

Pantheon Report

Generated at 2017-11-17 04:59:16 (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.

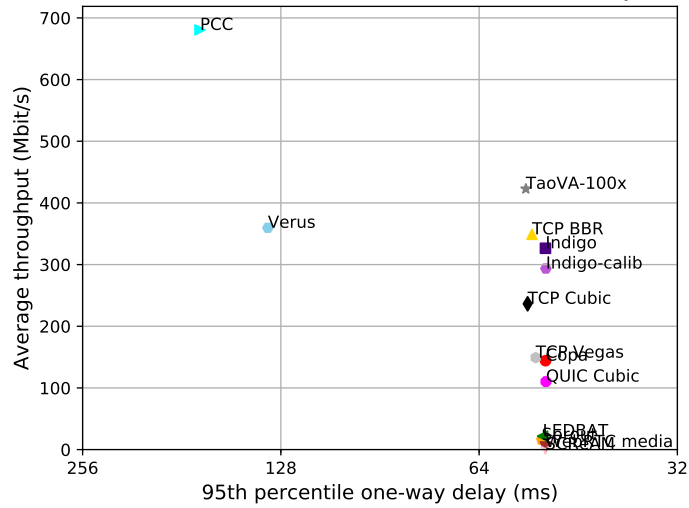
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

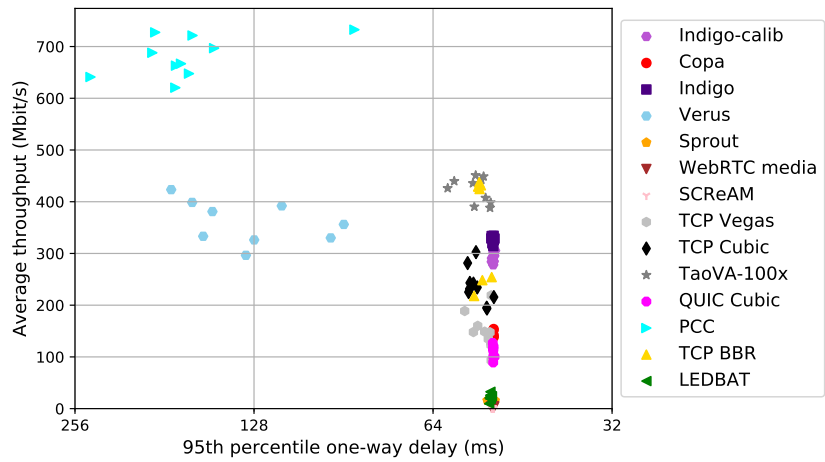
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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-quic @ 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



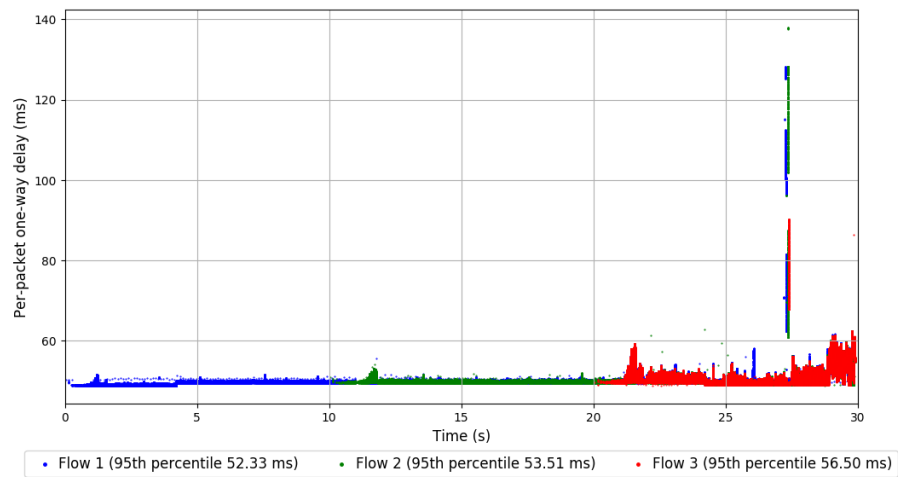
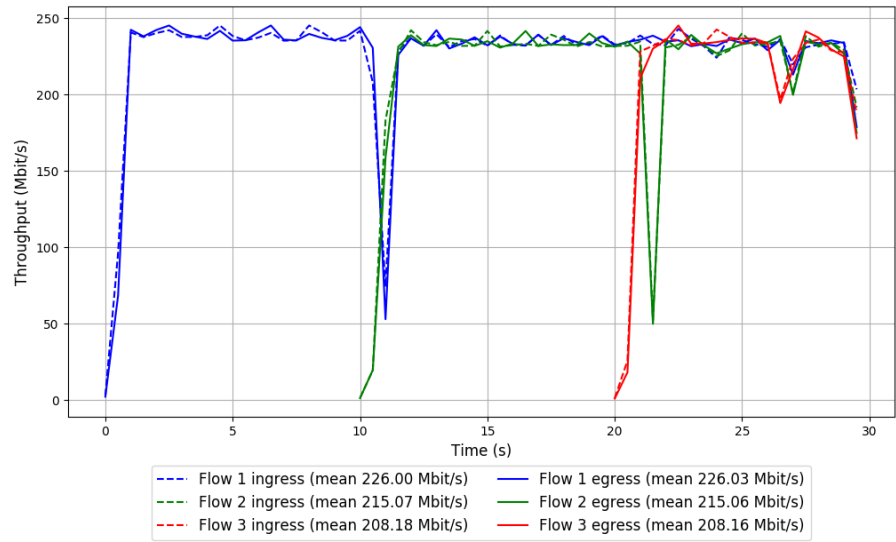
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	7	128.00	215.48	209.95	697.68	53.11	54.65	0.20	0.55	1.10
TCP Cubic	10	136.29	103.48	95.14	54.25	53.18	53.81	0.36	0.87	1.27
LEDBAT	10	11.57	10.84	9.11	283.82	51.23	51.24	0.48	0.99	2.25
PCC	10	613.57	91.02	20.22	170.54	150.51	141.11	3.42	2.54	3.97
QUIC Cubic	10	57.51	51.43	55.78	50.58	50.52	50.42	0.38	0.46	1.13
SCReAM	10	0.22	0.22	0.22	50.73	50.67	50.37	0.25	0.42	1.07
WebRTC media	10	2.20	1.42	0.59	50.77	50.28	50.56	0.44	0.62	1.60
Sprout	10	7.94	7.83	7.55	51.42	51.44	51.41	0.26	0.52	1.30
TaoVA-100x	10	225.02	222.09	198.08	53.31	53.01	58.76	0.36	0.51	1.18
TCP Vegas	10	76.32	71.37	77.12	52.41	51.80	52.24	0.29	0.45	0.96
Verus	9	218.98	154.25	118.32	119.96	165.89	119.15	1.00	3.19	0.99
Copa	10	77.56	73.22	70.32	50.68	50.70	50.63	0.29	0.43	1.54
Indigo	7	175.71	164.04	129.72	50.73	50.79	50.54	0.30	0.46	1.10
Indigo-calib	10	156.27	142.08	132.81	50.67	50.67	50.60	0.25	0.42	0.96

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-16 23:41:01
End at: 2017-11-16 23:41:31

# Below is generated by plot.py at 2017-11-17 03:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 437.55 Mbit/s
95th percentile per-packet one-way delay: 53.512 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 226.03 Mbit/s
95th percentile per-packet one-way delay: 52.330 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 215.06 Mbit/s
95th percentile per-packet one-way delay: 53.514 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 208.16 Mbit/s
95th percentile per-packet one-way delay: 56.497 ms
Loss rate: 1.01%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-16 23:53:30

End at: 2017-11-16 23:54:00

Below is generated by plot.py at 2017-11-17 03:54:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.38 Mbit/s

95th percentile per-packet one-way delay: 52.878 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 17.07 Mbit/s

95th percentile per-packet one-way delay: 4095.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 218.07 Mbit/s

95th percentile per-packet one-way delay: 53.048 ms

Loss rate: 0.54%

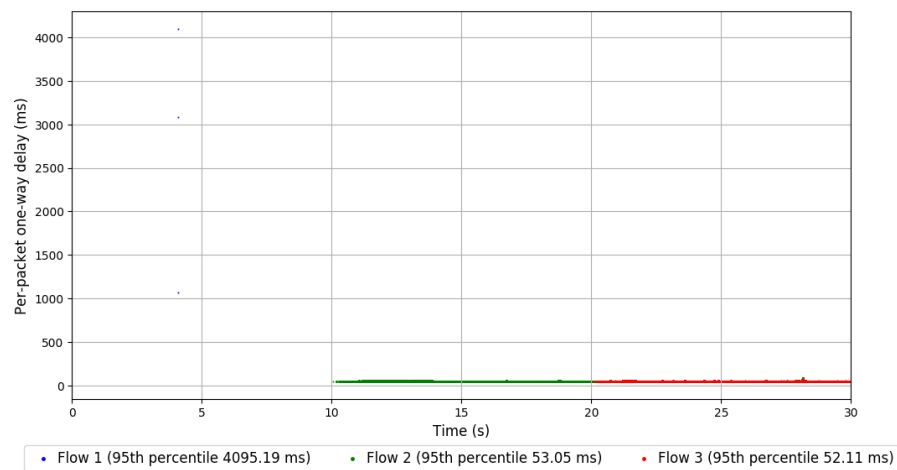
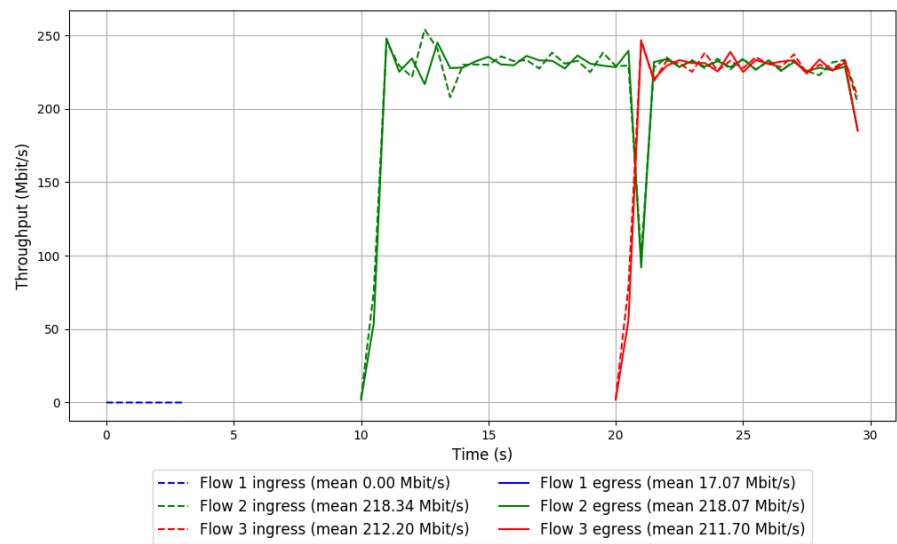
-- Flow 3:

Average throughput: 211.70 Mbit/s

95th percentile per-packet one-way delay: 52.113 ms

Loss rate: 1.13%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-17 00:05:53

End at: 2017-11-17 00:06:23

Below is generated by plot.py at 2017-11-17 03:54:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.26 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 220.41 Mbit/s

95th percentile per-packet one-way delay: 52.868 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 213.08 Mbit/s

95th percentile per-packet one-way delay: 54.151 ms

Loss rate: 0.57%

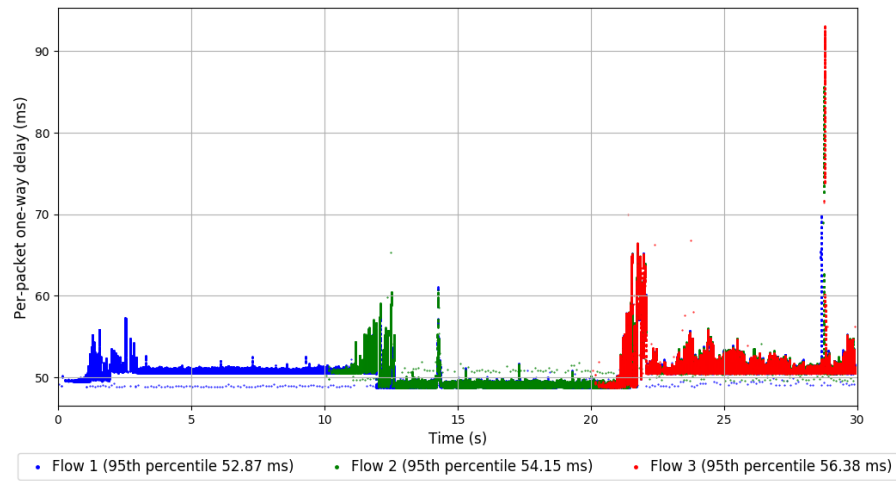
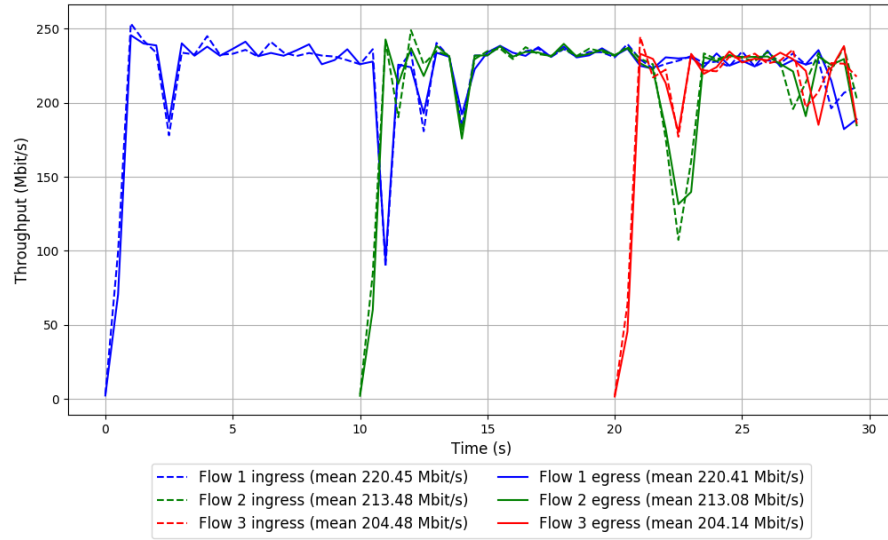
-- Flow 3:

Average throughput: 204.14 Mbit/s

95th percentile per-packet one-way delay: 56.381 ms

Loss rate: 1.14%

Run 3: Report of TCP BBR — Data Link

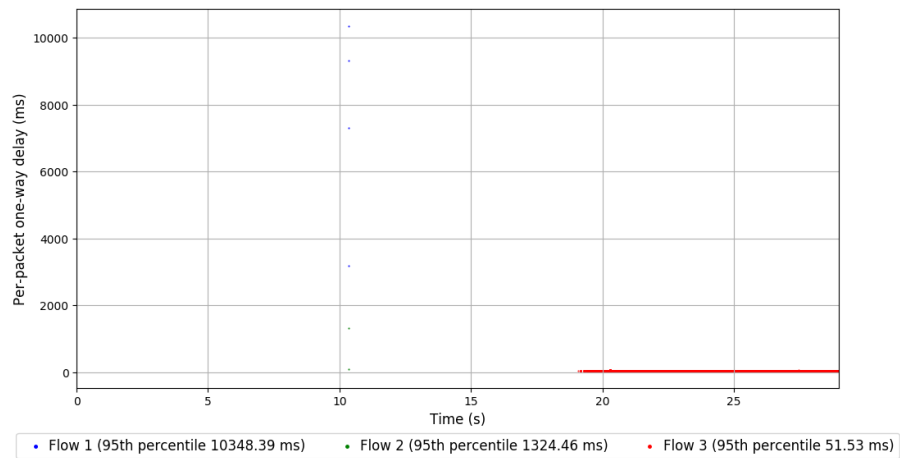
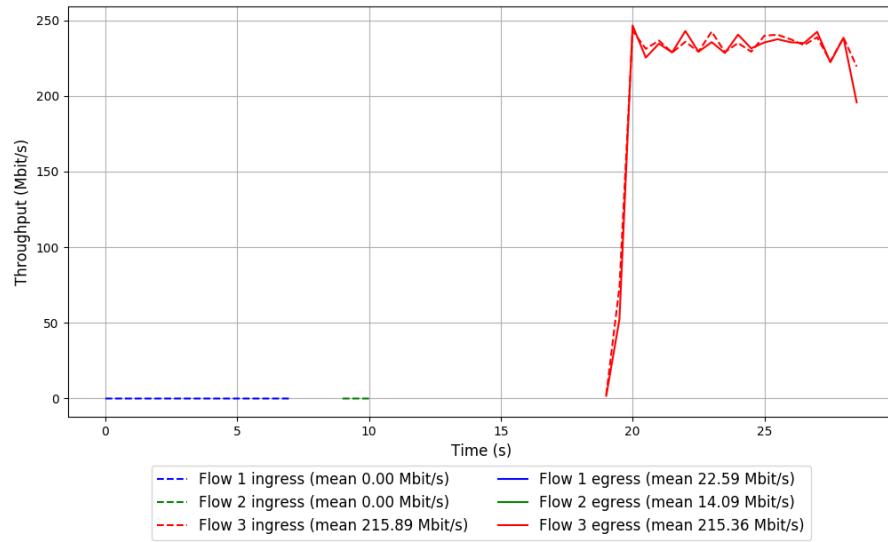


Run 4: Statistics of TCP BBR

Start at: 2017-11-17 00:18:26

End at: 2017-11-17 00:18:56

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-17 00:30:41

End at: 2017-11-17 00:31:11

Below is generated by plot.py at 2017-11-17 03:54:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.60 Mbit/s

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

Loss rate: 0.55%

-- Flow 1:

Average throughput: 210.48 Mbit/s

95th percentile per-packet one-way delay: 52.769 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 219.53 Mbit/s

95th percentile per-packet one-way delay: 52.987 ms

Loss rate: 0.53%

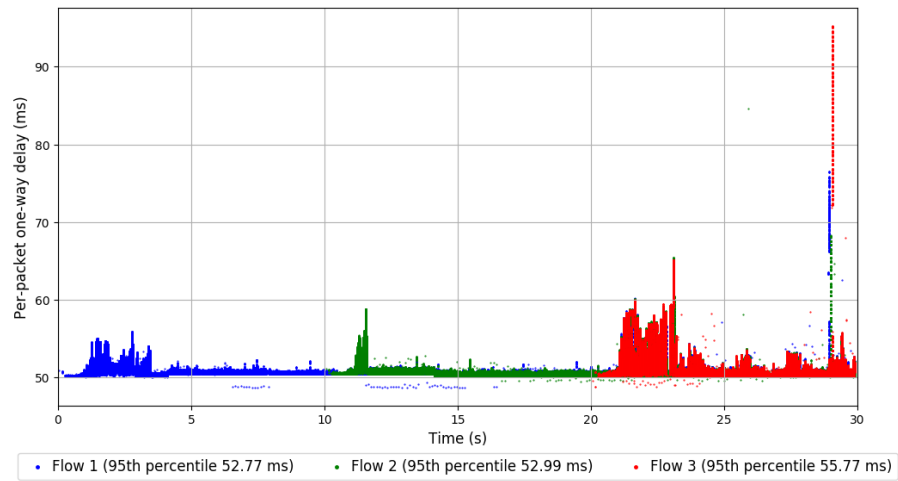
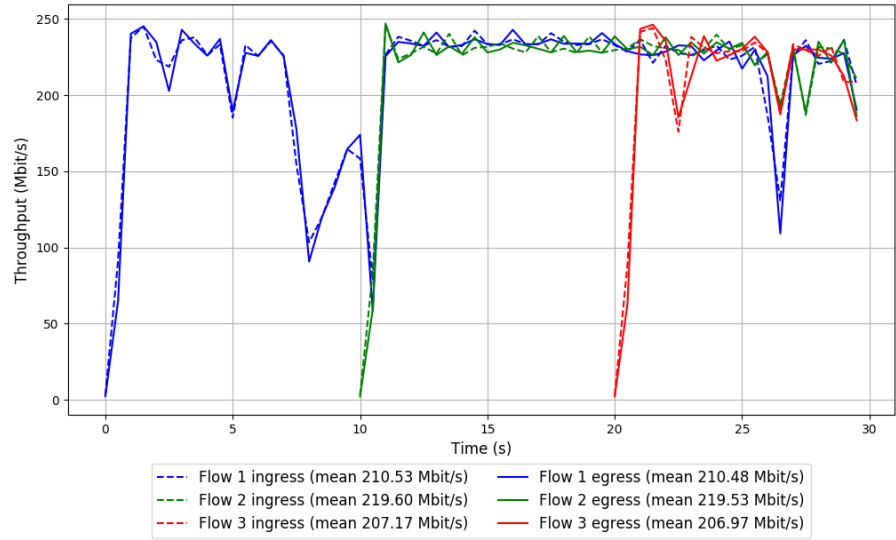
-- Flow 3:

Average throughput: 206.97 Mbit/s

95th percentile per-packet one-way delay: 55.769 ms

Loss rate: 1.16%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-17 00:43:06

End at: 2017-11-17 00:43:36

Below is generated by plot.py at 2017-11-17 03:54:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.24 Mbit/s

95th percentile per-packet one-way delay: 51.005 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 242.859 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 213.71 Mbit/s

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

Loss rate: 0.58%

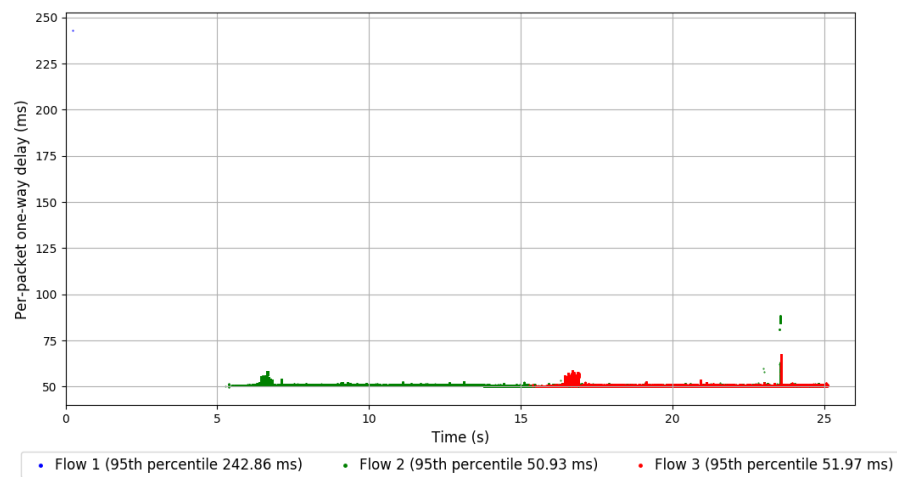
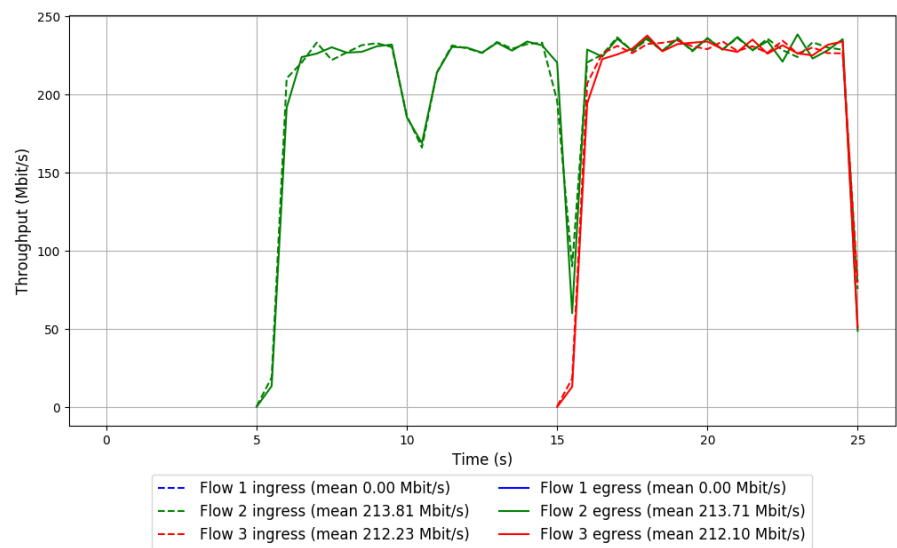
-- Flow 3:

Average throughput: 212.10 Mbit/s

95th percentile per-packet one-way delay: 51.972 ms

Loss rate: 1.07%

Run 6: Report of TCP BBR — Data Link

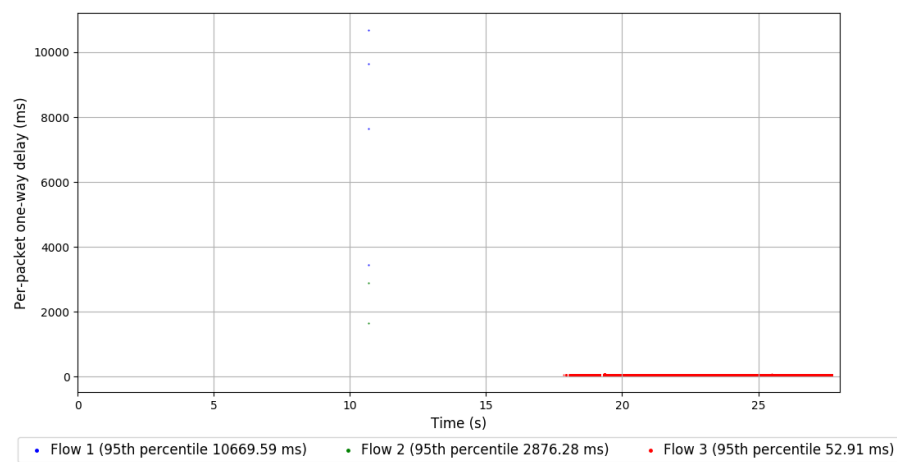
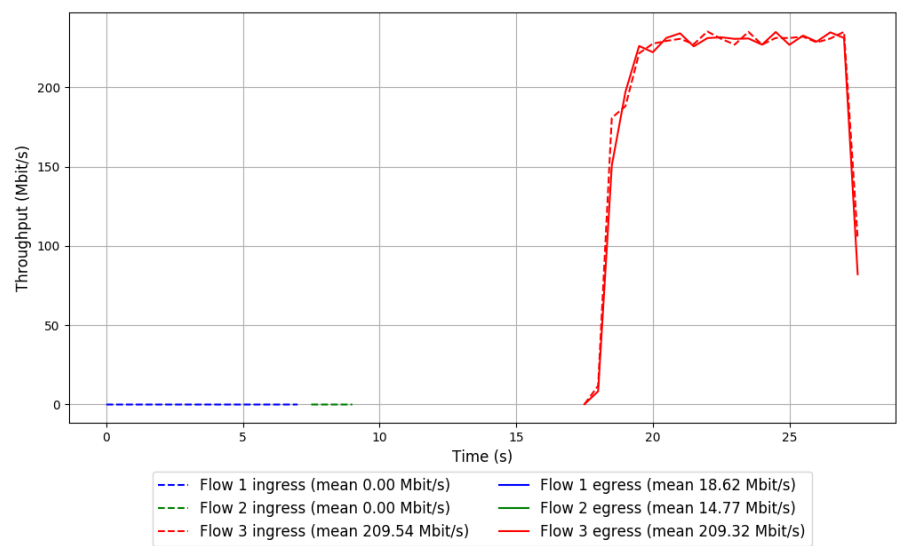


Run 7: Statistics of TCP BBR

Start at: 2017-11-17 00:55:20

End at: 2017-11-17 00:55:50

Run 7: Report of TCP BBR — Data Link

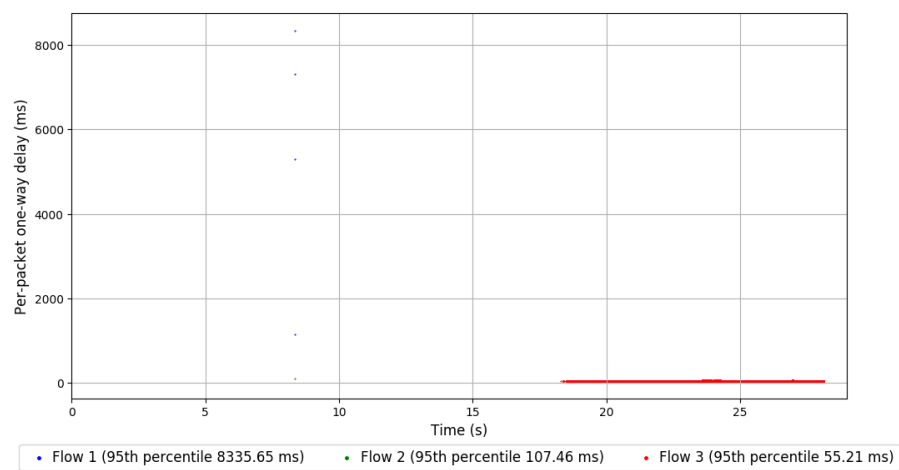
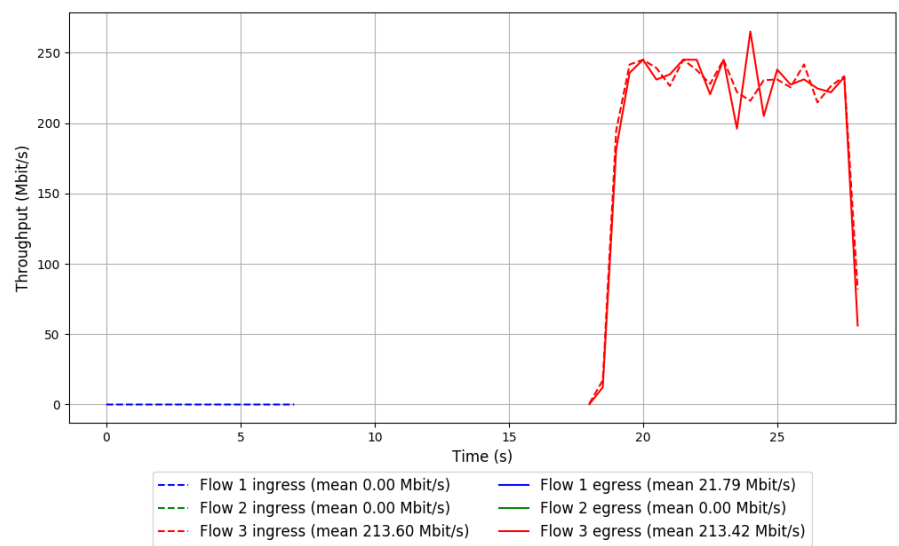


Run 8: Statistics of TCP BBR

Start at: 2017-11-17 01:07:28

End at: 2017-11-17 01:07:58

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-17 01:19:43

End at: 2017-11-17 01:20:13

Below is generated by plot.py at 2017-11-17 03:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.72 Mbit/s

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

Loss rate: 0.55%

-- Flow 1:

Average throughput: 222.01 Mbit/s

95th percentile per-packet one-way delay: 52.453 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 211.56 Mbit/s

95th percentile per-packet one-way delay: 53.091 ms

Loss rate: 0.57%

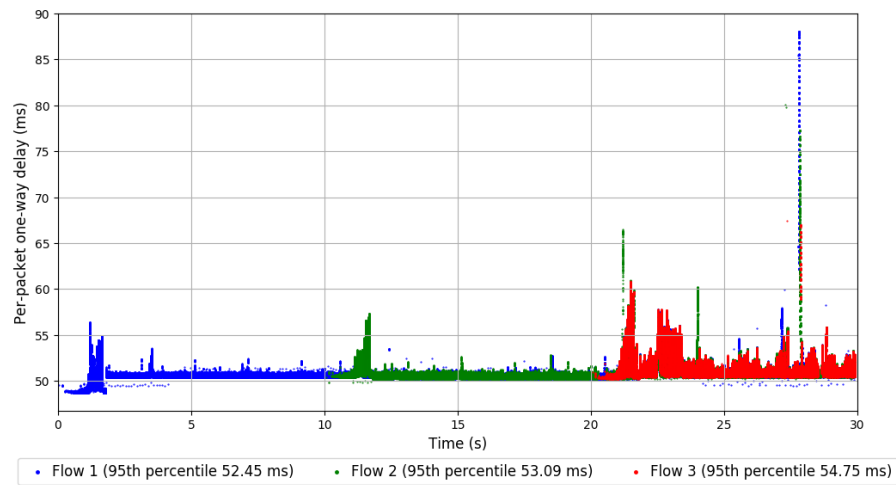
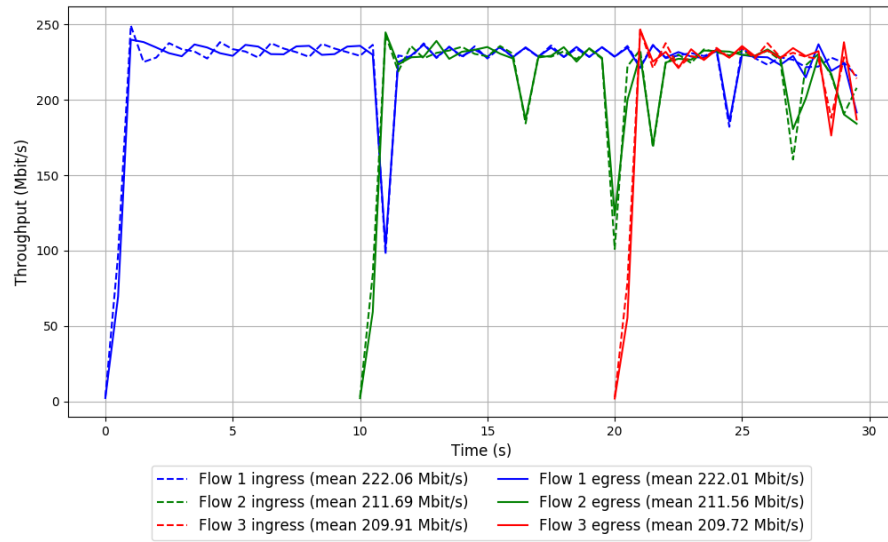
-- Flow 3:

Average throughput: 209.72 Mbit/s

95th percentile per-packet one-way delay: 54.752 ms

Loss rate: 1.12%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-17 01:32:12

End at: 2017-11-17 01:32:42

Below is generated by plot.py at 2017-11-17 03:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.76 Mbit/s

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

Loss rate: 0.72%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 335.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 217.36 Mbit/s

95th percentile per-packet one-way delay: 54.083 ms

Loss rate: 0.54%

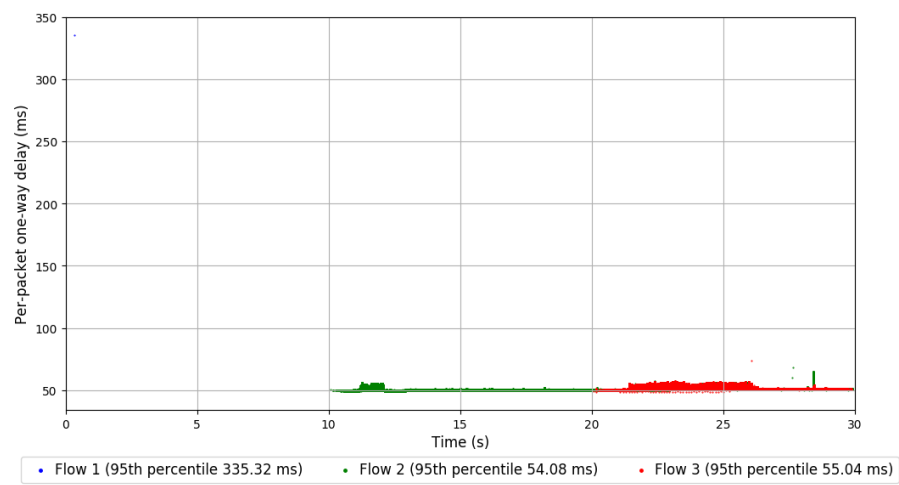
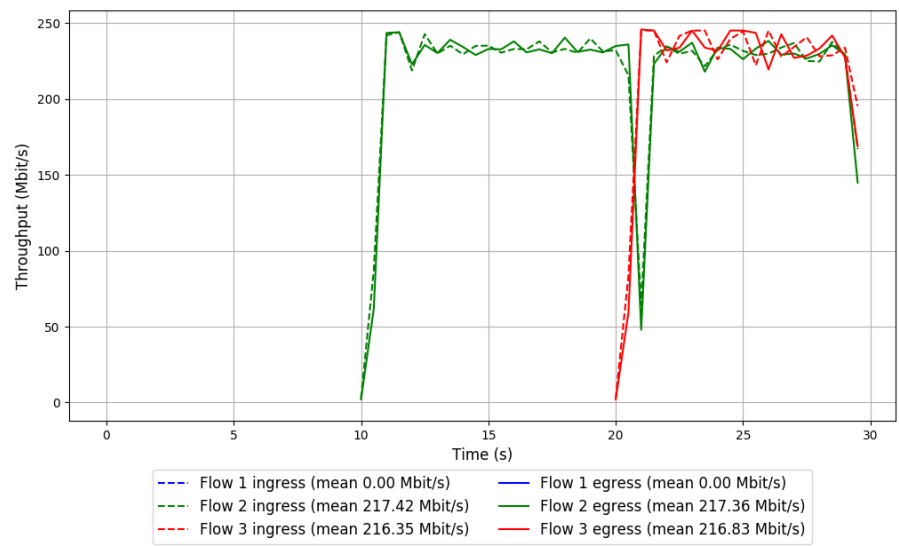
-- Flow 3:

Average throughput: 216.83 Mbit/s

95th percentile per-packet one-way delay: 55.037 ms

Loss rate: 1.10%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 23:37:52

End at: 2017-11-16 23:38:22

Below is generated by plot.py at 2017-11-17 03:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.41 Mbit/s

95th percentile per-packet one-way delay: 55.977 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 141.10 Mbit/s

95th percentile per-packet one-way delay: 55.946 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 143.27 Mbit/s

95th percentile per-packet one-way delay: 54.293 ms

Loss rate: 0.63%

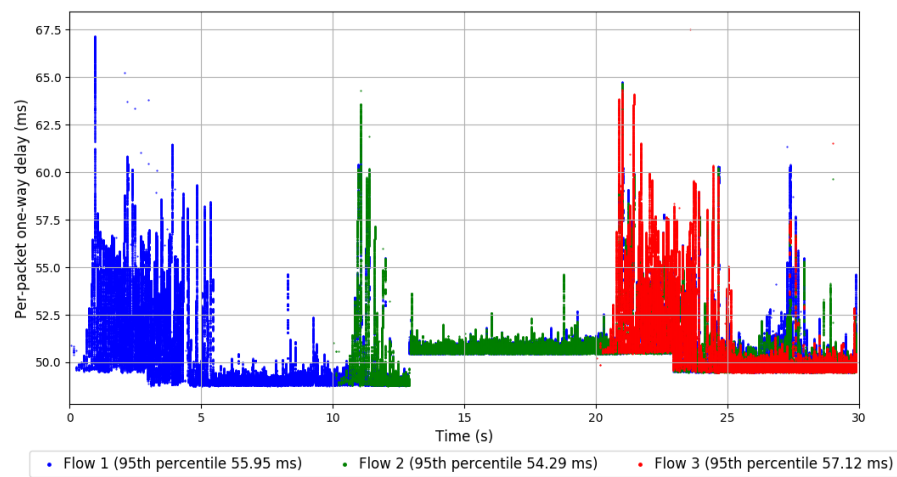
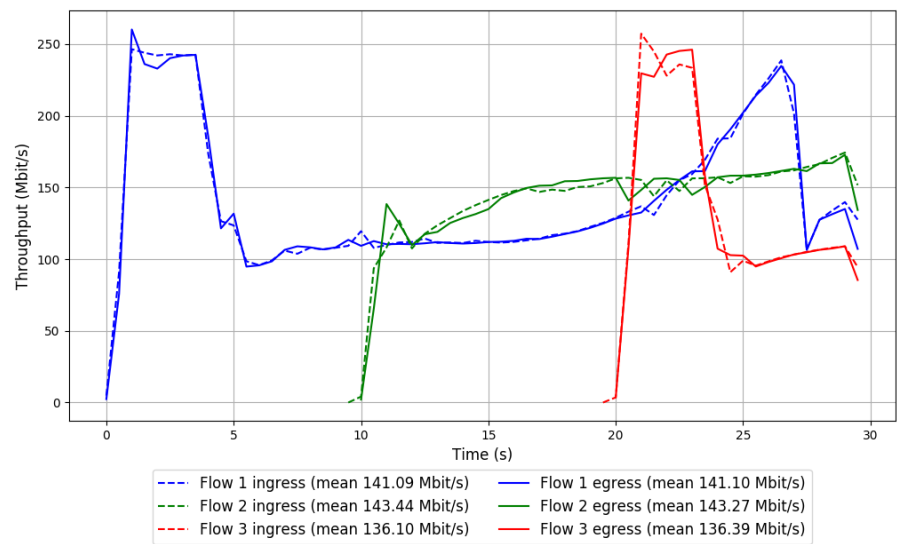
-- Flow 3:

Average throughput: 136.39 Mbit/s

95th percentile per-packet one-way delay: 57.118 ms

Loss rate: 0.80%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 23:50:06

End at: 2017-11-16 23:50:36

Below is generated by plot.py at 2017-11-17 03:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.08 Mbit/s

95th percentile per-packet one-way delay: 55.501 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 147.94 Mbit/s

95th percentile per-packet one-way delay: 56.206 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 99.83 Mbit/s

95th percentile per-packet one-way delay: 53.981 ms

Loss rate: 0.31%

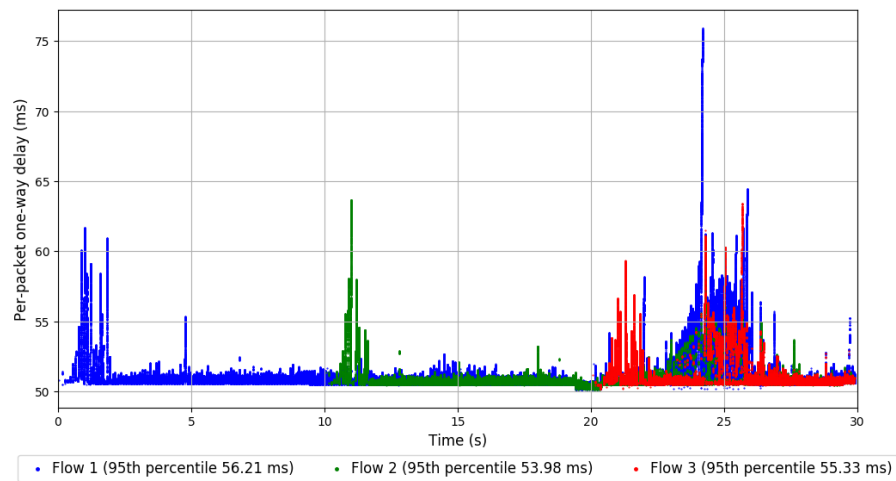
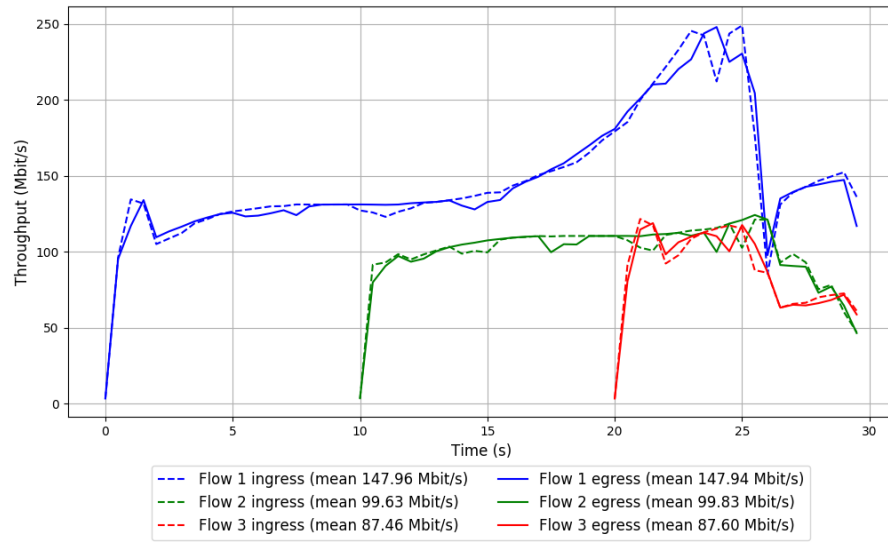
-- Flow 3:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 55.327 ms

Loss rate: 0.86%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-17 00:02:30

End at: 2017-11-17 00:03:00

Below is generated by plot.py at 2017-11-17 03:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.68 Mbit/s

95th percentile per-packet one-way delay: 54.733 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 116.11 Mbit/s

95th percentile per-packet one-way delay: 55.546 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 133.26 Mbit/s

95th percentile per-packet one-way delay: 52.879 ms

Loss rate: 0.64%

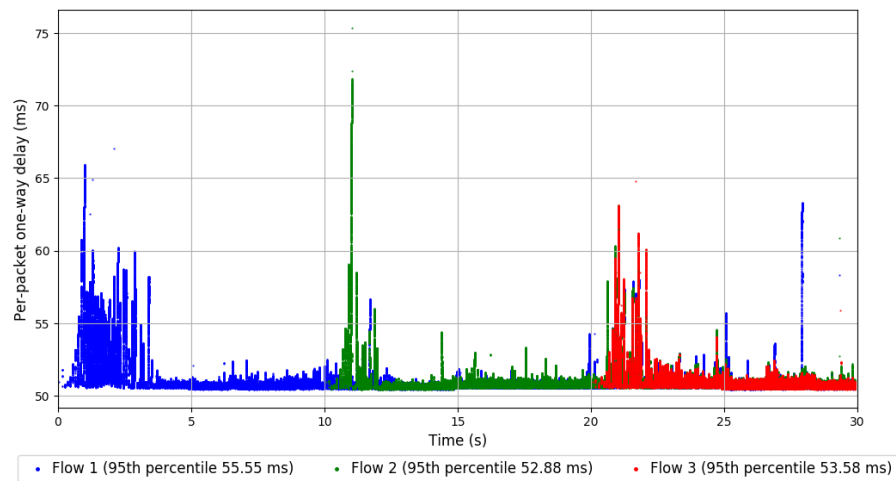
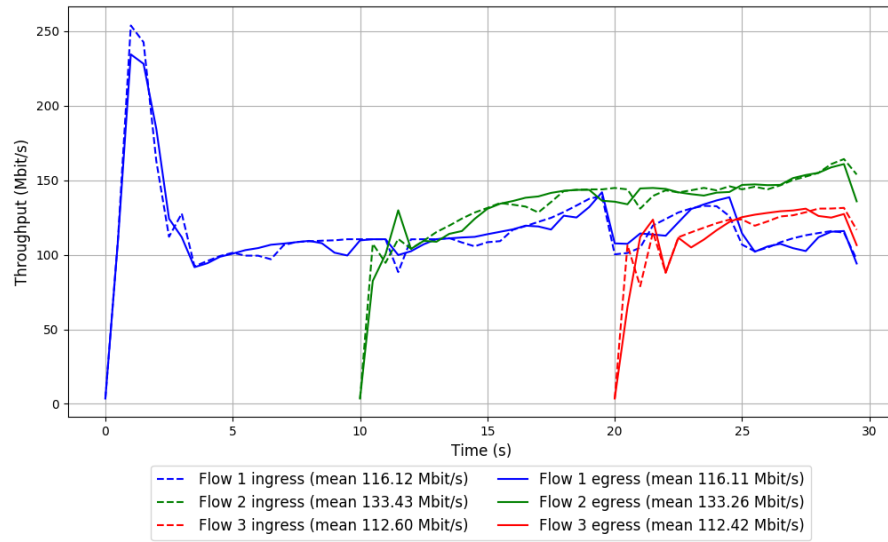
-- Flow 3:

Average throughput: 112.42 Mbit/s

95th percentile per-packet one-way delay: 53.583 ms

Loss rate: 1.18%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-17 00:15:07

End at: 2017-11-17 00:15:37

Below is generated by plot.py at 2017-11-17 03:55:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.45 Mbit/s

95th percentile per-packet one-way delay: 55.588 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 117.83 Mbit/s

95th percentile per-packet one-way delay: 55.417 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 115.79 Mbit/s

95th percentile per-packet one-way delay: 55.945 ms

Loss rate: 0.63%

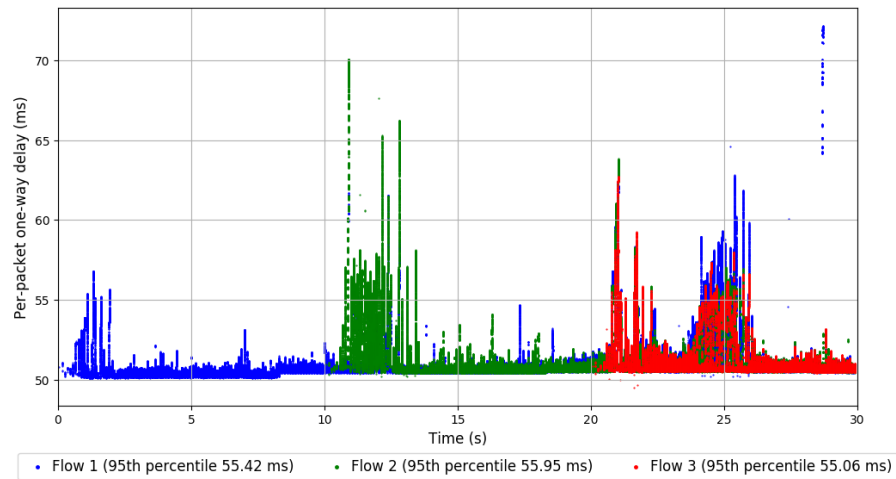
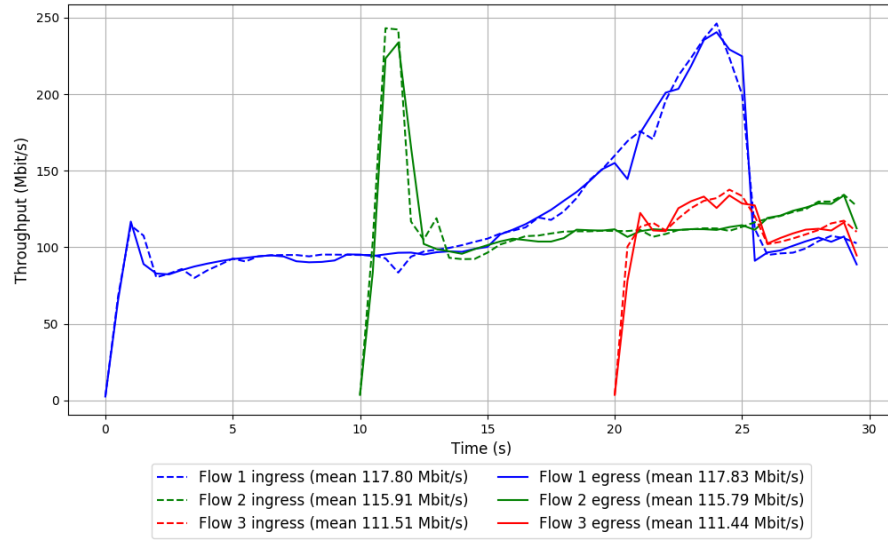
-- Flow 3:

Average throughput: 111.44 Mbit/s

95th percentile per-packet one-way delay: 55.060 ms

Loss rate: 1.08%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-17 00:27:17

End at: 2017-11-17 00:27:47

Below is generated by plot.py at 2017-11-17 03:57:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.55 Mbit/s

95th percentile per-packet one-way delay: 54.198 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 178.10 Mbit/s

95th percentile per-packet one-way delay: 54.275 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 116.77 Mbit/s

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

Loss rate: 0.60%

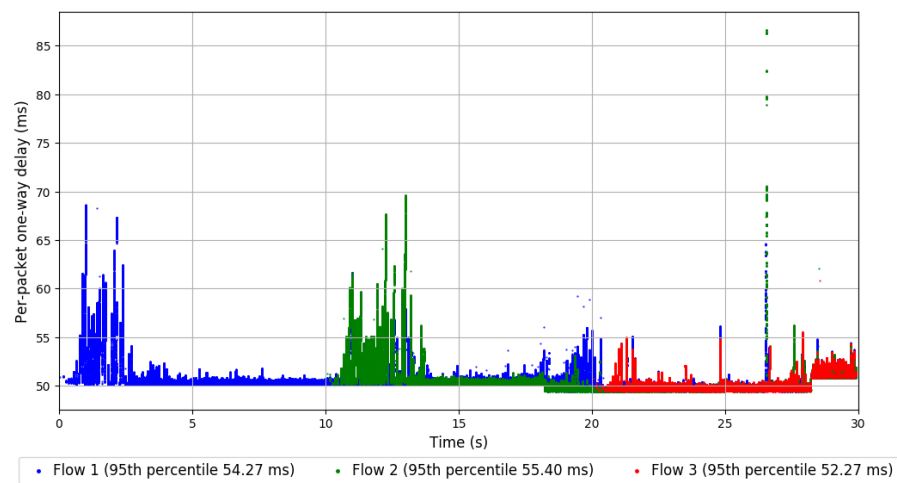
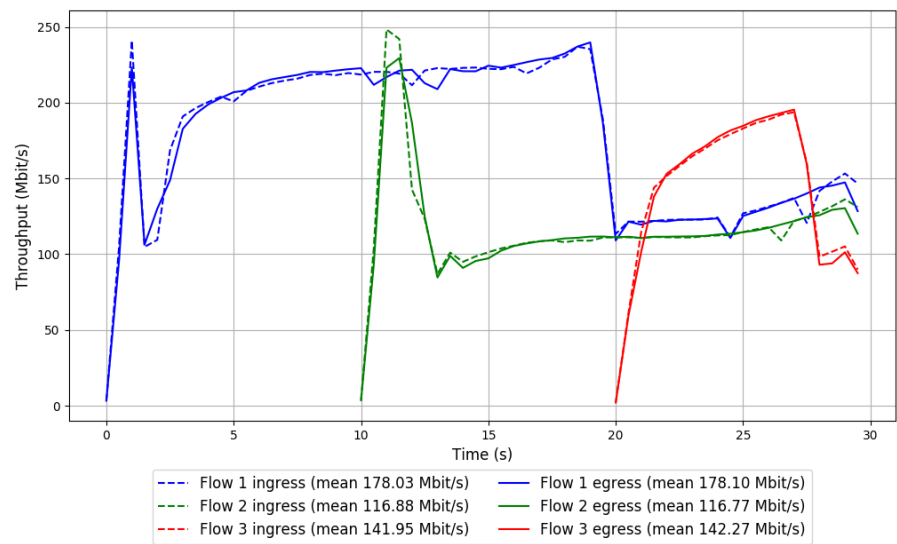
-- Flow 3:

Average throughput: 142.27 Mbit/s

95th percentile per-packet one-way delay: 52.275 ms

Loss rate: 0.77%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-17 00:39:47

End at: 2017-11-17 00:40:17

Below is generated by plot.py at 2017-11-17 03:57:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.35 Mbit/s

95th percentile per-packet one-way delay: 55.773 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 119.17 Mbit/s

95th percentile per-packet one-way delay: 55.912 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 100.29 Mbit/s

95th percentile per-packet one-way delay: 53.718 ms

Loss rate: 0.55%

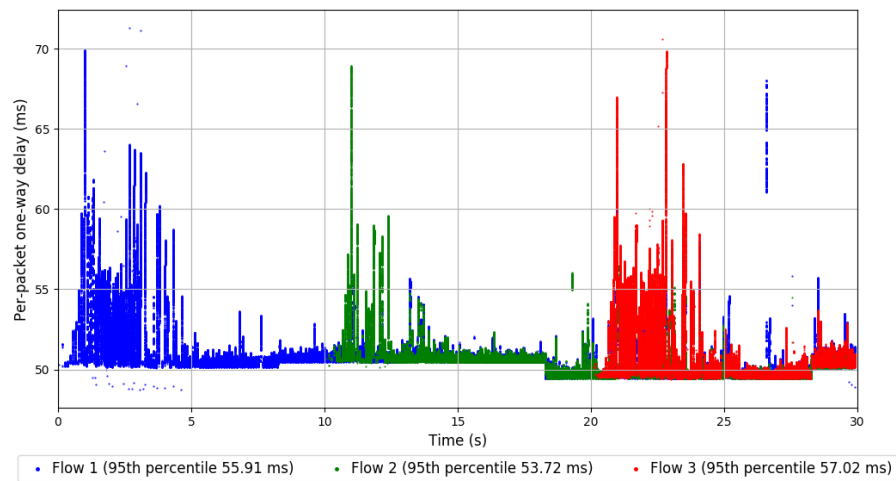
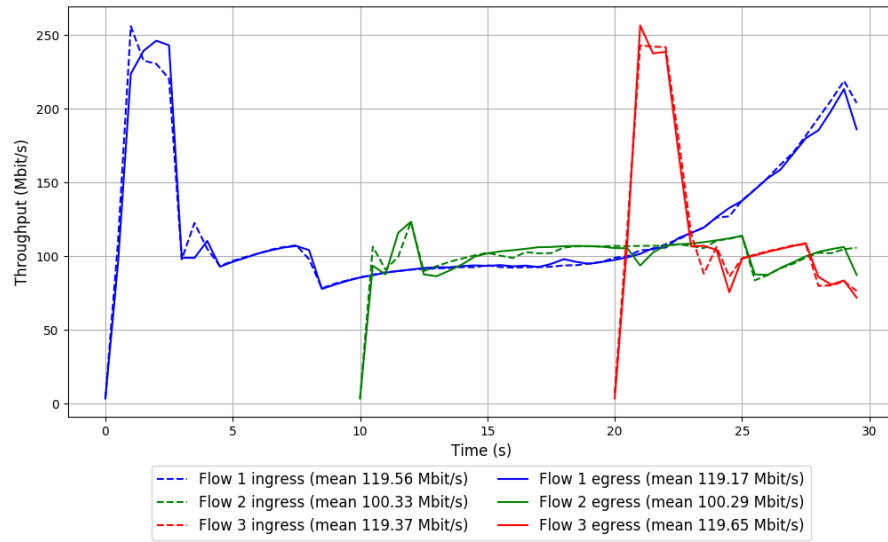
-- Flow 3:

Average throughput: 119.65 Mbit/s

95th percentile per-packet one-way delay: 57.021 ms

Loss rate: 0.76%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-17 00:52:04

End at: 2017-11-17 00:52:34

Below is generated by plot.py at 2017-11-17 03:57:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.64 Mbit/s

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

Loss rate: 0.57%

-- Flow 1:

Average throughput: 115.41 Mbit/s

95th percentile per-packet one-way delay: 50.881 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 148.17 Mbit/s

95th percentile per-packet one-way delay: 50.275 ms

Loss rate: 0.68%

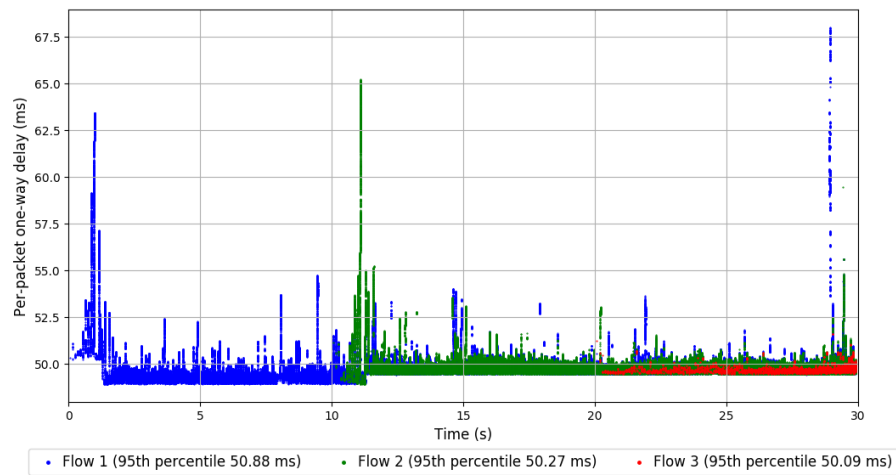
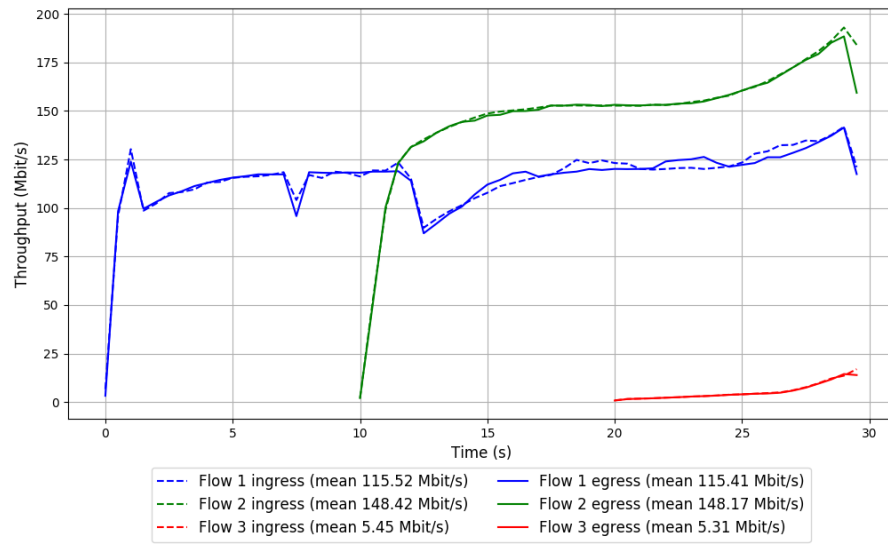
-- Flow 3:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 50.089 ms

Loss rate: 3.63%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-17 01:04:09

End at: 2017-11-17 01:04:39

Below is generated by plot.py at 2017-11-17 03:57:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.51 Mbit/s

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

Loss rate: 0.66%

-- Flow 1:

Average throughput: 129.14 Mbit/s

95th percentile per-packet one-way delay: 51.765 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 51.641 ms

Loss rate: 1.37%

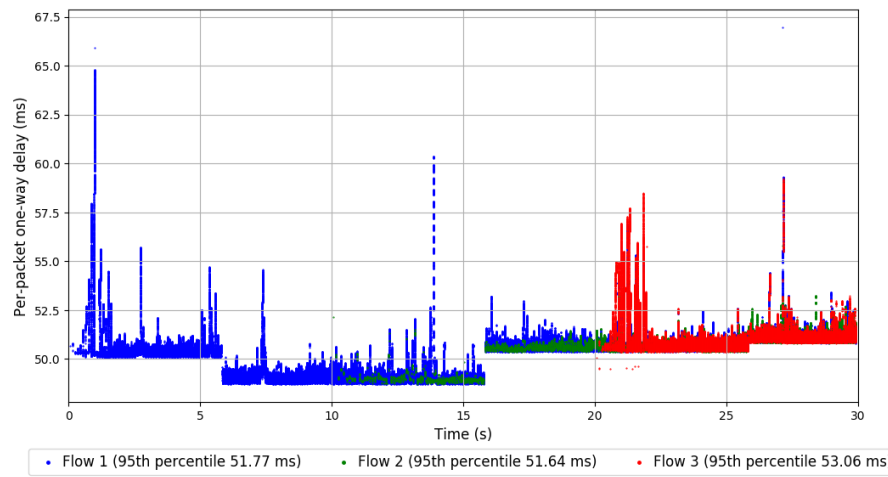
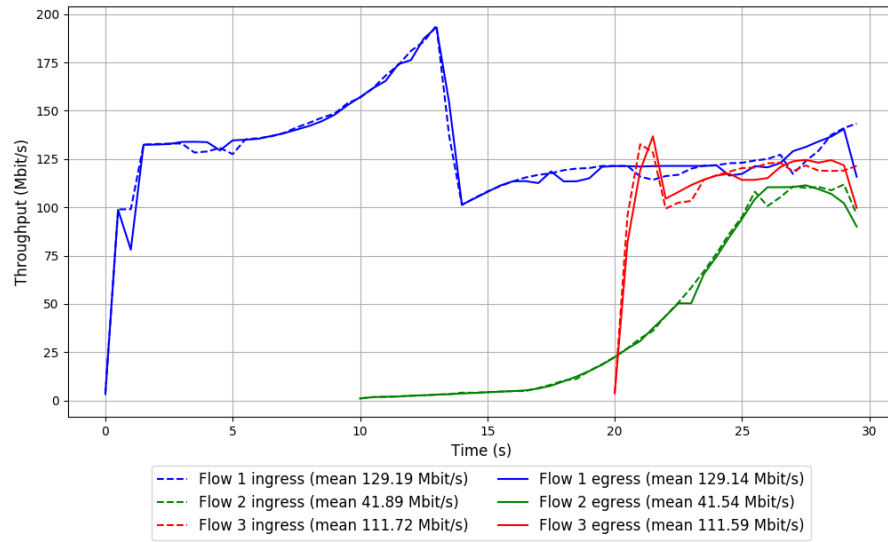
-- Flow 3:

Average throughput: 111.59 Mbit/s

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

Loss rate: 1.13%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-17 01:16:19

End at: 2017-11-17 01:16:49

Below is generated by plot.py at 2017-11-17 03:57:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 195.12 Mbit/s

95th percentile per-packet one-way delay: 52.001 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 144.83 Mbit/s

95th percentile per-packet one-way delay: 51.957 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 51.268 ms

Loss rate: 2.54%

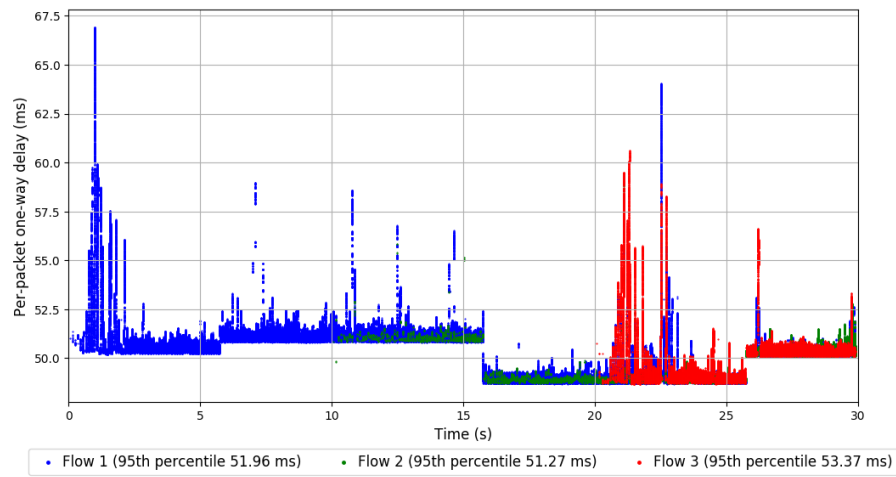
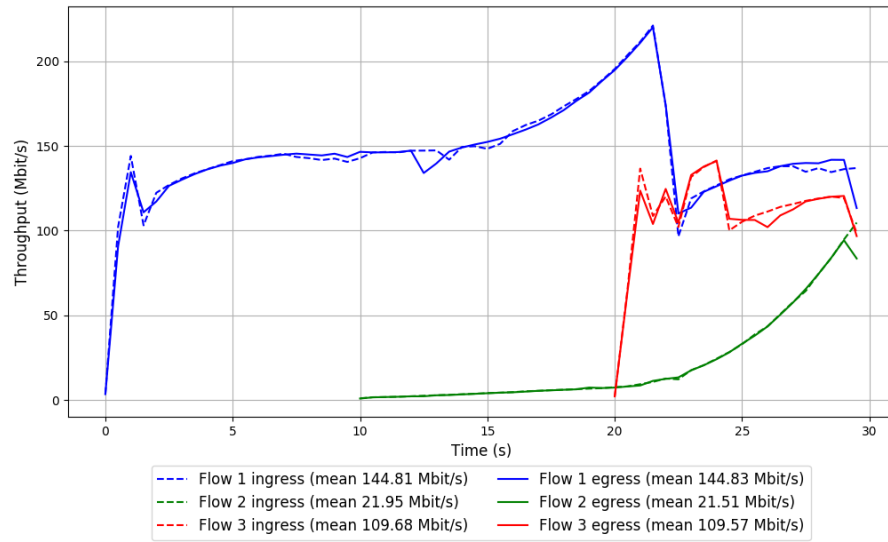
-- Flow 3:

Average throughput: 109.57 Mbit/s

95th percentile per-packet one-way delay: 53.365 ms

Loss rate: 1.12%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-17 01:28:51

End at: 2017-11-17 01:29:21

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.29 Mbit/s

95th percentile per-packet one-way delay: 53.924 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 153.27 Mbit/s

95th percentile per-packet one-way delay: 54.621 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 114.41 Mbit/s

95th percentile per-packet one-way delay: 52.403 ms

Loss rate: 0.73%

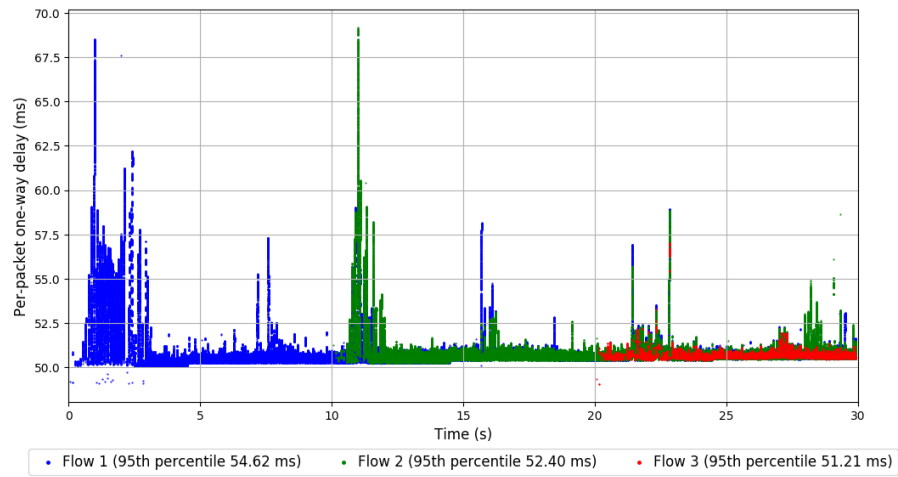
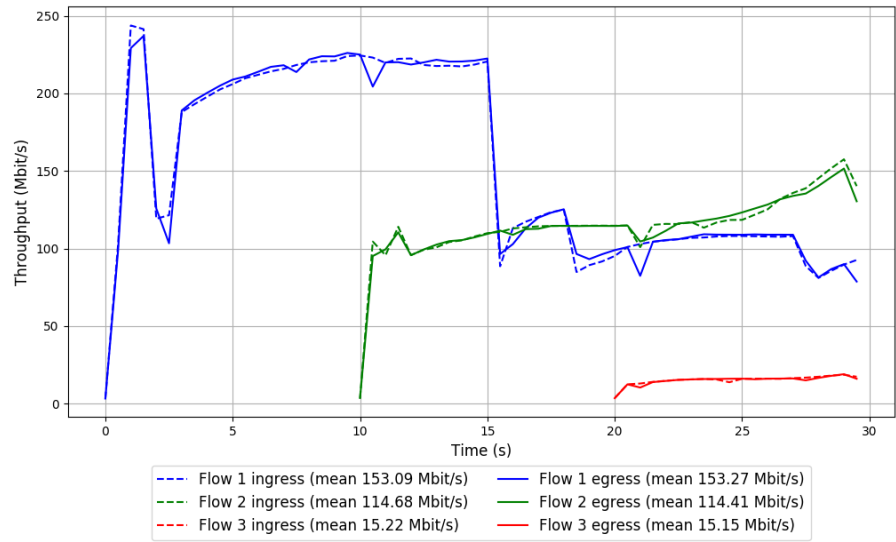
-- Flow 3:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 51.210 ms

Loss rate: 1.41%

Run 10: Report of TCP Cubic — Data Link

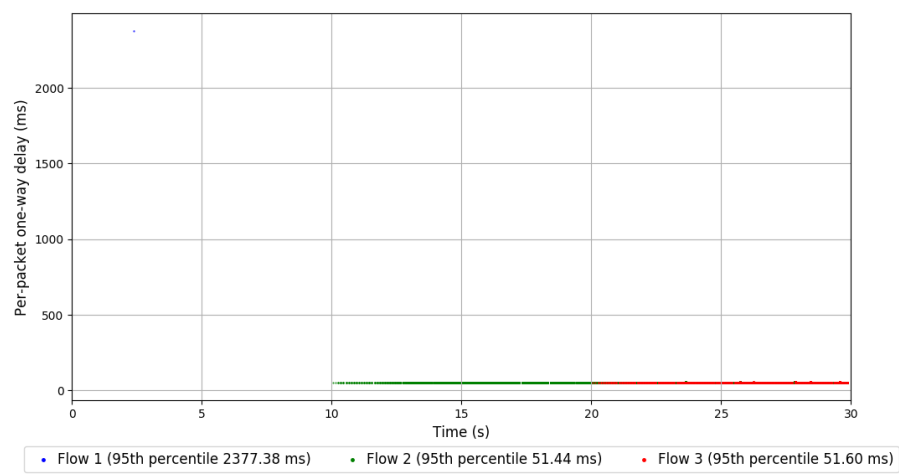
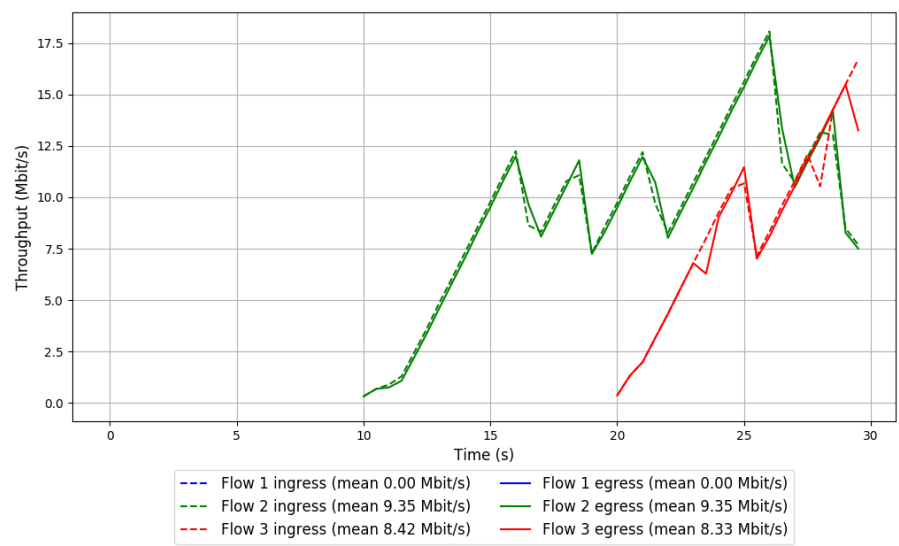


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 23:44:06
End at: 2017-11-16 23:44:36

# Below is generated by plot.py at 2017-11-17 03:58:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 51.503 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2377.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 51.437 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 51.600 ms
Loss rate: 2.07%
```


Run 1: Report of LEDBAT — Data Link

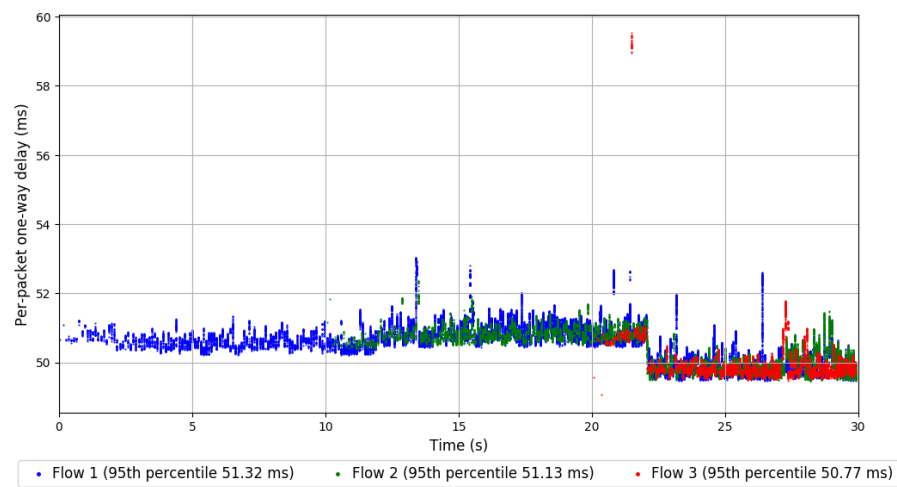
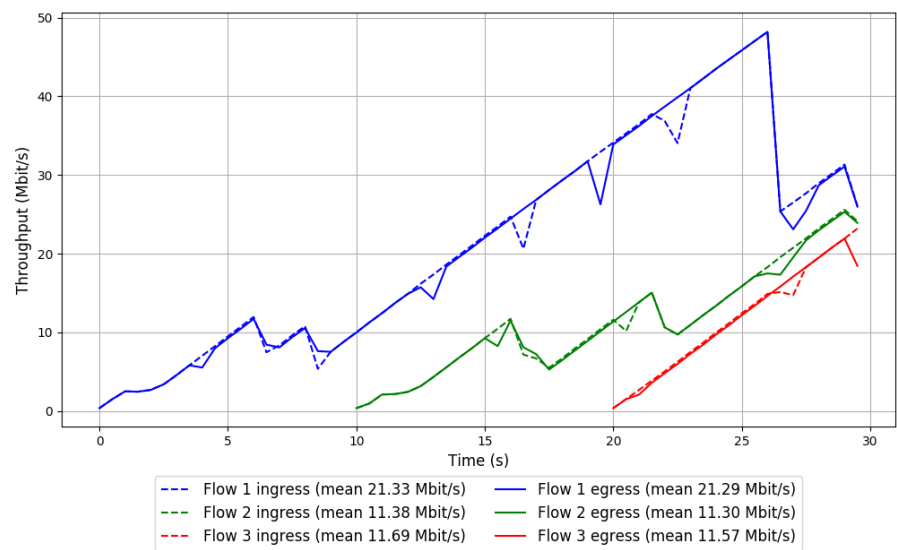


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-16 23:56:23
End at: 2017-11-16 23:56:53

# Below is generated by plot.py at 2017-11-17 03:58:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 51.257 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 21.29 Mbit/s
95th percentile per-packet one-way delay: 51.320 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 51.127 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 50.771 ms
Loss rate: 2.05%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-17 00:09:03

End at: 2017-11-17 00:09:33

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.70 Mbit/s

95th percentile per-packet one-way delay: 51.274 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 51.163 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 10.24 Mbit/s

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

Loss rate: 1.15%

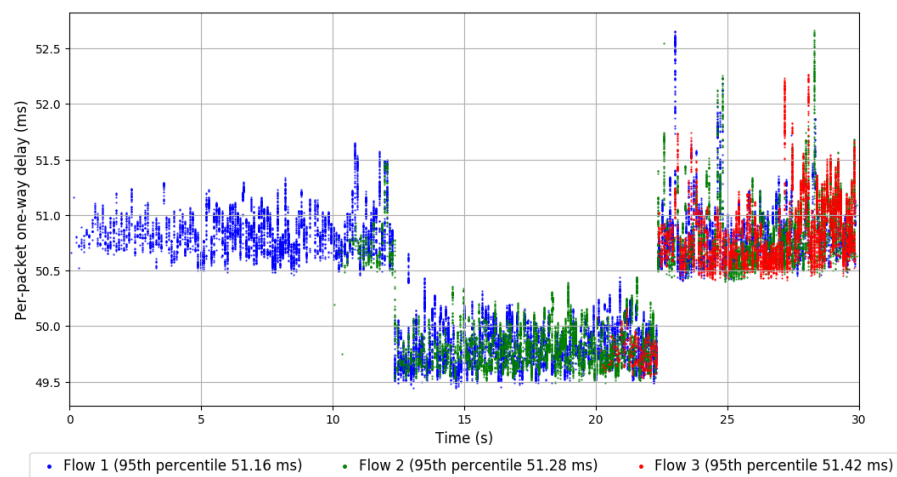
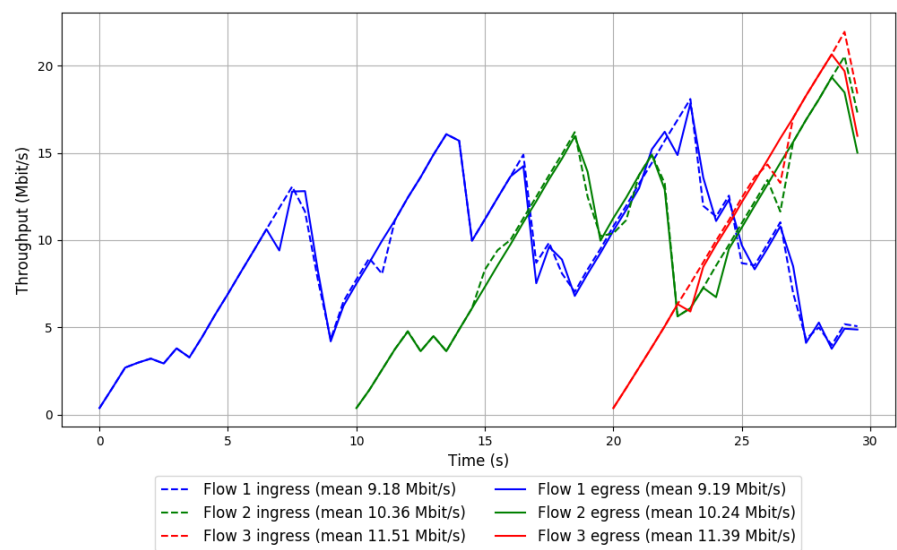
-- Flow 3:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 51.421 ms

Loss rate: 2.06%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-17 00:21:16

End at: 2017-11-17 00:21:46

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.87 Mbit/s

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

Loss rate: 0.95%

-- Flow 1:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 51.310 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 10.40 Mbit/s

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

Loss rate: 1.25%

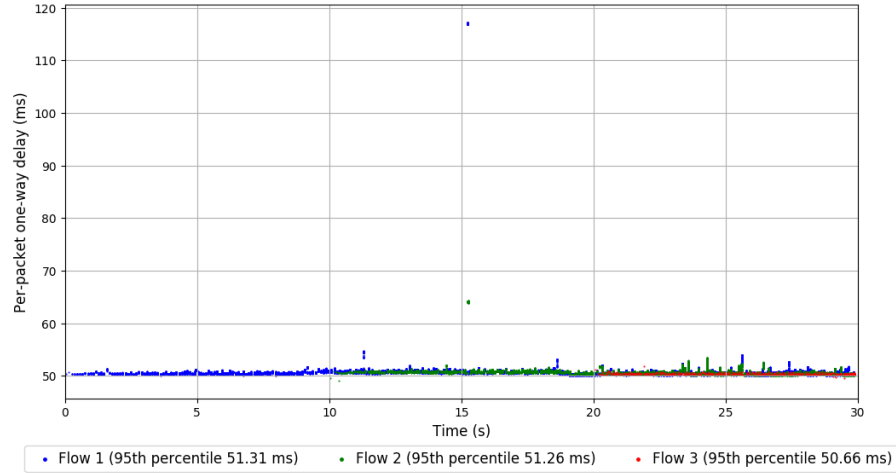
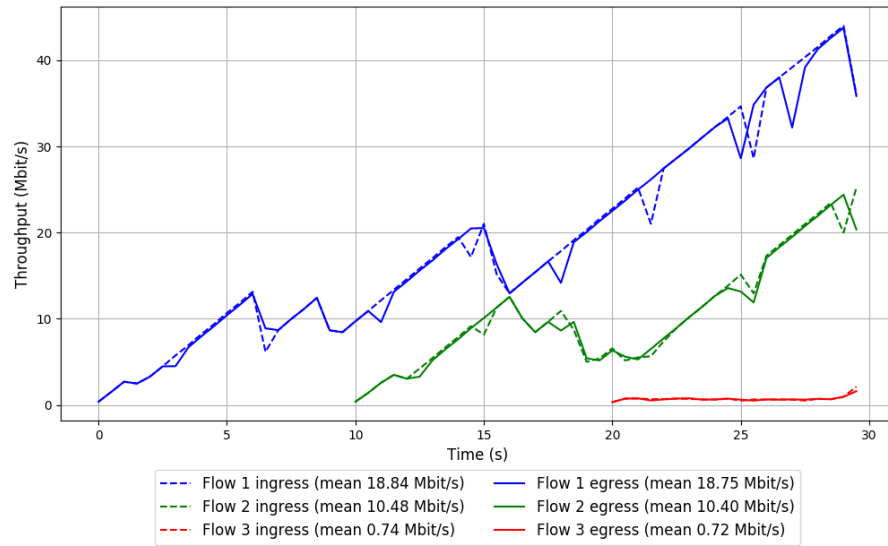
-- Flow 3:

Average throughput: 0.72 Mbit/s

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

Loss rate: 3.53%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-17 00:33:43

End at: 2017-11-17 00:34:13

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 51.315 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 51.187 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 12.93 Mbit/s

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

Loss rate: 1.03%

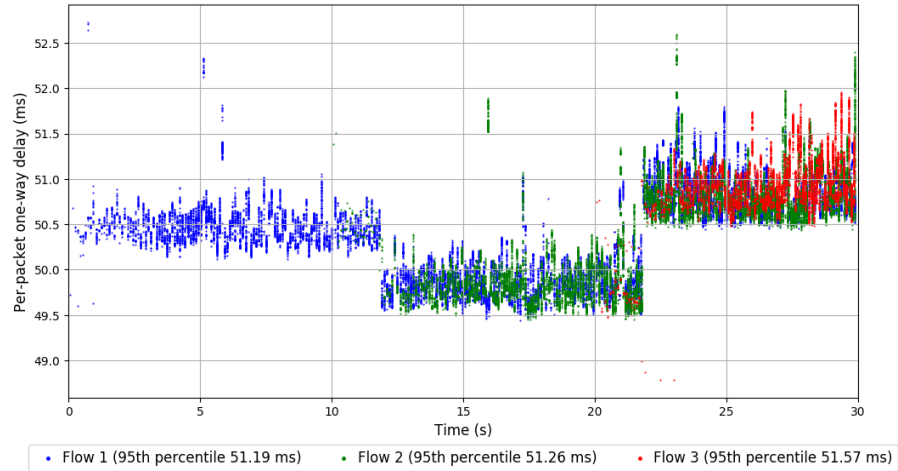
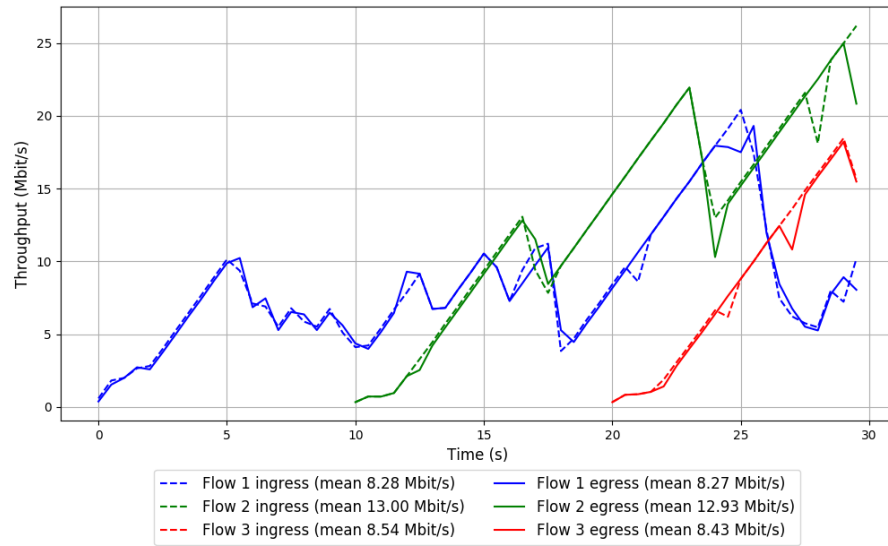
-- Flow 3:

Average throughput: 8.43 Mbit/s

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

Loss rate: 2.36%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-17 00:46:07

End at: 2017-11-17 00:46:37

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 51.444 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 51.515 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 51.316 ms

Loss rate: 0.40%

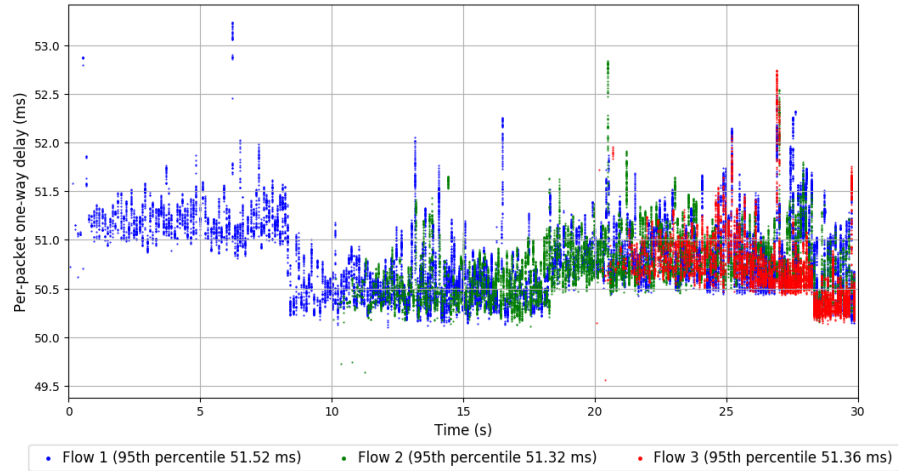
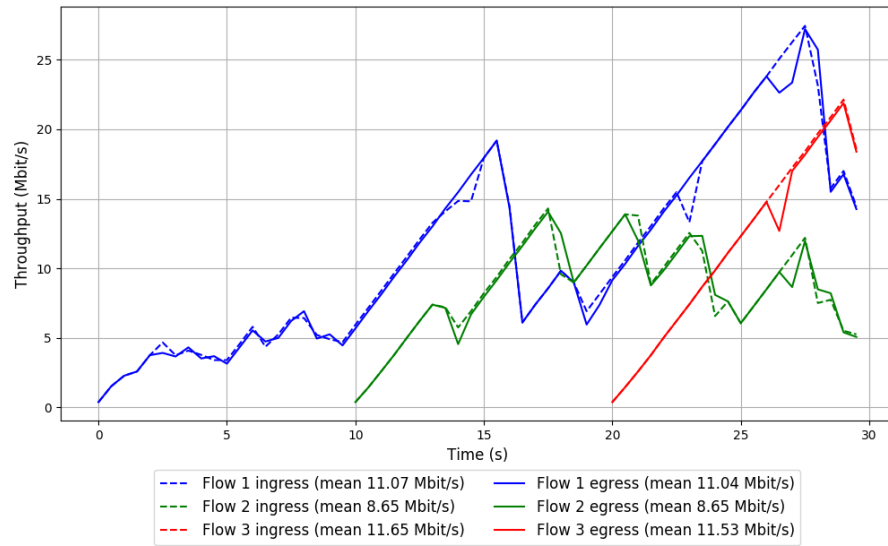
-- Flow 3:

Average throughput: 11.53 Mbit/s

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

Loss rate: 2.05%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-17 00:58:10

End at: 2017-11-17 00:58:40

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.93 Mbit/s

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

Loss rate: 0.92%

-- Flow 1:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 51.018 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 11.85 Mbit/s

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

Loss rate: 1.27%

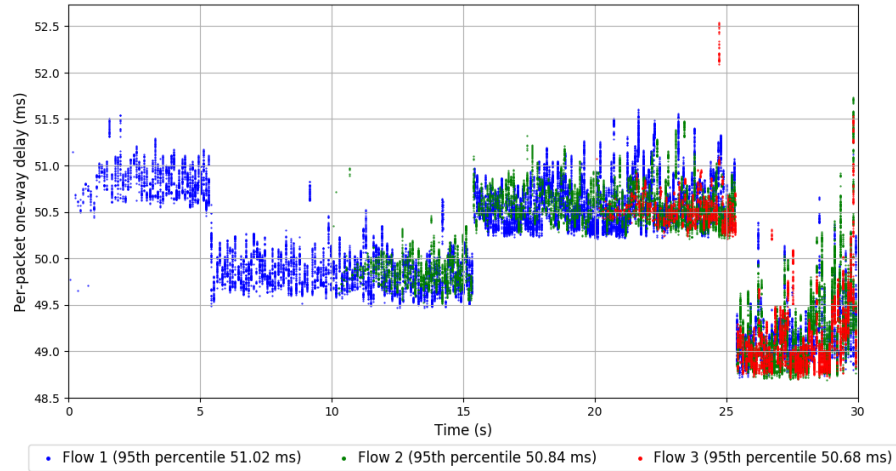
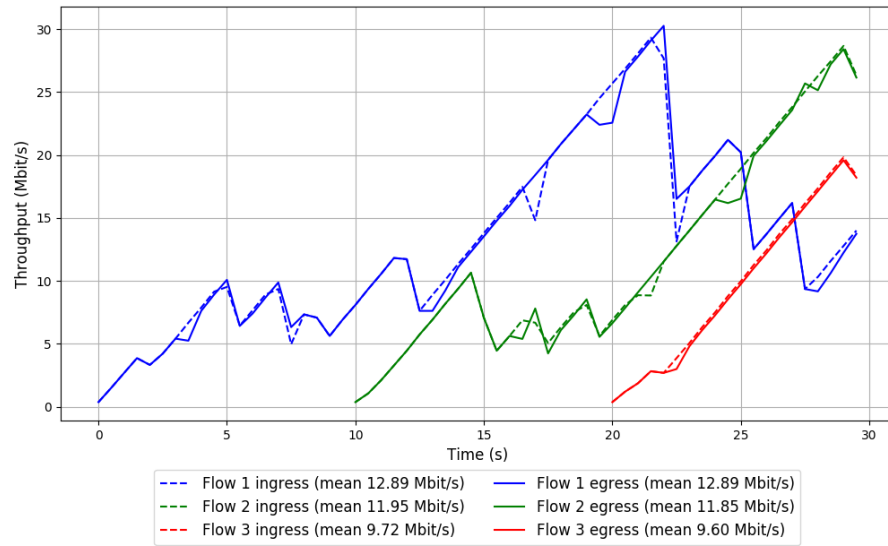
-- Flow 3:

Average throughput: 9.60 Mbit/s

95th percentile per-packet one-way delay: 50.679 ms

Loss rate: 2.20%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-17 01:10:14

End at: 2017-11-17 01:10:44

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.83 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 8.89 Mbit/s

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

Loss rate: 0.29%

-- Flow 2:

Average throughput: 10.04 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 1.27%

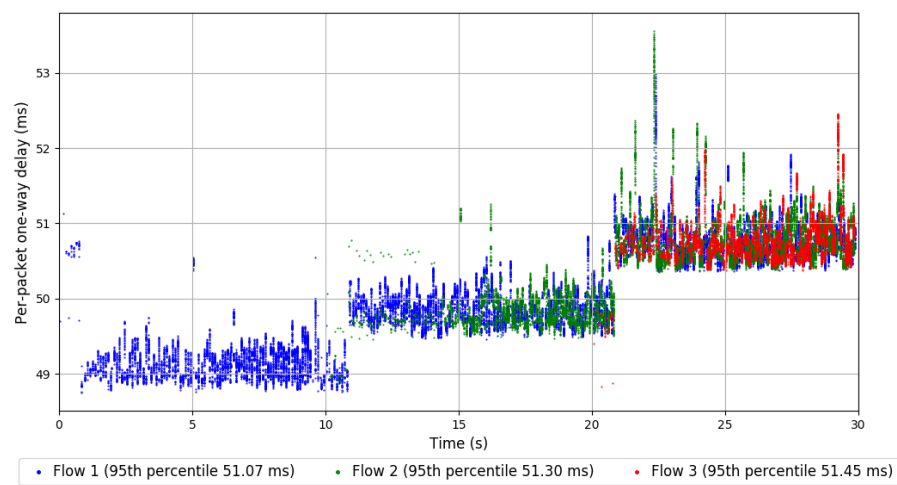
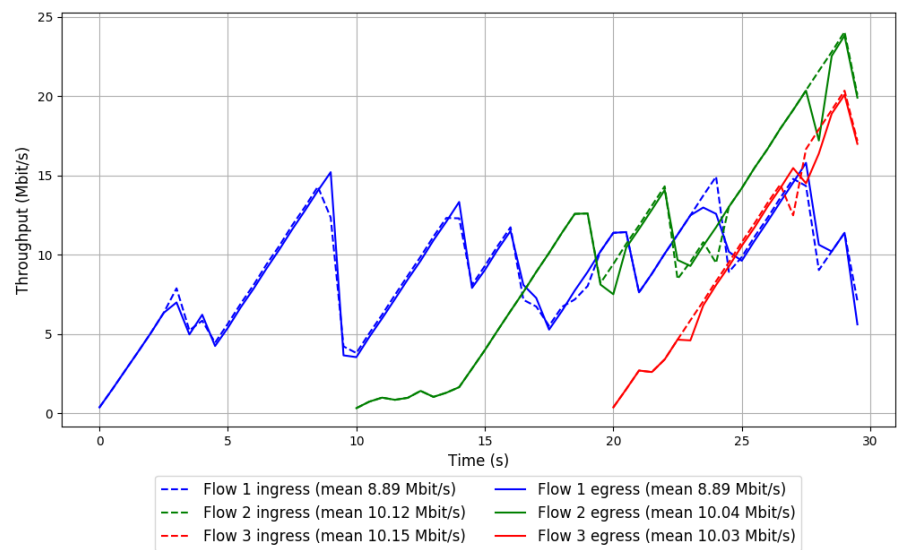
-- Flow 3:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 51.452 ms

Loss rate: 2.18%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-17 01:22:47

End at: 2017-11-17 01:23:17

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.07 Mbit/s

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

Loss rate: 0.87%

-- Flow 1:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 51.253 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.83%

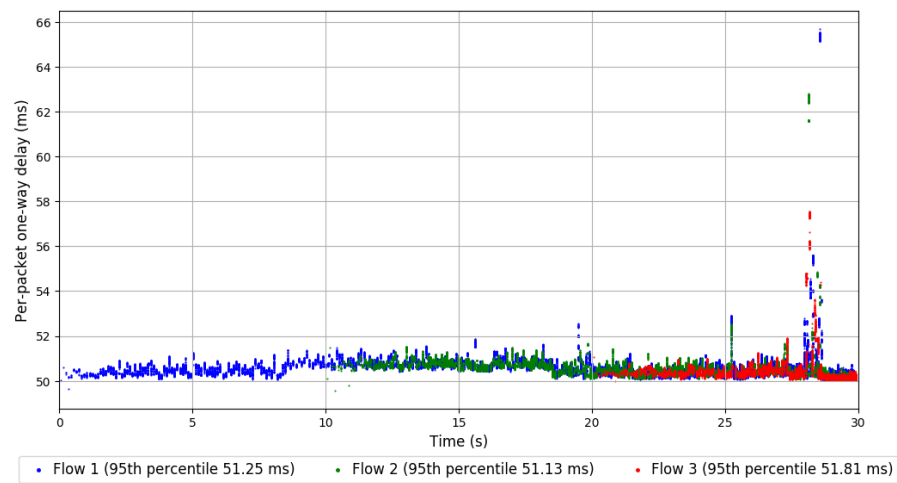
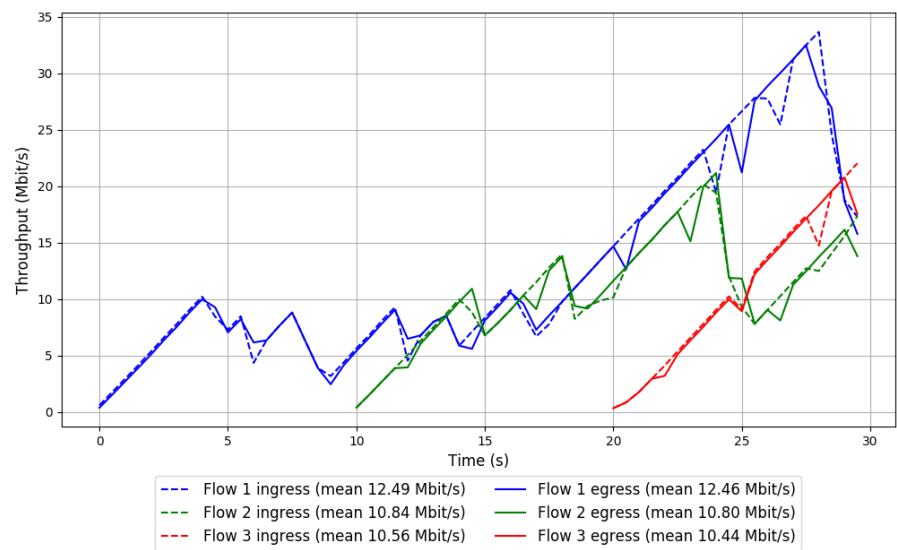
-- Flow 3:

Average throughput: 10.44 Mbit/s

95th percentile per-packet one-way delay: 51.812 ms

Loss rate: 2.15%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-17 01:35:11

End at: 2017-11-17 01:35:41

Below is generated by plot.py at 2017-11-17 03:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 51.156 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 51.302 ms

Loss rate: 1.01%

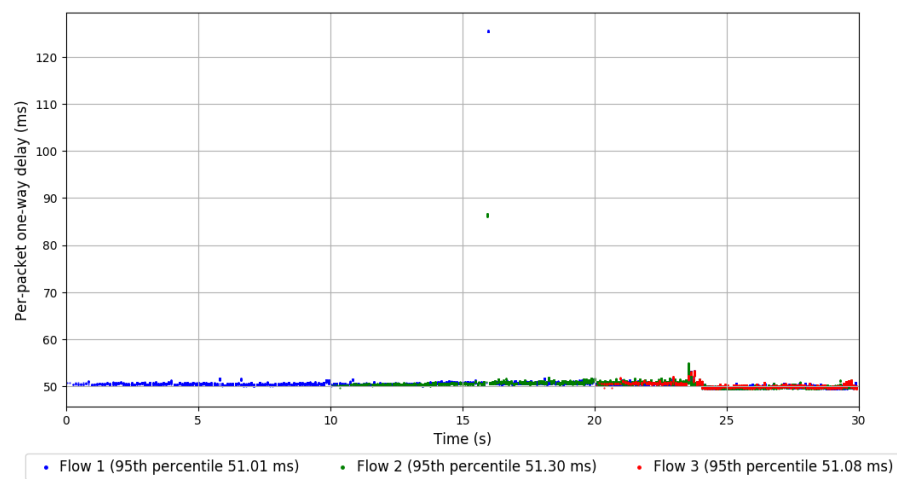
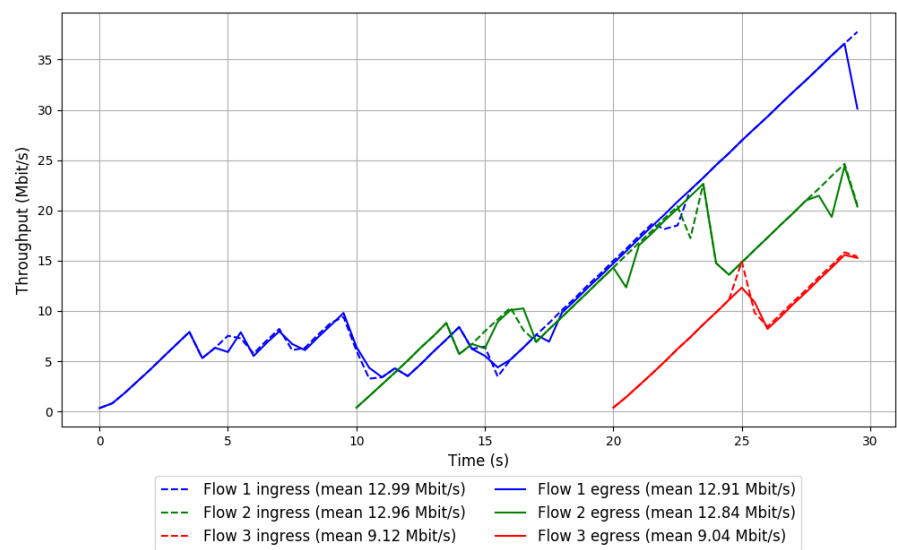
-- Flow 3:

Average throughput: 9.04 Mbit/s

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

Loss rate: 1.88%

Run 10: Report of LEDBAT — Data Link

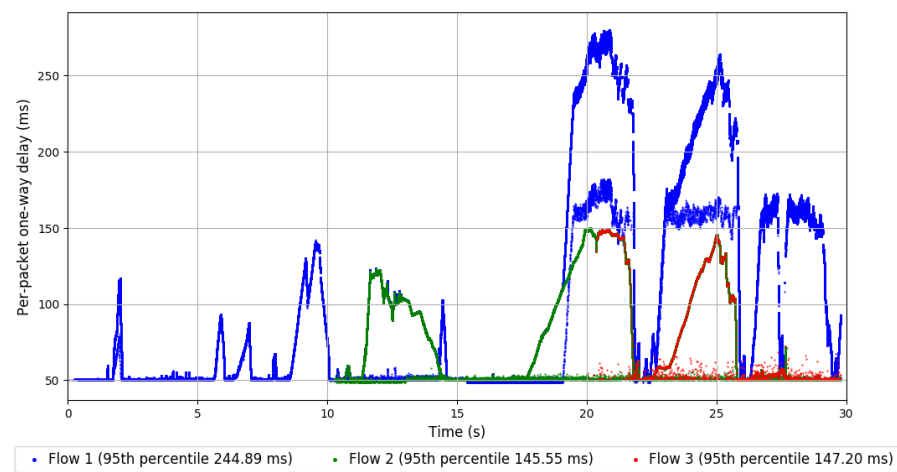
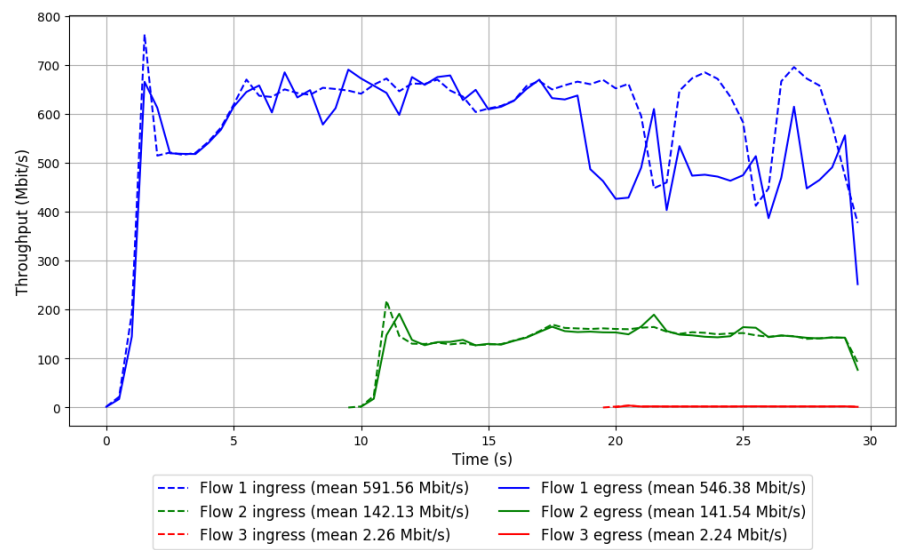


```
Run 1: Statistics of PCC

Start at: 2017-11-16 23:46:02
End at: 2017-11-16 23:46:32

# Below is generated by plot.py at 2017-11-17 04:08:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 641.12 Mbit/s
95th percentile per-packet one-way delay: 241.062 ms
Loss rate: 6.97%
-- Flow 1:
Average throughput: 546.38 Mbit/s
95th percentile per-packet one-way delay: 244.889 ms
Loss rate: 7.95%
-- Flow 2:
Average throughput: 141.54 Mbit/s
95th percentile per-packet one-way delay: 145.553 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 147.197 ms
Loss rate: 1.99%
```

Run 1: Report of PCC — Data Link

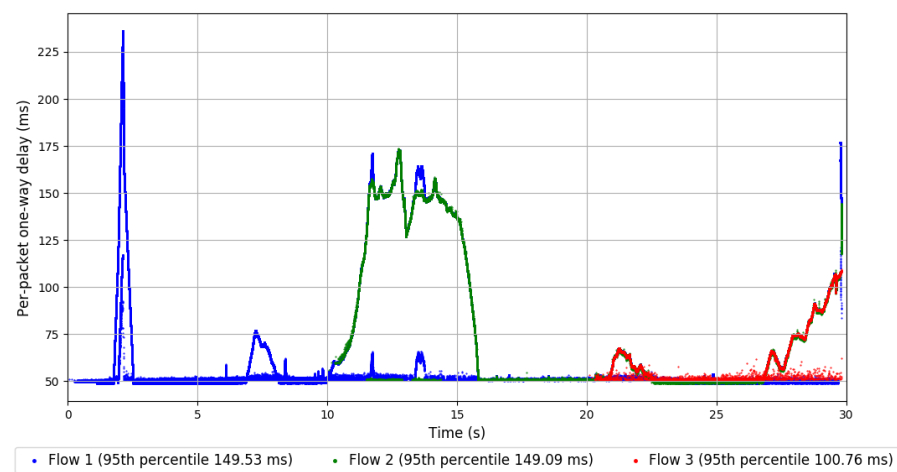
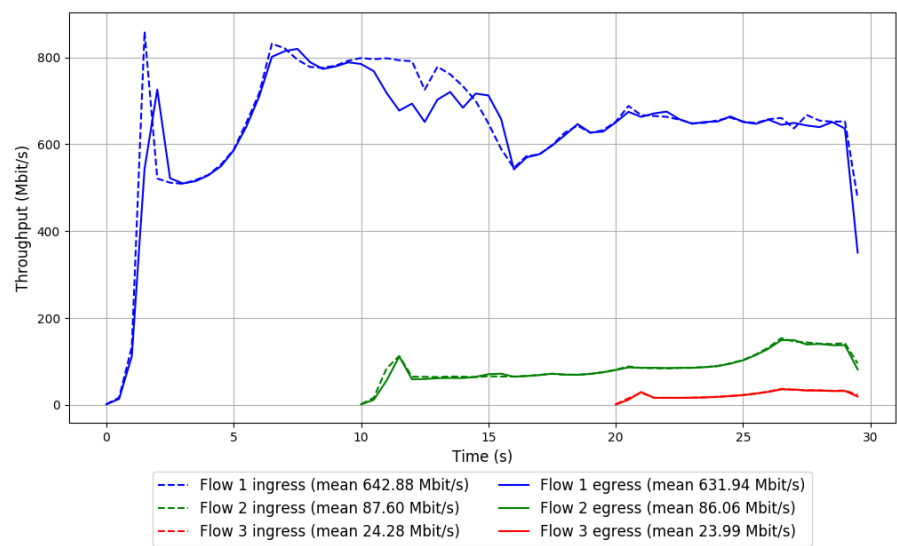


```
Run 2: Statistics of PCC

Start at: 2017-11-16 23:58:24
End at: 2017-11-16 23:58:54

# Below is generated by plot.py at 2017-11-17 04:09:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 696.84 Mbit/s
95th percentile per-packet one-way delay: 149.377 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 631.94 Mbit/s
95th percentile per-packet one-way delay: 149.526 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 149.091 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 100.759 ms
Loss rate: 2.24%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-17 00:11:01

End at: 2017-11-17 00:11:31

Below is generated by plot.py at 2017-11-17 04:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 688.01 Mbit/s

95th percentile per-packet one-way delay: 189.738 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 624.61 Mbit/s

95th percentile per-packet one-way delay: 193.326 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 69.82 Mbit/s

95th percentile per-packet one-way delay: 149.825 ms

Loss rate: 2.86%

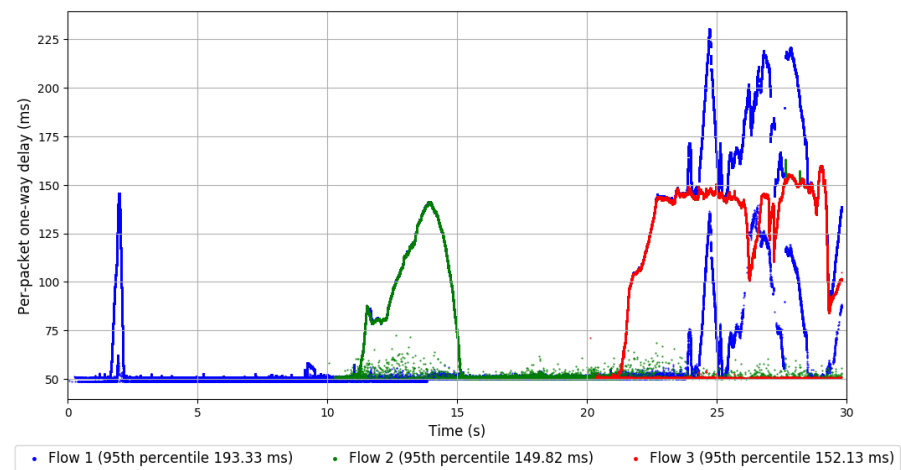
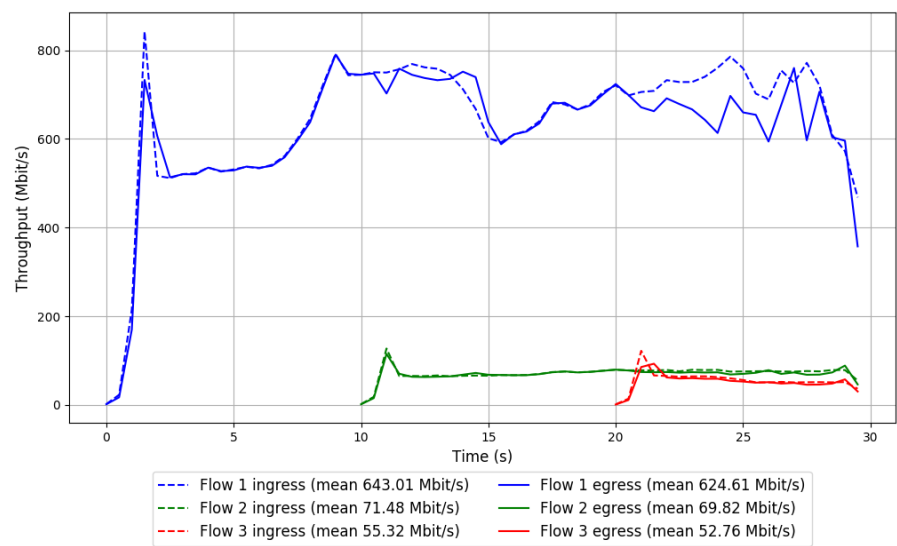
-- Flow 3:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 152.131 ms

Loss rate: 5.76%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-17 00:23:11

End at: 2017-11-17 00:23:41

Below is generated by plot.py at 2017-11-17 04:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 721.36 Mbit/s

95th percentile per-packet one-way delay: 162.382 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 697.92 Mbit/s

95th percentile per-packet one-way delay: 162.641 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 145.519 ms

Loss rate: 0.94%

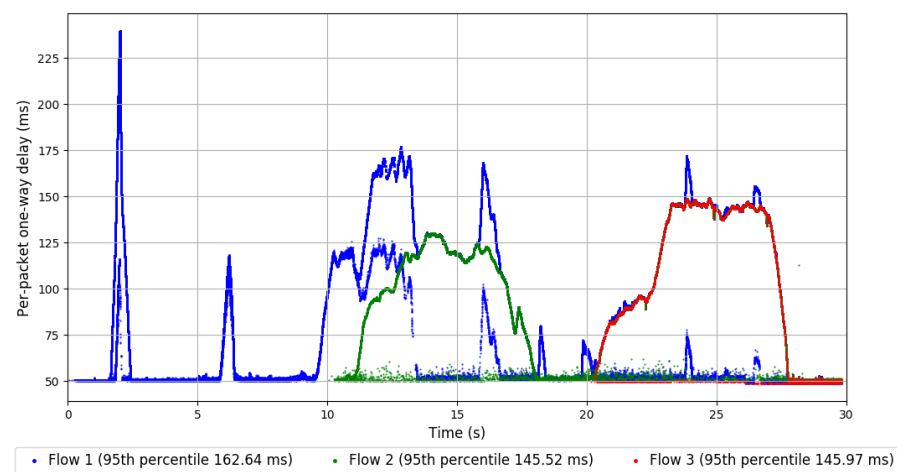
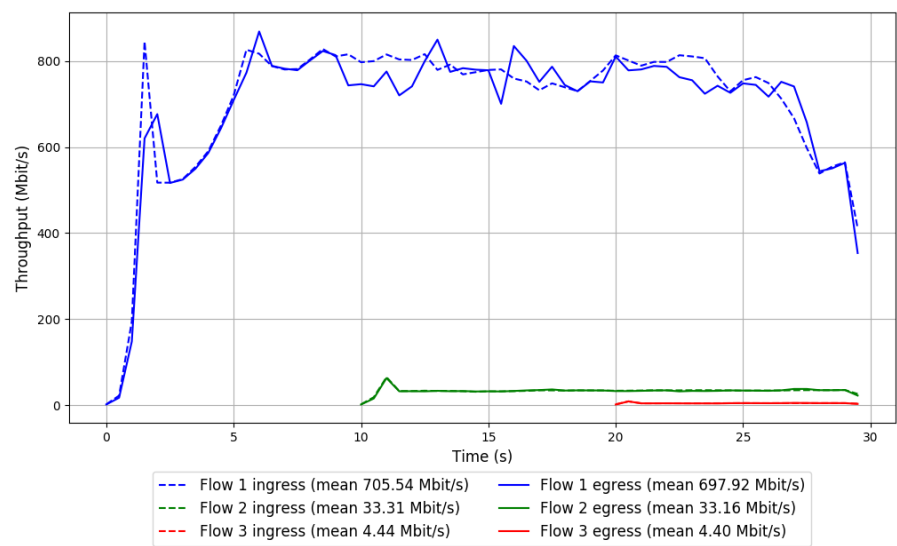
-- Flow 3:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 145.965 ms

Loss rate: 1.88%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-17 00:35:43

End at: 2017-11-17 00:36:13

Below is generated by plot.py at 2017-11-17 04:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 666.83 Mbit/s

95th percentile per-packet one-way delay: 169.825 ms

Loss rate: 4.07%

-- Flow 1:

Average throughput: 613.23 Mbit/s

95th percentile per-packet one-way delay: 169.486 ms

Loss rate: 3.93%

-- Flow 2:

Average throughput: 66.64 Mbit/s

95th percentile per-packet one-way delay: 170.935 ms

Loss rate: 4.49%

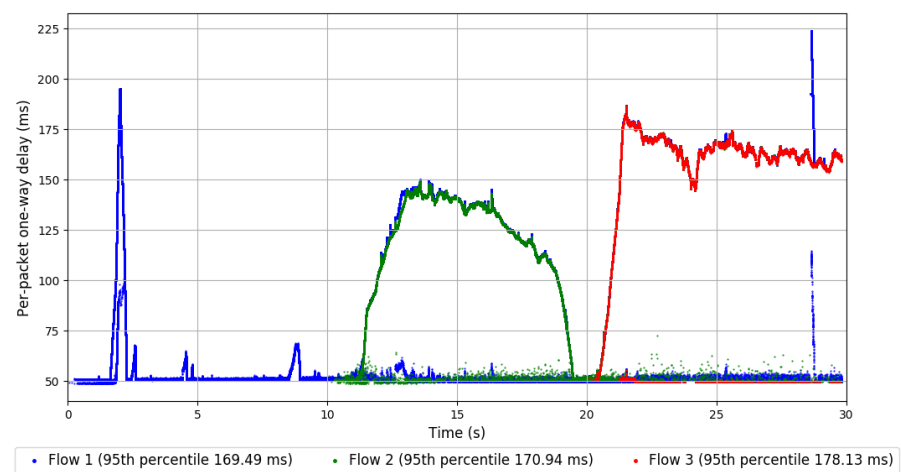
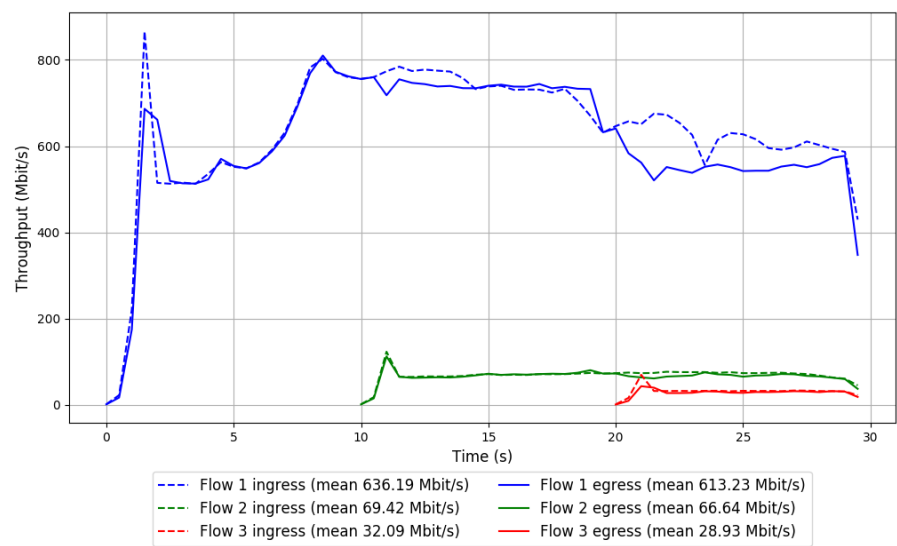
-- Flow 3:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 178.135 ms

Loss rate: 10.76%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-17 00:48:00

End at: 2017-11-17 00:48:30

Below is generated by plot.py at 2017-11-17 04:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 620.47 Mbit/s

95th percentile per-packet one-way delay: 173.569 ms

Loss rate: 3.54%

-- Flow 1:

Average throughput: 533.92 Mbit/s

95th percentile per-packet one-way delay: 173.412 ms

Loss rate: 3.53%

-- Flow 2:

Average throughput: 129.35 Mbit/s

95th percentile per-packet one-way delay: 174.248 ms

Loss rate: 3.60%

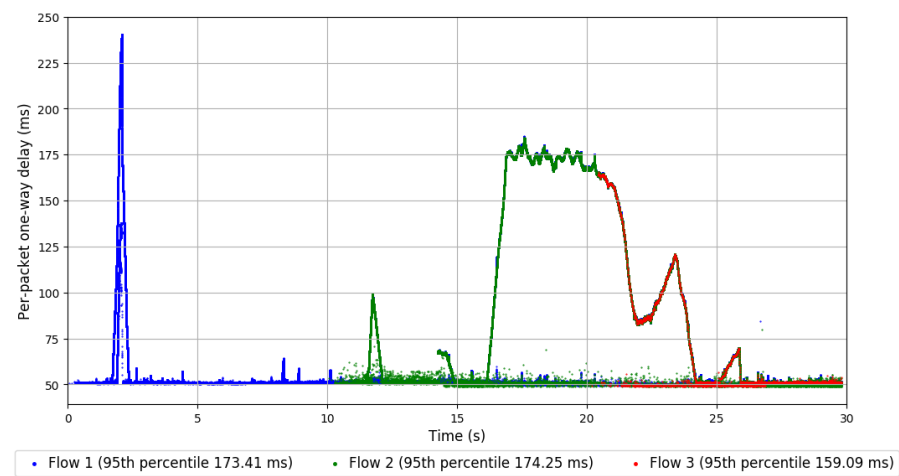
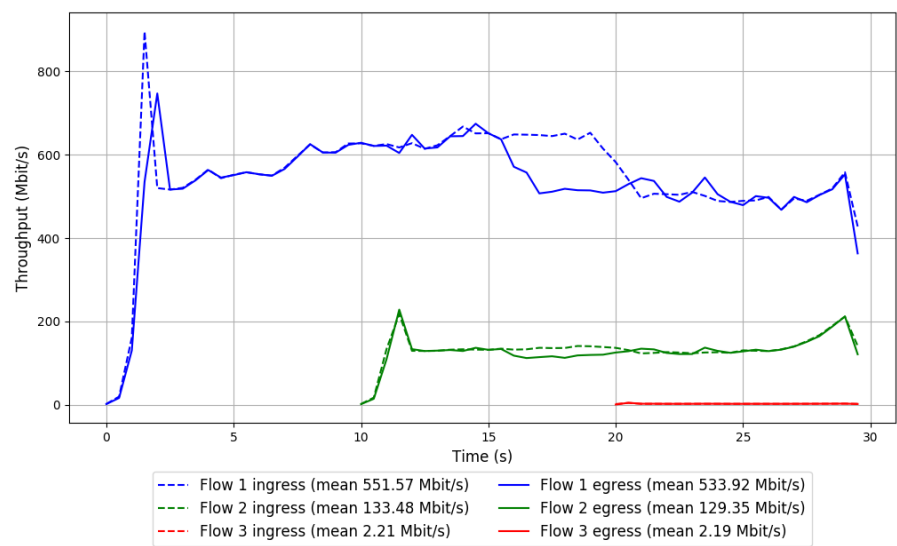
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 159.087 ms

Loss rate: 1.60%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-17 01:00:05

End at: 2017-11-17 01:00:35

Below is generated by plot.py at 2017-11-17 04:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 663.07 Mbit/s

95th percentile per-packet one-way delay: 173.149 ms

Loss rate: 5.23%

-- Flow 1:

Average throughput: 577.97 Mbit/s

95th percentile per-packet one-way delay: 173.144 ms

Loss rate: 5.10%

-- Flow 2:

Average throughput: 126.42 Mbit/s

95th percentile per-packet one-way delay: 173.150 ms

Loss rate: 6.02%

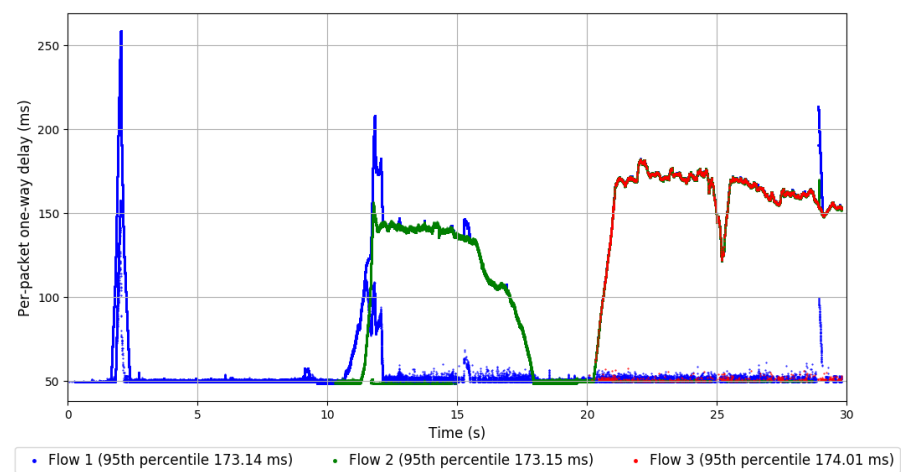
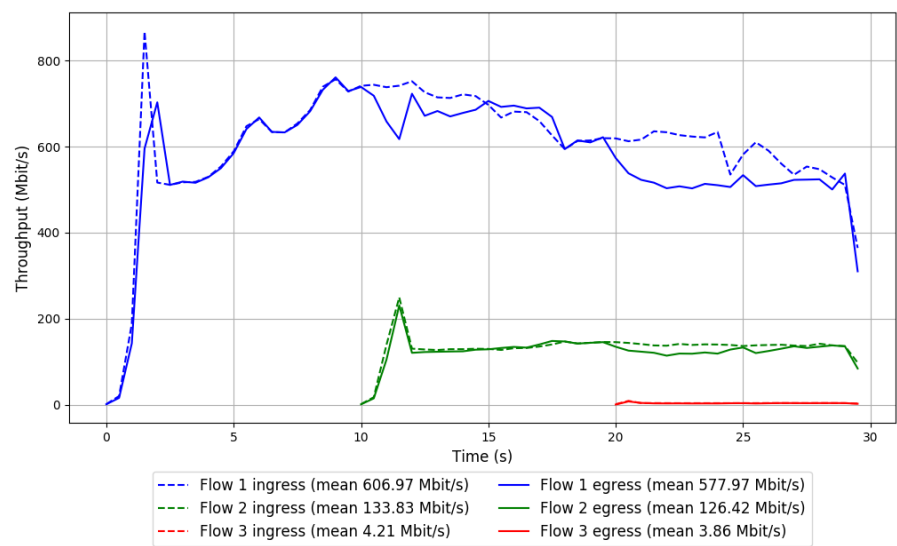
-- Flow 3:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 174.010 ms

Loss rate: 9.33%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-17 01:12:14

End at: 2017-11-17 01:12:44

Below is generated by plot.py at 2017-11-17 04:11:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 727.38 Mbit/s

95th percentile per-packet one-way delay: 187.637 ms

Loss rate: 3.17%

-- Flow 1:

Average throughput: 656.00 Mbit/s

95th percentile per-packet one-way delay: 188.255 ms

Loss rate: 3.37%

-- Flow 2:

Average throughput: 69.56 Mbit/s

95th percentile per-packet one-way delay: 141.070 ms

Loss rate: 1.14%

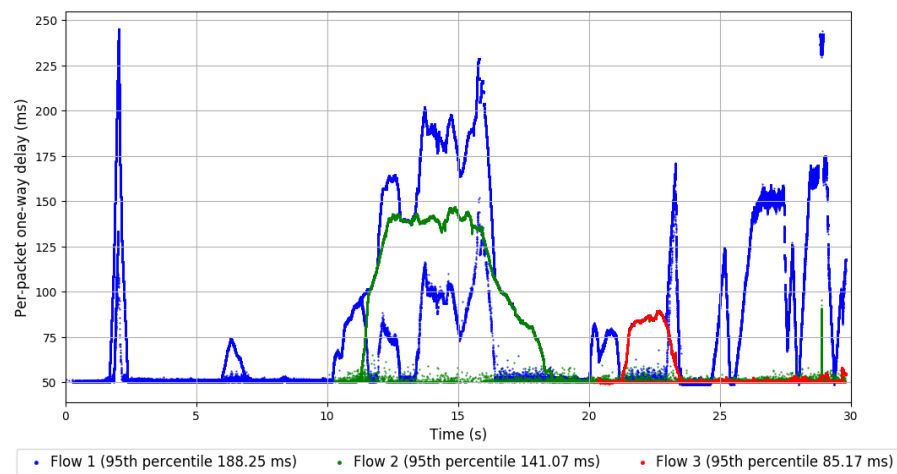
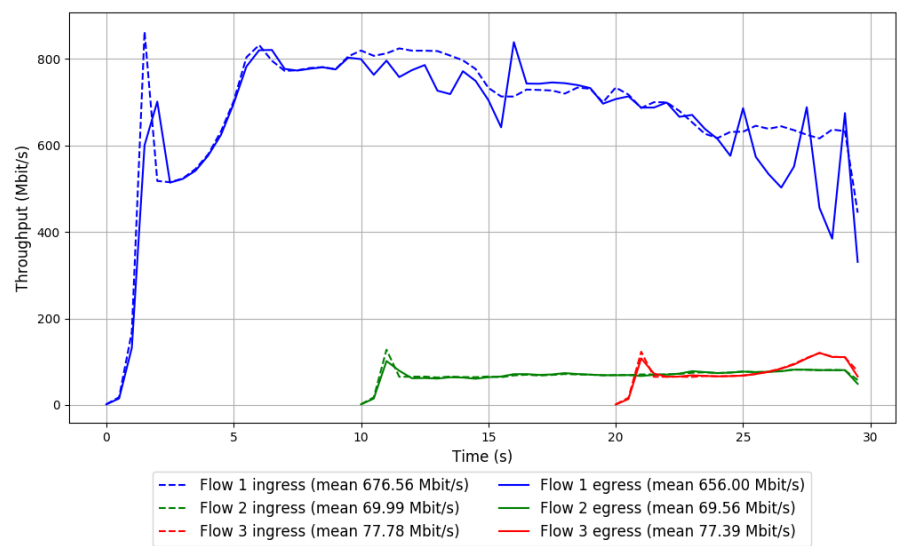
-- Flow 3:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 85.166 ms

Loss rate: 1.51%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-17 01:24:47

End at: 2017-11-17 01:25:17

Below is generated by plot.py at 2017-11-17 04:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 647.65 Mbit/s

95th percentile per-packet one-way delay: 164.635 ms

Loss rate: 3.05%

-- Flow 1:

Average throughput: 579.40 Mbit/s

95th percentile per-packet one-way delay: 163.749 ms

Loss rate: 3.14%

-- Flow 2:

Average throughput: 101.85 Mbit/s

95th percentile per-packet one-way delay: 170.268 ms

Loss rate: 2.30%

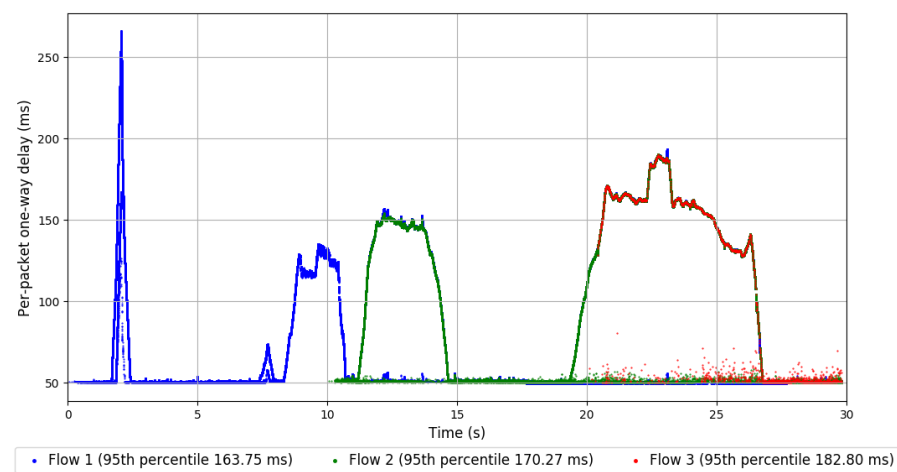
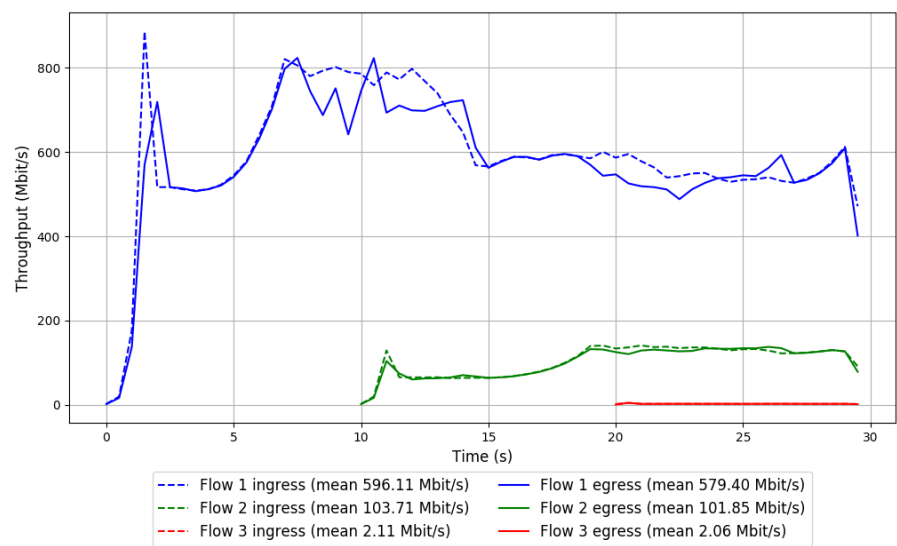
-- Flow 3:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 182.800 ms

Loss rate: 3.56%

Run 9: Report of PCC — Data Link

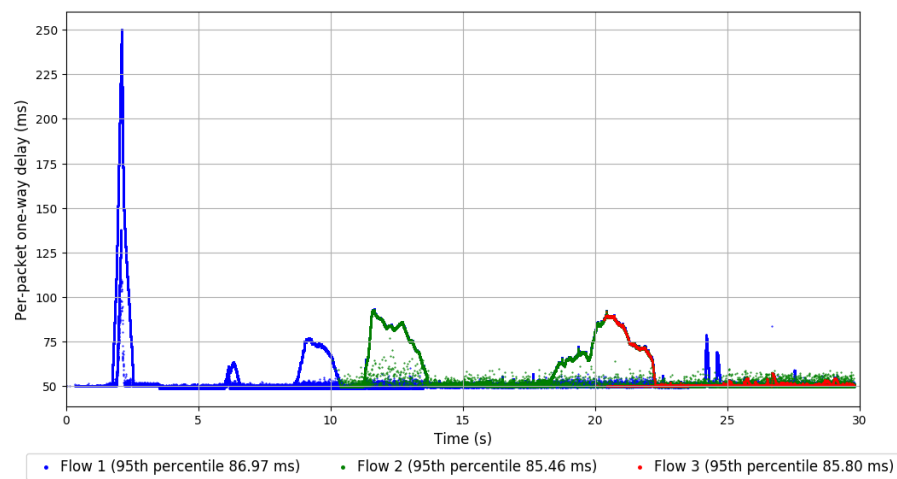
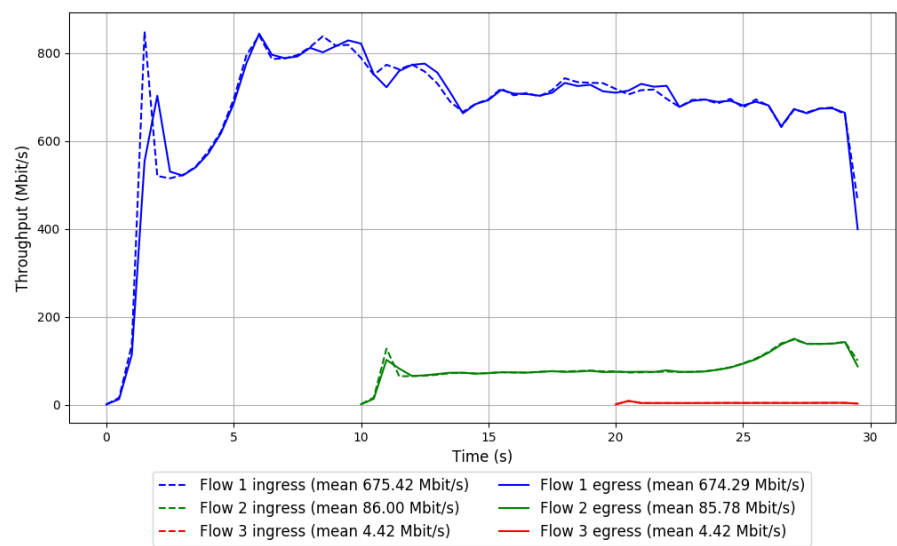


```
Run 10: Statistics of PCC

Start at: 2017-11-17 01:37:11
End at: 2017-11-17 01:37:41

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 732.60 Mbit/s
95th percentile per-packet one-way delay: 86.758 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 674.29 Mbit/s
95th percentile per-packet one-way delay: 86.967 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 85.78 Mbit/s
95th percentile per-packet one-way delay: 85.463 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 85.804 ms
Loss rate: 1.05%
```

Run 10: Report of PCC — Data Link

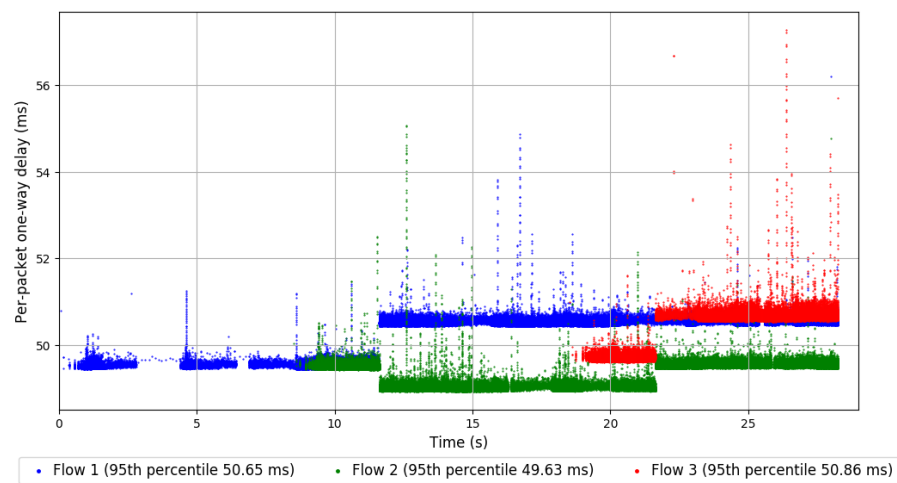
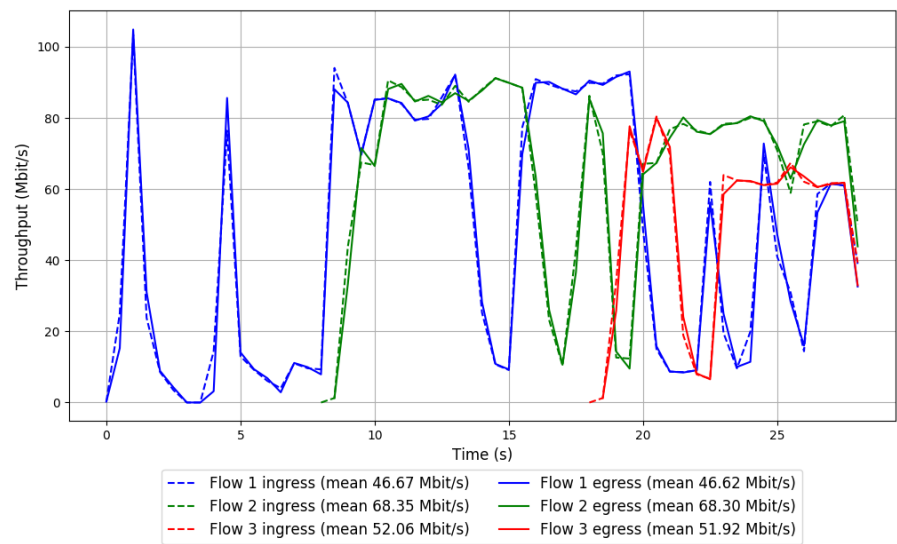


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 23:36:14
End at: 2017-11-16 23:36:44

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.36 Mbit/s
95th percentile per-packet one-way delay: 50.695 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 46.62 Mbit/s
95th percentile per-packet one-way delay: 50.653 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 49.632 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 1.24%
```


Run 1: Report of QUIC Cubic — Data Link

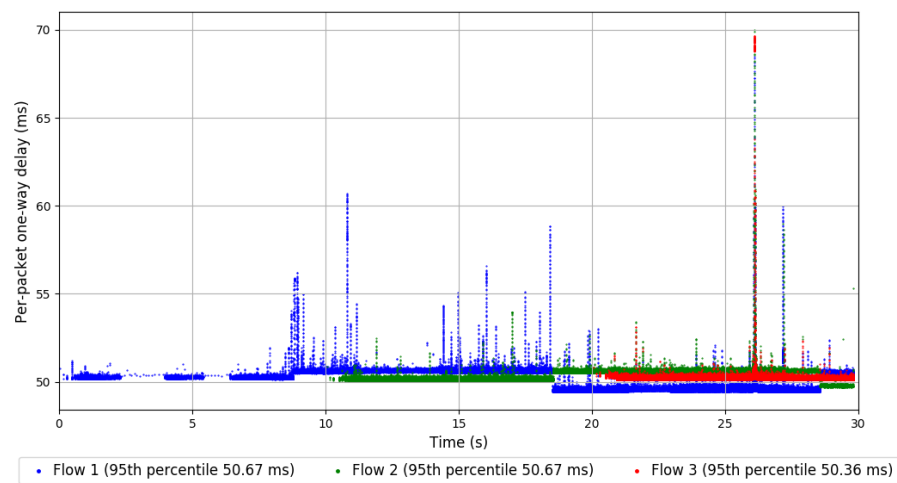
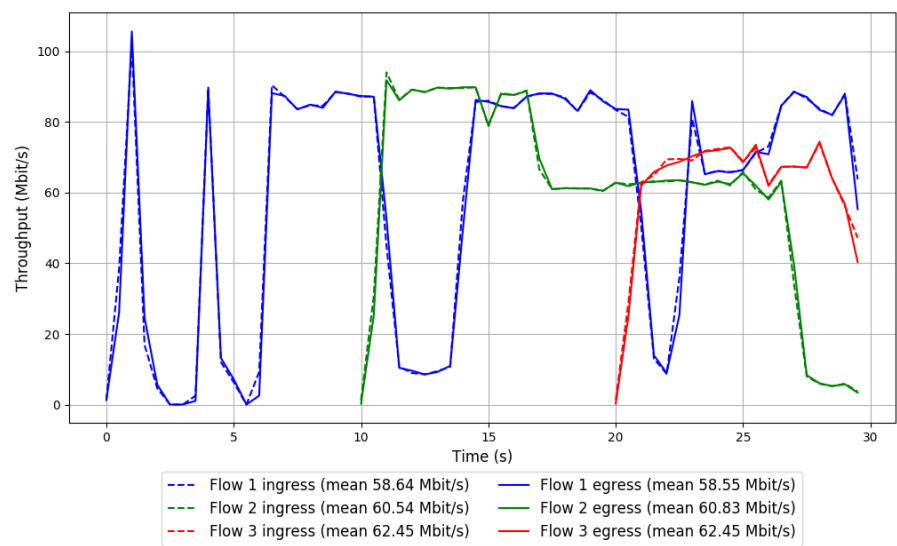


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 23:48:26
End at: 2017-11-16 23:48:56

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.36 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 50.674 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 50.670 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 62.45 Mbit/s
95th percentile per-packet one-way delay: 50.363 ms
Loss rate: 1.04%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-17 00:00:50

End at: 2017-11-17 00:01:20

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.36 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 50.341 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 72.97 Mbit/s

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

Loss rate: 0.59%

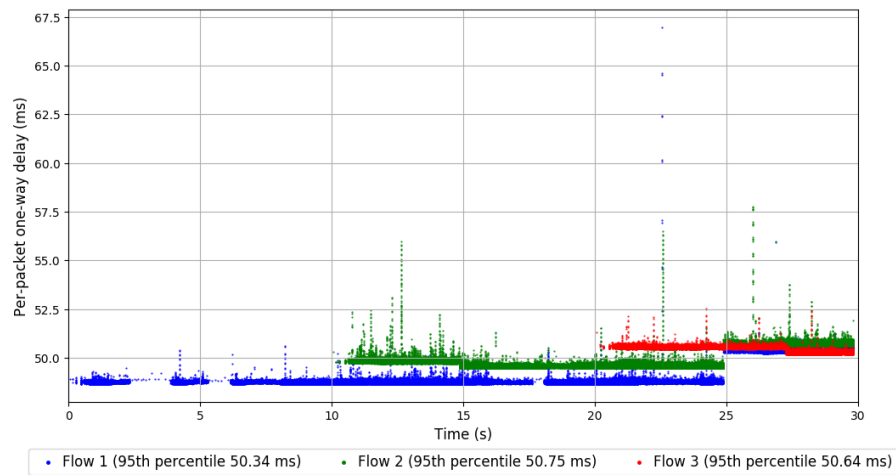
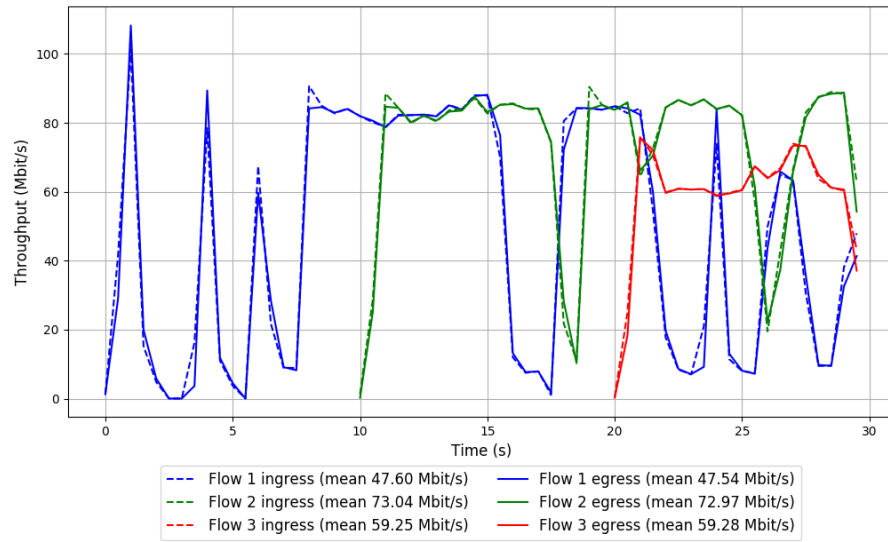
-- Flow 3:

Average throughput: 59.28 Mbit/s

95th percentile per-packet one-way delay: 50.637 ms

Loss rate: 1.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-17 00:13:27

End at: 2017-11-17 00:13:57

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.63 Mbit/s

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

Loss rate: 0.62%

-- Flow 1:

Average throughput: 70.13 Mbit/s

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

Loss rate: 0.29%

-- Flow 2:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.76%

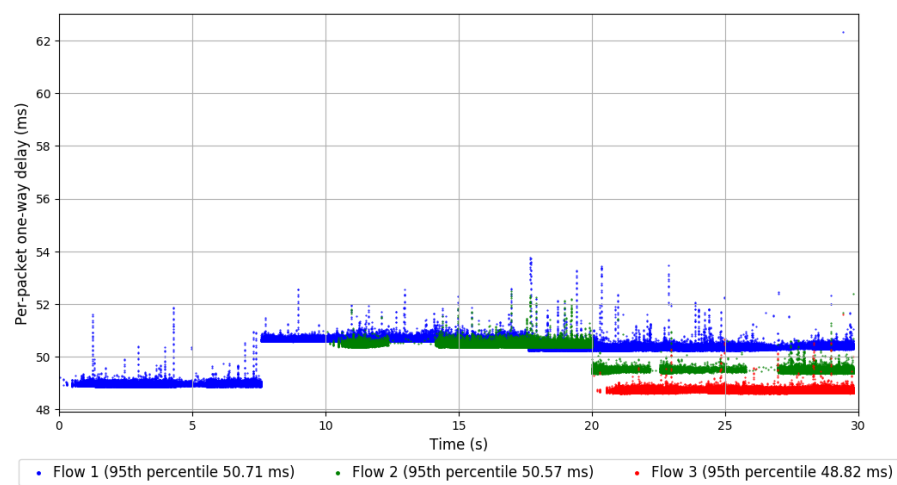
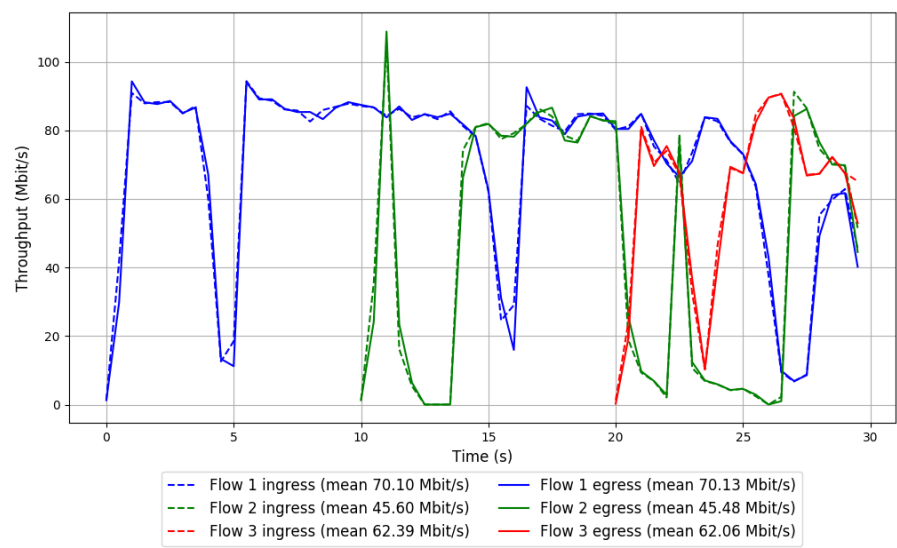
-- Flow 3:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 48.824 ms

Loss rate: 1.53%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-17 00:25:38

End at: 2017-11-17 00:26:08

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.59 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 50.688 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 50.384 ms

Loss rate: 0.99%

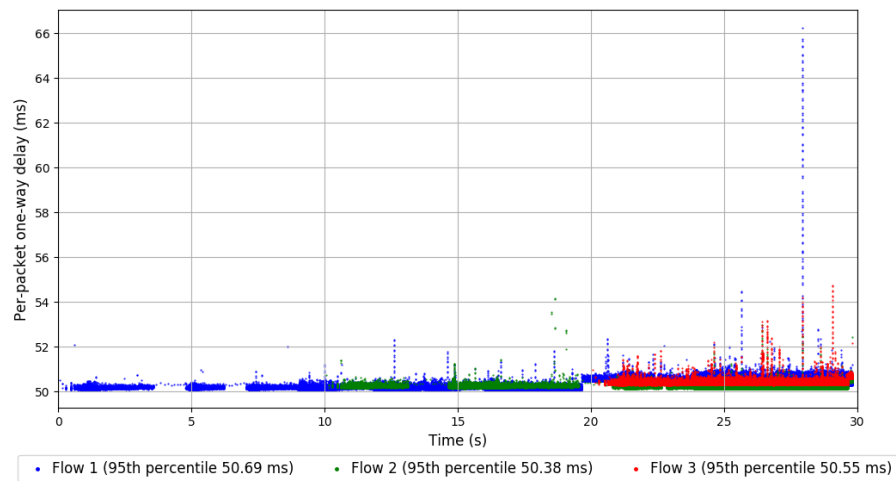
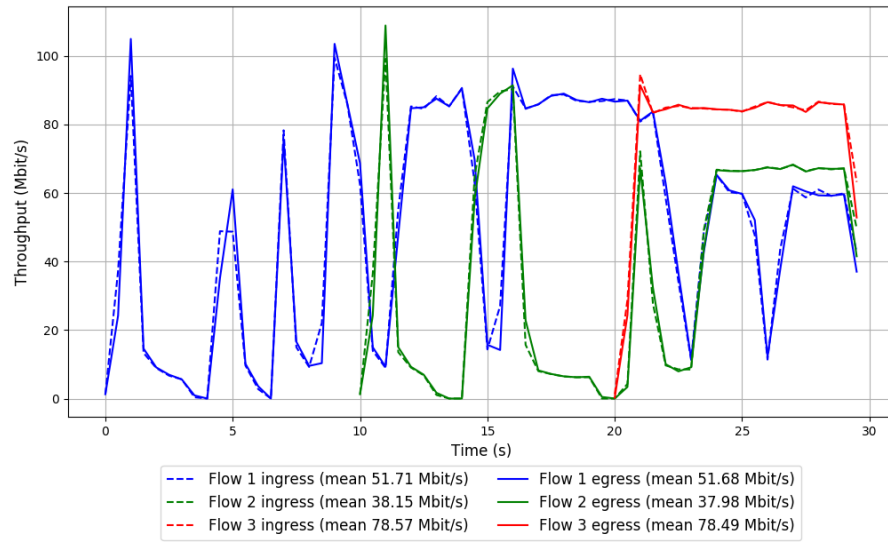
-- Flow 3:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 50.548 ms

Loss rate: 1.24%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-17 00:38:09

End at: 2017-11-17 00:38:39

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.20 Mbit/s

95th percentile per-packet one-way delay: 50.439 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 57.58 Mbit/s

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

Loss rate: 0.50%

-- Flow 2:

Average throughput: 40.49 Mbit/s

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

Loss rate: 0.17%

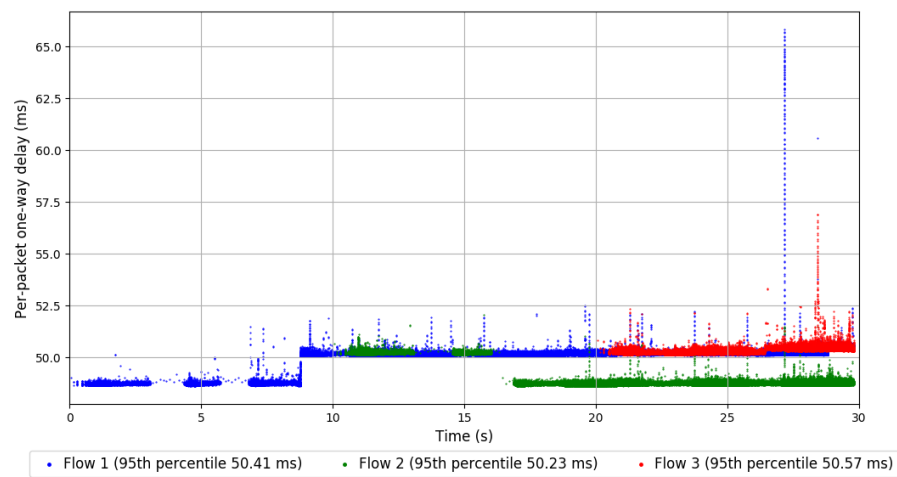
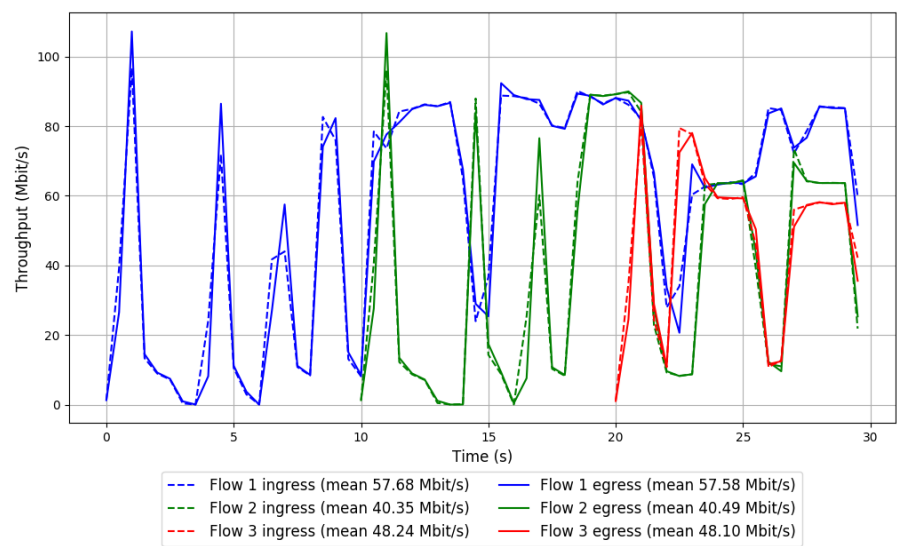
-- Flow 3:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 50.571 ms

Loss rate: 1.32%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-17 00:50:24

End at: 2017-11-17 00:50:54

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.10 Mbit/s

95th percentile per-packet one-way delay: 50.786 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 50.451 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 60.45 Mbit/s

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

Loss rate: 0.10%

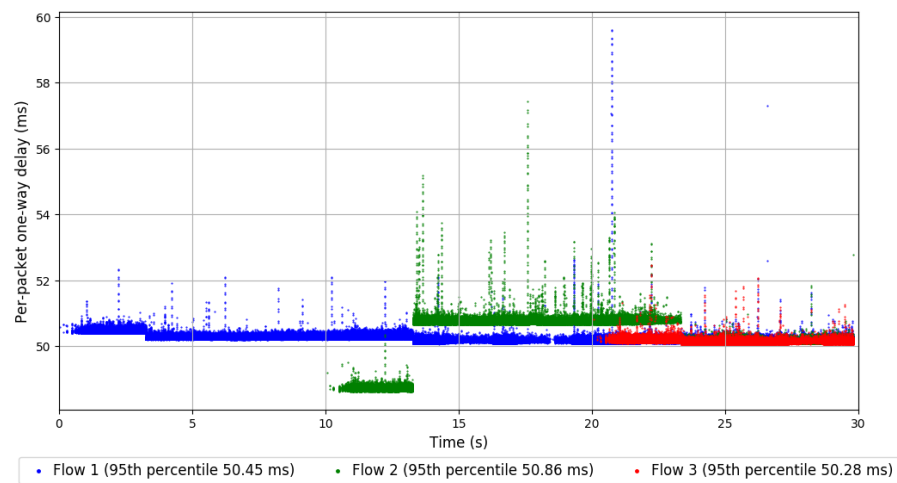
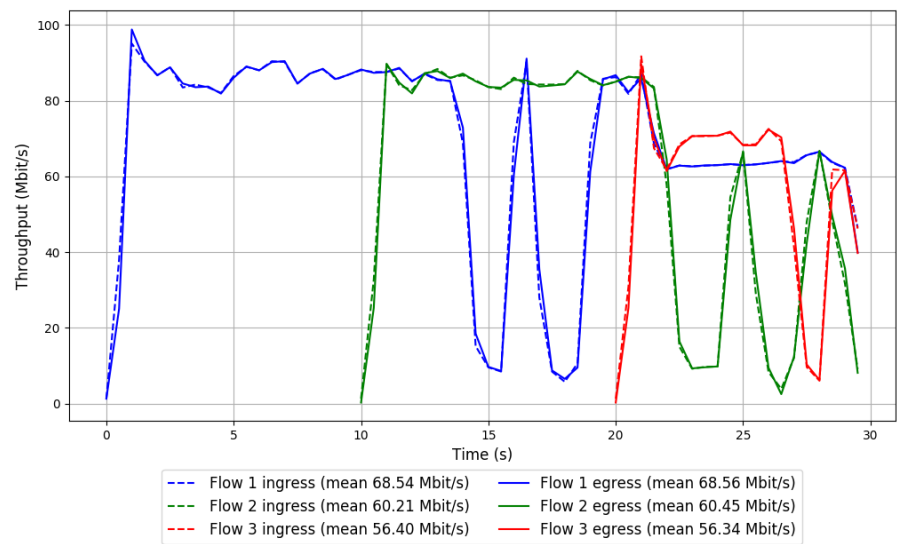
-- Flow 3:

Average throughput: 56.34 Mbit/s

95th percentile per-packet one-way delay: 50.280 ms

Loss rate: 1.15%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-17 01:02:31

End at: 2017-11-17 01:03:01

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.80 Mbit/s

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

Loss rate: 0.42%

-- Flow 1:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 50.417 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 44.30 Mbit/s

95th percentile per-packet one-way delay: 50.675 ms

Loss rate: 0.63%

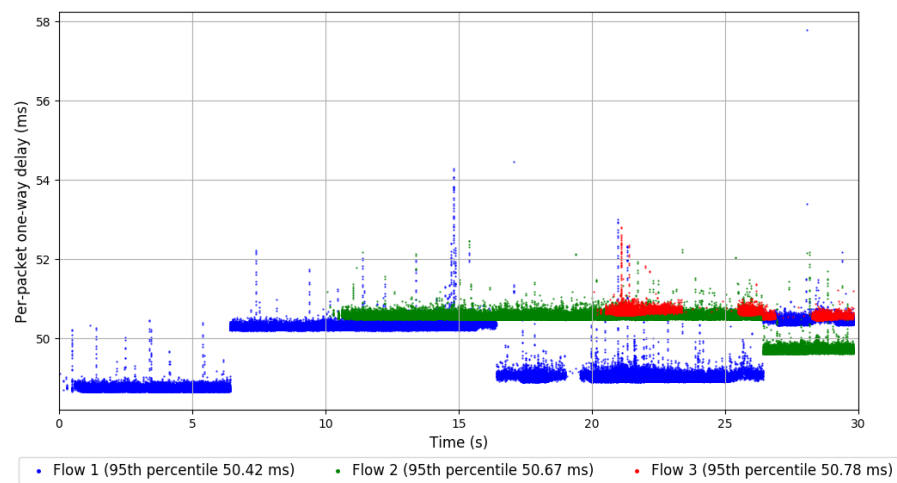
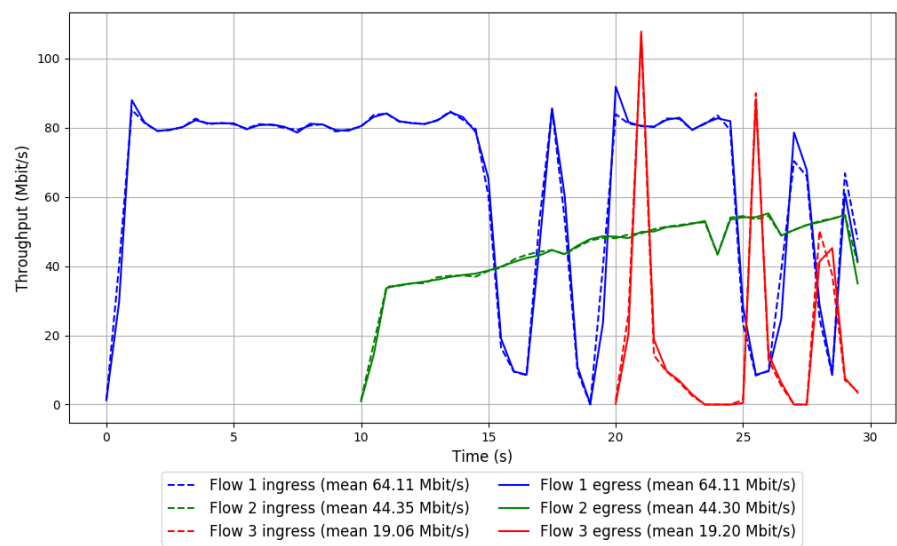
-- Flow 3:

Average throughput: 19.20 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.26%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-17 01:14:42

End at: 2017-11-17 01:15:12

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 50.704 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 51.44 Mbit/s

95th percentile per-packet one-way delay: 50.743 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 50.574 ms

Loss rate: 0.56%

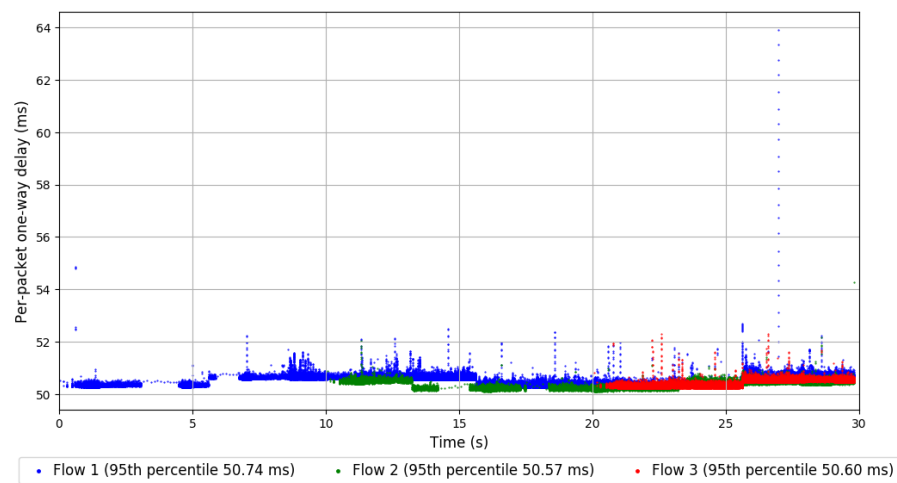
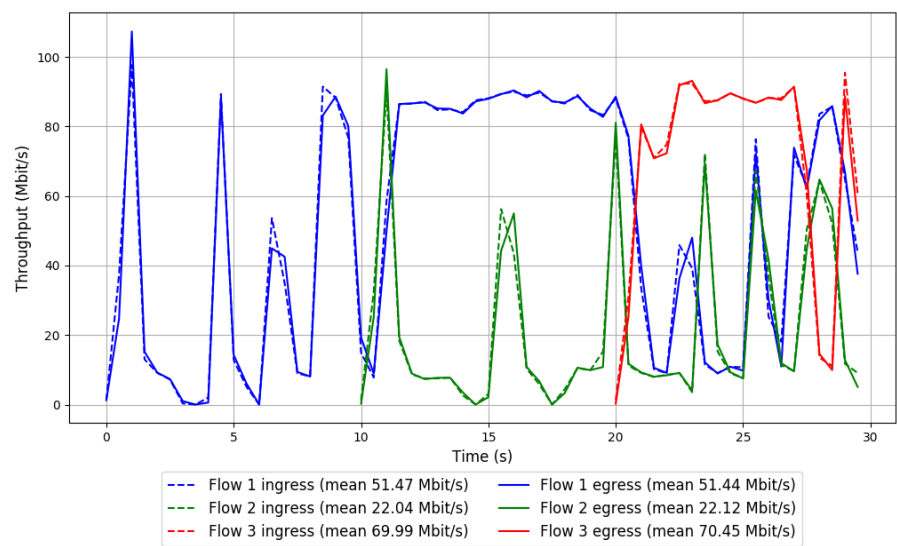
-- Flow 3:

Average throughput: 70.45 Mbit/s

95th percentile per-packet one-way delay: 50.604 ms

Loss rate: 1.21%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-17 01:27:12

End at: 2017-11-17 01:27:42

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.84 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 50.688 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 0.17%

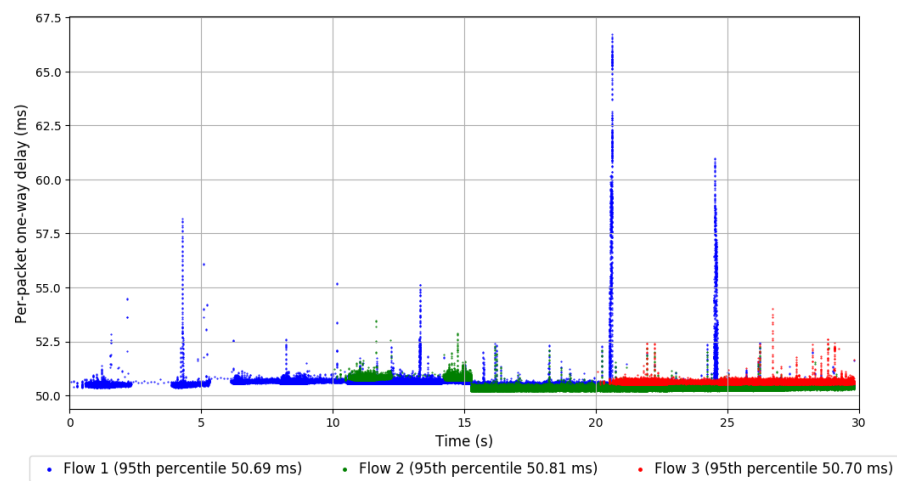
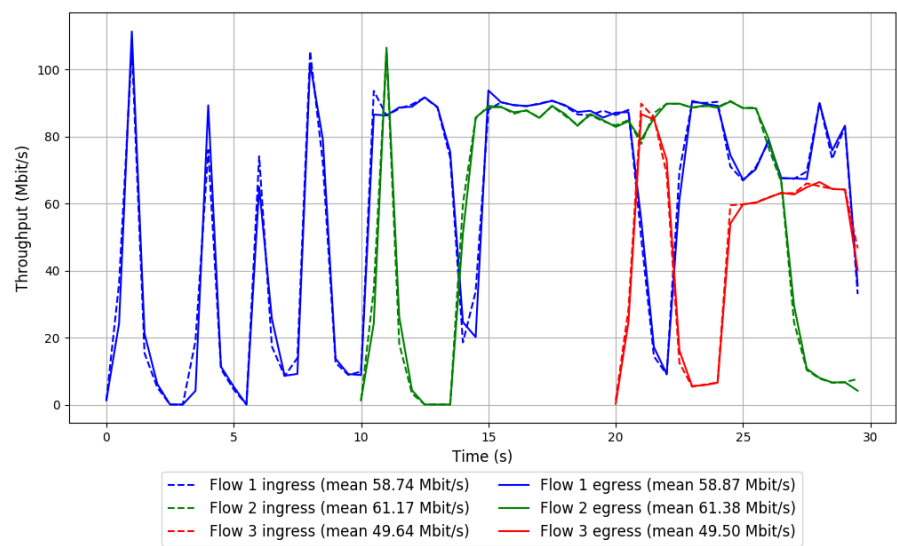
-- Flow 3:

Average throughput: 49.50 Mbit/s

95th percentile per-packet one-way delay: 50.704 ms

Loss rate: 1.32%

Run 10: Report of QUIC Cubic — Data Link

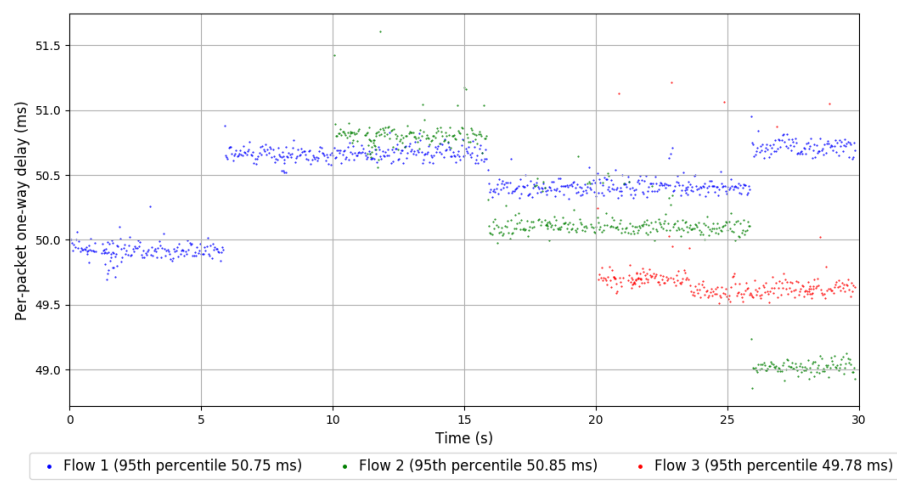
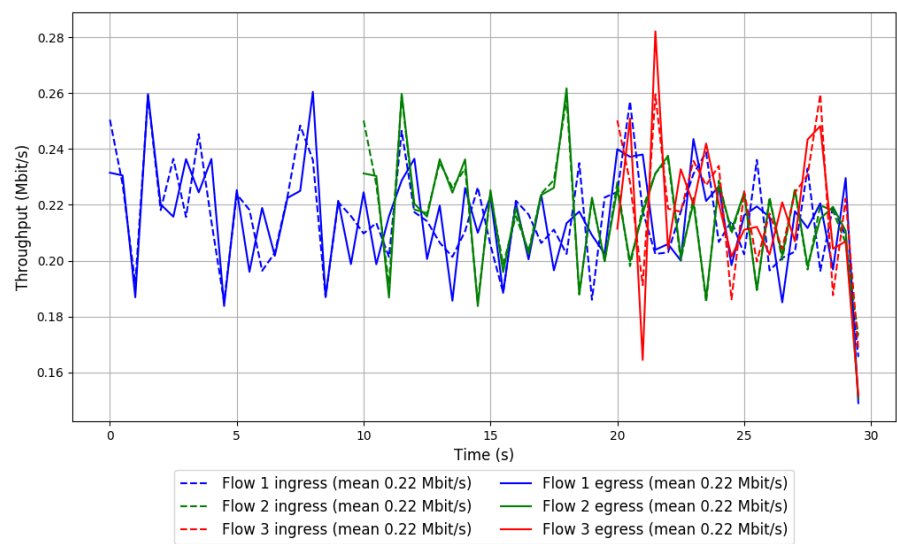


```
Run 1: Statistics of SCReAM

Start at: 2017-11-16 23:39:31
End at: 2017-11-16 23:40:01

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.814 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.747 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.850 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.784 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

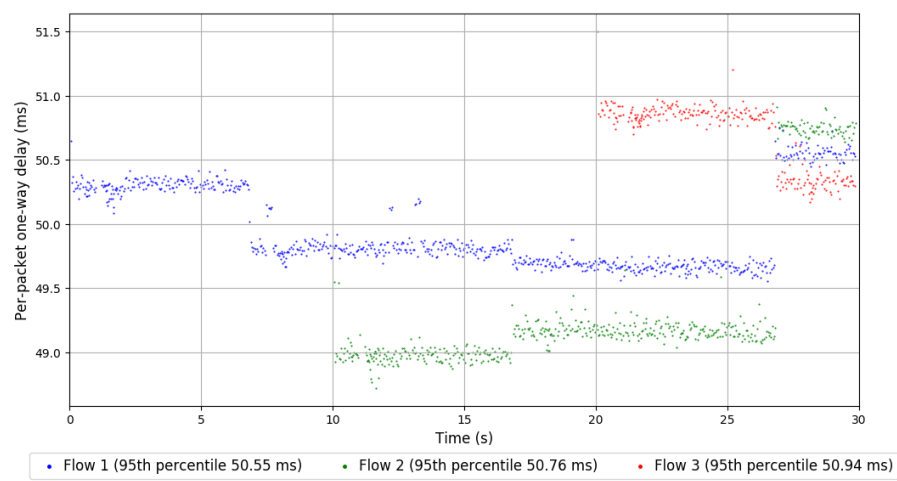
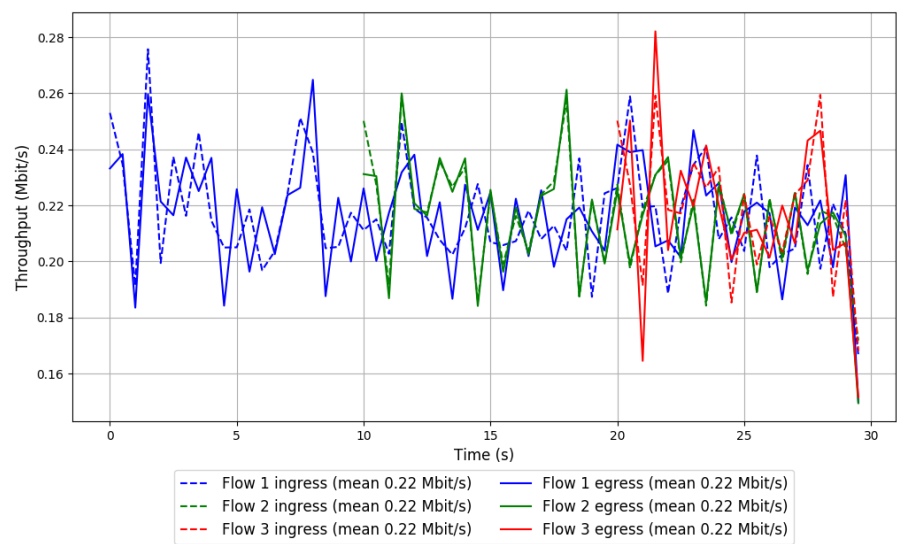


```
Run 2: Statistics of SReAM

Start at: 2017-11-16 23:51:48
End at: 2017-11-16 23:52:18

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.872 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.549 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.944 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-17 00:04:11

End at: 2017-11-17 00:04:41

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.742 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.42%

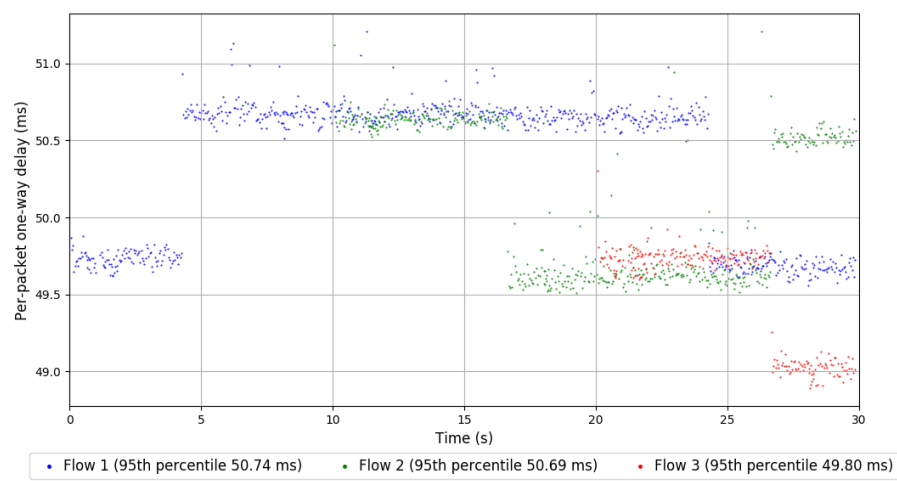
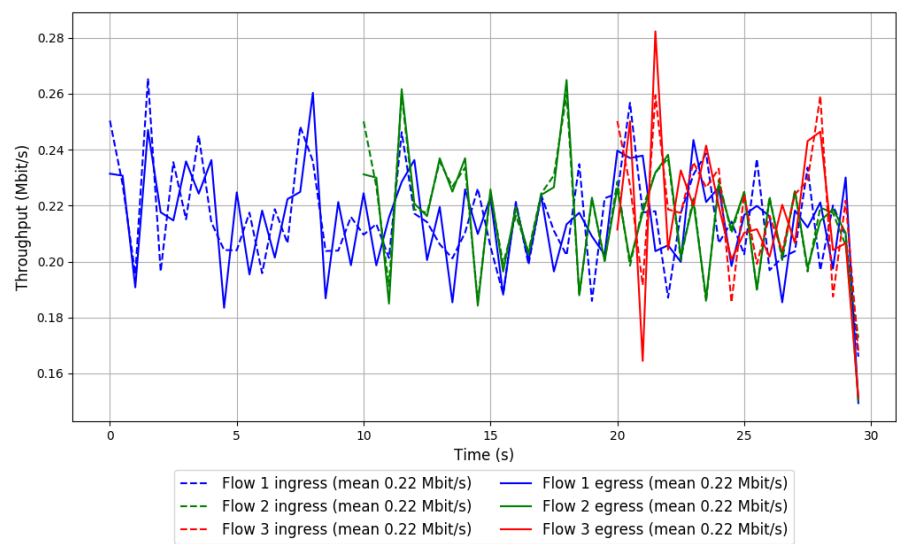
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.803 ms

Loss rate: 1.11%

Run 3: Report of SReAM — Data Link

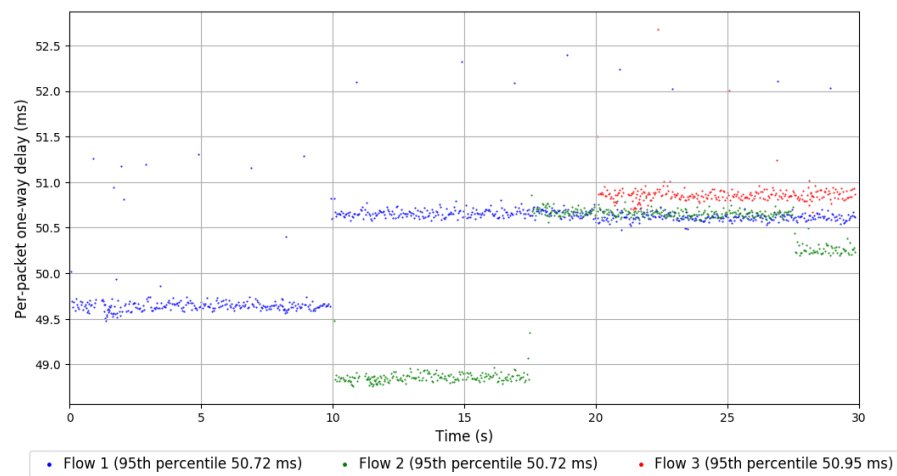
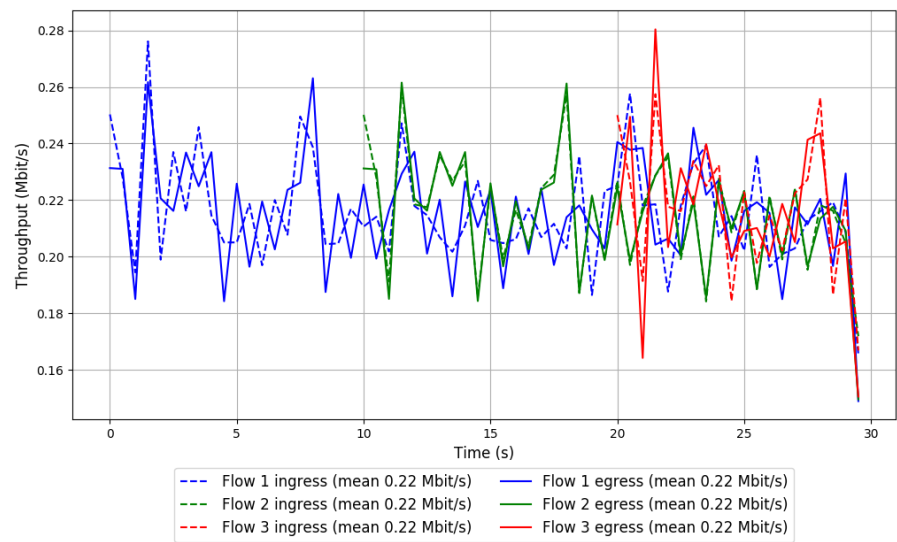


```
Run 4: Statistics of SCReAM

Start at: 2017-11-17 00:16:47
End at: 2017-11-17 00:17:17

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.893 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.723 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.717 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.947 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-17 00:28:59

End at: 2017-11-17 00:29:29

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.644 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.649 ms

Loss rate: 0.42%

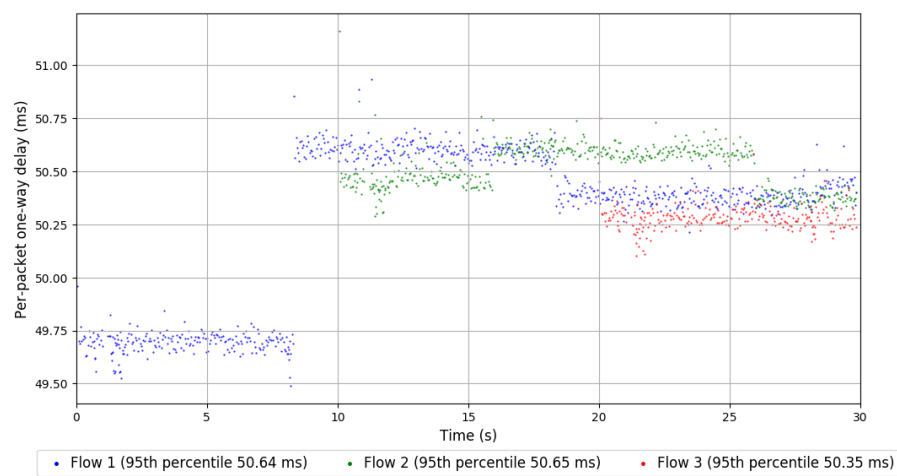
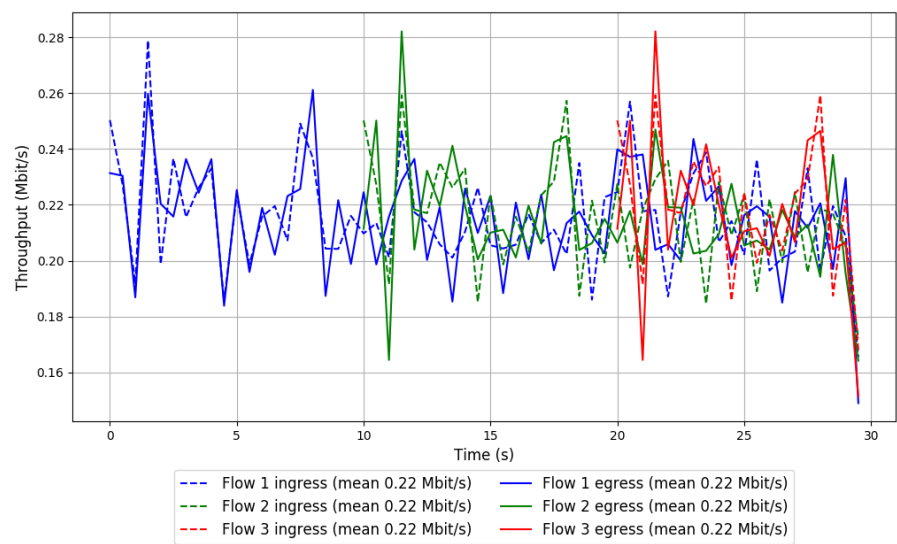
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 1.11%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-17 00:41:26

End at: 2017-11-17 00:41:56

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.953 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.982 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.42%

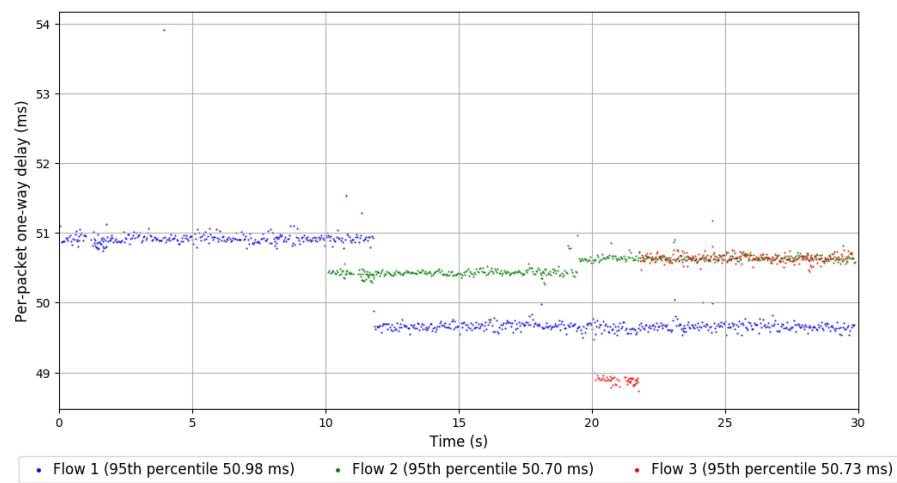
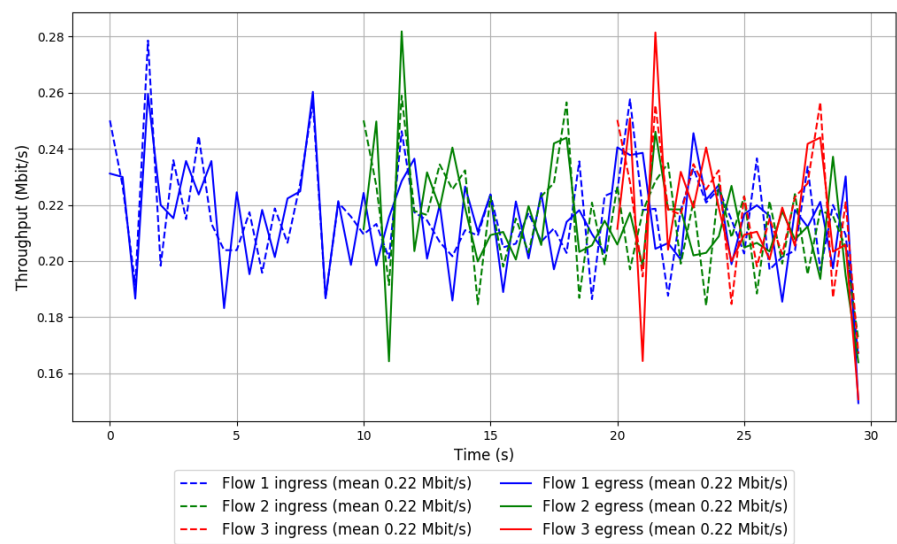
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 1.11%

Run 6: Report of SReAM — Data Link

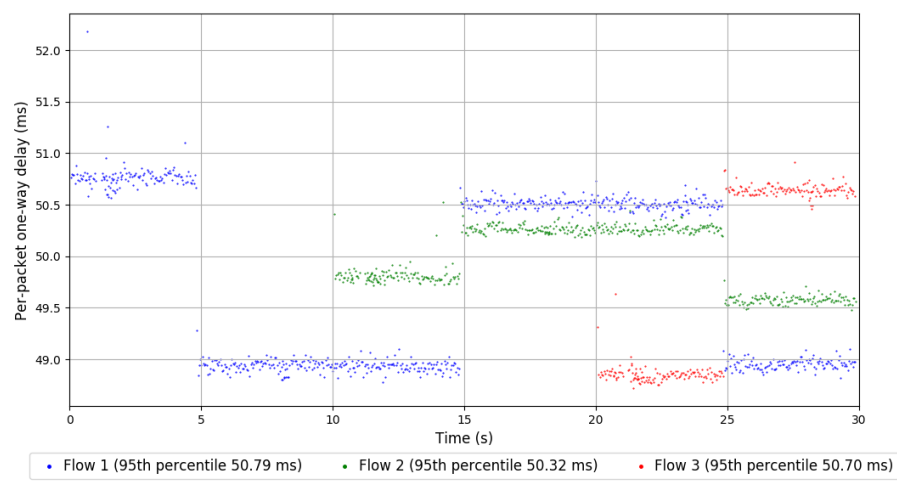
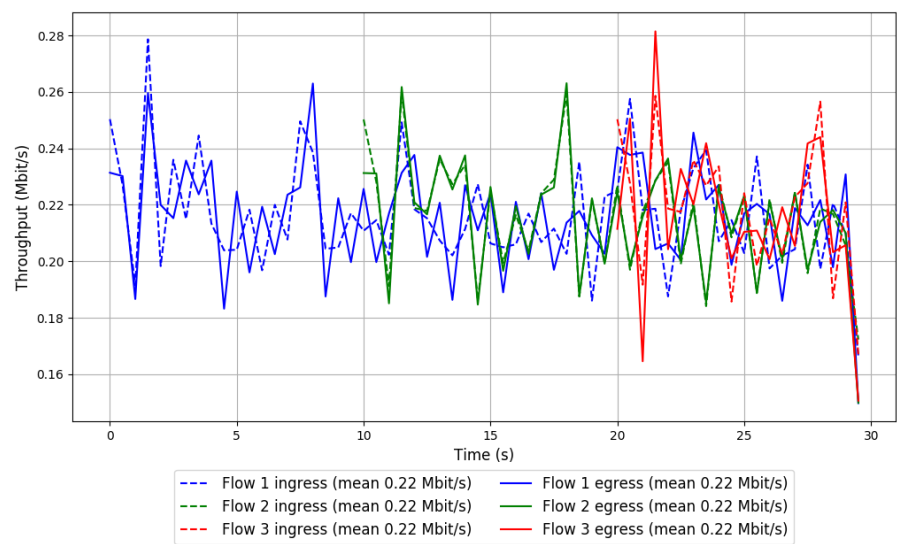


```
Run 7: Statistics of SReAM

Start at: 2017-11-17 00:53:43
End at: 2017-11-17 00:54:13

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.752 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.789 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.318 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 1.10%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-17 01:05:45

End at: 2017-11-17 01:06:15

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.42%

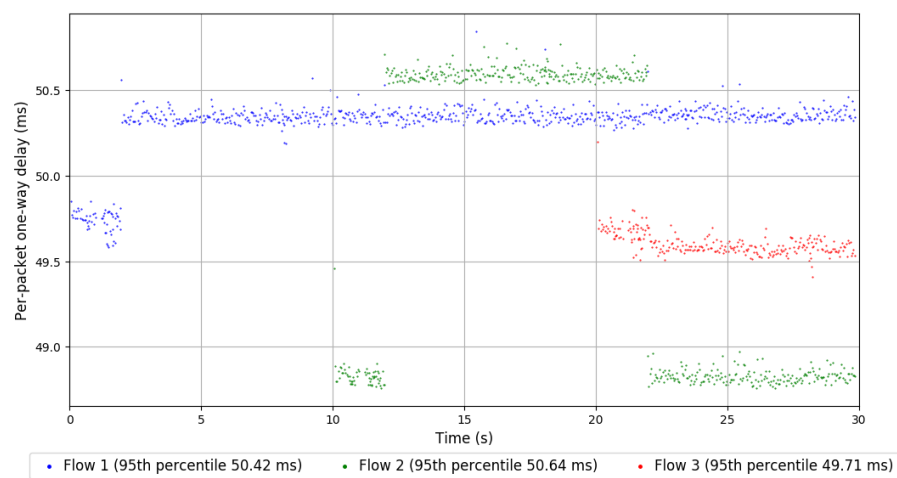
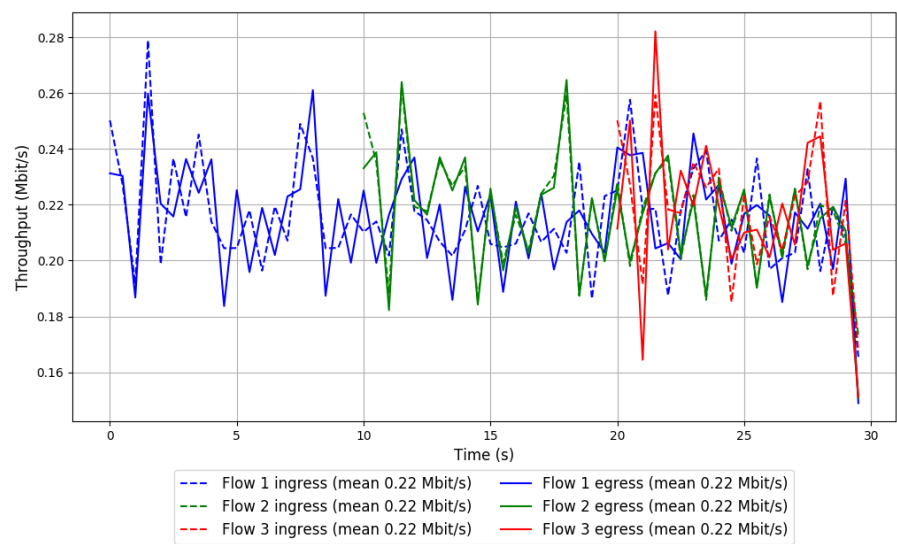
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.712 ms

Loss rate: 1.11%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-17 01:18:01

End at: 2017-11-17 01:18:31

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.983 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.959 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.012 ms

Loss rate: 0.43%

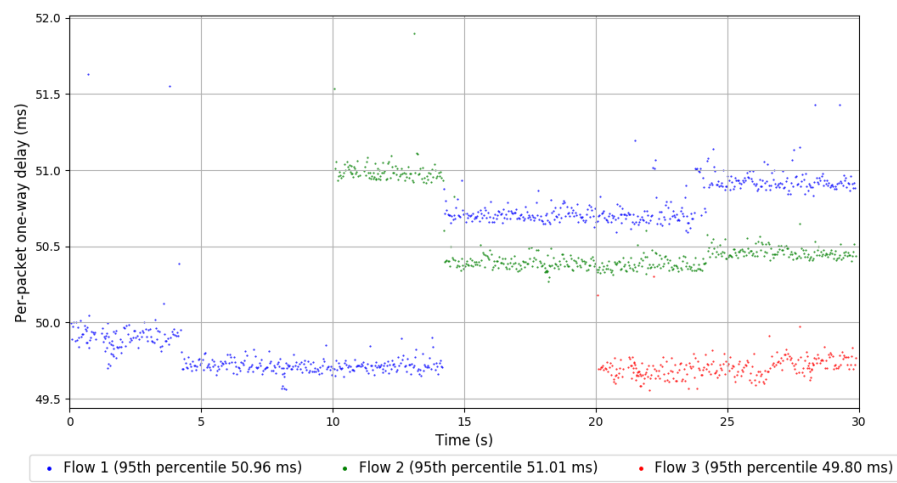
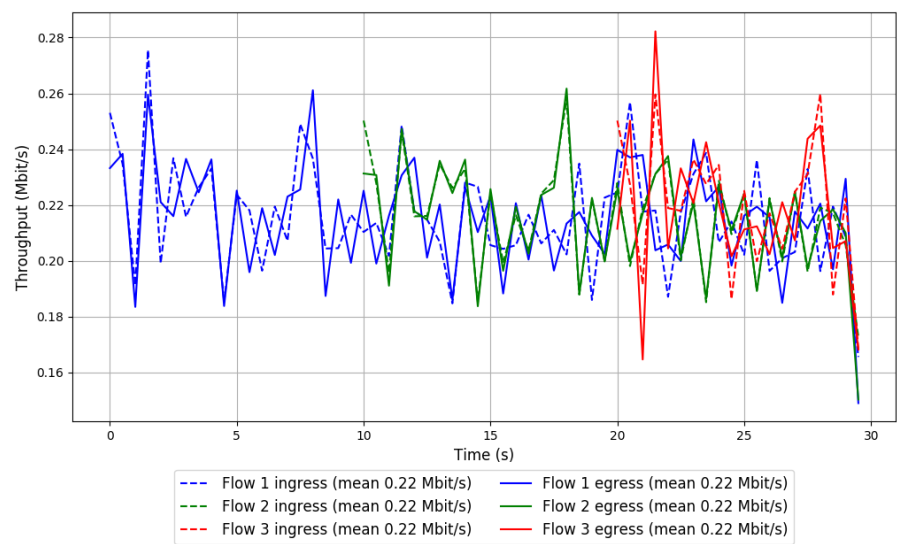
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.796 ms

Loss rate: 0.74%

Run 9: Report of SReAM — Data Link

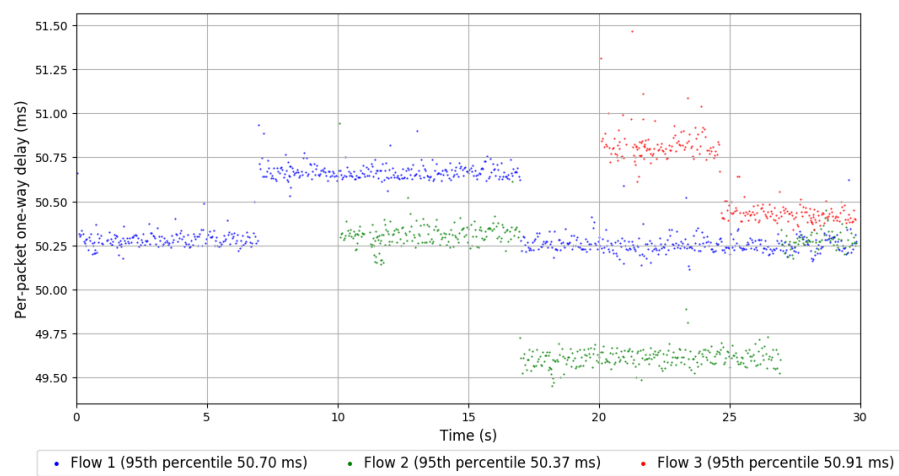
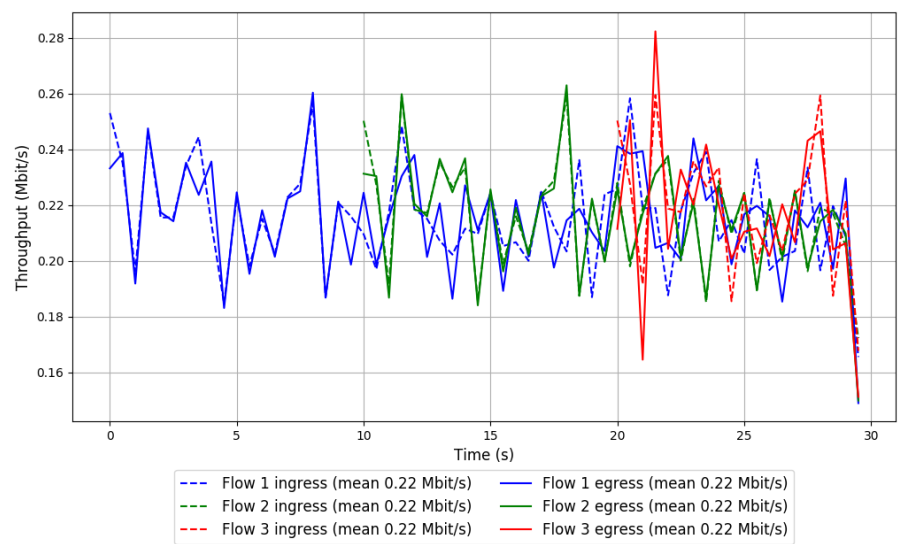


```
Run 10: Statistics of SCReAM

Start at: 2017-11-17 01:30:30
End at: 2017-11-17 01:31:00

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.366 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.910 ms
Loss rate: 1.11%
```

Run 10: Report of SReAM — Data Link

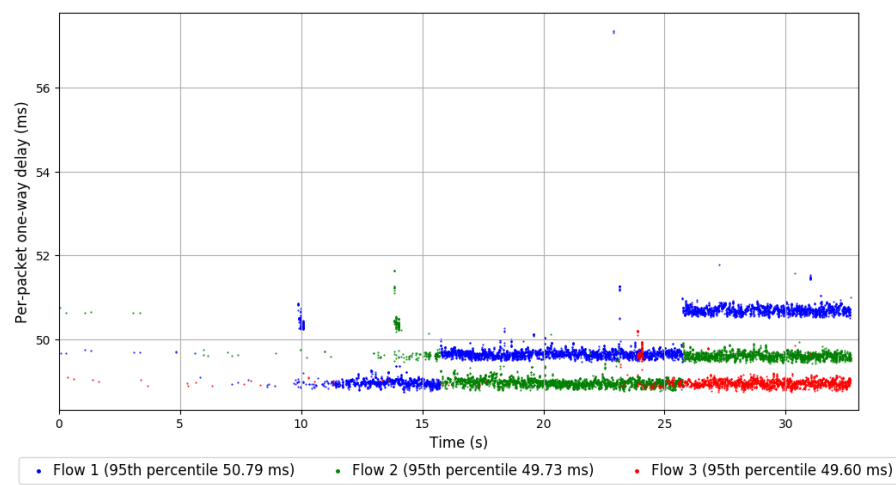
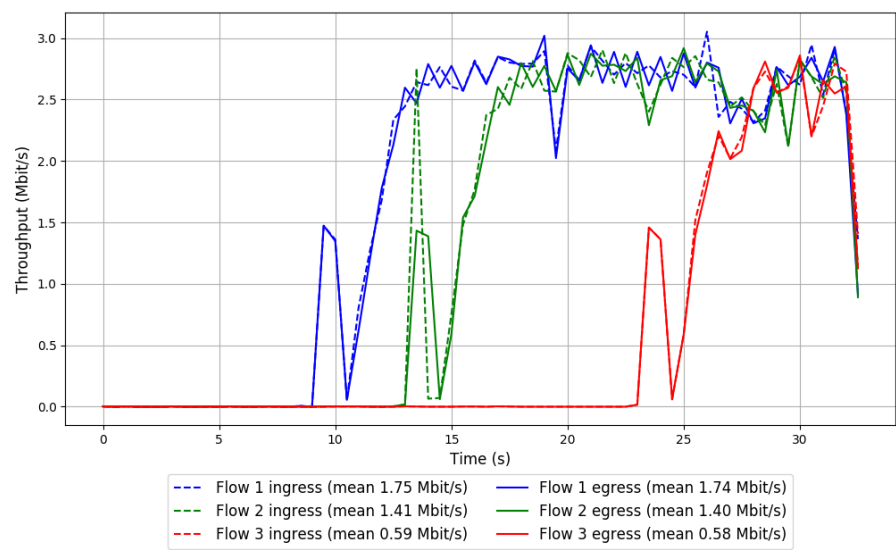


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-16 23:34:54
End at: 2017-11-16 23:35:24

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 50.738 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 50.788 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 49.733 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 49.596 ms
Loss rate: 1.69%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 23:47:07

End at: 2017-11-16 23:47:37

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

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

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 51.135 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 1.42 Mbit/s

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

Loss rate: 0.85%

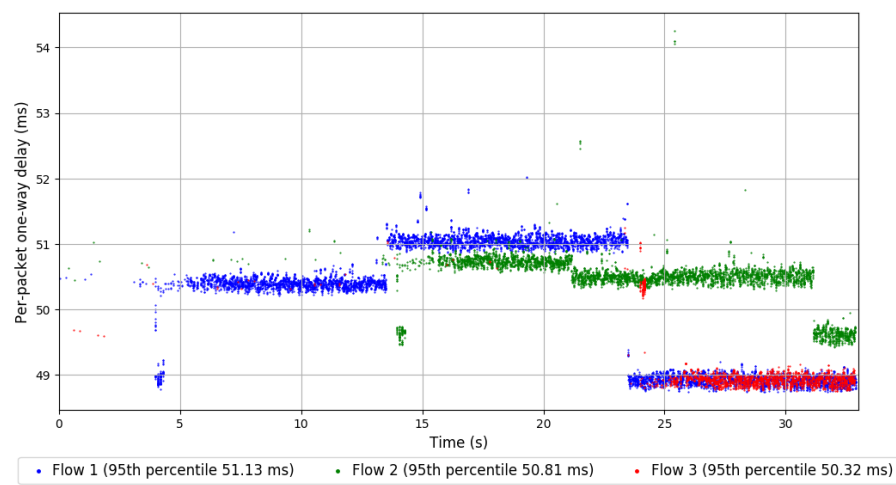
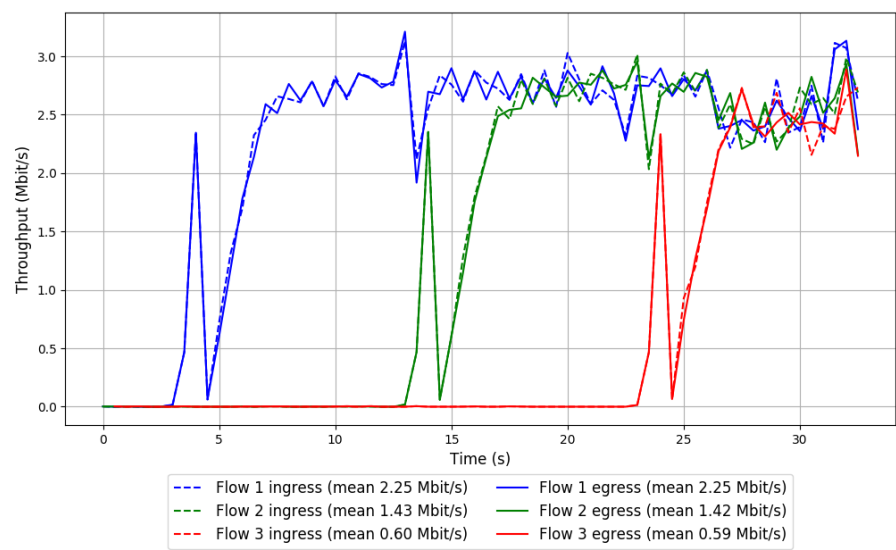
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.320 ms

Loss rate: 1.51%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 23:59:31

End at: 2017-11-17 00:00:01

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.51%

-- Flow 2:

Average throughput: 1.41 Mbit/s

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

Loss rate: 0.61%

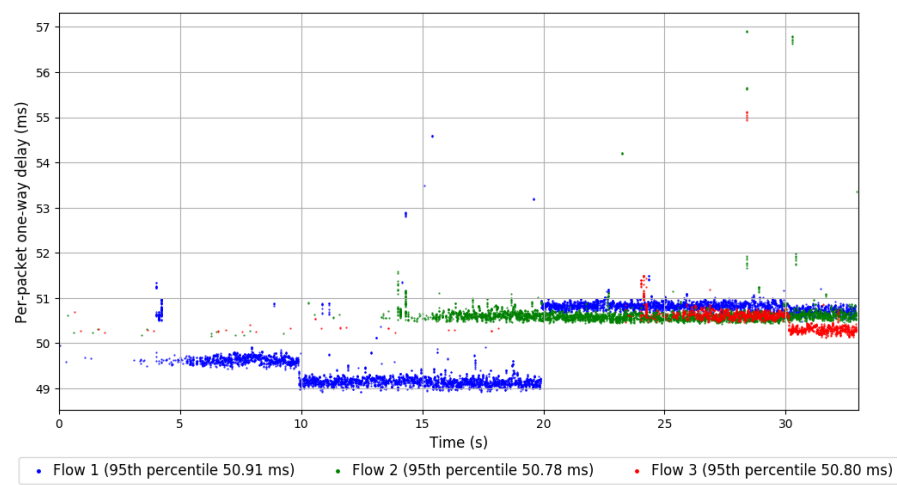
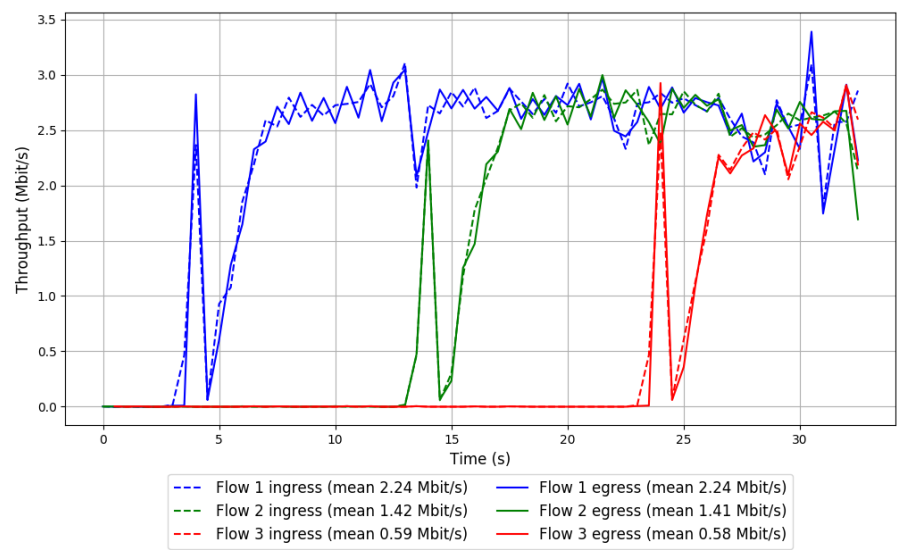
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 1.81%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-17 00:12:08

End at: 2017-11-17 00:12:38

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.25 Mbit/s

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

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 49.804 ms

Loss rate: 0.55%

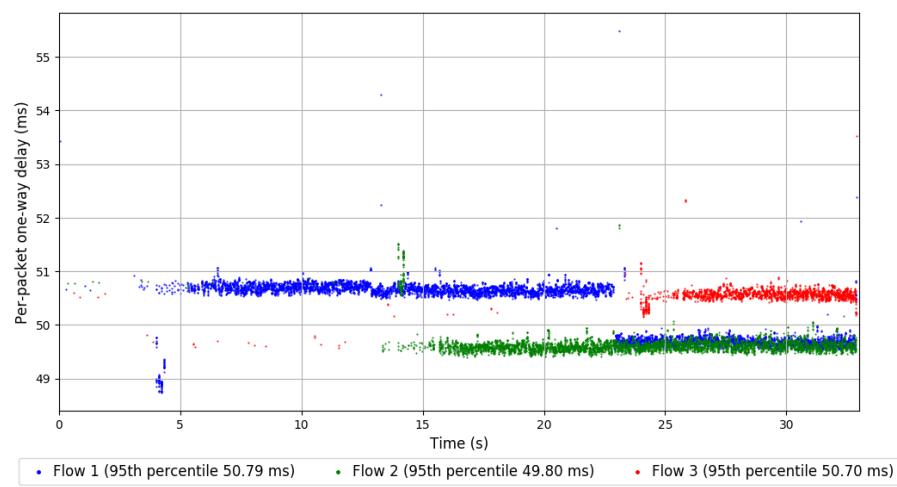
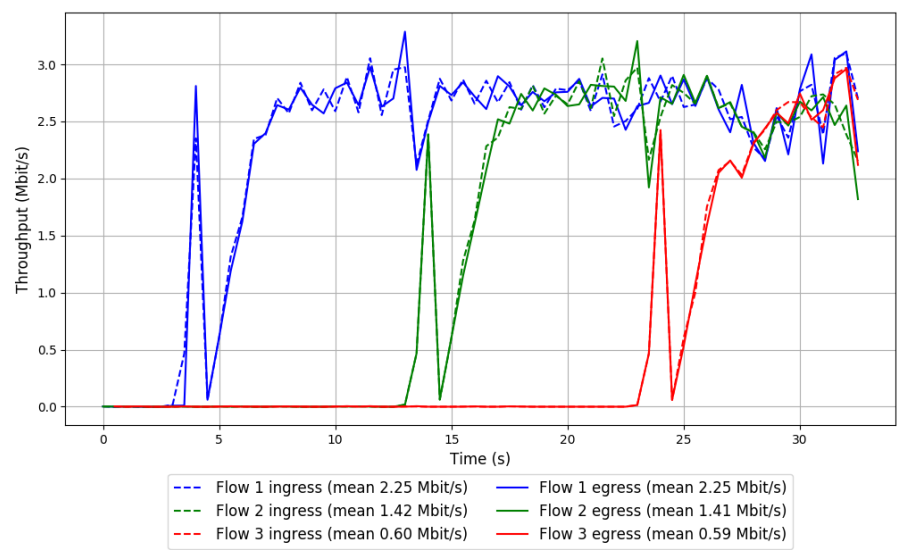
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.704 ms

Loss rate: 2.12%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-17 00:24:18

End at: 2017-11-17 00:24:48

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 50.706 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.451 ms

Loss rate: 0.55%

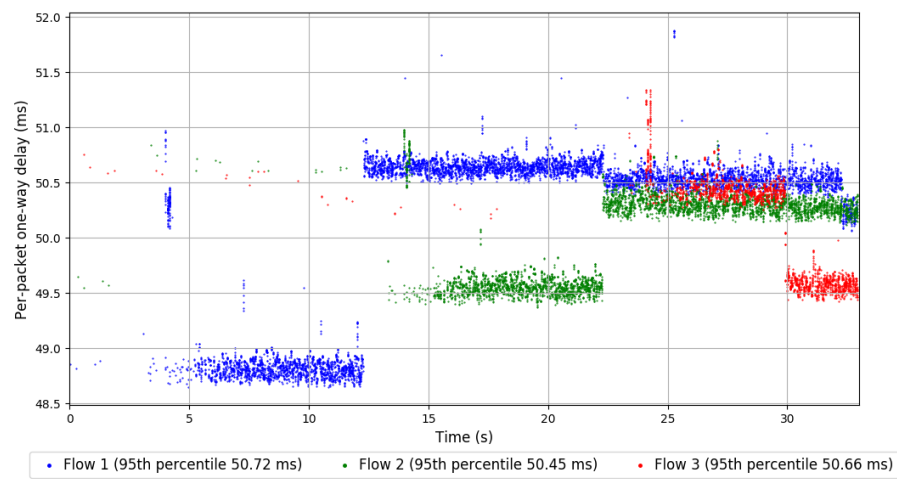
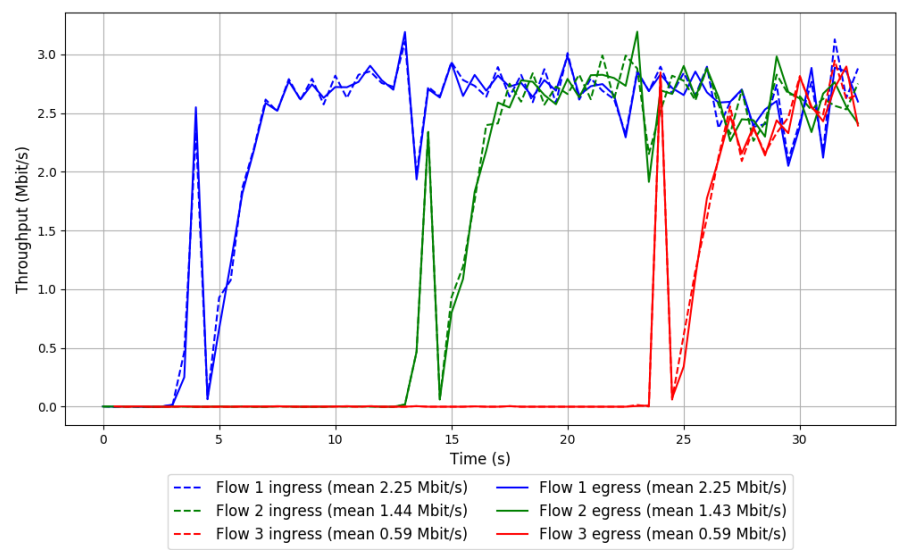
-- Flow 3:

Average throughput: 0.59 Mbit/s

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

Loss rate: 1.29%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-17 00:36:49

End at: 2017-11-17 00:37:19

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 50.742 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.718 ms

Loss rate: 0.67%

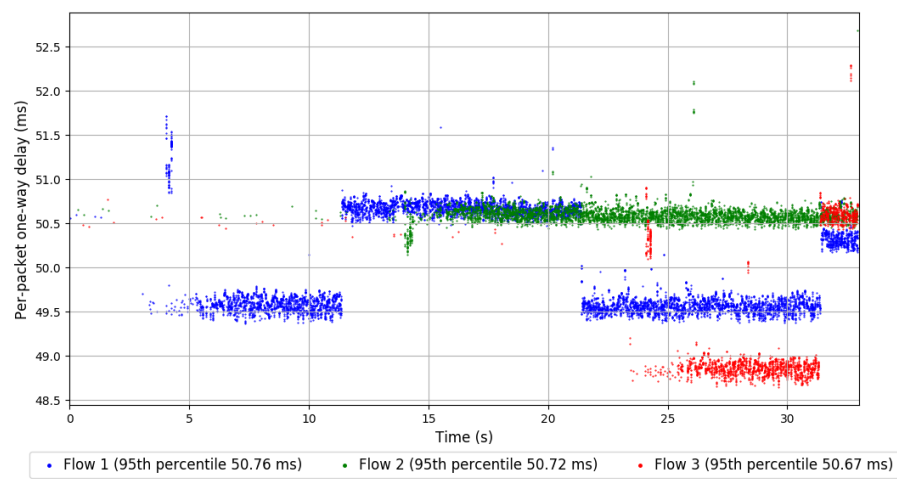
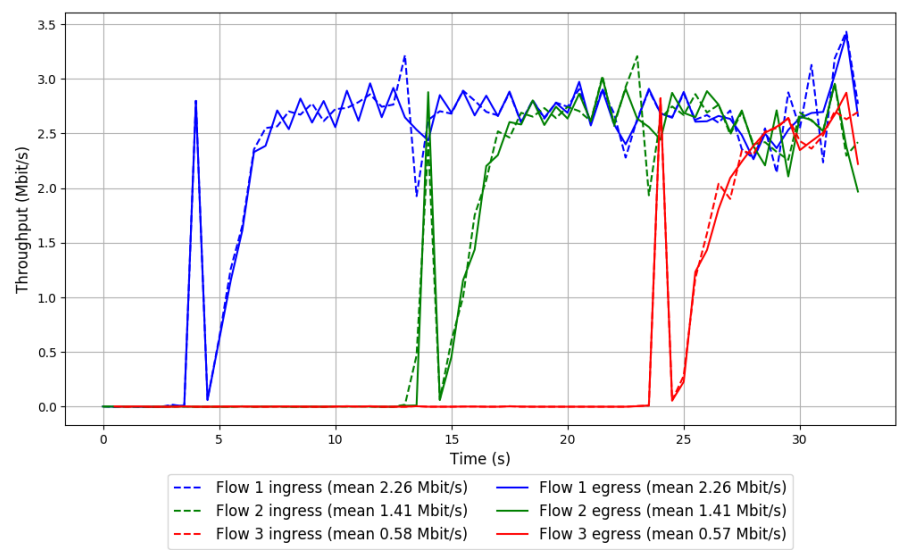
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 1.26%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-17 00:49:04

End at: 2017-11-17 00:49:35

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 50.493 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 49.671 ms

Loss rate: 0.56%

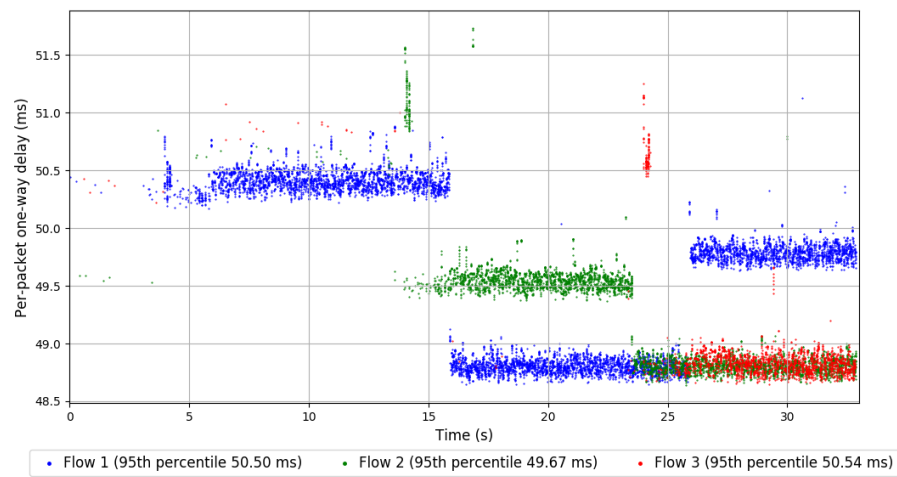
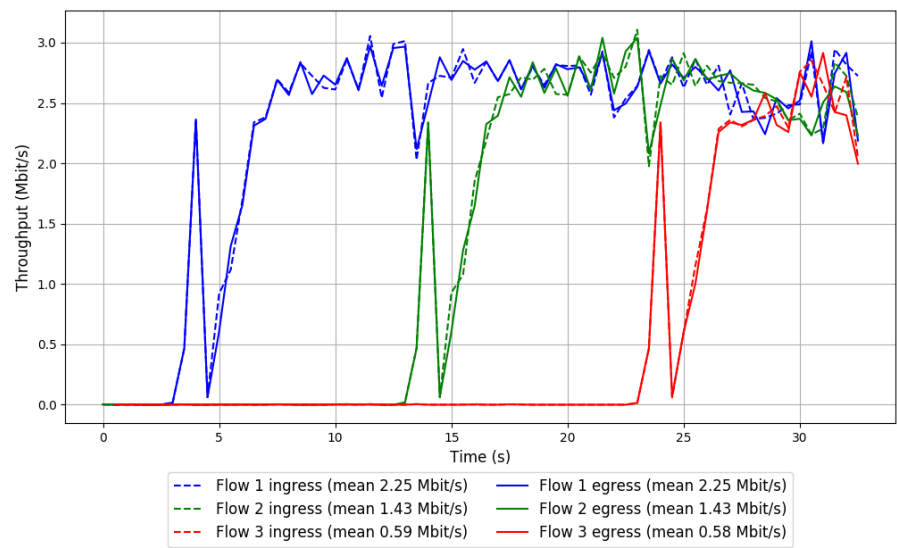
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 1.56%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-17 01:01:11

End at: 2017-11-17 01:01:41

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 50.719 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.637 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.43 Mbit/s

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

Loss rate: 0.81%

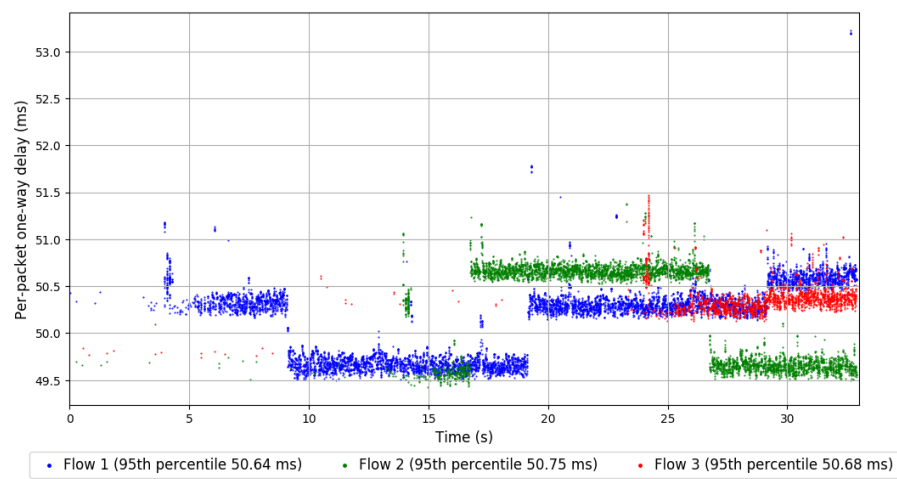
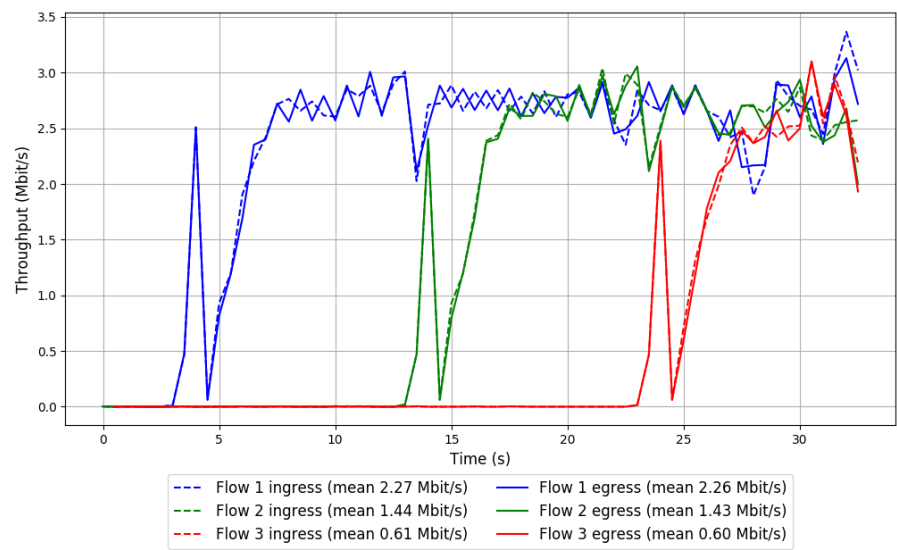
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.684 ms

Loss rate: 1.40%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-17 01:13:22

End at: 2017-11-17 01:13:52

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 50.731 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.43 Mbit/s

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

Loss rate: 0.59%

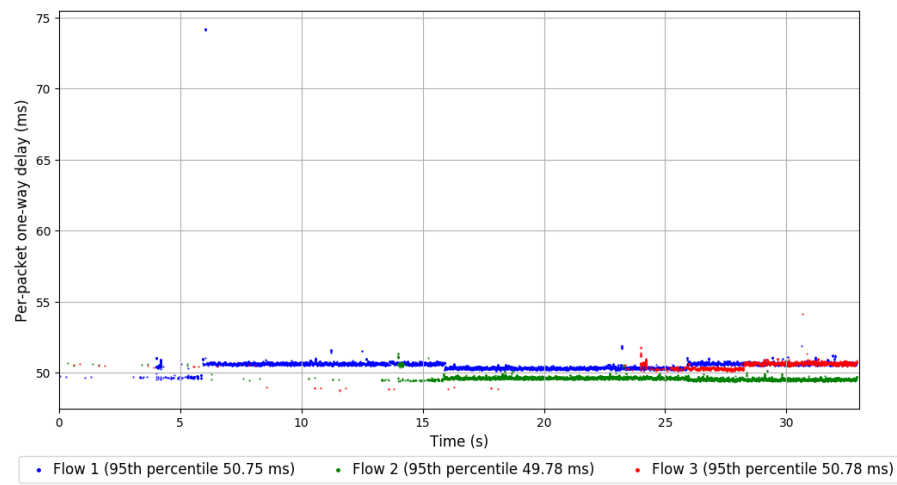
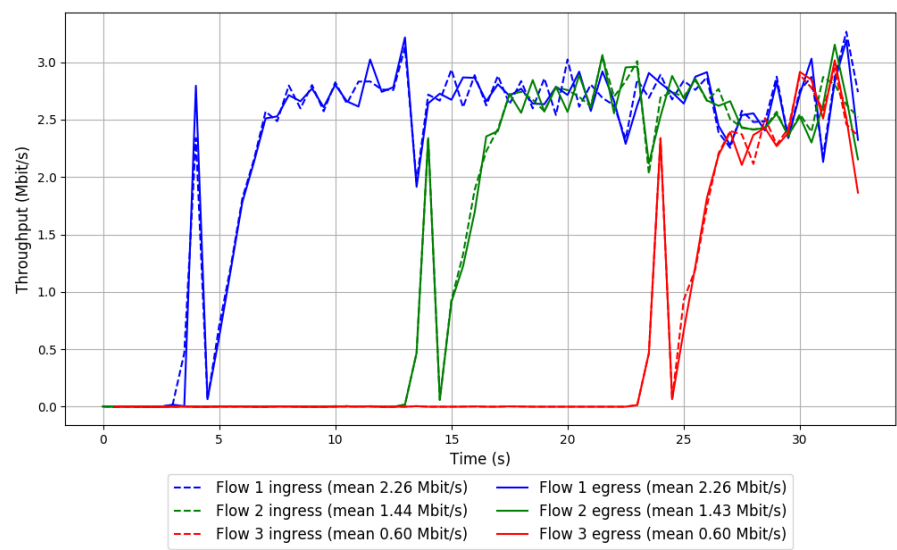
-- Flow 3:

Average throughput: 0.60 Mbit/s

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

Loss rate: 1.78%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-17 01:25:52

End at: 2017-11-17 01:26:22

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.736 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.337 ms

Loss rate: 0.54%

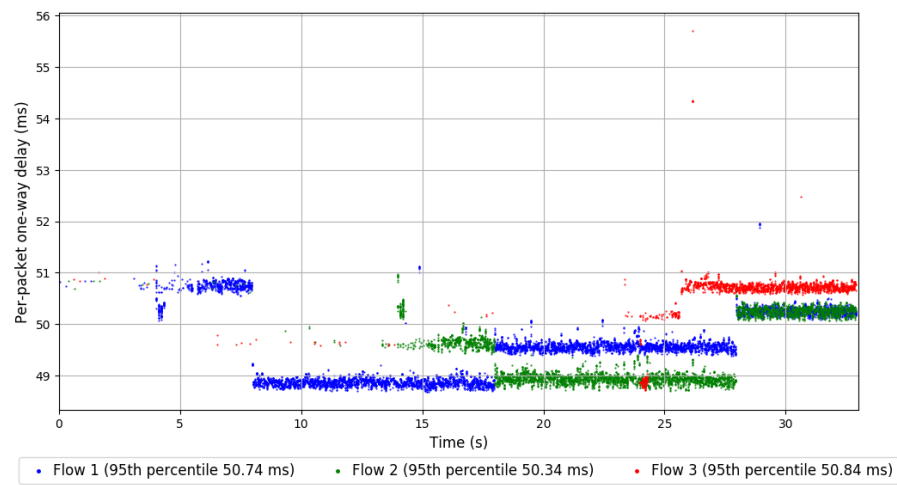
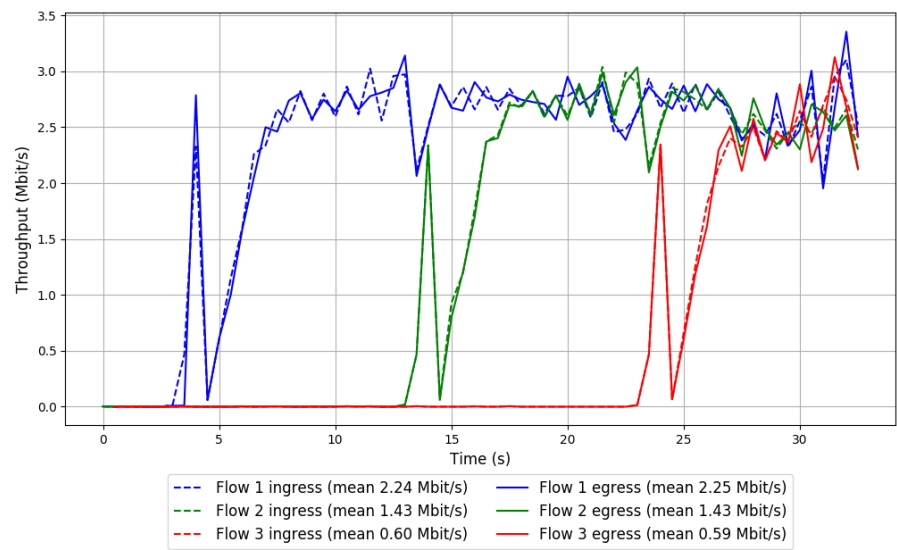
-- Flow 3:

Average throughput: 0.59 Mbit/s

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

Loss rate: 1.55%

Run 10: Report of WebRTC media — Data Link

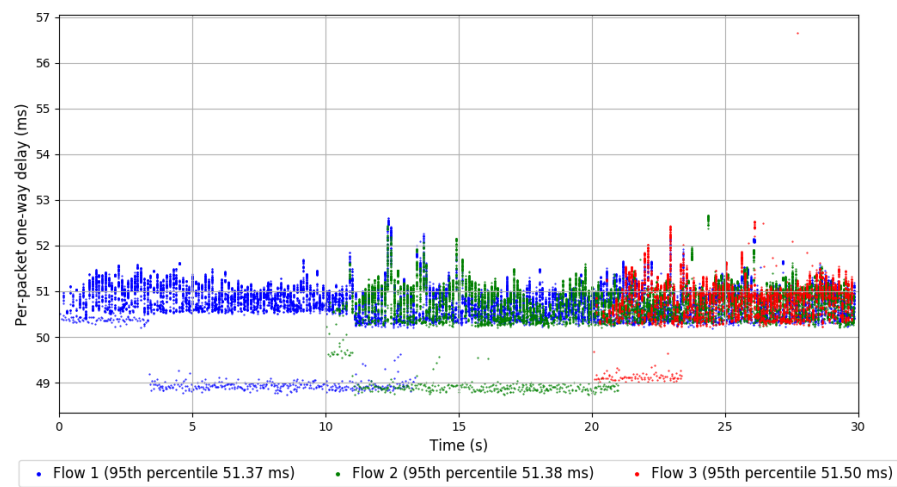
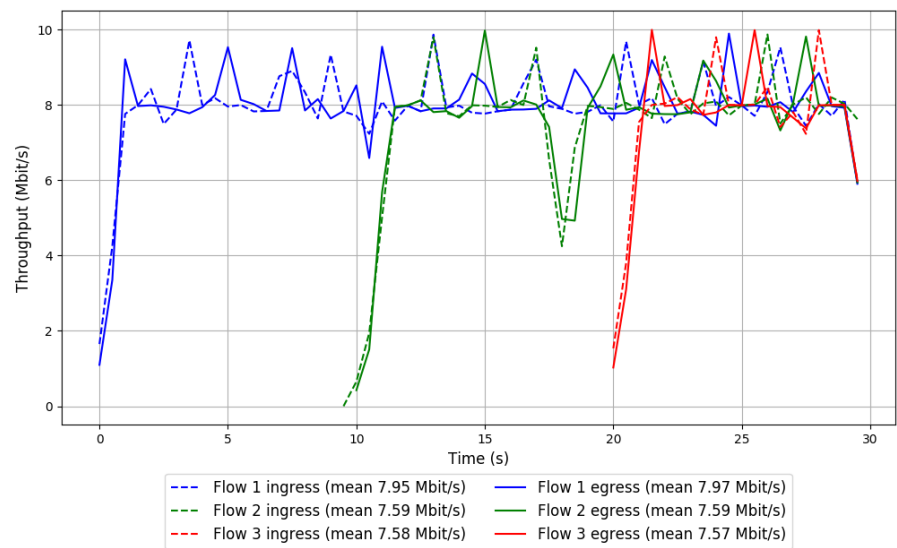


```
Run 1: Statistics of Sprout

Start at: 2017-11-16 23:35:34
End at: 2017-11-16 23:36:04

# Below is generated by plot.py at 2017-11-17 04:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 51.401 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 51.373 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 51.381 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 51.496 ms
Loss rate: 1.34%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-16 23:47:46

End at: 2017-11-16 23:48:16

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 51.692 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.721 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.639 ms

Loss rate: 0.63%

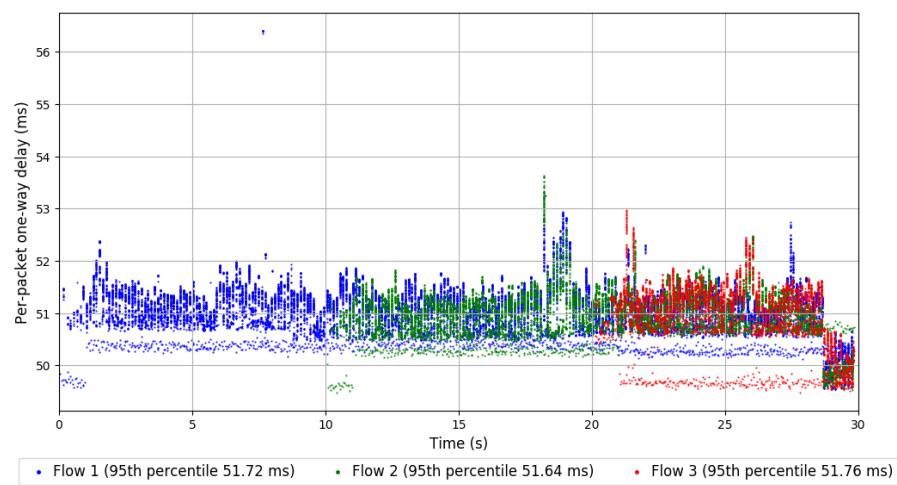
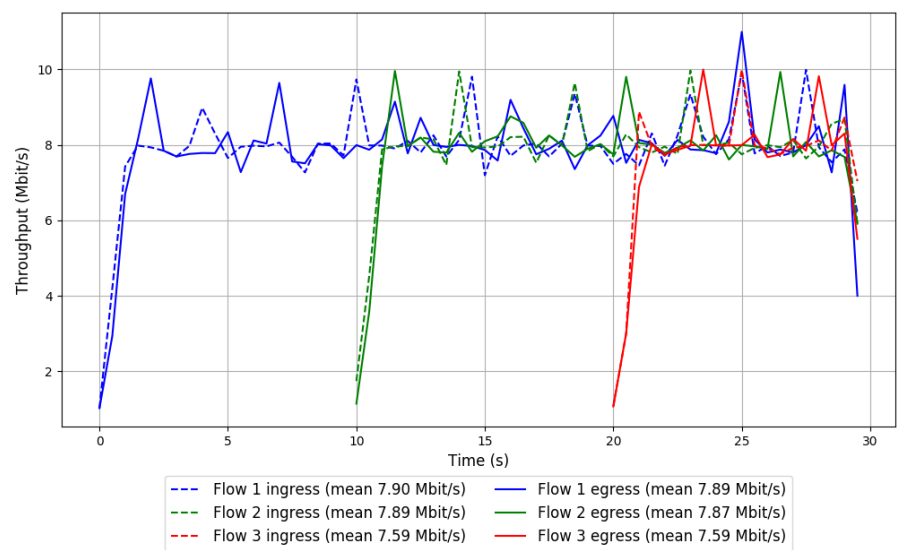
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 51.755 ms

Loss rate: 1.31%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-17 00:00:10

End at: 2017-11-17 00:00:40

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 51.620 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.653 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.504 ms

Loss rate: 0.59%

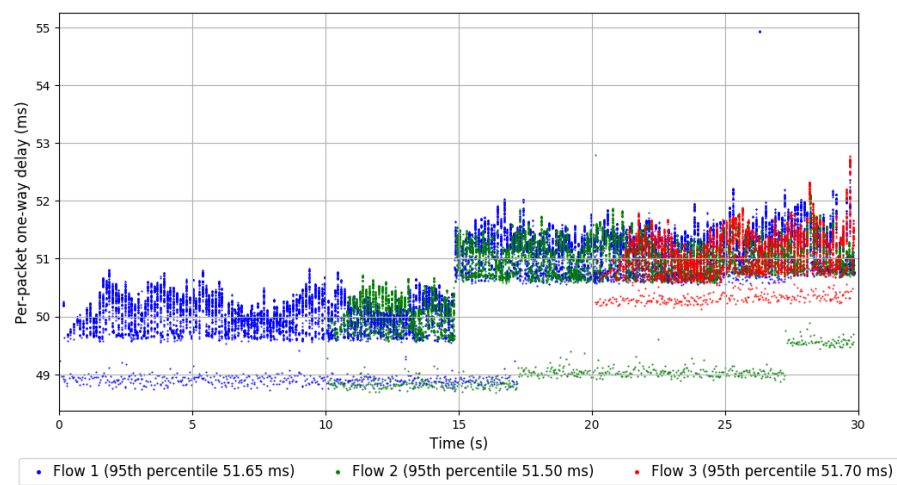
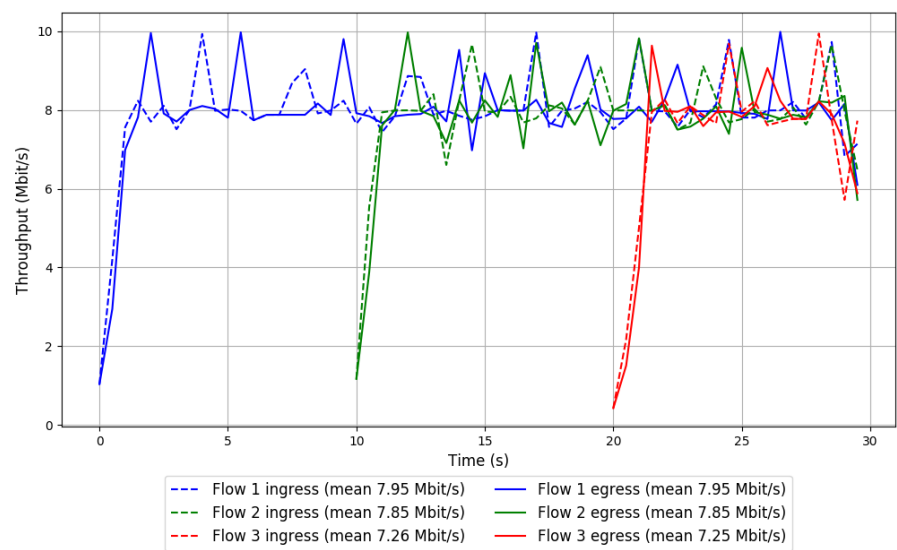
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 51.701 ms

Loss rate: 1.39%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-17 00:12:47

End at: 2017-11-17 00:13:17

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 51.314 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.443 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 7.86 Mbit/s

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

Loss rate: 0.39%

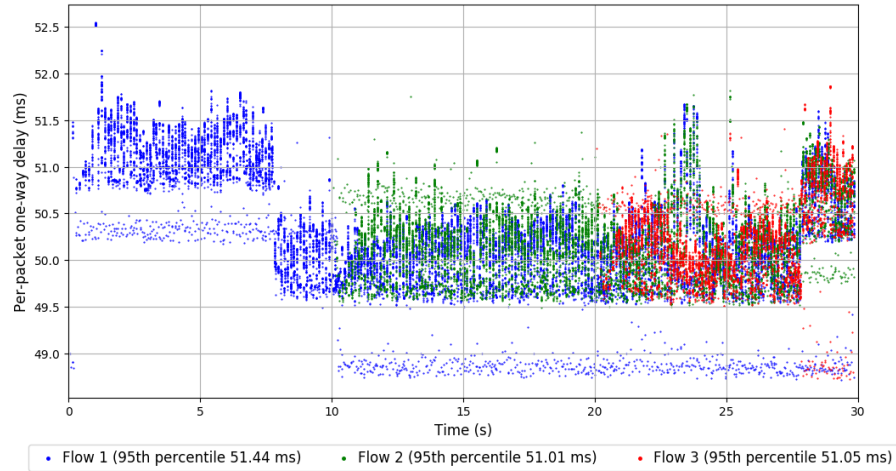
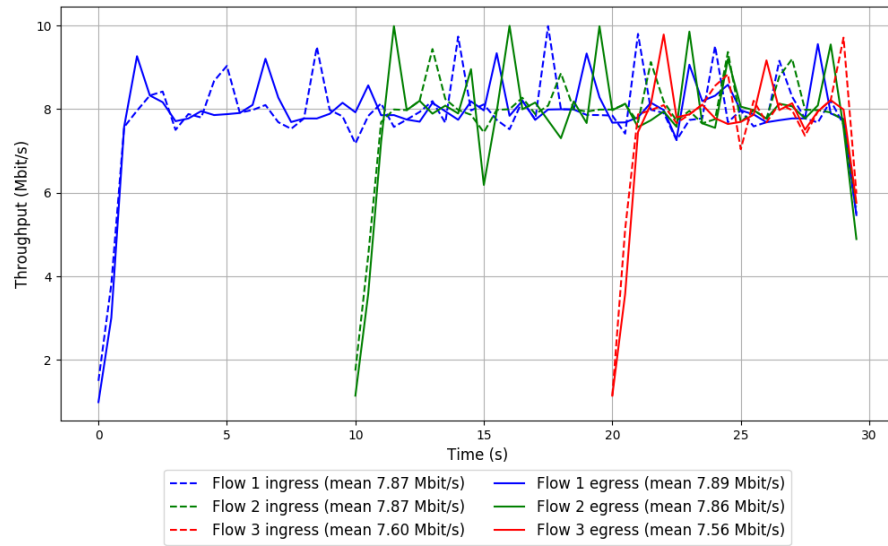
-- Flow 3:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 1.30%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-17 00:24:58

End at: 2017-11-17 00:25:28

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 51.573 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.508 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.91 Mbit/s

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

Loss rate: 0.62%

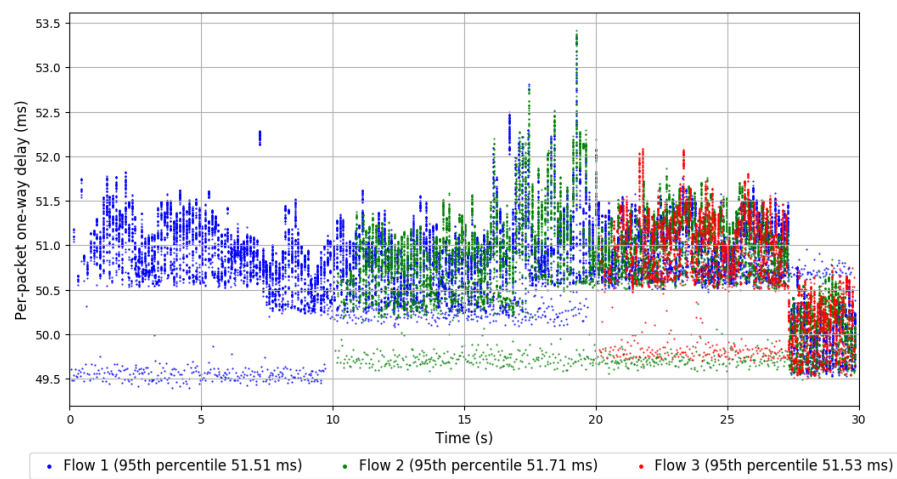
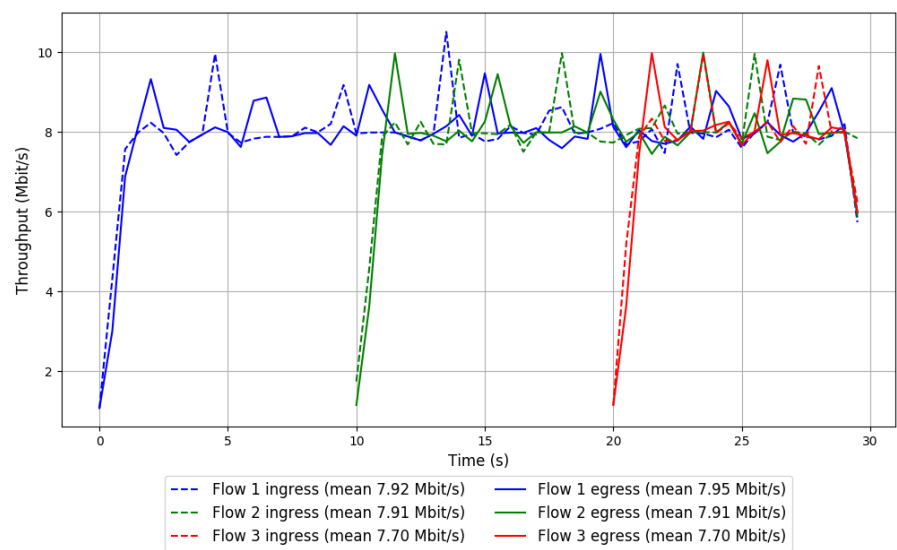
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 51.526 ms

Loss rate: 1.29%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-17 00:37:29

End at: 2017-11-17 00:37:59

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.308 ms

Loss rate: 0.61%

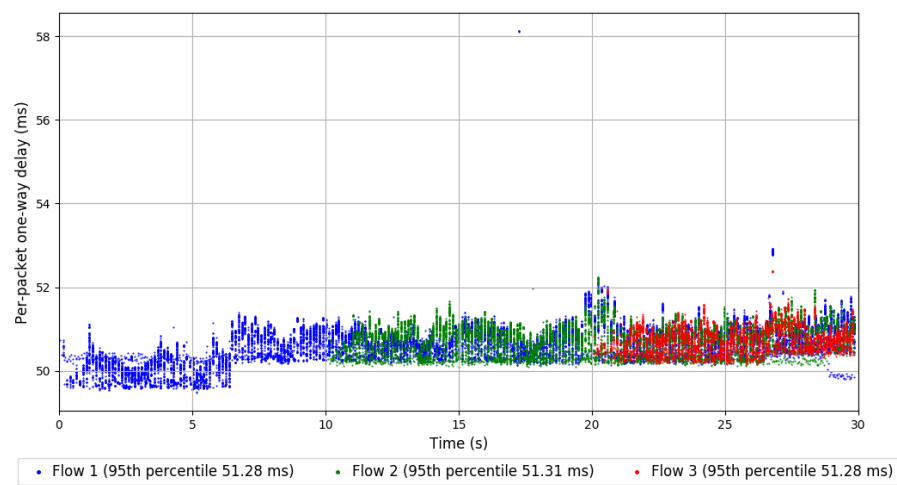
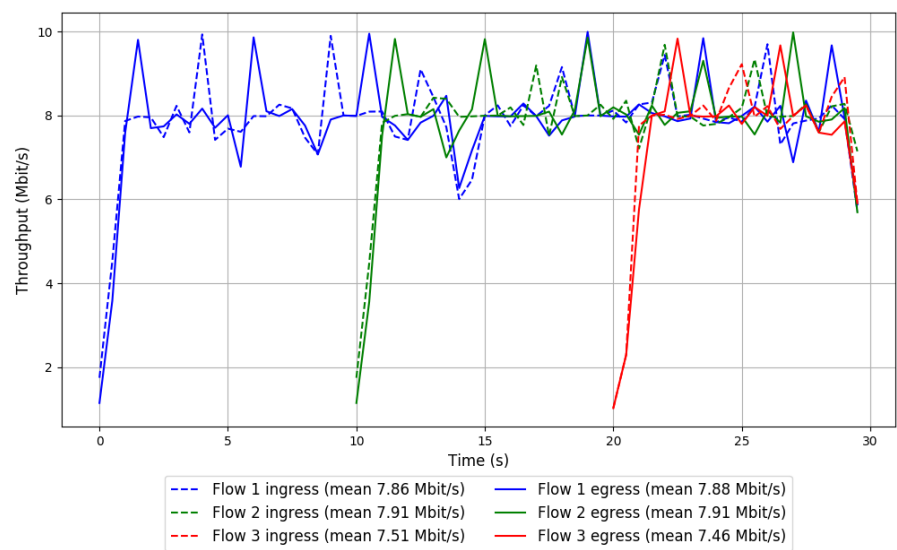
-- Flow 3:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 1.33%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-17 00:49:44

End at: 2017-11-17 00:50:14

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.69 Mbit/s

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

Loss rate: 0.43%

-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.713 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.960 ms

Loss rate: 0.01%

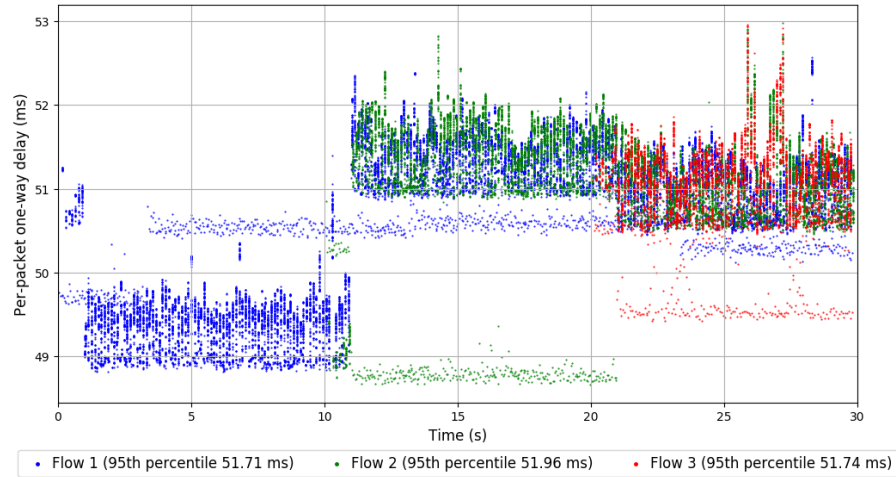
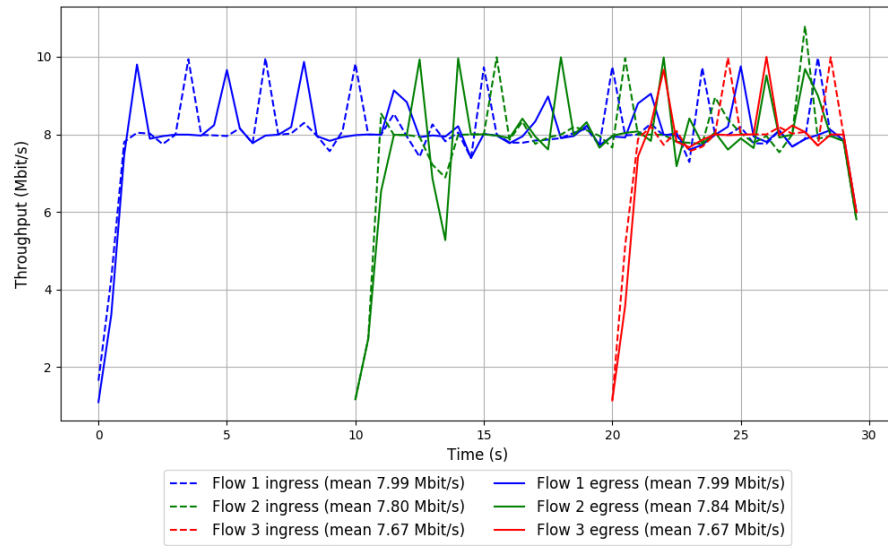
-- Flow 3:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 51.736 ms

Loss rate: 1.32%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-17 01:01:51

End at: 2017-11-17 01:02:21

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.64 Mbit/s

95th percentile per-packet one-way delay: 51.439 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.426 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.57%

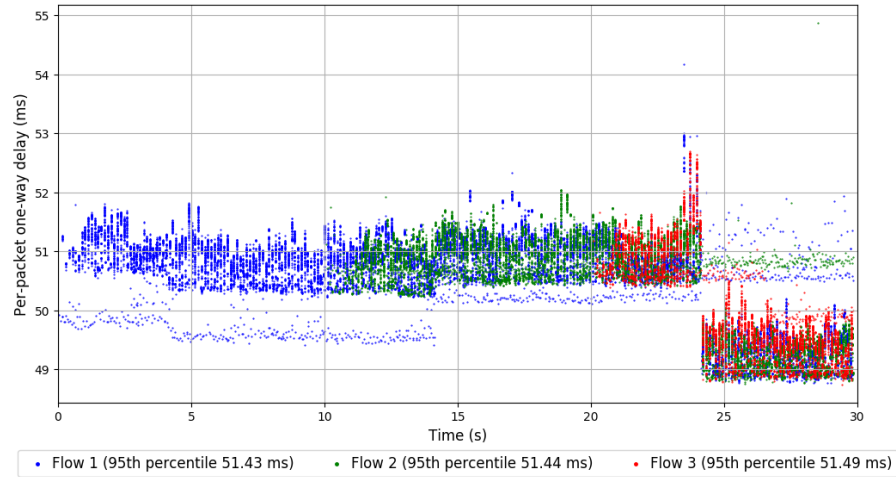
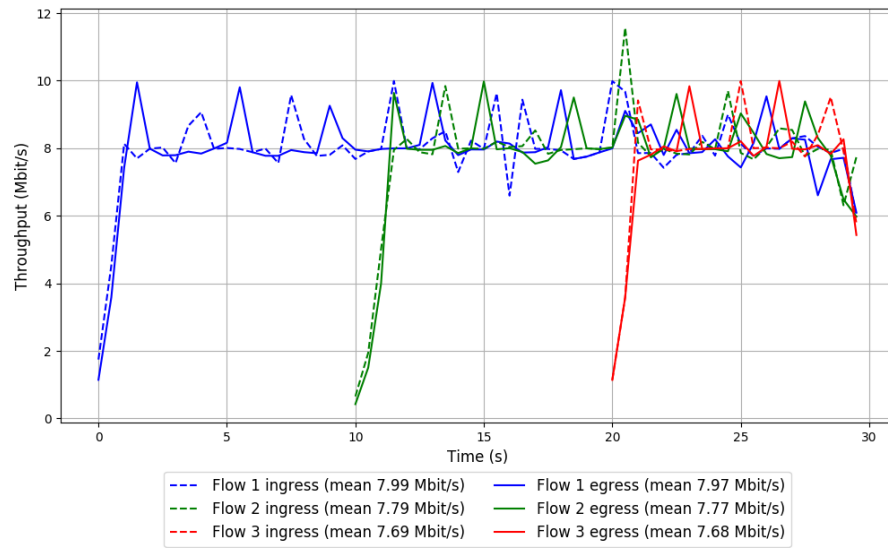
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 51.489 ms

Loss rate: 1.30%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-17 01:14:02

End at: 2017-11-17 01:14:32

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 50.366 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 50.374 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 50.476 ms

Loss rate: 0.62%

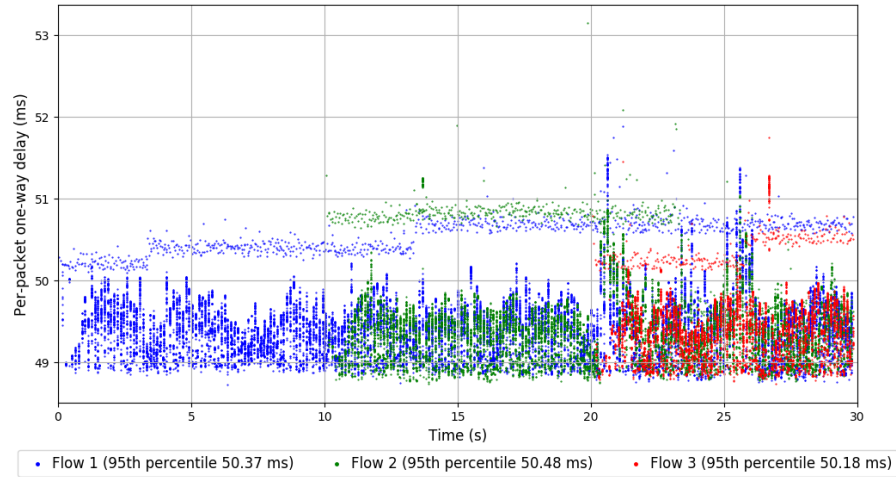
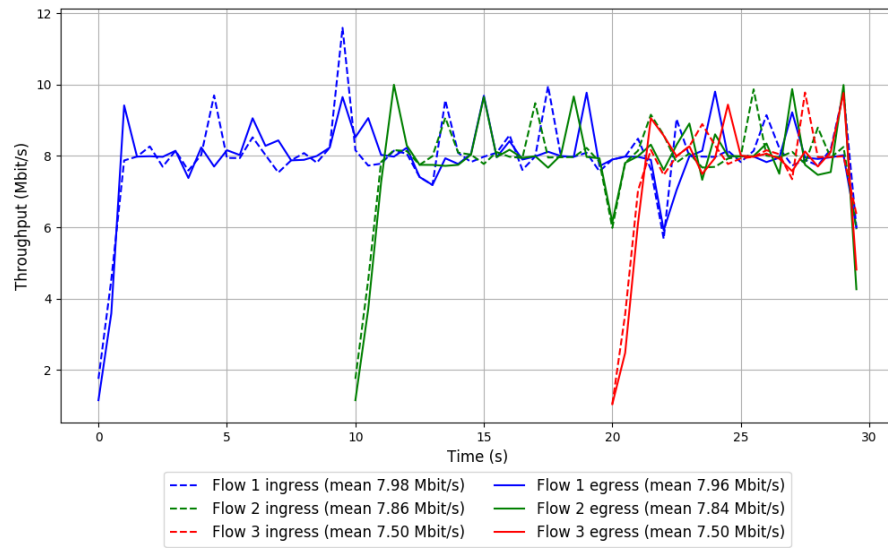
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 50.177 ms

Loss rate: 1.05%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-17 01:26:32

End at: 2017-11-17 01:27:02

Below is generated by plot.py at 2017-11-17 04:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 51.819 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.707 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.931 ms

Loss rate: 0.52%

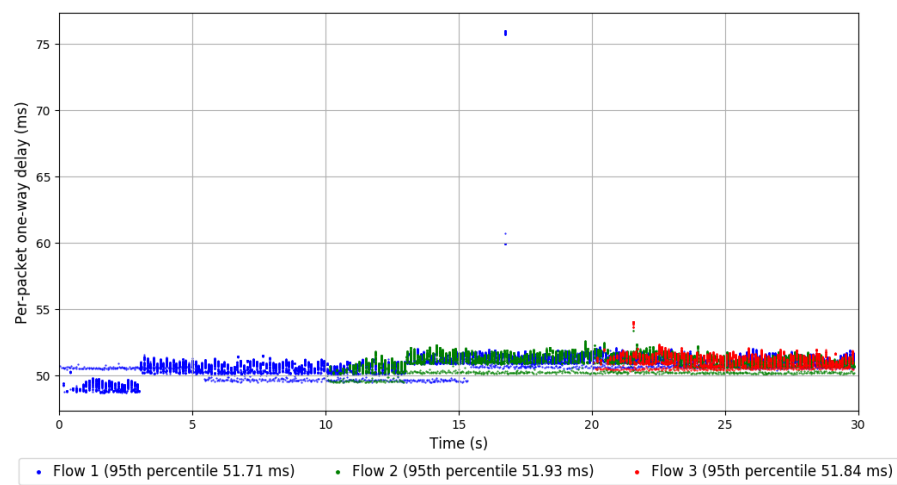
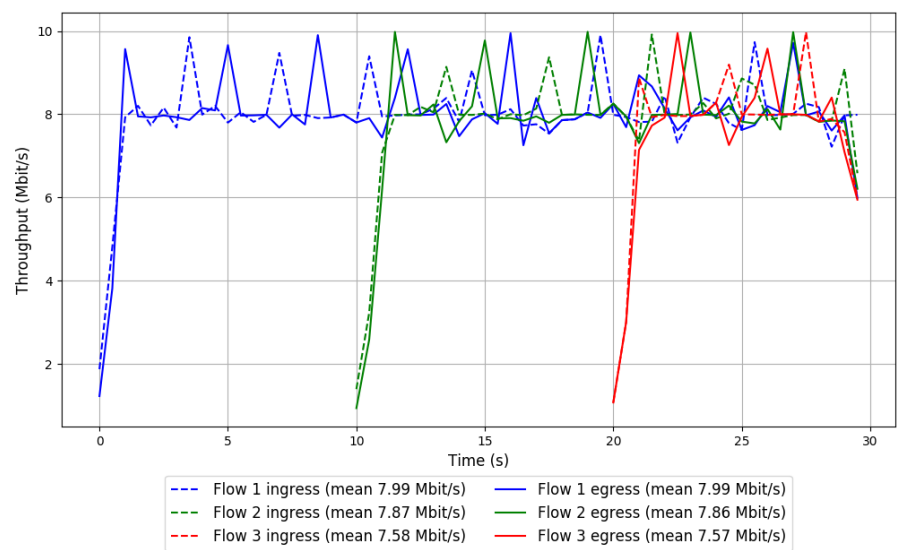
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.845 ms

Loss rate: 1.33%

Run 10: Report of Sprout — Data Link

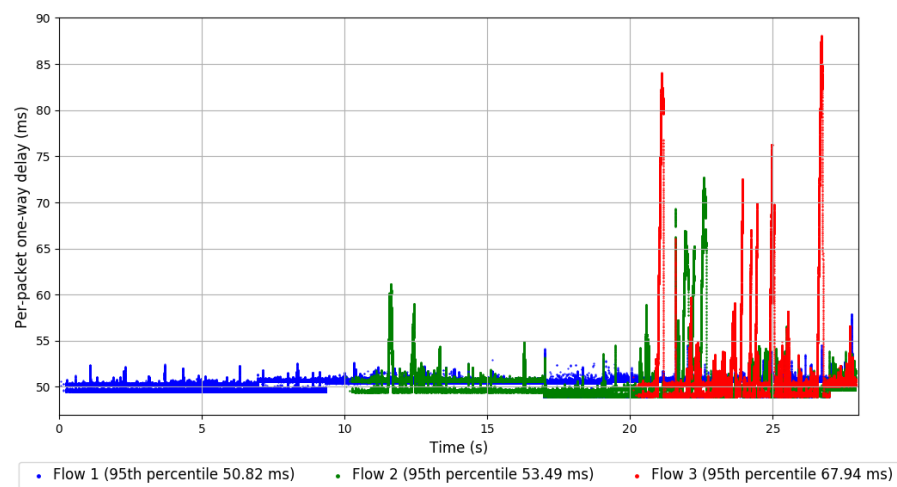
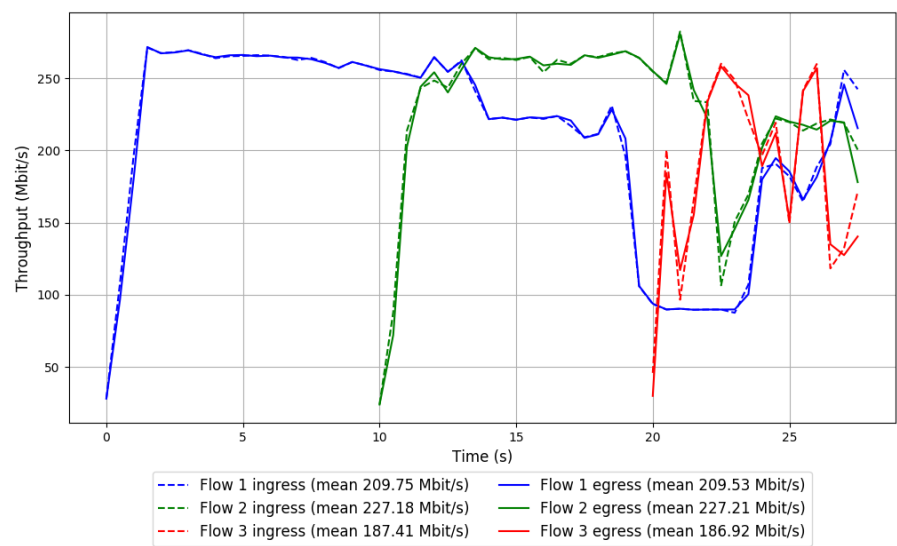


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 23:44:46
End at: 2017-11-16 23:45:16

# Below is generated by plot.py at 2017-11-17 04:25:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 407.43 Mbit/s
95th percentile per-packet one-way delay: 52.220 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 209.53 Mbit/s
95th percentile per-packet one-way delay: 50.818 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 227.21 Mbit/s
95th percentile per-packet one-way delay: 53.493 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 186.92 Mbit/s
95th percentile per-packet one-way delay: 67.941 ms
Loss rate: 1.53%
```


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

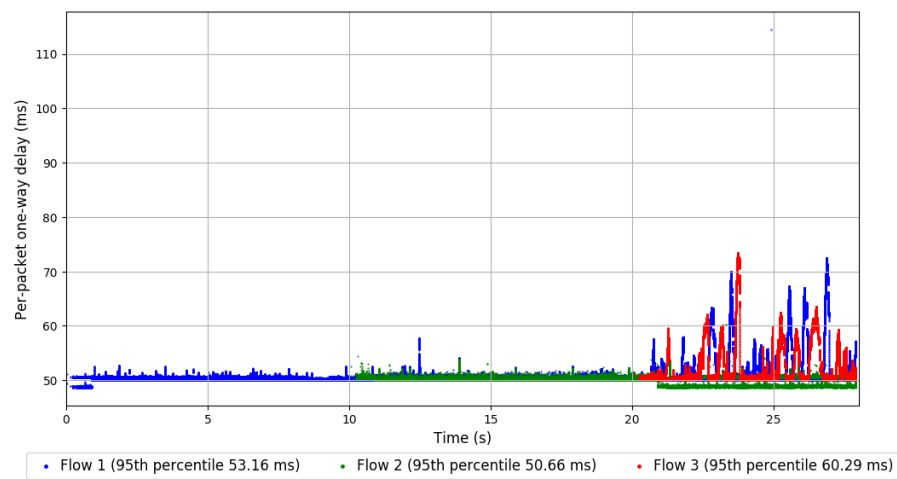
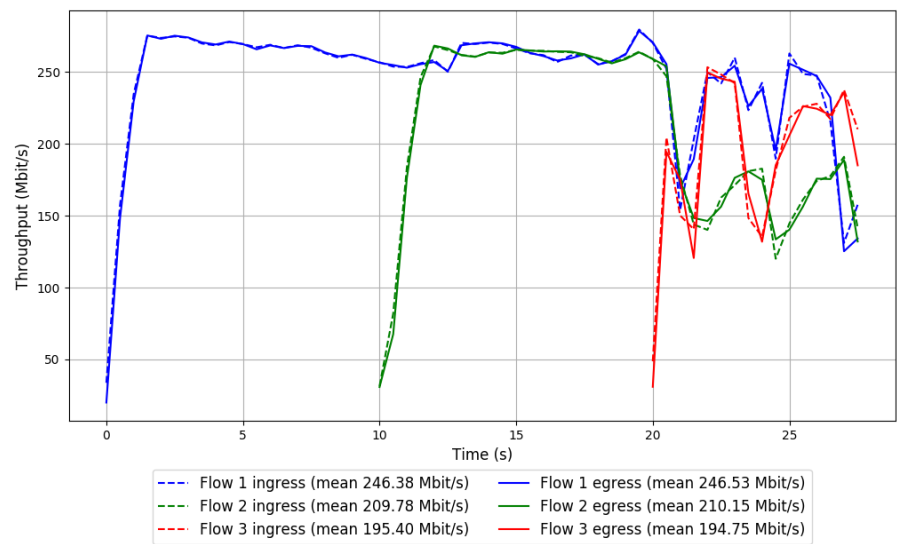


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 23:57:05
End at: 2017-11-16 23:57:35

# Below is generated by plot.py at 2017-11-17 04:25:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 435.74 Mbit/s
95th percentile per-packet one-way delay: 54.837 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 246.53 Mbit/s
95th percentile per-packet one-way delay: 53.164 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 210.15 Mbit/s
95th percentile per-packet one-way delay: 50.660 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 194.75 Mbit/s
95th percentile per-packet one-way delay: 60.294 ms
Loss rate: 1.63%
```

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

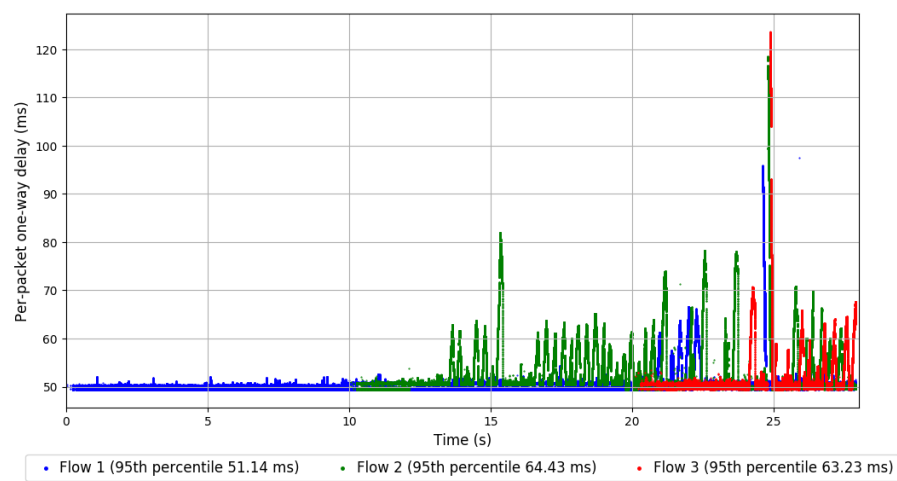
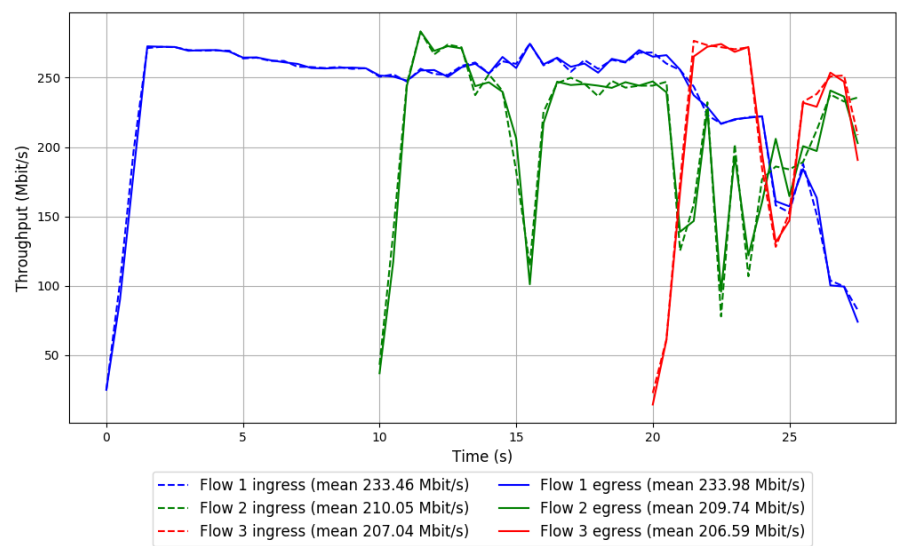


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-17 00:09:43
End at: 2017-11-17 00:10:13

# Below is generated by plot.py at 2017-11-17 04:25:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.19 Mbit/s
95th percentile per-packet one-way delay: 60.475 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 233.98 Mbit/s
95th percentile per-packet one-way delay: 51.141 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 209.74 Mbit/s
95th percentile per-packet one-way delay: 64.429 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 206.59 Mbit/s
95th percentile per-packet one-way delay: 63.230 ms
Loss rate: 1.50%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-17 00:21:57

End at: 2017-11-17 00:22:27

Below is generated by plot.py at 2017-11-17 04:25:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.46 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 210.54 Mbit/s

95th percentile per-packet one-way delay: 52.129 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 206.49 Mbit/s

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

Loss rate: 0.76%

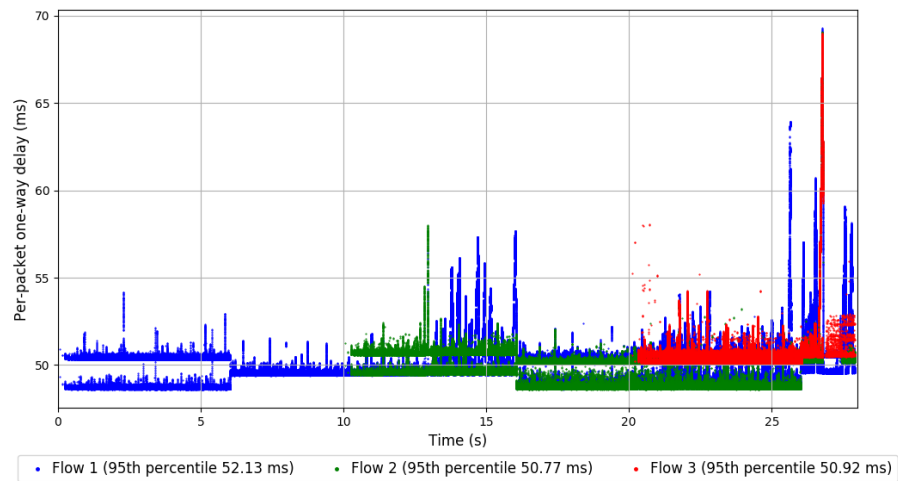
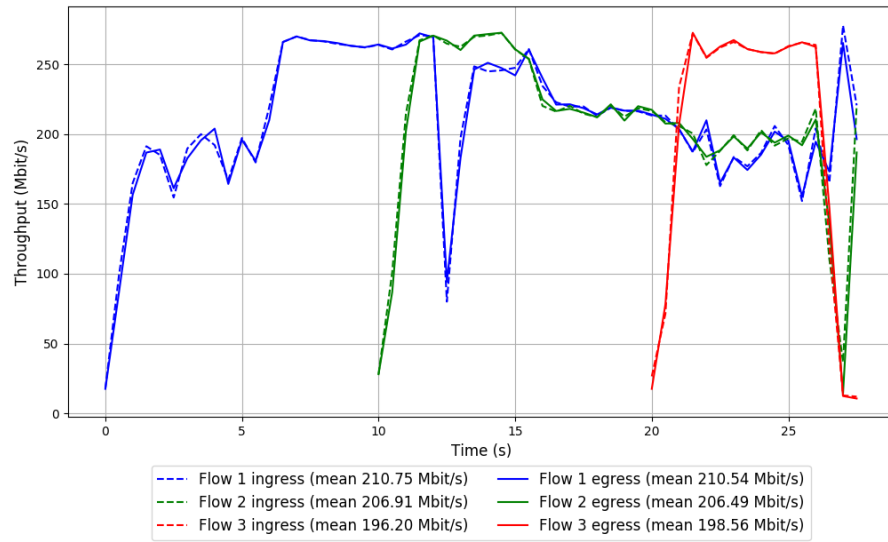
-- Flow 3:

Average throughput: 198.56 Mbit/s

95th percentile per-packet one-way delay: 50.916 ms

Loss rate: 0.09%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-17 00:34:24

End at: 2017-11-17 00:34:54

Below is generated by plot.py at 2017-11-17 04:26:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 439.81 Mbit/s

95th percentile per-packet one-way delay: 58.959 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 230.43 Mbit/s

95th percentile per-packet one-way delay: 58.117 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 241.35 Mbit/s

95th percentile per-packet one-way delay: 50.678 ms

Loss rate: 0.25%

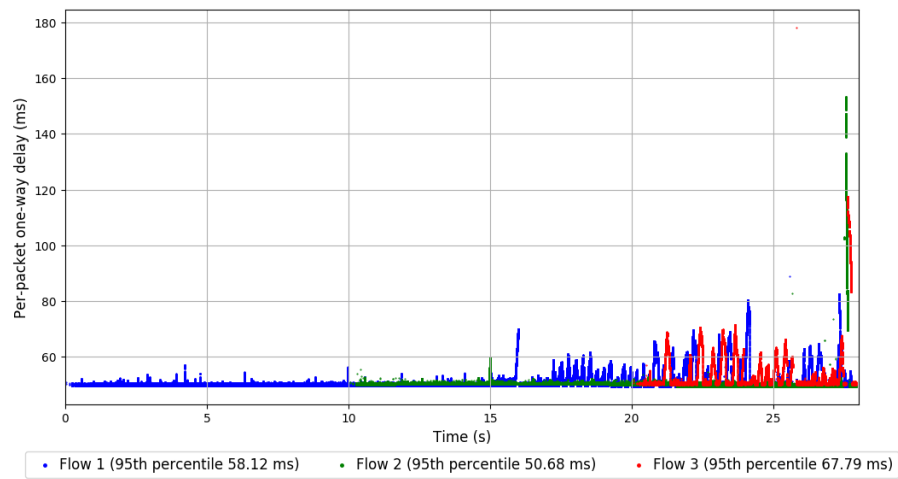
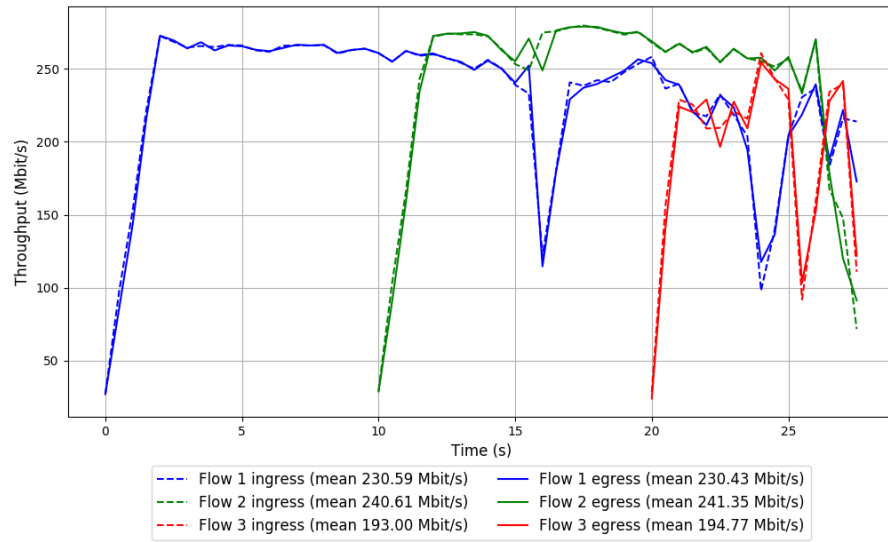
-- Flow 3:

Average throughput: 194.77 Mbit/s

95th percentile per-packet one-way delay: 67.794 ms

Loss rate: 0.35%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-17 00:46:47

End at: 2017-11-17 00:47:17

Below is generated by plot.py at 2017-11-17 04:26:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.25 Mbit/s

95th percentile per-packet one-way delay: 51.330 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 194.18 Mbit/s

95th percentile per-packet one-way delay: 51.065 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 223.62 Mbit/s

95th percentile per-packet one-way delay: 51.439 ms

Loss rate: 0.60%

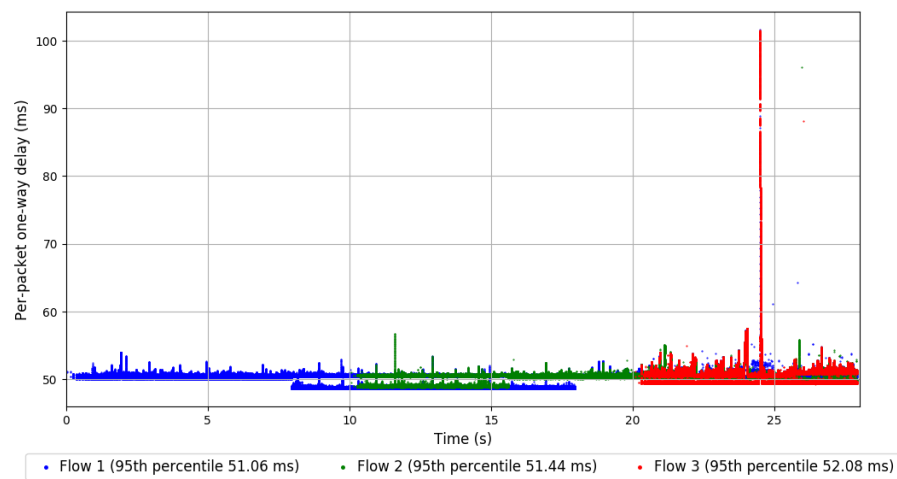
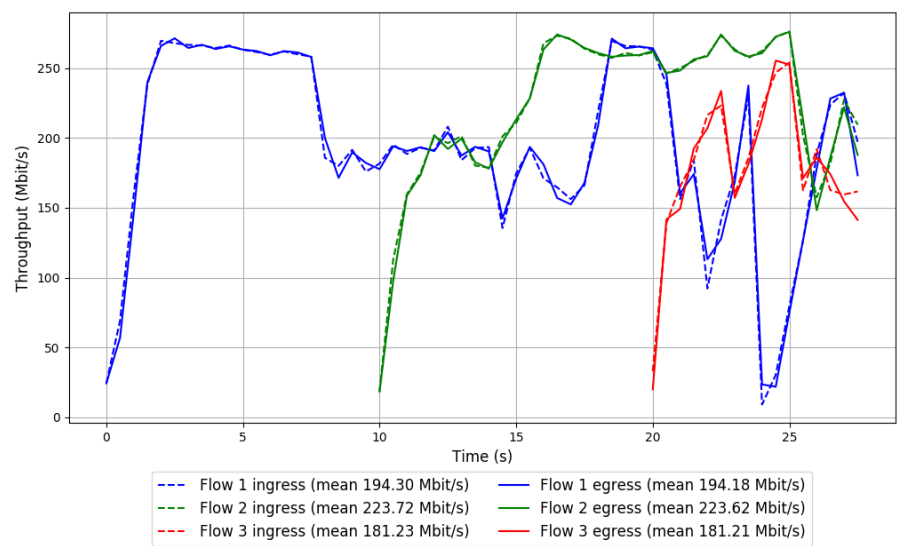
-- Flow 3:

Average throughput: 181.21 Mbit/s

95th percentile per-packet one-way delay: 52.076 ms

Loss rate: 1.28%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-17 00:58:51

End at: 2017-11-17 00:59:21

Below is generated by plot.py at 2017-11-17 04:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.42 Mbit/s

95th percentile per-packet one-way delay: 54.543 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 228.18 Mbit/s

95th percentile per-packet one-way delay: 53.472 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 166.69 Mbit/s

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

Loss rate: 0.01%

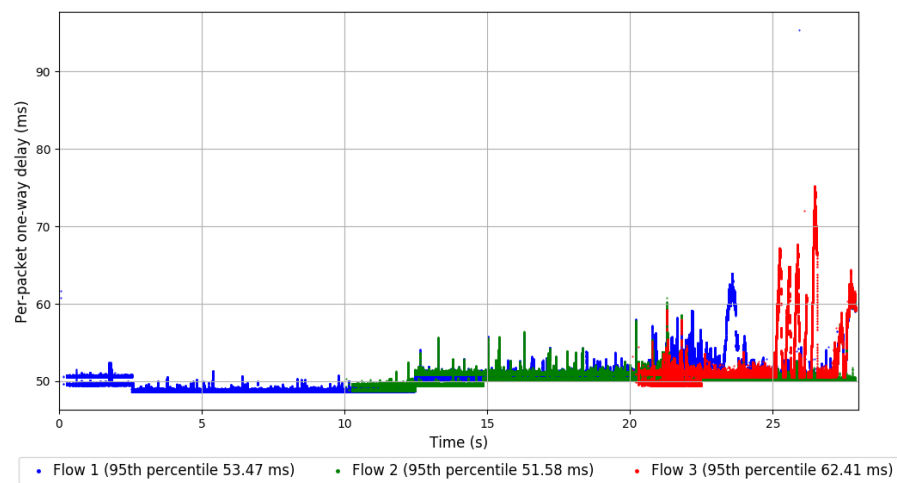
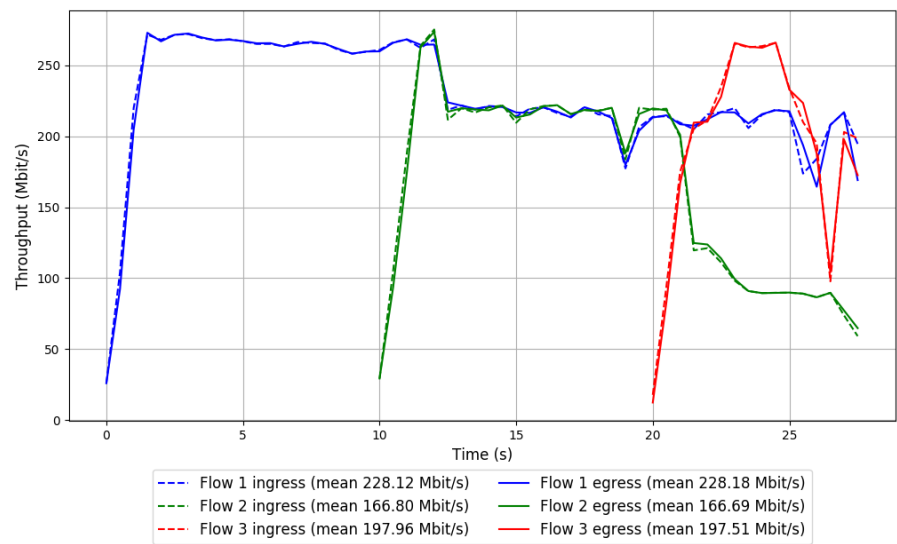
-- Flow 3:

Average throughput: 197.51 Mbit/s

95th percentile per-packet one-way delay: 62.406 ms

Loss rate: 1.53%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-17 01:10:55

End at: 2017-11-17 01:11:25

Below is generated by plot.py at 2017-11-17 04:34:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 448.80 Mbit/s

95th percentile per-packet one-way delay: 52.631 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 234.97 Mbit/s

95th percentile per-packet one-way delay: 51.816 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 238.03 Mbit/s

95th percentile per-packet one-way delay: 53.934 ms

Loss rate: 0.58%

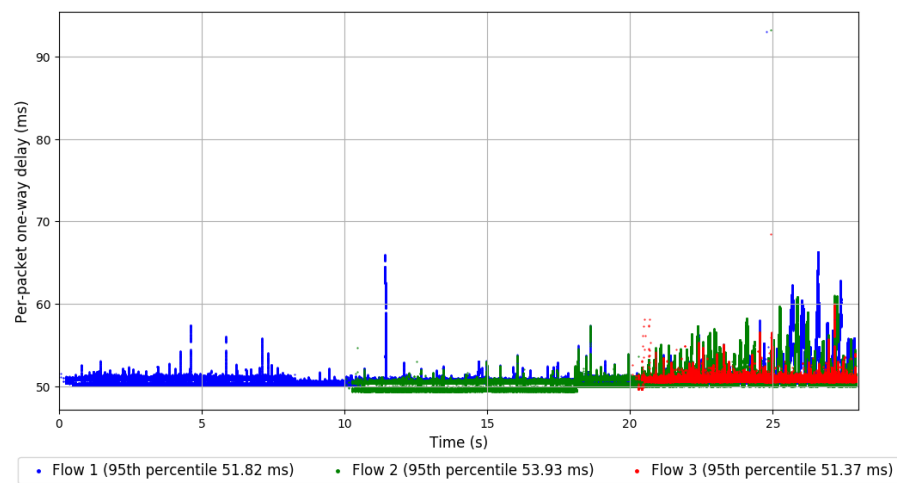
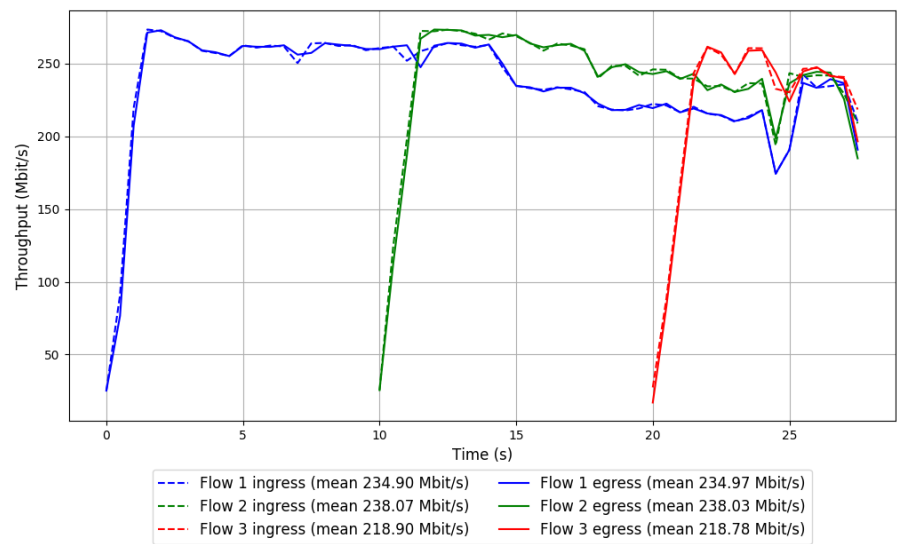
-- Flow 3:

Average throughput: 218.78 Mbit/s

95th percentile per-packet one-way delay: 51.365 ms

Loss rate: 1.36%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-17 01:23:27

End at: 2017-11-17 01:23:57

Below is generated by plot.py at 2017-11-17 04:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.08 Mbit/s

95th percentile per-packet one-way delay: 54.270 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 230.82 Mbit/s

95th percentile per-packet one-way delay: 55.836 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 249.19 Mbit/s

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

Loss rate: 0.62%

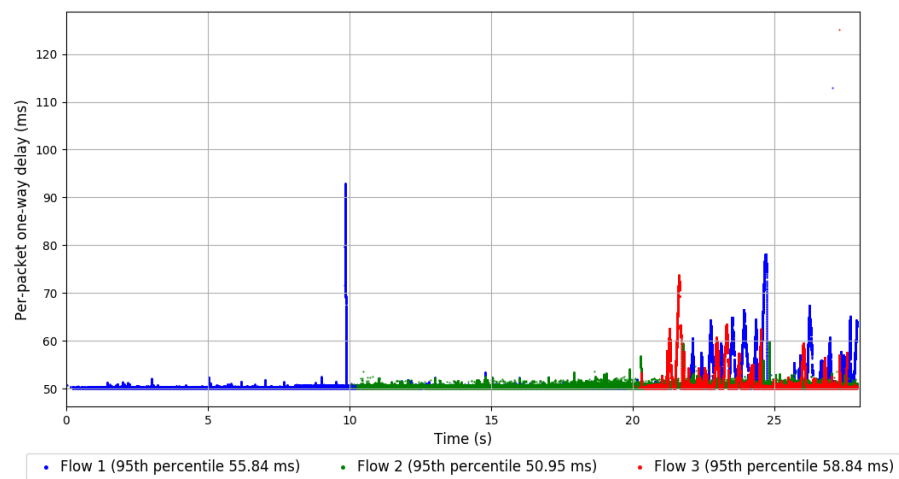
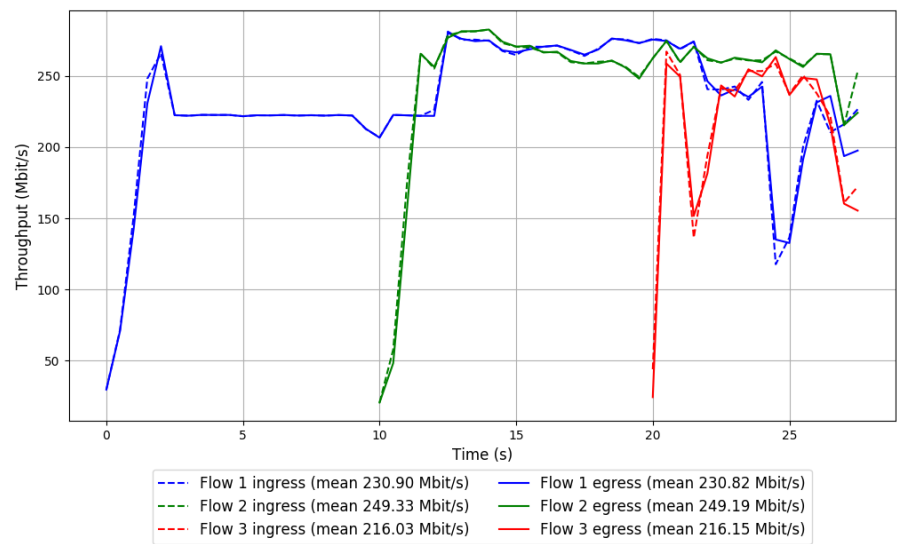
-- Flow 3:

Average throughput: 216.15 Mbit/s

95th percentile per-packet one-way delay: 58.845 ms

Loss rate: 1.26%

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

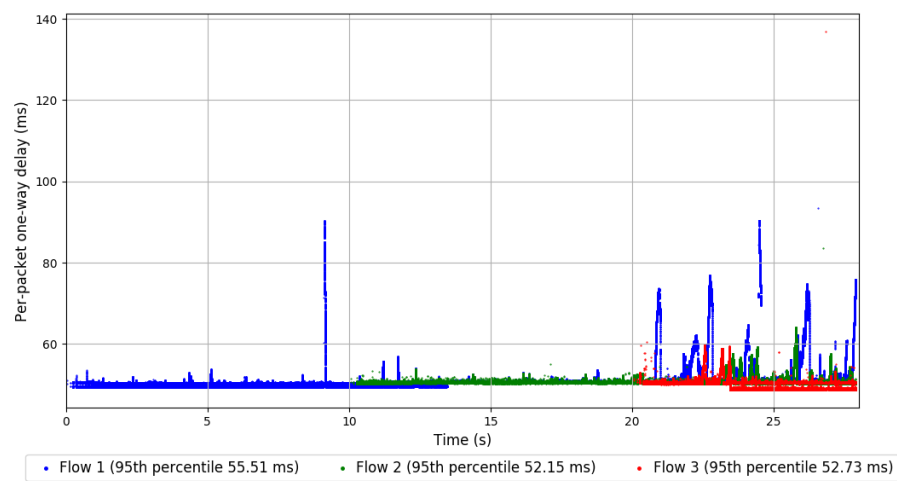
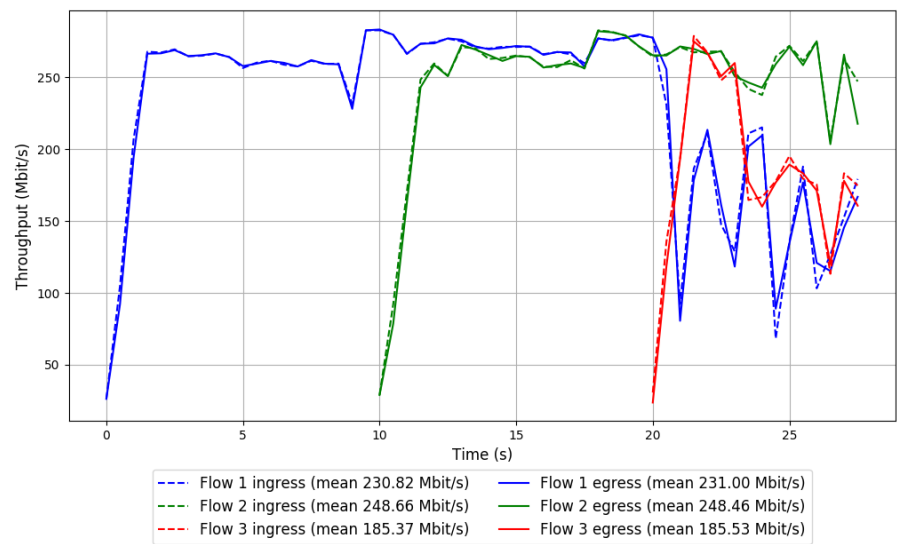


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-17 01:35:52
End at: 2017-11-17 01:36:22

# Below is generated by plot.py at 2017-11-17 04:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.34 Mbit/s
95th percentile per-packet one-way delay: 53.096 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 231.00 Mbit/s
95th percentile per-packet one-way delay: 55.508 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 248.46 Mbit/s
95th percentile per-packet one-way delay: 52.146 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 185.53 Mbit/s
95th percentile per-packet one-way delay: 52.734 ms
Loss rate: 1.22%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 23:38:47

End at: 2017-11-16 23:39:17

Below is generated by plot.py at 2017-11-17 04:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 51.106 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 33.10 Mbit/s

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

Loss rate: 0.39%

-- Flow 2:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 51.029 ms

Loss rate: 0.28%

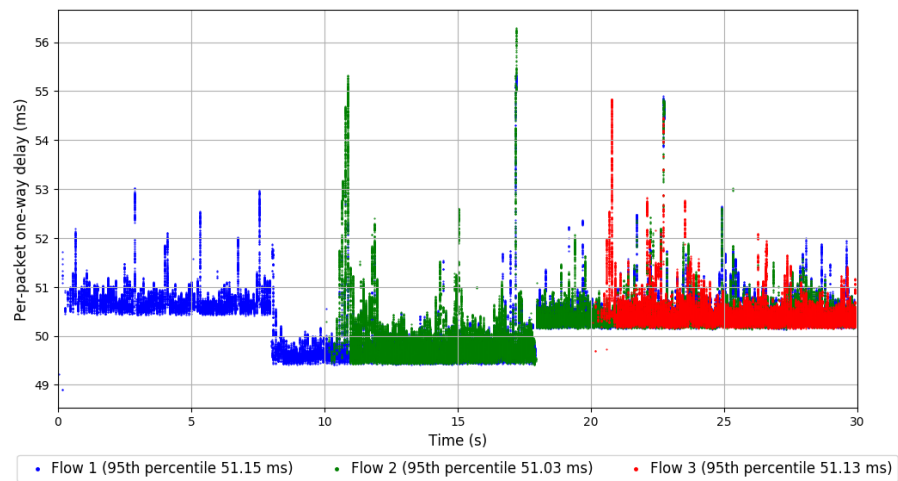
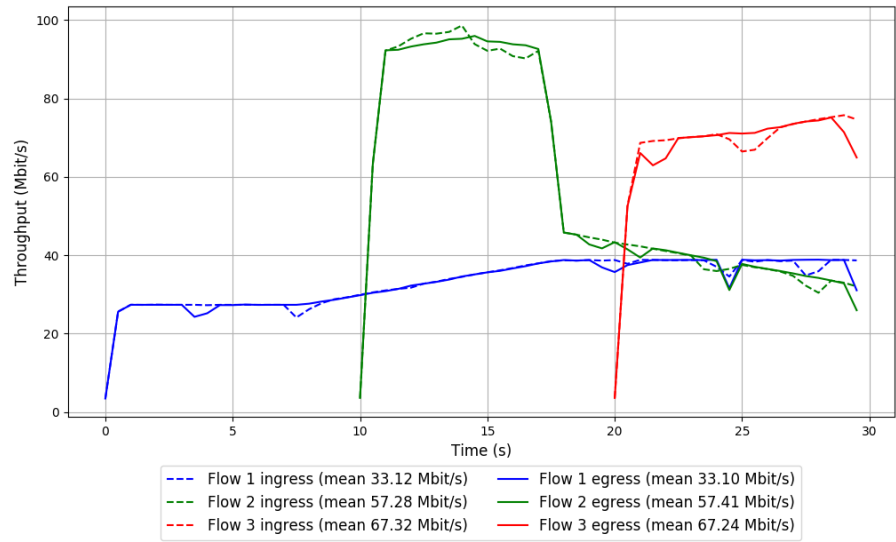
-- Flow 3:

Average throughput: 67.24 Mbit/s

95th percentile per-packet one-way delay: 51.132 ms

Loss rate: 1.14%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 23:50:58

End at: 2017-11-16 23:51:28

Below is generated by plot.py at 2017-11-17 04:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.77 Mbit/s

95th percentile per-packet one-way delay: 56.621 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 136.83 Mbit/s

95th percentile per-packet one-way delay: 57.176 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.66%

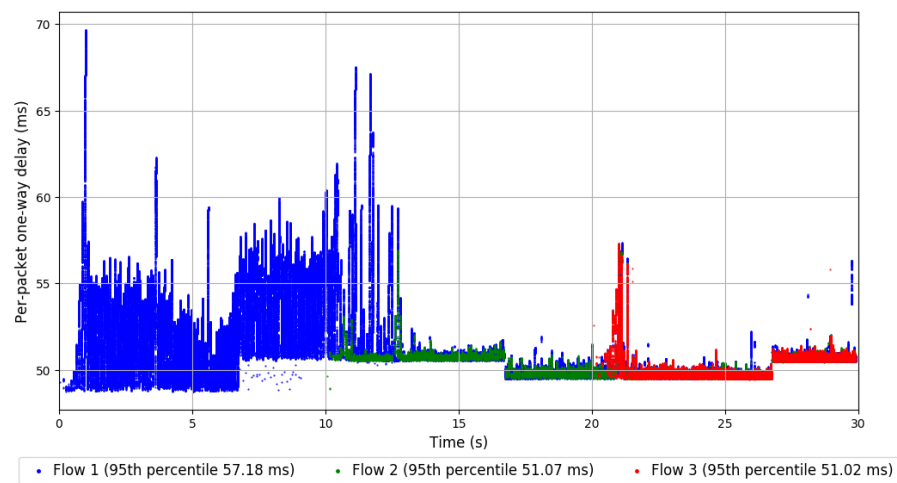
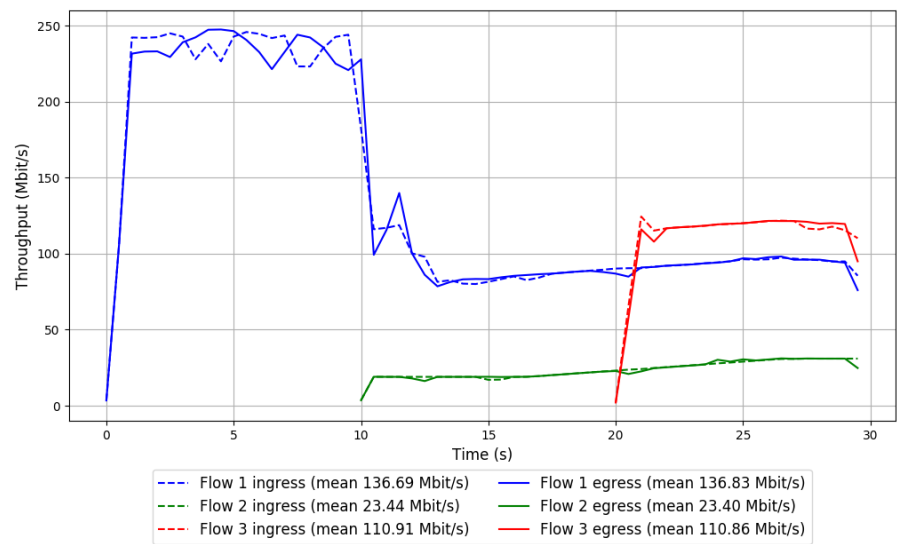
-- Flow 3:

Average throughput: 110.86 Mbit/s

95th percentile per-packet one-way delay: 51.016 ms

Loss rate: 1.08%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-17 00:03:23

End at: 2017-11-17 00:03:53

Below is generated by plot.py at 2017-11-17 04:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.81 Mbit/s

95th percentile per-packet one-way delay: 52.407 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 64.97 Mbit/s

95th percentile per-packet one-way delay: 55.284 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 84.05 Mbit/s

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

Loss rate: 0.57%

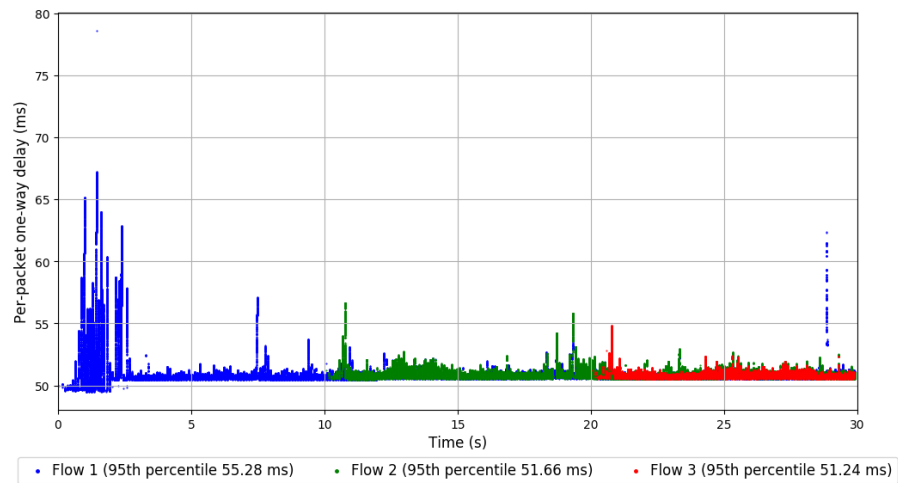
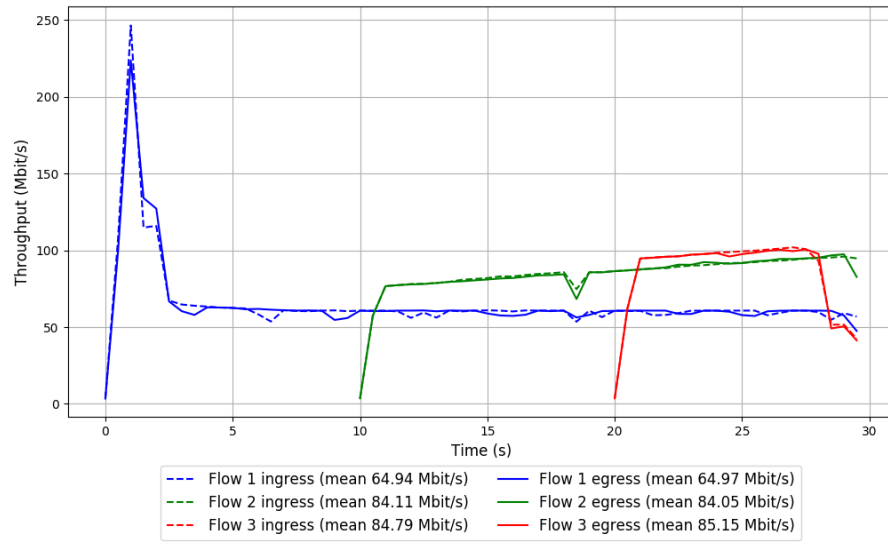
-- Flow 3:

Average throughput: 85.15 Mbit/s

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

Loss rate: 0.62%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-17 00:15:59

End at: 2017-11-17 00:16:29

Below is generated by plot.py at 2017-11-17 04:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.07 Mbit/s

95th percentile per-packet one-way delay: 53.835 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 85.83 Mbit/s

95th percentile per-packet one-way delay: 51.704 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 90.67 Mbit/s

95th percentile per-packet one-way delay: 55.296 ms

Loss rate: 0.33%

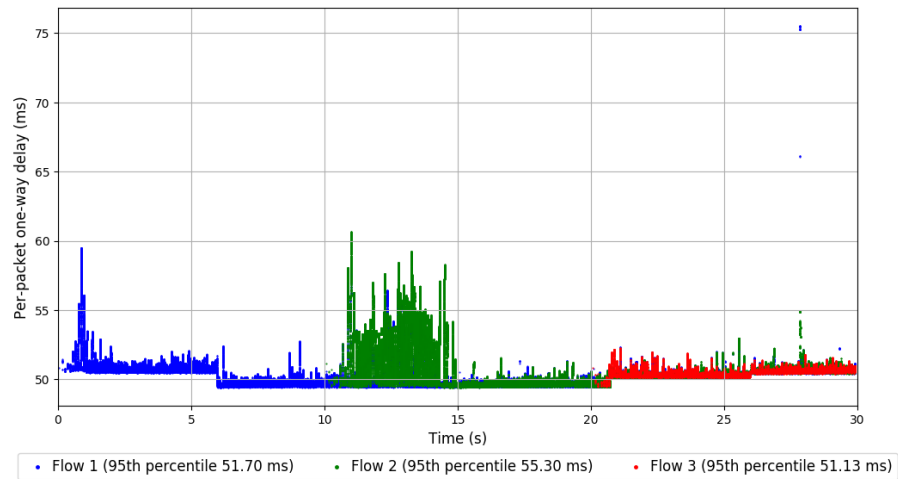
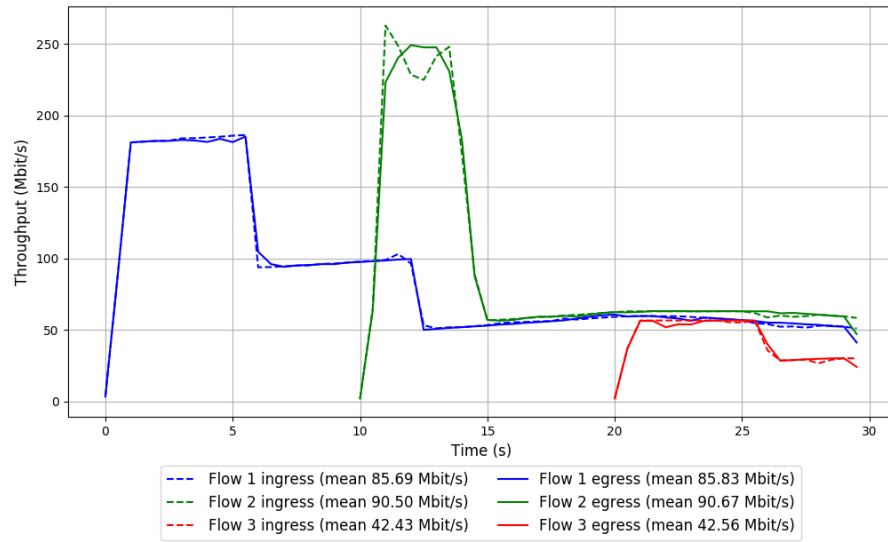
-- Flow 3:

Average throughput: 42.56 Mbit/s

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

Loss rate: 0.72%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-17 00:28:13

End at: 2017-11-17 00:28:43

Below is generated by plot.py at 2017-11-17 04:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.02 Mbit/s

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

Loss rate: 0.51%

-- Flow 1:

Average throughput: 67.05 Mbit/s

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

Loss rate: 0.33%

-- Flow 2:

Average throughput: 48.08 Mbit/s

95th percentile per-packet one-way delay: 50.735 ms

Loss rate: 0.40%

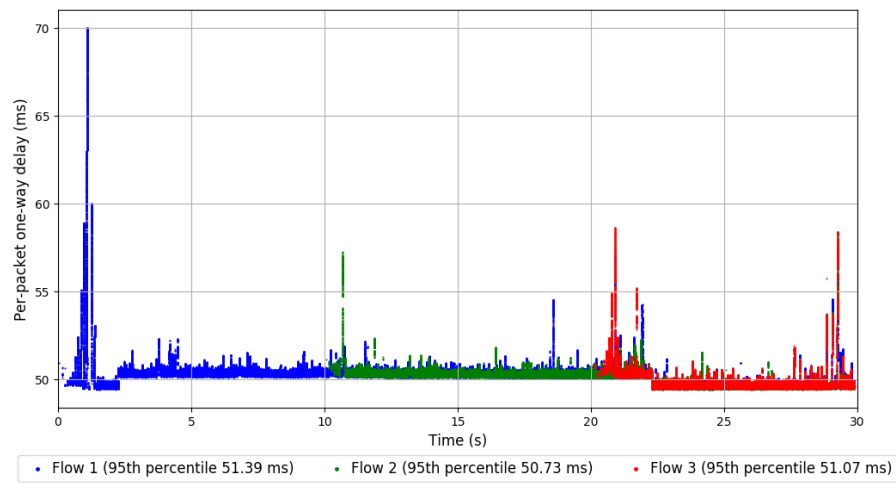
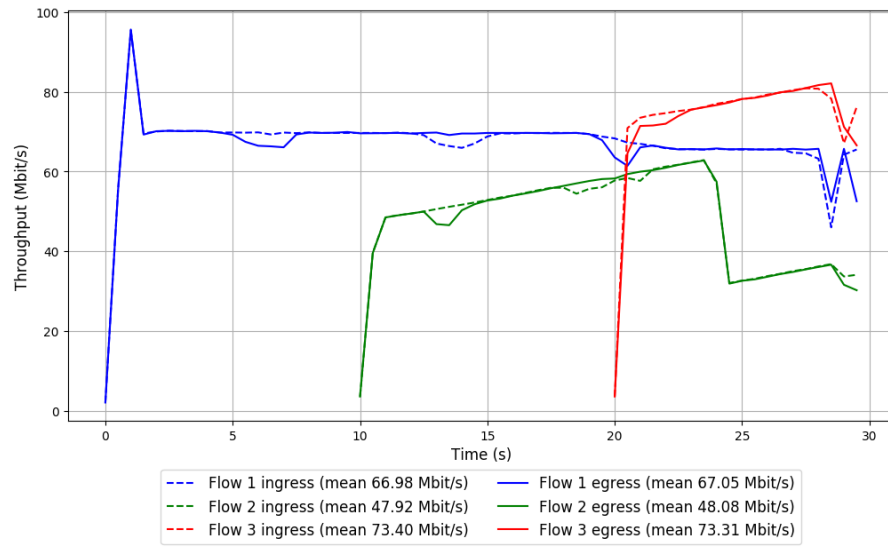
-- Flow 3:

Average throughput: 73.31 Mbit/s

95th percentile per-packet one-way delay: 51.074 ms

Loss rate: 1.15%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-17 00:40:39

End at: 2017-11-17 00:41:09

Below is generated by plot.py at 2017-11-17 04:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.73 Mbit/s

95th percentile per-packet one-way delay: 51.680 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 75.02 Mbit/s

95th percentile per-packet one-way delay: 51.878 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 51.374 ms

Loss rate: 0.30%

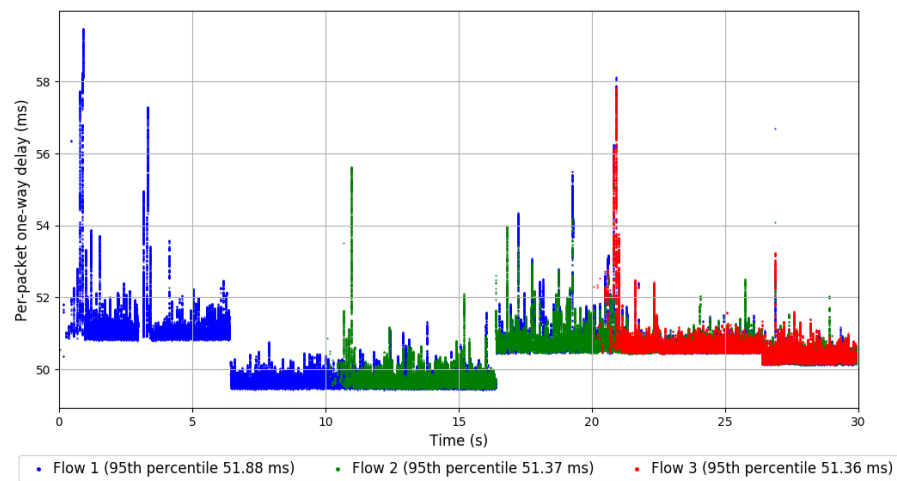
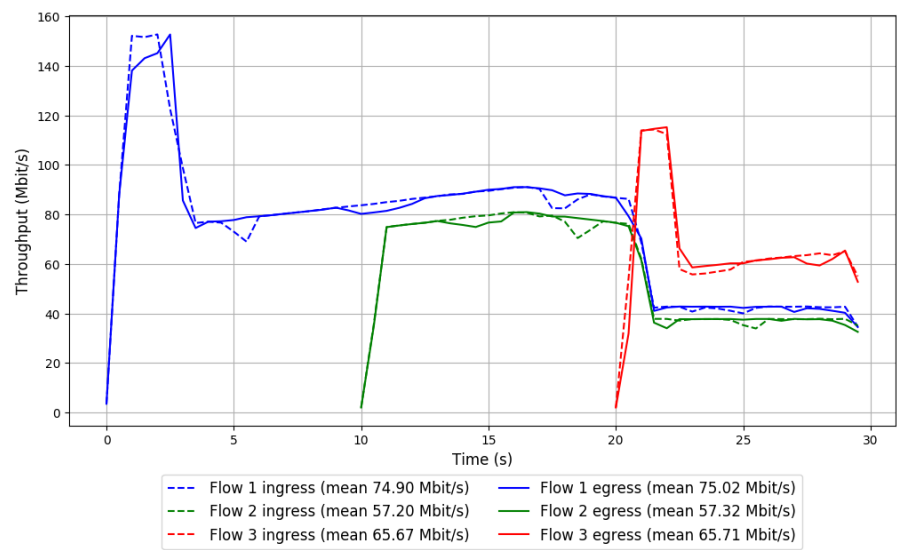
-- Flow 3:

Average throughput: 65.71 Mbit/s

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

Loss rate: 1.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-17 00:52:55

End at: 2017-11-17 00:53:25

Below is generated by plot.py at 2017-11-17 04:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.06 Mbit/s

95th percentile per-packet one-way delay: 54.742 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 75.73 Mbit/s

95th percentile per-packet one-way delay: 51.804 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 53.565 ms

Loss rate: 0.39%

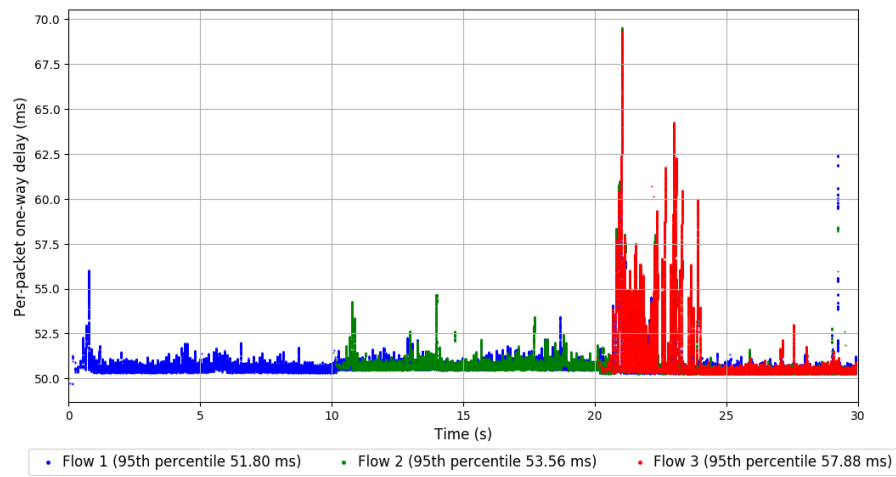
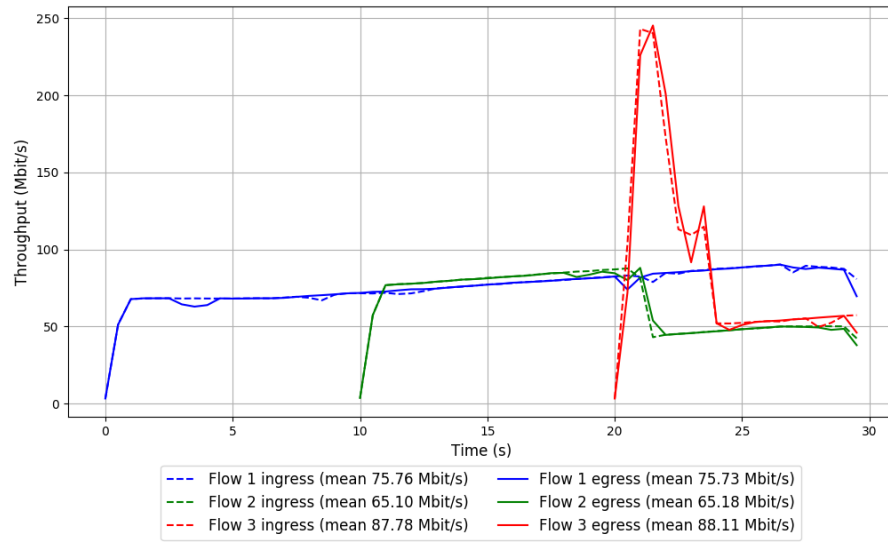
-- Flow 3:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 57.881 ms

Loss rate: 0.66%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-17 01:04:59

End at: 2017-11-17 01:05:29

Below is generated by plot.py at 2017-11-17 04:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.47 Mbit/s

95th percentile per-packet one-way delay: 51.183 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 74.35 Mbit/s

95th percentile per-packet one-way delay: 50.941 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 51.085 ms

Loss rate: 0.64%

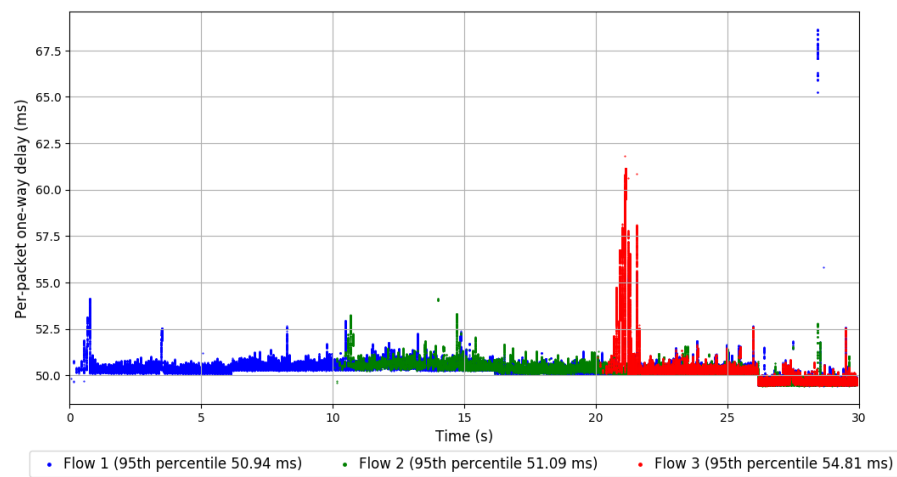
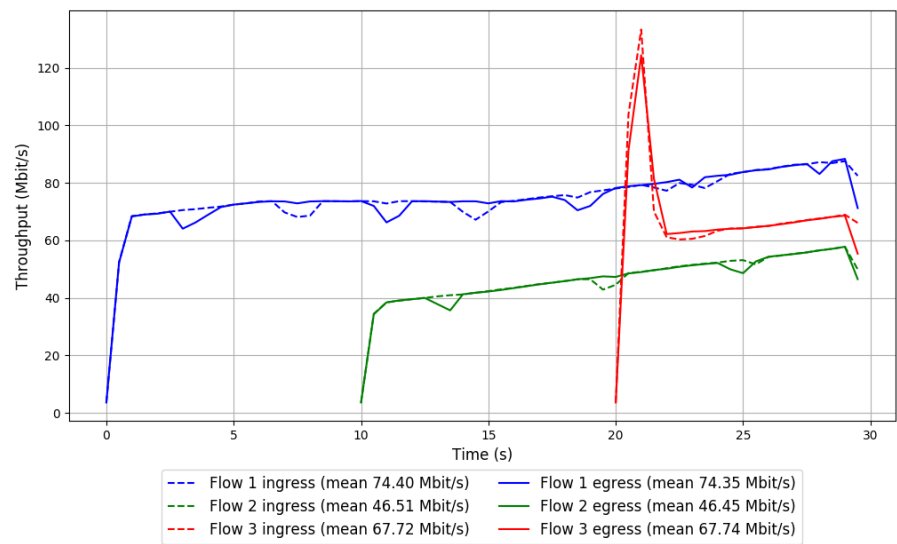
-- Flow 3:

Average throughput: 67.74 Mbit/s

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

Loss rate: 1.03%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-17 01:17:09

End at: 2017-11-17 01:17:39

Below is generated by plot.py at 2017-11-17 04:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.04 Mbit/s

95th percentile per-packet one-way delay: 51.086 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 51.078 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 165.33 Mbit/s

95th percentile per-packet one-way delay: 50.982 ms

Loss rate: 0.51%

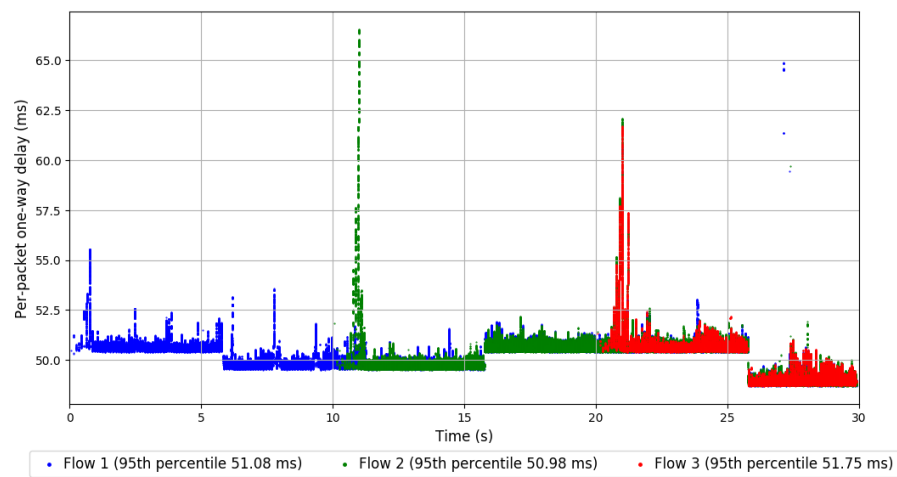
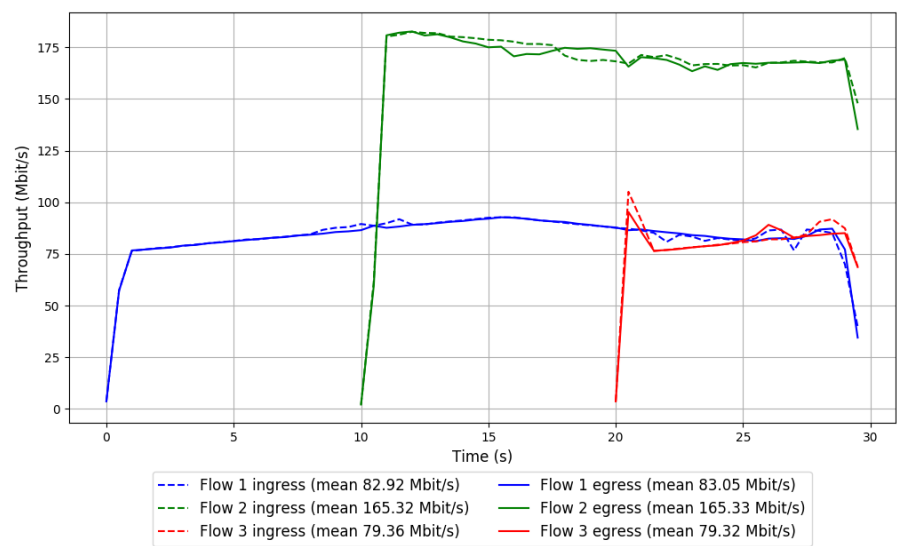
-- Flow 3:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 51.753 ms

Loss rate: 1.09%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-17 01:29:43

End at: 2017-11-17 01:30:13

Below is generated by plot.py at 2017-11-17 04:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.62 Mbit/s

95th percentile per-packet one-way delay: 51.337 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 67.28 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 75.79 Mbit/s

95th percentile per-packet one-way delay: 51.192 ms

Loss rate: 0.45%

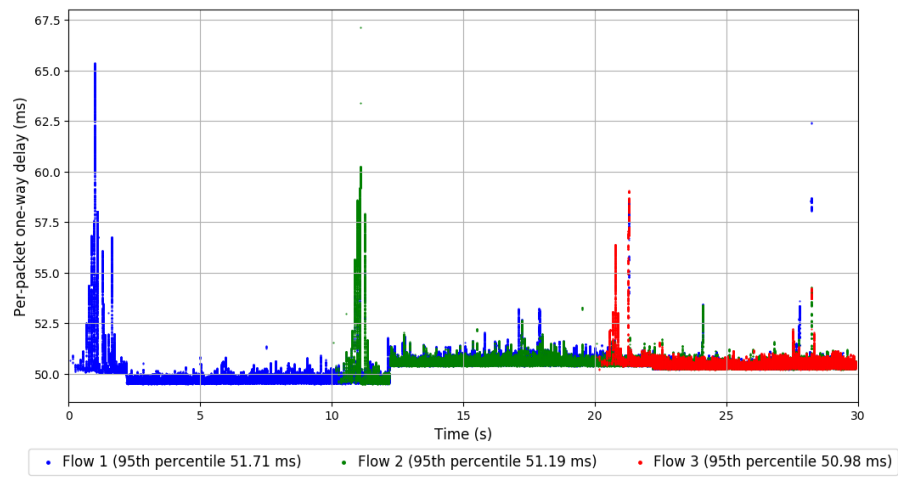
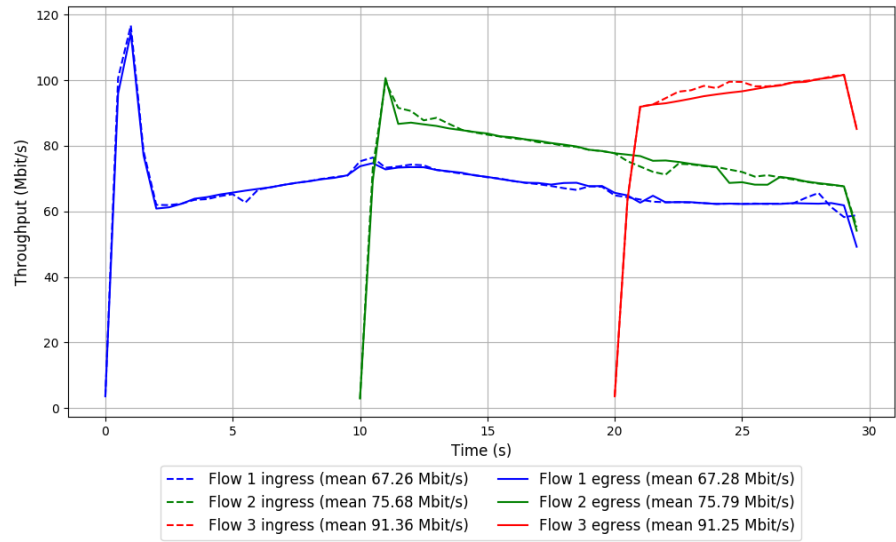
-- Flow 3:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 50.985 ms

Loss rate: 1.12%

Run 10: Report of TCP Vegas — Data Link

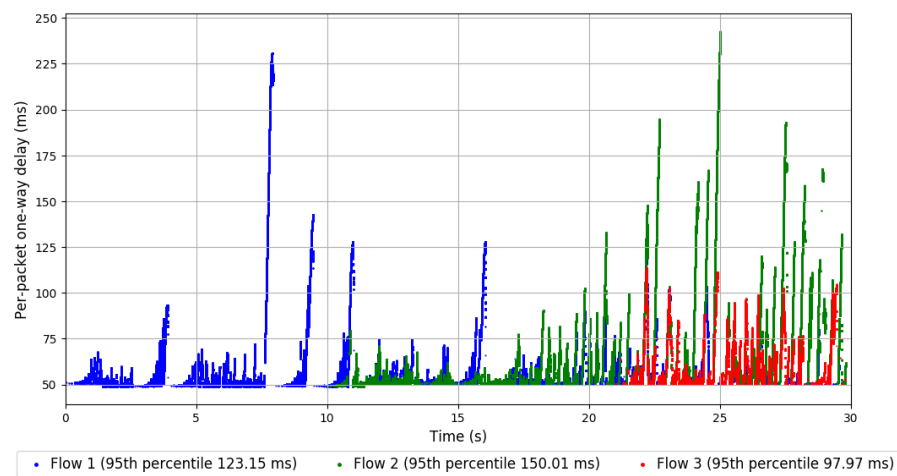
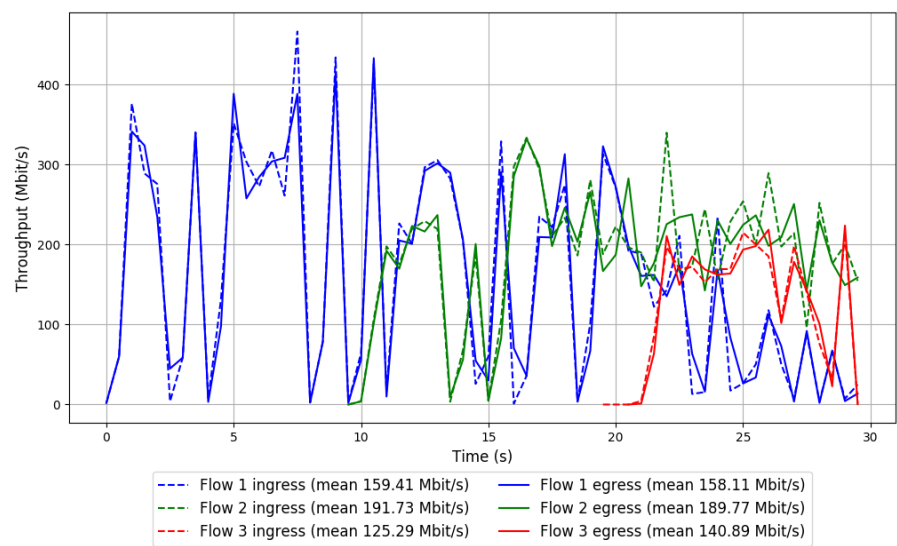


```
Run 1: Statistics of Verus

Start at: 2017-11-16 23:43:03
End at: 2017-11-16 23:43:33

# Below is generated by plot.py at 2017-11-17 04:38:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.18 Mbit/s
95th percentile per-packet one-way delay: 127.912 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 158.11 Mbit/s
95th percentile per-packet one-way delay: 123.150 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 189.77 Mbit/s
95th percentile per-packet one-way delay: 150.012 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 140.89 Mbit/s
95th percentile per-packet one-way delay: 97.972 ms
Loss rate: 0.02%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 23:55:20

End at: 2017-11-16 23:55:50

Below is generated by plot.py at 2017-11-17 04:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.06 Mbit/s

95th percentile per-packet one-way delay: 95.109 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 196.71 Mbit/s

95th percentile per-packet one-way delay: 104.615 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 140.63 Mbit/s

95th percentile per-packet one-way delay: 76.092 ms

Loss rate: 0.49%

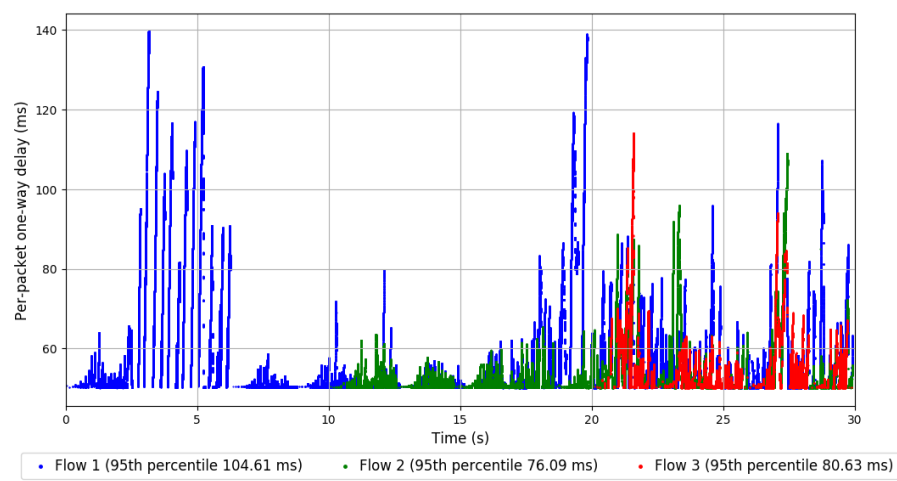
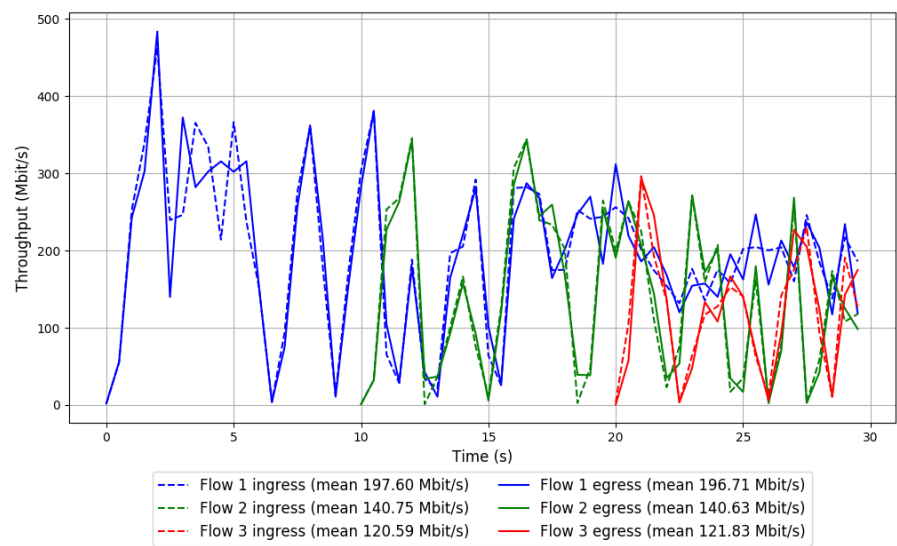
-- Flow 3:

Average throughput: 121.83 Mbit/s

95th percentile per-packet one-way delay: 80.634 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-17 00:07:55

End at: 2017-11-17 00:08:25

Below is generated by plot.py at 2017-11-17 04:38:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.69 Mbit/s

95th percentile per-packet one-way delay: 162.628 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 237.08 Mbit/s

95th percentile per-packet one-way delay: 151.604 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 192.52 Mbit/s

95th percentile per-packet one-way delay: 192.442 ms

Loss rate: 1.54%

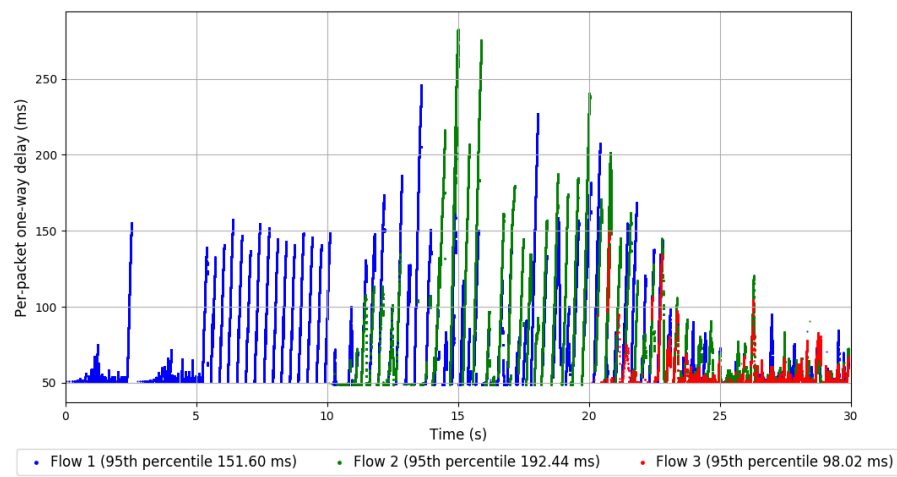
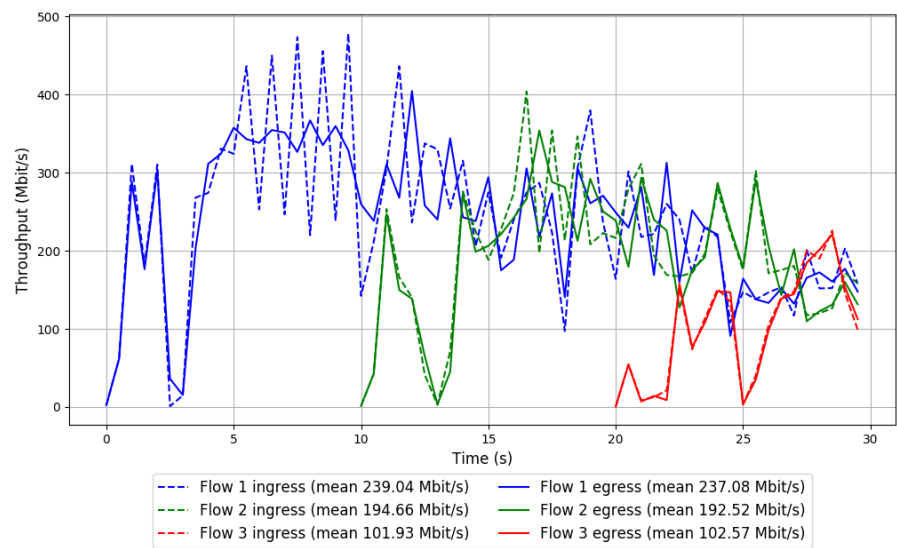
-- Flow 3:

Average throughput: 102.57 Mbit/s

95th percentile per-packet one-way delay: 98.015 ms

Loss rate: 0.22%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-17 00:20:09

End at: 2017-11-17 00:20:39

Below is generated by plot.py at 2017-11-17 04:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.99 Mbit/s

95th percentile per-packet one-way delay: 150.367 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 269.20 Mbit/s

95th percentile per-packet one-way delay: 144.579 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 126.88 Mbit/s

95th percentile per-packet one-way delay: 144.823 ms

Loss rate: 1.80%

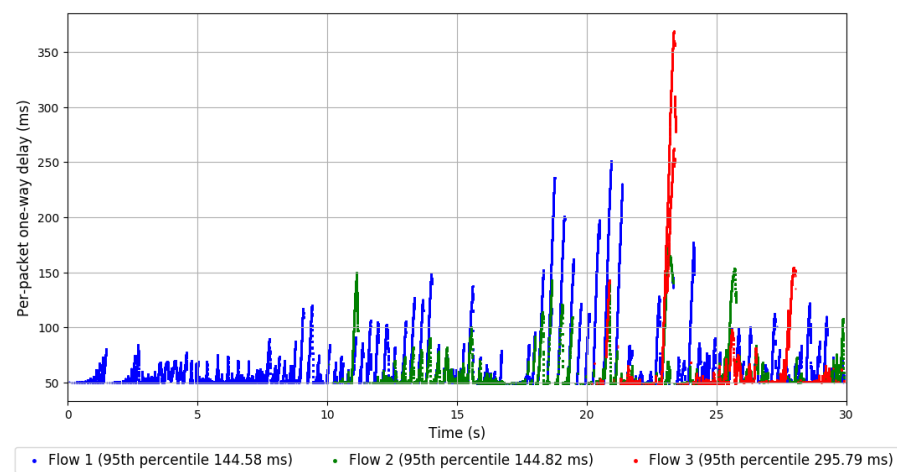
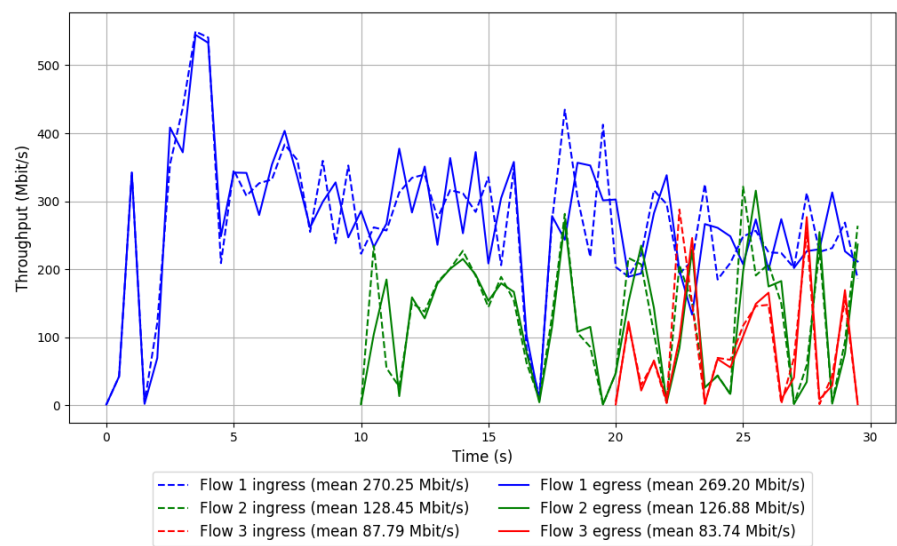
-- Flow 3:

Average throughput: 83.74 Mbit/s

95th percentile per-packet one-way delay: 295.787 ms

Loss rate: 5.58%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-17 00:32:42

End at: 2017-11-17 00:33:12

Below is generated by plot.py at 2017-11-17 04:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.42 Mbit/s

95th percentile per-packet one-way delay: 132.076 ms

Loss rate: 4.20%

-- Flow 1:

Average throughput: 201.75 Mbit/s

95th percentile per-packet one-way delay: 107.066 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 288.418 ms

Loss rate: 16.28%

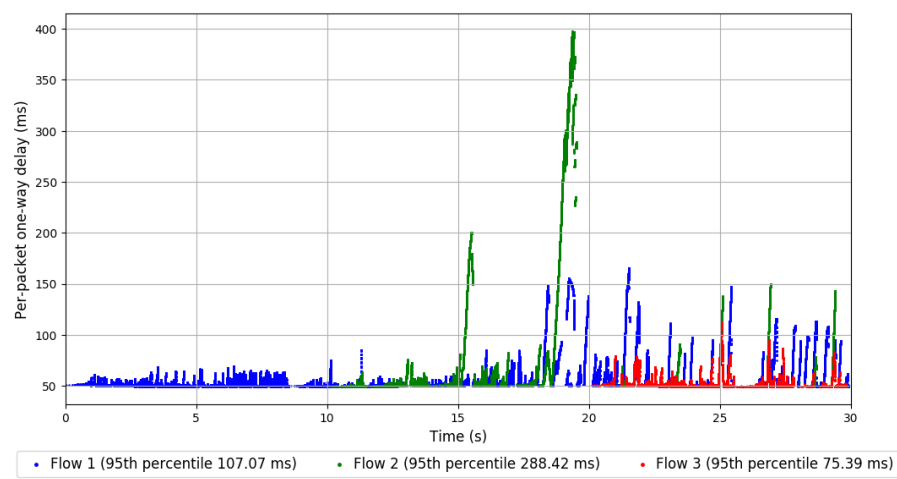
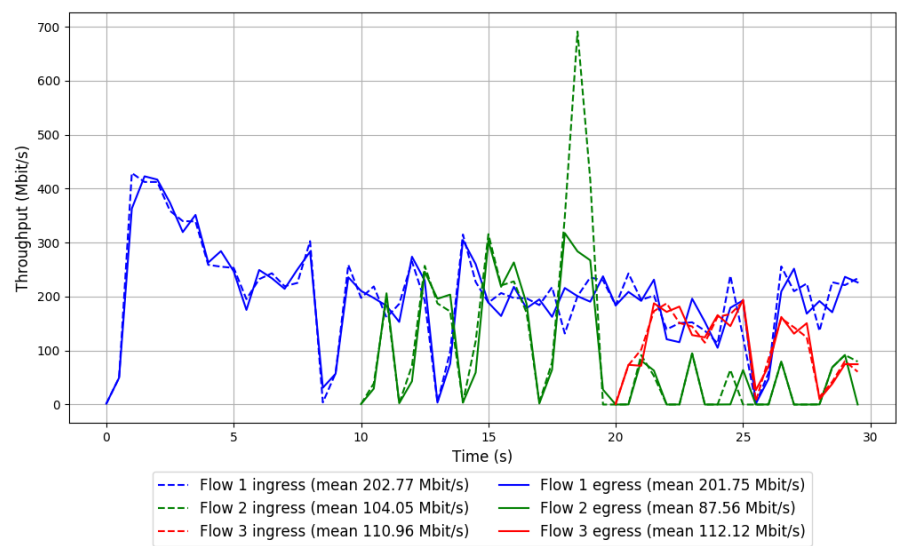
-- Flow 3:

Average throughput: 112.12 Mbit/s

95th percentile per-packet one-way delay: 75.394 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-17 00:44:57

End at: 2017-11-17 00:45:27

Below is generated by plot.py at 2017-11-17 04:42:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 423.36 Mbit/s

95th percentile per-packet one-way delay: 176.391 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 304.64 Mbit/s

95th percentile per-packet one-way delay: 181.872 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 138.50 Mbit/s

95th percentile per-packet one-way delay: 128.915 ms

Loss rate: 1.50%

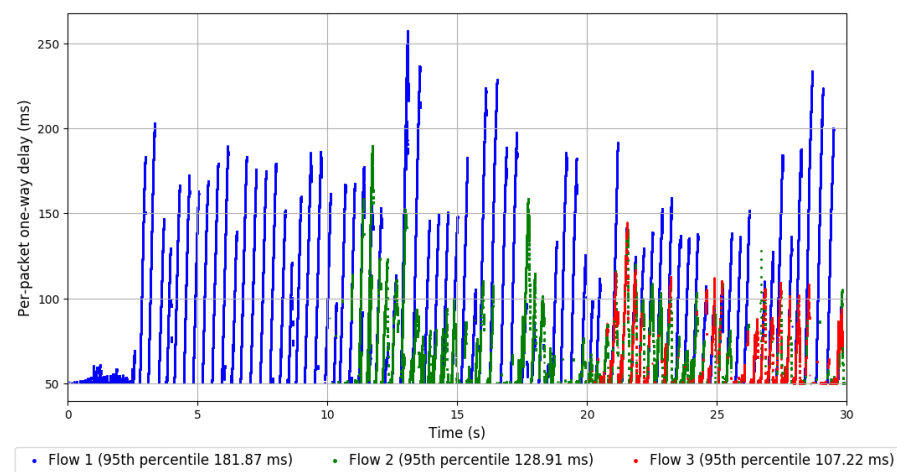
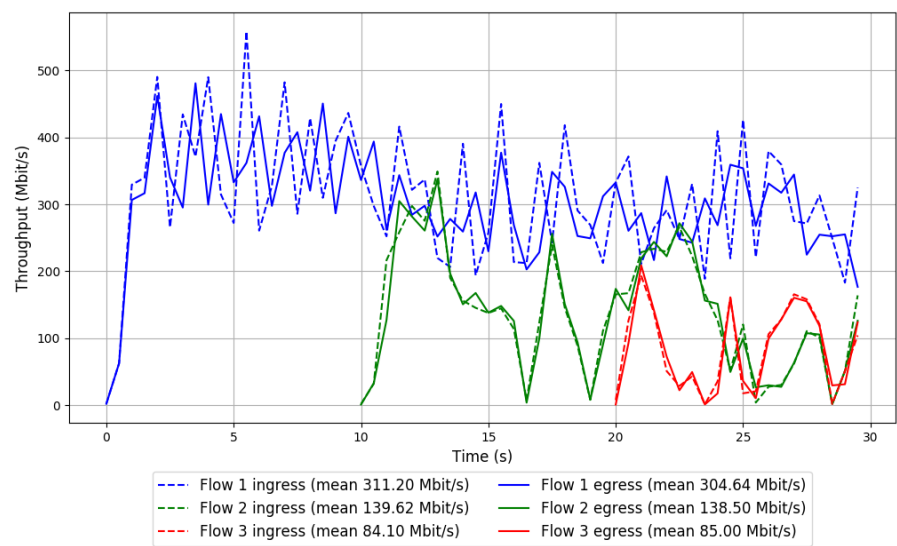
-- Flow 3:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 107.225 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-17 00:57:05

End at: 2017-11-17 00:57:35

Below is generated by plot.py at 2017-11-17 04:42:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.11 Mbit/s

95th percentile per-packet one-way delay: 90.414 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 73.799 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 135.85 Mbit/s

95th percentile per-packet one-way delay: 106.736 ms

Loss rate: 0.01%

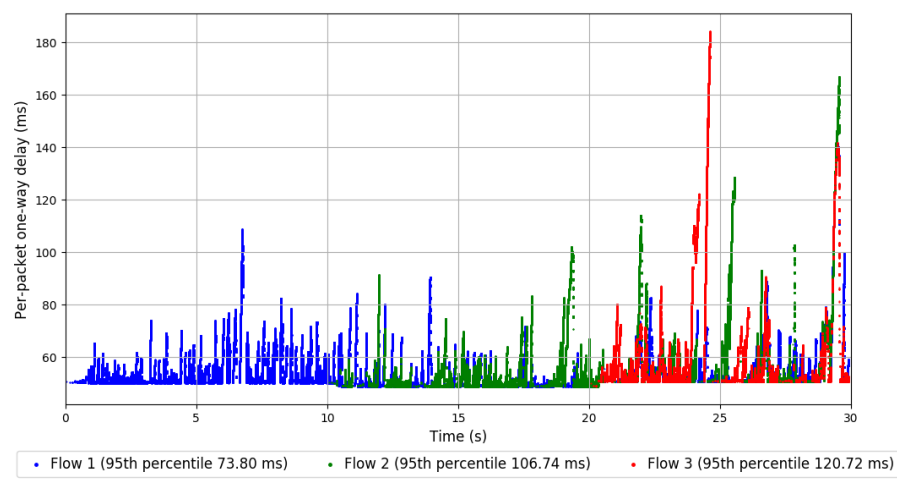
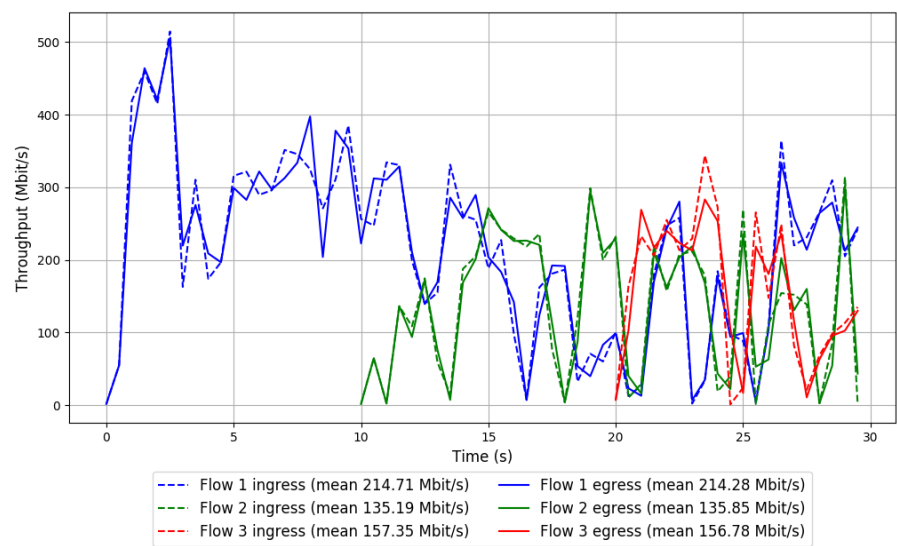
-- Flow 3:

Average throughput: 156.78 Mbit/s

95th percentile per-packet one-way delay: 120.721 ms

Loss rate: 1.42%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-17 01:09:11

End at: 2017-11-17 01:09:41

Below is generated by plot.py at 2017-11-17 04:42:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.21 Mbit/s

95th percentile per-packet one-way delay: 155.839 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 171.77 Mbit/s

95th percentile per-packet one-way delay: 109.730 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 216.177 ms

Loss rate: 3.30%

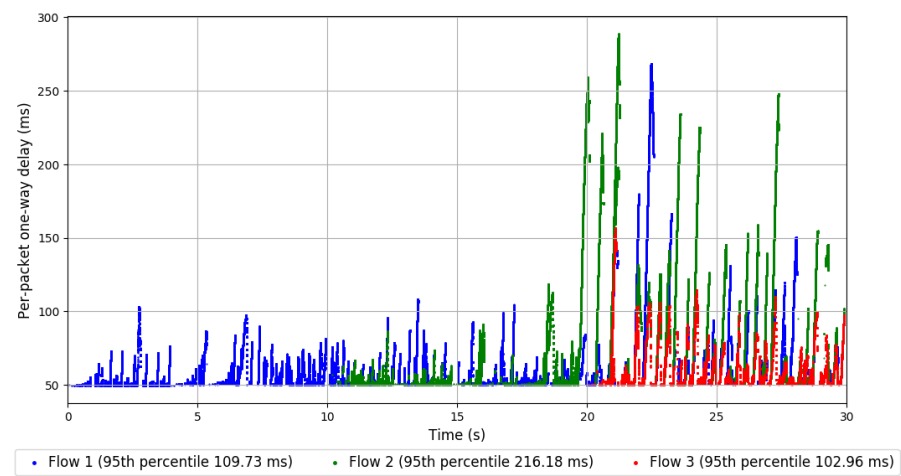
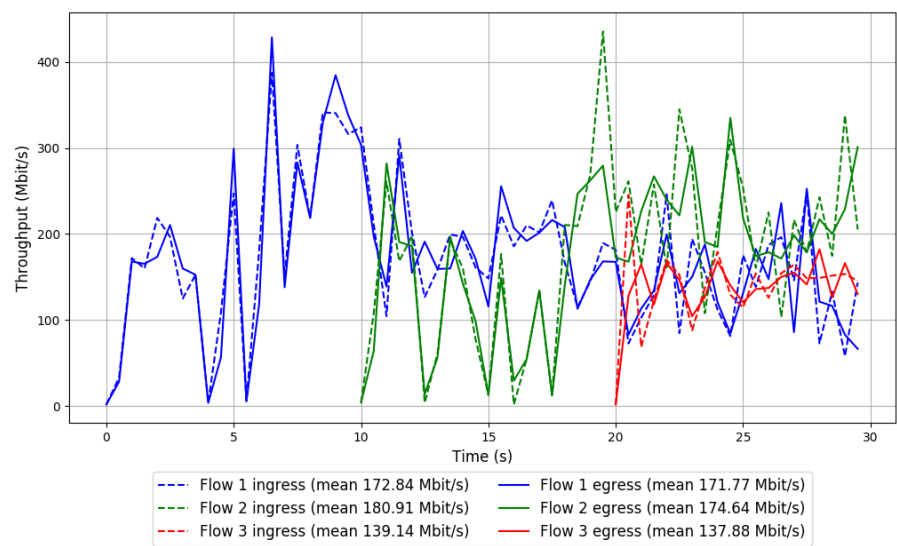
-- Flow 3:

Average throughput: 137.88 Mbit/s

95th percentile per-packet one-way delay: 102.956 ms

Loss rate: 1.67%

Run 8: Report of Verus — Data Link

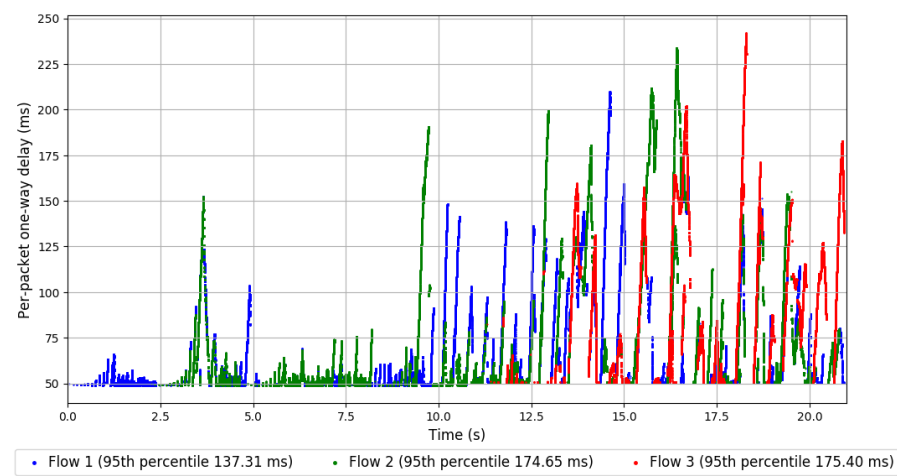
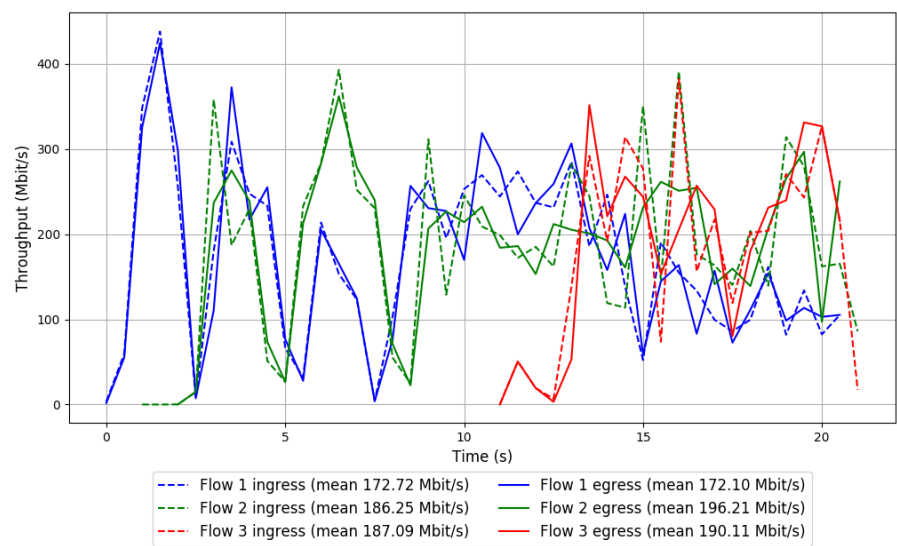


Run 9: Statistics of Verus

Start at: 2017-11-17 01:21:45

End at: 2017-11-17 01:22:15

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-17 01:34:04

End at: 2017-11-17 01:34:34

Below is generated by plot.py at 2017-11-17 04:45:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.00 Mbit/s

95th percentile per-packet one-way delay: 114.963 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 217.28 Mbit/s

95th percentile per-packet one-way delay: 83.254 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 201.87 Mbit/s

95th percentile per-packet one-way delay: 189.388 ms

Loss rate: 2.34%

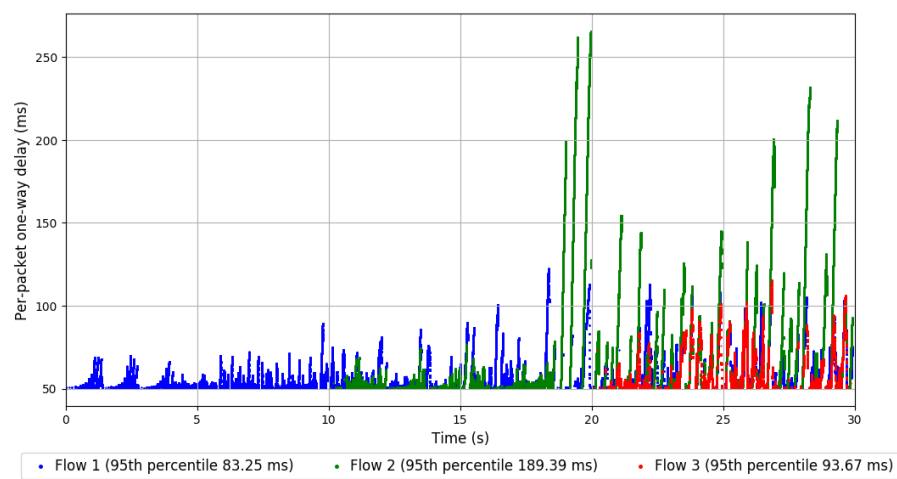
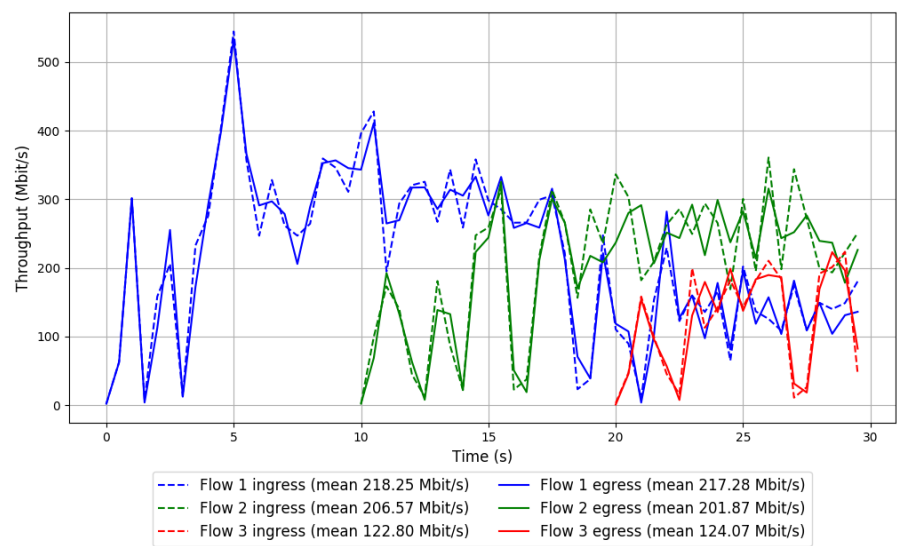
-- Flow 3:

Average throughput: 124.07 Mbit/s

95th percentile per-packet one-way delay: 93.667 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

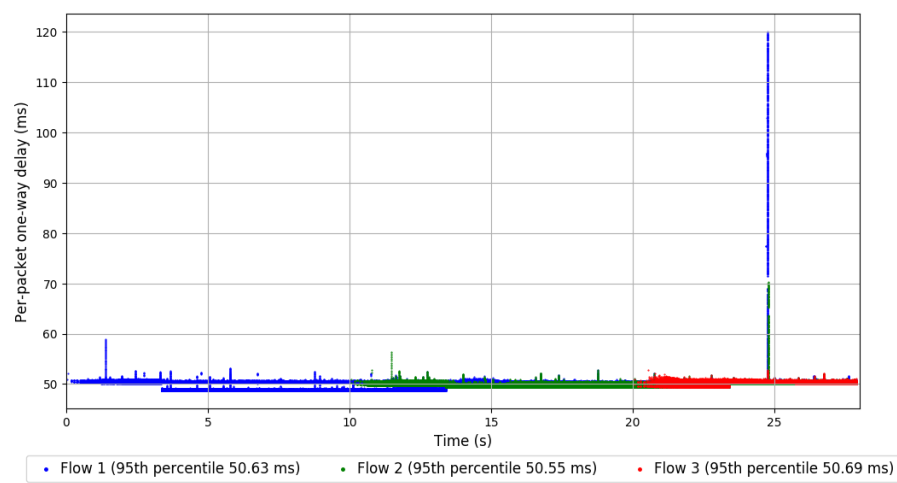
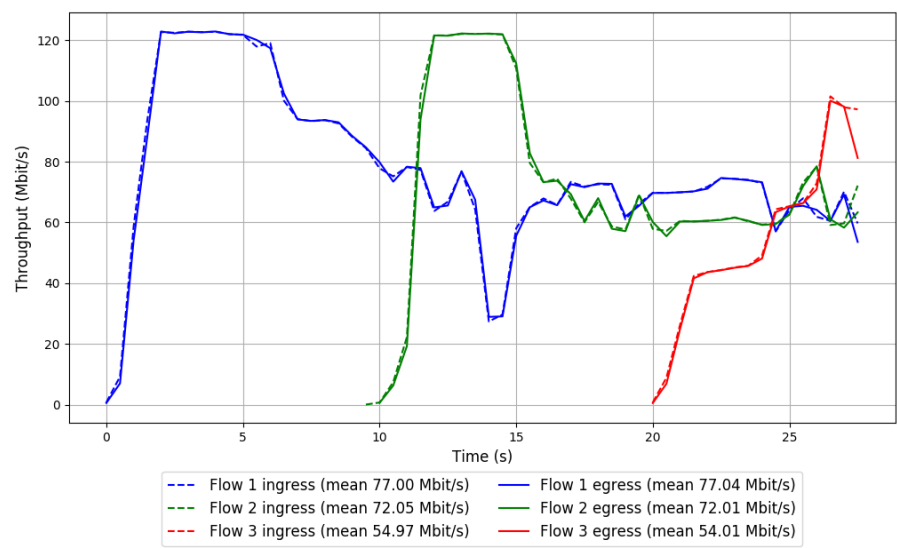


```
Run 1: Statistics of Copa

Start at: 2017-11-16 23:37:00
End at: 2017-11-16 23:37:30

# Below is generated by plot.py at 2017-11-17 04:45:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.38 Mbit/s
95th percentile per-packet one-way delay: 50.615 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 50.635 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 50.549 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 50.694 ms
Loss rate: 2.98%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 23:49:13

End at: 2017-11-16 23:49:43

Below is generated by plot.py at 2017-11-17 04:45:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.49 Mbit/s

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

Loss rate: 0.52%

-- Flow 1:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 50.679 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 70.71 Mbit/s

95th percentile per-packet one-way delay: 50.722 ms

Loss rate: 0.52%

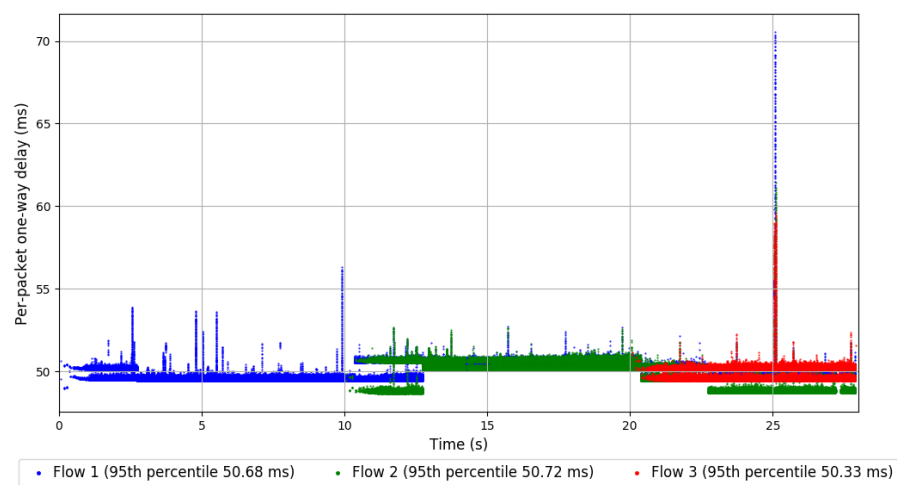
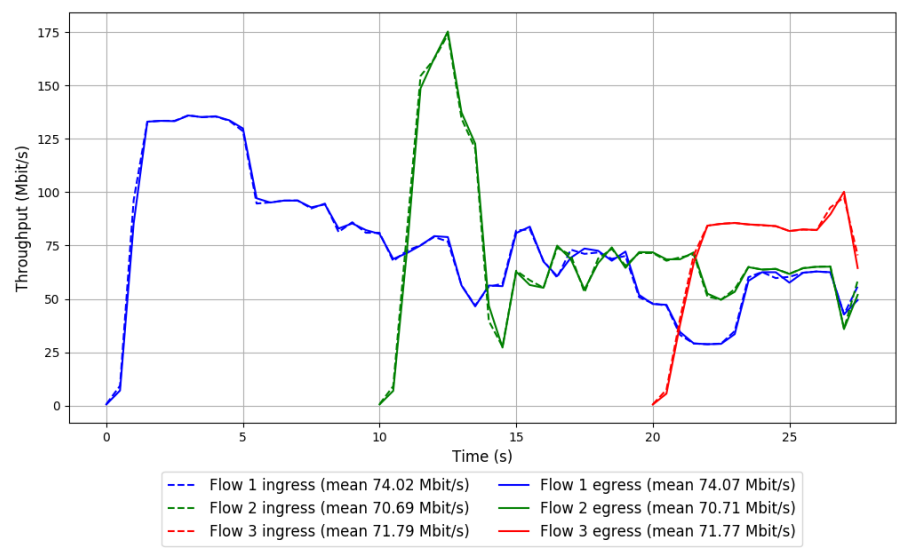
-- Flow 3:

Average throughput: 71.77 Mbit/s

95th percentile per-packet one-way delay: 50.331 ms

Loss rate: 1.31%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-17 00:01:36

End at: 2017-11-17 00:02:06

Below is generated by plot.py at 2017-11-17 04:45:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.34 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 50.648 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 85.22 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.52%

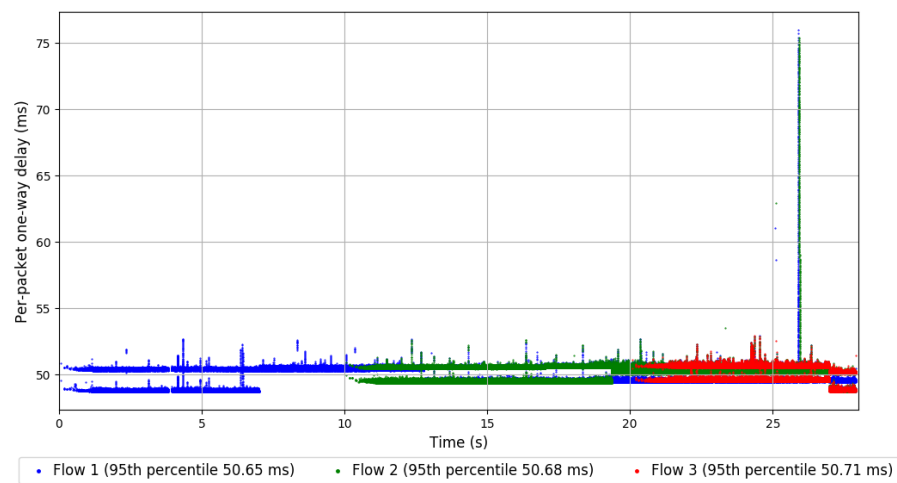
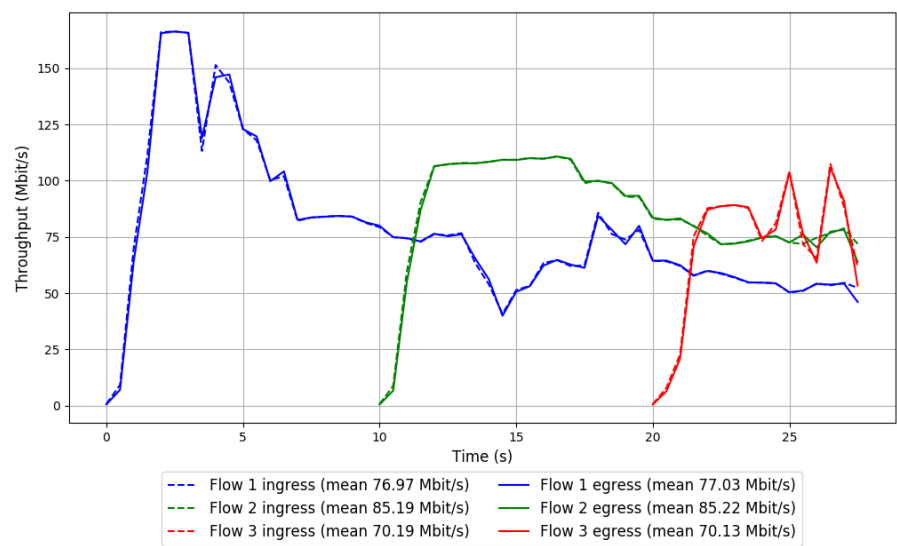
-- Flow 3:

Average throughput: 70.13 Mbit/s

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

Loss rate: 1.35%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-17 00:14:14

End at: 2017-11-17 00:14:44

Below is generated by plot.py at 2017-11-17 04:46:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.18 Mbit/s

95th percentile per-packet one-way delay: 50.735 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 72.03 Mbit/s

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

Loss rate: 0.20%

-- Flow 2:

Average throughput: 71.94 Mbit/s

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

Loss rate: 0.37%

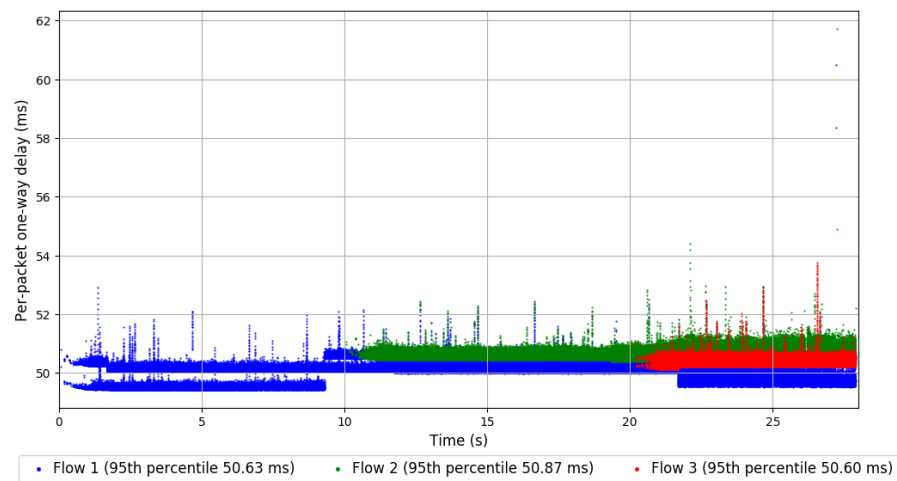
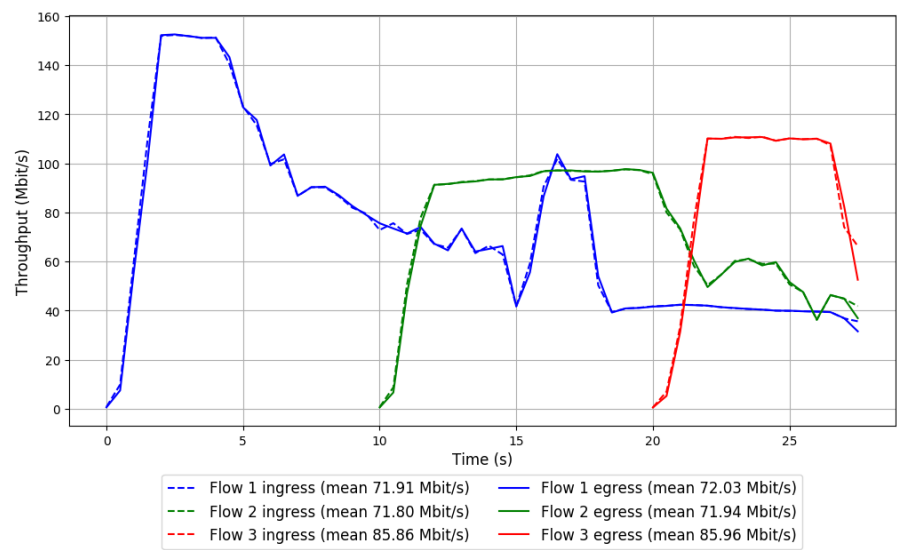
-- Flow 3:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 50.596 ms

Loss rate: 1.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-17 00:26:23

End at: 2017-11-17 00:26:53

Below is generated by plot.py at 2017-11-17 04:46:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.81 Mbit/s

95th percentile per-packet one-way delay: 50.620 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 50.563 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 71.81 Mbit/s

95th percentile per-packet one-way delay: 50.751 ms

Loss rate: 0.40%

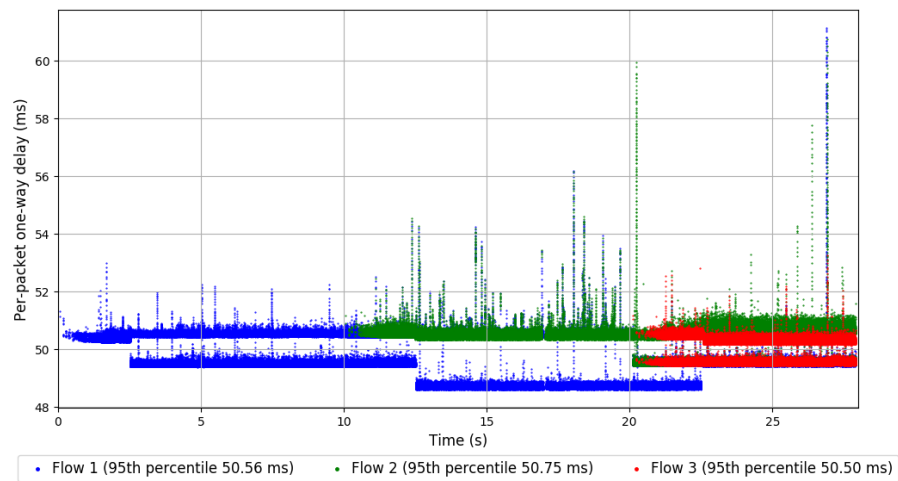
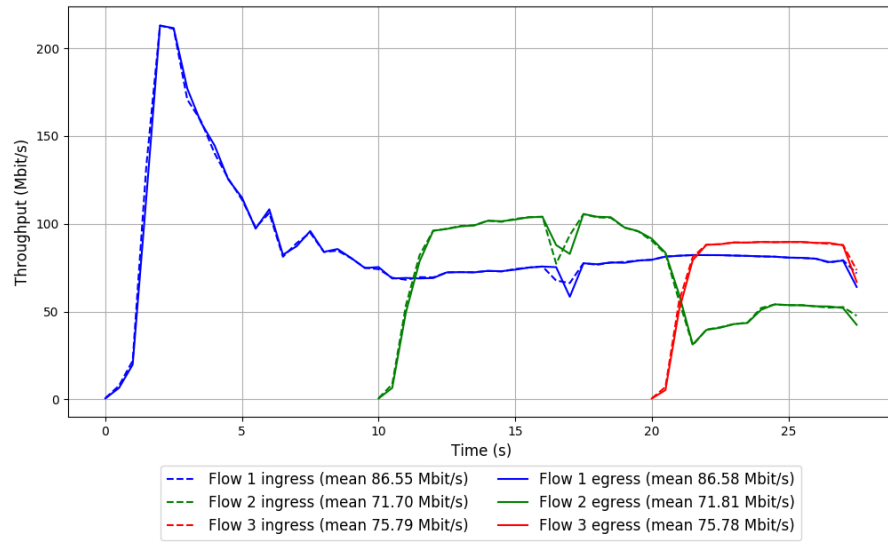
-- Flow 3:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 50.496 ms

Loss rate: 1.29%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-17 00:38:54

End at: 2017-11-17 00:39:24

Below is generated by plot.py at 2017-11-17 04:46:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.72 Mbit/s

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

Loss rate: 0.50%

-- Flow 1:

Average throughput: 80.05 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 49.821 ms

Loss rate: 0.54%

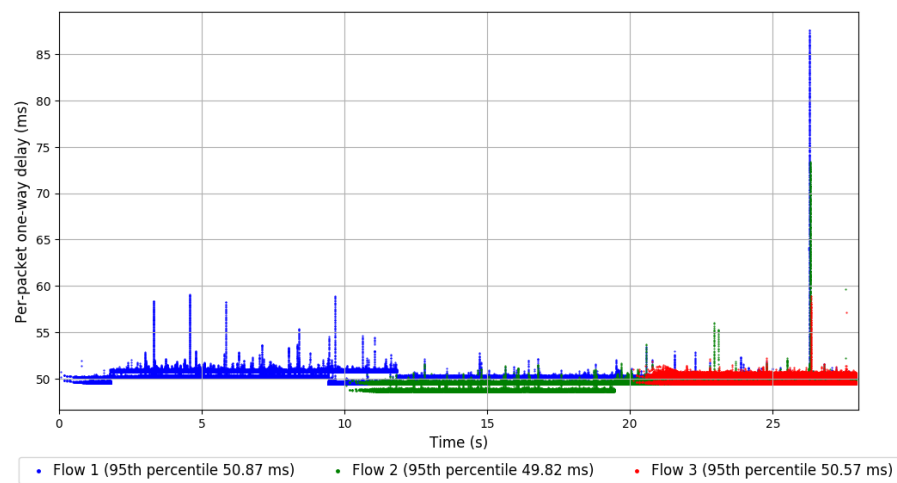
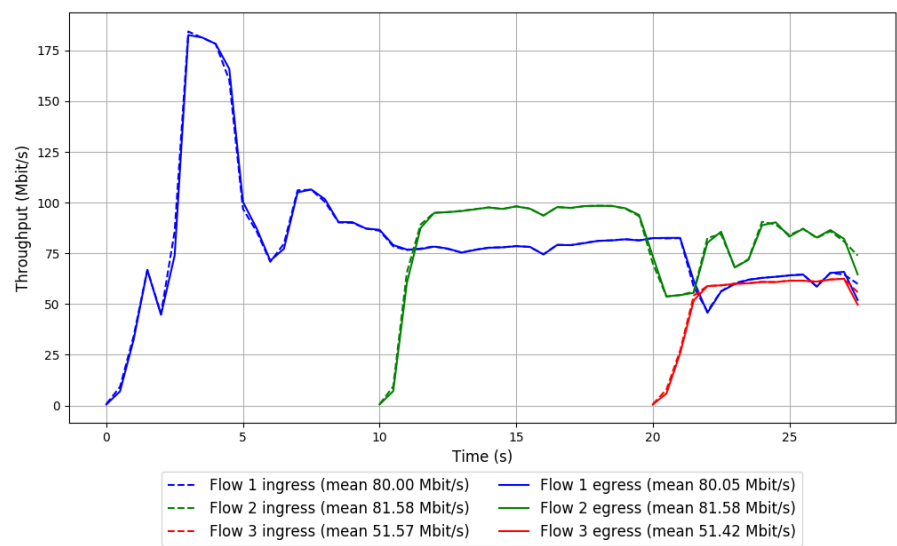
-- Flow 3:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 50.569 ms

Loss rate: 1.52%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-17 00:51:11

End at: 2017-11-17 00:51:41

Below is generated by plot.py at 2017-11-17 04:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.43 Mbit/s

95th percentile per-packet one-way delay: 50.690 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 80.91 Mbit/s

95th percentile per-packet one-way delay: 50.608 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 50.916 ms

Loss rate: 0.44%

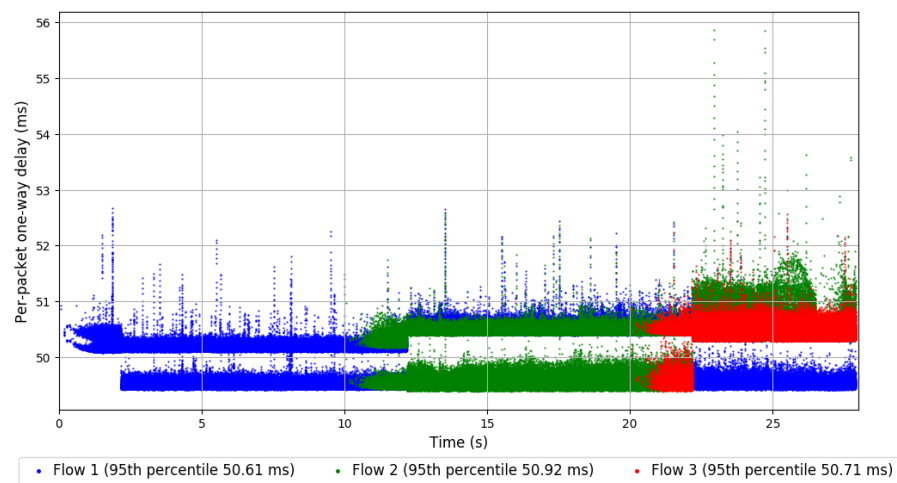
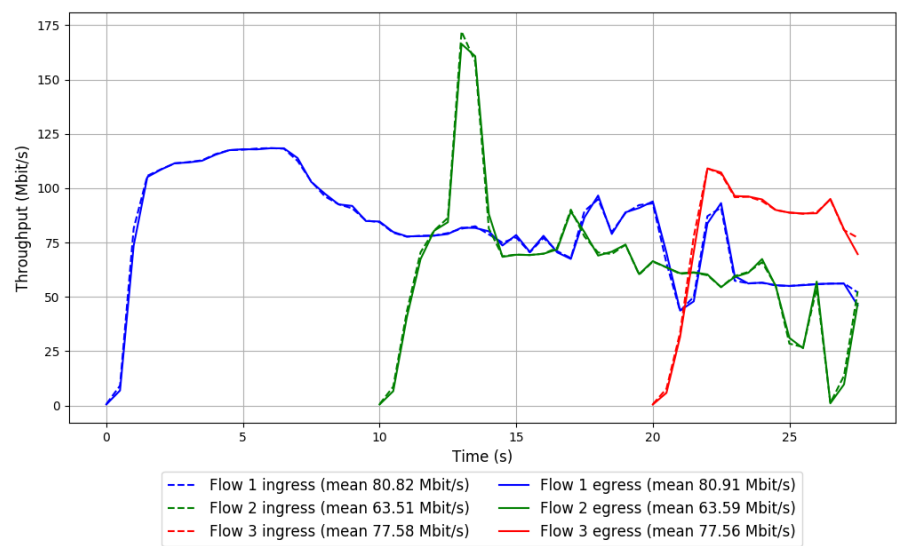
-- Flow 3:

Average throughput: 77.56 Mbit/s

95th percentile per-packet one-way delay: 50.707 ms

Loss rate: 1.32%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-17 01:03:16

End at: 2017-11-17 01:03:46

Below is generated by plot.py at 2017-11-17 04:46:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.08 Mbit/s

95th percentile per-packet one-way delay: 50.730 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 50.706 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 71.91 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.36%

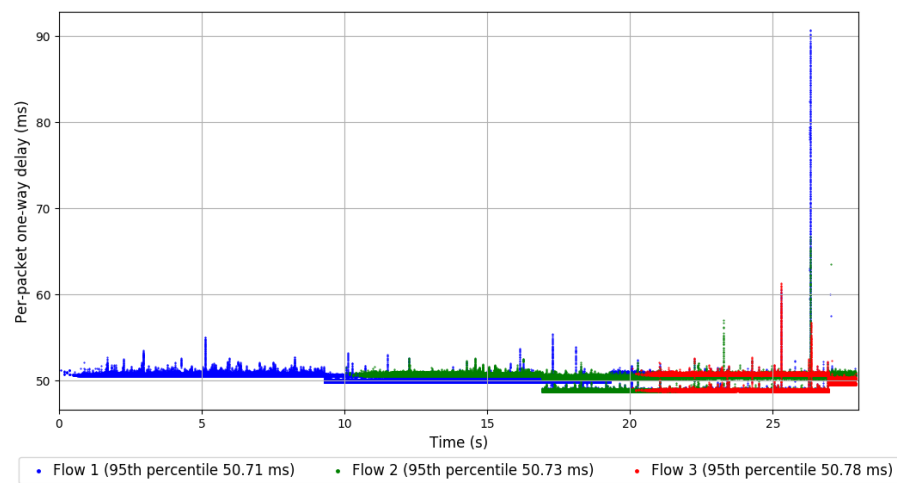
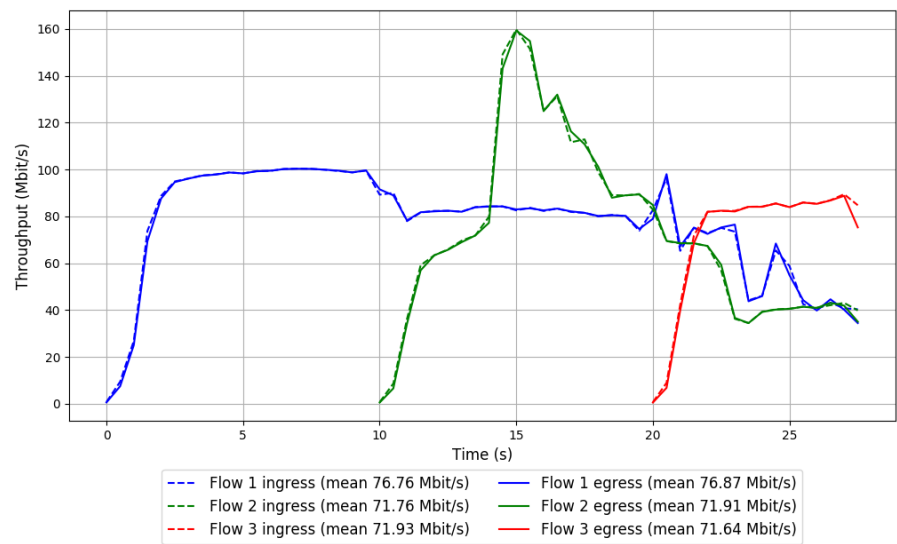
-- Flow 3:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 50.778 ms

Loss rate: 1.64%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-17 01:15:26

End at: 2017-11-17 01:15:56

Below is generated by plot.py at 2017-11-17 04:47:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.29 Mbit/s

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

Loss rate: 0.36%

-- Flow 1:

Average throughput: 72.71 Mbit/s

95th percentile per-packet one-way delay: 50.952 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 80.02 Mbit/s

95th percentile per-packet one-way delay: 50.979 ms

Loss rate: 0.30%

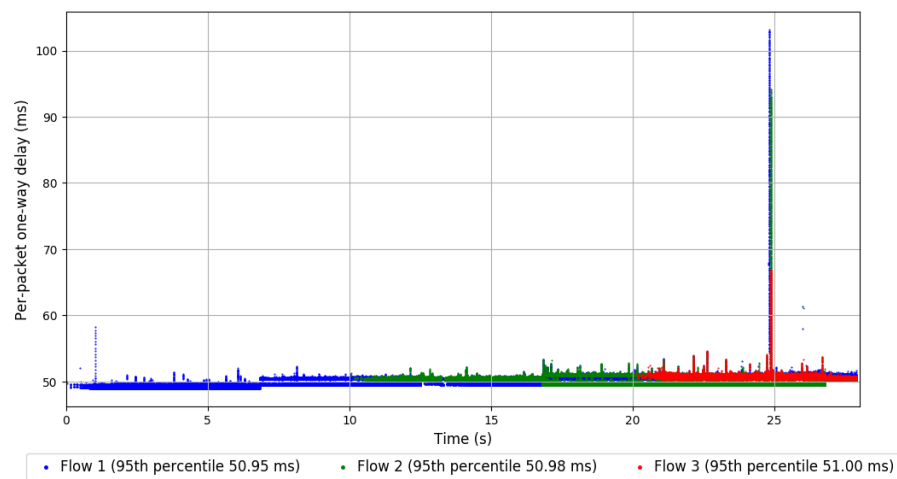
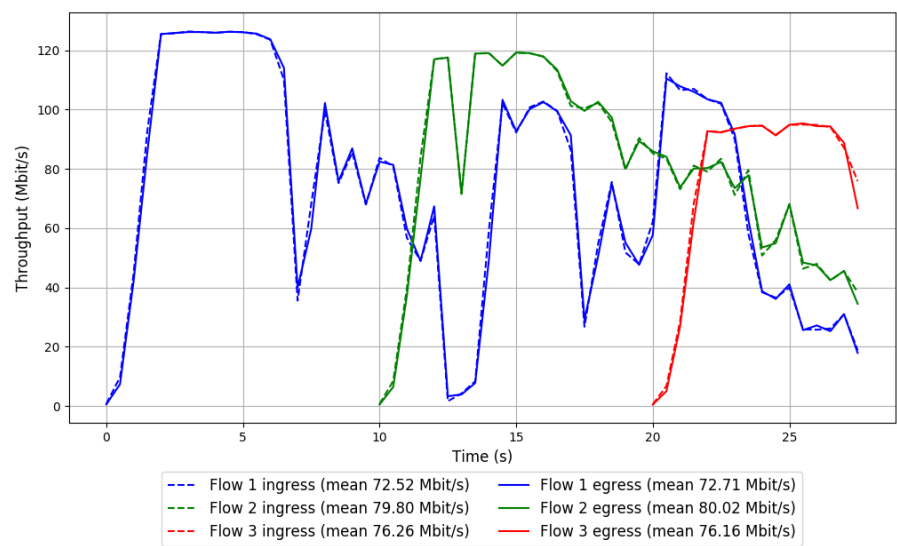
-- Flow 3:

Average throughput: 76.16 Mbit/s

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

Loss rate: 1.42%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-17 01:27:58

End at: 2017-11-17 01:28:28

Below is generated by plot.py at 2017-11-17 04:48:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.21 Mbit/s

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

Loss rate: 0.62%

-- Flow 1:

Average throughput: 78.30 Mbit/s

95th percentile per-packet one-way delay: 50.488 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 0.25%

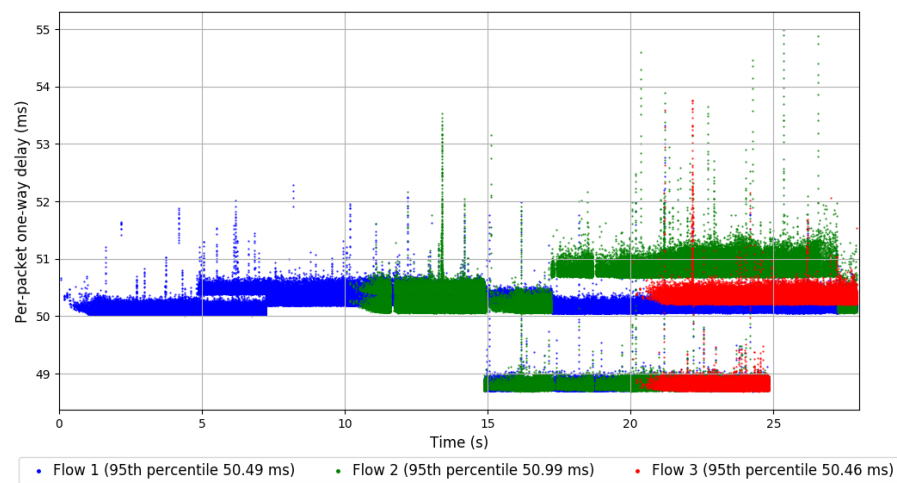
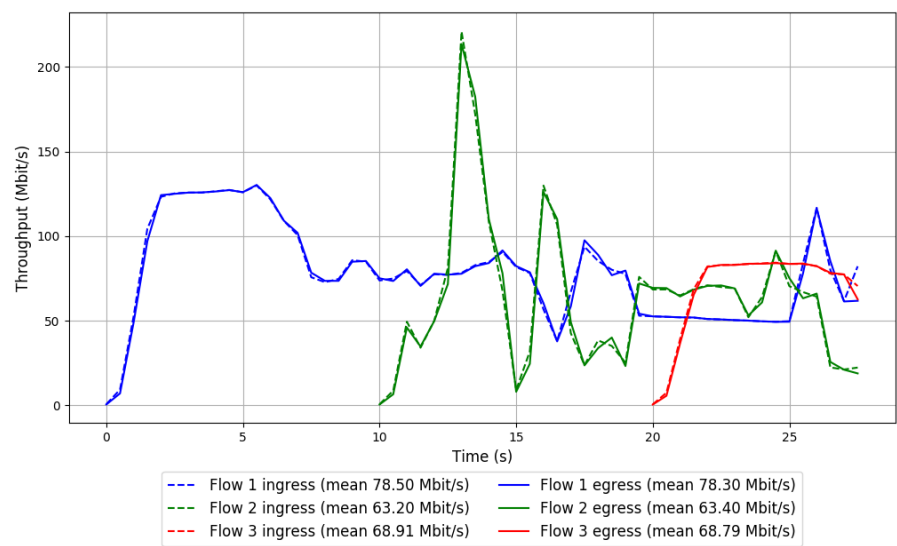
-- Flow 3:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 50.464 ms

Loss rate: 1.43%

Run 10: Report of Copa — Data Link

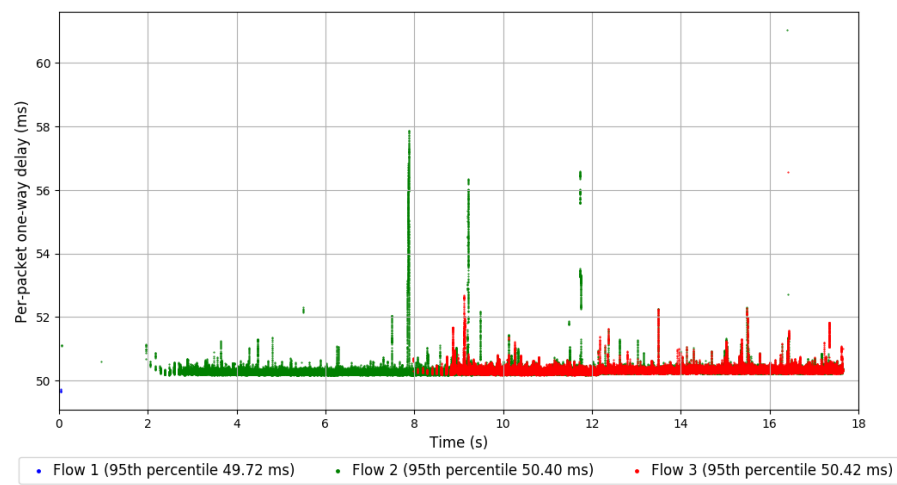
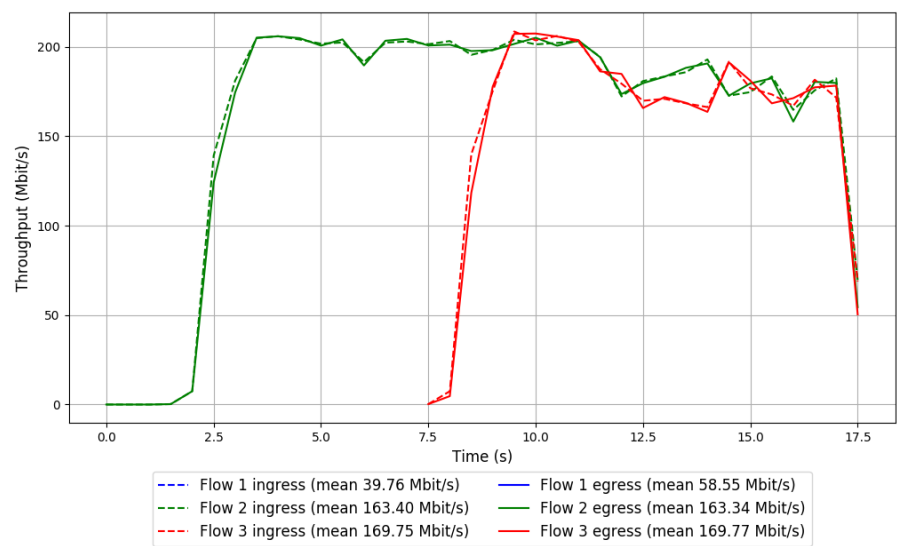


Run 1: Statistics of Indigo

Start at: 2017-11-16 23:40:11

End at: 2017-11-16 23:40:41

Run 1: Report of Indigo — Data Link

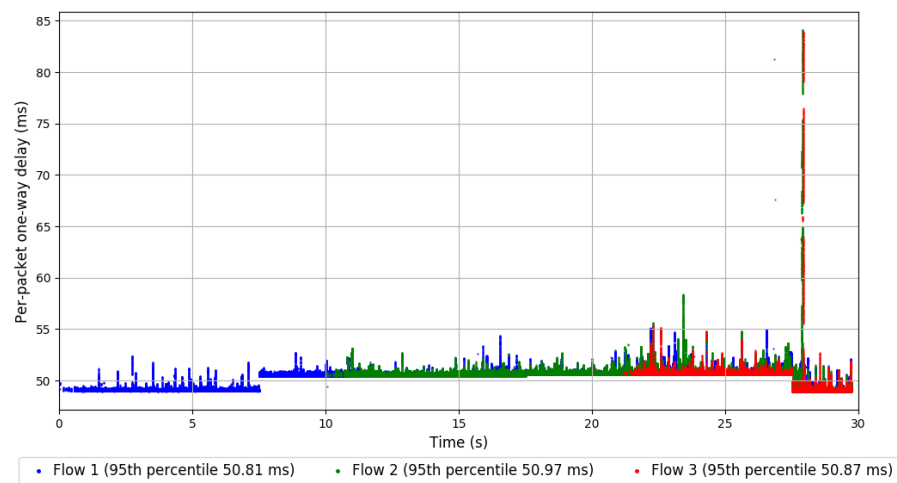
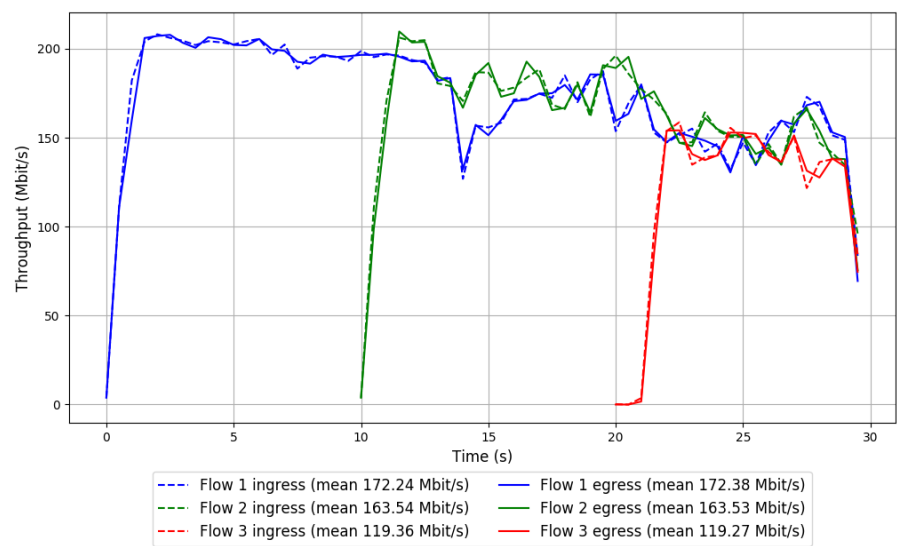


```
Run 2: Statistics of Indigo

Start at: 2017-11-16 23:52:27
End at: 2017-11-16 23:52:57

# Below is generated by plot.py at 2017-11-17 04:51:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.55 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 172.38 Mbit/s
95th percentile per-packet one-way delay: 50.807 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 163.53 Mbit/s
95th percentile per-packet one-way delay: 50.973 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 119.27 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 1.12%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-17 00:04:50

End at: 2017-11-17 00:05:20

Below is generated by plot.py at 2017-11-17 04:52:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.70 Mbit/s

95th percentile per-packet one-way delay: 51.004 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 177.03 Mbit/s

95th percentile per-packet one-way delay: 50.970 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 166.49 Mbit/s

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

Loss rate: 0.44%

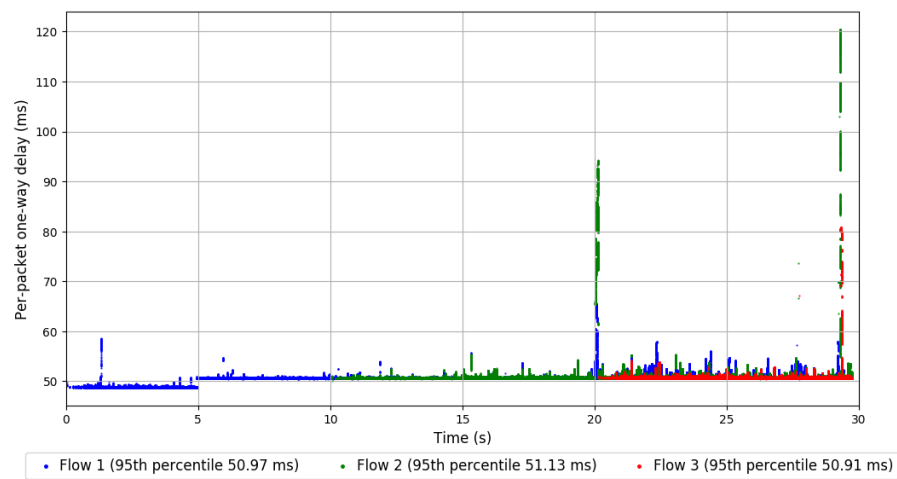
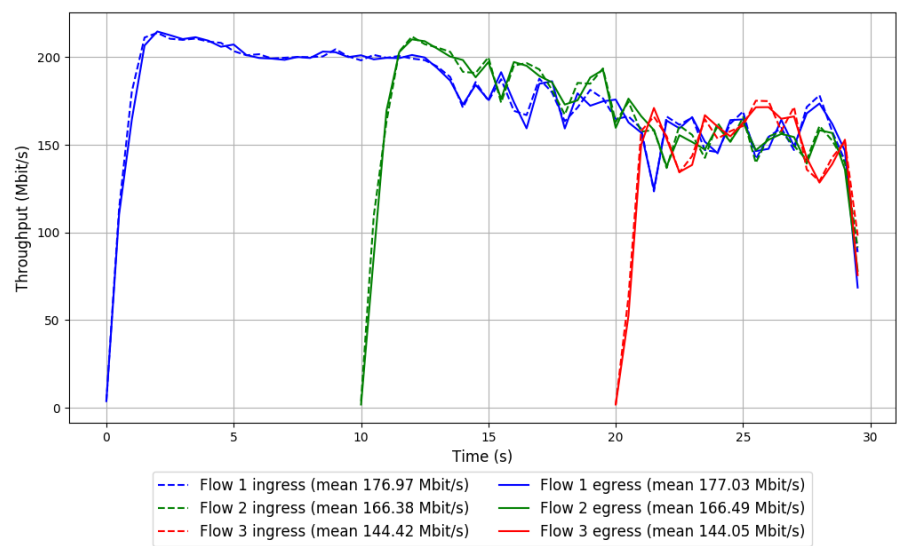
-- Flow 3:

Average throughput: 144.05 Mbit/s

95th percentile per-packet one-way delay: 50.907 ms

Loss rate: 1.32%

Run 3: Report of Indigo — Data Link

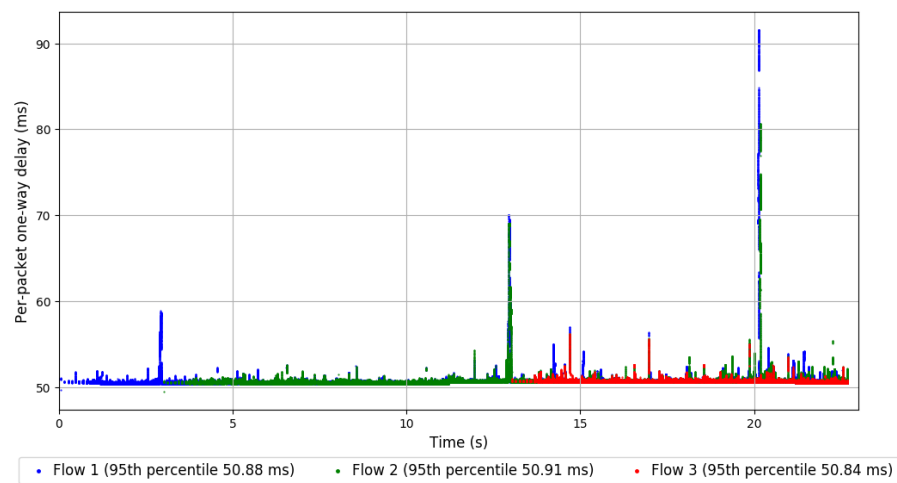
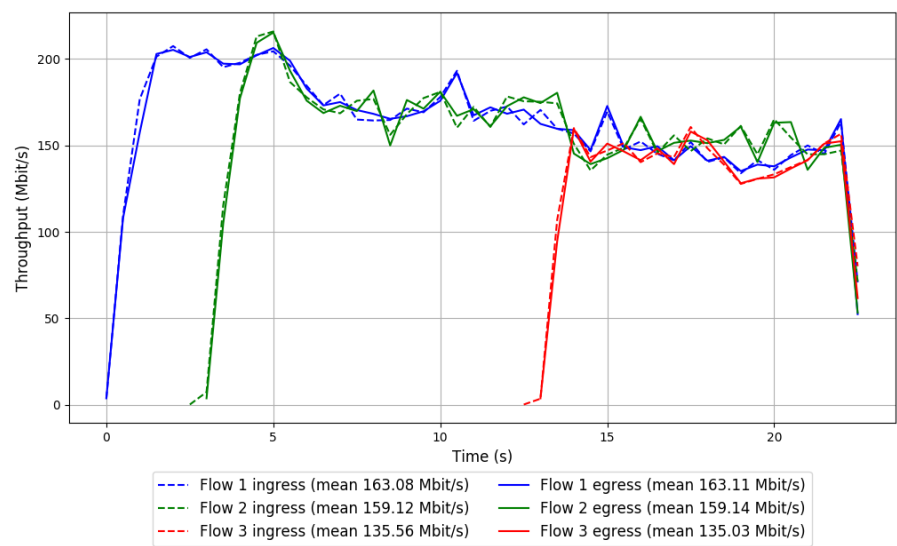


Run 4: Statistics of Indigo

Start at: 2017-11-17 00:17:27

End at: 2017-11-17 00:17:57

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-17 00:29:38

End at: 2017-11-17 00:30:08

Below is generated by plot.py at 2017-11-17 04:52:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.06 Mbit/s

95th percentile per-packet one-way delay: 51.070 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 178.85 Mbit/s

95th percentile per-packet one-way delay: 51.017 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 159.12 Mbit/s

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

Loss rate: 0.41%

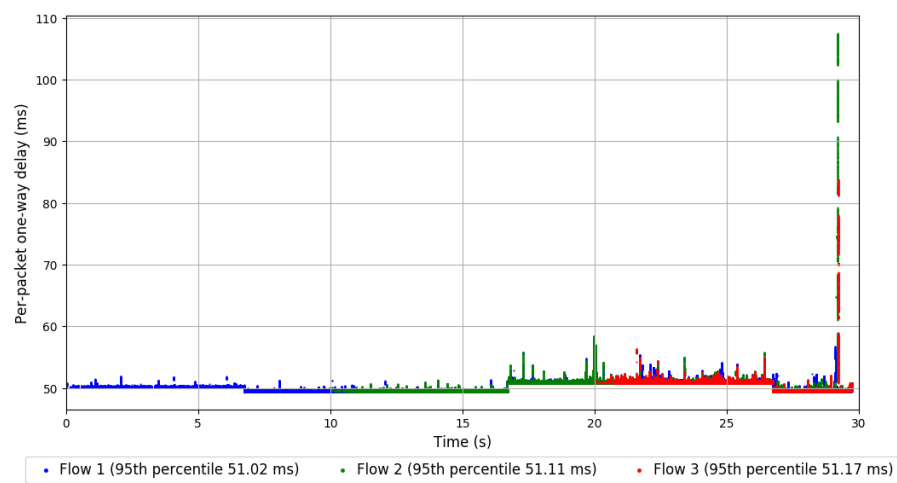
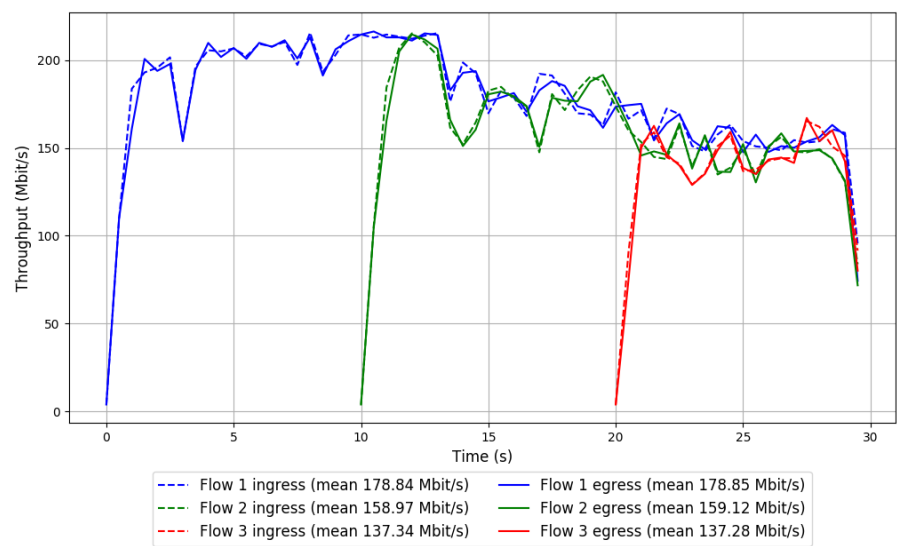
-- Flow 3:

Average throughput: 137.28 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 1.07%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-17 00:42:05

End at: 2017-11-17 00:42:35

Below is generated by plot.py at 2017-11-17 04:52:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.28 Mbit/s

95th percentile per-packet one-way delay: 50.683 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 174.28 Mbit/s

95th percentile per-packet one-way delay: 50.649 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 161.07 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.50%

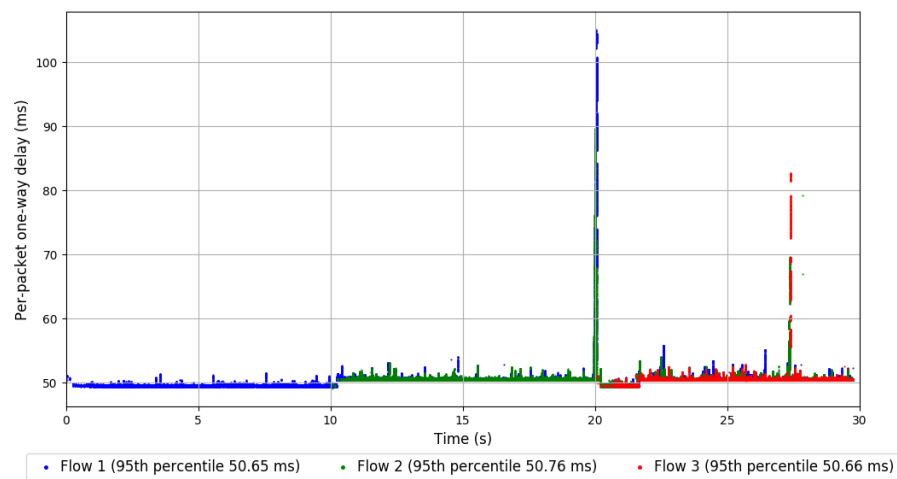
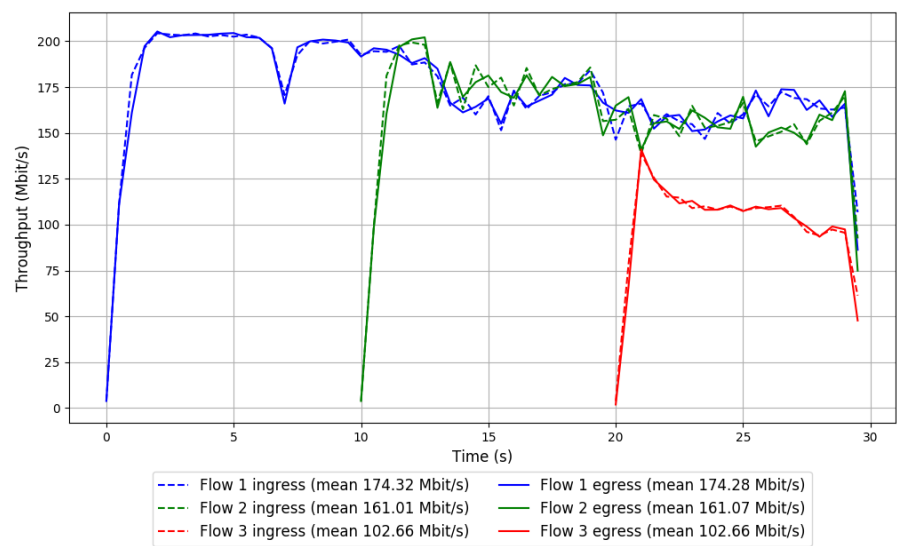
-- Flow 3:

Average throughput: 102.66 Mbit/s

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

Loss rate: 1.06%

Run 6: Report of Indigo — Data Link

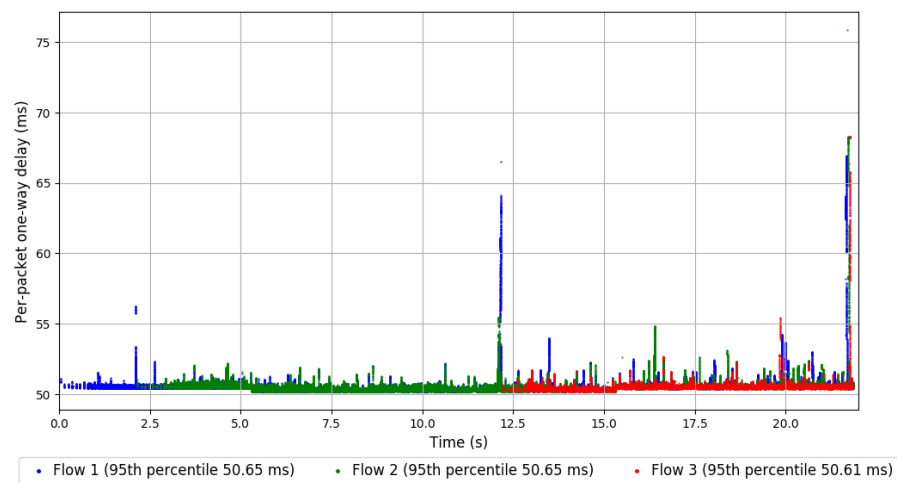
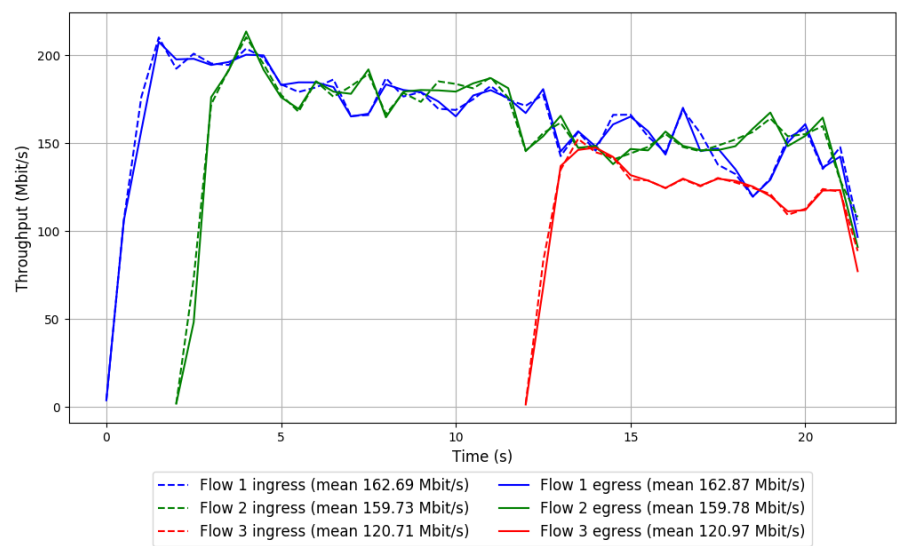


Run 7: Statistics of Indigo

Start at: 2017-11-17 00:54:22

End at: 2017-11-17 00:54:52

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-17 01:06:25

End at: 2017-11-17 01:06:55

Below is generated by plot.py at 2017-11-17 04:53:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.18 Mbit/s

95th percentile per-packet one-way delay: 50.621 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 180.84 Mbit/s

95th percentile per-packet one-way delay: 50.607 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 171.13 Mbit/s

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

Loss rate: 0.40%

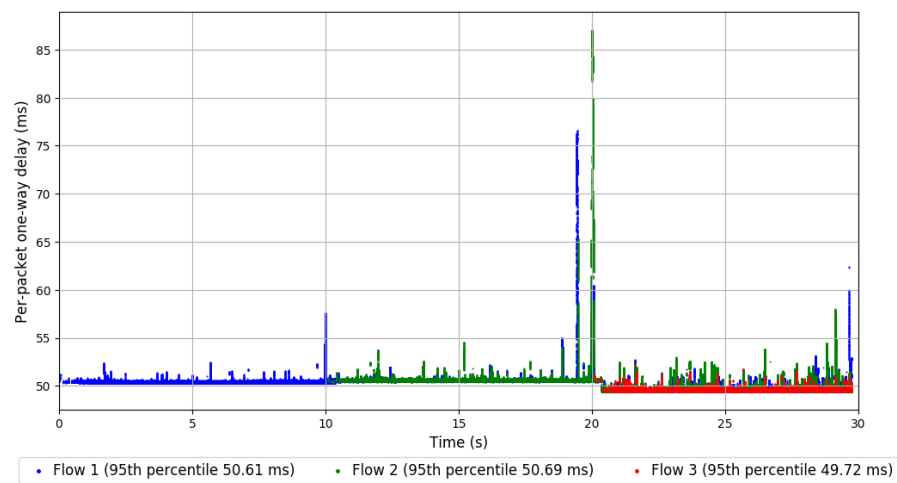
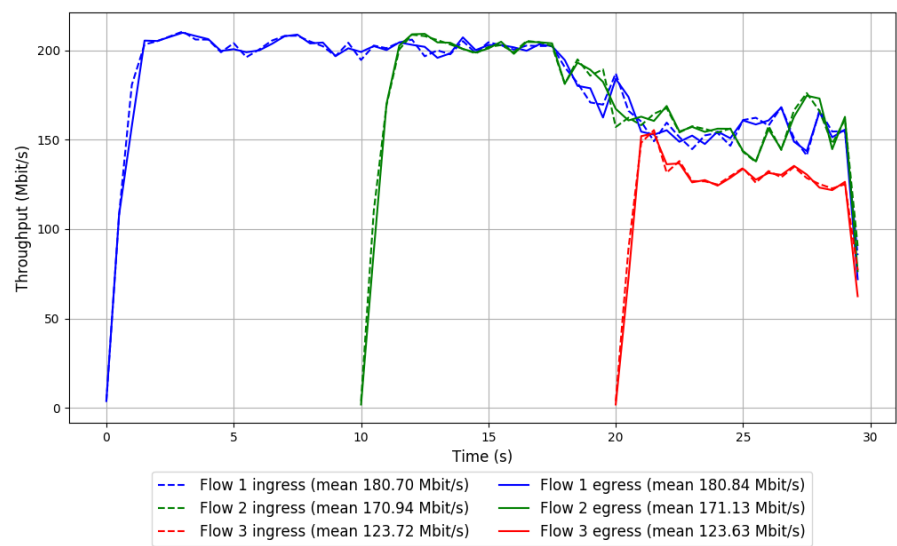
-- Flow 3:

Average throughput: 123.63 Mbit/s

95th percentile per-packet one-way delay: 49.723 ms

Loss rate: 1.12%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-17 01:18:40

End at: 2017-11-17 01:19:10

Below is generated by plot.py at 2017-11-17 04:54:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.78 Mbit/s

95th percentile per-packet one-way delay: 50.444 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 173.07 Mbit/s

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

Loss rate: 0.27%

-- Flow 2:

Average throughput: 164.31 Mbit/s

95th percentile per-packet one-way delay: 50.277 ms

Loss rate: 0.53%

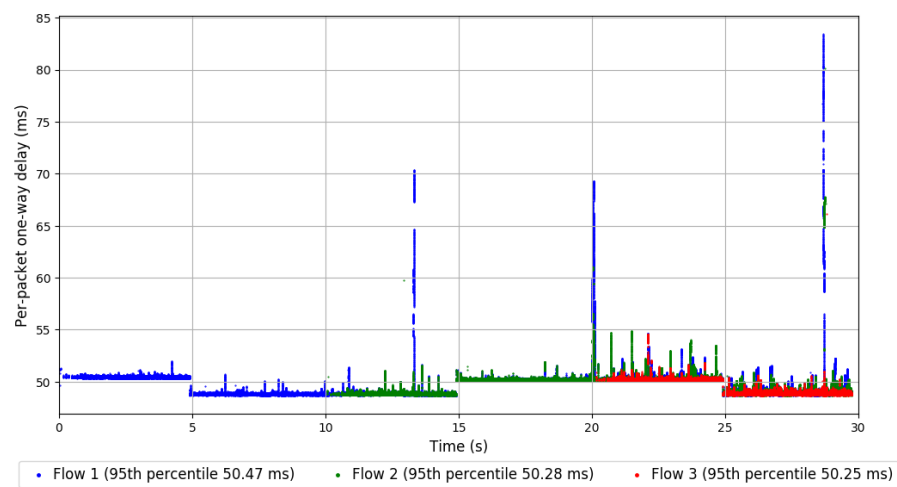
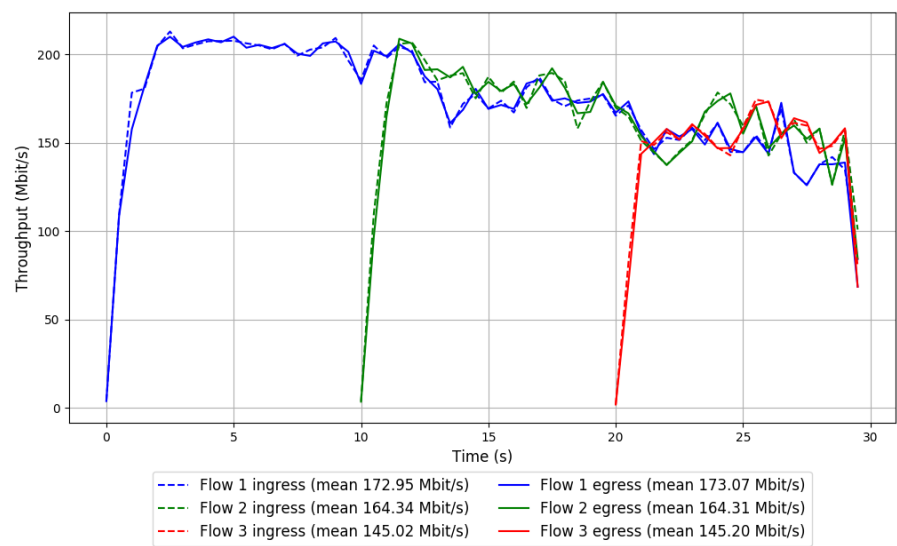
-- Flow 3:

Average throughput: 145.20 Mbit/s

95th percentile per-packet one-way delay: 50.252 ms

Loss rate: 0.92%

Run 9: Report of Indigo — Data Link

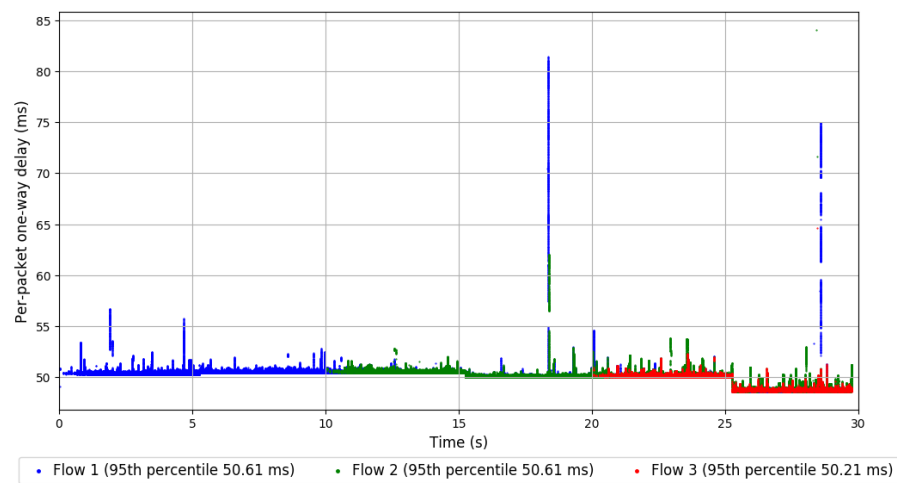
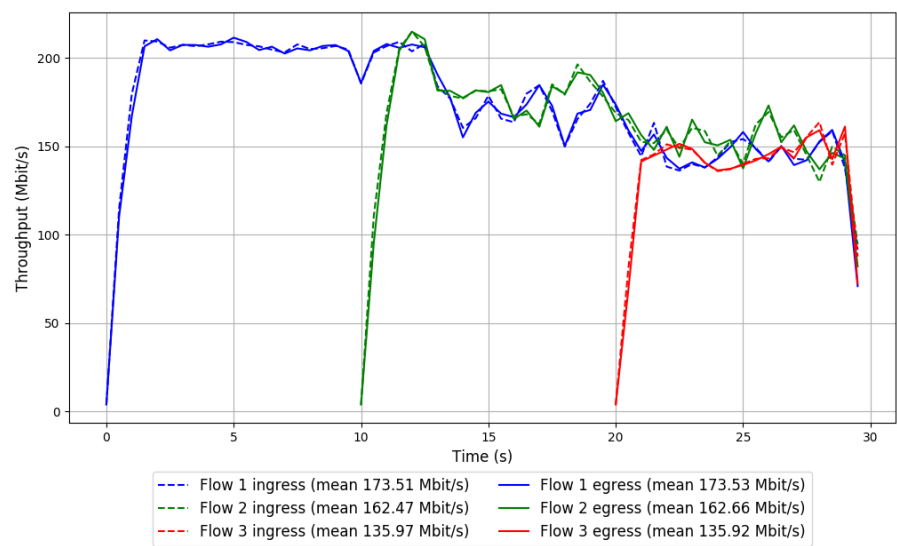


```
Run 10: Statistics of Indigo

Start at: 2017-11-17 01:31:10
End at: 2017-11-17 01:31:40

# Below is generated by plot.py at 2017-11-17 04:56:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.59 Mbit/s
95th percentile per-packet one-way delay: 50.599 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 173.53 Mbit/s
95th percentile per-packet one-way delay: 50.607 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 162.66 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 135.92 Mbit/s
95th percentile per-packet one-way delay: 50.208 ms
Loss rate: 1.07%
```

Run 10: Report of Indigo — Data Link

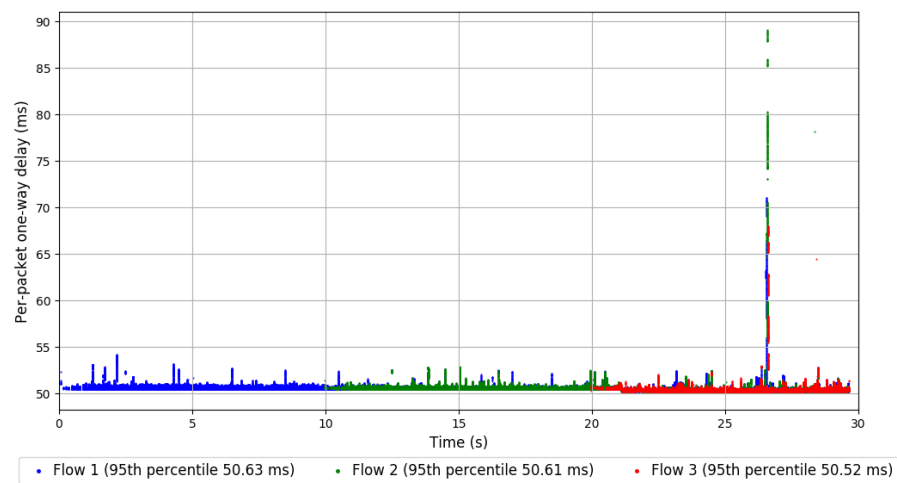
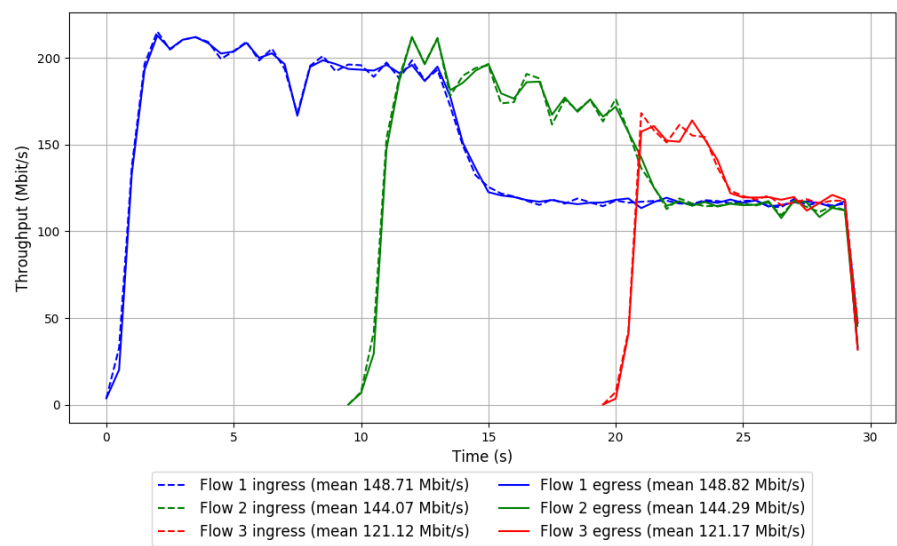


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 23:42:04
End at: 2017-11-16 23:42:34

# Below is generated by plot.py at 2017-11-17 04:56:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.33 Mbit/s
95th percentile per-packet one-way delay: 50.617 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 148.82 Mbit/s
95th percentile per-packet one-way delay: 50.631 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 144.29 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 121.17 Mbit/s
95th percentile per-packet one-way delay: 50.518 ms
Loss rate: 1.02%
```

Run 1: Report of Indigo-calib — Data Link

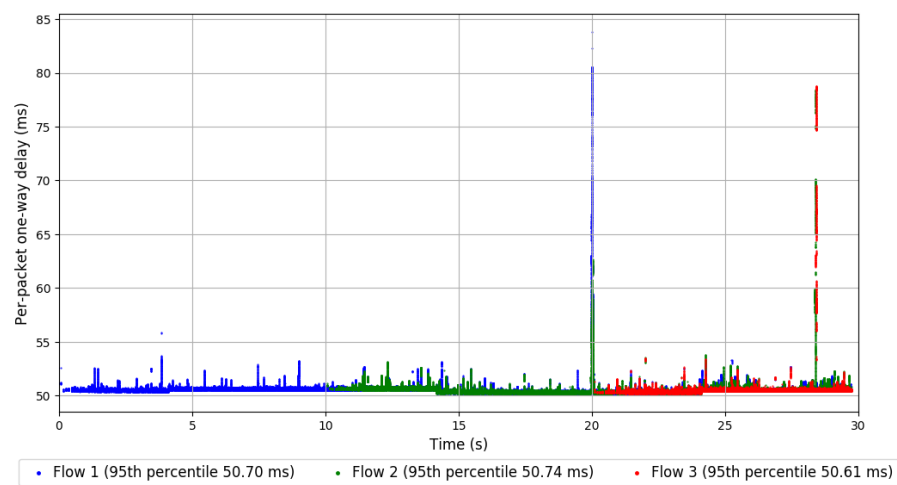
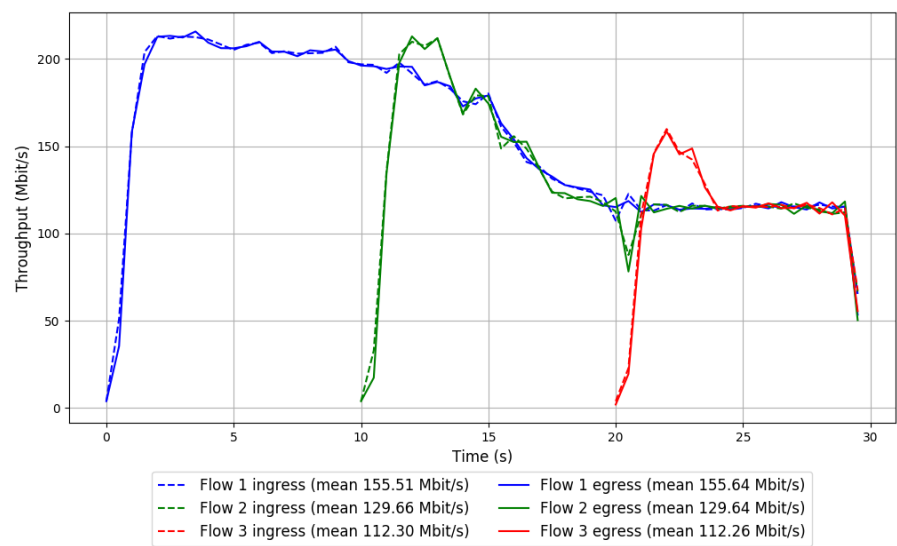


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 23:54:21
End at: 2017-11-16 23:54:51

# Below is generated by plot.py at 2017-11-17 04:56:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.05 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 155.64 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 129.64 Mbit/s
95th percentile per-packet one-way delay: 50.741 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 112.26 Mbit/s
95th percentile per-packet one-way delay: 50.610 ms
Loss rate: 1.08%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-17 00:06:56

End at: 2017-11-17 00:07:26

Below is generated by plot.py at 2017-11-17 04:57:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.53 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 152.01 Mbit/s

95th percentile per-packet one-way delay: 50.660 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 128.95 Mbit/s

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

Loss rate: 0.45%

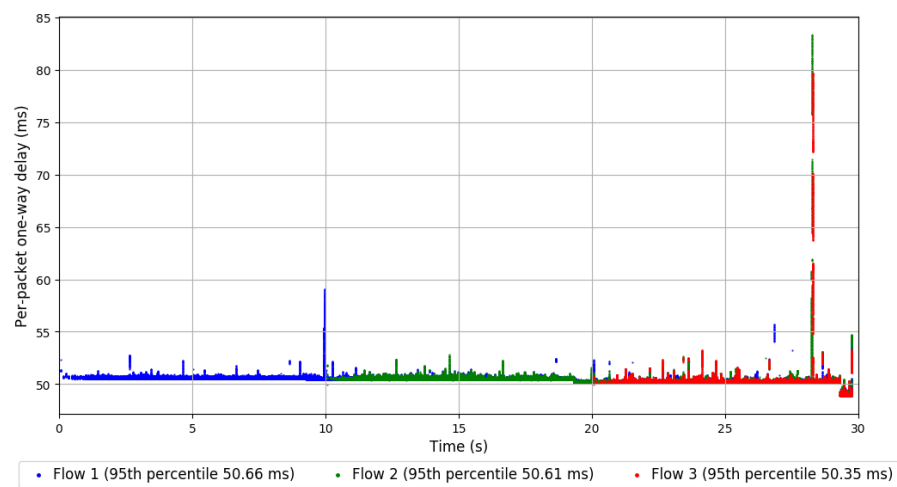
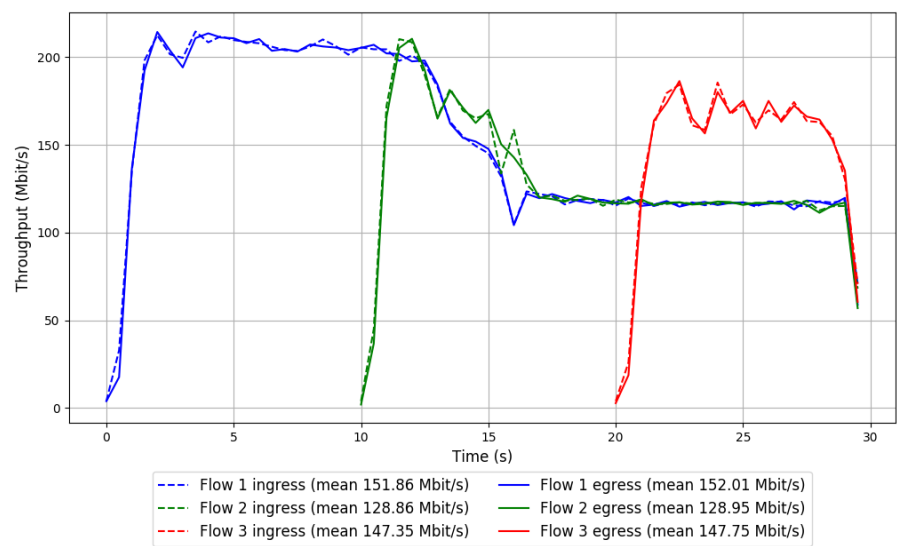
-- Flow 3:

Average throughput: 147.75 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.78%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-17 00:19:09

End at: 2017-11-17 00:19:39

Below is generated by plot.py at 2017-11-17 04:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.33 Mbit/s

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

Loss rate: 0.42%

-- Flow 1:

Average throughput: 158.68 Mbit/s

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

Loss rate: 0.19%

-- Flow 2:

Average throughput: 142.30 Mbit/s

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

Loss rate: 0.41%

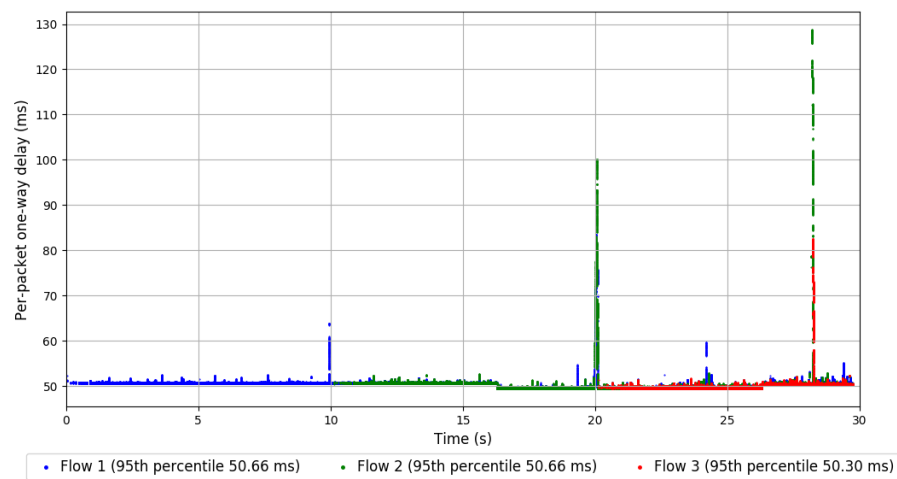
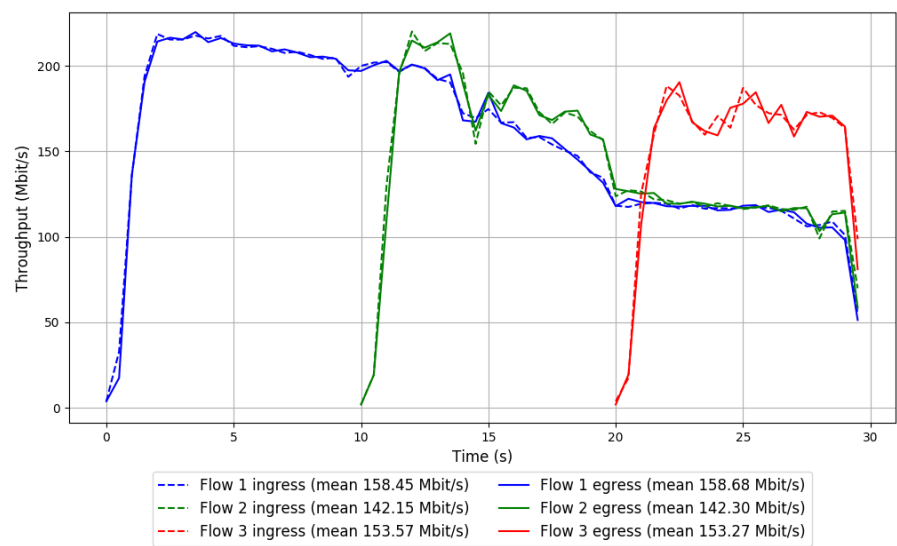
-- Flow 3:

Average throughput: 153.27 Mbit/s

95th percentile per-packet one-way delay: 50.299 ms

Loss rate: 1.19%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-17 00:31:43

End at: 2017-11-17 00:32:13

Below is generated by plot.py at 2017-11-17 04:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.99 Mbit/s

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

Loss rate: 0.40%

-- Flow 1:

Average throughput: 150.79 Mbit/s

95th percentile per-packet one-way delay: 50.970 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 141.84 Mbit/s

95th percentile per-packet one-way delay: 51.050 ms

Loss rate: 0.41%

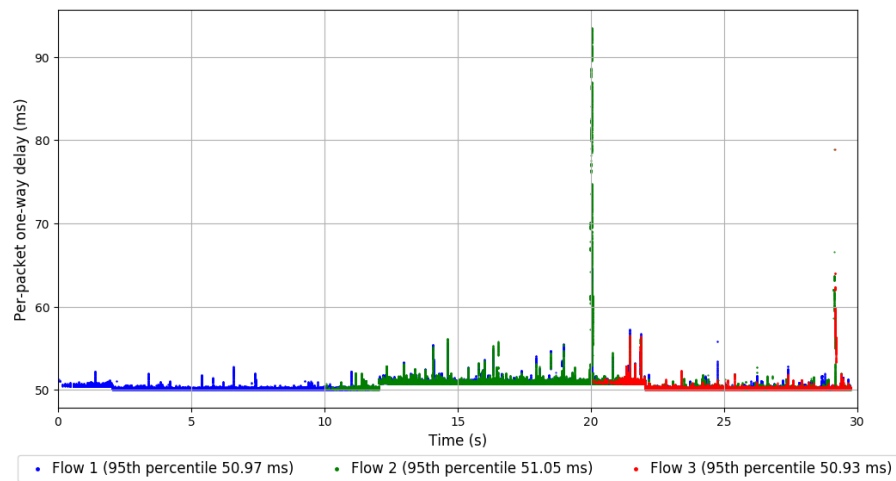
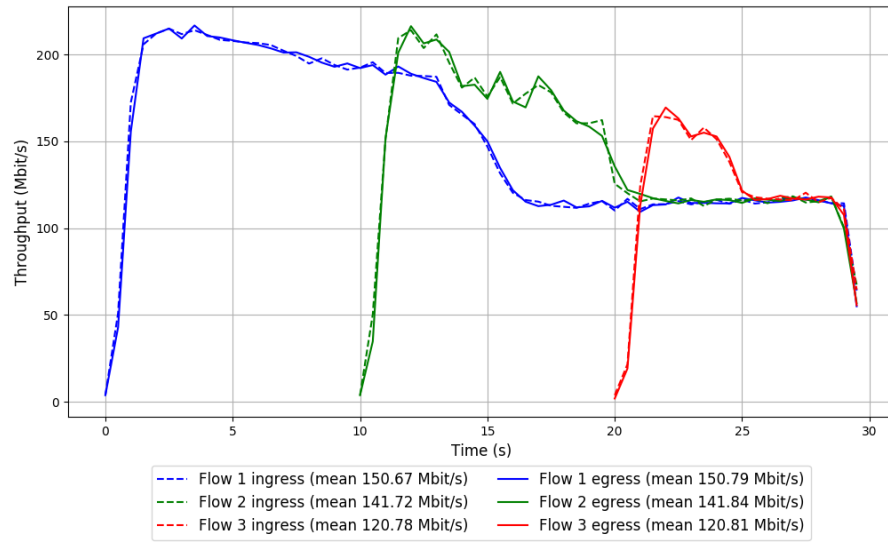
-- Flow 3:

Average throughput: 120.81 Mbit/s

95th percentile per-packet one-way delay: 50.931 ms

Loss rate: 0.98%

Run 5: Report of Indigo-calib — Data Link

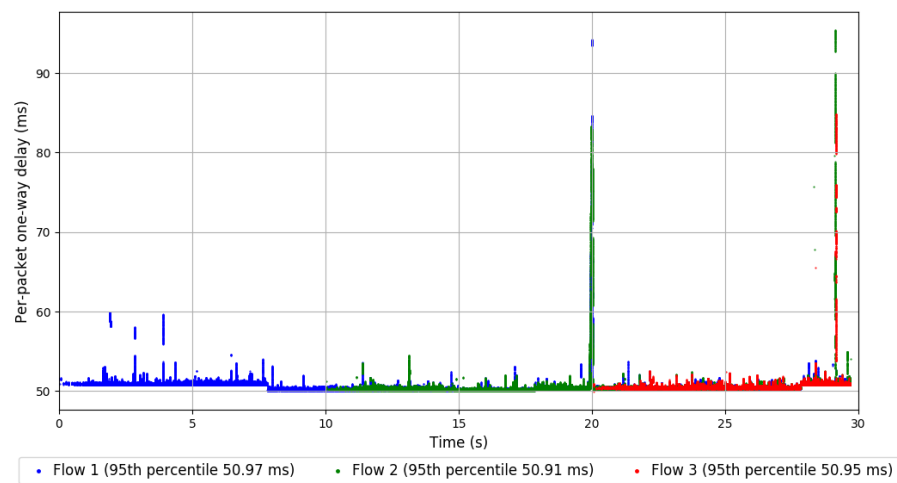
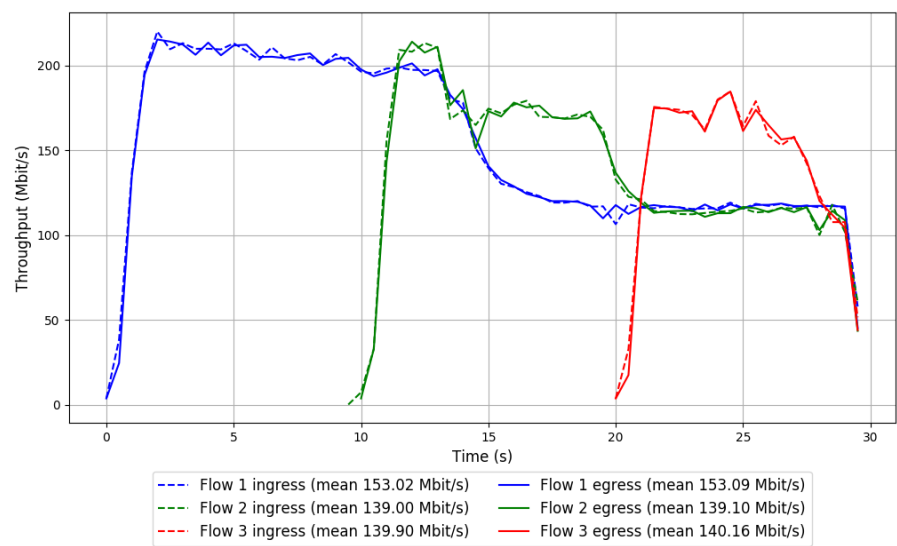


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-17 00:43:57
End at: 2017-11-17 00:44:27

# Below is generated by plot.py at 2017-11-17 04:58:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.97 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 153.09 Mbit/s
95th percentile per-packet one-way delay: 50.970 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 139.10 Mbit/s
95th percentile per-packet one-way delay: 50.914 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 140.16 Mbit/s
95th percentile per-packet one-way delay: 50.953 ms
Loss rate: 0.84%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-17 00:56:03

End at: 2017-11-17 00:56:33

Below is generated by plot.py at 2017-11-17 04:58:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.49 Mbit/s

95th percentile per-packet one-way delay: 50.828 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 50.701 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 161.14 Mbit/s

95th percentile per-packet one-way delay: 50.941 ms

Loss rate: 0.38%

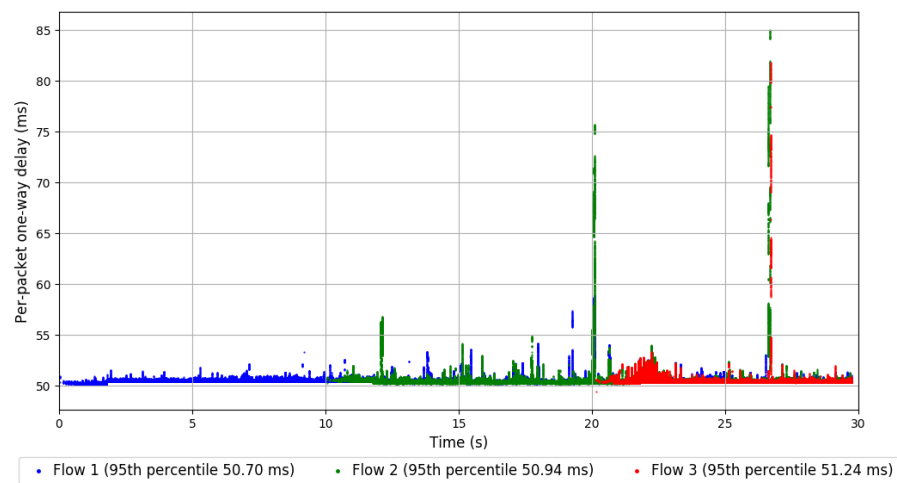
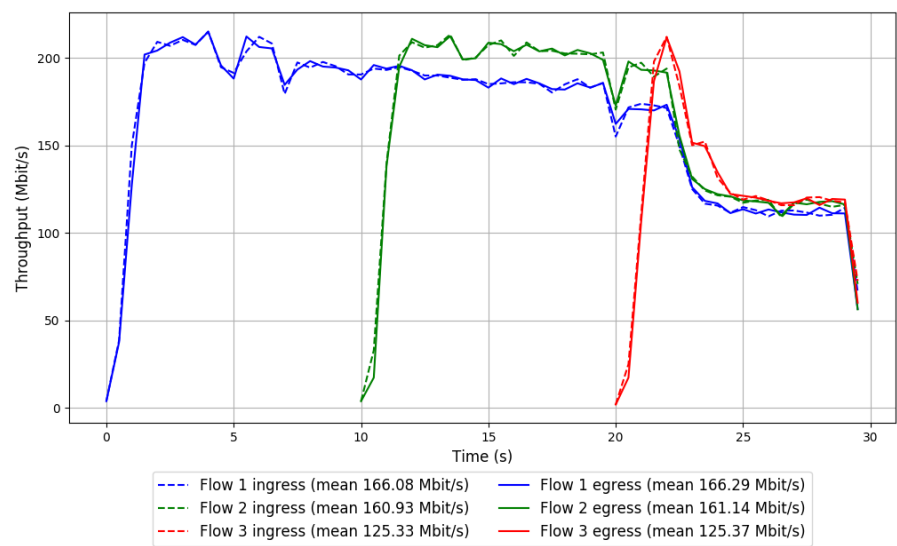
-- Flow 3:

Average throughput: 125.37 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 1.01%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-17 01:08:11

End at: 2017-11-17 01:08:41

Below is generated by plot.py at 2017-11-17 04:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.21 Mbit/s

95th percentile per-packet one-way delay: 50.563 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 157.79 Mbit/s

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

Loss rate: 0.25%

-- Flow 2:

Average throughput: 150.98 Mbit/s

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

Loss rate: 0.40%

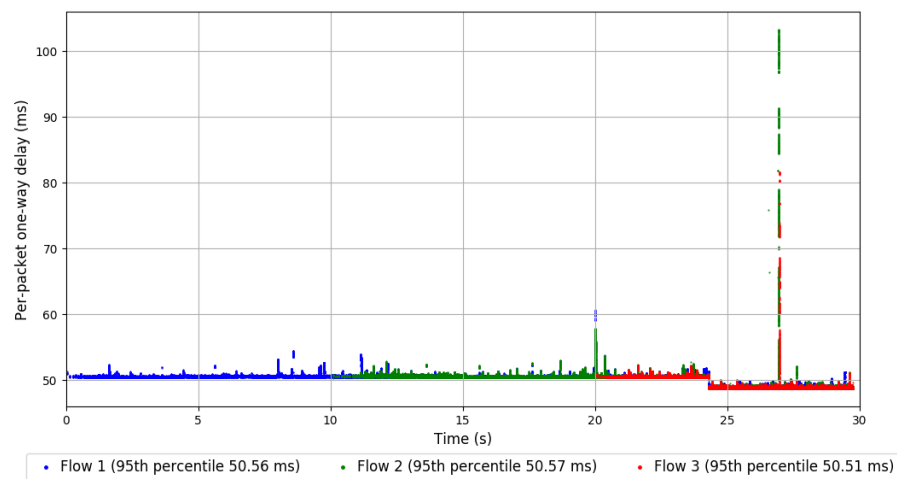
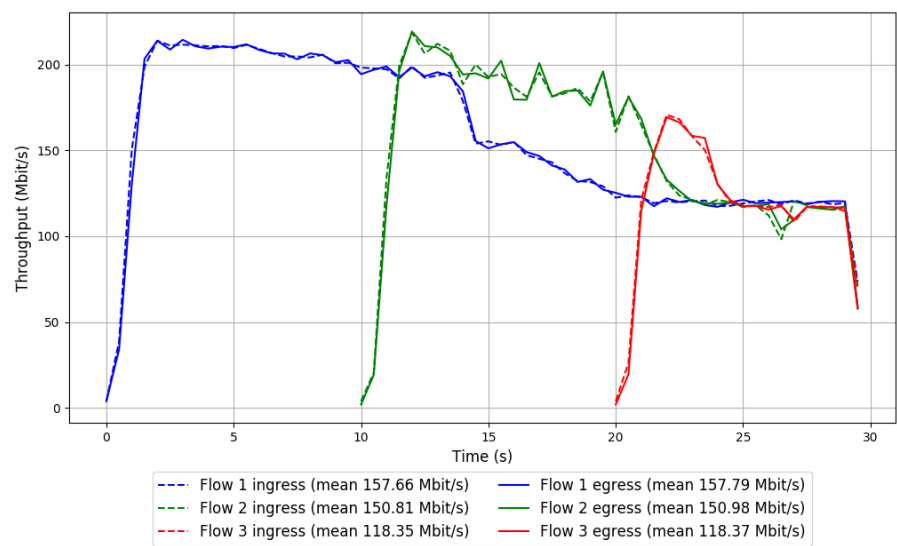
-- Flow 3:

Average throughput: 118.37 Mbit/s

95th percentile per-packet one-way delay: 50.507 ms

Loss rate: 1.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-17 01:20:45

End at: 2017-11-17 01:21:16

Below is generated by plot.py at 2017-11-17 04:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.34 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 153.84 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 144.28 Mbit/s

95th percentile per-packet one-way delay: 50.319 ms

Loss rate: 0.40%

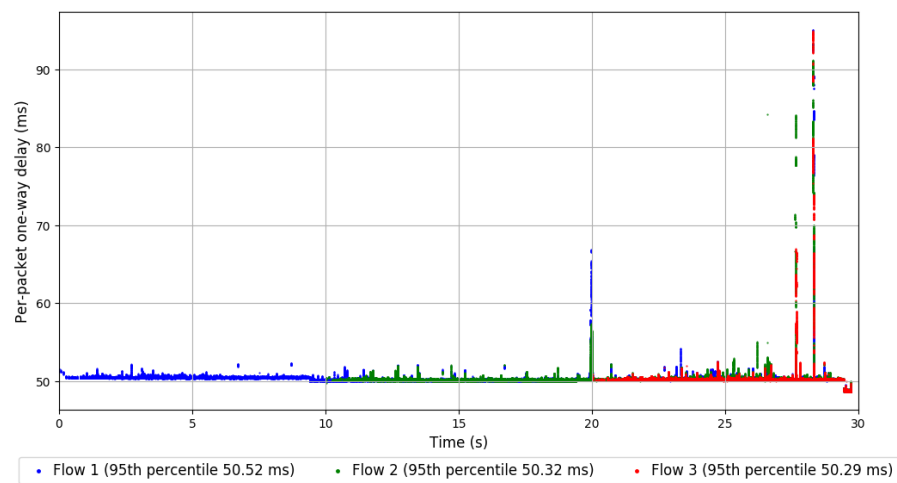
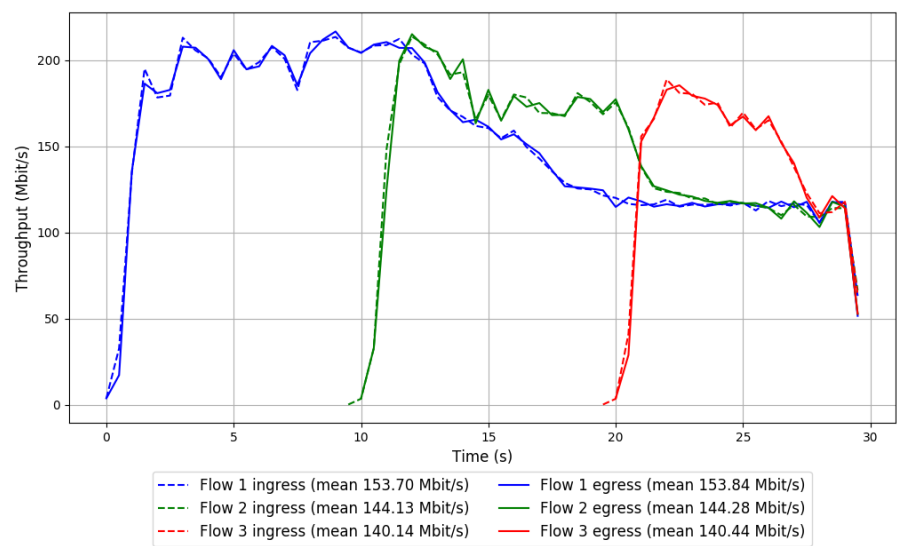
-- Flow 3:

Average throughput: 140.44 Mbit/s

95th percentile per-packet one-way delay: 50.288 ms

Loss rate: 0.85%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-17 01:33:03

End at: 2017-11-17 01:33:33

Below is generated by plot.py at 2017-11-17 04:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.65 Mbit/s

95th percentile per-packet one-way delay: 50.331 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 165.76 Mbit/s

95th percentile per-packet one-way delay: 50.356 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 138.24 Mbit/s

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

Loss rate: 0.43%

-- Flow 3:

Average throughput: 148.51 Mbit/s

95th percentile per-packet one-way delay: 50.263 ms

Loss rate: 0.85%

Run 10: Report of Indigo-calib — Data Link

