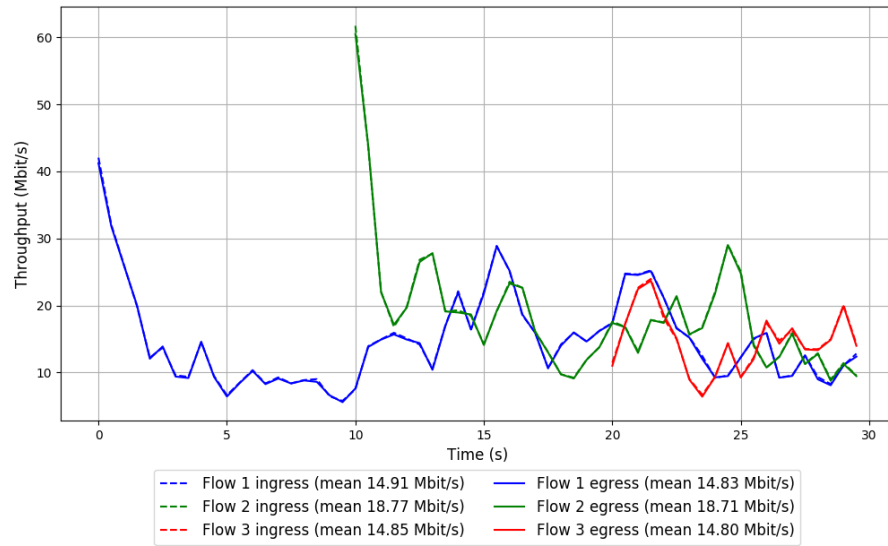
-- Flow 3:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 6.123 ms

Loss rate: 0.51%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-27 01:33:48

End at: 2018-01-27 01:34:18

Local clock offset: -2.892 ms

Below is generated by plot.py at 2018-01-27 17:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 836.29 Mbit/s

95th percentile per-packet one-way delay: 8.738 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 477.47 Mbit/s

95th percentile per-packet one-way delay: 8.698 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 381.94 Mbit/s

95th percentile per-packet one-way delay: 8.757 ms

Loss rate: 0.10%

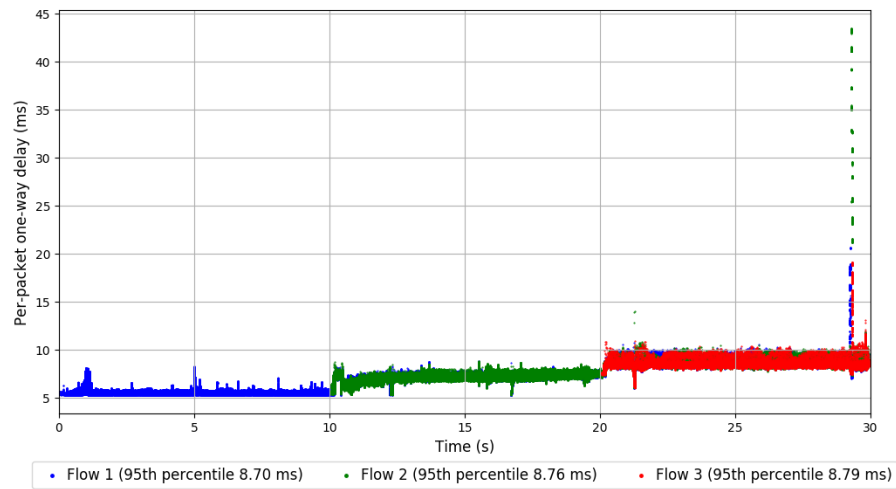
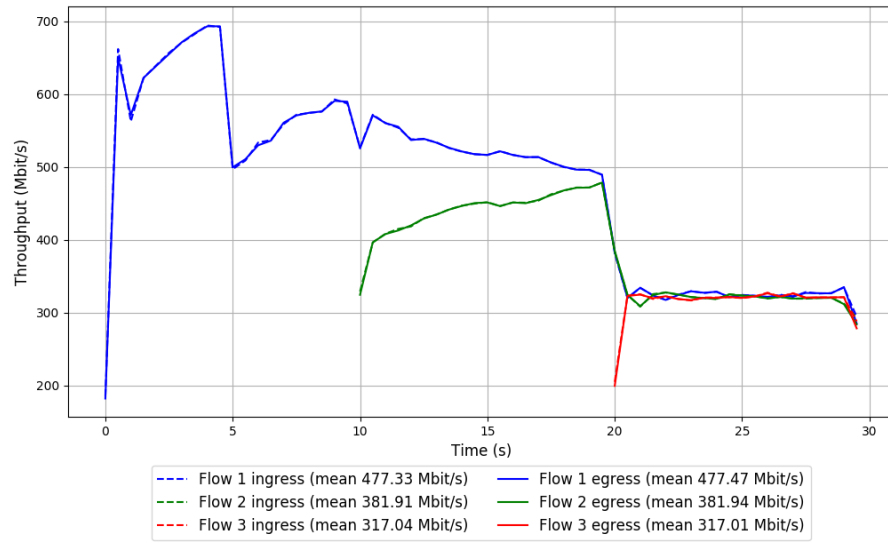
-- Flow 3:

Average throughput: 317.01 Mbit/s

95th percentile per-packet one-way delay: 8.793 ms

Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-27 02:24:41

End at: 2018-01-27 02:25:11

Local clock offset: -3.178 ms

Below is generated by plot.py at 2018-01-27 17:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 893.26 Mbit/s

95th percentile per-packet one-way delay: 12.071 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 517.55 Mbit/s

95th percentile per-packet one-way delay: 12.261 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 411.87 Mbit/s

95th percentile per-packet one-way delay: 9.610 ms

Loss rate: 0.10%

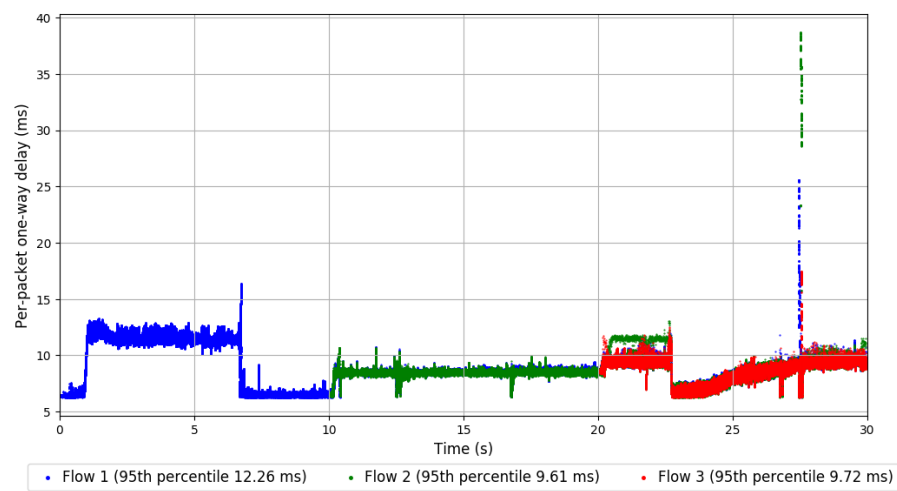
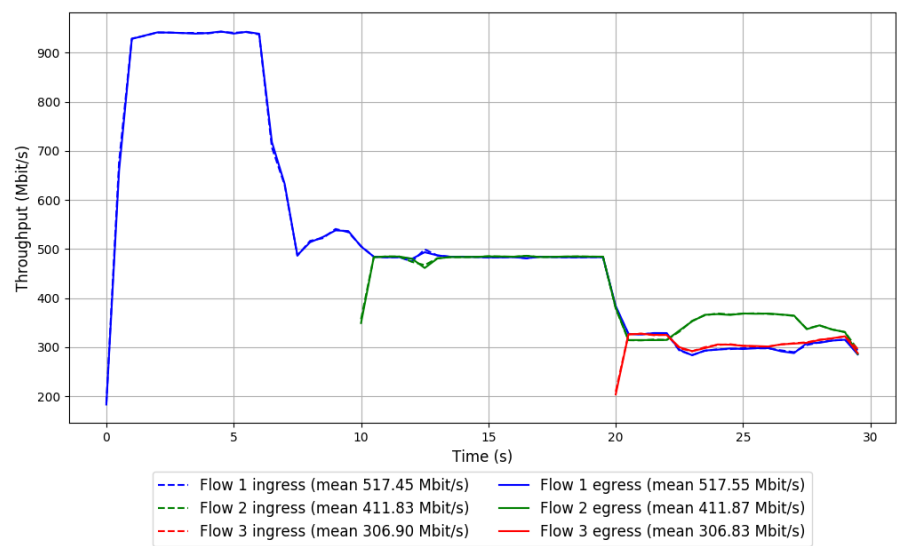
-- Flow 3:

Average throughput: 306.83 Mbit/s

95th percentile per-packet one-way delay: 9.721 ms

Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-27 03:15:14

End at: 2018-01-27 03:15:44

Local clock offset: -2.01 ms

Below is generated by plot.py at 2018-01-27 17:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 829.57 Mbit/s

95th percentile per-packet one-way delay: 8.575 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 468.83 Mbit/s

95th percentile per-packet one-way delay: 8.977 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 384.97 Mbit/s

95th percentile per-packet one-way delay: 8.439 ms

Loss rate: 0.10%

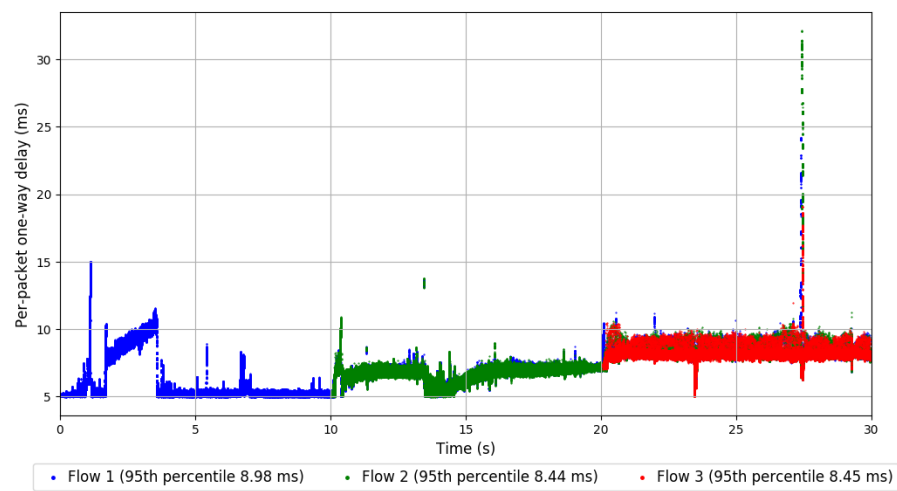
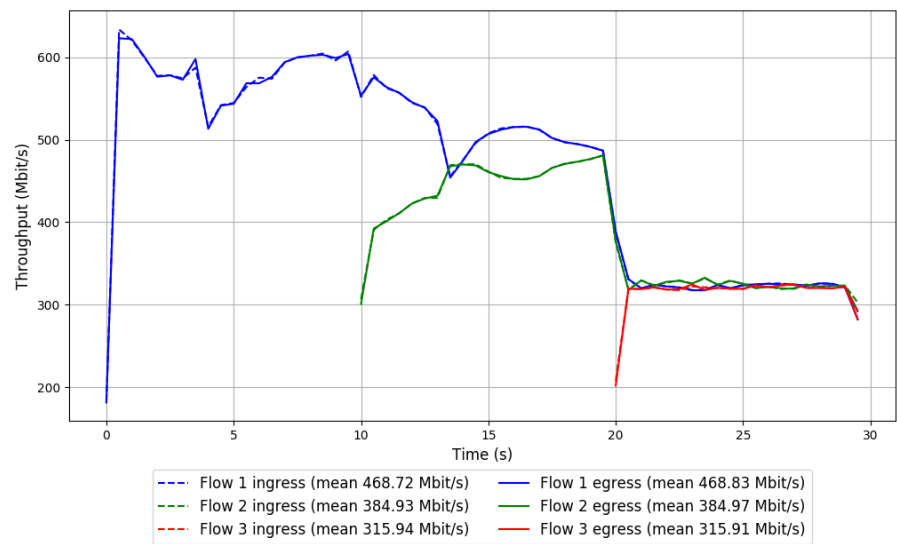
-- Flow 3:

Average throughput: 315.91 Mbit/s

95th percentile per-packet one-way delay: 8.447 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-27 04:06:00

End at: 2018-01-27 04:06:30

Local clock offset: -3.697 ms

Below is generated by plot.py at 2018-01-27 17:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 912.65 Mbit/s

95th percentile per-packet one-way delay: 11.753 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 541.35 Mbit/s

95th percentile per-packet one-way delay: 11.862 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 399.95 Mbit/s

95th percentile per-packet one-way delay: 9.790 ms

Loss rate: 0.09%

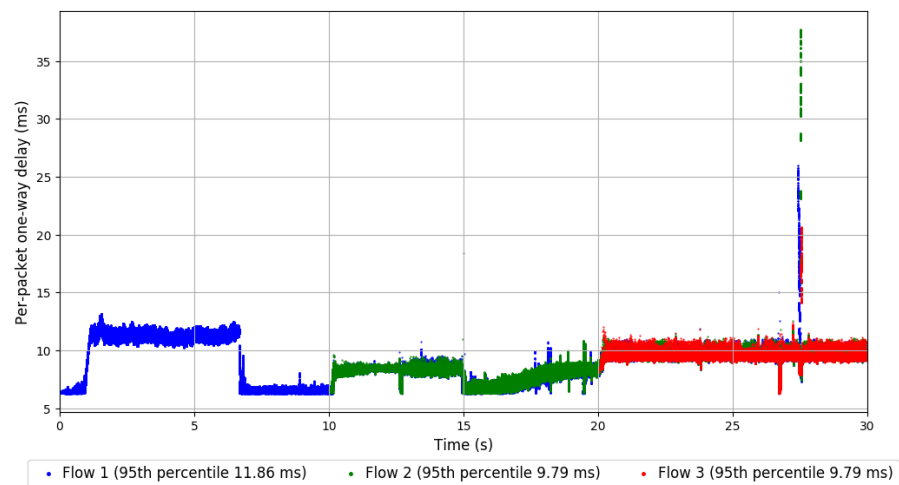
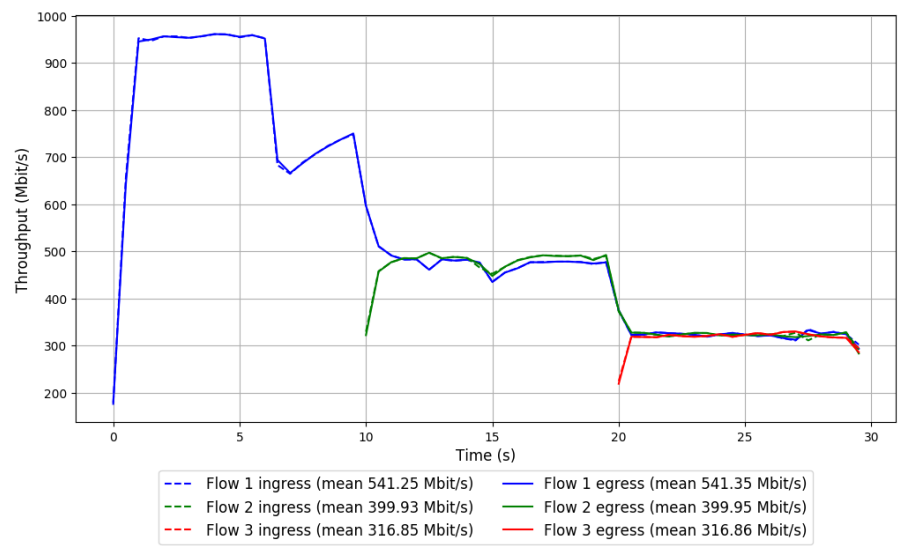
-- Flow 3:

Average throughput: 316.86 Mbit/s

95th percentile per-packet one-way delay: 9.785 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-27 04:56:47

End at: 2018-01-27 04:57:17

Local clock offset: -3.138 ms

Below is generated by plot.py at 2018-01-27 17:37:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 919.54 Mbit/s

95th percentile per-packet one-way delay: 17.850 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 554.96 Mbit/s

95th percentile per-packet one-way delay: 18.394 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 389.97 Mbit/s

95th percentile per-packet one-way delay: 9.445 ms

Loss rate: 0.09%

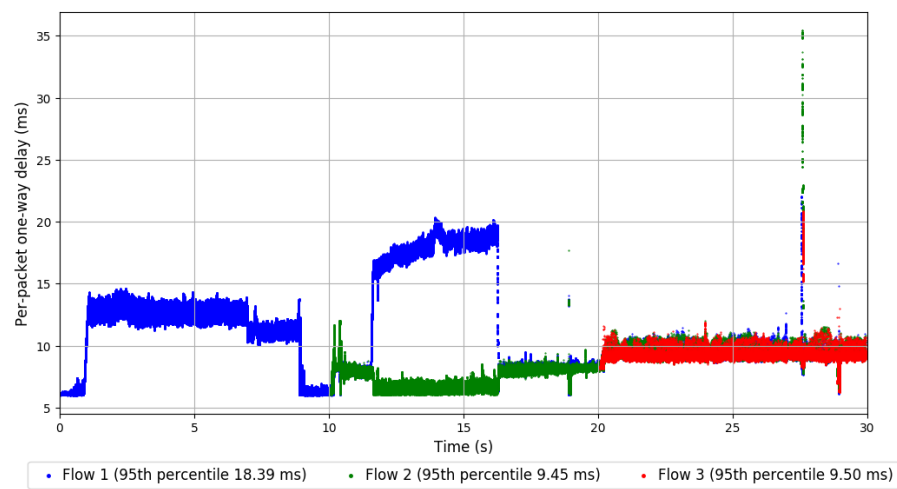
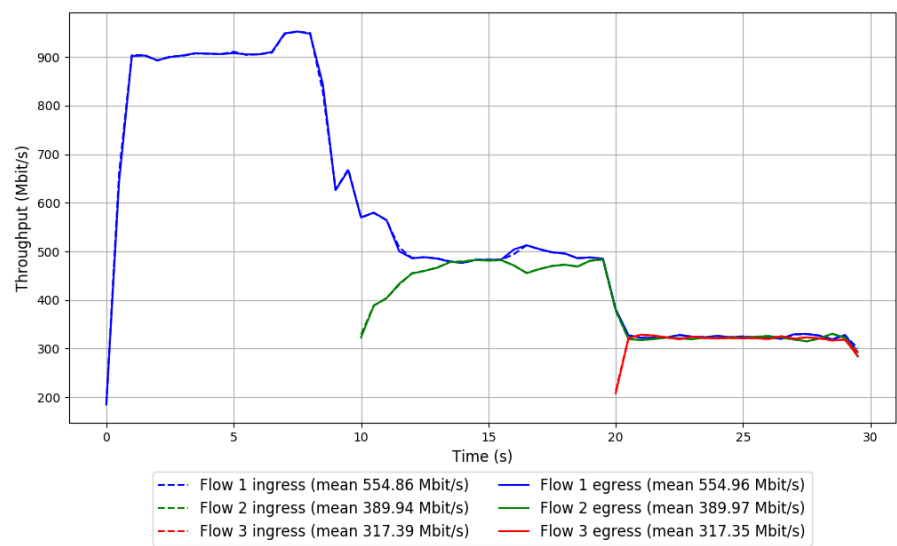
-- Flow 3:

Average throughput: 317.35 Mbit/s

95th percentile per-packet one-way delay: 9.496 ms

Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-27 05:47:27

End at: 2018-01-27 05:47:57

Local clock offset: -1.764 ms

Below is generated by plot.py at 2018-01-27 17:37:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 860.52 Mbit/s

95th percentile per-packet one-way delay: 8.174 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 490.22 Mbit/s

95th percentile per-packet one-way delay: 8.121 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 400.47 Mbit/s

95th percentile per-packet one-way delay: 8.202 ms

Loss rate: 0.10%

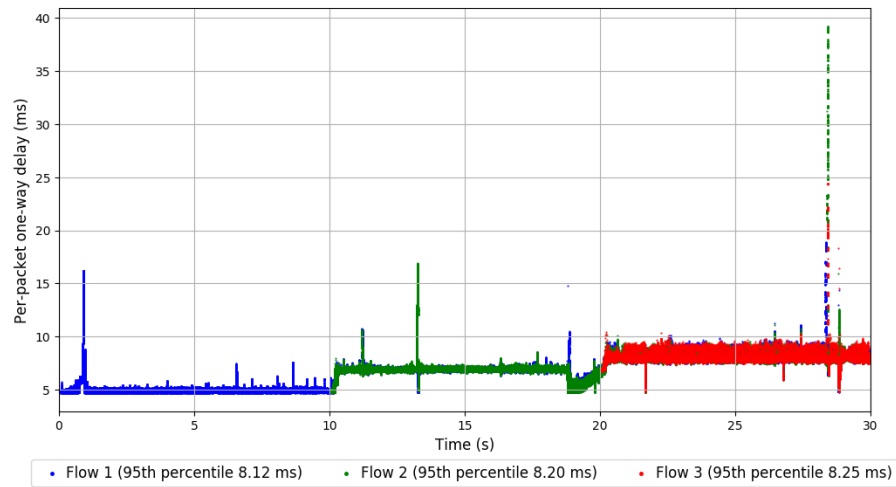
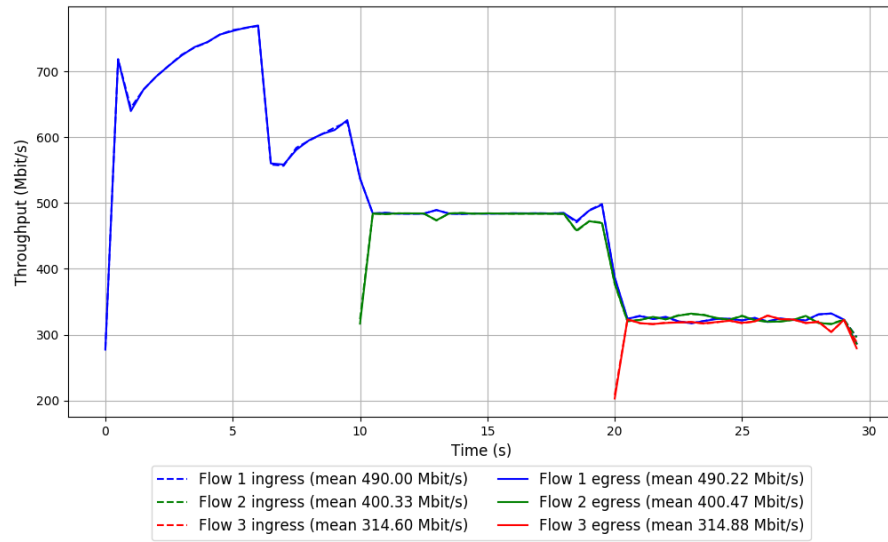
-- Flow 3:

Average throughput: 314.88 Mbit/s

95th percentile per-packet one-way delay: 8.248 ms

Loss rate: 0.23%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-27 06:38:25

End at: 2018-01-27 06:38:55

Local clock offset: -4.291 ms

Below is generated by plot.py at 2018-01-27 17:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.73 Mbit/s

95th percentile per-packet one-way delay: 12.556 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 511.36 Mbit/s

95th percentile per-packet one-way delay: 12.788 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 400.87 Mbit/s

95th percentile per-packet one-way delay: 10.318 ms

Loss rate: 0.14%

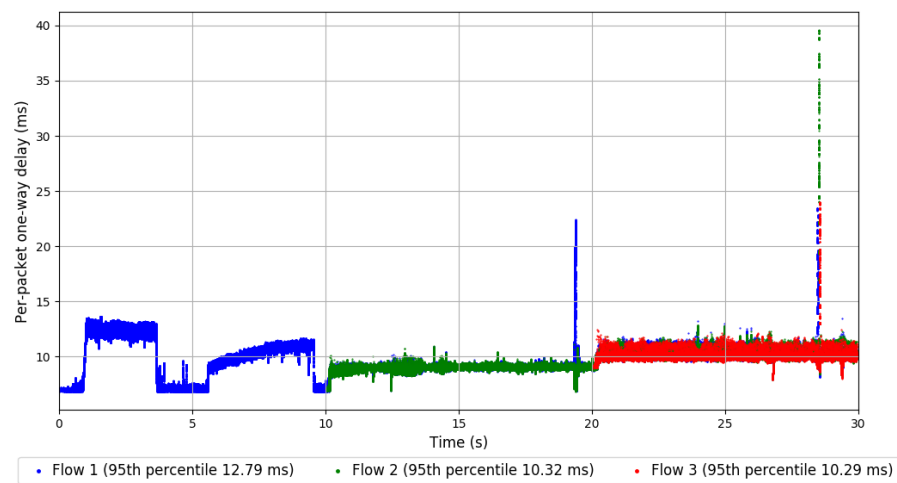
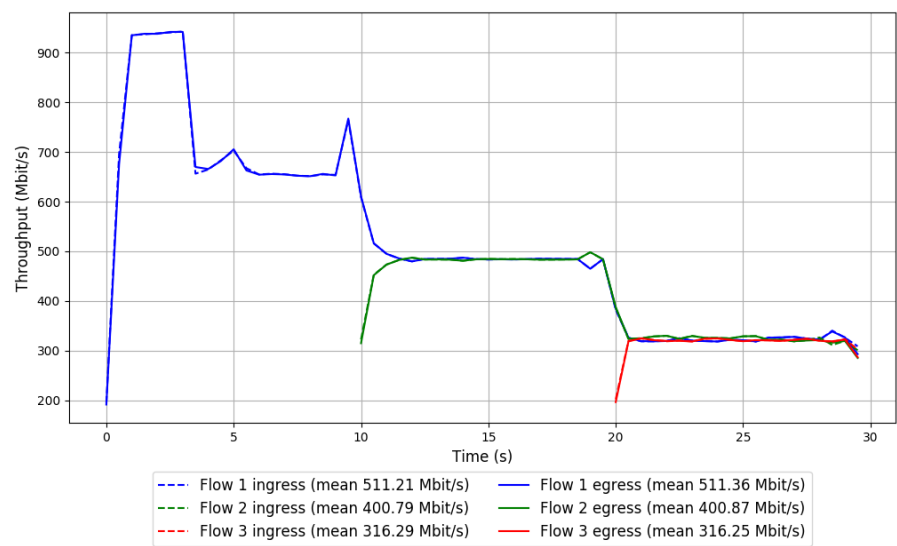
-- Flow 3:

Average throughput: 316.25 Mbit/s

95th percentile per-packet one-way delay: 10.291 ms

Loss rate: 0.35%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-27 07:29:21

End at: 2018-01-27 07:29:51

Local clock offset: 3.674 ms

Below is generated by plot.py at 2018-01-27 17:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 806.58 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 437.39 Mbit/s

95th percentile per-packet one-way delay: 3.247 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 399.73 Mbit/s

95th percentile per-packet one-way delay: 3.282 ms

Loss rate: 0.09%

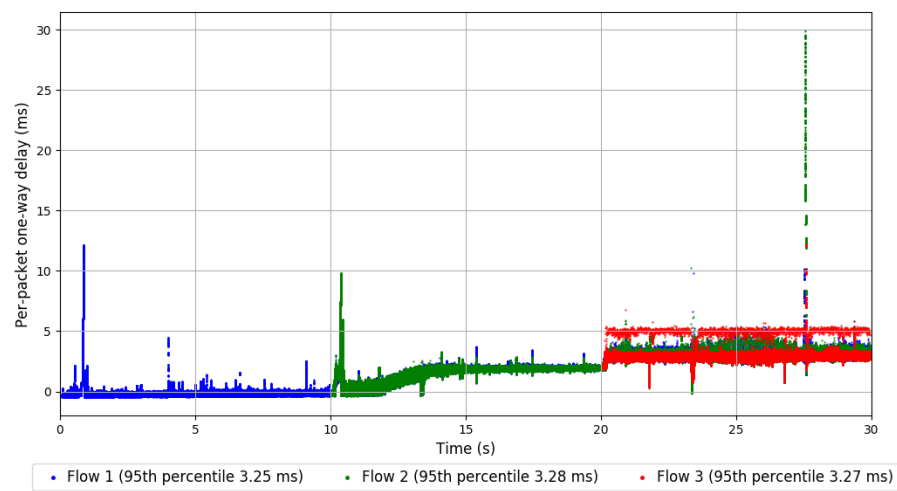
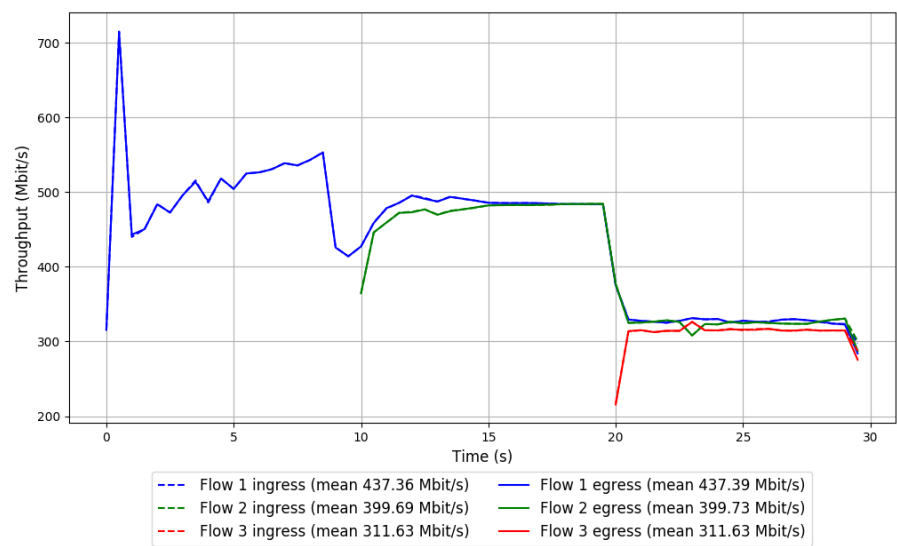
-- Flow 3:

Average throughput: 311.63 Mbit/s

95th percentile per-packet one-way delay: 3.265 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-27 08:20:13

End at: 2018-01-27 08:20:43

Local clock offset: 1.291 ms

Below is generated by plot.py at 2018-01-27 17:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 853.26 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 480.23 Mbit/s

95th percentile per-packet one-way delay: 7.234 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 400.93 Mbit/s

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

Loss rate: 0.09%

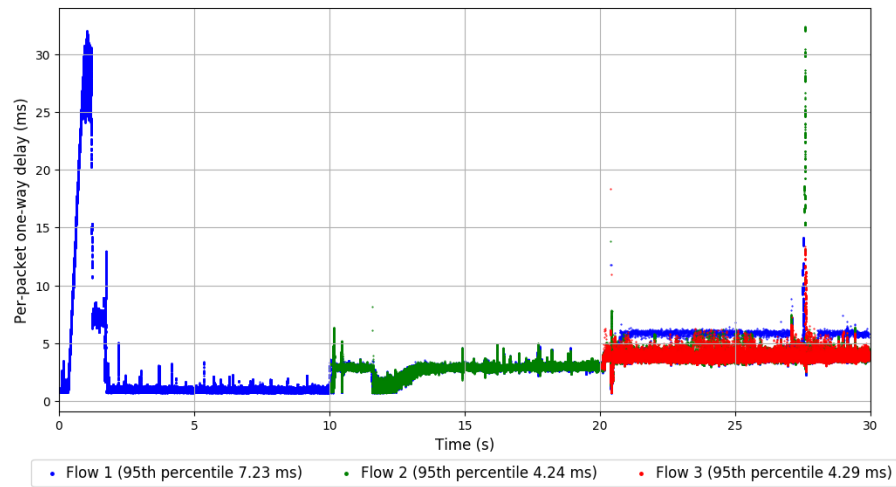
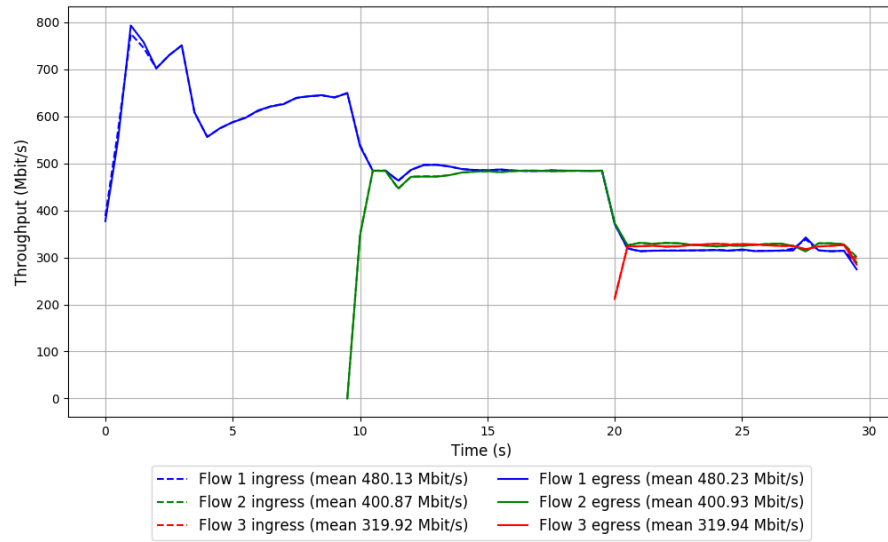
-- Flow 3:

Average throughput: 319.94 Mbit/s

95th percentile per-packet one-way delay: 4.291 ms

Loss rate: 0.24%

Run 10: Report of TCP Cubic — Data Link

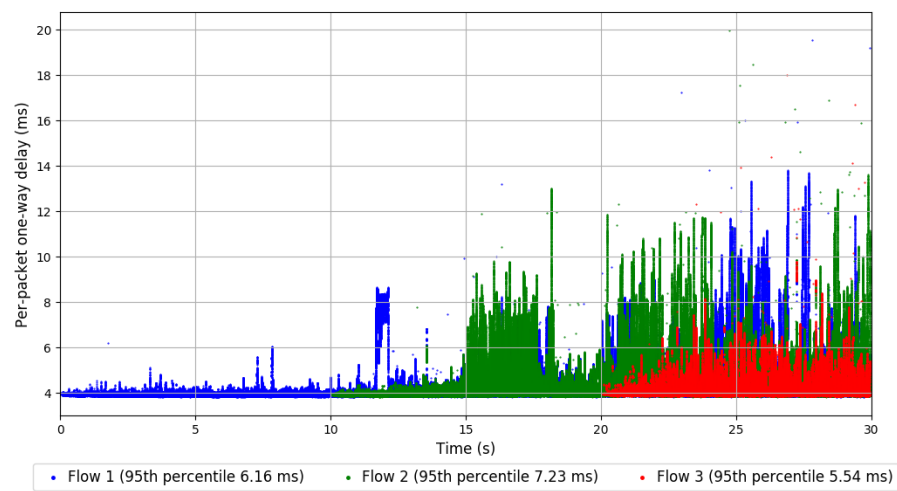
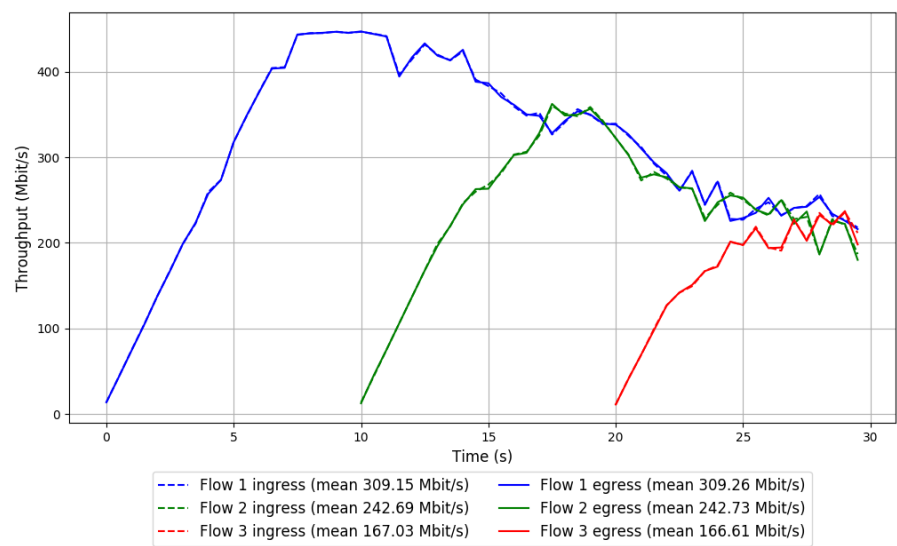


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-27 00:17:46
End at: 2018-01-27 00:18:16
Local clock offset: -2.58 ms

# Below is generated by plot.py at 2018-01-27 17:48:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 525.82 Mbit/s
95th percentile per-packet one-way delay: 6.579 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 309.26 Mbit/s
95th percentile per-packet one-way delay: 6.161 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 242.73 Mbit/s
95th percentile per-packet one-way delay: 7.231 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 166.61 Mbit/s
95th percentile per-packet one-way delay: 5.541 ms
Loss rate: 0.44%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-27 01:08:30

End at: 2018-01-27 01:09:00

Local clock offset: -4.214 ms

Below is generated by plot.py at 2018-01-27 17:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 531.58 Mbit/s

95th percentile per-packet one-way delay: 8.008 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 317.29 Mbit/s

95th percentile per-packet one-way delay: 8.044 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 234.19 Mbit/s

95th percentile per-packet one-way delay: 7.753 ms

Loss rate: 0.06%

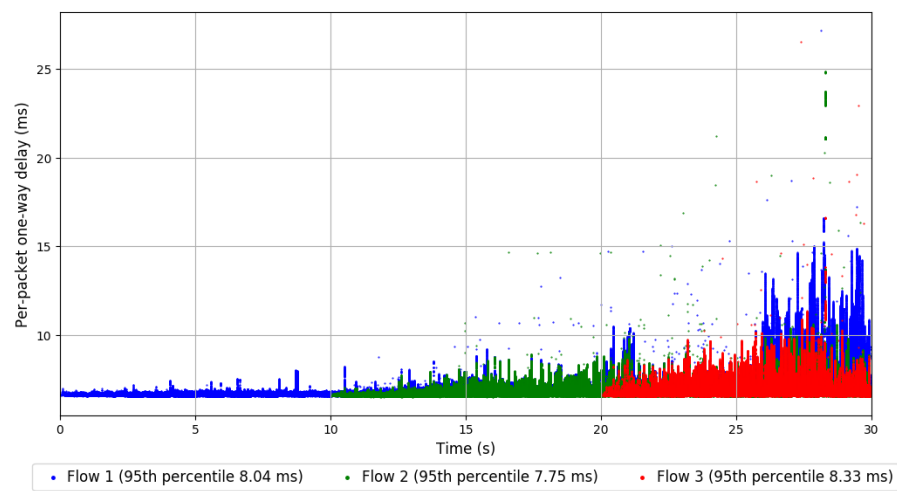
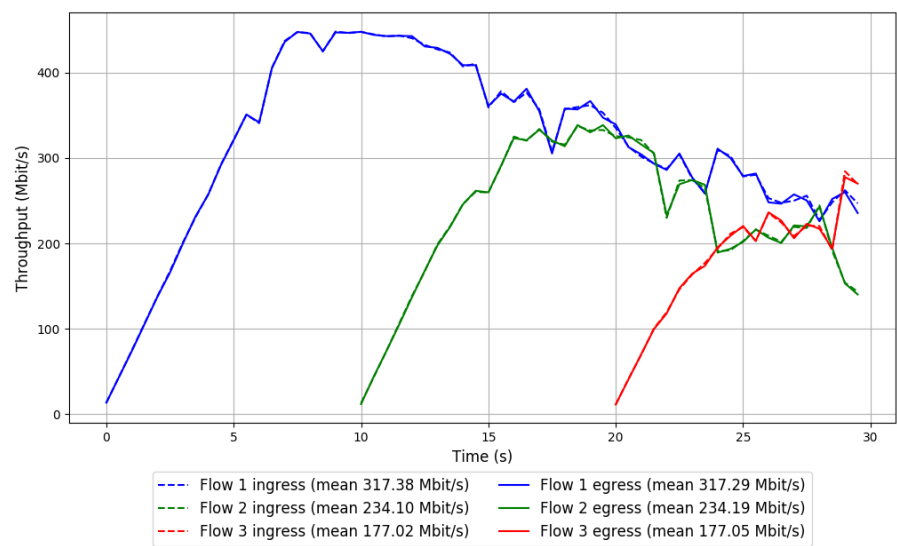
-- Flow 3:

Average throughput: 177.05 Mbit/s

95th percentile per-packet one-way delay: 8.331 ms

Loss rate: 0.23%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-27 01:59:21

End at: 2018-01-27 01:59:51

Local clock offset: -2.951 ms

Below is generated by plot.py at 2018-01-27 17:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.33 Mbit/s

95th percentile per-packet one-way delay: 9.117 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 306.70 Mbit/s

95th percentile per-packet one-way delay: 9.000 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 254.56 Mbit/s

95th percentile per-packet one-way delay: 10.184 ms

Loss rate: 0.06%

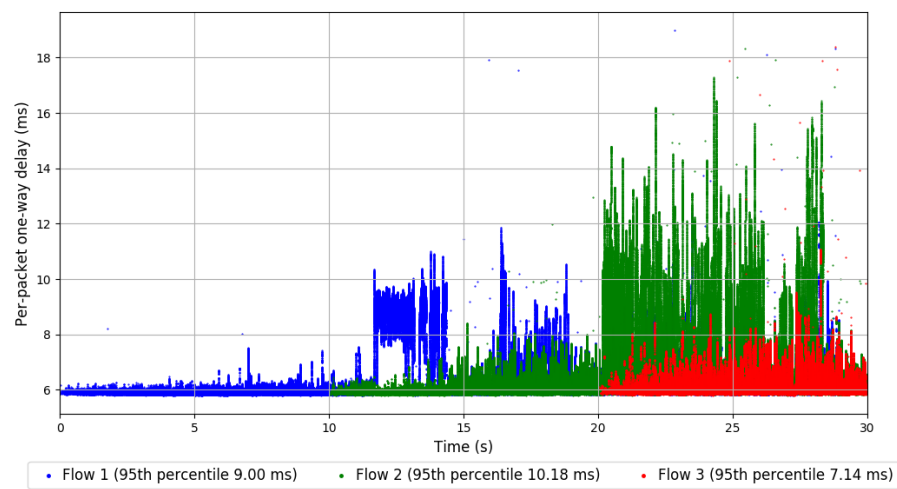
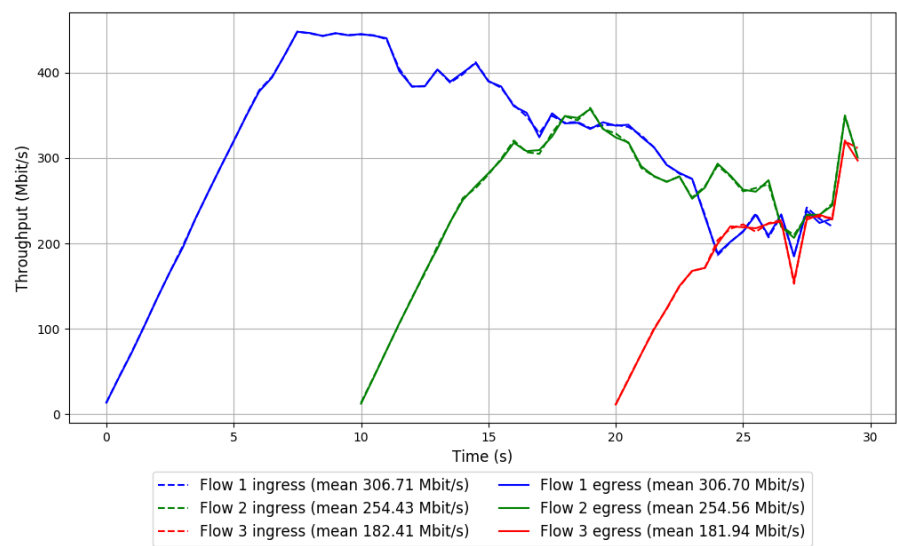
-- Flow 3:

Average throughput: 181.94 Mbit/s

95th percentile per-packet one-way delay: 7.141 ms

Loss rate: 0.46%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-27 02:50:21

End at: 2018-01-27 02:50:51

Local clock offset: -3.238 ms

Below is generated by plot.py at 2018-01-27 17:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.19 Mbit/s

95th percentile per-packet one-way delay: 8.482 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 274.52 Mbit/s

95th percentile per-packet one-way delay: 8.333 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 275.65 Mbit/s

95th percentile per-packet one-way delay: 8.989 ms

Loss rate: 0.09%

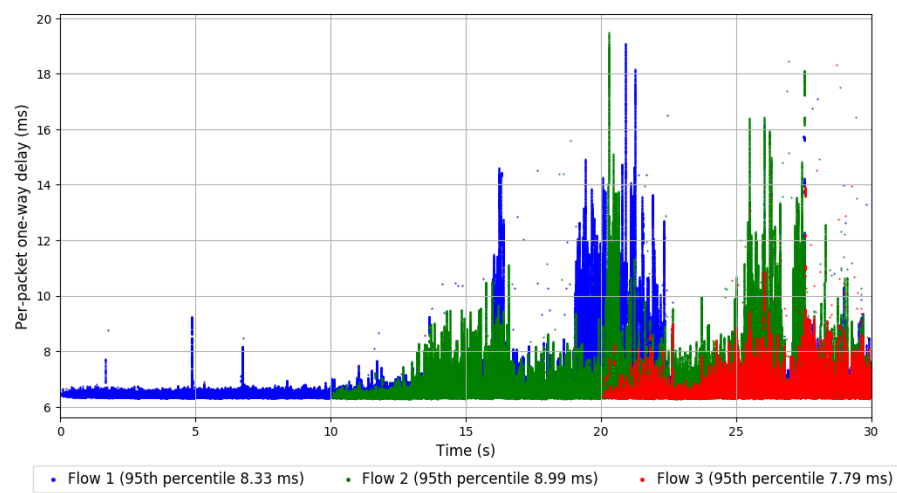
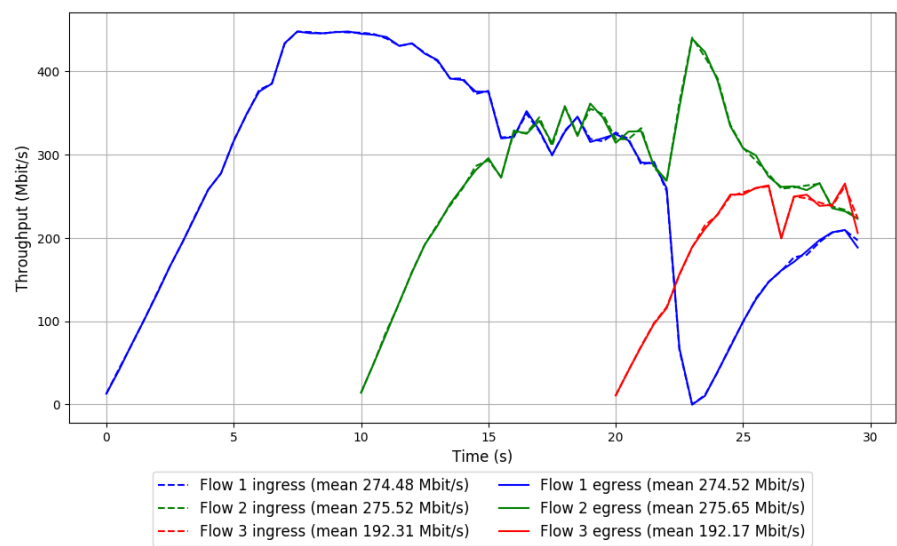
-- Flow 3:

Average throughput: 192.17 Mbit/s

95th percentile per-packet one-way delay: 7.789 ms

Loss rate: 0.47%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-27 03:40:47

End at: 2018-01-27 03:41:17

Local clock offset: -2.739 ms

Below is generated by plot.py at 2018-01-27 17:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 535.63 Mbit/s

95th percentile per-packet one-way delay: 8.368 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 299.94 Mbit/s

95th percentile per-packet one-way delay: 7.309 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 254.10 Mbit/s

95th percentile per-packet one-way delay: 9.680 ms

Loss rate: 0.14%

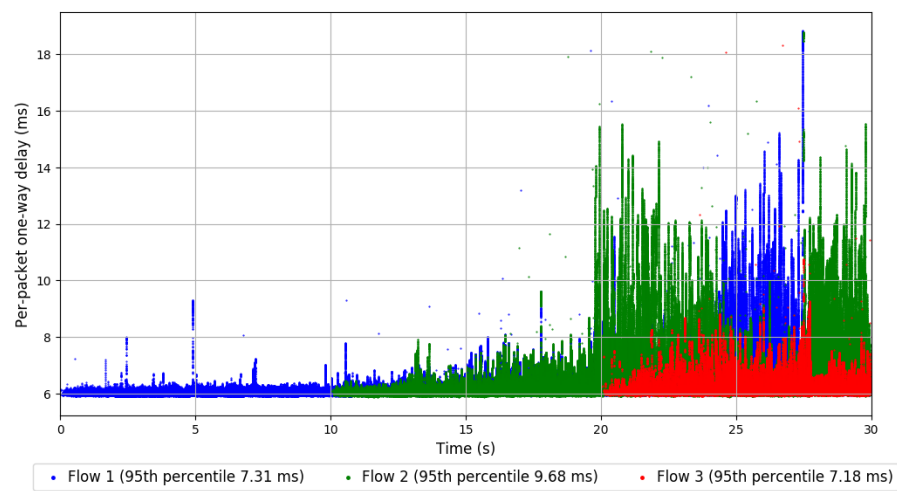
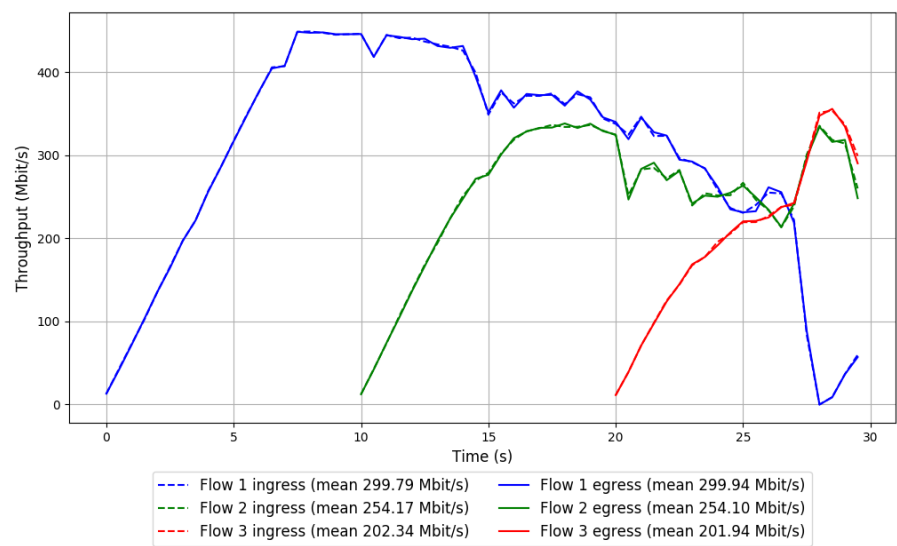
-- Flow 3:

Average throughput: 201.94 Mbit/s

95th percentile per-packet one-way delay: 7.182 ms

Loss rate: 0.40%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-27 04:31:33

End at: 2018-01-27 04:32:03

Local clock offset: -3.37 ms

Below is generated by plot.py at 2018-01-27 17:51:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 538.35 Mbit/s

95th percentile per-packet one-way delay: 10.291 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 317.46 Mbit/s

95th percentile per-packet one-way delay: 10.764 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 238.28 Mbit/s

95th percentile per-packet one-way delay: 7.722 ms

Loss rate: 0.05%

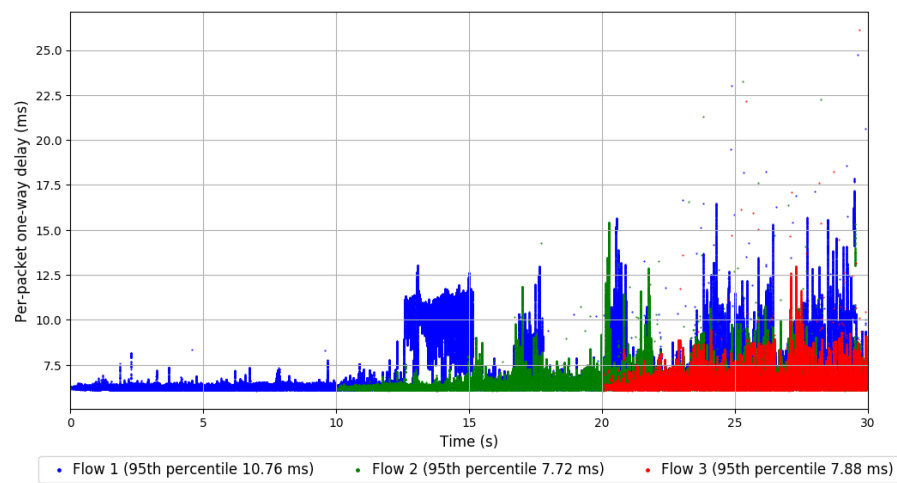
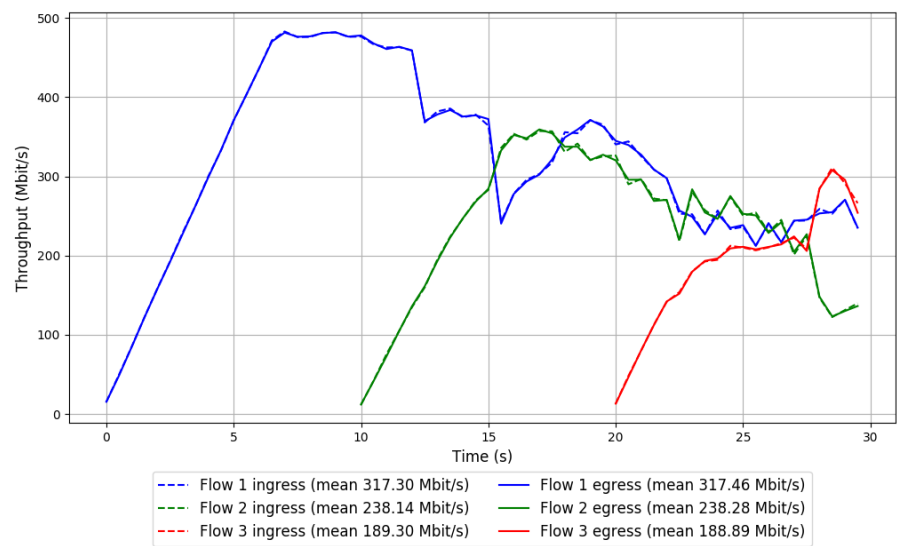
-- Flow 3:

Average throughput: 188.89 Mbit/s

95th percentile per-packet one-way delay: 7.881 ms

Loss rate: 0.40%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-27 05:22:19

End at: 2018-01-27 05:22:49

Local clock offset: -2.456 ms

Below is generated by plot.py at 2018-01-27 17:52:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.73 Mbit/s

95th percentile per-packet one-way delay: 6.843 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 311.38 Mbit/s

95th percentile per-packet one-way delay: 7.155 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 230.39 Mbit/s

95th percentile per-packet one-way delay: 6.663 ms

Loss rate: 0.08%

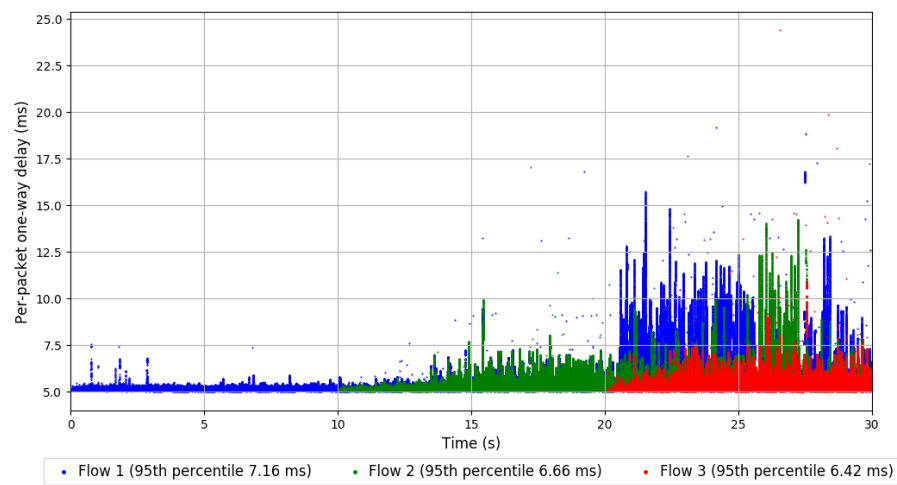
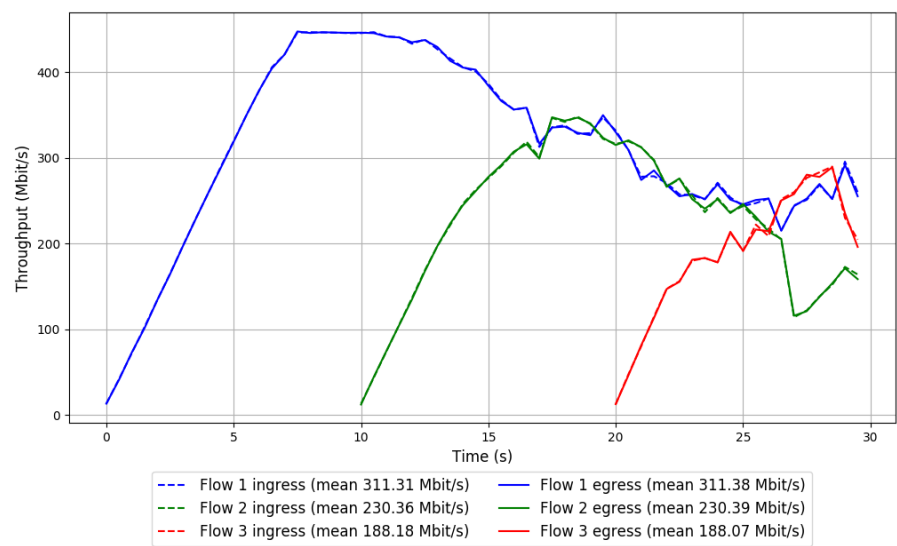
-- Flow 3:

Average throughput: 188.07 Mbit/s

95th percentile per-packet one-way delay: 6.421 ms

Loss rate: 0.25%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-27 06:13:05

End at: 2018-01-27 06:13:35

Local clock offset: -3.716 ms

Below is generated by plot.py at 2018-01-27 17:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 545.55 Mbit/s

95th percentile per-packet one-way delay: 8.092 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 323.67 Mbit/s

95th percentile per-packet one-way delay: 8.376 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 247.33 Mbit/s

95th percentile per-packet one-way delay: 7.877 ms

Loss rate: 0.13%

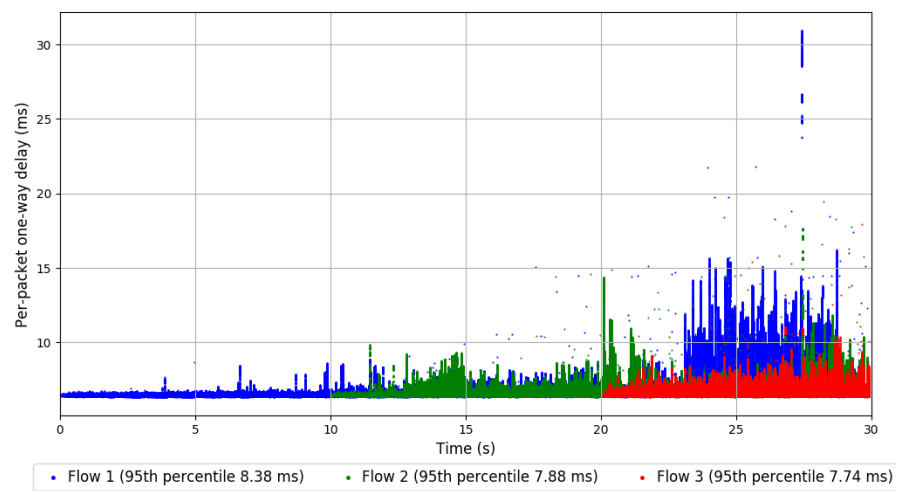
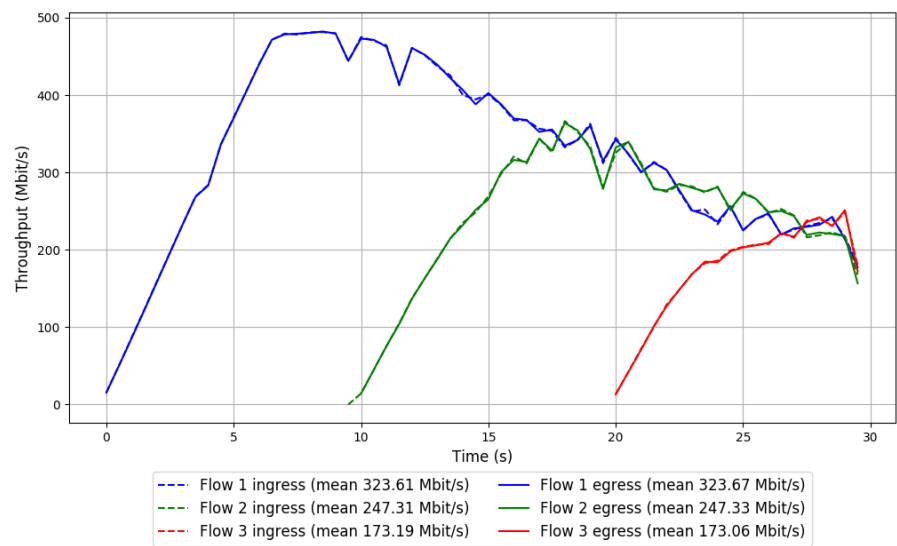
-- Flow 3:

Average throughput: 173.06 Mbit/s

95th percentile per-packet one-way delay: 7.737 ms

Loss rate: 0.27%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-27 07:04:03

End at: 2018-01-27 07:04:33

Local clock offset: -0.648 ms

Below is generated by plot.py at 2018-01-27 17:52:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 543.15 Mbit/s

95th percentile per-packet one-way delay: 5.212 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 325.85 Mbit/s

95th percentile per-packet one-way delay: 4.450 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 232.17 Mbit/s

95th percentile per-packet one-way delay: 6.665 ms

Loss rate: 0.03%

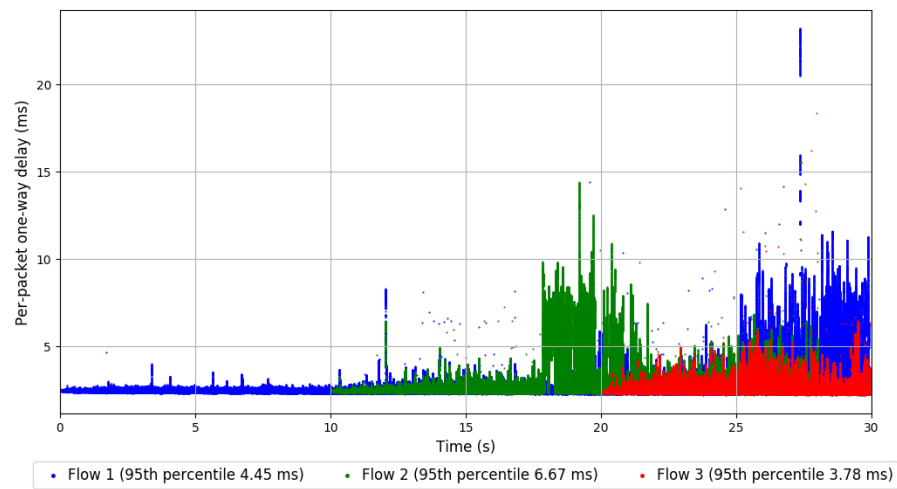
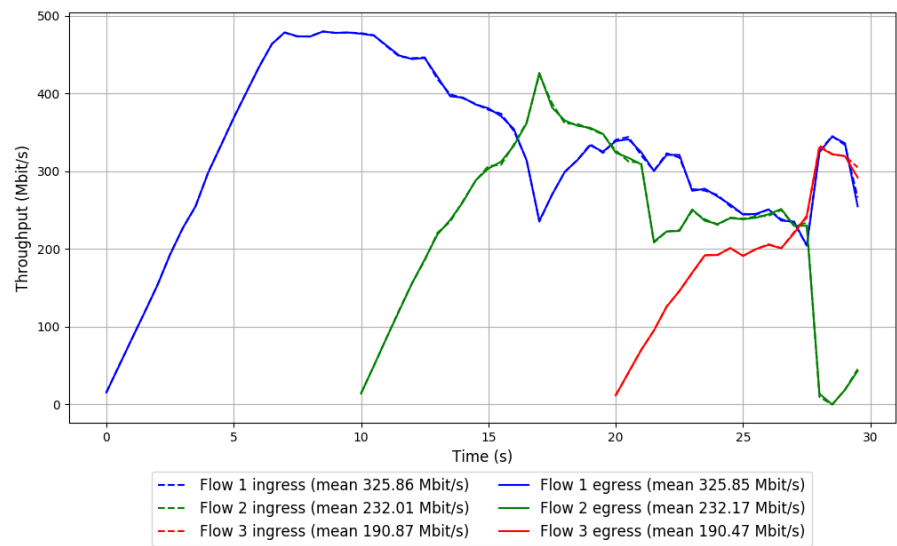
-- Flow 3:

Average throughput: 190.47 Mbit/s

95th percentile per-packet one-way delay: 3.777 ms

Loss rate: 0.41%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-27 07:54:58

End at: 2018-01-27 07:55:28

Local clock offset: -3.002 ms

Below is generated by plot.py at 2018-01-27 17:52:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 531.07 Mbit/s

95th percentile per-packet one-way delay: 8.683 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 304.74 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 249.36 Mbit/s

95th percentile per-packet one-way delay: 7.111 ms

Loss rate: 0.13%

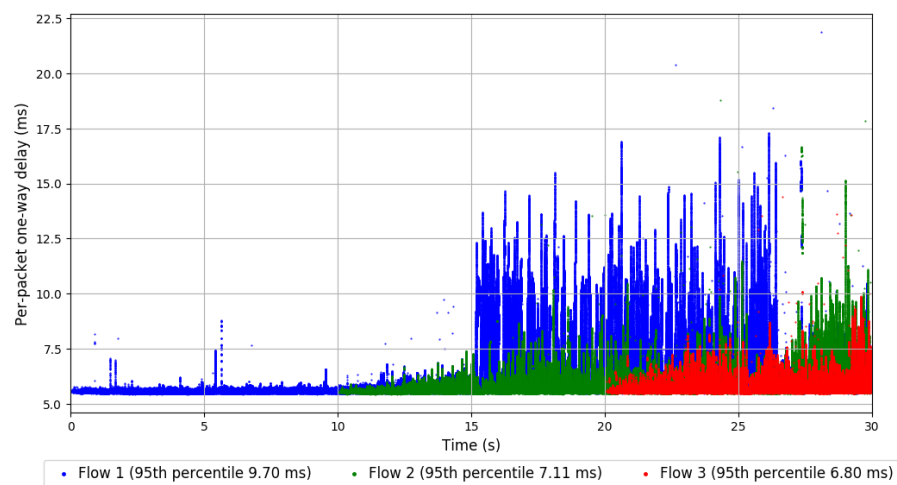
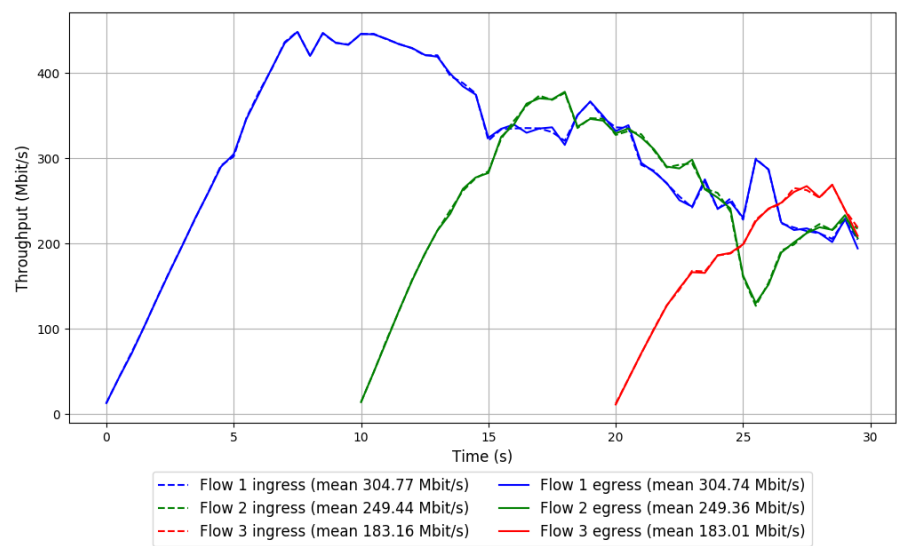
-- Flow 3:

Average throughput: 183.01 Mbit/s

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

Loss rate: 0.30%

Run 10: Report of LEDBAT — Data Link

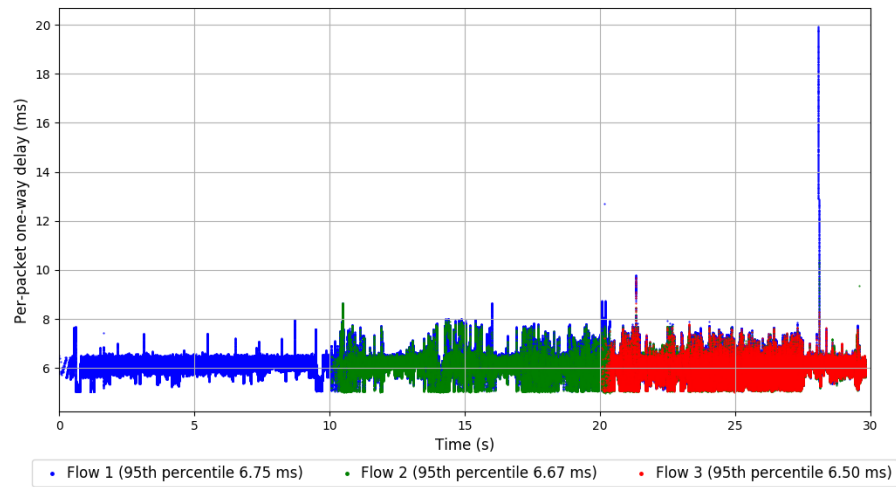
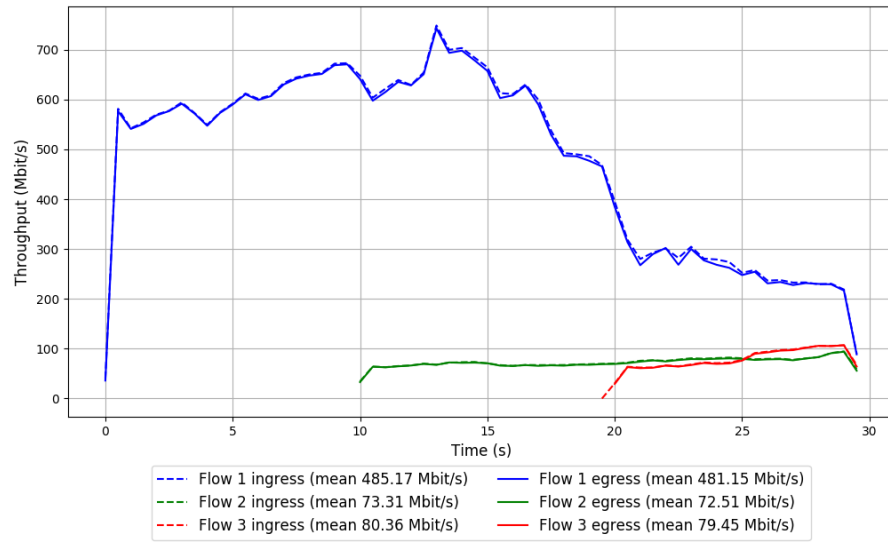


```
Run 1: Statistics of PCC

Start at: 2018-01-27 00:46:00
End at: 2018-01-27 00:46:30
Local clock offset: -3.159 ms

# Below is generated by plot.py at 2018-01-27 17:54:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 555.49 Mbit/s
95th percentile per-packet one-way delay: 6.721 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 481.15 Mbit/s
95th percentile per-packet one-way delay: 6.746 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 6.673 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 79.45 Mbit/s
95th percentile per-packet one-way delay: 6.495 ms
Loss rate: 1.31%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-27 01:37:13

End at: 2018-01-27 01:37:43

Local clock offset: -2.687 ms

Below is generated by plot.py at 2018-01-27 17:57:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 680.89 Mbit/s

95th percentile per-packet one-way delay: 8.449 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 485.69 Mbit/s

95th percentile per-packet one-way delay: 19.487 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 236.91 Mbit/s

95th percentile per-packet one-way delay: 7.050 ms

Loss rate: 0.04%

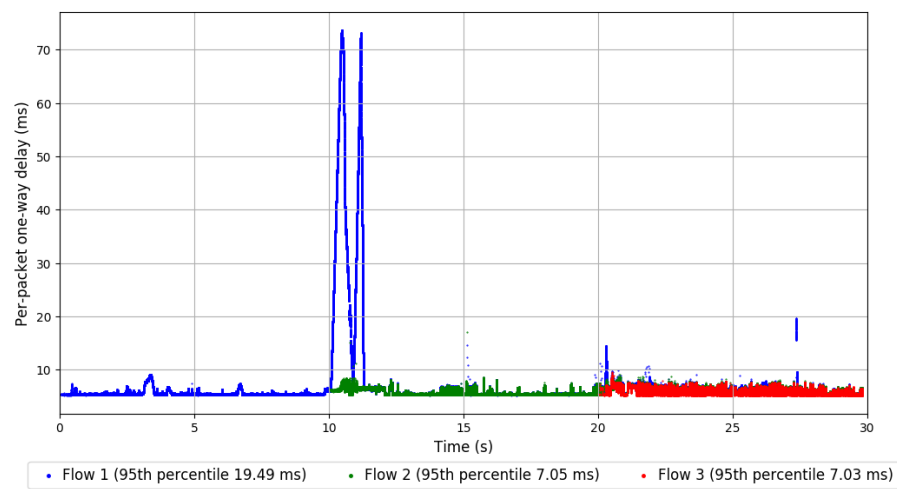
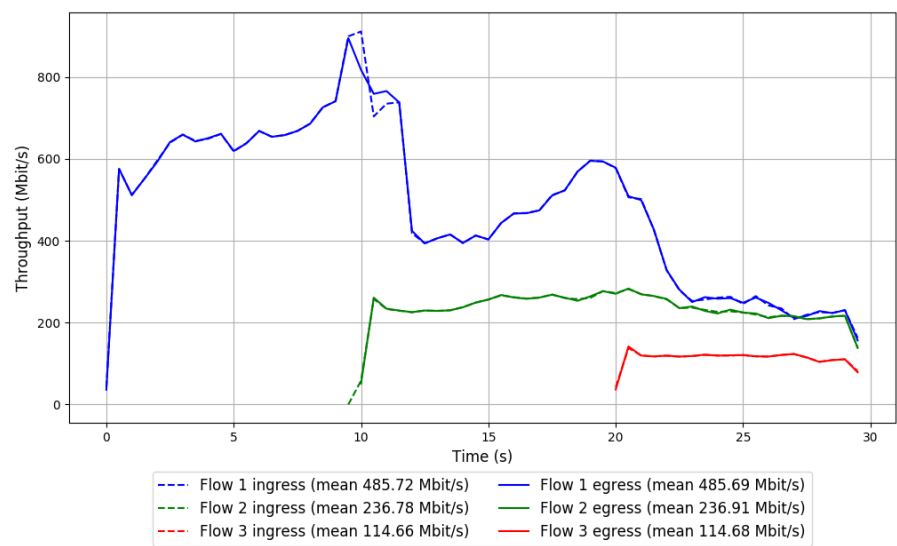
-- Flow 3:

Average throughput: 114.68 Mbit/s

95th percentile per-packet one-way delay: 7.034 ms

Loss rate: 0.19%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-27 02:28:09

End at: 2018-01-27 02:28:39

Local clock offset: -3.158 ms

Below is generated by plot.py at 2018-01-27 17:58:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 810.13 Mbit/s

95th percentile per-packet one-way delay: 8.570 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 563.84 Mbit/s

95th percentile per-packet one-way delay: 10.131 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 366.04 Mbit/s

95th percentile per-packet one-way delay: 8.380 ms

Loss rate: 0.06%

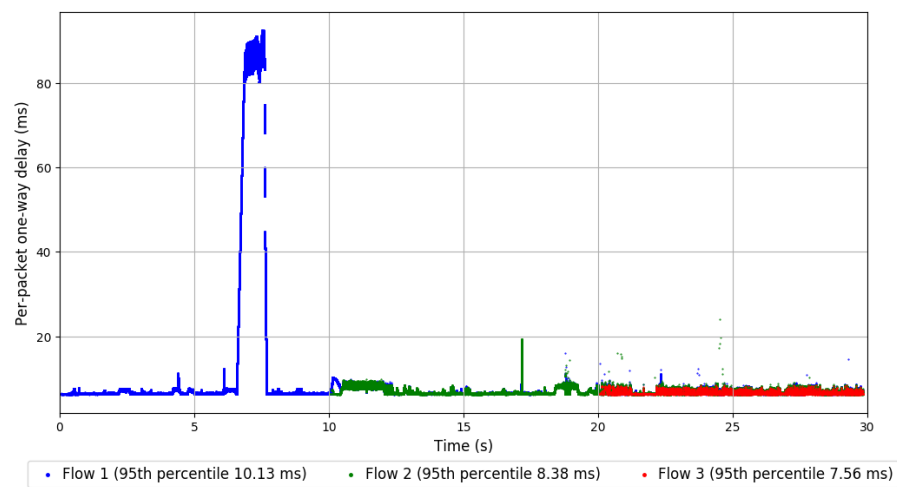
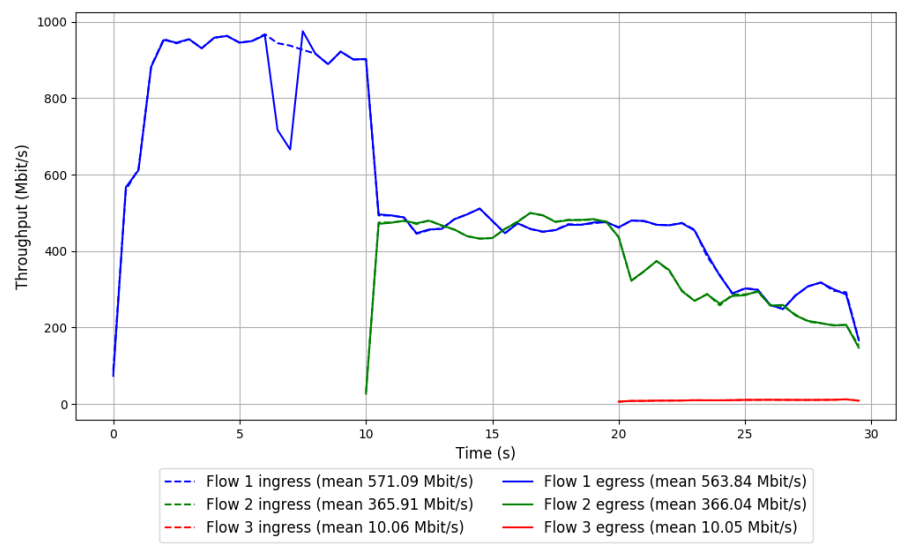
-- Flow 3:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 7.556 ms

Loss rate: 0.24%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-27 03:18:40

End at: 2018-01-27 03:19:10

Local clock offset: -1.897 ms

Below is generated by plot.py at 2018-01-27 18:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 904.75 Mbit/s

95th percentile per-packet one-way delay: 7.303 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 564.75 Mbit/s

95th percentile per-packet one-way delay: 6.981 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 386.61 Mbit/s

95th percentile per-packet one-way delay: 7.372 ms

Loss rate: 0.06%

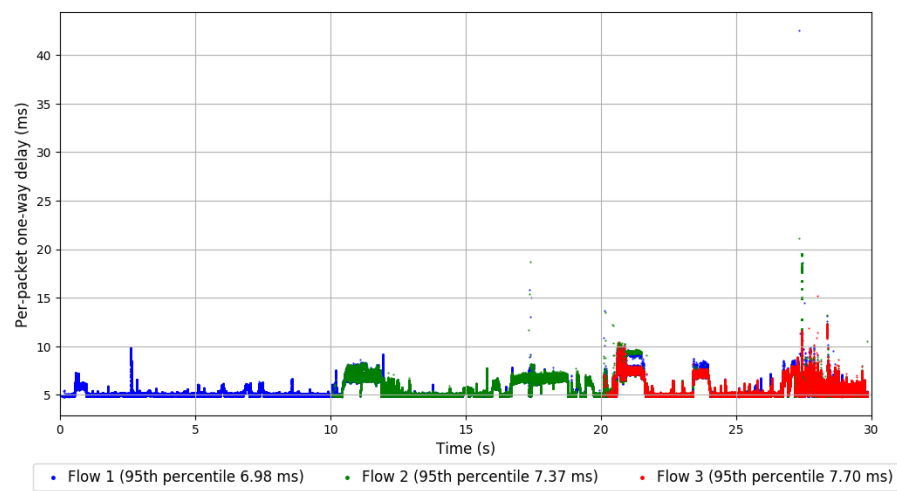
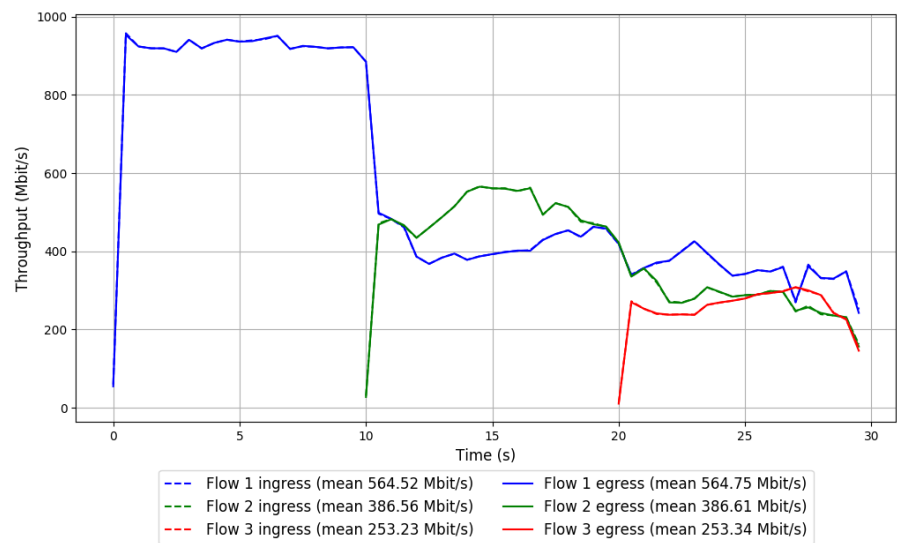
-- Flow 3:

Average throughput: 253.34 Mbit/s

95th percentile per-packet one-way delay: 7.700 ms

Loss rate: 0.15%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-27 04:09:29

End at: 2018-01-27 04:09:59

Local clock offset: -3.439 ms

Below is generated by plot.py at 2018-01-27 18:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.90 Mbit/s

95th percentile per-packet one-way delay: 7.682 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 588.26 Mbit/s

95th percentile per-packet one-way delay: 7.588 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 220.44 Mbit/s

95th percentile per-packet one-way delay: 7.904 ms

Loss rate: 0.09%

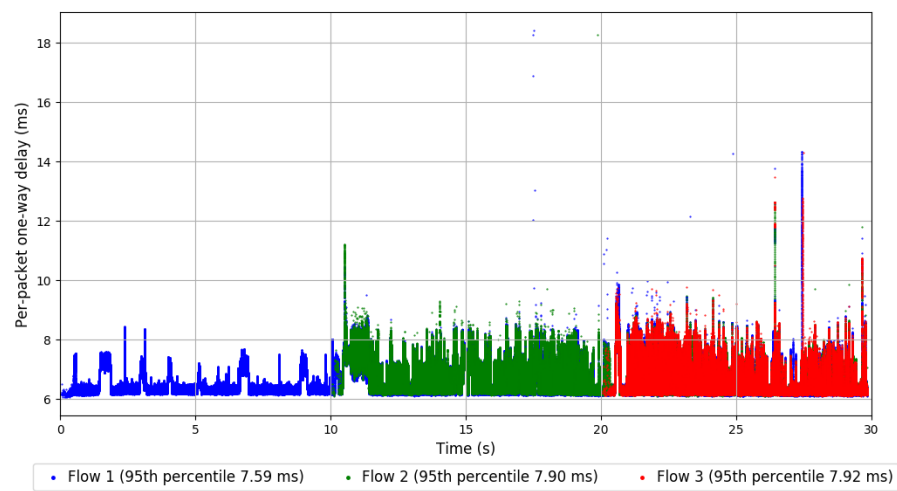
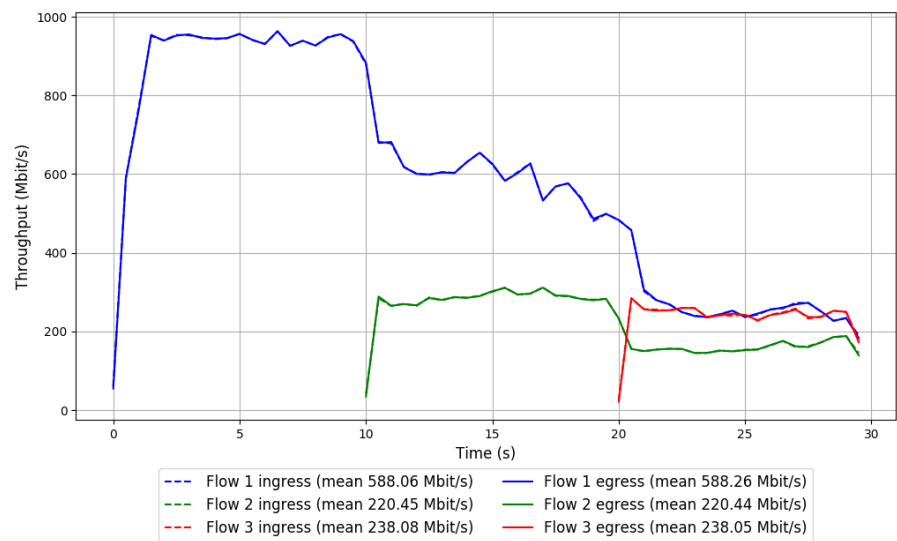
-- Flow 3:

Average throughput: 238.05 Mbit/s

95th percentile per-packet one-way delay: 7.919 ms

Loss rate: 0.20%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-27 05:00:16

End at: 2018-01-27 05:00:46

Local clock offset: -3.222 ms

Below is generated by plot.py at 2018-01-27 18:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 753.22 Mbit/s

95th percentile per-packet one-way delay: 7.265 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 660.02 Mbit/s

95th percentile per-packet one-way delay: 7.303 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 97.03 Mbit/s

95th percentile per-packet one-way delay: 7.025 ms

Loss rate: 0.17%

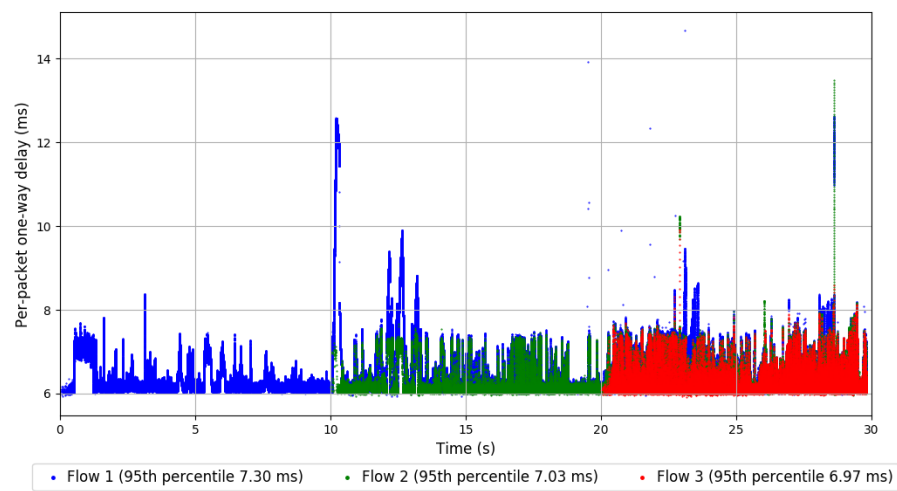
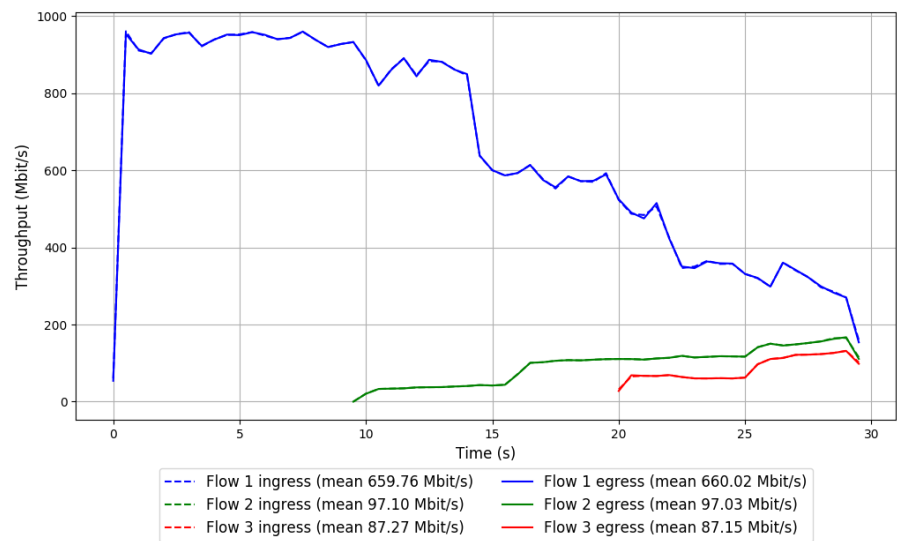
-- Flow 3:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 6.975 ms

Loss rate: 0.33%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-27 05:50:54

End at: 2018-01-27 05:51:24

Local clock offset: -2.215 ms

Below is generated by plot.py at 2018-01-27 18:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 823.74 Mbit/s

95th percentile per-packet one-way delay: 6.709 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 677.25 Mbit/s

95th percentile per-packet one-way delay: 6.656 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 101.80 Mbit/s

95th percentile per-packet one-way delay: 6.543 ms

Loss rate: 0.13%

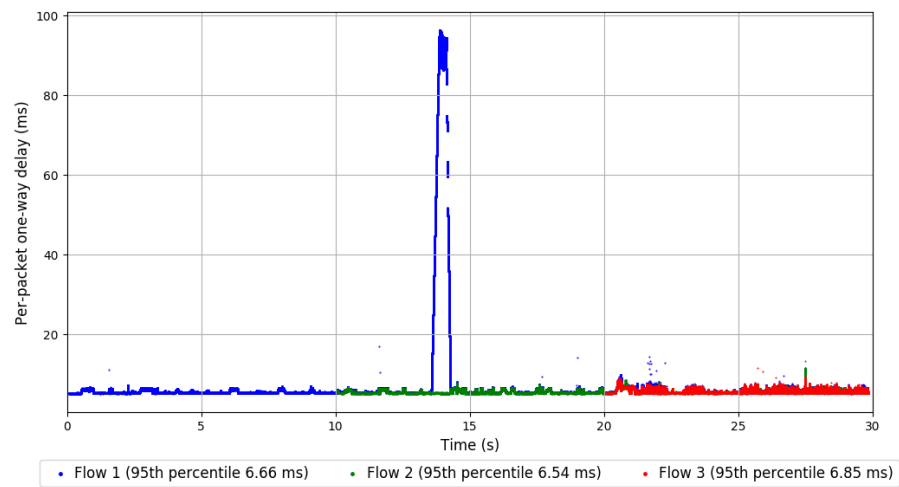
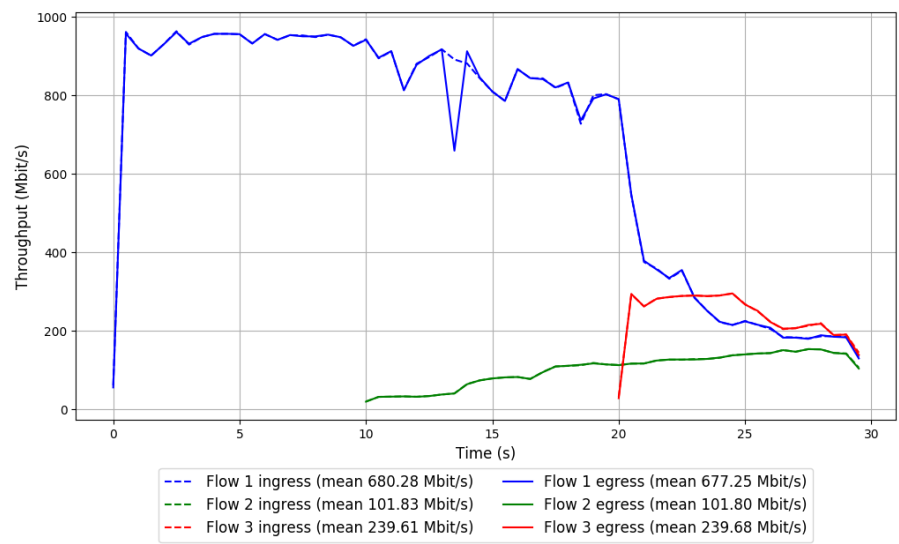
-- Flow 3:

Average throughput: 239.68 Mbit/s

95th percentile per-packet one-way delay: 6.853 ms

Loss rate: 0.17%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-27 06:41:53

End at: 2018-01-27 06:42:23

Local clock offset: -4.277 ms

Below is generated by plot.py at 2018-01-27 18:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 835.26 Mbit/s

95th percentile per-packet one-way delay: 9.118 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 612.45 Mbit/s

95th percentile per-packet one-way delay: 12.795 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 264.27 Mbit/s

95th percentile per-packet one-way delay: 8.734 ms

Loss rate: 0.07%

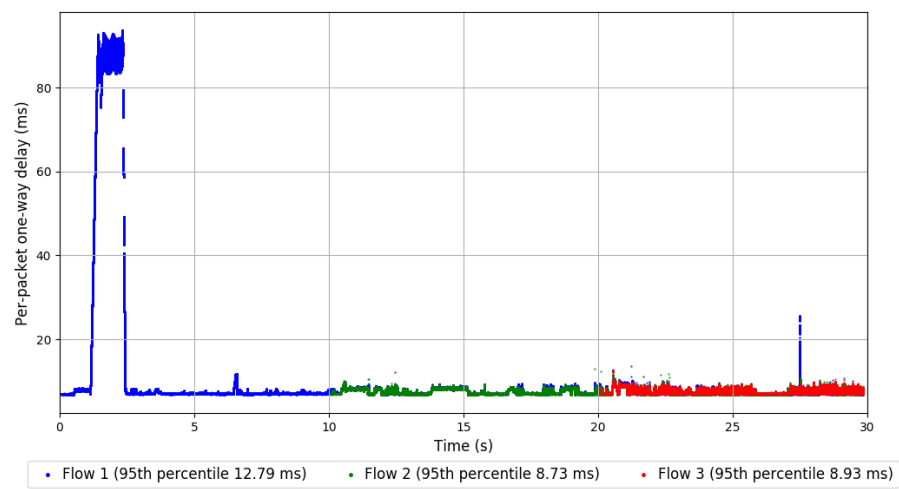
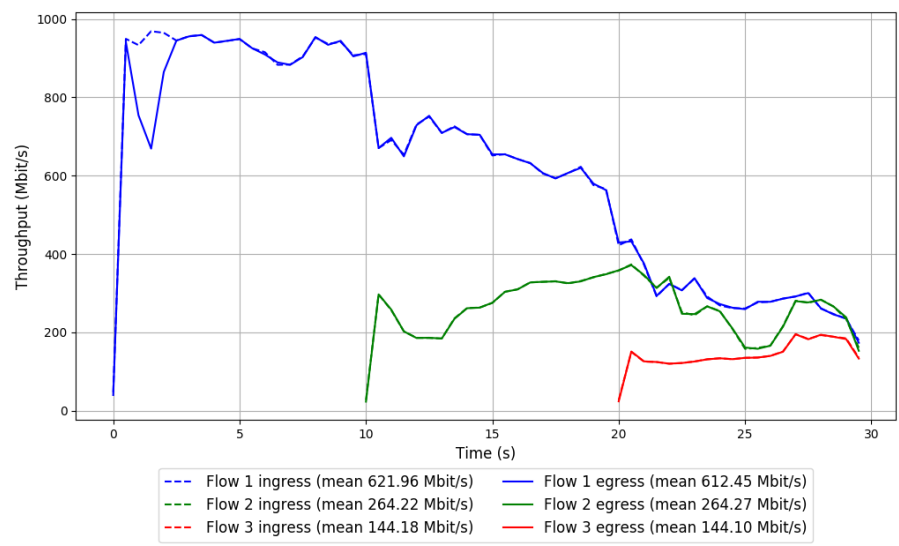
-- Flow 3:

Average throughput: 144.10 Mbit/s

95th percentile per-packet one-way delay: 8.926 ms

Loss rate: 0.25%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-27 07:32:47

End at: 2018-01-27 07:33:17

Local clock offset: 2.172 ms

Below is generated by plot.py at 2018-01-27 18:07:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 832.27 Mbit/s

95th percentile per-packet one-way delay: 3.975 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 693.09 Mbit/s

95th percentile per-packet one-way delay: 3.968 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 42.44 Mbit/s

95th percentile per-packet one-way delay: 3.835 ms

Loss rate: 0.14%

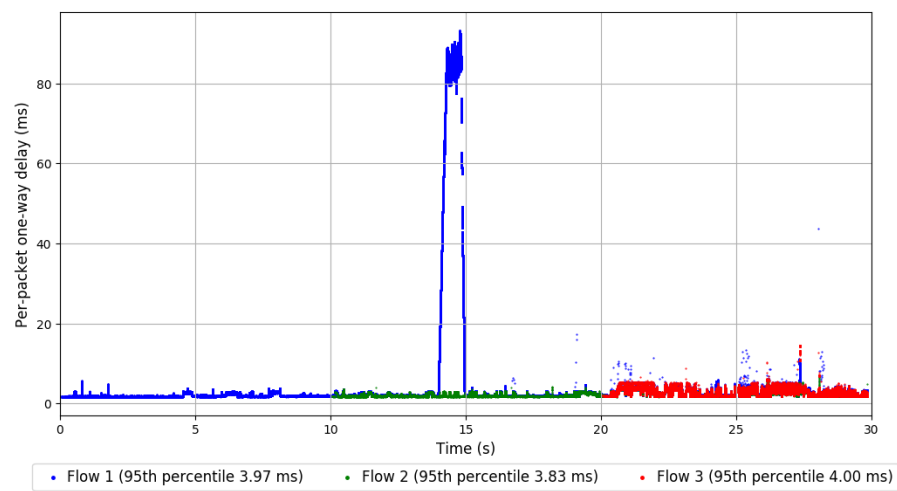
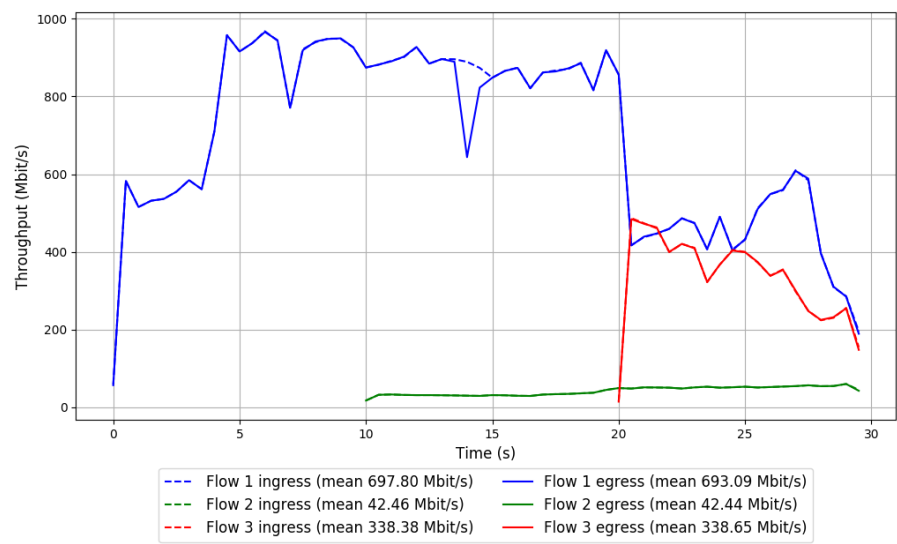
-- Flow 3:

Average throughput: 338.65 Mbit/s

95th percentile per-packet one-way delay: 4.004 ms

Loss rate: 0.12%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-27 08:23:40

End at: 2018-01-27 08:24:10

Local clock offset: 1.827 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.19 Mbit/s

95th percentile per-packet one-way delay: 2.097 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 734.78 Mbit/s

95th percentile per-packet one-way delay: 2.043 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 130.73 Mbit/s

95th percentile per-packet one-way delay: 2.126 ms

Loss rate: 0.18%

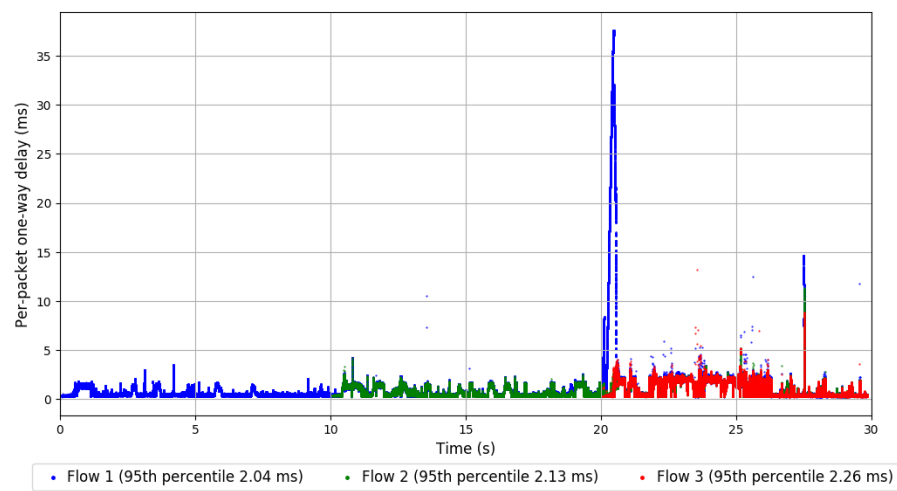
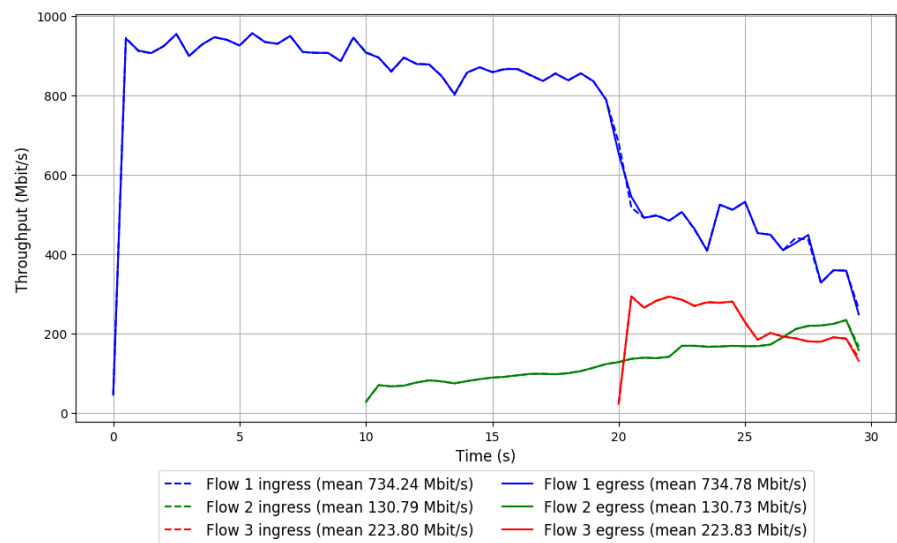
-- Flow 3:

Average throughput: 223.83 Mbit/s

95th percentile per-packet one-way delay: 2.256 ms

Loss rate: 0.18%

Run 10: Report of PCC — Data Link



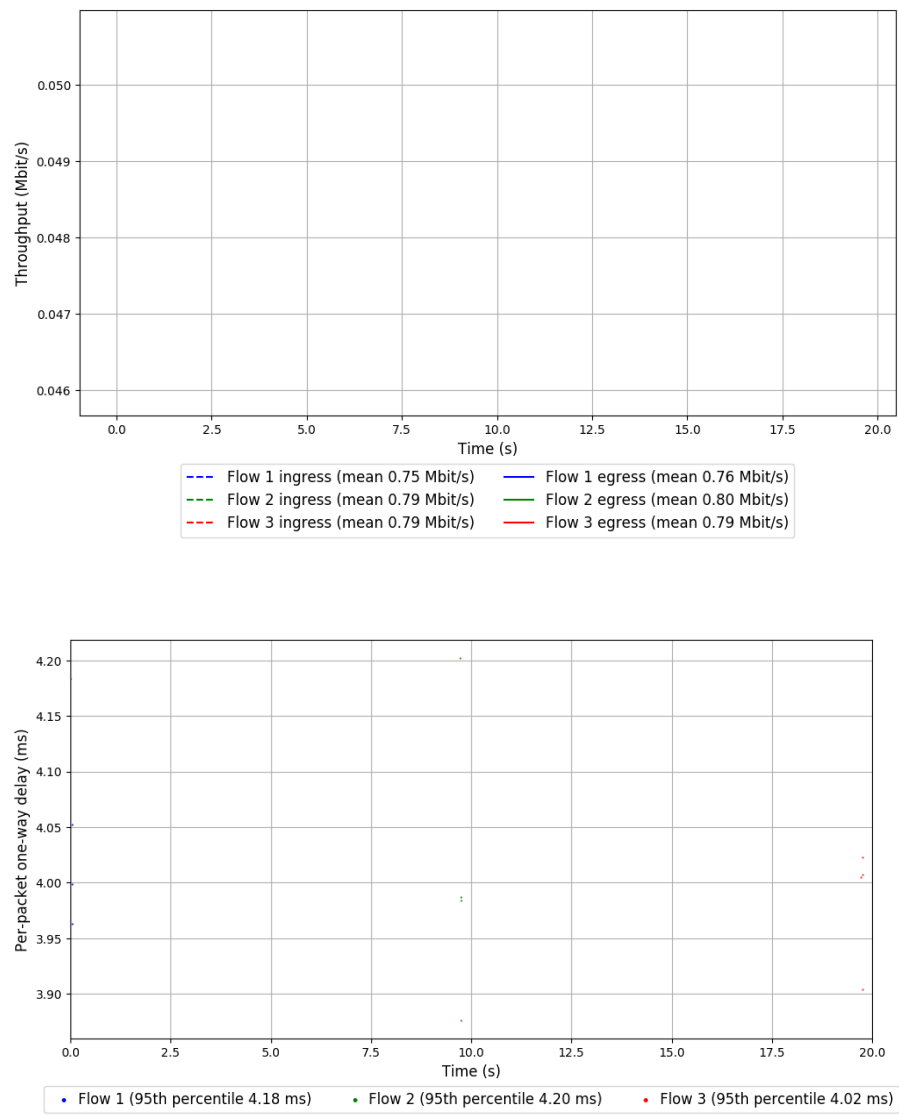
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-27 00:14:51

End at: 2018-01-27 00:15:21

Local clock offset: -2.643 ms

Run 1: Report of QUIC Cubic — Data Link



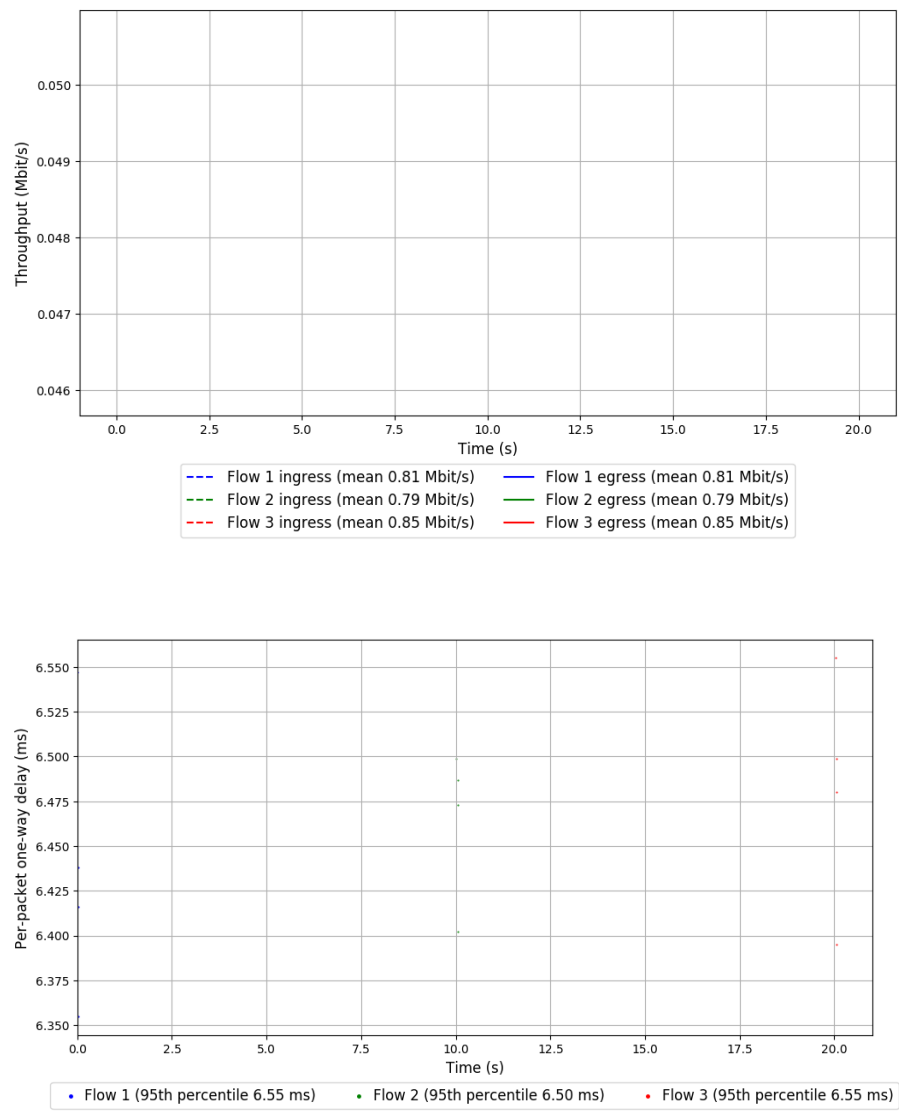
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-27 01:05:35

End at: 2018-01-27 01:06:05

Local clock offset: -4.132 ms

Run 2: Report of QUIC Cubic — Data Link



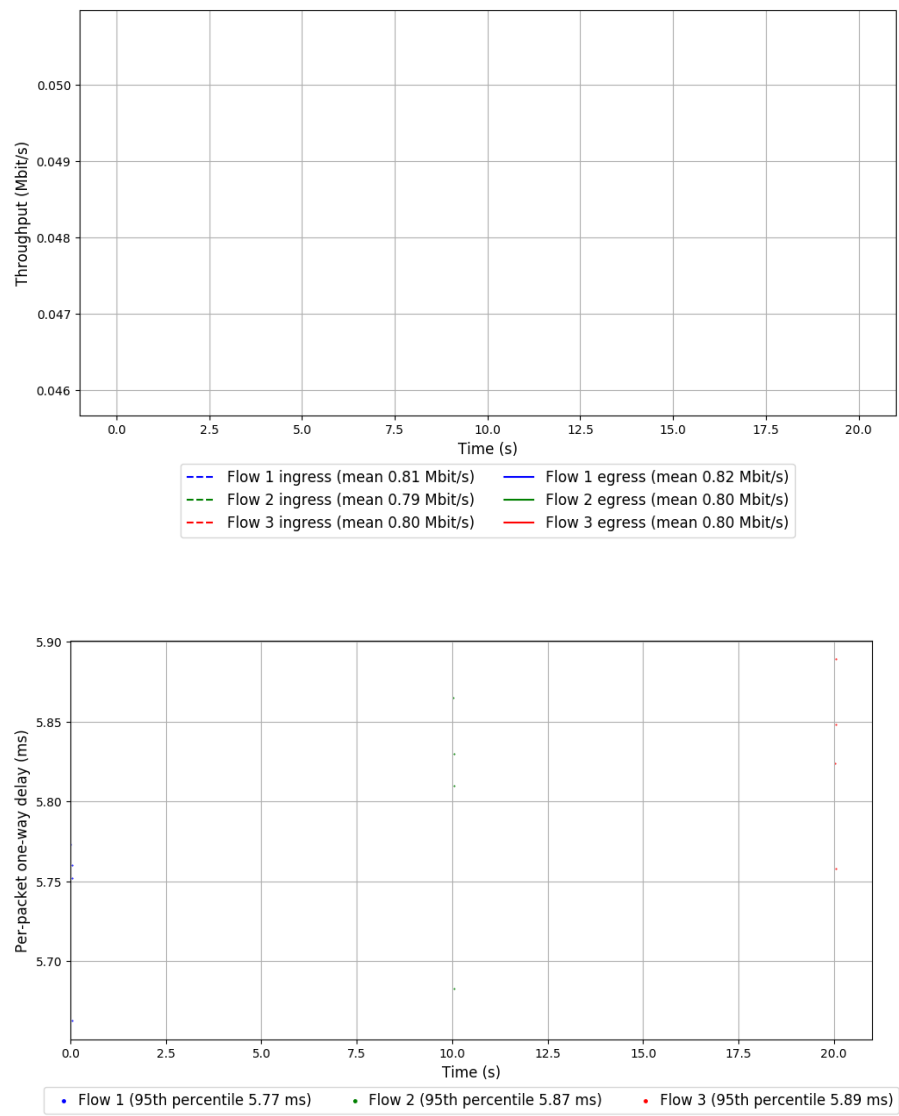
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-27 01:56:26

End at: 2018-01-27 01:56:56

Local clock offset: -2.935 ms

Run 3: Report of QUIC Cubic — Data Link



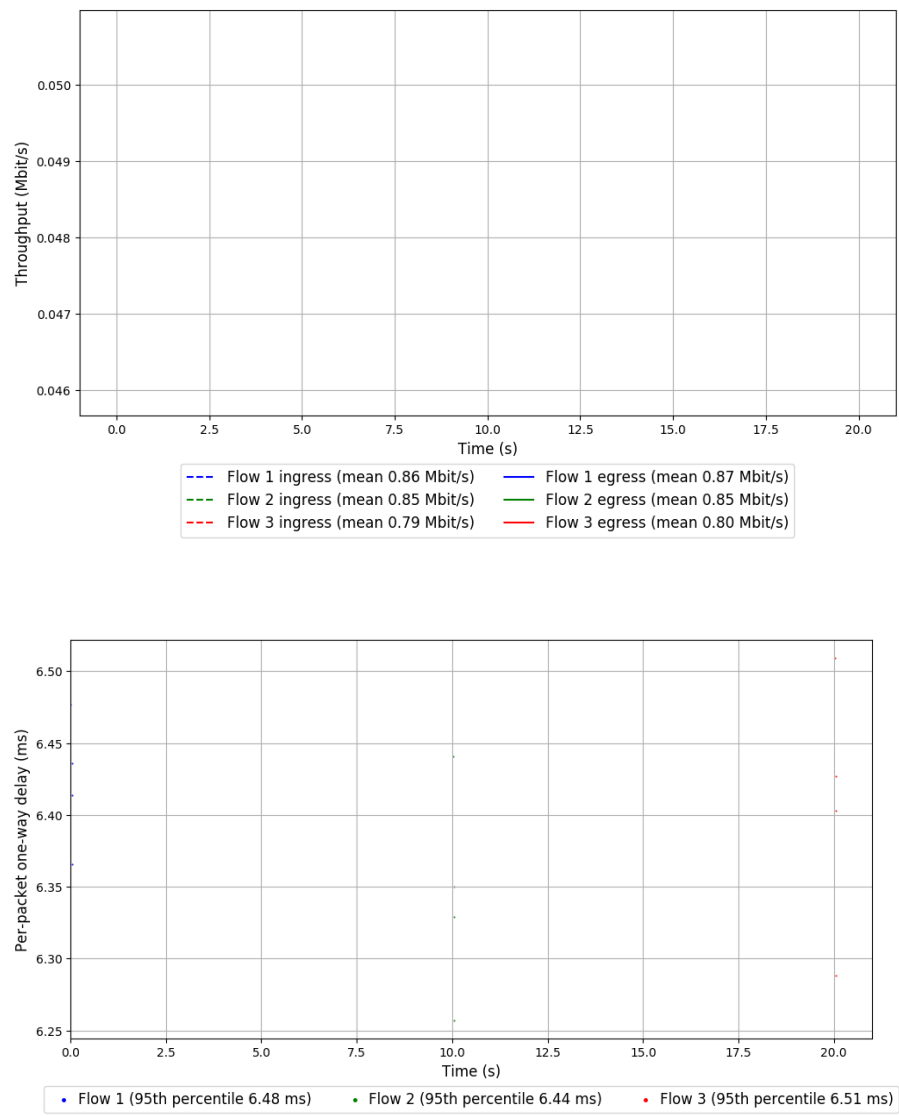
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-27 02:47:26

End at: 2018-01-27 02:47:56

Local clock offset: -3.22 ms

Run 4: Report of QUIC Cubic — Data Link



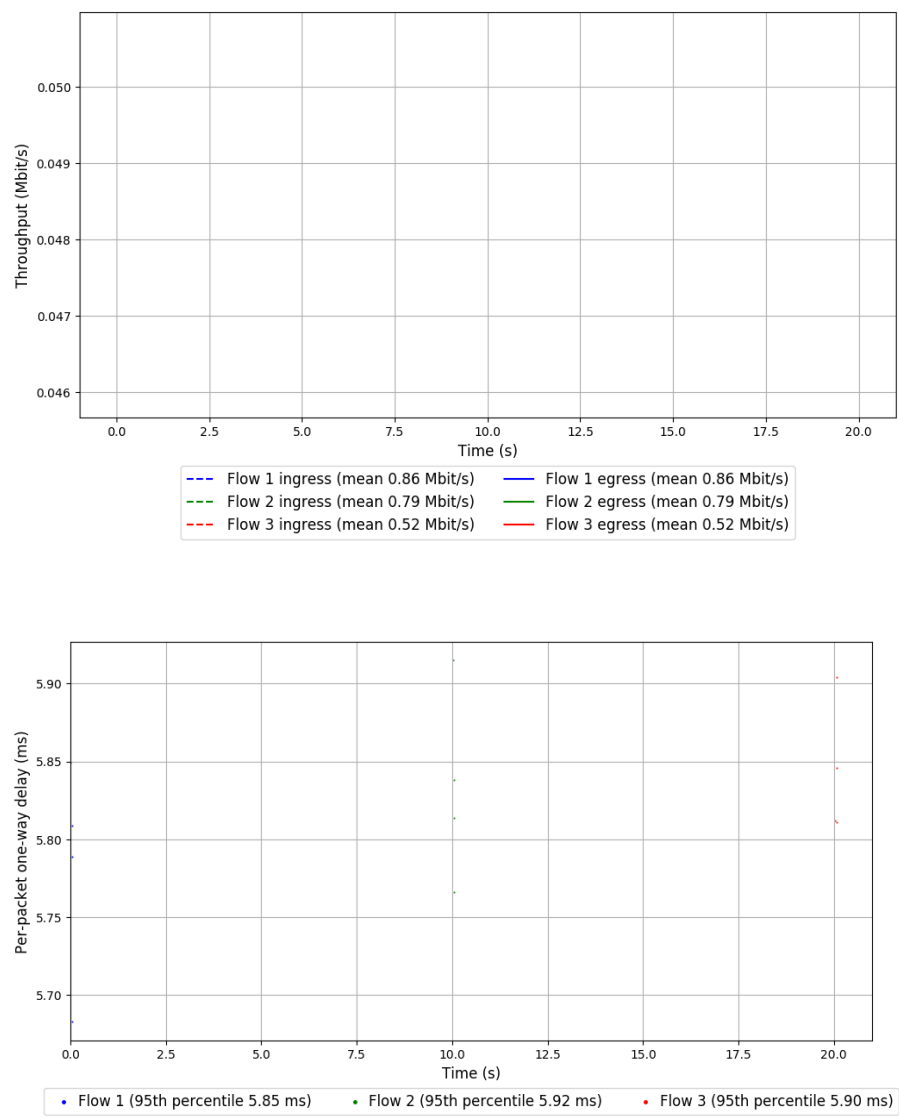
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-27 03:37:52

End at: 2018-01-27 03:38:22

Local clock offset: -2.54 ms

Run 5: Report of QUIC Cubic — Data Link



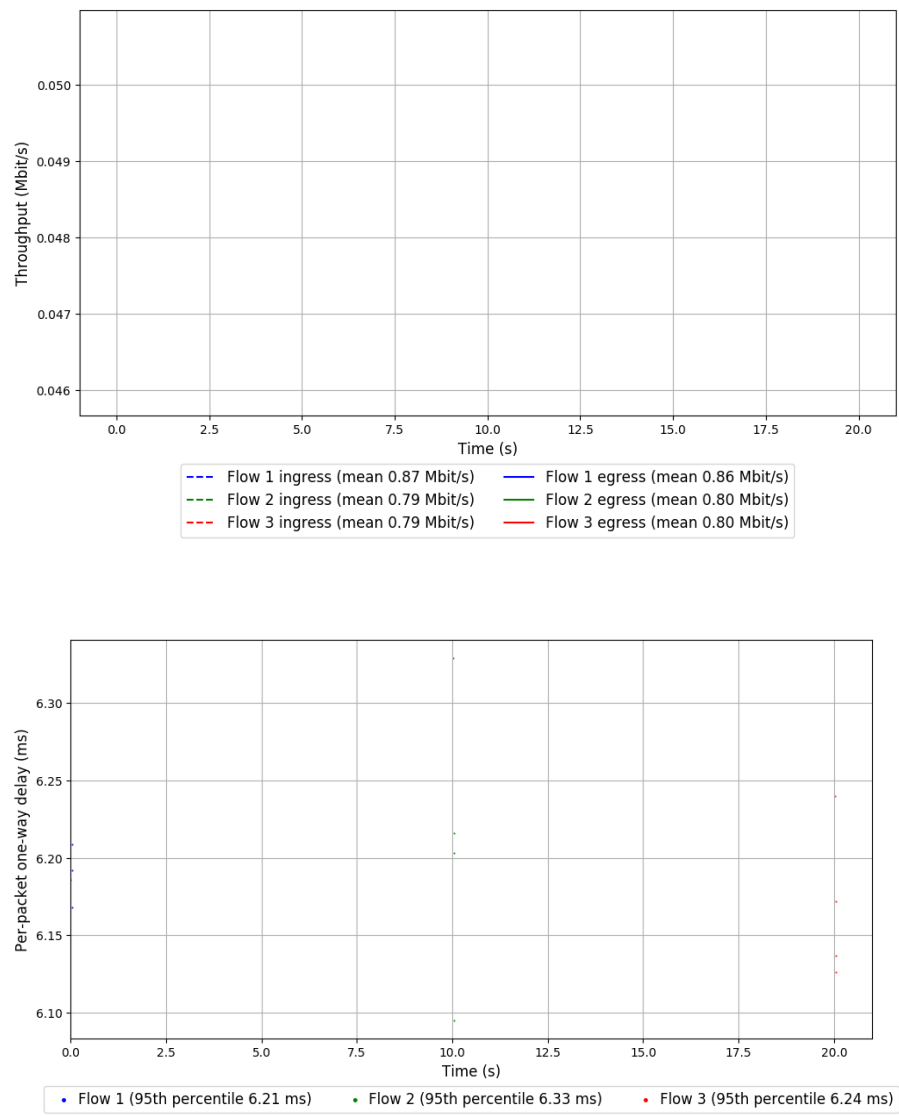
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-27 04:28:39

End at: 2018-01-27 04:29:09

Local clock offset: -3.261 ms

Run 6: Report of QUIC Cubic — Data Link



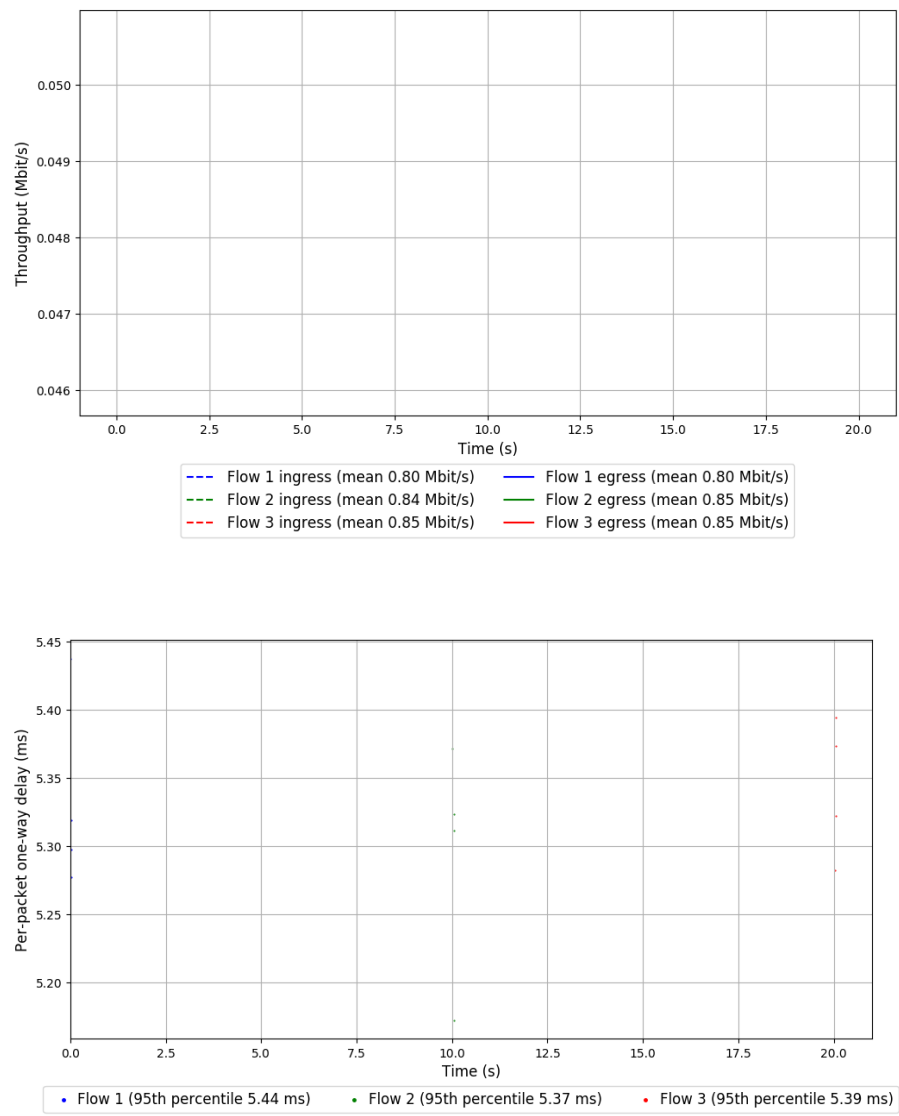
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-27 05:19:23

End at: 2018-01-27 05:19:53

Local clock offset: -2.647 ms

Run 7: Report of QUIC Cubic — Data Link



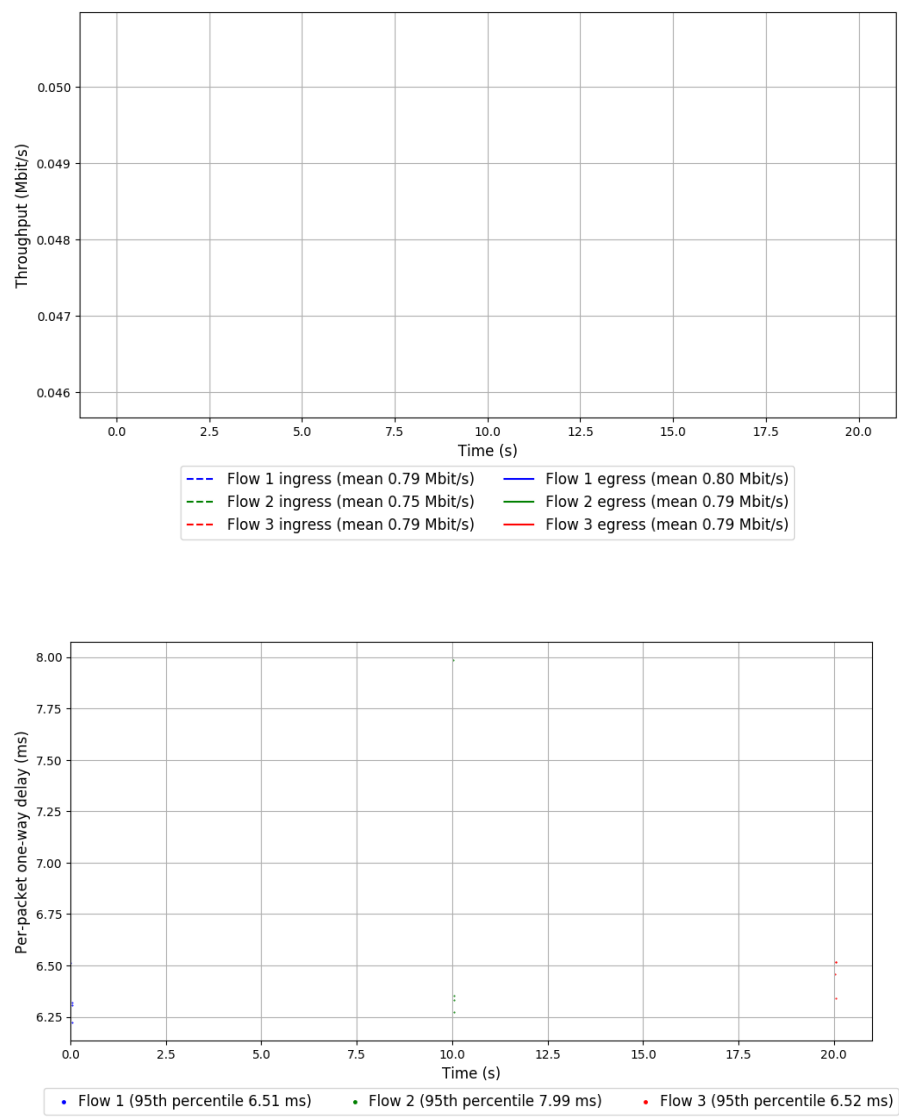
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-27 06:10:10

End at: 2018-01-27 06:10:40

Local clock offset: -3.592 ms

Run 8: Report of QUIC Cubic — Data Link



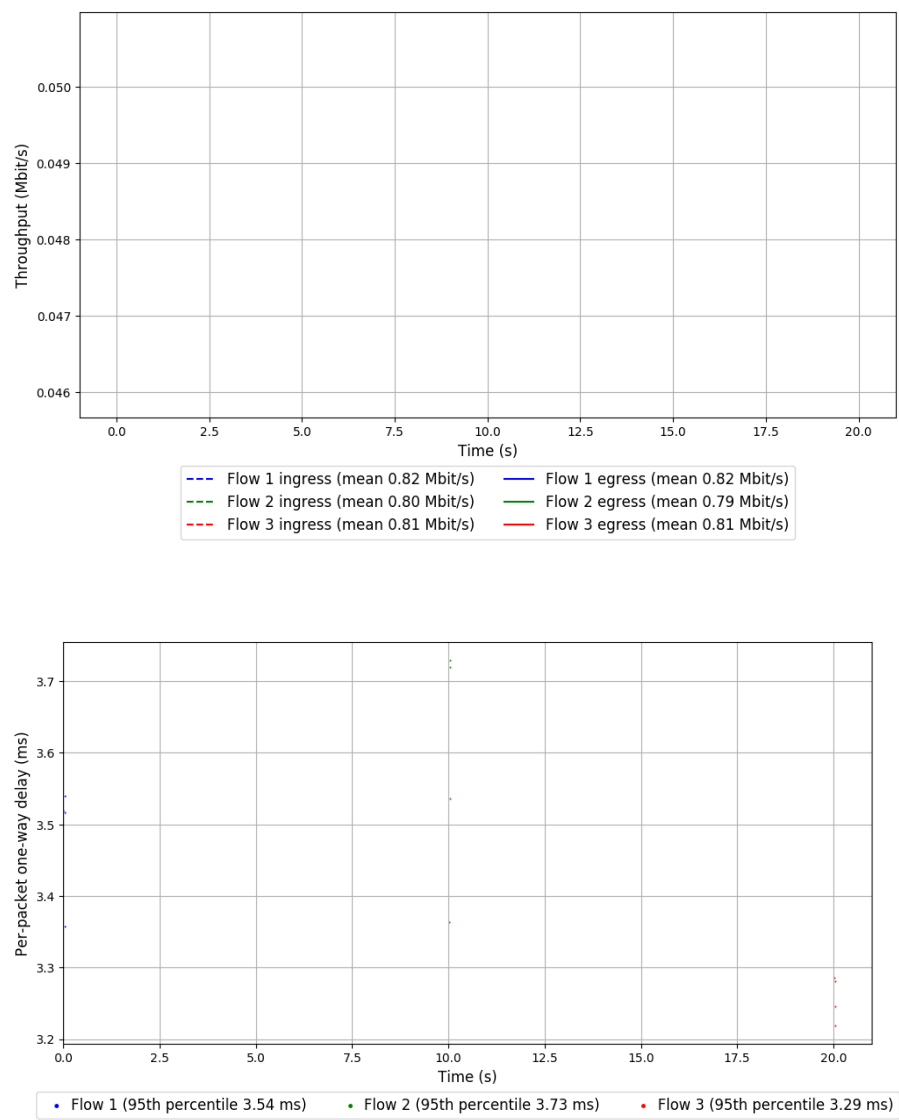
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-27 07:01:07

End at: 2018-01-27 07:01:37

Local clock offset: -1.946 ms

Run 9: Report of QUIC Cubic — Data Link



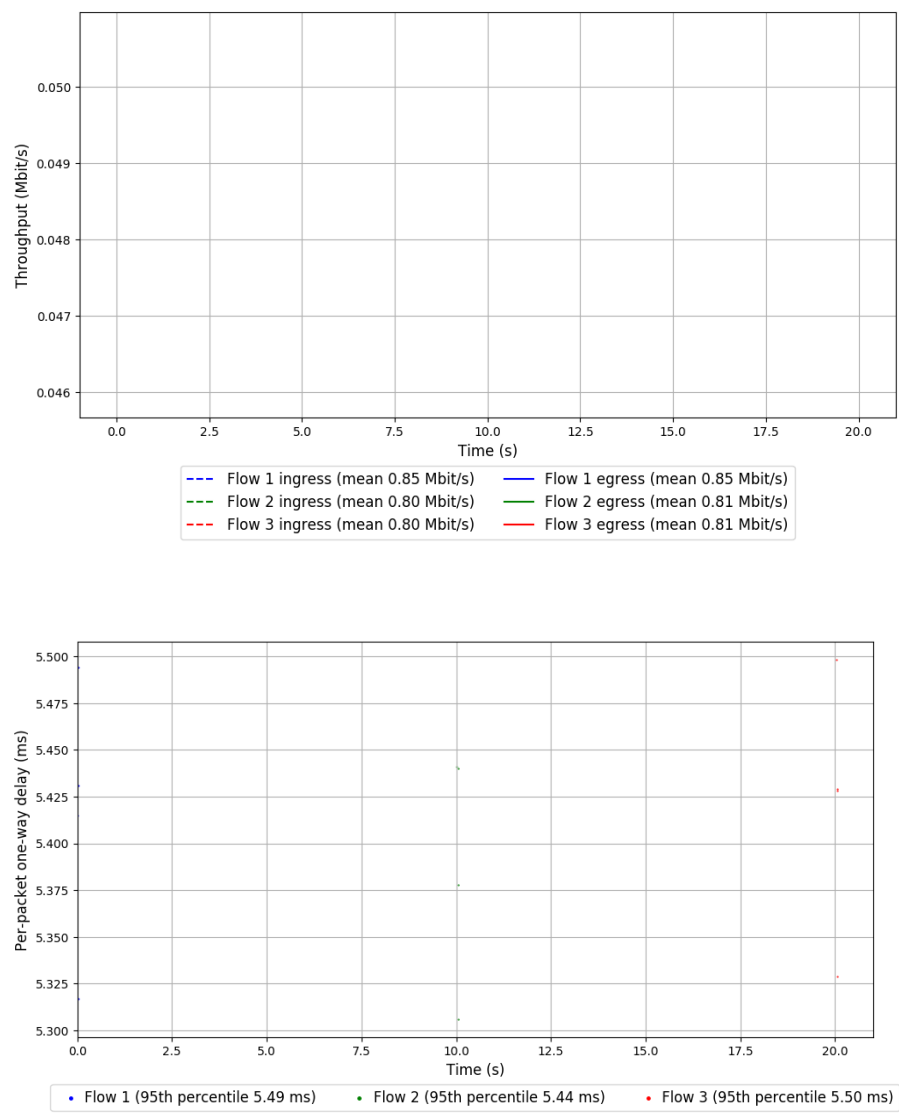
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-27 07:52:03

End at: 2018-01-27 07:52:33

Local clock offset: -2.783 ms

Run 10: Report of QUIC Cubic — Data Link

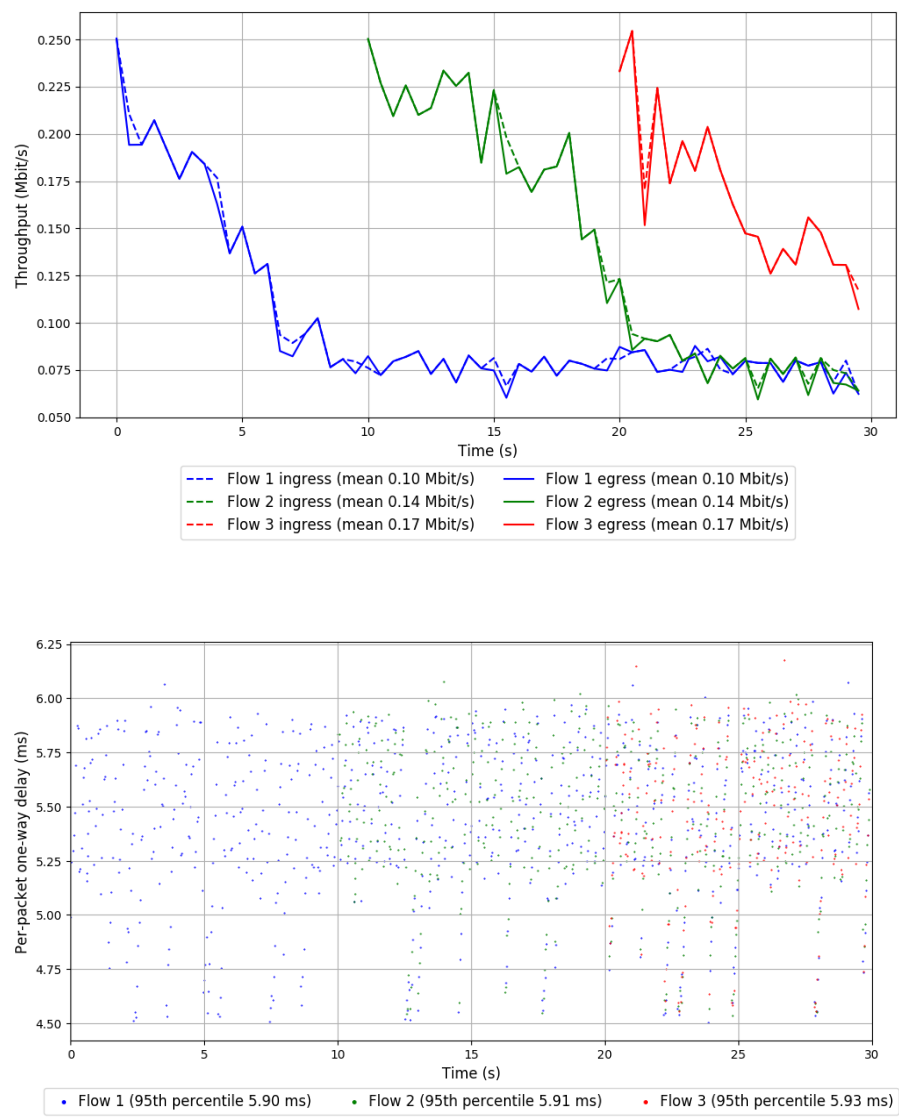


```
Run 1: Statistics of SReAM

Start at: 2018-01-27 00:40:07
End at: 2018-01-27 00:40:37
Local clock offset: -2.614 ms

# Below is generated by plot.py at 2018-01-27 18:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 5.908 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 5.897 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 5.909 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 5.926 ms
Loss rate: 0.86%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-01-27 01:30:52

End at: 2018-01-27 01:31:22

Local clock offset: -2.866 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 5.609 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 5.621 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 5.612 ms

Loss rate: 0.00%

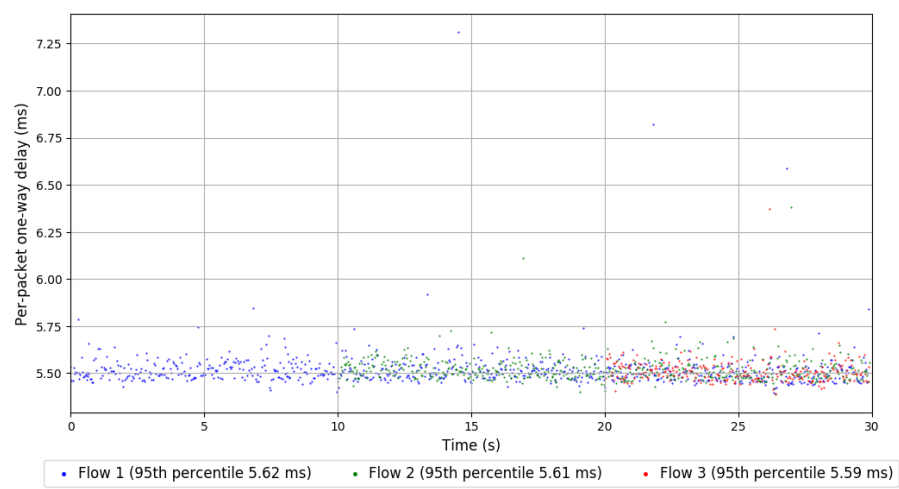
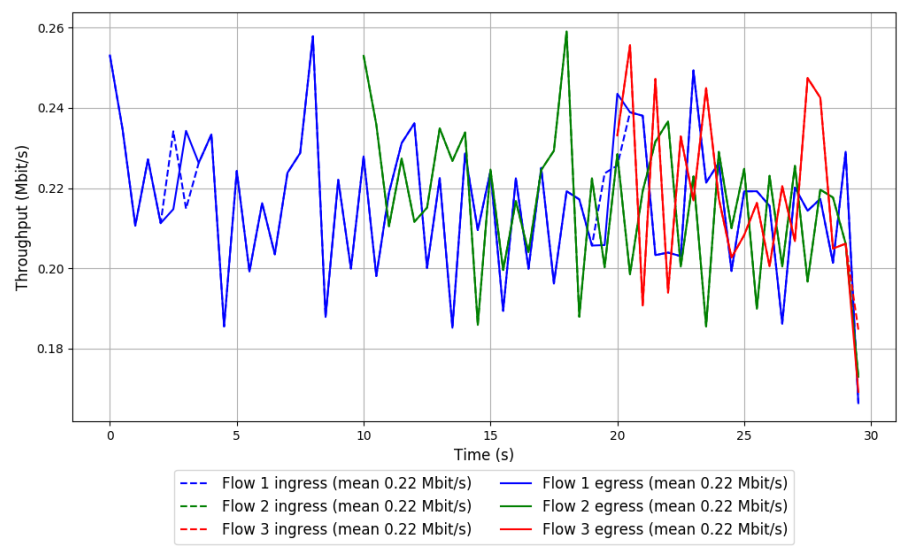
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 5.594 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-27 02:21:46

End at: 2018-01-27 02:22:16

Local clock offset: -3.169 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 6.546 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.556 ms

Loss rate: 0.00%

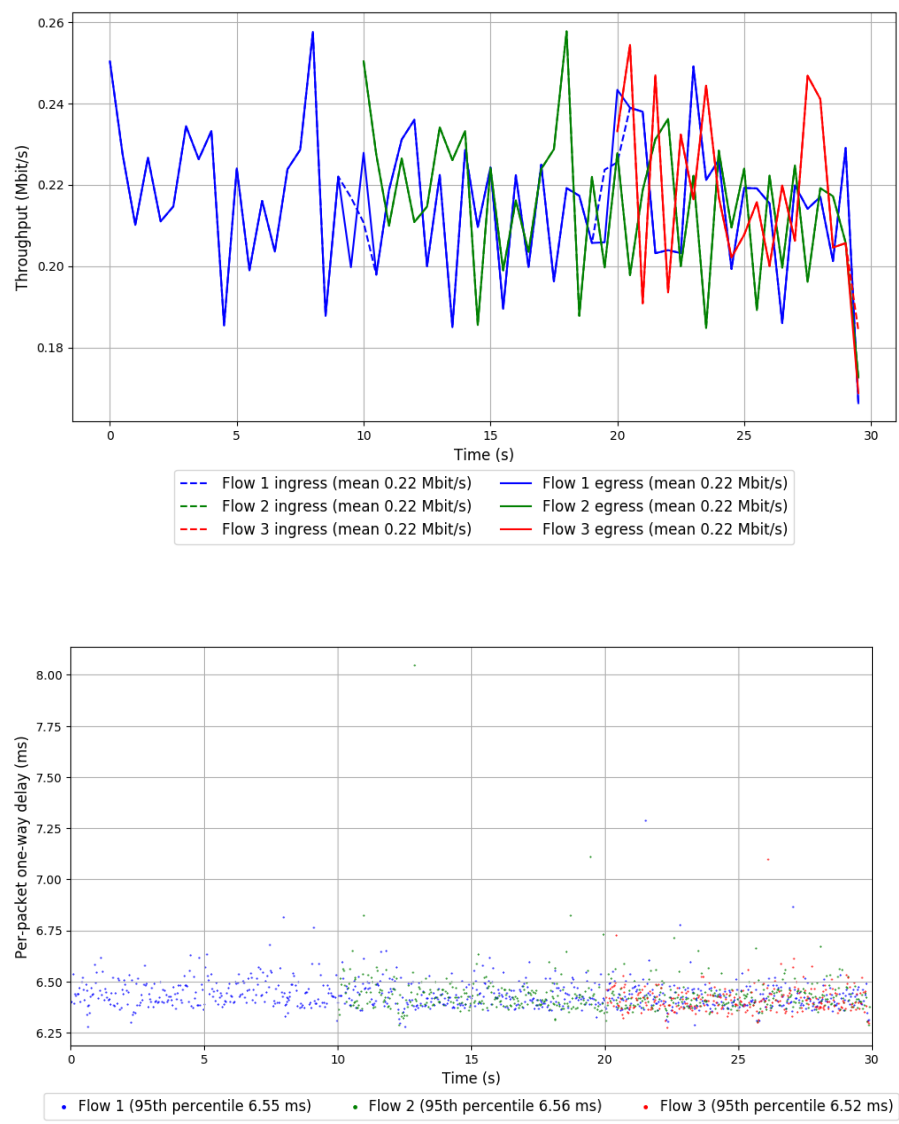
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.521 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-27 03:12:19

End at: 2018-01-27 03:12:49

Local clock offset: -2.025 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 5.436 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 5.378 ms

Loss rate: 0.00%

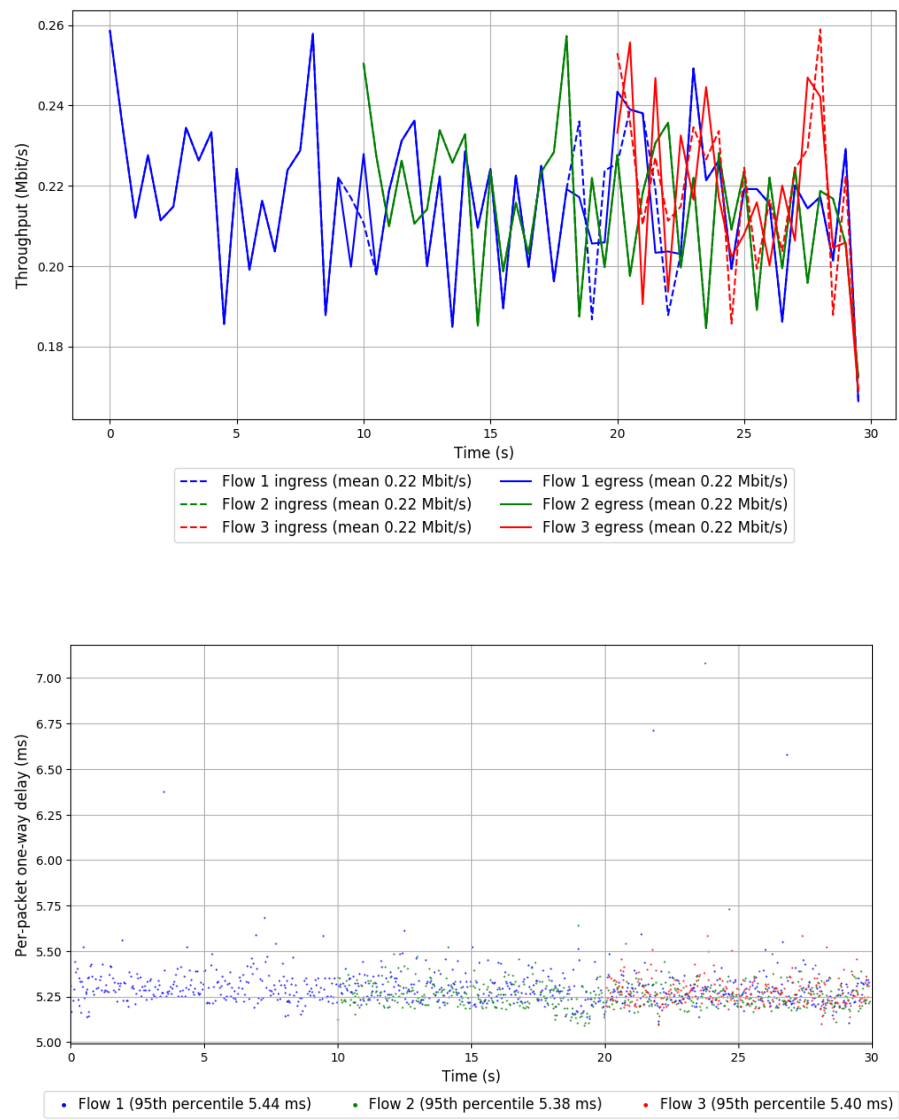
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 5.399 ms

Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-27 04:03:05

End at: 2018-01-27 04:03:35

Local clock offset: -3.61 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 6.790 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.767 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.818 ms

Loss rate: 0.00%

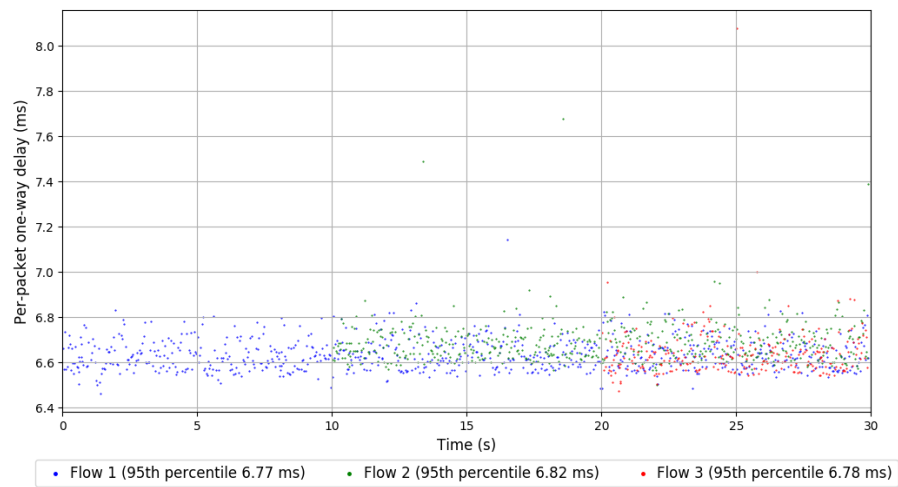
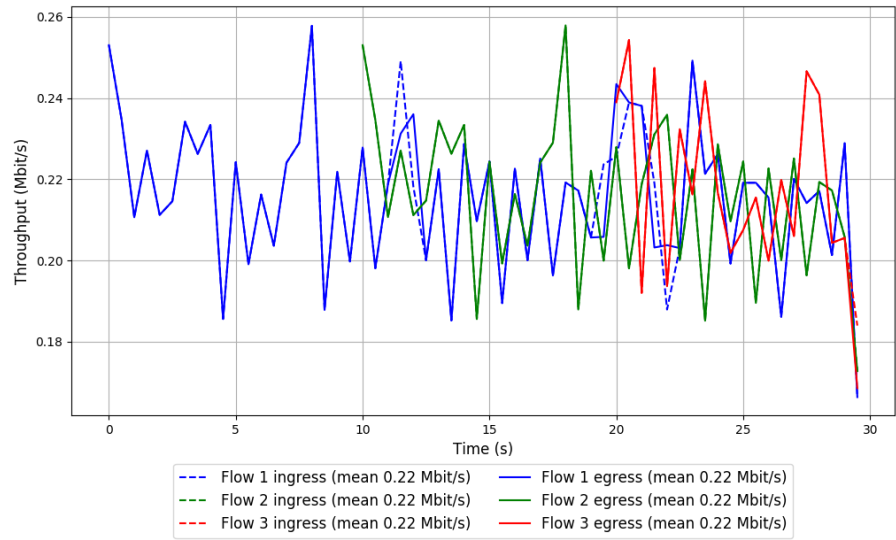
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.778 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-27 04:53:52

End at: 2018-01-27 04:54:22

Local clock offset: -3.154 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 6.333 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.323 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.342 ms

Loss rate: 0.00%

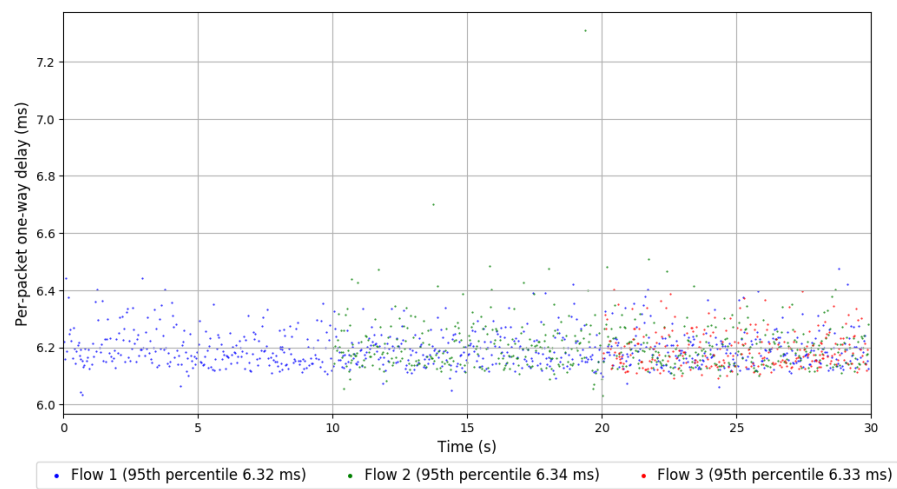
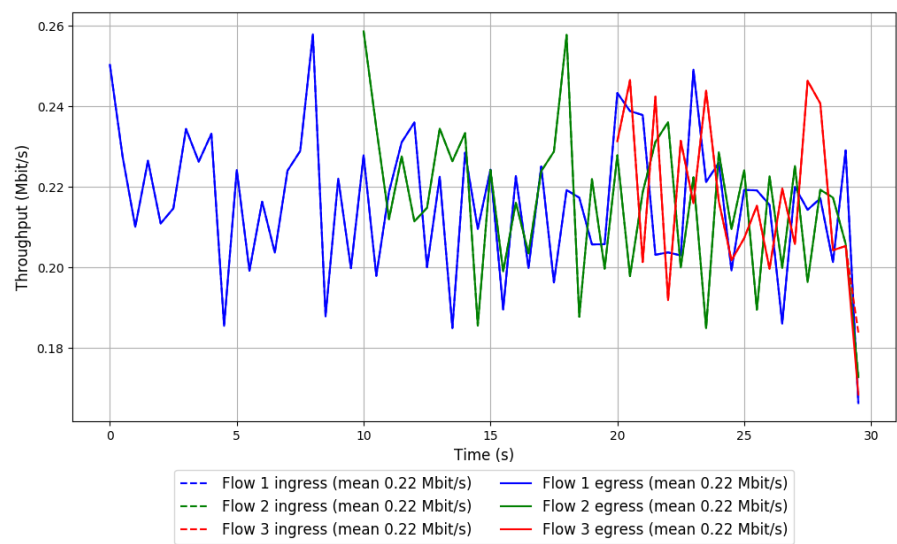
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 6.334 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-01-27 05:44:31

End at: 2018-01-27 05:45:01

Local clock offset: -1.736 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 4.685 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 4.691 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 4.685 ms

Loss rate: 0.00%

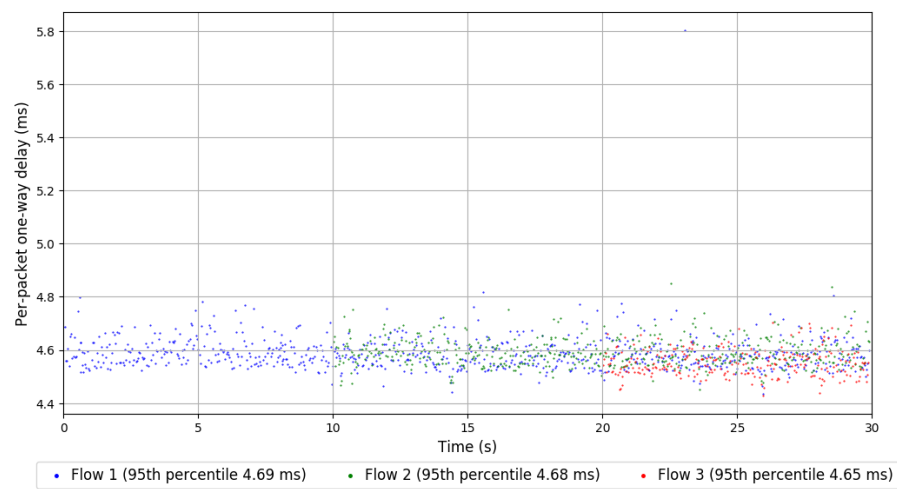
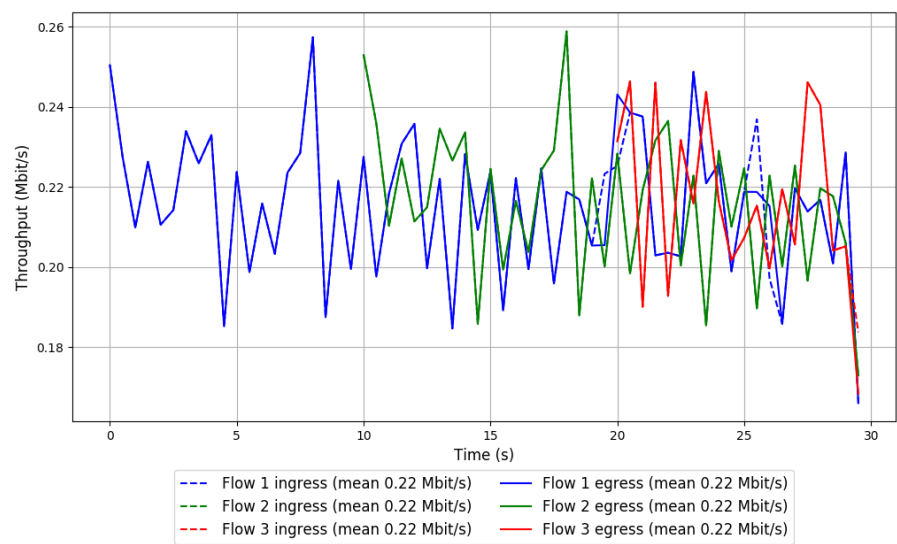
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 4.649 ms

Loss rate: 0.35%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-27 06:35:30

End at: 2018-01-27 06:36:00

Local clock offset: -4.148 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 7.082 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.081 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.070 ms

Loss rate: 0.00%

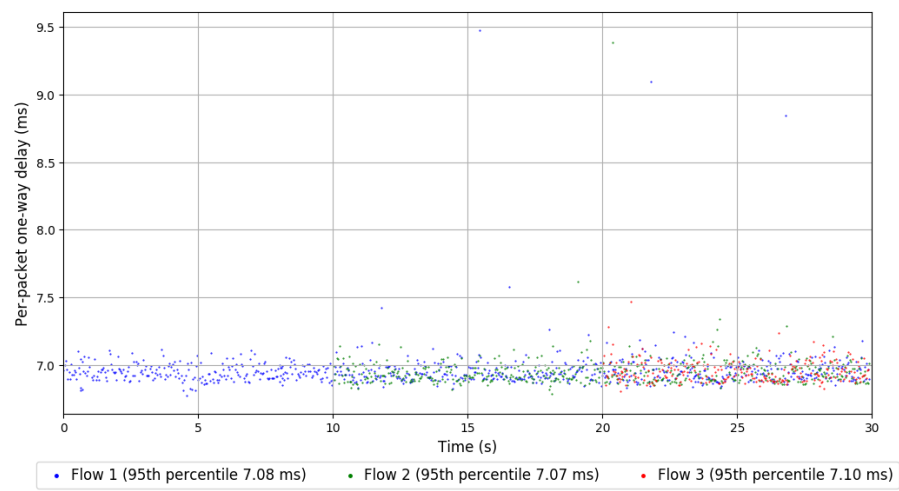
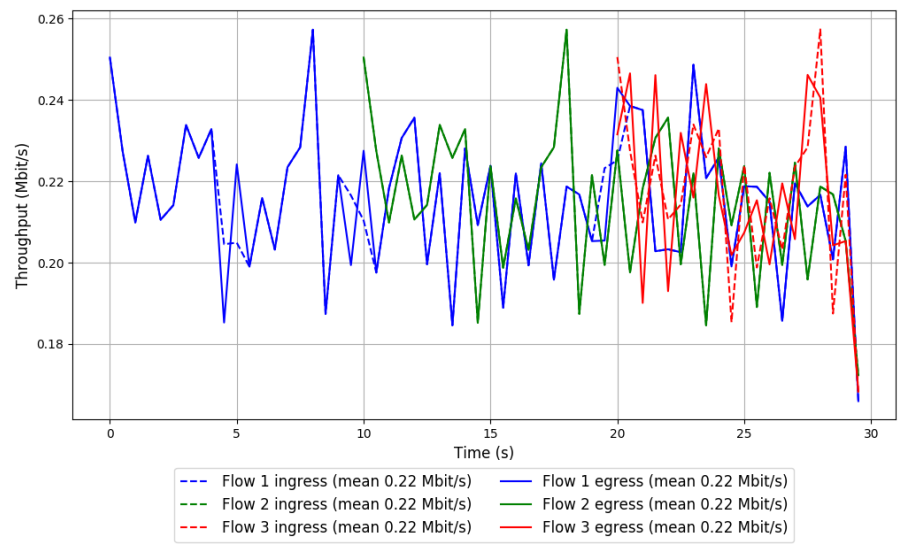
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.104 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-27 07:26:25

End at: 2018-01-27 07:26:55

Local clock offset: 3.398 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: -0.820 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -0.815 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -0.820 ms

Loss rate: 0.00%

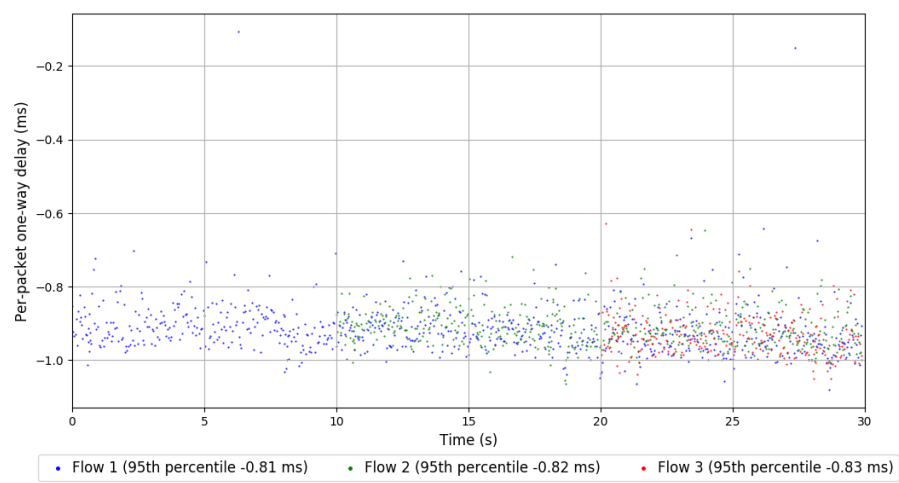
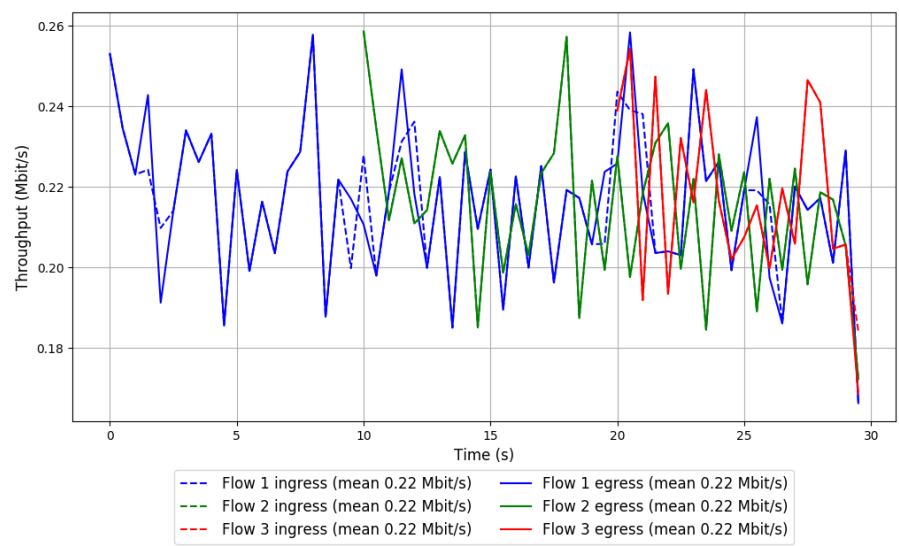
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -0.832 ms

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-27 08:17:18

End at: 2018-01-27 08:17:48

Local clock offset: 0.807 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.377 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.359 ms

Loss rate: 0.00%

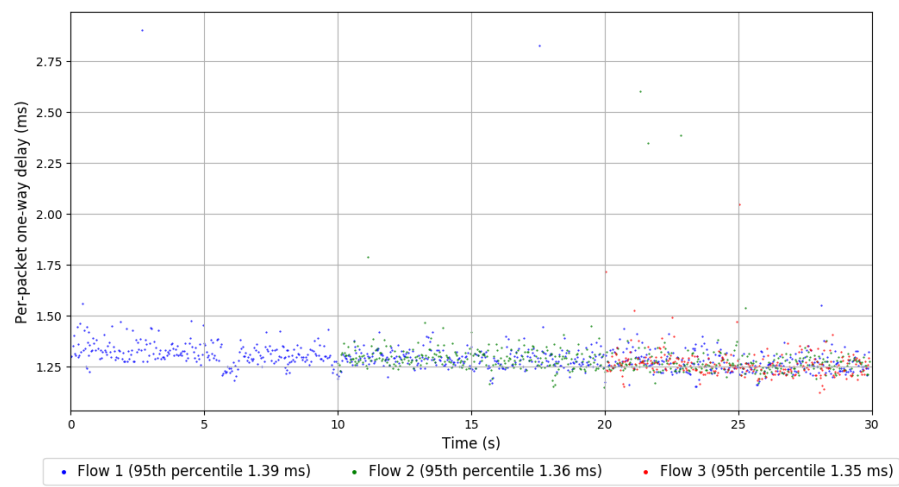
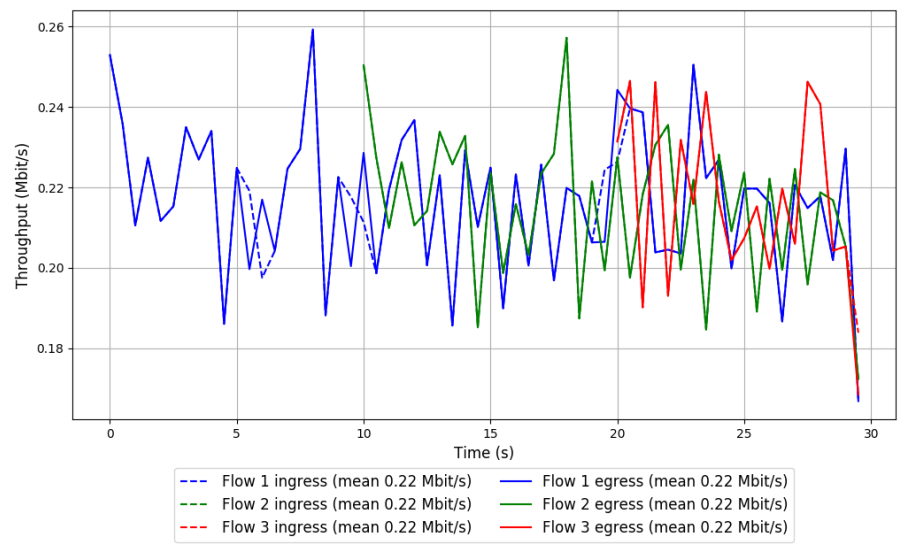
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.350 ms

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-01-27 00:37:12

End at: 2018-01-27 00:37:42

Local clock offset: -2.555 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

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

Loss rate: 3.27%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.560 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.591 ms

Loss rate: 8.37%

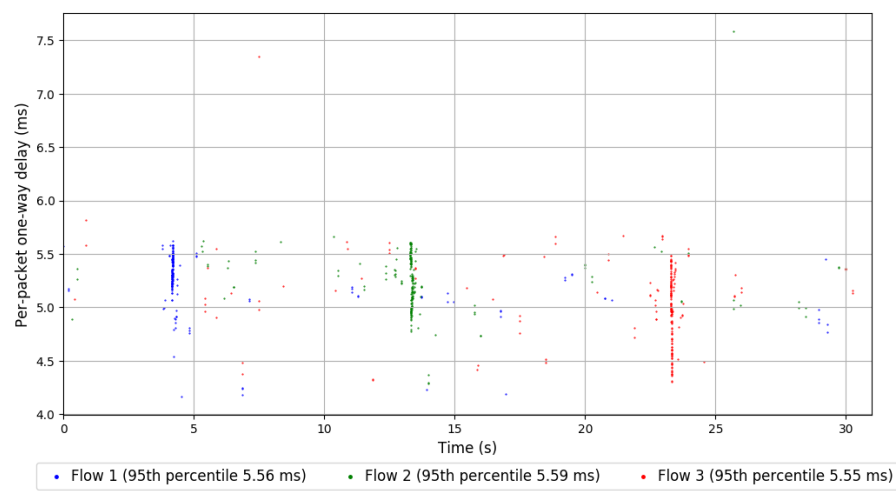
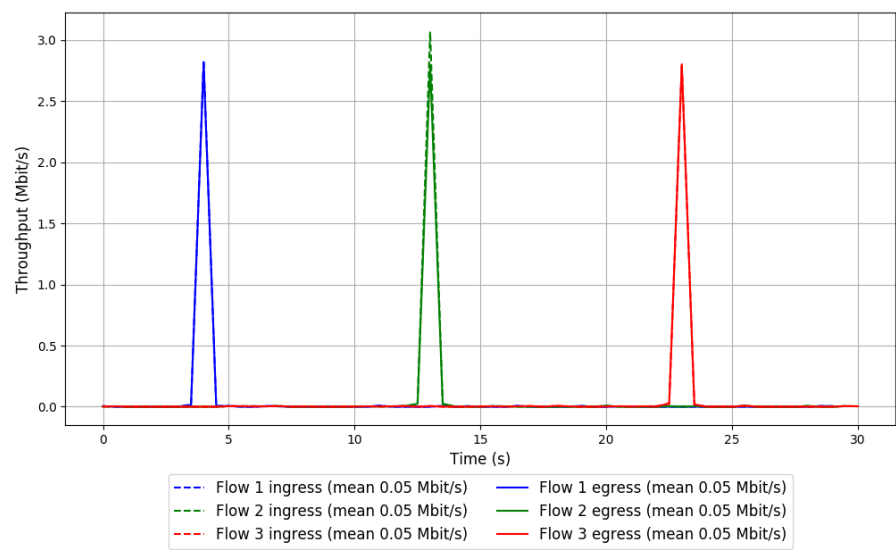
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.551 ms

Loss rate: 0.05%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-27 01:27:57

End at: 2018-01-27 01:28:27

Local clock offset: -3.031 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 5.629 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.666 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.630 ms

Loss rate: 0.00%

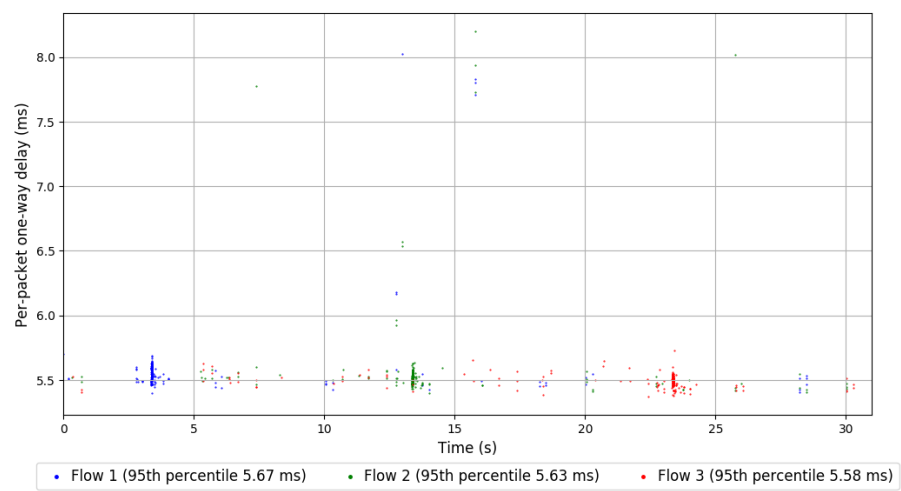
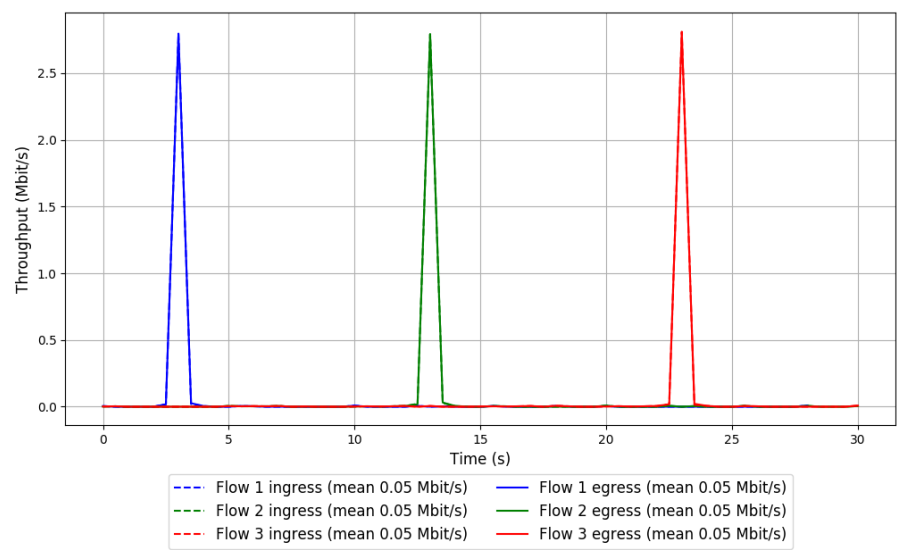
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.578 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-27 02:18:51

End at: 2018-01-27 02:19:21

Local clock offset: -3.215 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 6.583 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.641 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.516 ms

Loss rate: 0.00%

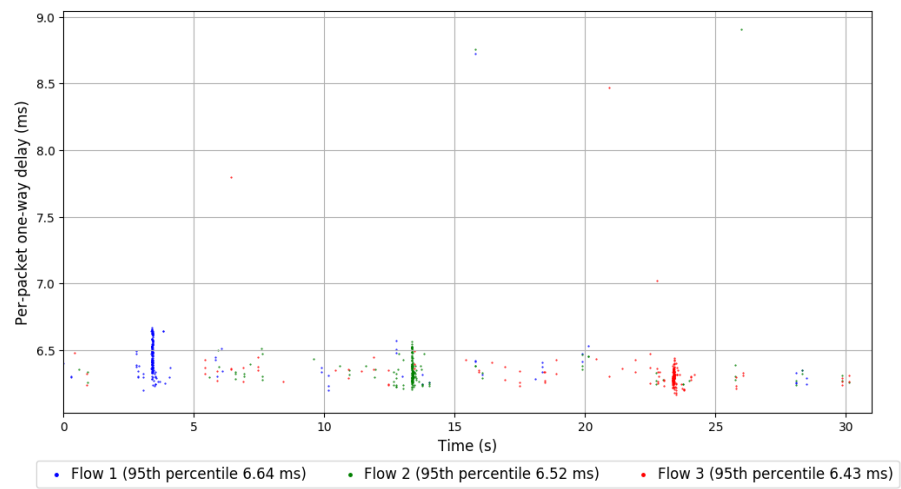
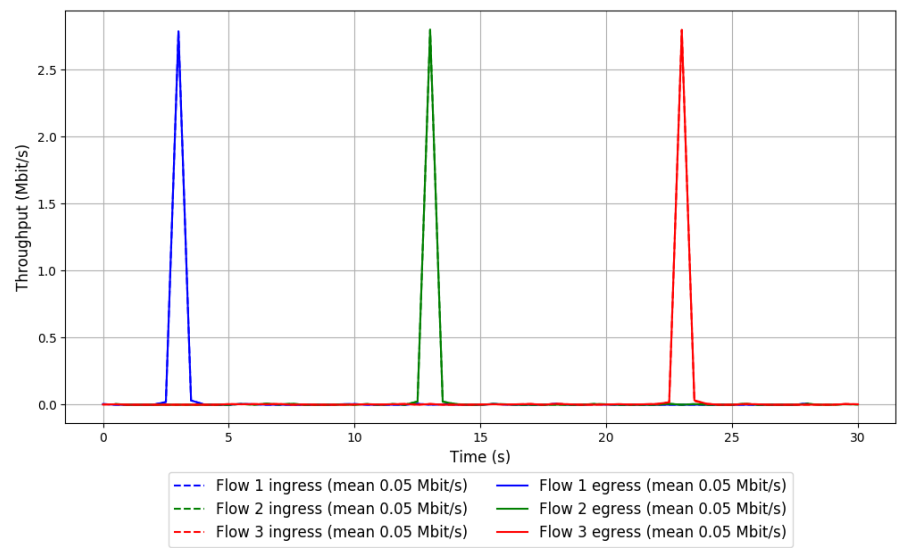
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.430 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-27 03:09:23

End at: 2018-01-27 03:09:53

Local clock offset: -2.122 ms

Remote clock offset: 2.172 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.185 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.00%

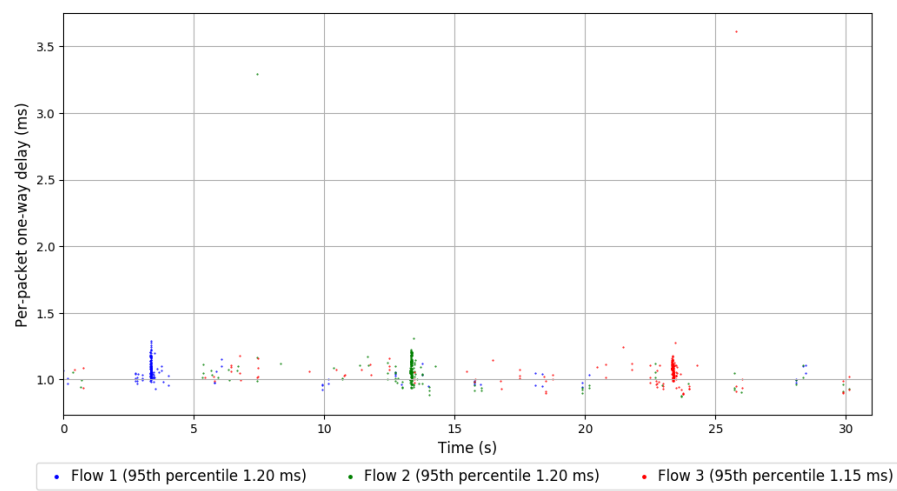
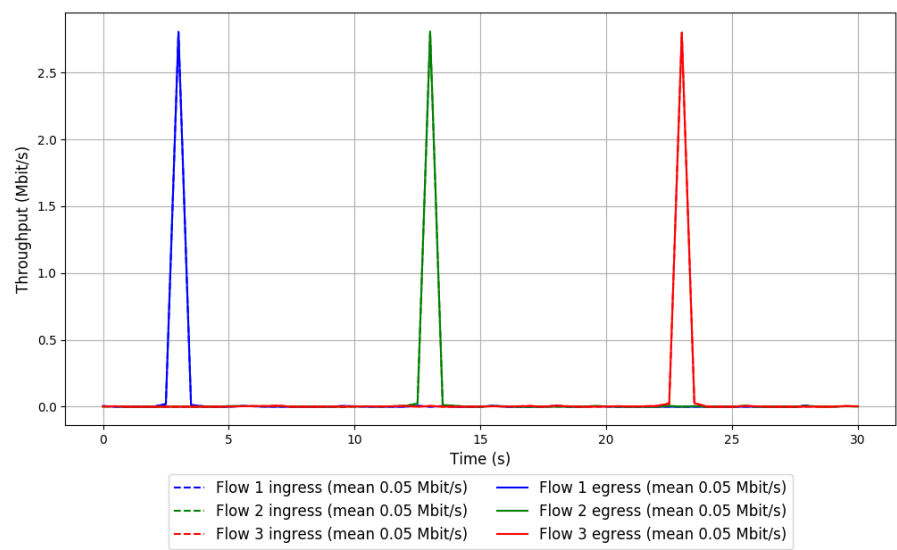
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-27 04:00:09

End at: 2018-01-27 04:00:39

Local clock offset: -3.627 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 6.694 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.658 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.699 ms

Loss rate: 0.00%

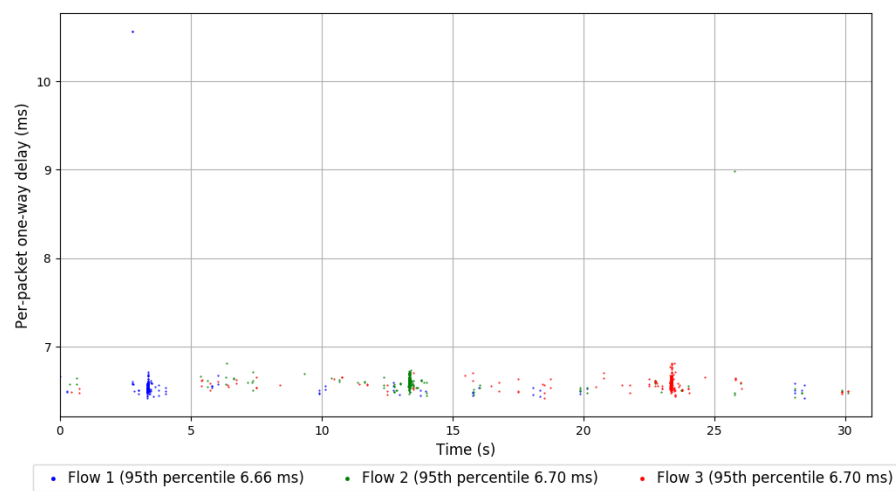
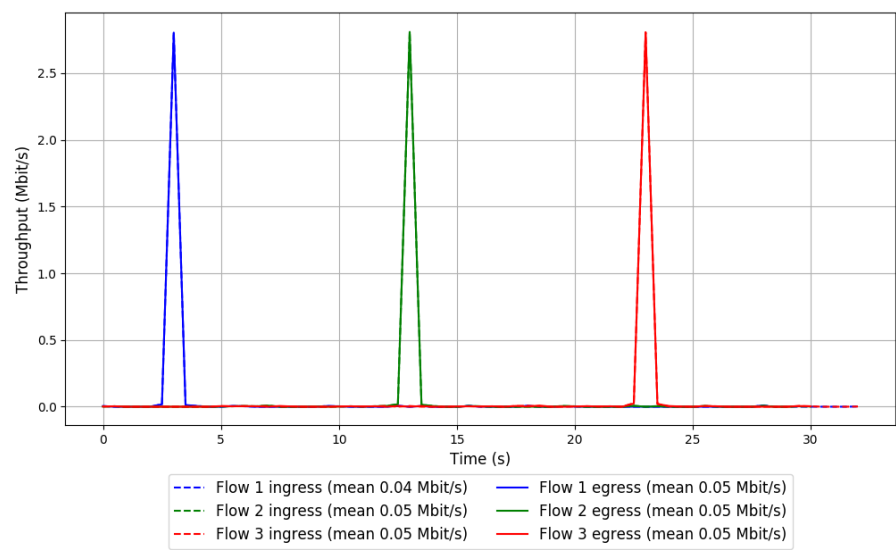
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.703 ms

Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-27 04:50:57

End at: 2018-01-27 04:51:27

Local clock offset: -3.15 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 6.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.245 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.286 ms

Loss rate: 0.00%

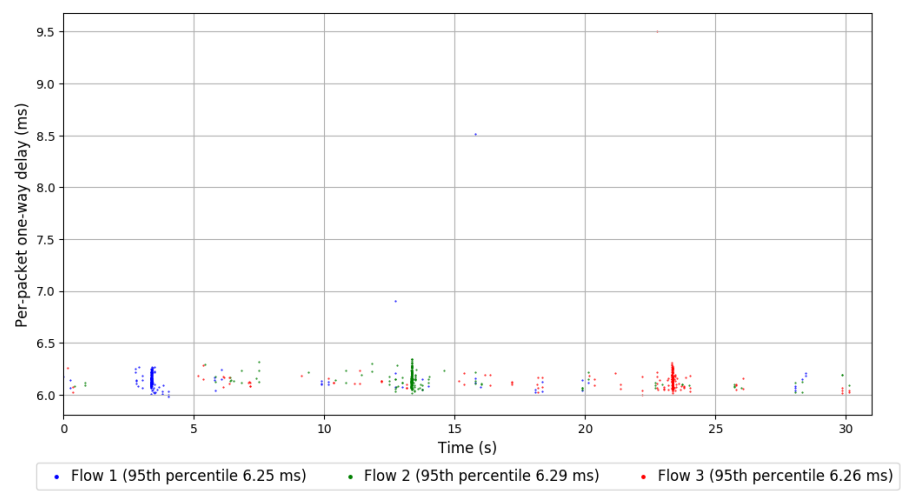
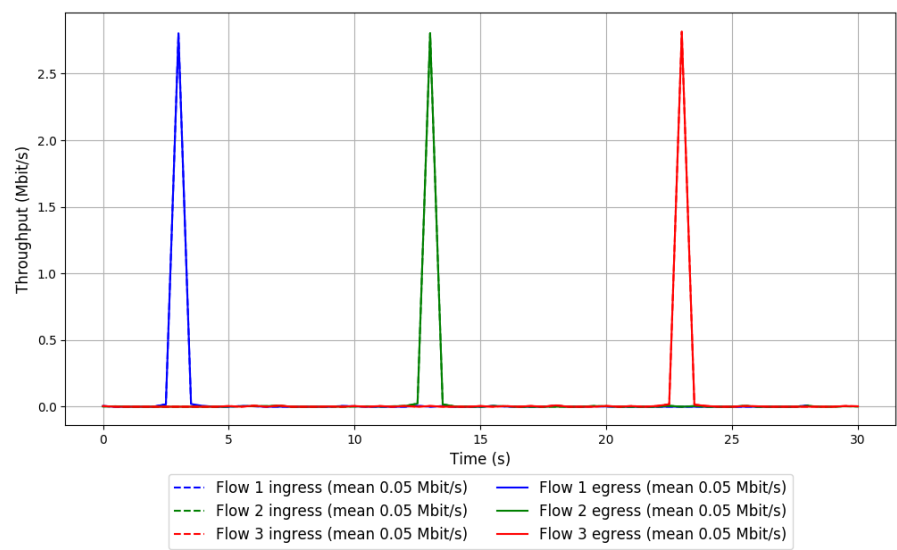
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.256 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-27 05:41:36

End at: 2018-01-27 05:42:06

Local clock offset: -1.79 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 4.674 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.658 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.723 ms

Loss rate: 0.00%

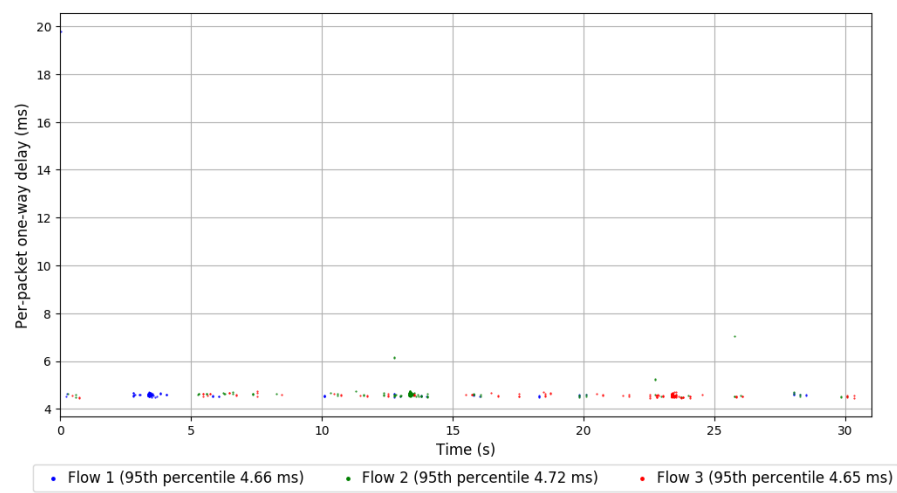
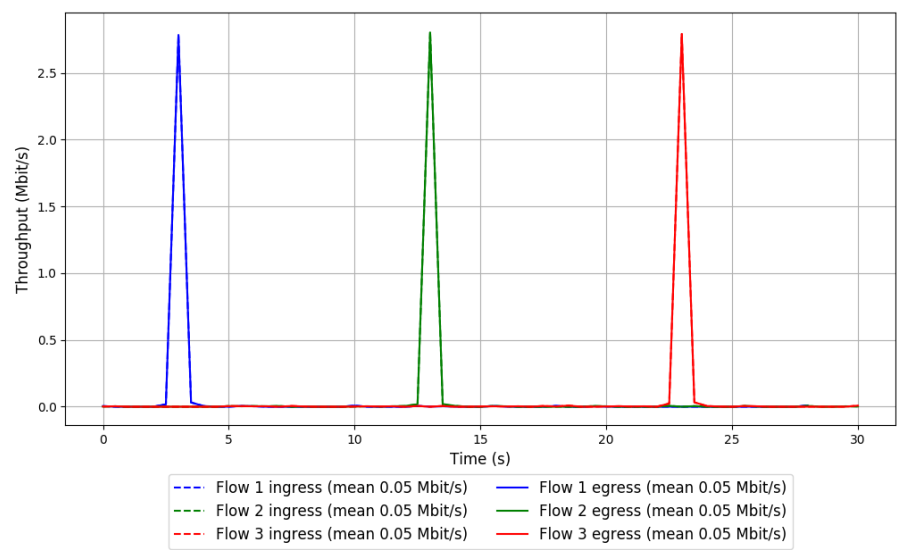
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.648 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-27 06:32:35

End at: 2018-01-27 06:33:05

Local clock offset: -4.093 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 6.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.962 ms

Loss rate: 0.00%

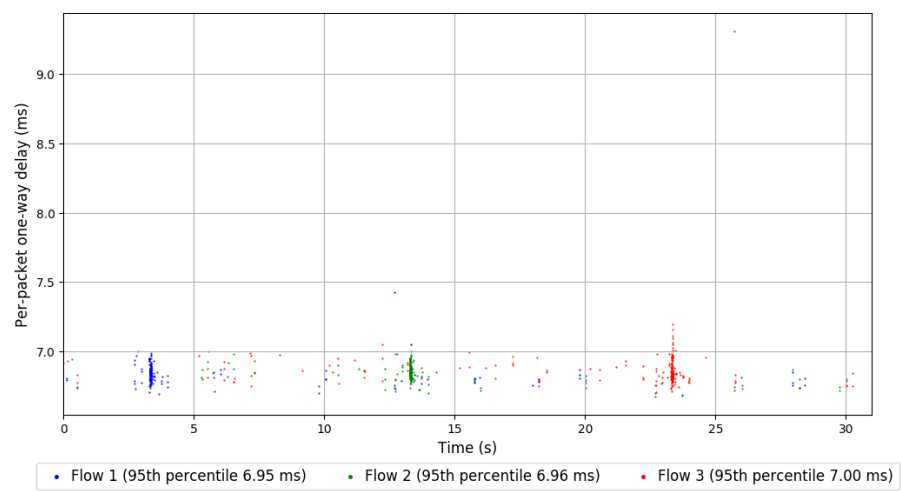
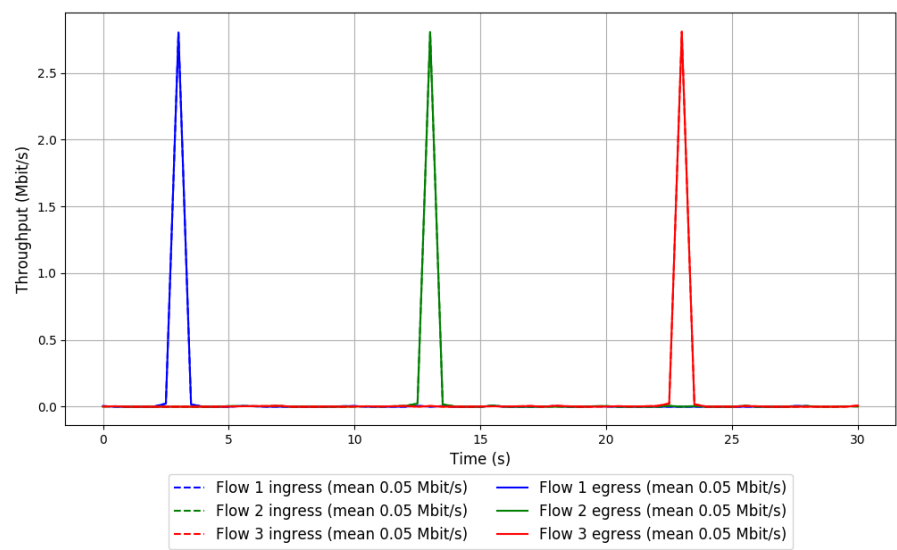
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6.999 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-27 07:23:30

End at: 2018-01-27 07:24:00

Local clock offset: 3.109 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: -0.493 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: -0.112 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: -0.531 ms

Loss rate: 0.00%

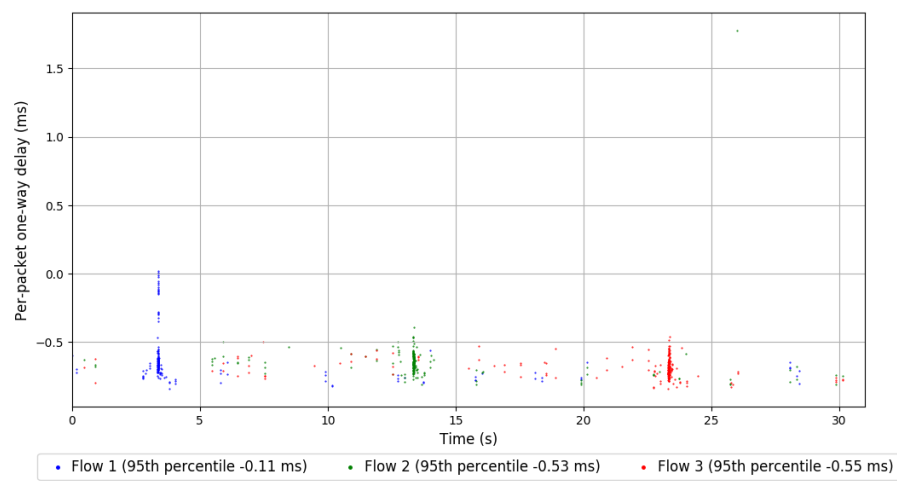
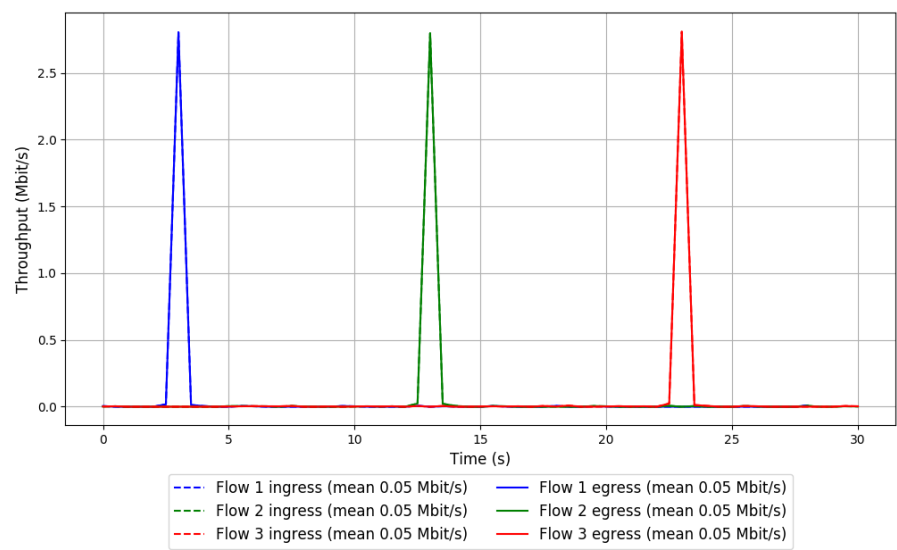
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: -0.551 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-27 08:14:23

End at: 2018-01-27 08:14:53

Local clock offset: 0.191 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 1.902 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.978 ms

Loss rate: 0.00%

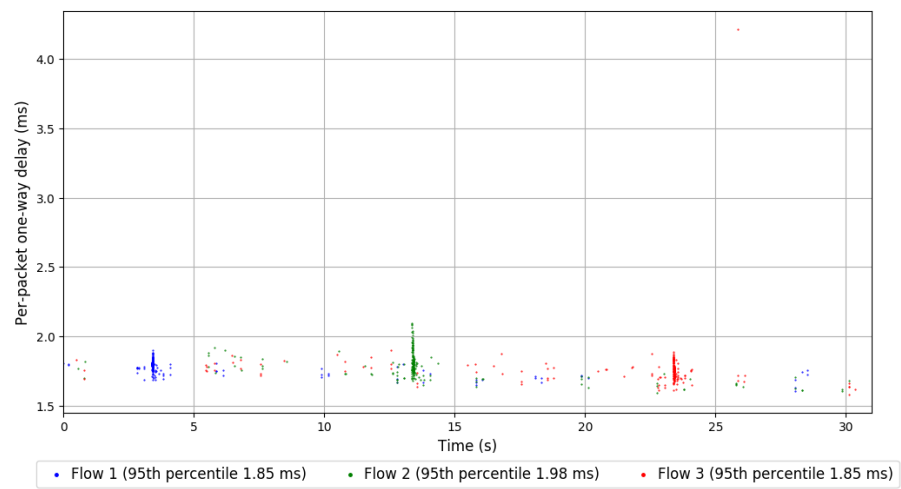
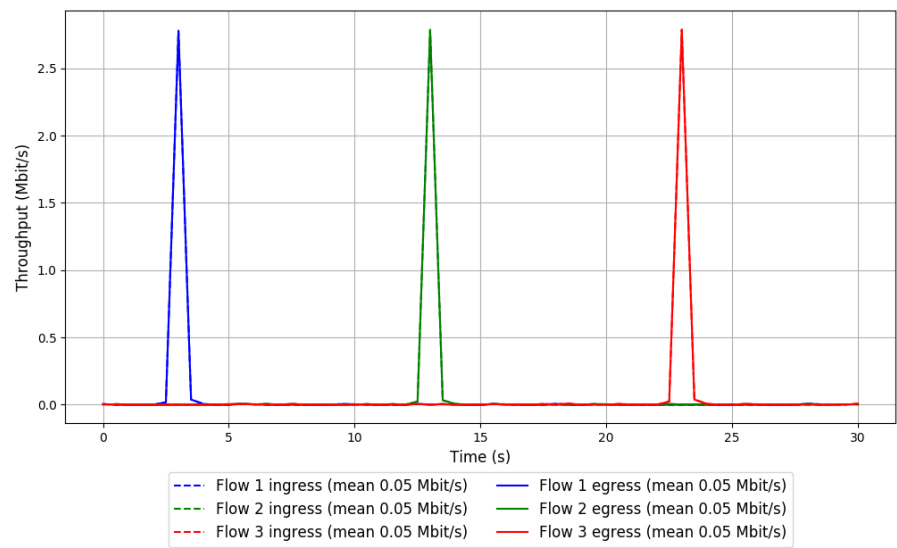
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-27 00:52:35

End at: 2018-01-27 00:53:05

Local clock offset: -3.533 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.40 Mbit/s

95th percentile per-packet one-way delay: 6.925 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 24.13 Mbit/s

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

Loss rate: 1.56%

-- Flow 2:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 6.931 ms

Loss rate: 0.79%

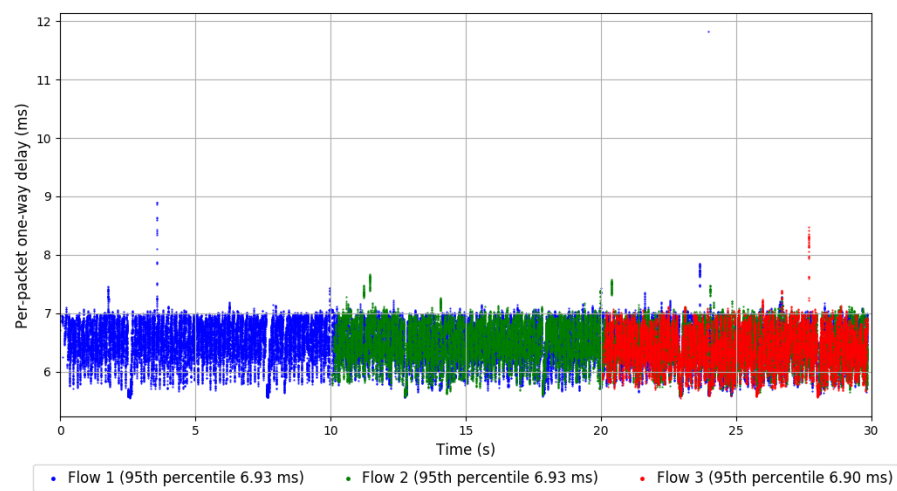
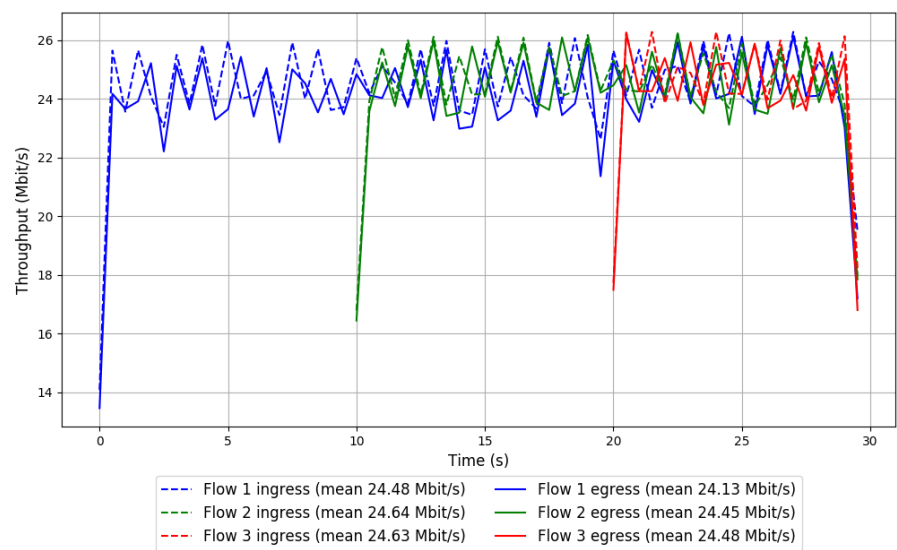
-- Flow 3:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 6.897 ms

Loss rate: 1.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-27 01:43:43

End at: 2018-01-27 01:44:13

Local clock offset: -2.699 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 5.472 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 24.82 Mbit/s

95th percentile per-packet one-way delay: 5.465 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 5.471 ms

Loss rate: 0.10%

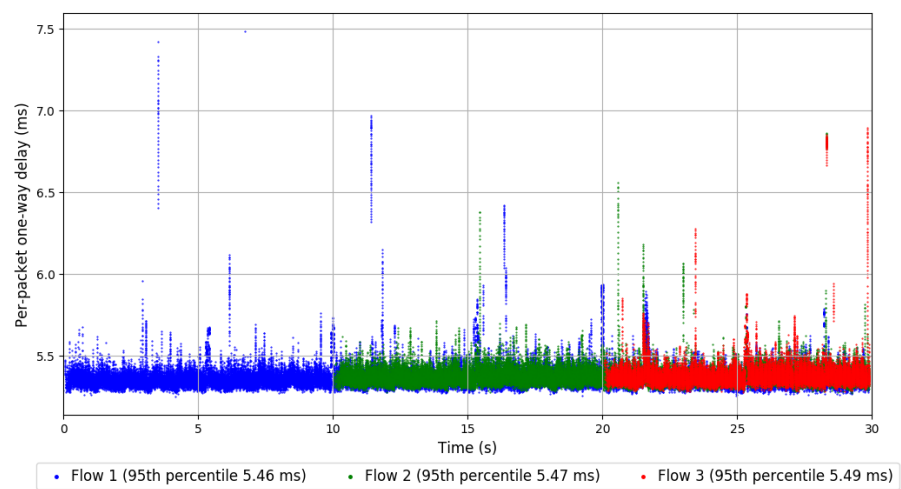
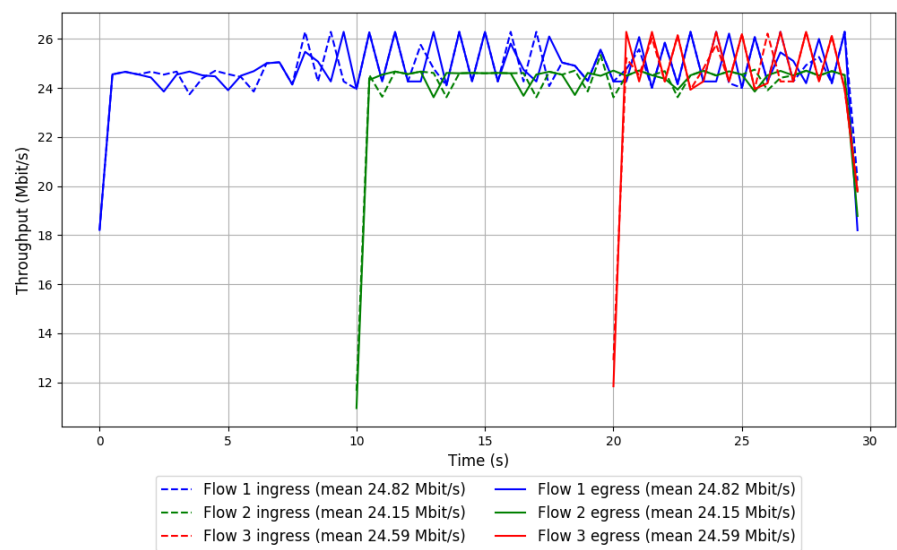
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 5.491 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-27 02:34:41

End at: 2018-01-27 02:35:11

Local clock offset: -3.184 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.39 Mbit/s

95th percentile per-packet one-way delay: 6.535 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 6.547 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 6.520 ms

Loss rate: 0.00%

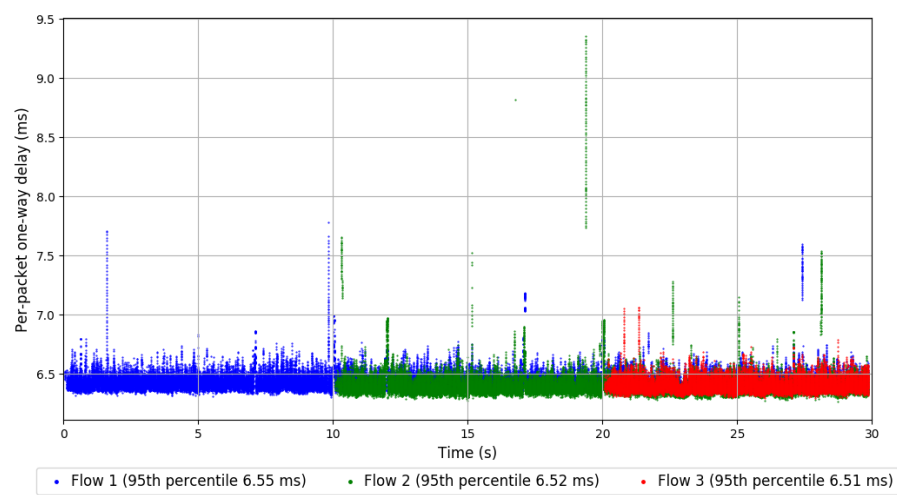
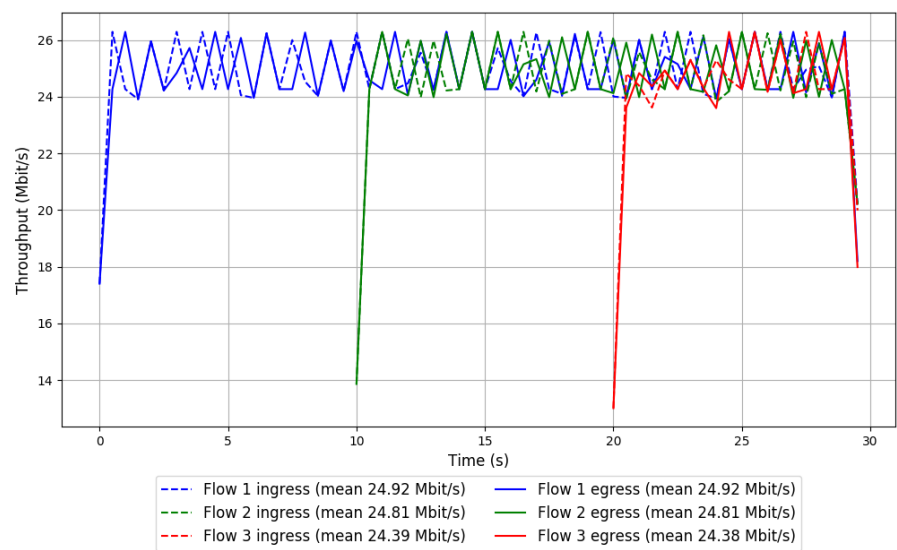
-- Flow 3:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 6.514 ms

Loss rate: 0.42%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-27 03:25:10

End at: 2018-01-27 03:25:40

Local clock offset: -1.665 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 4.959 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 4.978 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 4.949 ms

Loss rate: 0.20%

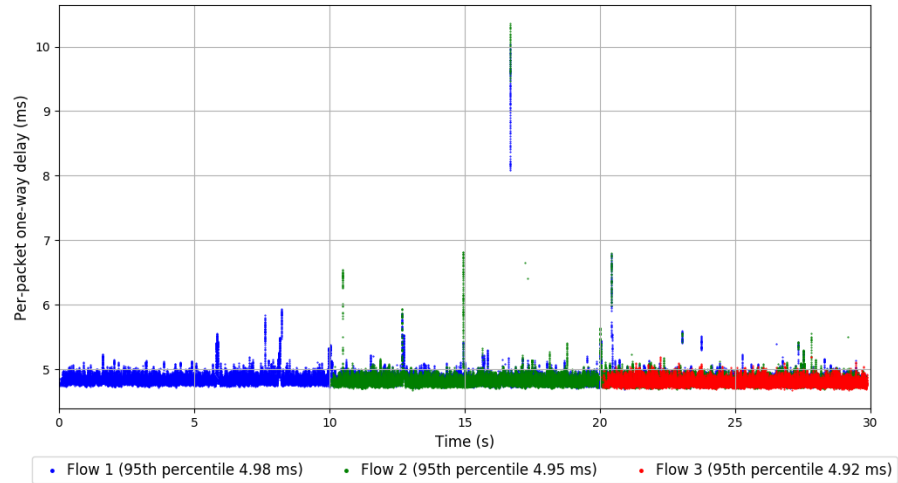
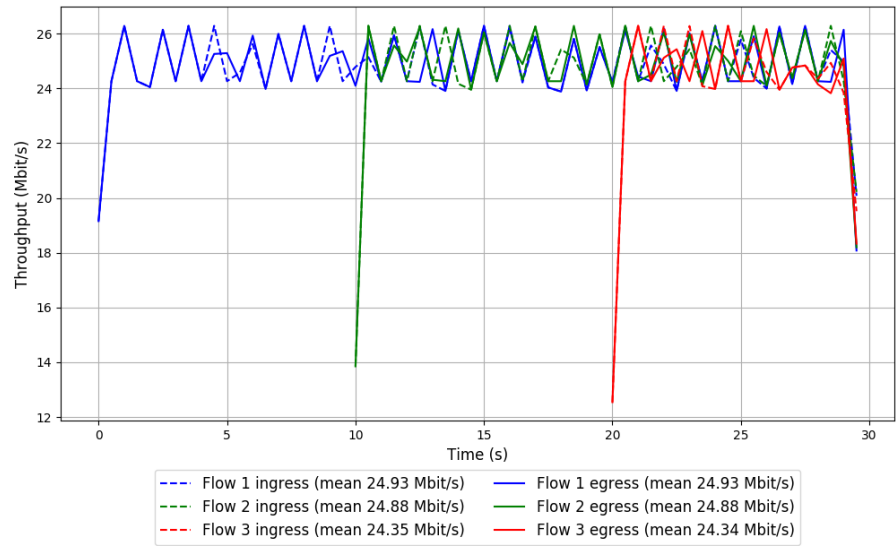
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 4.921 ms

Loss rate: 0.26%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-27 04:16:01

End at: 2018-01-27 04:16:31

Local clock offset: -3.283 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.50 Mbit/s

95th percentile per-packet one-way delay: 6.285 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 6.284 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 6.294 ms

Loss rate: 0.20%

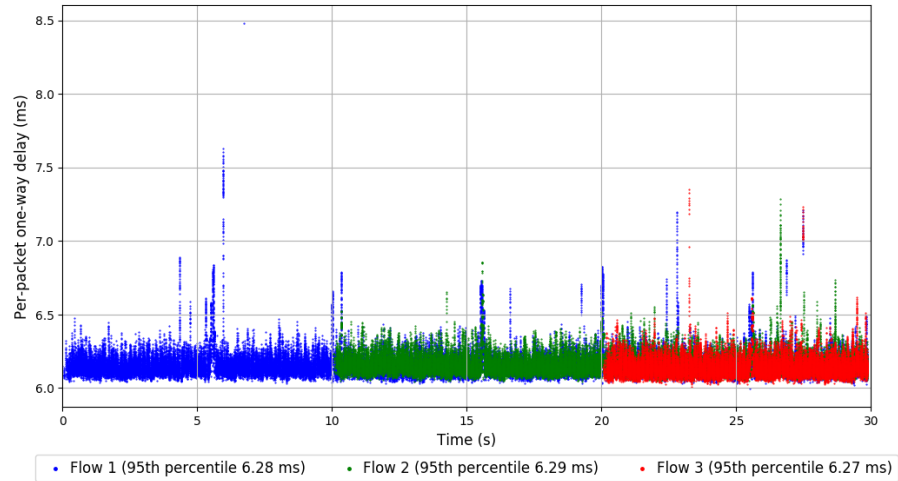
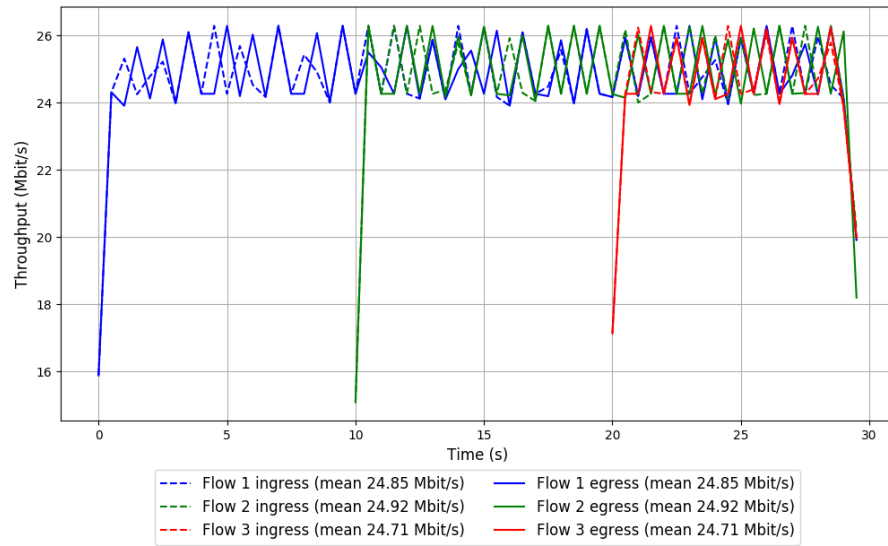
-- Flow 3:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 6.274 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-27 05:06:43

End at: 2018-01-27 05:07:13

Local clock offset: -3.205 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.37 Mbit/s

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

Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 6.248 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 6.235 ms

Loss rate: 0.21%

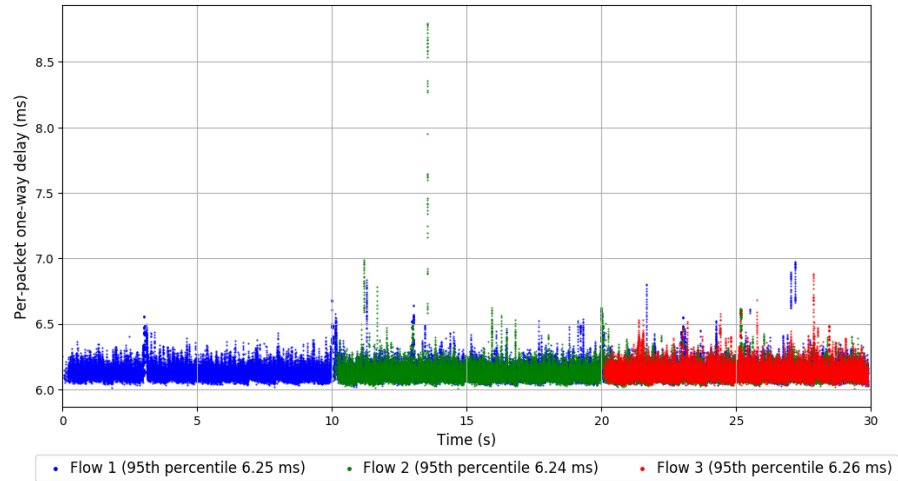
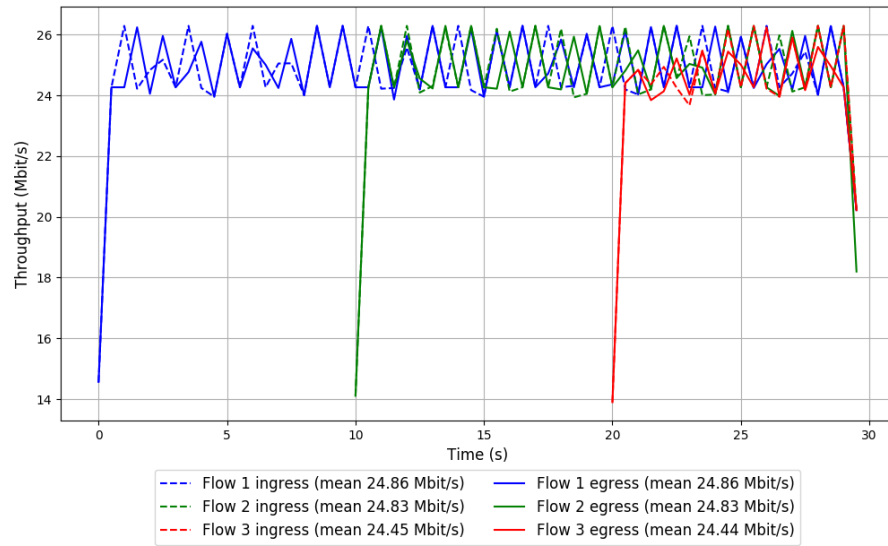
-- Flow 3:

Average throughput: 24.44 Mbit/s

95th percentile per-packet one-way delay: 6.257 ms

Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-27 05:57:28

End at: 2018-01-27 05:57:58

Local clock offset: -2.95 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 5.952 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 24.89 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.18 Mbit/s

95th percentile per-packet one-way delay: 5.930 ms

Loss rate: 0.16%

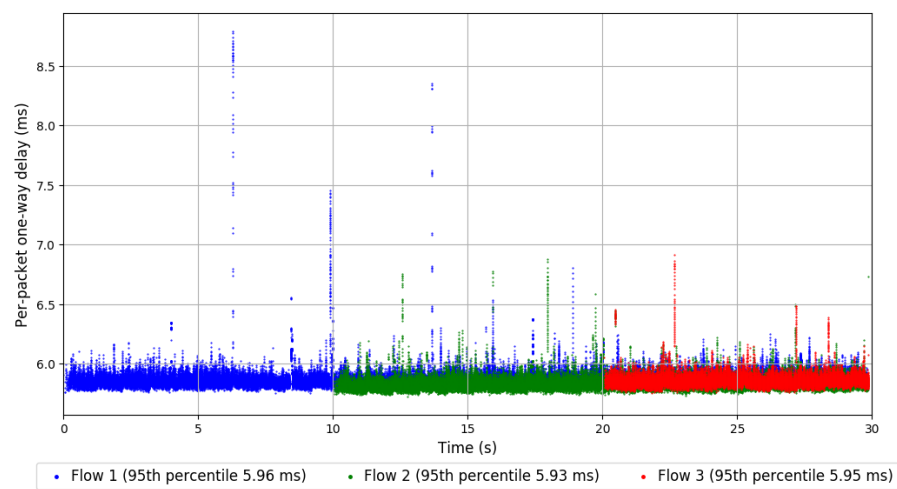
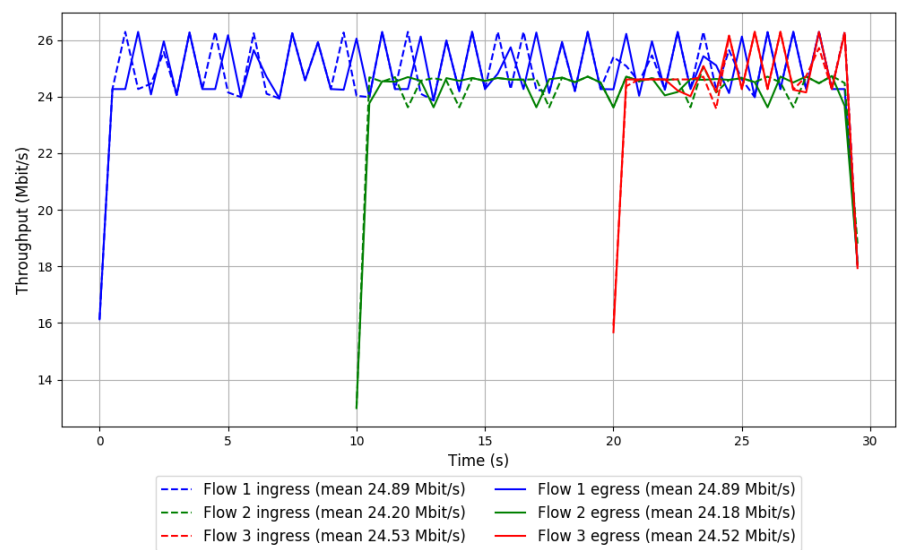
-- Flow 3:

Average throughput: 24.52 Mbit/s

95th percentile per-packet one-way delay: 5.946 ms

Loss rate: 0.03%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-27 06:48:21

End at: 2018-01-27 06:48:51

Local clock offset: -4.449 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.57 Mbit/s

95th percentile per-packet one-way delay: 7.246 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 24.96 Mbit/s

95th percentile per-packet one-way delay: 7.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 7.252 ms

Loss rate: 0.19%

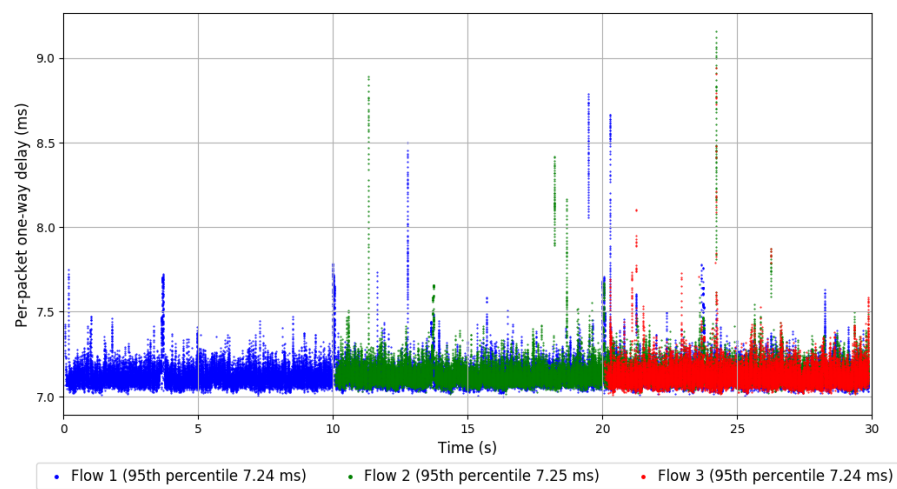
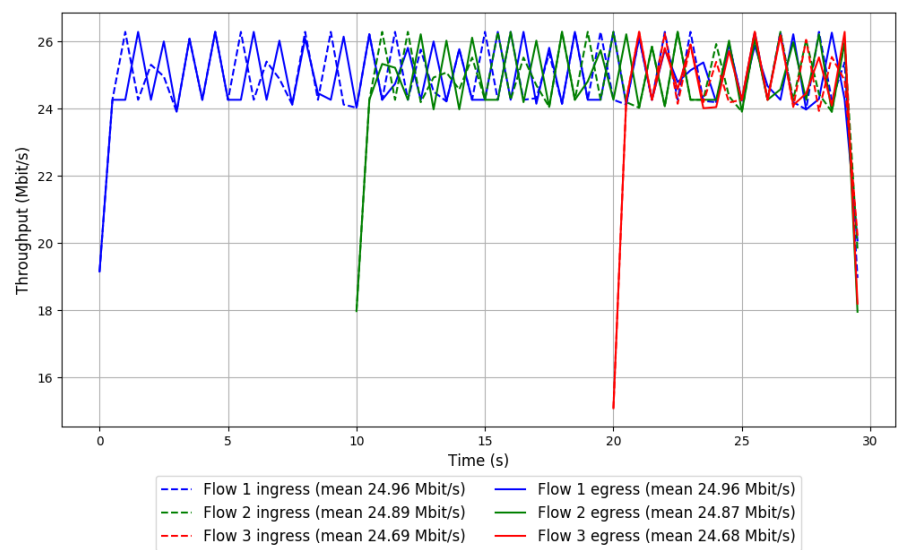
-- Flow 3:

Average throughput: 24.68 Mbit/s

95th percentile per-packet one-way delay: 7.241 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-27 07:39:22

End at: 2018-01-27 07:39:52

Local clock offset: -0.735 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 4.116 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 4.096 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 4.114 ms

Loss rate: 0.02%

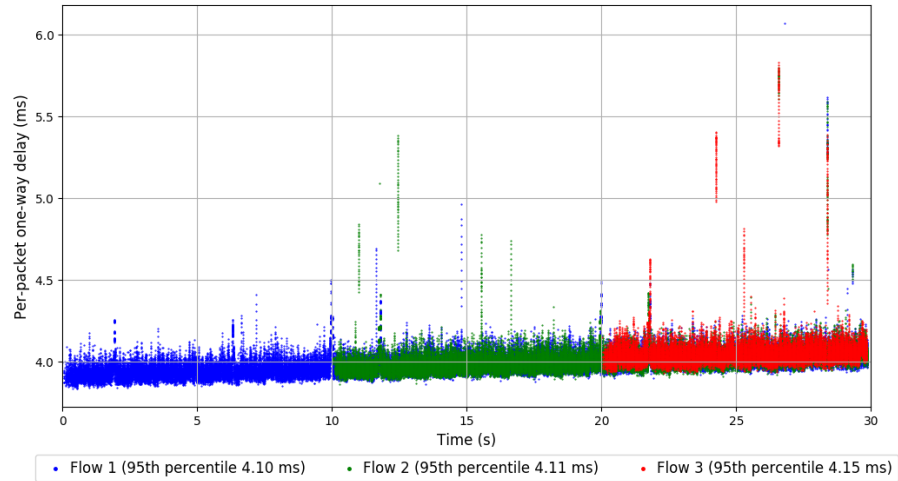
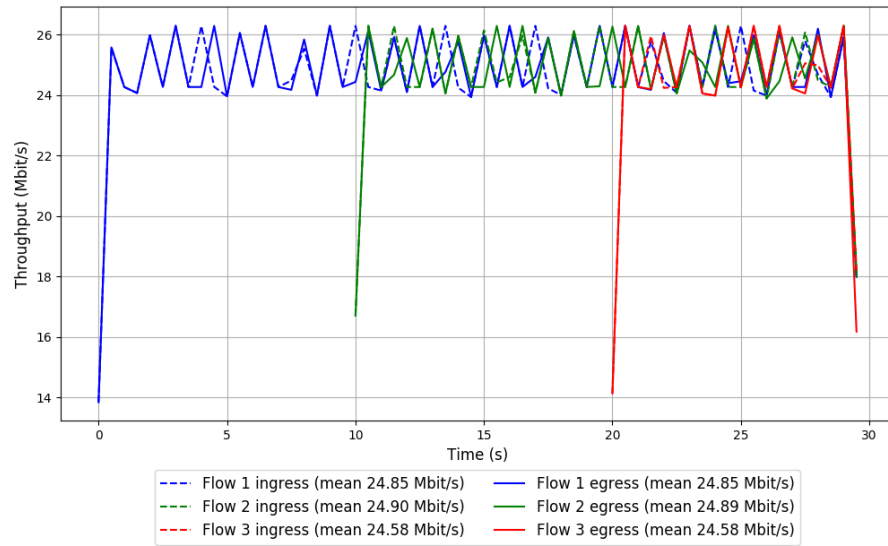
-- Flow 3:

Average throughput: 24.58 Mbit/s

95th percentile per-packet one-way delay: 4.154 ms

Loss rate: 0.42%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-27 08:30:14

End at: 2018-01-27 08:30:44

Local clock offset: 2.59 ms

Below is generated by plot.py at 2018-01-27 18:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: -0.233 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: -0.218 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: -0.262 ms

Loss rate: 0.13%

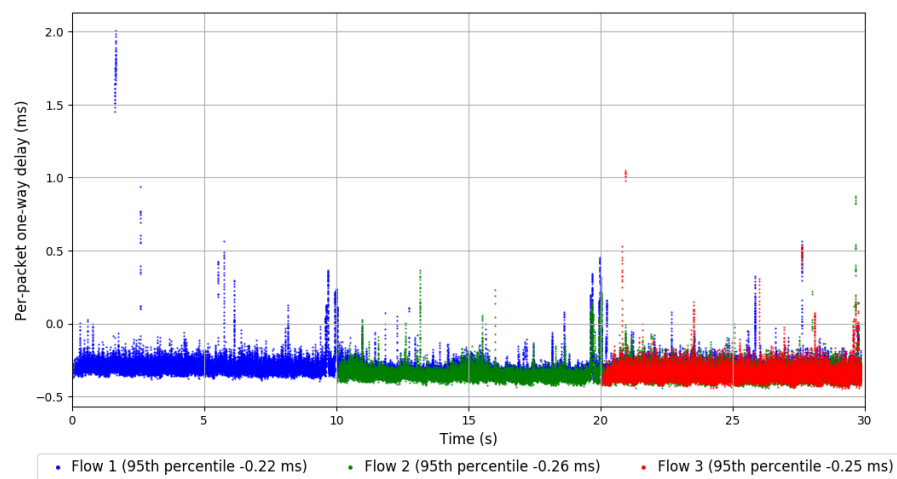
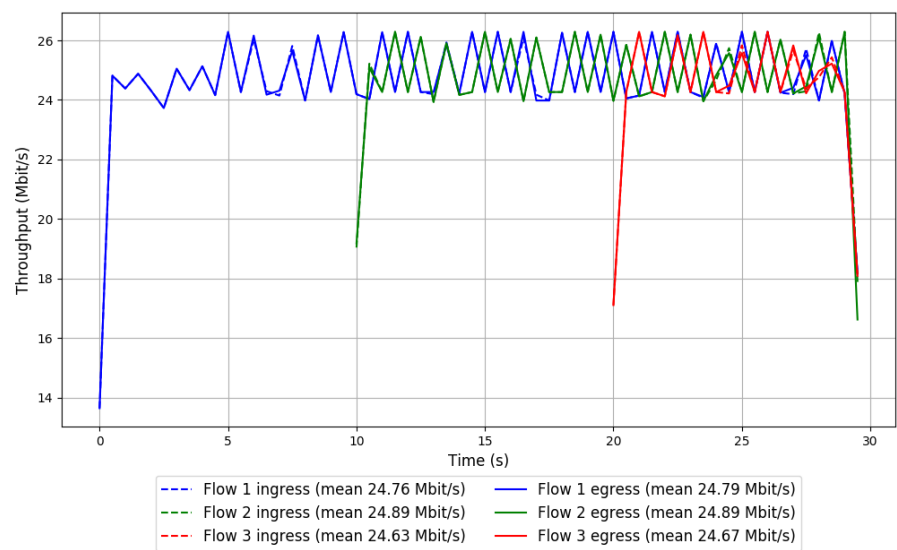
-- Flow 3:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: -0.247 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

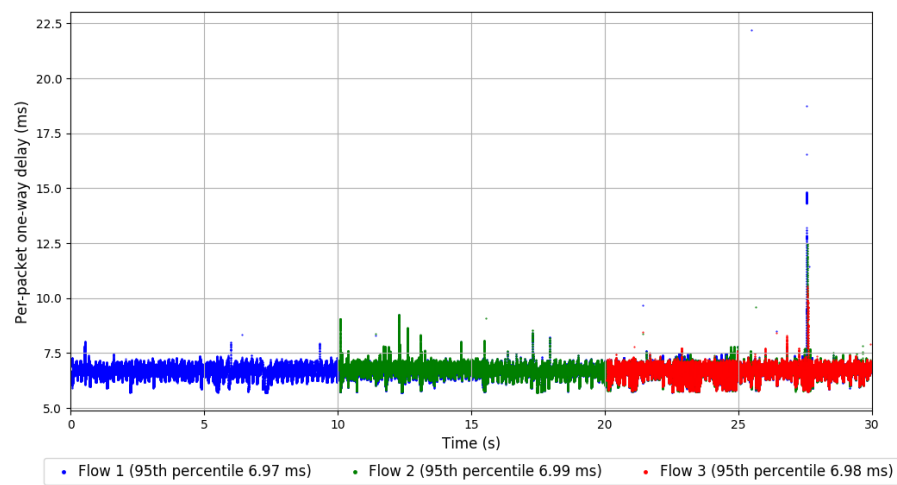
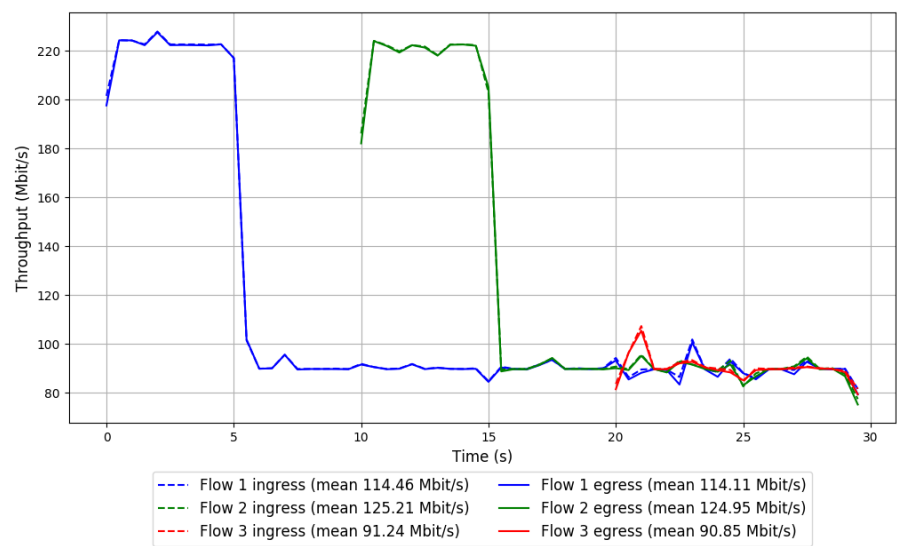


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-27 00:55:34
End at: 2018-01-27 00:56:04
Local clock offset: -3.669 ms

# Below is generated by plot.py at 2018-01-27 18:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 227.22 Mbit/s
95th percentile per-packet one-way delay: 6.979 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 114.11 Mbit/s
95th percentile per-packet one-way delay: 6.972 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 124.95 Mbit/s
95th percentile per-packet one-way delay: 6.989 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 90.85 Mbit/s
95th percentile per-packet one-way delay: 6.976 ms
Loss rate: 0.63%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-27 01:46:40

End at: 2018-01-27 01:47:10

Local clock offset: -2.576 ms

Below is generated by plot.py at 2018-01-27 18:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.25 Mbit/s

95th percentile per-packet one-way delay: 5.703 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 222.57 Mbit/s

95th percentile per-packet one-way delay: 5.561 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 185.55 Mbit/s

95th percentile per-packet one-way delay: 5.912 ms

Loss rate: 0.07%

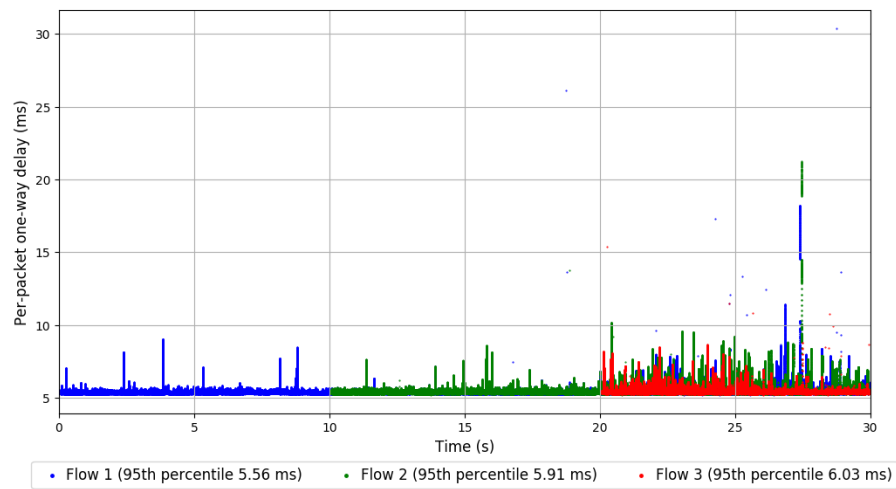
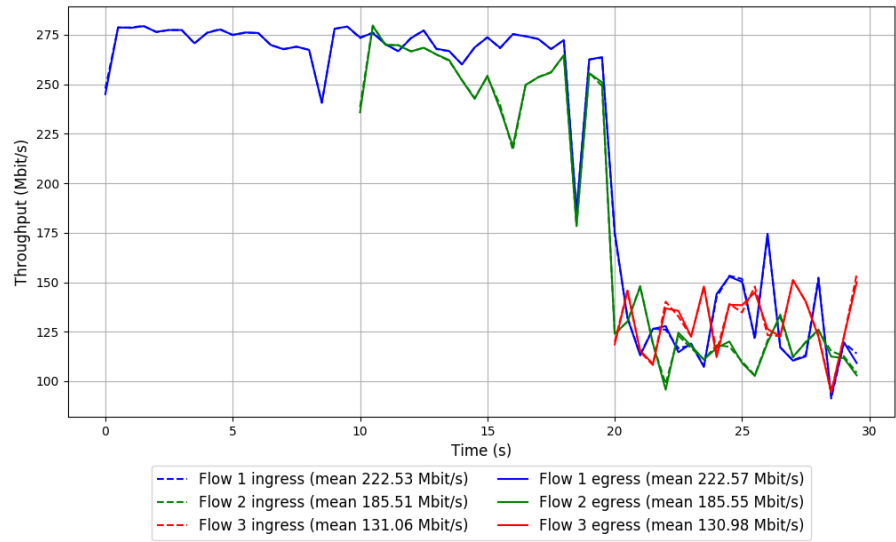
-- Flow 3:

Average throughput: 130.98 Mbit/s

95th percentile per-packet one-way delay: 6.025 ms

Loss rate: 0.20%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-27 02:37:37

End at: 2018-01-27 02:38:07

Local clock offset: -3.187 ms

Below is generated by plot.py at 2018-01-27 18:15:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.03 Mbit/s

95th percentile per-packet one-way delay: 6.698 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 220.12 Mbit/s

95th percentile per-packet one-way delay: 6.570 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 189.56 Mbit/s

95th percentile per-packet one-way delay: 7.060 ms

Loss rate: 0.10%

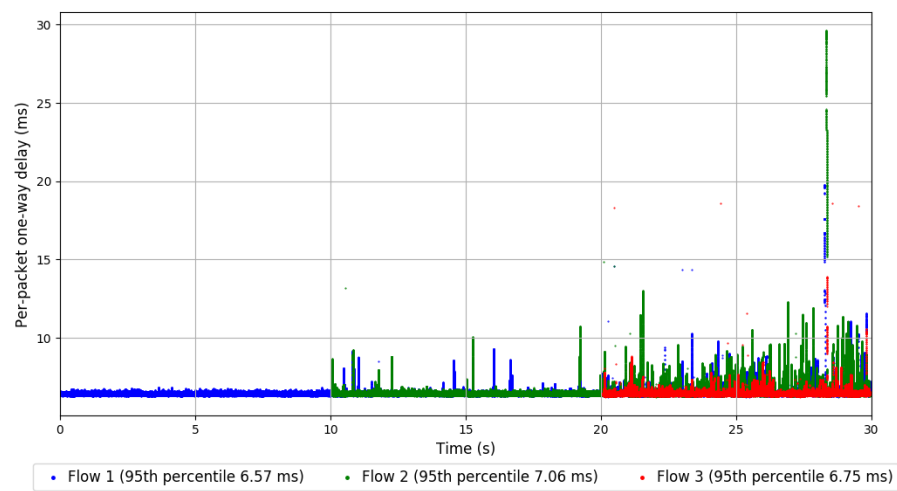
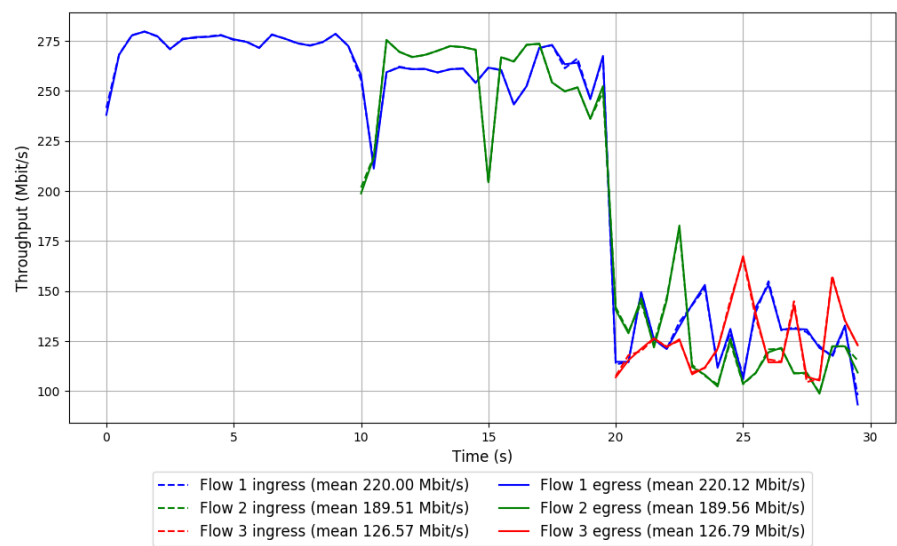
-- Flow 3:

Average throughput: 126.79 Mbit/s

95th percentile per-packet one-way delay: 6.753 ms

Loss rate: 0.10%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-27 03:28:07

End at: 2018-01-27 03:28:37

Local clock offset: -1.619 ms

Below is generated by plot.py at 2018-01-27 18:15:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.75 Mbit/s

95th percentile per-packet one-way delay: 5.026 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 201.15 Mbit/s

95th percentile per-packet one-way delay: 5.026 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 180.94 Mbit/s

95th percentile per-packet one-way delay: 4.932 ms

Loss rate: 0.06%

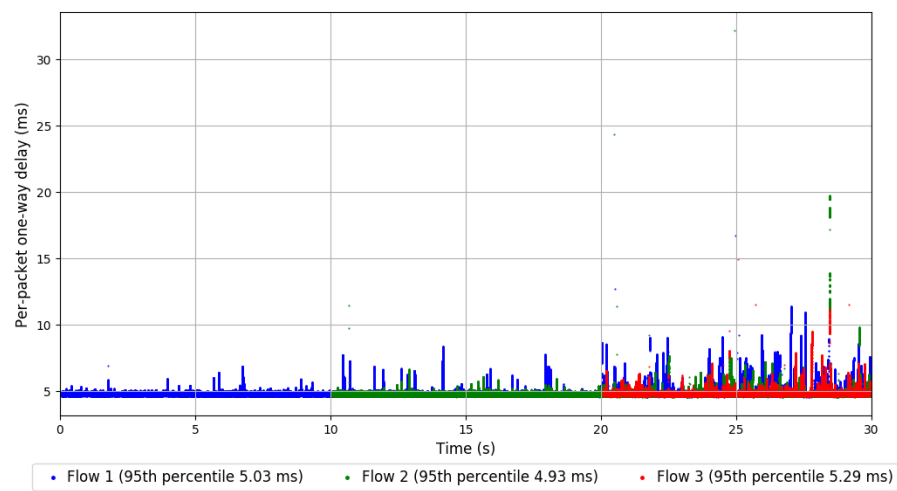
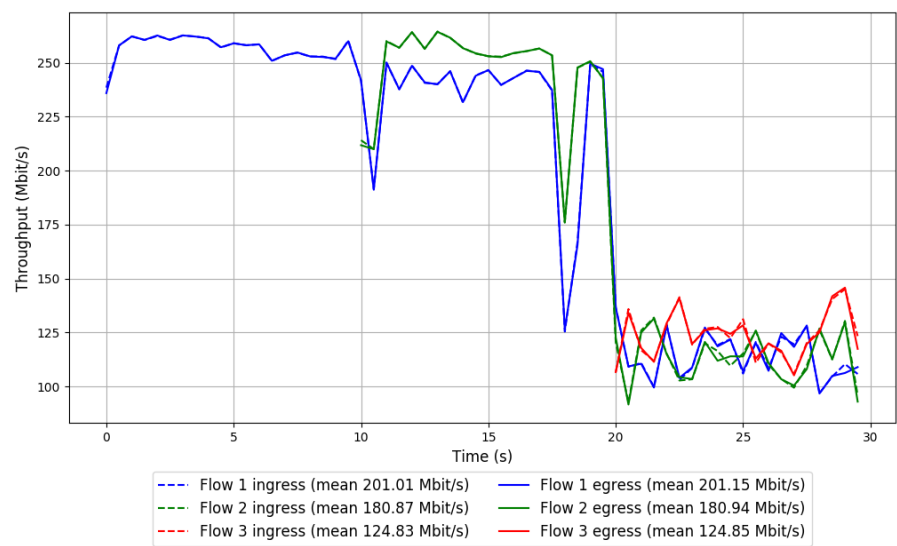
-- Flow 3:

Average throughput: 124.85 Mbit/s

95th percentile per-packet one-way delay: 5.289 ms

Loss rate: 0.24%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-27 04:18:57

End at: 2018-01-27 04:19:27

Local clock offset: -3.349 ms

Below is generated by plot.py at 2018-01-27 18:15:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.71 Mbit/s

95th percentile per-packet one-way delay: 6.372 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 207.41 Mbit/s

95th percentile per-packet one-way delay: 6.268 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 179.66 Mbit/s

95th percentile per-packet one-way delay: 6.761 ms

Loss rate: 0.06%

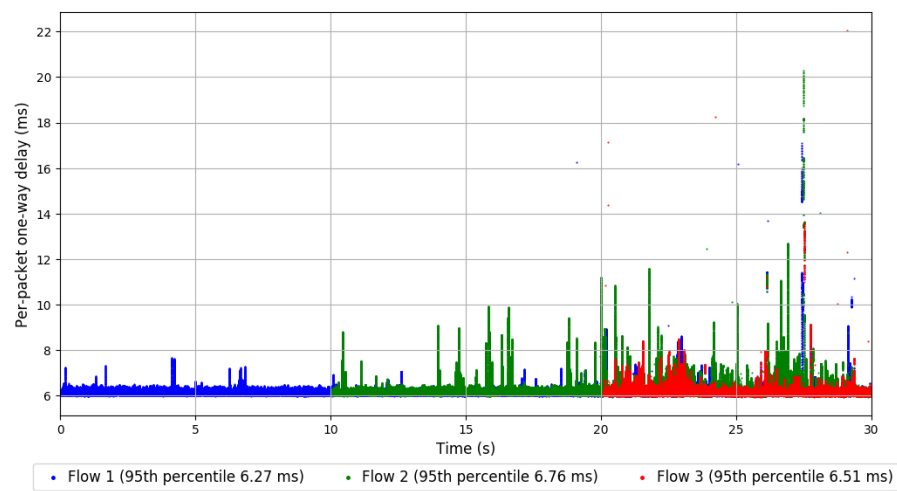
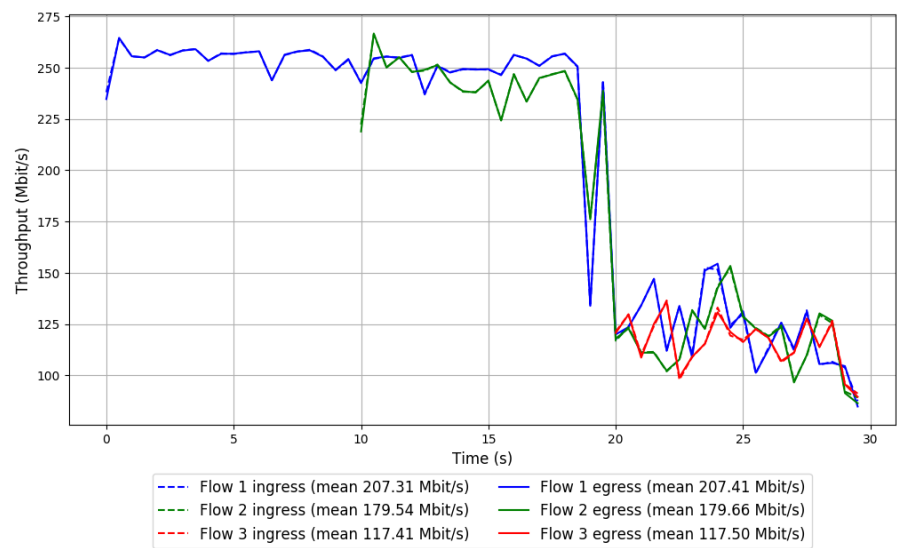
-- Flow 3:

Average throughput: 117.50 Mbit/s

95th percentile per-packet one-way delay: 6.509 ms

Loss rate: 0.16%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-27 05:09:39

End at: 2018-01-27 05:10:09

Local clock offset: -3.126 ms

Below is generated by plot.py at 2018-01-27 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.79 Mbit/s

95th percentile per-packet one-way delay: 6.499 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 217.19 Mbit/s

95th percentile per-packet one-way delay: 6.381 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 195.40 Mbit/s

95th percentile per-packet one-way delay: 6.612 ms

Loss rate: 0.10%

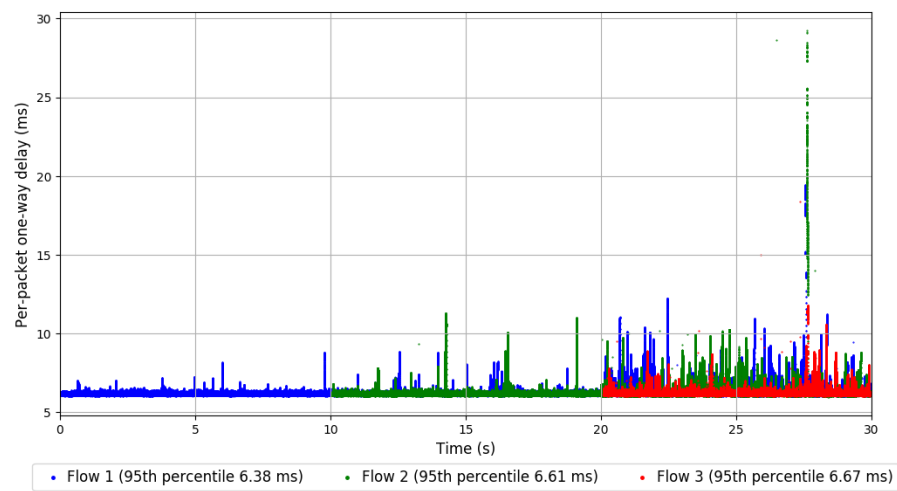
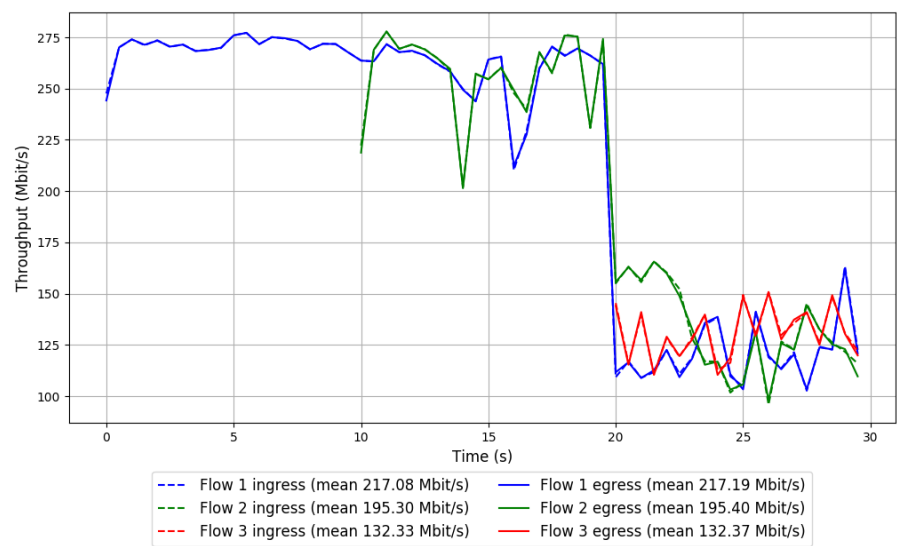
-- Flow 3:

Average throughput: 132.37 Mbit/s

95th percentile per-packet one-way delay: 6.665 ms

Loss rate: 0.15%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-27 06:00:25

End at: 2018-01-27 06:00:55

Local clock offset: -3.143 ms

Below is generated by plot.py at 2018-01-27 18:16:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.65 Mbit/s

95th percentile per-packet one-way delay: 6.283 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 209.18 Mbit/s

95th percentile per-packet one-way delay: 6.199 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 184.83 Mbit/s

95th percentile per-packet one-way delay: 6.311 ms

Loss rate: 0.07%

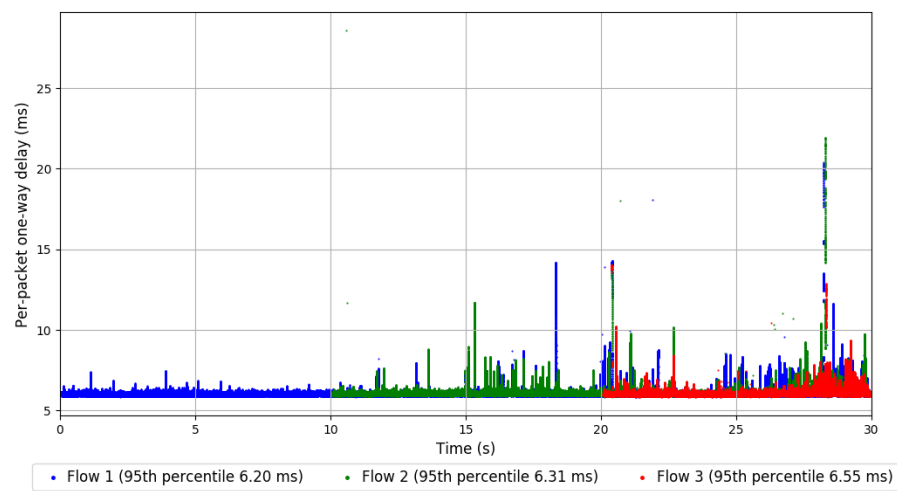
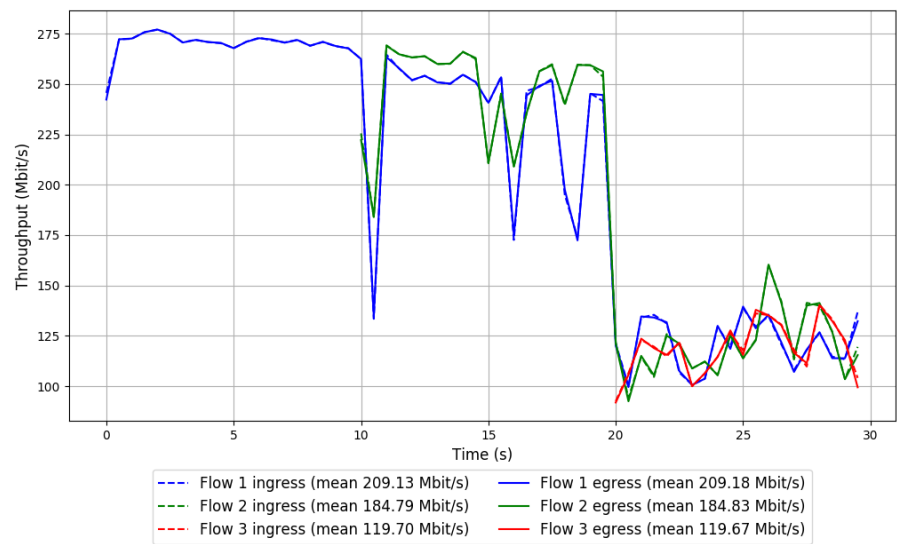
-- Flow 3:

Average throughput: 119.67 Mbit/s

95th percentile per-packet one-way delay: 6.546 ms

Loss rate: 0.22%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-27 06:51:17

End at: 2018-01-27 06:51:47

Local clock offset: -4.602 ms

Below is generated by plot.py at 2018-01-27 18:20:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.32 Mbit/s

95th percentile per-packet one-way delay: 7.340 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 222.74 Mbit/s

95th percentile per-packet one-way delay: 7.301 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 201.83 Mbit/s

95th percentile per-packet one-way delay: 7.299 ms

Loss rate: 0.05%

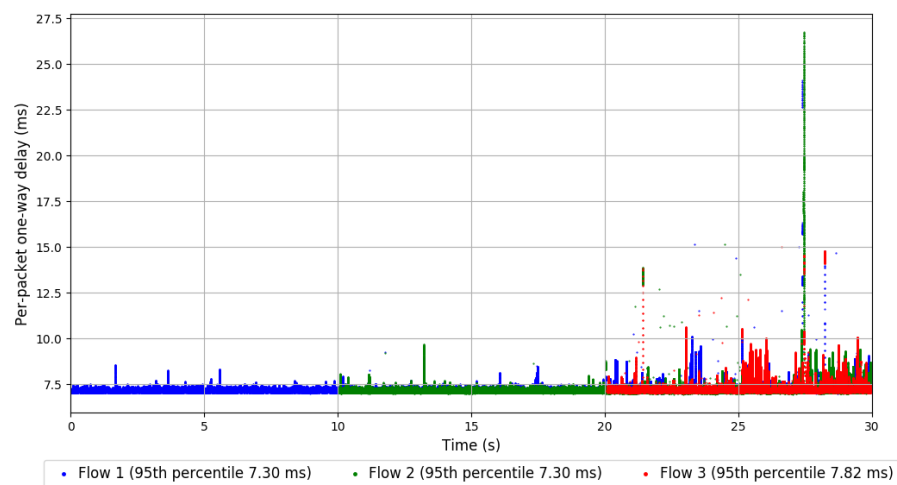
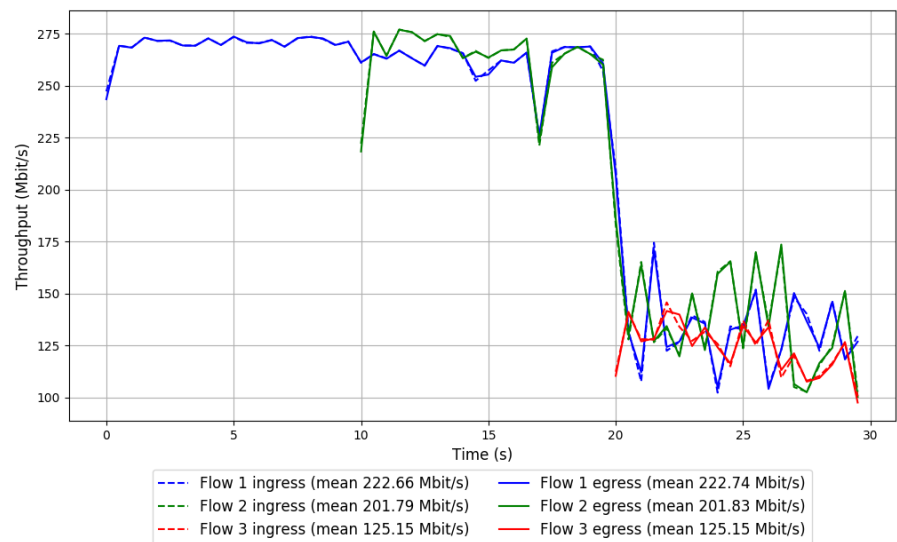
-- Flow 3:

Average throughput: 125.15 Mbit/s

95th percentile per-packet one-way delay: 7.820 ms

Loss rate: 0.22%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-27 07:42:19

End at: 2018-01-27 07:42:49

Local clock offset: -1.477 ms

Below is generated by plot.py at 2018-01-27 18:20:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.07 Mbit/s

95th percentile per-packet one-way delay: 4.803 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 217.18 Mbit/s

95th percentile per-packet one-way delay: 4.609 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 185.15 Mbit/s

95th percentile per-packet one-way delay: 5.018 ms

Loss rate: 0.05%

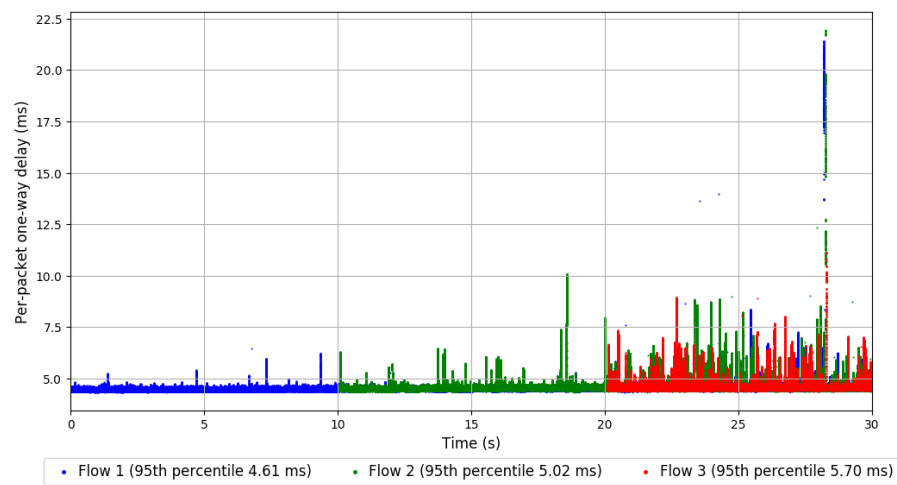
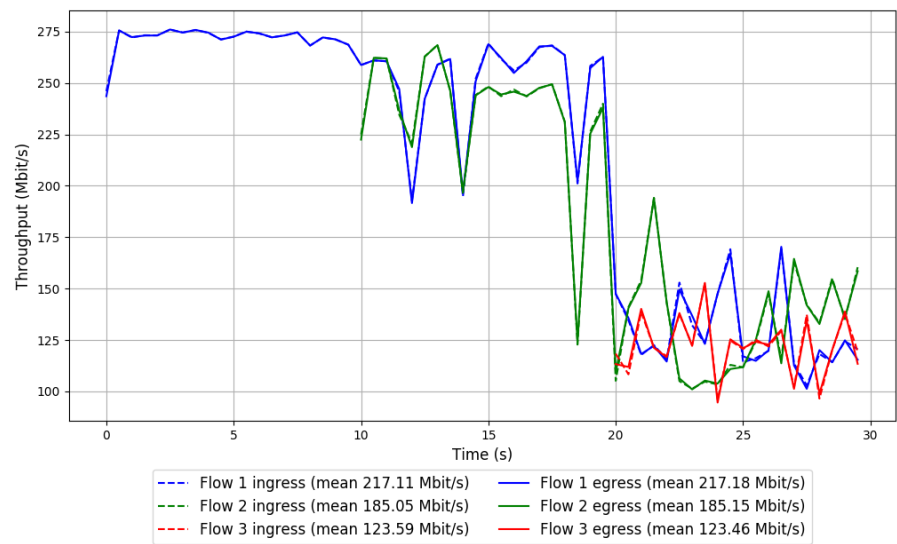
-- Flow 3:

Average throughput: 123.46 Mbit/s

95th percentile per-packet one-way delay: 5.697 ms

Loss rate: 0.26%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-27 08:33:10

End at: 2018-01-27 08:33:40

Local clock offset: 2.87 ms

Below is generated by plot.py at 2018-01-27 18:24:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.89 Mbit/s

95th percentile per-packet one-way delay: -0.262 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 215.32 Mbit/s

95th percentile per-packet one-way delay: -0.380 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 192.38 Mbit/s

95th percentile per-packet one-way delay: -0.135 ms

Loss rate: 0.13%

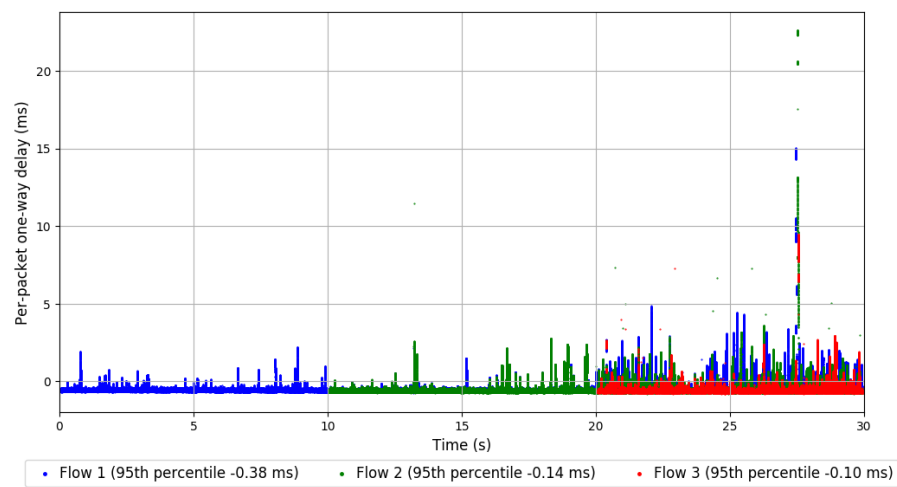
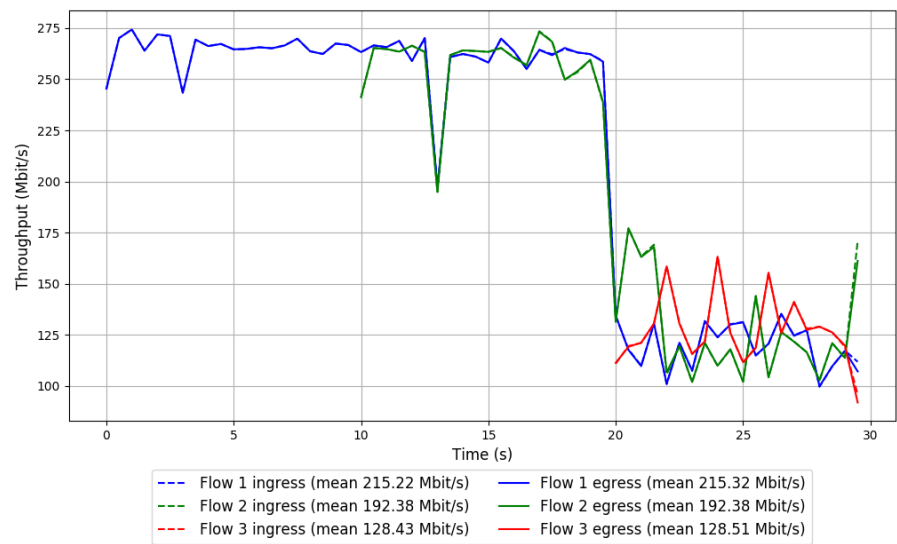
-- Flow 3:

Average throughput: 128.51 Mbit/s

95th percentile per-packet one-way delay: -0.099 ms

Loss rate: 0.13%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-27 00:49:36

End at: 2018-01-27 00:50:06

Local clock offset: -3.308 ms

Below is generated by plot.py at 2018-01-27 18:24:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.63 Mbit/s

95th percentile per-packet one-way delay: 6.712 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 6.725 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 6.698 ms

Loss rate: 0.50%

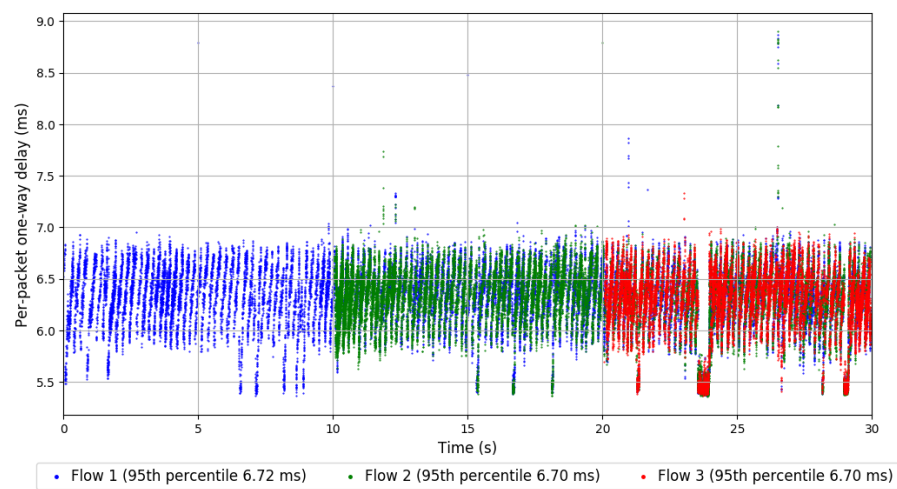
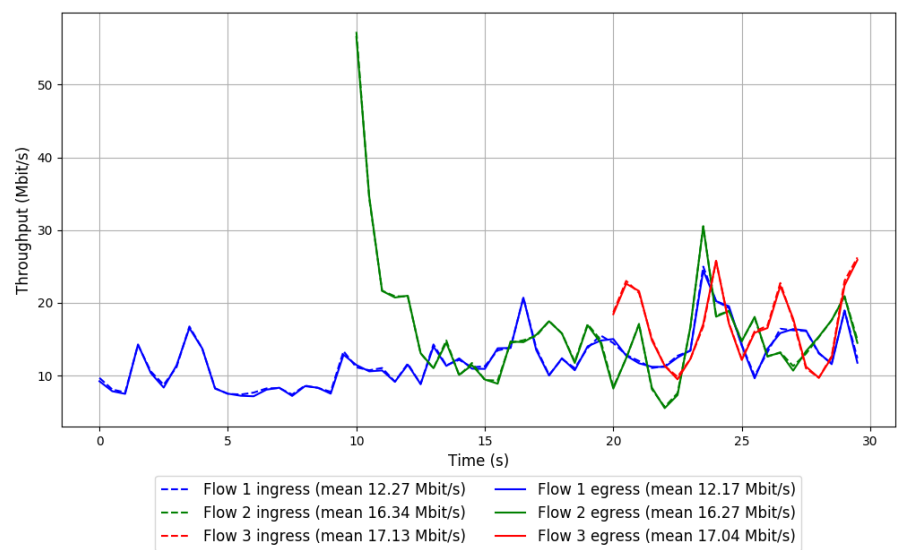
-- Flow 3:

Average throughput: 17.04 Mbit/s

95th percentile per-packet one-way delay: 6.704 ms

Loss rate: 0.69%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-27 01:40:27

End at: 2018-01-27 01:40:57

Local clock offset: -2.736 ms

Below is generated by plot.py at 2018-01-27 18:24:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 563.73 Mbit/s

95th percentile per-packet one-way delay: 6.101 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 291.20 Mbit/s

95th percentile per-packet one-way delay: 6.007 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 250.85 Mbit/s

95th percentile per-packet one-way delay: 6.146 ms

Loss rate: 0.10%

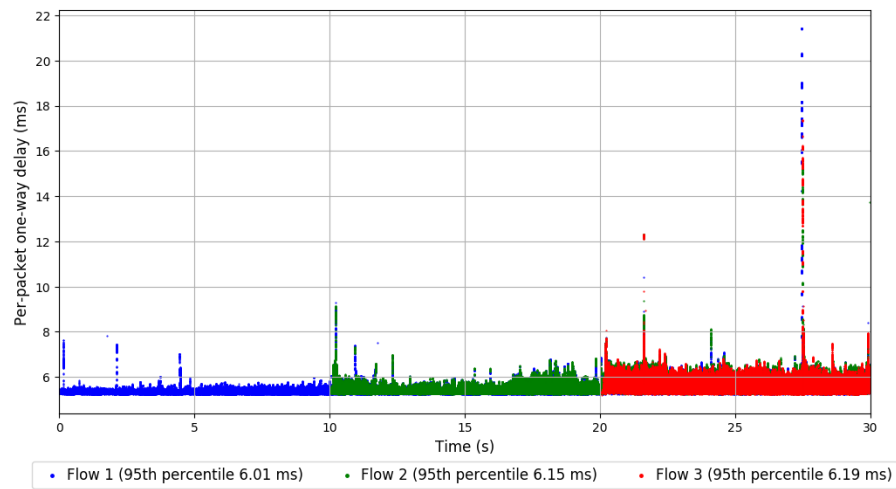
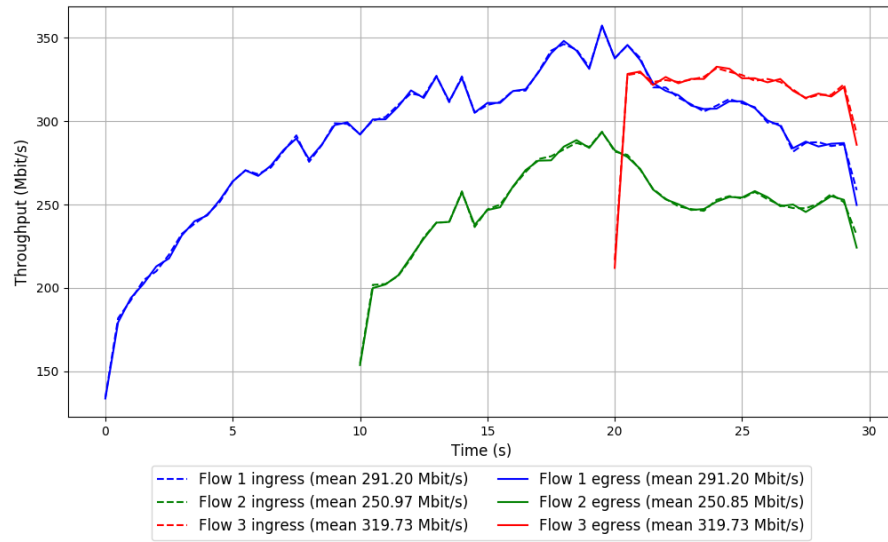
-- Flow 3:

Average throughput: 319.73 Mbit/s

95th percentile per-packet one-way delay: 6.188 ms

Loss rate: 0.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-27 02:31:27

End at: 2018-01-27 02:31:57

Local clock offset: -3.159 ms

Below is generated by plot.py at 2018-01-27 18:24:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.22 Mbit/s

95th percentile per-packet one-way delay: 6.974 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 302.05 Mbit/s

95th percentile per-packet one-way delay: 6.930 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 143.13 Mbit/s

95th percentile per-packet one-way delay: 6.935 ms

Loss rate: 0.05%

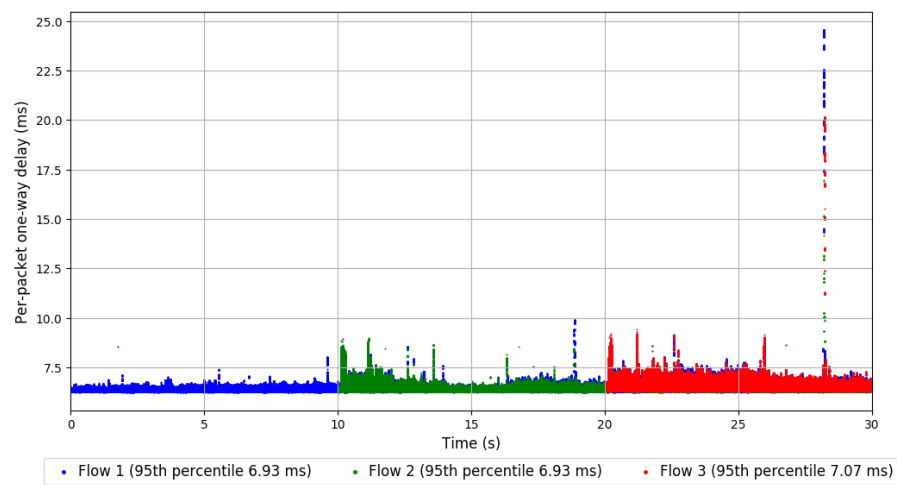
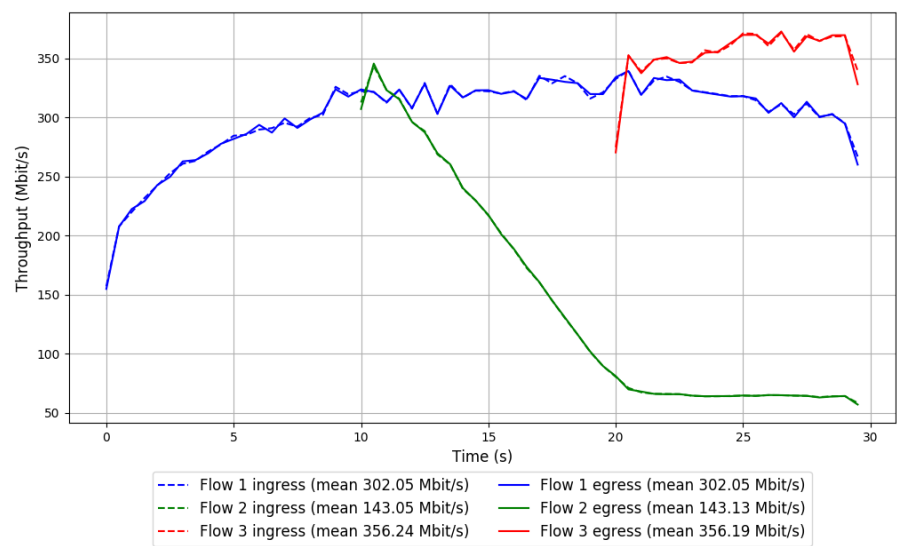
-- Flow 3:

Average throughput: 356.19 Mbit/s

95th percentile per-packet one-way delay: 7.067 ms

Loss rate: 0.22%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-27 03:21:59

End at: 2018-01-27 03:22:29

Local clock offset: -1.736 ms

Below is generated by plot.py at 2018-01-27 18:24:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.25 Mbit/s

95th percentile per-packet one-way delay: 5.200 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 265.46 Mbit/s

95th percentile per-packet one-way delay: 5.182 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 133.29 Mbit/s

95th percentile per-packet one-way delay: 5.201 ms

Loss rate: 0.04%

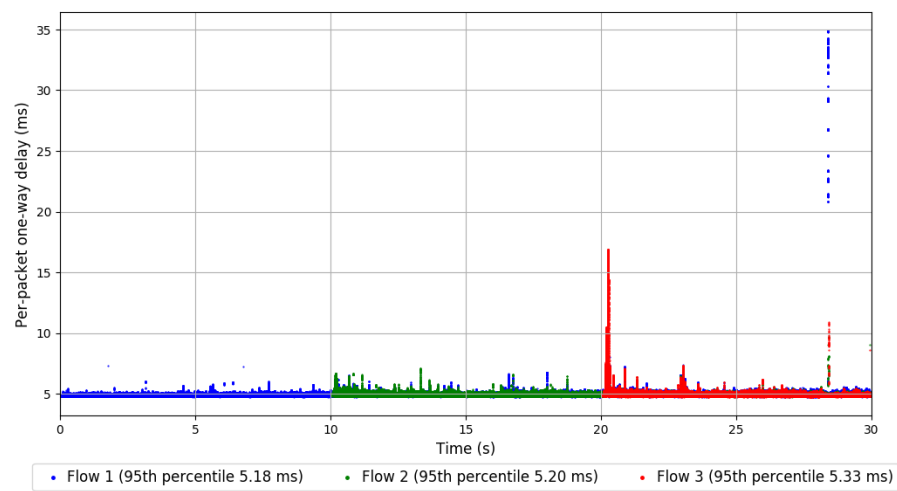
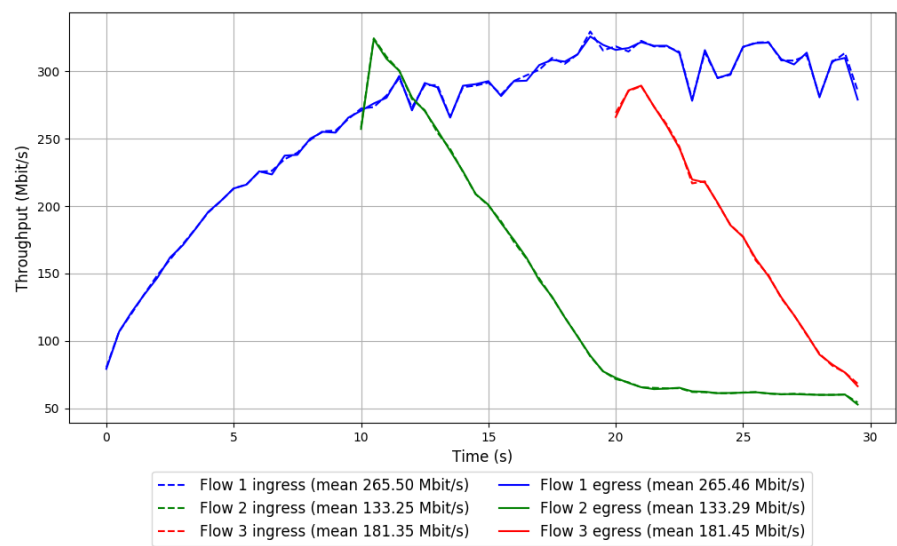
-- Flow 3:

Average throughput: 181.45 Mbit/s

95th percentile per-packet one-way delay: 5.334 ms

Loss rate: 0.07%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-27 04:12:46

End at: 2018-01-27 04:13:16

Local clock offset: -3.354 ms

Below is generated by plot.py at 2018-01-27 18:24:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.71 Mbit/s

95th percentile per-packet one-way delay: 6.752 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 245.62 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 310.37 Mbit/s

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

Loss rate: 0.04%

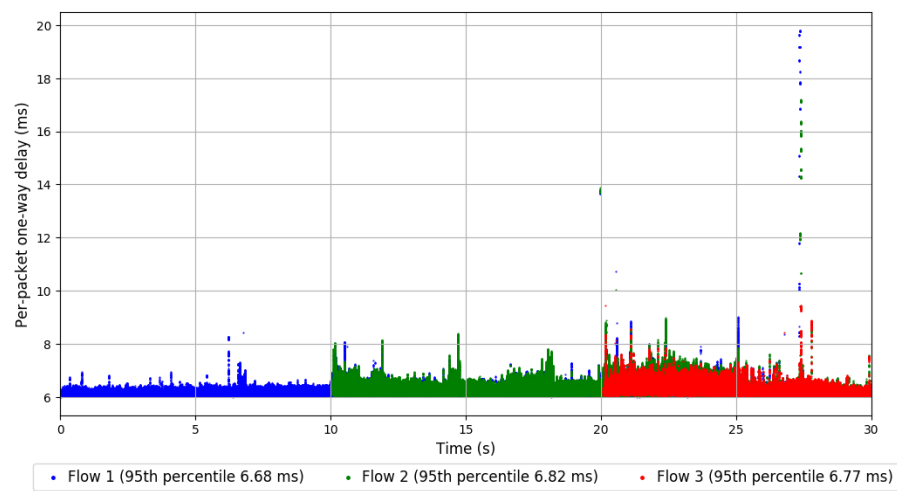
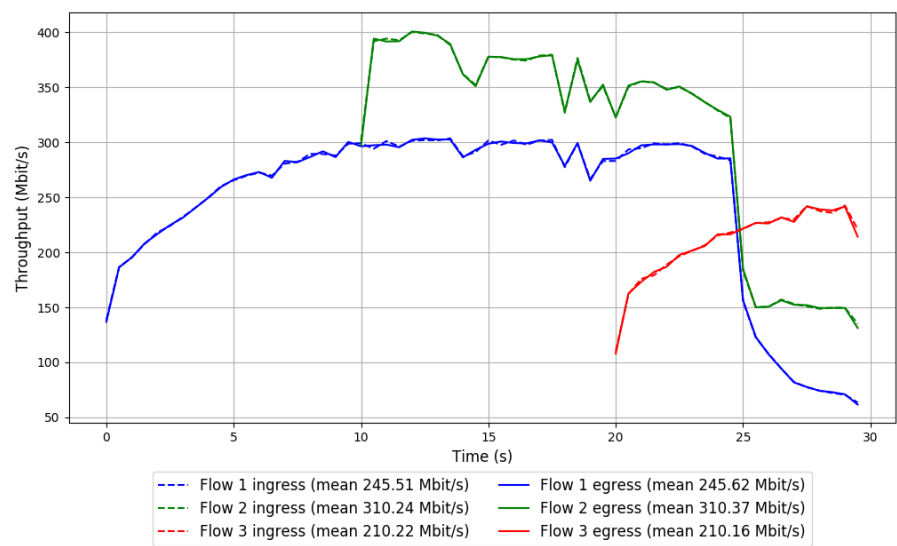
-- Flow 3:

Average throughput: 210.16 Mbit/s

95th percentile per-packet one-way delay: 6.774 ms

Loss rate: 0.23%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-27 05:03:32

End at: 2018-01-27 05:04:02

Local clock offset: -3.118 ms

Below is generated by plot.py at 2018-01-27 18:24:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.36 Mbit/s

95th percentile per-packet one-way delay: 6.505 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 268.72 Mbit/s

95th percentile per-packet one-way delay: 6.487 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 136.75 Mbit/s

95th percentile per-packet one-way delay: 6.480 ms

Loss rate: 0.04%

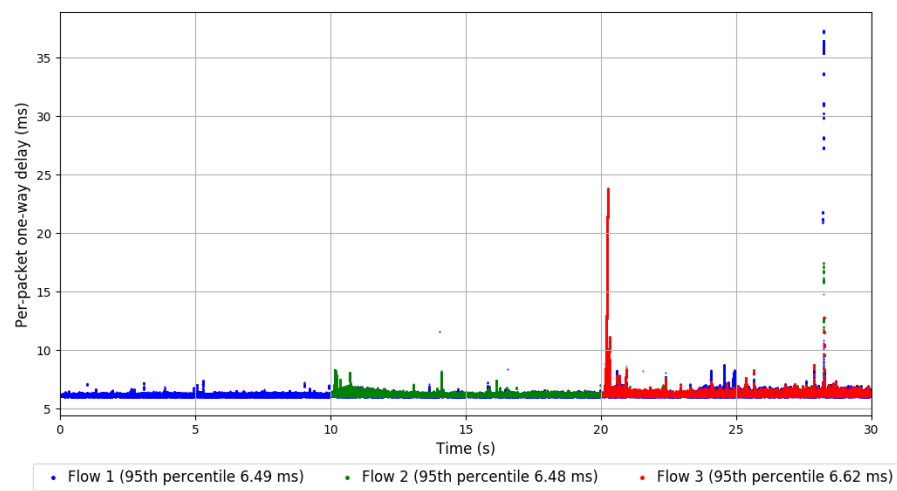
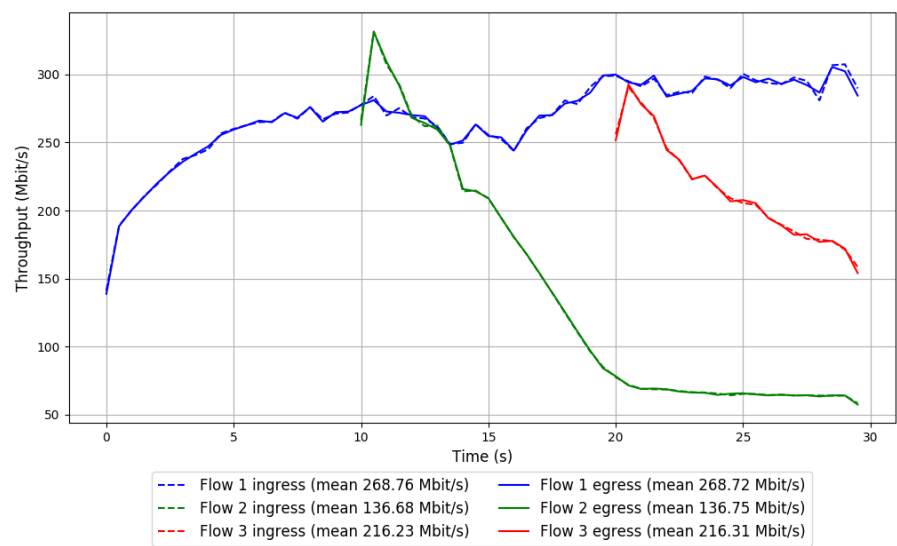
-- Flow 3:

Average throughput: 216.31 Mbit/s

95th percentile per-packet one-way delay: 6.620 ms

Loss rate: 0.15%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-27 05:54:11

End at: 2018-01-27 05:54:41

Local clock offset: -2.543 ms

Below is generated by plot.py at 2018-01-27 18:28:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 570.67 Mbit/s

95th percentile per-packet one-way delay: 6.318 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 279.76 Mbit/s

95th percentile per-packet one-way delay: 6.275 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 340.05 Mbit/s

95th percentile per-packet one-way delay: 6.345 ms

Loss rate: 0.10%

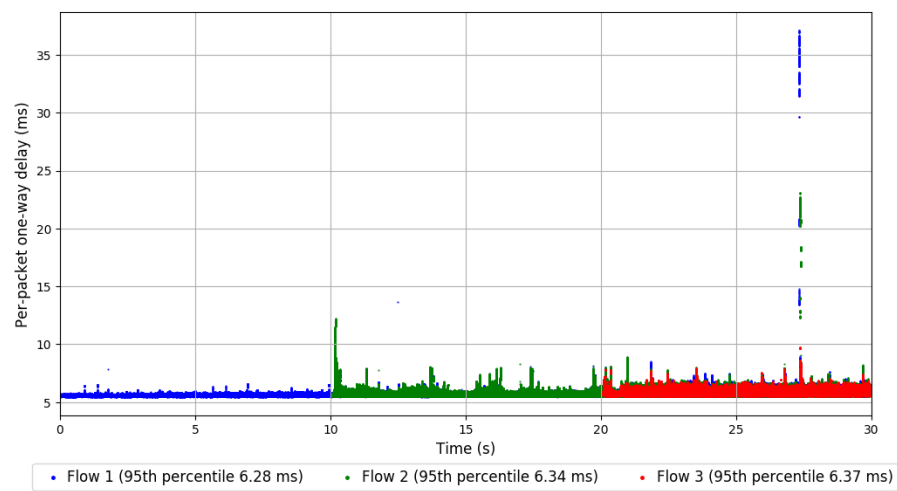
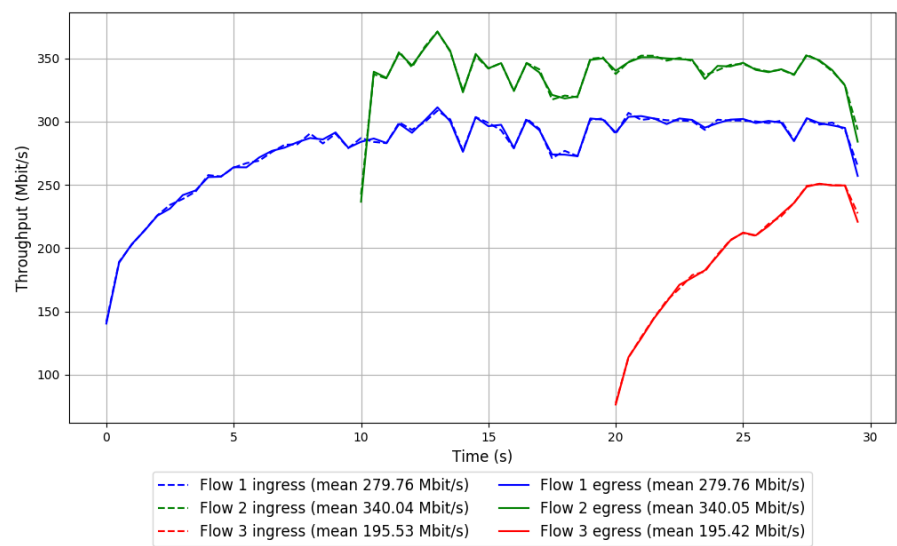
-- Flow 3:

Average throughput: 195.42 Mbit/s

95th percentile per-packet one-way delay: 6.374 ms

Loss rate: 0.24%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-27 06:45:11

End at: 2018-01-27 06:45:41

Local clock offset: -4.453 ms

Below is generated by plot.py at 2018-01-27 18:28:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.74 Mbit/s

95th percentile per-packet one-way delay: 7.413 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 240.37 Mbit/s

95th percentile per-packet one-way delay: 7.353 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 140.34 Mbit/s

95th percentile per-packet one-way delay: 7.538 ms

Loss rate: 0.05%

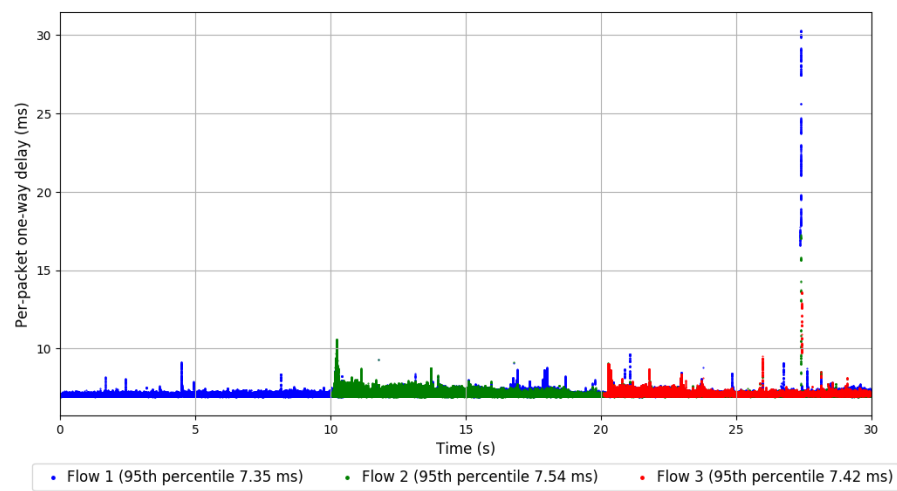
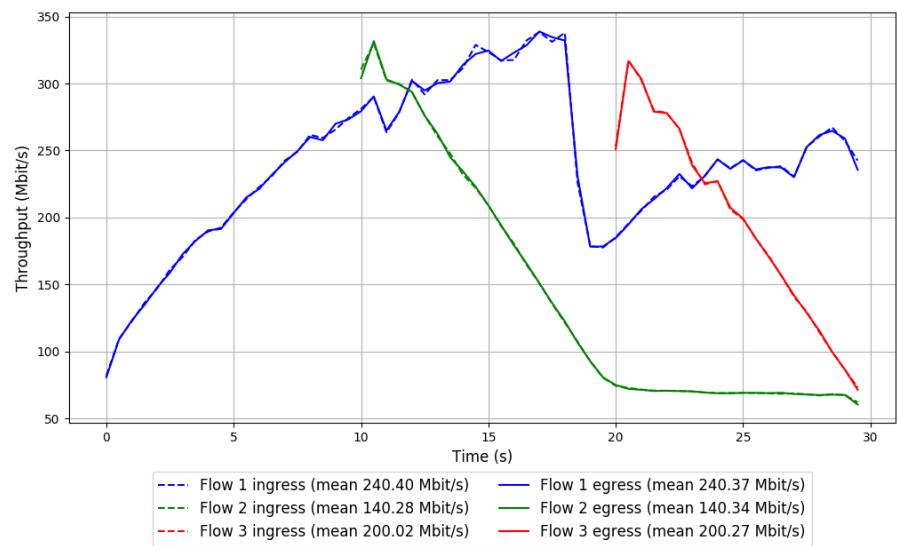
-- Flow 3:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 7.419 ms

Loss rate: 0.07%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-27 07:36:05

End at: 2018-01-27 07:36:35

Local clock offset: 0.469 ms

Below is generated by plot.py at 2018-01-27 18:29:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.32 Mbit/s

95th percentile per-packet one-way delay: 3.795 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 282.37 Mbit/s

95th percentile per-packet one-way delay: 3.733 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 324.59 Mbit/s

95th percentile per-packet one-way delay: 3.842 ms

Loss rate: 0.06%

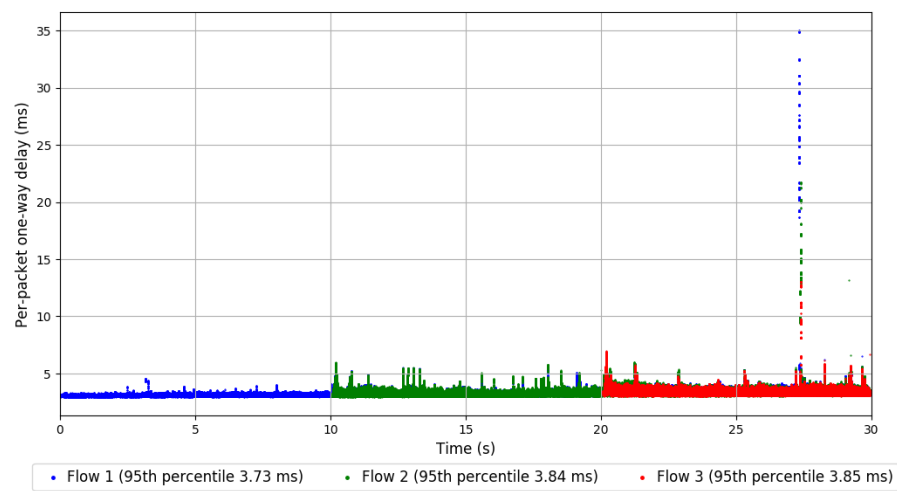
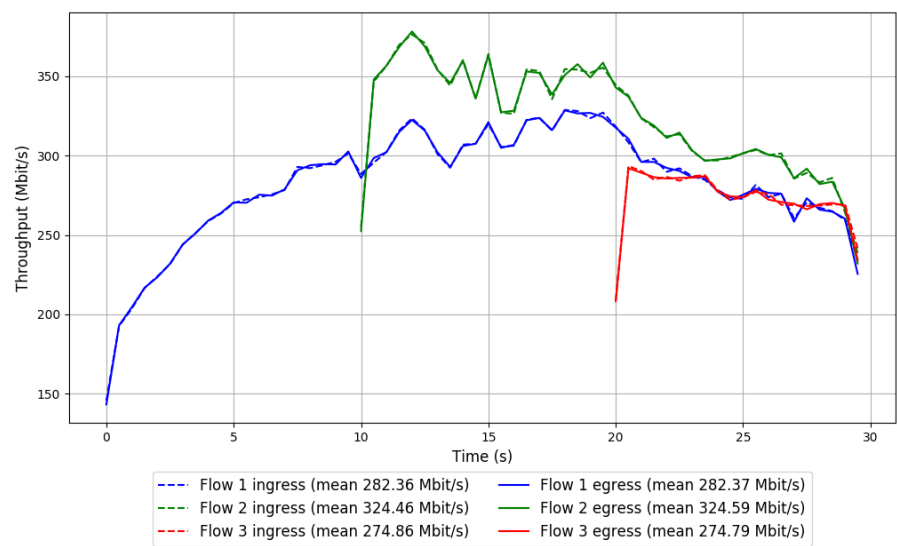
-- Flow 3:

Average throughput: 274.79 Mbit/s

95th percentile per-packet one-way delay: 3.854 ms

Loss rate: 0.18%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-27 08:26:59

End at: 2018-01-27 08:27:29

Local clock offset: 2.115 ms

Below is generated by plot.py at 2018-01-27 18:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.59 Mbit/s

95th percentile per-packet one-way delay: 0.651 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 283.88 Mbit/s

95th percentile per-packet one-way delay: 0.614 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 137.40 Mbit/s

95th percentile per-packet one-way delay: 0.587 ms

Loss rate: 0.04%

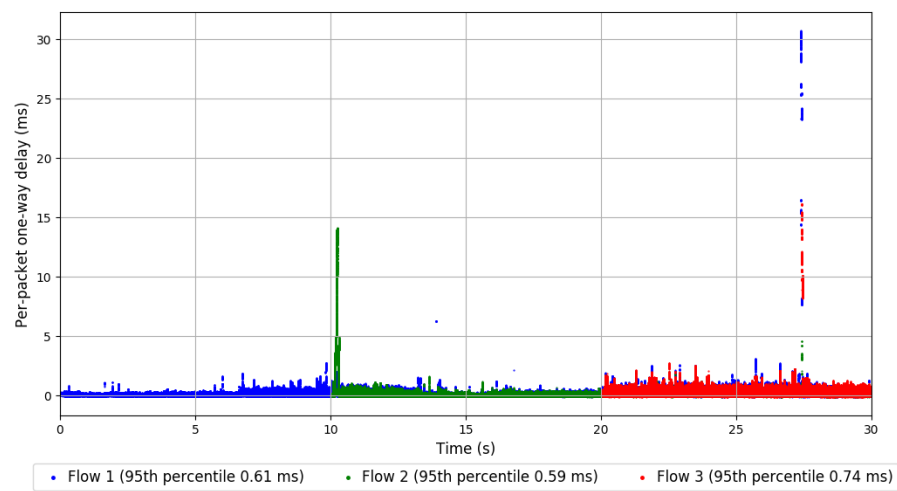
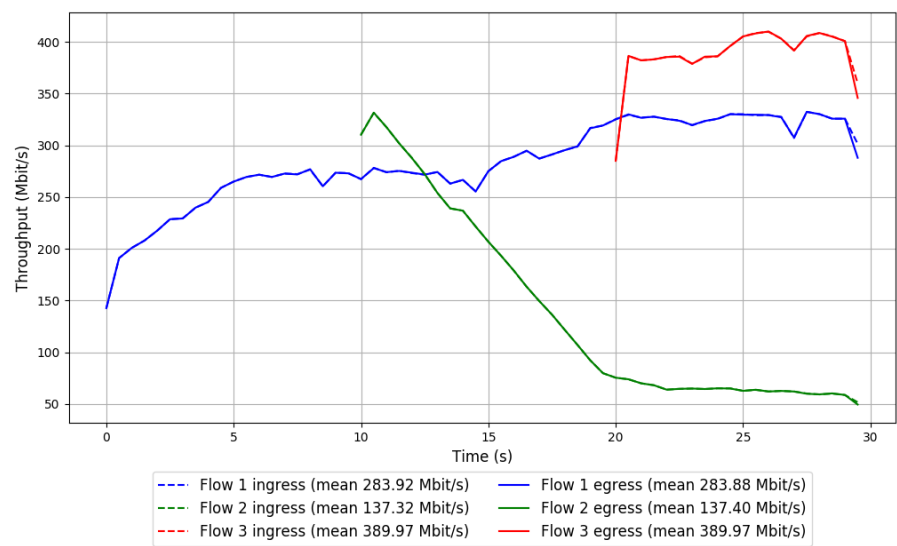
-- Flow 3:

Average throughput: 389.97 Mbit/s

95th percentile per-packet one-way delay: 0.738 ms

Loss rate: 0.19%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-27 00:08:23

End at: 2018-01-27 00:08:53

Local clock offset: -3.39 ms

Below is generated by plot.py at 2018-01-27 18:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 441.23 Mbit/s

95th percentile per-packet one-way delay: 38.136 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 264.29 Mbit/s

95th percentile per-packet one-way delay: 60.945 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 209.11 Mbit/s

95th percentile per-packet one-way delay: 7.055 ms

Loss rate: 0.08%

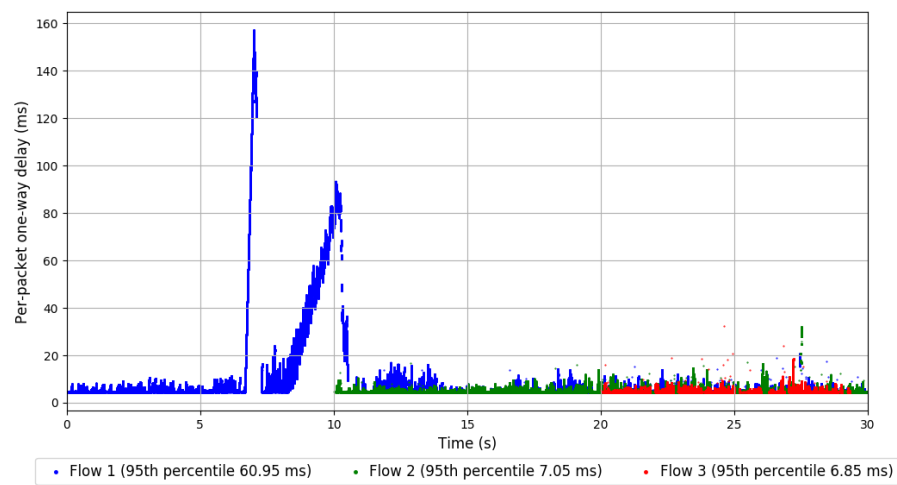
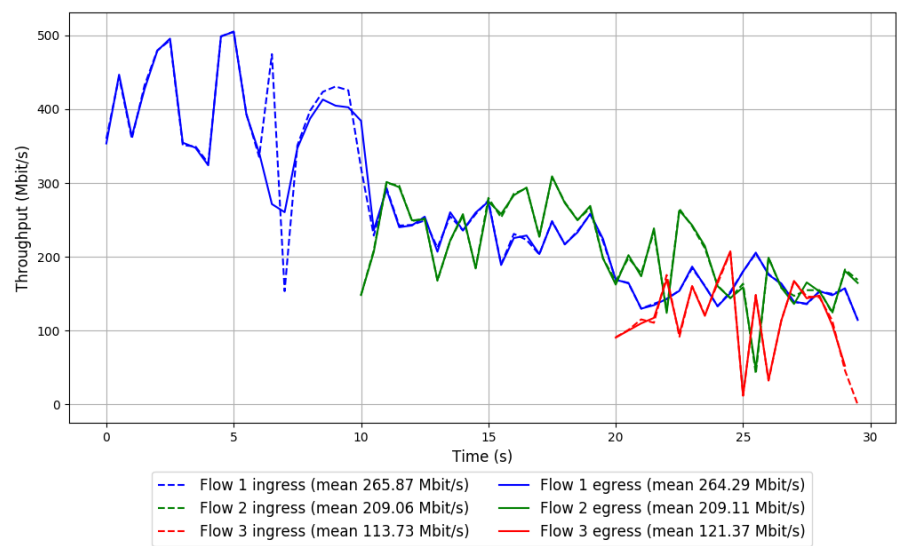
-- Flow 3:

Average throughput: 121.37 Mbit/s

95th percentile per-packet one-way delay: 6.851 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-27 00:59:08

End at: 2018-01-27 00:59:38

Local clock offset: -3.866 ms

Below is generated by plot.py at 2018-01-27 18:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.12 Mbit/s

95th percentile per-packet one-way delay: 15.801 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 192.89 Mbit/s

95th percentile per-packet one-way delay: 16.802 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 15.254 ms

Loss rate: 0.00%

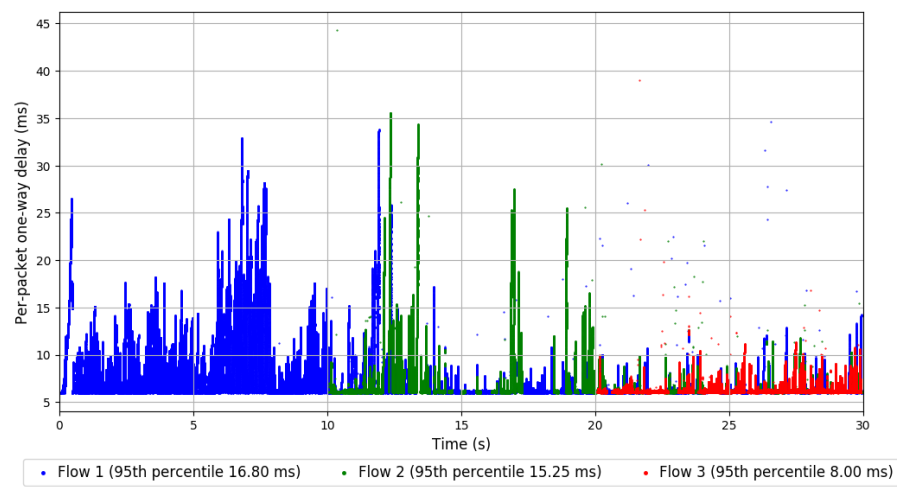
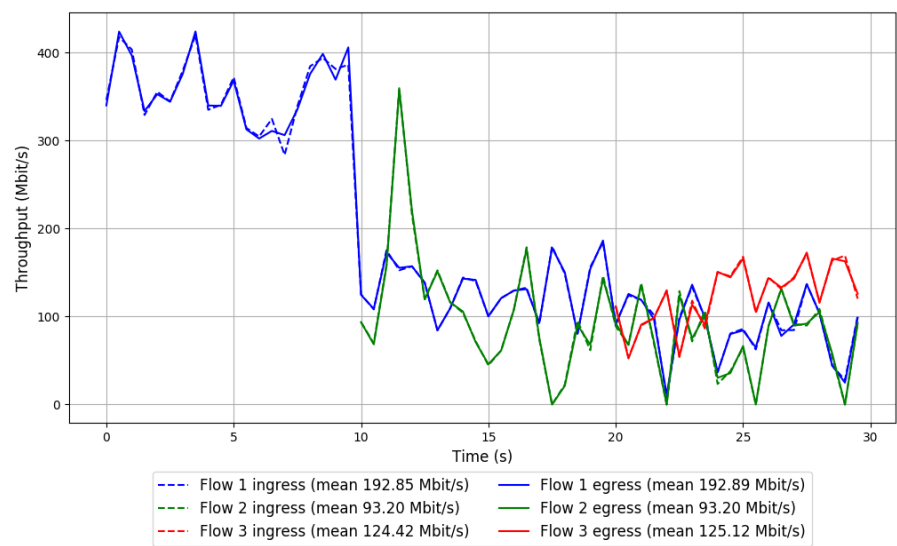
-- Flow 3:

Average throughput: 125.12 Mbit/s

95th percentile per-packet one-way delay: 7.997 ms

Loss rate: 0.03%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-27 01:50:03

End at: 2018-01-27 01:50:33

Local clock offset: -2.616 ms

Below is generated by plot.py at 2018-01-27 18:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.13 Mbit/s

95th percentile per-packet one-way delay: 9.962 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 204.97 Mbit/s

95th percentile per-packet one-way delay: 10.633 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 168.66 Mbit/s

95th percentile per-packet one-way delay: 8.034 ms

Loss rate: 0.17%

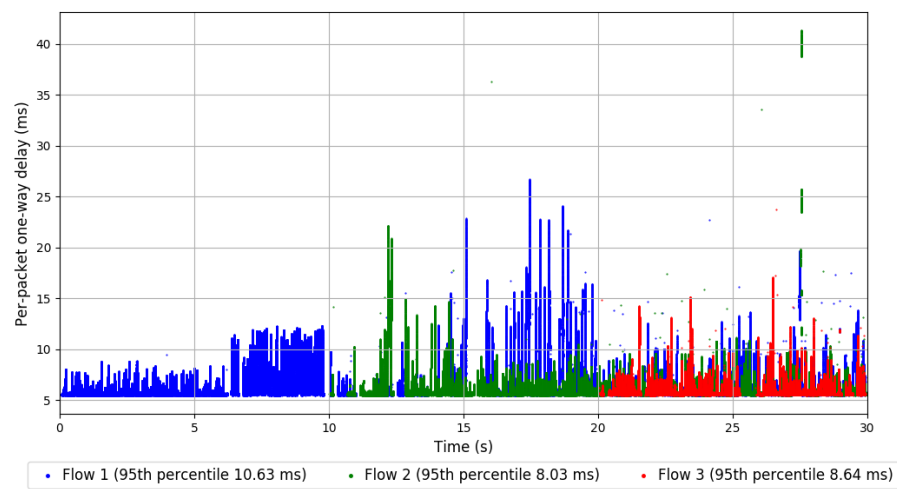
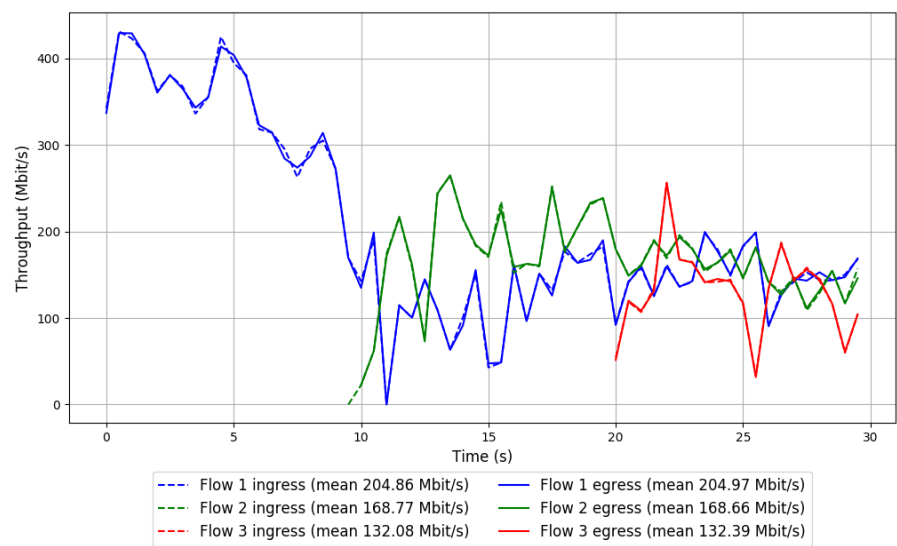
-- Flow 3:

Average throughput: 132.39 Mbit/s

95th percentile per-packet one-way delay: 8.640 ms

Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-27 02:41:00

End at: 2018-01-27 02:41:30

Local clock offset: -3.317 ms

Below is generated by plot.py at 2018-01-27 18:30:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.73 Mbit/s

95th percentile per-packet one-way delay: 11.460 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 240.82 Mbit/s

95th percentile per-packet one-way delay: 15.327 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 168.72 Mbit/s

95th percentile per-packet one-way delay: 8.399 ms

Loss rate: 0.09%

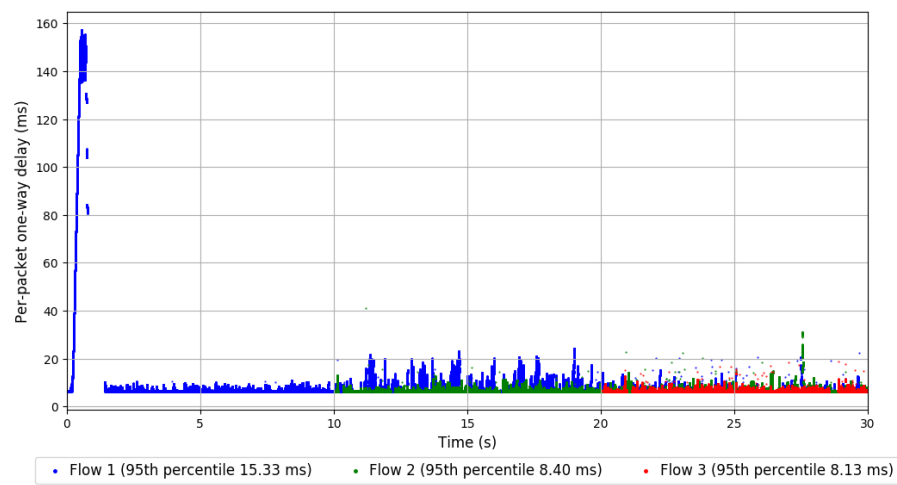
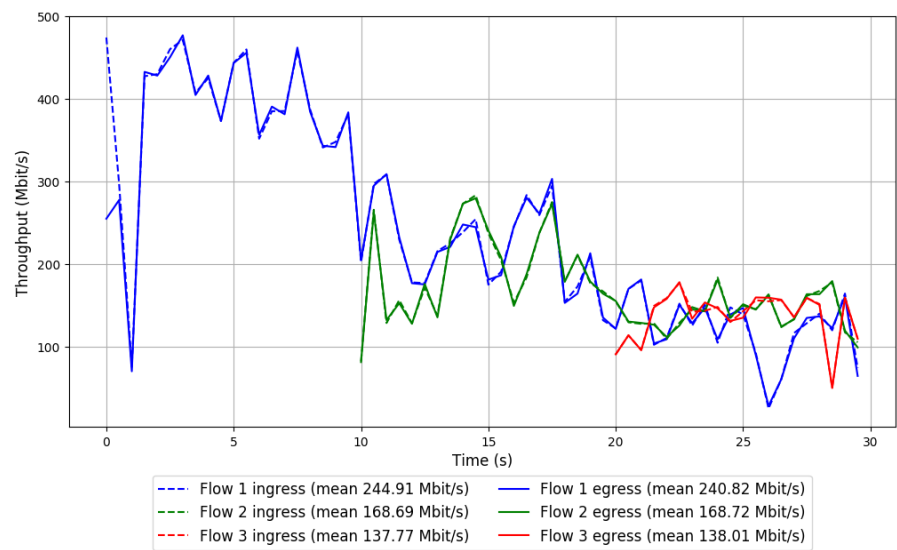
-- Flow 3:

Average throughput: 138.01 Mbit/s

95th percentile per-packet one-way delay: 8.134 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-27 03:31:27

End at: 2018-01-27 03:31:57

Local clock offset: -1.559 ms

Below is generated by plot.py at 2018-01-27 18:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.28 Mbit/s

95th percentile per-packet one-way delay: 11.266 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 201.55 Mbit/s

95th percentile per-packet one-way delay: 13.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 184.80 Mbit/s

95th percentile per-packet one-way delay: 7.024 ms

Loss rate: 0.10%

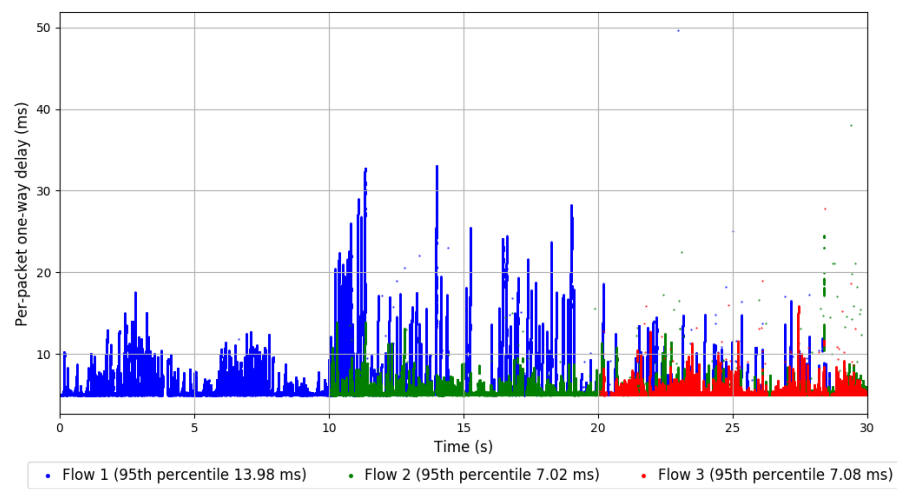
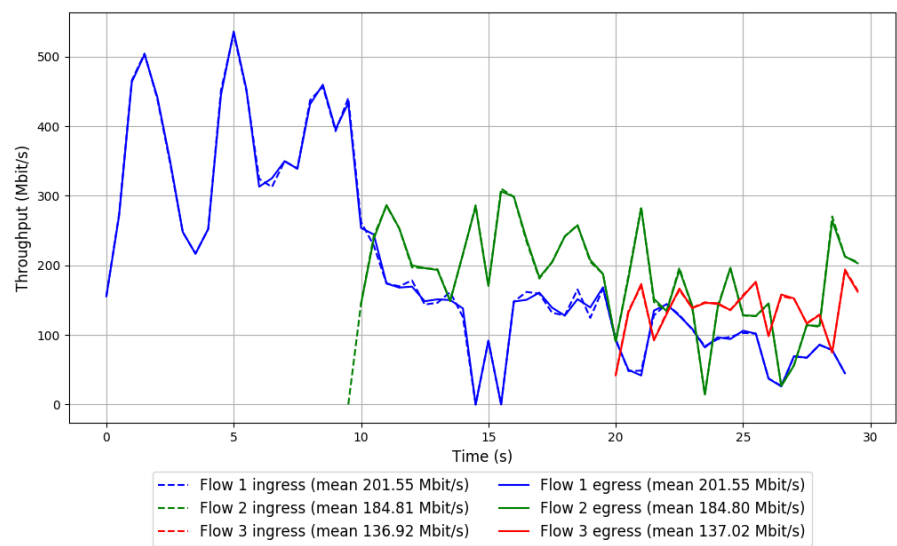
-- Flow 3:

Average throughput: 137.02 Mbit/s

95th percentile per-packet one-way delay: 7.084 ms

Loss rate: 0.16%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-27 04:22:18

End at: 2018-01-27 04:22:48

Local clock offset: -3.336 ms

Below is generated by plot.py at 2018-01-27 18:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.33 Mbit/s

95th percentile per-packet one-way delay: 12.520 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 172.58 Mbit/s

95th percentile per-packet one-way delay: 13.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.89 Mbit/s

95th percentile per-packet one-way delay: 8.940 ms

Loss rate: 0.14%

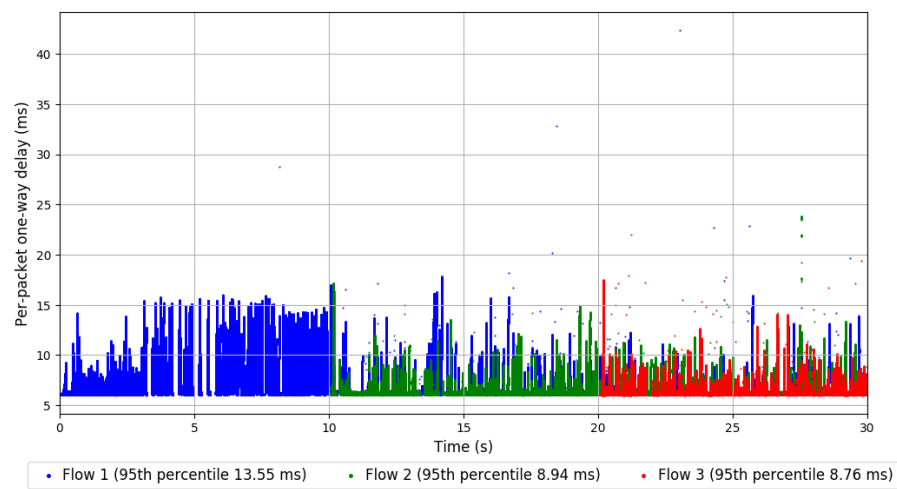
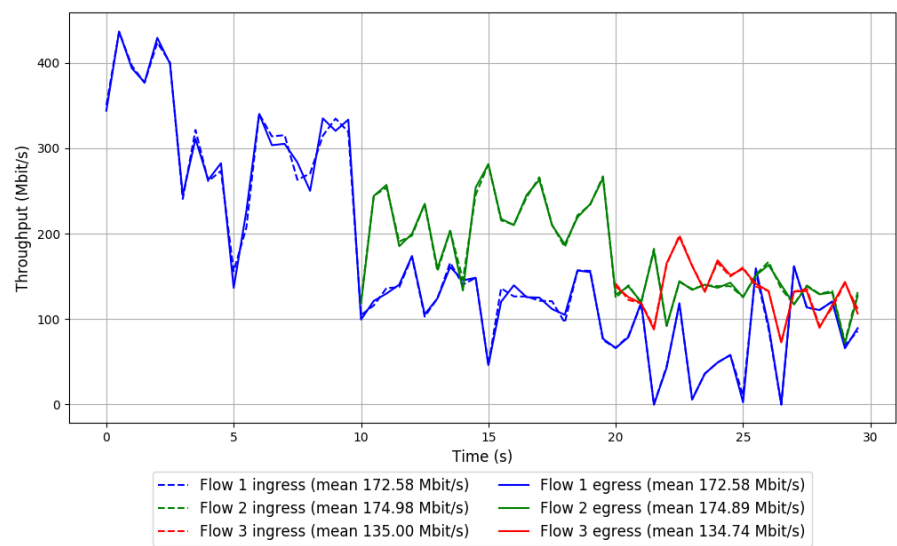
-- Flow 3:

Average throughput: 134.74 Mbit/s

95th percentile per-packet one-way delay: 8.755 ms

Loss rate: 0.21%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-27 05:13:02

End at: 2018-01-27 05:13:32

Local clock offset: -3.246 ms

Below is generated by plot.py at 2018-01-27 18:32:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.97 Mbit/s

95th percentile per-packet one-way delay: 45.844 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.62 Mbit/s

95th percentile per-packet one-way delay: 64.348 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 180.00 Mbit/s

95th percentile per-packet one-way delay: 11.637 ms

Loss rate: 0.00%

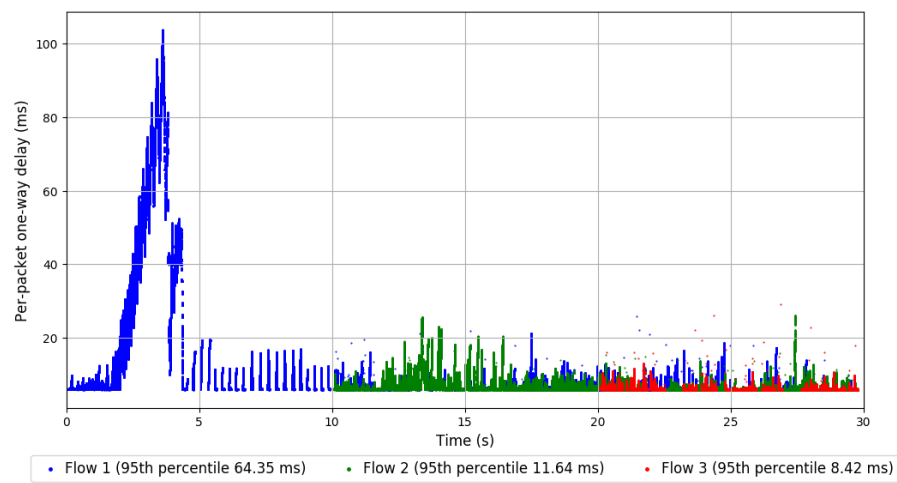
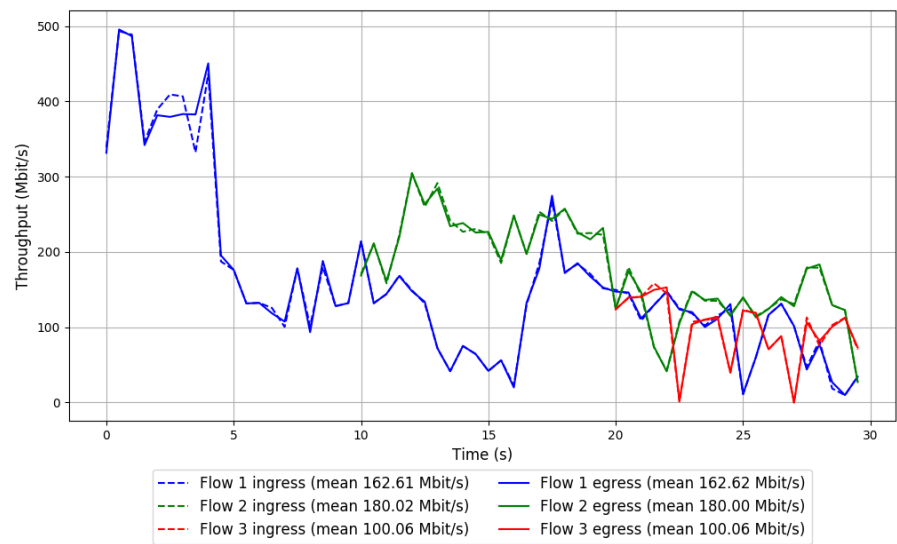
-- Flow 3:

Average throughput: 100.06 Mbit/s

95th percentile per-packet one-way delay: 8.422 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-27 06:03:46

End at: 2018-01-27 06:04:16

Local clock offset: -3.346 ms

Below is generated by plot.py at 2018-01-27 18:34:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.32 Mbit/s

95th percentile per-packet one-way delay: 9.822 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 226.83 Mbit/s

95th percentile per-packet one-way delay: 9.473 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 152.22 Mbit/s

95th percentile per-packet one-way delay: 10.970 ms

Loss rate: 0.00%

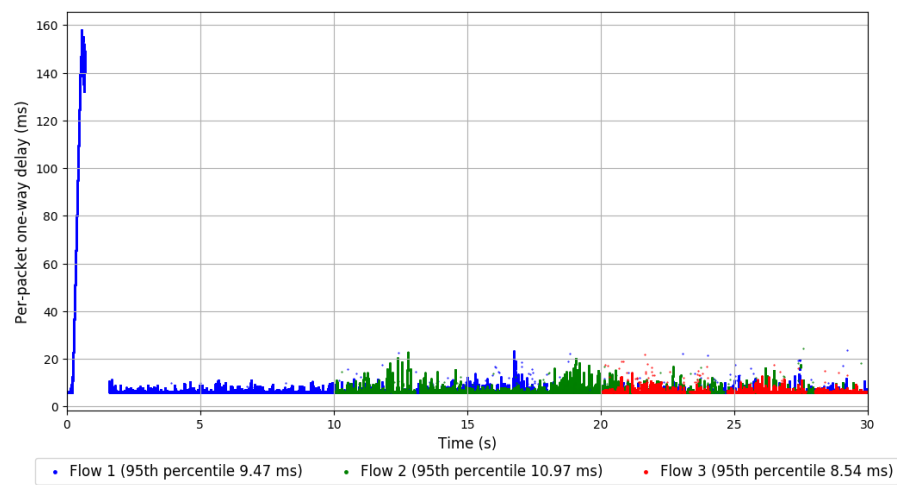
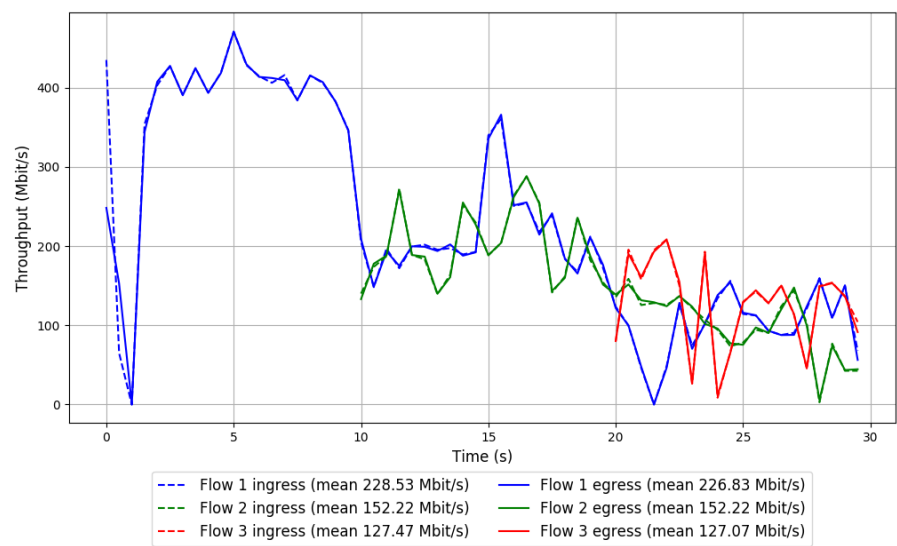
-- Flow 3:

Average throughput: 127.07 Mbit/s

95th percentile per-packet one-way delay: 8.535 ms

Loss rate: 0.51%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-27 06:54:40

End at: 2018-01-27 06:55:10

Local clock offset: -4.683 ms

Below is generated by plot.py at 2018-01-27 18:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.90 Mbit/s

95th percentile per-packet one-way delay: 11.794 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 232.80 Mbit/s

95th percentile per-packet one-way delay: 12.700 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 198.11 Mbit/s

95th percentile per-packet one-way delay: 10.572 ms

Loss rate: 0.07%

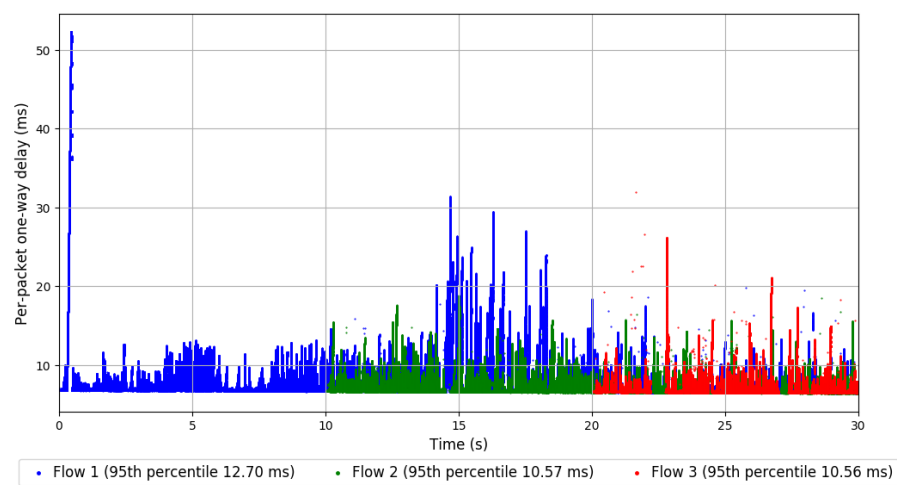
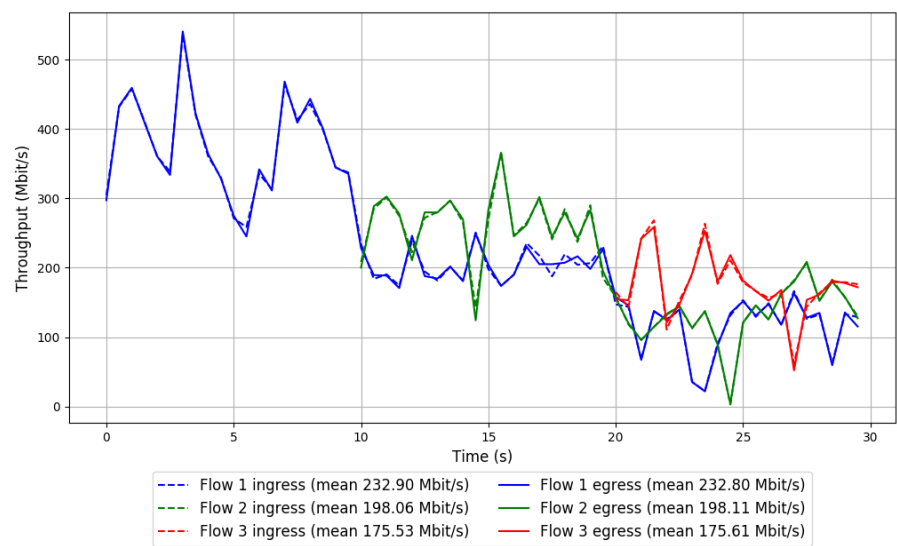
-- Flow 3:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 10.559 ms

Loss rate: 0.16%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-27 07:45:40

End at: 2018-01-27 07:46:10

Local clock offset: -2.187 ms

Below is generated by plot.py at 2018-01-27 18:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.16 Mbit/s

95th percentile per-packet one-way delay: 8.646 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 177.96 Mbit/s

95th percentile per-packet one-way delay: 8.993 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.82 Mbit/s

95th percentile per-packet one-way delay: 8.531 ms

Loss rate: 0.05%

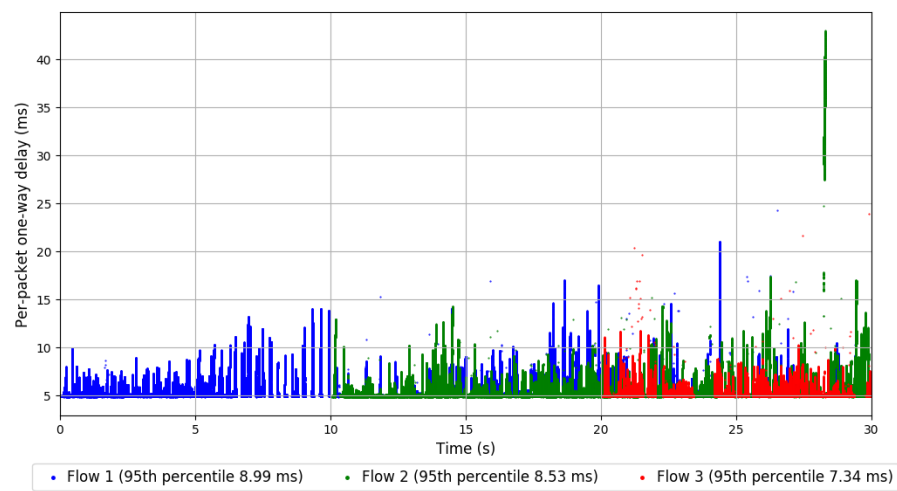
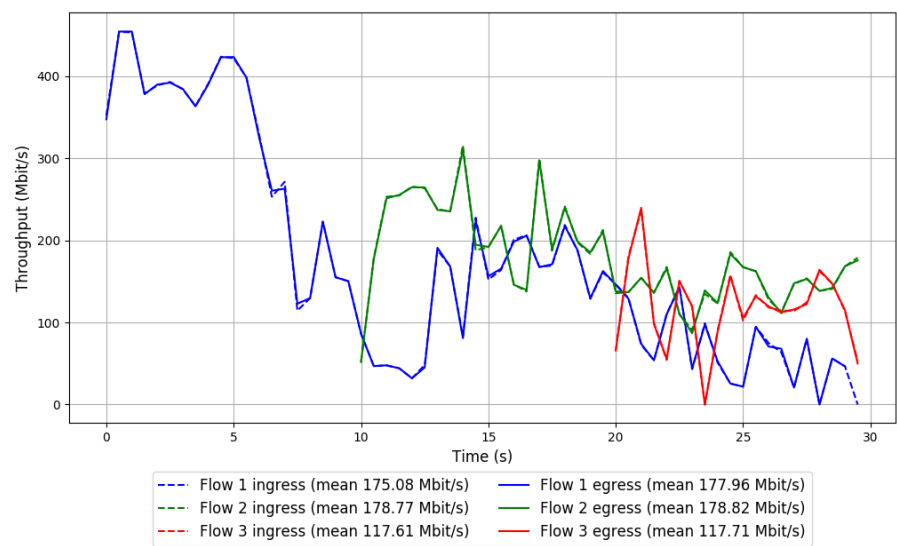
-- Flow 3:

Average throughput: 117.71 Mbit/s

95th percentile per-packet one-way delay: 7.344 ms

Loss rate: 0.13%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-27 00:21:06

End at: 2018-01-27 00:21:36

Local clock offset: -2.495 ms

Below is generated by plot.py at 2018-01-27 18:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.76 Mbit/s

95th percentile per-packet one-way delay: 3.992 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 3.995 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 69.90 Mbit/s

95th percentile per-packet one-way delay: 3.989 ms

Loss rate: 0.08%

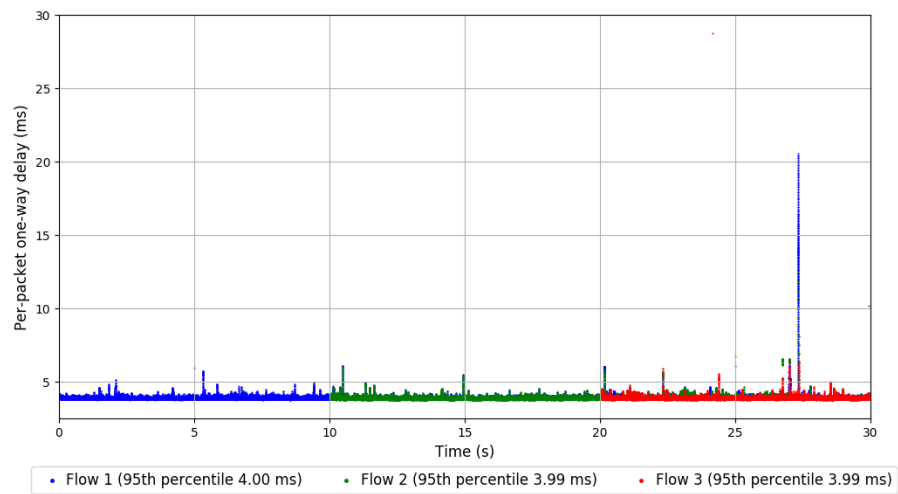
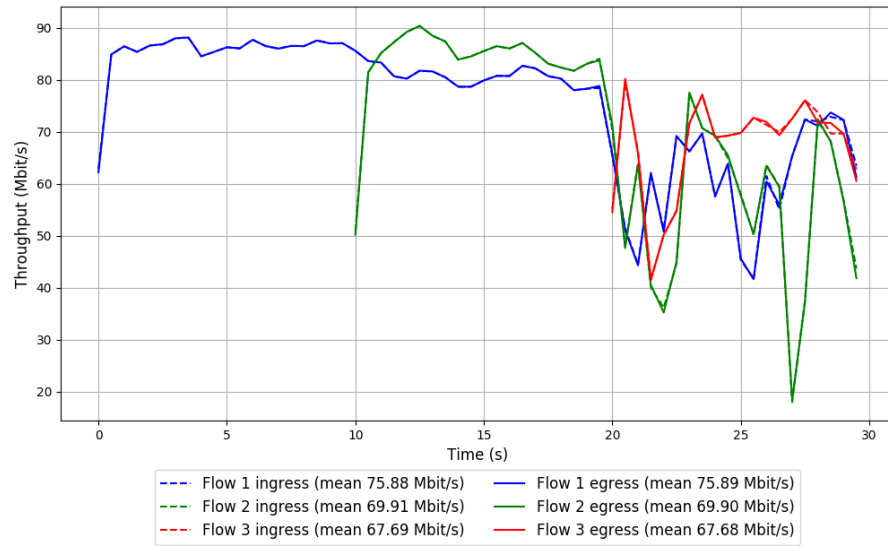
-- Flow 3:

Average throughput: 67.68 Mbit/s

95th percentile per-packet one-way delay: 3.986 ms

Loss rate: 0.20%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-27 01:11:51

End at: 2018-01-27 01:12:21

Local clock offset: -4.351 ms

Below is generated by plot.py at 2018-01-27 18:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.06 Mbit/s

95th percentile per-packet one-way delay: 6.912 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 6.911 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 6.896 ms

Loss rate: 0.10%

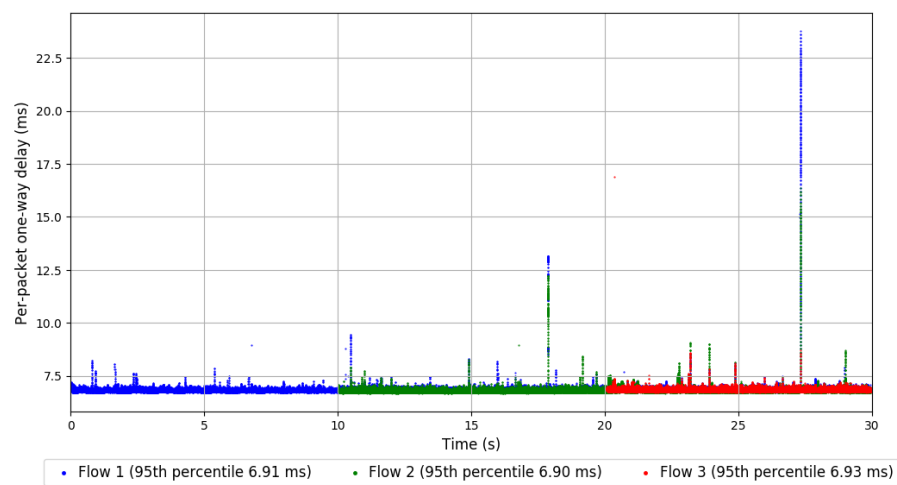
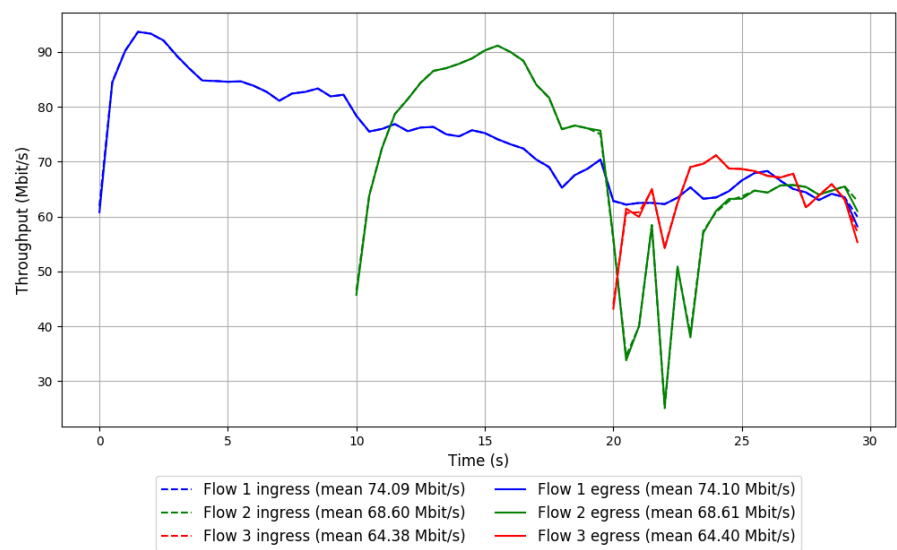
-- Flow 3:

Average throughput: 64.40 Mbit/s

95th percentile per-packet one-way delay: 6.931 ms

Loss rate: 0.20%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-27 02:02:40

End at: 2018-01-27 02:03:10

Local clock offset: -2.969 ms

Below is generated by plot.py at 2018-01-27 18:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.39 Mbit/s

95th percentile per-packet one-way delay: 6.093 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 6.083 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 6.118 ms

Loss rate: 0.07%

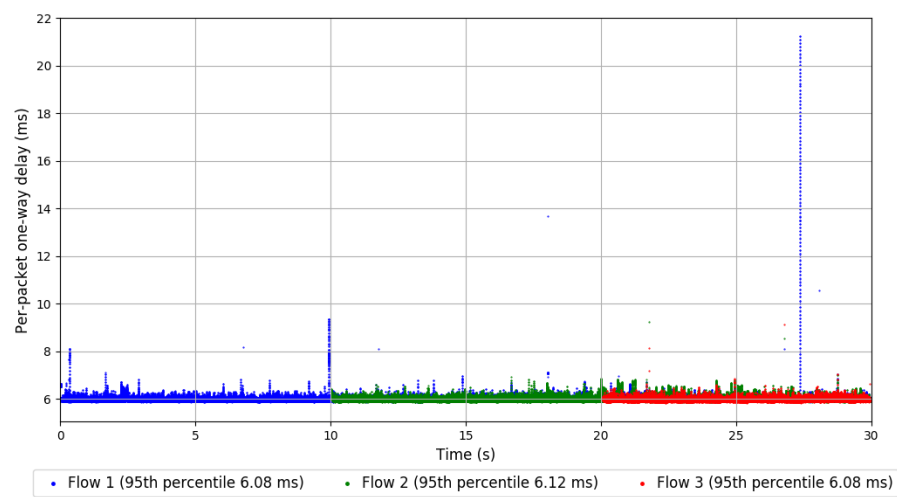
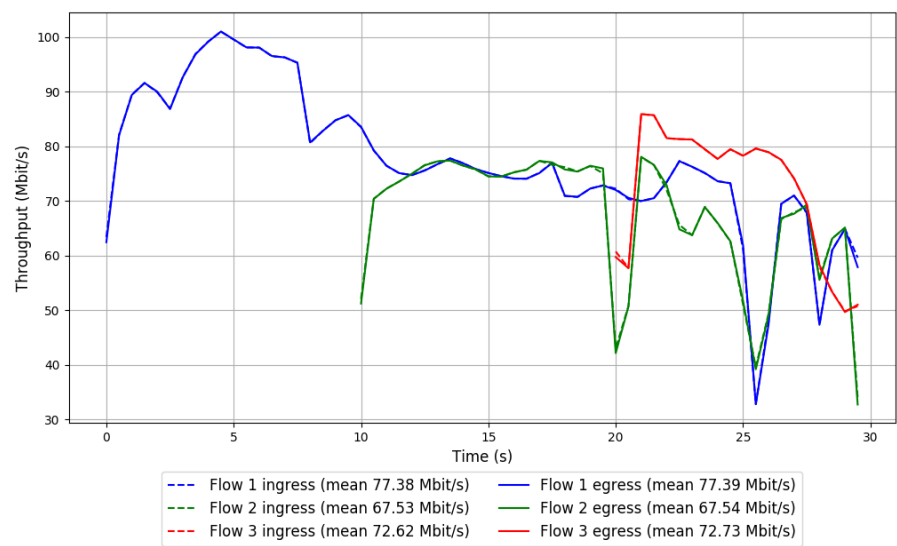
-- Flow 3:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 6.075 ms

Loss rate: 0.03%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-27 02:53:40

End at: 2018-01-27 02:54:10

Local clock offset: -3.311 ms

Below is generated by plot.py at 2018-01-27 18:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.13 Mbit/s

95th percentile per-packet one-way delay: 6.556 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 6.567 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 6.533 ms

Loss rate: 0.09%

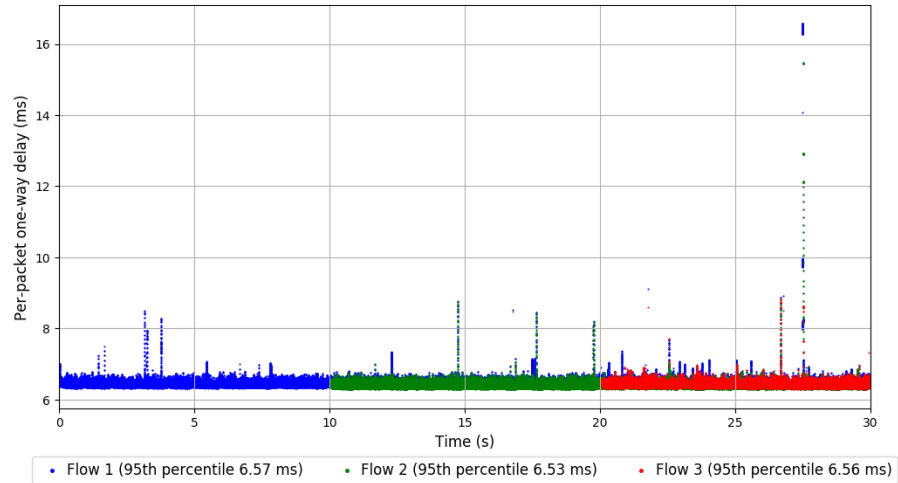
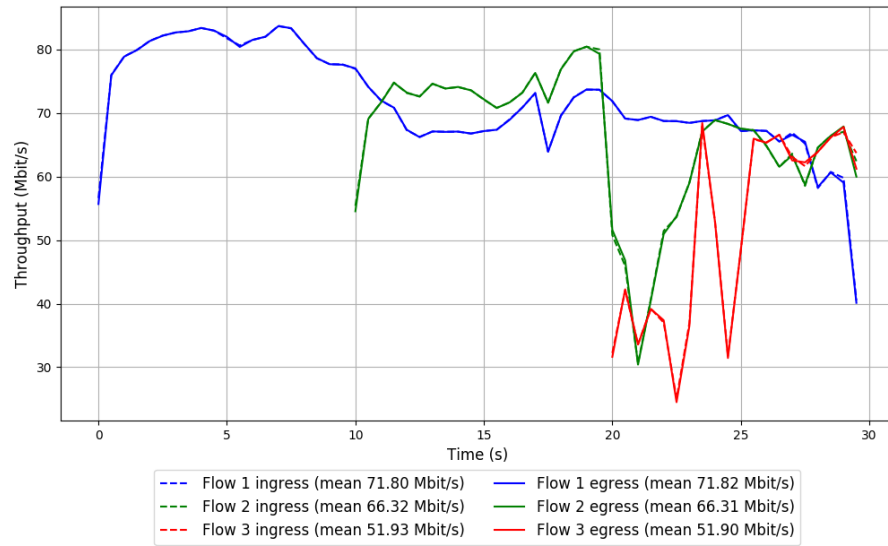
-- Flow 3:

Average throughput: 51.90 Mbit/s

95th percentile per-packet one-way delay: 6.559 ms

Loss rate: 0.24%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-27 03:44:05

End at: 2018-01-27 03:44:35

Local clock offset: -2.95 ms

Below is generated by plot.py at 2018-01-27 18:36:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.51 Mbit/s

95th percentile per-packet one-way delay: 6.349 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 6.346 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 59.29 Mbit/s

95th percentile per-packet one-way delay: 6.361 ms

Loss rate: 0.10%

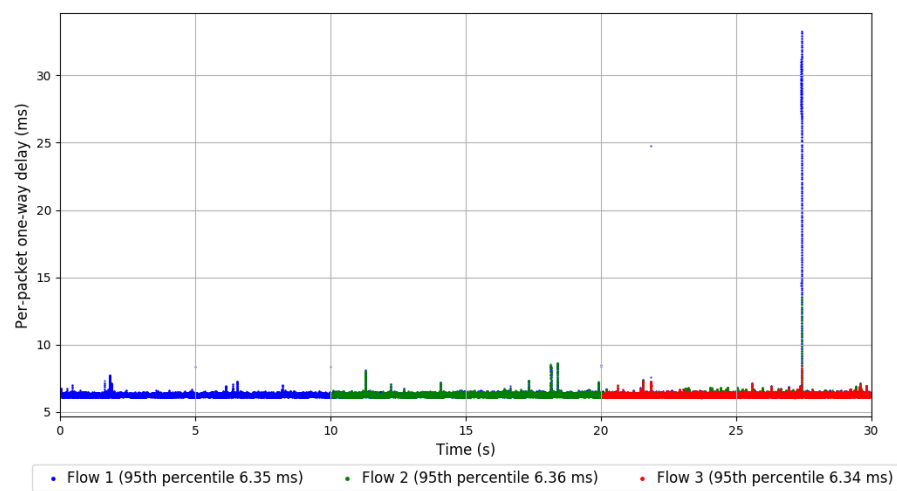
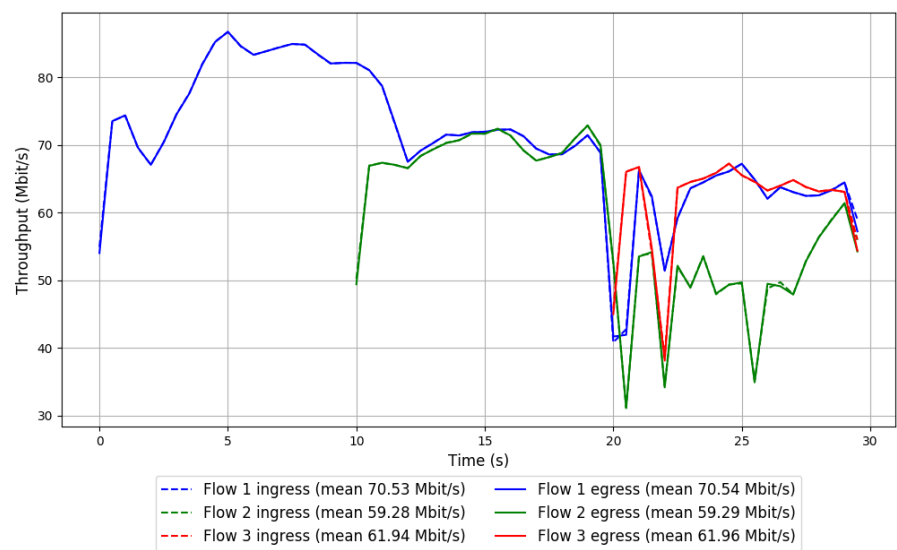
-- Flow 3:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 6.337 ms

Loss rate: 0.20%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-27 04:34:53

End at: 2018-01-27 04:35:23

Local clock offset: -3.308 ms

Below is generated by plot.py at 2018-01-27 18:36:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.07 Mbit/s

95th percentile per-packet one-way delay: 6.355 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 6.352 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.99 Mbit/s

95th percentile per-packet one-way delay: 6.355 ms

Loss rate: 0.09%

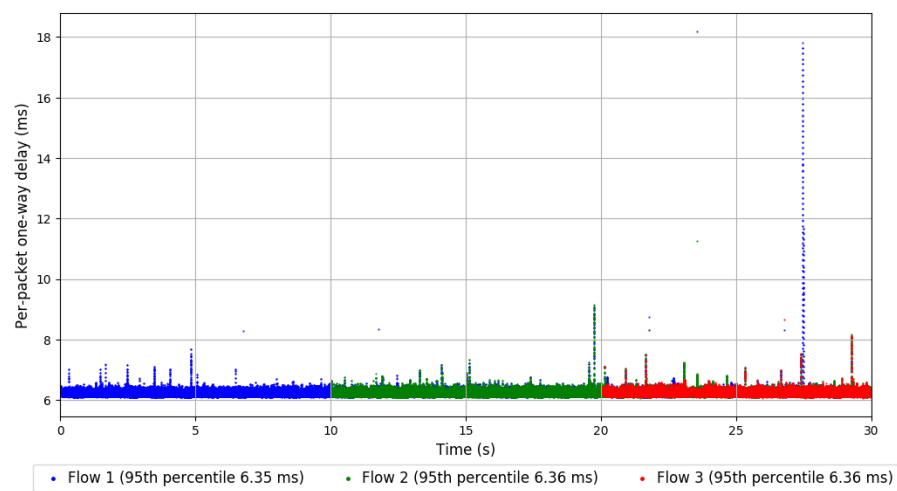
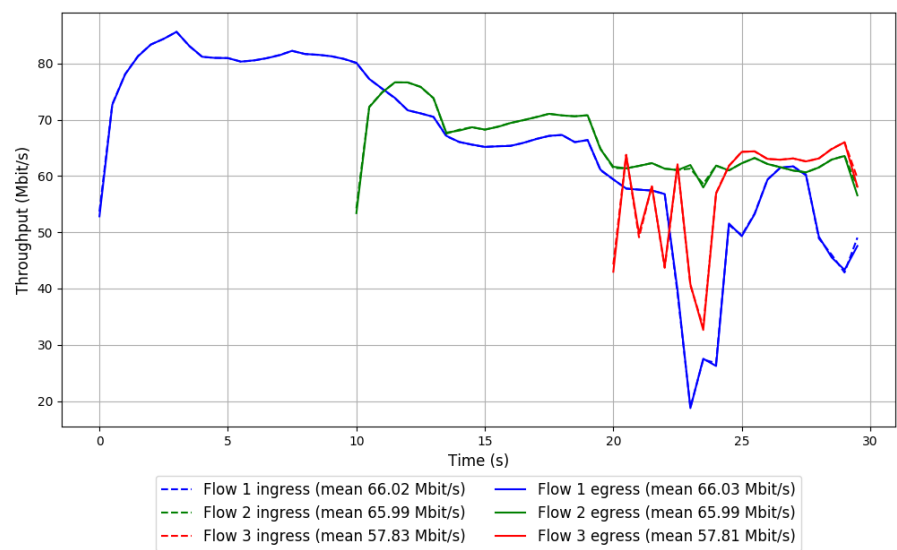
-- Flow 3:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 6.364 ms

Loss rate: 0.21%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-27 05:25:38

End at: 2018-01-27 05:26:08

Local clock offset: -2.288 ms

Below is generated by plot.py at 2018-01-27 18:37:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.84 Mbit/s

95th percentile per-packet one-way delay: 5.086 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 5.062 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 5.090 ms

Loss rate: 0.09%

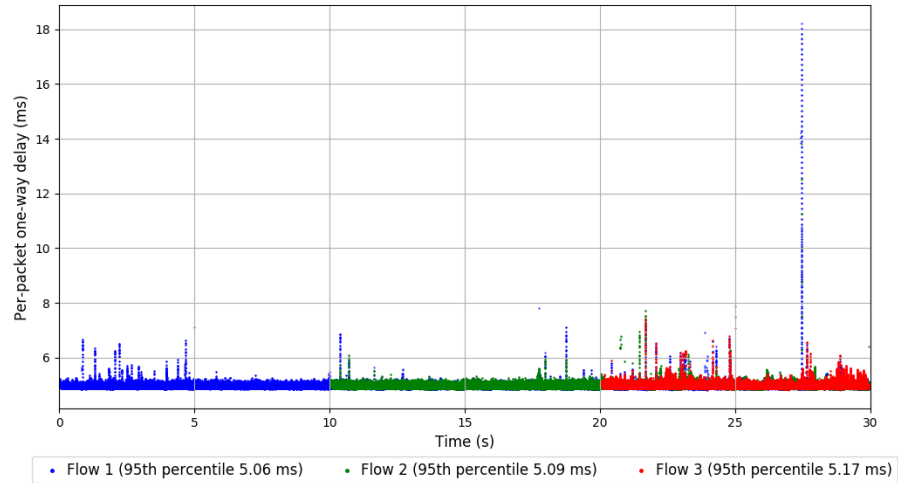
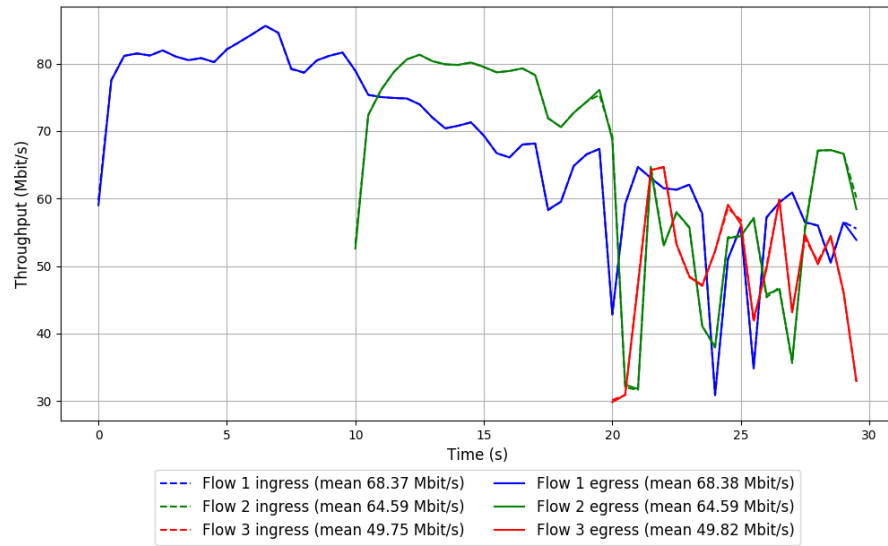
-- Flow 3:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 5.168 ms

Loss rate: 0.03%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-27 06:16:25

End at: 2018-01-27 06:16:55

Local clock offset: -3.813 ms

Below is generated by plot.py at 2018-01-27 18:37:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.66 Mbit/s

95th percentile per-packet one-way delay: 6.600 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 6.585 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 6.607 ms

Loss rate: 0.08%

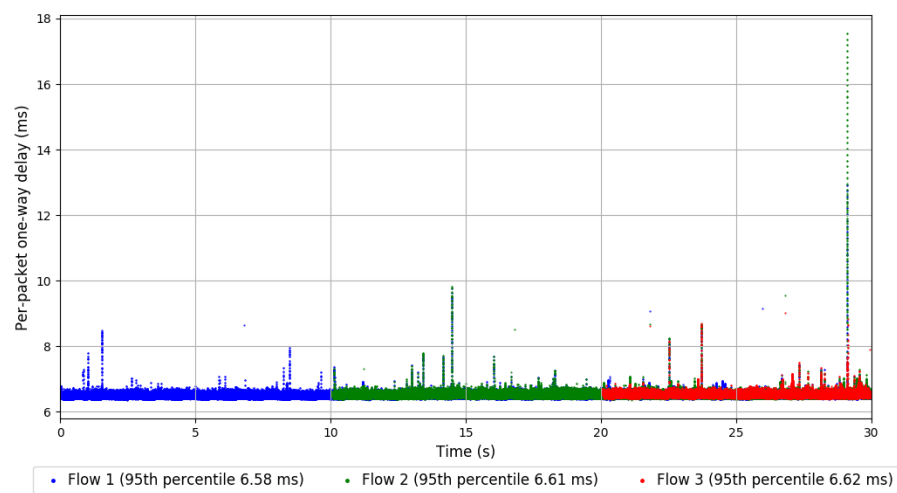
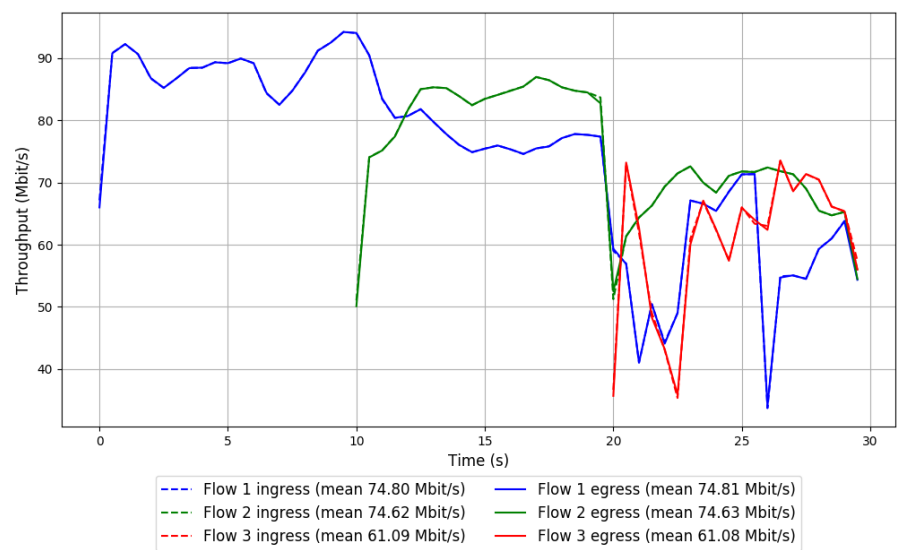
-- Flow 3:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 6.621 ms

Loss rate: 0.19%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-27 07:07:23

End at: 2018-01-27 07:07:53

Local clock offset: 0.324 ms

Below is generated by plot.py at 2018-01-27 18:37:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.79 Mbit/s

95th percentile per-packet one-way delay: 1.688 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 1.693 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 1.686 ms

Loss rate: 0.09%

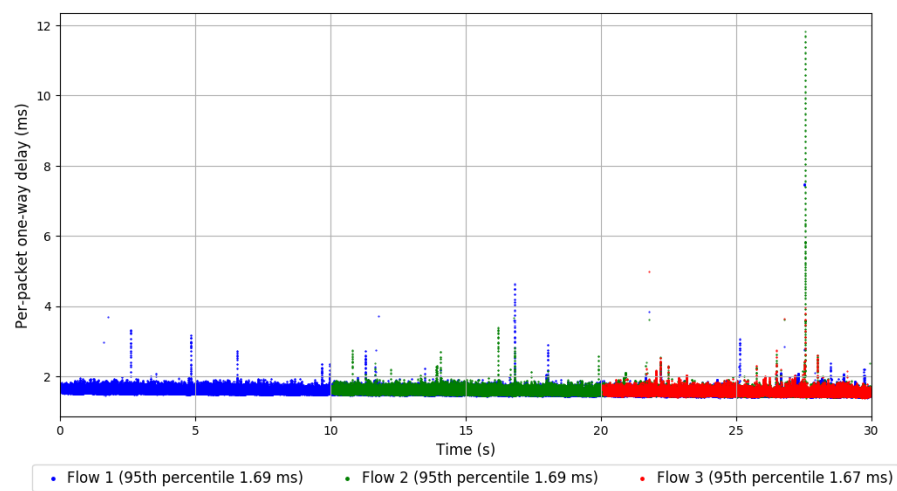
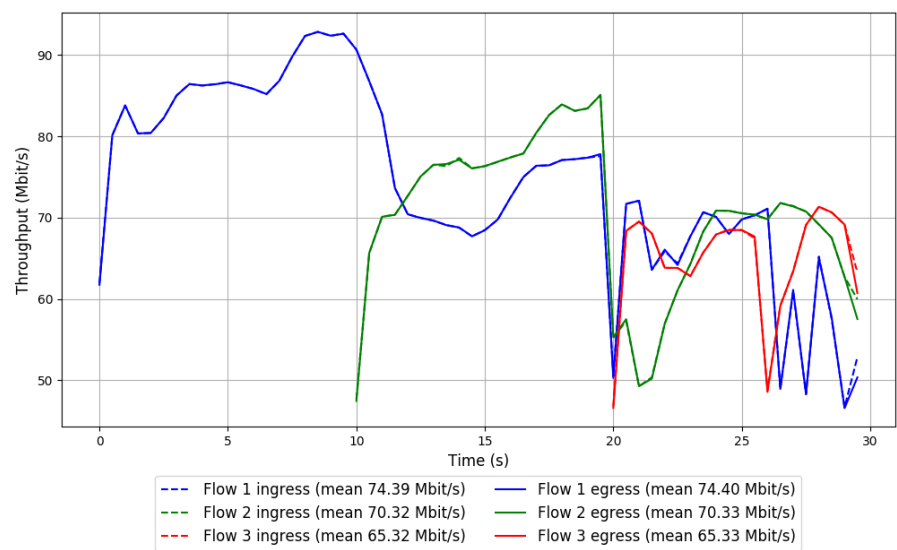
-- Flow 3:

Average throughput: 65.33 Mbit/s

95th percentile per-packet one-way delay: 1.673 ms

Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-27 07:58:18

End at: 2018-01-27 07:58:48

Local clock offset: -3.193 ms

Below is generated by plot.py at 2018-01-27 18:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.59 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 71.53 Mbit/s

95th percentile per-packet one-way delay: 5.771 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 63.60 Mbit/s

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

Loss rate: 0.10%

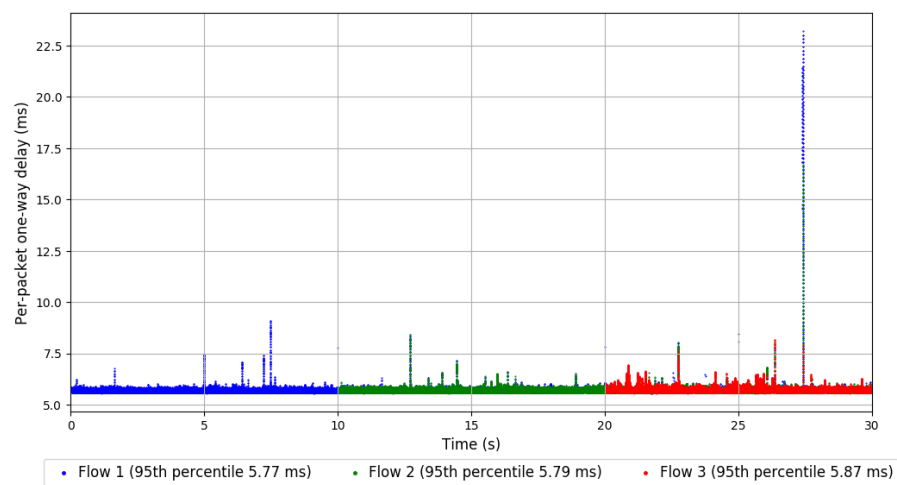
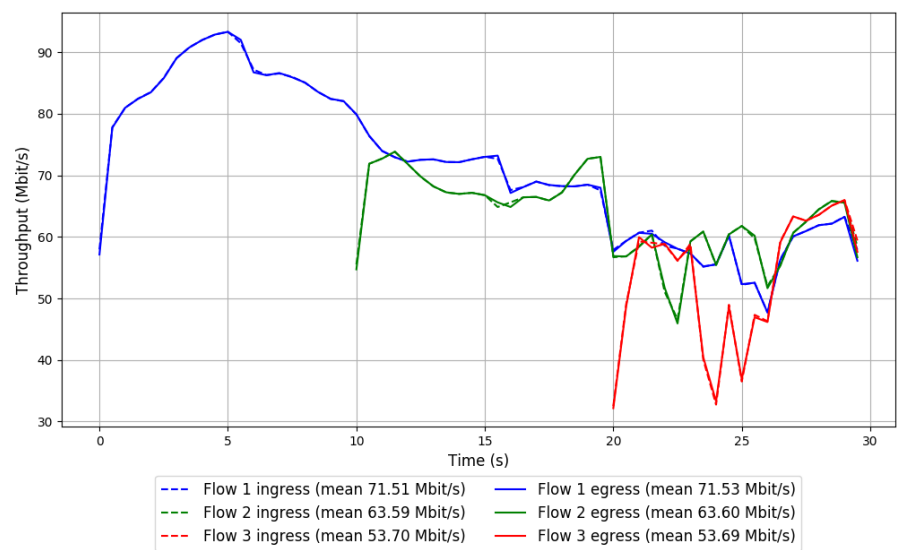
-- Flow 3:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 5.873 ms

Loss rate: 0.24%

Run 10: Report of Copa — Data Link

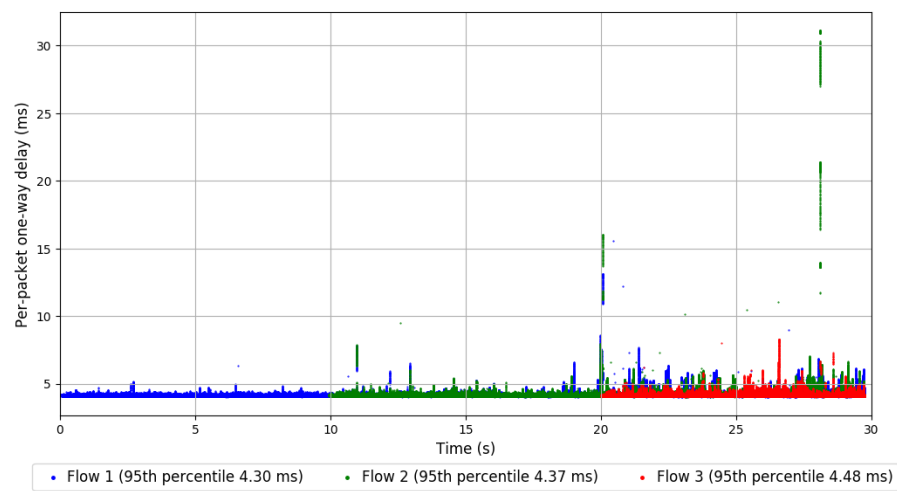
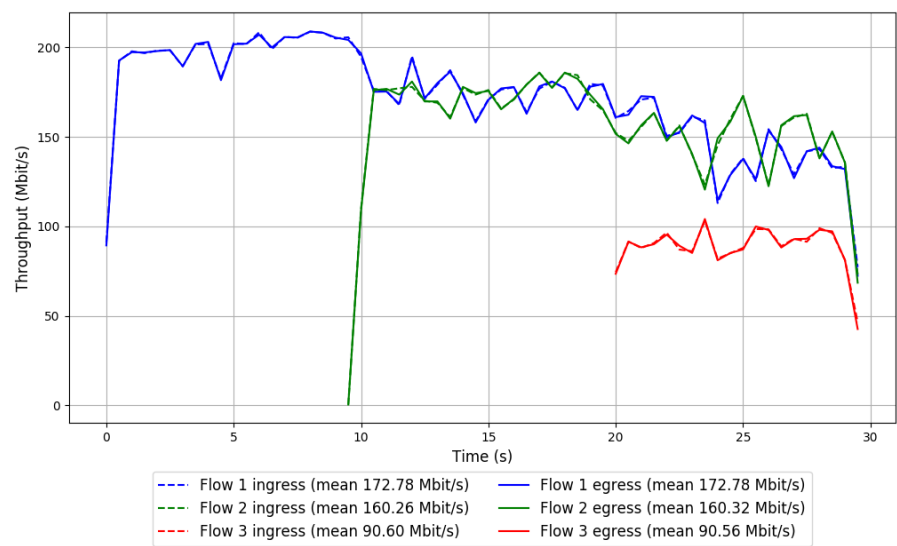


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-27 00:11:41
End at: 2018-01-27 00:12:11
Local clock offset: -2.933 ms

# Below is generated by plot.py at 2018-01-27 18:39:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.08 Mbit/s
95th percentile per-packet one-way delay: 4.349 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 172.78 Mbit/s
95th percentile per-packet one-way delay: 4.302 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 160.32 Mbit/s
95th percentile per-packet one-way delay: 4.369 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 90.56 Mbit/s
95th percentile per-packet one-way delay: 4.483 ms
Loss rate: 0.22%
```

Run 1: Report of Indigo-2-256 — Data Link



Run 2: Statistics of Indigo-2-256

Start at: 2018-01-27 01:02:23

End at: 2018-01-27 01:02:53

Local clock offset: -3.971 ms

Below is generated by plot.py at 2018-01-27 18:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.59 Mbit/s

95th percentile per-packet one-way delay: 6.471 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 171.91 Mbit/s

95th percentile per-packet one-way delay: 6.434 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 158.26 Mbit/s

95th percentile per-packet one-way delay: 6.534 ms

Loss rate: 0.05%

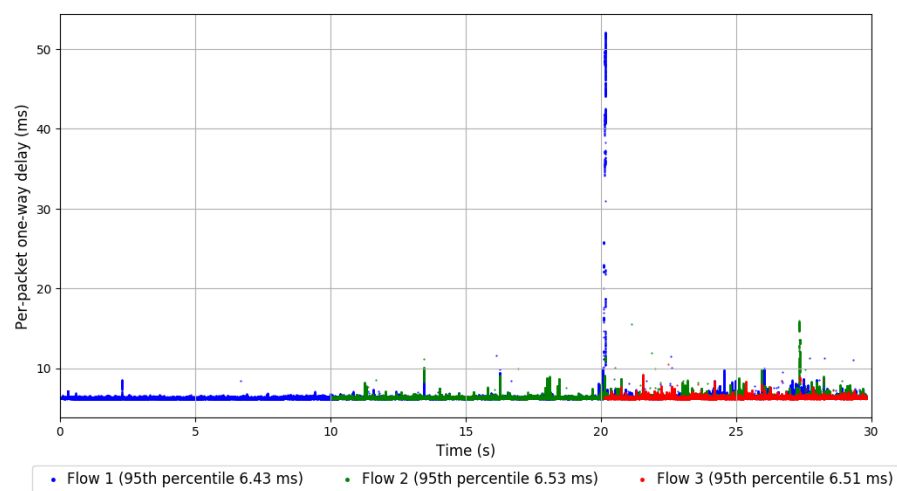
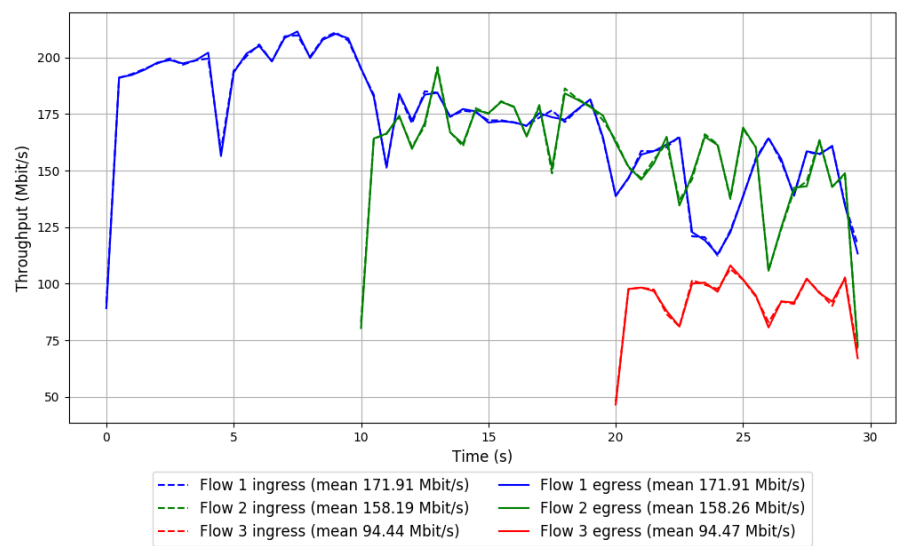
-- Flow 3:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 6.511 ms

Loss rate: 0.16%

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-27 01:53:16

End at: 2018-01-27 01:53:46

Local clock offset: -2.845 ms

Below is generated by plot.py at 2018-01-27 18:40:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.70 Mbit/s

95th percentile per-packet one-way delay: 5.942 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 173.75 Mbit/s

95th percentile per-packet one-way delay: 5.885 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 159.46 Mbit/s

95th percentile per-packet one-way delay: 6.005 ms

Loss rate: 0.09%

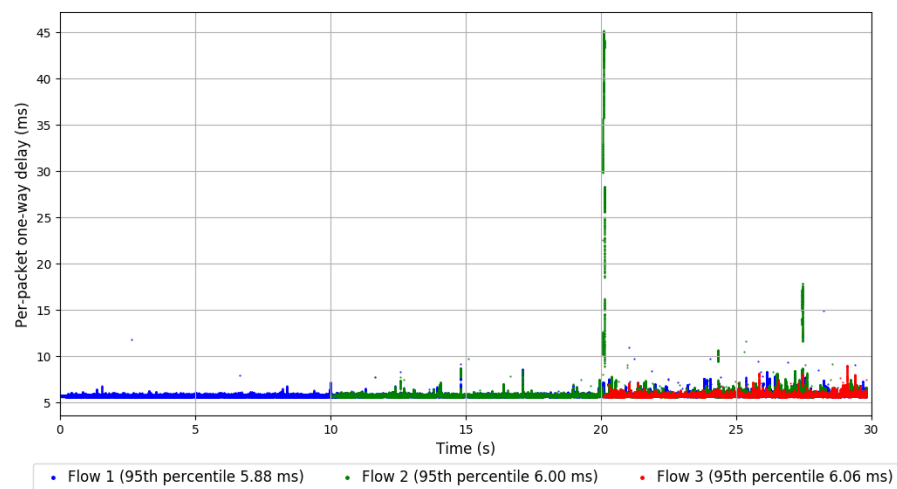
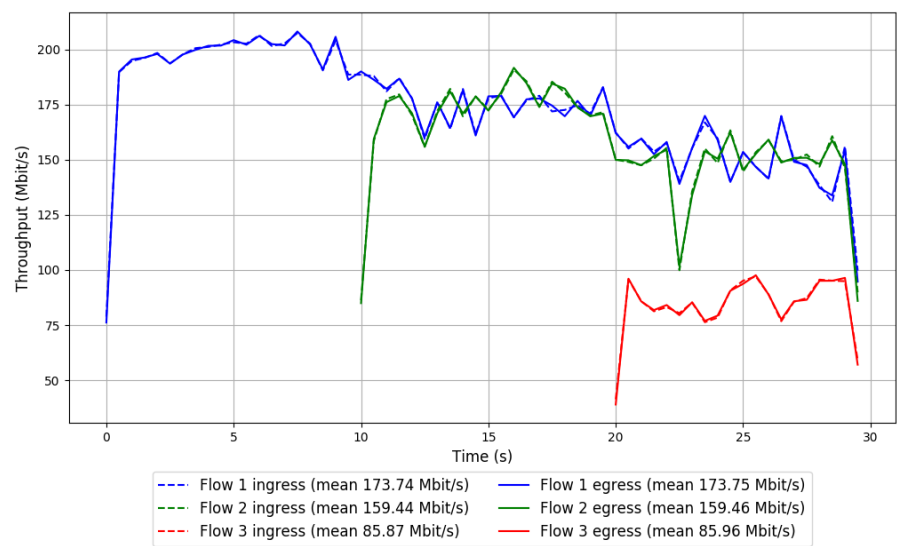
-- Flow 3:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 6.061 ms

Loss rate: 0.13%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-27 02:44:15

End at: 2018-01-27 02:44:45

Local clock offset: -3.235 ms

Below is generated by plot.py at 2018-01-27 18:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.28 Mbit/s

95th percentile per-packet one-way delay: 6.664 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 171.65 Mbit/s

95th percentile per-packet one-way delay: 6.607 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 6.741 ms

Loss rate: 0.09%

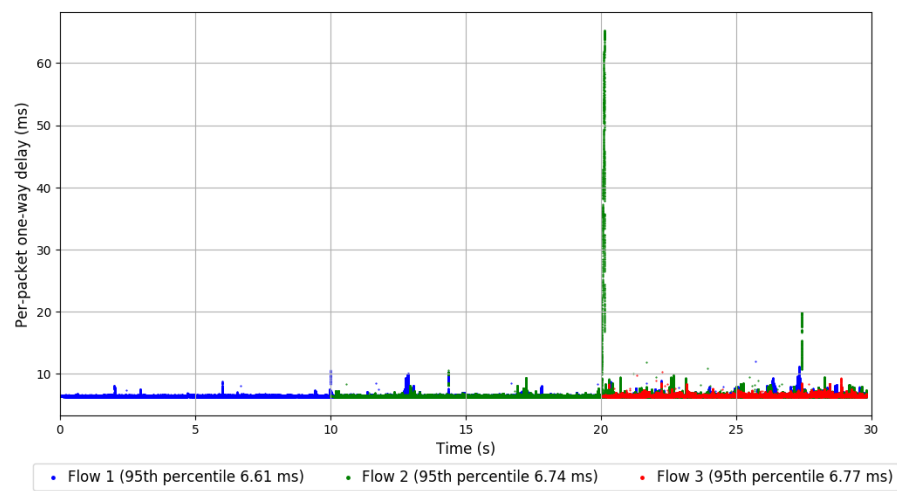
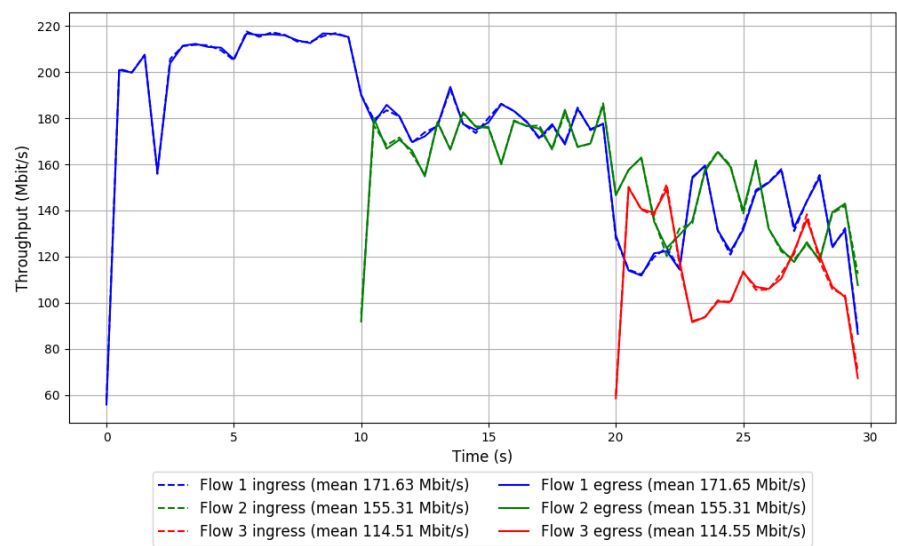
-- Flow 3:

Average throughput: 114.55 Mbit/s

95th percentile per-packet one-way delay: 6.769 ms

Loss rate: 0.17%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-27 03:34:41

End at: 2018-01-27 03:35:11

Local clock offset: -2.152 ms

Below is generated by plot.py at 2018-01-27 18:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.81 Mbit/s

95th percentile per-packet one-way delay: 5.728 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 176.52 Mbit/s

95th percentile per-packet one-way delay: 5.689 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 159.71 Mbit/s

95th percentile per-packet one-way delay: 5.767 ms

Loss rate: 0.10%

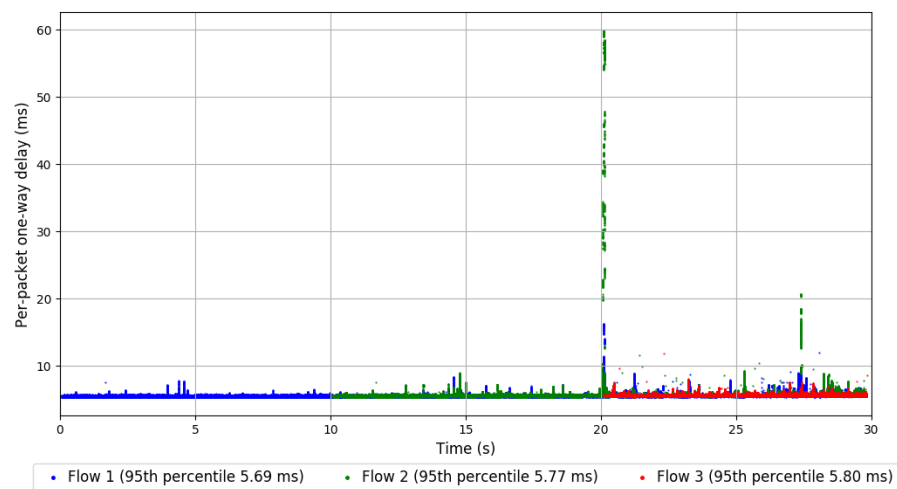
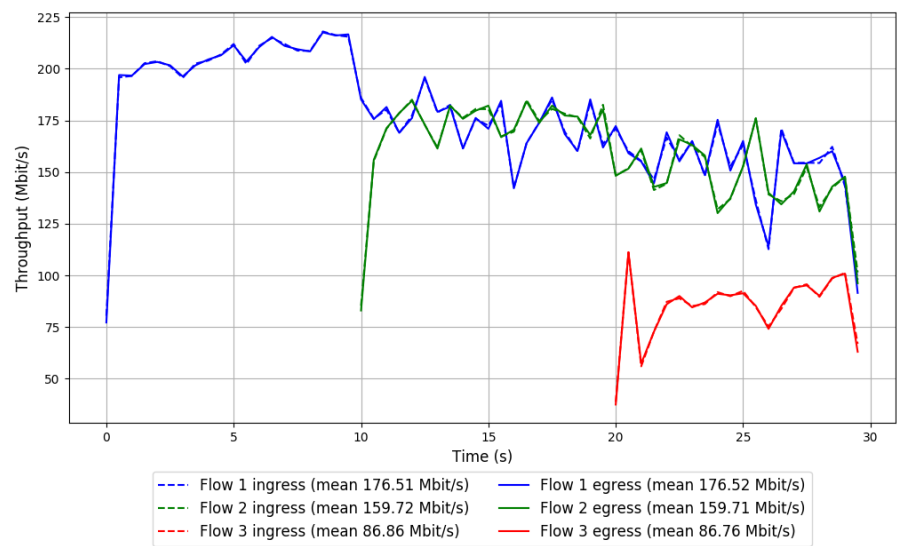
-- Flow 3:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 5.804 ms

Loss rate: 0.27%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-27 04:25:30

End at: 2018-01-27 04:26:00

Local clock offset: -3.239 ms

Below is generated by plot.py at 2018-01-27 18:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.37 Mbit/s

95th percentile per-packet one-way delay: 6.374 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 117.09 Mbit/s

95th percentile per-packet one-way delay: 6.318 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 171.00 Mbit/s

95th percentile per-packet one-way delay: 6.407 ms

Loss rate: 0.12%

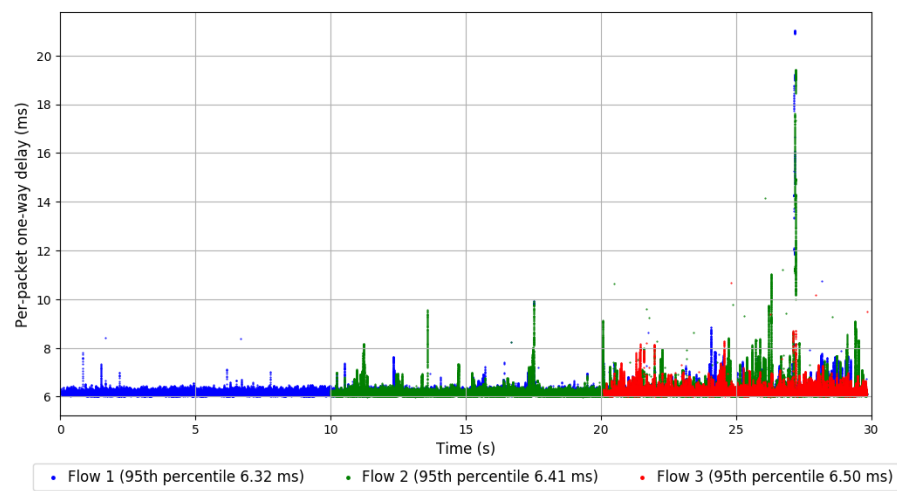
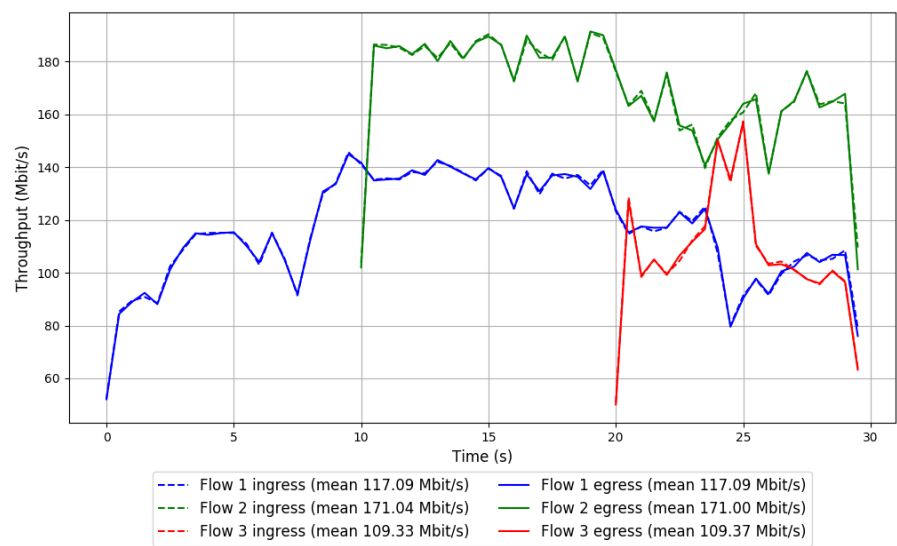
-- Flow 3:

Average throughput: 109.37 Mbit/s

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

Loss rate: 0.13%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-27 05:16:13

End at: 2018-01-27 05:16:43

Local clock offset: -2.888 ms

Below is generated by plot.py at 2018-01-27 18:42:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.73 Mbit/s

95th percentile per-packet one-way delay: 5.780 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 176.88 Mbit/s

95th percentile per-packet one-way delay: 5.750 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 159.51 Mbit/s

95th percentile per-packet one-way delay: 5.856 ms

Loss rate: 0.10%

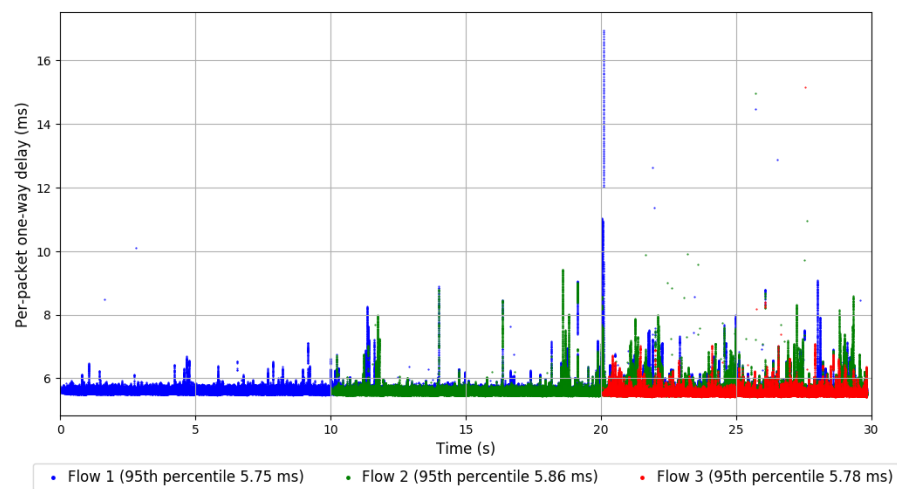
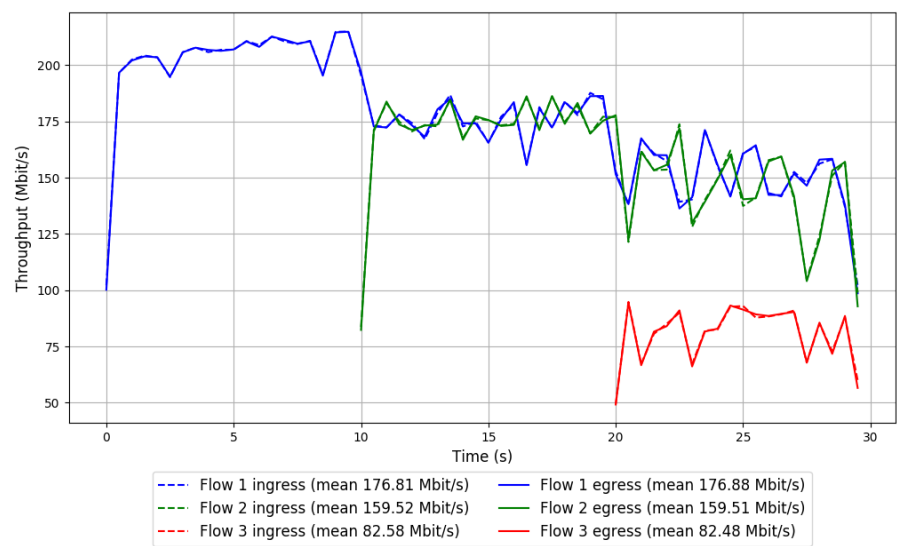
-- Flow 3:

Average throughput: 82.48 Mbit/s

95th percentile per-packet one-way delay: 5.784 ms

Loss rate: 0.26%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-27 06:07:00

End at: 2018-01-27 06:07:30

Local clock offset: -3.377 ms

Below is generated by plot.py at 2018-01-27 18:42:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.21 Mbit/s

95th percentile per-packet one-way delay: 6.538 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 169.45 Mbit/s

95th percentile per-packet one-way delay: 6.496 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 161.69 Mbit/s

95th percentile per-packet one-way delay: 6.569 ms

Loss rate: 0.10%

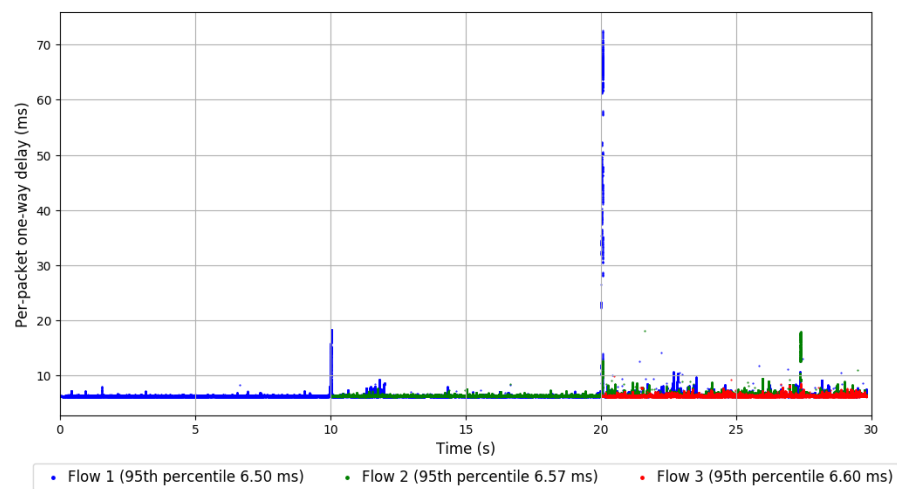
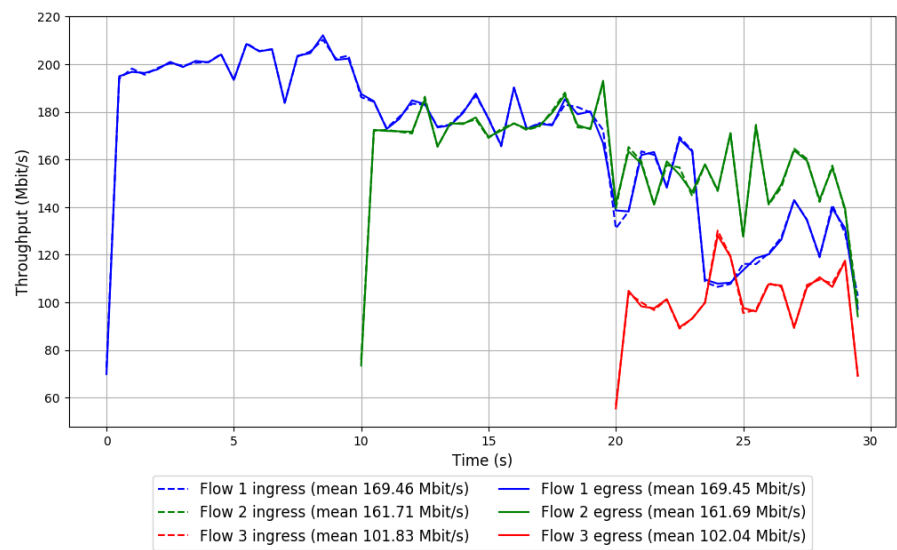
-- Flow 3:

Average throughput: 102.04 Mbit/s

95th percentile per-packet one-way delay: 6.596 ms

Loss rate: 0.13%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-27 06:57:57

End at: 2018-01-27 06:58:27

Local clock offset: -3.574 ms

Below is generated by plot.py at 2018-01-27 18:43:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.06 Mbit/s

95th percentile per-packet one-way delay: 4.947 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 173.74 Mbit/s

95th percentile per-packet one-way delay: 4.958 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 158.94 Mbit/s

95th percentile per-packet one-way delay: 4.905 ms

Loss rate: 0.11%

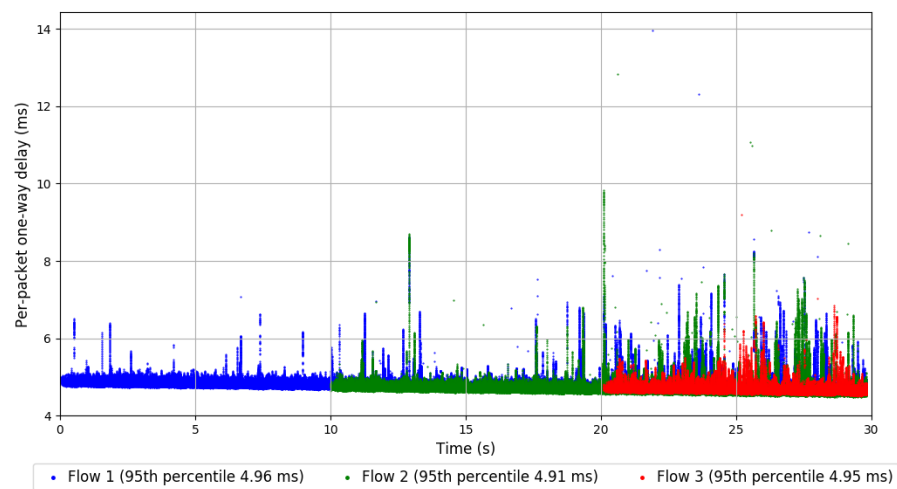
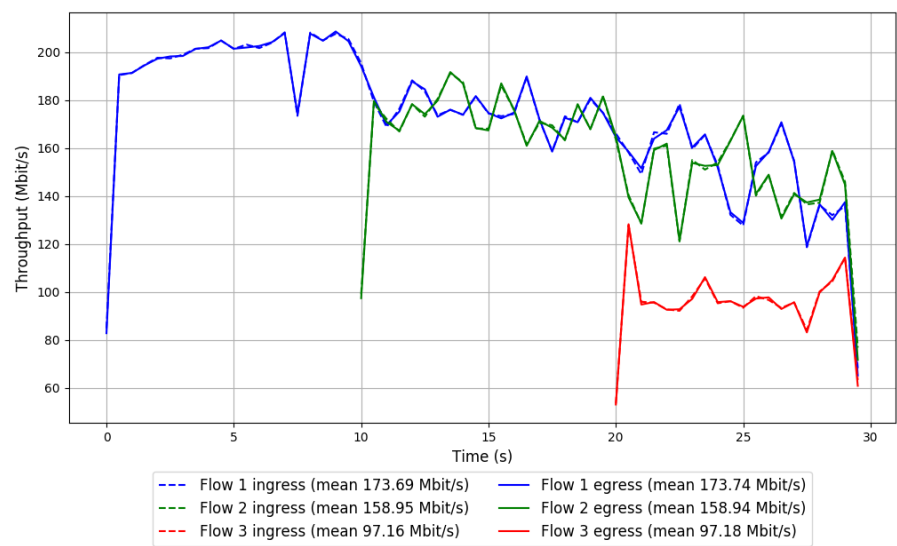
-- Flow 3:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 4.947 ms

Loss rate: 0.19%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-27 07:48:53

End at: 2018-01-27 07:49:23

Local clock offset: -2.594 ms

Below is generated by plot.py at 2018-01-27 18:44:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.28 Mbit/s

95th percentile per-packet one-way delay: 5.415 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 171.86 Mbit/s

95th percentile per-packet one-way delay: 5.365 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 158.72 Mbit/s

95th percentile per-packet one-way delay: 5.467 ms

Loss rate: 0.12%

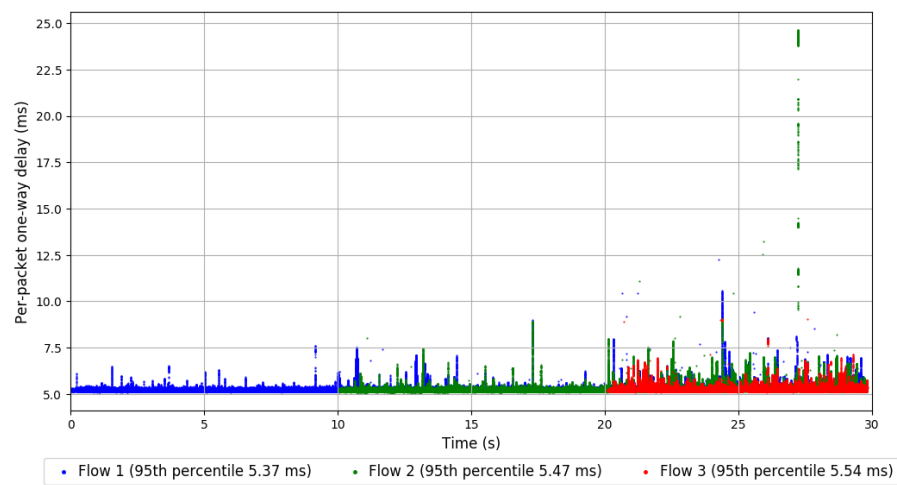
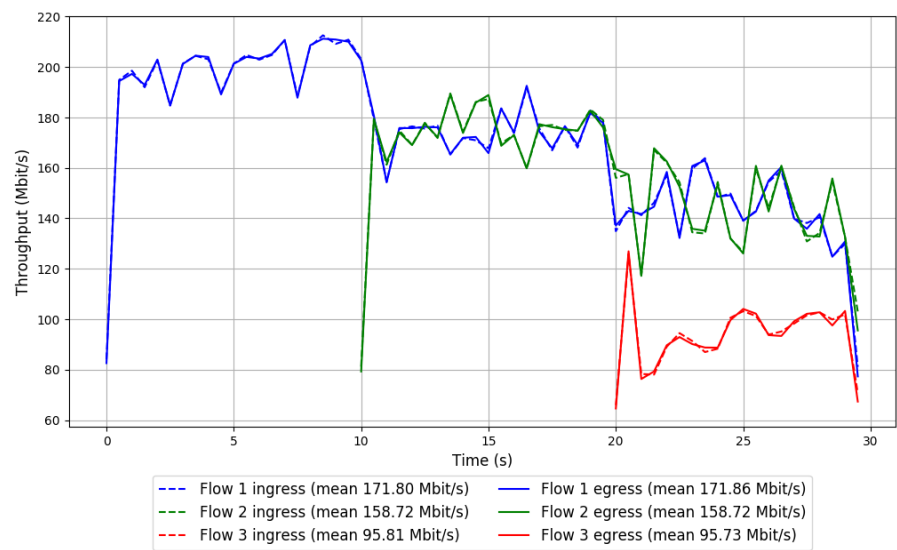
-- Flow 3:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 5.539 ms

Loss rate: 0.27%

Run 10: Report of Indigo-2-256 — Data Link

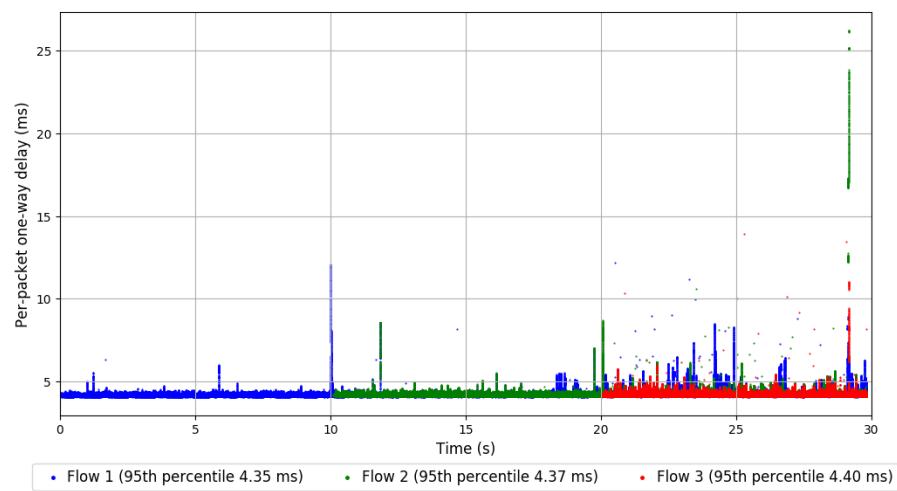
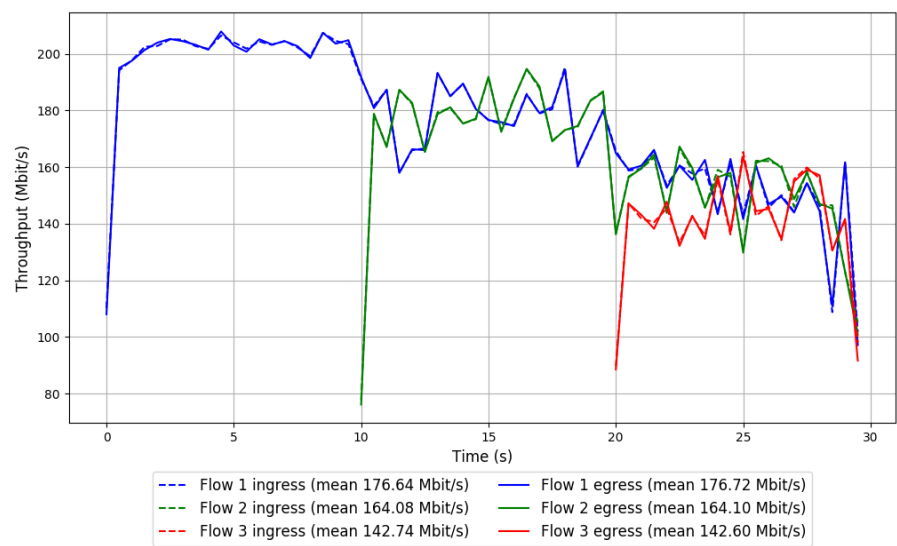


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-27 00:34:01
End at: 2018-01-27 00:34:31
Local clock offset: -2.497 ms

# Below is generated by plot.py at 2018-01-27 18:44:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.03 Mbit/s
95th percentile per-packet one-way delay: 4.365 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 176.72 Mbit/s
95th percentile per-packet one-way delay: 4.351 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 164.10 Mbit/s
95th percentile per-packet one-way delay: 4.366 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 142.60 Mbit/s
95th percentile per-packet one-way delay: 4.404 ms
Loss rate: 0.26%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-27 01:24:45

End at: 2018-01-27 01:25:16

Local clock offset: -3.188 ms

Below is generated by plot.py at 2018-01-27 18:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.09 Mbit/s

95th percentile per-packet one-way delay: 5.800 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 177.42 Mbit/s

95th percentile per-packet one-way delay: 5.757 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 162.73 Mbit/s

95th percentile per-packet one-way delay: 5.861 ms

Loss rate: 0.08%

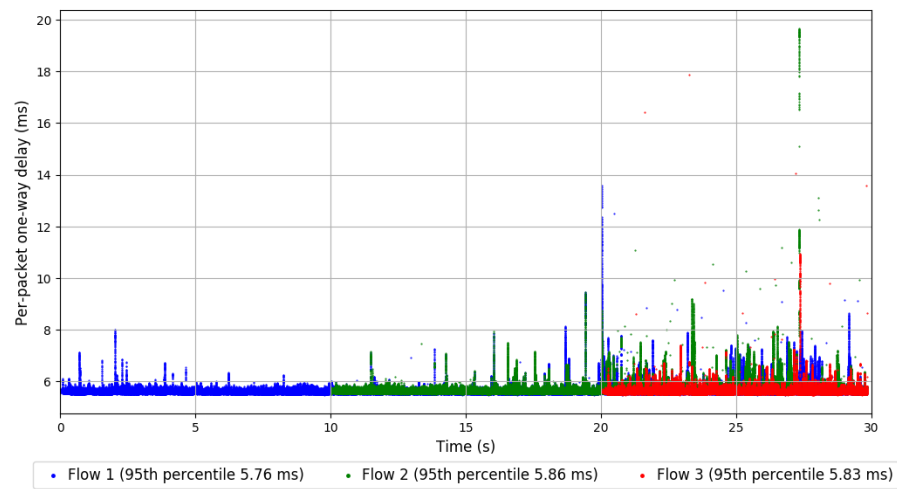
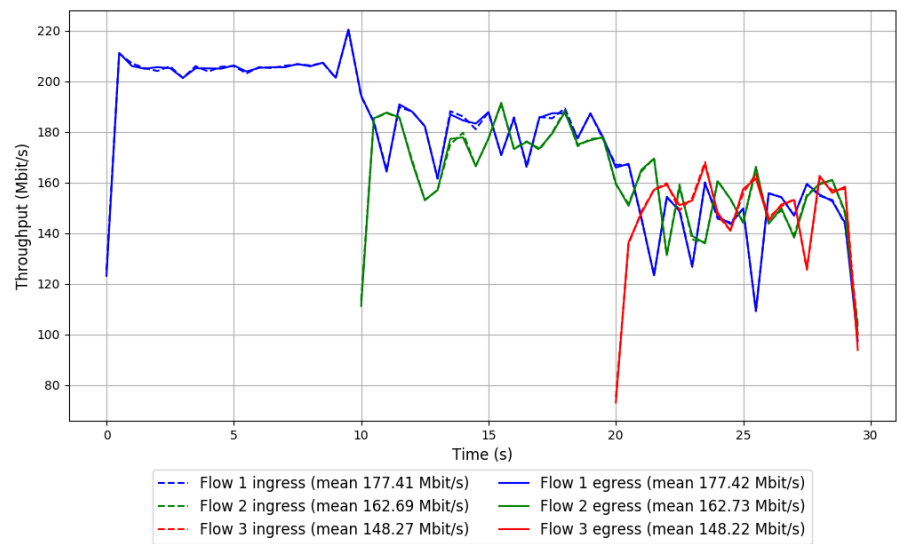
-- Flow 3:

Average throughput: 148.22 Mbit/s

95th percentile per-packet one-way delay: 5.830 ms

Loss rate: 0.20%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-27 02:15:39

End at: 2018-01-27 02:16:09

Local clock offset: -3.108 ms

Below is generated by plot.py at 2018-01-27 18:46:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.16 Mbit/s

95th percentile per-packet one-way delay: 6.476 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 175.94 Mbit/s

95th percentile per-packet one-way delay: 6.450 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 163.58 Mbit/s

95th percentile per-packet one-way delay: 6.493 ms

Loss rate: 0.10%

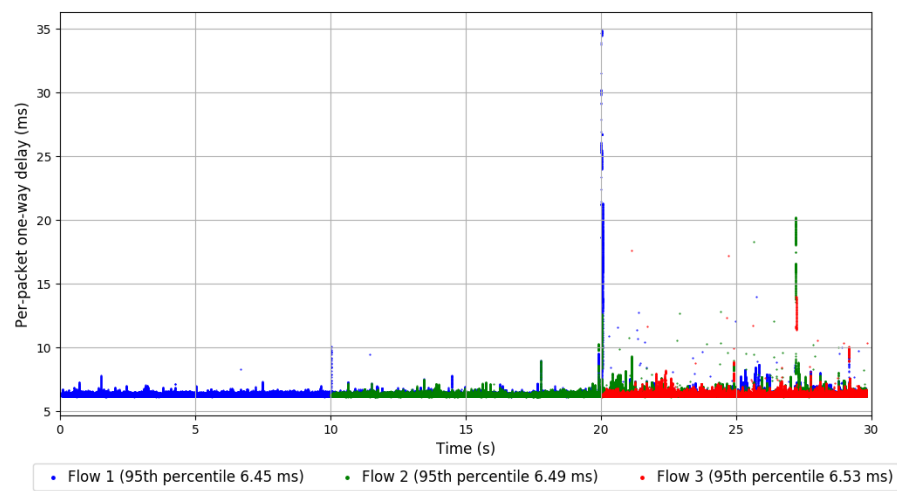
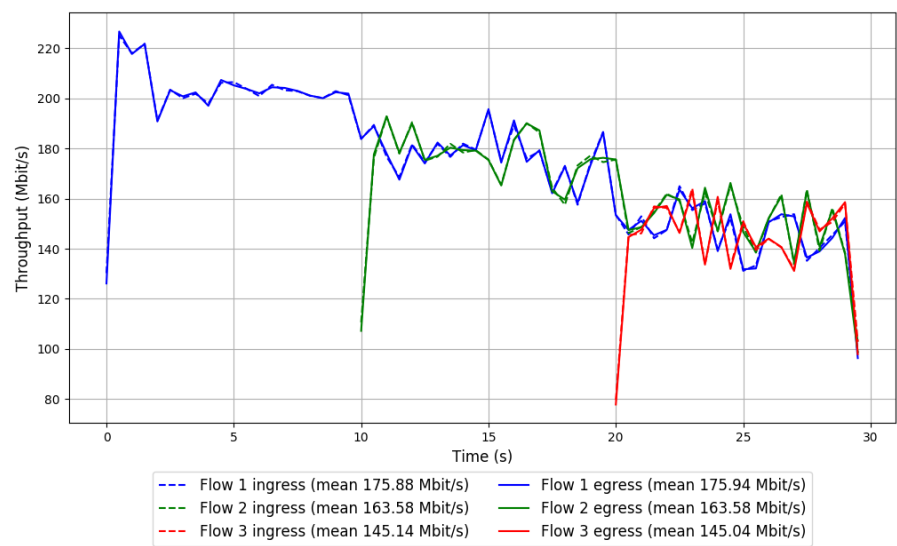
-- Flow 3:

Average throughput: 145.04 Mbit/s

95th percentile per-packet one-way delay: 6.534 ms

Loss rate: 0.23%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-27 03:06:31

End at: 2018-01-27 03:07:01

Local clock offset: -2.284 ms

Below is generated by plot.py at 2018-01-27 18:46:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.97 Mbit/s

95th percentile per-packet one-way delay: 5.659 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 175.26 Mbit/s

95th percentile per-packet one-way delay: 5.621 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 163.27 Mbit/s

95th percentile per-packet one-way delay: 5.693 ms

Loss rate: 0.07%

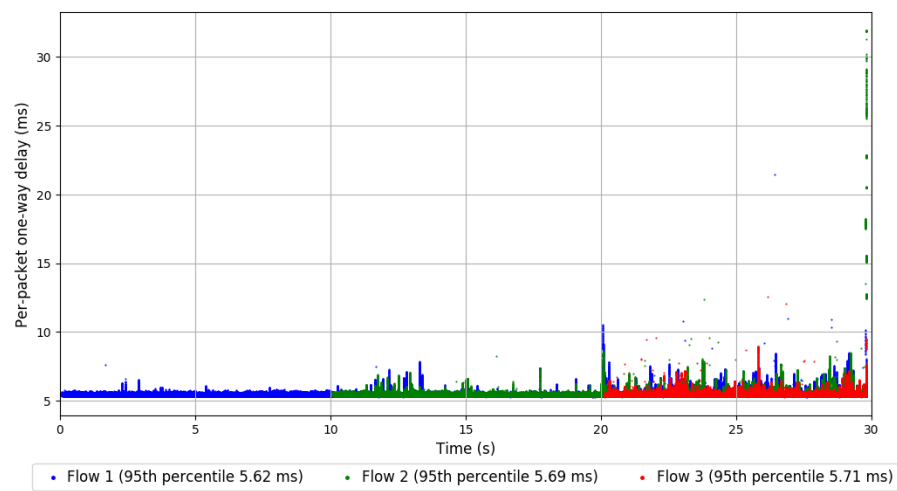
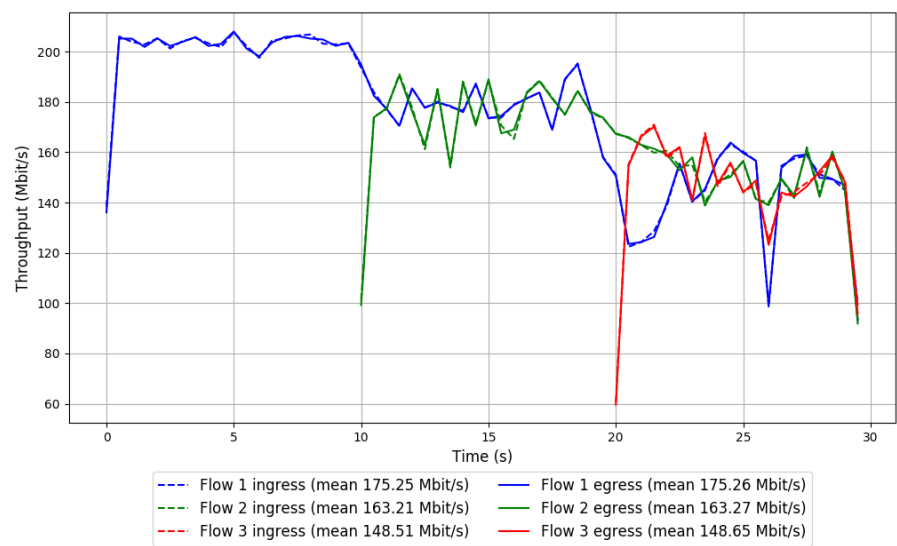
-- Flow 3:

Average throughput: 148.65 Mbit/s

95th percentile per-packet one-way delay: 5.707 ms

Loss rate: 0.15%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-27 03:56:57

End at: 2018-01-27 03:57:27

Local clock offset: -3.455 ms

Below is generated by plot.py at 2018-01-27 18:46:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.41 Mbit/s

95th percentile per-packet one-way delay: 6.721 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 174.95 Mbit/s

95th percentile per-packet one-way delay: 6.657 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 162.25 Mbit/s

95th percentile per-packet one-way delay: 6.890 ms

Loss rate: 0.09%

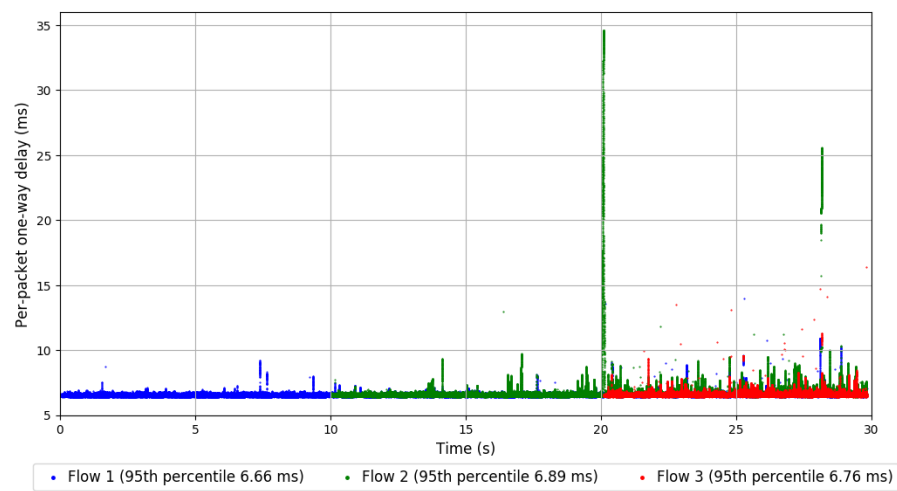
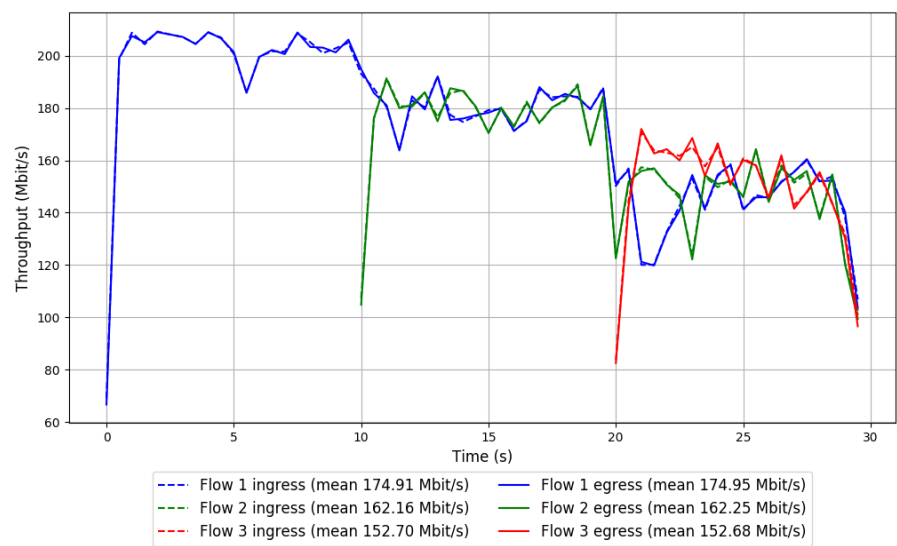
-- Flow 3:

Average throughput: 152.68 Mbit/s

95th percentile per-packet one-way delay: 6.765 ms

Loss rate: 0.22%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-27 04:47:45

End at: 2018-01-27 04:48:15

Local clock offset: -3.193 ms

Below is generated by plot.py at 2018-01-27 18:47:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.01 Mbit/s

95th percentile per-packet one-way delay: 6.282 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 174.06 Mbit/s

95th percentile per-packet one-way delay: 6.260 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 162.78 Mbit/s

95th percentile per-packet one-way delay: 6.270 ms

Loss rate: 0.05%

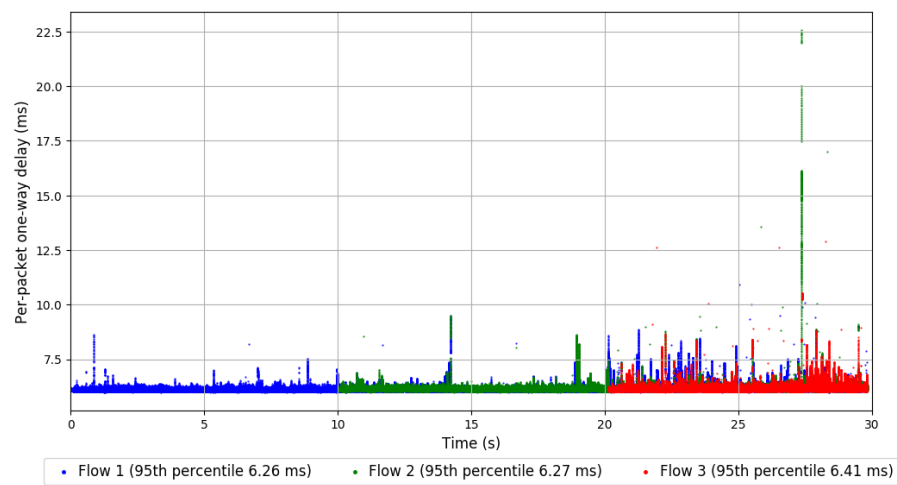
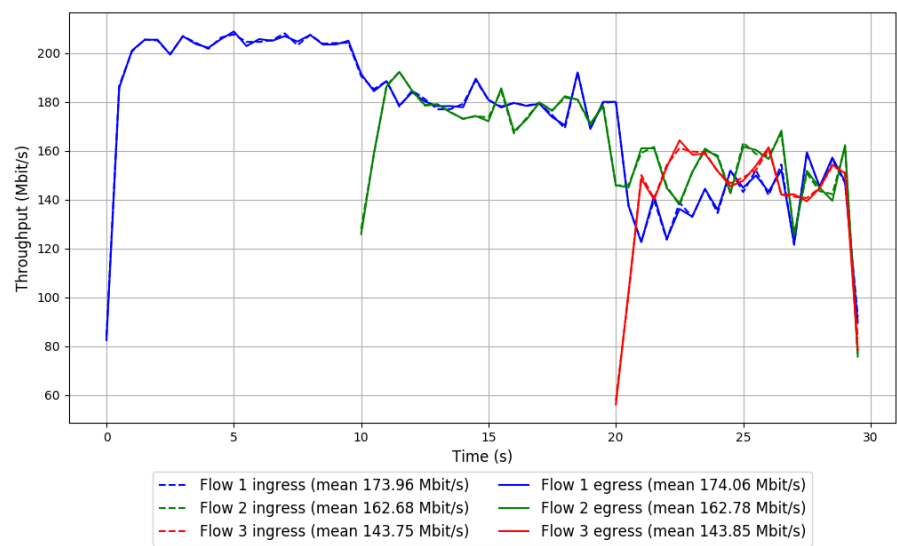
-- Flow 3:

Average throughput: 143.85 Mbit/s

95th percentile per-packet one-way delay: 6.405 ms

Loss rate: 0.23%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-27 05:38:24

End at: 2018-01-27 05:38:54

Local clock offset: -1.821 ms

Below is generated by plot.py at 2018-01-27 18:48:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.47 Mbit/s

95th percentile per-packet one-way delay: 4.818 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 171.34 Mbit/s

95th percentile per-packet one-way delay: 4.771 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 161.36 Mbit/s

95th percentile per-packet one-way delay: 4.847 ms

Loss rate: 0.11%

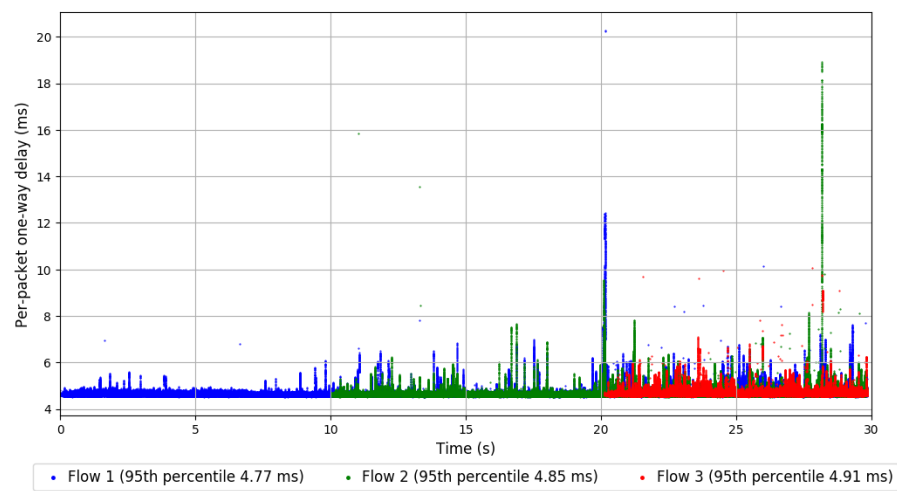
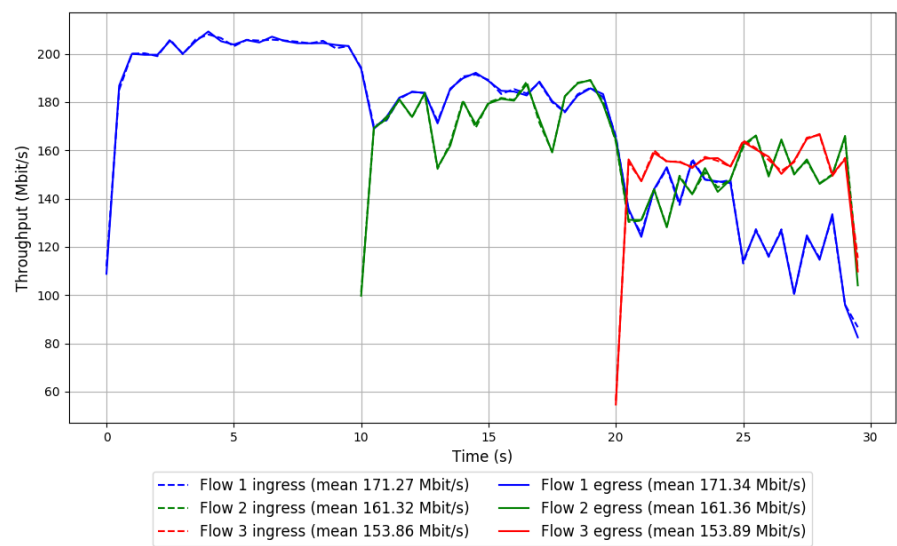
-- Flow 3:

Average throughput: 153.89 Mbit/s

95th percentile per-packet one-way delay: 4.911 ms

Loss rate: 0.23%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-27 06:29:23

End at: 2018-01-27 06:29:53

Local clock offset: -4.1 ms

Below is generated by plot.py at 2018-01-27 18:48:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.10 Mbit/s

95th percentile per-packet one-way delay: 6.970 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 177.82 Mbit/s

95th percentile per-packet one-way delay: 6.923 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 164.15 Mbit/s

95th percentile per-packet one-way delay: 7.000 ms

Loss rate: 0.09%

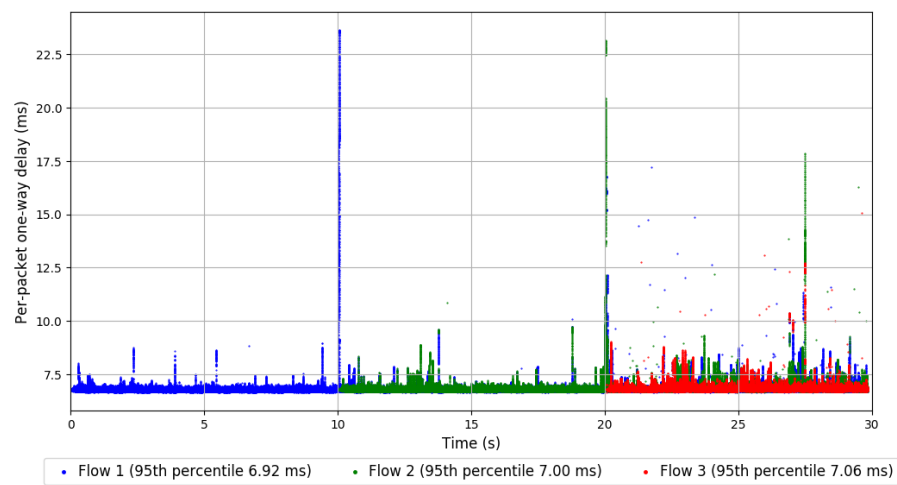
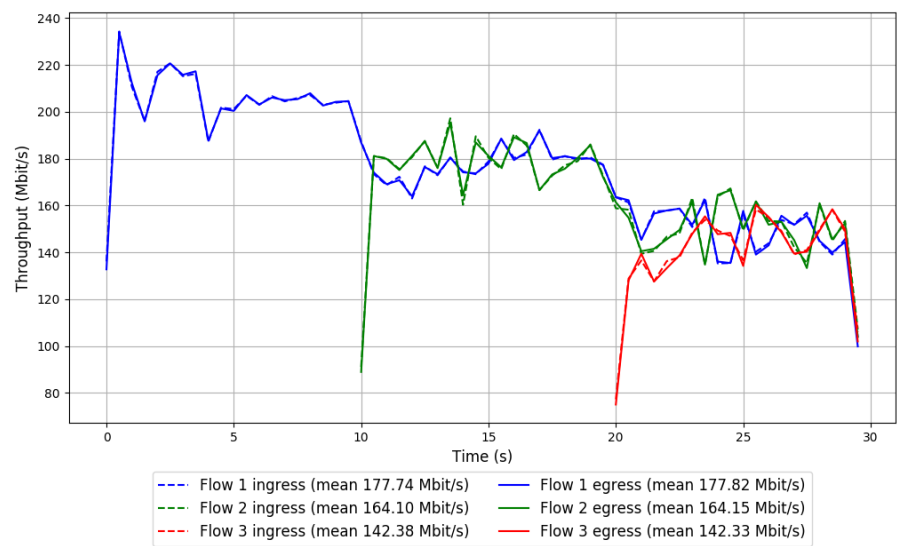
-- Flow 3:

Average throughput: 142.33 Mbit/s

95th percentile per-packet one-way delay: 7.056 ms

Loss rate: 0.22%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-27 07:20:19

End at: 2018-01-27 07:20:49

Local clock offset: 2.632 ms

Below is generated by plot.py at 2018-01-27 18:49:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.79 Mbit/s

95th percentile per-packet one-way delay: -0.145 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 180.03 Mbit/s

95th percentile per-packet one-way delay: -0.200 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 161.25 Mbit/s

95th percentile per-packet one-way delay: -0.064 ms

Loss rate: 0.10%

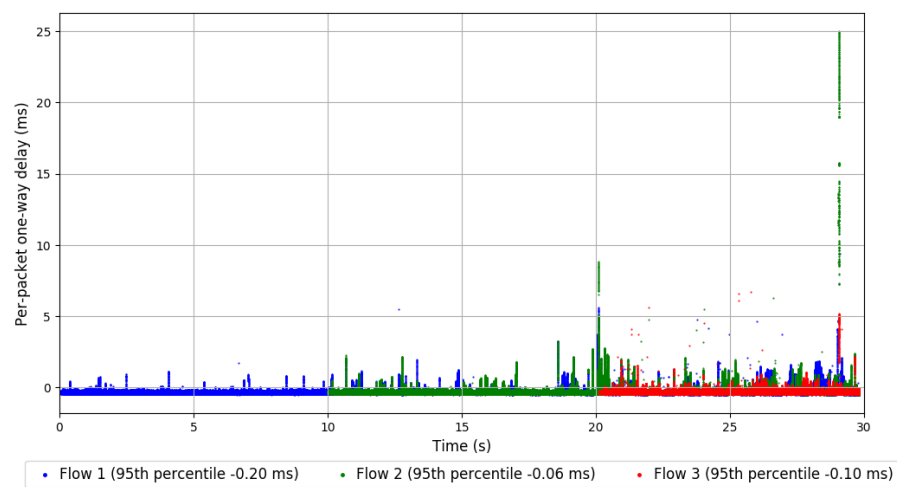
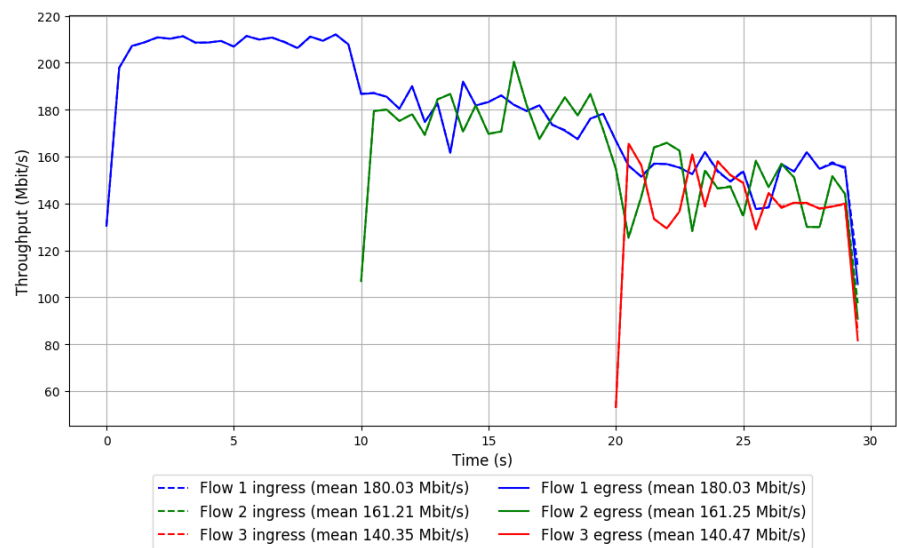
-- Flow 3:

Average throughput: 140.47 Mbit/s

95th percentile per-packet one-way delay: -0.097 ms

Loss rate: 0.12%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-27 08:11:11

End at: 2018-01-27 08:11:41

Local clock offset: -0.76 ms

Below is generated by plot.py at 2018-01-27 18:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.33 Mbit/s

95th percentile per-packet one-way delay: 2.606 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 2.619 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 162.09 Mbit/s

95th percentile per-packet one-way delay: 2.565 ms

Loss rate: 0.08%

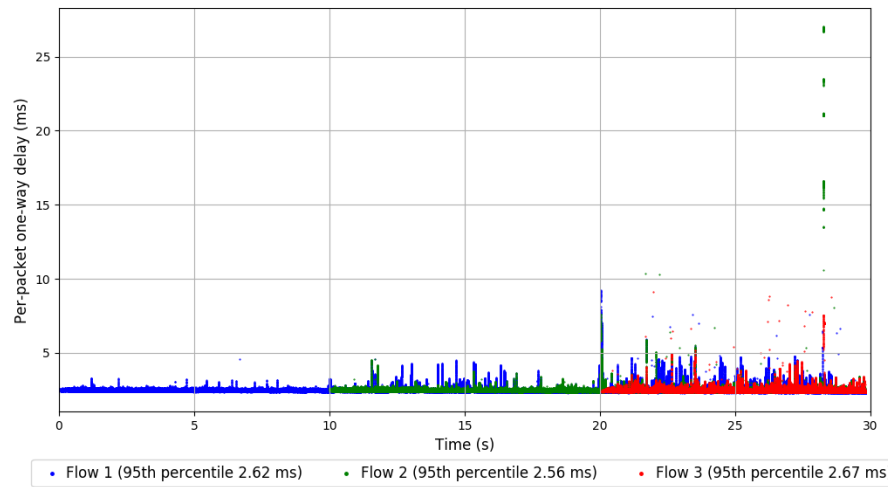
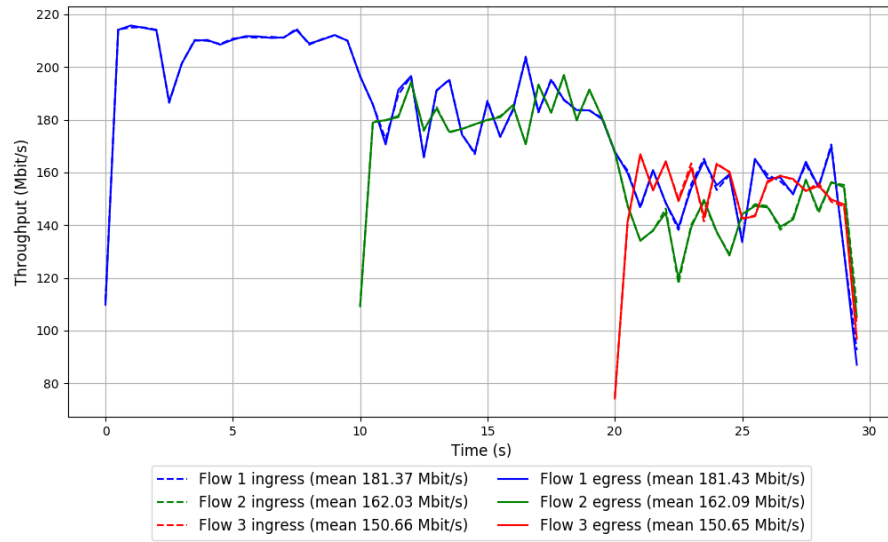
-- Flow 3:

Average throughput: 150.65 Mbit/s

95th percentile per-packet one-way delay: 2.667 ms

Loss rate: 0.18%

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



Run 1: Statistics of Indigo-1-128

Start at: 2018-01-27 00:24:11

End at: 2018-01-27 00:24:41

Local clock offset: -2.378 ms

Below is generated by plot.py at 2018-01-27 18:50:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.38 Mbit/s

95th percentile per-packet one-way delay: 4.175 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 186.35 Mbit/s

95th percentile per-packet one-way delay: 4.105 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 165.91 Mbit/s

95th percentile per-packet one-way delay: 4.345 ms

Loss rate: 0.10%

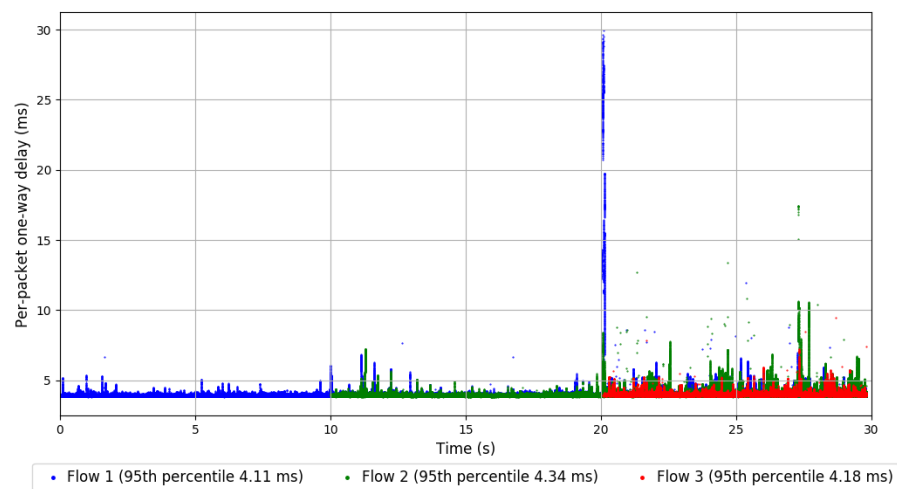
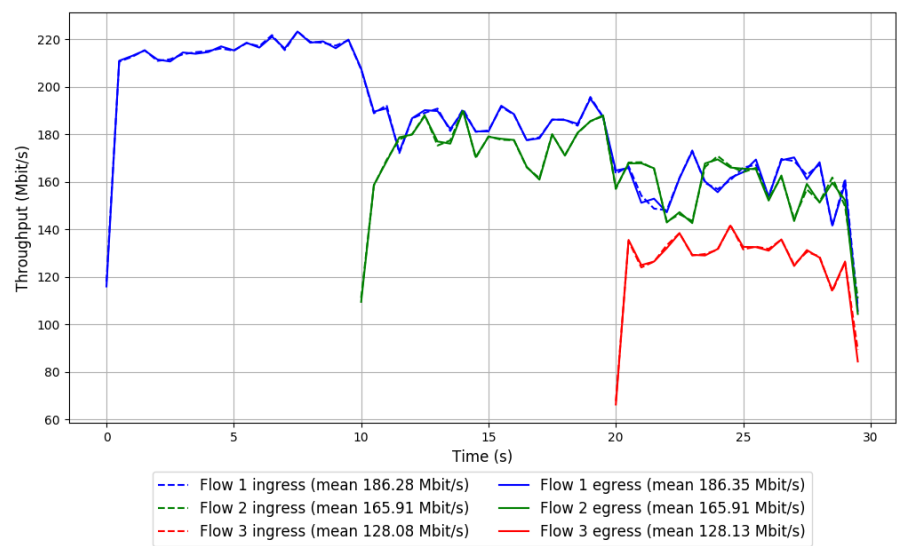
-- Flow 3:

Average throughput: 128.13 Mbit/s

95th percentile per-packet one-way delay: 4.179 ms

Loss rate: 0.22%

Run 1: Report of Indigo-1-128 — Data Link



Run 2: Statistics of Indigo-1-128

Start at: 2018-01-27 01:14:57

End at: 2018-01-27 01:15:27

Local clock offset: -4.472 ms

Below is generated by plot.py at 2018-01-27 18:50:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.98 Mbit/s

95th percentile per-packet one-way delay: 6.696 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 183.62 Mbit/s

95th percentile per-packet one-way delay: 6.660 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 164.87 Mbit/s

95th percentile per-packet one-way delay: 6.743 ms

Loss rate: 0.09%

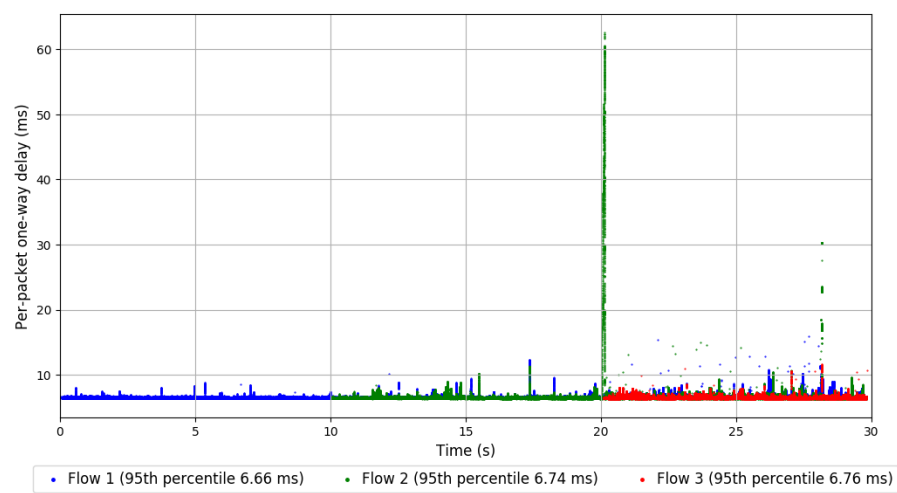
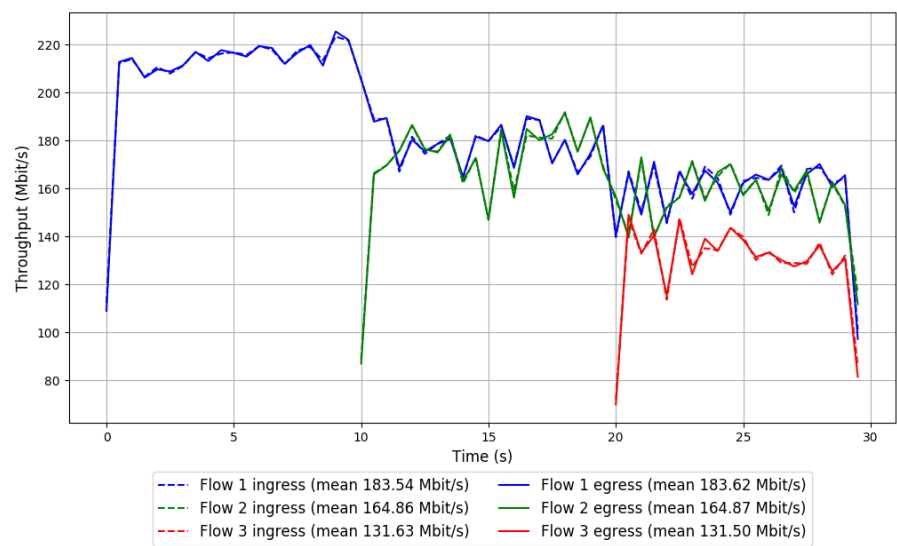
-- Flow 3:

Average throughput: 131.50 Mbit/s

95th percentile per-packet one-way delay: 6.757 ms

Loss rate: 0.24%

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-27 02:05:46

End at: 2018-01-27 02:06:16

Local clock offset: -3.122 ms

Below is generated by plot.py at 2018-01-27 18:51:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.53 Mbit/s

95th percentile per-packet one-way delay: 6.364 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 187.44 Mbit/s

95th percentile per-packet one-way delay: 6.294 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 167.72 Mbit/s

95th percentile per-packet one-way delay: 6.420 ms

Loss rate: 0.09%

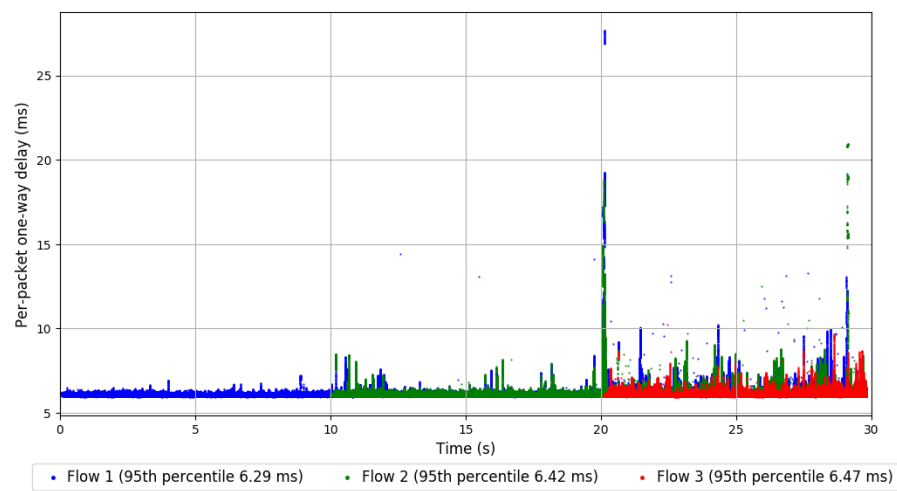
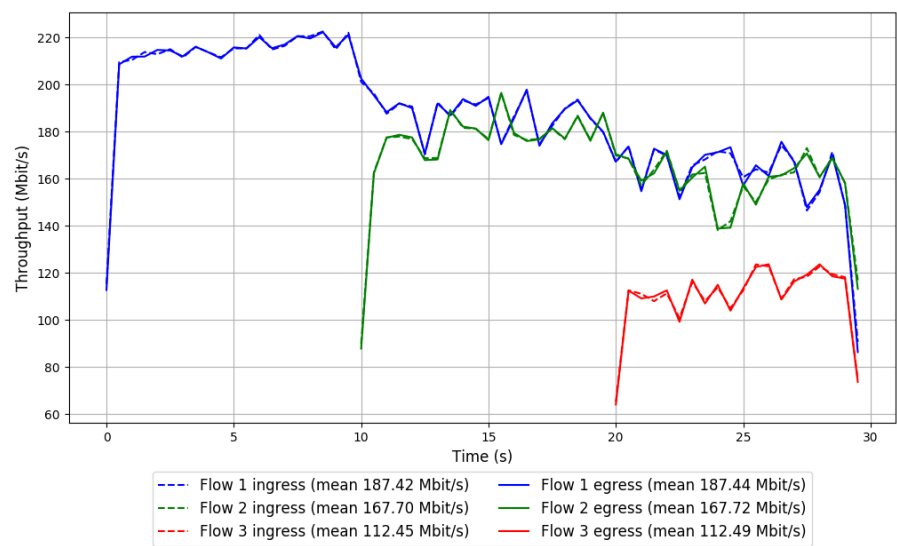
-- Flow 3:

Average throughput: 112.49 Mbit/s

95th percentile per-packet one-way delay: 6.469 ms

Loss rate: 0.14%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-27 02:56:45

End at: 2018-01-27 02:57:15

Local clock offset: -3.237 ms

Below is generated by plot.py at 2018-01-27 18:51:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.26 Mbit/s

95th percentile per-packet one-way delay: 6.375 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 186.05 Mbit/s

95th percentile per-packet one-way delay: 6.358 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 169.73 Mbit/s

95th percentile per-packet one-way delay: 6.391 ms

Loss rate: 0.07%

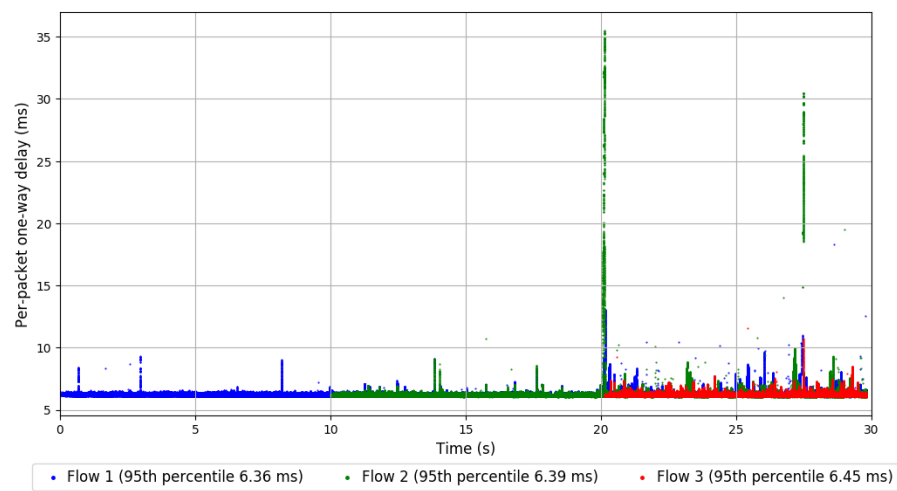
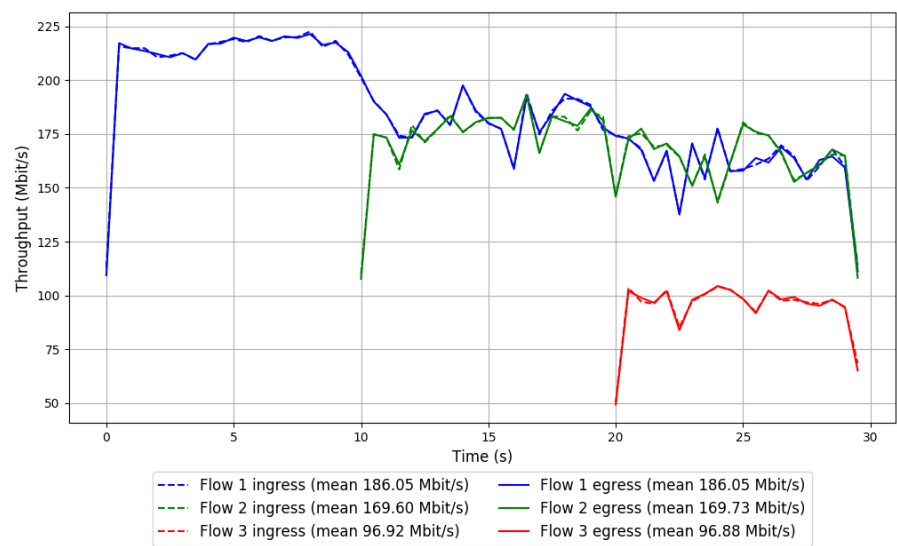
-- Flow 3:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 6.448 ms

Loss rate: 0.24%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-27 03:47:09

End at: 2018-01-27 03:47:39

Local clock offset: -3.096 ms

Below is generated by plot.py at 2018-01-27 18:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.44 Mbit/s

95th percentile per-packet one-way delay: 6.542 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 182.10 Mbit/s

95th percentile per-packet one-way delay: 6.529 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 164.52 Mbit/s

95th percentile per-packet one-way delay: 6.554 ms

Loss rate: 0.13%

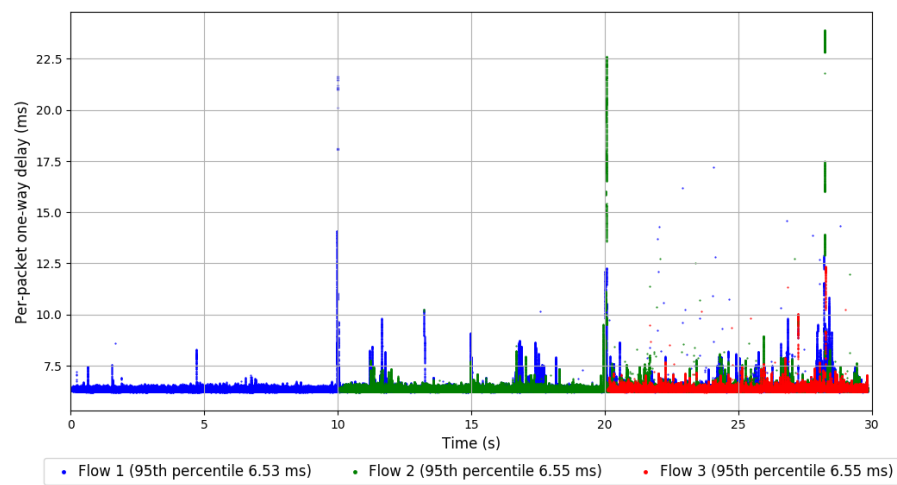
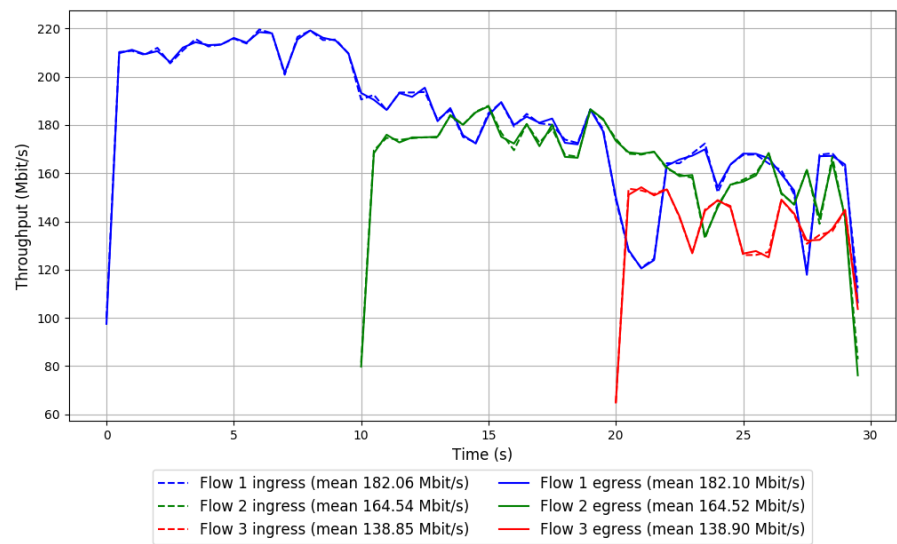
-- Flow 3:

Average throughput: 138.90 Mbit/s

95th percentile per-packet one-way delay: 6.554 ms

Loss rate: 0.16%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-27 04:37:57

End at: 2018-01-27 04:38:27

Local clock offset: -3.316 ms

Below is generated by plot.py at 2018-01-27 18:53:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.41 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 183.74 Mbit/s

95th percentile per-packet one-way delay: 6.446 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 168.53 Mbit/s

95th percentile per-packet one-way delay: 6.497 ms

Loss rate: 0.11%

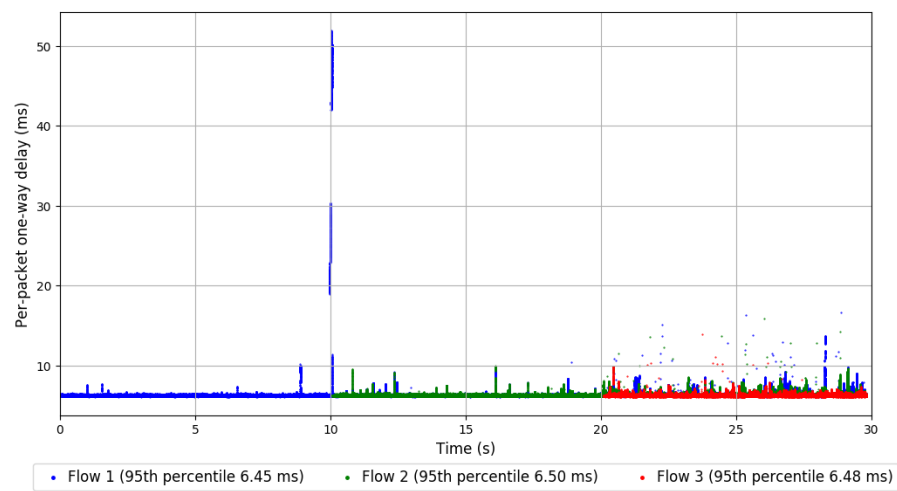
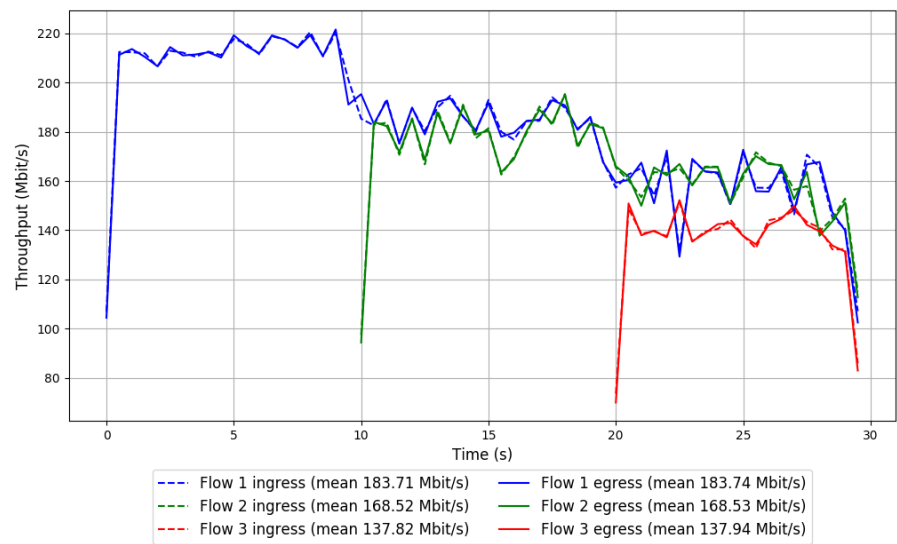
-- Flow 3:

Average throughput: 137.94 Mbit/s

95th percentile per-packet one-way delay: 6.483 ms

Loss rate: 0.21%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-27 05:28:42

End at: 2018-01-27 05:29:12

Local clock offset: -2.07 ms

Below is generated by plot.py at 2018-01-27 18:53:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.85 Mbit/s

95th percentile per-packet one-way delay: 5.061 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 183.31 Mbit/s

95th percentile per-packet one-way delay: 5.029 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 162.99 Mbit/s

95th percentile per-packet one-way delay: 5.093 ms

Loss rate: 0.13%

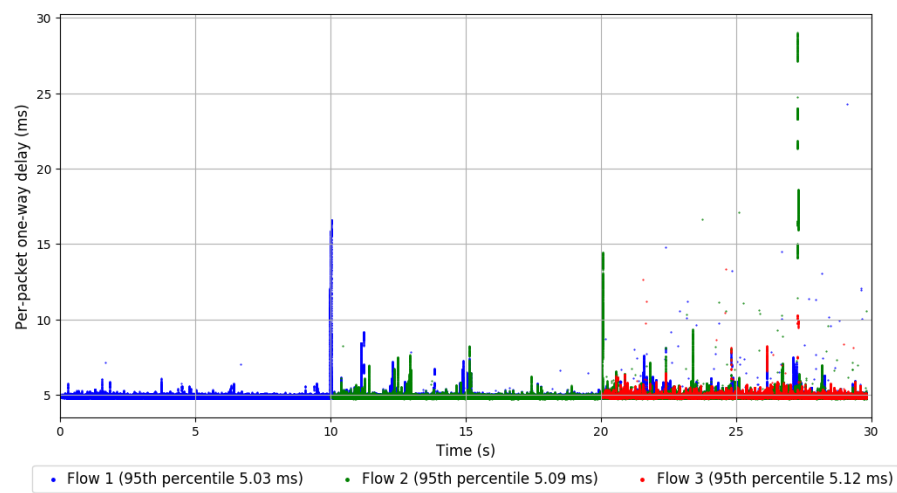
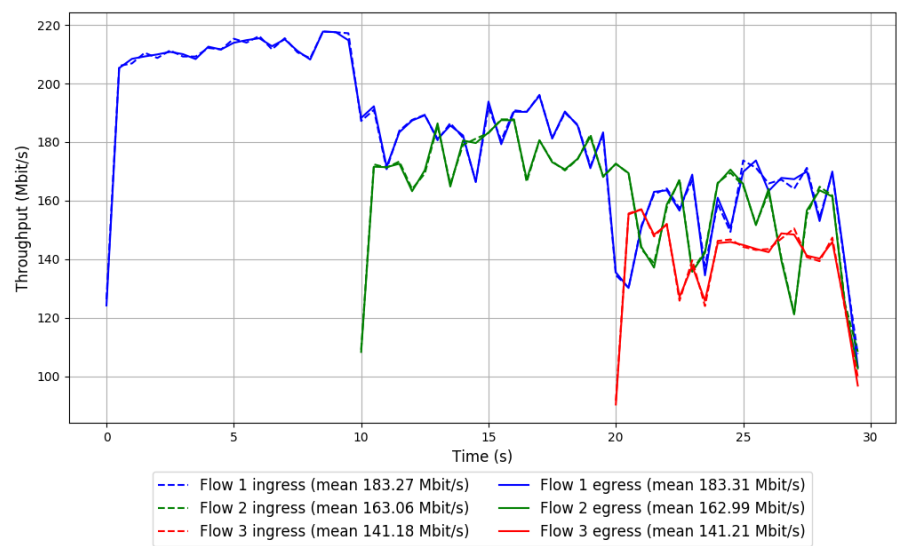
-- Flow 3:

Average throughput: 141.21 Mbit/s

95th percentile per-packet one-way delay: 5.123 ms

Loss rate: 0.16%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-27 06:19:30

End at: 2018-01-27 06:20:00

Local clock offset: -3.89 ms

Below is generated by plot.py at 2018-01-27 18:53:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.54 Mbit/s

95th percentile per-packet one-way delay: 6.811 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 185.56 Mbit/s

95th percentile per-packet one-way delay: 6.775 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 164.06 Mbit/s

95th percentile per-packet one-way delay: 6.871 ms

Loss rate: 0.10%

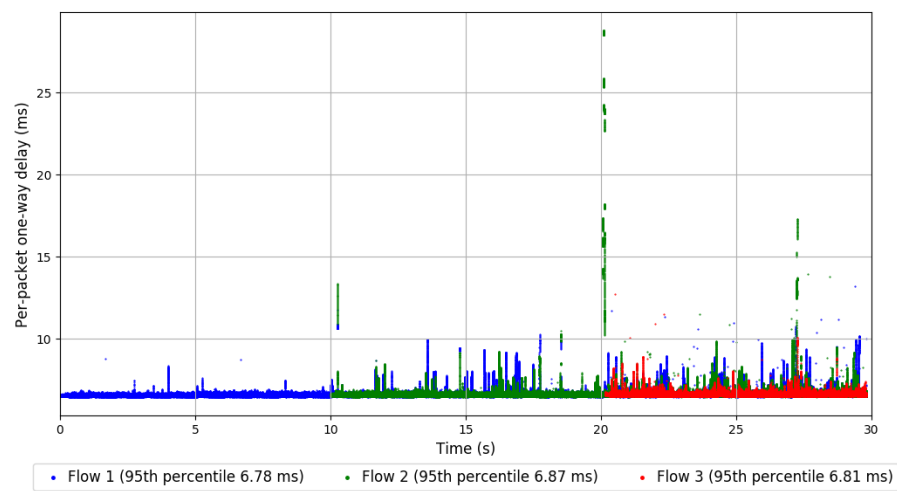
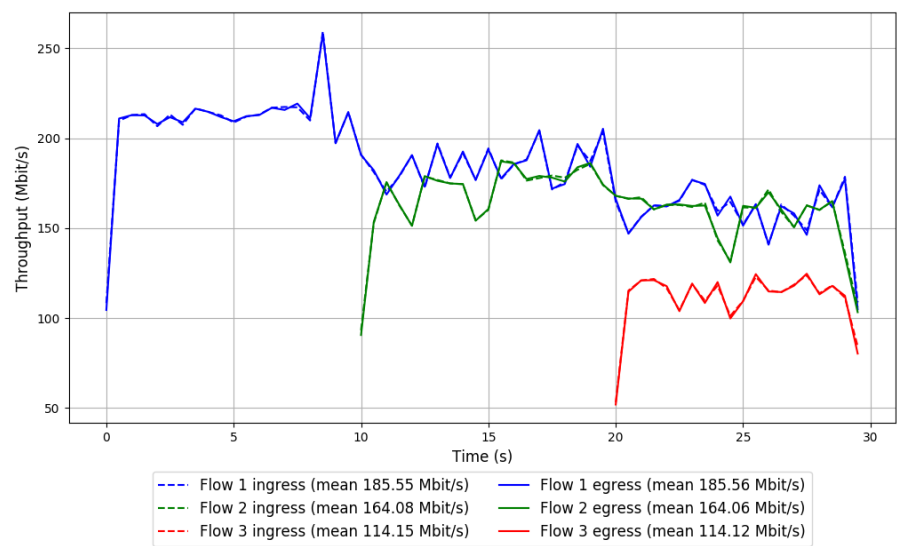
-- Flow 3:

Average throughput: 114.12 Mbit/s

95th percentile per-packet one-way delay: 6.811 ms

Loss rate: 0.22%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-27 07:10:28

End at: 2018-01-27 07:10:58

Local clock offset: 1.07 ms

Below is generated by plot.py at 2018-01-27 18:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.51 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 184.87 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 165.71 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.10%

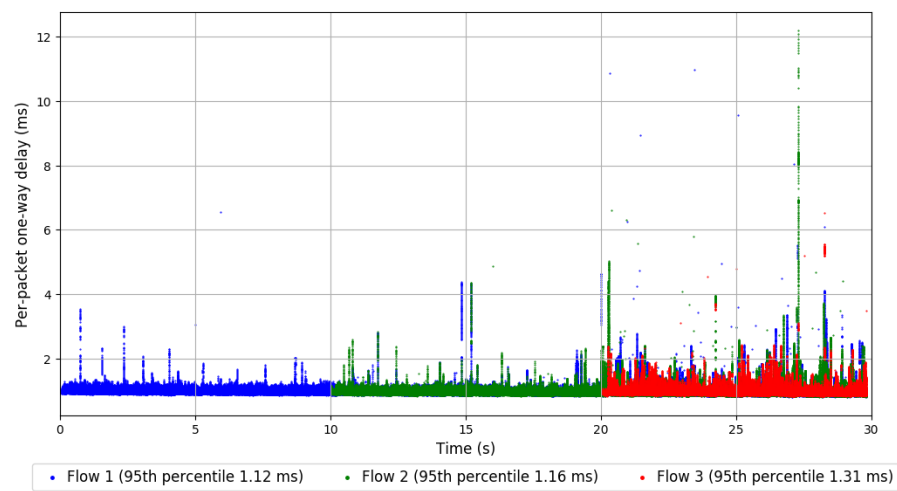
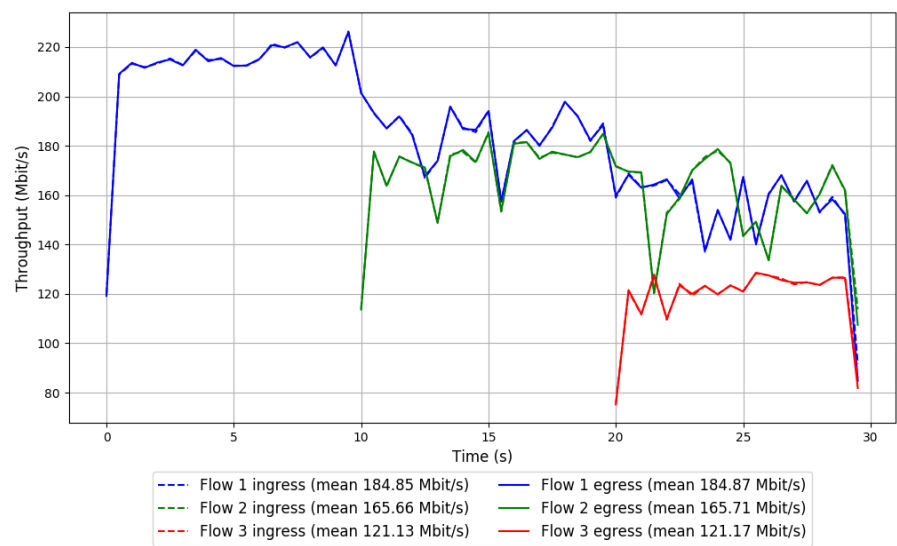
-- Flow 3:

Average throughput: 121.17 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.18%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-27 08:01:22

End at: 2018-01-27 08:01:52

Local clock offset: -3.323 ms

Below is generated by plot.py at 2018-01-27 18:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.49 Mbit/s

95th percentile per-packet one-way delay: 6.018 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 186.77 Mbit/s

95th percentile per-packet one-way delay: 5.987 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 6.066 ms

Loss rate: 0.08%

-- Flow 3:

Average throughput: 85.42 Mbit/s

95th percentile per-packet one-way delay: 6.013 ms

Loss rate: 0.24%

Run 10: Report of Indigo-1-128 — Data Link

