

Pantheon Report

Generated at 2017-10-12 22:43:22 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

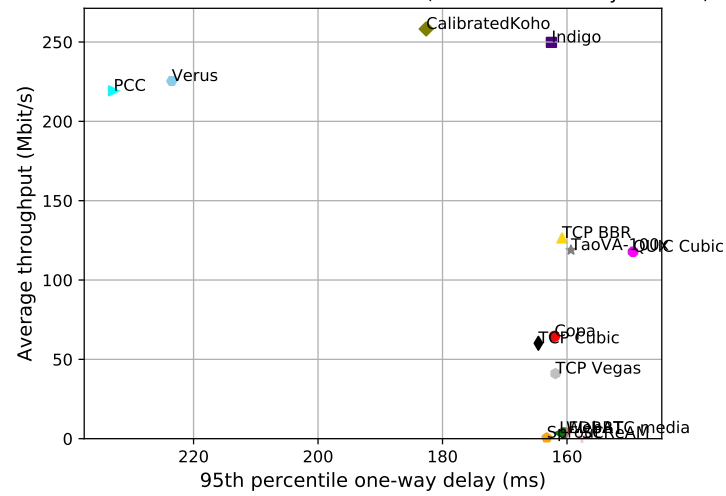
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

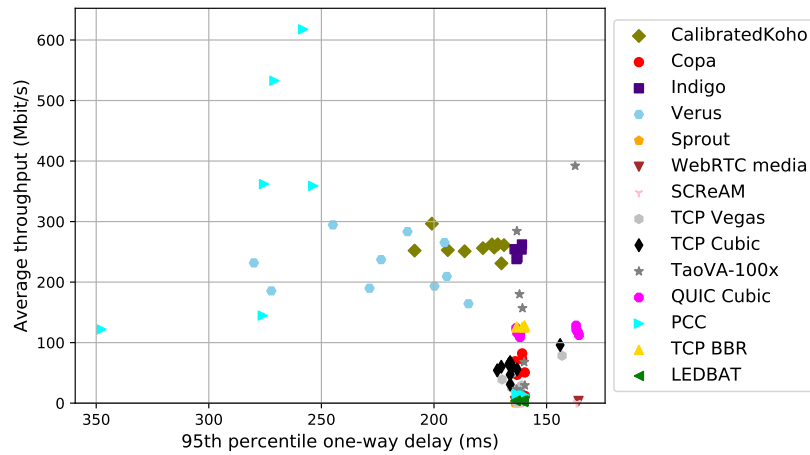
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
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 @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	8	66.07	63.29	56.99	160.81	160.81	160.84	1.14	1.75	3.91
TCP Cubic	10	36.94	26.22	18.09	162.95	163.39	162.48	1.48	3.86	6.97
LEDBAT	10	2.12	1.65	0.98	161.28	161.18	161.04	1.78	2.88	6.19
PCC	10	96.47	134.09	105.96	195.20	201.88	221.89	2.38	3.22	5.36
QUIC Cubic	10	64.00	59.89	43.83	146.57	141.02	138.31	1.07	0.87	3.93
SCReAM	10	0.21	0.21	0.21	149.09	146.52	149.06	0.88	1.43	2.76
WebRTC media	10	1.99	1.21	0.39	151.58	151.88	159.28	1.05	1.88	5.76
Sprout	9	0.24	0.34	0.37	161.41	158.79	162.39	0.81	1.02	2.35
TaoVA-100x	10	53.24	72.12	76.91	159.13	159.07	159.91	0.81	1.30	4.37
TCP Vegas	7	18.81	17.84	32.12	159.93	160.88	160.73	1.01	1.61	3.35
Verus	10	144.86	89.01	69.79	211.73	207.74	240.95	0.97	0.91	8.79
Copa	10	41.41	29.01	16.95	162.44	161.50	161.16	0.80	1.70	7.77
CalibratedKoho	10	197.15	89.30	5.92	183.44	181.70	166.35	1.66	5.31	8.85
Indigo	5	128.28	124.14	98.30	161.76	162.26	169.27	1.23	1.69	4.37

Run 1: Statistics of TCP BBR

Start at: 2017-10-12 17:33:26

End at: 2017-10-12 17:33:56

Below is generated by plot.py at 2017-10-12 22:11:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.02 Mbit/s

95th percentile per-packet one-way delay: 163.306 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 65.20 Mbit/s

95th percentile per-packet one-way delay: 163.293 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 62.37 Mbit/s

95th percentile per-packet one-way delay: 163.310 ms

Loss rate: 1.70%

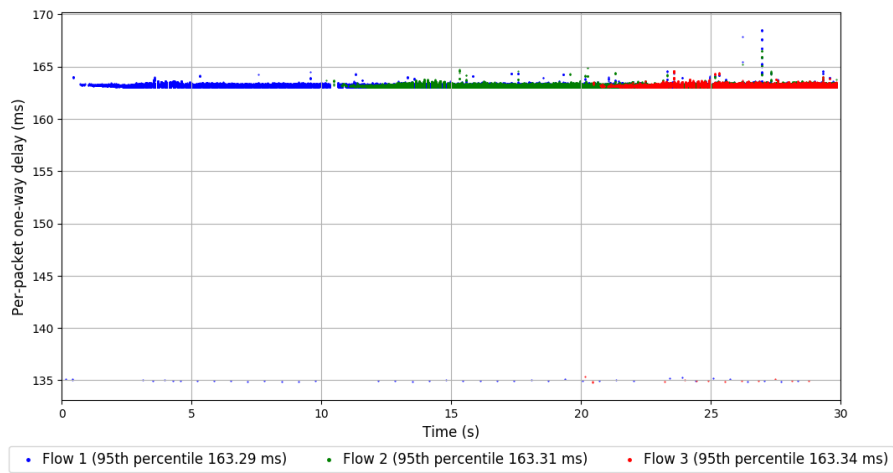
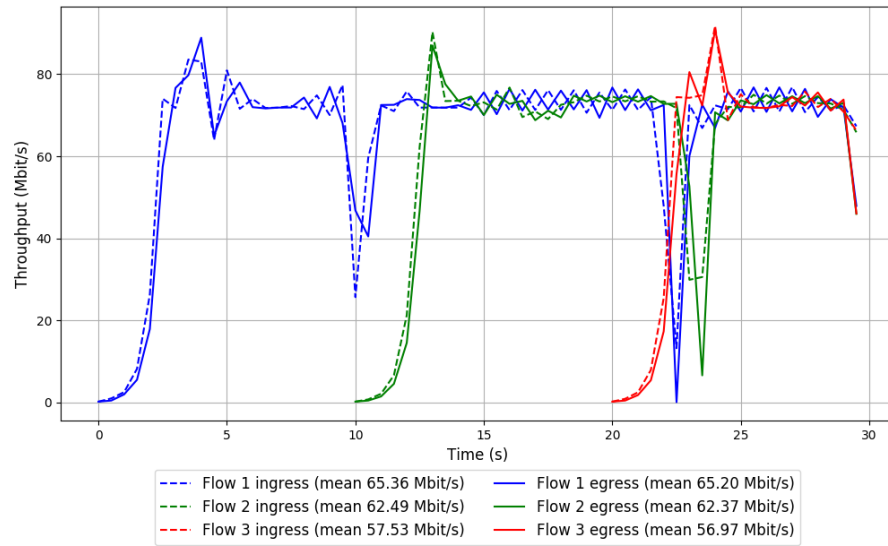
-- Flow 3:

Average throughput: 56.97 Mbit/s

95th percentile per-packet one-way delay: 163.341 ms

Loss rate: 3.69%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-12 17:47:37

End at: 2017-10-12 17:48:07

Below is generated by plot.py at 2017-10-12 22:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.56 Mbit/s

95th percentile per-packet one-way delay: 163.323 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 66.12 Mbit/s

95th percentile per-packet one-way delay: 163.320 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 163.322 ms

Loss rate: 1.89%

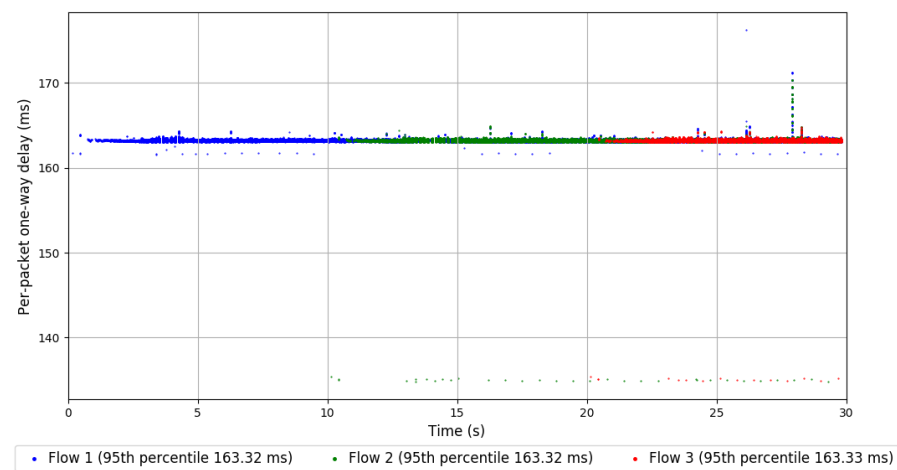
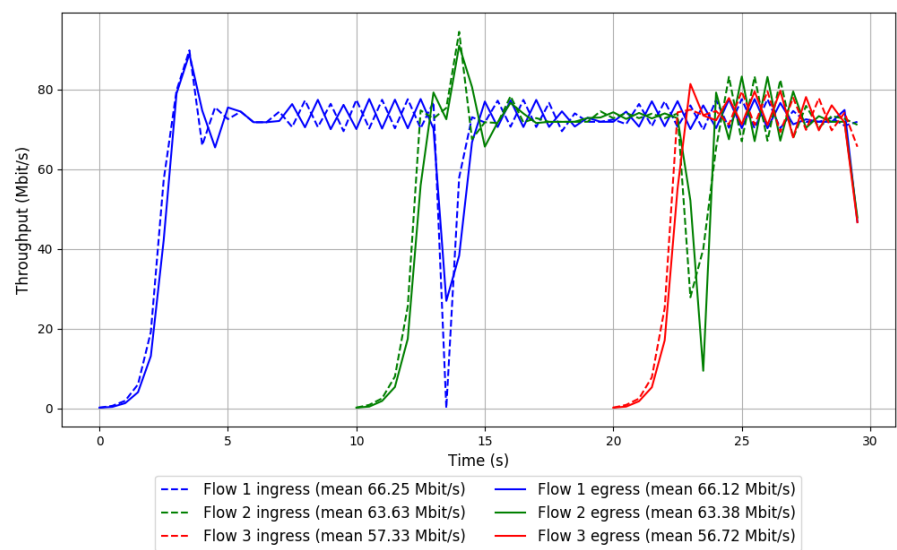
-- Flow 3:

Average throughput: 56.72 Mbit/s

95th percentile per-packet one-way delay: 163.334 ms

Loss rate: 3.78%

Run 2: Report of TCP BBR — Data Link

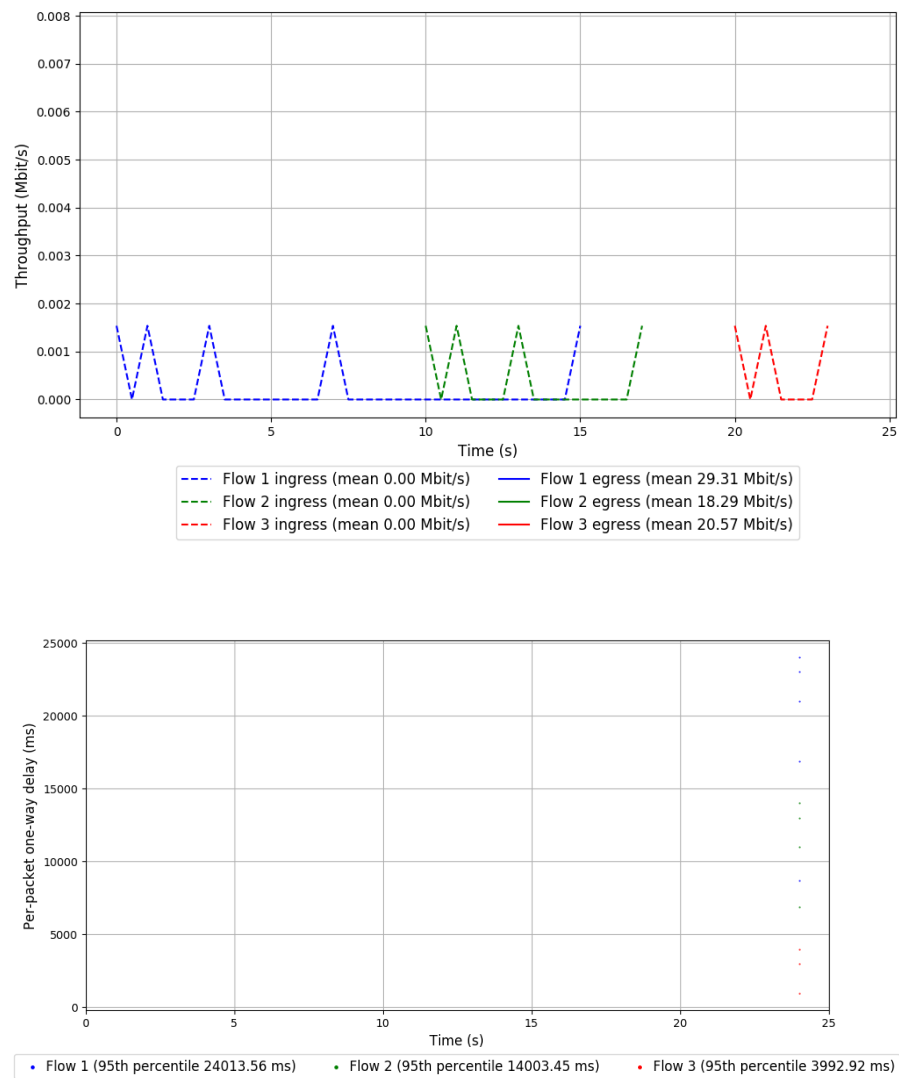


Run 3: Statistics of TCP BBR

Start at: 2017-10-12 18:01:14

End at: 2017-10-12 18:01:44

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-12 18:14:34

End at: 2017-10-12 18:15:04

Below is generated by plot.py at 2017-10-12 22:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.99 Mbit/s

95th percentile per-packet one-way delay: 160.783 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 65.70 Mbit/s

95th percentile per-packet one-way delay: 160.778 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 160.780 ms

Loss rate: 1.74%

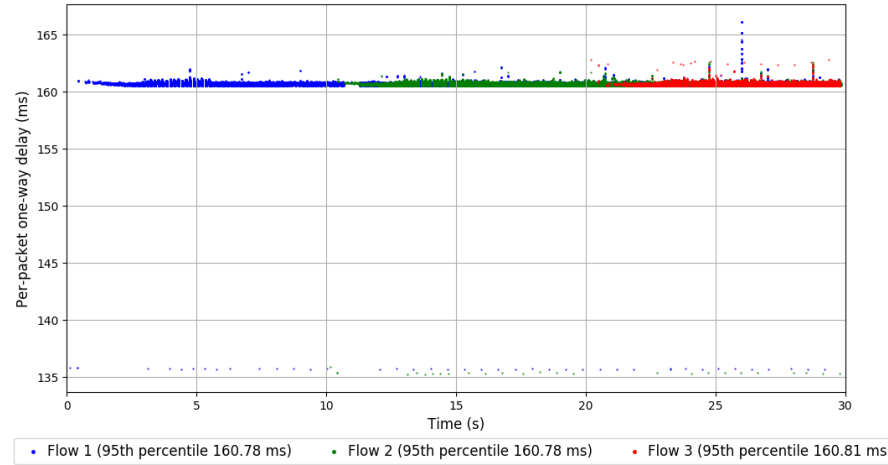
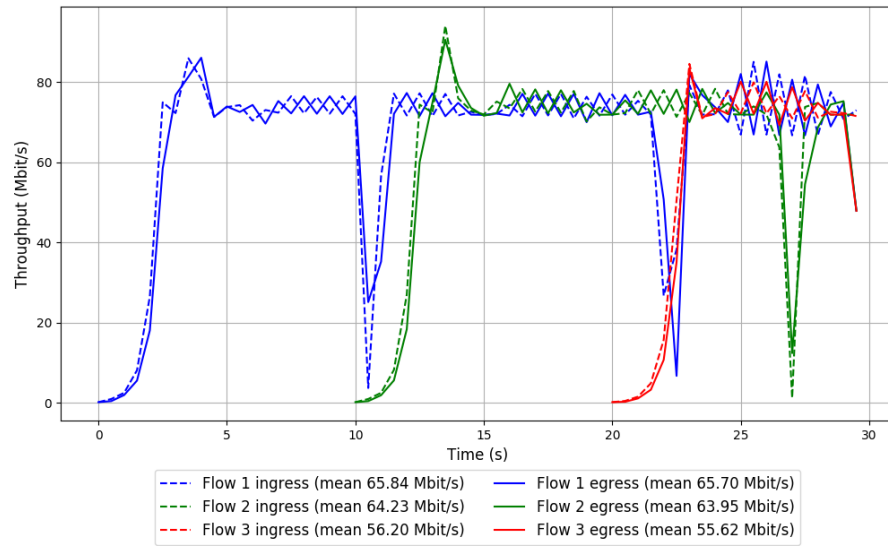
-- Flow 3:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 160.810 ms

Loss rate: 4.30%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-12 18:28:32

End at: 2017-10-12 18:29:02

Below is generated by plot.py at 2017-10-12 22:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.43 Mbit/s

95th percentile per-packet one-way delay: 159.814 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 67.33 Mbit/s

95th percentile per-packet one-way delay: 159.813 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 159.799 ms

Loss rate: 1.61%

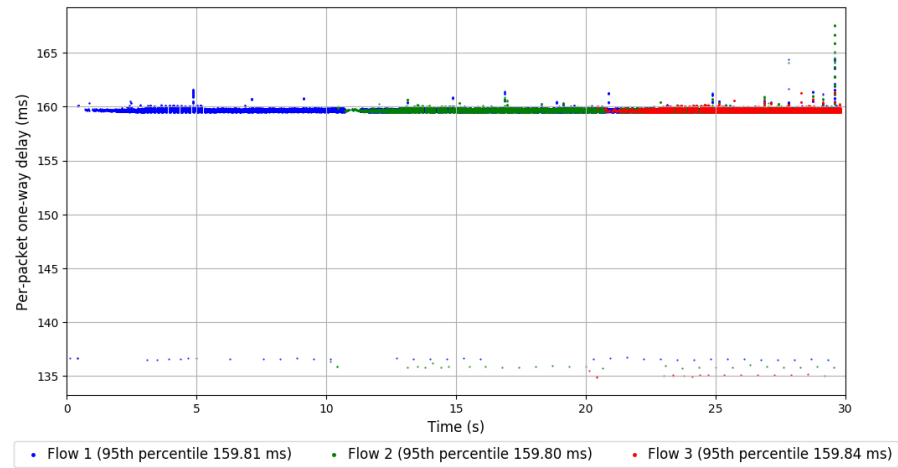
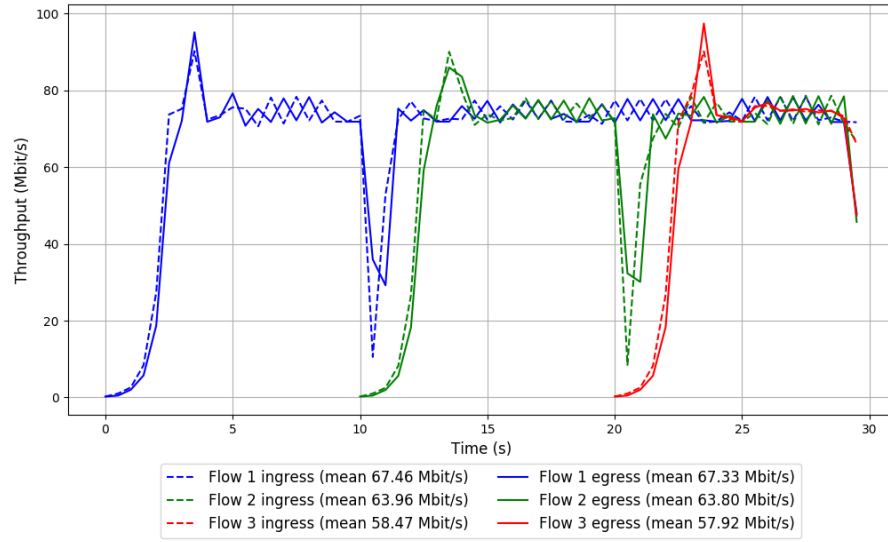
-- Flow 3:

Average throughput: 57.92 Mbit/s

95th percentile per-packet one-way delay: 159.844 ms

Loss rate: 3.66%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-12 18:42:21

End at: 2017-10-12 18:42:51

Below is generated by plot.py at 2017-10-12 22:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.04 Mbit/s

95th percentile per-packet one-way delay: 159.808 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 65.11 Mbit/s

95th percentile per-packet one-way delay: 159.789 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 159.823 ms

Loss rate: 1.67%

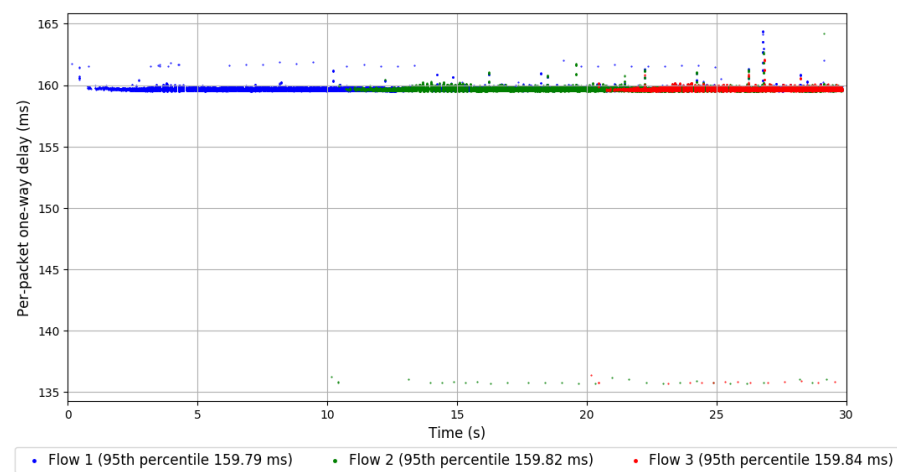
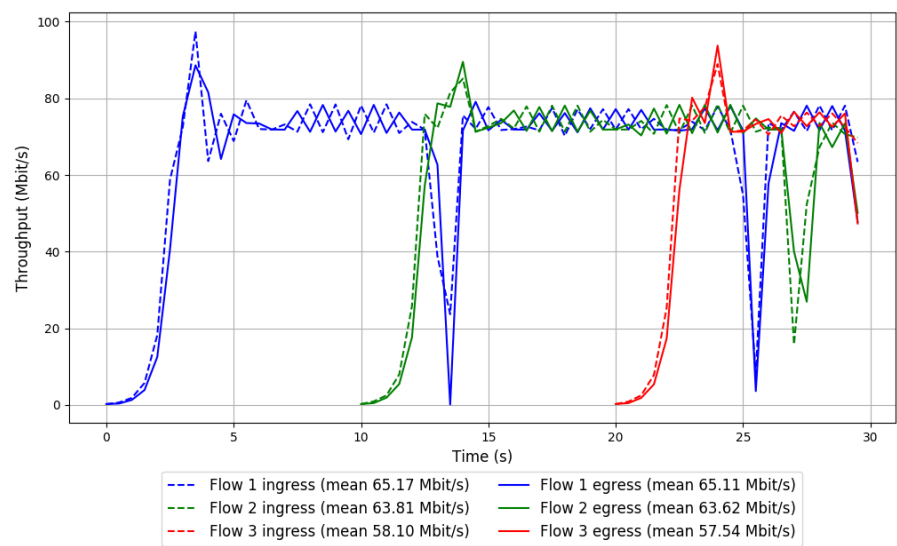
-- Flow 3:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 159.836 ms

Loss rate: 3.69%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-12 18:56:17

End at: 2017-10-12 18:56:47

Below is generated by plot.py at 2017-10-12 22:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.29 Mbit/s

95th percentile per-packet one-way delay: 159.817 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 159.813 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 159.812 ms

Loss rate: 2.04%

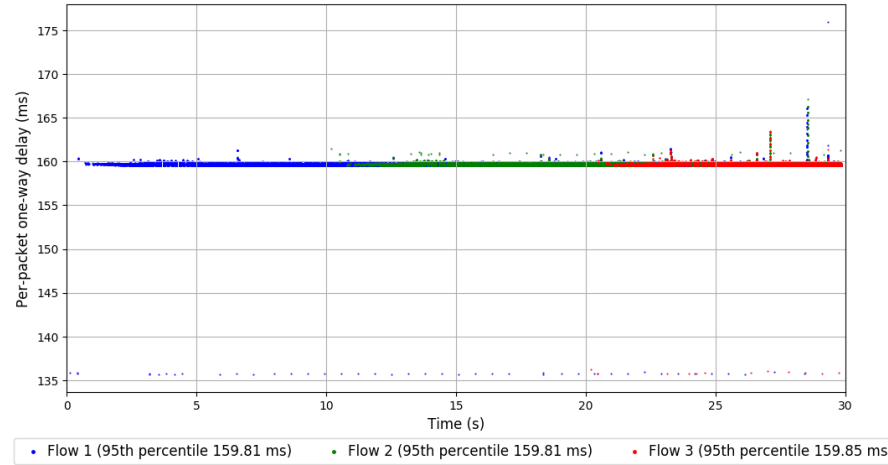
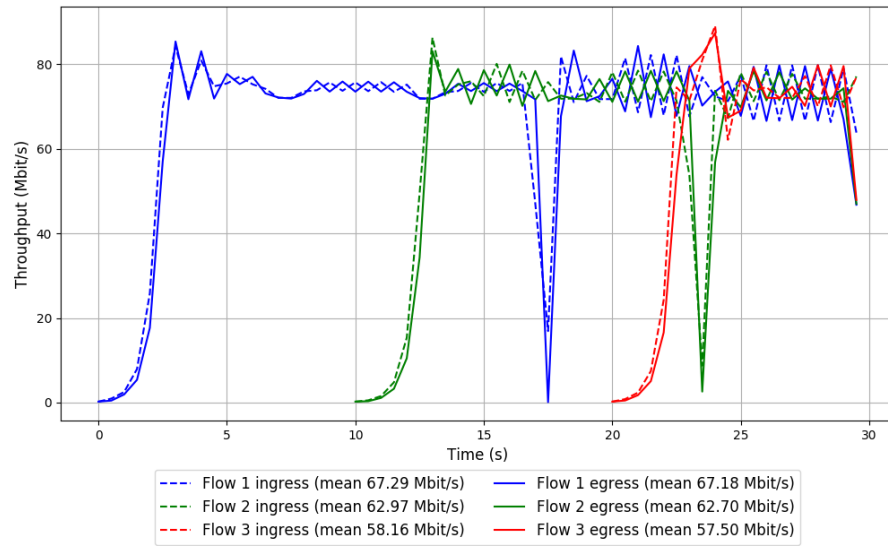
-- Flow 3:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 159.848 ms

Loss rate: 4.13%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-12 19:09:57

End at: 2017-10-12 19:10:27

Below is generated by plot.py at 2017-10-12 22:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.81 Mbit/s

95th percentile per-packet one-way delay: 159.832 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 159.835 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 159.826 ms

Loss rate: 1.67%

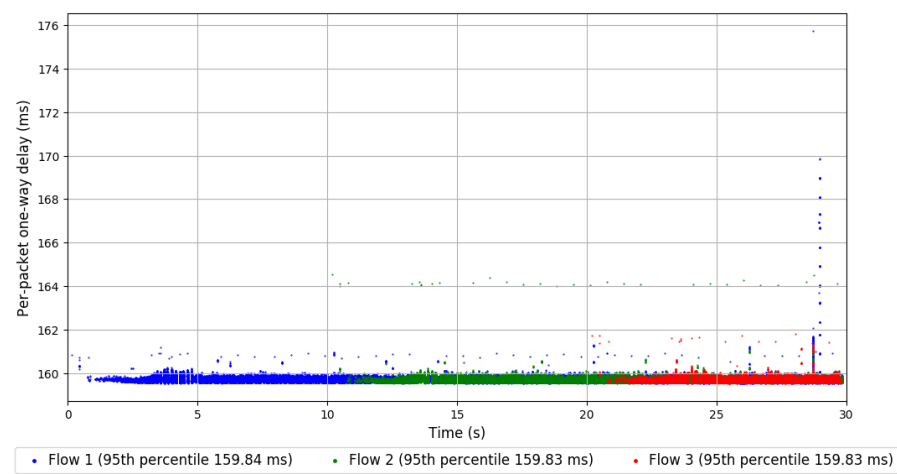
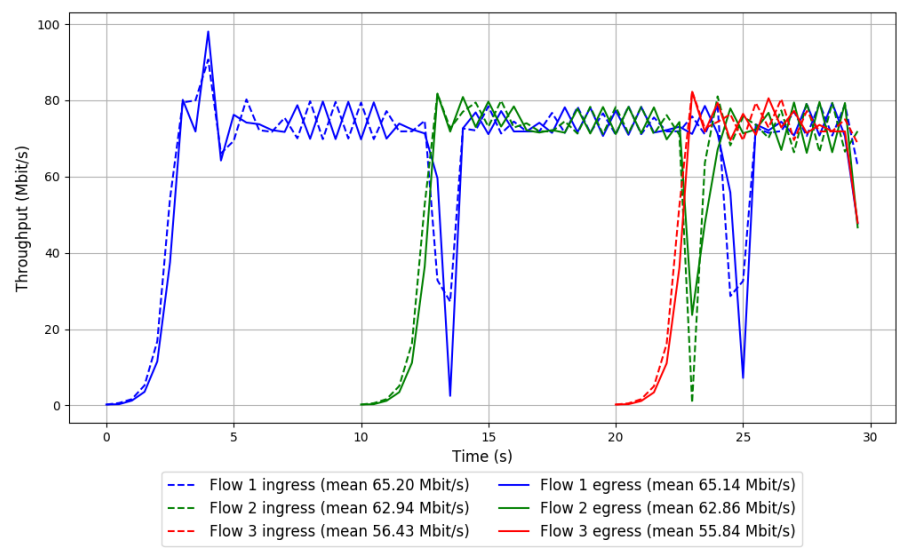
-- Flow 3:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 159.834 ms

Loss rate: 4.29%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-12 19:24:01

End at: 2017-10-12 19:24:31

Below is generated by plot.py at 2017-10-12 22:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.84 Mbit/s

95th percentile per-packet one-way delay: 159.819 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 66.75 Mbit/s

95th percentile per-packet one-way delay: 159.803 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 159.814 ms

Loss rate: 1.68%

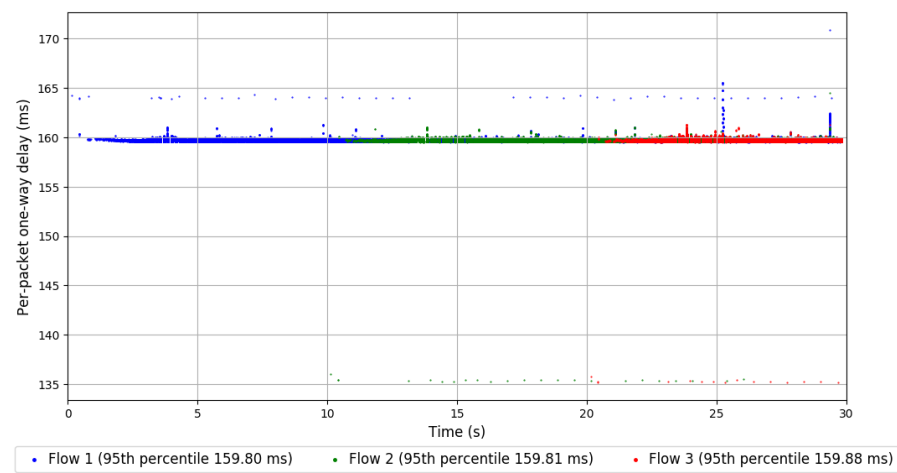
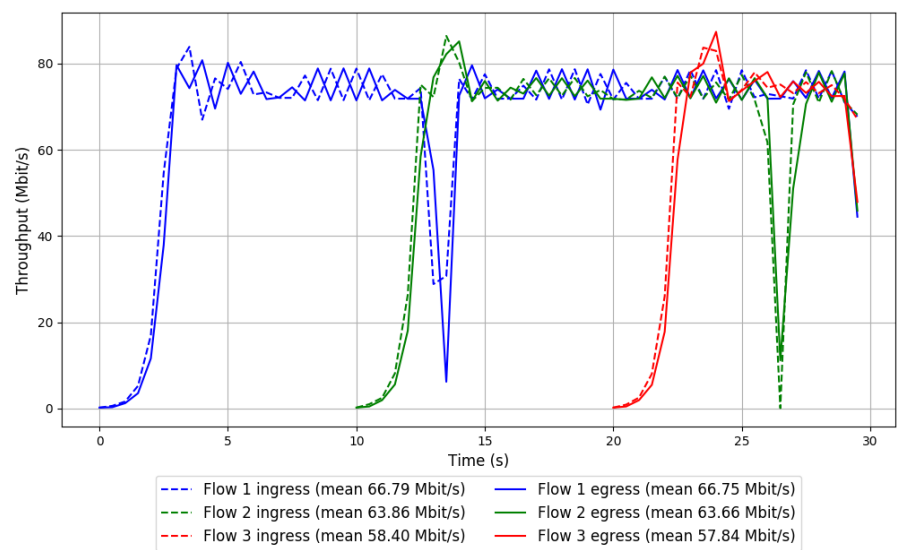
-- Flow 3:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 159.881 ms

Loss rate: 3.72%

Run 9: Report of TCP BBR — Data Link

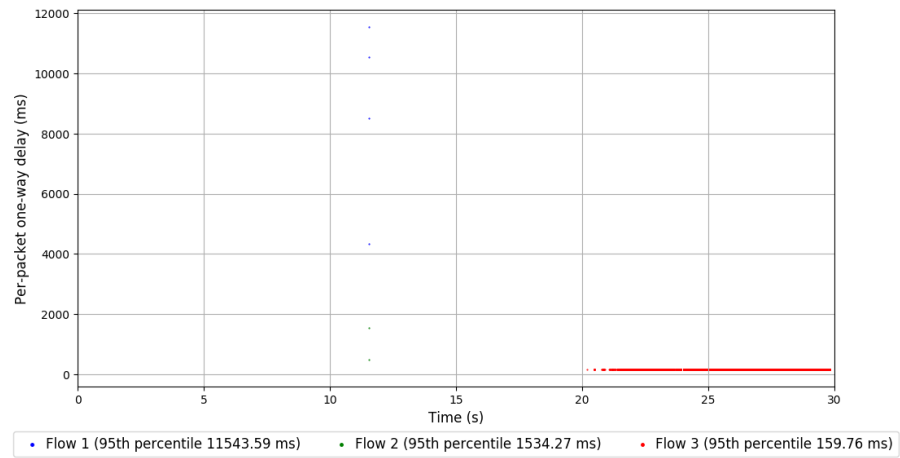
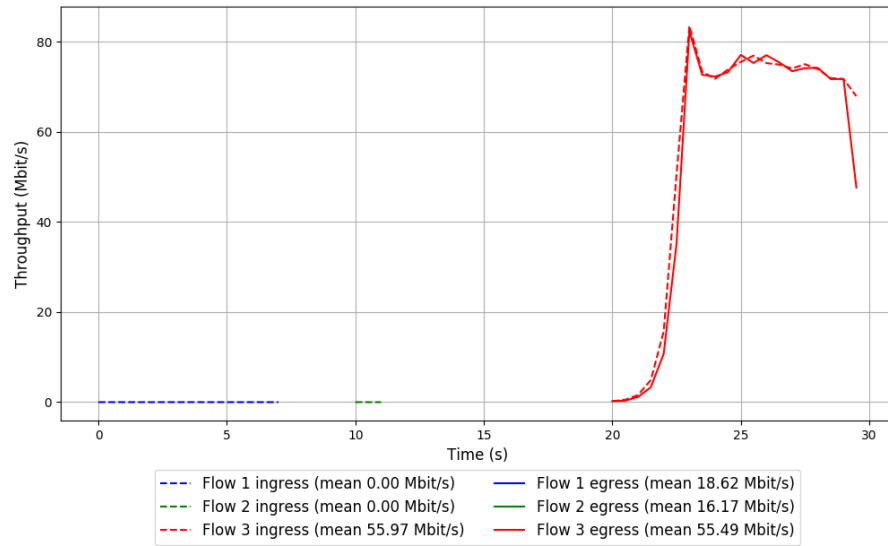


Run 10: Statistics of TCP BBR

Start at: 2017-10-12 19:37:44

End at: 2017-10-12 19:38:14

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-12 17:38:34

End at: 2017-10-12 17:39:04

Below is generated by plot.py at 2017-10-12 22:12:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.07 Mbit/s

95th percentile per-packet one-way delay: 166.546 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 166.834 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 165.844 ms

Loss rate: 4.23%

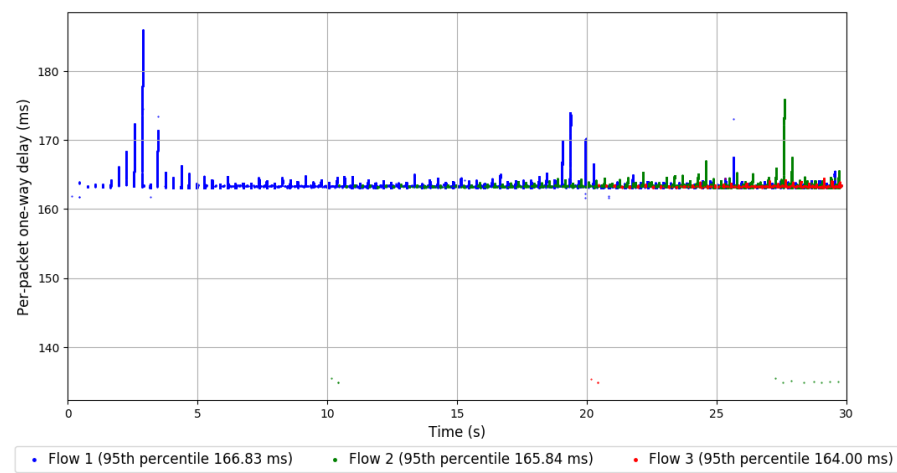
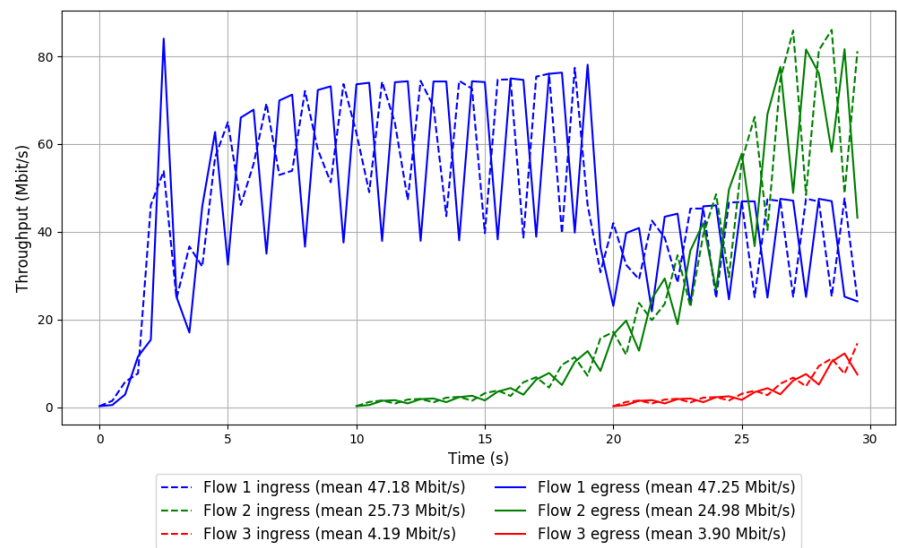
-- Flow 3:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 164.000 ms

Loss rate: 9.57%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-12 17:52:20

End at: 2017-10-12 17:52:50

Below is generated by plot.py at 2017-10-12 22:12:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 171.890 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 17.20 Mbit/s

95th percentile per-packet one-way delay: 164.976 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 173.328 ms

Loss rate: 1.06%

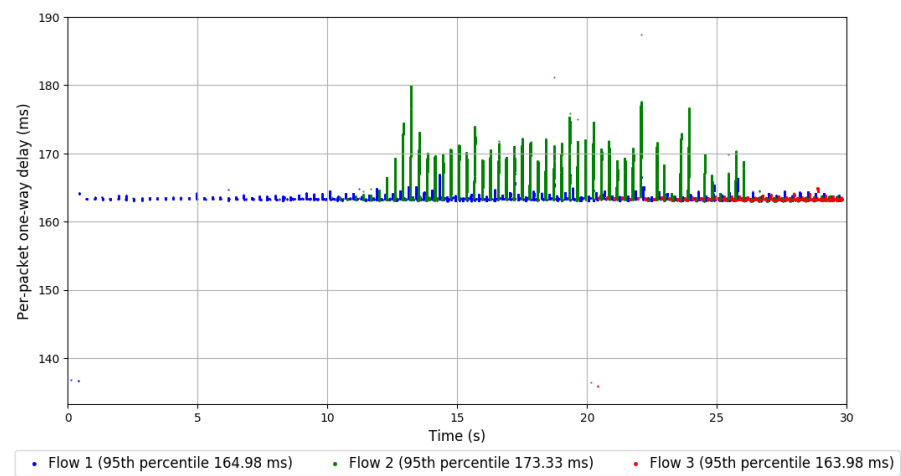
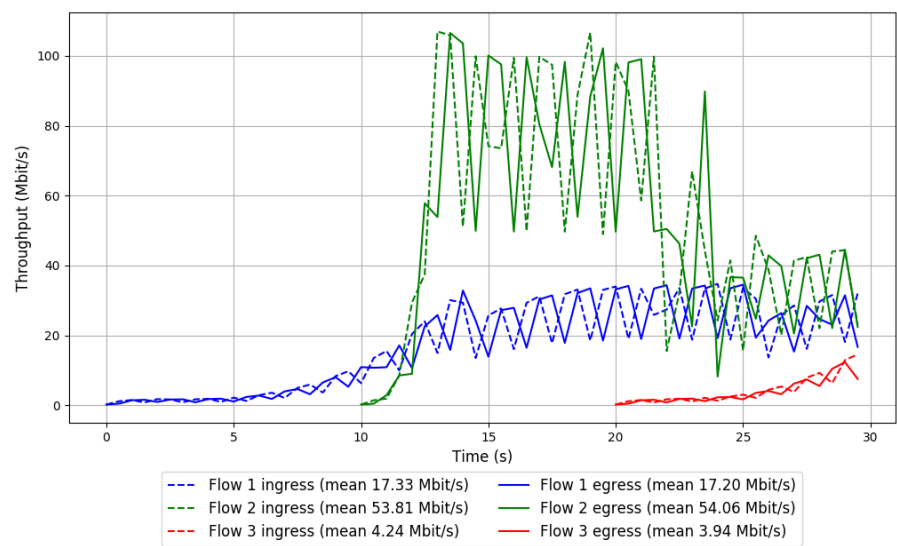
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 163.982 ms

Loss rate: 9.63%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-12 18:06:07

End at: 2017-10-12 18:06:37

Below is generated by plot.py at 2017-10-12 22:12:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 166.132 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 161.338 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 167.204 ms

Loss rate: 1.73%

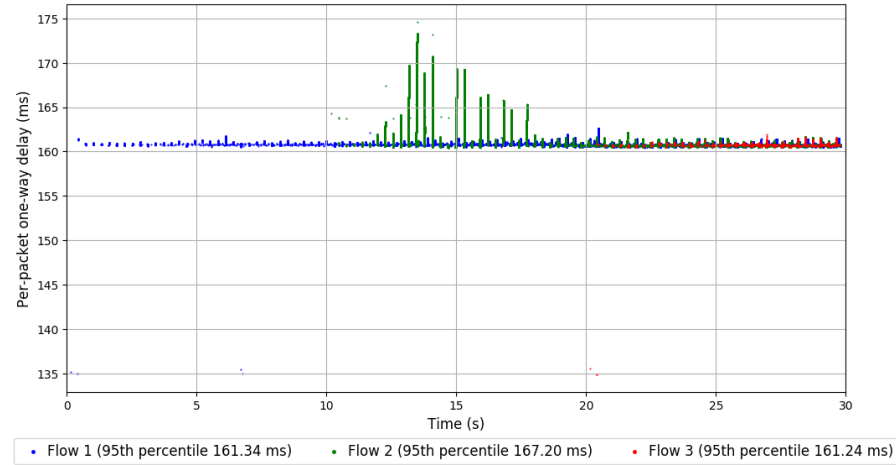
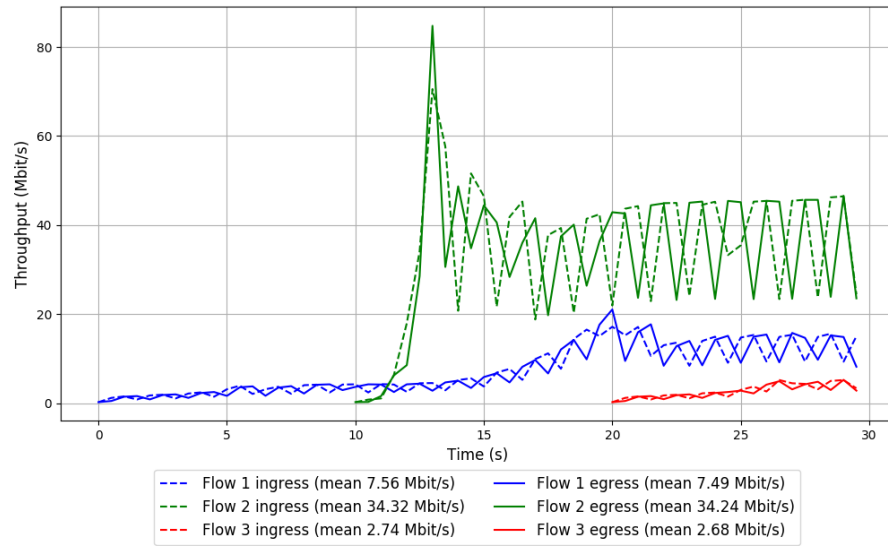
-- Flow 3:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 161.235 ms

Loss rate: 5.30%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-12 18:19:35

End at: 2017-10-12 18:20:05

Below is generated by plot.py at 2017-10-12 22:12:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 163.098 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 163.508 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 161.557 ms

Loss rate: 3.43%

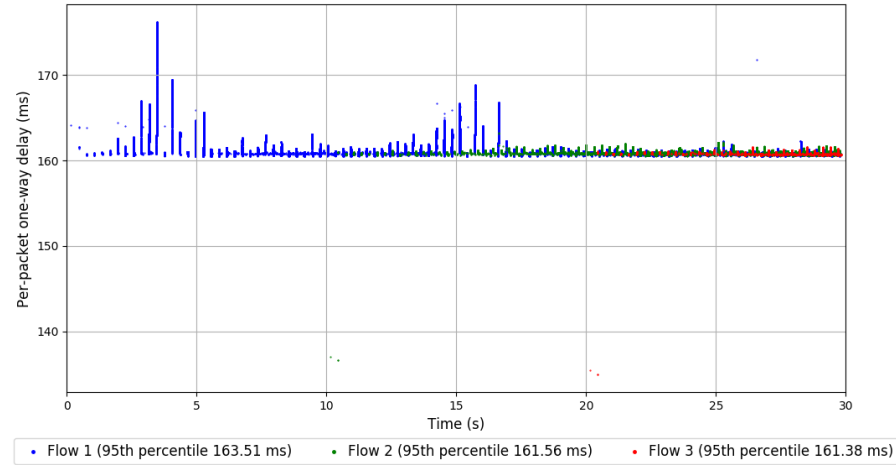
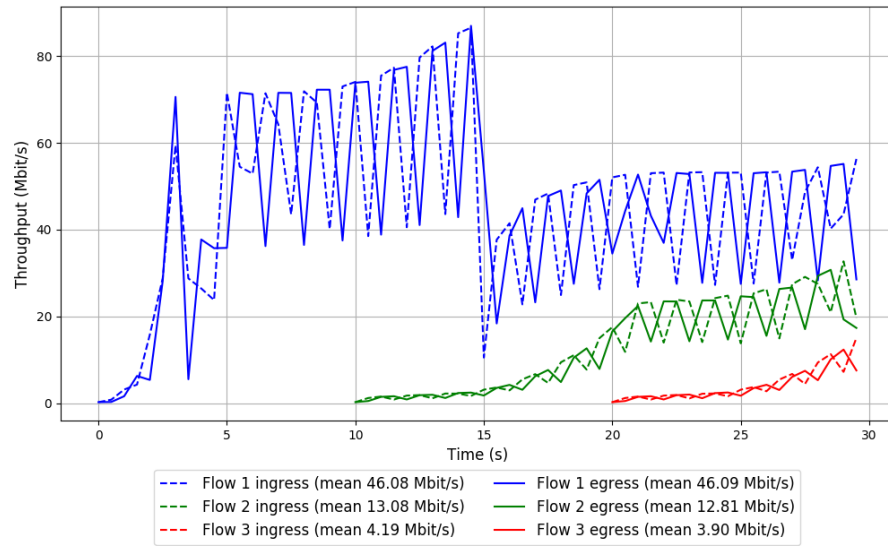
-- Flow 3:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 161.379 ms

Loss rate: 9.56%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-12 18:33:26

End at: 2017-10-12 18:33:56

Below is generated by plot.py at 2017-10-12 22:12:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 166.186 ms

Loss rate: 3.73%

-- Flow 1:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 161.378 ms

Loss rate: 3.52%

-- Flow 2:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 162.839 ms

Loss rate: 4.28%

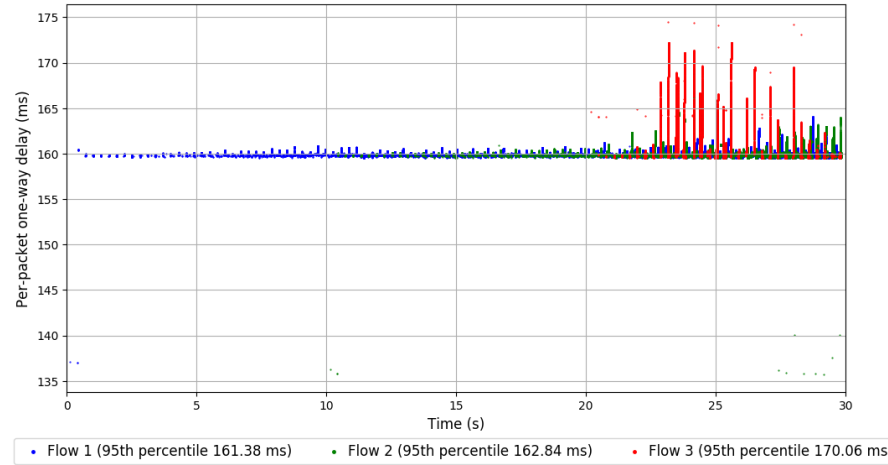
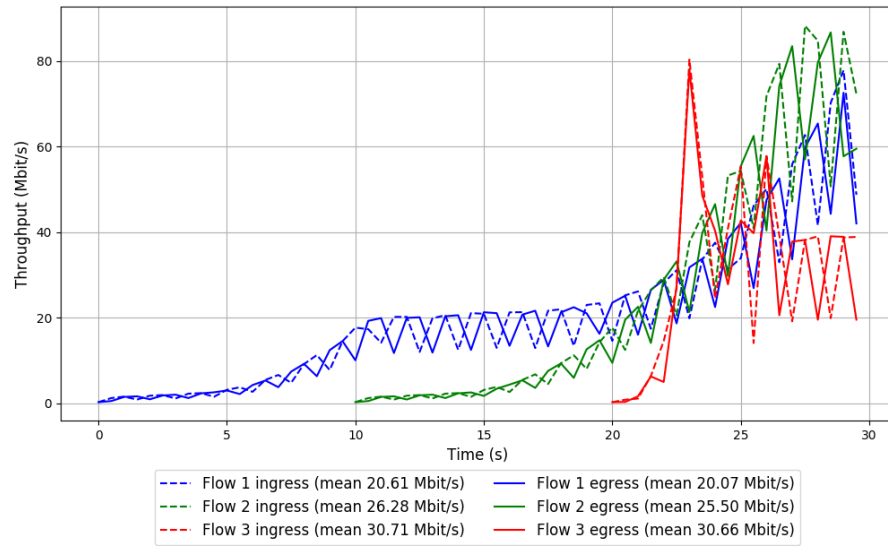
-- Flow 3:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 170.057 ms

Loss rate: 3.21%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-12 18:47:00

End at: 2017-10-12 18:47:30

Below is generated by plot.py at 2017-10-12 22:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 143.980 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 141.932 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 143.007 ms

Loss rate: 1.51%

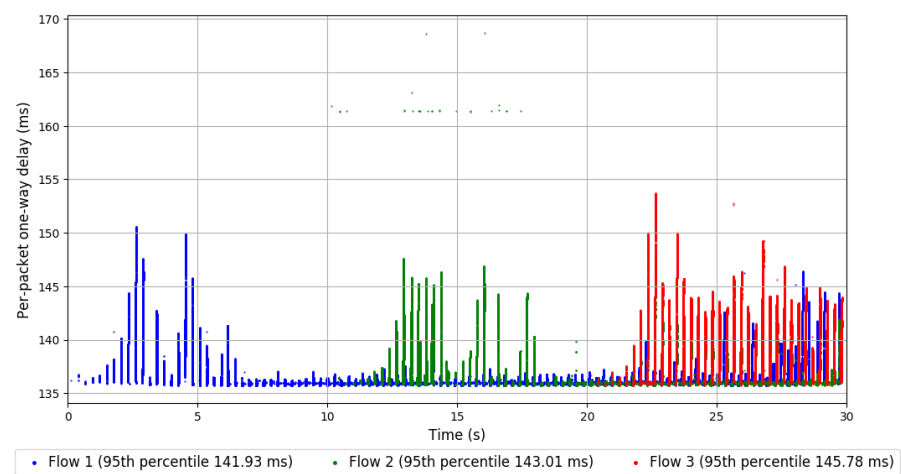
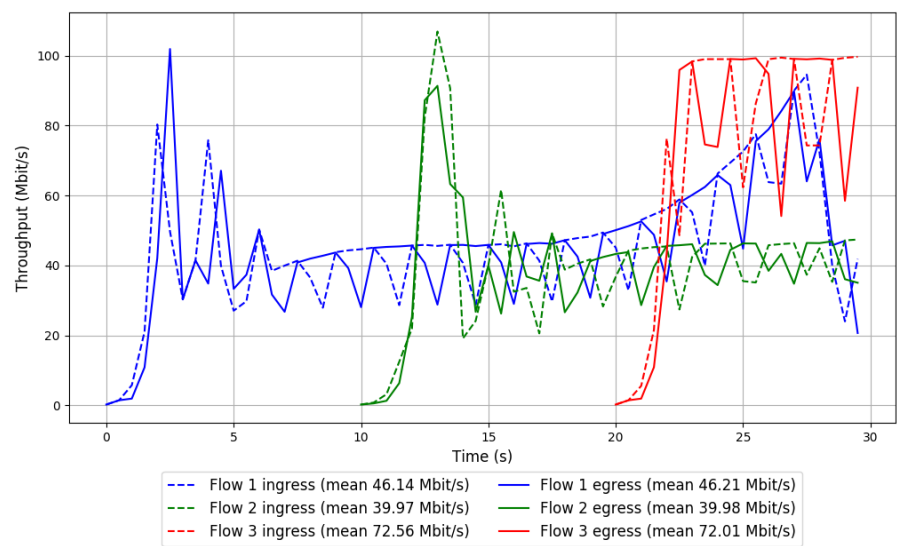
-- Flow 3:

Average throughput: 72.01 Mbit/s

95th percentile per-packet one-way delay: 145.779 ms

Loss rate: 3.45%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-12 19:01:19

End at: 2017-10-12 19:01:49

Below is generated by plot.py at 2017-10-12 22:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 170.112 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 169.537 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 171.671 ms

Loss rate: 6.55%

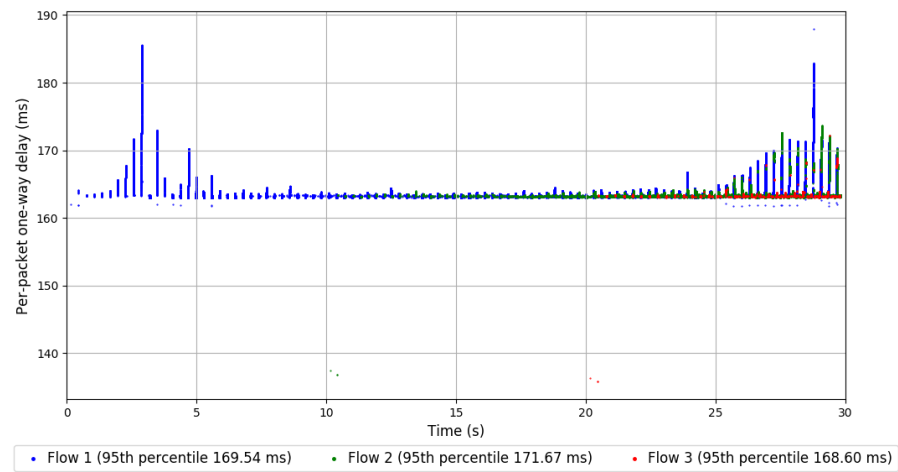
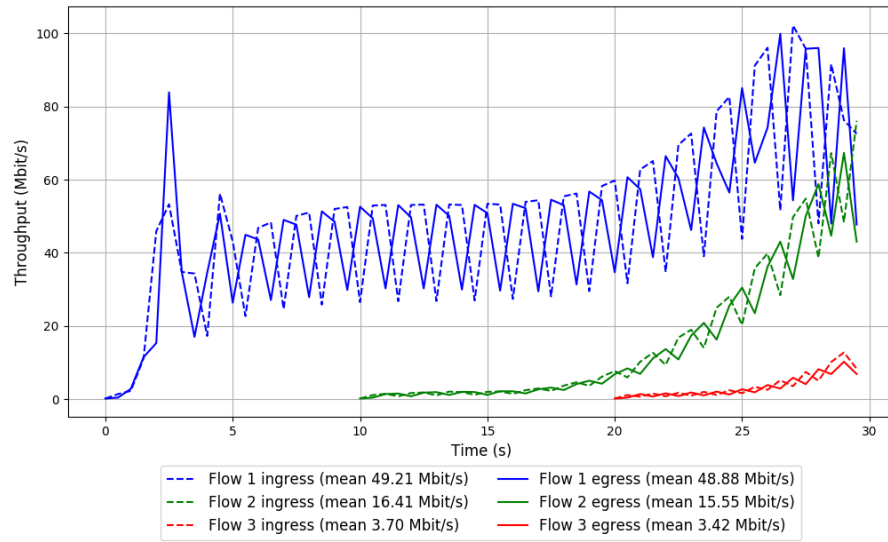
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 168.599 ms

Loss rate: 10.57%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-12 19:14:54

End at: 2017-10-12 19:15:24

Below is generated by plot.py at 2017-10-12 22:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.79 Mbit/s

95th percentile per-packet one-way delay: 166.175 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 44.71 Mbit/s

95th percentile per-packet one-way delay: 166.572 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 20.02 Mbit/s

95th percentile per-packet one-way delay: 162.749 ms

Loss rate: 5.54%

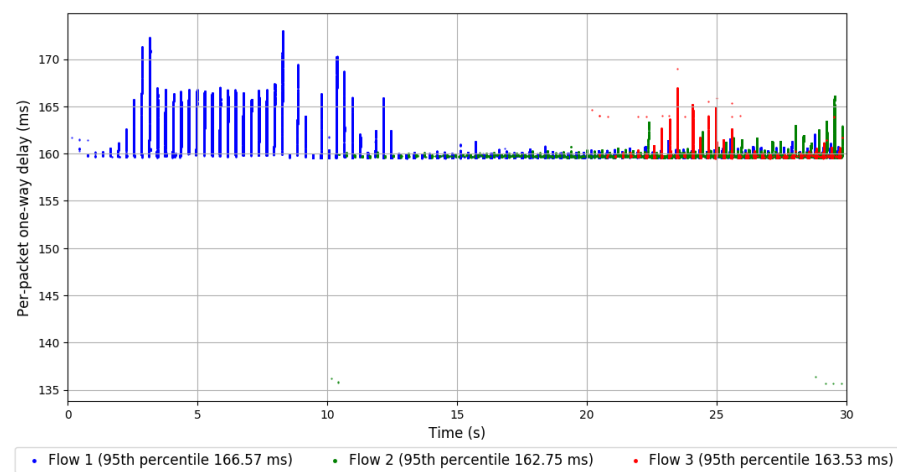
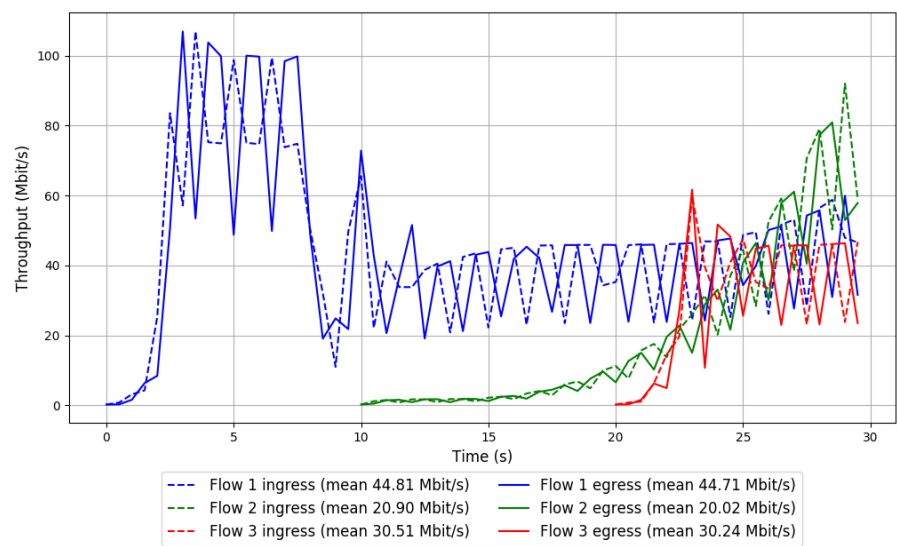
-- Flow 3:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 163.527 ms

Loss rate: 3.89%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-12 19:28:58

End at: 2017-10-12 19:29:28

Below is generated by plot.py at 2017-10-12 22:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 165.064 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 42.46 Mbit/s

95th percentile per-packet one-way delay: 166.131 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 163.336 ms

Loss rate: 4.18%

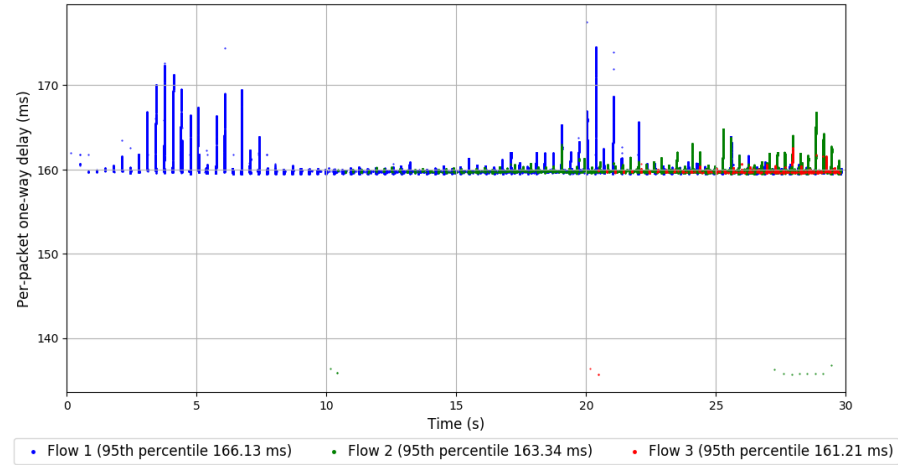
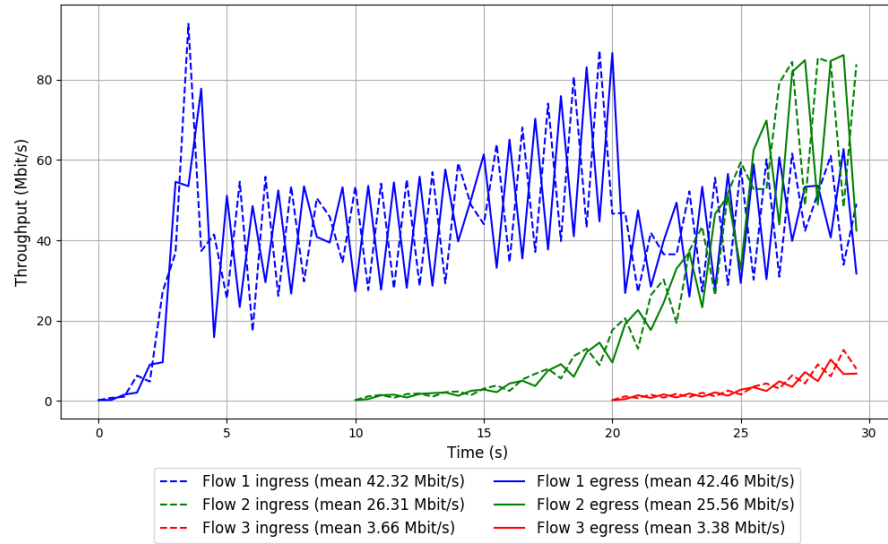
-- Flow 3:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 161.212 ms

Loss rate: 10.44%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-12 19:42:41

End at: 2017-10-12 19:43:11

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 166.805 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 167.261 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 162.343 ms

Loss rate: 6.05%

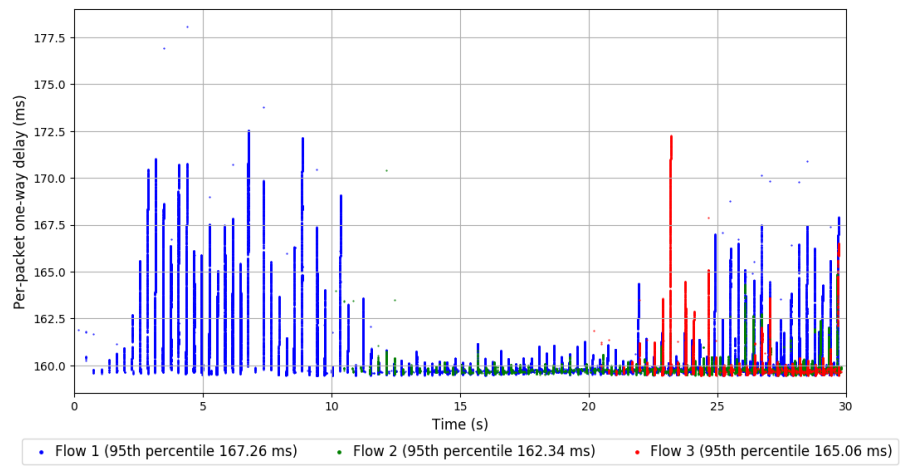
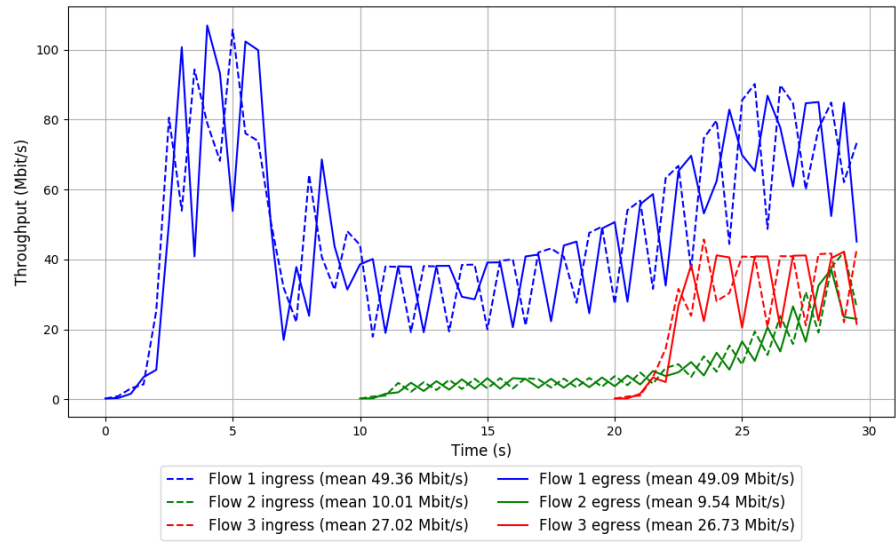
-- Flow 3:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 165.061 ms

Loss rate: 4.06%

Run 10: Report of TCP Cubic — Data Link

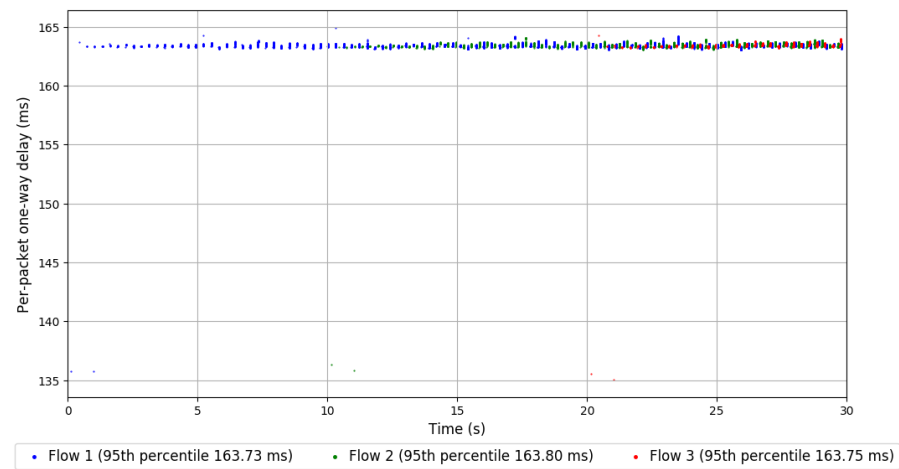
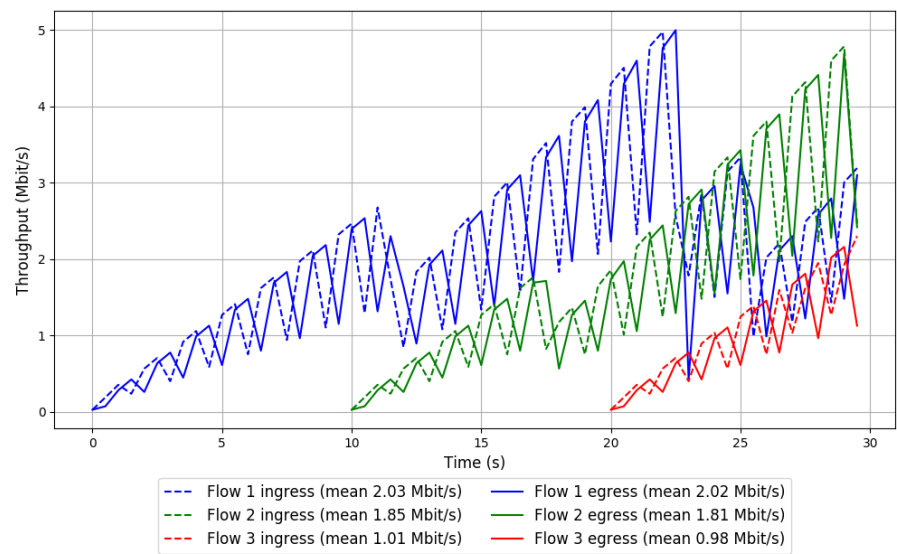


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-12 17:32:34
End at: 2017-10-12 17:33:04

# Below is generated by plot.py at 2017-10-12 22:13:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 163.762 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 163.726 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 163.797 ms
Loss rate: 3.36%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 163.747 ms
Loss rate: 5.86%
```


Run 1: Report of LEDBAT — Data Link

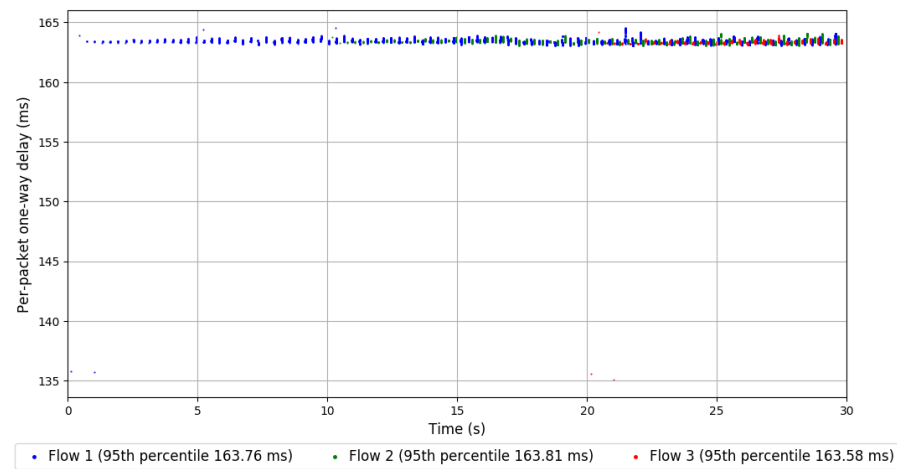
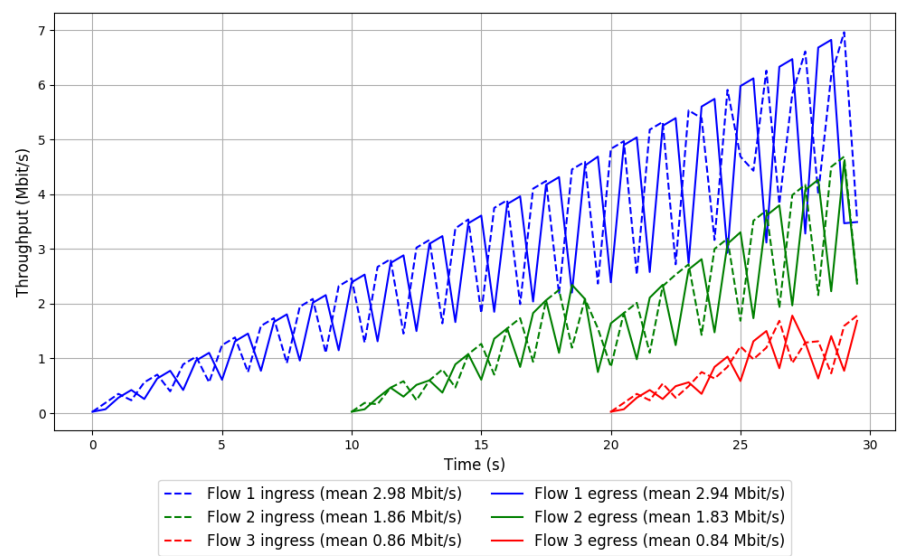


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-12 17:46:45
End at: 2017-10-12 17:47:15

# Below is generated by plot.py at 2017-10-12 22:13:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 163.765 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 163.762 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 163.807 ms
Loss rate: 3.28%
-- Flow 3:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 163.583 ms
Loss rate: 5.36%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-12 18:00:23

End at: 2017-10-12 18:00:53

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 161.352 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 161.325 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 161.469 ms

Loss rate: 3.70%

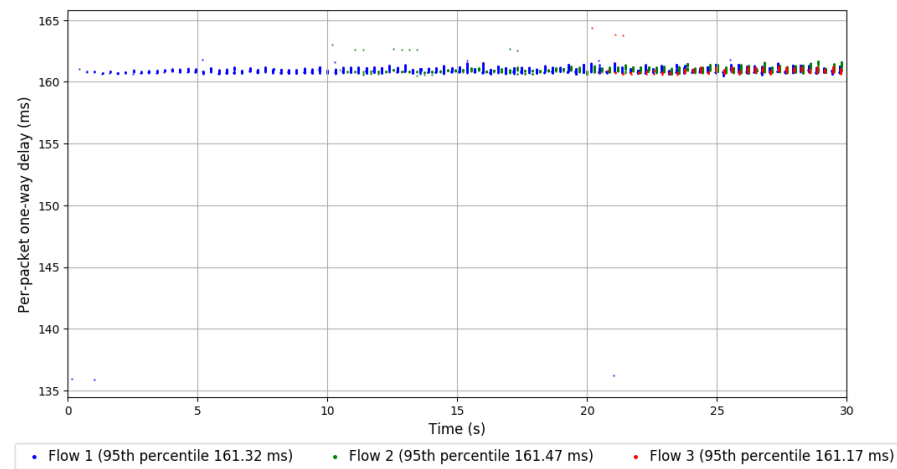
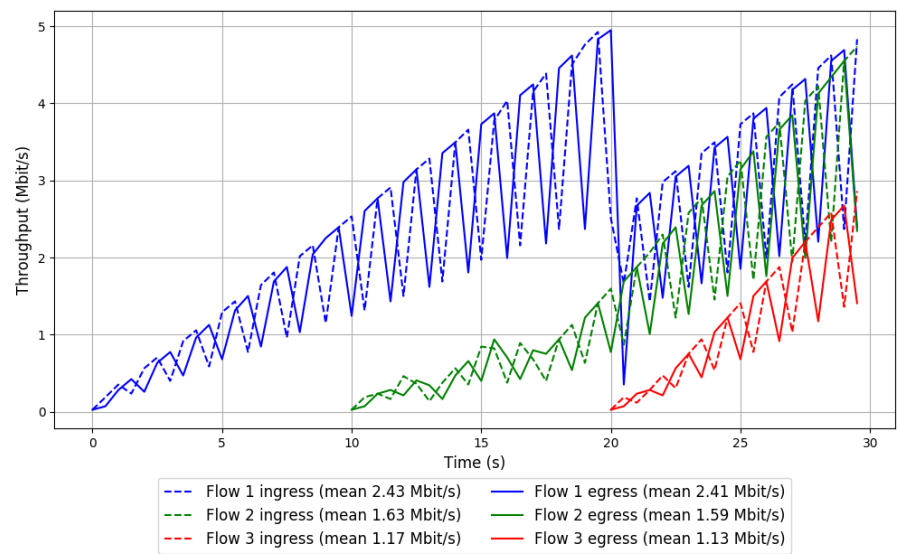
-- Flow 3:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 161.168 ms

Loss rate: 6.32%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-12 18:13:43

End at: 2017-10-12 18:14:13

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 161.383 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 161.451 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 161.295 ms

Loss rate: 3.37%

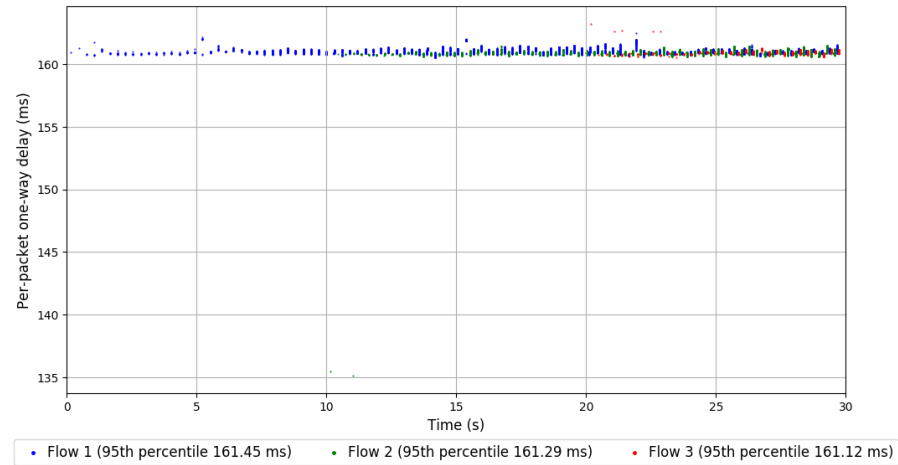
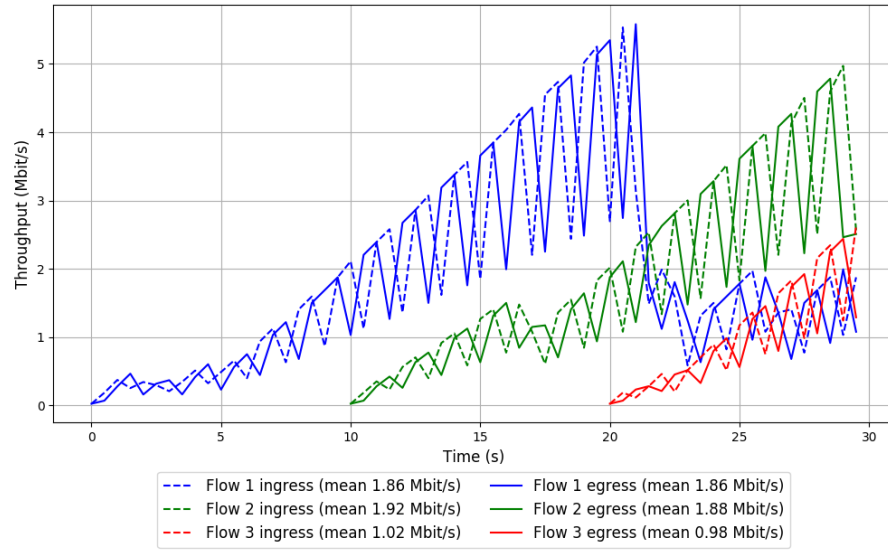
-- Flow 3:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 161.120 ms

Loss rate: 6.68%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-12 18:27:41

End at: 2017-10-12 18:28:11

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 160.328 ms

Loss rate: 3.13%

-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 160.400 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 160.199 ms

Loss rate: 2.97%

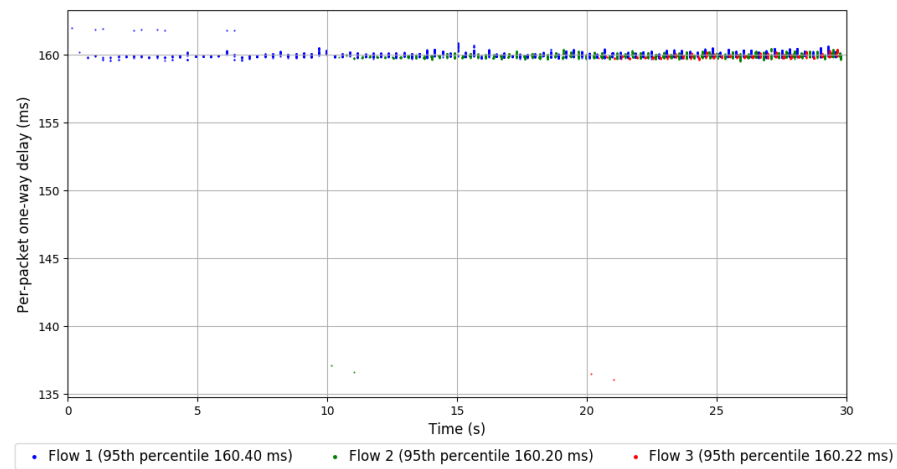
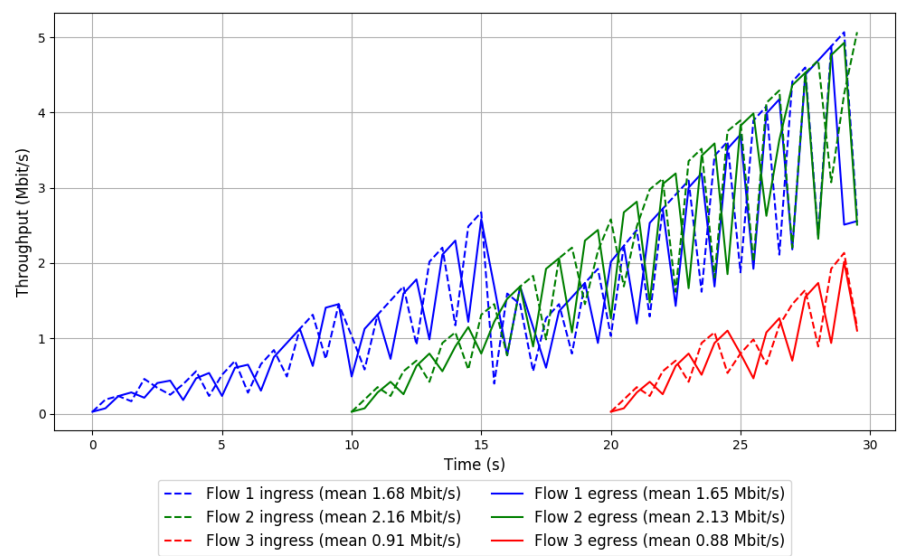
-- Flow 3:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 160.215 ms

Loss rate: 6.44%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-12 18:41:29

End at: 2017-10-12 18:41:59

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 160.387 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 160.416 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 160.324 ms

Loss rate: 2.69%

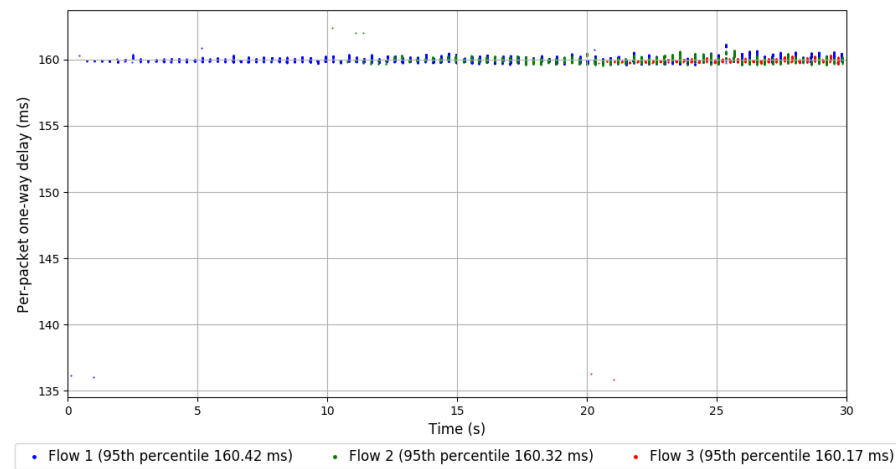
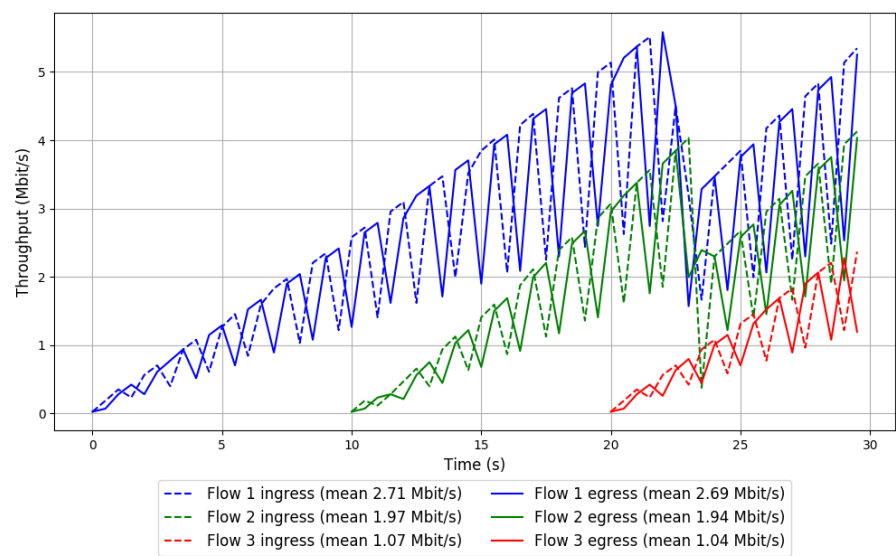
-- Flow 3:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 160.166 ms

Loss rate: 5.93%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-12 18:55:25

End at: 2017-10-12 18:55:55

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 160.428 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 160.476 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 160.252 ms

Loss rate: 3.40%

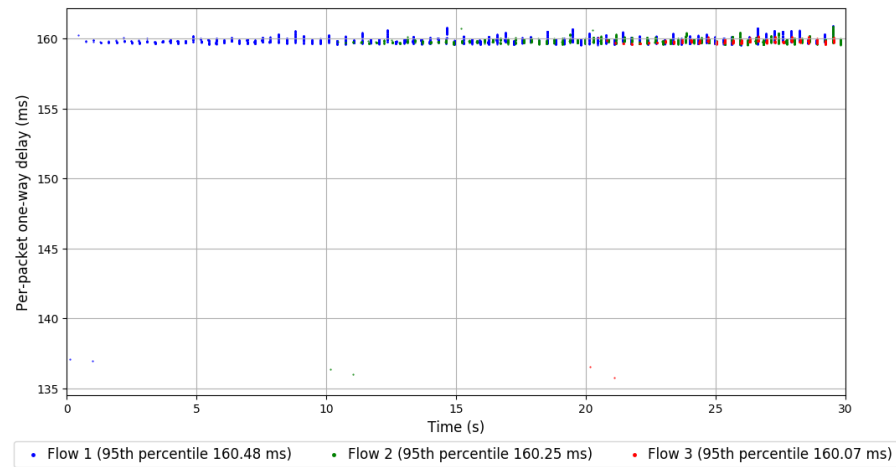
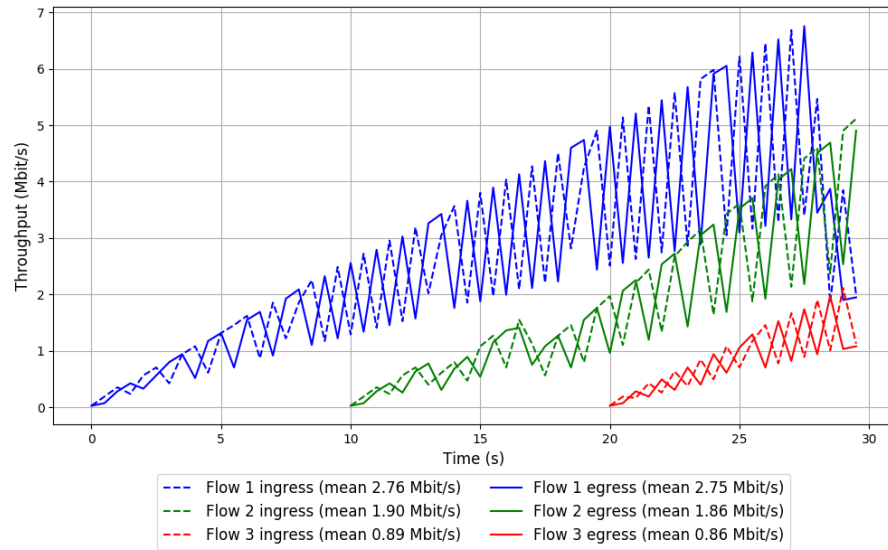
-- Flow 3:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 160.066 ms

Loss rate: 6.51%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-12 19:09:05

End at: 2017-10-12 19:09:35

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 160.448 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 160.467 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 160.172 ms

Loss rate: 1.61%

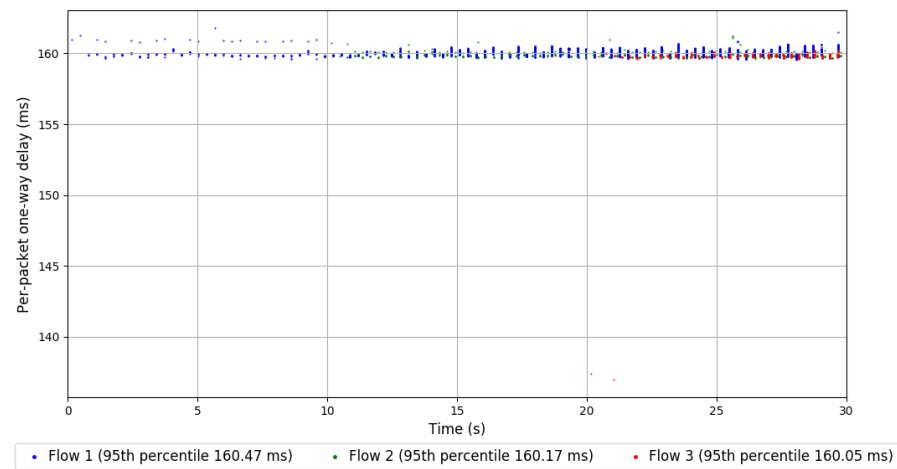
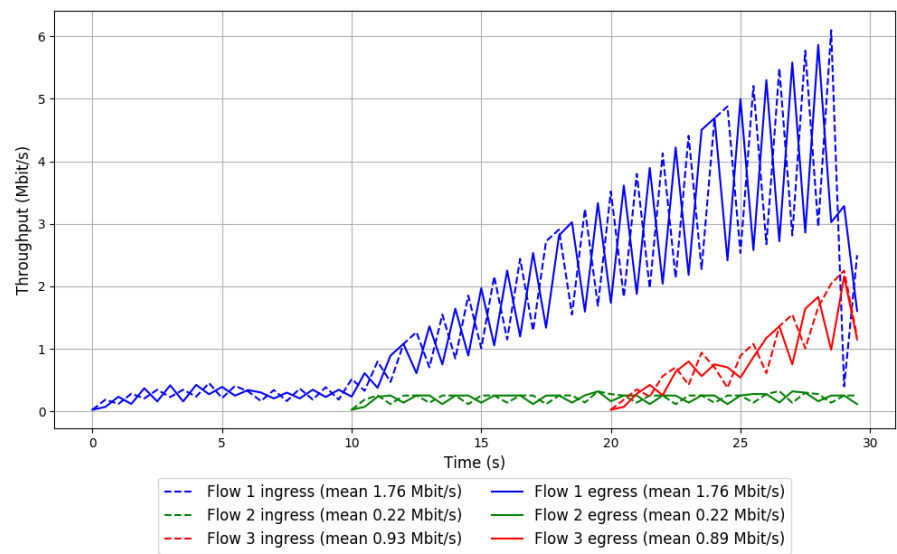
-- Flow 3:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 160.054 ms

Loss rate: 6.59%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-12 19:23:10

End at: 2017-10-12 19:23:40

Below is generated by plot.py at 2017-10-12 22:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 160.483 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 160.529 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 160.291 ms

Loss rate: 2.62%

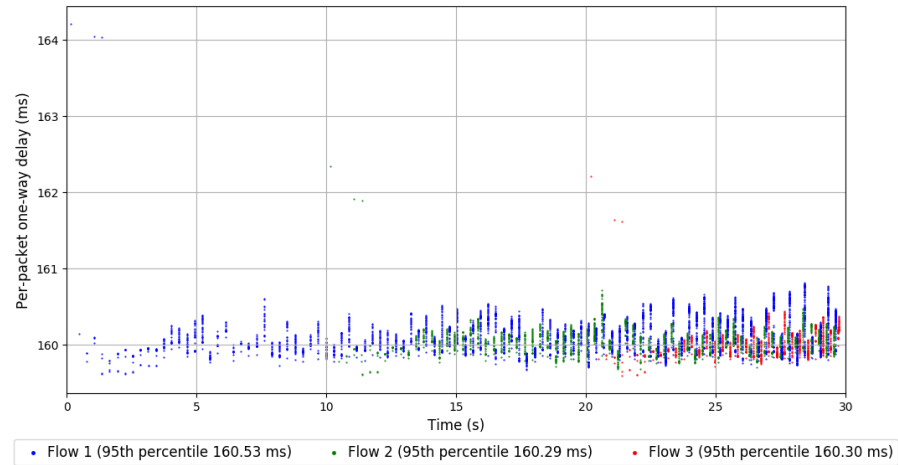
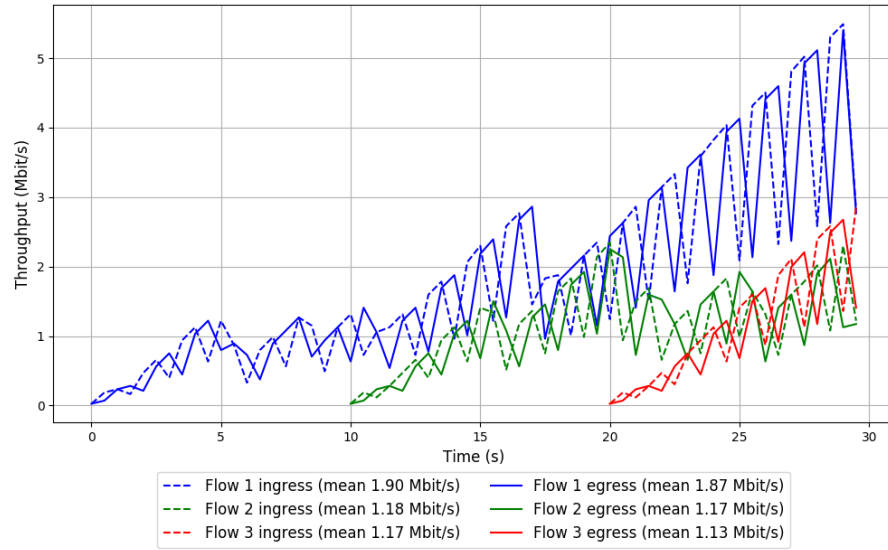
-- Flow 3:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 160.300 ms

Loss rate: 6.32%

Run 9: Report of LEDBAT — Data Link

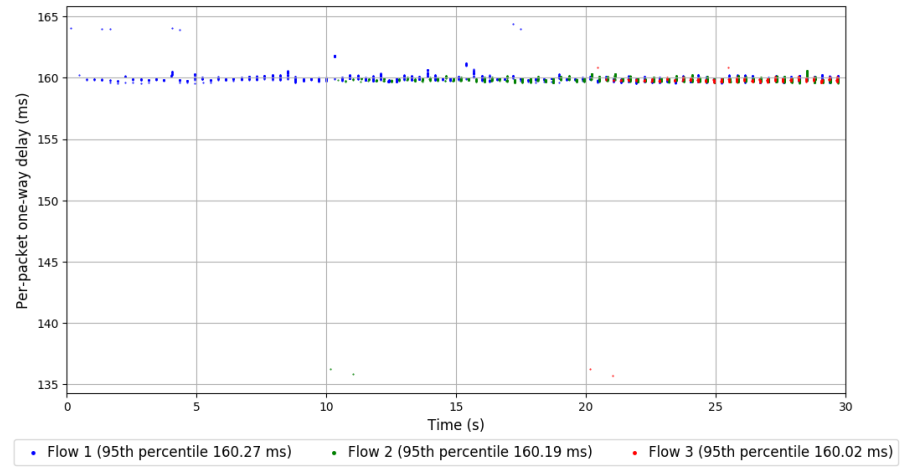
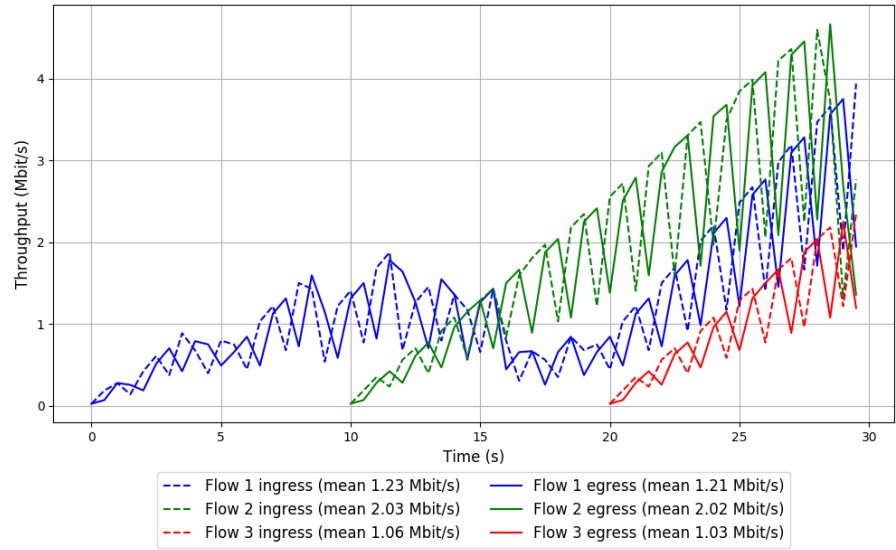


```
Run 10: Statistics of LEDBAT

Start at: 2017-10-12 19:36:53
End at: 2017-10-12 19:37:23

# Below is generated by plot.py at 2017-10-12 22:13:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 160.209 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 160.271 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 160.185 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 160.017 ms
Loss rate: 5.88%
```

Run 10: Report of LEDBAT — Data Link

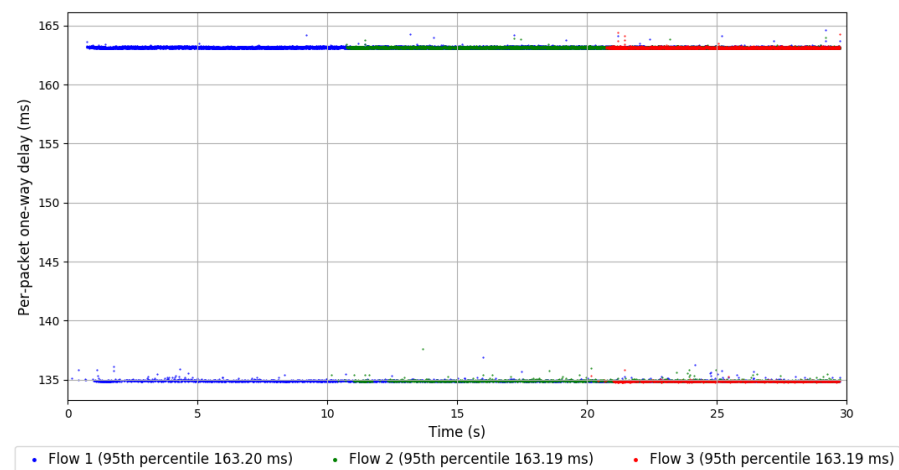
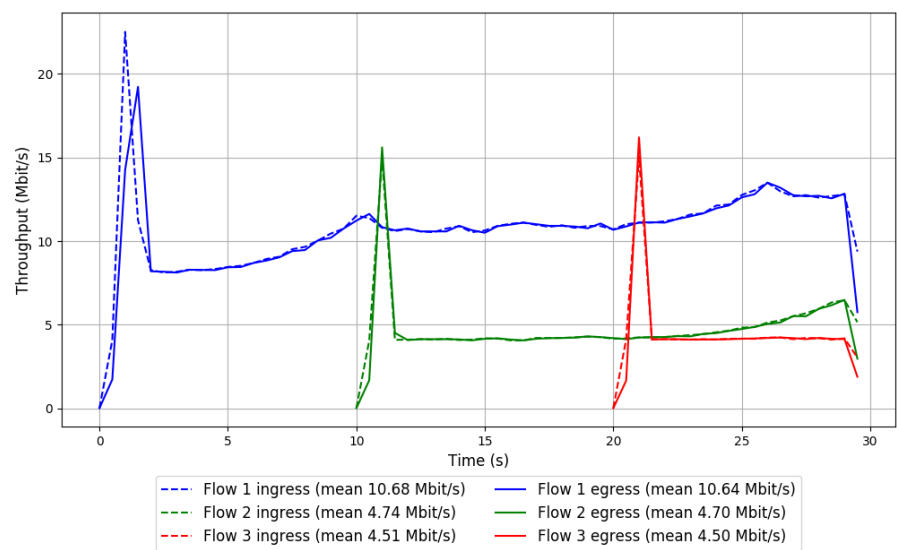


```
Run 1: Statistics of PCC

Start at: 2017-10-12 17:31:42
End at: 2017-10-12 17:32:12

# Below is generated by plot.py at 2017-10-12 22:13:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 163.197 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 10.64 Mbit/s
95th percentile per-packet one-way delay: 163.199 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 163.193 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 163.185 ms
Loss rate: 2.84%
```

Run 1: Report of PCC — Data Link

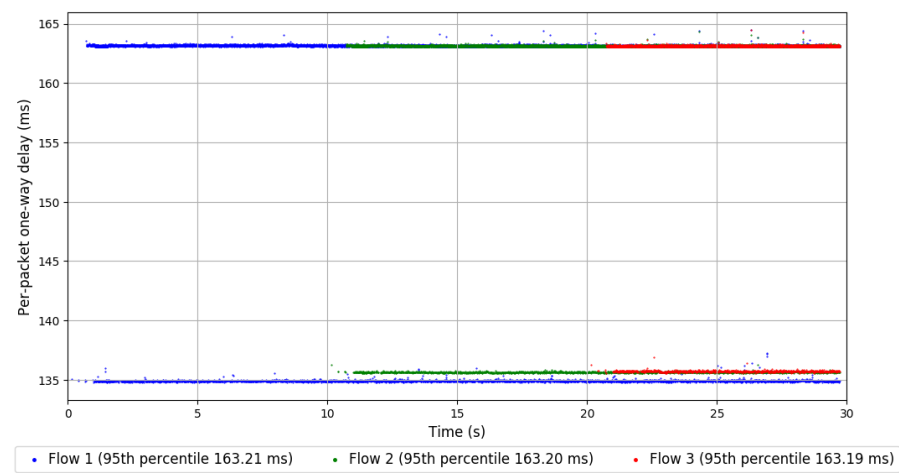
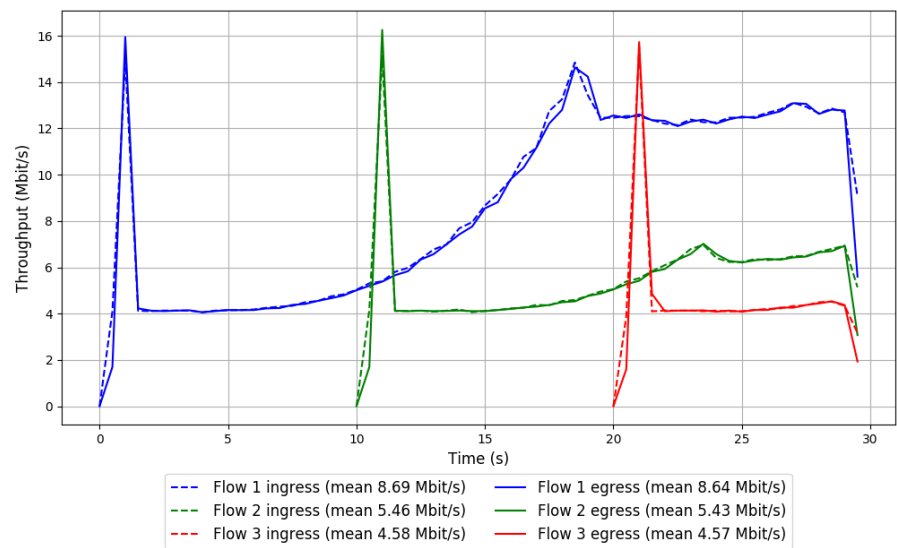


```
Run 2: Statistics of PCC

Start at: 2017-10-12 17:45:53
End at: 2017-10-12 17:46:23

# Below is generated by plot.py at 2017-10-12 22:13:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: 163.208 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 163.213 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 163.199 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 163.191 ms
Loss rate: 2.95%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-12 17:59:06

End at: 2017-10-12 17:59:36

Below is generated by plot.py at 2017-10-12 22:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.70 Mbit/s

95th percentile per-packet one-way delay: 270.857 ms

Loss rate: 5.47%

-- Flow 1:

Average throughput: 448.74 Mbit/s

95th percentile per-packet one-way delay: 271.291 ms

Loss rate: 5.93%

-- Flow 2:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 247.219 ms

Loss rate: 2.99%

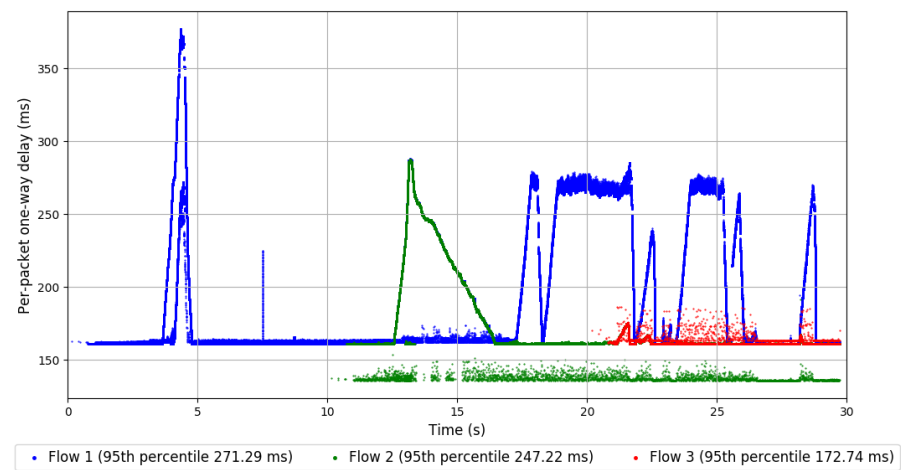
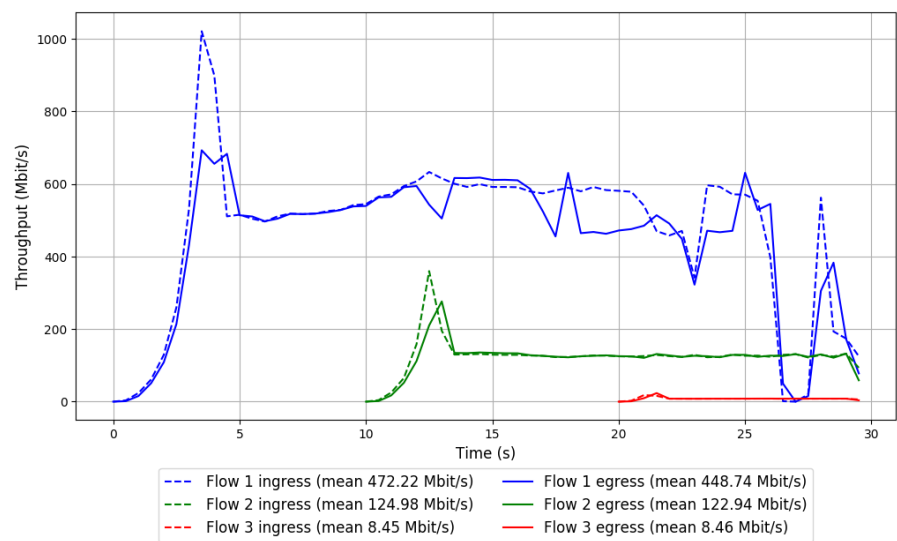
-- Flow 3:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 172.735 ms

Loss rate: 2.99%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-12 18:12:51

End at: 2017-10-12 18:13:21

Below is generated by plot.py at 2017-10-12 22:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 160.659 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 160.667 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 160.656 ms

Loss rate: 1.74%

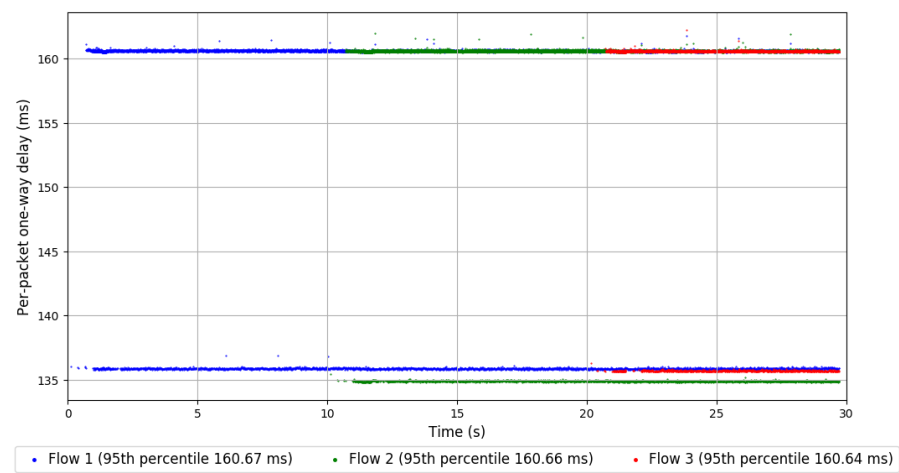
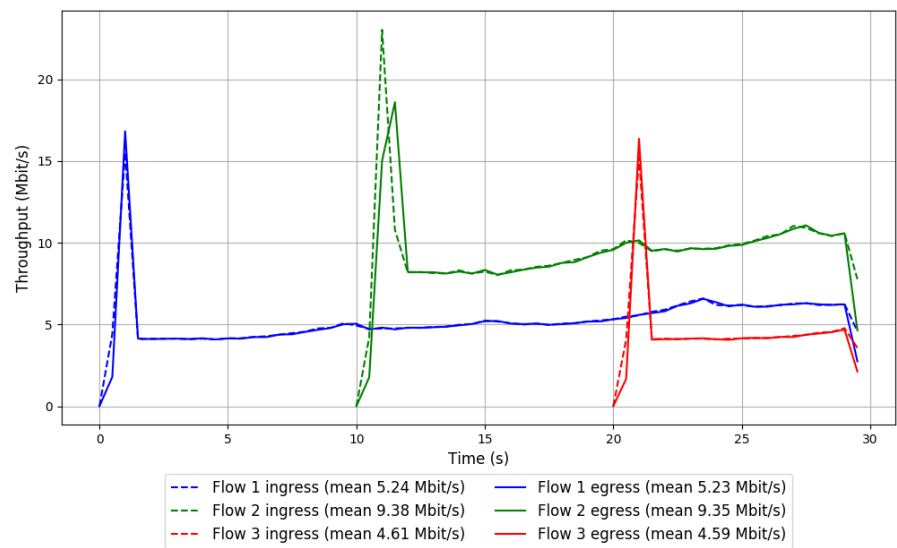
-- Flow 3:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 160.639 ms

Loss rate: 3.28%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-12 18:26:43

End at: 2017-10-12 18:27:13

Below is generated by plot.py at 2017-10-12 22:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.66 Mbit/s

95th percentile per-packet one-way delay: 276.034 ms

Loss rate: 6.91%

-- Flow 1:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 159.715 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 160.123 ms

Loss rate: 2.45%

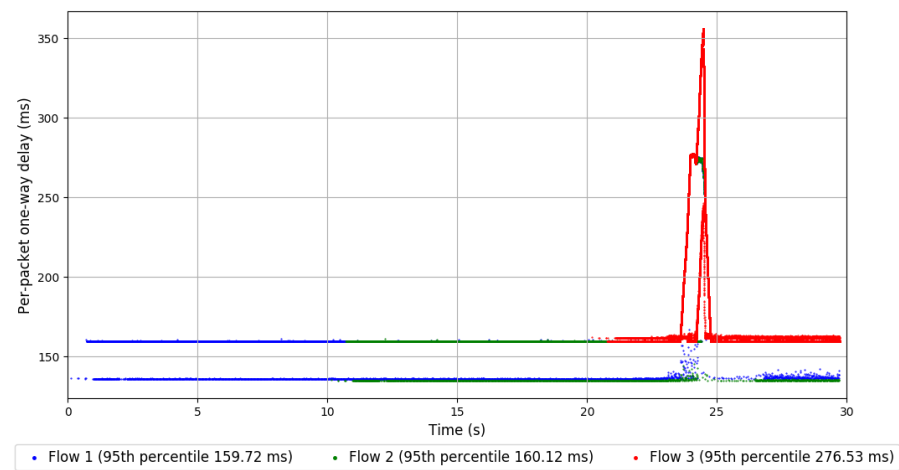
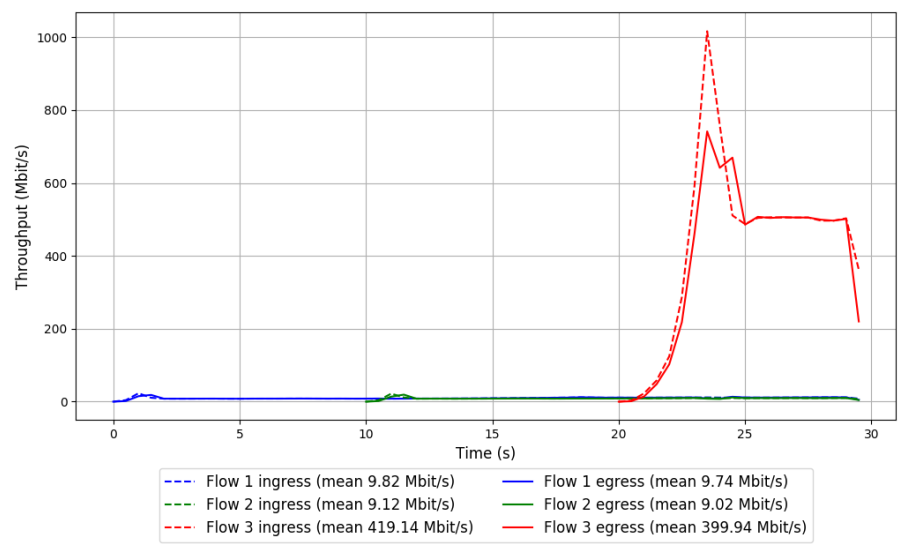
-- Flow 3:

Average throughput: 399.94 Mbit/s

95th percentile per-packet one-way delay: 276.532 ms

Loss rate: 7.48%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-12 18:40:07

End at: 2017-10-12 18:40:37

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 617.63 Mbit/s

95th percentile per-packet one-way delay: 258.102 ms

Loss rate: 4.48%

-- Flow 1:

Average throughput: 440.55 Mbit/s

95th percentile per-packet one-way delay: 258.381 ms

Loss rate: 4.13%

-- Flow 2:

Average throughput: 236.02 Mbit/s

95th percentile per-packet one-way delay: 258.126 ms

Loss rate: 5.56%

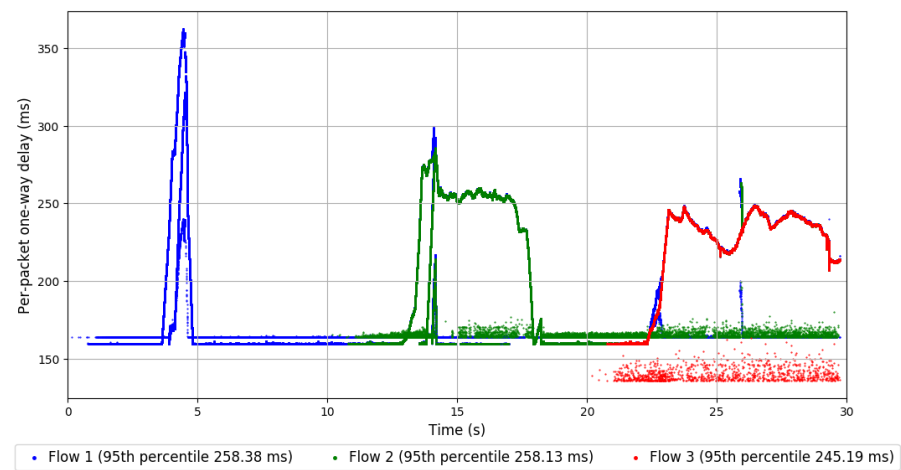
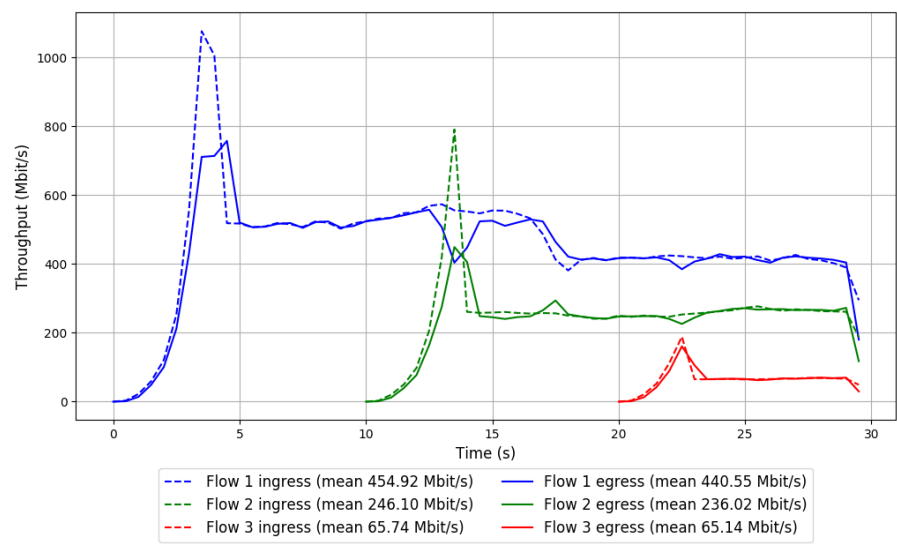
-- Flow 3:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 245.187 ms

Loss rate: 3.69%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-12 18:54:33

End at: 2017-10-12 18:55:03

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 159.716 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 159.720 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 159.715 ms

Loss rate: 1.51%

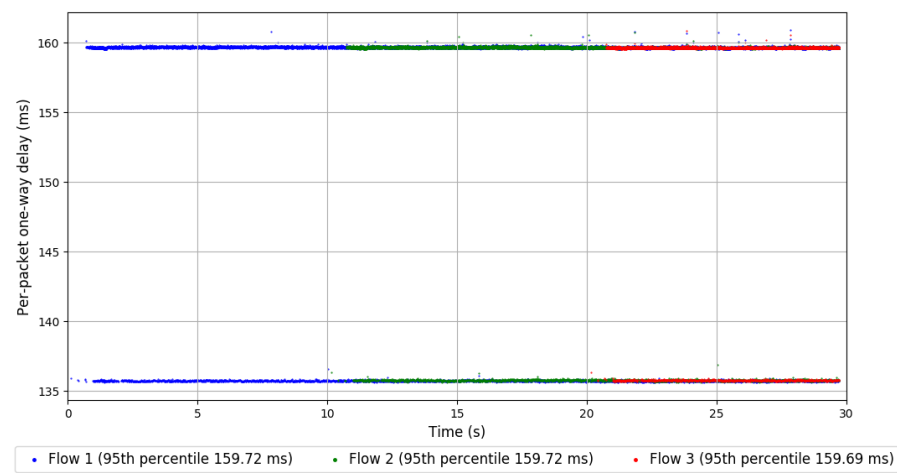
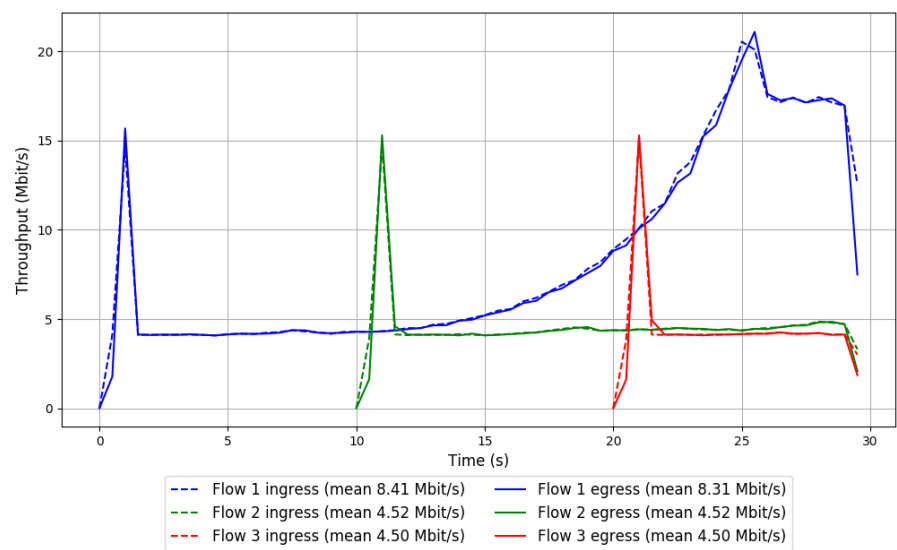
-- Flow 3:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 159.693 ms

Loss rate: 2.81%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-12 19:08:08

End at: 2017-10-12 19:08:38

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.90 Mbit/s

95th percentile per-packet one-way delay: 347.658 ms

Loss rate: 13.42%

-- Flow 1:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 159.801 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 17.06 Mbit/s

95th percentile per-packet one-way delay: 175.213 ms

Loss rate: 2.47%

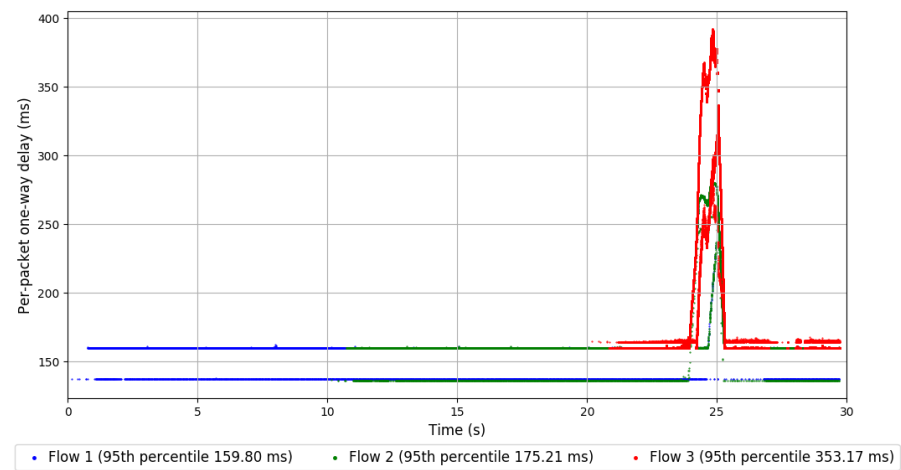
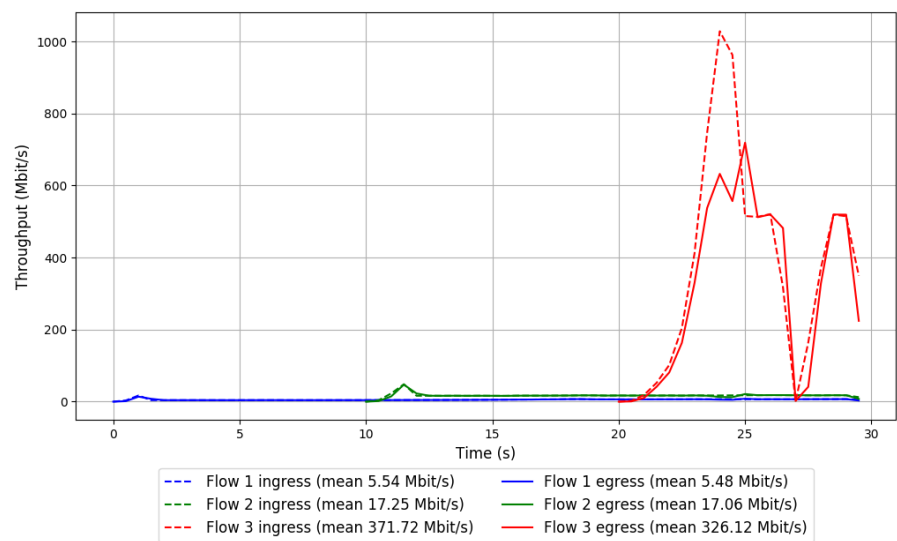
-- Flow 3:

Average throughput: 326.12 Mbit/s

95th percentile per-packet one-way delay: 353.166 ms

Loss rate: 14.97%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-12 19:22:00

End at: 2017-10-12 19:22:30

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.93 Mbit/s

95th percentile per-packet one-way delay: 275.468 ms

Loss rate: 6.57%

-- Flow 1:

Average throughput: 18.45 Mbit/s

95th percentile per-packet one-way delay: 234.391 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 460.89 Mbit/s

95th percentile per-packet one-way delay: 277.802 ms

Loss rate: 6.75%

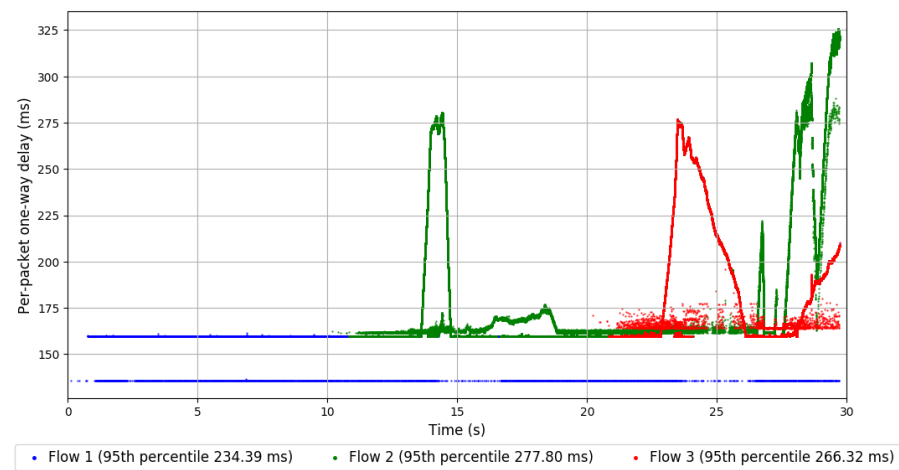
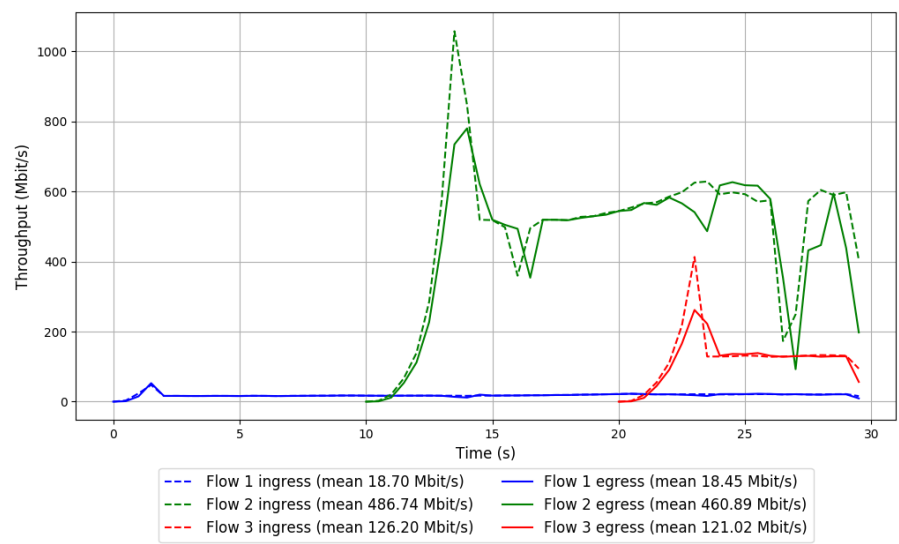
-- Flow 3:

Average throughput: 121.02 Mbit/s

95th percentile per-packet one-way delay: 266.324 ms

Loss rate: 7.11%

Run 9: Report of PCC — Data Link

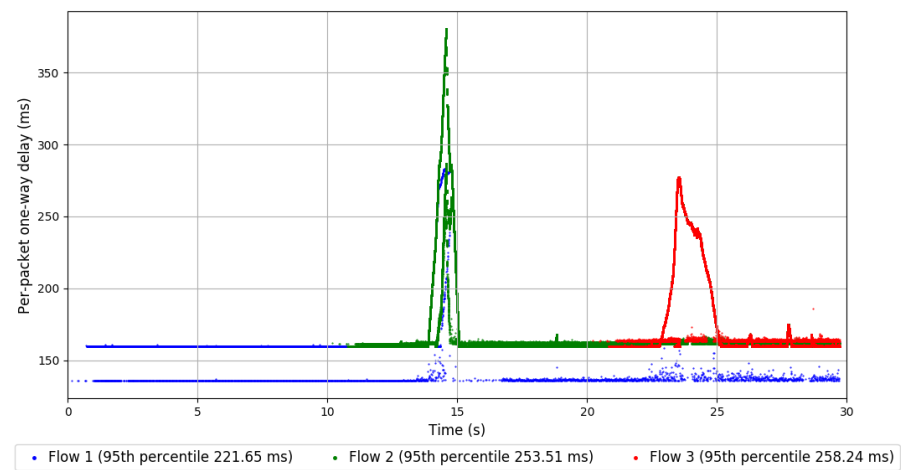
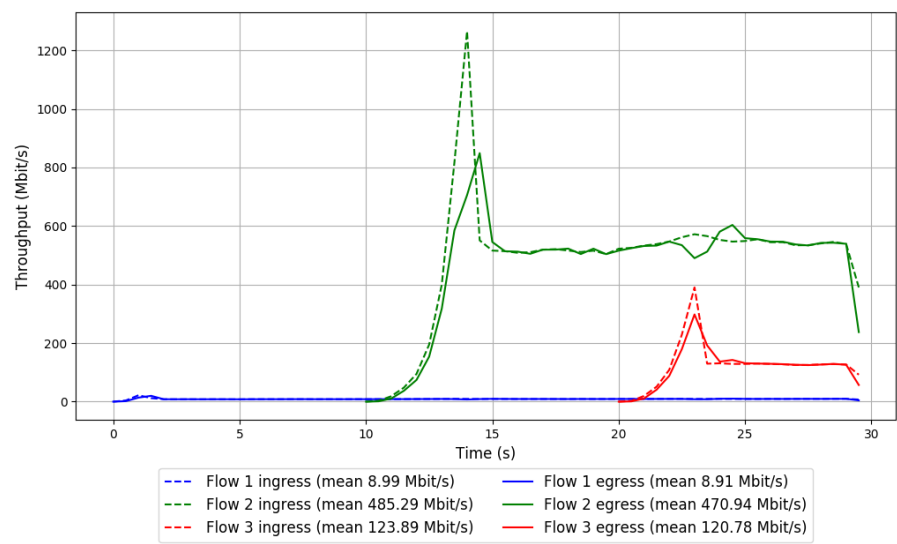


```
Run 10: Statistics of PCC

Start at: 2017-10-12 19:35:44
End at: 2017-10-12 19:36:14

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.88 Mbit/s
95th percentile per-packet one-way delay: 253.641 ms
Loss rate: 4.49%
-- Flow 1:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 221.646 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 470.94 Mbit/s
95th percentile per-packet one-way delay: 253.507 ms
Loss rate: 4.44%
-- Flow 3:
Average throughput: 120.78 Mbit/s
95th percentile per-packet one-way delay: 258.235 ms
Loss rate: 5.51%
```

Run 10: Report of PCC — Data Link

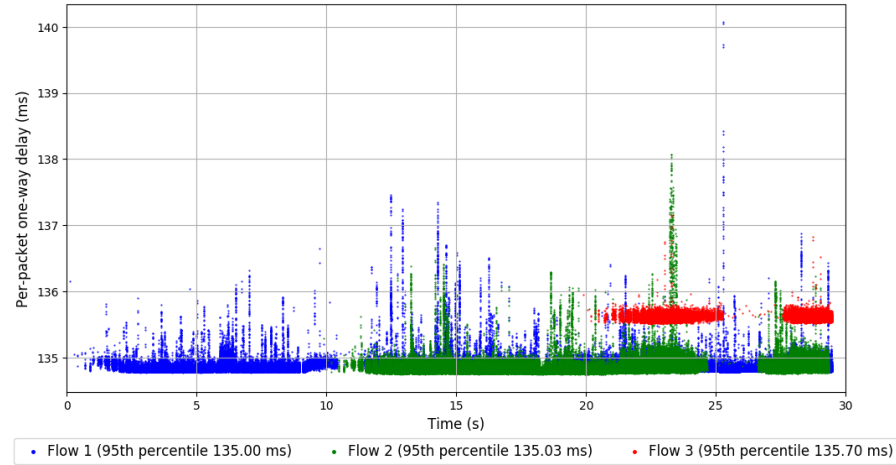
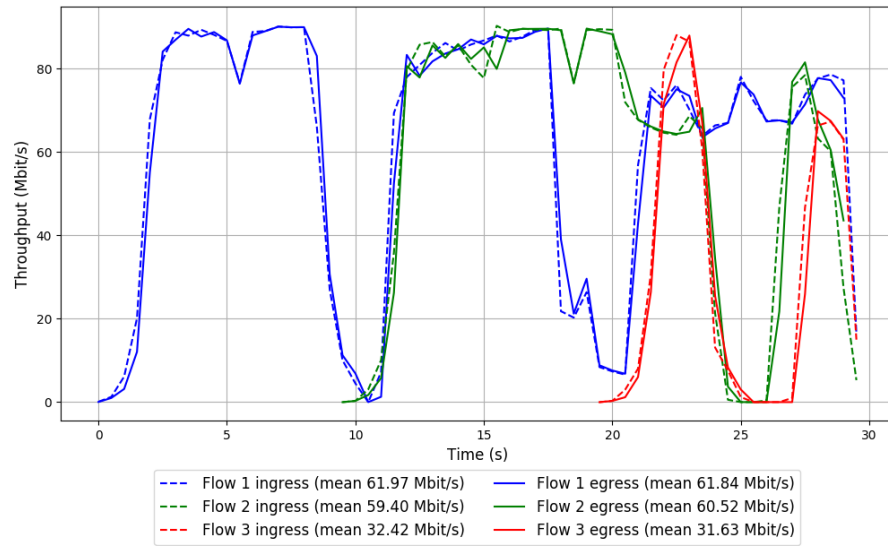


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-12 17:35:30
End at: 2017-10-12 17:36:00

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.27 Mbit/s
95th percentile per-packet one-way delay: 135.609 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 135.005 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 60.52 Mbit/s
95th percentile per-packet one-way delay: 135.032 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.63 Mbit/s
95th percentile per-packet one-way delay: 135.696 ms
Loss rate: 5.17%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-12 17:49:29

End at: 2017-10-12 17:49:59

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.00 Mbit/s

95th percentile per-packet one-way delay: 163.108 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 163.130 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 67.26 Mbit/s

95th percentile per-packet one-way delay: 135.665 ms

Loss rate: 1.60%

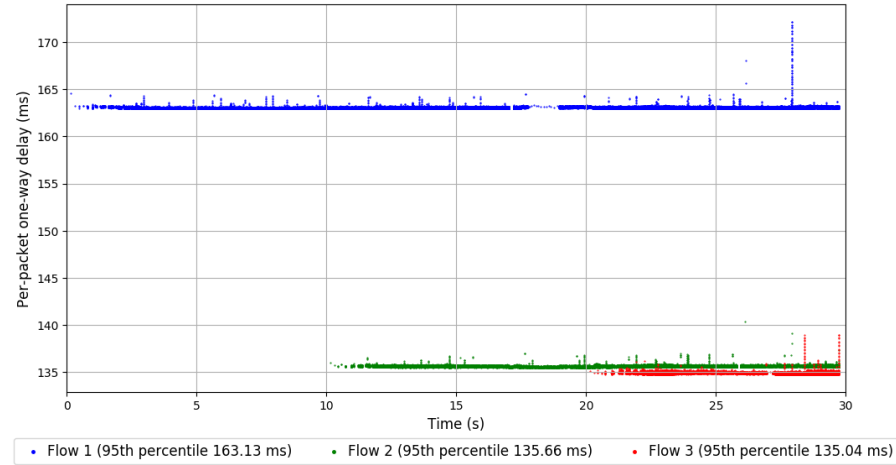
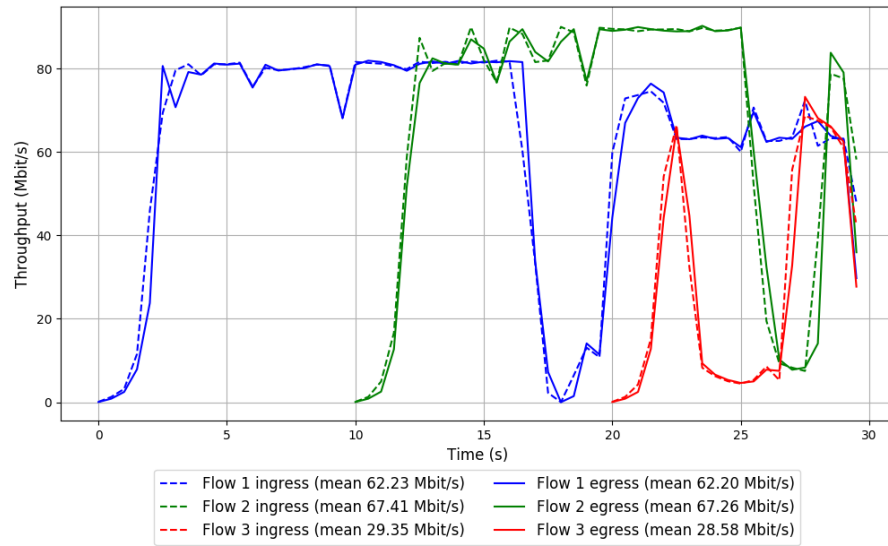
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 135.038 ms

Loss rate: 5.36%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-12 18:03:03

End at: 2017-10-12 18:03:33

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.96 Mbit/s

95th percentile per-packet one-way delay: 161.717 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 61.45 Mbit/s

95th percentile per-packet one-way delay: 136.039 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 134.952 ms

Loss rate: 1.57%

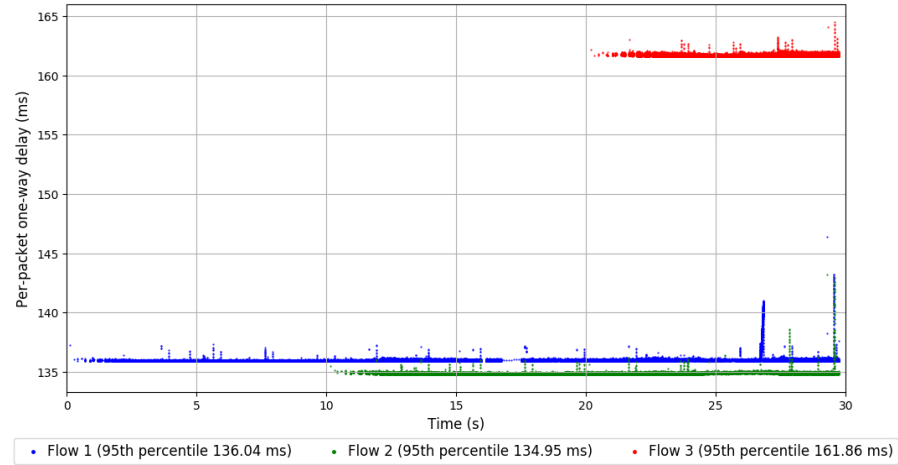
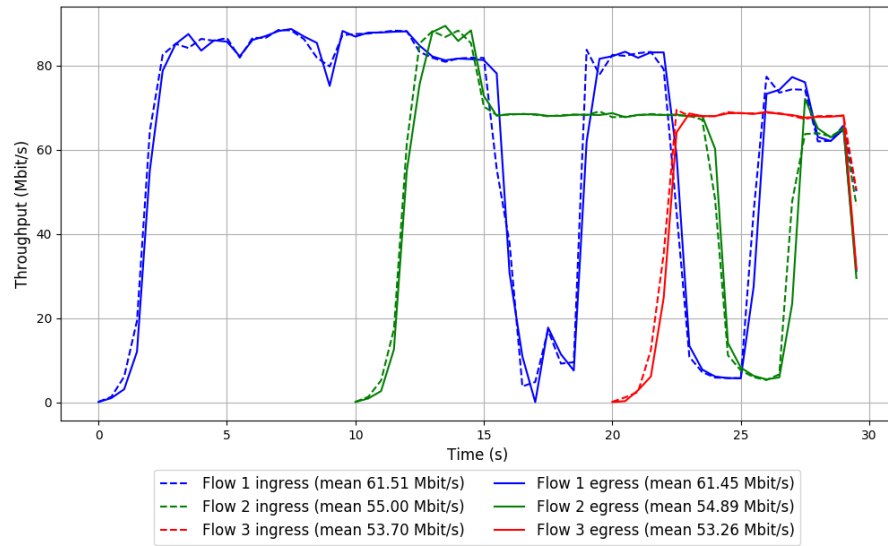
-- Flow 3:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 161.864 ms

Loss rate: 3.84%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-12 18:16:34

End at: 2017-10-12 18:17:04

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.59 Mbit/s

95th percentile per-packet one-way delay: 161.952 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 161.972 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 135.020 ms

Loss rate: 0.17%

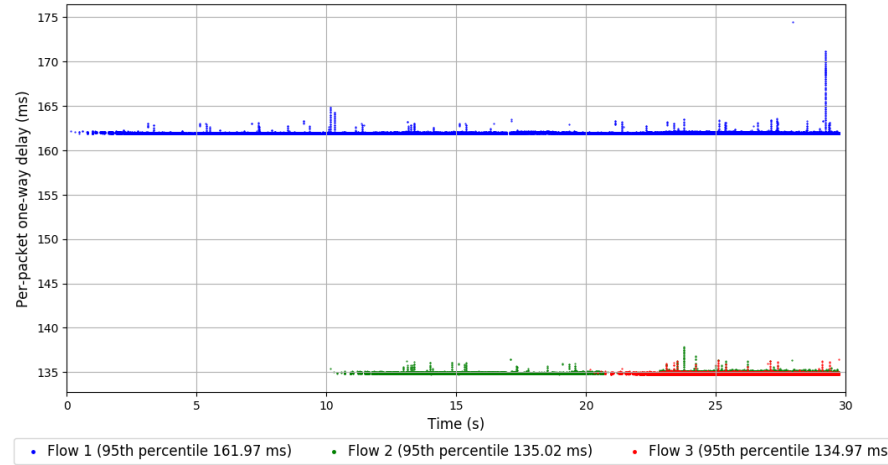
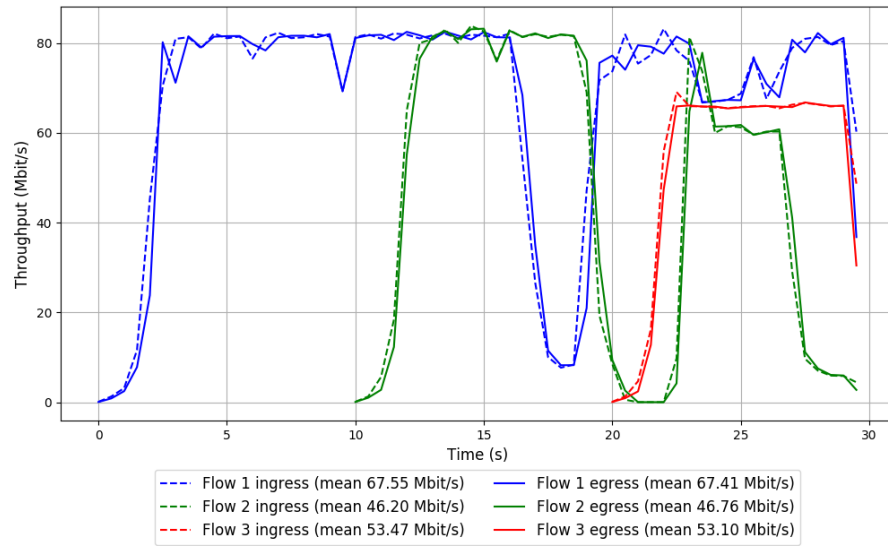
-- Flow 3:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 134.966 ms

Loss rate: 3.42%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-12 18:30:28

End at: 2017-10-12 18:30:58

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.61 Mbit/s

95th percentile per-packet one-way delay: 135.999 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 60.08 Mbit/s

95th percentile per-packet one-way delay: 135.883 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 136.030 ms

Loss rate: 1.62%

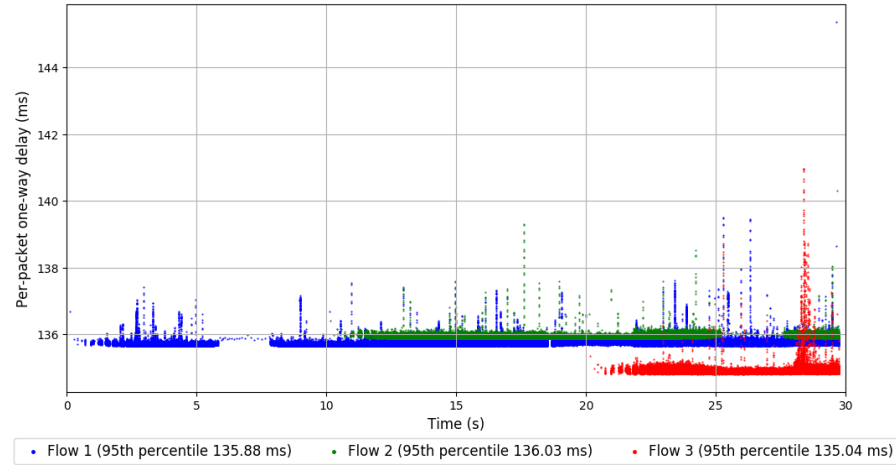
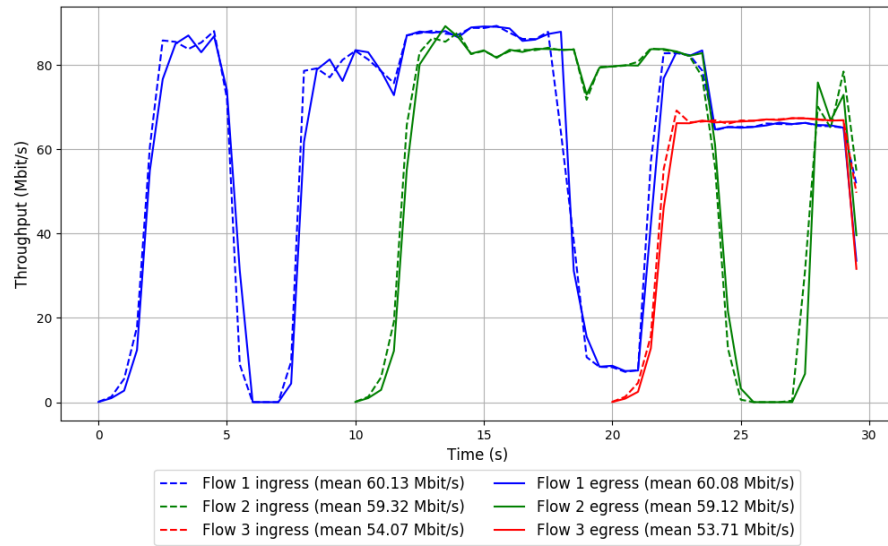
-- Flow 3:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 135.037 ms

Loss rate: 3.40%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-12 18:44:12

End at: 2017-10-12 18:44:42

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.74 Mbit/s

95th percentile per-packet one-way delay: 161.819 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 161.828 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 61.98 Mbit/s

95th percentile per-packet one-way delay: 161.815 ms

Loss rate: 1.61%

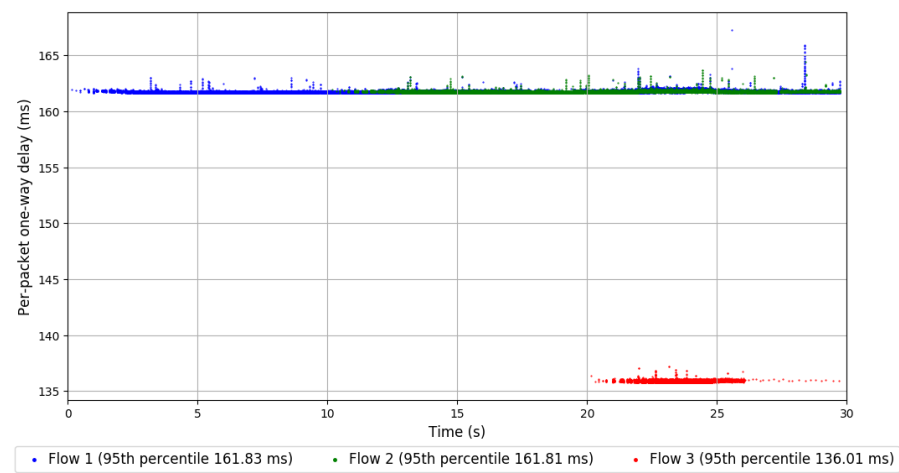
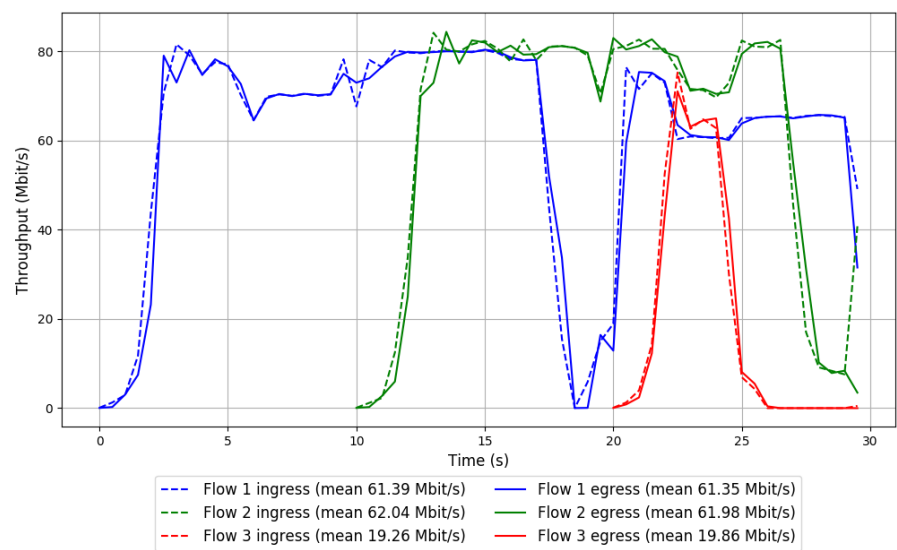
-- Flow 3:

Average throughput: 19.86 Mbit/s

95th percentile per-packet one-way delay: 136.009 ms

Loss rate: 0.13%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-12 18:58:20

End at: 2017-10-12 18:58:50

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.98 Mbit/s

95th percentile per-packet one-way delay: 136.865 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 64.70 Mbit/s

95th percentile per-packet one-way delay: 136.150 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 136.944 ms

Loss rate: 0.16%

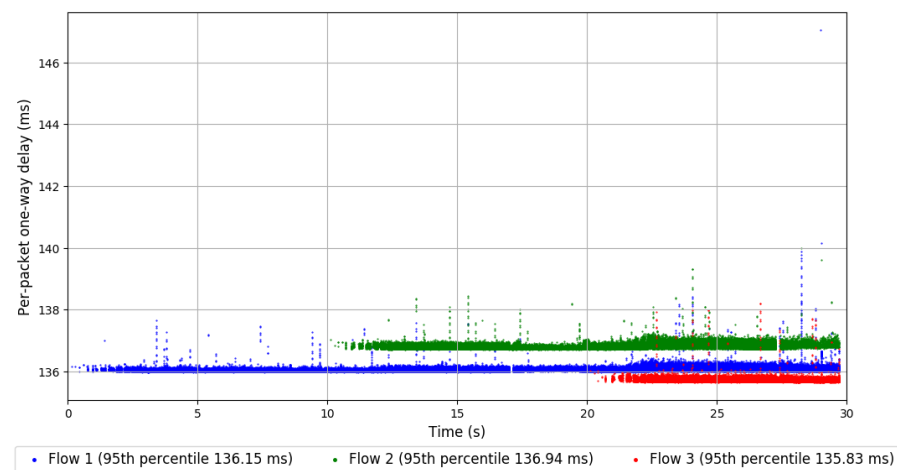
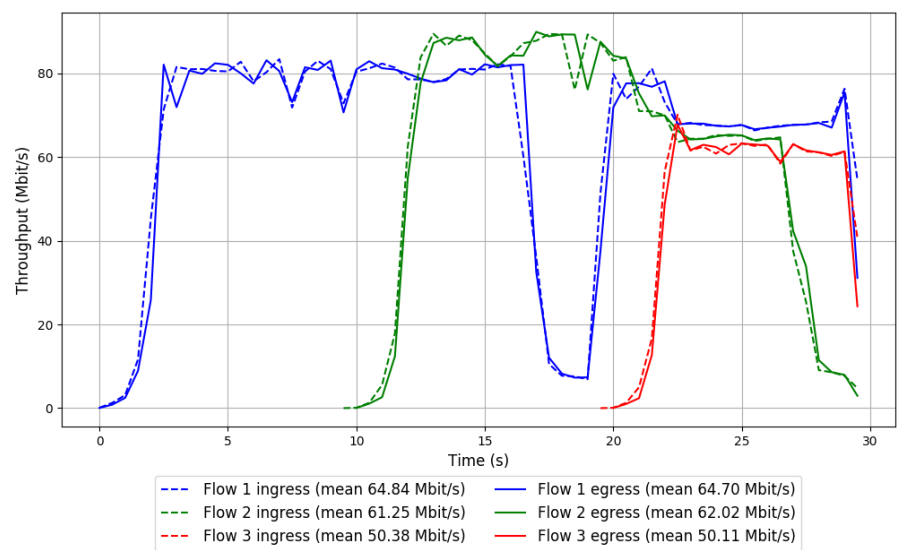
-- Flow 3:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 135.829 ms

Loss rate: 3.29%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-12 19:11:53

End at: 2017-10-12 19:12:23

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.39 Mbit/s

95th percentile per-packet one-way delay: 136.483 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 61.45 Mbit/s

95th percentile per-packet one-way delay: 135.844 ms

Loss rate: 0.11%

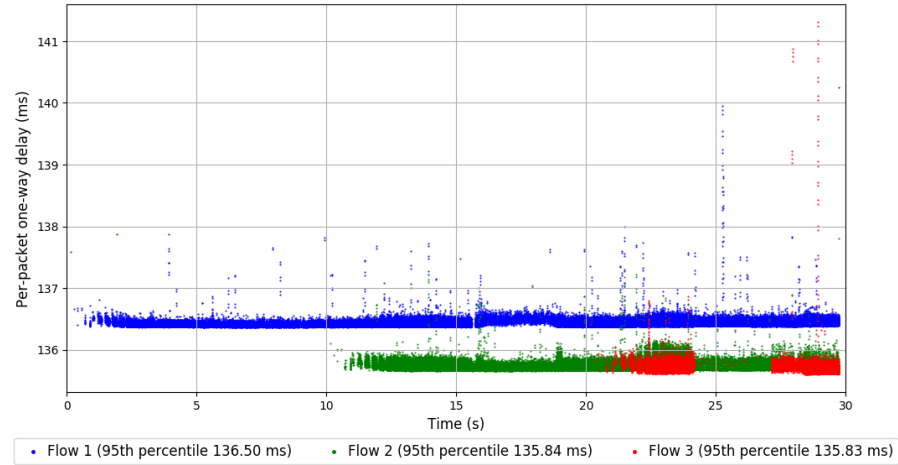
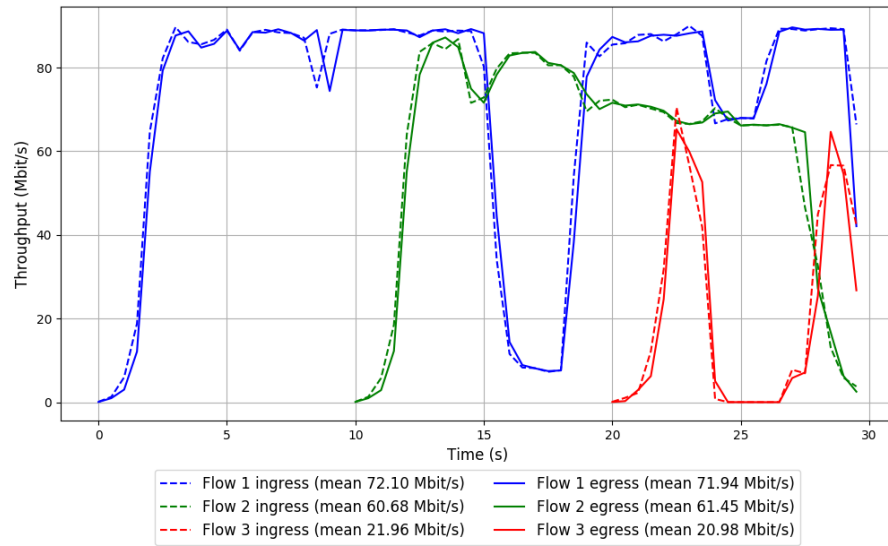
-- Flow 3:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 135.833 ms

Loss rate: 7.16%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-12 19:25:56

End at: 2017-10-12 19:26:26

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.38 Mbit/s

95th percentile per-packet one-way delay: 136.900 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 136.073 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 135.327 ms

Loss rate: 1.49%

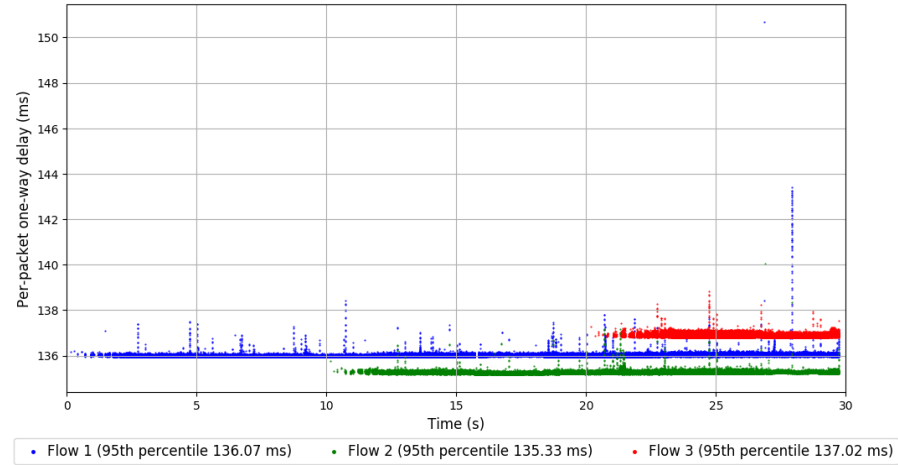
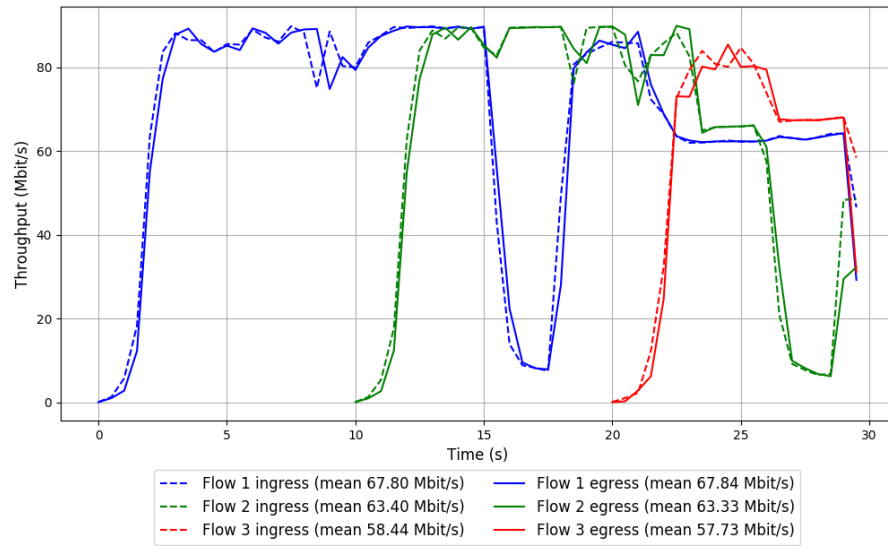
-- Flow 3:

Average throughput: 57.73 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 4.01%

Run 9: Report of QUIC Cubic — Data Link

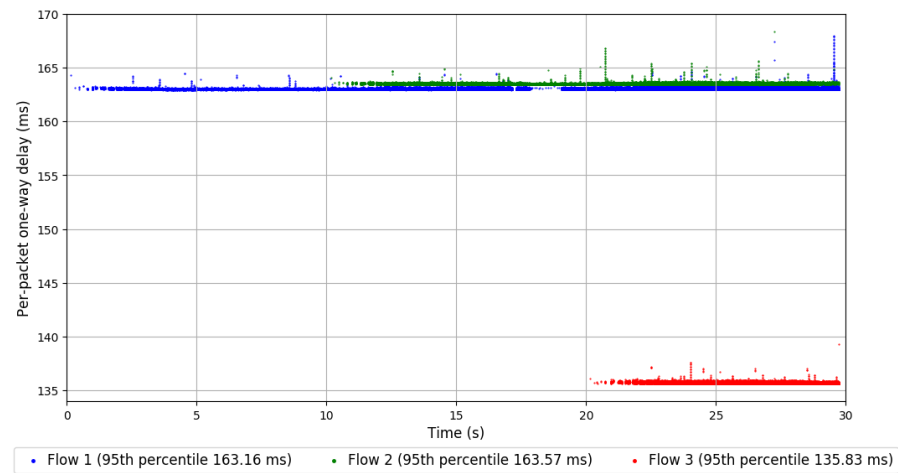
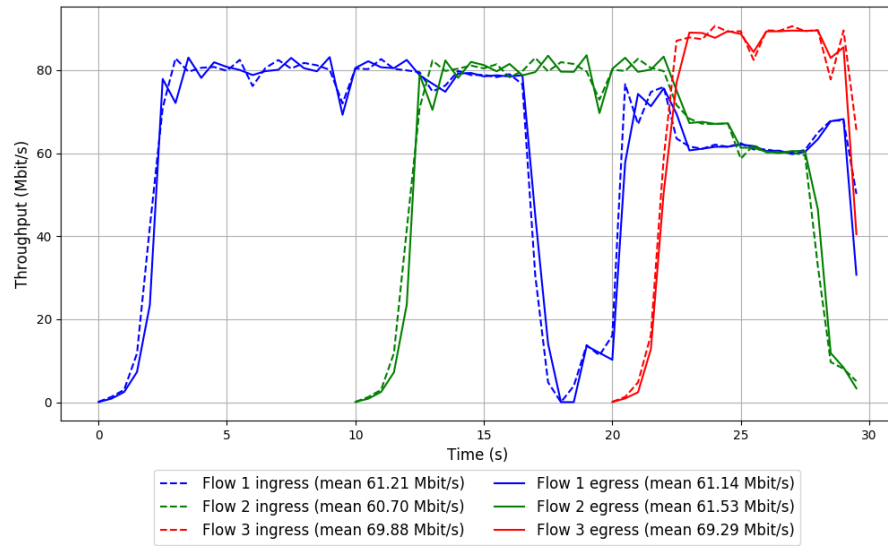


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-12 19:39:40
End at: 2017-10-12 19:40:10

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.30 Mbit/s
95th percentile per-packet one-way delay: 163.529 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 61.14 Mbit/s
95th percentile per-packet one-way delay: 163.162 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 163.571 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 69.29 Mbit/s
95th percentile per-packet one-way delay: 135.834 ms
Loss rate: 3.55%
```

Run 10: Report of QUIC Cubic — Data Link

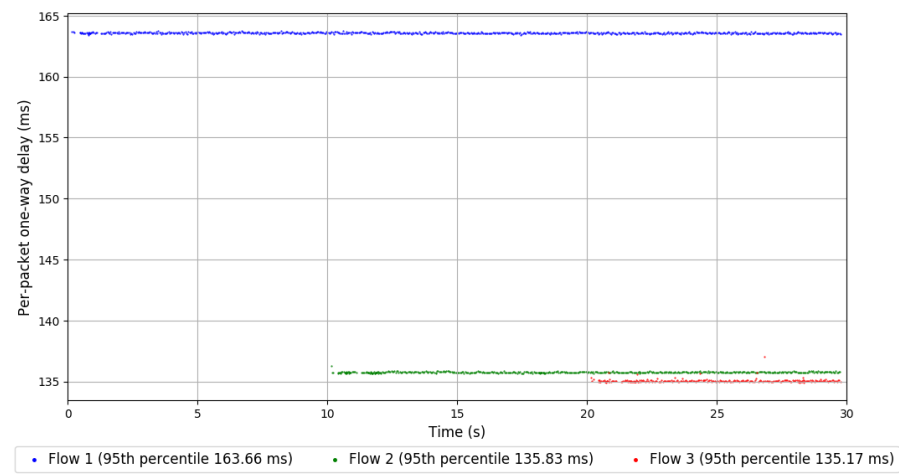
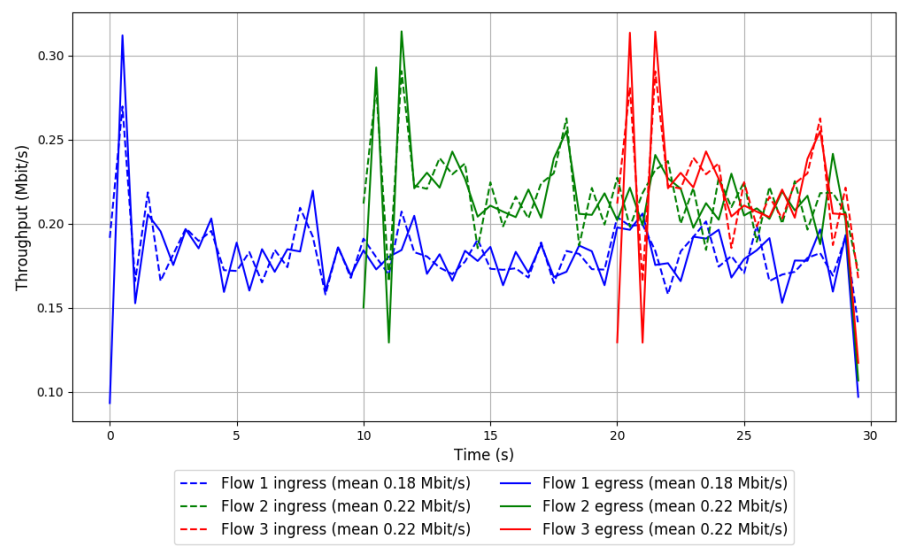


```
Run 1: Statistics of SCReAM

Start at: 2017-10-12 17:43:46
End at: 2017-10-12 17:44:16

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 163.644 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.664 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.827 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.169 ms
Loss rate: 2.63%
```

Run 1: Report of SReAM — Data Link

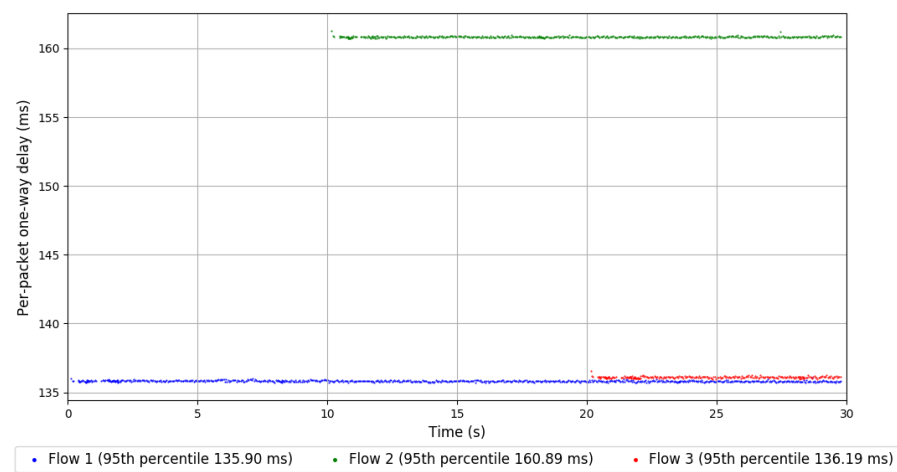
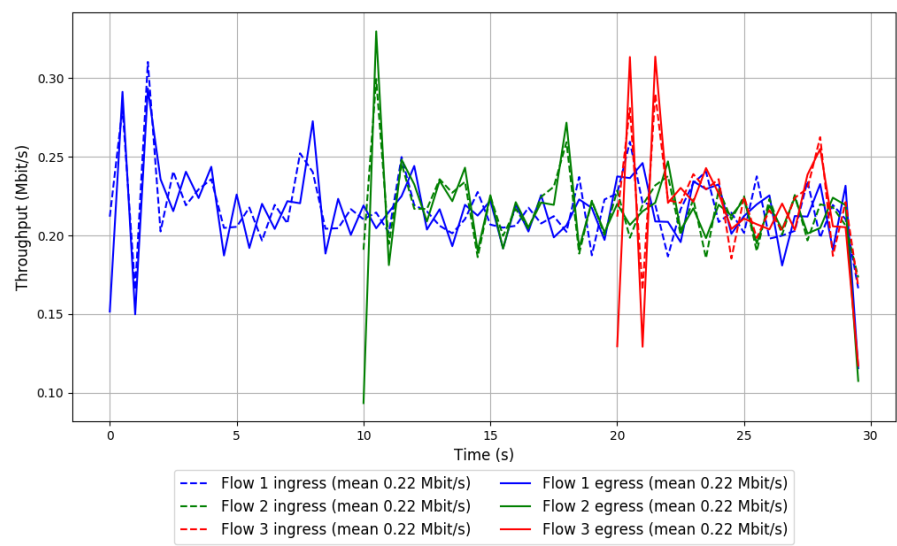


```
Run 2: Statistics of SReAM

Start at: 2017-10-12 17:57:06
End at: 2017-10-12 17:57:36

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 160.861 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.902 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.894 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.186 ms
Loss rate: 2.63%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-10-12 18:10:51

End at: 2017-10-12 18:11:21

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 162.450 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.639 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.084 ms

Loss rate: 1.42%

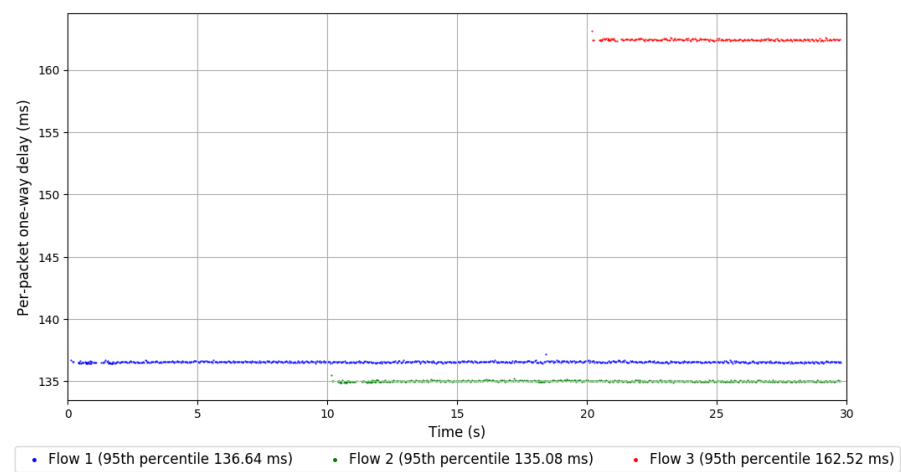
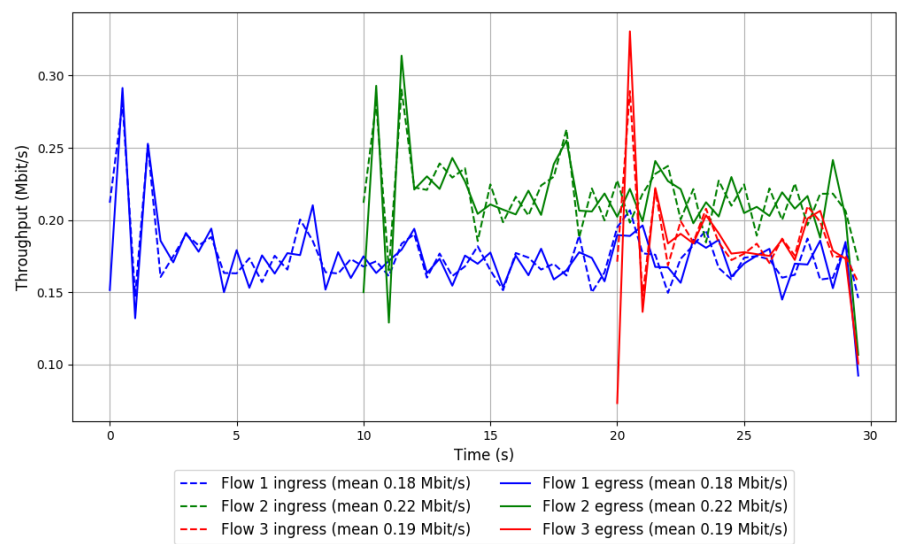
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 162.516 ms

Loss rate: 3.03%

Run 3: Report of SReAM — Data Link

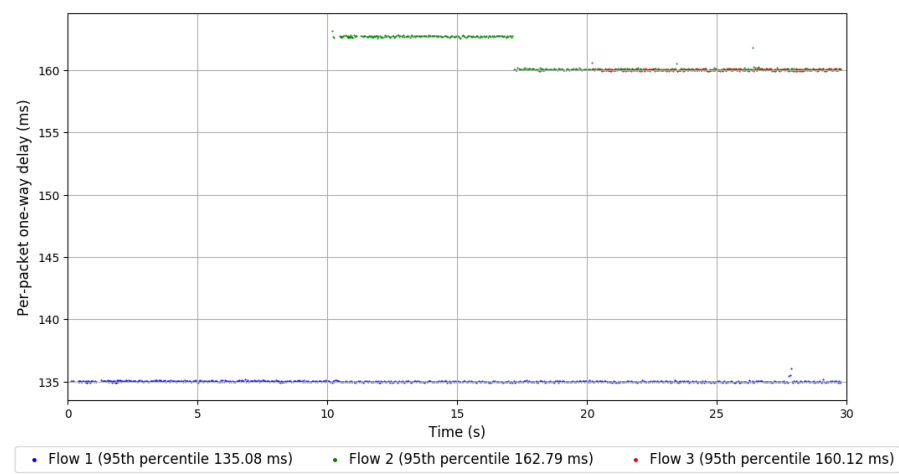
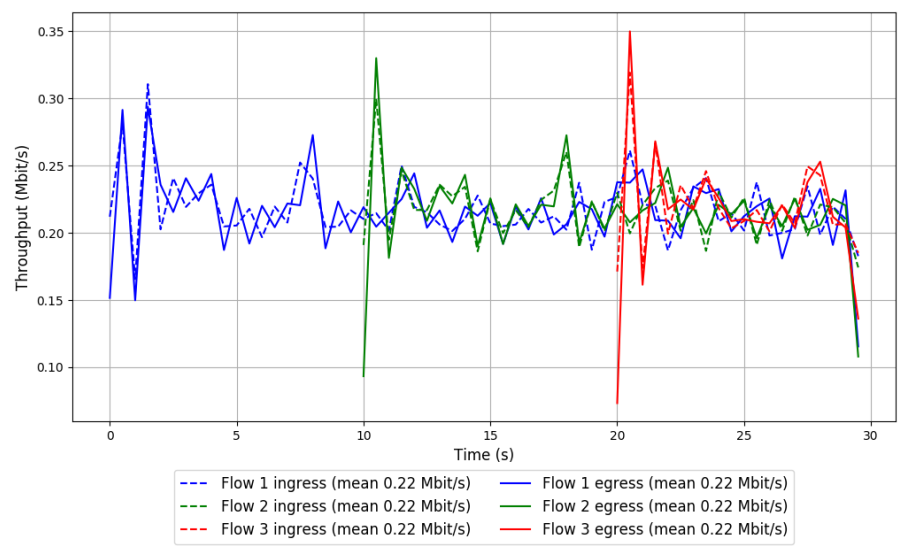


```
Run 4: Statistics of SCReAM

Start at: 2017-10-12 18:24:35
End at: 2017-10-12 18:25:05

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 162.751 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.079 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.791 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.121 ms
Loss rate: 2.66%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-10-12 18:38:11

End at: 2017-10-12 18:38:41

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 164.089 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.663 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.119 ms

Loss rate: 1.43%

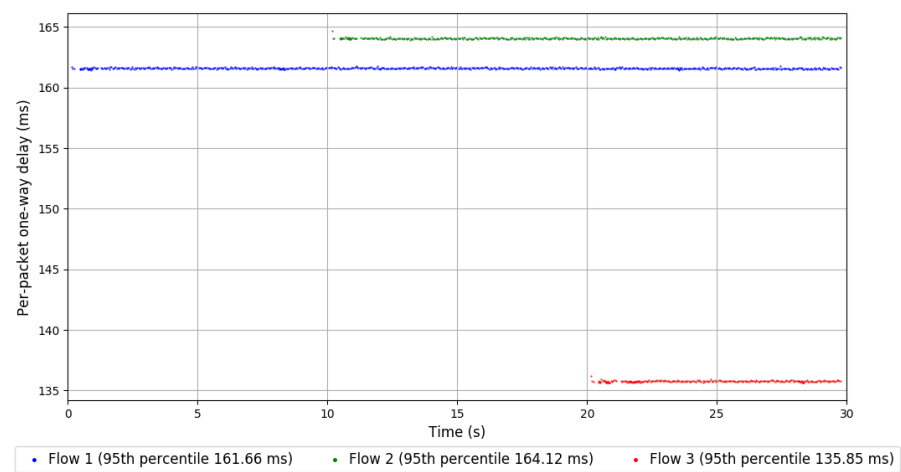
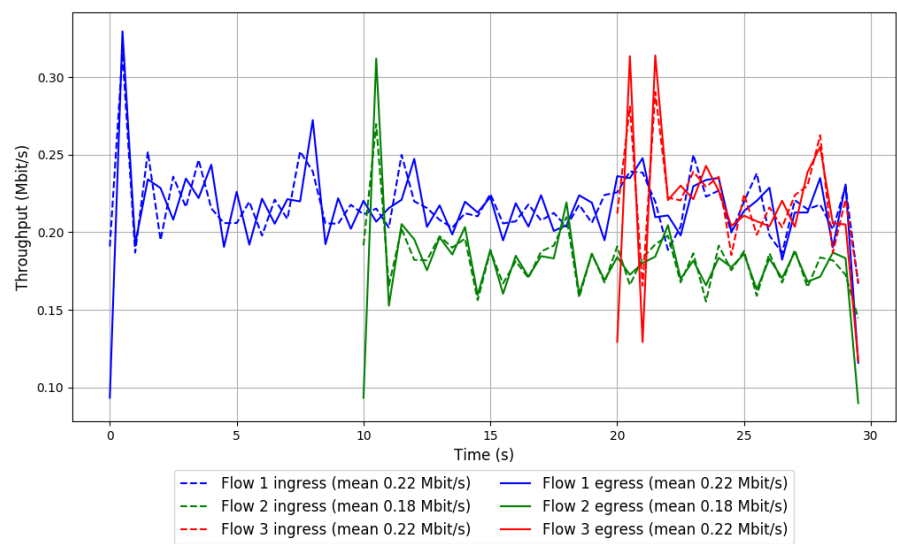
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.848 ms

Loss rate: 2.63%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-10-12 18:52:34

End at: 2017-10-12 18:53:04

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 161.943 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 160.153 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.887 ms

Loss rate: 1.42%

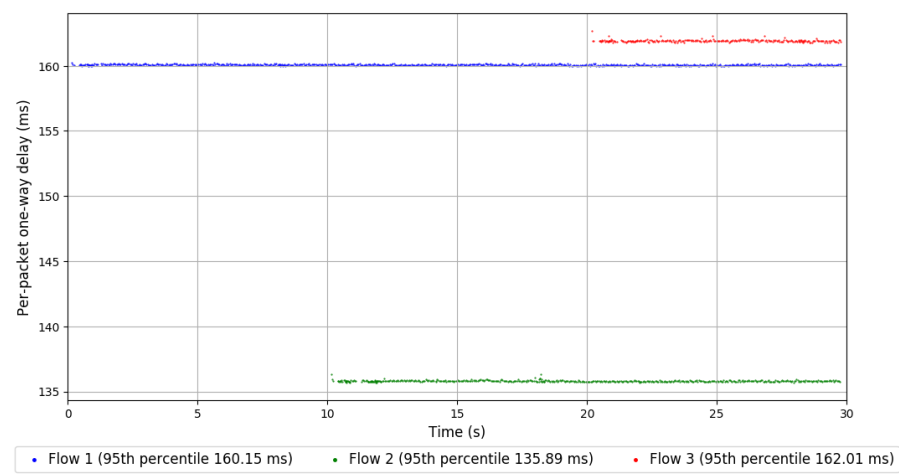
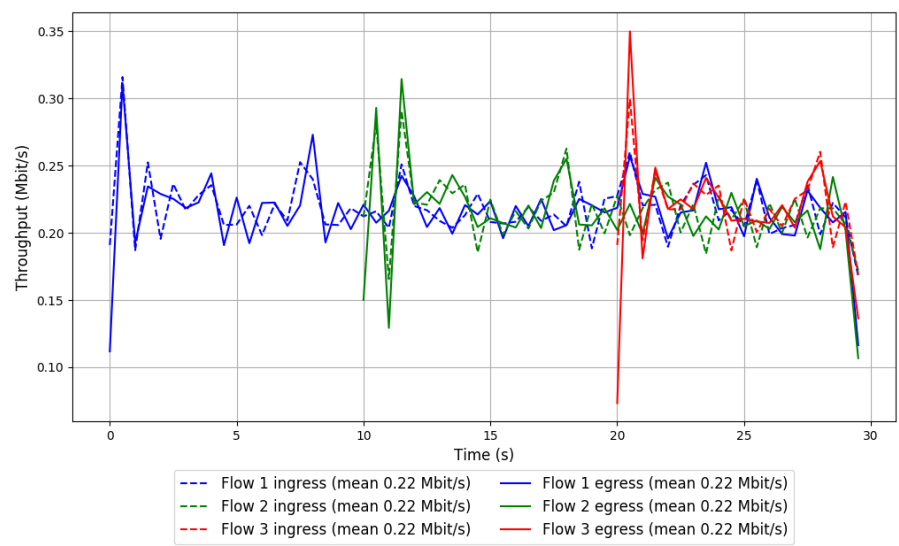
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 162.009 ms

Loss rate: 2.66%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-10-12 19:06:01

End at: 2017-10-12 19:06:31

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 164.086 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 163.113 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.913 ms

Loss rate: 1.42%

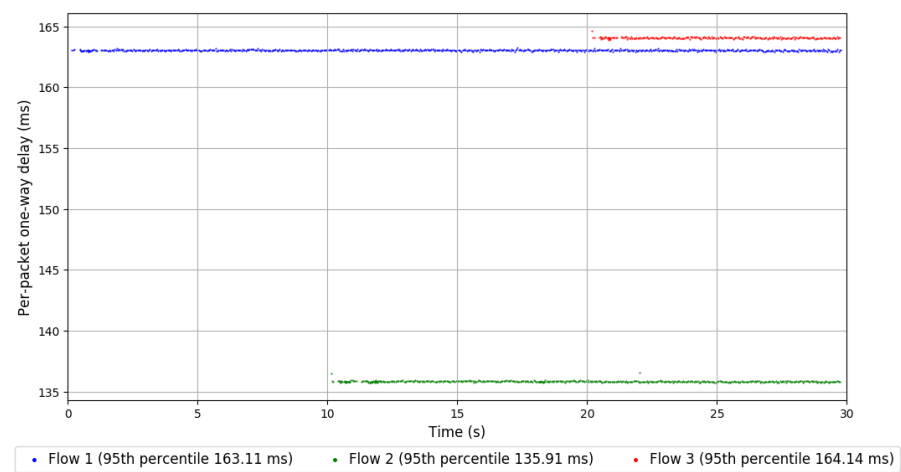
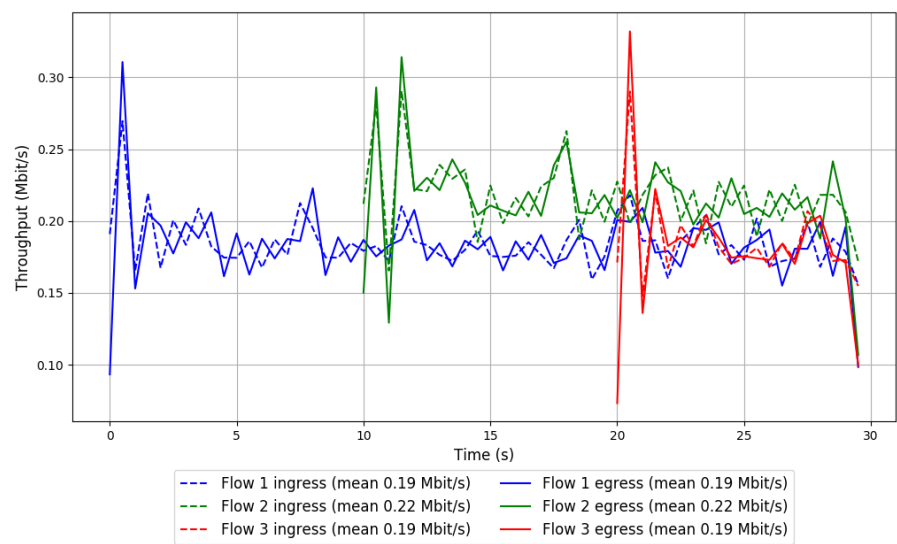
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 164.140 ms

Loss rate: 3.02%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-10-12 19:19:57

End at: 2017-10-12 19:20:27

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.659 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.879 ms

Loss rate: 1.44%

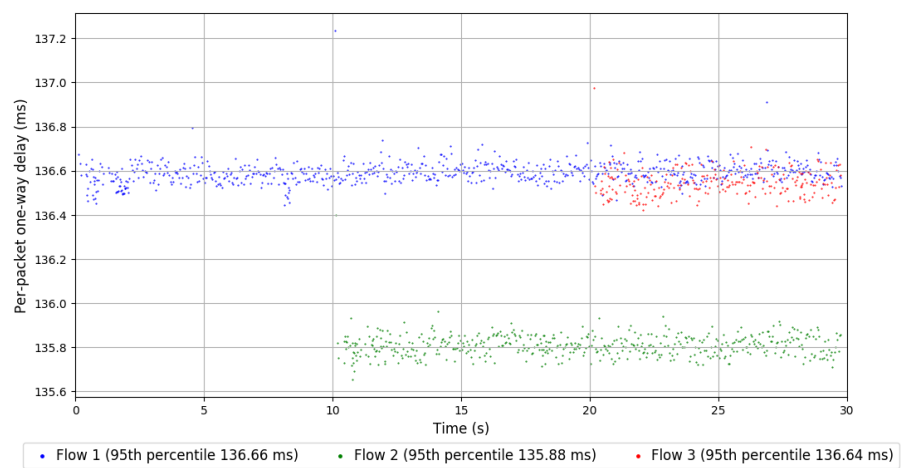
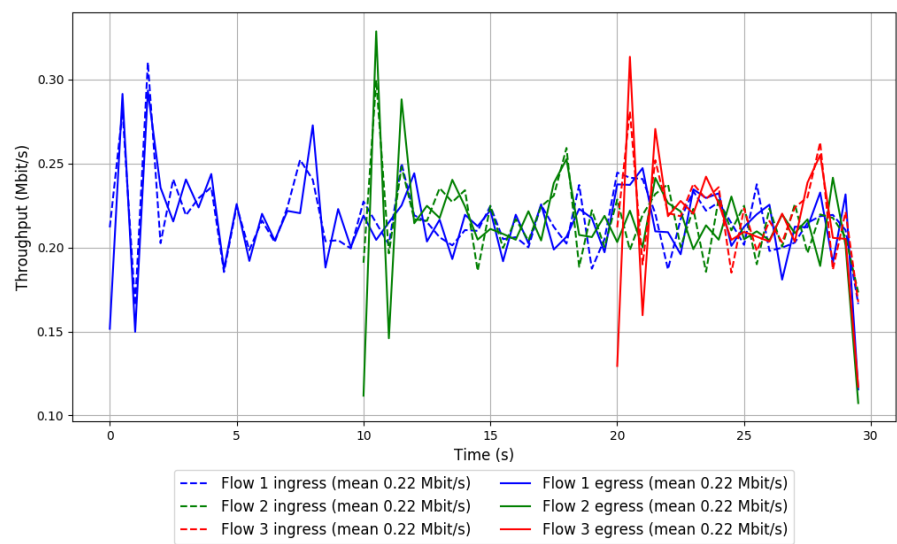
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.637 ms

Loss rate: 2.65%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-10-12 19:33:41

End at: 2017-10-12 19:34:11

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.332 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.357 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.597 ms

Loss rate: 1.42%

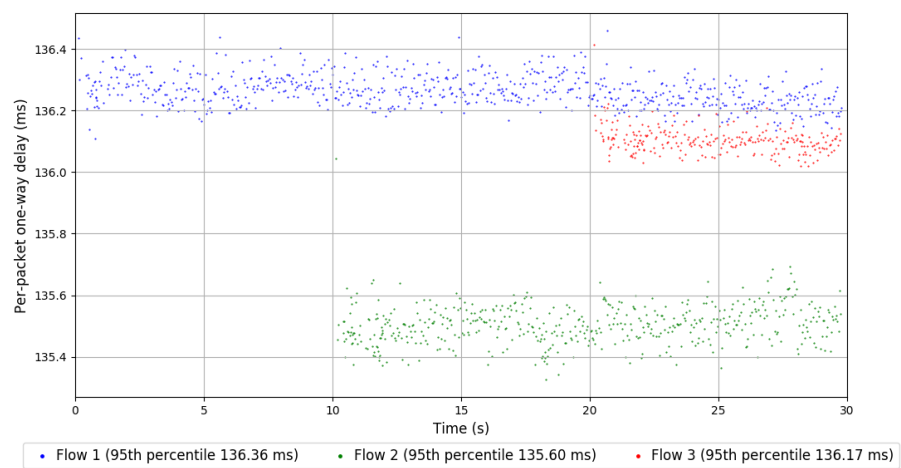
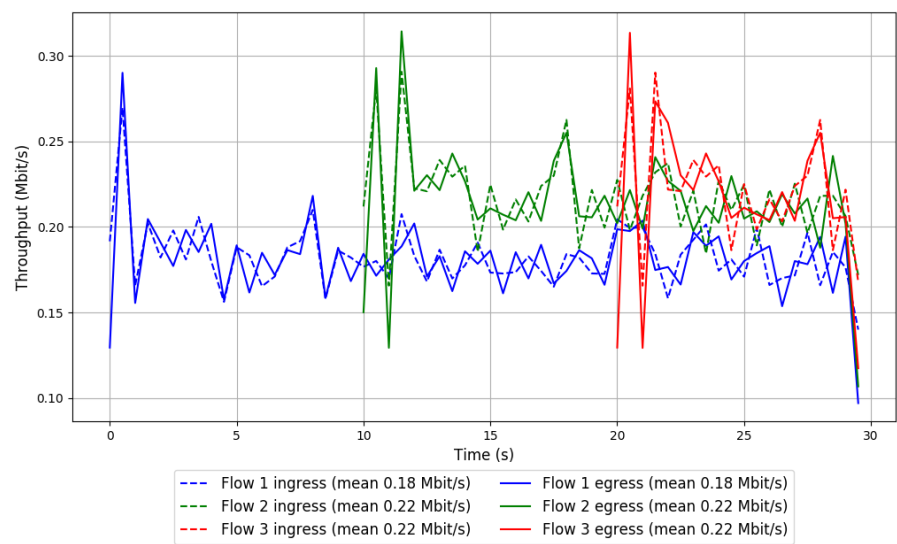
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.170 ms

Loss rate: 2.64%

Run 9: Report of SReAM — Data Link

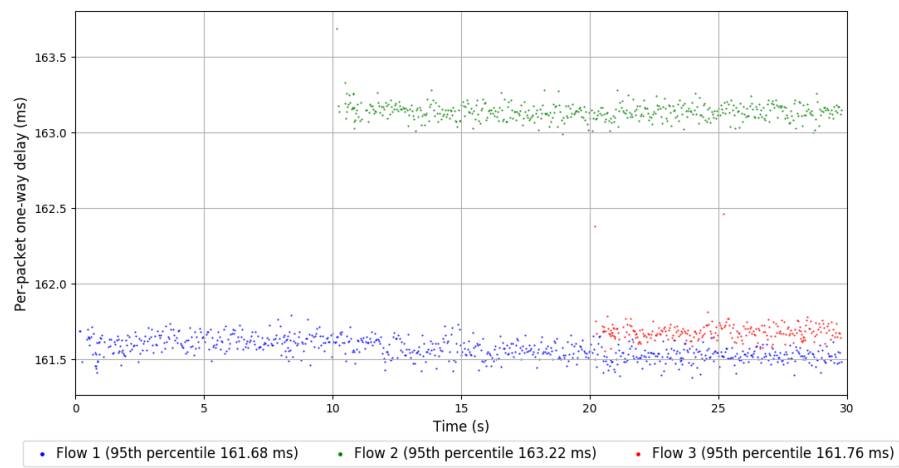
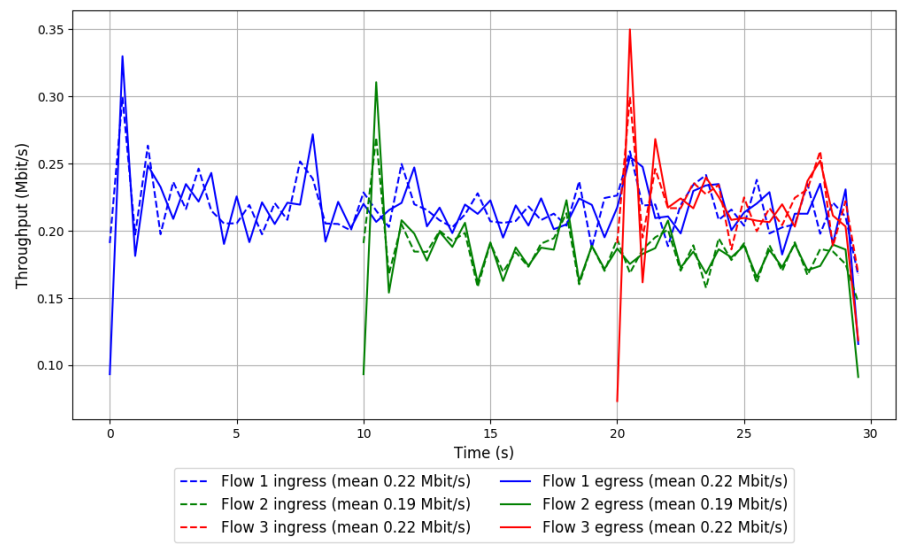


```
Run 10: Statistics of SReAM

Start at: 2017-10-12 19:47:30
End at: 2017-10-12 19:48:00

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 163.186 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 161.683 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.216 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 161.757 ms
Loss rate: 3.06%
```

Run 10: Report of SReAM — Data Link

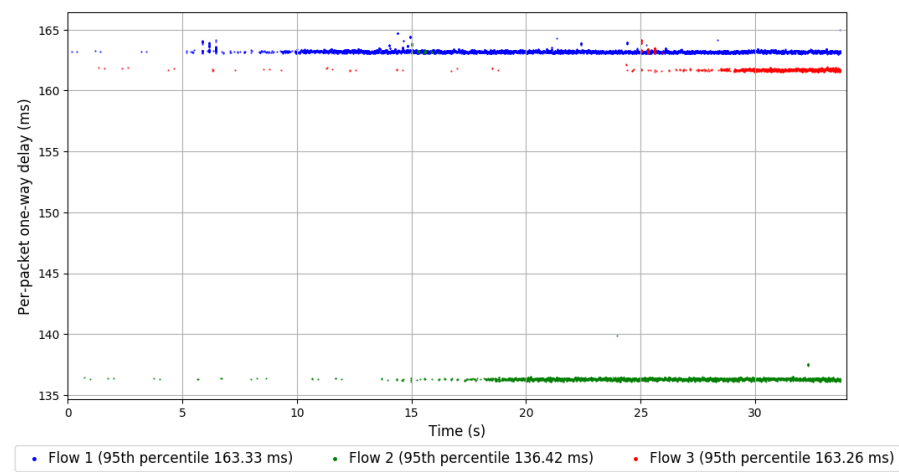
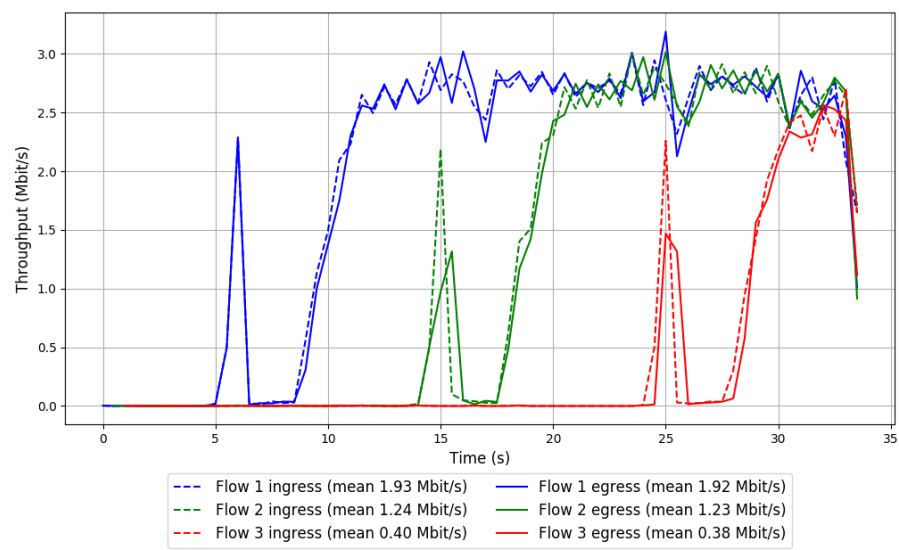


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-12 17:37:43
End at: 2017-10-12 17:38:13

# Below is generated by plot.py at 2017-10-12 22:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 163.305 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 163.332 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.423 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 163.260 ms
Loss rate: 5.45%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-12 17:51:29

End at: 2017-10-12 17:51:59

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 163.574 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 135.210 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 1.78%

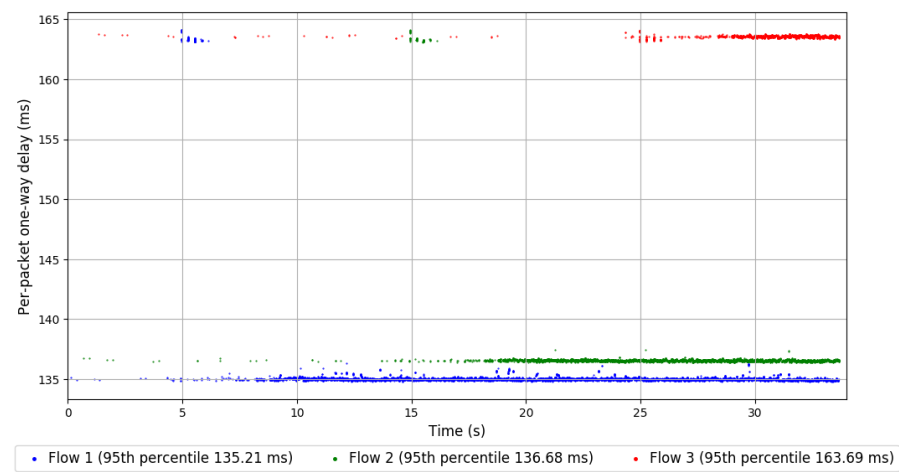
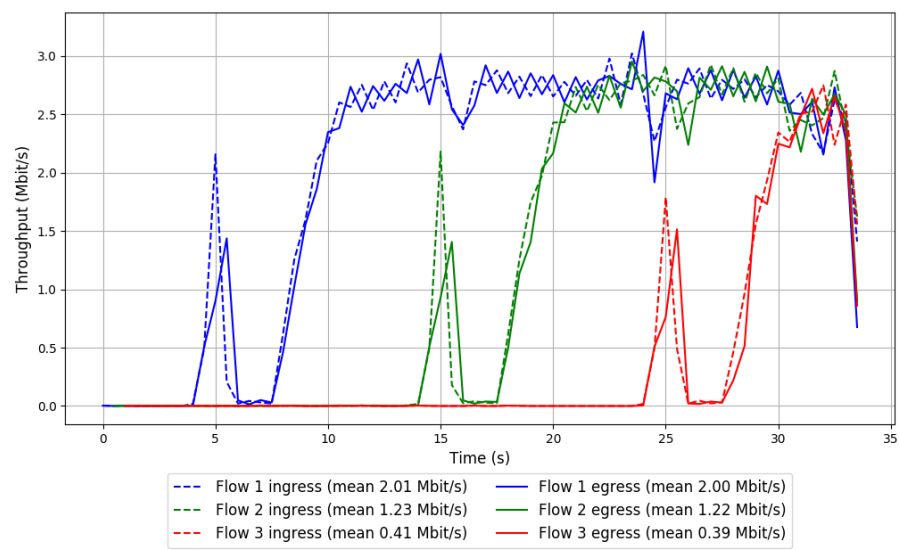
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 163.693 ms

Loss rate: 5.84%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-12 18:05:16

End at: 2017-10-12 18:05:46

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 163.020 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 163.042 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 160.608 ms

Loss rate: 2.08%

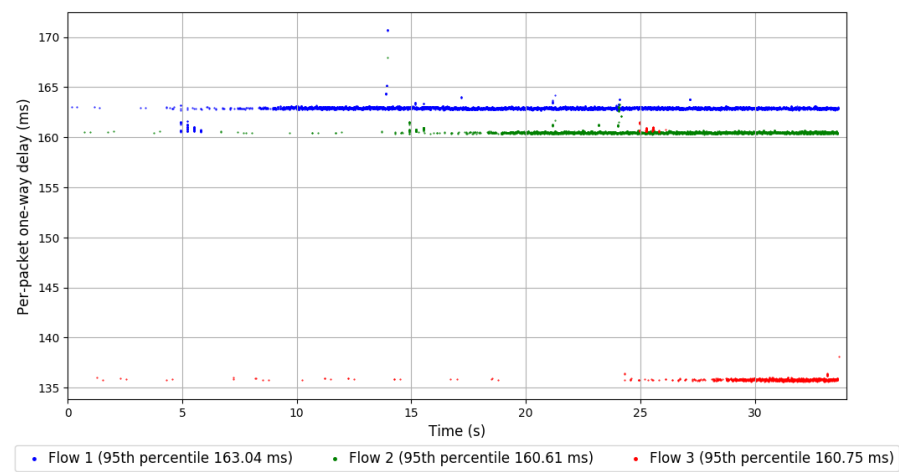
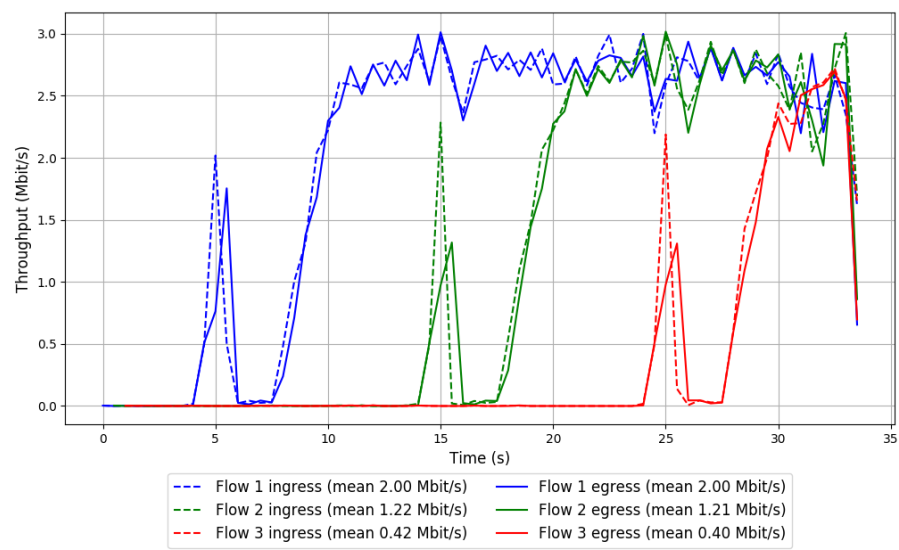
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 160.747 ms

Loss rate: 5.85%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-12 18:18:44

End at: 2017-10-12 18:19:14

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 135.814 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 135.187 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 135.113 ms

Loss rate: 1.76%

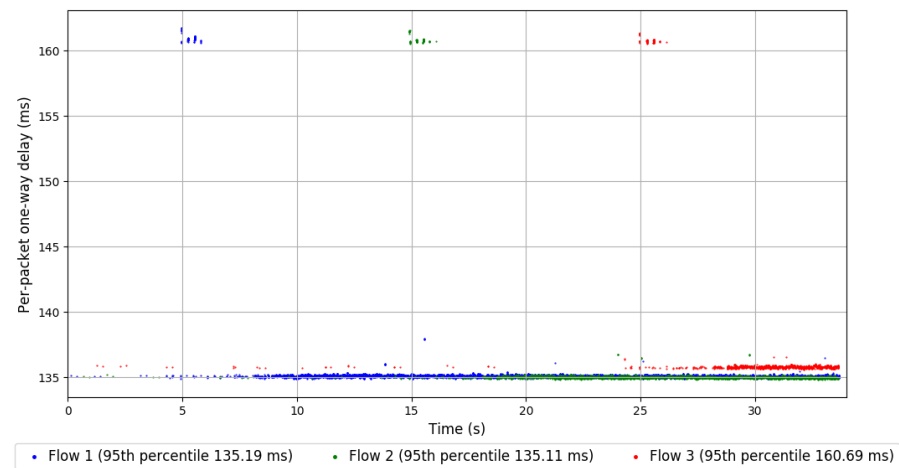
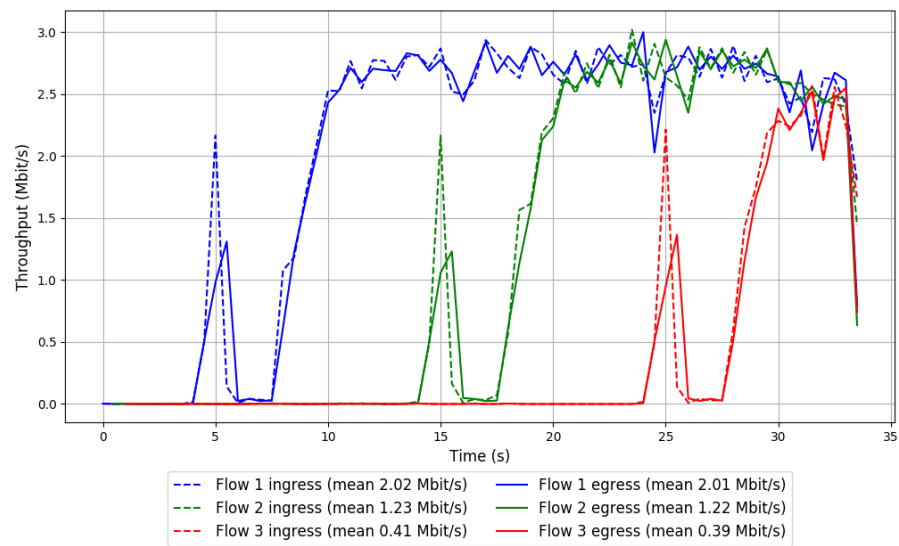
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 160.686 ms

Loss rate: 5.12%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-12 18:32:35

End at: 2017-10-12 18:33:05

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 161.539 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 135.898 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 161.562 ms

Loss rate: 1.72%

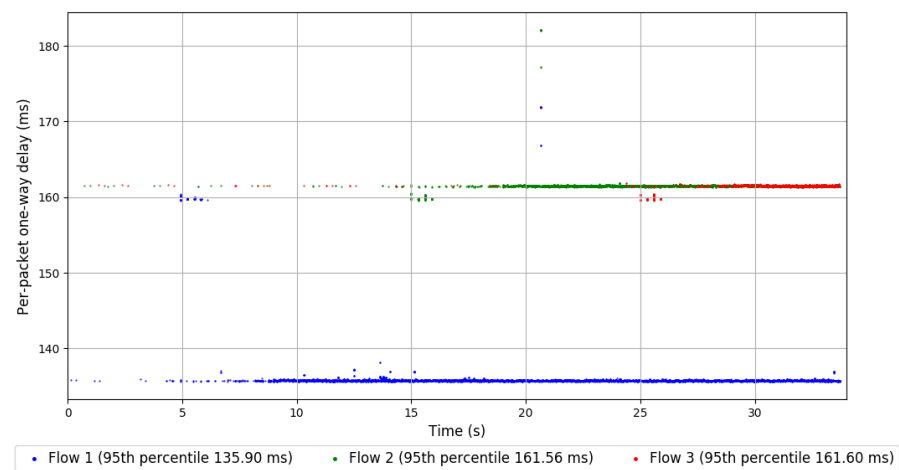
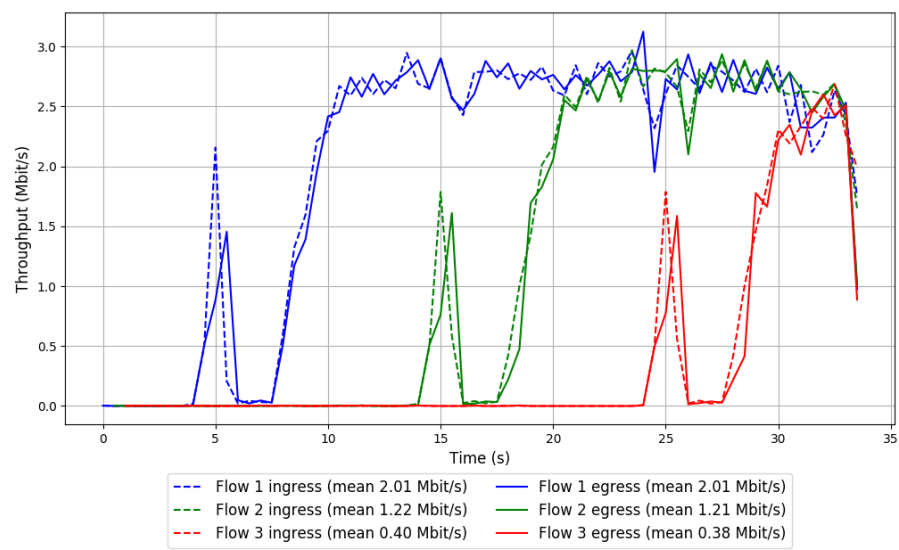
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 161.598 ms

Loss rate: 6.68%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-12 18:46:10

End at: 2017-10-12 18:46:40

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 164.040 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 161.612 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 164.087 ms

Loss rate: 1.65%

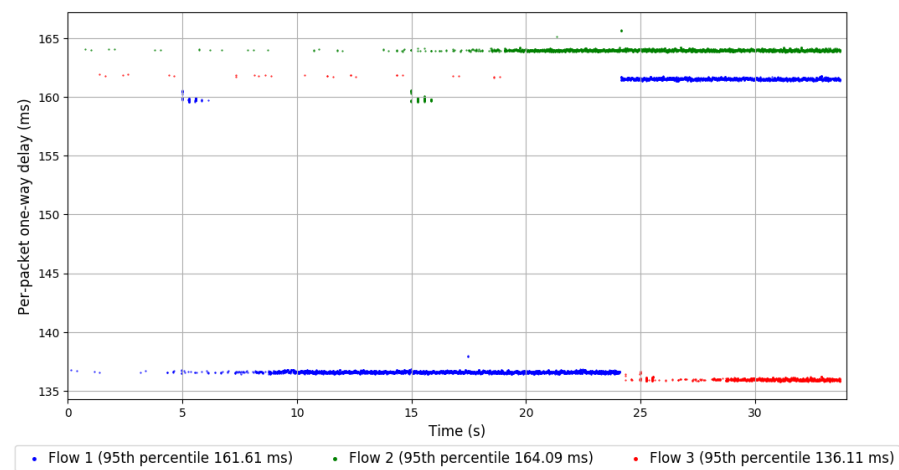
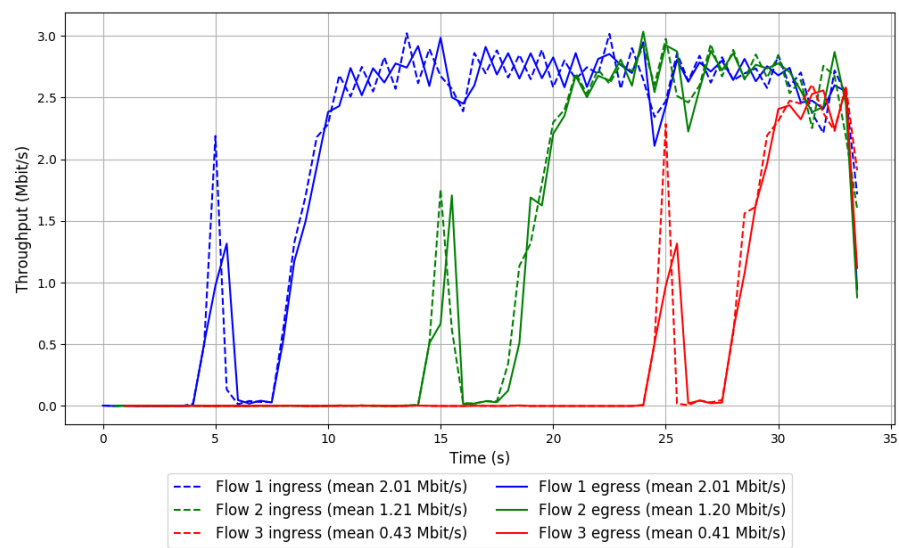
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 5.21%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-12 19:00:29

End at: 2017-10-12 19:00:59

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 163.182 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 160.992 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 163.142 ms

Loss rate: 2.18%

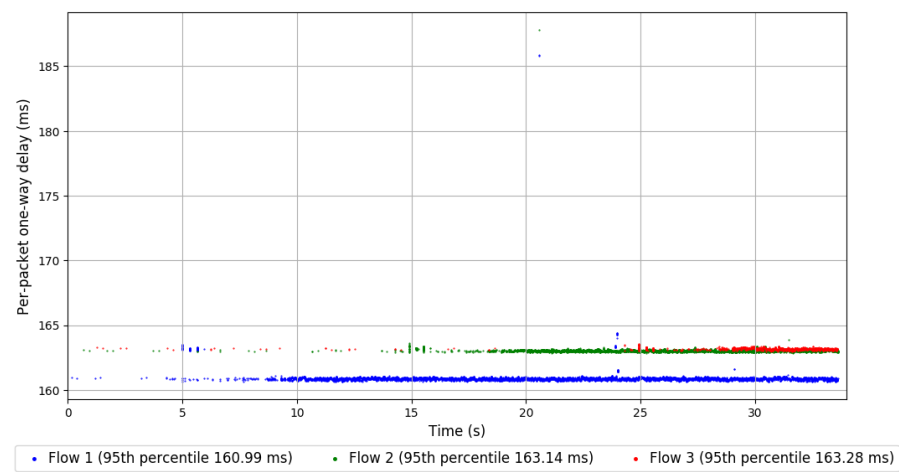
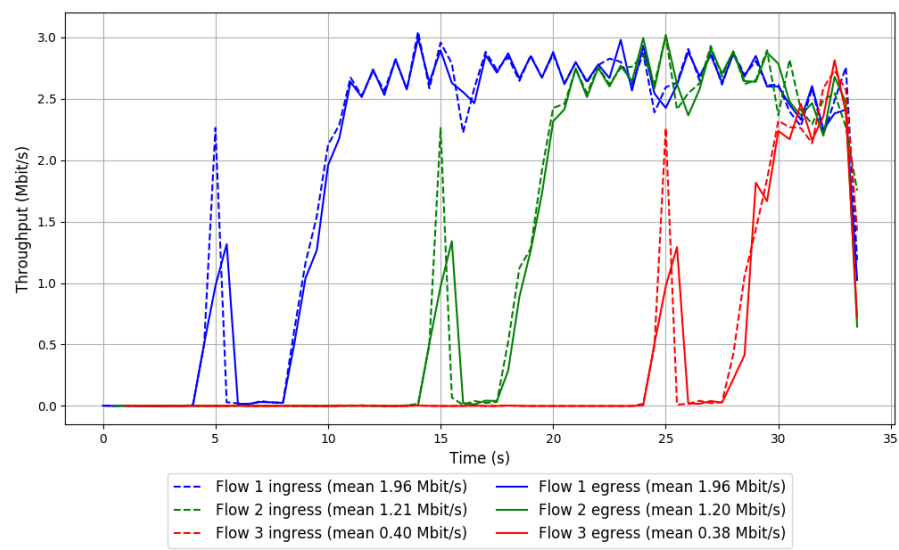
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 163.281 ms

Loss rate: 6.36%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-12 19:14:03

End at: 2017-10-12 19:14:33

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 163.268 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 137.118 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 163.306 ms

Loss rate: 2.03%

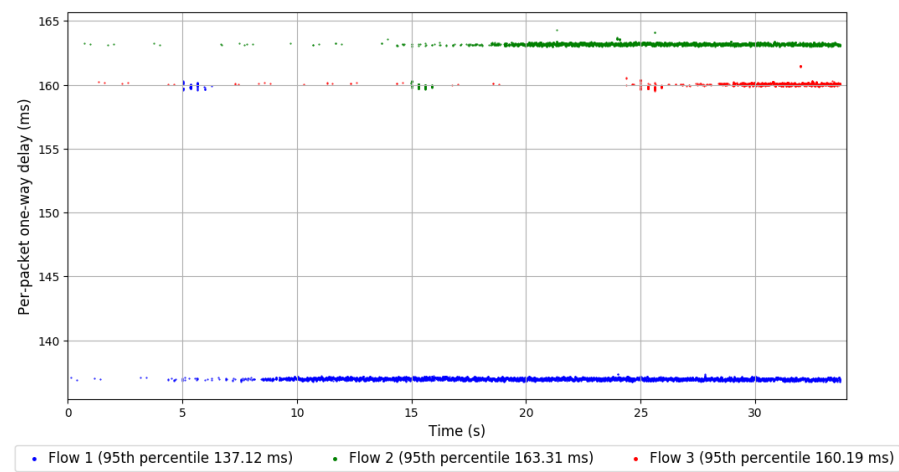
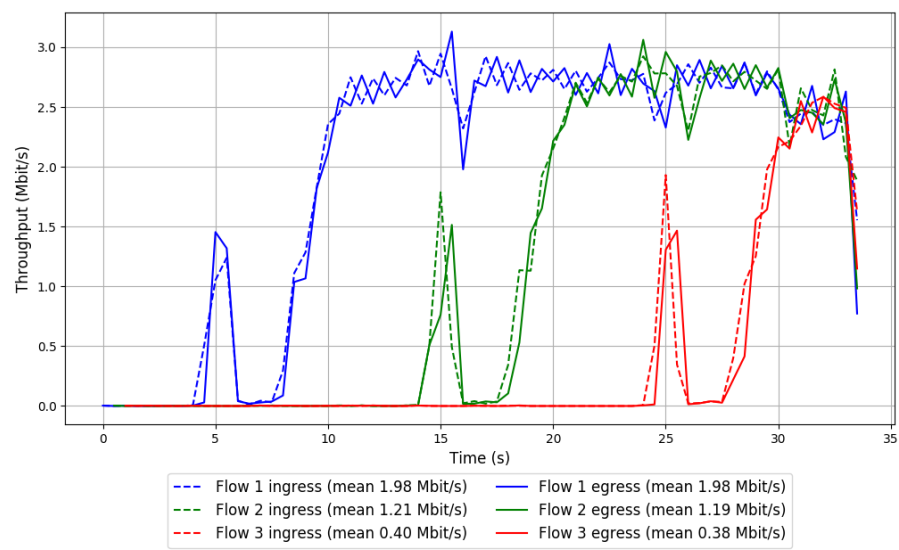
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 160.186 ms

Loss rate: 5.37%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-12 19:28:07

End at: 2017-10-12 19:28:37

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 161.967 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 161.984 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 161.940 ms

Loss rate: 2.13%

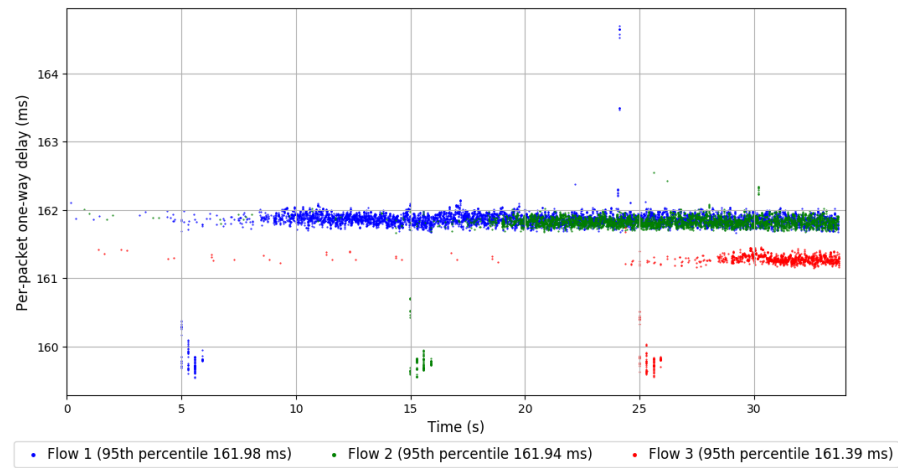
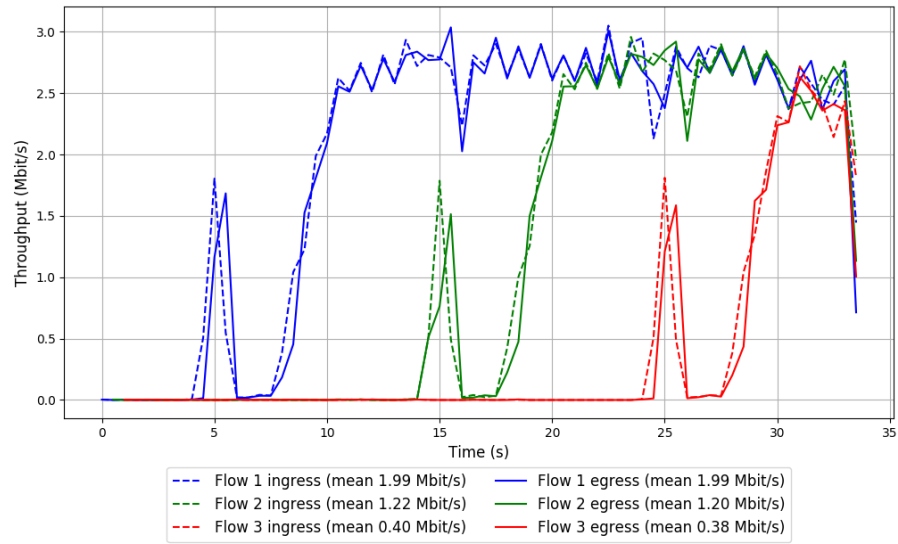
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 161.386 ms

Loss rate: 5.79%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-12 19:41:50

End at: 2017-10-12 19:42:20

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 161.785 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 161.407 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 1.67%

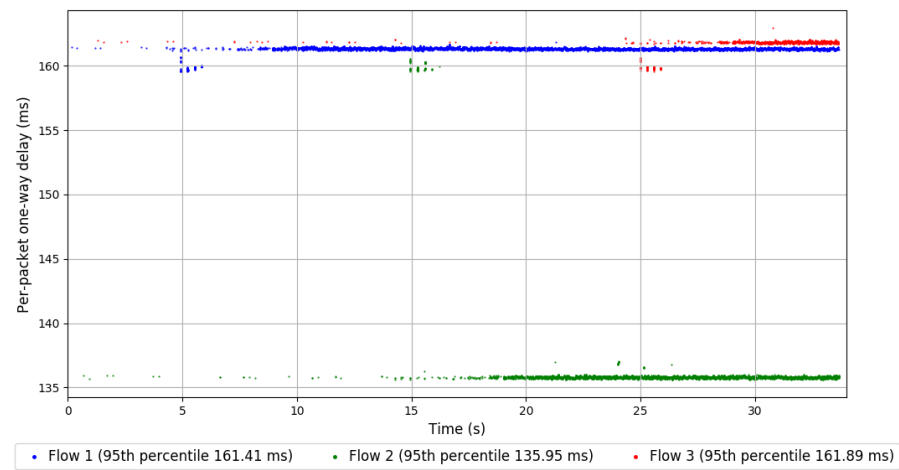
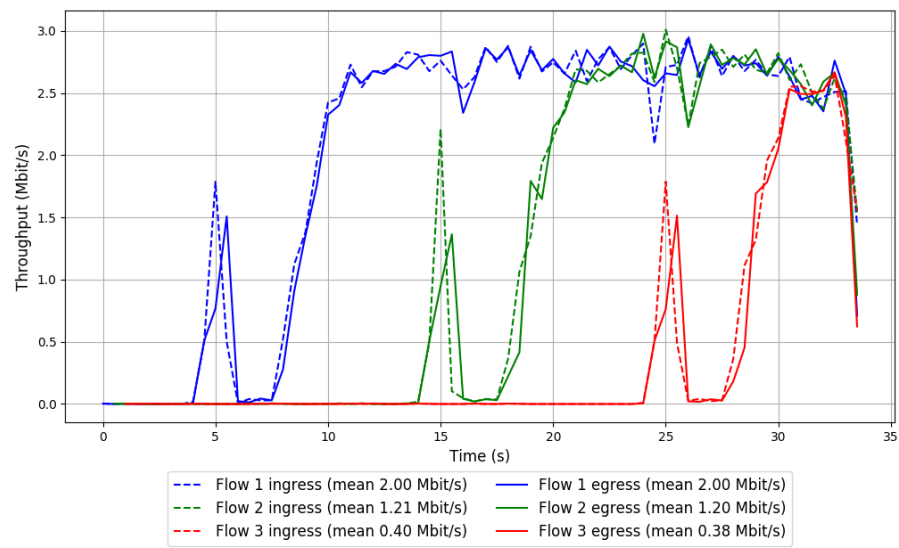
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 161.893 ms

Loss rate: 5.93%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-10-12 17:40:51

End at: 2017-10-12 17:41:21

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 163.403 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 163.463 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 163.352 ms

Loss rate: 0.09%

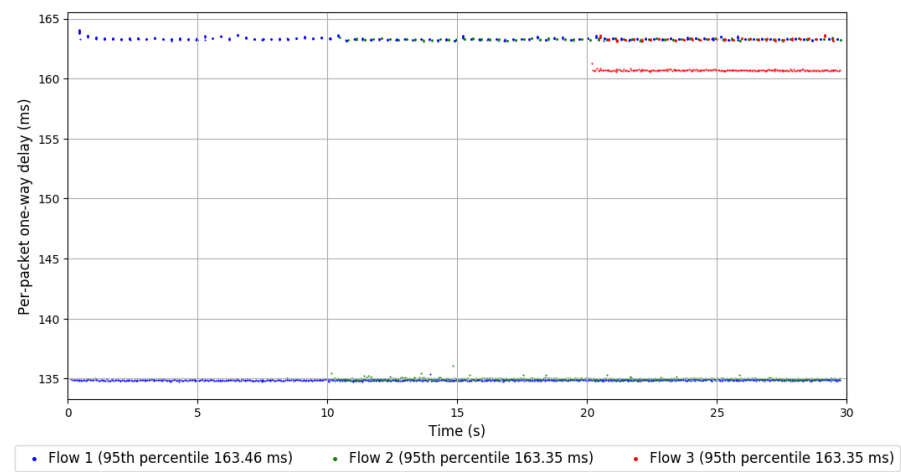
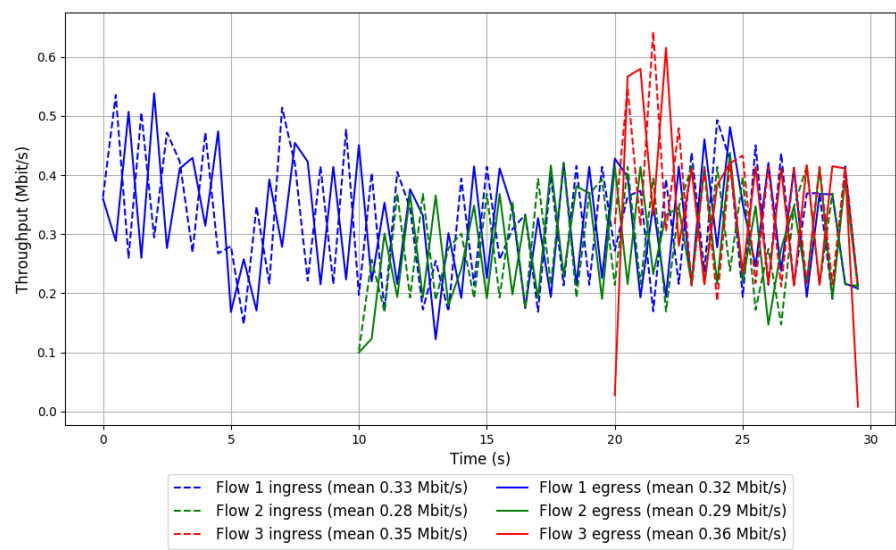
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 163.354 ms

Loss rate: 2.99%

Run 1: Report of Sprout — Data Link

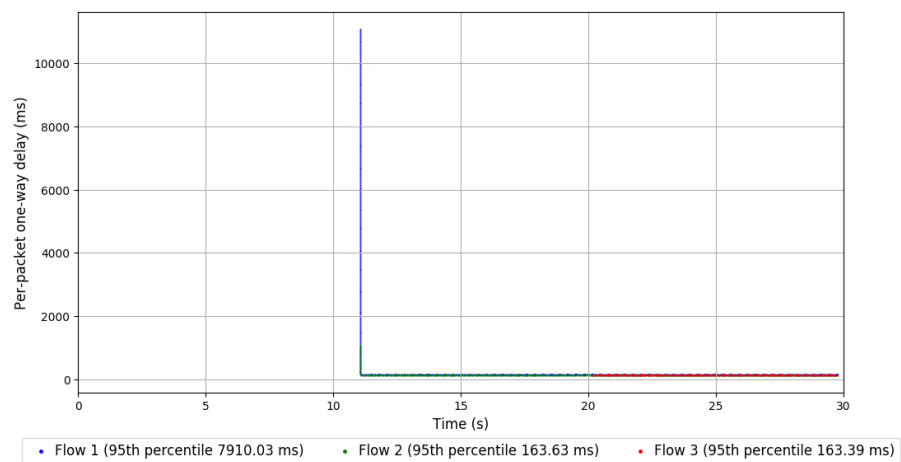
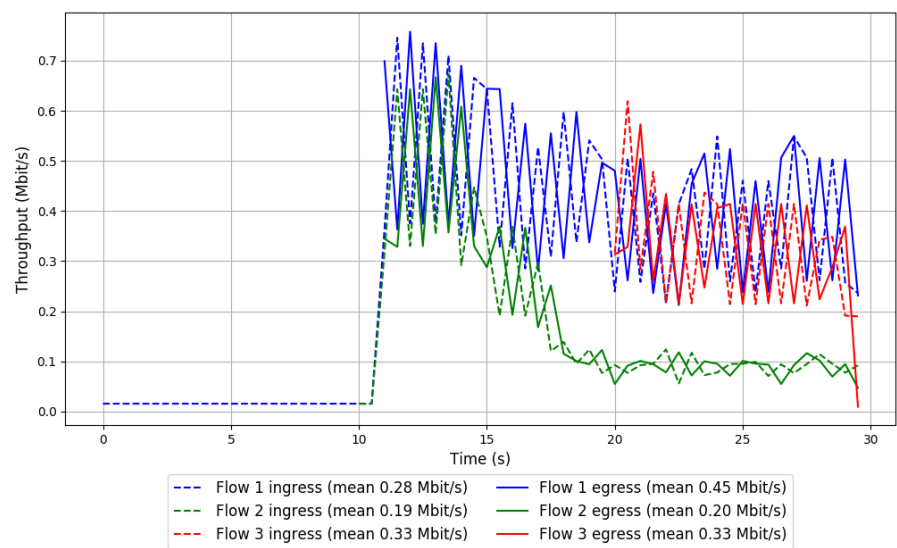


Run 2: Statistics of Sprout

Start at: 2017-10-12 17:54:09

End at: 2017-10-12 17:54:39

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-12 18:07:53

End at: 2017-10-12 18:08:23

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 163.531 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 163.549 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 160.883 ms

Loss rate: 0.96%

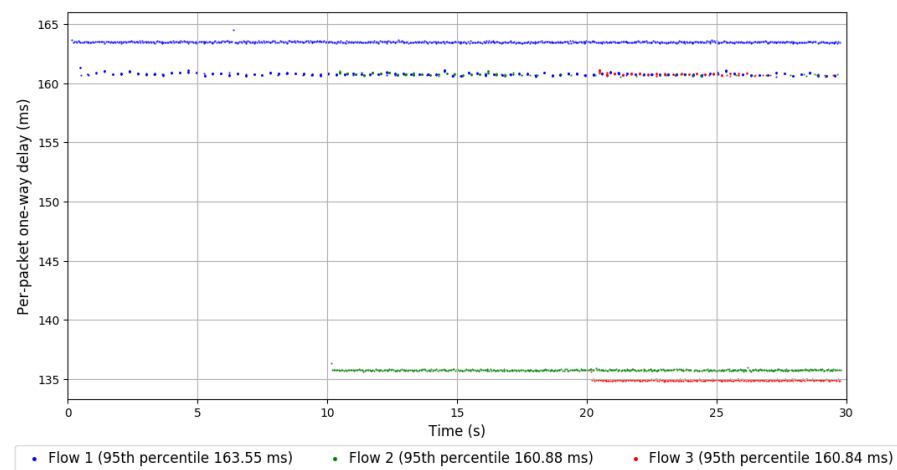
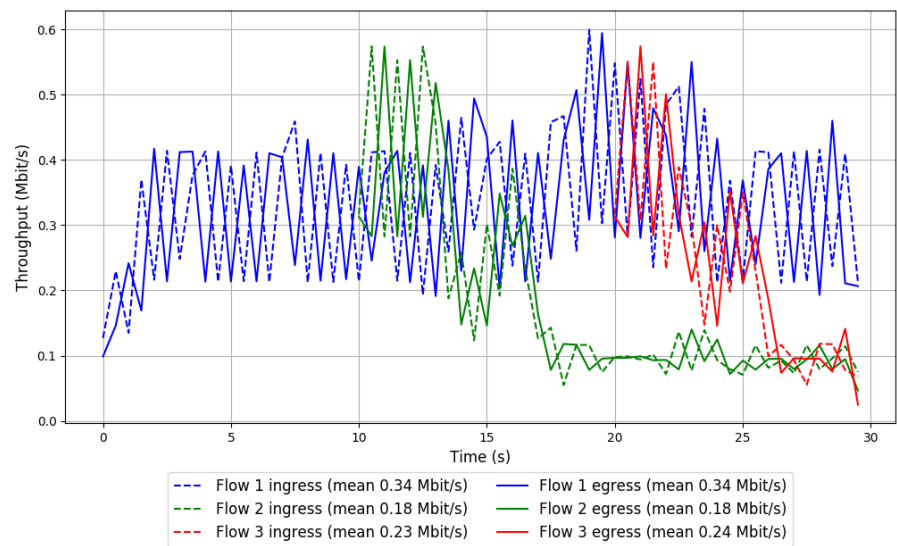
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 160.845 ms

Loss rate: 1.04%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-12 18:21:41

End at: 2017-10-12 18:22:11

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 162.454 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 160.685 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 162.475 ms

Loss rate: 1.75%

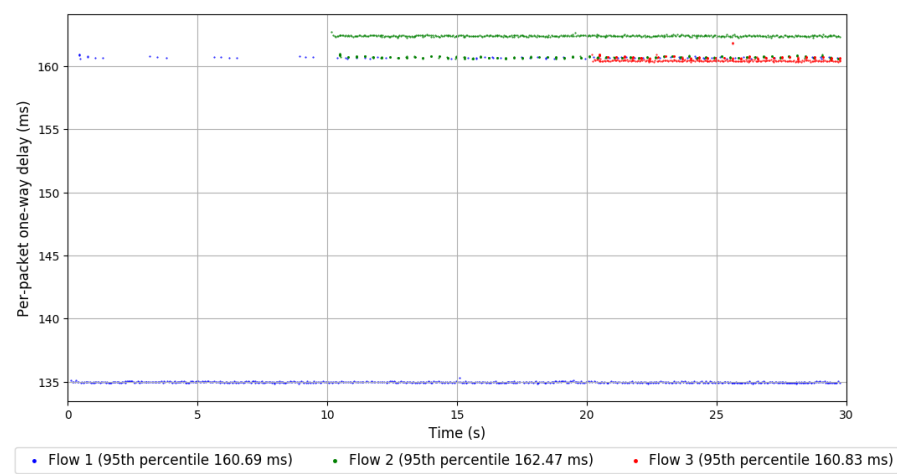
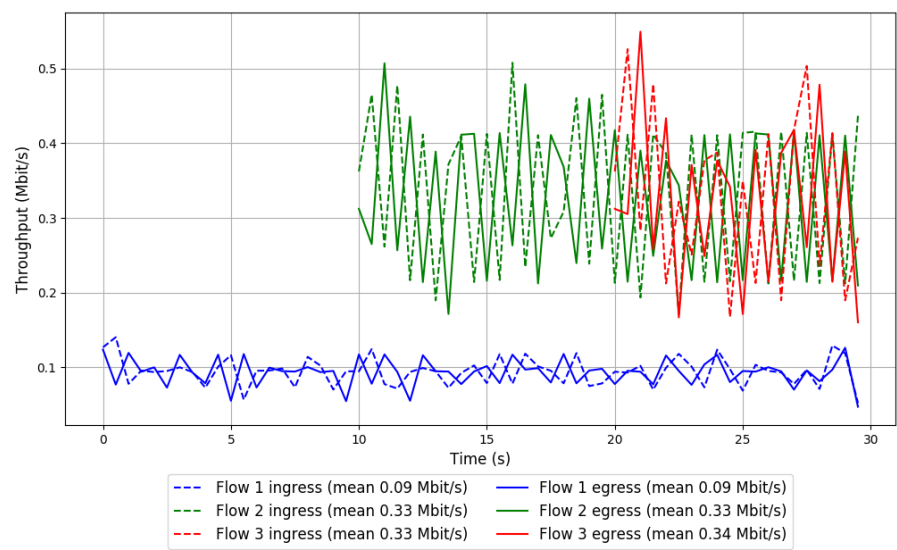
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 160.826 ms

Loss rate: 1.80%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-12 18:35:14

End at: 2017-10-12 18:35:44

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 161.581 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 159.827 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 161.610 ms

Loss rate: 0.88%

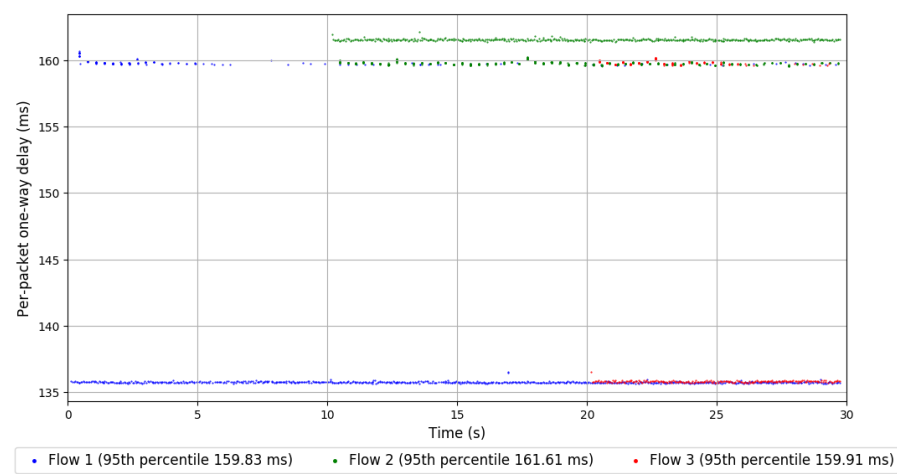
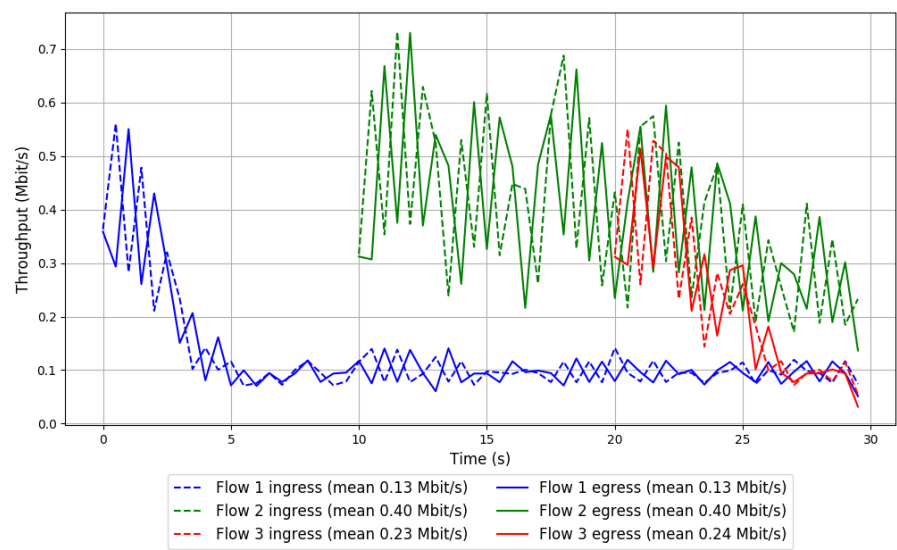
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 159.912 ms

Loss rate: 1.06%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-12 18:49:32

End at: 2017-10-12 18:50:02

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 164.000 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 163.980 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 136.223 ms

Loss rate: 0.75%

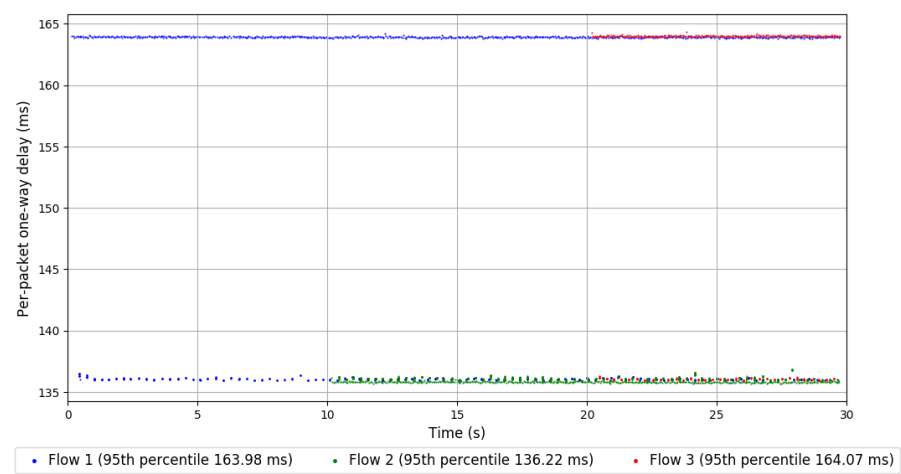
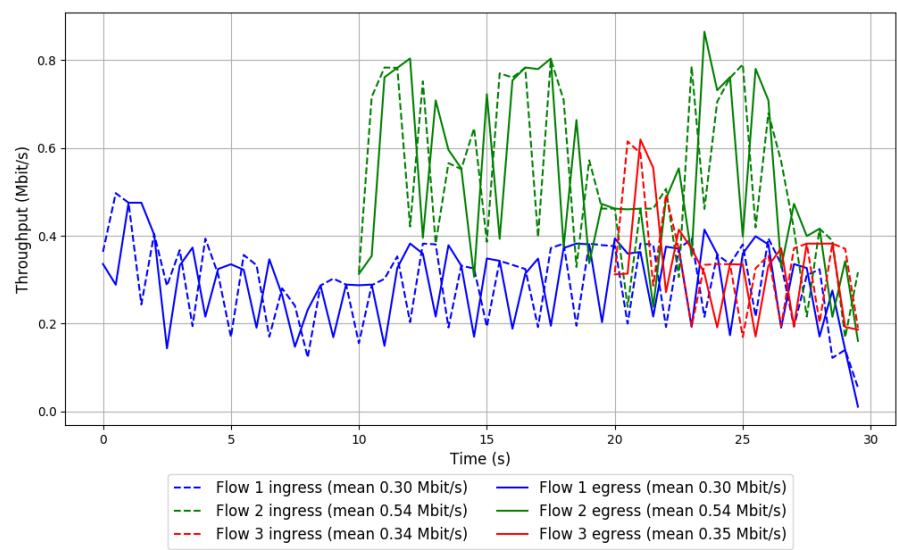
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 164.067 ms

Loss rate: 2.74%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-12 19:03:05

End at: 2017-10-12 19:03:35

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 163.047 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 159.914 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 163.078 ms

Loss rate: 1.78%

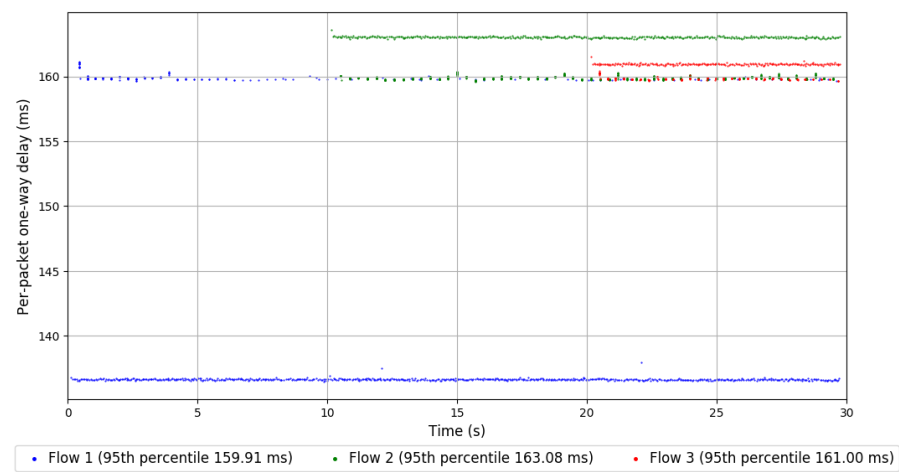
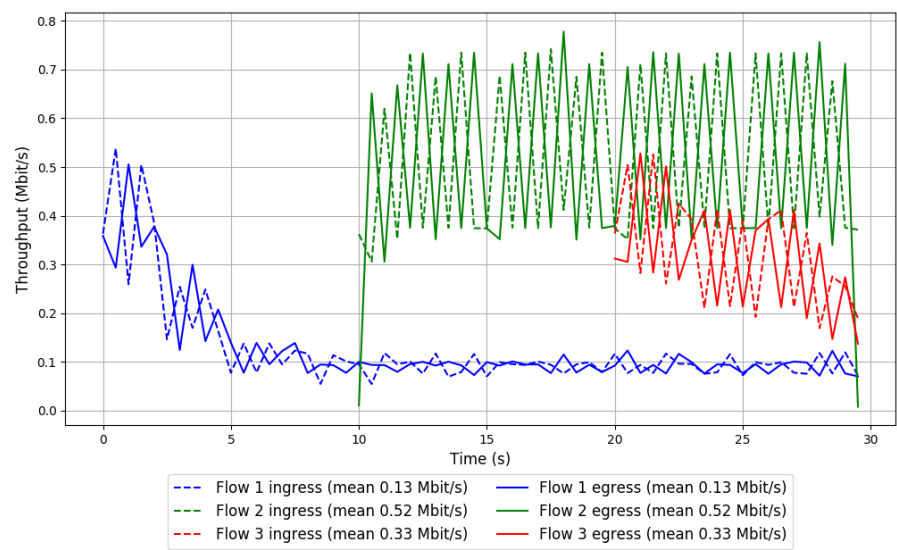
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 160.997 ms

Loss rate: 2.60%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-12 19:16:58

End at: 2017-10-12 19:17:28

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 164.077 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 160.133 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 159.836 ms

Loss rate: 0.37%

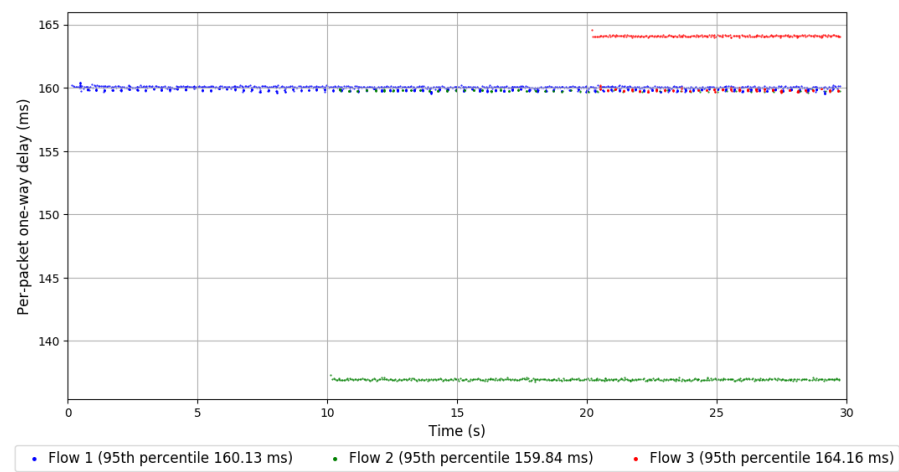
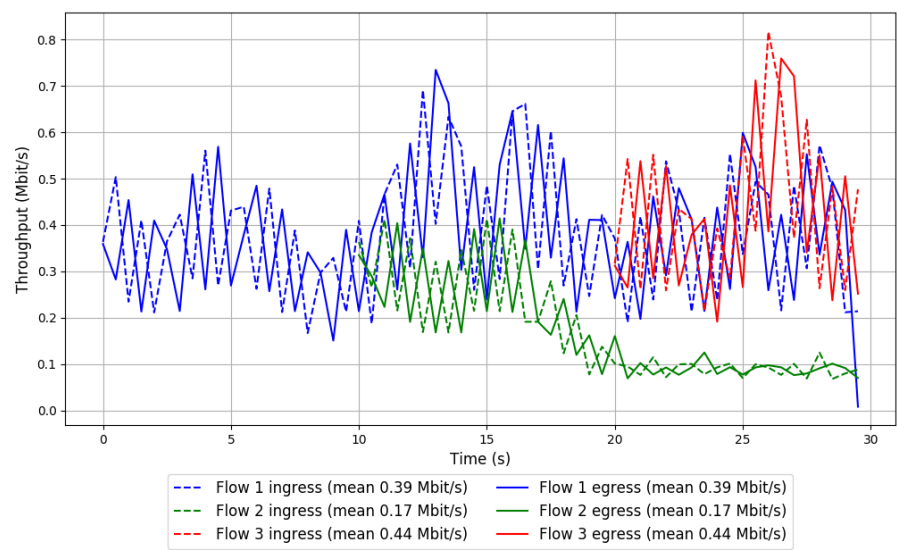
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 164.156 ms

Loss rate: 2.67%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-12 19:30:46

End at: 2017-10-12 19:31:16

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 163.401 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 161.417 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 159.840 ms

Loss rate: 0.82%

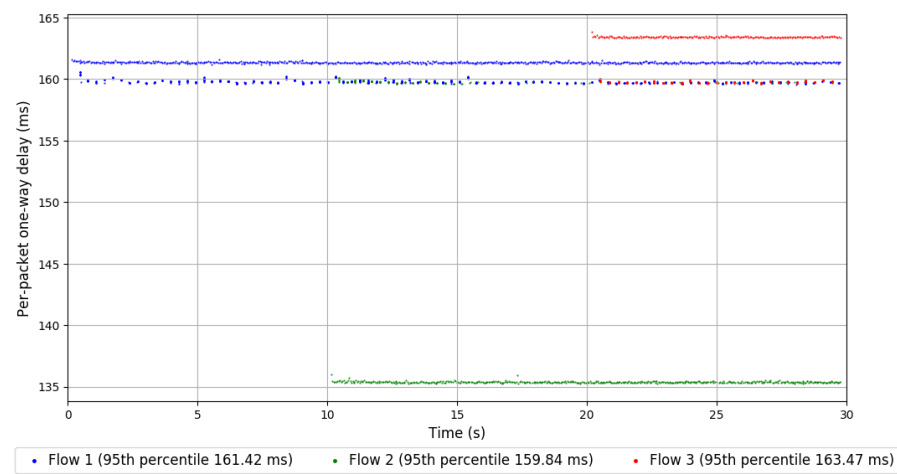
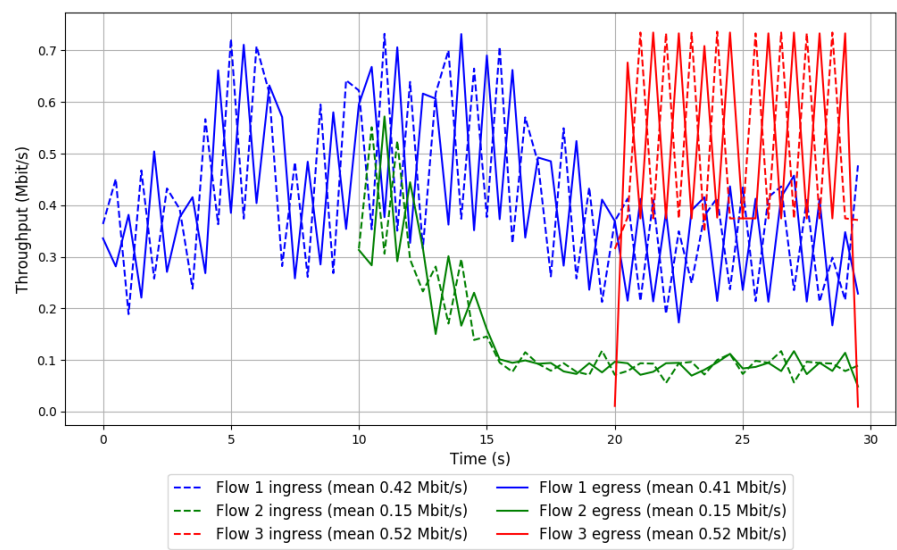
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 163.469 ms

Loss rate: 3.58%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-12 19:44:35

End at: 2017-10-12 19:45:05

Below is generated by plot.py at 2017-10-12 22:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 163.835 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 159.703 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 161.775 ms

Loss rate: 1.80%

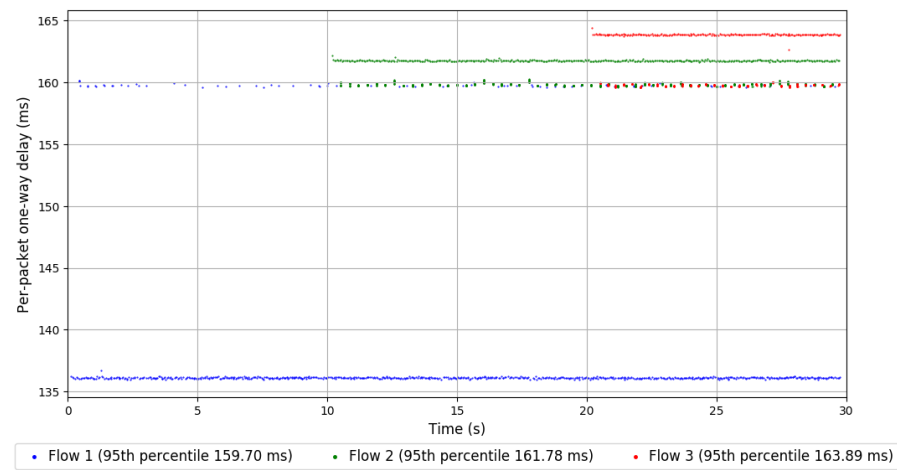
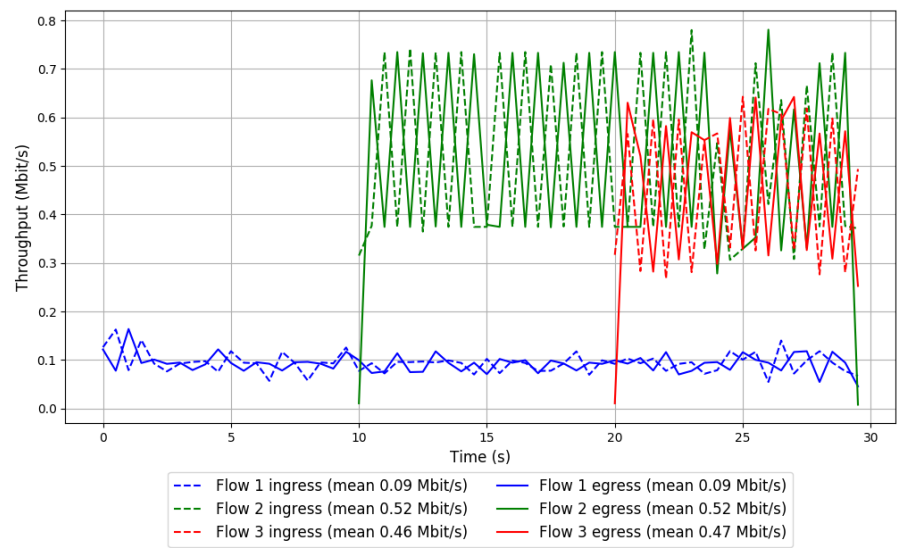
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 163.887 ms

Loss rate: 2.68%

Run 10: Report of Sprout — Data Link

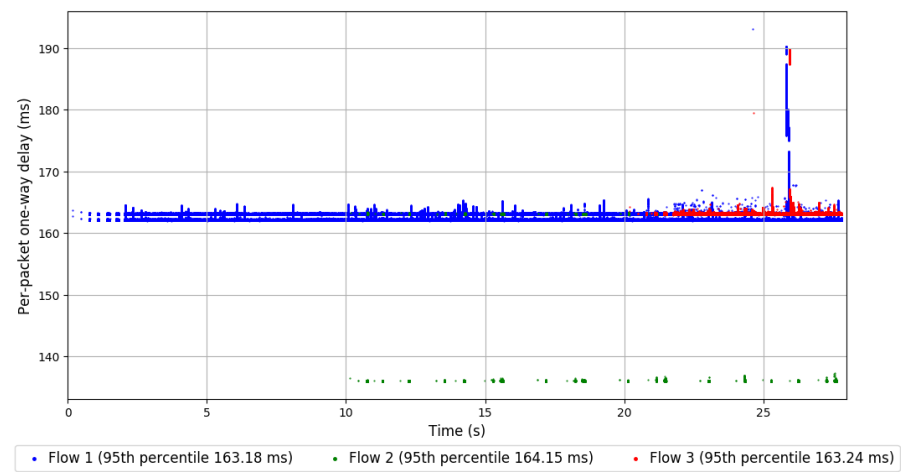
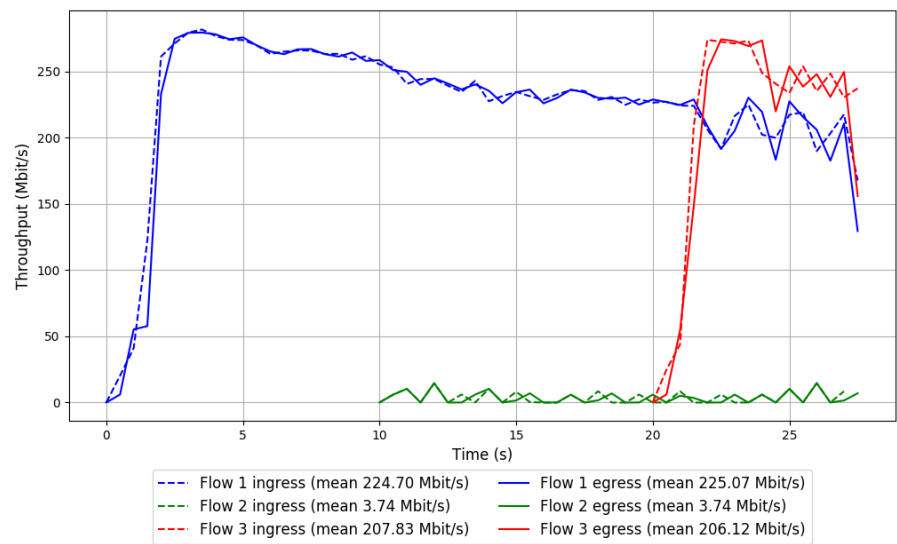


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-12 17:39:29
End at: 2017-10-12 17:39:59

# Below is generated by plot.py at 2017-10-12 22:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.34 Mbit/s
95th percentile per-packet one-way delay: 163.192 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 225.07 Mbit/s
95th percentile per-packet one-way delay: 163.181 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 164.149 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.12 Mbit/s
95th percentile per-packet one-way delay: 163.236 ms
Loss rate: 4.56%
```


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

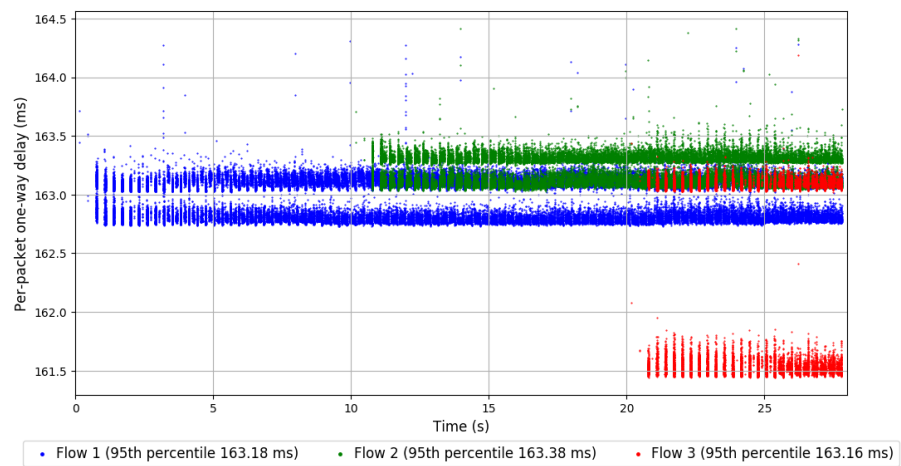
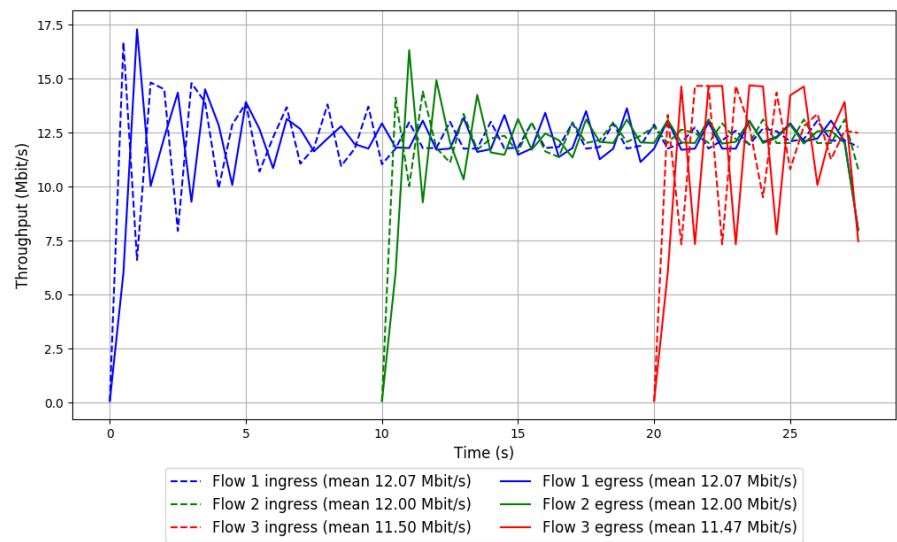


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-12 17:53:15
End at: 2017-10-12 17:53:45

# Below is generated by plot.py at 2017-10-12 22:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 163.335 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 163.181 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 163.378 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 163.156 ms
Loss rate: 4.03%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-10-12 18:07:00

End at: 2017-10-12 18:07:30

Below is generated by plot.py at 2017-10-12 22:29:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.11 Mbit/s

95th percentile per-packet one-way delay: 162.756 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 160.641 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 160.610 ms

Loss rate: 1.89%

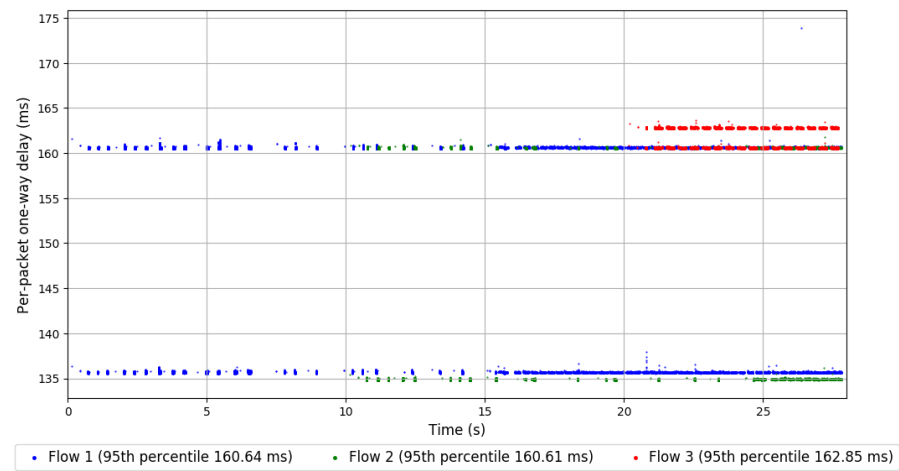
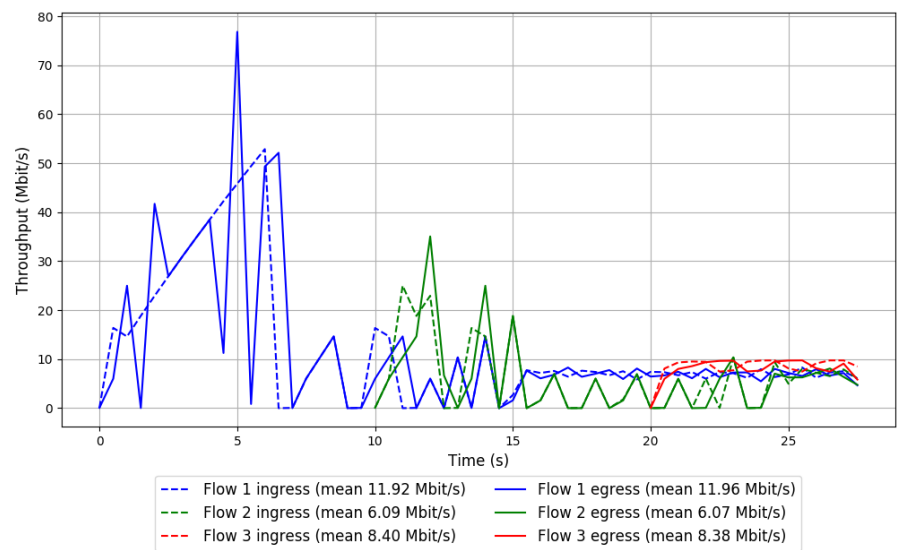
-- Flow 3:

Average throughput: 8.38 Mbit/s

95th percentile per-packet one-way delay: 162.852 ms

Loss rate: 5.44%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-12 18:20:30

End at: 2017-10-12 18:21:00

Below is generated by plot.py at 2017-10-12 22:29:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.00 Mbit/s

95th percentile per-packet one-way delay: 162.023 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 164.153 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 200.51 Mbit/s

95th percentile per-packet one-way delay: 162.030 ms

Loss rate: 1.58%

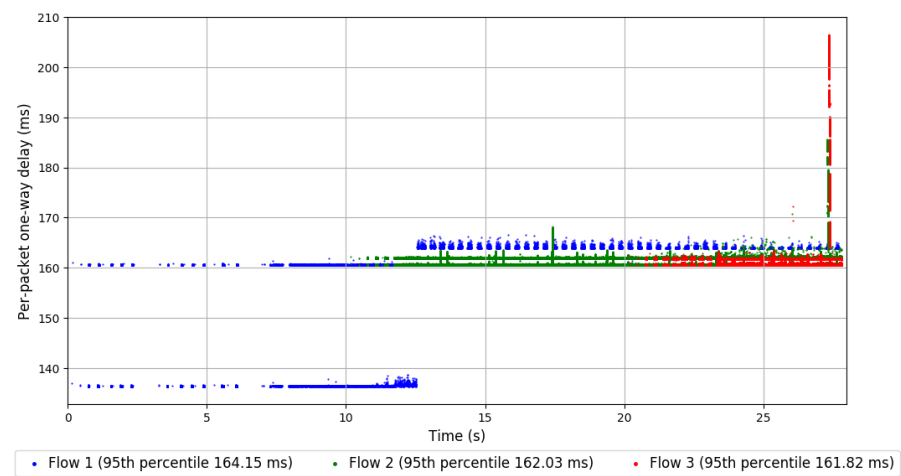
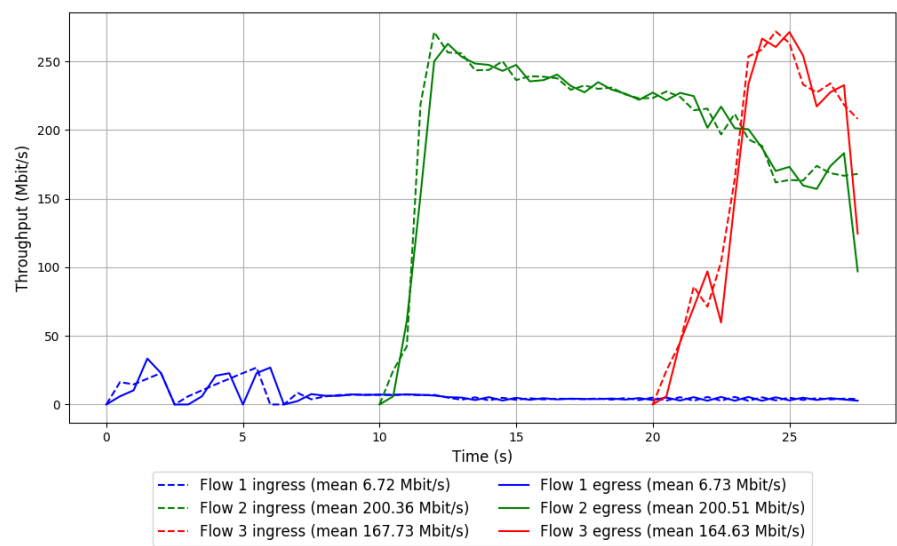
-- Flow 3:

Average throughput: 164.63 Mbit/s

95th percentile per-packet one-way delay: 161.821 ms

Loss rate: 5.53%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-12 18:34:20

End at: 2017-10-12 18:34:50

Below is generated by plot.py at 2017-10-12 22:29:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.40 Mbit/s

95th percentile per-packet one-way delay: 159.650 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 159.659 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 159.647 ms

Loss rate: 5.02%

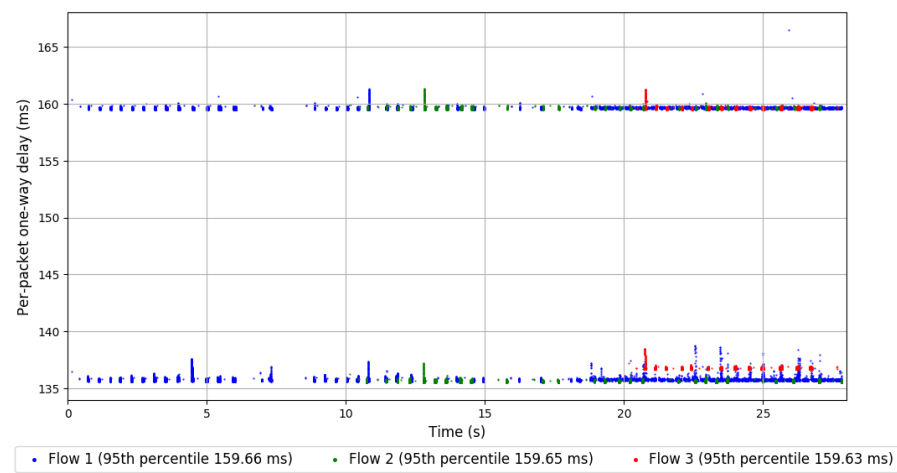
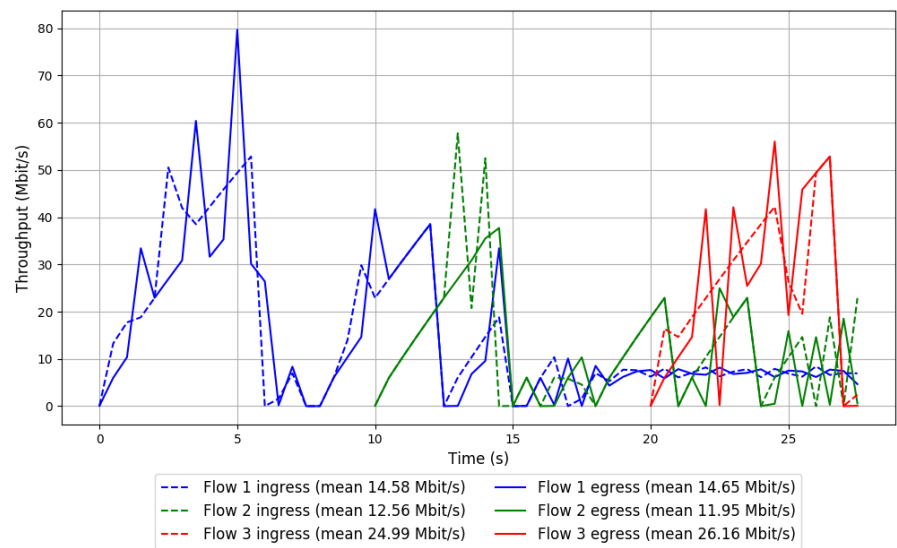
-- Flow 3:

Average throughput: 26.16 Mbit/s

95th percentile per-packet one-way delay: 159.630 ms

Loss rate: 0.60%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-12 18:47:58

End at: 2017-10-12 18:48:28

Below is generated by plot.py at 2017-10-12 22:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.24 Mbit/s

95th percentile per-packet one-way delay: 137.303 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 221.13 Mbit/s

95th percentile per-packet one-way delay: 136.477 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 215.56 Mbit/s

95th percentile per-packet one-way delay: 137.833 ms

Loss rate: 0.84%

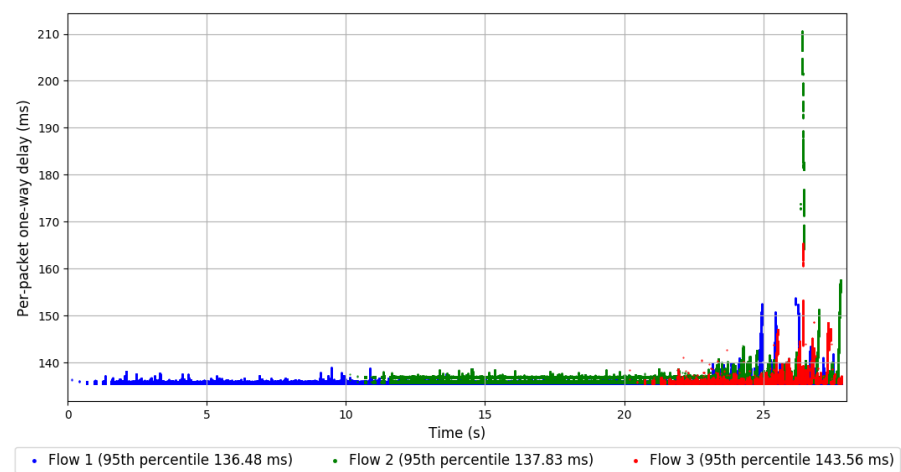
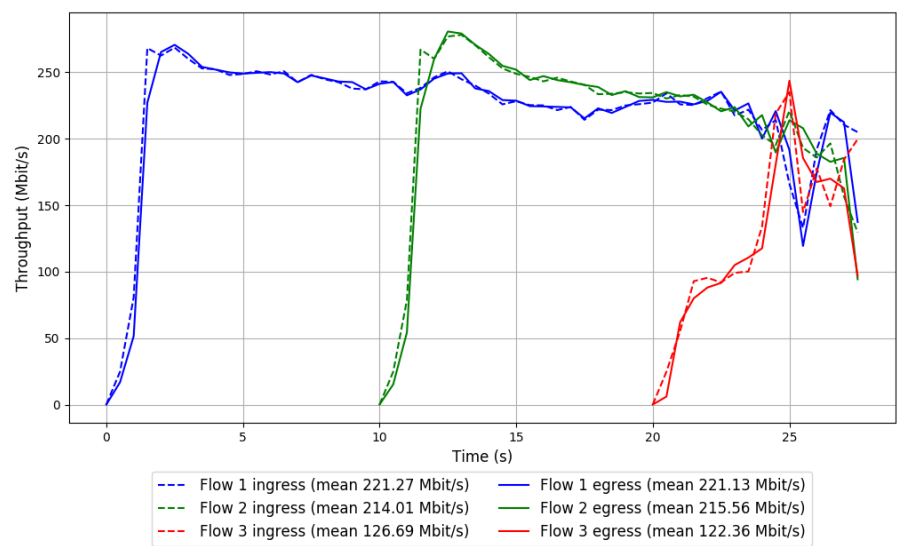
-- Flow 3:

Average throughput: 122.36 Mbit/s

95th percentile per-packet one-way delay: 143.563 ms

Loss rate: 6.77%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-12 19:02:12

End at: 2017-10-12 19:02:42

Below is generated by plot.py at 2017-10-12 22:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 163.117 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 163.101 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.85 Mbit/s

95th percentile per-packet one-way delay: 163.123 ms

Loss rate: 0.52%

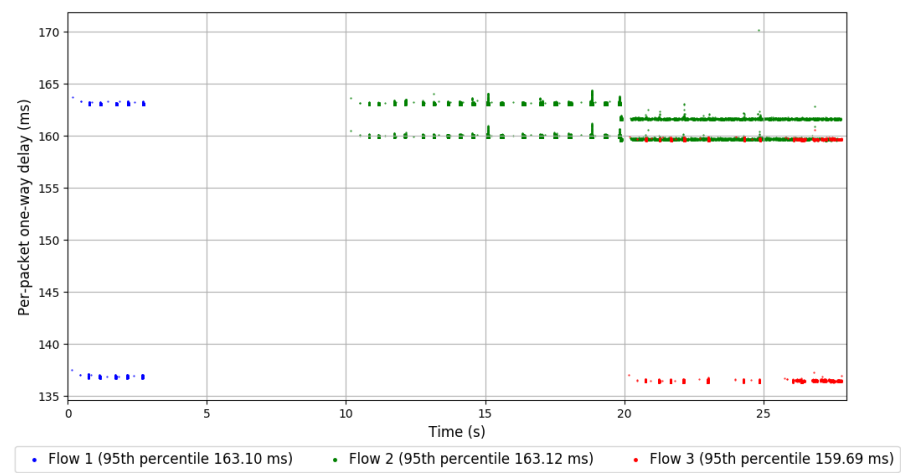
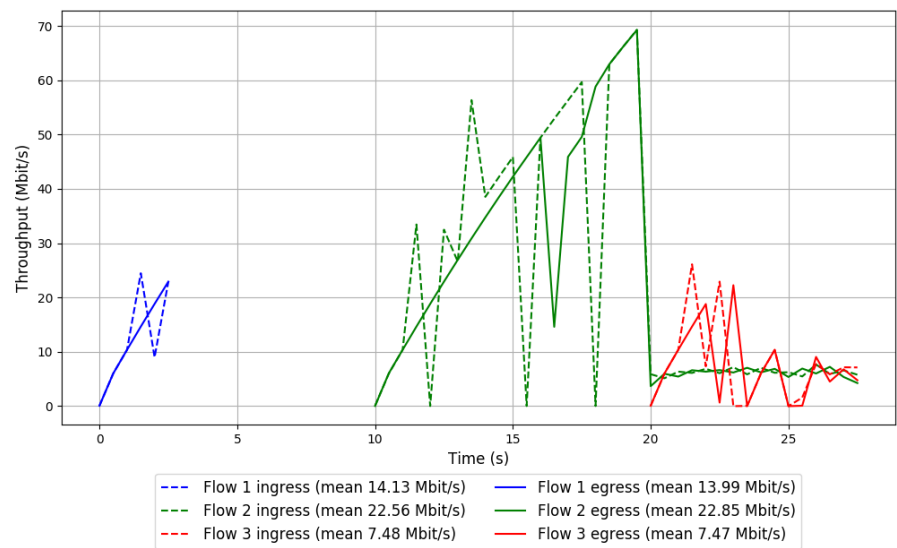
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 159.688 ms

Loss rate: 3.59%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-12 19:15:50

End at: 2017-10-12 19:16:20

Below is generated by plot.py at 2017-10-12 22:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 156.95 Mbit/s

95th percentile per-packet one-way delay: 160.714 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 159.674 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 229.71 Mbit/s

95th percentile per-packet one-way delay: 160.710 ms

Loss rate: 1.47%

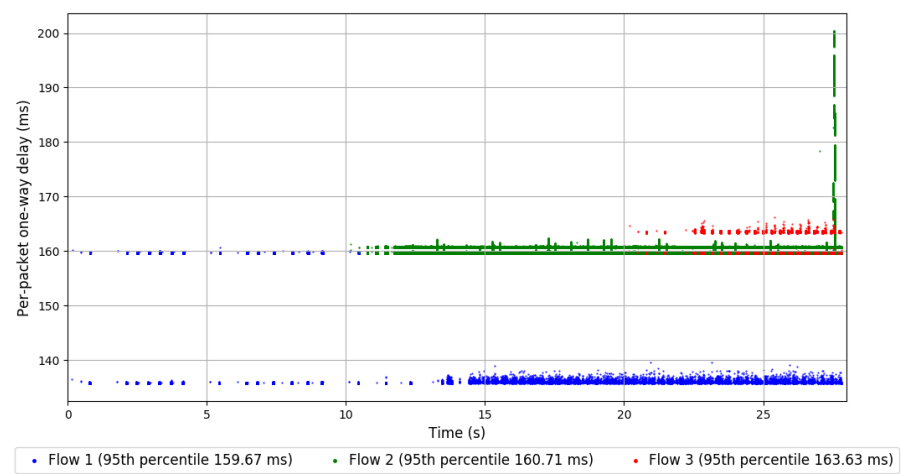
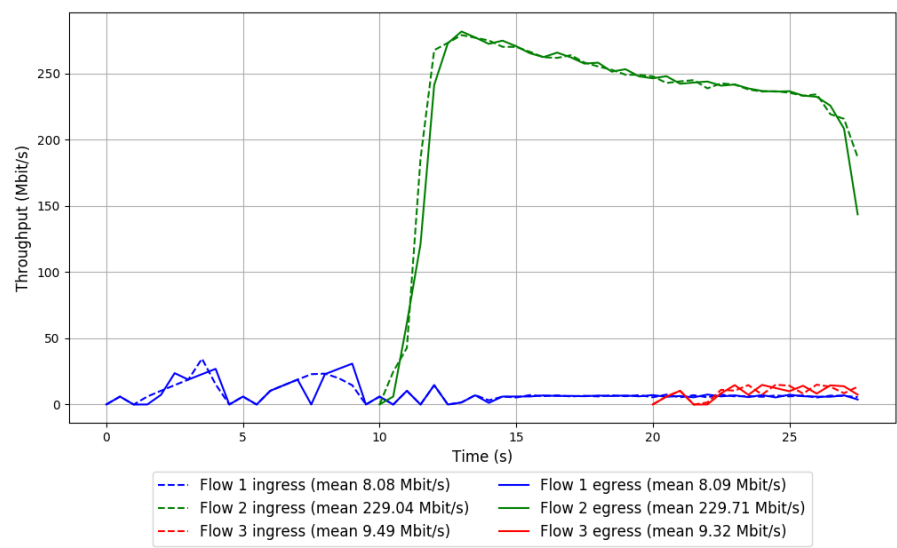
-- Flow 3:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 163.629 ms

Loss rate: 4.82%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-12 19:29:53

End at: 2017-10-12 19:30:23

Below is generated by plot.py at 2017-10-12 22:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.94 Mbit/s

95th percentile per-packet one-way delay: 161.623 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 161.634 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 9.77 Mbit/s

95th percentile per-packet one-way delay: 159.649 ms

Loss rate: 0.00%

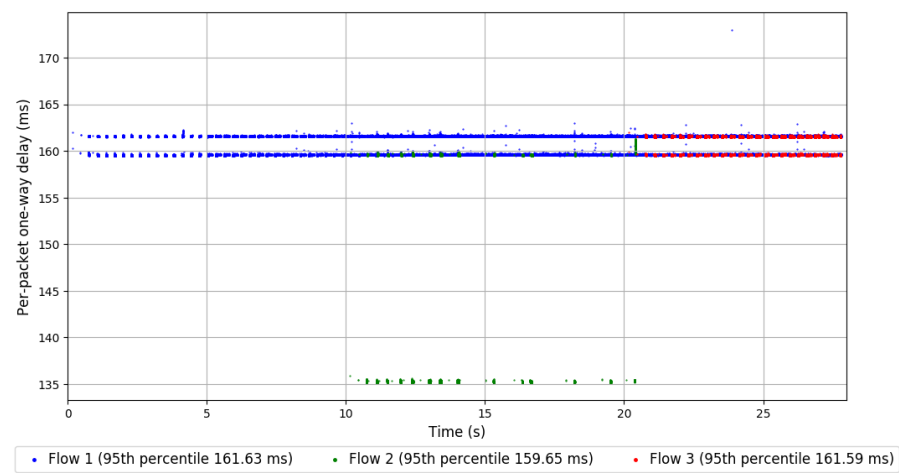
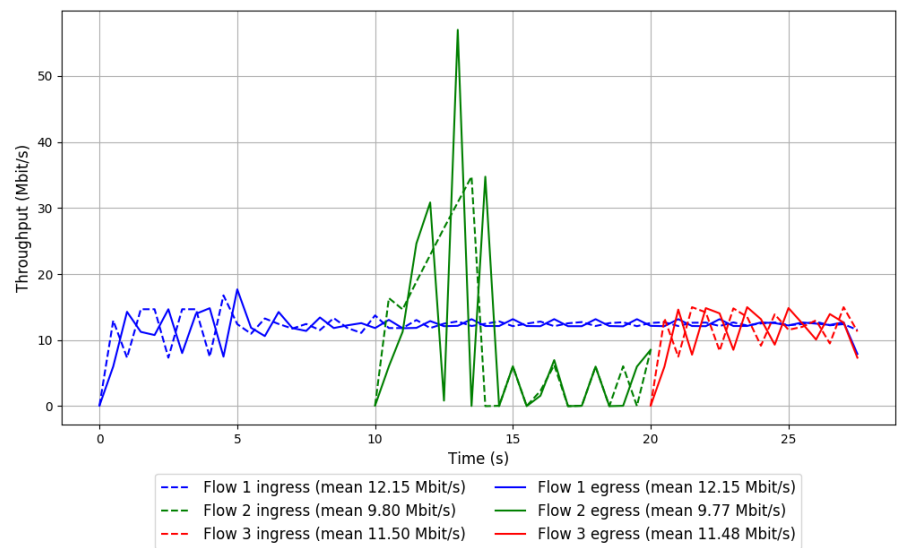
-- Flow 3:

Average throughput: 11.48 Mbit/s

95th percentile per-packet one-way delay: 161.588 ms

Loss rate: 4.03%

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

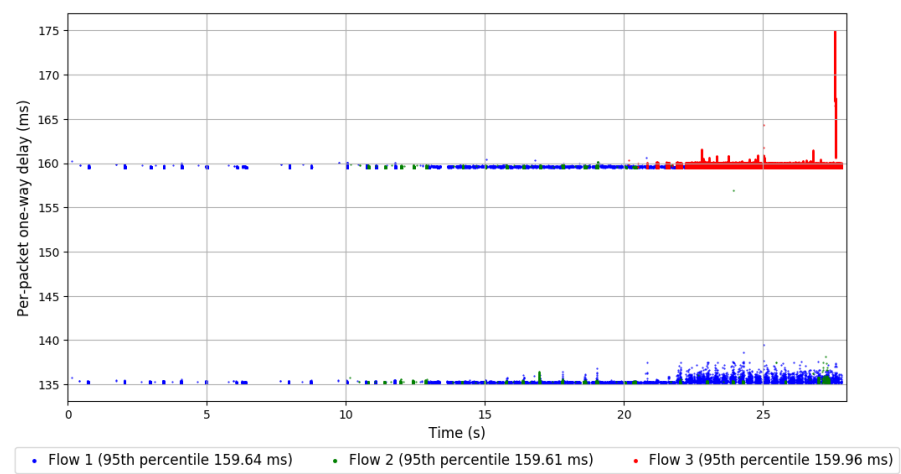
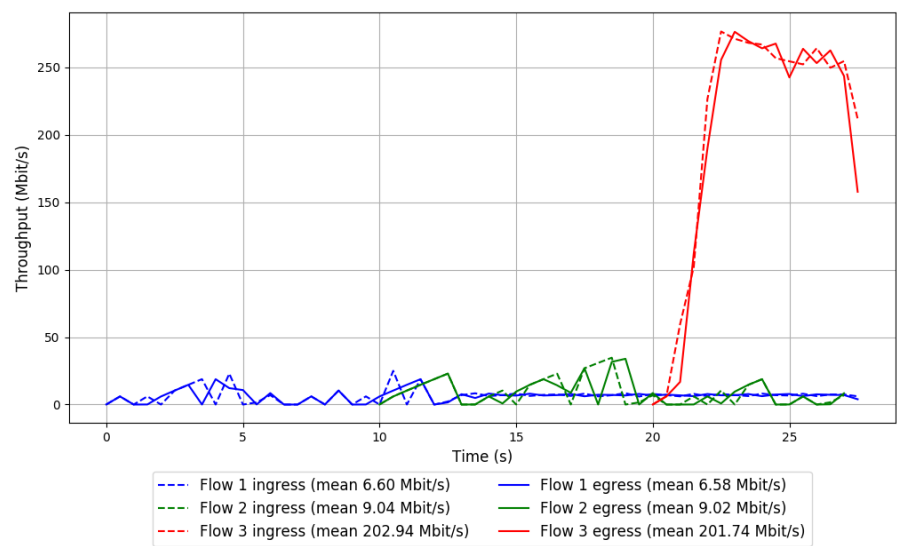


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-12 19:43:36
End at: 2017-10-12 19:44:06

# Below is generated by plot.py at 2017-10-12 22:32:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.86 Mbit/s
95th percentile per-packet one-way delay: 159.948 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 159.636 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 159.613 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.74 Mbit/s
95th percentile per-packet one-way delay: 159.955 ms
Loss rate: 4.34%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-12 17:41:41

End at: 2017-10-12 17:42:11

Below is generated by plot.py at 2017-10-12 22:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 163.473 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 163.502 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 163.449 ms

Loss rate: 1.55%

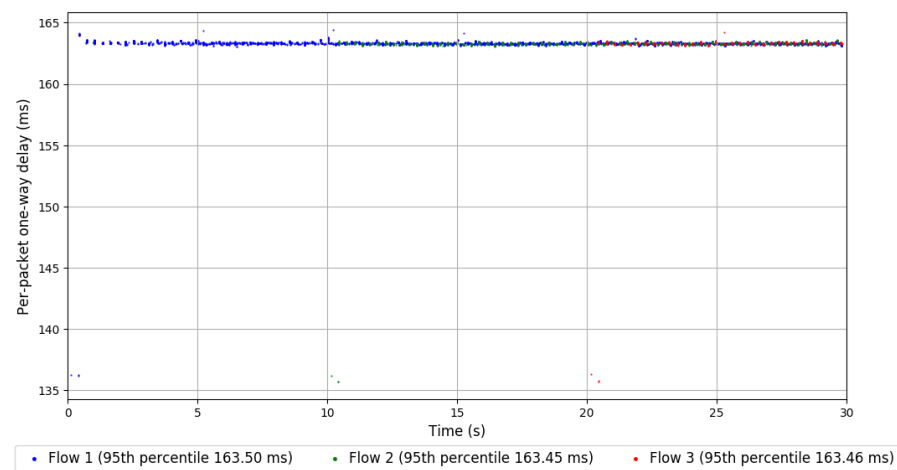
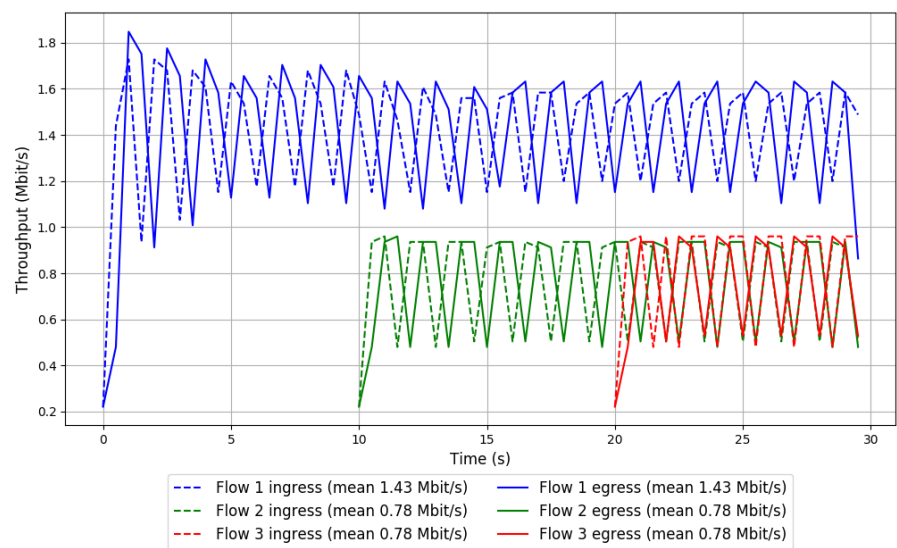
-- Flow 3:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 163.464 ms

Loss rate: 3.09%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-12 17:54:59

End at: 2017-10-12 17:55:29

Below is generated by plot.py at 2017-10-12 22:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 169.735 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 170.420 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 160.932 ms

Loss rate: 1.51%

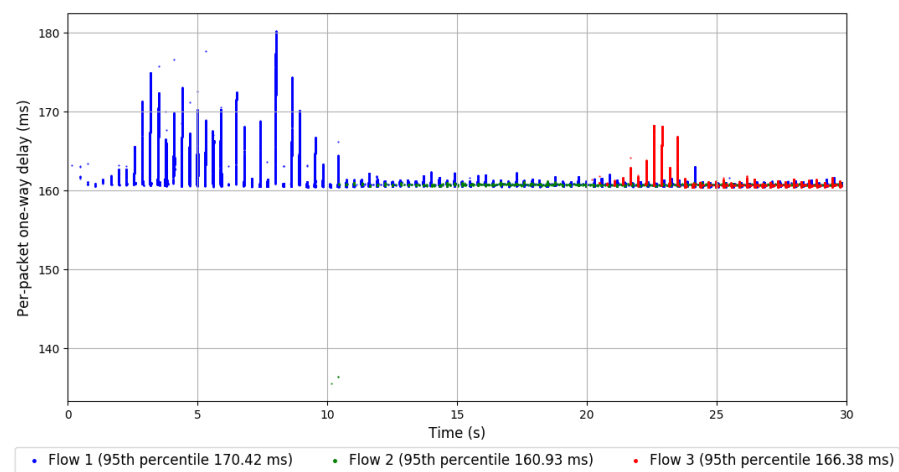
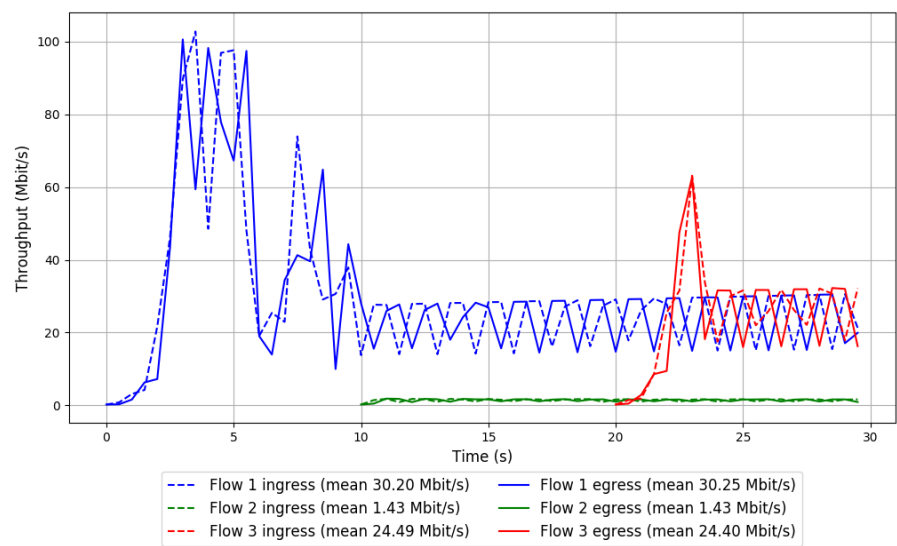
-- Flow 3:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 166.378 ms

Loss rate: 3.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-12 18:08:43

End at: 2017-10-12 18:09:13

Below is generated by plot.py at 2017-10-12 22:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 165.522 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 164.962 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 160.904 ms

Loss rate: 1.56%

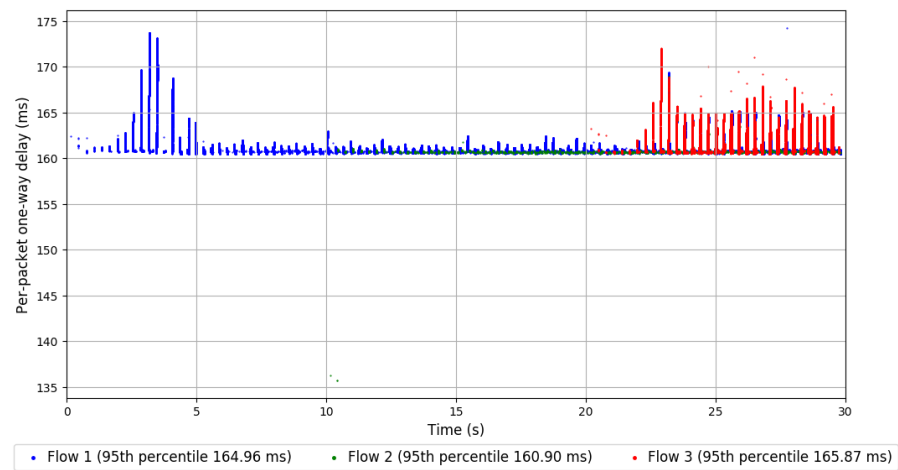
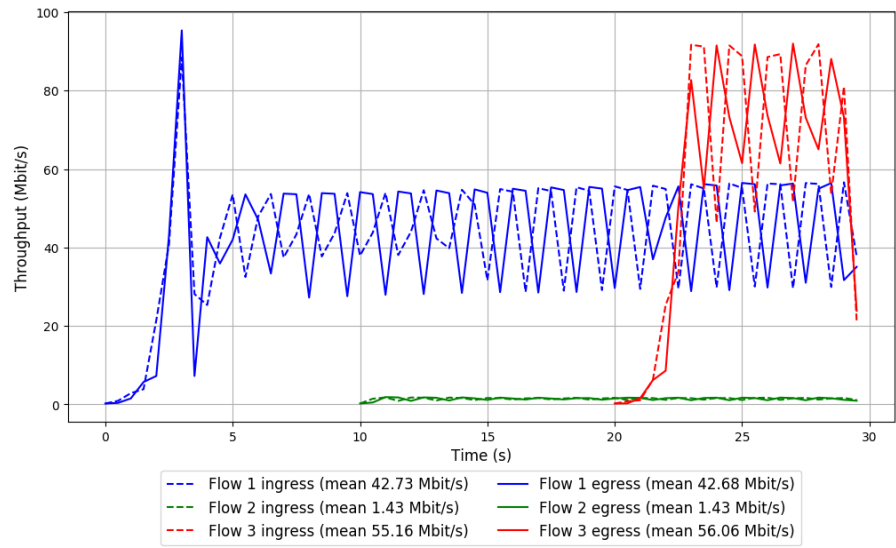
-- Flow 3:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 165.873 ms

Loss rate: 1.51%

Run 3: Report of TCP Vegas — Data Link

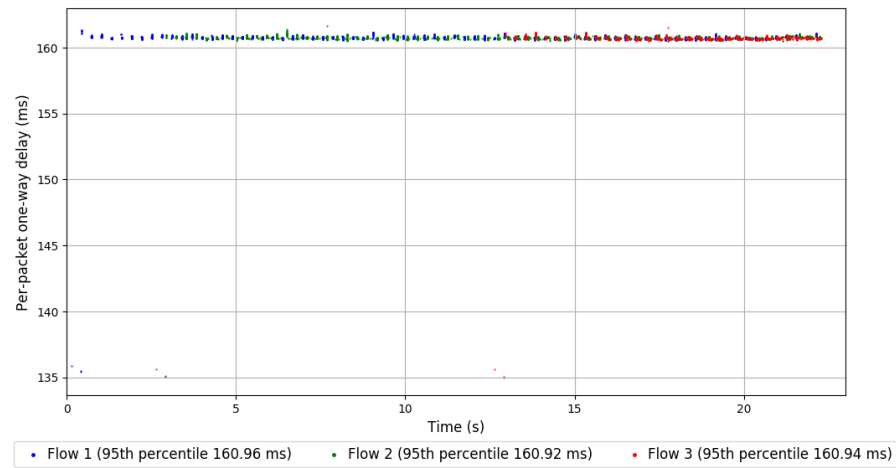
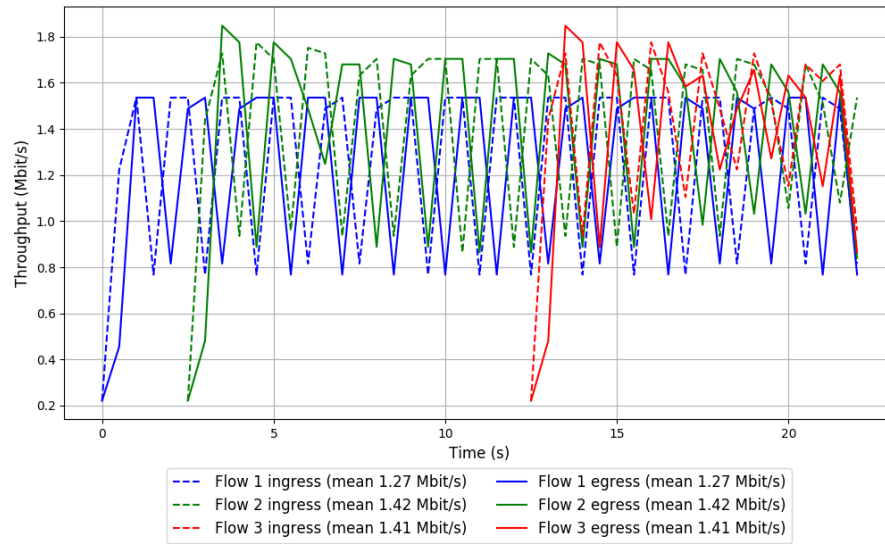


Run 4: Statistics of TCP Vegas

Start at: 2017-10-12 18:22:31

End at: 2017-10-12 18:23:01

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-12 18:36:04

End at: 2017-10-12 18:36:34

Below is generated by plot.py at 2017-10-12 22:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 164.603 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 18.53 Mbit/s

95th percentile per-packet one-way delay: 162.676 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 30.00 Mbit/s

95th percentile per-packet one-way delay: 166.298 ms

Loss rate: 1.67%

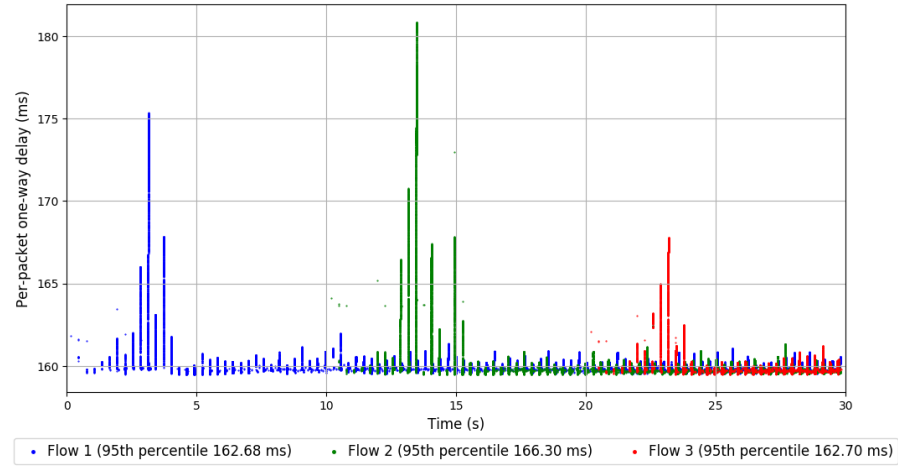
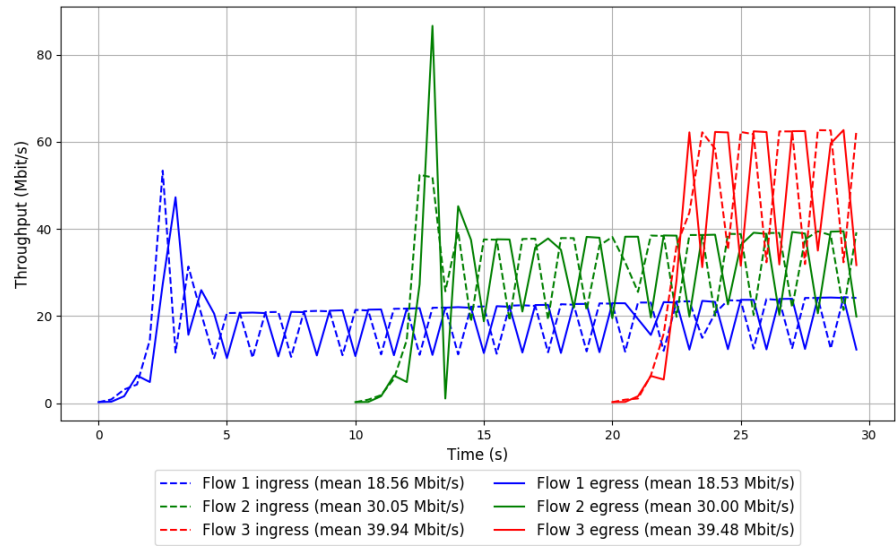
-- Flow 3:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 162.704 ms

Loss rate: 3.98%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-12 18:50:22

End at: 2017-10-12 18:50:52

Below is generated by plot.py at 2017-10-12 22:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 143.116 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 35.96 Mbit/s

95th percentile per-packet one-way delay: 137.959 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 145.517 ms

Loss rate: 1.40%

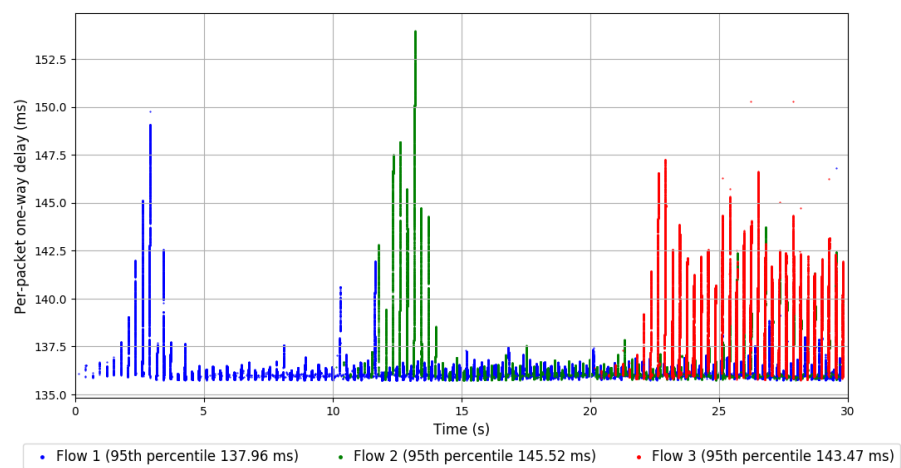
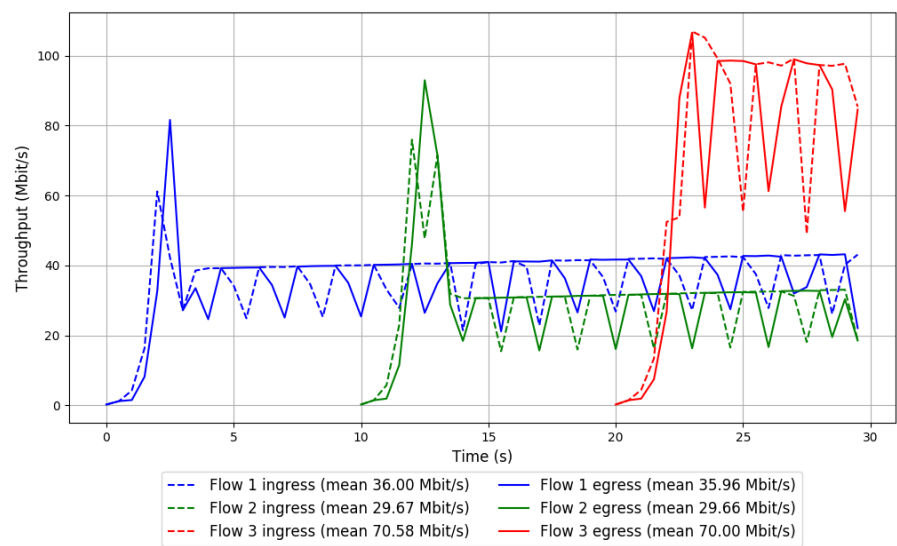
-- Flow 3:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 143.471 ms

Loss rate: 3.55%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-12 19:03:55

End at: 2017-10-12 19:04:25

Below is generated by plot.py at 2017-10-12 22:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 161.069 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 160.070 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 41.44 Mbit/s

95th percentile per-packet one-way delay: 161.148 ms

Loss rate: 1.90%

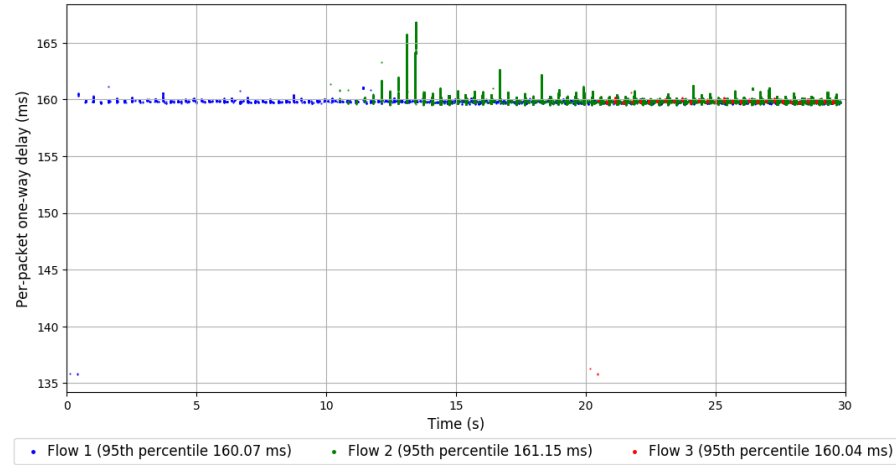
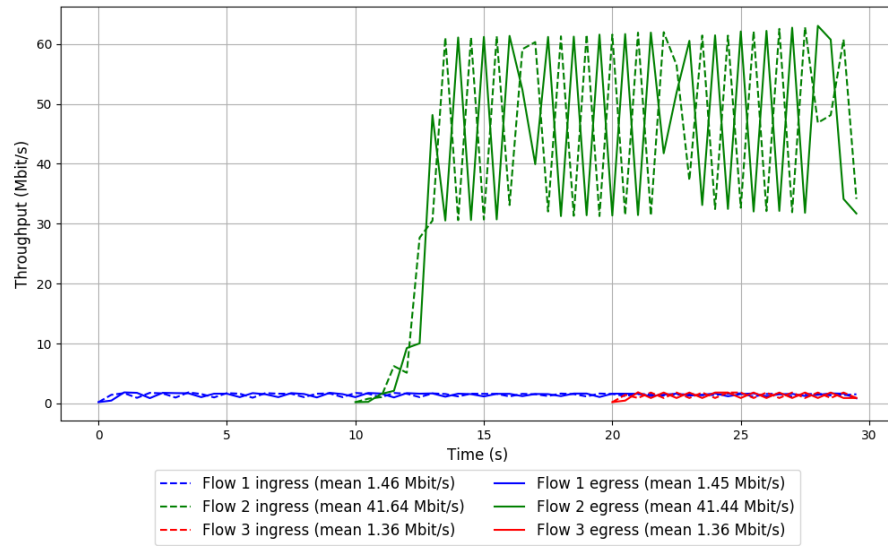
-- Flow 3:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 160.043 ms

Loss rate: 3.47%

Run 7: Report of TCP Vegas — Data Link

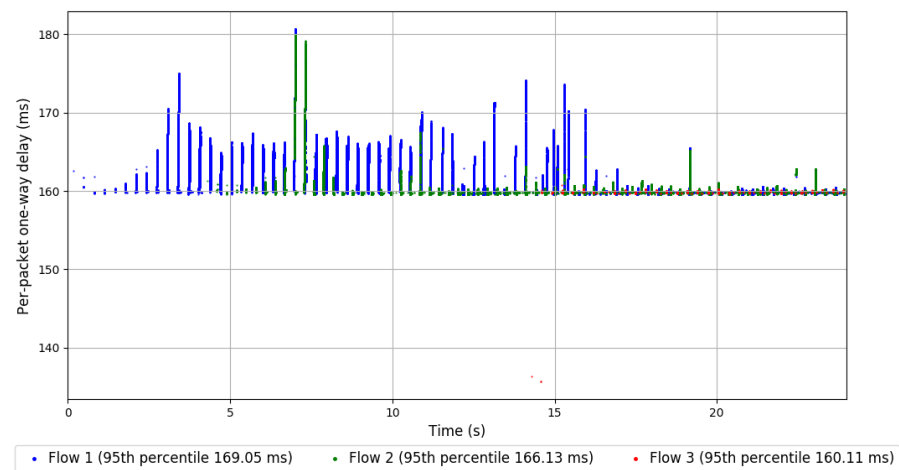
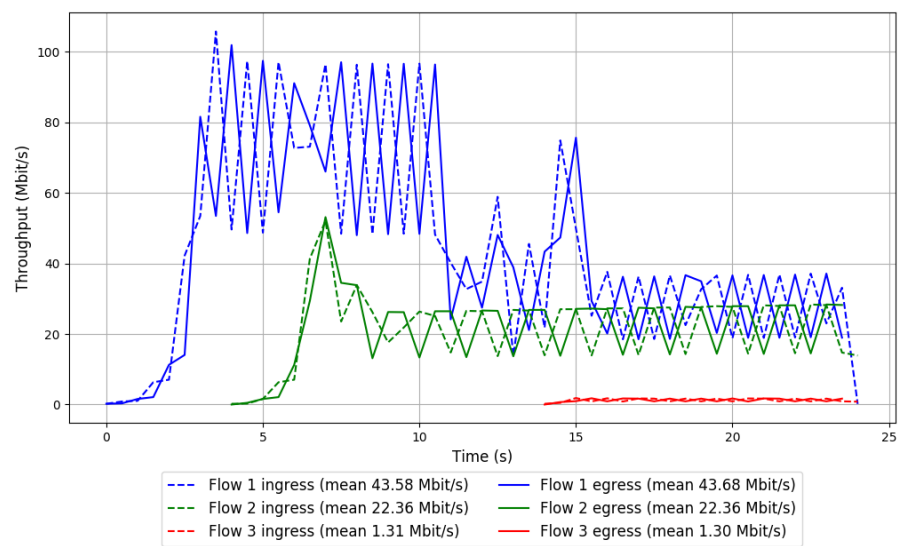


Run 8: Statistics of TCP Vegas

Start at: 2017-10-12 19:17:48

End at: 2017-10-12 19:18:18

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-12 19:31:36

End at: 2017-10-12 19:32:06

Below is generated by plot.py at 2017-10-12 22:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.29 Mbit/s

95th percentile per-packet one-way delay: 165.470 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 159.907 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 167.911 ms

Loss rate: 1.65%

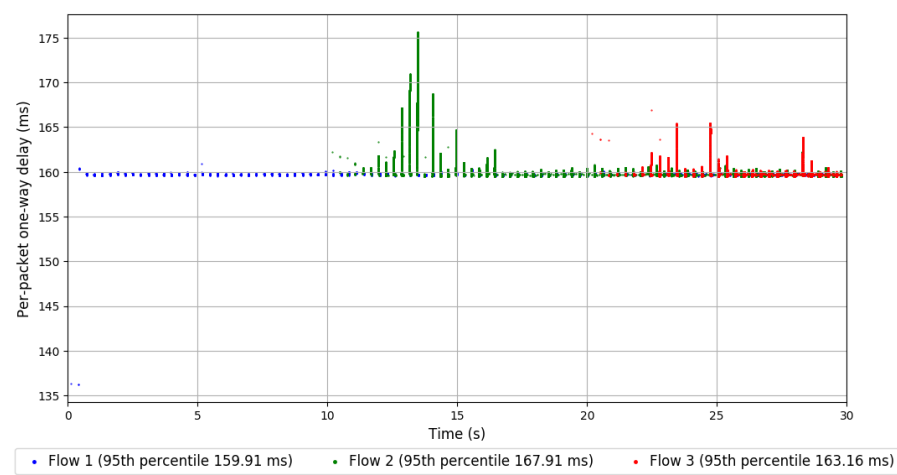
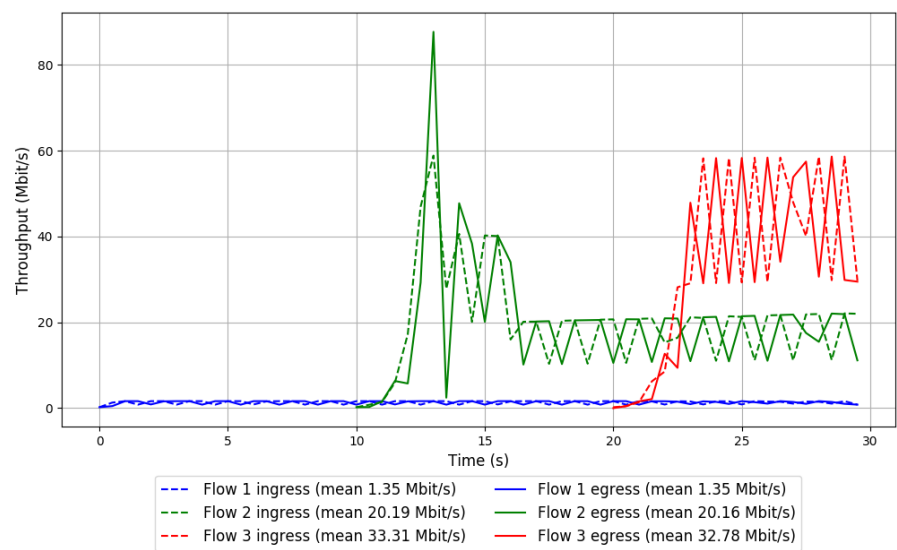
-- Flow 3:

Average throughput: 32.78 Mbit/s

95th percentile per-packet one-way delay: 163.165 ms

Loss rate: 4.46%

Run 9: Report of TCP Vegas — Data Link

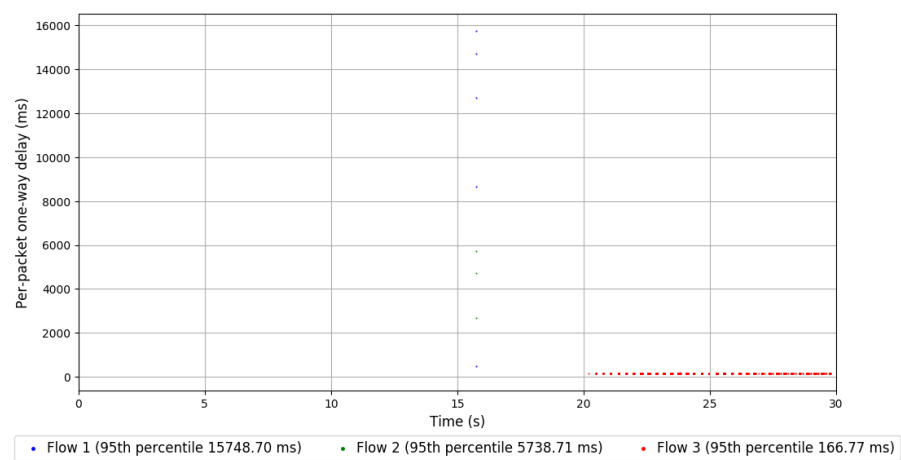
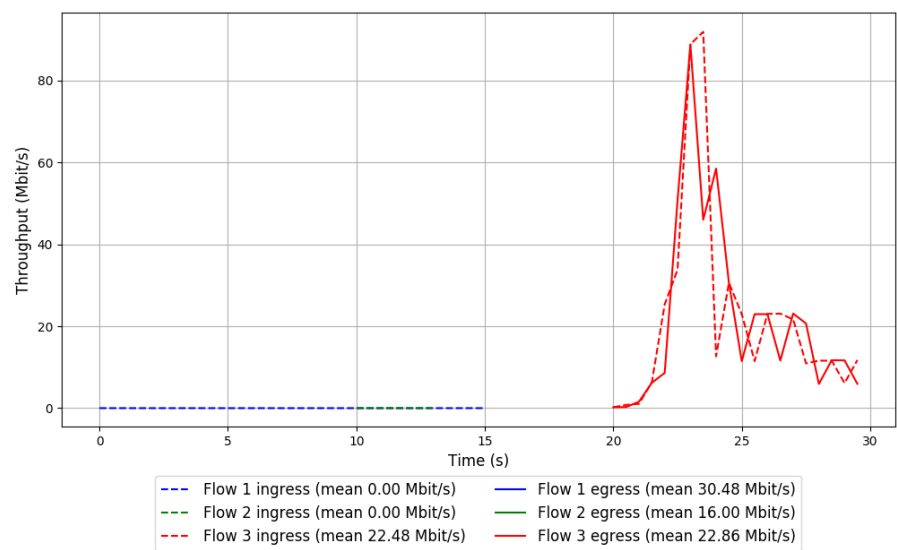


Run 10: Statistics of TCP Vegas

Start at: 2017-10-12 19:45:25

End at: 2017-10-12 19:45:55

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-10-12 17:44:37

End at: 2017-10-12 17:45:07

Below is generated by plot.py at 2017-10-12 22:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.35 Mbit/s

95th percentile per-packet one-way delay: 195.326 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 157.97 Mbit/s

95th percentile per-packet one-way delay: 195.976 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 150.29 Mbit/s

95th percentile per-packet one-way delay: 196.521 ms

Loss rate: 2.59%

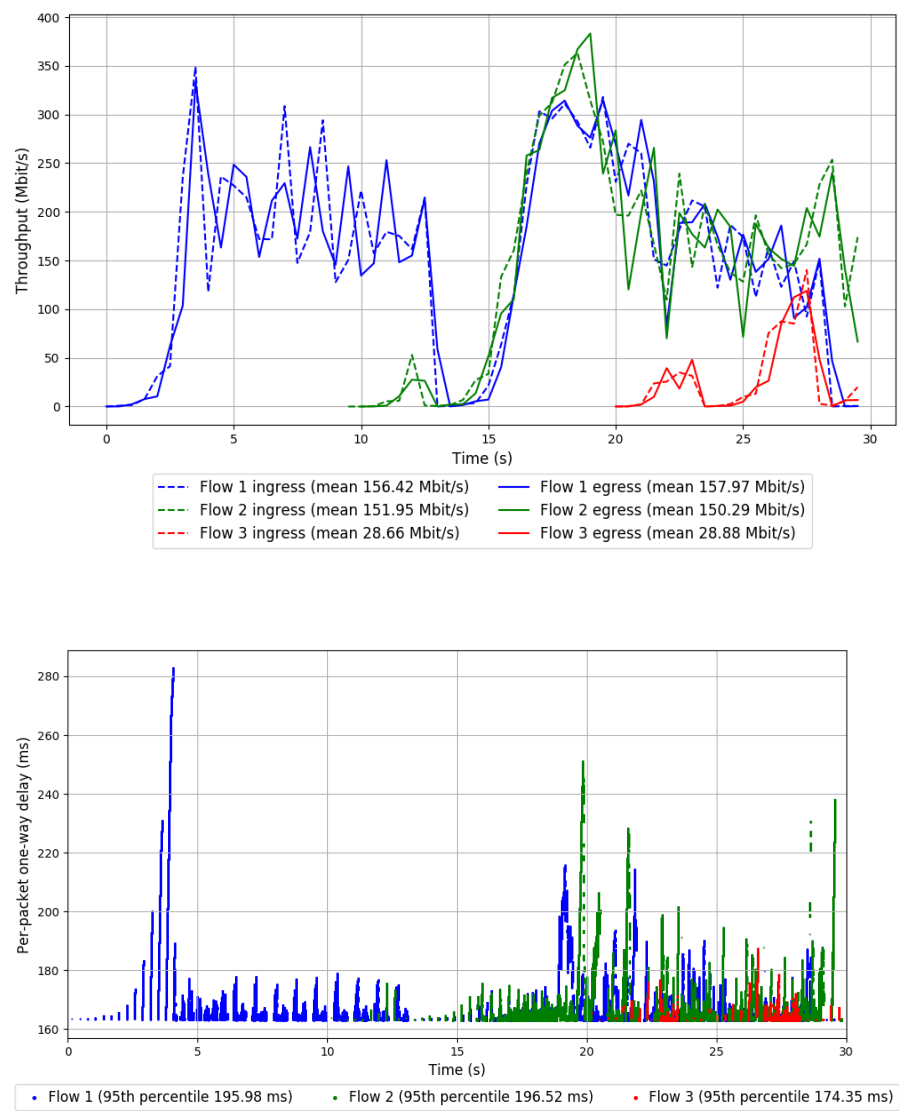
-- Flow 3:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 174.352 ms

Loss rate: 2.38%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-12 17:57:56

End at: 2017-10-12 17:58:26

Below is generated by plot.py at 2017-10-12 22:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.33 Mbit/s

95th percentile per-packet one-way delay: 194.308 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 179.78 Mbit/s

95th percentile per-packet one-way delay: 199.304 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 168.117 ms

Loss rate: 0.16%

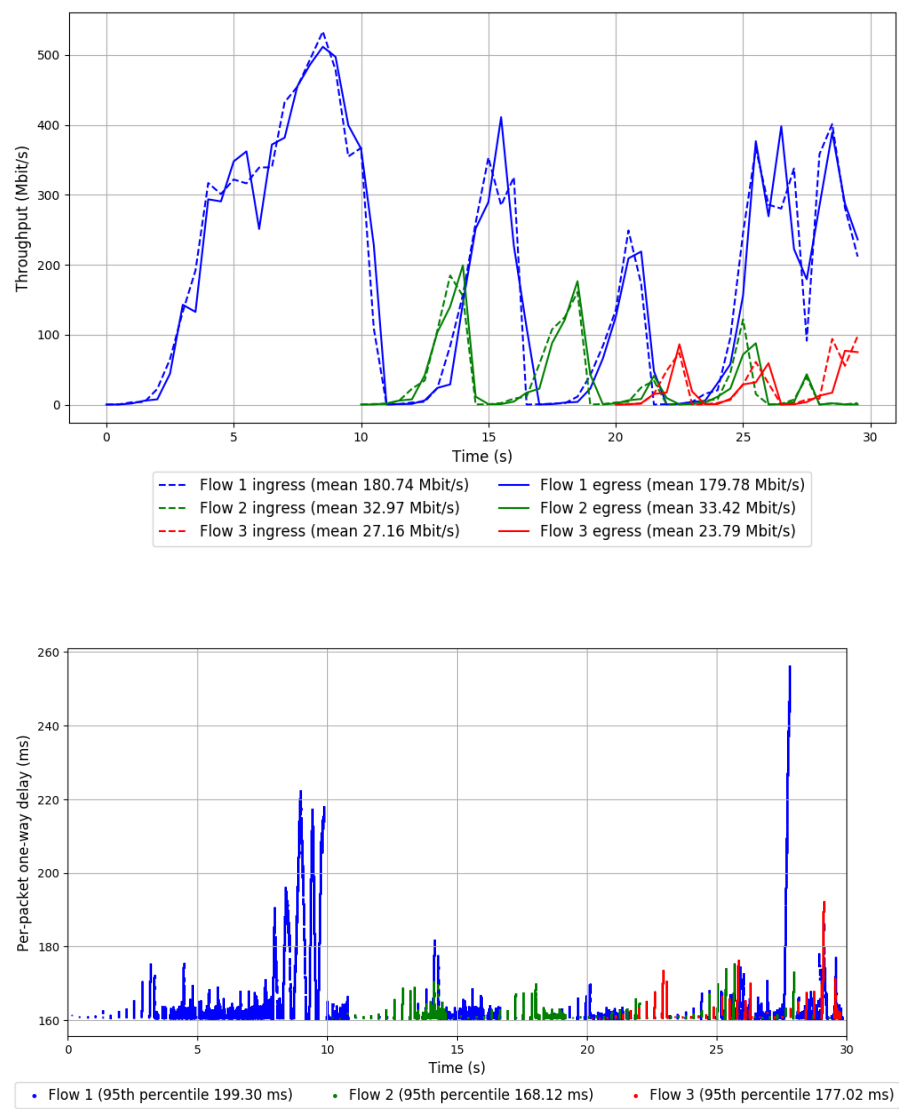
-- Flow 3:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 177.024 ms

Loss rate: 14.71%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-12 18:11:41

End at: 2017-10-12 18:12:11

Below is generated by plot.py at 2017-10-12 22:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.84 Mbit/s

95th percentile per-packet one-way delay: 228.620 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 97.72 Mbit/s

95th percentile per-packet one-way delay: 242.227 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 99.96 Mbit/s

95th percentile per-packet one-way delay: 205.192 ms

Loss rate: 2.51%

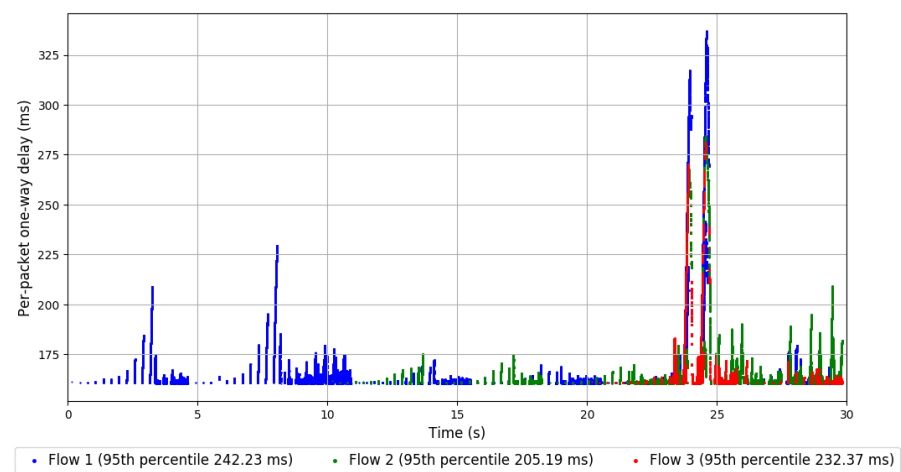
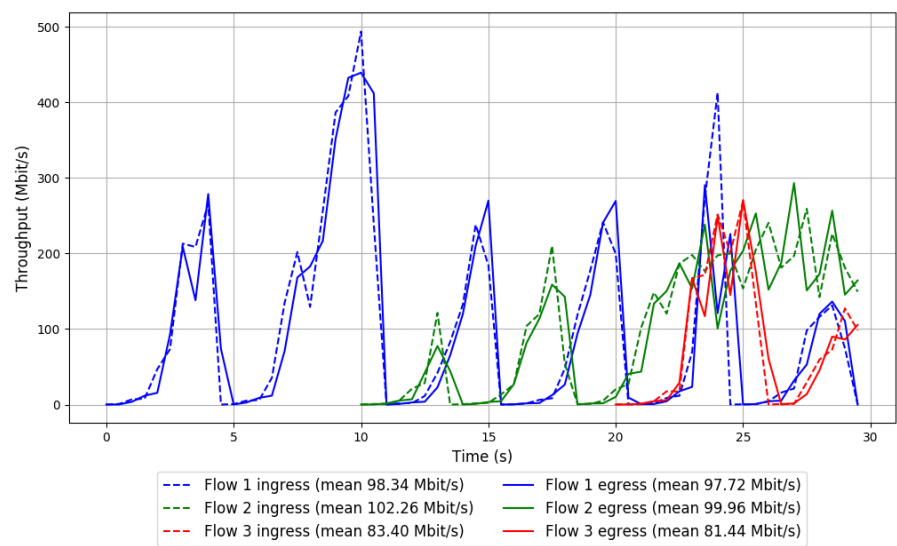
-- Flow 3:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 232.372 ms

Loss rate: 3.48%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-12 18:25:25

End at: 2017-10-12 18:25:55

Below is generated by plot.py at 2017-10-12 22:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.54 Mbit/s

95th percentile per-packet one-way delay: 244.910 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 182.70 Mbit/s

95th percentile per-packet one-way delay: 235.827 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 119.39 Mbit/s

95th percentile per-packet one-way delay: 264.492 ms

Loss rate: 0.01%

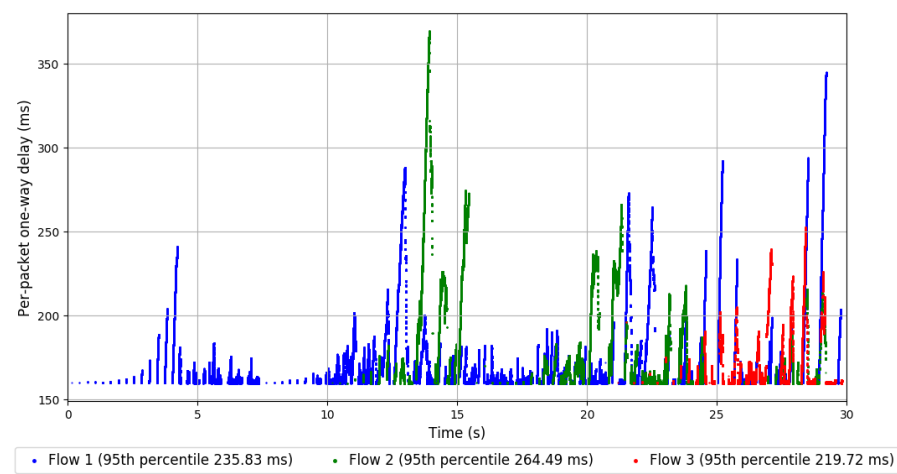
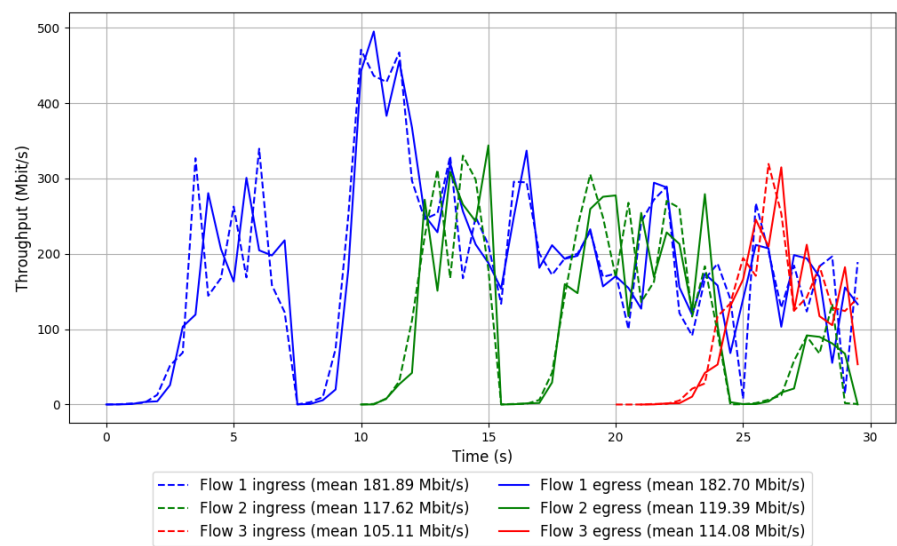
-- Flow 3:

Average throughput: 114.08 Mbit/s

95th percentile per-packet one-way delay: 219.724 ms

Loss rate: 5.73%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-12 18:39:01

End at: 2017-10-12 18:39:31

Below is generated by plot.py at 2017-10-12 22:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.23 Mbit/s

95th percentile per-packet one-way delay: 184.693 ms

Loss rate: 3.38%

-- Flow 1:

Average throughput: 69.83 Mbit/s

95th percentile per-packet one-way delay: 165.614 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 168.618 ms

Loss rate: 0.14%

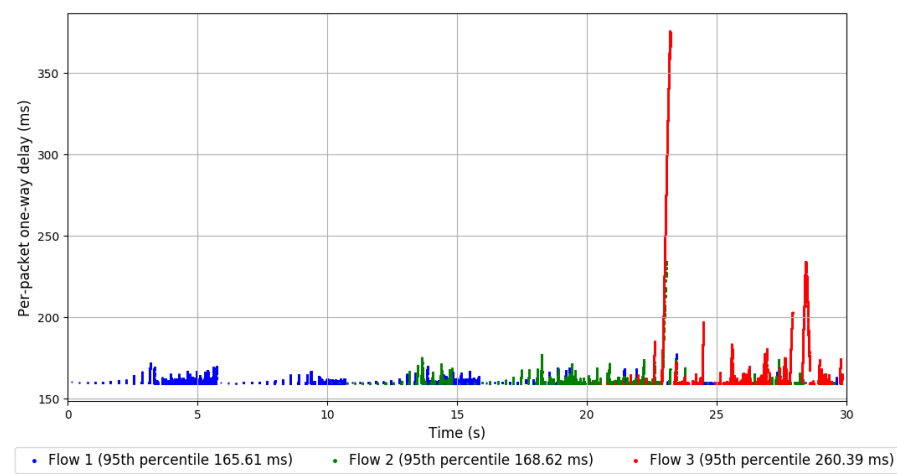
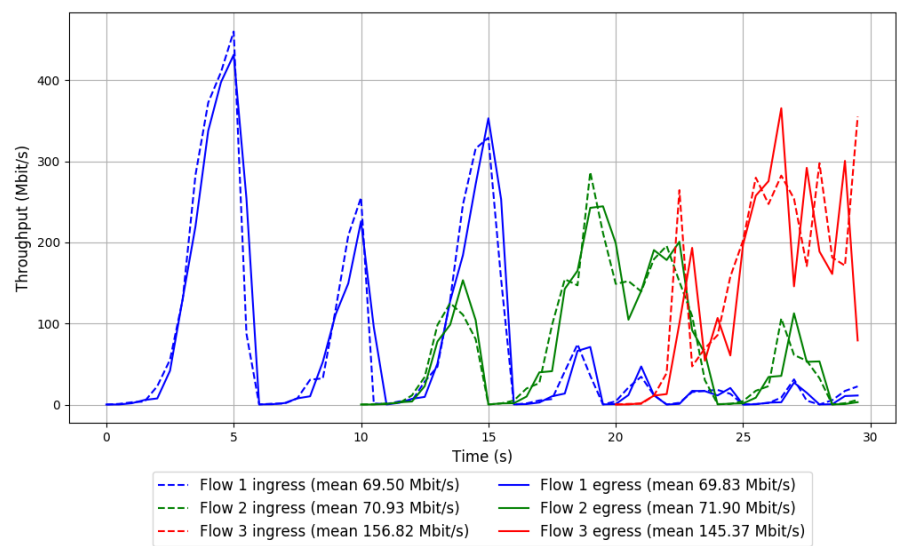
-- Flow 3:

Average throughput: 145.37 Mbit/s

95th percentile per-packet one-way delay: 260.392 ms

Loss rate: 10.08%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-12 18:53:25

End at: 2017-10-12 18:53:55

Below is generated by plot.py at 2017-10-12 22:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.48 Mbit/s

95th percentile per-packet one-way delay: 272.227 ms

Loss rate: 4.34%

-- Flow 1:

Average throughput: 132.64 Mbit/s

95th percentile per-packet one-way delay: 200.663 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 58.47 Mbit/s

95th percentile per-packet one-way delay: 201.891 ms

Loss rate: 0.63%

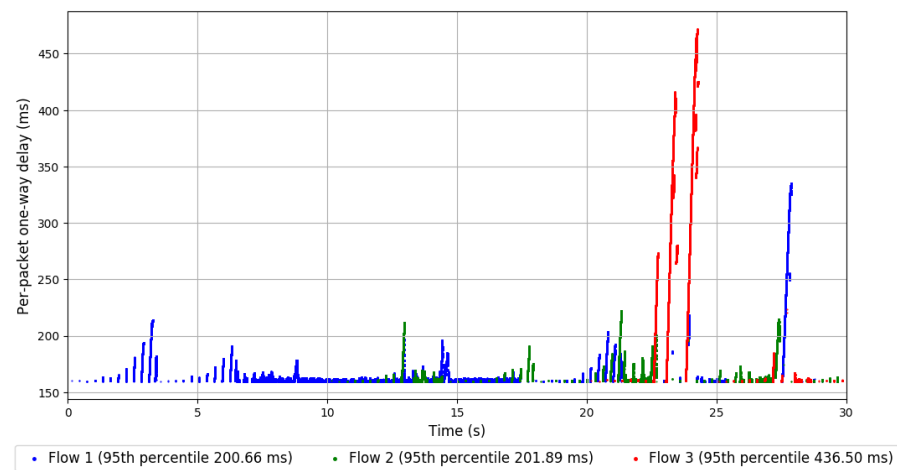
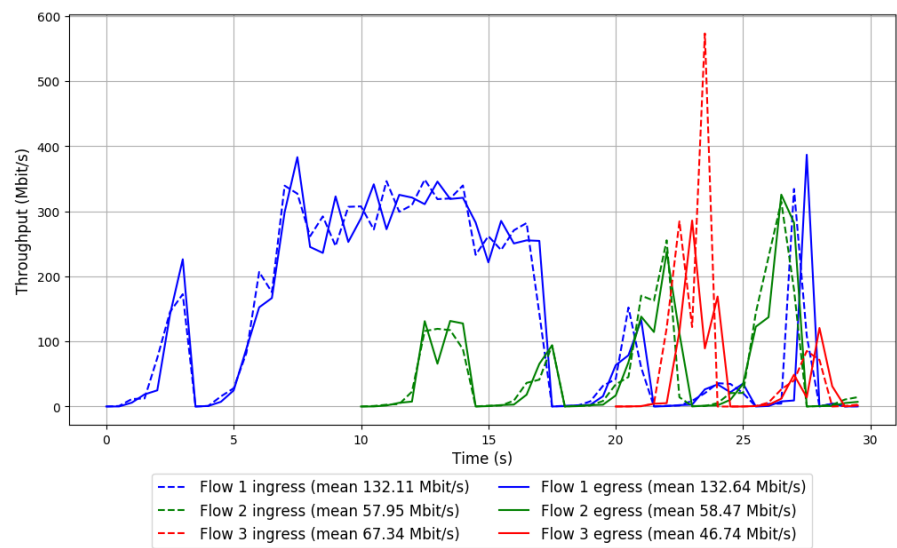
-- Flow 3:

Average throughput: 46.74 Mbit/s

95th percentile per-packet one-way delay: 436.498 ms

Loss rate: 32.66%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-12 19:06:51

End at: 2017-10-12 19:07:21

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.36 Mbit/s

95th percentile per-packet one-way delay: 211.762 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 201.166 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 117.29 Mbit/s

95th percentile per-packet one-way delay: 202.044 ms

Loss rate: 0.04%

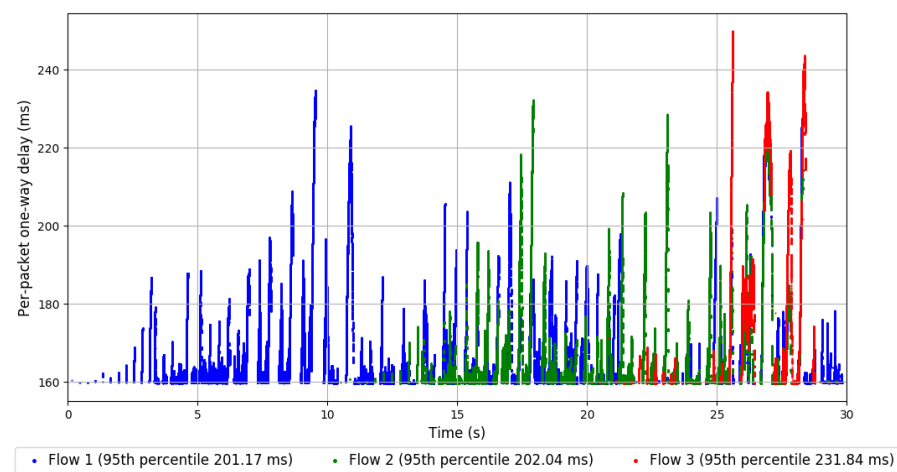
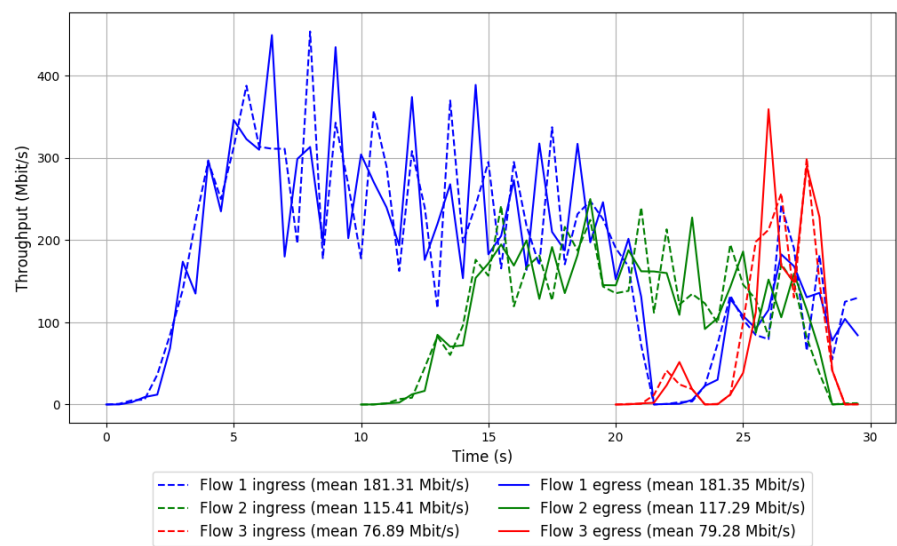
-- Flow 3:

Average throughput: 79.28 Mbit/s

95th percentile per-packet one-way delay: 231.837 ms

Loss rate: 0.03%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-12 19:20:47

End at: 2017-10-12 19:21:17

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.73 Mbit/s

95th percentile per-packet one-way delay: 279.986 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 168.02 Mbit/s

95th percentile per-packet one-way delay: 274.306 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 188.965 ms

Loss rate: 0.32%

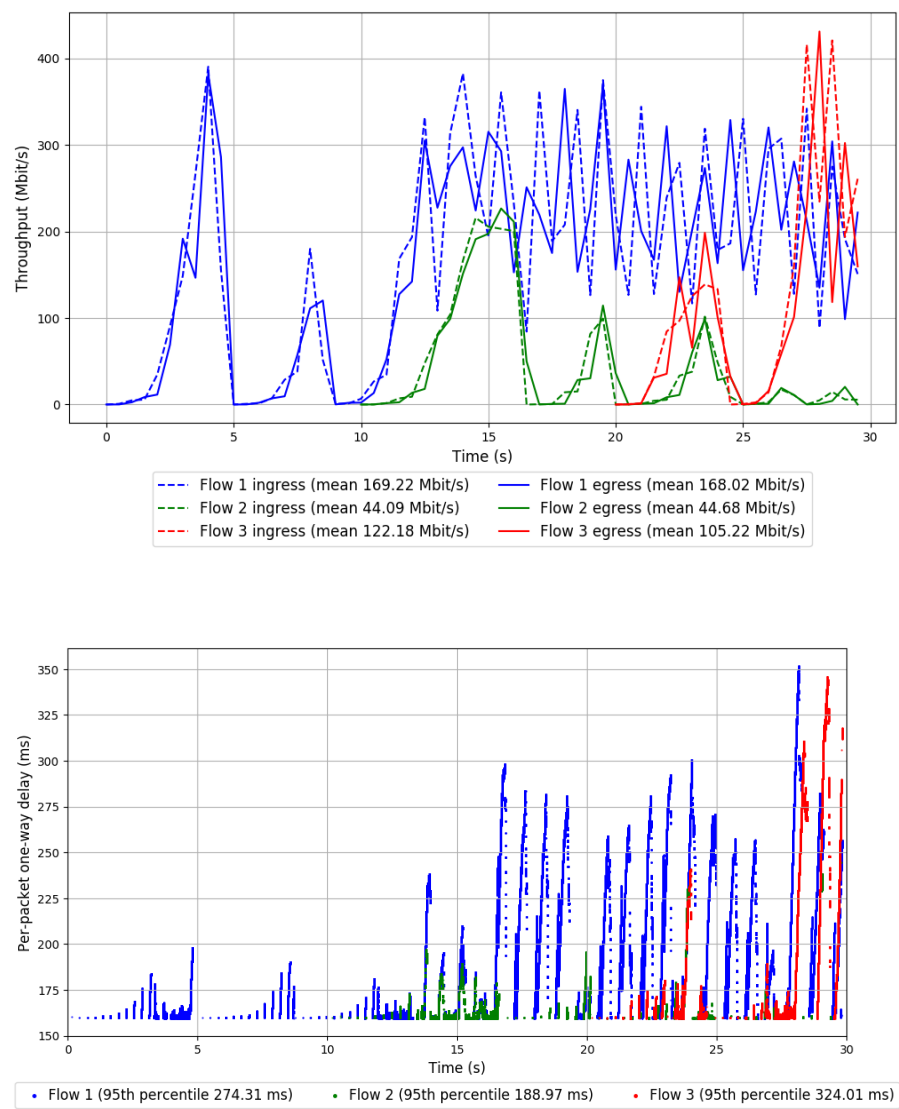
-- Flow 3:

Average throughput: 105.22 Mbit/s

95th percentile per-packet one-way delay: 324.008 ms

Loss rate: 14.85%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-12 19:34:31

End at: 2017-10-12 19:35:01

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.11 Mbit/s

95th percentile per-packet one-way delay: 223.461 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 174.05 Mbit/s

95th percentile per-packet one-way delay: 202.530 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 277.655 ms

Loss rate: 2.74%

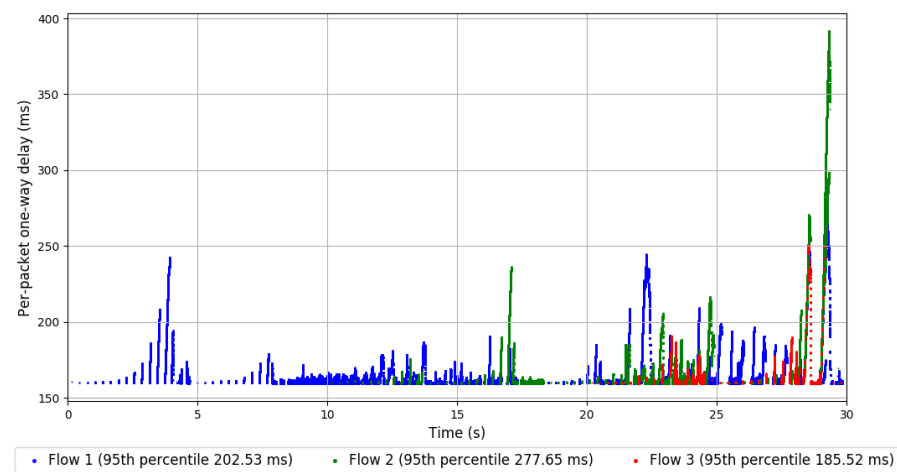
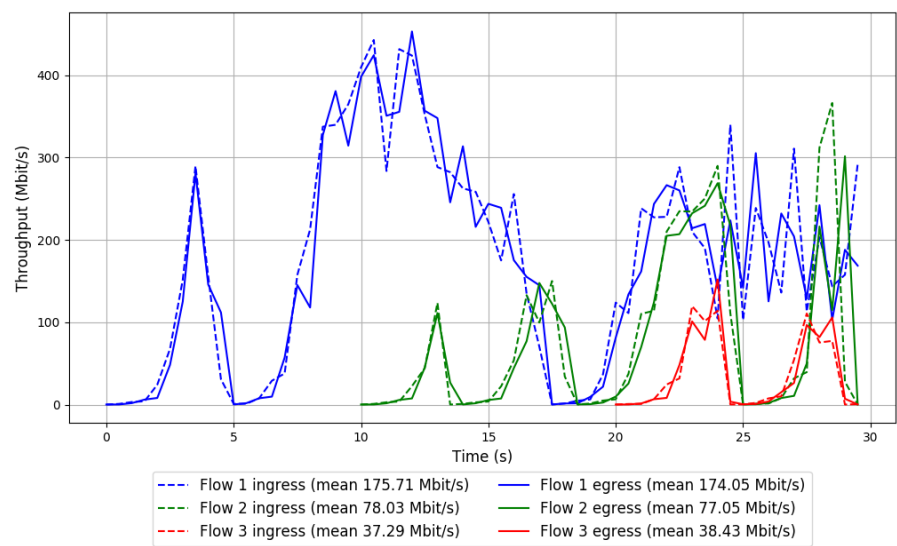
-- Flow 3:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 185.516 ms

Loss rate: 0.05%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-12 19:48:20

End at: 2017-10-12 19:48:50

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.44 Mbit/s

95th percentile per-packet one-way delay: 199.766 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 104.54 Mbit/s

95th percentile per-packet one-way delay: 199.706 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 117.69 Mbit/s

95th percentile per-packet one-way delay: 203.937 ms

Loss rate: 0.00%

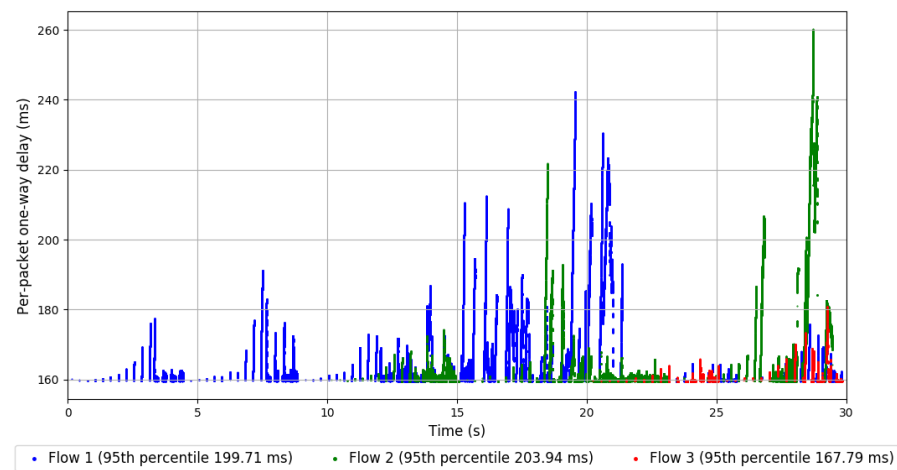
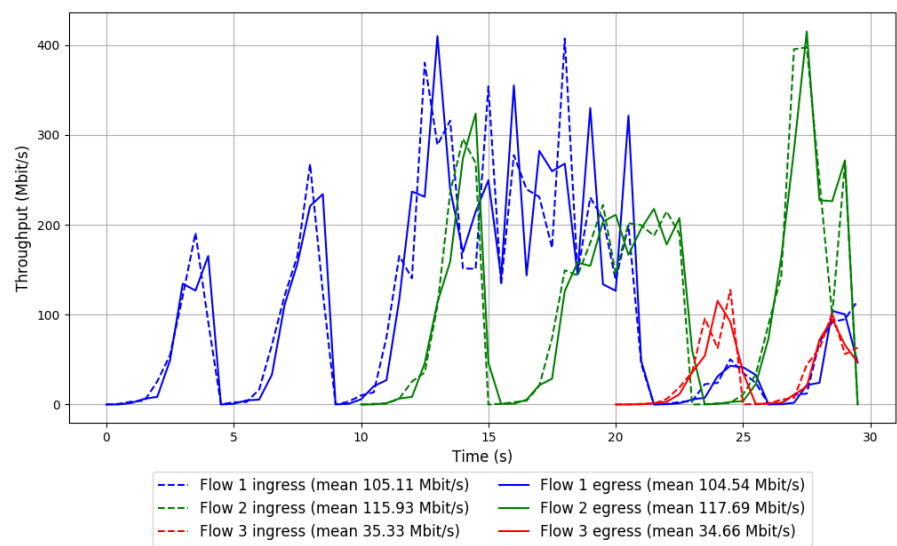
-- Flow 3:

Average throughput: 34.66 Mbit/s

95th percentile per-packet one-way delay: 167.790 ms

Loss rate: 3.98%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-10-12 17:34:25

End at: 2017-10-12 17:34:55

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.43 Mbit/s

95th percentile per-packet one-way delay: 163.156 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 163.151 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 163.161 ms

Loss rate: 1.67%

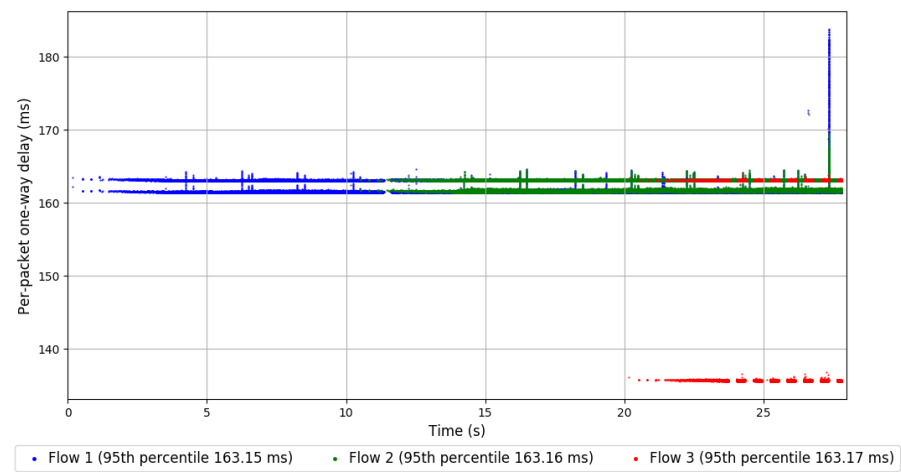
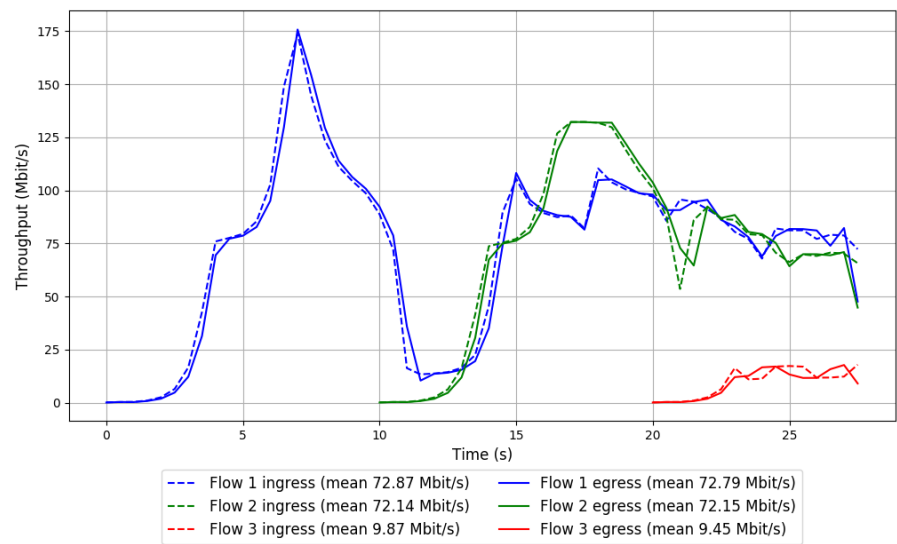
-- Flow 3:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 163.167 ms

Loss rate: 5.74%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-12 17:48:36

End at: 2017-10-12 17:49:06

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.79 Mbit/s

95th percentile per-packet one-way delay: 163.175 ms

Loss rate: 9.40%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 163.317 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 163.177 ms

Loss rate: 2.95%

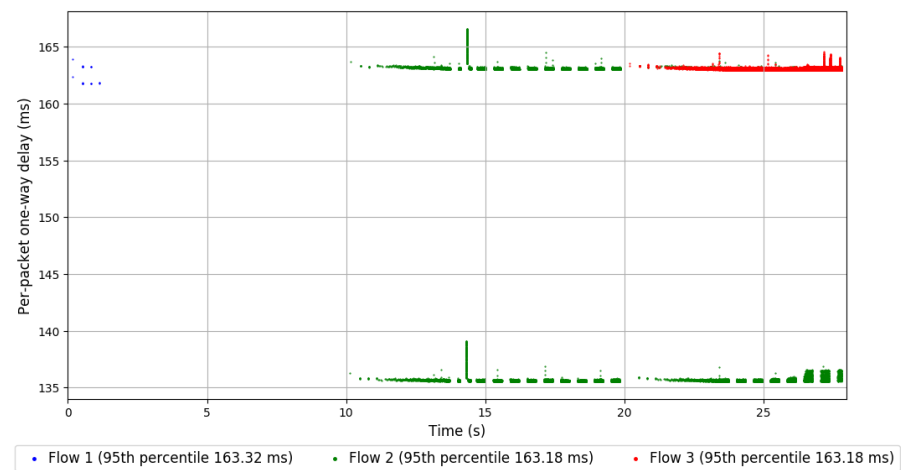
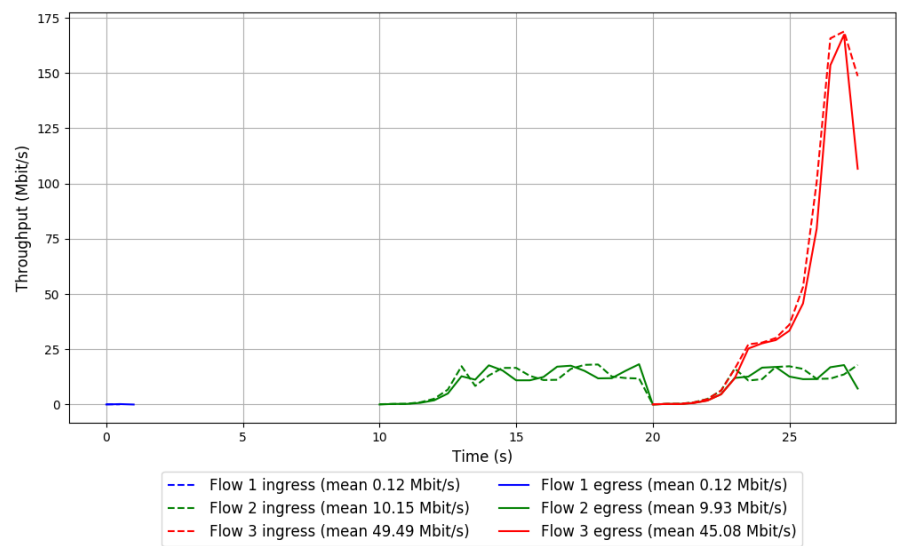
-- Flow 3:

Average throughput: 45.08 Mbit/s

95th percentile per-packet one-way delay: 163.175 ms

Loss rate: 12.38%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-12 18:02:04

End at: 2017-10-12 18:02:34

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 160.878 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 160.879 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 162.115 ms

Loss rate: 0.00%

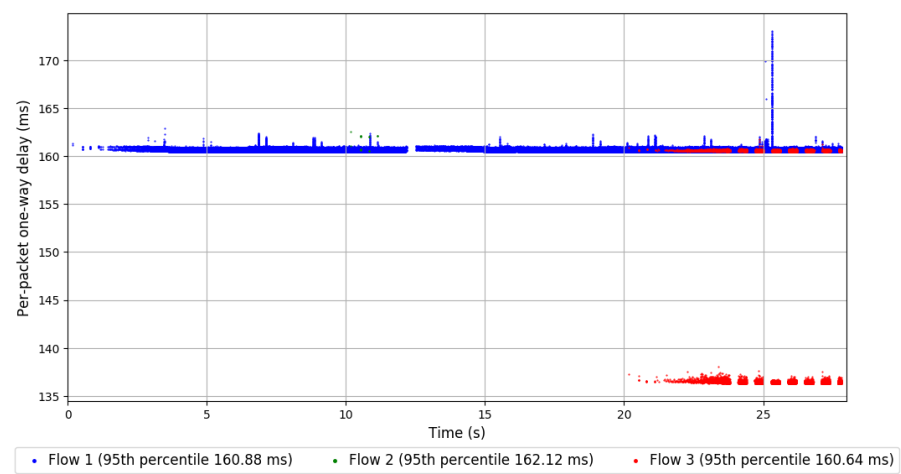
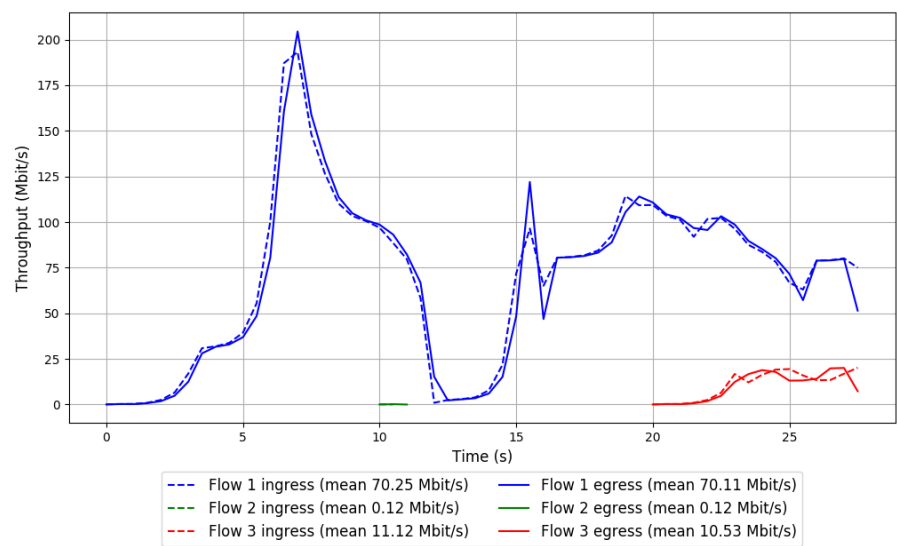
-- Flow 3:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: 160.637 ms

Loss rate: 7.38%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-12 18:15:33

End at: 2017-10-12 18:16:03

Below is generated by plot.py at 2017-10-12 22:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 160.854 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 67.43 Mbit/s

95th percentile per-packet one-way delay: 160.738 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 160.635 ms

Loss rate: 0.85%

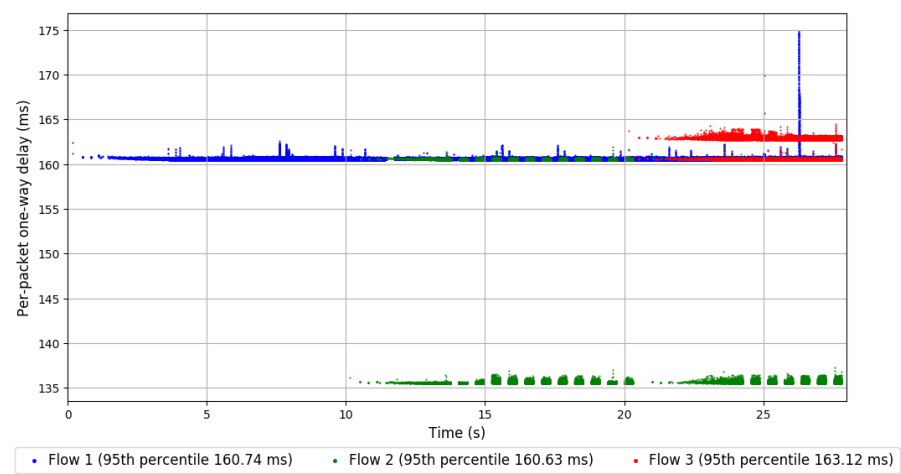
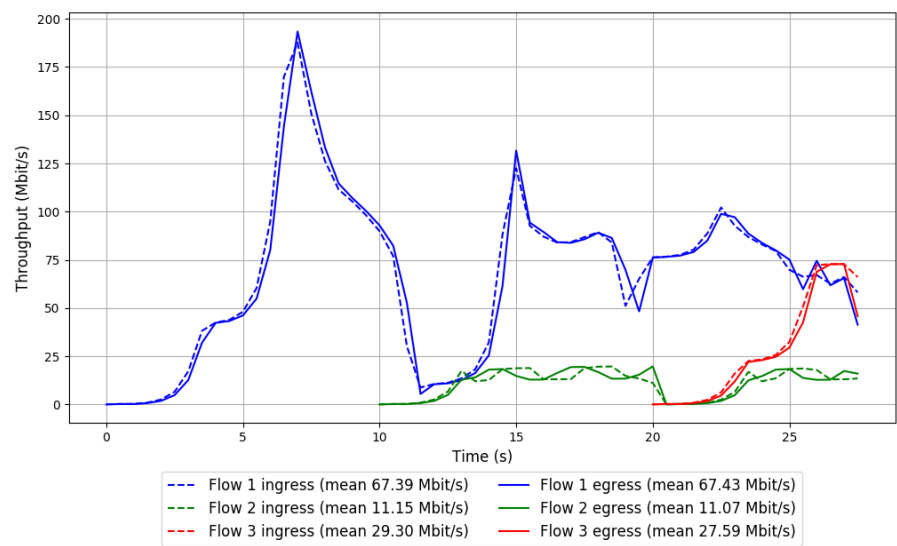
-- Flow 3:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 163.119 ms

Loss rate: 9.35%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-12 18:29:31

End at: 2017-10-12 18:30:01

Below is generated by plot.py at 2017-10-12 22:33:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 159.689 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 164.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 159.667 ms

Loss rate: 1.79%

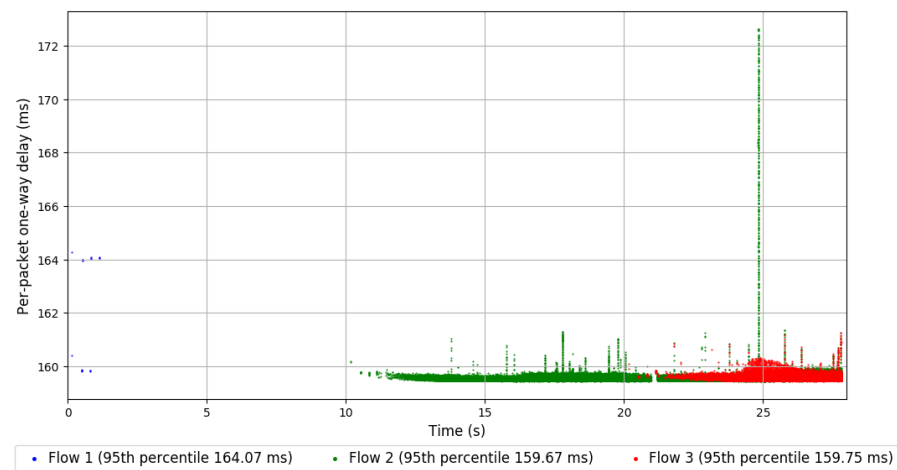
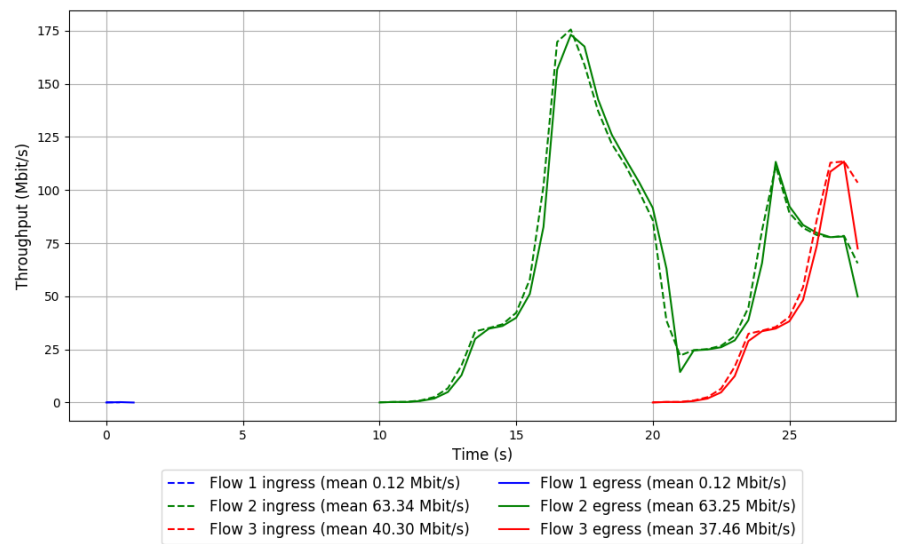
-- Flow 3:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 159.755 ms

Loss rate: 10.51%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-12 18:43:20

End at: 2017-10-12 18:43:50

Below is generated by plot.py at 2017-10-12 22:33:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 159.627 ms

Loss rate: 4.19%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 159.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.00 Mbit/s

95th percentile per-packet one-way delay: 159.618 ms

Loss rate: 3.66%

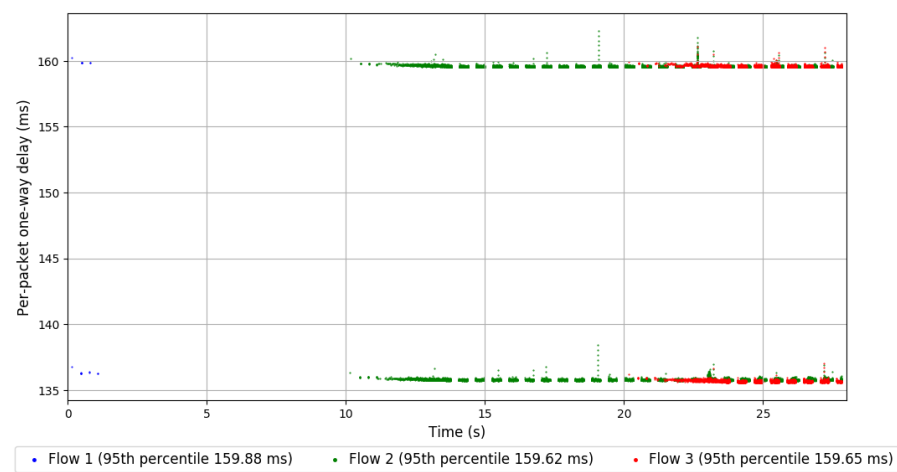
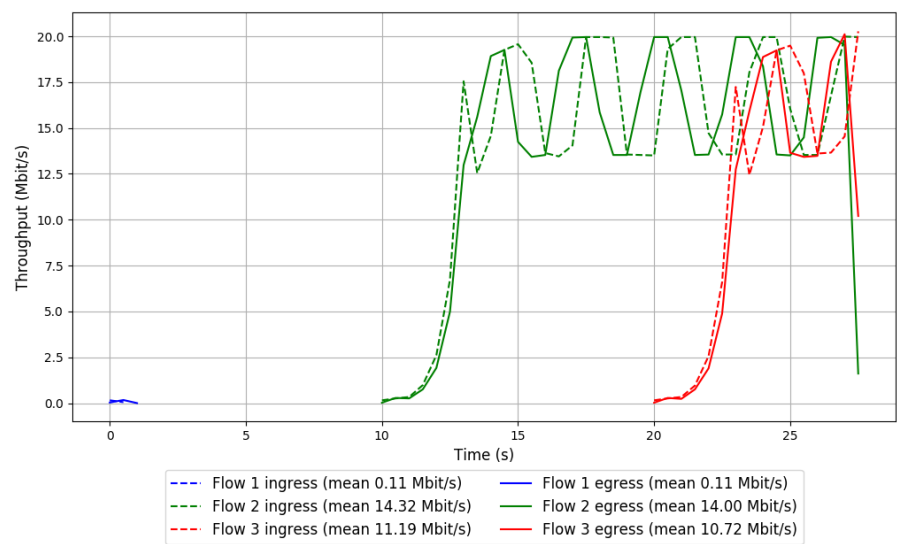
-- Flow 3:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 159.649 ms

Loss rate: 5.77%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-12 18:57:23

End at: 2017-10-12 18:57:53

Below is generated by plot.py at 2017-10-12 22:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 163.102 ms

Loss rate: 3.17%

-- Flow 1:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 163.112 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 163.098 ms

Loss rate: 3.47%

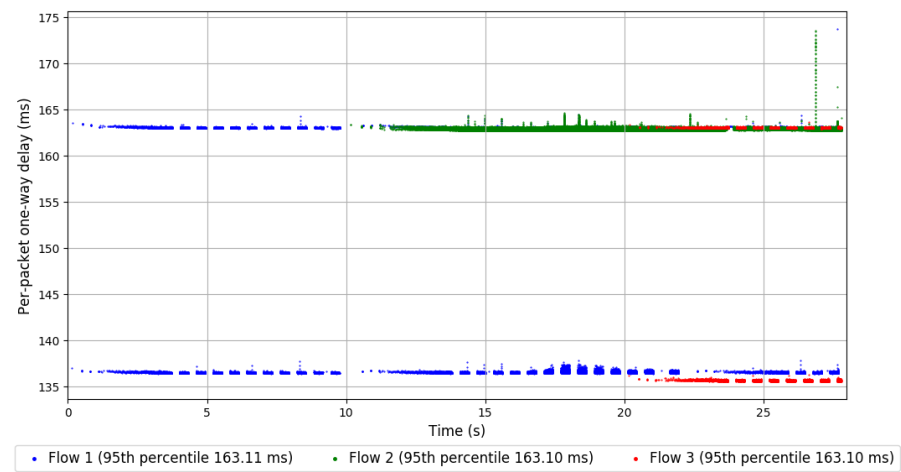
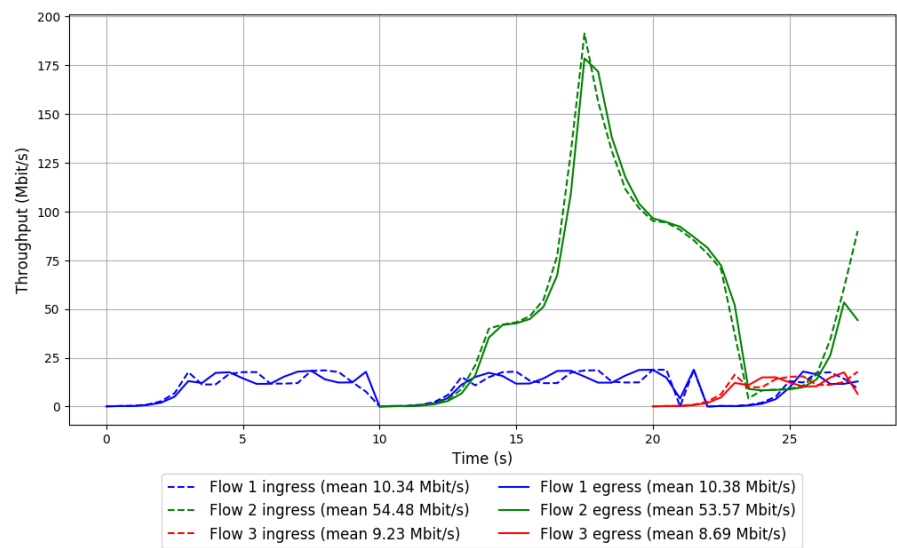
-- Flow 3:

Average throughput: 8.69 Mbit/s

95th percentile per-packet one-way delay: 163.105 ms

Loss rate: 7.93%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-12 19:10:56

End at: 2017-10-12 19:11:26

Below is generated by plot.py at 2017-10-12 22:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.23 Mbit/s

95th percentile per-packet one-way delay: 163.955 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 163.960 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 159.689 ms

Loss rate: 0.52%

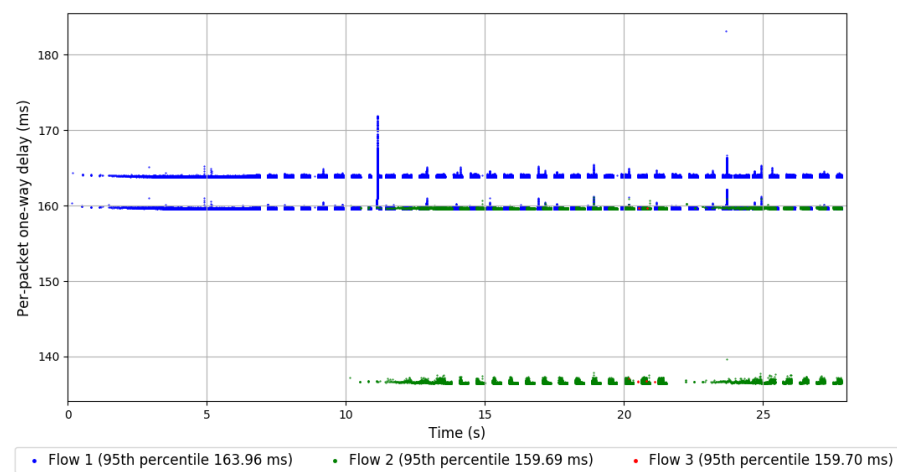
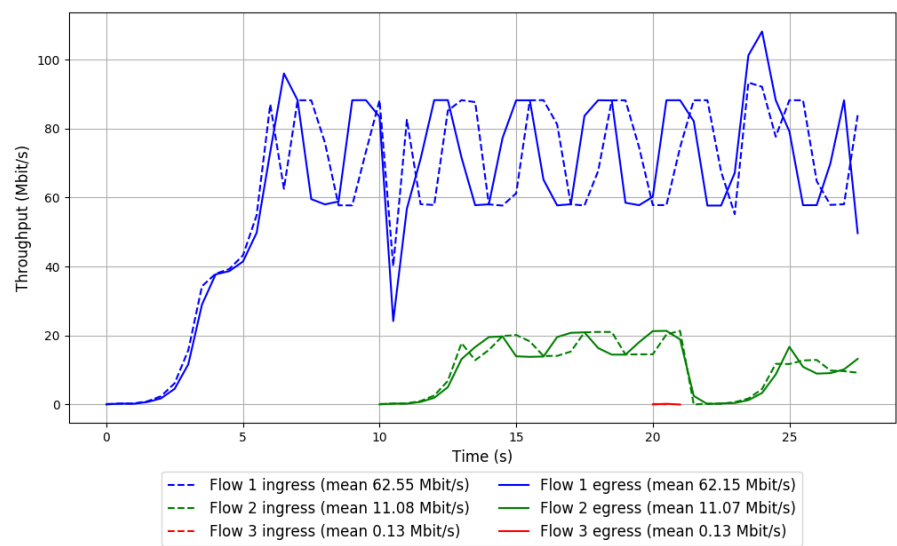
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 159.702 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-12 19:25:01

End at: 2017-10-12 19:25:31

Below is generated by plot.py at 2017-10-12 22:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 163.911 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 163.915 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 161.863 ms

Loss rate: 0.00%

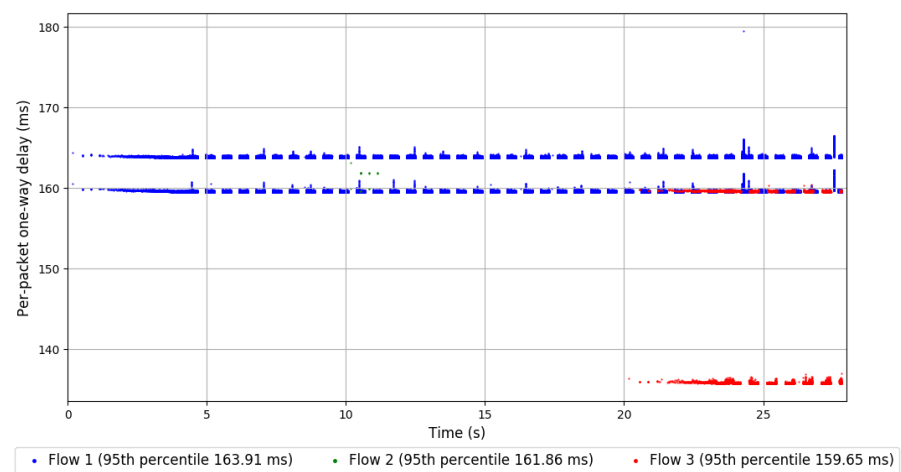
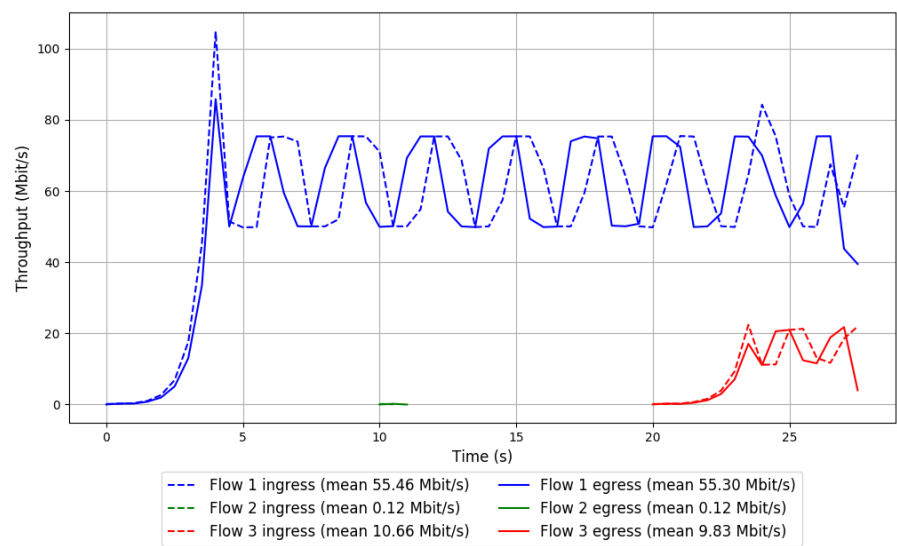
-- Flow 3:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 159.649 ms

Loss rate: 10.64%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-12 19:38:36

End at: 2017-10-12 19:39:06

Below is generated by plot.py at 2017-10-12 22:35:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.30 Mbit/s

95th percentile per-packet one-way delay: 161.834 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 161.362 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 161.983 ms

Loss rate: 2.08%

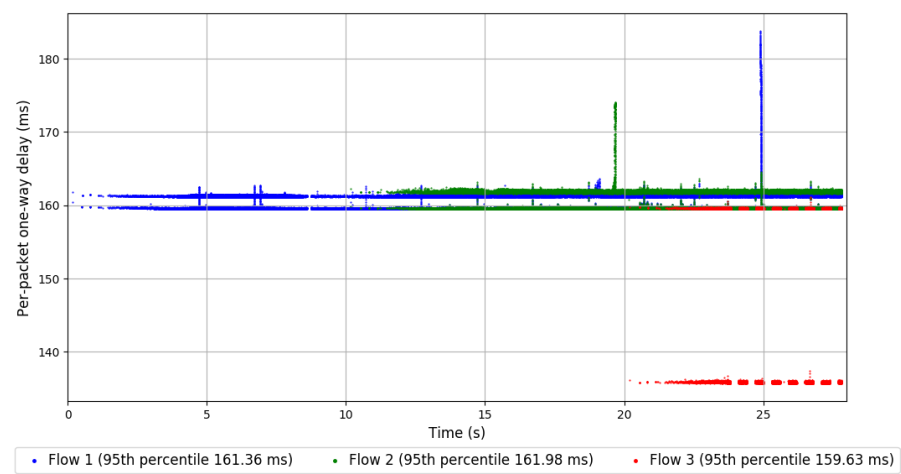
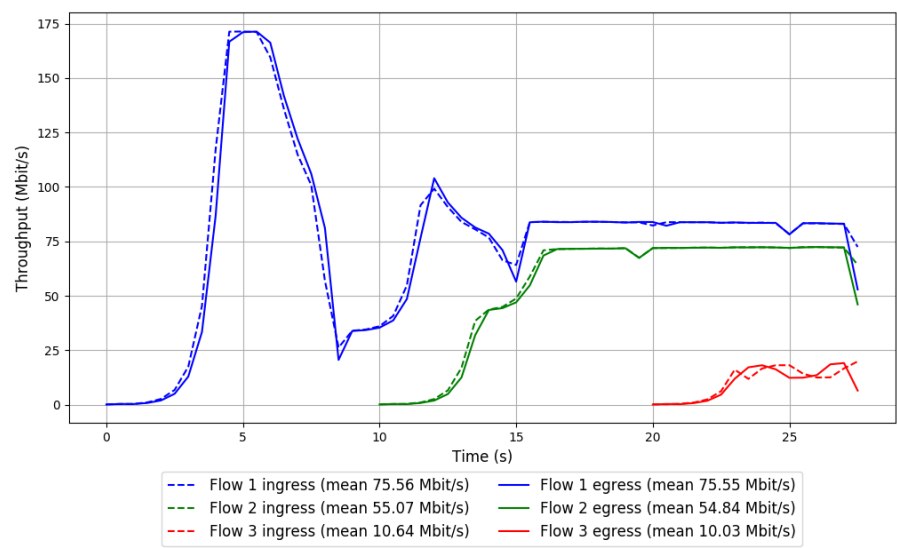
-- Flow 3:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 159.635 ms

Loss rate: 8.04%

Run 10: Report of Copa — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-10-12 17:42:33

End at: 2017-10-12 17:43:03

Below is generated by plot.py at 2017-10-12 22:36:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.10 Mbit/s

95th percentile per-packet one-way delay: 178.263 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 196.99 Mbit/s

95th percentile per-packet one-way delay: 178.489 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 177.404 ms

Loss rate: 5.03%

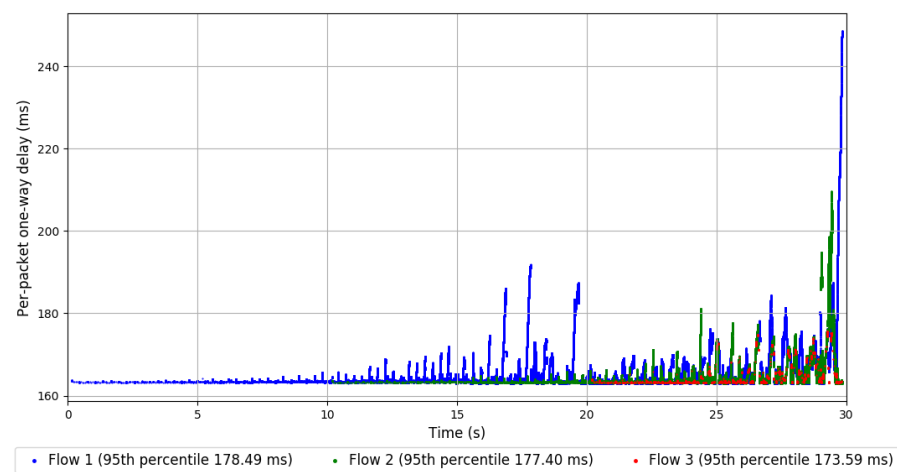
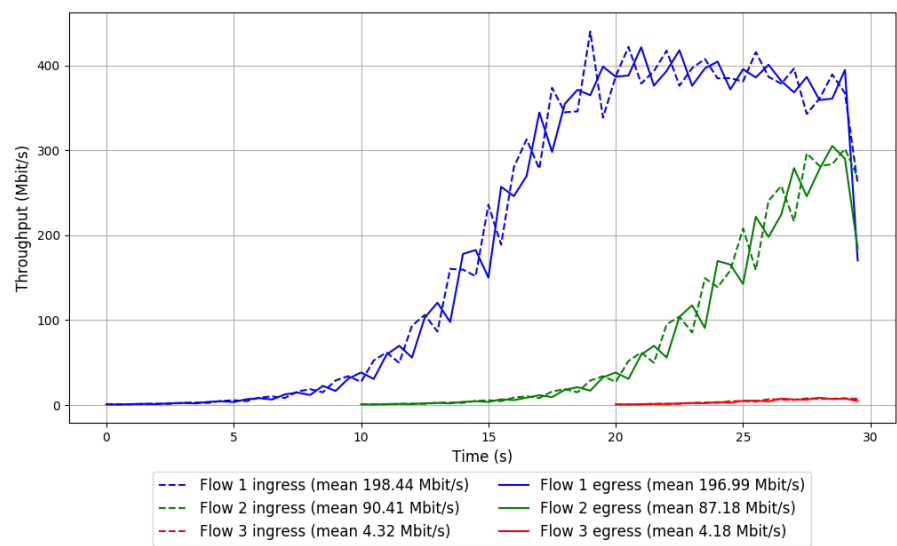
-- Flow 3:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 173.592 ms

Loss rate: 6.21%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-12 17:55:53

End at: 2017-10-12 17:56:23

Below is generated by plot.py at 2017-10-12 22:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.09 Mbit/s

95th percentile per-packet one-way delay: 173.264 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 197.59 Mbit/s

95th percentile per-packet one-way delay: 172.656 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 179.873 ms

Loss rate: 5.17%

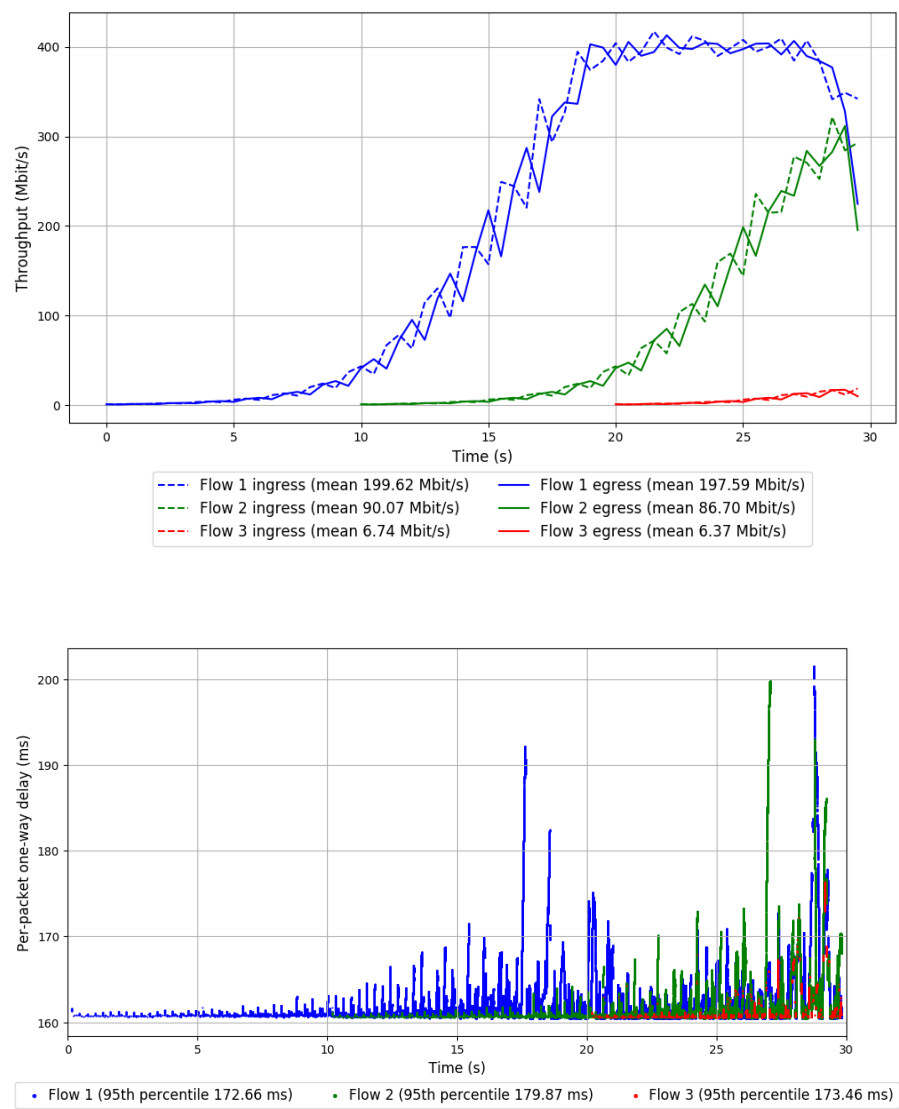
-- Flow 3:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 173.463 ms

Loss rate: 8.23%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-12 18:09:38

End at: 2017-10-12 18:10:08

Below is generated by plot.py at 2017-10-12 22:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.07 Mbit/s

95th percentile per-packet one-way delay: 208.613 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 190.79 Mbit/s

95th percentile per-packet one-way delay: 217.675 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 190.491 ms

Loss rate: 5.94%

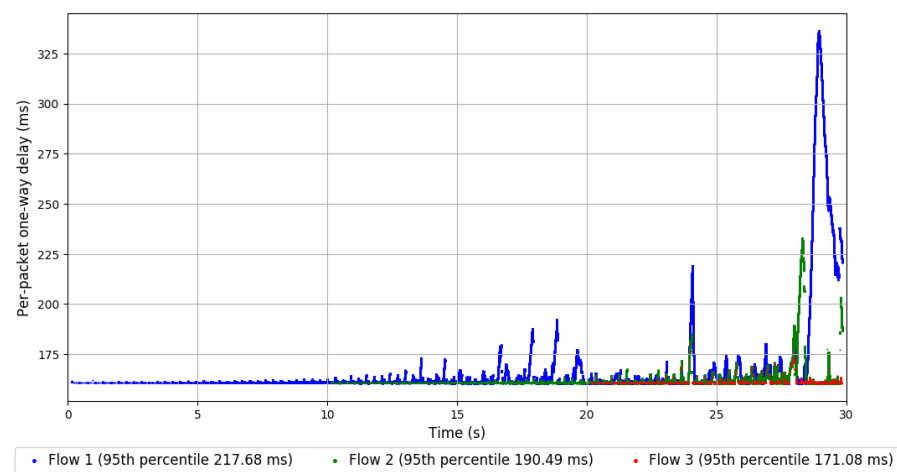
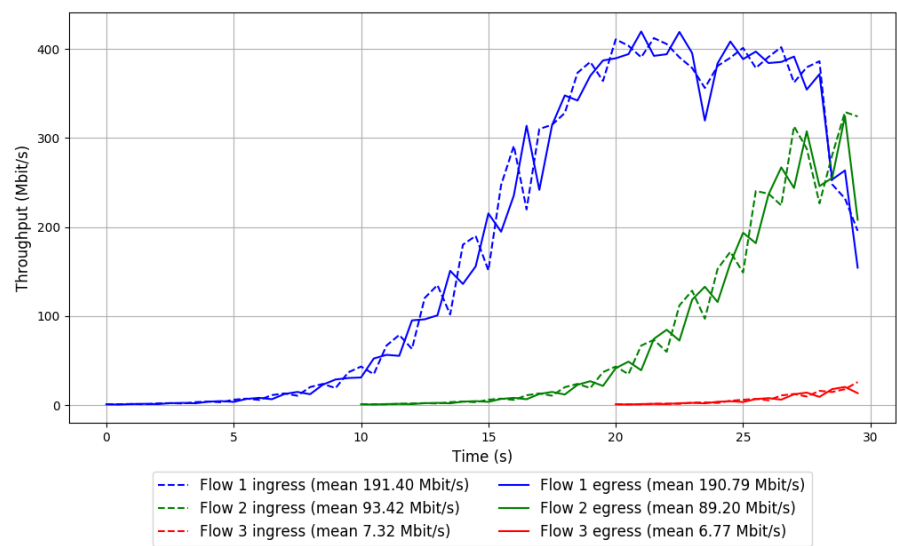
-- Flow 3:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 171.077 ms

Loss rate: 10.36%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-12 18:23:22

End at: 2017-10-12 18:23:52

Below is generated by plot.py at 2017-10-12 22:37:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.88 Mbit/s

95th percentile per-packet one-way delay: 193.874 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 193.26 Mbit/s

95th percentile per-packet one-way delay: 205.760 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 172.798 ms

Loss rate: 6.01%

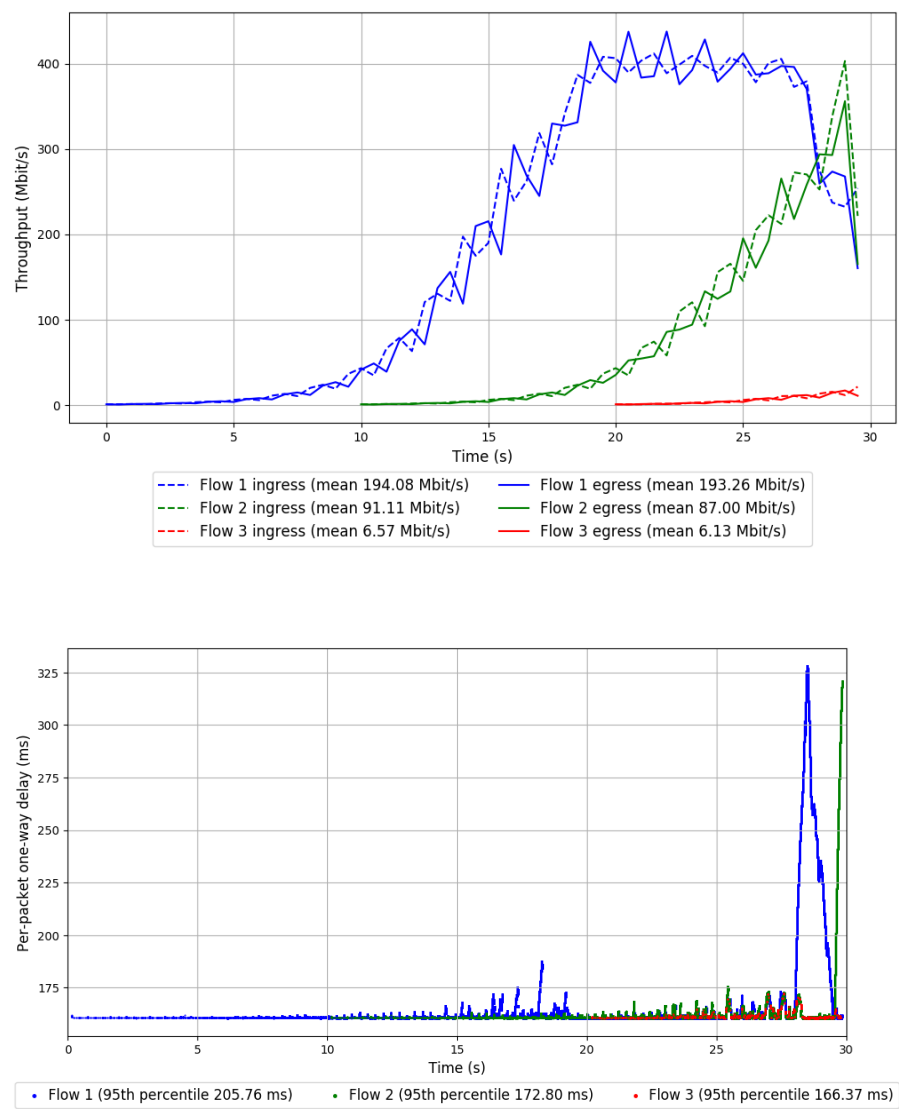
-- Flow 3:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 166.371 ms

Loss rate: 9.46%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-12 18:36:58

End at: 2017-10-12 18:37:28

Below is generated by plot.py at 2017-10-12 22:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.11 Mbit/s

95th percentile per-packet one-way delay: 168.917 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 199.86 Mbit/s

95th percentile per-packet one-way delay: 168.754 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 169.357 ms

Loss rate: 4.76%

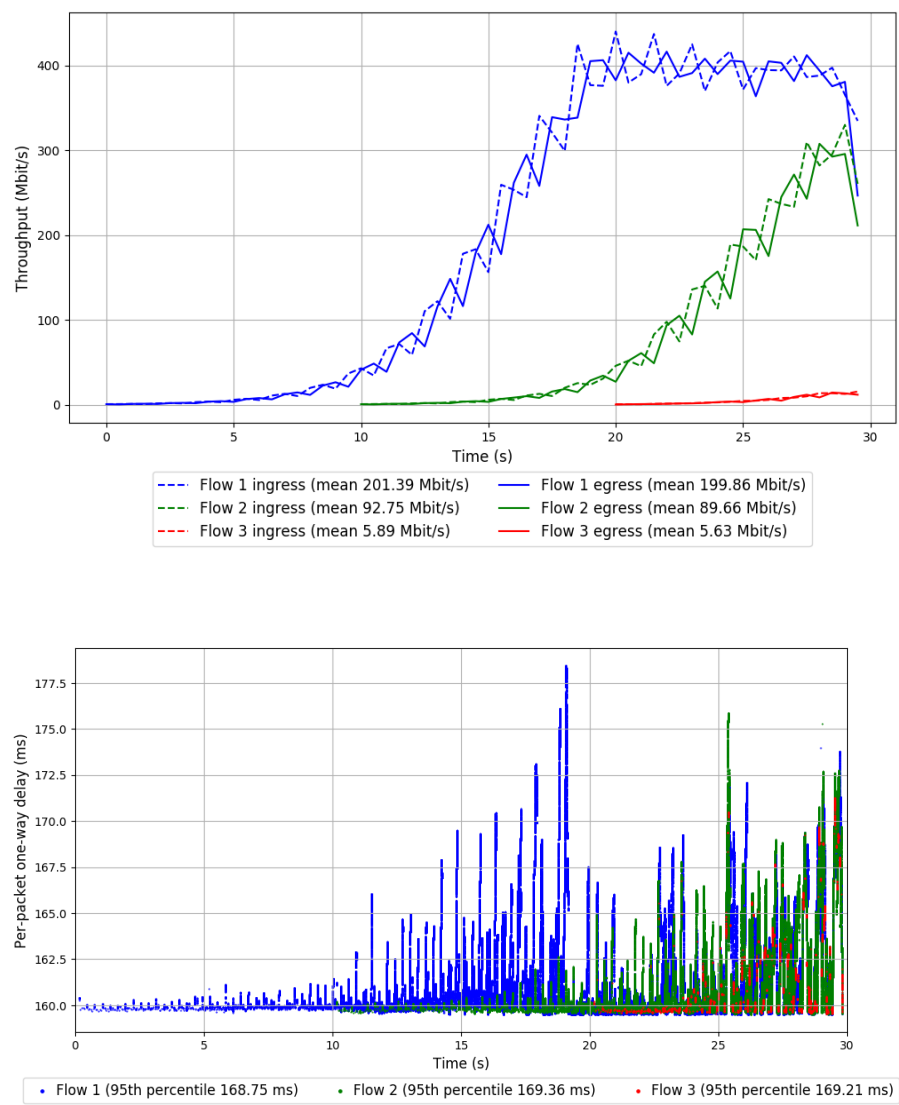
-- Flow 3:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 169.214 ms

Loss rate: 7.36%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-12 18:51:18

End at: 2017-10-12 18:51:48

Below is generated by plot.py at 2017-10-12 22:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.56 Mbit/s

95th percentile per-packet one-way delay: 200.939 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 224.51 Mbit/s

95th percentile per-packet one-way delay: 187.844 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 104.78 Mbit/s

95th percentile per-packet one-way delay: 224.022 ms

Loss rate: 3.76%

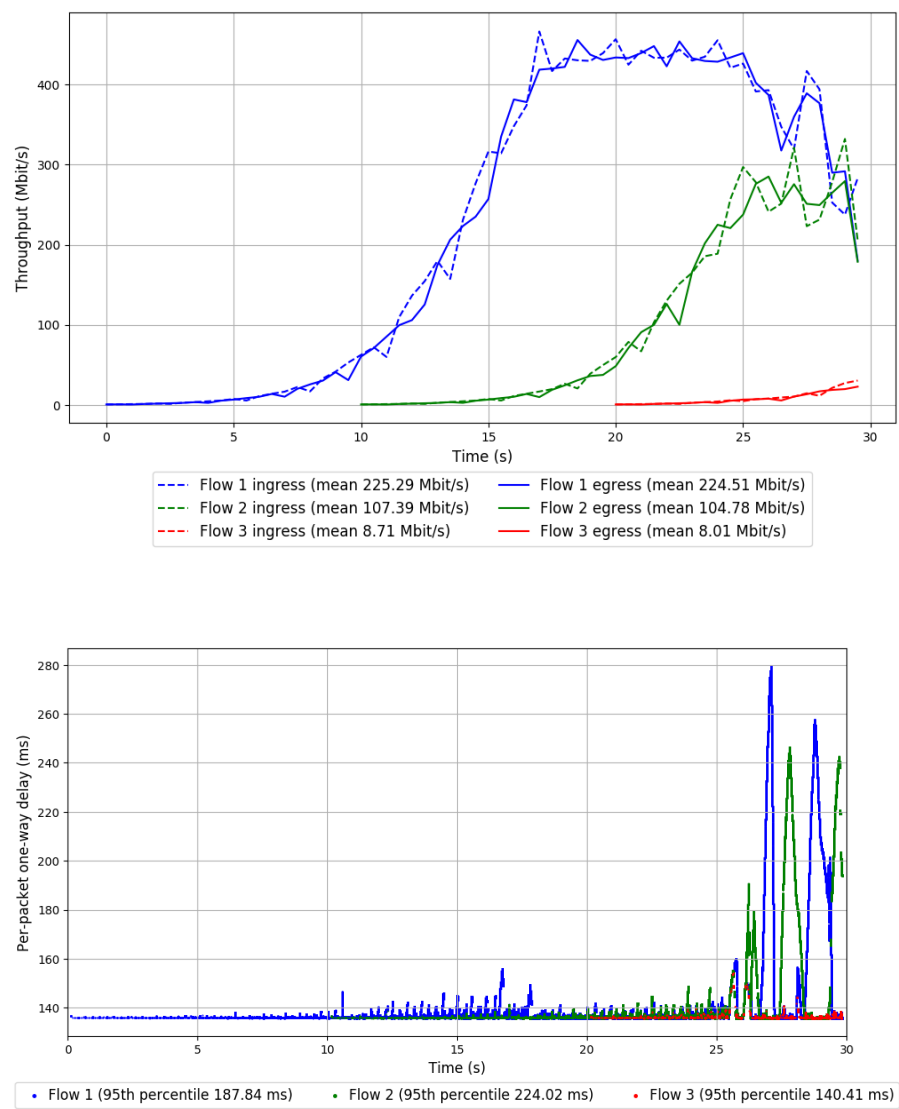
-- Flow 3:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 140.414 ms

Loss rate: 10.50%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-12 19:04:48

End at: 2017-10-12 19:05:18

Below is generated by plot.py at 2017-10-12 22:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.97 Mbit/s

95th percentile per-packet one-way delay: 186.401 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 186.350 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 74.11 Mbit/s

95th percentile per-packet one-way delay: 190.876 ms

Loss rate: 6.44%

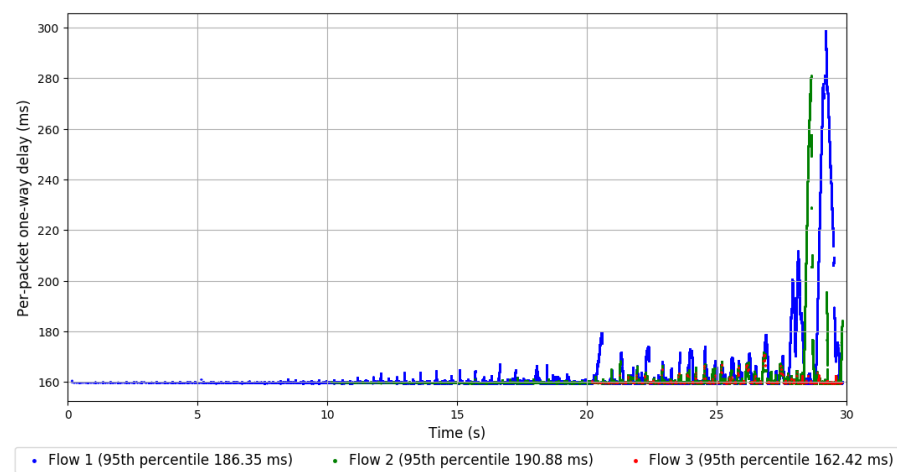
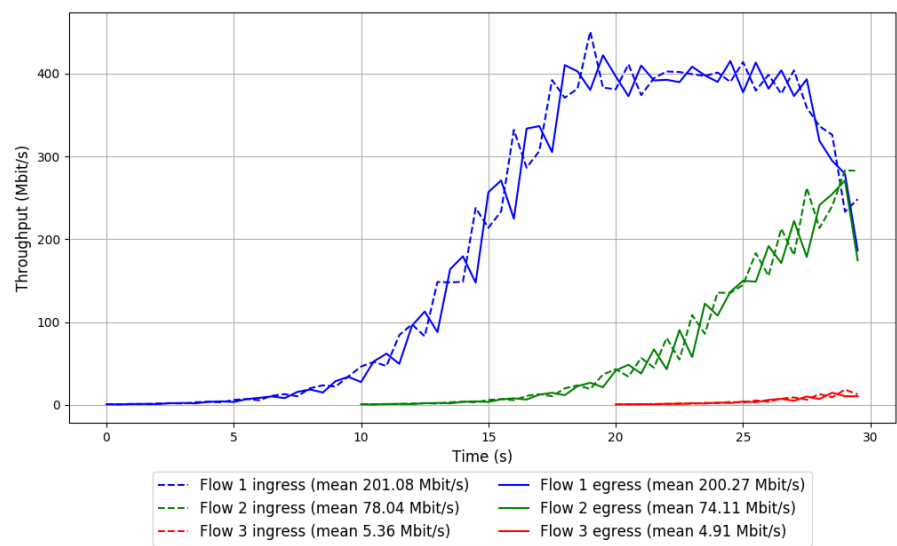
-- Flow 3:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 162.416 ms

Loss rate: 10.84%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-12 19:18:43

End at: 2017-10-12 19:19:13

Below is generated by plot.py at 2017-10-12 22:40:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.15 Mbit/s

95th percentile per-packet one-way delay: 174.276 ms

Loss rate: 2.81%

-- Flow 1:

Average throughput: 198.13 Mbit/s

95th percentile per-packet one-way delay: 174.953 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 171.378 ms

Loss rate: 5.36%

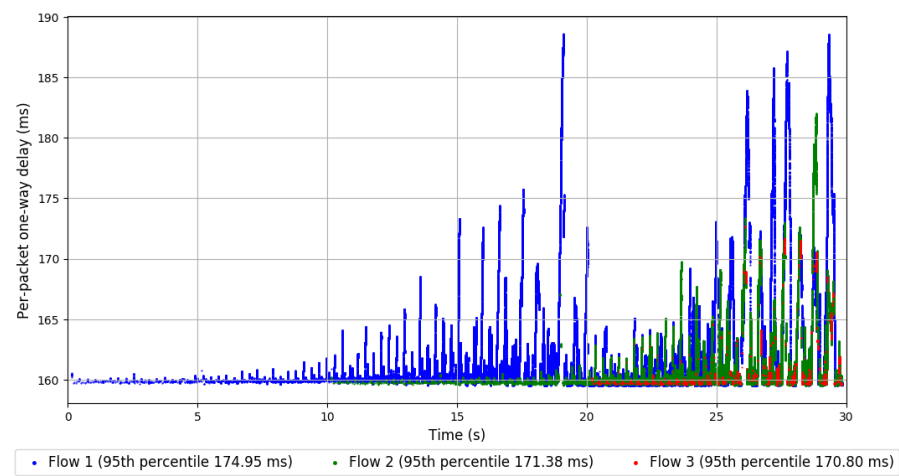
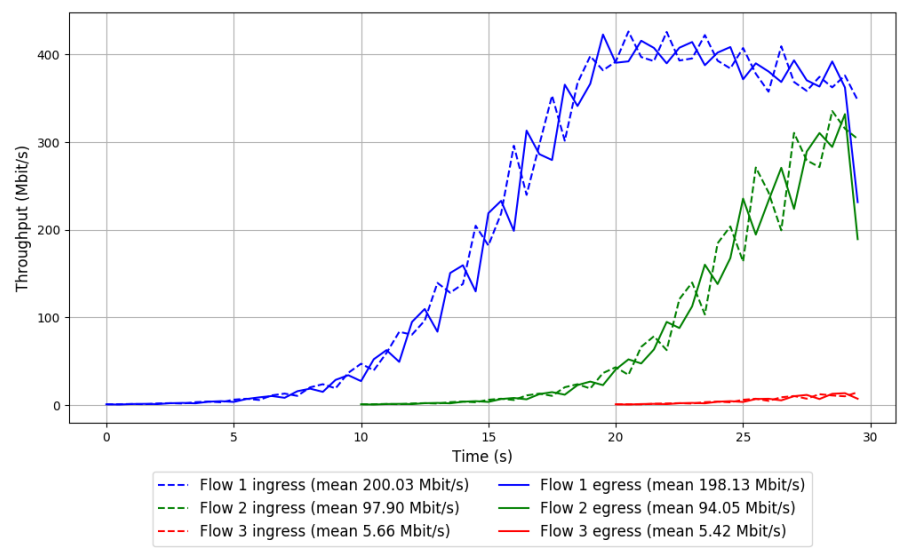
-- Flow 3:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 170.801 ms

Loss rate: 7.06%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-12 19:32:29

End at: 2017-10-12 19:32:59

Below is generated by plot.py at 2017-10-12 22:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.97 Mbit/s

95th percentile per-packet one-way delay: 170.053 ms

Loss rate: 3.09%

-- Flow 1:

Average throughput: 170.71 Mbit/s

95th percentile per-packet one-way delay: 169.986 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 170.207 ms

Loss rate: 5.71%

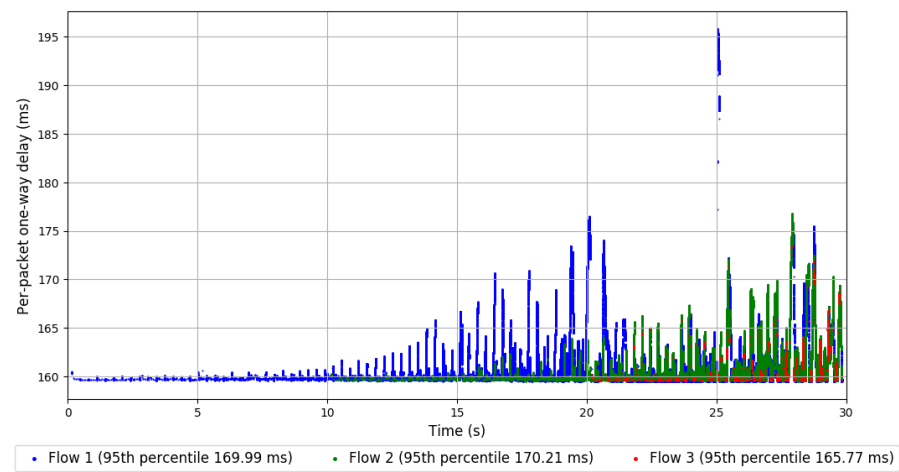
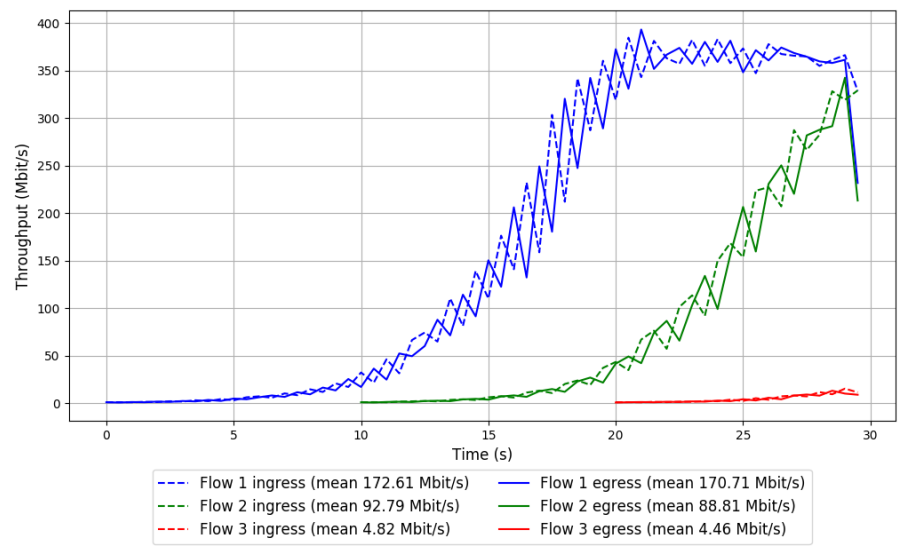
-- Flow 3:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 165.772 ms

Loss rate: 9.78%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-12 19:46:16

End at: 2017-10-12 19:46:46

Below is generated by plot.py at 2017-10-12 22:41:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.41 Mbit/s

95th percentile per-packet one-way delay: 171.685 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 199.43 Mbit/s

95th percentile per-packet one-way delay: 171.956 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 91.50 Mbit/s

95th percentile per-packet one-way delay: 170.601 ms

Loss rate: 4.92%

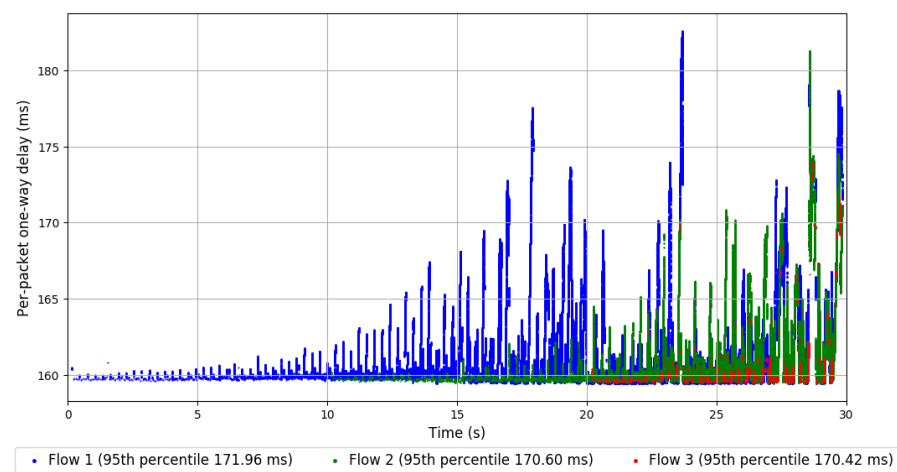
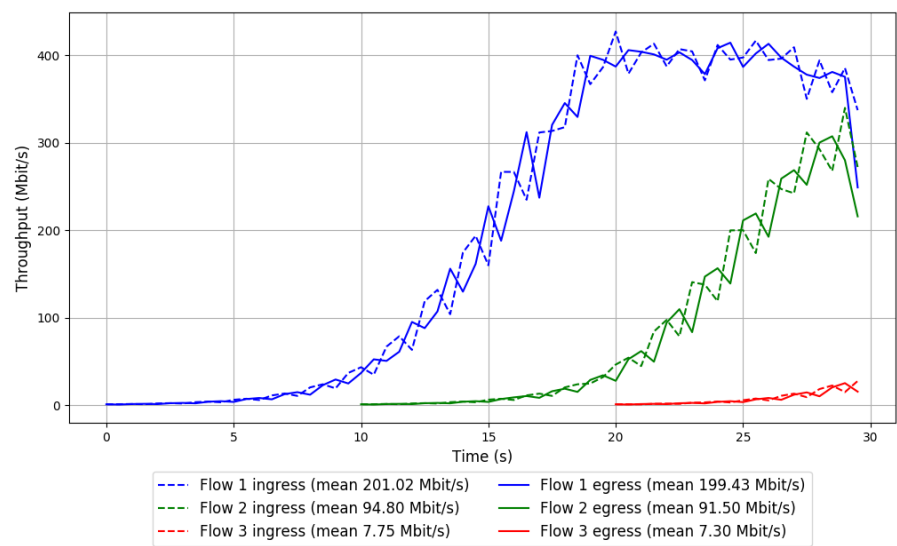
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 170.424 ms

Loss rate: 8.70%

Run 10: Report of CalibratedKoho — Data Link

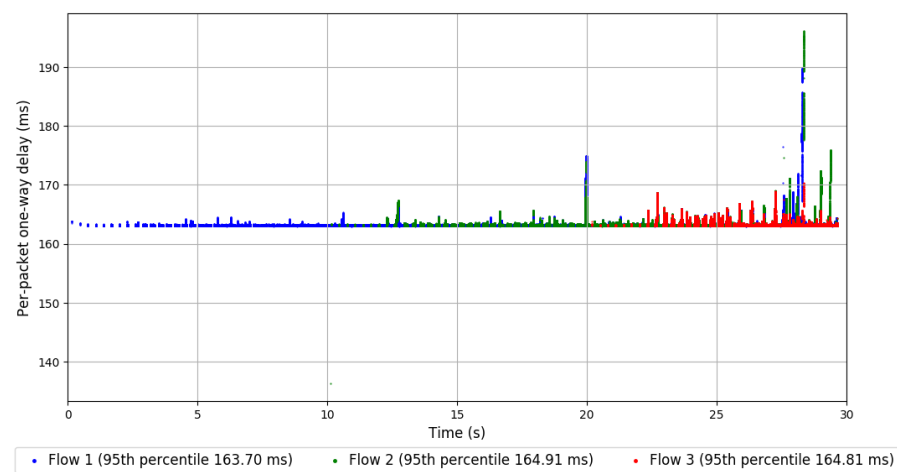
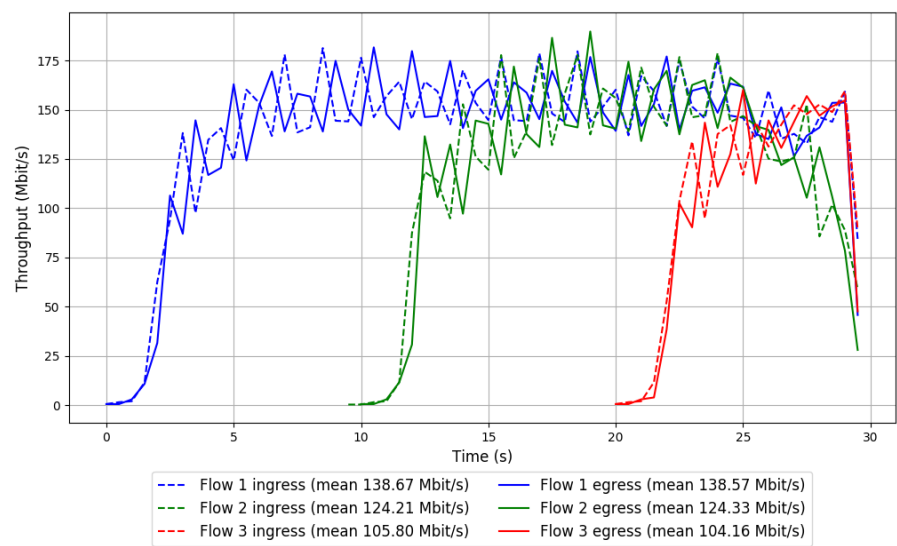


```
Run 1: Statistics of Indigo

Start at: 2017-10-12 17:36:29
End at: 2017-10-12 17:36:59

# Below is generated by plot.py at 2017-10-12 22:41:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.28 Mbit/s
95th percentile per-packet one-way delay: 164.211 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 138.57 Mbit/s
95th percentile per-packet one-way delay: 163.696 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 124.33 Mbit/s
95th percentile per-packet one-way delay: 164.906 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 104.16 Mbit/s
95th percentile per-packet one-way delay: 164.806 ms
Loss rate: 4.57%
```

Run 1: Report of Indigo — Data Link

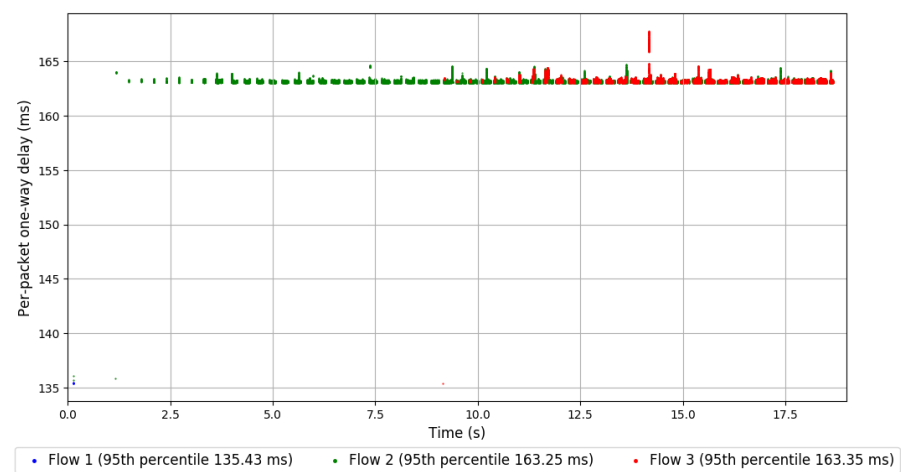
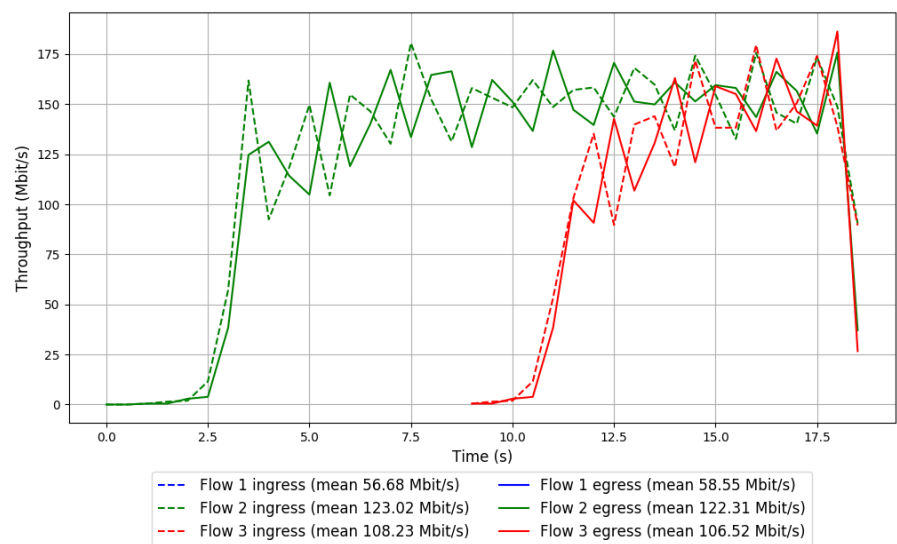


Run 2: Statistics of Indigo

Start at: 2017-10-12 17:50:29

End at: 2017-10-12 17:50:59

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-12 18:04:02

End at: 2017-10-12 18:04:32

Below is generated by plot.py at 2017-10-12 22:42:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.84 Mbit/s

95th percentile per-packet one-way delay: 161.100 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 133.79 Mbit/s

95th percentile per-packet one-way delay: 160.830 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 130.37 Mbit/s

95th percentile per-packet one-way delay: 161.152 ms

Loss rate: 1.78%

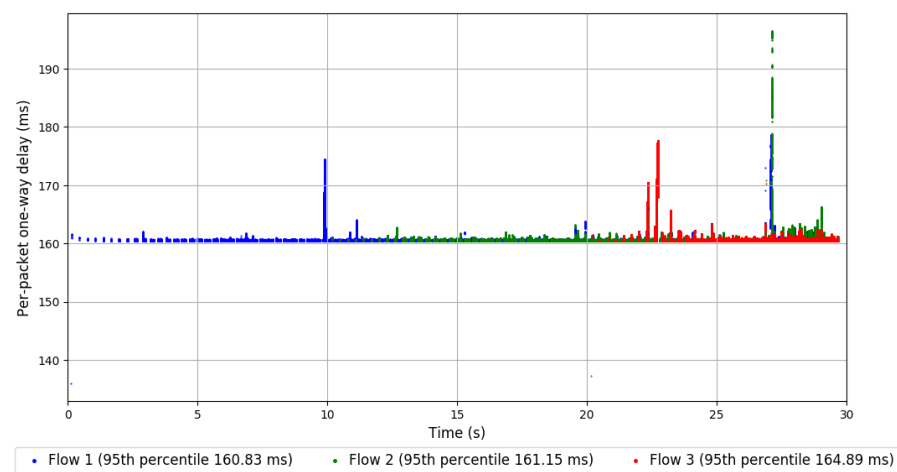
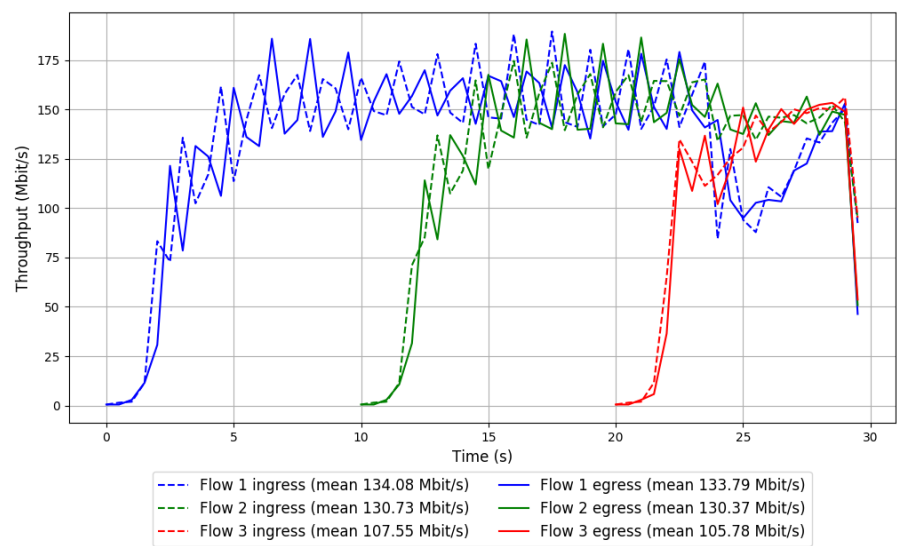
-- Flow 3:

Average throughput: 105.78 Mbit/s

95th percentile per-packet one-way delay: 164.894 ms

Loss rate: 4.42%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-12 18:17:33

End at: 2017-10-12 18:18:03

Below is generated by plot.py at 2017-10-12 22:42:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.15 Mbit/s

95th percentile per-packet one-way delay: 160.936 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 126.18 Mbit/s

95th percentile per-packet one-way delay: 160.808 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 124.08 Mbit/s

95th percentile per-packet one-way delay: 161.119 ms

Loss rate: 1.76%

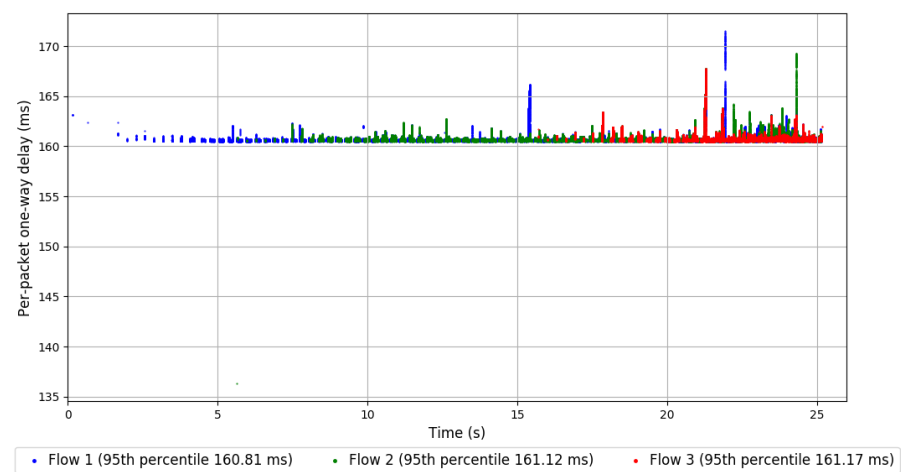
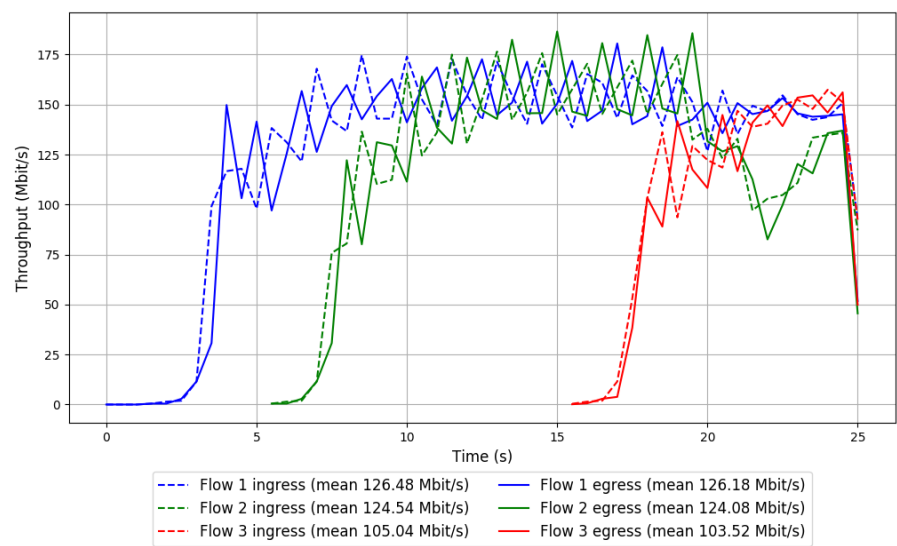
-- Flow 3:

Average throughput: 103.52 Mbit/s

95th percentile per-packet one-way delay: 161.168 ms

Loss rate: 4.46%

Run 4: Report of Indigo — Data Link

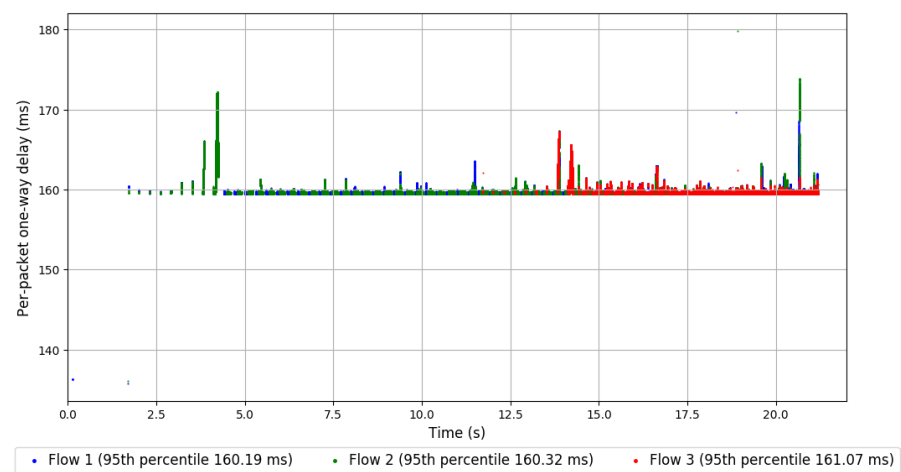
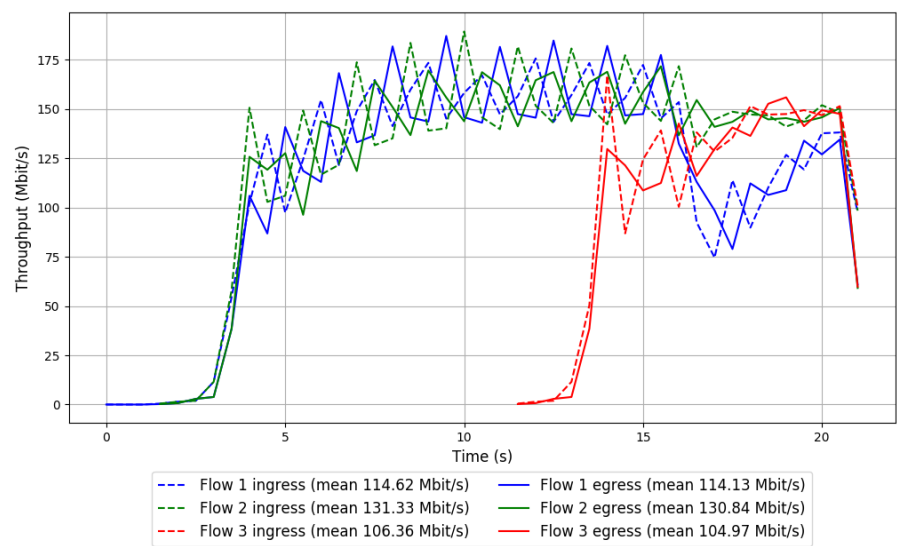


Run 5: Statistics of Indigo

Start at: 2017-10-12 18:31:27

End at: 2017-10-12 18:31:57

Run 5: Report of Indigo — Data Link

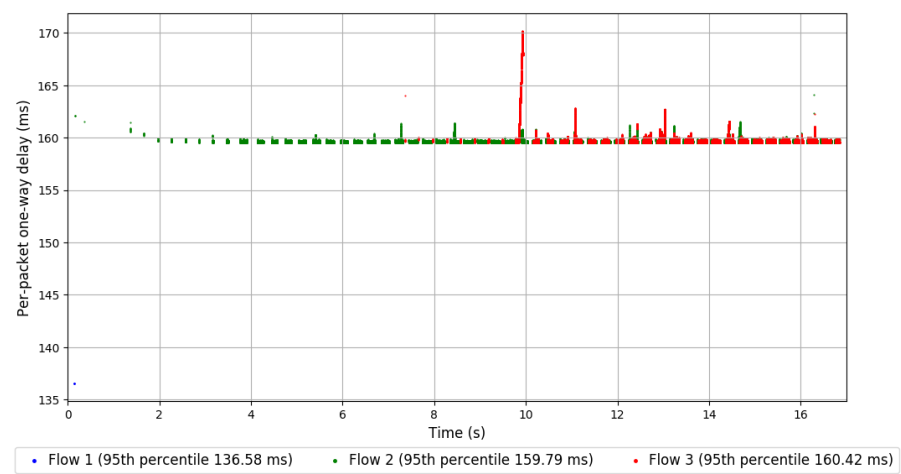
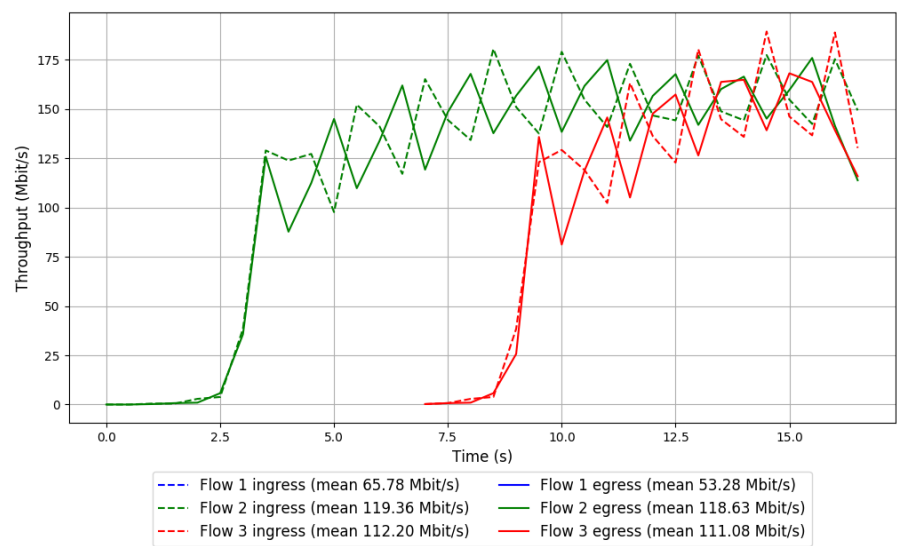


Run 6: Statistics of Indigo

Start at: 2017-10-12 18:45:10

End at: 2017-10-12 18:45:40

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-12 18:59:18

End at: 2017-10-12 18:59:48

Below is generated by plot.py at 2017-10-12 22:43:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.03 Mbit/s

95th percentile per-packet one-way delay: 163.350 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 127.75 Mbit/s

95th percentile per-packet one-way delay: 163.214 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 116.23 Mbit/s

95th percentile per-packet one-way delay: 163.342 ms

Loss rate: 1.84%

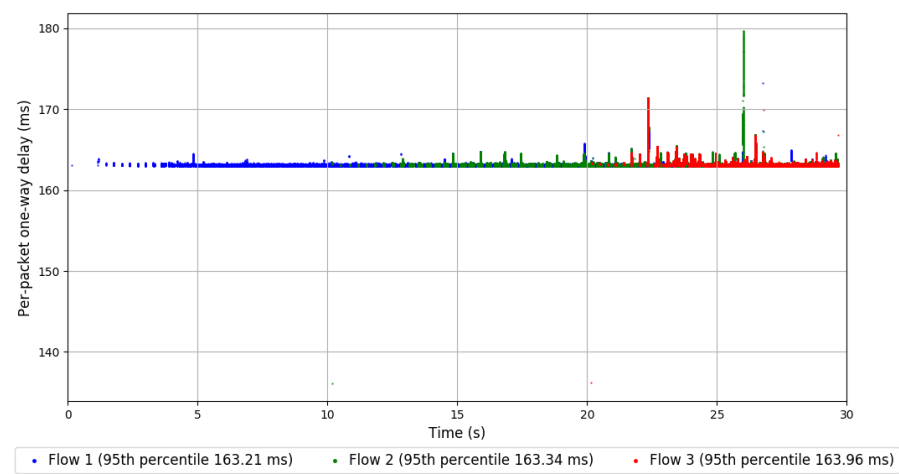
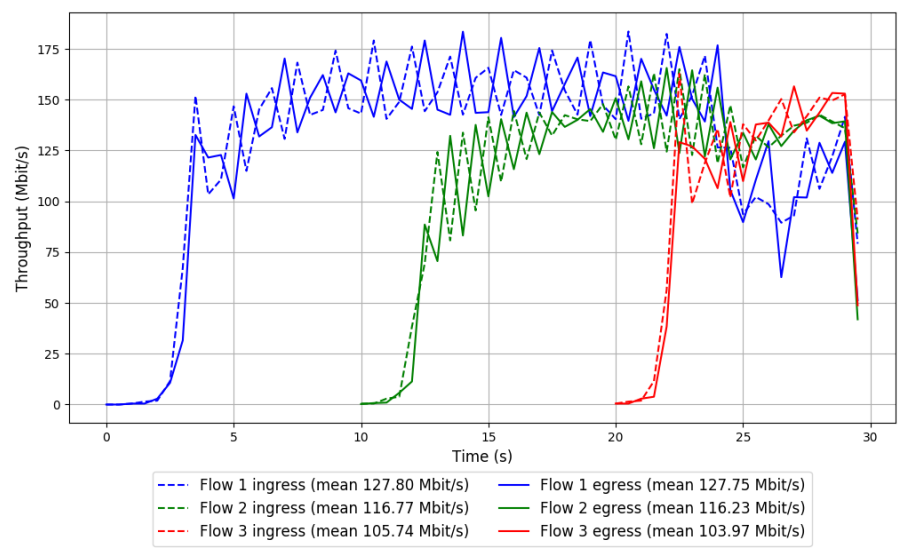
-- Flow 3:

Average throughput: 103.97 Mbit/s

95th percentile per-packet one-way delay: 163.955 ms

Loss rate: 4.40%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-12 19:12:53

End at: 2017-10-12 19:13:23

Below is generated by plot.py at 2017-10-12 22:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.61 Mbit/s

95th percentile per-packet one-way delay: 162.935 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 115.11 Mbit/s

95th percentile per-packet one-way delay: 160.246 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 125.68 Mbit/s

95th percentile per-packet one-way delay: 160.771 ms

Loss rate: 1.78%

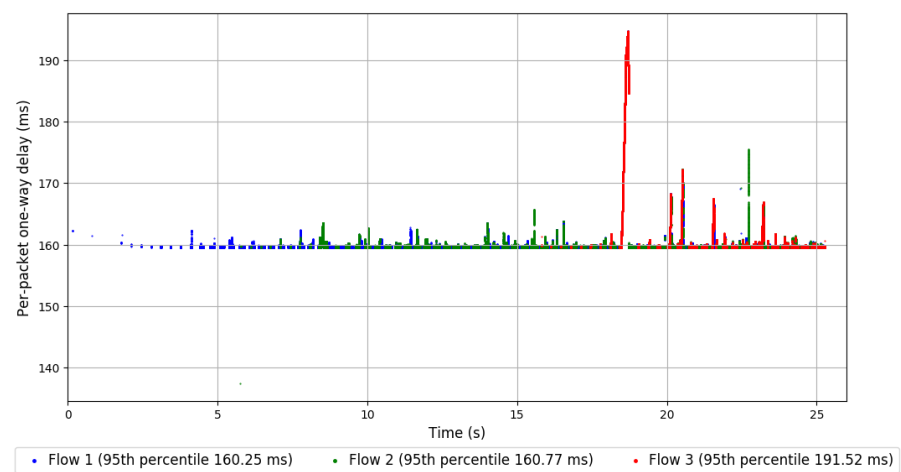
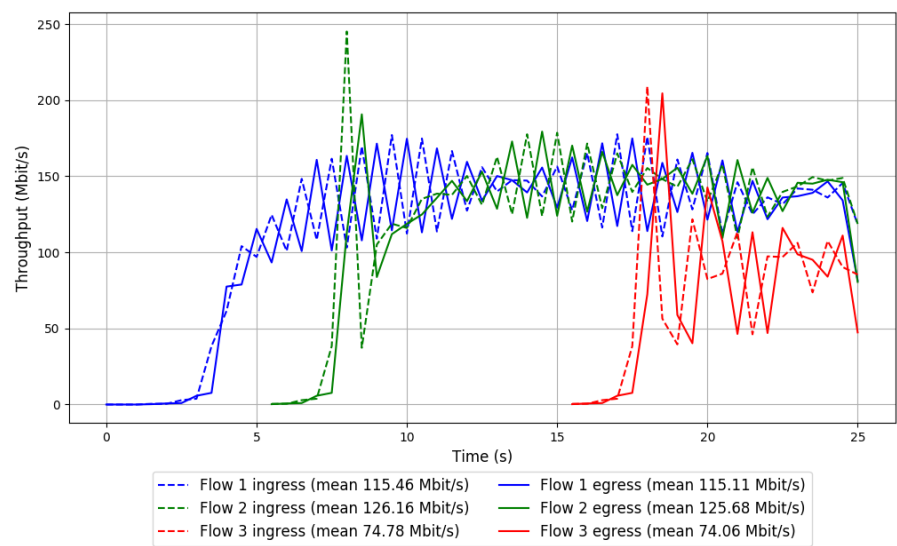
-- Flow 3:

Average throughput: 74.06 Mbit/s

95th percentile per-packet one-way delay: 191.517 ms

Loss rate: 3.98%

Run 8: Report of Indigo — Data Link

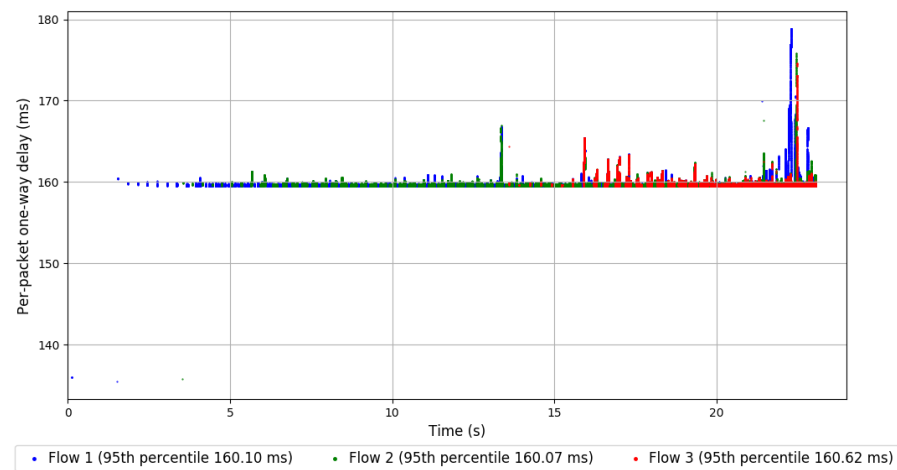
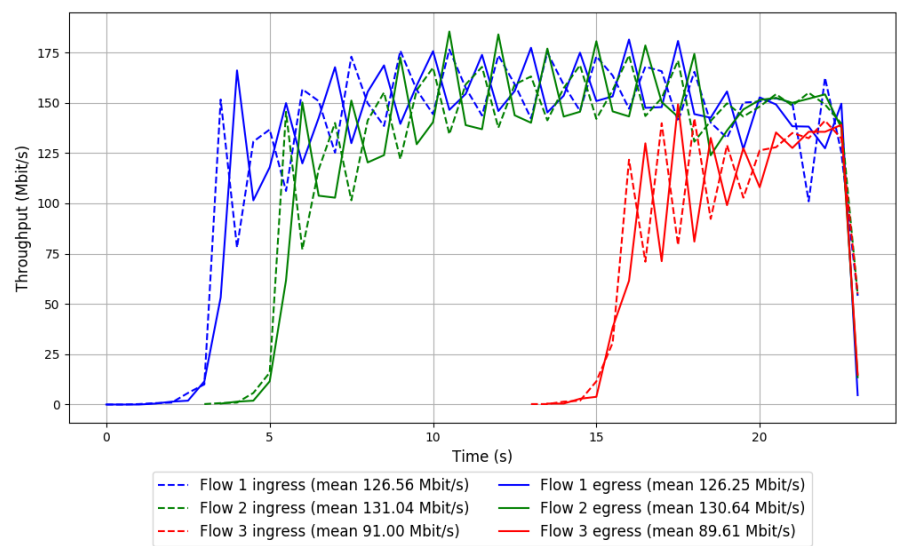


Run 9: Statistics of Indigo

Start at: 2017-10-12 19:26:56

End at: 2017-10-12 19:27:26

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-12 19:40:40

End at: 2017-10-12 19:41:10

Run 10: Report of Indigo — Data Link

