

Pantheon Report

Generated at 2018-01-26 22:25:47 (UTC).

Data path: GCE London Ethernet (*remote*) → GCE Iowa 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.

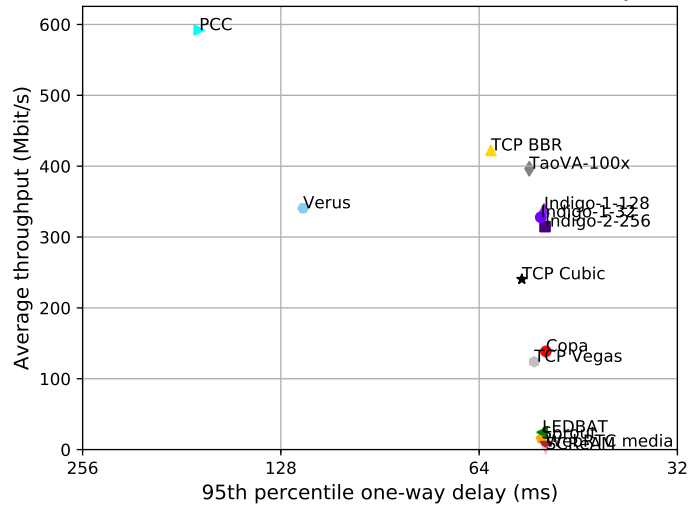
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

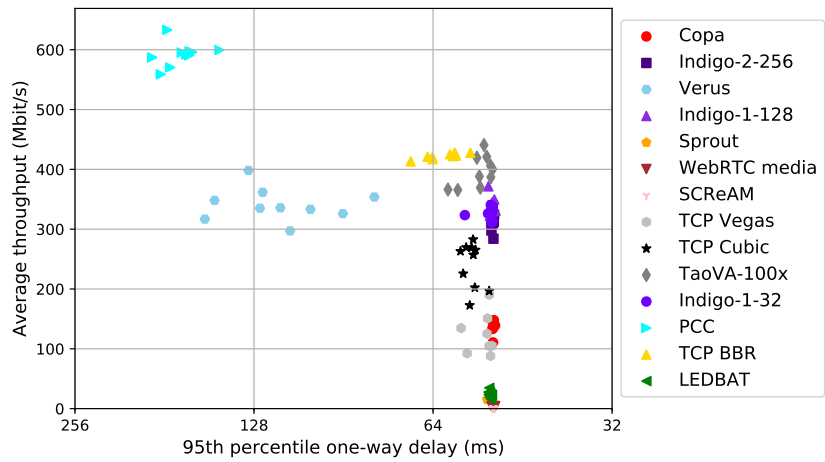
Git summary:

```
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 @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London Ethernet to GCE Iowa 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	215.91	212.37	197.95	60.11	61.48	63.31	0.38	0.58	1.22
TCP Cubic	10	130.23	121.94	88.84	54.42	54.84	54.80	0.31	0.66	1.81
LEDBAT	10	13.52	12.19	8.39	51.35	51.31	51.37	0.87	0.92	2.18
PCC	10	530.85	70.18	44.77	172.28	163.03	158.43	2.28	2.32	3.92
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.22	0.22	0.22	50.64	50.58	50.58	0.26	0.55	1.11
WebRTC media	10	2.23	1.40	0.56	50.58	50.33	50.50	0.47	0.58	1.54
Sprout	10	7.96	7.85	7.53	51.50	51.45	51.44	0.38	0.52	1.26
TaoVA-100x	10	219.92	216.72	134.31	52.65	55.21	54.44	0.28	0.49	1.20
TCP Vegas	8	56.62	59.73	86.56	51.76	52.58	53.56	0.33	0.47	1.17
Verus	10	205.04	147.33	118.38	121.28	118.04	109.57	0.85	0.75	2.49
Copa	10	72.04	71.54	74.00	50.57	50.69	50.58	0.25	0.49	1.41
Indigo-2-256	10	168.29	157.44	130.29	50.75	50.87	50.95	0.30	0.47	1.00
Indigo-1-32	10	173.71	159.72	149.07	51.32	51.81	51.98	0.29	0.49	1.08
Indigo-1-128	9	179.39	169.06	139.64	50.80	51.23	51.67	0.32	0.46	1.04

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 16:16:37

End at: 2018-01-26 16:17:07

Below is generated by plot.py at 2018-01-26 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 421.12 Mbit/s

95th percentile per-packet one-way delay: 65.367 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 215.53 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 210.03 Mbit/s

95th percentile per-packet one-way delay: 65.622 ms

Loss rate: 0.58%

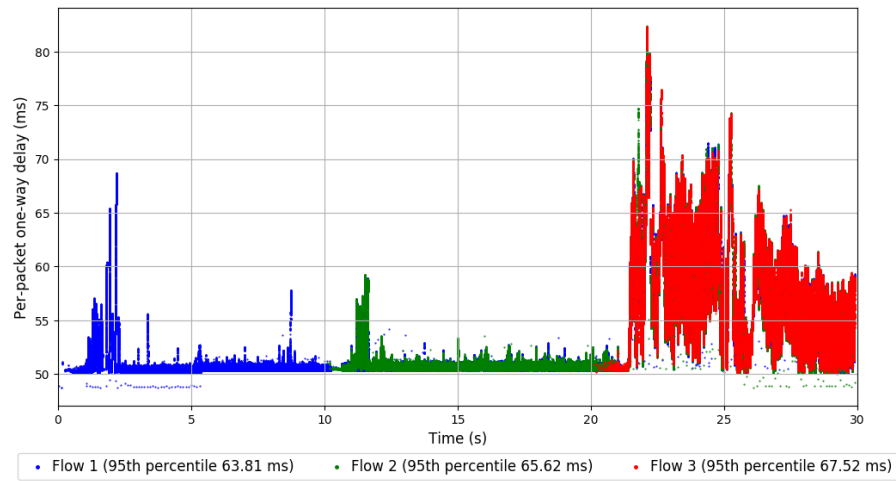
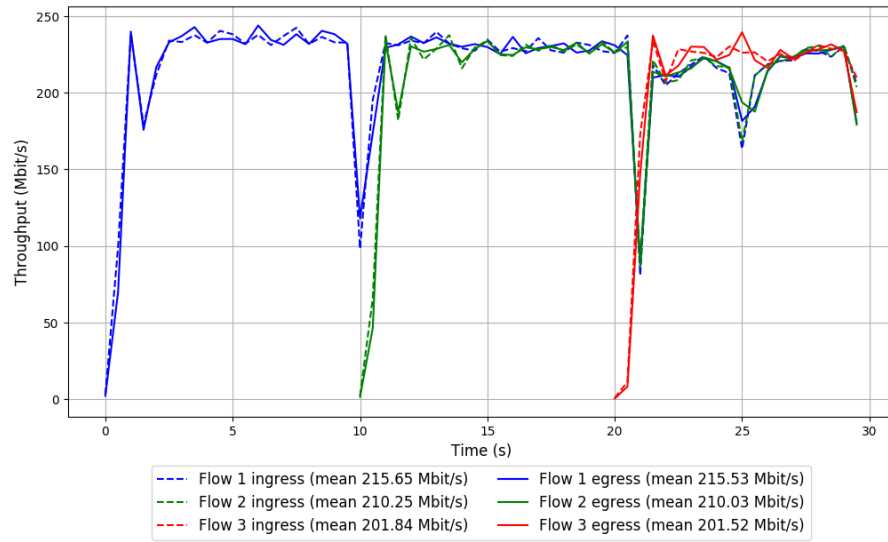
-- Flow 3:

Average throughput: 201.52 Mbit/s

95th percentile per-packet one-way delay: 67.522 ms

Loss rate: 1.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 16:31:02

End at: 2018-01-26 16:31:32

Below is generated by plot.py at 2018-01-26 21:10:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.21 Mbit/s

95th percentile per-packet one-way delay: 59.254 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 214.83 Mbit/s

95th percentile per-packet one-way delay: 58.506 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 214.70 Mbit/s

95th percentile per-packet one-way delay: 58.854 ms

Loss rate: 0.68%

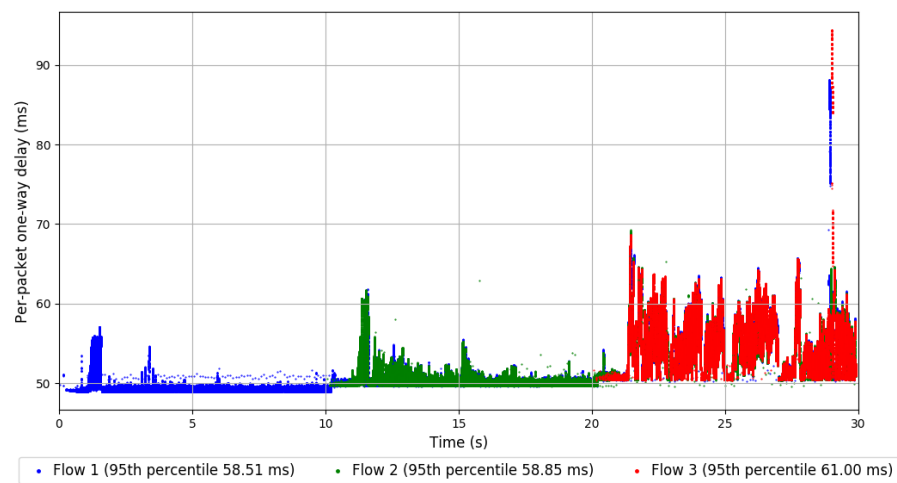
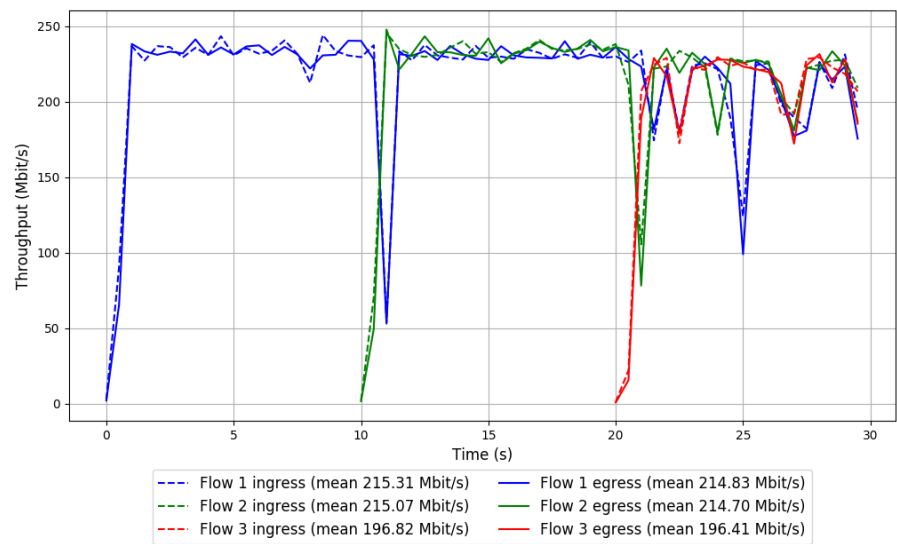
-- Flow 3:

Average throughput: 196.41 Mbit/s

95th percentile per-packet one-way delay: 60.996 ms

Loss rate: 1.23%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 16:45:26

End at: 2018-01-26 16:45:56

Below is generated by plot.py at 2018-01-26 21:10:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 420.41 Mbit/s

95th percentile per-packet one-way delay: 64.150 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 215.45 Mbit/s

95th percentile per-packet one-way delay: 62.237 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 212.99 Mbit/s

95th percentile per-packet one-way delay: 64.561 ms

Loss rate: 0.57%

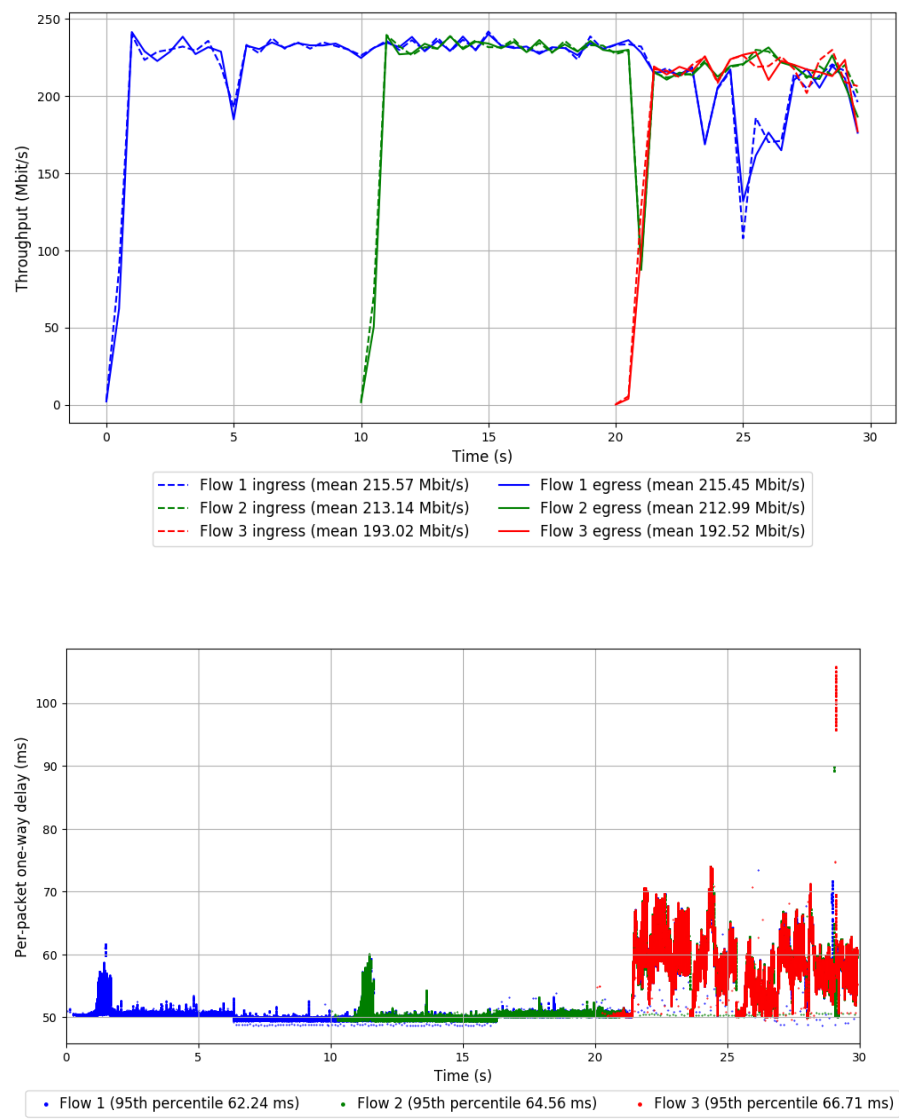
-- Flow 3:

Average throughput: 192.52 Mbit/s

95th percentile per-packet one-way delay: 66.706 ms

Loss rate: 1.28%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 16:59:59

End at: 2018-01-26 17:00:30

Below is generated by plot.py at 2018-01-26 21:10:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.01 Mbit/s

95th percentile per-packet one-way delay: 64.128 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 213.14 Mbit/s

95th percentile per-packet one-way delay: 62.055 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 211.33 Mbit/s

95th percentile per-packet one-way delay: 63.829 ms

Loss rate: 0.60%

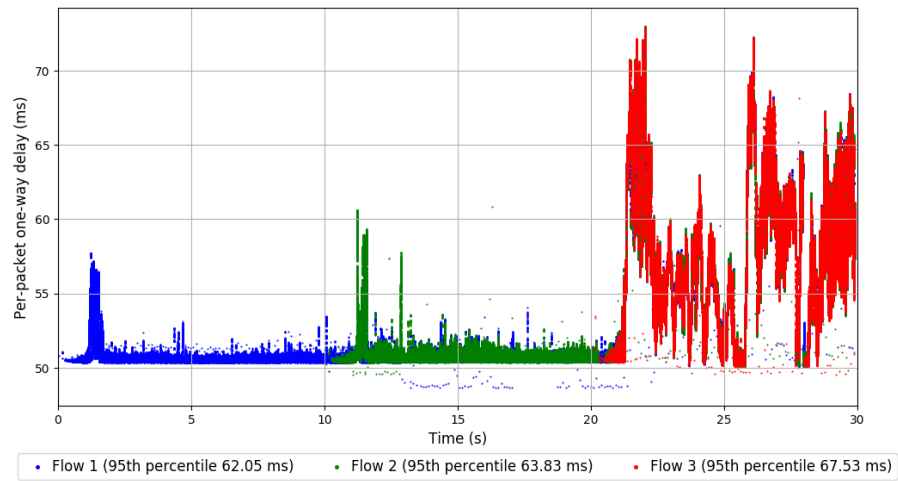
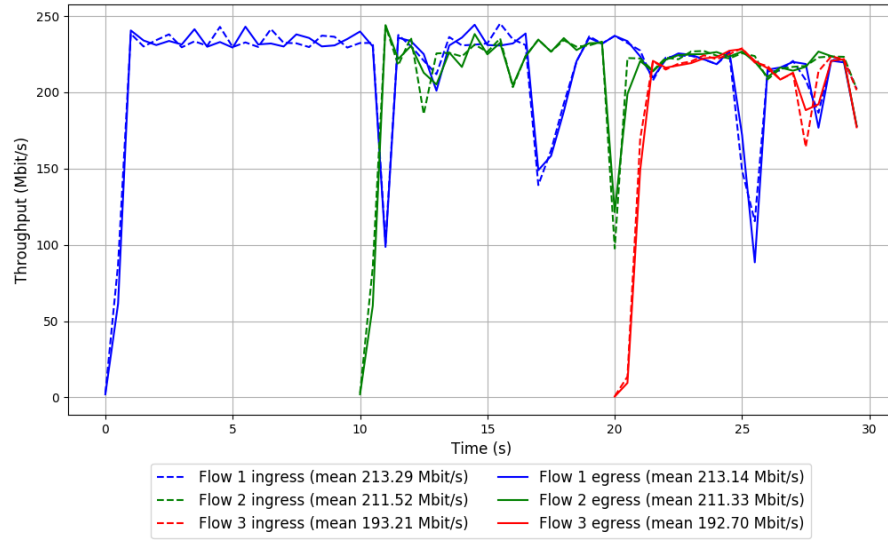
-- Flow 3:

Average throughput: 192.70 Mbit/s

95th percentile per-packet one-way delay: 67.525 ms

Loss rate: 1.29%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 17:14:31

End at: 2018-01-26 17:15:01

Below is generated by plot.py at 2018-01-26 21:10:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 423.82 Mbit/s

95th percentile per-packet one-way delay: 58.612 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 216.84 Mbit/s

95th percentile per-packet one-way delay: 57.473 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 210.66 Mbit/s

95th percentile per-packet one-way delay: 59.136 ms

Loss rate: 0.55%

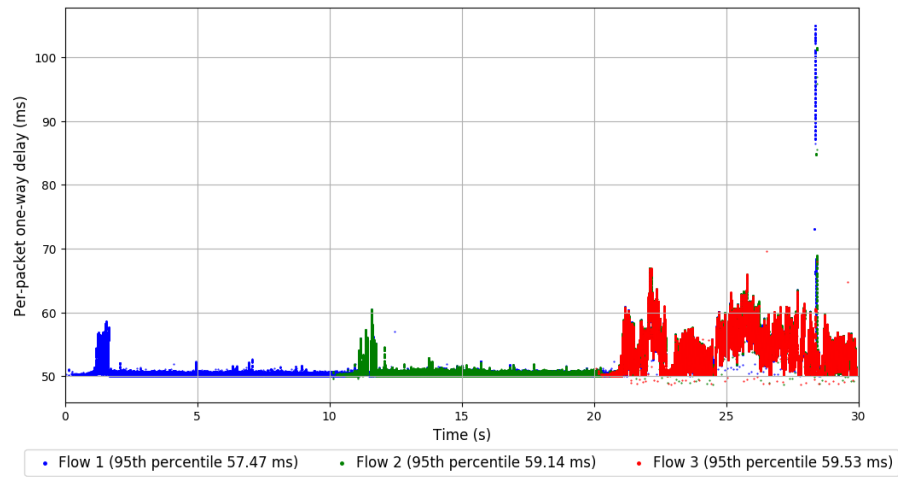
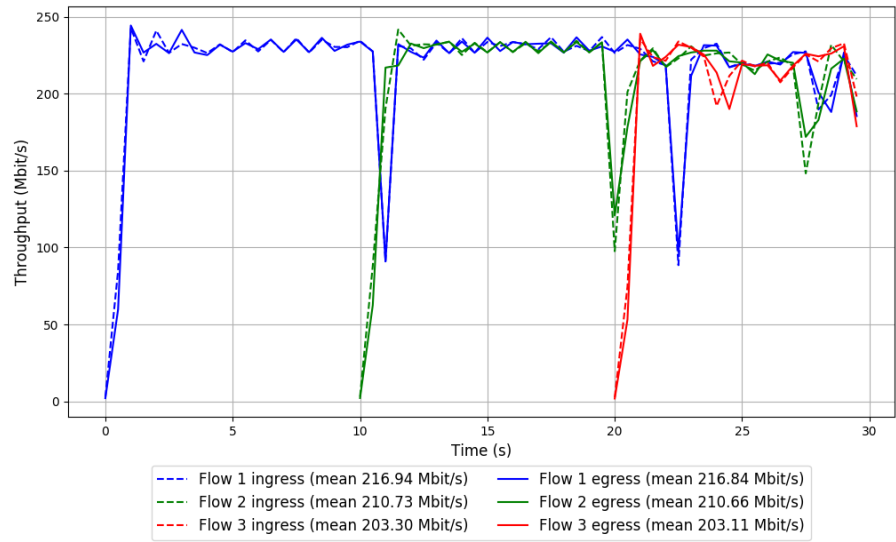
-- Flow 3:

Average throughput: 203.11 Mbit/s

95th percentile per-packet one-way delay: 59.528 ms

Loss rate: 1.10%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 17:29:02

End at: 2018-01-26 17:29:32

Below is generated by plot.py at 2018-01-26 21:11:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 428.05 Mbit/s

95th percentile per-packet one-way delay: 58.856 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 217.08 Mbit/s

95th percentile per-packet one-way delay: 58.148 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 214.81 Mbit/s

95th percentile per-packet one-way delay: 58.894 ms

Loss rate: 0.57%

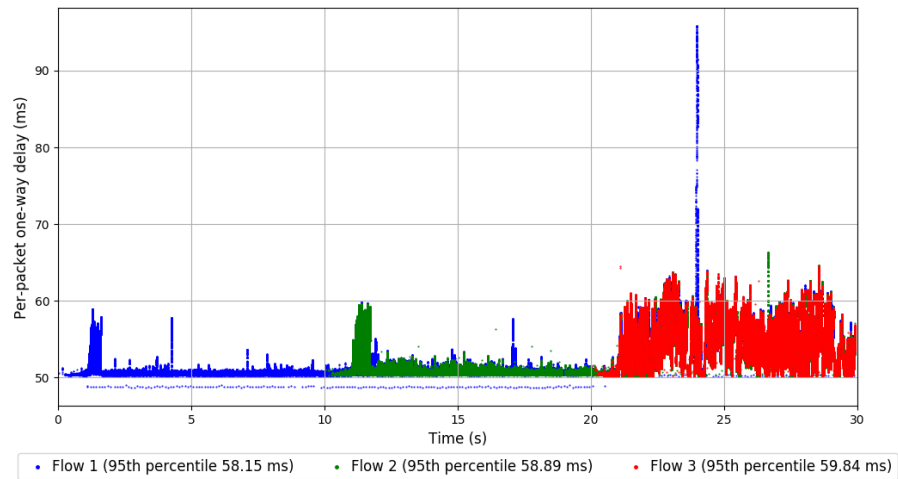
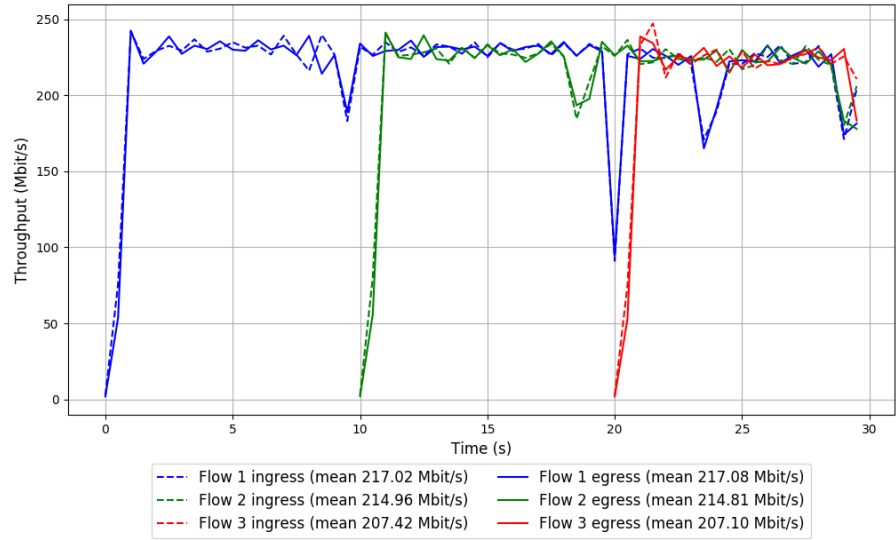
-- Flow 3:

Average throughput: 207.10 Mbit/s

95th percentile per-packet one-way delay: 59.836 ms

Loss rate: 1.19%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-26 17:43:15

End at: 2018-01-26 17:43:45

Below is generated by plot.py at 2018-01-26 21:11:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 425.19 Mbit/s

95th percentile per-packet one-way delay: 59.960 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 217.33 Mbit/s

95th percentile per-packet one-way delay: 58.285 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 60.296 ms

Loss rate: 0.55%

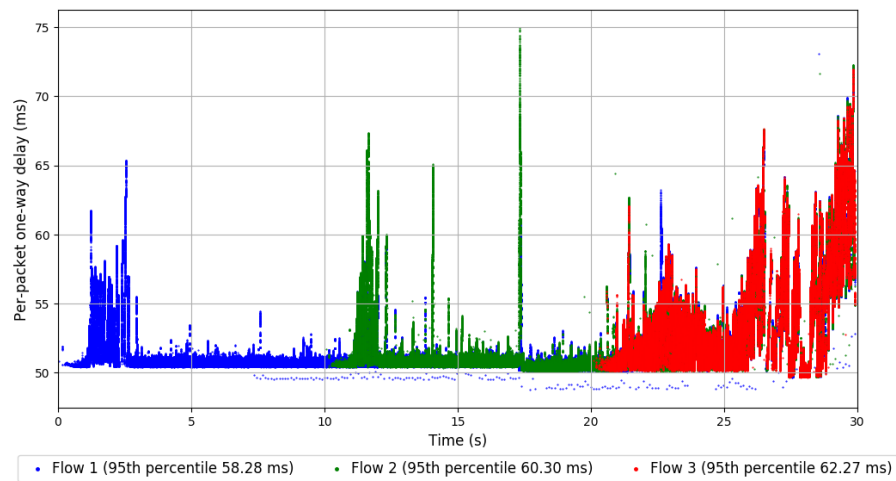
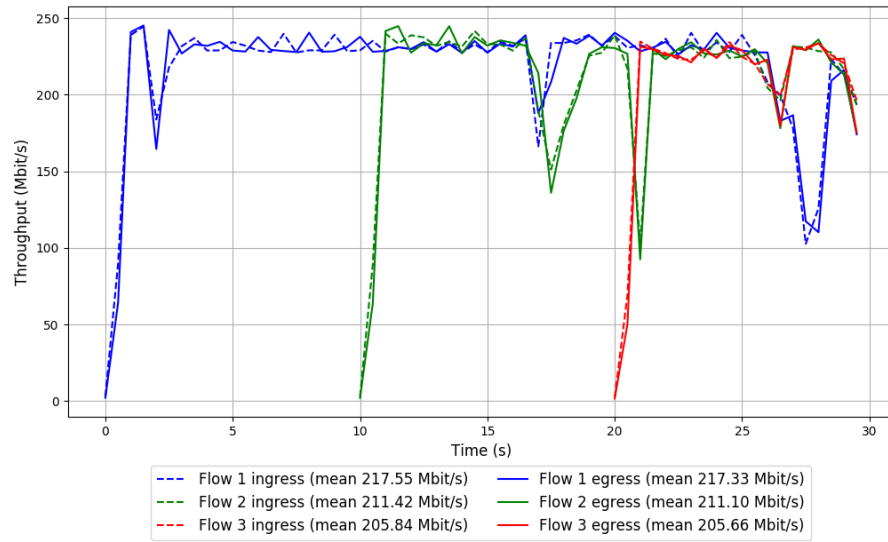
-- Flow 3:

Average throughput: 205.66 Mbit/s

95th percentile per-packet one-way delay: 62.269 ms

Loss rate: 1.12%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 17:57:36

End at: 2018-01-26 17:58:06

Below is generated by plot.py at 2018-01-26 21:11:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.37 Mbit/s

95th percentile per-packet one-way delay: 69.802 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 211.00 Mbit/s

95th percentile per-packet one-way delay: 68.402 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 211.53 Mbit/s

95th percentile per-packet one-way delay: 69.725 ms

Loss rate: 0.59%

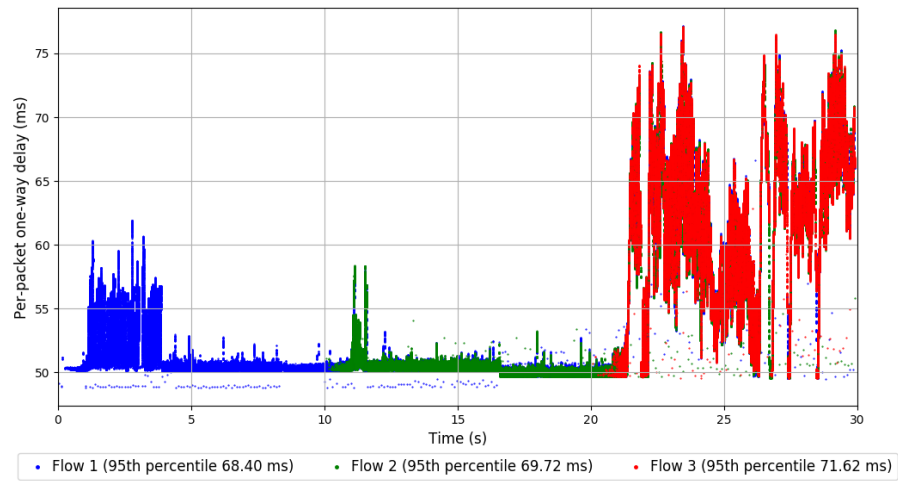
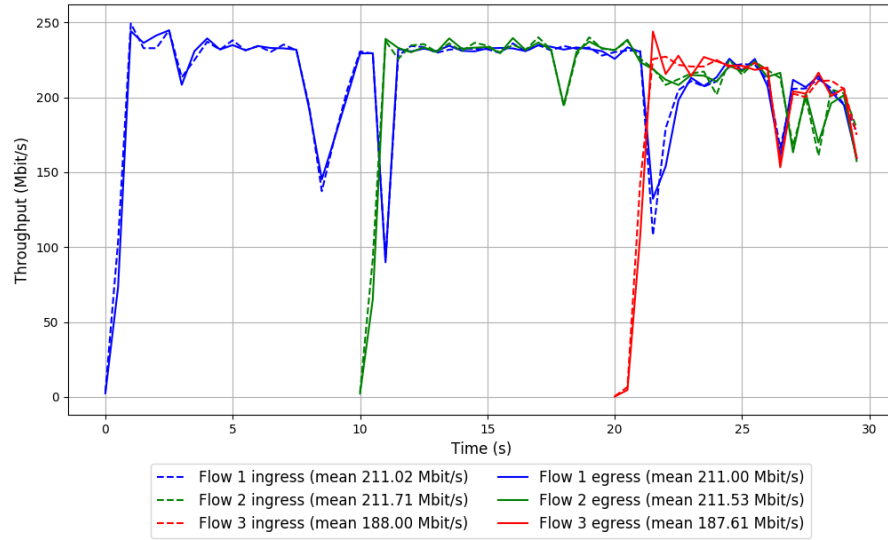
-- Flow 3:

Average throughput: 187.61 Mbit/s

95th percentile per-packet one-way delay: 71.624 ms

Loss rate: 1.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 18:12:04

End at: 2018-01-26 18:12:34

Below is generated by plot.py at 2018-01-26 21:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 427.64 Mbit/s

95th percentile per-packet one-way delay: 55.387 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 218.93 Mbit/s

95th percentile per-packet one-way delay: 54.648 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 217.05 Mbit/s

95th percentile per-packet one-way delay: 55.365 ms

Loss rate: 0.55%

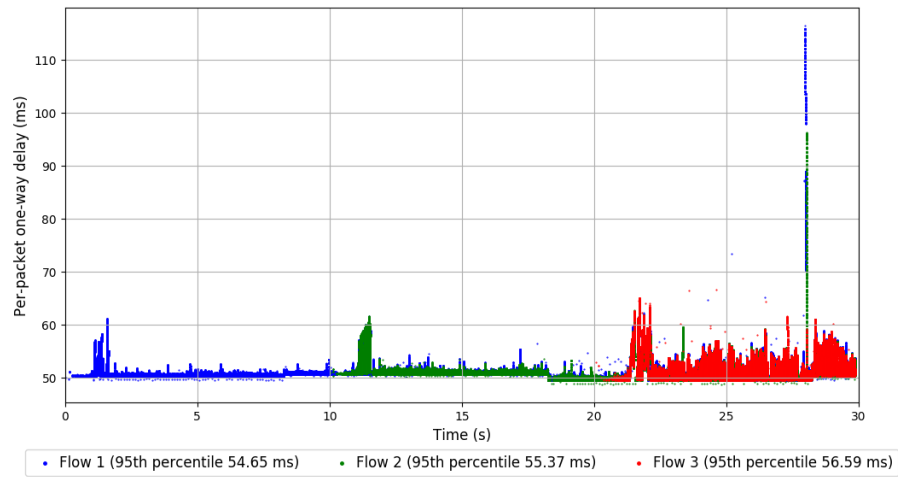
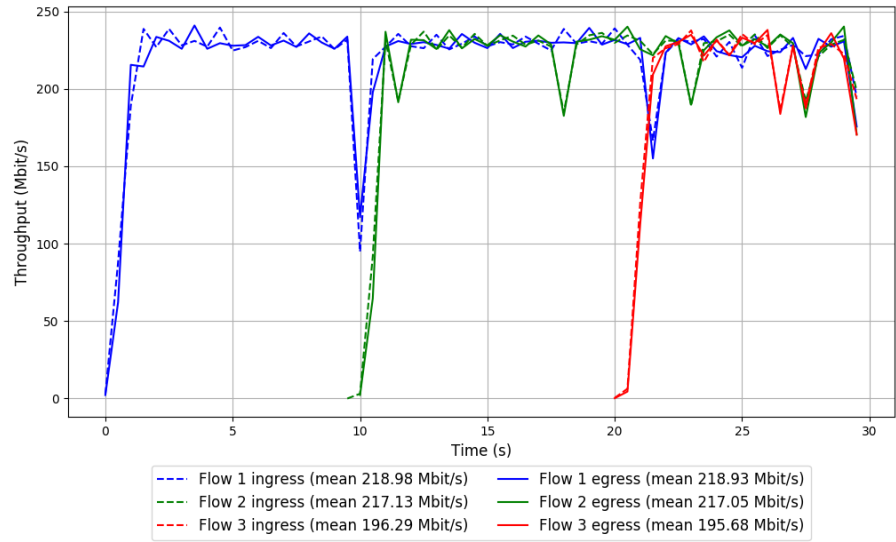
-- Flow 3:

Average throughput: 195.68 Mbit/s

95th percentile per-packet one-way delay: 56.595 ms

Loss rate: 1.21%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 18:26:30

End at: 2018-01-26 18:27:00

Below is generated by plot.py at 2018-01-26 21:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.86 Mbit/s

95th percentile per-packet one-way delay: 58.618 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 218.93 Mbit/s

95th percentile per-packet one-way delay: 57.525 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 209.52 Mbit/s

95th percentile per-packet one-way delay: 58.501 ms

Loss rate: 0.59%

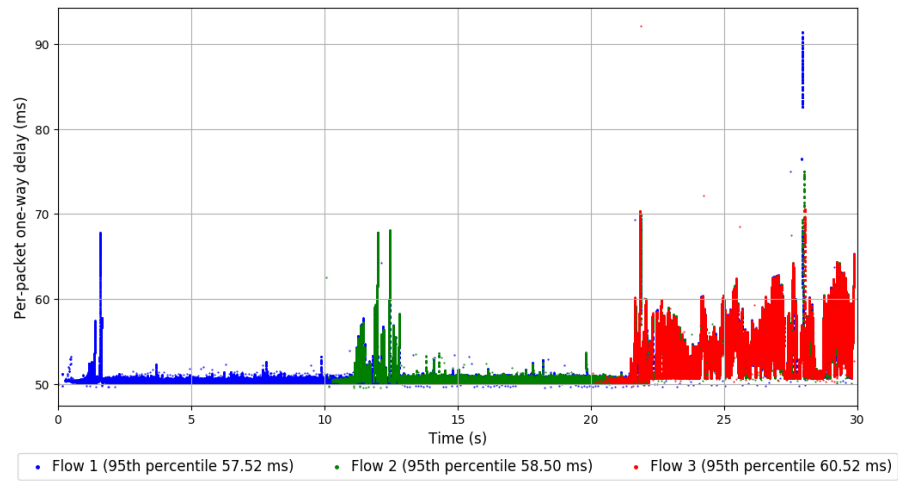
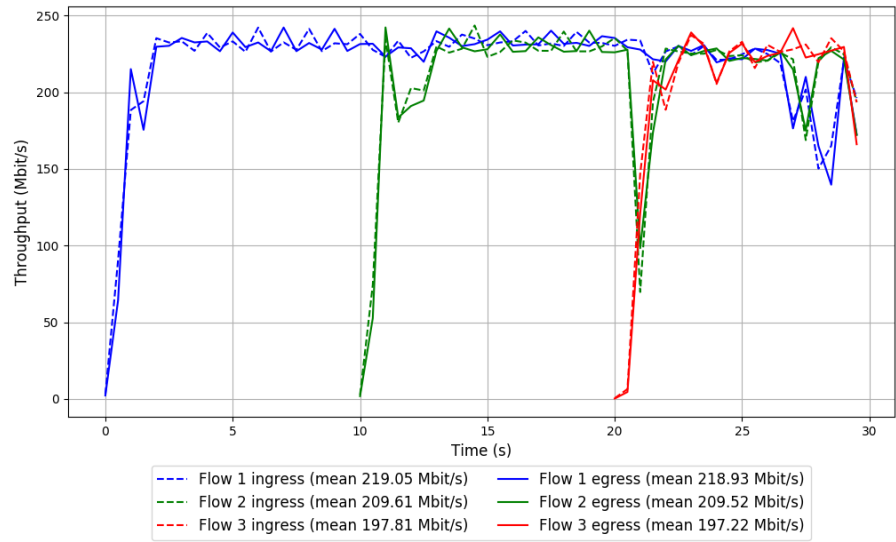
-- Flow 3:

Average throughput: 197.22 Mbit/s

95th percentile per-packet one-way delay: 60.519 ms

Loss rate: 1.33%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 16:19:33

End at: 2018-01-26 16:20:03

Below is generated by plot.py at 2018-01-26 21:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.17 Mbit/s

95th percentile per-packet one-way delay: 57.554 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 128.16 Mbit/s

95th percentile per-packet one-way delay: 56.910 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 148.41 Mbit/s

95th percentile per-packet one-way delay: 57.676 ms

Loss rate: 0.30%

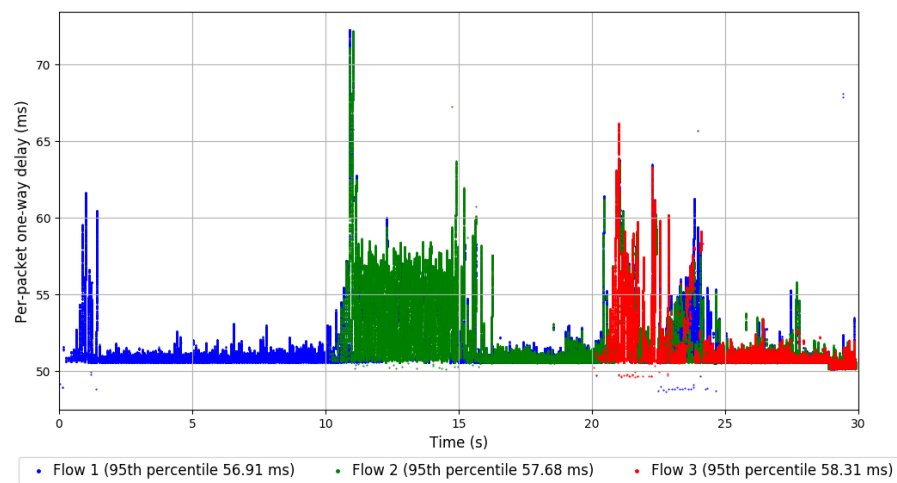
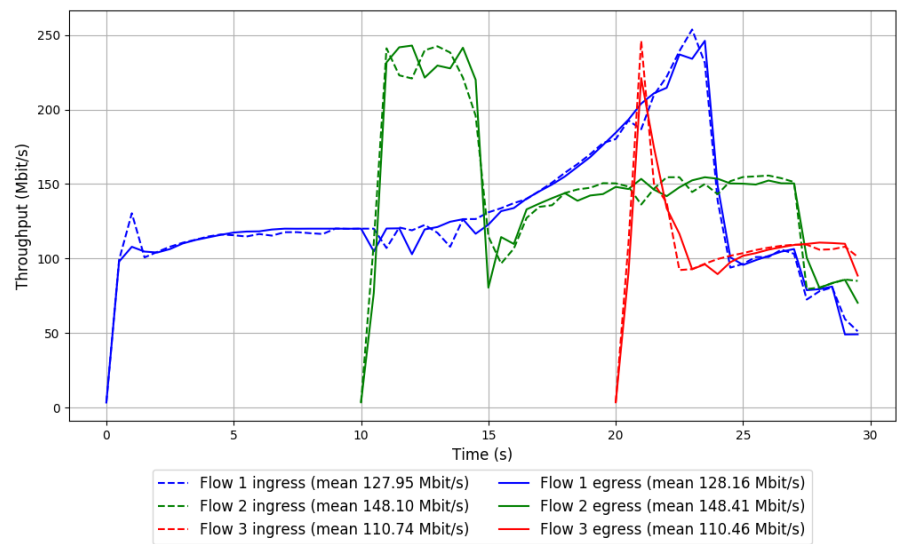
-- Flow 3:

Average throughput: 110.46 Mbit/s

95th percentile per-packet one-way delay: 58.311 ms

Loss rate: 1.02%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 16:33:56

End at: 2018-01-26 16:34:26

Below is generated by plot.py at 2018-01-26 21:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.77 Mbit/s

95th percentile per-packet one-way delay: 54.797 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 137.27 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 56.551 ms

Loss rate: 0.31%

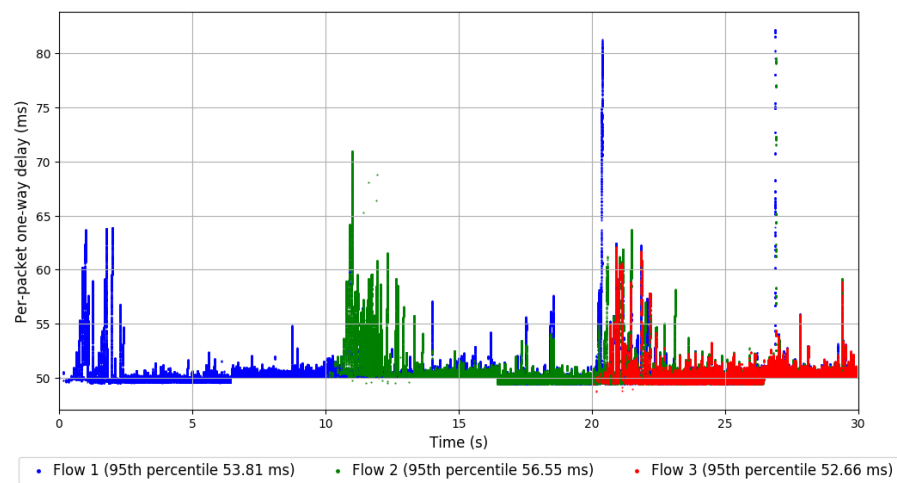
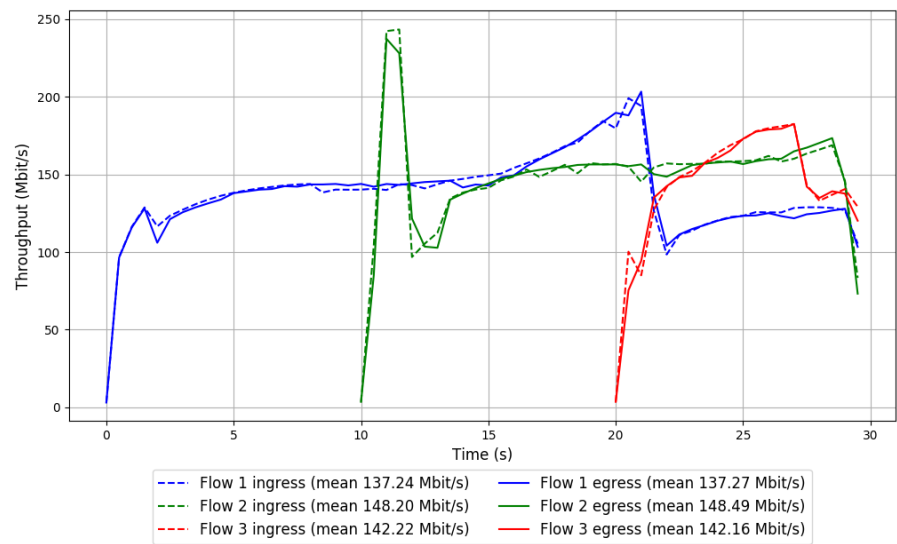
-- Flow 3:

Average throughput: 142.16 Mbit/s

95th percentile per-packet one-way delay: 52.658 ms

Loss rate: 1.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 16:48:25

End at: 2018-01-26 16:48:55

Below is generated by plot.py at 2018-01-26 21:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.57 Mbit/s

95th percentile per-packet one-way delay: 56.290 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 135.75 Mbit/s

95th percentile per-packet one-way delay: 55.050 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 123.43 Mbit/s

95th percentile per-packet one-way delay: 55.276 ms

Loss rate: 0.75%

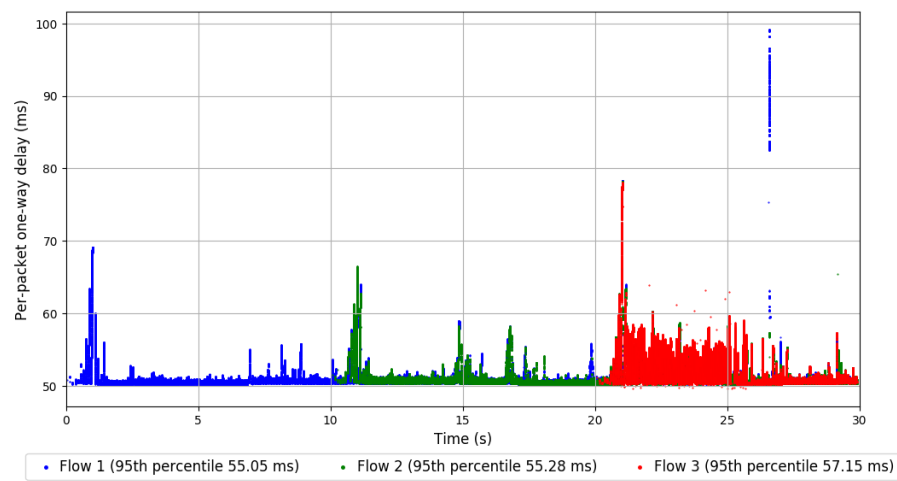
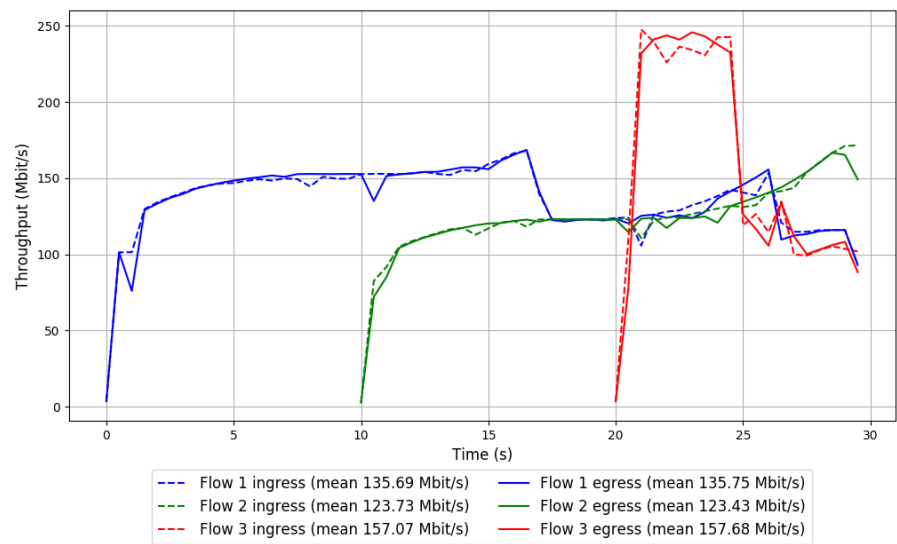
-- Flow 3:

Average throughput: 157.68 Mbit/s

95th percentile per-packet one-way delay: 57.149 ms

Loss rate: 0.71%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 17:02:58

End at: 2018-01-26 17:03:28

Below is generated by plot.py at 2018-01-26 21:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.94 Mbit/s

95th percentile per-packet one-way delay: 55.123 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 171.11 Mbit/s

95th percentile per-packet one-way delay: 55.890 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 144.83 Mbit/s

95th percentile per-packet one-way delay: 52.883 ms

Loss rate: 0.42%

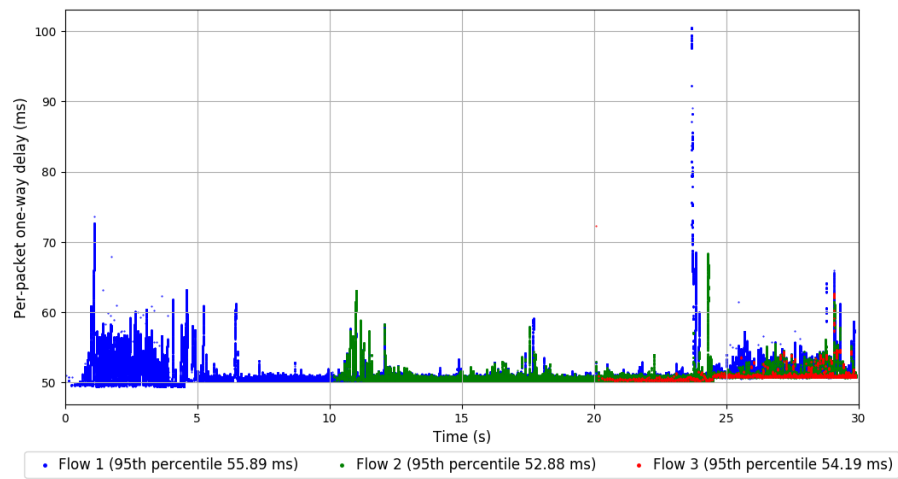
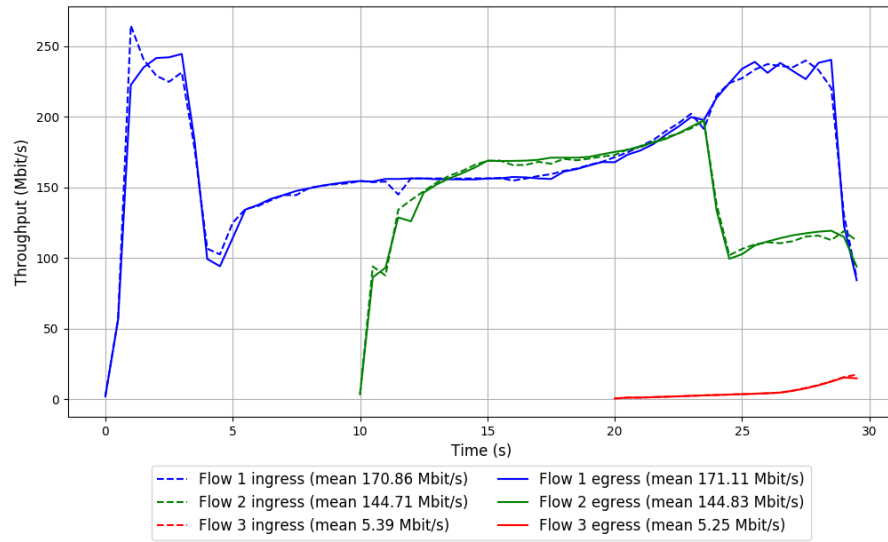
-- Flow 3:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 54.186 ms

Loss rate: 3.96%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 17:17:30

End at: 2018-01-26 17:18:00

Below is generated by plot.py at 2018-01-26 21:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.74 Mbit/s

95th percentile per-packet one-way delay: 55.525 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 123.12 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 52.013 ms

Loss rate: 1.88%

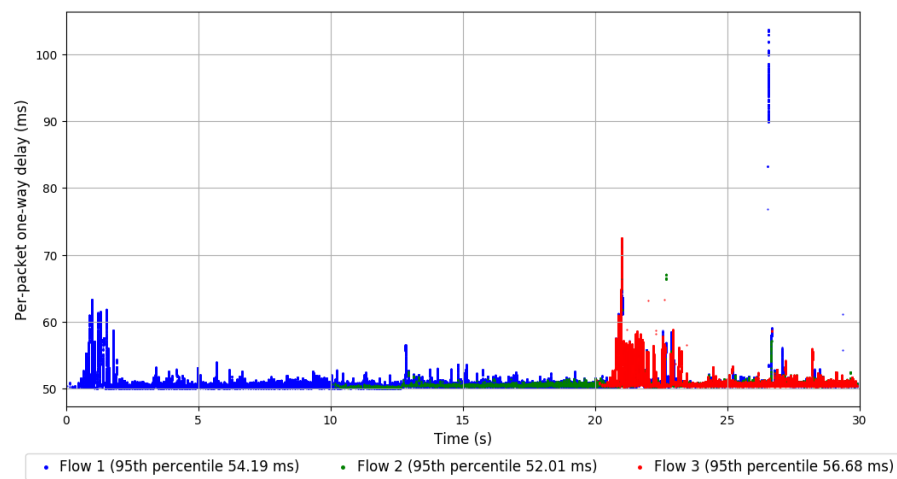
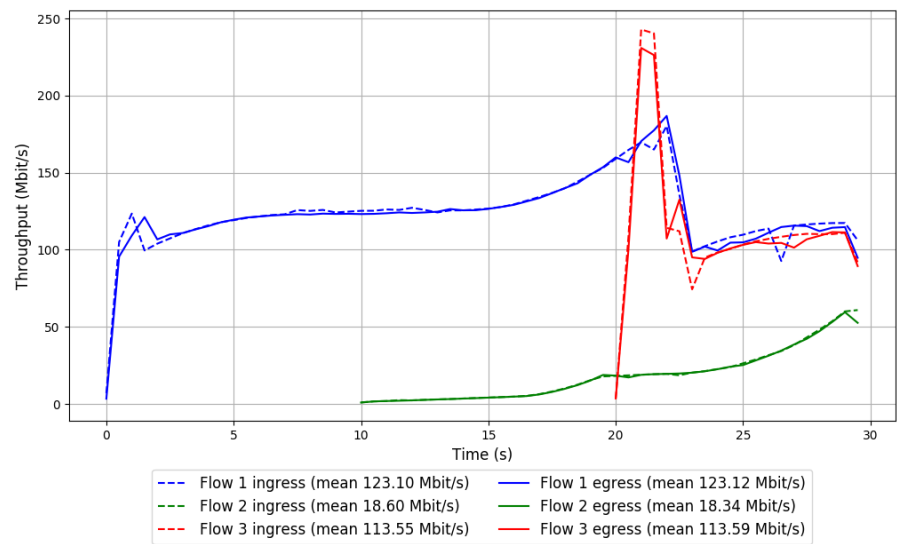
-- Flow 3:

Average throughput: 113.59 Mbit/s

95th percentile per-packet one-way delay: 56.679 ms

Loss rate: 0.99%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 17:31:59

End at: 2018-01-26 17:32:29

Below is generated by plot.py at 2018-01-26 21:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.64 Mbit/s

95th percentile per-packet one-way delay: 56.950 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 109.56 Mbit/s

95th percentile per-packet one-way delay: 56.626 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 105.44 Mbit/s

95th percentile per-packet one-way delay: 58.508 ms

Loss rate: 0.74%

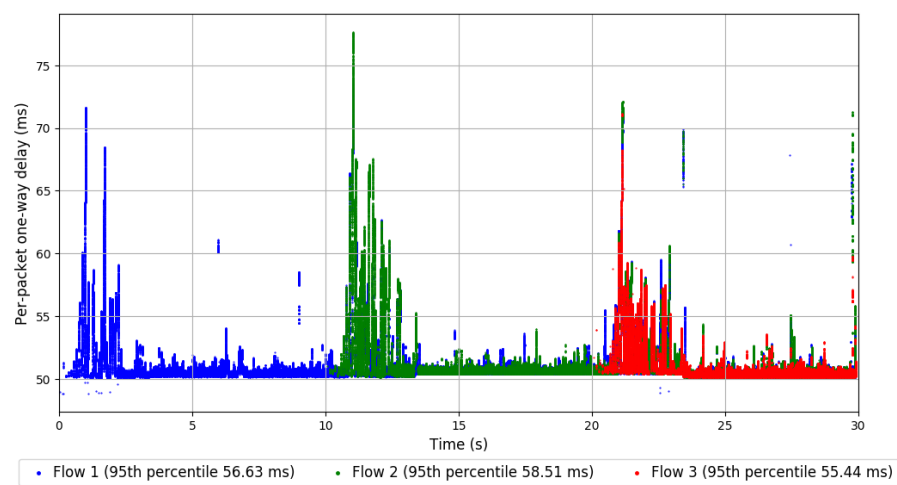
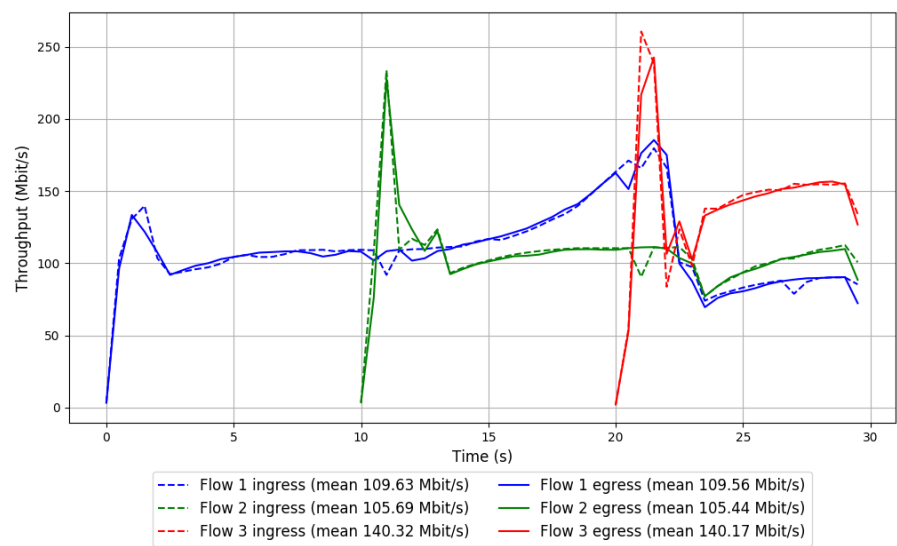
-- Flow 3:

Average throughput: 140.17 Mbit/s

95th percentile per-packet one-way delay: 55.439 ms

Loss rate: 1.12%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 17:46:10

End at: 2018-01-26 17:46:40

Below is generated by plot.py at 2018-01-26 21:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.38 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 138.77 Mbit/s

95th percentile per-packet one-way delay: 54.170 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 141.04 Mbit/s

95th percentile per-packet one-way delay: 54.224 ms

Loss rate: 0.67%

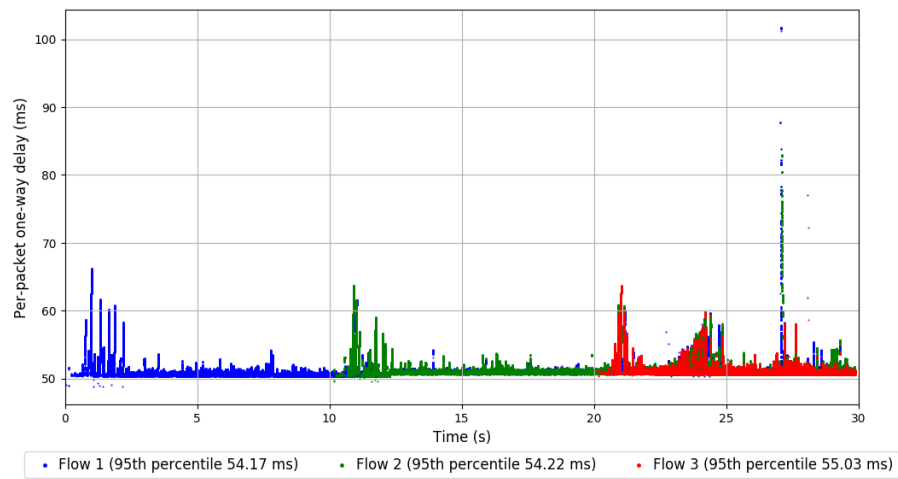
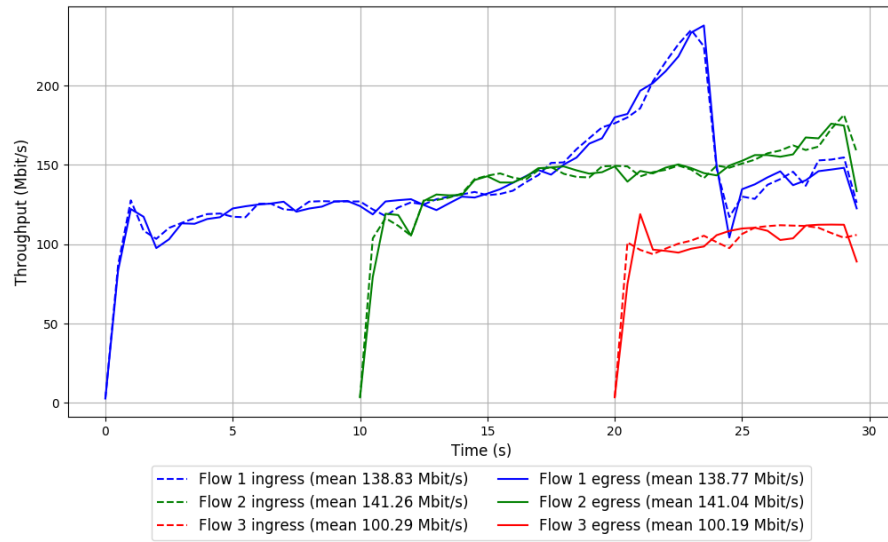
-- Flow 3:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 55.028 ms

Loss rate: 1.13%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 18:00:36

End at: 2018-01-26 18:01:06

Below is generated by plot.py at 2018-01-26 21:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.87 Mbit/s

95th percentile per-packet one-way delay: 51.492 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 117.84 Mbit/s

95th percentile per-packet one-way delay: 51.614 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 116.72 Mbit/s

95th percentile per-packet one-way delay: 51.319 ms

Loss rate: 0.42%

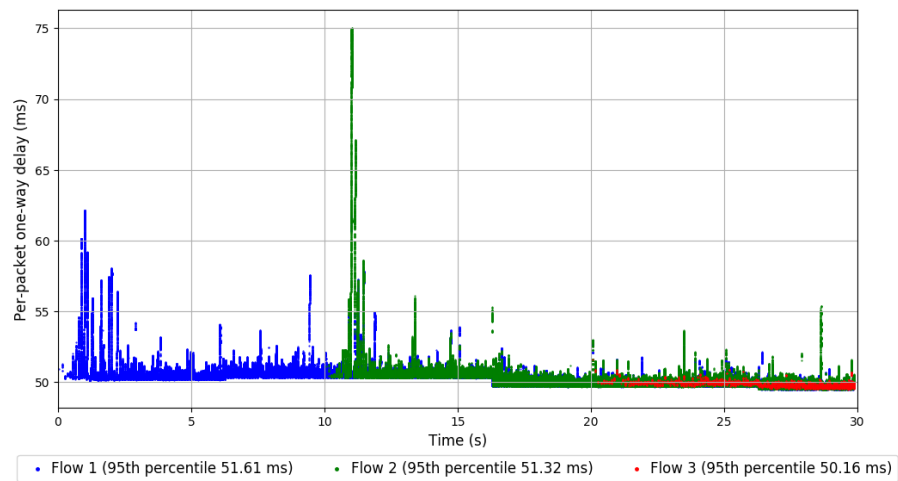
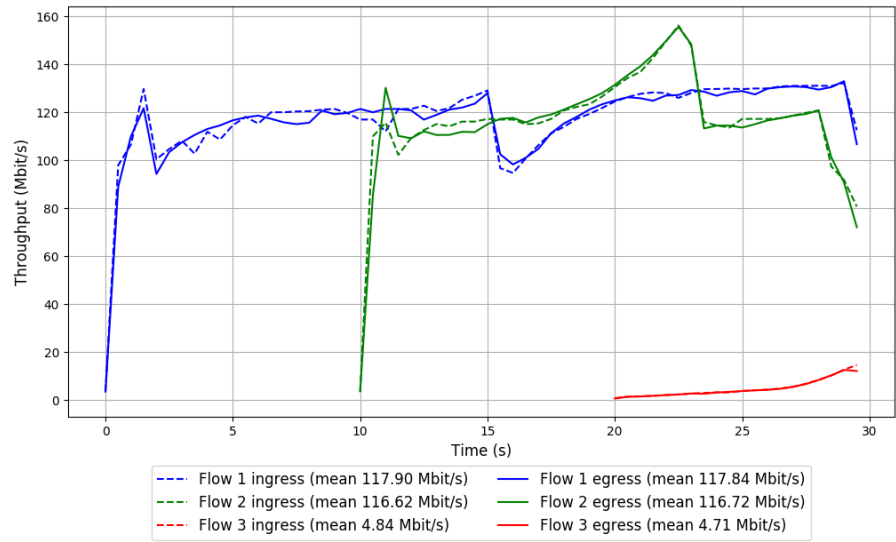
-- Flow 3:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 50.157 ms

Loss rate: 3.63%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 18:15:00

End at: 2018-01-26 18:15:30

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.16 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 136.02 Mbit/s

95th percentile per-packet one-way delay: 53.466 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 128.33 Mbit/s

95th percentile per-packet one-way delay: 54.119 ms

Loss rate: 0.66%

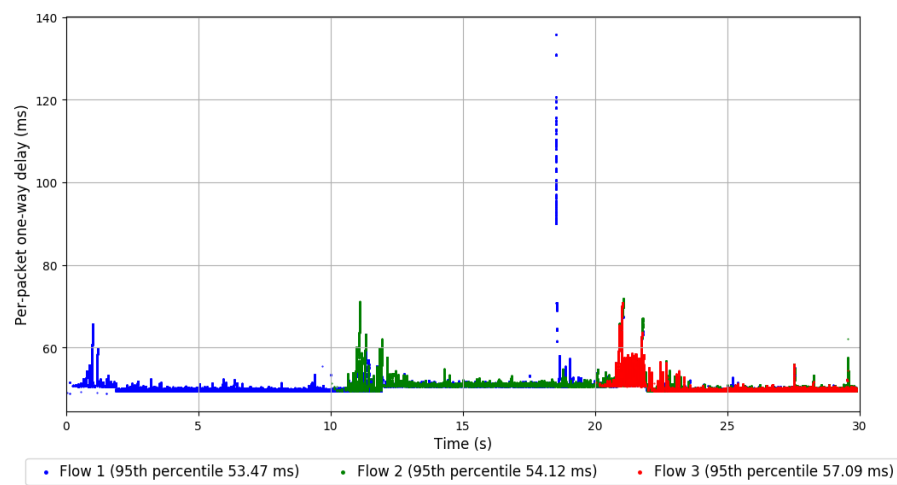
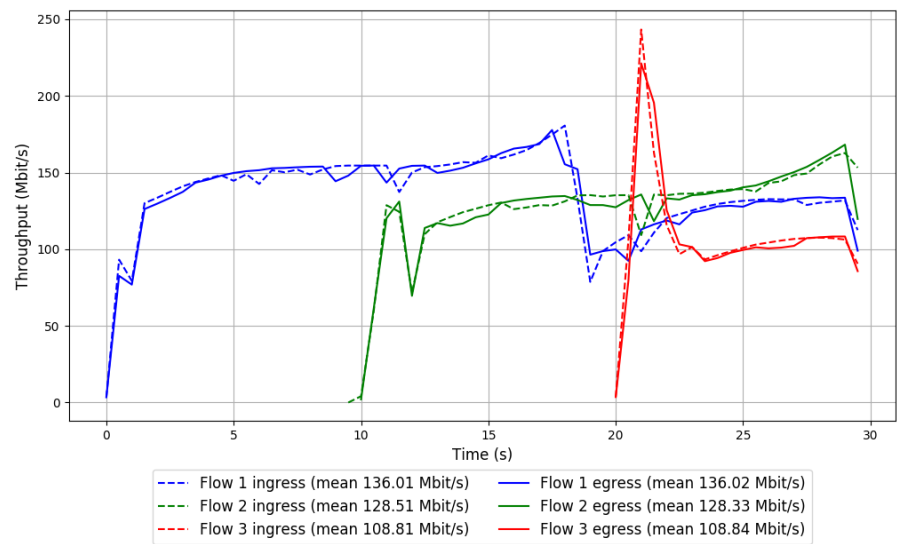
-- Flow 3:

Average throughput: 108.84 Mbit/s

95th percentile per-packet one-way delay: 57.089 ms

Loss rate: 1.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 18:29:25

End at: 2018-01-26 18:29:55

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.32 Mbit/s

95th percentile per-packet one-way delay: 54.441 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 52.439 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 144.39 Mbit/s

95th percentile per-packet one-way delay: 55.874 ms

Loss rate: 0.47%

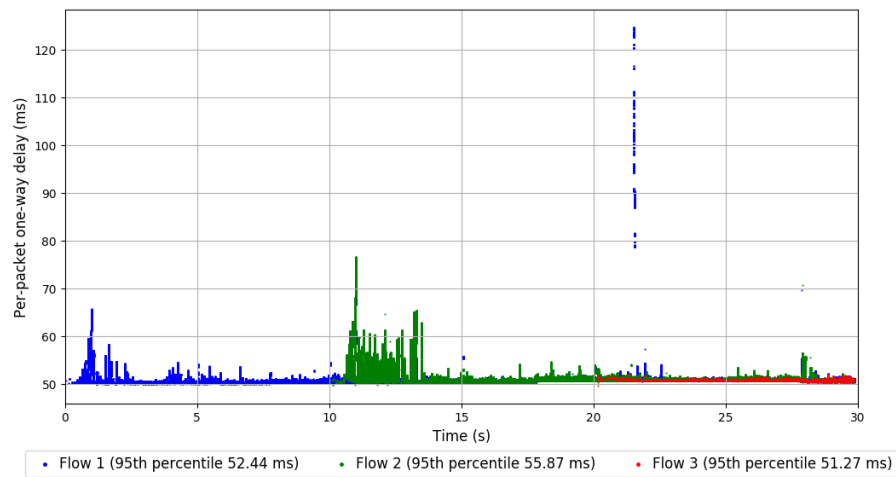
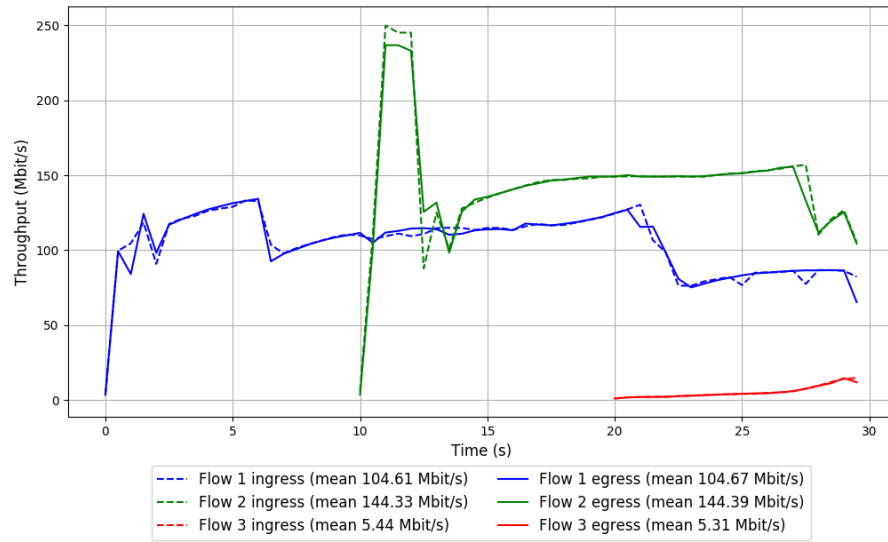
-- Flow 3:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 51.273 ms

Loss rate: 3.52%

Run 10: Report of TCP Cubic — Data Link

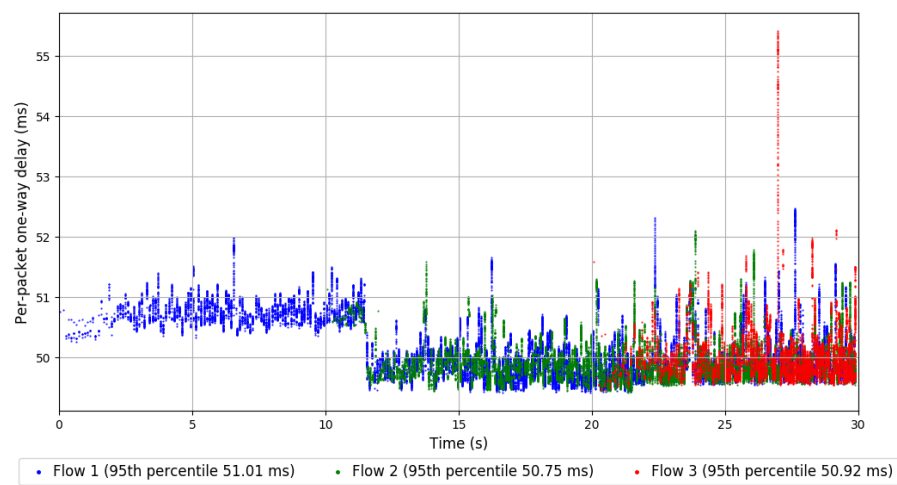
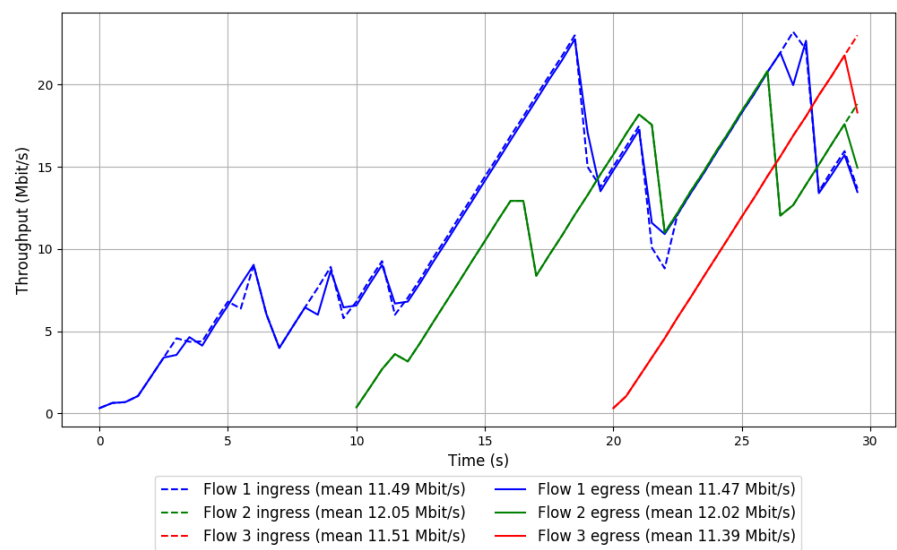


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 16:11:41
End at: 2018-01-26 16:12:11

# Below is generated by plot.py at 2018-01-26 21:20:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 50.946 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 51.007 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 50.749 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 50.921 ms
Loss rate: 2.06%
```


Run 1: Report of LEDBAT — Data Link

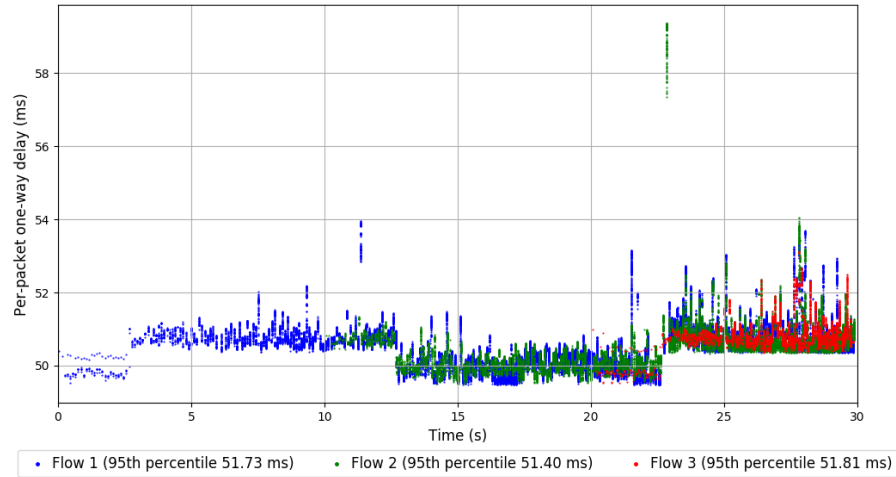
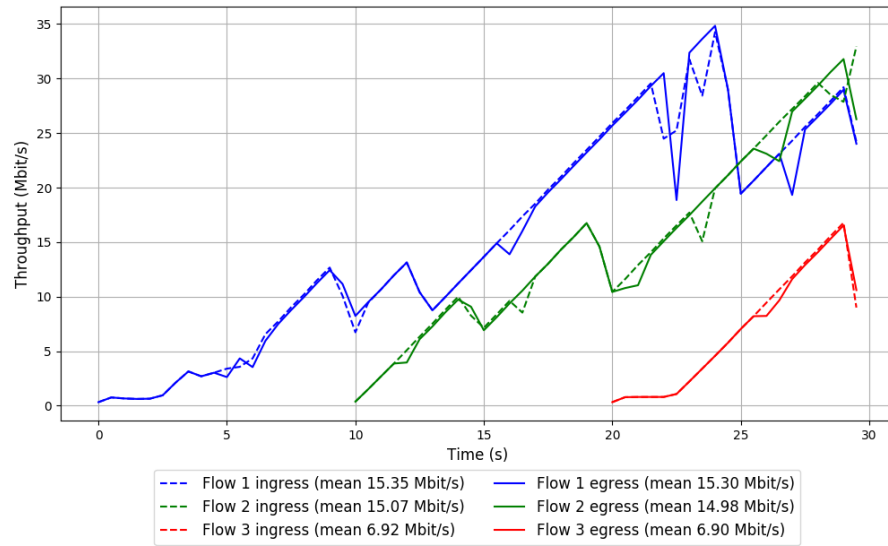


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 16:26:10
End at: 2018-01-26 16:26:40

# Below is generated by plot.py at 2018-01-26 21:20:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 51.630 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 51.725 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 14.98 Mbit/s
95th percentile per-packet one-way delay: 51.399 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 51.811 ms
Loss rate: 1.35%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 16:40:34

End at: 2018-01-26 16:41:04

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 51.218 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 51.222 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 51.251 ms

Loss rate: 0.78%

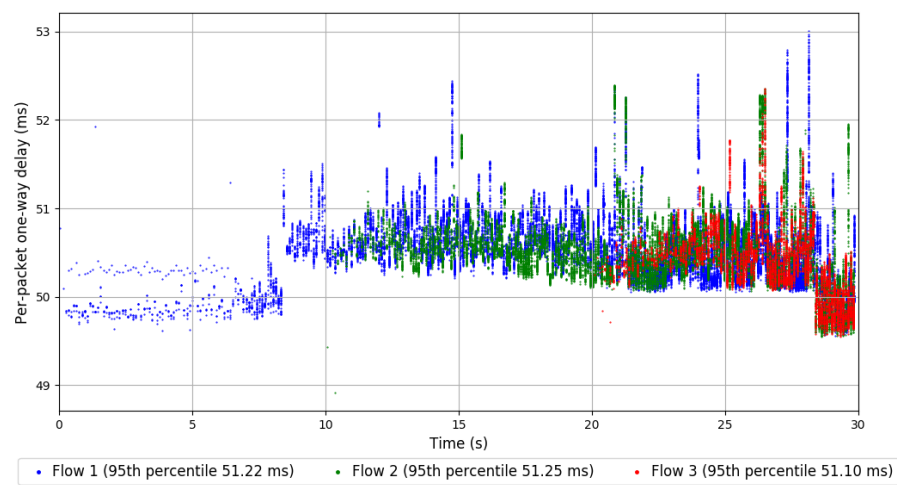
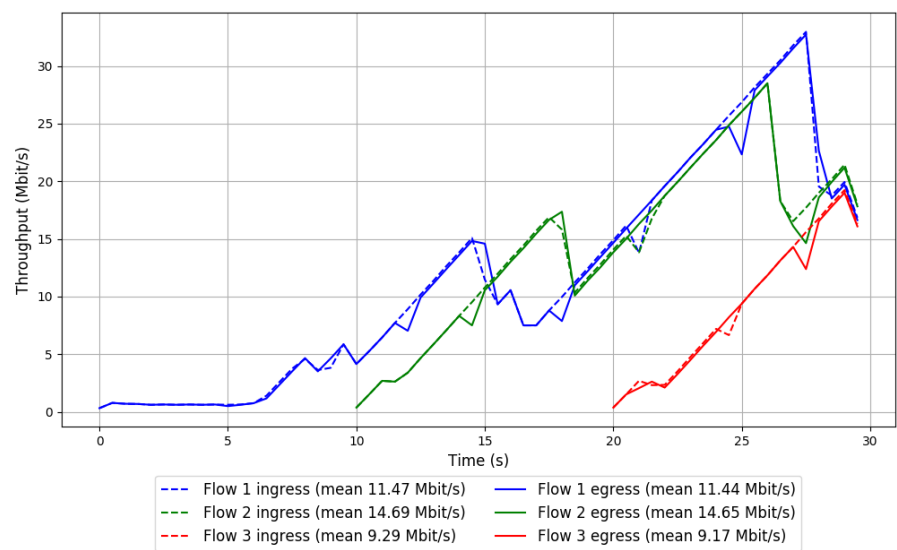
-- Flow 3:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 51.103 ms

Loss rate: 2.27%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 16:55:06

End at: 2018-01-26 16:55:36

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 51.320 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 51.288 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 51.340 ms

Loss rate: 0.79%

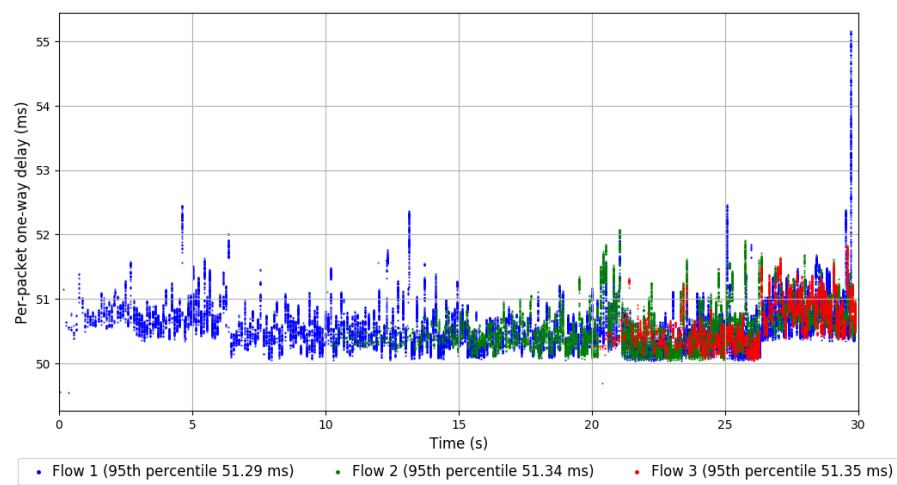
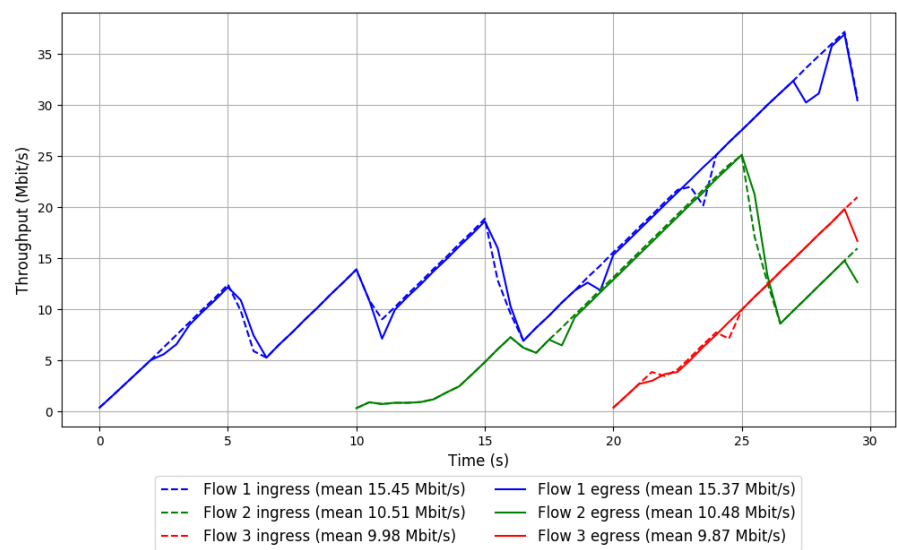
-- Flow 3:

Average throughput: 9.87 Mbit/s

95th percentile per-packet one-way delay: 51.353 ms

Loss rate: 2.17%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 17:09:44

End at: 2018-01-26 17:10:14

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.82 Mbit/s

95th percentile per-packet one-way delay: 51.358 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 51.505 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 51.229 ms

Loss rate: 0.35%

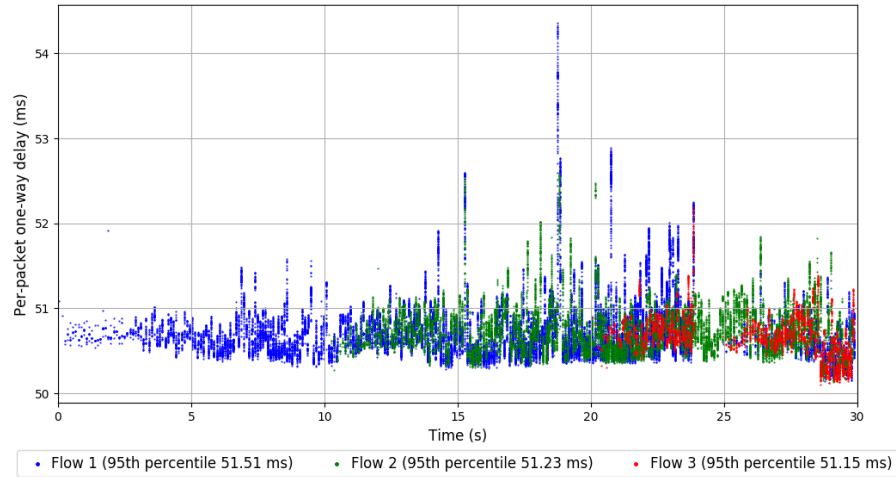
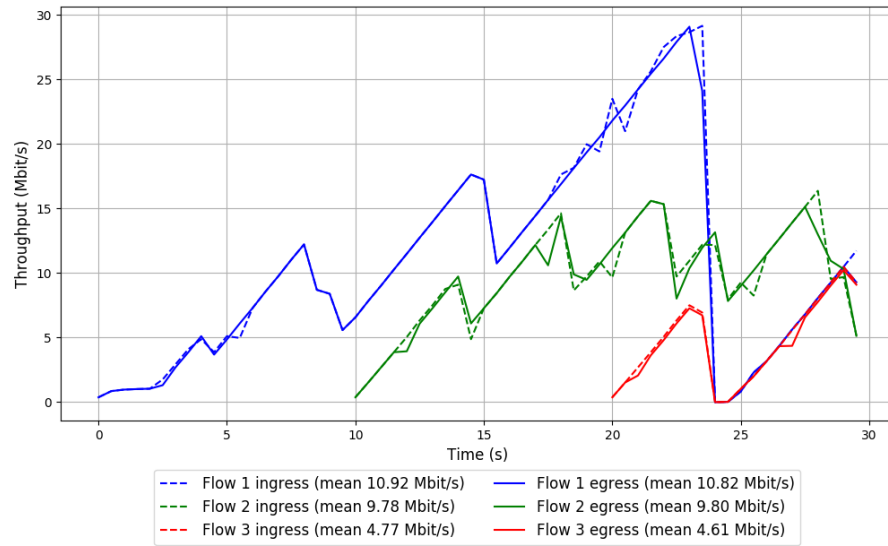
-- Flow 3:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 51.146 ms

Loss rate: 4.45%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-26 17:24:10

End at: 2018-01-26 17:24:40

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.29 Mbit/s

95th percentile per-packet one-way delay: 51.468 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 10.45 Mbit/s

95th percentile per-packet one-way delay: 51.363 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 1.06%

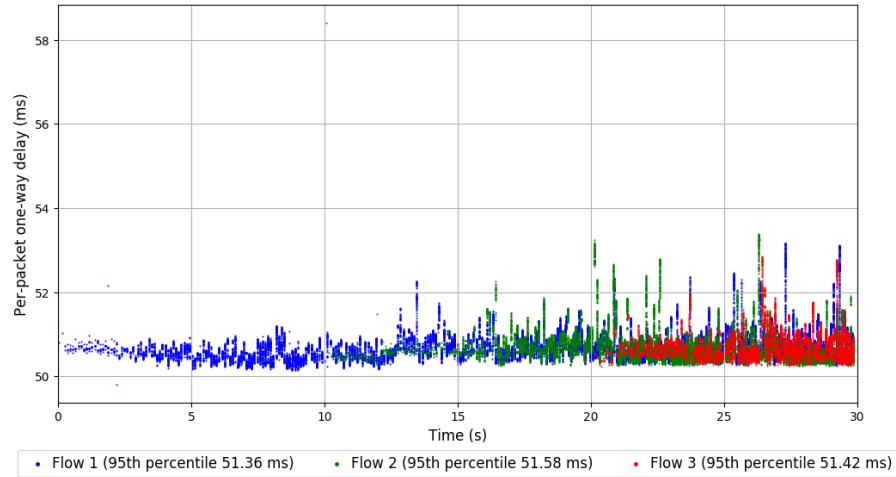
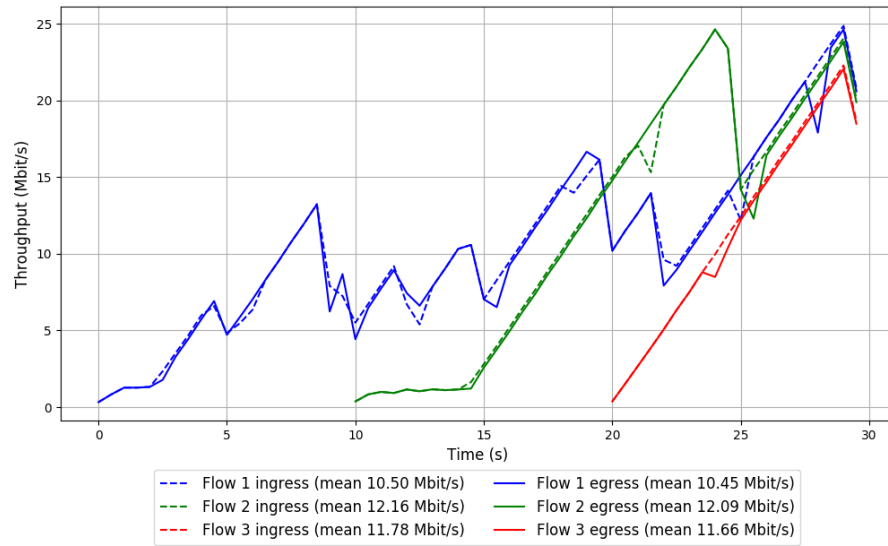
-- Flow 3:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 51.424 ms

Loss rate: 2.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 17:38:37

End at: 2018-01-26 17:39:07

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.91 Mbit/s

95th percentile per-packet one-way delay: 51.347 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 51.299 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 14.72 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.83%

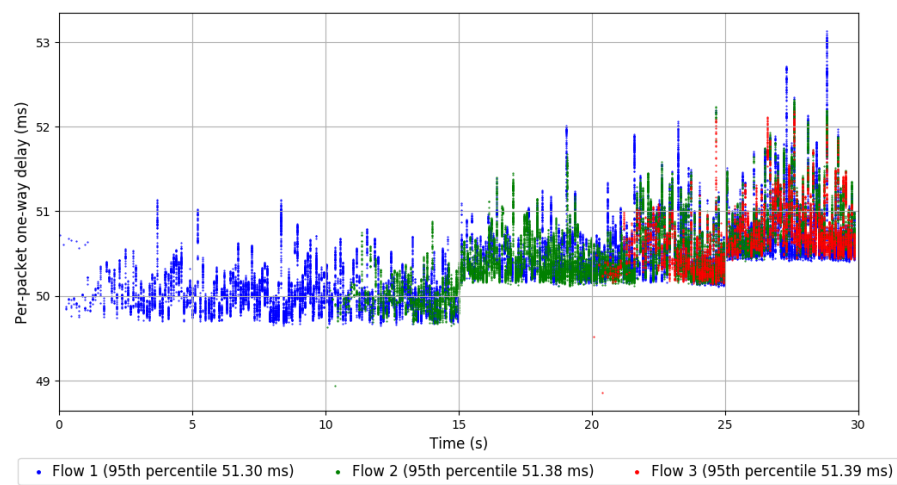
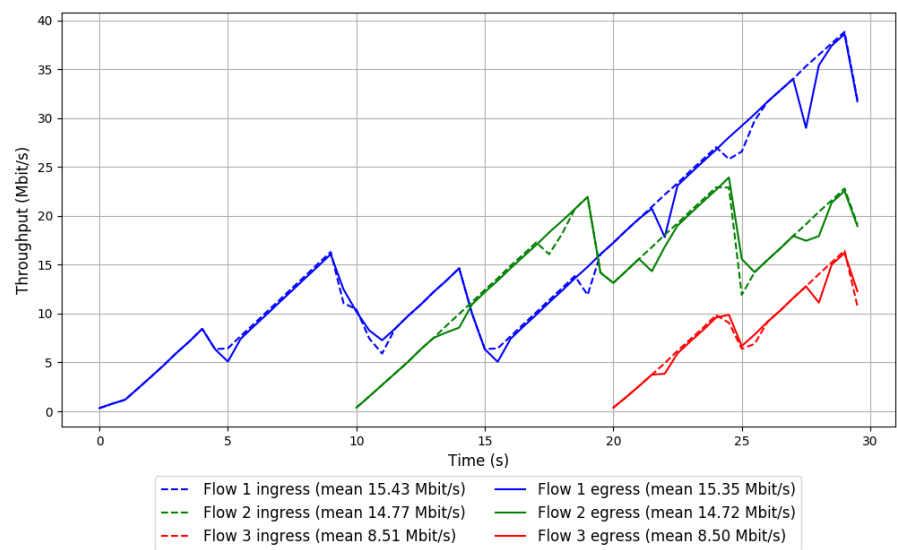
-- Flow 3:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 51.390 ms

Loss rate: 1.12%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 17:52:46

End at: 2018-01-26 17:53:16

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 51.119 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 51.076 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 51.264 ms

Loss rate: 1.76%

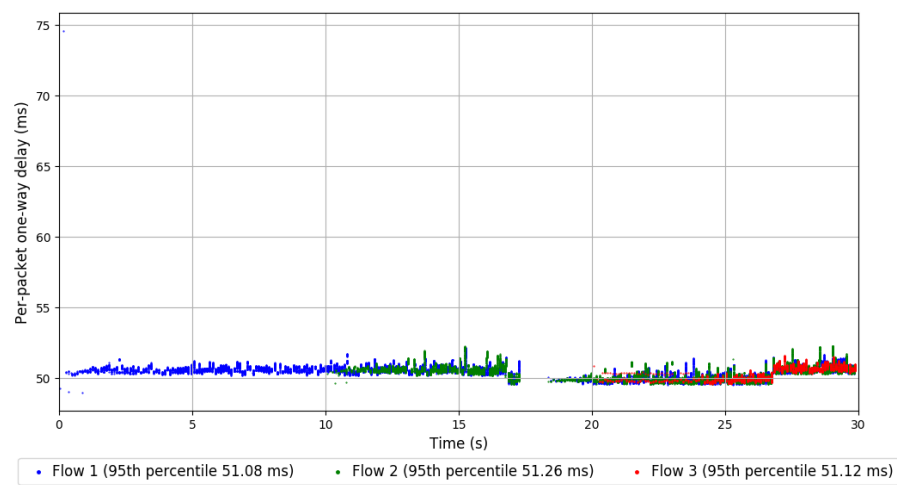
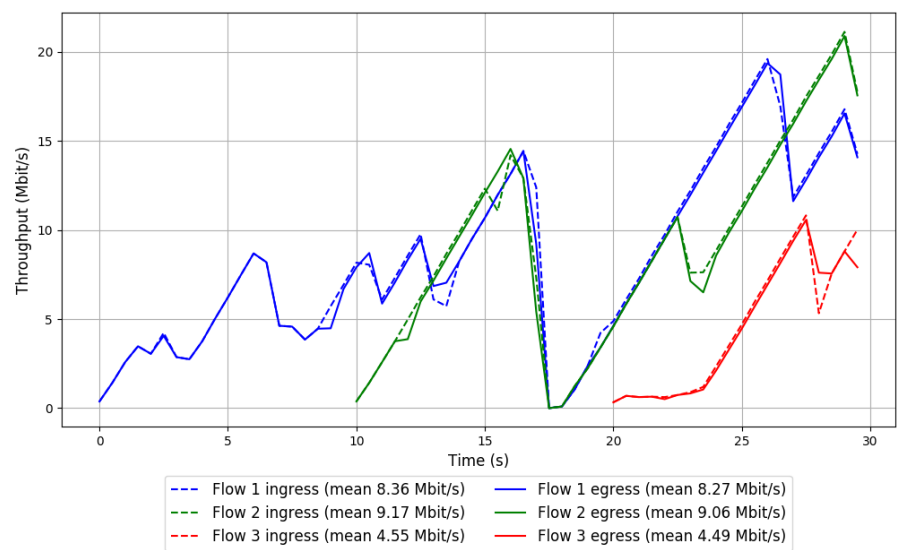
-- Flow 3:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 51.119 ms

Loss rate: 2.35%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 18:07:16

End at: 2018-01-26 18:07:46

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 51.479 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 51.496 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 51.364 ms

Loss rate: 0.94%

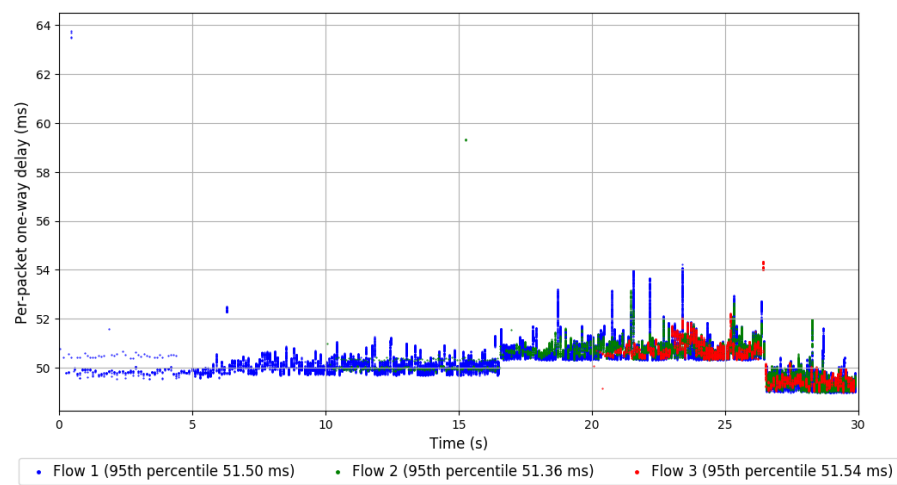
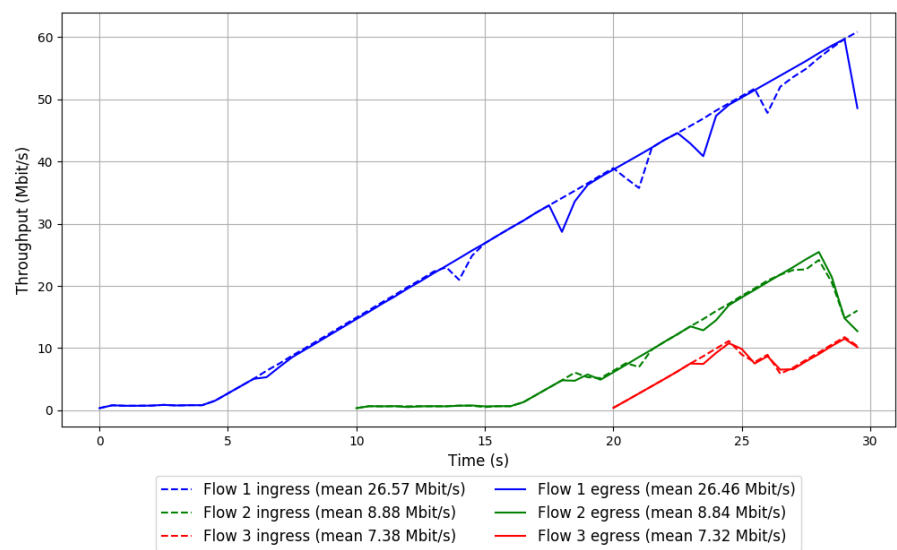
-- Flow 3:

Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 51.538 ms

Loss rate: 1.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 18:21:38

End at: 2018-01-26 18:22:08

Below is generated by plot.py at 2018-01-26 21:20:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.66 Mbit/s

95th percentile per-packet one-way delay: 51.588 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 51.564 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 51.522 ms

Loss rate: 0.80%

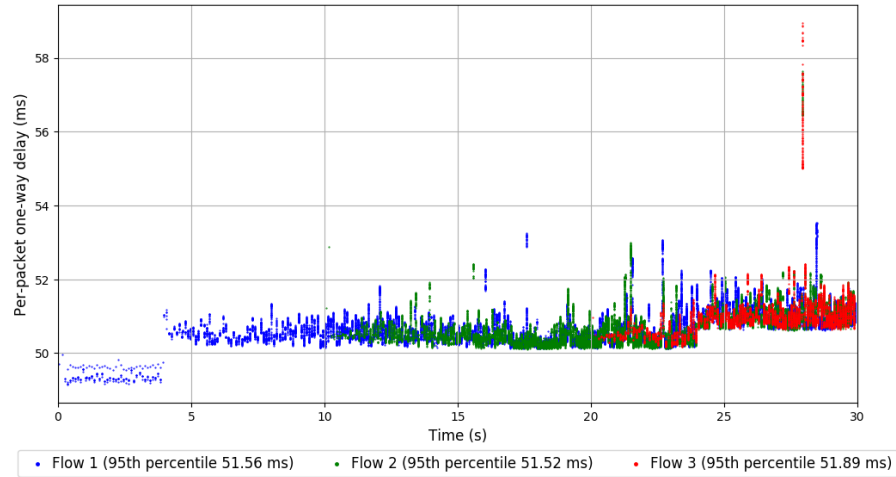
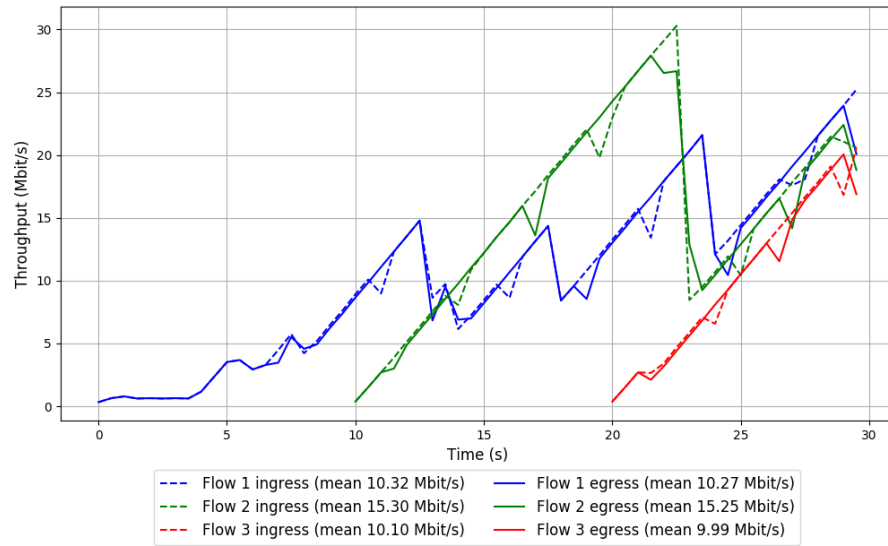
-- Flow 3:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 2.18%

Run 10: Report of LEDBAT — Data Link

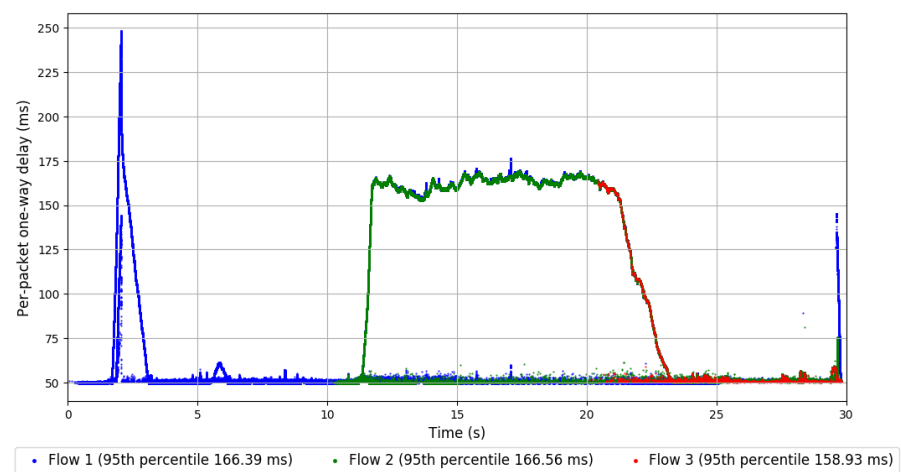
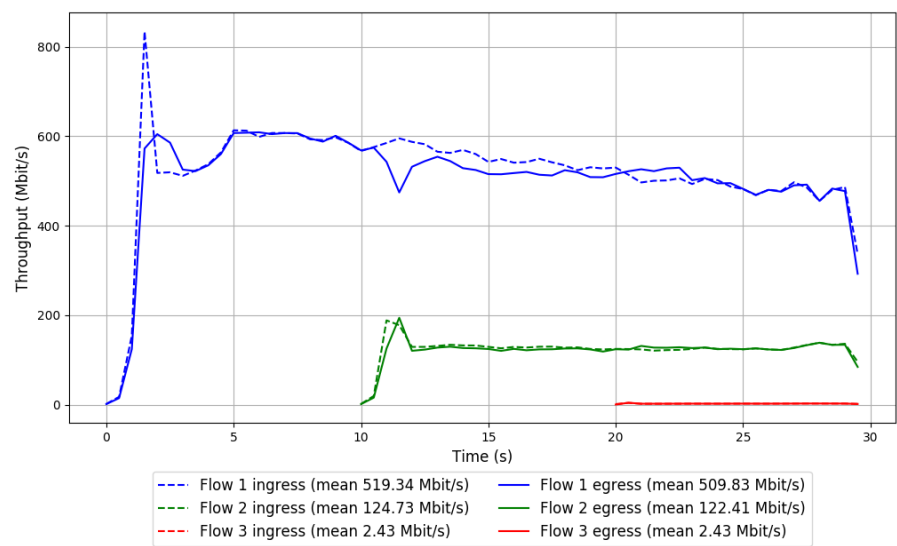


```
Run 1: Statistics of PCC

Start at: 2018-01-26 16:24:27
End at: 2018-01-26 16:24:57

# Below is generated by plot.py at 2018-01-26 21:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 591.86 Mbit/s
95th percentile per-packet one-way delay: 166.427 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 509.83 Mbit/s
95th percentile per-packet one-way delay: 166.386 ms
Loss rate: 2.17%
-- Flow 2:
Average throughput: 122.41 Mbit/s
95th percentile per-packet one-way delay: 166.564 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 158.929 ms
Loss rate: 1.10%
```

Run 1: Report of PCC — Data Link

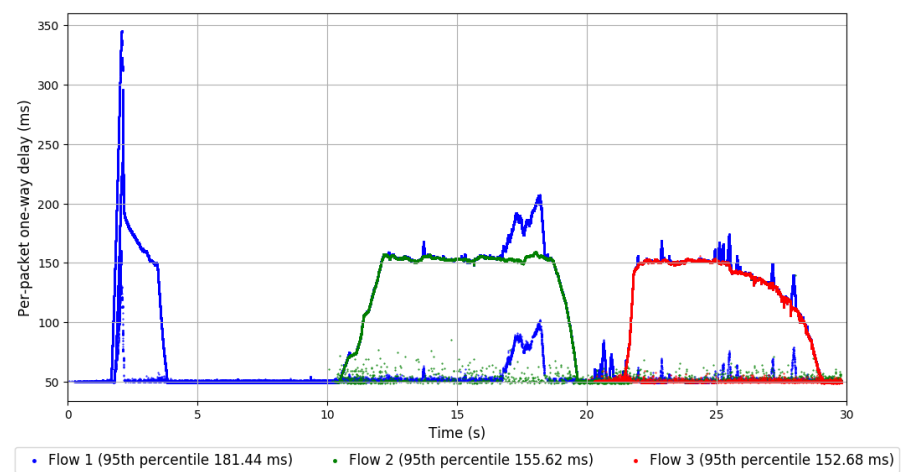
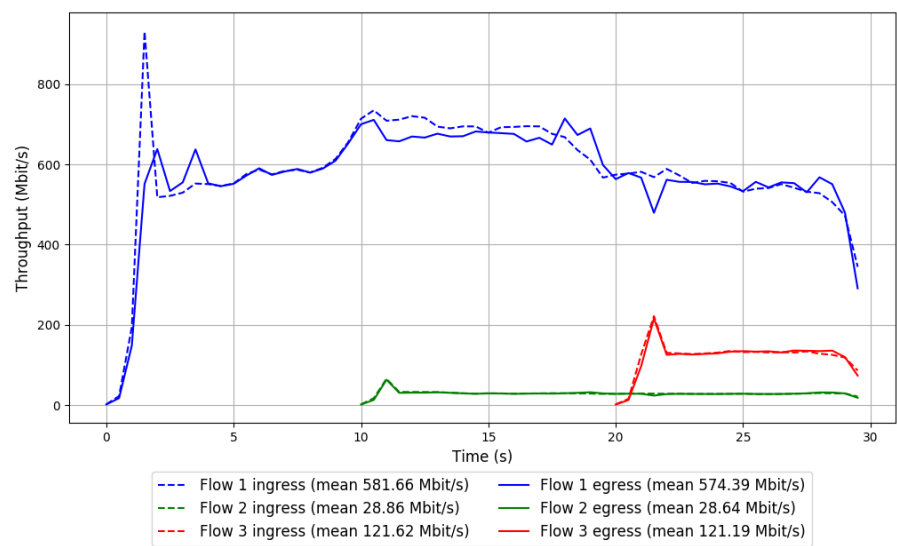


```
Run 2: Statistics of PCC

Start at: 2018-01-26 16:38:51
End at: 2018-01-26 16:39:21

# Below is generated by plot.py at 2018-01-26 21:29:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 633.02 Mbit/s
95th percentile per-packet one-way delay: 179.044 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 574.39 Mbit/s
95th percentile per-packet one-way delay: 181.440 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 155.620 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 121.19 Mbit/s
95th percentile per-packet one-way delay: 152.682 ms
Loss rate: 1.39%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 16:53:25

End at: 2018-01-26 16:53:55

Below is generated by plot.py at 2018-01-26 21:29:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 570.39 Mbit/s

95th percentile per-packet one-way delay: 177.031 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 556.38 Mbit/s

95th percentile per-packet one-way delay: 177.235 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 174.031 ms

Loss rate: 1.28%

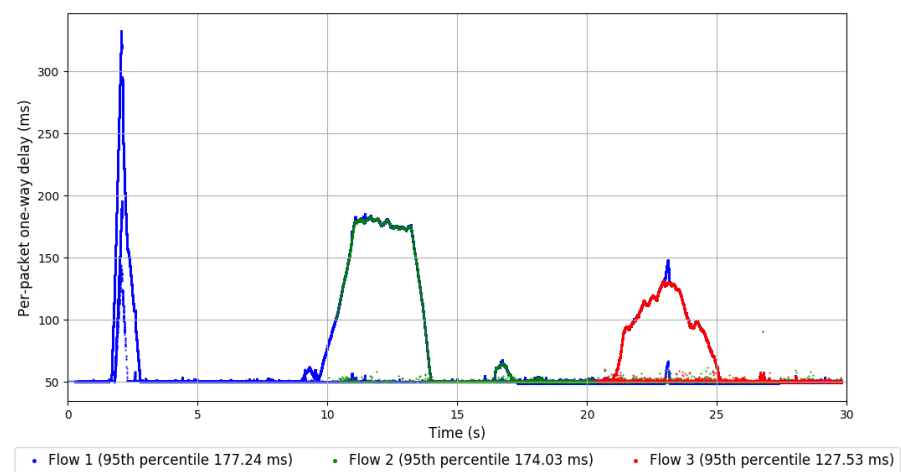
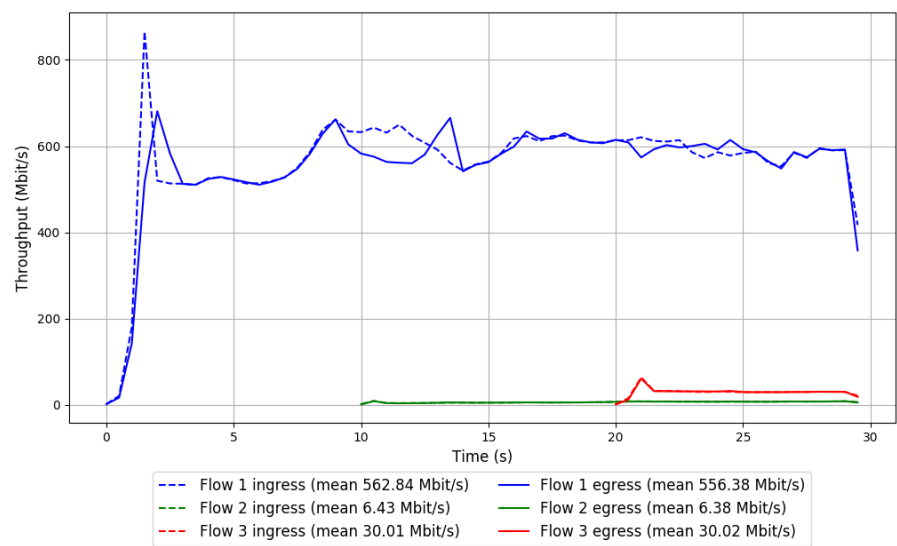
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 127.534 ms

Loss rate: 0.99%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 17:08:01

End at: 2018-01-26 17:08:31

Below is generated by plot.py at 2018-01-26 21:29:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 587.17 Mbit/s

95th percentile per-packet one-way delay: 189.803 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 528.69 Mbit/s

95th percentile per-packet one-way delay: 202.717 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 162.584 ms

Loss rate: 2.28%

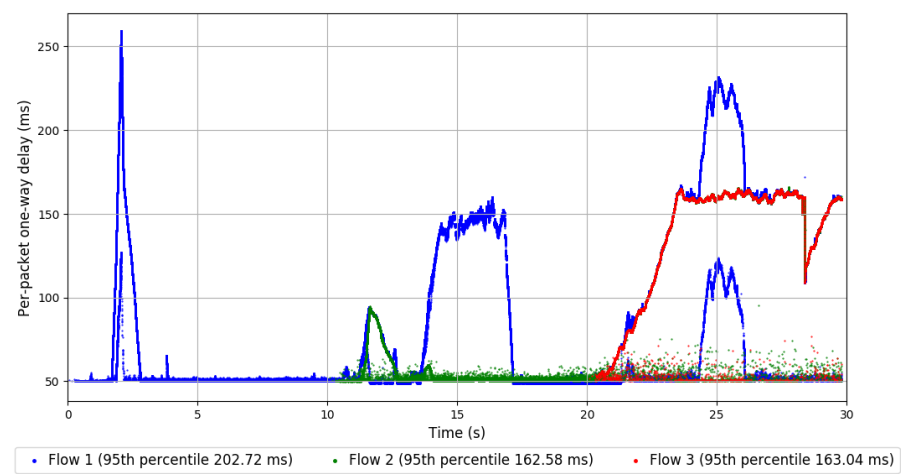
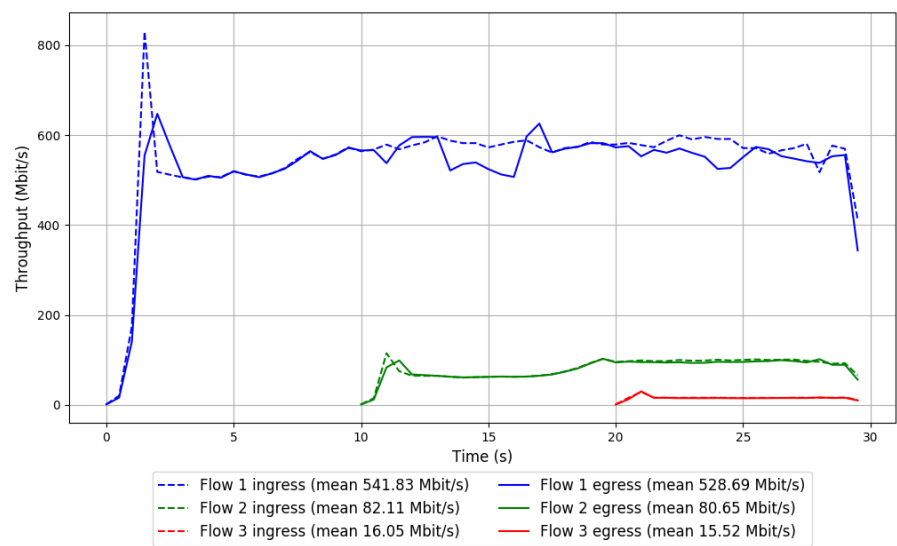
-- Flow 3:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 163.045 ms

Loss rate: 4.33%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 17:22:27

End at: 2018-01-26 17:22:57

Below is generated by plot.py at 2018-01-26 21:29:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 597.37 Mbit/s

95th percentile per-packet one-way delay: 164.238 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 584.19 Mbit/s

95th percentile per-packet one-way delay: 164.212 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 163.400 ms

Loss rate: 2.27%

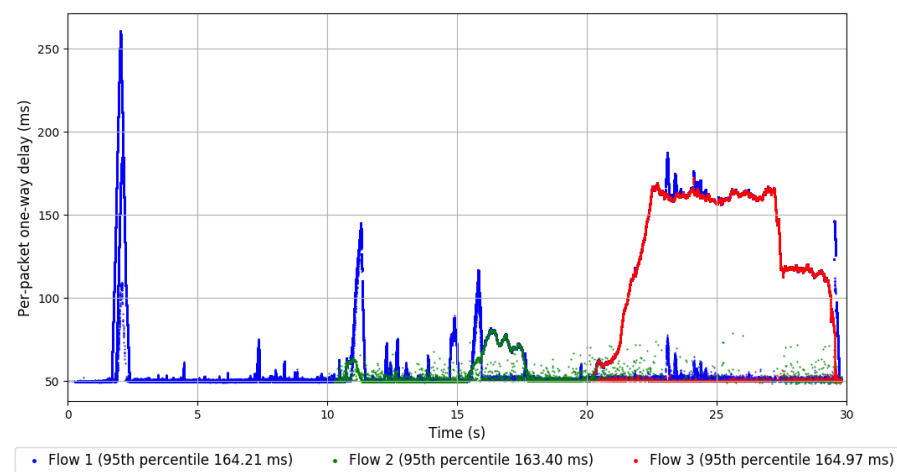
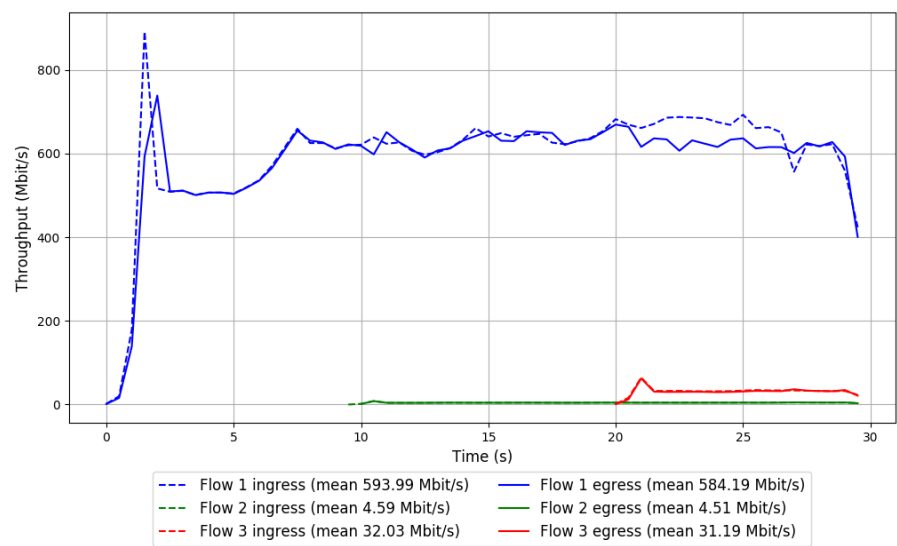
-- Flow 3:

Average throughput: 31.19 Mbit/s

95th percentile per-packet one-way delay: 164.966 ms

Loss rate: 3.76%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 17:36:55

End at: 2018-01-26 17:37:25

Below is generated by plot.py at 2018-01-26 21:30:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 595.95 Mbit/s

95th percentile per-packet one-way delay: 162.626 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 545.06 Mbit/s

95th percentile per-packet one-way delay: 162.946 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 62.00 Mbit/s

95th percentile per-packet one-way delay: 160.606 ms

Loss rate: 1.47%

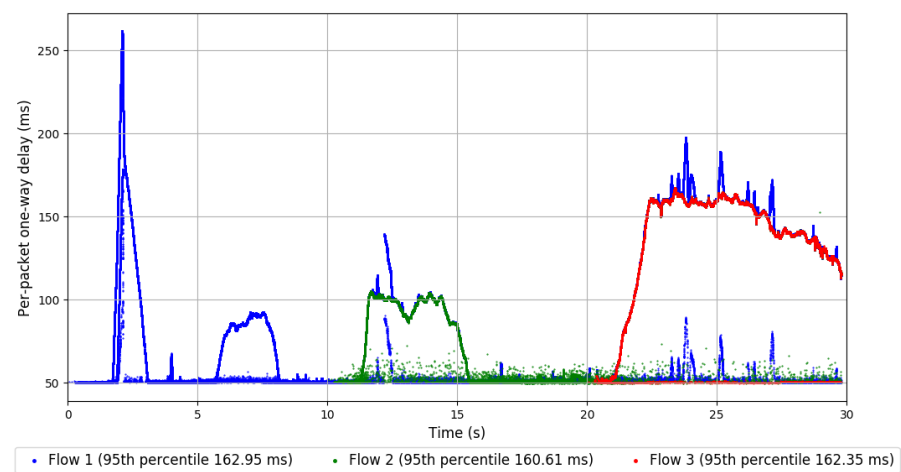
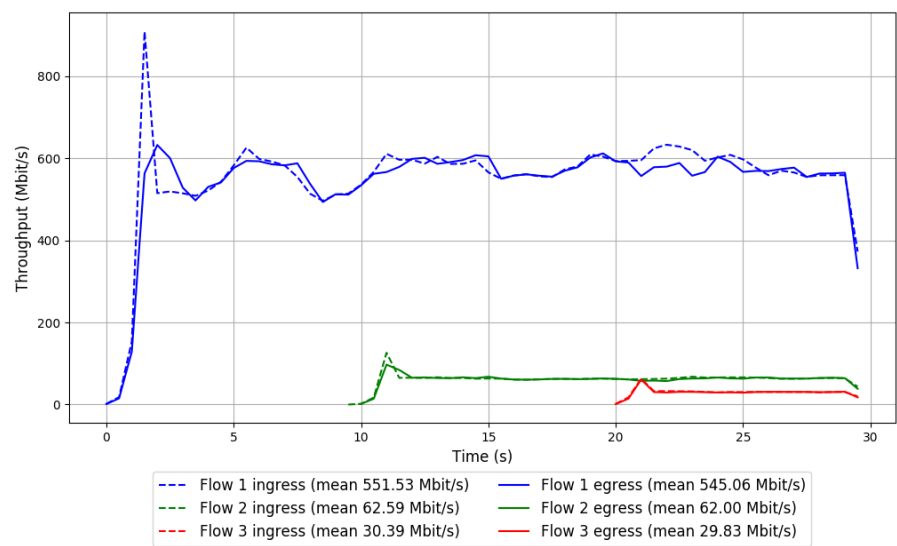
-- Flow 3:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 162.352 ms

Loss rate: 2.87%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 17:51:03

End at: 2018-01-26 17:51:33

Below is generated by plot.py at 2018-01-26 21:30:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 590.60 Mbit/s

95th percentile per-packet one-way delay: 164.547 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 492.47 Mbit/s

95th percentile per-packet one-way delay: 164.783 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 139.79 Mbit/s

95th percentile per-packet one-way delay: 163.579 ms

Loss rate: 2.69%

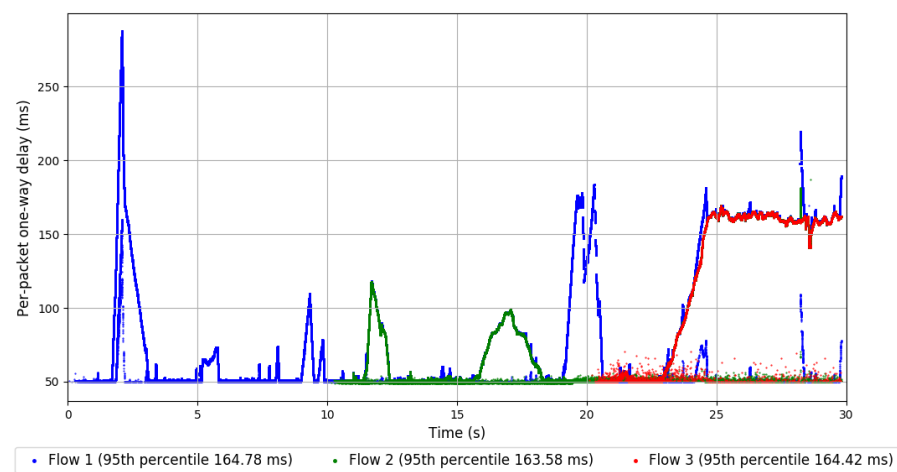
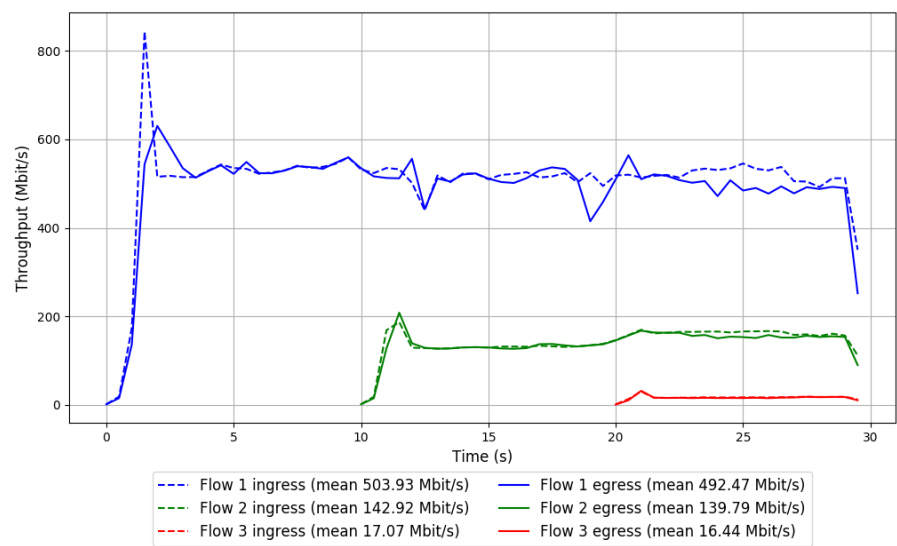
-- Flow 3:

Average throughput: 16.44 Mbit/s

95th percentile per-packet one-way delay: 164.419 ms

Loss rate: 4.70%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 18:05:33

End at: 2018-01-26 18:06:03

Below is generated by plot.py at 2018-01-26 21:31:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 599.55 Mbit/s

95th percentile per-packet one-way delay: 146.292 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 577.58 Mbit/s

95th percentile per-packet one-way delay: 149.350 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 16.47 Mbit/s

95th percentile per-packet one-way delay: 133.687 ms

Loss rate: 0.53%

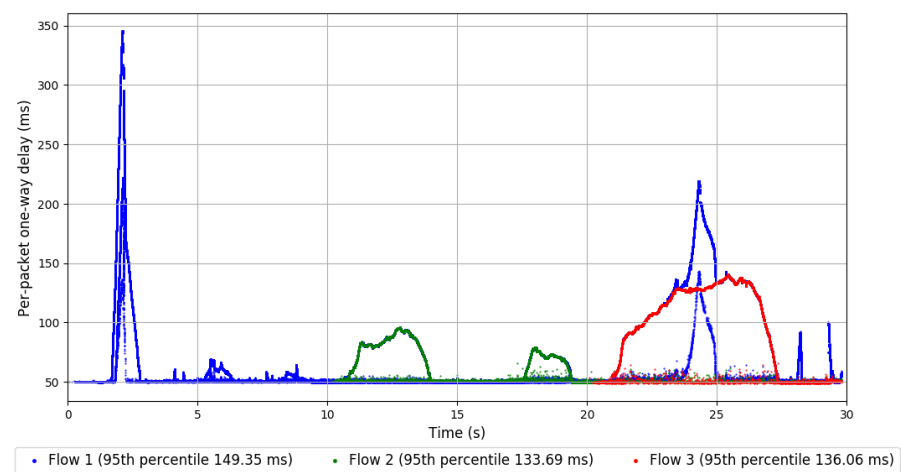
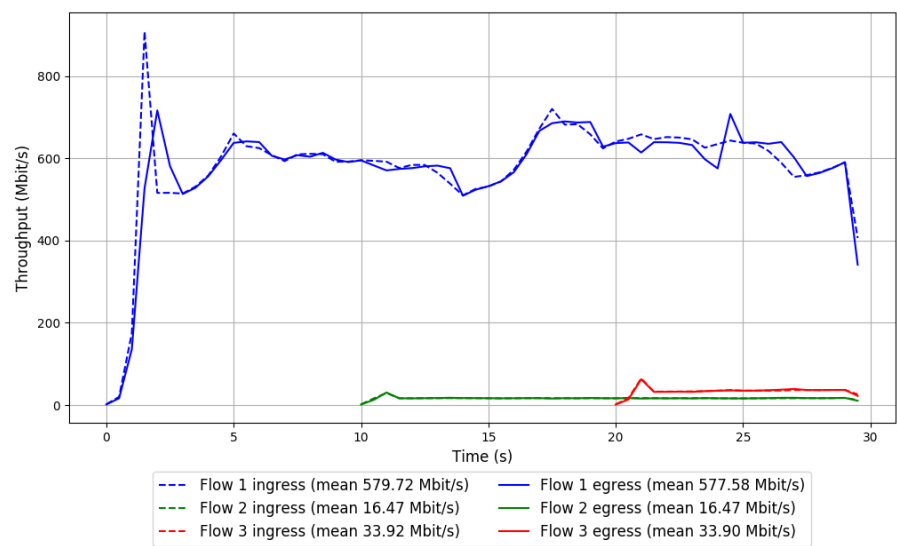
-- Flow 3:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 136.056 ms

Loss rate: 1.13%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 18:19:55

End at: 2018-01-26 18:20:25

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 595.53 Mbit/s

95th percentile per-packet one-way delay: 169.297 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 479.39 Mbit/s

95th percentile per-packet one-way delay: 170.487 ms

Loss rate: 4.33%

-- Flow 2:

Average throughput: 121.66 Mbit/s

95th percentile per-packet one-way delay: 166.355 ms

Loss rate: 4.82%

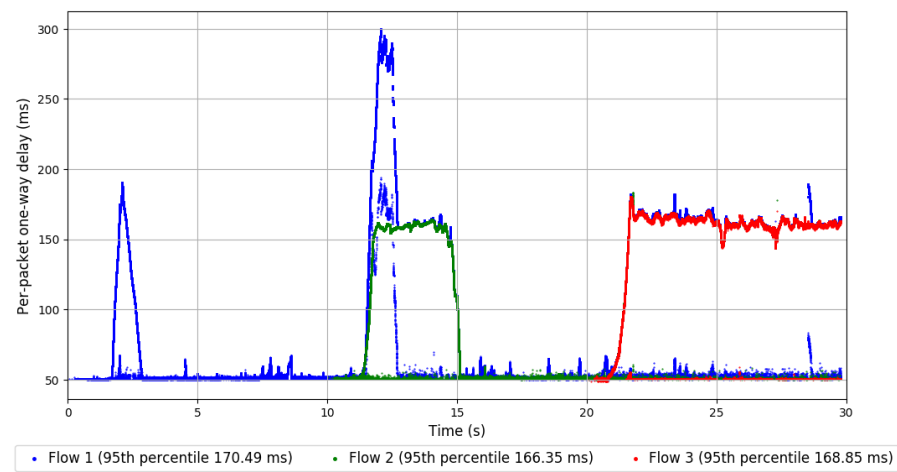
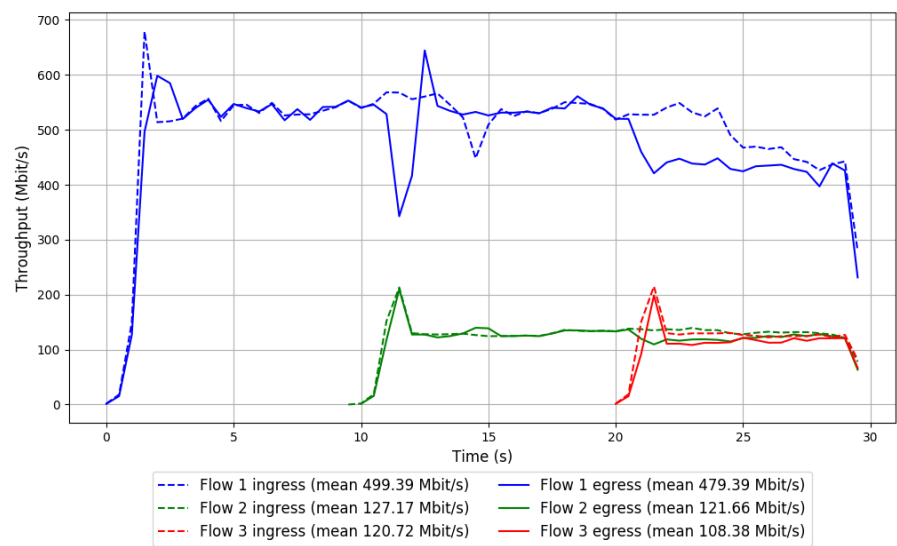
-- Flow 3:

Average throughput: 108.38 Mbit/s

95th percentile per-packet one-way delay: 168.849 ms

Loss rate: 11.14%

Run 9: Report of PCC — Data Link

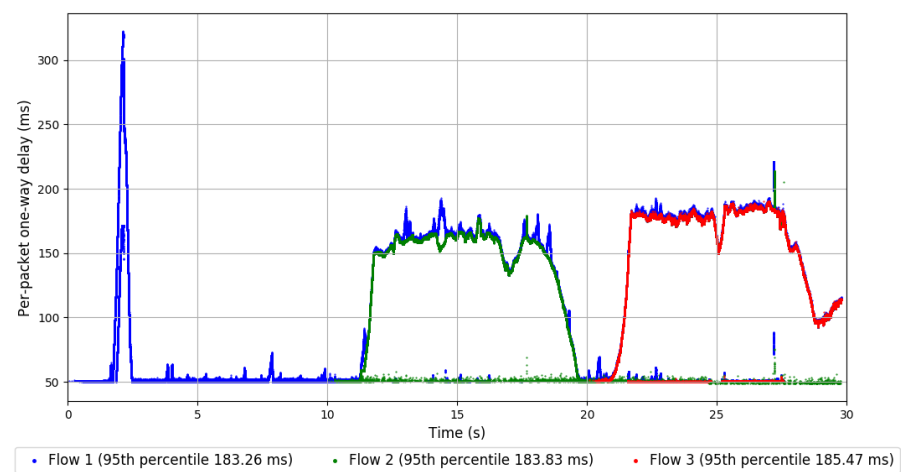
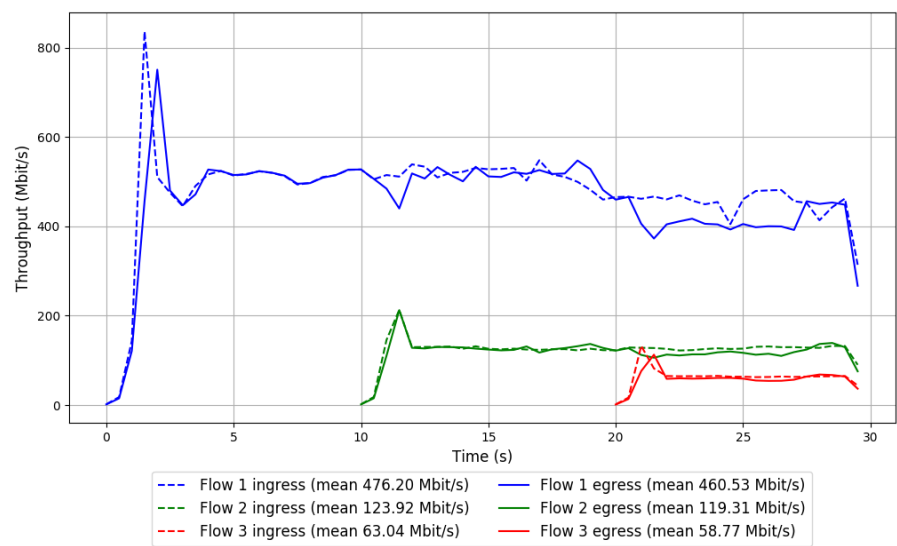


```
Run 10: Statistics of PCC

Start at: 2018-01-26 18:34:18
End at: 2018-01-26 18:34:48

# Below is generated by plot.py at 2018-01-26 21:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 558.84 Mbit/s
95th percentile per-packet one-way delay: 183.642 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 460.53 Mbit/s
95th percentile per-packet one-way delay: 183.263 ms
Loss rate: 3.62%
-- Flow 2:
Average throughput: 119.31 Mbit/s
95th percentile per-packet one-way delay: 183.830 ms
Loss rate: 4.21%
-- Flow 3:
Average throughput: 58.77 Mbit/s
95th percentile per-packet one-way delay: 185.474 ms
Loss rate: 7.74%
```

Run 10: Report of PCC — Data Link

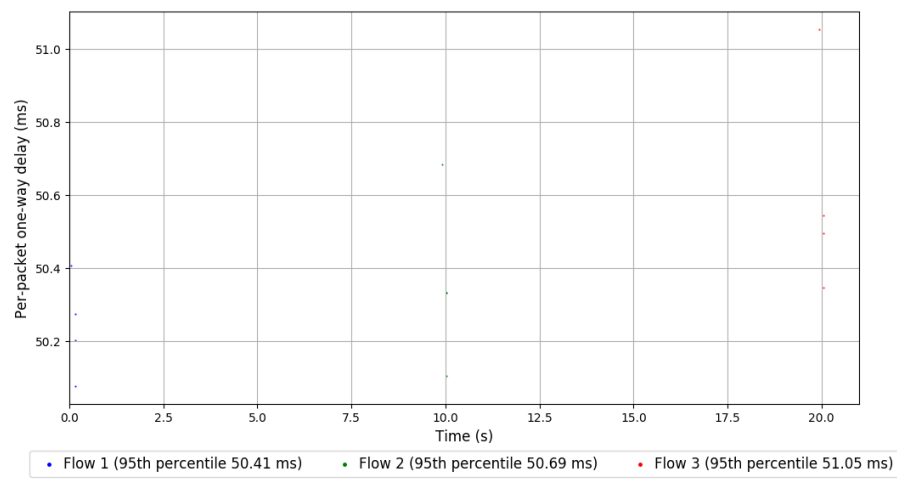
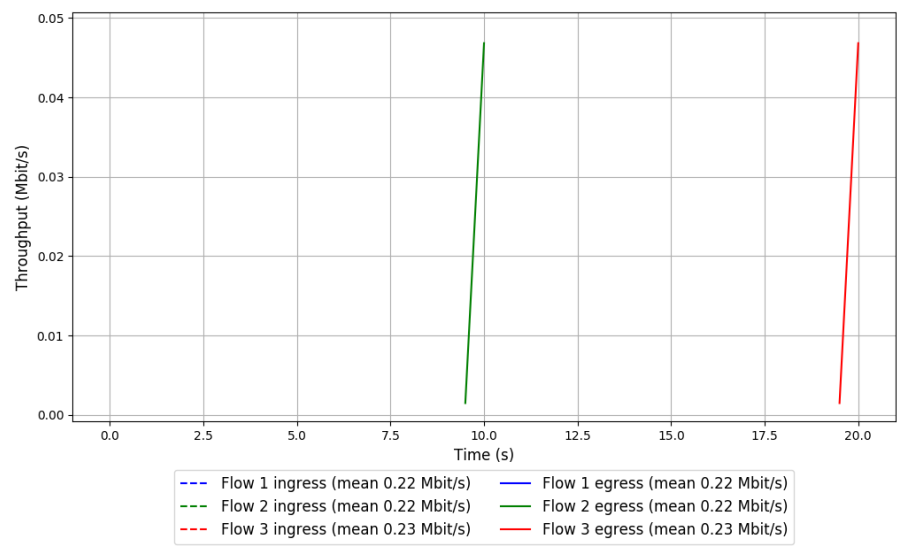


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 16:18:54

End at: 2018-01-26 16:19:24

Run 1: Report of QUIC Cubic — Data Link

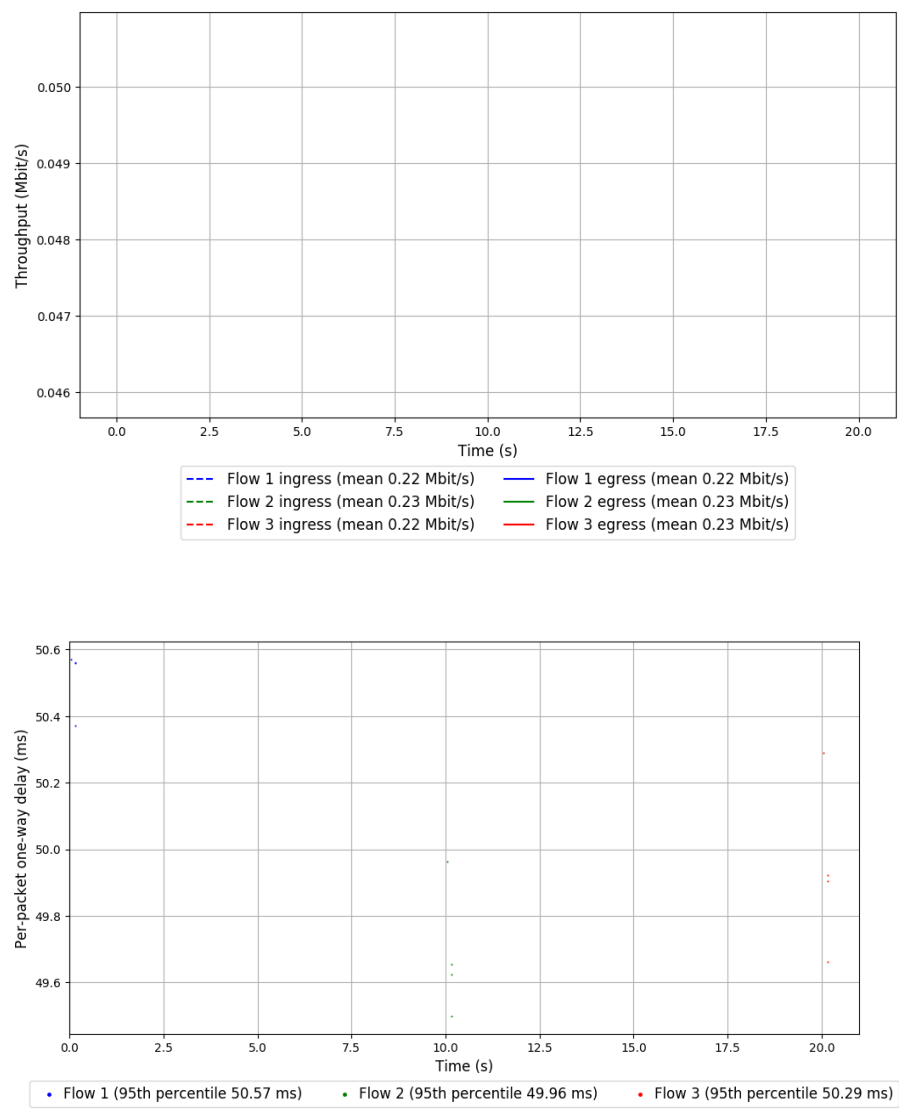


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 16:33:17

End at: 2018-01-26 16:33:47

Run 2: Report of QUIC Cubic — Data Link

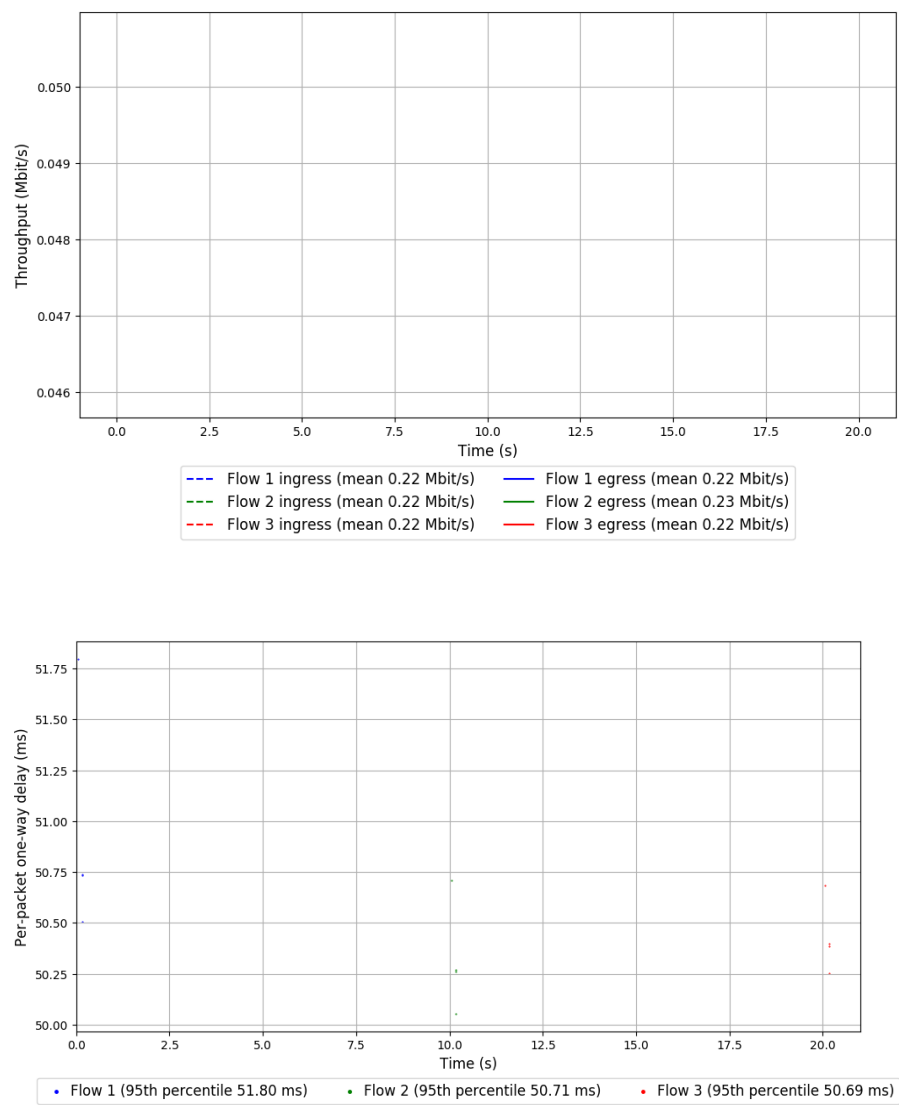


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 16:47:46

End at: 2018-01-26 16:48:16

Run 3: Report of QUIC Cubic — Data Link

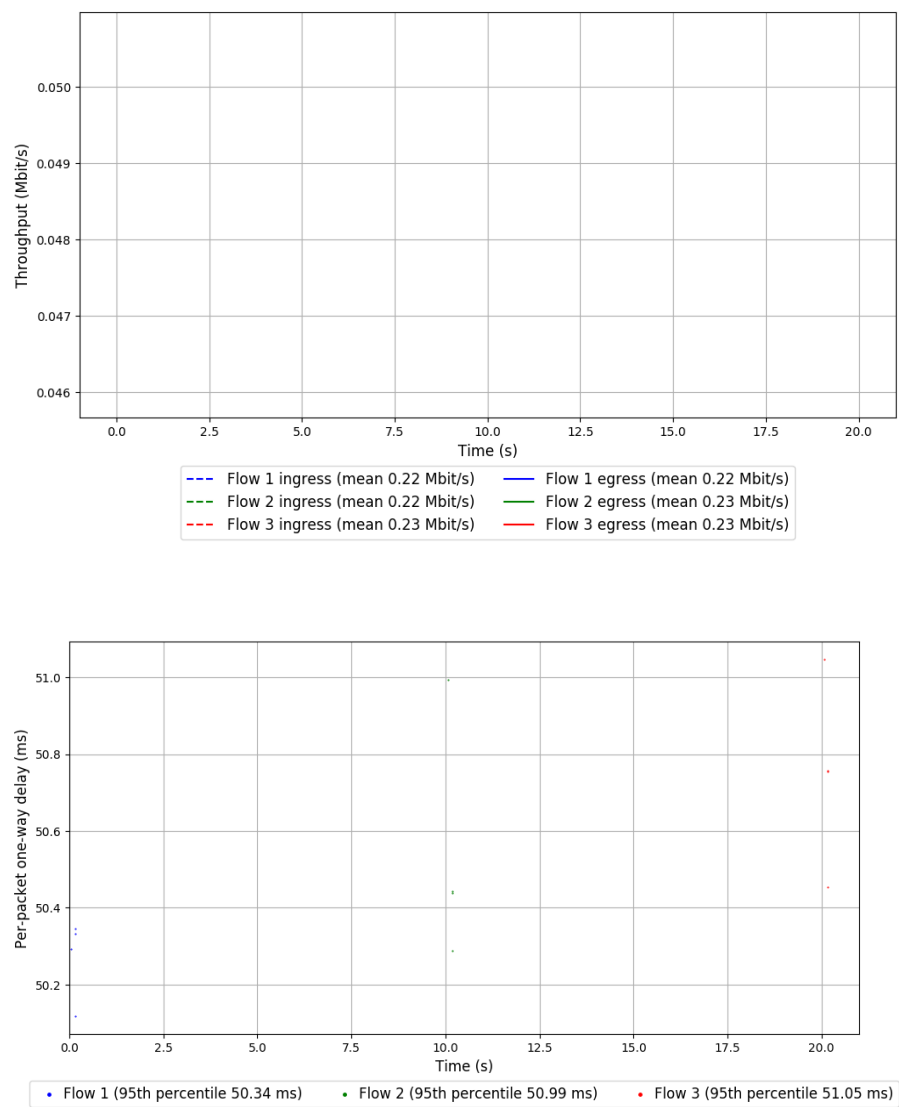


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 17:02:19

End at: 2018-01-26 17:02:49

Run 4: Report of QUIC Cubic — Data Link

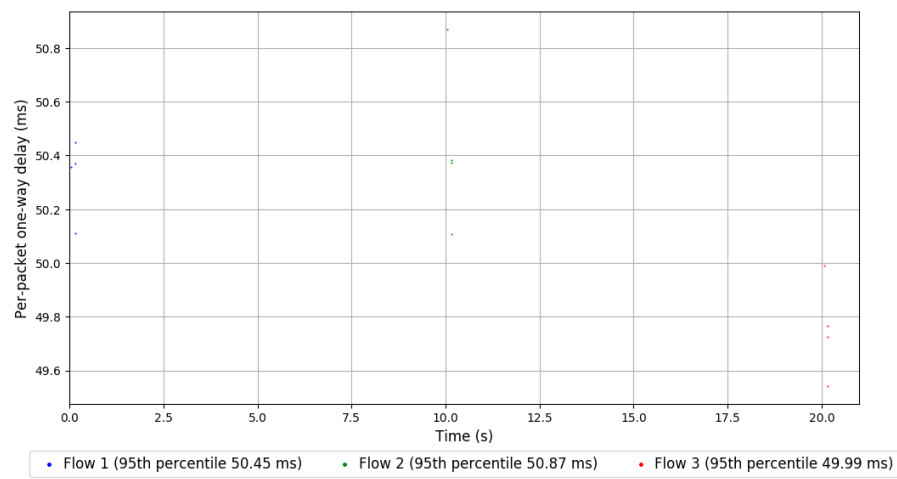
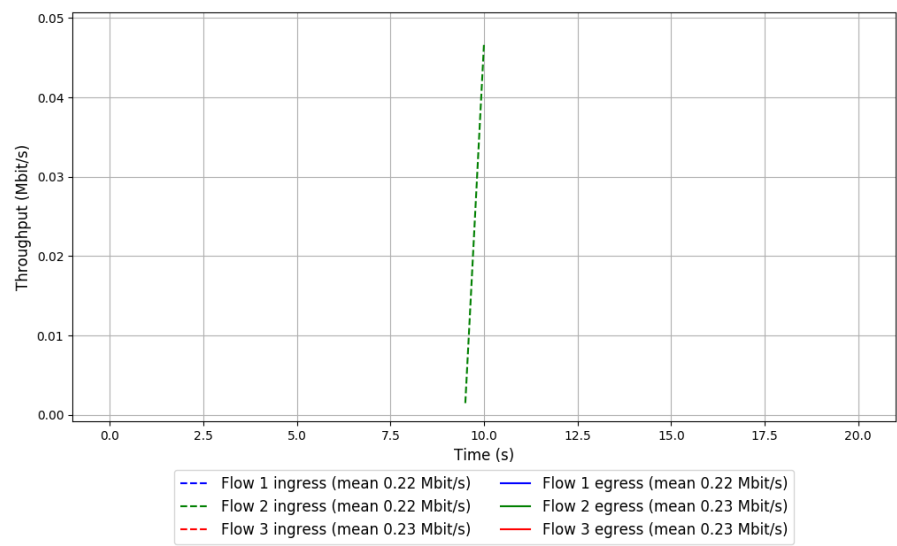


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 17:16:51

End at: 2018-01-26 17:17:21

Run 5: Report of QUIC Cubic — Data Link

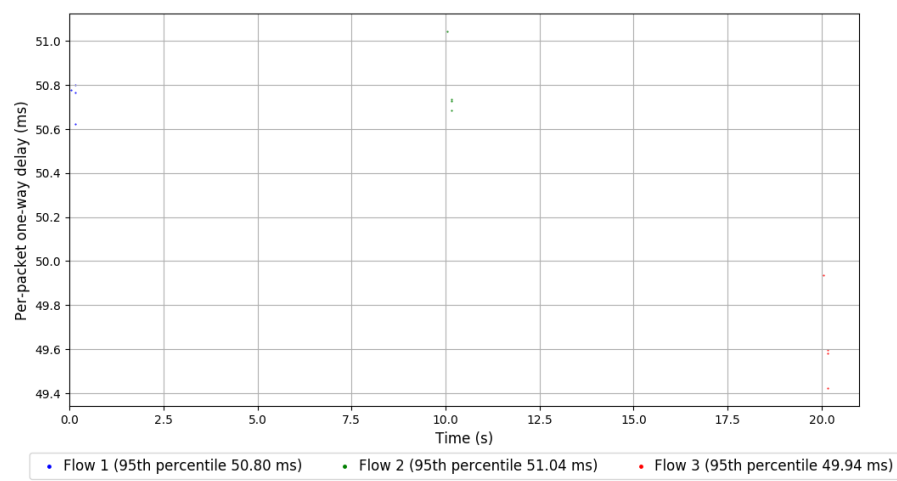
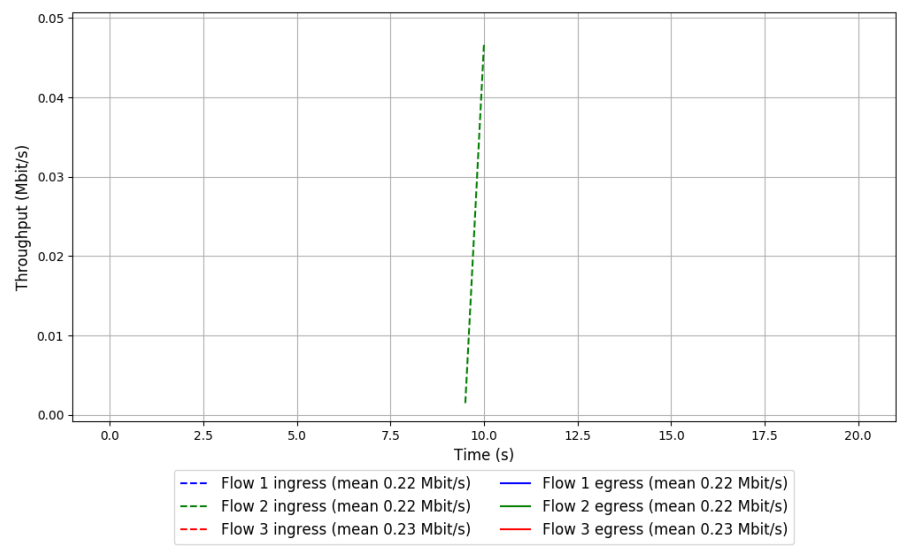


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 17:31:20

End at: 2018-01-26 17:31:50

Run 6: Report of QUIC Cubic — Data Link

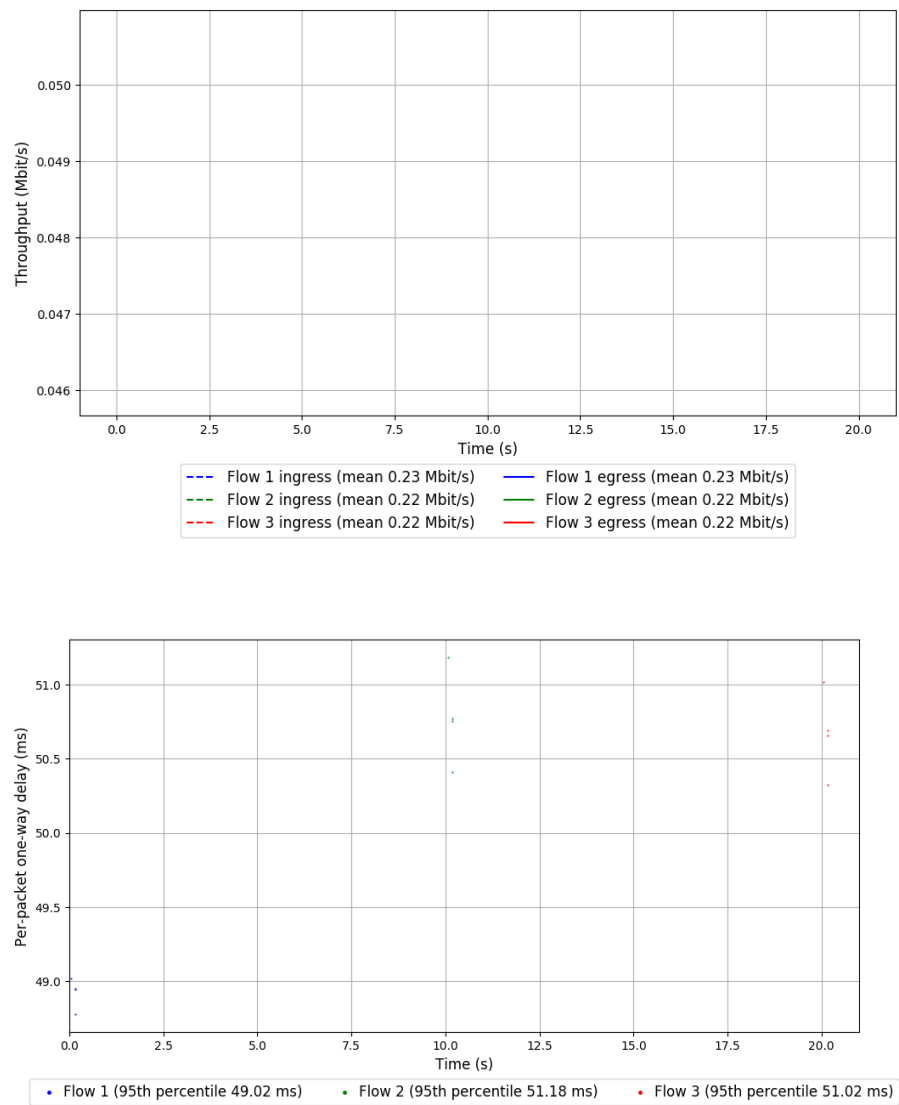


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 17:45:31

End at: 2018-01-26 17:46:01

Run 7: Report of QUIC Cubic — Data Link

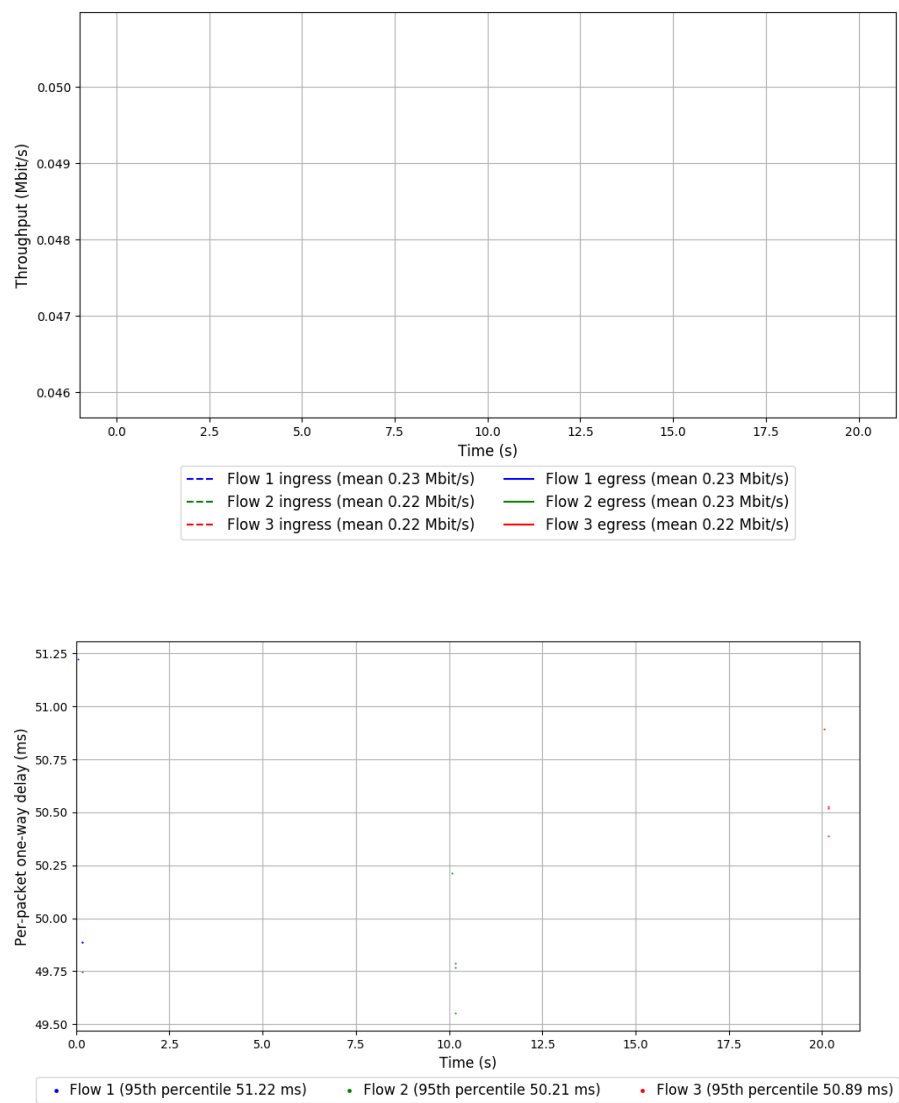


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 17:59:57

End at: 2018-01-26 18:00:27

Run 8: Report of QUIC Cubic — Data Link

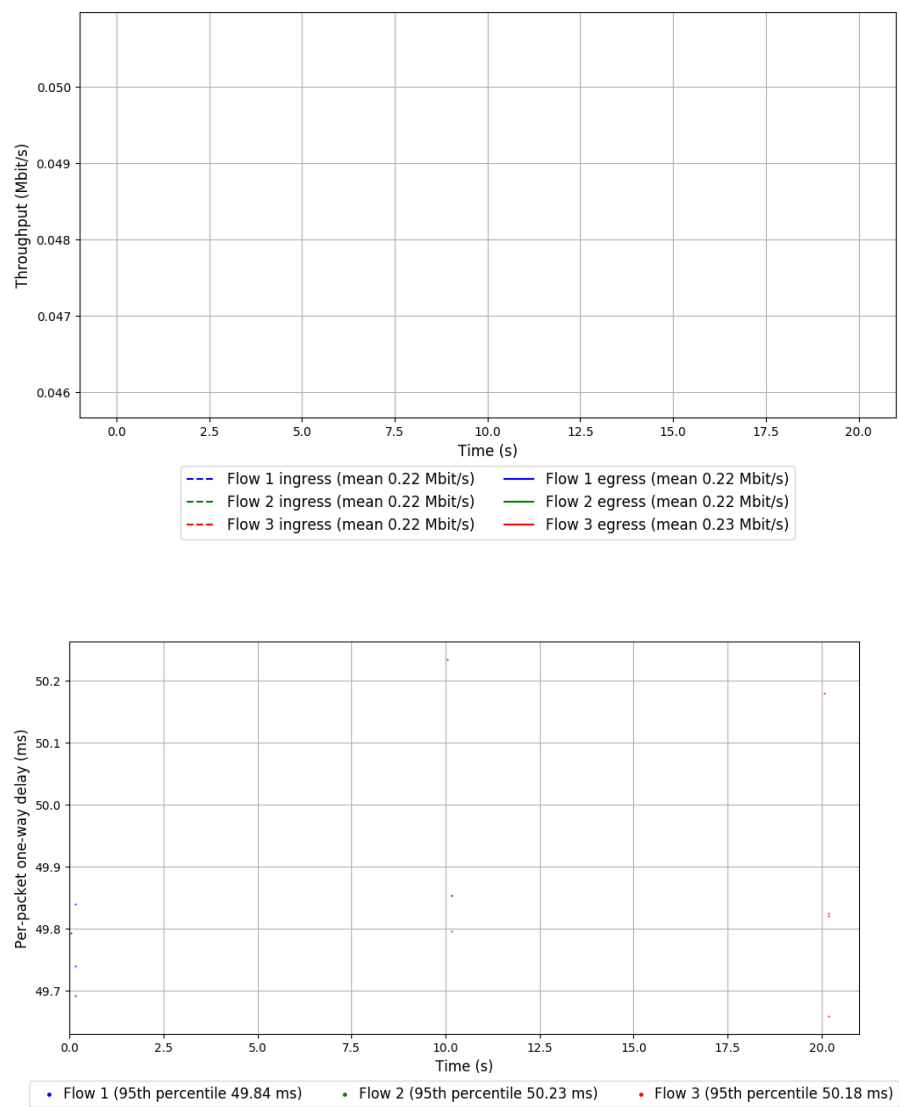


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 18:14:21

End at: 2018-01-26 18:14:51

Run 9: Report of QUIC Cubic — Data Link

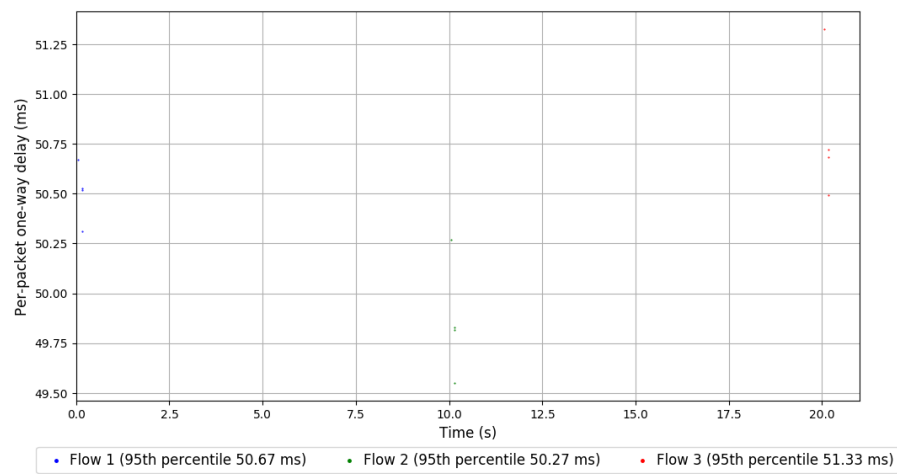
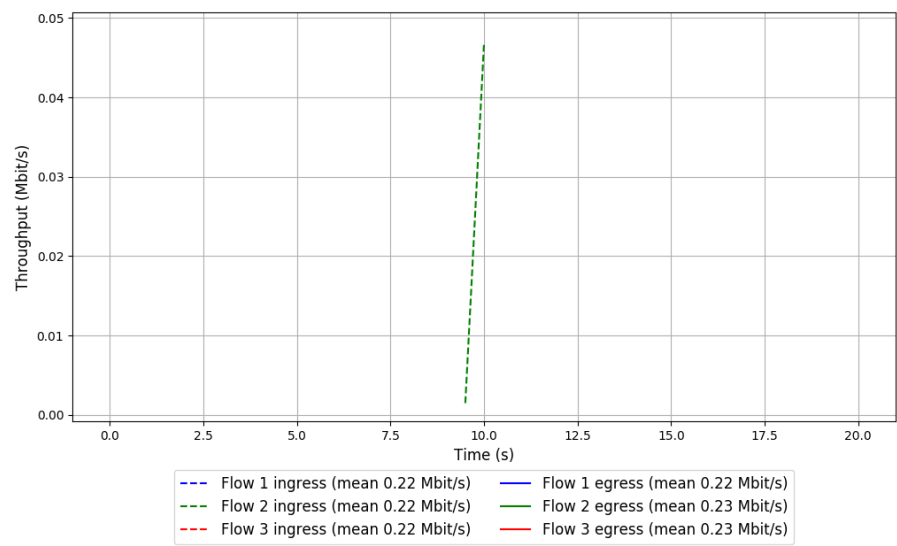


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 18:28:45

End at: 2018-01-26 18:29:15

Run 10: Report of QUIC Cubic — Data Link

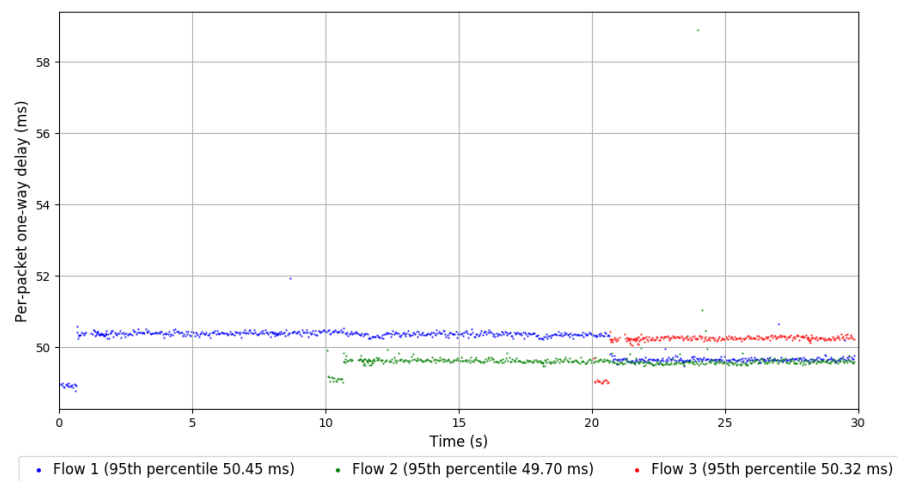
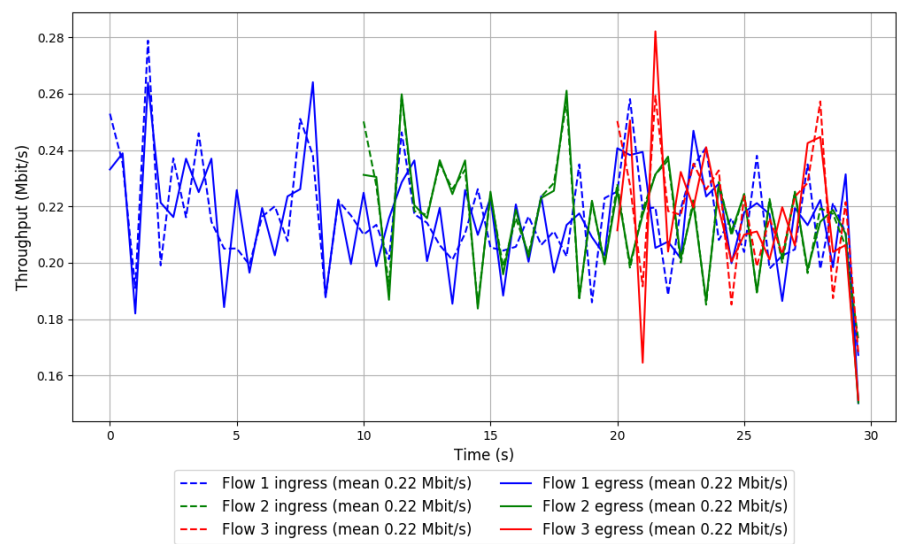


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 16:11:02
End at: 2018-01-26 16:11:32

# Below is generated by plot.py at 2018-01-26 21:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.424 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.448 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.703 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

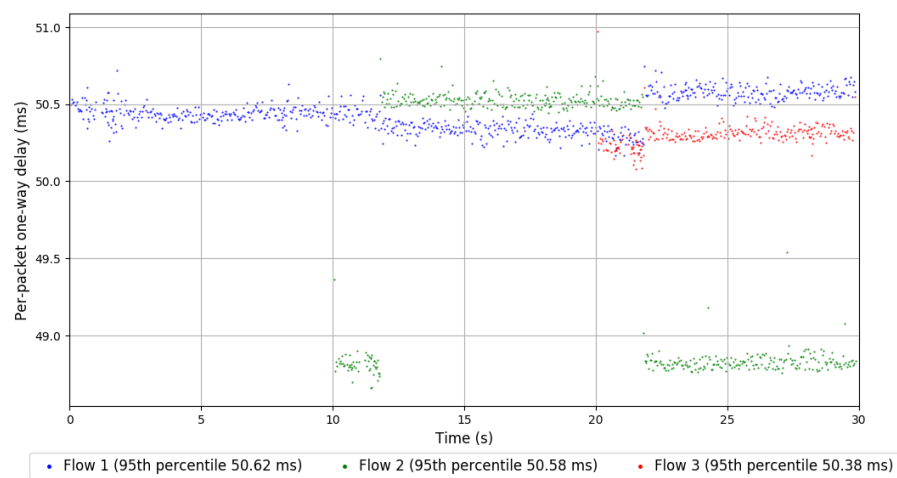
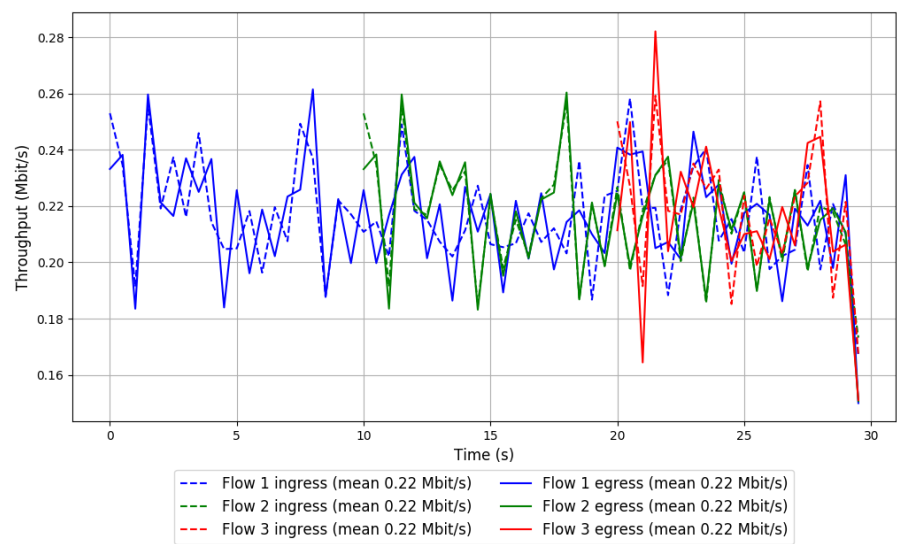


```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 16:25:30
End at: 2018-01-26 16:26:01

# Below is generated by plot.py at 2018-01-26 21:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.601 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.621 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.575 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.382 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-26 16:39:55

End at: 2018-01-26 16:40:25

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.570 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.505 ms

Loss rate: 0.63%

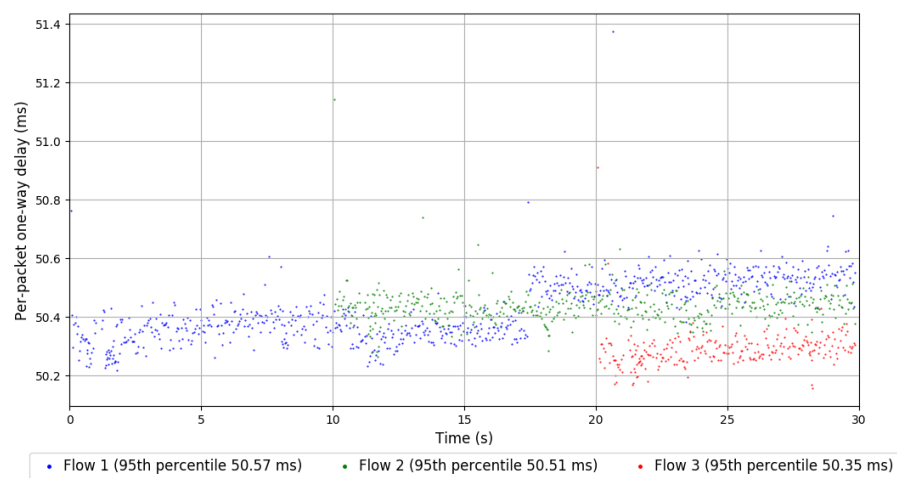
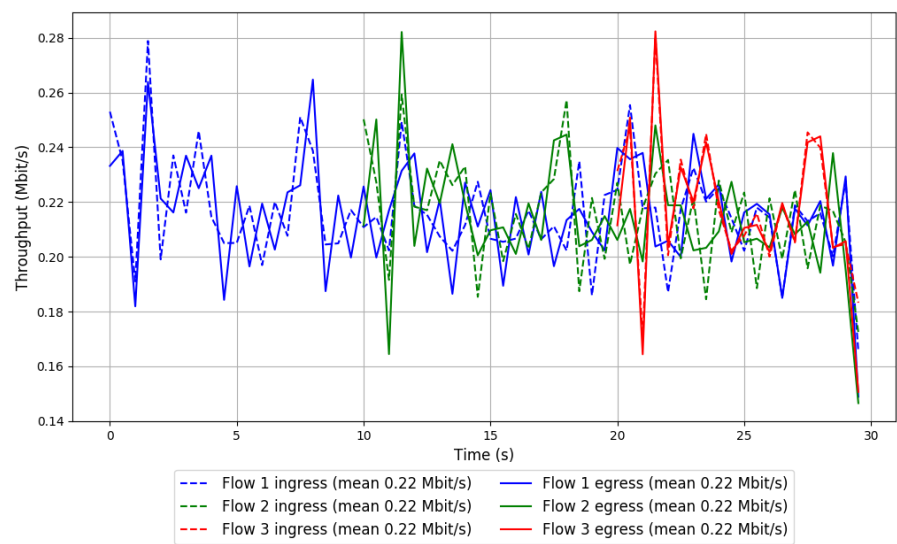
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.353 ms

Loss rate: 1.10%

Run 3: Report of SReAM — Data Link

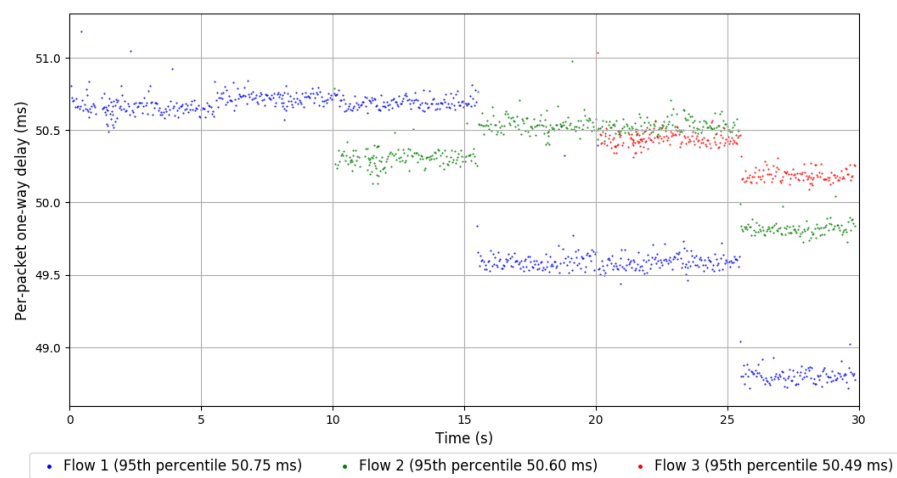
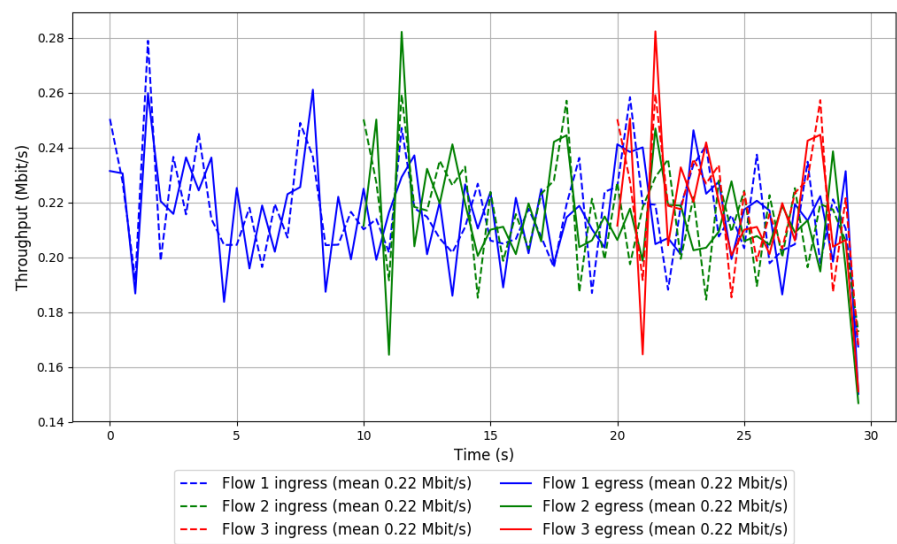


```
Run 4: Statistics of SReAM

Start at: 2018-01-26 16:54:27
End at: 2018-01-26 16:54:57

# Below is generated by plot.py at 2018-01-26 21:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.596 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.494 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-26 17:09:05

End at: 2018-01-26 17:09:35

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.915 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.692 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.42%

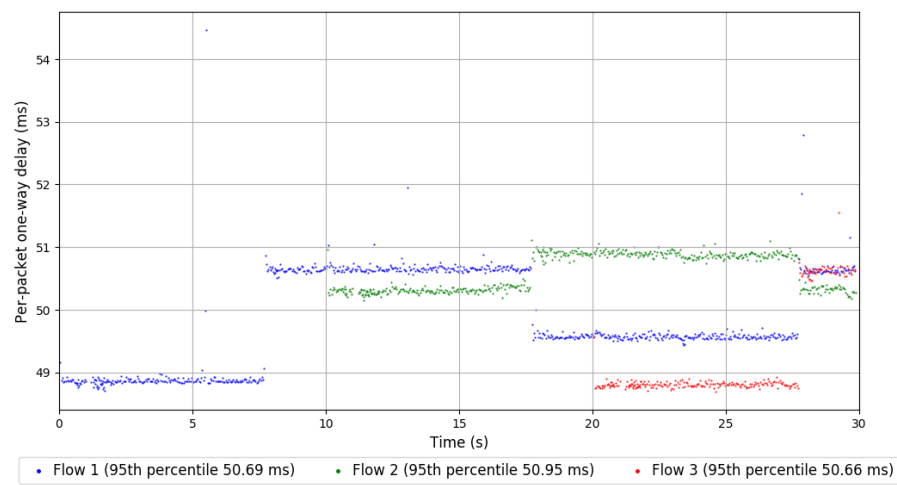
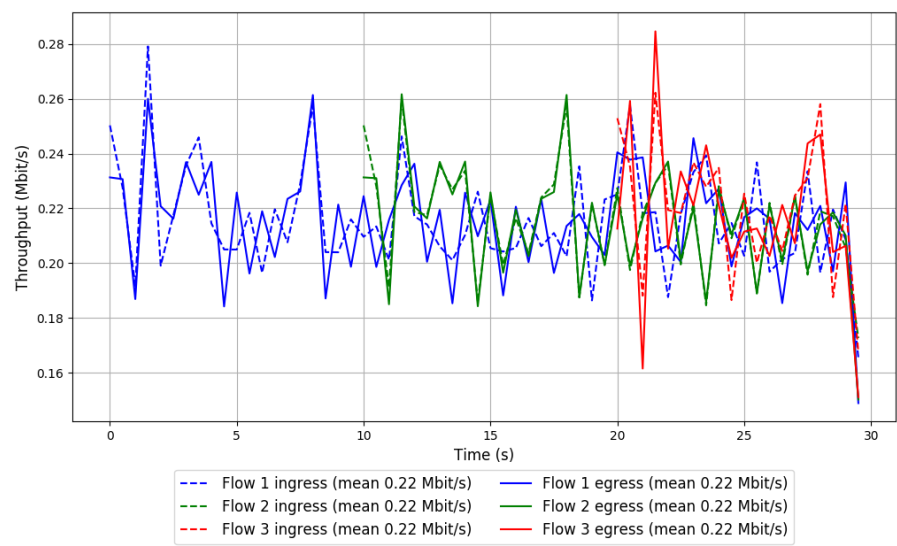
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.658 ms

Loss rate: 1.10%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-26 17:23:31

End at: 2018-01-26 17:24:01

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.664 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.514 ms

Loss rate: 0.42%

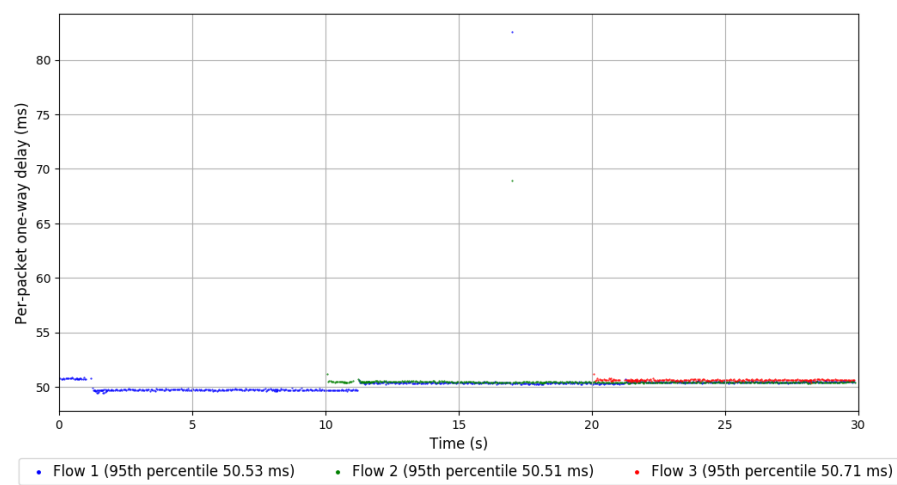
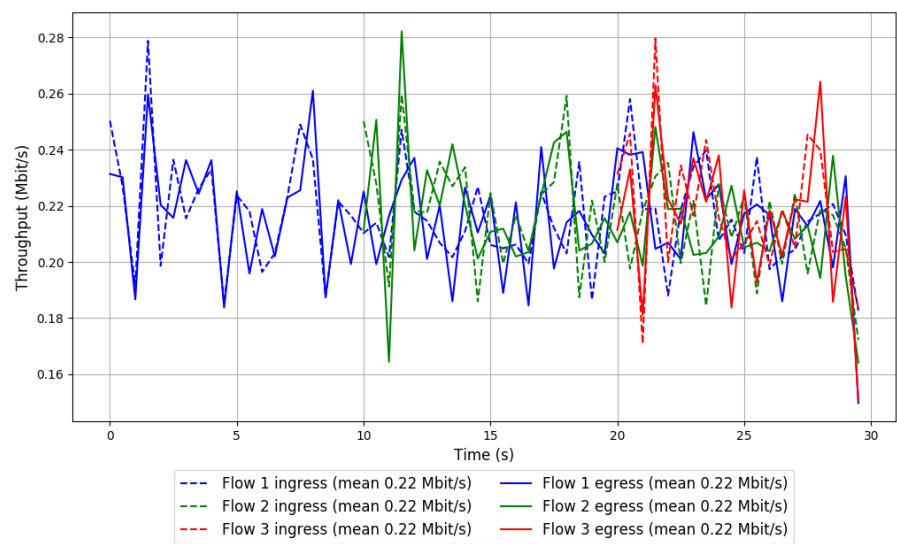
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 1.11%

Run 6: Report of SReAM — Data Link

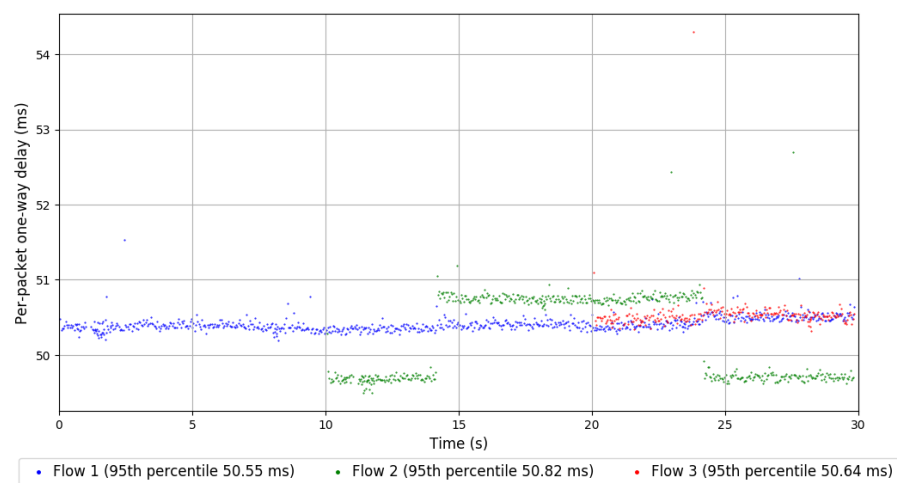
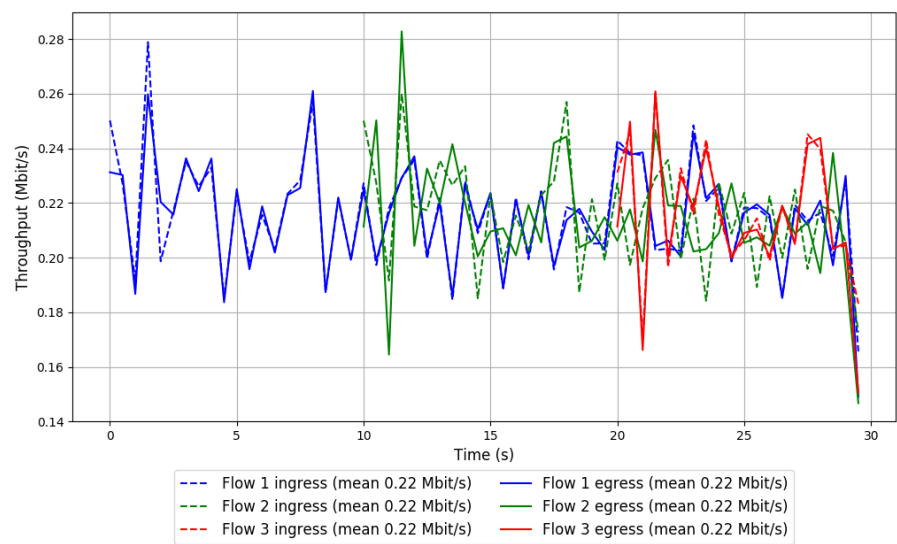


```
Run 7: Statistics of SReAM

Start at: 2018-01-26 17:37:58
End at: 2018-01-26 17:38:28

# Below is generated by plot.py at 2018-01-26 21:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.782 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.820 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.638 ms
Loss rate: 1.11%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-26 17:52:06

End at: 2018-01-26 17:52:36

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.860 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.896 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.63%

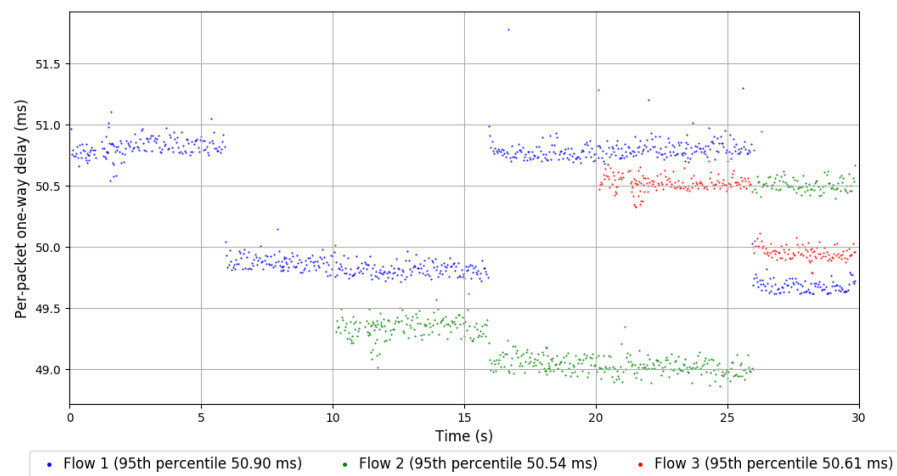
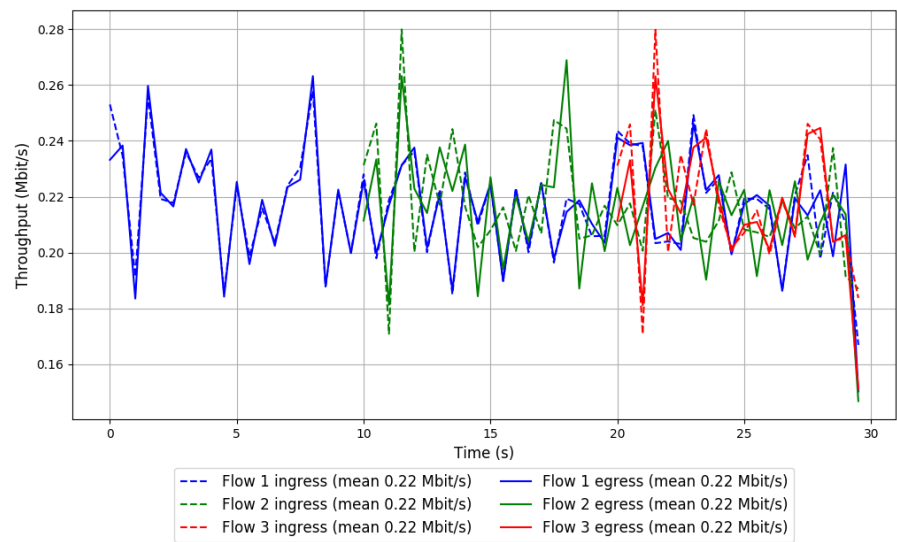
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.614 ms

Loss rate: 1.11%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-26 18:06:37

End at: 2018-01-26 18:07:07

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.761 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.440 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.775 ms

Loss rate: 0.63%

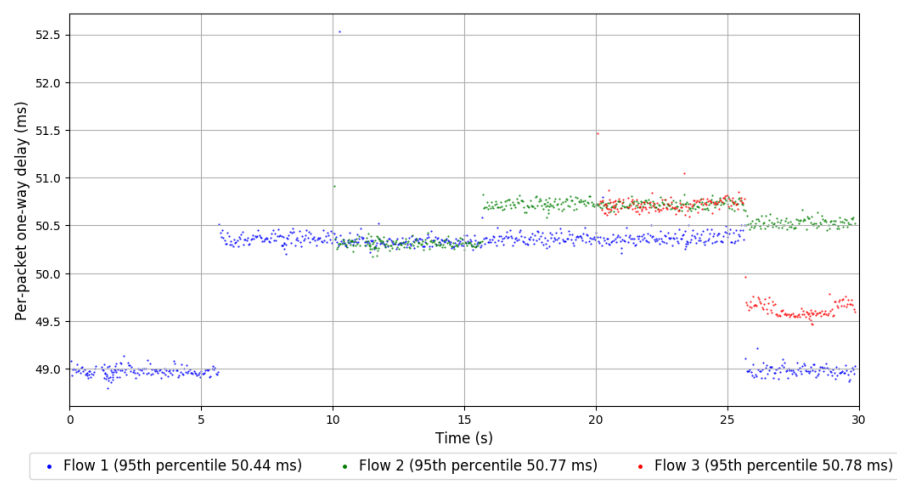
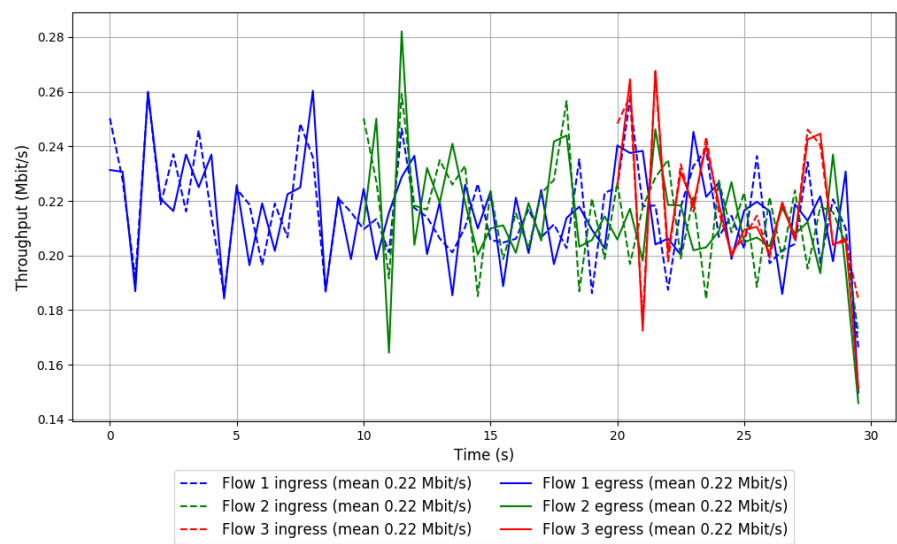
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.785 ms

Loss rate: 1.10%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-26 18:20:59

End at: 2018-01-26 18:21:29

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.890 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.923 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.853 ms

Loss rate: 0.63%

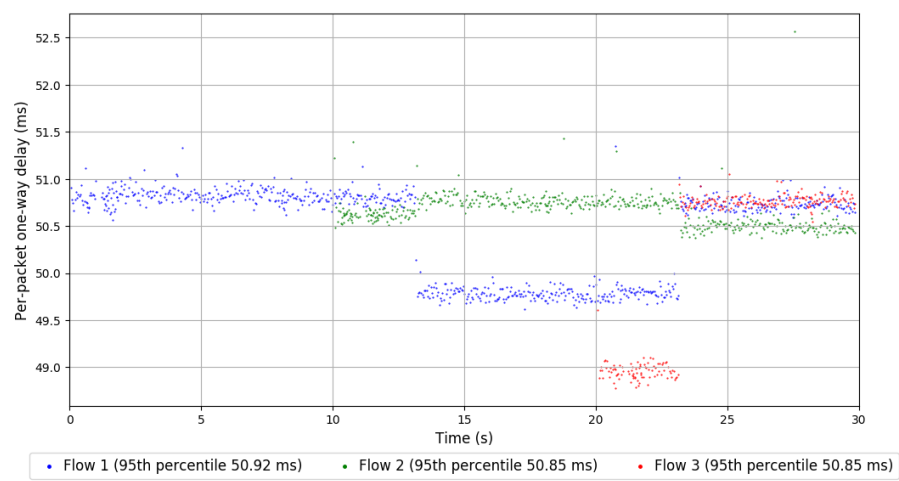
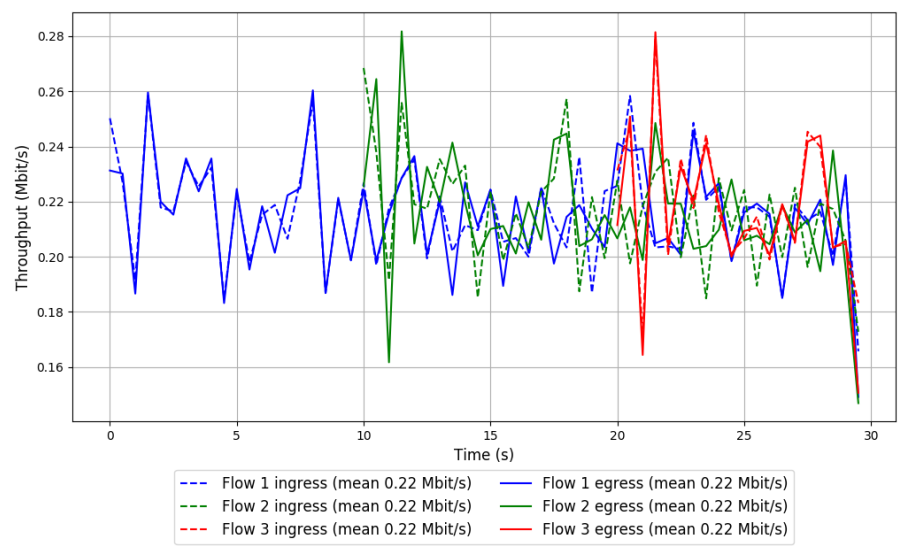
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.853 ms

Loss rate: 1.11%

Run 10: Report of SReAM — Data Link

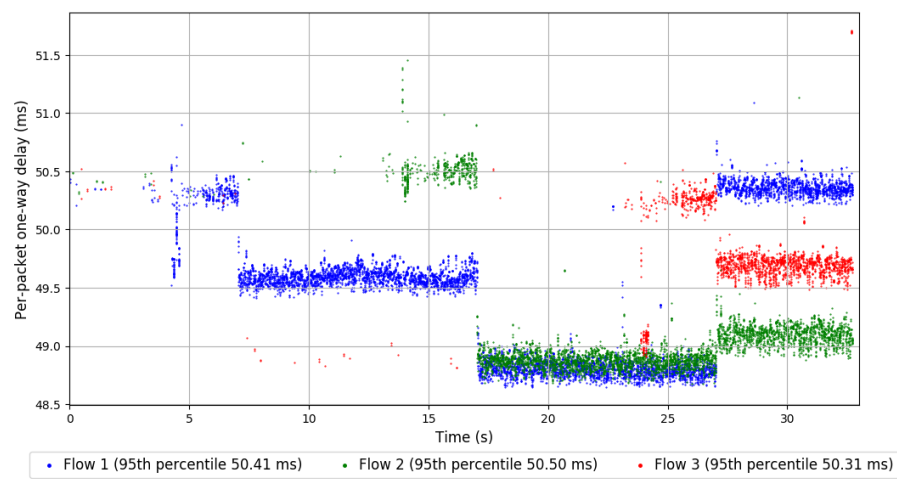
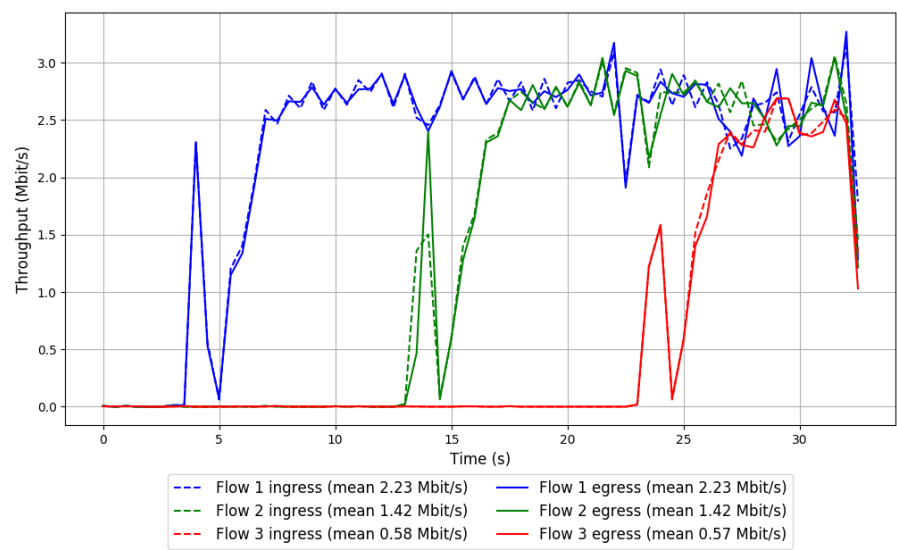


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 16:20:28
End at: 2018-01-26 16:20:58

# Below is generated by plot.py at 2018-01-26 21:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 50.420 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.405 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 50.307 ms
Loss rate: 1.58%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 16:34:52

End at: 2018-01-26 16:35:22

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.582 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.392 ms

Loss rate: 0.74%

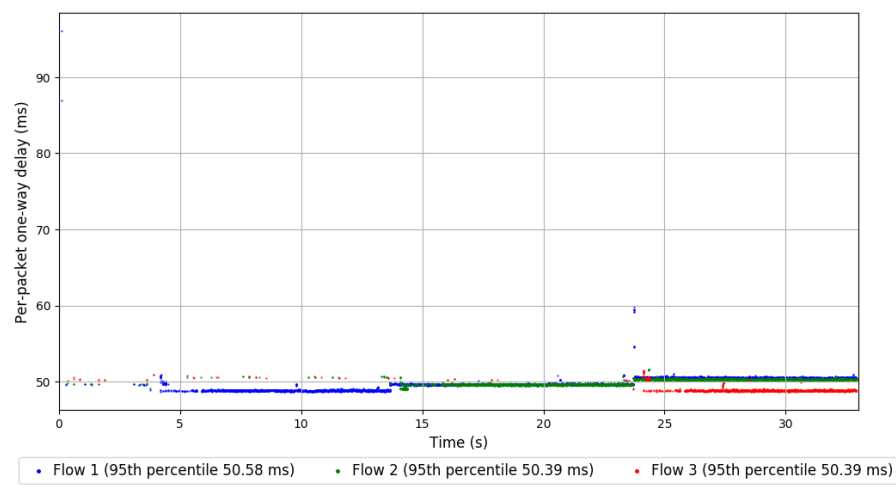
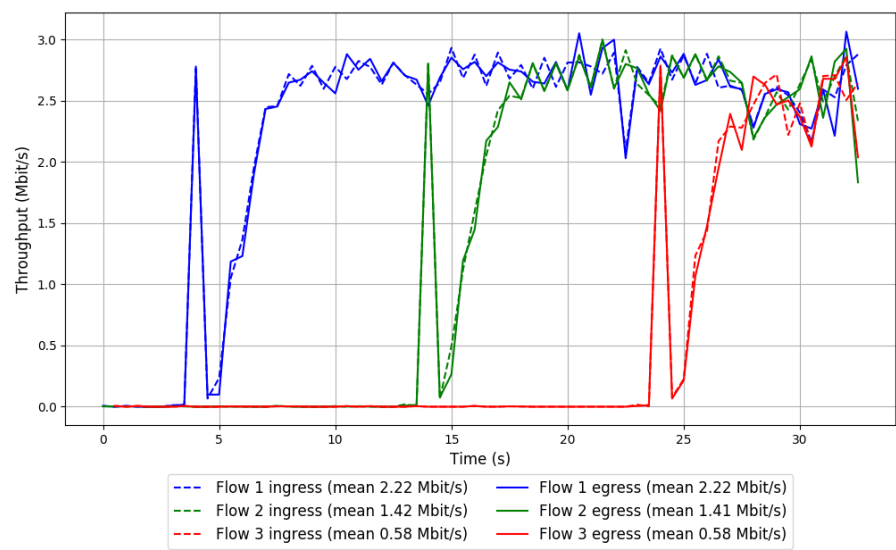
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.393 ms

Loss rate: 1.66%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 16:49:20

End at: 2018-01-26 16:49:50

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 50.949 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.51%

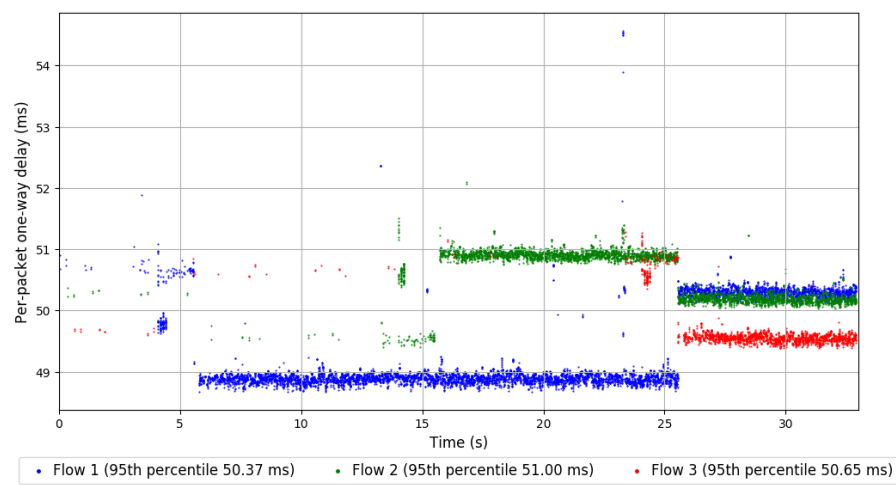
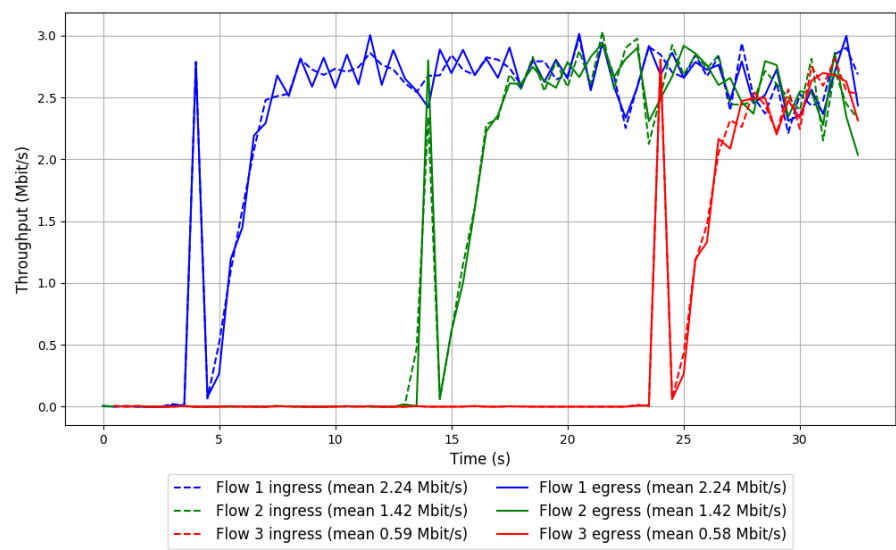
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.645 ms

Loss rate: 1.32%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 17:03:52

End at: 2018-01-26 17:04:22

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 50.314 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.324 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.301 ms

Loss rate: 0.60%

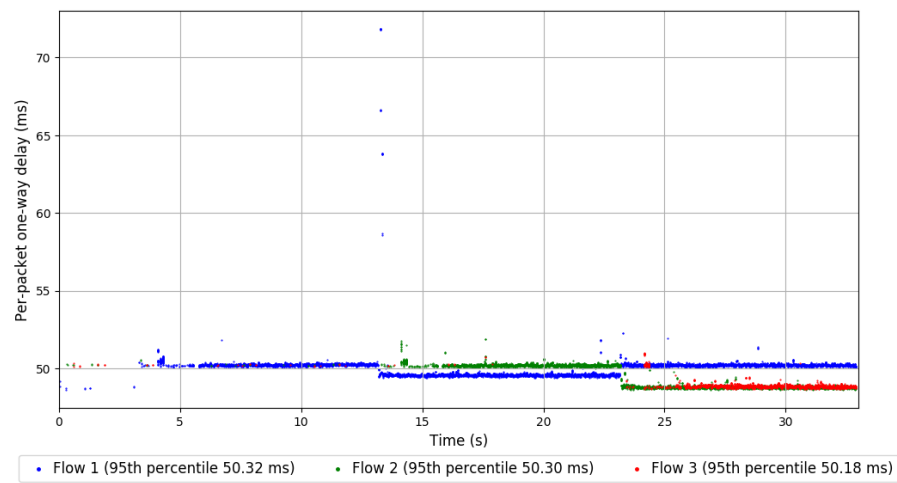
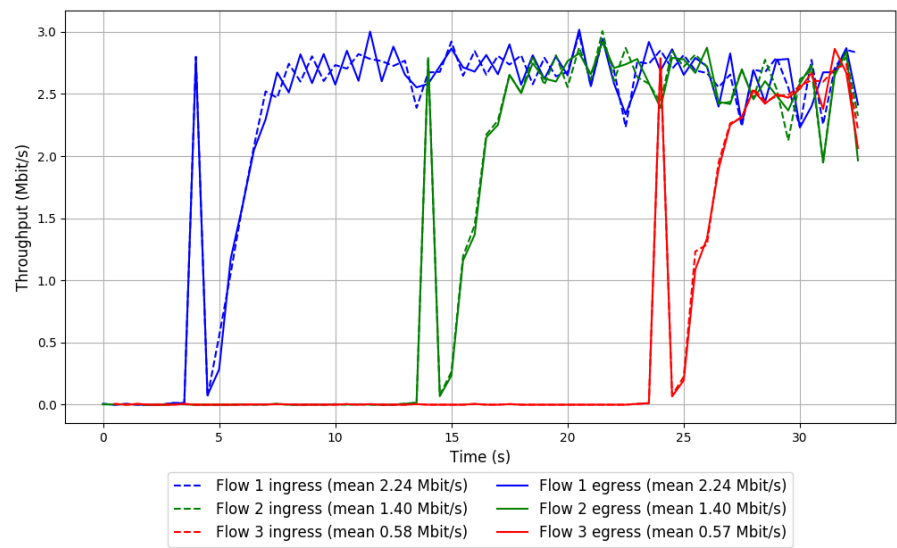
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.178 ms

Loss rate: 1.26%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 17:18:19

End at: 2018-01-26 17:18:49

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.750 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.776 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.381 ms

Loss rate: 0.72%

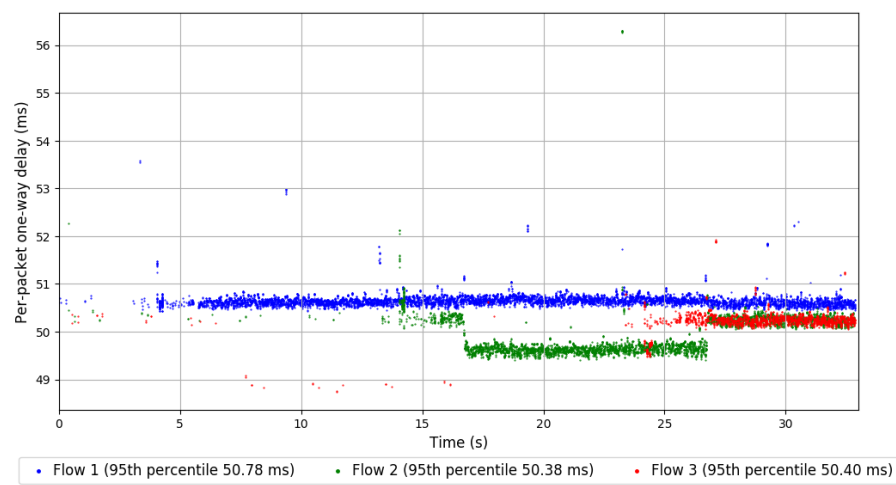
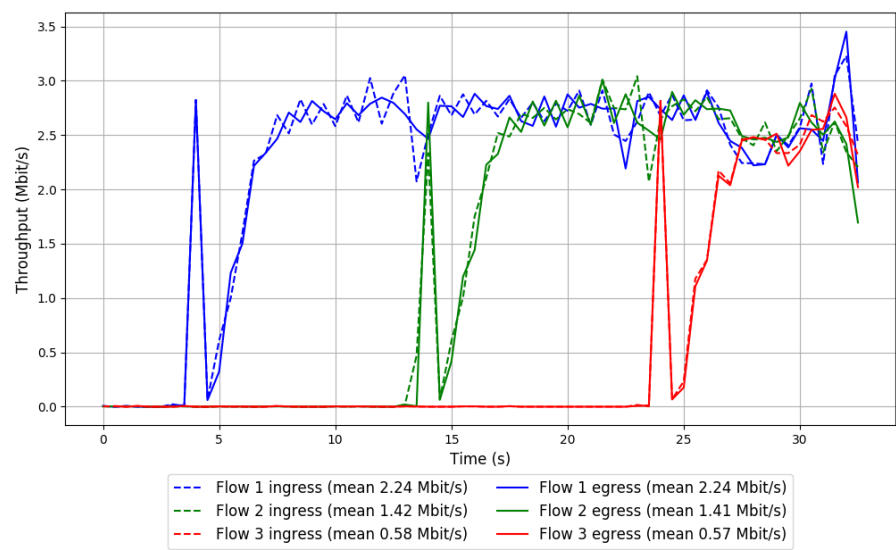
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.402 ms

Loss rate: 1.35%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 17:32:52

End at: 2018-01-26 17:33:22

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.767 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 49.003 ms

Loss rate: 0.65%

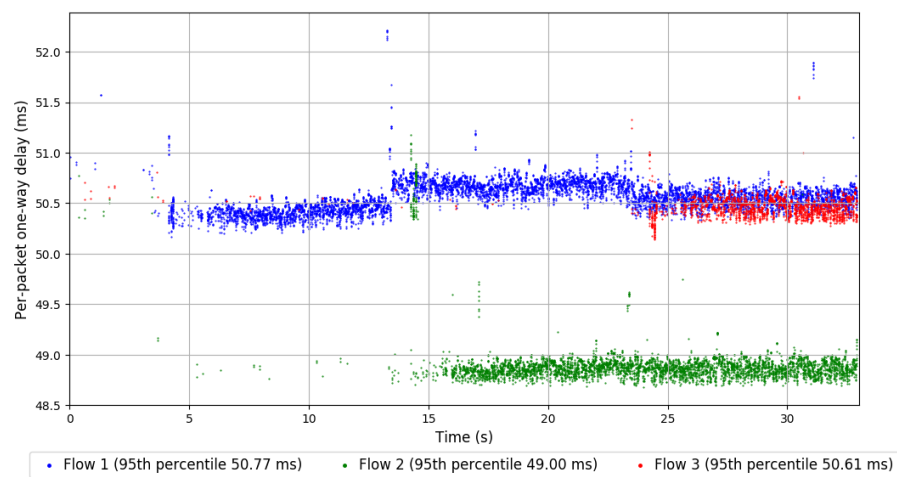
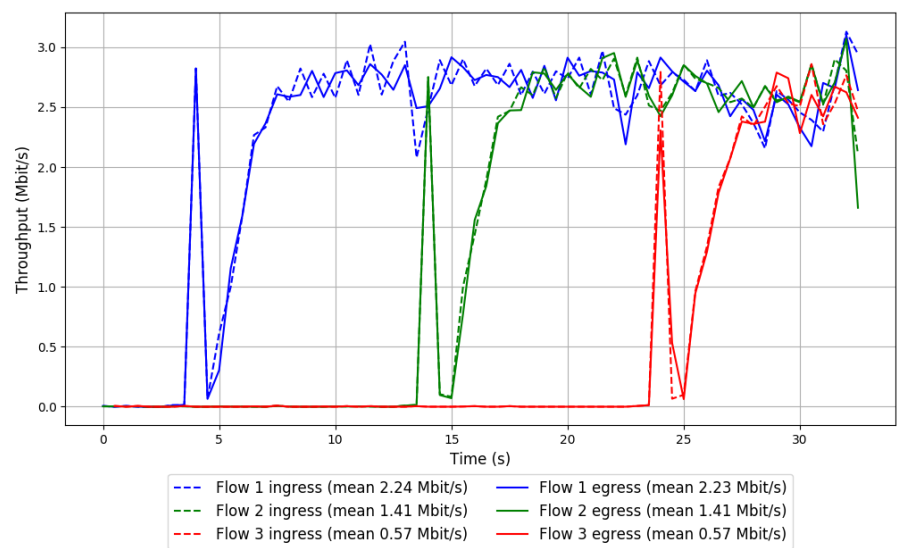
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.606 ms

Loss rate: 1.27%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 17:47:05

End at: 2018-01-26 17:47:35

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 51.066 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 50.639 ms

Loss rate: 0.42%

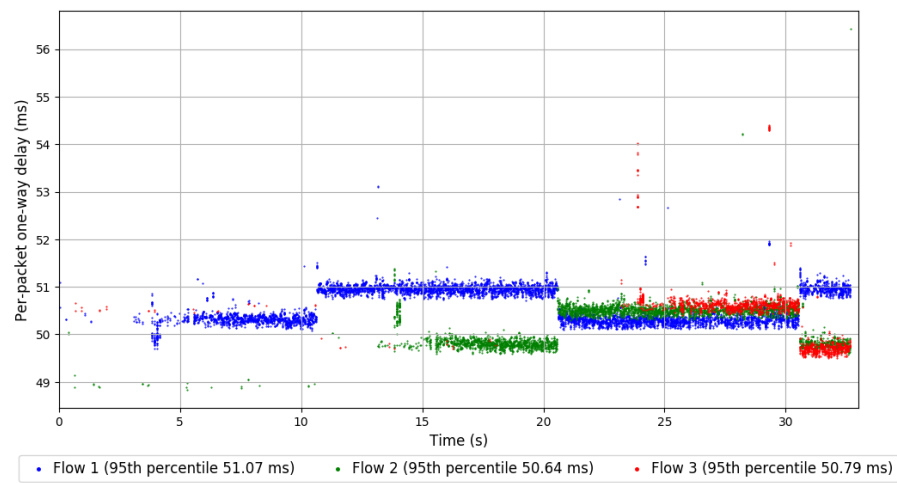
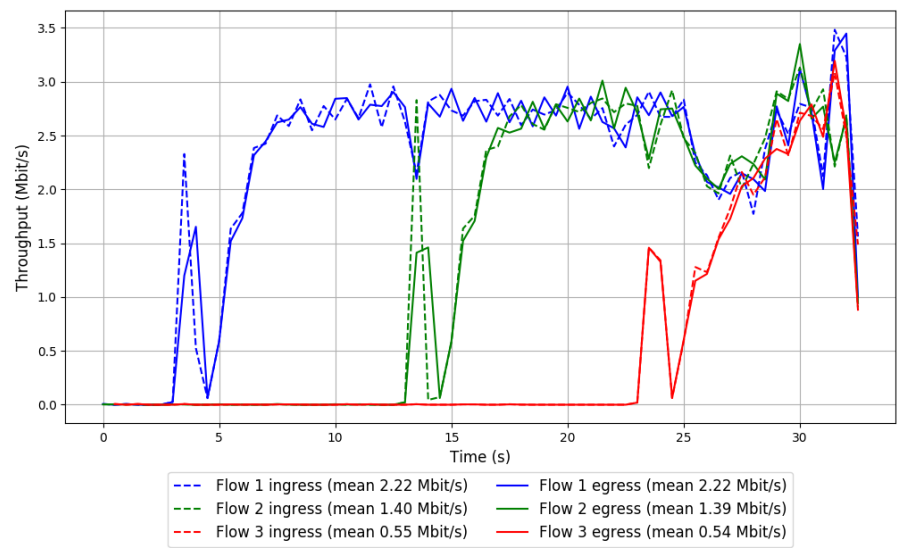
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 2.25%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 18:01:27

End at: 2018-01-26 18:01:57

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.770 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 50.432 ms

Loss rate: 0.58%

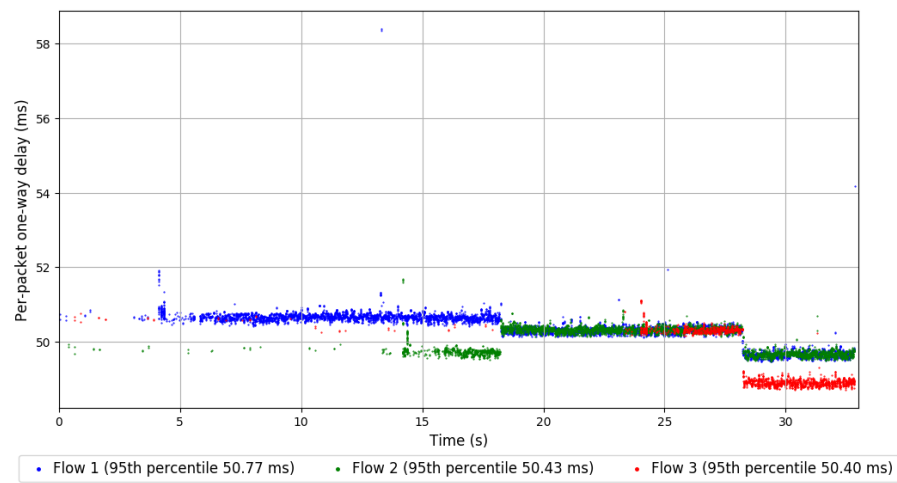
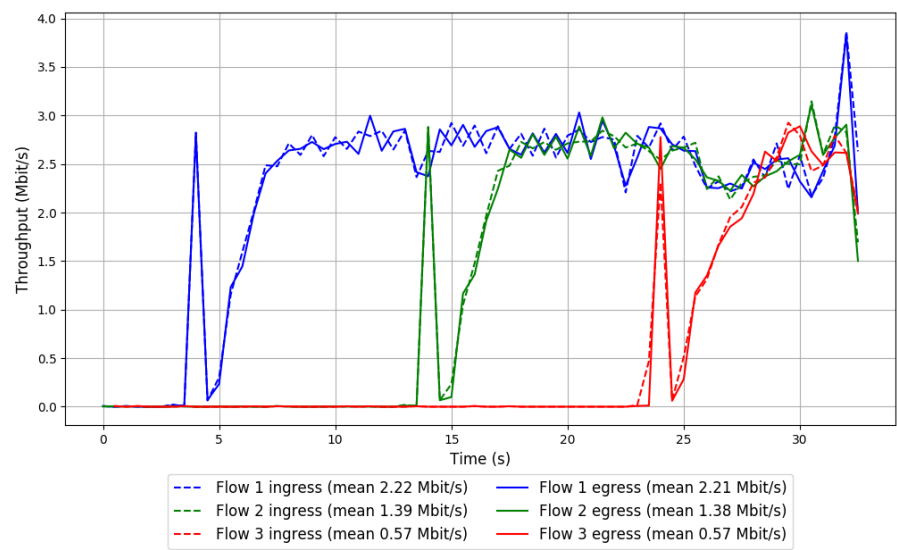
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.402 ms

Loss rate: 0.78%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 18:15:55

End at: 2018-01-26 18:16:25

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 50.827 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.850 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 49.758 ms

Loss rate: 0.31%

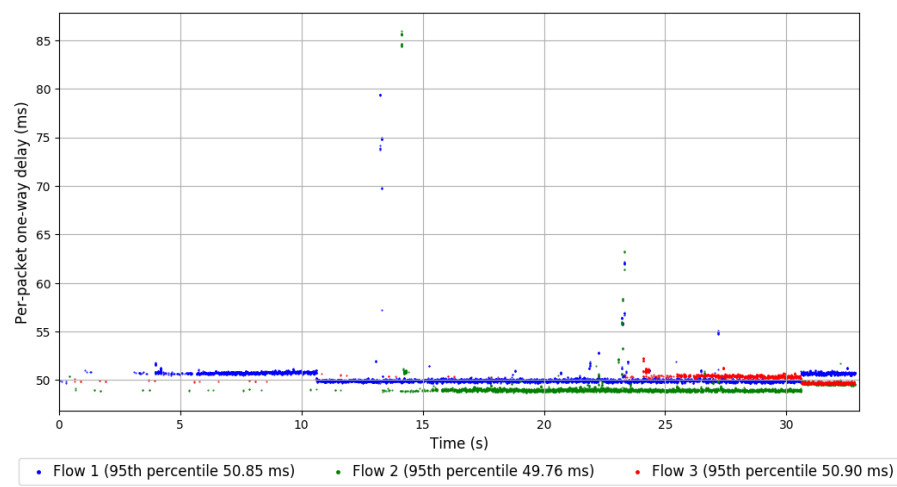
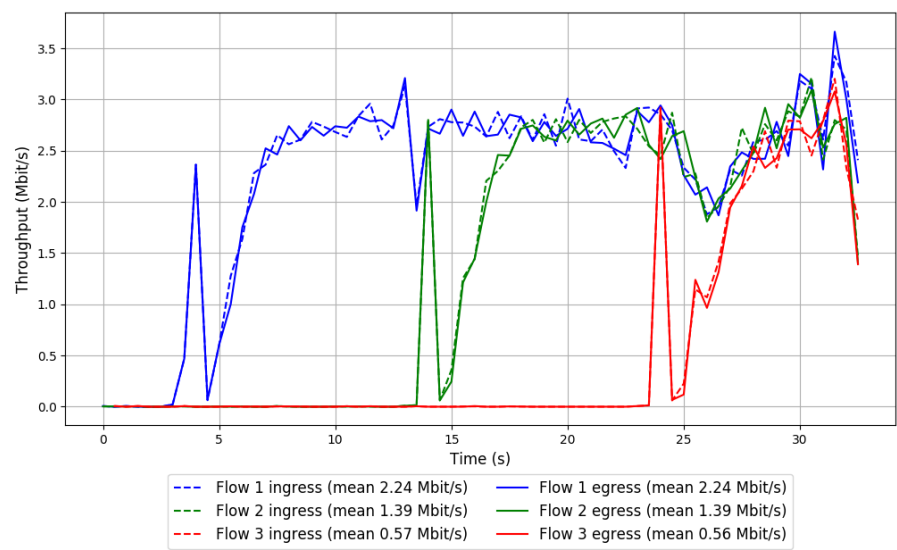
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.899 ms

Loss rate: 1.66%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 18:30:16

End at: 2018-01-26 18:30:46

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 50.820 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 49.873 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.59%

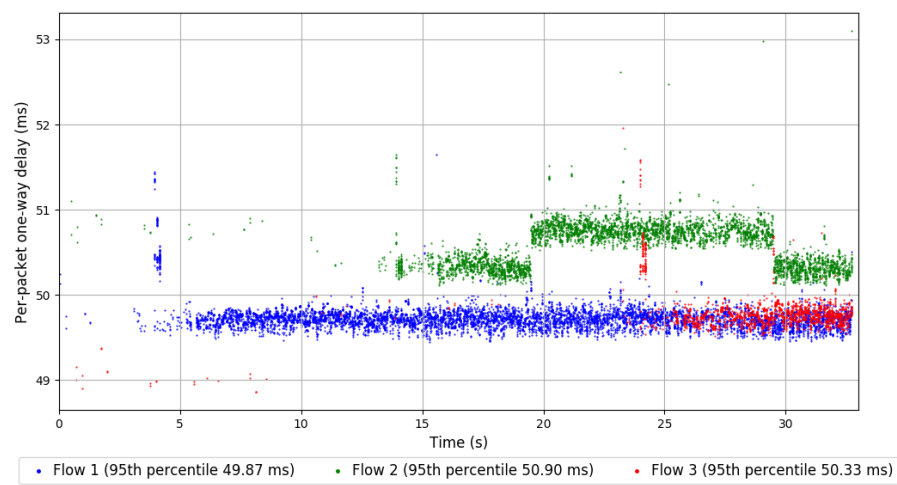
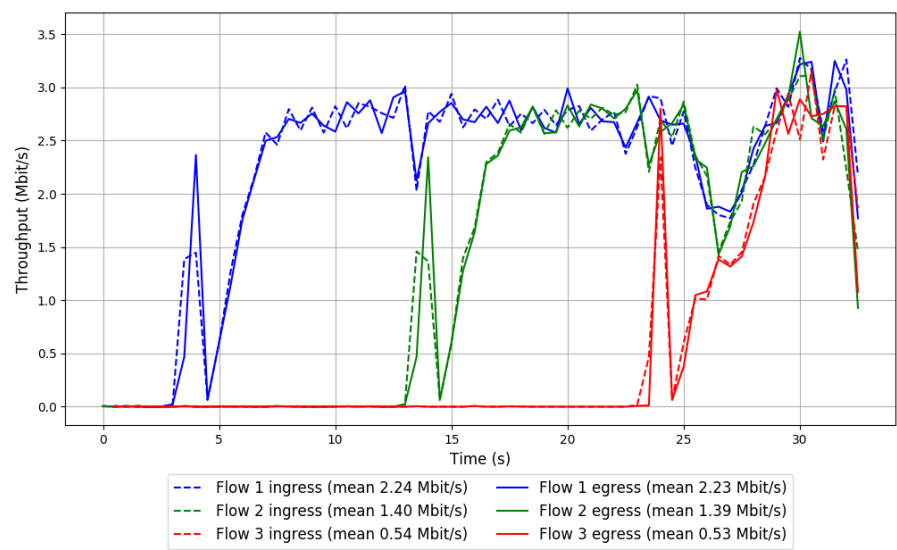
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 2.25%

Run 10: Report of WebRTC media — Data Link

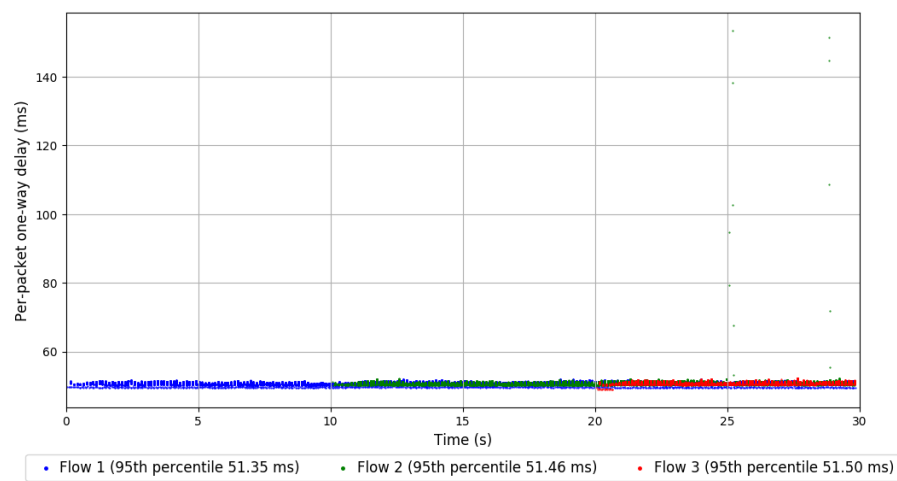
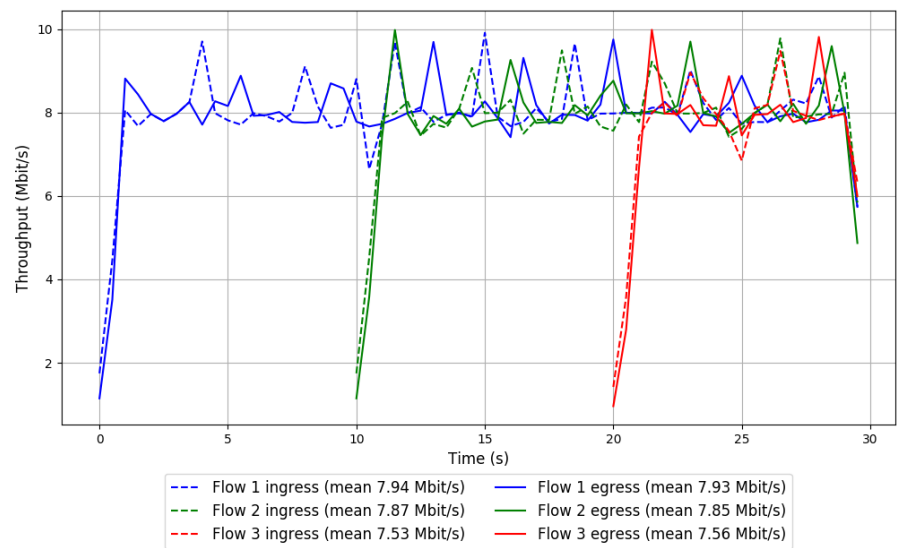


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 16:23:02
End at: 2018-01-26 16:23:32

# Below is generated by plot.py at 2018-01-26 21:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.62 Mbit/s
95th percentile per-packet one-way delay: 51.413 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.349 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 51.458 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 51.501 ms
Loss rate: 0.22%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 16:37:28

End at: 2018-01-26 16:37:58

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 50.999 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.171 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 50.824 ms

Loss rate: 0.63%

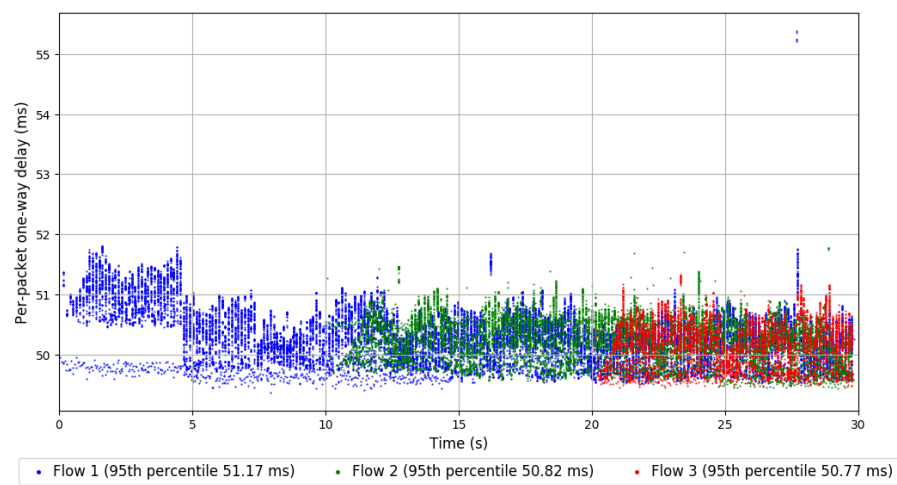
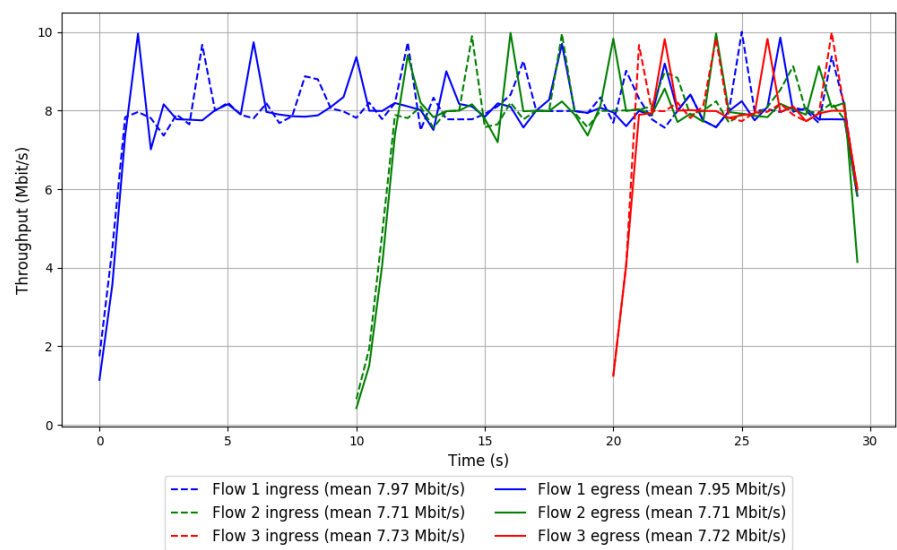
-- Flow 3:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 1.31%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 16:51:58

End at: 2018-01-26 16:52:28

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 51.279 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 51.370 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 0.00%

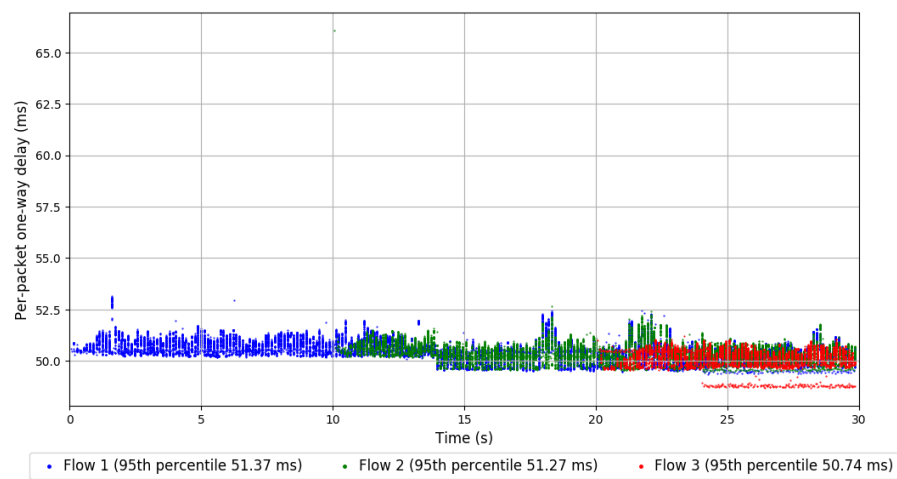
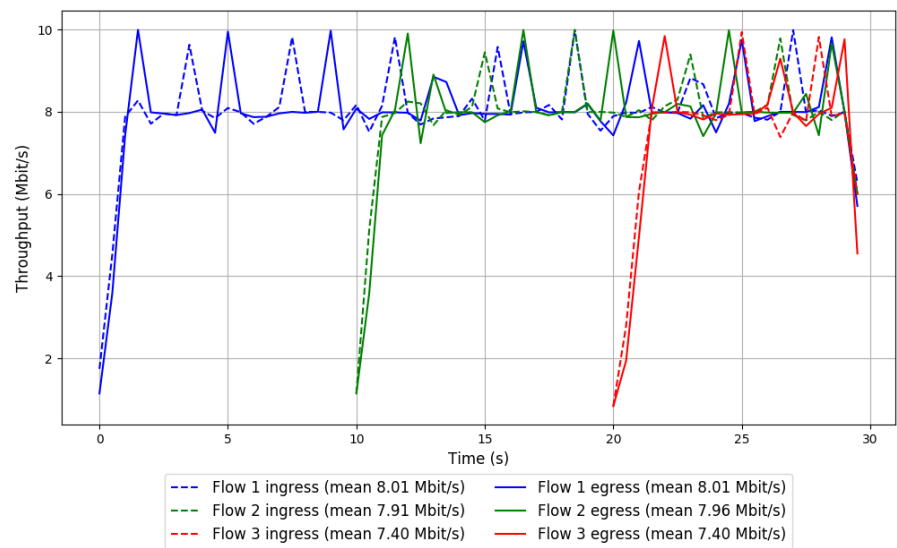
-- Flow 3:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 50.738 ms

Loss rate: 0.99%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 17:06:34

End at: 2018-01-26 17:07:04

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 51.592 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.593 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.497 ms

Loss rate: 0.00%

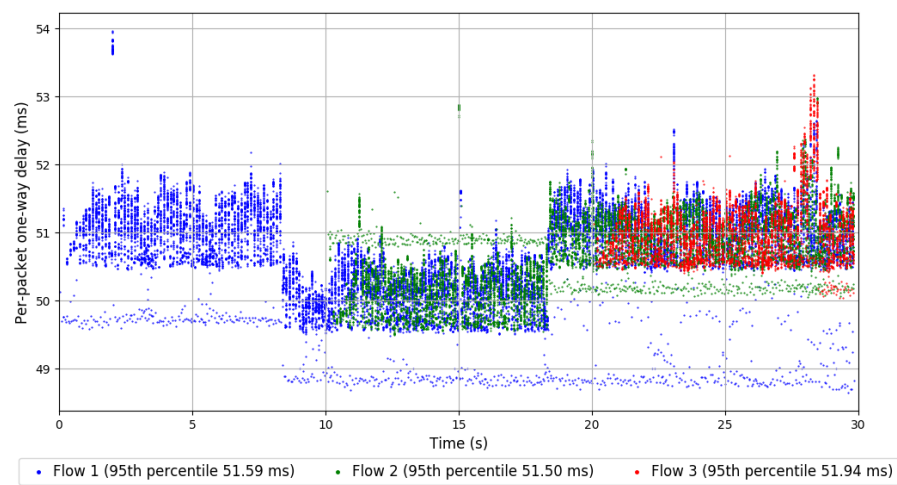
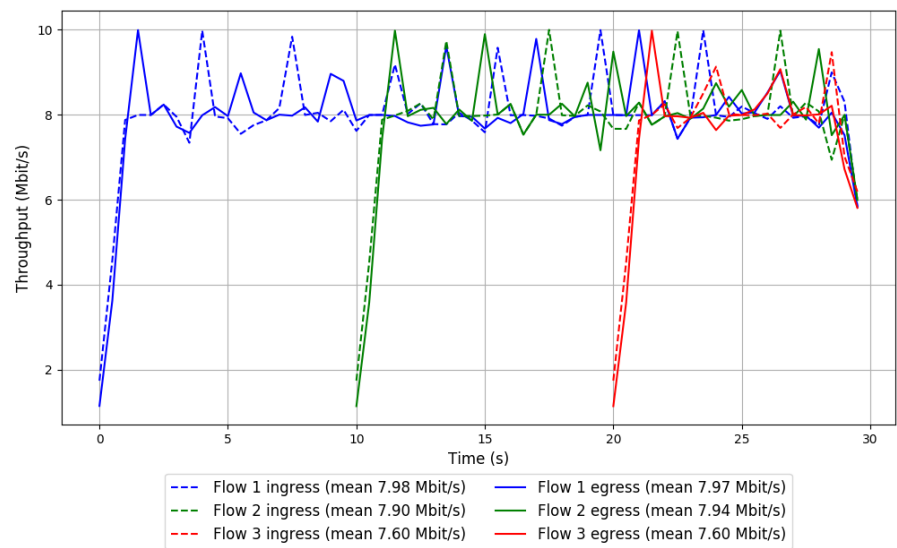
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 1.30%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 17:20:56

End at: 2018-01-26 17:21:26

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 51.661 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.706 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.12%

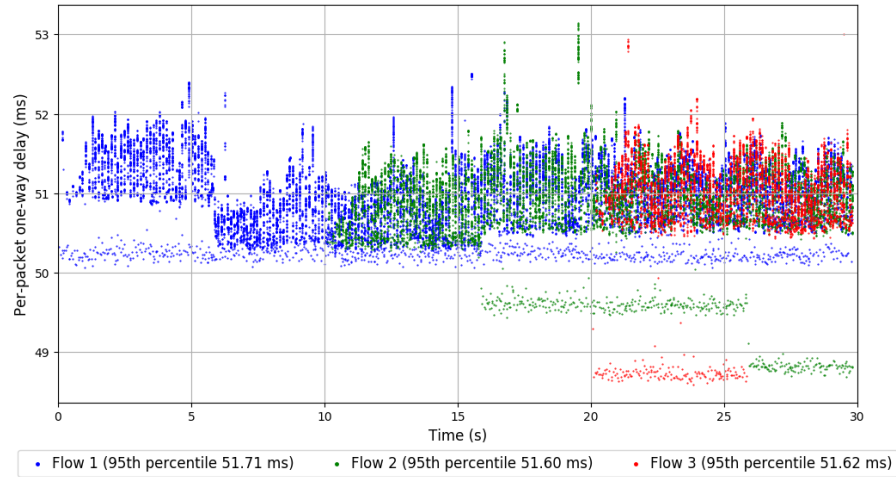
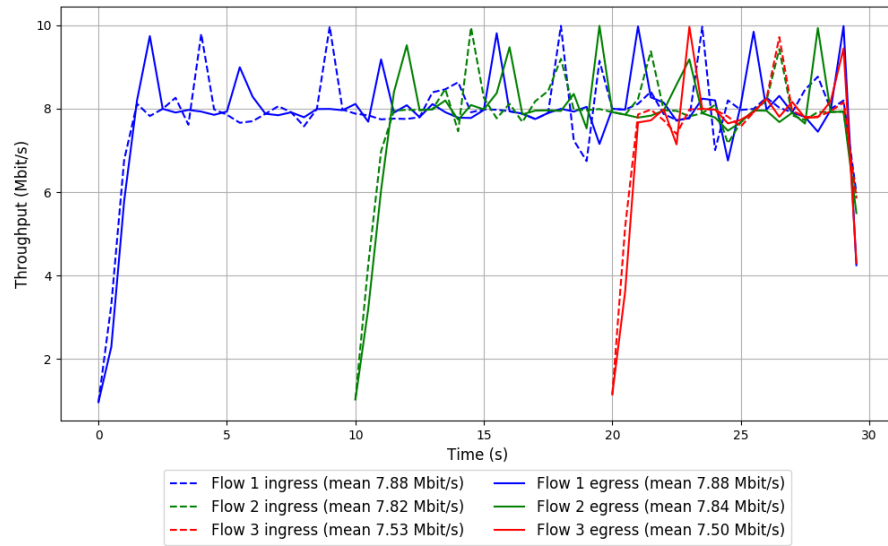
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 51.625 ms

Loss rate: 1.18%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 17:35:29

End at: 2018-01-26 17:35:59

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 51.604 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.579 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.661 ms

Loss rate: 0.64%

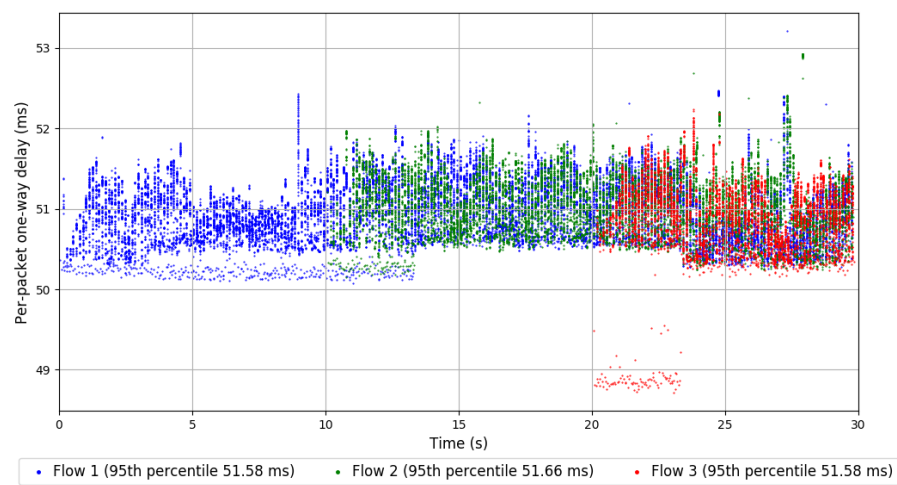
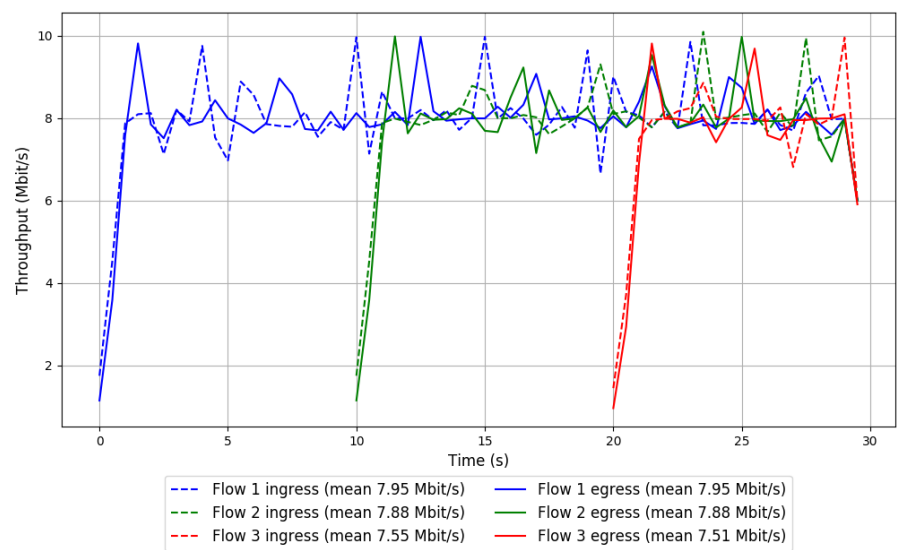
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 51.576 ms

Loss rate: 1.31%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 17:49:38

End at: 2018-01-26 17:50:08

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 51.478 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.399 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.555 ms

Loss rate: 0.61%

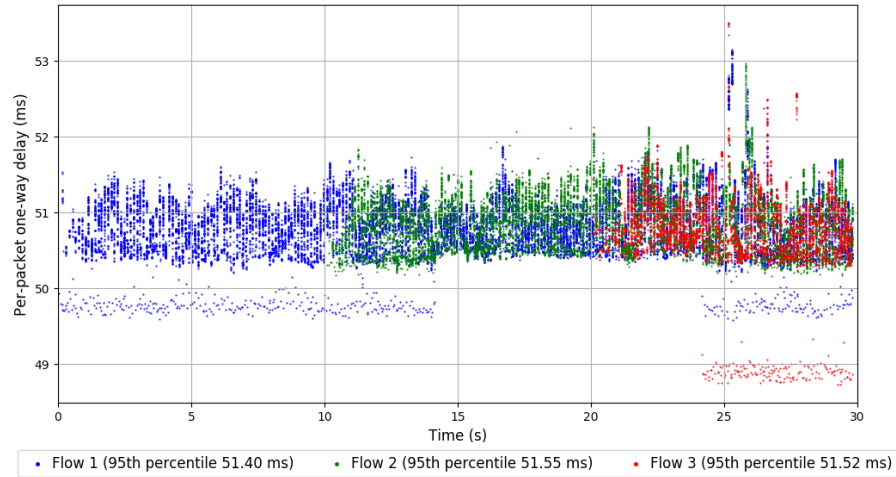
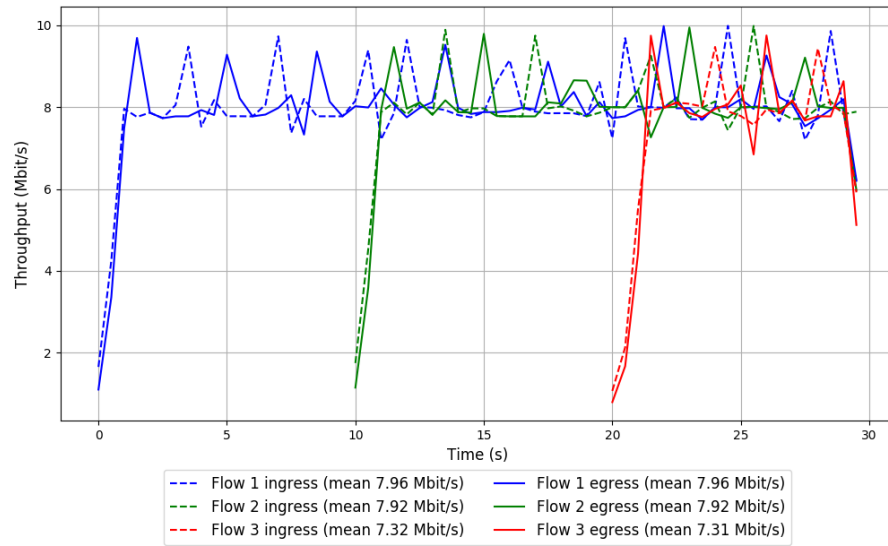
-- Flow 3:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 51.519 ms

Loss rate: 1.37%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 18:04:05

End at: 2018-01-26 18:04:35

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 51.179 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.223 ms

Loss rate: 0.64%

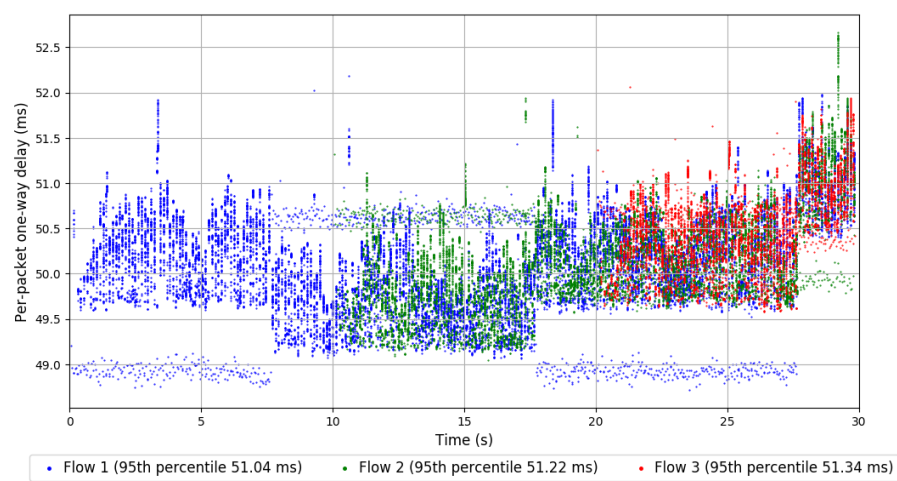
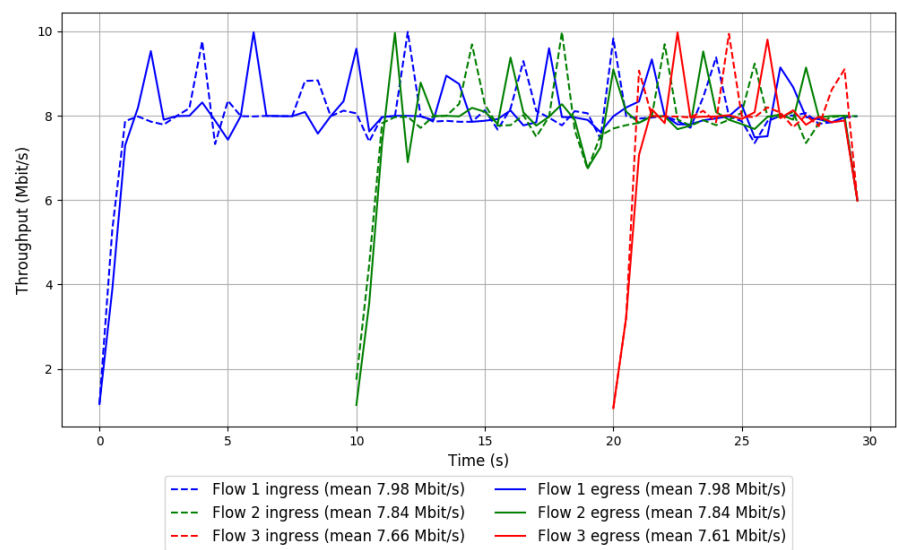
-- Flow 3:

Average throughput: 7.61 Mbit/s

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

Loss rate: 1.33%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 18:18:30

End at: 2018-01-26 18:19:00

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 51.942 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.956 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 52.026 ms

Loss rate: 1.26%

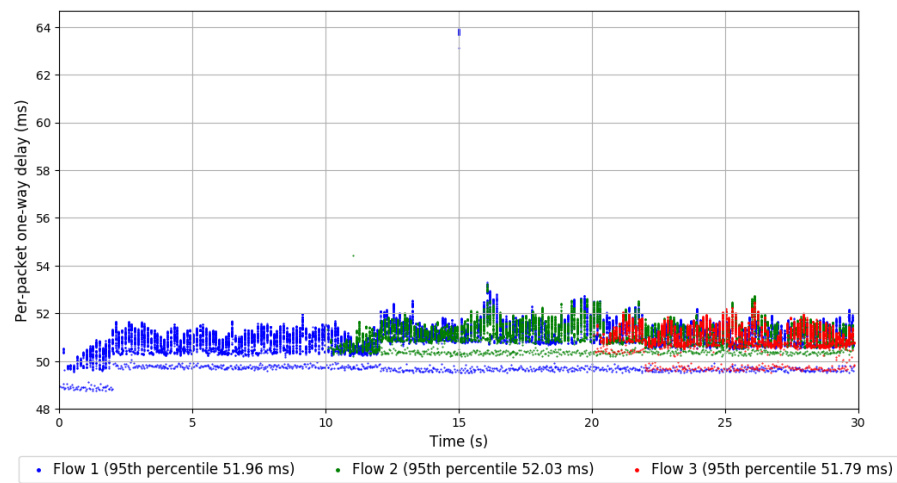
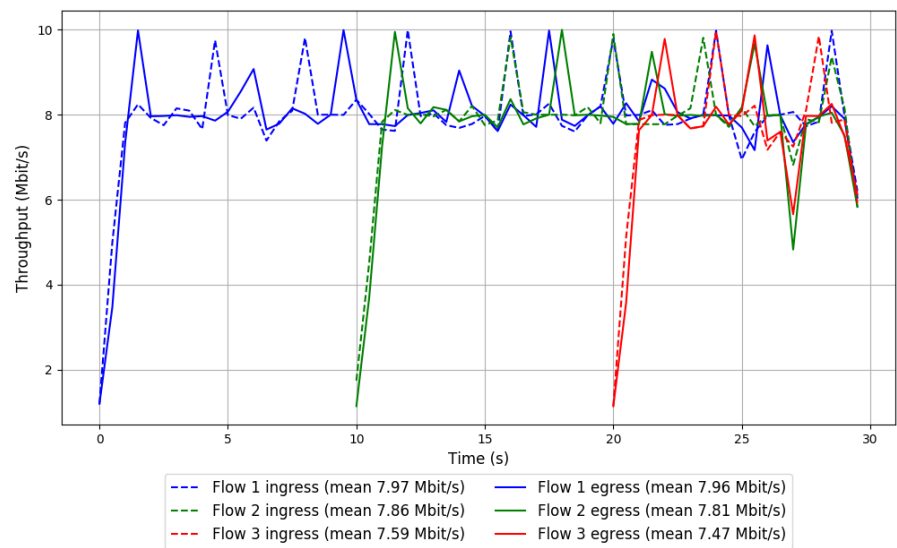
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 51.789 ms

Loss rate: 2.25%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 18:32:52

End at: 2018-01-26 18:33:22

Below is generated by plot.py at 2018-01-26 21:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 51.724 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.843 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 51.369 ms

Loss rate: 0.69%

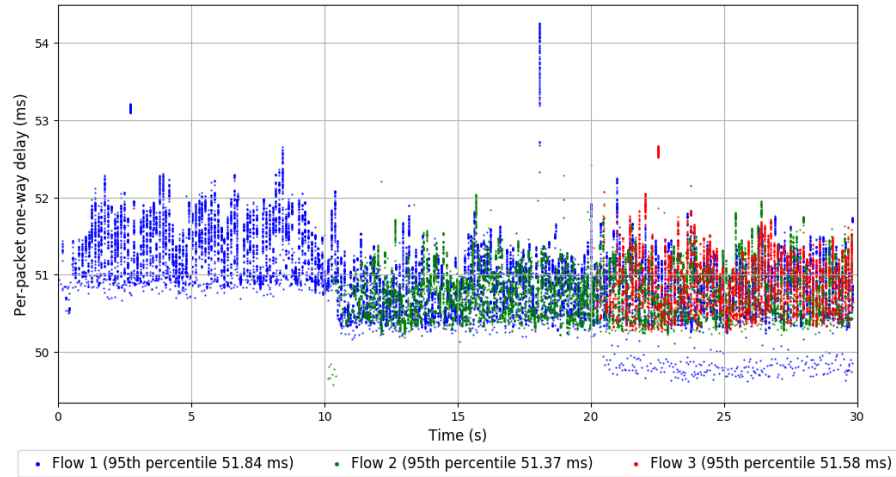
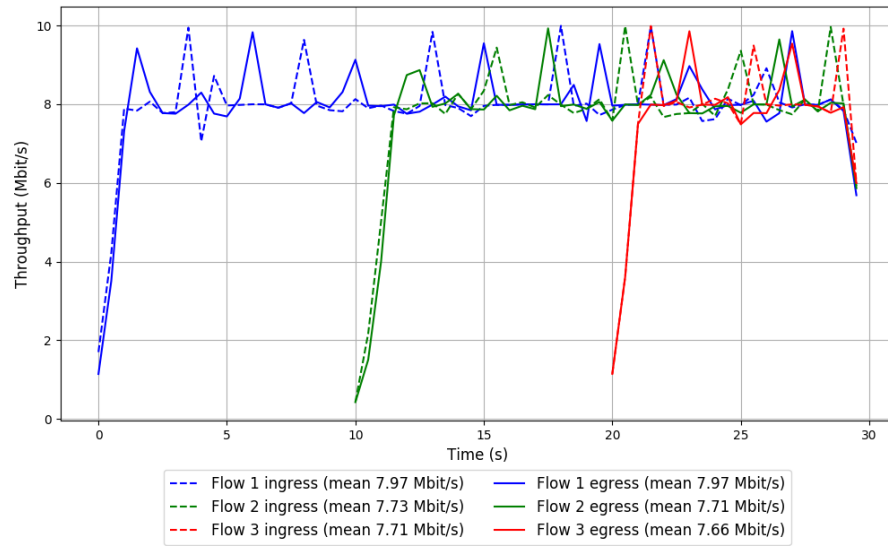
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 51.583 ms

Loss rate: 1.32%

Run 10: Report of Sprout — Data Link

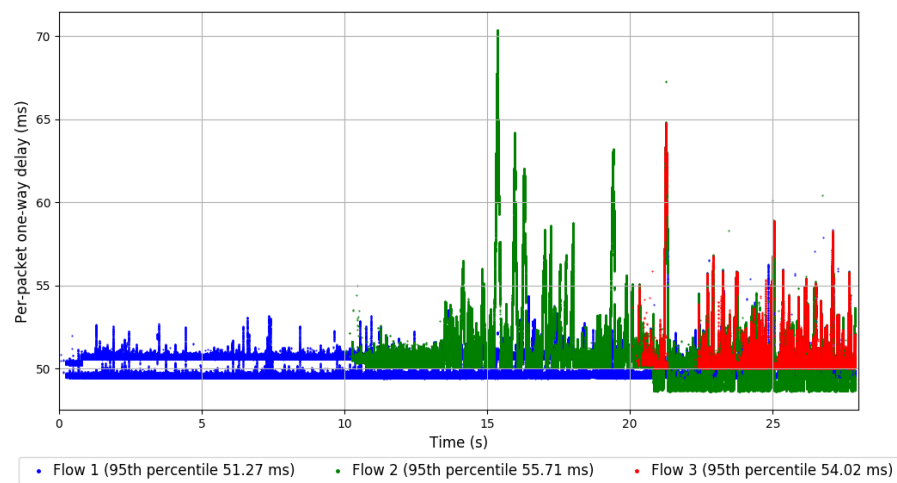
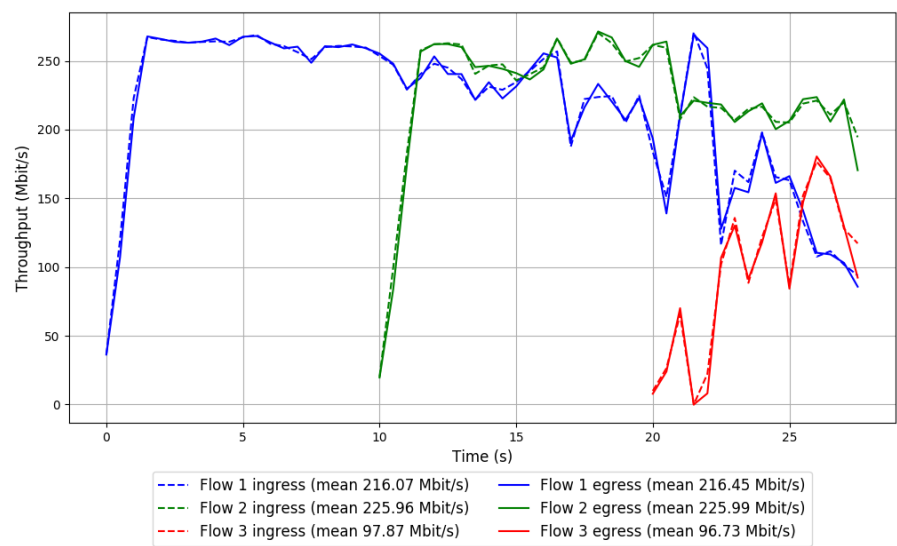


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 16:17:40
End at: 2018-01-26 16:18:10

# Below is generated by plot.py at 2018-01-26 21:42:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.25 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 216.45 Mbit/s
95th percentile per-packet one-way delay: 51.268 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 225.99 Mbit/s
95th percentile per-packet one-way delay: 55.712 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 96.73 Mbit/s
95th percentile per-packet one-way delay: 54.025 ms
Loss rate: 2.41%
```


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

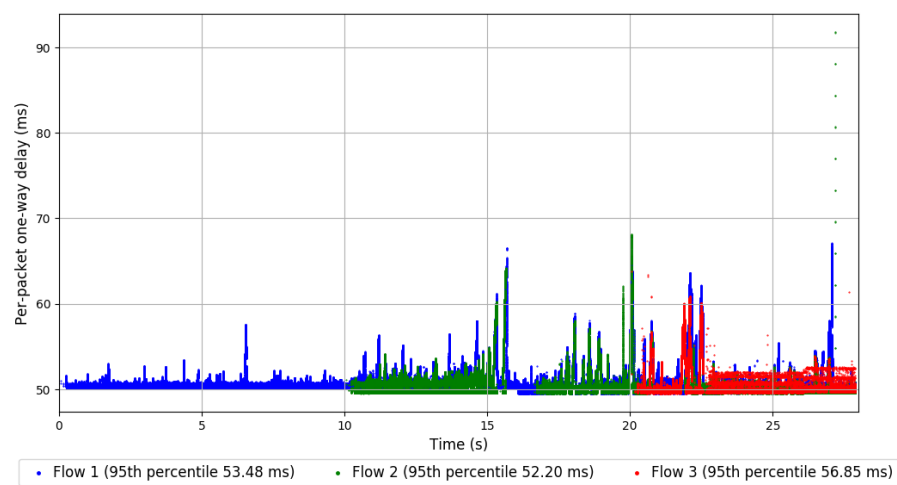
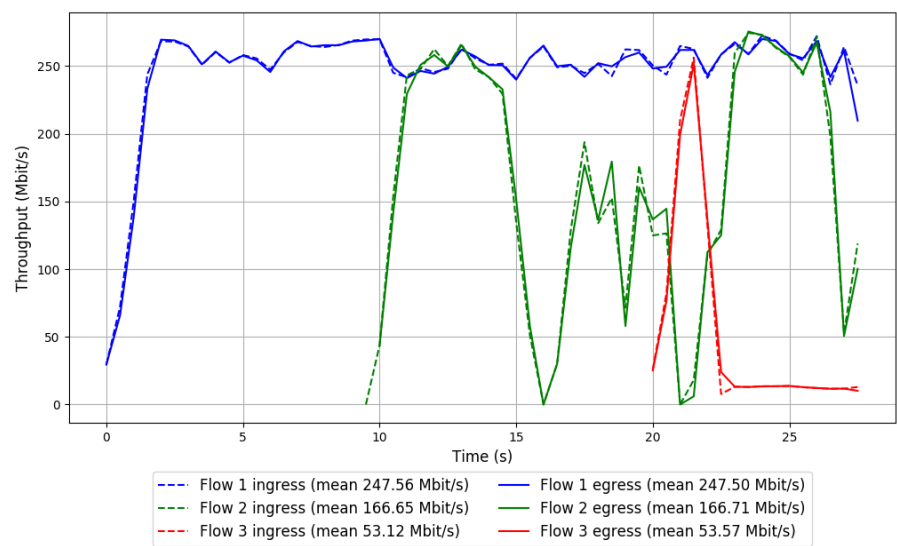


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 16:32:04
End at: 2018-01-26 16:32:34

# Below is generated by plot.py at 2018-01-26 21:42:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.41 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 247.50 Mbit/s
95th percentile per-packet one-way delay: 53.484 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 166.71 Mbit/s
95th percentile per-packet one-way delay: 52.201 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 56.850 ms
Loss rate: 0.47%
```

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

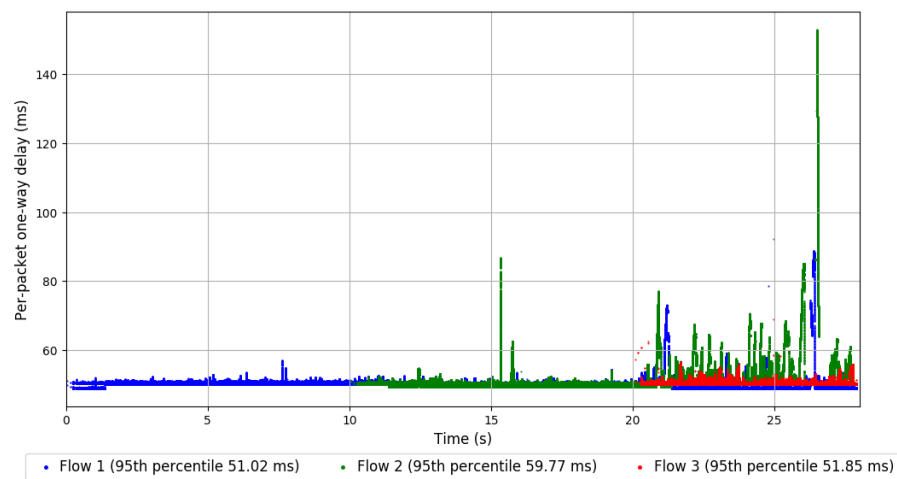
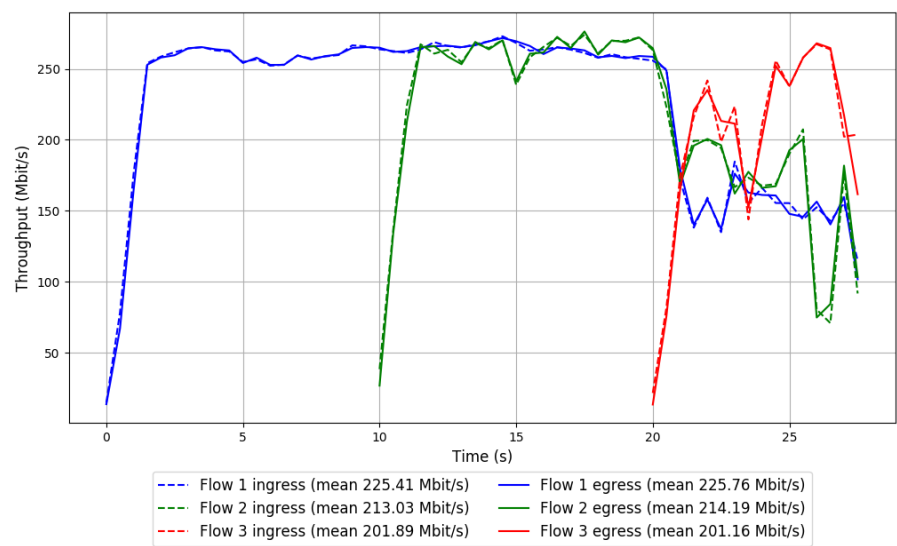


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 16:46:29
End at: 2018-01-26 16:46:59

# Below is generated by plot.py at 2018-01-26 21:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.44 Mbit/s
95th percentile per-packet one-way delay: 54.009 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 225.76 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 214.19 Mbit/s
95th percentile per-packet one-way delay: 59.772 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 201.16 Mbit/s
95th percentile per-packet one-way delay: 51.846 ms
Loss rate: 1.64%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 17:01:01

End at: 2018-01-26 17:01:31

Below is generated by plot.py at 2018-01-26 21:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 421.03 Mbit/s

95th percentile per-packet one-way delay: 51.982 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 242.95 Mbit/s

95th percentile per-packet one-way delay: 52.800 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 231.92 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.65%

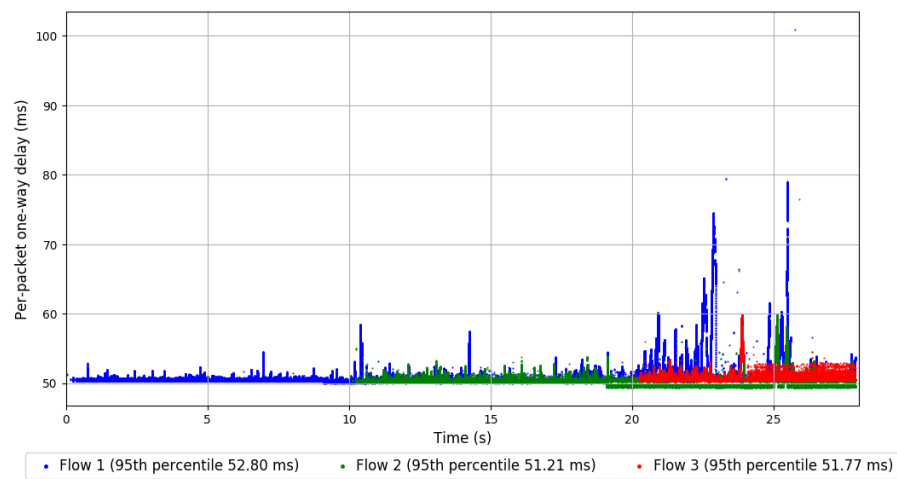
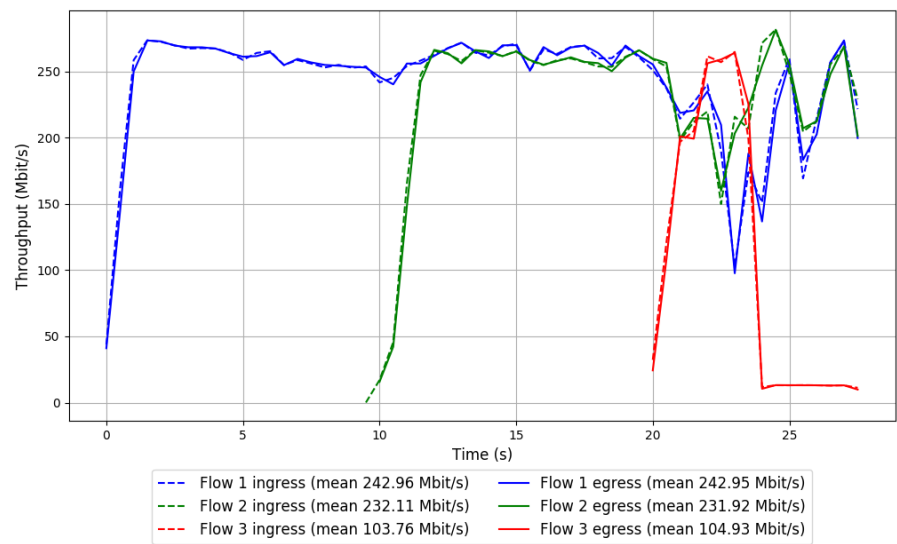
-- Flow 3:

Average throughput: 104.93 Mbit/s

95th percentile per-packet one-way delay: 51.768 ms

Loss rate: 0.16%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 17:15:34

End at: 2018-01-26 17:16:04

Below is generated by plot.py at 2018-01-26 21:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.06 Mbit/s

95th percentile per-packet one-way delay: 51.239 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 192.97 Mbit/s

95th percentile per-packet one-way delay: 50.873 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 231.12 Mbit/s

95th percentile per-packet one-way delay: 51.890 ms

Loss rate: 0.63%

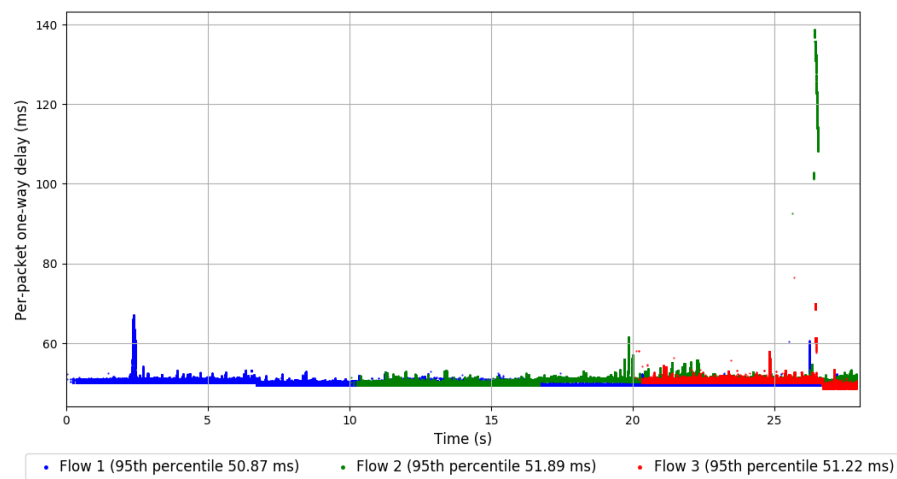
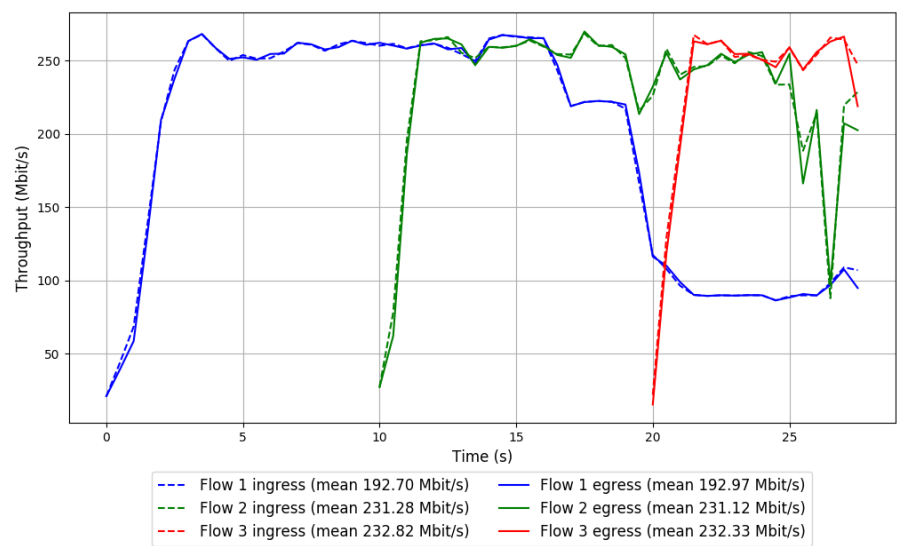
-- Flow 3:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 51.222 ms

Loss rate: 1.50%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 17:30:04

End at: 2018-01-26 17:30:34

Below is generated by plot.py at 2018-01-26 21:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.36 Mbit/s

95th percentile per-packet one-way delay: 50.813 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 192.08 Mbit/s

95th percentile per-packet one-way delay: 50.809 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 245.27 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.52%

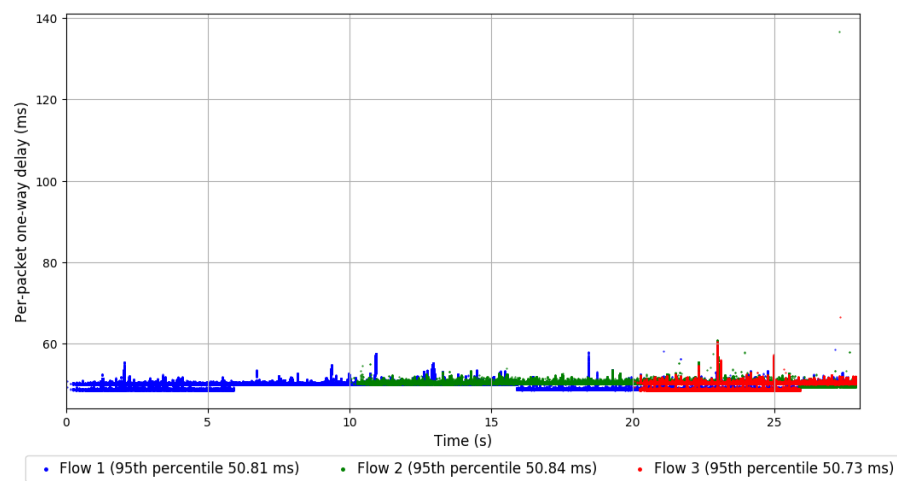
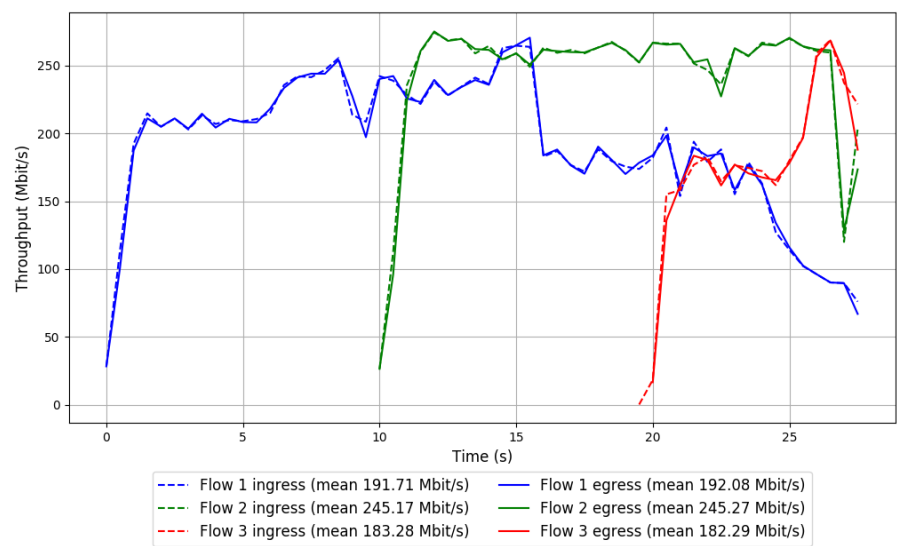
-- Flow 3:

Average throughput: 182.29 Mbit/s

95th percentile per-packet one-way delay: 50.728 ms

Loss rate: 1.79%

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

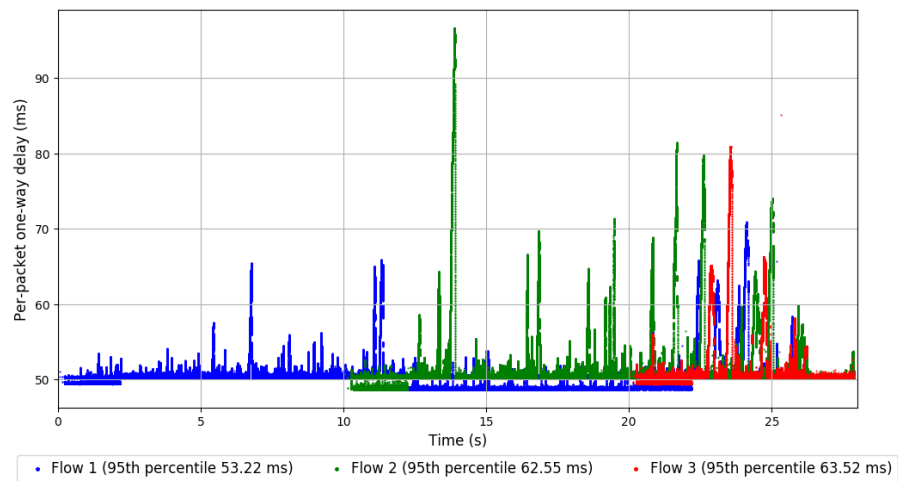
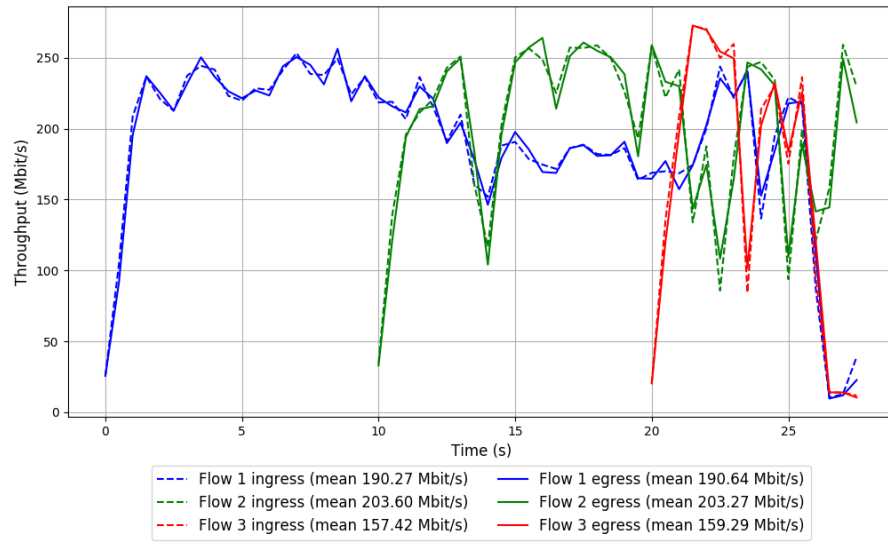


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 17:44:18
End at: 2018-01-26 17:44:48

# Below is generated by plot.py at 2018-01-26 21:50:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 365.52 Mbit/s
95th percentile per-packet one-way delay: 58.157 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 190.64 Mbit/s
95th percentile per-packet one-way delay: 53.216 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 203.27 Mbit/s
95th percentile per-packet one-way delay: 62.551 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 159.29 Mbit/s
95th percentile per-packet one-way delay: 63.523 ms
Loss rate: 0.12%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 17:58:38

End at: 2018-01-26 17:59:08

Below is generated by plot.py at 2018-01-26 21:53:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 440.68 Mbit/s

95th percentile per-packet one-way delay: 52.541 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 239.82 Mbit/s

95th percentile per-packet one-way delay: 52.908 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 218.59 Mbit/s

95th percentile per-packet one-way delay: 52.526 ms

Loss rate: 0.39%

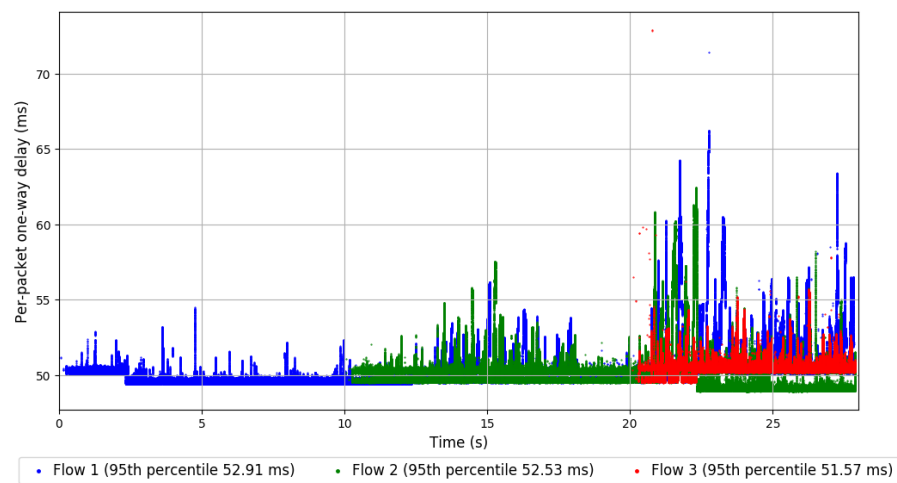
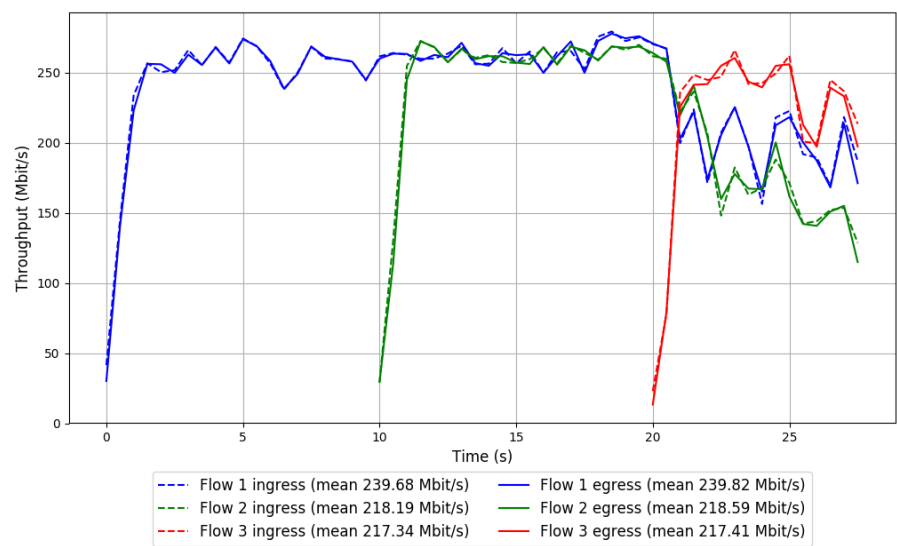
-- Flow 3:

Average throughput: 217.41 Mbit/s

95th percentile per-packet one-way delay: 51.570 ms

Loss rate: 1.27%

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

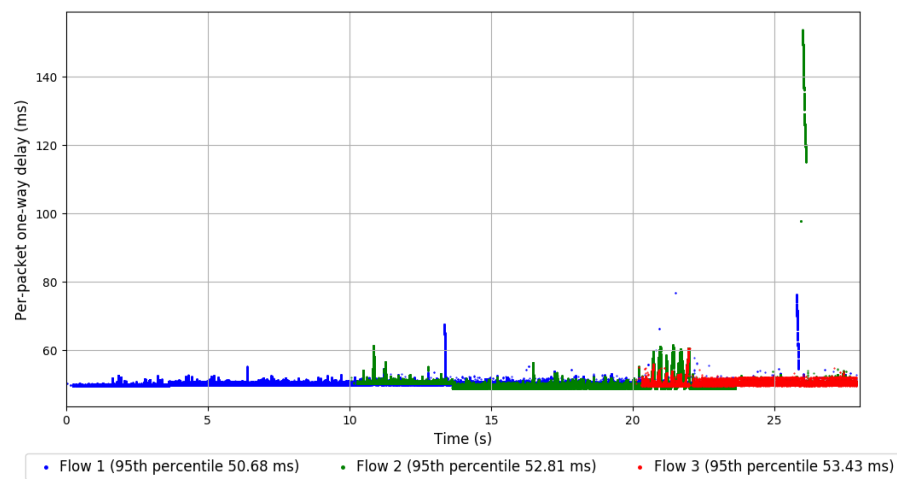
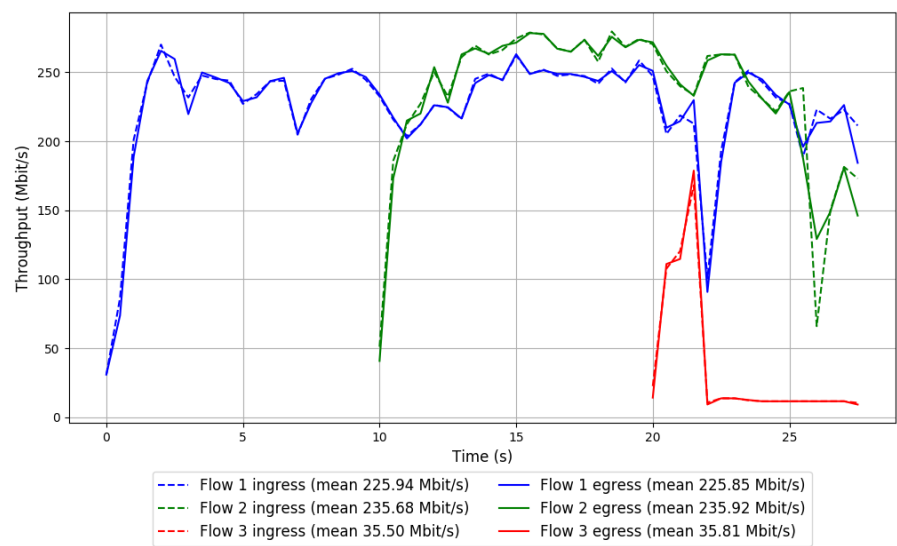


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 18:13:07
End at: 2018-01-26 18:13:37

# Below is generated by plot.py at 2018-01-26 21:53:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.95 Mbit/s
95th percentile per-packet one-way delay: 51.157 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 225.85 Mbit/s
95th percentile per-packet one-way delay: 50.679 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 235.92 Mbit/s
95th percentile per-packet one-way delay: 52.809 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 53.434 ms
Loss rate: 0.42%
```


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

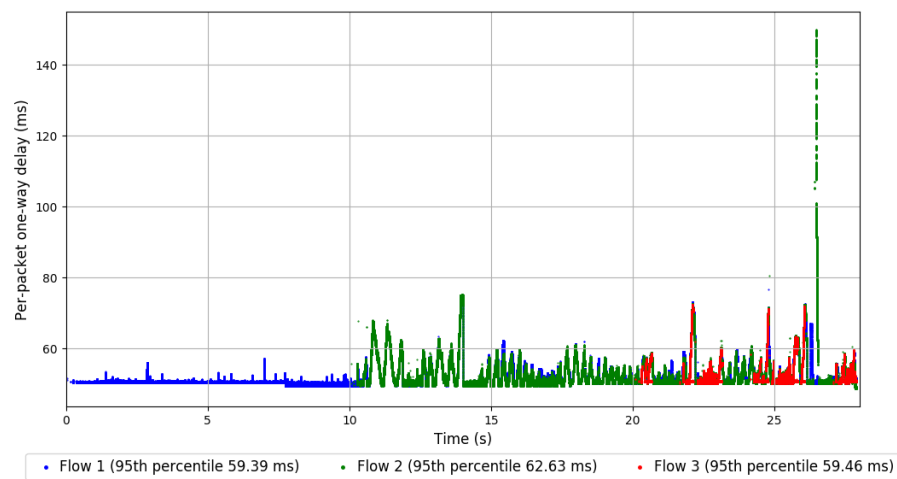
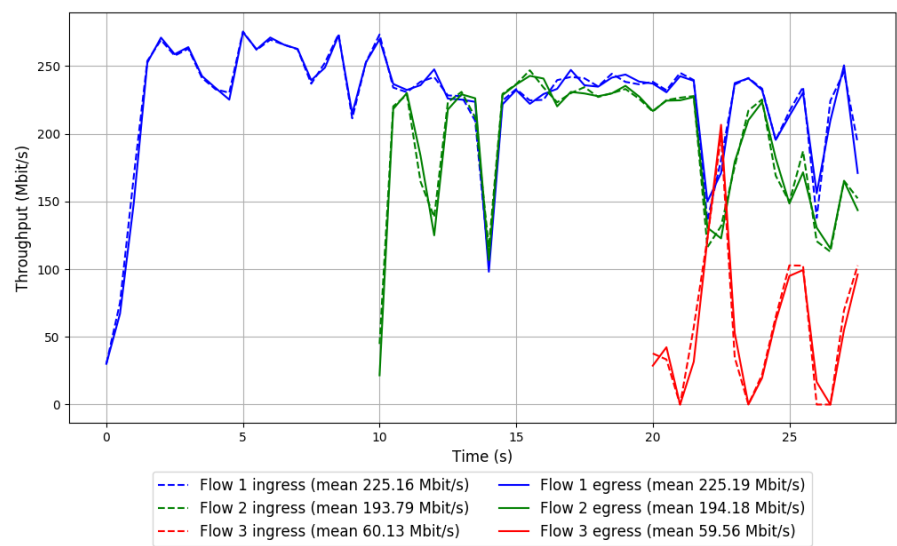


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 18:27:33
End at: 2018-01-26 18:28:03

# Below is generated by plot.py at 2018-01-26 21:53:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.19 Mbit/s
95th percentile per-packet one-way delay: 60.408 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 225.19 Mbit/s
95th percentile per-packet one-way delay: 59.391 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 194.18 Mbit/s
95th percentile per-packet one-way delay: 62.631 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 59.56 Mbit/s
95th percentile per-packet one-way delay: 59.464 ms
Loss rate: 2.23%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 16:23:42

End at: 2018-01-26 16:24:12

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.05 Mbit/s

95th percentile per-packet one-way delay: 50.935 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 70.34 Mbit/s

95th percentile per-packet one-way delay: 51.031 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.62%

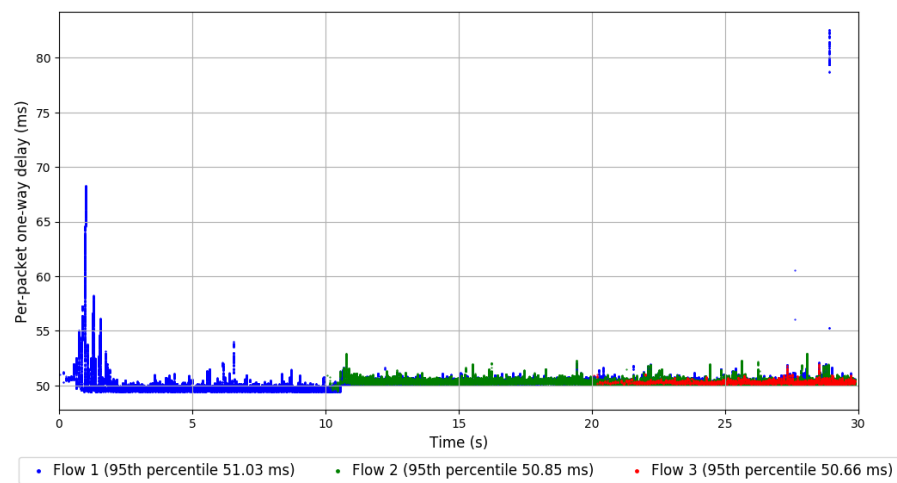
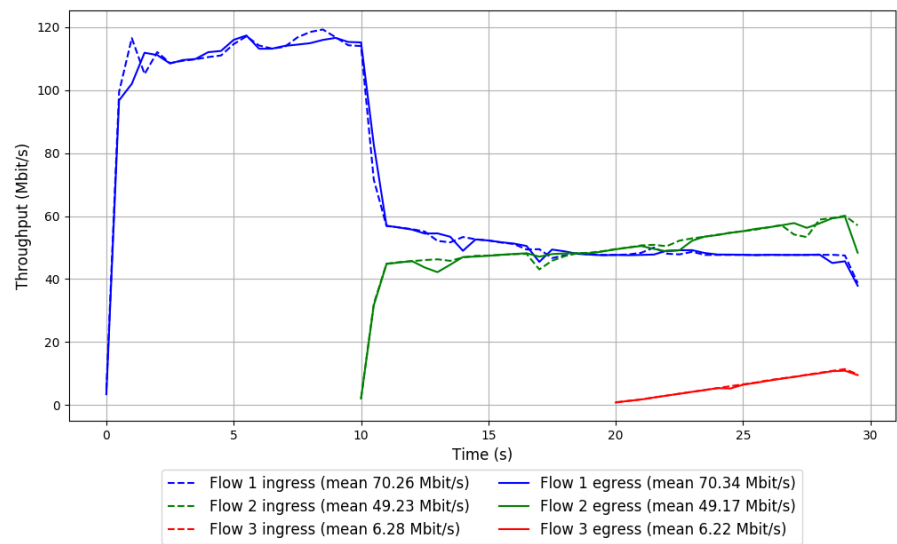
-- Flow 3:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 50.665 ms

Loss rate: 2.05%

Run 1: Report of TCP Vegas — Data Link

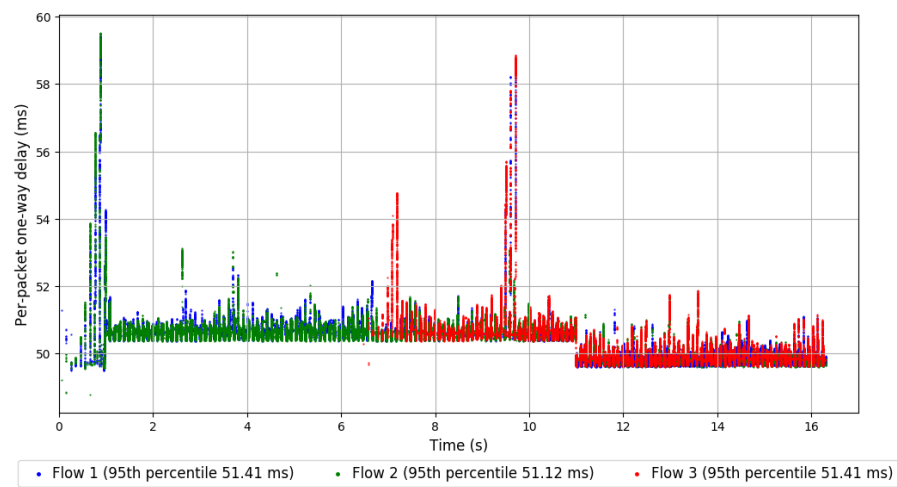
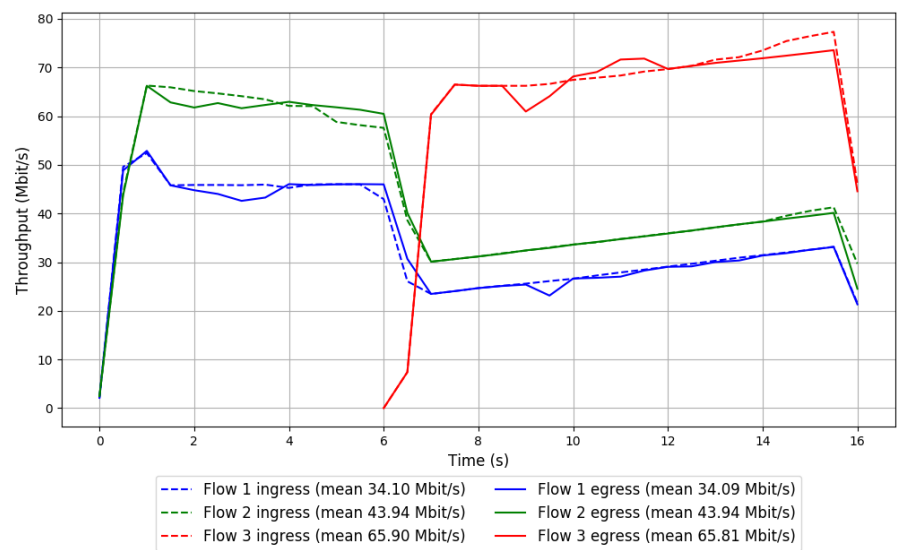


Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 16:38:08

End at: 2018-01-26 16:38:38

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 16:52:39

End at: 2018-01-26 16:53:09

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.29 Mbit/s

95th percentile per-packet one-way delay: 51.930 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 67.11 Mbit/s

95th percentile per-packet one-way delay: 51.604 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 34.64 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.54%

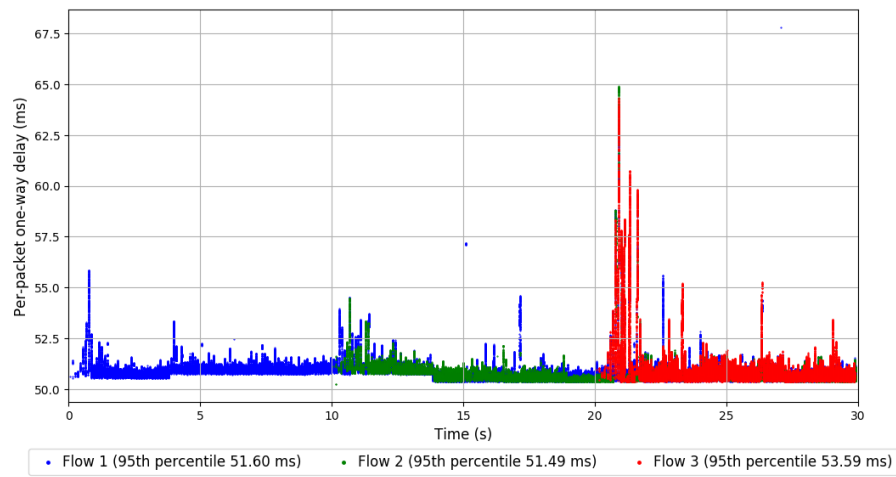
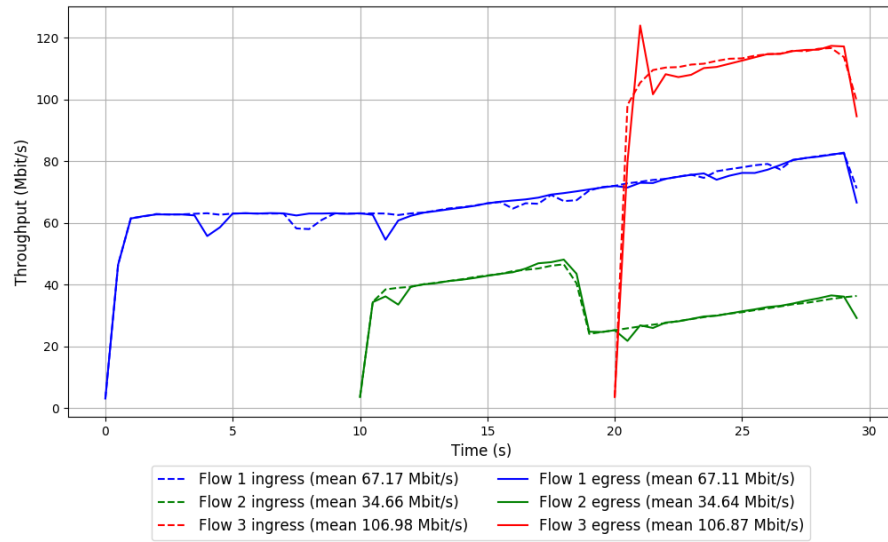
-- Flow 3:

Average throughput: 106.87 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 1.12%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 17:07:14

End at: 2018-01-26 17:07:44

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.62 Mbit/s

95th percentile per-packet one-way delay: 57.425 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 27.89 Mbit/s

95th percentile per-packet one-way delay: 53.819 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 85.83 Mbit/s

95th percentile per-packet one-way delay: 58.046 ms

Loss rate: 0.50%

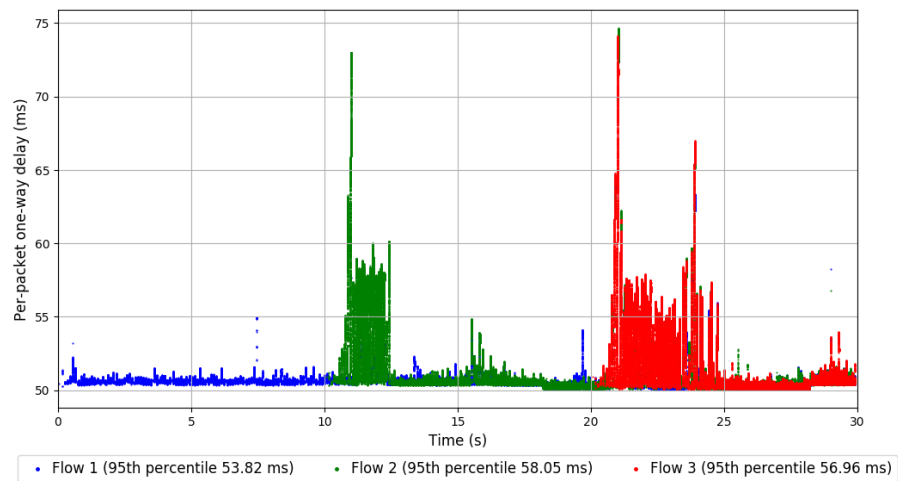
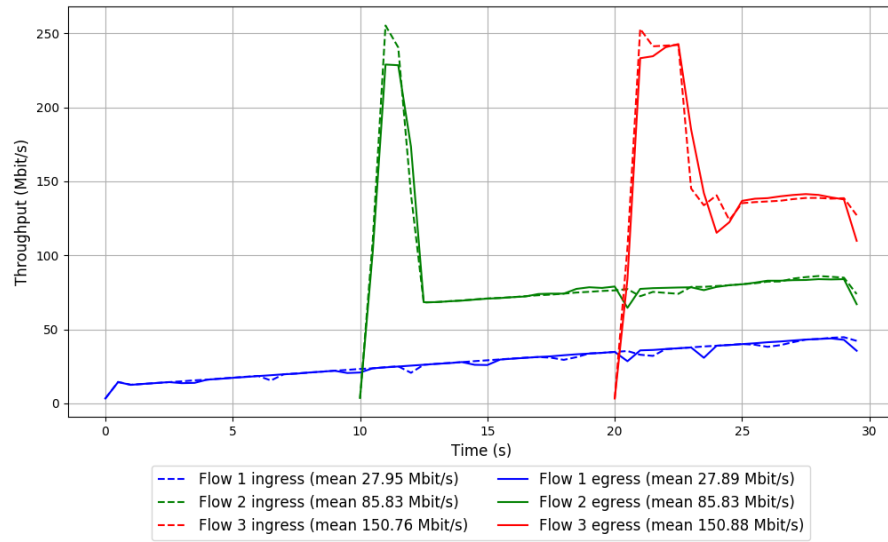
-- Flow 3:

Average throughput: 150.88 Mbit/s

95th percentile per-packet one-way delay: 56.959 ms

Loss rate: 0.92%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 17:21:37

End at: 2018-01-26 17:22:07

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.31 Mbit/s

95th percentile per-packet one-way delay: 51.472 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 51.539 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 139.90 Mbit/s

95th percentile per-packet one-way delay: 51.399 ms

Loss rate: 0.21%

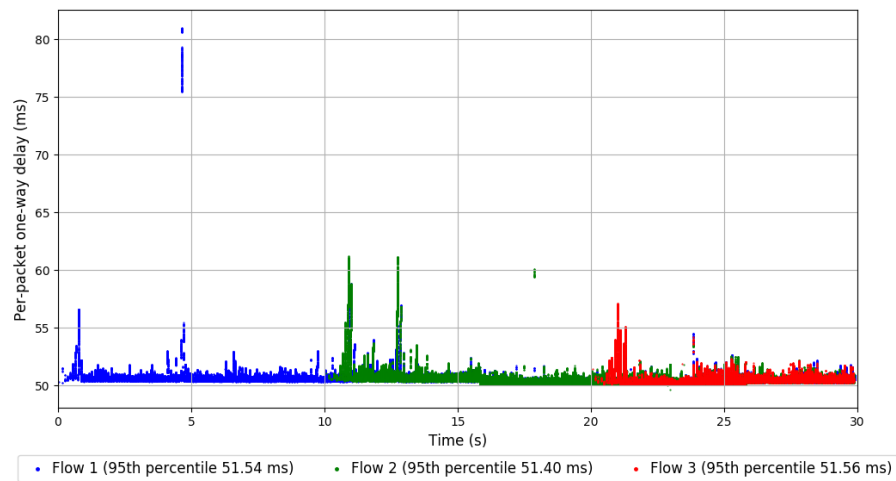
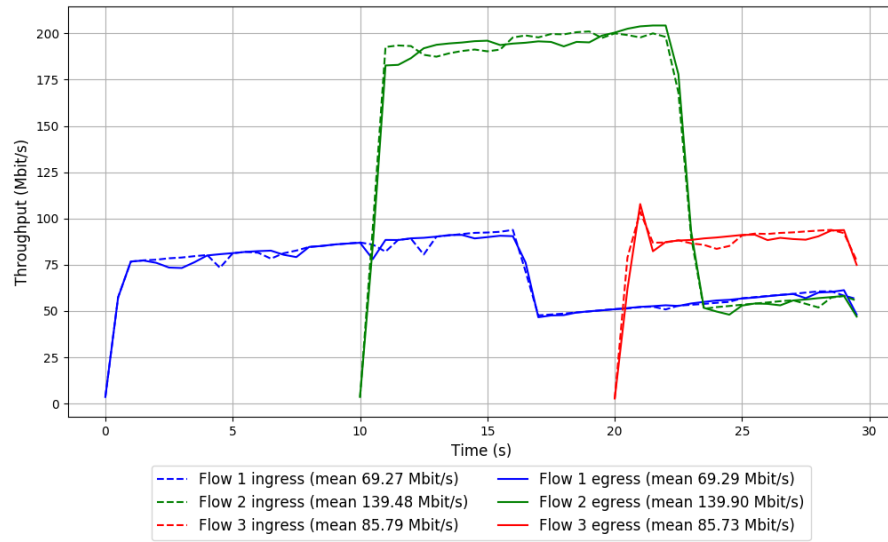
-- Flow 3:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 51.560 ms

Loss rate: 1.11%

Run 5: Report of TCP Vegas — Data Link

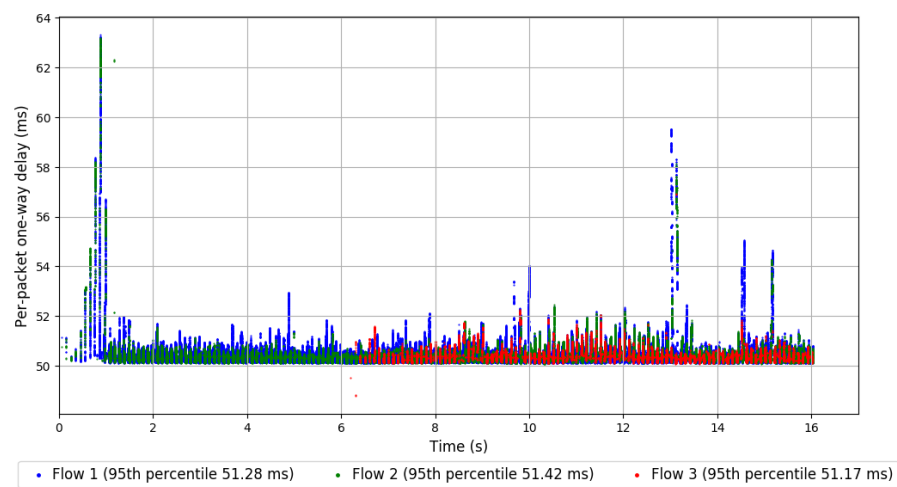
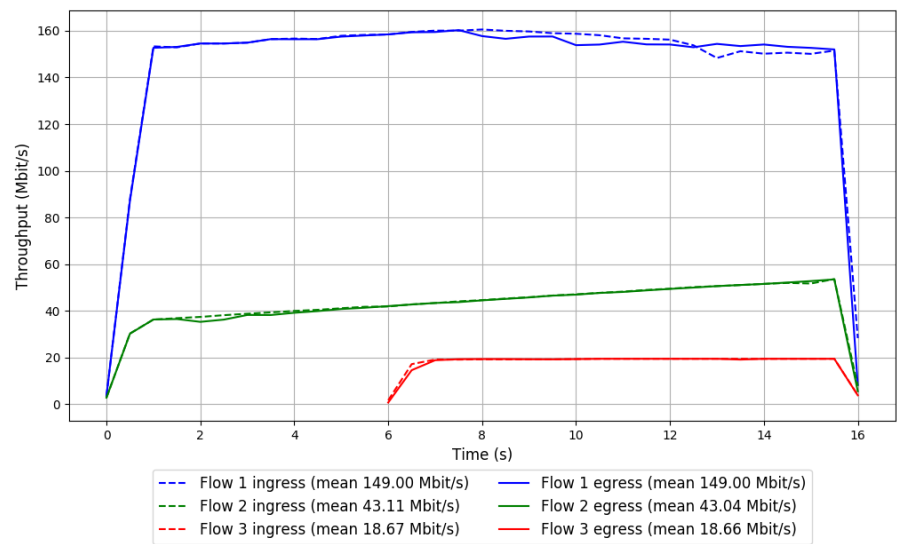


Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 17:36:09

End at: 2018-01-26 17:36:39

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 17:50:18

End at: 2018-01-26 17:50:48

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 51.223 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 51.281 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.35%

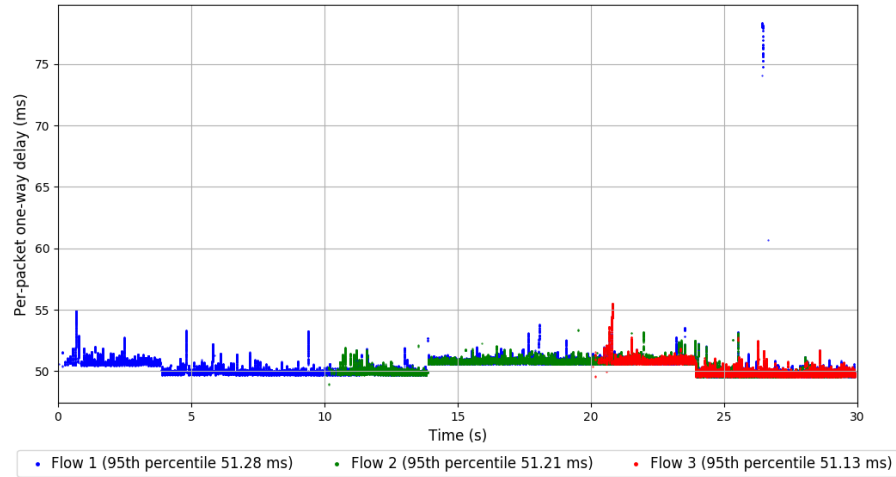
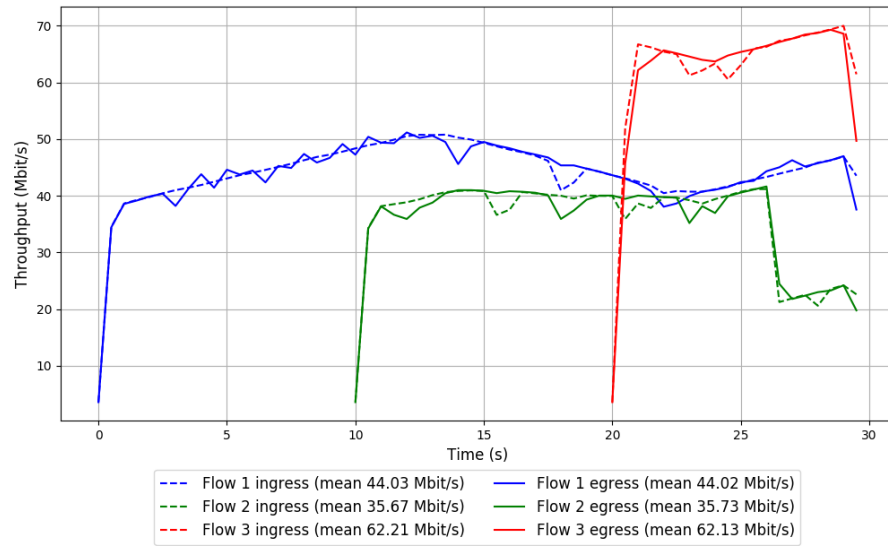
-- Flow 3:

Average throughput: 62.13 Mbit/s

95th percentile per-packet one-way delay: 51.131 ms

Loss rate: 1.13%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 18:04:45

End at: 2018-01-26 18:05:15

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.93 Mbit/s

95th percentile per-packet one-way delay: 51.817 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 51.207 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 53.004 ms

Loss rate: 0.41%

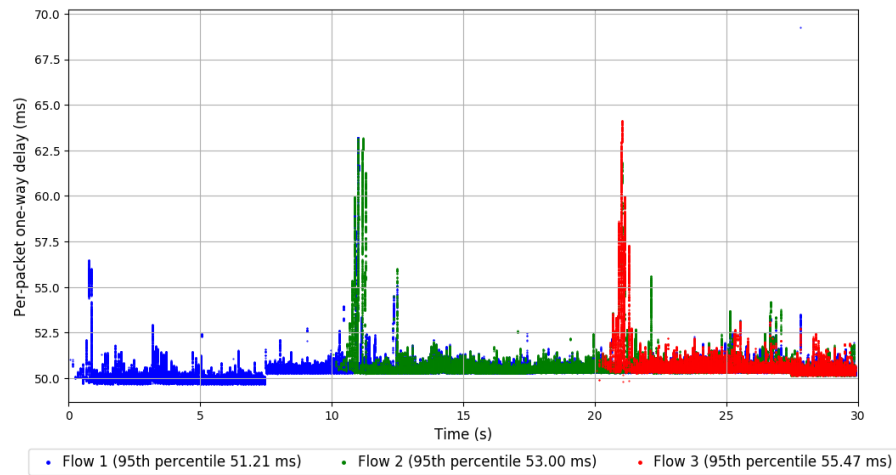
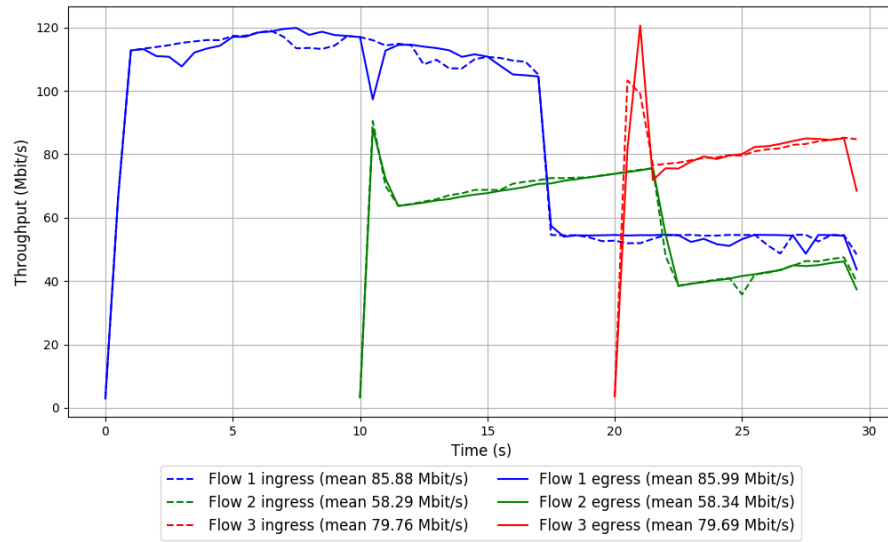
-- Flow 3:

Average throughput: 79.69 Mbit/s

95th percentile per-packet one-way delay: 55.473 ms

Loss rate: 1.08%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 18:19:10

End at: 2018-01-26 18:19:40

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 56.086 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 52.182 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 52.852 ms

Loss rate: 0.50%

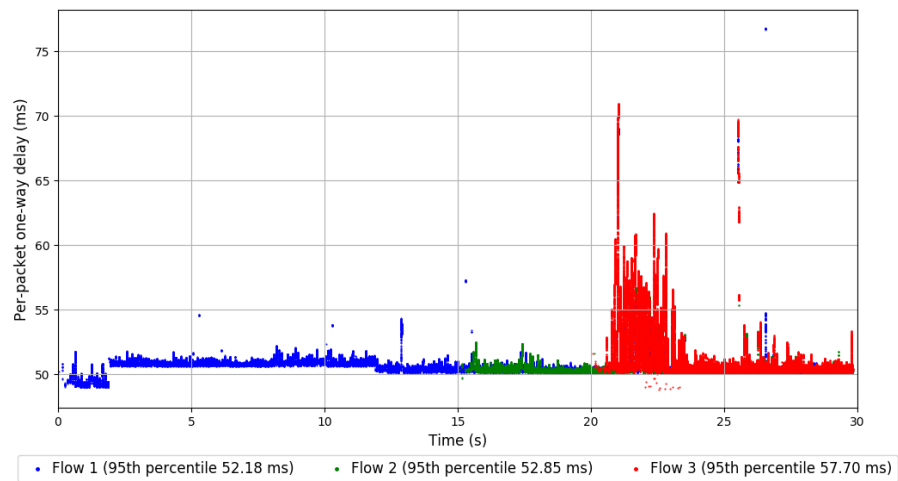
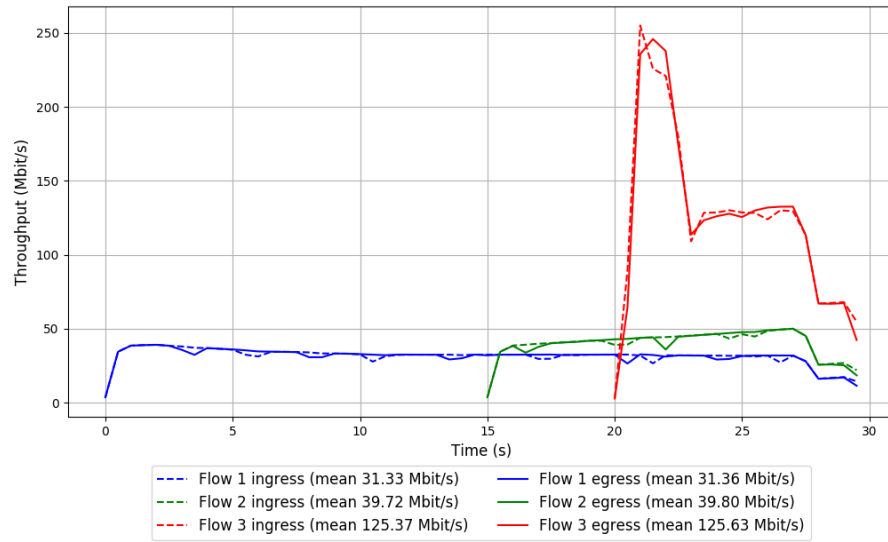
-- Flow 3:

Average throughput: 125.63 Mbit/s

95th percentile per-packet one-way delay: 57.696 ms

Loss rate: 0.83%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 18:33:32

End at: 2018-01-26 18:34:02

Below is generated by plot.py at 2018-01-26 21:53:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.60 Mbit/s

95th percentile per-packet one-way delay: 51.511 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 56.98 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 51.745 ms

Loss rate: 0.64%

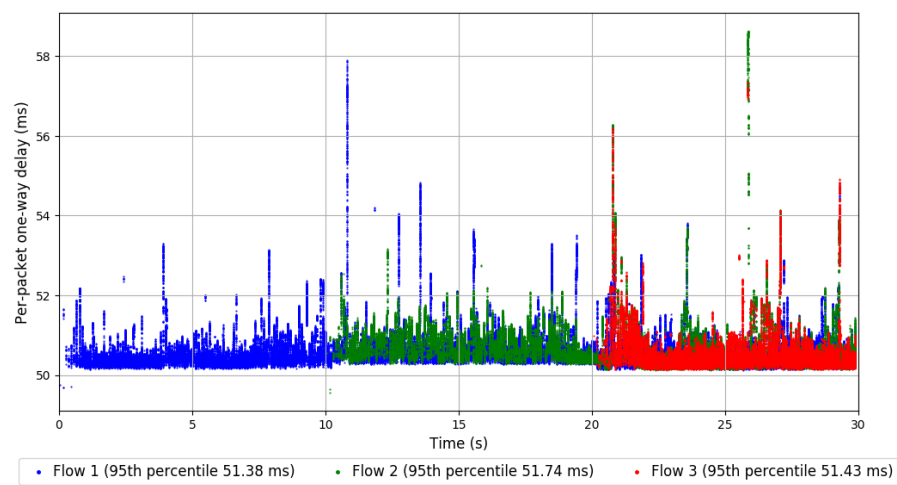
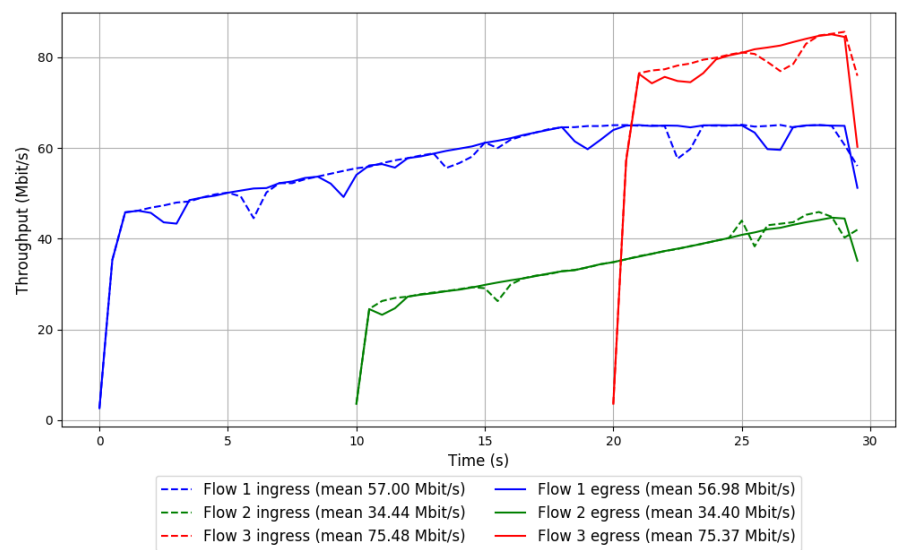
-- Flow 3:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 51.427 ms

Loss rate: 1.16%

Run 10: Report of TCP Vegas — Data Link

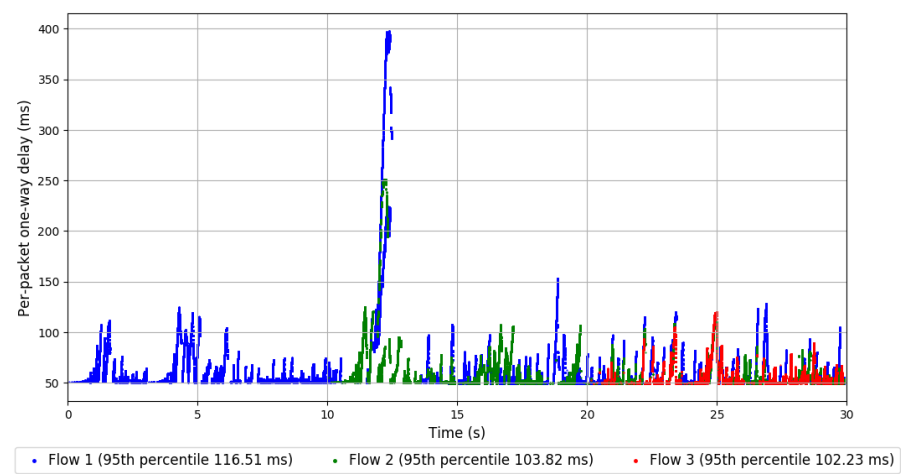
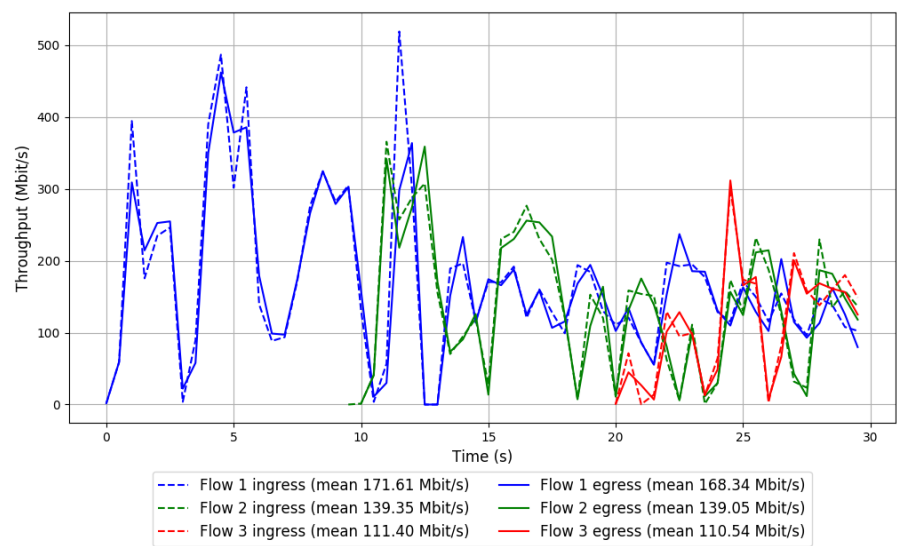


```
Run 1: Statistics of Verus

Start at: 2018-01-26 16:21:08
End at: 2018-01-26 16:21:38

# Below is generated by plot.py at 2018-01-26 21:53:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.08 Mbit/s
95th percentile per-packet one-way delay: 111.303 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 168.34 Mbit/s
95th percentile per-packet one-way delay: 116.509 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 139.05 Mbit/s
95th percentile per-packet one-way delay: 103.818 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 110.54 Mbit/s
95th percentile per-packet one-way delay: 102.229 ms
Loss rate: 2.13%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 16:35:31

End at: 2018-01-26 16:36:01

Below is generated by plot.py at 2018-01-26 21:54:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.24 Mbit/s

95th percentile per-packet one-way delay: 102.862 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 205.53 Mbit/s

95th percentile per-packet one-way delay: 117.587 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 140.03 Mbit/s

95th percentile per-packet one-way delay: 100.307 ms

Loss rate: 0.26%

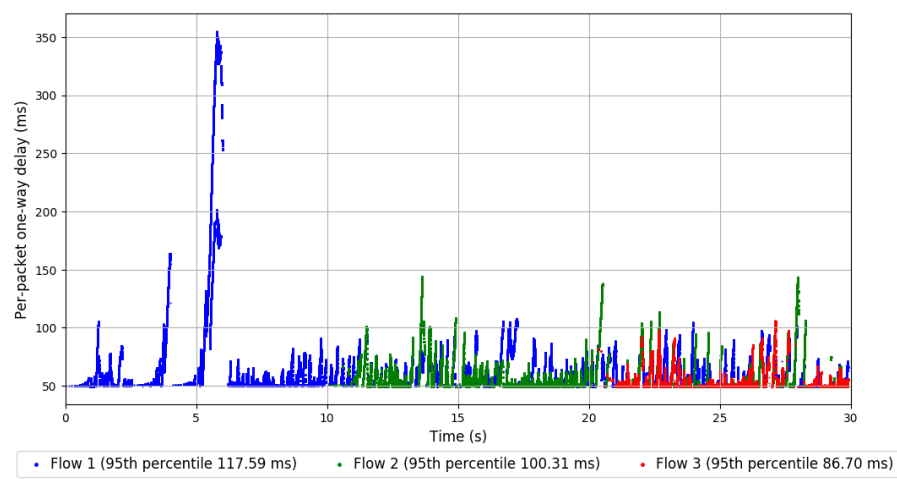
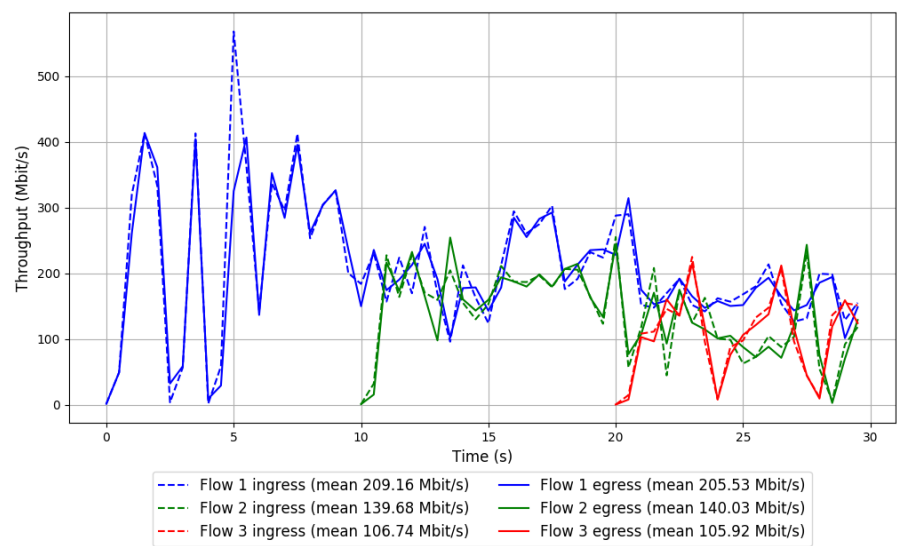
-- Flow 3:

Average throughput: 105.92 Mbit/s

95th percentile per-packet one-way delay: 86.704 ms

Loss rate: 2.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 16:49:59

End at: 2018-01-26 16:50:29

Below is generated by plot.py at 2018-01-26 21:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.70 Mbit/s

95th percentile per-packet one-way delay: 123.784 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 233.75 Mbit/s

95th percentile per-packet one-way delay: 116.659 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 147.58 Mbit/s

95th percentile per-packet one-way delay: 136.648 ms

Loss rate: 0.09%

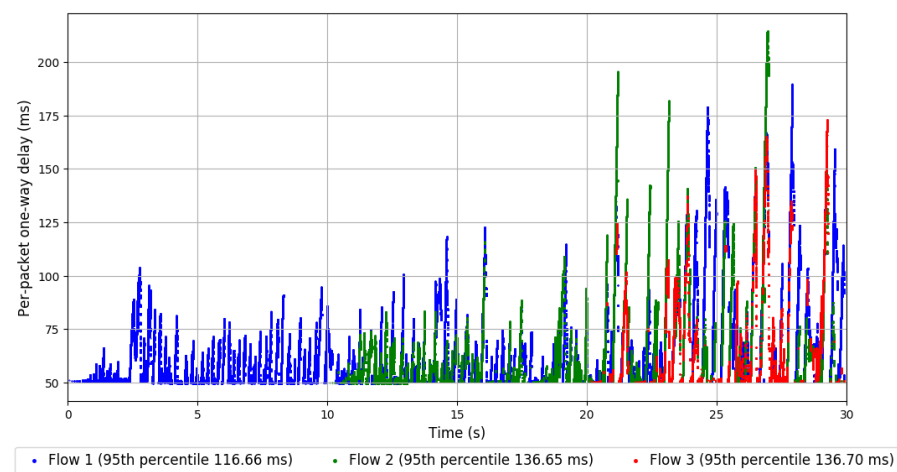
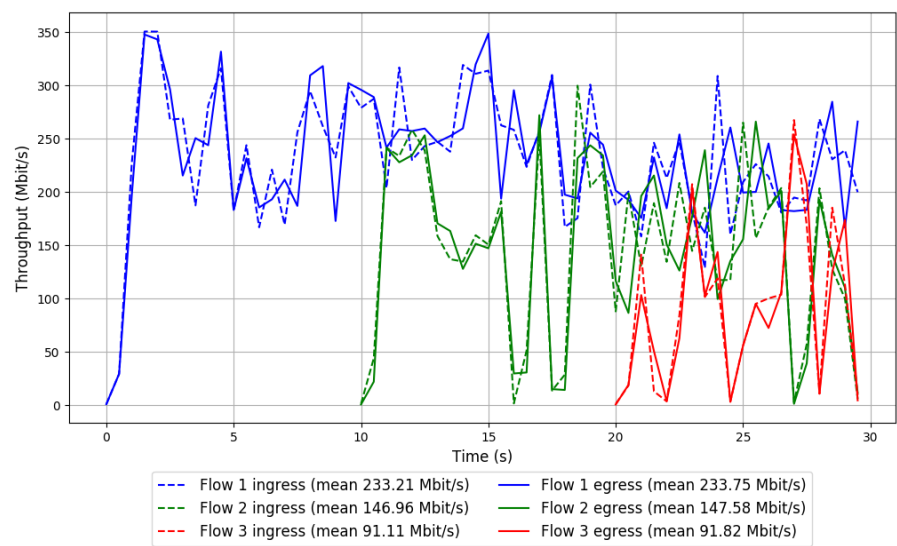
-- Flow 3:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 136.699 ms

Loss rate: 0.27%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 17:04:32

End at: 2018-01-26 17:05:02

Below is generated by plot.py at 2018-01-26 21:56:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.29 Mbit/s

95th percentile per-packet one-way delay: 130.773 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 238.12 Mbit/s

95th percentile per-packet one-way delay: 139.139 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 178.24 Mbit/s

95th percentile per-packet one-way delay: 109.076 ms

Loss rate: 0.02%

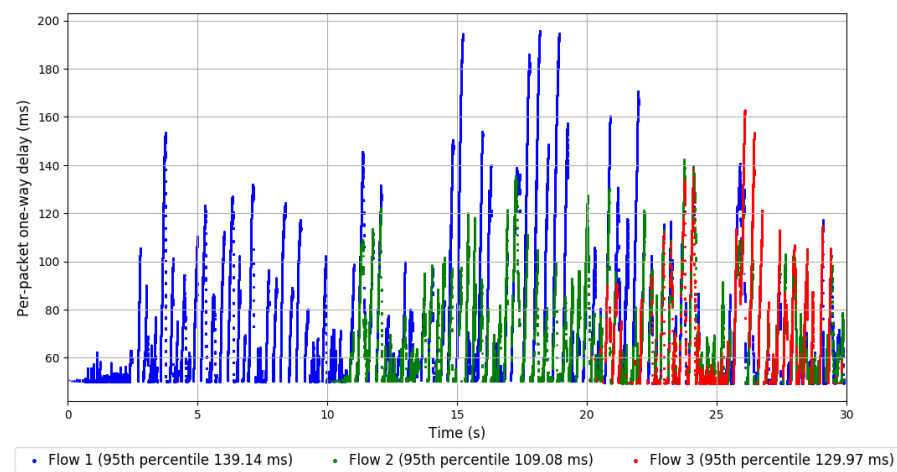
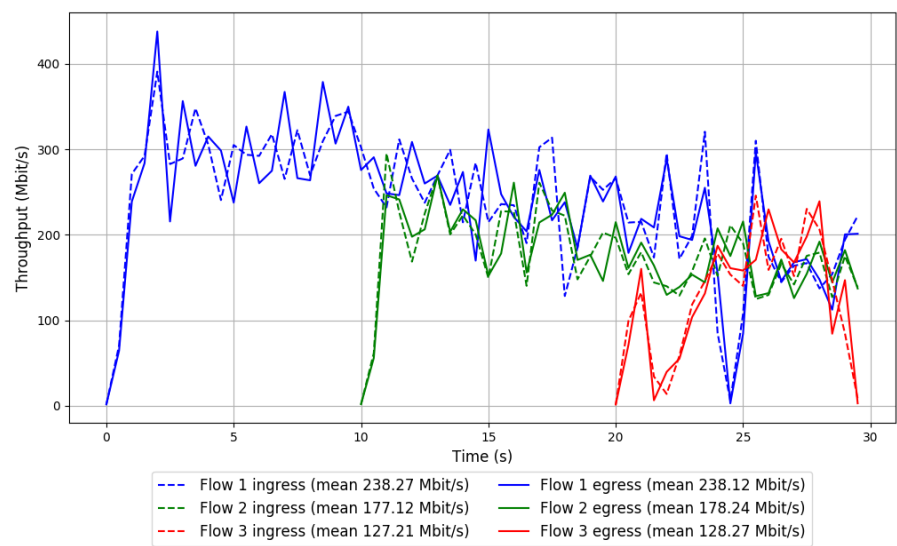
-- Flow 3:

Average throughput: 128.27 Mbit/s

95th percentile per-packet one-way delay: 129.966 ms

Loss rate: 0.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-26 17:18:58

End at: 2018-01-26 17:19:28

Below is generated by plot.py at 2018-01-26 21:57:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.16 Mbit/s

95th percentile per-packet one-way delay: 149.123 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 108.691 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 137.89 Mbit/s

95th percentile per-packet one-way delay: 192.357 ms

Loss rate: 1.63%

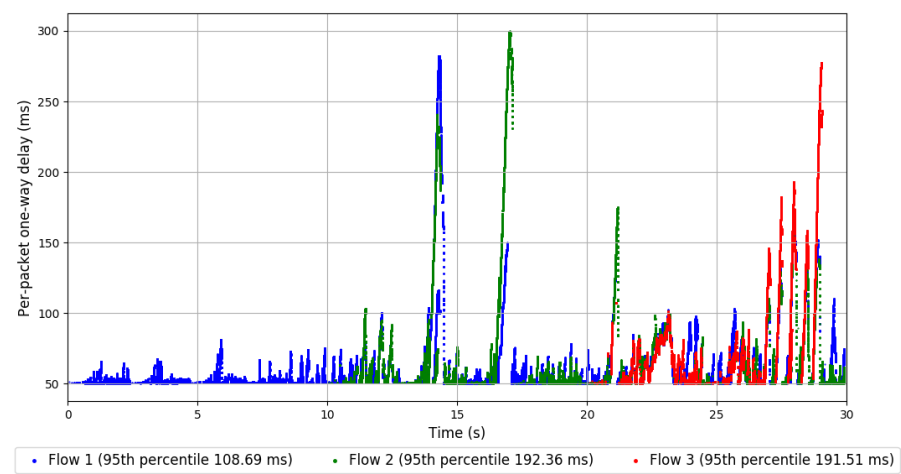
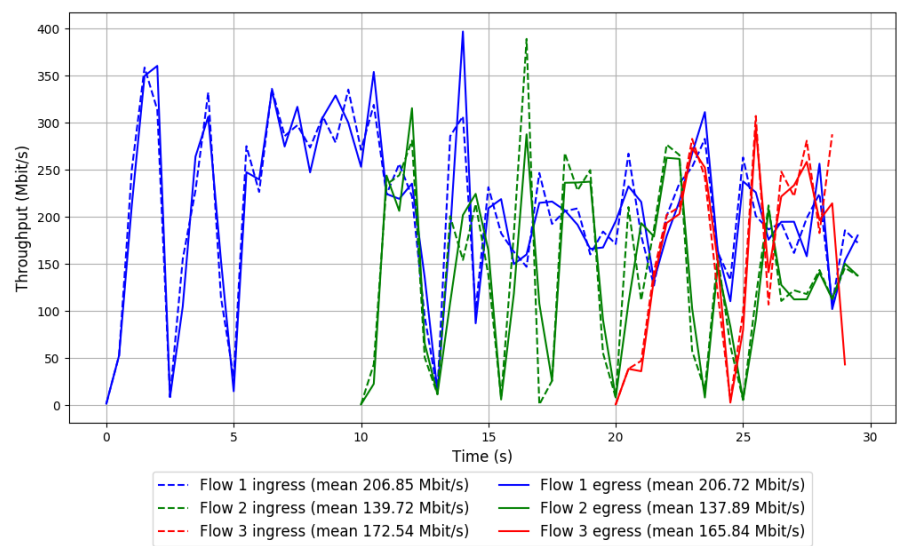
-- Flow 3:

Average throughput: 165.84 Mbit/s

95th percentile per-packet one-way delay: 191.510 ms

Loss rate: 1.77%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 17:33:32

End at: 2018-01-26 17:34:02

Below is generated by plot.py at 2018-01-26 21:59:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.84 Mbit/s

95th percentile per-packet one-way delay: 154.829 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 191.19 Mbit/s

95th percentile per-packet one-way delay: 173.257 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 150.52 Mbit/s

95th percentile per-packet one-way delay: 154.307 ms

Loss rate: 0.95%

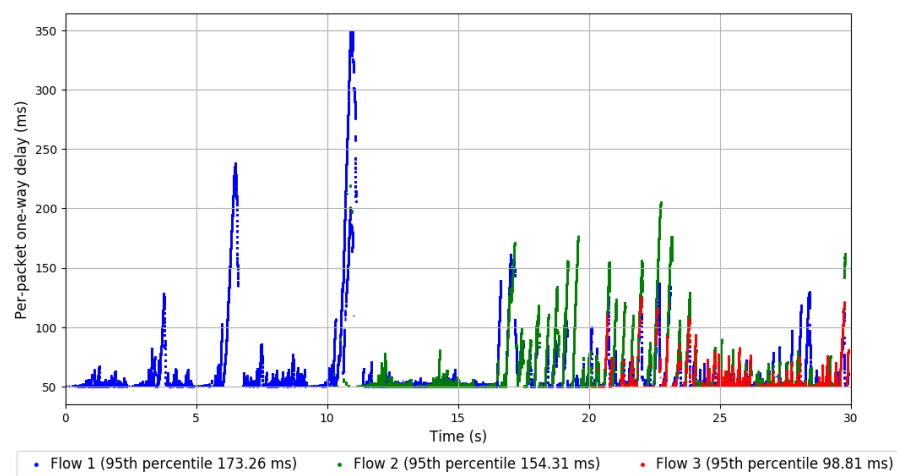
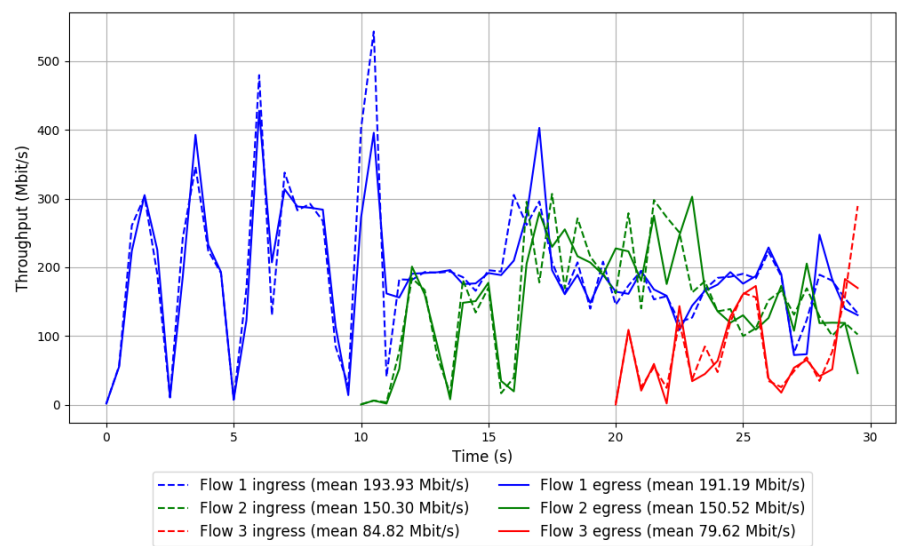
-- Flow 3:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 98.813 ms

Loss rate: 7.09%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 17:47:44

End at: 2018-01-26 17:48:14

Below is generated by plot.py at 2018-01-26 21:59:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.77 Mbit/s

95th percentile per-packet one-way delay: 115.595 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 207.44 Mbit/s

95th percentile per-packet one-way delay: 106.654 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 128.62 Mbit/s

95th percentile per-packet one-way delay: 135.909 ms

Loss rate: 1.78%

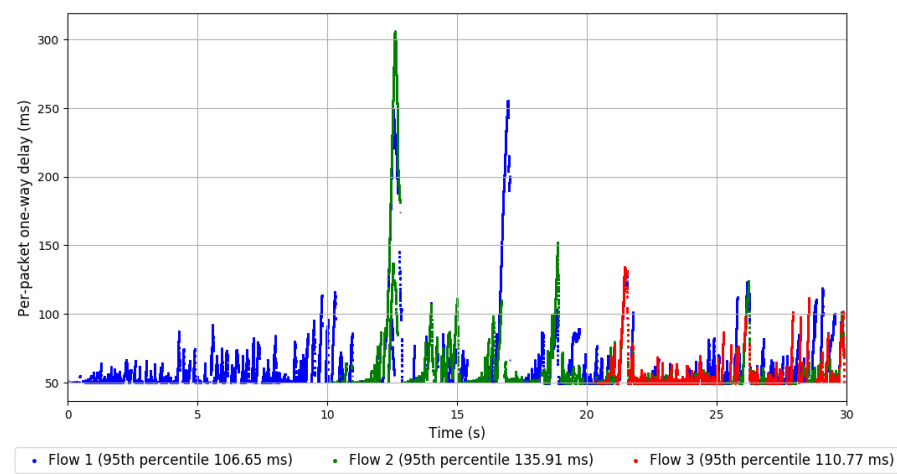
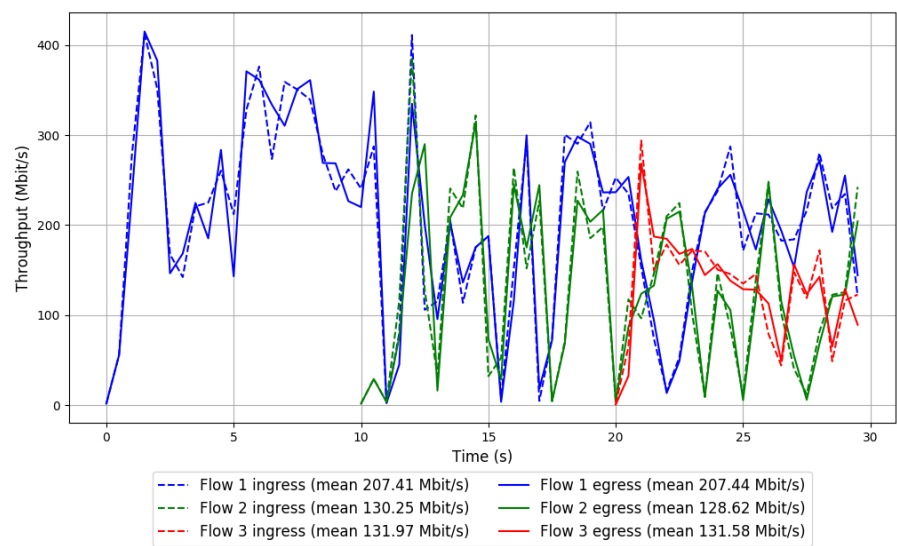
-- Flow 3:

Average throughput: 131.58 Mbit/s

95th percentile per-packet one-way delay: 110.769 ms

Loss rate: 1.30%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 18:02:07

End at: 2018-01-26 18:02:37

Below is generated by plot.py at 2018-01-26 21:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.74 Mbit/s

95th percentile per-packet one-way delay: 80.318 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 205.79 Mbit/s

95th percentile per-packet one-way delay: 80.788 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 165.24 Mbit/s

95th percentile per-packet one-way delay: 79.408 ms

Loss rate: 0.68%

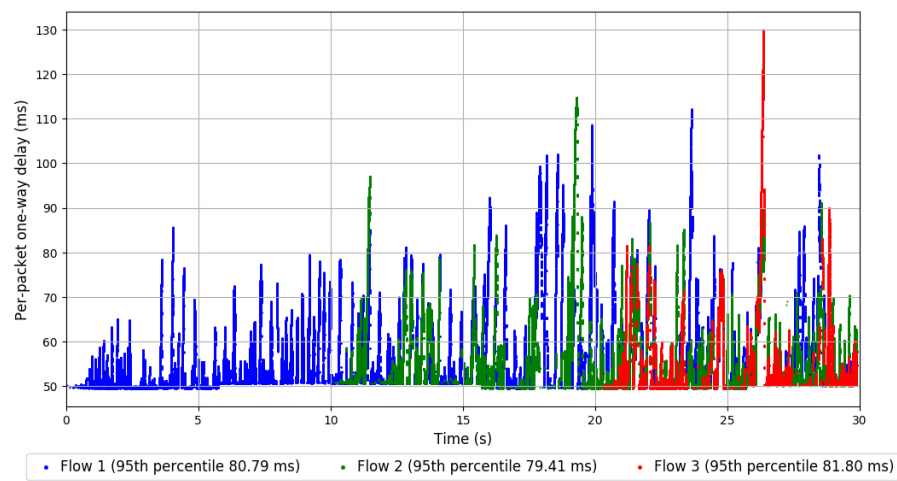
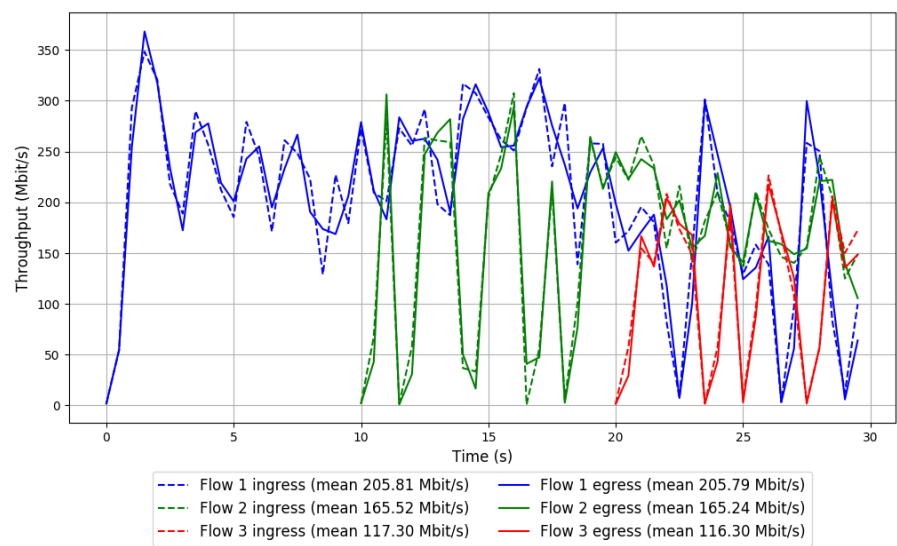
-- Flow 3:

Average throughput: 116.30 Mbit/s

95th percentile per-packet one-way delay: 81.798 ms

Loss rate: 1.89%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 18:16:34

End at: 2018-01-26 18:17:04

Below is generated by plot.py at 2018-01-26 21:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.02 Mbit/s

95th percentile per-packet one-way delay: 125.120 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 152.203 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 131.95 Mbit/s

95th percentile per-packet one-way delay: 87.736 ms

Loss rate: 0.73%

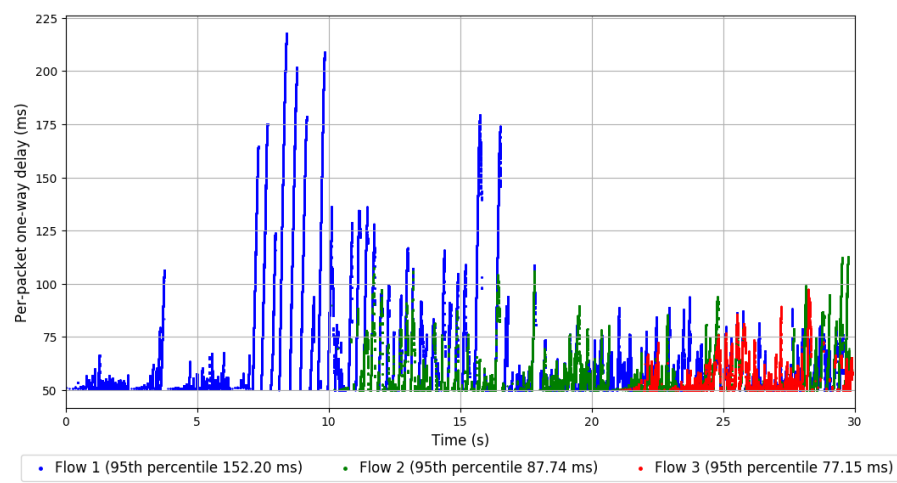
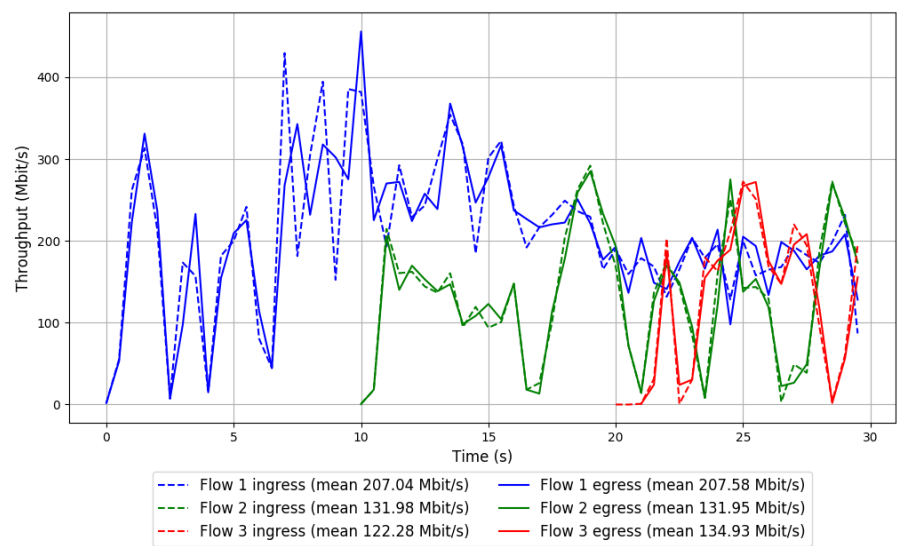
-- Flow 3:

Average throughput: 134.93 Mbit/s

95th percentile per-packet one-way delay: 77.152 ms

Loss rate: 1.90%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 18:30:55

End at: 2018-01-26 18:31:25

Below is generated by plot.py at 2018-01-26 22:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.02 Mbit/s

95th percentile per-packet one-way delay: 90.732 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 185.90 Mbit/s

95th percentile per-packet one-way delay: 101.325 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 154.19 Mbit/s

95th percentile per-packet one-way delay: 80.812 ms

Loss rate: 0.57%

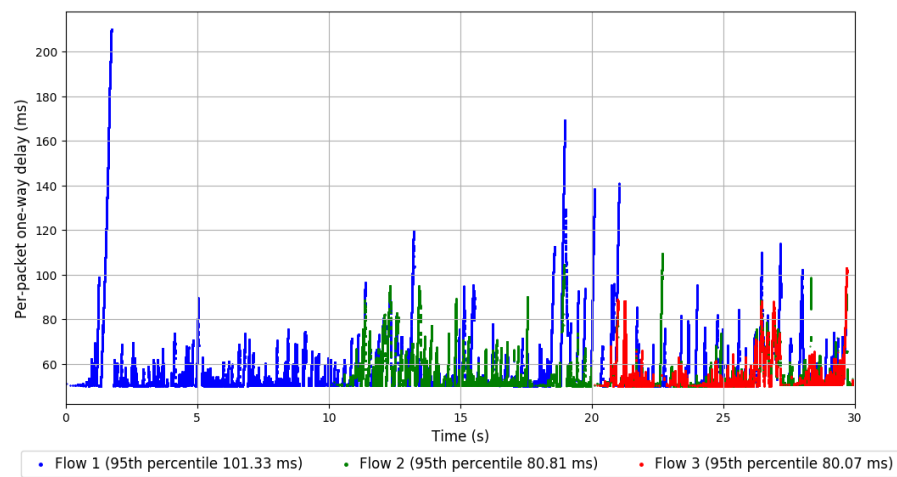
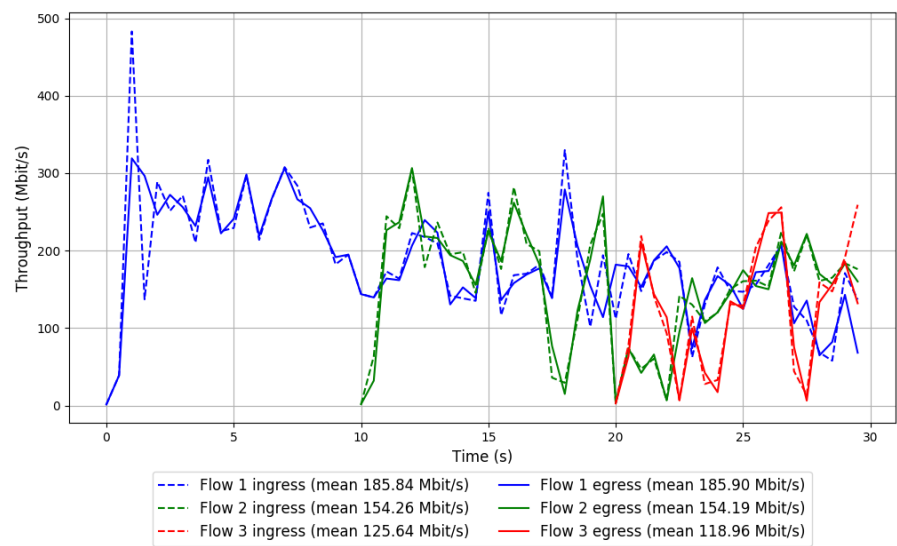
-- Flow 3:

Average throughput: 118.96 Mbit/s

95th percentile per-packet one-way delay: 80.071 ms

Loss rate: 6.30%

Run 10: Report of Verus — Data Link

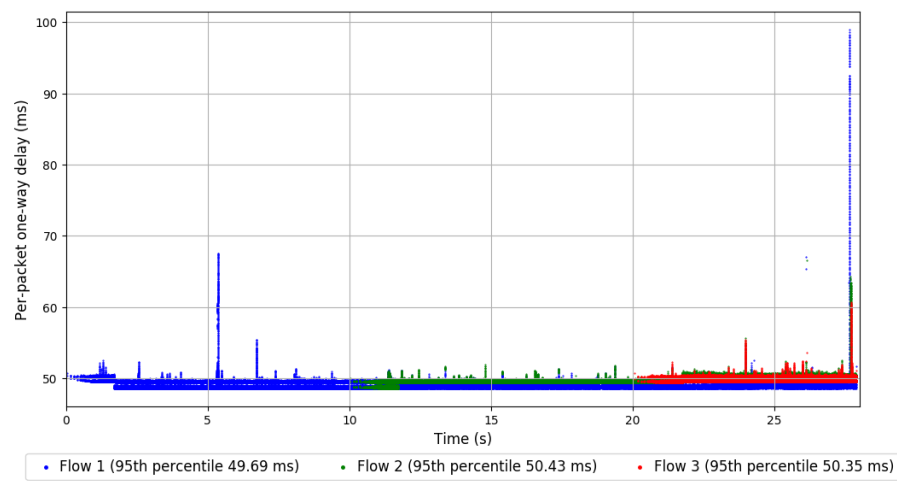
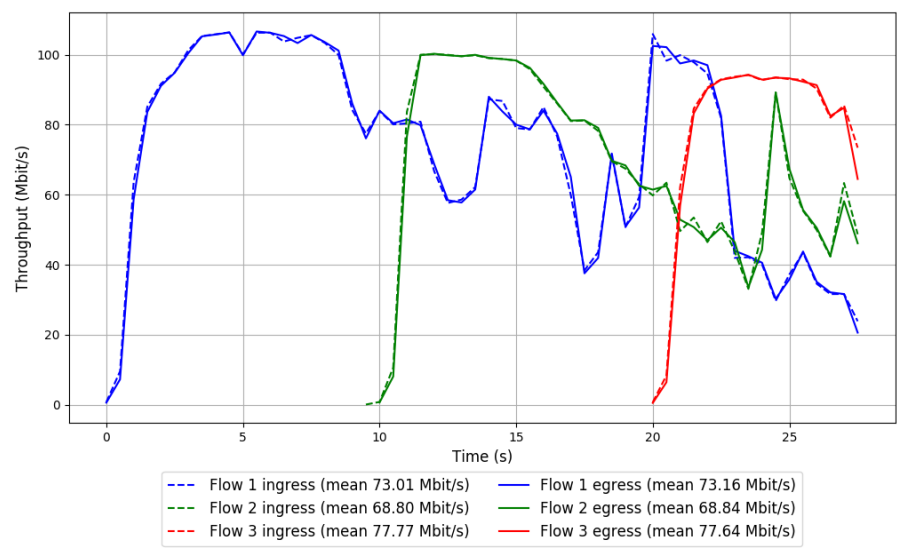


```
Run 1: Statistics of Copa

Start at: 2018-01-26 16:22:09
End at: 2018-01-26 16:22:39

# Below is generated by plot.py at 2018-01-26 22:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.09 Mbit/s
95th percentile per-packet one-way delay: 50.328 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 73.16 Mbit/s
95th percentile per-packet one-way delay: 49.685 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 68.84 Mbit/s
95th percentile per-packet one-way delay: 50.428 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 77.64 Mbit/s
95th percentile per-packet one-way delay: 50.352 ms
Loss rate: 1.44%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 16:36:35

End at: 2018-01-26 16:37:05

Below is generated by plot.py at 2018-01-26 22:01:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.43 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 66.08 Mbit/s

95th percentile per-packet one-way delay: 50.676 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 50.591 ms

Loss rate: 0.50%

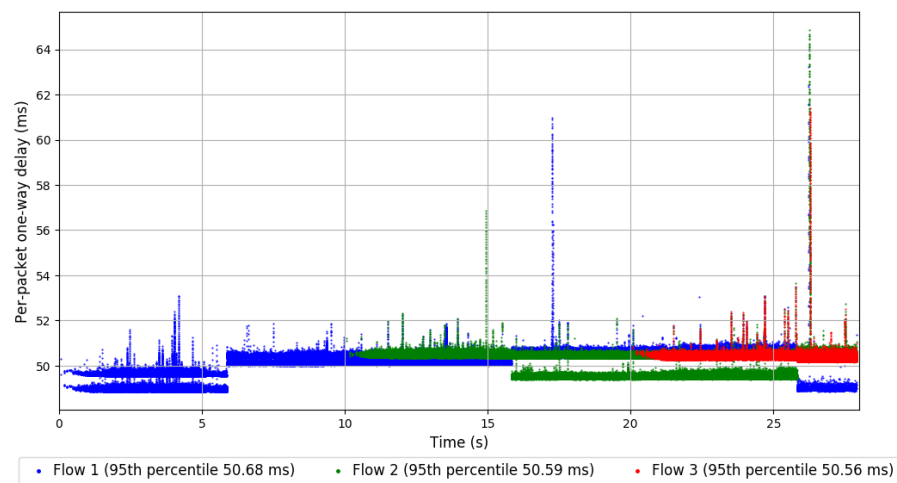
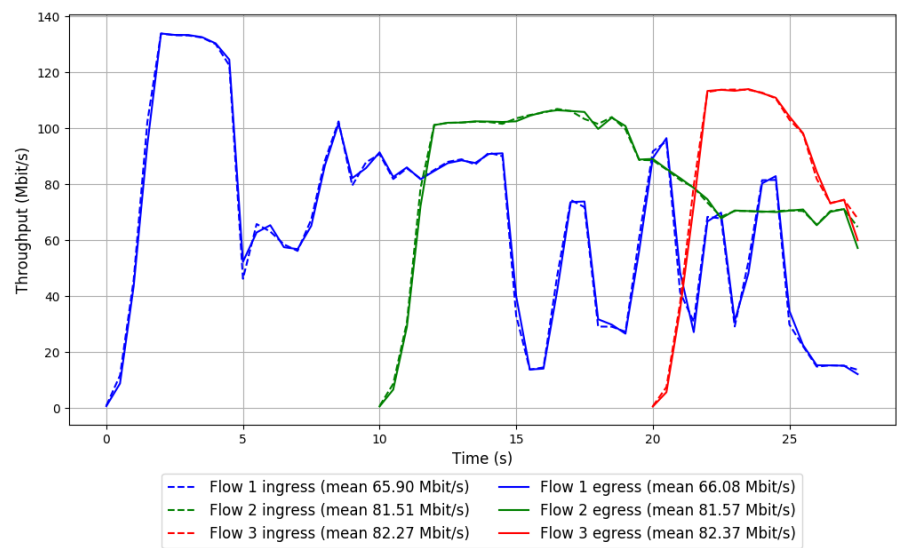
-- Flow 3:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 1.16%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 16:51:04

End at: 2018-01-26 16:51:34

Below is generated by plot.py at 2018-01-26 22:02:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.90 Mbit/s

95th percentile per-packet one-way delay: 50.601 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 50.517 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.47%

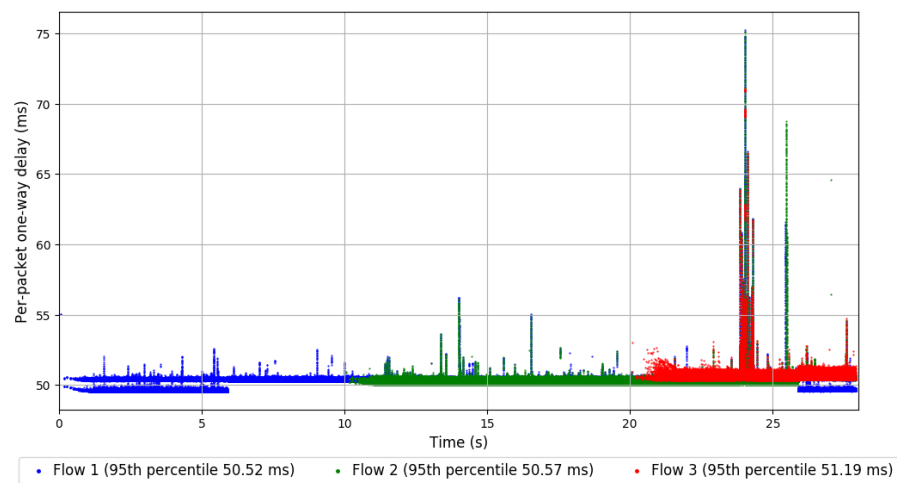
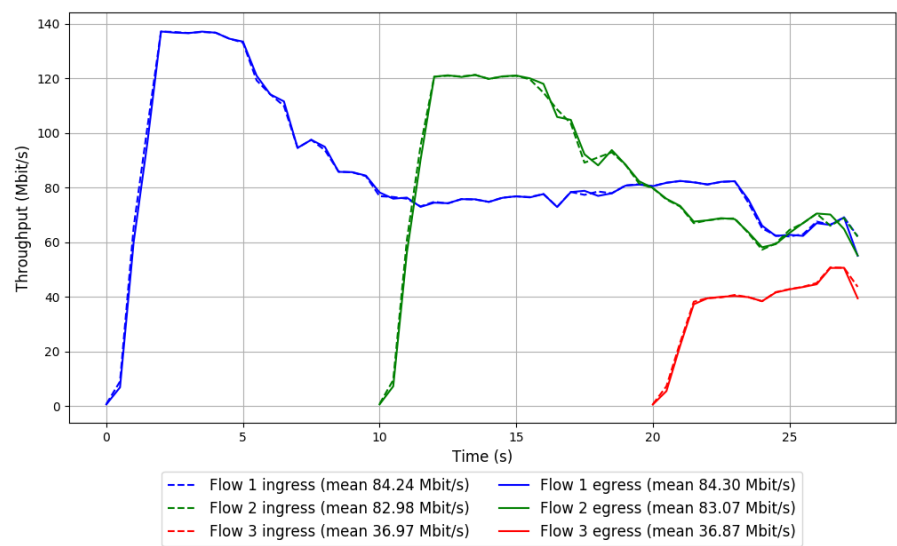
-- Flow 3:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 51.185 ms

Loss rate: 1.60%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 17:05:40

End at: 2018-01-26 17:06:10

Below is generated by plot.py at 2018-01-26 22:03:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.60 Mbit/s

95th percentile per-packet one-way delay: 50.850 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 50.853 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.55%

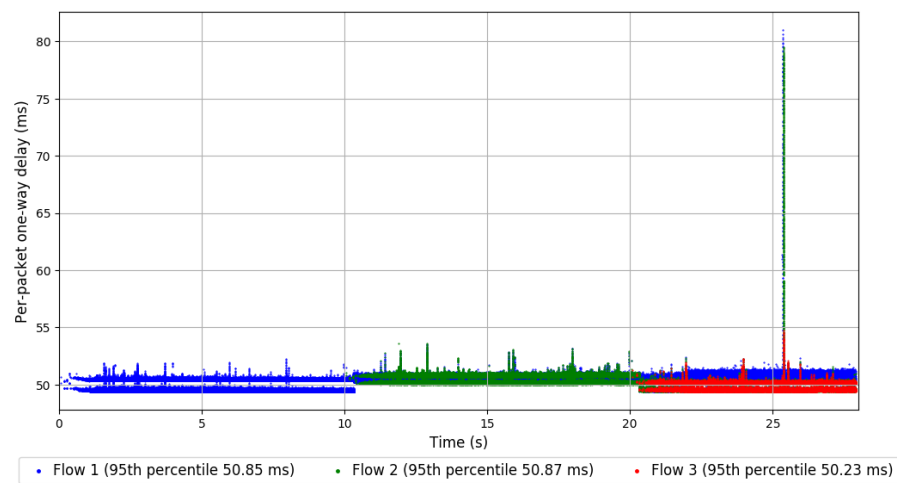
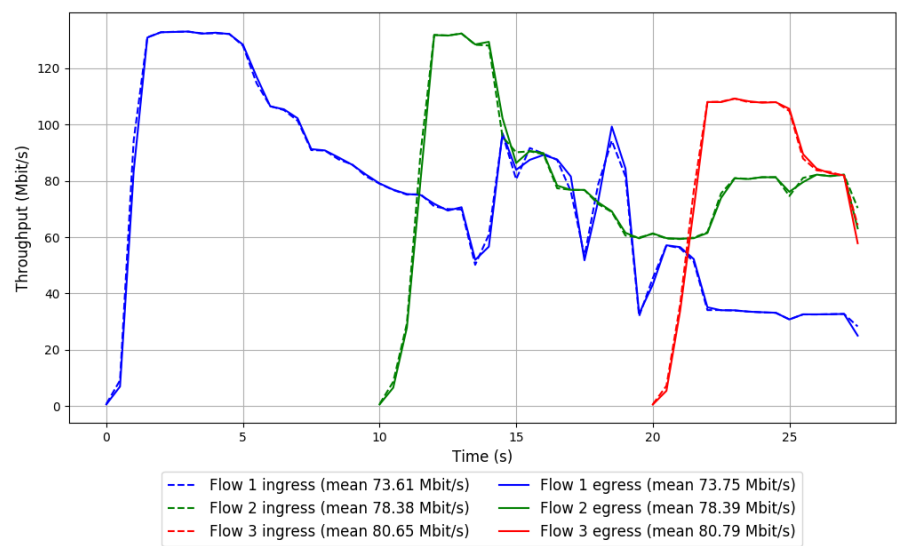
-- Flow 3:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 50.228 ms

Loss rate: 1.14%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 17:20:03

End at: 2018-01-26 17:20:33

Below is generated by plot.py at 2018-01-26 22:04:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.76 Mbit/s

95th percentile per-packet one-way delay: 50.802 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 50.839 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 70.74 Mbit/s

95th percentile per-packet one-way delay: 50.726 ms

Loss rate: 0.52%

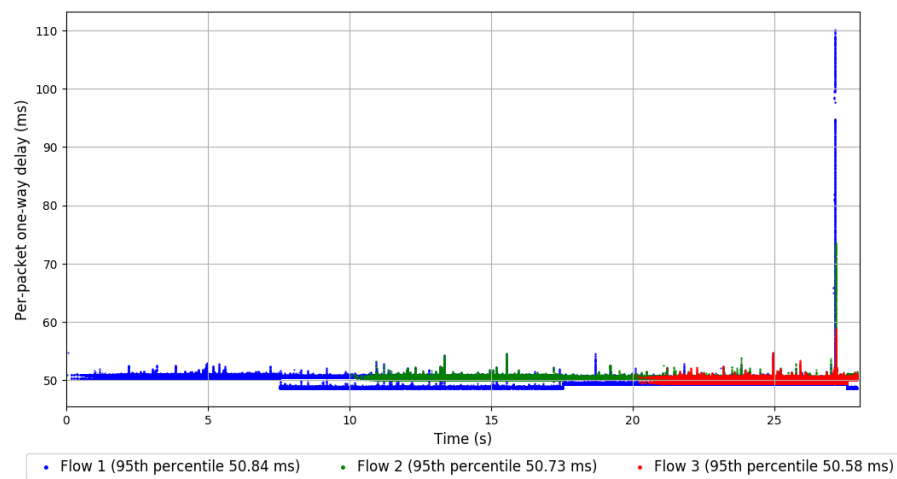
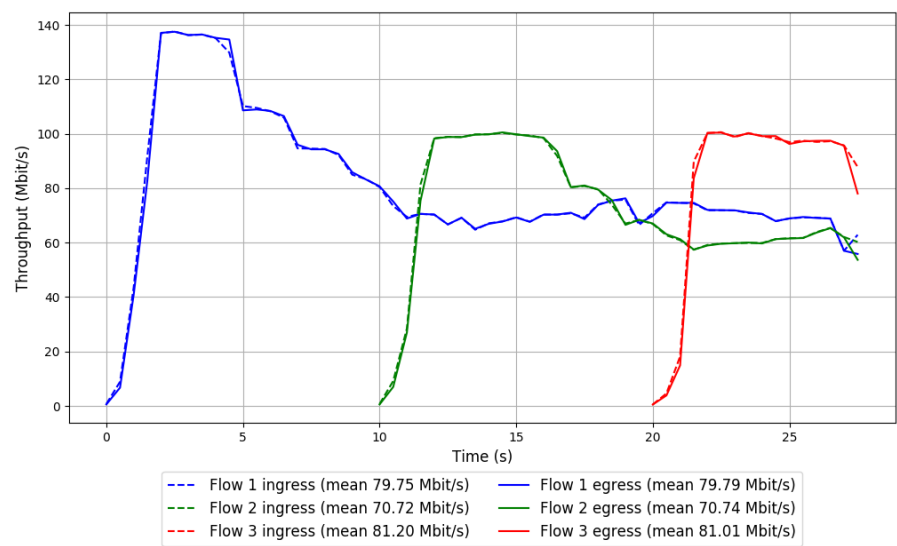
-- Flow 3:

Average throughput: 81.01 Mbit/s

95th percentile per-packet one-way delay: 50.578 ms

Loss rate: 1.52%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 17:34:35

End at: 2018-01-26 17:35:05

Below is generated by plot.py at 2018-01-26 22:04:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.34 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 79.45 Mbit/s

95th percentile per-packet one-way delay: 50.602 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 71.99 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.54%

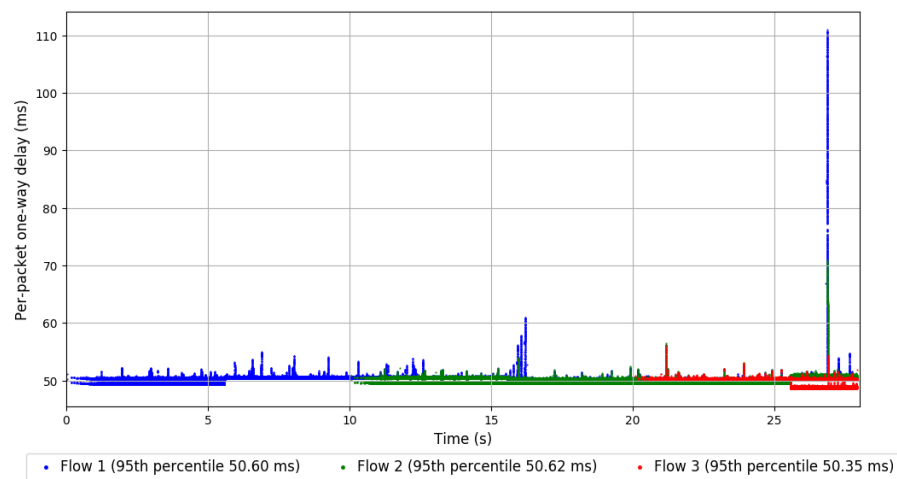
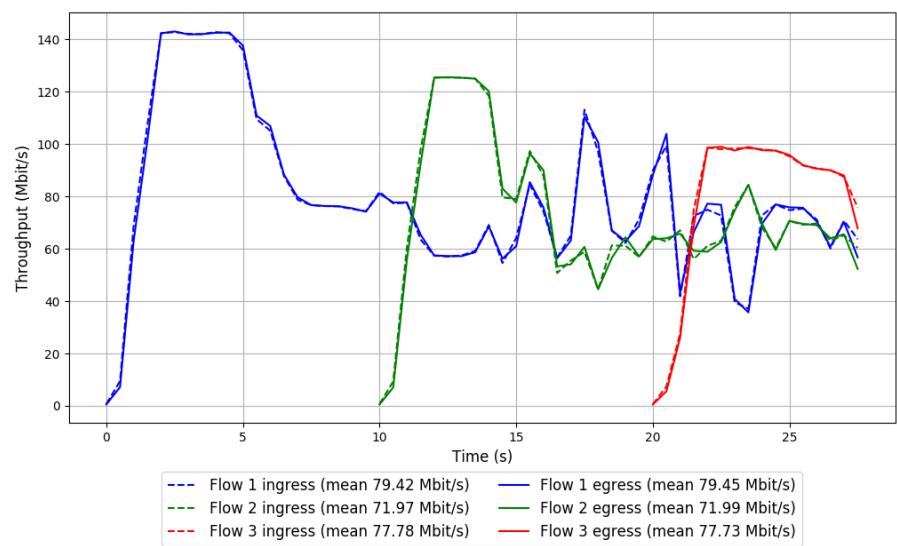
-- Flow 3:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 50.355 ms

Loss rate: 1.34%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 17:48:48

End at: 2018-01-26 17:49:18

Below is generated by plot.py at 2018-01-26 22:04:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.73 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 50.726 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 67.15 Mbit/s

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

Loss rate: 0.58%

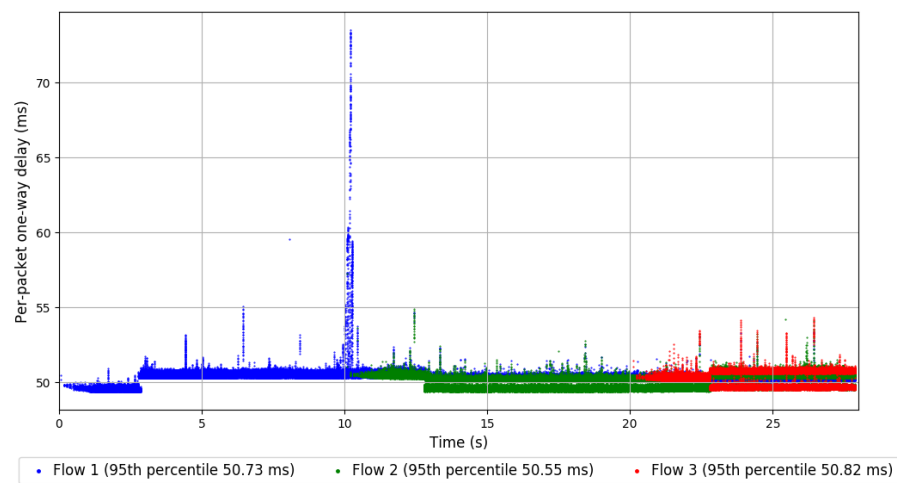
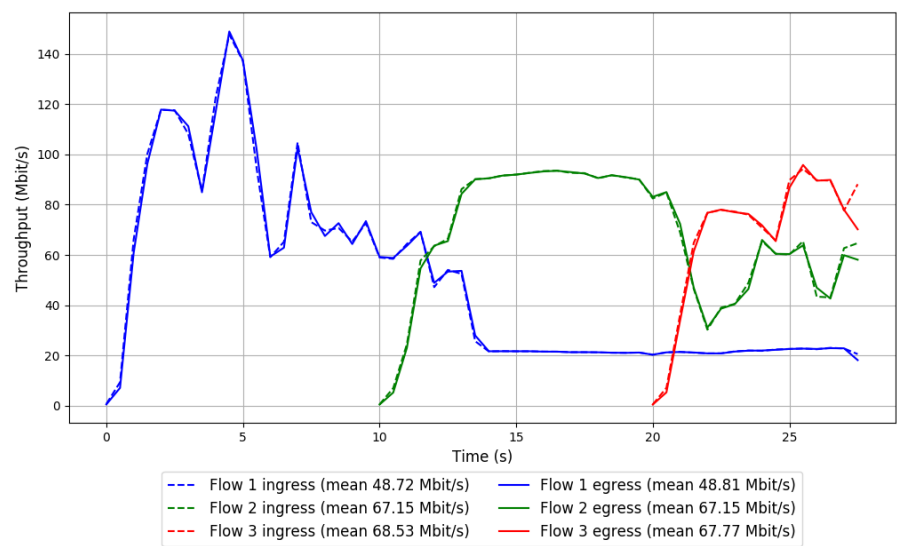
-- Flow 3:

Average throughput: 67.77 Mbit/s

95th percentile per-packet one-way delay: 50.816 ms

Loss rate: 2.39%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 18:03:12

End at: 2018-01-26 18:03:42

Below is generated by plot.py at 2018-01-26 22:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.13 Mbit/s

95th percentile per-packet one-way delay: 50.651 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 50.432 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 66.43 Mbit/s

95th percentile per-packet one-way delay: 50.769 ms

Loss rate: 0.57%

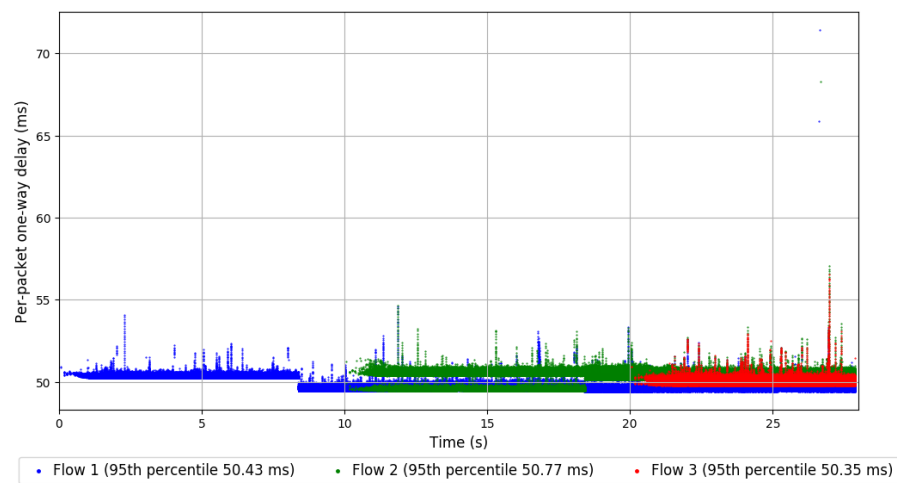
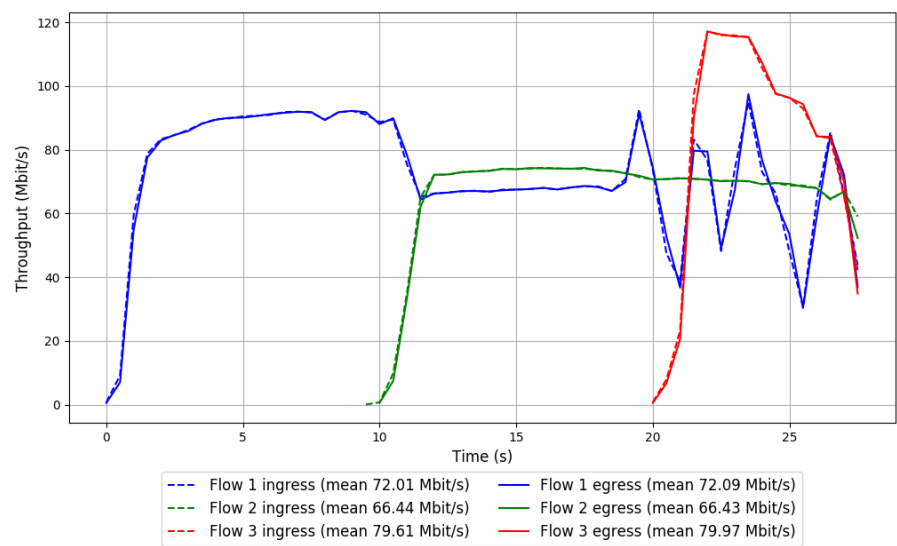
-- Flow 3:

Average throughput: 79.97 Mbit/s

95th percentile per-packet one-way delay: 50.355 ms

Loss rate: 0.83%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 18:17:38

End at: 2018-01-26 18:18:08

Below is generated by plot.py at 2018-01-26 22:05:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.80 Mbit/s

95th percentile per-packet one-way delay: 50.829 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 70.69 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 50.860 ms

Loss rate: 0.40%

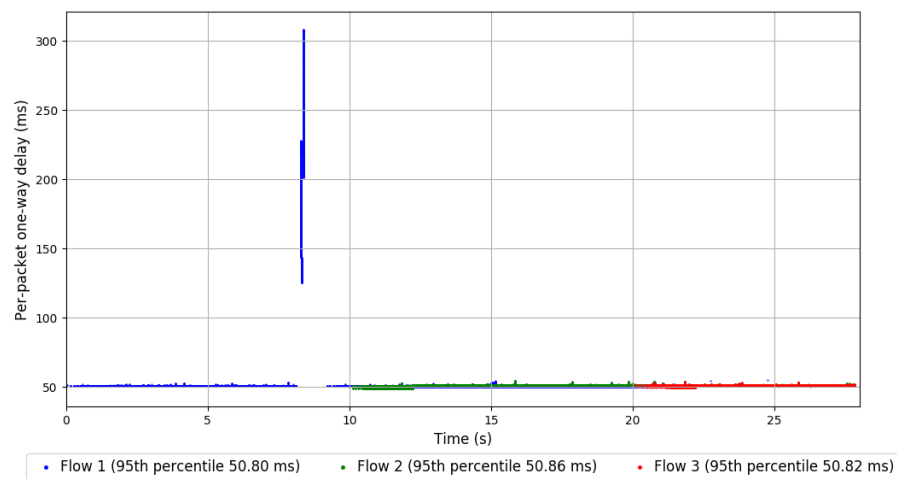
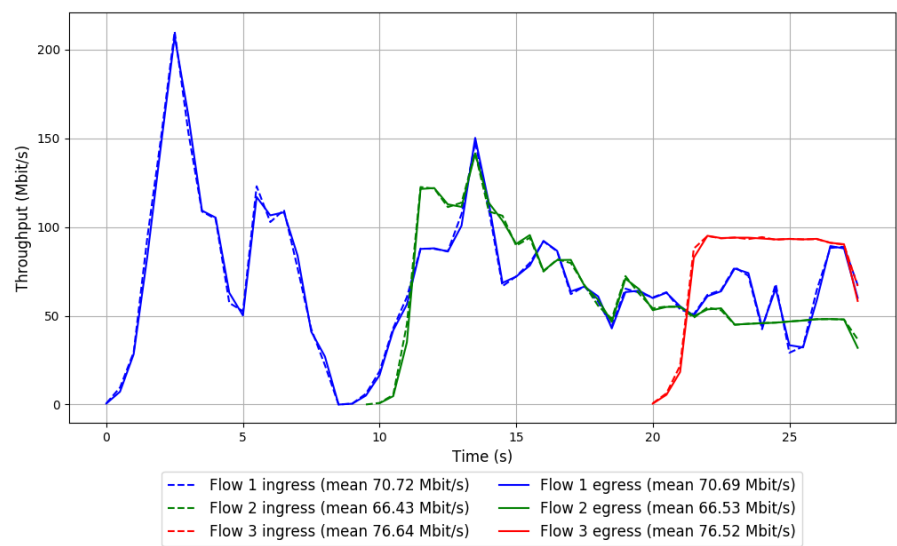
-- Flow 3:

Average throughput: 76.52 Mbit/s

95th percentile per-packet one-way delay: 50.824 ms

Loss rate: 1.44%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 18:31:59

End at: 2018-01-26 18:32:29

Below is generated by plot.py at 2018-01-26 22:05:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.33 Mbit/s

95th percentile per-packet one-way delay: 50.800 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 50.541 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 60.72 Mbit/s

95th percentile per-packet one-way delay: 50.950 ms

Loss rate: 0.23%

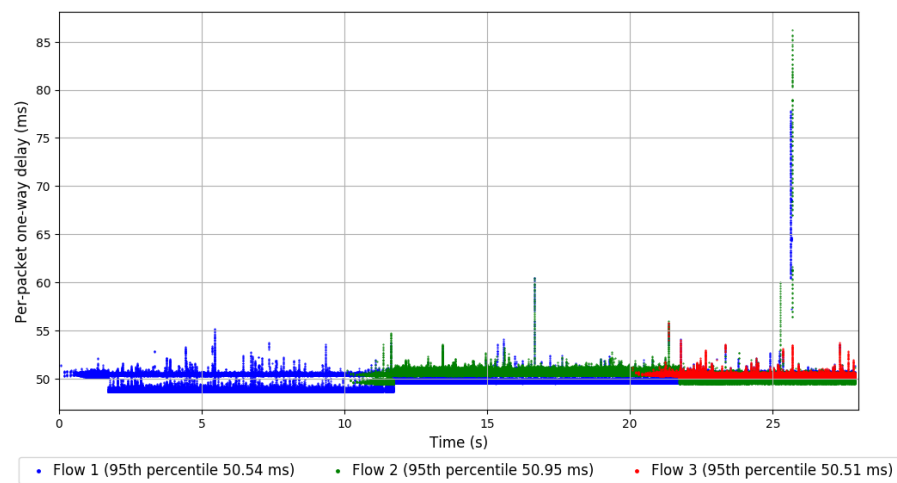
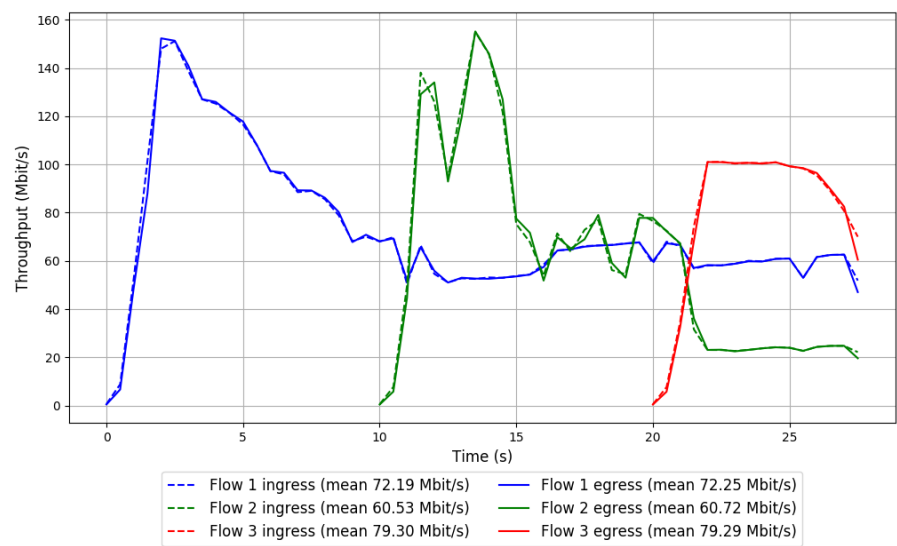
-- Flow 3:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 1.28%

Run 10: Report of Copa — Data Link

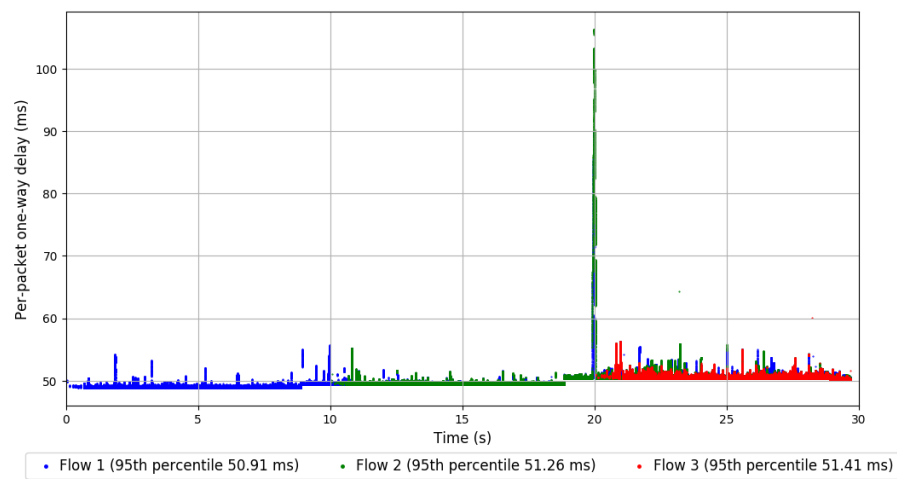
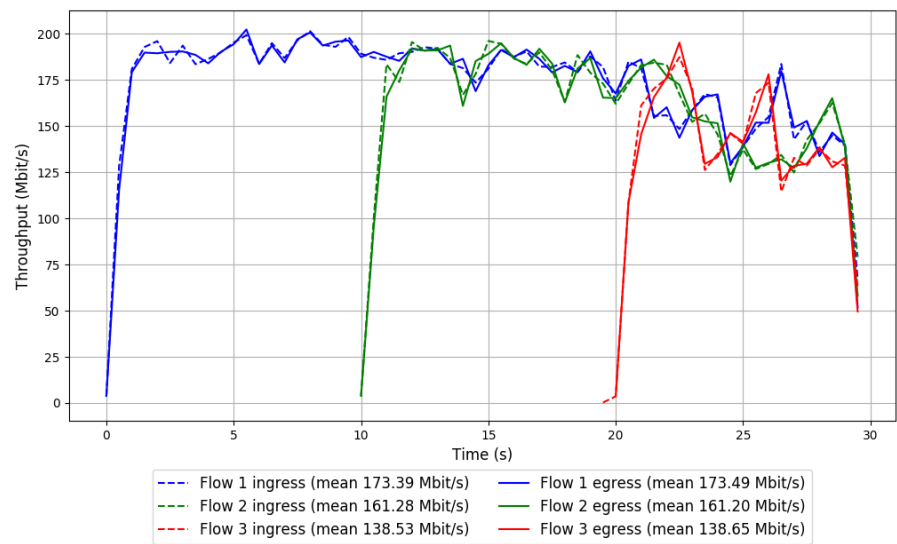


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 16:15:33
End at: 2018-01-26 16:16:03

# Below is generated by plot.py at 2018-01-26 22:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.39 Mbit/s
95th percentile per-packet one-way delay: 51.100 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 173.49 Mbit/s
95th percentile per-packet one-way delay: 50.905 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 161.20 Mbit/s
95th percentile per-packet one-way delay: 51.258 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 138.65 Mbit/s
95th percentile per-packet one-way delay: 51.410 ms
Loss rate: 0.93%
```


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



Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 16:29:59

End at: 2018-01-26 16:30:29

Below is generated by plot.py at 2018-01-26 22:09:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.97 Mbit/s

95th percentile per-packet one-way delay: 50.936 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 173.51 Mbit/s

95th percentile per-packet one-way delay: 50.657 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 162.42 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.46%

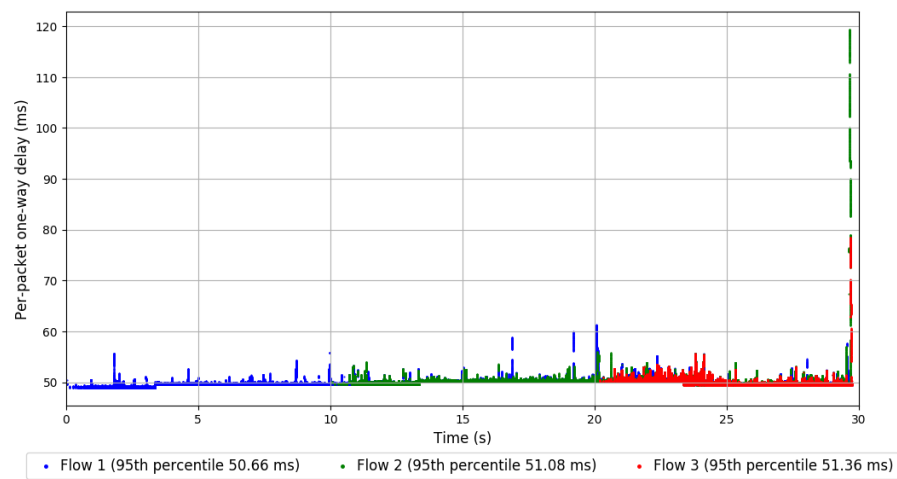
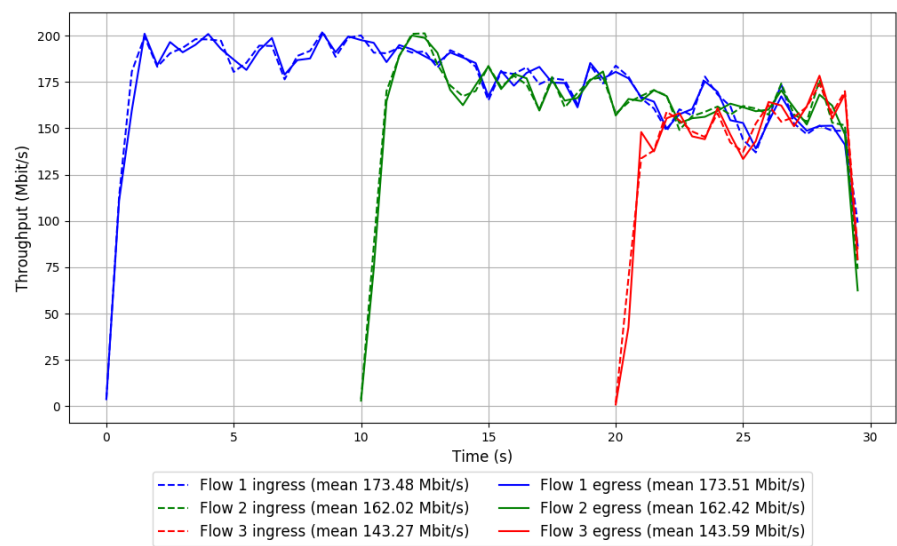
-- Flow 3:

Average throughput: 143.59 Mbit/s

95th percentile per-packet one-way delay: 51.356 ms

Loss rate: 0.83%

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



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 16:44:23

End at: 2018-01-26 16:44:53

Below is generated by plot.py at 2018-01-26 22:09:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.39 Mbit/s

95th percentile per-packet one-way delay: 50.530 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 173.77 Mbit/s

95th percentile per-packet one-way delay: 50.543 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 160.82 Mbit/s

95th percentile per-packet one-way delay: 50.400 ms

Loss rate: 0.39%

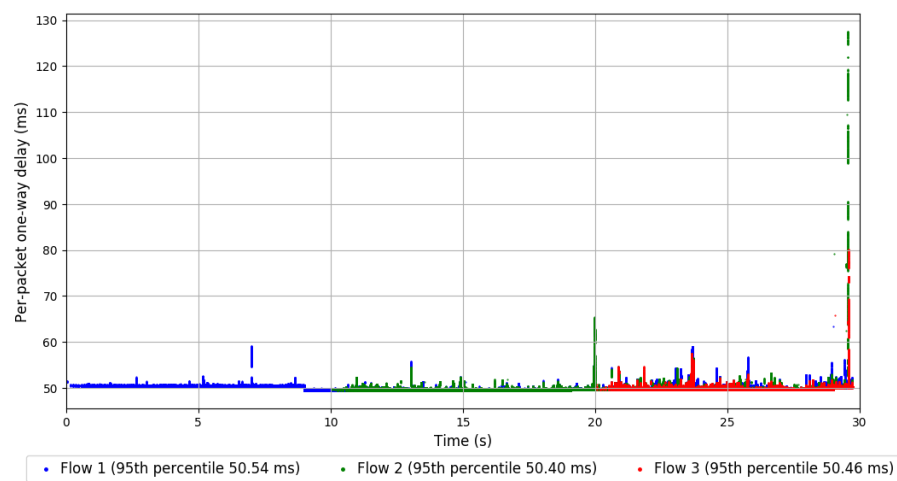
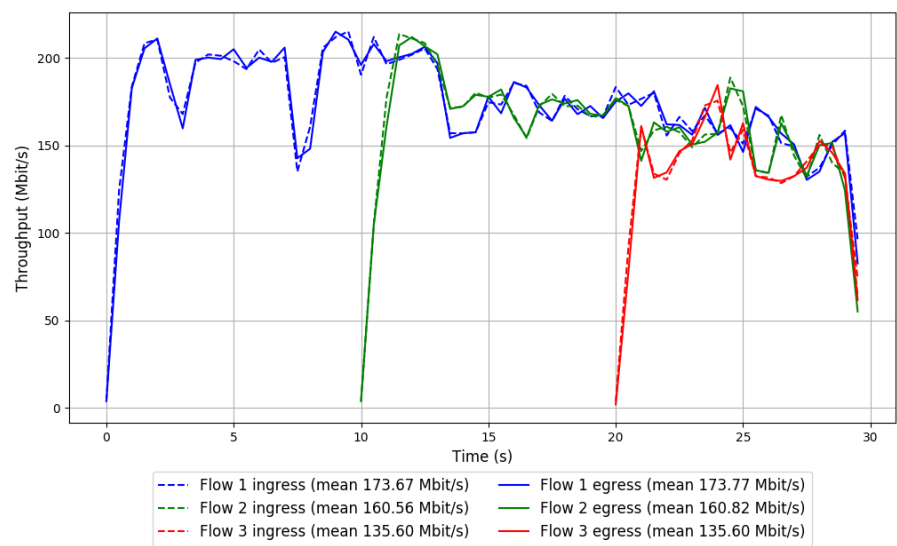
-- Flow 3:

Average throughput: 135.60 Mbit/s

95th percentile per-packet one-way delay: 50.459 ms

Loss rate: 1.04%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 16:58:58

End at: 2018-01-26 16:59:28

Below is generated by plot.py at 2018-01-26 22:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.50 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 169.55 Mbit/s

95th percentile per-packet one-way delay: 50.586 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 152.54 Mbit/s

95th percentile per-packet one-way delay: 50.579 ms

Loss rate: 0.53%

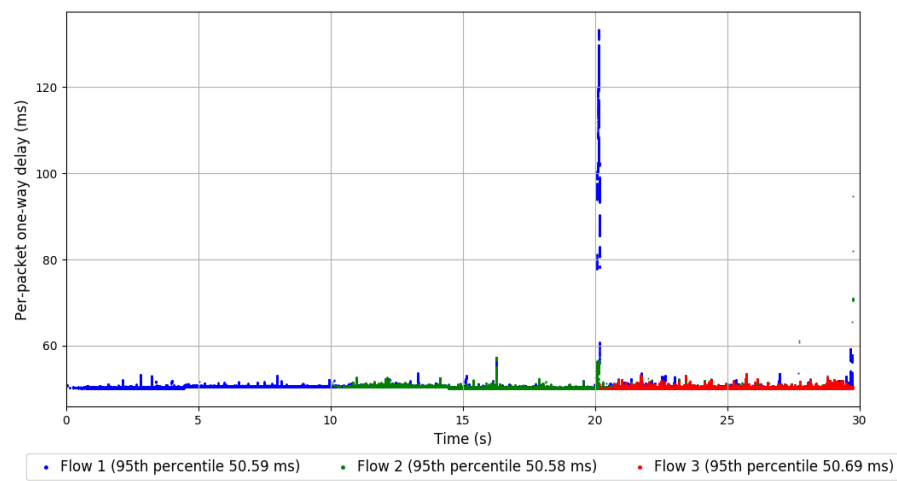
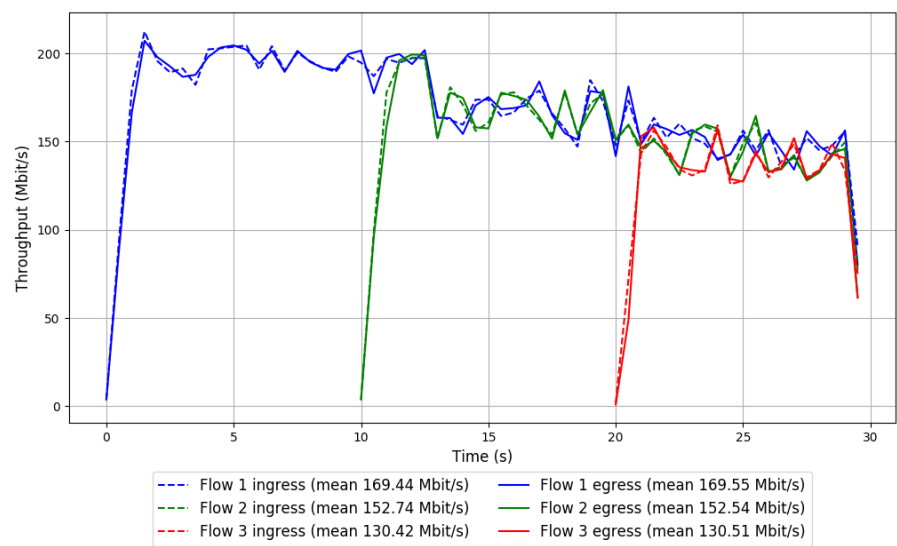
-- Flow 3:

Average throughput: 130.51 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 1.04%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 17:13:28

End at: 2018-01-26 17:13:58

Below is generated by plot.py at 2018-01-26 22:10:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.85 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 180.26 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 176.89 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.50%

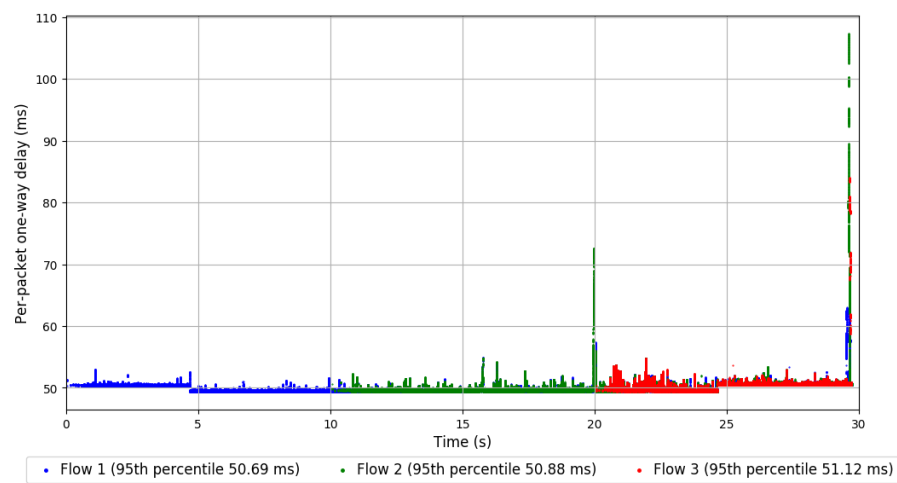
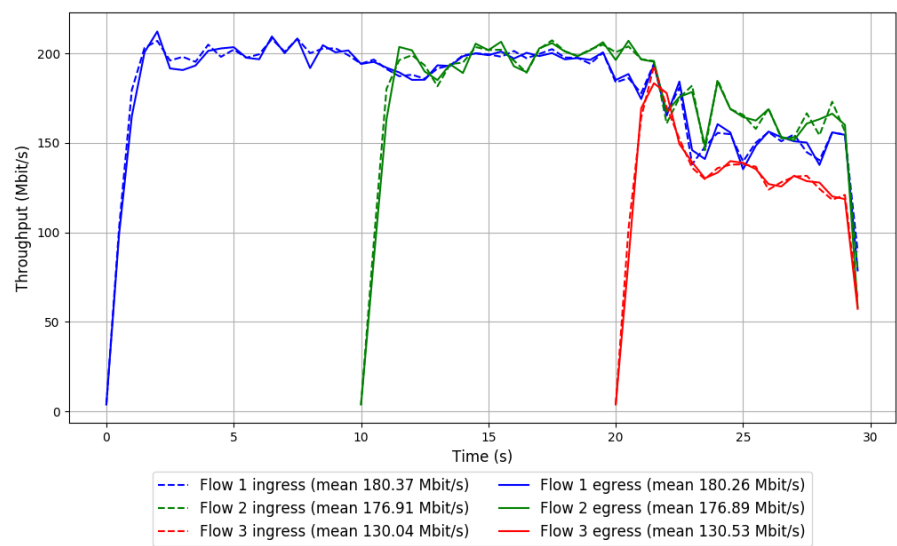
-- Flow 3:

Average throughput: 130.53 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.72%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 17:28:00

End at: 2018-01-26 17:28:30

Below is generated by plot.py at 2018-01-26 22:10:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.91 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 170.08 Mbit/s

95th percentile per-packet one-way delay: 51.006 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 146.85 Mbit/s

95th percentile per-packet one-way delay: 51.126 ms

Loss rate: 0.34%

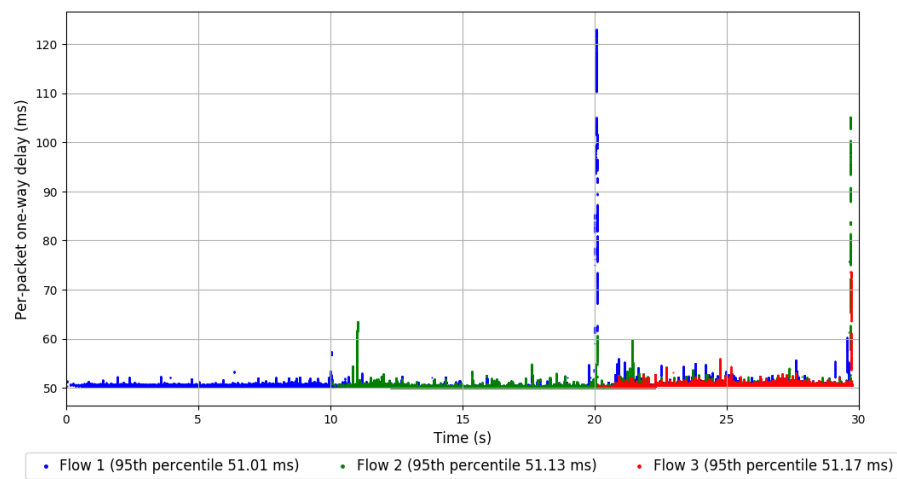
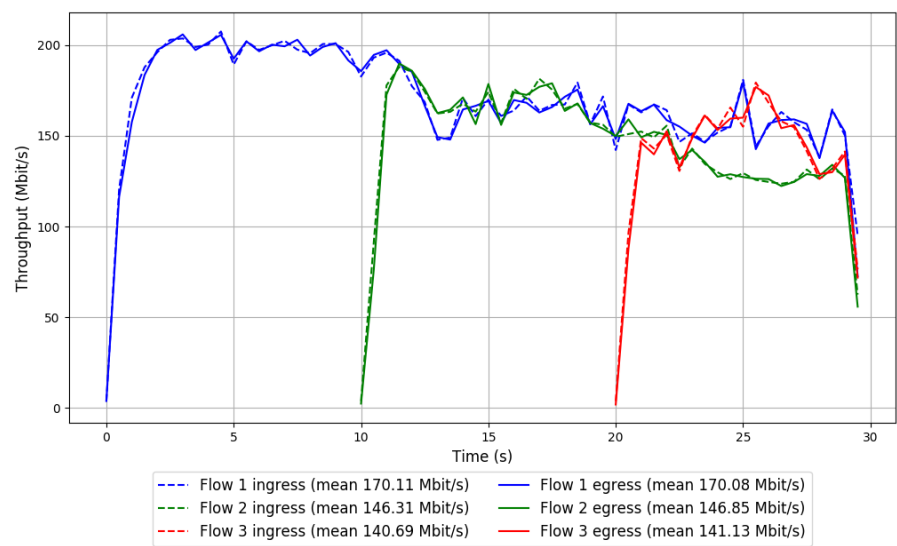
-- Flow 3:

Average throughput: 141.13 Mbit/s

95th percentile per-packet one-way delay: 51.169 ms

Loss rate: 0.75%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 17:42:14

End at: 2018-01-26 17:42:44

Below is generated by plot.py at 2018-01-26 22:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.73 Mbit/s

95th percentile per-packet one-way delay: 51.051 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 156.60 Mbit/s

95th percentile per-packet one-way delay: 50.898 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 158.08 Mbit/s

95th percentile per-packet one-way delay: 51.319 ms

Loss rate: 0.46%

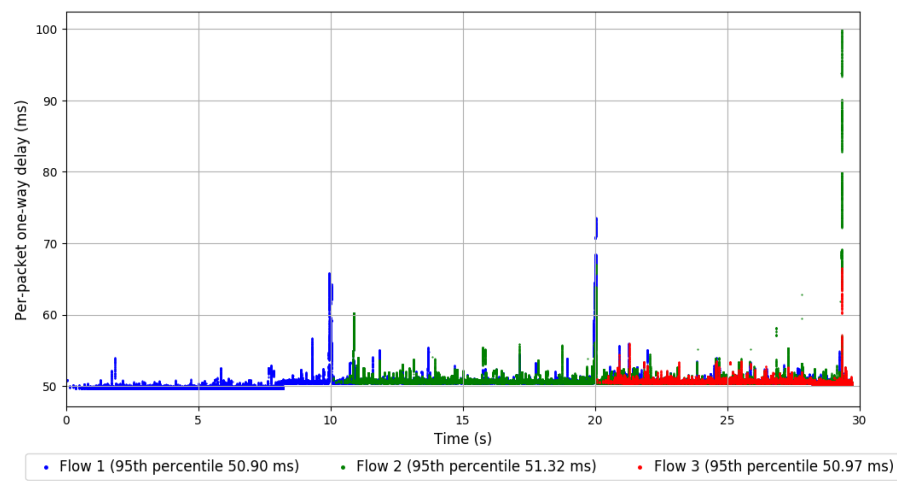
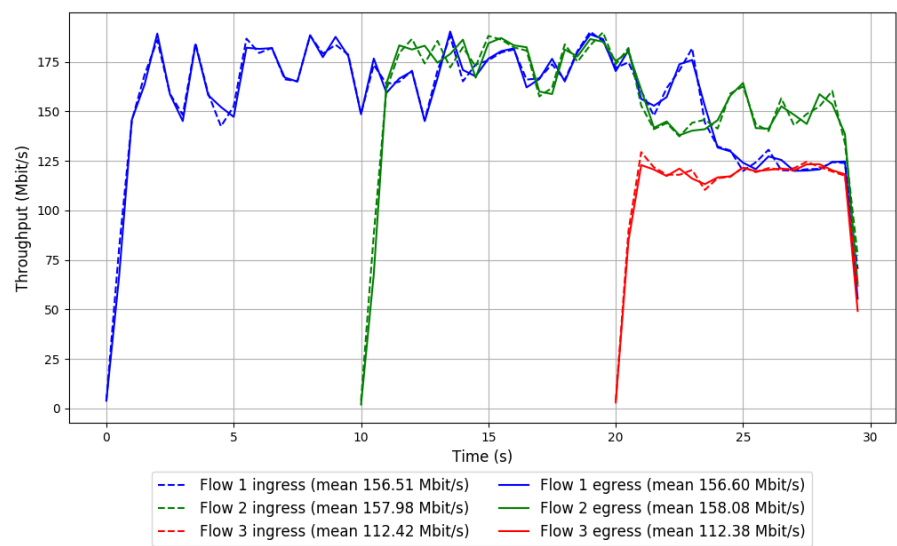
-- Flow 3:

Average throughput: 112.38 Mbit/s

95th percentile per-packet one-way delay: 50.973 ms

Loss rate: 1.08%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 17:56:34

End at: 2018-01-26 17:57:04

Below is generated by plot.py at 2018-01-26 22:11:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.68 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 167.15 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 155.43 Mbit/s

95th percentile per-packet one-way delay: 50.618 ms

Loss rate: 0.51%

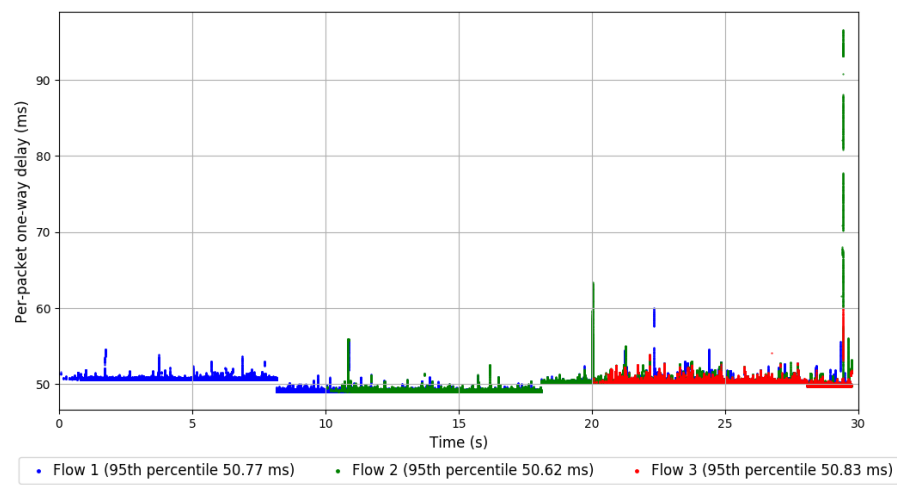
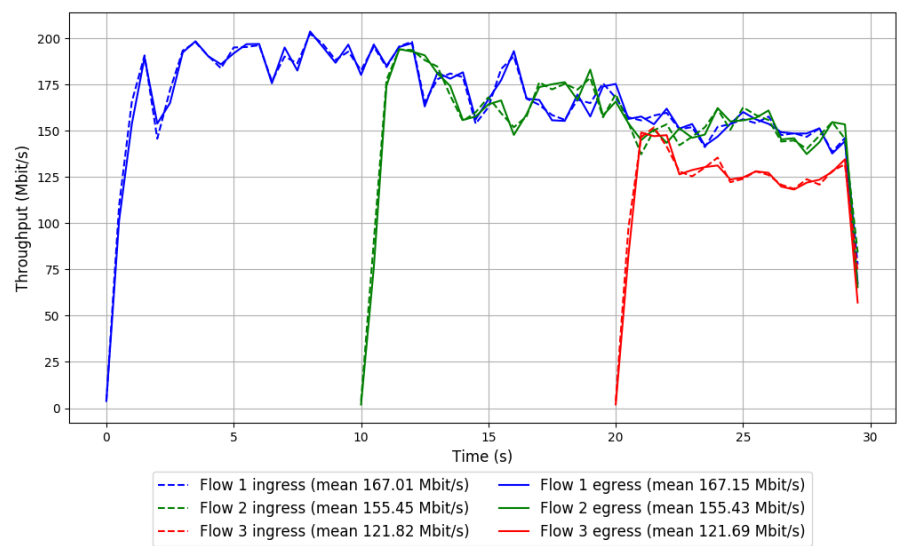
-- Flow 3:

Average throughput: 121.69 Mbit/s

95th percentile per-packet one-way delay: 50.826 ms

Loss rate: 1.12%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 18:11:02

End at: 2018-01-26 18:11:32

Below is generated by plot.py at 2018-01-26 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.94 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 165.99 Mbit/s

95th percentile per-packet one-way delay: 50.758 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 155.37 Mbit/s

95th percentile per-packet one-way delay: 50.845 ms

Loss rate: 0.52%

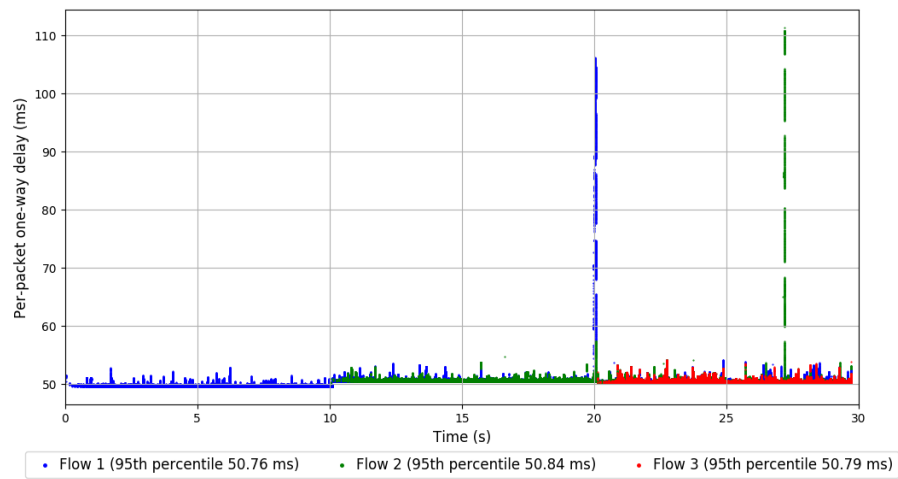
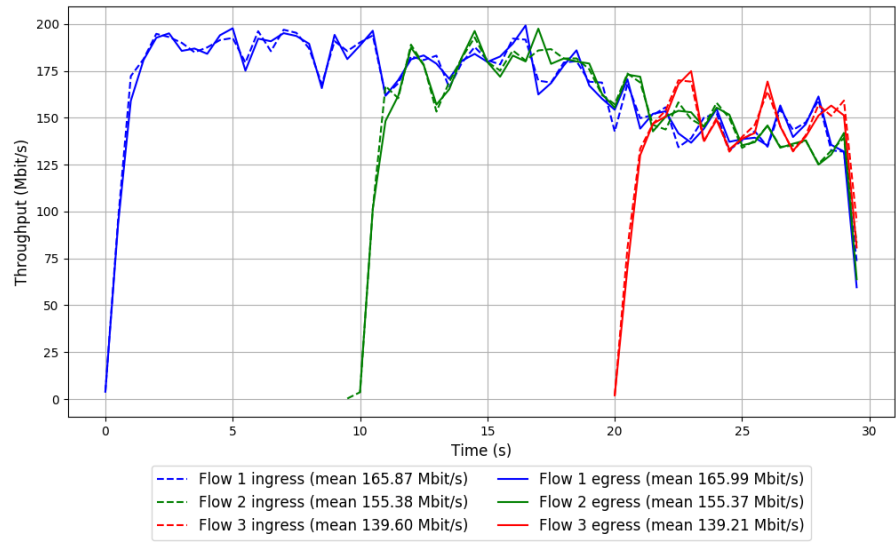
-- Flow 3:

Average throughput: 139.21 Mbit/s

95th percentile per-packet one-way delay: 50.790 ms

Loss rate: 1.31%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 18:25:30

End at: 2018-01-26 18:26:00

Below is generated by plot.py at 2018-01-26 22:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.12 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 152.48 Mbit/s

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

Loss rate: 0.27%

-- Flow 2:

Average throughput: 144.83 Mbit/s

95th percentile per-packet one-way delay: 50.617 ms

Loss rate: 0.47%

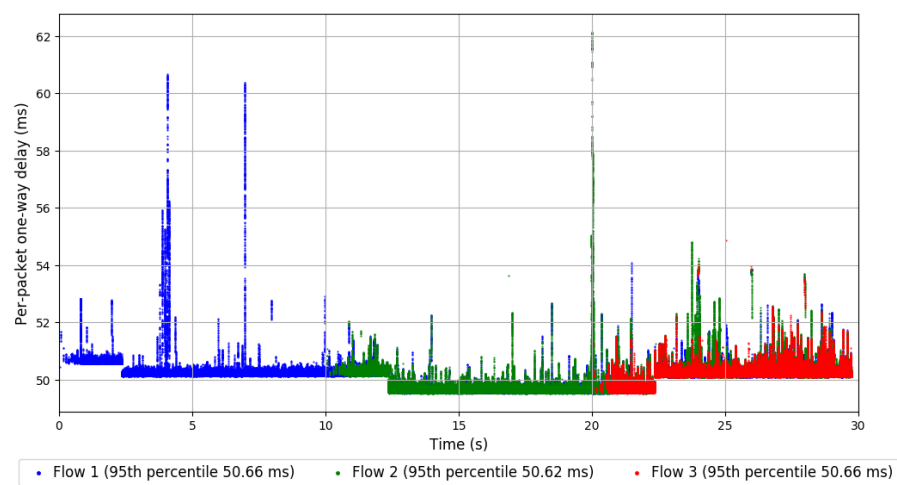
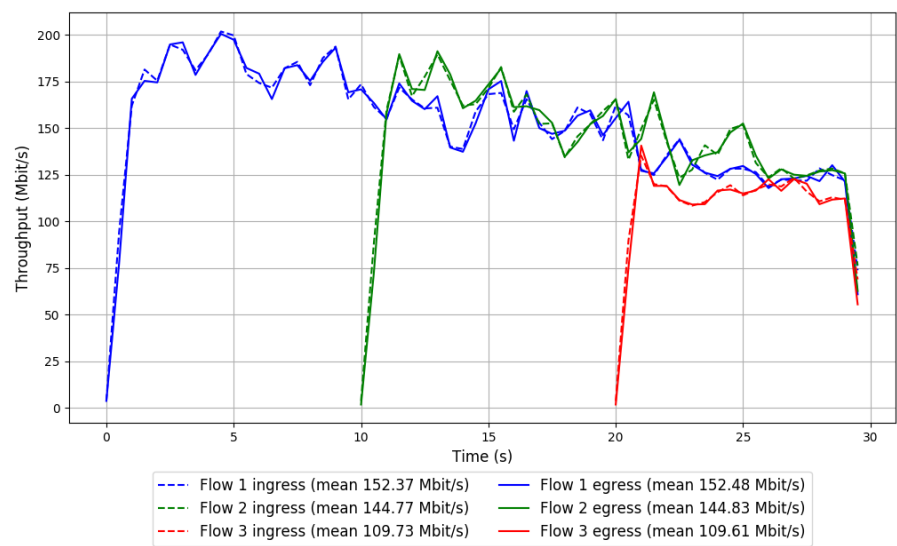
-- Flow 3:

Average throughput: 109.61 Mbit/s

95th percentile per-packet one-way delay: 50.663 ms

Loss rate: 1.14%

Run 10: Report of Indigo-2-256 — Data Link

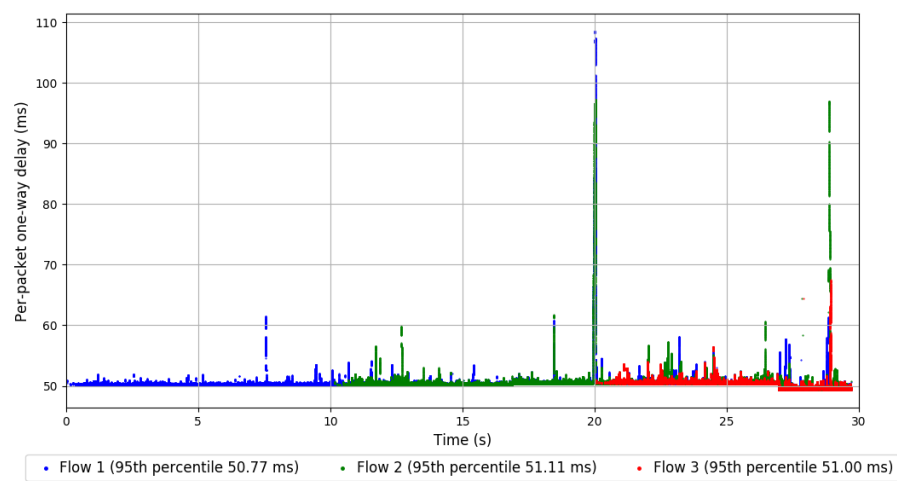
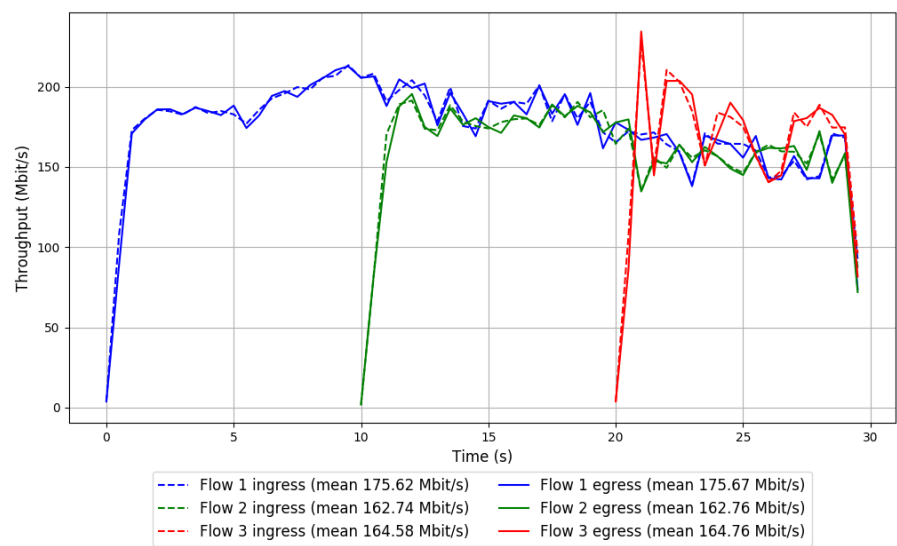


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 16:13:25
End at: 2018-01-26 16:13:55

# Below is generated by plot.py at 2018-01-26 22:15:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.63 Mbit/s
95th percentile per-packet one-way delay: 50.920 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 175.67 Mbit/s
95th percentile per-packet one-way delay: 50.774 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 162.76 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 164.76 Mbit/s
95th percentile per-packet one-way delay: 50.999 ms
Loss rate: 0.94%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 16:27:53

End at: 2018-01-26 16:28:23

Below is generated by plot.py at 2018-01-26 22:15:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.53 Mbit/s

95th percentile per-packet one-way delay: 56.583 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 170.58 Mbit/s

95th percentile per-packet one-way delay: 55.139 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 156.39 Mbit/s

95th percentile per-packet one-way delay: 57.242 ms

Loss rate: 0.52%

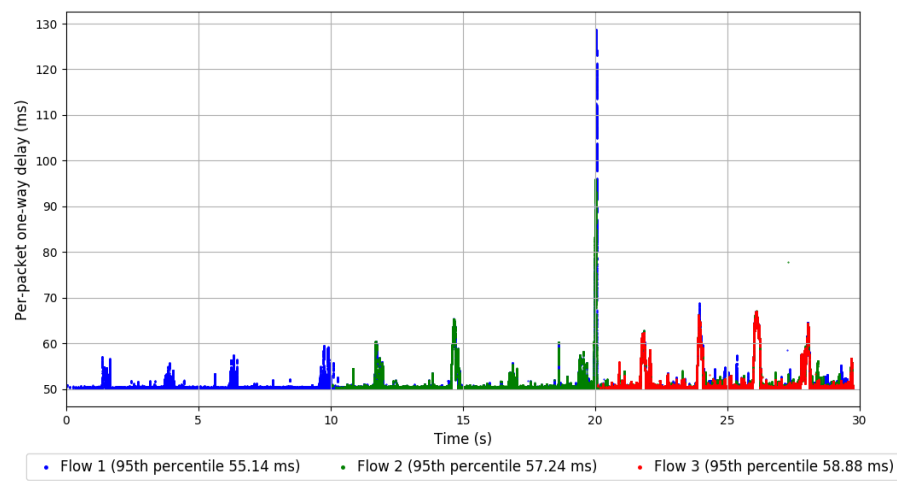
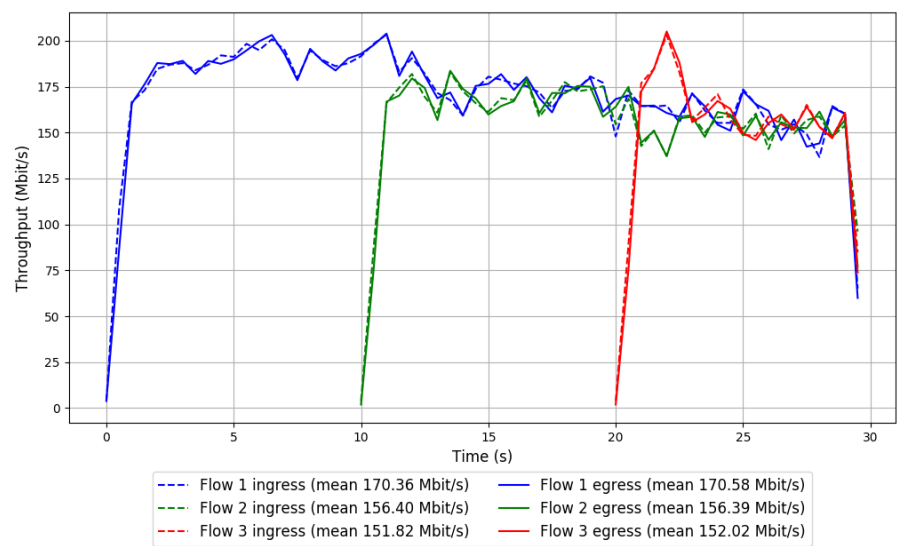
-- Flow 3:

Average throughput: 152.02 Mbit/s

95th percentile per-packet one-way delay: 58.883 ms

Loss rate: 0.90%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 16:42:17

End at: 2018-01-26 16:42:47

Below is generated by plot.py at 2018-01-26 22:15:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.79 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 173.21 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 164.27 Mbit/s

95th percentile per-packet one-way delay: 51.126 ms

Loss rate: 0.48%

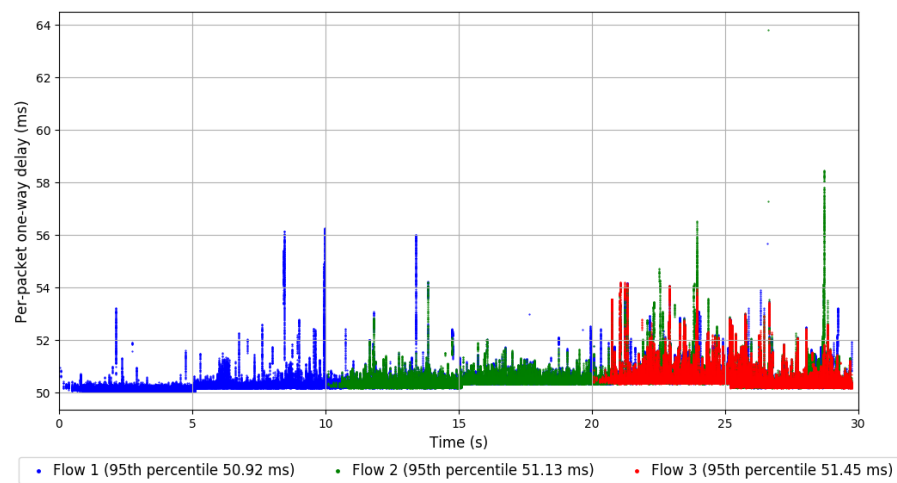
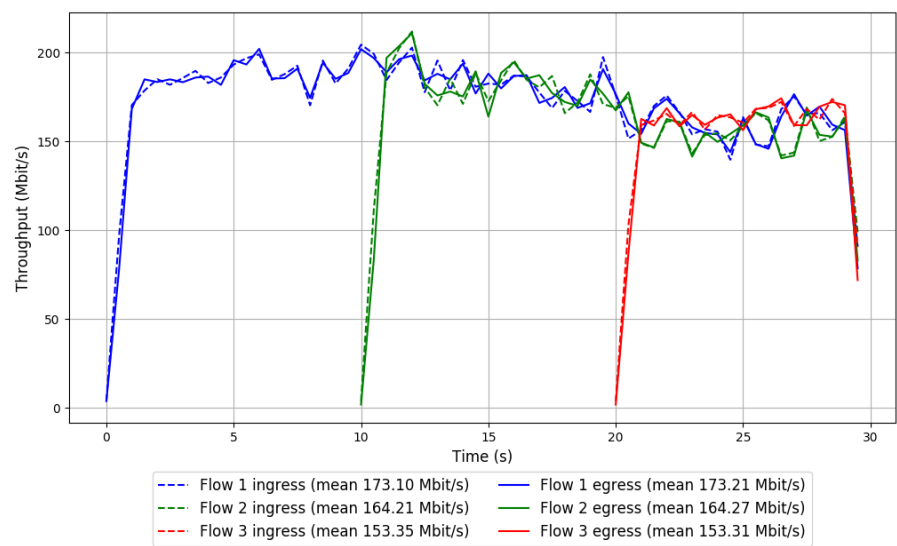
-- Flow 3:

Average throughput: 153.31 Mbit/s

95th percentile per-packet one-way delay: 51.449 ms

Loss rate: 1.08%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 16:56:50

End at: 2018-01-26 16:57:20

Below is generated by plot.py at 2018-01-26 22:16:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.69 Mbit/s

95th percentile per-packet one-way delay: 50.808 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 180.11 Mbit/s

95th percentile per-packet one-way delay: 50.603 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 164.97 Mbit/s

95th percentile per-packet one-way delay: 50.961 ms

Loss rate: 0.51%

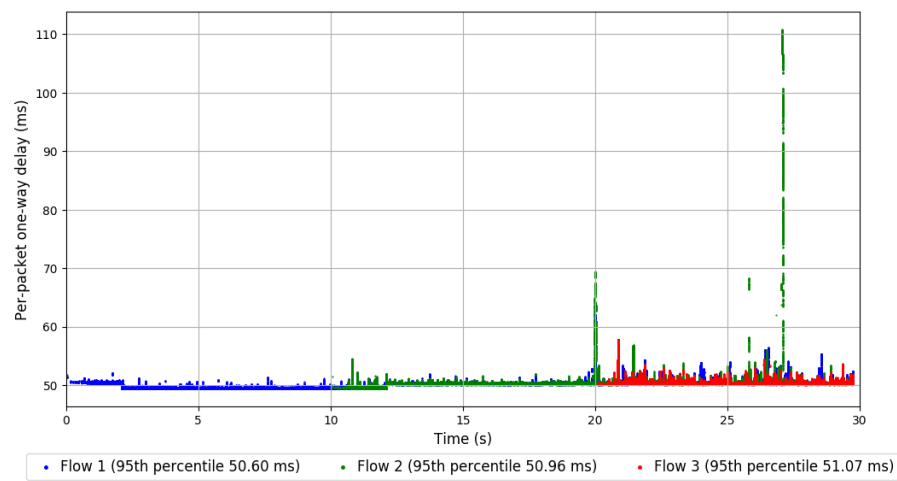
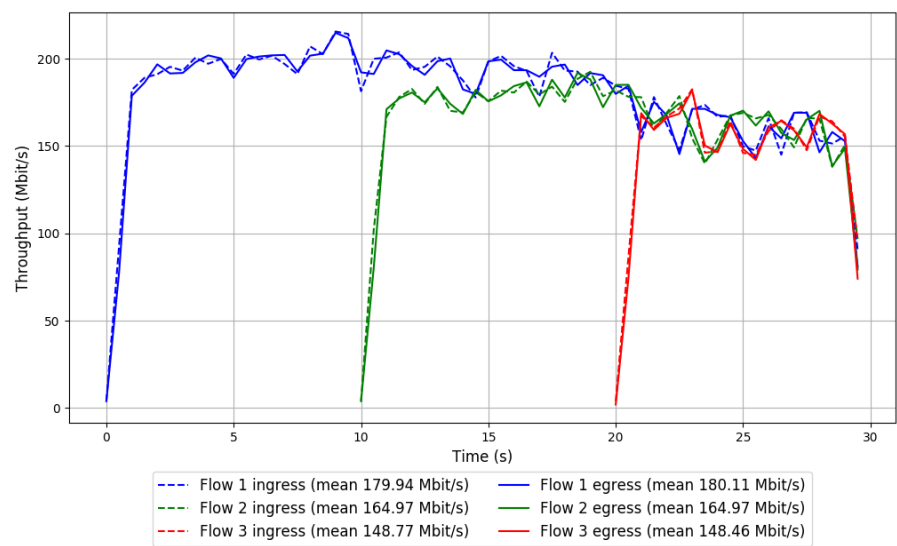
-- Flow 3:

Average throughput: 148.46 Mbit/s

95th percentile per-packet one-way delay: 51.071 ms

Loss rate: 1.19%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 17:11:19

End at: 2018-01-26 17:11:49

Below is generated by plot.py at 2018-01-26 22:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.58 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 184.09 Mbit/s

95th percentile per-packet one-way delay: 51.000 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 161.57 Mbit/s

95th percentile per-packet one-way delay: 51.287 ms

Loss rate: 0.48%

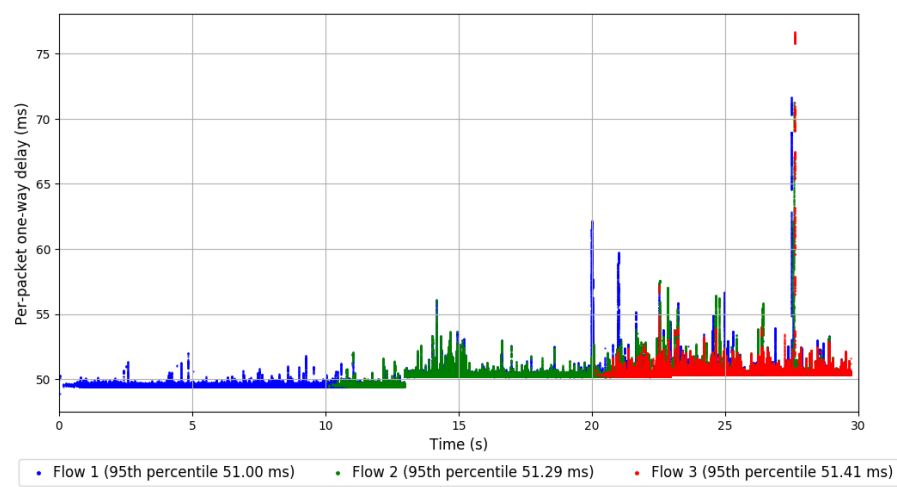
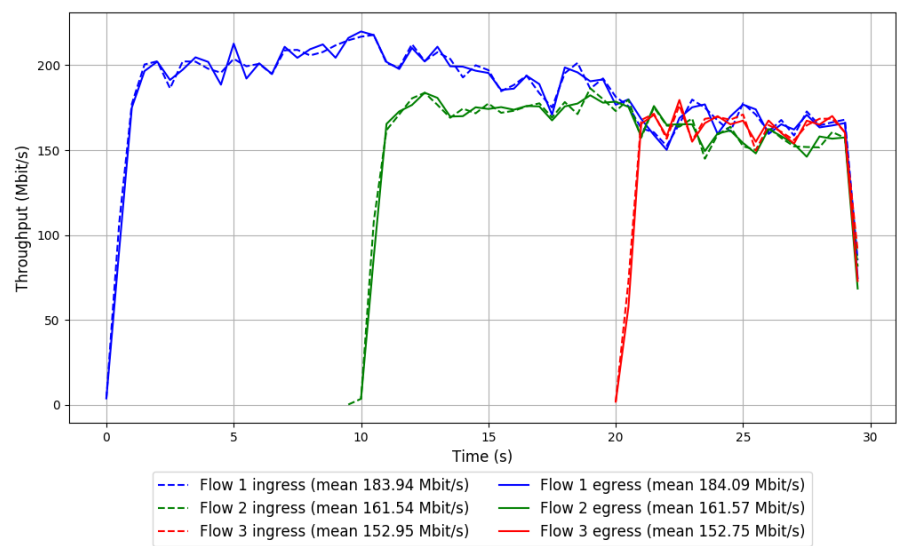
-- Flow 3:

Average throughput: 152.75 Mbit/s

95th percentile per-packet one-way delay: 51.414 ms

Loss rate: 1.17%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 17:25:55

End at: 2018-01-26 17:26:25

Below is generated by plot.py at 2018-01-26 22:17:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.42 Mbit/s

95th percentile per-packet one-way delay: 50.867 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 182.98 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 155.39 Mbit/s

95th percentile per-packet one-way delay: 50.960 ms

Loss rate: 0.52%

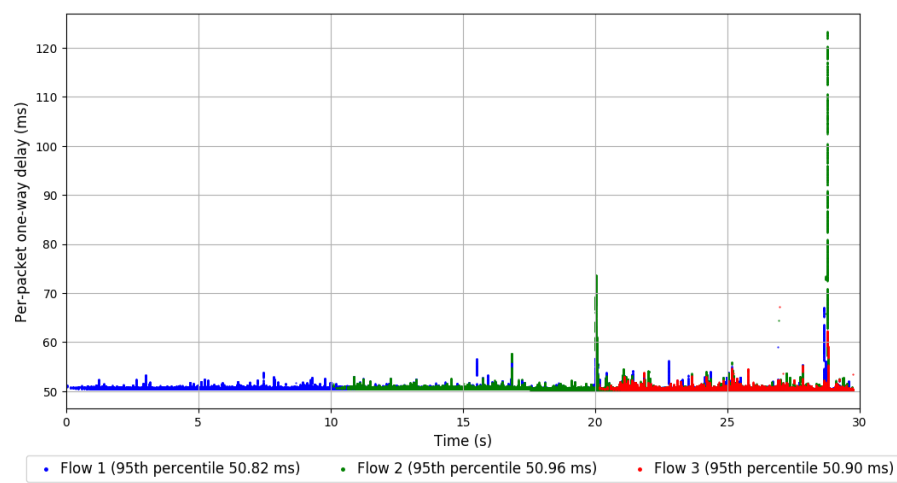
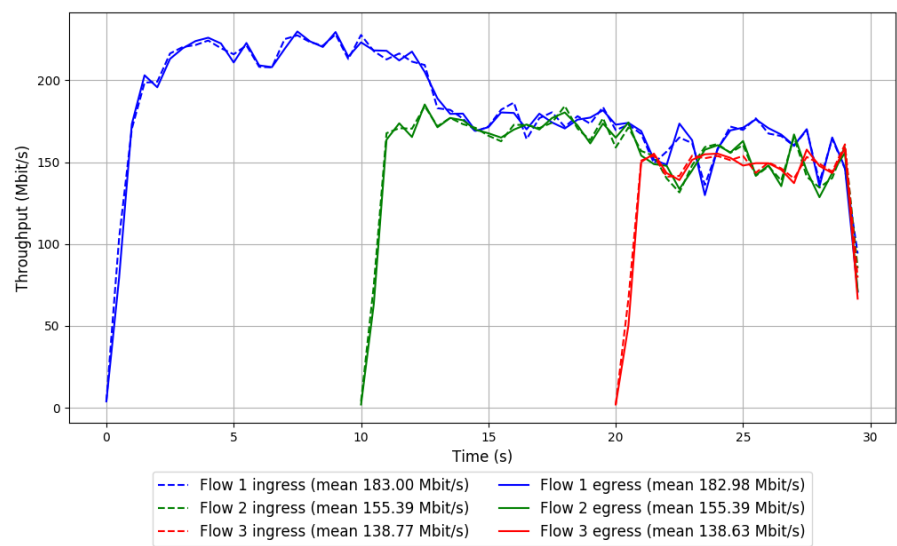
-- Flow 3:

Average throughput: 138.63 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 1.13%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 17:40:09

End at: 2018-01-26 17:40:39

Below is generated by plot.py at 2018-01-26 22:19:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.23 Mbit/s

95th percentile per-packet one-way delay: 51.048 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 160.41 Mbit/s

95th percentile per-packet one-way delay: 51.063 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 160.13 Mbit/s

95th percentile per-packet one-way delay: 51.112 ms

Loss rate: 0.43%

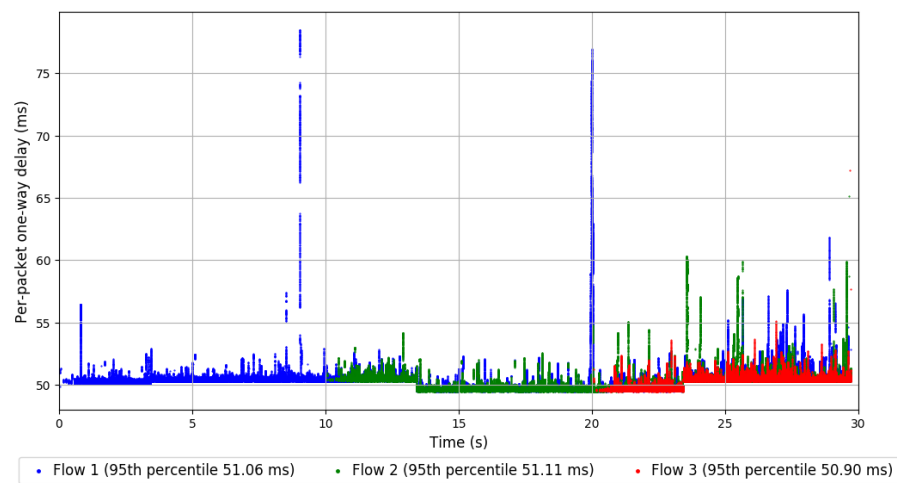
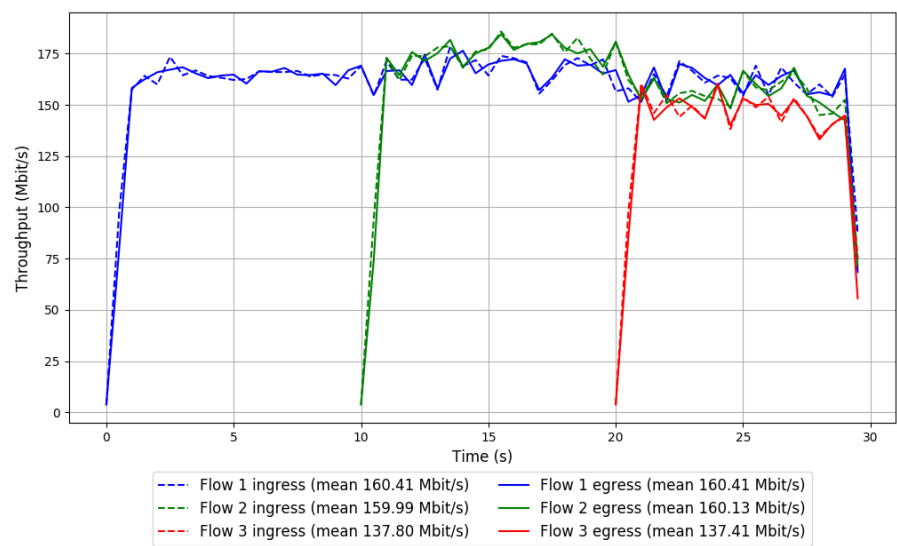
-- Flow 3:

Average throughput: 137.41 Mbit/s

95th percentile per-packet one-way delay: 50.900 ms

Loss rate: 1.26%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 17:54:29

End at: 2018-01-26 17:54:59

Below is generated by plot.py at 2018-01-26 22:19:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.29 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 165.38 Mbit/s

95th percentile per-packet one-way delay: 50.708 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 151.81 Mbit/s

95th percentile per-packet one-way delay: 50.831 ms

Loss rate: 0.51%

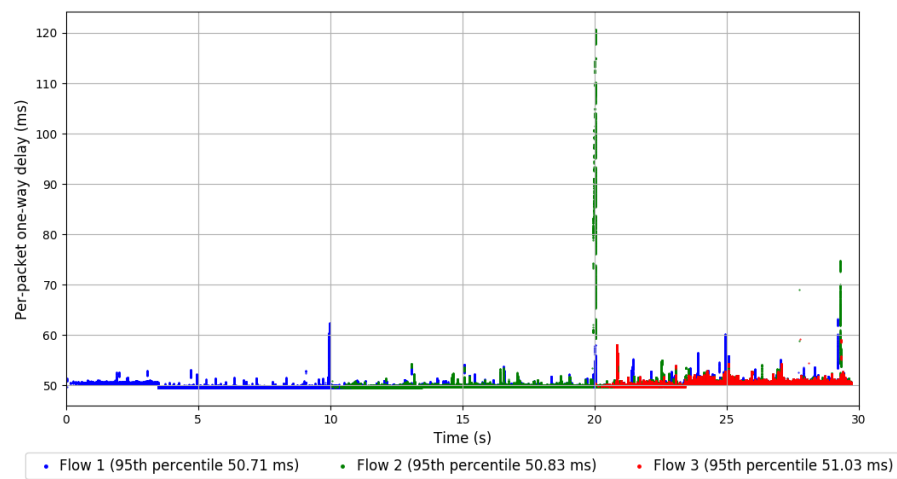
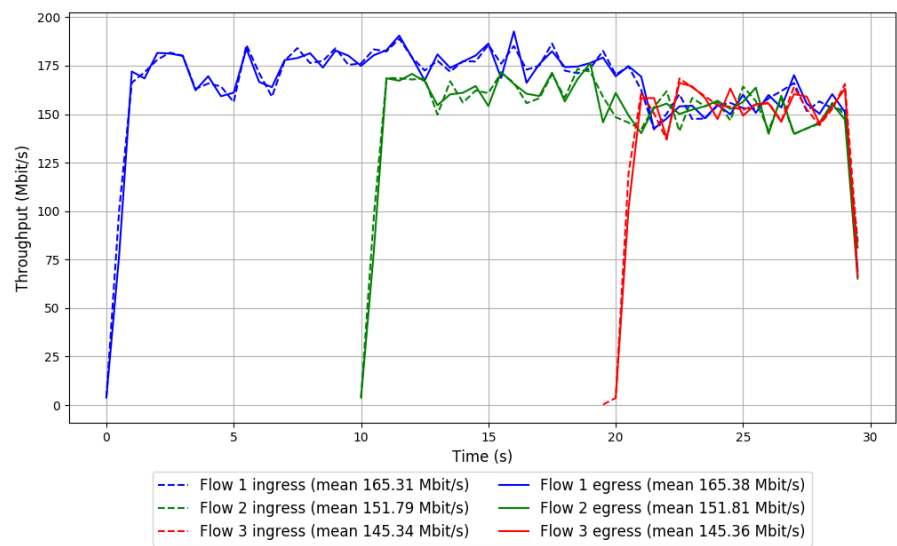
-- Flow 3:

Average throughput: 145.36 Mbit/s

95th percentile per-packet one-way delay: 51.034 ms

Loss rate: 1.01%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 18:09:00

End at: 2018-01-26 18:09:30

Below is generated by plot.py at 2018-01-26 22:21:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.17 Mbit/s

95th percentile per-packet one-way delay: 51.025 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 172.89 Mbit/s

95th percentile per-packet one-way delay: 50.739 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 157.45 Mbit/s

95th percentile per-packet one-way delay: 51.281 ms

Loss rate: 0.57%

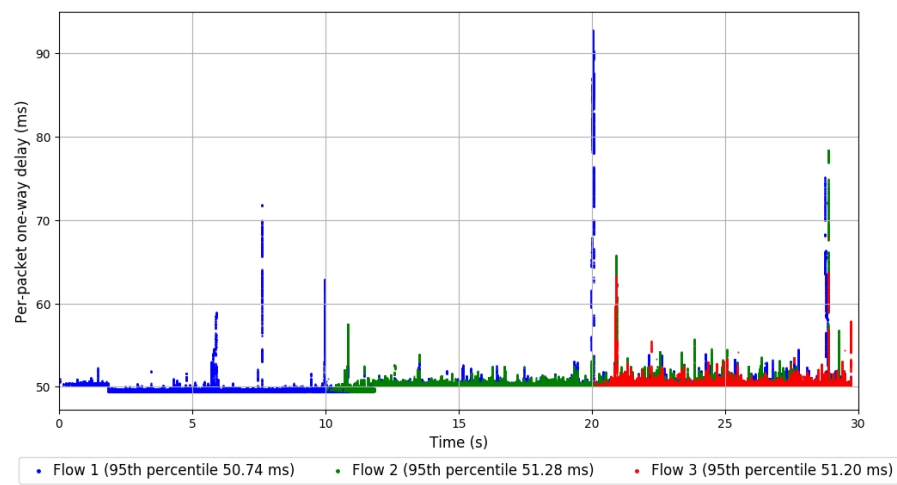
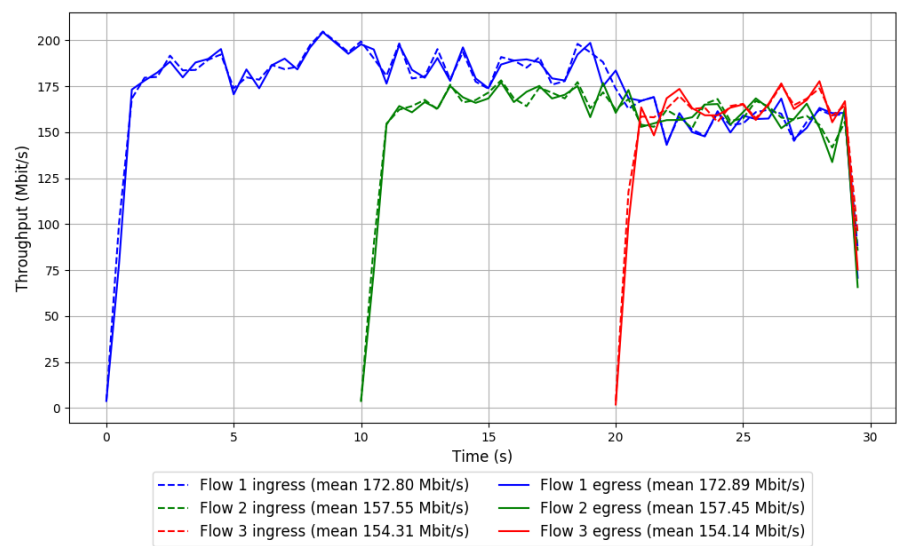
-- Flow 3:

Average throughput: 154.14 Mbit/s

95th percentile per-packet one-way delay: 51.199 ms

Loss rate: 1.17%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 18:23:23

End at: 2018-01-26 18:23:53

Below is generated by plot.py at 2018-01-26 22:21:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.10 Mbit/s

95th percentile per-packet one-way delay: 51.728 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 171.80 Mbit/s

95th percentile per-packet one-way delay: 51.402 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 162.48 Mbit/s

95th percentile per-packet one-way delay: 52.202 ms

Loss rate: 0.44%

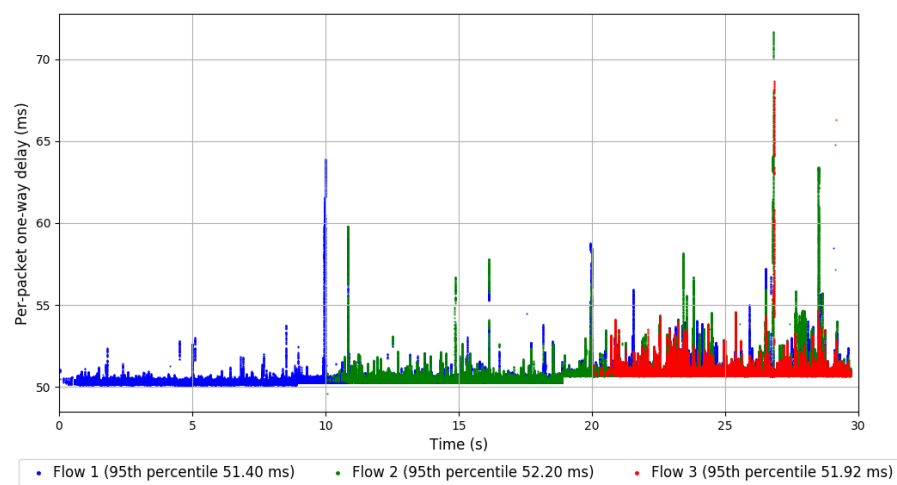
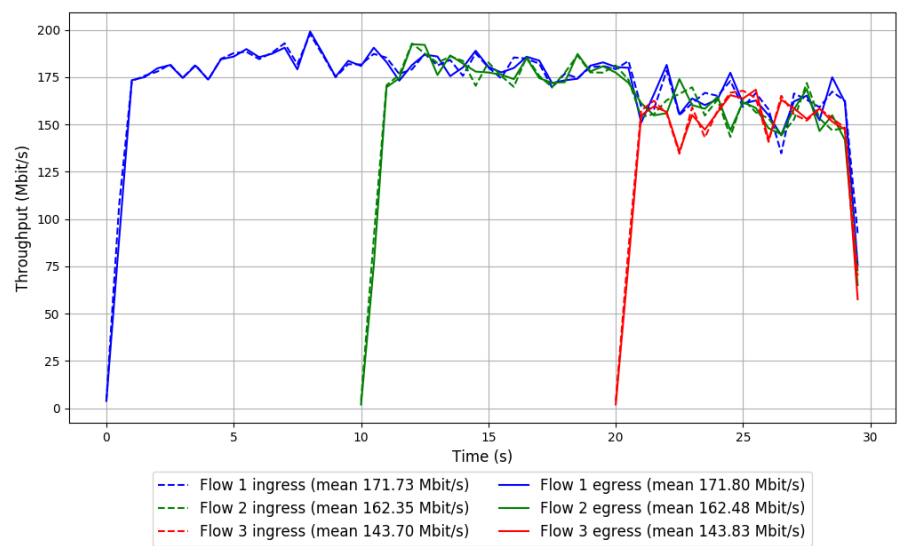
-- Flow 3:

Average throughput: 143.83 Mbit/s

95th percentile per-packet one-way delay: 51.916 ms

Loss rate: 0.97%

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

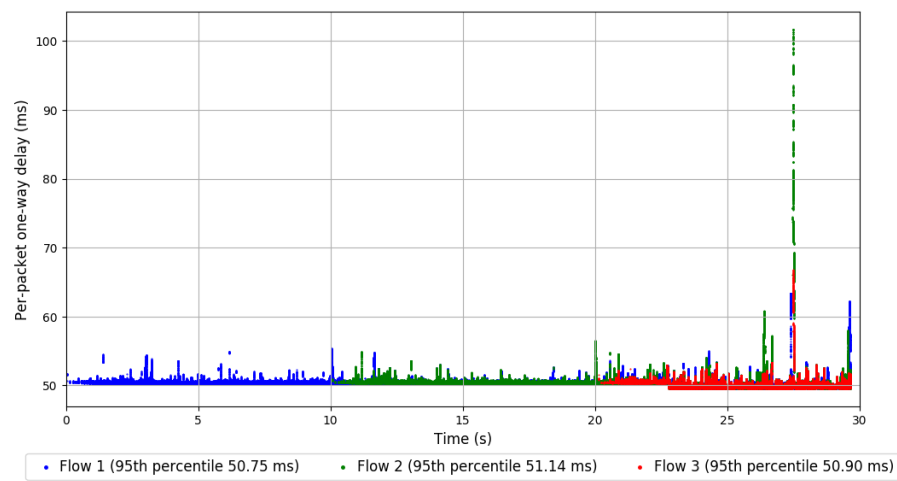
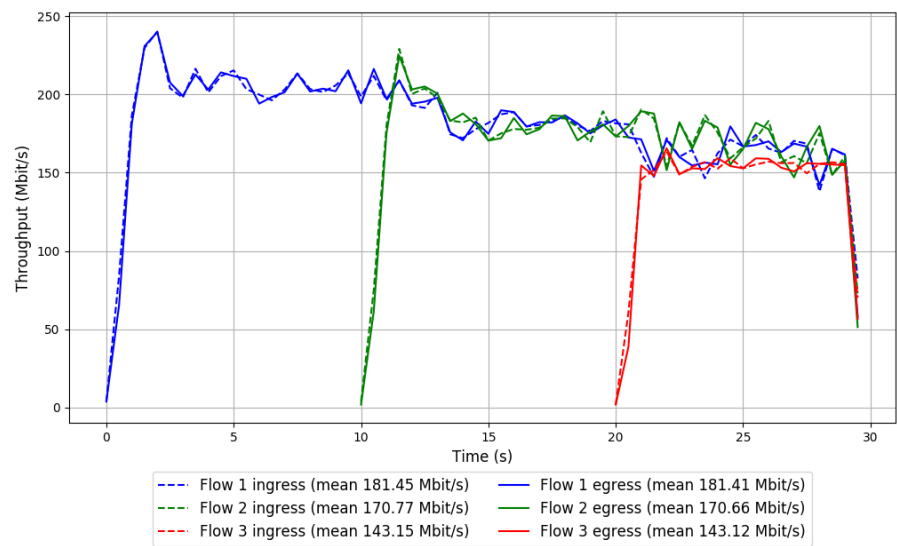


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 16:14:29
End at: 2018-01-26 16:14:59

# Below is generated by plot.py at 2018-01-26 22:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.32 Mbit/s
95th percentile per-packet one-way delay: 50.874 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 181.41 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 170.66 Mbit/s
95th percentile per-packet one-way delay: 51.140 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 143.12 Mbit/s
95th percentile per-packet one-way delay: 50.897 ms
Loss rate: 1.08%
```


Run 1: Report of Indigo-1-128 — Data Link

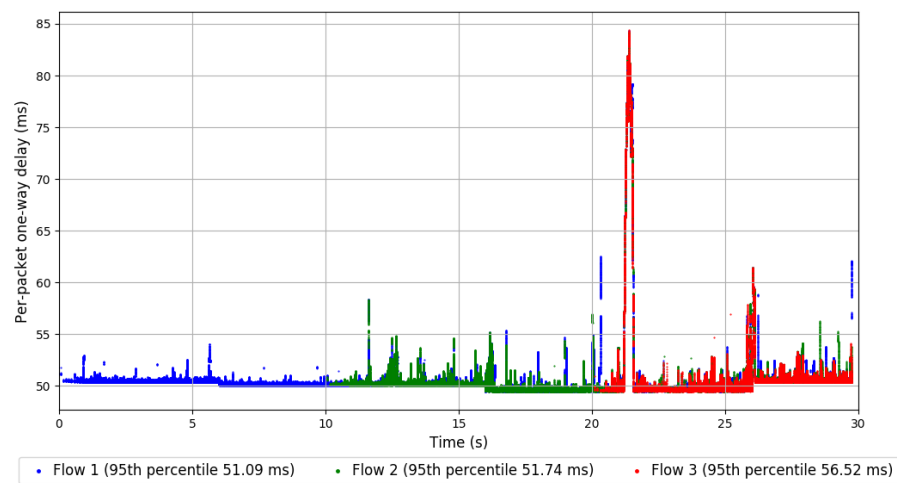
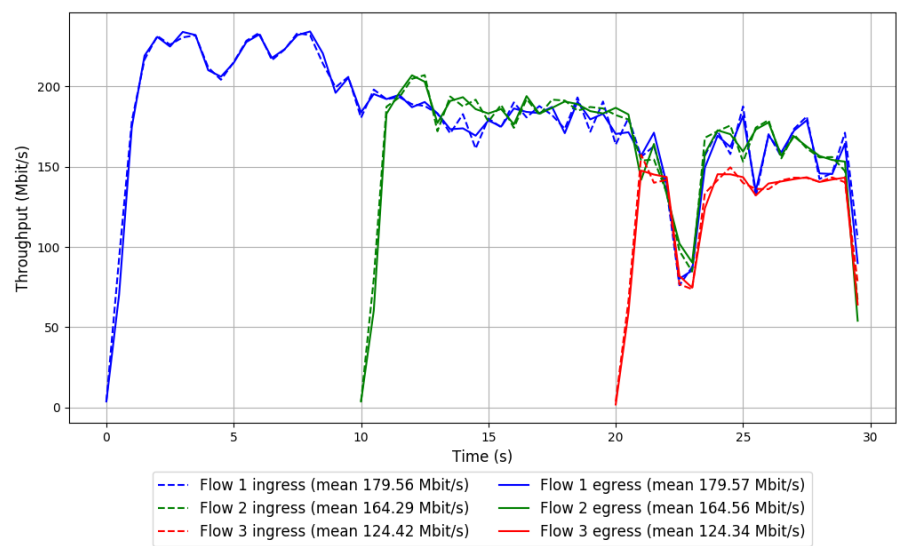


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 16:28:56
End at: 2018-01-26 16:29:26

# Below is generated by plot.py at 2018-01-26 22:22:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.96 Mbit/s
95th percentile per-packet one-way delay: 51.494 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 179.57 Mbit/s
95th percentile per-packet one-way delay: 51.088 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 164.56 Mbit/s
95th percentile per-packet one-way delay: 51.737 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 124.34 Mbit/s
95th percentile per-packet one-way delay: 56.521 ms
Loss rate: 1.10%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 16:43:20

End at: 2018-01-26 16:43:50

Below is generated by plot.py at 2018-01-26 22:22:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.85 Mbit/s

95th percentile per-packet one-way delay: 51.253 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 185.51 Mbit/s

95th percentile per-packet one-way delay: 51.069 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 176.29 Mbit/s

95th percentile per-packet one-way delay: 51.458 ms

Loss rate: 0.58%

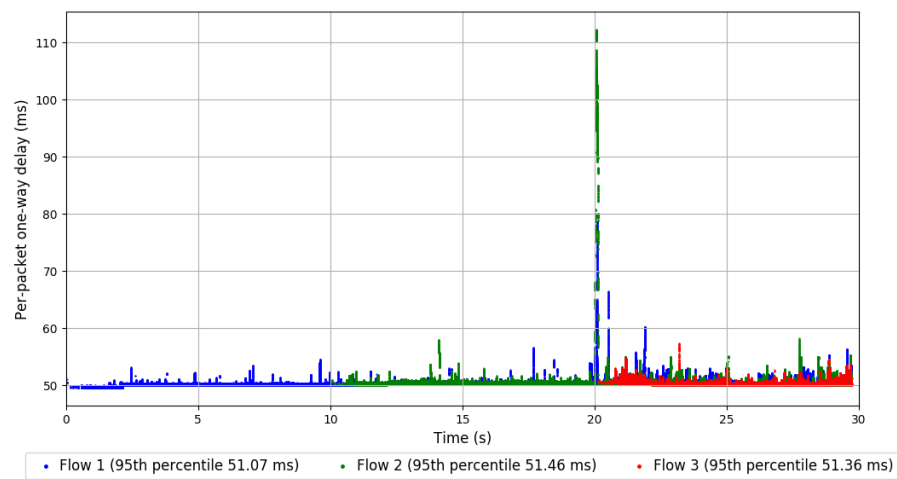
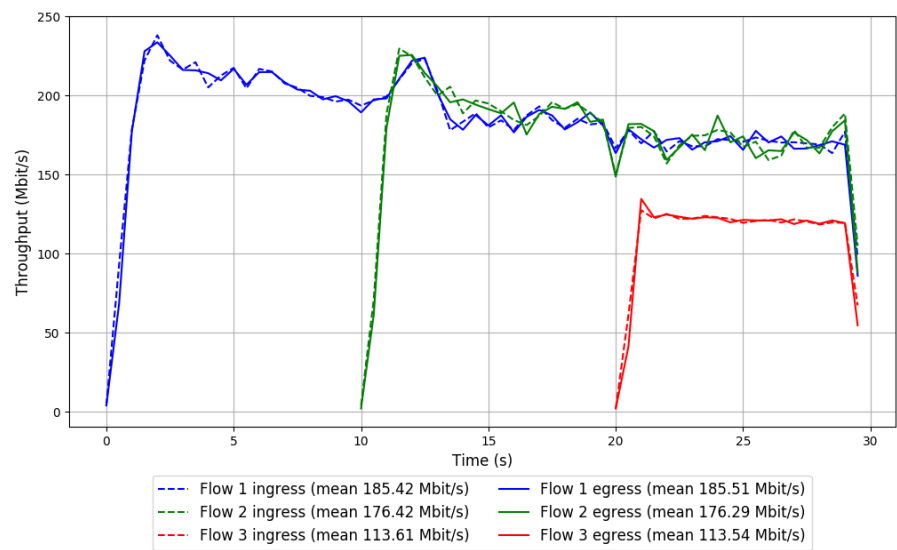
-- Flow 3:

Average throughput: 113.54 Mbit/s

95th percentile per-packet one-way delay: 51.357 ms

Loss rate: 1.09%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 16:57:54

End at: 2018-01-26 16:58:24

Below is generated by plot.py at 2018-01-26 22:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.10 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 187.18 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 171.35 Mbit/s

95th percentile per-packet one-way delay: 50.918 ms

Loss rate: 0.33%

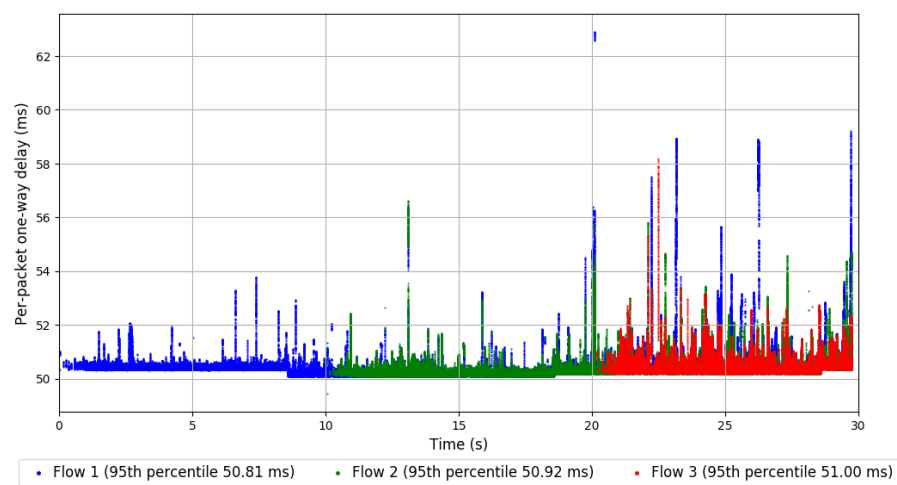
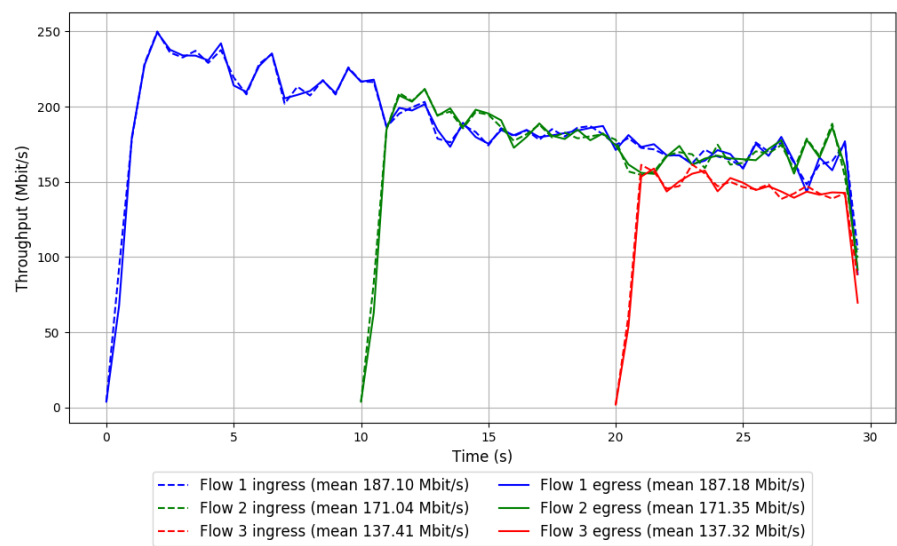
-- Flow 3:

Average throughput: 137.32 Mbit/s

95th percentile per-packet one-way delay: 50.998 ms

Loss rate: 1.14%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 17:12:23

End at: 2018-01-26 17:12:53

Below is generated by plot.py at 2018-01-26 22:25:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.72 Mbit/s

95th percentile per-packet one-way delay: 50.477 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 187.54 Mbit/s

95th percentile per-packet one-way delay: 50.419 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 170.90 Mbit/s

95th percentile per-packet one-way delay: 50.603 ms

Loss rate: 0.47%

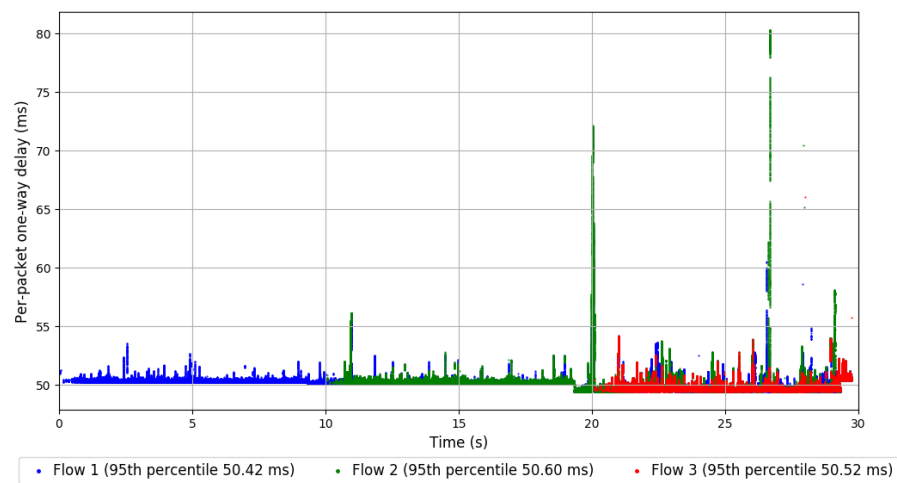
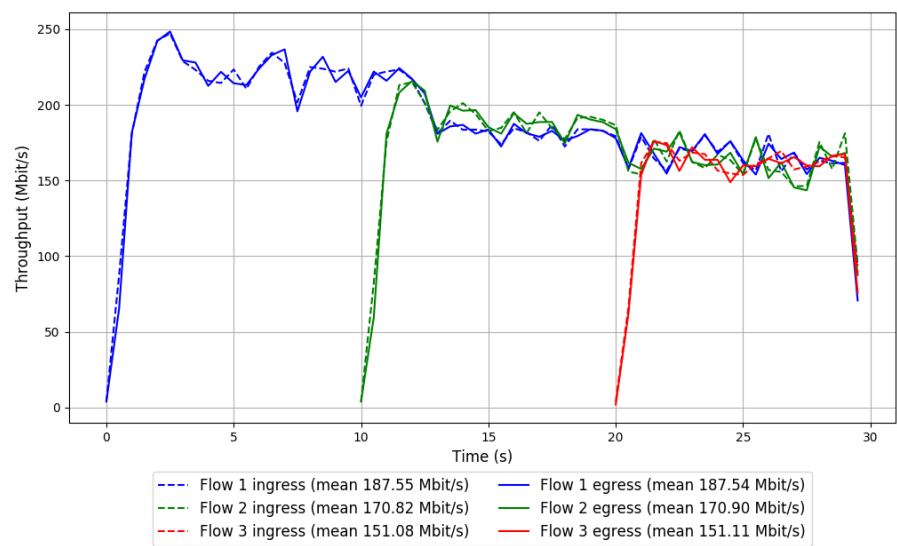
-- Flow 3:

Average throughput: 151.11 Mbit/s

95th percentile per-packet one-way delay: 50.520 ms

Loss rate: 0.97%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 17:26:58

End at: 2018-01-26 17:27:28

Below is generated by plot.py at 2018-01-26 22:25:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.59 Mbit/s

95th percentile per-packet one-way delay: 51.666 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 176.43 Mbit/s

95th percentile per-packet one-way delay: 51.154 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 177.10 Mbit/s

95th percentile per-packet one-way delay: 52.071 ms

Loss rate: 0.41%

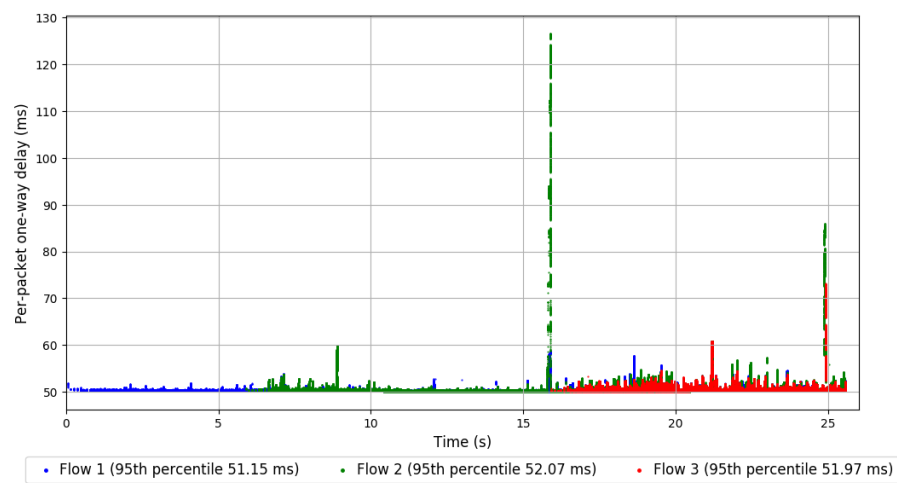
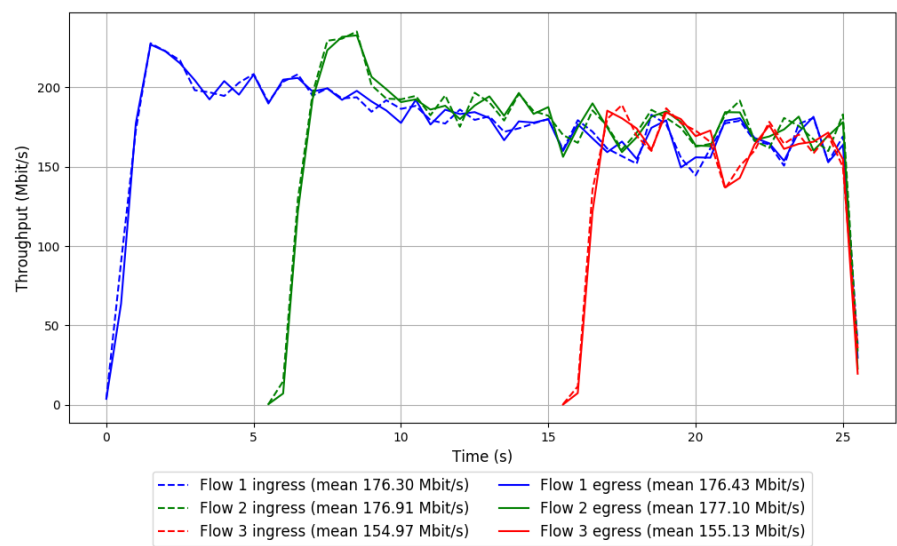
-- Flow 3:

Average throughput: 155.13 Mbit/s

95th percentile per-packet one-way delay: 51.972 ms

Loss rate: 0.95%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 17:41:11

End at: 2018-01-26 17:41:41

Below is generated by plot.py at 2018-01-26 22:25:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.46 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 172.85 Mbit/s

95th percentile per-packet one-way delay: 50.805 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 165.82 Mbit/s

95th percentile per-packet one-way delay: 51.060 ms

Loss rate: 0.53%

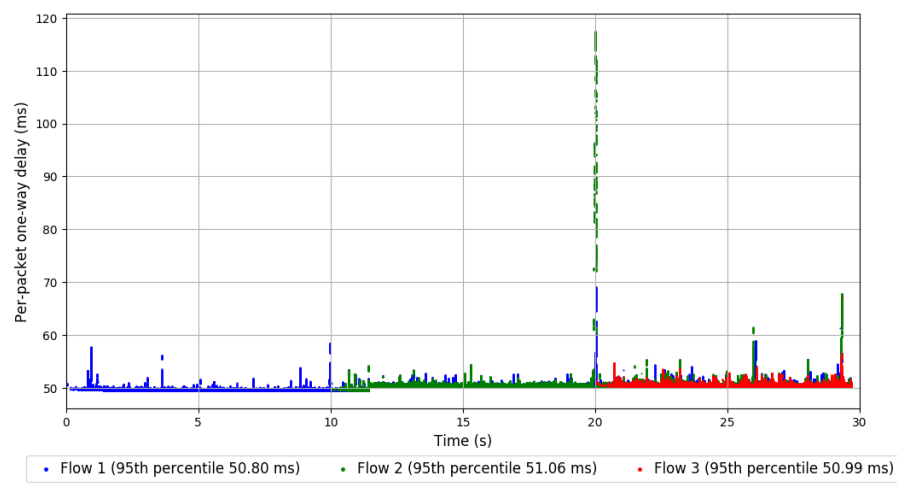
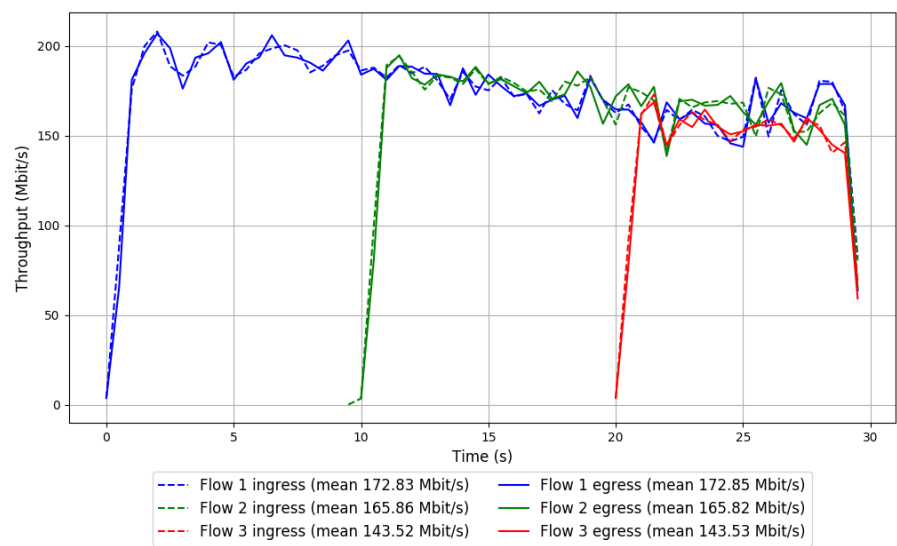
-- Flow 3:

Average throughput: 143.53 Mbit/s

95th percentile per-packet one-way delay: 50.987 ms

Loss rate: 1.03%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 17:55:31

End at: 2018-01-26 17:56:01

Below is generated by plot.py at 2018-01-26 22:25:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.99 Mbit/s

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 173.12 Mbit/s

95th percentile per-packet one-way delay: 50.068 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 168.20 Mbit/s

95th percentile per-packet one-way delay: 50.480 ms

Loss rate: 0.41%

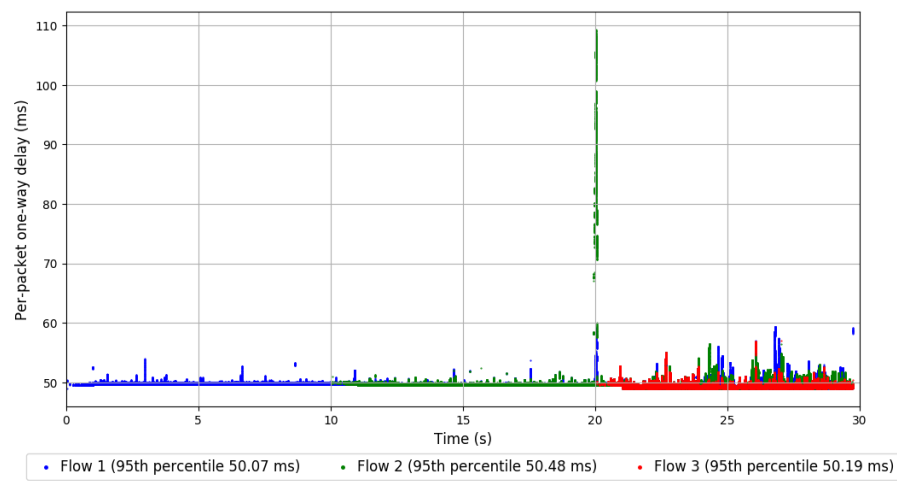
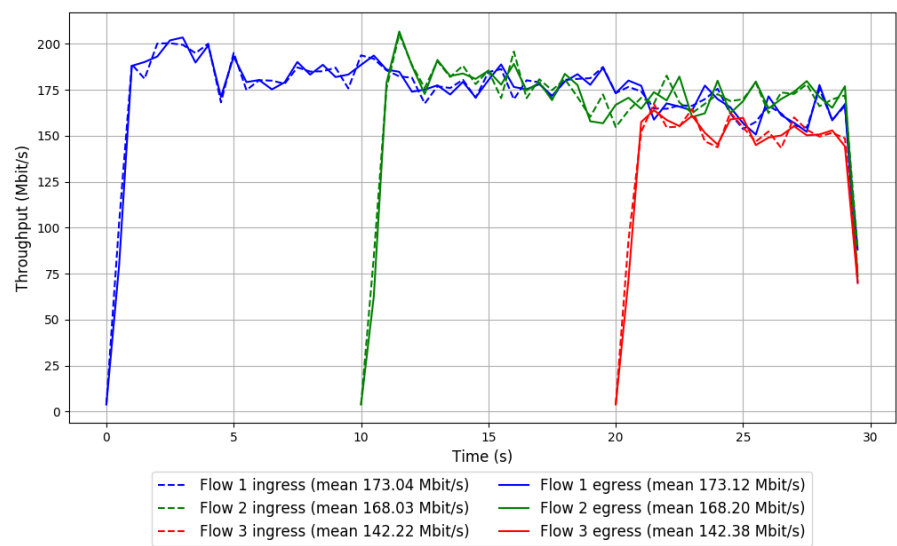
-- Flow 3:

Average throughput: 142.38 Mbit/s

95th percentile per-packet one-way delay: 50.192 ms

Loss rate: 0.91%

Run 8: Report of Indigo-1-128 — Data Link

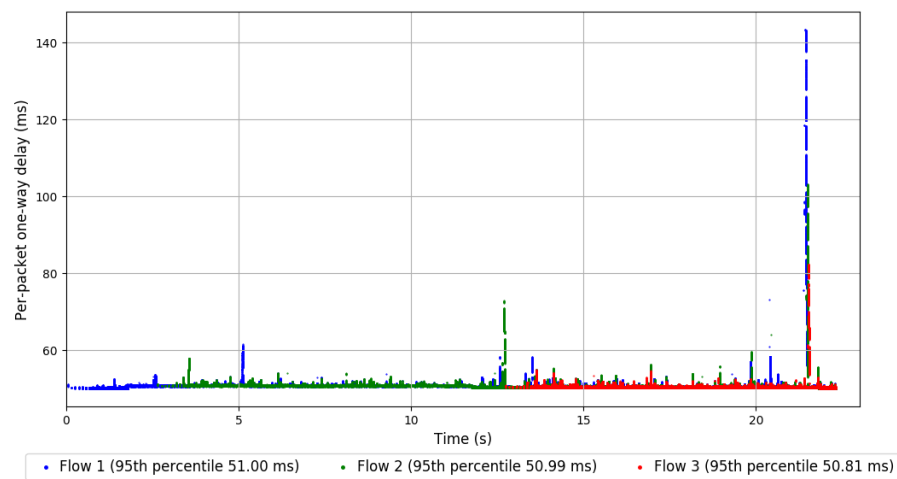
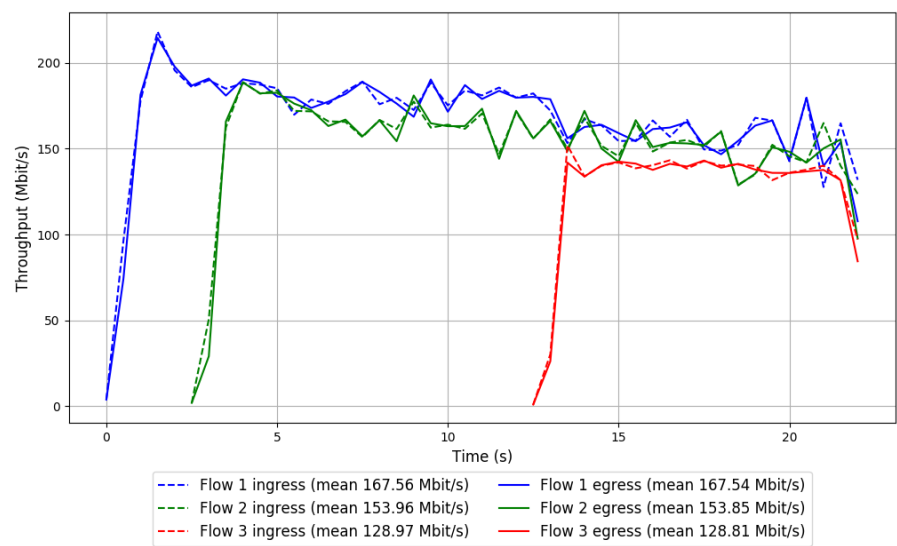


Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 18:10:03

End at: 2018-01-26 18:10:33

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 18:24:27

End at: 2018-01-26 18:24:57

Below is generated by plot.py at 2018-01-26 22:25:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.23 Mbit/s

95th percentile per-packet one-way delay: 51.345 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 170.89 Mbit/s

95th percentile per-packet one-way delay: 51.077 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 156.66 Mbit/s

95th percentile per-packet one-way delay: 51.608 ms

Loss rate: 0.47%

-- Flow 3:

Average throughput: 146.26 Mbit/s

95th percentile per-packet one-way delay: 51.546 ms

Loss rate: 1.05%

Run 10: Report of Indigo-1-128 — Data Link

