

Pantheon Report

Generated at 2018-01-10 02:18:59 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

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

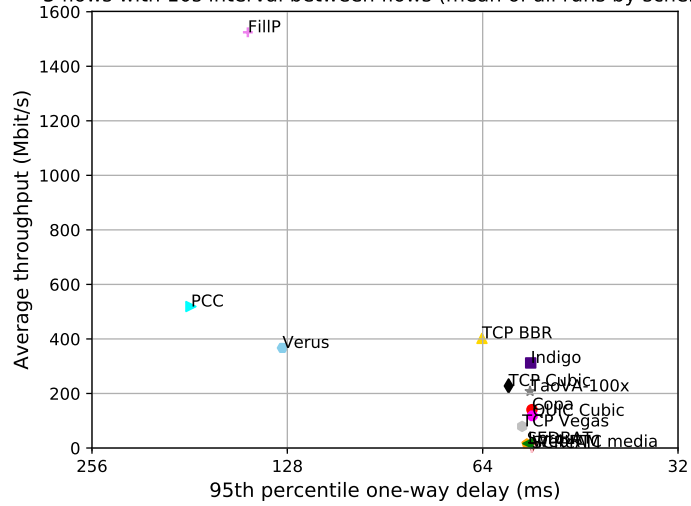
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

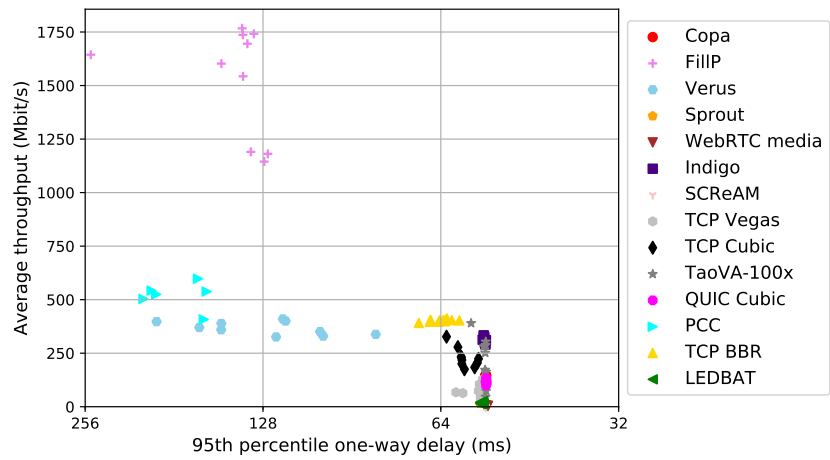
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fixp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



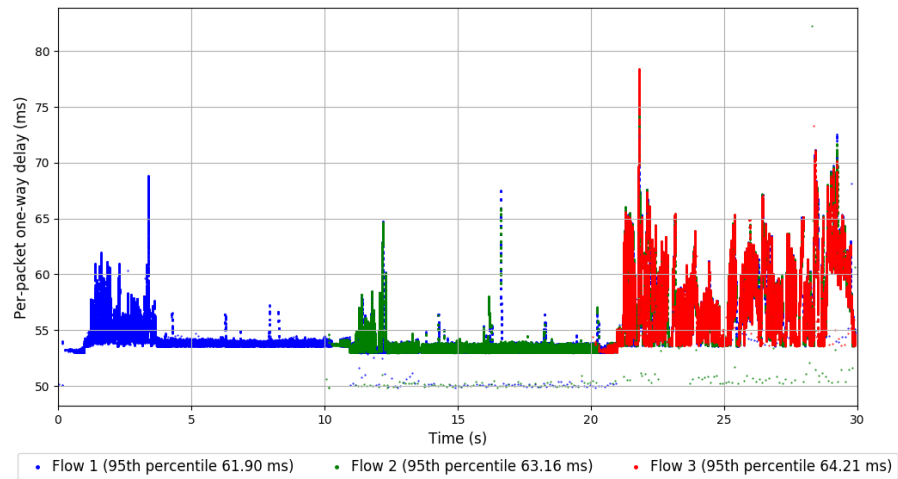
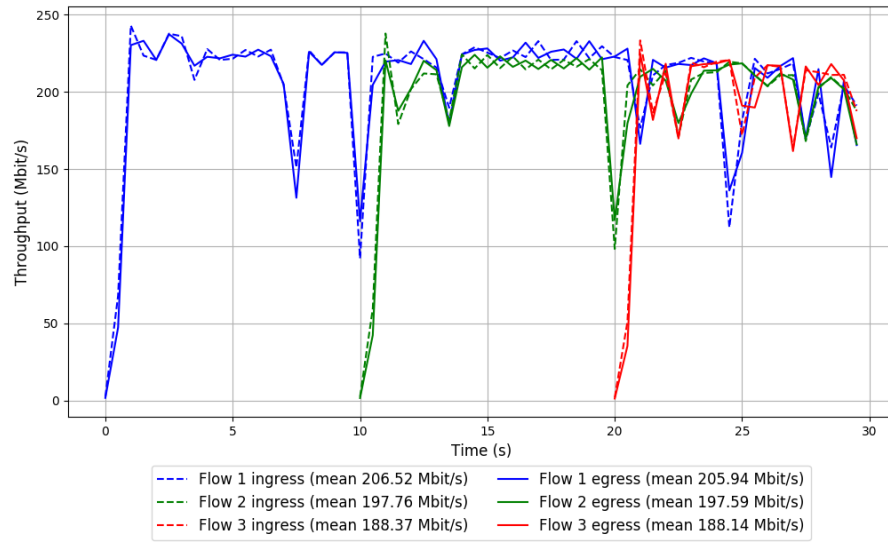
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	206.30	201.55	188.25	62.32	64.20	67.97	0.45	0.60	1.27
TCP Cubic	10	117.72	113.20	105.65	58.28	58.12	57.58	0.51	0.67	1.22
LEDBAT	10	8.72	8.86	5.58	54.52	54.46	54.38	1.63	1.52	2.46
PCC	6	375.40	179.19	36.79	819.95	179.72	174.27	4.12	3.72	3.94
QUIC Cubic	10	62.54	56.87	54.34	53.28	53.29	52.76	0.41	0.60	0.83
SCReAM	10	0.21	0.21	0.22	53.11	53.06	52.94	0.25	0.59	1.11
WebRTC media	10	2.23	1.39	0.57	52.71	52.74	53.38	0.44	0.63	1.54
Sprout	10	7.68	7.63	7.40	54.69	54.71	54.68	0.67	0.71	1.26
TaoVA-100x	10	135.24	104.64	103.63	53.86	54.52	53.96	0.42	0.82	0.75
TCP Vegas	10	41.58	35.30	43.47	55.18	55.05	54.52	1.01	1.02	1.21
Verus	10	214.41	172.79	117.58	114.77	127.09	146.19	0.97	1.53	2.99
Copa	10	76.57	70.93	66.36	53.68	53.67	53.70	0.34	0.45	1.75
FillP	10	835.23	728.20	626.25	144.72	137.85	139.77	4.25	5.60	5.73
Indigo	10	168.33	155.25	125.71	53.88	54.01	53.88	0.32	0.50	1.15

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-09 20:17:09
End at: 2018-01-09 20:17:39

# Below is generated by plot.py at 2018-01-10 00:57:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.15 Mbit/s
95th percentile per-packet one-way delay: 62.971 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 205.94 Mbit/s
95th percentile per-packet one-way delay: 61.899 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 197.59 Mbit/s
95th percentile per-packet one-way delay: 63.158 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 188.14 Mbit/s
95th percentile per-packet one-way delay: 64.207 ms
Loss rate: 1.23%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-09 20:30:53

End at: 2018-01-09 20:31:23

Below is generated by plot.py at 2018-01-10 00:57:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.21 Mbit/s

95th percentile per-packet one-way delay: 59.536 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 204.62 Mbit/s

95th percentile per-packet one-way delay: 58.910 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 201.53 Mbit/s

95th percentile per-packet one-way delay: 59.132 ms

Loss rate: 0.59%

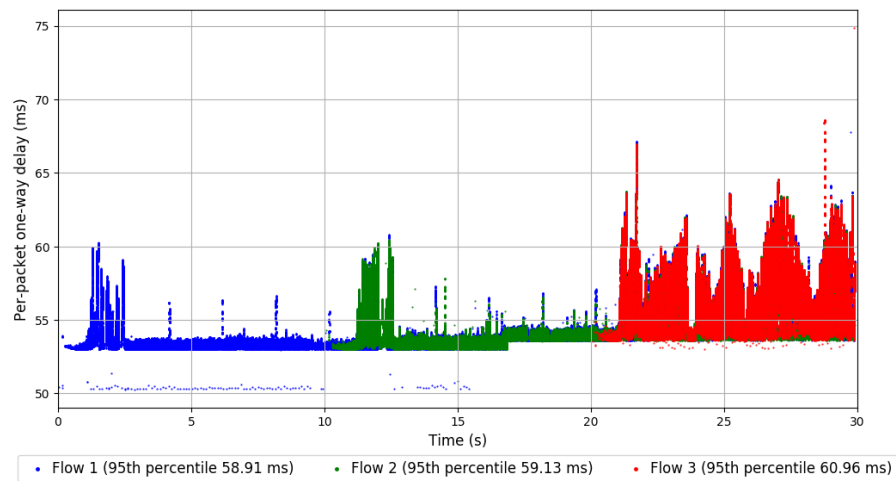
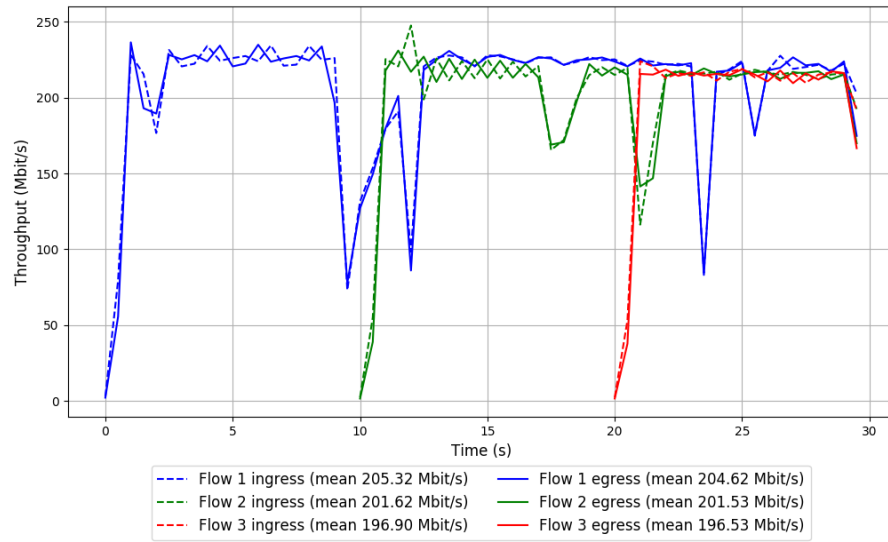
-- Flow 3:

Average throughput: 196.53 Mbit/s

95th percentile per-packet one-way delay: 60.960 ms

Loss rate: 1.27%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-09 20:44:42

End at: 2018-01-09 20:45:12

Below is generated by plot.py at 2018-01-10 00:57:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.96 Mbit/s

95th percentile per-packet one-way delay: 64.489 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 206.35 Mbit/s

95th percentile per-packet one-way delay: 62.662 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 200.58 Mbit/s

95th percentile per-packet one-way delay: 64.248 ms

Loss rate: 0.60%

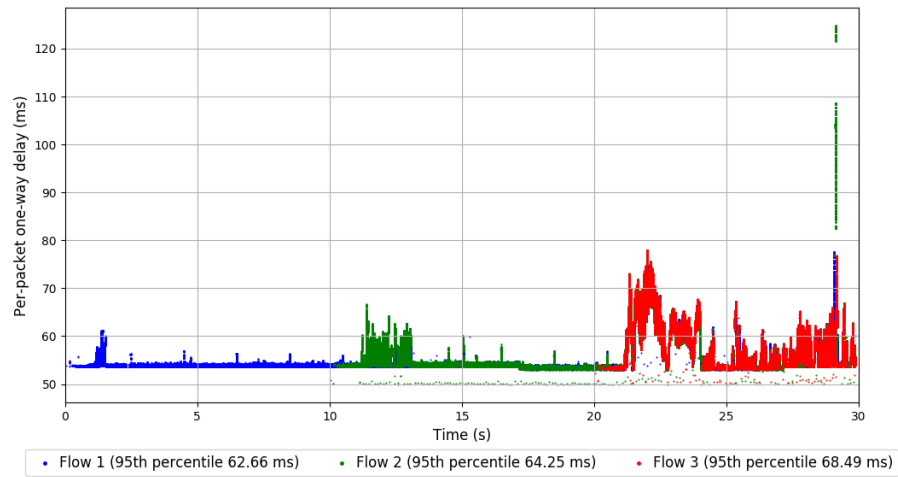
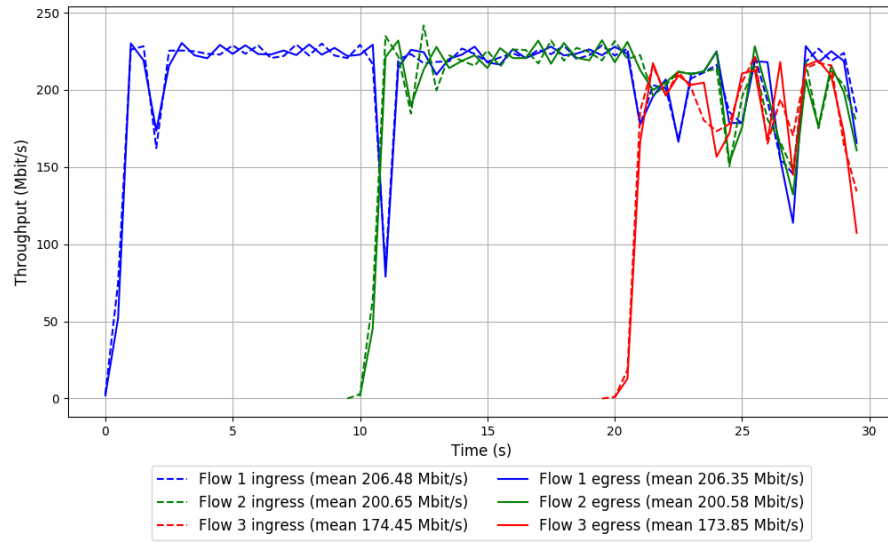
-- Flow 3:

Average throughput: 173.85 Mbit/s

95th percentile per-packet one-way delay: 68.491 ms

Loss rate: 1.41%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-09 20:58:02

End at: 2018-01-09 20:58:32

Below is generated by plot.py at 2018-01-10 00:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.99 Mbit/s

95th percentile per-packet one-way delay: 63.338 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 203.52 Mbit/s

95th percentile per-packet one-way delay: 61.501 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 209.95 Mbit/s

95th percentile per-packet one-way delay: 63.215 ms

Loss rate: 0.59%

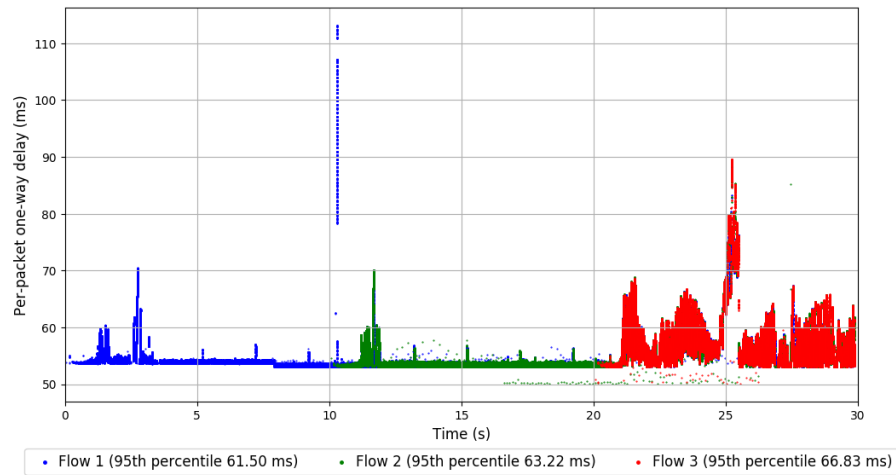
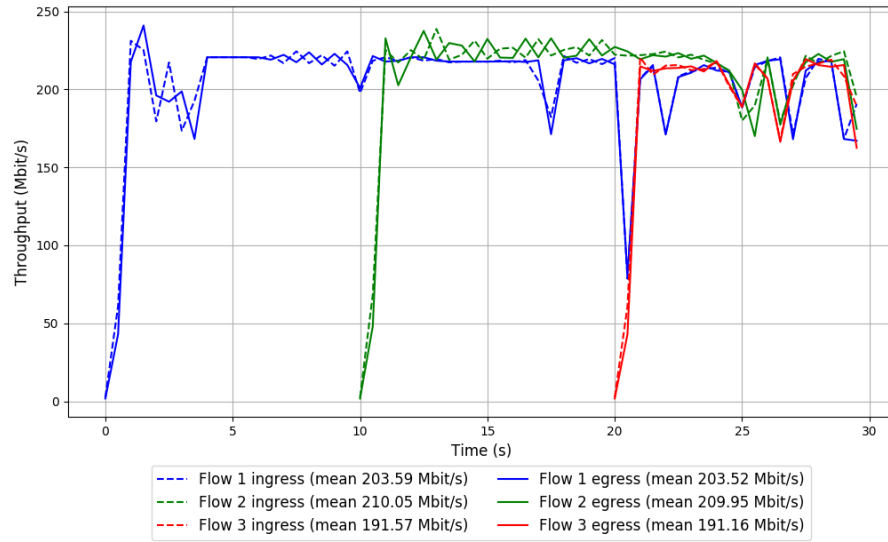
-- Flow 3:

Average throughput: 191.16 Mbit/s

95th percentile per-packet one-way delay: 66.826 ms

Loss rate: 1.27%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 21:12:13

End at: 2018-01-09 21:12:43

Below is generated by plot.py at 2018-01-10 00:57:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.76 Mbit/s

95th percentile per-packet one-way delay: 62.533 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 208.37 Mbit/s

95th percentile per-packet one-way delay: 62.126 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 210.65 Mbit/s

95th percentile per-packet one-way delay: 62.579 ms

Loss rate: 0.57%

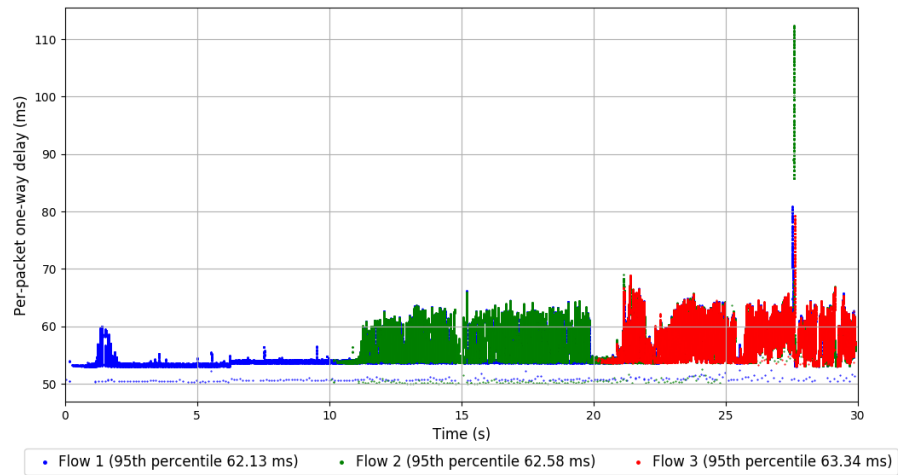
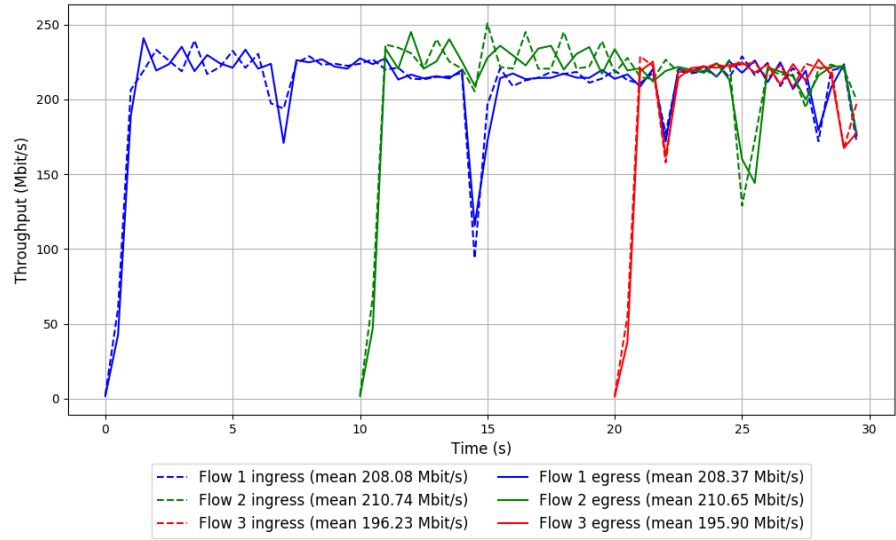
-- Flow 3:

Average throughput: 195.90 Mbit/s

95th percentile per-packet one-way delay: 63.340 ms

Loss rate: 1.23%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-09 21:25:46

End at: 2018-01-09 21:26:16

Below is generated by plot.py at 2018-01-10 00:57:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.11 Mbit/s

95th percentile per-packet one-way delay: 66.785 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 207.43 Mbit/s

95th percentile per-packet one-way delay: 60.150 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 197.60 Mbit/s

95th percentile per-packet one-way delay: 66.860 ms

Loss rate: 0.59%

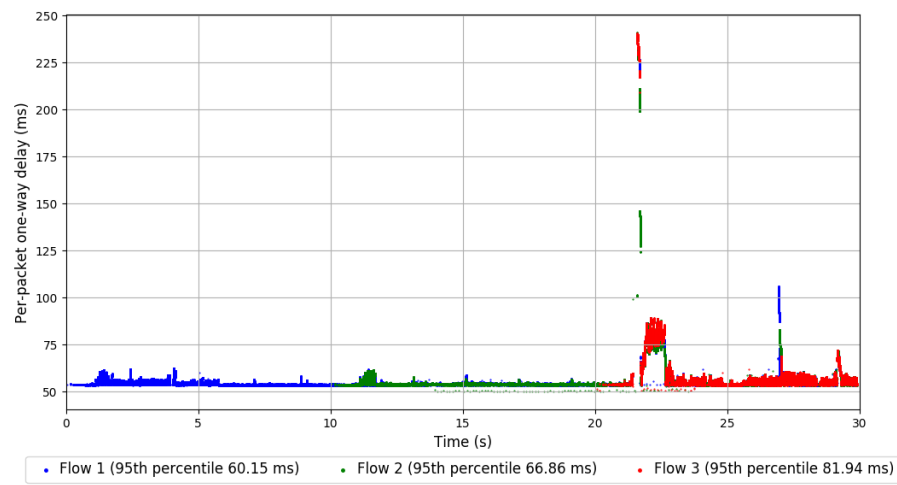
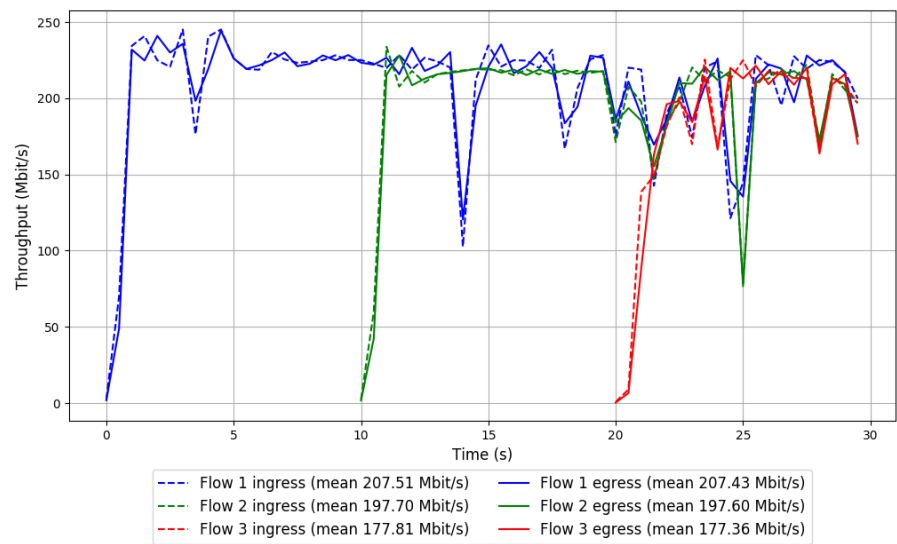
-- Flow 3:

Average throughput: 177.36 Mbit/s

95th percentile per-packet one-way delay: 81.941 ms

Loss rate: 1.31%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 21:39:36

End at: 2018-01-09 21:40:06

Below is generated by plot.py at 2018-01-10 00:57:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.11 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 206.39 Mbit/s

95th percentile per-packet one-way delay: 61.668 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 198.73 Mbit/s

95th percentile per-packet one-way delay: 64.554 ms

Loss rate: 0.63%

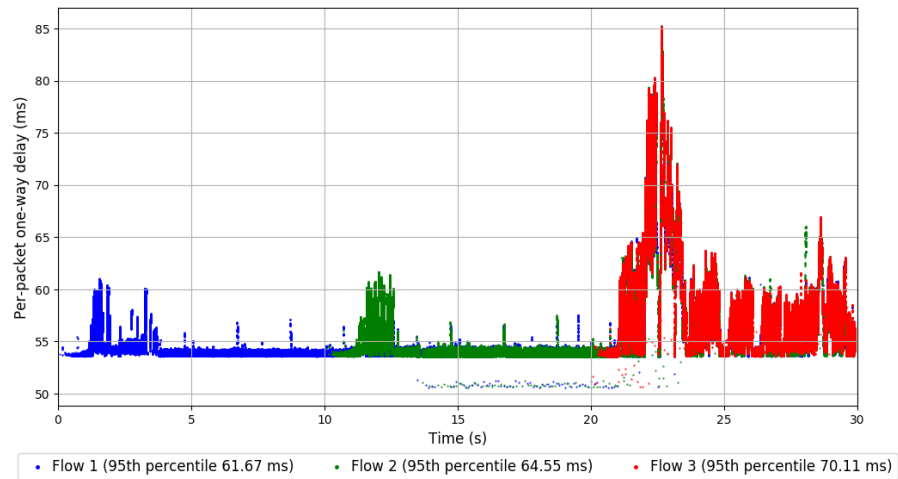
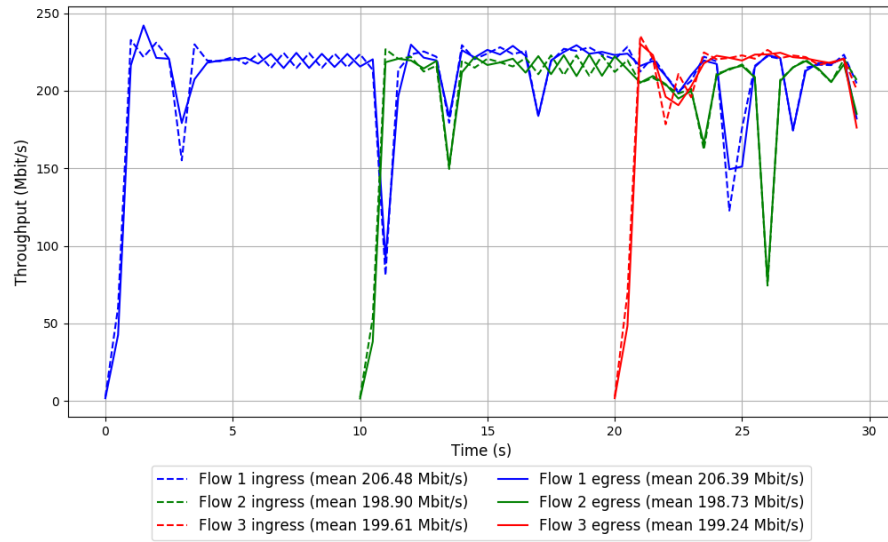
-- Flow 3:

Average throughput: 199.24 Mbit/s

95th percentile per-packet one-way delay: 70.105 ms

Loss rate: 1.24%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 21:53:35

End at: 2018-01-09 21:54:05

Below is generated by plot.py at 2018-01-10 00:57:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.43 Mbit/s

95th percentile per-packet one-way delay: 61.306 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 207.15 Mbit/s

95th percentile per-packet one-way delay: 60.295 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 203.00 Mbit/s

95th percentile per-packet one-way delay: 61.579 ms

Loss rate: 0.65%

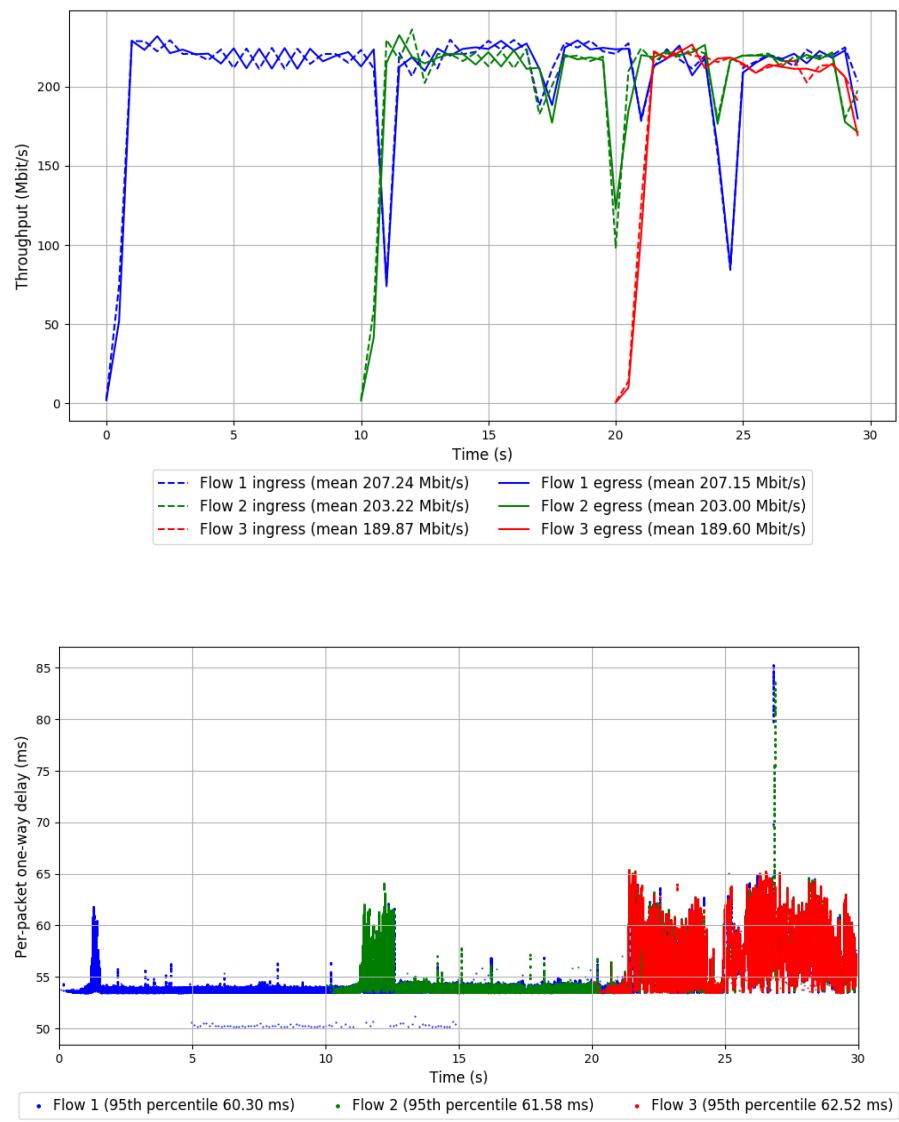
-- Flow 3:

Average throughput: 189.60 Mbit/s

95th percentile per-packet one-way delay: 62.519 ms

Loss rate: 1.24%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-09 22:07:11

End at: 2018-01-09 22:07:41

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.52 Mbit/s

95th percentile per-packet one-way delay: 66.641 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 209.04 Mbit/s

95th percentile per-packet one-way delay: 65.408 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 202.03 Mbit/s

95th percentile per-packet one-way delay: 66.939 ms

Loss rate: 0.60%

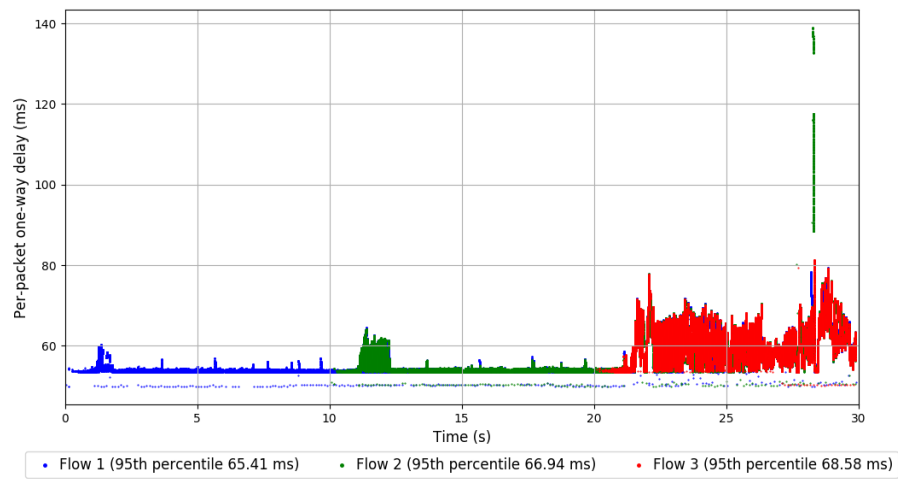
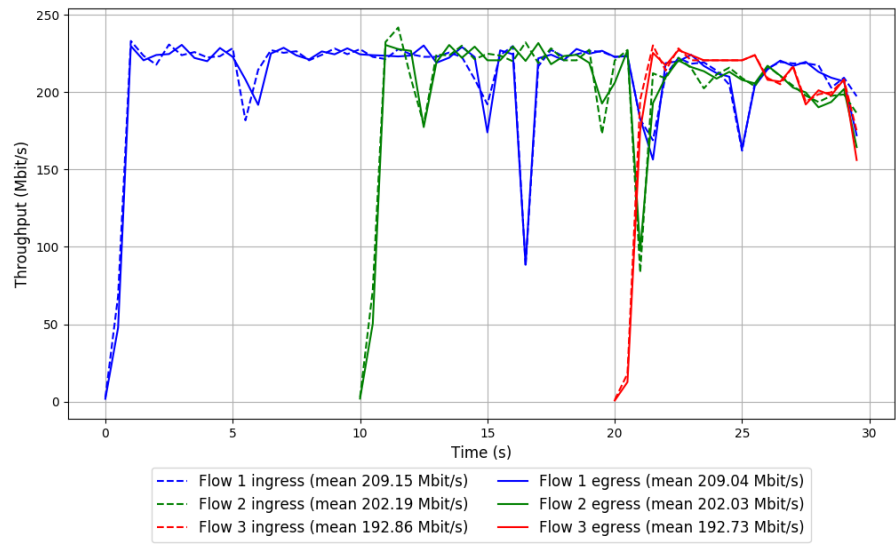
-- Flow 3:

Average throughput: 192.73 Mbit/s

95th percentile per-packet one-way delay: 68.575 ms

Loss rate: 1.17%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 22:21:08

End at: 2018-01-09 22:21:38

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.43 Mbit/s

95th percentile per-packet one-way delay: 69.720 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 204.18 Mbit/s

95th percentile per-packet one-way delay: 68.618 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 193.88 Mbit/s

95th percentile per-packet one-way delay: 69.716 ms

Loss rate: 0.64%

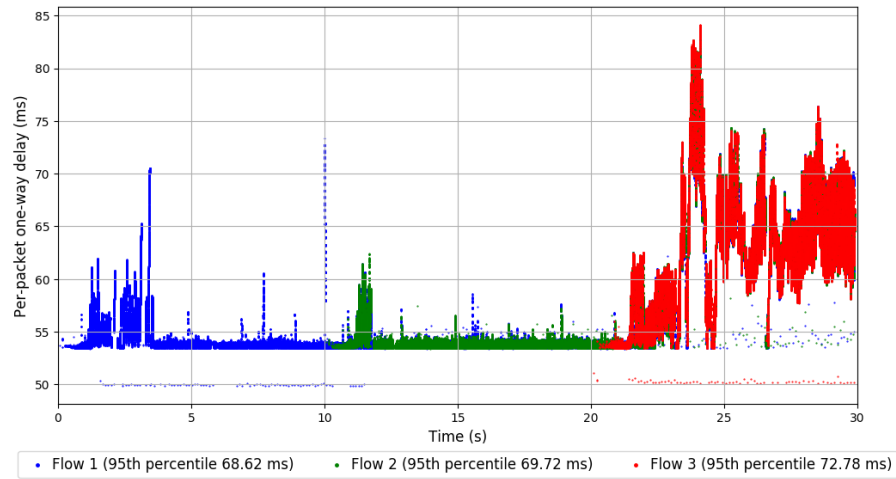
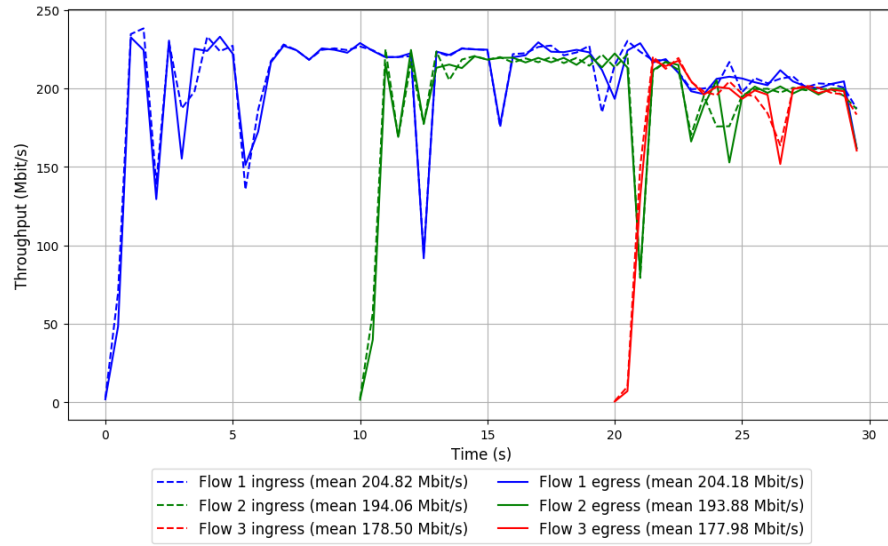
-- Flow 3:

Average throughput: 177.98 Mbit/s

95th percentile per-packet one-way delay: 72.779 ms

Loss rate: 1.35%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 20:07:18

End at: 2018-01-09 20:07:48

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.12 Mbit/s

95th percentile per-packet one-way delay: 59.130 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 103.65 Mbit/s

95th percentile per-packet one-way delay: 58.591 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 135.35 Mbit/s

95th percentile per-packet one-way delay: 59.420 ms

Loss rate: 0.44%

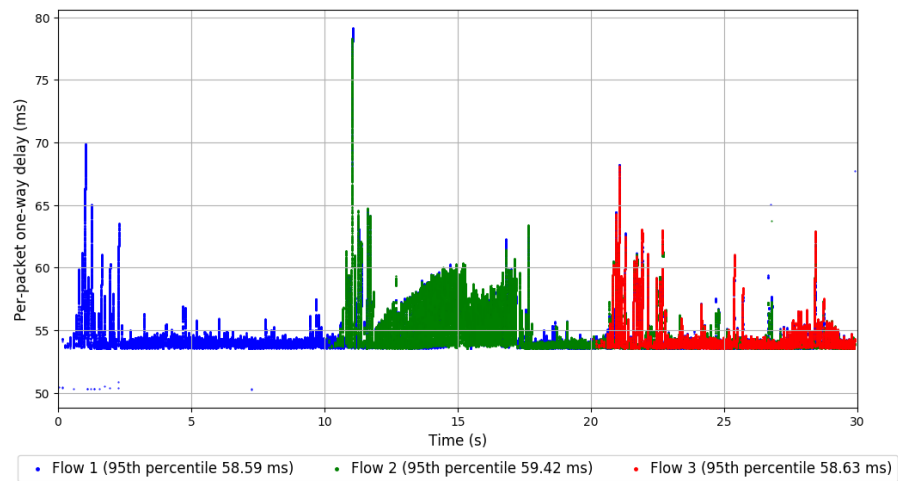
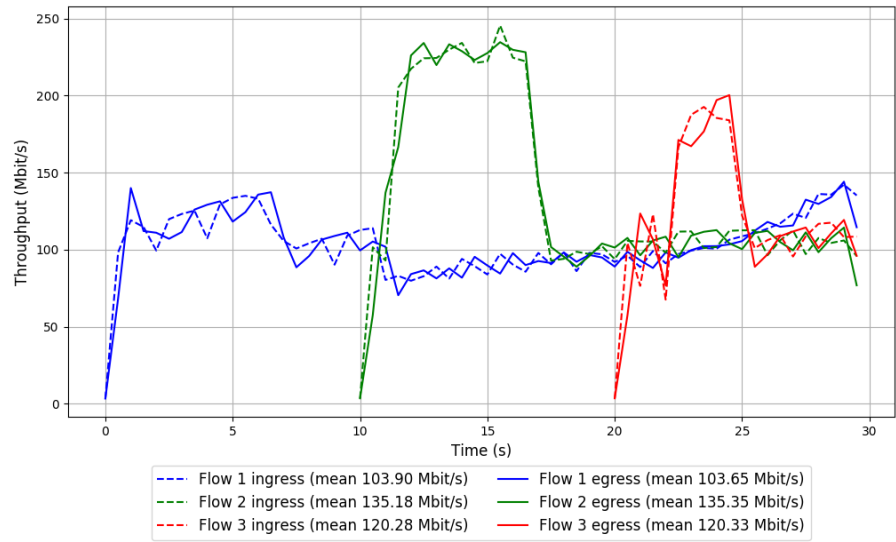
-- Flow 3:

Average throughput: 120.33 Mbit/s

95th percentile per-packet one-way delay: 58.635 ms

Loss rate: 1.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 20:20:54

End at: 2018-01-09 20:21:24

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.90 Mbit/s

95th percentile per-packet one-way delay: 59.055 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 116.58 Mbit/s

95th percentile per-packet one-way delay: 59.649 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 130.66 Mbit/s

95th percentile per-packet one-way delay: 58.685 ms

Loss rate: 0.38%

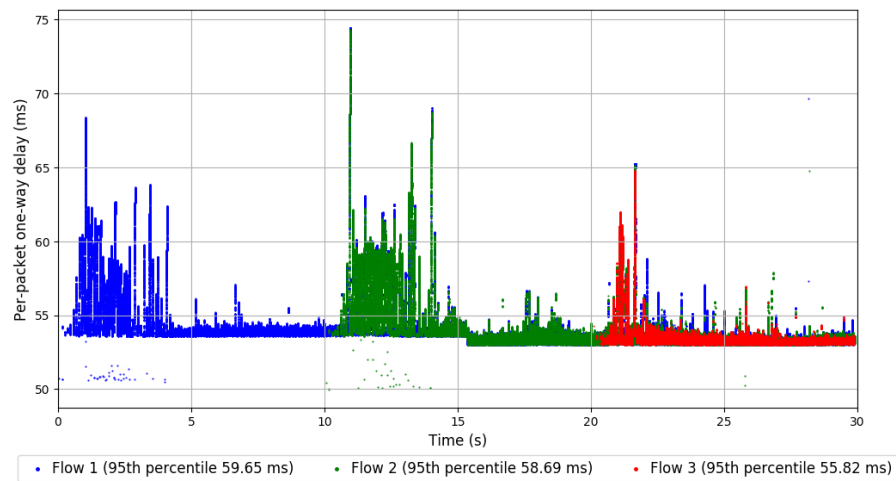
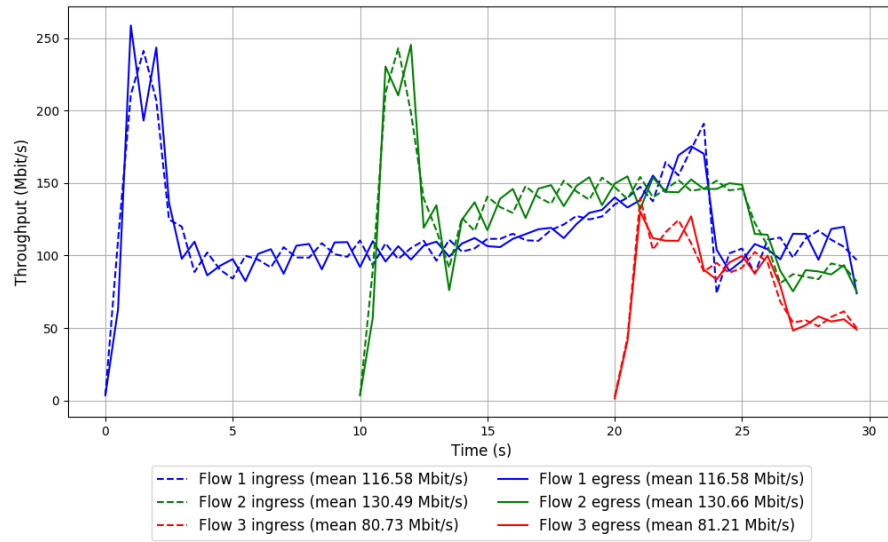
-- Flow 3:

Average throughput: 81.21 Mbit/s

95th percentile per-packet one-way delay: 55.816 ms

Loss rate: 0.79%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 20:34:41

End at: 2018-01-09 20:35:11

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.31 Mbit/s

95th percentile per-packet one-way delay: 56.087 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 87.96 Mbit/s

95th percentile per-packet one-way delay: 55.155 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 57.470 ms

Loss rate: 0.54%

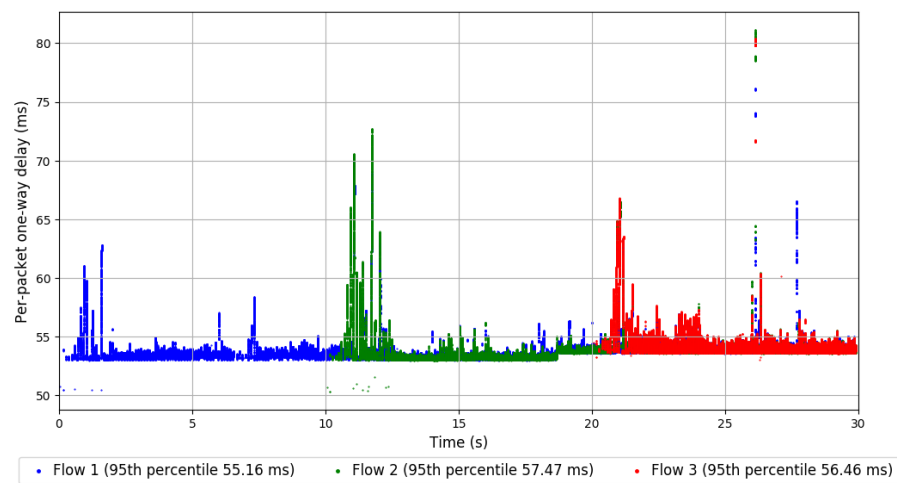
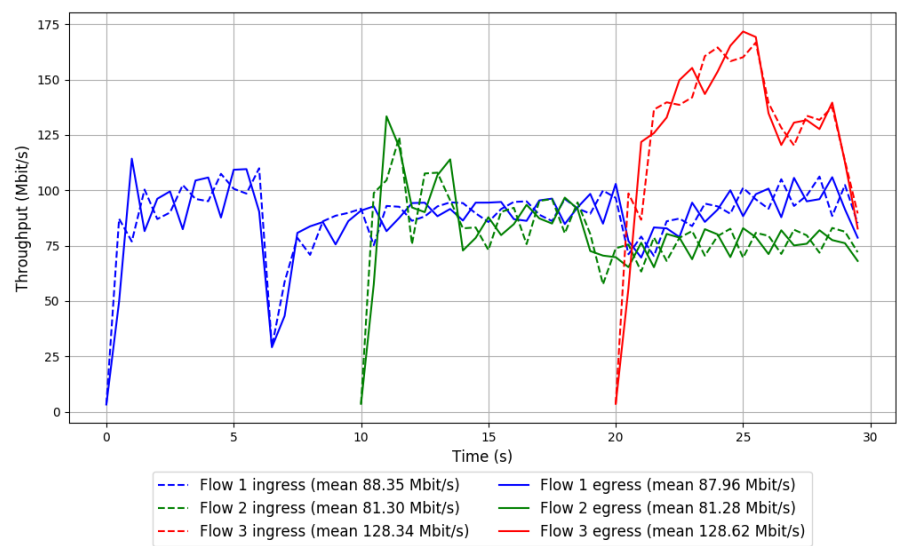
-- Flow 3:

Average throughput: 128.62 Mbit/s

95th percentile per-packet one-way delay: 56.460 ms

Loss rate: 0.83%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 20:48:29

End at: 2018-01-09 20:48:59

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.84 Mbit/s

95th percentile per-packet one-way delay: 55.504 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 55.604 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 105.18 Mbit/s

95th percentile per-packet one-way delay: 55.999 ms

Loss rate: 0.53%

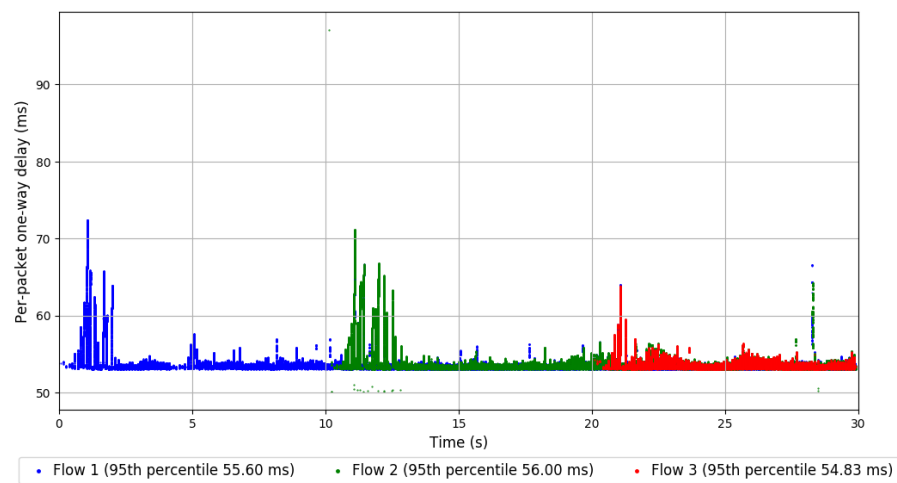
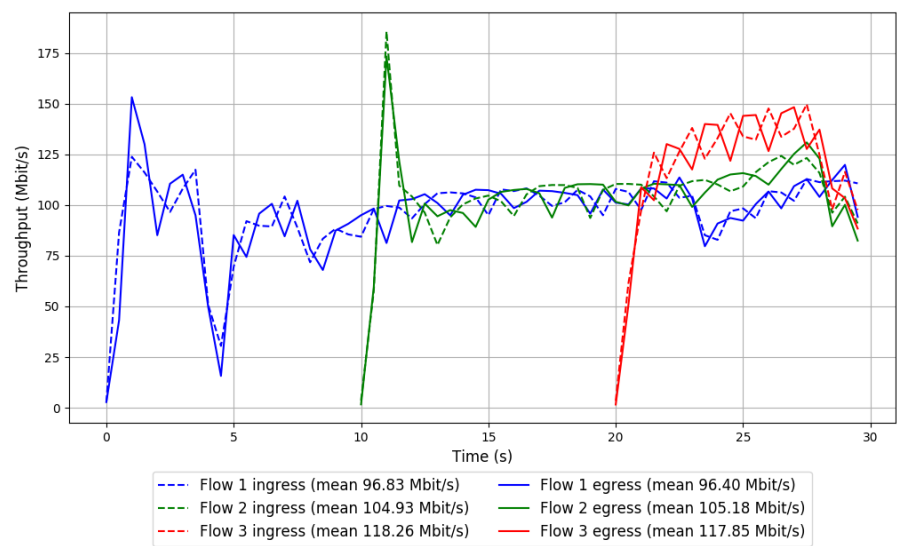
-- Flow 3:

Average throughput: 117.85 Mbit/s

95th percentile per-packet one-way delay: 54.830 ms

Loss rate: 1.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 21:01:50

End at: 2018-01-09 21:02:20

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.71 Mbit/s

95th percentile per-packet one-way delay: 59.878 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 143.66 Mbit/s

95th percentile per-packet one-way delay: 59.918 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 159.23 Mbit/s

95th percentile per-packet one-way delay: 59.190 ms

Loss rate: 0.49%

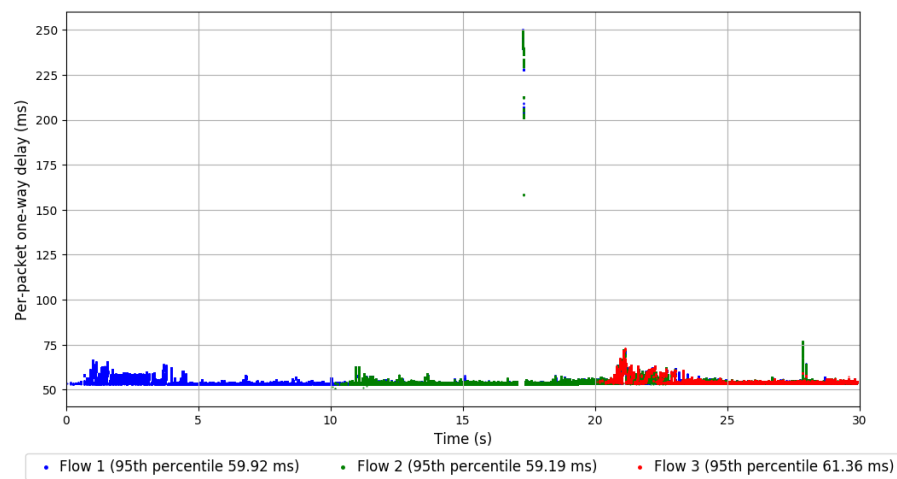
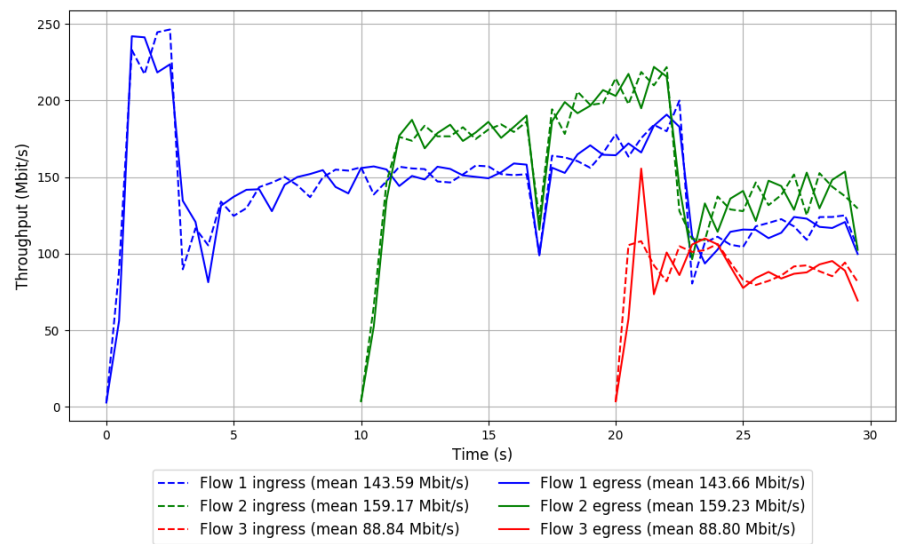
-- Flow 3:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 61.357 ms

Loss rate: 1.10%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 21:16:04

End at: 2018-01-09 21:16:34

Below is generated by plot.py at 2018-01-10 01:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.47 Mbit/s

95th percentile per-packet one-way delay: 58.949 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 58.693 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 124.81 Mbit/s

95th percentile per-packet one-way delay: 59.445 ms

Loss rate: 0.50%

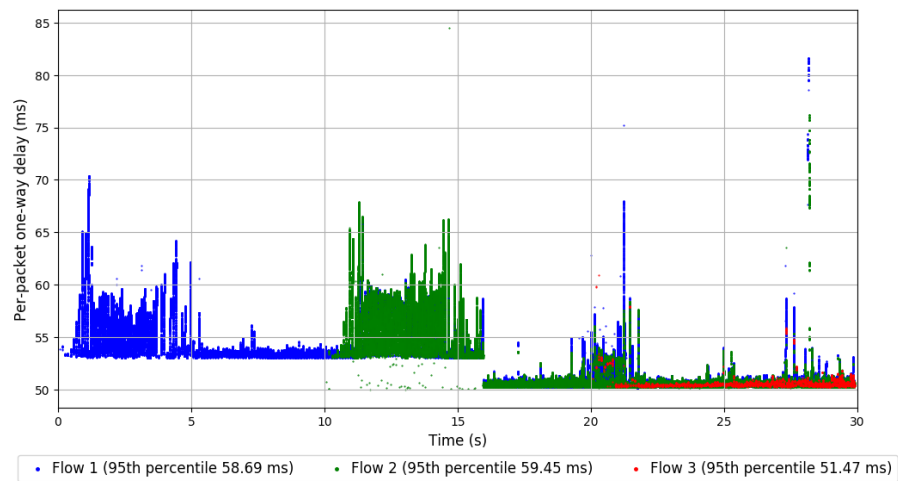
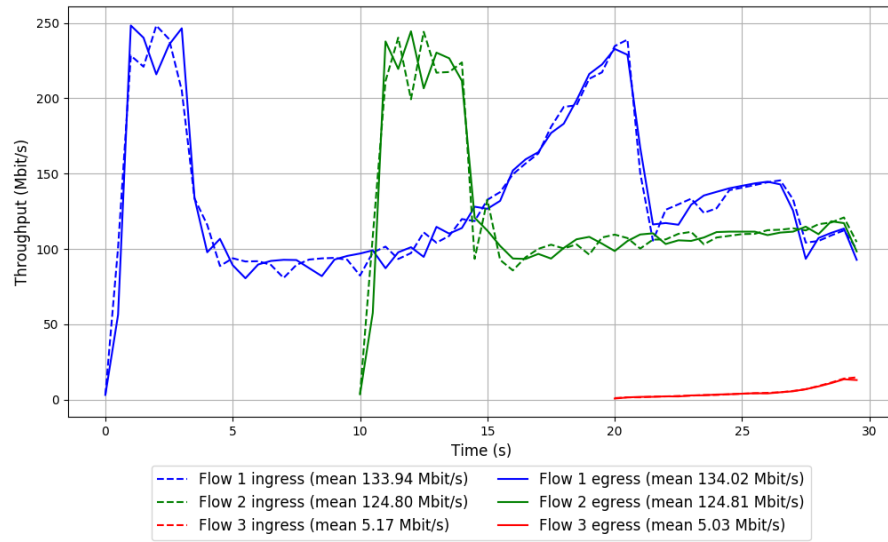
-- Flow 3:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 51.465 ms

Loss rate: 3.58%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 21:29:32

End at: 2018-01-09 21:30:02

Below is generated by plot.py at 2018-01-10 01:04:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.89 Mbit/s

95th percentile per-packet one-way delay: 55.257 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 119.17 Mbit/s

95th percentile per-packet one-way delay: 55.239 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 110.93 Mbit/s

95th percentile per-packet one-way delay: 55.031 ms

Loss rate: 0.75%

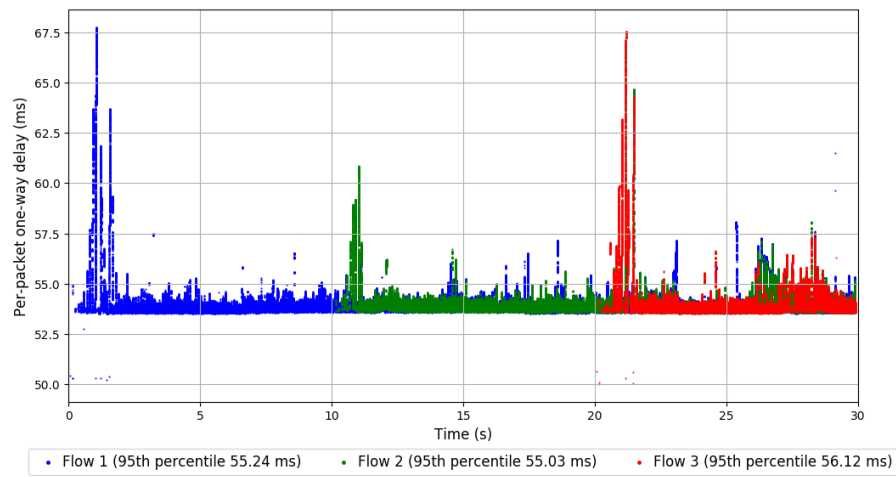
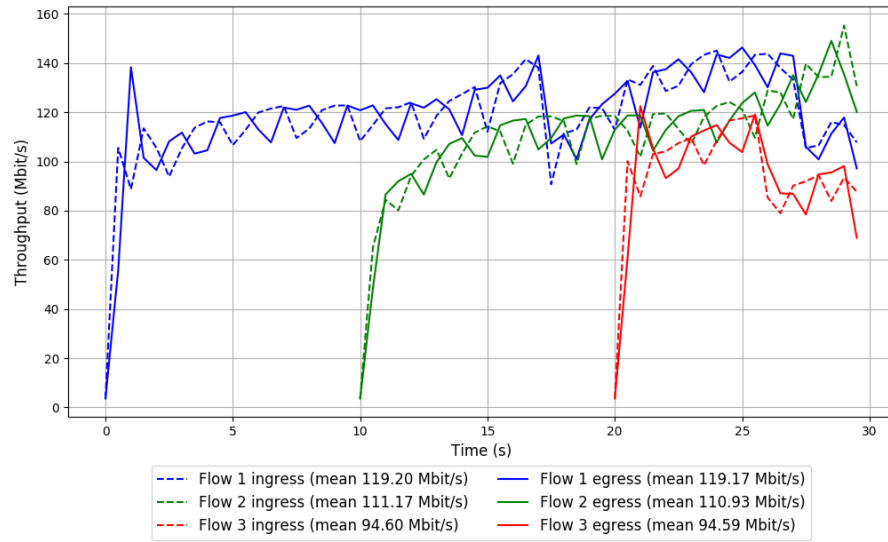
-- Flow 3:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 56.115 ms

Loss rate: 1.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 21:43:24

End at: 2018-01-09 21:43:54

Below is generated by plot.py at 2018-01-10 01:04:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.04 Mbit/s

95th percentile per-packet one-way delay: 58.370 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 59.636 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 56.050 ms

Loss rate: 0.42%

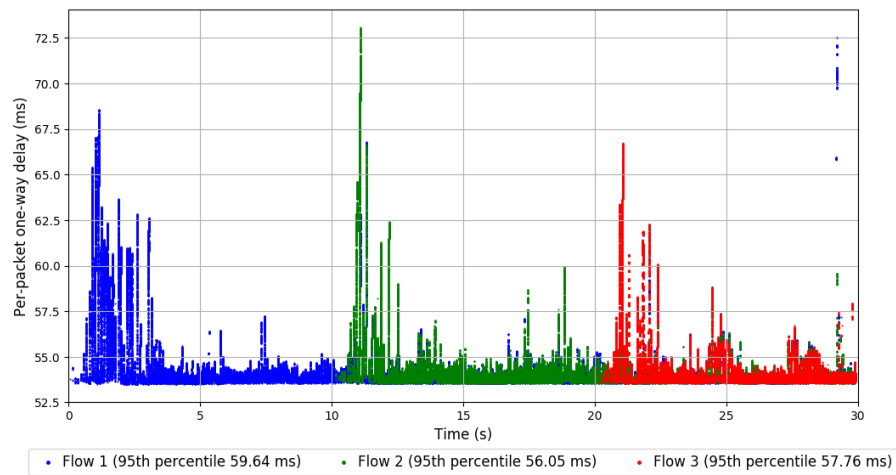
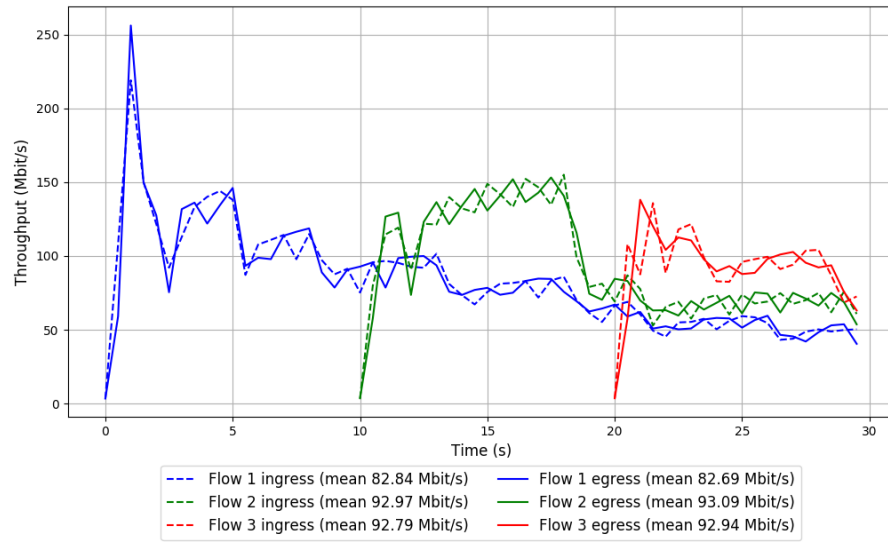
-- Flow 3:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 57.757 ms

Loss rate: 0.89%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 21:57:19

End at: 2018-01-09 21:57:49

Below is generated by plot.py at 2018-01-10 01:04:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.43 Mbit/s

95th percentile per-packet one-way delay: 58.978 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 127.44 Mbit/s

95th percentile per-packet one-way delay: 59.689 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 58.054 ms

Loss rate: 2.32%

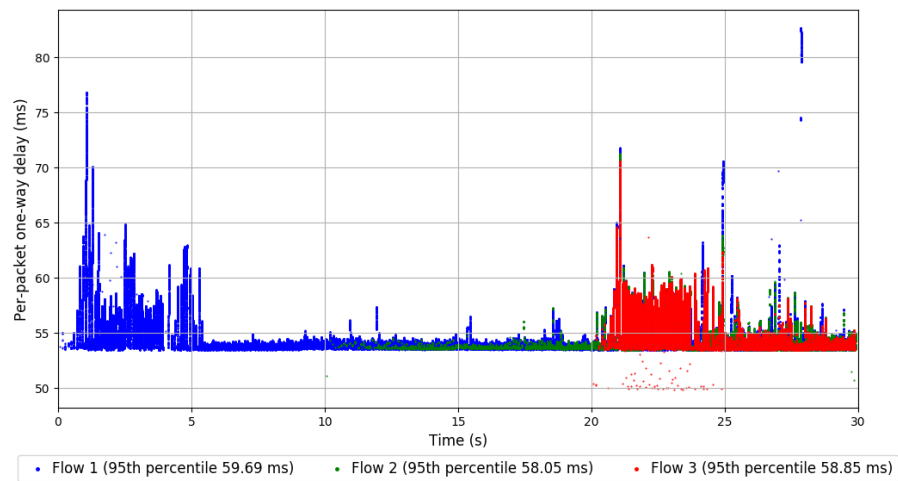
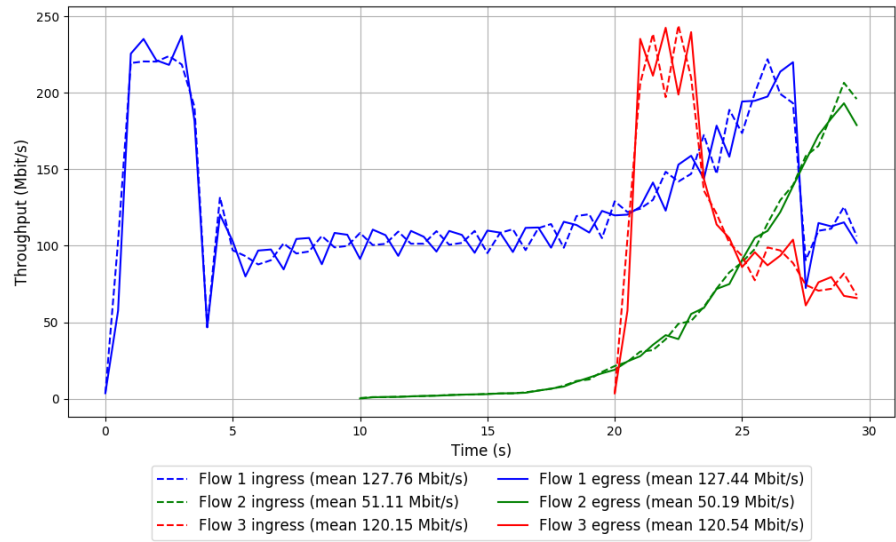
-- Flow 3:

Average throughput: 120.54 Mbit/s

95th percentile per-packet one-way delay: 58.851 ms

Loss rate: 0.72%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 22:10:56

End at: 2018-01-09 22:11:26

Below is generated by plot.py at 2018-01-10 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.16 Mbit/s

95th percentile per-packet one-way delay: 62.595 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 165.66 Mbit/s

95th percentile per-packet one-way delay: 60.672 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 141.32 Mbit/s

95th percentile per-packet one-way delay: 61.865 ms

Loss rate: 0.32%

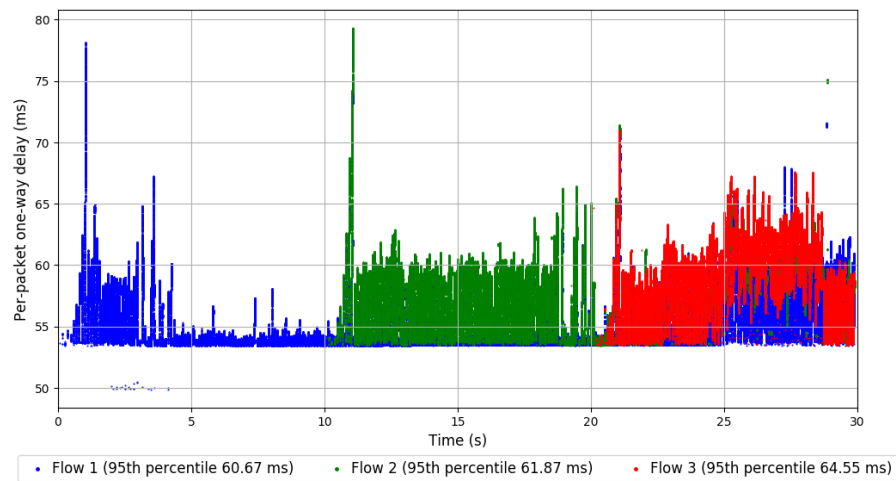
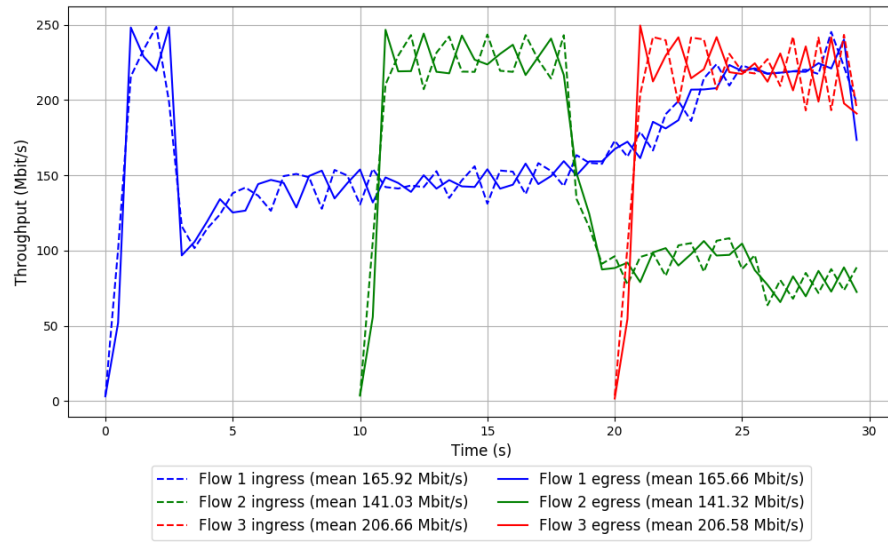
-- Flow 3:

Average throughput: 206.58 Mbit/s

95th percentile per-packet one-way delay: 64.547 ms

Loss rate: 1.20%

Run 10: Report of TCP Cubic — Data Link

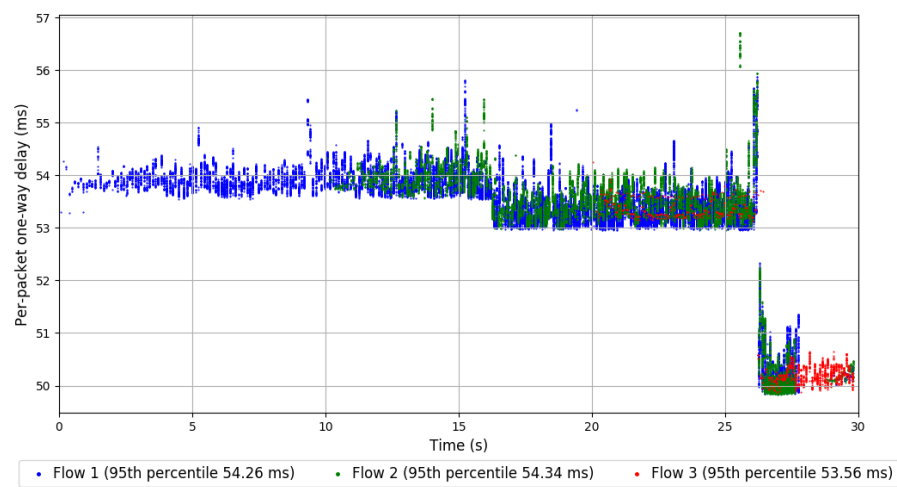
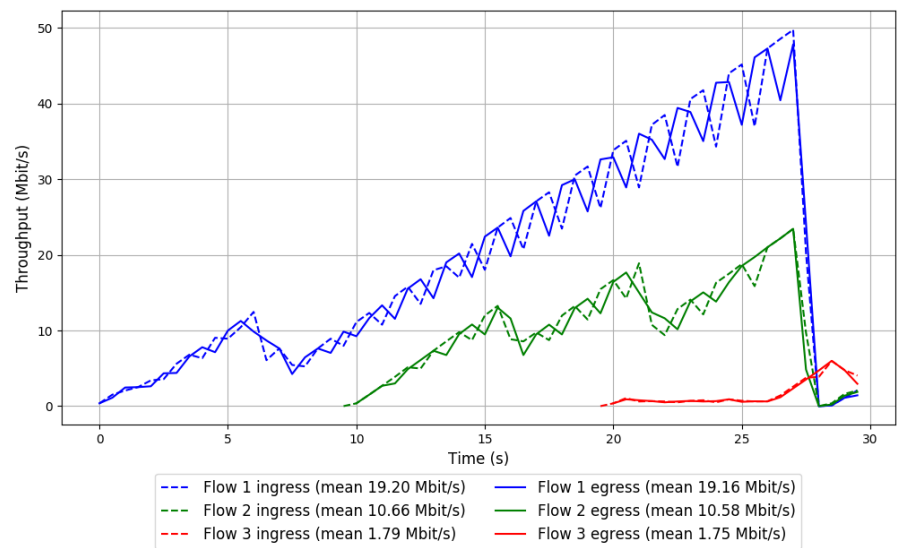


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 20:04:33
End at: 2018-01-09 20:05:03

# Below is generated by plot.py at 2018-01-10 01:06:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 54.270 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 19.16 Mbit/s
95th percentile per-packet one-way delay: 54.258 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 54.337 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 53.558 ms
Loss rate: 3.08%
```


Run 1: Report of LEDBAT — Data Link

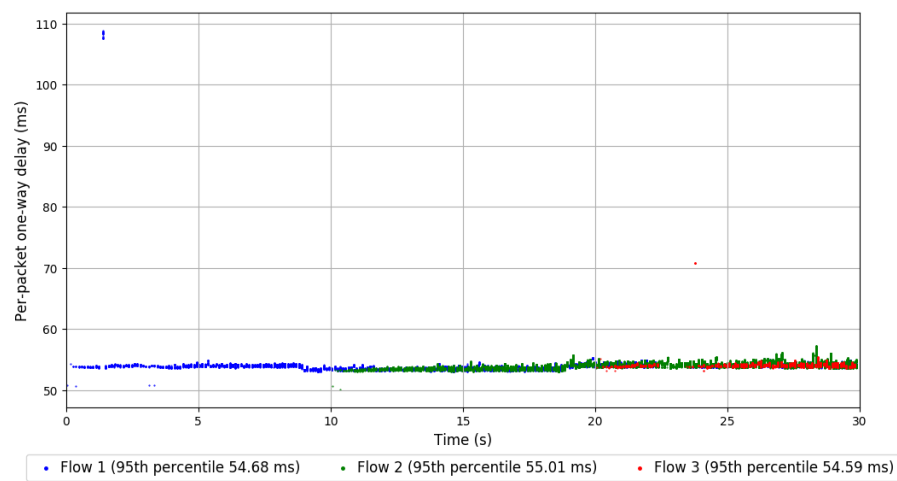
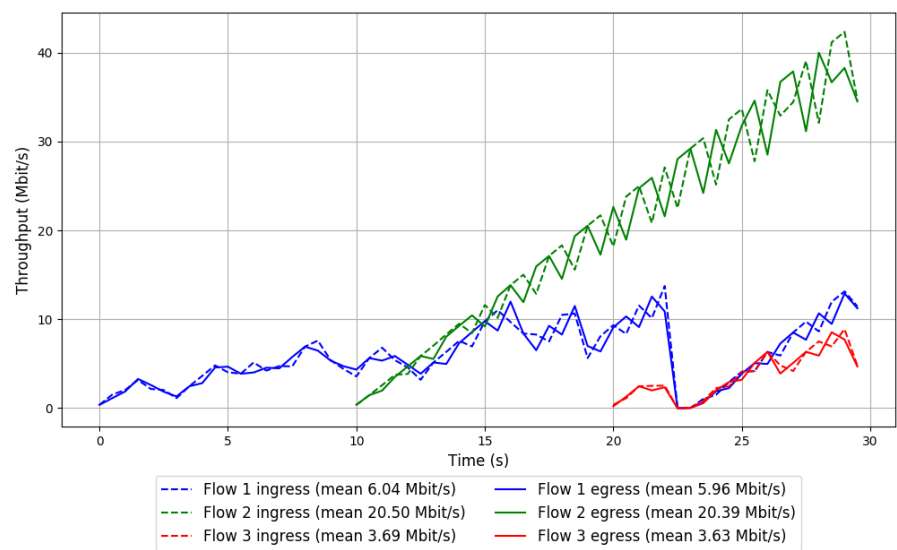


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-09 20:18:11
End at: 2018-01-09 20:18:41

# Below is generated by plot.py at 2018-01-10 01:06:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 54.904 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 54.677 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 55.010 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 54.592 ms
Loss rate: 2.71%
```

Run 2: Report of LEDBAT — Data Link

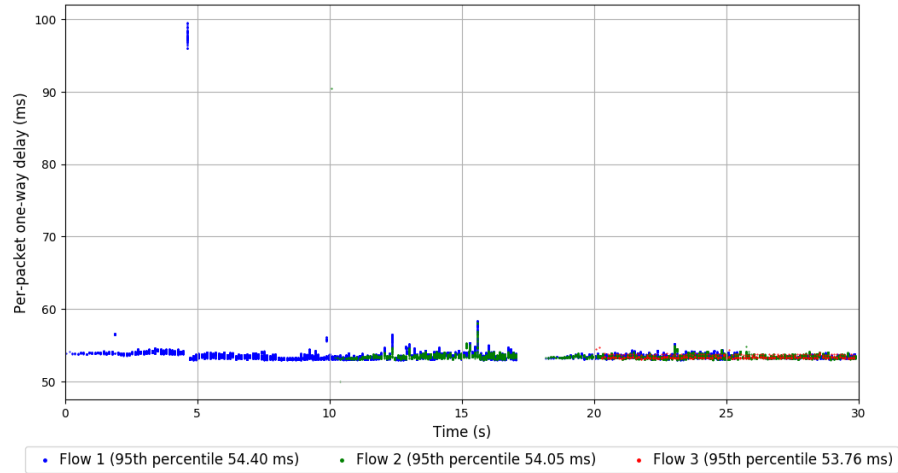
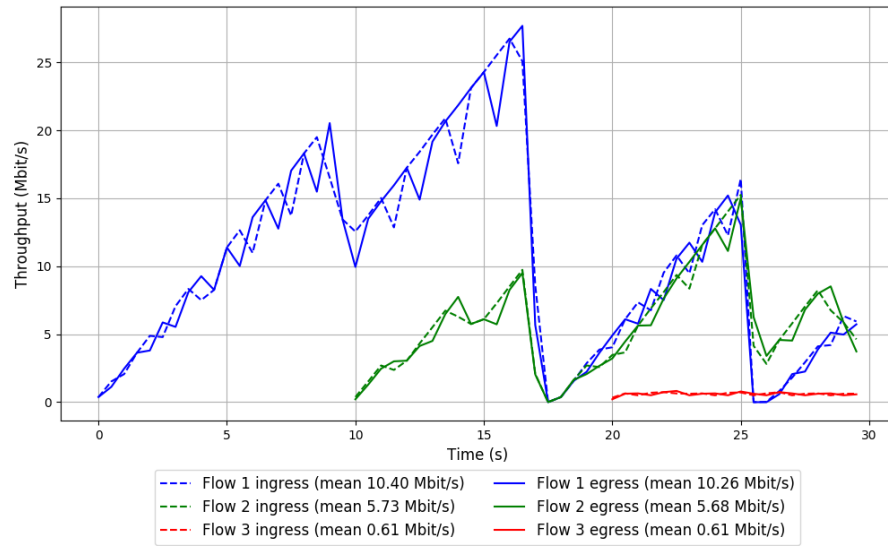


```
Run 3: Statistics of LEDBAT

Start at: 2018-01-09 20:31:55
End at: 2018-01-09 20:32:25

# Below is generated by plot.py at 2018-01-10 01:06:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 54.304 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 54.395 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 54.046 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 53.764 ms
Loss rate: 1.33%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-09 20:45:45

End at: 2018-01-09 20:46:15

Below is generated by plot.py at 2018-01-10 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.68 Mbit/s

95th percentile per-packet one-way delay: 54.858 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 55.110 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 54.550 ms

Loss rate: 0.99%

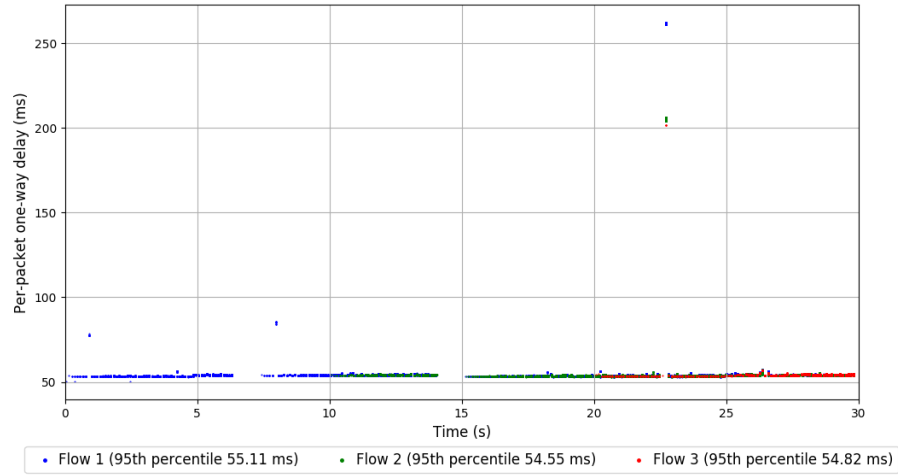
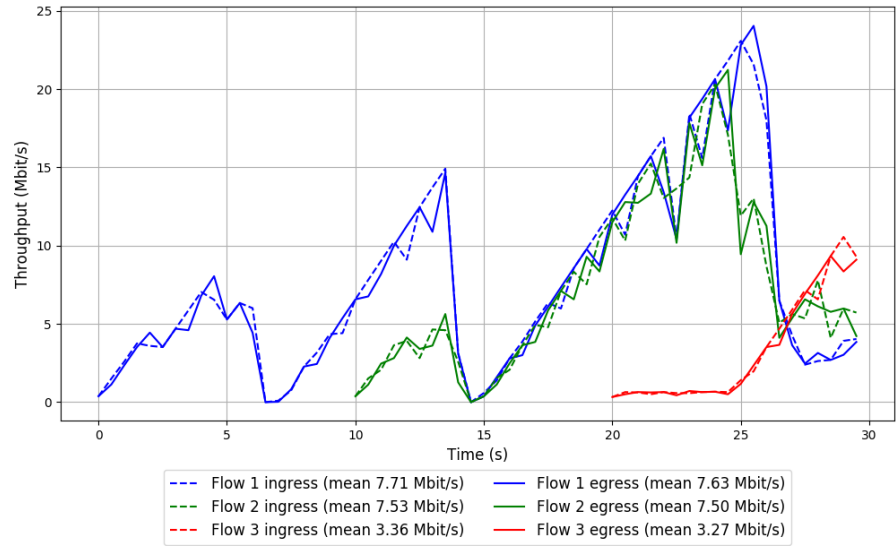
-- Flow 3:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 54.824 ms

Loss rate: 3.61%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 20:59:04

End at: 2018-01-09 20:59:34

Below is generated by plot.py at 2018-01-10 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.73 Mbit/s

95th percentile per-packet one-way delay: 54.554 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 54.567 ms

Loss rate: 2.63%

-- Flow 2:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 54.596 ms

Loss rate: 2.60%

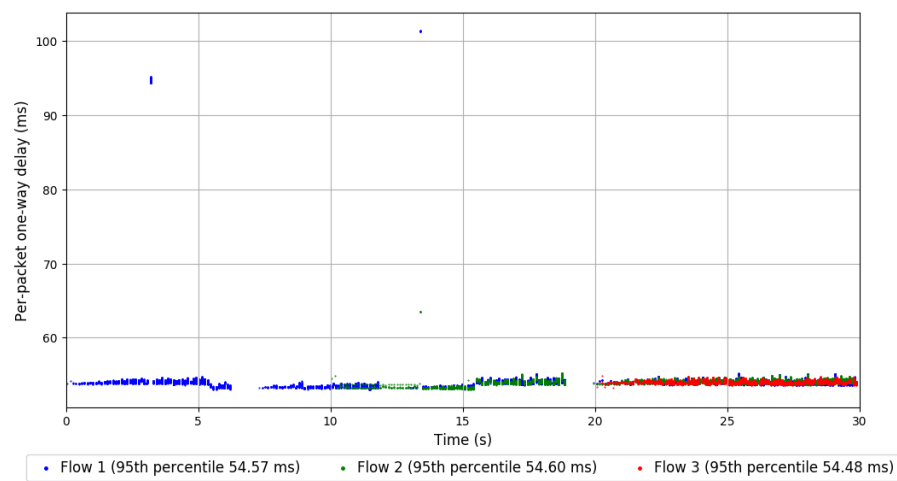
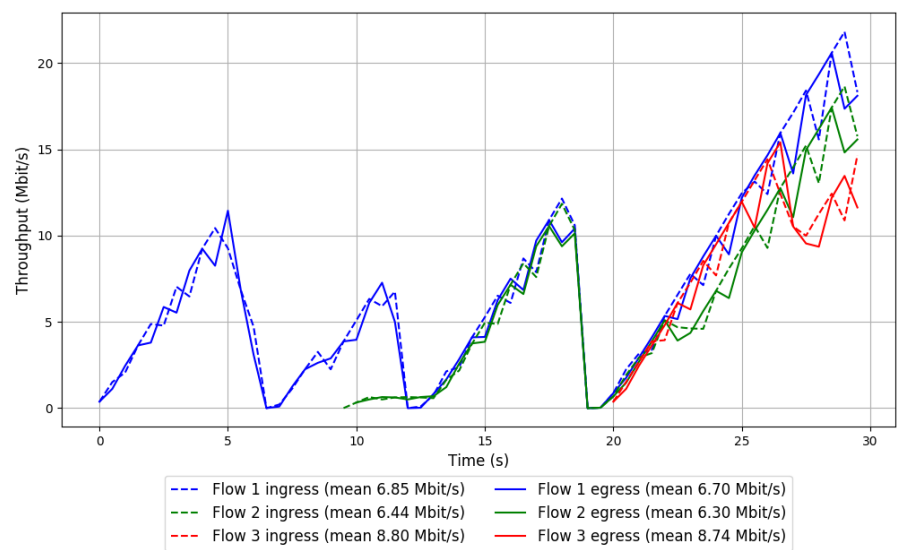
-- Flow 3:

Average throughput: 8.74 Mbit/s

95th percentile per-packet one-way delay: 54.475 ms

Loss rate: 1.73%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 21:13:17

End at: 2018-01-09 21:13:47

Below is generated by plot.py at 2018-01-10 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 54.110 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 54.233 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 1.52%

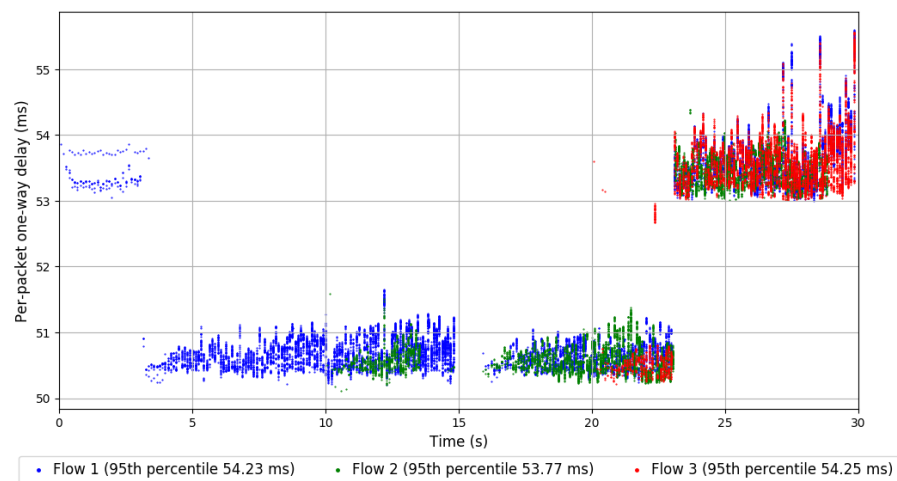
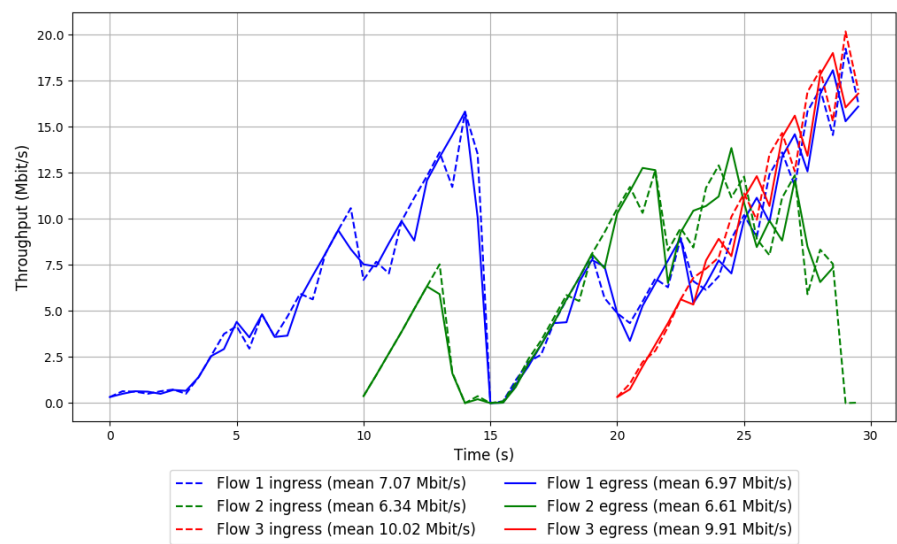
-- Flow 3:

Average throughput: 9.91 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 2.18%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-09 21:26:48

End at: 2018-01-09 21:27:18

Below is generated by plot.py at 2018-01-10 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 54.781 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 54.694 ms

Loss rate: 1.18%

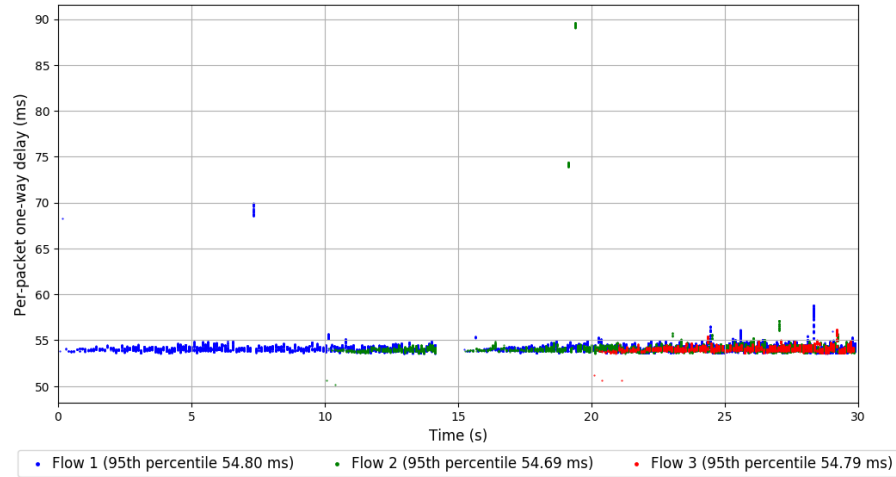
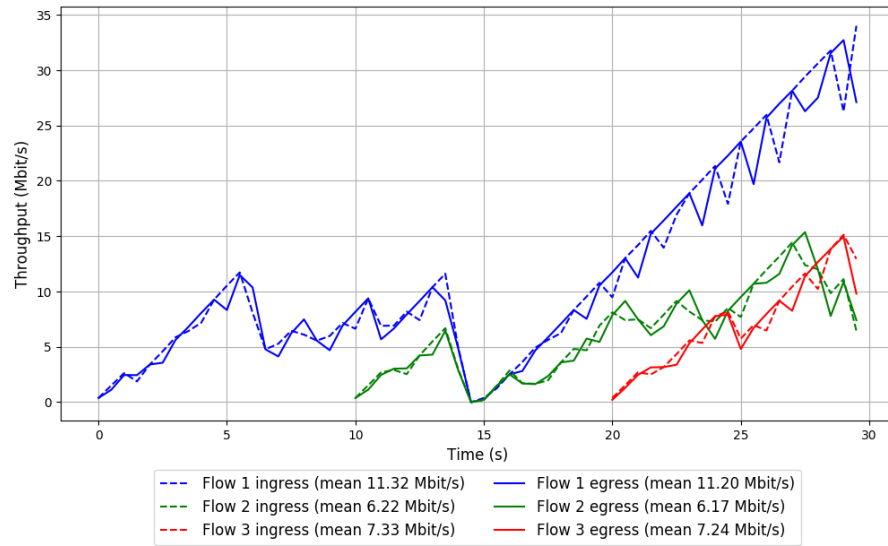
-- Flow 3:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.792 ms

Loss rate: 2.30%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-09 21:40:38

End at: 2018-01-09 21:41:08

Below is generated by plot.py at 2018-01-10 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 54.561 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.413 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 54.633 ms

Loss rate: 2.33%

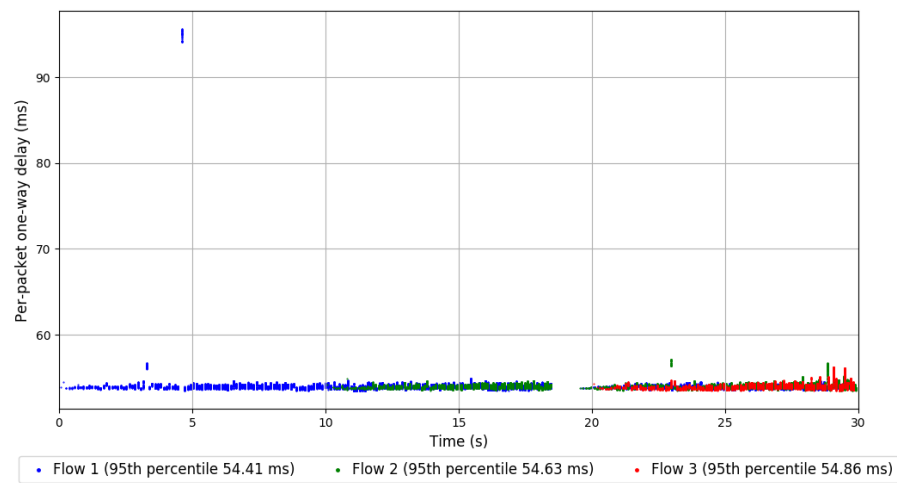
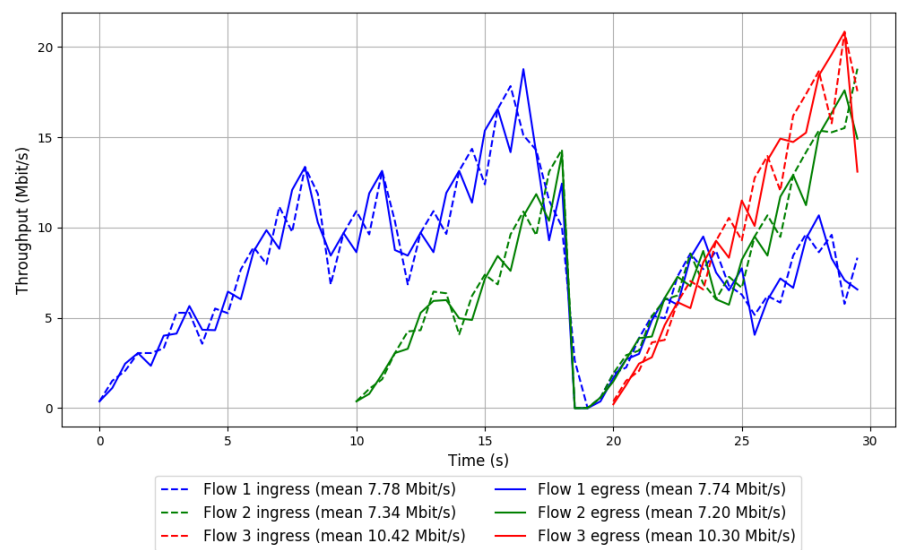
-- Flow 3:

Average throughput: 10.30 Mbit/s

95th percentile per-packet one-way delay: 54.862 ms

Loss rate: 2.17%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-09 21:54:37

End at: 2018-01-09 21:55:07

Below is generated by plot.py at 2018-01-10 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 54.399 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 54.336 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 54.477 ms

Loss rate: 1.55%

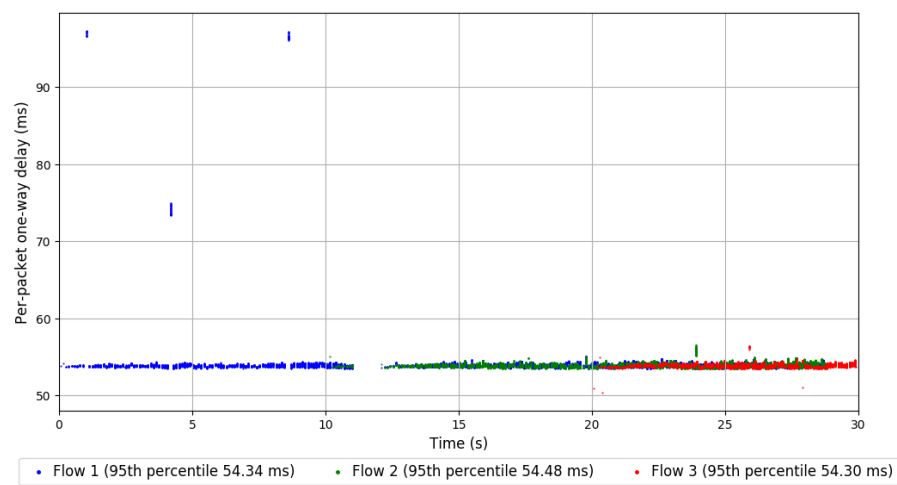
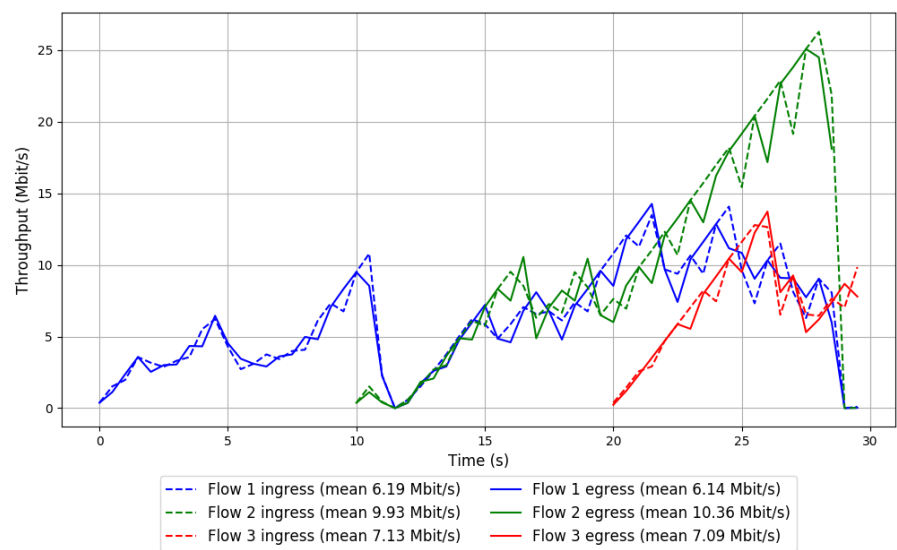
-- Flow 3:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 54.300 ms

Loss rate: 1.54%

Run 9: Report of LEDBAT — Data Link

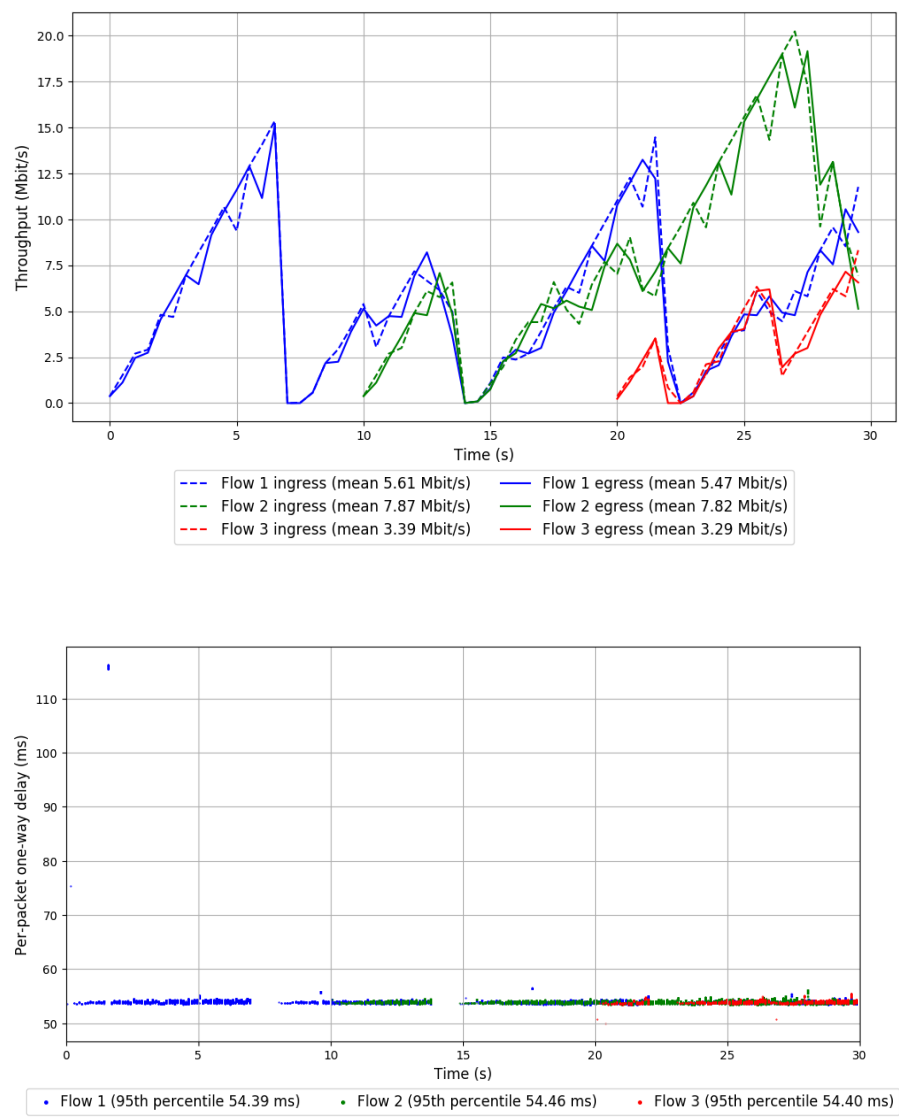


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-09 22:08:13
End at: 2018-01-09 22:08:43

# Below is generated by plot.py at 2018-01-10 01:06:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 54.438 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 54.394 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 54.462 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 54.398 ms
Loss rate: 3.91%
```

Run 10: Report of LEDBAT — Data Link

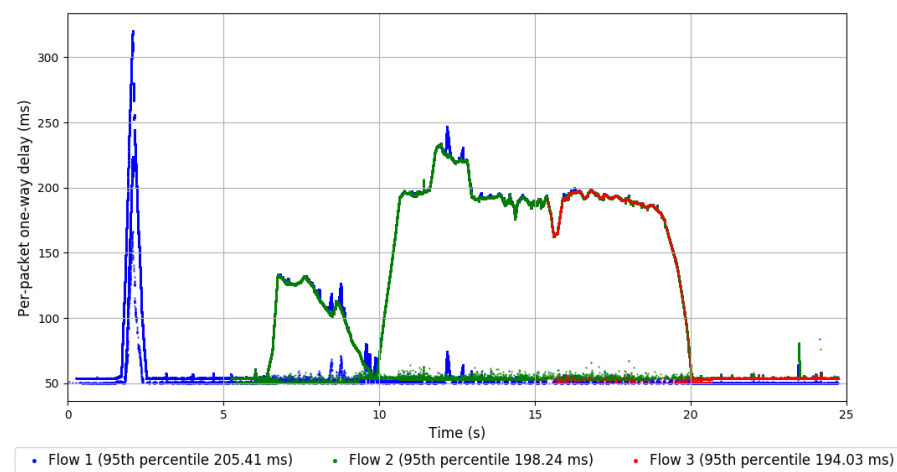
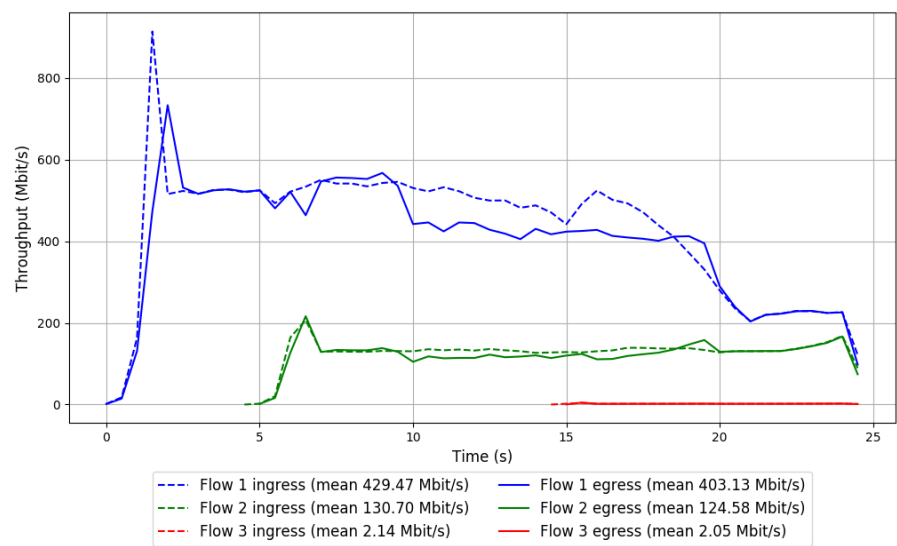


```
Run 1: Statistics of PCC

Start at: 2018-01-09 20:09:14
End at: 2018-01-09 20:09:44

# Below is generated by plot.py at 2018-01-10 01:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 503.47 Mbit/s
95th percentile per-packet one-way delay: 203.907 ms
Loss rate: 6.26%
-- Flow 1:
Average throughput: 403.13 Mbit/s
95th percentile per-packet one-way delay: 205.407 ms
Loss rate: 6.52%
-- Flow 2:
Average throughput: 124.58 Mbit/s
95th percentile per-packet one-way delay: 198.238 ms
Loss rate: 5.20%
-- Flow 3:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 194.031 ms
Loss rate: 5.26%
```

Run 1: Report of PCC — Data Link

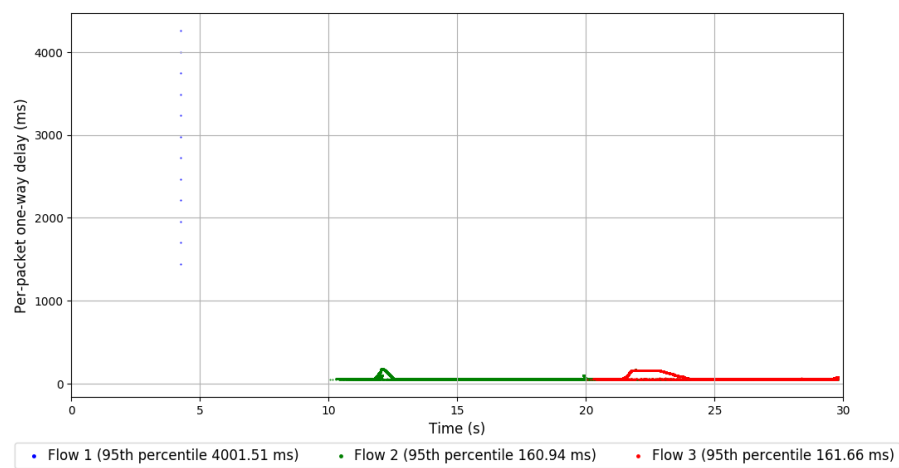
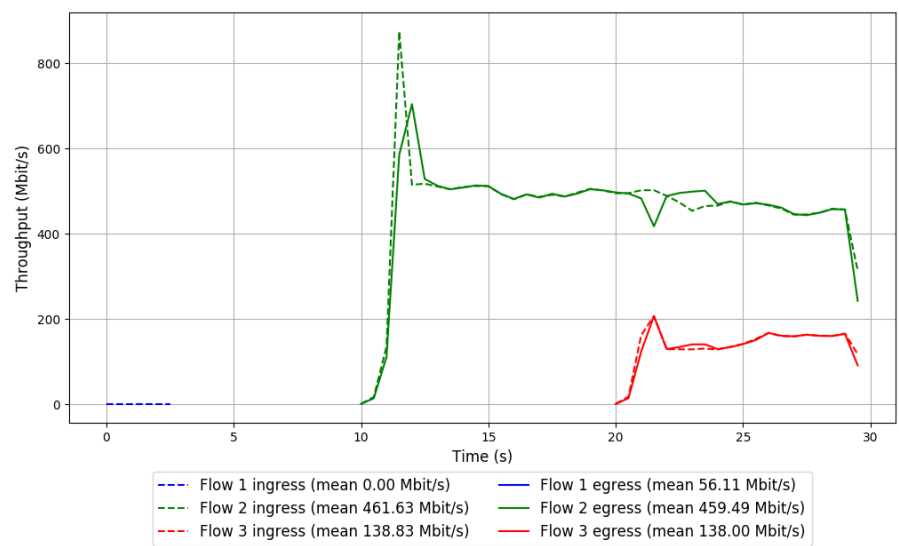


```
Run 2: Statistics of PCC

Start at: 2018-01-09 20:22:47
End at: 2018-01-09 20:23:17

# Below is generated by plot.py at 2018-01-10 01:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 407.64 Mbit/s
95th percentile per-packet one-way delay: 161.244 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 4001.511 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 459.49 Mbit/s
95th percentile per-packet one-way delay: 160.936 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 138.00 Mbit/s
95th percentile per-packet one-way delay: 161.661 ms
Loss rate: 1.65%
```

Run 2: Report of PCC — Data Link

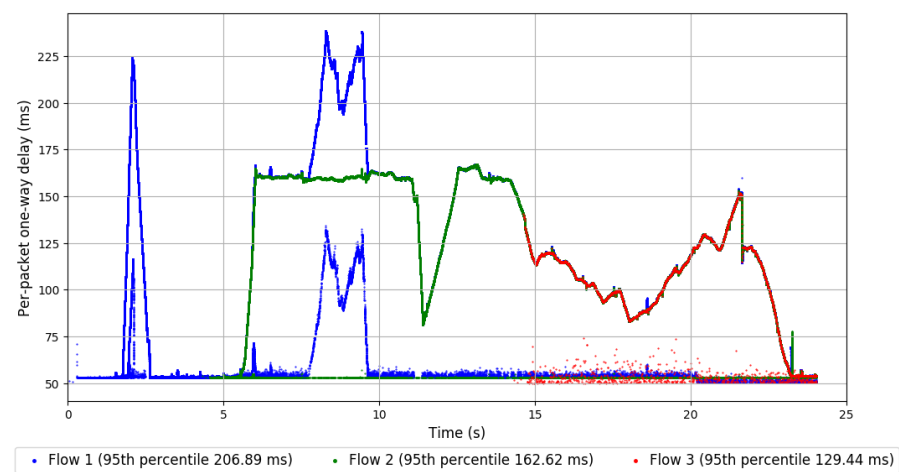
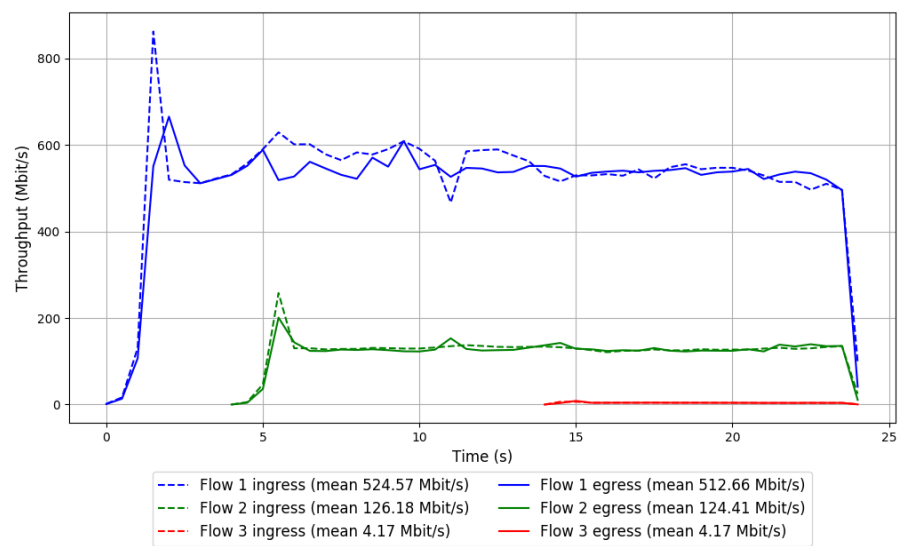


Run 3: Statistics of PCC

Start at: 2018-01-09 20:36:34

End at: 2018-01-09 20:37:04

Run 3: Report of PCC — Data Link

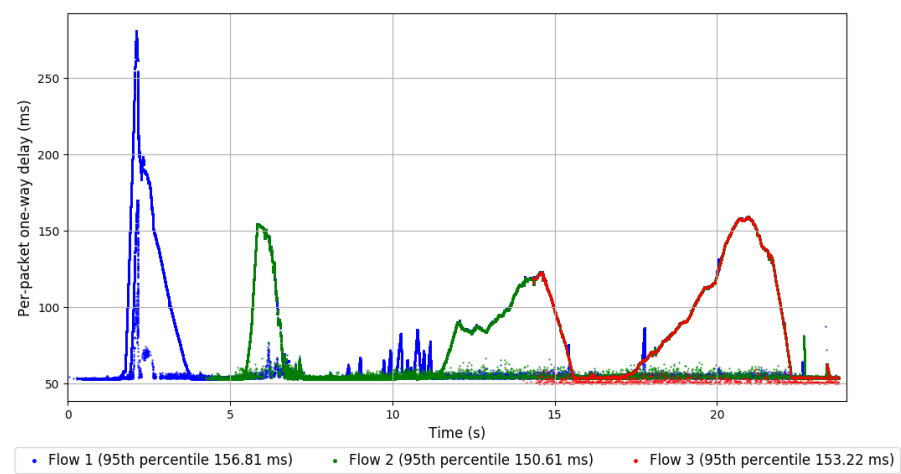
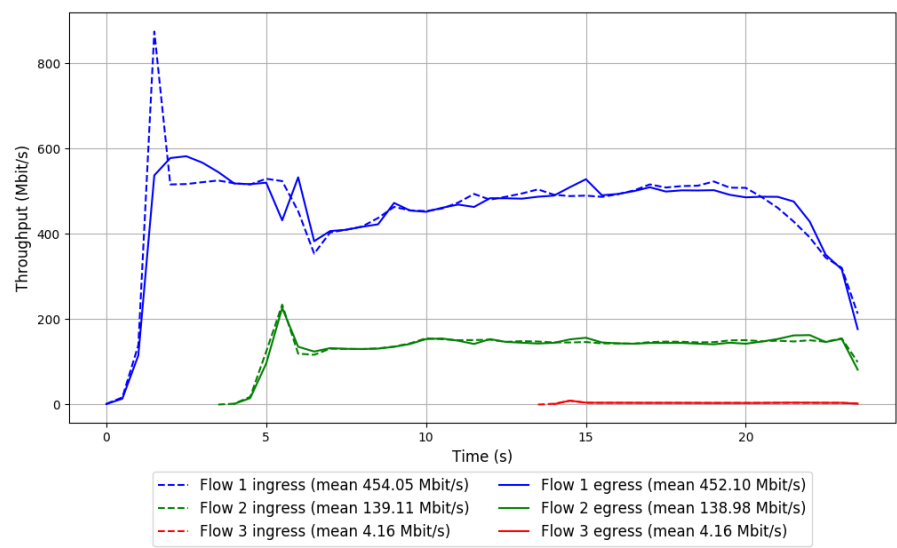


Run 4: Statistics of PCC

Start at: 2018-01-09 20:50:23

End at: 2018-01-09 20:50:53

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-09 21:03:47

End at: 2018-01-09 21:04:17

Below is generated by plot.py at 2018-01-10 01:12:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 524.43 Mbit/s

95th percentile per-packet one-way delay: 194.077 ms

Loss rate: 5.36%

-- Flow 1:

Average throughput: 471.91 Mbit/s

95th percentile per-packet one-way delay: 194.009 ms

Loss rate: 5.43%

-- Flow 2:

Average throughput: 70.71 Mbit/s

95th percentile per-packet one-way delay: 195.022 ms

Loss rate: 4.96%

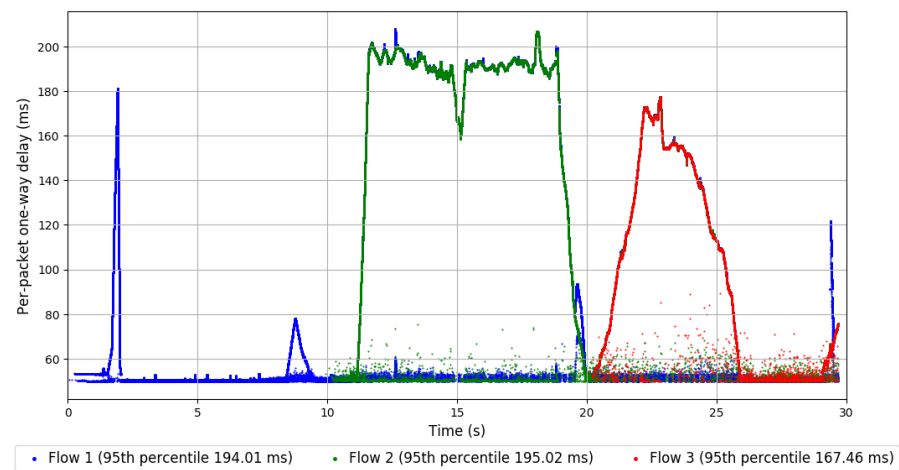
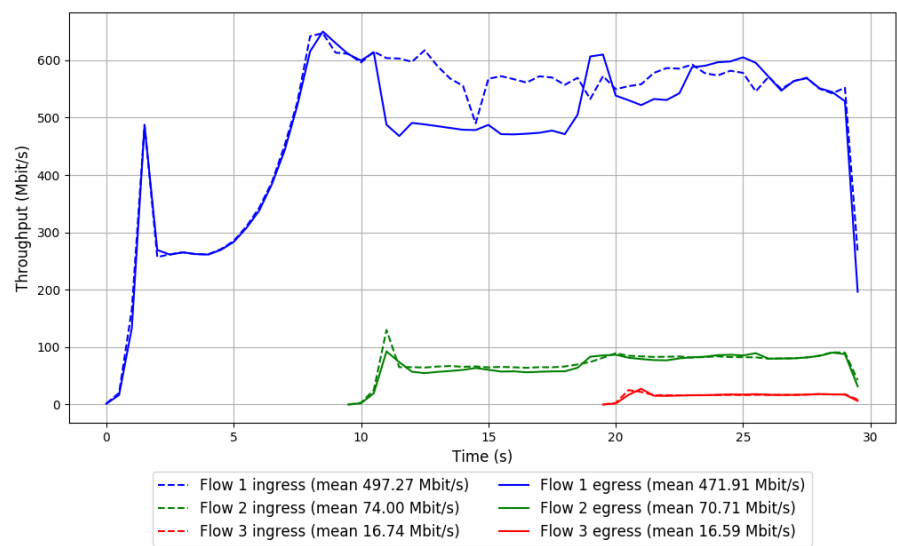
-- Flow 3:

Average throughput: 16.59 Mbit/s

95th percentile per-packet one-way delay: 167.462 ms

Loss rate: 1.93%

Run 5: Report of PCC — Data Link

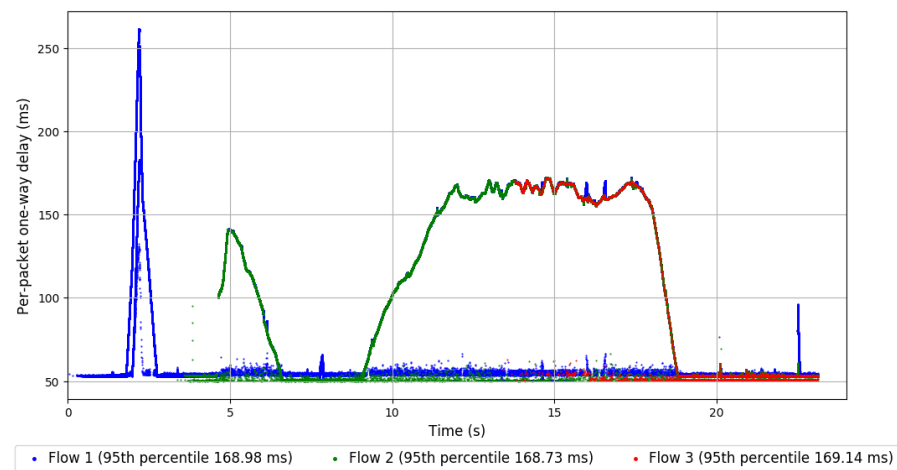
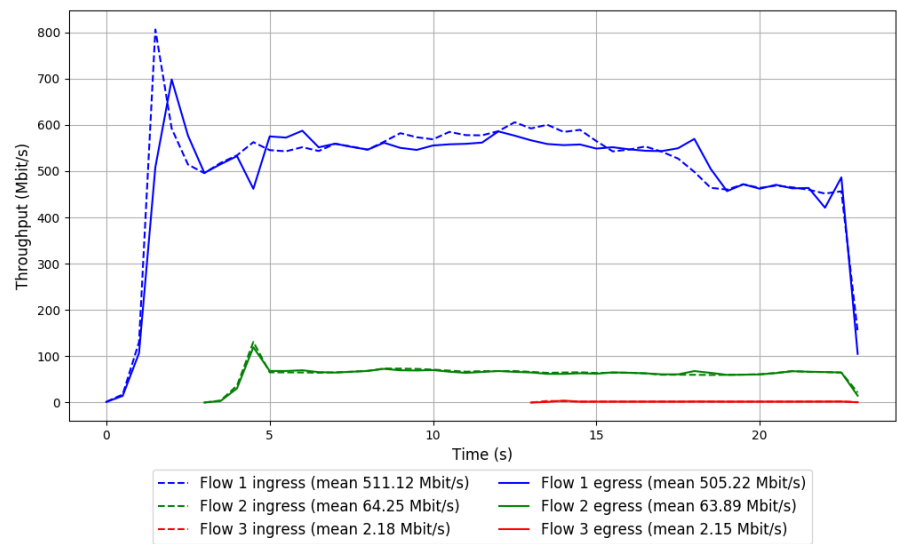


Run 6: Statistics of PCC

Start at: 2018-01-09 21:17:57

End at: 2018-01-09 21:18:27

Run 6: Report of PCC — Data Link

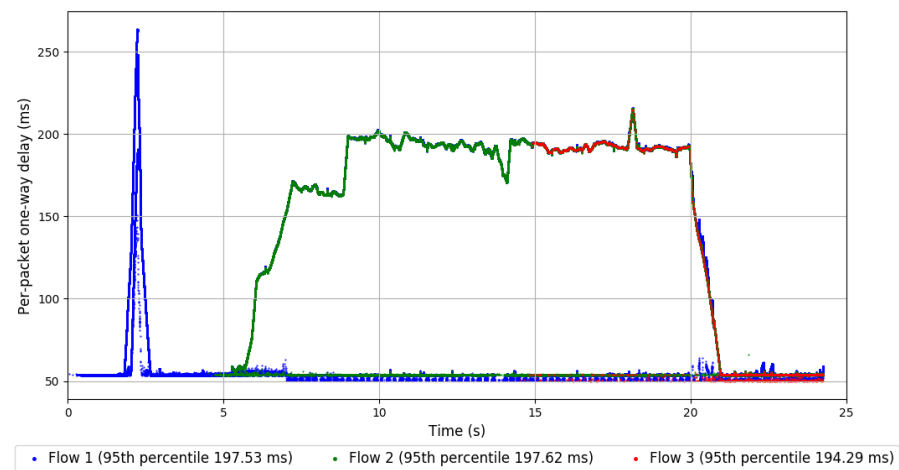
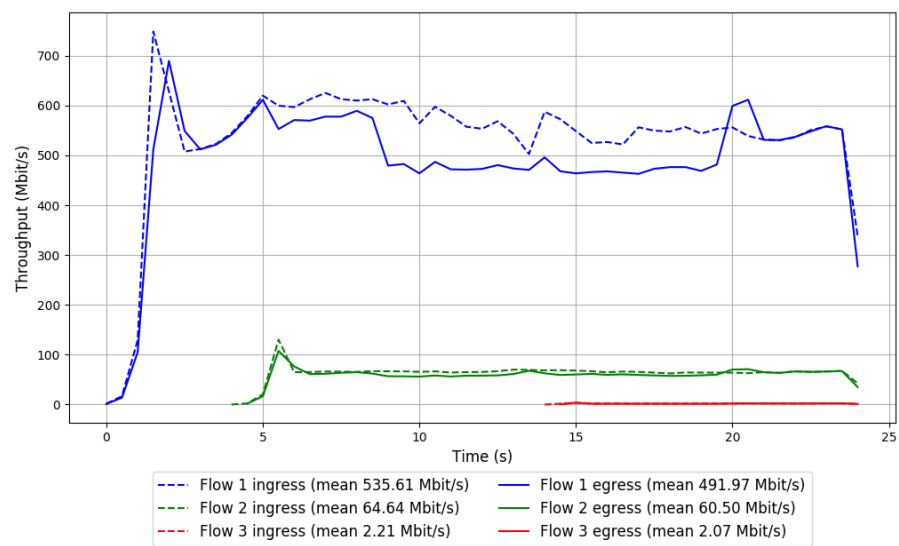


```
Run 7: Statistics of PCC

Start at: 2018-01-09 21:31:27
End at: 2018-01-09 21:31:57

# Below is generated by plot.py at 2018-01-10 01:12:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.15 Mbit/s
95th percentile per-packet one-way delay: 197.538 ms
Loss rate: 8.41%
-- Flow 1:
Average throughput: 491.97 Mbit/s
95th percentile per-packet one-way delay: 197.529 ms
Loss rate: 8.56%
-- Flow 2:
Average throughput: 60.50 Mbit/s
95th percentile per-packet one-way delay: 197.622 ms
Loss rate: 6.92%
-- Flow 3:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 194.287 ms
Loss rate: 7.52%
```


Run 7: Report of PCC — Data Link

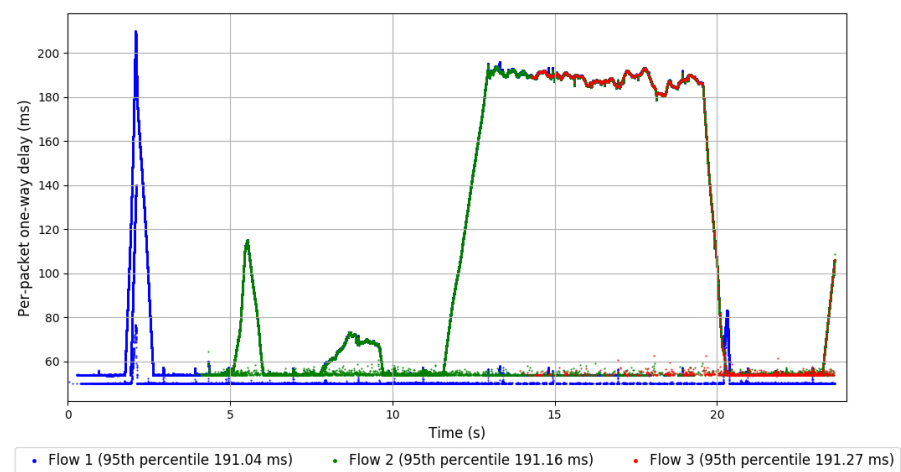
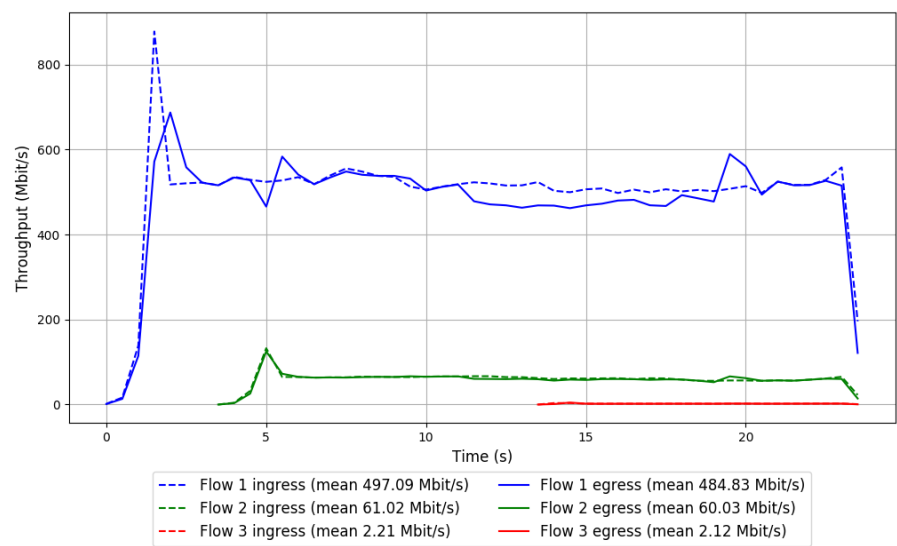


Run 8: Statistics of PCC

Start at: 2018-01-09 21:45:16

End at: 2018-01-09 21:45:46

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-09 21:59:14

End at: 2018-01-09 21:59:44

Below is generated by plot.py at 2018-01-10 01:16:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 537.81 Mbit/s

95th percentile per-packet one-way delay: 159.414 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 296.55 Mbit/s

95th percentile per-packet one-way delay: 156.496 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 281.90 Mbit/s

95th percentile per-packet one-way delay: 161.174 ms

Loss rate: 0.76%

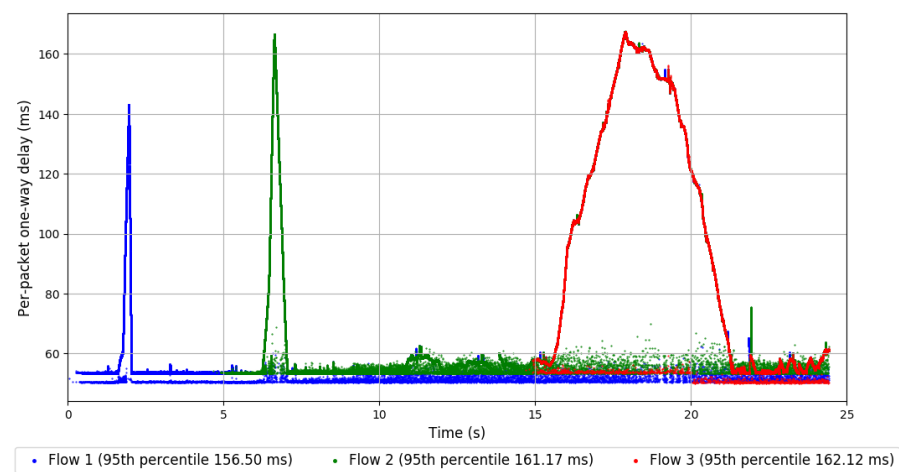
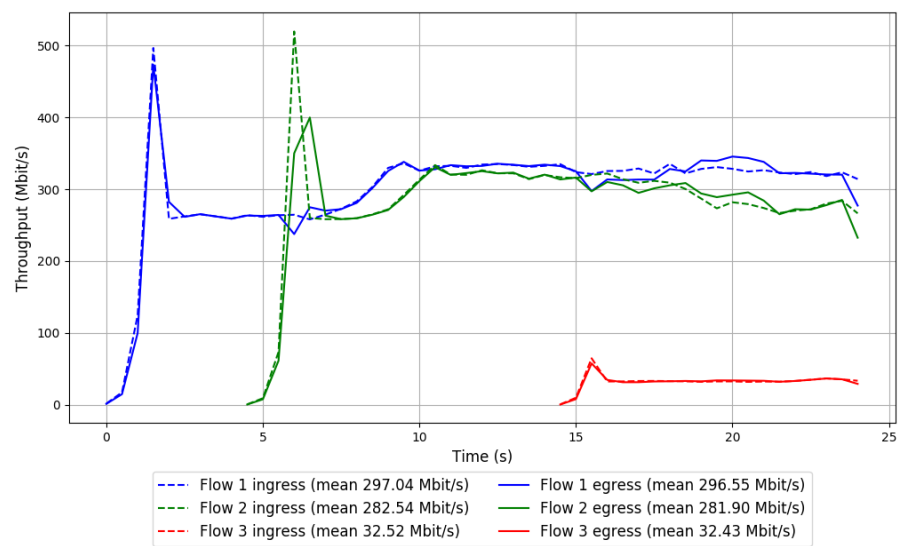
-- Flow 3:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 162.117 ms

Loss rate: 1.37%

Run 9: Report of PCC — Data Link

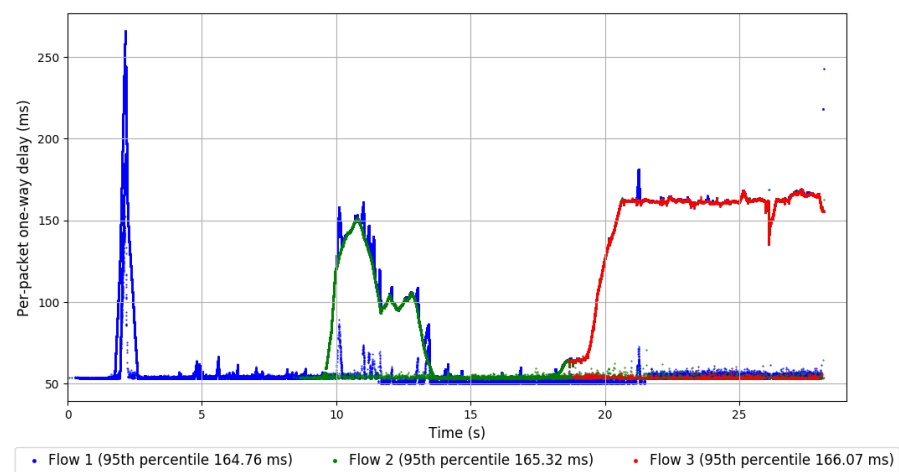
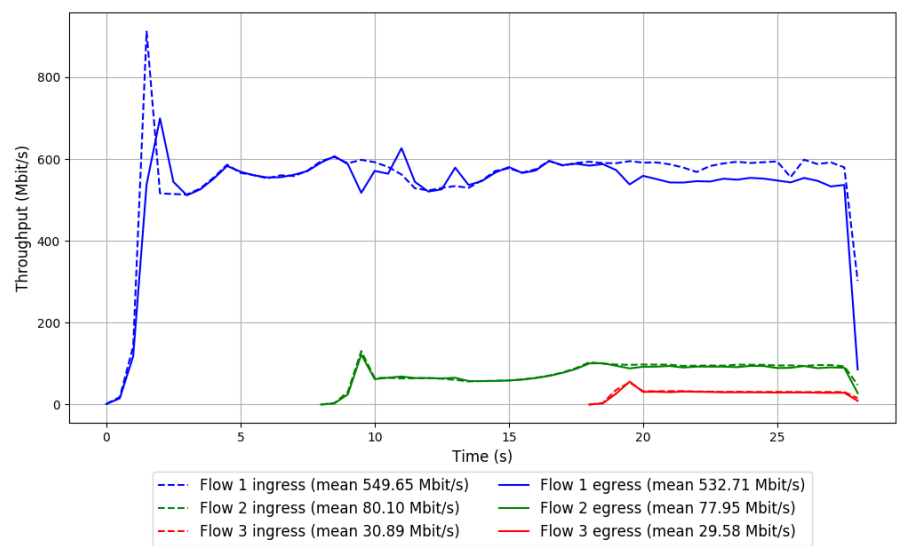


```
Run 10: Statistics of PCC

Start at: 2018-01-09 22:12:55
End at: 2018-01-09 22:13:25

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 597.70 Mbit/s
95th percentile per-packet one-way delay: 164.922 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 532.71 Mbit/s
95th percentile per-packet one-way delay: 164.760 ms
Loss rate: 3.61%
-- Flow 2:
Average throughput: 77.95 Mbit/s
95th percentile per-packet one-way delay: 165.320 ms
Loss rate: 3.48%
-- Flow 3:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 166.069 ms
Loss rate: 5.89%
```

Run 10: Report of PCC — Data Link

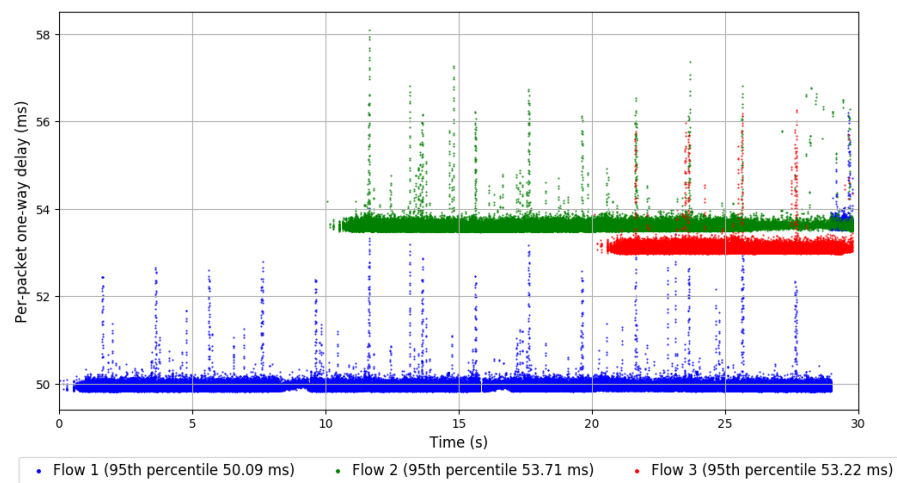
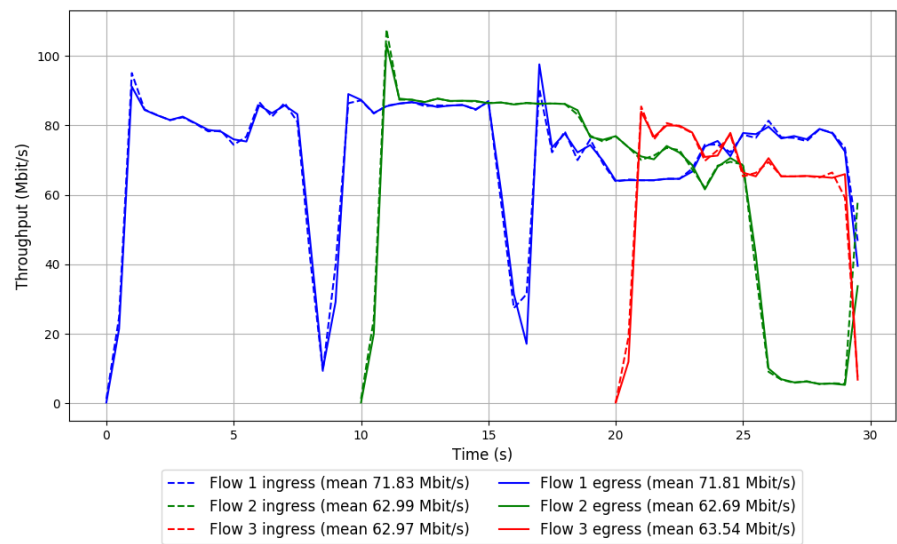


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 20:13:09
End at: 2018-01-09 20:13:39

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.10 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 71.81 Mbit/s
95th percentile per-packet one-way delay: 50.088 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 53.714 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 63.54 Mbit/s
95th percentile per-packet one-way delay: 53.219 ms
Loss rate: 0.17%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 20:26:38

End at: 2018-01-09 20:27:08

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.78 Mbit/s

95th percentile per-packet one-way delay: 53.659 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 65.37 Mbit/s

95th percentile per-packet one-way delay: 53.658 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.82%

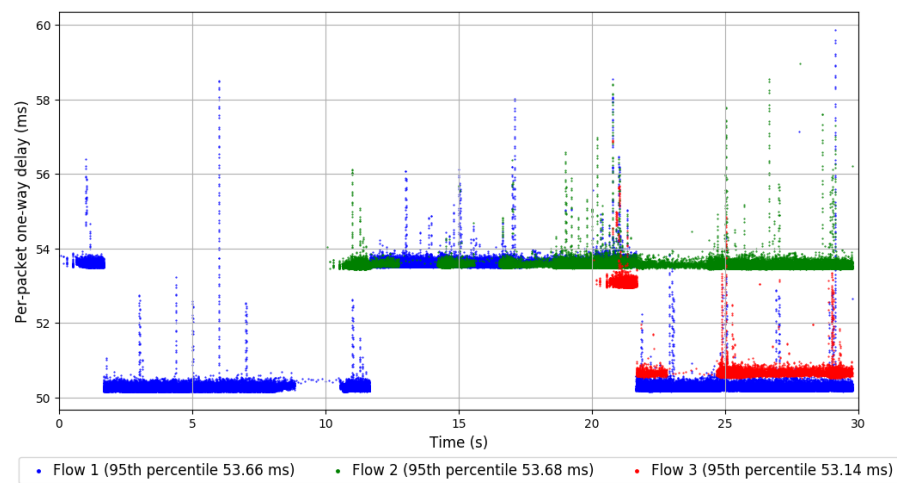
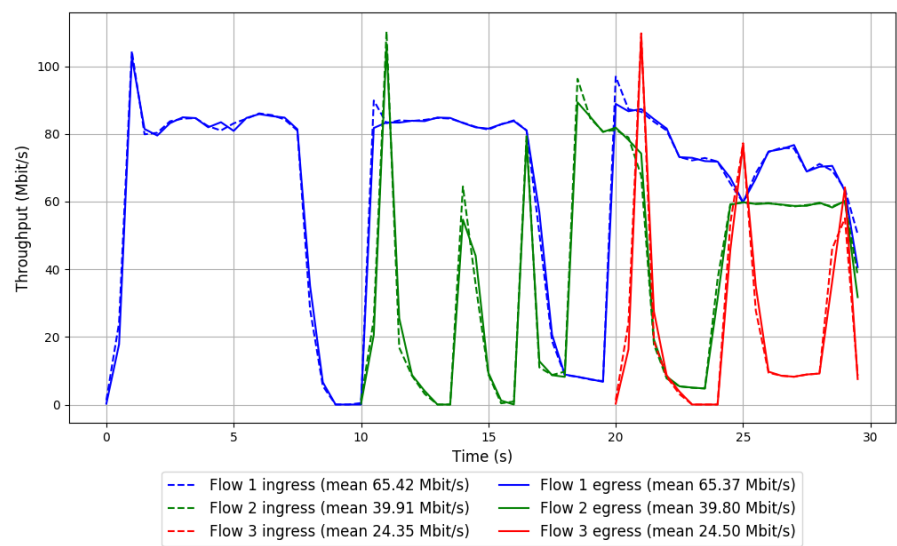
-- Flow 3:

Average throughput: 24.50 Mbit/s

95th percentile per-packet one-way delay: 53.138 ms

Loss rate: 0.49%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 20:40:30

End at: 2018-01-09 20:41:00

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.89 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 53.694 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 53.734 ms

Loss rate: 0.07%

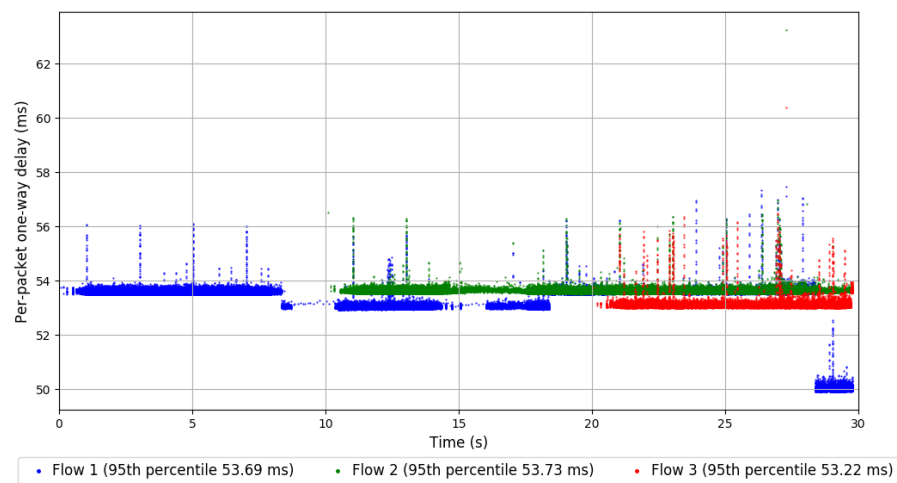
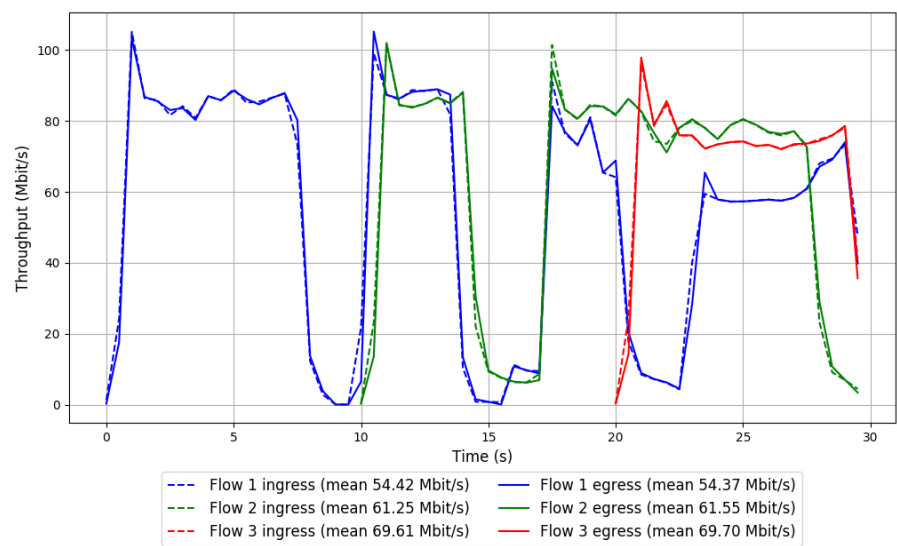
-- Flow 3:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 53.223 ms

Loss rate: 0.97%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 20:54:17

End at: 2018-01-09 20:54:47

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.17 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 56.50 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 54.01 Mbit/s

95th percentile per-packet one-way delay: 53.738 ms

Loss rate: 0.66%

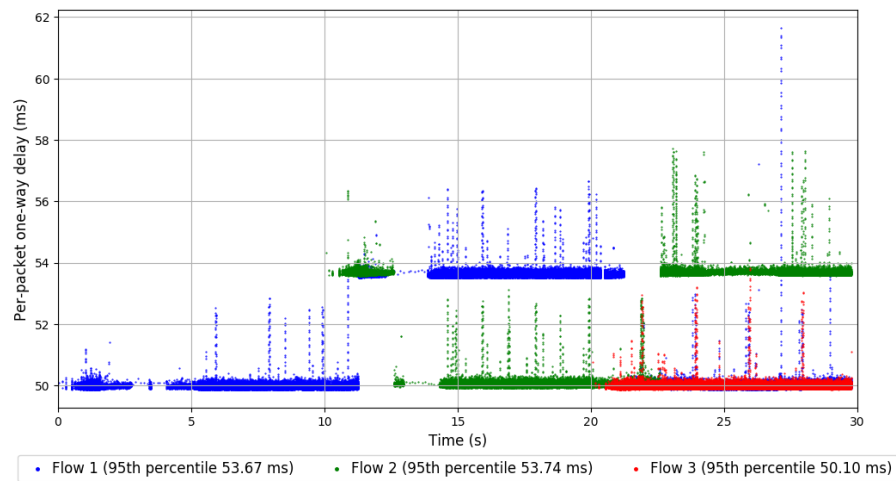
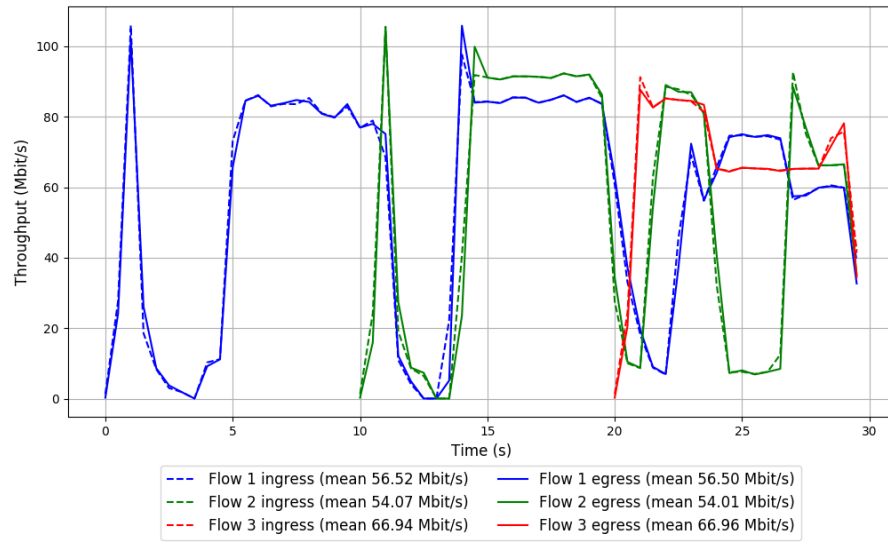
-- Flow 3:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 1.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 21:07:48

End at: 2018-01-09 21:08:18

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.12 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 45.25 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 69.65 Mbit/s

95th percentile per-packet one-way delay: 53.159 ms

Loss rate: 0.63%

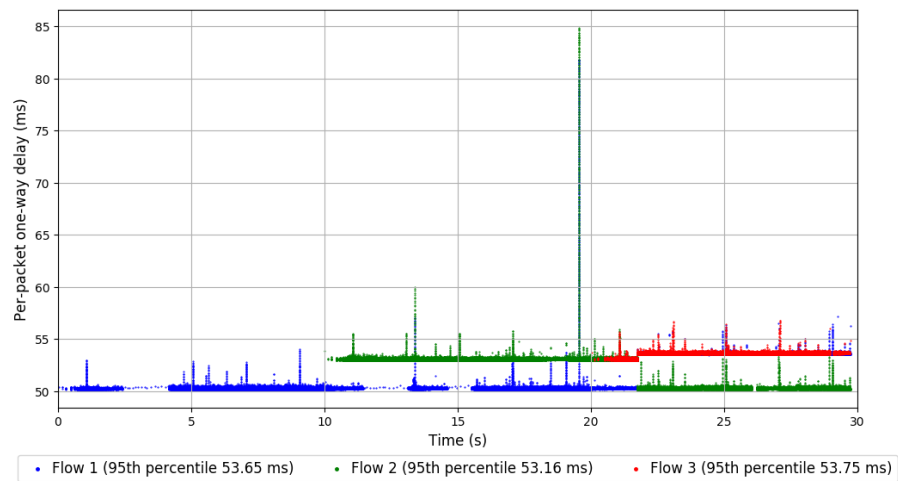
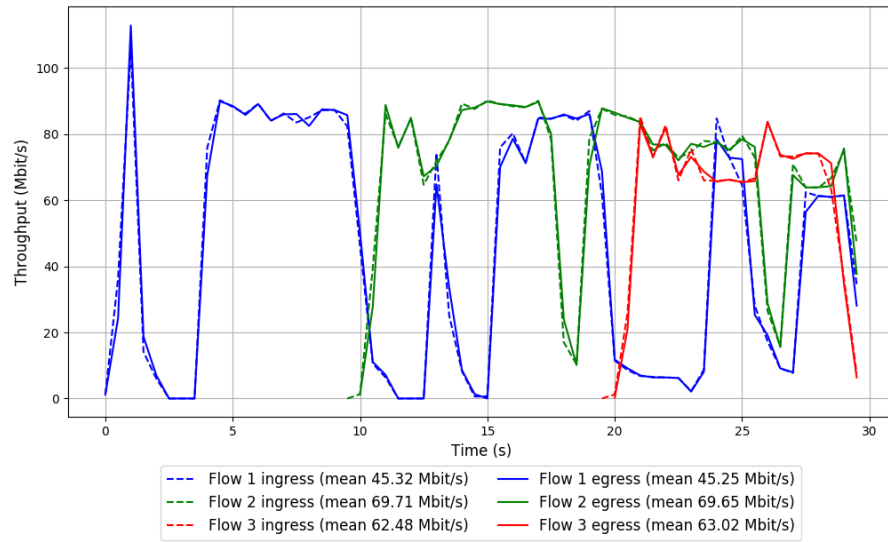
-- Flow 3:

Average throughput: 63.02 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.23%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 21:21:50

End at: 2018-01-09 21:22:20

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.88 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 67.89 Mbit/s

95th percentile per-packet one-way delay: 53.659 ms

Loss rate: 0.86%

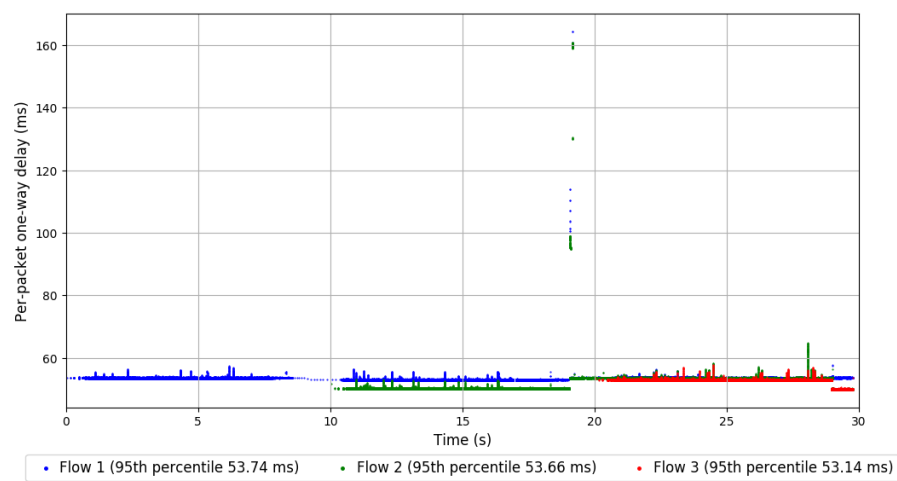
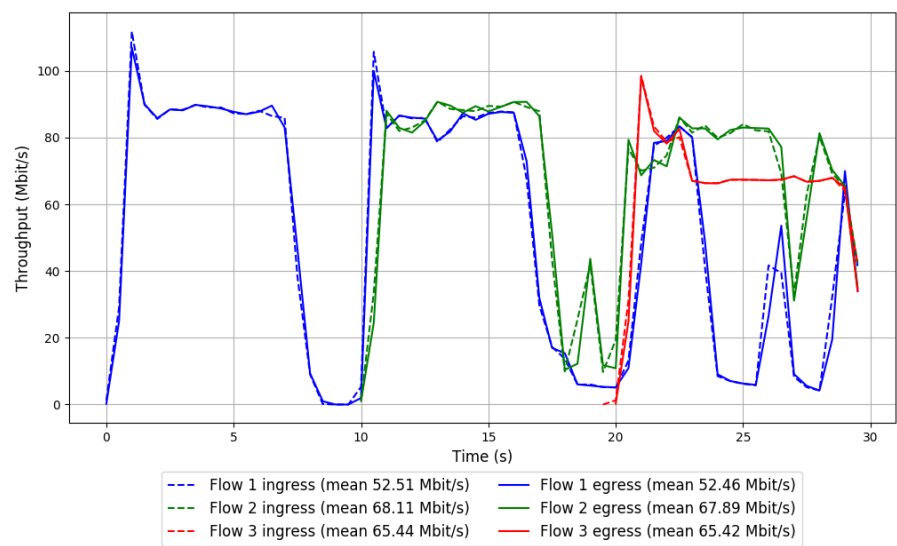
-- Flow 3:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 53.139 ms

Loss rate: 1.10%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 21:35:25

End at: 2018-01-09 21:35:55

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.10 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 53.691 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 48.93 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.11%

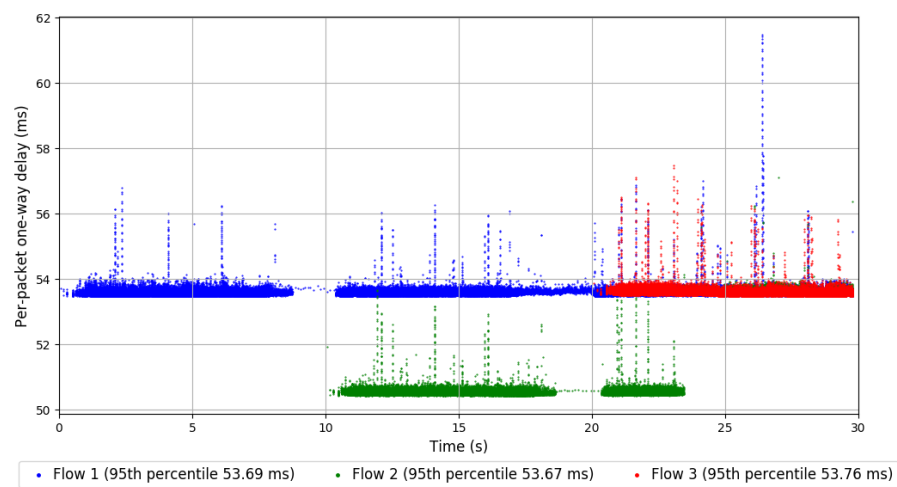
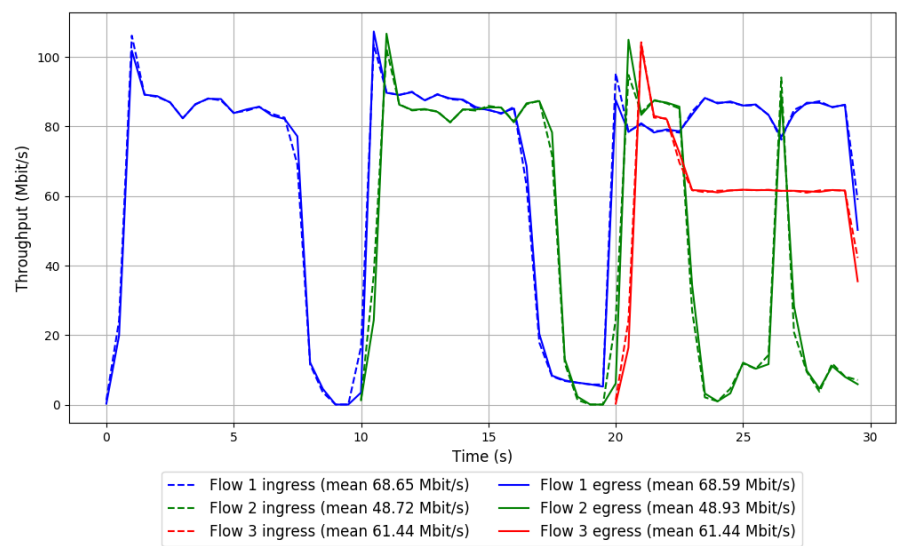
-- Flow 3:

Average throughput: 61.44 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 1.10%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 21:49:13

End at: 2018-01-09 21:49:43

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.70 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 74.52 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 51.66 Mbit/s

95th percentile per-packet one-way delay: 53.594 ms

Loss rate: 0.62%

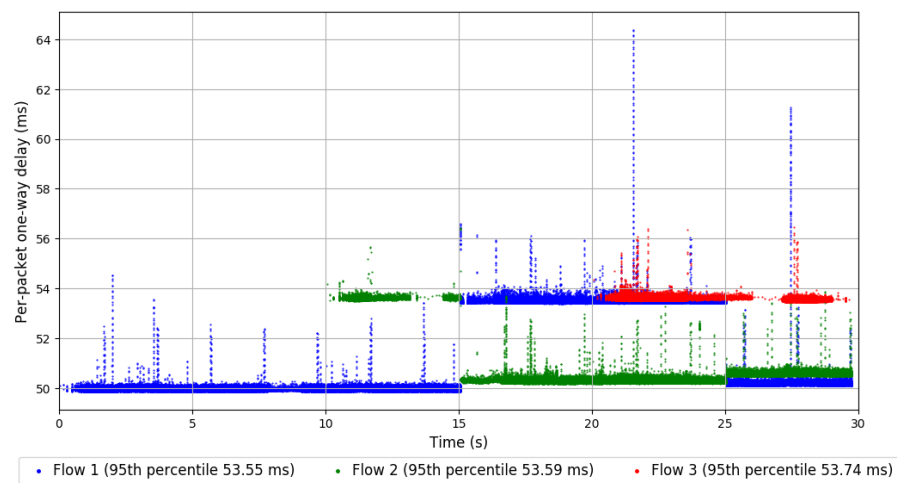
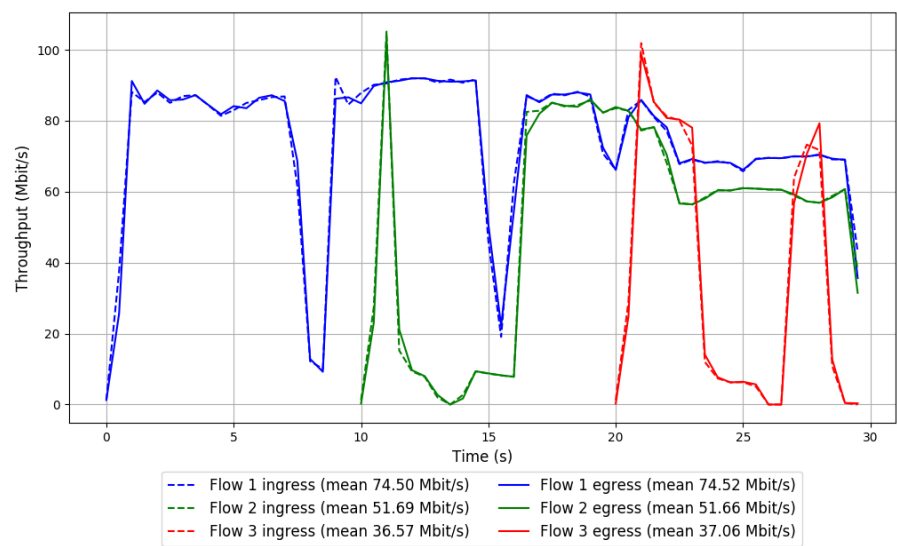
-- Flow 3:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 22:03:08

End at: 2018-01-09 22:03:38

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.04 Mbit/s

95th percentile per-packet one-way delay: 53.594 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 53.595 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 53.615 ms

Loss rate: 0.58%

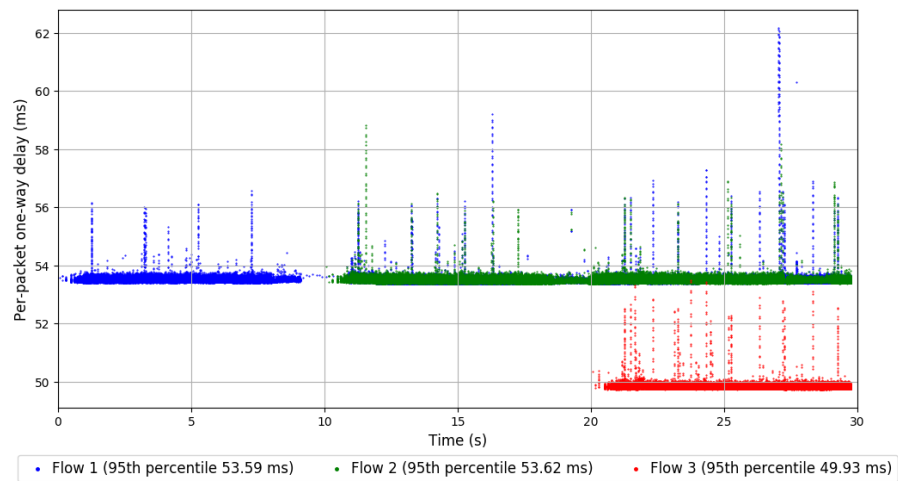
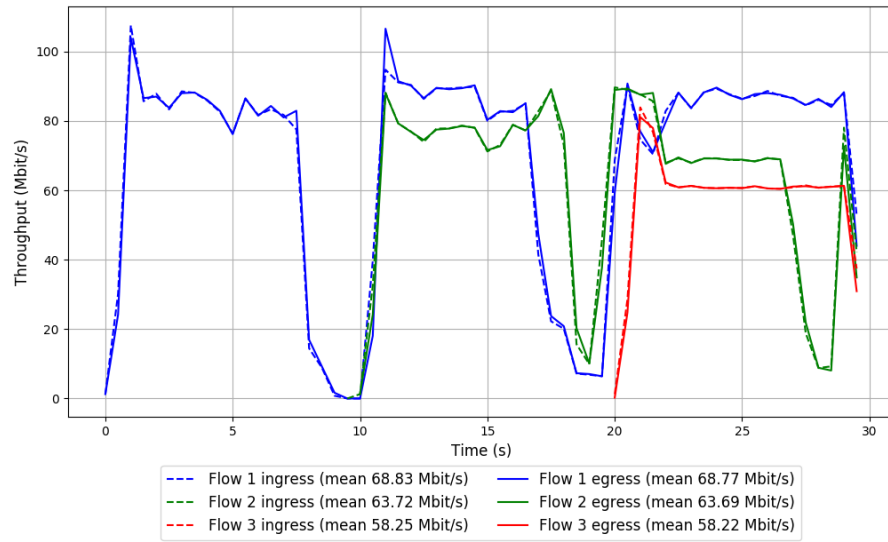
-- Flow 3:

Average throughput: 58.22 Mbit/s

95th percentile per-packet one-way delay: 49.934 ms

Loss rate: 1.10%

Run 9: Report of QUIC Cubic — Data Link

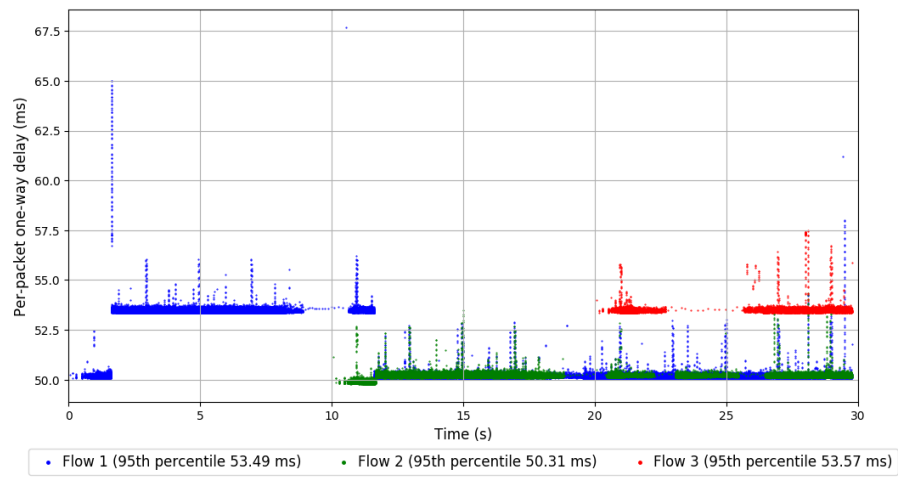
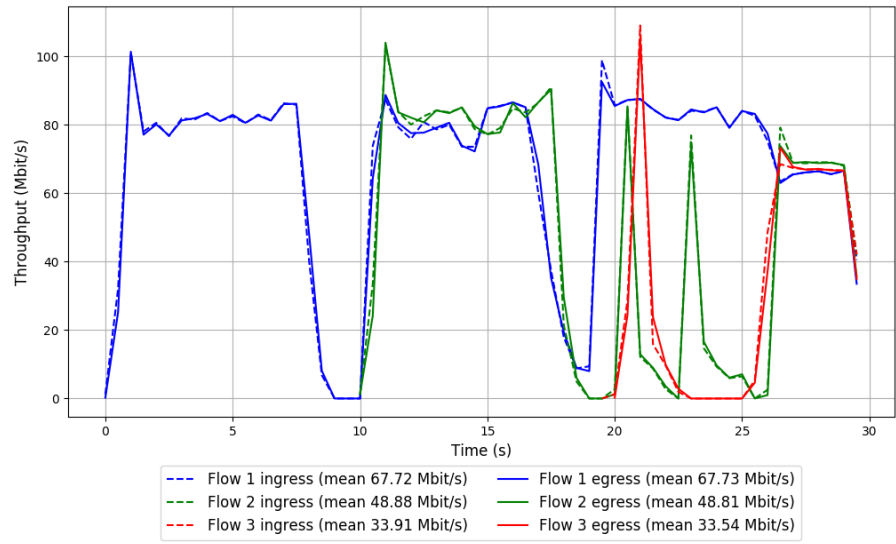


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 22:16:58
End at: 2018-01-09 22:17:28

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.06 Mbit/s
95th percentile per-packet one-way delay: 53.494 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 67.73 Mbit/s
95th percentile per-packet one-way delay: 53.489 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 48.81 Mbit/s
95th percentile per-packet one-way delay: 50.309 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 53.573 ms
Loss rate: 2.16%
```

Run 10: Report of QUIC Cubic — Data Link

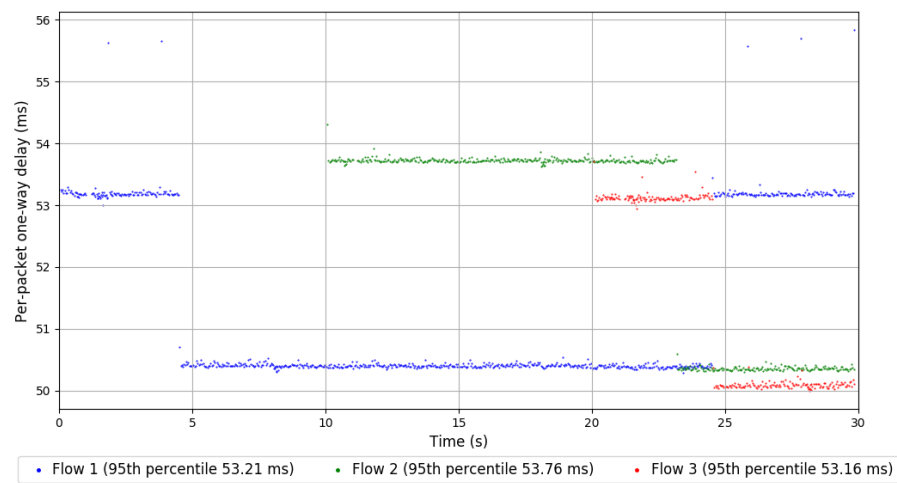
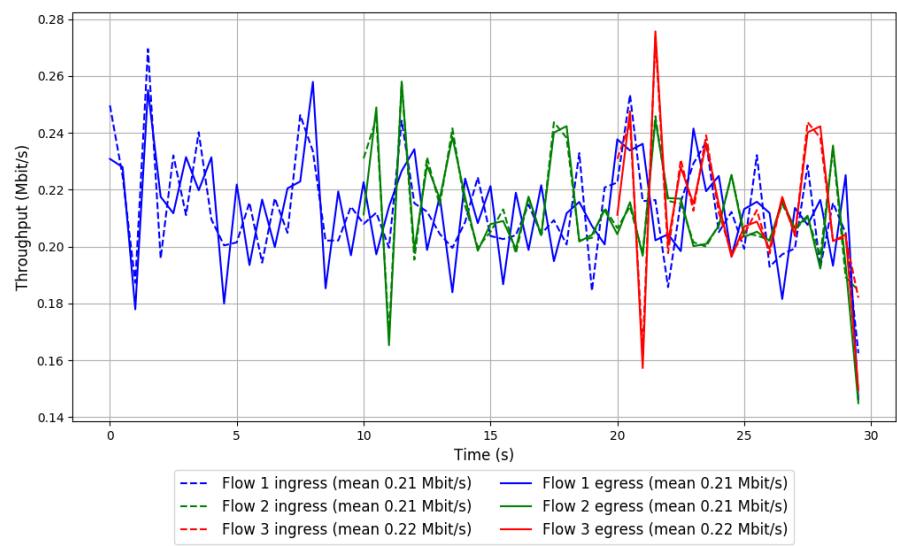


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 20:05:15
End at: 2018-01-09 20:05:45

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.733 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.207 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.159 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

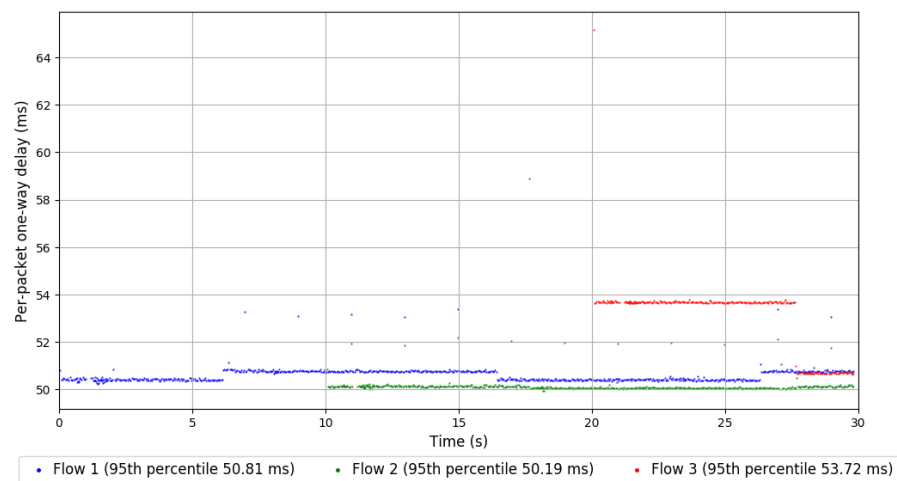
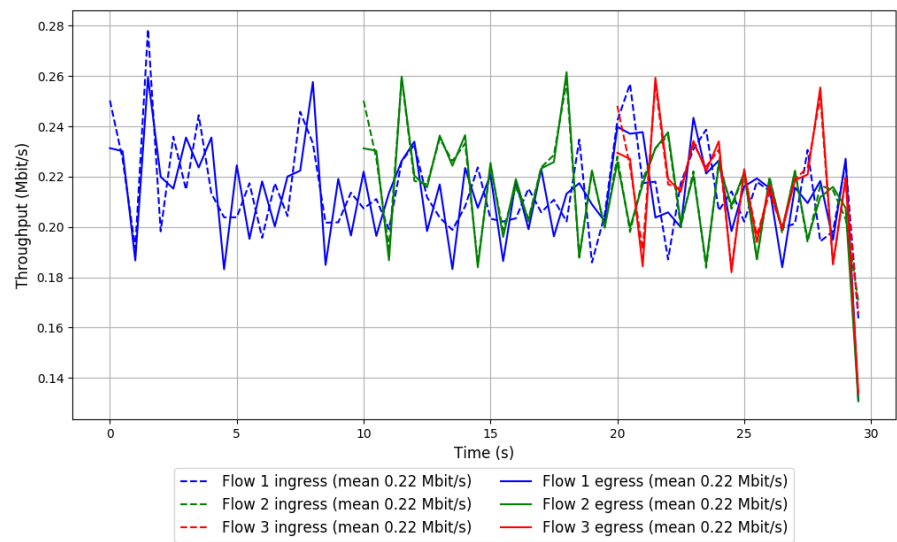


```
Run 2: Statistics of SCReAM

Start at: 2018-01-09 20:18:52
End at: 2018-01-09 20:19:22

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.673 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.809 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.188 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link

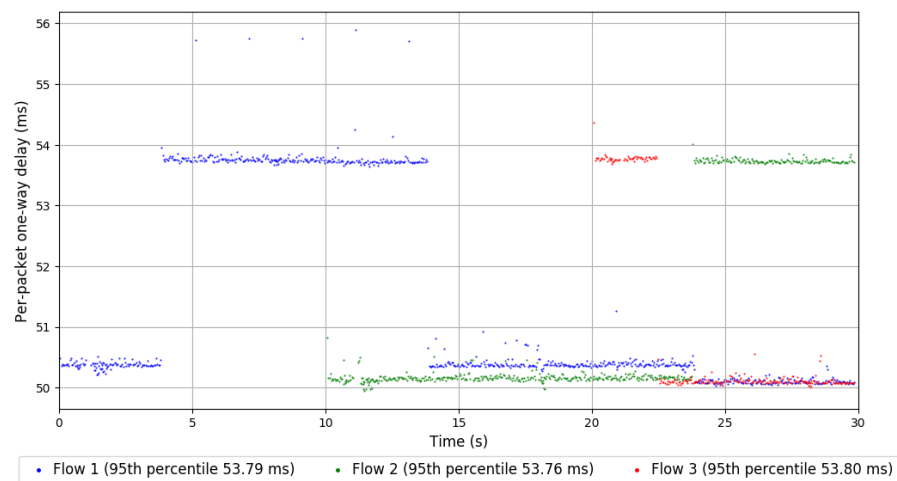
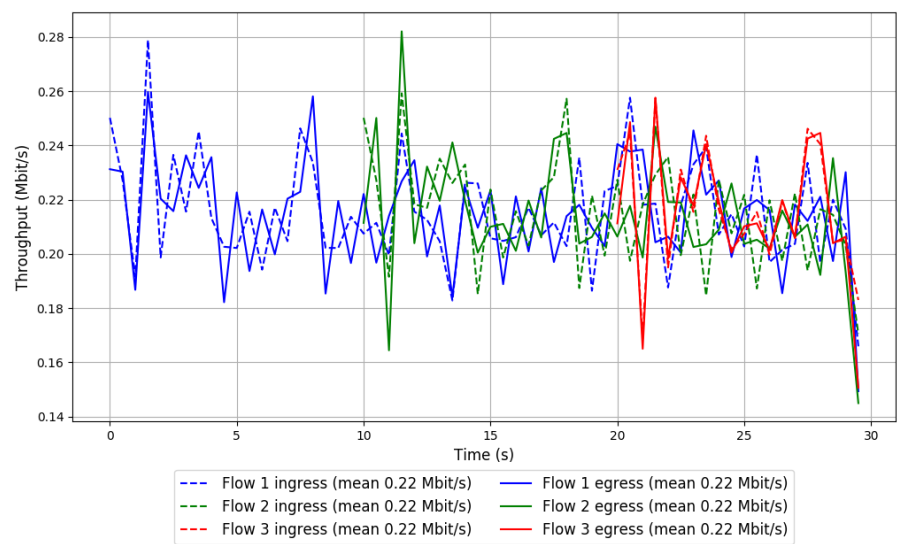


```
Run 3: Statistics of SCReAM

Start at: 2018-01-09 20:32:36
End at: 2018-01-09 20:33:06

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.759 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.799 ms
Loss rate: 1.11%
```


Run 3: Report of SReAM — Data Link

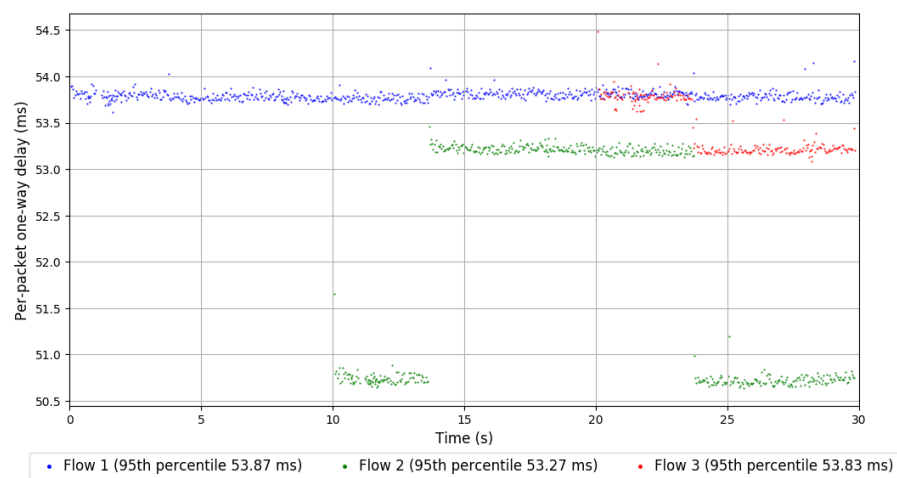
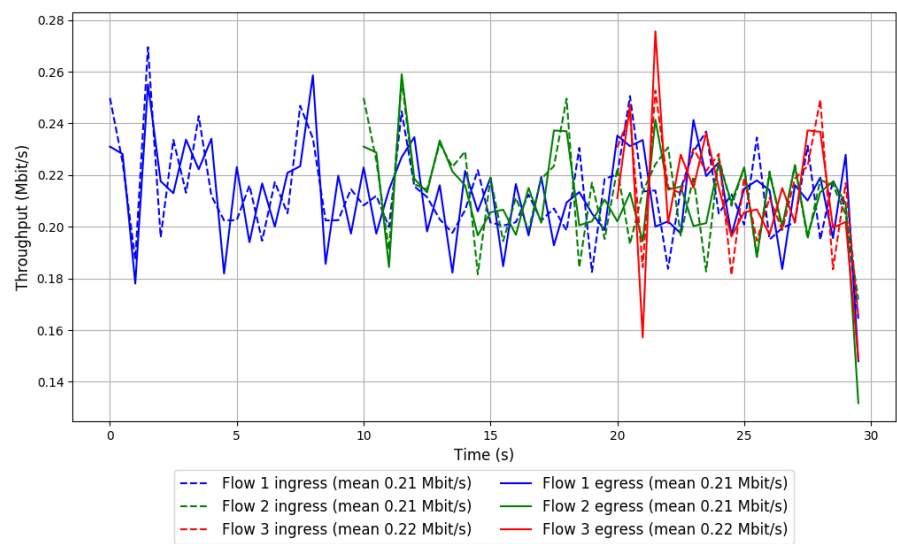


```
Run 4: Statistics of SCReAM

Start at: 2018-01-09 20:46:26
End at: 2018-01-09 20:46:56

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.267 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.834 ms
Loss rate: 1.11%
```

Run 4: Report of SCSReAM — Data Link

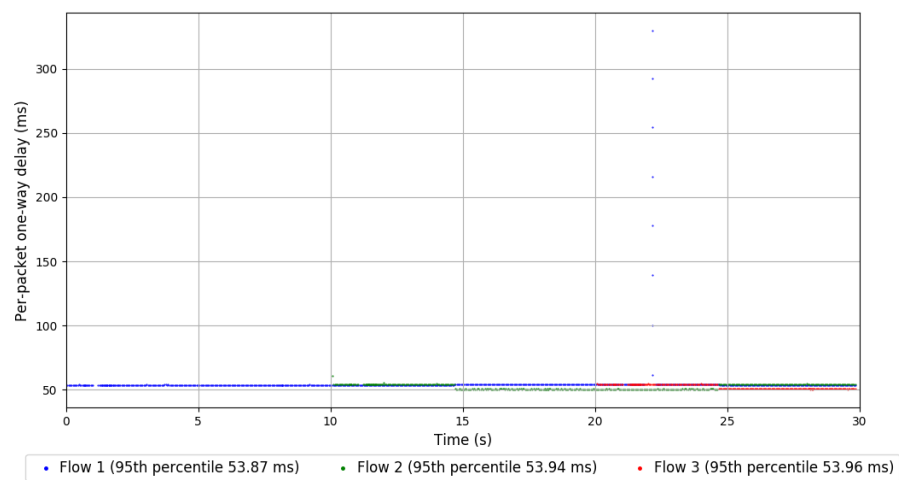
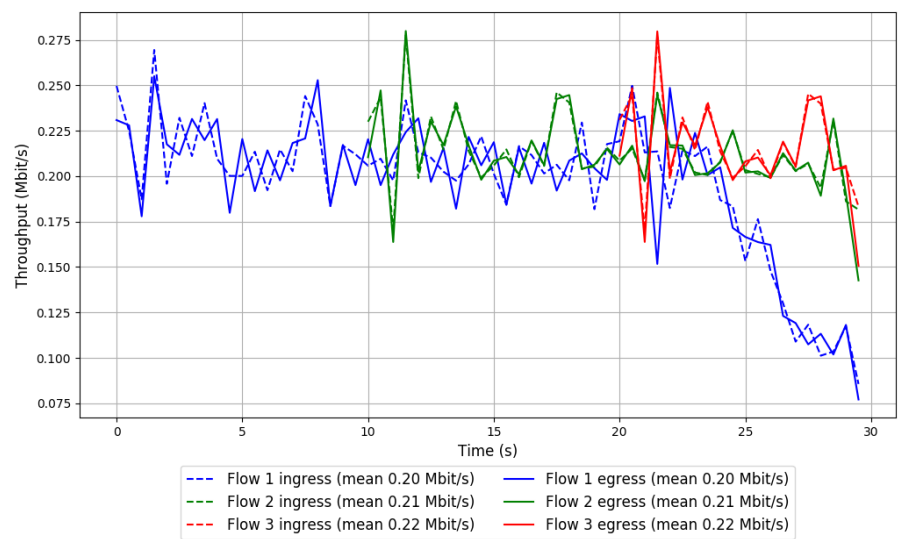


```
Run 5: Statistics of SCReAM

Start at: 2018-01-09 20:59:45
End at: 2018-01-09 21:00:15

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 53.928 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 53.868 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.961 ms
Loss rate: 1.11%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-09 21:13:57

End at: 2018-01-09 21:14:27

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.811 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.802 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.43%

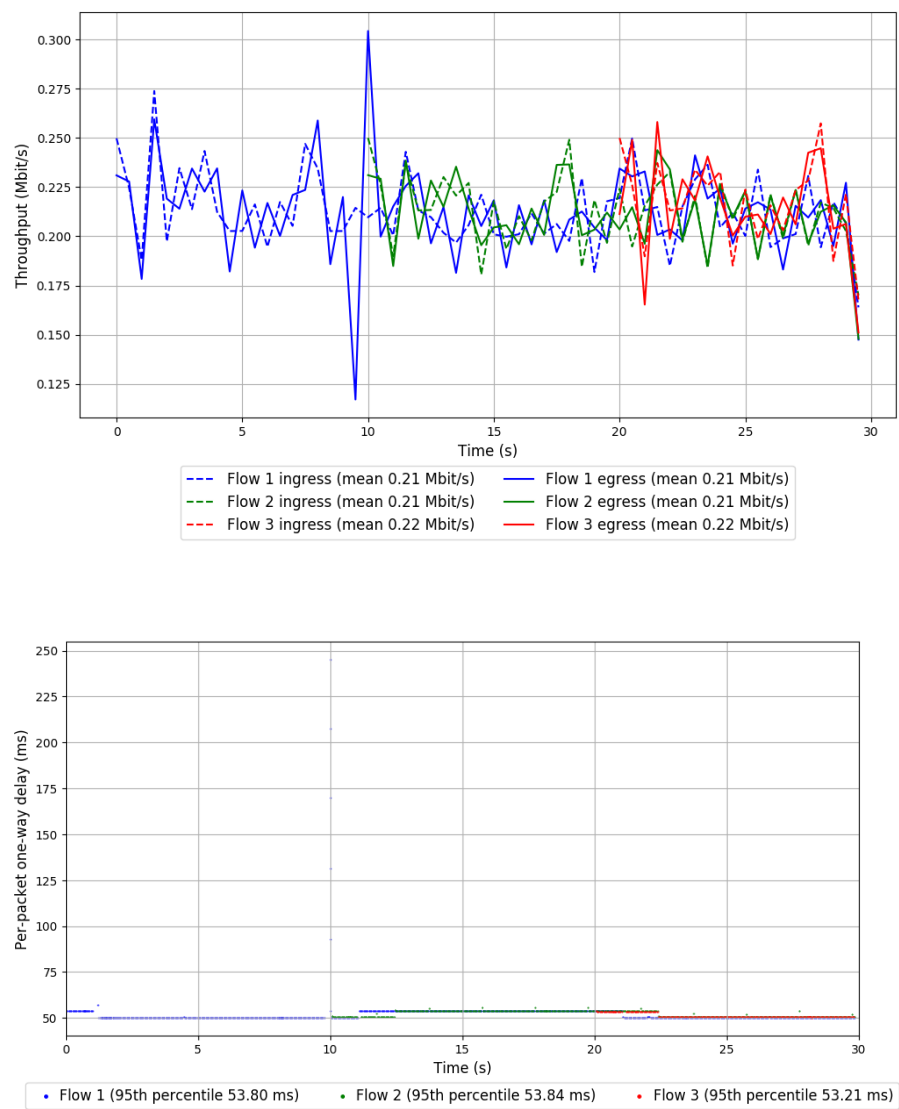
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.213 ms

Loss rate: 1.12%

Run 6: Report of SReAM — Data Link

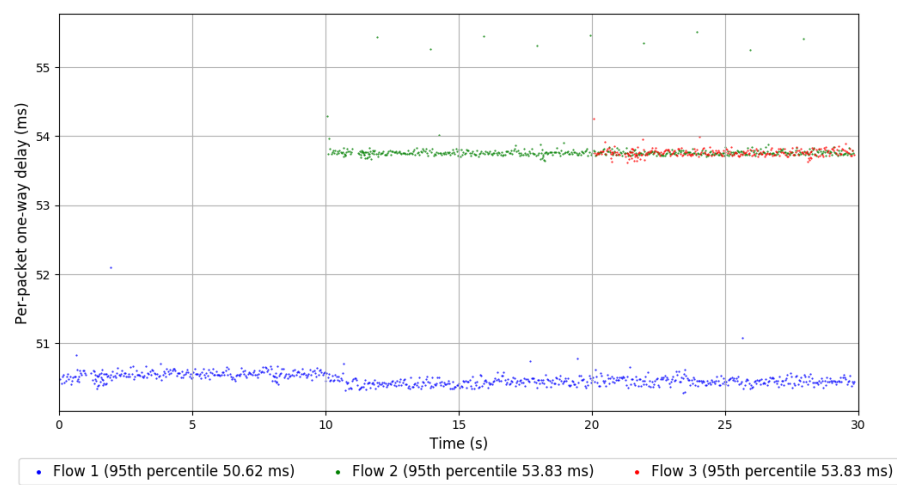
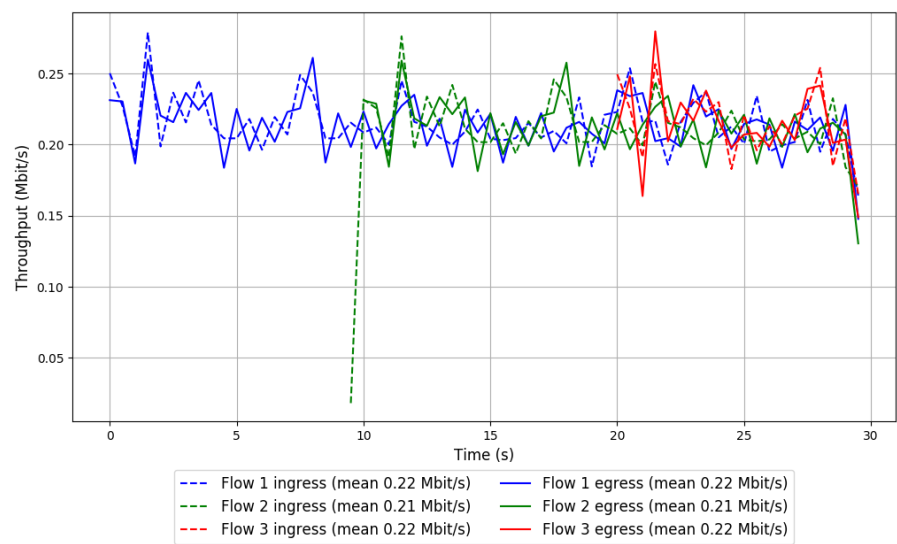


```
Run 7: Statistics of SReAM

Start at: 2018-01-09 21:27:29
End at: 2018-01-09 21:27:59

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.619 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.827 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 1.11%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 21:41:19

End at: 2018-01-09 21:41:49

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.695 ms

Loss rate: 0.43%

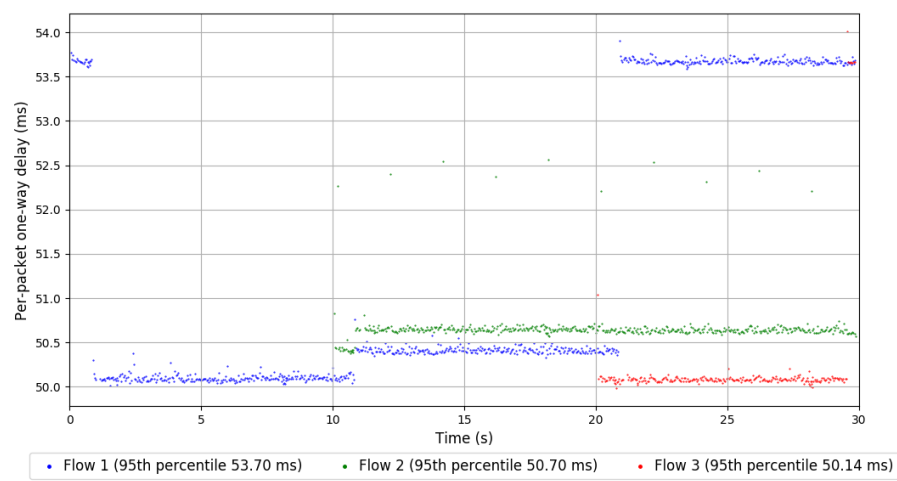
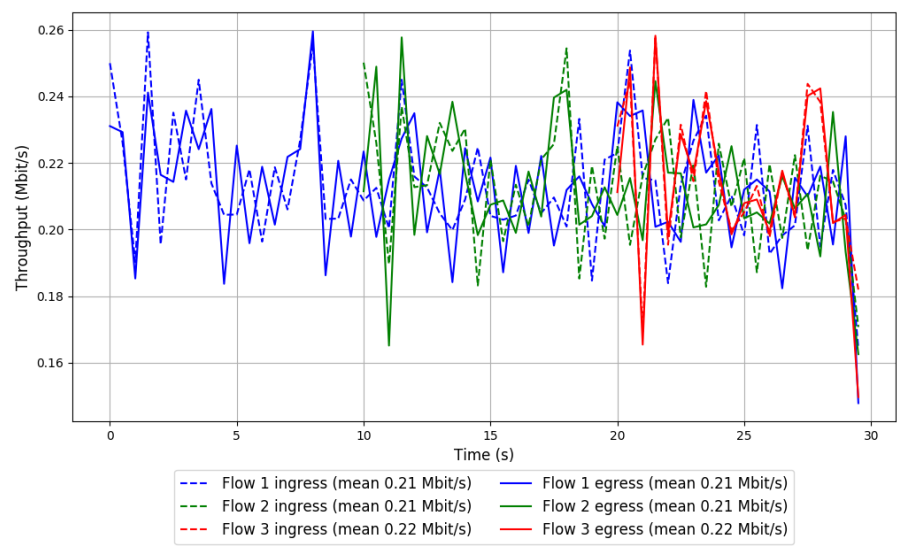
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.136 ms

Loss rate: 1.11%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-09 21:55:18

End at: 2018-01-09 21:55:48

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.734 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.734 ms

Loss rate: 0.64%

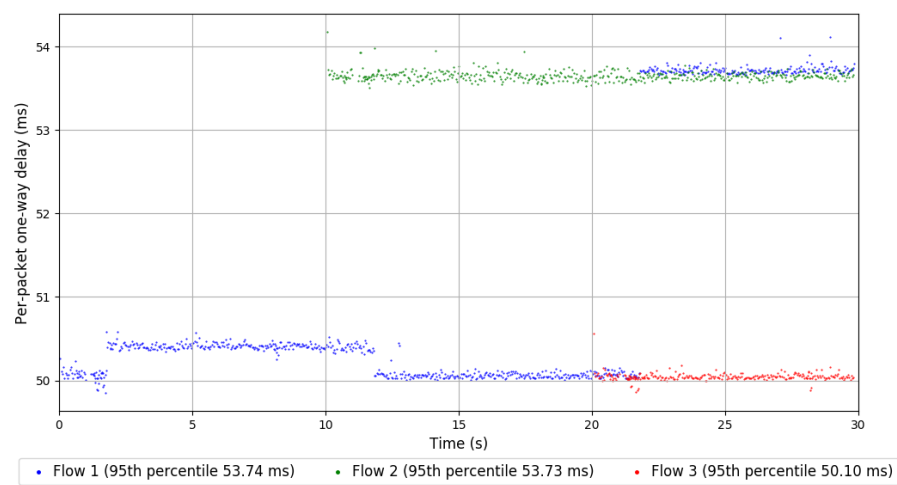
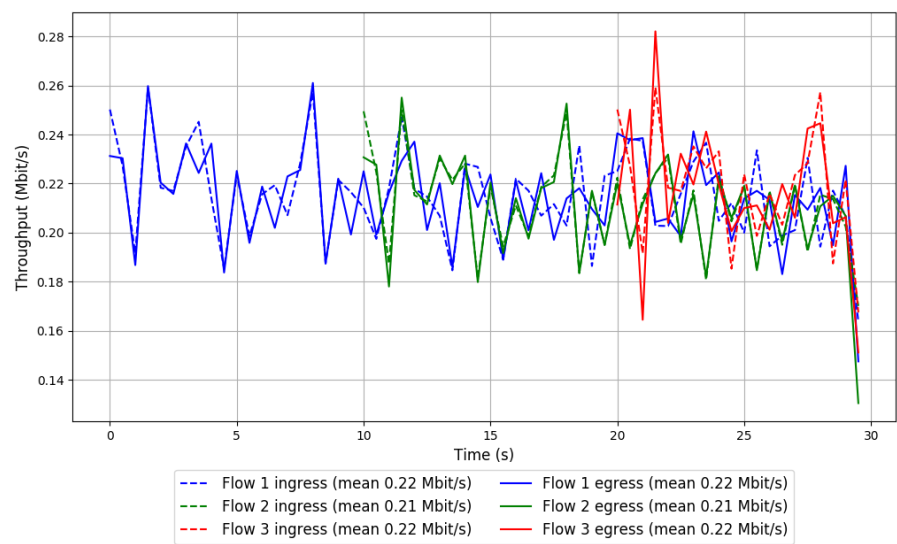
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.105 ms

Loss rate: 1.11%

Run 9: Report of SReAM — Data Link

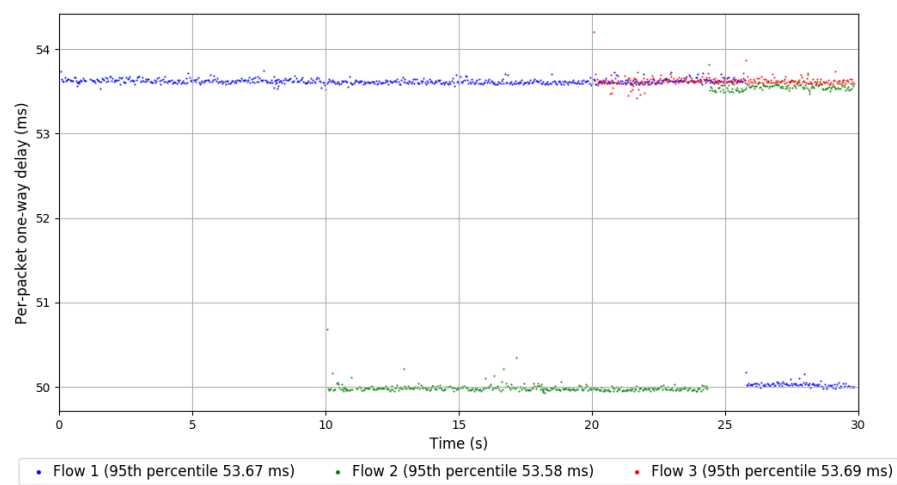
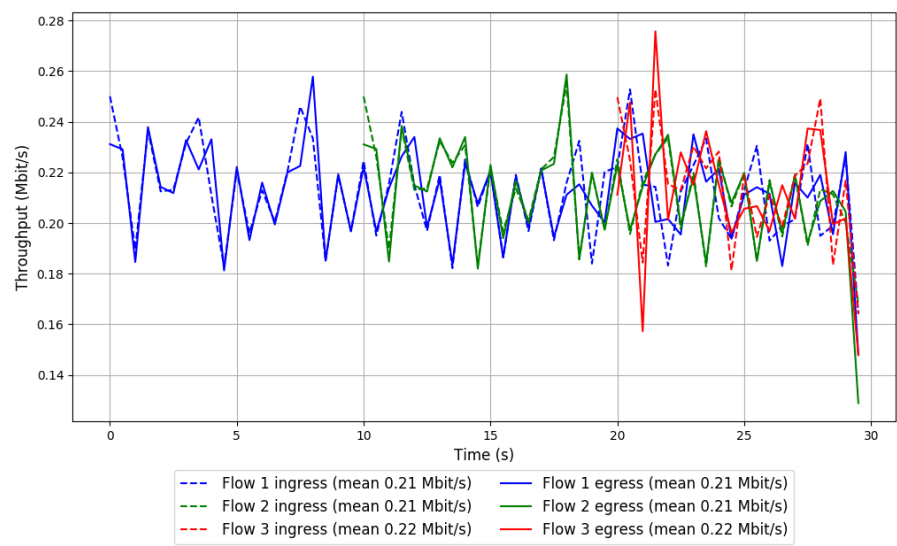


```
Run 10: Statistics of SReAM

Start at: 2018-01-09 22:08:54
End at: 2018-01-09 22:09:24

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.667 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.669 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.581 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 1.11%
```

Run 10: Report of SCRAM — Data Link

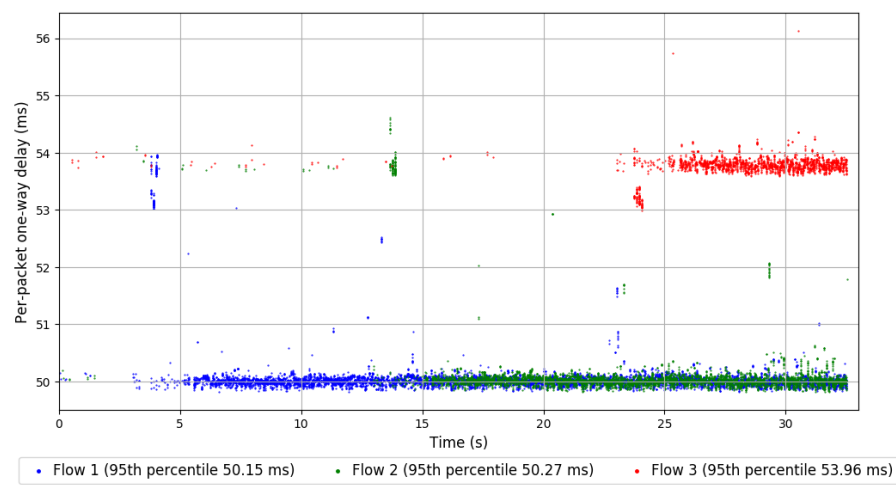
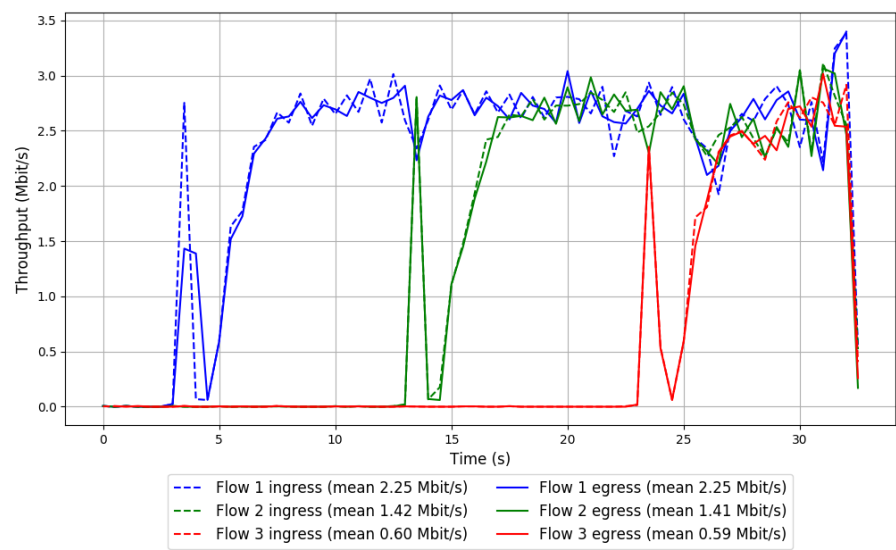


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 20:06:38
End at: 2018-01-09 20:07:08

# Below is generated by plot.py at 2018-01-10 01:19:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 53.825 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 50.147 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.265 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 53.962 ms
Loss rate: 1.96%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-09 20:20:14

End at: 2018-01-09 20:20:44

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 53.763 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 50.329 ms

Loss rate: 0.70%

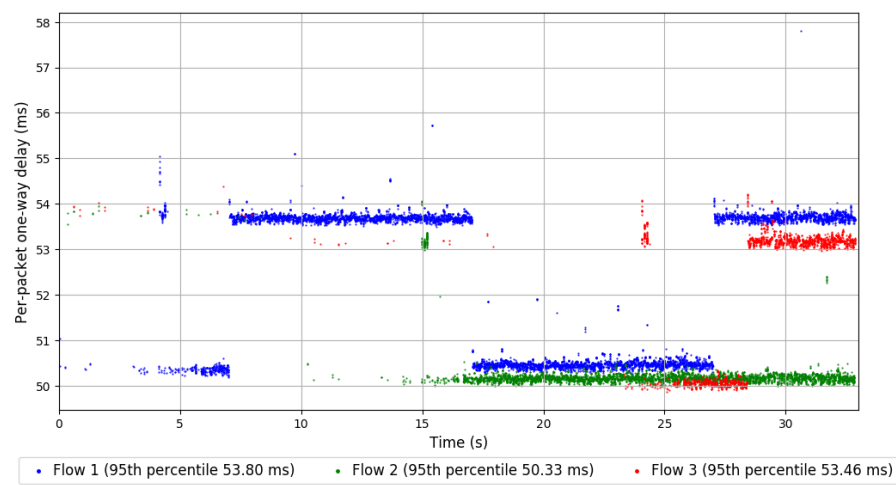
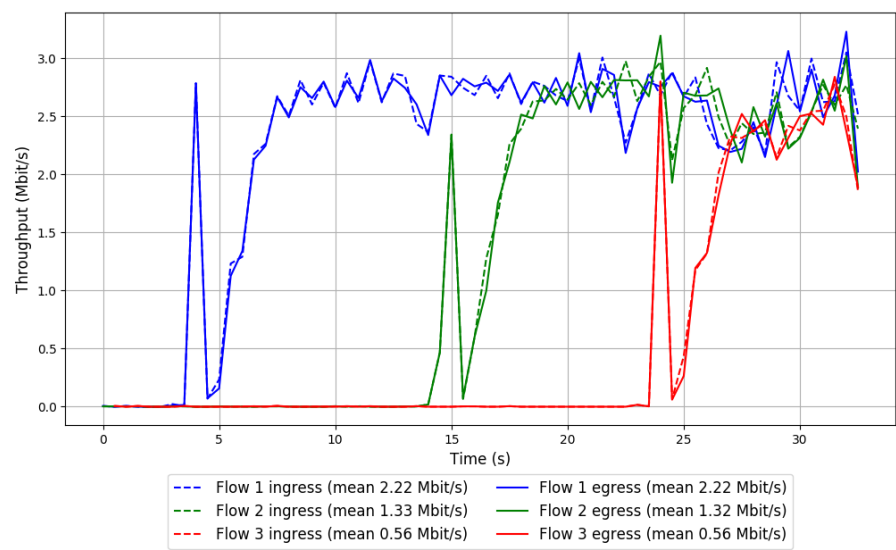
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 53.456 ms

Loss rate: 0.99%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 20:34:01

End at: 2018-01-09 20:34:31

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 53.340 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.320 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 53.432 ms

Loss rate: 0.52%

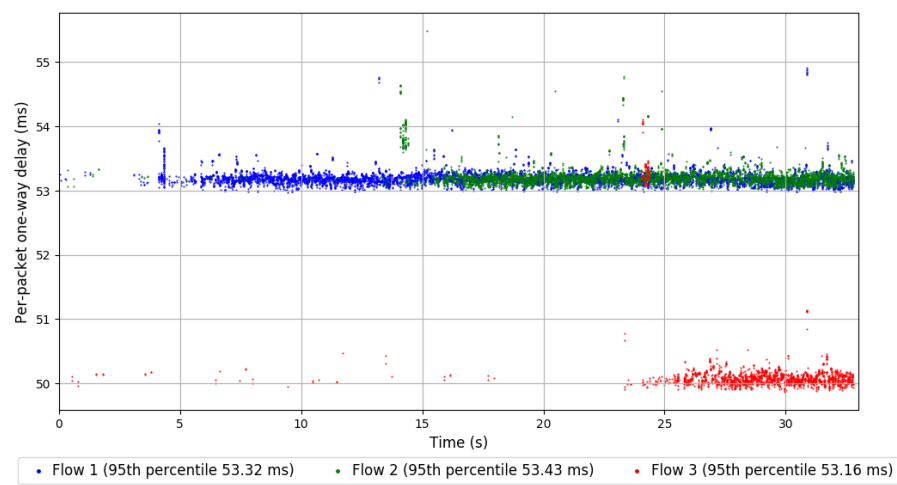
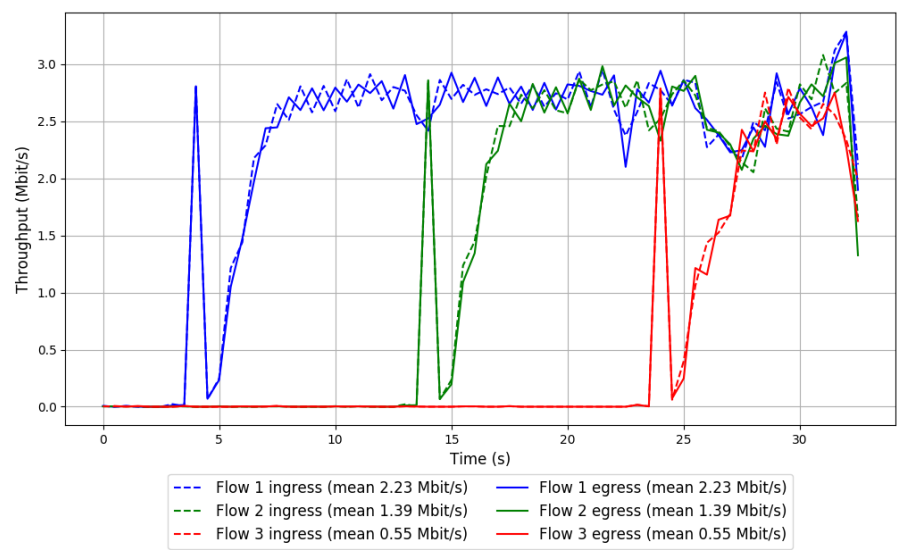
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.162 ms

Loss rate: 1.64%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 20:47:49

End at: 2018-01-09 20:48:19

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.47%

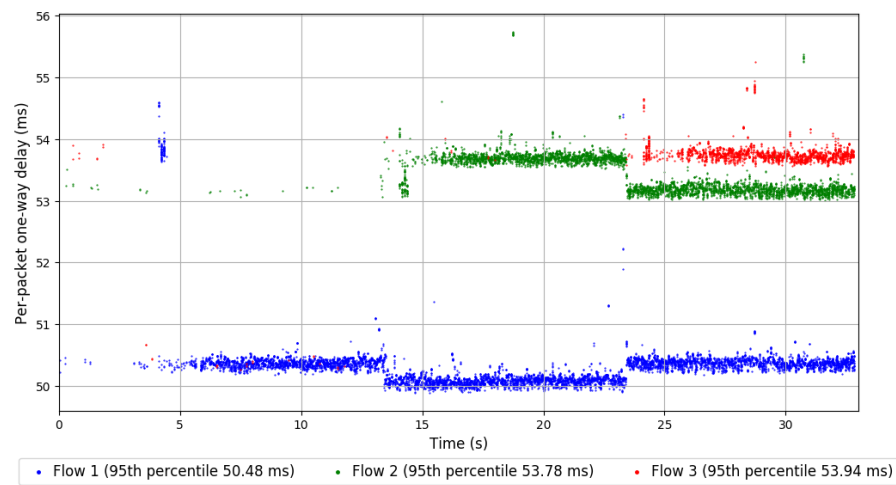
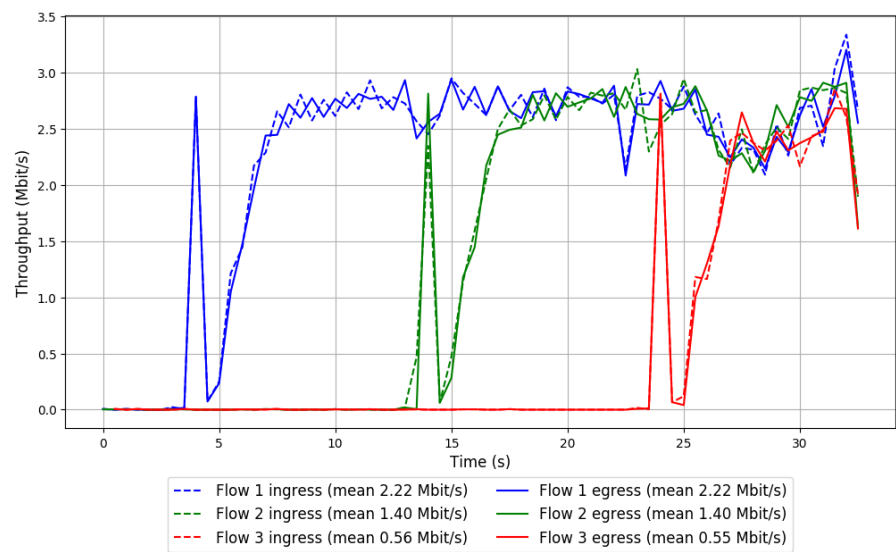
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.944 ms

Loss rate: 1.77%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 21:01:10

End at: 2018-01-09 21:01:40

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 53.258 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 53.717 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 0.59%

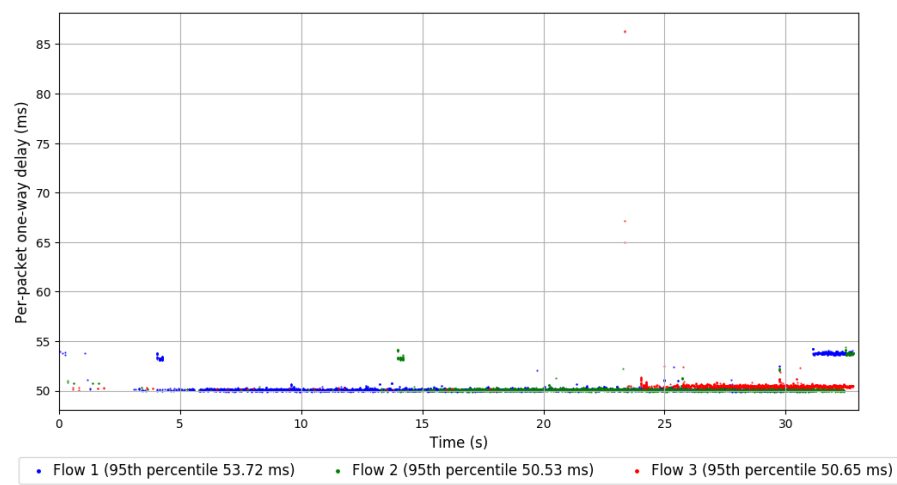
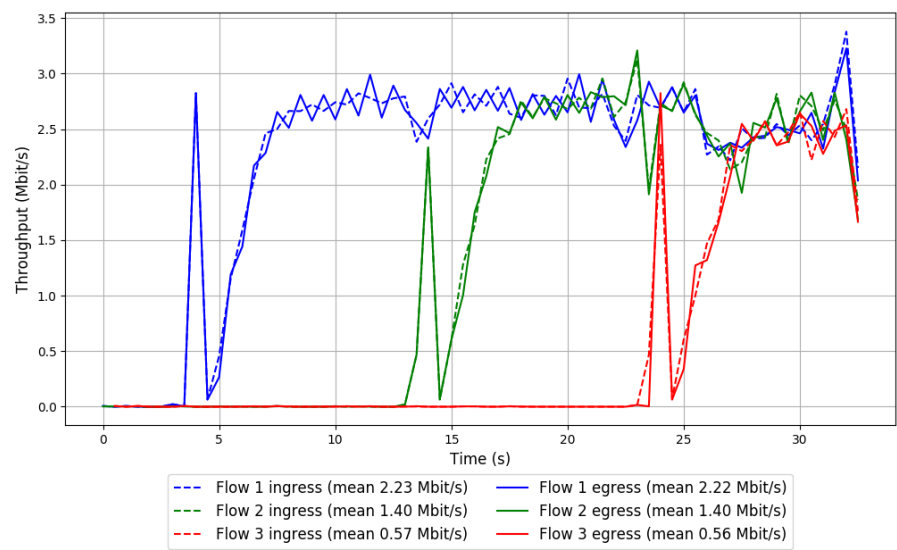
-- Flow 3:

Average throughput: 0.56 Mbit/s

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

Loss rate: 1.37%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 21:15:24

End at: 2018-01-09 21:15:54

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.925 ms

Loss rate: 0.47%

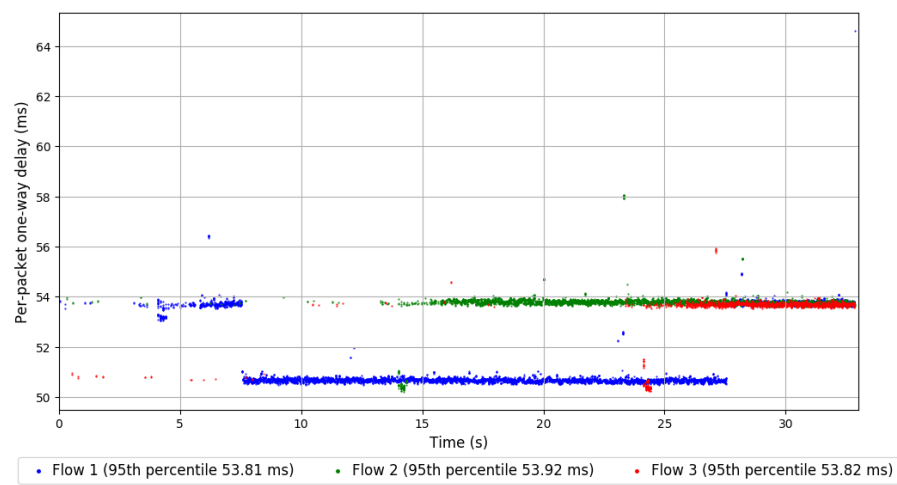
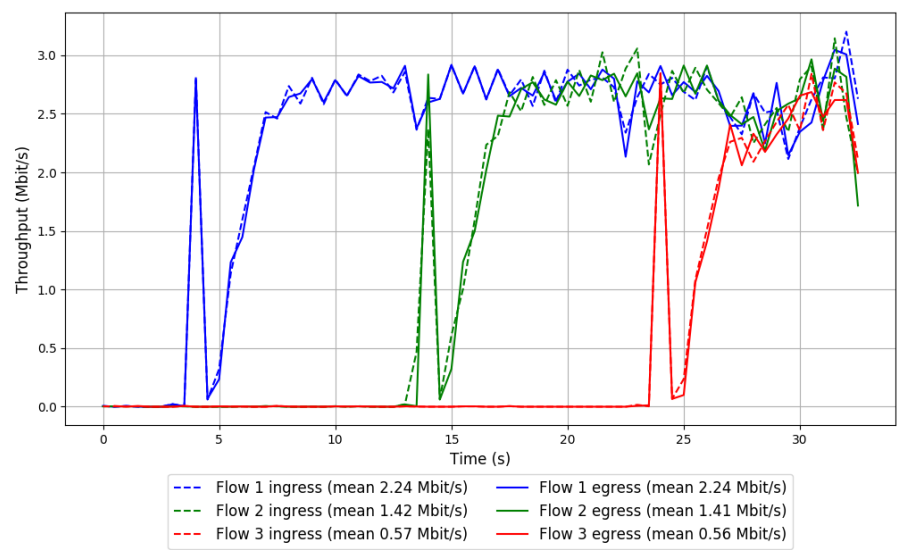
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 53.822 ms

Loss rate: 1.56%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-09 21:28:52

End at: 2018-01-09 21:29:22

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 0.54%

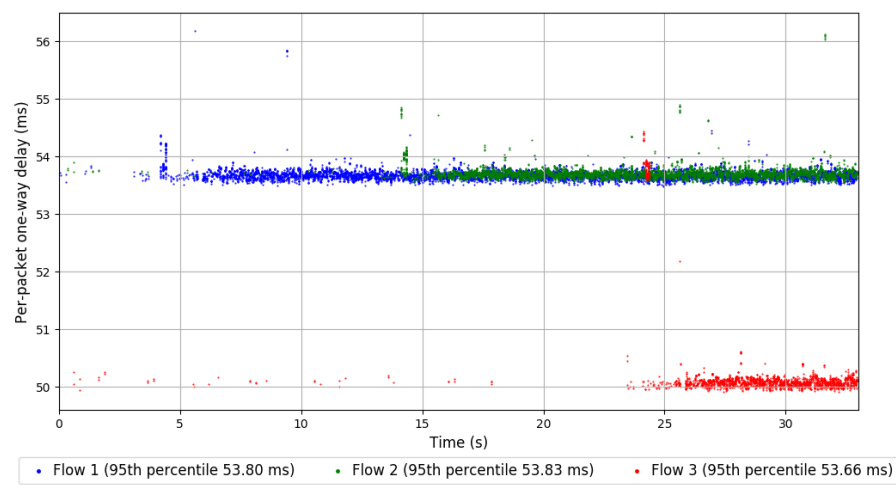
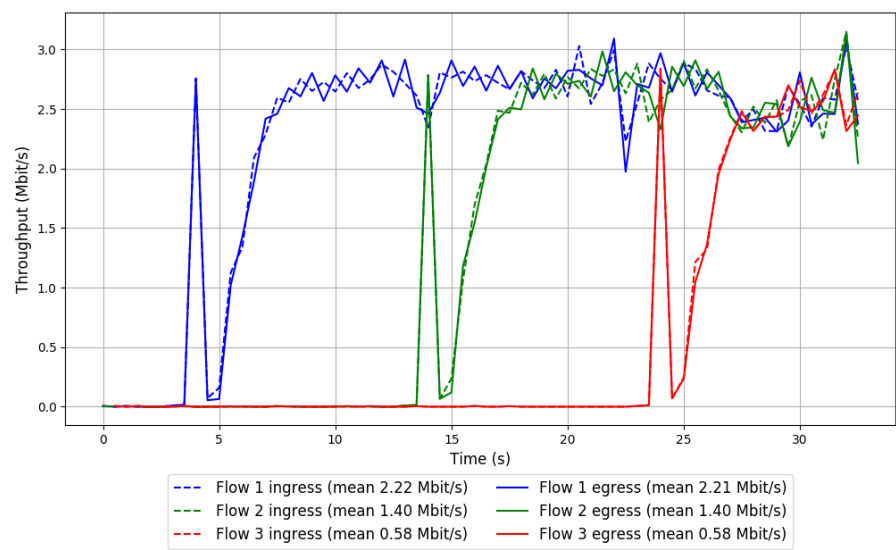
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.660 ms

Loss rate: 1.31%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-09 21:42:44

End at: 2018-01-09 21:43:14

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 53.822 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.68%

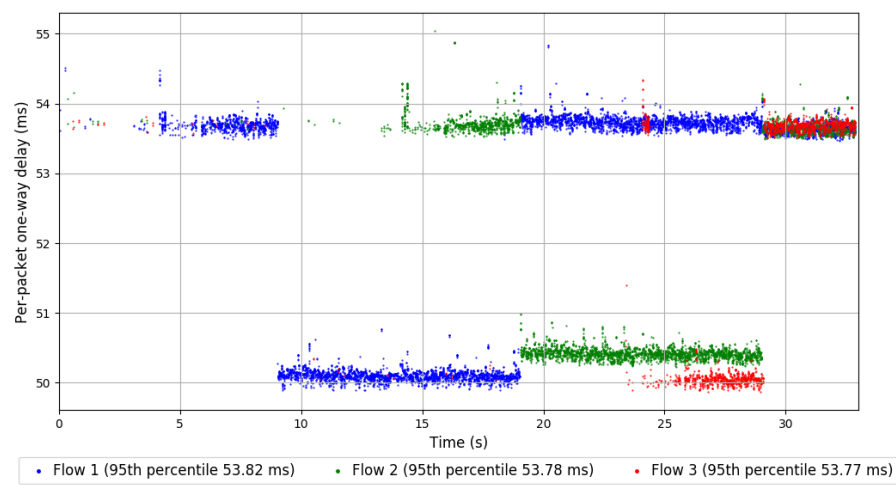
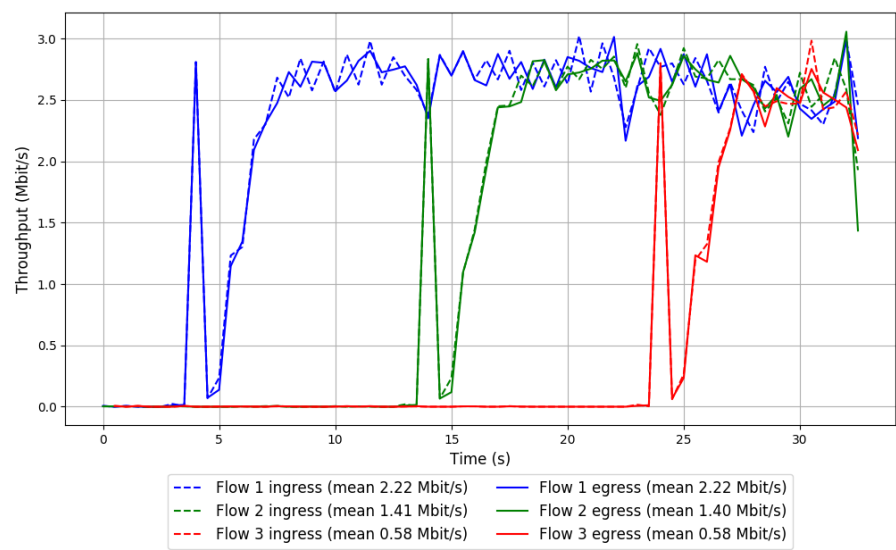
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 1.31%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 21:56:40

End at: 2018-01-09 21:57:10

Below is generated by plot.py at 2018-01-10 01:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 53.763 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.91%

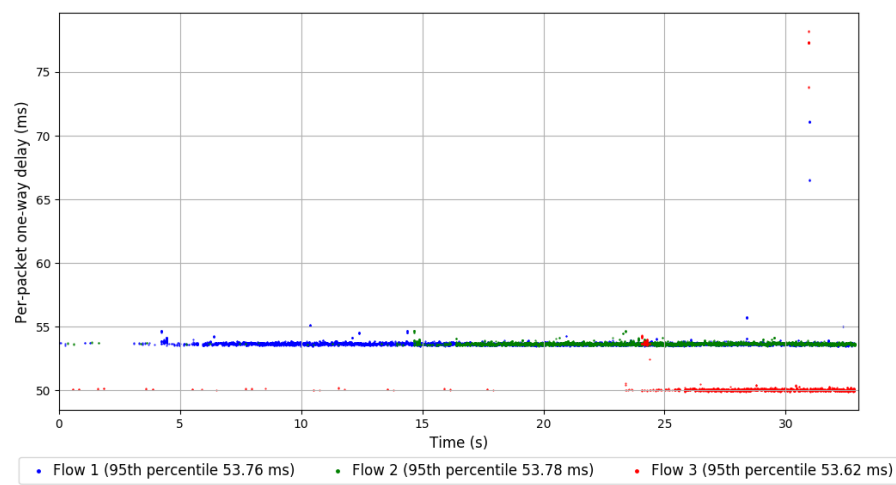
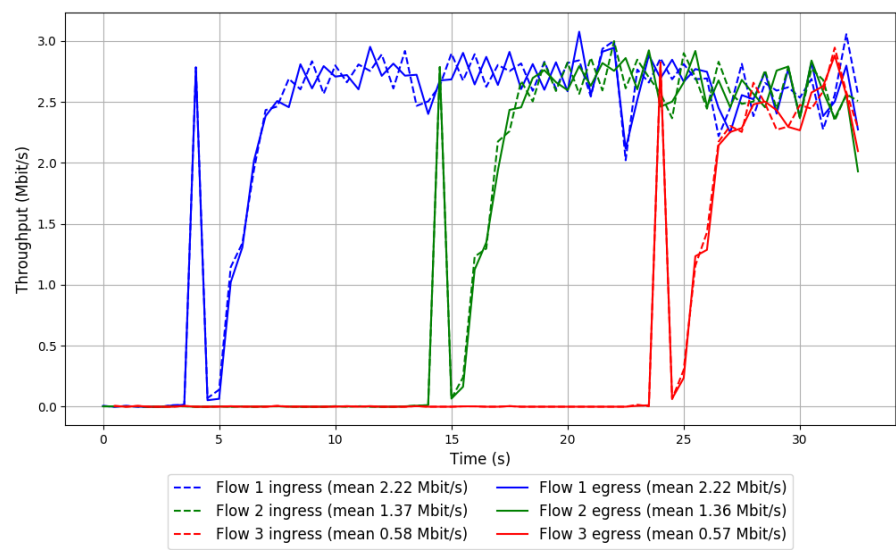
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 1.36%

Run 9: Report of WebRTC media — Data Link

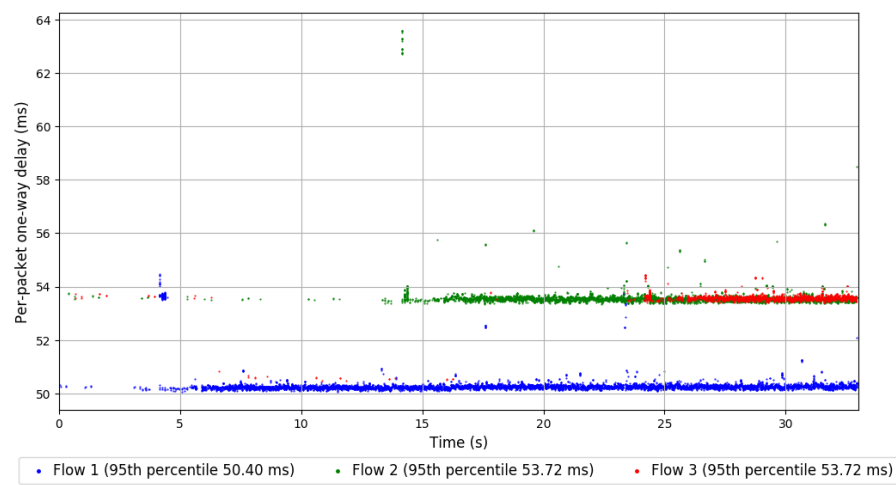
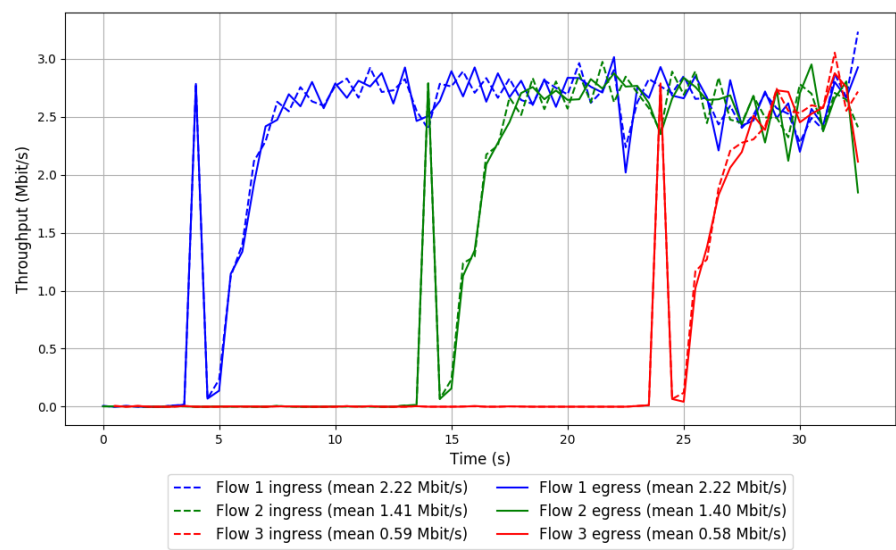


```
Run 10: Statistics of WebRTC media

Start at: 2018-01-09 22:10:16
End at: 2018-01-09 22:10:46

# Below is generated by plot.py at 2018-01-10 01:19:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 50.398 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 2.13%
```

Run 10: Report of WebRTC media — Data Link

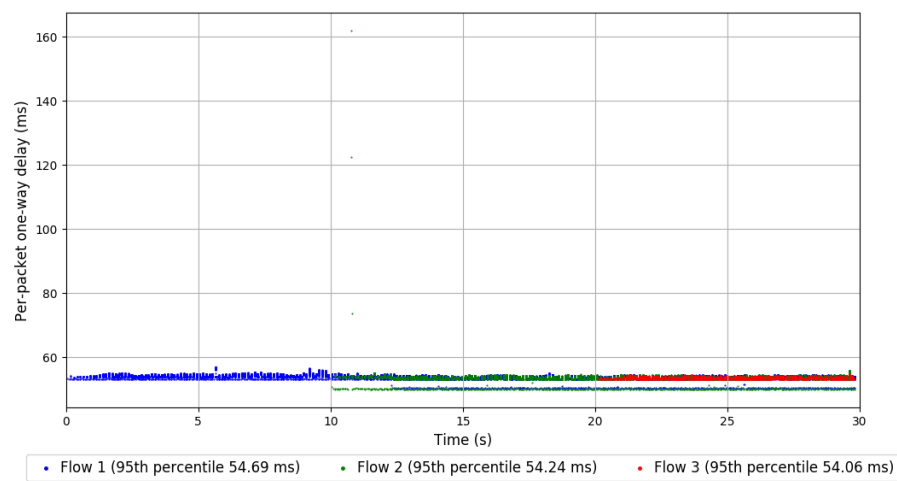
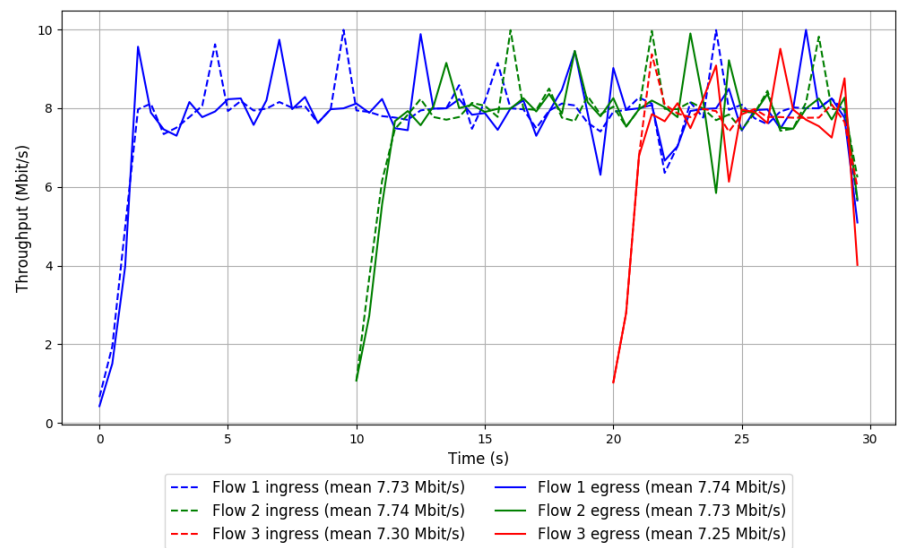


```
Run 1: Statistics of Sprout

Start at: 2018-01-09 20:13:57
End at: 2018-01-09 20:14:27

# Below is generated by plot.py at 2018-01-10 01:19:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 54.545 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 54.689 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 54.243 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 54.065 ms
Loss rate: 1.38%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 20:27:23

End at: 2018-01-09 20:27:53

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 54.831 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.838 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.799 ms

Loss rate: 1.18%

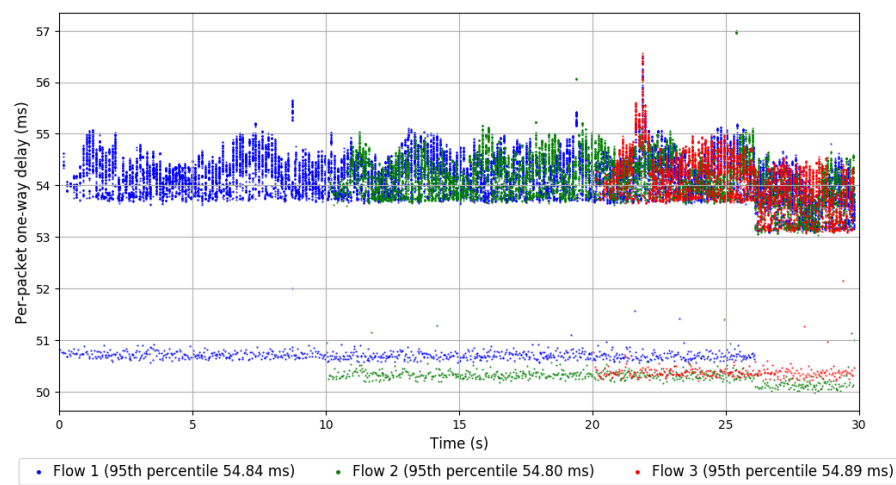
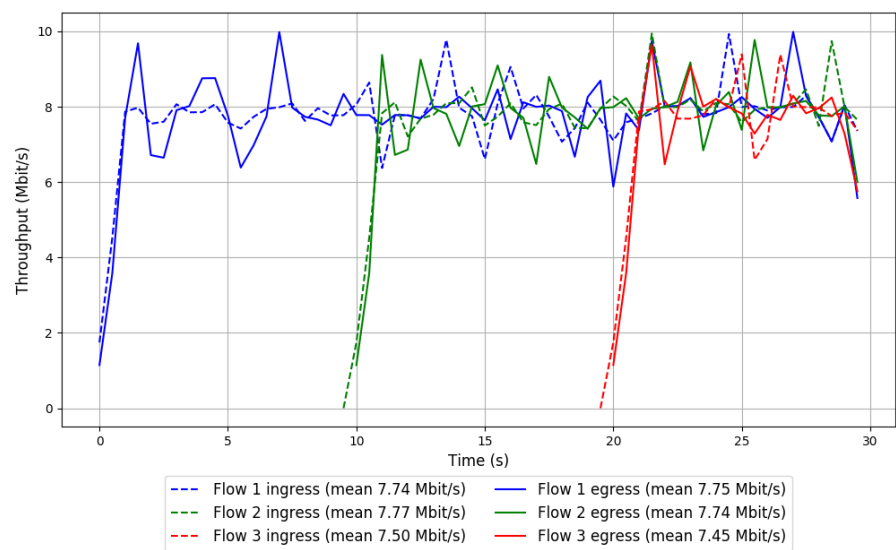
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.890 ms

Loss rate: 2.37%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 20:41:16

End at: 2018-01-09 20:41:46

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 54.847 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 54.864 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.843 ms

Loss rate: 0.72%

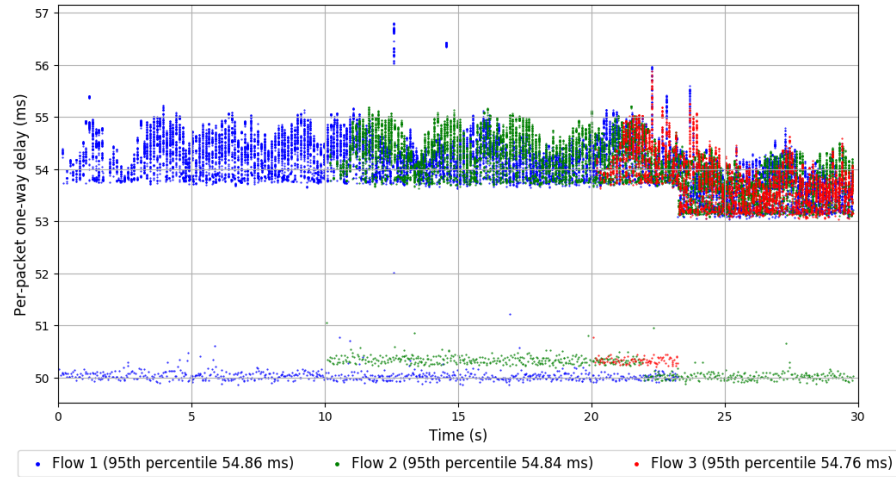
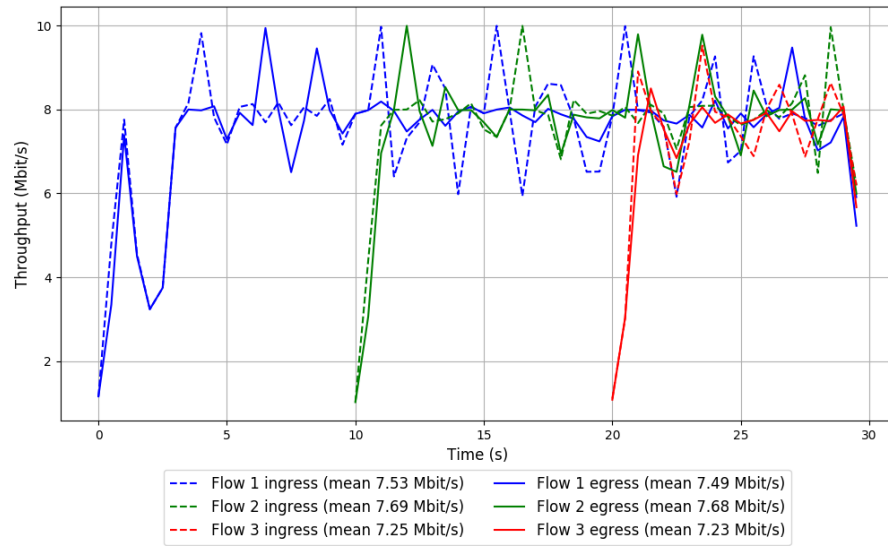
-- Flow 3:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 54.756 ms

Loss rate: 1.59%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 20:55:03

End at: 2018-01-09 20:55:33

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.22 Mbit/s

95th percentile per-packet one-way delay: 54.536 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.599 ms

Loss rate: 0.67%

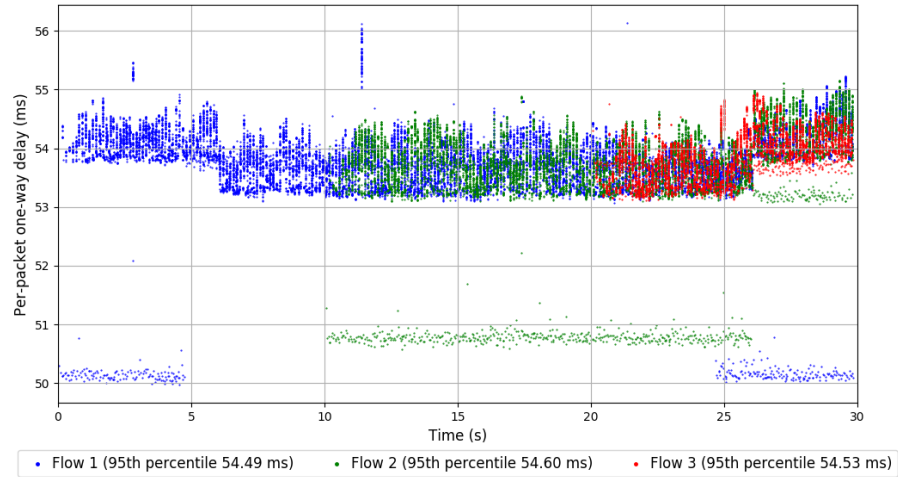
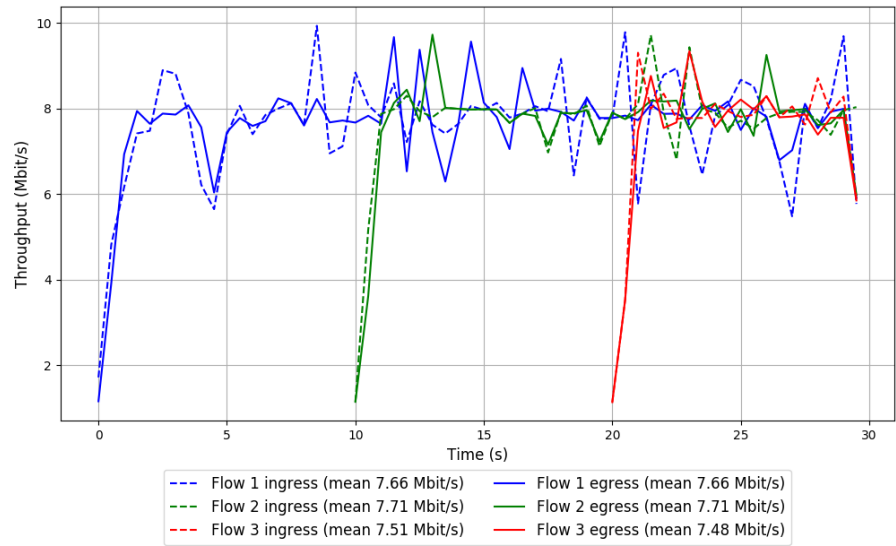
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 54.535 ms

Loss rate: 1.33%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 21:08:34

End at: 2018-01-09 21:09:04

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 54.315 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 54.314 ms

Loss rate: 0.39%

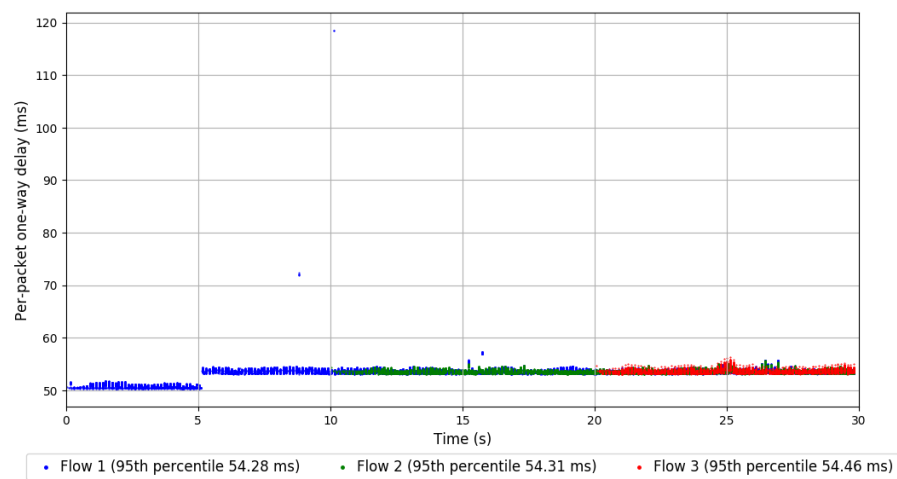
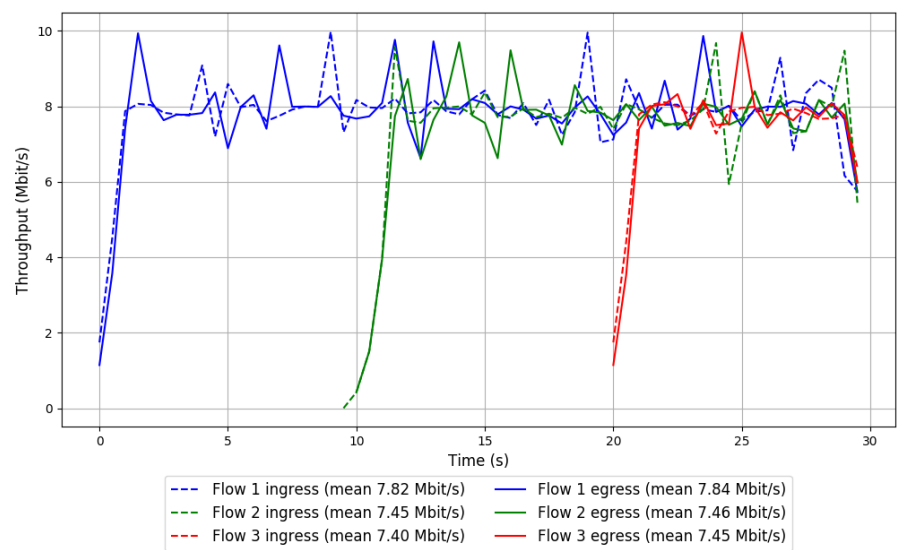
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.456 ms

Loss rate: 0.28%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 21:22:37

End at: 2018-01-09 21:23:07

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 54.741 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.697 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.728 ms

Loss rate: 0.07%

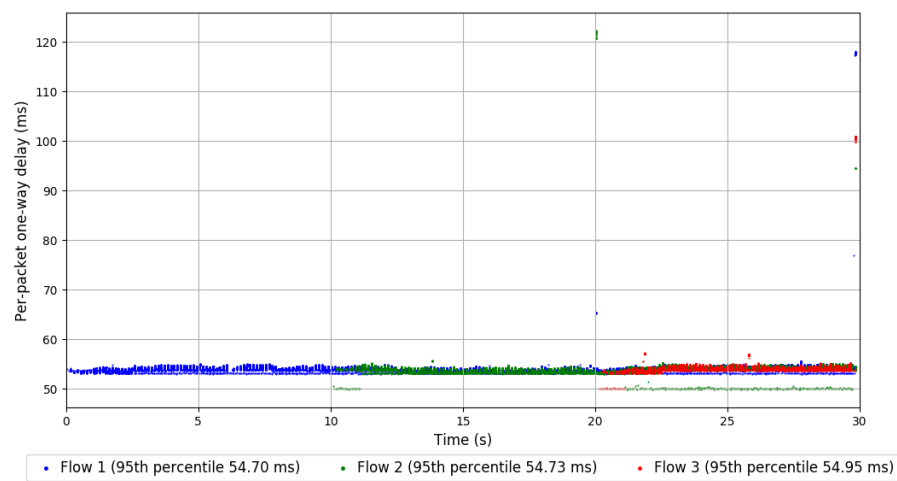
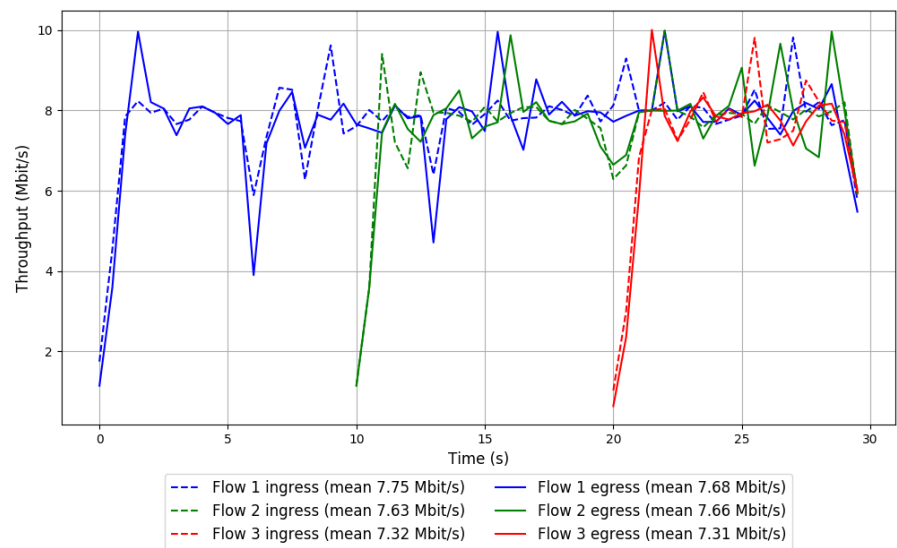
-- Flow 3:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 54.947 ms

Loss rate: 1.40%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 21:36:12

End at: 2018-01-09 21:36:42

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 54.839 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.728 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.939 ms

Loss rate: 0.54%

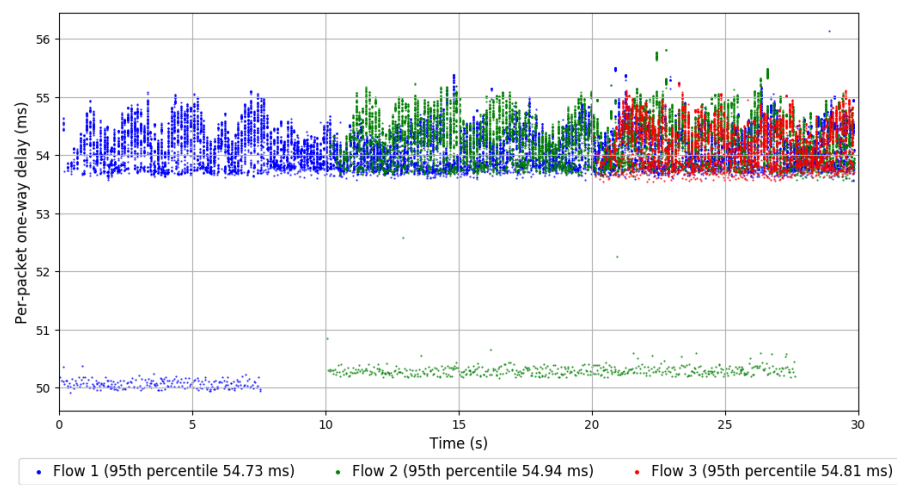
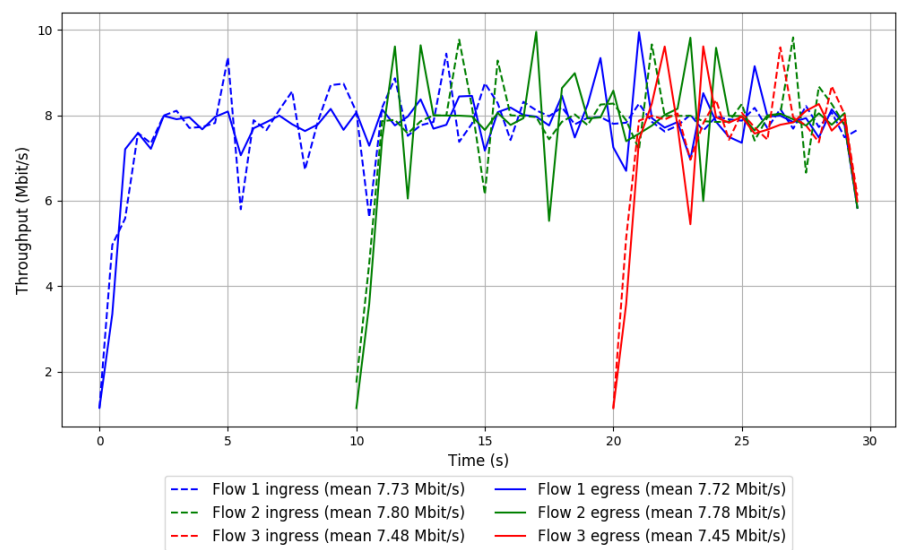
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.814 ms

Loss rate: 1.33%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-09 21:50:00

End at: 2018-01-09 21:50:30

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 54.825 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 54.840 ms

Loss rate: 1.32%

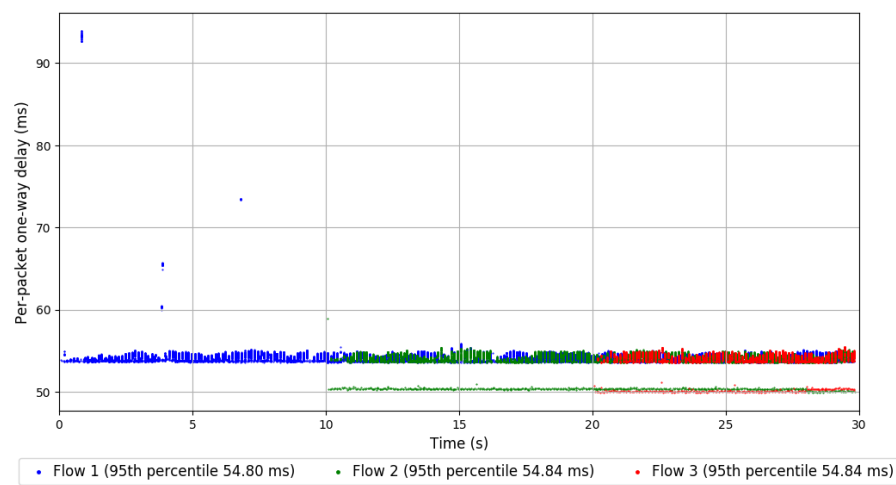
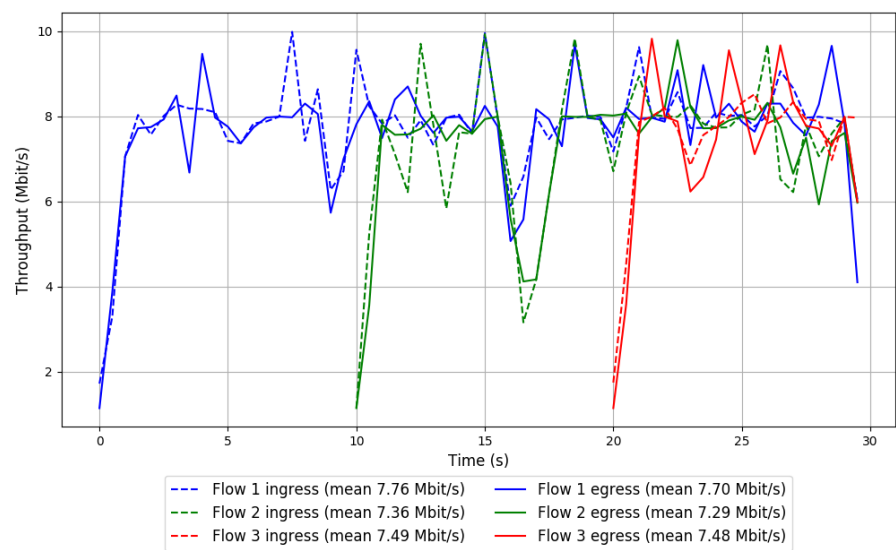
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 54.845 ms

Loss rate: 1.34%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-09 22:03:55

End at: 2018-01-09 22:04:25

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 54.755 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.667 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.837 ms

Loss rate: 0.68%

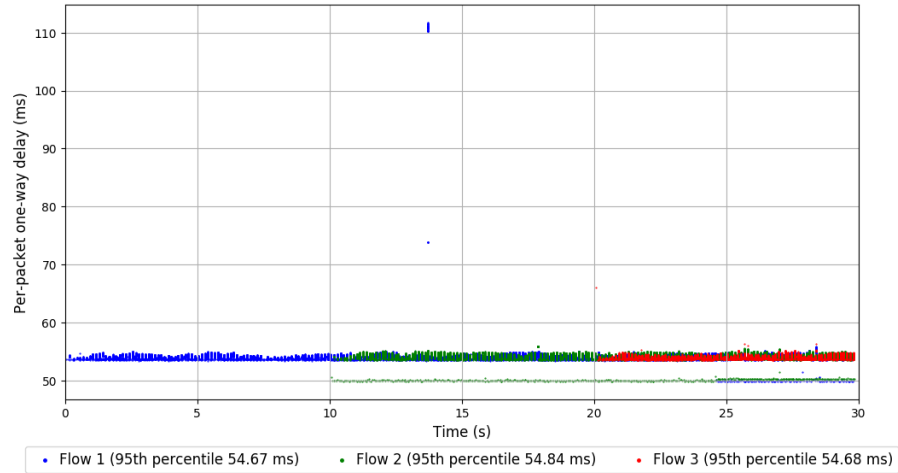
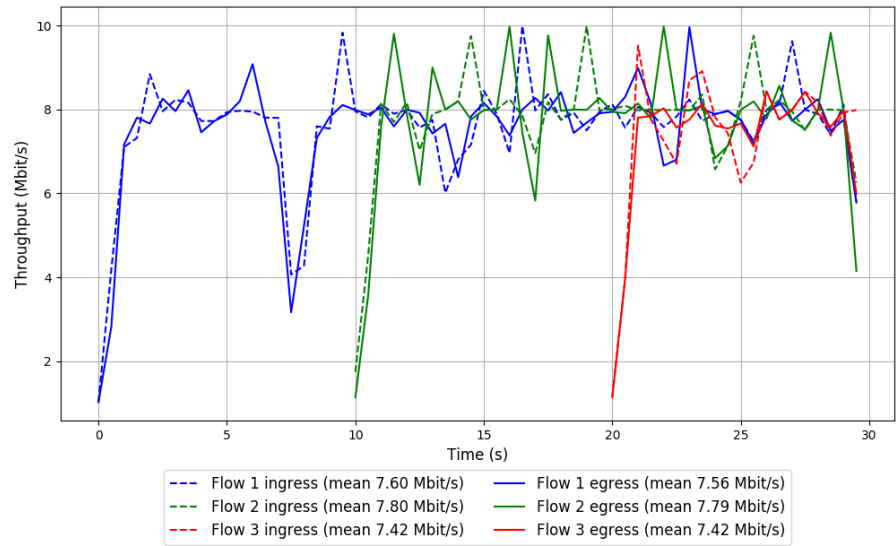
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.676 ms

Loss rate: 1.36%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-09 22:17:44

End at: 2018-01-09 22:18:14

Below is generated by plot.py at 2018-01-10 01:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.03 Mbit/s

95th percentile per-packet one-way delay: 54.891 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.857 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 54.969 ms

Loss rate: 0.75%

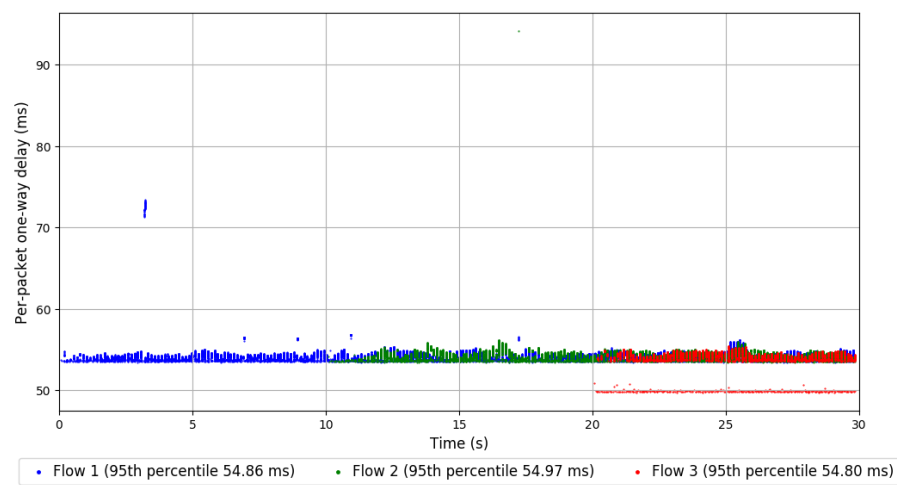
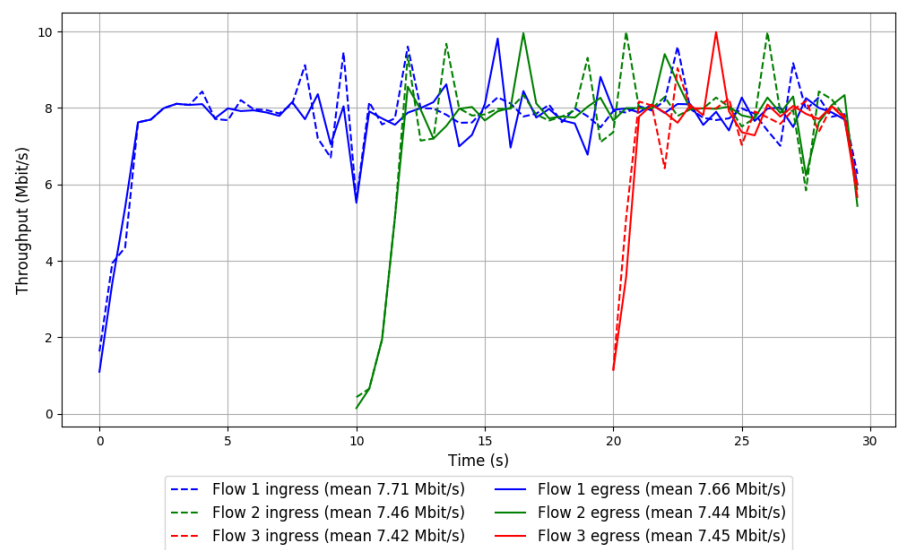
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 0.27%

Run 10: Report of Sprout — Data Link

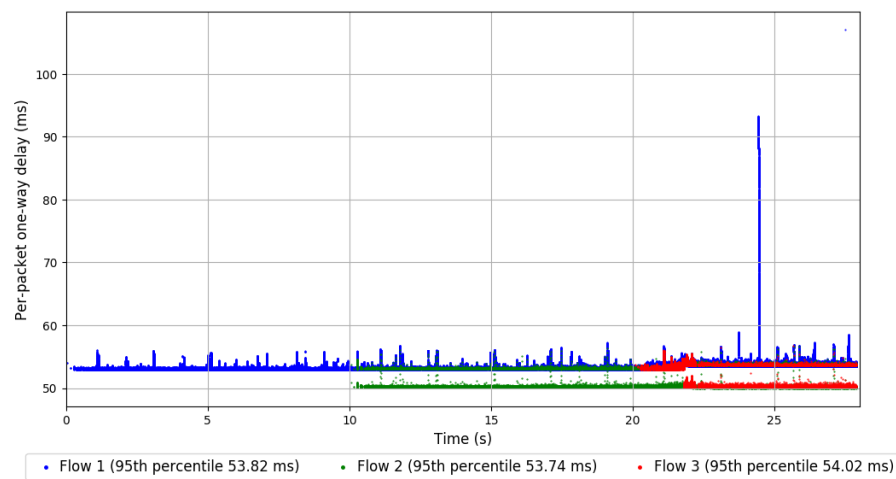
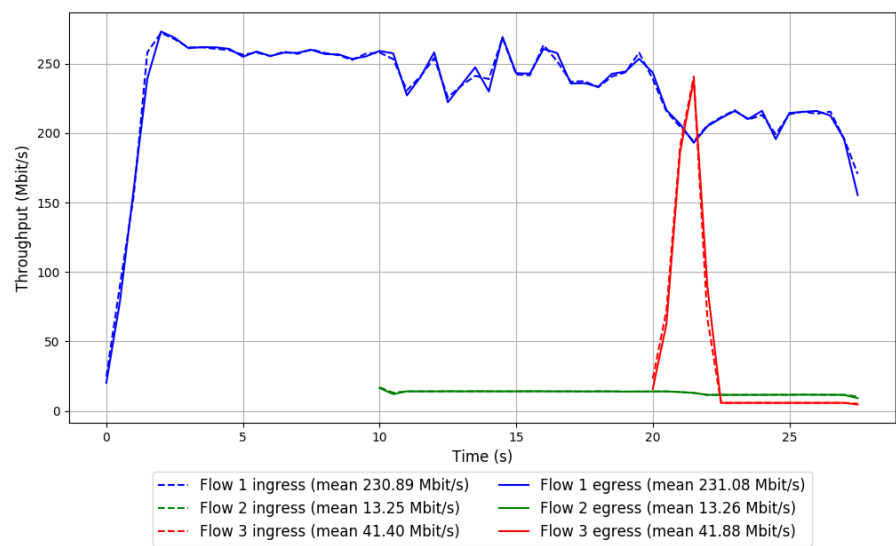


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 20:16:06
End at: 2018-01-09 20:16:36

# Below is generated by plot.py at 2018-01-10 01:23:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 251.34 Mbit/s
95th percentile per-packet one-way delay: 53.830 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 231.08 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 41.88 Mbit/s
95th percentile per-packet one-way delay: 54.022 ms
Loss rate: 0.19%
```


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

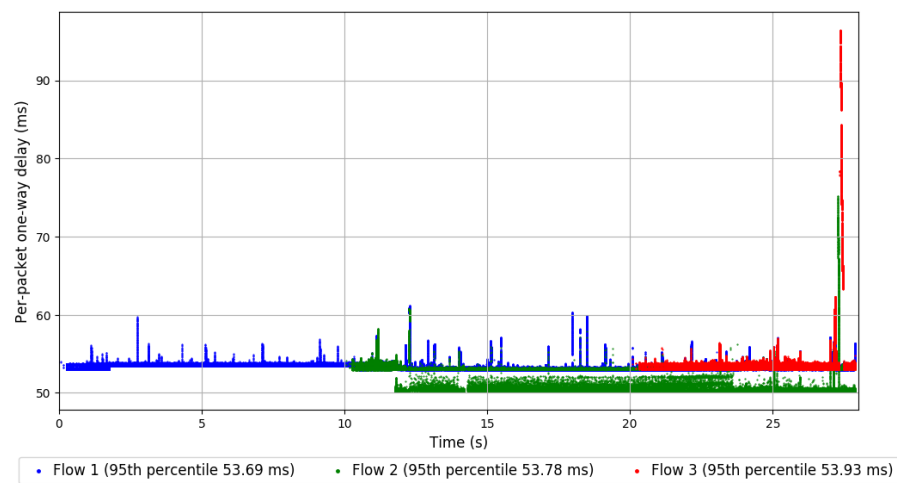
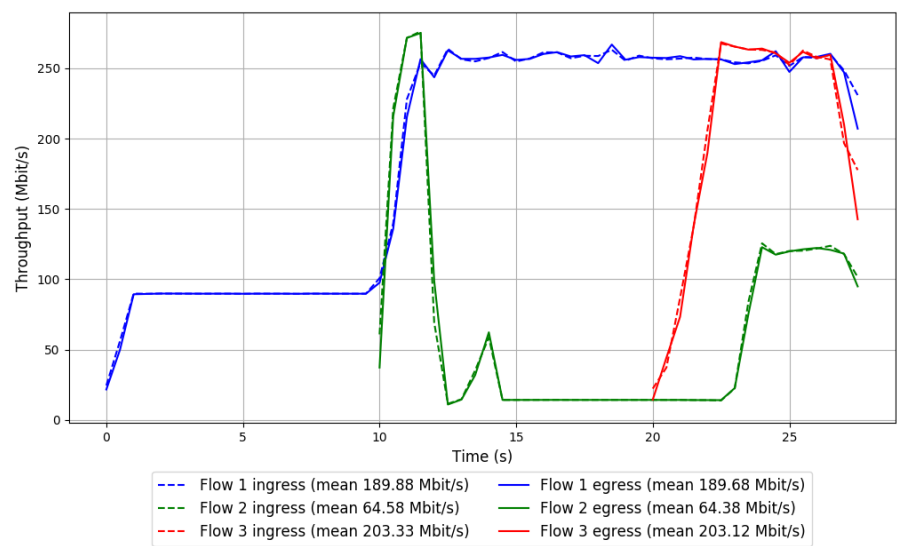


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 20:29:46
End at: 2018-01-09 20:30:16

# Below is generated by plot.py at 2018-01-10 01:24:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.76 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 189.68 Mbit/s
95th percentile per-packet one-way delay: 53.686 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 53.778 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 203.12 Mbit/s
95th percentile per-packet one-way delay: 53.927 ms
Loss rate: 1.47%
```

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

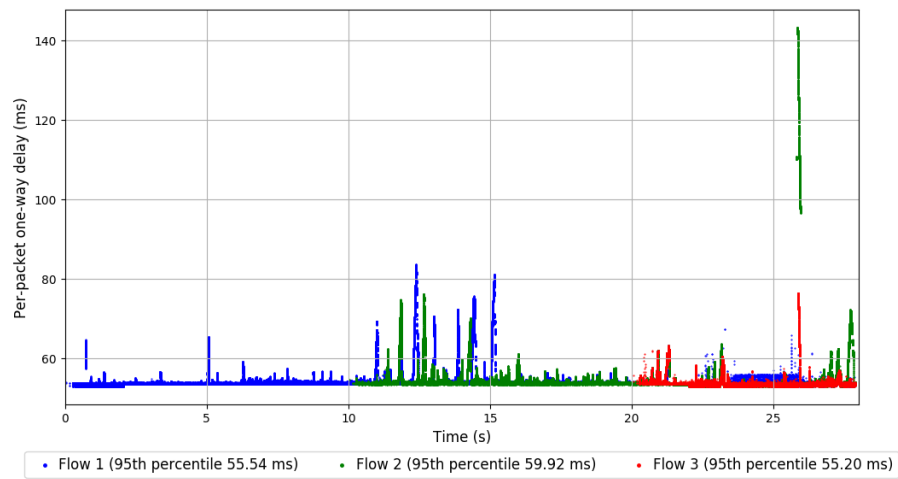
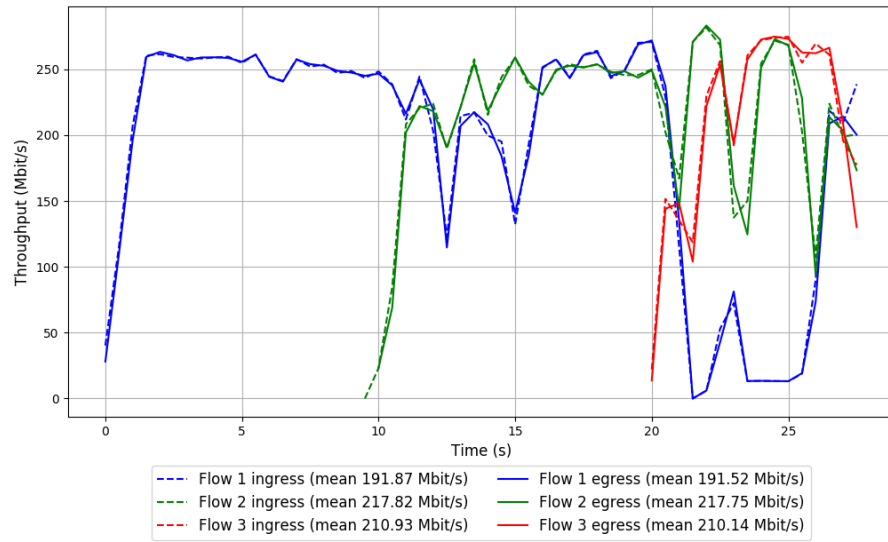


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 20:43:26
End at: 2018-01-09 20:43:56

# Below is generated by plot.py at 2018-01-10 01:27:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.14 Mbit/s
95th percentile per-packet one-way delay: 56.876 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 191.52 Mbit/s
95th percentile per-packet one-way delay: 55.538 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 217.75 Mbit/s
95th percentile per-packet one-way delay: 59.925 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 210.14 Mbit/s
95th percentile per-packet one-way delay: 55.200 ms
Loss rate: 1.75%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 20:57:11

End at: 2018-01-09 20:57:41

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.36 Mbit/s

95th percentile per-packet one-way delay: 53.817 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.62%

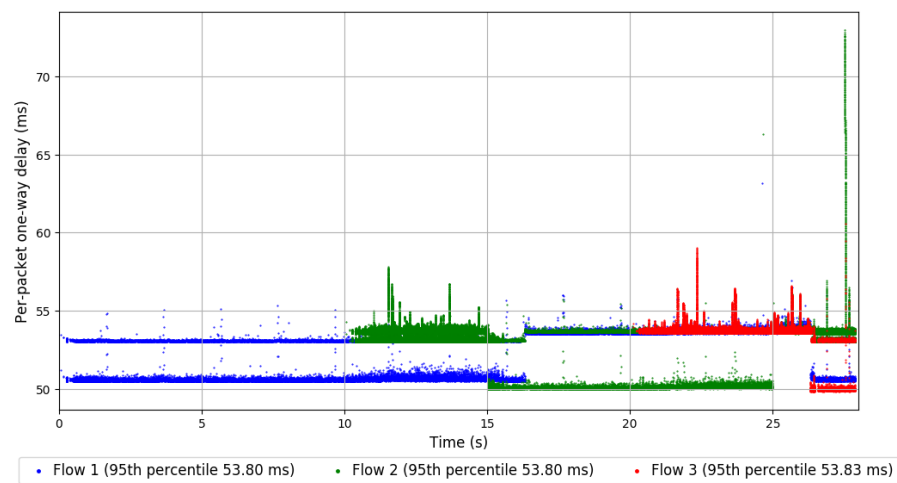
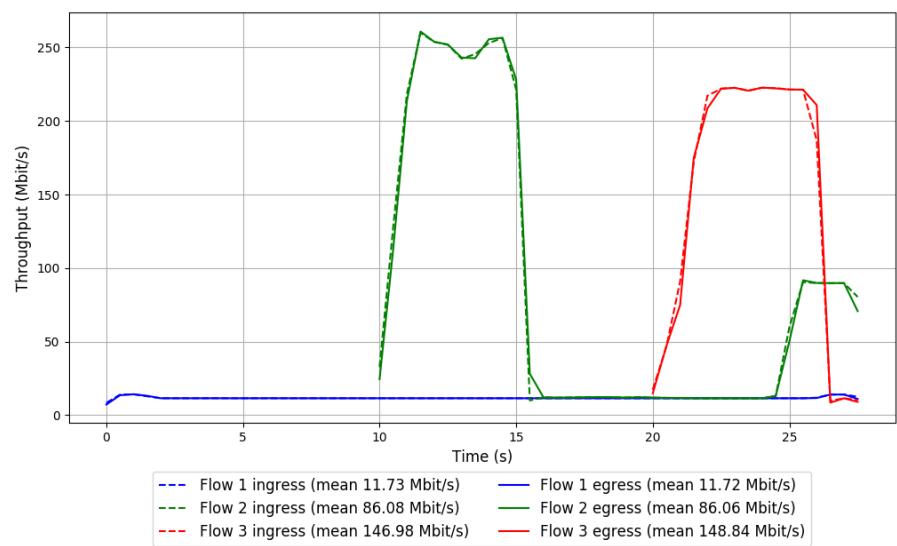
-- Flow 3:

Average throughput: 148.84 Mbit/s

95th percentile per-packet one-way delay: 53.834 ms

Loss rate: 0.11%

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

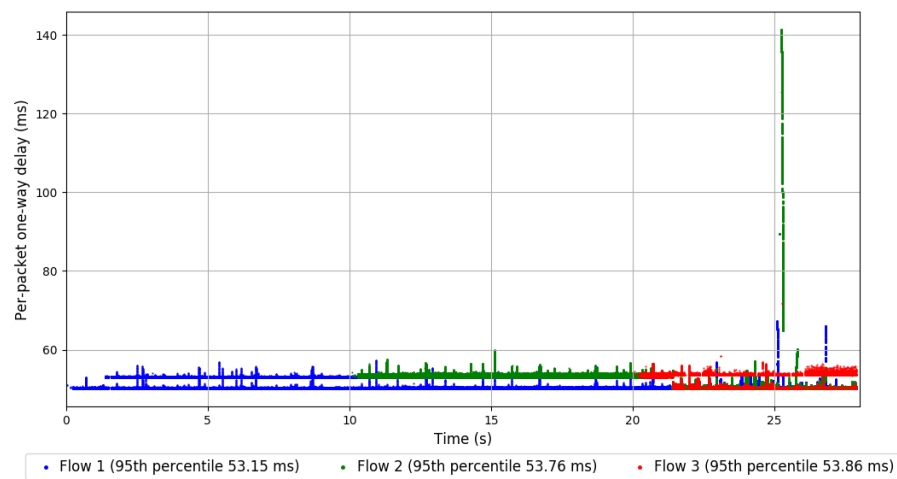
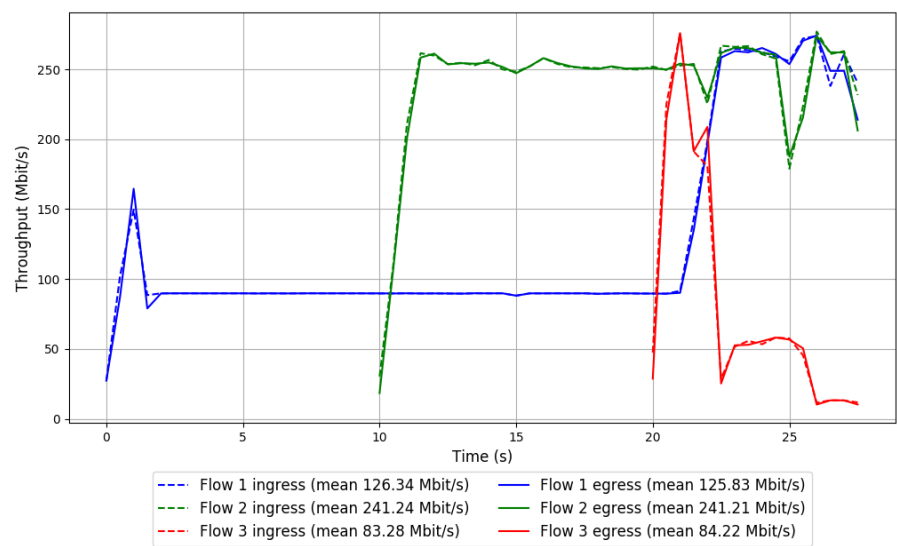


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 21:11:06
End at: 2018-01-09 21:11:36

# Below is generated by plot.py at 2018-01-10 01:27:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.74 Mbit/s
95th percentile per-packet one-way delay: 53.726 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 125.83 Mbit/s
95th percentile per-packet one-way delay: 53.149 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 241.21 Mbit/s
95th percentile per-packet one-way delay: 53.764 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 84.22 Mbit/s
95th percentile per-packet one-way delay: 53.864 ms
Loss rate: 0.21%
```


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

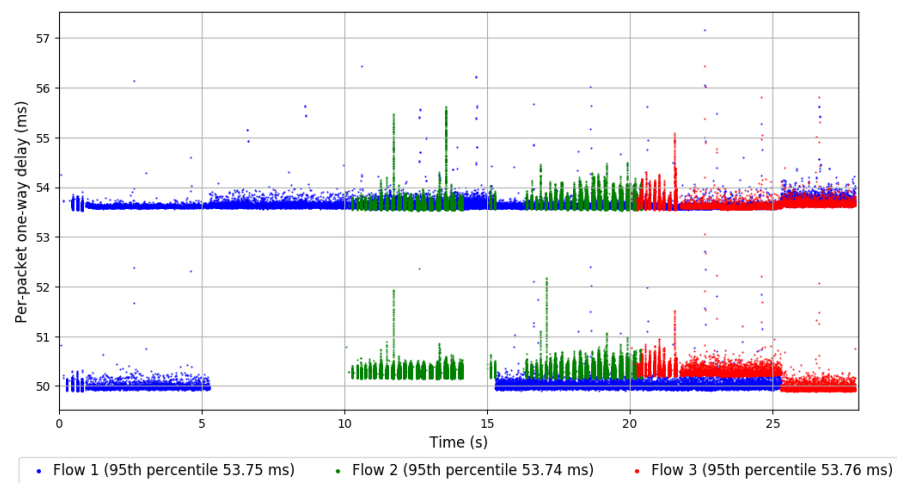
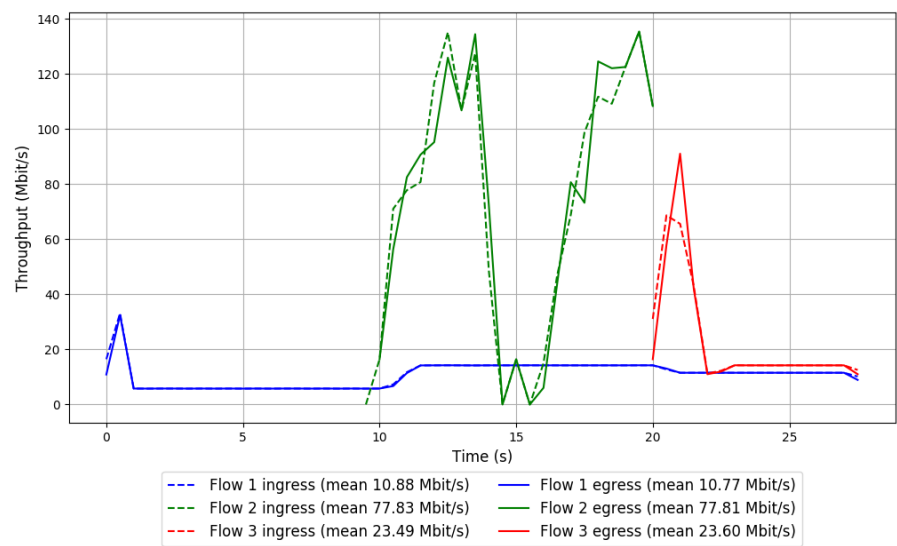


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 21:25:02
End at: 2018-01-09 21:25:32

# Below is generated by plot.py at 2018-01-10 01:27:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 10.77 Mbit/s
95th percentile per-packet one-way delay: 53.749 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 77.81 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 53.757 ms
Loss rate: 0.82%
```

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 21:38:41

End at: 2018-01-09 21:39:11

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.26 Mbit/s

95th percentile per-packet one-way delay: 53.856 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 149.10 Mbit/s

95th percentile per-packet one-way delay: 53.884 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 13.75 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.61%

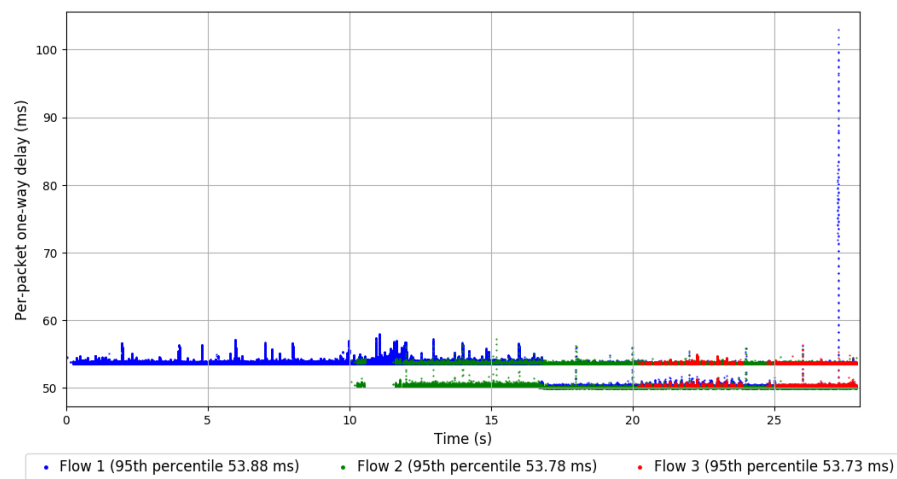
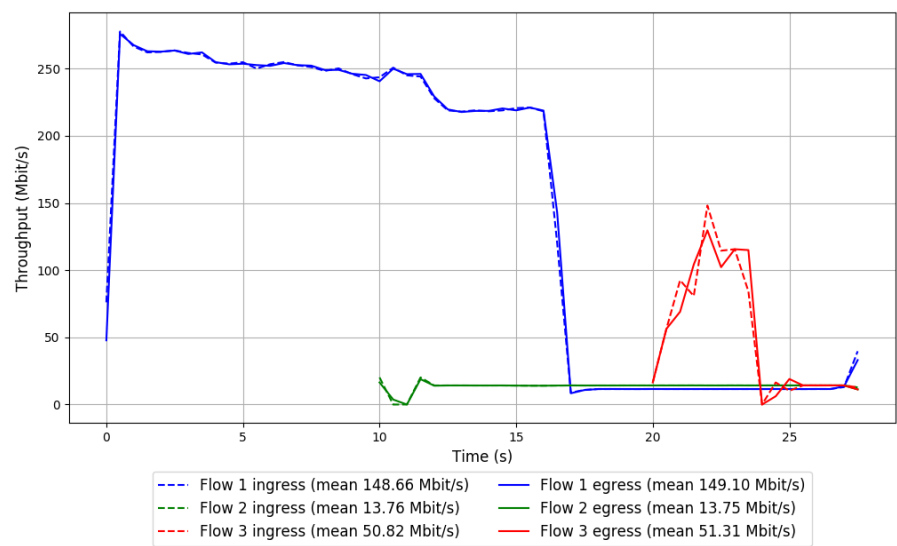
-- Flow 3:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.38%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 21:52:29

End at: 2018-01-09 21:52:59

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.19 Mbit/s

95th percentile per-packet one-way delay: 54.102 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 72.36 Mbit/s

95th percentile per-packet one-way delay: 53.691 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 232.37 Mbit/s

95th percentile per-packet one-way delay: 55.466 ms

Loss rate: 0.05%

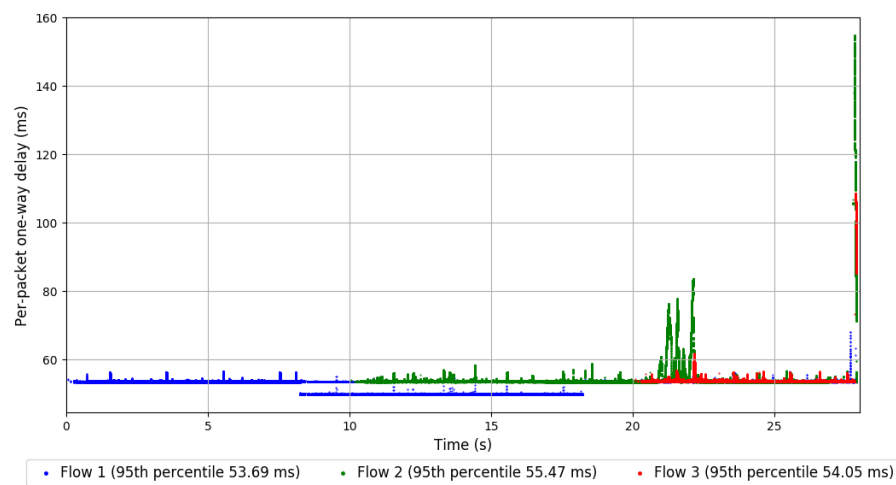
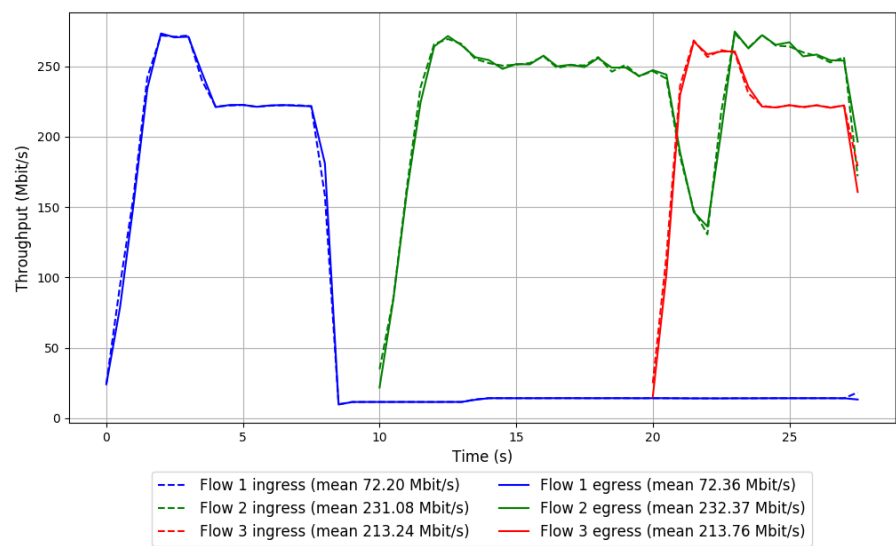
-- Flow 3:

Average throughput: 213.76 Mbit/s

95th percentile per-packet one-way delay: 54.051 ms

Loss rate: 1.25%

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

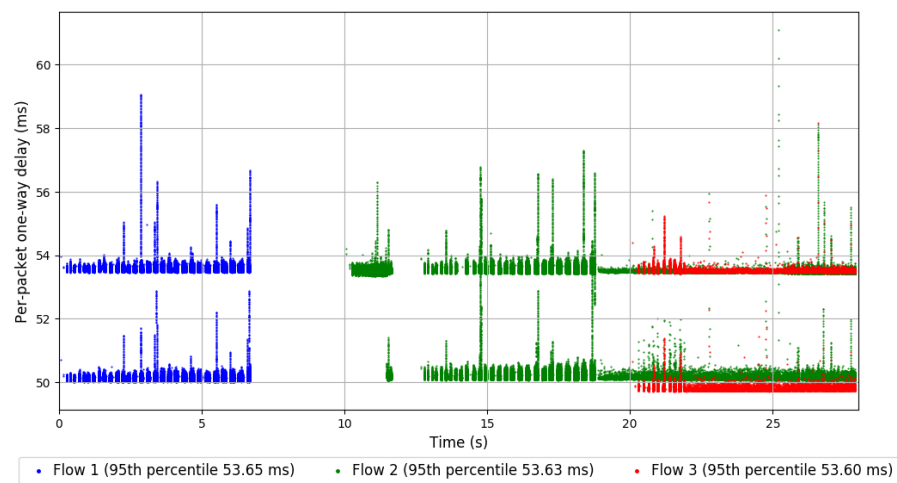
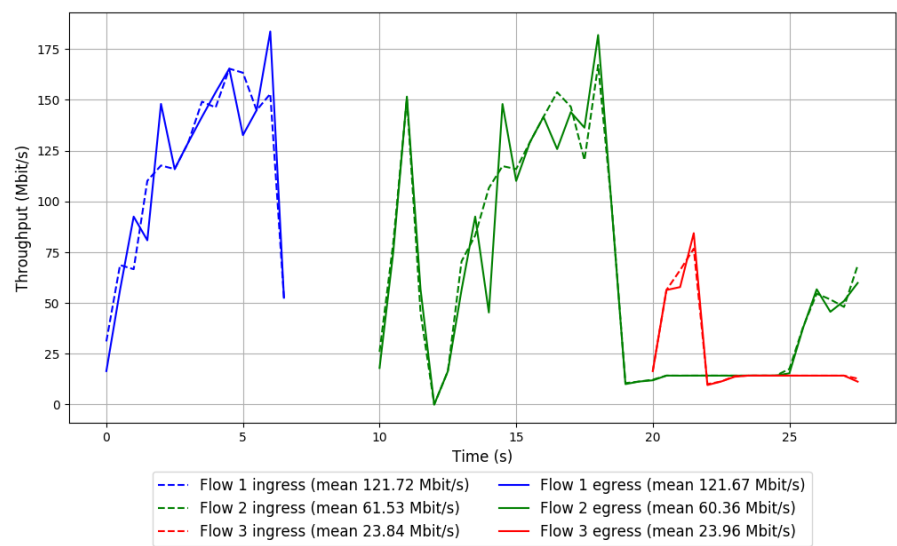


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 22:06:26
End at: 2018-01-09 22:06:56

# Below is generated by plot.py at 2018-01-10 01:27:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.37 Mbit/s
95th percentile per-packet one-way delay: 53.637 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 121.67 Mbit/s
95th percentile per-packet one-way delay: 53.650 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.36 Mbit/s
95th percentile per-packet one-way delay: 53.626 ms
Loss rate: 2.49%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 53.597 ms
Loss rate: 0.80%
```


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

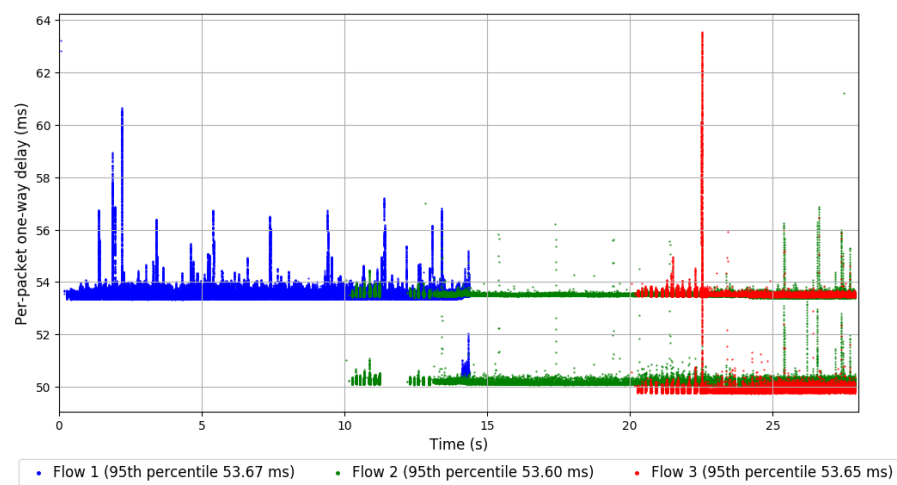
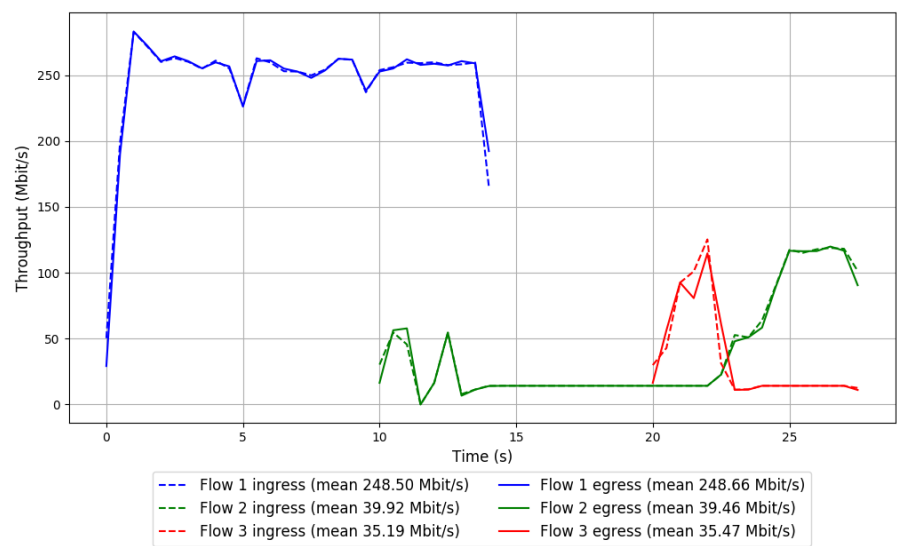


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 22:20:14
End at: 2018-01-09 22:20:44

# Below is generated by plot.py at 2018-01-10 01:27:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.97 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 248.66 Mbit/s
95th percentile per-packet one-way delay: 53.675 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.46 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 53.647 ms
Loss rate: 0.55%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 20:05:55

End at: 2018-01-09 20:06:25

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.57 Mbit/s

95th percentile per-packet one-way delay: 58.748 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 42.84 Mbit/s

95th percentile per-packet one-way delay: 59.427 ms

Loss rate: 3.05%

-- Flow 2:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 54.340 ms

Loss rate: 0.53%

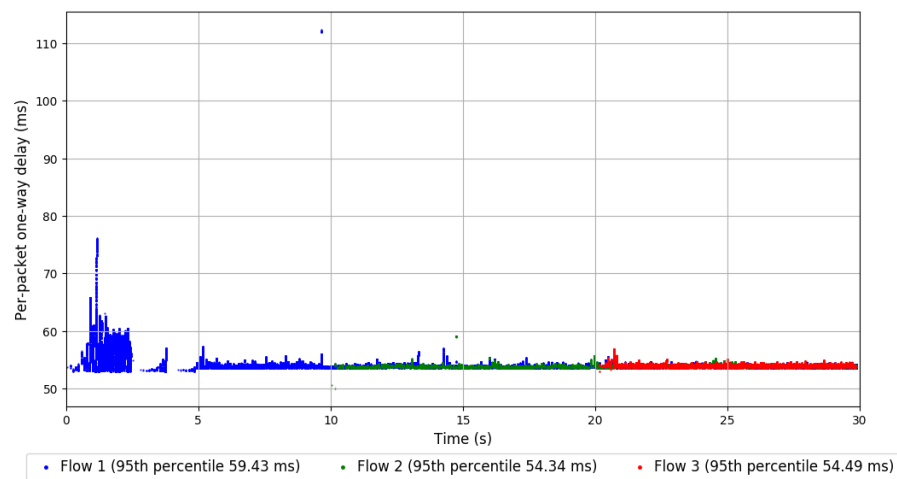
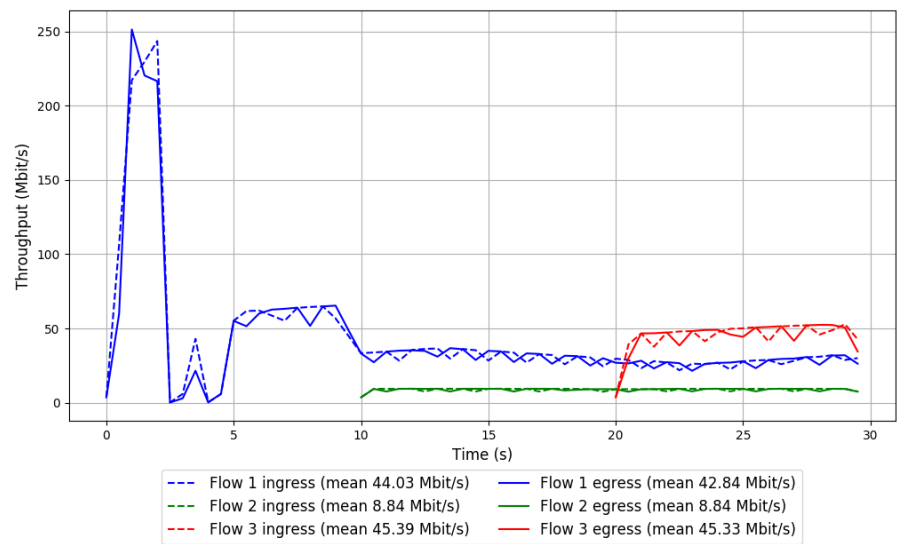
-- Flow 3:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 54.489 ms

Loss rate: 1.19%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 20:19:31

End at: 2018-01-09 20:20:01

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 54.608 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 54.630 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 54.285 ms

Loss rate: 1.01%

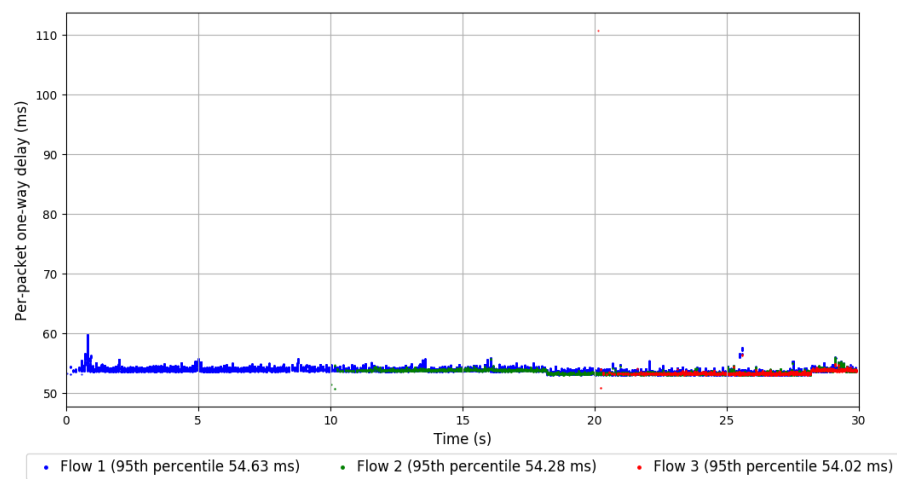
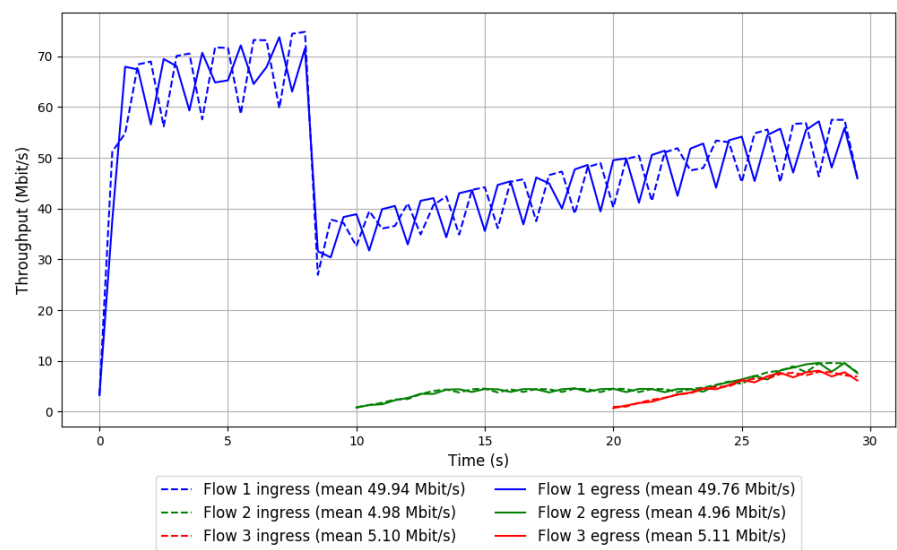
-- Flow 3:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 1.42%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 20:33:15

End at: 2018-01-09 20:33:45

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.45 Mbit/s

95th percentile per-packet one-way delay: 55.048 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 98.45 Mbit/s

95th percentile per-packet one-way delay: 55.082 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 54.544 ms

Loss rate: 1.68%

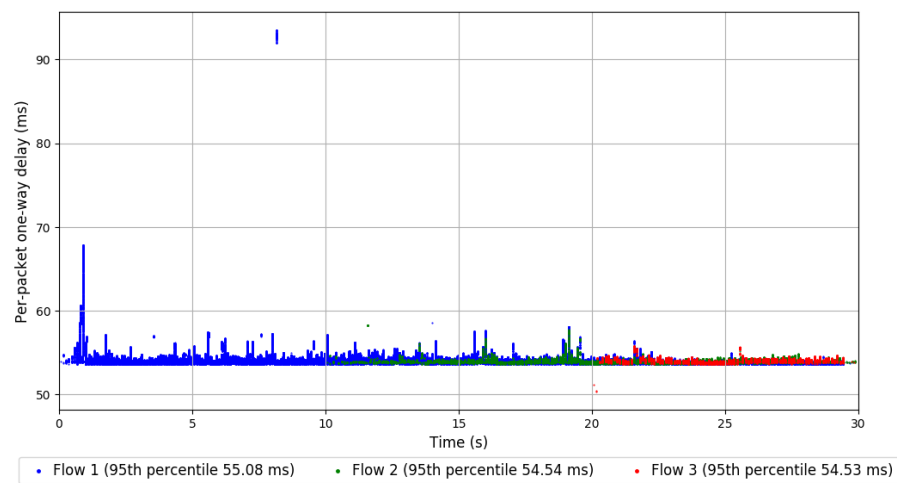
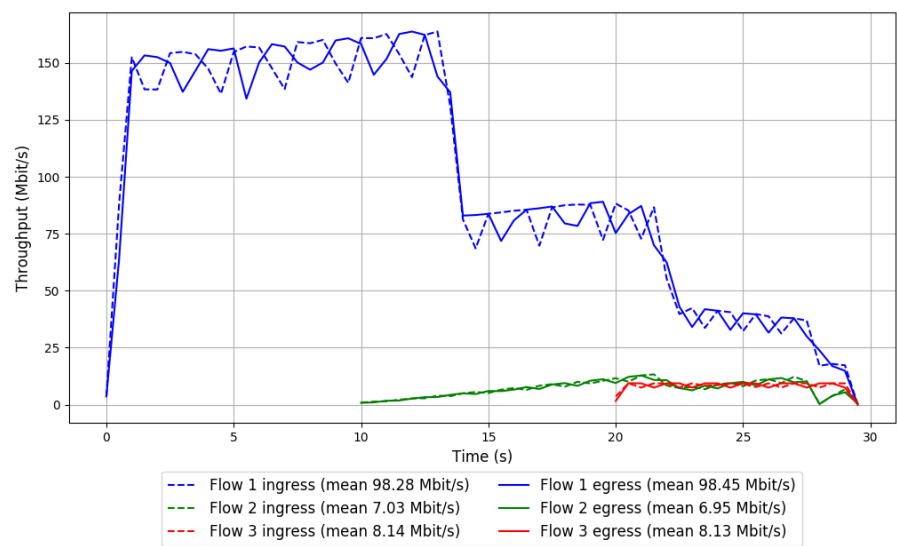
-- Flow 3:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 54.529 ms

Loss rate: 1.19%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 20:47:06

End at: 2018-01-09 20:47:36

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 60.330 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 12.31 Mbit/s

95th percentile per-packet one-way delay: 55.961 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 80.10 Mbit/s

95th percentile per-packet one-way delay: 60.784 ms

Loss rate: 0.30%

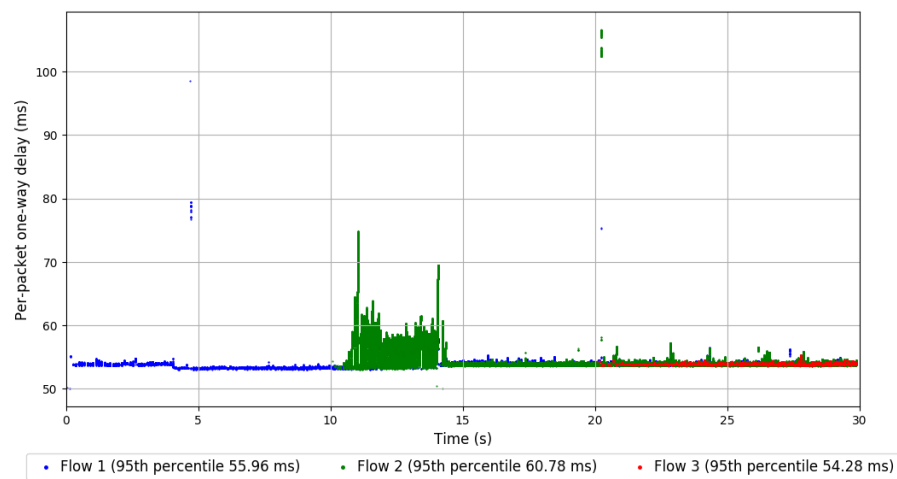
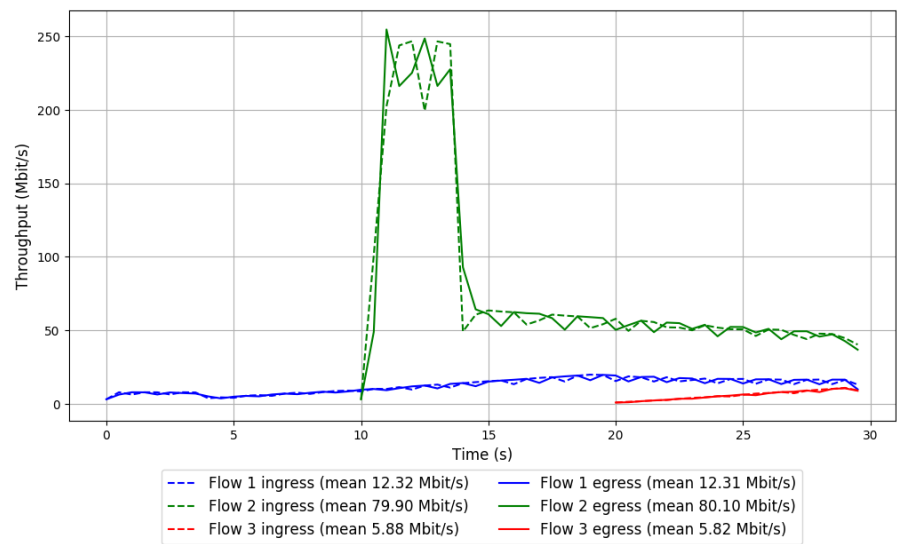
-- Flow 3:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 54.283 ms

Loss rate: 2.06%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 21:00:25

End at: 2018-01-09 21:00:55

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.97 Mbit/s

95th percentile per-packet one-way delay: 53.993 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 54.038 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 1.19%

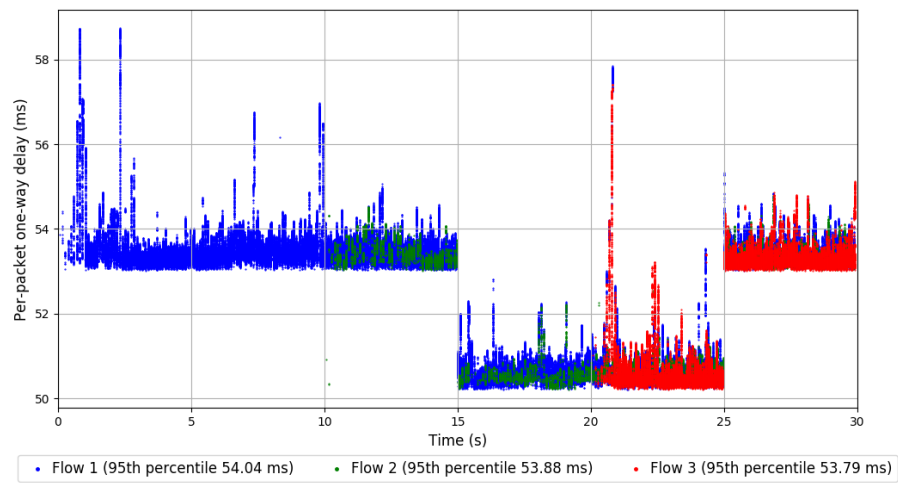
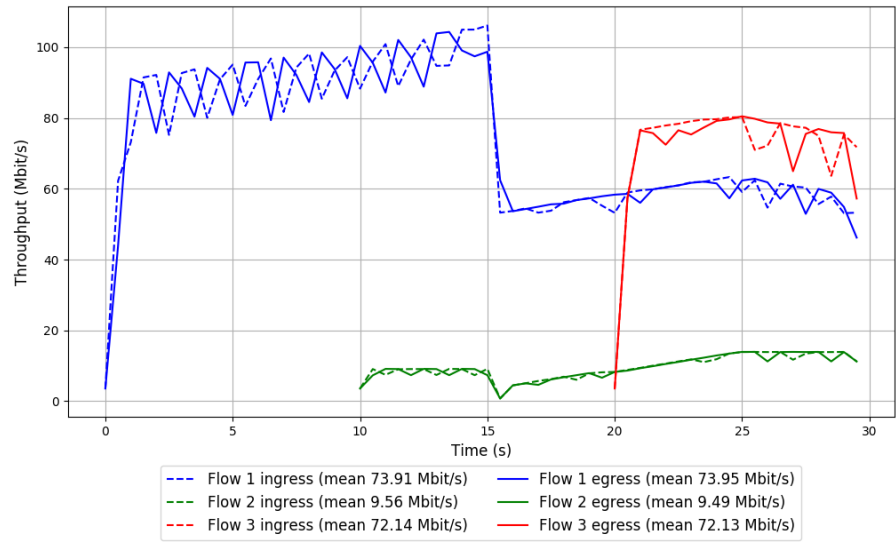
-- Flow 3:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 1.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 21:14:37

End at: 2018-01-09 21:15:07

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.06 Mbit/s

95th percentile per-packet one-way delay: 54.377 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 132.40 Mbit/s

95th percentile per-packet one-way delay: 54.391 ms

Loss rate: 1.10%

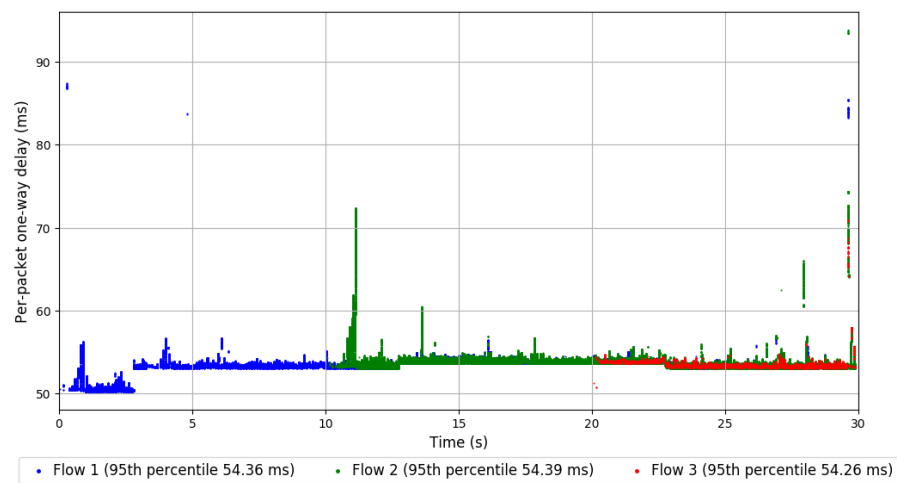
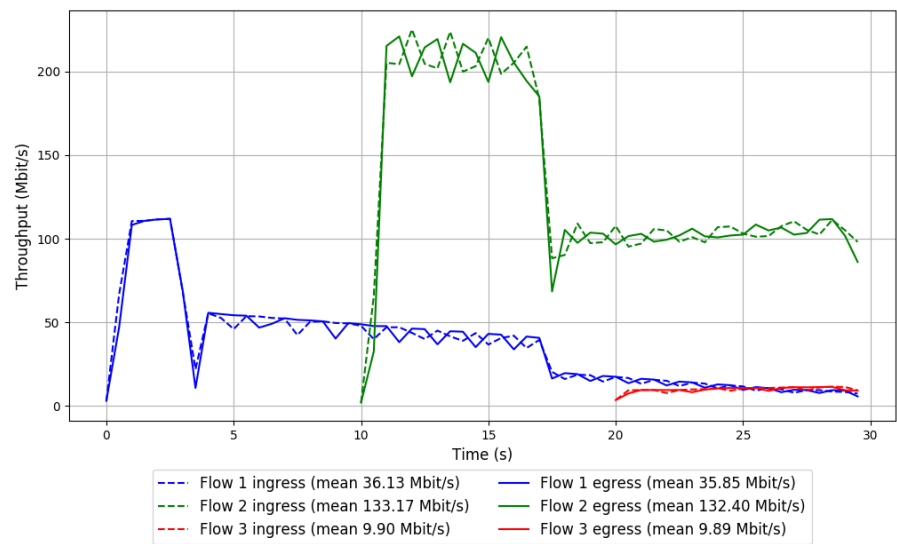
-- Flow 3:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 54.256 ms

Loss rate: 1.17%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 21:28:09

End at: 2018-01-09 21:28:39

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.87 Mbit/s

95th percentile per-packet one-way delay: 55.245 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 54.884 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 79.39 Mbit/s

95th percentile per-packet one-way delay: 55.398 ms

Loss rate: 0.61%

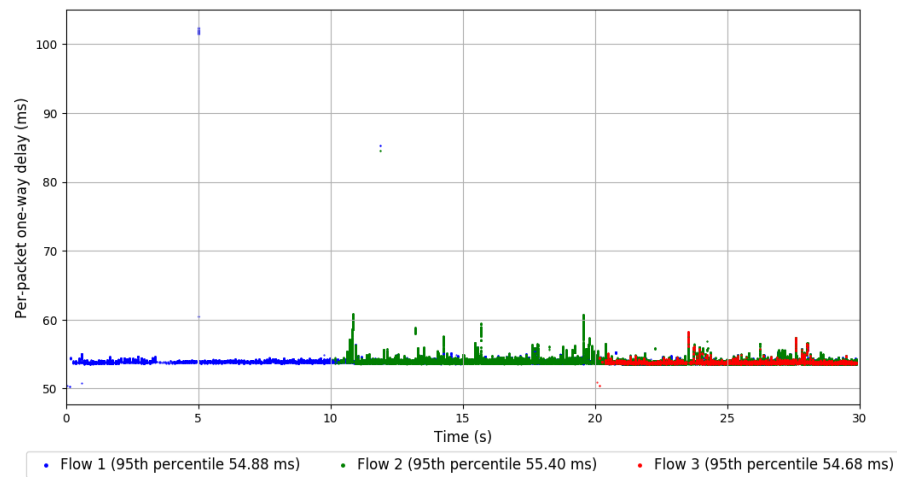
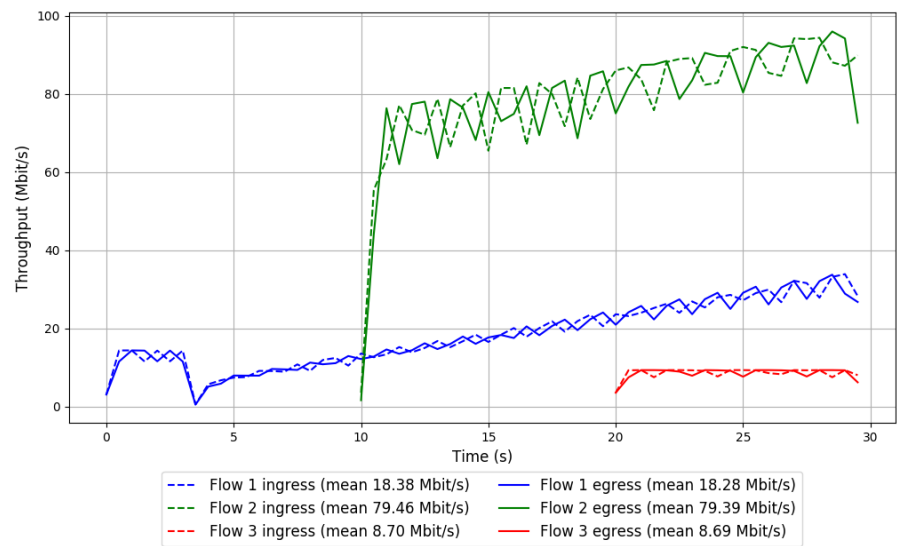
-- Flow 3:

Average throughput: 8.69 Mbit/s

95th percentile per-packet one-way delay: 54.679 ms

Loss rate: 1.08%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 21:41:58

End at: 2018-01-09 21:42:28

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.26 Mbit/s

95th percentile per-packet one-way delay: 54.617 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 65.69 Mbit/s

95th percentile per-packet one-way delay: 54.534 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 54.292 ms

Loss rate: 0.53%

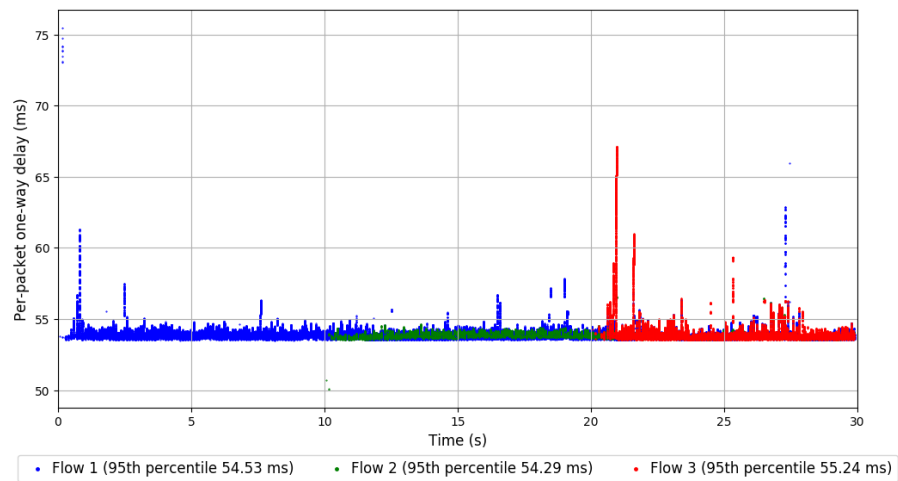
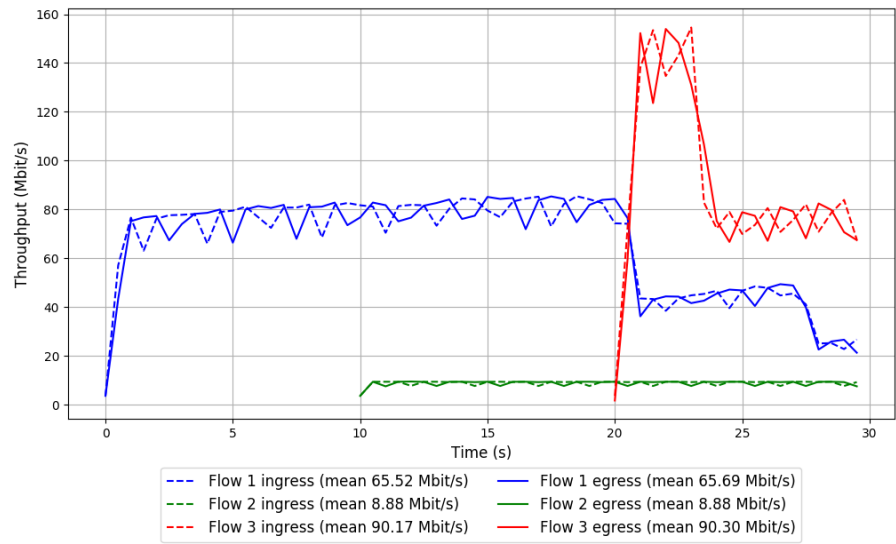
-- Flow 3:

Average throughput: 90.30 Mbit/s

95th percentile per-packet one-way delay: 55.236 ms

Loss rate: 0.95%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 21:55:57

End at: 2018-01-09 21:56:27

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.74 Mbit/s

95th percentile per-packet one-way delay: 54.829 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 54.367 ms

Loss rate: 2.30%

-- Flow 2:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 54.302 ms

Loss rate: 1.95%

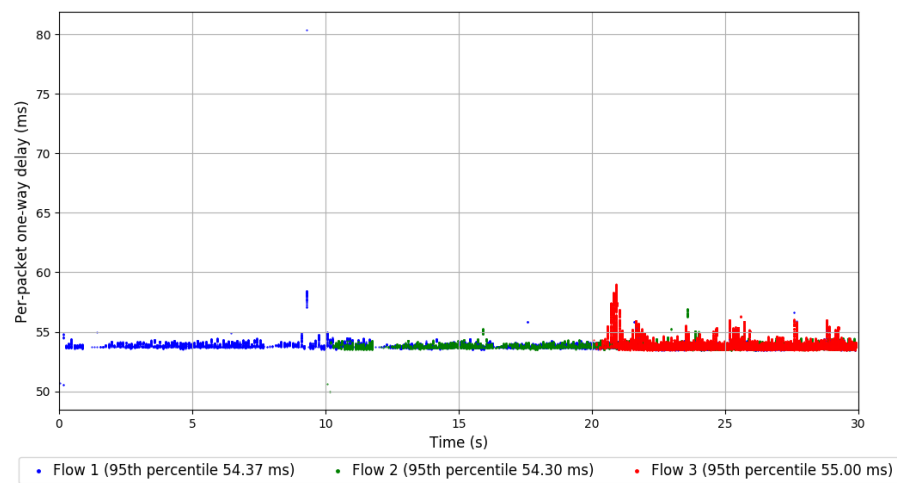
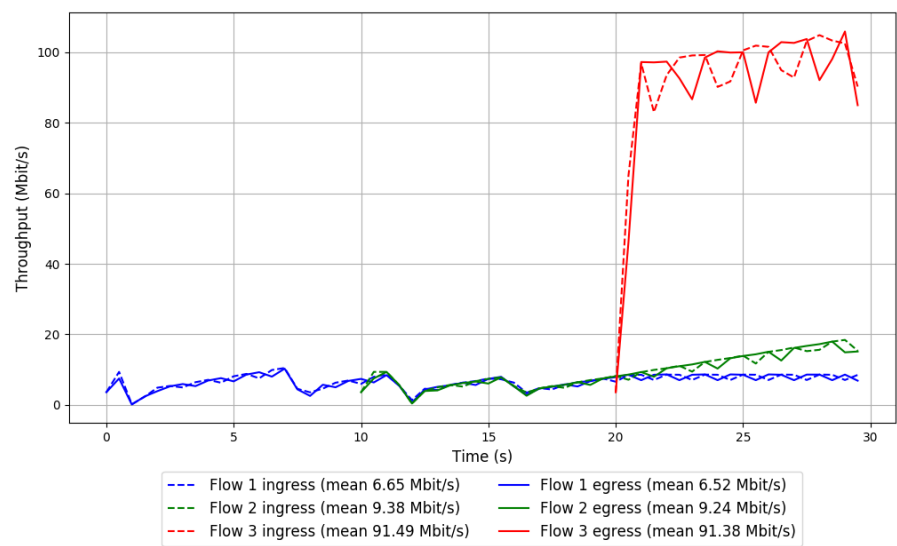
-- Flow 3:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 55.003 ms

Loss rate: 1.17%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 22:09:34

End at: 2018-01-09 22:10:04

Below is generated by plot.py at 2018-01-10 01:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 54.586 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 54.501 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 12.79 Mbit/s

95th percentile per-packet one-way delay: 54.308 ms

Loss rate: 1.35%

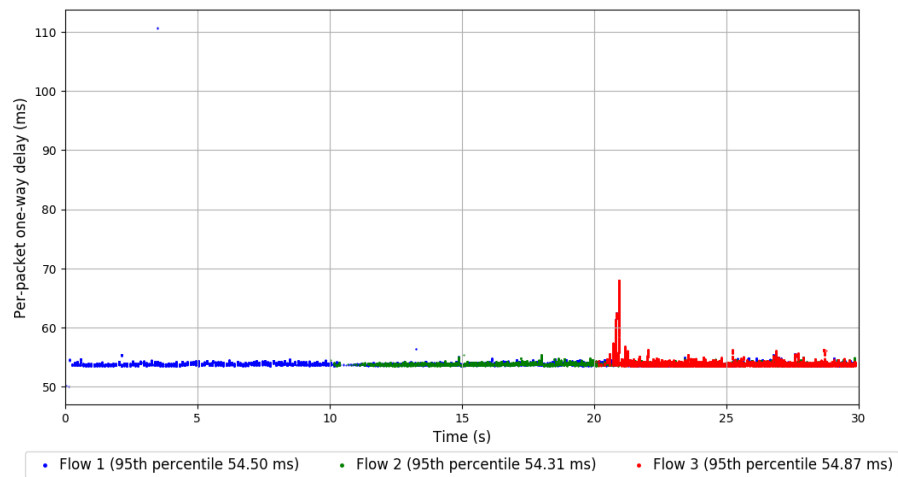
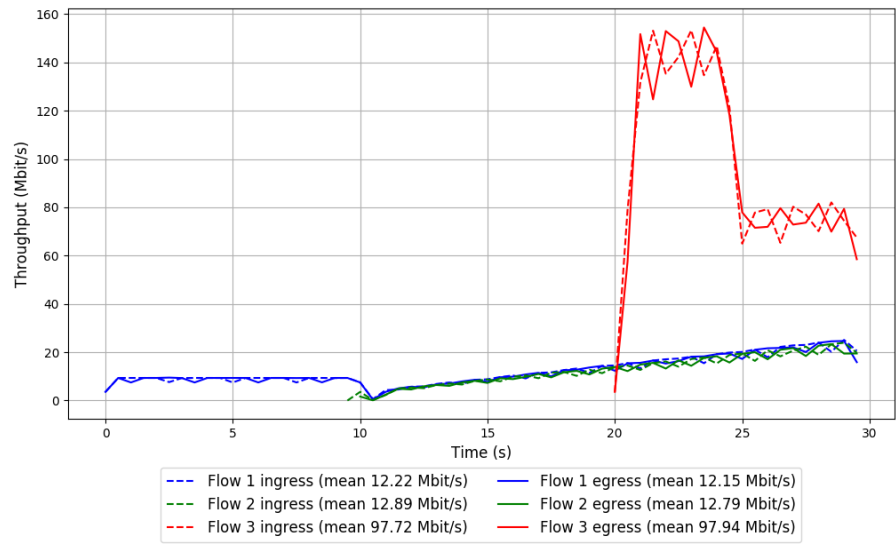
-- Flow 3:

Average throughput: 97.94 Mbit/s

95th percentile per-packet one-way delay: 54.871 ms

Loss rate: 0.86%

Run 10: Report of TCP Vegas — Data Link

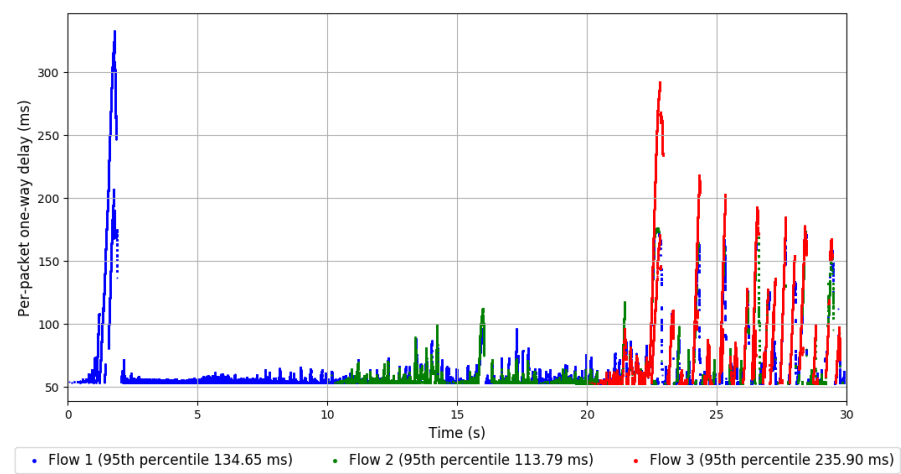
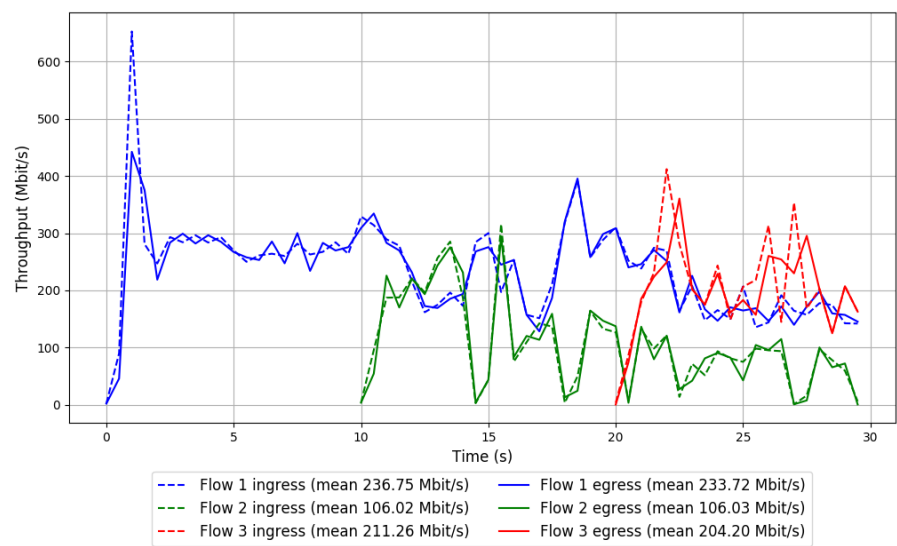


```
Run 1: Statistics of Verus

Start at: 2018-01-09 20:10:10
End at: 2018-01-09 20:10:40

# Below is generated by plot.py at 2018-01-10 01:31:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.94 Mbit/s
95th percentile per-packet one-way delay: 164.047 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 134.650 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 106.03 Mbit/s
95th percentile per-packet one-way delay: 113.787 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 204.20 Mbit/s
95th percentile per-packet one-way delay: 235.896 ms
Loss rate: 3.15%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-09 20:23:40

End at: 2018-01-09 20:24:10

Below is generated by plot.py at 2018-01-10 01:31:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.09 Mbit/s

95th percentile per-packet one-way delay: 121.628 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 204.18 Mbit/s

95th percentile per-packet one-way delay: 112.575 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 148.13 Mbit/s

95th percentile per-packet one-way delay: 124.765 ms

Loss rate: 1.29%

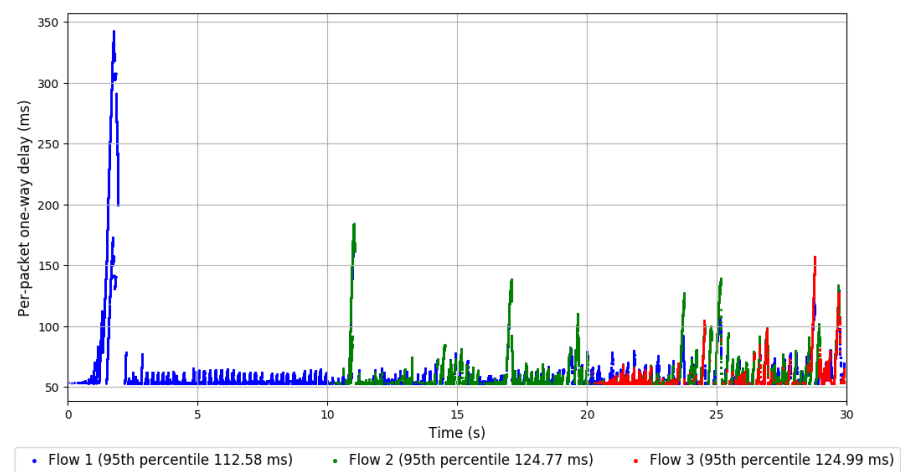
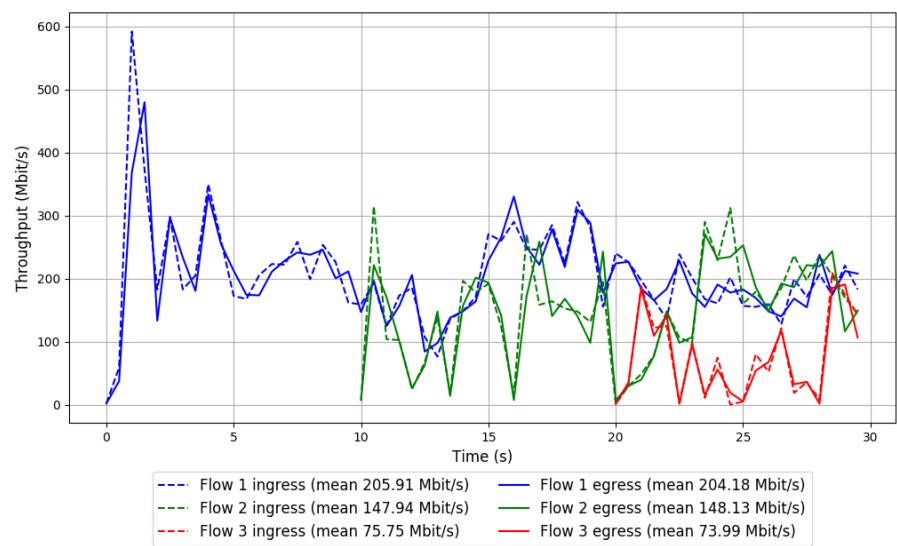
-- Flow 3:

Average throughput: 73.99 Mbit/s

95th percentile per-packet one-way delay: 124.990 ms

Loss rate: 3.37%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-09 20:37:32

End at: 2018-01-09 20:38:02

Below is generated by plot.py at 2018-01-10 01:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.01 Mbit/s

95th percentile per-packet one-way delay: 102.471 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 203.14 Mbit/s

95th percentile per-packet one-way delay: 93.949 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 176.81 Mbit/s

95th percentile per-packet one-way delay: 130.770 ms

Loss rate: 0.03%

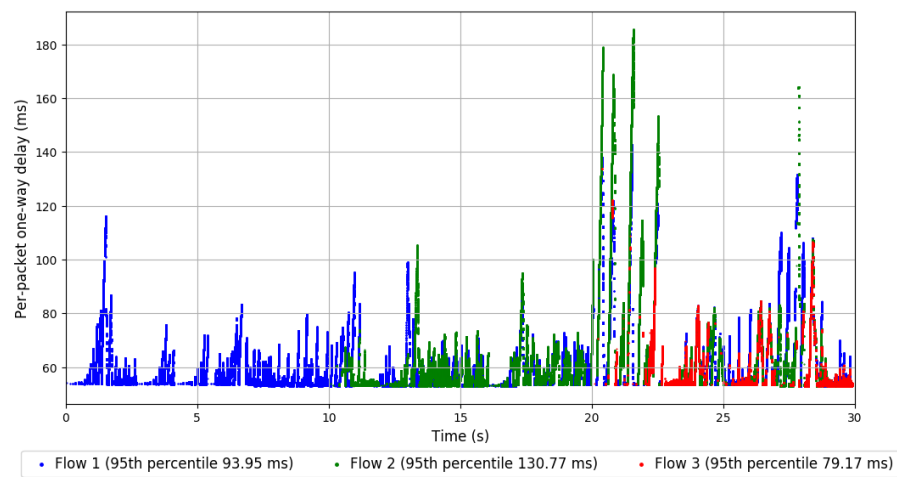
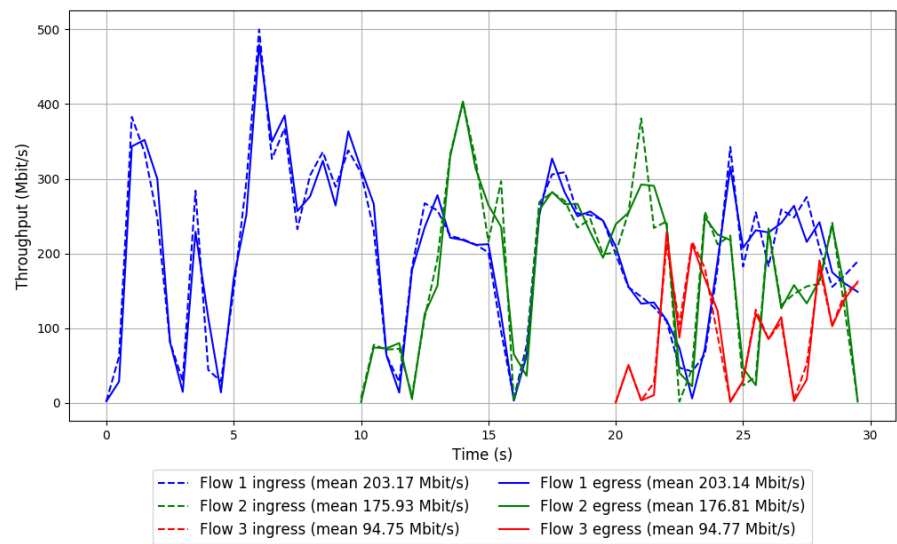
-- Flow 3:

Average throughput: 94.77 Mbit/s

95th percentile per-packet one-way delay: 79.167 ms

Loss rate: 1.04%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 20:51:20

End at: 2018-01-09 20:51:50

Below is generated by plot.py at 2018-01-10 01:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.06 Mbit/s

95th percentile per-packet one-way delay: 82.481 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 218.46 Mbit/s

95th percentile per-packet one-way delay: 80.990 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 130.90 Mbit/s

95th percentile per-packet one-way delay: 93.243 ms

Loss rate: 2.61%

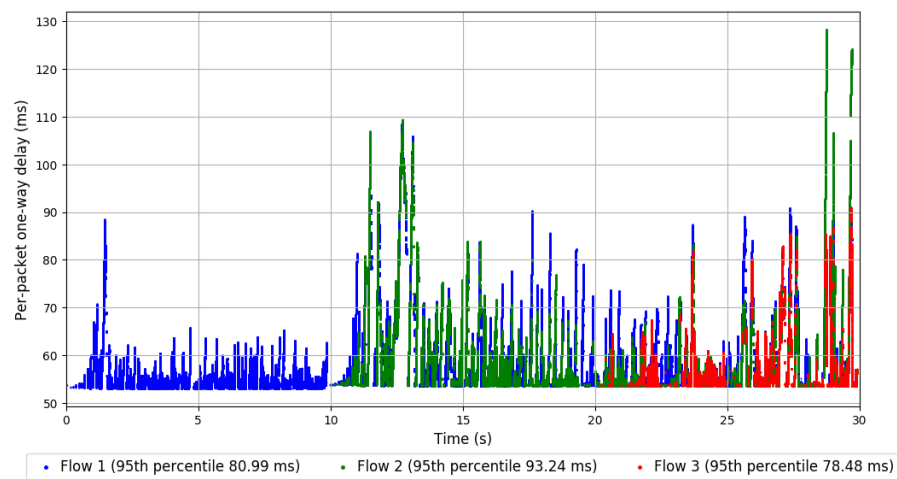
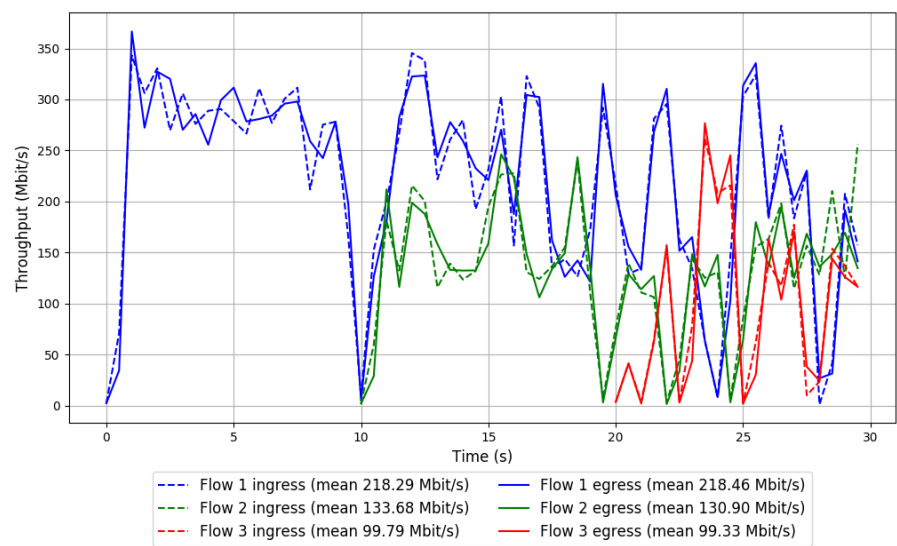
-- Flow 3:

Average throughput: 99.33 Mbit/s

95th percentile per-packet one-way delay: 78.482 ms

Loss rate: 1.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-09 21:04:47

End at: 2018-01-09 21:05:17

Below is generated by plot.py at 2018-01-10 01:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.04 Mbit/s

95th percentile per-packet one-way delay: 150.581 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 234.05 Mbit/s

95th percentile per-packet one-way delay: 123.593 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 185.81 Mbit/s

95th percentile per-packet one-way delay: 124.615 ms

Loss rate: 0.93%

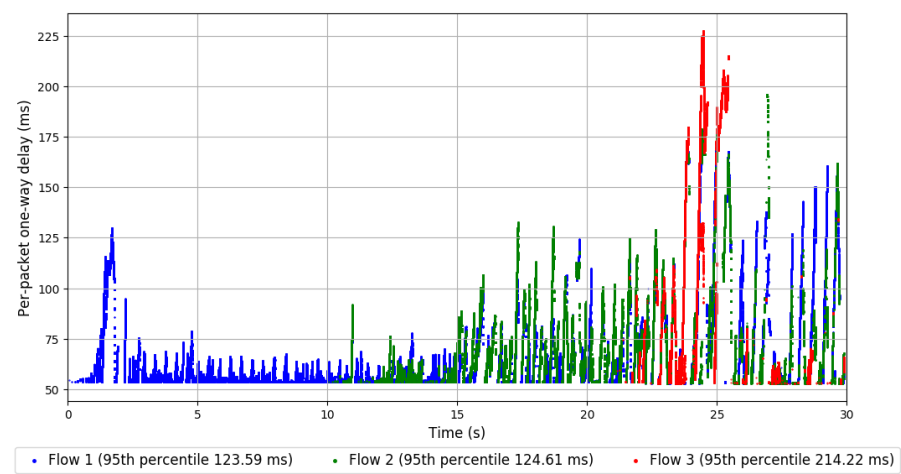
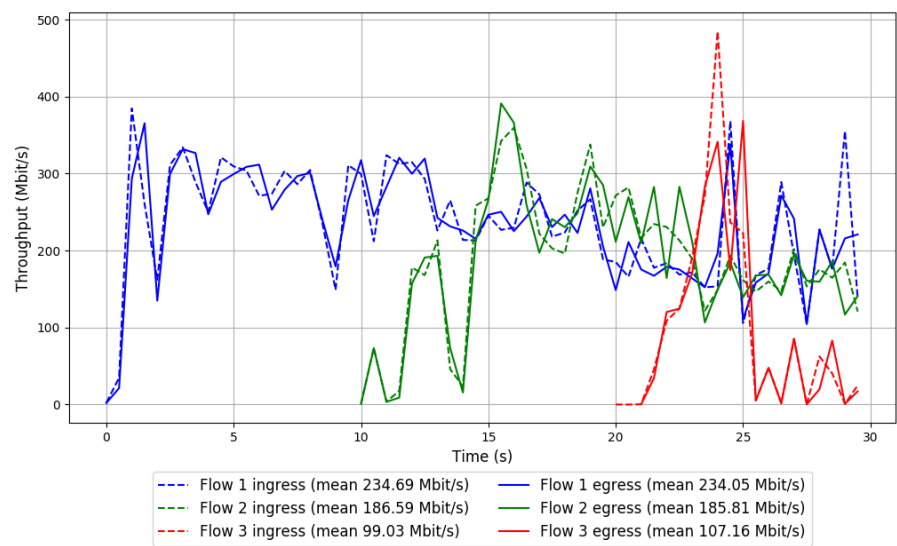
-- Flow 3:

Average throughput: 107.16 Mbit/s

95th percentile per-packet one-way delay: 214.220 ms

Loss rate: 3.88%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 21:18:53

End at: 2018-01-09 21:19:23

Below is generated by plot.py at 2018-01-10 01:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.47 Mbit/s

95th percentile per-packet one-way delay: 150.645 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 191.29 Mbit/s

95th percentile per-packet one-way delay: 129.502 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 179.23 Mbit/s

95th percentile per-packet one-way delay: 111.482 ms

Loss rate: 2.04%

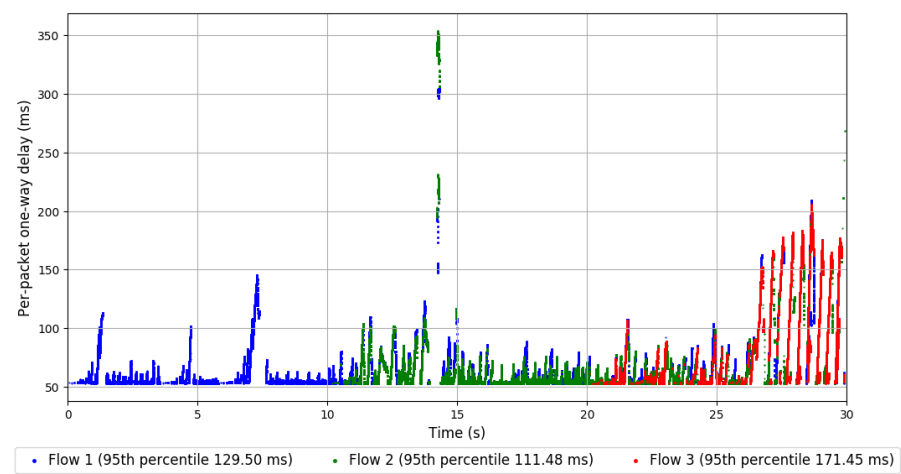
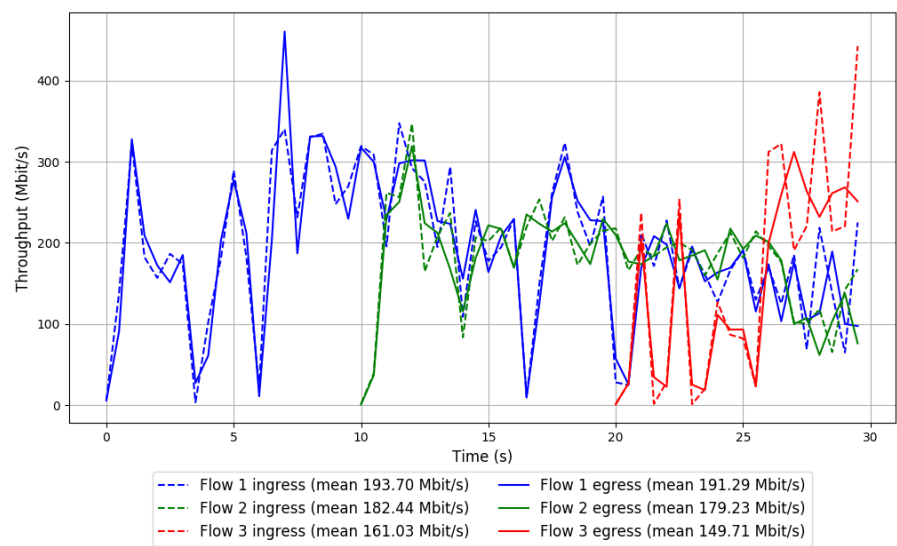
-- Flow 3:

Average throughput: 149.71 Mbit/s

95th percentile per-packet one-way delay: 171.447 ms

Loss rate: 8.15%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-09 21:32:24

End at: 2018-01-09 21:32:54

Below is generated by plot.py at 2018-01-10 01:32:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.26 Mbit/s

95th percentile per-packet one-way delay: 117.187 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 250.27 Mbit/s

95th percentile per-packet one-way delay: 106.797 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 173.77 Mbit/s

95th percentile per-packet one-way delay: 117.752 ms

Loss rate: 0.89%

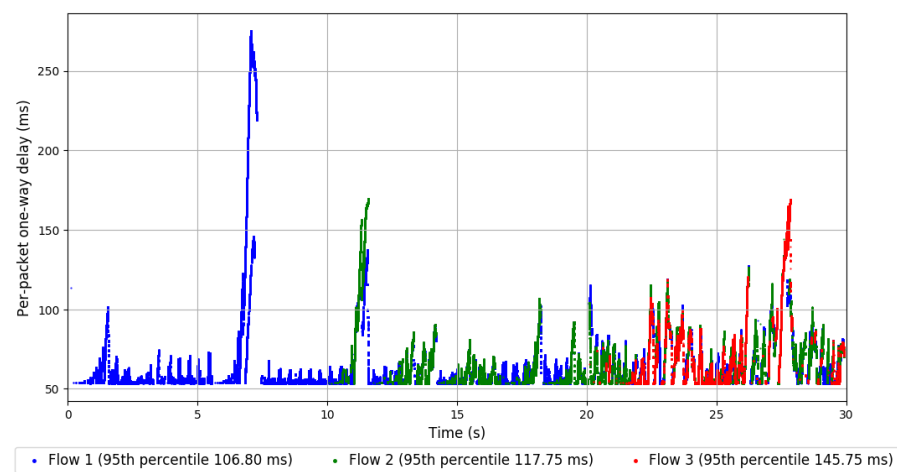
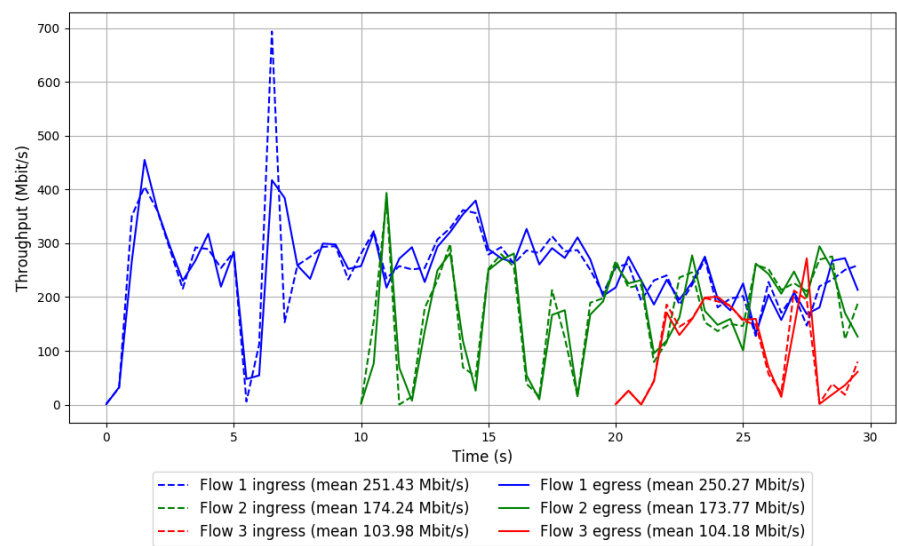
-- Flow 3:

Average throughput: 104.18 Mbit/s

95th percentile per-packet one-way delay: 145.753 ms

Loss rate: 1.08%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 21:46:12

End at: 2018-01-09 21:46:42

Below is generated by plot.py at 2018-01-10 01:35:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.93 Mbit/s

95th percentile per-packet one-way delay: 118.459 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 197.44 Mbit/s

95th percentile per-packet one-way delay: 103.291 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 220.66 Mbit/s

95th percentile per-packet one-way delay: 126.769 ms

Loss rate: 0.71%

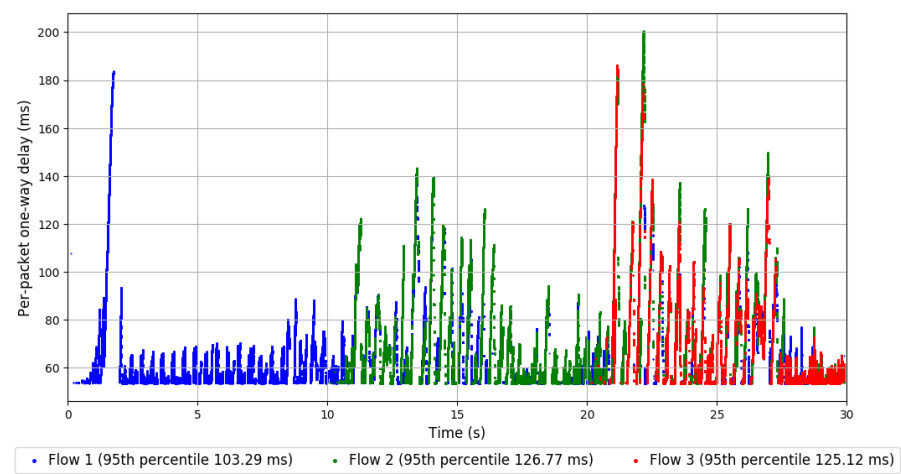
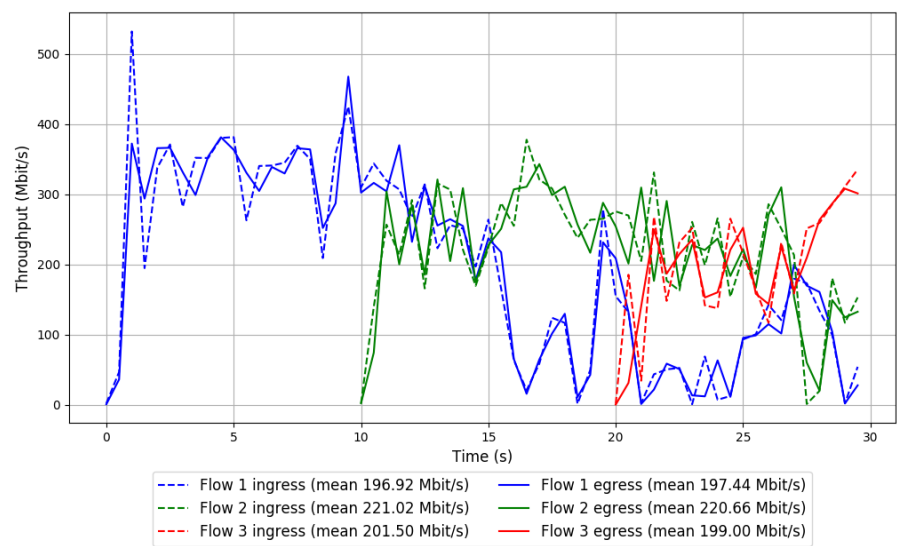
-- Flow 3:

Average throughput: 199.00 Mbit/s

95th percentile per-packet one-way delay: 125.117 ms

Loss rate: 2.24%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-09 22:00:11

End at: 2018-01-09 22:00:41

Below is generated by plot.py at 2018-01-10 01:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.83 Mbit/s

95th percentile per-packet one-way delay: 101.242 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 198.96 Mbit/s

95th percentile per-packet one-way delay: 100.818 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 147.62 Mbit/s

95th percentile per-packet one-way delay: 100.418 ms

Loss rate: 1.24%

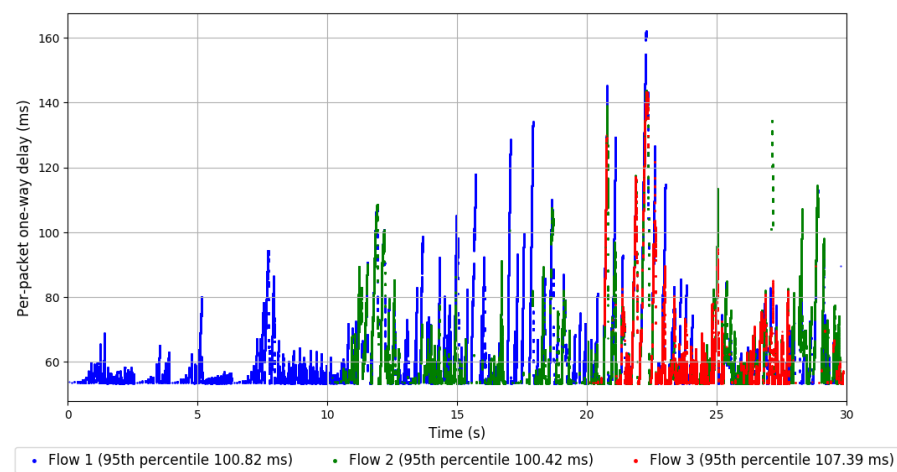
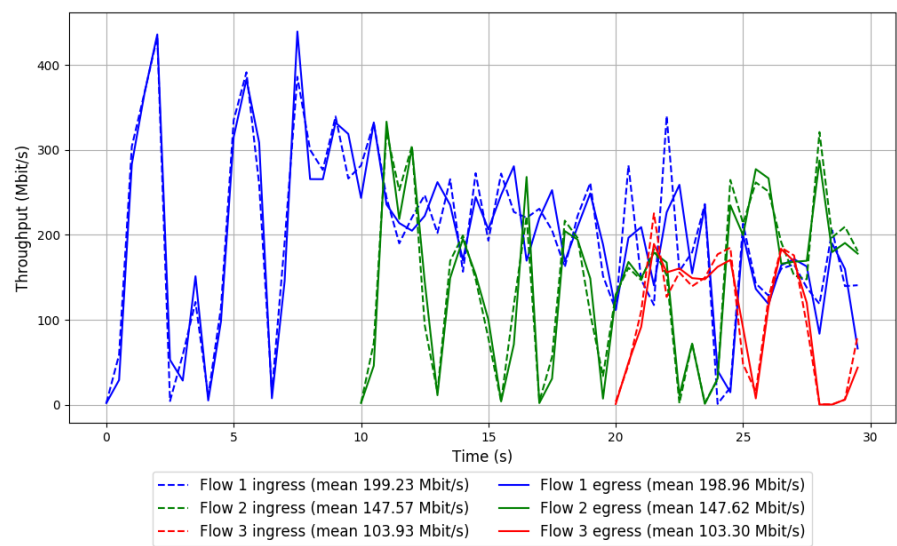
-- Flow 3:

Average throughput: 103.30 Mbit/s

95th percentile per-packet one-way delay: 107.386 ms

Loss rate: 1.87%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 22:13:57

End at: 2018-01-09 22:14:27

Below is generated by plot.py at 2018-01-10 01:38:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.48 Mbit/s

95th percentile per-packet one-way delay: 193.786 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 212.57 Mbit/s

95th percentile per-packet one-way delay: 161.563 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 227.310 ms

Loss rate: 5.07%

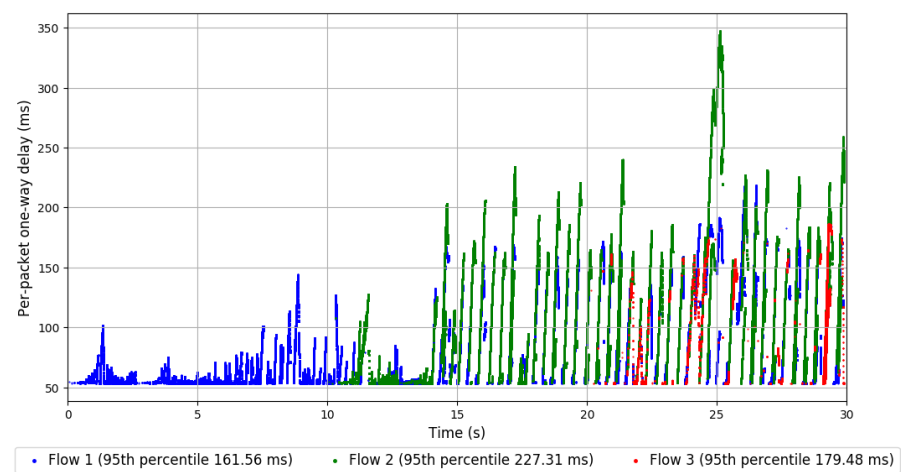
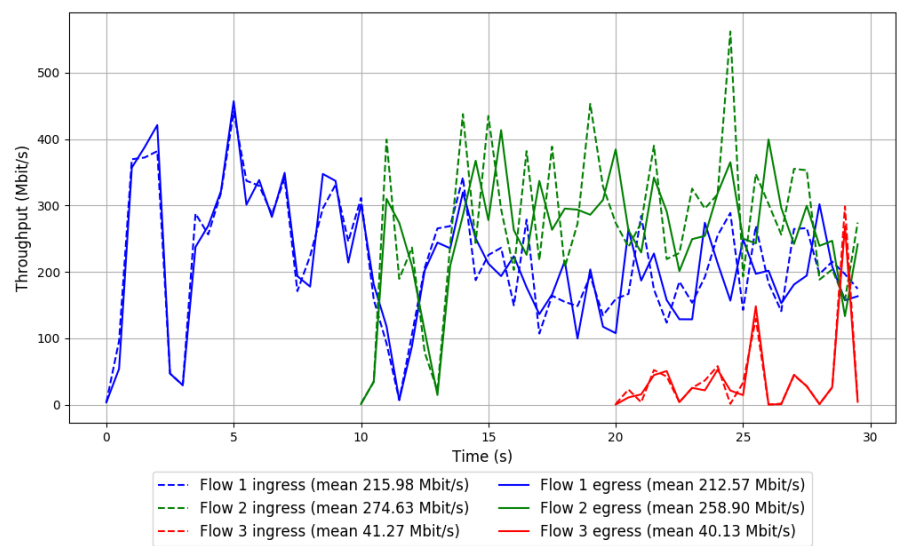
-- Flow 3:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 179.479 ms

Loss rate: 4.04%

Run 10: Report of Verus — Data Link

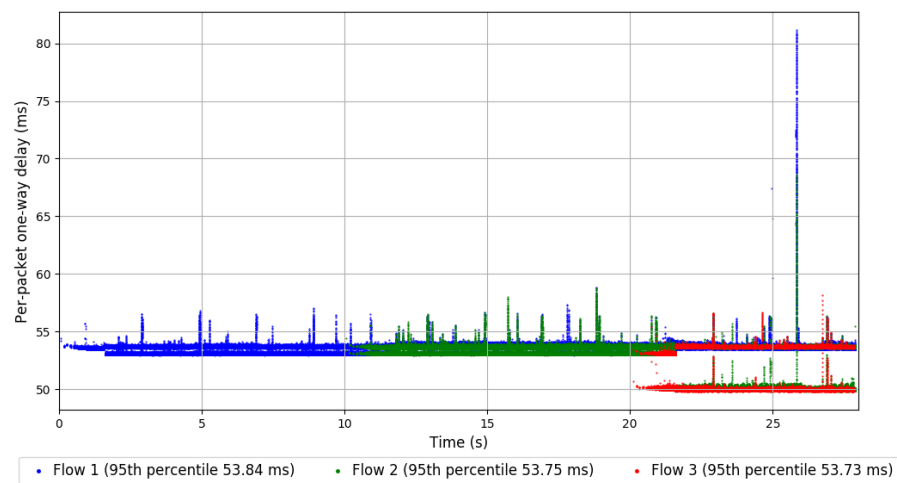
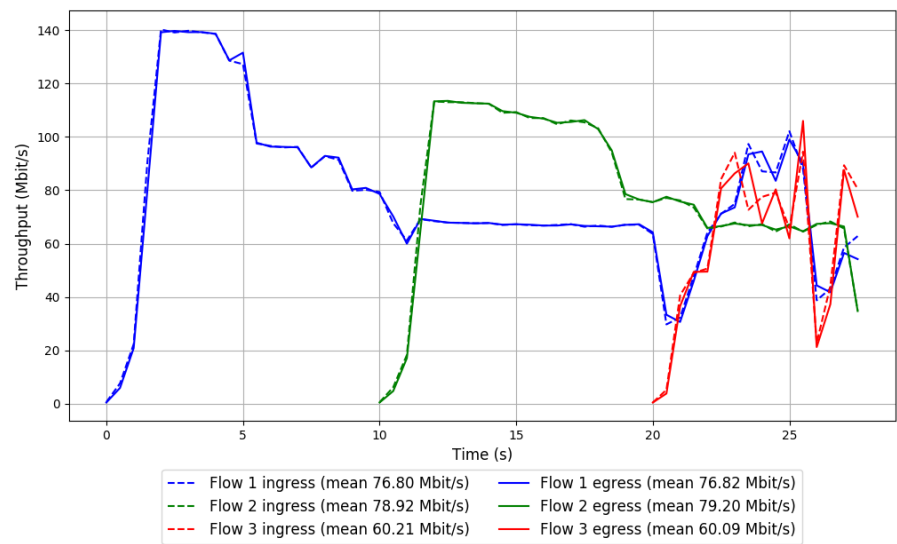


```
Run 1: Statistics of Copa

Start at: 2018-01-09 20:12:16
End at: 2018-01-09 20:12:46

# Below is generated by plot.py at 2018-01-10 01:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.22 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 76.82 Mbit/s
95th percentile per-packet one-way delay: 53.837 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 79.20 Mbit/s
95th percentile per-packet one-way delay: 53.753 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 60.09 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 2.26%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-09 20:25:45

End at: 2018-01-09 20:26:15

Below is generated by plot.py at 2018-01-10 01:38:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.69 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 0.46%

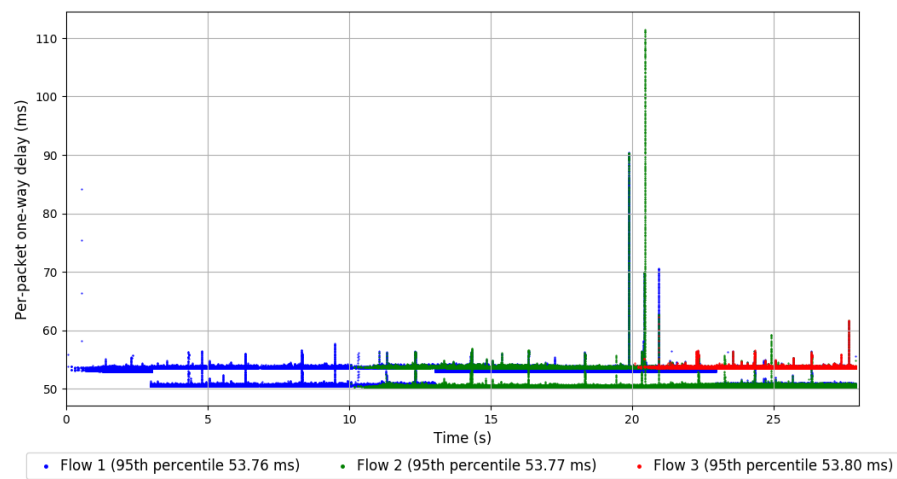
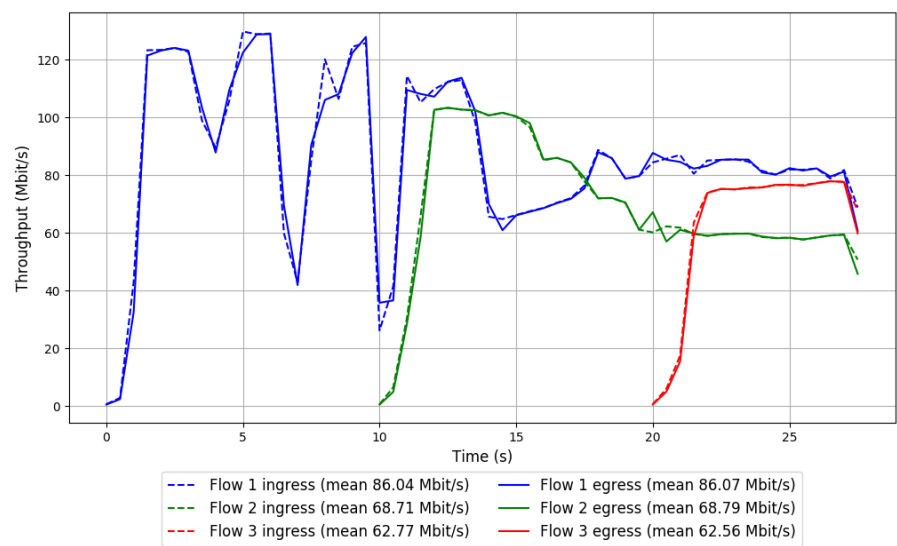
-- Flow 3:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 1.65%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 20:39:36

End at: 2018-01-09 20:40:06

Below is generated by plot.py at 2018-01-10 01:38:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.64 Mbit/s

95th percentile per-packet one-way delay: 53.782 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 76.63 Mbit/s

95th percentile per-packet one-way delay: 53.856 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 73.26 Mbit/s

95th percentile per-packet one-way delay: 53.192 ms

Loss rate: 0.45%

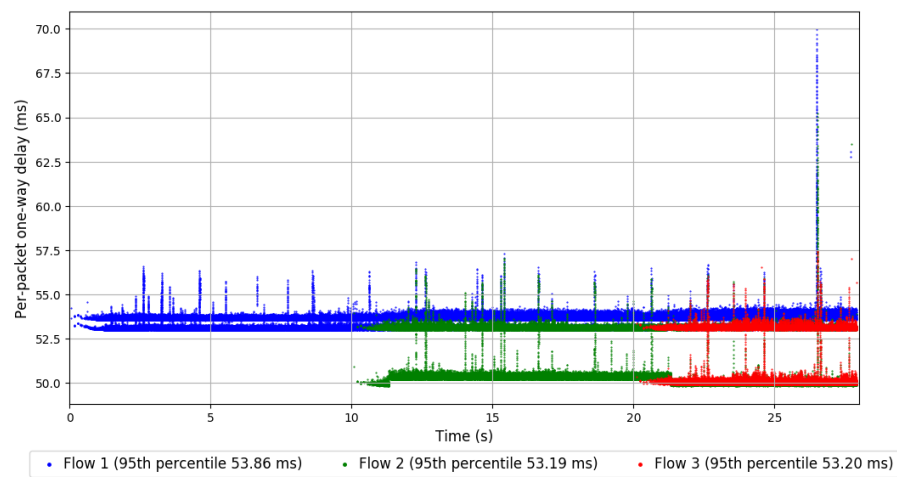
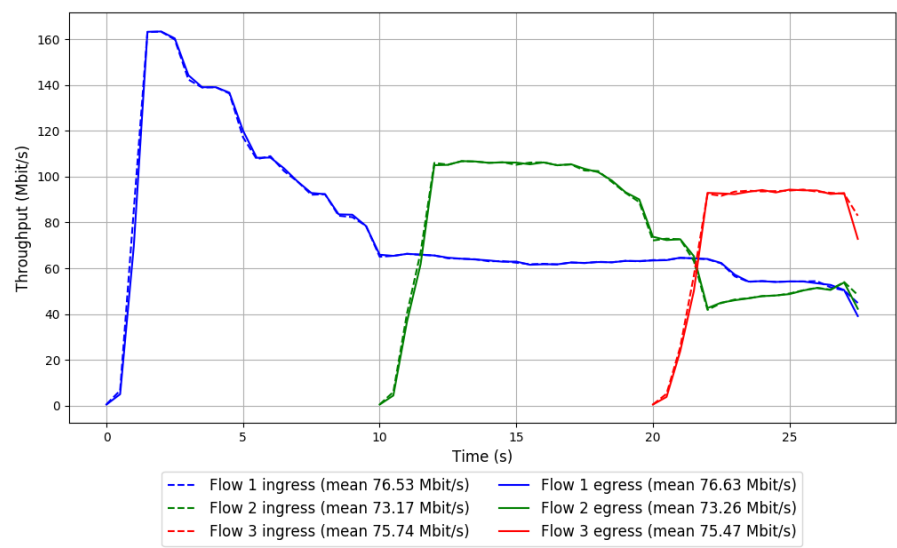
-- Flow 3:

Average throughput: 75.47 Mbit/s

95th percentile per-packet one-way delay: 53.205 ms

Loss rate: 1.64%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-09 20:53:24

End at: 2018-01-09 20:53:54

Below is generated by plot.py at 2018-01-10 01:38:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.99 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 53.756 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 75.10 Mbit/s

95th percentile per-packet one-way delay: 53.759 ms

Loss rate: 0.56%

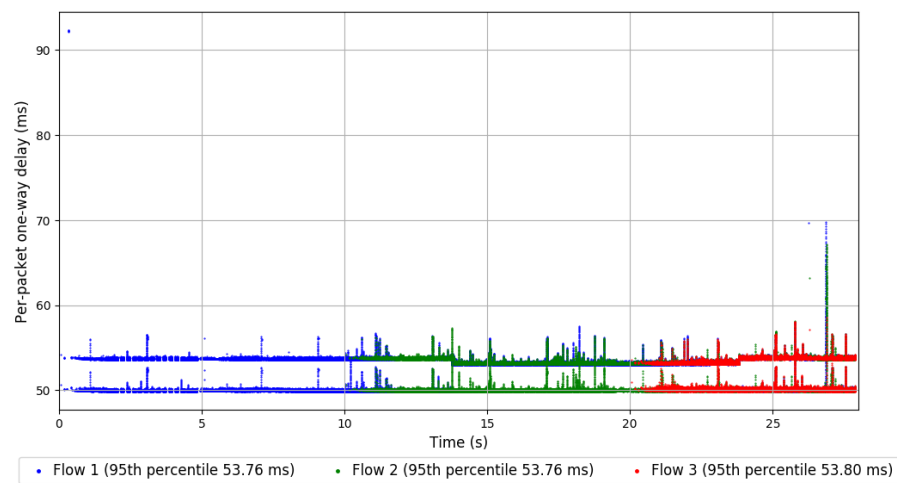
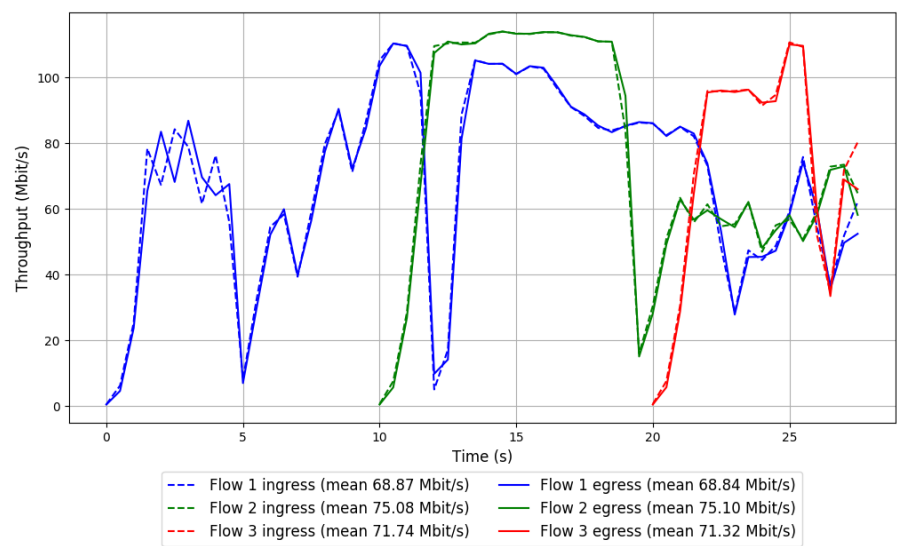
-- Flow 3:

Average throughput: 71.32 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 1.89%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 21:06:54

End at: 2018-01-09 21:07:24

Below is generated by plot.py at 2018-01-10 01:38:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.41 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 53.728 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 53.656 ms

Loss rate: 0.53%

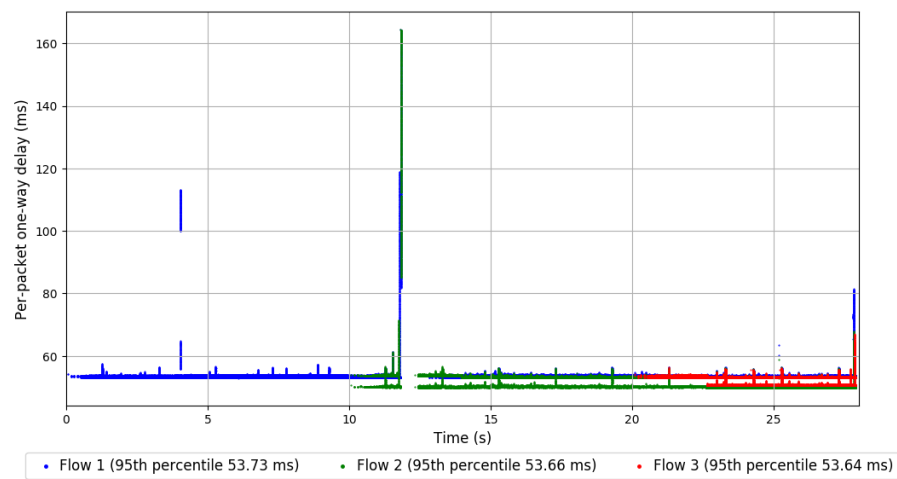
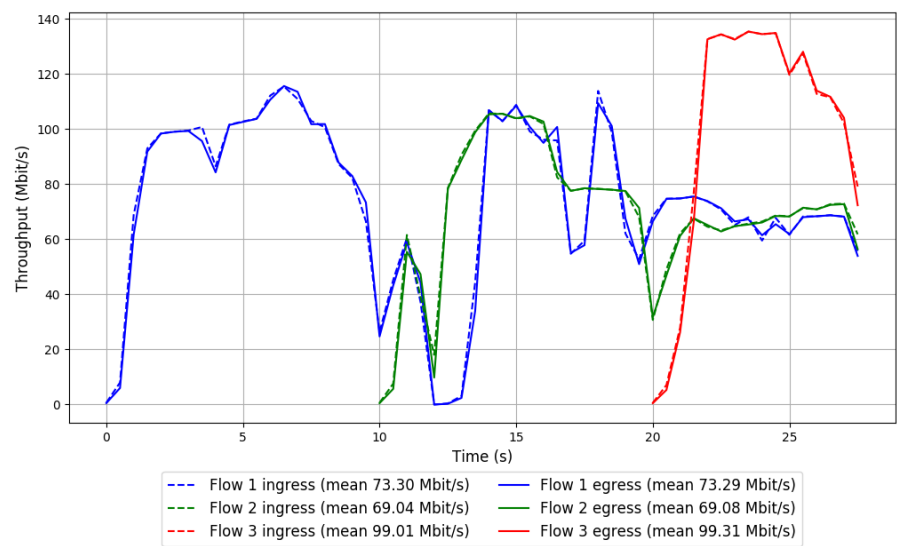
-- Flow 3:

Average throughput: 99.31 Mbit/s

95th percentile per-packet one-way delay: 53.636 ms

Loss rate: 1.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 21:20:59

End at: 2018-01-09 21:21:29

Below is generated by plot.py at 2018-01-10 01:38:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.41 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 65.26 Mbit/s

95th percentile per-packet one-way delay: 53.164 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 68.72 Mbit/s

95th percentile per-packet one-way delay: 53.680 ms

Loss rate: 0.64%

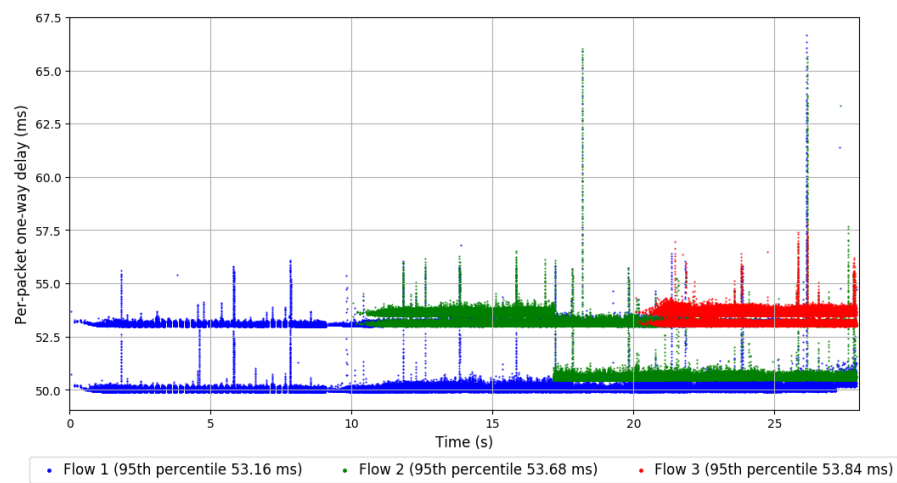
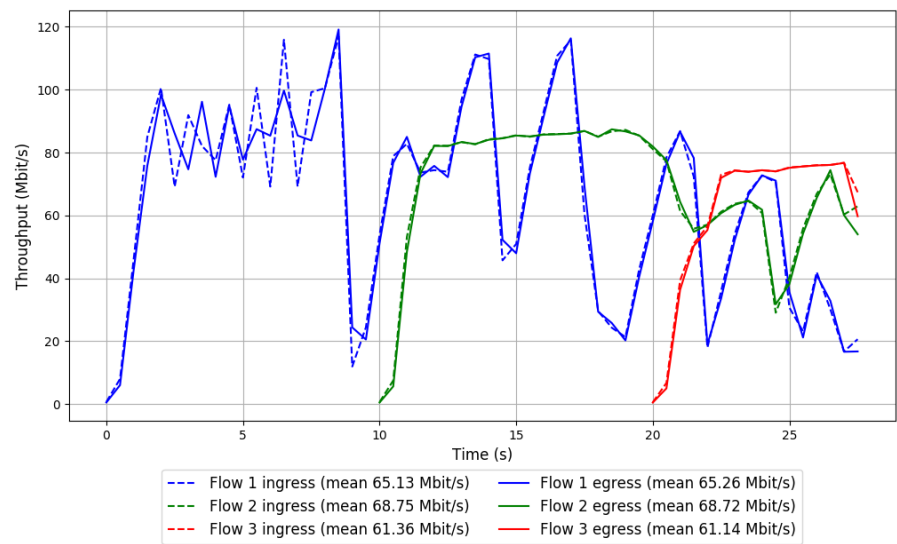
-- Flow 3:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 53.837 ms

Loss rate: 1.63%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 21:34:32

End at: 2018-01-09 21:35:02

Below is generated by plot.py at 2018-01-10 01:39:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.91 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 69.93 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.57%

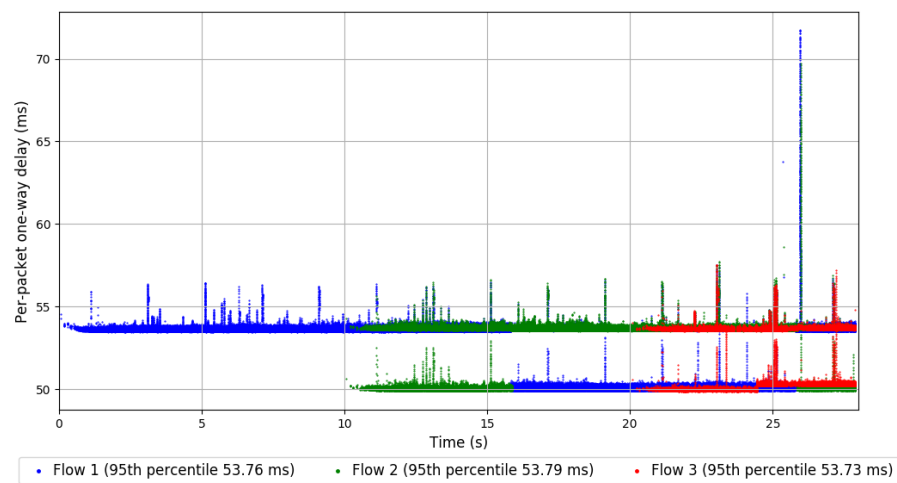
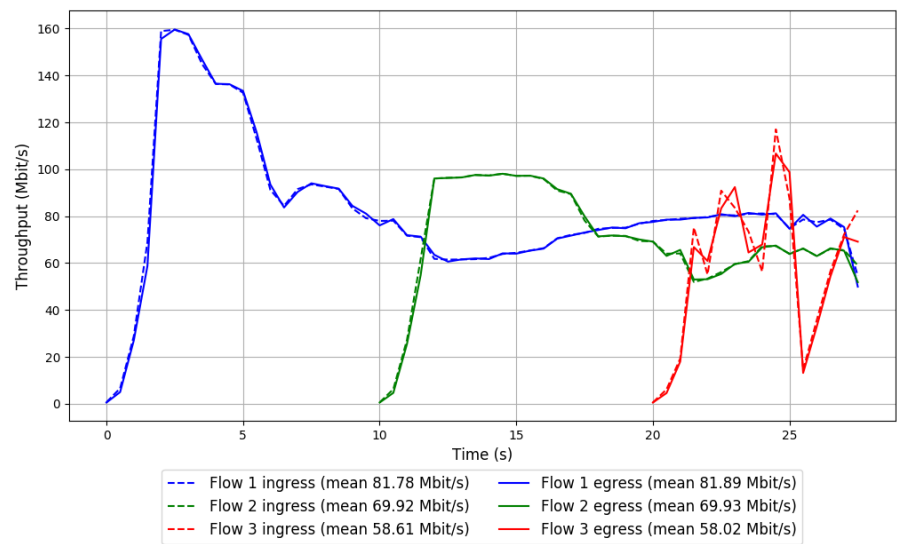
-- Flow 3:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 2.31%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-09 21:48:22

End at: 2018-01-09 21:48:52

Below is generated by plot.py at 2018-01-10 01:39:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.35 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 79.54 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 44.75 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.09%

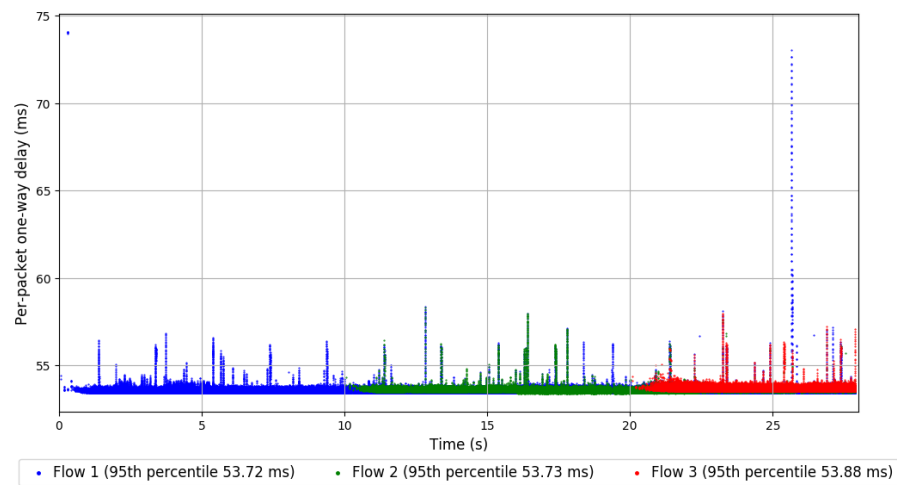
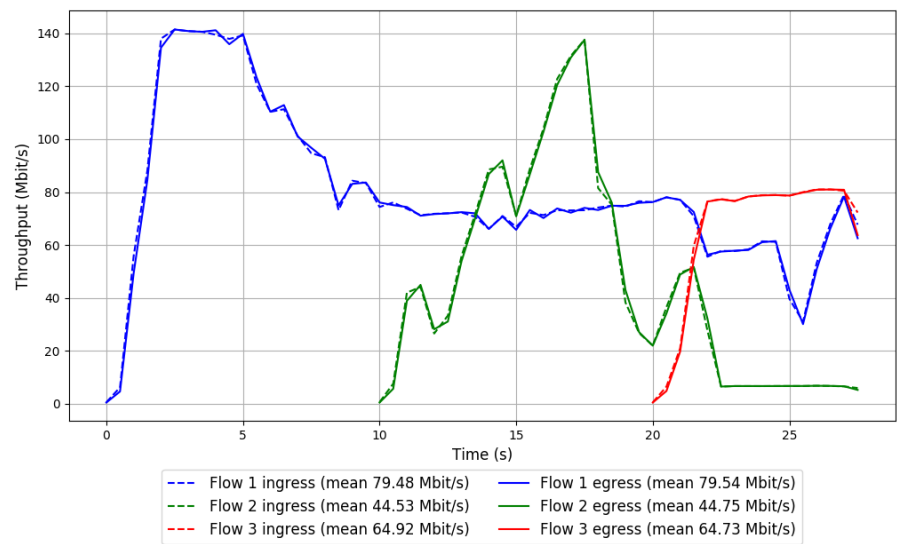
-- Flow 3:

Average throughput: 64.73 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 1.65%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 22:02:16

End at: 2018-01-09 22:02:46

Below is generated by plot.py at 2018-01-10 01:39:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.64 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 75.75 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 80.10 Mbit/s

95th percentile per-packet one-way delay: 53.664 ms

Loss rate: 0.49%

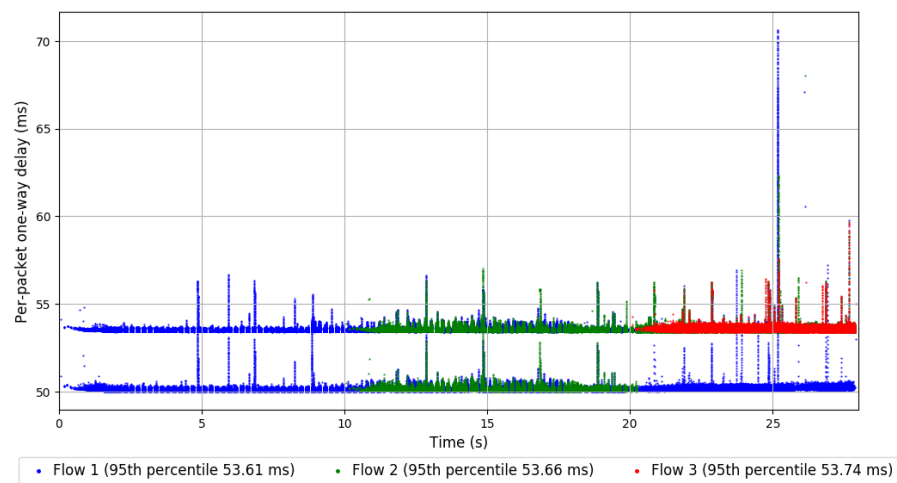
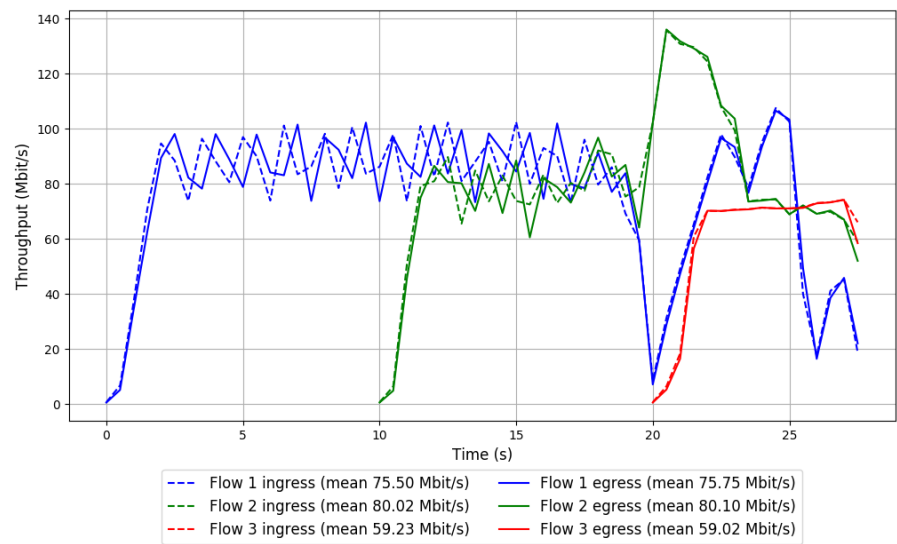
-- Flow 3:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 1.67%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-09 22:16:05

End at: 2018-01-09 22:16:35

Below is generated by plot.py at 2018-01-10 01:40:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.57 Mbit/s

95th percentile per-packet one-way delay: 53.656 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 53.630 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 80.33 Mbit/s

95th percentile per-packet one-way delay: 53.677 ms

Loss rate: 0.51%

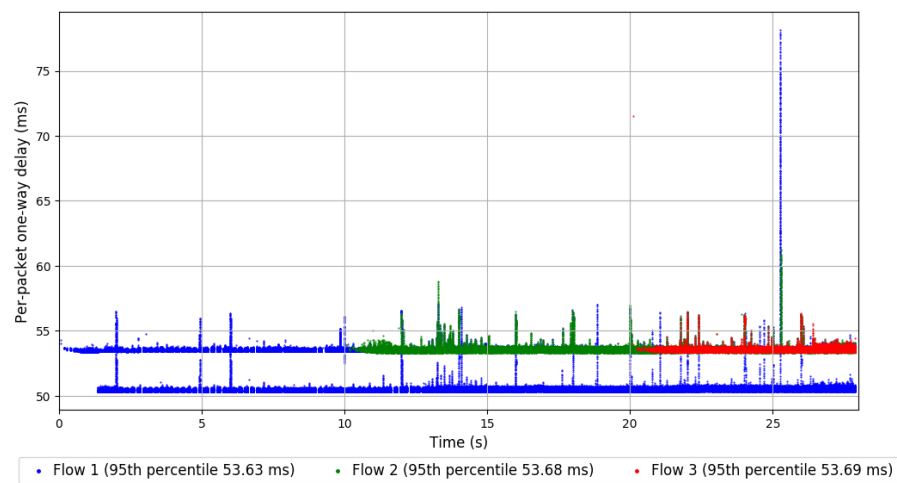
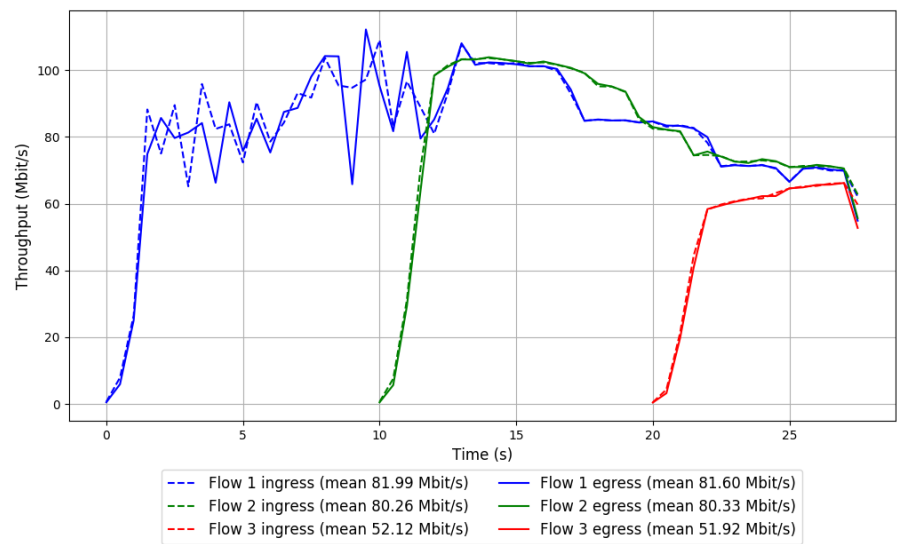
-- Flow 3:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 1.72%

Run 10: Report of Copa — Data Link

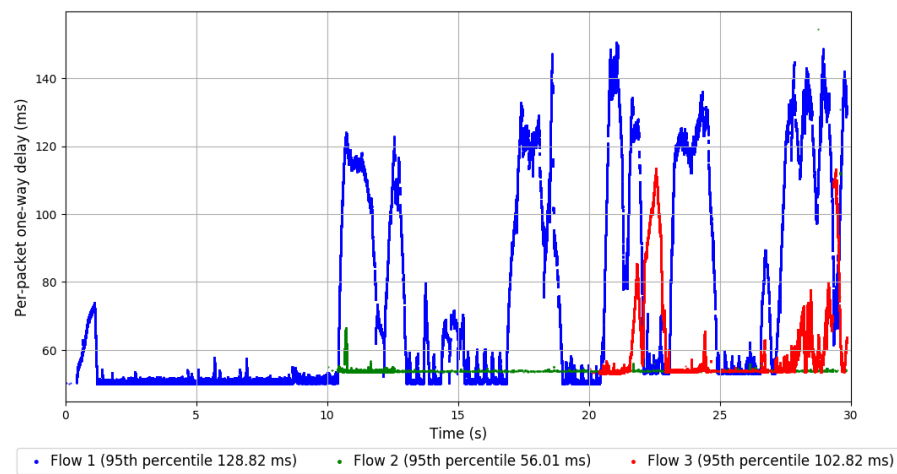
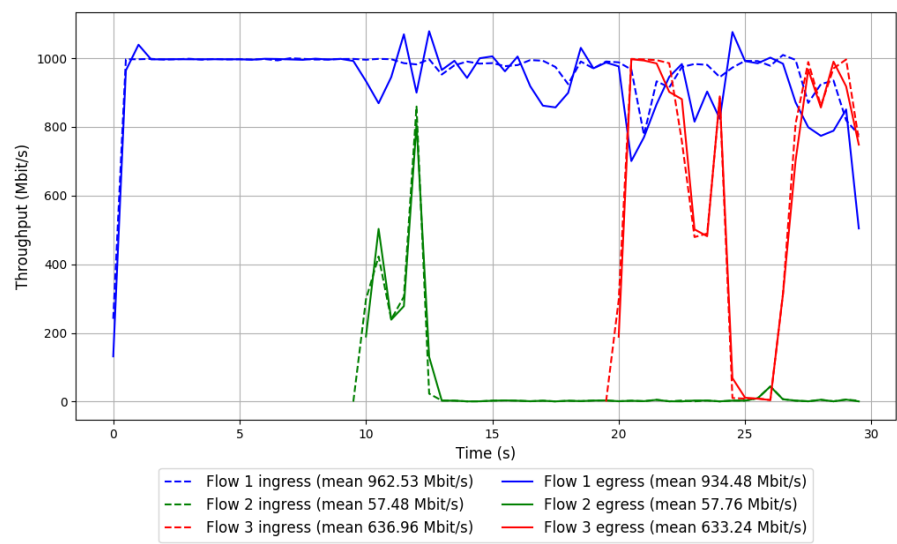


```
Run 1: Statistics of FillP

Start at: 2018-01-09 20:14:38
End at: 2018-01-09 20:15:08

# Below is generated by plot.py at 2018-01-10 01:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1181.05 Mbit/s
95th percentile per-packet one-way delay: 125.621 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 934.48 Mbit/s
95th percentile per-packet one-way delay: 128.822 ms
Loss rate: 3.25%
-- Flow 2:
Average throughput: 57.76 Mbit/s
95th percentile per-packet one-way delay: 56.006 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 633.24 Mbit/s
95th percentile per-packet one-way delay: 102.822 ms
Loss rate: 1.67%
```


Run 1: Report of FillP — Data Link

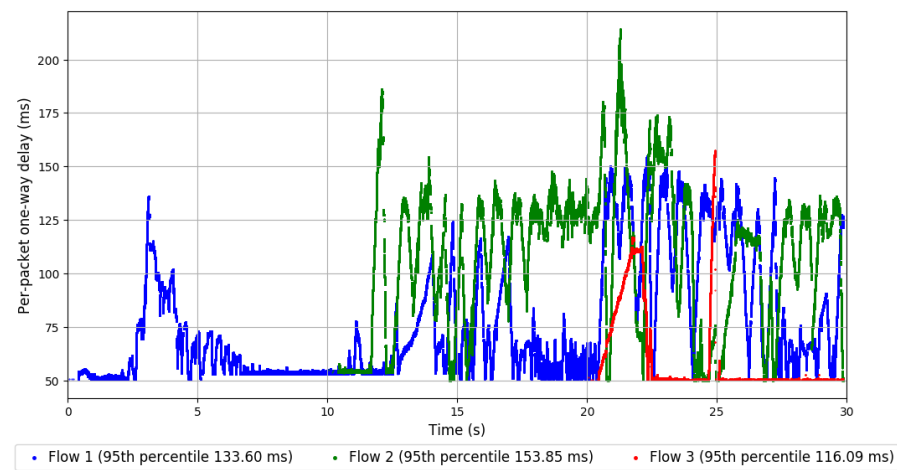
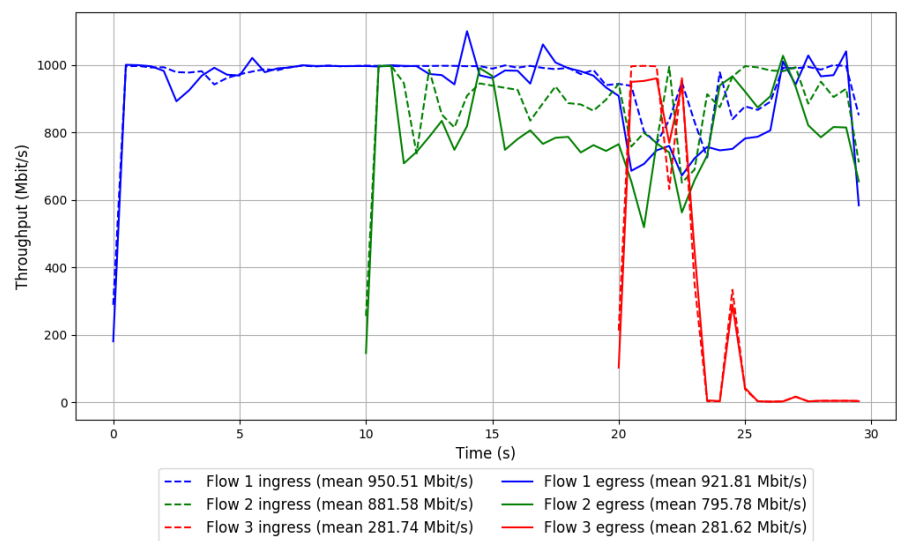


```
Run 2: Statistics of FillP

Start at: 2018-01-09 20:28:04
End at: 2018-01-09 20:28:34

# Below is generated by plot.py at 2018-01-10 02:04:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1543.02 Mbit/s
95th percentile per-packet one-way delay: 138.337 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 921.81 Mbit/s
95th percentile per-packet one-way delay: 133.603 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 795.78 Mbit/s
95th percentile per-packet one-way delay: 153.849 ms
Loss rate: 10.23%
-- Flow 3:
Average throughput: 281.62 Mbit/s
95th percentile per-packet one-way delay: 116.090 ms
Loss rate: 1.12%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 20:41:57

End at: 2018-01-09 20:42:27

Below is generated by plot.py at 2018-01-10 02:04:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 1190.27 Mbit/s

95th percentile per-packet one-way delay: 134.194 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 540.91 Mbit/s

95th percentile per-packet one-way delay: 132.687 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 603.62 Mbit/s

95th percentile per-packet one-way delay: 152.172 ms

Loss rate: 4.25%

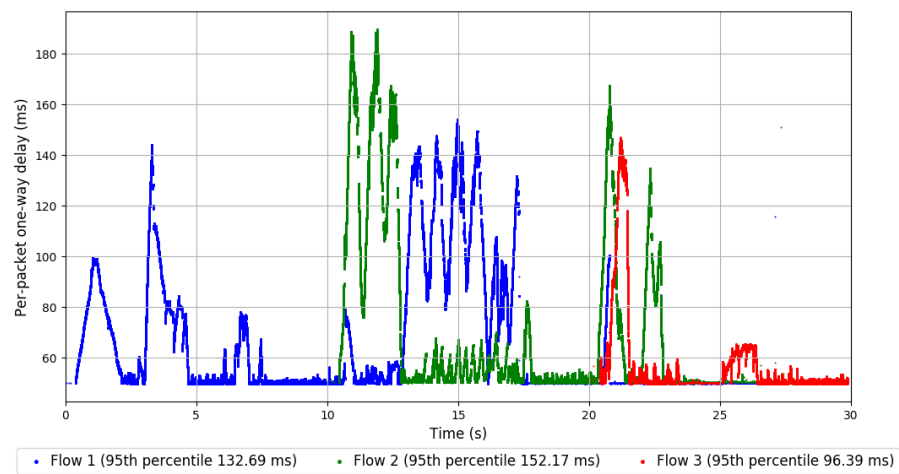
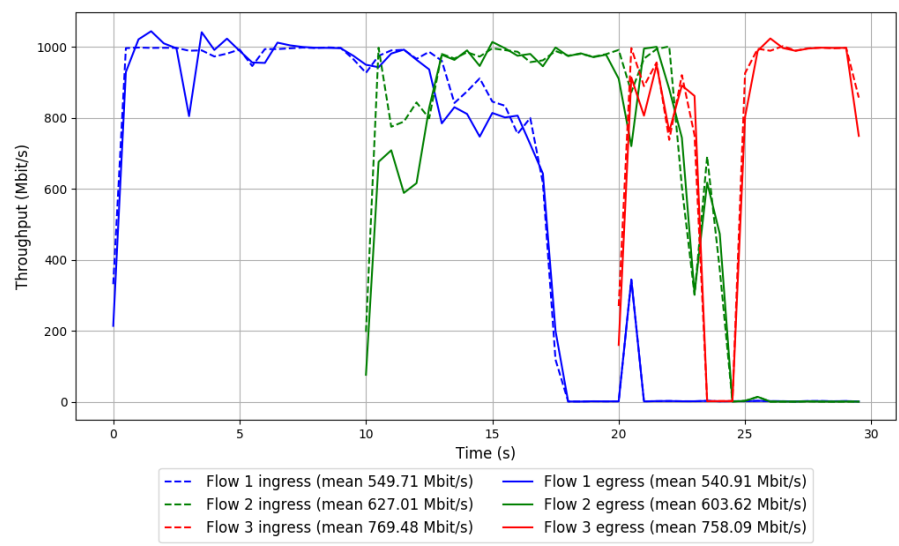
-- Flow 3:

Average throughput: 758.09 Mbit/s

95th percentile per-packet one-way delay: 96.391 ms

Loss rate: 2.52%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-09 20:55:45

End at: 2018-01-09 20:56:15

Below is generated by plot.py at 2018-01-10 02:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1144.92 Mbit/s

95th percentile per-packet one-way delay: 127.405 ms

Loss rate: 3.87%

-- Flow 1:

Average throughput: 569.33 Mbit/s

95th percentile per-packet one-way delay: 126.136 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 639.44 Mbit/s

95th percentile per-packet one-way delay: 129.632 ms

Loss rate: 3.77%

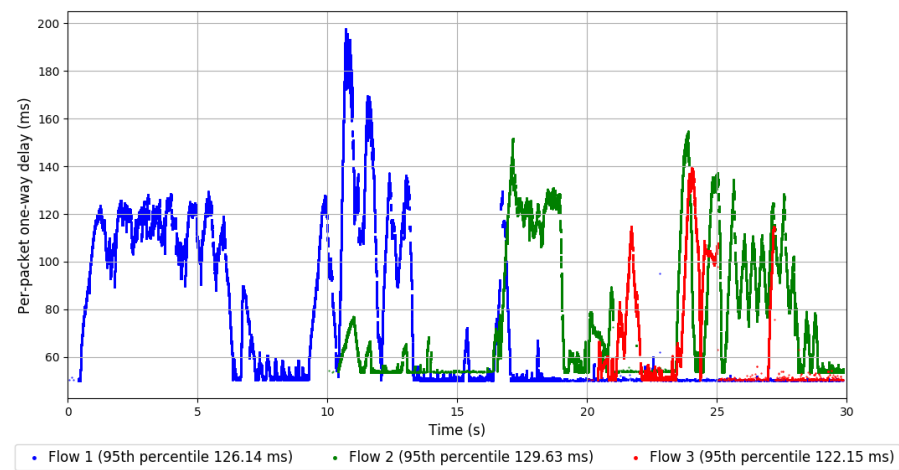
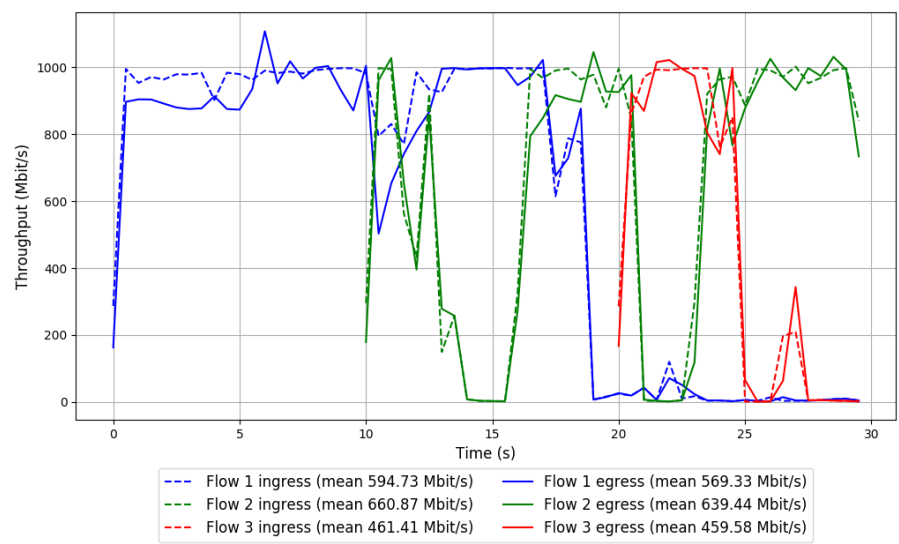
-- Flow 3:

Average throughput: 459.58 Mbit/s

95th percentile per-packet one-way delay: 122.147 ms

Loss rate: 1.47%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 21:09:15

End at: 2018-01-09 21:09:45

Below is generated by plot.py at 2018-01-10 02:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1767.17 Mbit/s

95th percentile per-packet one-way delay: 138.822 ms

Loss rate: 5.55%

-- Flow 1:

Average throughput: 922.23 Mbit/s

95th percentile per-packet one-way delay: 130.563 ms

Loss rate: 3.93%

-- Flow 2:

Average throughput: 857.31 Mbit/s

95th percentile per-packet one-way delay: 175.996 ms

Loss rate: 7.13%

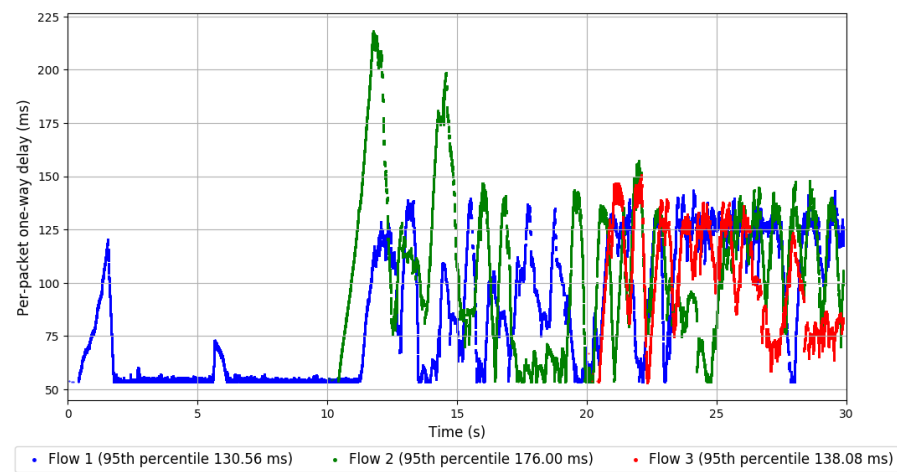
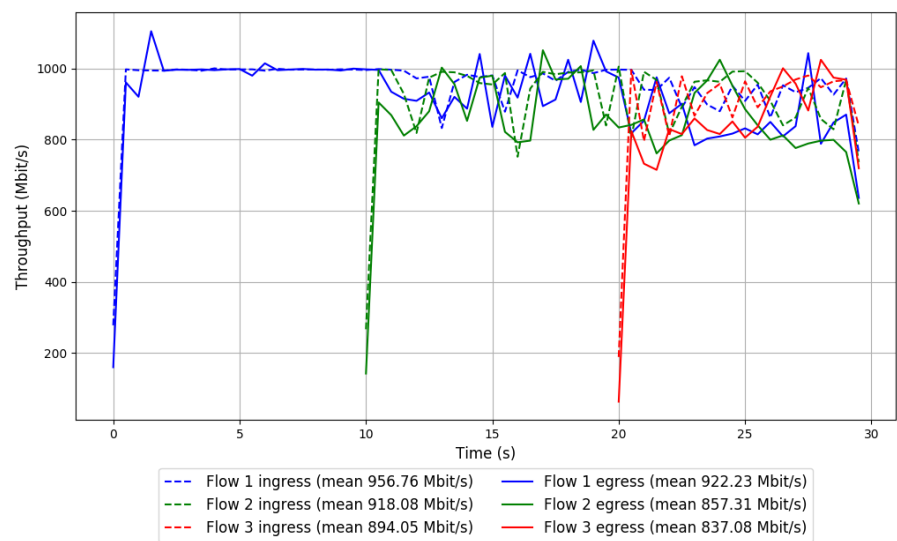
-- Flow 3:

Average throughput: 837.08 Mbit/s

95th percentile per-packet one-way delay: 138.083 ms

Loss rate: 7.50%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 21:23:18

End at: 2018-01-09 21:23:48

Below is generated by plot.py at 2018-01-10 02:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1602.44 Mbit/s

95th percentile per-packet one-way delay: 150.556 ms

Loss rate: 5.72%

-- Flow 1:

Average throughput: 887.36 Mbit/s

95th percentile per-packet one-way delay: 148.507 ms

Loss rate: 4.98%

-- Flow 2:

Average throughput: 866.31 Mbit/s

95th percentile per-packet one-way delay: 156.829 ms

Loss rate: 5.79%

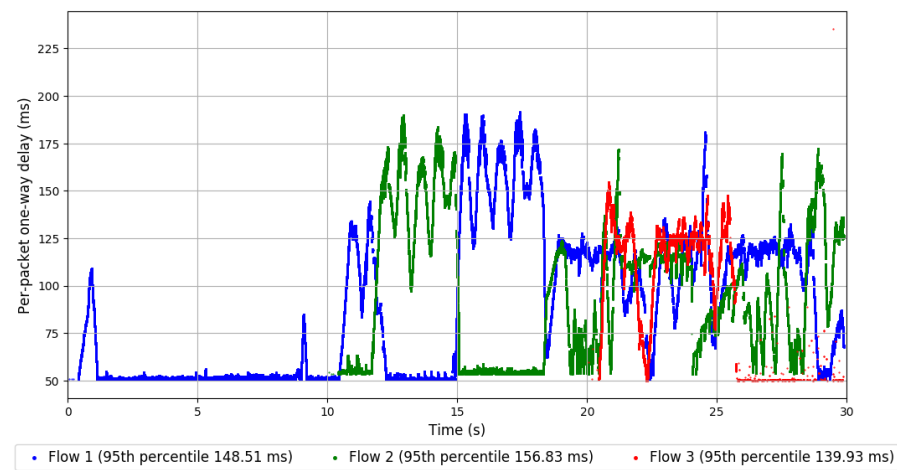
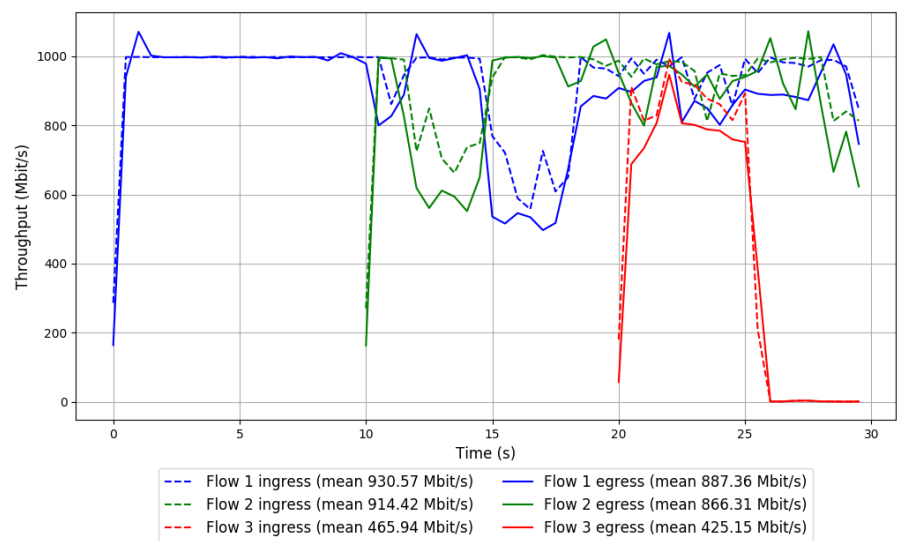
-- Flow 3:

Average throughput: 425.15 Mbit/s

95th percentile per-packet one-way delay: 139.930 ms

Loss rate: 9.89%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 21:36:53

End at: 2018-01-09 21:37:23

Below is generated by plot.py at 2018-01-10 02:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1695.11 Mbit/s

95th percentile per-packet one-way delay: 136.028 ms

Loss rate: 4.18%

-- Flow 1:

Average throughput: 925.82 Mbit/s

95th percentile per-packet one-way delay: 131.972 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 843.25 Mbit/s

95th percentile per-packet one-way delay: 136.983 ms

Loss rate: 5.85%

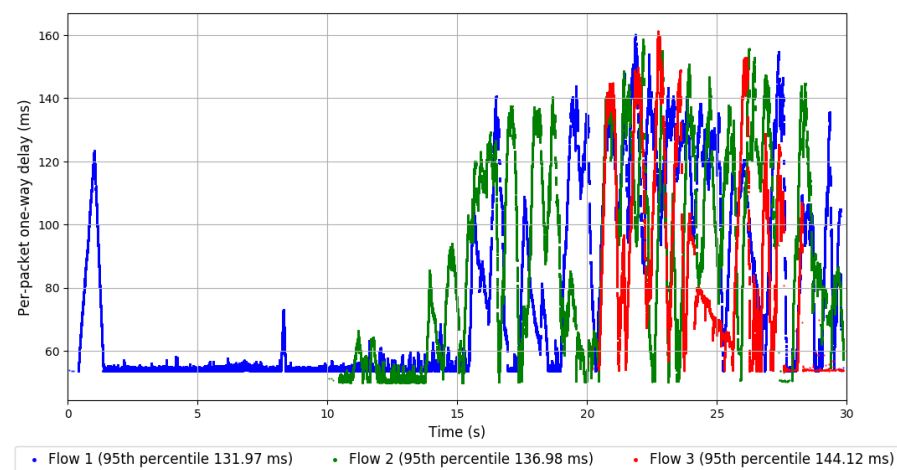
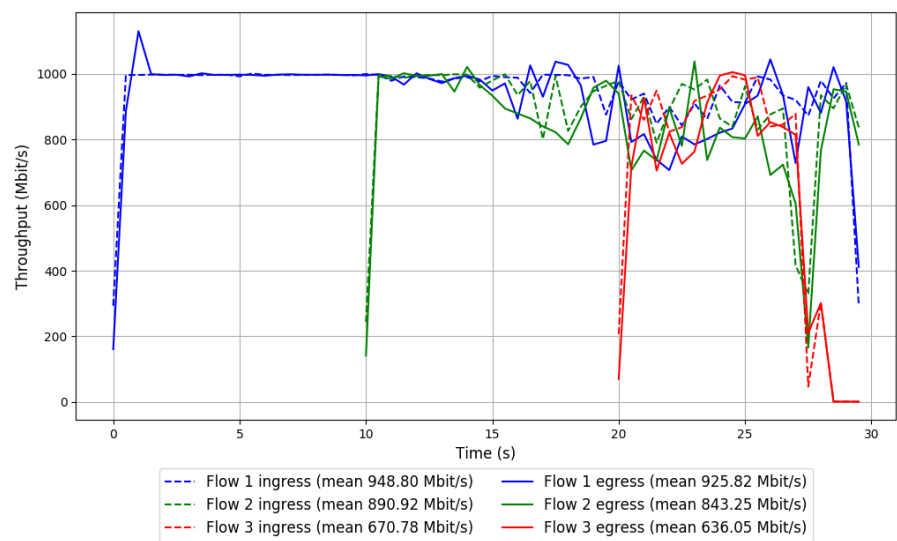
-- Flow 3:

Average throughput: 636.05 Mbit/s

95th percentile per-packet one-way delay: 144.115 ms

Loss rate: 6.24%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-09 21:50:41

End at: 2018-01-09 21:51:11

Below is generated by plot.py at 2018-01-10 02:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 1741.48 Mbit/s

95th percentile per-packet one-way delay: 132.666 ms

Loss rate: 5.06%

-- Flow 1:

Average throughput: 914.38 Mbit/s

95th percentile per-packet one-way delay: 131.783 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 872.88 Mbit/s

95th percentile per-packet one-way delay: 140.673 ms

Loss rate: 7.20%

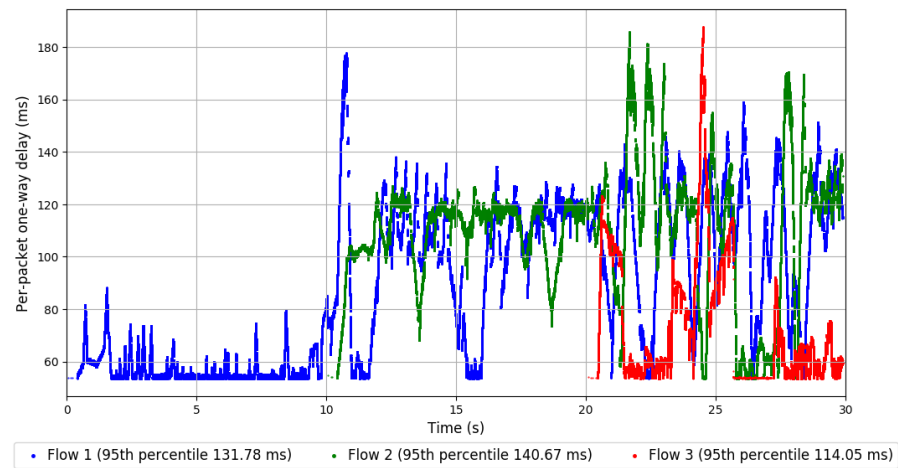
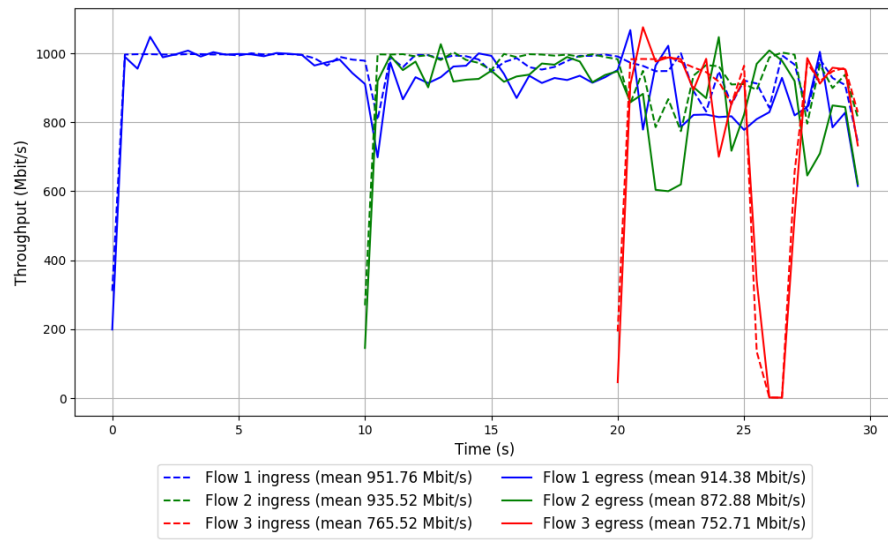
-- Flow 3:

Average throughput: 752.71 Mbit/s

95th percentile per-packet one-way delay: 114.047 ms

Loss rate: 2.75%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-09 22:04:36

End at: 2018-01-09 22:05:06

Below is generated by plot.py at 2018-01-10 02:18:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 1643.89 Mbit/s

95th percentile per-packet one-way delay: 250.458 ms

Loss rate: 8.00%

-- Flow 1:

Average throughput: 844.19 Mbit/s

95th percentile per-packet one-way delay: 244.873 ms

Loss rate: 7.62%

-- Flow 2:

Average throughput: 877.61 Mbit/s

95th percentile per-packet one-way delay: 141.979 ms

Loss rate: 5.32%

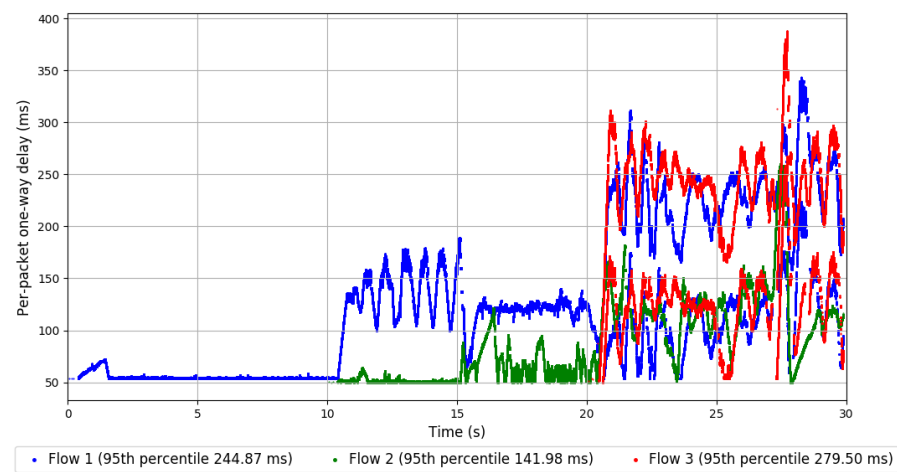
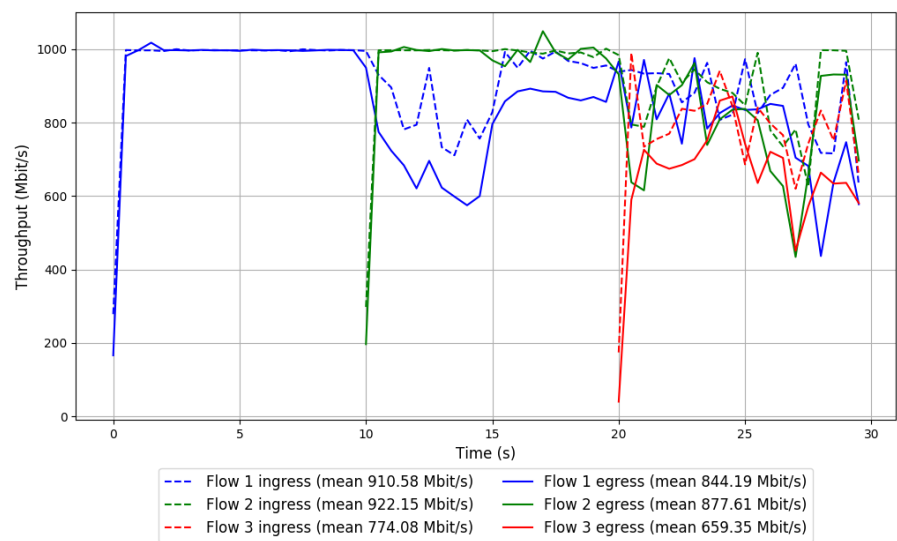
-- Flow 3:

Average throughput: 659.35 Mbit/s

95th percentile per-packet one-way delay: 279.500 ms

Loss rate: 15.72%

Run 9: Report of FillP — Data Link

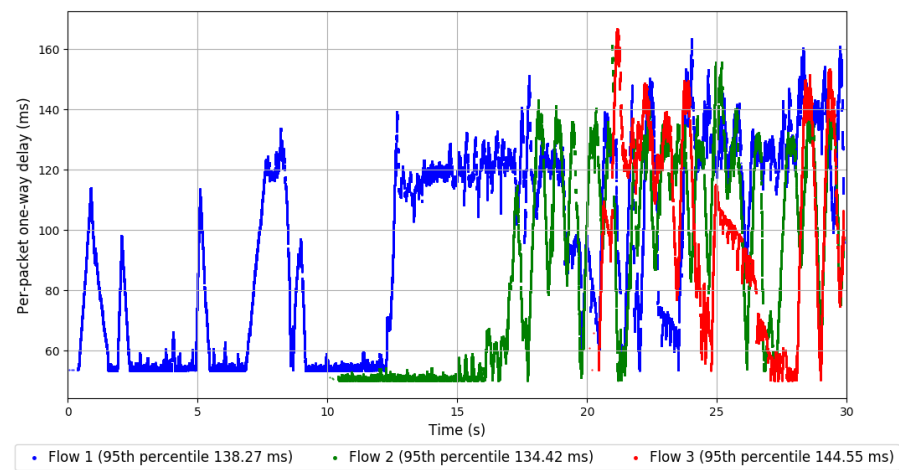
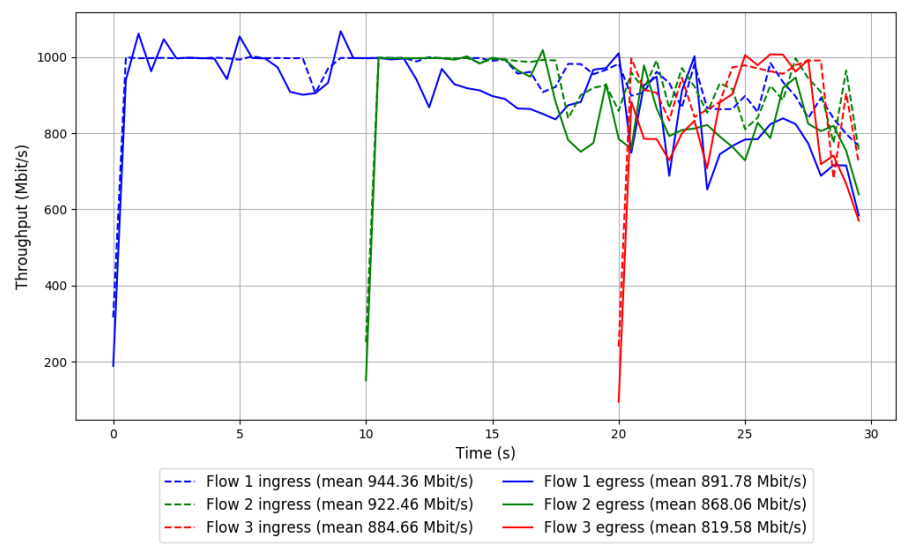


```
Run 10: Statistics of FillP

Start at: 2018-01-09 22:18:25
End at: 2018-01-09 22:18:55

# Below is generated by plot.py at 2018-01-10 02:18:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1737.04 Mbit/s
95th percentile per-packet one-way delay: 138.426 ms
Loss rate: 6.48%
-- Flow 1:
Average throughput: 891.78 Mbit/s
95th percentile per-packet one-way delay: 138.271 ms
Loss rate: 5.91%
-- Flow 2:
Average throughput: 868.06 Mbit/s
95th percentile per-packet one-way delay: 134.424 ms
Loss rate: 6.41%
-- Flow 3:
Average throughput: 819.58 Mbit/s
95th percentile per-packet one-way delay: 144.553 ms
Loss rate: 8.44%
```

Run 10: Report of FillP — Data Link

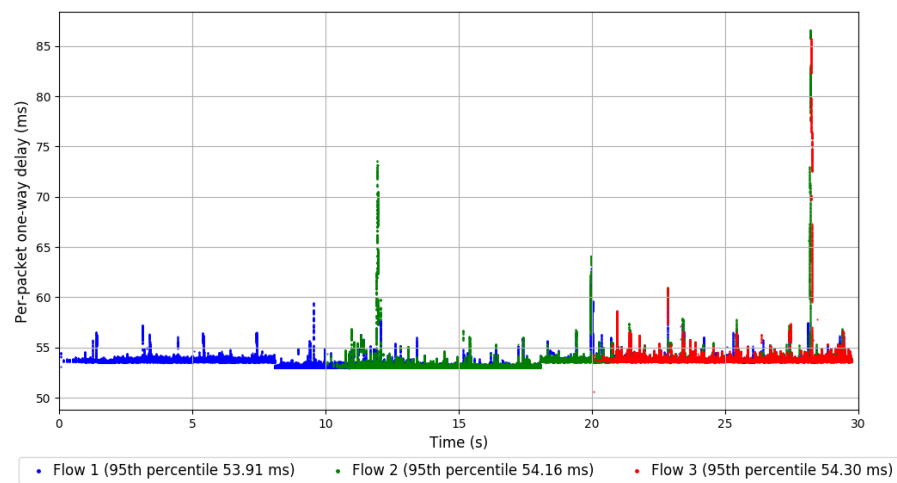
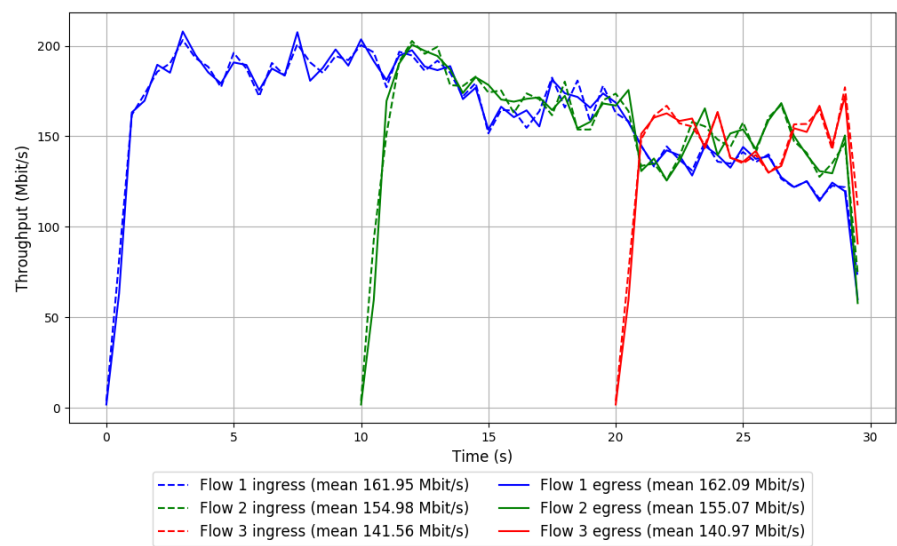


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 20:08:11
End at: 2018-01-09 20:08:41

# Below is generated by plot.py at 2018-01-10 02:18:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.67 Mbit/s
95th percentile per-packet one-way delay: 54.049 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 162.09 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 155.07 Mbit/s
95th percentile per-packet one-way delay: 54.157 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 140.97 Mbit/s
95th percentile per-packet one-way delay: 54.296 ms
Loss rate: 1.51%
```

Run 1: Report of Indigo — Data Link

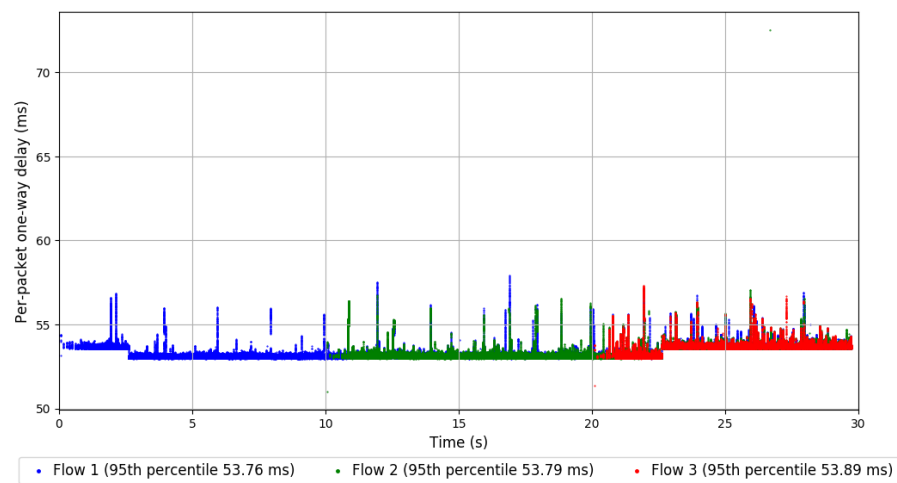
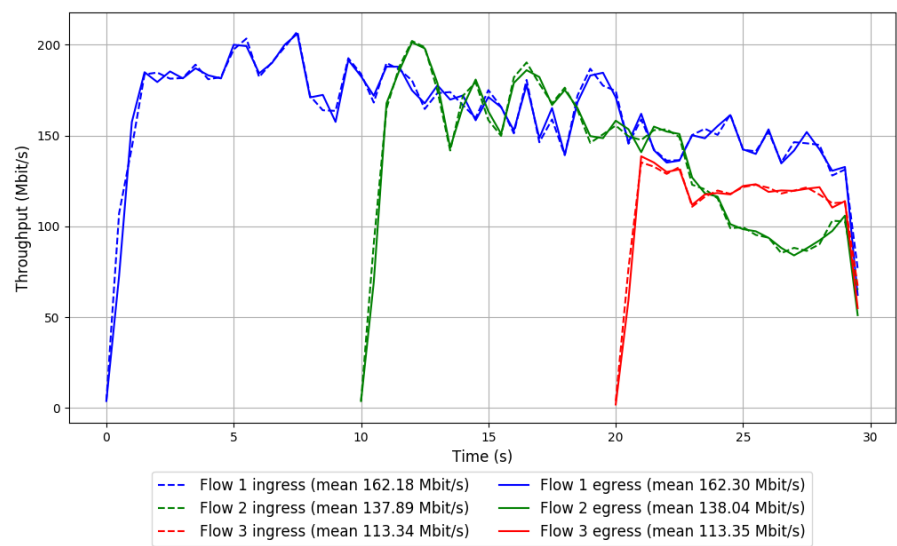


```
Run 2: Statistics of Indigo

Start at: 2018-01-09 20:21:47
End at: 2018-01-09 20:22:17

# Below is generated by plot.py at 2018-01-10 02:18:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.61 Mbit/s
95th percentile per-packet one-way delay: 53.785 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 162.30 Mbit/s
95th percentile per-packet one-way delay: 53.757 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 138.04 Mbit/s
95th percentile per-packet one-way delay: 53.791 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 113.35 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 1.07%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 20:35:31

End at: 2018-01-09 20:36:01

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.06 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 168.25 Mbit/s

95th percentile per-packet one-way delay: 54.124 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 151.05 Mbit/s

95th percentile per-packet one-way delay: 54.582 ms

Loss rate: 0.41%

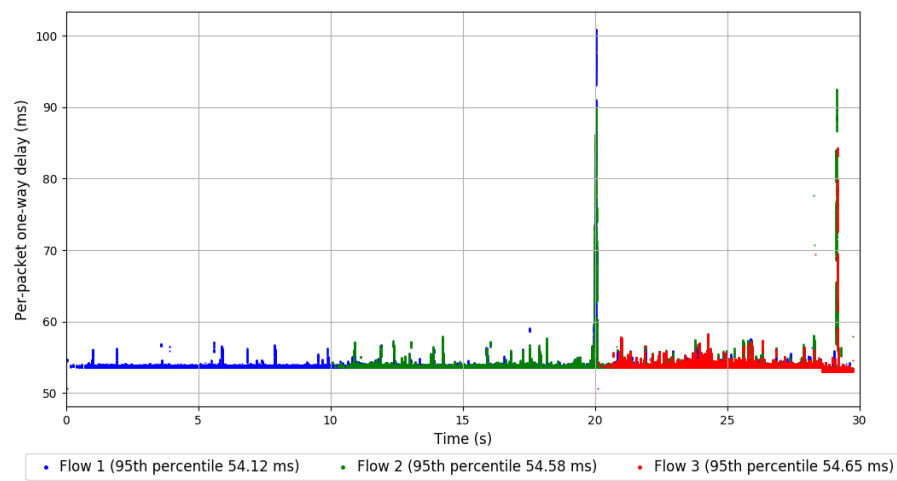
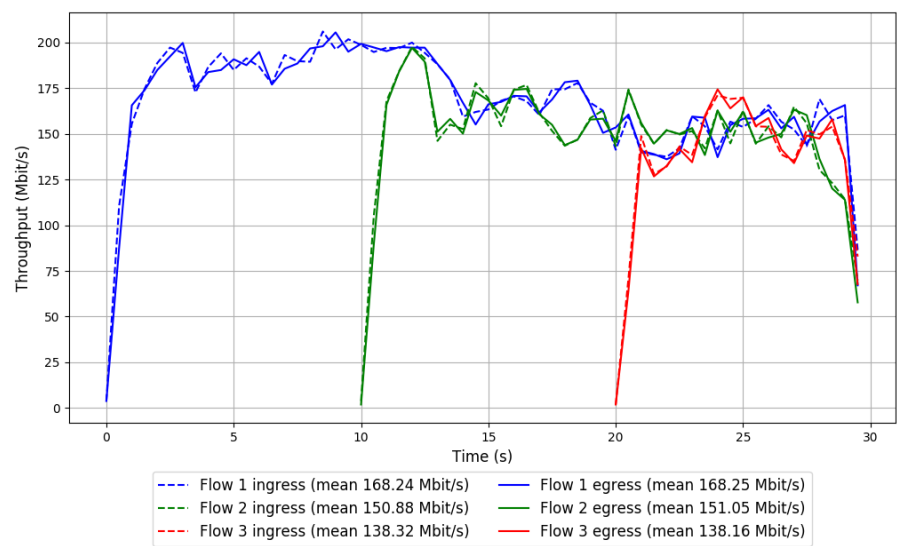
-- Flow 3:

Average throughput: 138.16 Mbit/s

95th percentile per-packet one-way delay: 54.650 ms

Loss rate: 1.14%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 20:49:21

End at: 2018-01-09 20:49:51

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.06 Mbit/s

95th percentile per-packet one-way delay: 53.776 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 168.40 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 154.71 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.34%

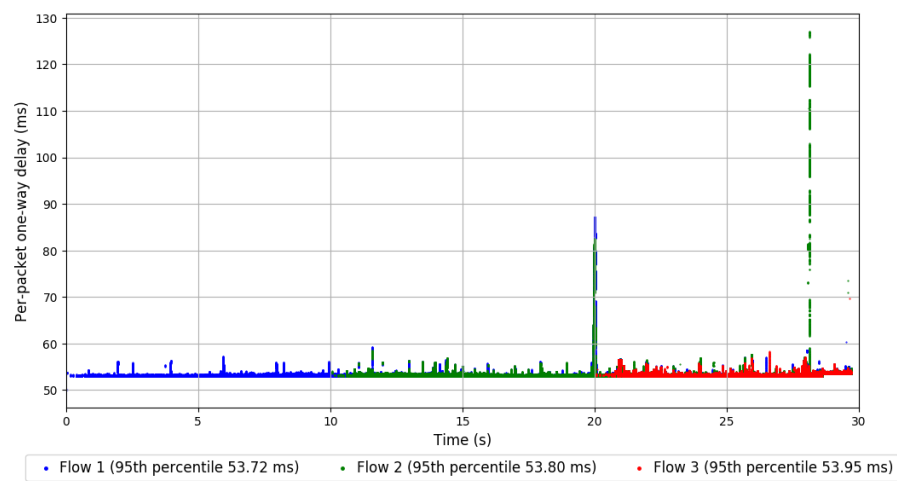
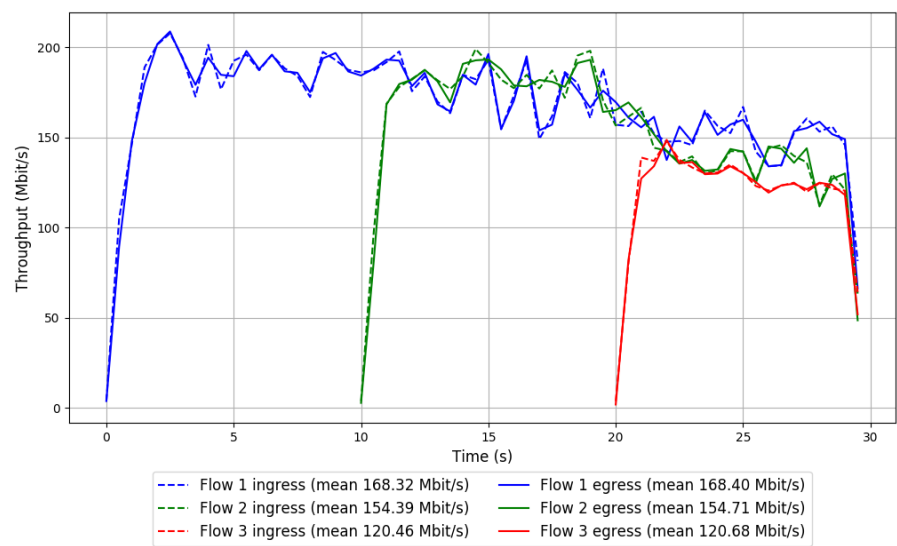
-- Flow 3:

Average throughput: 120.68 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 1.08%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 21:02:45

End at: 2018-01-09 21:03:15

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.35 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 53.714 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 152.55 Mbit/s

95th percentile per-packet one-way delay: 53.205 ms

Loss rate: 0.52%

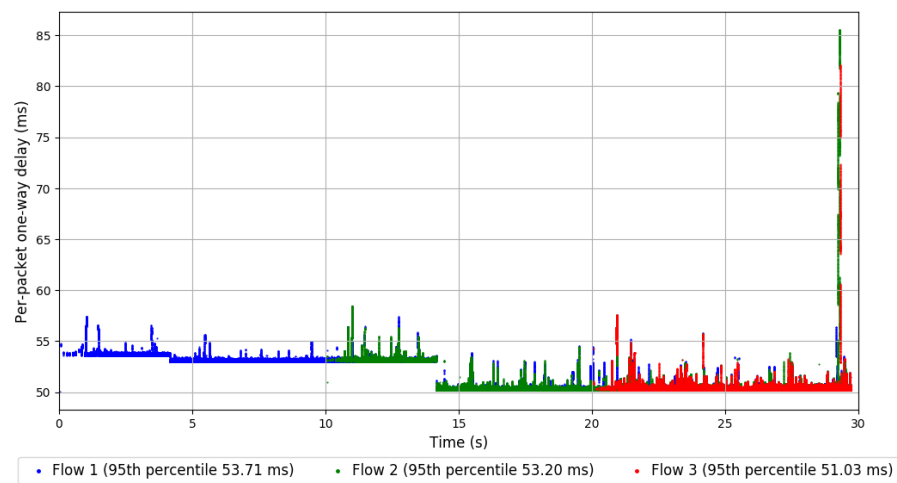
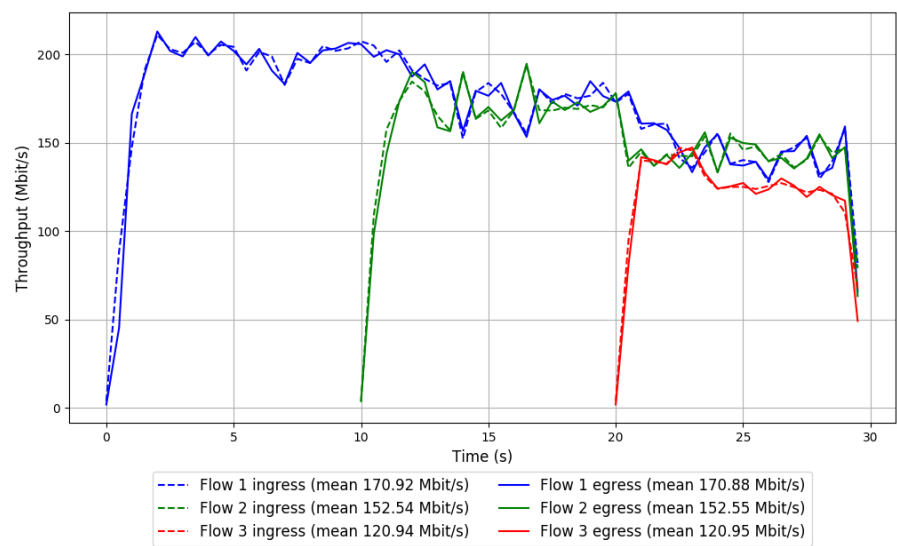
-- Flow 3:

Average throughput: 120.95 Mbit/s

95th percentile per-packet one-way delay: 51.035 ms

Loss rate: 1.04%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 21:16:56

End at: 2018-01-09 21:17:26

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.02 Mbit/s

95th percentile per-packet one-way delay: 53.899 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 149.22 Mbit/s

95th percentile per-packet one-way delay: 53.781 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 158.78 Mbit/s

95th percentile per-packet one-way delay: 54.102 ms

Loss rate: 0.50%

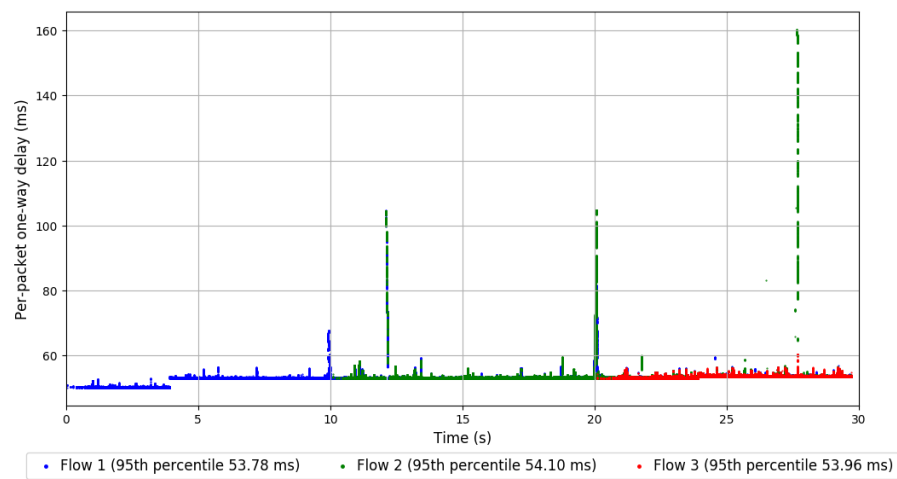
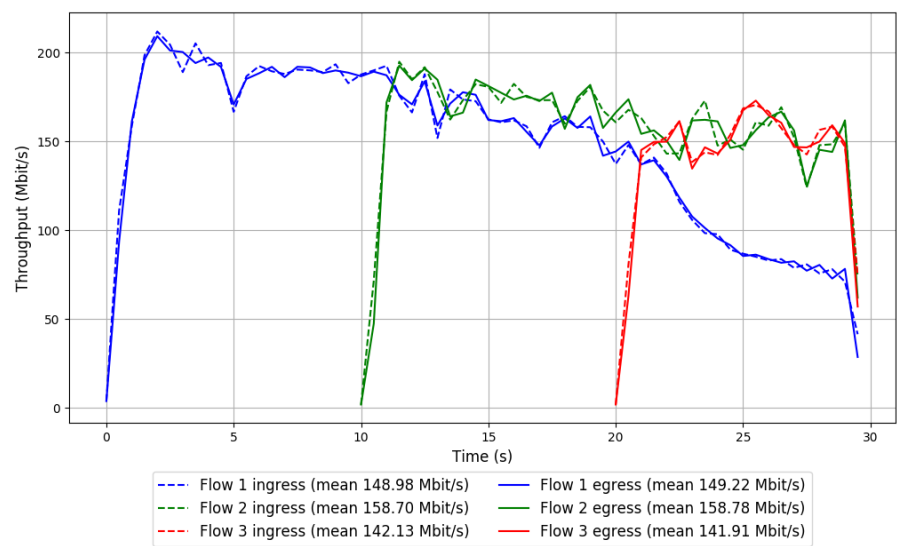
-- Flow 3:

Average throughput: 141.91 Mbit/s

95th percentile per-packet one-way delay: 53.960 ms

Loss rate: 1.23%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 21:30:25

End at: 2018-01-09 21:30:55

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.80 Mbit/s

95th percentile per-packet one-way delay: 54.123 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 178.20 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 160.98 Mbit/s

95th percentile per-packet one-way delay: 54.192 ms

Loss rate: 0.48%

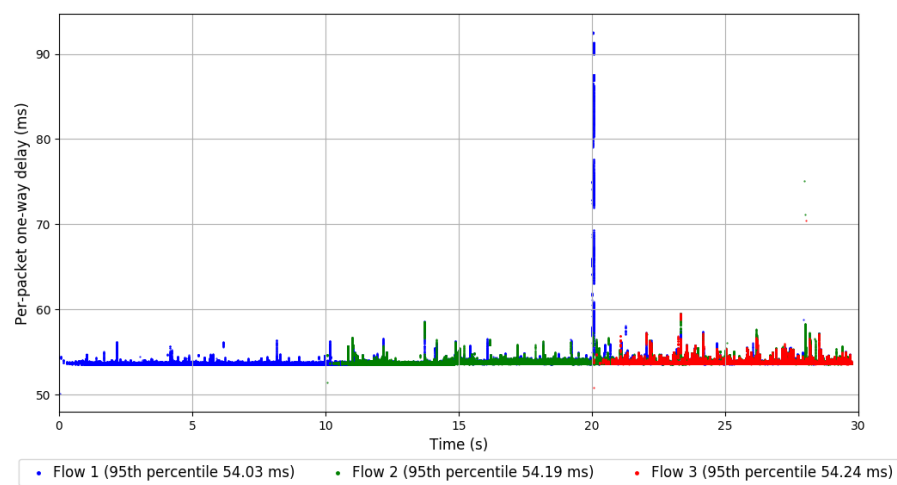
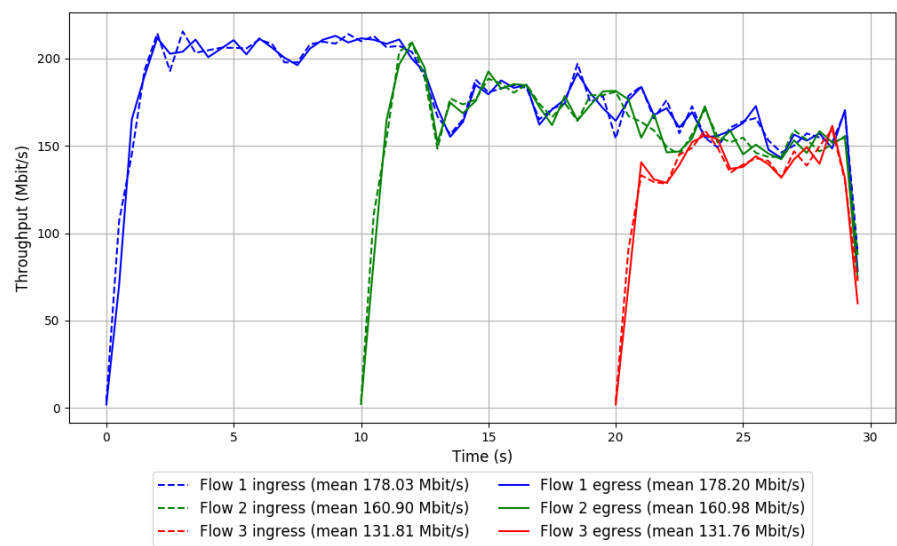
-- Flow 3:

Average throughput: 131.76 Mbit/s

95th percentile per-packet one-way delay: 54.244 ms

Loss rate: 1.07%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 21:44:13

End at: 2018-01-09 21:44:43

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.74 Mbit/s

95th percentile per-packet one-way delay: 54.025 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 174.39 Mbit/s

95th percentile per-packet one-way delay: 53.942 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 159.75 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.47%

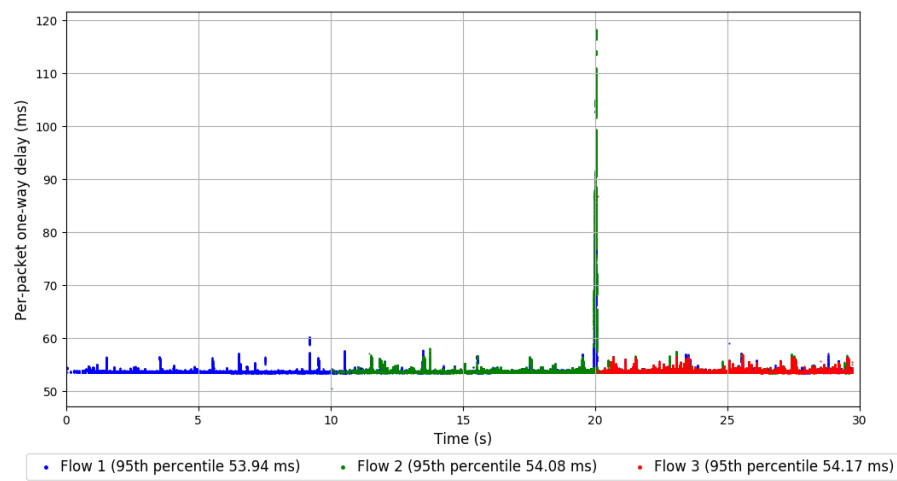
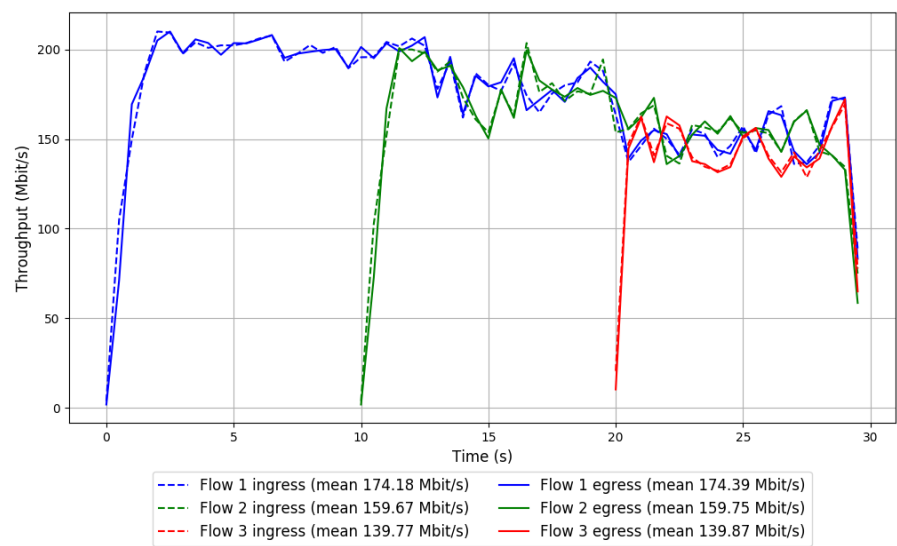
-- Flow 3:

Average throughput: 139.87 Mbit/s

95th percentile per-packet one-way delay: 54.168 ms

Loss rate: 1.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 21:58:11

End at: 2018-01-09 21:58:41

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.57 Mbit/s

95th percentile per-packet one-way delay: 54.148 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 177.92 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 170.09 Mbit/s

95th percentile per-packet one-way delay: 54.278 ms

Loss rate: 0.80%

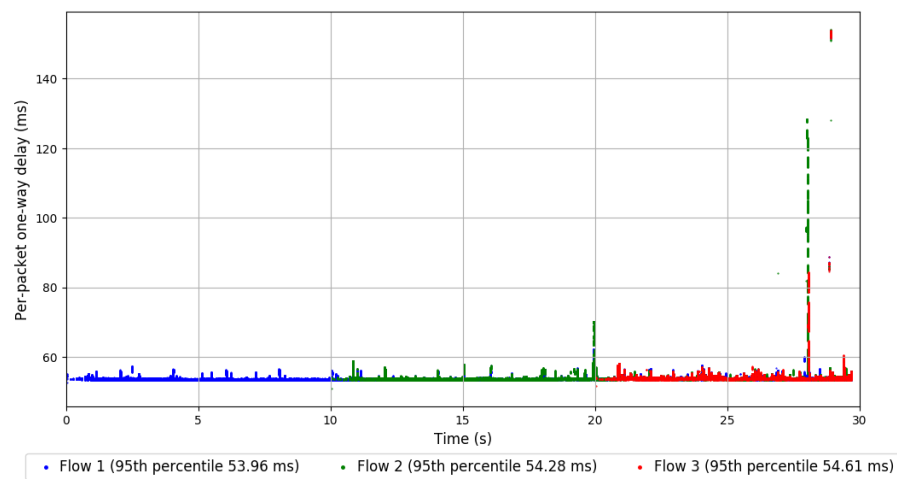
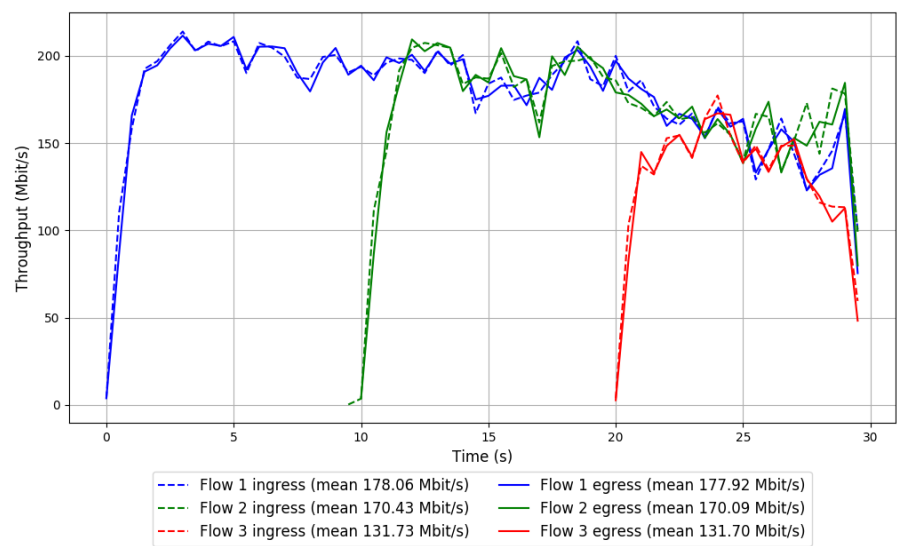
-- Flow 3:

Average throughput: 131.70 Mbit/s

95th percentile per-packet one-way delay: 54.610 ms

Loss rate: 1.19%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 22:11:54

End at: 2018-01-09 22:12:24

Below is generated by plot.py at 2018-01-10 02:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.32 Mbit/s

95th percentile per-packet one-way delay: 53.855 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 171.62 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 151.51 Mbit/s

95th percentile per-packet one-way delay: 53.915 ms

Loss rate: 0.55%

-- Flow 3:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 53.985 ms

Loss rate: 1.17%

Run 10: Report of Indigo — Data Link

