

Pantheon Report

Generated at 2017-11-22 00:31:21 (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.

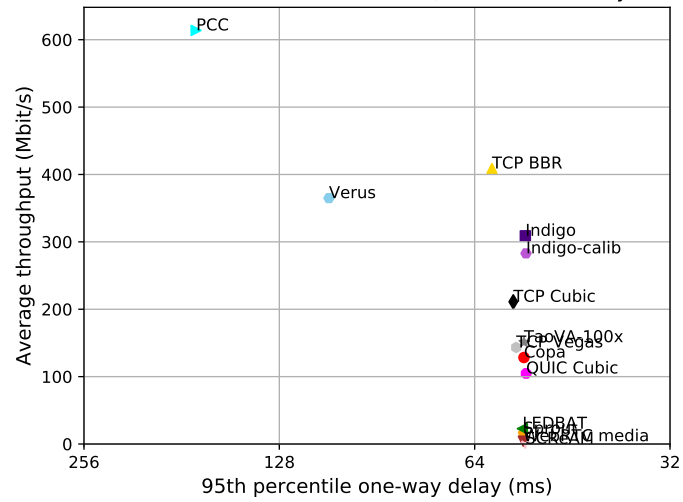
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

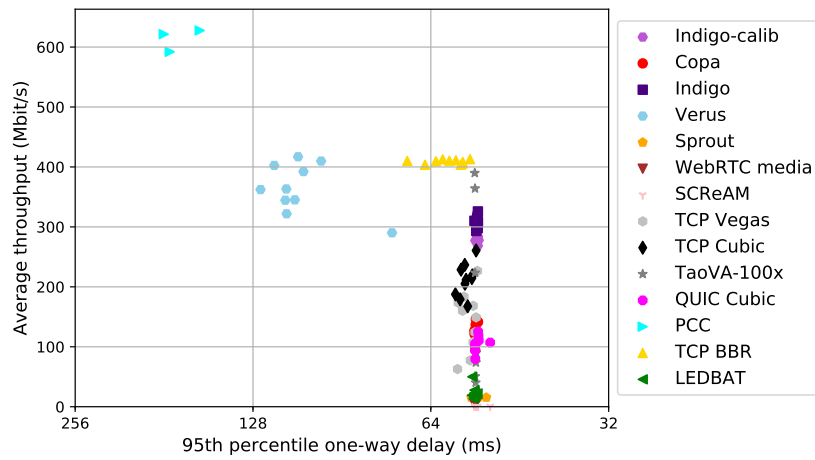
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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



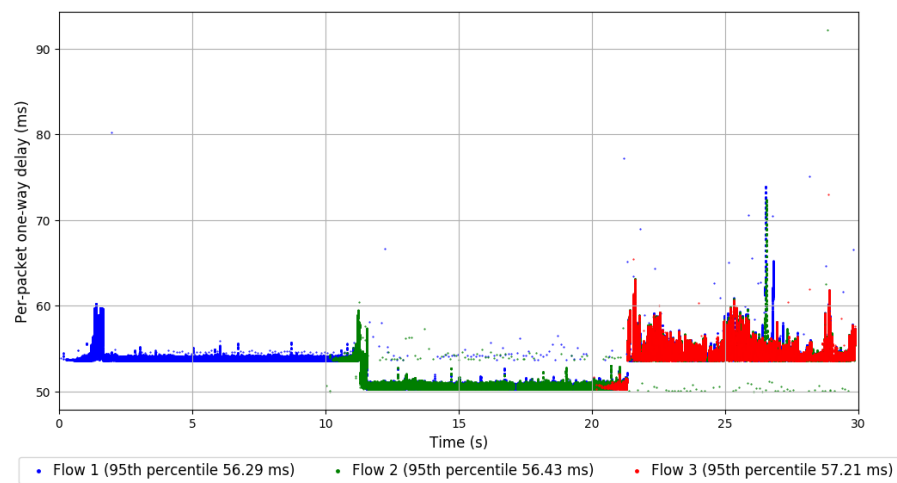
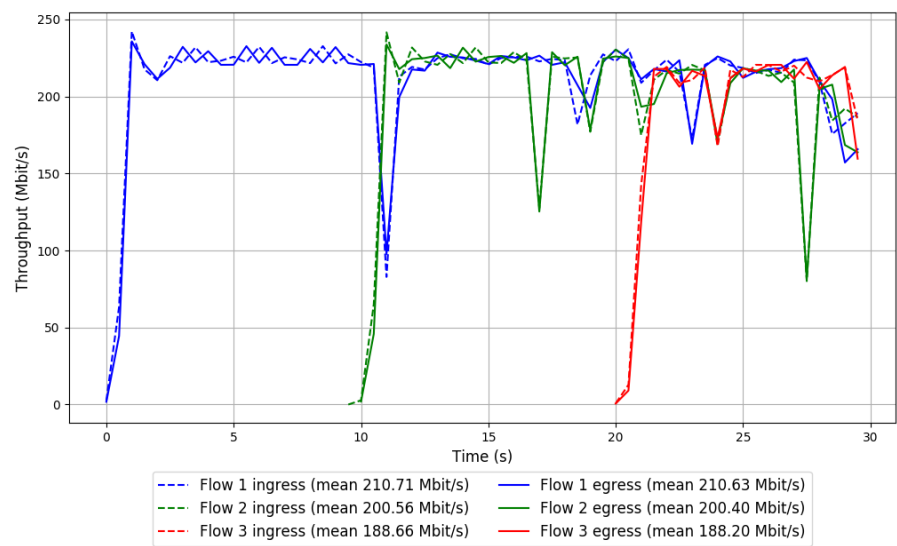
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	209.28	204.41	193.66	59.13	60.18	61.80	0.36	0.59	1.16
TCP Cubic	10	109.10	116.53	74.62	56.02	56.12	54.31	0.33	0.55	1.82
LEDBAT	10	11.84	12.76	7.47	54.00	53.91	53.47	0.86	0.88	2.17
PCC	3	593.66	5.11	50.26	171.85	171.54	173.48	2.63	2.76	4.48
QUIC Cubic	10	51.85	56.45	47.24	52.70	52.45	52.49	0.42	0.52	1.16
SCReAM	10	0.21	0.21	0.22	52.53	53.27	51.86	0.25	0.53	1.11
WebRTC media	9	2.24	1.39	0.58	53.38	53.50	53.09	0.41	0.70	1.44
Sprout	10	7.85	7.70	7.39	53.84	53.93	53.83	0.39	0.56	0.99
TaoVA-100x	9	65.10	98.95	82.06	53.77	53.86	53.03	0.25	0.46	1.28
TCP Vegas	10	73.81	64.78	80.41	54.94	55.29	55.14	0.27	0.54	1.00
Verus	10	224.70	153.92	122.47	105.35	128.96	102.06	0.72	1.18	1.31
Copa	10	68.50	71.54	61.74	53.63	53.68	52.90	0.28	0.56	1.72
Indigo	10	166.66	153.72	124.55	53.40	53.57	53.36	0.27	0.46	1.14
Indigo-calib	10	150.05	136.21	131.10	53.33	53.14	52.58	0.26	0.44	0.99

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-21 19:29:38
End at: 2017-11-21 19:30:08

# Below is generated by plot.py at 2017-11-21 23:41:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.77 Mbit/s
95th percentile per-packet one-way delay: 56.532 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 210.63 Mbit/s
95th percentile per-packet one-way delay: 56.293 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 200.40 Mbit/s
95th percentile per-packet one-way delay: 56.432 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 188.20 Mbit/s
95th percentile per-packet one-way delay: 57.207 ms
Loss rate: 1.30%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 19:41:50

End at: 2017-11-21 19:42:20

Below is generated by plot.py at 2017-11-21 23:42:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.43 Mbit/s

95th percentile per-packet one-way delay: 59.541 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 207.41 Mbit/s

95th percentile per-packet one-way delay: 58.687 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 207.90 Mbit/s

95th percentile per-packet one-way delay: 59.946 ms

Loss rate: 0.63%

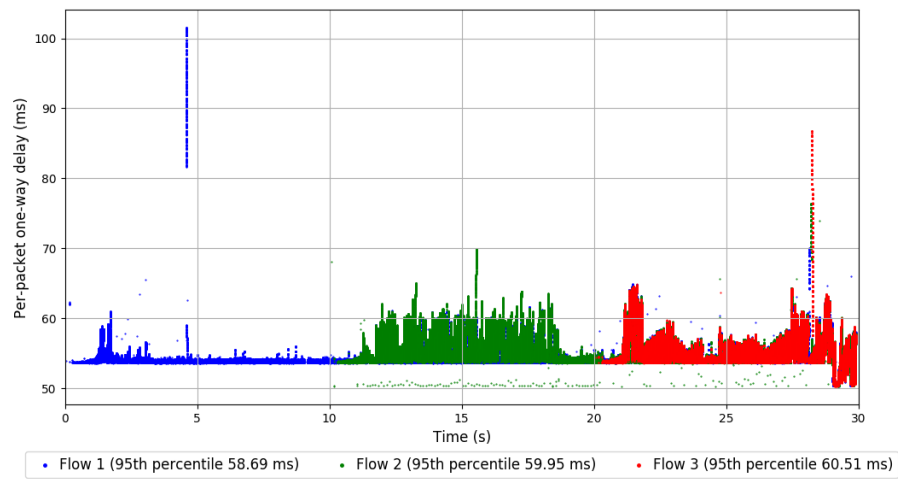
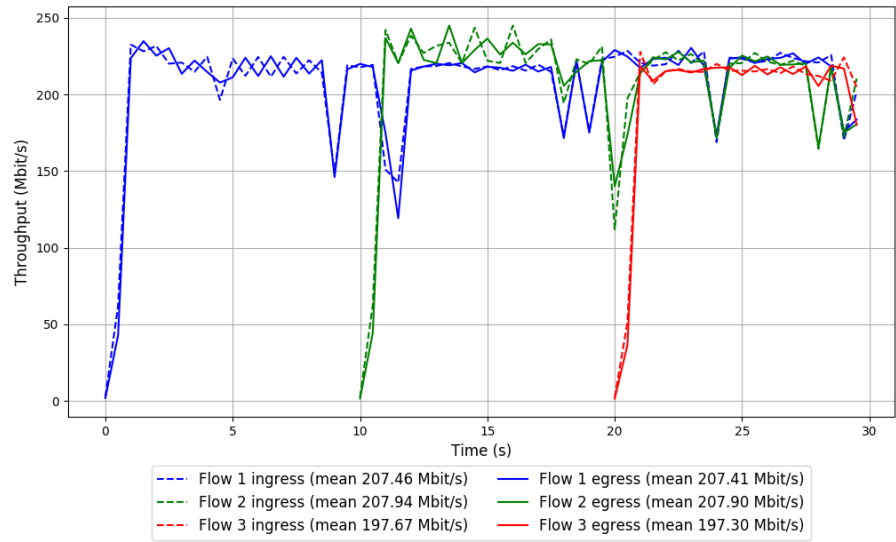
-- Flow 3:

Average throughput: 197.30 Mbit/s

95th percentile per-packet one-way delay: 60.510 ms

Loss rate: 1.27%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 19:53:33

End at: 2017-11-21 19:54:03

Below is generated by plot.py at 2017-11-21 23:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.98 Mbit/s

95th percentile per-packet one-way delay: 54.938 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 208.58 Mbit/s

95th percentile per-packet one-way delay: 54.145 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 209.30 Mbit/s

95th percentile per-packet one-way delay: 55.323 ms

Loss rate: 0.59%

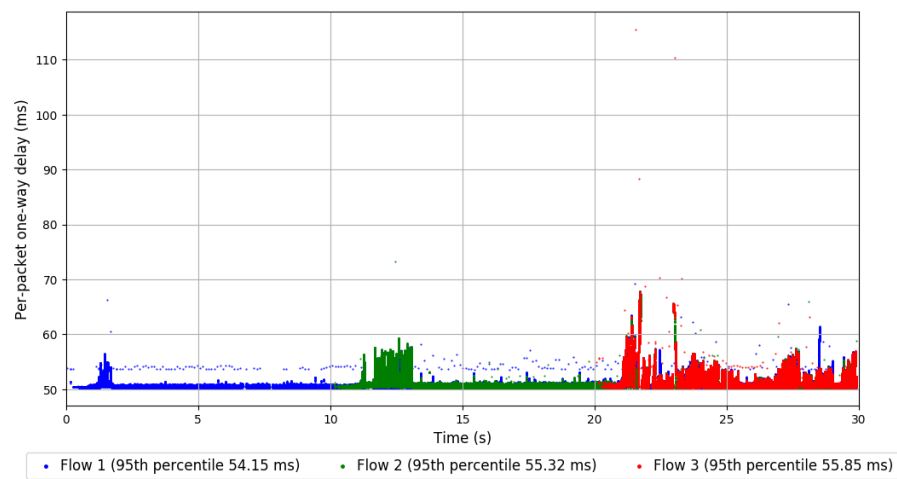
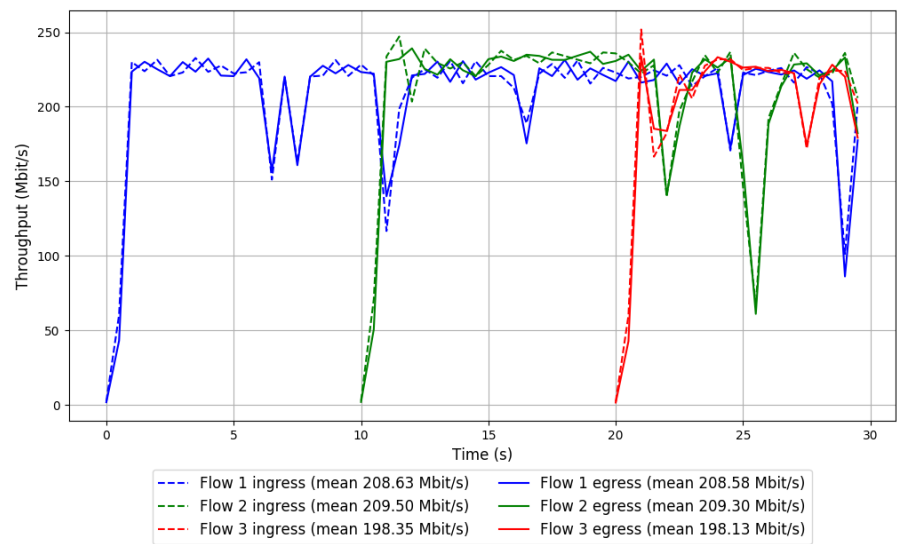
-- Flow 3:

Average throughput: 198.13 Mbit/s

95th percentile per-packet one-way delay: 55.851 ms

Loss rate: 1.20%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 20:05:09

End at: 2017-11-21 20:05:39

Below is generated by plot.py at 2017-11-21 23:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.84 Mbit/s

95th percentile per-packet one-way delay: 61.110 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 208.05 Mbit/s

95th percentile per-packet one-way delay: 59.485 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 207.35 Mbit/s

95th percentile per-packet one-way delay: 61.112 ms

Loss rate: 0.58%

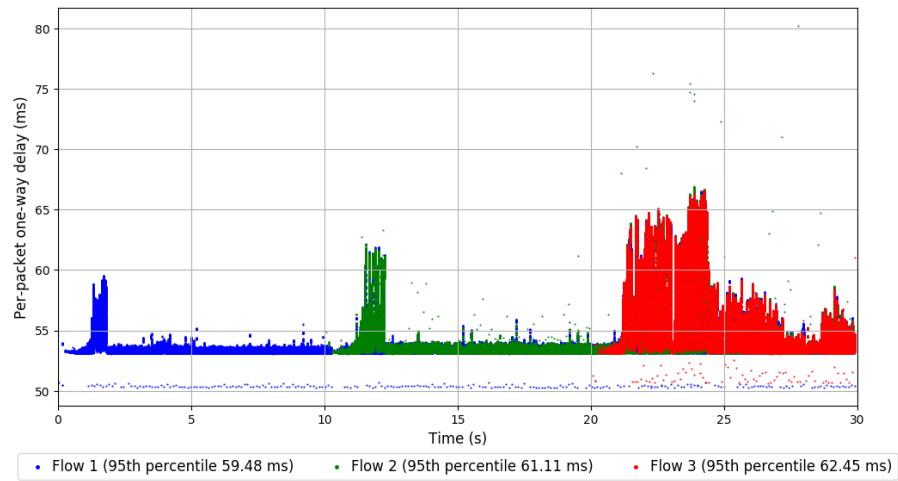
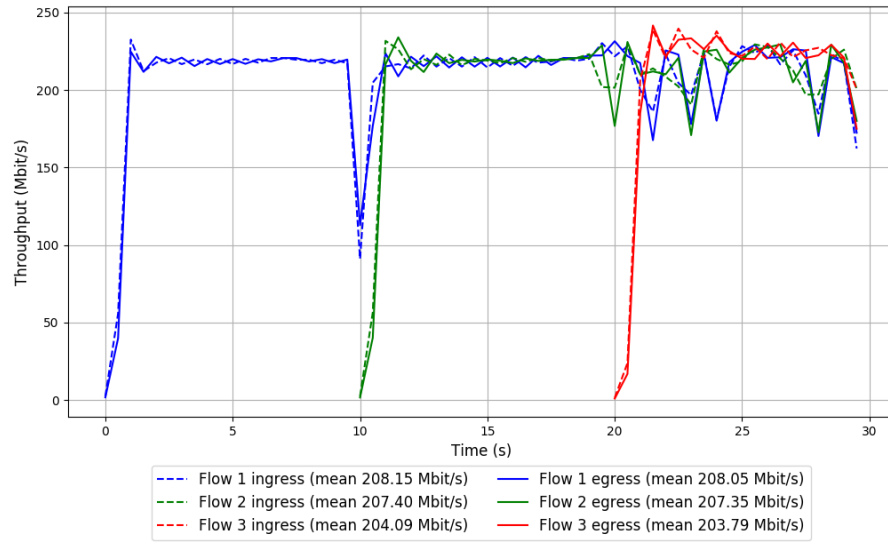
-- Flow 3:

Average throughput: 203.79 Mbit/s

95th percentile per-packet one-way delay: 62.446 ms

Loss rate: 1.18%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 20:16:45

End at: 2017-11-21 20:17:15

Below is generated by plot.py at 2017-11-21 23:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.25 Mbit/s

95th percentile per-packet one-way delay: 56.510 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 212.26 Mbit/s

95th percentile per-packet one-way delay: 55.650 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 201.12 Mbit/s

95th percentile per-packet one-way delay: 56.353 ms

Loss rate: 0.63%

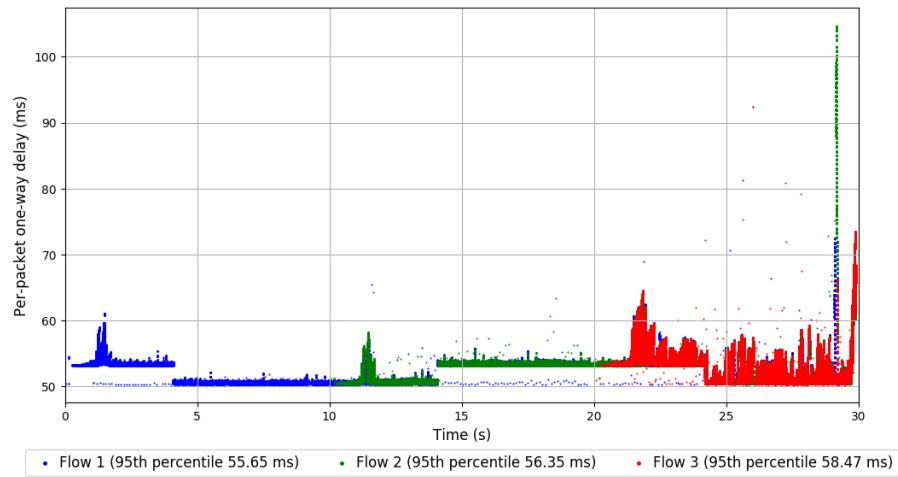
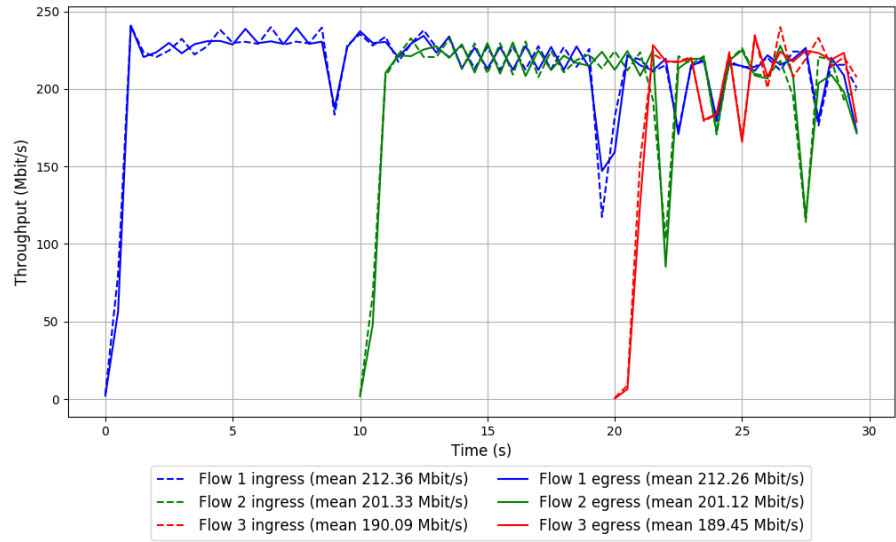
-- Flow 3:

Average throughput: 189.45 Mbit/s

95th percentile per-packet one-way delay: 58.465 ms

Loss rate: 1.39%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 20:28:32

End at: 2017-11-21 20:29:02

Below is generated by plot.py at 2017-11-21 23:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.81 Mbit/s

95th percentile per-packet one-way delay: 56.931 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 207.23 Mbit/s

95th percentile per-packet one-way delay: 56.028 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 56.988 ms

Loss rate: 0.45%

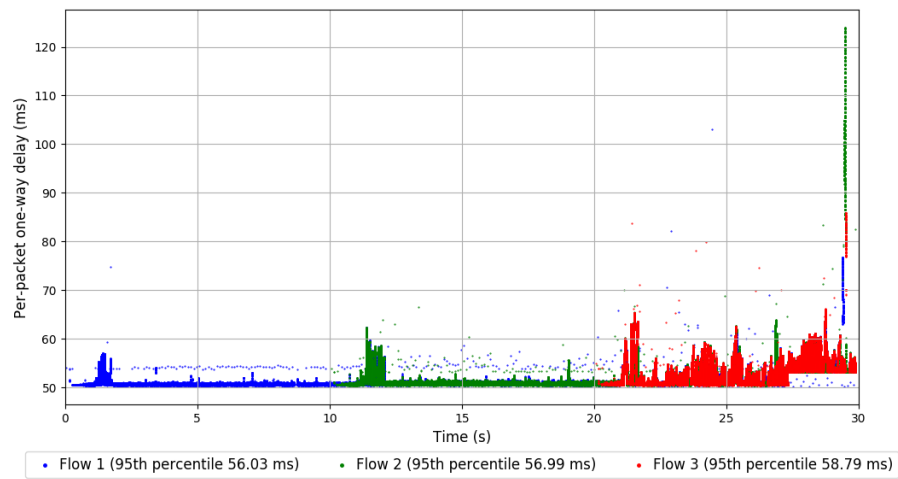
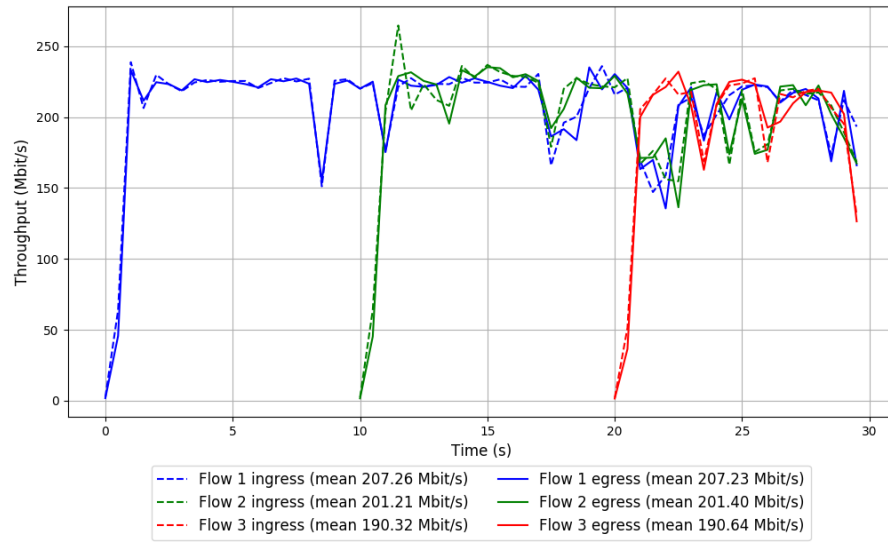
-- Flow 3:

Average throughput: 190.64 Mbit/s

95th percentile per-packet one-way delay: 58.793 ms

Loss rate: 0.33%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 20:40:51

End at: 2017-11-21 20:41:21

Below is generated by plot.py at 2017-11-21 23:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.68 Mbit/s

95th percentile per-packet one-way delay: 65.460 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 204.13 Mbit/s

95th percentile per-packet one-way delay: 63.838 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 205.68 Mbit/s

95th percentile per-packet one-way delay: 65.551 ms

Loss rate: 0.63%

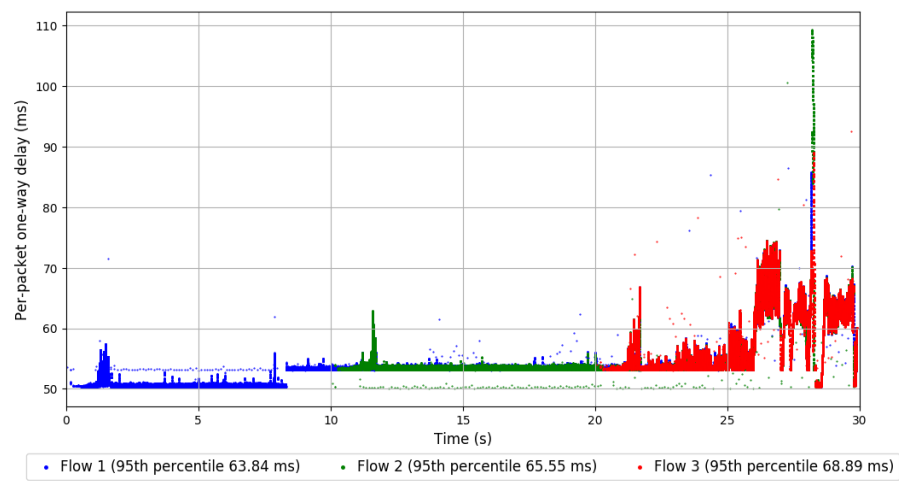
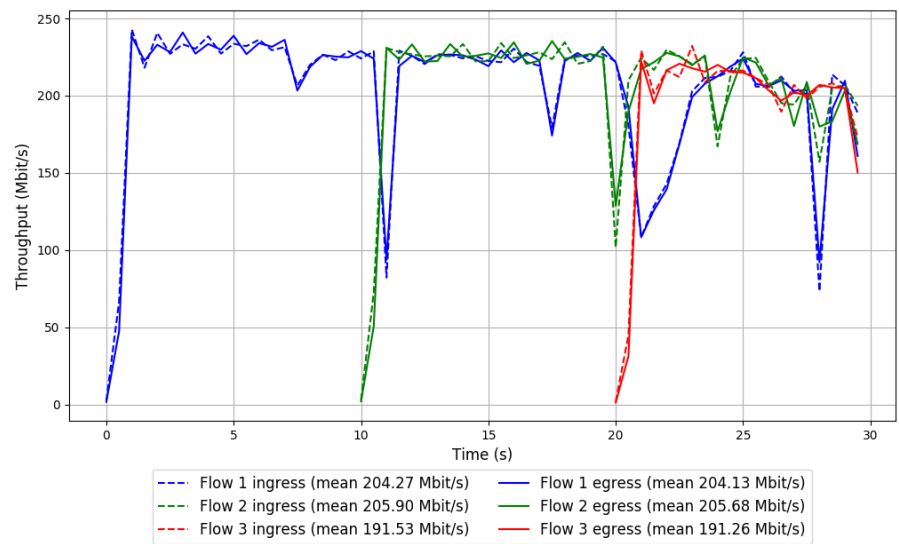
-- Flow 3:

Average throughput: 191.26 Mbit/s

95th percentile per-packet one-way delay: 68.890 ms

Loss rate: 1.23%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 20:53:18

End at: 2017-11-21 20:53:48

Below is generated by plot.py at 2017-11-21 23:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.06 Mbit/s

95th percentile per-packet one-way delay: 70.156 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 211.02 Mbit/s

95th percentile per-packet one-way delay: 68.071 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 204.46 Mbit/s

95th percentile per-packet one-way delay: 69.351 ms

Loss rate: 0.61%

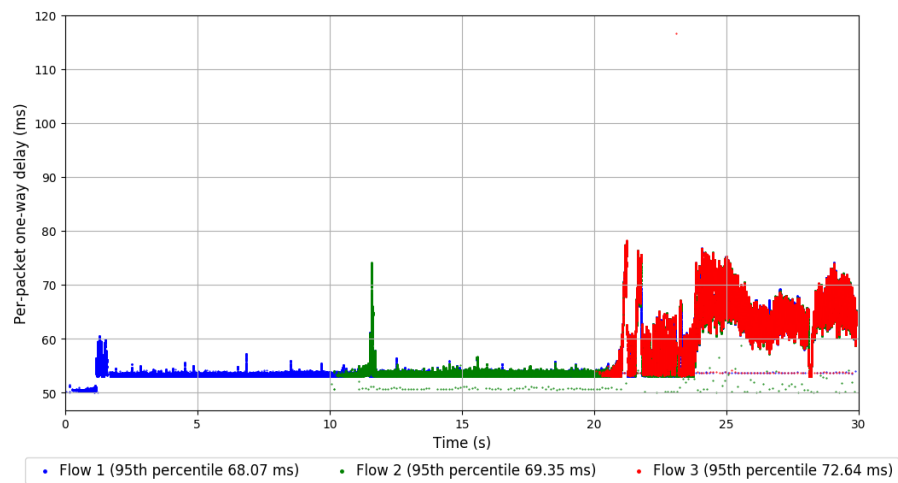
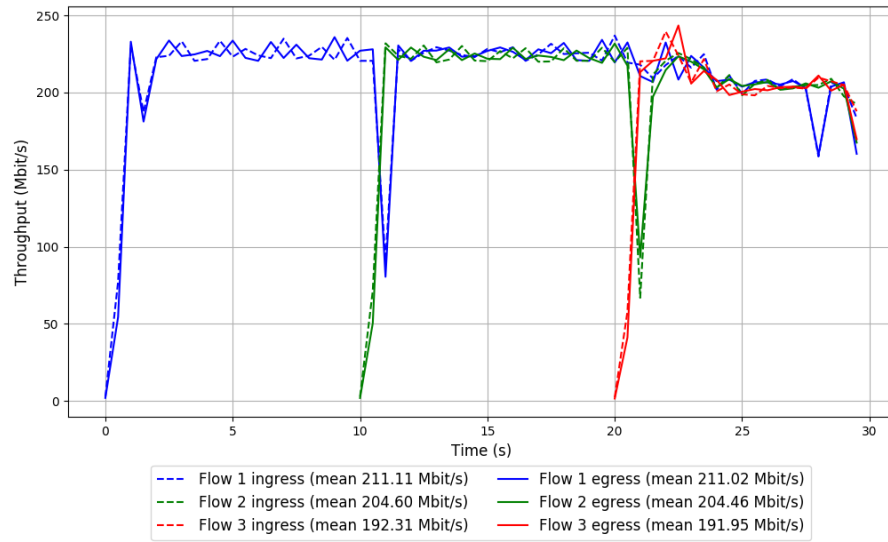
-- Flow 3:

Average throughput: 191.95 Mbit/s

95th percentile per-packet one-way delay: 72.645 ms

Loss rate: 1.27%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 21:04:58

End at: 2017-11-21 21:05:28

Below is generated by plot.py at 2017-11-21 23:48:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.58 Mbit/s

95th percentile per-packet one-way delay: 62.745 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 209.00 Mbit/s

95th percentile per-packet one-way delay: 61.650 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 209.64 Mbit/s

95th percentile per-packet one-way delay: 62.602 ms

Loss rate: 0.57%

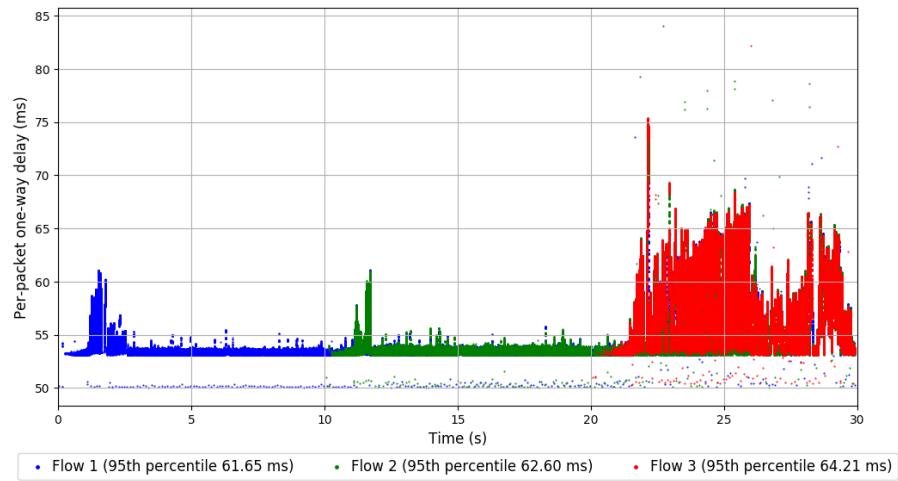
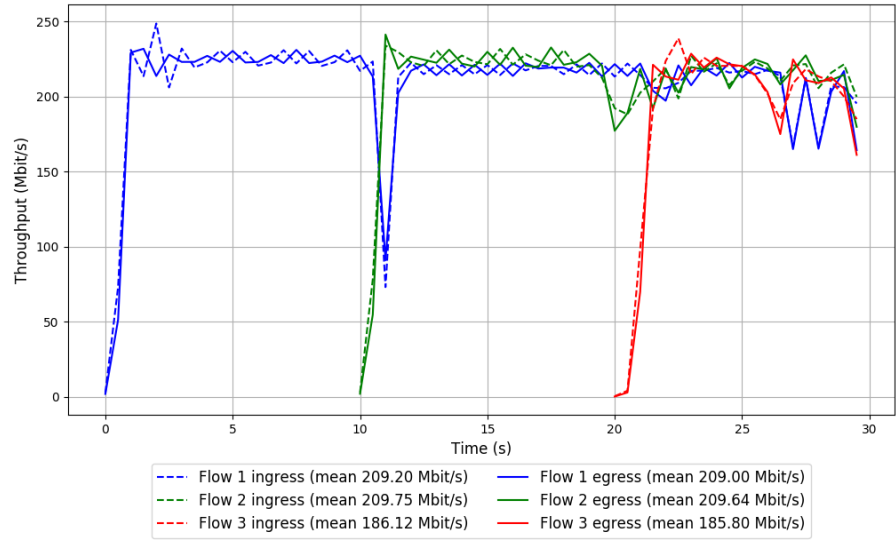
-- Flow 3:

Average throughput: 185.80 Mbit/s

95th percentile per-packet one-way delay: 64.211 ms

Loss rate: 1.22%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 21:16:37

End at: 2017-11-21 21:17:07

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.17 Mbit/s

95th percentile per-packet one-way delay: 58.040 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 214.52 Mbit/s

95th percentile per-packet one-way delay: 57.462 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 196.80 Mbit/s

95th percentile per-packet one-way delay: 58.151 ms

Loss rate: 0.63%

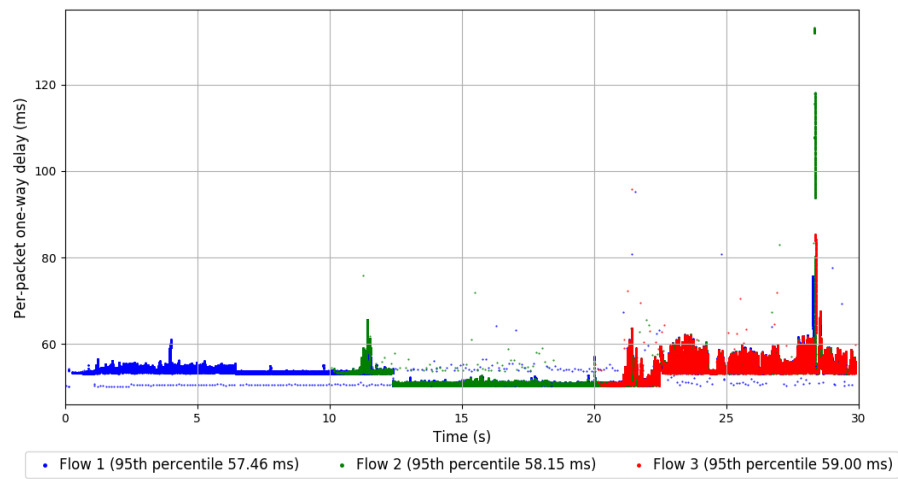
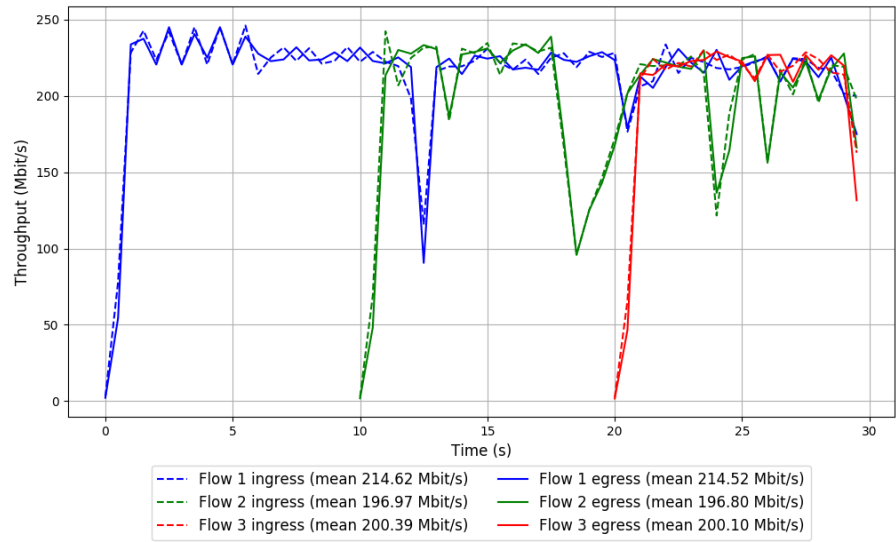
-- Flow 3:

Average throughput: 200.10 Mbit/s

95th percentile per-packet one-way delay: 59.001 ms

Loss rate: 1.19%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 19:32:28

End at: 2017-11-21 19:32:58

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.72 Mbit/s

95th percentile per-packet one-way delay: 55.789 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 102.82 Mbit/s

95th percentile per-packet one-way delay: 55.080 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 108.45 Mbit/s

95th percentile per-packet one-way delay: 56.969 ms

Loss rate: 0.66%

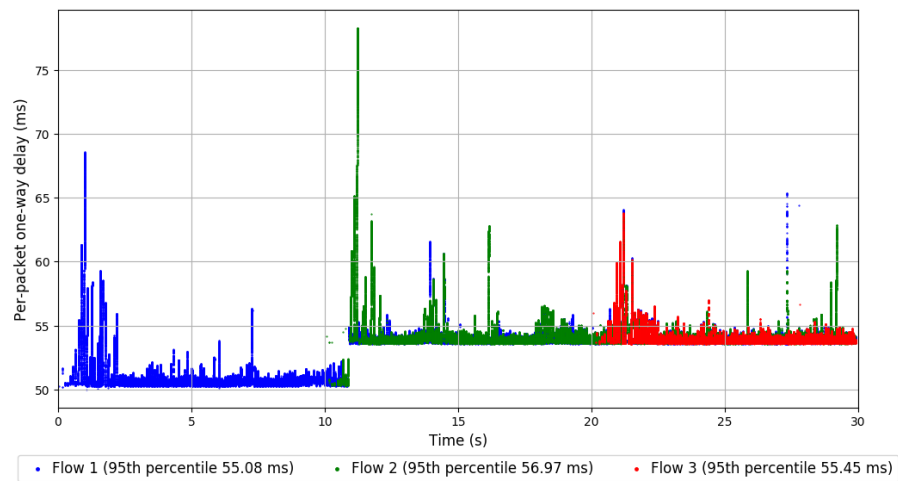
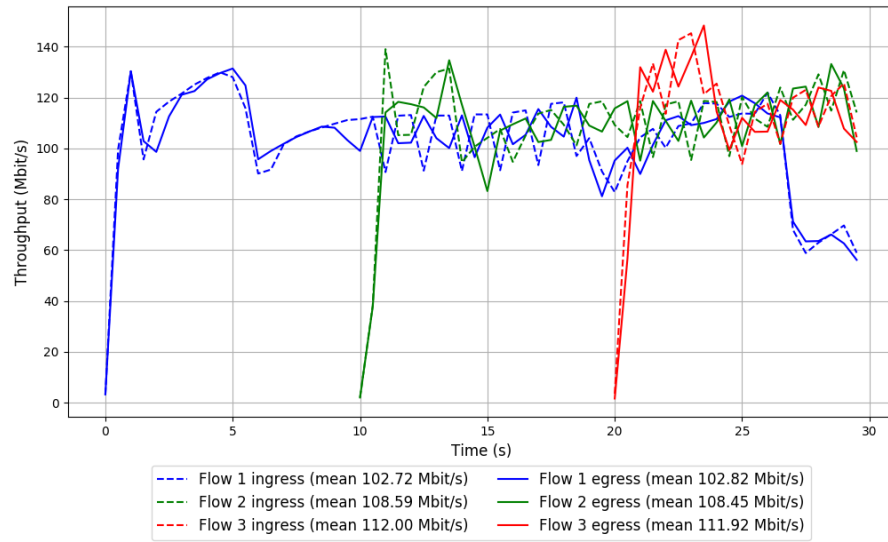
-- Flow 3:

Average throughput: 111.92 Mbit/s

95th percentile per-packet one-way delay: 55.451 ms

Loss rate: 1.17%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 19:44:41

End at: 2017-11-21 19:45:11

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.62 Mbit/s

95th percentile per-packet one-way delay: 56.892 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 121.42 Mbit/s

95th percentile per-packet one-way delay: 57.240 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 115.60 Mbit/s

95th percentile per-packet one-way delay: 58.027 ms

Loss rate: 0.52%

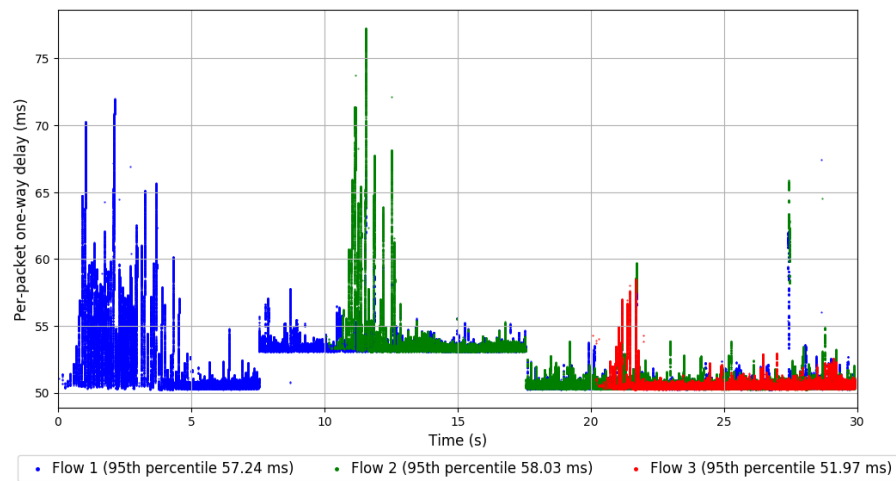
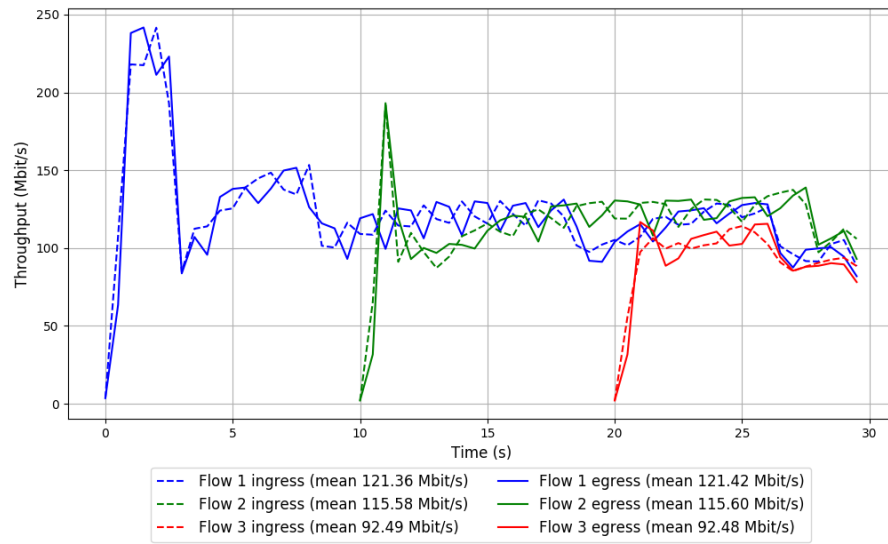
-- Flow 3:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 51.967 ms

Loss rate: 1.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 19:56:23

End at: 2017-11-21 19:56:53

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.64 Mbit/s

95th percentile per-packet one-way delay: 53.642 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 148.85 Mbit/s

95th percentile per-packet one-way delay: 53.450 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 116.44 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.43%

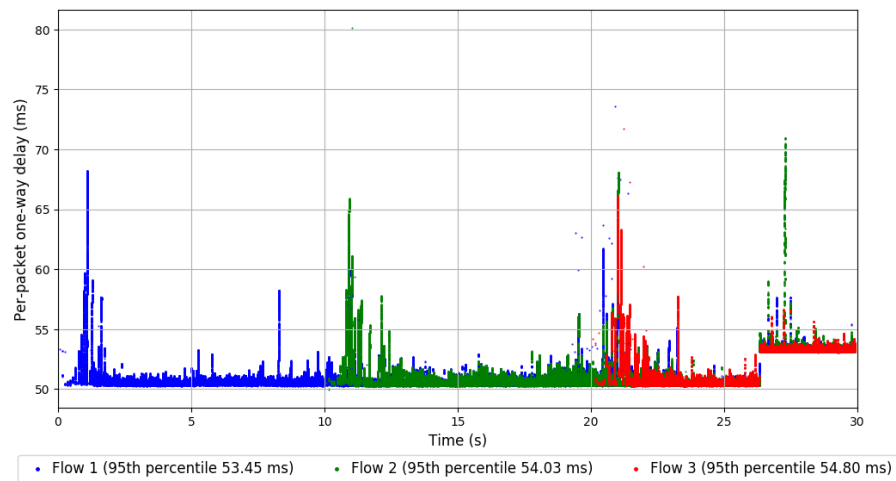
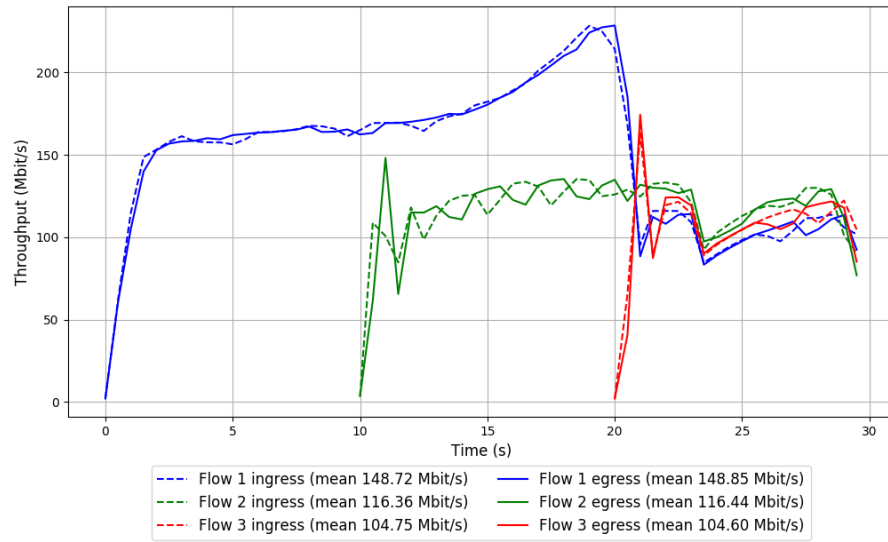
-- Flow 3:

Average throughput: 104.60 Mbit/s

95th percentile per-packet one-way delay: 54.803 ms

Loss rate: 1.20%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 20:07:59

End at: 2017-11-21 20:08:29

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.08 Mbit/s

95th percentile per-packet one-way delay: 57.085 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 58.614 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 98.47 Mbit/s

95th percentile per-packet one-way delay: 56.900 ms

Loss rate: 0.55%

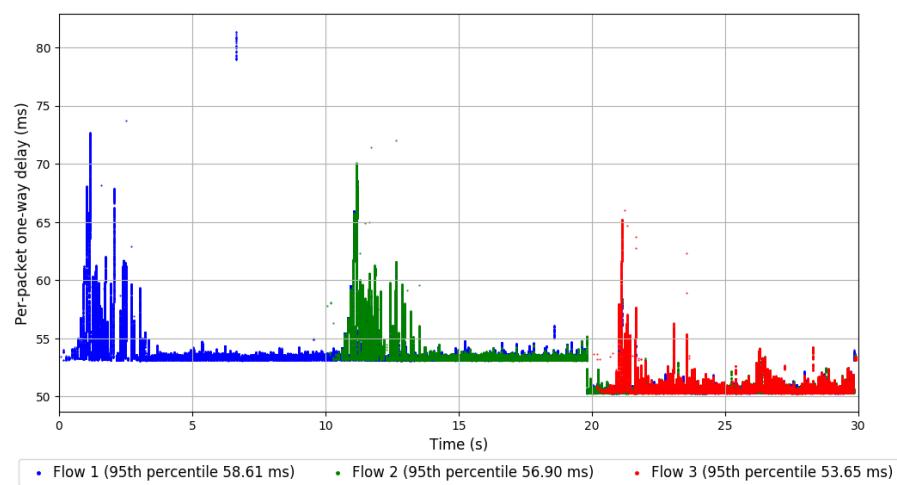
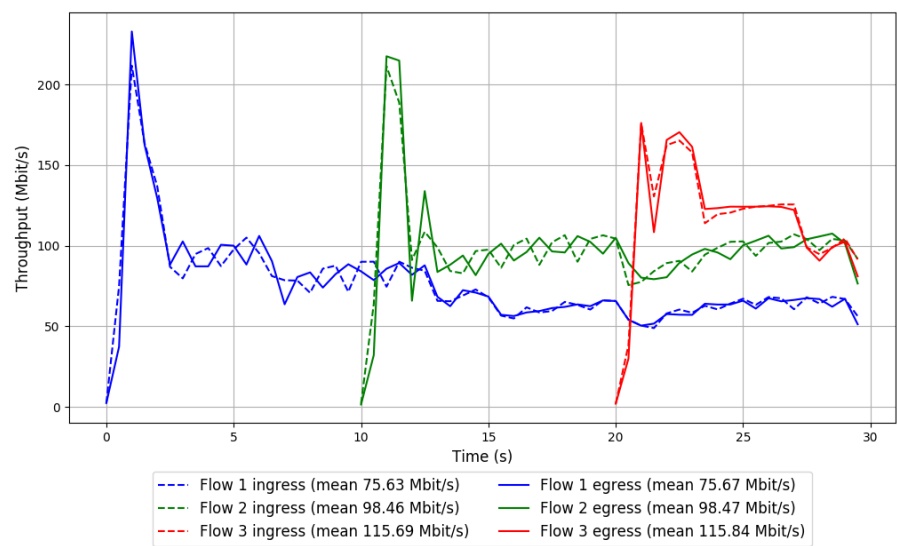
-- Flow 3:

Average throughput: 115.84 Mbit/s

95th percentile per-packet one-way delay: 53.651 ms

Loss rate: 0.97%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 20:19:34

End at: 2017-11-21 20:20:04

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.61 Mbit/s

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

Loss rate: 0.40%

-- Flow 1:

Average throughput: 131.93 Mbit/s

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

Loss rate: 0.30%

-- Flow 2:

Average throughput: 121.77 Mbit/s

95th percentile per-packet one-way delay: 54.576 ms

Loss rate: 0.48%

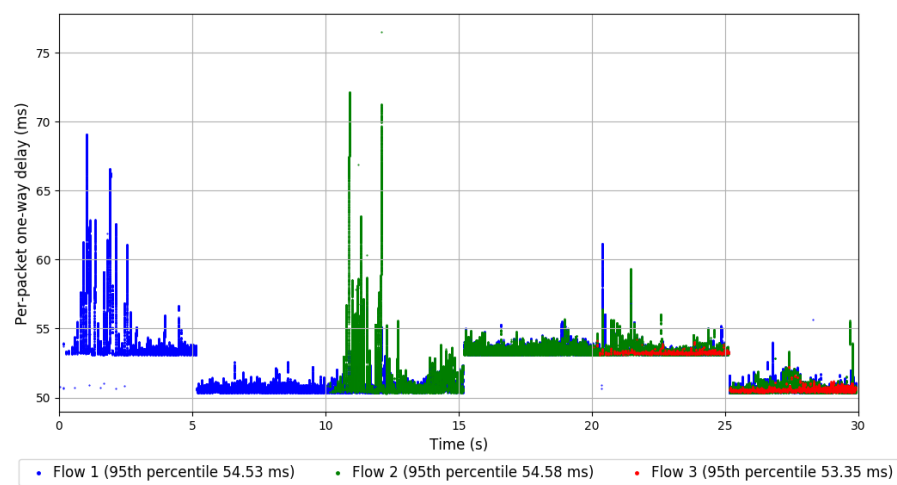
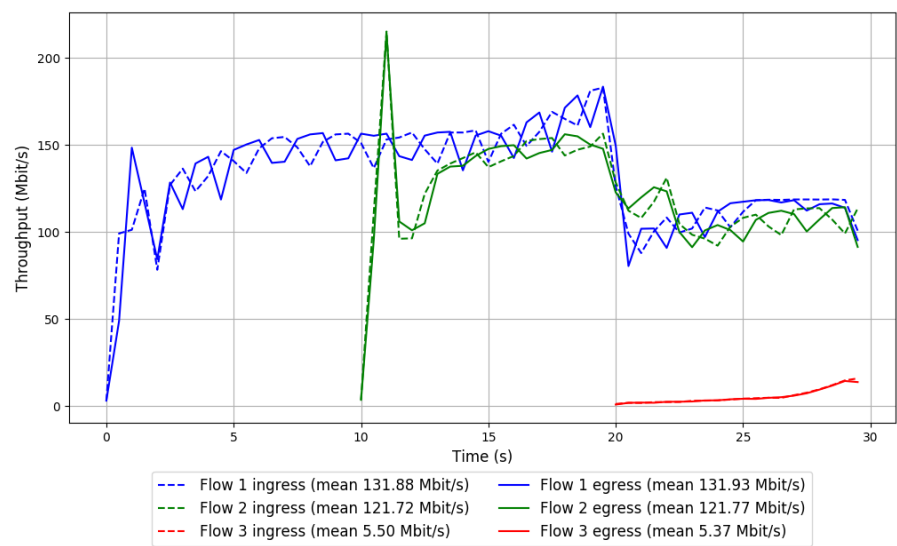
-- Flow 3:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 53.352 ms

Loss rate: 3.52%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 20:31:22

End at: 2017-11-21 20:31:52

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.54 Mbit/s

95th percentile per-packet one-way delay: 58.147 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 59.679 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 153.02 Mbit/s

95th percentile per-packet one-way delay: 57.920 ms

Loss rate: 0.76%

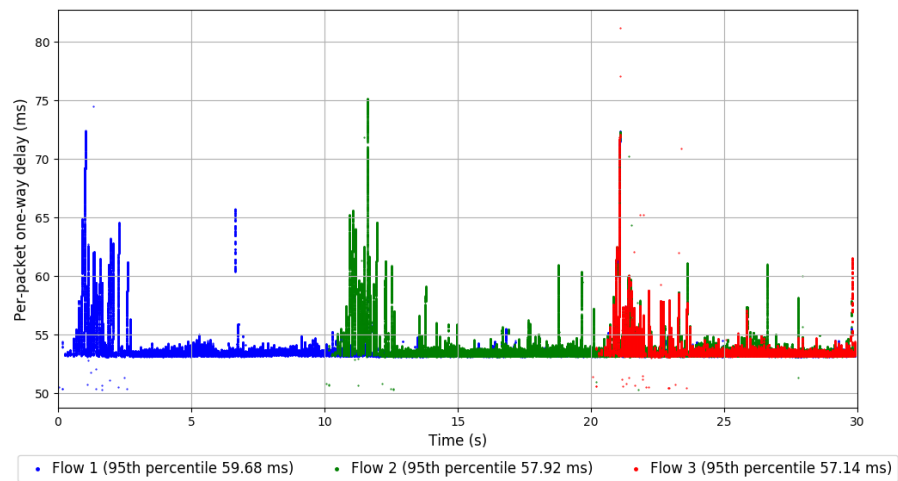
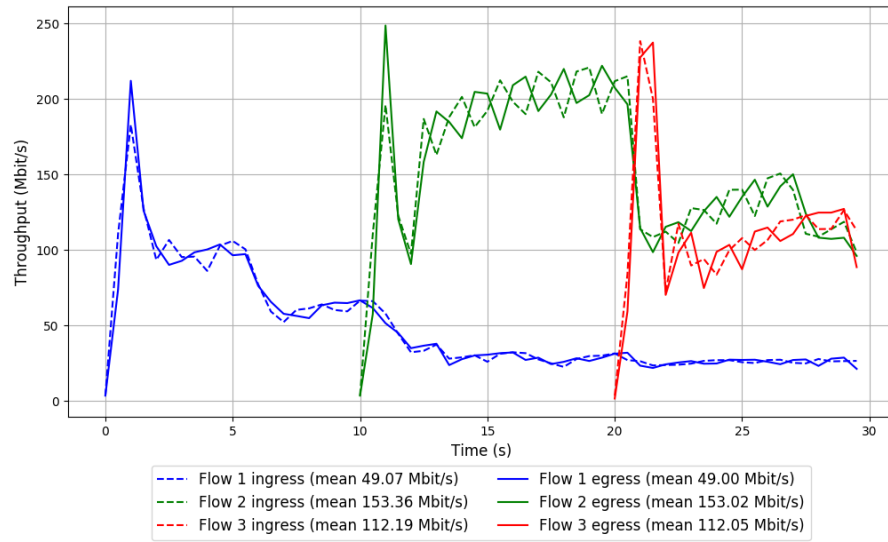
-- Flow 3:

Average throughput: 112.05 Mbit/s

95th percentile per-packet one-way delay: 57.136 ms

Loss rate: 1.14%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 20:43:40

End at: 2017-11-21 20:44:10

Below is generated by plot.py at 2017-11-21 23:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.57 Mbit/s

95th percentile per-packet one-way delay: 55.433 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 82.95 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 57.076 ms

Loss rate: 0.42%

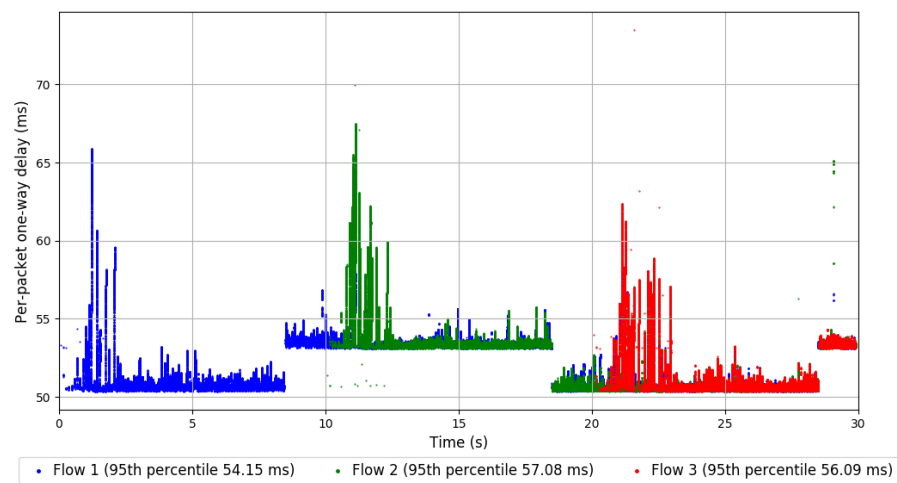
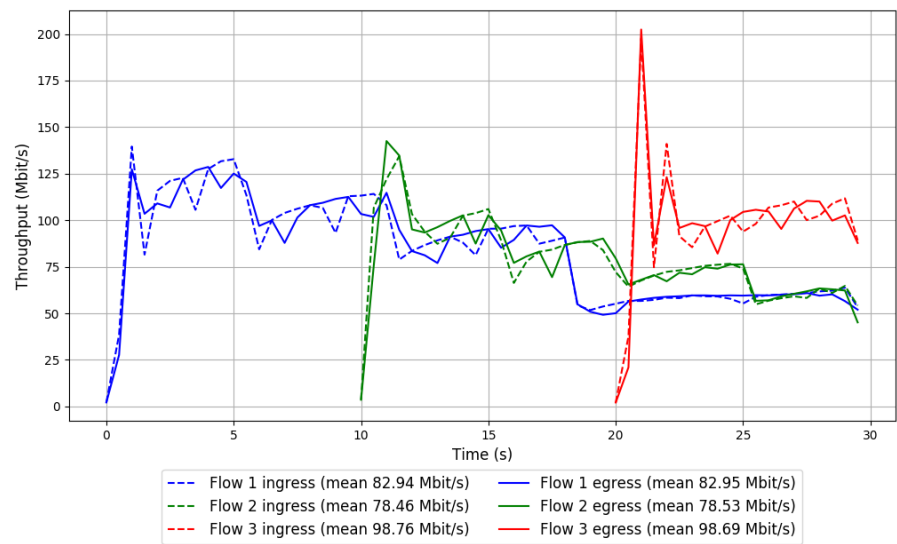
-- Flow 3:

Average throughput: 98.69 Mbit/s

95th percentile per-packet one-way delay: 56.094 ms

Loss rate: 1.15%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 20:56:08

End at: 2017-11-21 20:56:38

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.60 Mbit/s

95th percentile per-packet one-way delay: 56.065 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 133.73 Mbit/s

95th percentile per-packet one-way delay: 56.385 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 107.40 Mbit/s

95th percentile per-packet one-way delay: 55.833 ms

Loss rate: 0.76%

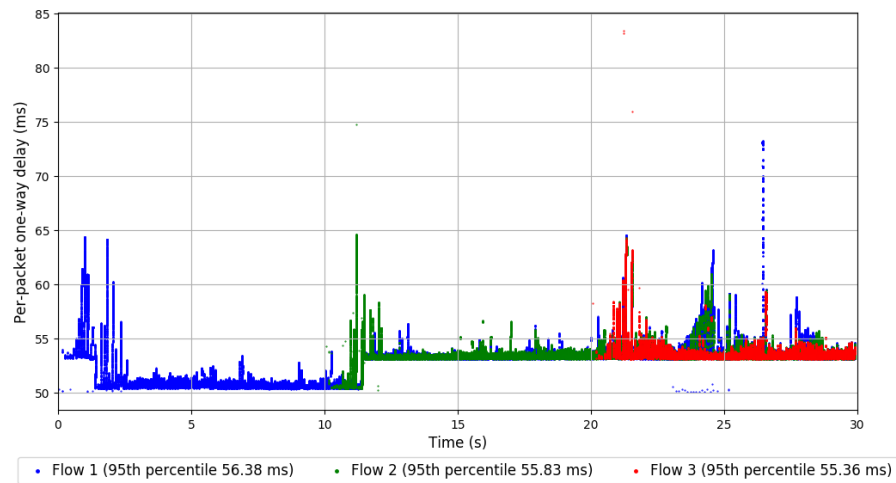
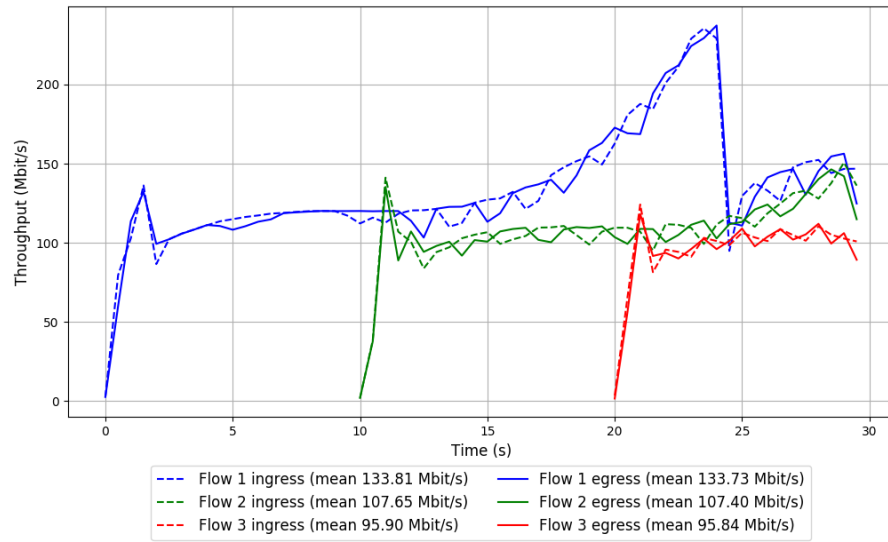
-- Flow 3:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 55.361 ms

Loss rate: 1.19%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 21:07:47

End at: 2017-11-21 21:08:17

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.18 Mbit/s

95th percentile per-packet one-way delay: 56.022 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 116.26 Mbit/s

95th percentile per-packet one-way delay: 57.033 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 131.44 Mbit/s

95th percentile per-packet one-way delay: 54.319 ms

Loss rate: 0.42%

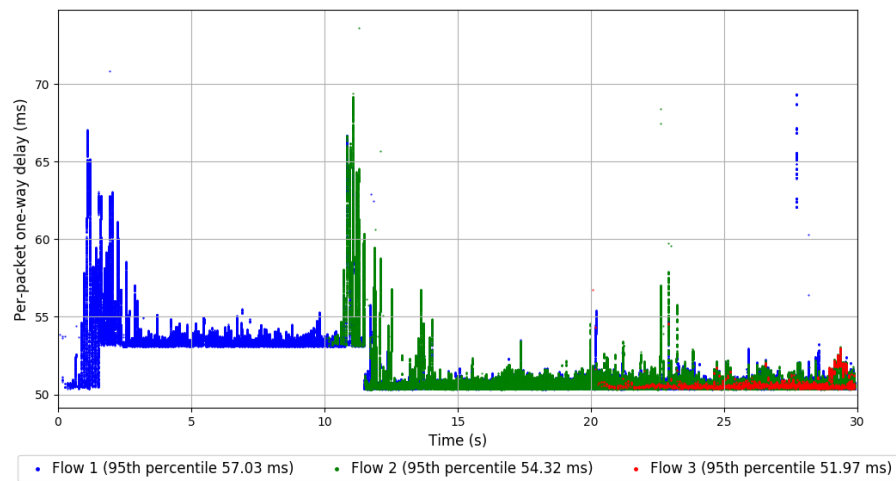
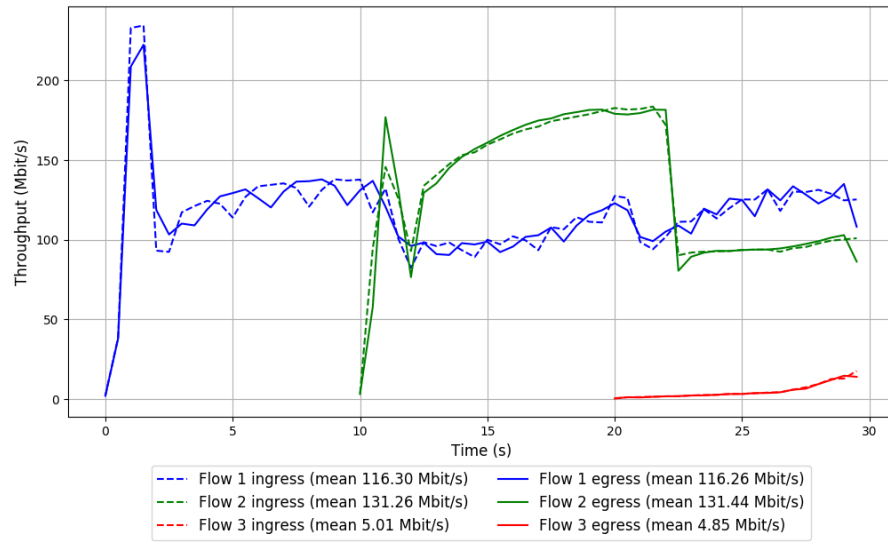
-- Flow 3:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 51.967 ms

Loss rate: 4.20%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 21:19:25

End at: 2017-11-21 21:19:55

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.00 Mbit/s

95th percentile per-packet one-way delay: 54.442 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 128.34 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 134.17 Mbit/s

95th percentile per-packet one-way delay: 55.542 ms

Loss rate: 0.51%

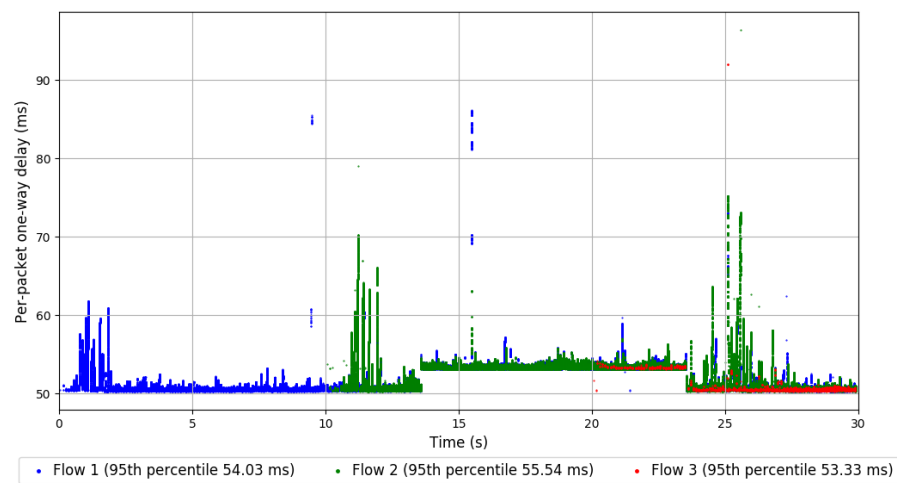
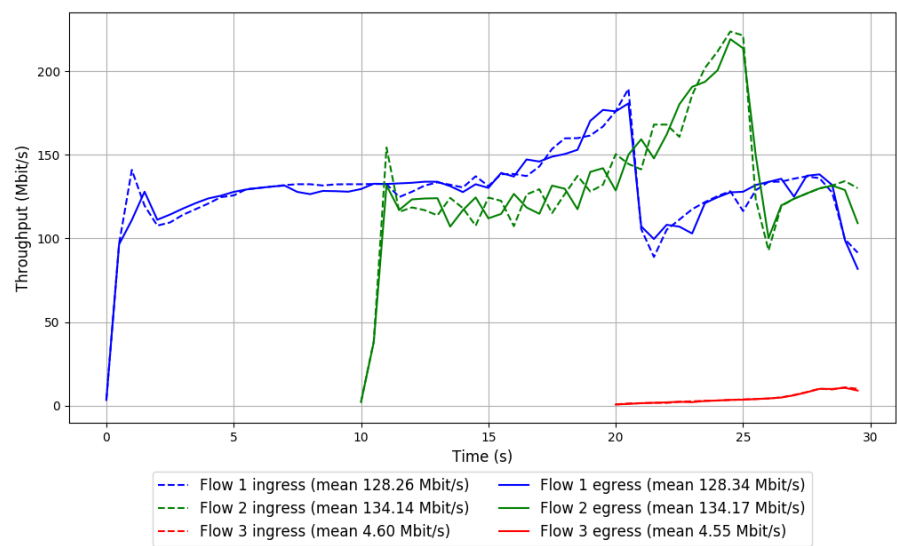
-- Flow 3:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 53.332 ms

Loss rate: 2.62%

Run 10: Report of TCP Cubic — Data Link

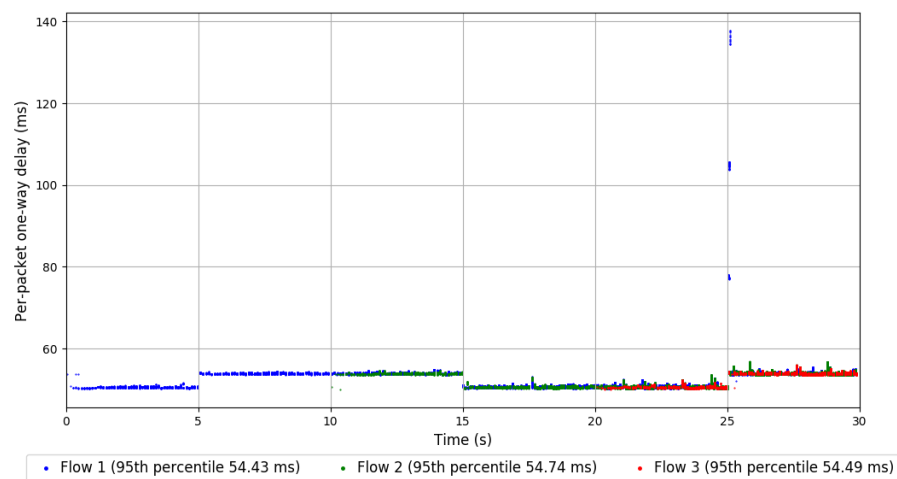
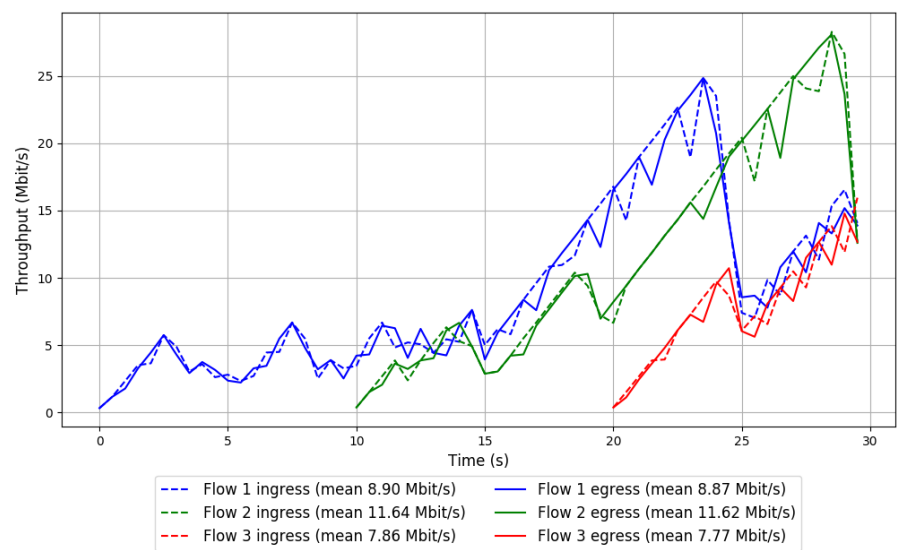


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 19:37:14
End at: 2017-11-21 19:37:44

# Below is generated by plot.py at 2017-11-21 23:49:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.13 Mbit/s
95th percentile per-packet one-way delay: 54.537 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 54.429 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 54.745 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 54.491 ms
Loss rate: 2.14%
```


Run 1: Report of LEDBAT — Data Link

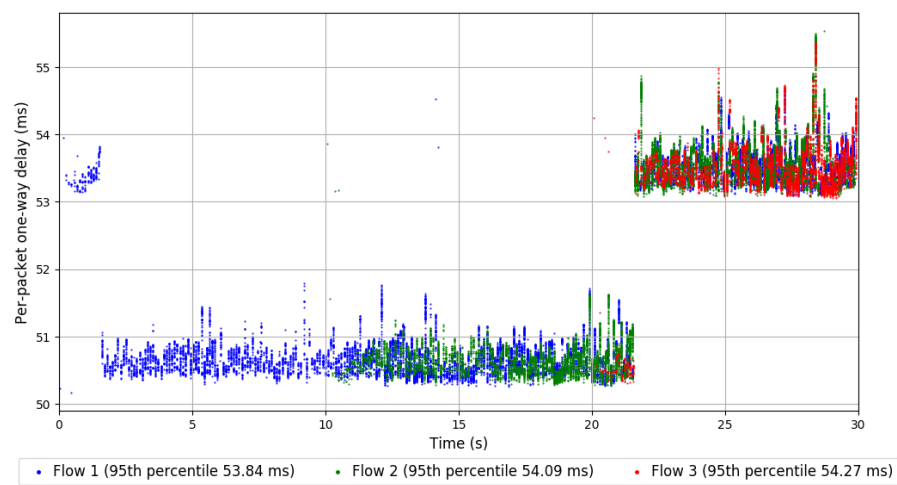
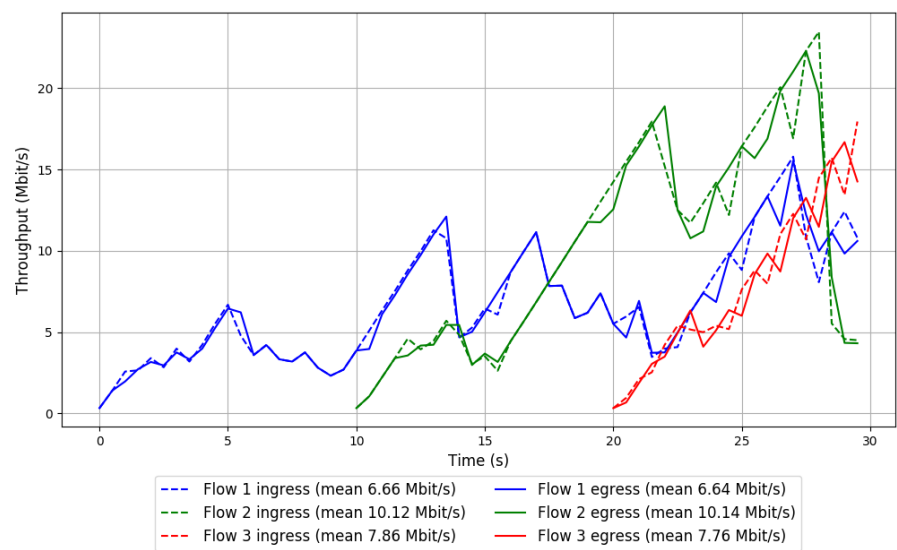


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-21 19:48:47
End at: 2017-11-21 19:49:17

# Below is generated by plot.py at 2017-11-21 23:49:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 53.999 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 53.835 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 54.088 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 54.265 ms
Loss rate: 2.36%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 20:00:27

End at: 2017-11-21 20:00:57

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.03 Mbit/s

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

Loss rate: 1.05%

-- Flow 1:

Average throughput: 11.20 Mbit/s

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

Loss rate: 0.79%

-- Flow 2:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 0.91%

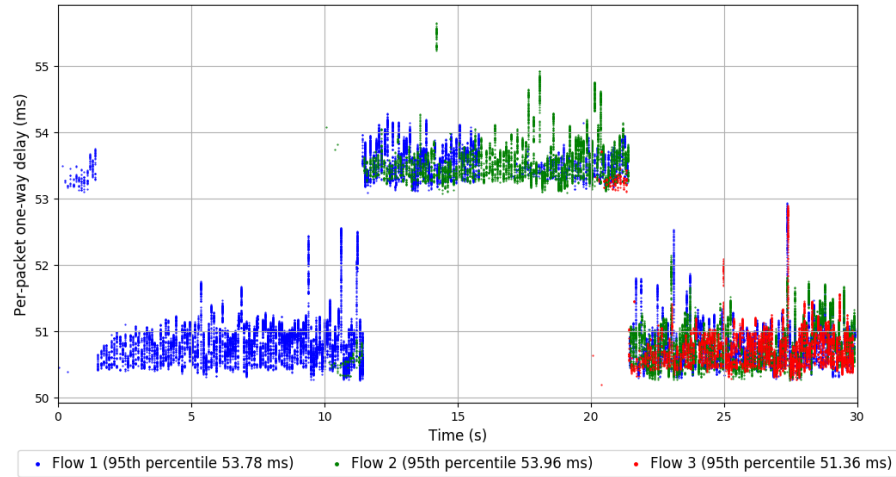
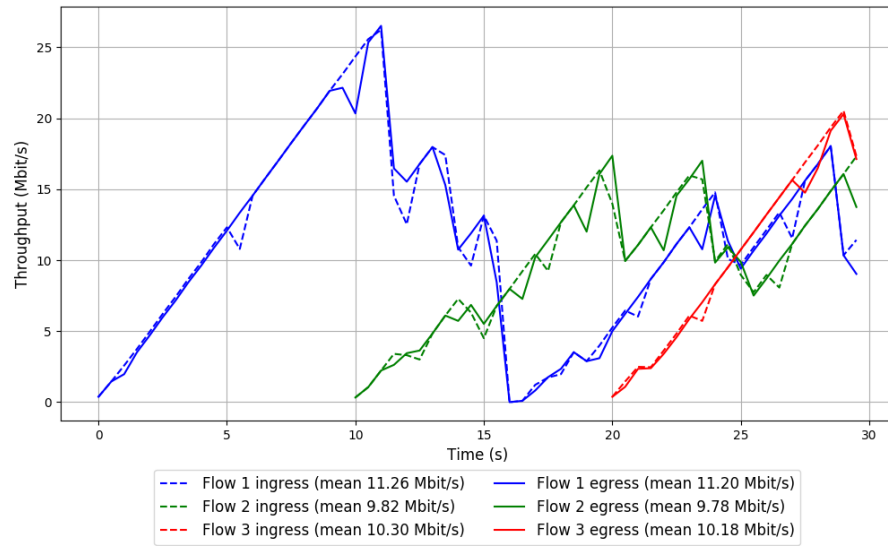
-- Flow 3:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 51.357 ms

Loss rate: 2.17%

Run 3: Report of LEDBAT — Data Link

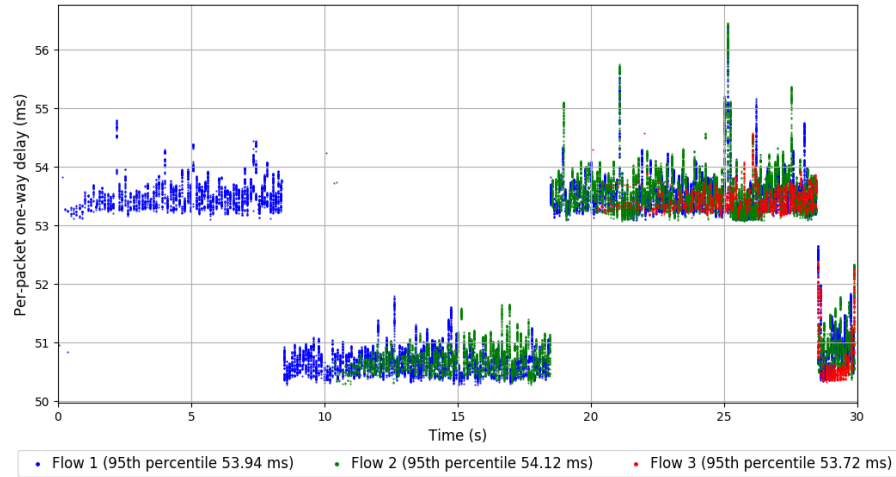
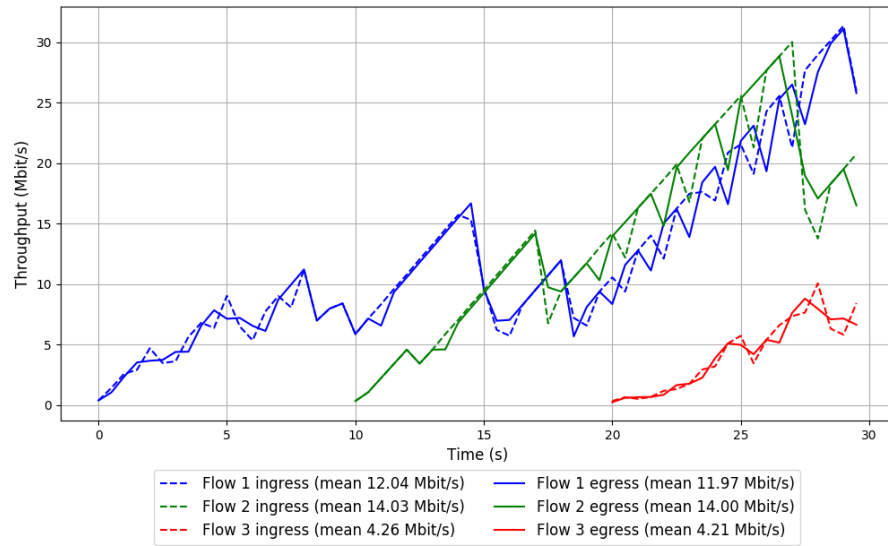


```
Run 4: Statistics of LEDBAT

Start at: 2017-11-21 20:12:00
End at: 2017-11-21 20:12:30

# Below is generated by plot.py at 2017-11-21 23:49:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 54.038 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 53.938 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 54.121 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 53.722 ms
Loss rate: 2.11%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 20:23:49

End at: 2017-11-21 20:24:19

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.00 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 54.559 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 54.320 ms

Loss rate: 1.08%

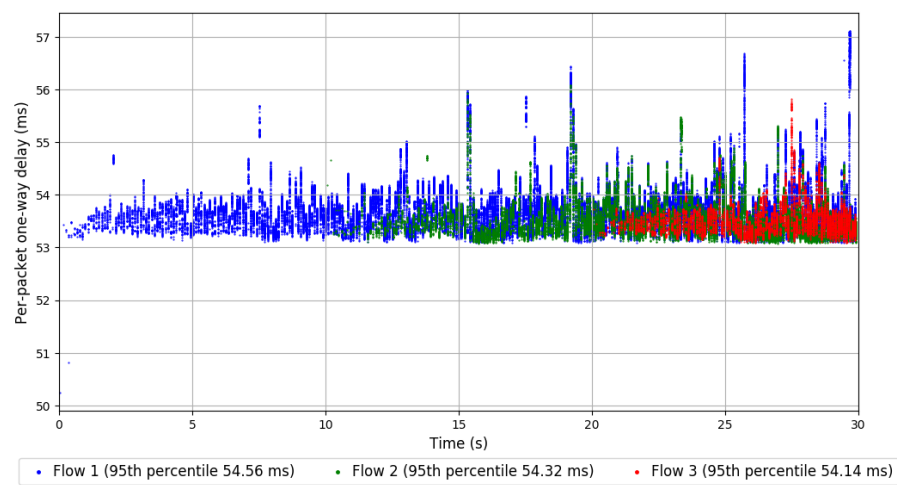
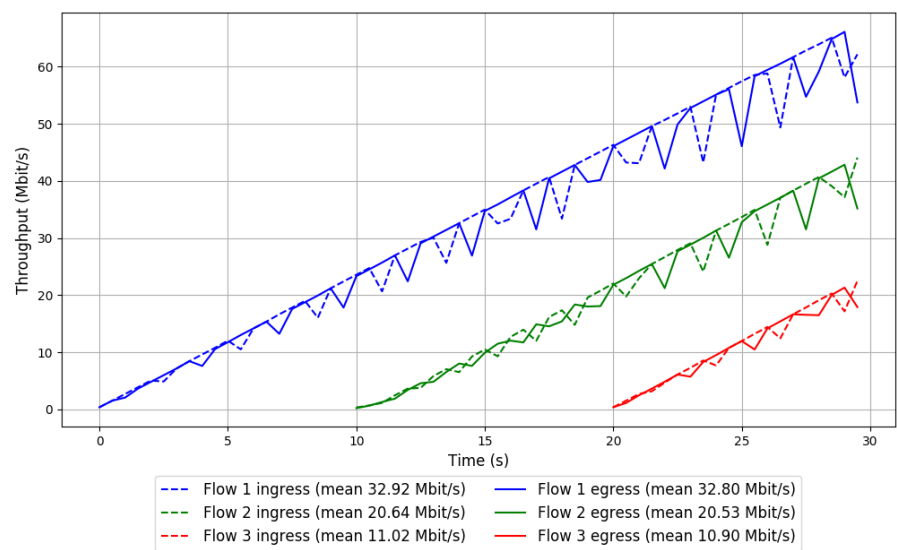
-- Flow 3:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 2.10%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 20:36:12

End at: 2017-11-21 20:36:42

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.17 Mbit/s

95th percentile per-packet one-way delay: 54.177 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 54.156 ms

Loss rate: 0.59%

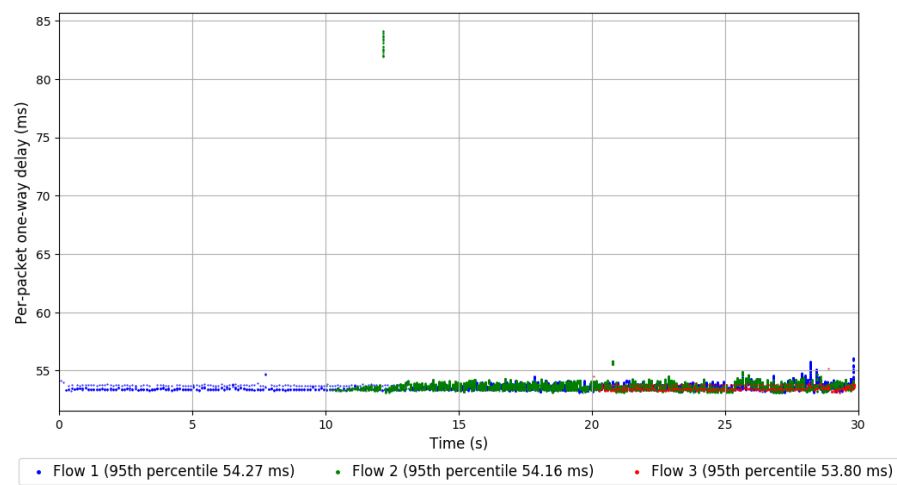
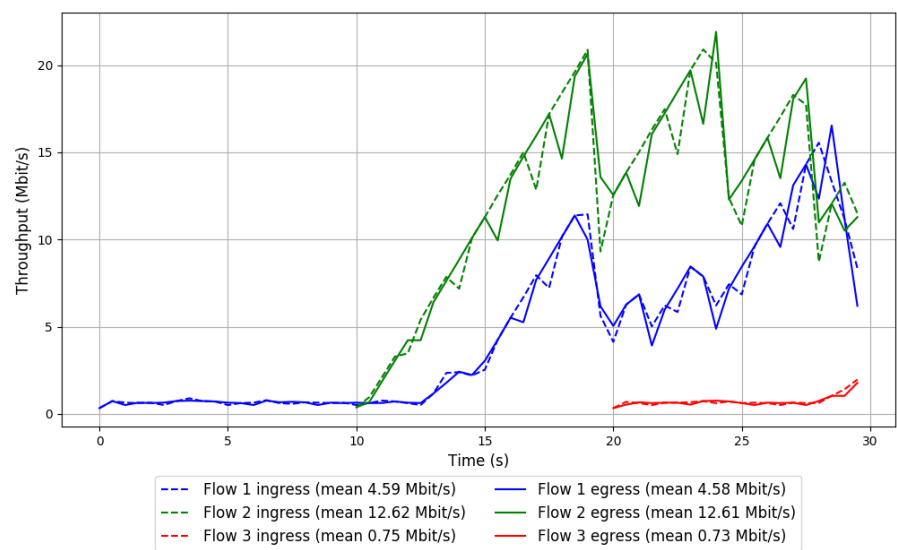
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 3.79%

Run 6: Report of LEDBAT — Data Link

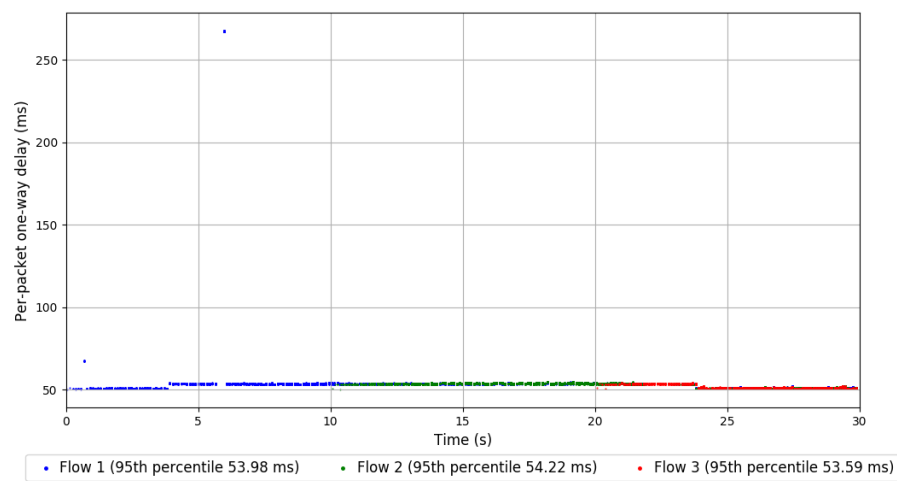
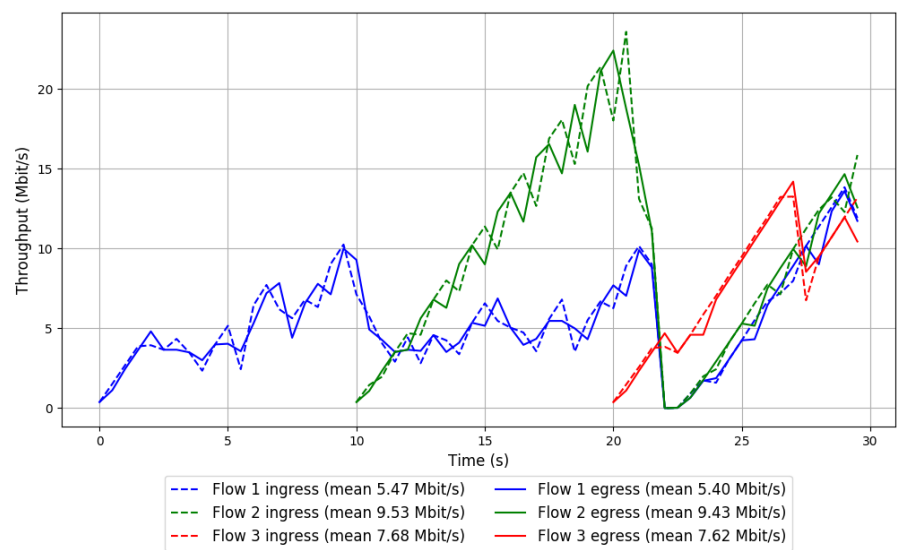


```
Run 7: Statistics of LEDBAT

Start at: 2017-11-21 20:48:35
End at: 2017-11-21 20:49:05

# Below is generated by plot.py at 2017-11-21 23:49:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 54.122 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 53.983 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 54.218 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 1.80%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 21:00:19

End at: 2017-11-21 21:00:49

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.69 Mbit/s

95th percentile per-packet one-way delay: 53.985 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.21%

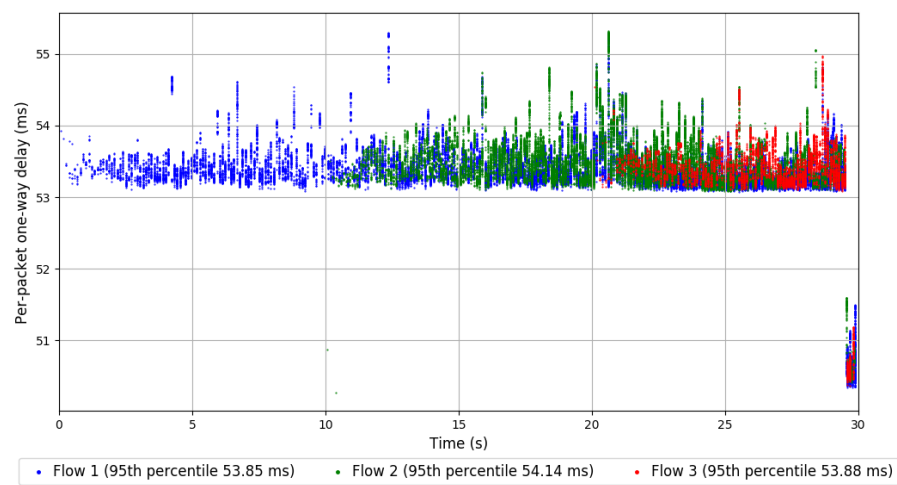
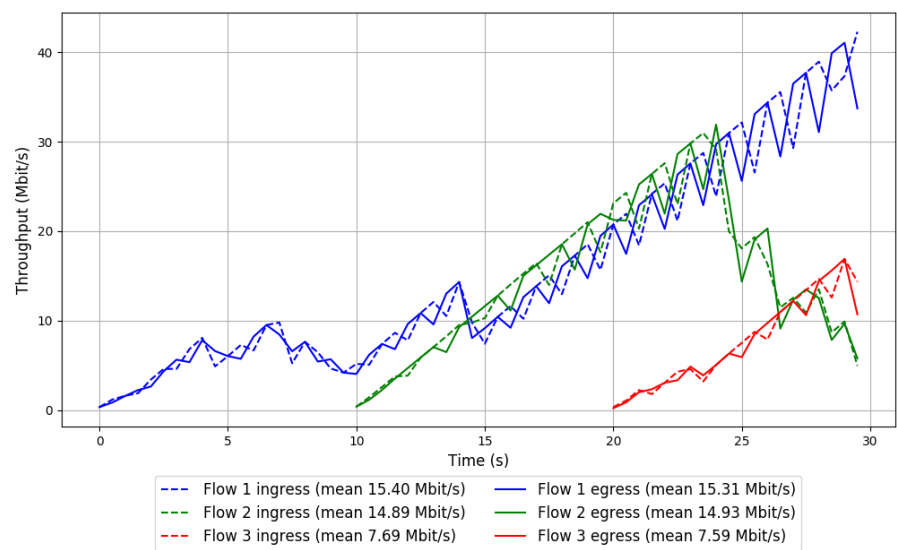
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 2.42%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 21:12:01

End at: 2017-11-21 21:12:31

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.92 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 54.062 ms

Loss rate: 1.33%

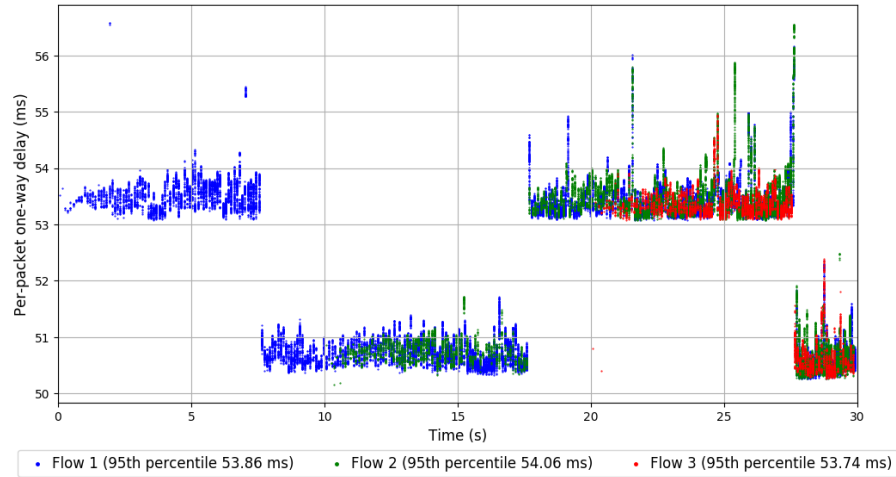
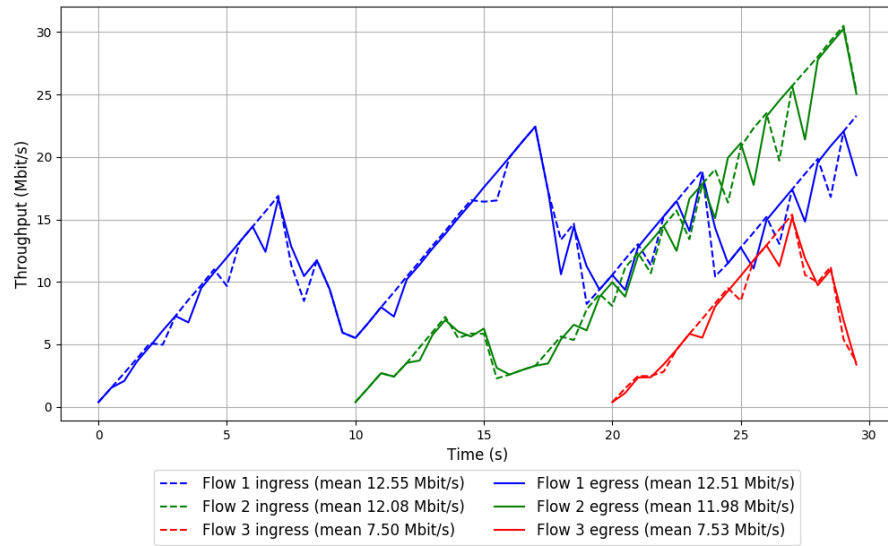
-- Flow 3:

Average throughput: 7.53 Mbit/s

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

Loss rate: 0.66%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 21:23:47

End at: 2017-11-21 21:24:17

Below is generated by plot.py at 2017-11-21 23:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 53.355 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 53.530 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 51.300 ms

Loss rate: 1.28%

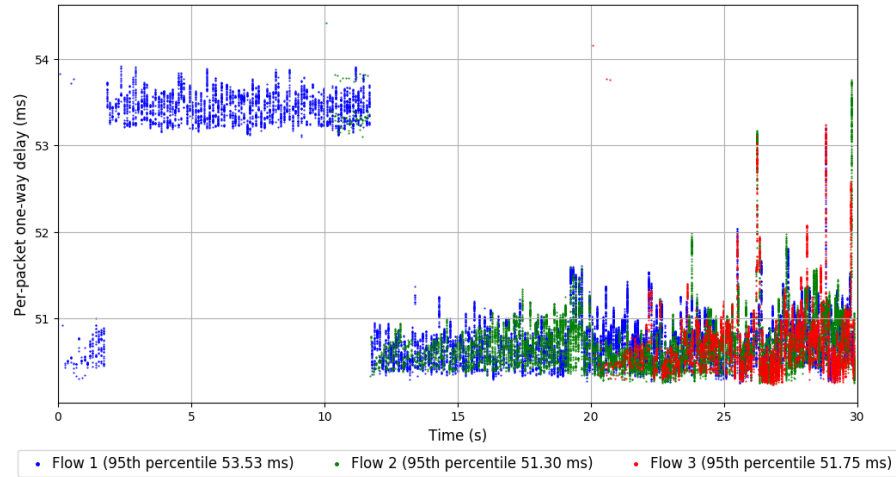
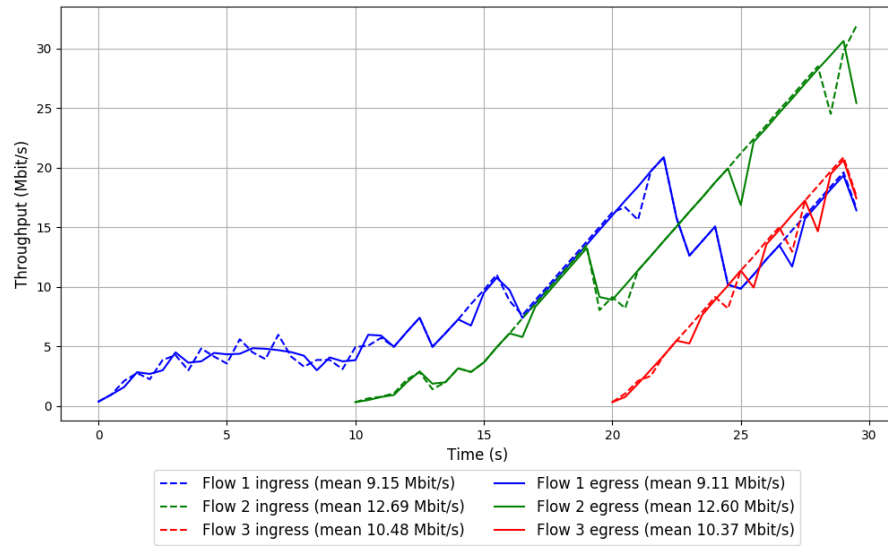
-- Flow 3:

Average throughput: 10.37 Mbit/s

95th percentile per-packet one-way delay: 51.754 ms

Loss rate: 2.16%

Run 10: Report of LEDBAT — Data Link

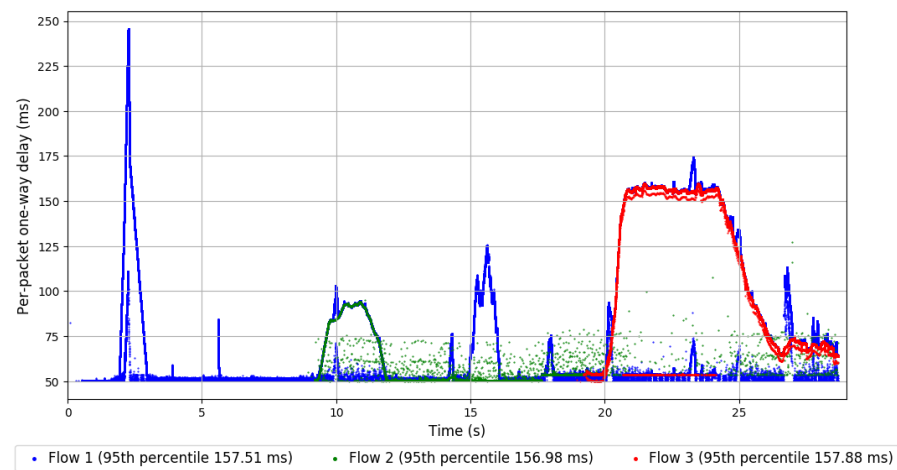
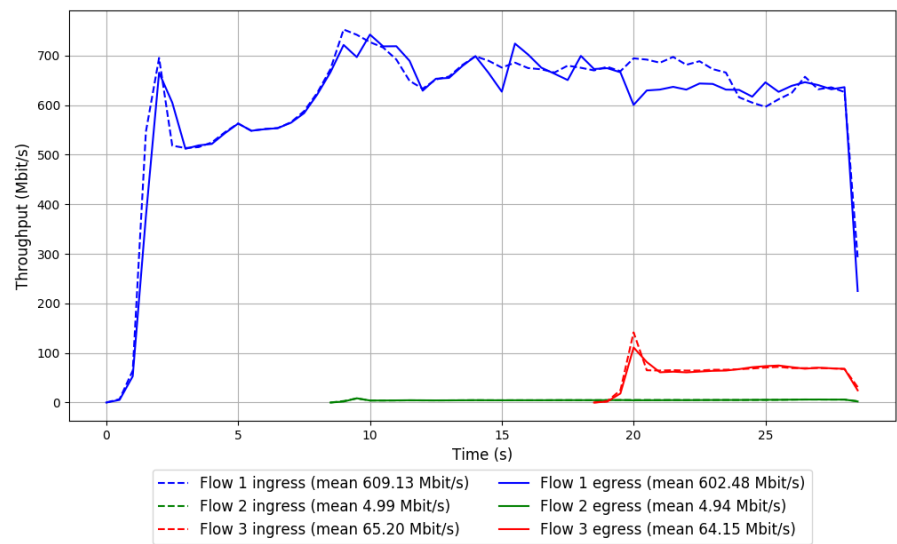


```
Run 1: Statistics of PCC

Start at: 2017-11-21 19:36:10
End at: 2017-11-21 19:36:40

# Below is generated by plot.py at 2017-11-21 23:59:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 627.66 Mbit/s
95th percentile per-packet one-way delay: 157.538 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 602.48 Mbit/s
95th percentile per-packet one-way delay: 157.509 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 156.982 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 157.878 ms
Loss rate: 2.65%
```

Run 1: Report of PCC — Data Link

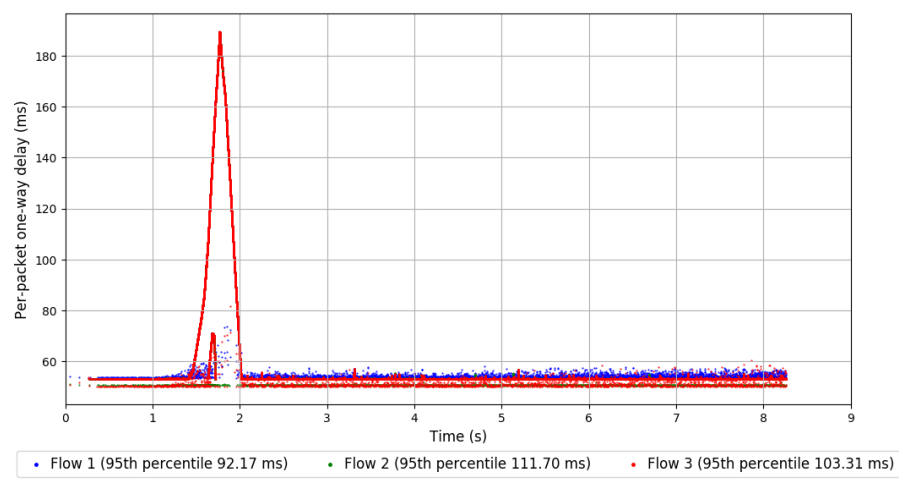
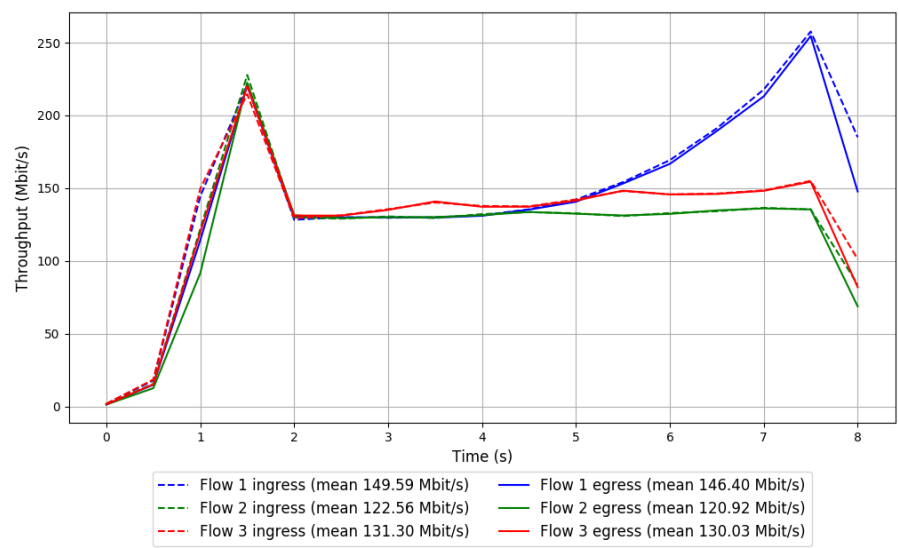


Run 2: Statistics of PCC

Start at: 2017-11-21 19:48:03

End at: 2017-11-21 19:48:33

Run 2: Report of PCC — Data Link

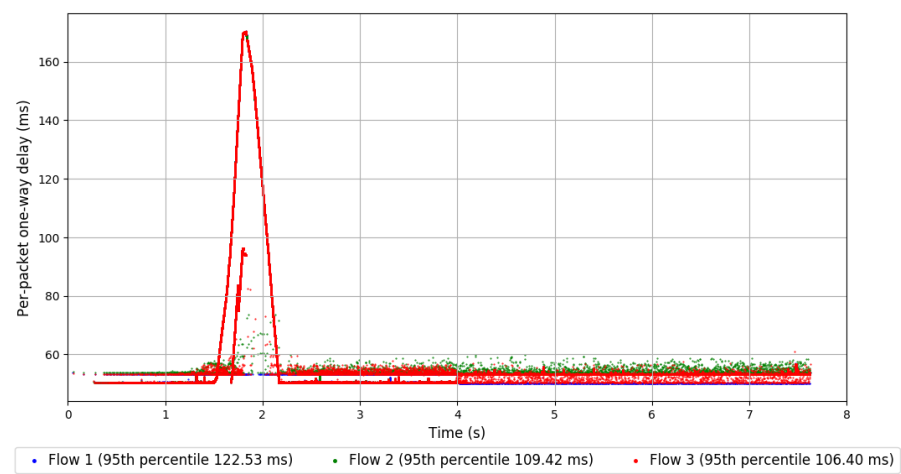
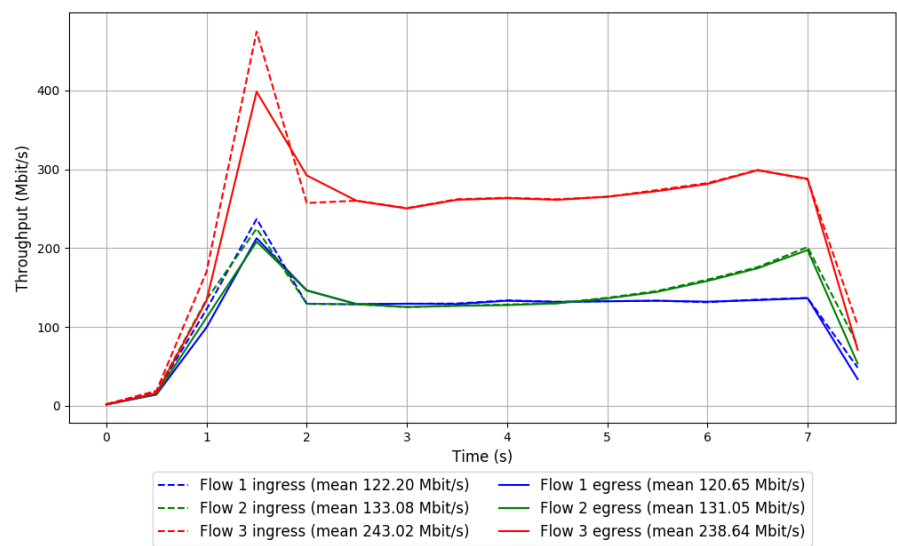


Run 3: Statistics of PCC

Start at: 2017-11-21 19:59:43

End at: 2017-11-21 20:00:13

Run 3: Report of PCC — Data Link

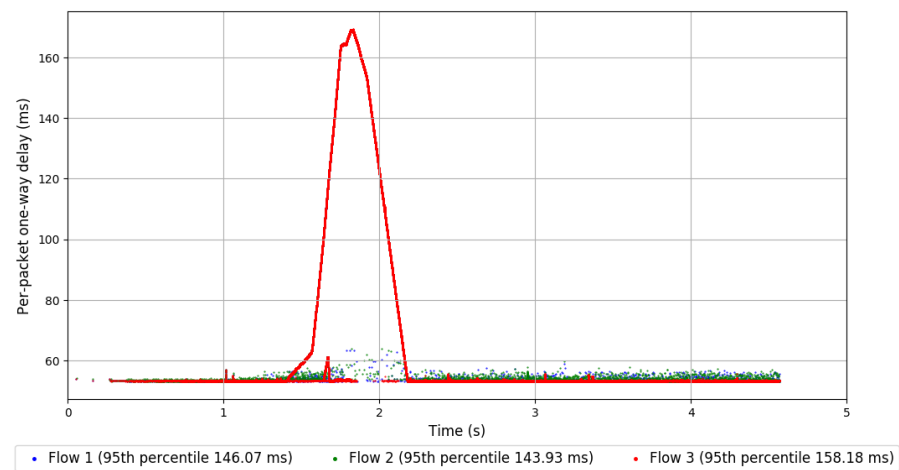
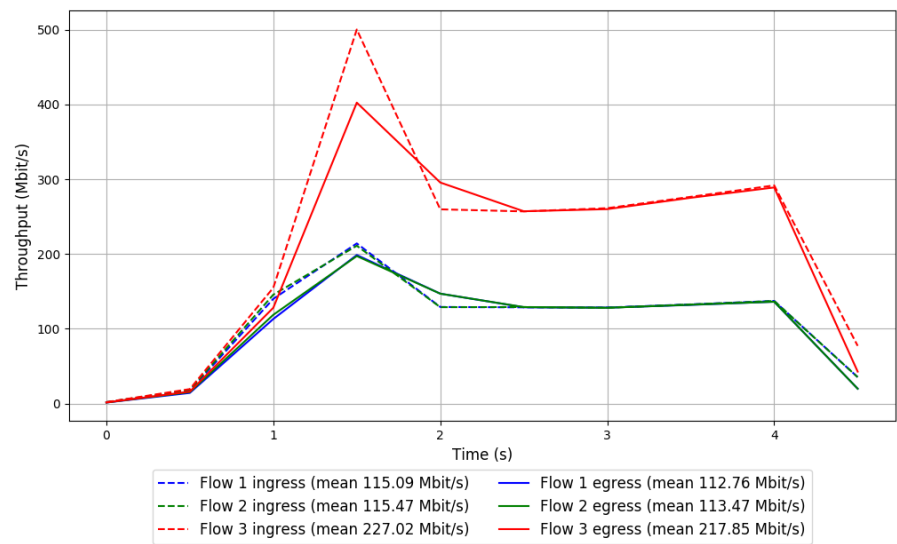


Run 4: Statistics of PCC

Start at: 2017-11-21 20:11:18

End at: 2017-11-21 20:11:48

Run 4: Report of PCC — Data Link

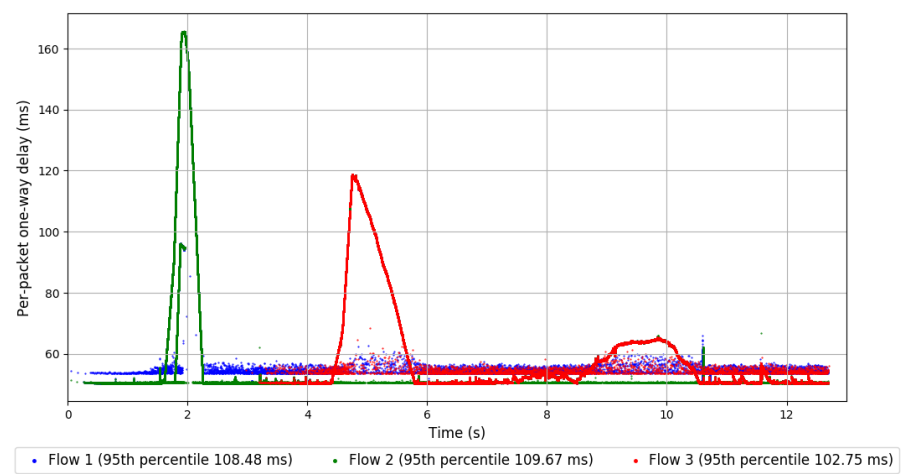
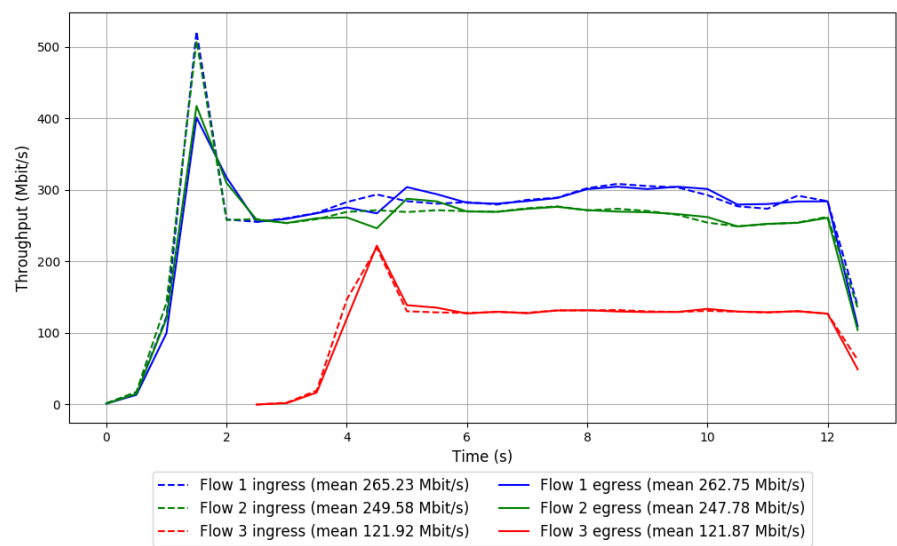


Run 5: Statistics of PCC

Start at: 2017-11-21 20:22:58

End at: 2017-11-21 20:23:28

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 20:35:08

End at: 2017-11-21 20:35:38

Below is generated by plot.py at 2017-11-22 00:00:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 621.54 Mbit/s

95th percentile per-packet one-way delay: 181.243 ms

Loss rate: 3.87%

-- Flow 1:

Average throughput: 609.63 Mbit/s

95th percentile per-packet one-way delay: 181.152 ms

Loss rate: 3.82%

-- Flow 2:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 180.973 ms

Loss rate: 4.67%

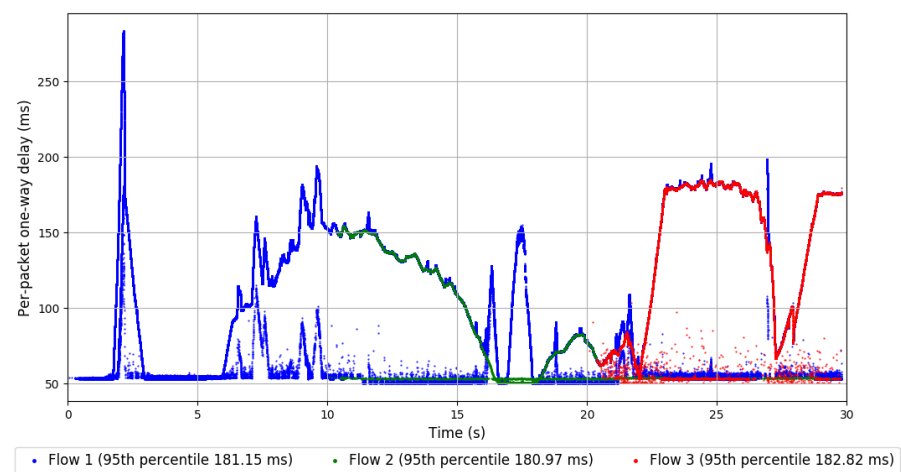
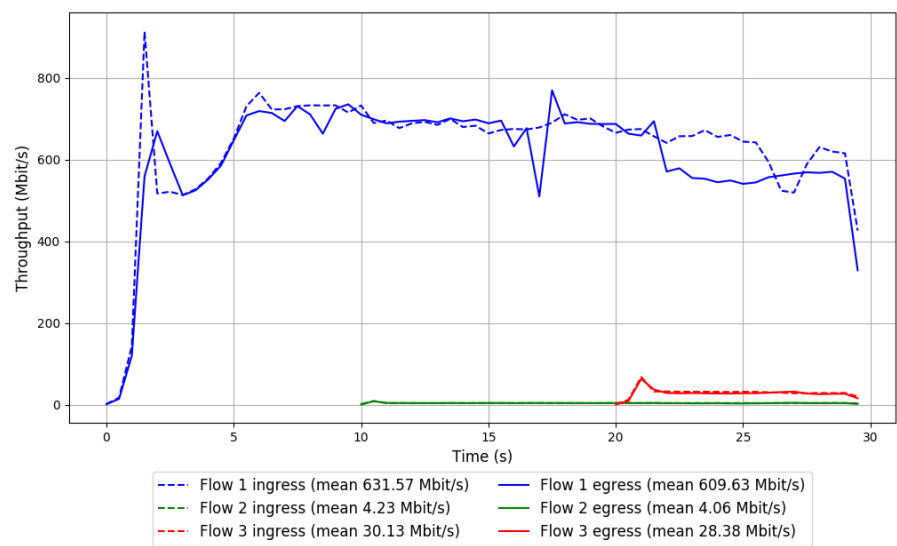
-- Flow 3:

Average throughput: 28.38 Mbit/s

95th percentile per-packet one-way delay: 182.824 ms

Loss rate: 6.96%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 20:47:32

End at: 2017-11-21 20:48:02

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.10 Mbit/s

95th percentile per-packet one-way delay: 177.069 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 568.86 Mbit/s

95th percentile per-packet one-way delay: 176.889 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 6.32 Mbit/s

95th percentile per-packet one-way delay: 176.670 ms

Loss rate: 2.14%

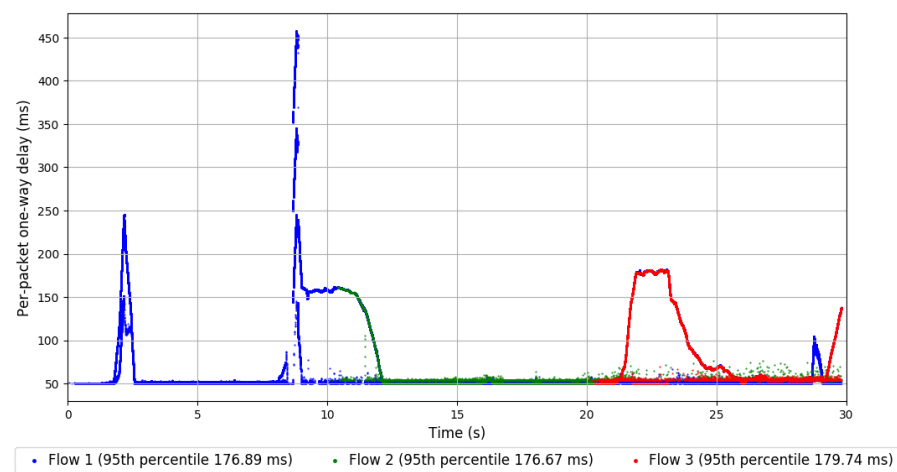
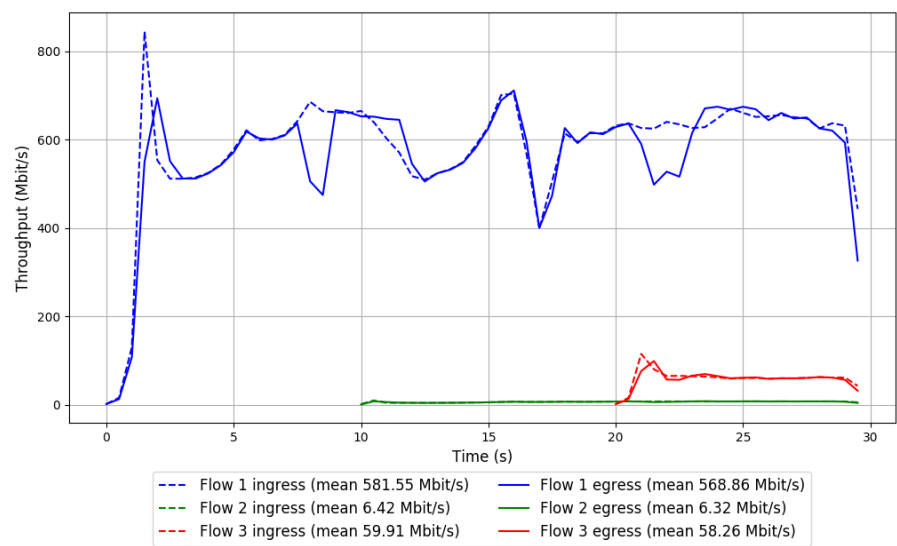
-- Flow 3:

Average throughput: 58.26 Mbit/s

95th percentile per-packet one-way delay: 179.740 ms

Loss rate: 3.83%

Run 7: Report of PCC — Data Link

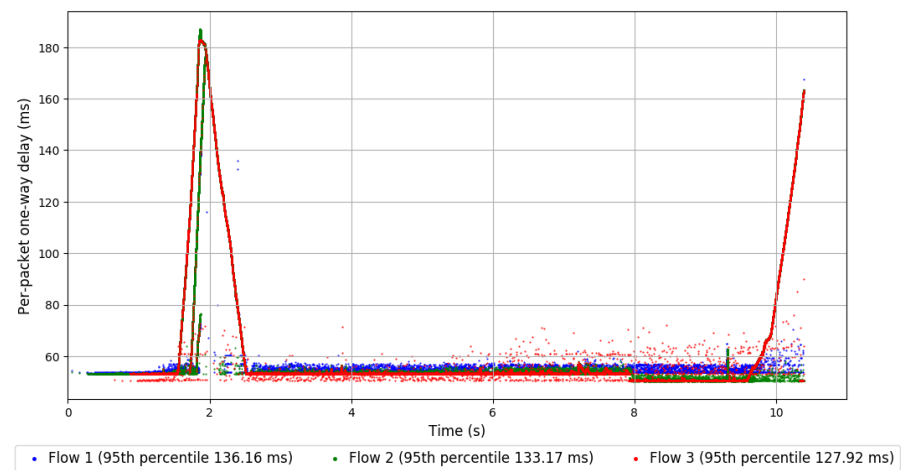
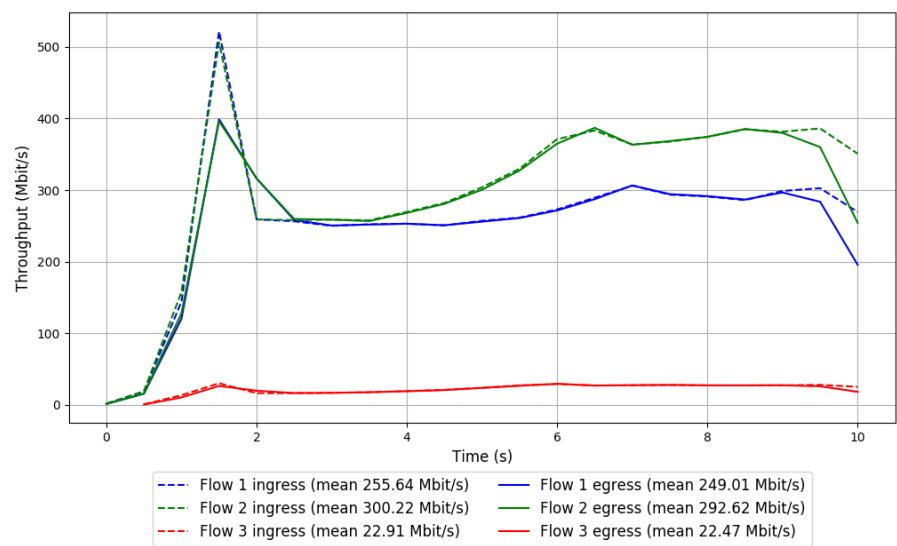


Run 8: Statistics of PCC

Start at: 2017-11-21 20:59:31

End at: 2017-11-21 21:00:01

Run 8: Report of PCC — Data Link

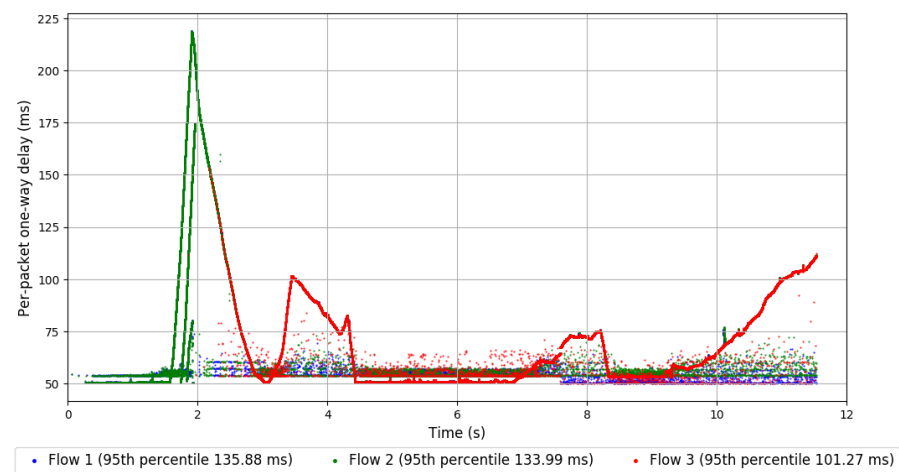
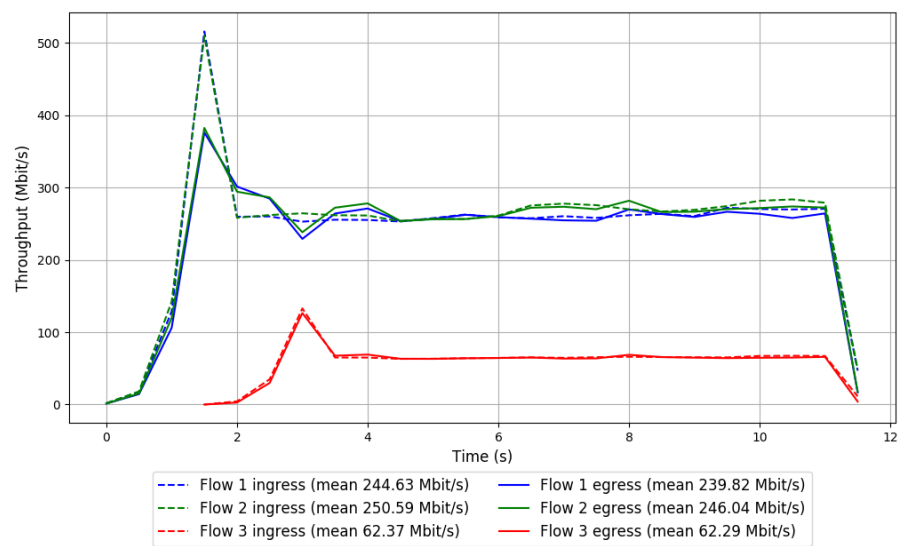


Run 9: Statistics of PCC

Start at: 2017-11-21 21:11:13

End at: 2017-11-21 21:11:43

Run 9: Report of PCC — Data Link

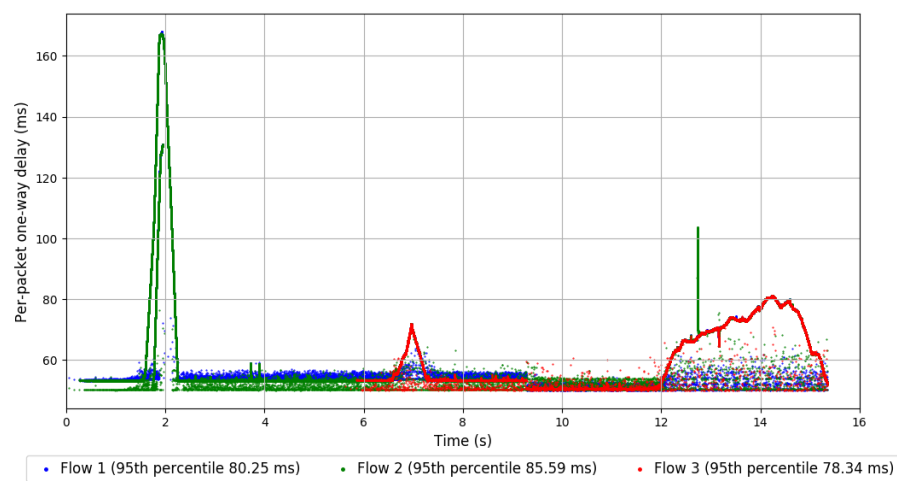
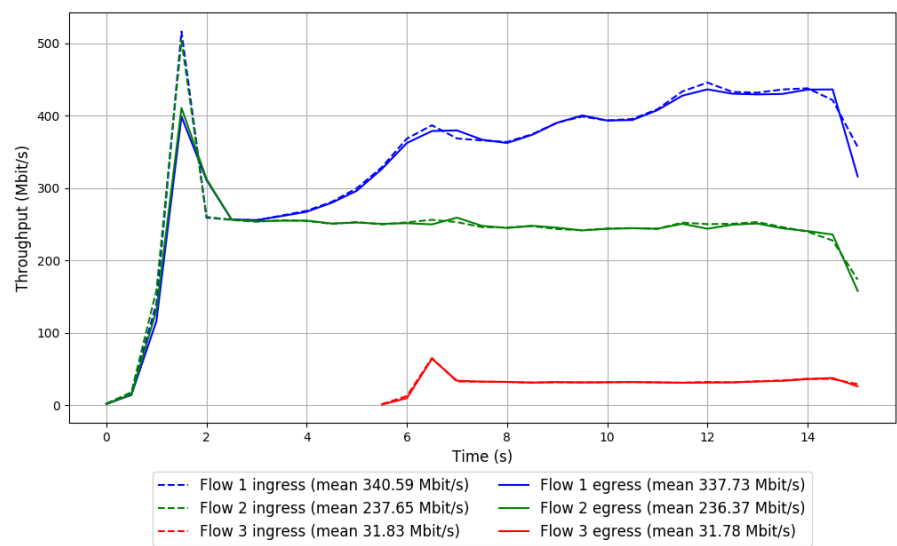


Run 10: Statistics of PCC

Start at: 2017-11-21 21:22:55

End at: 2017-11-21 21:23:25

Run 10: Report of PCC — Data Link

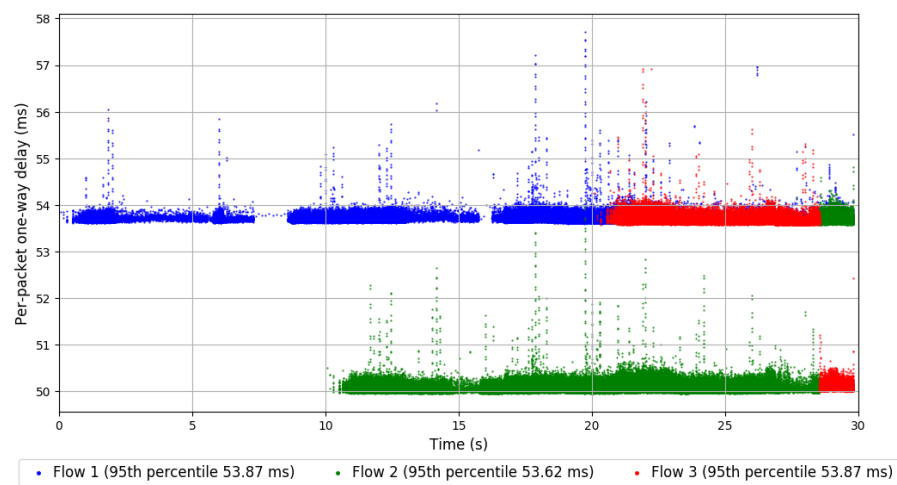
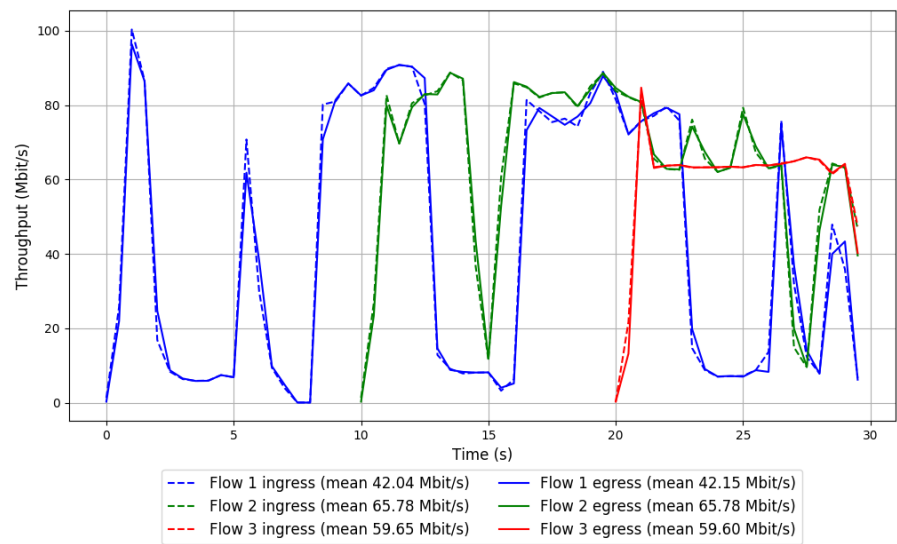


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 19:30:40
End at: 2017-11-21 19:31:10

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.27 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 42.15 Mbit/s
95th percentile per-packet one-way delay: 53.867 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 65.78 Mbit/s
95th percentile per-packet one-way delay: 53.615 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 53.871 ms
Loss rate: 1.17%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 19:42:52

End at: 2017-11-21 19:43:22

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.47 Mbit/s

95th percentile per-packet one-way delay: 53.228 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 61.64 Mbit/s

95th percentile per-packet one-way delay: 53.198 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 69.06 Mbit/s

95th percentile per-packet one-way delay: 50.755 ms

Loss rate: 0.48%

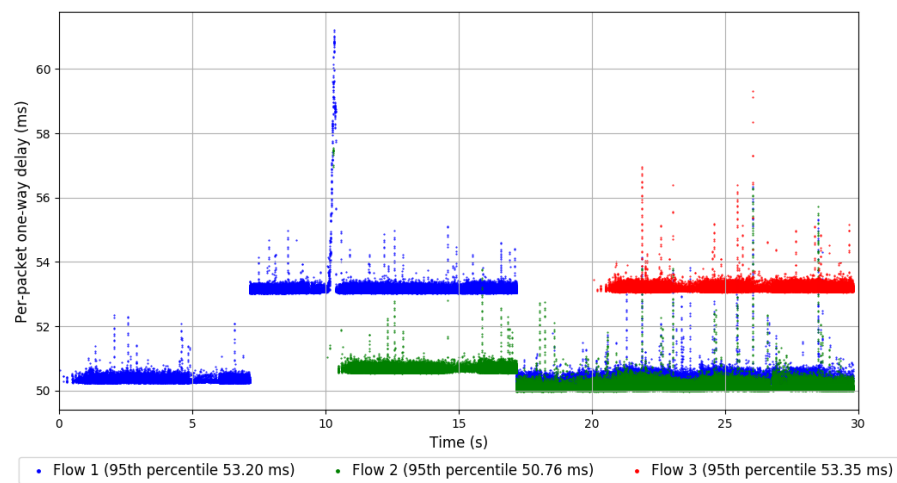
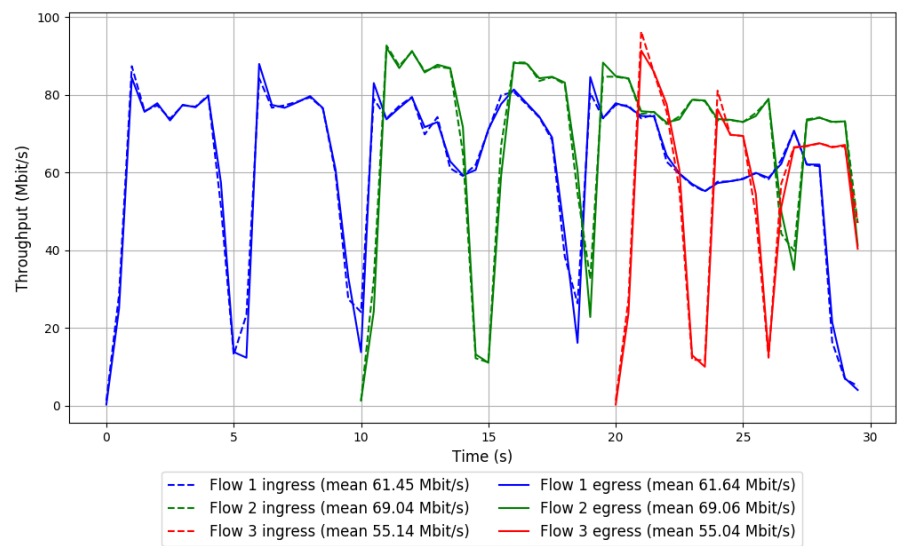
-- Flow 3:

Average throughput: 55.04 Mbit/s

95th percentile per-packet one-way delay: 53.351 ms

Loss rate: 1.25%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 19:54:36

End at: 2017-11-21 19:55:06

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.98 Mbit/s

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

Loss rate: 0.80%

-- Flow 1:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 53.844 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.85%

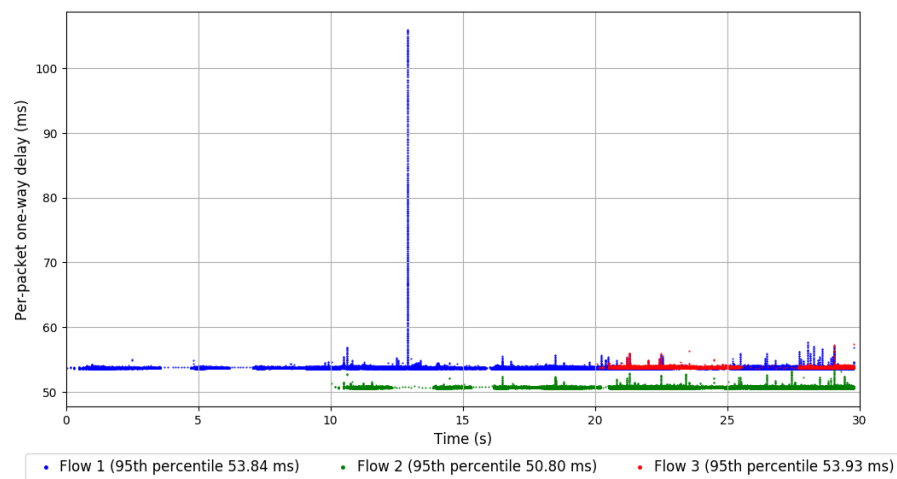
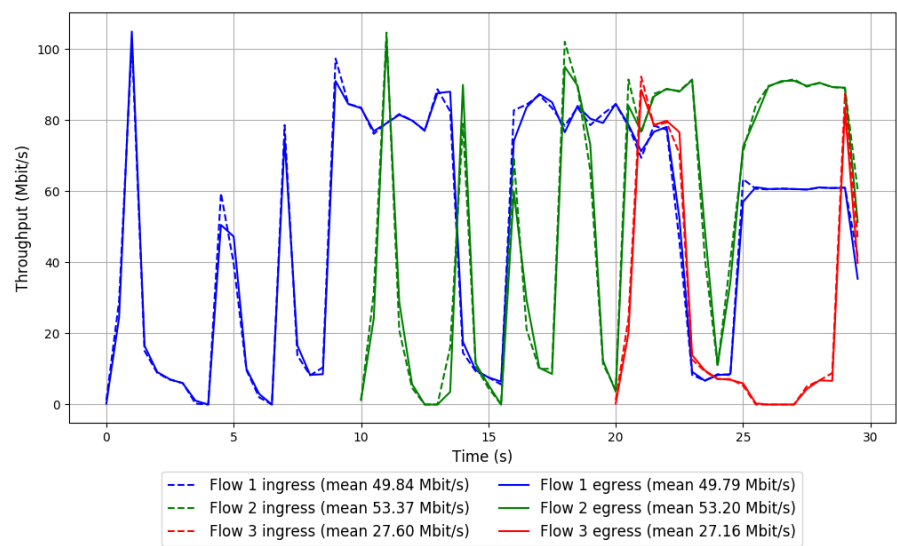
-- Flow 3:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 53.929 ms

Loss rate: 2.65%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 20:06:12

End at: 2017-11-21 20:06:42

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.68 Mbit/s

95th percentile per-packet one-way delay: 53.824 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 53.830 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.82%

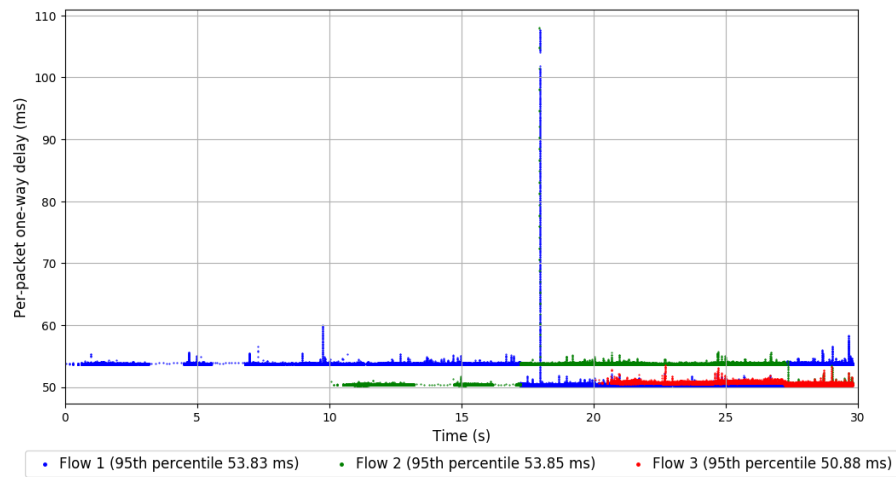
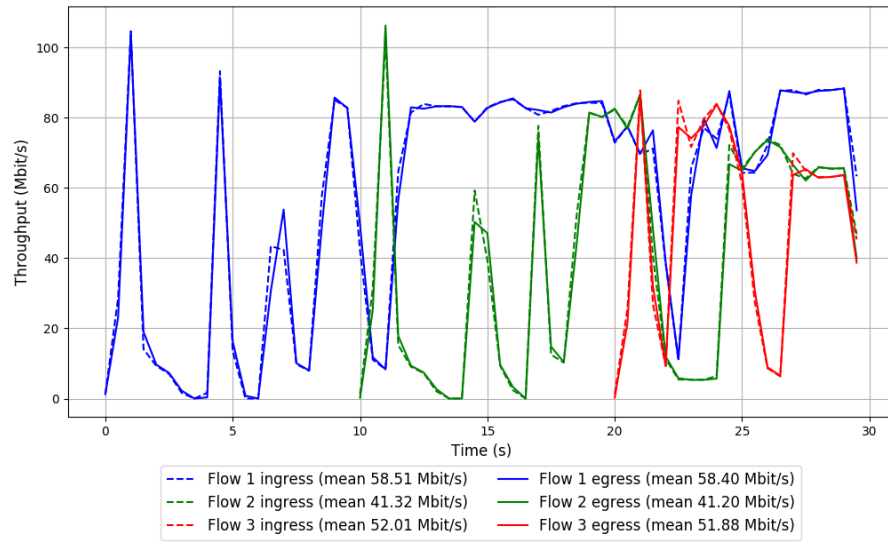
-- Flow 3:

Average throughput: 51.88 Mbit/s

95th percentile per-packet one-way delay: 50.882 ms

Loss rate: 1.29%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 20:17:47

End at: 2017-11-21 20:18:17

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.79 Mbit/s

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

Loss rate: 0.68%

-- Flow 1:

Average throughput: 46.44 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.84%

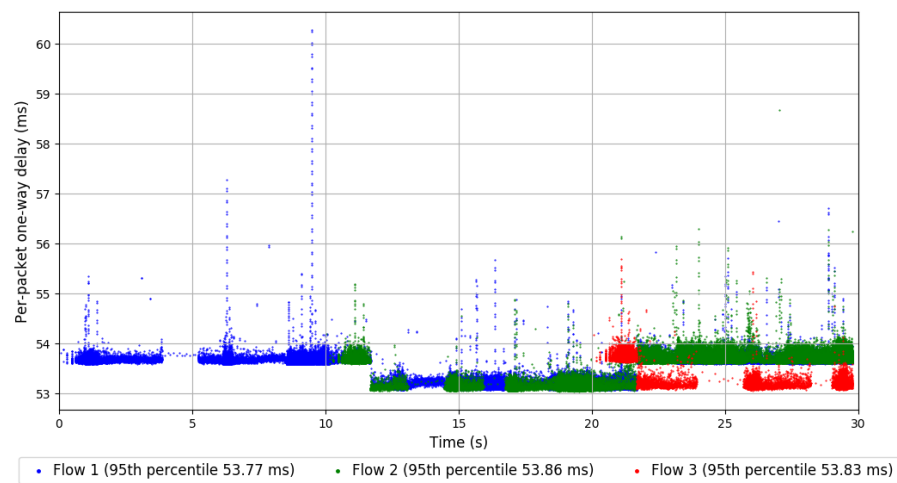
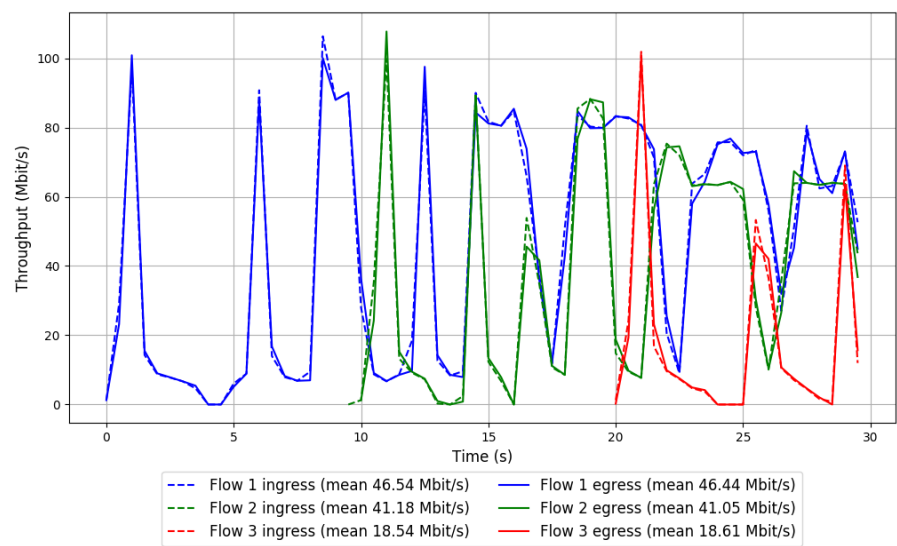
-- Flow 3:

Average throughput: 18.61 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.74%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 20:29:34

End at: 2017-11-21 20:30:04

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.76 Mbit/s

95th percentile per-packet one-way delay: 53.867 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 53.905 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 53.393 ms

Loss rate: 0.07%

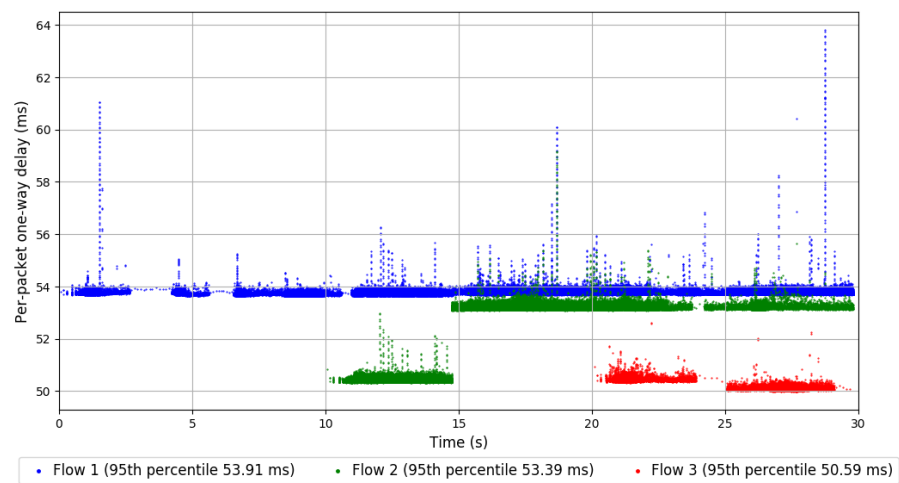
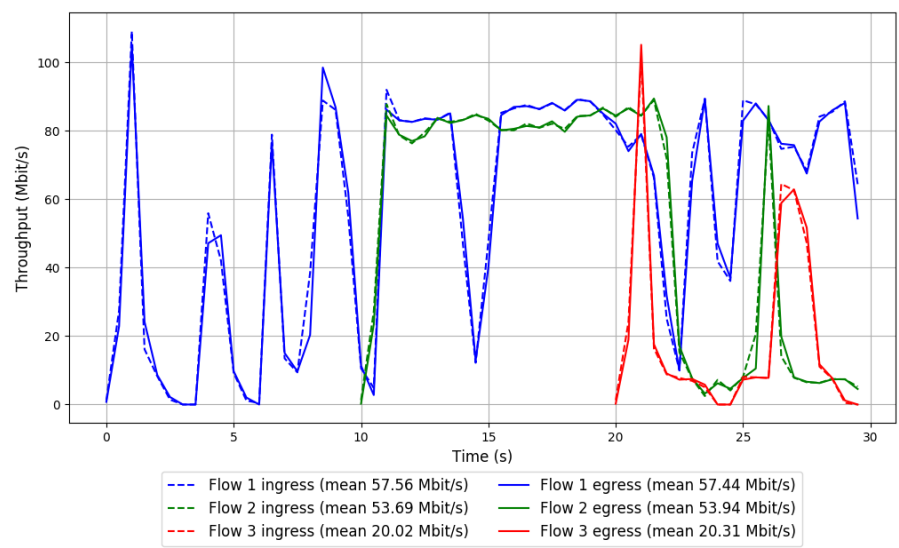
-- Flow 3:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 50.588 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 20:41:52

End at: 2017-11-21 20:42:22

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.27 Mbit/s

95th percentile per-packet one-way delay: 53.154 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 50.298 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 57.88 Mbit/s

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

Loss rate: 0.07%

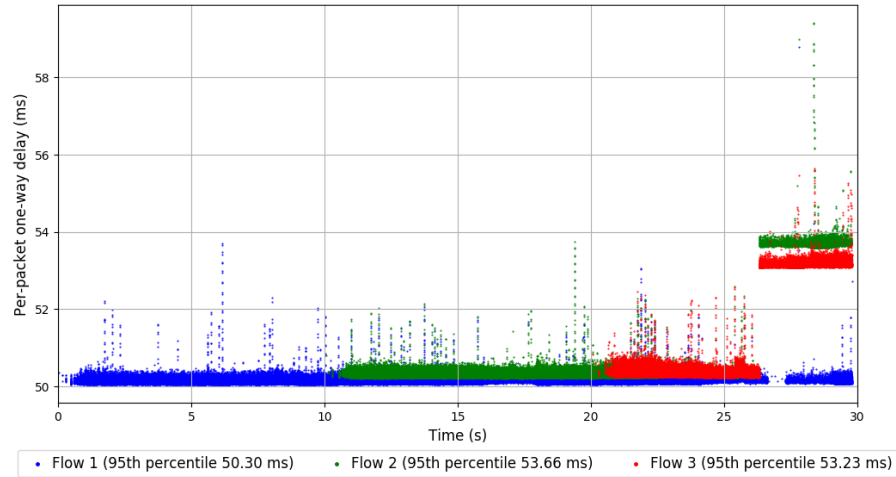
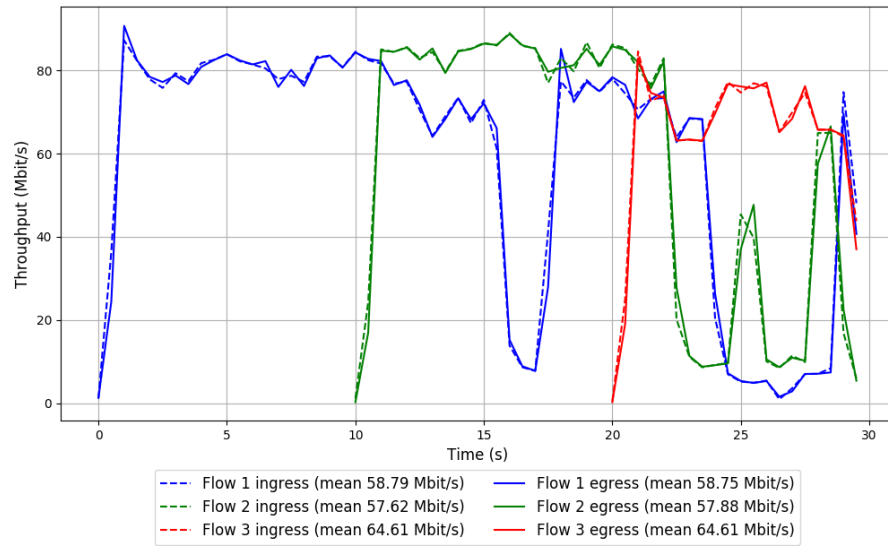
-- Flow 3:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 53.234 ms

Loss rate: 1.06%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 20:54:20

End at: 2017-11-21 20:54:50

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.50 Mbit/s

95th percentile per-packet one-way delay: 53.083 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 53.123 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 56.47 Mbit/s

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

Loss rate: 0.78%

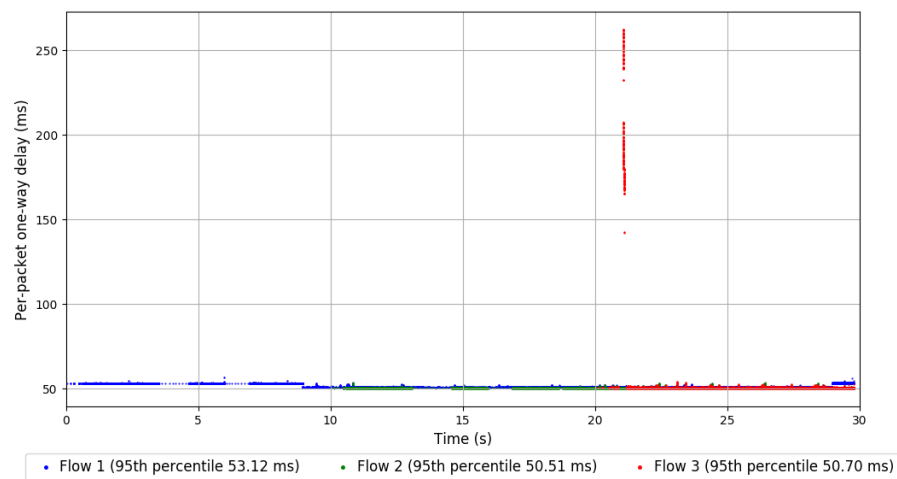
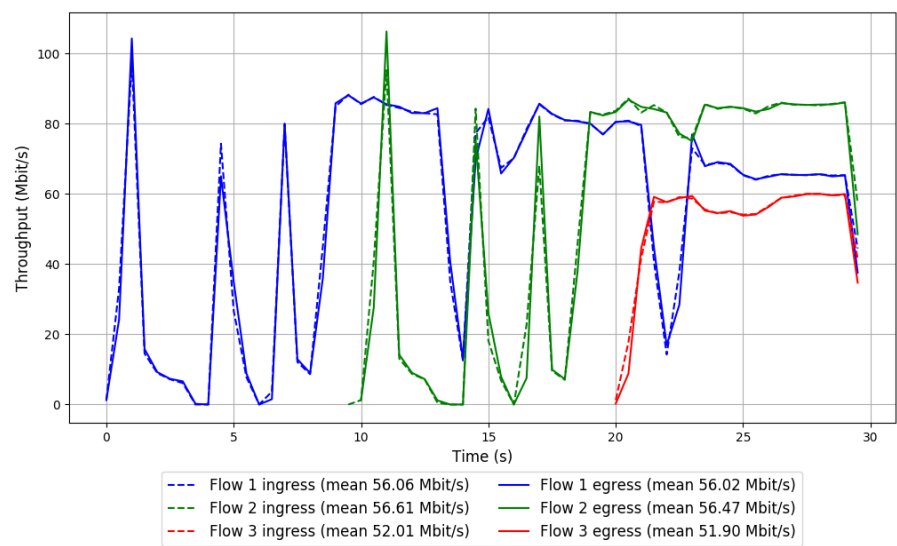
-- Flow 3:

Average throughput: 51.90 Mbit/s

95th percentile per-packet one-way delay: 50.696 ms

Loss rate: 1.25%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 21:06:01

End at: 2017-11-21 21:06:31

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.08 Mbit/s

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

Loss rate: 0.55%

-- Flow 1:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 50.642 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 0.25%

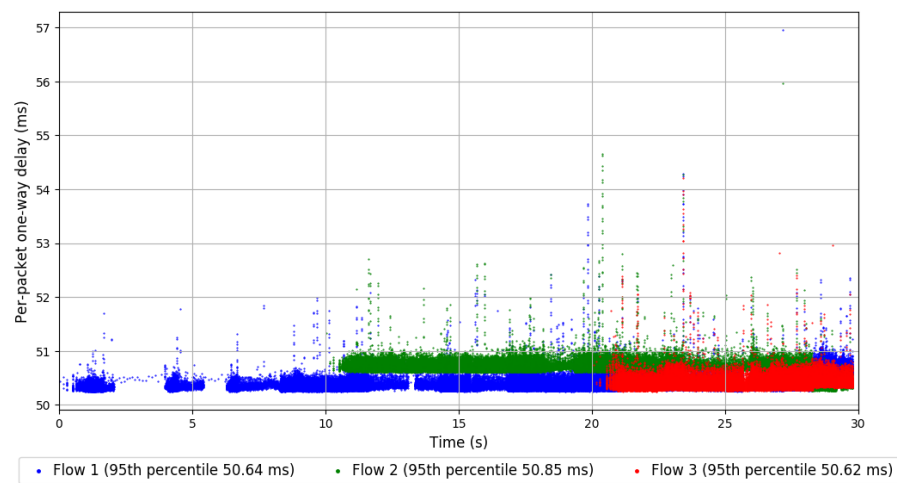
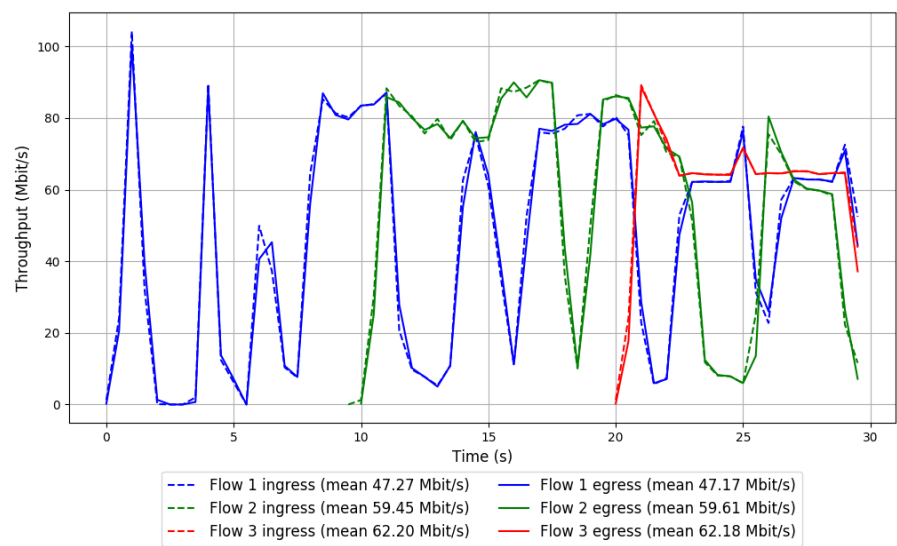
-- Flow 3:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 50.619 ms

Loss rate: 1.09%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 21:17:39

End at: 2017-11-21 21:18:09

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.65 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 40.73 Mbit/s

95th percentile per-packet one-way delay: 50.477 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 66.26 Mbit/s

95th percentile per-packet one-way delay: 53.240 ms

Loss rate: 0.50%

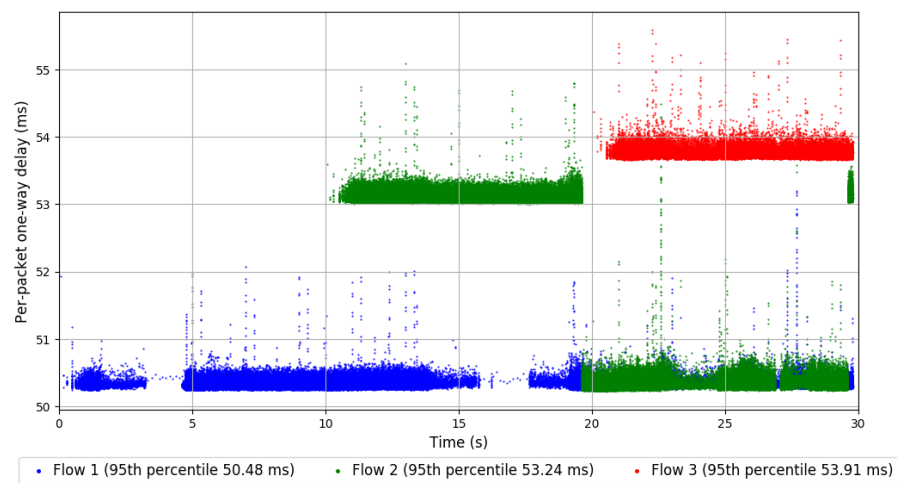
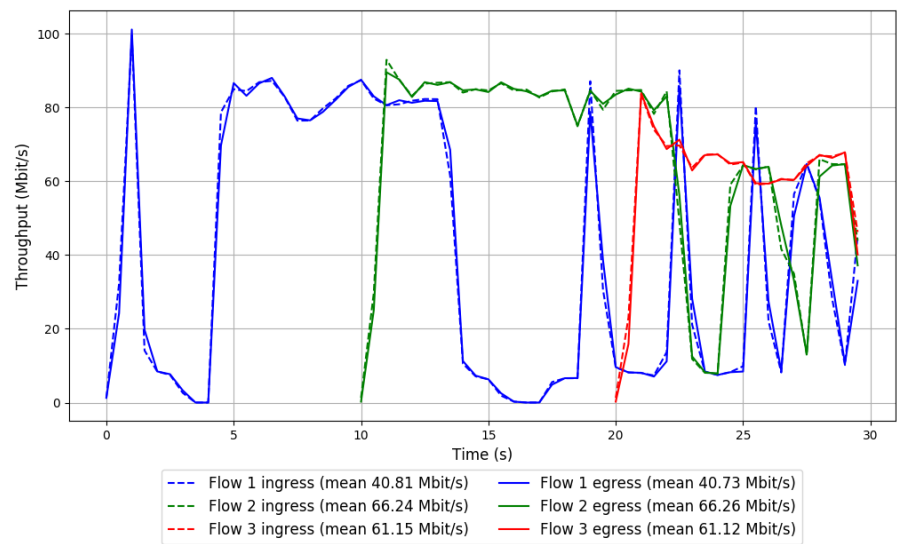
-- Flow 3:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 1.11%

Run 10: Report of QUIC Cubic — Data Link

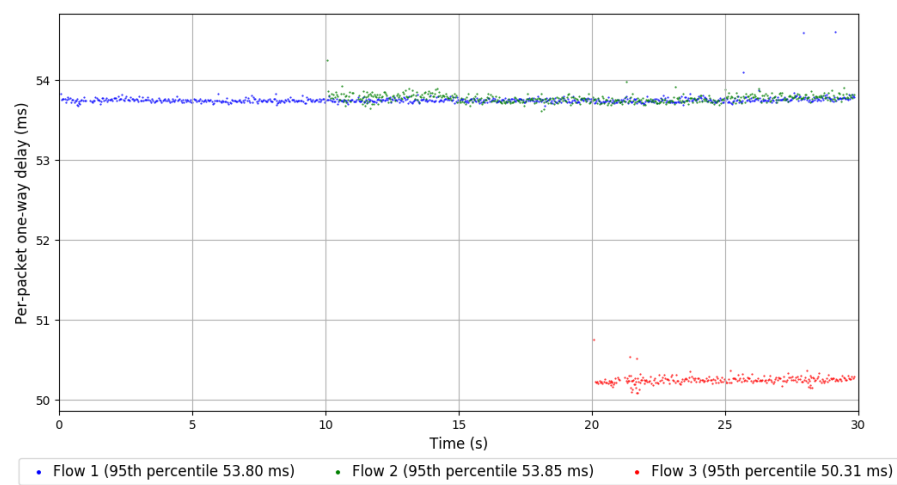
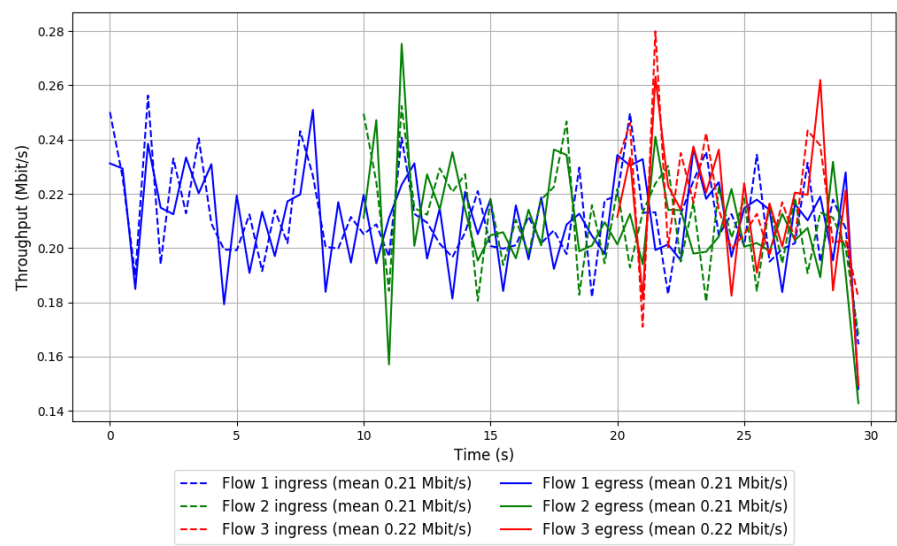


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 19:39:35
End at: 2017-11-21 19:40:05

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 53.826 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.850 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 1.10%
```

Run 1: Report of SReAM — Data Link

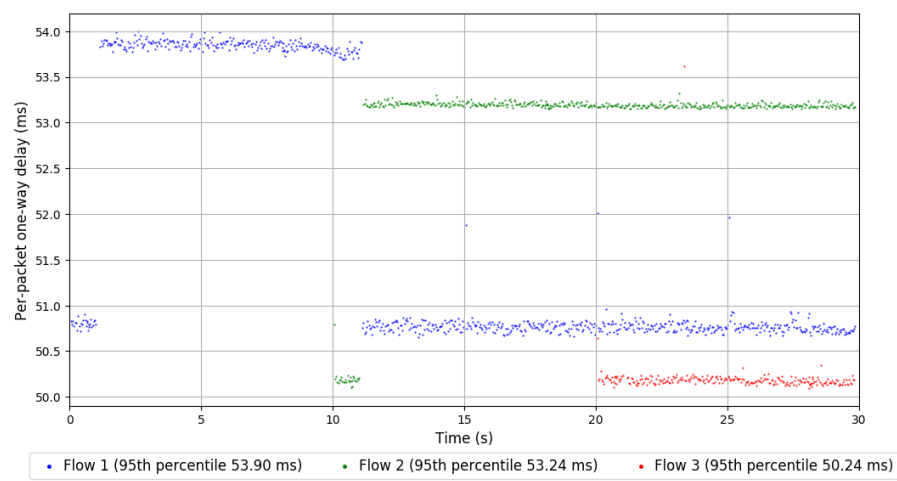
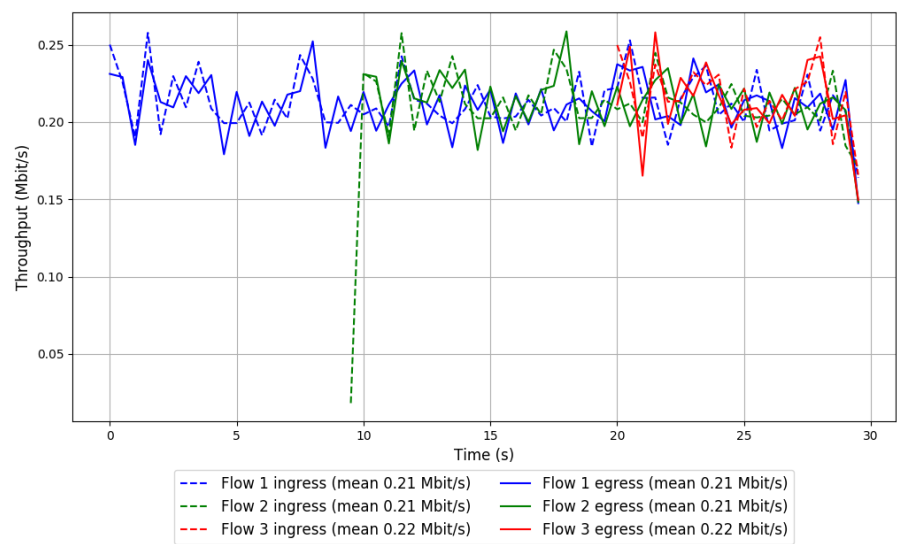


```
Run 2: Statistics of SCReAM

Start at: 2017-11-21 19:51:08
End at: 2017-11-21 19:51:38

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.876 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.896 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.238 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.237 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-21 20:02:48

End at: 2017-11-21 20:03:18

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.844 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.825 ms

Loss rate: 0.42%

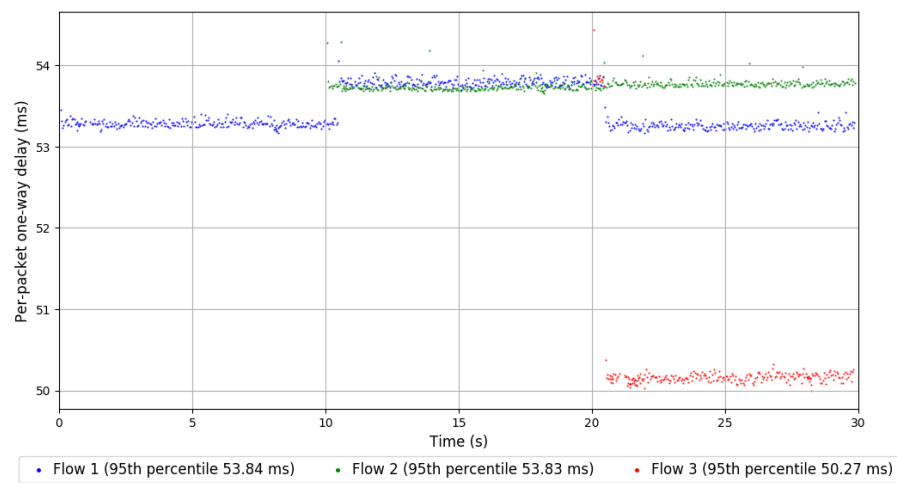
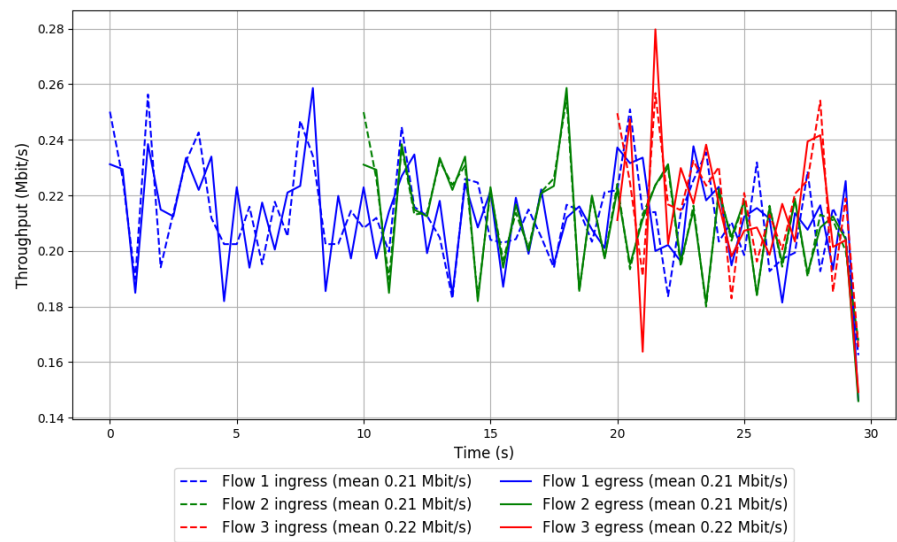
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 1.11%

Run 3: Report of SReAM — Data Link

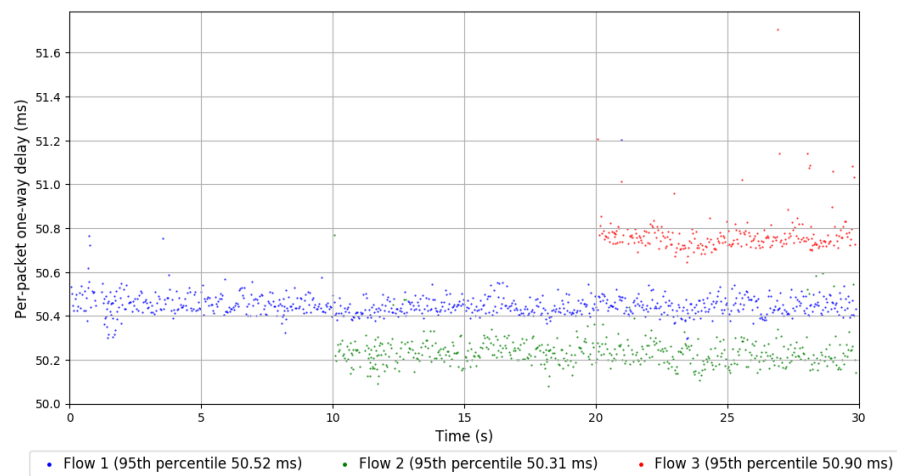
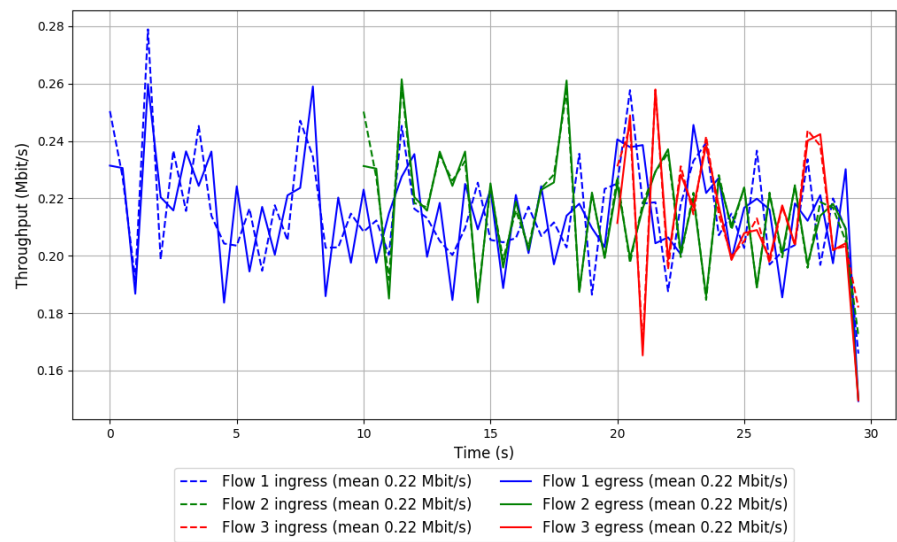


```
Run 4: Statistics of SCReAM

Start at: 2017-11-21 20:14:24
End at: 2017-11-21 20:14:54

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.776 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.521 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.313 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.896 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-21 20:26:12

End at: 2017-11-21 20:26:42

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.53%

-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.63%

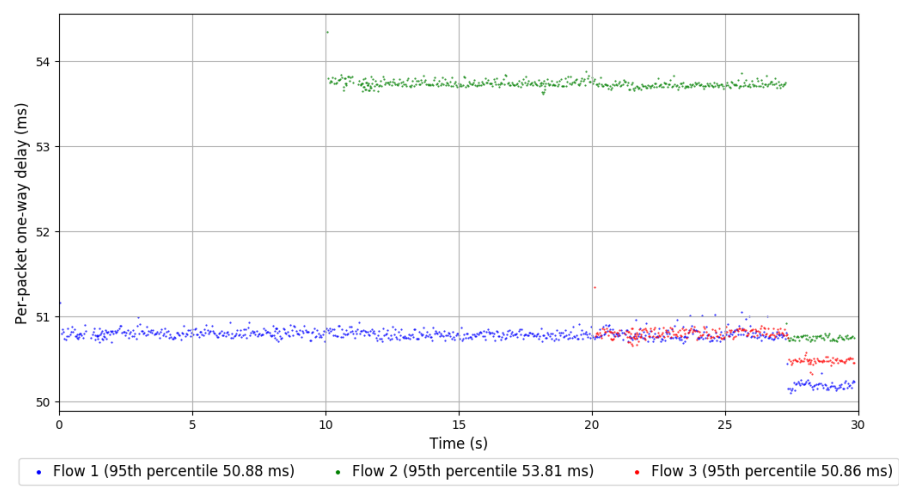
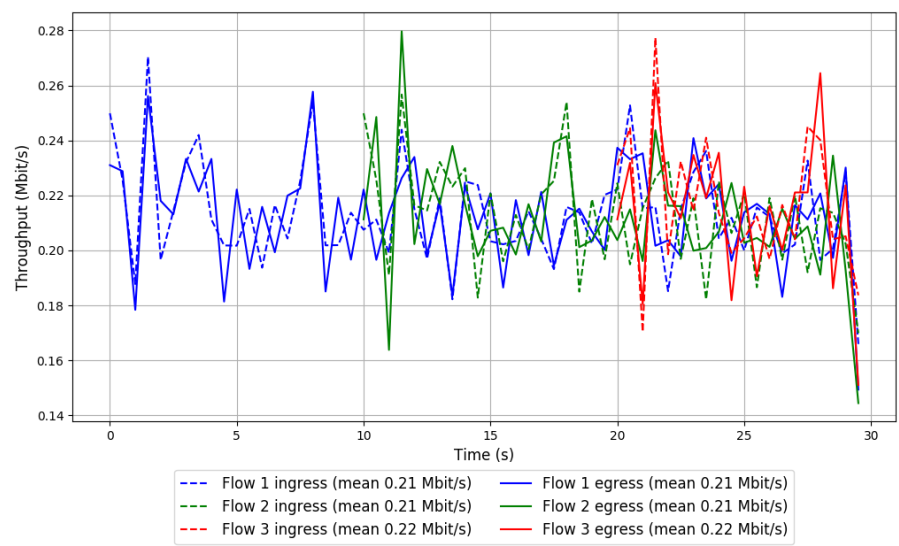
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.863 ms

Loss rate: 1.12%

Run 5: Report of SReAM — Data Link

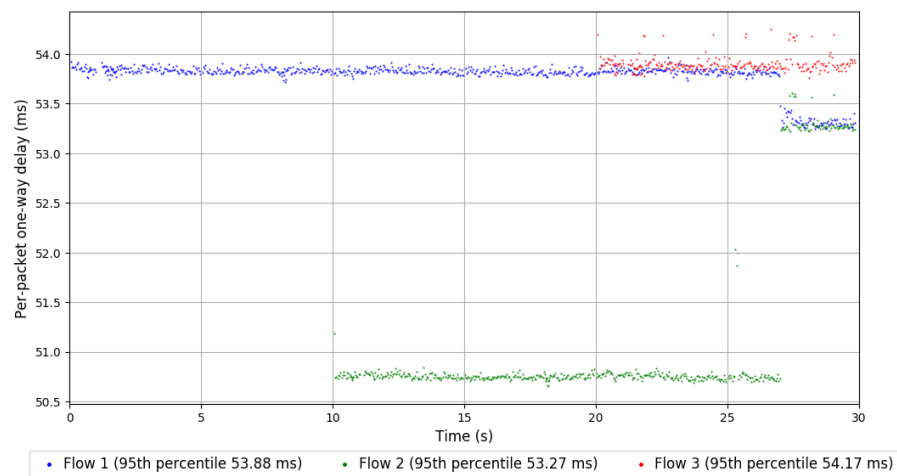
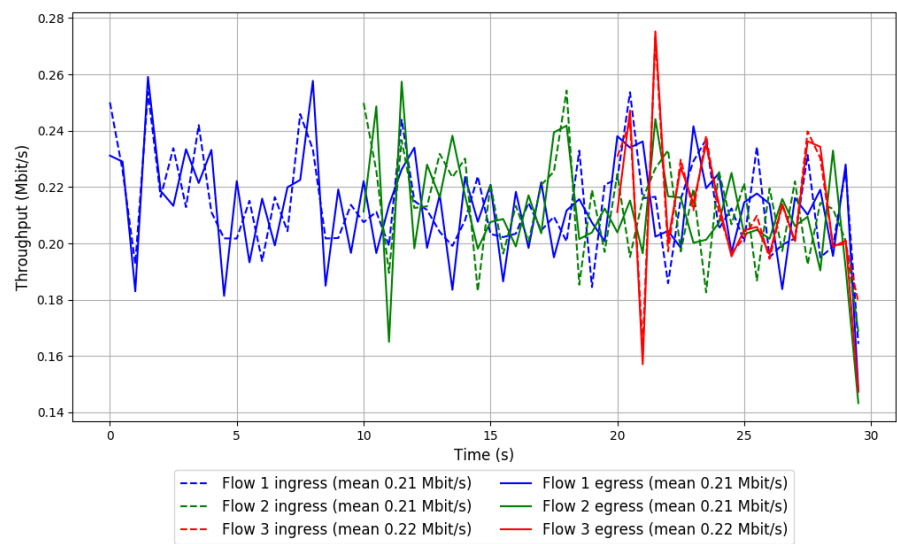


```
Run 6: Statistics of SCReAM

Start at: 2017-11-21 20:38:32
End at: 2017-11-21 20:39:02

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.879 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.275 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.169 ms
Loss rate: 1.11%
```

Run 6: Report of SReAM — Data Link

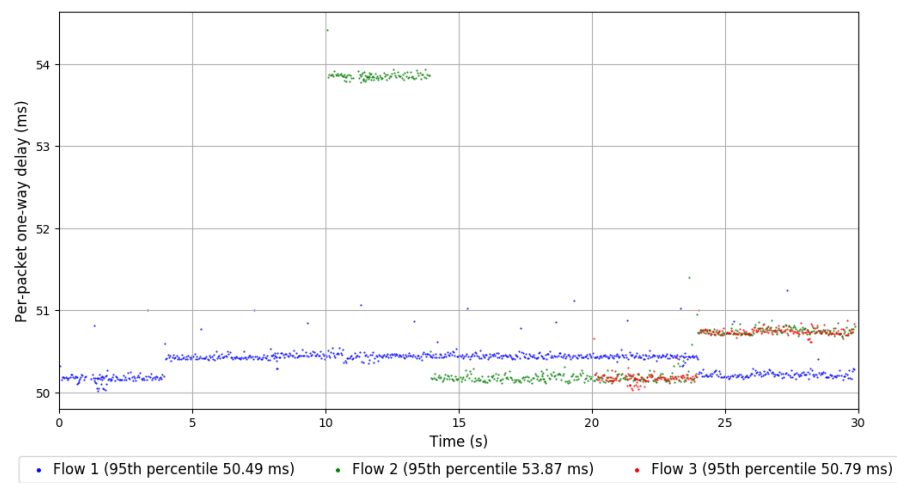
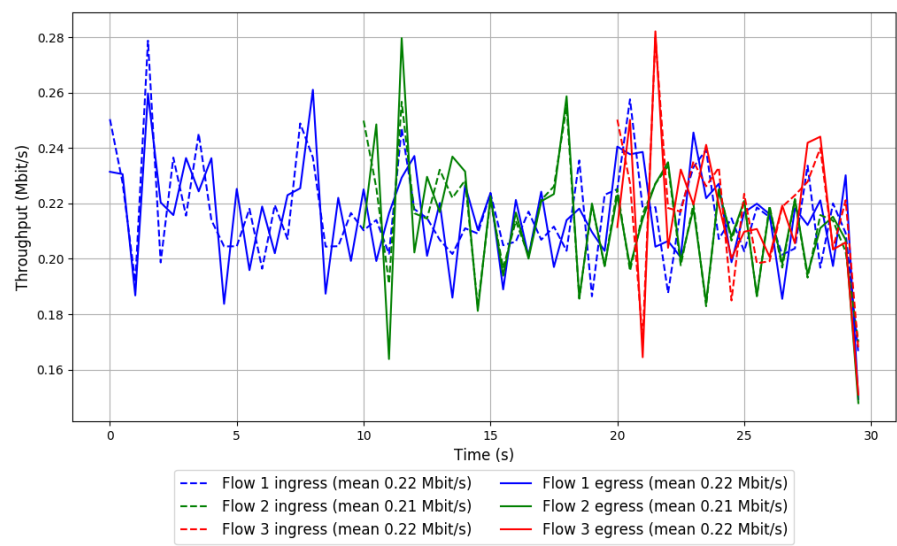


```
Run 7: Statistics of SReAM

Start at: 2017-11-21 20:50:55
End at: 2017-11-21 20:51:25

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.837 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.494 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.874 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.793 ms
Loss rate: 1.11%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-21 21:02:41

End at: 2017-11-21 21:03:11

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.861 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.306 ms

Loss rate: 0.43%

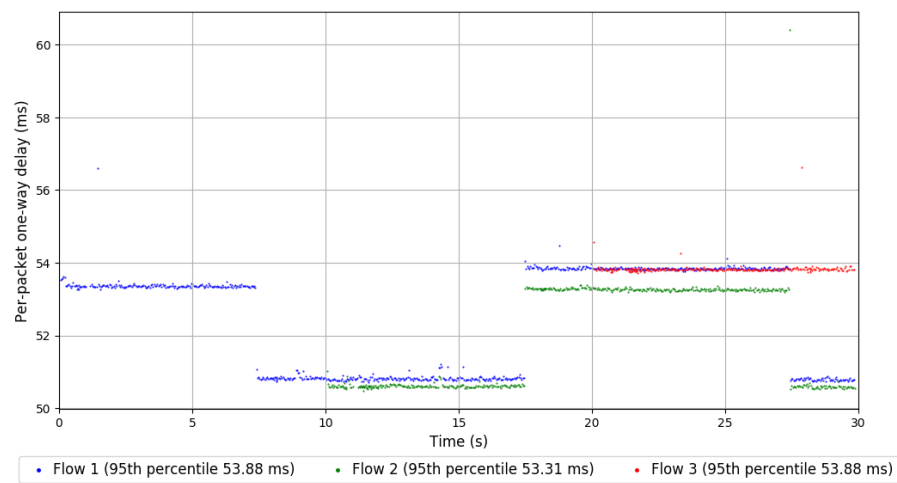
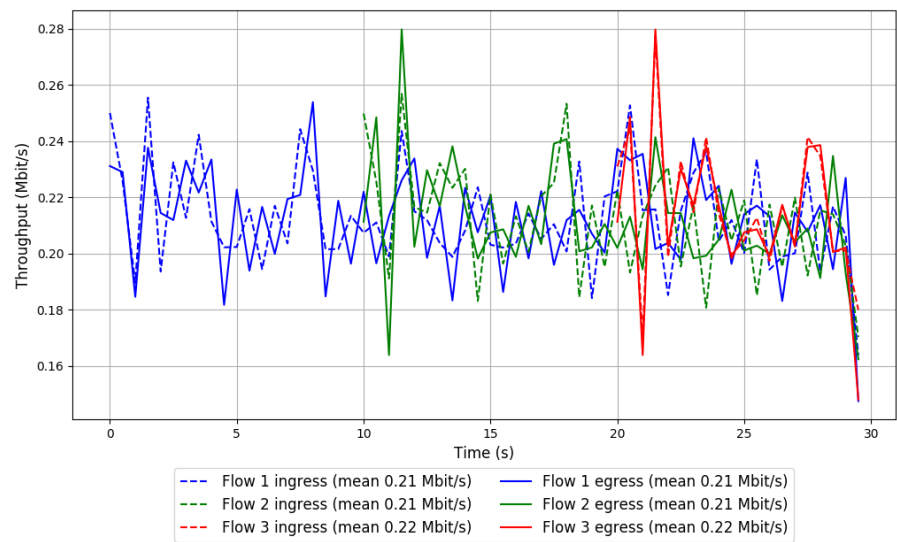
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 1.10%

Run 8: Report of SReAM — Data Link

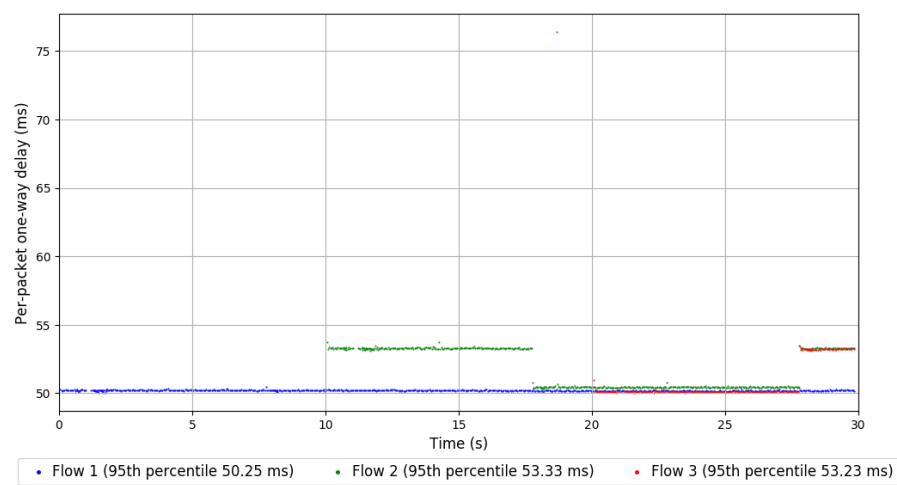
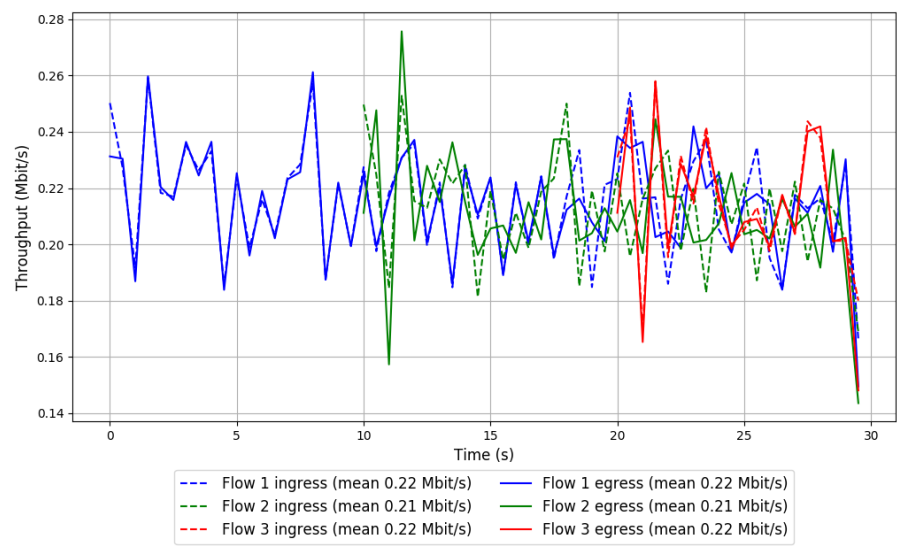


```
Run 9: Statistics of SCReAM

Start at: 2017-11-21 21:14:21
End at: 2017-11-21 21:14:51

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.295 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.252 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.334 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.228 ms
Loss rate: 1.10%
```

Run 9: Report of SReAM — Data Link

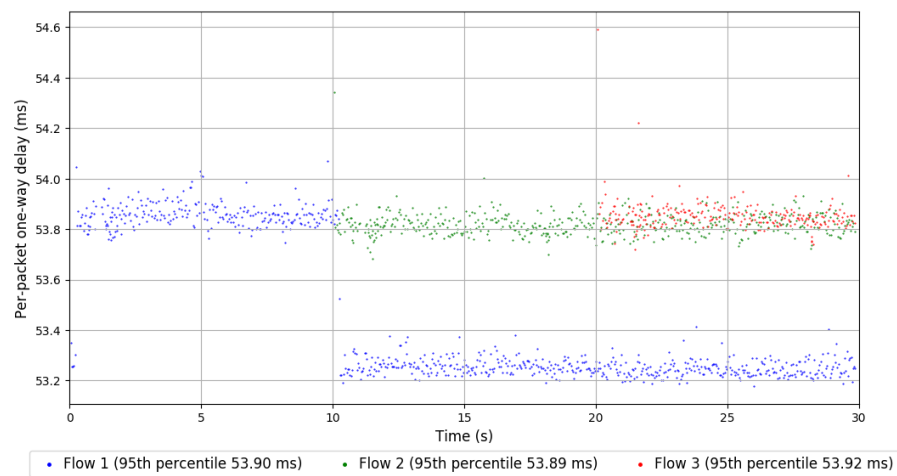
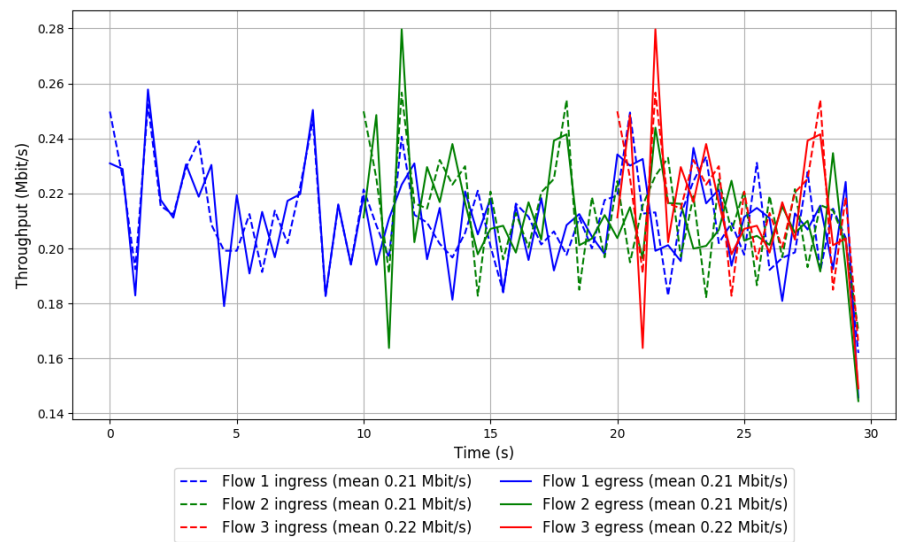


```
Run 10: Statistics of SReAM

Start at: 2017-11-21 21:26:09
End at: 2017-11-21 21:26:39

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 1.10%
```

Run 10: Report of SReAM — Data Link

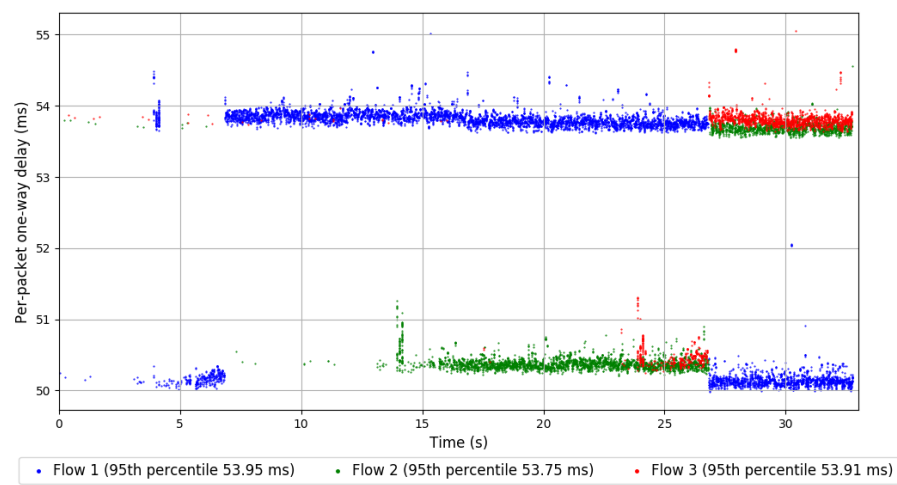
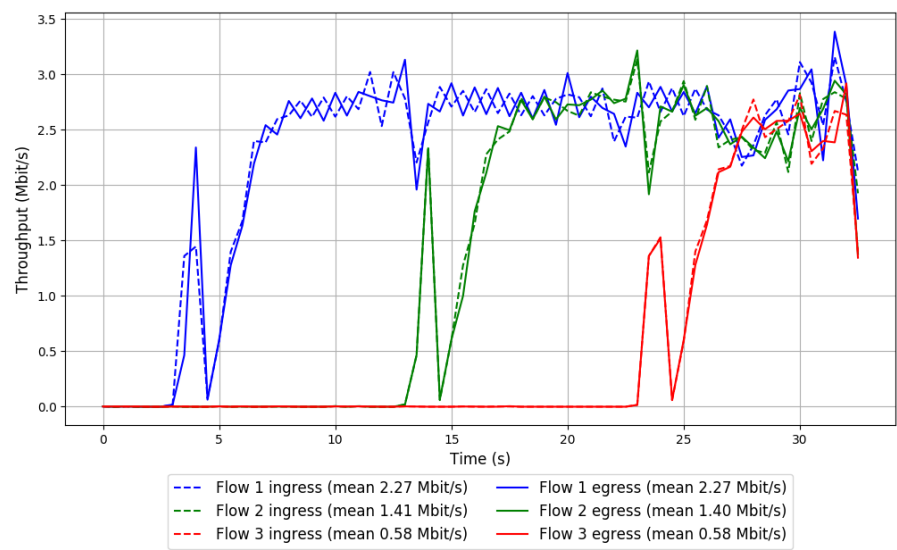


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 19:37:55
End at: 2017-11-21 19:38:25

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.952 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.71%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 19:49:28

End at: 2017-11-21 19:49:58

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

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

Loss rate: 0.61%

-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.78%

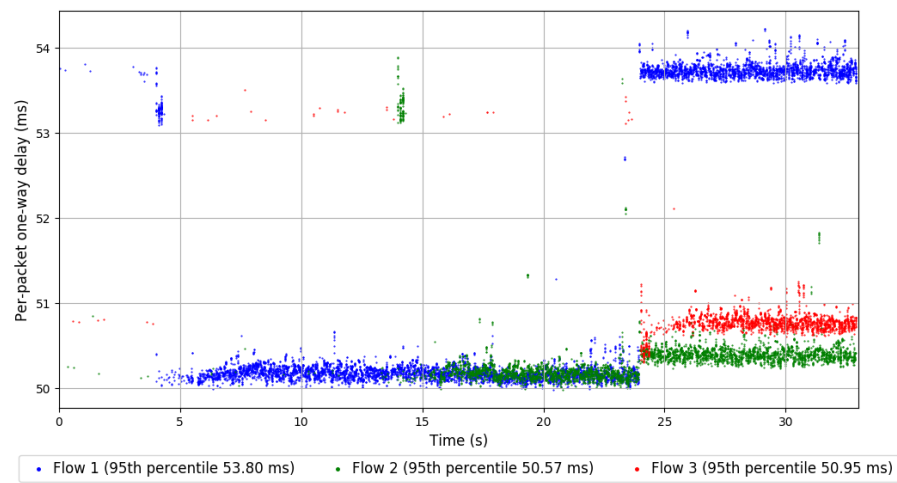
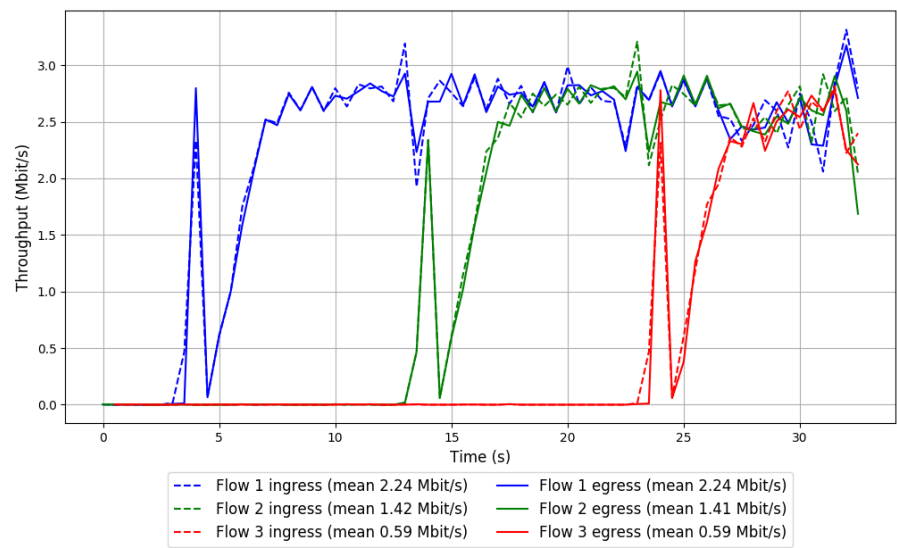
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.948 ms

Loss rate: 1.32%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 20:01:09

End at: 2017-11-21 20:01:39

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

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

Loss rate: 0.57%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.848 ms

Loss rate: 0.62%

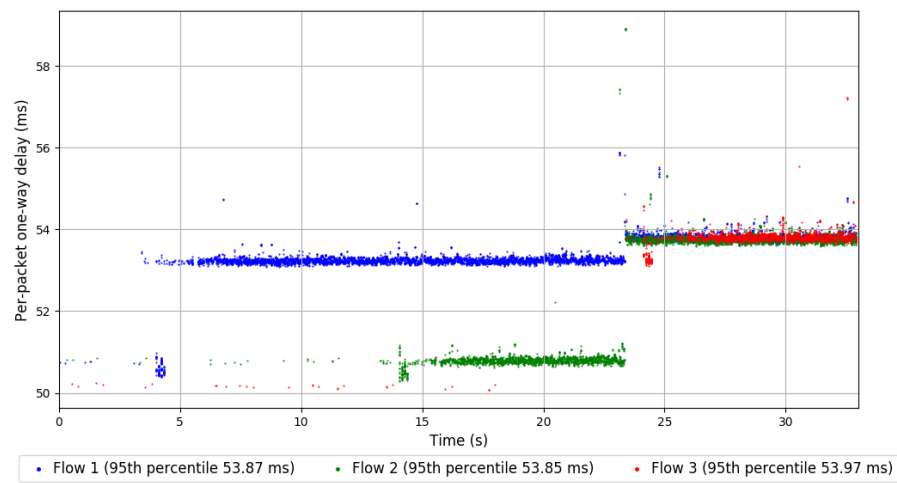
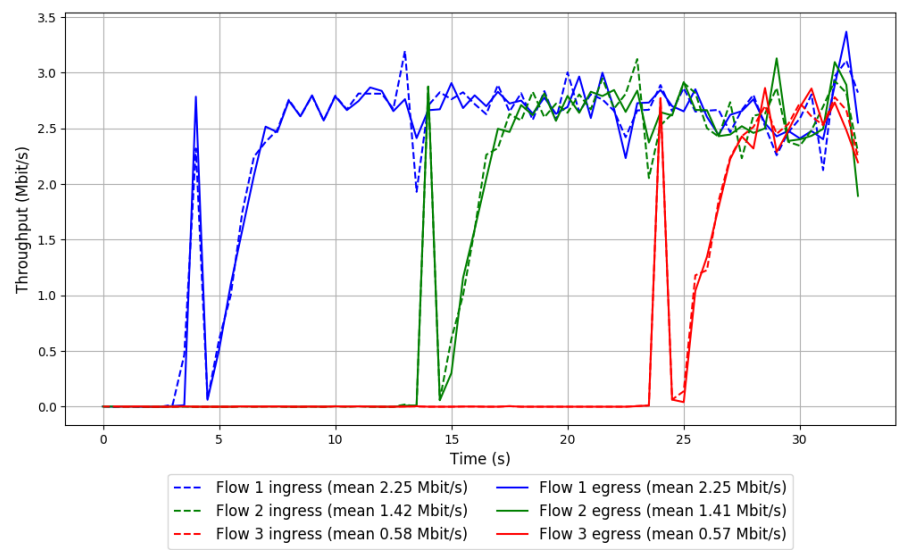
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.966 ms

Loss rate: 1.34%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 20:12:42

End at: 2017-11-21 20:13:12

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.909 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.41 Mbit/s

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

Loss rate: 0.95%

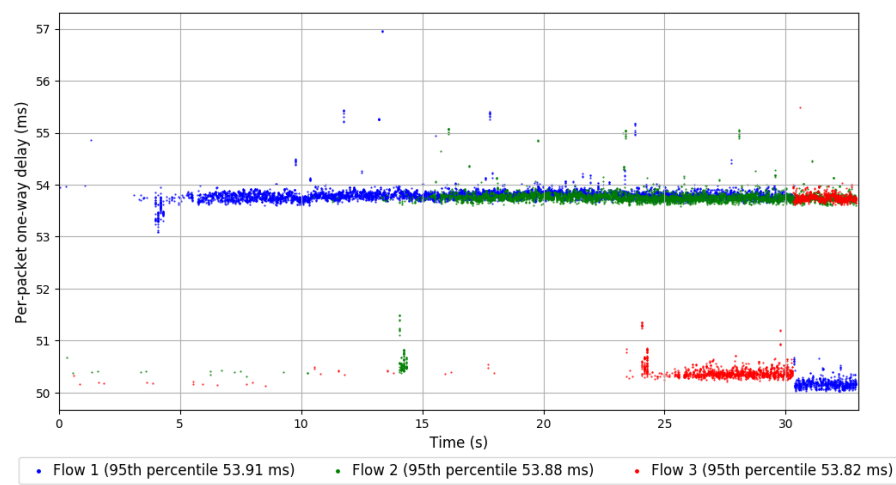
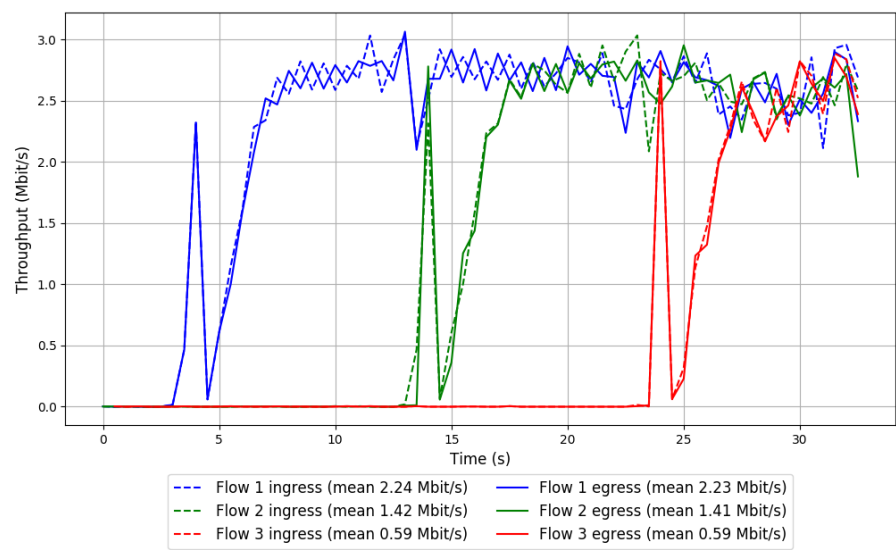
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 1.28%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 20:24:32

End at: 2017-11-21 20:25:02

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.57%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.854 ms

Loss rate: 0.57%

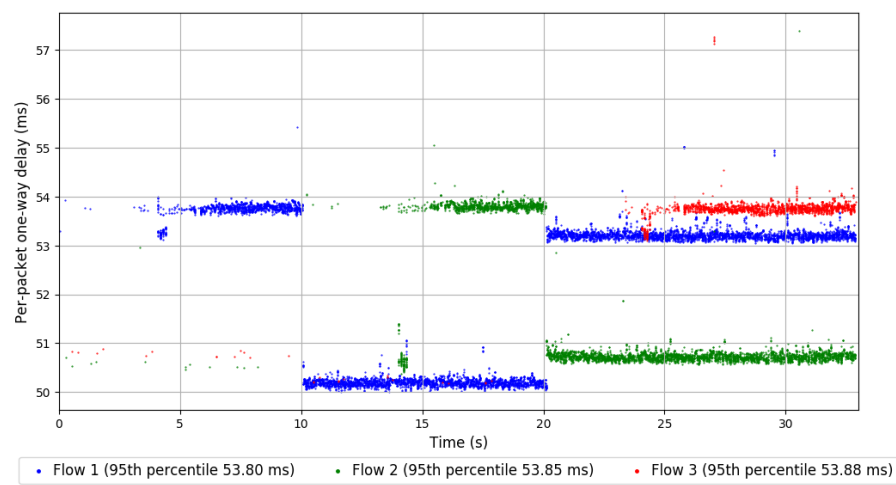
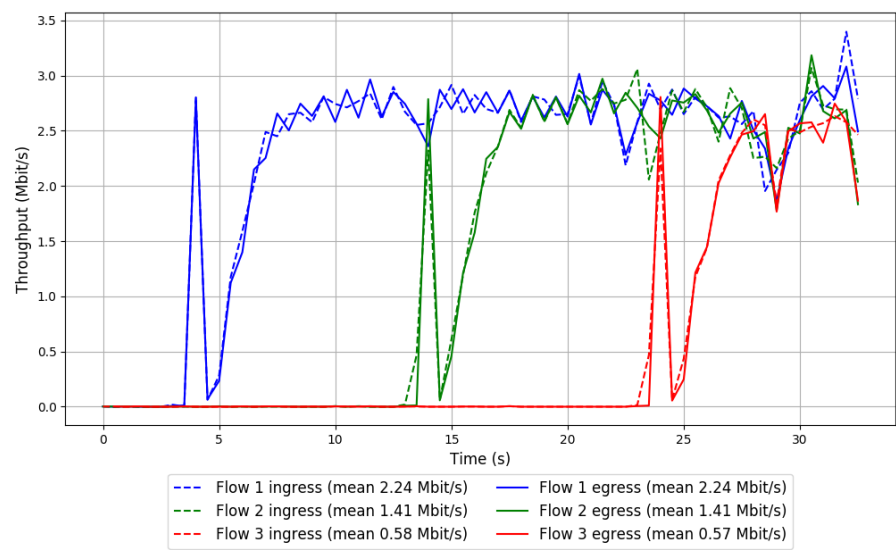
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 2.25%

Run 5: Report of WebRTC media — Data Link

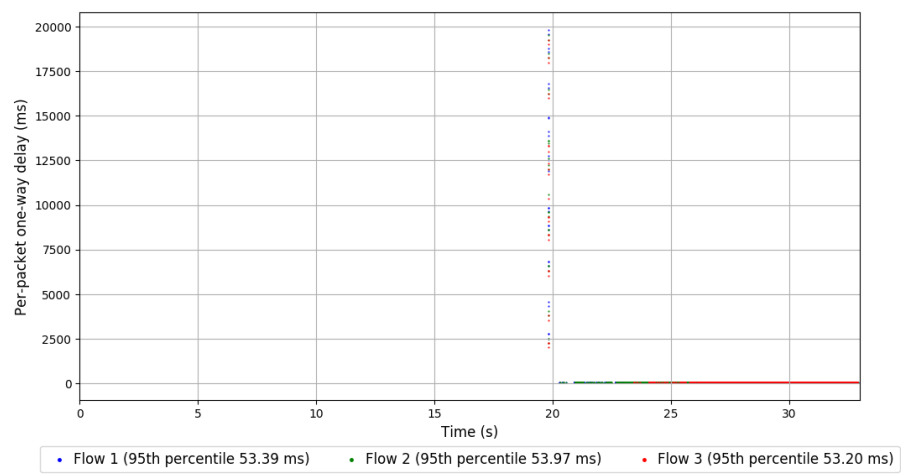
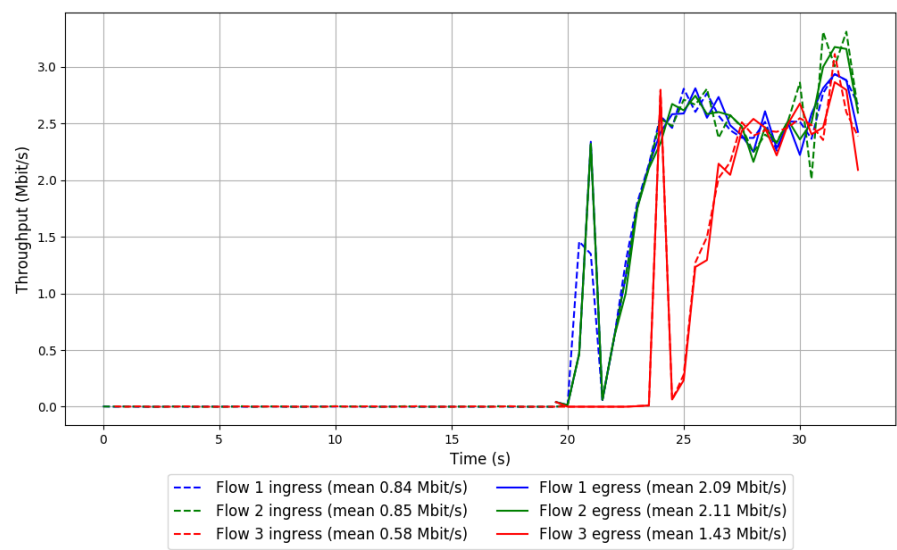


Run 6: Statistics of WebRTC media

Start at: 2017-11-21 20:36:52

End at: 2017-11-21 20:37:22

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 20:49:16

End at: 2017-11-21 20:49:46

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.360 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.961 ms

Loss rate: 0.70%

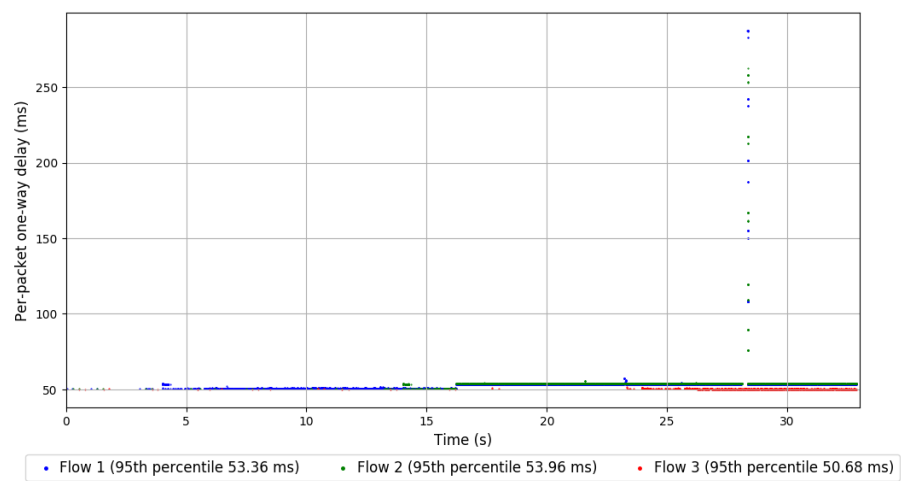
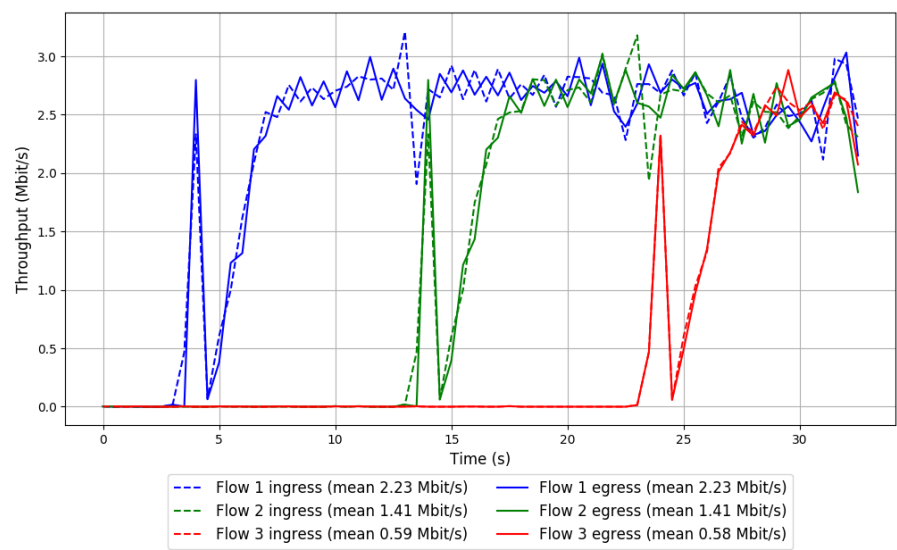
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.681 ms

Loss rate: 1.46%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 21:01:01

End at: 2017-11-21 21:01:31

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

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

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.826 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 0.72%

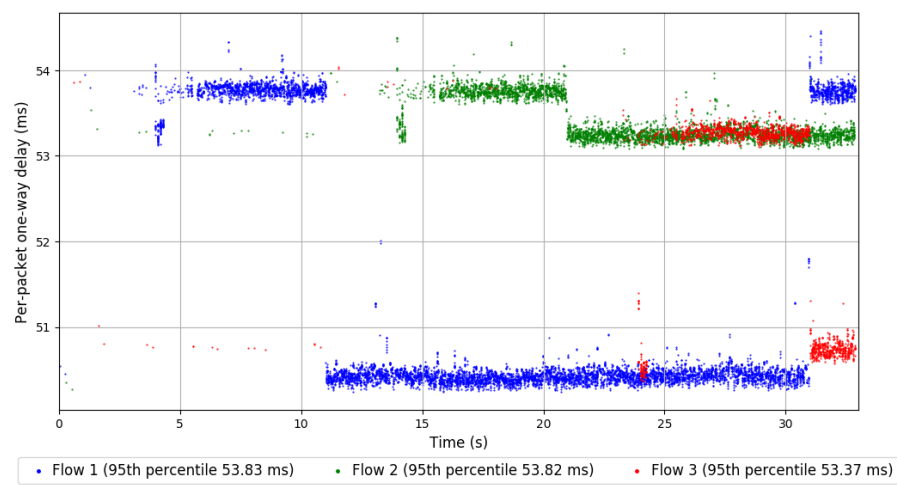
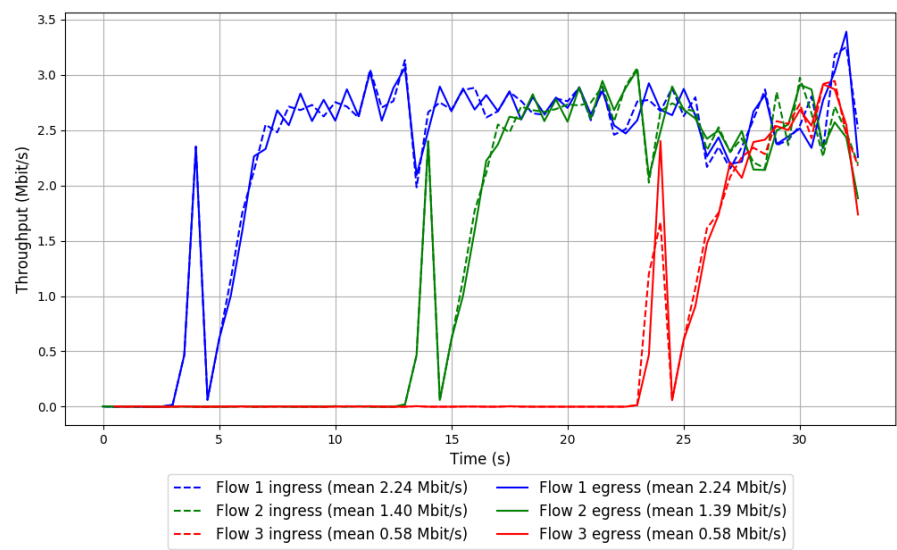
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.372 ms

Loss rate: 1.76%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 21:12:42

End at: 2017-11-21 21:13:12

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.847 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 2.25 Mbit/s

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

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.54%

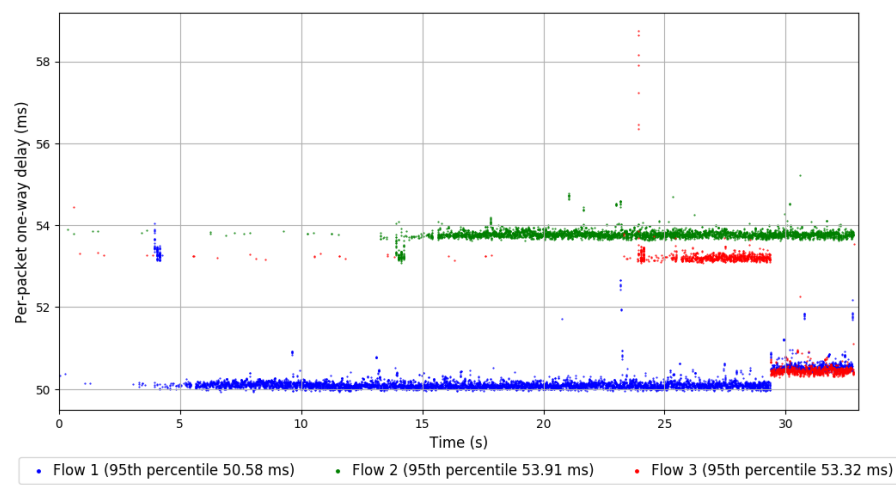
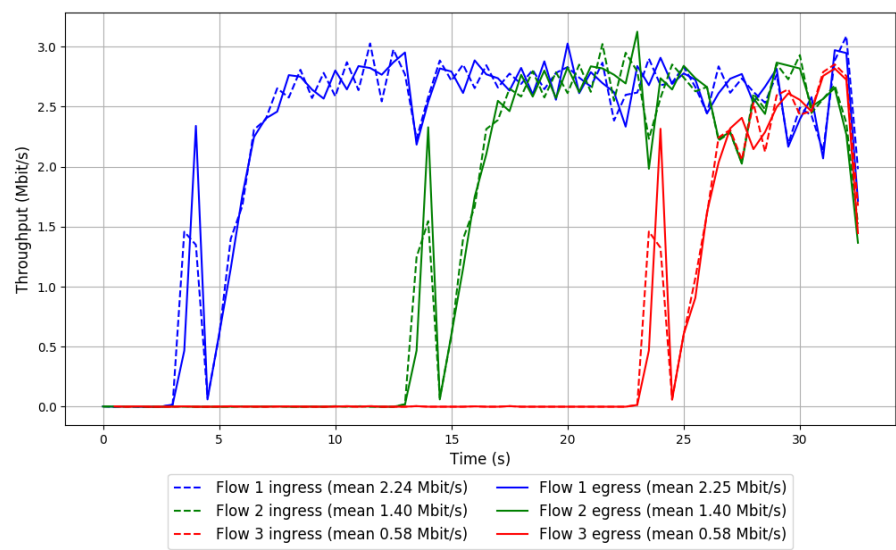
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.324 ms

Loss rate: 1.48%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 21:24:28

End at: 2017-11-21 21:24:58

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 53.853 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.328 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.62%

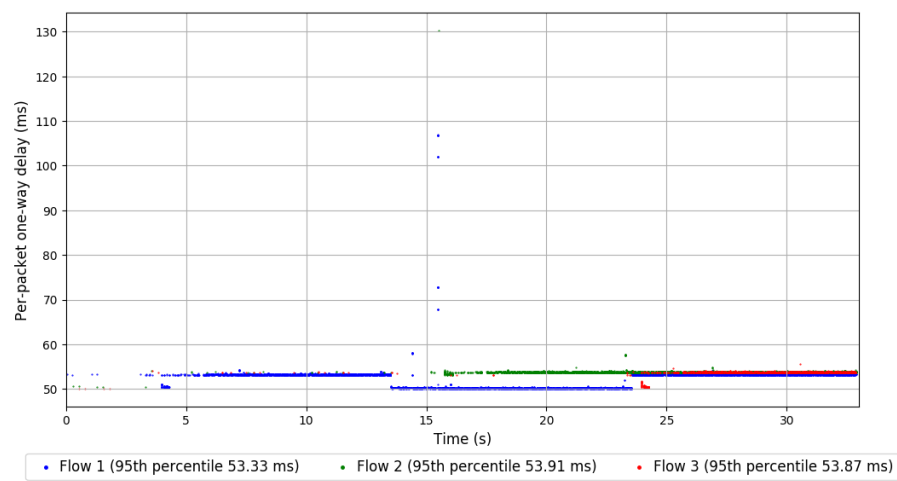
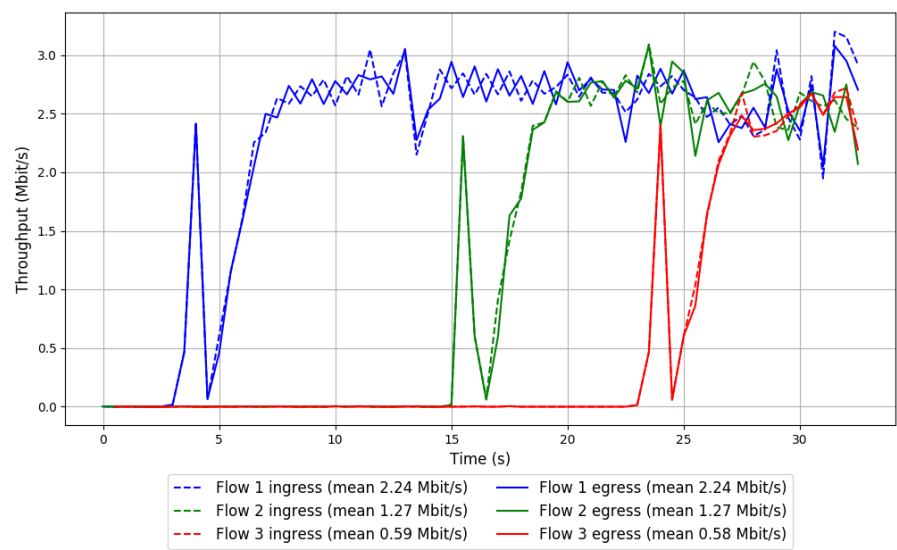
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.874 ms

Loss rate: 1.34%

Run 10: Report of WebRTC media — Data Link

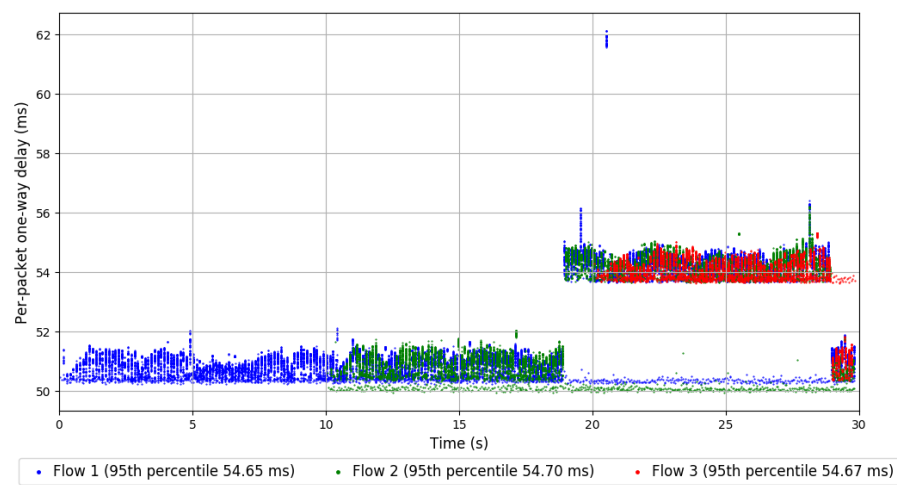
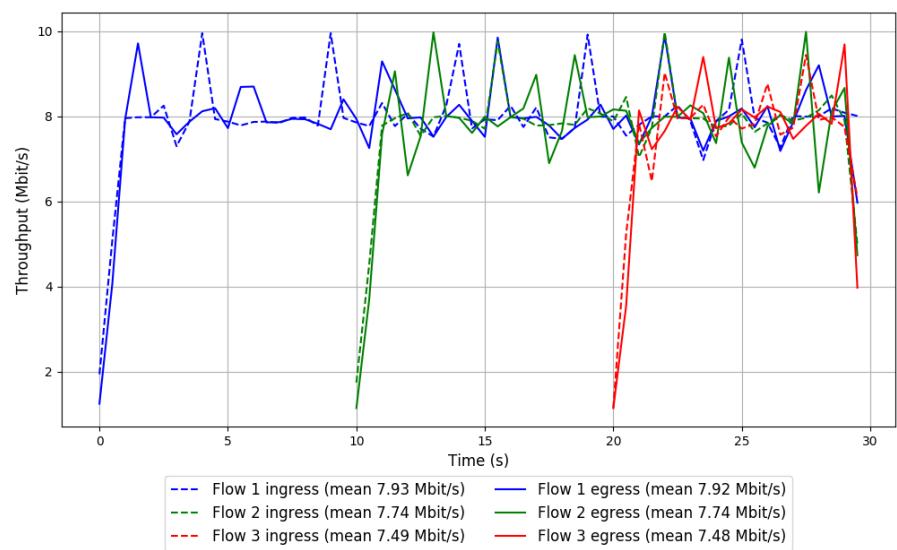


```
Run 1: Statistics of Sprout

Start at: 2017-11-21 19:33:20
End at: 2017-11-21 19:33:50

# Below is generated by plot.py at 2017-11-22 00:00:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 54.673 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 54.651 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 54.703 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 54.672 ms
Loss rate: 1.44%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 19:45:34

End at: 2017-11-21 19:46:04

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 54.028 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 53.921 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.094 ms

Loss rate: 0.64%

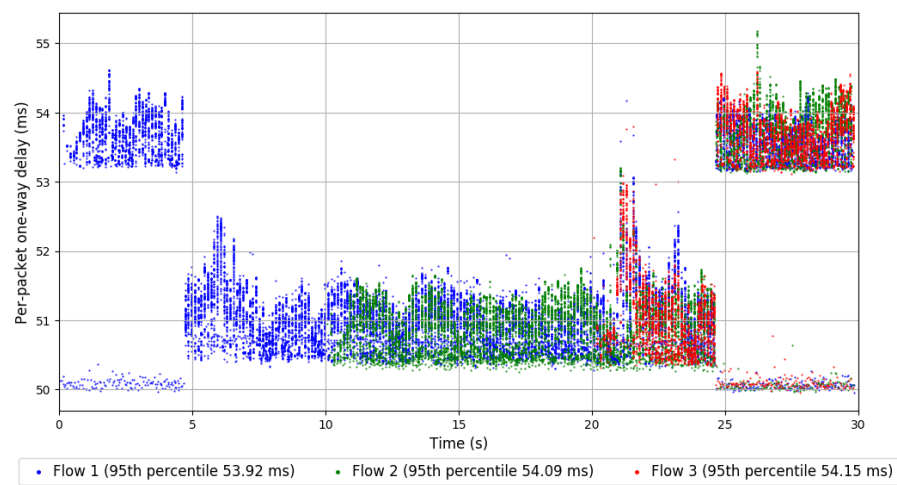
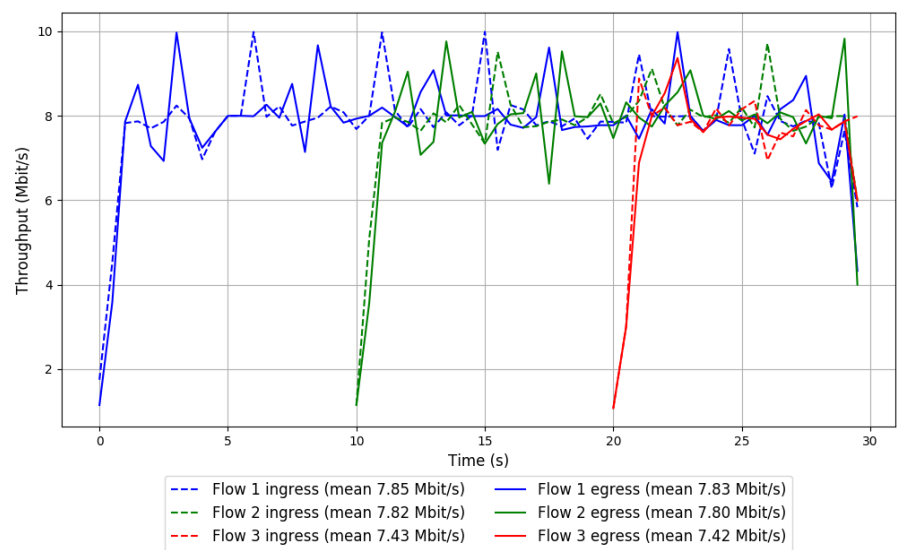
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.150 ms

Loss rate: 1.37%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 19:57:17

End at: 2017-11-21 19:57:47

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 54.205 ms

Loss rate: 0.57%

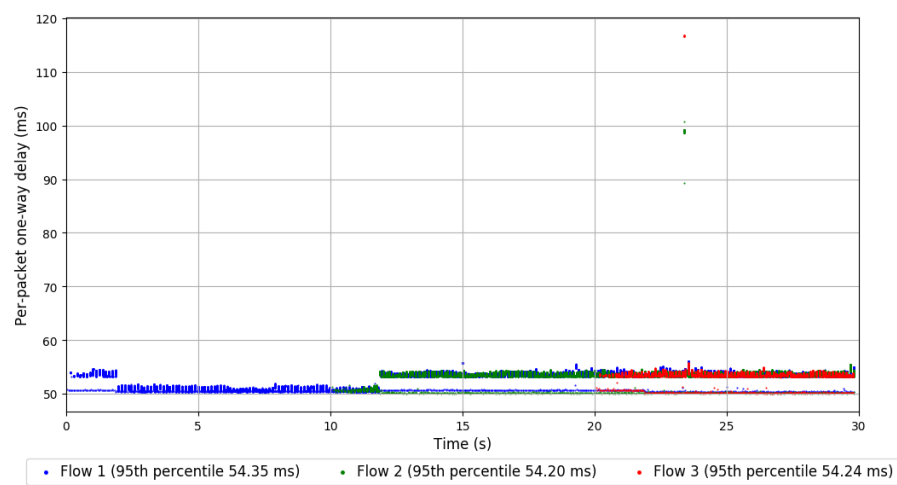
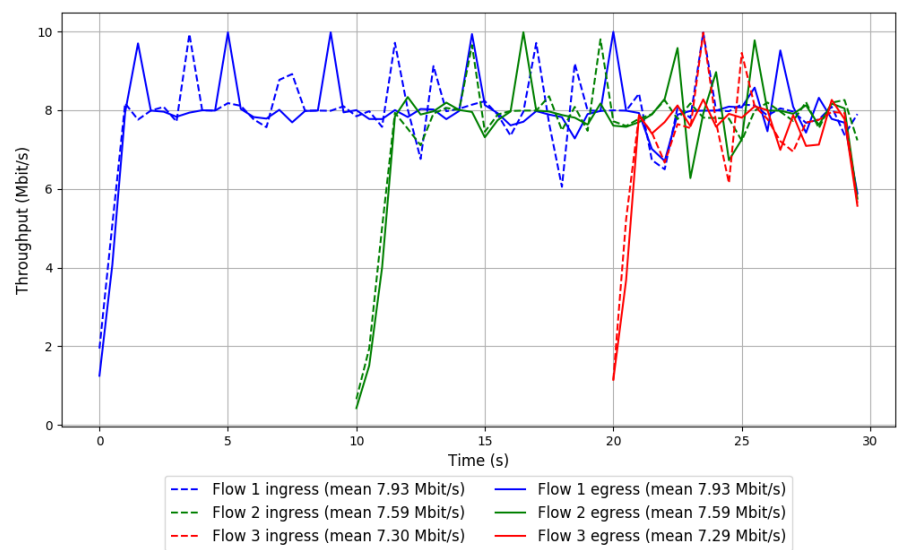
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 1.33%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 20:08:49

End at: 2017-11-21 20:09:19

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 53.975 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.155 ms

Loss rate: 0.64%

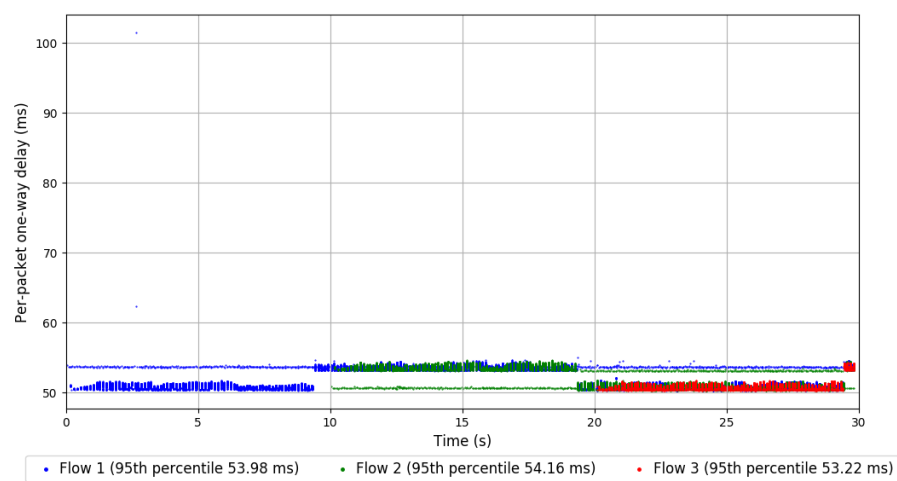
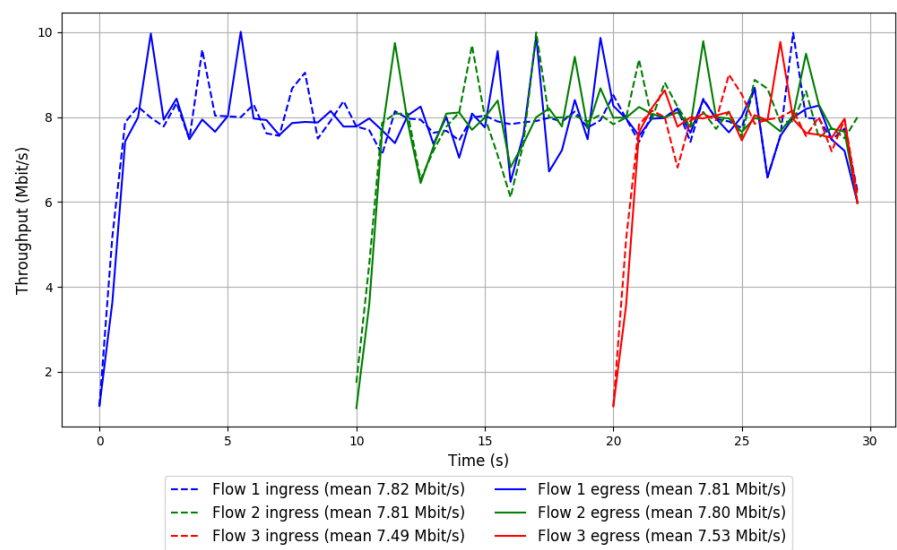
-- Flow 3:

Average throughput: 7.53 Mbit/s

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

Loss rate: 0.28%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 20:20:25

End at: 2017-11-21 20:20:55

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 54.164 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 54.187 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 0.62%

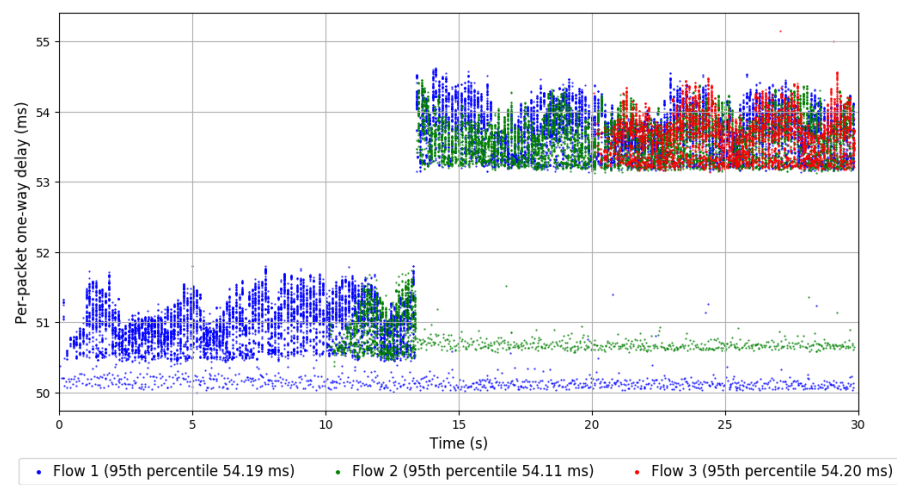
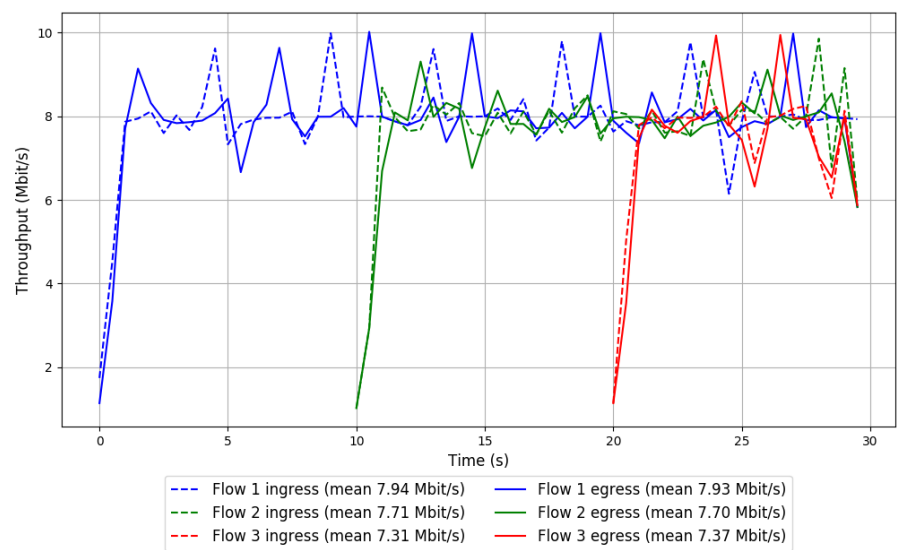
-- Flow 3:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 54.199 ms

Loss rate: 0.18%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 20:32:12

End at: 2017-11-21 20:32:42

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.316 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.394 ms

Loss rate: 0.51%

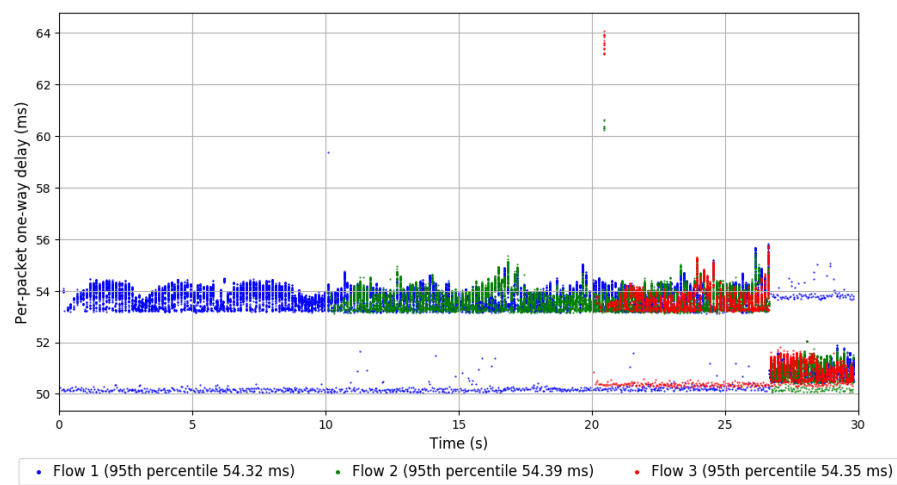
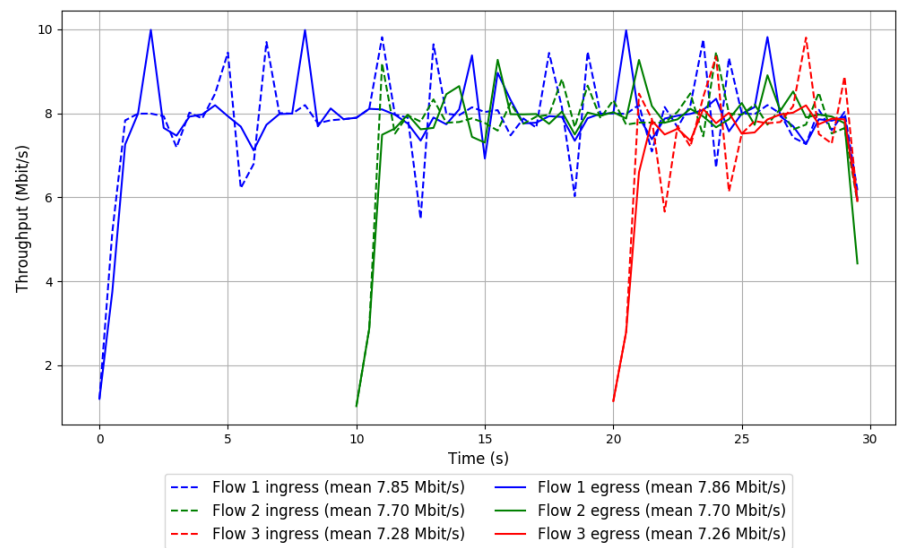
-- Flow 3:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 54.351 ms

Loss rate: 1.38%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 20:44:30

End at: 2017-11-21 20:45:00

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.18 Mbit/s

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

Loss rate: 0.47%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 53.155 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 53.232 ms

Loss rate: 0.10%

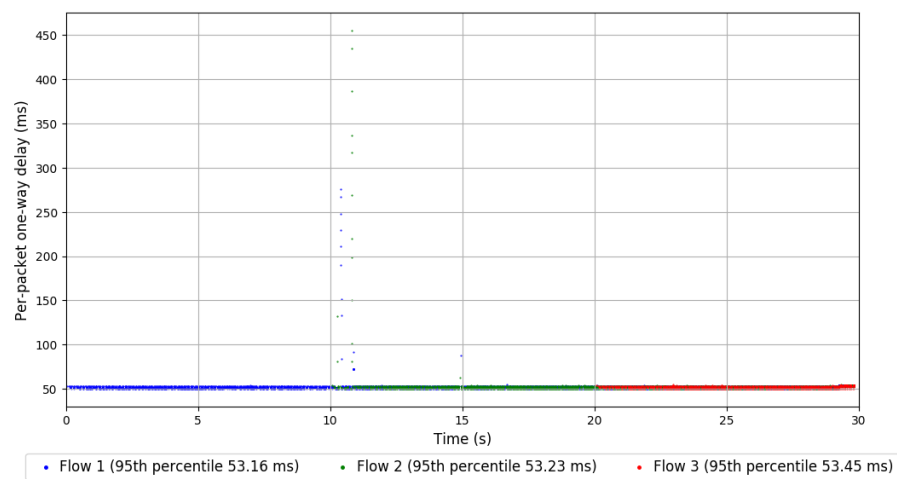
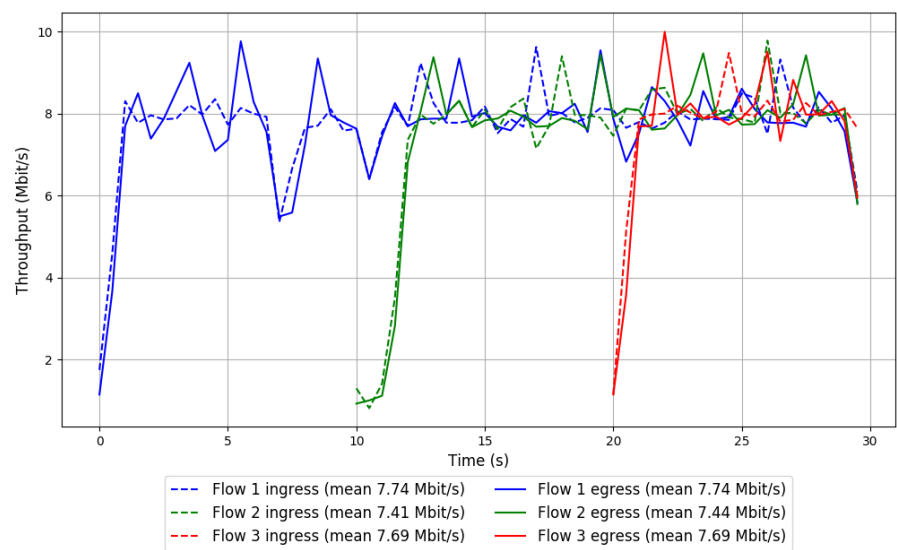
-- Flow 3:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 53.450 ms

Loss rate: 1.32%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 20:57:00

End at: 2017-11-21 20:57:30

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 54.185 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.137 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.165 ms

Loss rate: 0.62%

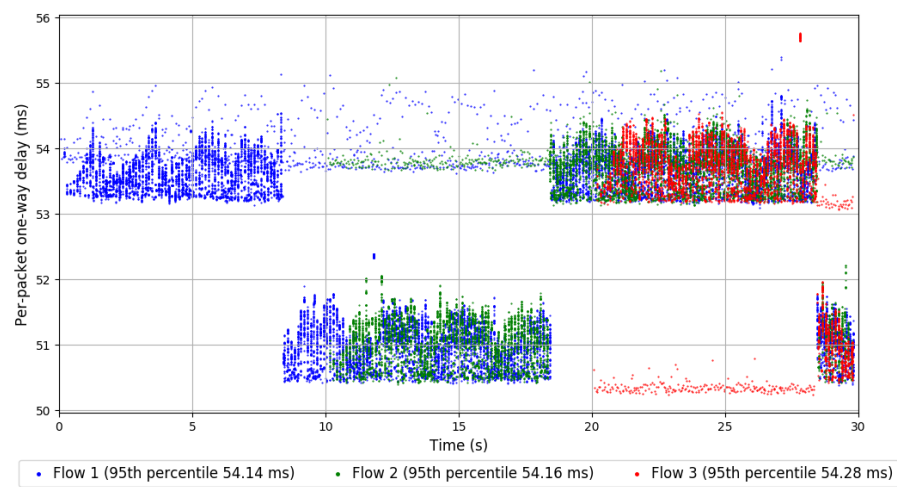
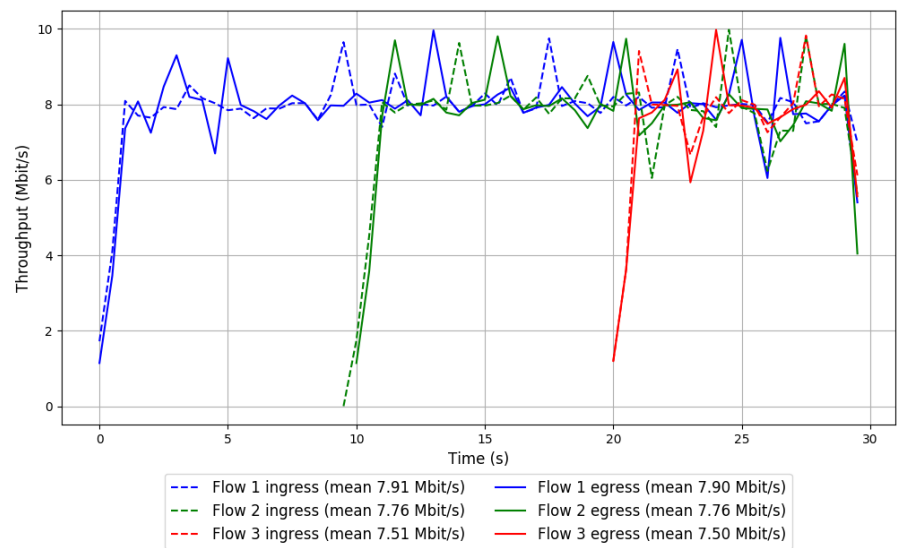
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 1.31%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 21:08:39

End at: 2017-11-21 21:09:09

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.144 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.74%

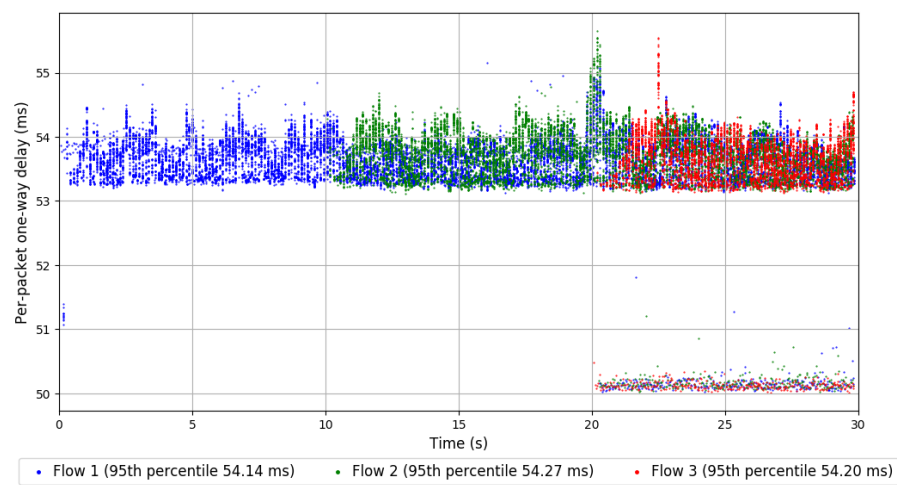
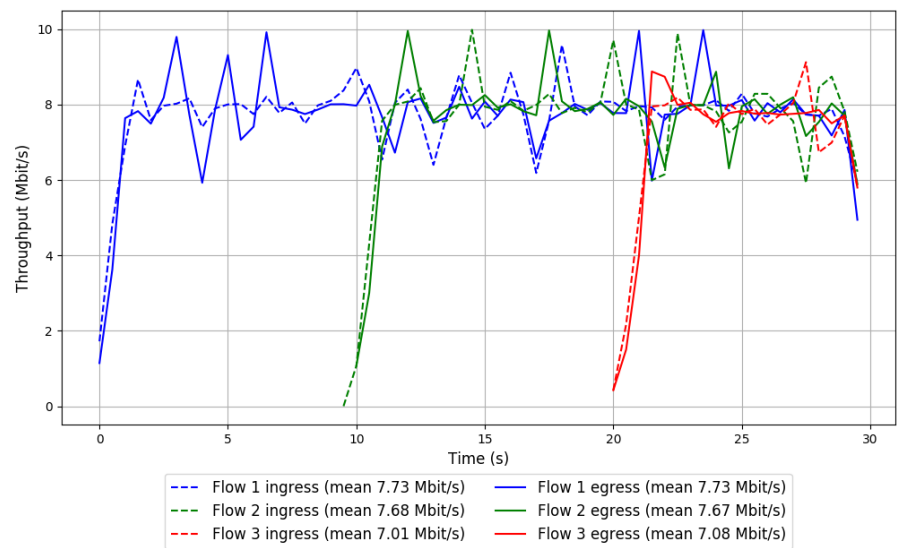
-- Flow 3:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 54.203 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 21:20:17

End at: 2017-11-21 21:20:47

Below is generated by plot.py at 2017-11-22 00:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 51.563 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.532 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.945 ms

Loss rate: 0.62%

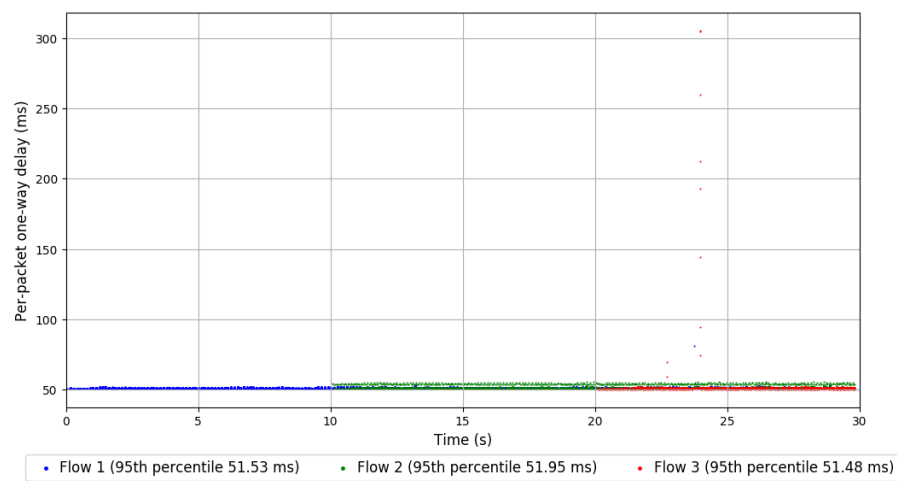
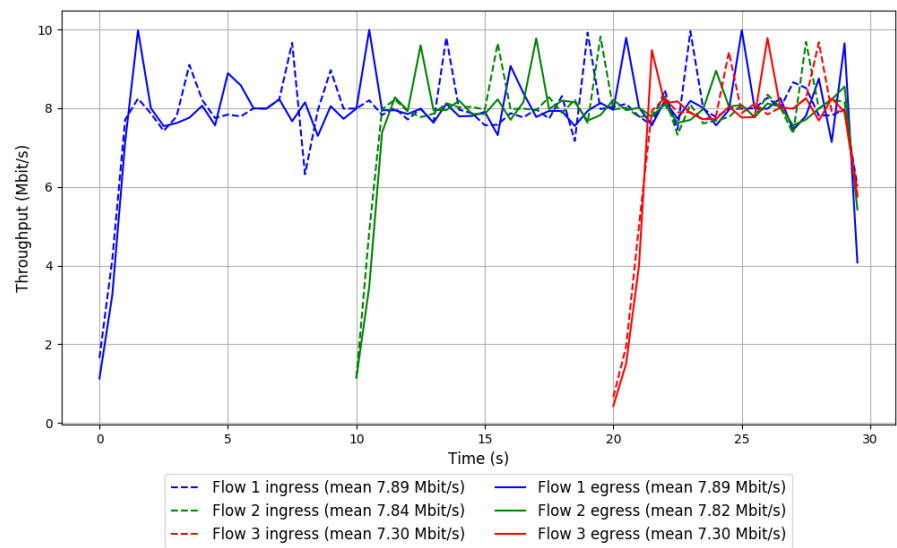
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 51.483 ms

Loss rate: 1.27%

Run 10: Report of Sprout — Data Link

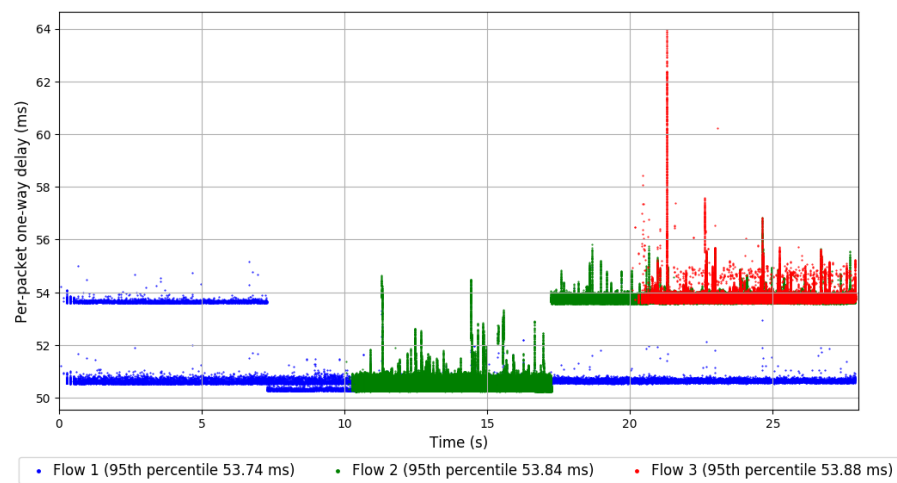
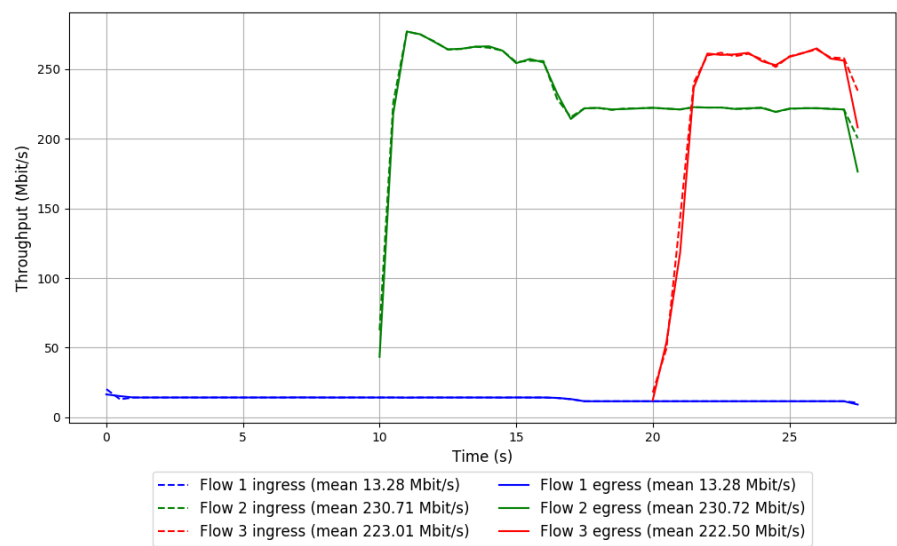


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 19:35:10
End at: 2017-11-21 19:35:40

# Below is generated by plot.py at 2017-11-22 00:04:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.55 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 53.738 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 230.72 Mbit/s
95th percentile per-packet one-way delay: 53.835 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 222.50 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 1.59%
```


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

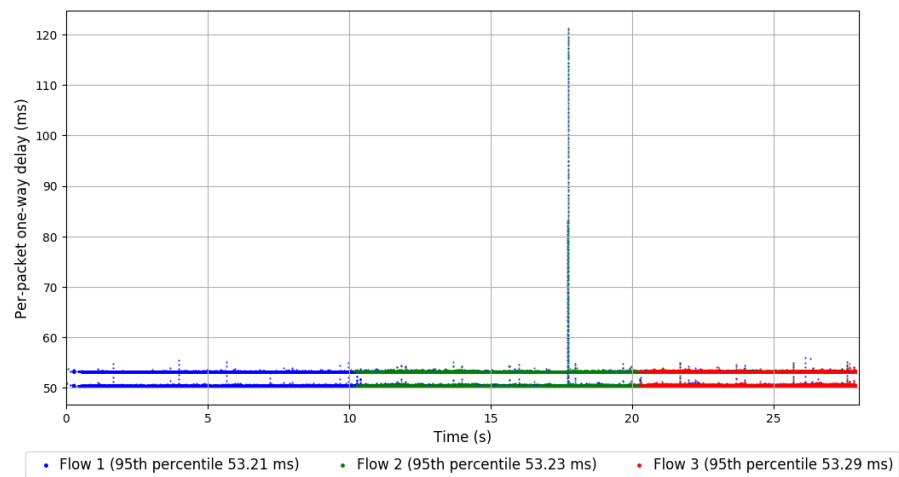
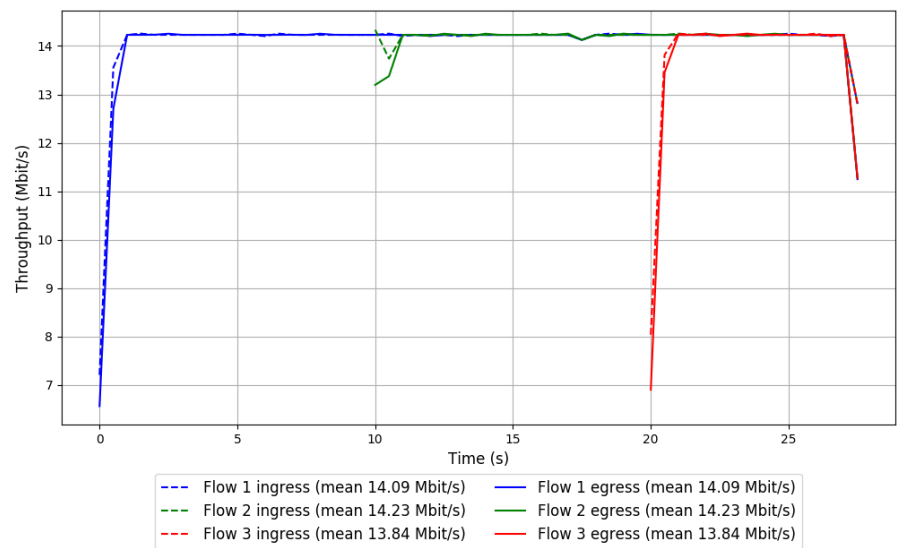


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 19:47:21
End at: 2017-11-21 19:47:51

# Below is generated by plot.py at 2017-11-22 00:04:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.09 Mbit/s
95th percentile per-packet one-way delay: 53.227 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 53.206 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 14.23 Mbit/s
95th percentile per-packet one-way delay: 53.228 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 53.294 ms
Loss rate: 1.38%
```

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

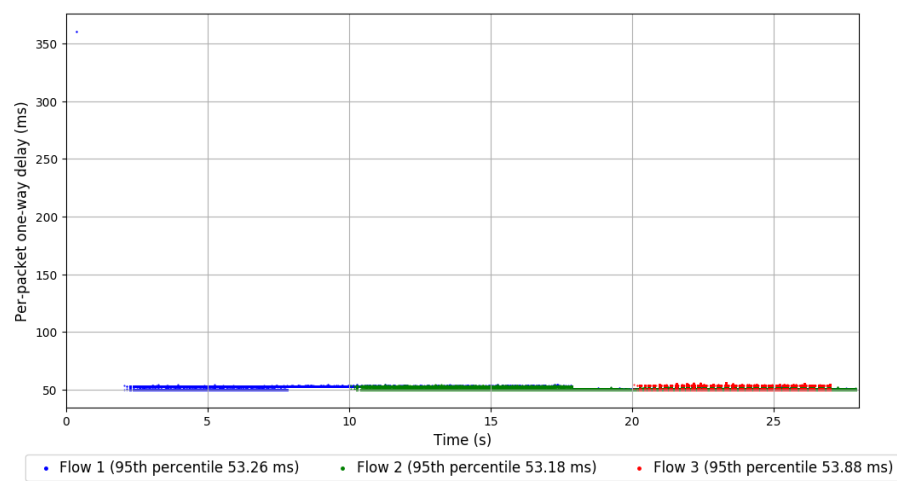
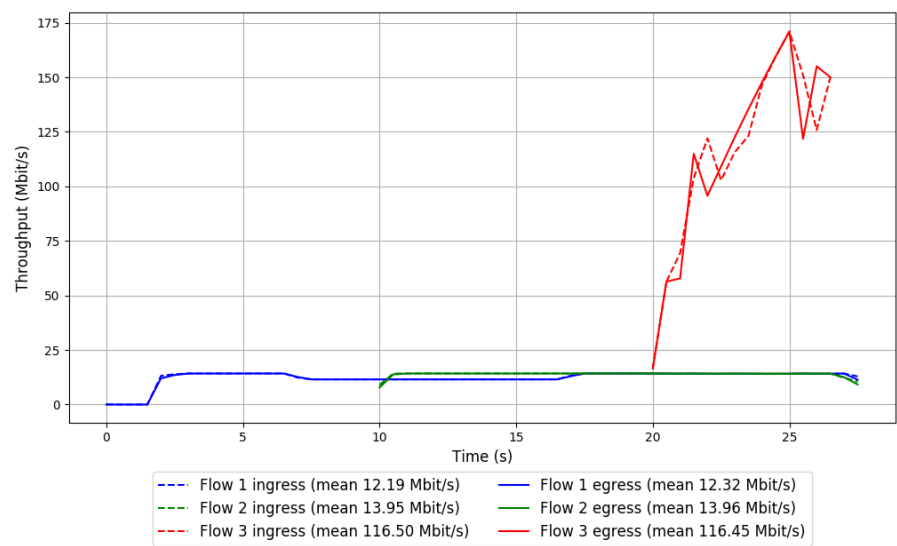


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 19:58:59
End at: 2017-11-21 19:59:29

# Below is generated by plot.py at 2017-11-22 00:04:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.66 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 53.257 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 13.96 Mbit/s
95th percentile per-packet one-way delay: 53.177 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 116.45 Mbit/s
95th percentile per-packet one-way delay: 53.885 ms
Loss rate: 0.00%
```

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

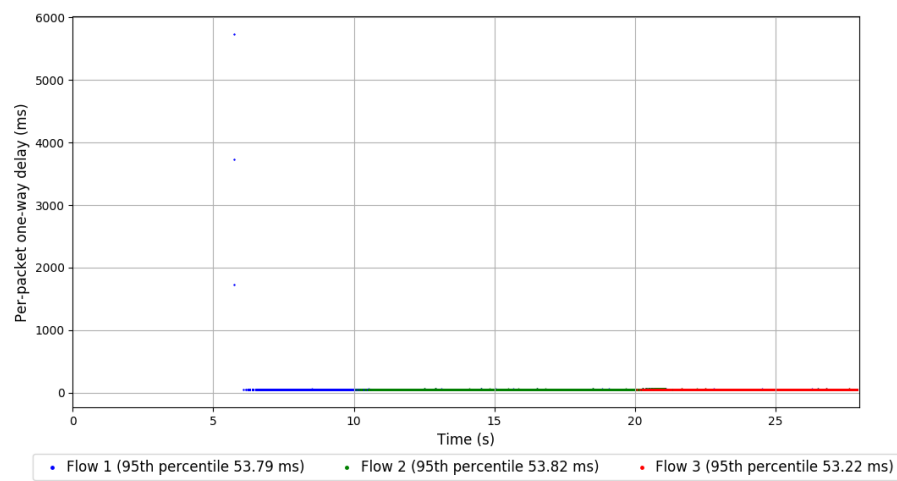
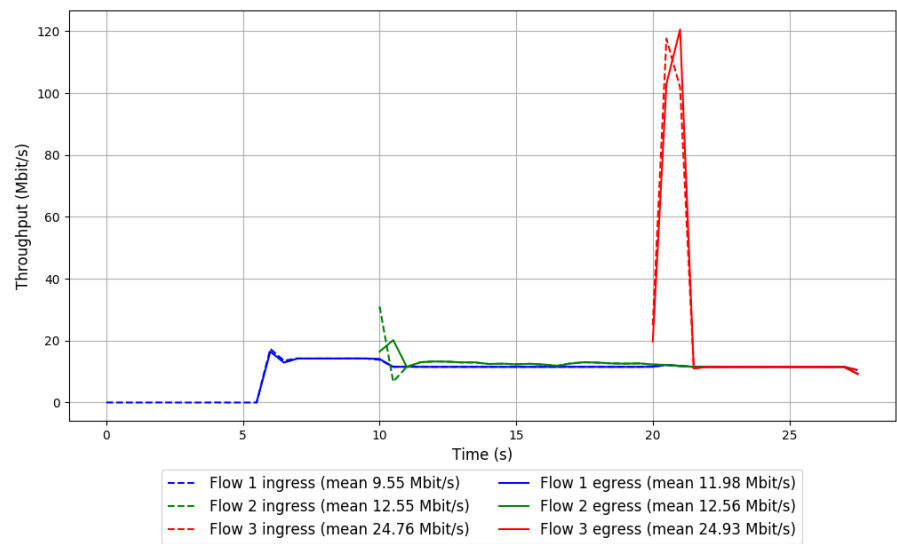


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 20:10:36

End at: 2017-11-21 20:11:06

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 20:22:15

End at: 2017-11-21 20:22:45

Below is generated by plot.py at 2017-11-22 00:04:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 18.71 Mbit/s

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

Loss rate: 0.12%

-- Flow 2:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 53.188 ms

Loss rate: 0.12%

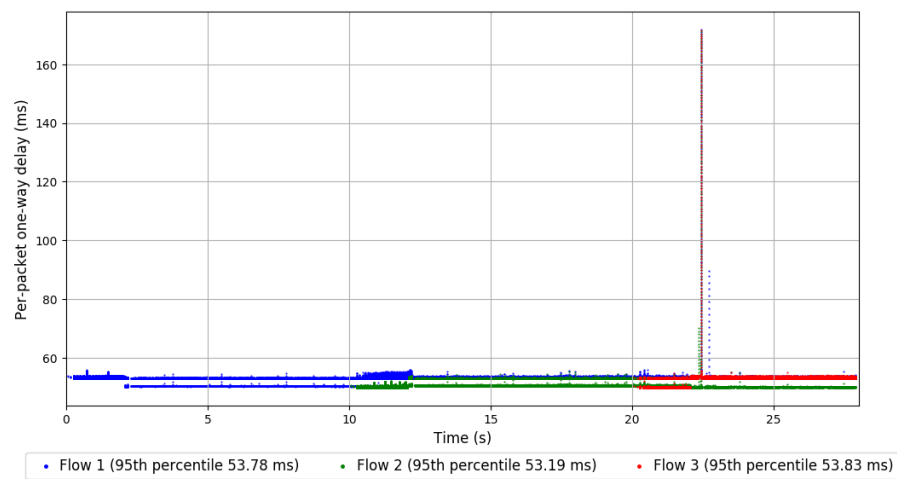
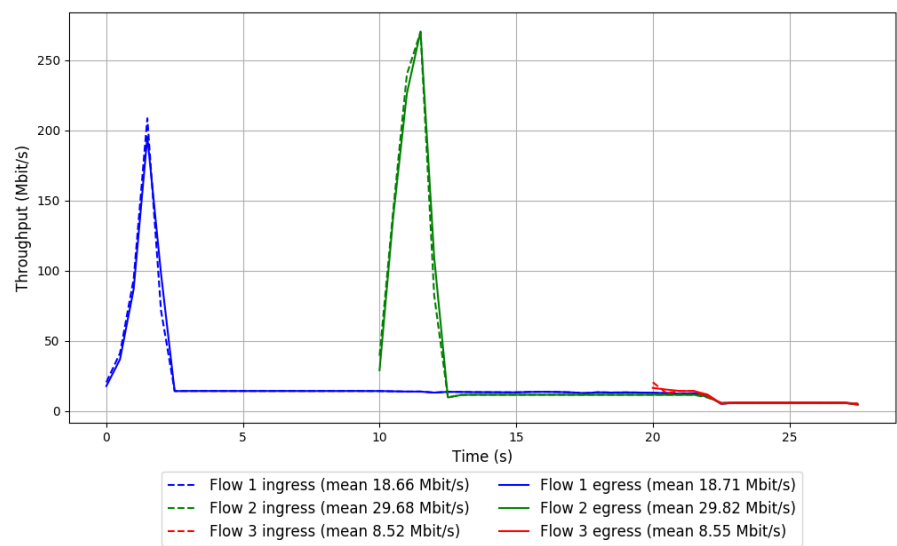
-- Flow 3:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 53.825 ms

Loss rate: 0.94%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 20:33:55

End at: 2017-11-21 20:34:25

Below is generated by plot.py at 2017-11-22 00:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.09 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 204.64 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 243.13 Mbit/s

95th percentile per-packet one-way delay: 53.865 ms

Loss rate: 0.66%

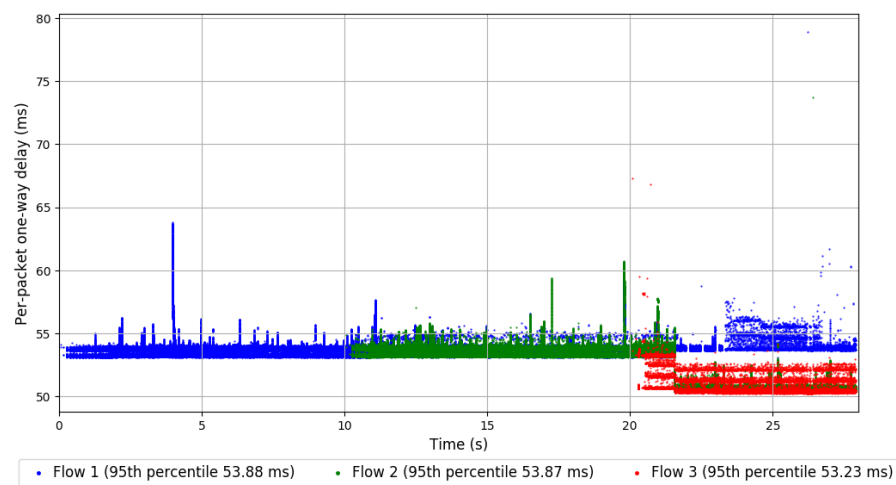
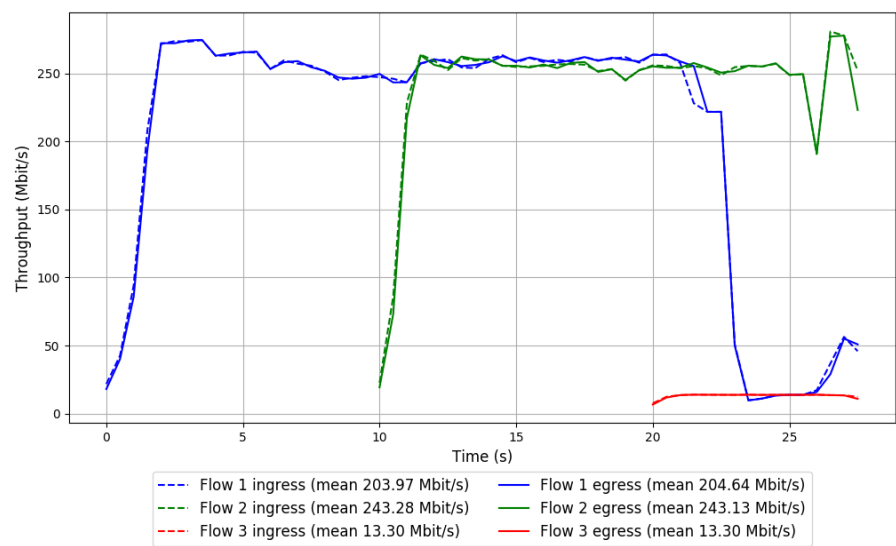
-- Flow 3:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 53.233 ms

Loss rate: 1.35%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 20:46:18

End at: 2017-11-21 20:46:48

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.95 Mbit/s

95th percentile per-packet one-way delay: 53.933 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 205.48 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 222.82 Mbit/s

95th percentile per-packet one-way delay: 56.404 ms

Loss rate: 0.44%

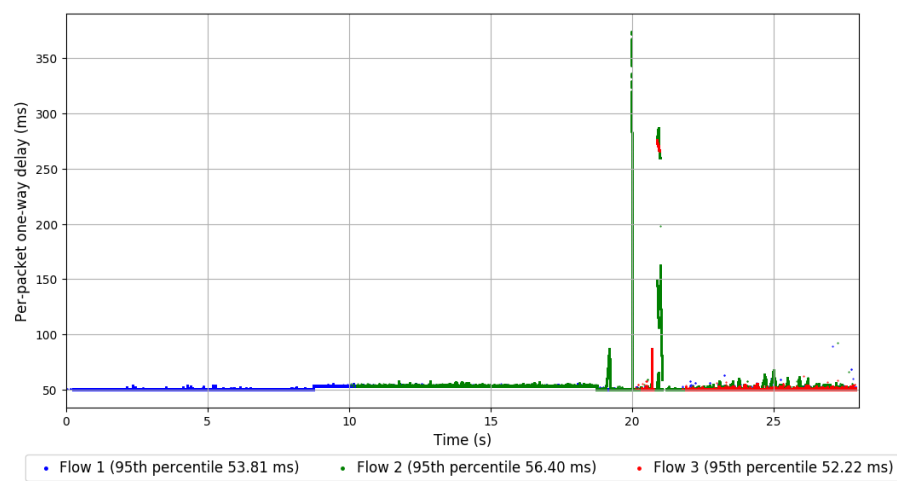
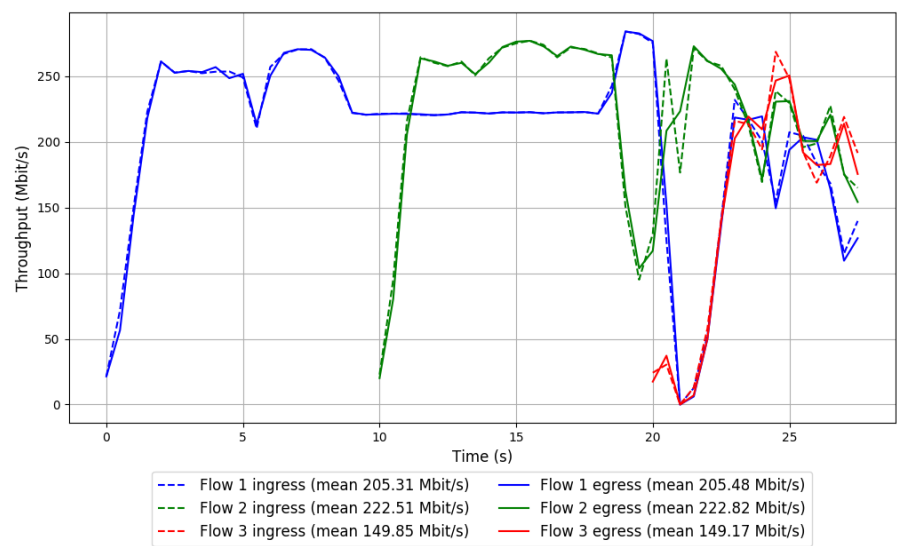
-- Flow 3:

Average throughput: 149.17 Mbit/s

95th percentile per-packet one-way delay: 52.220 ms

Loss rate: 1.74%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 20:58:45

End at: 2017-11-21 20:59:15

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 53.690 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 54.358 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 53.968 ms

Loss rate: 0.51%

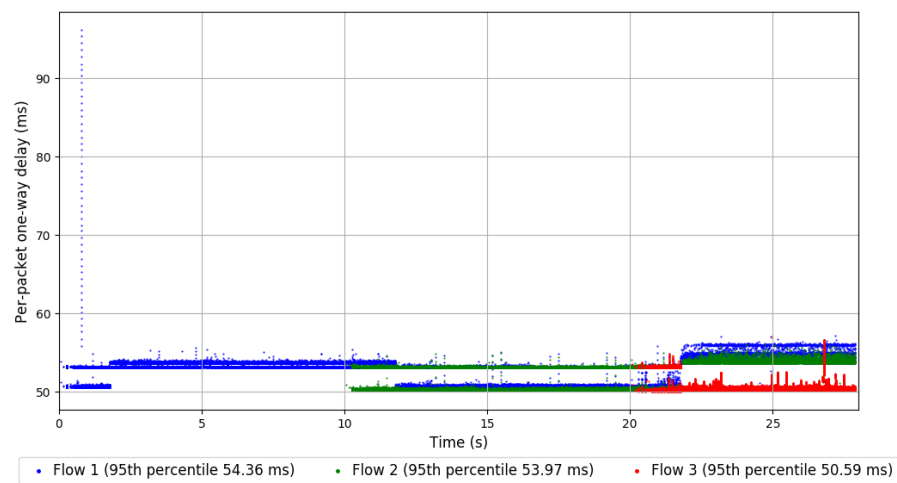
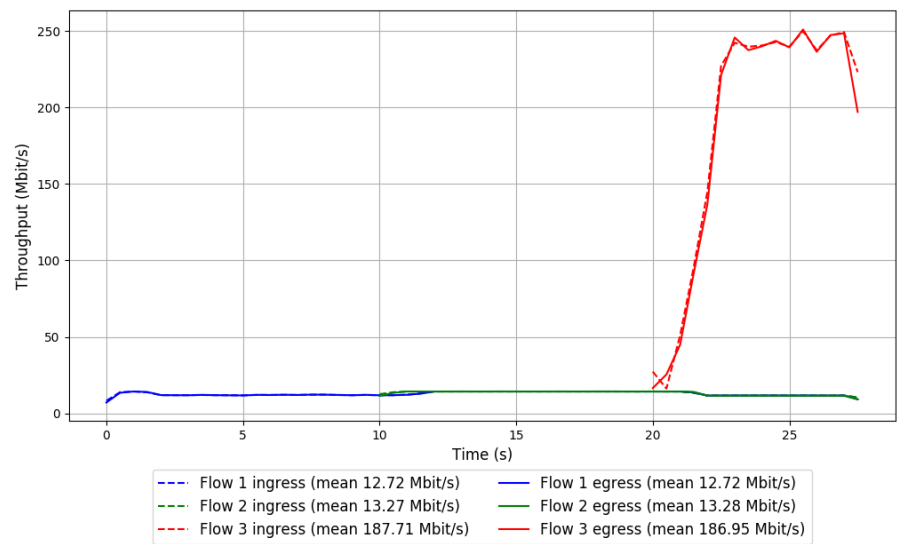
-- Flow 3:

Average throughput: 186.95 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 1.72%

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

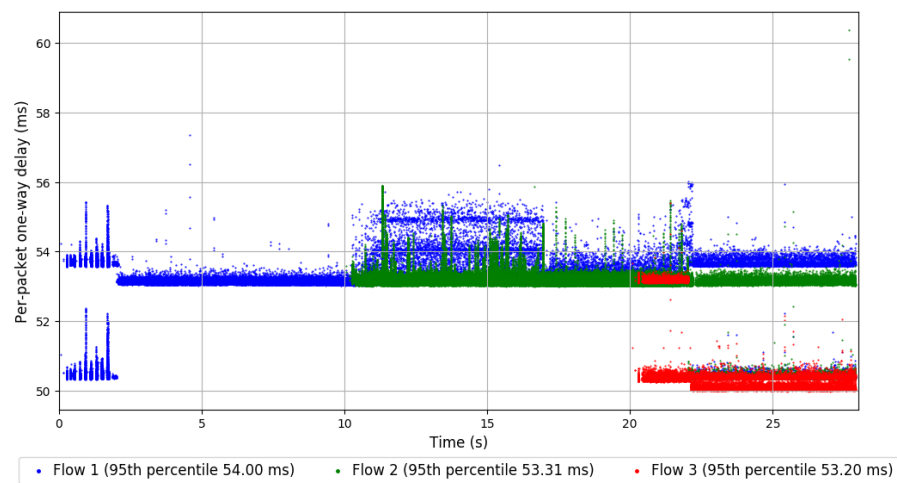
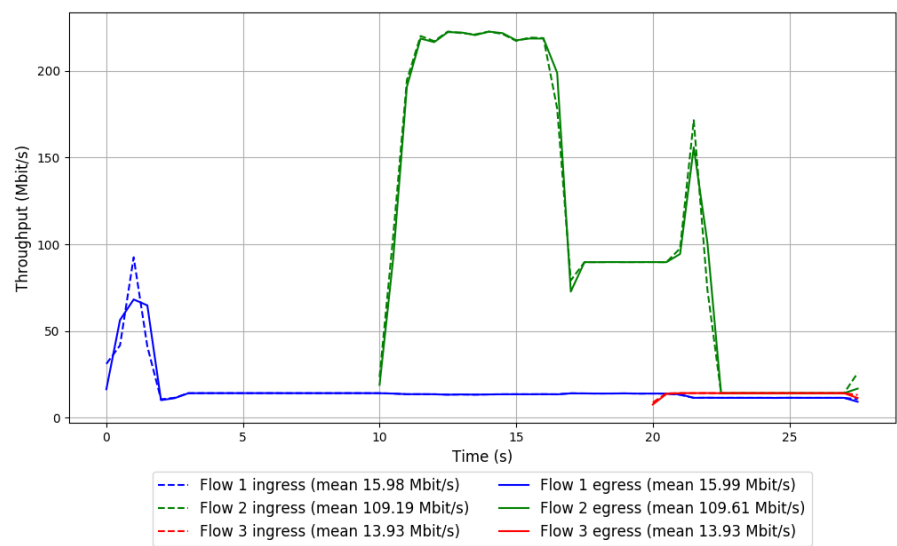


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 21:10:25
End at: 2017-11-21 21:10:55

# Below is generated by plot.py at 2017-11-22 00:10:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 15.99 Mbit/s
95th percentile per-packet one-way delay: 53.998 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 109.61 Mbit/s
95th percentile per-packet one-way delay: 53.310 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 53.204 ms
Loss rate: 1.45%
```


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

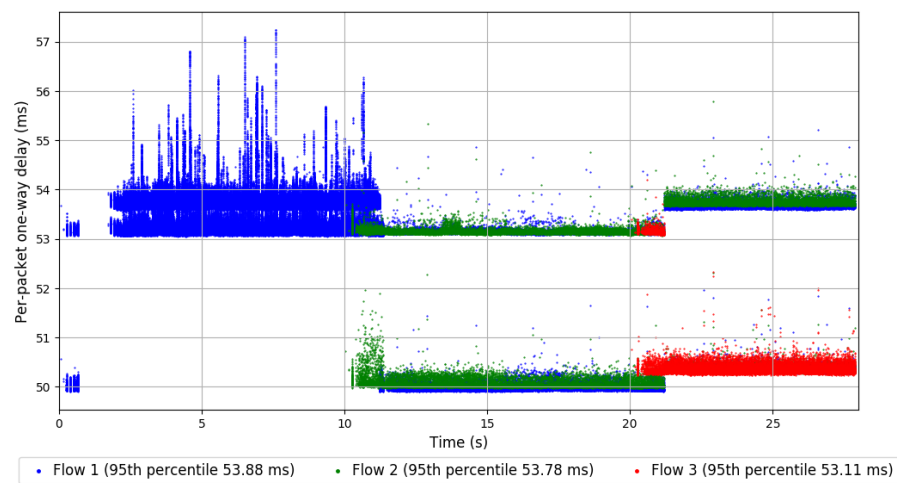
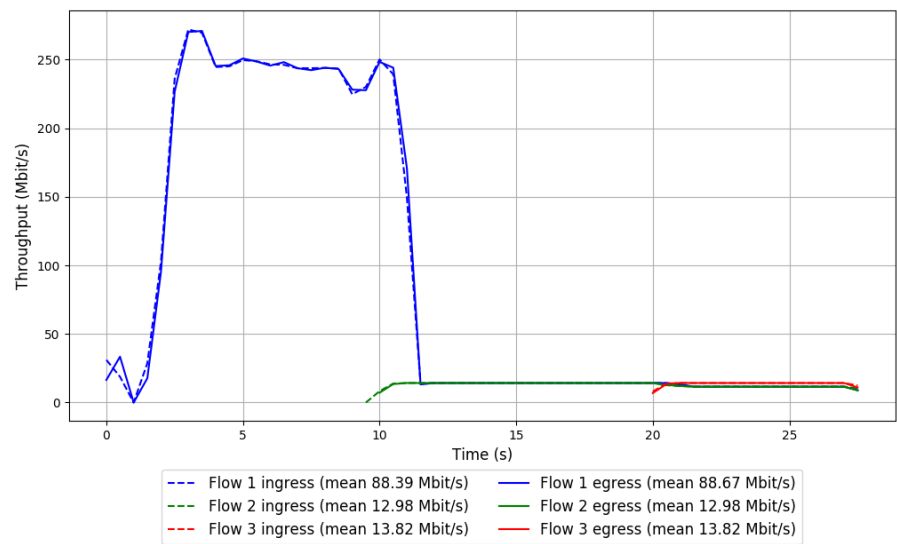


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 21:22:06
End at: 2017-11-21 21:22:36

# Below is generated by plot.py at 2017-11-22 00:10:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.88 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 88.67 Mbit/s
95th percentile per-packet one-way delay: 53.876 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 53.781 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 53.113 ms
Loss rate: 1.31%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 19:41:06

End at: 2017-11-21 19:41:36

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 57.673 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 58.270 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 54.212 ms

Loss rate: 1.16%

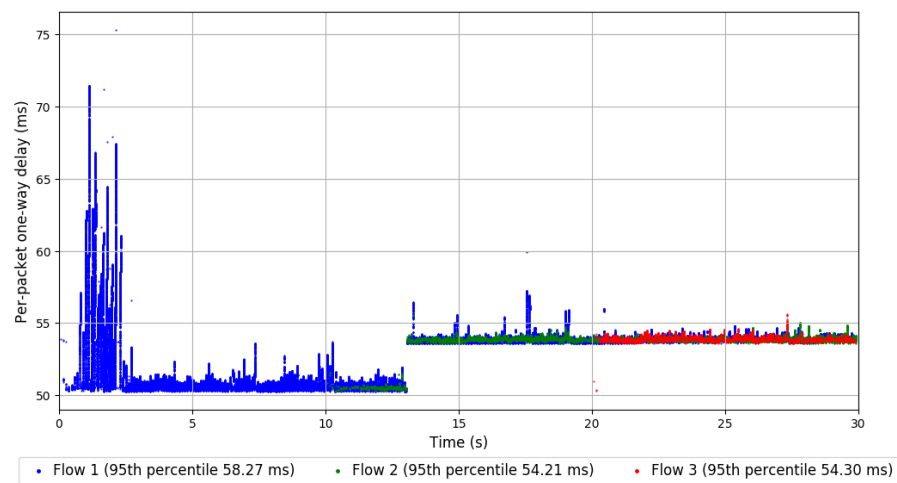
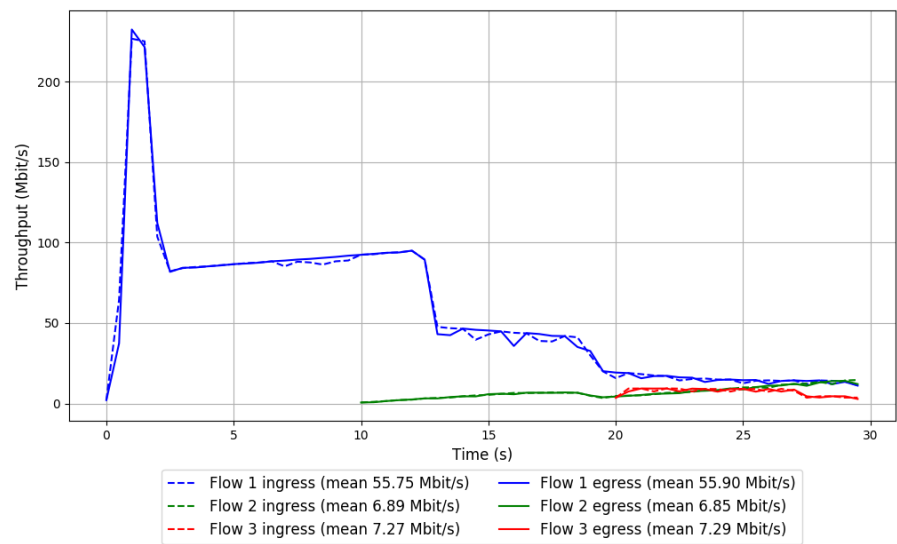
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 54.305 ms

Loss rate: 0.77%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 19:52:40

End at: 2017-11-21 19:53:10

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.51 Mbit/s

95th percentile per-packet one-way delay: 53.364 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 53.115 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 140.88 Mbit/s

95th percentile per-packet one-way delay: 53.406 ms

Loss rate: 0.52%

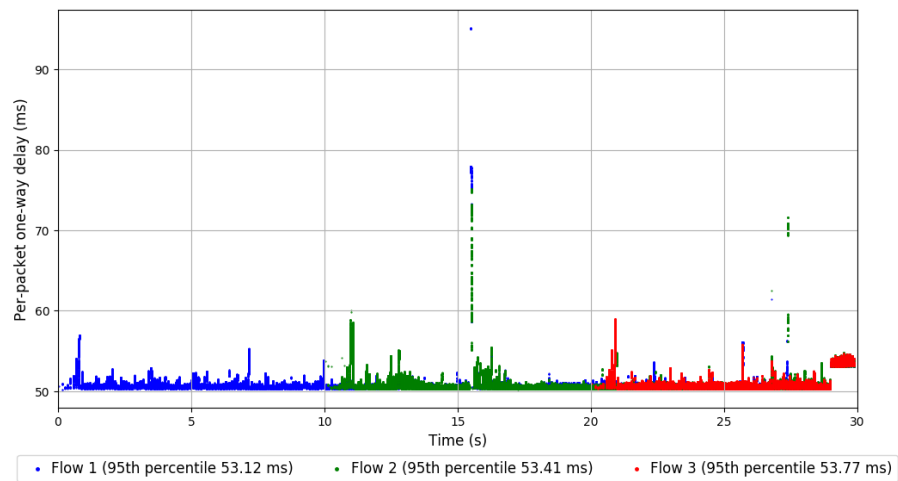
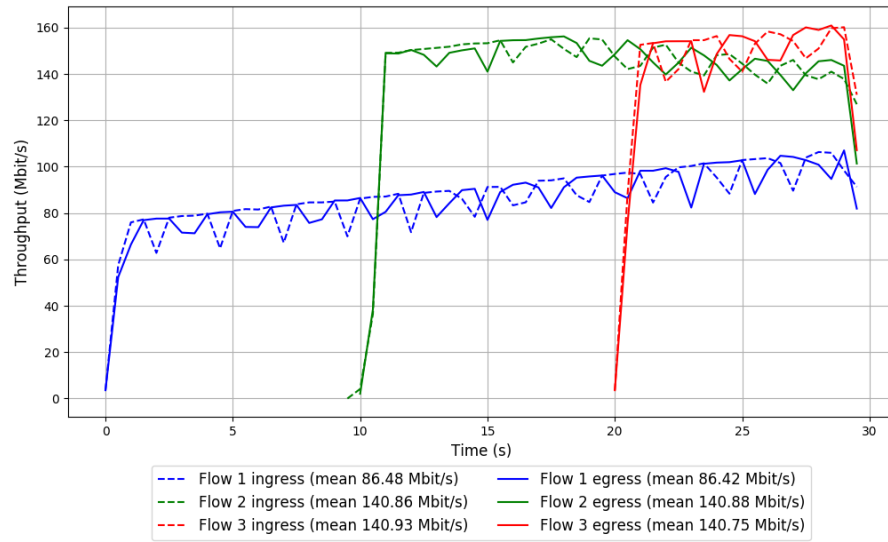
-- Flow 3:

Average throughput: 140.75 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 1.14%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 20:04:20

End at: 2017-11-21 20:04:50

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.10 Mbit/s

95th percentile per-packet one-way delay: 56.564 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 71.09 Mbit/s

95th percentile per-packet one-way delay: 56.537 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 56.400 ms

Loss rate: 0.45%

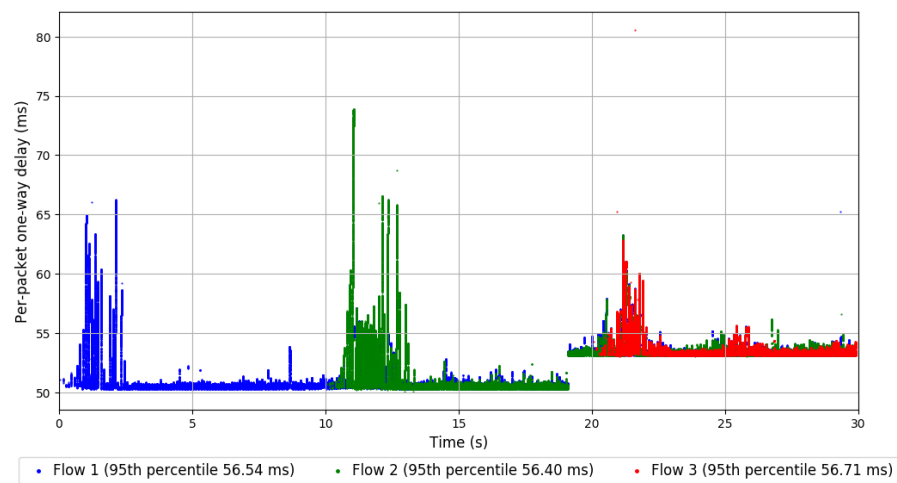
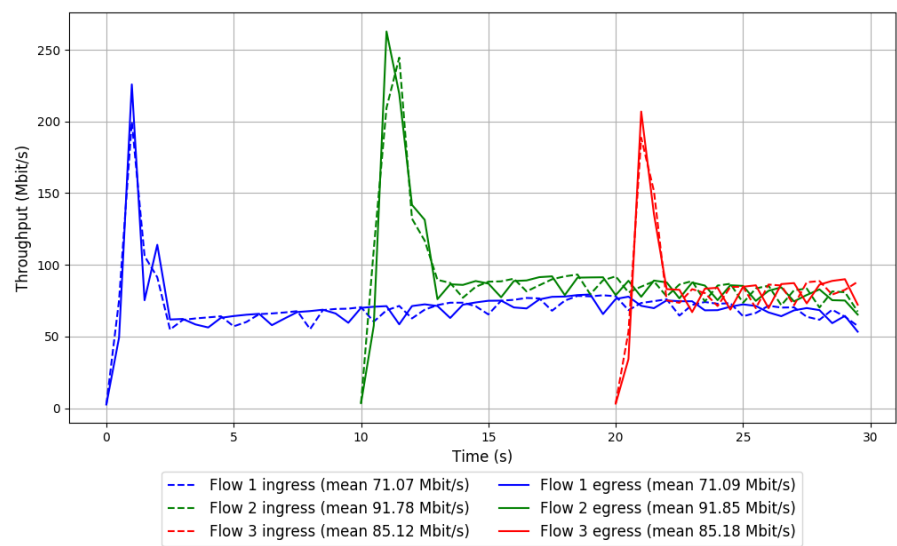
-- Flow 3:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 56.714 ms

Loss rate: 0.98%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 20:15:55

End at: 2017-11-21 20:16:25

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.42 Mbit/s

95th percentile per-packet one-way delay: 57.514 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 114.20 Mbit/s

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

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.01 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 0.26%

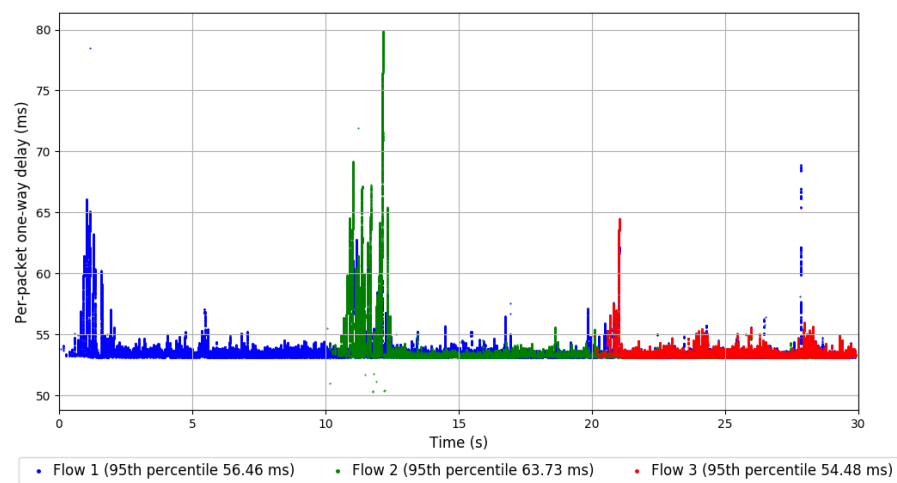
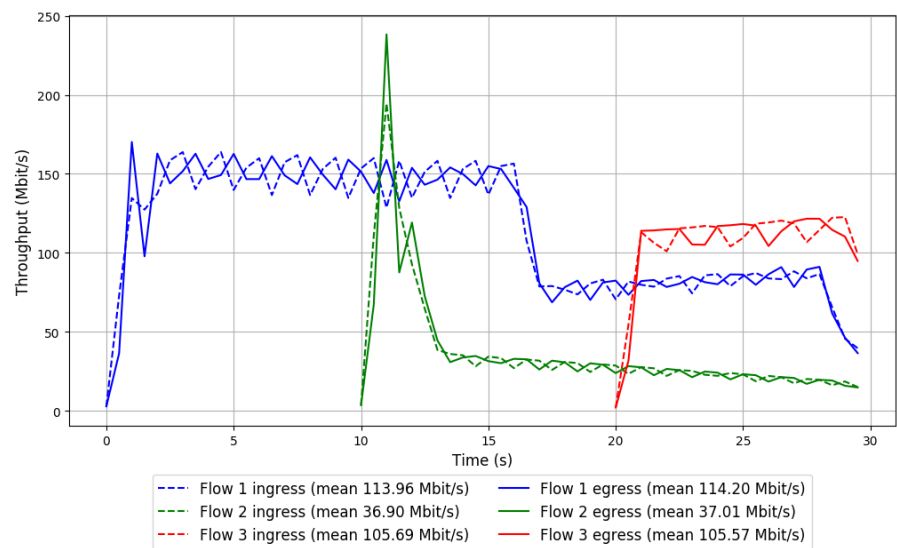
-- Flow 3:

Average throughput: 105.57 Mbit/s

95th percentile per-packet one-way delay: 54.478 ms

Loss rate: 1.17%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 20:27:43

End at: 2017-11-21 20:28:13

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.08 Mbit/s

95th percentile per-packet one-way delay: 53.644 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 53.477 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 138.86 Mbit/s

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

Loss rate: 0.48%

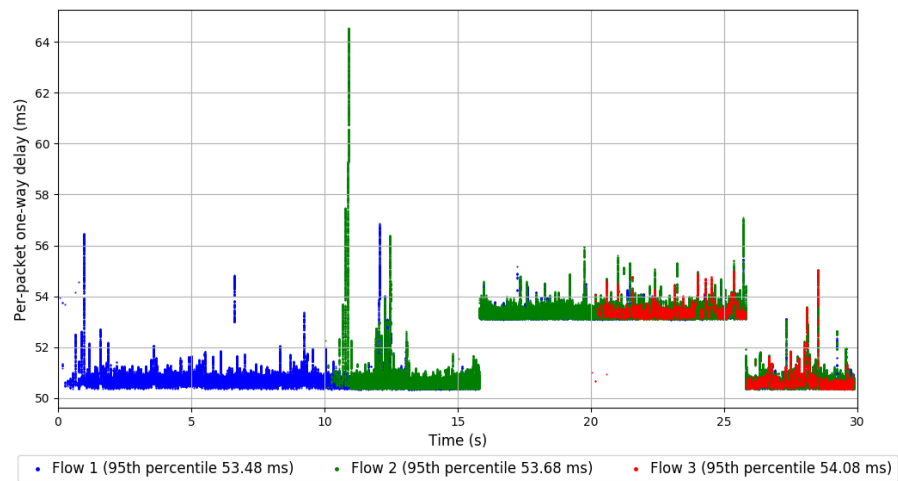
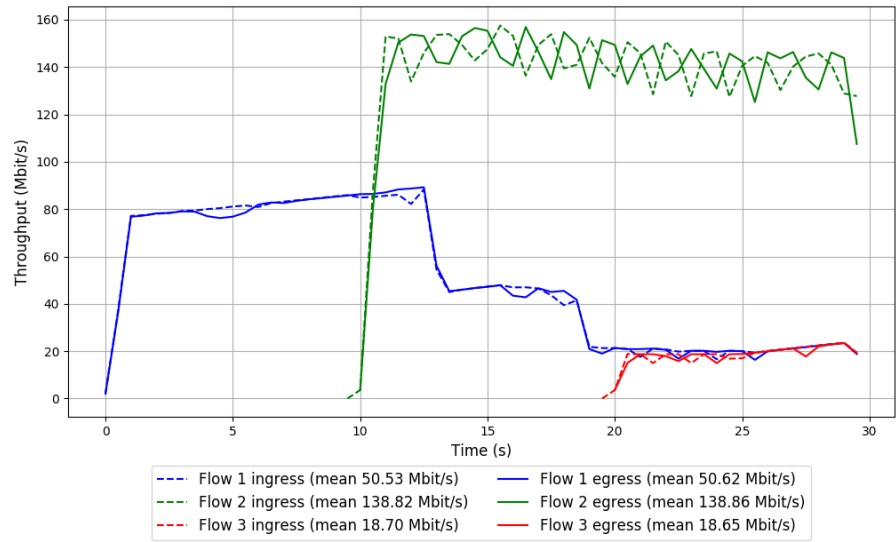
-- Flow 3:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 54.078 ms

Loss rate: 1.31%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 20:40:04

End at: 2017-11-21 20:40:34

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.62 Mbit/s

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 17.74 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.33%

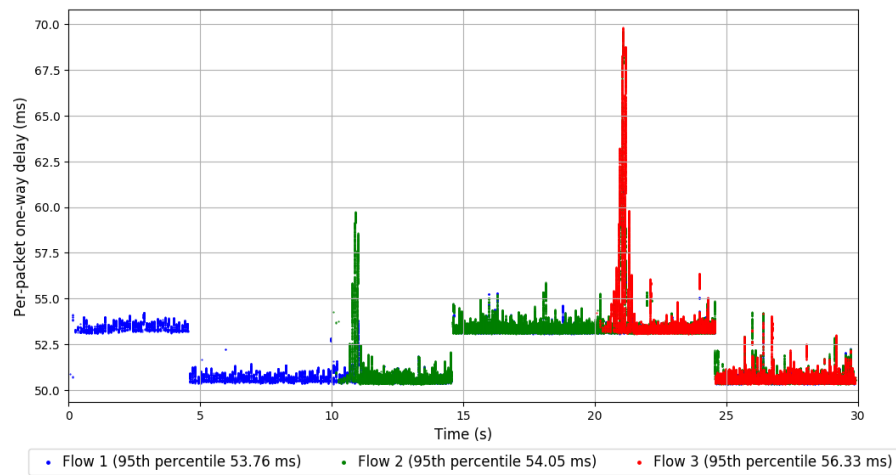
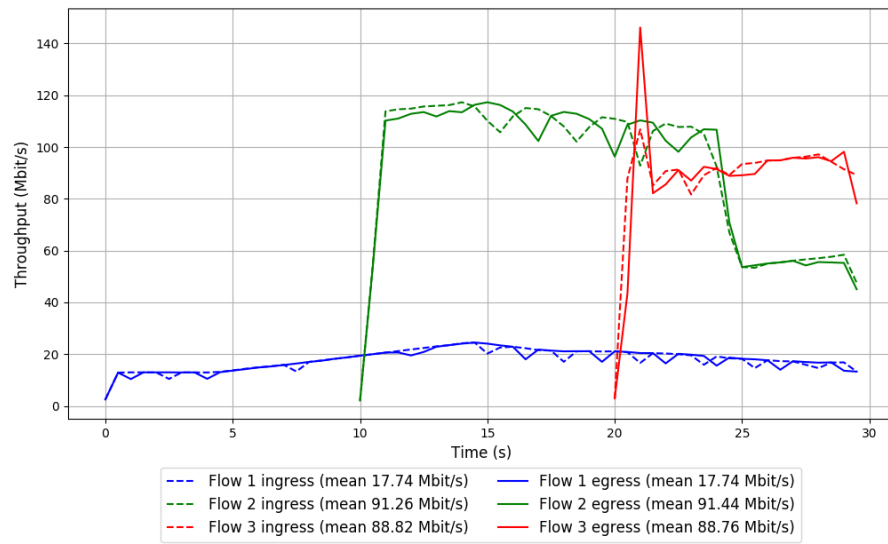
-- Flow 3:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 56.332 ms

Loss rate: 1.13%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 20:52:28

End at: 2017-11-21 20:52:58

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.33 Mbit/s

95th percentile per-packet one-way delay: 54.258 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 99.00 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 55.242 ms

Loss rate: 0.45%

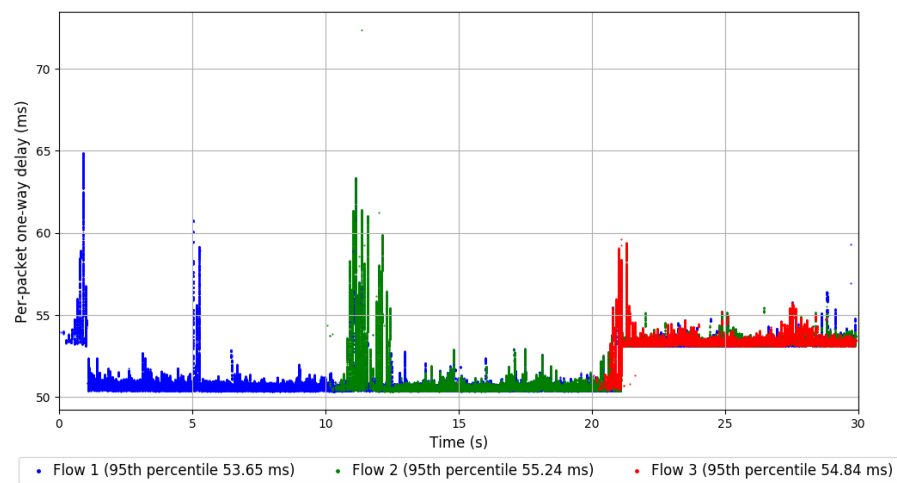
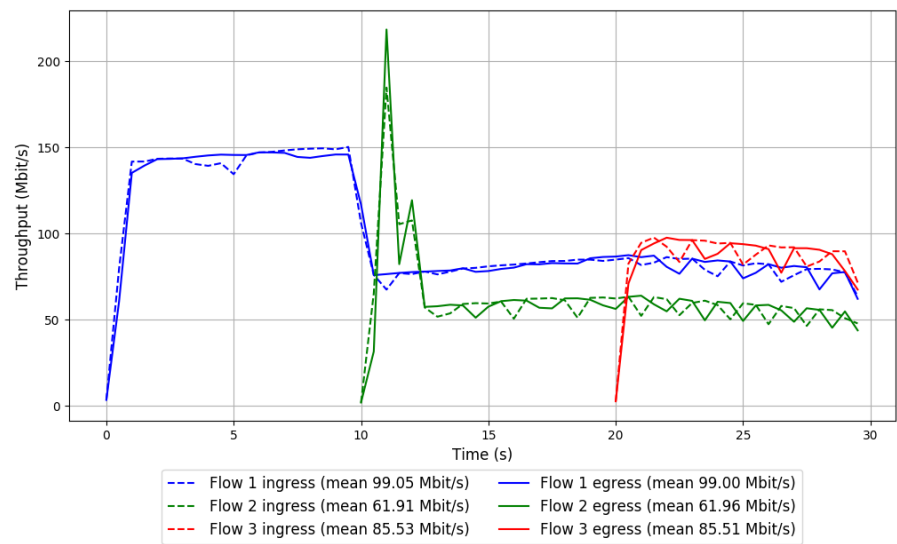
-- Flow 3:

Average throughput: 85.51 Mbit/s

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

Loss rate: 1.05%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 21:04:10

End at: 2017-11-21 21:04:40

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.36 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 53.994 ms

Loss rate: 0.86%

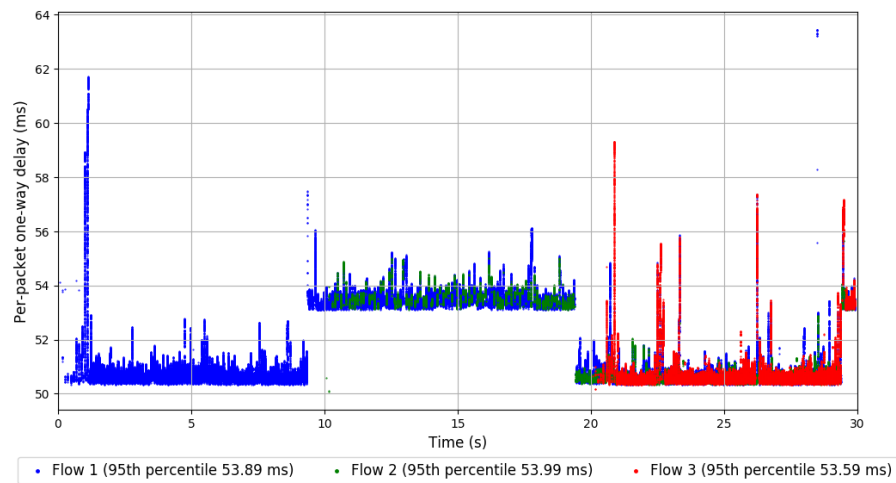
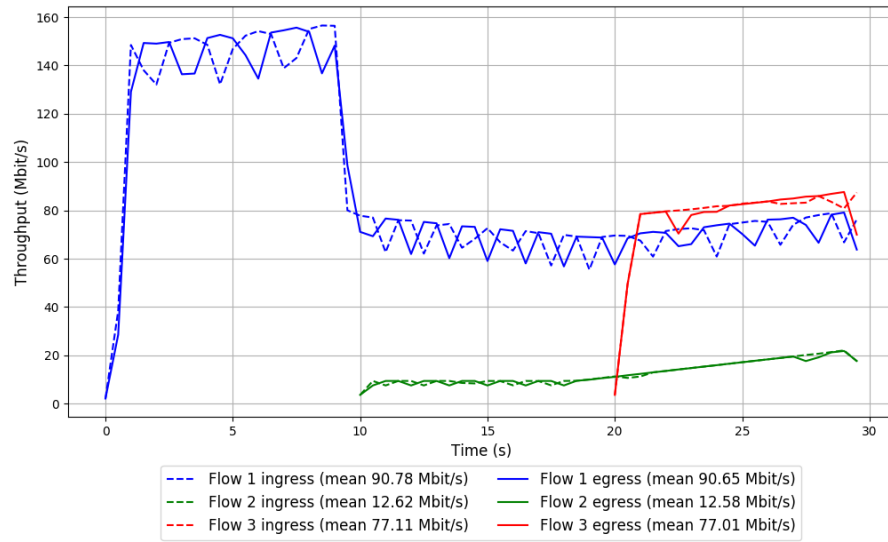
-- Flow 3:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 1.14%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 21:15:52

End at: 2017-11-21 21:16:22

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 54.868 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 51.24 Mbit/s

95th percentile per-packet one-way delay: 53.864 ms

Loss rate: 0.30%

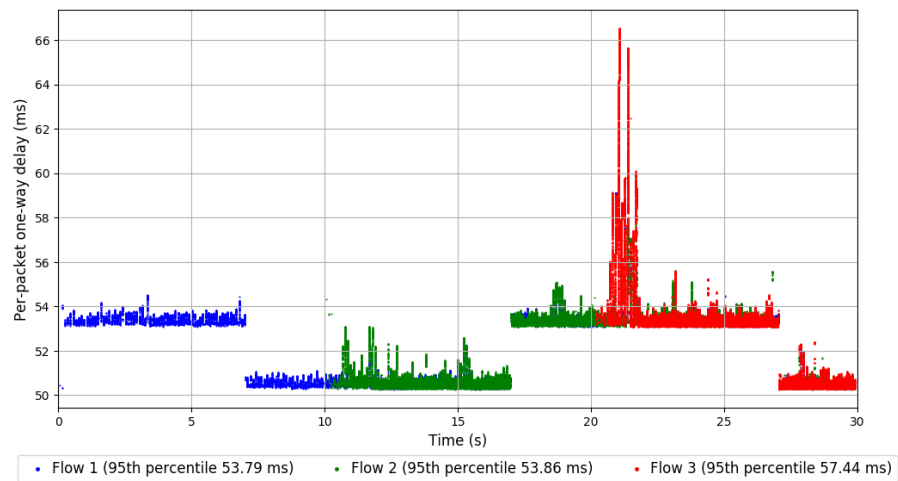
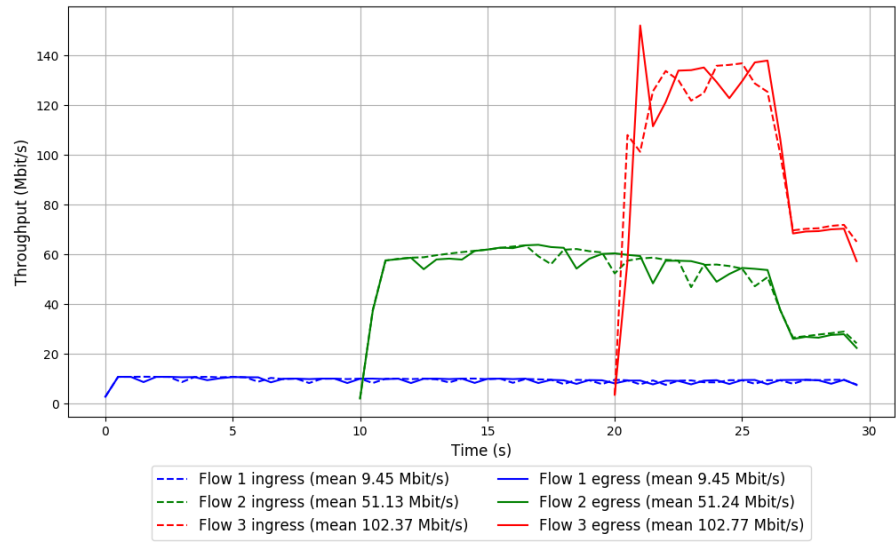
-- Flow 3:

Average throughput: 102.77 Mbit/s

95th percentile per-packet one-way delay: 57.436 ms

Loss rate: 0.72%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 21:27:41

End at: 2017-11-21 21:28:11

Below is generated by plot.py at 2017-11-22 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.53 Mbit/s

95th percentile per-packet one-way delay: 56.242 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 143.00 Mbit/s

95th percentile per-packet one-way delay: 56.403 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 15.12 Mbit/s

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

Loss rate: 0.55%

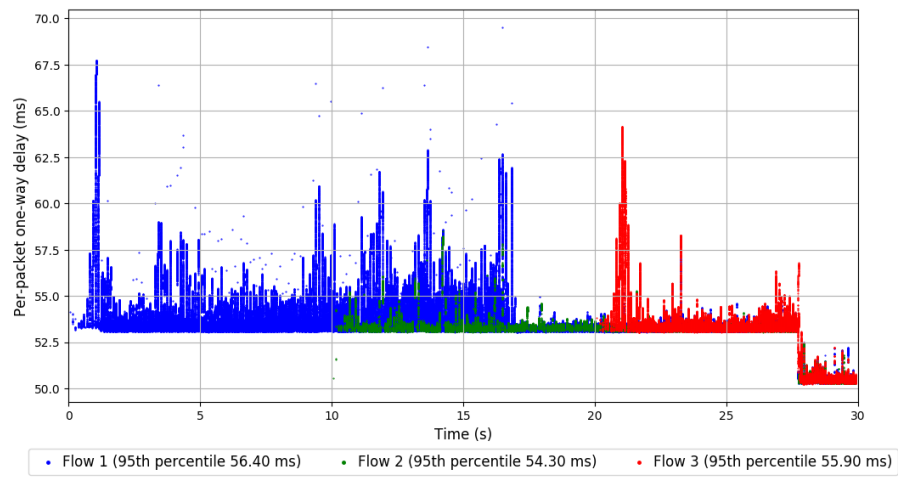
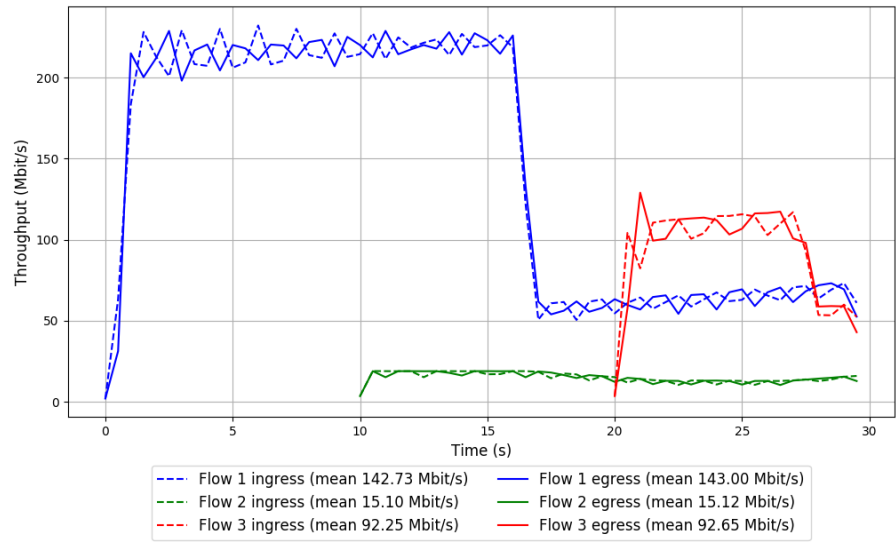
-- Flow 3:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 55.901 ms

Loss rate: 0.61%

Run 10: Report of TCP Vegas — Data Link

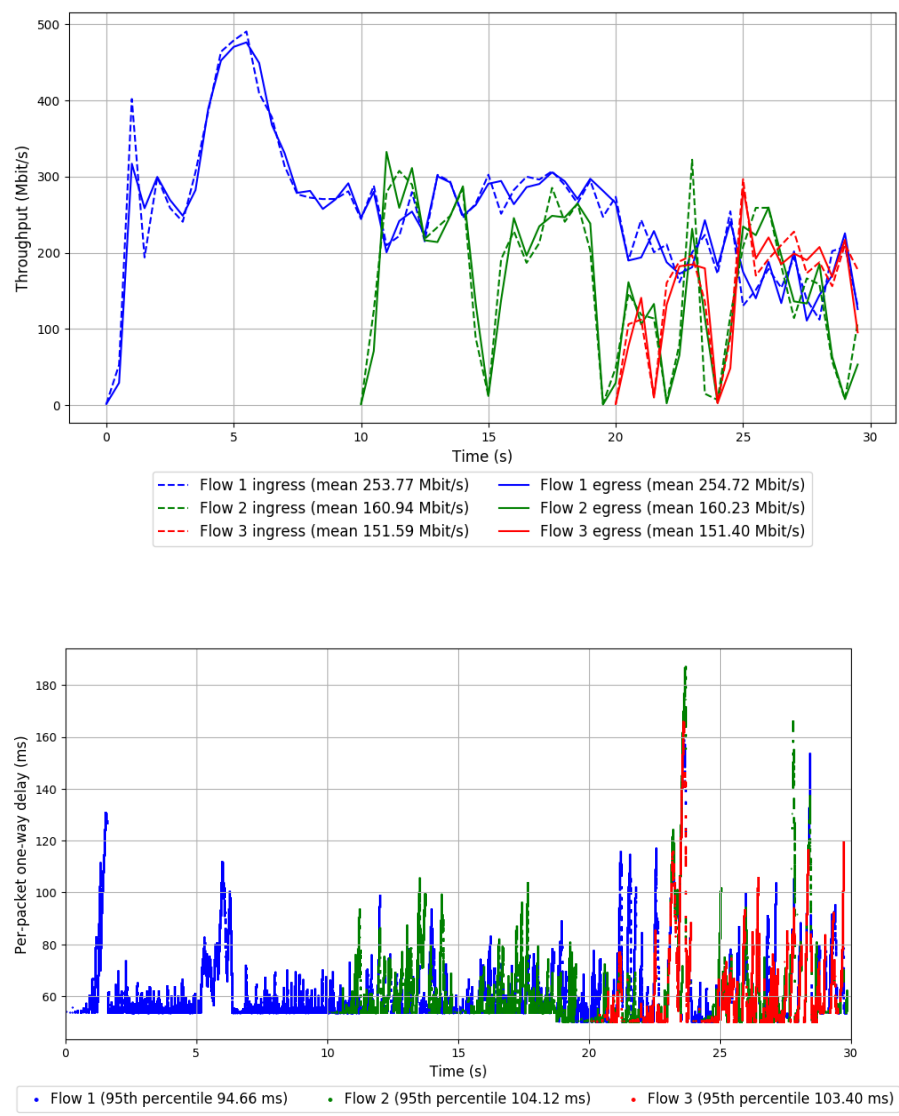


```
Run 1: Statistics of Verus

Start at: 2017-11-21 19:34:00
End at: 2017-11-21 19:34:30

# Below is generated by plot.py at 2017-11-22 00:11:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 409.80 Mbit/s
95th percentile per-packet one-way delay: 98.137 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 254.72 Mbit/s
95th percentile per-packet one-way delay: 94.661 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 160.23 Mbit/s
95th percentile per-packet one-way delay: 104.122 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 151.40 Mbit/s
95th percentile per-packet one-way delay: 103.398 ms
Loss rate: 2.85%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 19:46:15

End at: 2017-11-21 19:46:45

Below is generated by plot.py at 2017-11-22 00:11:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.49 Mbit/s

95th percentile per-packet one-way delay: 112.845 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 204.15 Mbit/s

95th percentile per-packet one-way delay: 109.824 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 121.904 ms

Loss rate: 0.69%

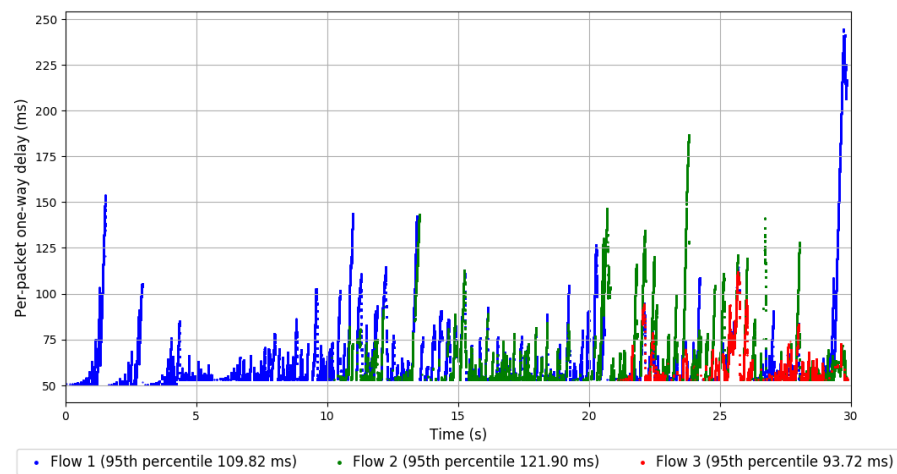
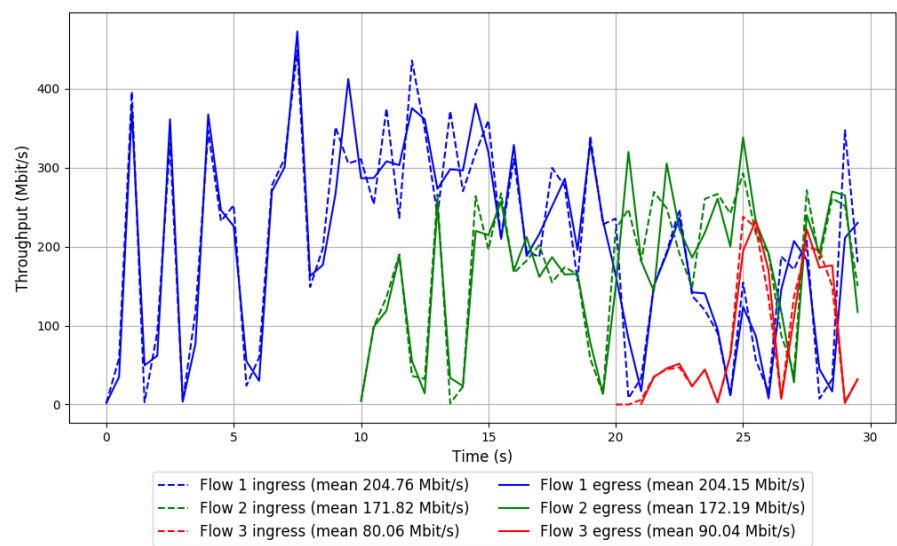
-- Flow 3:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 93.719 ms

Loss rate: 0.10%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 19:57:57

End at: 2017-11-21 19:58:27

Below is generated by plot.py at 2017-11-22 00:11:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.19 Mbit/s

95th percentile per-packet one-way delay: 74.448 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 191.17 Mbit/s

95th percentile per-packet one-way delay: 73.605 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 77.759 ms

Loss rate: 0.00%

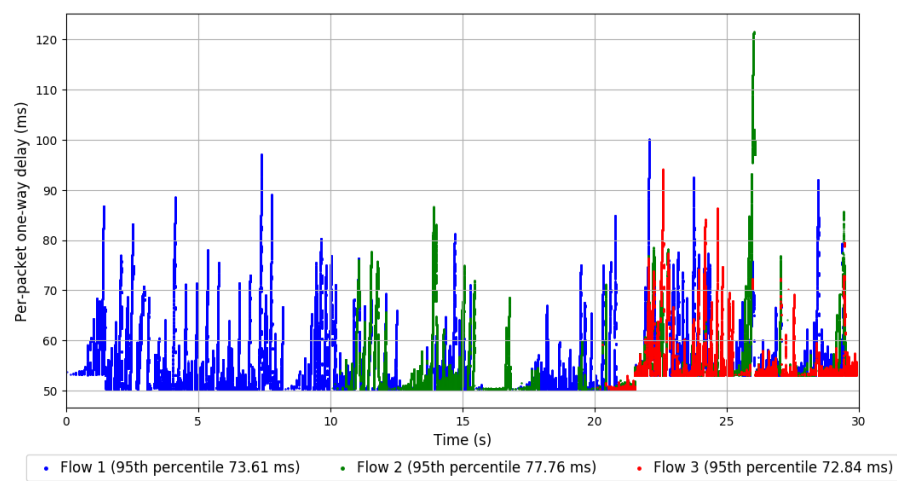
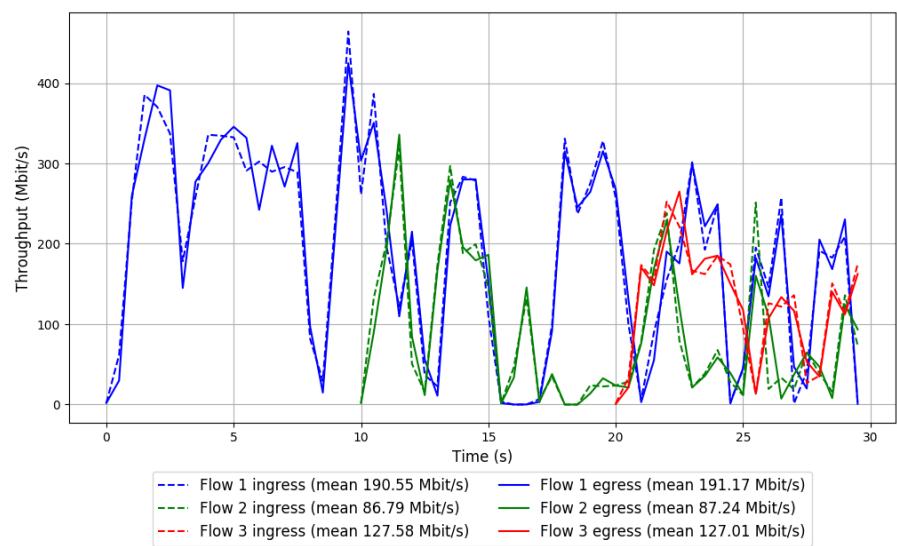
-- Flow 3:

Average throughput: 127.01 Mbit/s

95th percentile per-packet one-way delay: 72.843 ms

Loss rate: 1.02%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 20:09:30

End at: 2017-11-21 20:10:00

Below is generated by plot.py at 2017-11-22 00:12:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.24 Mbit/s

95th percentile per-packet one-way delay: 124.300 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 215.17 Mbit/s

95th percentile per-packet one-way delay: 120.354 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 186.53 Mbit/s

95th percentile per-packet one-way delay: 137.593 ms

Loss rate: 0.65%

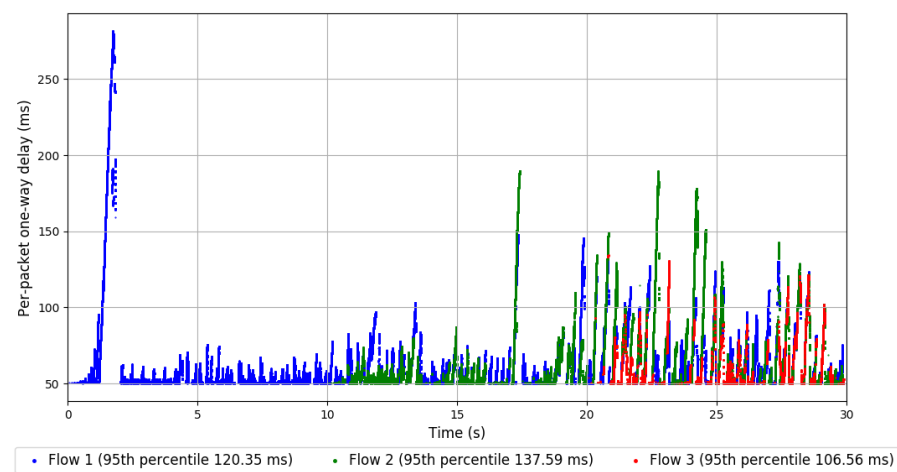
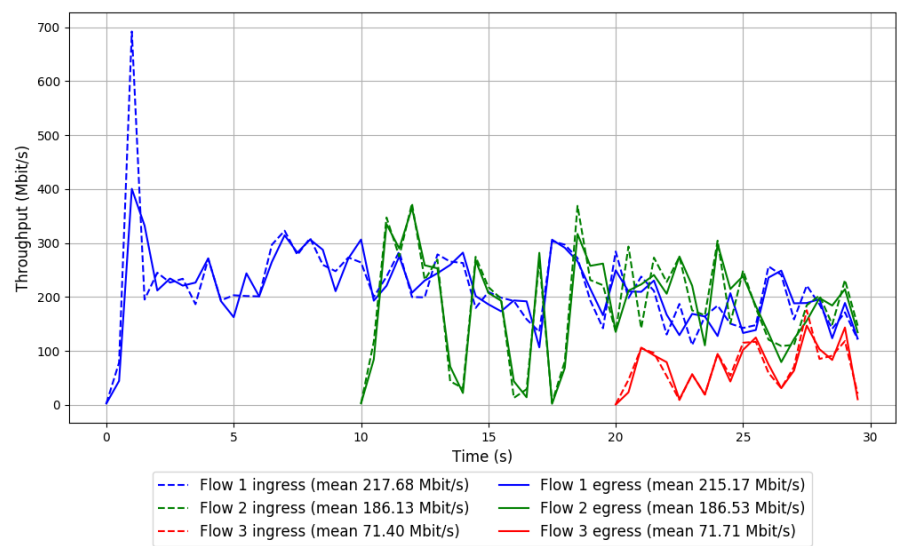
-- Flow 3:

Average throughput: 71.71 Mbit/s

95th percentile per-packet one-way delay: 106.555 ms

Loss rate: 0.75%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 20:21:06

End at: 2017-11-21 20:21:36

Below is generated by plot.py at 2017-11-22 00:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.01 Mbit/s

95th percentile per-packet one-way delay: 107.362 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 250.40 Mbit/s

95th percentile per-packet one-way delay: 108.933 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 181.84 Mbit/s

95th percentile per-packet one-way delay: 102.880 ms

Loss rate: 0.40%

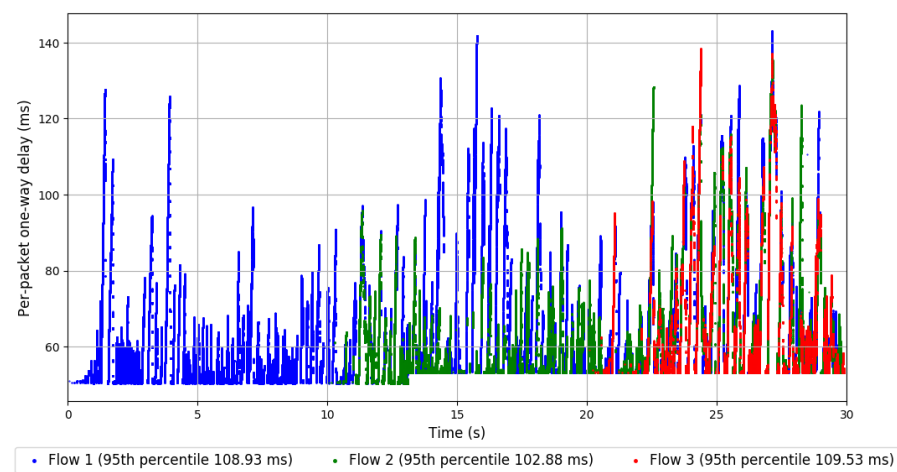
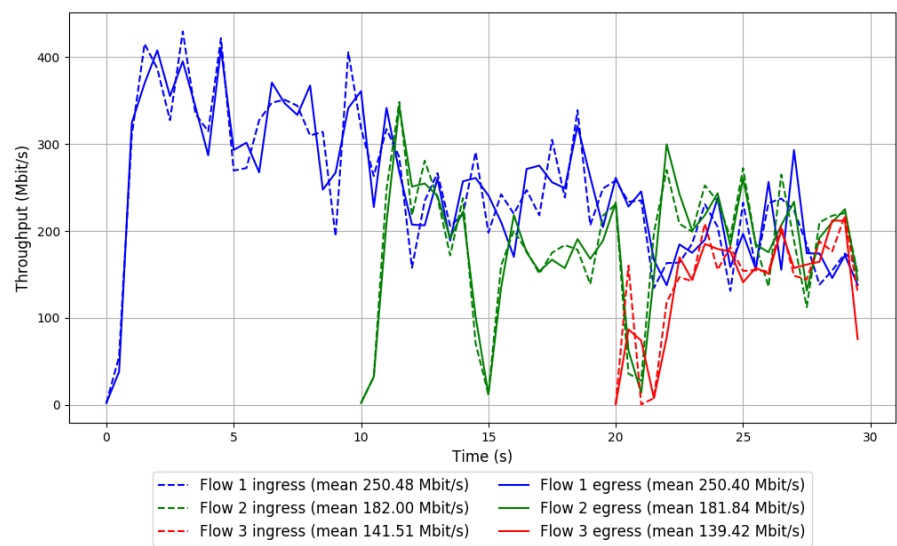
-- Flow 3:

Average throughput: 139.42 Mbit/s

95th percentile per-packet one-way delay: 109.532 ms

Loss rate: 2.18%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 20:32:53

End at: 2017-11-21 20:33:23

Below is generated by plot.py at 2017-11-22 00:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.90 Mbit/s

95th percentile per-packet one-way delay: 112.274 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 176.35 Mbit/s

95th percentile per-packet one-way delay: 116.351 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 145.93 Mbit/s

95th percentile per-packet one-way delay: 88.417 ms

Loss rate: 1.02%

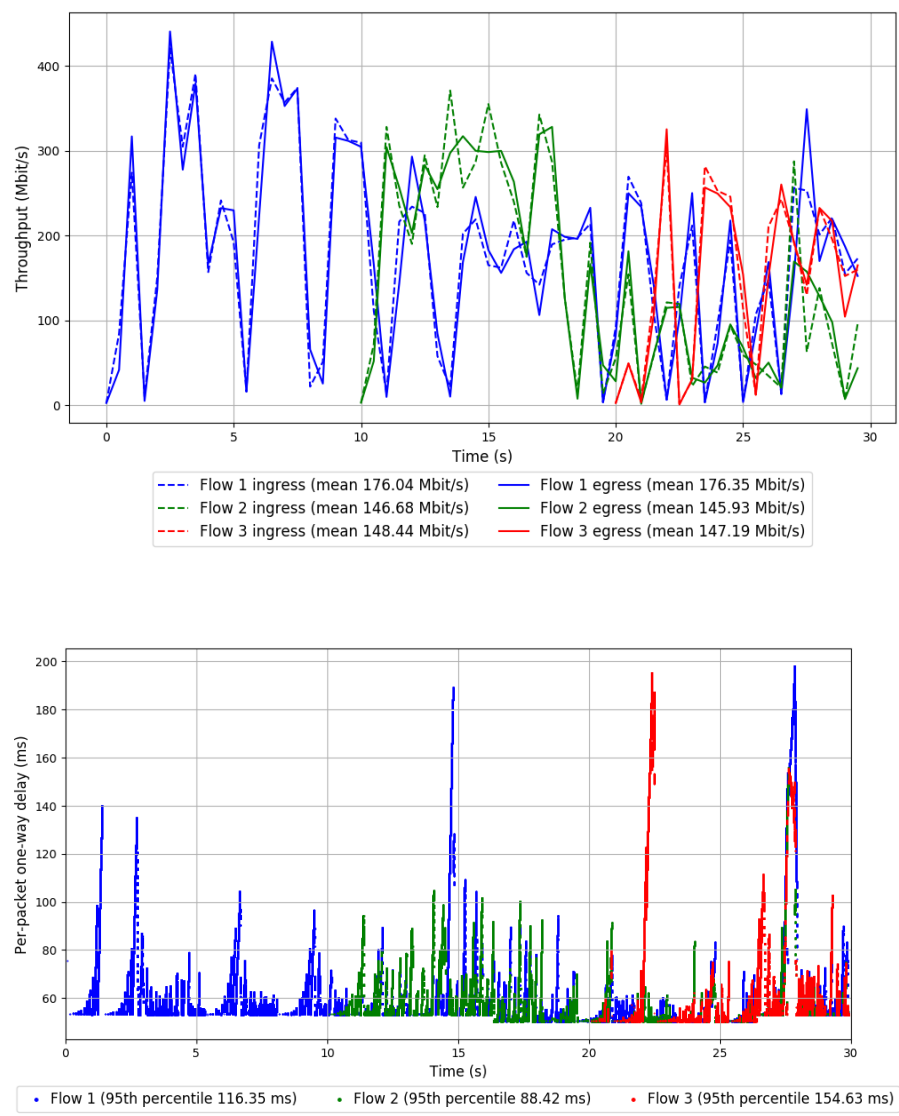
-- Flow 3:

Average throughput: 147.19 Mbit/s

95th percentile per-packet one-way delay: 154.626 ms

Loss rate: 1.89%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 20:45:10

End at: 2017-11-21 20:45:40

Below is generated by plot.py at 2017-11-22 00:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.27 Mbit/s

95th percentile per-packet one-way delay: 105.144 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 242.95 Mbit/s

95th percentile per-packet one-way delay: 112.653 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 167.75 Mbit/s

95th percentile per-packet one-way delay: 86.843 ms

Loss rate: 0.28%

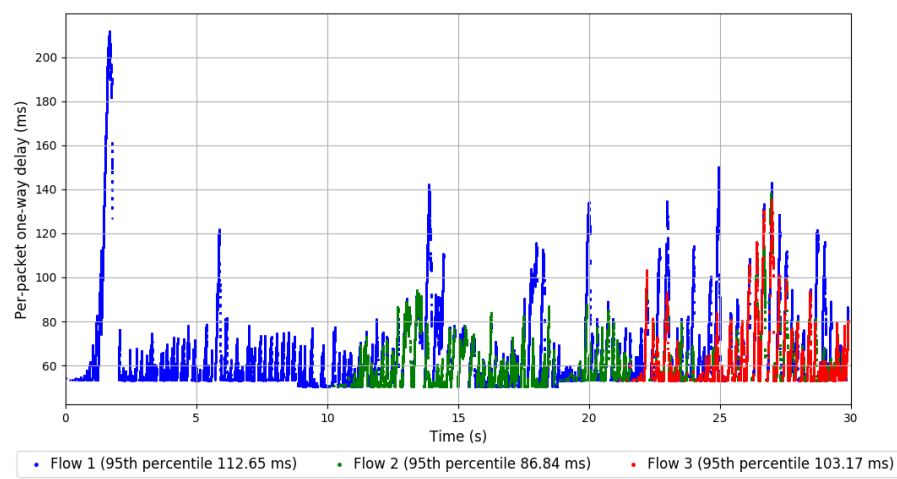
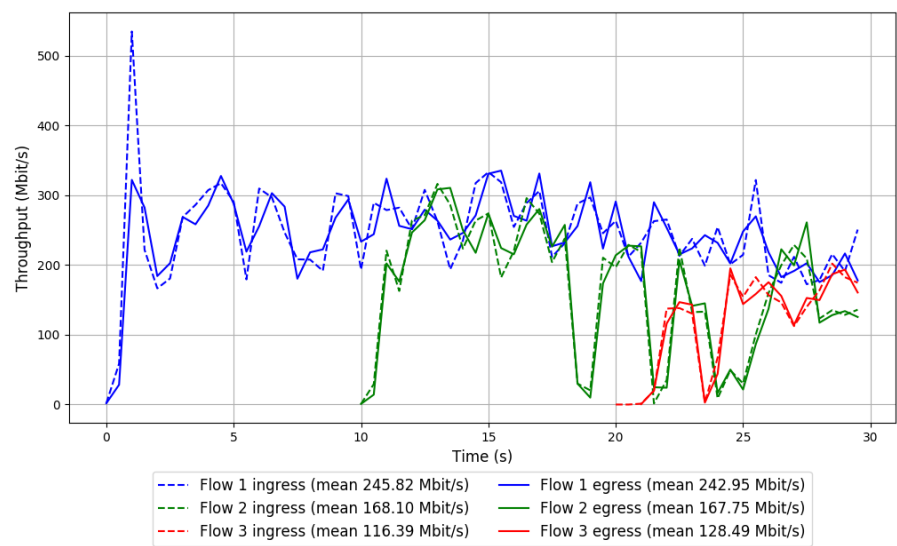
-- Flow 3:

Average throughput: 128.49 Mbit/s

95th percentile per-packet one-way delay: 103.167 ms

Loss rate: 1.68%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 20:57:41

End at: 2017-11-21 20:58:11

Below is generated by plot.py at 2017-11-22 00:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.13 Mbit/s

95th percentile per-packet one-way delay: 108.738 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 228.27 Mbit/s

95th percentile per-packet one-way delay: 104.983 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 151.57 Mbit/s

95th percentile per-packet one-way delay: 181.151 ms

Loss rate: 0.98%

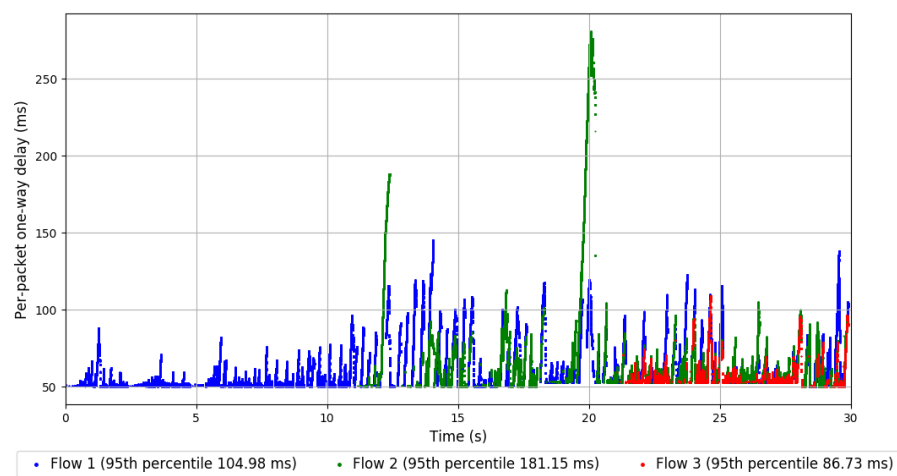
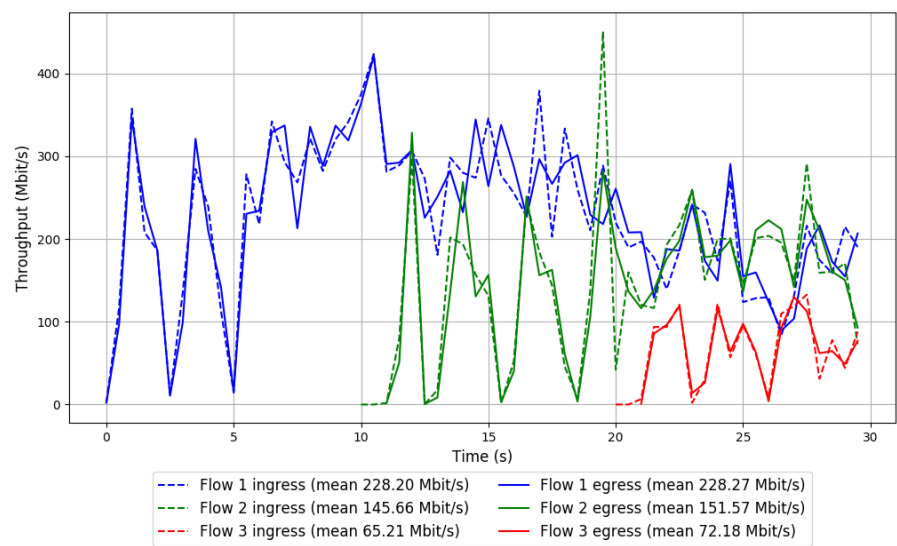
-- Flow 3:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 86.728 ms

Loss rate: 1.50%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 21:09:19

End at: 2017-11-21 21:09:49

Below is generated by plot.py at 2017-11-22 00:16:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.36 Mbit/s

95th percentile per-packet one-way delay: 112.395 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 223.53 Mbit/s

95th percentile per-packet one-way delay: 114.281 ms

Loss rate: 1.96%

-- Flow 2:

Average throughput: 116.68 Mbit/s

95th percentile per-packet one-way delay: 118.059 ms

Loss rate: 0.89%

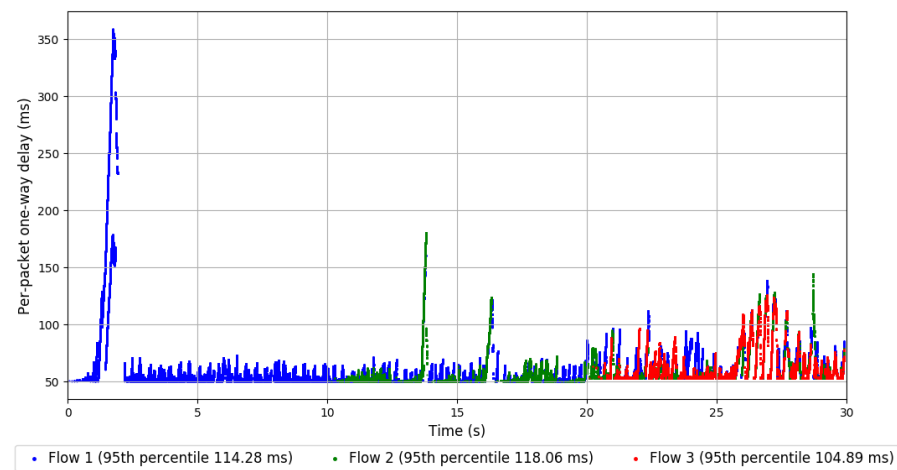
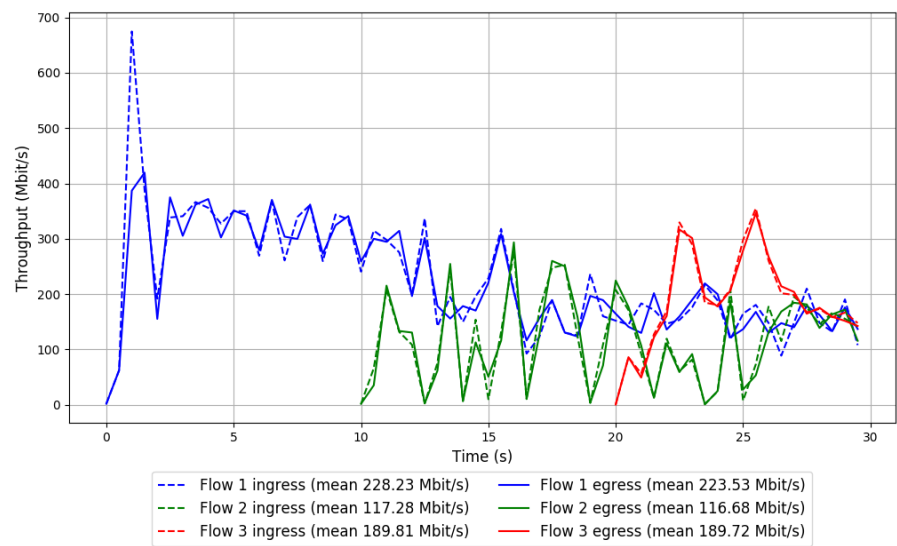
-- Flow 3:

Average throughput: 189.72 Mbit/s

95th percentile per-packet one-way delay: 104.892 ms

Loss rate: 1.08%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 21:20:58

End at: 2017-11-21 21:21:28

Below is generated by plot.py at 2017-11-22 00:17:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.58 Mbit/s

95th percentile per-packet one-way delay: 117.821 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 260.28 Mbit/s

95th percentile per-packet one-way delay: 97.889 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 169.26 Mbit/s

95th percentile per-packet one-way delay: 270.885 ms

Loss rate: 5.90%

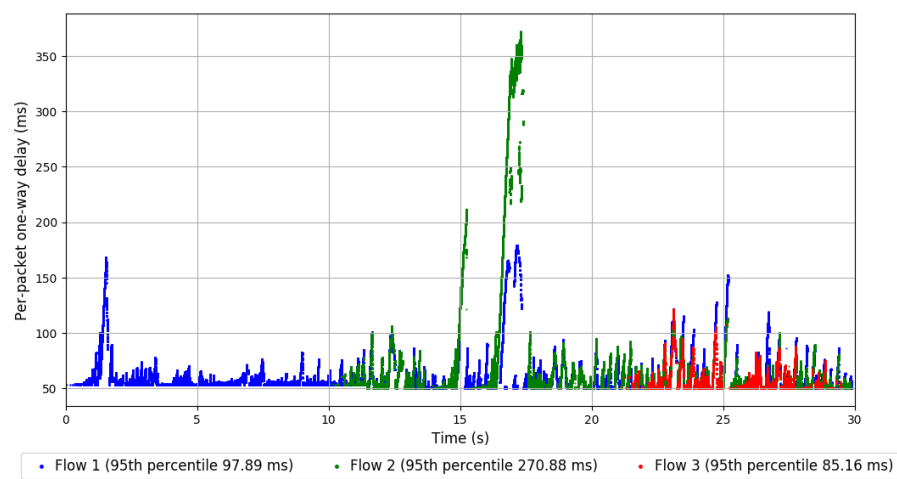
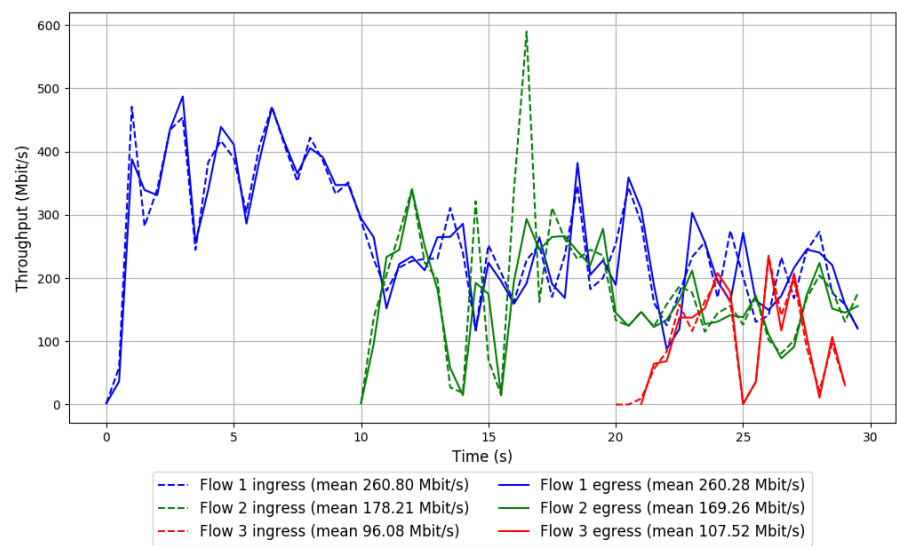
-- Flow 3:

Average throughput: 107.52 Mbit/s

95th percentile per-packet one-way delay: 85.157 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

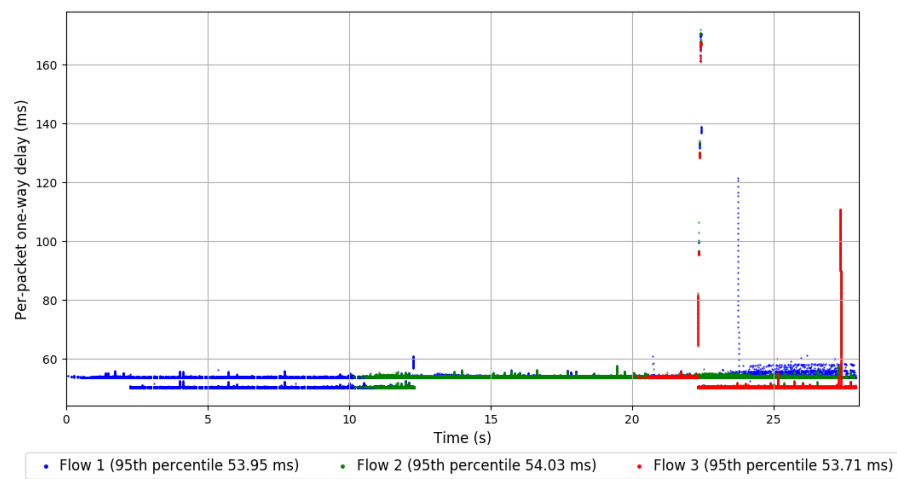
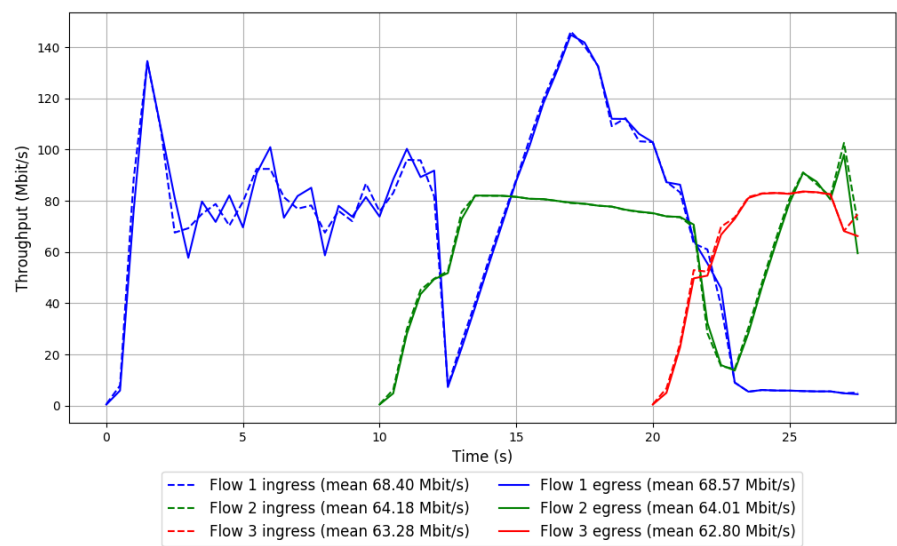


```
Run 1: Statistics of Copa

Start at: 2017-11-21 19:40:15
End at: 2017-11-21 19:40:45

# Below is generated by plot.py at 2017-11-22 00:17:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.06 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 68.57 Mbit/s
95th percentile per-packet one-way delay: 53.954 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 64.01 Mbit/s
95th percentile per-packet one-way delay: 54.032 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 62.80 Mbit/s
95th percentile per-packet one-way delay: 53.713 ms
Loss rate: 2.07%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 19:51:47

End at: 2017-11-21 19:52:17

Below is generated by plot.py at 2017-11-22 00:17:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.36 Mbit/s

95th percentile per-packet one-way delay: 53.254 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 53.217 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 53.225 ms

Loss rate: 0.55%

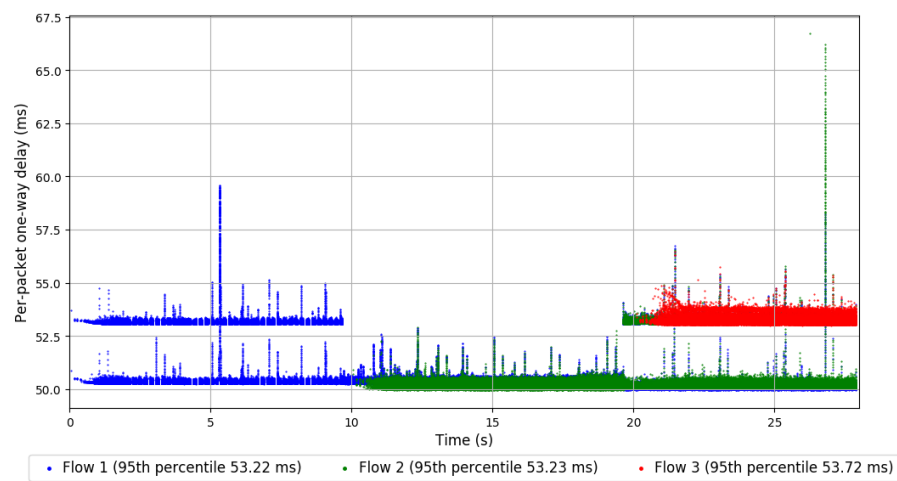
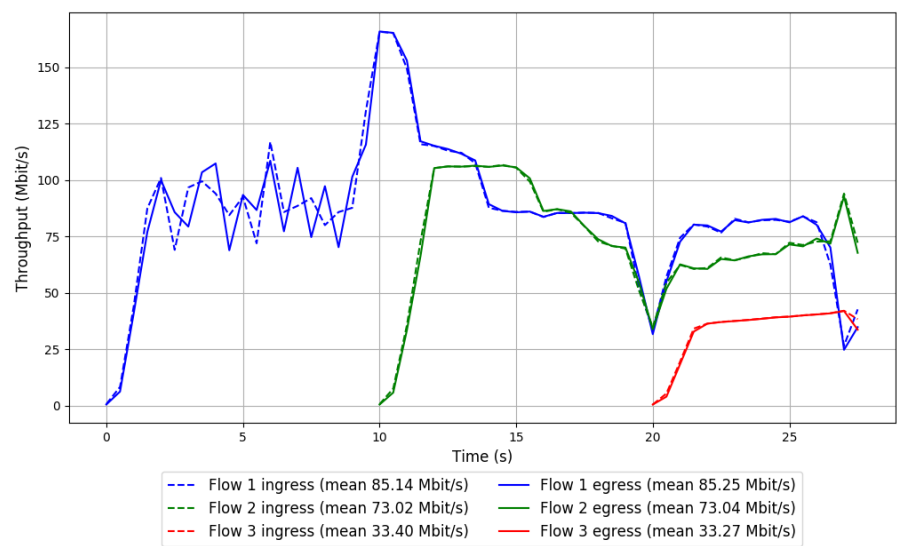
-- Flow 3:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 1.74%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 20:03:28

End at: 2017-11-21 20:03:58

Below is generated by plot.py at 2017-11-22 00:17:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.45 Mbit/s

95th percentile per-packet one-way delay: 53.921 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 73.22 Mbit/s

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 65.90 Mbit/s

95th percentile per-packet one-way delay: 53.909 ms

Loss rate: 0.66%

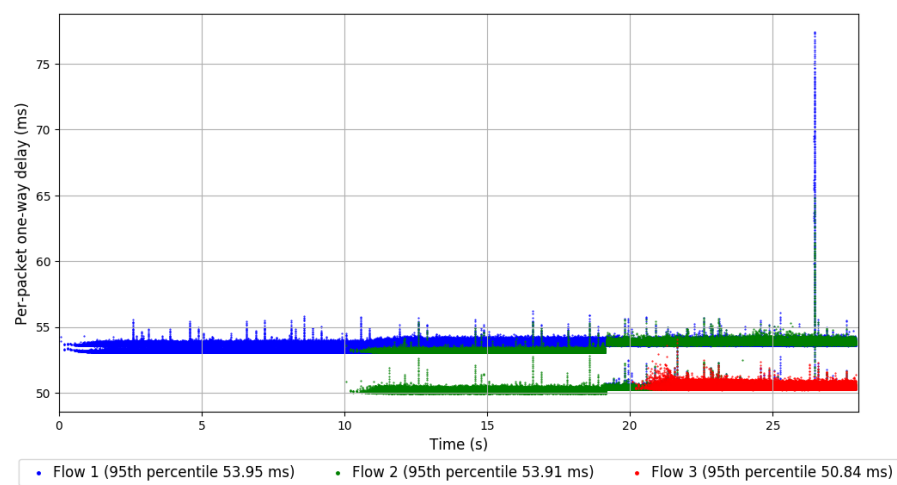
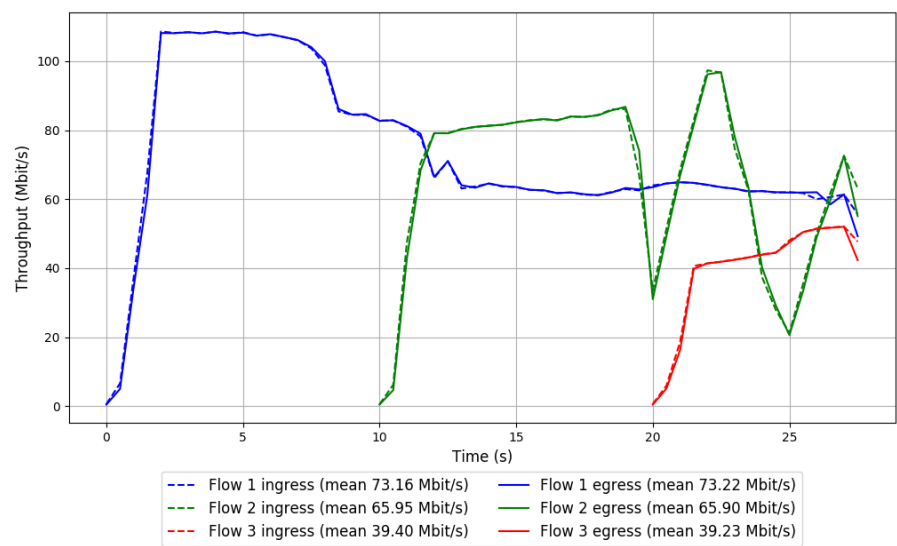
-- Flow 3:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 1.72%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 20:15:03

End at: 2017-11-21 20:15:33

Below is generated by plot.py at 2017-11-22 00:17:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.22 Mbit/s

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

Loss rate: 0.83%

-- Flow 1:

Average throughput: 57.23 Mbit/s

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

Loss rate: 0.58%

-- Flow 2:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 53.244 ms

Loss rate: 0.67%

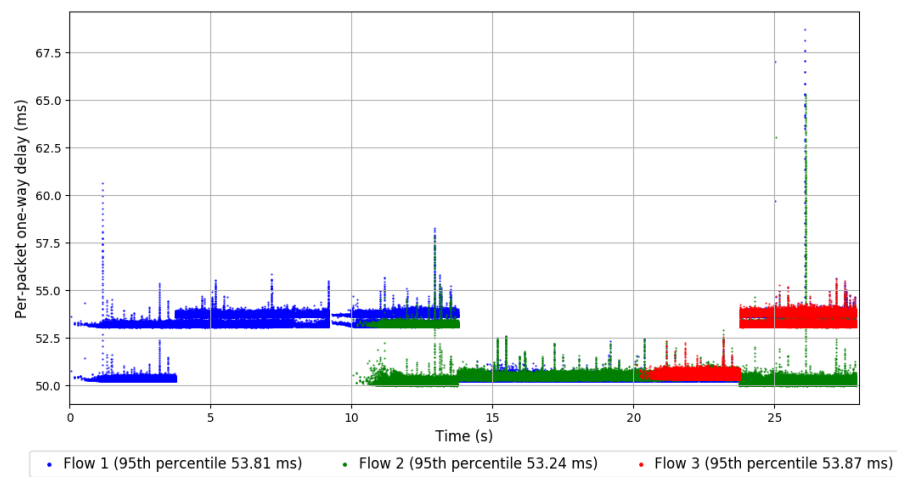
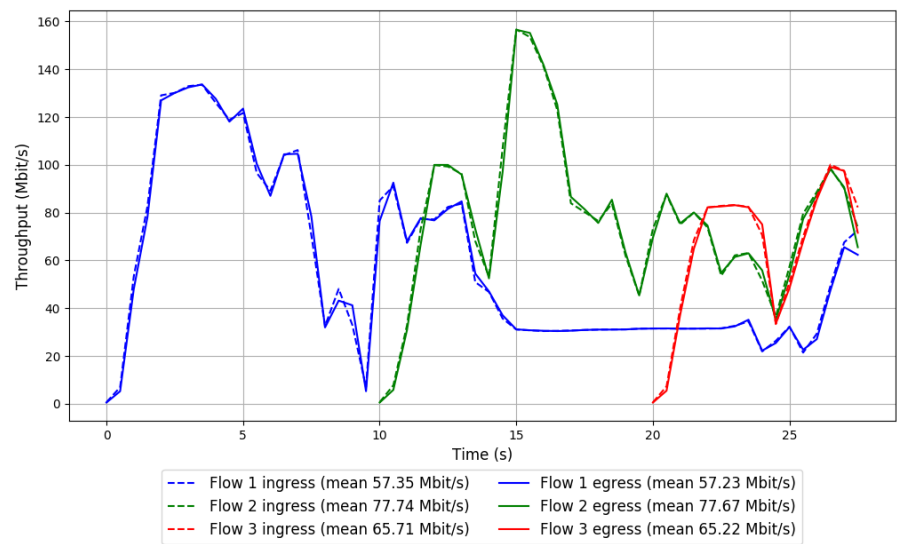
-- Flow 3:

Average throughput: 65.22 Mbit/s

95th percentile per-packet one-way delay: 53.874 ms

Loss rate: 2.05%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 20:26:51

End at: 2017-11-21 20:27:21

Below is generated by plot.py at 2017-11-22 00:18:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.23 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 73.69 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 0.48%

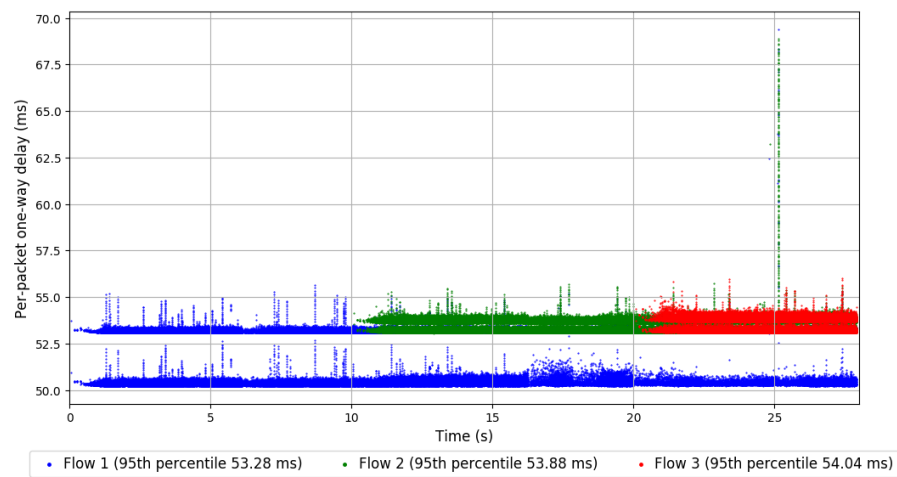
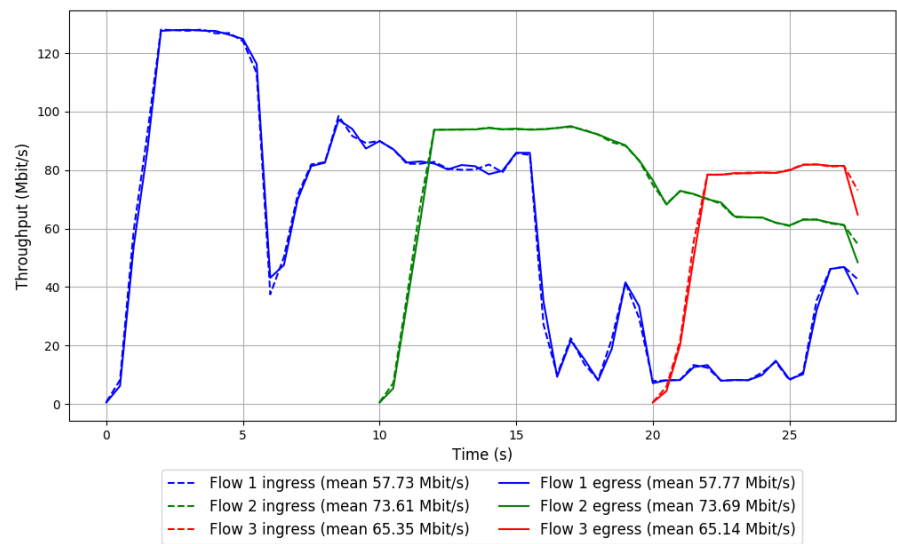
-- Flow 3:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 54.042 ms

Loss rate: 1.63%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 20:39:11

End at: 2017-11-21 20:39:41

Below is generated by plot.py at 2017-11-22 00:19:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.82 Mbit/s

95th percentile per-packet one-way delay: 53.325 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 53.225 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 65.68 Mbit/s

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

Loss rate: 0.62%

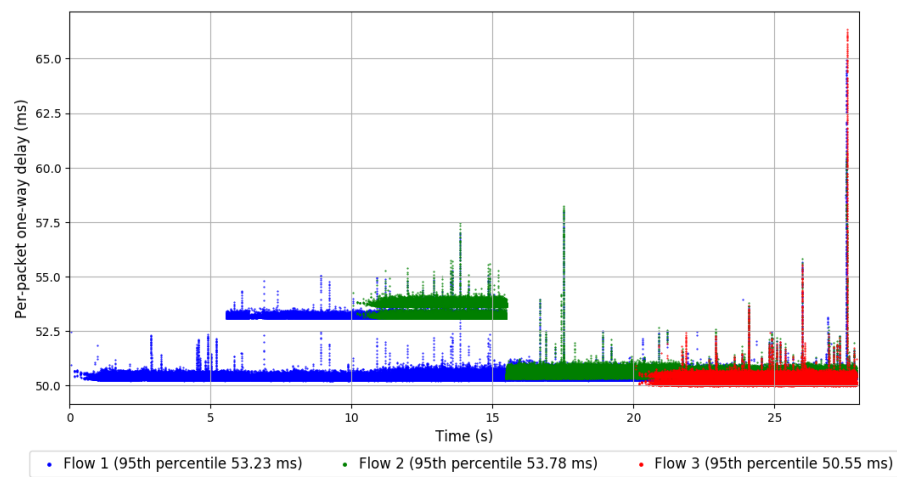
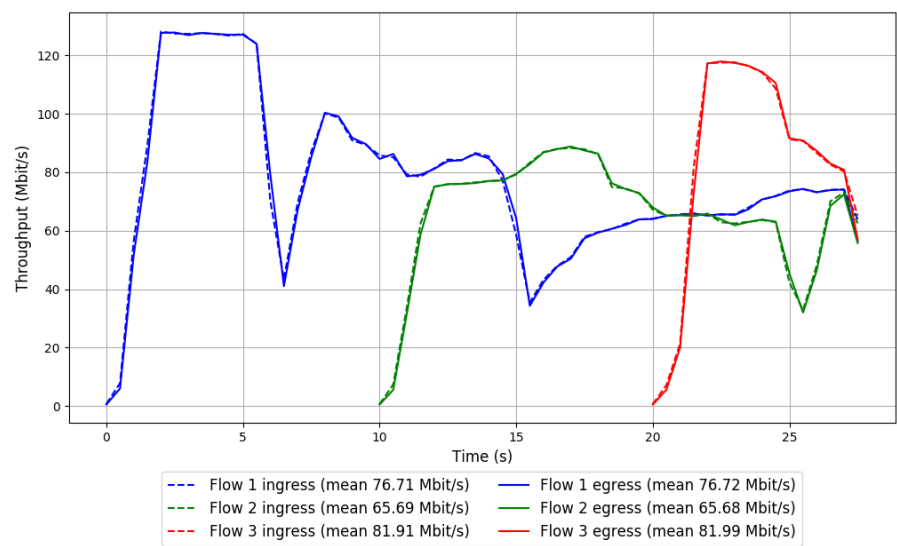
-- Flow 3:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 50.552 ms

Loss rate: 1.22%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 20:51:34

End at: 2017-11-21 20:52:04

Below is generated by plot.py at 2017-11-22 00:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.26 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 53.264 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 53.750 ms

Loss rate: 0.61%

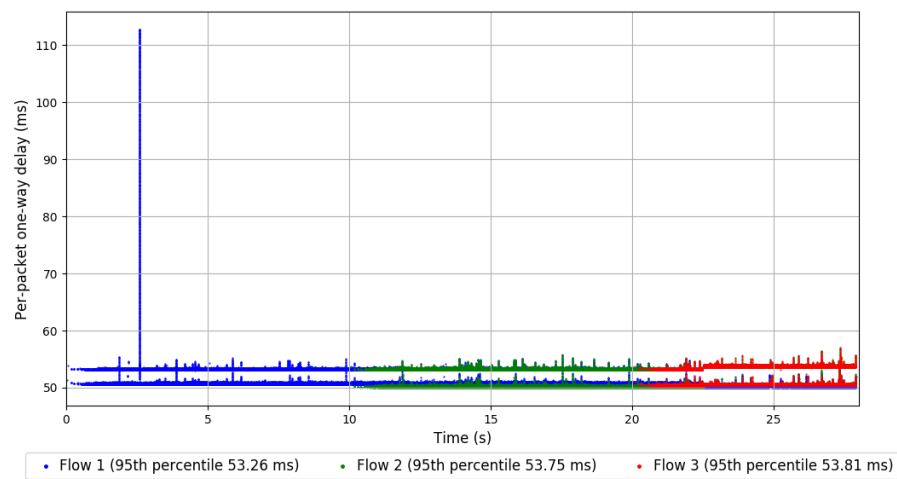
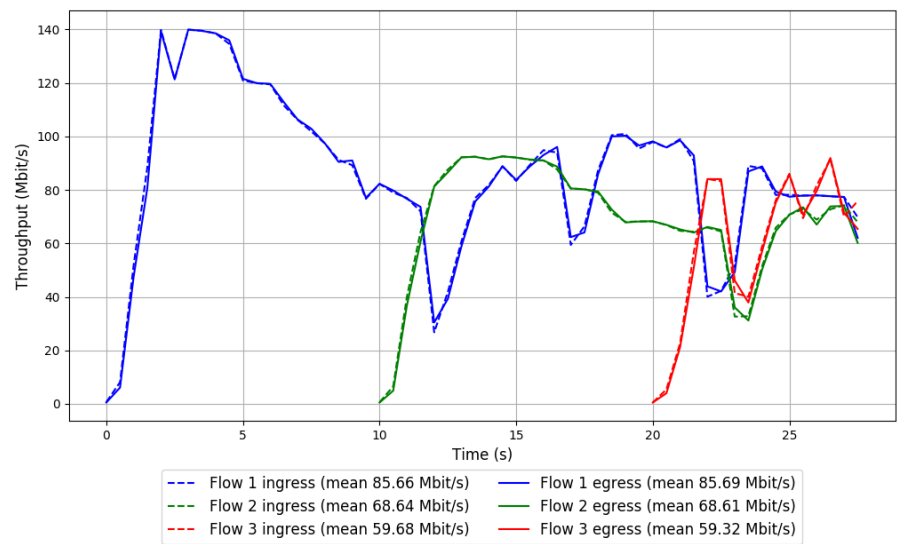
-- Flow 3:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 1.89%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 21:03:21

End at: 2017-11-21 21:03:51

Below is generated by plot.py at 2017-11-22 00:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 53.829 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 50.15 Mbit/s

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

Loss rate: 0.08%

-- Flow 2:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 53.323 ms

Loss rate: 0.00%

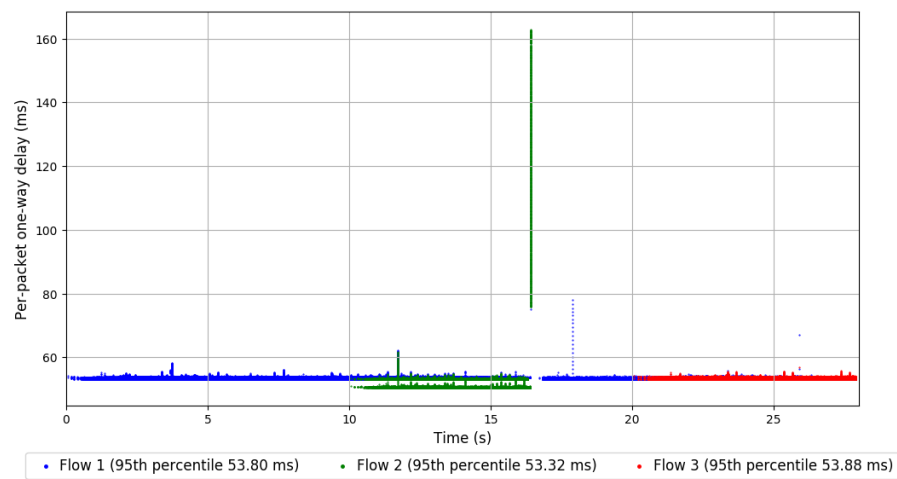
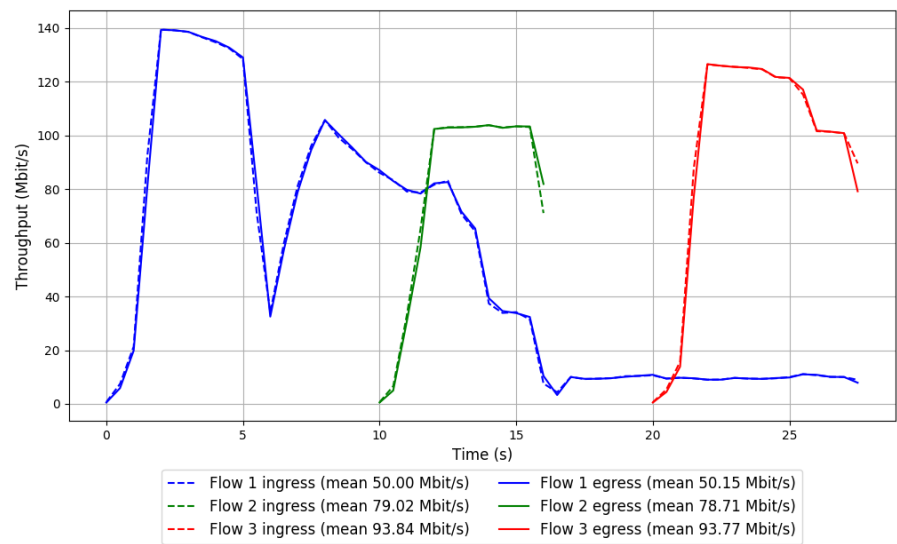
-- Flow 3:

Average throughput: 93.77 Mbit/s

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

Loss rate: 1.42%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 21:15:01

End at: 2017-11-21 21:15:31

Below is generated by plot.py at 2017-11-22 00:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.91 Mbit/s

95th percentile per-packet one-way delay: 53.958 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 69.76 Mbit/s

95th percentile per-packet one-way delay: 53.967 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 53.911 ms

Loss rate: 0.26%

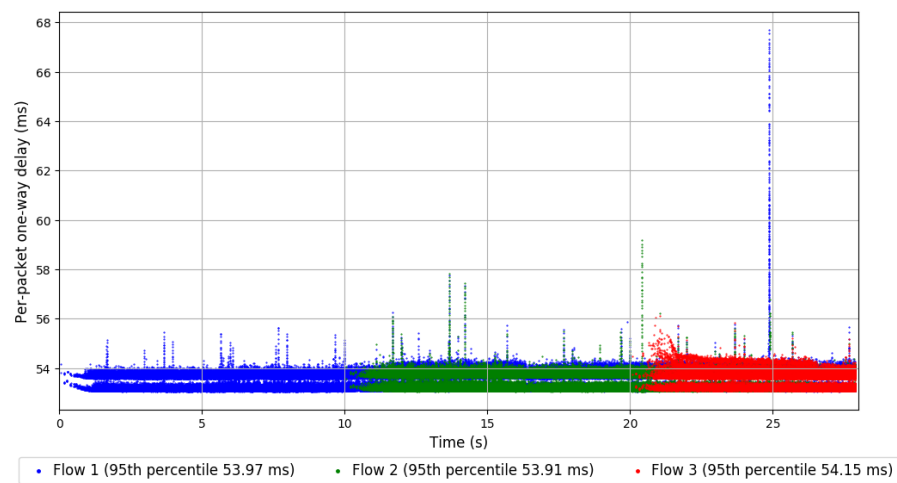
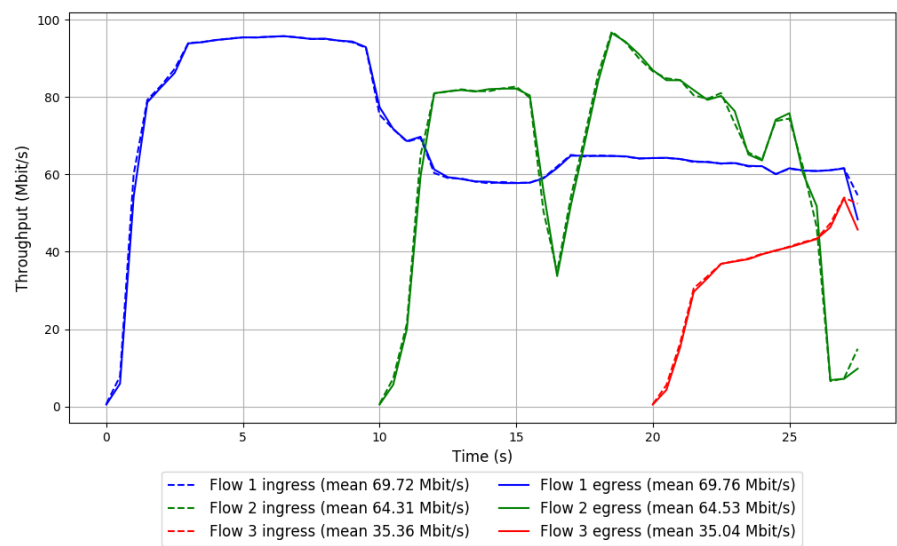
-- Flow 3:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 2.25%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 21:26:48

End at: 2017-11-21 21:27:18

Below is generated by plot.py at 2017-11-22 00:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.04 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 53.713 ms

Loss rate: 0.57%

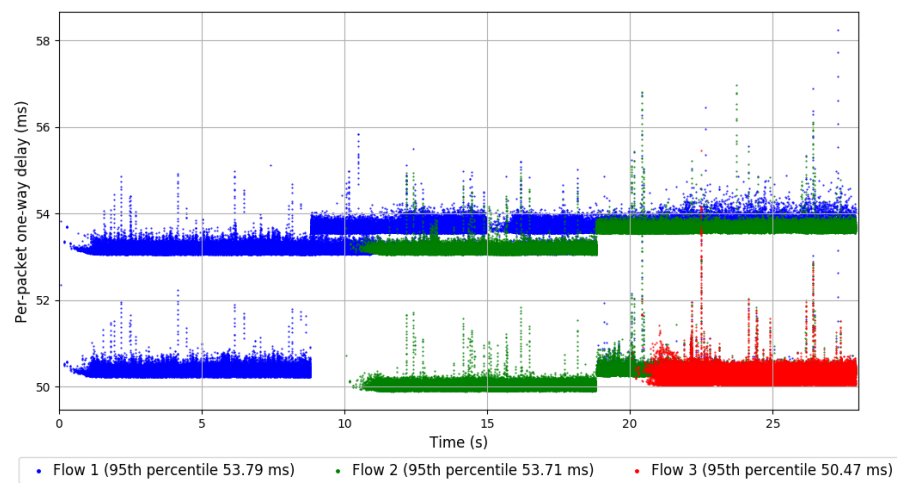
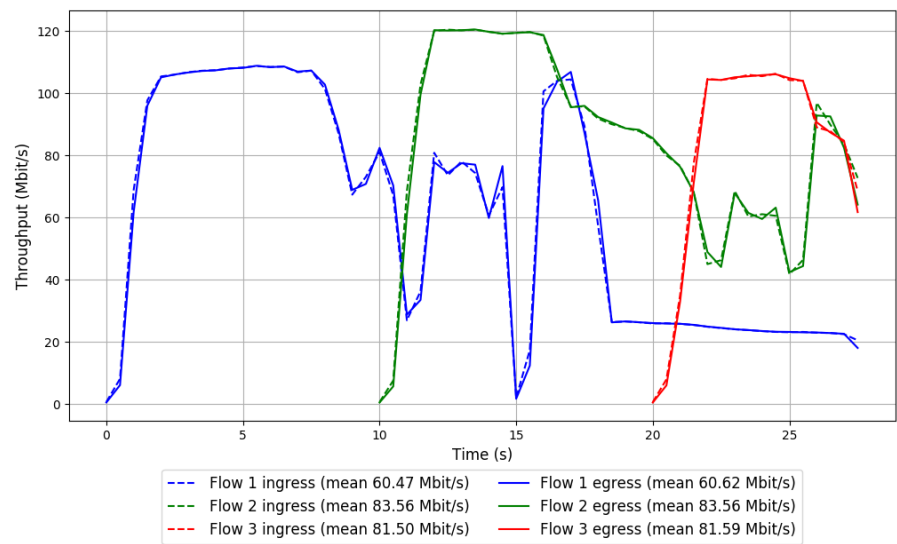
-- Flow 3:

Average throughput: 81.59 Mbit/s

95th percentile per-packet one-way delay: 50.465 ms

Loss rate: 1.18%

Run 10: Report of Copa — Data Link

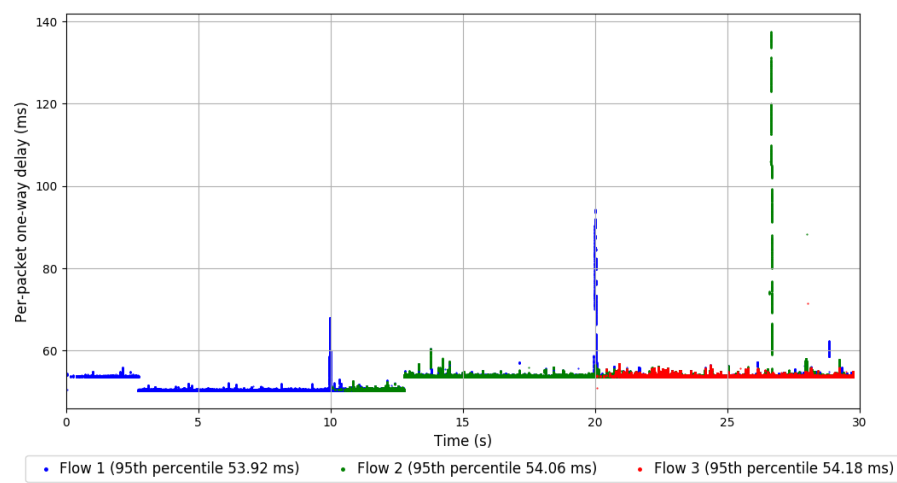
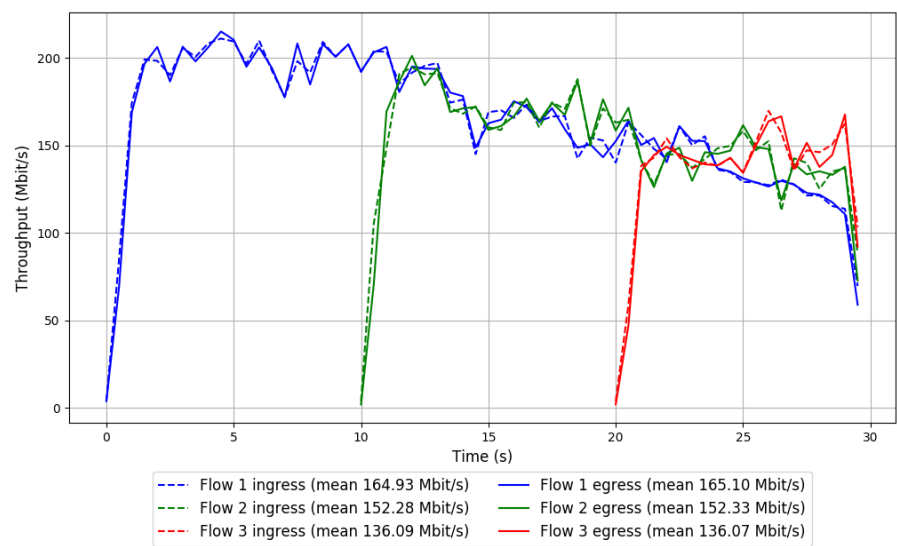


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 19:31:26
End at: 2017-11-21 19:31:56

# Below is generated by plot.py at 2017-11-22 00:22:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.25 Mbit/s
95th percentile per-packet one-way delay: 54.002 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 165.10 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 152.33 Mbit/s
95th percentile per-packet one-way delay: 54.059 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 136.07 Mbit/s
95th percentile per-packet one-way delay: 54.178 ms
Loss rate: 1.08%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 19:43:38

End at: 2017-11-21 19:44:08

Below is generated by plot.py at 2017-11-22 00:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.85 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 172.79 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 161.75 Mbit/s

95th percentile per-packet one-way delay: 53.307 ms

Loss rate: 0.48%

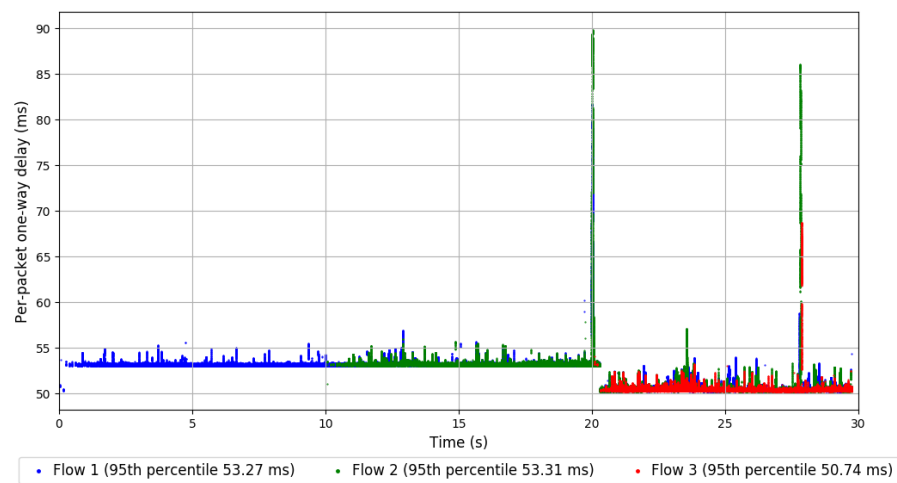
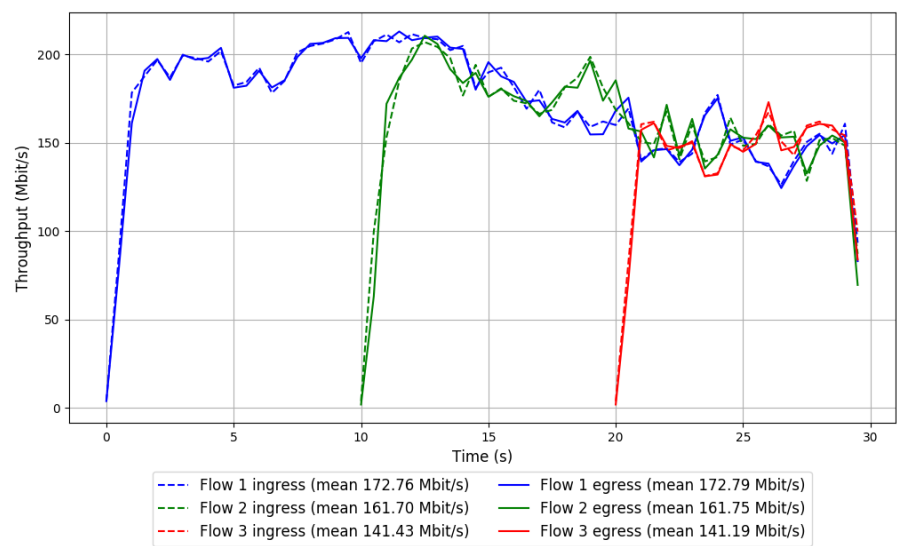
-- Flow 3:

Average throughput: 141.19 Mbit/s

95th percentile per-packet one-way delay: 50.740 ms

Loss rate: 1.24%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 19:55:21

End at: 2017-11-21 19:55:51

Below is generated by plot.py at 2017-11-22 00:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.37 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 172.25 Mbit/s

95th percentile per-packet one-way delay: 53.264 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 145.94 Mbit/s

95th percentile per-packet one-way delay: 53.269 ms

Loss rate: 0.31%

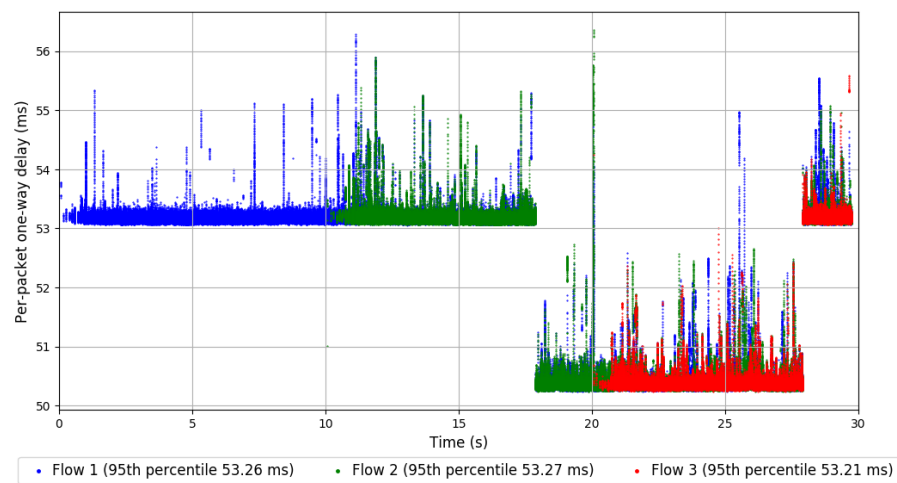
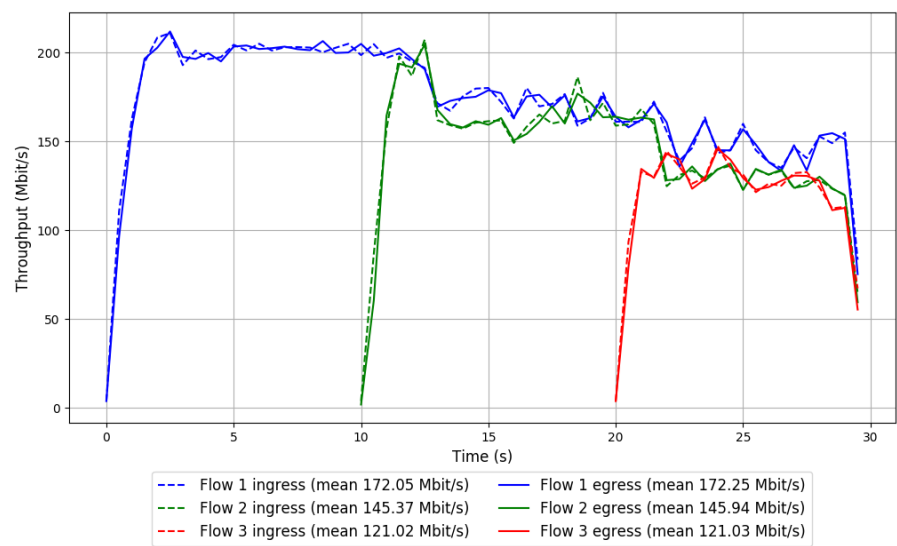
-- Flow 3:

Average throughput: 121.03 Mbit/s

95th percentile per-packet one-way delay: 53.214 ms

Loss rate: 1.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 20:06:57

End at: 2017-11-21 20:07:27

Below is generated by plot.py at 2017-11-22 00:24:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.53 Mbit/s

95th percentile per-packet one-way delay: 53.436 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 168.06 Mbit/s

95th percentile per-packet one-way delay: 53.396 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 157.06 Mbit/s

95th percentile per-packet one-way delay: 53.465 ms

Loss rate: 0.49%

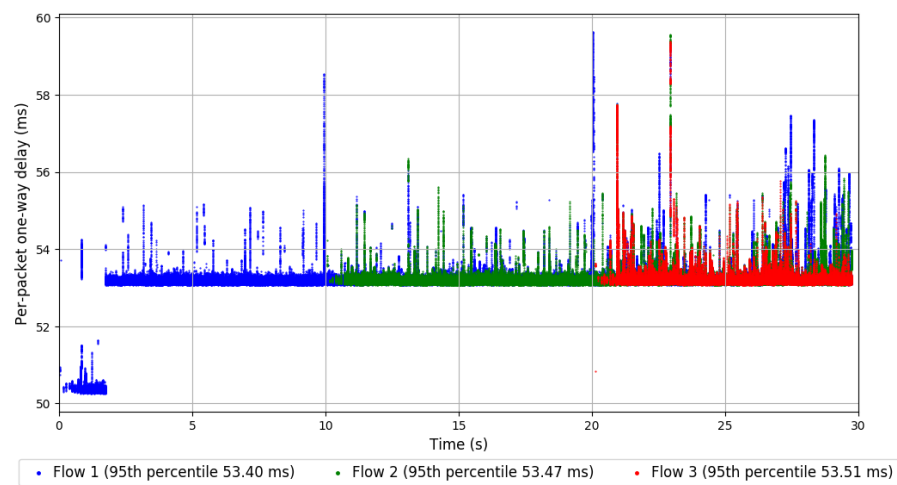
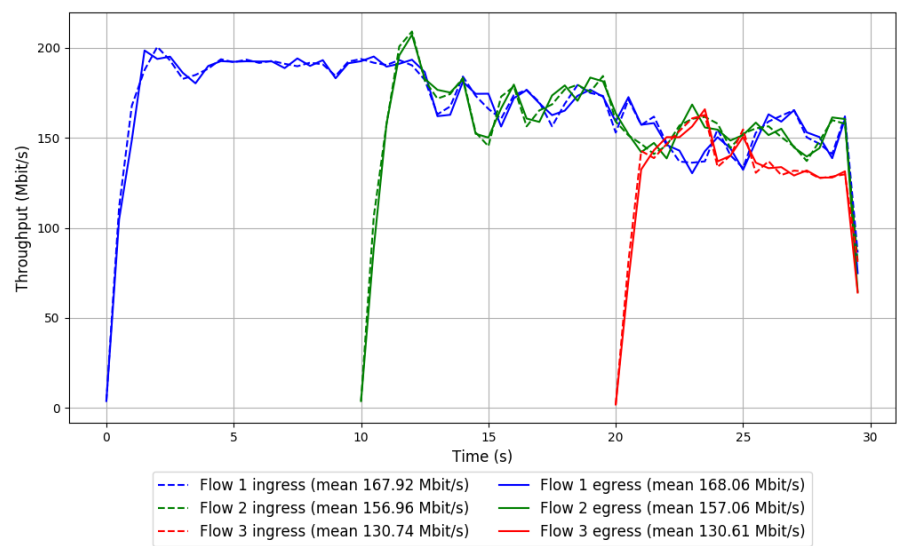
-- Flow 3:

Average throughput: 130.61 Mbit/s

95th percentile per-packet one-way delay: 53.508 ms

Loss rate: 1.17%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 20:18:31

End at: 2017-11-21 20:19:01

Below is generated by plot.py at 2017-11-22 00:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.24 Mbit/s

95th percentile per-packet one-way delay: 53.311 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 173.26 Mbit/s

95th percentile per-packet one-way delay: 53.287 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 146.61 Mbit/s

95th percentile per-packet one-way delay: 53.313 ms

Loss rate: 0.43%

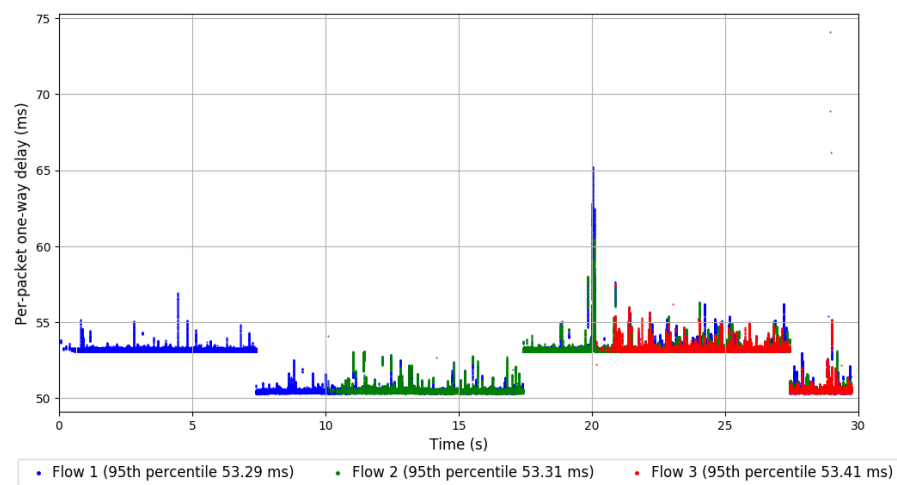
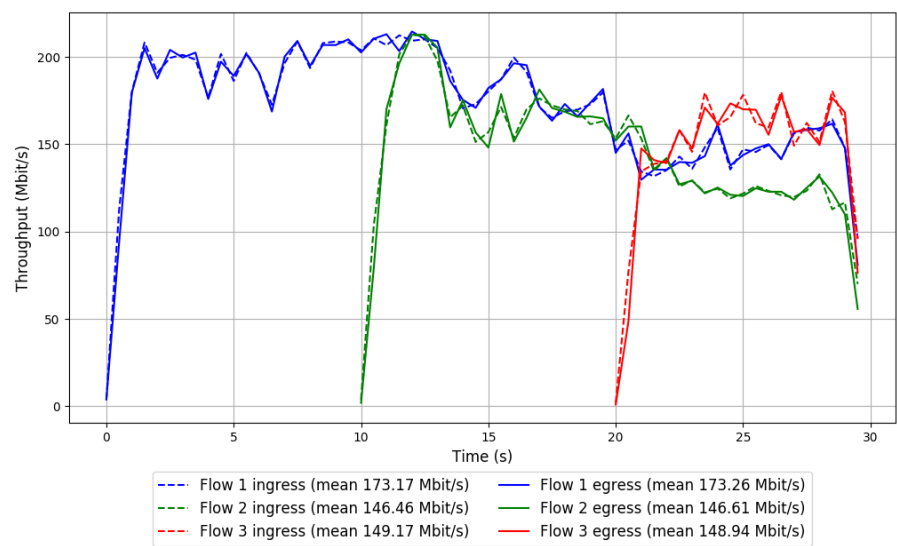
-- Flow 3:

Average throughput: 148.94 Mbit/s

95th percentile per-packet one-way delay: 53.408 ms

Loss rate: 1.23%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 20:30:20

End at: 2017-11-21 20:30:50

Below is generated by plot.py at 2017-11-22 00:25:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.60 Mbit/s

95th percentile per-packet one-way delay: 53.543 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 171.25 Mbit/s

95th percentile per-packet one-way delay: 53.476 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 152.53 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 0.47%

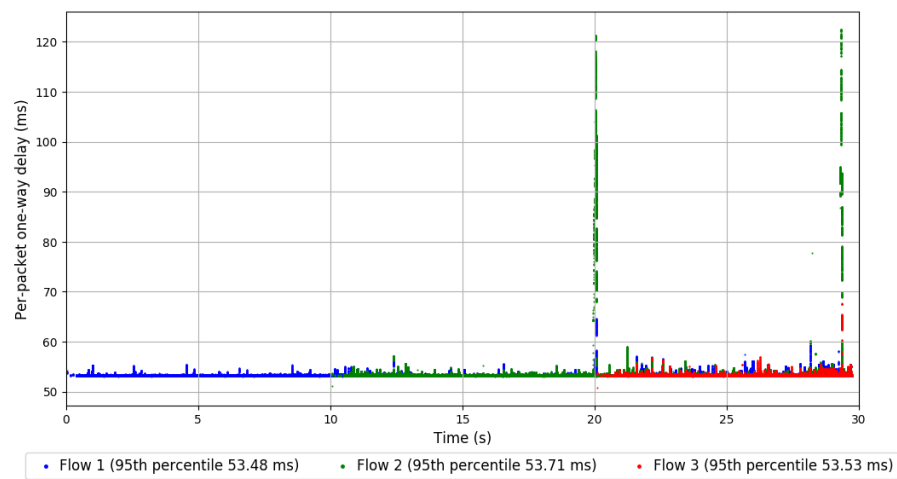
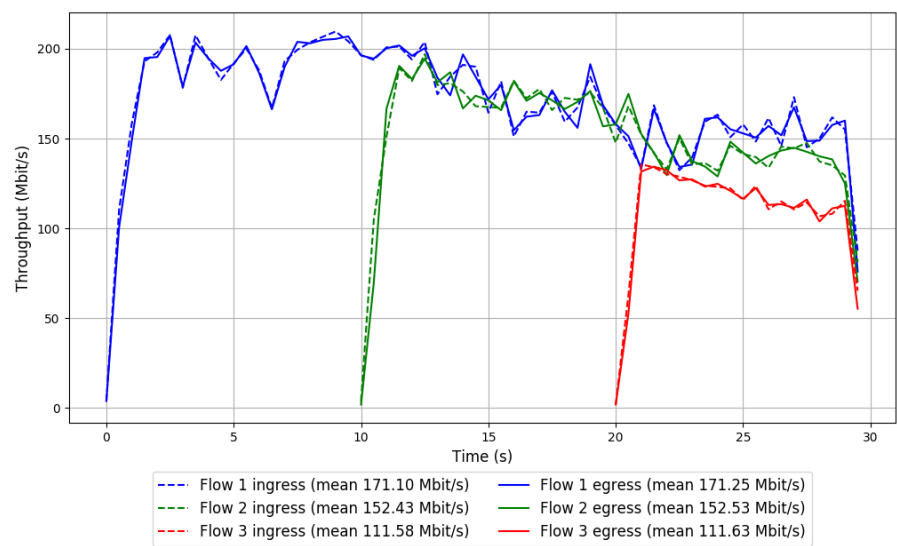
-- Flow 3:

Average throughput: 111.63 Mbit/s

95th percentile per-packet one-way delay: 53.535 ms

Loss rate: 1.07%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 20:42:39

End at: 2017-11-21 20:43:09

Below is generated by plot.py at 2017-11-22 00:25:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.30 Mbit/s

95th percentile per-packet one-way delay: 53.402 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 163.19 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 156.32 Mbit/s

95th percentile per-packet one-way delay: 53.545 ms

Loss rate: 0.47%

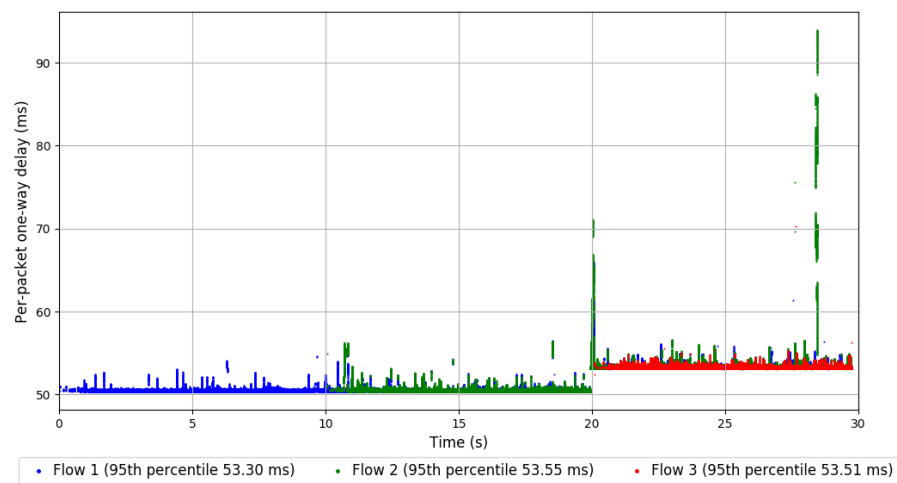
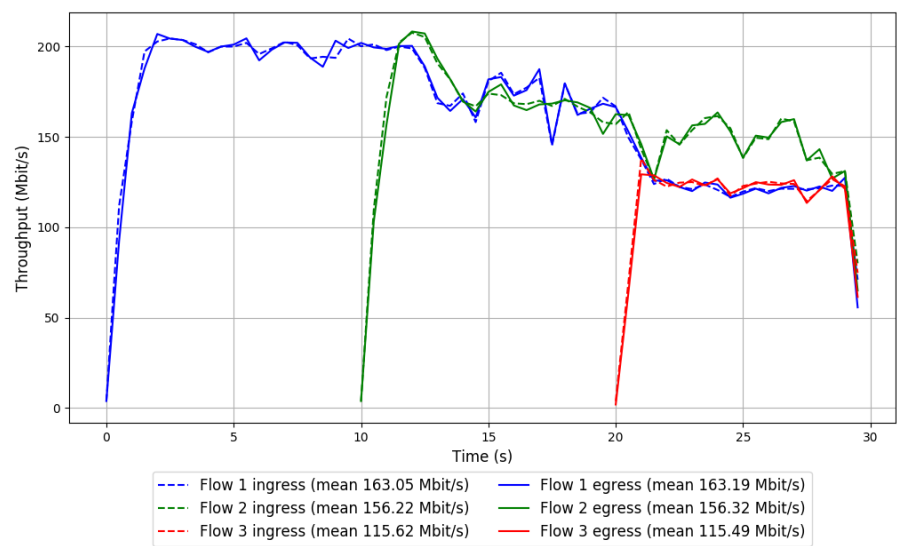
-- Flow 3:

Average throughput: 115.49 Mbit/s

95th percentile per-packet one-way delay: 53.513 ms

Loss rate: 1.17%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 20:55:06

End at: 2017-11-21 20:55:36

Below is generated by plot.py at 2017-11-22 00:25:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.77 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 164.31 Mbit/s

95th percentile per-packet one-way delay: 53.404 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 158.25 Mbit/s

95th percentile per-packet one-way delay: 53.711 ms

Loss rate: 0.61%

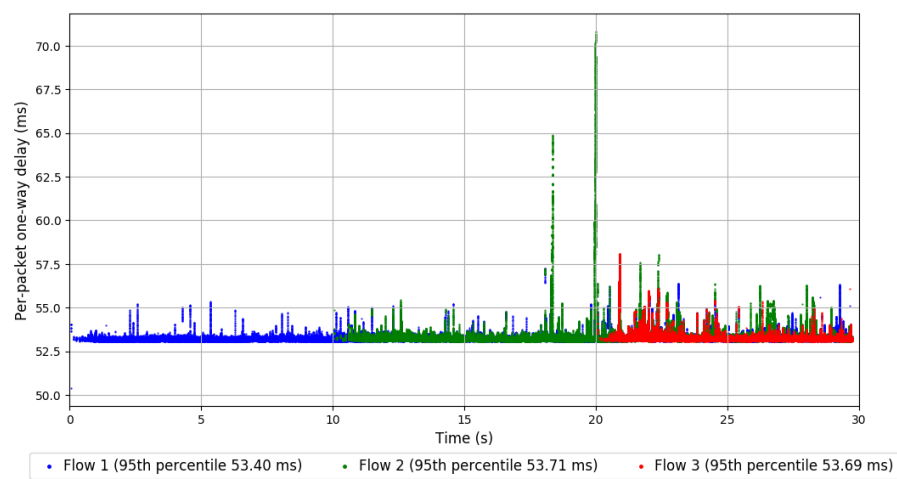
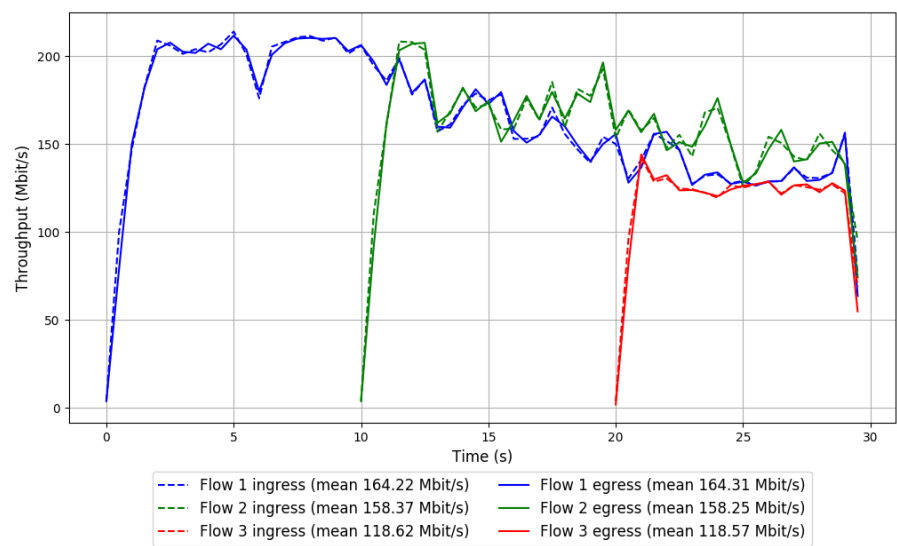
-- Flow 3:

Average throughput: 118.57 Mbit/s

95th percentile per-packet one-way delay: 53.689 ms

Loss rate: 1.12%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 21:06:46

End at: 2017-11-21 21:07:16

Below is generated by plot.py at 2017-11-22 00:27:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.36 Mbit/s

95th percentile per-packet one-way delay: 53.310 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 163.14 Mbit/s

95th percentile per-packet one-way delay: 53.297 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 148.15 Mbit/s

95th percentile per-packet one-way delay: 53.336 ms

Loss rate: 0.34%

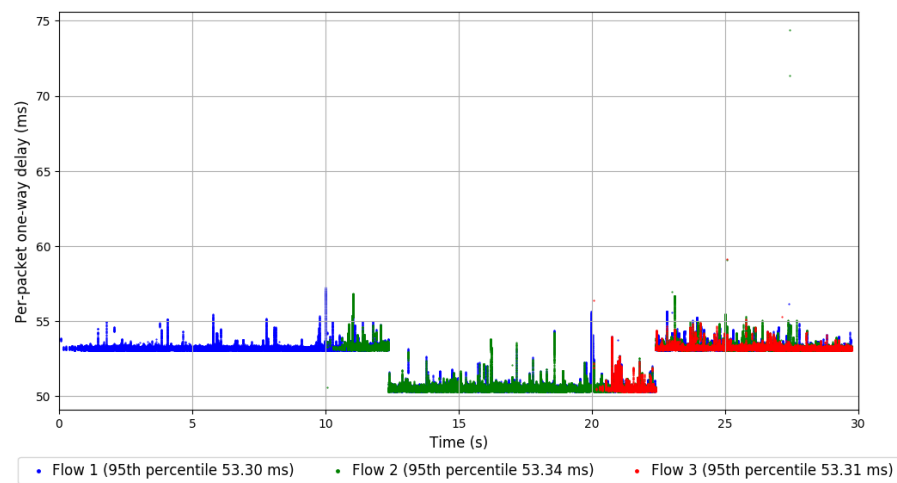
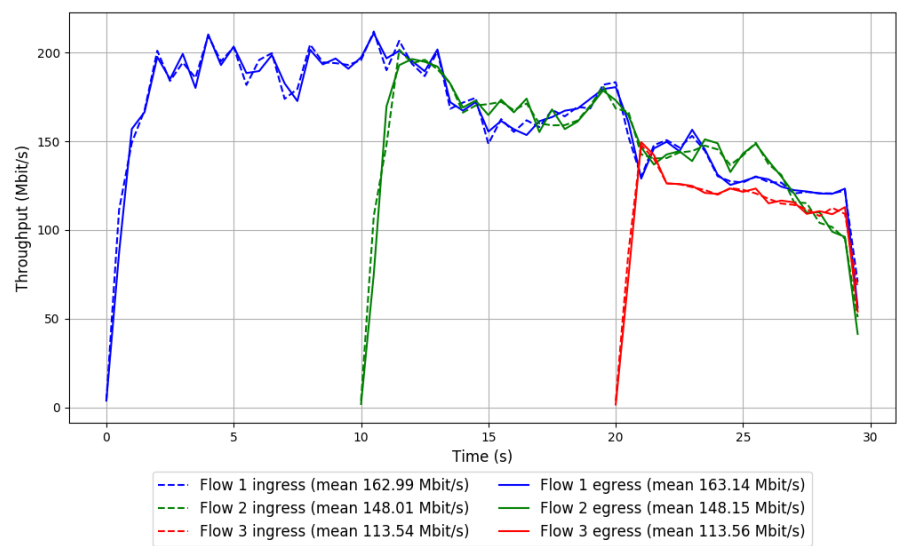
-- Flow 3:

Average throughput: 113.56 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 1.07%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 21:18:25

End at: 2017-11-21 21:18:55

Below is generated by plot.py at 2017-11-22 00:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.27 Mbit/s

95th percentile per-packet one-way delay: 53.620 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 153.26 Mbit/s

95th percentile per-packet one-way delay: 53.407 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 158.24 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.52%

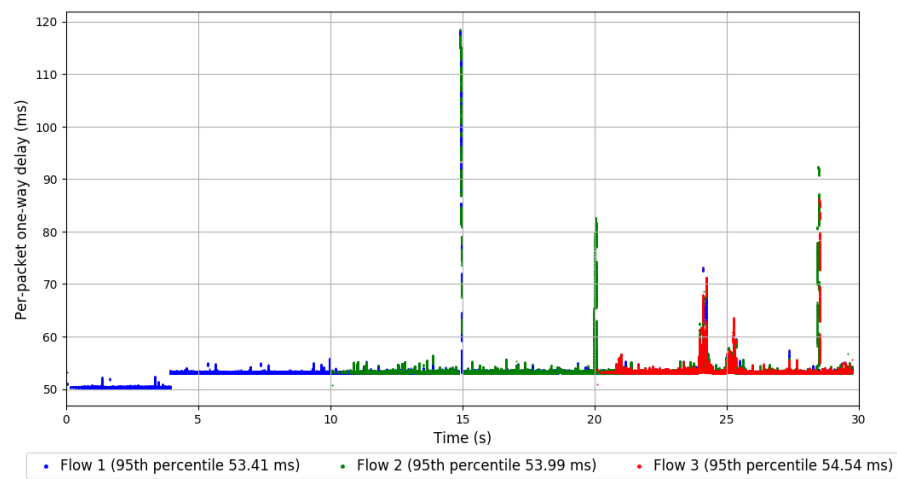
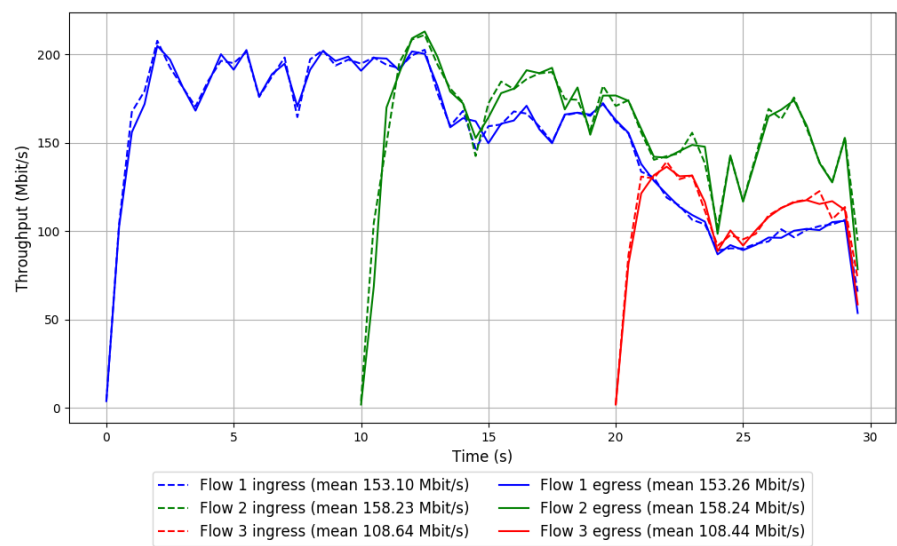
-- Flow 3:

Average throughput: 108.44 Mbit/s

95th percentile per-packet one-way delay: 54.538 ms

Loss rate: 1.22%

Run 10: Report of Indigo — Data Link

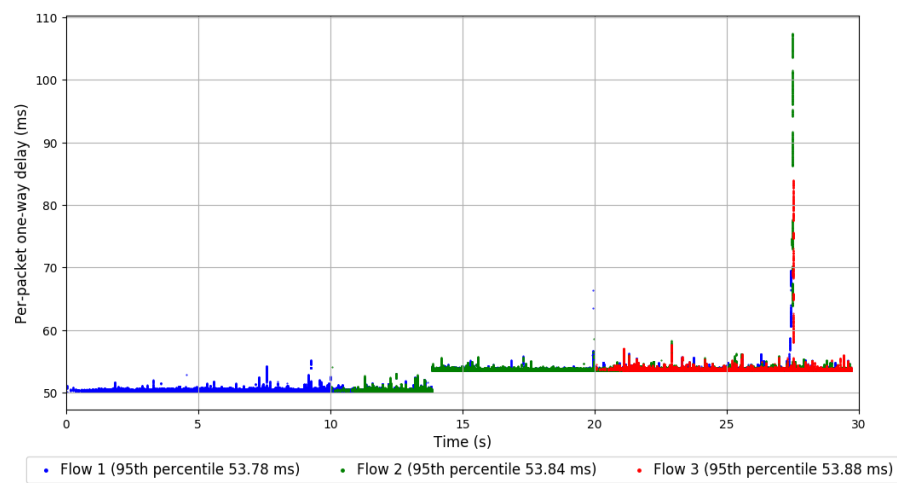
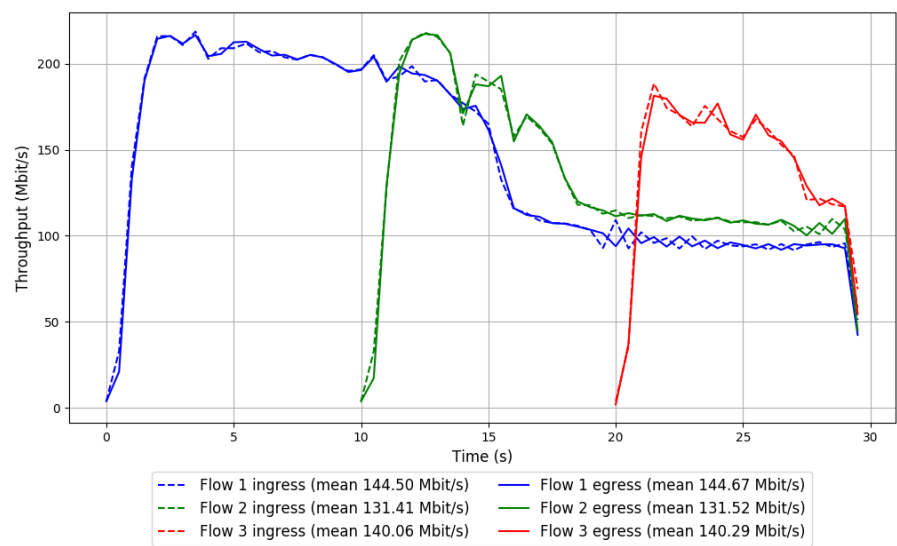


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 19:38:35
End at: 2017-11-21 19:39:05

# Below is generated by plot.py at 2017-11-22 00:28:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.34 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 144.67 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 131.52 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 140.29 Mbit/s
95th percentile per-packet one-way delay: 53.885 ms
Loss rate: 0.92%
```

Run 1: Report of Indigo-calib — Data Link

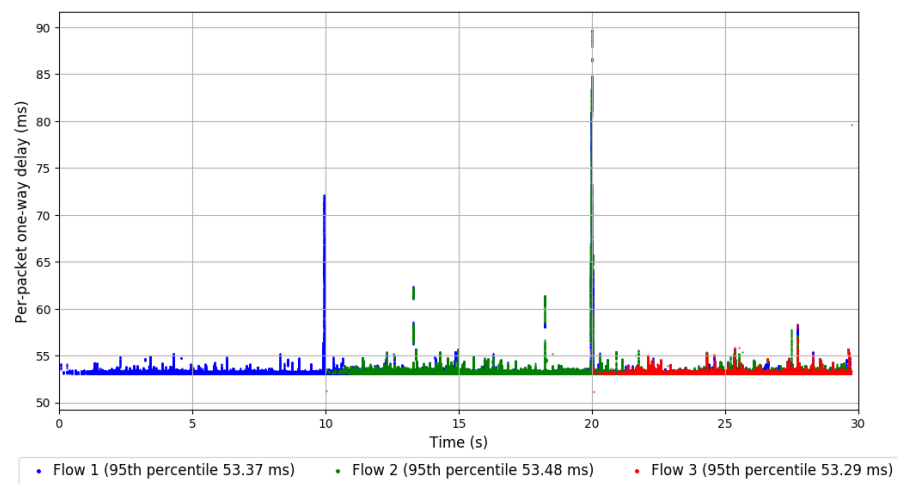
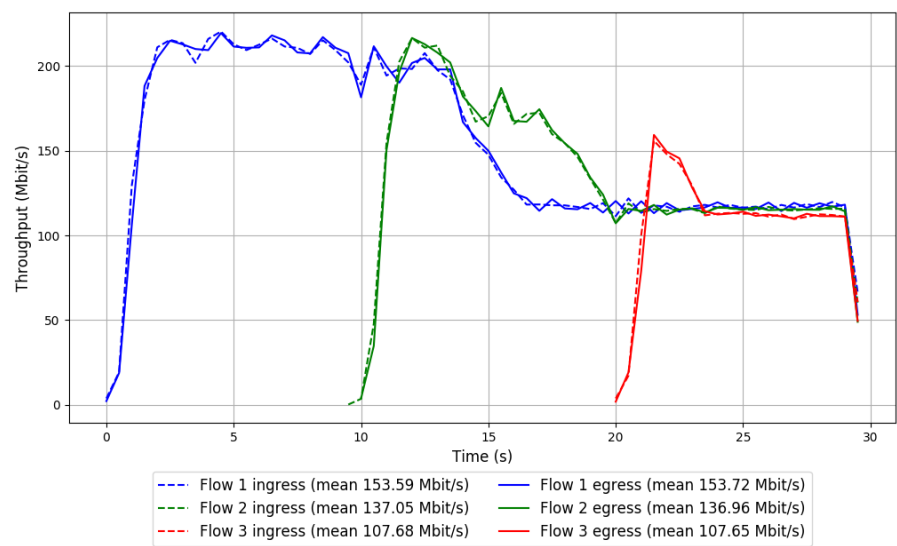


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 19:50:08
End at: 2017-11-21 19:50:38

# Below is generated by plot.py at 2017-11-22 00:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.54 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 153.72 Mbit/s
95th percentile per-packet one-way delay: 53.365 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 136.96 Mbit/s
95th percentile per-packet one-way delay: 53.479 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 107.65 Mbit/s
95th percentile per-packet one-way delay: 53.291 ms
Loss rate: 1.12%
```

Run 2: Report of Indigo-calib — Data Link

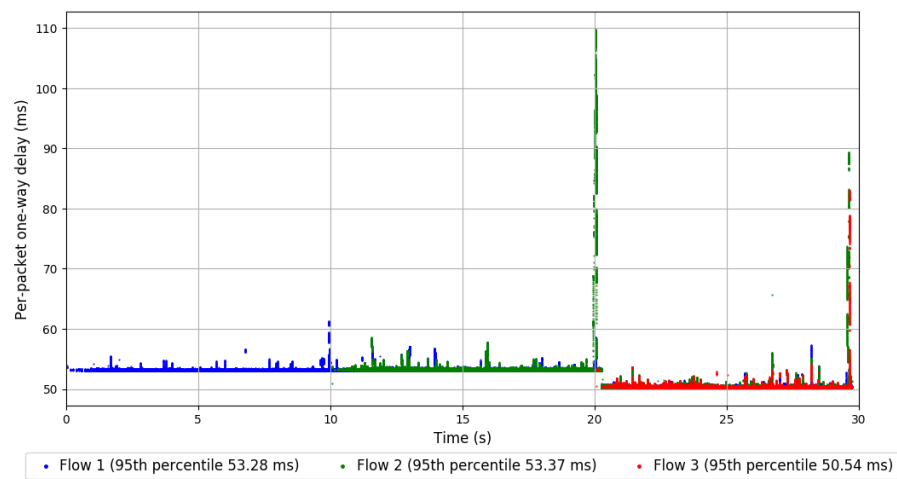
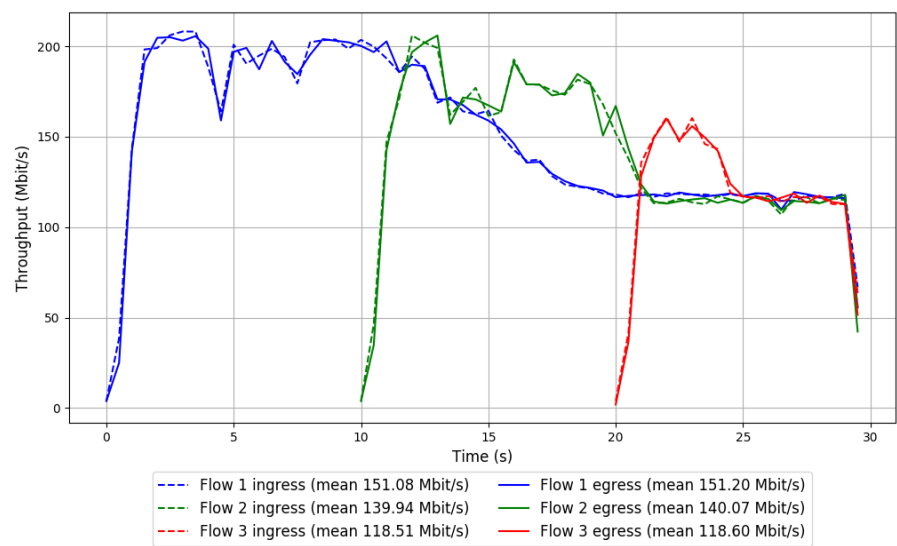


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 20:01:48
End at: 2017-11-21 20:02:18

# Below is generated by plot.py at 2017-11-22 00:29:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.58 Mbit/s
95th percentile per-packet one-way delay: 53.289 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 151.20 Mbit/s
95th percentile per-packet one-way delay: 53.283 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 140.07 Mbit/s
95th percentile per-packet one-way delay: 53.374 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 118.60 Mbit/s
95th percentile per-packet one-way delay: 50.538 ms
Loss rate: 1.01%
```


Run 3: Report of Indigo-calib — Data Link

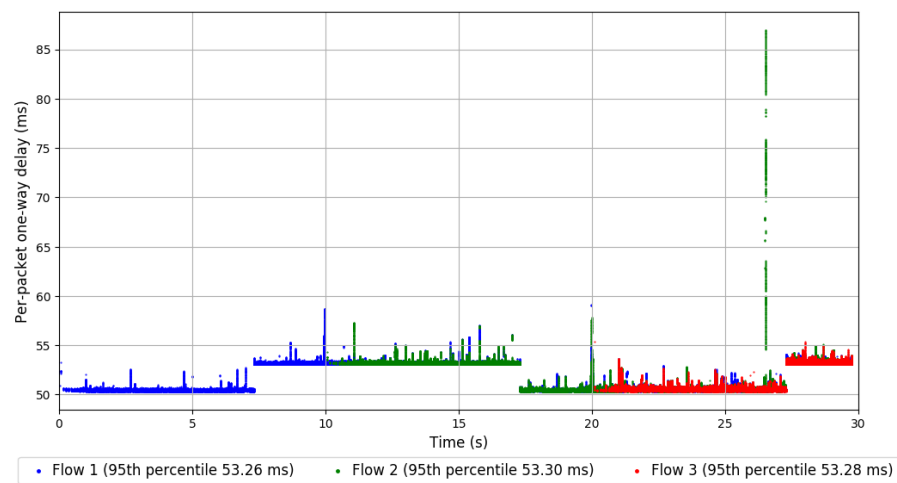
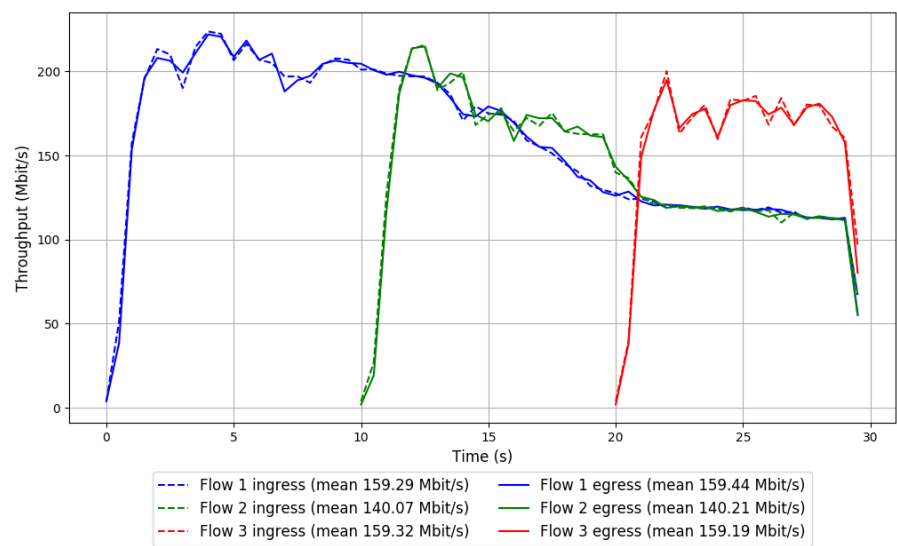


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 20:13:21
End at: 2017-11-21 20:13:51

# Below is generated by plot.py at 2017-11-22 00:29:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.09 Mbit/s
95th percentile per-packet one-way delay: 53.273 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 159.44 Mbit/s
95th percentile per-packet one-way delay: 53.259 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 140.21 Mbit/s
95th percentile per-packet one-way delay: 53.296 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 159.19 Mbit/s
95th percentile per-packet one-way delay: 53.281 ms
Loss rate: 1.13%
```

Run 4: Report of Indigo-calib — Data Link

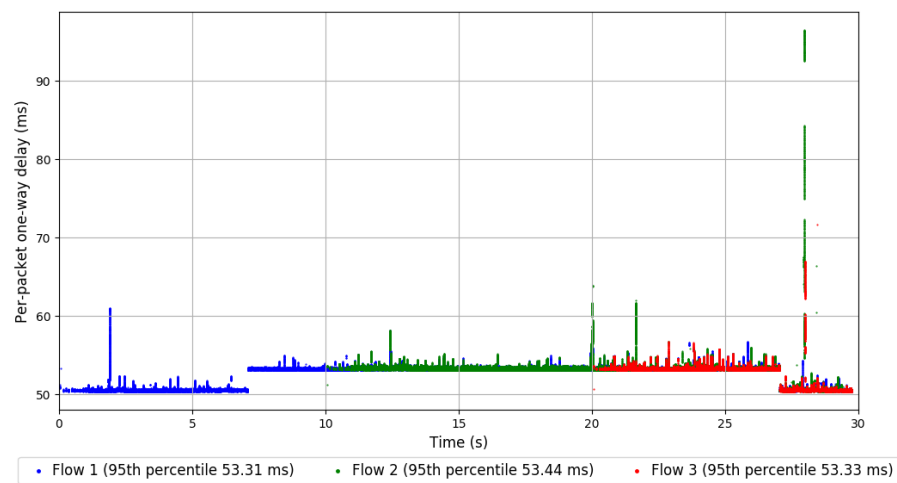
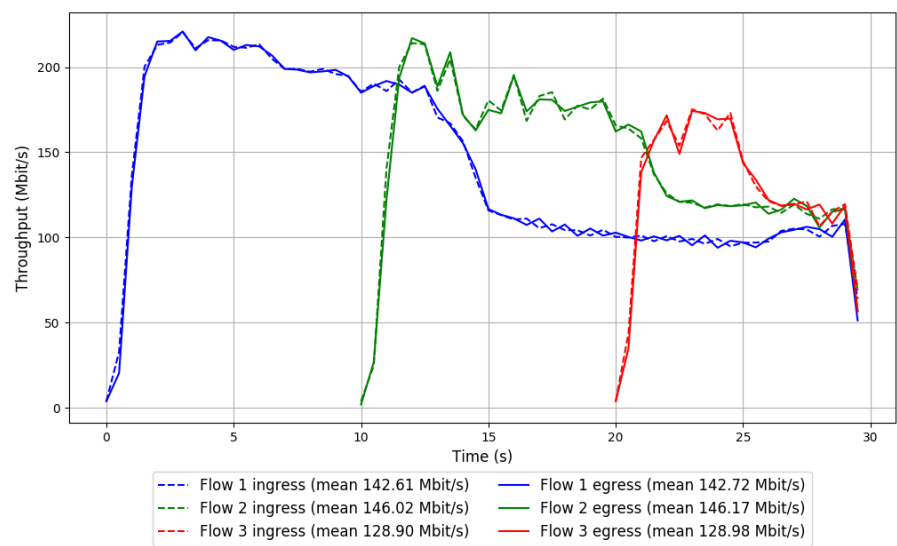


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 20:25:12
End at: 2017-11-21 20:25:42

# Below is generated by plot.py at 2017-11-22 00:29:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.65 Mbit/s
95th percentile per-packet one-way delay: 53.349 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 142.72 Mbit/s
95th percentile per-packet one-way delay: 53.309 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 146.17 Mbit/s
95th percentile per-packet one-way delay: 53.435 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 128.98 Mbit/s
95th percentile per-packet one-way delay: 53.330 ms
Loss rate: 0.97%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 20:37:32

End at: 2017-11-21 20:38:02

Below is generated by plot.py at 2017-11-22 00:30:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.86 Mbit/s

95th percentile per-packet one-way delay: 53.280 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 154.80 Mbit/s

95th percentile per-packet one-way delay: 53.256 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 120.79 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.48%

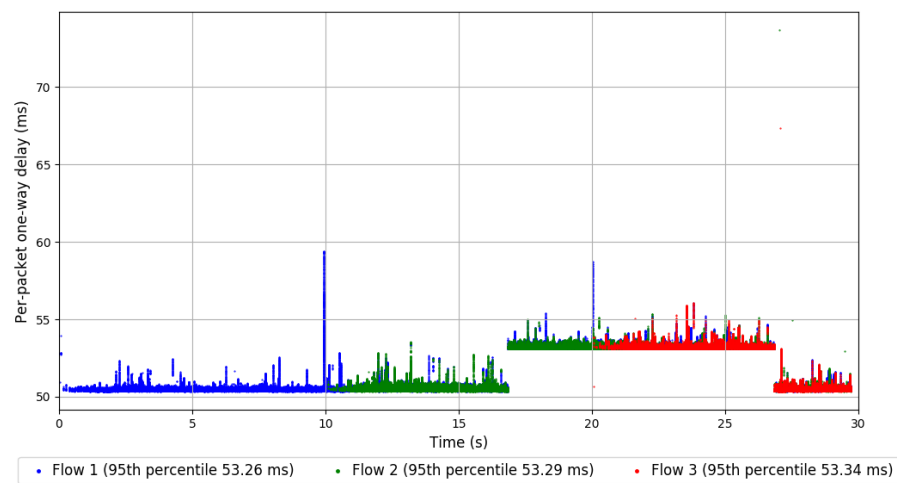
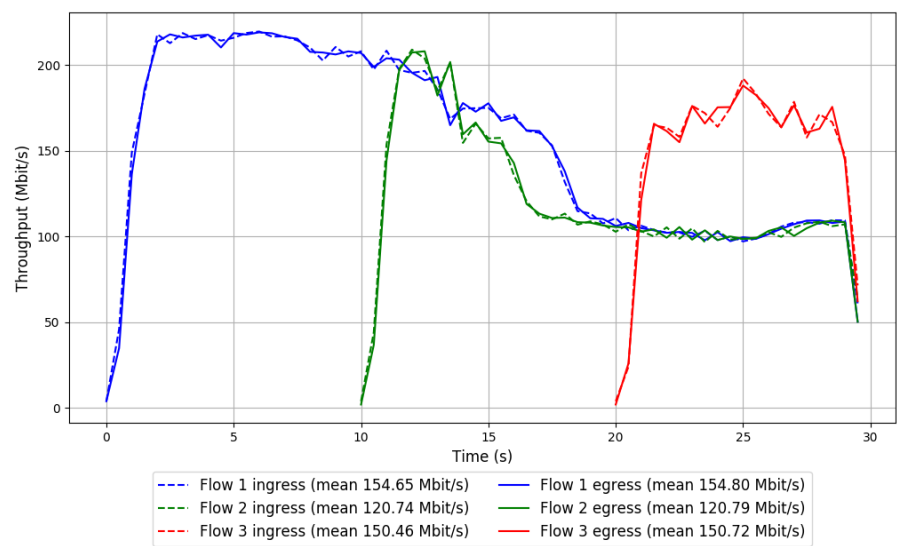
-- Flow 3:

Average throughput: 150.72 Mbit/s

95th percentile per-packet one-way delay: 53.343 ms

Loss rate: 0.89%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 20:49:56

End at: 2017-11-21 20:50:26

Below is generated by plot.py at 2017-11-22 00:30:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.82 Mbit/s

95th percentile per-packet one-way delay: 53.097 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 149.62 Mbit/s

95th percentile per-packet one-way delay: 53.170 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 140.56 Mbit/s

95th percentile per-packet one-way delay: 50.638 ms

Loss rate: 0.40%

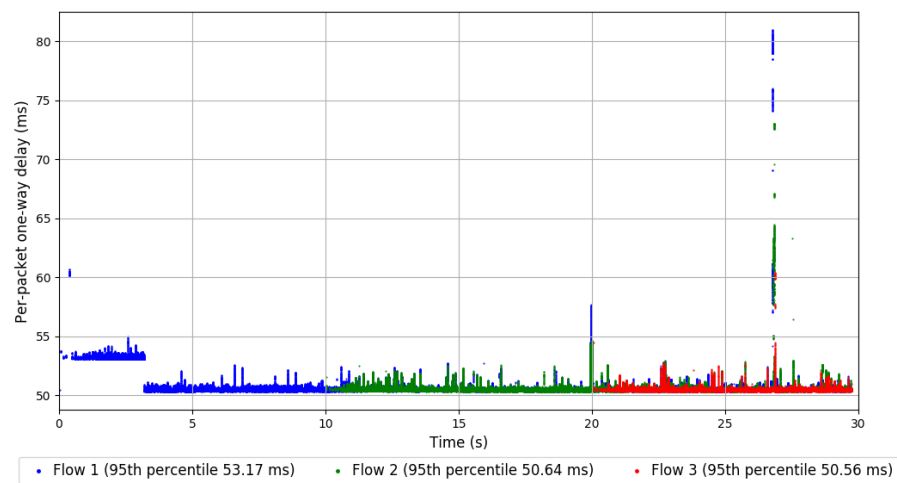
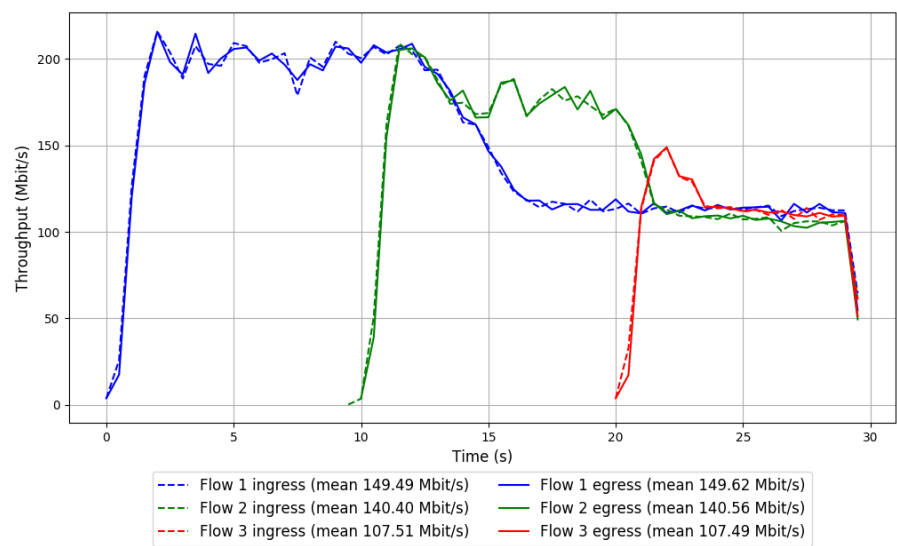
-- Flow 3:

Average throughput: 107.49 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.99%

Run 7: Report of Indigo-calib — Data Link

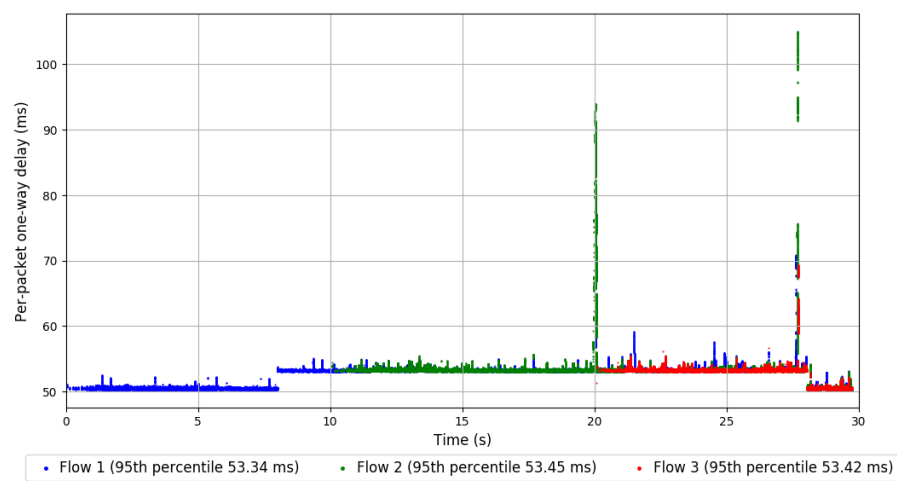
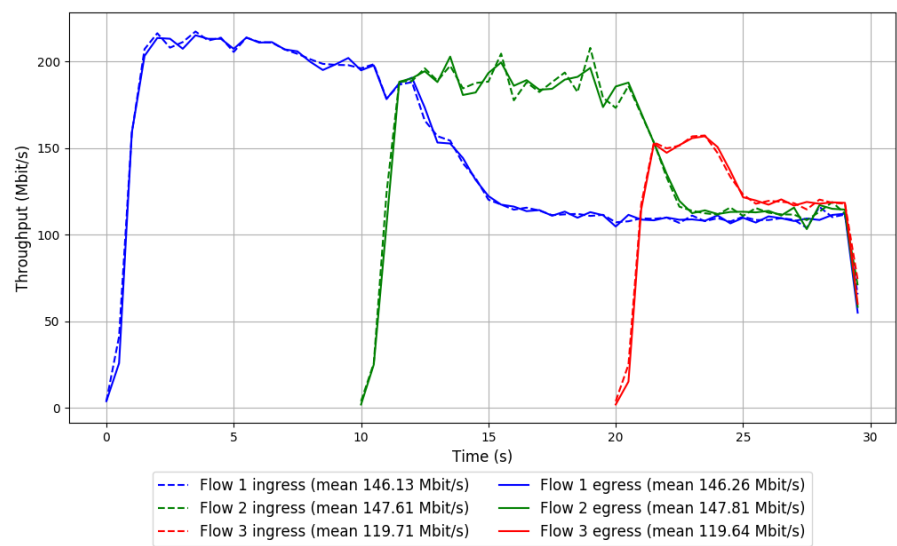


```
Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 21:01:41
End at: 2017-11-21 21:02:11

# Below is generated by plot.py at 2017-11-22 00:31:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.14 Mbit/s
95th percentile per-packet one-way delay: 53.379 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 146.26 Mbit/s
95th percentile per-packet one-way delay: 53.338 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 147.81 Mbit/s
95th percentile per-packet one-way delay: 53.452 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 119.64 Mbit/s
95th percentile per-packet one-way delay: 53.418 ms
Loss rate: 1.09%
```

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 21:13:22

End at: 2017-11-21 21:13:52

Below is generated by plot.py at 2017-11-22 00:31:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.52 Mbit/s

95th percentile per-packet one-way delay: 53.281 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 147.34 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 121.01 Mbit/s

95th percentile per-packet one-way delay: 53.311 ms

Loss rate: 0.49%

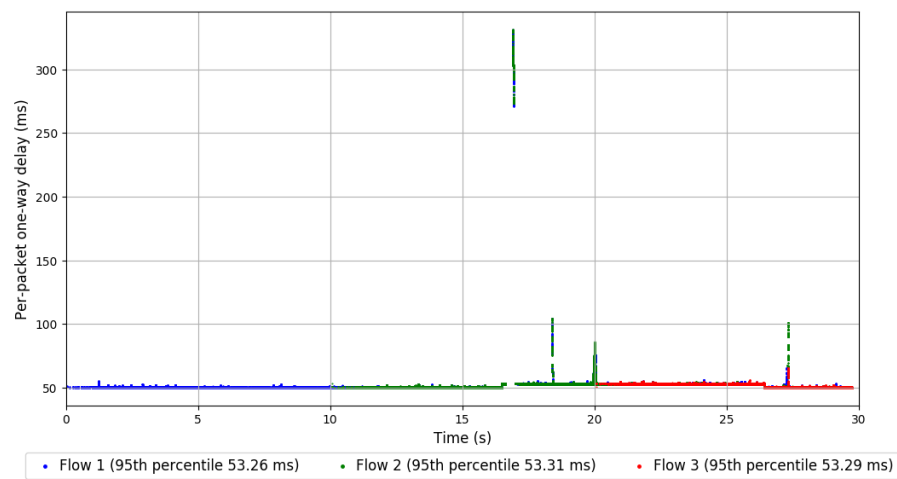
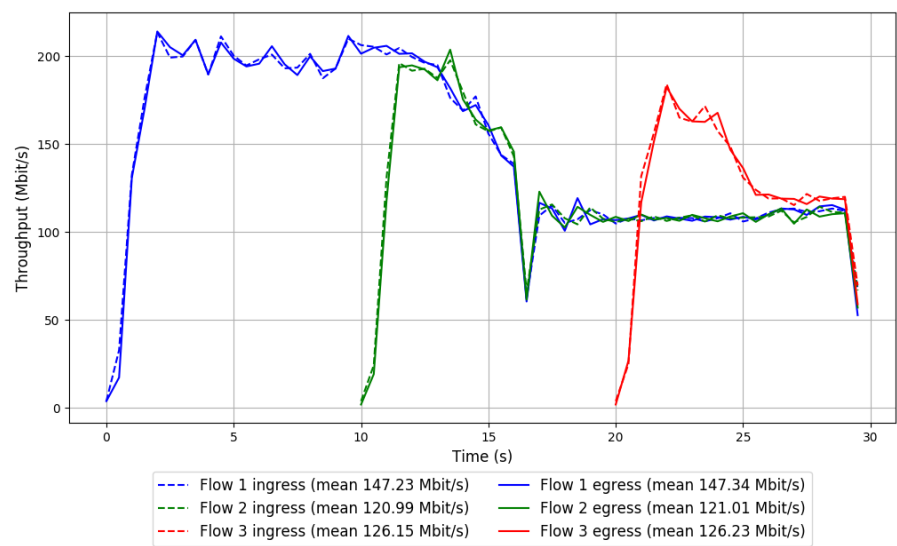
-- Flow 3:

Average throughput: 126.23 Mbit/s

95th percentile per-packet one-way delay: 53.291 ms

Loss rate: 0.97%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 21:25:08

End at: 2017-11-21 21:25:38

Below is generated by plot.py at 2017-11-22 00:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.98 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 150.74 Mbit/s

95th percentile per-packet one-way delay: 53.275 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 136.96 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.46%

-- Flow 3:

Average throughput: 152.21 Mbit/s

95th percentile per-packet one-way delay: 50.863 ms

Loss rate: 0.83%

Run 10: Report of Indigo-calib — Data Link

