

Pantheon Report

Generated at 2017-11-22 00:57:08 (UTC).

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

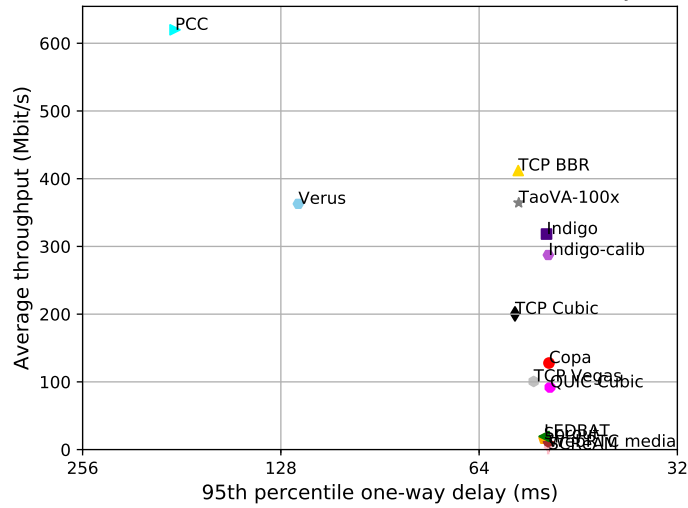
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

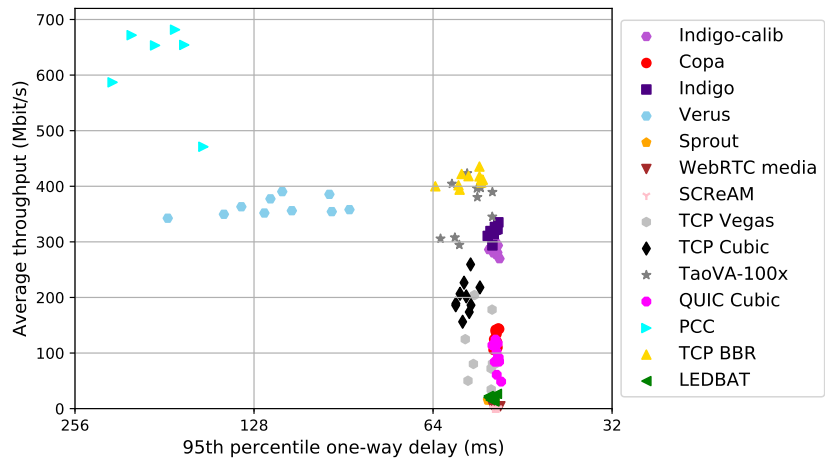
Git summary:

```
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 @ 03455460fd1a8ffbdad86fab936fdca204b80db
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
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 London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



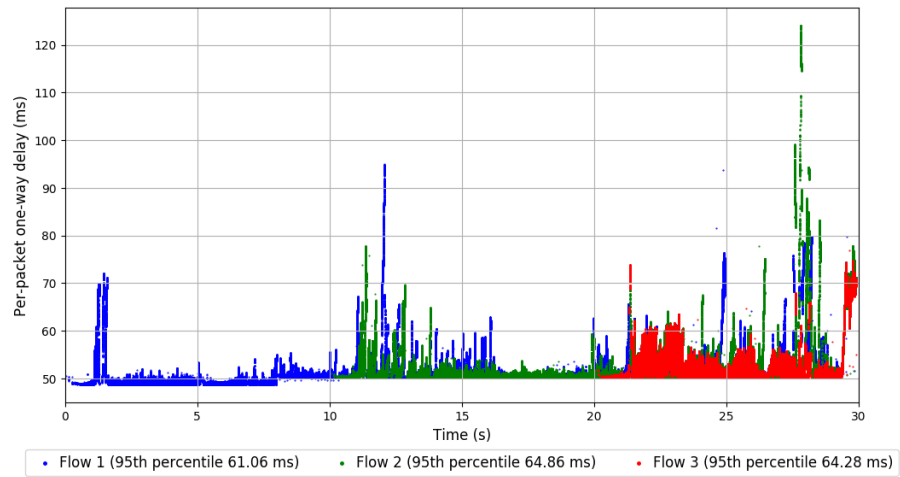
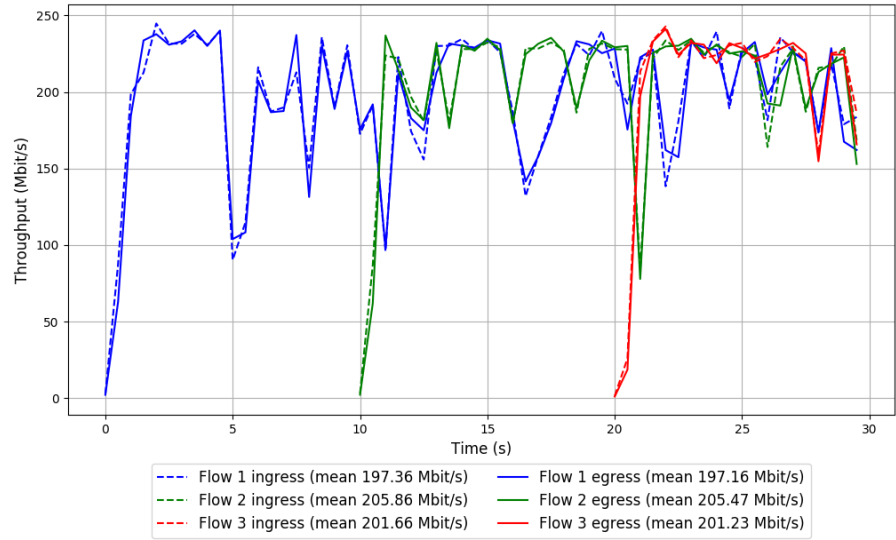
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	208.78	208.26	197.24	55.10	55.98	56.72	0.38	0.52	1.13
TCP Cubic	10	99.96	111.22	80.51	55.82	55.09	54.80	0.36	0.49	1.60
LEDBAT	10	10.59	9.98	6.88	51.02	51.00	50.73	0.70	0.94	2.43
PCC	6	413.39	267.52	86.35	654.03	164.26	149.62	3.08	3.60	4.74
QUIC Cubic	10	54.26	44.45	25.09	49.90	49.77	49.75	0.40	0.67	1.22
SCReAM	8	0.22	0.22	0.22	50.25	50.09	50.06	0.28	0.45	1.06
WebRTC media	9	2.22	1.39	0.55	50.15	50.21	50.17	0.41	0.54	1.72
Sprout	10	7.89	7.80	7.37	51.01	51.04	51.05	0.38	0.54	1.38
TaoVA-100x	10	190.38	193.61	180.60	54.64	56.86	55.25	0.25	0.56	1.08
TCP Vegas	9	35.15	59.86	67.91	551.97	52.24	53.47	0.21	0.51	0.95
Verus	10	217.17	164.98	110.89	121.99	119.31	102.11	1.42	0.91	2.25
Copa	10	69.10	67.19	55.98	50.12	50.11	50.13	0.28	0.45	1.53
Indigo	10	171.61	160.38	125.67	50.52	50.90	50.00	0.32	0.41	1.04
Indigo-calib	10	154.47	140.40	123.04	50.18	50.46	50.12	0.25	0.43	0.99

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-21 19:31:00
End at: 2017-11-21 19:31:30

# Below is generated by plot.py at 2017-11-21 23:48:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.00 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 197.16 Mbit/s
95th percentile per-packet one-way delay: 61.060 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 205.47 Mbit/s
95th percentile per-packet one-way delay: 64.862 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 201.23 Mbit/s
95th percentile per-packet one-way delay: 64.275 ms
Loss rate: 1.20%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 19:43:44

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

Below is generated by plot.py at 2017-11-21 23:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.13 Mbit/s

95th percentile per-packet one-way delay: 57.303 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 216.27 Mbit/s

95th percentile per-packet one-way delay: 55.954 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 213.31 Mbit/s

95th percentile per-packet one-way delay: 57.382 ms

Loss rate: 0.57%

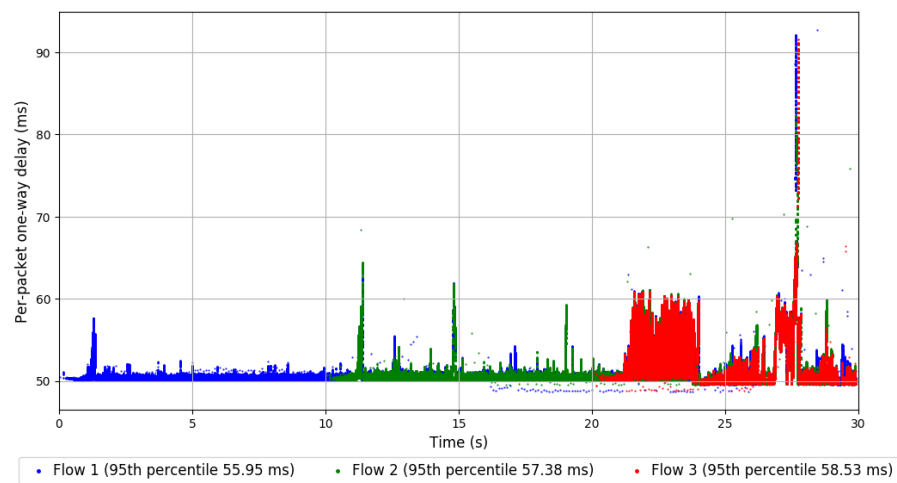
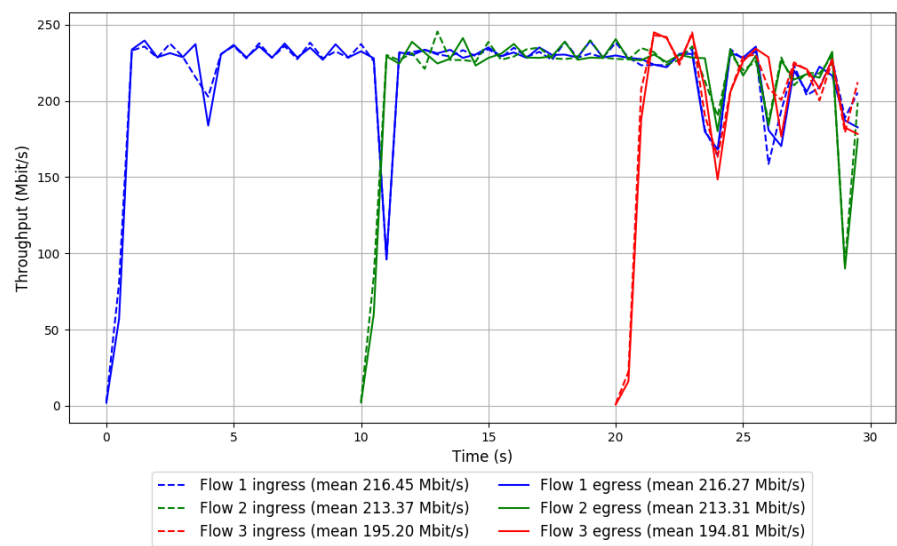
-- Flow 3:

Average throughput: 194.81 Mbit/s

95th percentile per-packet one-way delay: 58.534 ms

Loss rate: 1.23%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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 23:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.82 Mbit/s

95th percentile per-packet one-way delay: 53.471 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 209.89 Mbit/s

95th percentile per-packet one-way delay: 53.999 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 212.24 Mbit/s

95th percentile per-packet one-way delay: 52.528 ms

Loss rate: 0.57%

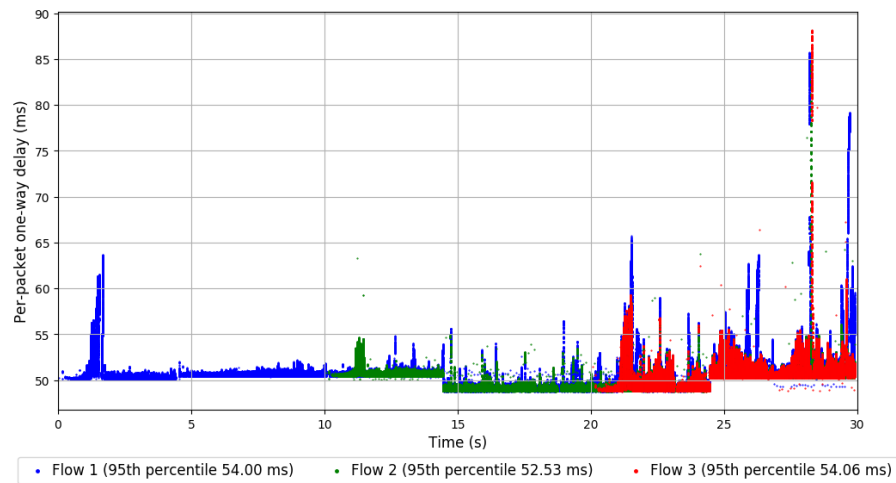
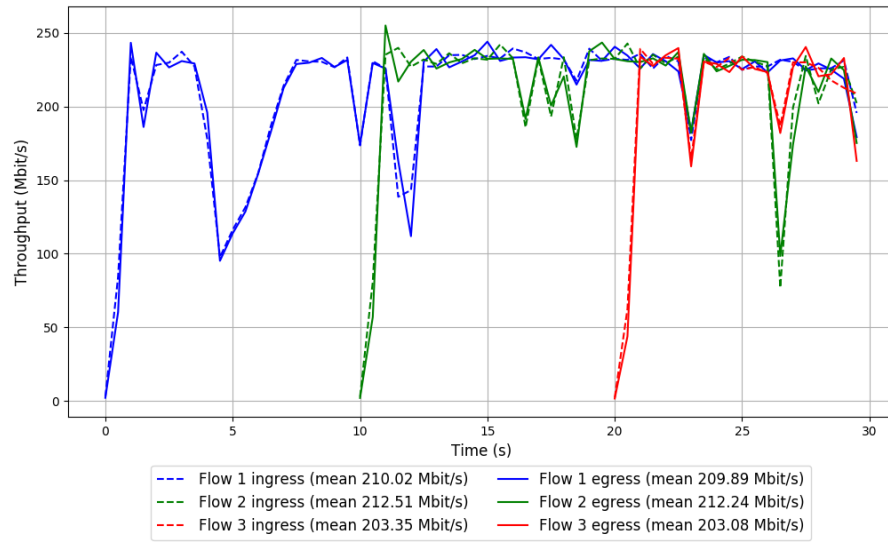
-- Flow 3:

Average throughput: 203.08 Mbit/s

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

Loss rate: 1.14%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 20:08:52

End at: 2017-11-21 20:09:22

Below is generated by plot.py at 2017-11-21 23:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.93 Mbit/s

95th percentile per-packet one-way delay: 53.080 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 210.28 Mbit/s

95th percentile per-packet one-way delay: 53.059 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 212.59 Mbit/s

95th percentile per-packet one-way delay: 52.654 ms

Loss rate: 0.58%

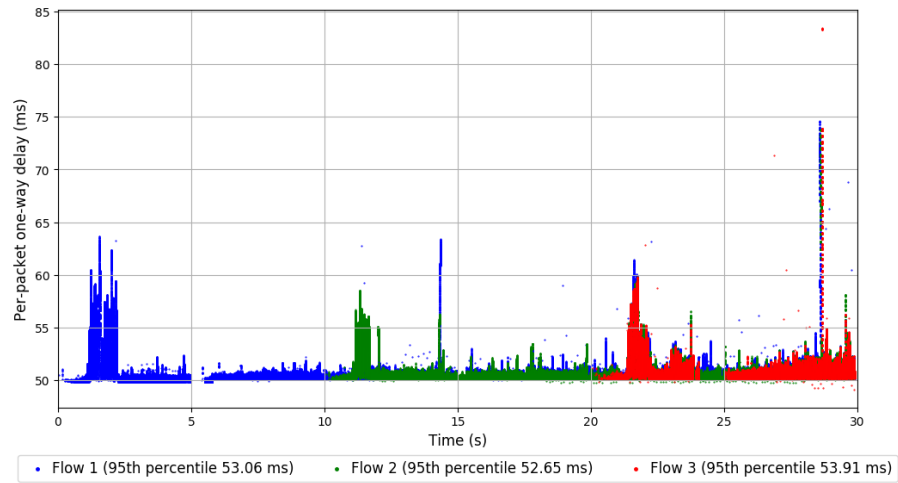
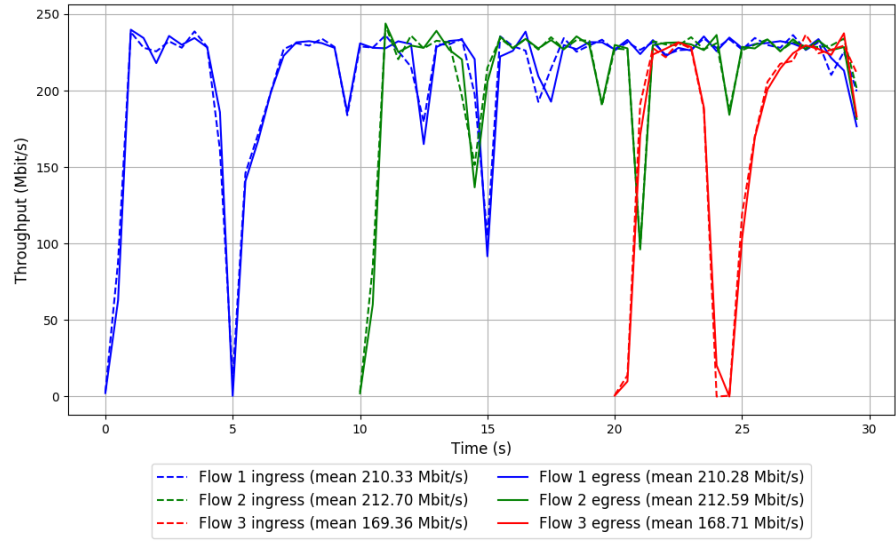
-- Flow 3:

Average throughput: 168.71 Mbit/s

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

Loss rate: 1.44%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-11-21 23:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.01 Mbit/s

95th percentile per-packet one-way delay: 52.794 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 212.05 Mbit/s

95th percentile per-packet one-way delay: 52.196 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 205.50 Mbit/s

95th percentile per-packet one-way delay: 53.237 ms

Loss rate: 0.57%

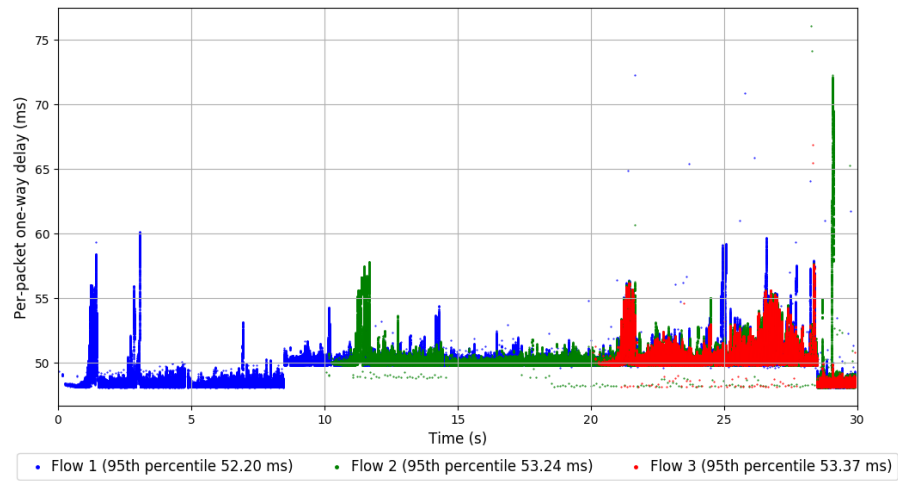
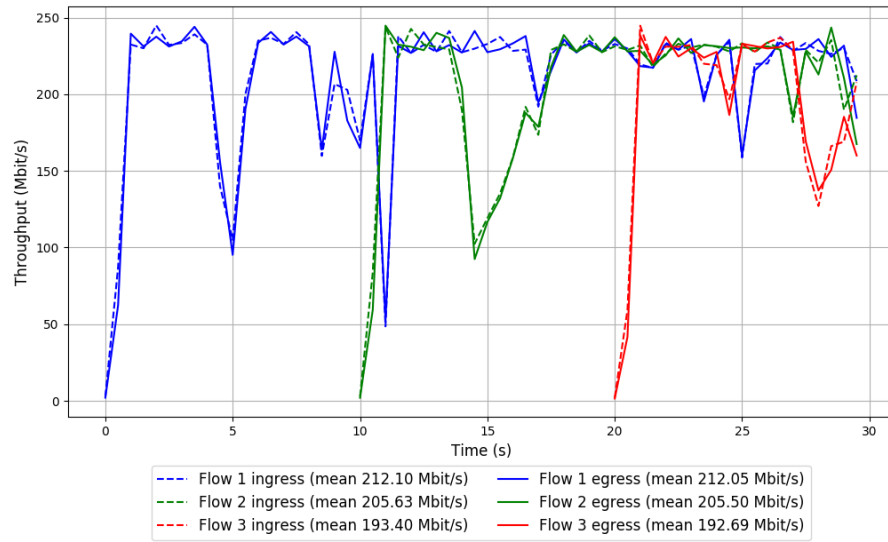
-- Flow 3:

Average throughput: 192.69 Mbit/s

95th percentile per-packet one-way delay: 53.367 ms

Loss rate: 1.26%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 20:33:48

End at: 2017-11-21 20:34:18

Below is generated by plot.py at 2017-11-21 23:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.97 Mbit/s

95th percentile per-packet one-way delay: 57.743 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 197.03 Mbit/s

95th percentile per-packet one-way delay: 56.591 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 196.71 Mbit/s

95th percentile per-packet one-way delay: 58.015 ms

Loss rate: 0.63%

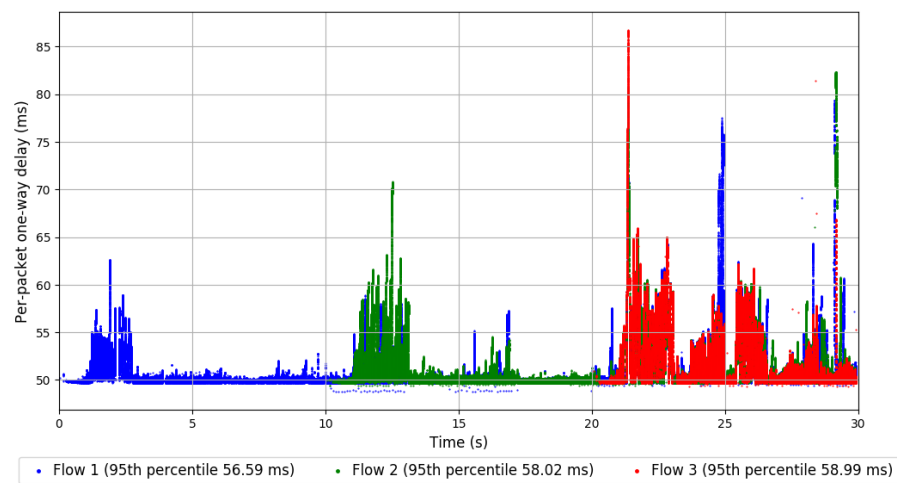
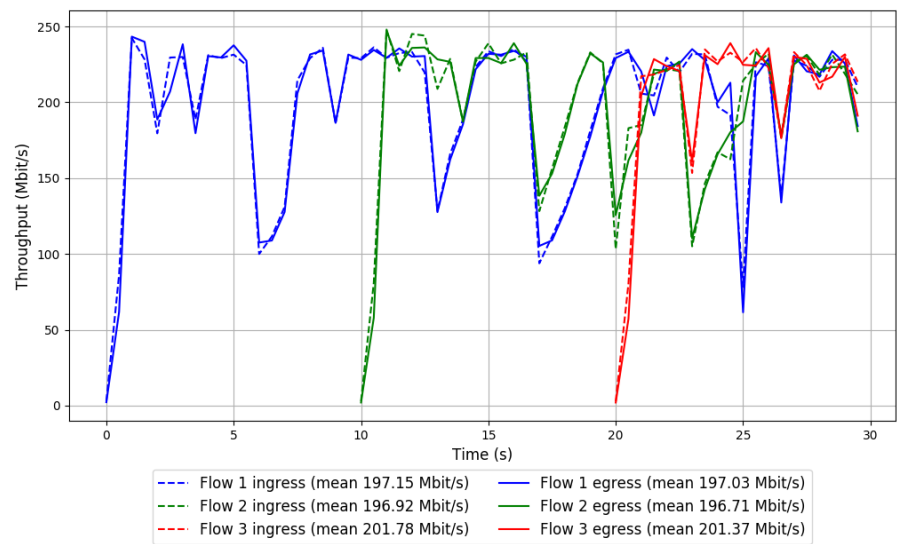
-- Flow 3:

Average throughput: 201.37 Mbit/s

95th percentile per-packet one-way delay: 58.992 ms

Loss rate: 1.18%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-11-21 23:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.90 Mbit/s

95th percentile per-packet one-way delay: 57.998 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 202.06 Mbit/s

95th percentile per-packet one-way delay: 56.694 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 202.78 Mbit/s

95th percentile per-packet one-way delay: 58.269 ms

Loss rate: 0.59%

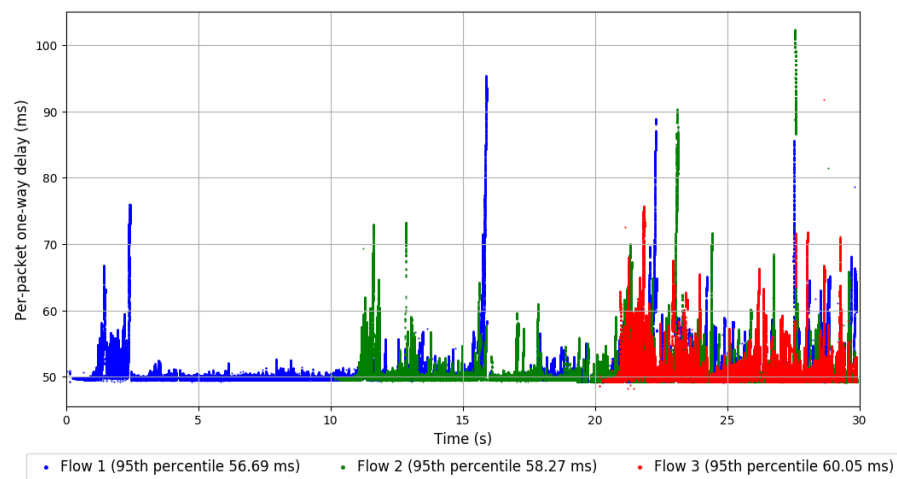
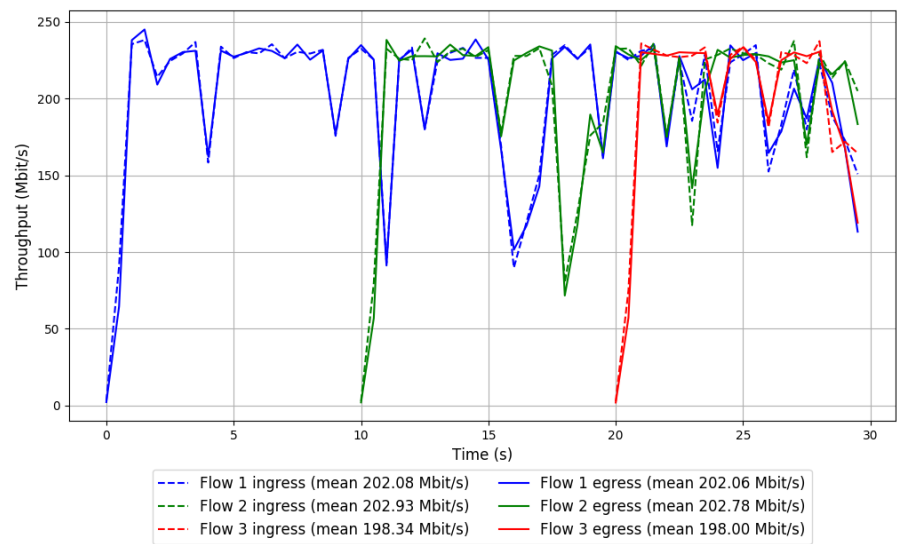
-- Flow 3:

Average throughput: 198.00 Mbit/s

95th percentile per-packet one-way delay: 60.046 ms

Loss rate: 1.27%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 20:58:39

End at: 2017-11-21 20:59:09

Below is generated by plot.py at 2017-11-21 23:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.15 Mbit/s

95th percentile per-packet one-way delay: 53.120 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 214.84 Mbit/s

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

Loss rate: 0.38%

-- Flow 2:

Average throughput: 197.48 Mbit/s

95th percentile per-packet one-way delay: 52.834 ms

Loss rate: 0.03%

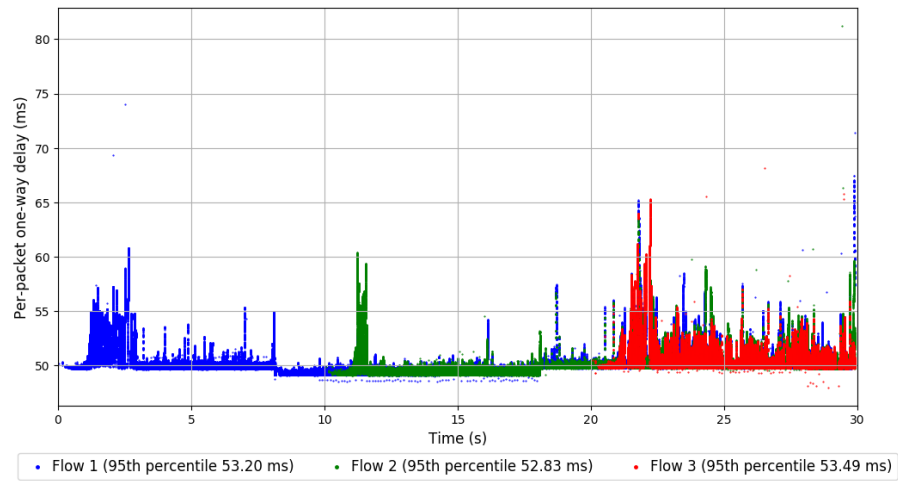
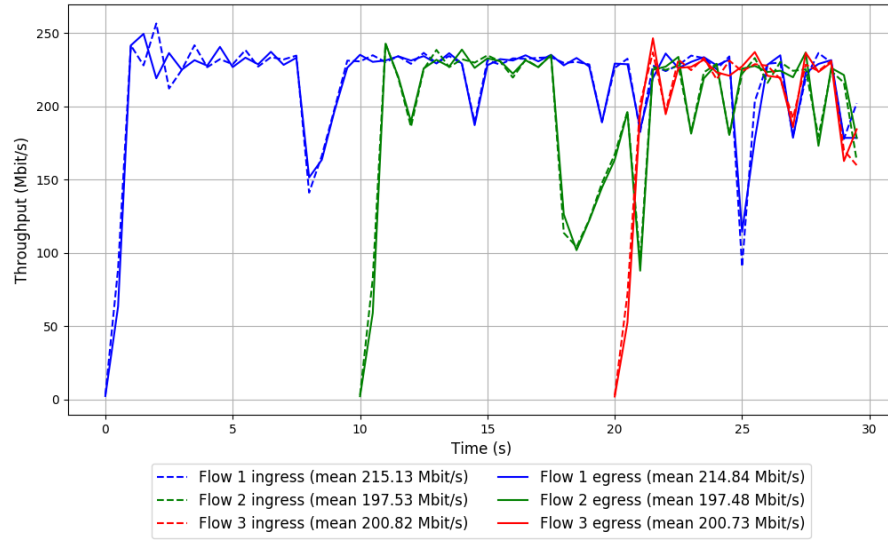
-- Flow 3:

Average throughput: 200.73 Mbit/s

95th percentile per-packet one-way delay: 53.492 ms

Loss rate: 0.16%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 435.52 Mbit/s

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

Loss rate: 0.55%

-- Flow 1:

Average throughput: 221.49 Mbit/s

95th percentile per-packet one-way delay: 52.689 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 219.78 Mbit/s

95th percentile per-packet one-way delay: 54.593 ms

Loss rate: 0.53%

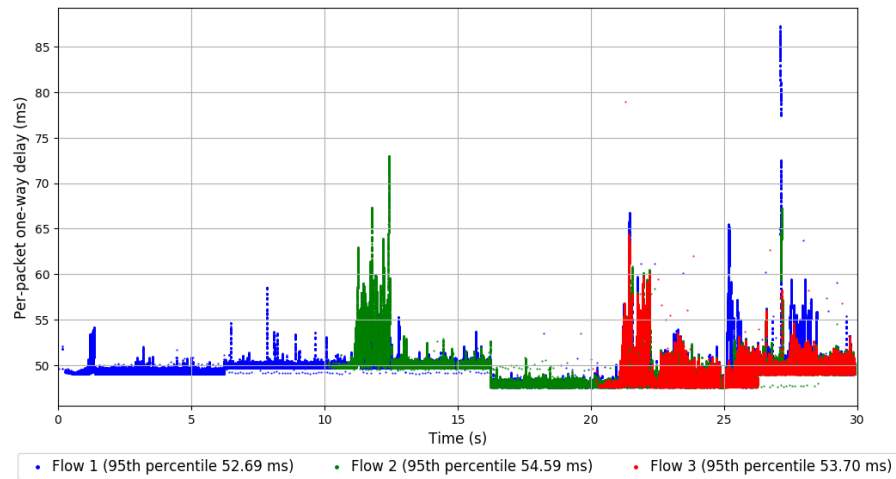
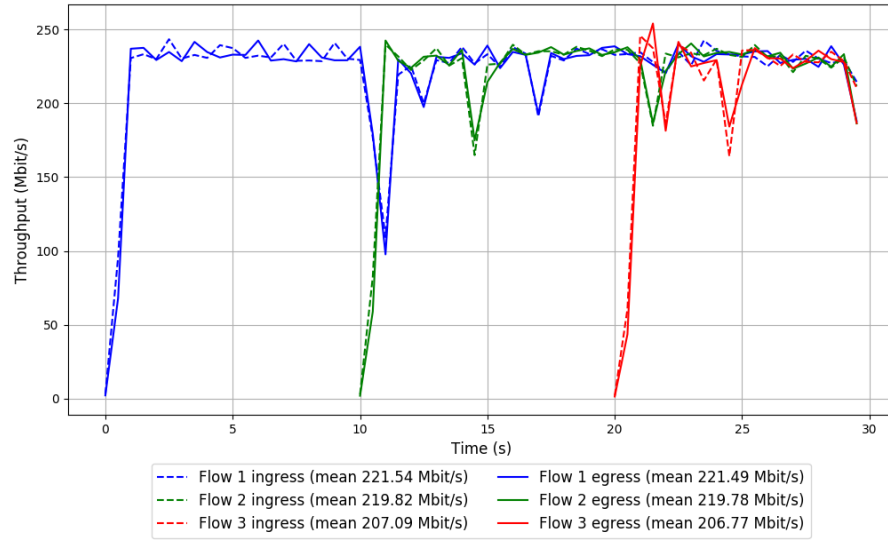
-- Flow 3:

Average throughput: 206.77 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 1.21%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 21:23:39

End at: 2017-11-21 21:24:09

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 418.27 Mbit/s

95th percentile per-packet one-way delay: 55.787 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 206.69 Mbit/s

95th percentile per-packet one-way delay: 55.591 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 216.72 Mbit/s

95th percentile per-packet one-way delay: 55.397 ms

Loss rate: 0.58%

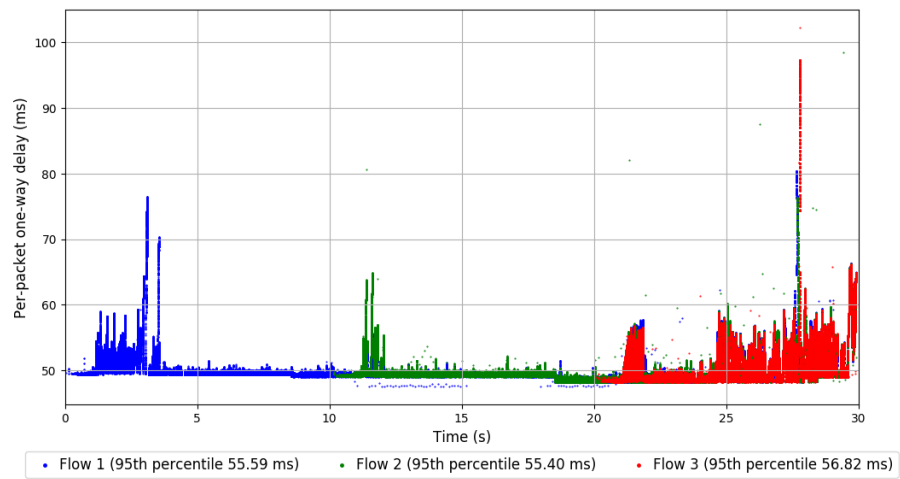
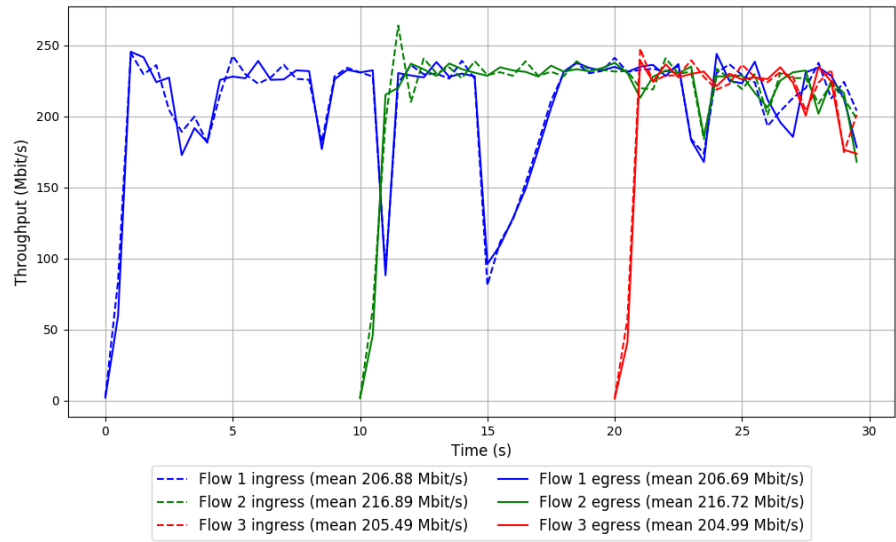
-- Flow 3:

Average throughput: 204.99 Mbit/s

95th percentile per-packet one-way delay: 56.816 ms

Loss rate: 1.23%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 19:39:00

End at: 2017-11-21 19:39:30

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.59 Mbit/s

95th percentile per-packet one-way delay: 56.762 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 146.04 Mbit/s

95th percentile per-packet one-way delay: 57.559 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 118.57 Mbit/s

95th percentile per-packet one-way delay: 51.784 ms

Loss rate: 0.65%

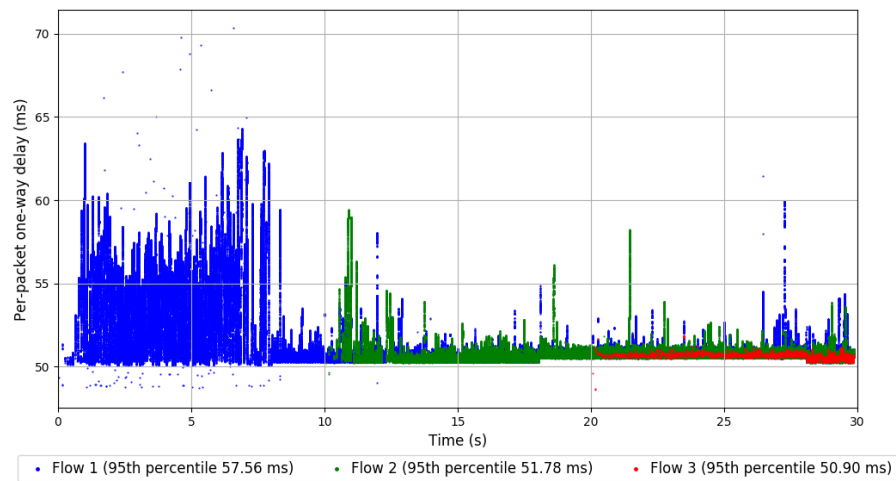
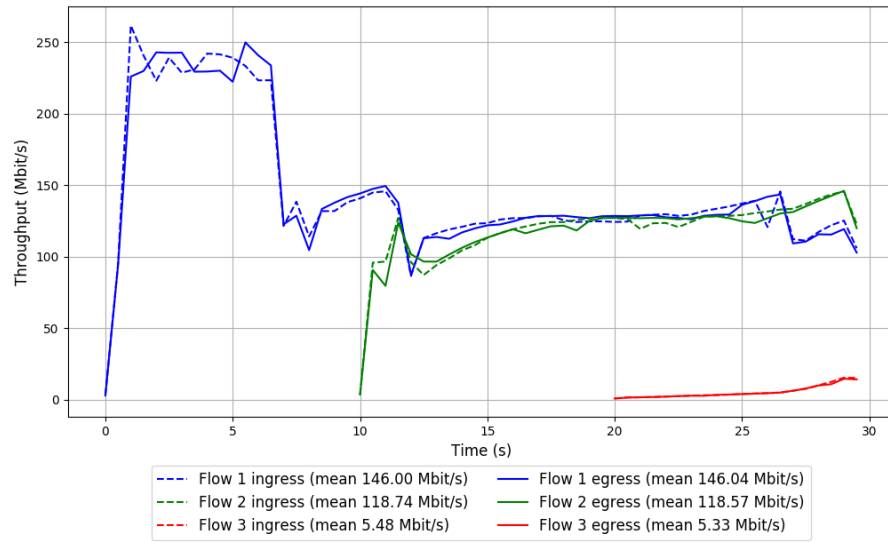
-- Flow 3:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 50.900 ms

Loss rate: 3.71%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 19:51:45

End at: 2017-11-21 19:52:15

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.41 Mbit/s

95th percentile per-packet one-way delay: 55.339 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 143.05 Mbit/s

95th percentile per-packet one-way delay: 55.821 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 117.79 Mbit/s

95th percentile per-packet one-way delay: 54.610 ms

Loss rate: 0.34%

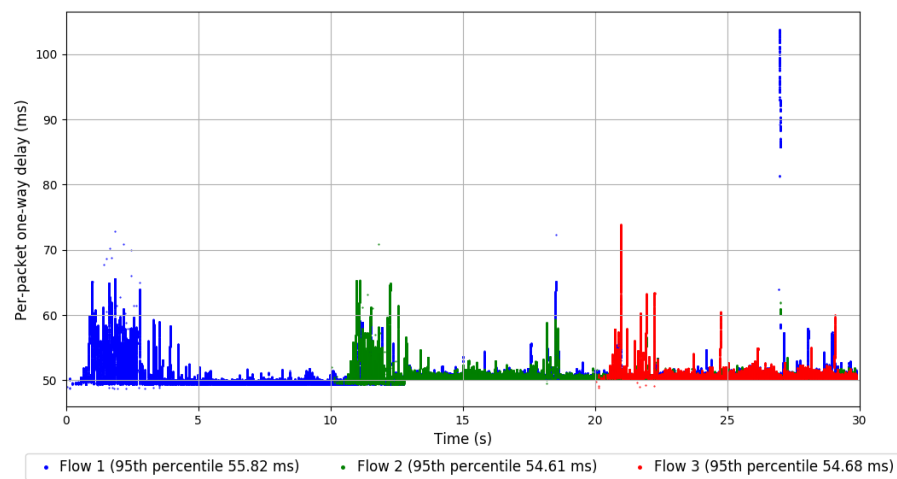
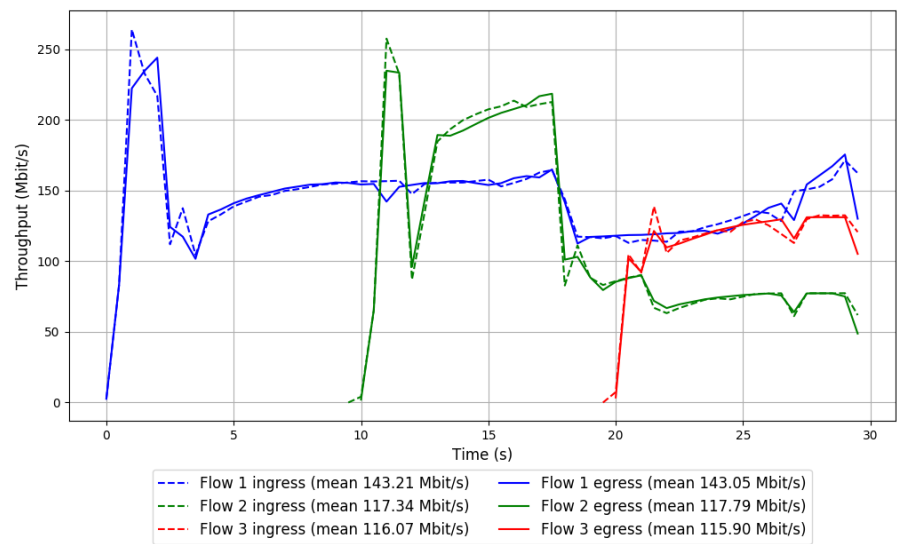
-- Flow 3:

Average throughput: 115.90 Mbit/s

95th percentile per-packet one-way delay: 54.683 ms

Loss rate: 1.14%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 20:04:23

End at: 2017-11-21 20:04:53

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.07 Mbit/s

95th percentile per-packet one-way delay: 55.256 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 112.08 Mbit/s

95th percentile per-packet one-way delay: 56.377 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 108.72 Mbit/s

95th percentile per-packet one-way delay: 52.206 ms

Loss rate: 0.34%

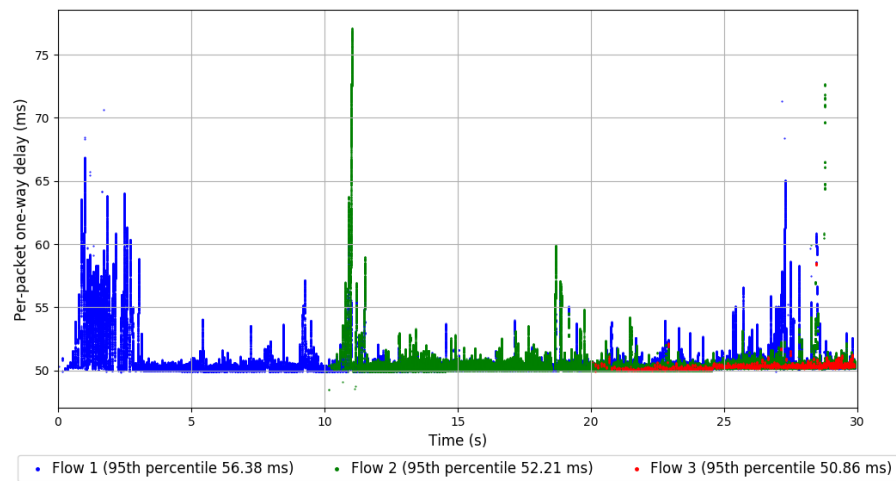
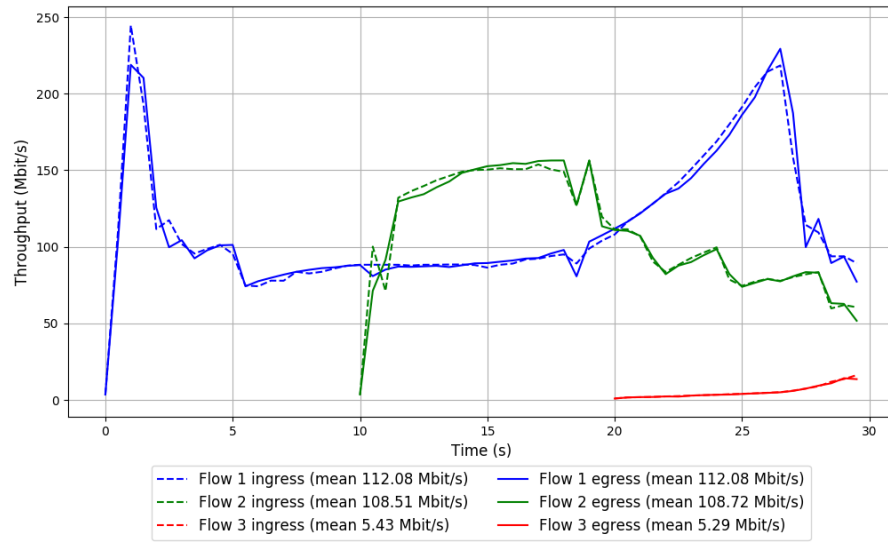
-- Flow 3:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 3.59%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 20:16:54

End at: 2017-11-21 20:17:24

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 156.26 Mbit/s

95th percentile per-packet one-way delay: 57.074 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 59.212 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 54.772 ms

Loss rate: 0.57%

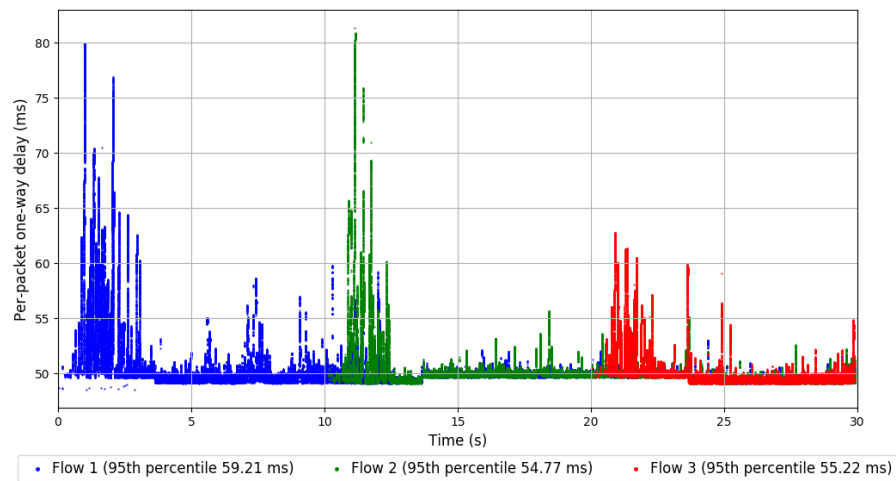
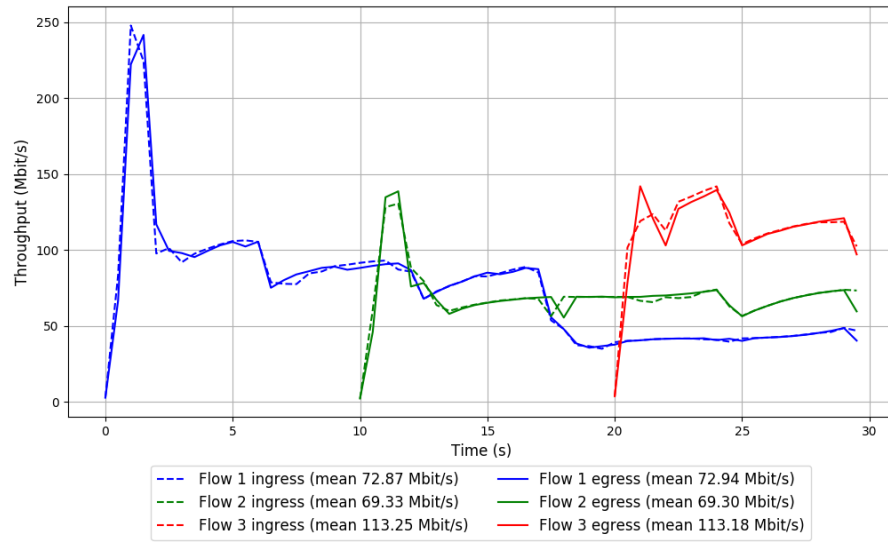
-- Flow 3:

Average throughput: 113.18 Mbit/s

95th percentile per-packet one-way delay: 55.223 ms

Loss rate: 1.09%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 20:29:13

End at: 2017-11-21 20:29:43

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 117.58 Mbit/s

95th percentile per-packet one-way delay: 51.973 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 54.955 ms

Loss rate: 0.56%

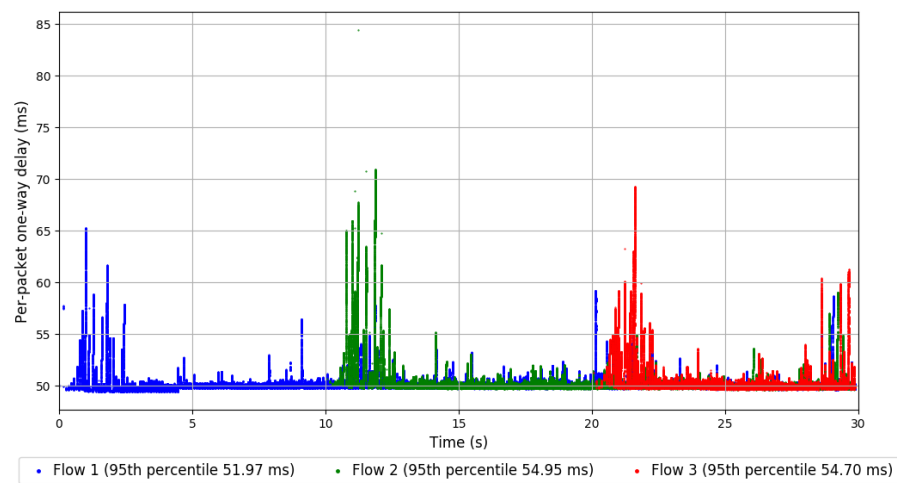
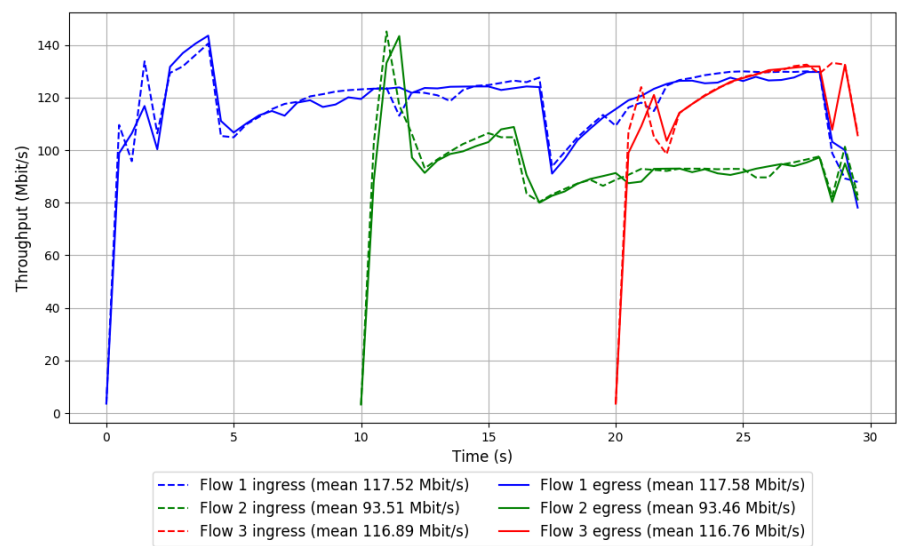
-- Flow 3:

Average throughput: 116.76 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 1.14%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 20:41:43

End at: 2017-11-21 20:42:13

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.93 Mbit/s

95th percentile per-packet one-way delay: 58.584 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 57.832 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 131.61 Mbit/s

95th percentile per-packet one-way delay: 59.815 ms

Loss rate: 0.45%

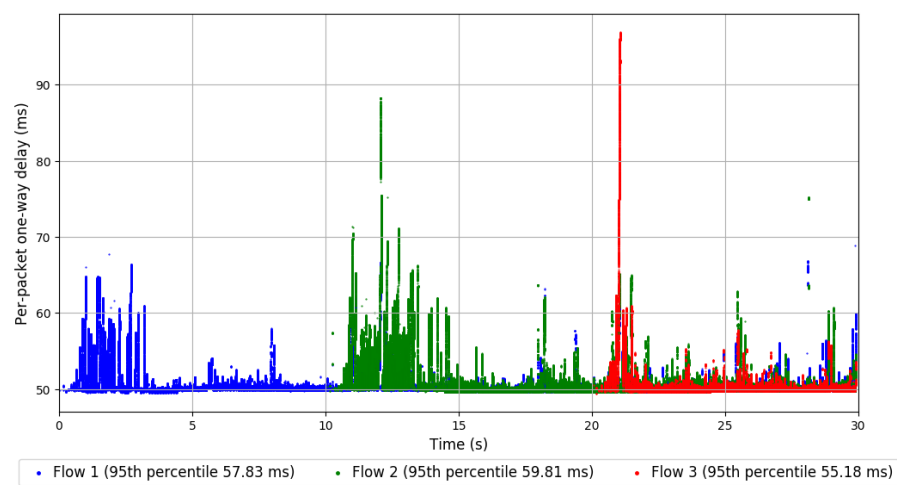
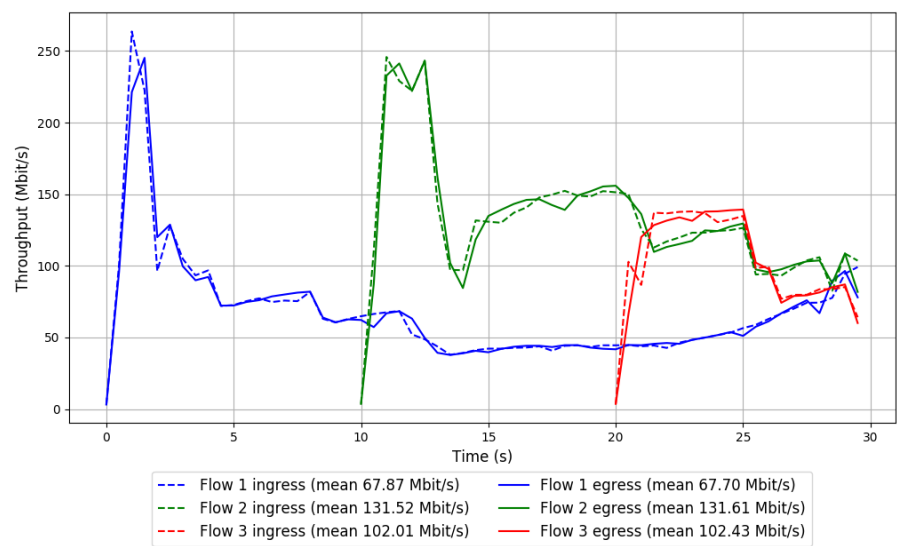
-- Flow 3:

Average throughput: 102.43 Mbit/s

95th percentile per-packet one-way delay: 55.178 ms

Loss rate: 0.62%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 20:54:05

End at: 2017-11-21 20:54:35

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.58 Mbit/s

95th percentile per-packet one-way delay: 57.654 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 56.528 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 111.52 Mbit/s

95th percentile per-packet one-way delay: 54.762 ms

Loss rate: 0.69%

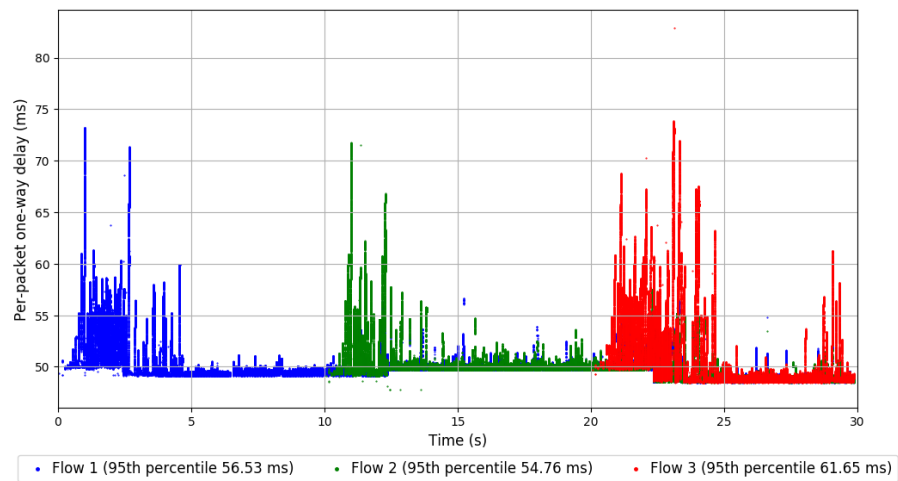
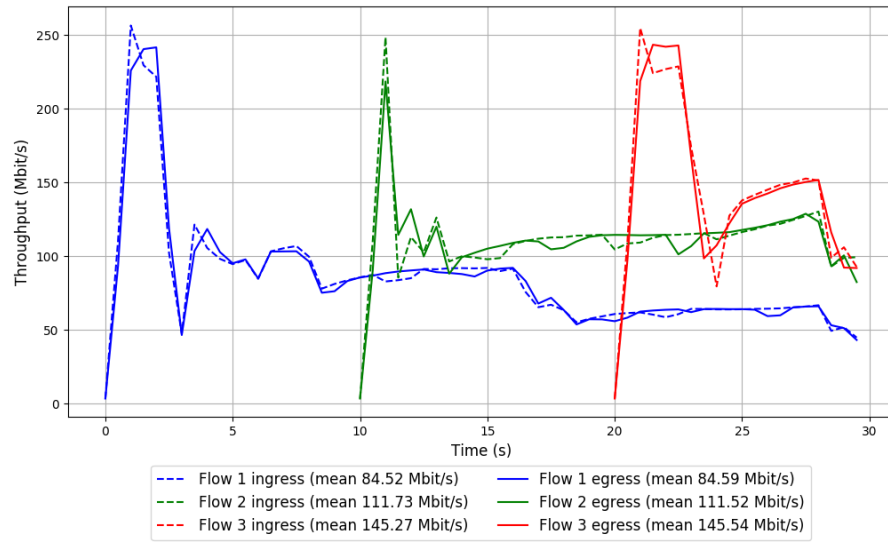
-- Flow 3:

Average throughput: 145.54 Mbit/s

95th percentile per-packet one-way delay: 61.651 ms

Loss rate: 0.83%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 21:06:37

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

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.97 Mbit/s

95th percentile per-packet one-way delay: 56.277 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 81.12 Mbit/s

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

Loss rate: 0.39%

-- Flow 2:

Average throughput: 141.97 Mbit/s

95th percentile per-packet one-way delay: 57.703 ms

Loss rate: 0.39%

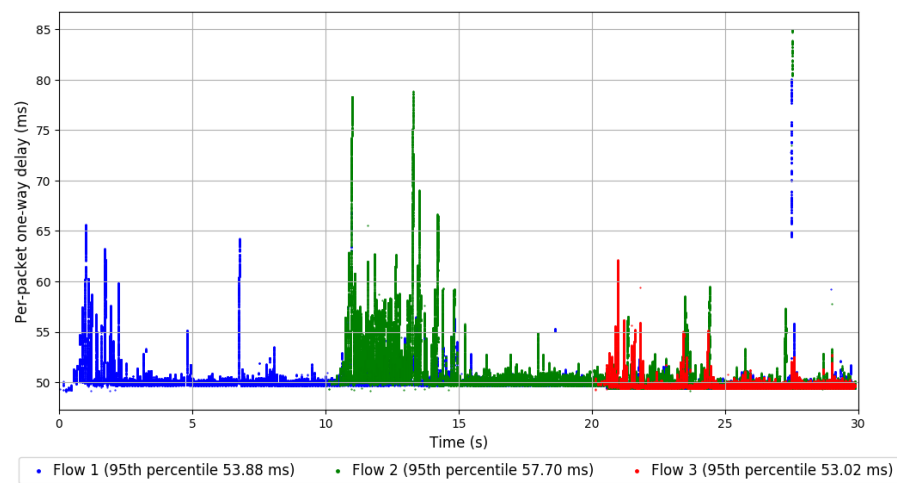
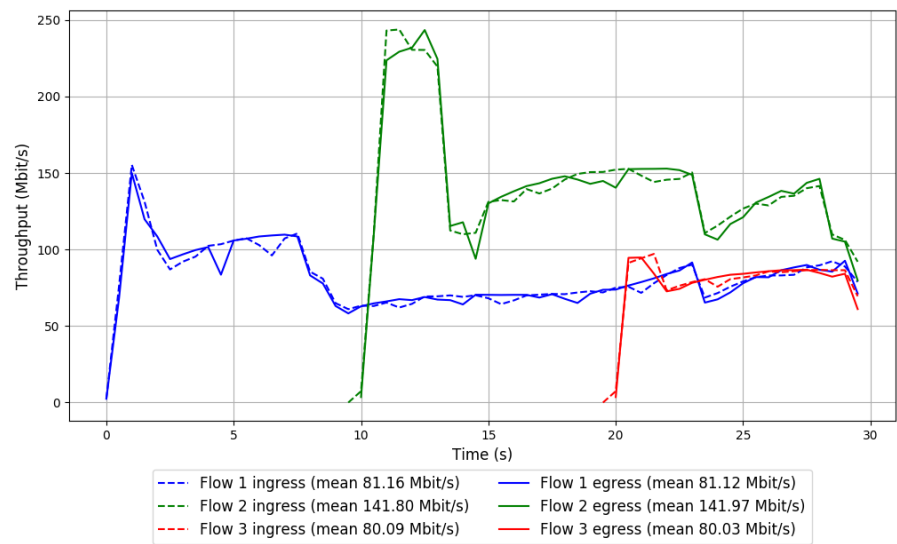
-- Flow 3:

Average throughput: 80.03 Mbit/s

95th percentile per-packet one-way delay: 53.021 ms

Loss rate: 1.09%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

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

End at: 2017-11-21 21:19:39

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.79 Mbit/s

95th percentile per-packet one-way delay: 55.629 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 101.47 Mbit/s

95th percentile per-packet one-way delay: 56.423 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 107.36 Mbit/s

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

Loss rate: 0.50%

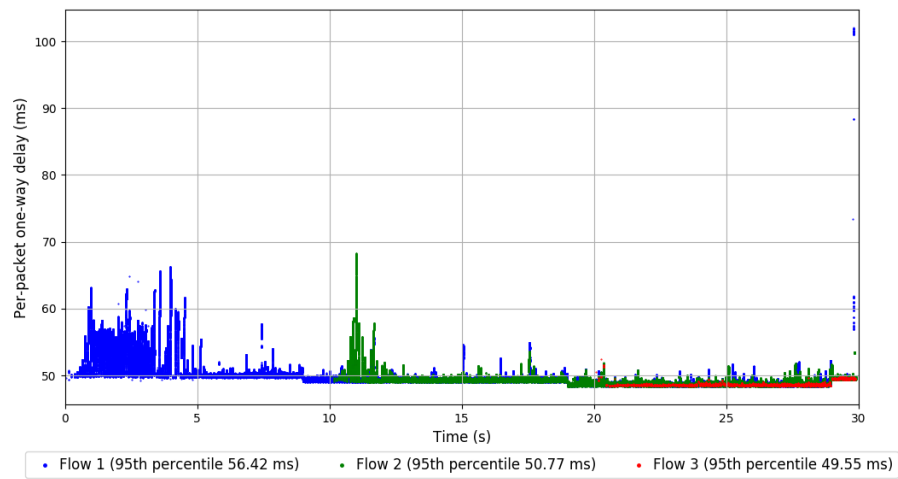
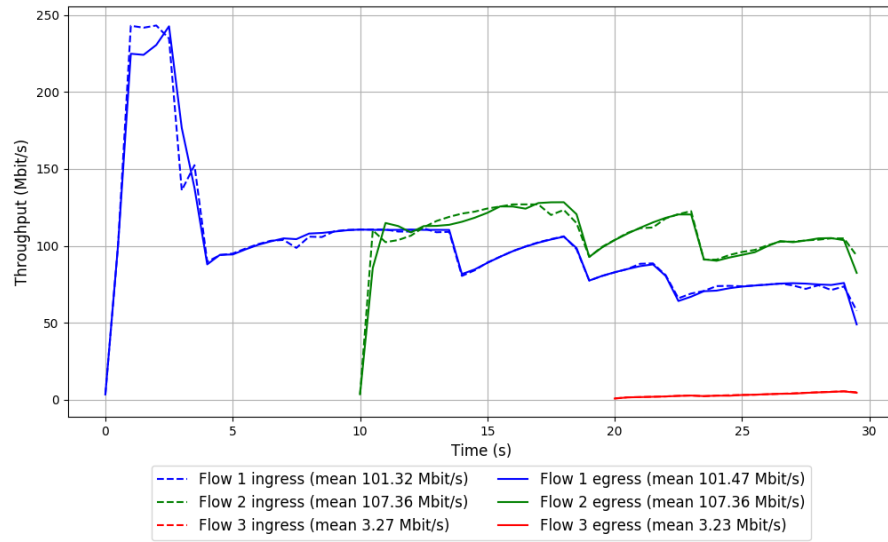
-- Flow 3:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 49.545 ms

Loss rate: 2.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 21:31:49

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

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.94 Mbit/s

95th percentile per-packet one-way delay: 58.624 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 52.641 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 111.85 Mbit/s

95th percentile per-packet one-way delay: 59.565 ms

Loss rate: 0.39%

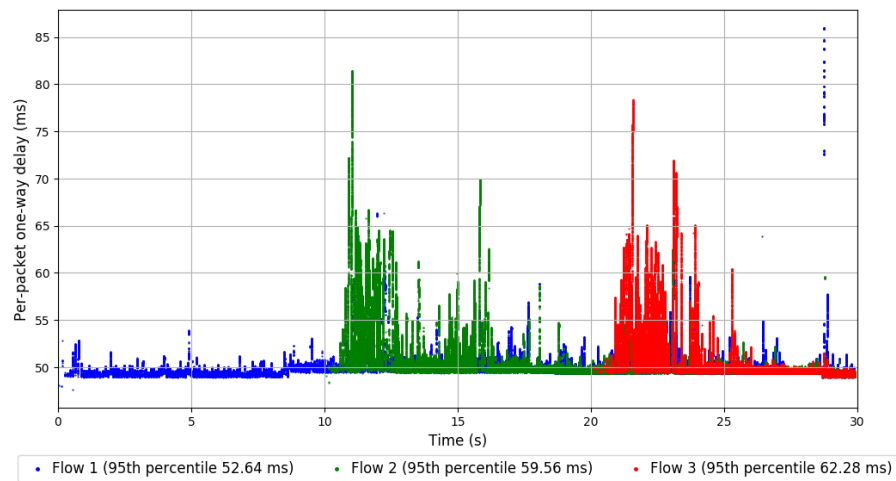
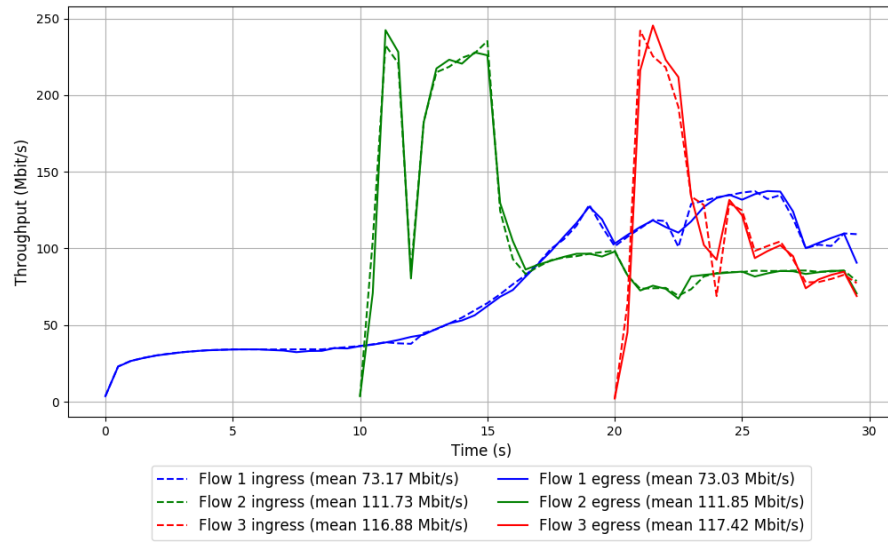
-- Flow 3:

Average throughput: 117.42 Mbit/s

95th percentile per-packet one-way delay: 62.282 ms

Loss rate: 0.76%

Run 10: Report of TCP Cubic — Data Link

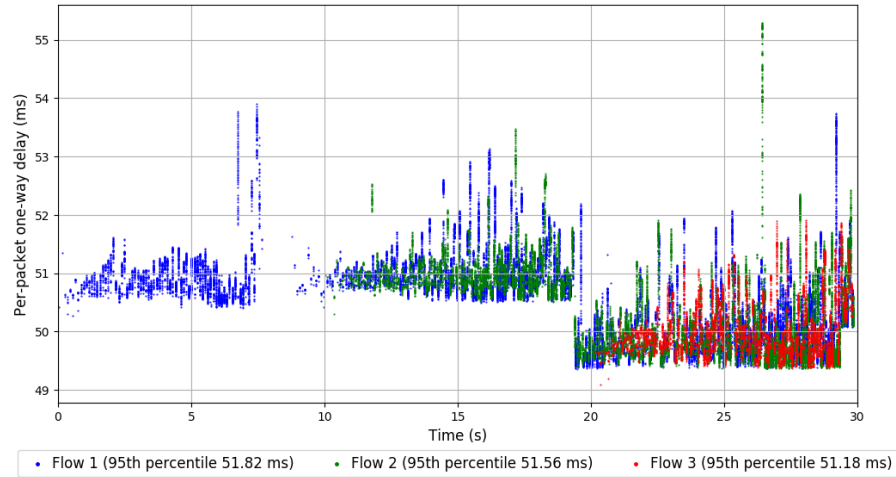
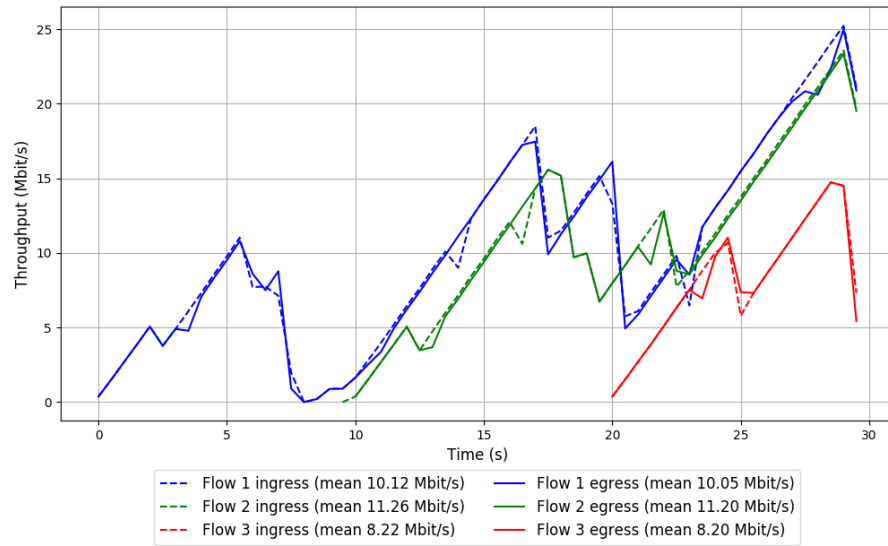


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 19:30:18
End at: 2017-11-21 19:30:48

# Below is generated by plot.py at 2017-11-21 23:56:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.15 Mbit/s
95th percentile per-packet one-way delay: 51.630 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 51.818 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 51.558 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 51.176 ms
Loss rate: 1.29%
```


Run 1: Report of LEDBAT — Data Link

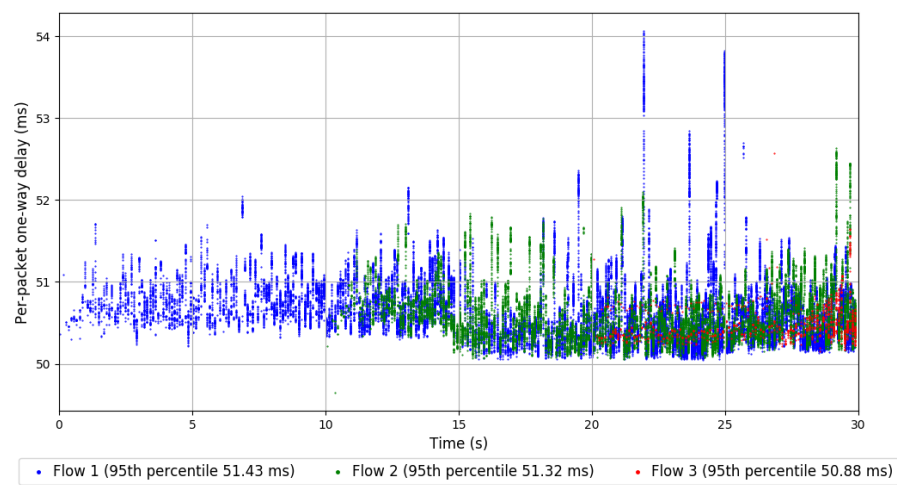
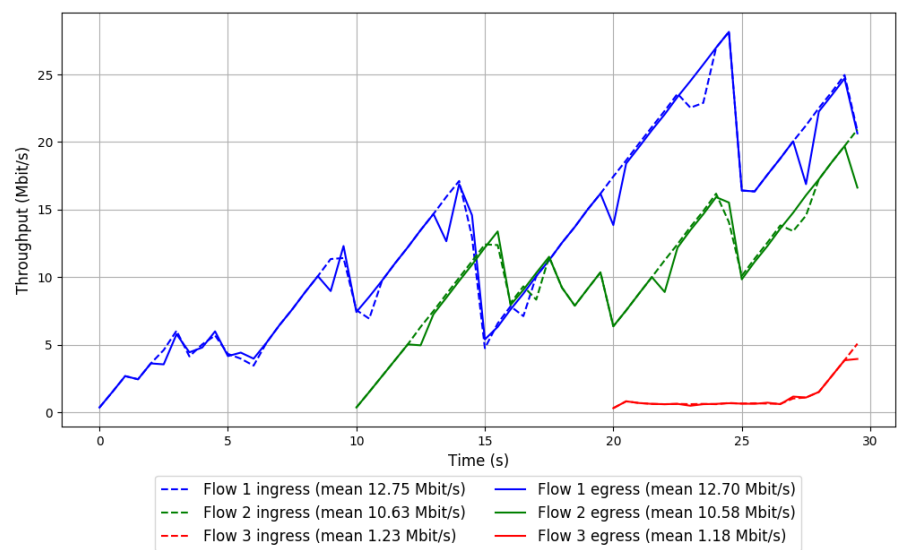


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-21 19:43:03
End at: 2017-11-21 19:43:33

# Below is generated by plot.py at 2017-11-21 23:56:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 51.380 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 51.427 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 51.321 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 4.62%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 19:55:42

End at: 2017-11-21 19:56:12

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 51.599 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 13.67 Mbit/s

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

Loss rate: 0.60%

-- Flow 2:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 51.533 ms

Loss rate: 0.95%

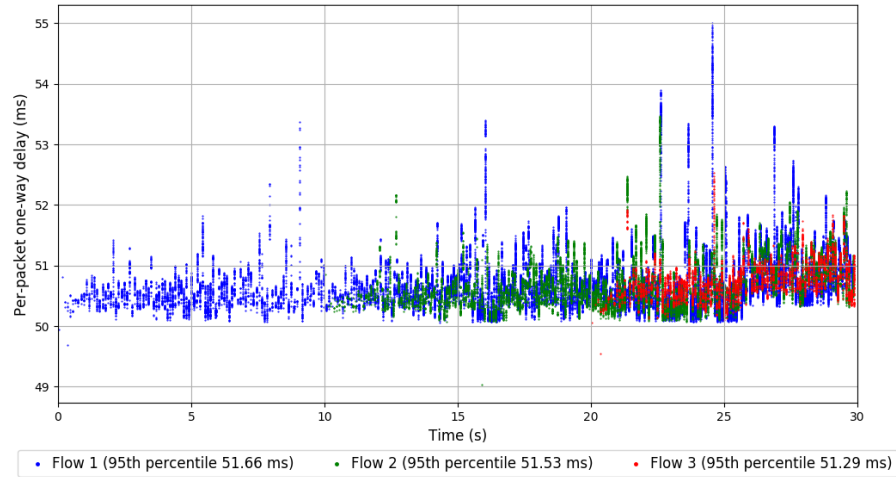
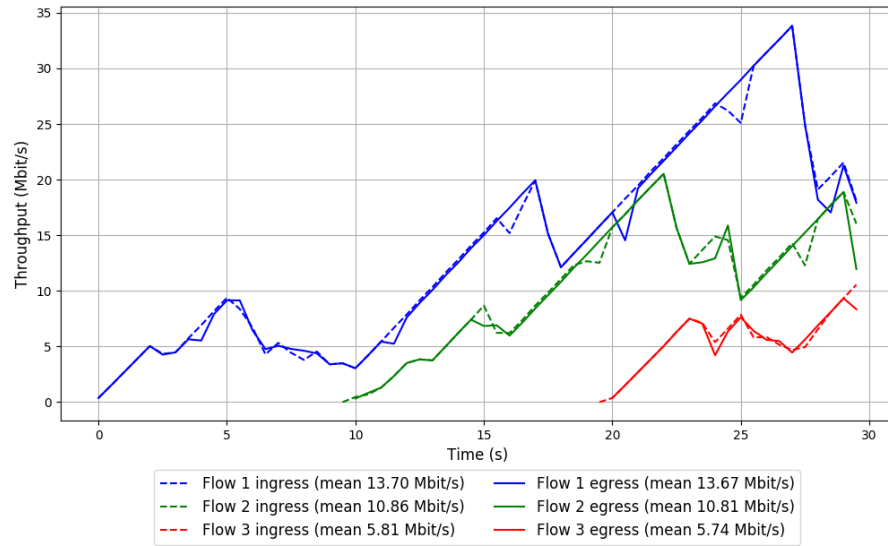
-- Flow 3:

Average throughput: 5.74 Mbit/s

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

Loss rate: 2.16%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 20:08:10

End at: 2017-11-21 20:08:41

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 51.382 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 8.16 Mbit/s

95th percentile per-packet one-way delay: 51.236 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 51.529 ms

Loss rate: 0.60%

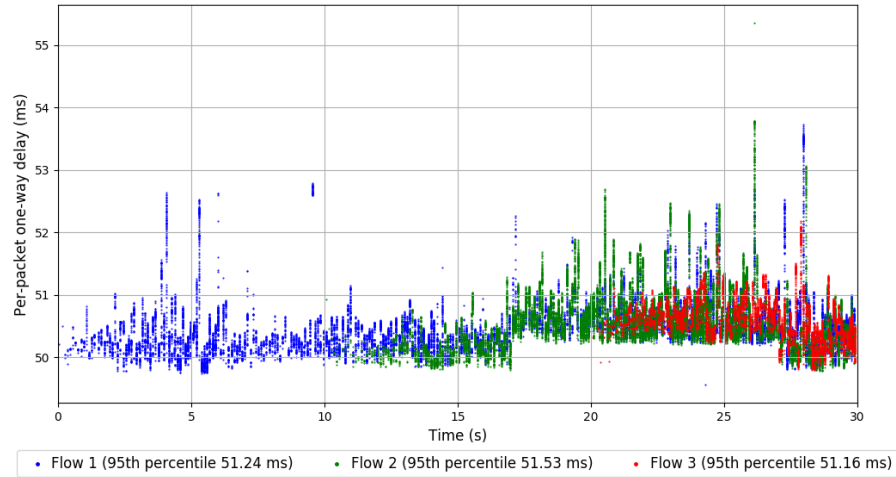
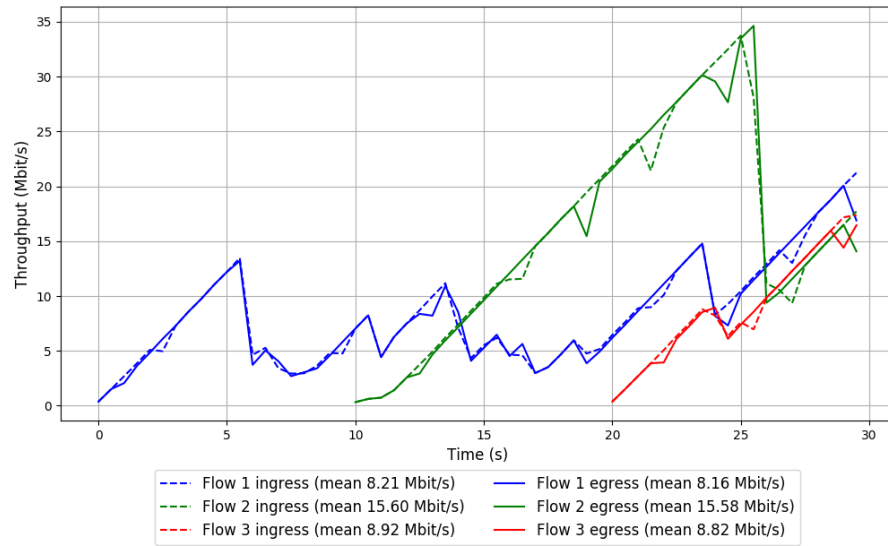
-- Flow 3:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 2.09%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

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

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 51.215 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 51.133 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 51.237 ms

Loss rate: 1.02%

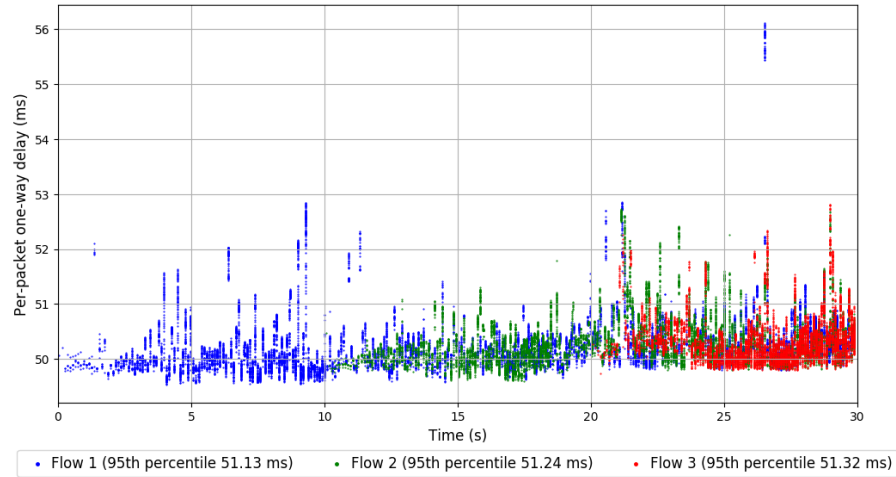
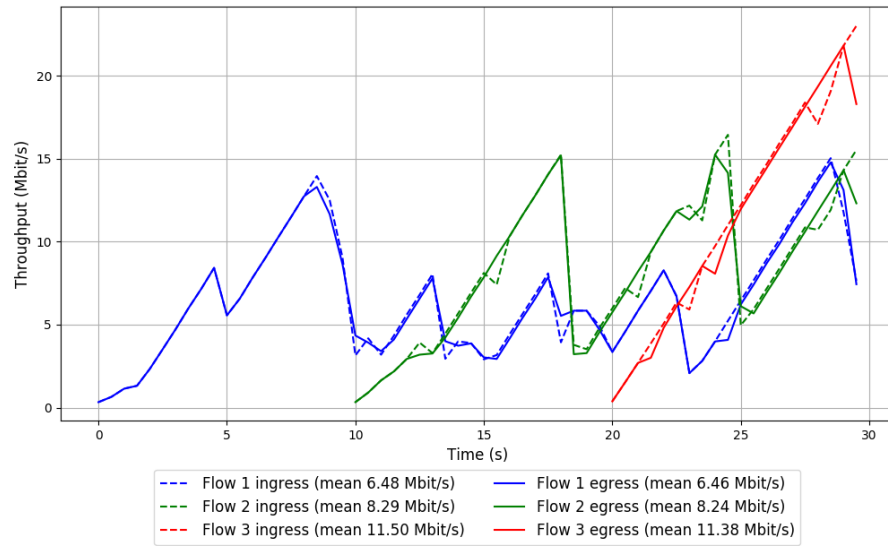
-- Flow 3:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 51.318 ms

Loss rate: 2.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 20:33:07

End at: 2017-11-21 20:33:37

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 50.473 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 50.437 ms

Loss rate: 0.69%

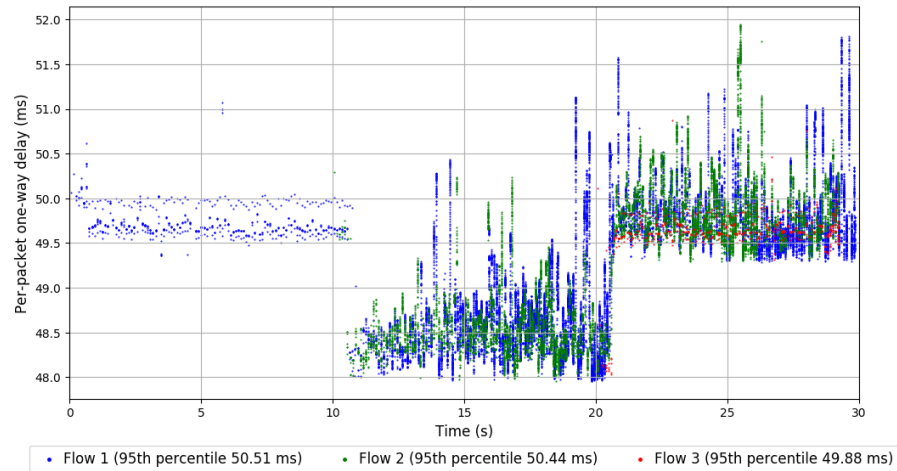
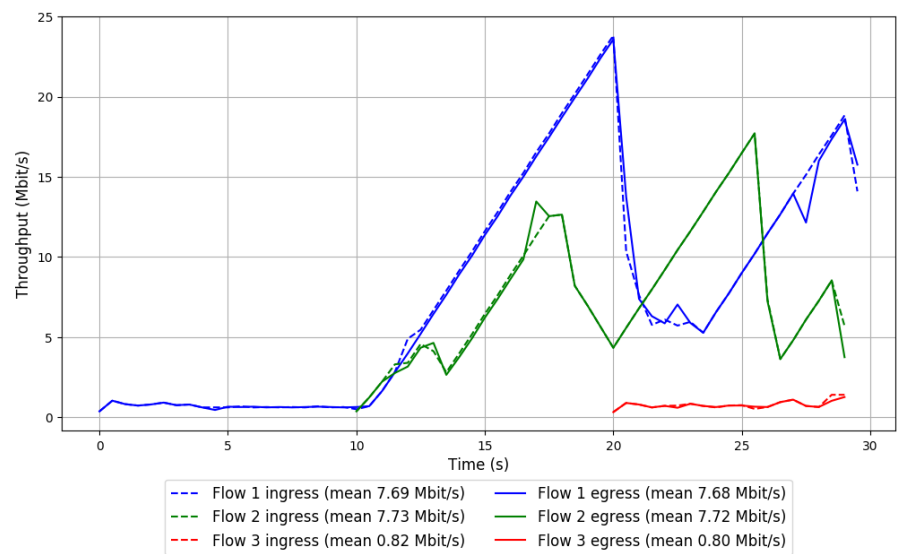
-- Flow 3:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 49.884 ms

Loss rate: 3.40%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 20:45:37

End at: 2017-11-21 20:46:07

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.27 Mbit/s

95th percentile per-packet one-way delay: 51.246 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 10.48 Mbit/s

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

Loss rate: 0.90%

-- Flow 2:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 51.584 ms

Loss rate: 1.59%

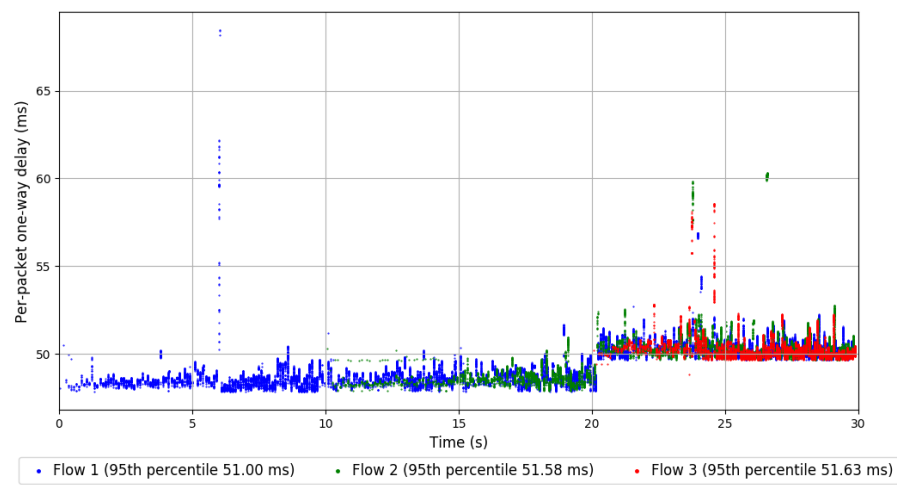
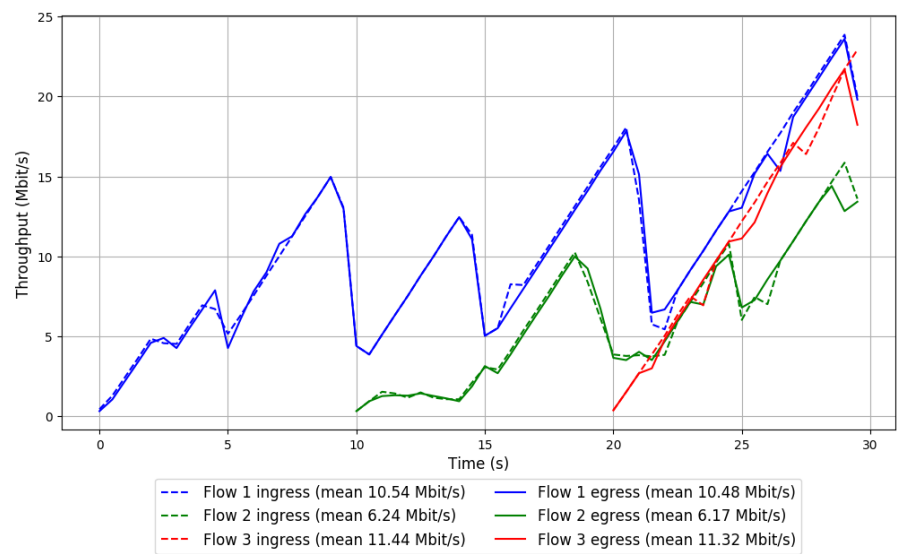
-- Flow 3:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 51.635 ms

Loss rate: 2.07%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 20:57:59

End at: 2017-11-21 20:58:29

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.84 Mbit/s

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

Loss rate: 0.71%

-- Flow 1:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 50.643 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 50.506 ms

Loss rate: 0.43%

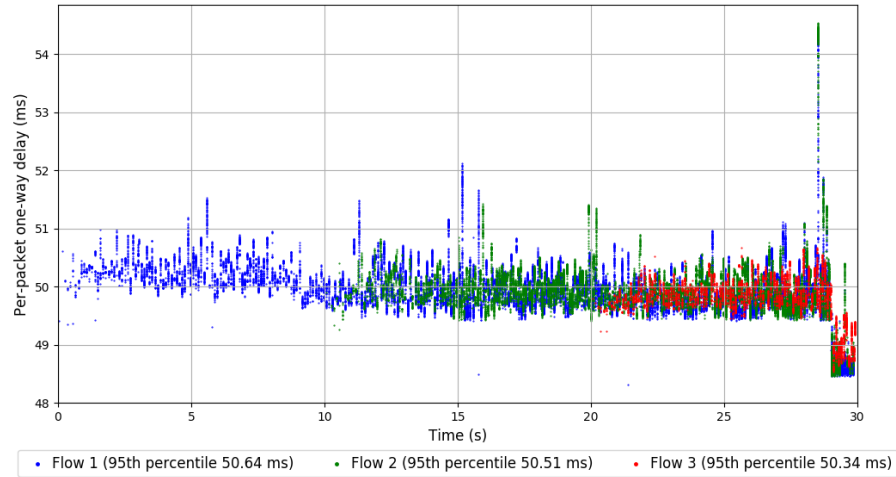
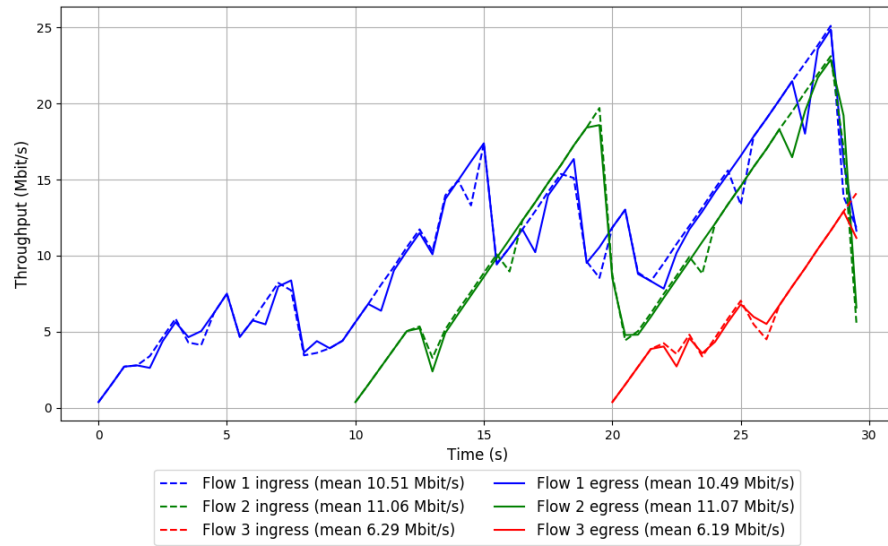
-- Flow 3:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 50.342 ms

Loss rate: 2.57%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 21:10:31

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

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.89 Mbit/s

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

Loss rate: 0.94%

-- Flow 1:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 50.713 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 1.39%

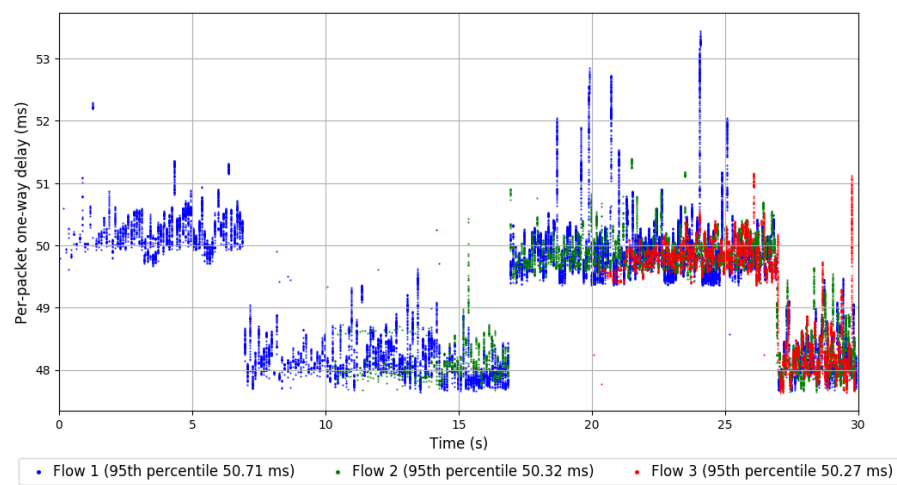
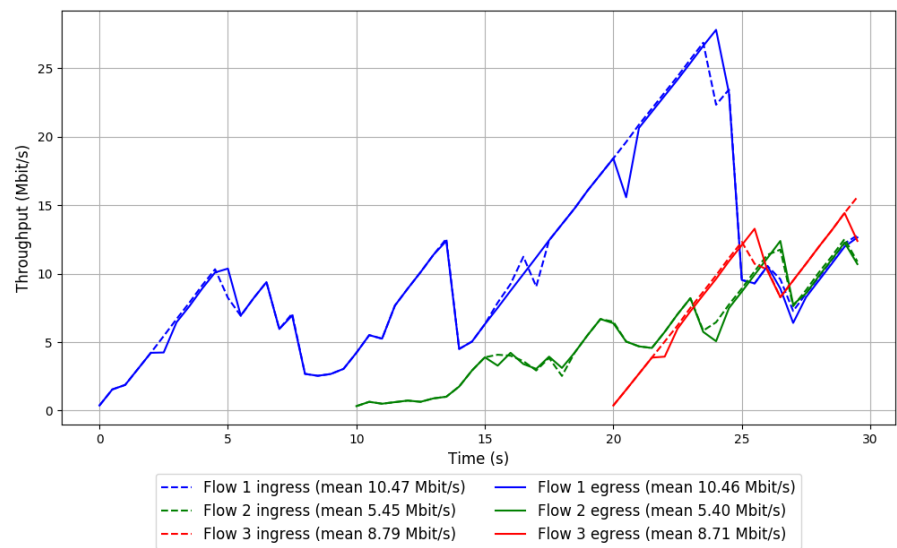
-- Flow 3:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 50.272 ms

Loss rate: 1.90%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 21:22:57

End at: 2017-11-21 21:23:27

Below is generated by plot.py at 2017-11-21 23:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 49.979 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 50.057 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 49.976 ms

Loss rate: 0.63%

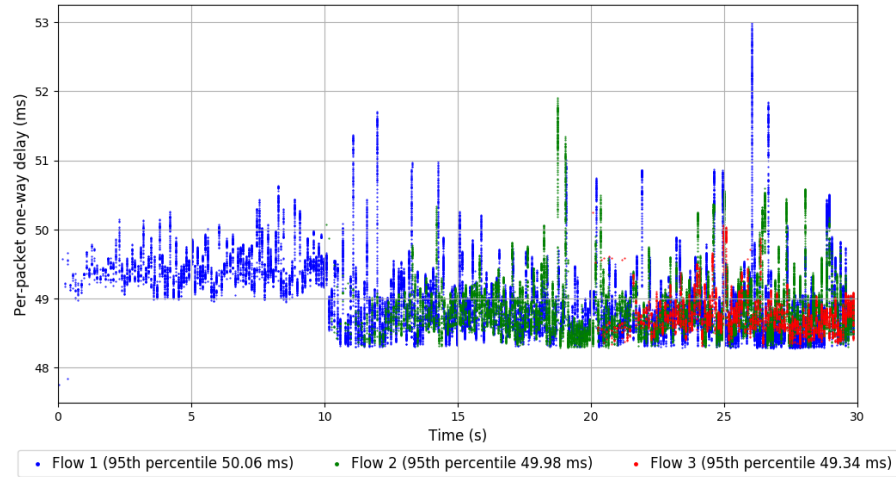
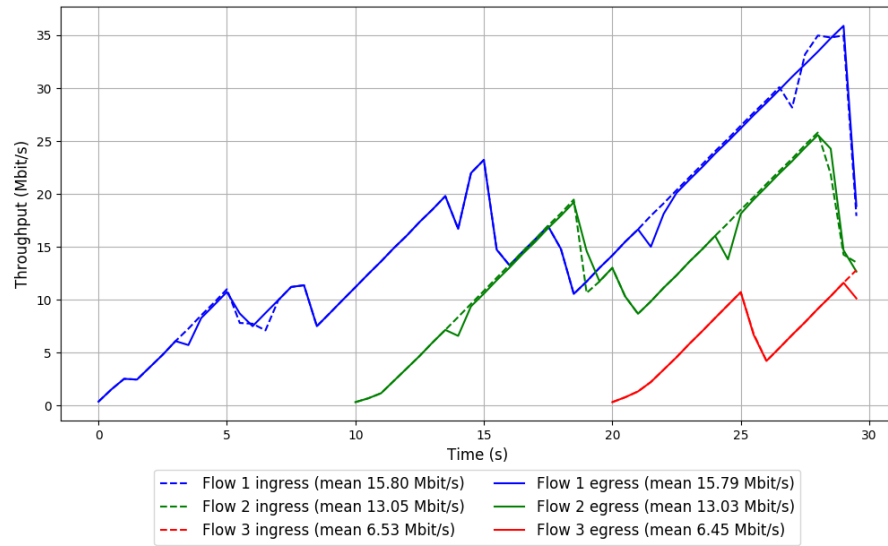
-- Flow 3:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 49.342 ms

Loss rate: 2.15%

Run 10: Report of LEDBAT — Data Link

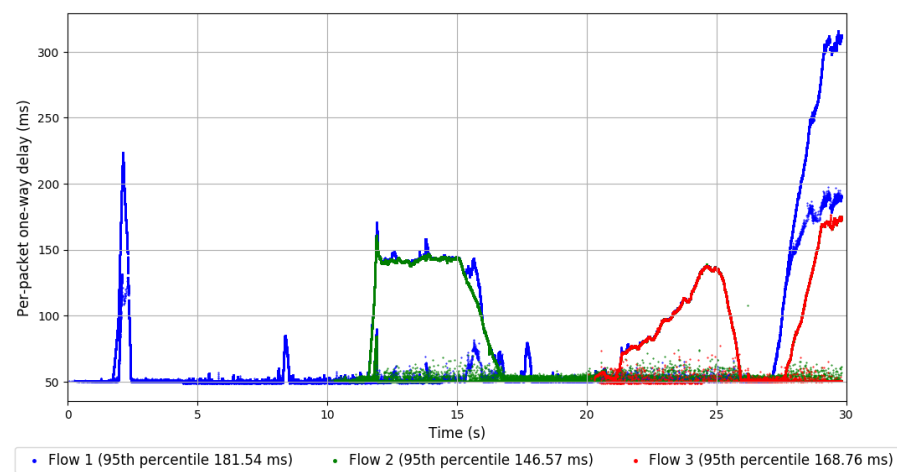
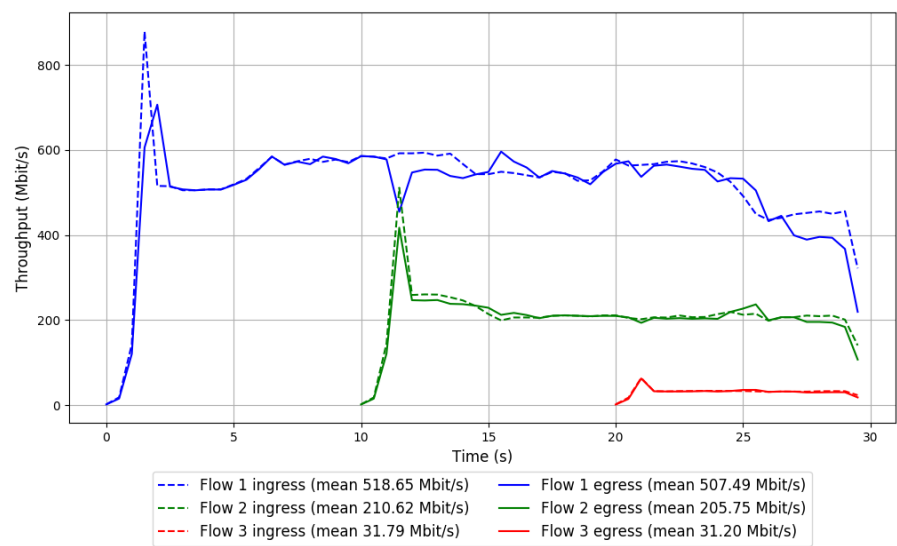


```
Run 1: Statistics of PCC

Start at: 2017-11-21 19:37:53
End at: 2017-11-21 19:38:23

# Below is generated by plot.py at 2017-11-22 00:07:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 654.25 Mbit/s
95th percentile per-packet one-way delay: 167.681 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 507.49 Mbit/s
95th percentile per-packet one-way delay: 181.536 ms
Loss rate: 2.48%
-- Flow 2:
Average throughput: 205.75 Mbit/s
95th percentile per-packet one-way delay: 146.569 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 168.756 ms
Loss rate: 2.93%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 19:50:37

End at: 2017-11-21 19:51:07

Below is generated by plot.py at 2017-11-22 00:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 653.36 Mbit/s

95th percentile per-packet one-way delay: 187.737 ms

Loss rate: 3.50%

-- Flow 1:

Average throughput: 535.05 Mbit/s

95th percentile per-packet one-way delay: 199.594 ms

Loss rate: 4.05%

-- Flow 2:

Average throughput: 146.88 Mbit/s

95th percentile per-packet one-way delay: 139.826 ms

Loss rate: 0.80%

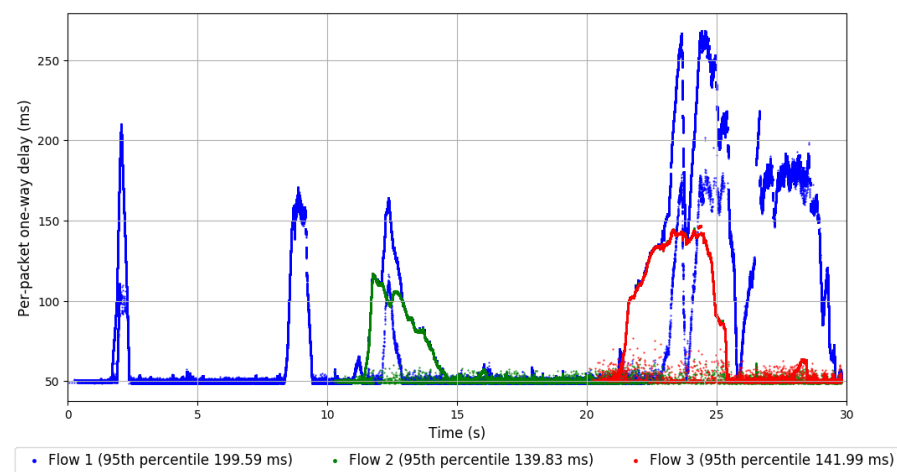
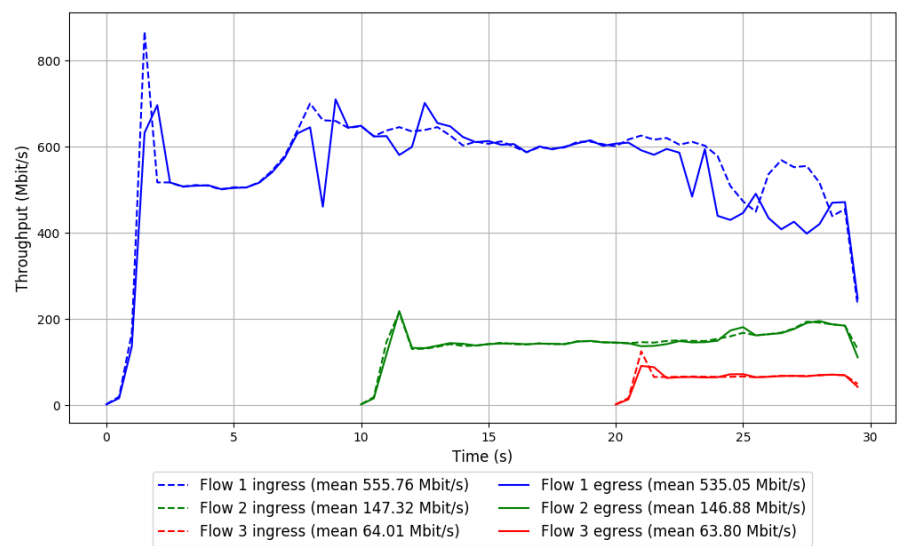
-- Flow 3:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 141.988 ms

Loss rate: 1.45%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

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

End at: 2017-11-21 20:03:45

Below is generated by plot.py at 2017-11-22 00:08:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 681.65 Mbit/s

95th percentile per-packet one-way delay: 173.765 ms

Loss rate: 3.82%

-- Flow 1:

Average throughput: 542.12 Mbit/s

95th percentile per-packet one-way delay: 179.063 ms

Loss rate: 3.72%

-- Flow 2:

Average throughput: 152.96 Mbit/s

95th percentile per-packet one-way delay: 149.933 ms

Loss rate: 3.19%

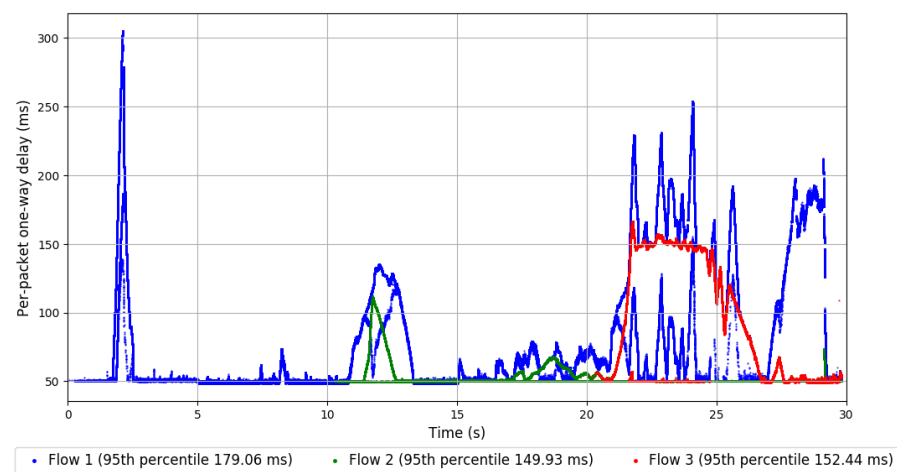
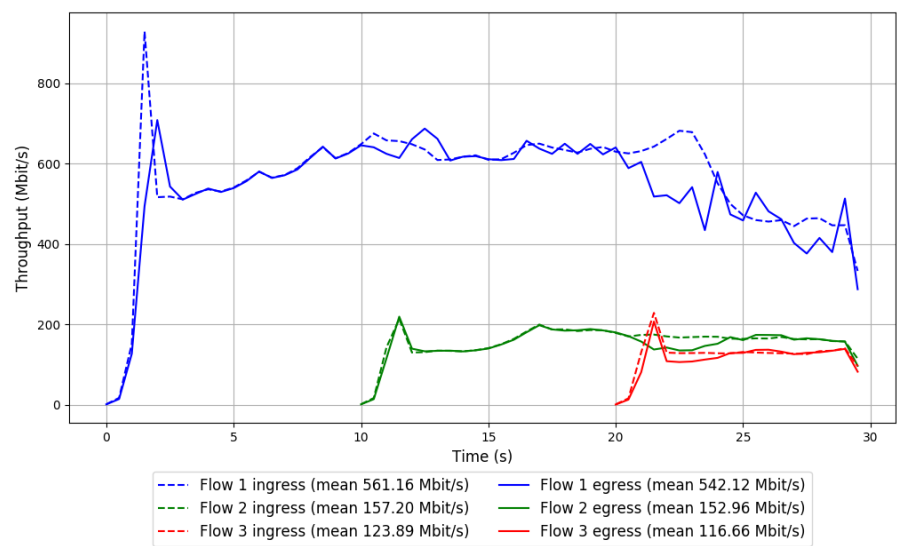
-- Flow 3:

Average throughput: 116.66 Mbit/s

95th percentile per-packet one-way delay: 152.443 ms

Loss rate: 6.83%

Run 3: Report of PCC — Data Link

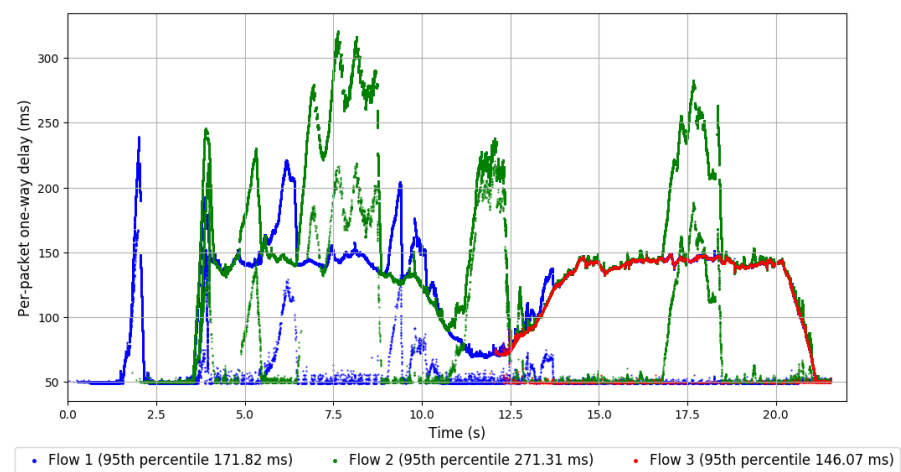
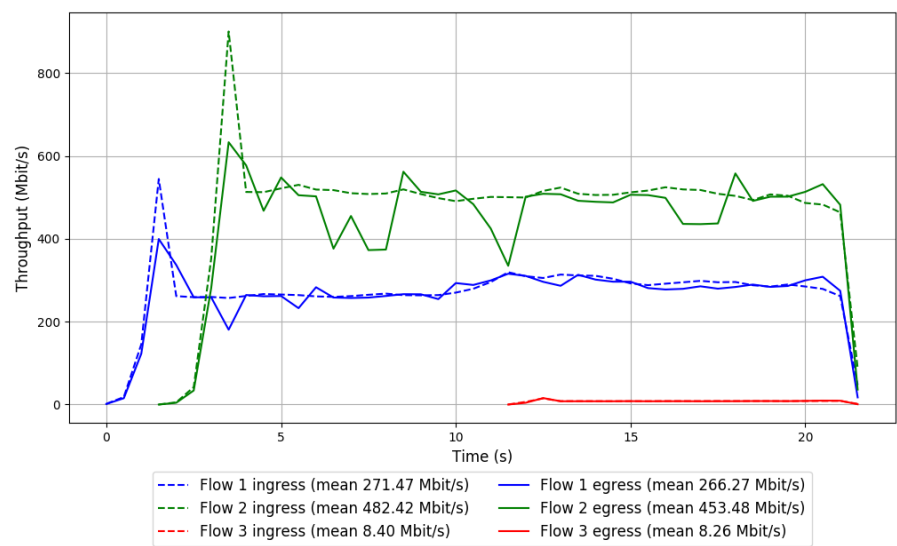


Run 4: Statistics of PCC

Start at: 2017-11-21 20:15:51

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

Run 4: Report of PCC — Data Link

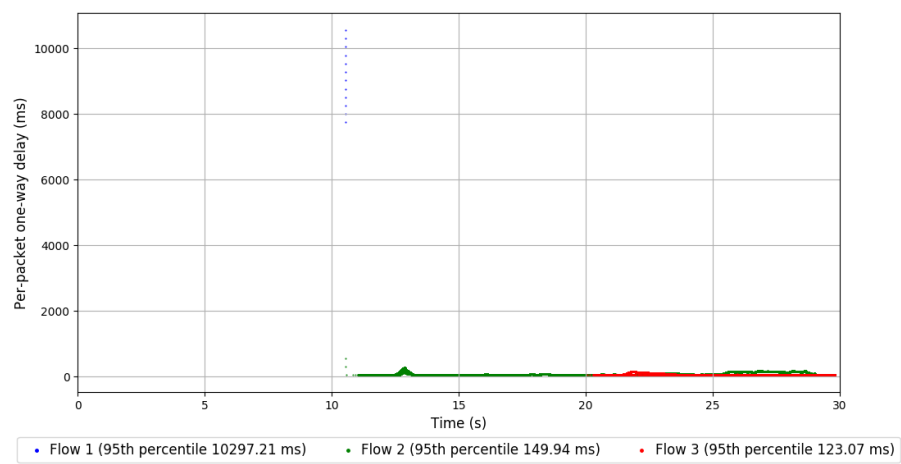
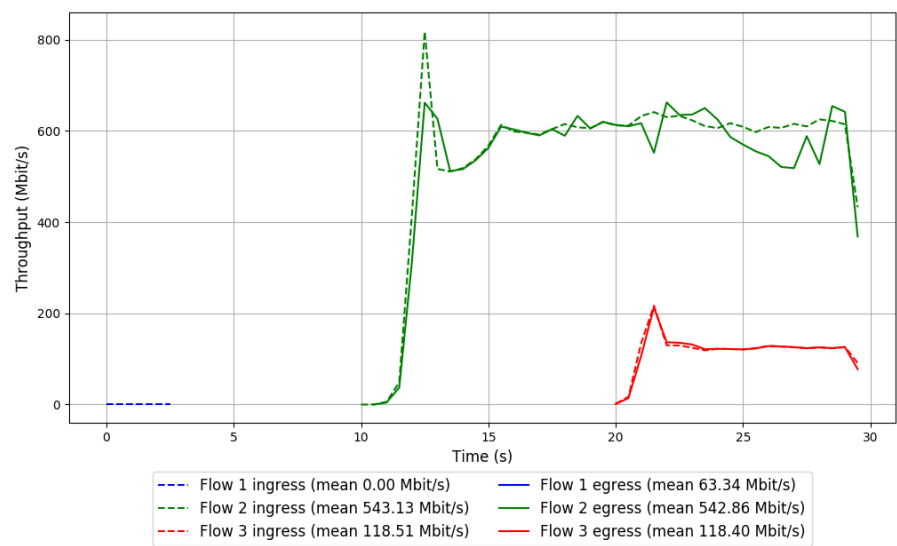


Run 5: Statistics of PCC

Start at: 2017-11-21 20:28:18

End at: 2017-11-21 20:28:48

Run 5: Report of PCC — Data Link

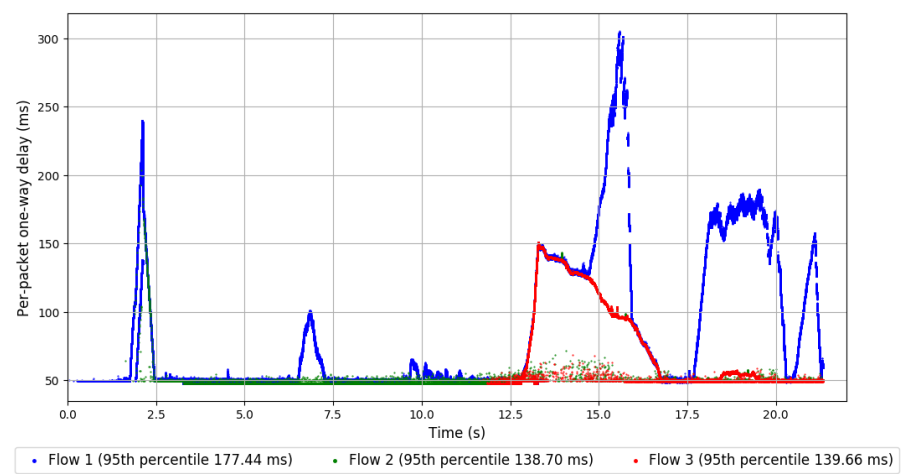
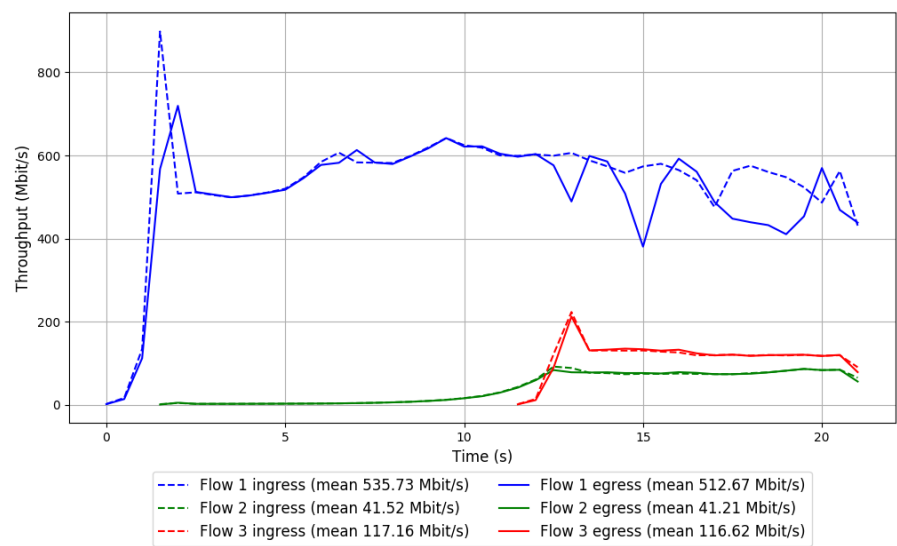


Run 6: Statistics of PCC

Start at: 2017-11-21 20:40:46

End at: 2017-11-21 20:41:16

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 20:53:08

End at: 2017-11-21 20:53:38

Below is generated by plot.py at 2017-11-22 00:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.09 Mbit/s

95th percentile per-packet one-way delay: 155.712 ms

Loss rate: 7.45%

-- Flow 1:

Average throughput: 45.34 Mbit/s

95th percentile per-packet one-way delay: 2933.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 531.10 Mbit/s

95th percentile per-packet one-way delay: 157.163 ms

Loss rate: 6.48%

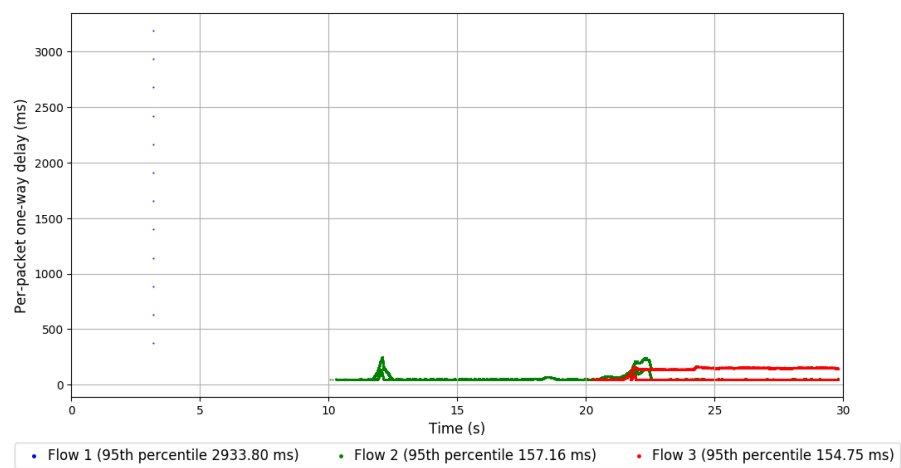
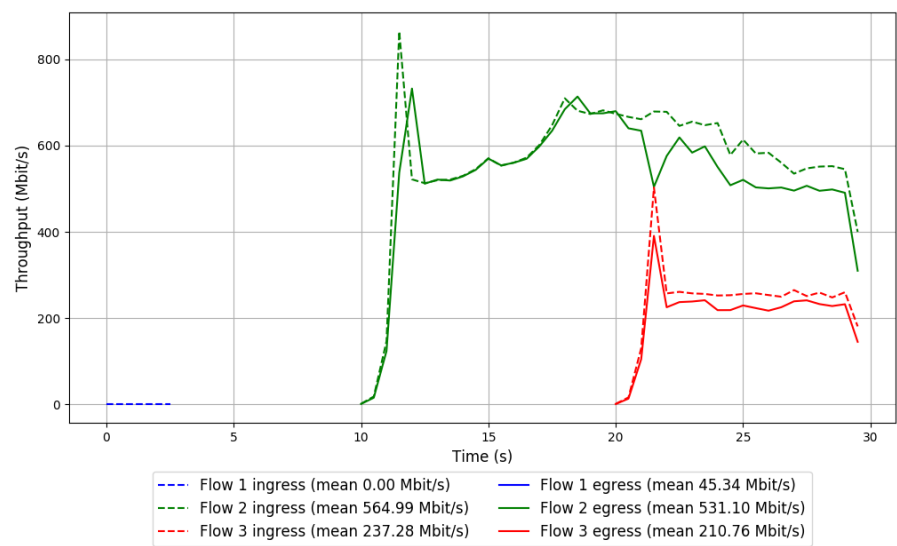
-- Flow 3:

Average throughput: 210.76 Mbit/s

95th percentile per-packet one-way delay: 154.751 ms

Loss rate: 12.12%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 21:05:30

End at: 2017-11-21 21:06:00

Below is generated by plot.py at 2017-11-22 00:09:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 671.79 Mbit/s

95th percentile per-packet one-way delay: 205.549 ms

Loss rate: 4.22%

-- Flow 1:

Average throughput: 506.39 Mbit/s

95th percentile per-packet one-way delay: 214.906 ms

Loss rate: 4.74%

-- Flow 2:

Average throughput: 217.48 Mbit/s

95th percentile per-packet one-way delay: 144.448 ms

Loss rate: 2.80%

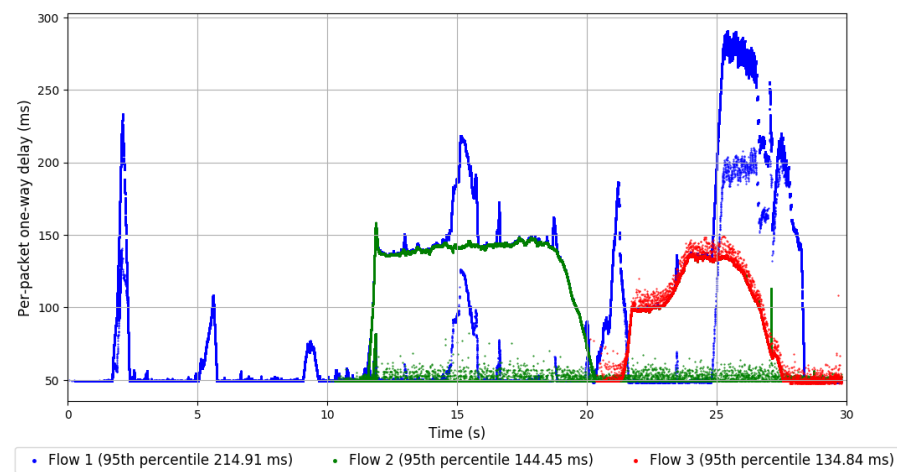
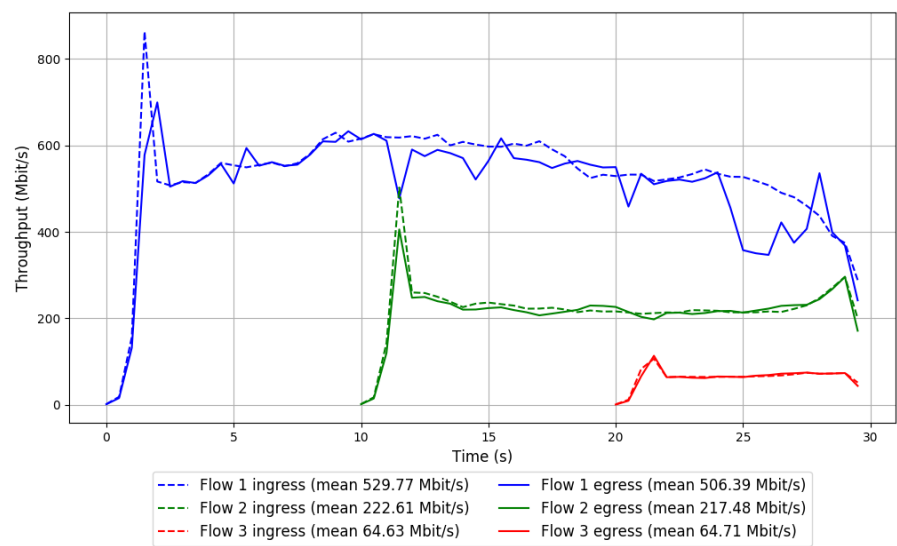
-- Flow 3:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 134.843 ms

Loss rate: 1.19%

Run 8: Report of PCC — Data Link

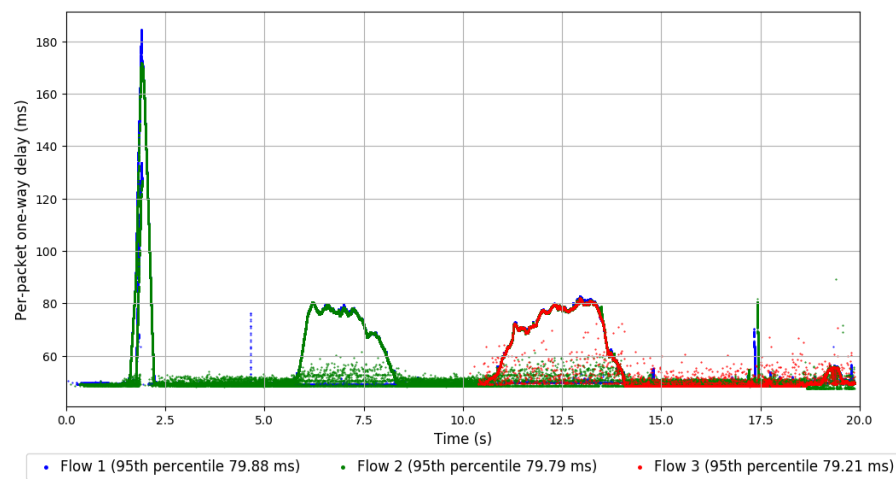
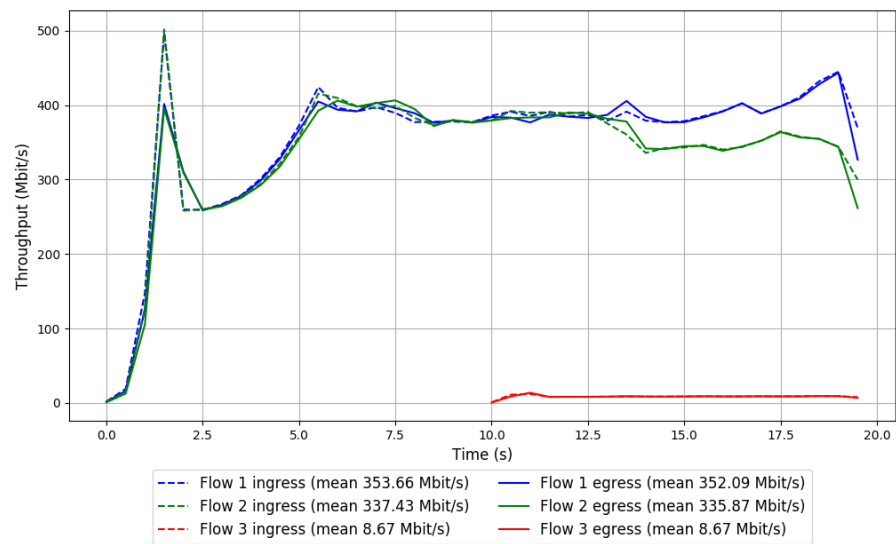


Run 9: Statistics of PCC

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

End at: 2017-11-21 21:18:39

Run 9: Report of PCC — Data Link

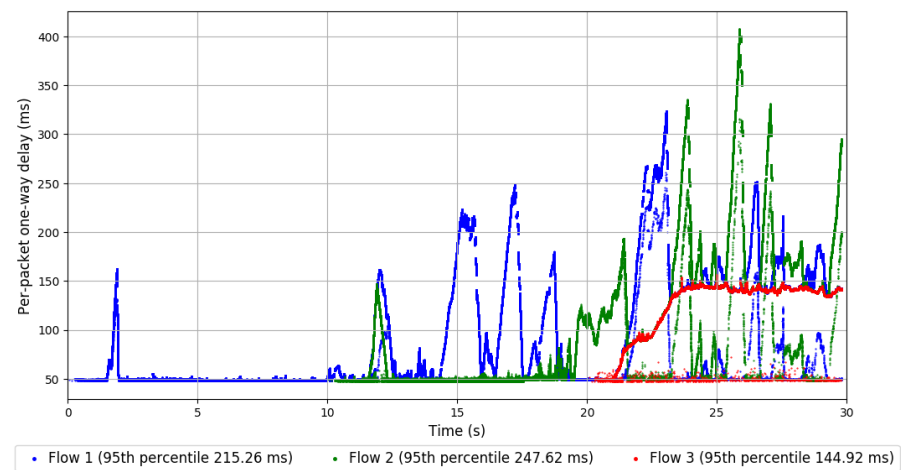
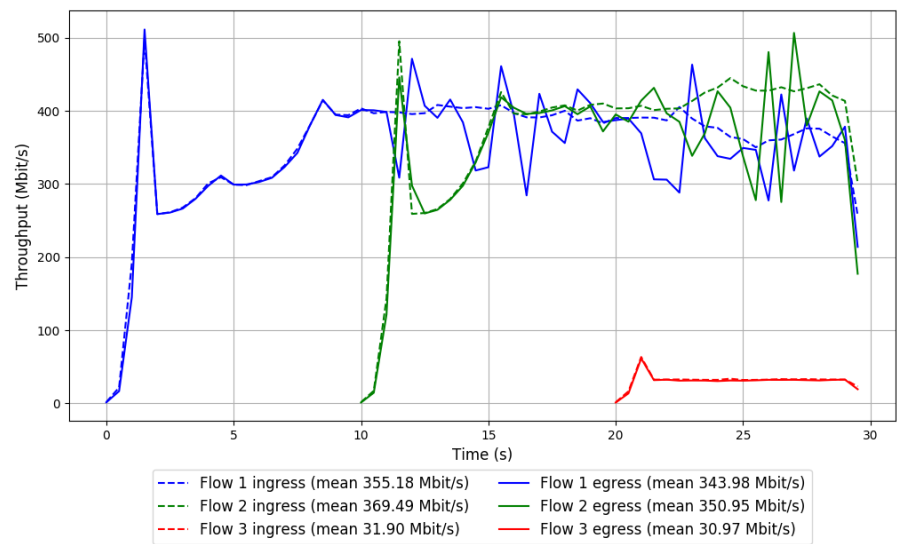


```
Run 10: Statistics of PCC

Start at: 2017-11-21 21:30:42
End at: 2017-11-21 21:31:12

# Below is generated by plot.py at 2017-11-22 00:16:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 586.96 Mbit/s
95th percentile per-packet one-way delay: 221.299 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 343.98 Mbit/s
95th percentile per-packet one-way delay: 215.263 ms
Loss rate: 3.48%
-- Flow 2:
Average throughput: 350.95 Mbit/s
95th percentile per-packet one-way delay: 247.624 ms
Loss rate: 5.50%
-- Flow 3:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 144.919 ms
Loss rate: 3.93%
```

Run 10: Report of PCC — Data Link

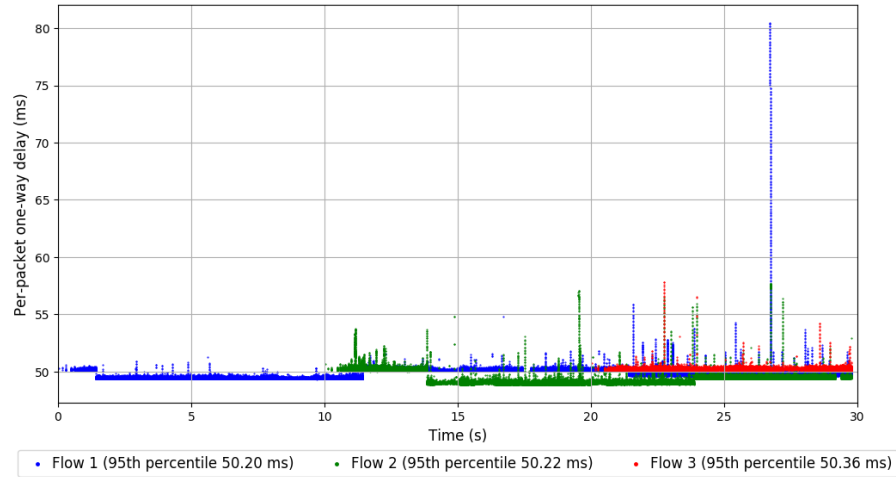
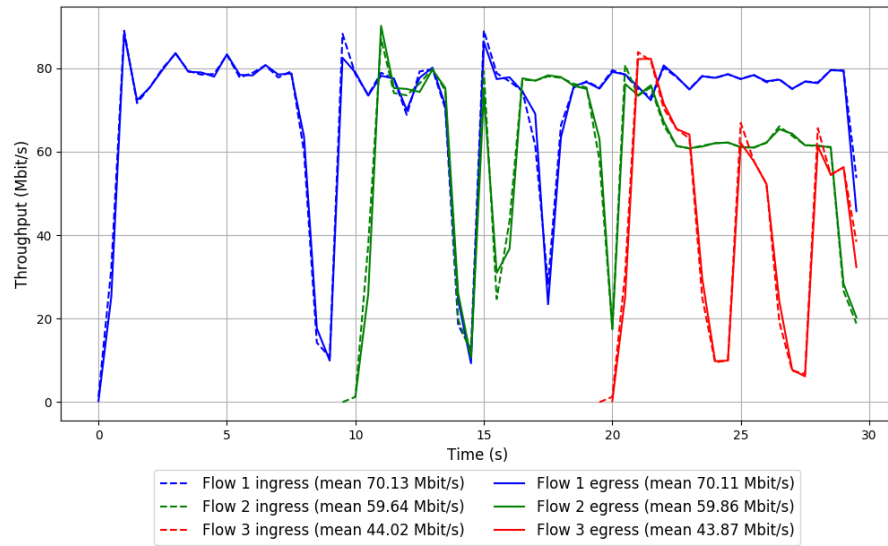


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 19:37:06
End at: 2017-11-21 19:37:36

# Below is generated by plot.py at 2017-11-22 00:16:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.23 Mbit/s
95th percentile per-packet one-way delay: 50.250 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 70.11 Mbit/s
95th percentile per-packet one-way delay: 50.200 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 59.86 Mbit/s
95th percentile per-packet one-way delay: 50.217 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: 50.360 ms
Loss rate: 1.34%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 19:49:51

End at: 2017-11-21 19:50:21

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.02 Mbit/s

95th percentile per-packet one-way delay: 50.858 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 50.538 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 61.66 Mbit/s

95th percentile per-packet one-way delay: 50.937 ms

Loss rate: 0.58%

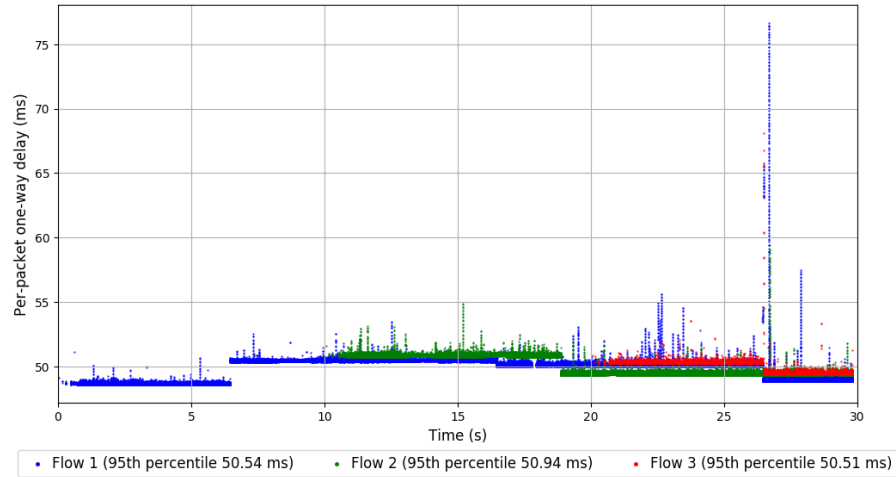
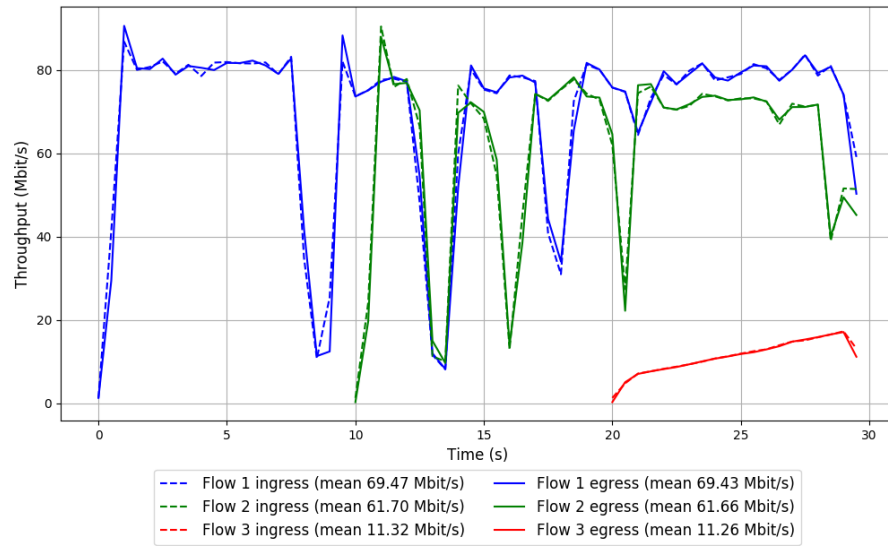
-- Flow 3:

Average throughput: 11.26 Mbit/s

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

Loss rate: 1.58%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 20:02:30

End at: 2017-11-21 20:03:00

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 50.391 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 64.81 Mbit/s

95th percentile per-packet one-way delay: 50.391 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 49.603 ms

Loss rate: 1.29%

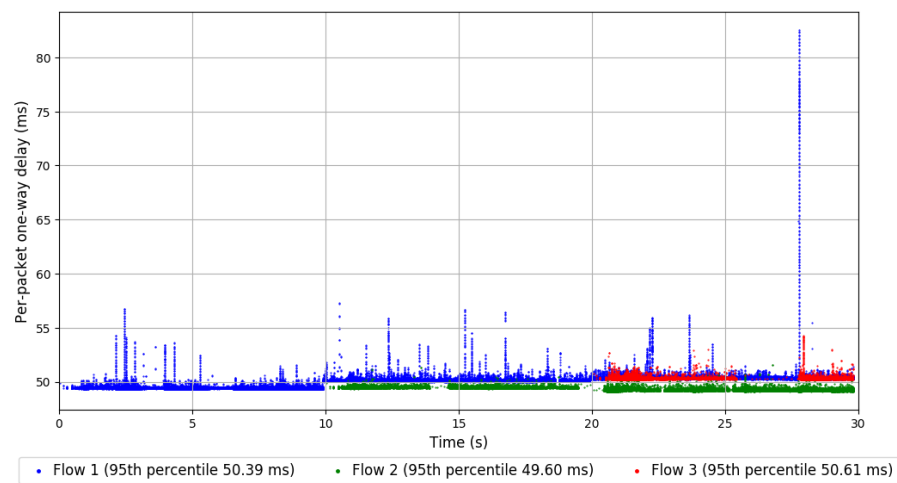
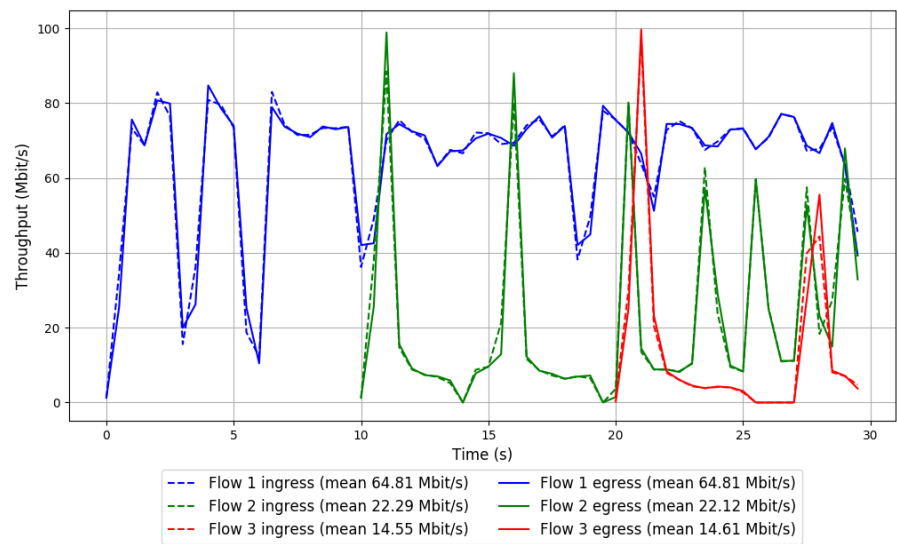
-- Flow 3:

Average throughput: 14.61 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.57%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 20:15:04

End at: 2017-11-21 20:15:34

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.40 Mbit/s

95th percentile per-packet one-way delay: 50.050 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 49.856 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 50.247 ms

Loss rate: 0.88%

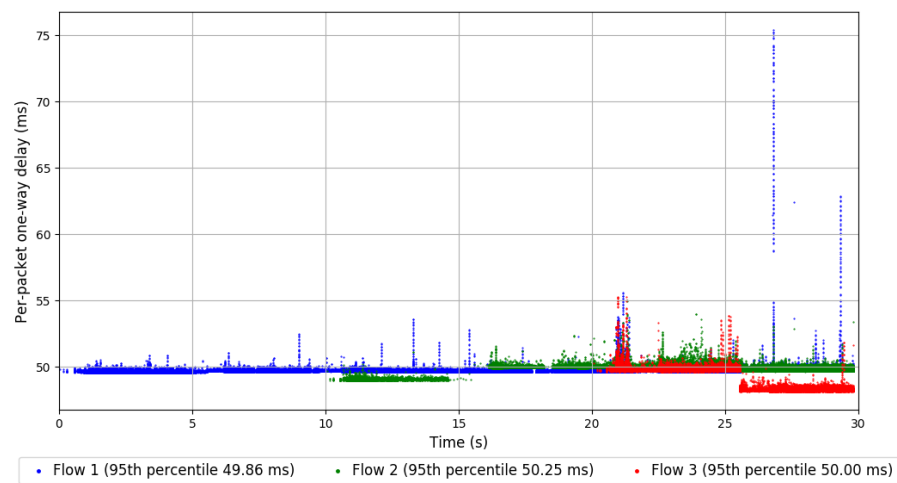
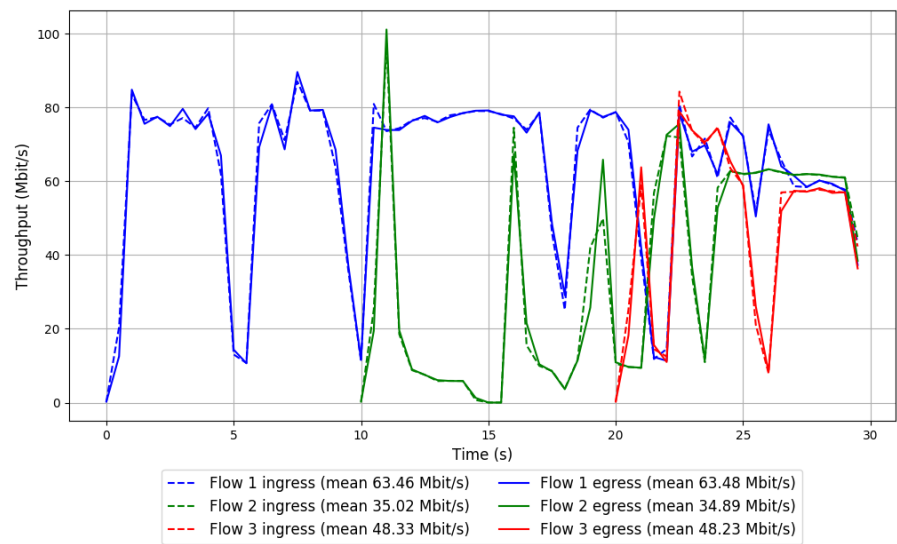
-- Flow 3:

Average throughput: 48.23 Mbit/s

95th percentile per-packet one-way delay: 50.000 ms

Loss rate: 1.22%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 20:27:34

End at: 2017-11-21 20:28:04

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.90 Mbit/s

95th percentile per-packet one-way delay: 50.015 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 40.18 Mbit/s

95th percentile per-packet one-way delay: 50.028 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 22.61 Mbit/s

95th percentile per-packet one-way delay: 49.932 ms

Loss rate: 0.28%

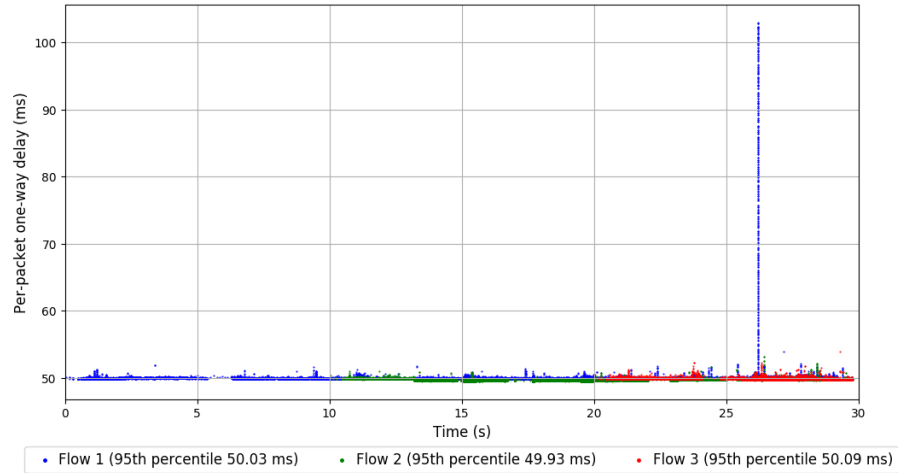
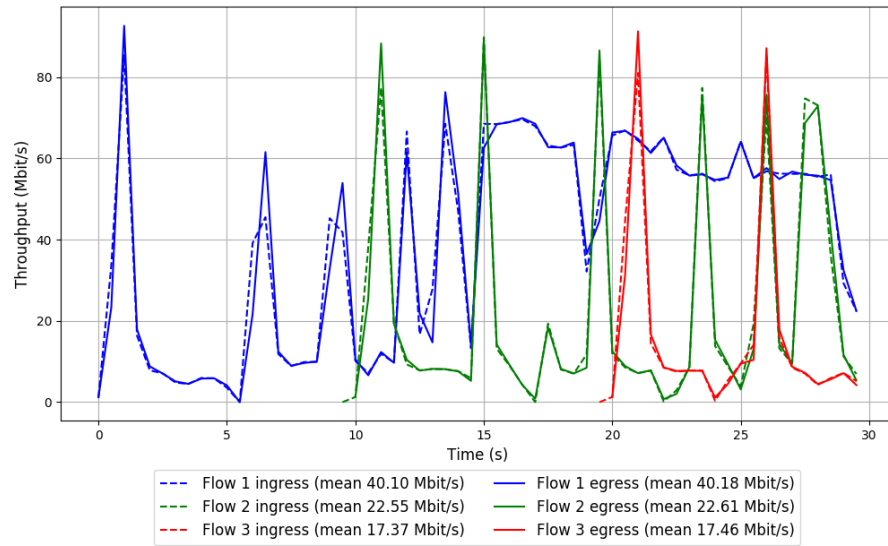
-- Flow 3:

Average throughput: 17.46 Mbit/s

95th percentile per-packet one-way delay: 50.088 ms

Loss rate: 0.50%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 20:39:59

End at: 2017-11-21 20:40:29

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.19 Mbit/s

95th percentile per-packet one-way delay: 49.831 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 67.35 Mbit/s

95th percentile per-packet one-way delay: 49.784 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 66.80 Mbit/s

95th percentile per-packet one-way delay: 49.862 ms

Loss rate: 0.45%

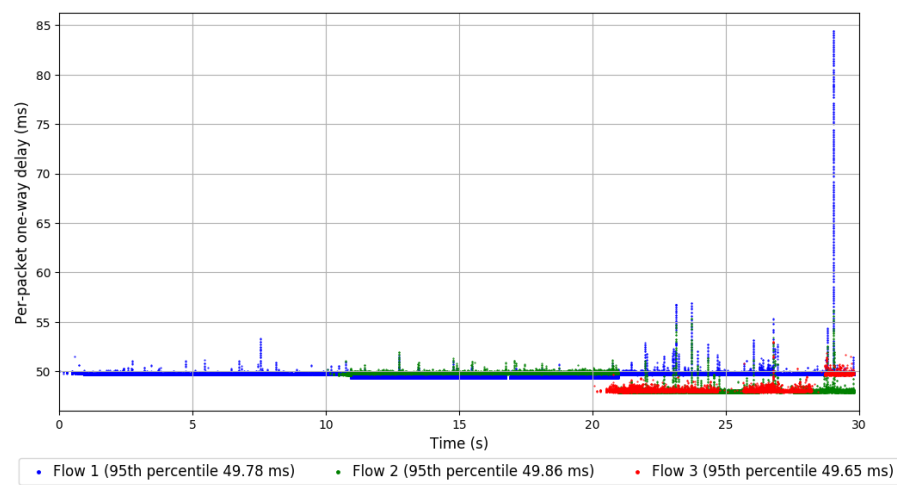
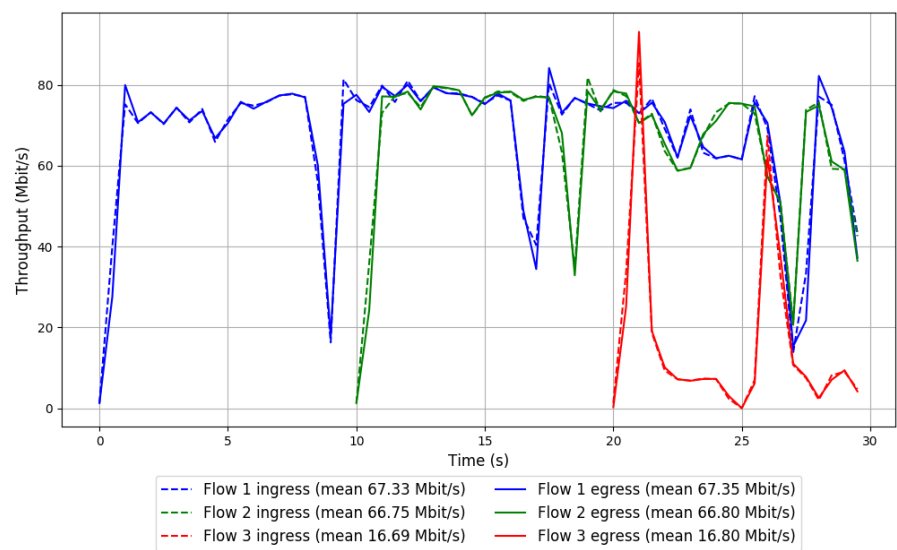
-- Flow 3:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 49.652 ms

Loss rate: 0.39%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 20:52:23

End at: 2017-11-21 20:52:53

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 49.791 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 49.707 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 49.372 ms

Loss rate: 0.43%

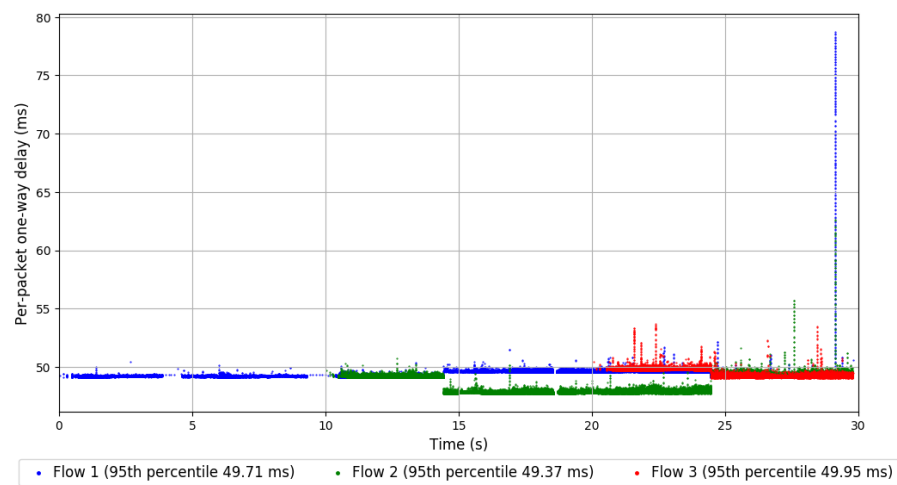
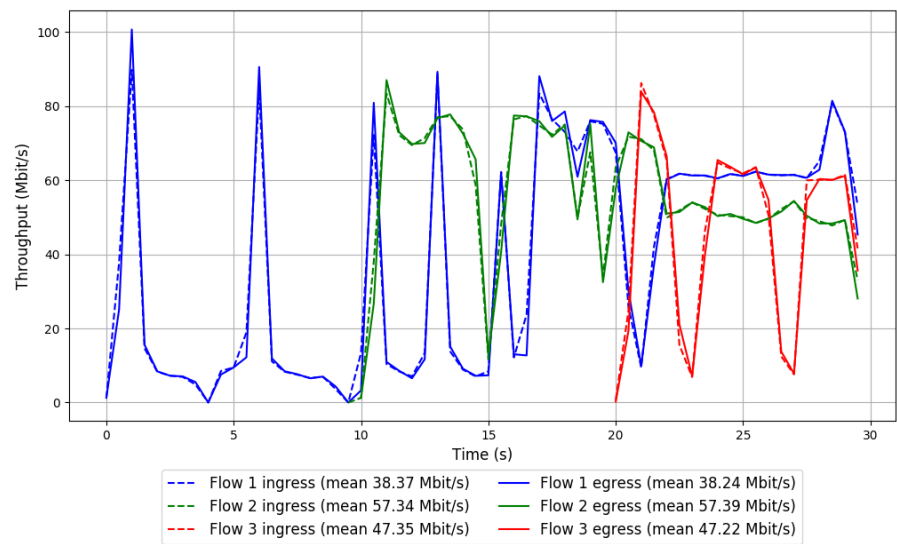
-- Flow 3:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 49.955 ms

Loss rate: 1.30%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 21:04:47

End at: 2017-11-21 21:05:17

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 49.168 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: 49.218 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 48.533 ms

Loss rate: 0.25%

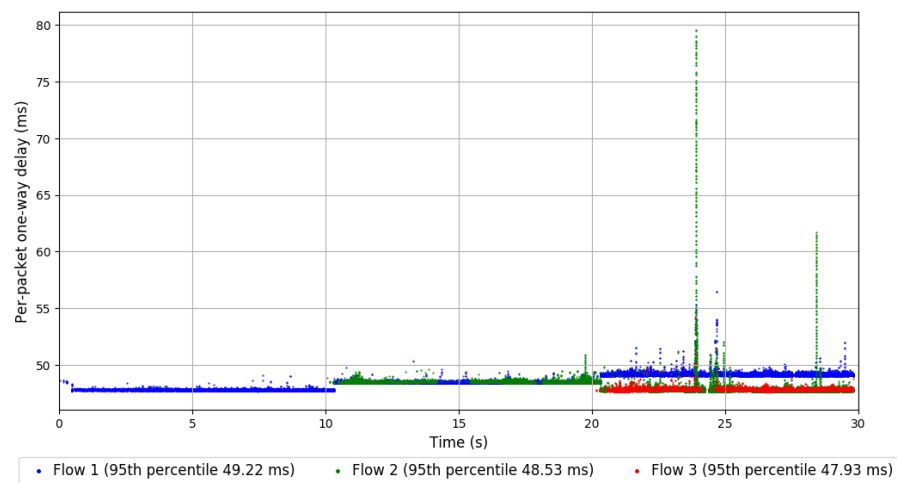
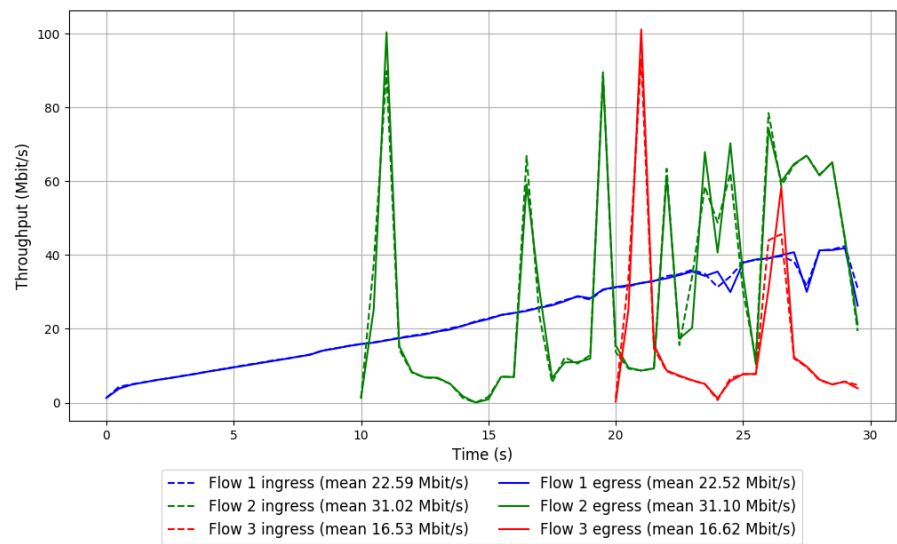
-- Flow 3:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 47.930 ms

Loss rate: 0.45%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

End at: 2017-11-21 21:17:54

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 49.558 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 49.586 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 49.527 ms

Loss rate: 0.57%

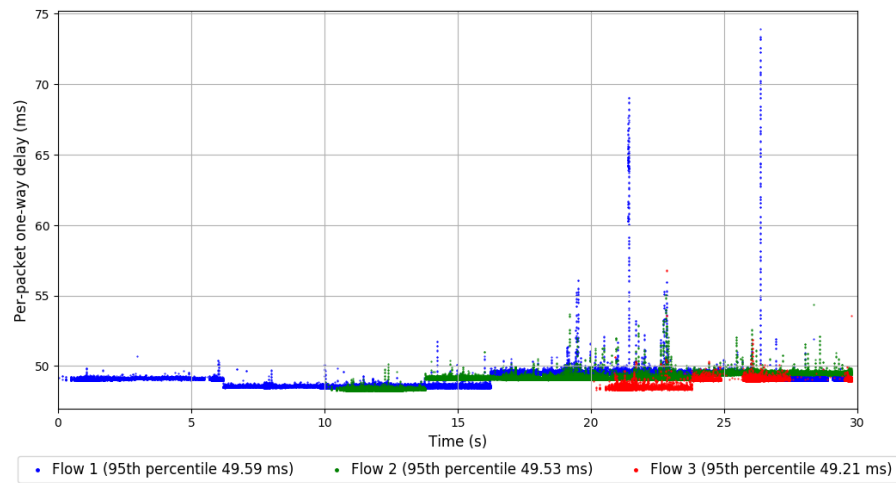
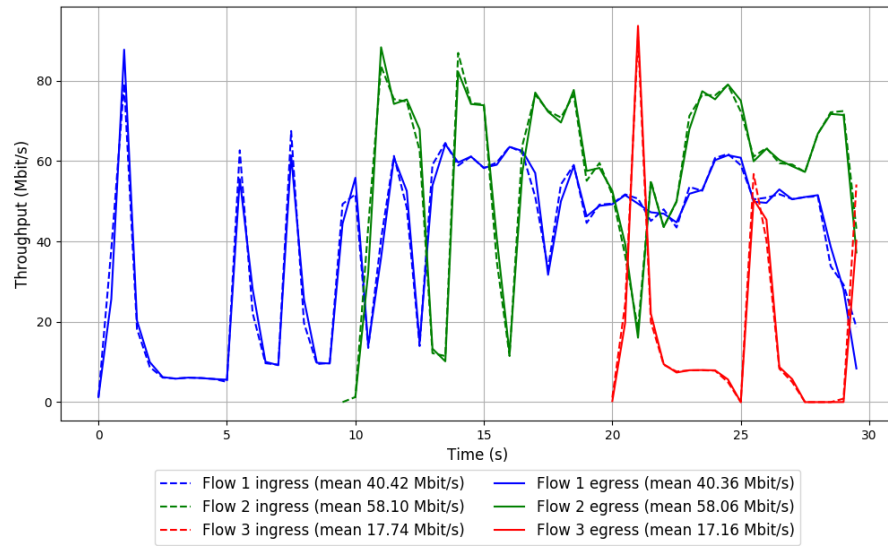
-- Flow 3:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 49.213 ms

Loss rate: 4.27%

Run 9: Report of QUIC Cubic — Data Link

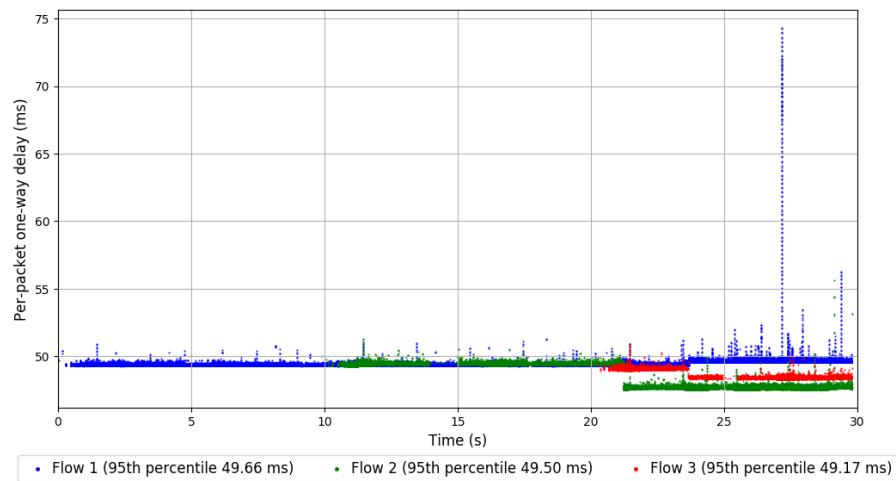
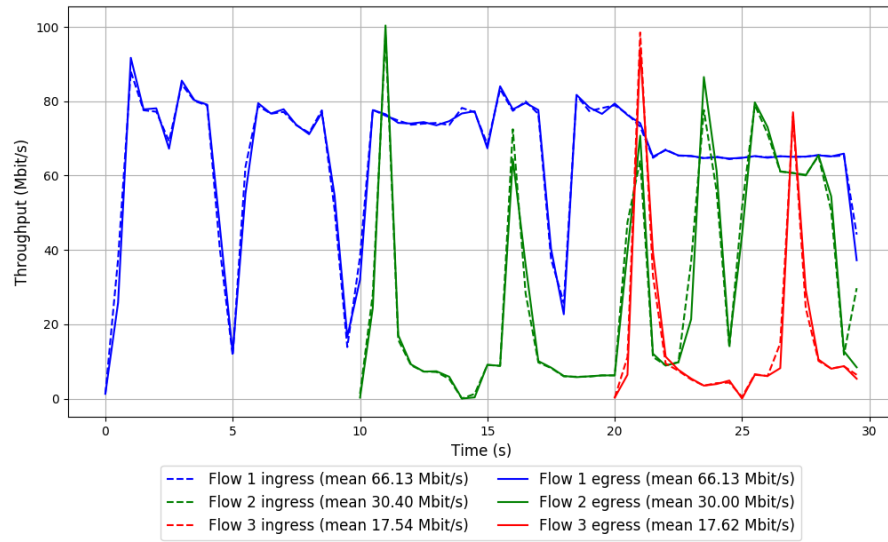


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 21:29:56
End at: 2017-11-21 21:30:26

# Below is generated by plot.py at 2017-11-22 00:16:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 49.635 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 66.13 Mbit/s
95th percentile per-packet one-way delay: 49.656 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 30.00 Mbit/s
95th percentile per-packet one-way delay: 49.500 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 17.62 Mbit/s
95th percentile per-packet one-way delay: 49.171 ms
Loss rate: 0.56%
```

Run 10: Report of QUIC Cubic — Data Link

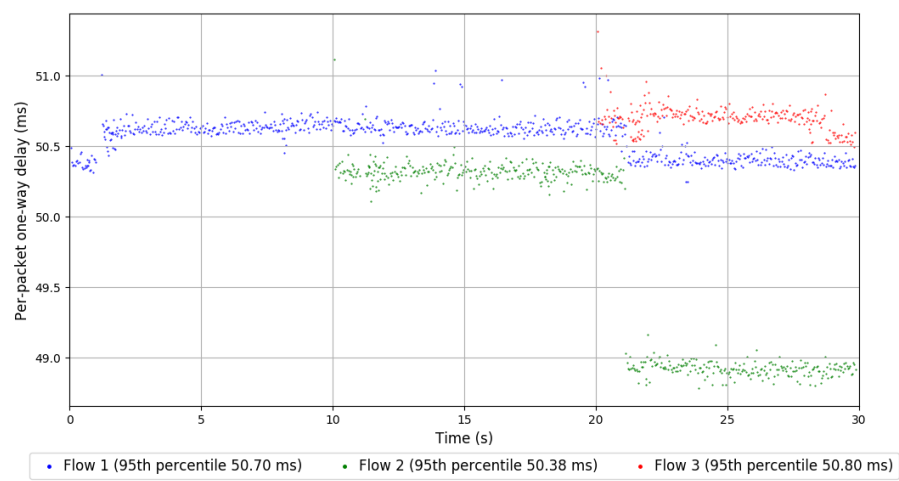
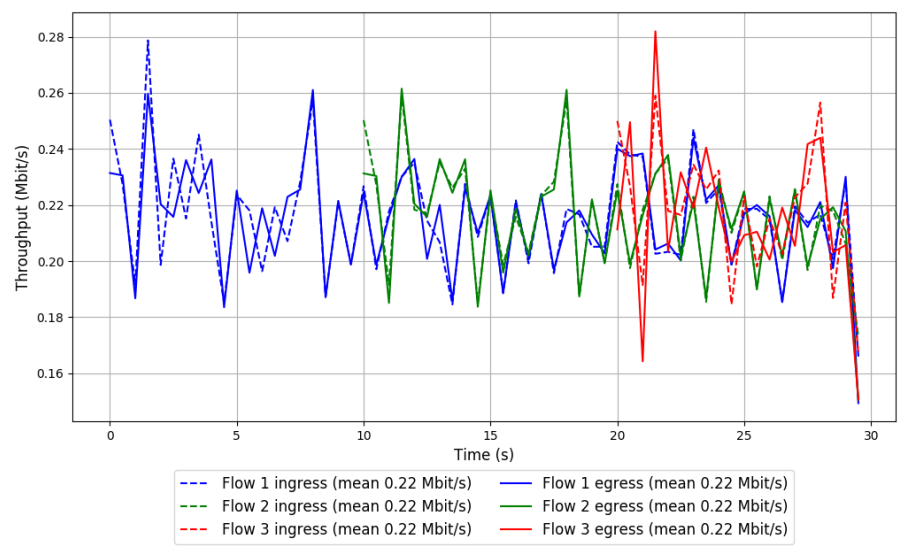


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 19:29:39
End at: 2017-11-21 19:30:09

# Below is generated by plot.py at 2017-11-22 00:16:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.741 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.698 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.385 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.803 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

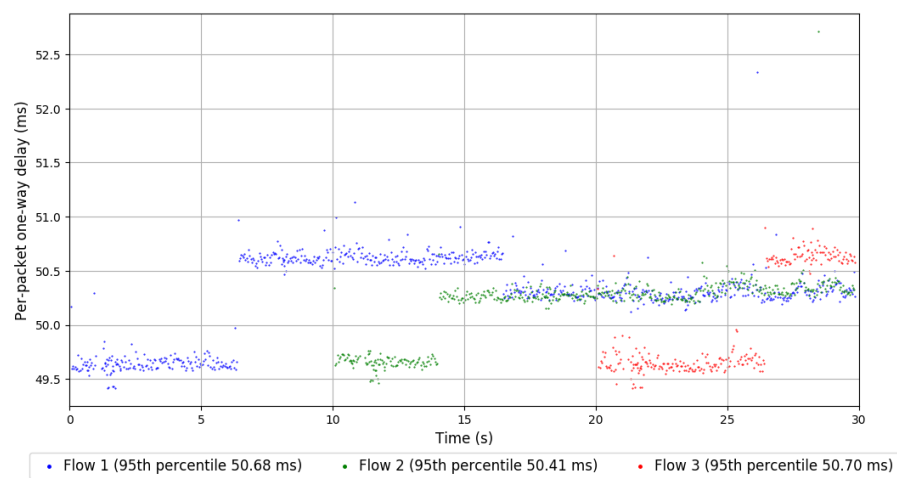
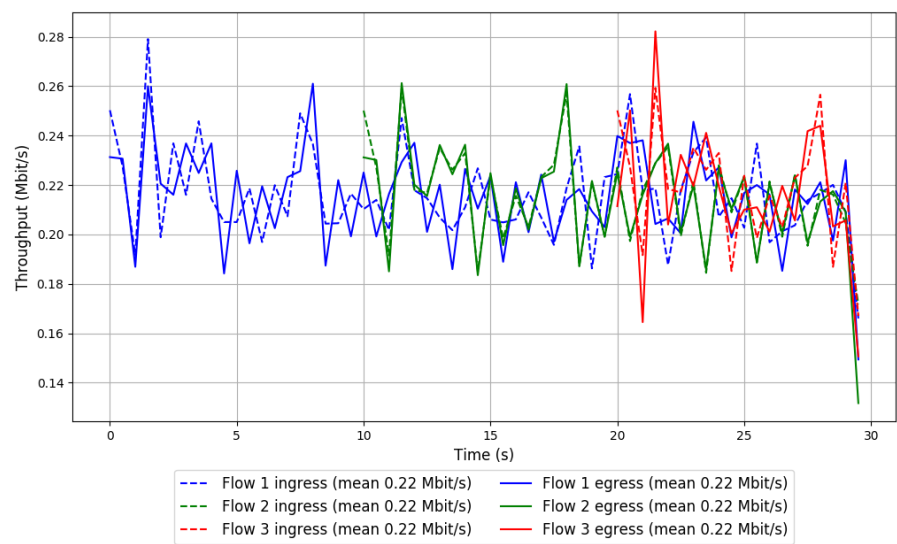


```
Run 2: Statistics of SCReAM

Start at: 2017-11-21 19:42:23
End at: 2017-11-21 19:42:54

# Below is generated by plot.py at 2017-11-22 00:16:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.669 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.405 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.705 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-21 19:55:03

End at: 2017-11-21 19:55:33

Below is generated by plot.py at 2017-11-22 00:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.433 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.43%

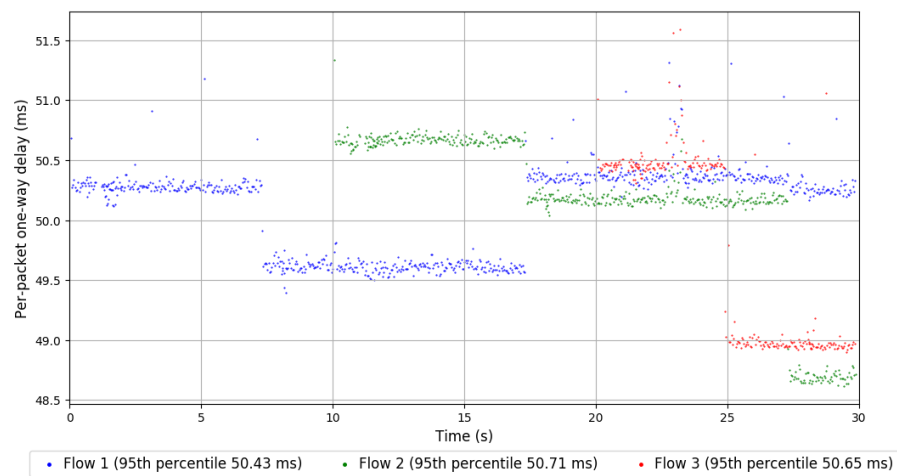
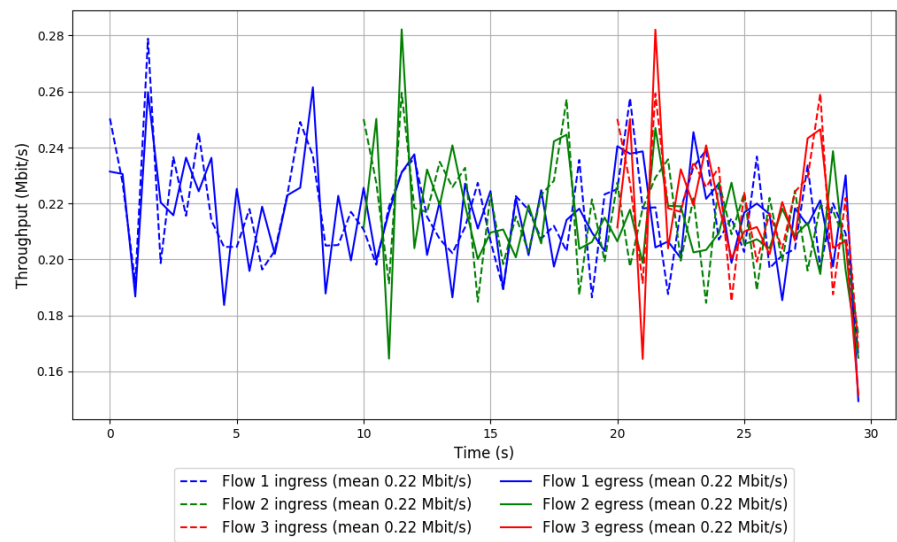
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.650 ms

Loss rate: 1.11%

Run 3: Report of SReAM — Data Link

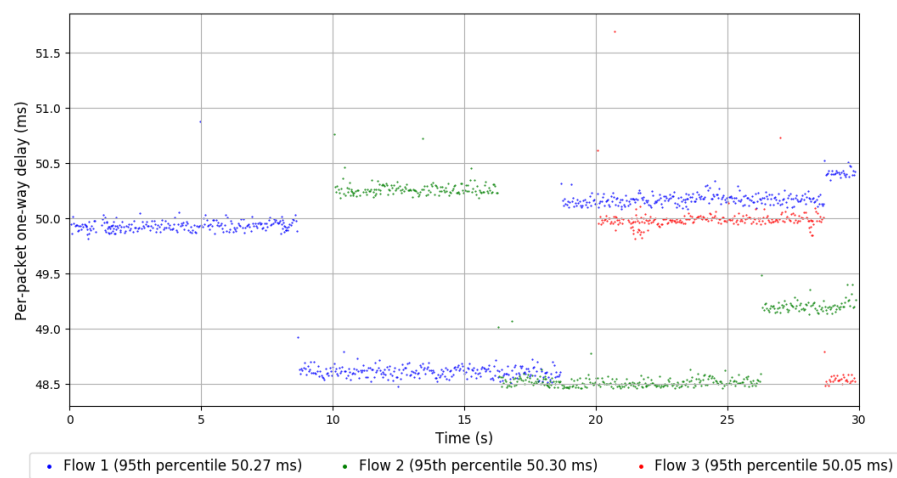
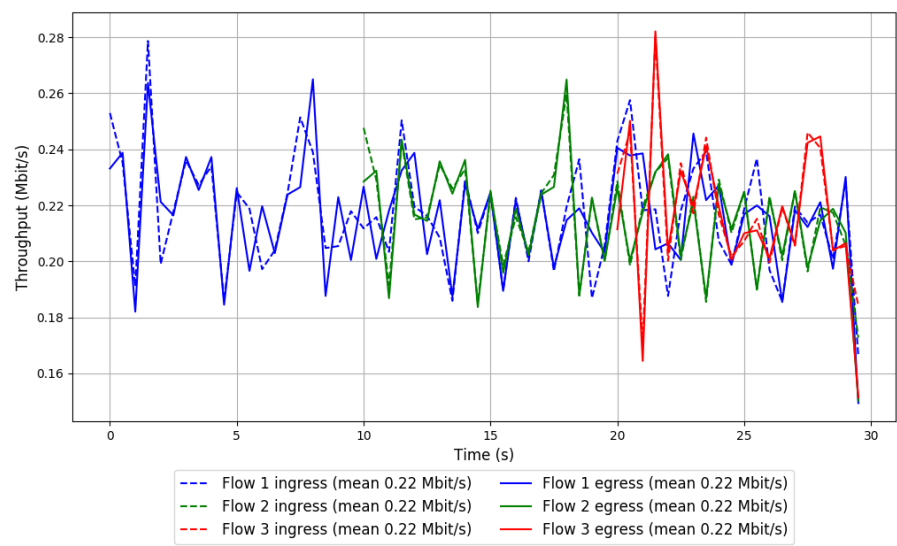


```
Run 4: Statistics of SReAM

Start at: 2017-11-21 20:07:31
End at: 2017-11-21 20:08:01

# Below is generated by plot.py at 2017-11-22 00:16:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.292 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.266 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.301 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.051 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

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

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 50.196 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.247 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.110 ms

Loss rate: 0.42%

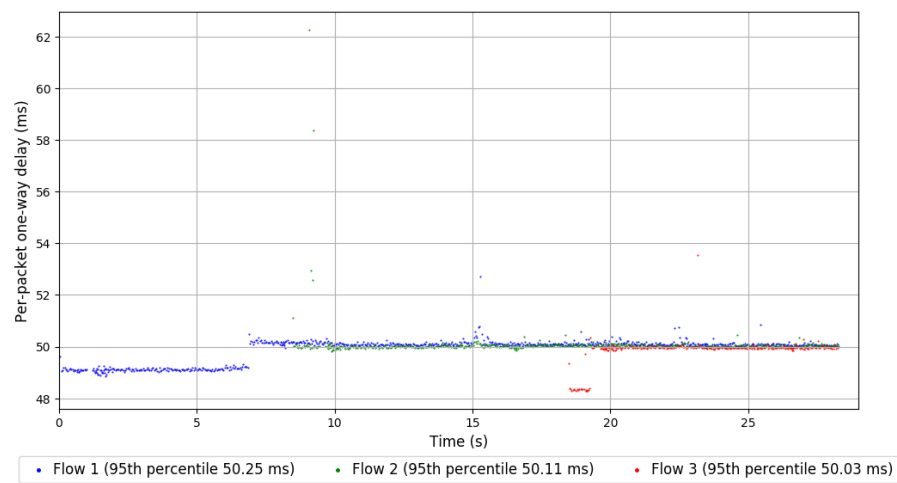
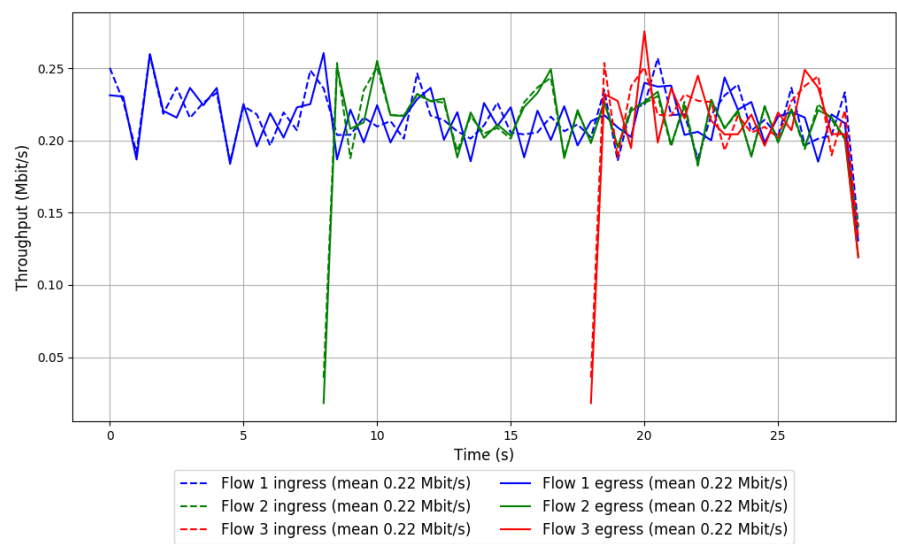
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.034 ms

Loss rate: 1.11%

Run 5: Report of SReAM — Data Link

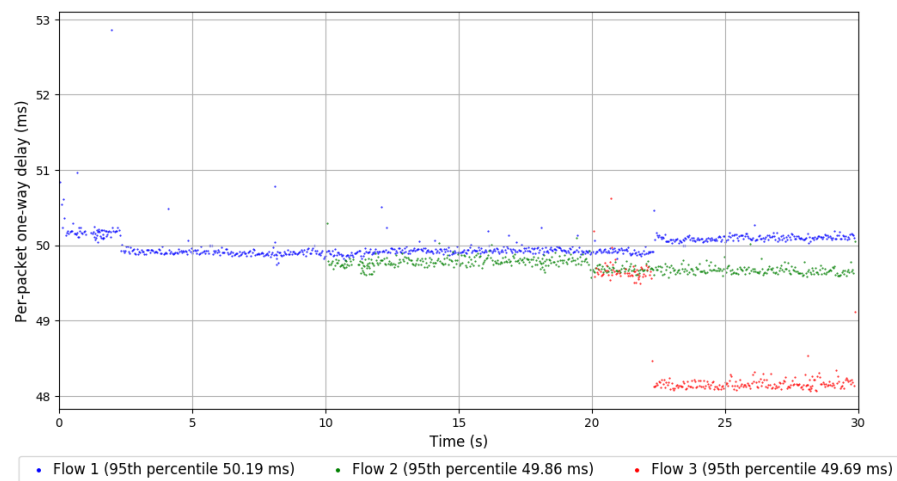
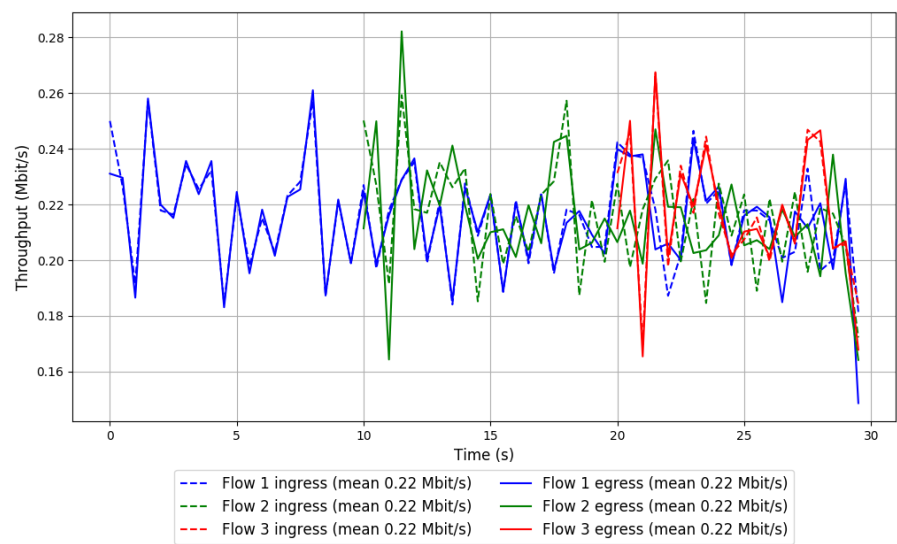


```
Run 6: Statistics of SCReAM

Start at: 2017-11-21 20:32:28
End at: 2017-11-21 20:32:58

# Below is generated by plot.py at 2017-11-22 00:16:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.142 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.186 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.860 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.692 ms
Loss rate: 0.74%
```

Run 6: Report of SReAM — Data Link

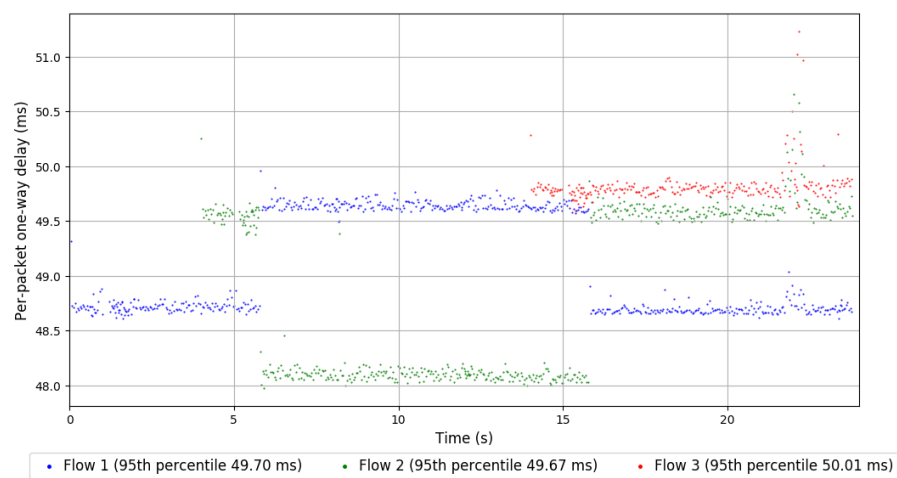
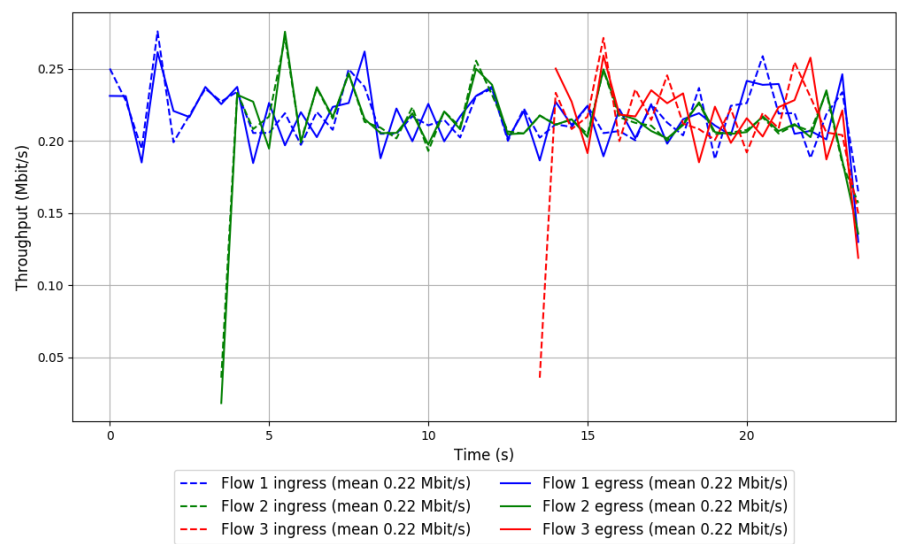


Run 7: Statistics of SReAM

Start at: 2017-11-21 20:44:58

End at: 2017-11-21 20:45:28

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-21 20:57:19

End at: 2017-11-21 20:57:49

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 49.786 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.814 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.494 ms

Loss rate: 0.42%

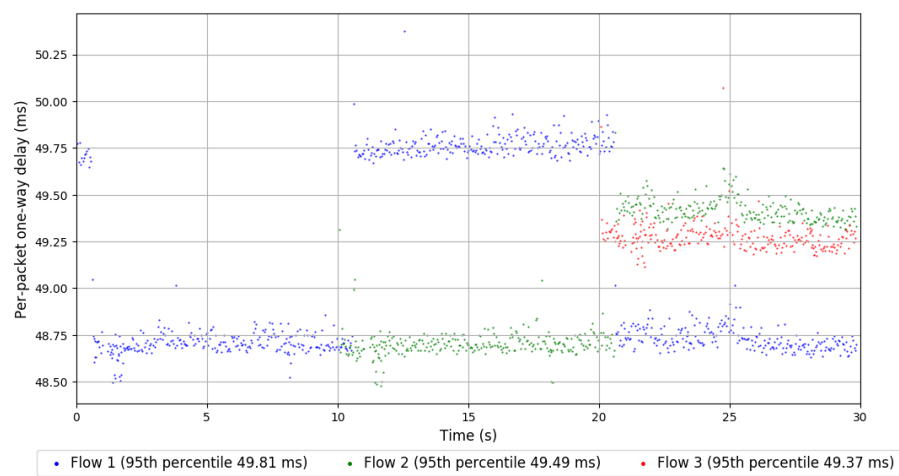
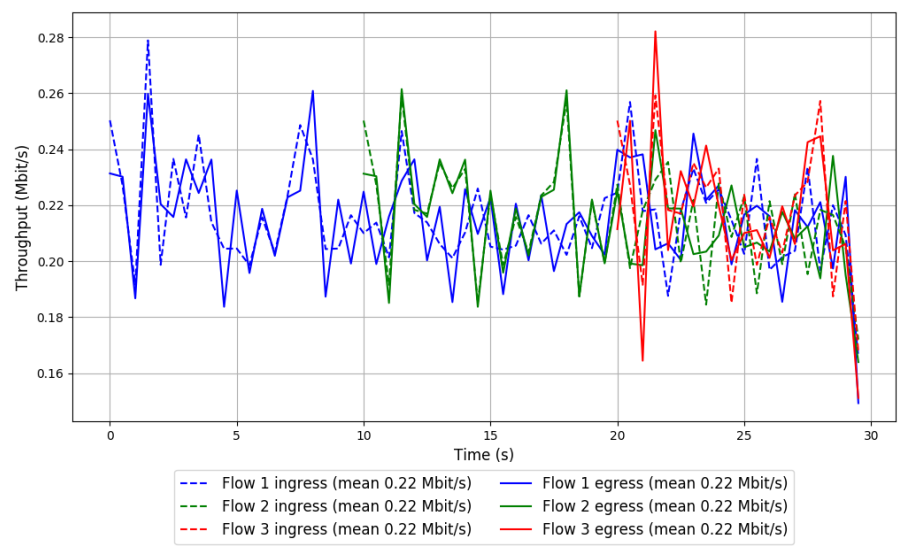
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.370 ms

Loss rate: 1.11%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-21 21:09:51

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 49.667 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.680 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.478 ms

Loss rate: 0.42%

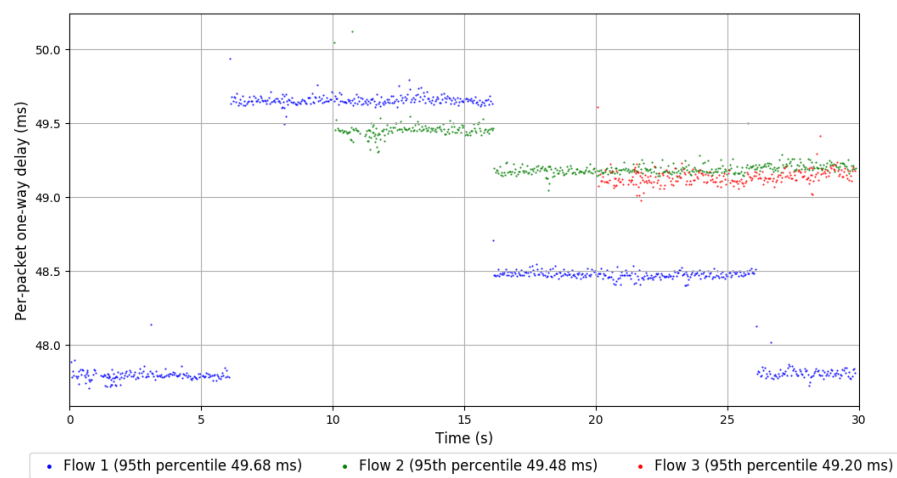
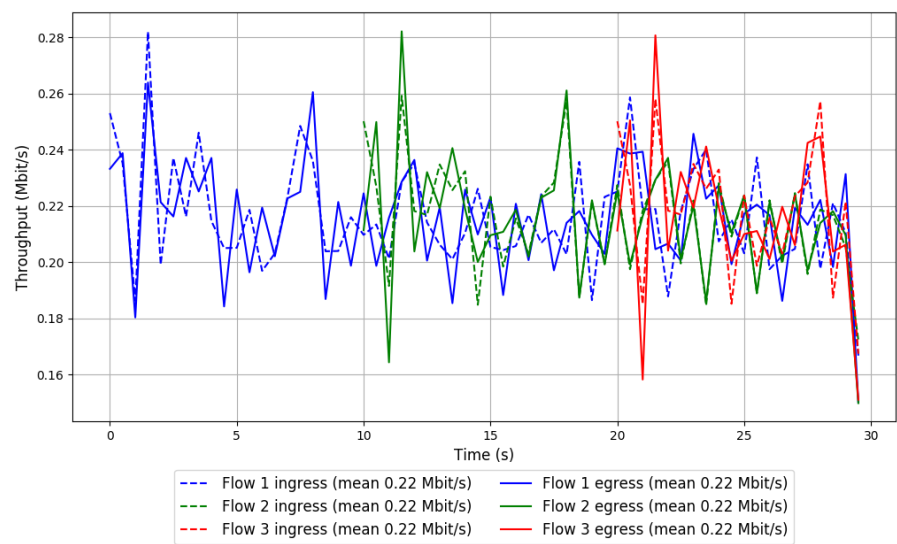
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.203 ms

Loss rate: 1.11%

Run 9: Report of SReAM — Data Link

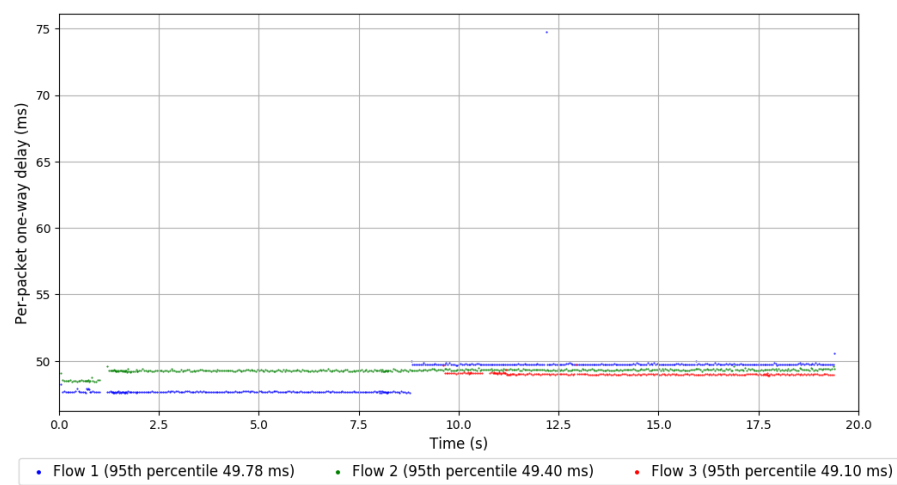
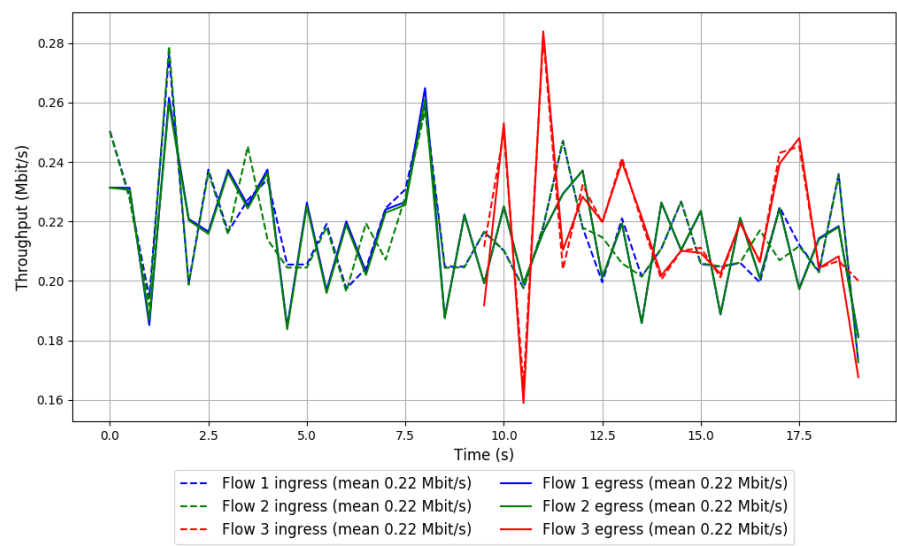


Run 10: Statistics of SCReAM

Start at: 2017-11-21 21:22:18

End at: 2017-11-21 21:22:48

Run 10: Report of SReAM — Data Link

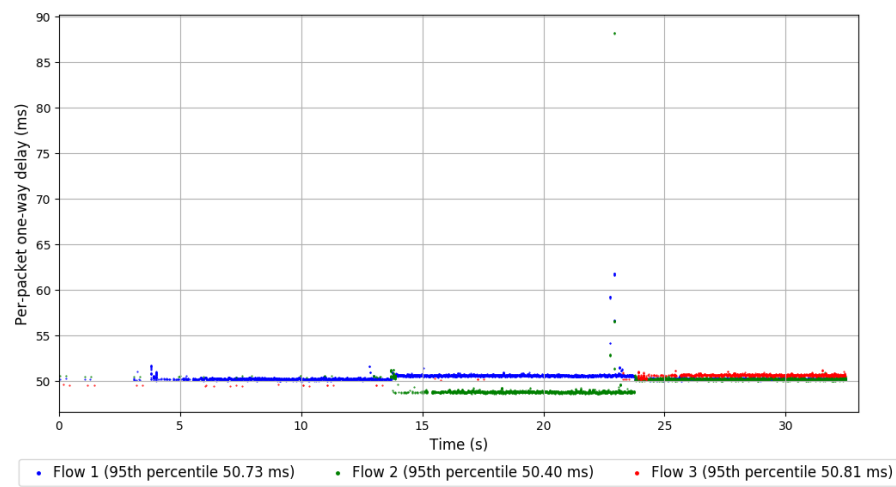
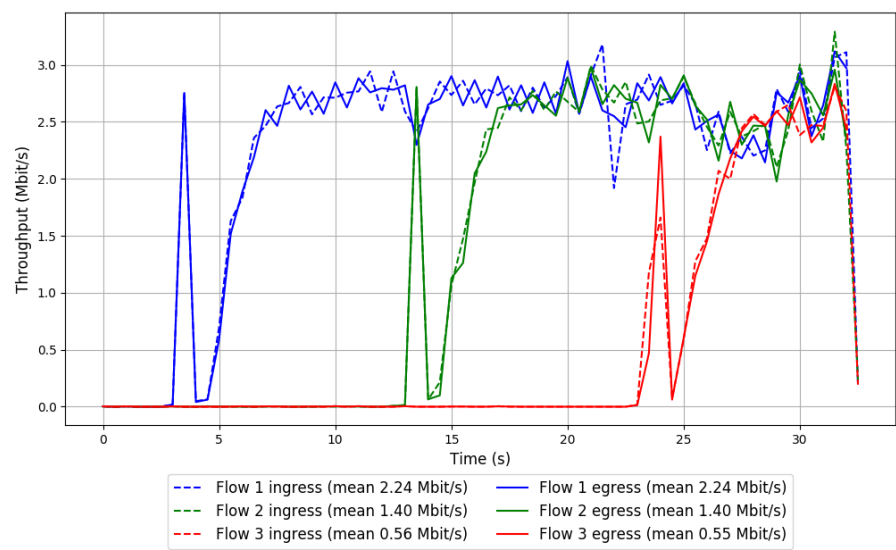


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 19:36:26
End at: 2017-11-21 19:36:56

# Below is generated by plot.py at 2017-11-22 00:16:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 50.741 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 50.728 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 50.401 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 50.815 ms
Loss rate: 1.60%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2017-11-21 19:49:41

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.40 Mbit/s

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

Loss rate: 0.25%

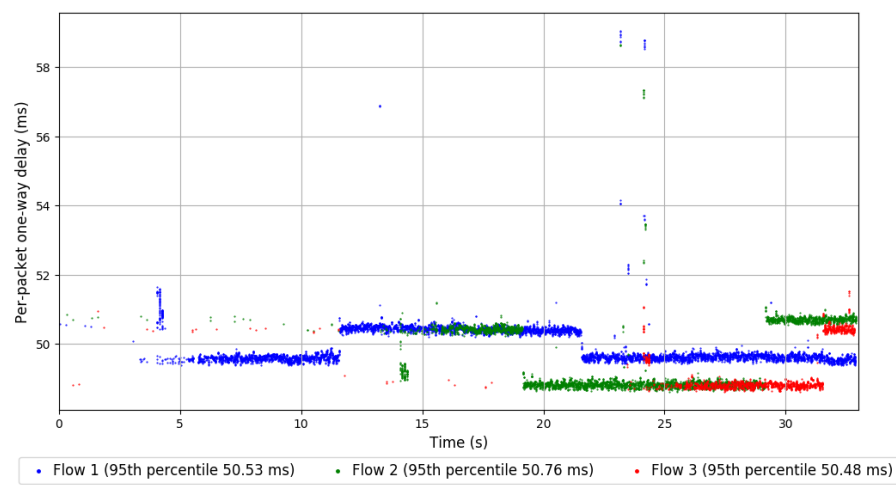
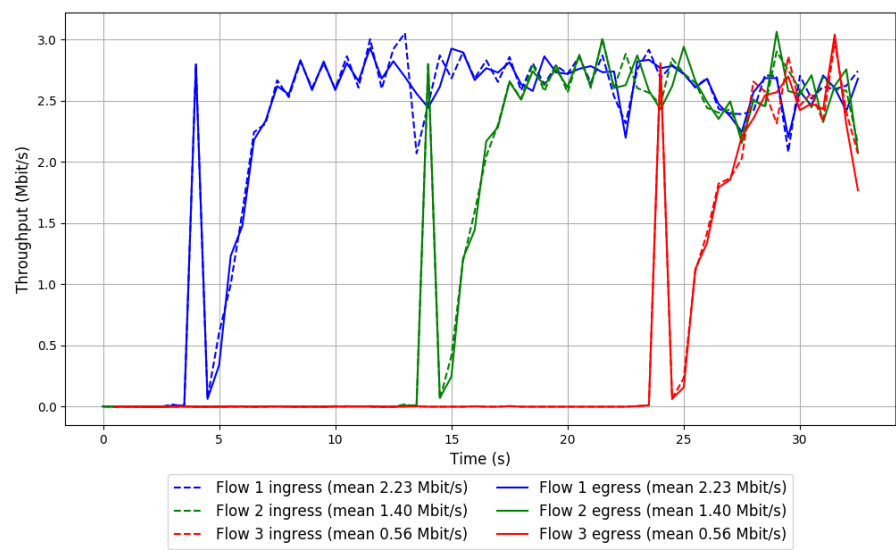
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.478 ms

Loss rate: 1.64%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 20:01:50

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

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

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 50.725 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 50.448 ms

Loss rate: 0.62%

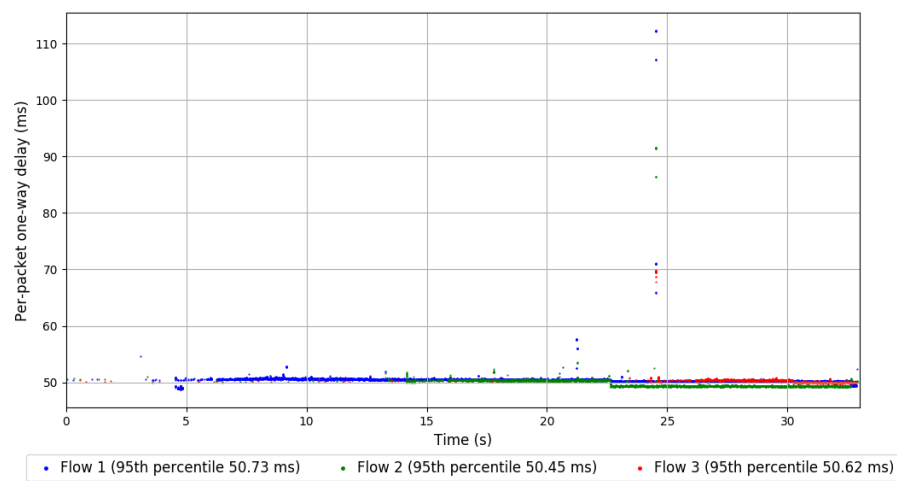
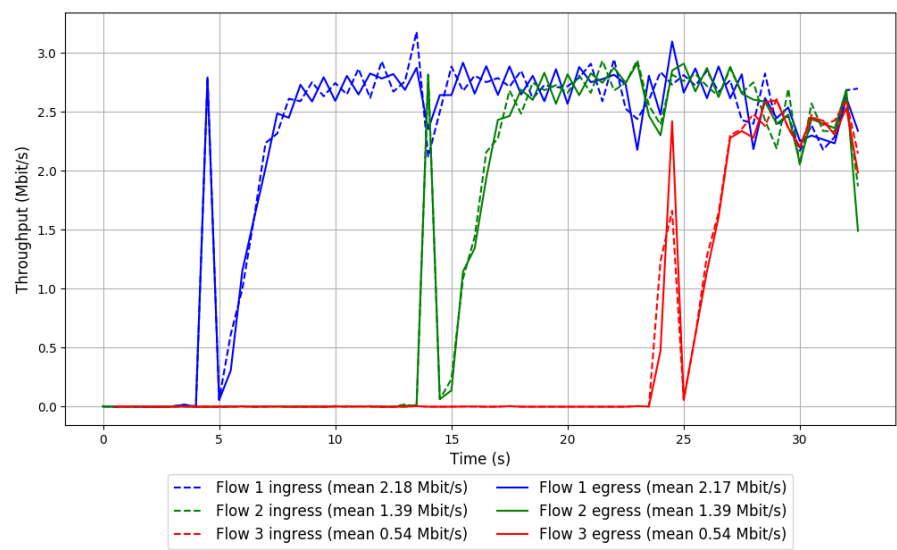
-- Flow 3:

Average throughput: 0.54 Mbit/s

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

Loss rate: 1.54%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 20:14:25

End at: 2017-11-21 20:14:55

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 50.233 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.190 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.258 ms

Loss rate: 0.75%

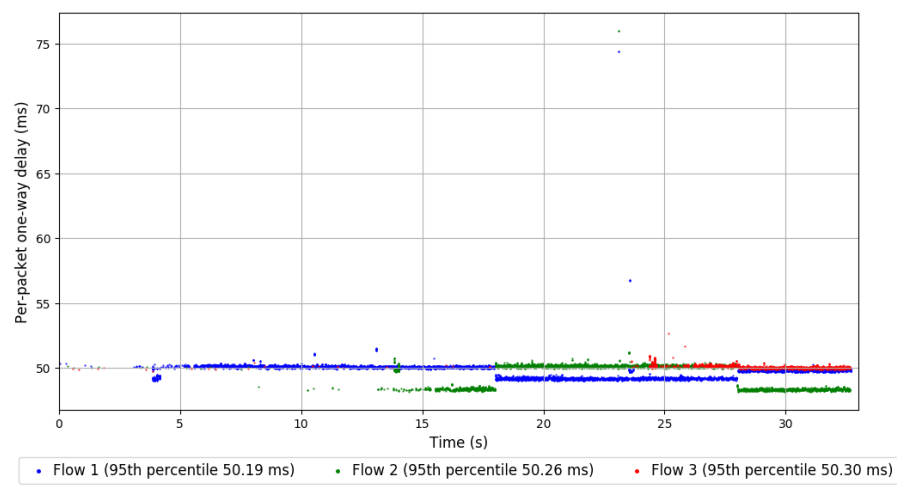
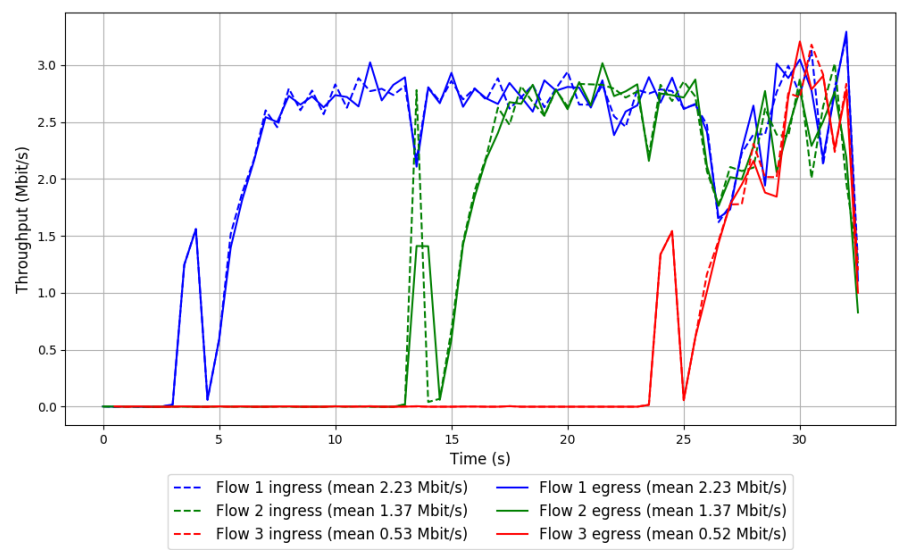
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.300 ms

Loss rate: 1.86%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 20:26:55

End at: 2017-11-21 20:27:25

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 50.573 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.622 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 50.171 ms

Loss rate: 0.54%

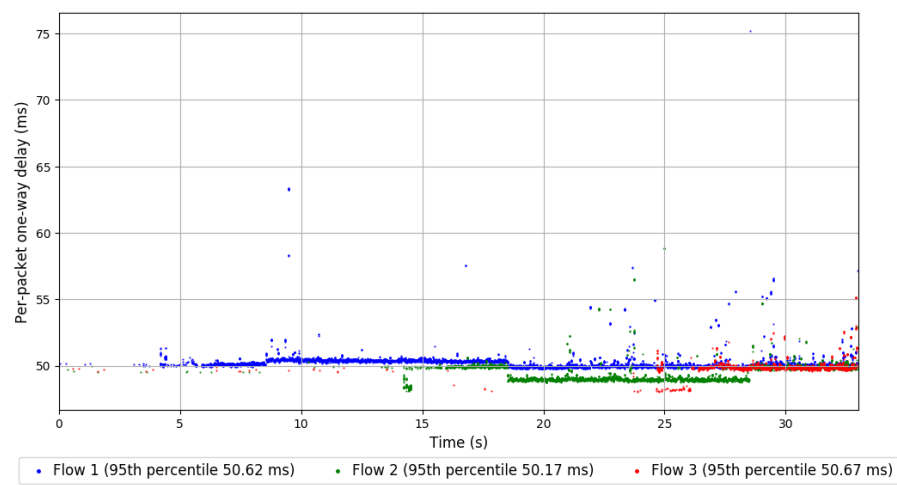
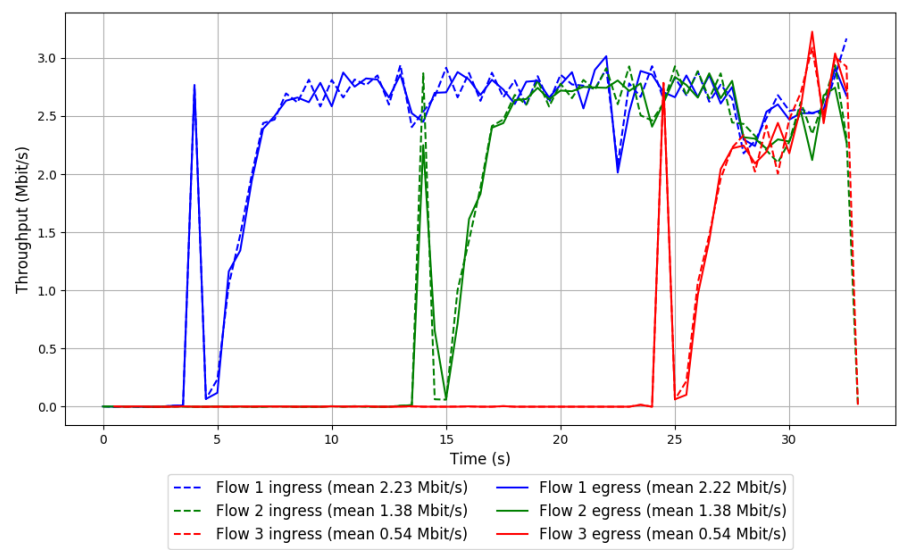
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.670 ms

Loss rate: 1.45%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 20:39:19

End at: 2017-11-21 20:39:49

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 49.916 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 49.936 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 49.856 ms

Loss rate: 0.52%

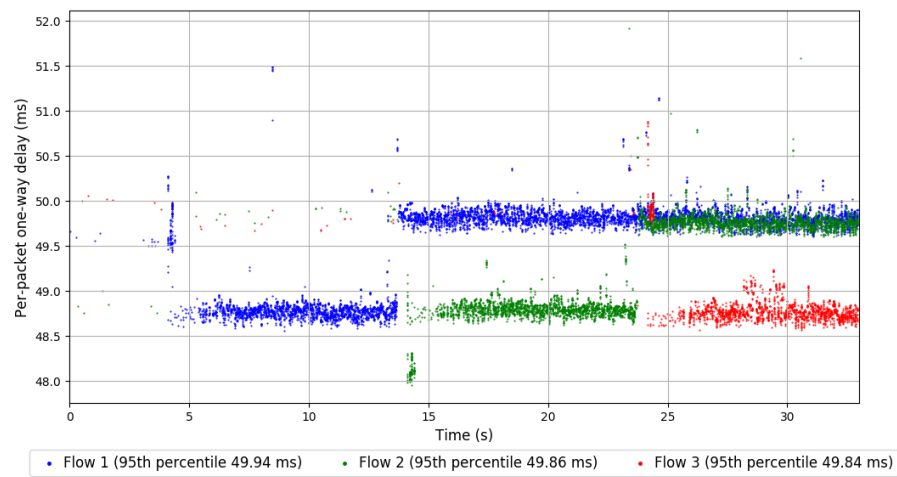
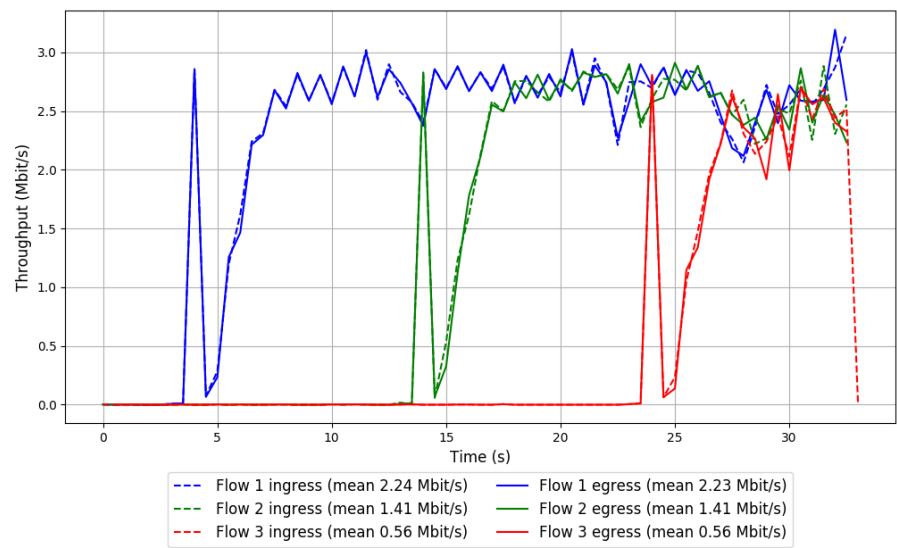
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 49.844 ms

Loss rate: 1.44%

Run 6: Report of WebRTC media — Data Link

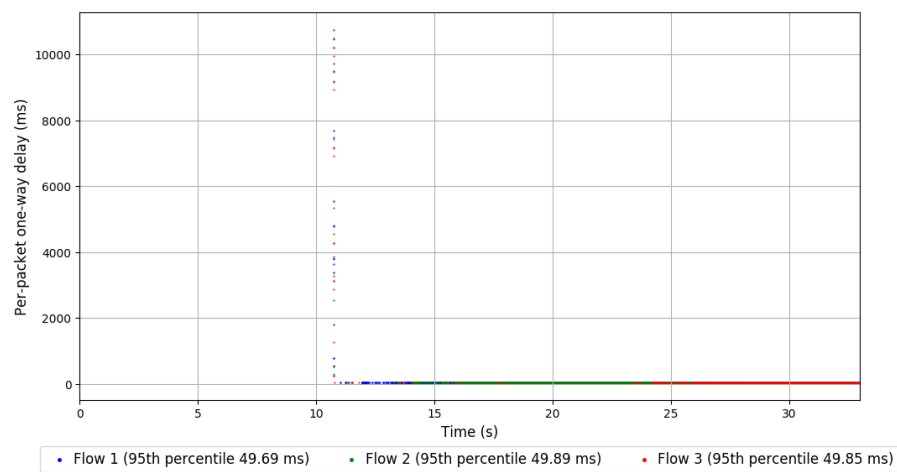
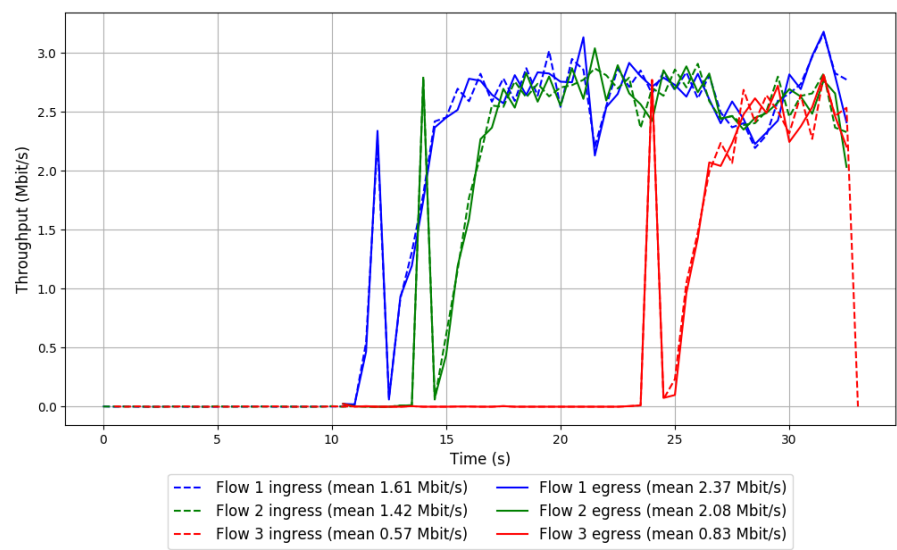


Run 7: Statistics of WebRTC media

Start at: 2017-11-21 20:51:43

End at: 2017-11-21 20:52:13

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 21:04:07

End at: 2017-11-21 21:04:37

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 49.915 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 49.628 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 49.967 ms

Loss rate: 0.51%

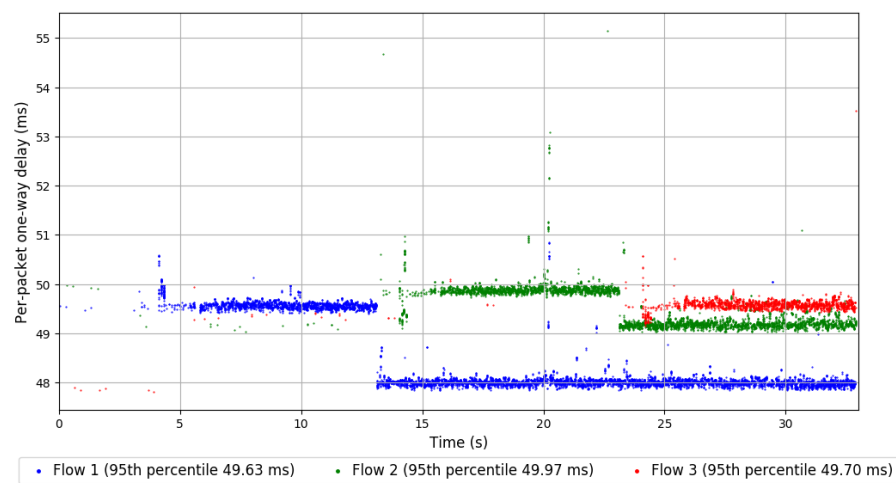
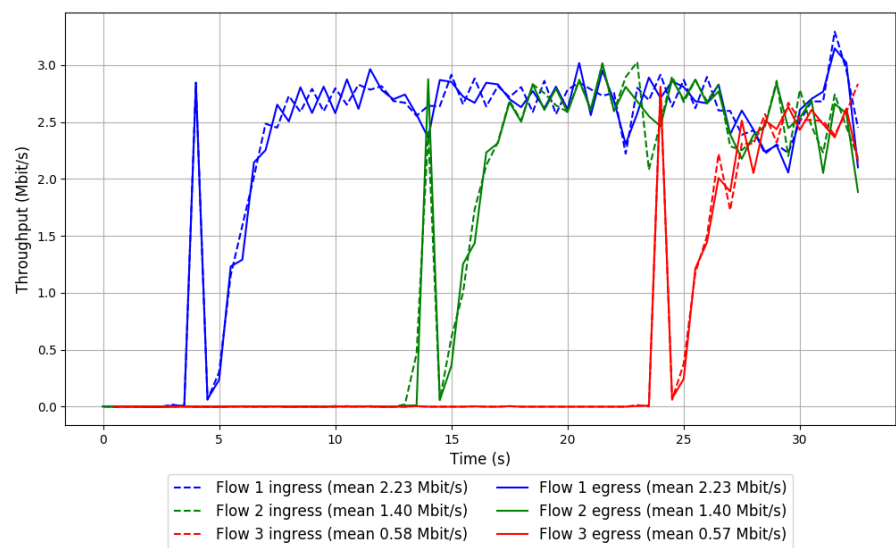
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 49.701 ms

Loss rate: 2.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 21:16:44

End at: 2017-11-21 21:17:14

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 49.957 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 49.747 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.52%

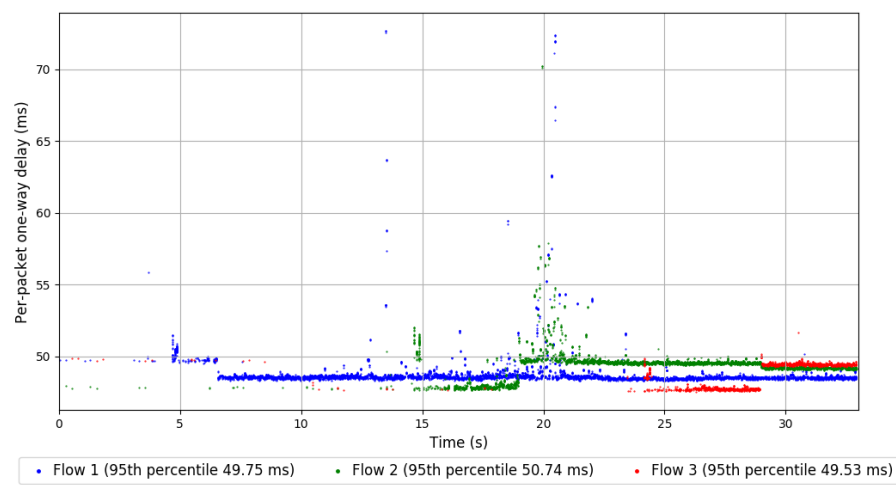
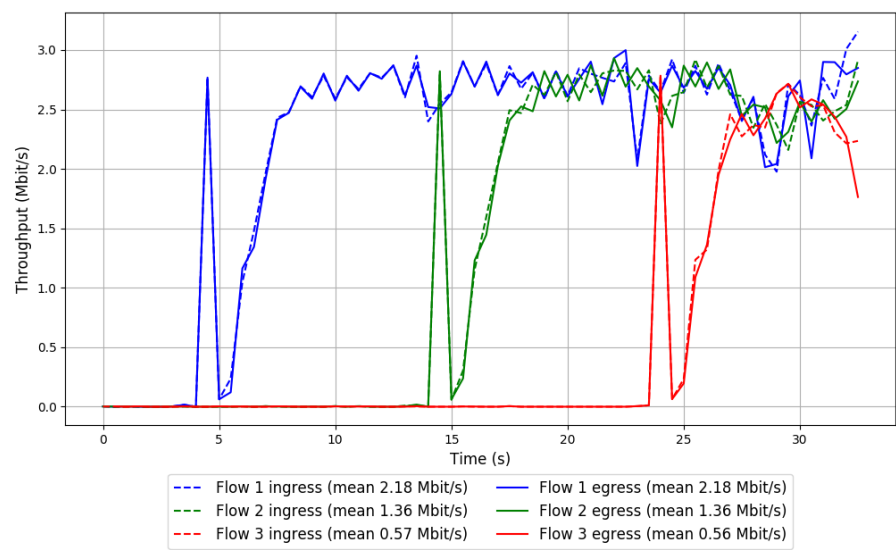
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 49.529 ms

Loss rate: 1.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 21:29:17

End at: 2017-11-21 21:29:47

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 49.316 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 49.235 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 49.314 ms

Loss rate: 0.58%

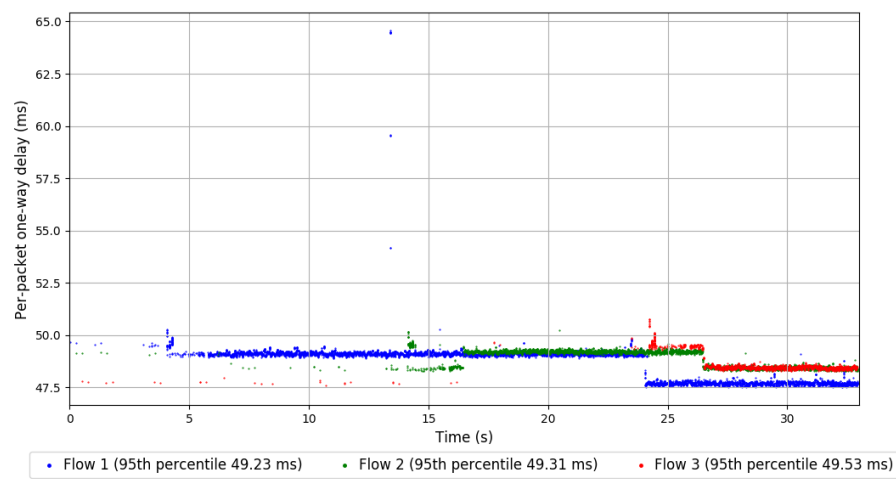
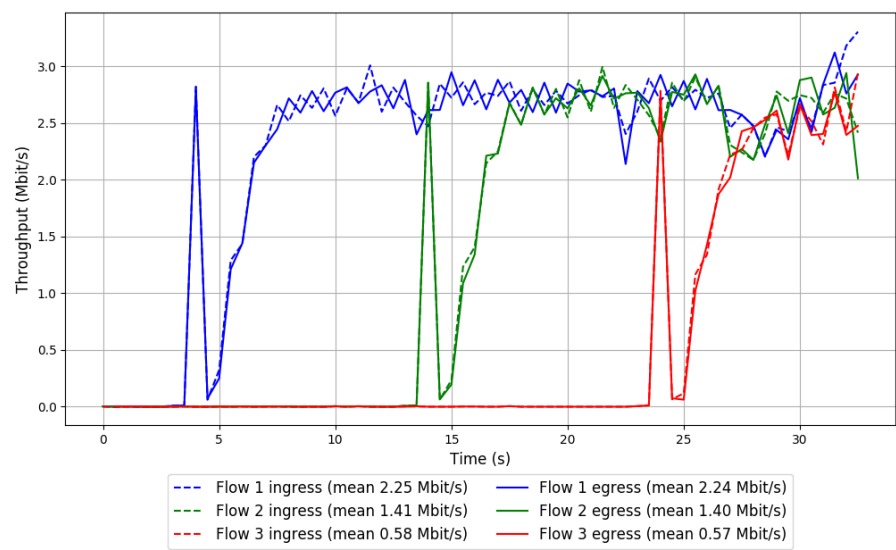
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 49.534 ms

Loss rate: 2.08%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-21 19:33:00

End at: 2017-11-21 19:33:30

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 51.618 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.514 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.674 ms

Loss rate: 0.63%

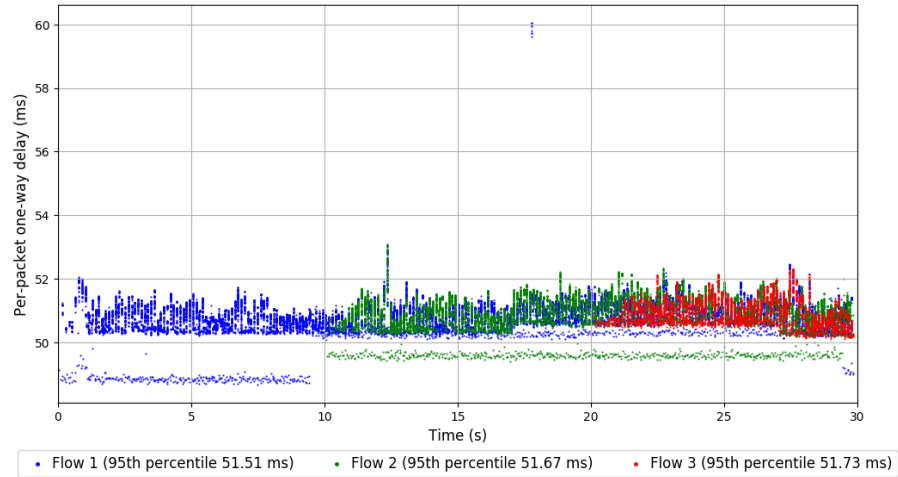
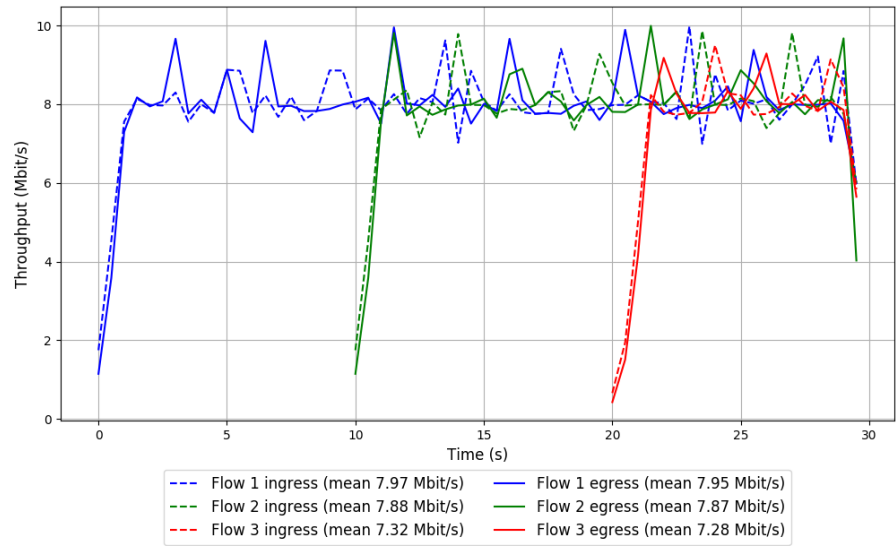
-- Flow 3:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 51.731 ms

Loss rate: 1.28%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

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

End at: 2017-11-21 19:46:10

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.06 Mbit/s

95th percentile per-packet one-way delay: 51.780 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 51.836 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.535 ms

Loss rate: 0.66%

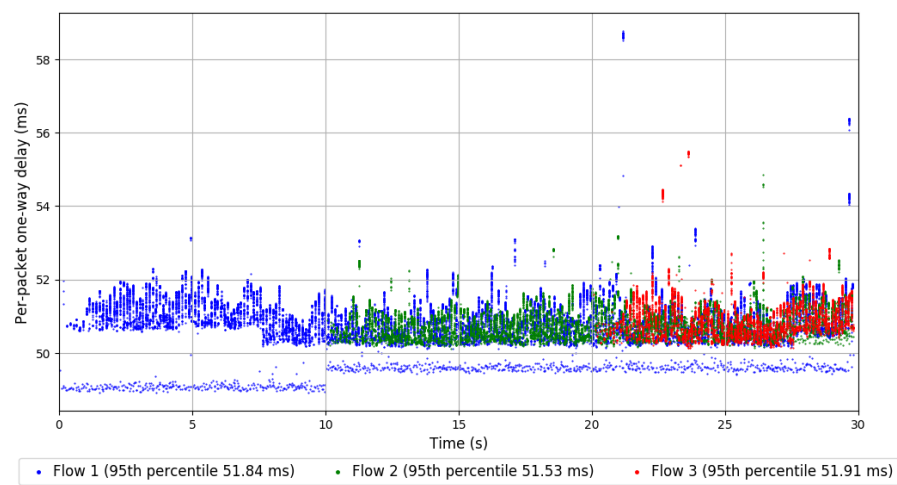
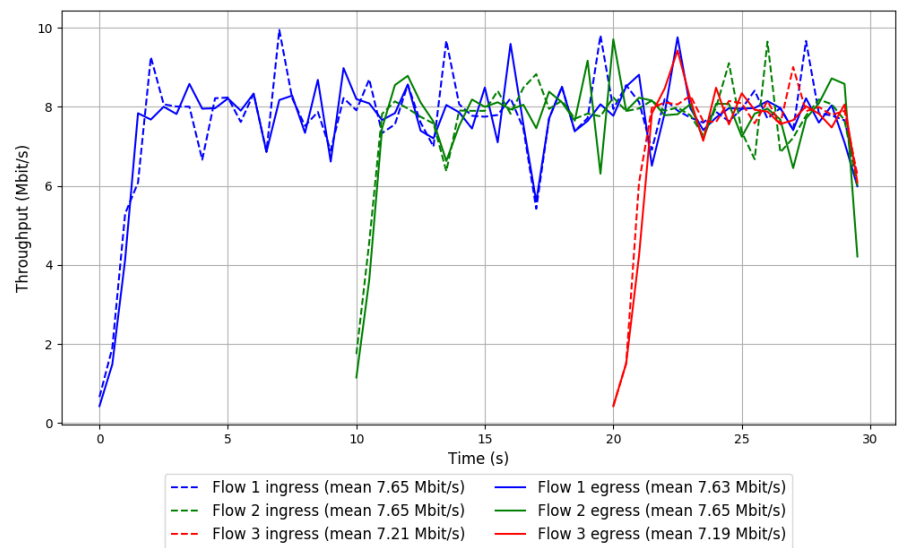
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 51.913 ms

Loss rate: 1.40%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 19:58:22

End at: 2017-11-21 19:58:52

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 51.391 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.396 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.407 ms

Loss rate: 0.12%

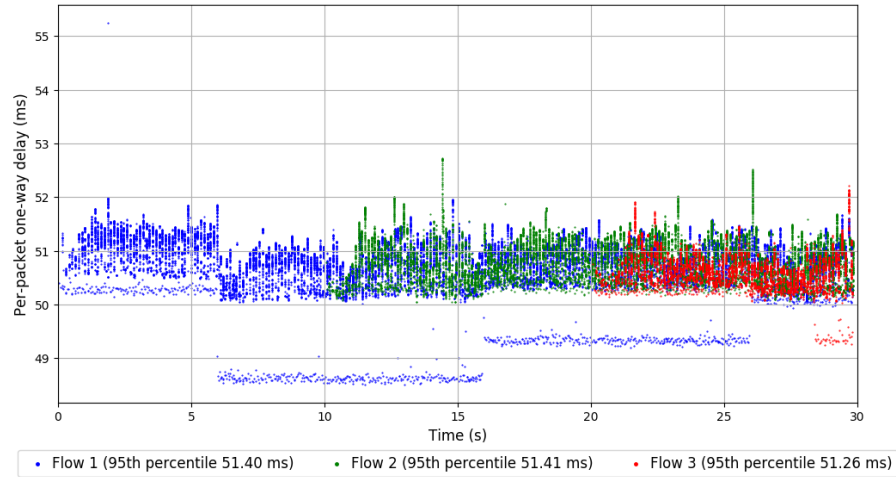
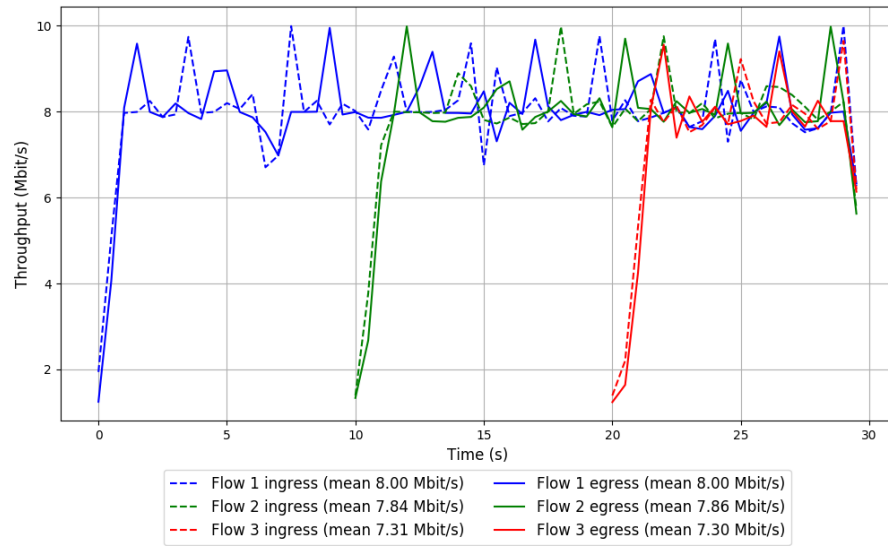
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 51.263 ms

Loss rate: 1.33%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 20:10:49

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 50.927 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 7.99 Mbit/s

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

Loss rate: 0.48%

-- Flow 2:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.009 ms

Loss rate: 0.68%

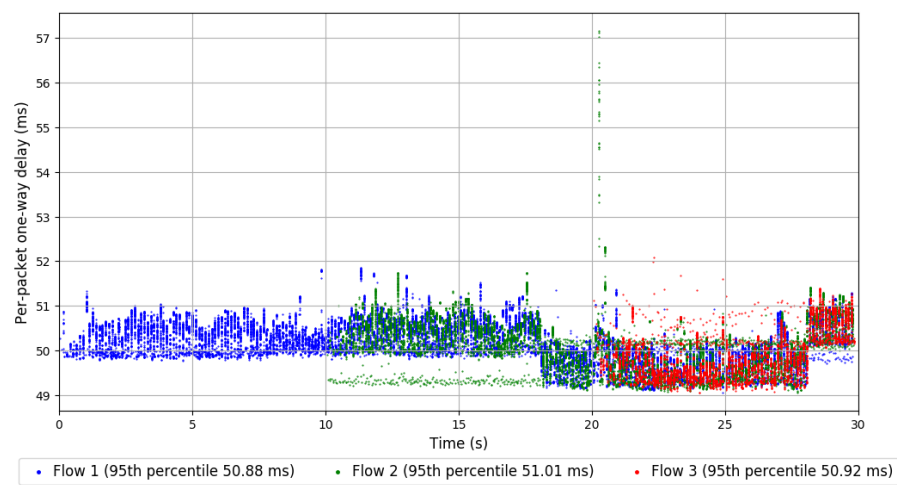
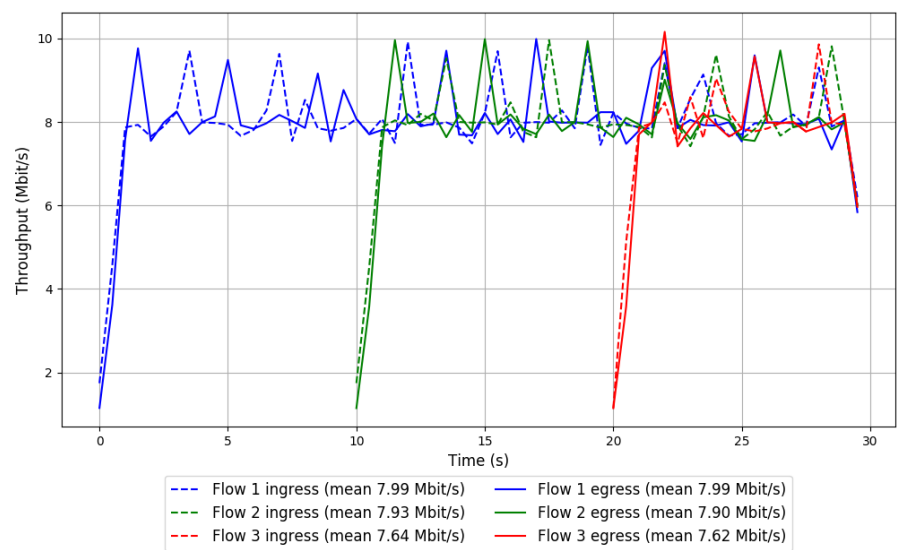
-- Flow 3:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 50.917 ms

Loss rate: 1.18%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 20:23:26

End at: 2017-11-21 20:23:56

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 51.102 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.147 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 51.143 ms

Loss rate: 0.64%

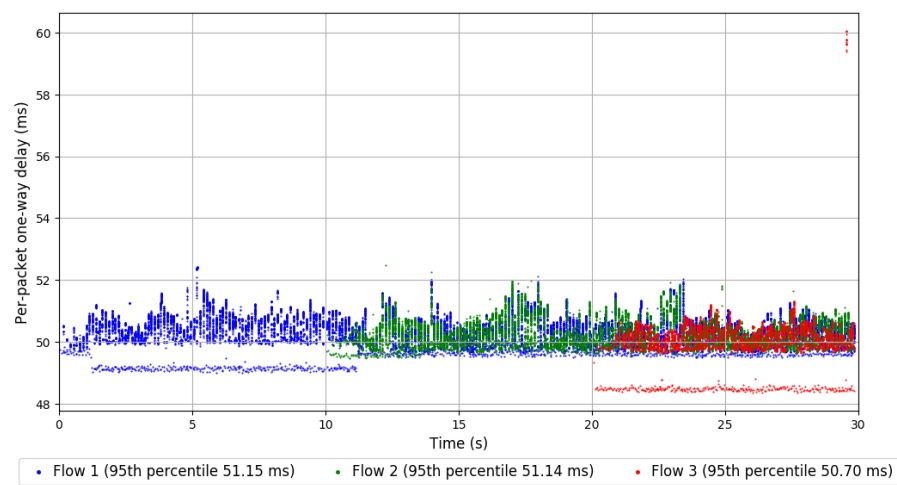
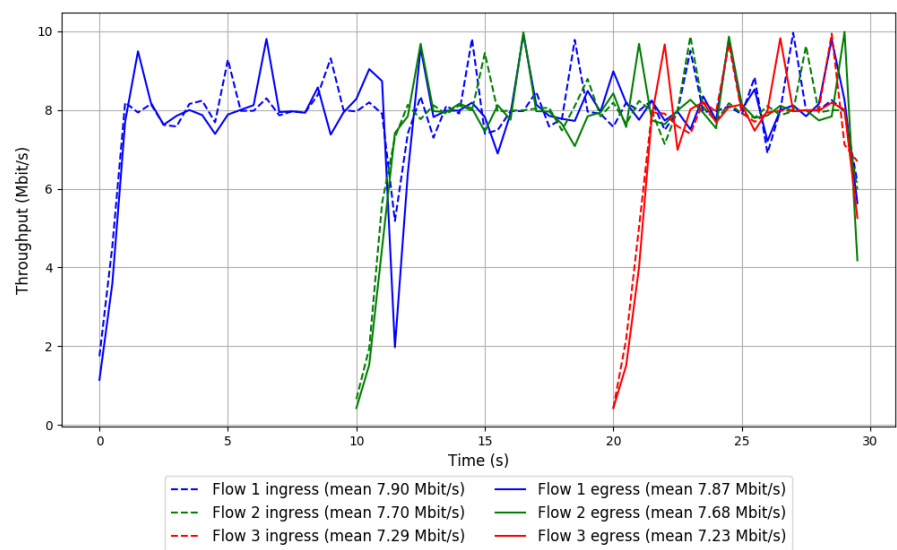
-- Flow 3:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 50.702 ms

Loss rate: 1.62%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 20:35:44

End at: 2017-11-21 20:36:14

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 50.732 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 7.95 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.66%

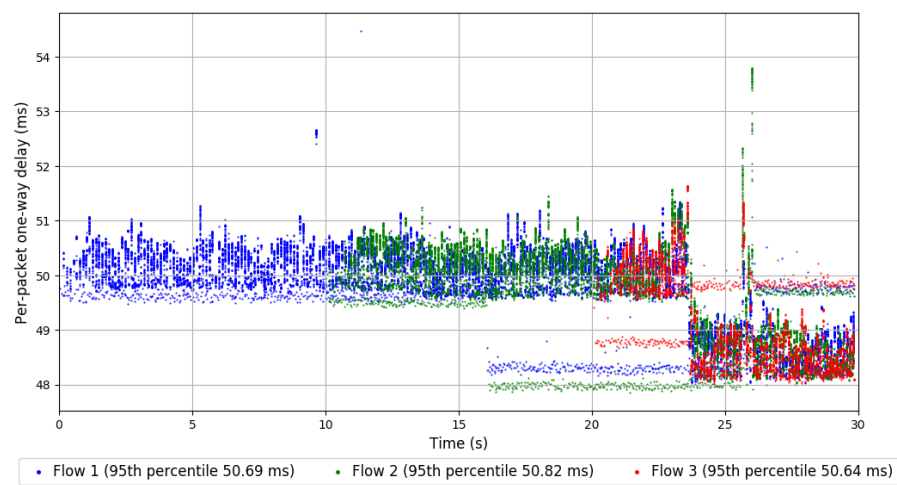
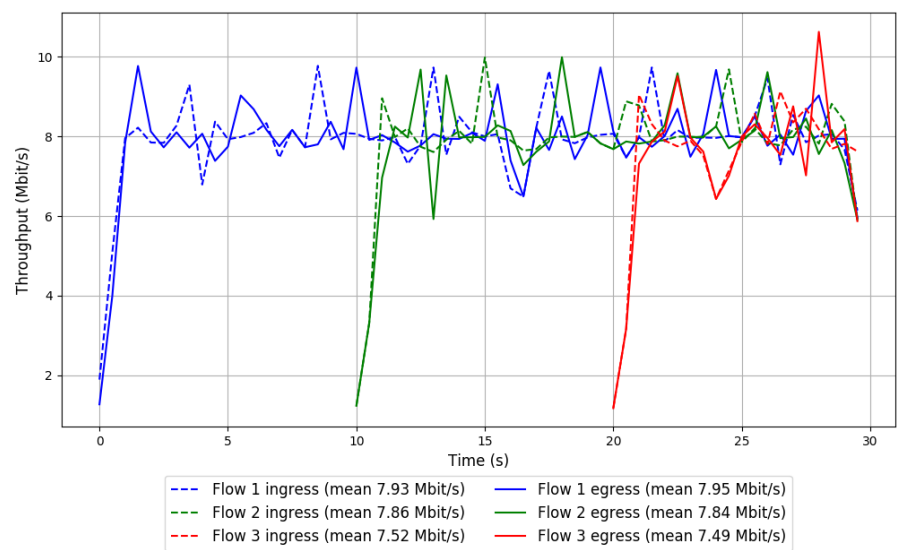
-- Flow 3:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 50.643 ms

Loss rate: 1.19%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 20:48:14

End at: 2017-11-21 20:48:44

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 51.014 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.109 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 50.990 ms

Loss rate: 0.54%

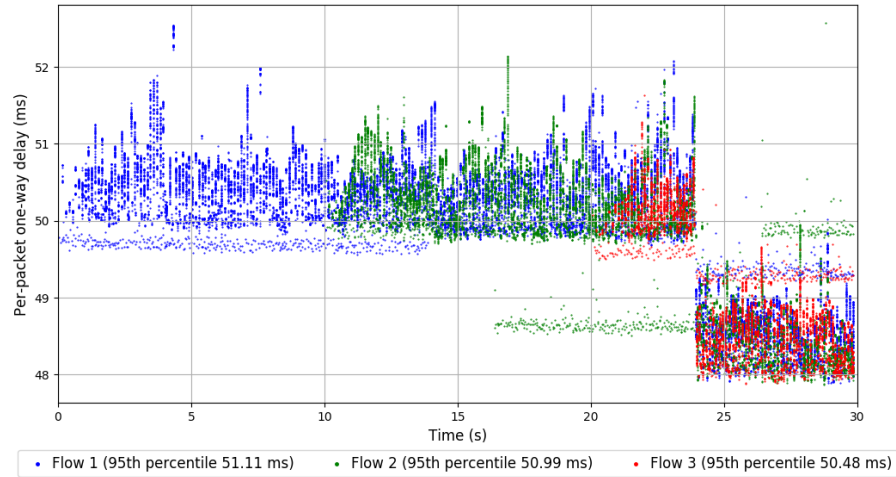
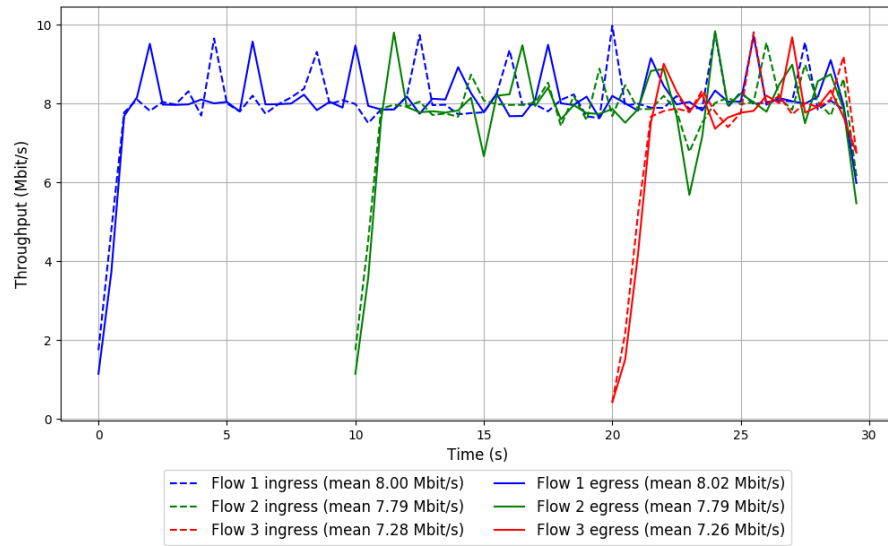
-- Flow 3:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 50.481 ms

Loss rate: 1.42%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 21:00:36

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 50.795 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 50.716 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.19%

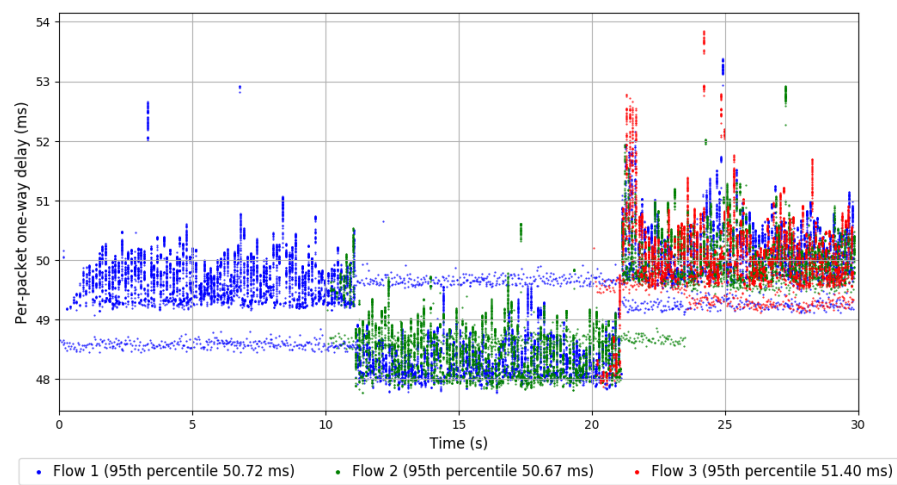
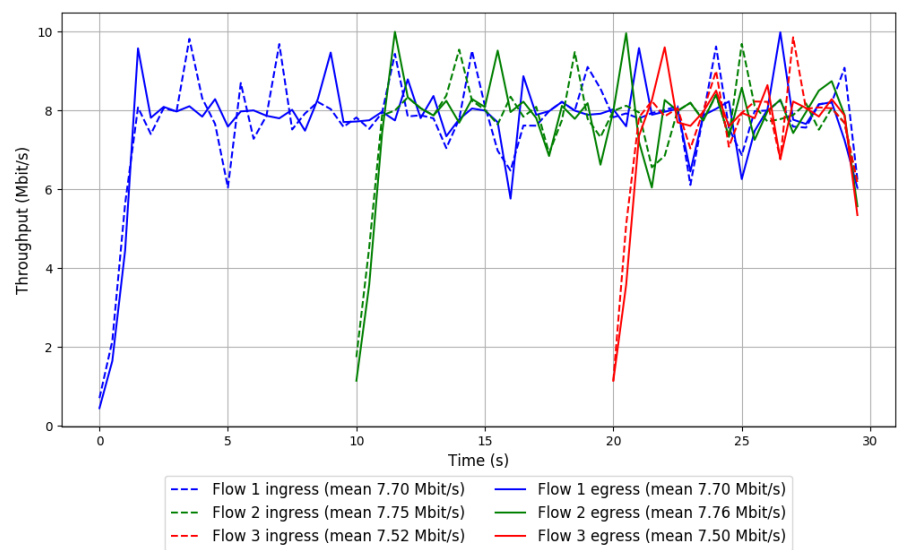
-- Flow 3:

Average throughput: 7.50 Mbit/s

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

Loss rate: 1.51%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

End at: 2017-11-21 21:13:41

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 50.422 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 7.92 Mbit/s

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

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 50.524 ms

Loss rate: 0.65%

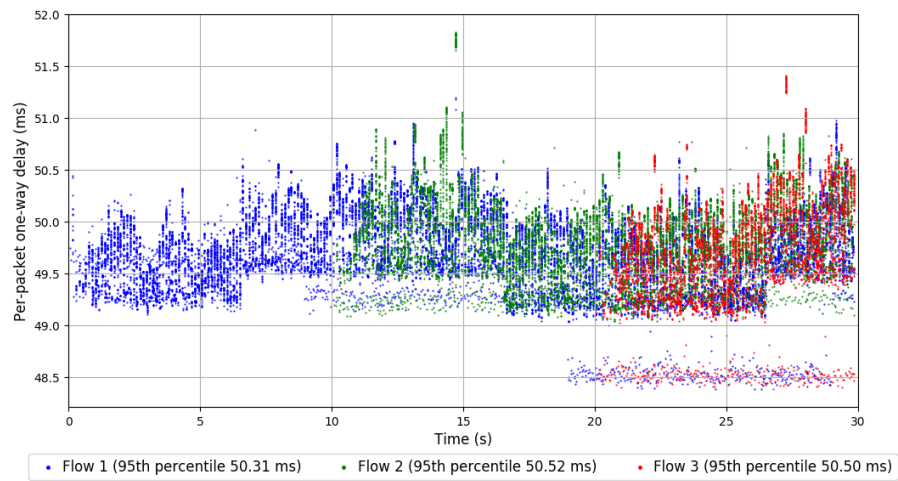
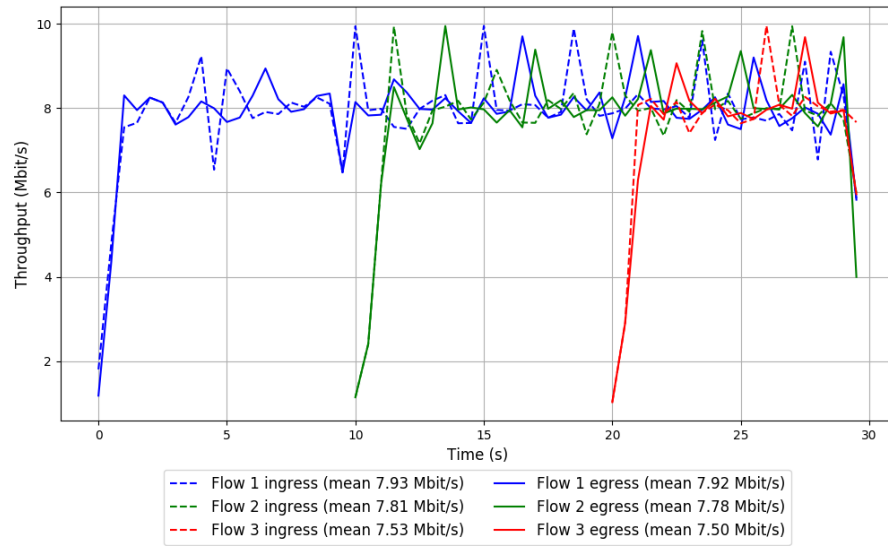
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 50.502 ms

Loss rate: 1.51%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 21:25:36

End at: 2017-11-21 21:26:06

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 7.90 Mbit/s

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

Loss rate: 0.12%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.65%

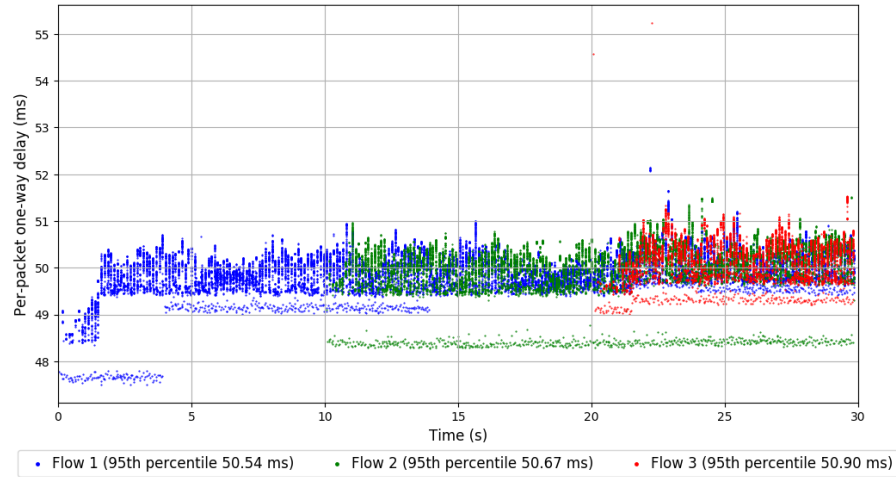
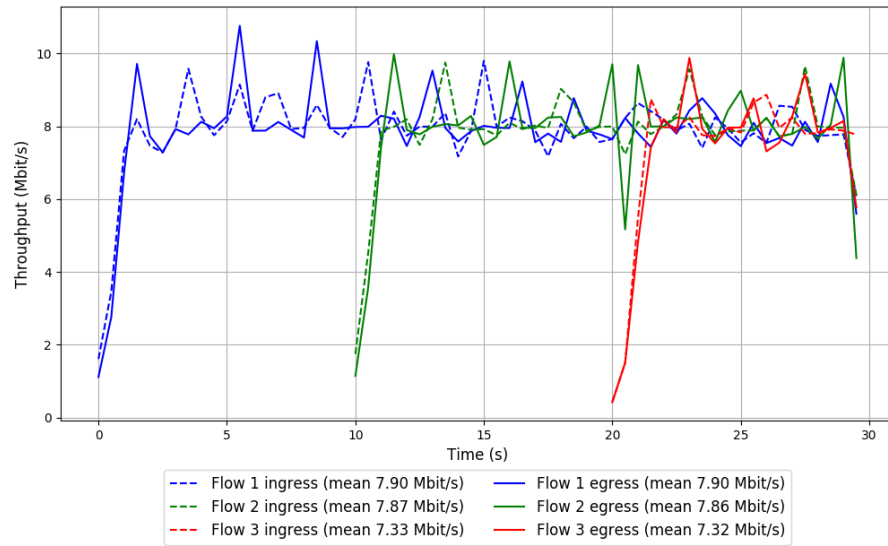
-- Flow 3:

Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 50.904 ms

Loss rate: 1.38%

Run 10: Report of Sprout — Data Link

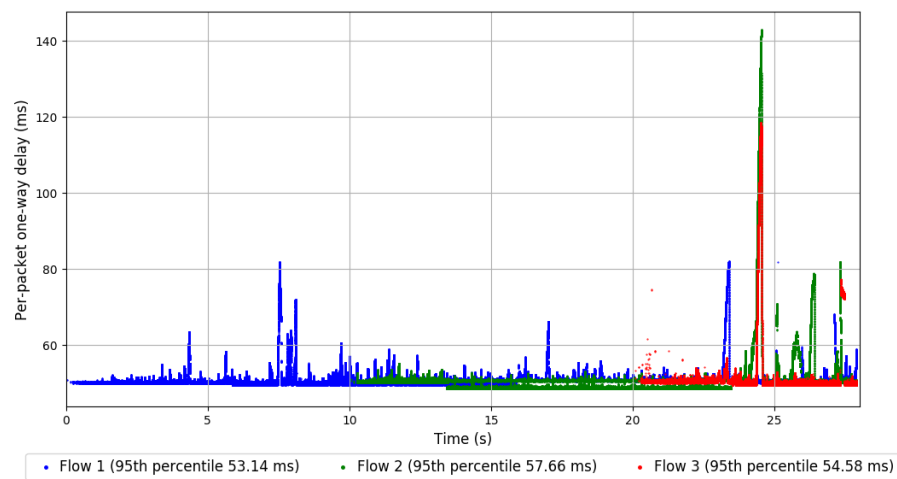
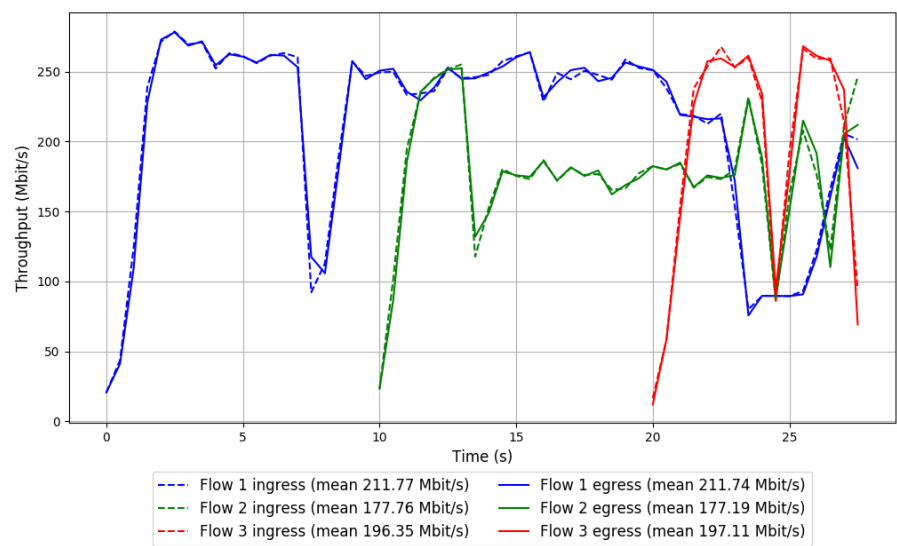


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 19:41:02
End at: 2017-11-21 19:41:32

# Below is generated by plot.py at 2017-11-22 00:23:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.43 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 211.74 Mbit/s
95th percentile per-packet one-way delay: 53.140 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 177.19 Mbit/s
95th percentile per-packet one-way delay: 57.664 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 197.11 Mbit/s
95th percentile per-packet one-way delay: 54.579 ms
Loss rate: 0.91%
```


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

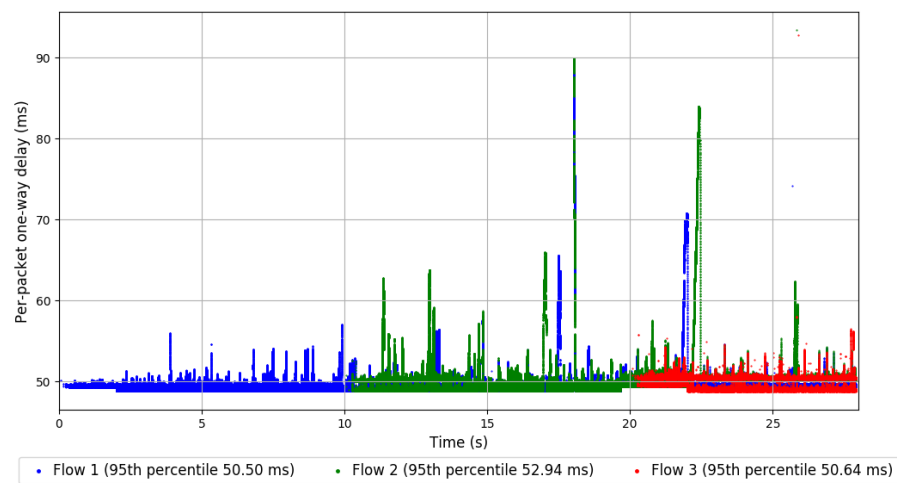
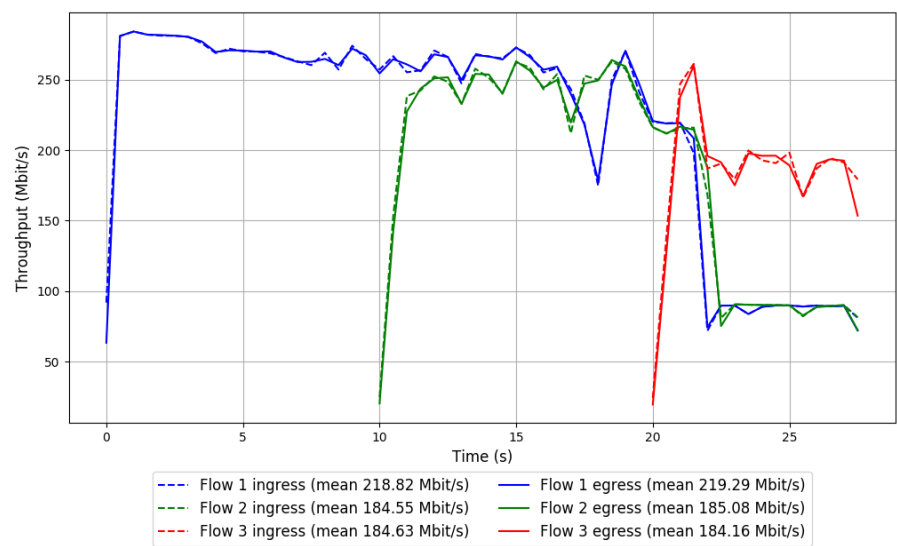


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 19:53:46
End at: 2017-11-21 19:54:16

# Below is generated by plot.py at 2017-11-22 00:24:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.61 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 219.29 Mbit/s
95th percentile per-packet one-way delay: 50.498 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 185.08 Mbit/s
95th percentile per-packet one-way delay: 52.944 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 184.16 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 1.54%
```

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

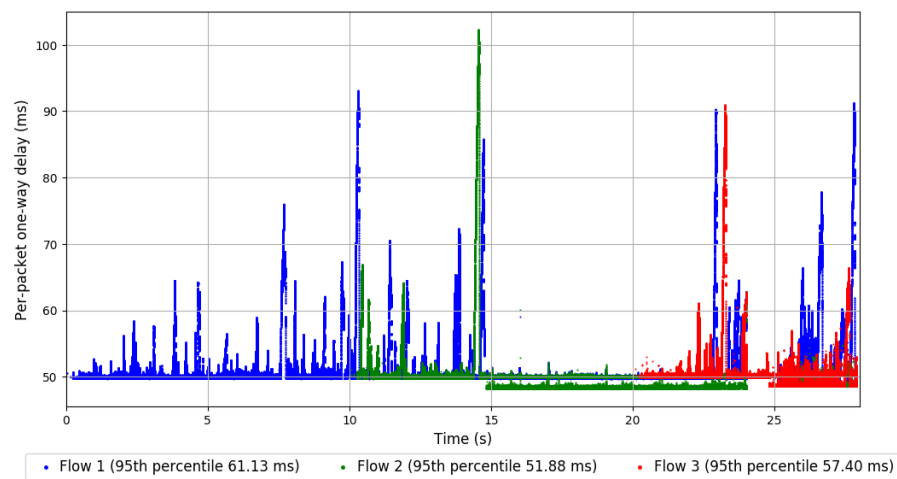
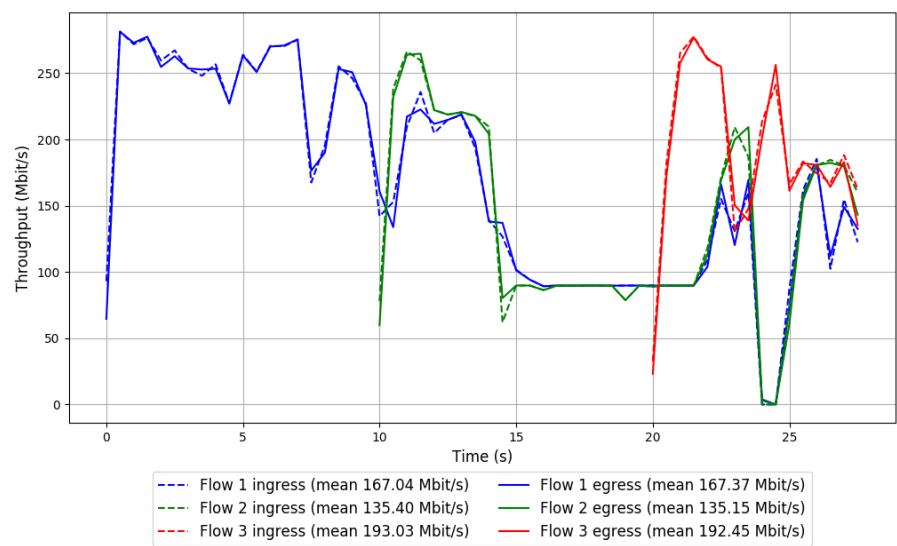


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 20:06:21
End at: 2017-11-21 20:06:51

# Below is generated by plot.py at 2017-11-22 00:24:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.79 Mbit/s
95th percentile per-packet one-way delay: 58.816 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 167.37 Mbit/s
95th percentile per-packet one-way delay: 61.130 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 135.15 Mbit/s
95th percentile per-packet one-way delay: 51.879 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 192.45 Mbit/s
95th percentile per-packet one-way delay: 57.398 ms
Loss rate: 1.59%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 20:18:49

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

Below is generated by plot.py at 2017-11-22 00:24:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.41 Mbit/s

95th percentile per-packet one-way delay: 59.491 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 220.26 Mbit/s

95th percentile per-packet one-way delay: 61.215 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 209.09 Mbit/s

95th percentile per-packet one-way delay: 61.016 ms

Loss rate: 0.36%

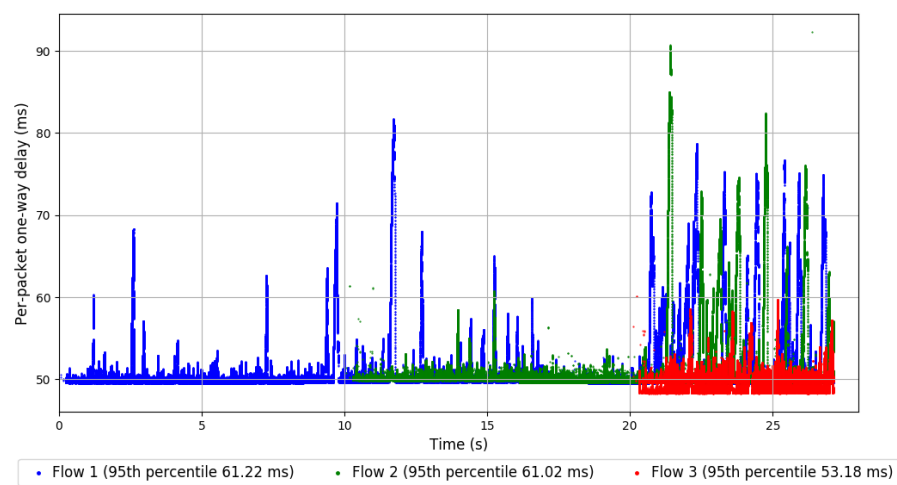
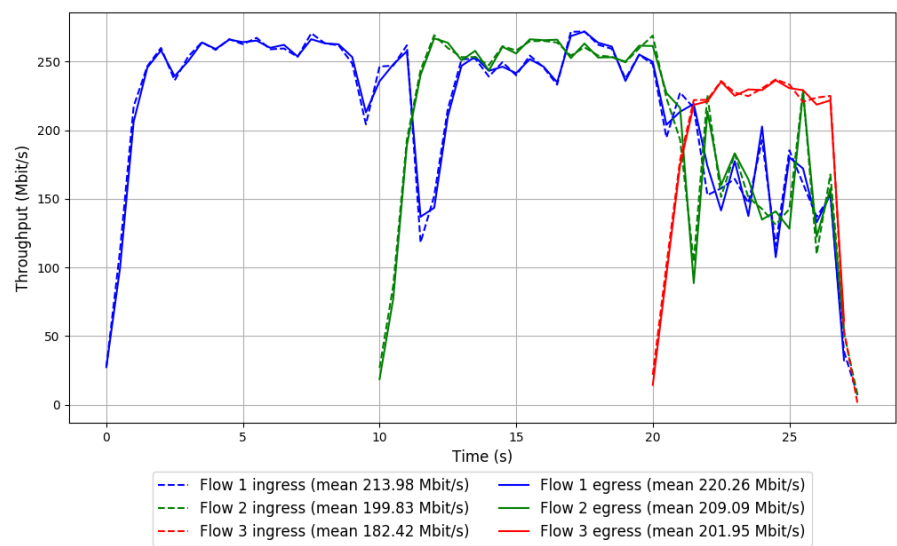
-- Flow 3:

Average throughput: 201.95 Mbit/s

95th percentile per-packet one-way delay: 53.176 ms

Loss rate: 0.63%

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



Run 5: Statistics of TaoVA-100x

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

End at: 2017-11-21 20:31:48

Below is generated by plot.py at 2017-11-22 00:24:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.72 Mbit/s

95th percentile per-packet one-way delay: 62.176 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 165.32 Mbit/s

95th percentile per-packet one-way delay: 62.113 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 156.03 Mbit/s

95th percentile per-packet one-way delay: 61.222 ms

Loss rate: 0.53%

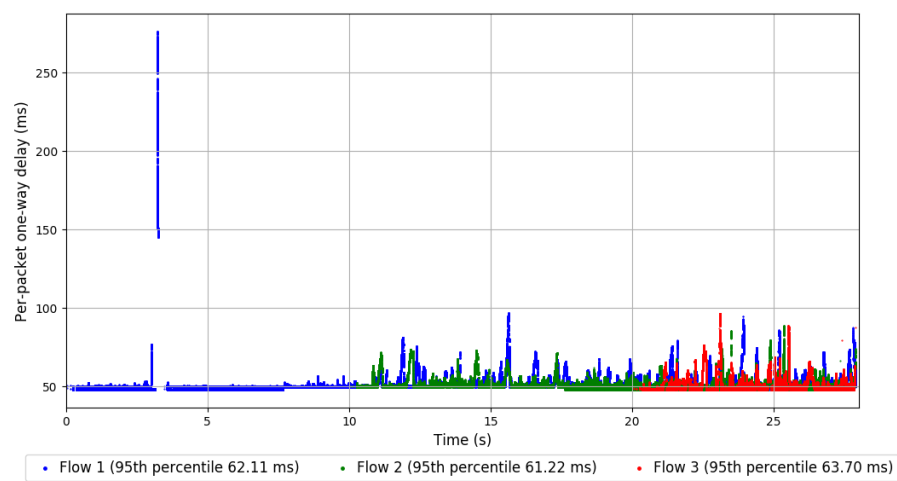
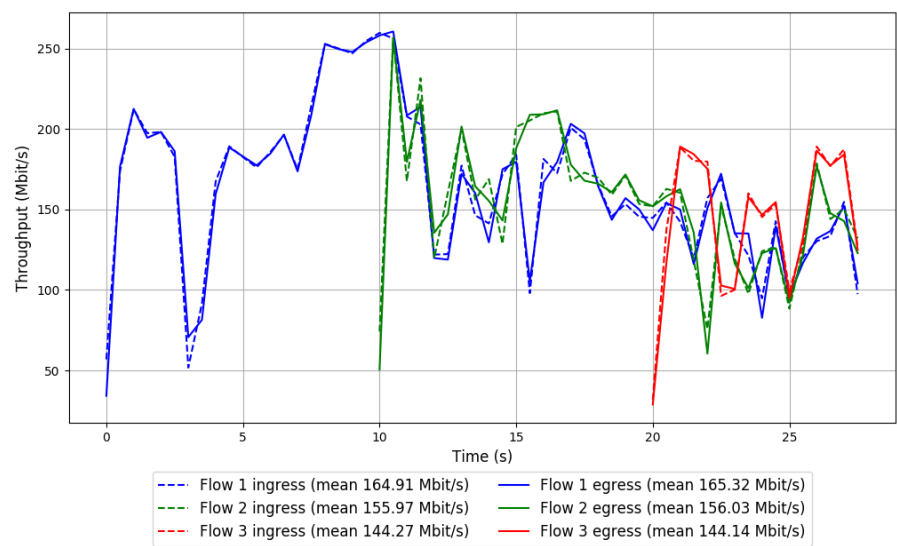
-- Flow 3:

Average throughput: 144.14 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 1.04%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 20:43:41

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

Below is generated by plot.py at 2017-11-22 00:24:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.27 Mbit/s

95th percentile per-packet one-way delay: 53.998 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 218.49 Mbit/s

95th percentile per-packet one-way delay: 50.912 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 202.16 Mbit/s

95th percentile per-packet one-way delay: 59.905 ms

Loss rate: 0.23%

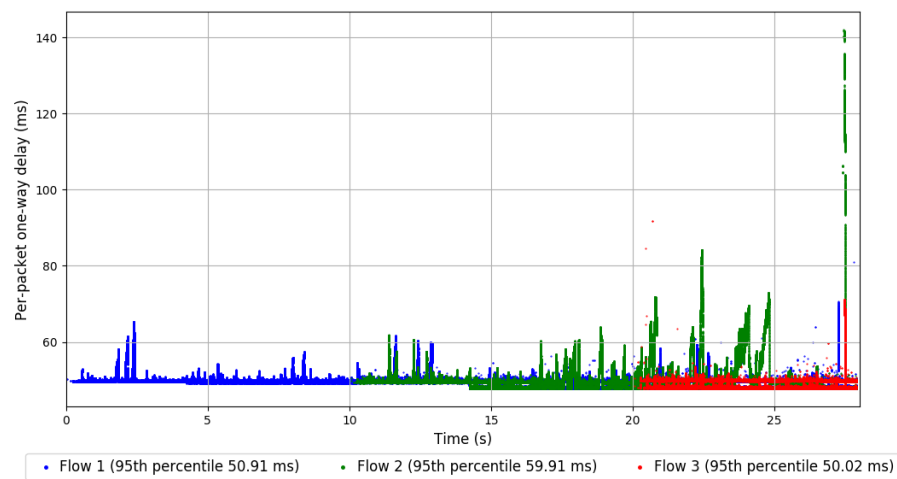
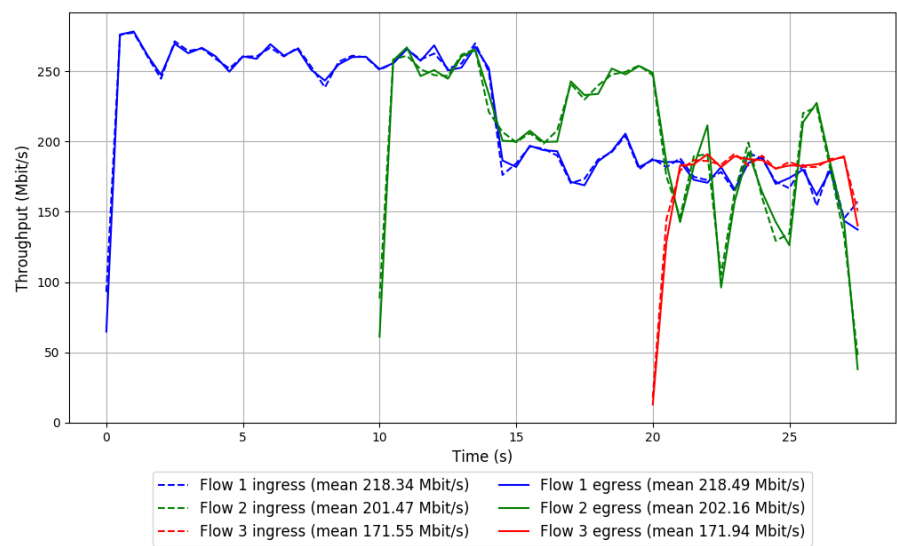
-- Flow 3:

Average throughput: 171.94 Mbit/s

95th percentile per-packet one-way delay: 50.020 ms

Loss rate: 1.04%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 20:56:03

End at: 2017-11-21 20:56:33

Below is generated by plot.py at 2017-11-22 00:24:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.21 Mbit/s

95th percentile per-packet one-way delay: 50.886 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 162.94 Mbit/s

95th percentile per-packet one-way delay: 49.866 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 200.47 Mbit/s

95th percentile per-packet one-way delay: 49.875 ms

Loss rate: 0.73%

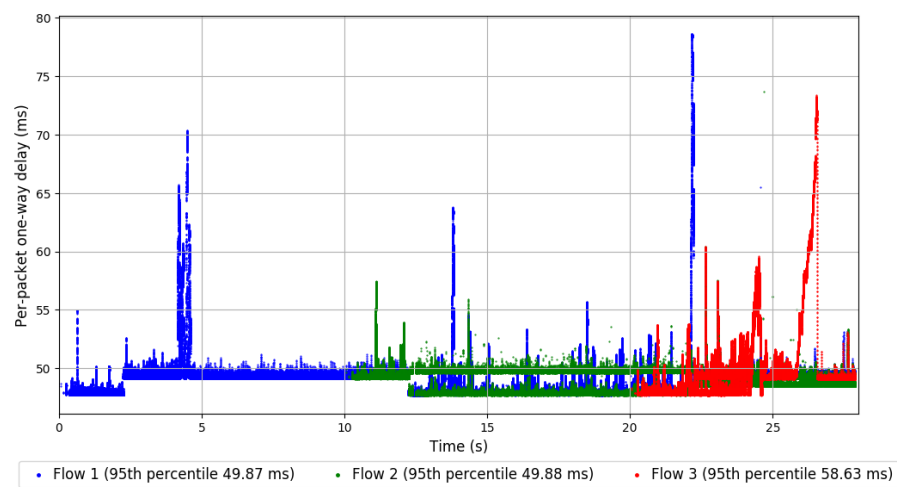
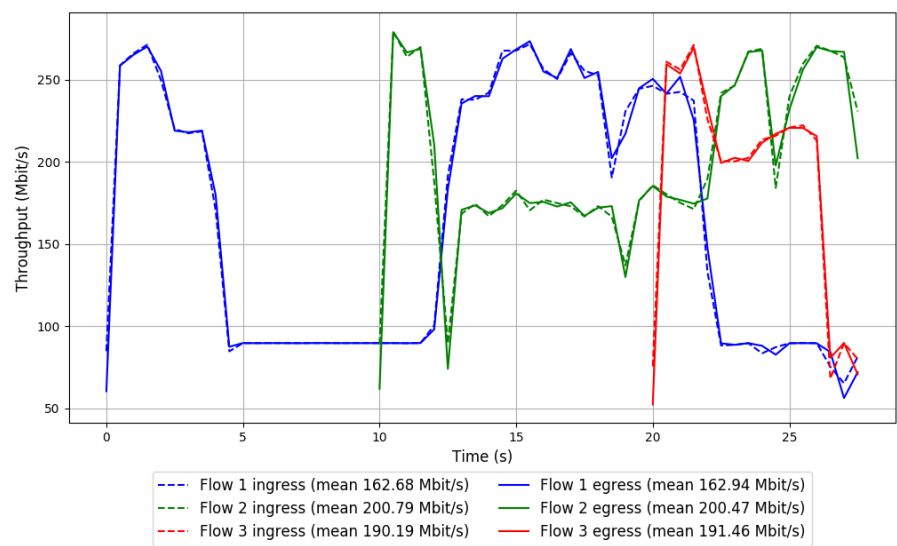
-- Flow 3:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 58.634 ms

Loss rate: 0.60%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 21:08:34

End at: 2017-11-21 21:09:04

Below is generated by plot.py at 2017-11-22 00:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.10 Mbit/s

95th percentile per-packet one-way delay: 53.239 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 203.68 Mbit/s

95th percentile per-packet one-way delay: 51.304 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 220.18 Mbit/s

95th percentile per-packet one-way delay: 55.744 ms

Loss rate: 0.39%

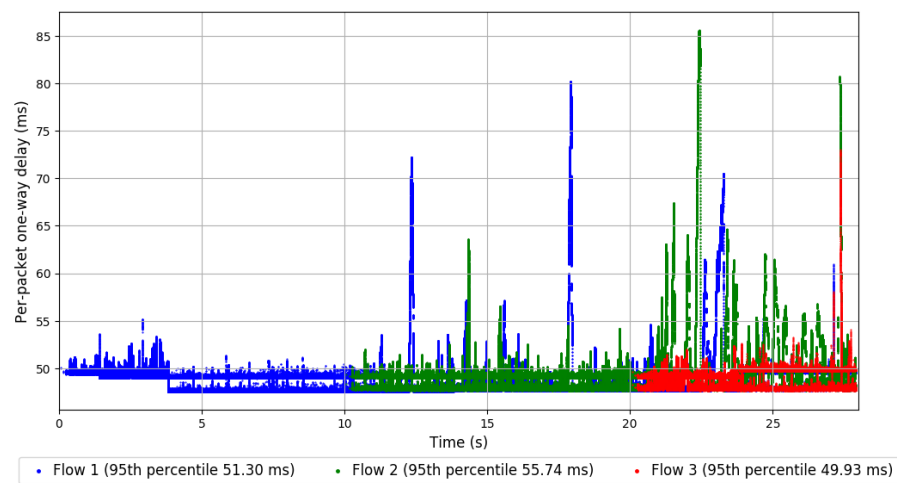
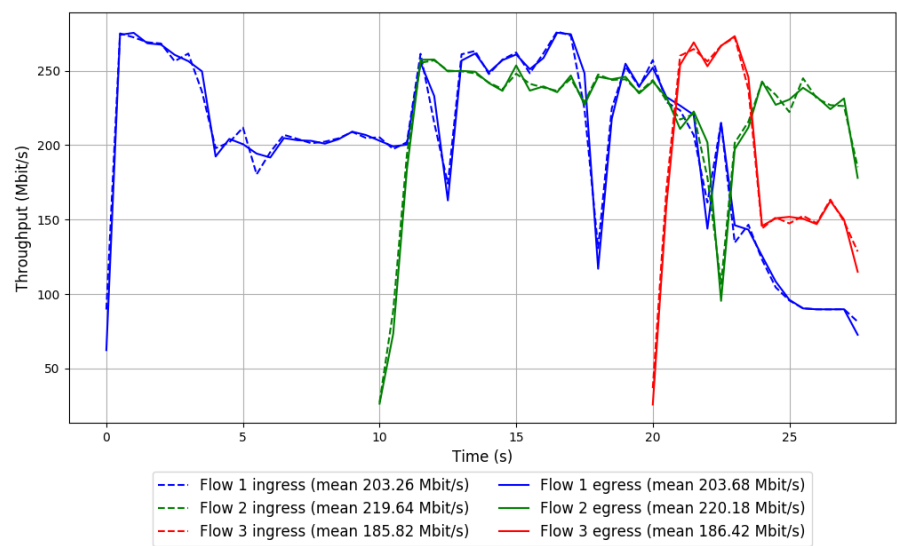
-- Flow 3:

Average throughput: 186.42 Mbit/s

95th percentile per-packet one-way delay: 49.926 ms

Loss rate: 0.94%

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

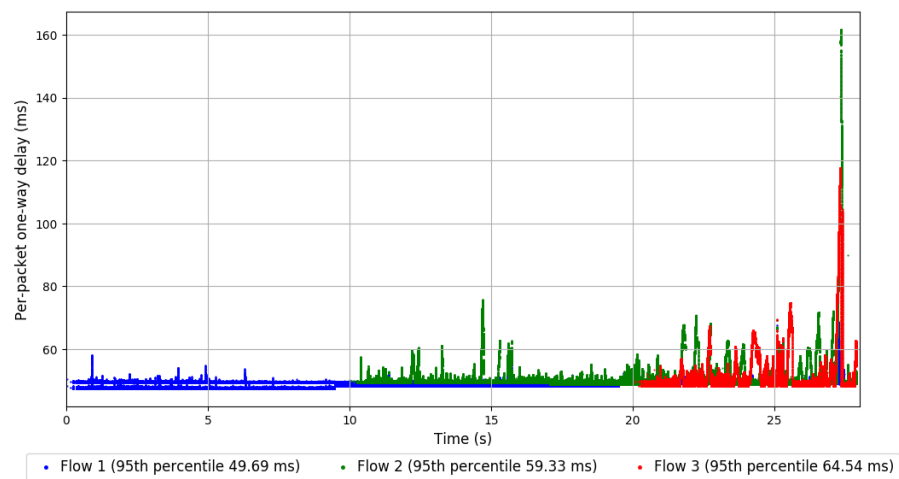
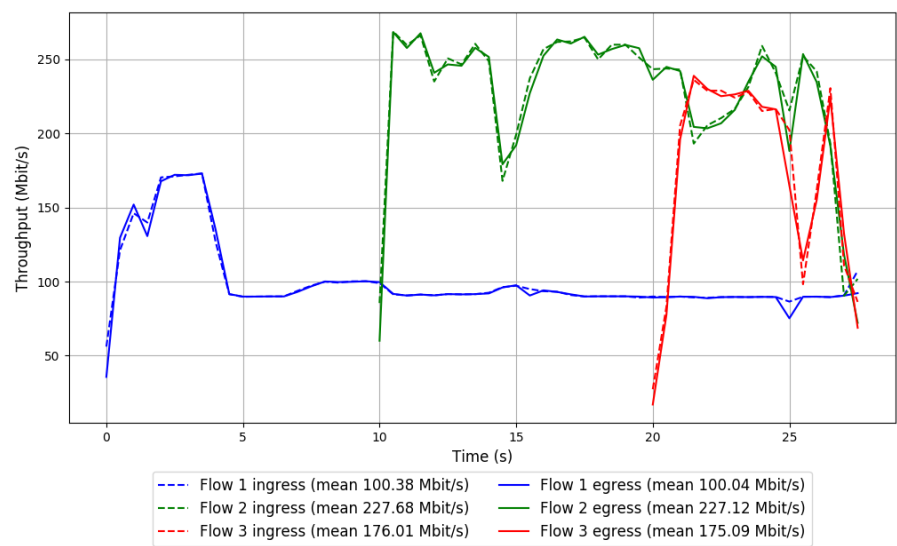


```
Run 9: Statistics of TaoVA-100x

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

# Below is generated by plot.py at 2017-11-22 00:31:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.56 Mbit/s
95th percentile per-packet one-way delay: 57.804 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 100.04 Mbit/s
95th percentile per-packet one-way delay: 49.693 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 227.12 Mbit/s
95th percentile per-packet one-way delay: 59.333 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 175.09 Mbit/s
95th percentile per-packet one-way delay: 64.541 ms
Loss rate: 1.81%
```


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

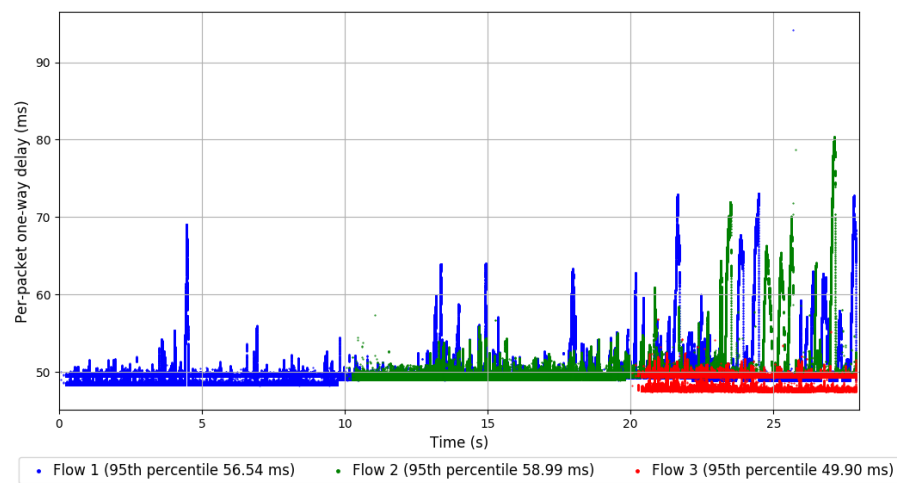
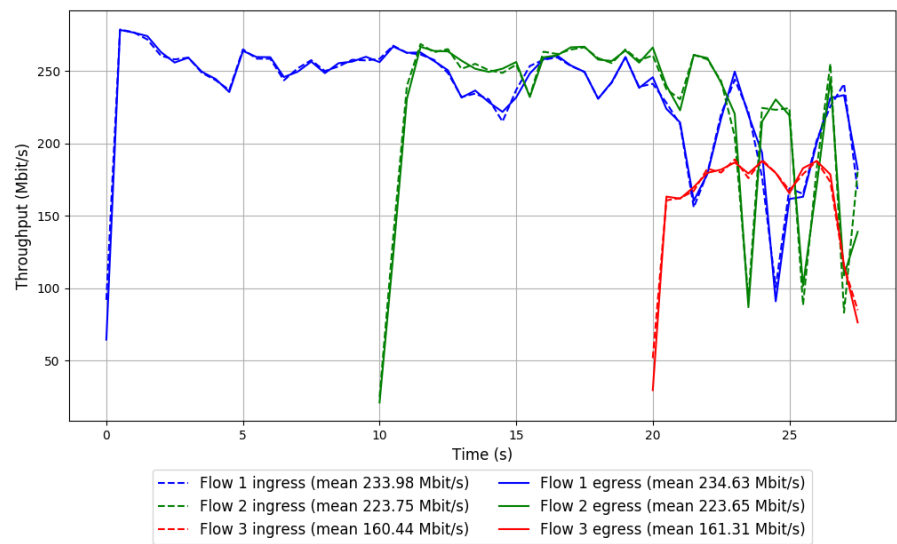


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 21:33:46
End at: 2017-11-21 21:34:16

# Below is generated by plot.py at 2017-11-22 00:35:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 423.29 Mbit/s
95th percentile per-packet one-way delay: 56.083 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 234.63 Mbit/s
95th percentile per-packet one-way delay: 56.538 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 223.65 Mbit/s
95th percentile per-packet one-way delay: 58.988 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 161.31 Mbit/s
95th percentile per-packet one-way delay: 49.902 ms
Loss rate: 0.73%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 19:34:41

End at: 2017-11-21 19:35:11

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.37 Mbit/s

95th percentile per-packet one-way delay: 54.744 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 51.671 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 50.795 ms

Loss rate: 0.85%

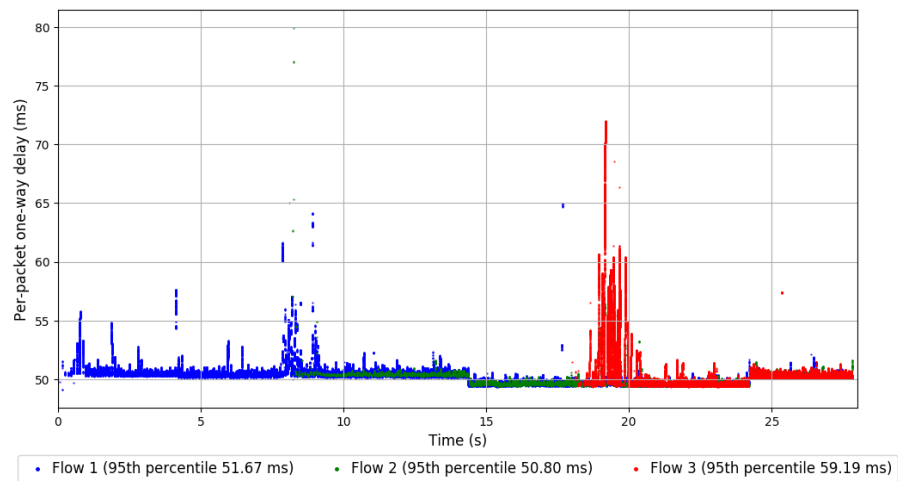
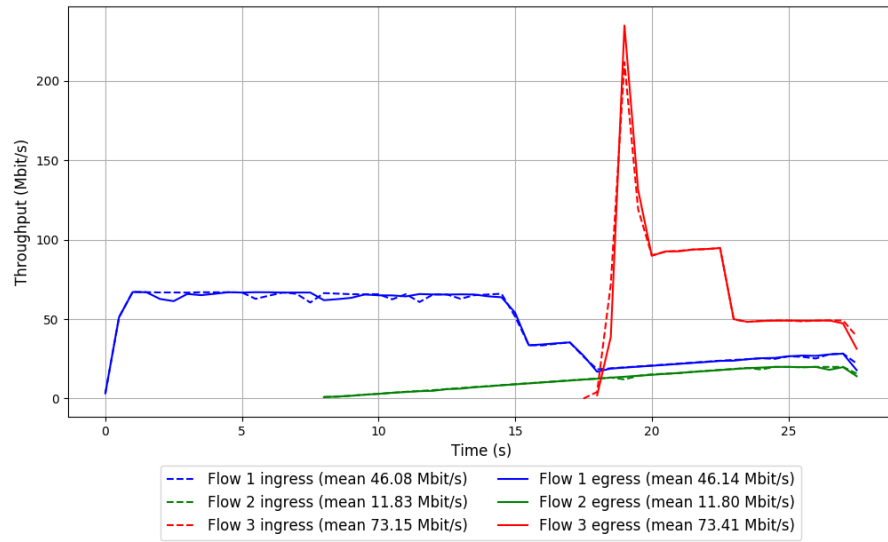
-- Flow 3:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 59.191 ms

Loss rate: 0.68%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 19:47:26

End at: 2017-11-21 19:47:56

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 55.905 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 1491.012 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 51.618 ms

Loss rate: 0.59%

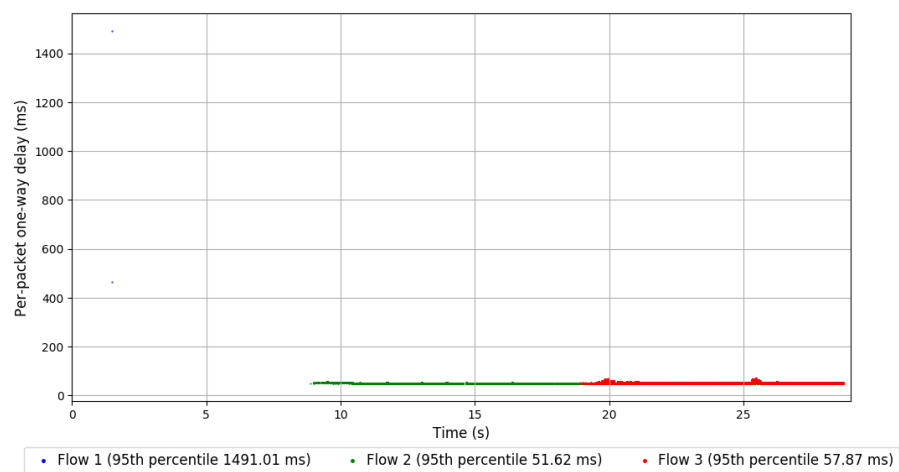
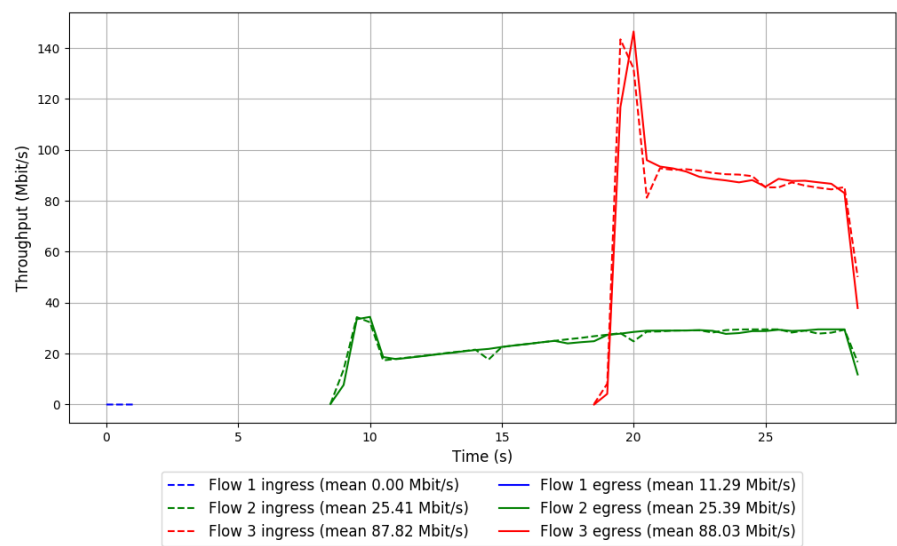
-- Flow 3:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 57.865 ms

Loss rate: 0.98%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 20:00:03

End at: 2017-11-21 20:00:33

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 51.096 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 1549.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 50.629 ms

Loss rate: 0.62%

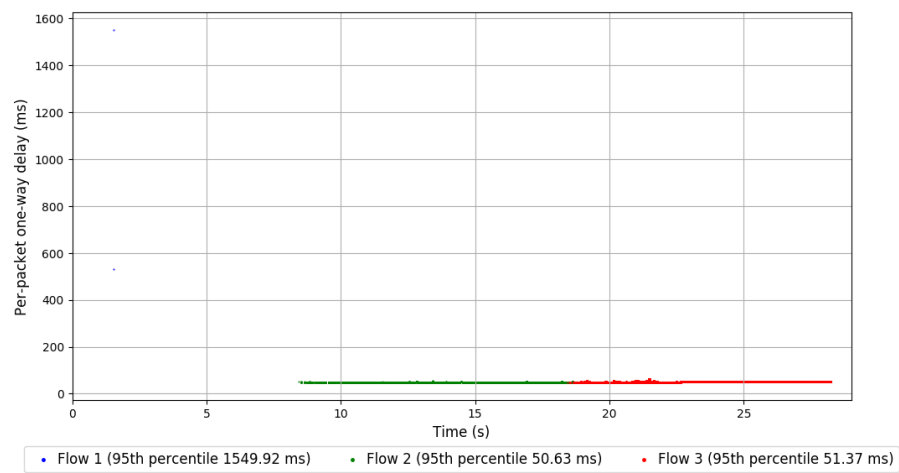
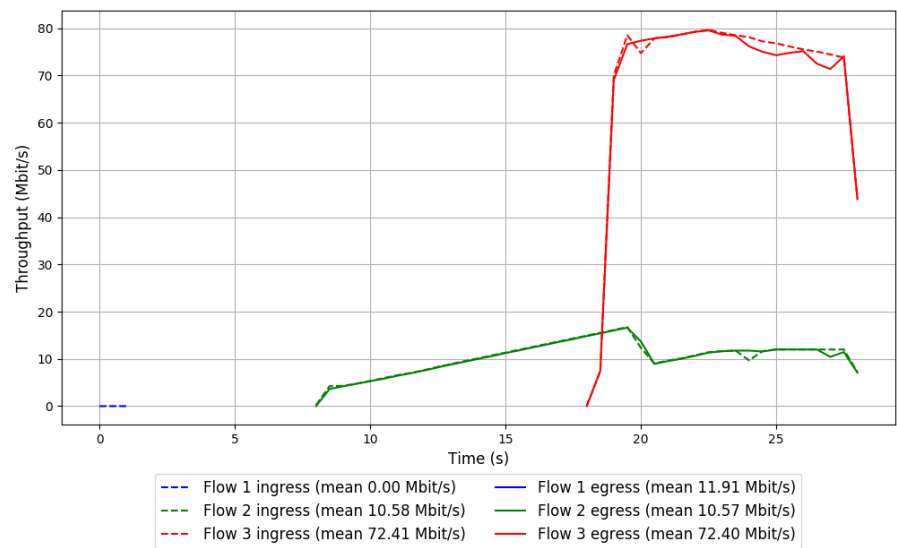
-- Flow 3:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 51.371 ms

Loss rate: 1.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 20:12:35

End at: 2017-11-21 20:13:05

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.92 Mbit/s

95th percentile per-packet one-way delay: 56.498 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 52.415 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 58.650 ms

Loss rate: 0.54%

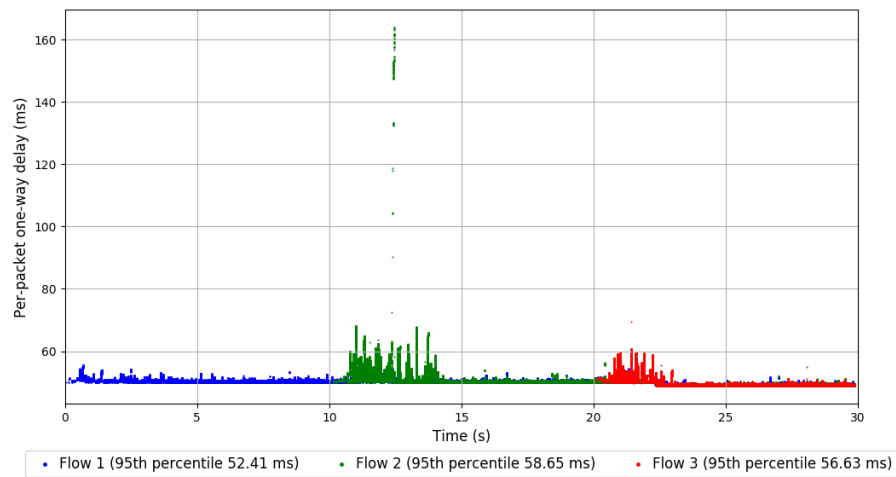
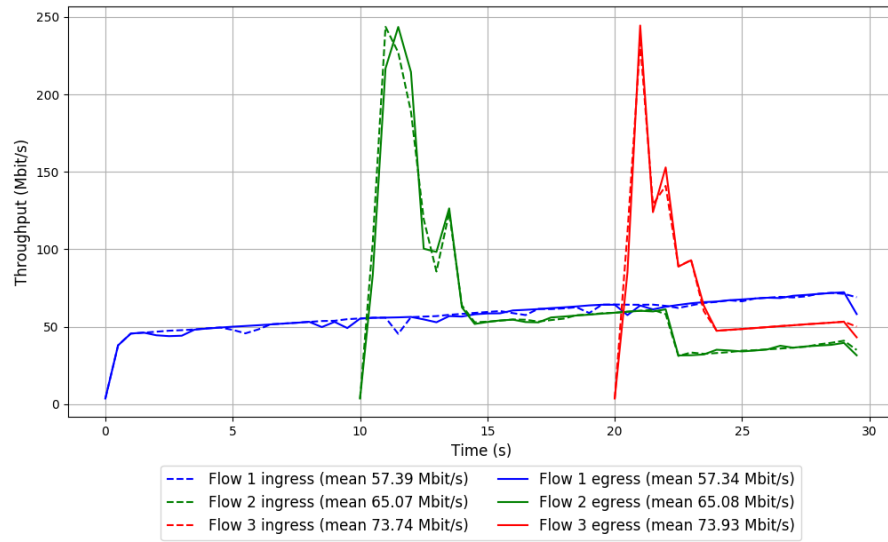
-- Flow 3:

Average throughput: 73.93 Mbit/s

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

Loss rate: 0.77%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 20:25:08

End at: 2017-11-21 20:25:38

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 16.81 Mbit/s

95th percentile per-packet one-way delay: 51.025 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 51.197 ms

Loss rate: 0.49%

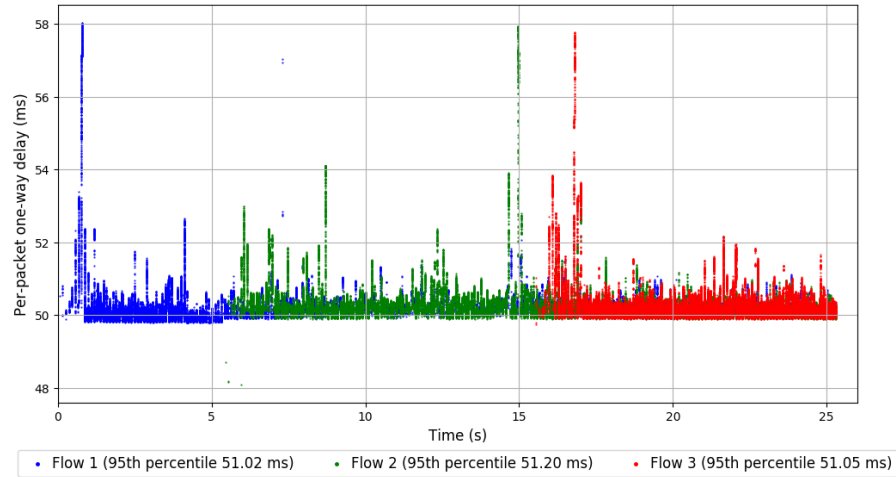
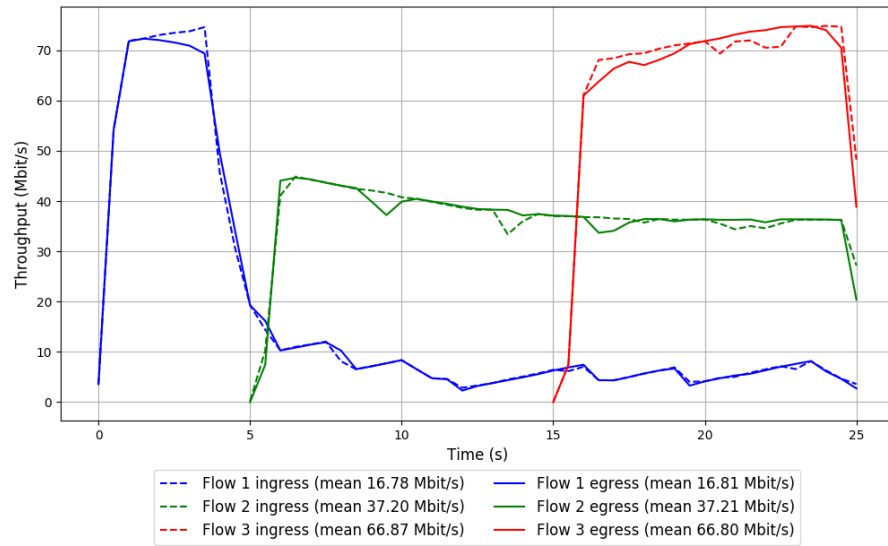
-- Flow 3:

Average throughput: 66.80 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 1.12%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 20:37:27

End at: 2017-11-21 20:37:57

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.11 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 51.089 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 98.77 Mbit/s

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

Loss rate: 0.20%

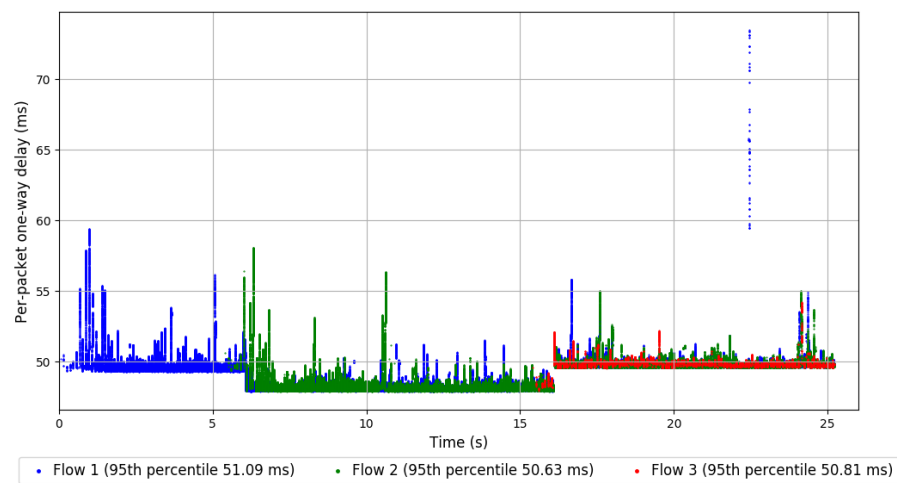
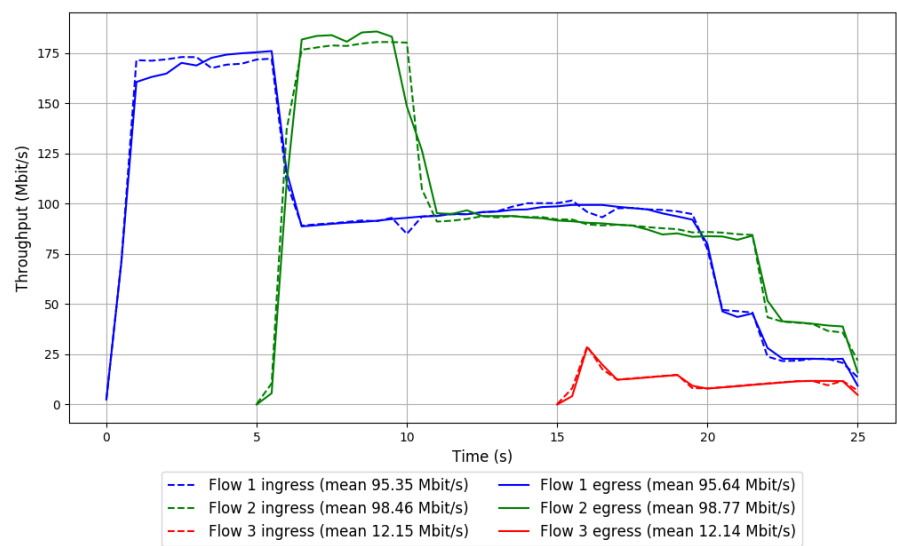
-- Flow 3:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 1.11%

Run 6: Report of TCP Vegas — Data Link

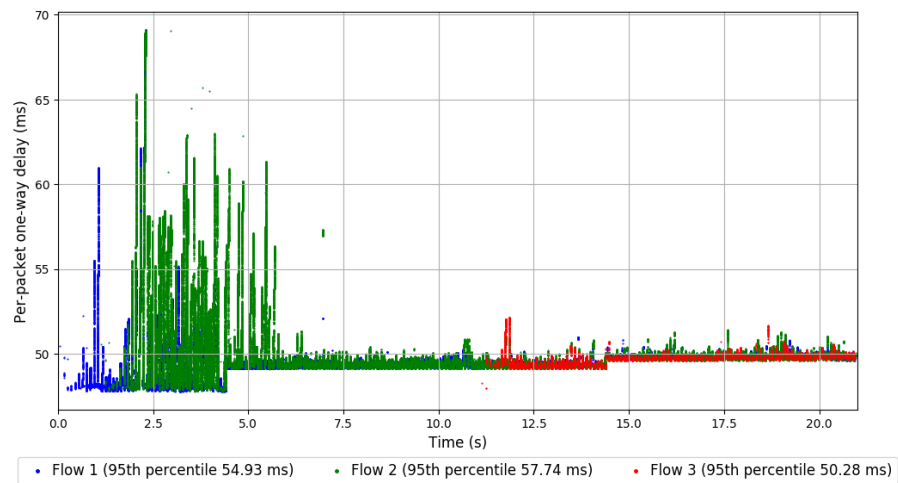
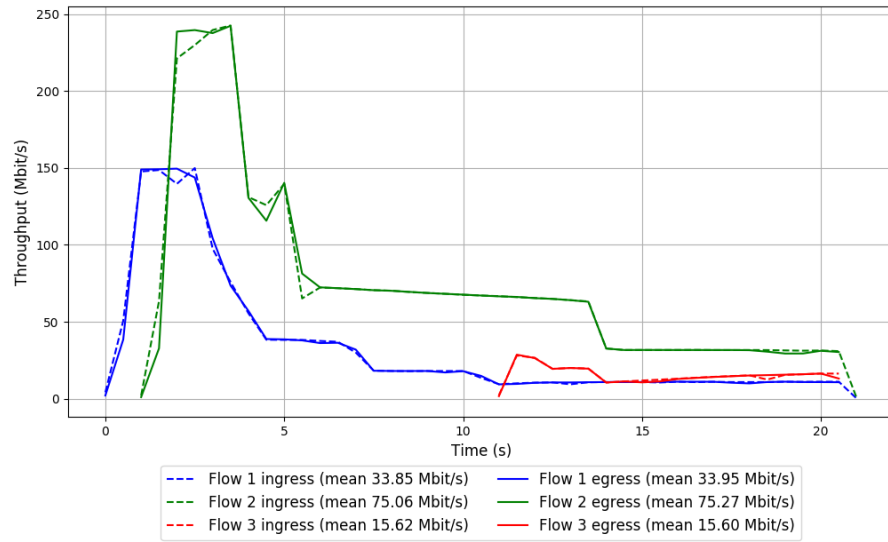


Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 20:49:54

End at: 2017-11-21 20:50:24

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

End at: 2017-11-21 21:02:50

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.81 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 1618.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.53%

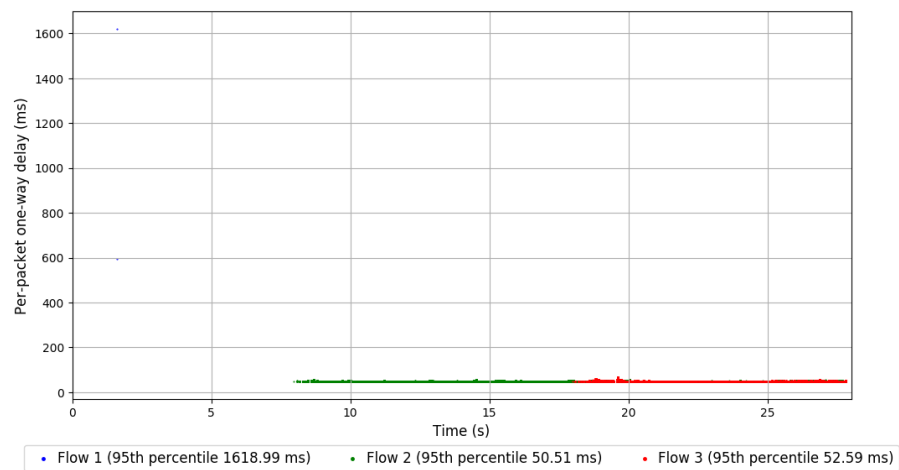
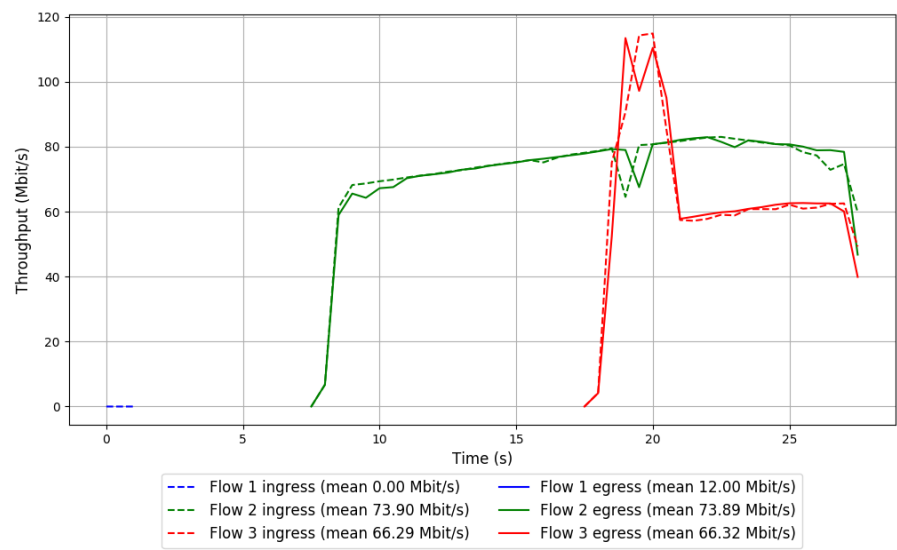
-- Flow 3:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 52.587 ms

Loss rate: 0.98%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

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

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 50.352 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 50.225 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 50.303 ms

Loss rate: 0.26%

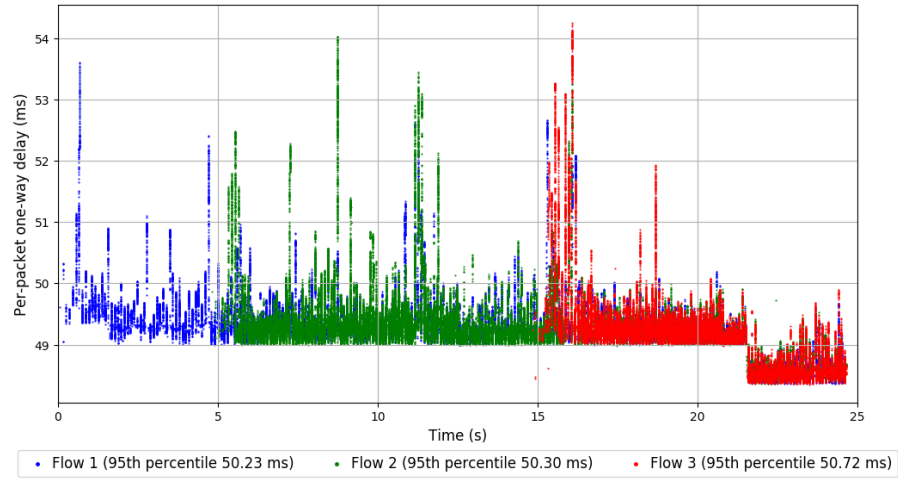
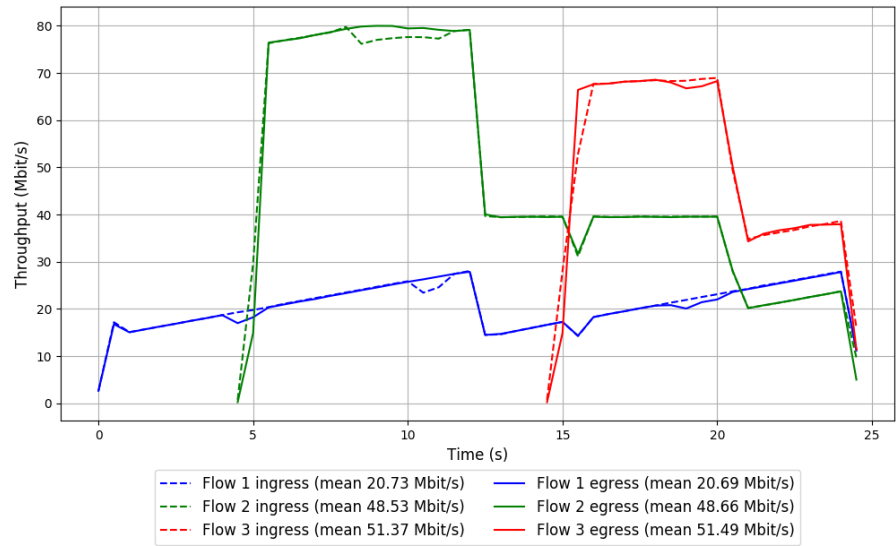
-- Flow 3:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 50.715 ms

Loss rate: 0.77%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 21:27:19

End at: 2017-11-21 21:27:49

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.26 Mbit/s

95th percentile per-packet one-way delay: 54.527 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 44.51 Mbit/s

95th percentile per-packet one-way delay: 51.354 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 167.39 Mbit/s

95th percentile per-packet one-way delay: 55.807 ms

Loss rate: 0.50%

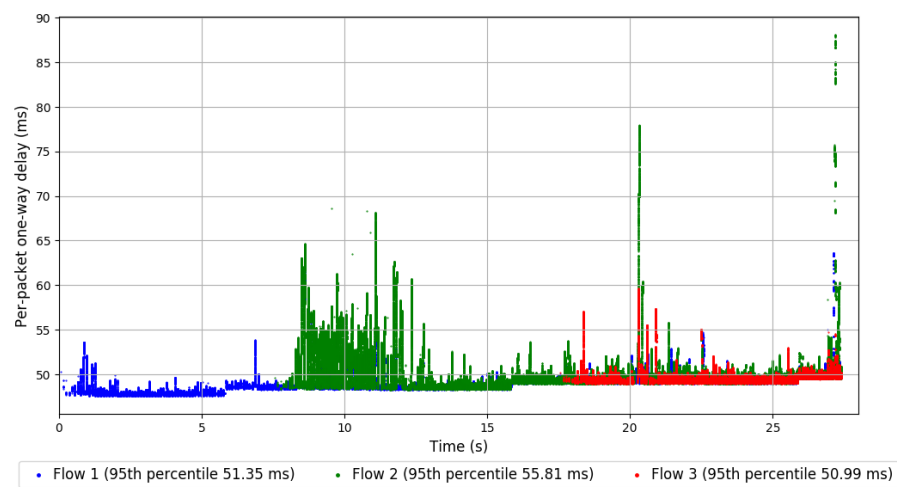
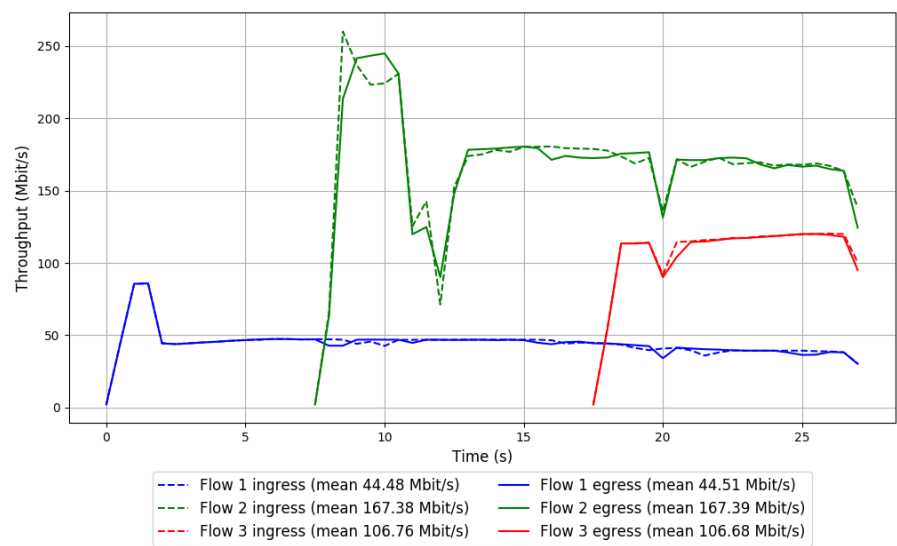
-- Flow 3:

Average throughput: 106.68 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 1.11%

Run 10: Report of TCP Vegas — Data Link

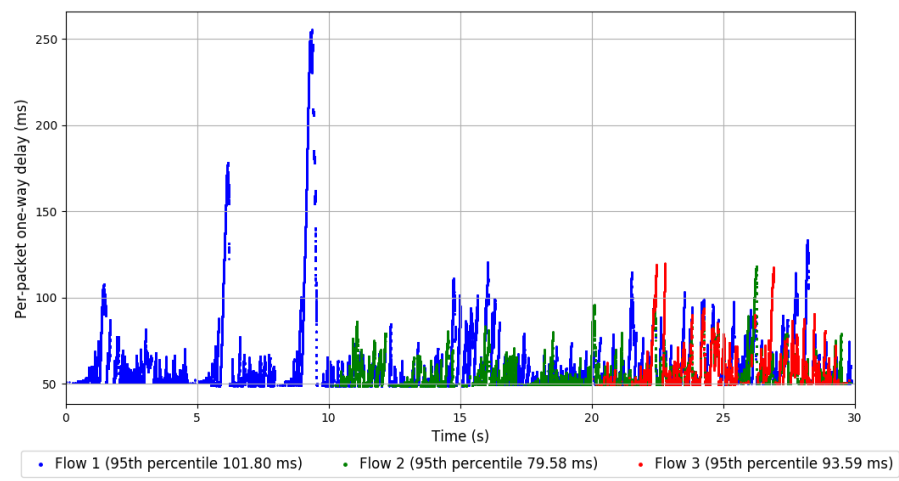
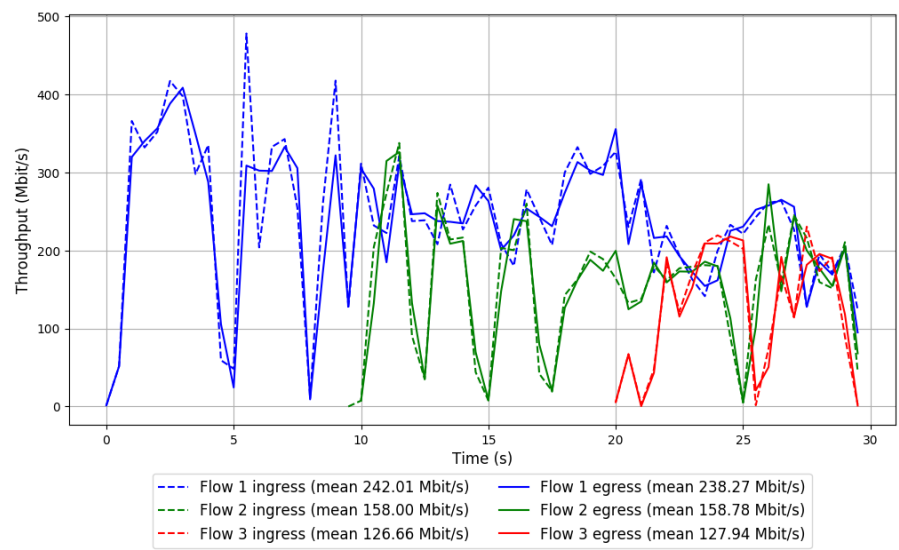


```
Run 1: Statistics of Verus

Start at: 2017-11-21 19:39:52
End at: 2017-11-21 19:40:22

# Below is generated by plot.py at 2017-11-22 00:35:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.49 Mbit/s
95th percentile per-packet one-way delay: 95.595 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 238.27 Mbit/s
95th percentile per-packet one-way delay: 101.797 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 158.78 Mbit/s
95th percentile per-packet one-way delay: 79.581 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 127.94 Mbit/s
95th percentile per-packet one-way delay: 93.594 ms
Loss rate: 0.06%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

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 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.62 Mbit/s

95th percentile per-packet one-way delay: 143.830 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 218.27 Mbit/s

95th percentile per-packet one-way delay: 137.884 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 135.54 Mbit/s

95th percentile per-packet one-way delay: 209.119 ms

Loss rate: 3.75%

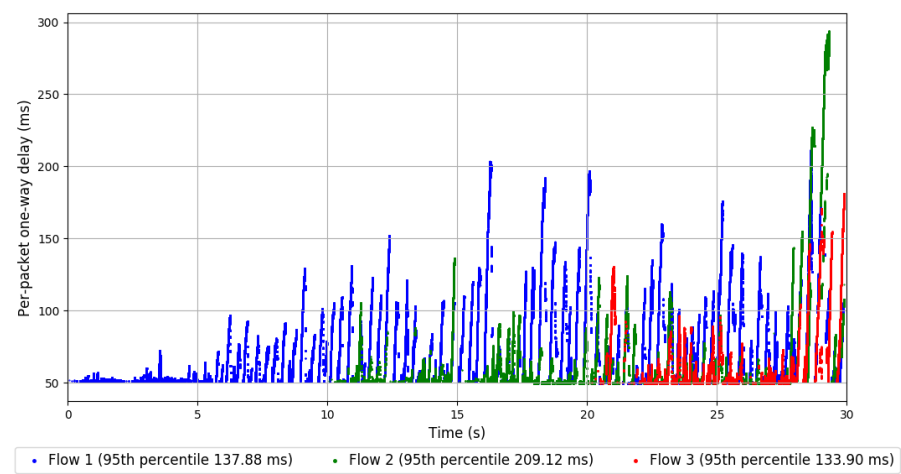
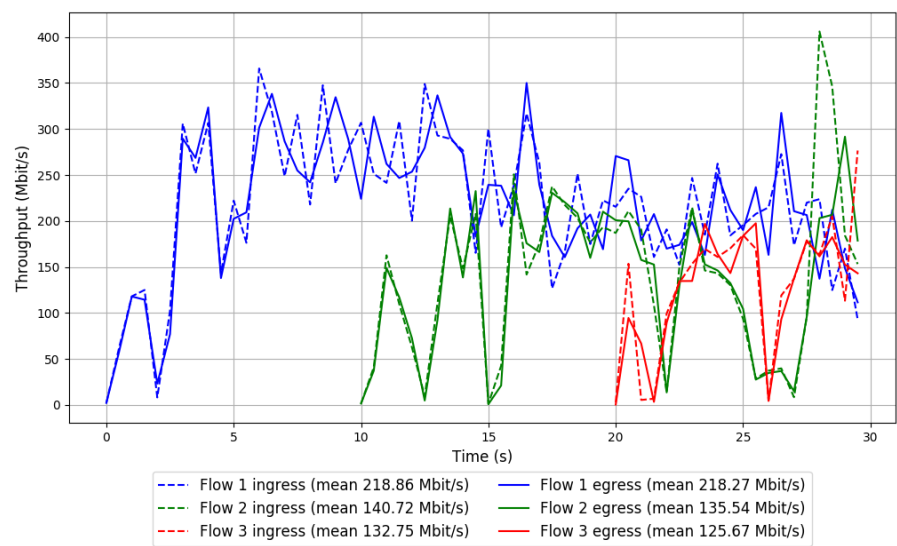
-- Flow 3:

Average throughput: 125.67 Mbit/s

95th percentile per-packet one-way delay: 133.902 ms

Loss rate: 5.48%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 20:05:14

End at: 2017-11-21 20:05:44

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.17 Mbit/s

95th percentile per-packet one-way delay: 134.427 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 229.46 Mbit/s

95th percentile per-packet one-way delay: 133.751 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 141.05 Mbit/s

95th percentile per-packet one-way delay: 148.300 ms

Loss rate: 1.38%

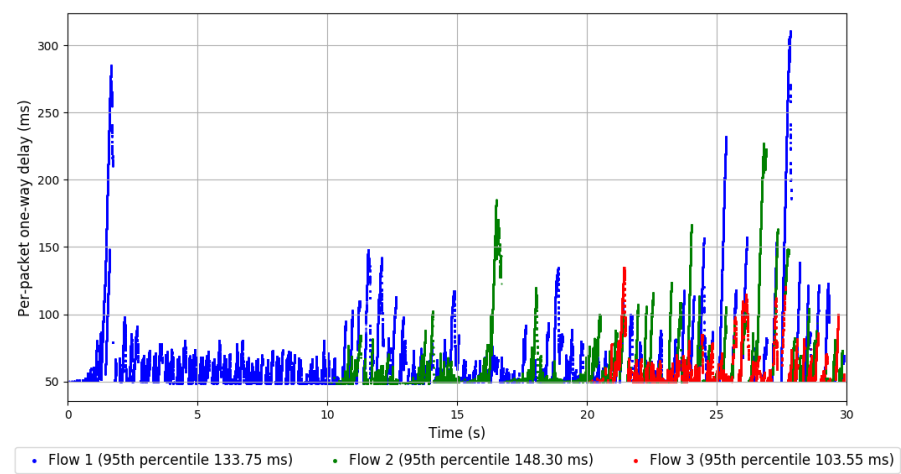
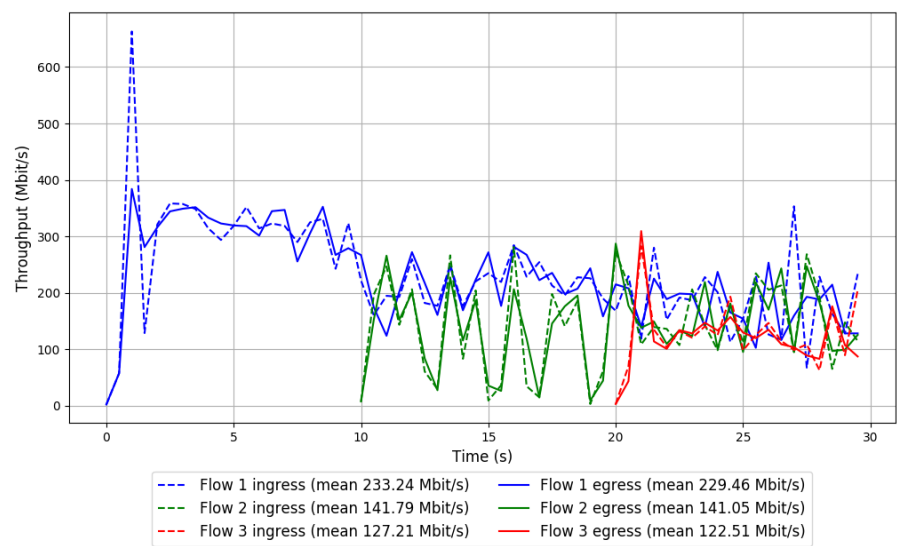
-- Flow 3:

Average throughput: 122.51 Mbit/s

95th percentile per-packet one-way delay: 103.554 ms

Loss rate: 4.69%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 20:17:43

End at: 2017-11-21 20:18:13

Below is generated by plot.py at 2017-11-22 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.38 Mbit/s

95th percentile per-packet one-way delay: 94.721 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 206.73 Mbit/s

95th percentile per-packet one-way delay: 93.905 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 197.63 Mbit/s

95th percentile per-packet one-way delay: 98.356 ms

Loss rate: 0.41%

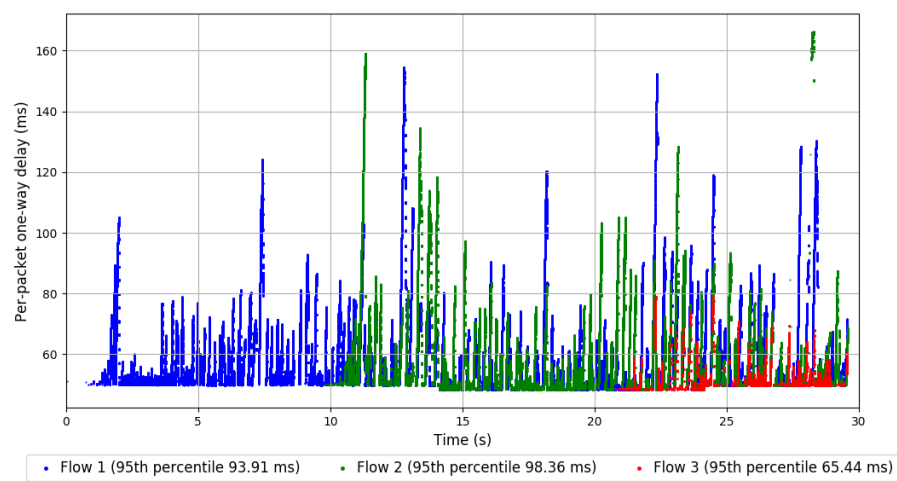
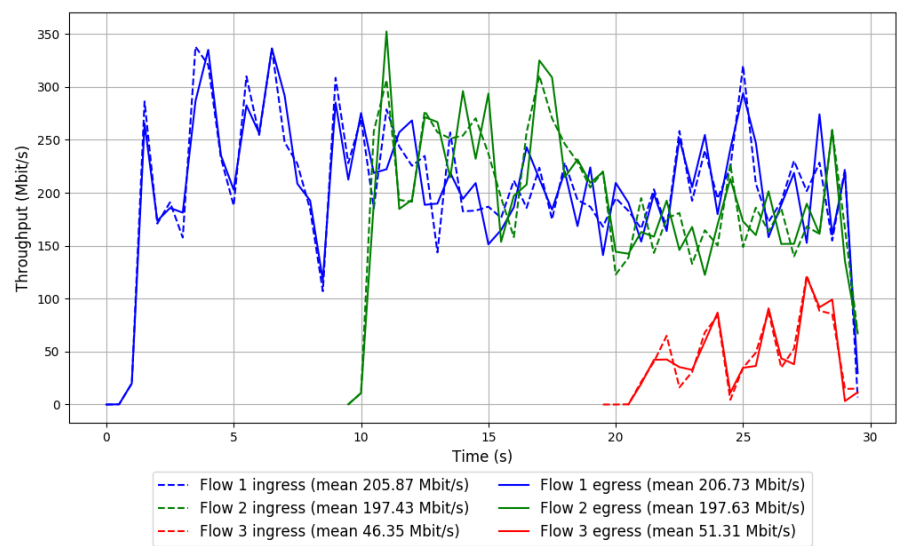
-- Flow 3:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 65.444 ms

Loss rate: 1.67%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 20:30:06

End at: 2017-11-21 20:30:36

Below is generated by plot.py at 2017-11-22 00:37:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.36 Mbit/s

95th percentile per-packet one-way delay: 114.742 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 231.87 Mbit/s

95th percentile per-packet one-way delay: 112.179 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 148.86 Mbit/s

95th percentile per-packet one-way delay: 87.312 ms

Loss rate: 0.49%

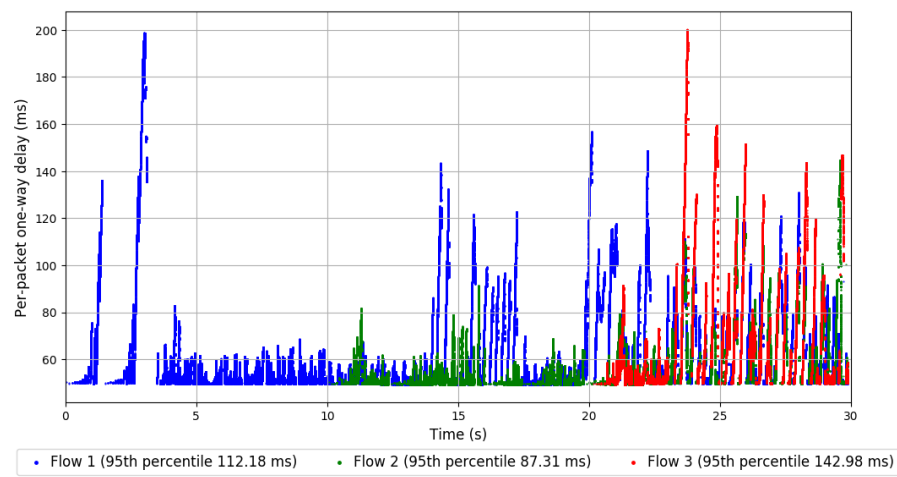
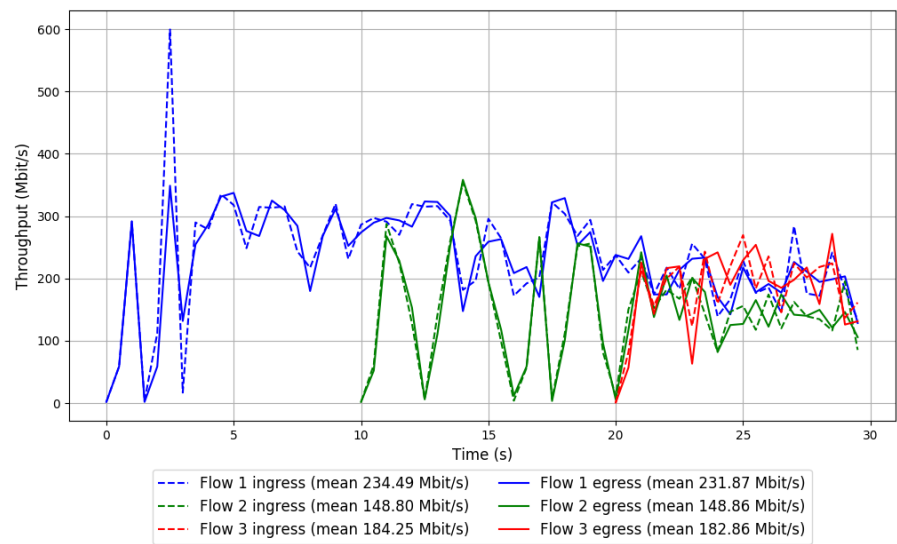
-- Flow 3:

Average throughput: 182.86 Mbit/s

95th percentile per-packet one-way delay: 142.984 ms

Loss rate: 1.77%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 20:42:35

End at: 2017-11-21 20:43:05

Below is generated by plot.py at 2017-11-22 00:37:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.88 Mbit/s

95th percentile per-packet one-way delay: 122.966 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 191.73 Mbit/s

95th percentile per-packet one-way delay: 137.294 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 172.75 Mbit/s

95th percentile per-packet one-way delay: 115.411 ms

Loss rate: 0.57%

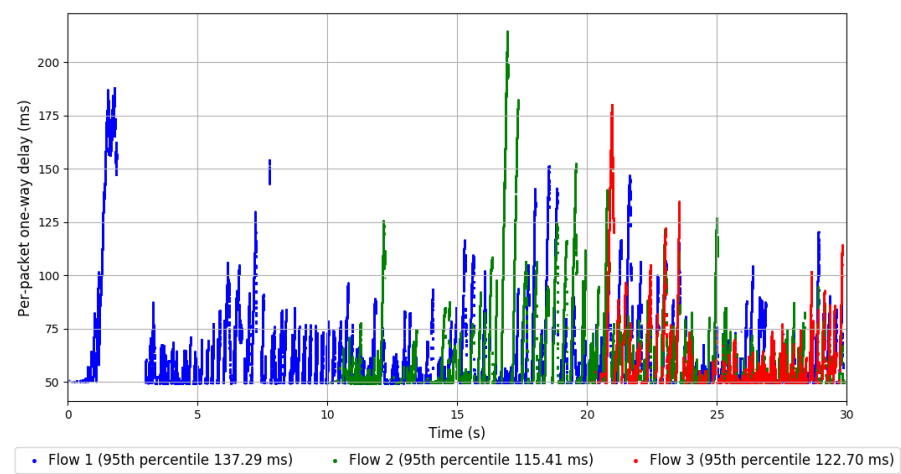
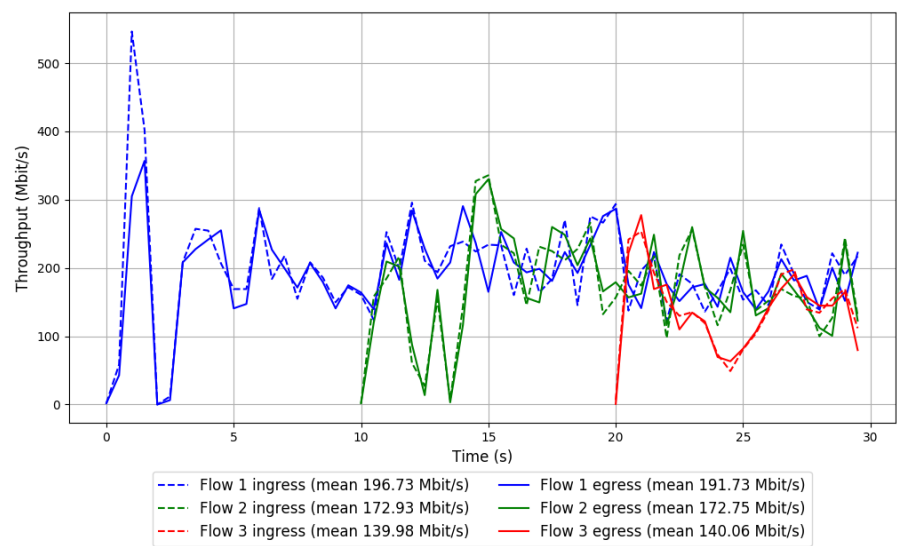
-- Flow 3:

Average throughput: 140.06 Mbit/s

95th percentile per-packet one-way delay: 122.698 ms

Loss rate: 1.70%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 20:54:57

End at: 2017-11-21 20:55:27

Below is generated by plot.py at 2017-11-22 00:38:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.97 Mbit/s

95th percentile per-packet one-way delay: 88.453 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 222.31 Mbit/s

95th percentile per-packet one-way delay: 94.697 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 153.62 Mbit/s

95th percentile per-packet one-way delay: 78.981 ms

Loss rate: 0.60%

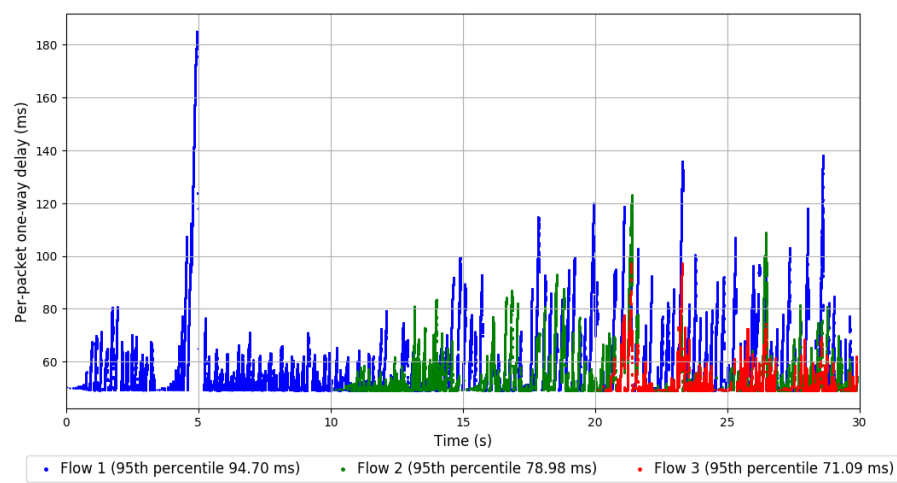
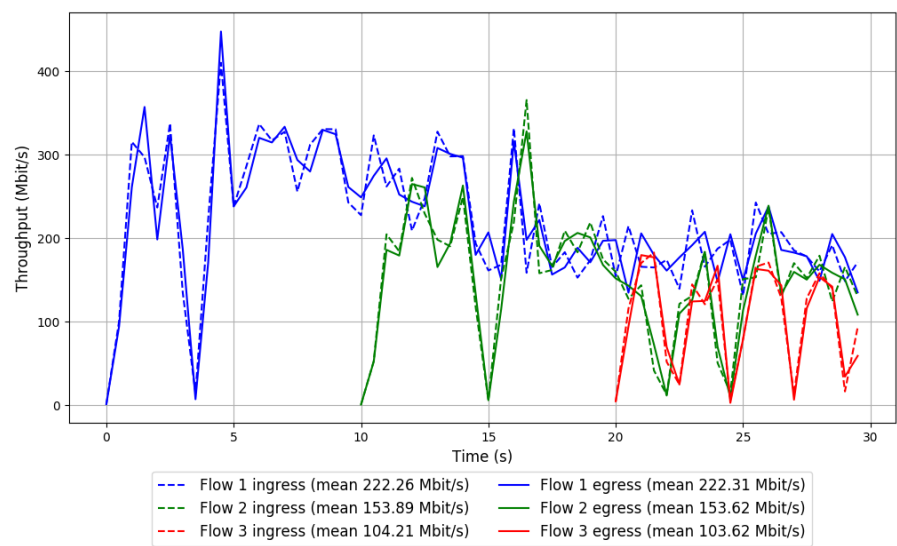
-- Flow 3:

Average throughput: 103.62 Mbit/s

95th percentile per-packet one-way delay: 71.092 ms

Loss rate: 1.86%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 21:07:29

End at: 2017-11-21 21:07:59

Below is generated by plot.py at 2017-11-22 00:40:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.54 Mbit/s

95th percentile per-packet one-way delay: 178.763 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 228.88 Mbit/s

95th percentile per-packet one-way delay: 190.651 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 124.64 Mbit/s

95th percentile per-packet one-way delay: 127.455 ms

Loss rate: 0.56%

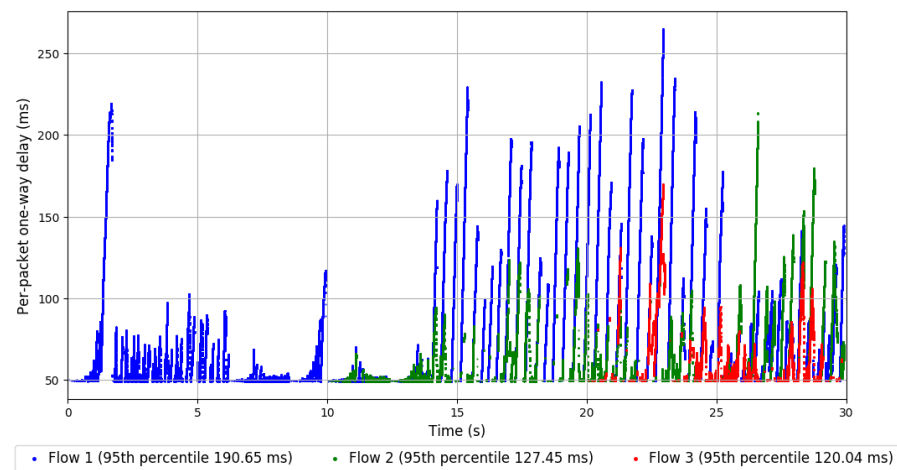
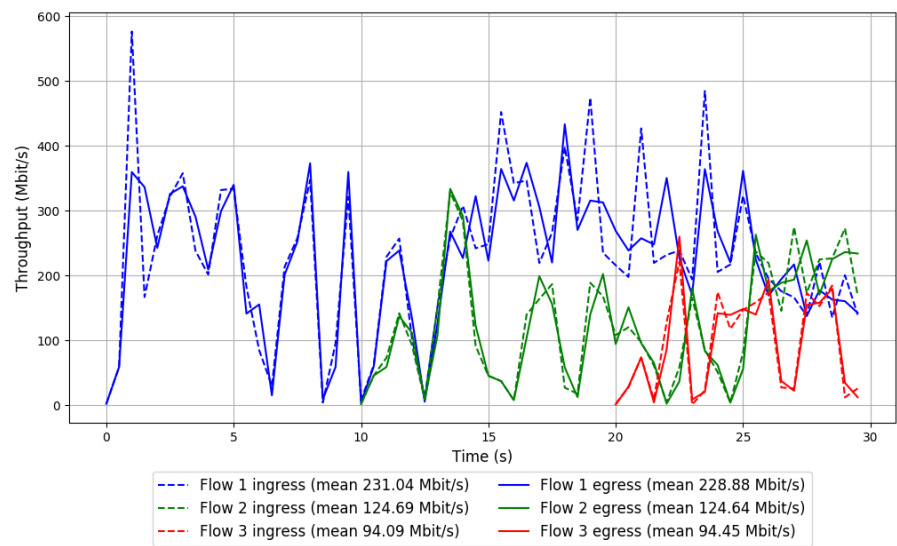
-- Flow 3:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 120.036 ms

Loss rate: 0.74%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

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

Below is generated by plot.py at 2017-11-22 00:41:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.38 Mbit/s

95th percentile per-packet one-way delay: 120.116 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 206.47 Mbit/s

95th percentile per-packet one-way delay: 114.418 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 216.57 Mbit/s

95th percentile per-packet one-way delay: 129.418 ms

Loss rate: 0.80%

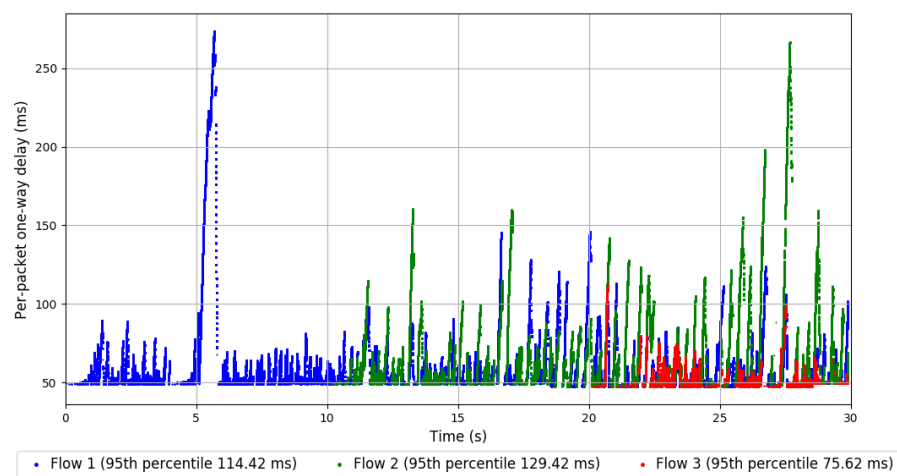
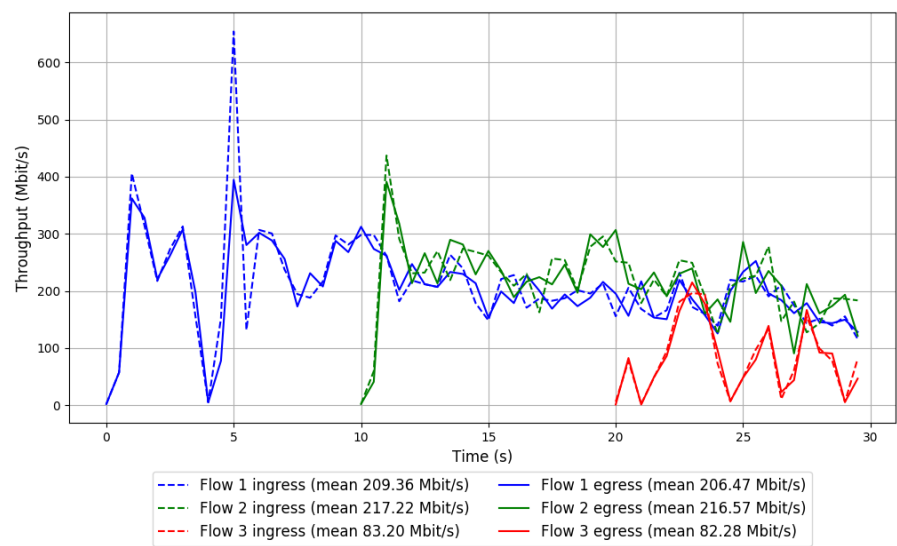
-- Flow 3:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 75.616 ms

Loss rate: 2.12%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 21:32:40

End at: 2017-11-21 21:33:10

Below is generated by plot.py at 2017-11-22 00:41:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.06 Mbit/s

95th percentile per-packet one-way delay: 110.565 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 197.74 Mbit/s

95th percentile per-packet one-way delay: 103.325 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 200.36 Mbit/s

95th percentile per-packet one-way delay: 119.159 ms

Loss rate: 0.48%

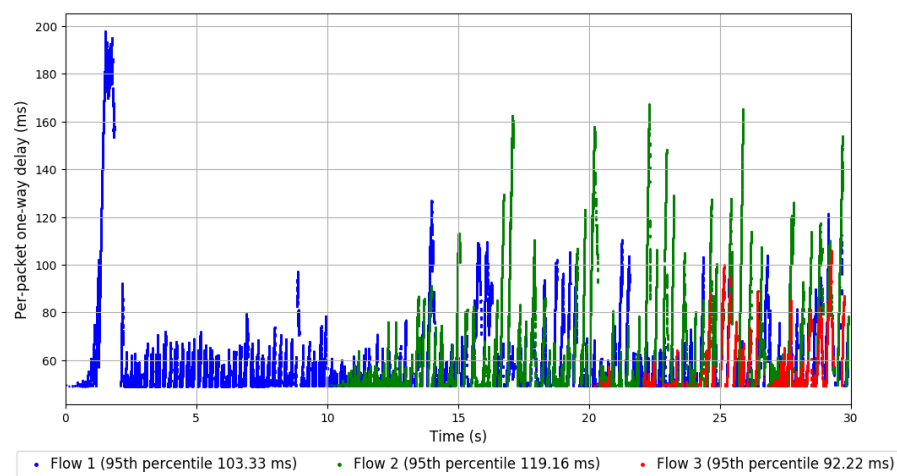
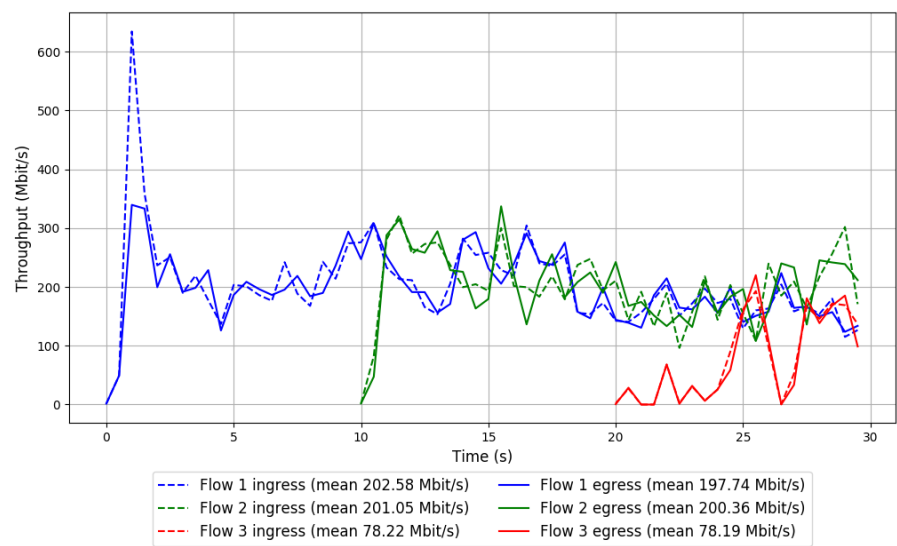
-- Flow 3:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 92.222 ms

Loss rate: 2.46%

Run 10: Report of Verus — Data Link

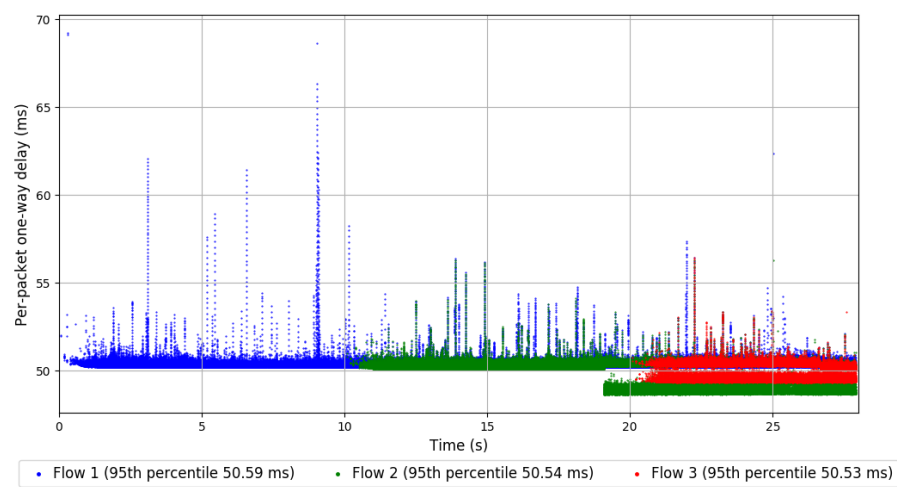
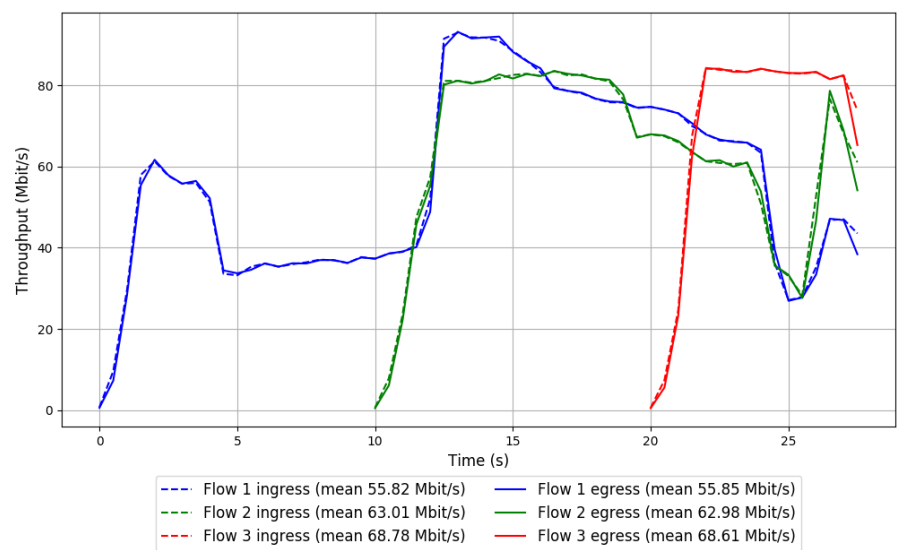


```
Run 1: Statistics of Copa

Start at: 2017-11-21 19:32:09
End at: 2017-11-21 19:32:39

# Below is generated by plot.py at 2017-11-22 00:41:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.42 Mbit/s
95th percentile per-packet one-way delay: 50.564 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 55.85 Mbit/s
95th percentile per-packet one-way delay: 50.592 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 50.541 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 50.532 ms
Loss rate: 1.53%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 19:44:47

End at: 2017-11-21 19:45:17

Below is generated by plot.py at 2017-11-22 00:41:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.85 Mbit/s

95th percentile per-packet one-way delay: 50.523 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 71.09 Mbit/s

95th percentile per-packet one-way delay: 50.472 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 50.478 ms

Loss rate: 0.54%

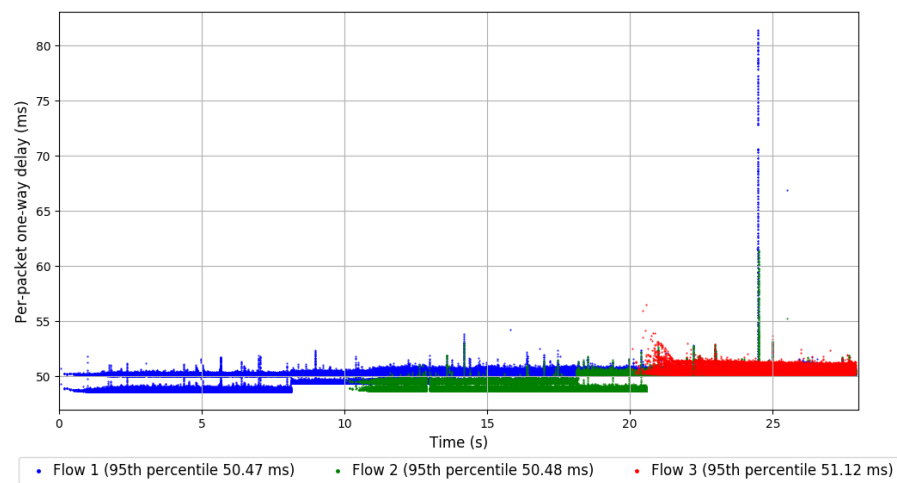
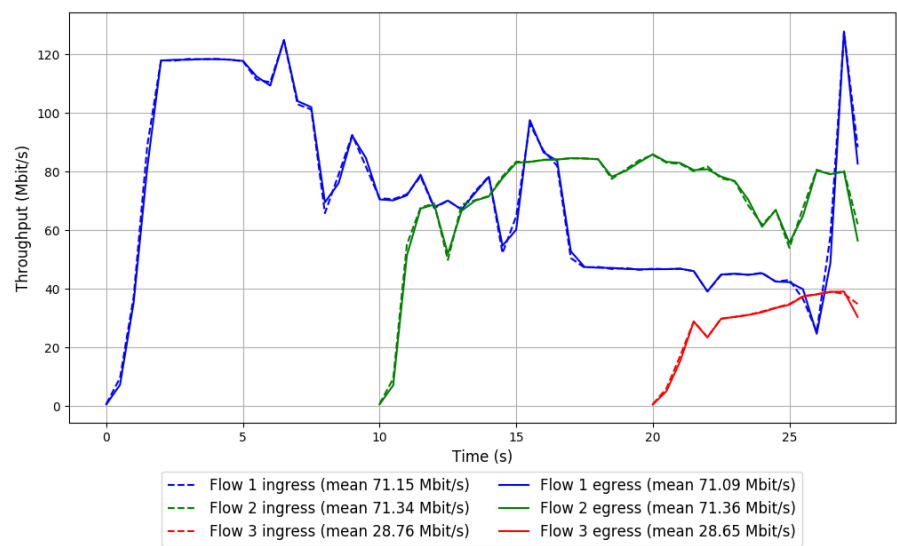
-- Flow 3:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 51.118 ms

Loss rate: 1.67%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 19:57:31

End at: 2017-11-21 19:58:01

Below is generated by plot.py at 2017-11-22 00:41:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.68 Mbit/s

95th percentile per-packet one-way delay: 50.634 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 57.56 Mbit/s

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

Loss rate: 0.11%

-- Flow 2:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 50.520 ms

Loss rate: 0.48%

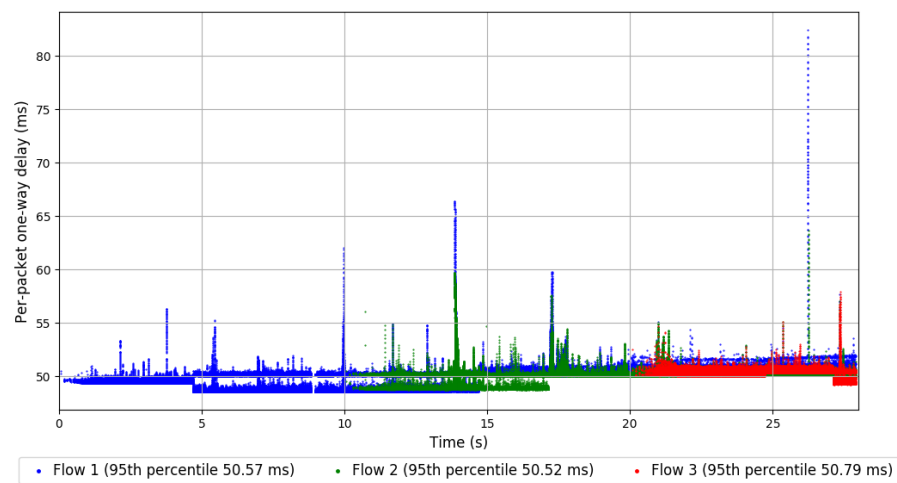
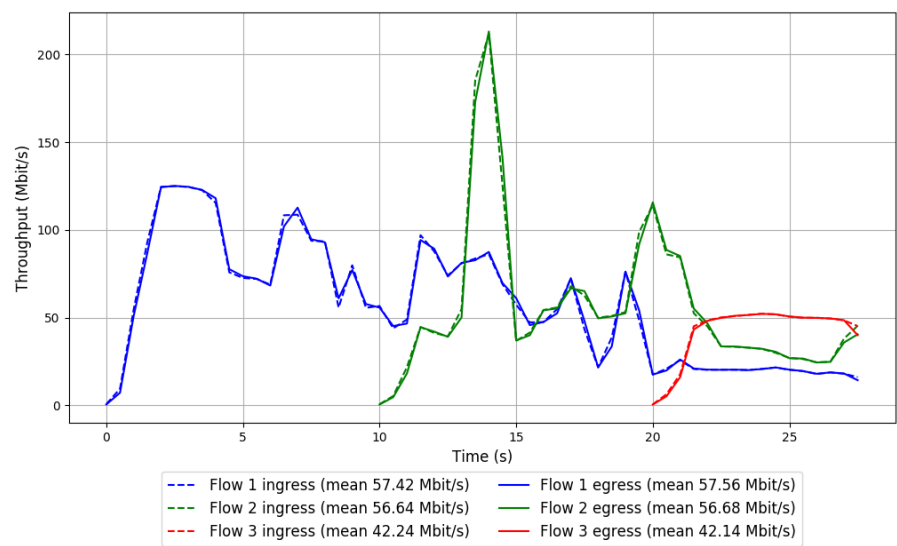
-- Flow 3:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 50.789 ms

Loss rate: 1.51%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 20:09:56

End at: 2017-11-21 20:10:26

Below is generated by plot.py at 2017-11-22 00:41:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.80 Mbit/s

95th percentile per-packet one-way delay: 50.234 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 74.25 Mbit/s

95th percentile per-packet one-way delay: 50.231 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 50.225 ms

Loss rate: 0.43%

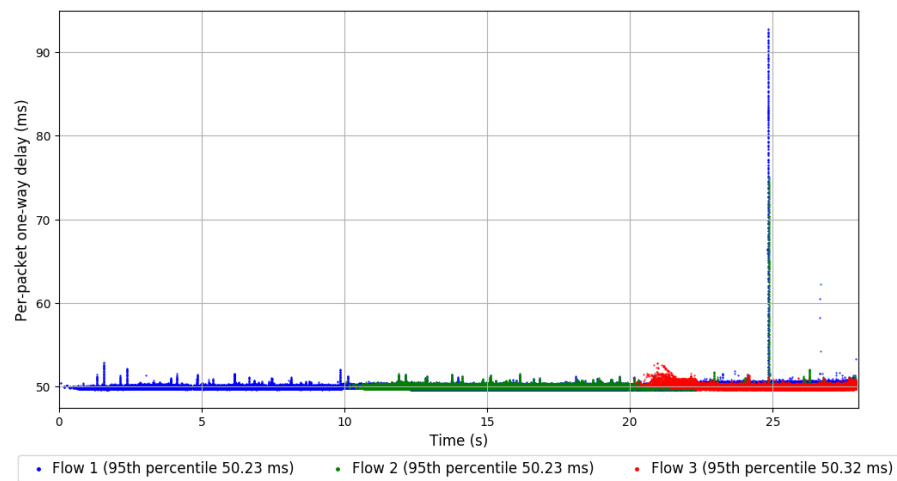
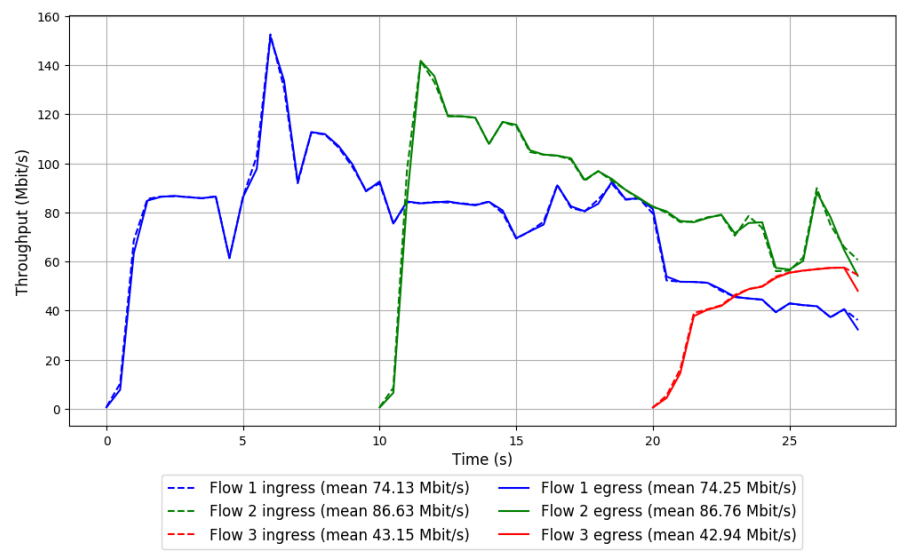
-- Flow 3:

Average throughput: 42.94 Mbit/s

95th percentile per-packet one-way delay: 50.323 ms

Loss rate: 1.79%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 20:22:33

End at: 2017-11-21 20:23:03

Below is generated by plot.py at 2017-11-22 00:42:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.38 Mbit/s

95th percentile per-packet one-way delay: 50.050 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 74.78 Mbit/s

95th percentile per-packet one-way delay: 50.070 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 50.025 ms

Loss rate: 0.60%

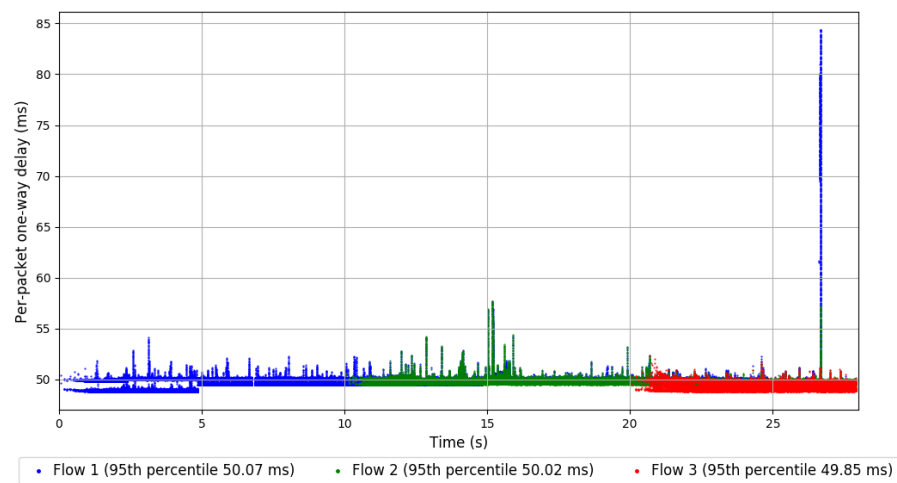
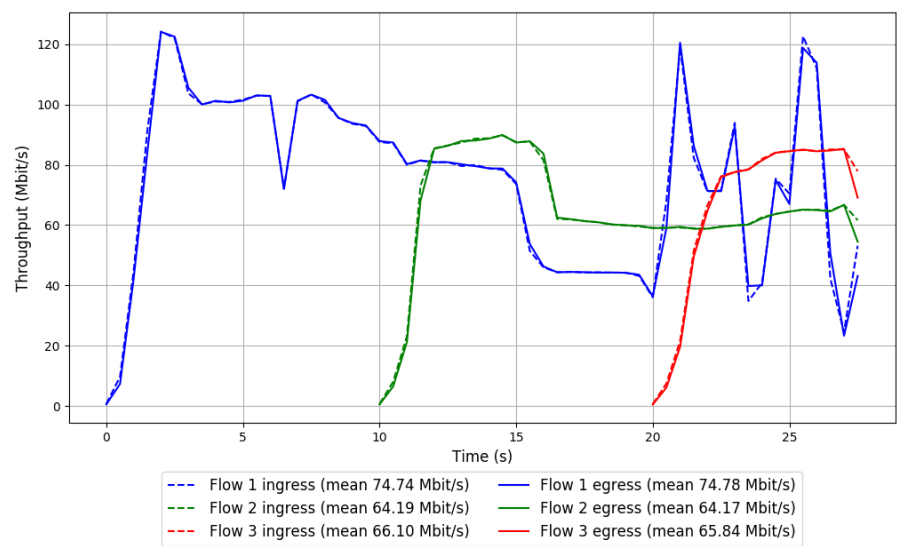
-- Flow 3:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 49.851 ms

Loss rate: 1.65%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 20:34:50

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

Below is generated by plot.py at 2017-11-22 00:42:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.55 Mbit/s

95th percentile per-packet one-way delay: 50.220 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 50.308 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 70.81 Mbit/s

95th percentile per-packet one-way delay: 49.858 ms

Loss rate: 0.35%

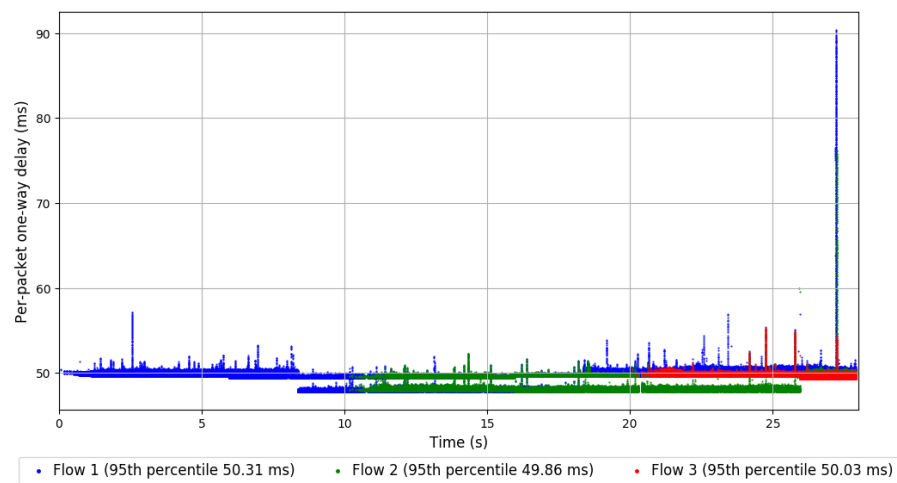
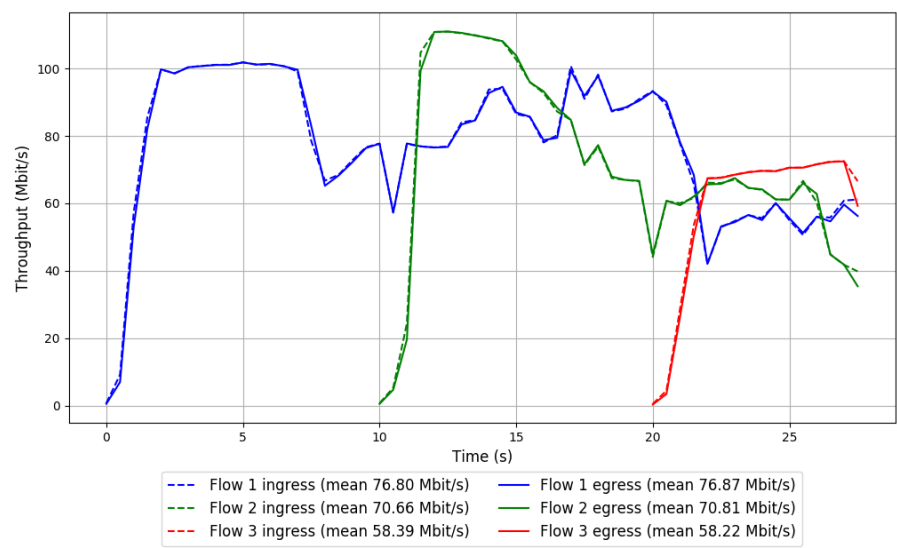
-- Flow 3:

Average throughput: 58.22 Mbit/s

95th percentile per-packet one-way delay: 50.026 ms

Loss rate: 1.58%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 20:47:22

End at: 2017-11-21 20:47:52

Below is generated by plot.py at 2017-11-22 00:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.16 Mbit/s

95th percentile per-packet one-way delay: 49.975 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 49.975 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 49.986 ms

Loss rate: 0.28%

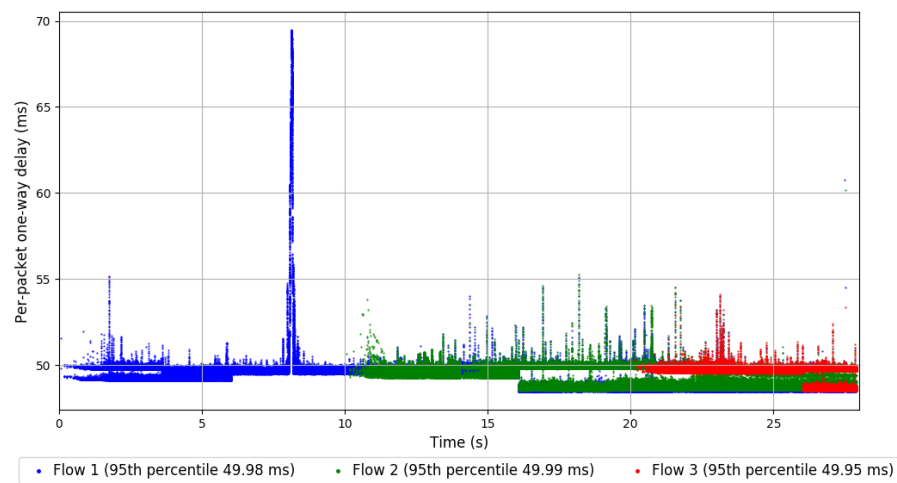
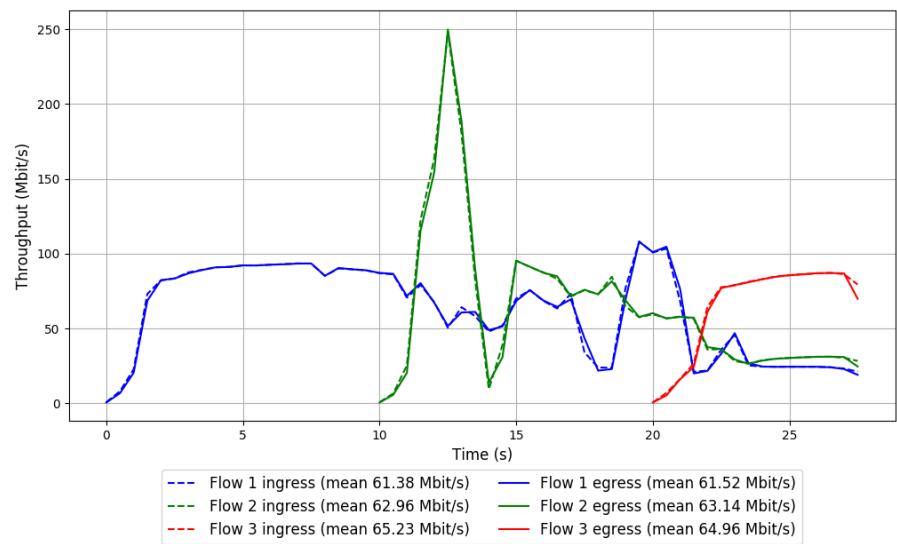
-- Flow 3:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 49.949 ms

Loss rate: 1.71%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 20:59:42

End at: 2017-11-21 21:00:12

Below is generated by plot.py at 2017-11-22 00:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.27 Mbit/s

95th percentile per-packet one-way delay: 49.711 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 81.45 Mbit/s

95th percentile per-packet one-way delay: 49.639 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 49.817 ms

Loss rate: 0.48%

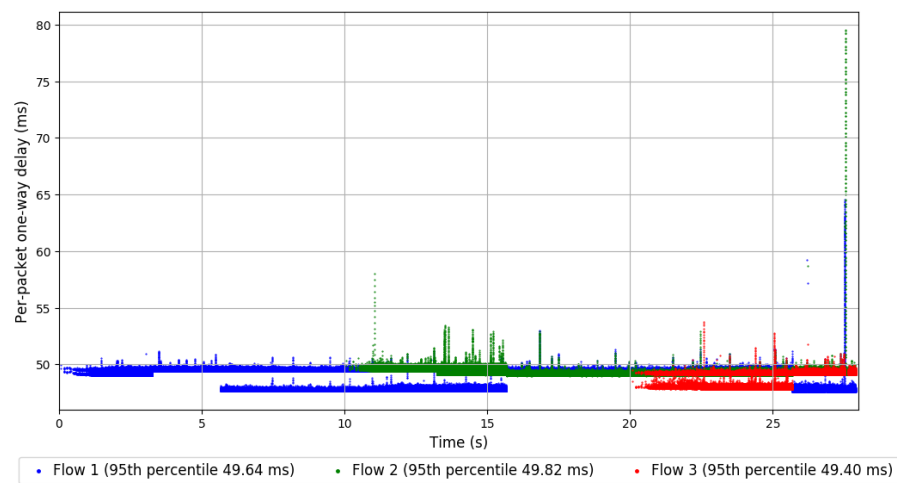
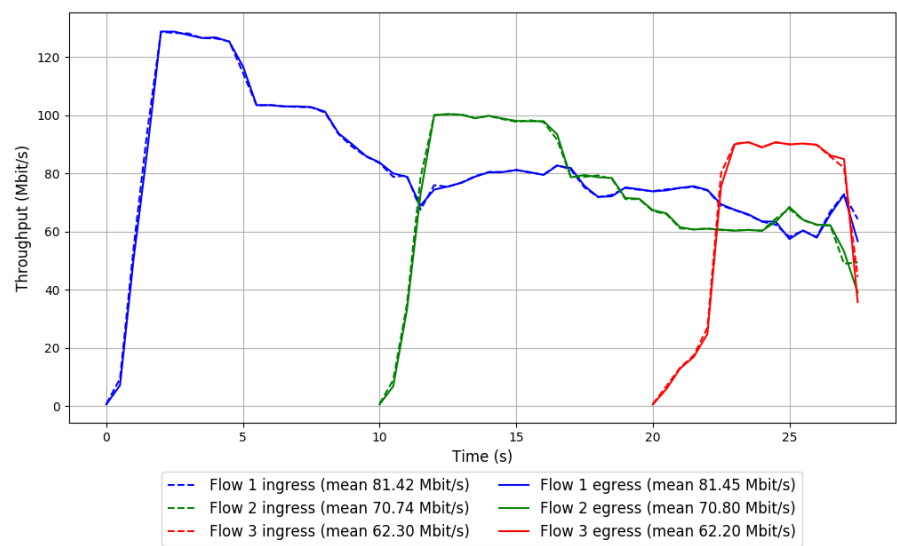
-- Flow 3:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 49.400 ms

Loss rate: 1.41%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

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

End at: 2017-11-21 21:12:50

Below is generated by plot.py at 2017-11-22 00:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.00 Mbit/s

95th percentile per-packet one-way delay: 49.872 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: 49.849 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 49.935 ms

Loss rate: 0.33%

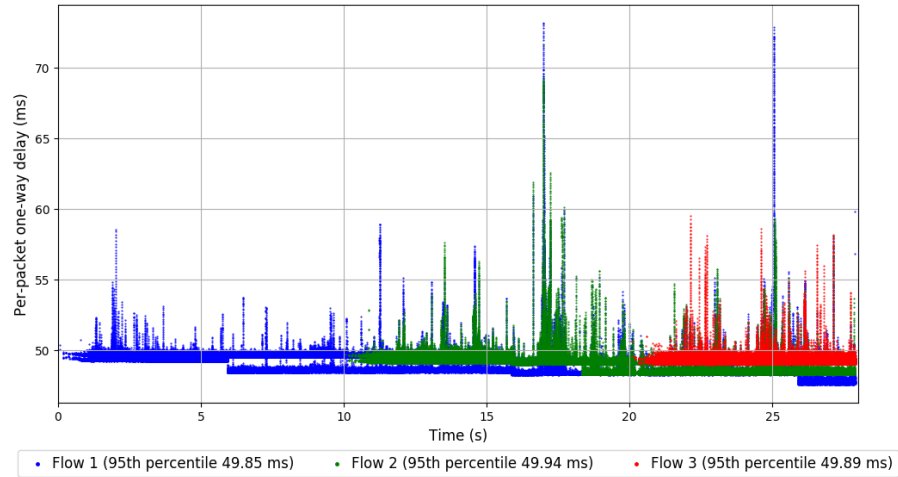
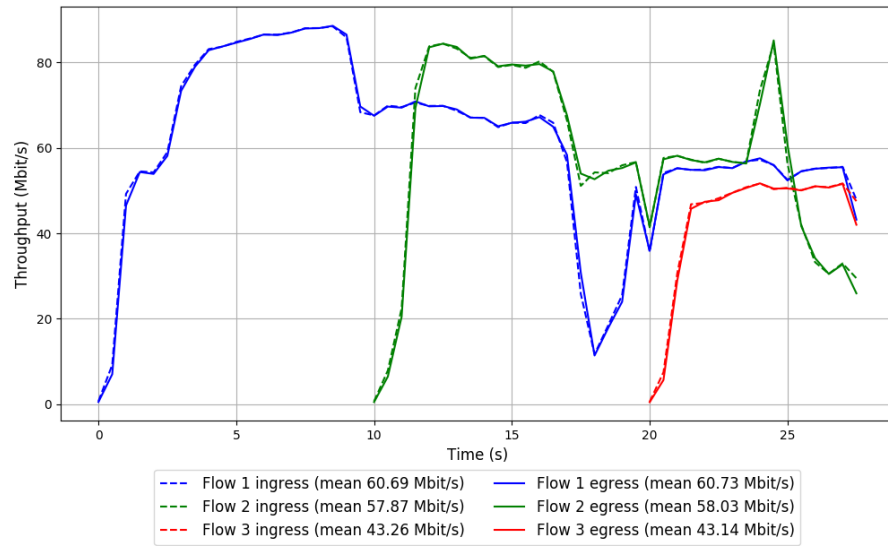
-- Flow 3:

Average throughput: 43.14 Mbit/s

95th percentile per-packet one-way delay: 49.889 ms

Loss rate: 1.57%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 21:24:42

End at: 2017-11-21 21:25:12

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.20 Mbit/s

95th percentile per-packet one-way delay: 49.549 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 76.88 Mbit/s

95th percentile per-packet one-way delay: 49.476 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 49.670 ms

Loss rate: 0.40%

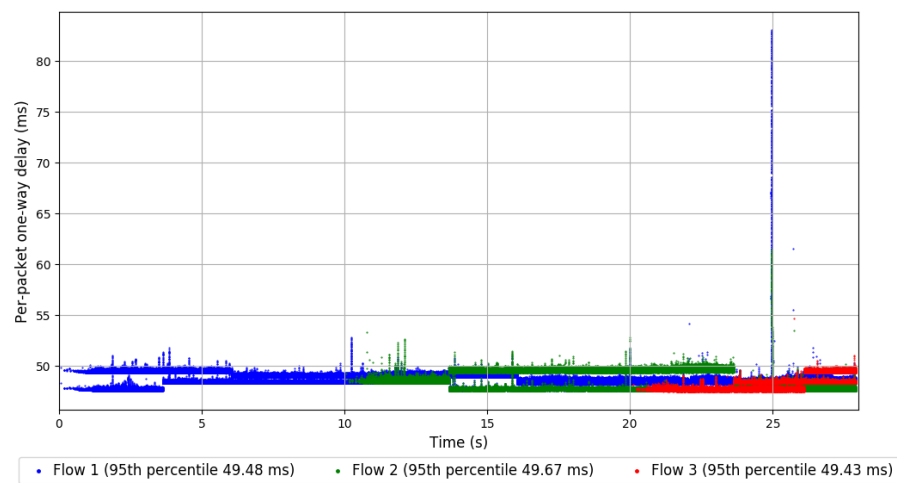
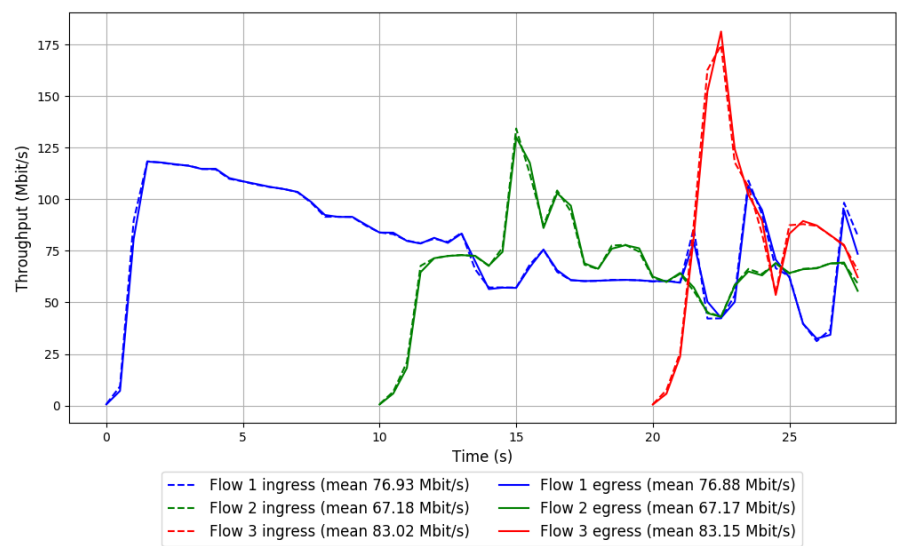
-- Flow 3:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: 49.426 ms

Loss rate: 0.84%

Run 10: Report of Copa — Data Link

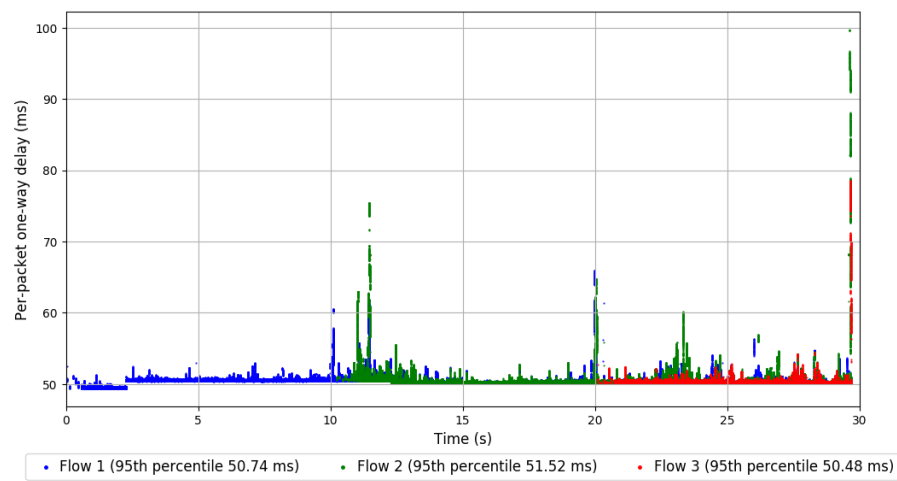
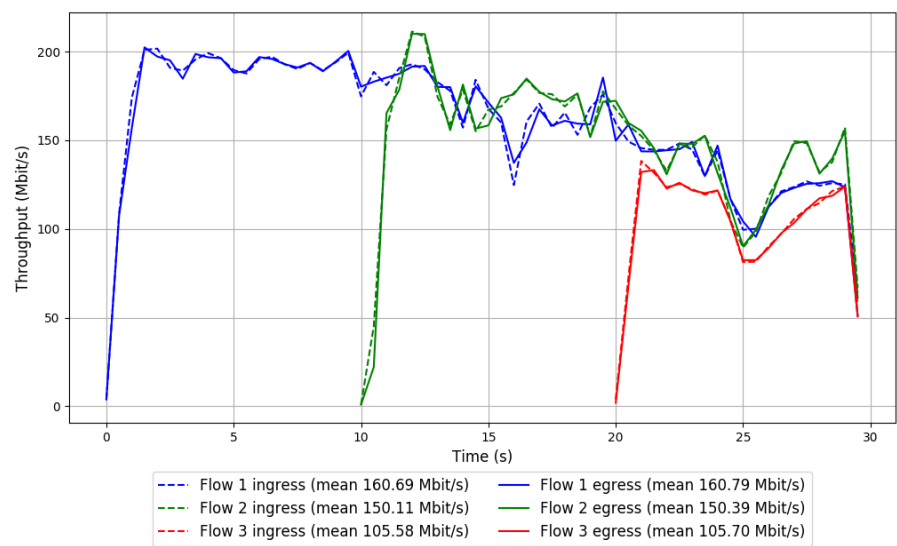


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 19:35:25
End at: 2017-11-21 19:35:55

# Below is generated by plot.py at 2017-11-22 00:46:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.66 Mbit/s
95th percentile per-packet one-way delay: 50.861 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 160.79 Mbit/s
95th percentile per-packet one-way delay: 50.738 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 150.39 Mbit/s
95th percentile per-packet one-way delay: 51.521 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 105.70 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.95%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 19:48:08

End at: 2017-11-21 19:48:38

Below is generated by plot.py at 2017-11-22 00:47:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.80 Mbit/s

95th percentile per-packet one-way delay: 50.369 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 173.44 Mbit/s

95th percentile per-packet one-way delay: 50.375 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 162.35 Mbit/s

95th percentile per-packet one-way delay: 50.409 ms

Loss rate: 0.42%

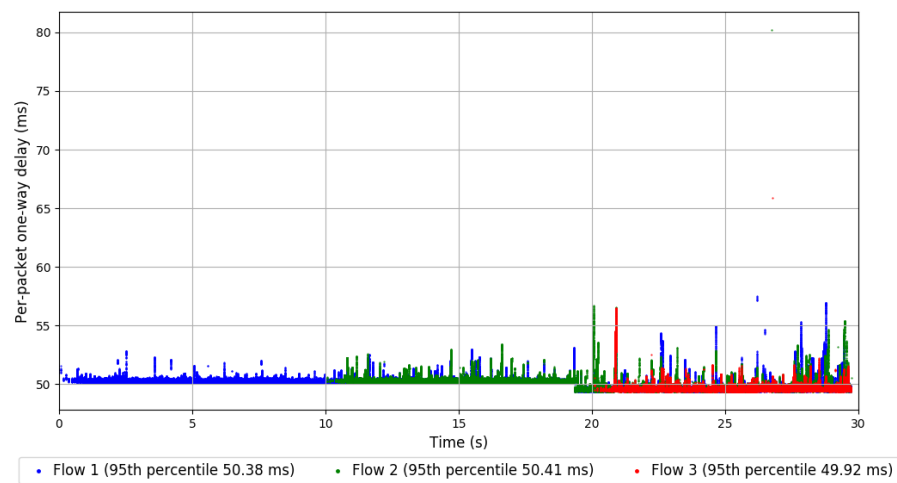
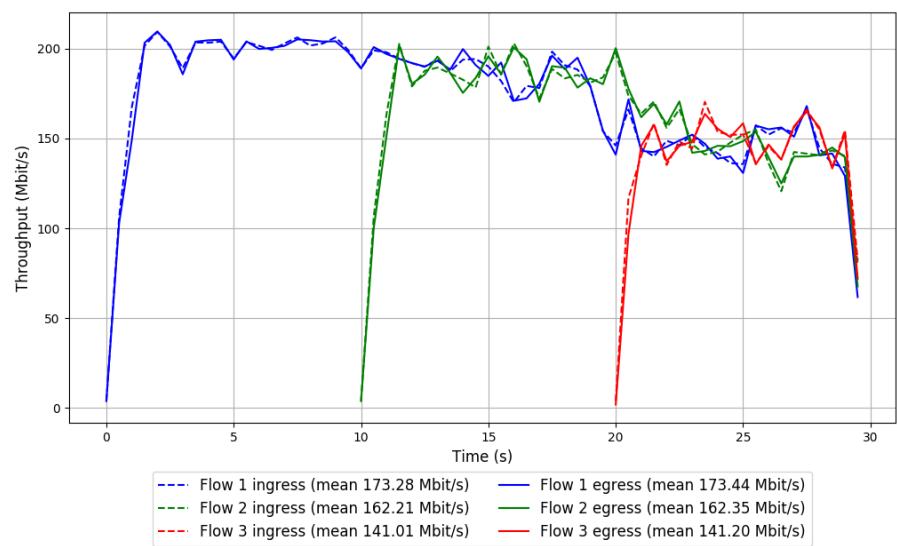
-- Flow 3:

Average throughput: 141.20 Mbit/s

95th percentile per-packet one-way delay: 49.919 ms

Loss rate: 0.92%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 20:00:44

End at: 2017-11-21 20:01:14

Below is generated by plot.py at 2017-11-22 00:48:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.67 Mbit/s

95th percentile per-packet one-way delay: 51.787 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 167.36 Mbit/s

95th percentile per-packet one-way delay: 51.637 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 156.29 Mbit/s

95th percentile per-packet one-way delay: 52.508 ms

Loss rate: 0.46%

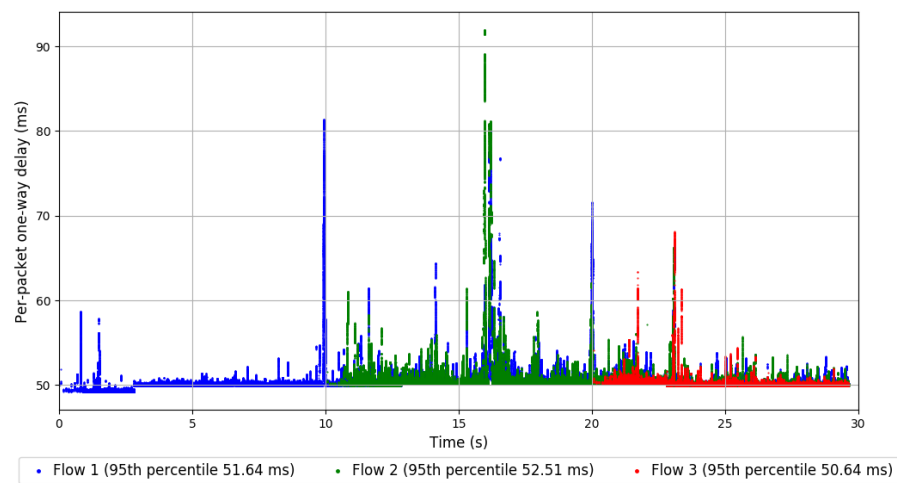
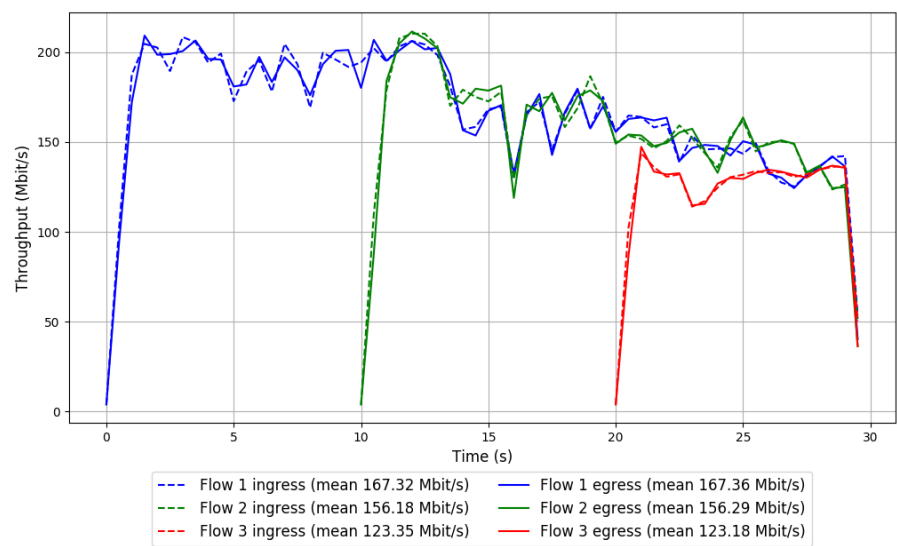
-- Flow 3:

Average throughput: 123.18 Mbit/s

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

Loss rate: 1.17%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 20:13:22

End at: 2017-11-21 20:13:52

Below is generated by plot.py at 2017-11-22 00:48:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.95 Mbit/s

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

Loss rate: 0.47%

-- Flow 1:

Average throughput: 168.81 Mbit/s

95th percentile per-packet one-way delay: 50.497 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 156.08 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.54%

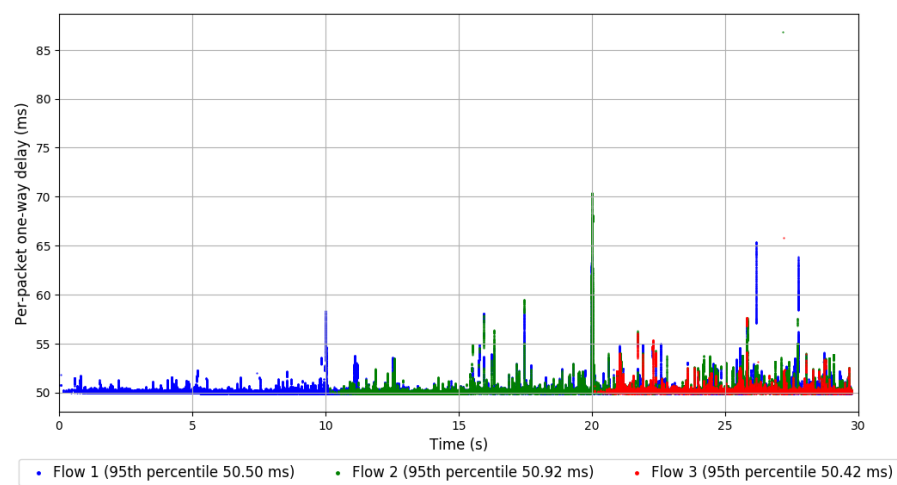
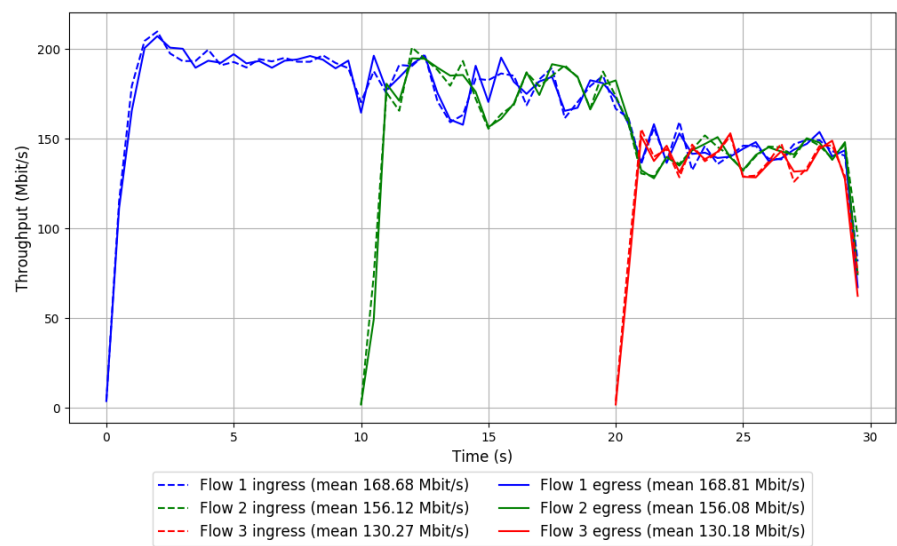
-- Flow 3:

Average throughput: 130.18 Mbit/s

95th percentile per-packet one-way delay: 50.416 ms

Loss rate: 1.09%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 20:25:51

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

Below is generated by plot.py at 2017-11-22 00:49:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.96 Mbit/s

95th percentile per-packet one-way delay: 50.825 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 170.92 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 162.31 Mbit/s

95th percentile per-packet one-way delay: 51.304 ms

Loss rate: 0.46%

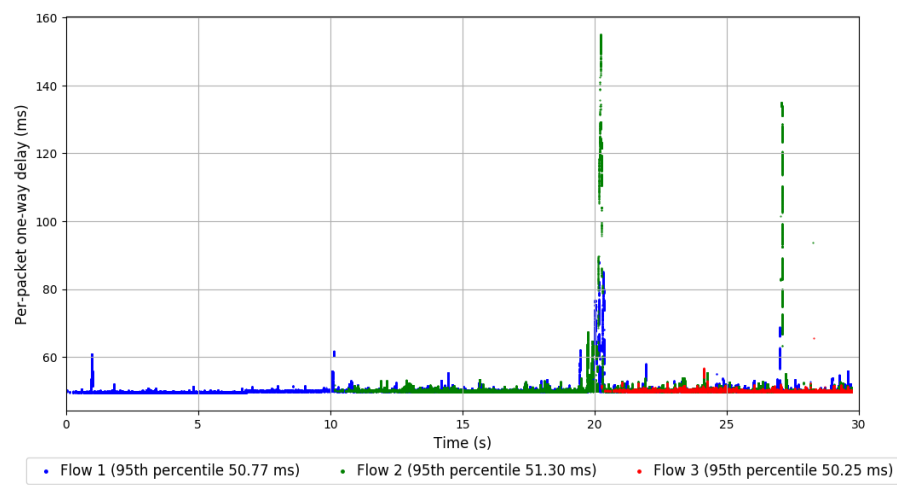
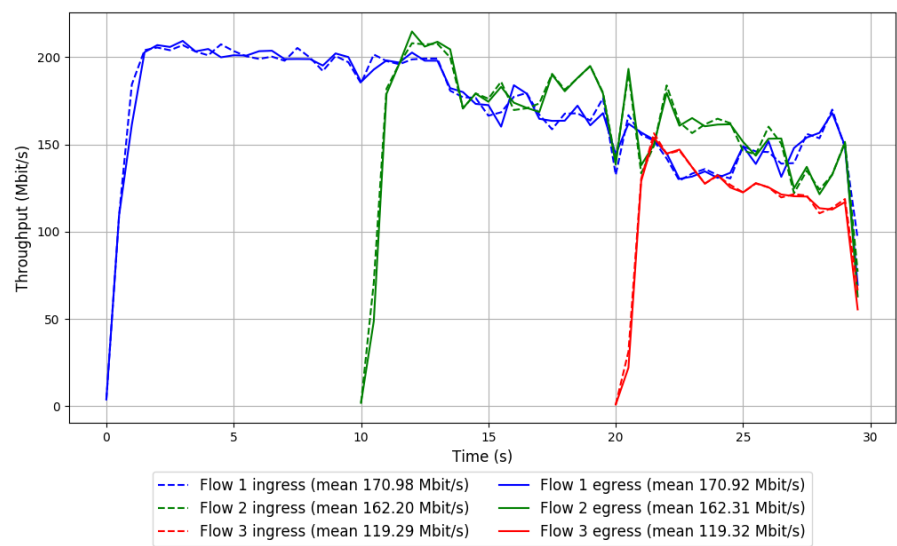
-- Flow 3:

Average throughput: 119.32 Mbit/s

95th percentile per-packet one-way delay: 50.250 ms

Loss rate: 1.06%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 20:38:15

End at: 2017-11-21 20:38:45

Below is generated by plot.py at 2017-11-22 00:49:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.58 Mbit/s

95th percentile per-packet one-way delay: 50.292 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 171.50 Mbit/s

95th percentile per-packet one-way delay: 50.162 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 157.79 Mbit/s

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

Loss rate: 0.51%

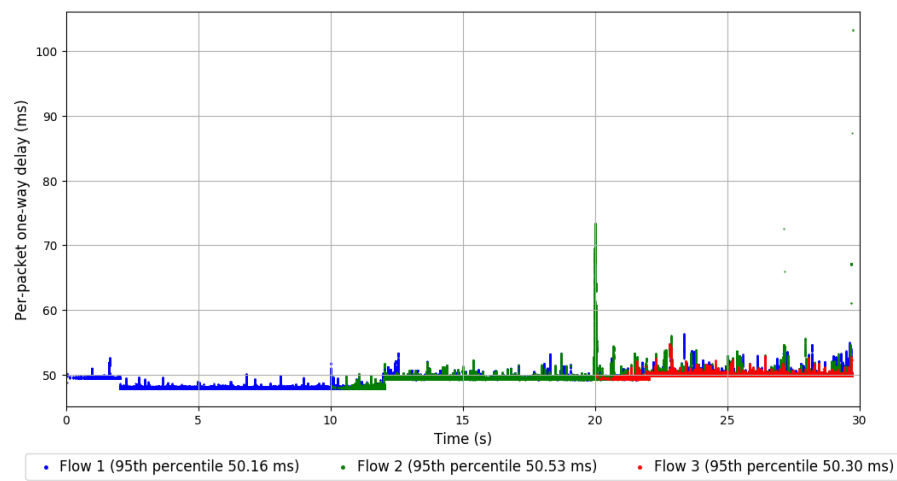
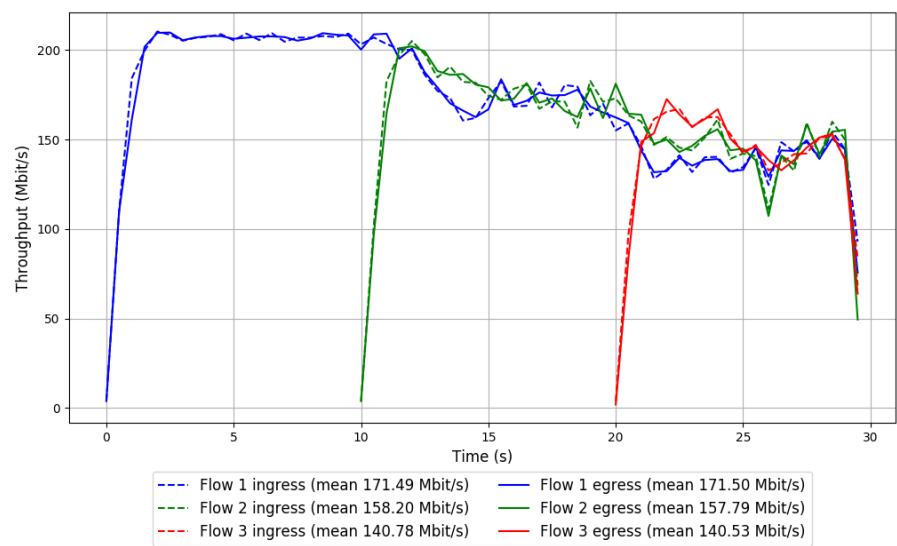
-- Flow 3:

Average throughput: 140.53 Mbit/s

95th percentile per-packet one-way delay: 50.303 ms

Loss rate: 1.19%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 20:50:39

End at: 2017-11-21 20:51:09

Below is generated by plot.py at 2017-11-22 00:50:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.53 Mbit/s

95th percentile per-packet one-way delay: 50.114 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 174.07 Mbit/s

95th percentile per-packet one-way delay: 50.060 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 169.67 Mbit/s

95th percentile per-packet one-way delay: 50.473 ms

Loss rate: 0.53%

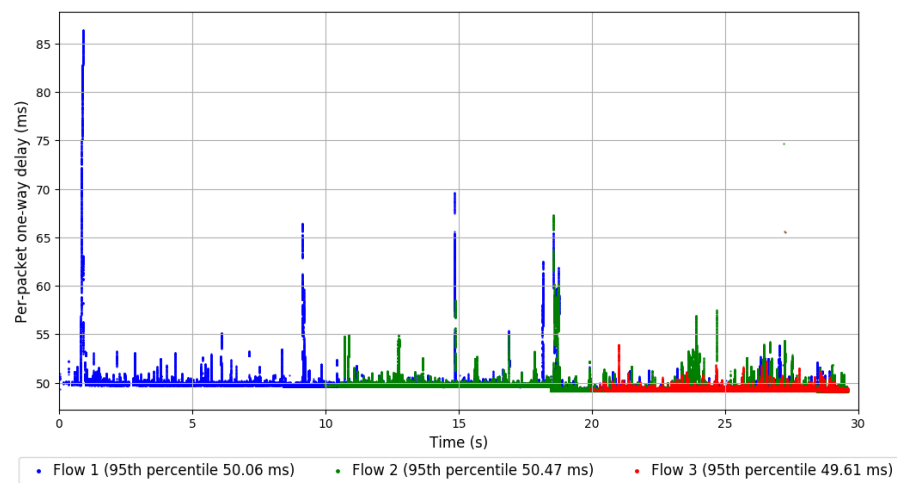
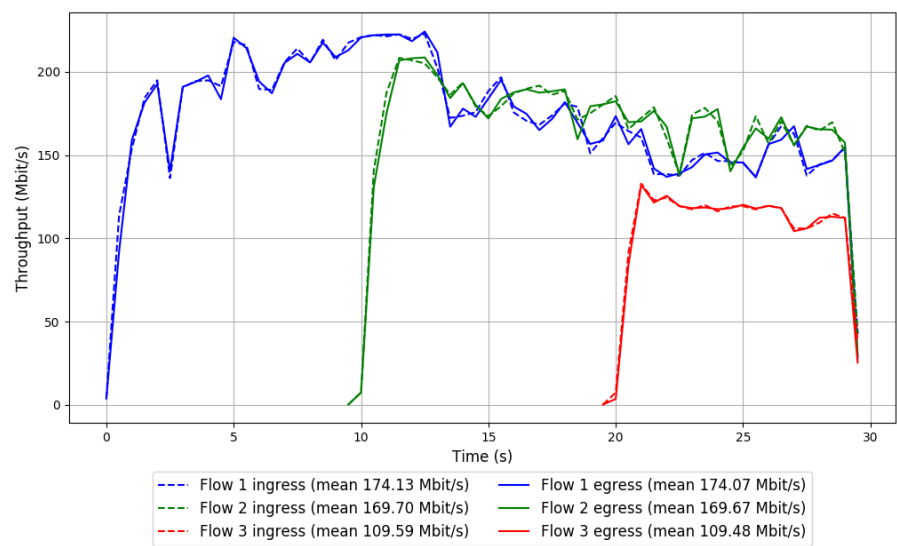
-- Flow 3:

Average throughput: 109.48 Mbit/s

95th percentile per-packet one-way delay: 49.613 ms

Loss rate: 1.14%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 21:03:04

End at: 2017-11-21 21:03:34

Below is generated by plot.py at 2017-11-22 00:51:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.08 Mbit/s

95th percentile per-packet one-way delay: 49.866 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 175.53 Mbit/s

95th percentile per-packet one-way delay: 49.911 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 160.47 Mbit/s

95th percentile per-packet one-way delay: 49.914 ms

Loss rate: 0.45%

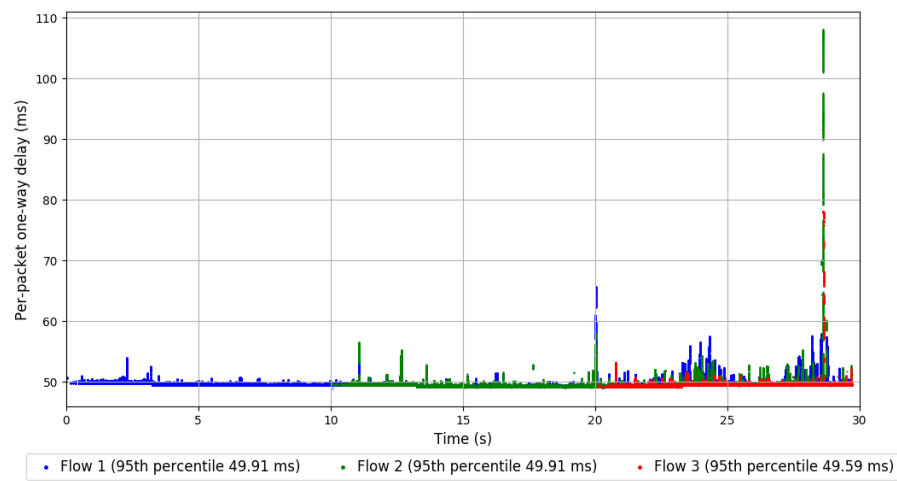
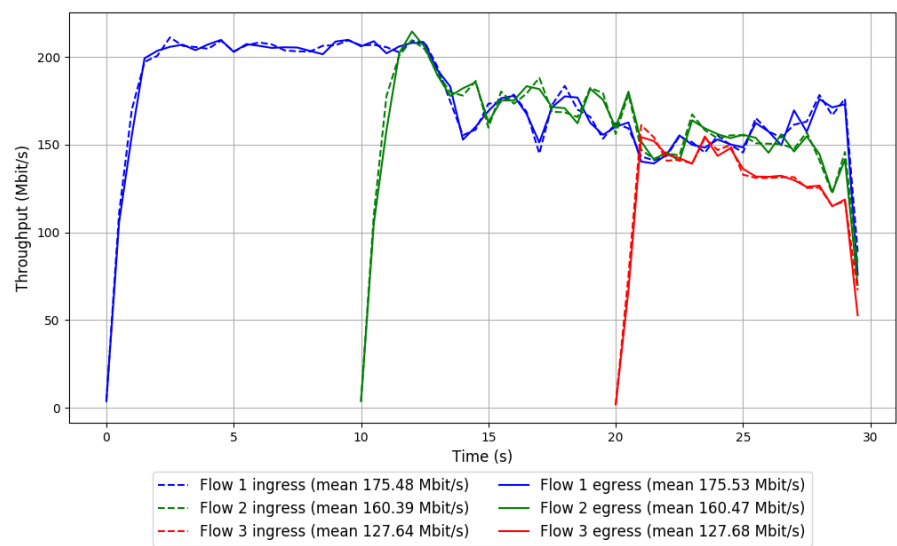
-- Flow 3:

Average throughput: 127.68 Mbit/s

95th percentile per-packet one-way delay: 49.593 ms

Loss rate: 1.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 21:15:34

End at: 2017-11-21 21:16:04

Below is generated by plot.py at 2017-11-22 00:52:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.44 Mbit/s

95th percentile per-packet one-way delay: 51.240 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 175.37 Mbit/s

95th percentile per-packet one-way delay: 51.355 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 162.70 Mbit/s

95th percentile per-packet one-way delay: 51.403 ms

Loss rate: 0.12%

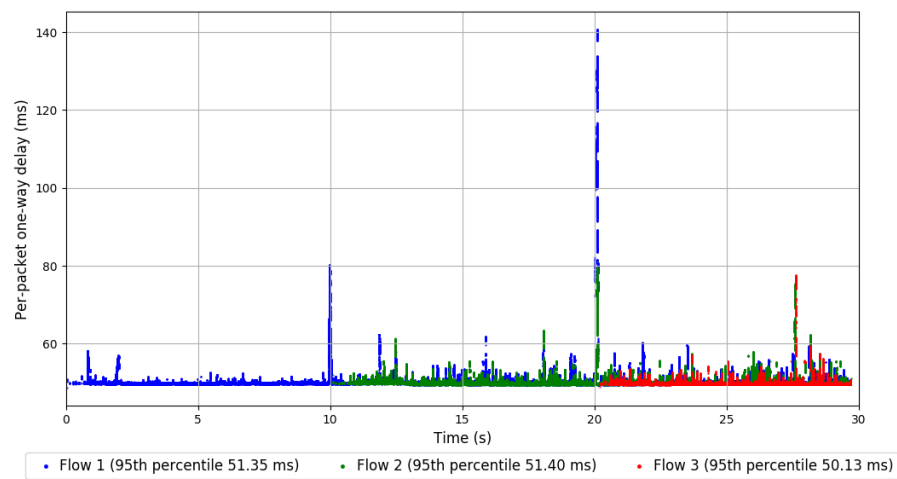
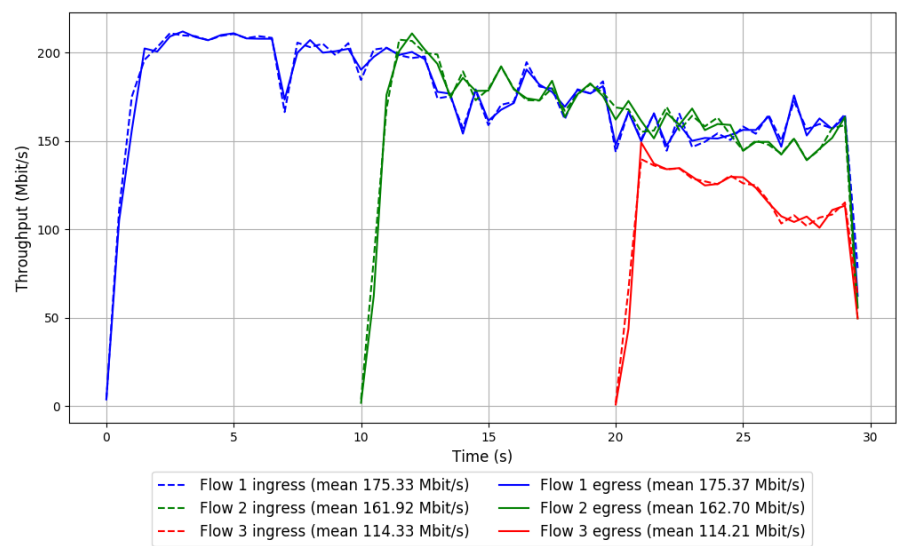
-- Flow 3:

Average throughput: 114.21 Mbit/s

95th percentile per-packet one-way delay: 50.132 ms

Loss rate: 1.18%

Run 9: Report of Indigo — Data Link

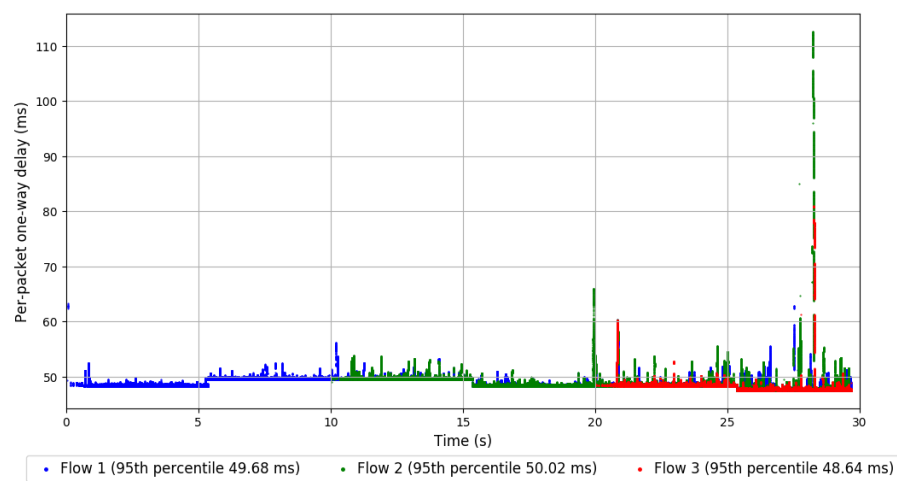
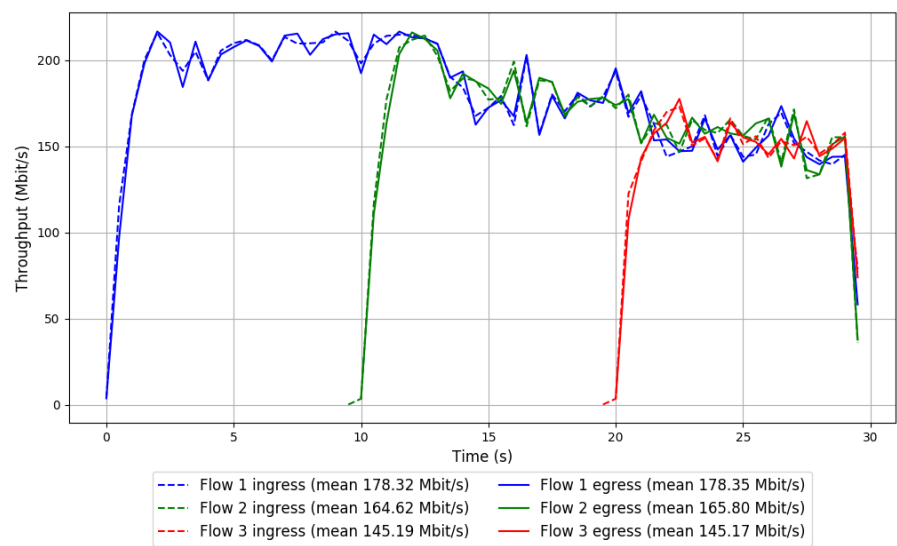


```
Run 10: Statistics of Indigo

Start at: 2017-11-21 21:28:12
End at: 2017-11-21 21:28:42

# Below is generated by plot.py at 2017-11-22 00:53:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.12 Mbit/s
95th percentile per-packet one-way delay: 49.701 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 178.35 Mbit/s
95th percentile per-packet one-way delay: 49.676 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 165.80 Mbit/s
95th percentile per-packet one-way delay: 50.016 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 145.17 Mbit/s
95th percentile per-packet one-way delay: 48.636 ms
Loss rate: 0.68%
```

Run 10: Report of Indigo — Data Link

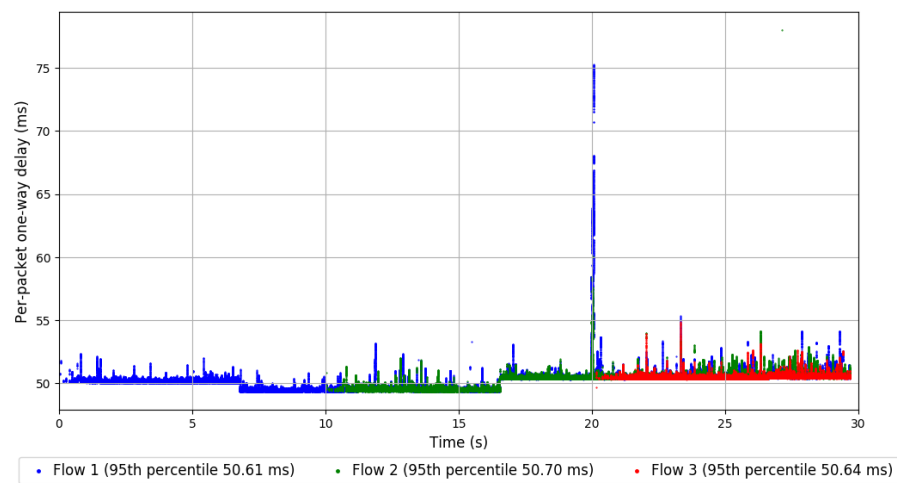
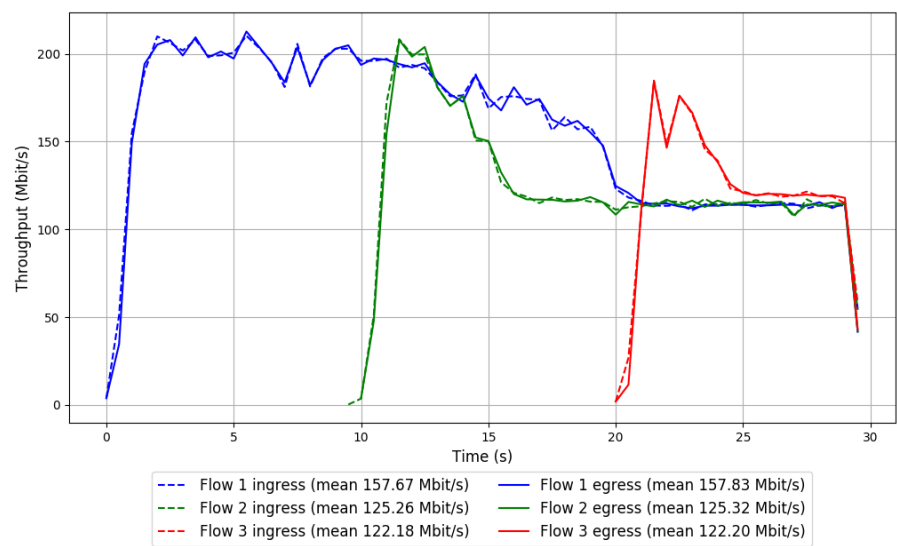


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 19:33:41
End at: 2017-11-21 19:34:11

# Below is generated by plot.py at 2017-11-22 00:53:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 280.26 Mbit/s
95th percentile per-packet one-way delay: 50.645 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 157.83 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 125.32 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 122.20 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 1.03%
```

Run 1: Report of Indigo-calib — Data Link

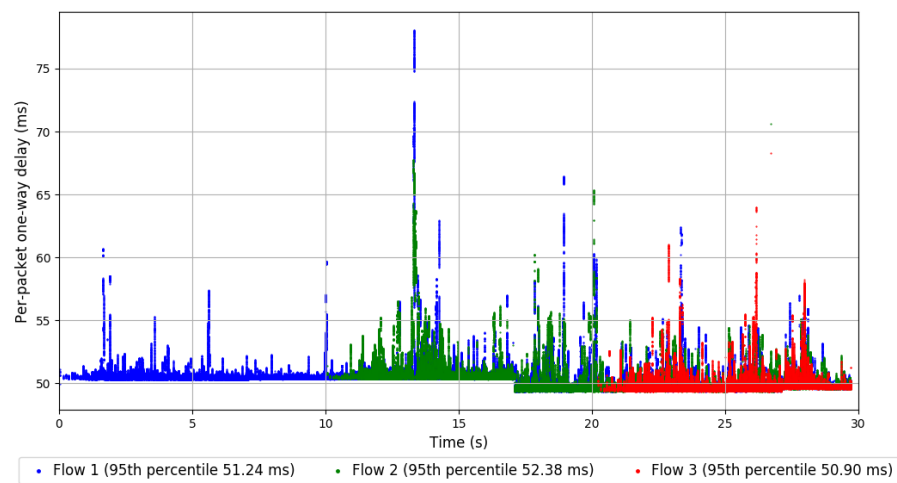
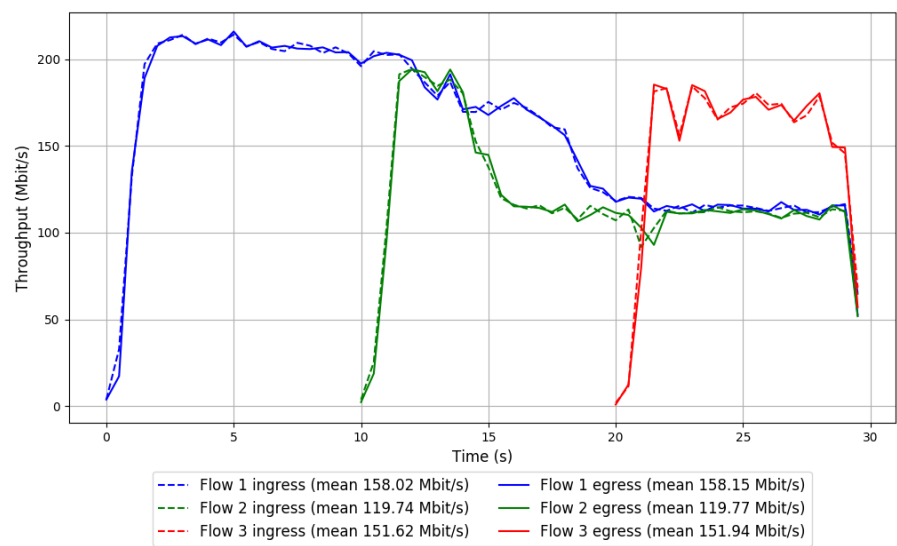


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 19:46:20
End at: 2017-11-21 19:46:50

# Below is generated by plot.py at 2017-11-22 00:53:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.11 Mbit/s
95th percentile per-packet one-way delay: 51.508 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 158.15 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 119.77 Mbit/s
95th percentile per-packet one-way delay: 52.379 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 151.94 Mbit/s
95th percentile per-packet one-way delay: 50.896 ms
Loss rate: 0.84%
```

Run 2: Report of Indigo-calib — Data Link

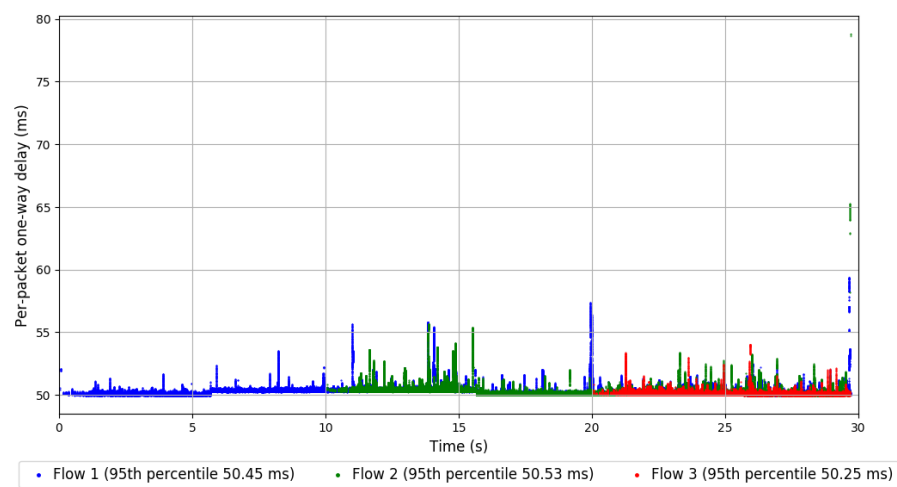
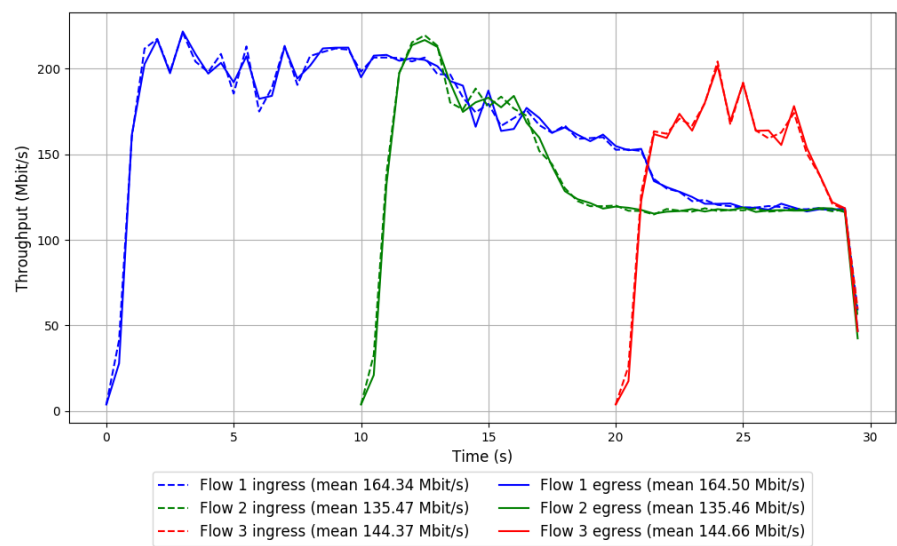


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 19:59:02
End at: 2017-11-21 19:59:32

# Below is generated by plot.py at 2017-11-22 00:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.18 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 164.50 Mbit/s
95th percentile per-packet one-way delay: 50.453 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 135.46 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 144.66 Mbit/s
95th percentile per-packet one-way delay: 50.248 ms
Loss rate: 0.87%
```


Run 3: Report of Indigo-calib — Data Link

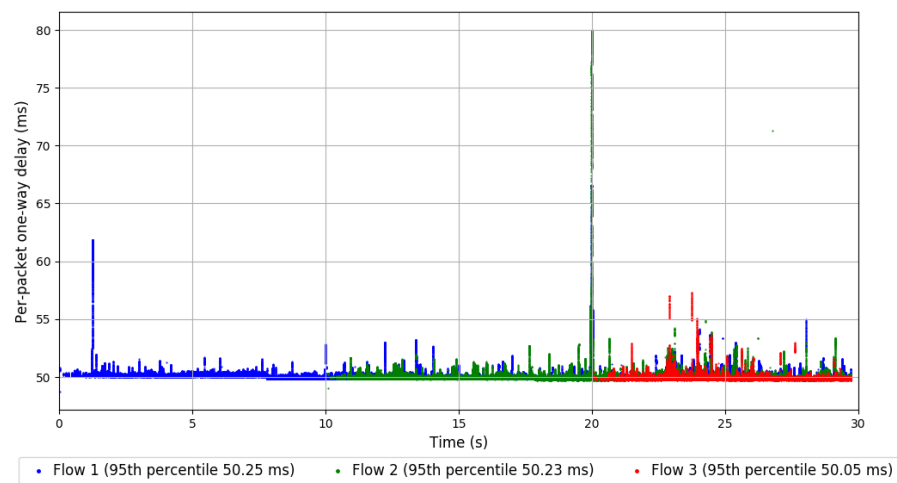
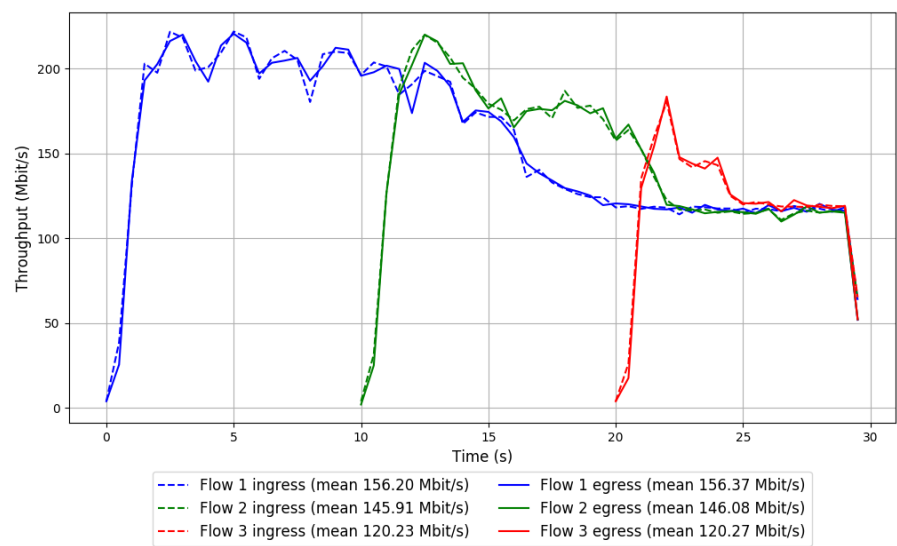


```
Run 4: Statistics of Indigo-calib

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

# Below is generated by plot.py at 2017-11-22 00:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 292.14 Mbit/s
95th percentile per-packet one-way delay: 50.225 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 156.37 Mbit/s
95th percentile per-packet one-way delay: 50.251 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 146.08 Mbit/s
95th percentile per-packet one-way delay: 50.226 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 120.27 Mbit/s
95th percentile per-packet one-way delay: 50.055 ms
Loss rate: 1.05%
```

Run 4: Report of Indigo-calib — Data Link

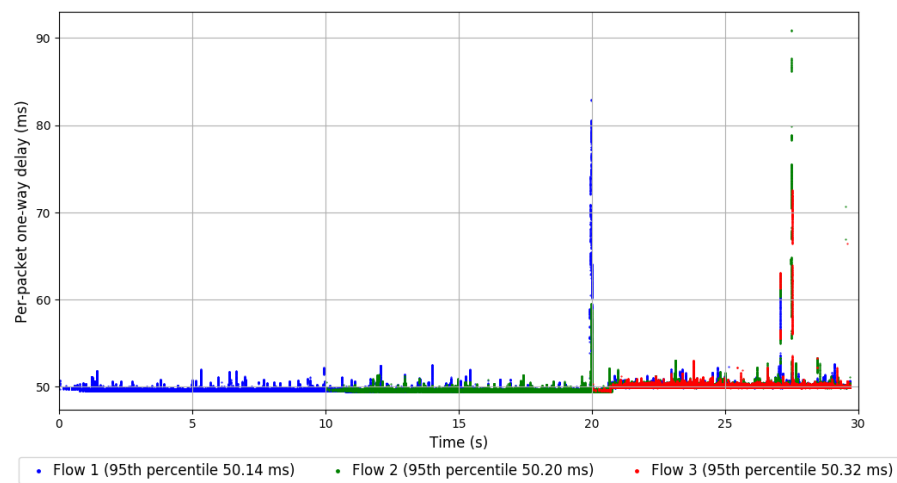
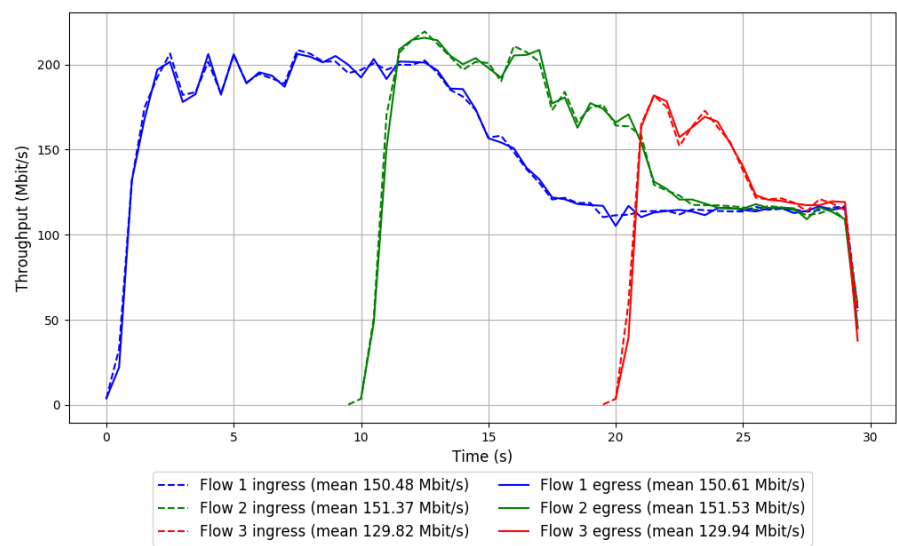


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 20:24:07
End at: 2017-11-21 20:24:37

# Below is generated by plot.py at 2017-11-22 00:55:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.42 Mbit/s
95th percentile per-packet one-way delay: 50.207 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 150.61 Mbit/s
95th percentile per-packet one-way delay: 50.136 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 151.53 Mbit/s
95th percentile per-packet one-way delay: 50.201 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 129.94 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.98%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 20:36:24

End at: 2017-11-21 20:36:54

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.56 Mbit/s

95th percentile per-packet one-way delay: 50.146 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 156.70 Mbit/s

95th percentile per-packet one-way delay: 50.036 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 146.06 Mbit/s

95th percentile per-packet one-way delay: 50.788 ms

Loss rate: 0.39%

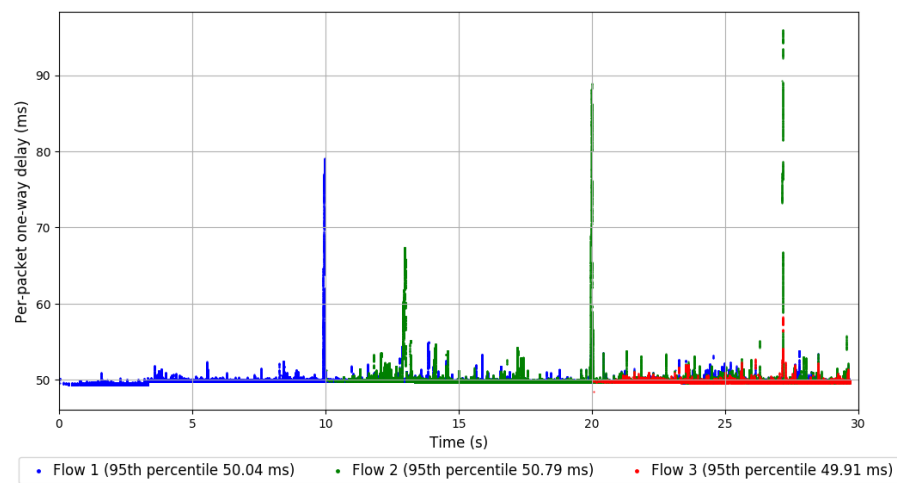
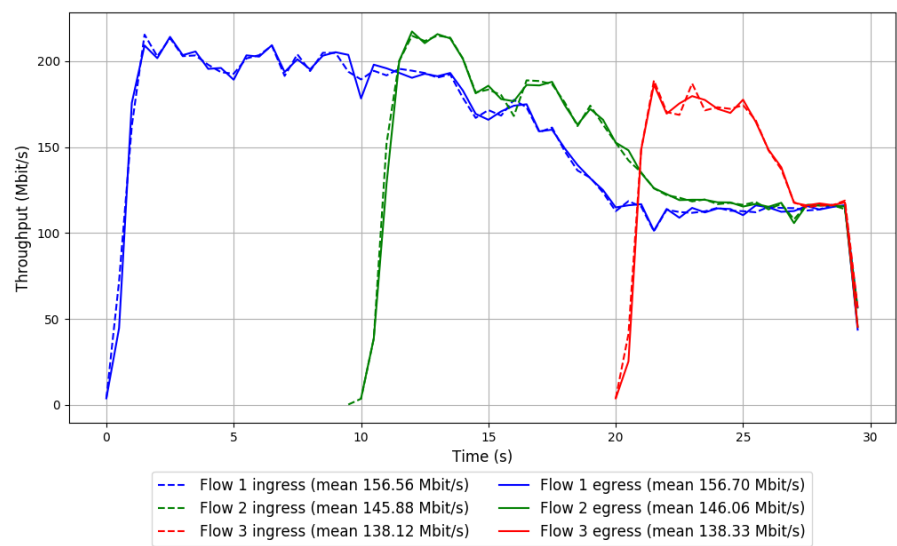
-- Flow 3:

Average throughput: 138.33 Mbit/s

95th percentile per-packet one-way delay: 49.908 ms

Loss rate: 0.87%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 20:48:54

End at: 2017-11-21 20:49:24

Below is generated by plot.py at 2017-11-22 00:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.44 Mbit/s

95th percentile per-packet one-way delay: 50.113 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 146.85 Mbit/s

95th percentile per-packet one-way delay: 50.108 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 133.95 Mbit/s

95th percentile per-packet one-way delay: 50.194 ms

Loss rate: 0.46%

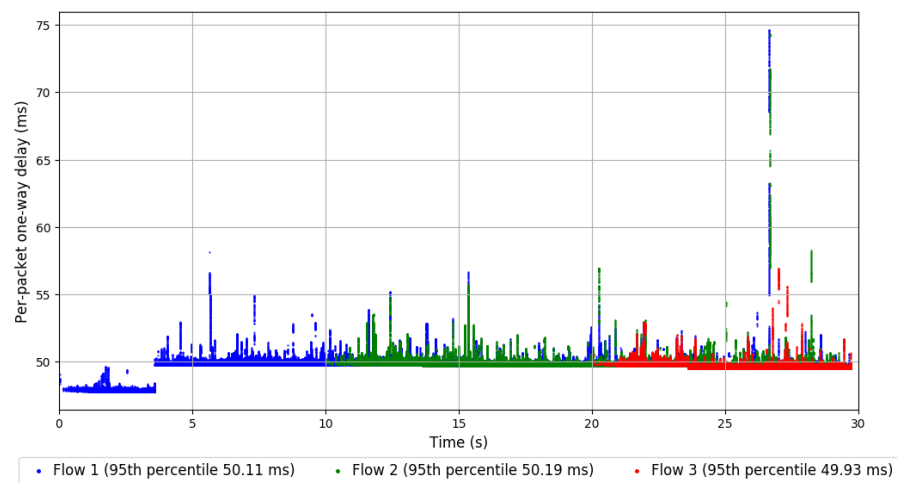
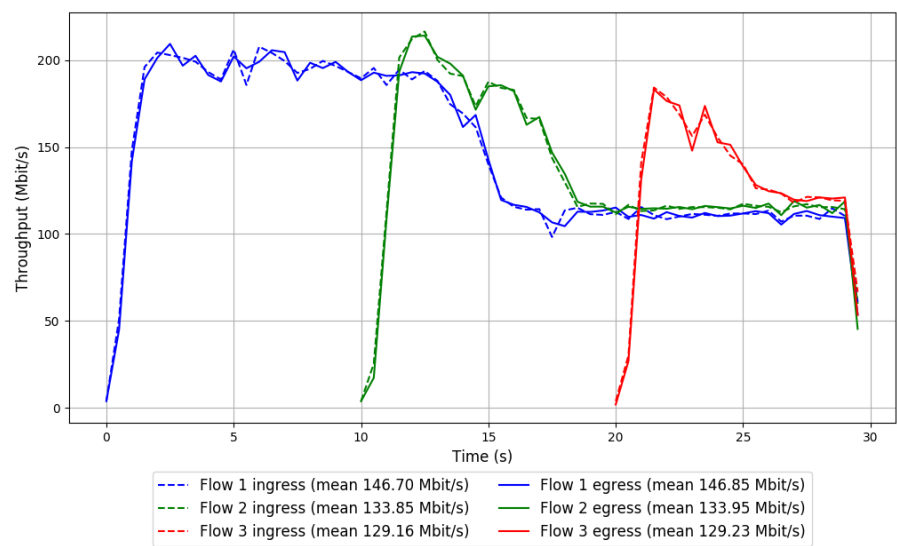
-- Flow 3:

Average throughput: 129.23 Mbit/s

95th percentile per-packet one-way delay: 49.930 ms

Loss rate: 0.96%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 21:01:17

End at: 2017-11-21 21:01:47

Below is generated by plot.py at 2017-11-22 00:56:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.81 Mbit/s

95th percentile per-packet one-way delay: 49.897 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 152.93 Mbit/s

95th percentile per-packet one-way delay: 49.787 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 140.39 Mbit/s

95th percentile per-packet one-way delay: 50.175 ms

Loss rate: 0.41%

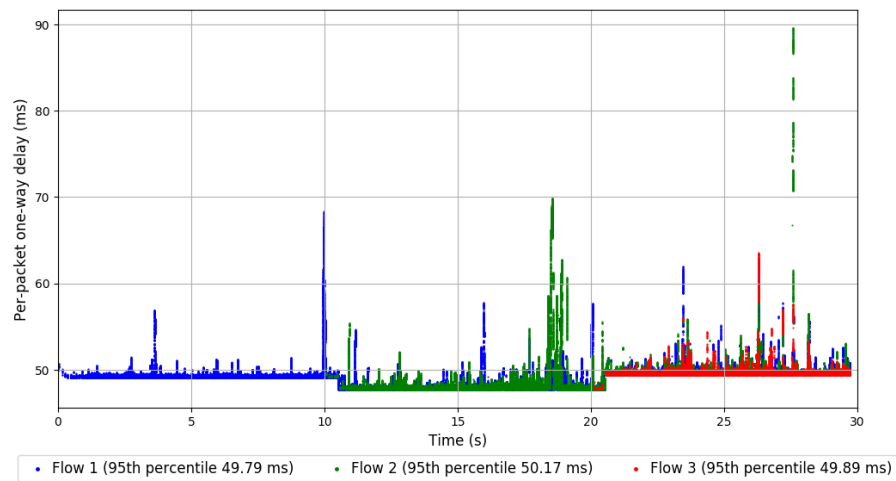
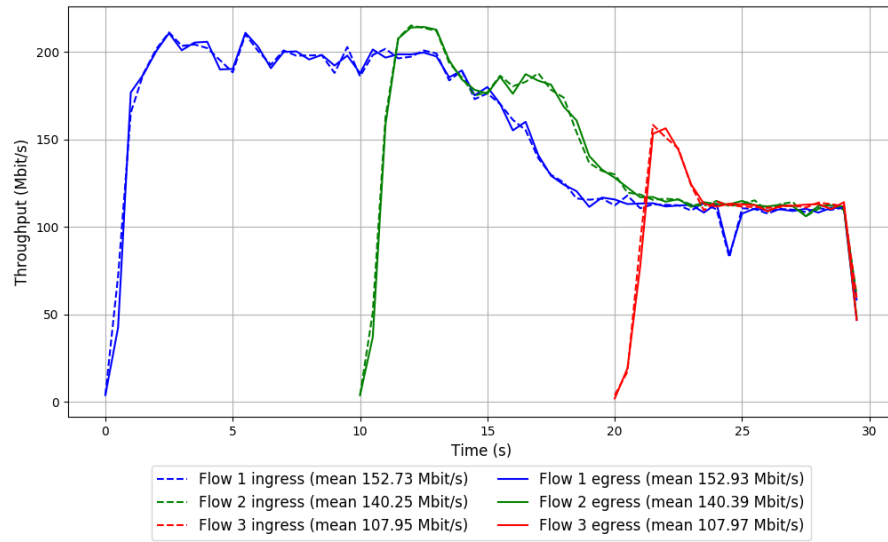
-- Flow 3:

Average throughput: 107.97 Mbit/s

95th percentile per-packet one-way delay: 49.893 ms

Loss rate: 1.11%

Run 8: Report of Indigo-calib — Data Link

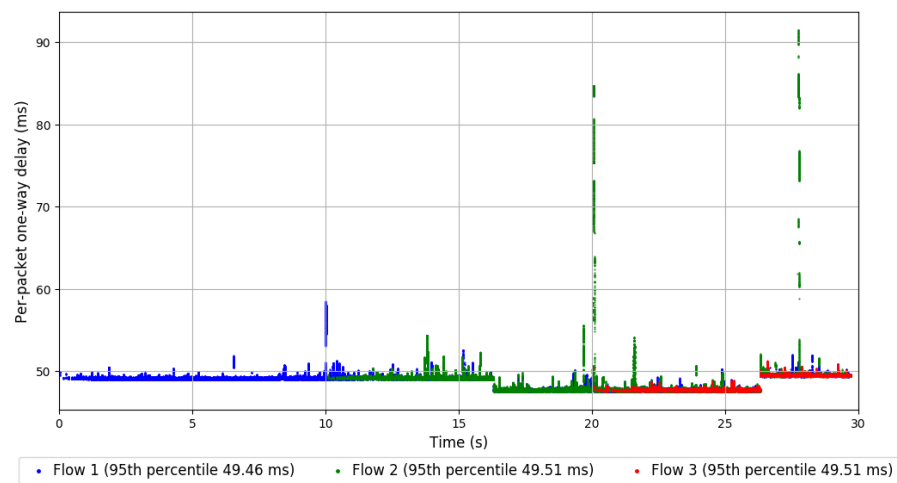
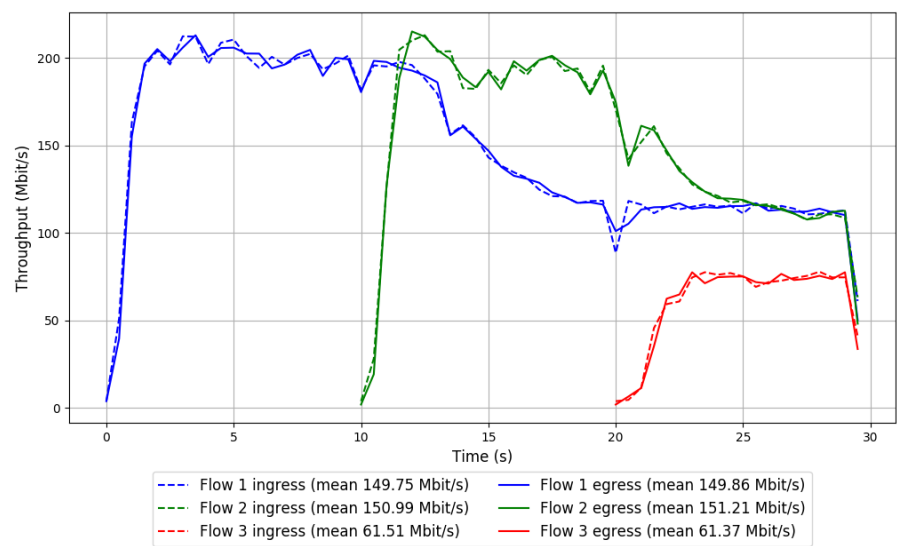


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 21:13:51
End at: 2017-11-21 21:14:21

# Below is generated by plot.py at 2017-11-22 00:57:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.78 Mbit/s
95th percentile per-packet one-way delay: 49.484 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 149.86 Mbit/s
95th percentile per-packet one-way delay: 49.458 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 151.21 Mbit/s
95th percentile per-packet one-way delay: 49.508 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 49.509 ms
Loss rate: 1.25%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 21:26:16

End at: 2017-11-21 21:26:46

Below is generated by plot.py at 2017-11-22 00:57:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.59 Mbit/s

95th percentile per-packet one-way delay: 49.794 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 150.92 Mbit/s

95th percentile per-packet one-way delay: 49.722 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 154.27 Mbit/s

95th percentile per-packet one-way delay: 49.920 ms

Loss rate: 0.39%

-- Flow 3:

Average throughput: 124.50 Mbit/s

95th percentile per-packet one-way delay: 49.810 ms

Loss rate: 0.97%

Run 10: Report of Indigo-calib — Data Link

