

Pantheon Report

Generated at 2017-10-12 23:18:12 (UTC).

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

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.

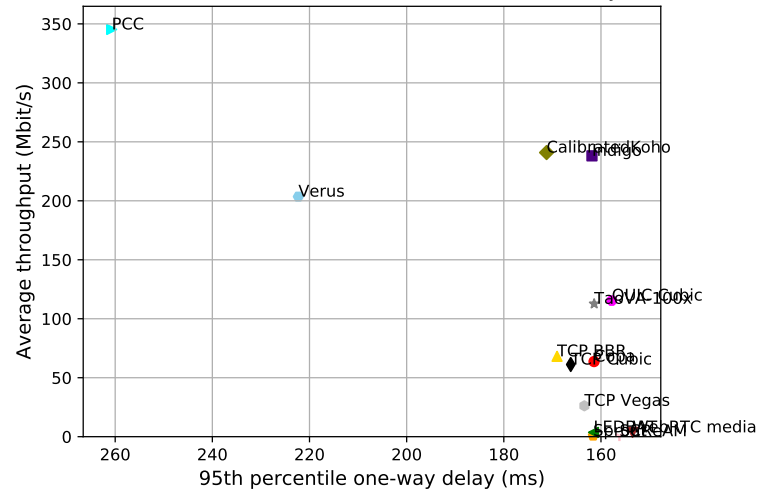
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

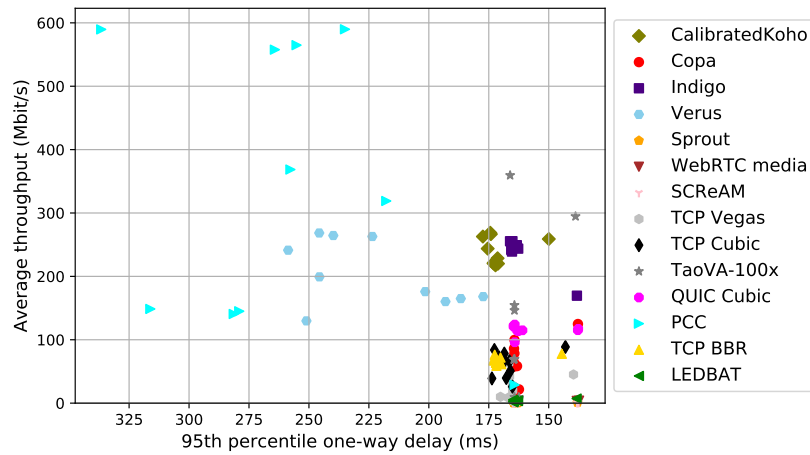
Git summary:

```
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
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 Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	33.71	34.48	35.60	168.93	169.15	169.59	0.18	0.17	1.56
TCP Cubic	10	34.32	28.85	23.44	165.82	164.58	166.71	0.23	0.10	0.67
LEDBAT	10	3.23	1.62	0.95	647.72	161.56	161.50	0.22	0.01	0.40
PCC	10	204.00	137.56	152.00	221.08	216.18	249.25	1.60	1.38	2.55
QUIC Cubic	9	62.28	58.47	44.89	145.91	148.84	154.75	0.03	0.01	0.28
SCReAM	10	0.20	0.19	0.21	153.41	148.04	145.30	0.07	0.00	0.10
WebRTC media	5	2.07	1.24	0.38	152.96	147.34	159.09	0.07	0.08	0.28
Sprout	10	0.36	0.31	0.39	158.70	161.39	161.62	0.12	0.00	0.01
TaoVA-100x	10	50.23	70.41	64.54	161.29	163.90	161.64	0.06	0.15	0.12
TCP Vegas	10	13.35	10.74	17.19	162.03	162.18	164.83	0.03	0.07	0.55
Verus	10	127.94	77.56	76.60	217.01	207.57	208.24	0.32	0.80	0.85
Copa	10	28.04	42.37	30.11	161.27	161.42	161.27	0.07	0.19	0.40
CalibratedKoho	10	184.05	81.28	5.38	170.59	172.63	172.18	0.15	0.55	1.11
Indigo	9	134.49	122.70	90.37	161.45	163.22	168.13	0.07	0.13	0.48

Run 1: Statistics of TCP BBR

Start at: 2017-10-12 20:01:09

End at: 2017-10-12 20:01:39

Below is generated by plot.py at 2017-10-12 22:45:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 169.788 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 32.07 Mbit/s

95th percentile per-packet one-way delay: 169.862 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 169.489 ms

Loss rate: 0.01%

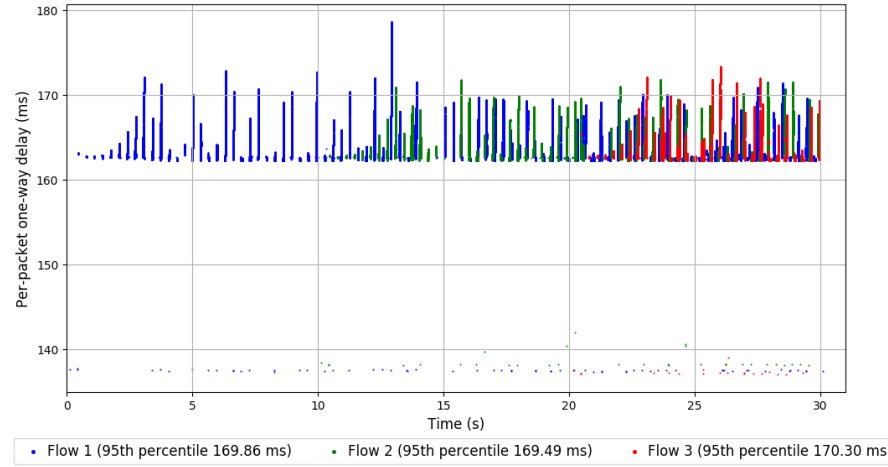
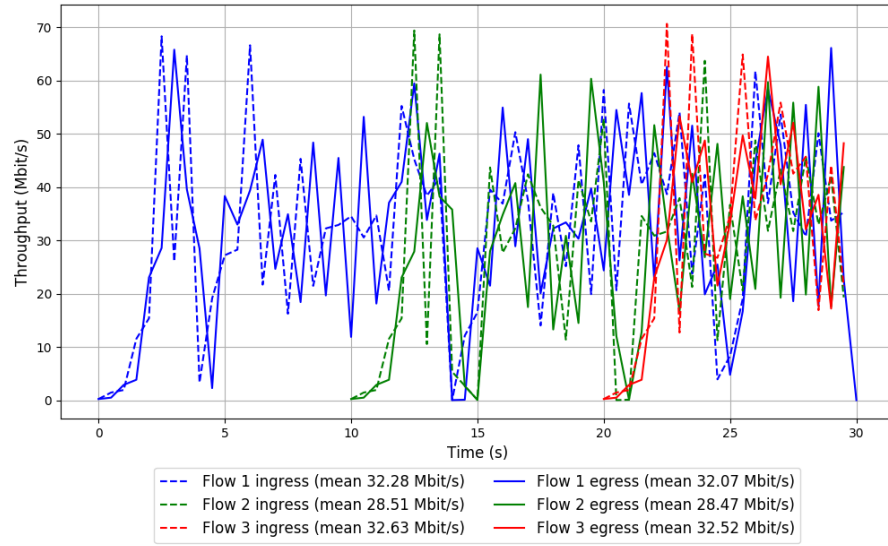
-- Flow 3:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 170.296 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-12 20:14:44

End at: 2017-10-12 20:15:14

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 170.107 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 170.253 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 169.911 ms

Loss rate: 0.00%

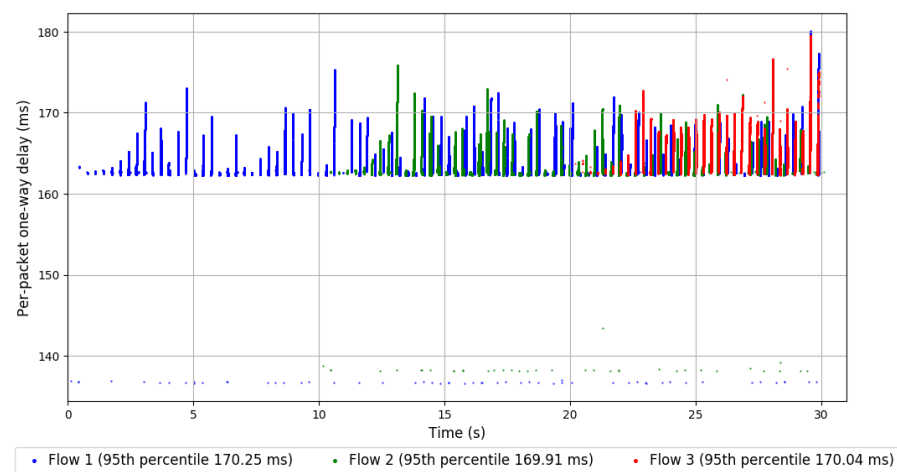
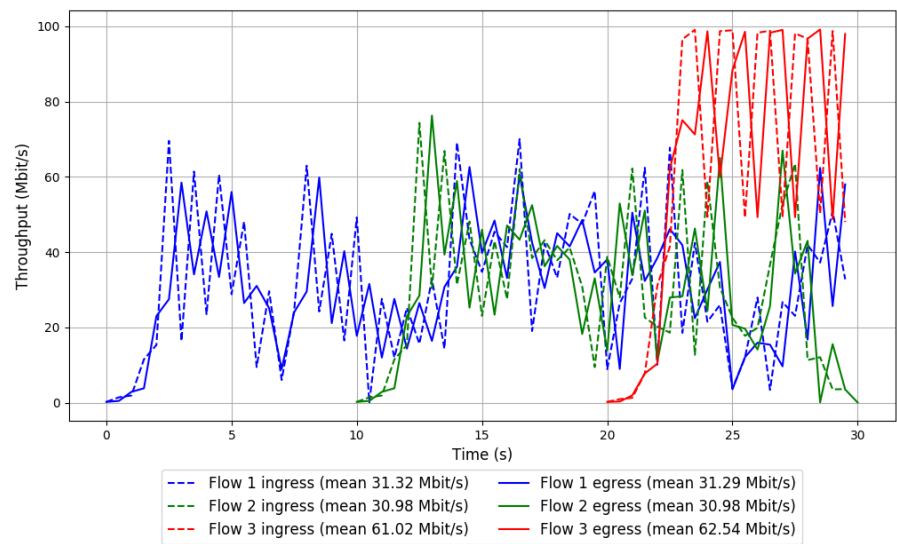
-- Flow 3:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 170.038 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-12 20:27:50

End at: 2017-10-12 20:28:20

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.93 Mbit/s

95th percentile per-packet one-way delay: 171.802 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 171.398 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 171.933 ms

Loss rate: 0.00%

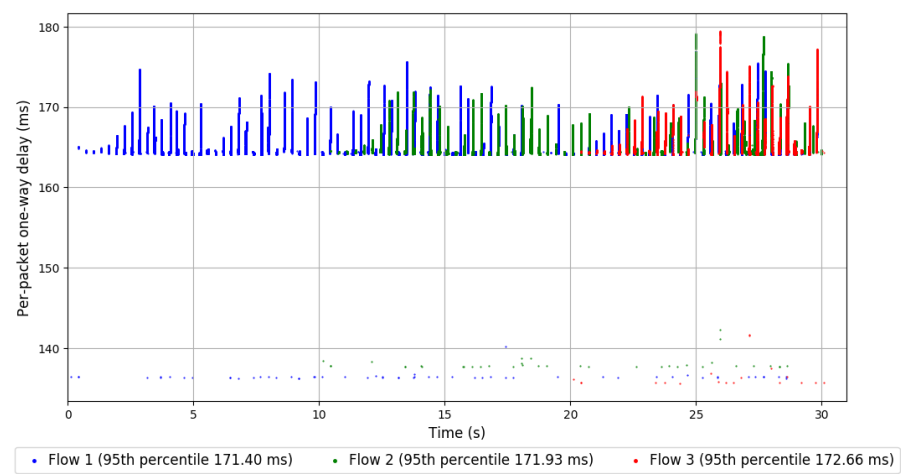
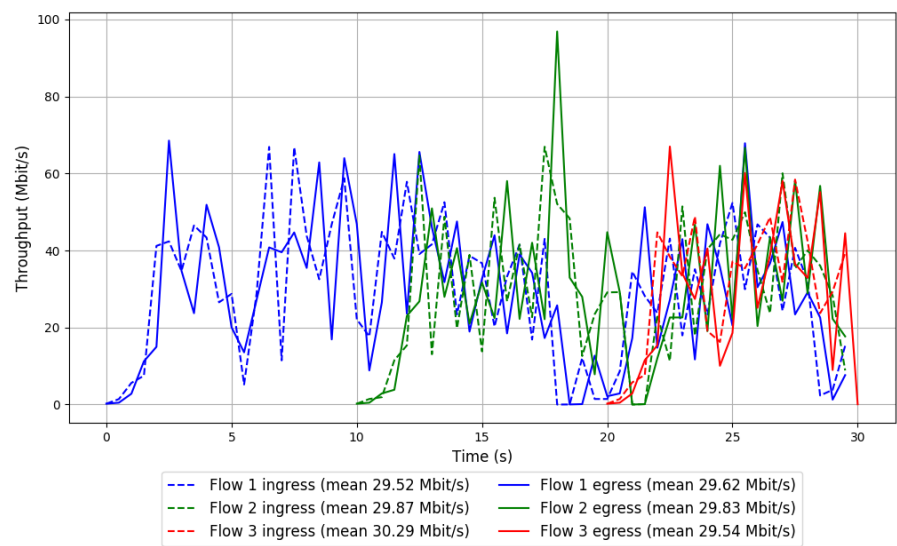
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 172.658 ms

Loss rate: 2.51%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-12 20:41:22

End at: 2017-10-12 20:41:52

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 172.713 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 34.48 Mbit/s

95th percentile per-packet one-way delay: 171.400 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 173.346 ms

Loss rate: 0.00%

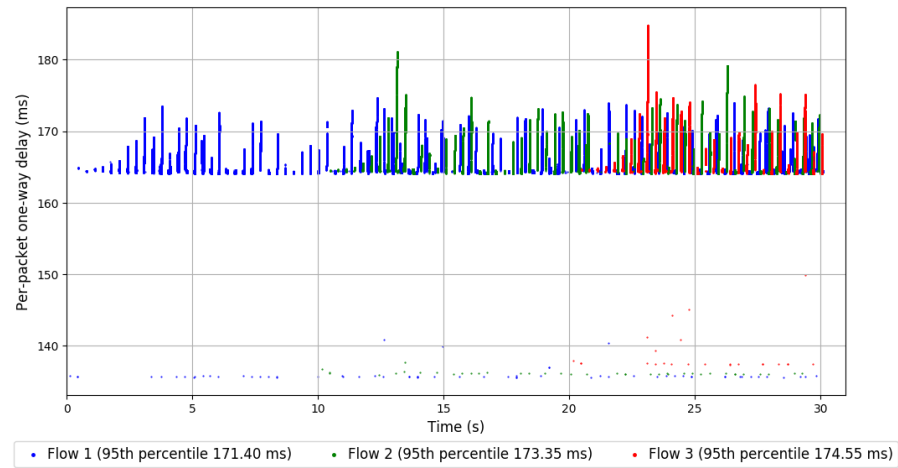
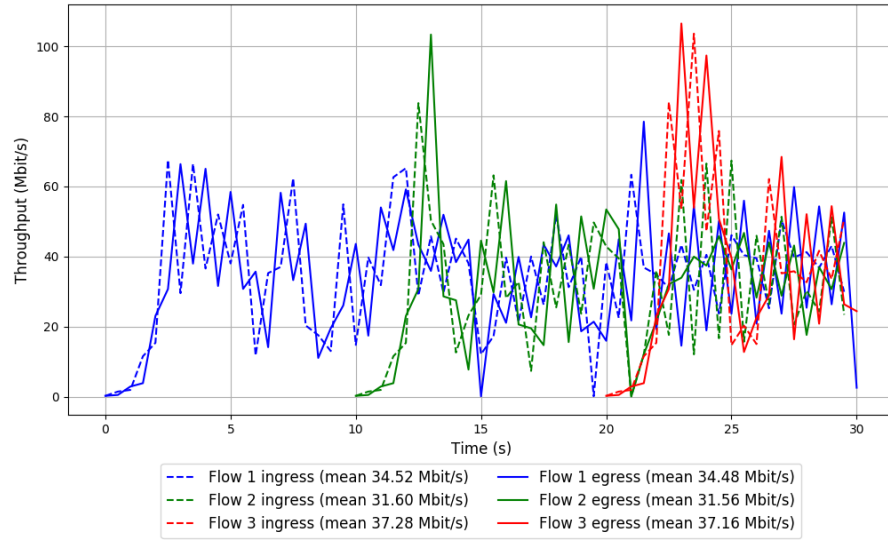
-- Flow 3:

Average throughput: 37.16 Mbit/s

95th percentile per-packet one-way delay: 174.553 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-12 20:54:42

End at: 2017-10-12 20:55:12

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.30 Mbit/s

95th percentile per-packet one-way delay: 173.178 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 172.876 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 173.161 ms

Loss rate: 0.00%

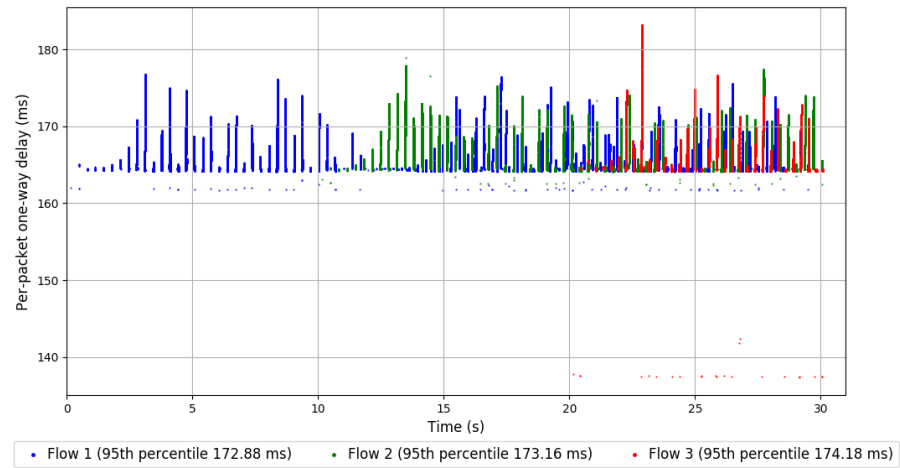
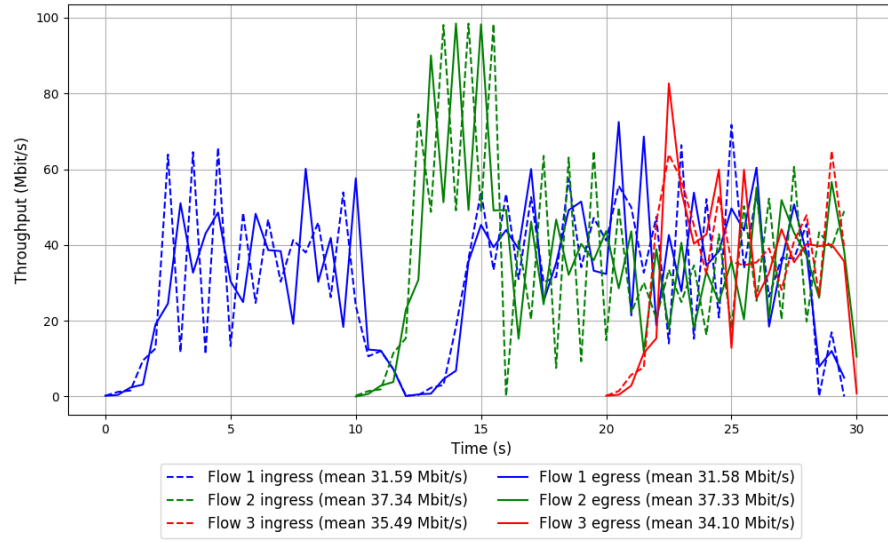
-- Flow 3:

Average throughput: 34.10 Mbit/s

95th percentile per-packet one-way delay: 174.184 ms

Loss rate: 3.92%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-12 21:08:02

End at: 2017-10-12 21:08:32

Below is generated by plot.py at 2017-10-12 22:45:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 172.537 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 173.544 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 172.182 ms

Loss rate: 0.39%

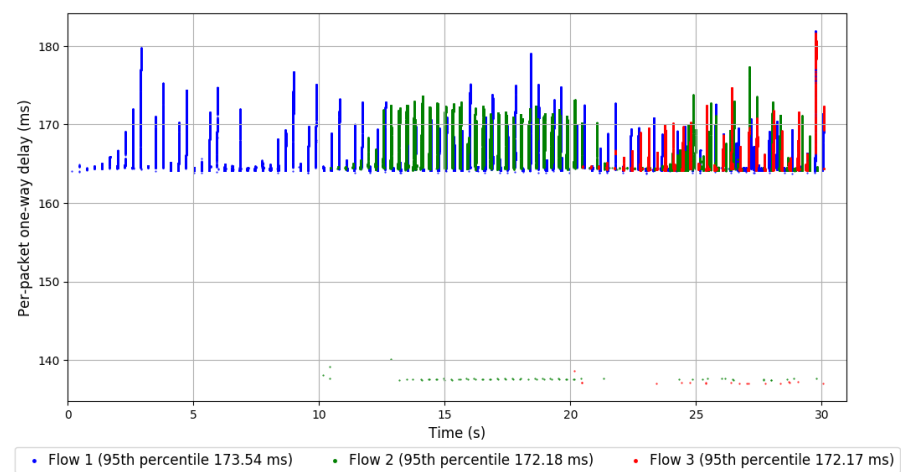
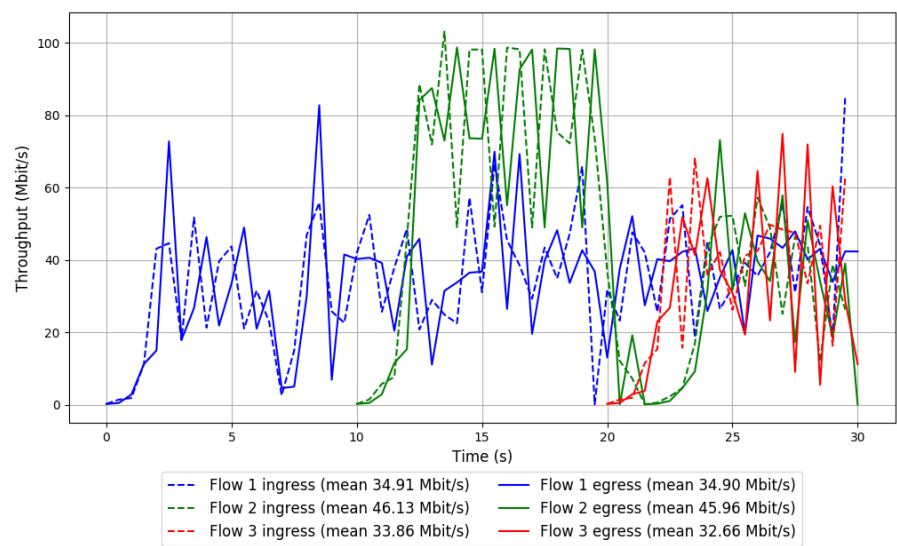
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 172.170 ms

Loss rate: 3.40%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-12 21:21:49

End at: 2017-10-12 21:22:19

Below is generated by plot.py at 2017-10-12 22:45:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.23 Mbit/s

95th percentile per-packet one-way delay: 171.917 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 171.541 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 172.535 ms

Loss rate: 1.26%

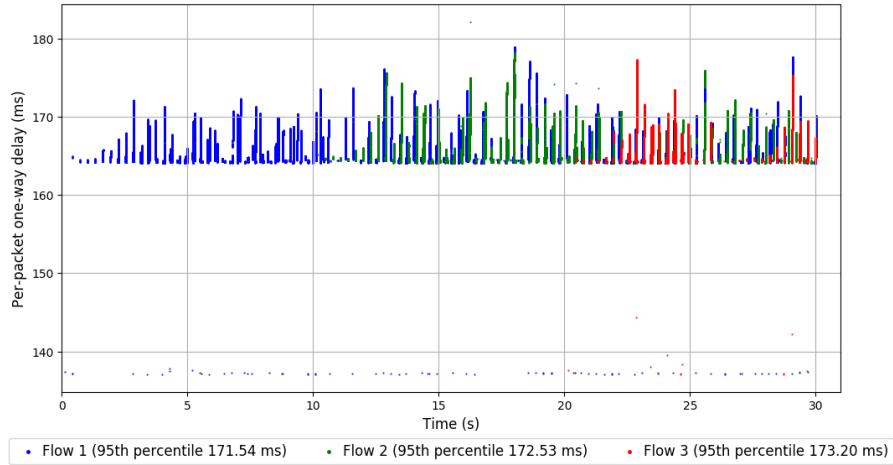
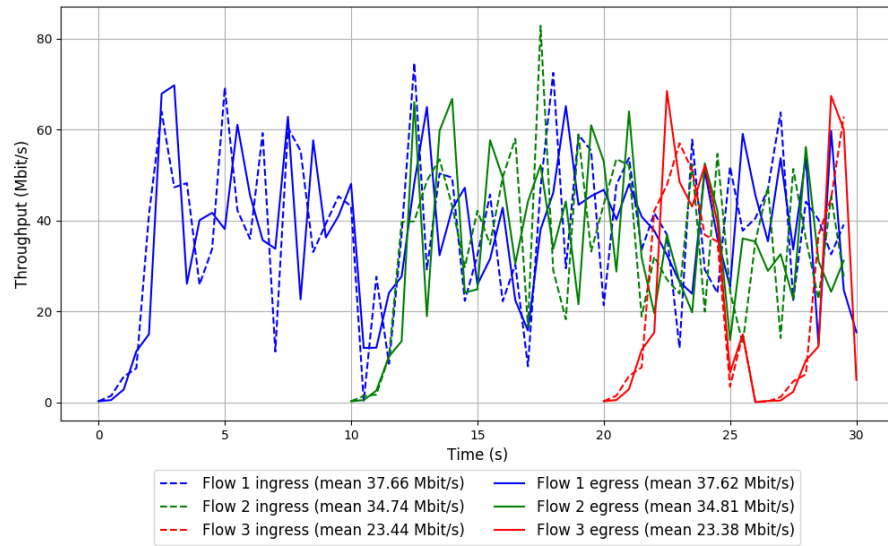
-- Flow 3:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 173.200 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-12 21:35:41

End at: 2017-10-12 21:36:11

Below is generated by plot.py at 2017-10-12 22:45:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 171.833 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 171.759 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 30.49 Mbit/s

95th percentile per-packet one-way delay: 171.569 ms

Loss rate: 0.02%

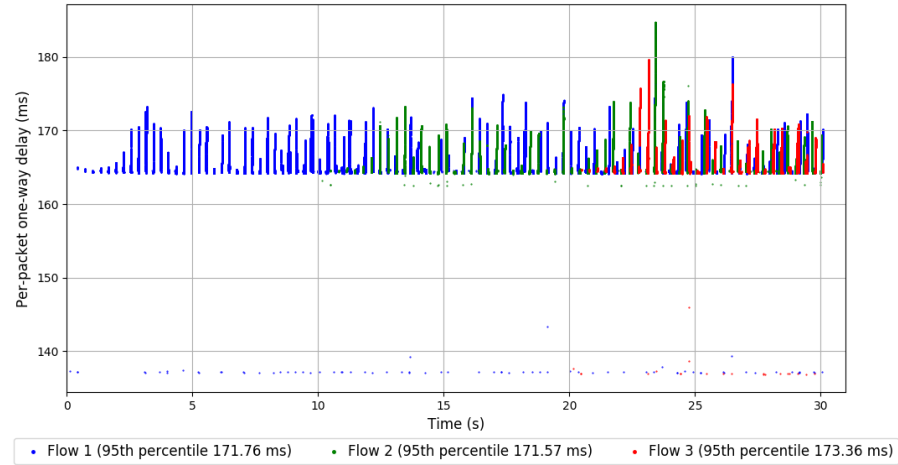
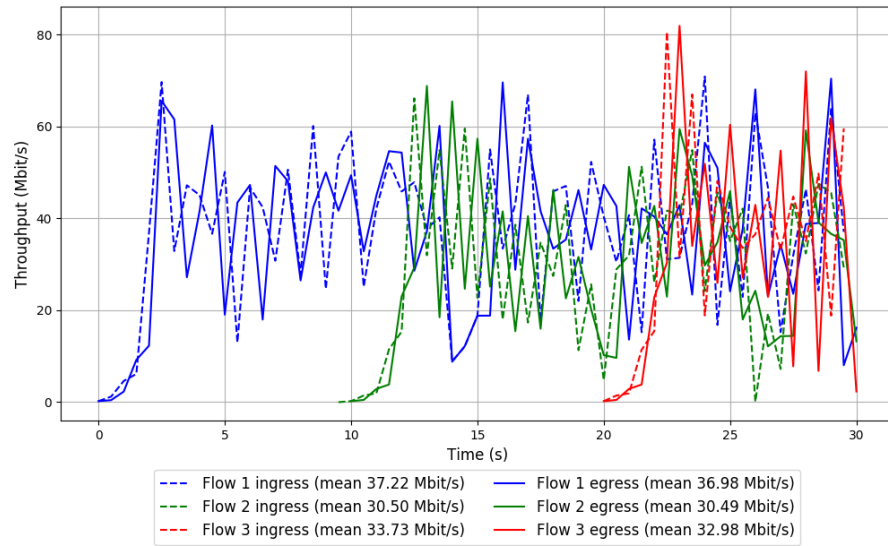
-- Flow 3:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 173.357 ms

Loss rate: 2.21%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-12 21:50:10

End at: 2017-10-12 21:50:40

Below is generated by plot.py at 2017-10-12 22:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 172.009 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 171.990 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 172.597 ms

Loss rate: 0.00%

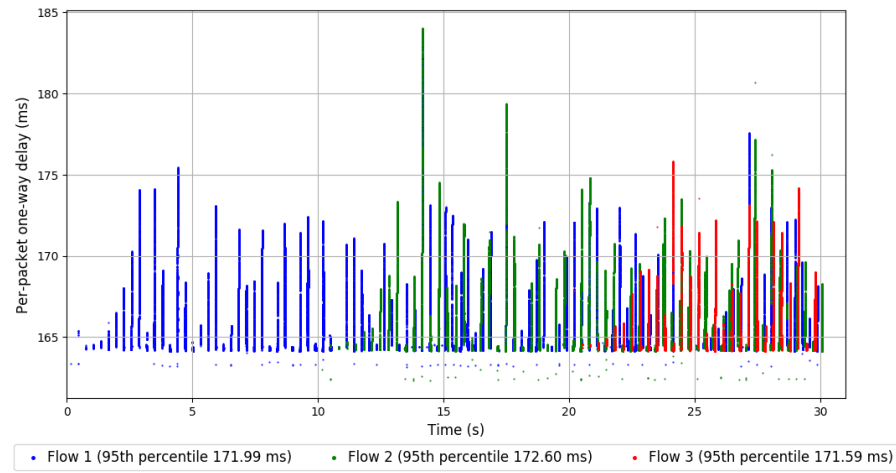
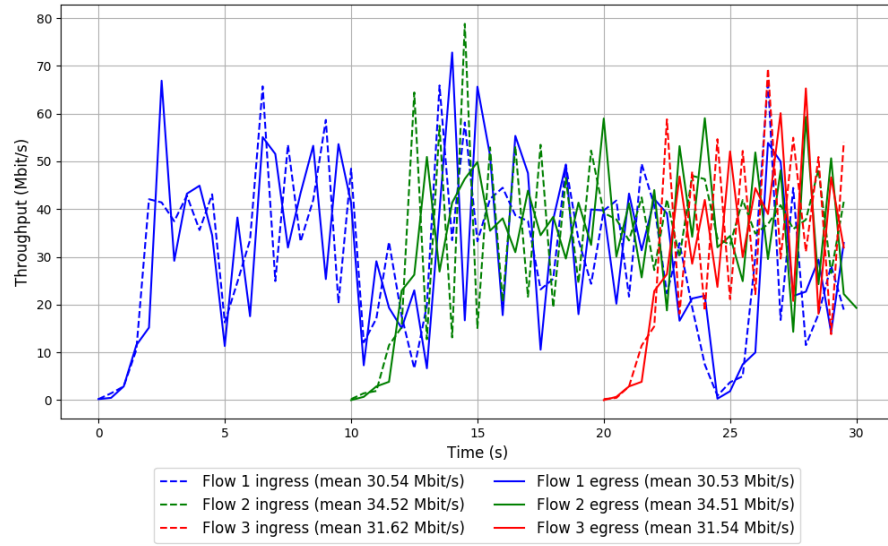
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 171.589 ms

Loss rate: 3.51%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-12 22:03:58

End at: 2017-10-12 22:04:28

Below is generated by plot.py at 2017-10-12 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 144.538 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 144.633 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.82 Mbit/s

95th percentile per-packet one-way delay: 144.769 ms

Loss rate: 0.00%

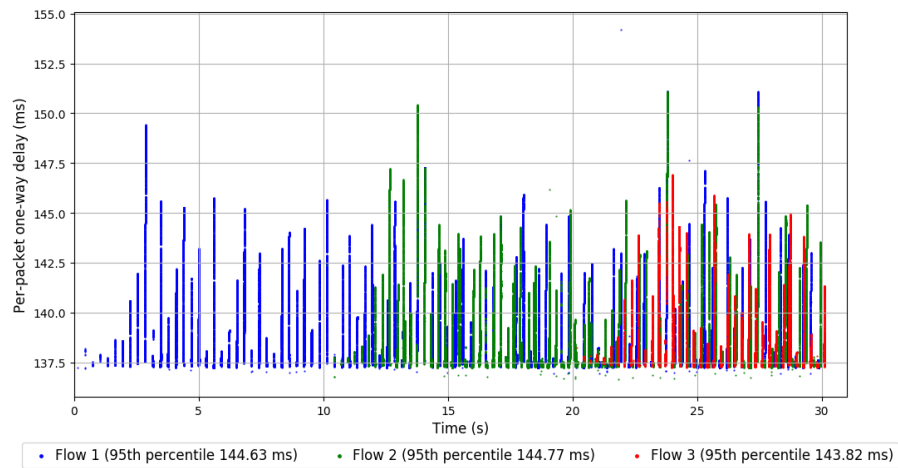
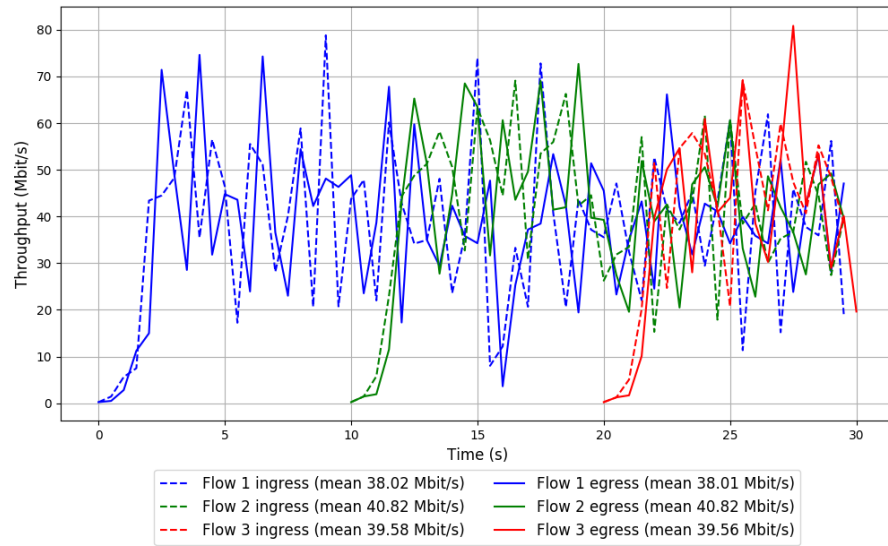
-- Flow 3:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 143.816 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-12 19:59:02

End at: 2017-10-12 19:59:32

Below is generated by plot.py at 2017-10-12 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 166.018 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 43.53 Mbit/s

95th percentile per-packet one-way delay: 166.592 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 164.131 ms

Loss rate: 0.28%

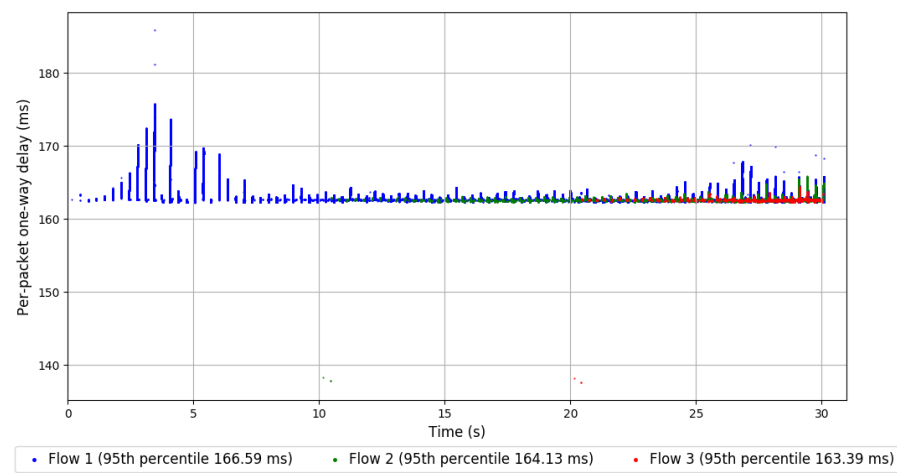
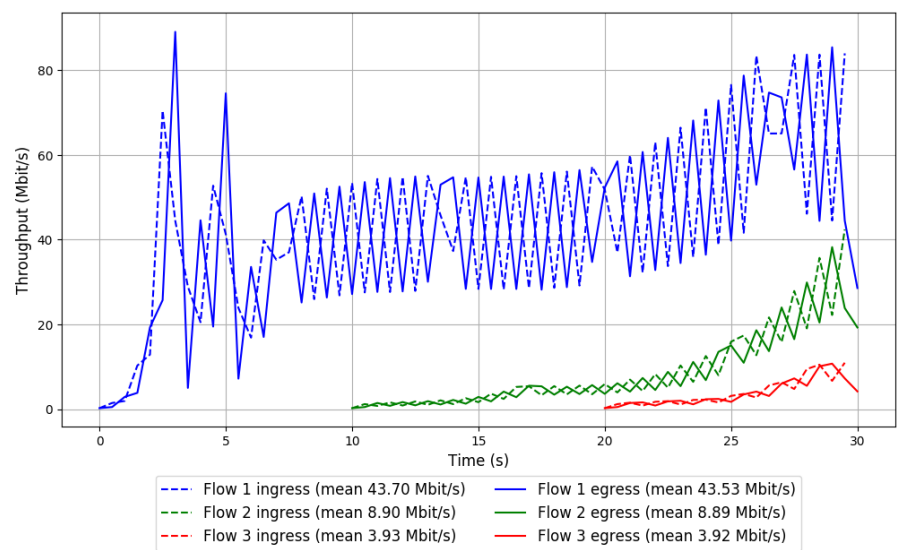
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 163.389 ms

Loss rate: 0.49%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-12 20:12:37

End at: 2017-10-12 20:13:07

Below is generated by plot.py at 2017-10-12 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 168.363 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 170.002 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 166.534 ms

Loss rate: 0.01%

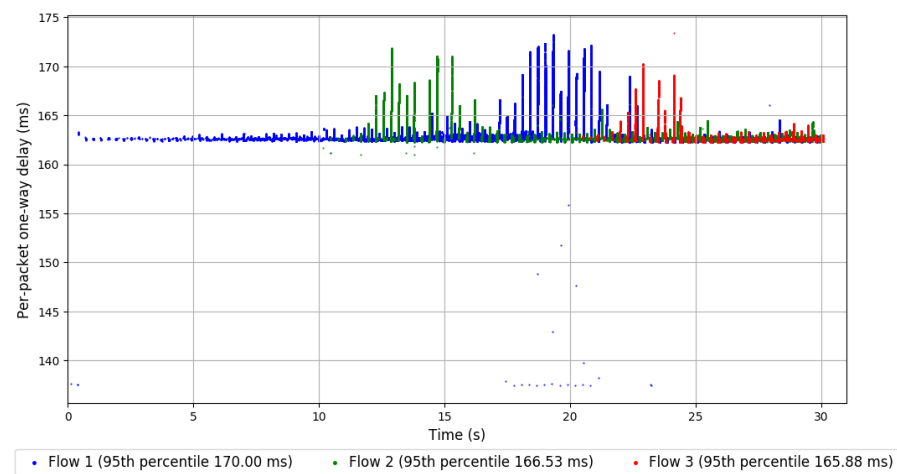
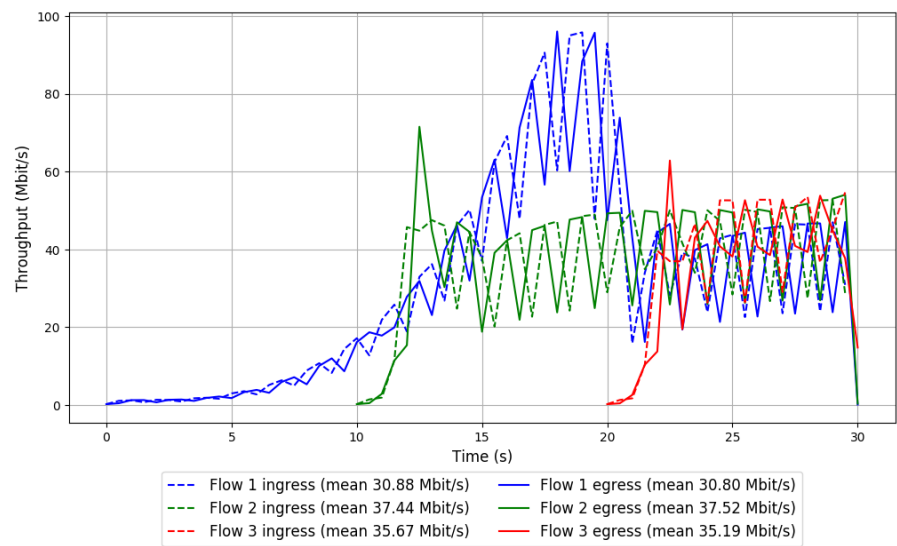
-- Flow 3:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 165.883 ms

Loss rate: 1.72%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-12 20:25:40

End at: 2017-10-12 20:26:10

Below is generated by plot.py at 2017-10-12 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 173.684 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 173.985 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 166.721 ms

Loss rate: 0.01%

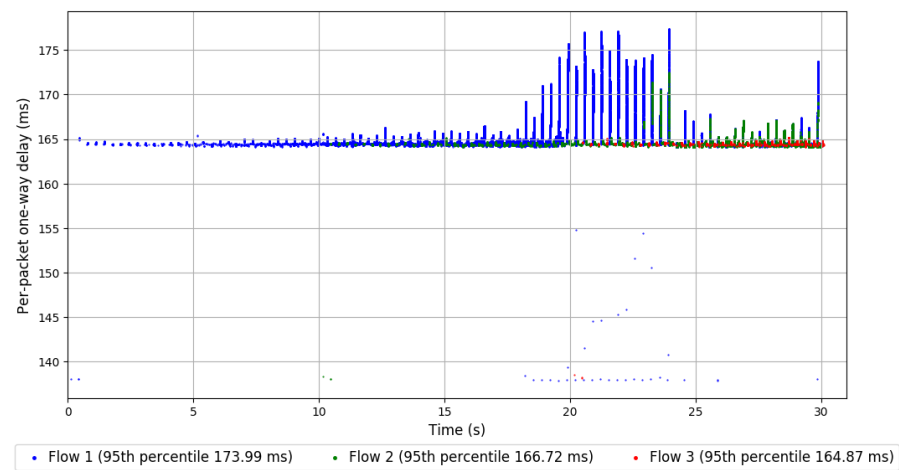
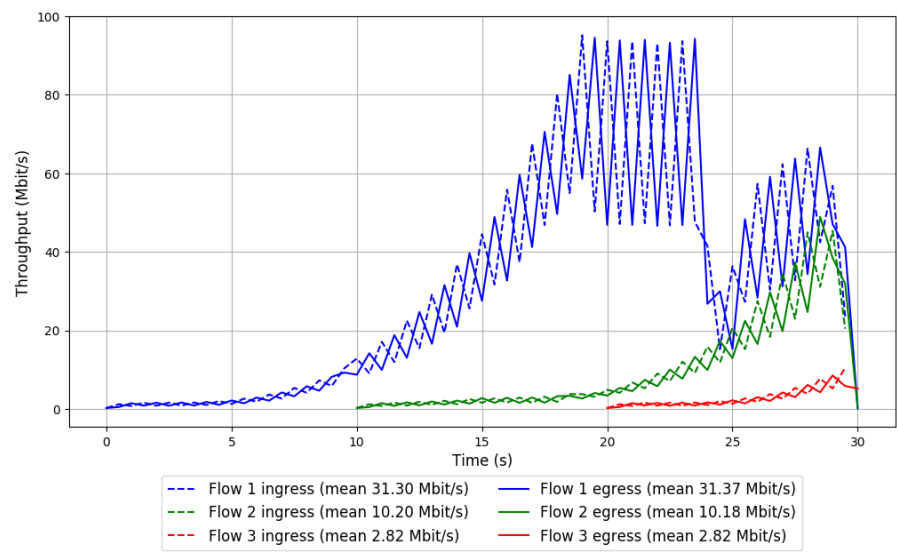
-- Flow 3:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 164.871 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-12 20:39:19

End at: 2017-10-12 20:39:49

Below is generated by plot.py at 2017-10-12 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.03 Mbit/s

95th percentile per-packet one-way delay: 165.118 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 165.121 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 165.062 ms

Loss rate: 0.11%

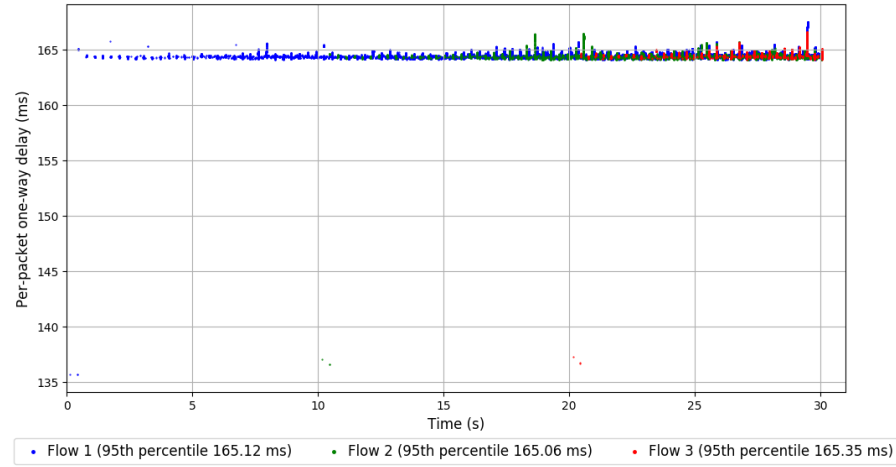
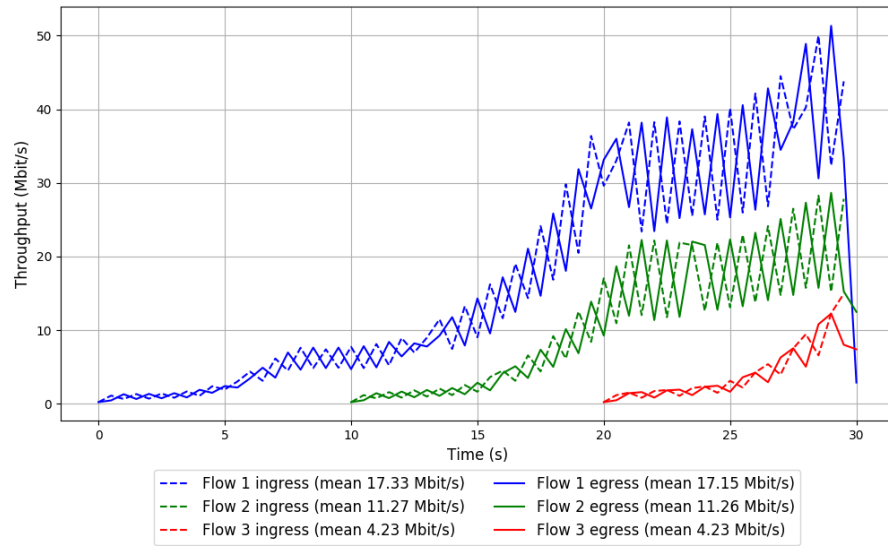
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 165.352 ms

Loss rate: 0.20%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-12 20:52:35

End at: 2017-10-12 20:53:05

Below is generated by plot.py at 2017-10-12 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.59 Mbit/s

95th percentile per-packet one-way delay: 167.704 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 21.78 Mbit/s

95th percentile per-packet one-way delay: 165.363 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 165.288 ms

Loss rate: 0.12%

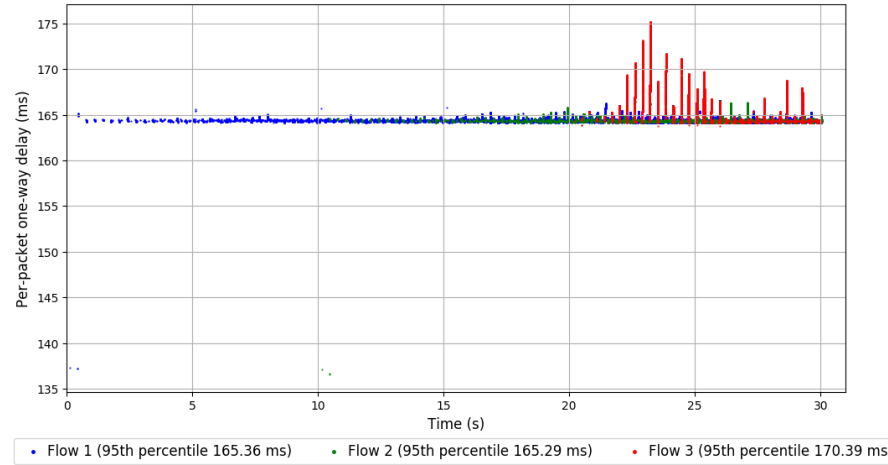
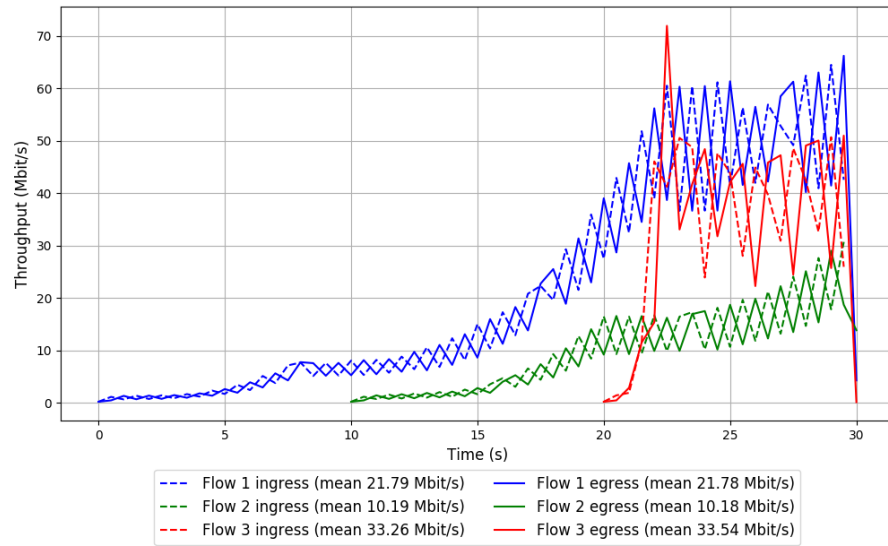
-- Flow 3:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 170.391 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-12 21:05:59

End at: 2017-10-12 21:06:29

Below is generated by plot.py at 2017-10-12 22:46:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 170.763 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.77 Mbit/s

95th percentile per-packet one-way delay: 170.586 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 169.557 ms

Loss rate: 0.00%

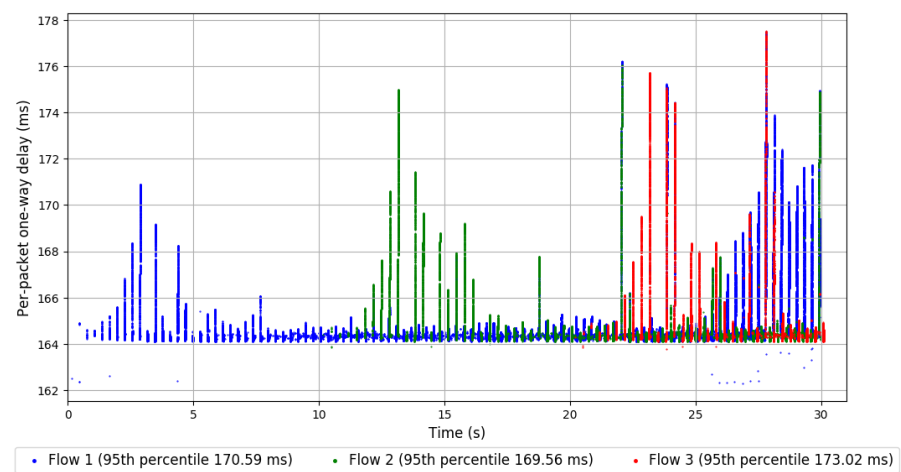
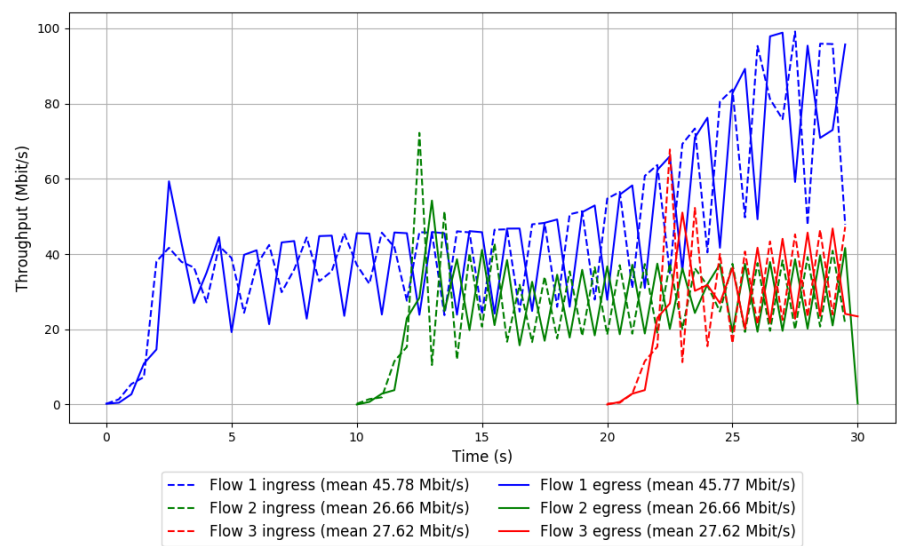
-- Flow 3:

Average throughput: 27.62 Mbit/s

95th percentile per-packet one-way delay: 173.021 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-12 21:19:42

End at: 2017-10-12 21:20:12

Below is generated by plot.py at 2017-10-12 22:47:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 168.513 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 168.422 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 168.594 ms

Loss rate: 0.06%

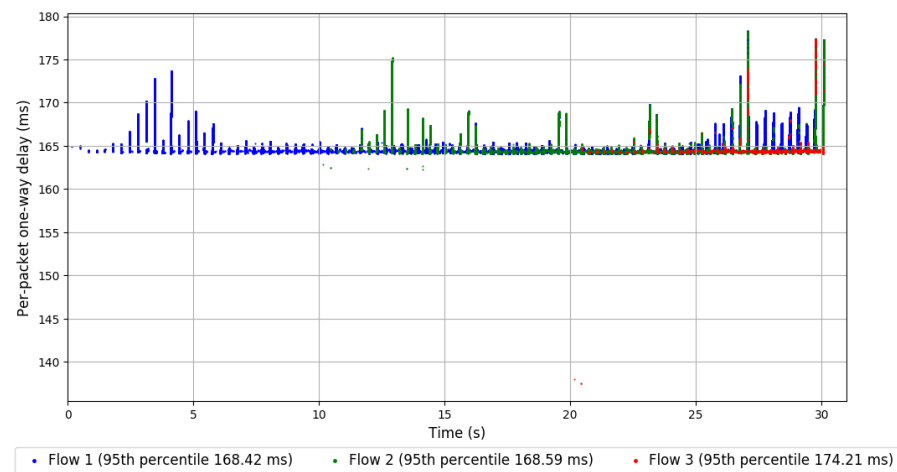
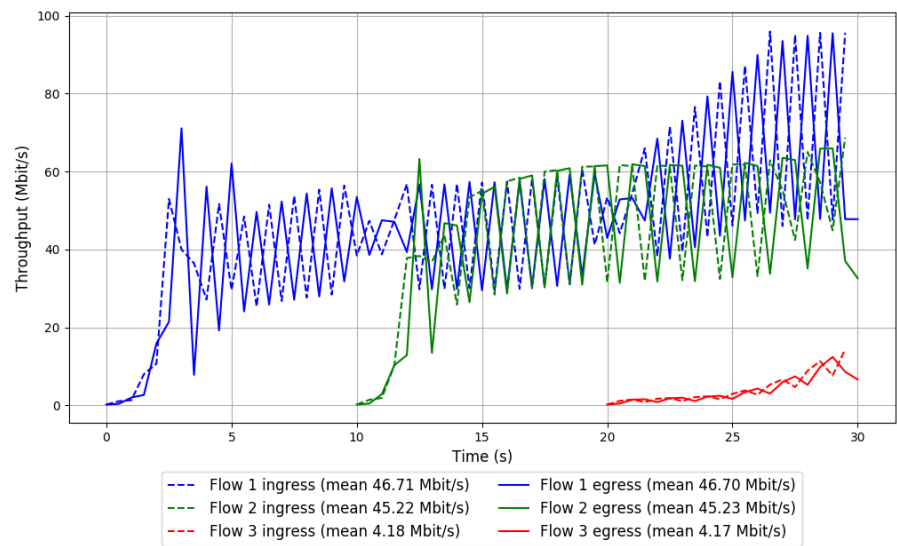
-- Flow 3:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 174.212 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-12 21:33:30

End at: 2017-10-12 21:34:00

Below is generated by plot.py at 2017-10-12 22:47:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 172.655 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 169.455 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 172.745 ms

Loss rate: 0.43%

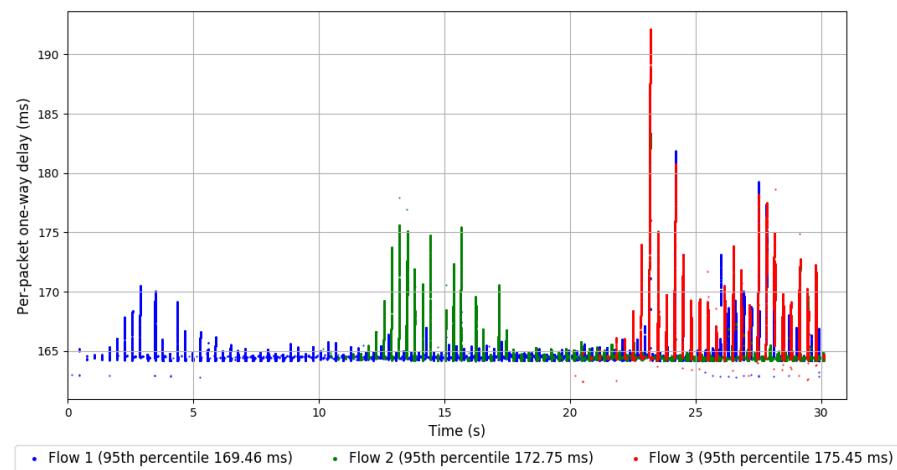
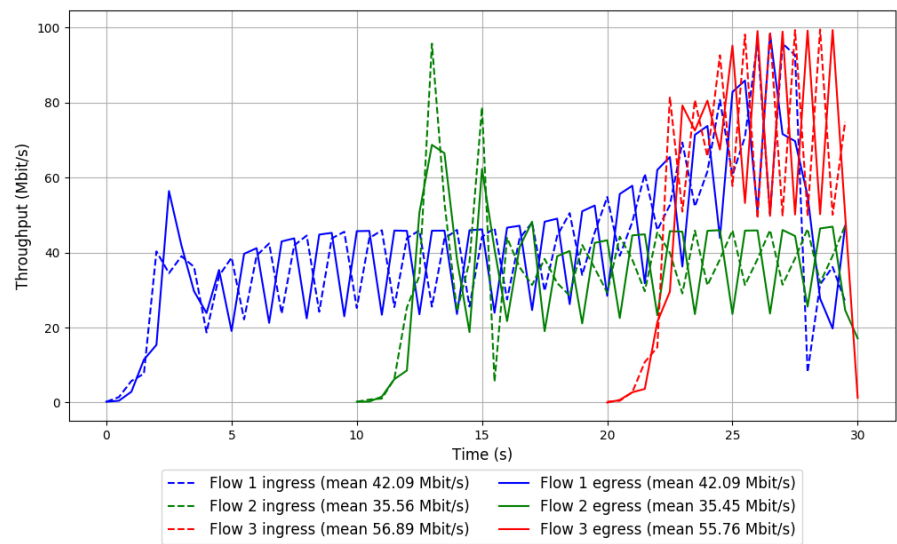
-- Flow 3:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 175.448 ms

Loss rate: 2.10%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-12 21:48:03

End at: 2017-10-12 21:48:33

Below is generated by plot.py at 2017-10-12 22:47:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.06 Mbit/s

95th percentile per-packet one-way delay: 166.389 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 19.32 Mbit/s

95th percentile per-packet one-way delay: 165.448 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 165.996 ms

Loss rate: 0.02%

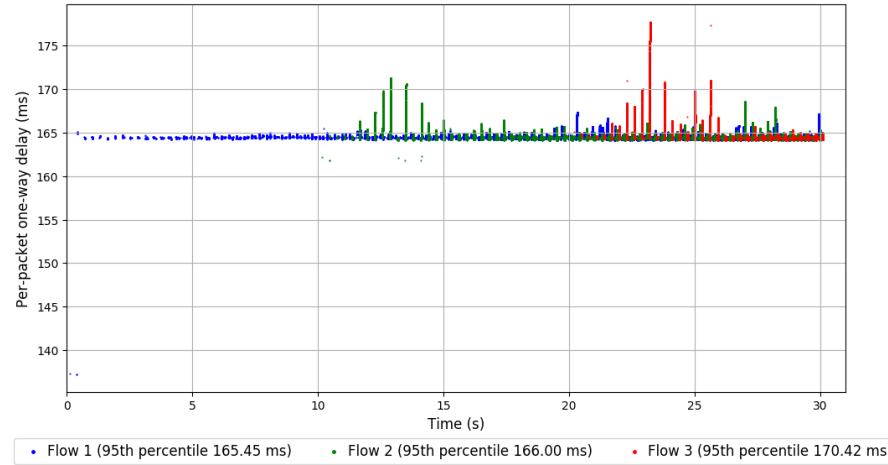
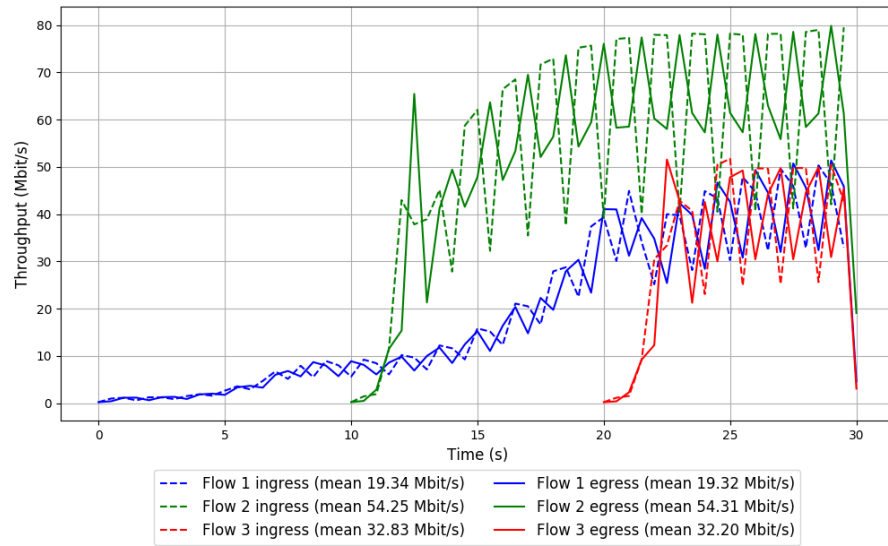
-- Flow 3:

Average throughput: 32.20 Mbit/s

95th percentile per-packet one-way delay: 170.422 ms

Loss rate: 2.17%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-12 22:01:49

End at: 2017-10-12 22:02:19

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 143.035 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.70 Mbit/s

95th percentile per-packet one-way delay: 143.275 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.80 Mbit/s

95th percentile per-packet one-way delay: 141.219 ms

Loss rate: 0.00%

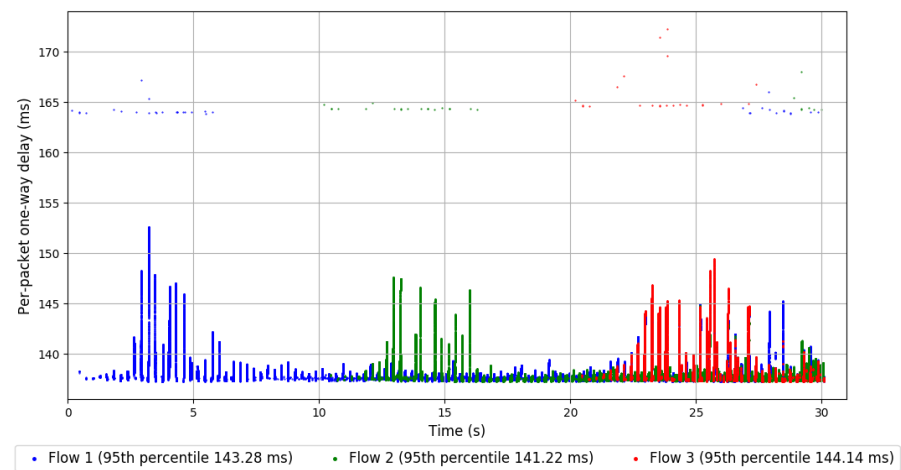
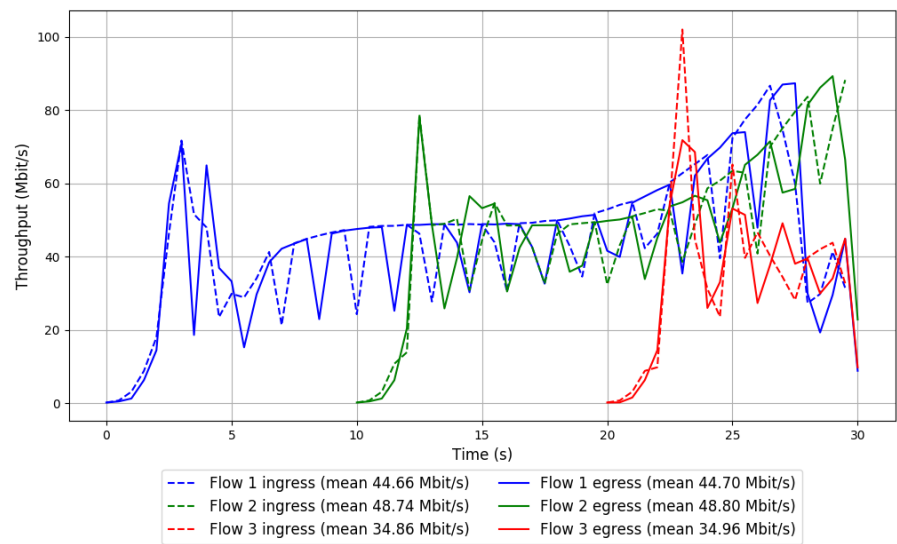
-- Flow 3:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 144.136 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

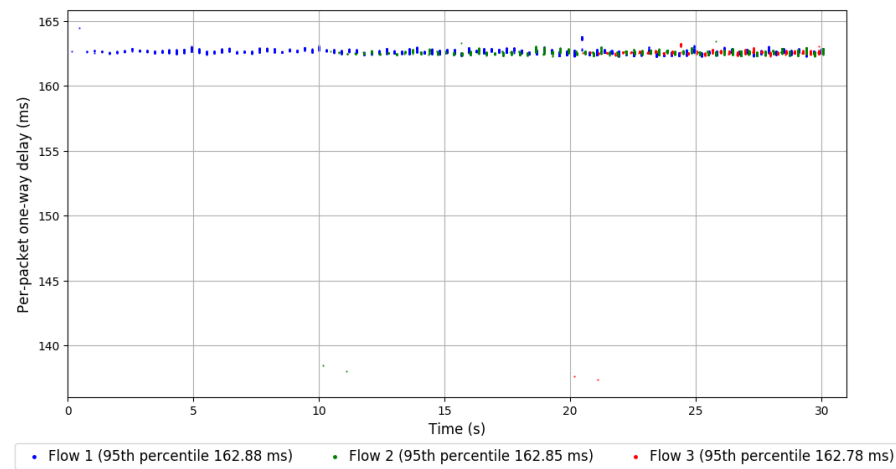
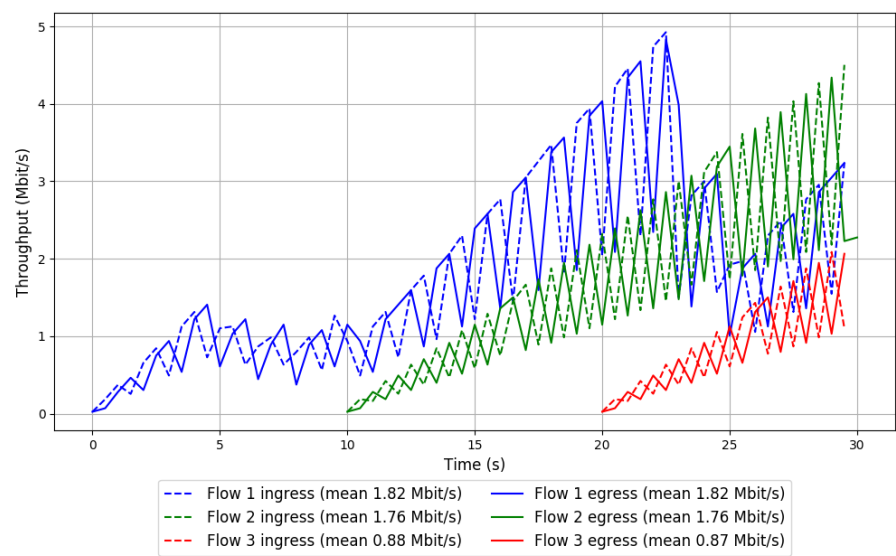


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-12 19:53:29
End at: 2017-10-12 19:53:59

# Below is generated by plot.py at 2017-10-12 22:47:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 162.862 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 162.881 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 162.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 162.782 ms
Loss rate: 0.55%
```


Run 1: Report of LEDBAT — Data Link

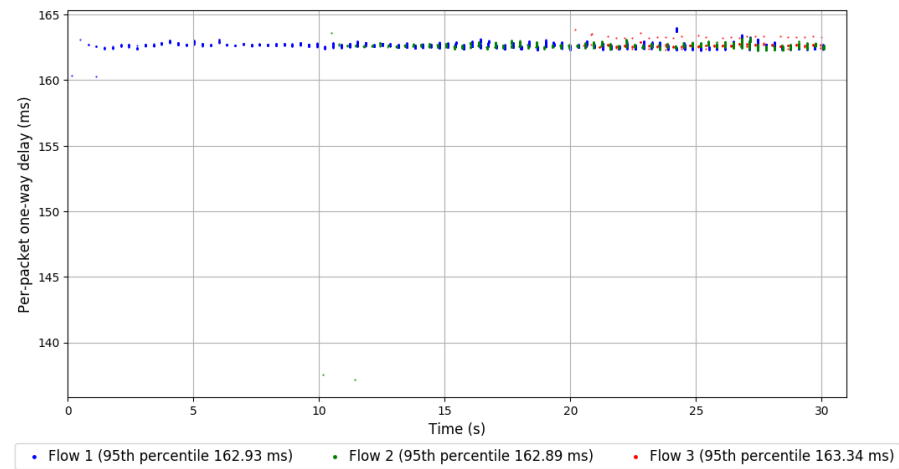
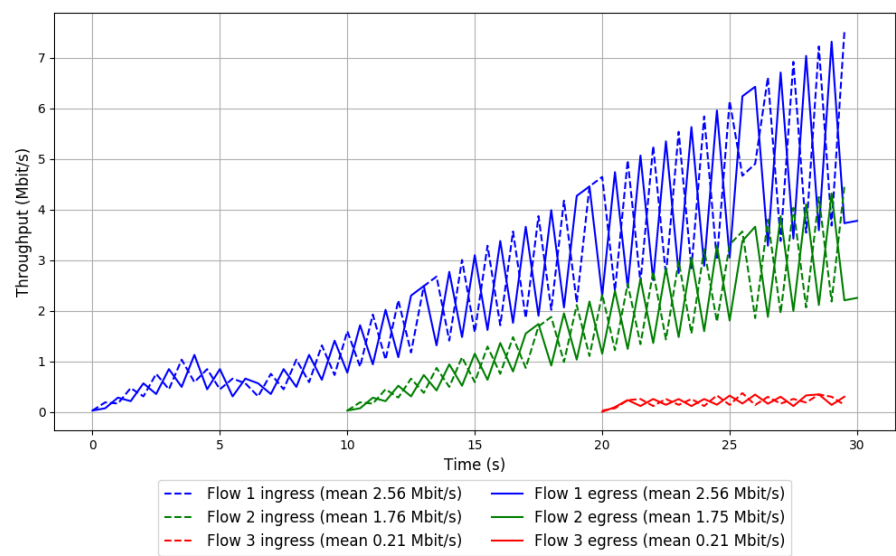


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-12 20:06:59
End at: 2017-10-12 20:07:29

# Below is generated by plot.py at 2017-10-12 22:47:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 162.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 162.930 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 162.886 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 163.340 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-12 20:20:24

End at: 2017-10-12 20:20:54

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 162.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 162.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 162.822 ms

Loss rate: 0.00%

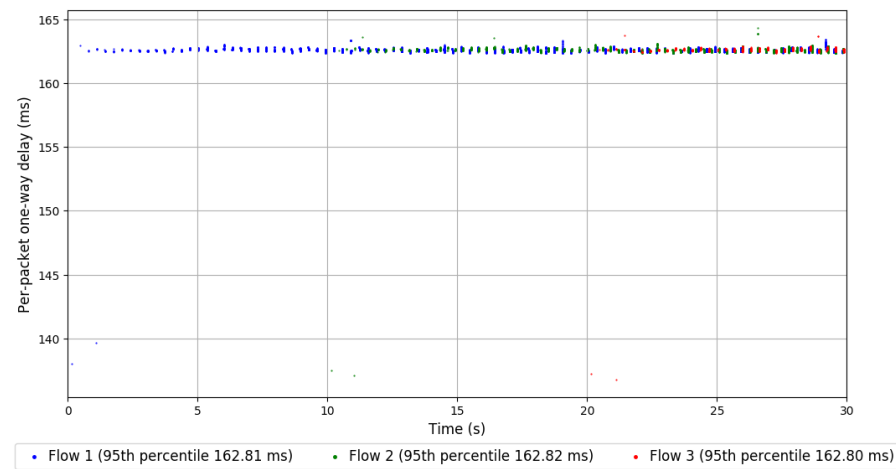
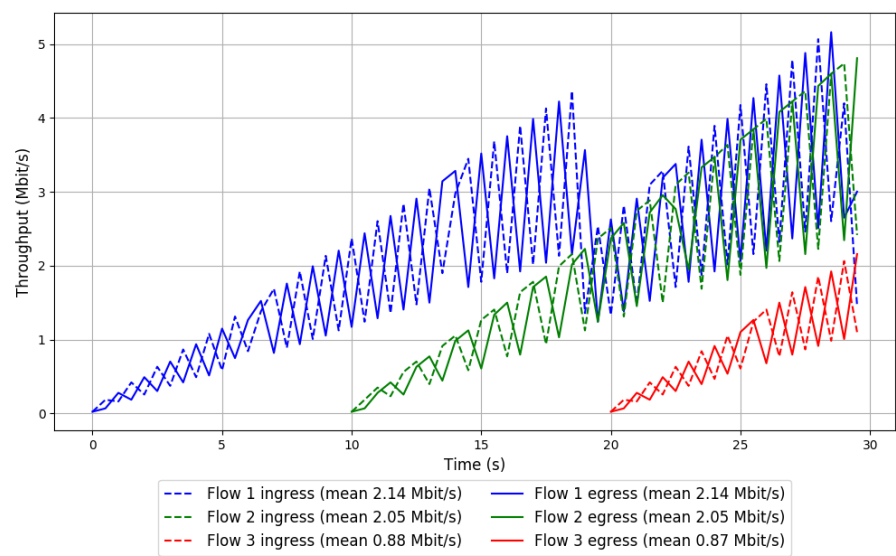
-- Flow 3:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 162.801 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-12 20:33:27

End at: 2017-10-12 20:33:57

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 164.773 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 164.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 164.649 ms

Loss rate: 0.00%

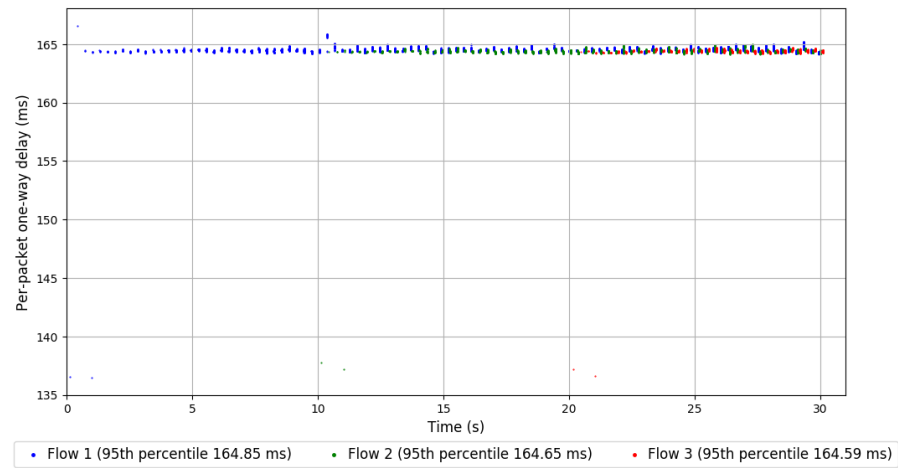
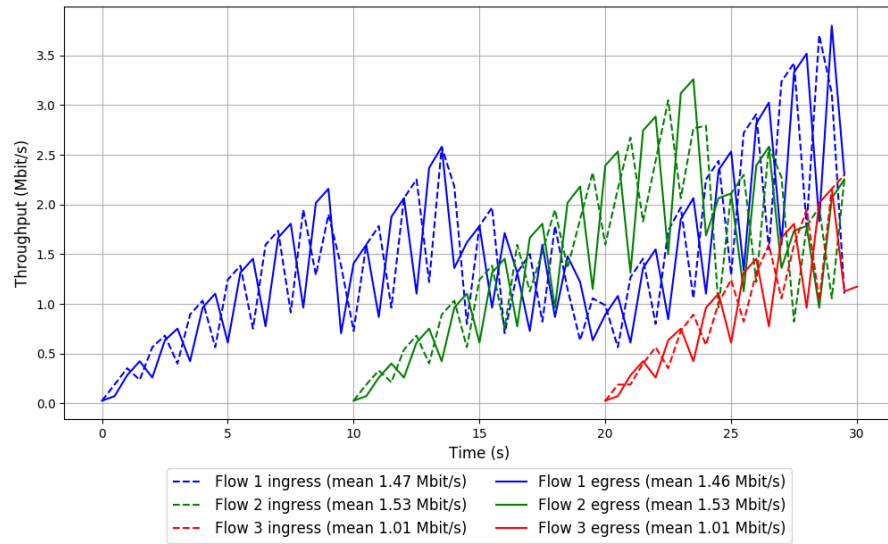
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 164.591 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-12 20:46:59

End at: 2017-10-12 20:47:29

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 164.645 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 164.653 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 164.659 ms

Loss rate: 0.13%

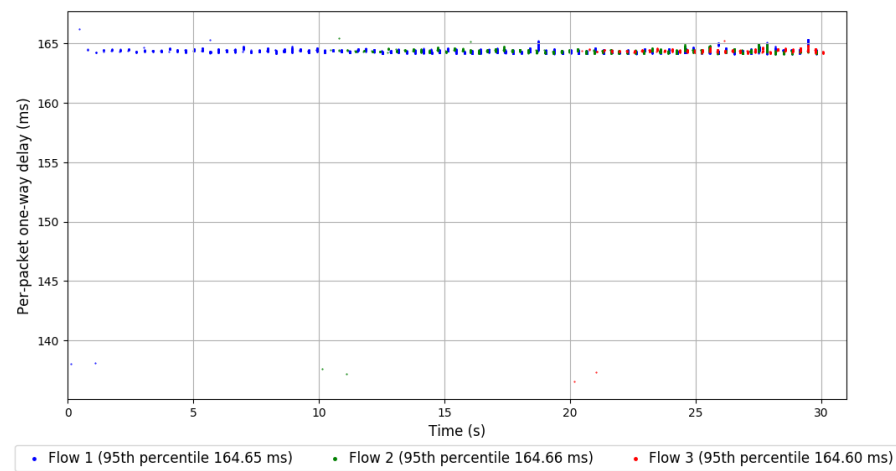
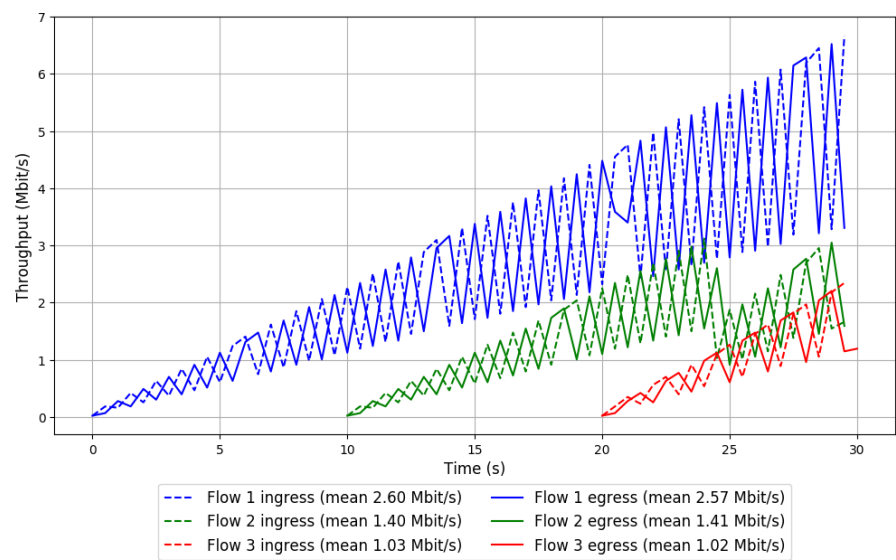
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 164.605 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-12 21:00:25

End at: 2017-10-12 21:00:55

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 164.665 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 164.640 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 164.939 ms

Loss rate: 0.00%

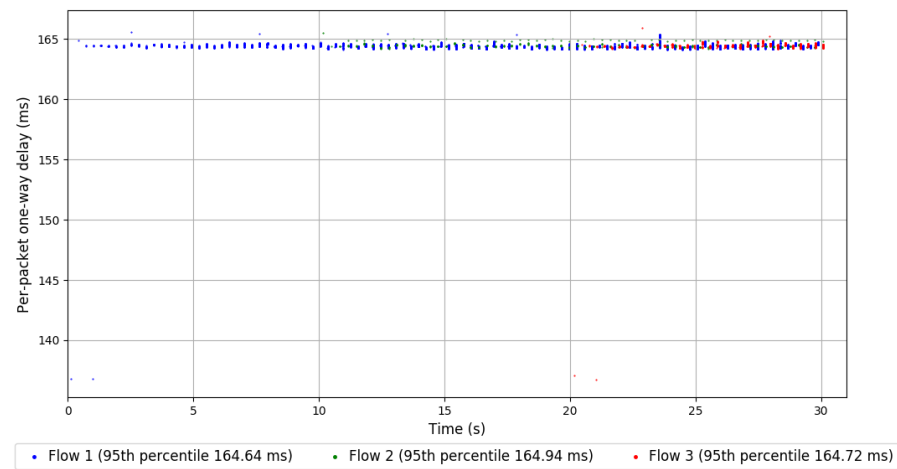
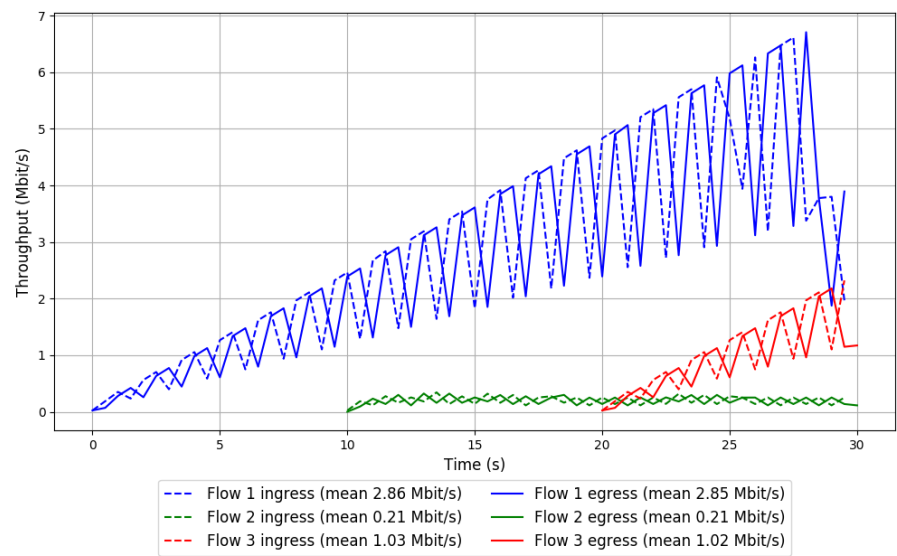
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 164.719 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-12 21:13:57

End at: 2017-10-12 21:14:27

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 164.739 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 164.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 164.984 ms

Loss rate: 0.00%

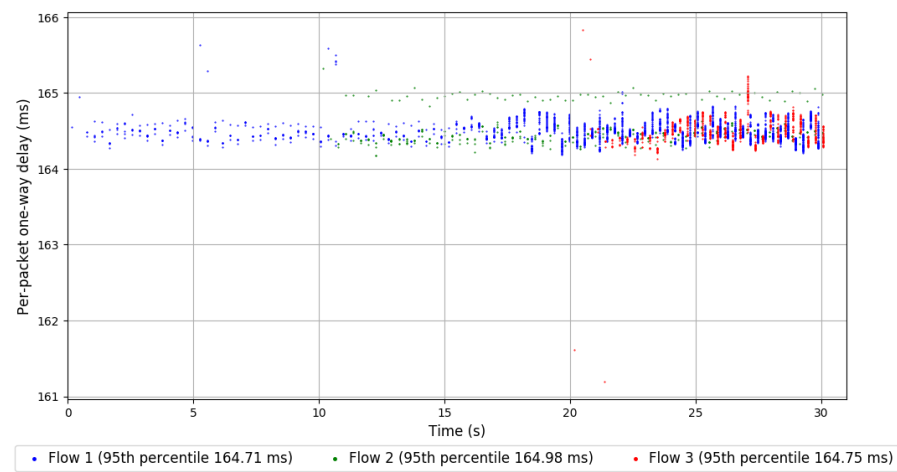
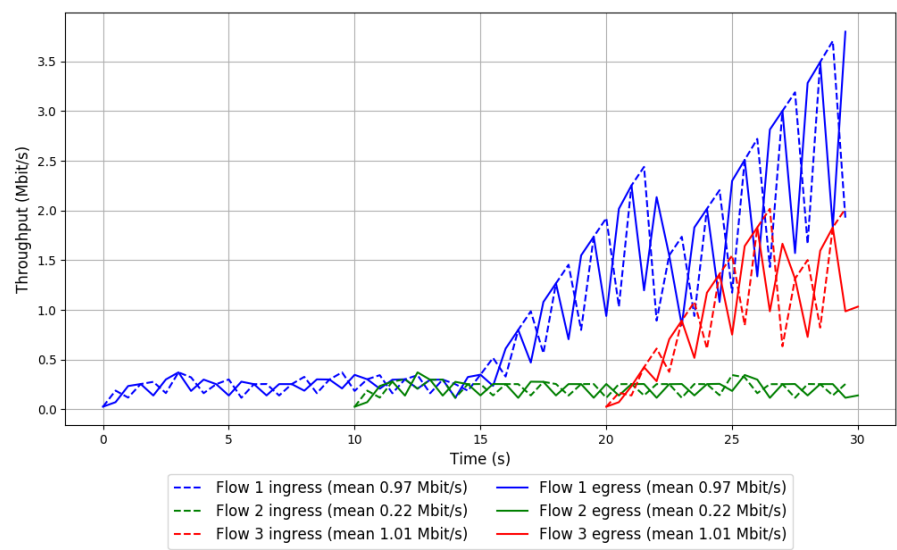
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 164.750 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-12 21:27:45

End at: 2017-10-12 21:28:15

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 164.833 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 164.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 164.857 ms

Loss rate: 0.00%

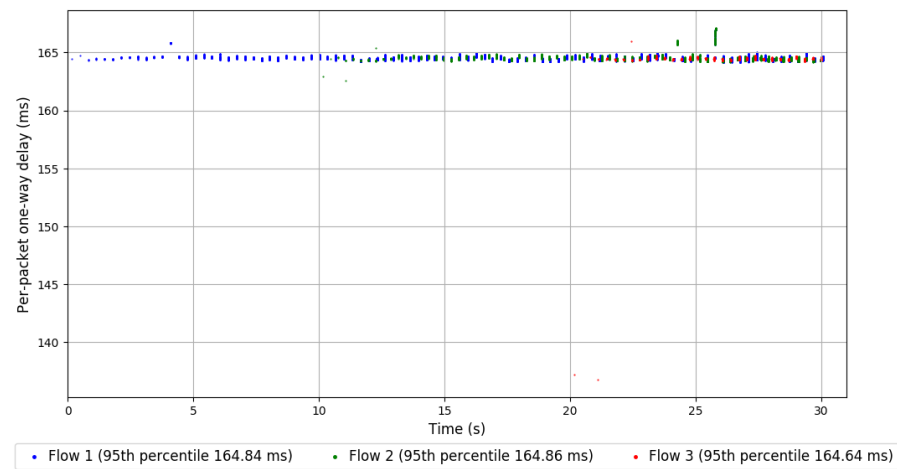
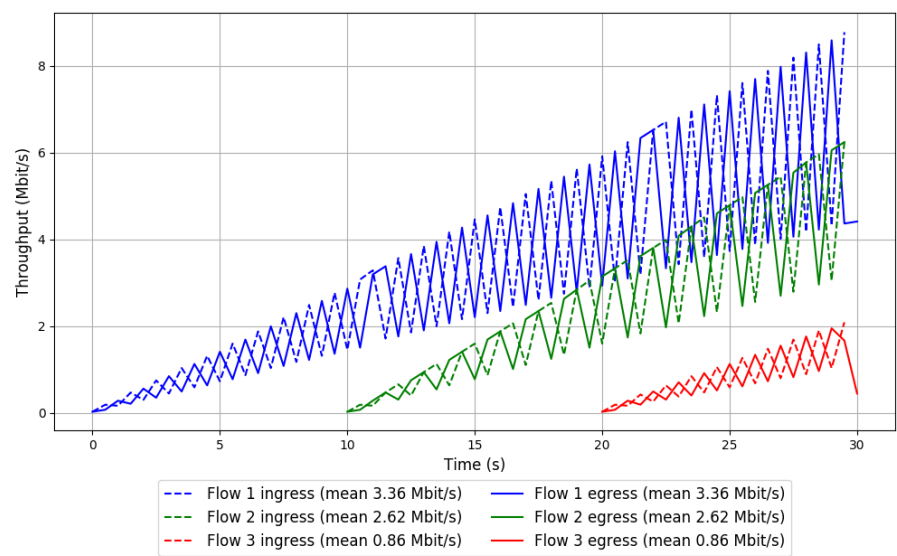
-- Flow 3:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 164.642 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-12 21:41:52

End at: 2017-10-12 21:42:22

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 164.783 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 5026.457 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 164.736 ms

Loss rate: 0.00%

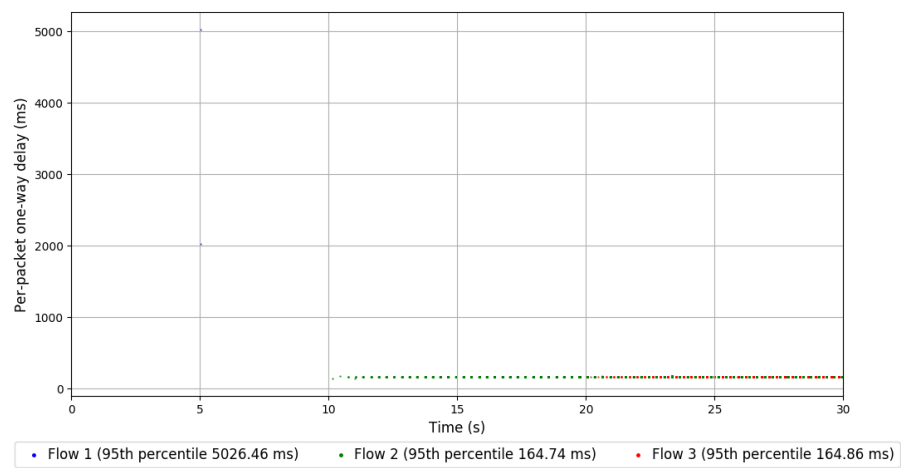
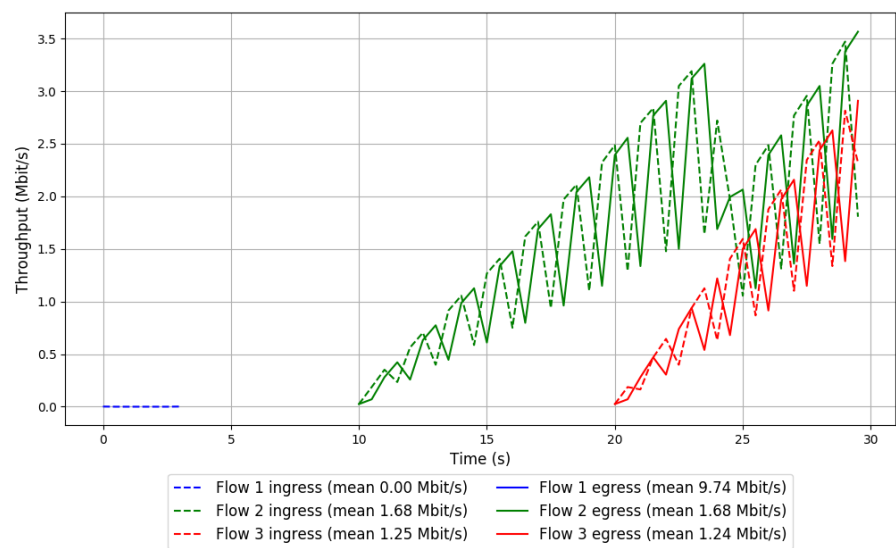
-- Flow 3:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 164.863 ms

Loss rate: 3.40%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-12 21:55:50

End at: 2017-10-12 21:56:20

Below is generated by plot.py at 2017-10-12 22:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 138.392 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 138.472 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 138.228 ms

Loss rate: 0.00%

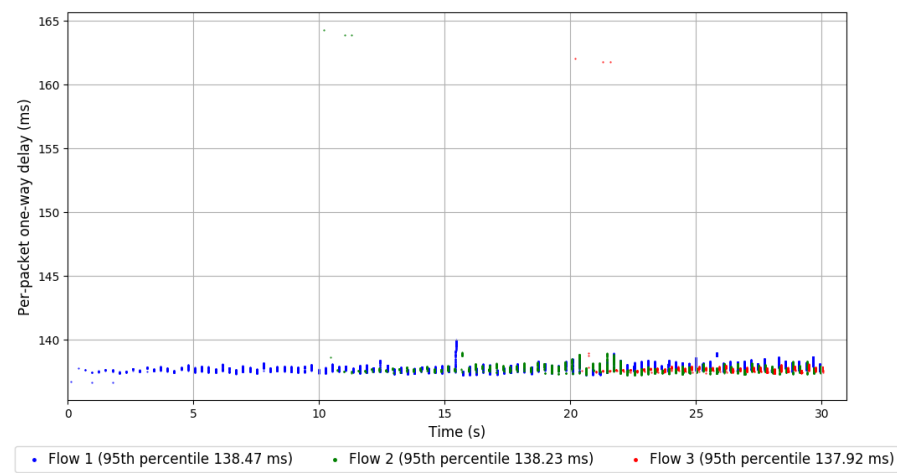
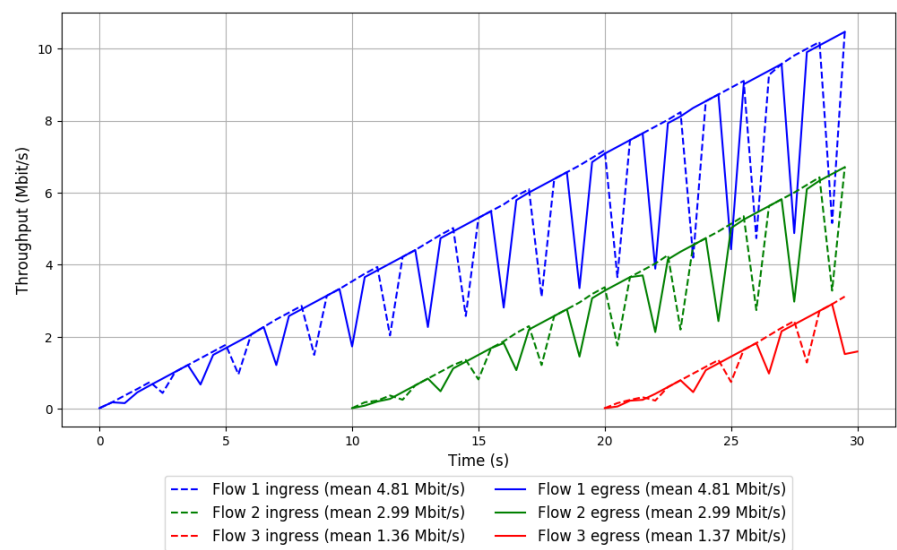
-- Flow 3:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 137.917 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

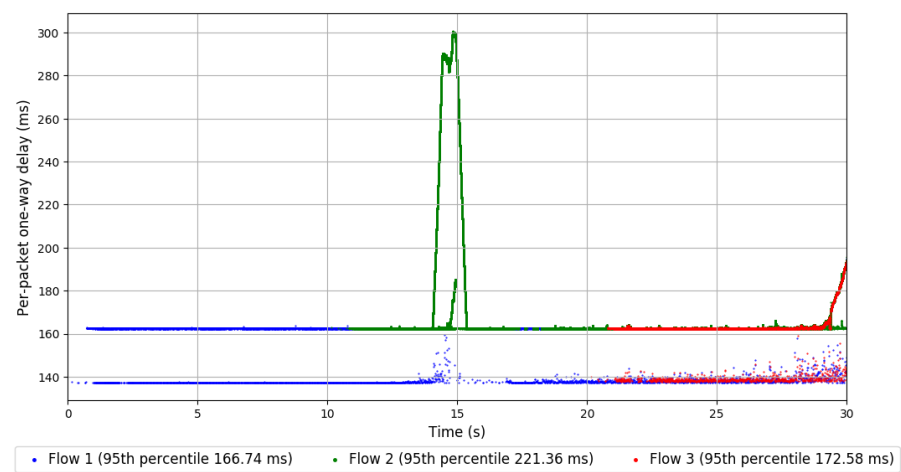
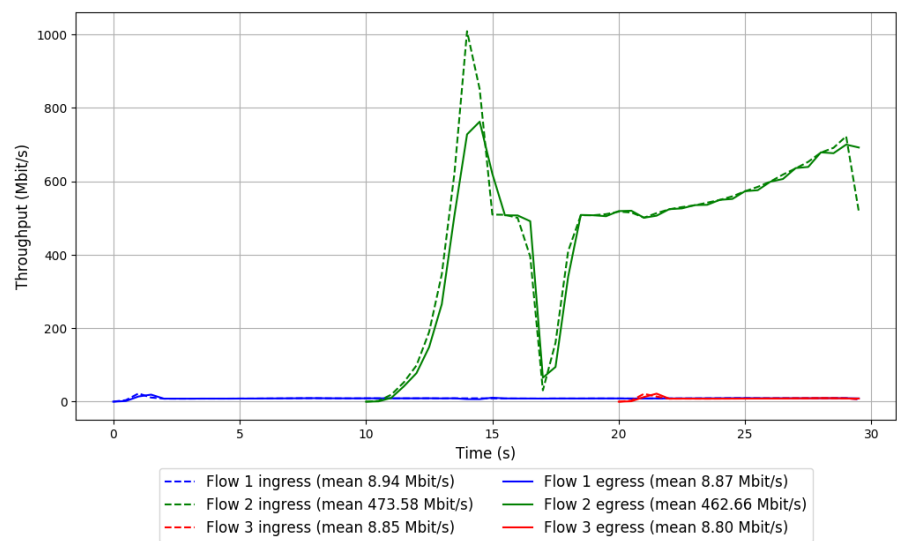


```
Run 1: Statistics of PCC

Start at: 2017-10-12 20:02:04
End at: 2017-10-12 20:02:34

# Below is generated by plot.py at 2017-10-12 22:51:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.97 Mbit/s
95th percentile per-packet one-way delay: 217.741 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 166.739 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 462.66 Mbit/s
95th percentile per-packet one-way delay: 221.359 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 172.582 ms
Loss rate: 0.59%
```

Run 1: Report of PCC — Data Link

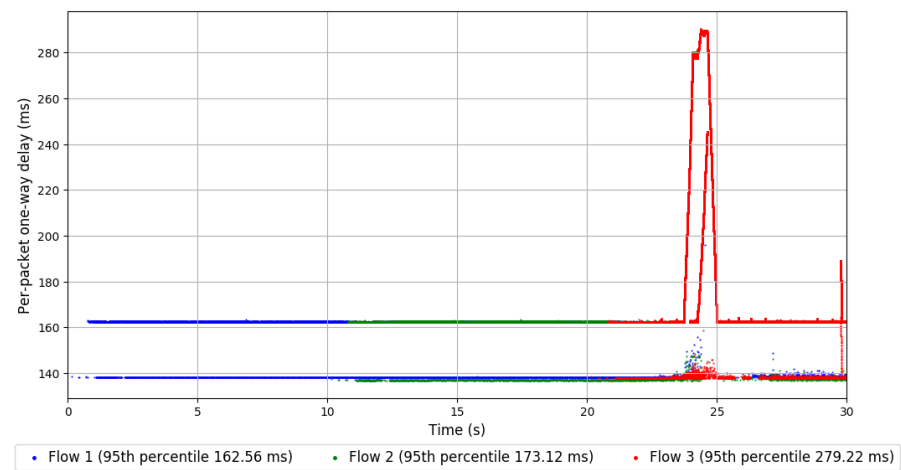
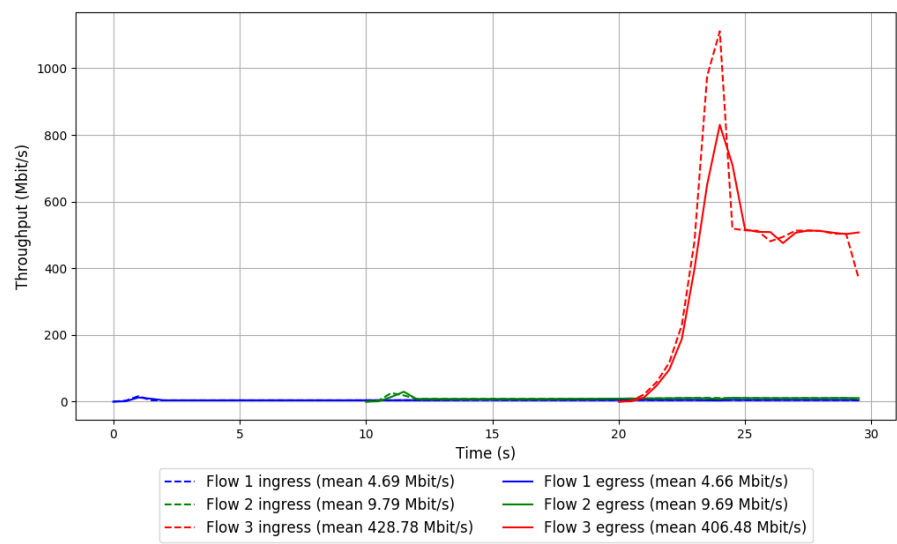


```
Run 2: Statistics of PCC

Start at: 2017-10-12 20:15:40
End at: 2017-10-12 20:16:10

# Below is generated by plot.py at 2017-10-12 22:51:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.97 Mbit/s
95th percentile per-packet one-way delay: 279.054 ms
Loss rate: 4.88%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 162.559 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 173.125 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 406.48 Mbit/s
95th percentile per-packet one-way delay: 279.224 ms
Loss rate: 5.20%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-12 20:28:45

End at: 2017-10-12 20:29:15

Below is generated by plot.py at 2017-10-12 22:51:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.64 Mbit/s

95th percentile per-packet one-way delay: 316.132 ms

Loss rate: 5.92%

-- Flow 1:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 224.971 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 181.918 ms

Loss rate: 1.23%

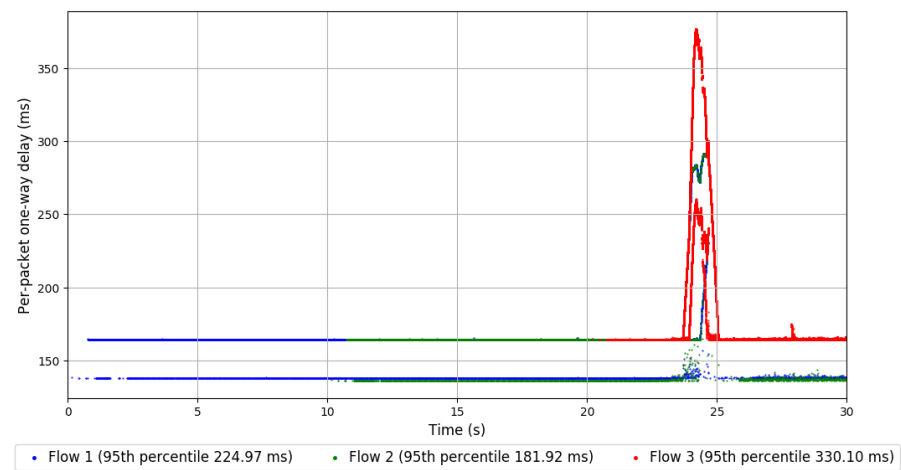
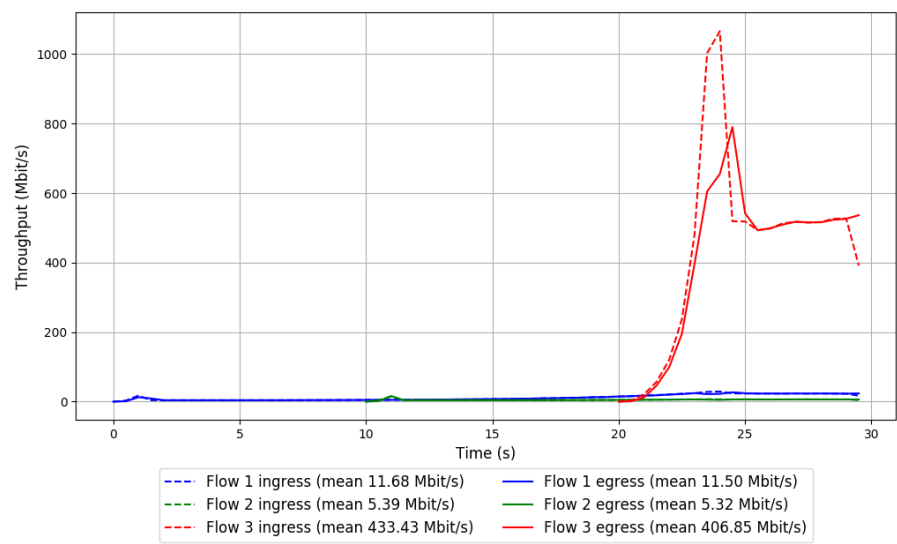
-- Flow 3:

Average throughput: 406.85 Mbit/s

95th percentile per-packet one-way delay: 330.101 ms

Loss rate: 6.39%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-12 20:42:18

End at: 2017-10-12 20:42:49

Below is generated by plot.py at 2017-10-12 22:51:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.87 Mbit/s

95th percentile per-packet one-way delay: 164.242 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 164.302 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 164.213 ms

Loss rate: 0.14%

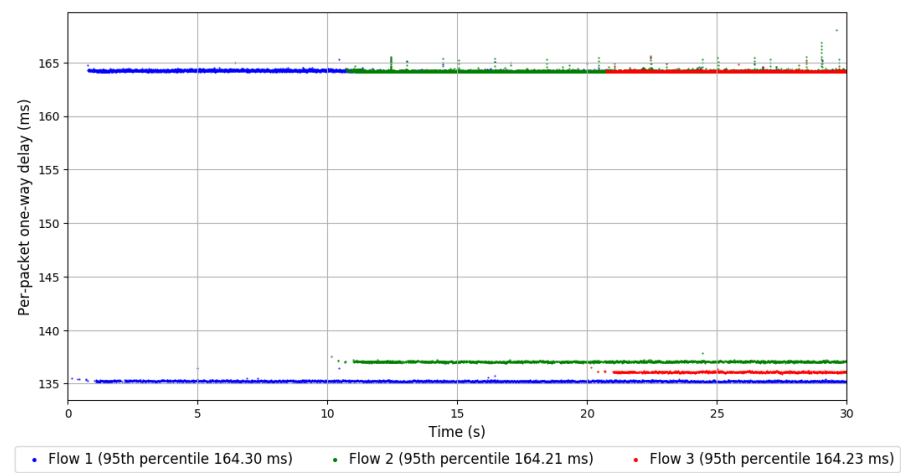
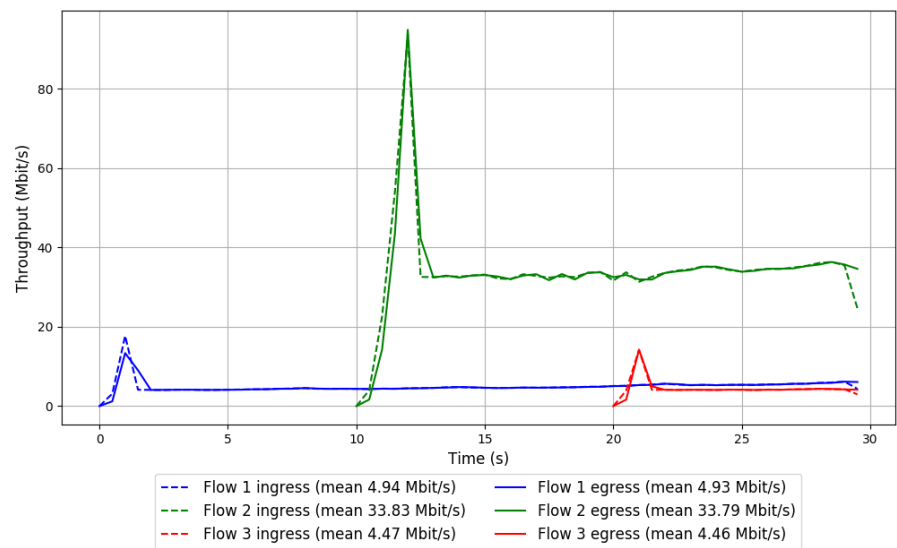
-- Flow 3:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 164.232 ms

Loss rate: 0.27%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-12 20:55:36

End at: 2017-10-12 20:56:06

Below is generated by plot.py at 2017-10-12 22:52:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.57 Mbit/s

95th percentile per-packet one-way delay: 257.713 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 223.765 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 473.92 Mbit/s

95th percentile per-packet one-way delay: 257.938 ms

Loss rate: 2.92%

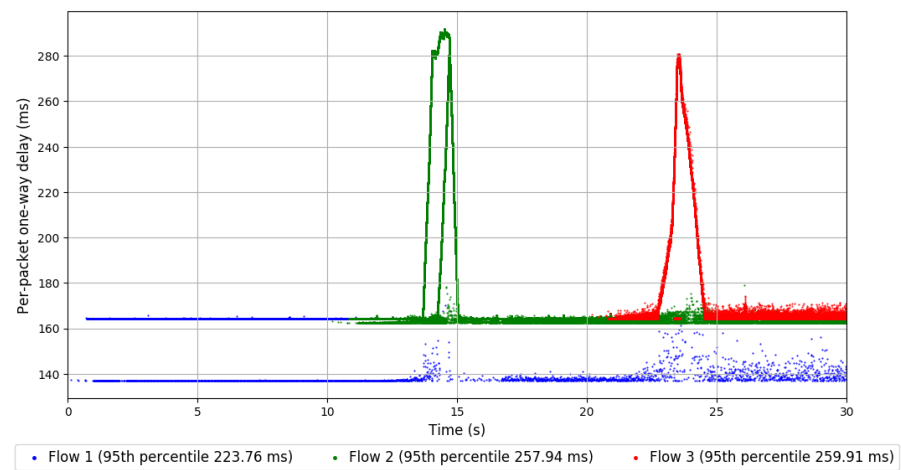
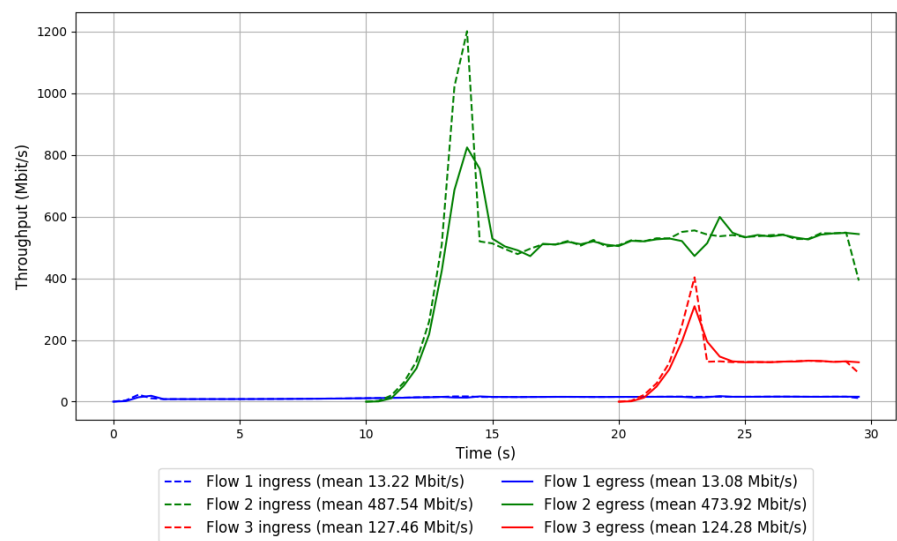
-- Flow 3:

Average throughput: 124.28 Mbit/s

95th percentile per-packet one-way delay: 259.909 ms

Loss rate: 2.77%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-12 21:08:57

End at: 2017-10-12 21:09:27

Below is generated by plot.py at 2017-10-12 22:57:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.67 Mbit/s

95th percentile per-packet one-way delay: 336.612 ms

Loss rate: 4.14%

-- Flow 1:

Average throughput: 484.80 Mbit/s

95th percentile per-packet one-way delay: 344.220 ms

Loss rate: 4.49%

-- Flow 2:

Average throughput: 126.90 Mbit/s

95th percentile per-packet one-way delay: 264.308 ms

Loss rate: 2.29%

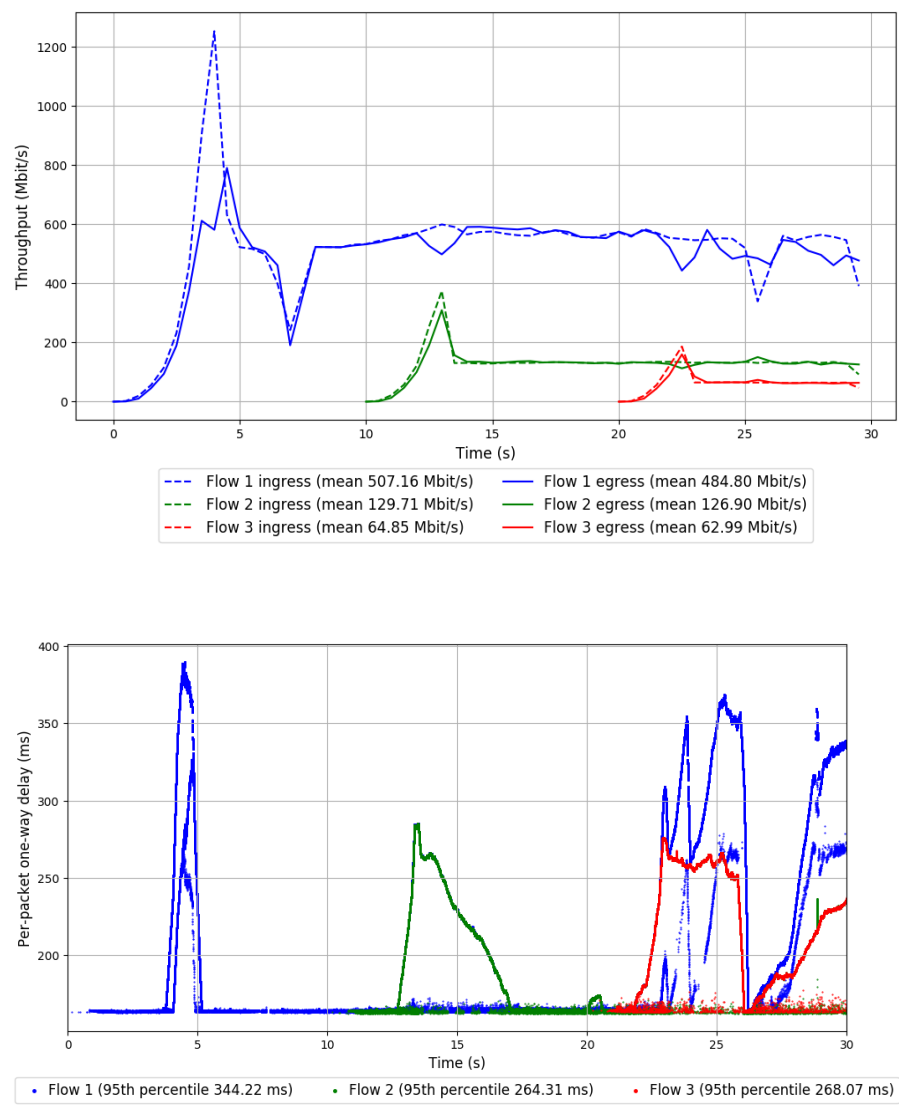
-- Flow 3:

Average throughput: 62.99 Mbit/s

95th percentile per-packet one-way delay: 268.075 ms

Loss rate: 3.13%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-12 21:22:44

End at: 2017-10-12 21:23:14

Below is generated by plot.py at 2017-10-12 22:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.87 Mbit/s

95th percentile per-packet one-way delay: 234.966 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 585.58 Mbit/s

95th percentile per-packet one-way delay: 235.146 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 228.156 ms

Loss rate: 0.12%

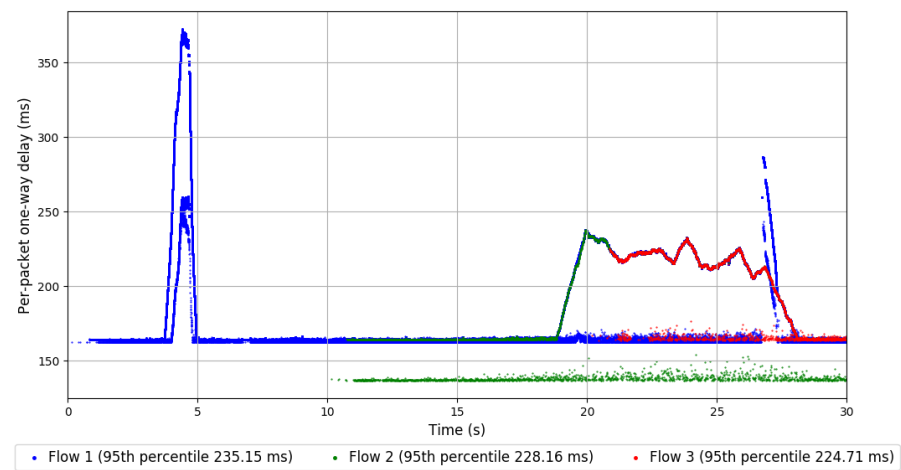
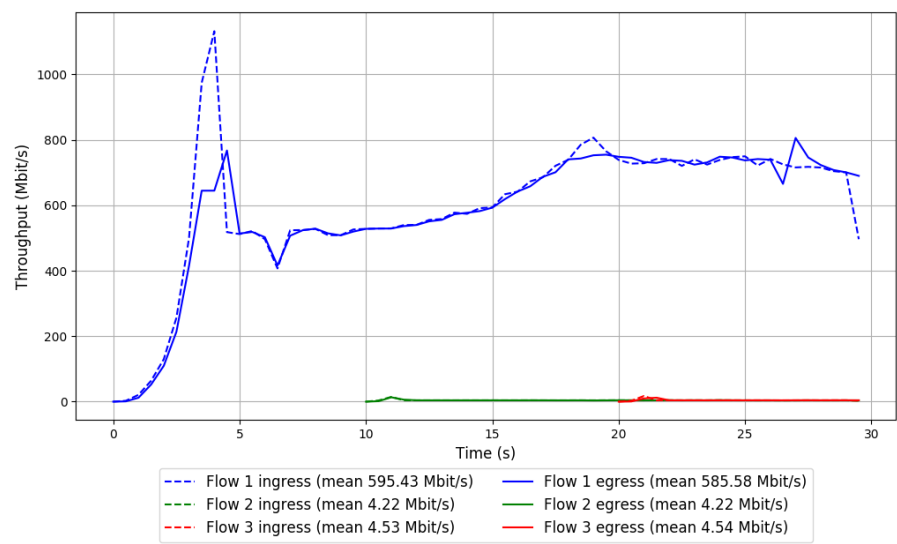
-- Flow 3:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 224.709 ms

Loss rate: 0.25%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-12 21:36:38

End at: 2017-10-12 21:37:08

Below is generated by plot.py at 2017-10-12 22:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 557.70 Mbit/s

95th percentile per-packet one-way delay: 264.198 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 454.23 Mbit/s

95th percentile per-packet one-way delay: 264.452 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 123.60 Mbit/s

95th percentile per-packet one-way delay: 261.228 ms

Loss rate: 1.20%

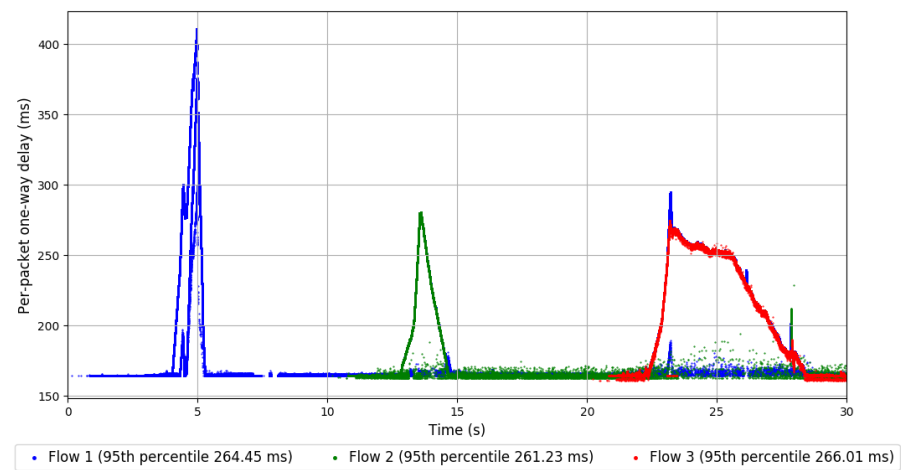
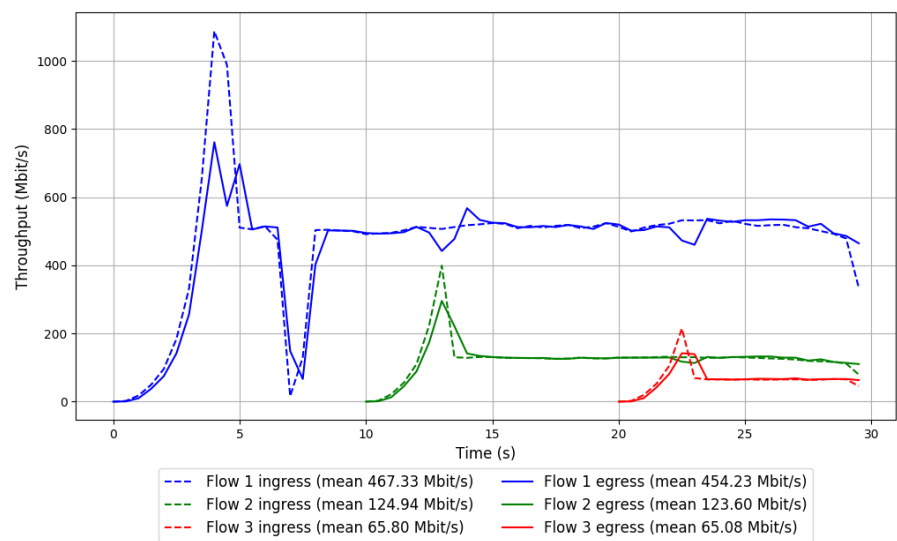
-- Flow 3:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 266.014 ms

Loss rate: 1.33%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-12 21:51:06

End at: 2017-10-12 21:51:36

Below is generated by plot.py at 2017-10-12 22:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.68 Mbit/s

95th percentile per-packet one-way delay: 281.357 ms

Loss rate: 4.26%

-- Flow 1:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 164.429 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 164.602 ms

Loss rate: 0.70%

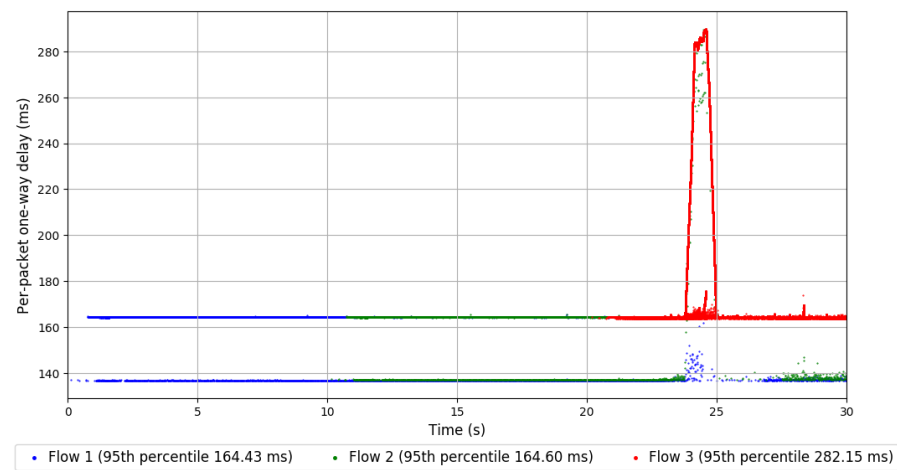
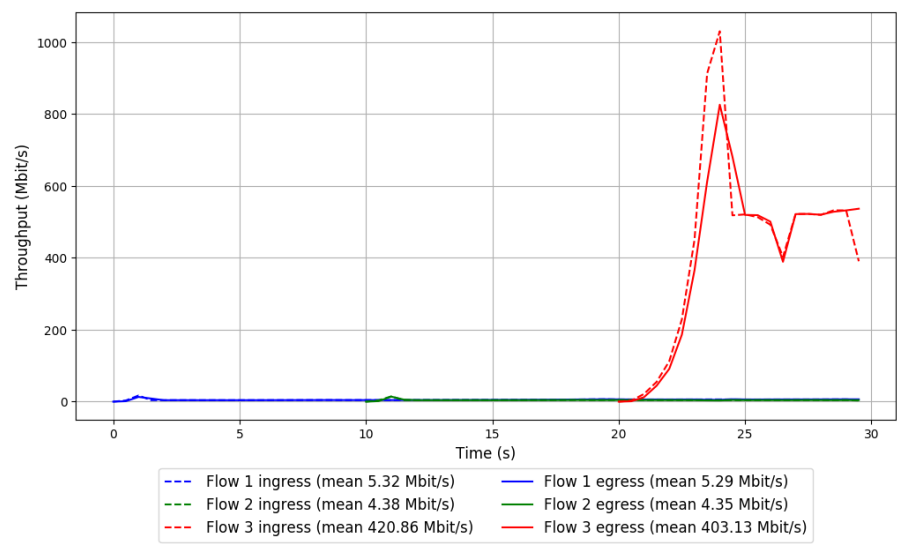
-- Flow 3:

Average throughput: 403.13 Mbit/s

95th percentile per-packet one-way delay: 282.152 ms

Loss rate: 4.47%

Run 9: Report of PCC — Data Link

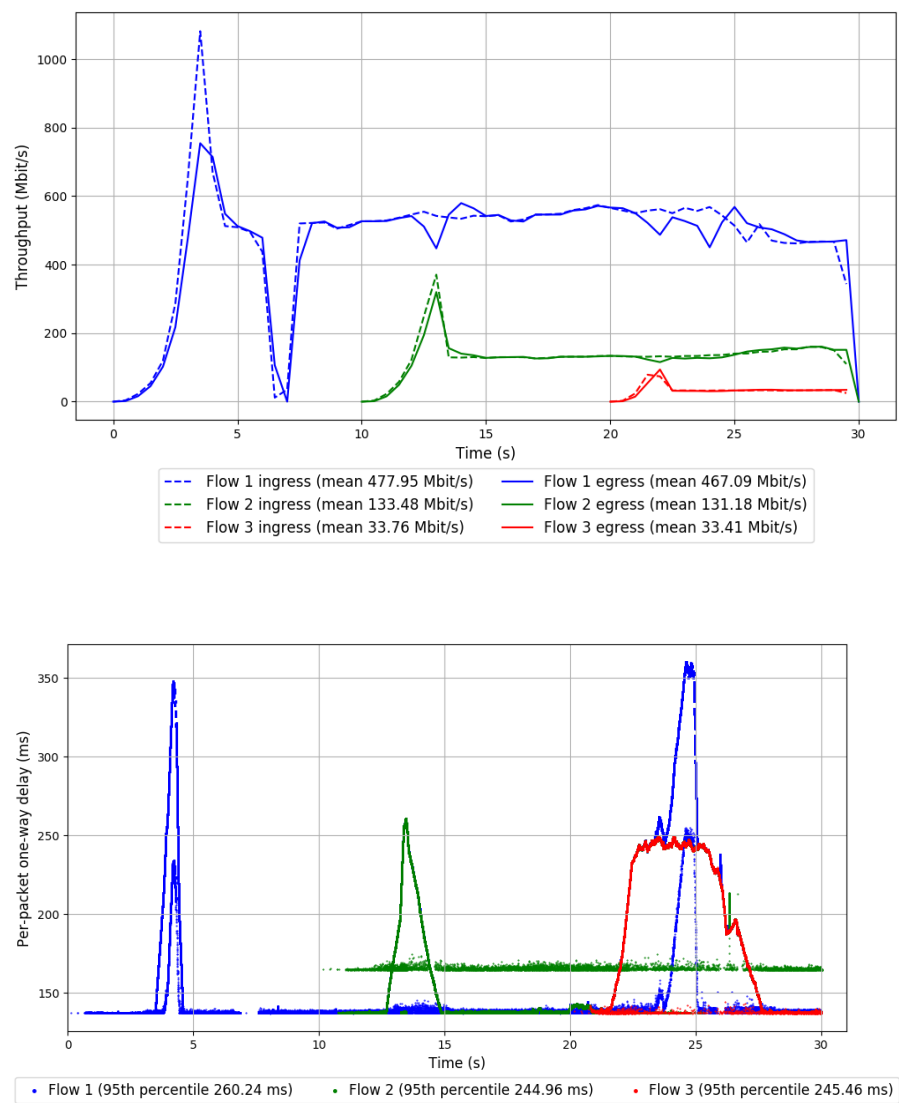


```
Run 10: Statistics of PCC

Start at: 2017-10-12 22:04:55
End at: 2017-10-12 22:05:25

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 564.80 Mbit/s
95th percentile per-packet one-way delay: 255.158 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 467.09 Mbit/s
95th percentile per-packet one-way delay: 260.241 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 131.18 Mbit/s
95th percentile per-packet one-way delay: 244.962 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 33.41 Mbit/s
95th percentile per-packet one-way delay: 245.464 ms
Loss rate: 1.07%
```

Run 10: Report of PCC — Data Link

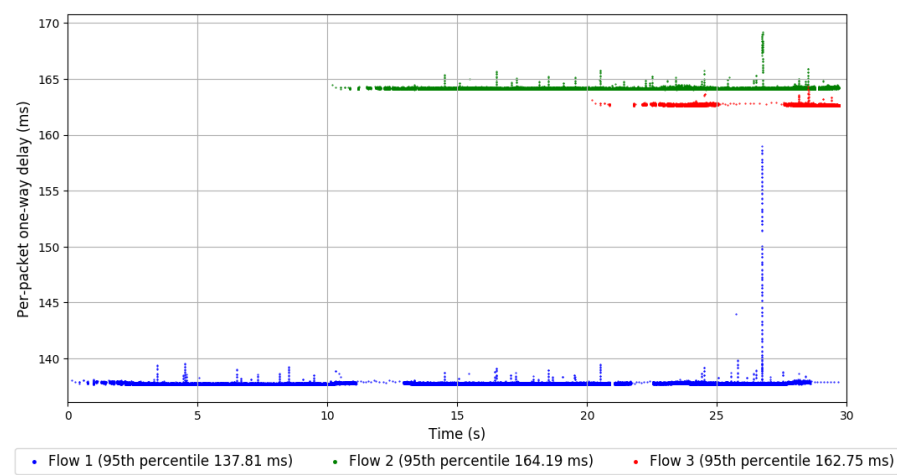
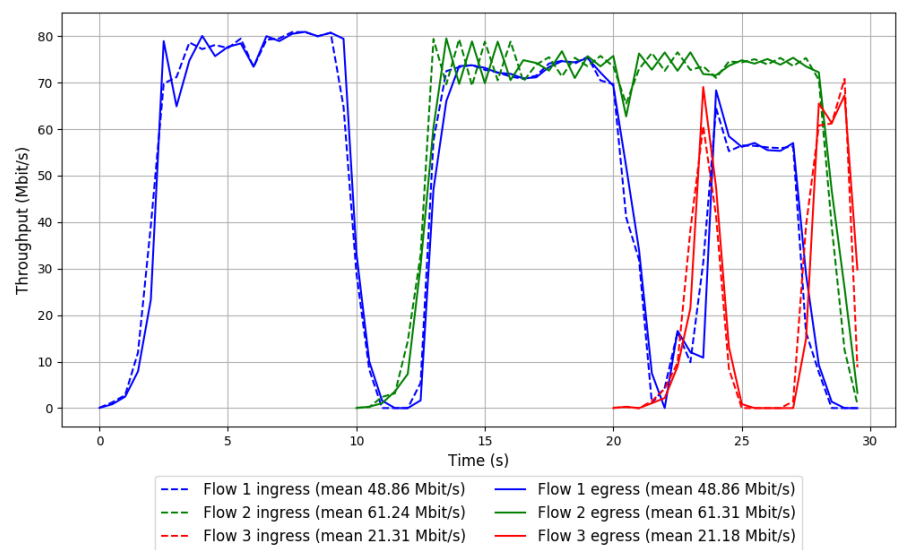


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-12 19:56:24
End at: 2017-10-12 19:56:54

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 164.164 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 48.86 Mbit/s
95th percentile per-packet one-way delay: 137.807 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.31 Mbit/s
95th percentile per-packet one-way delay: 164.192 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 162.753 ms
Loss rate: 0.85%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-12 20:09:54

End at: 2017-10-12 20:10:24

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.93 Mbit/s

95th percentile per-packet one-way delay: 160.948 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 66.51 Mbit/s

95th percentile per-packet one-way delay: 137.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 137.228 ms

Loss rate: 0.00%

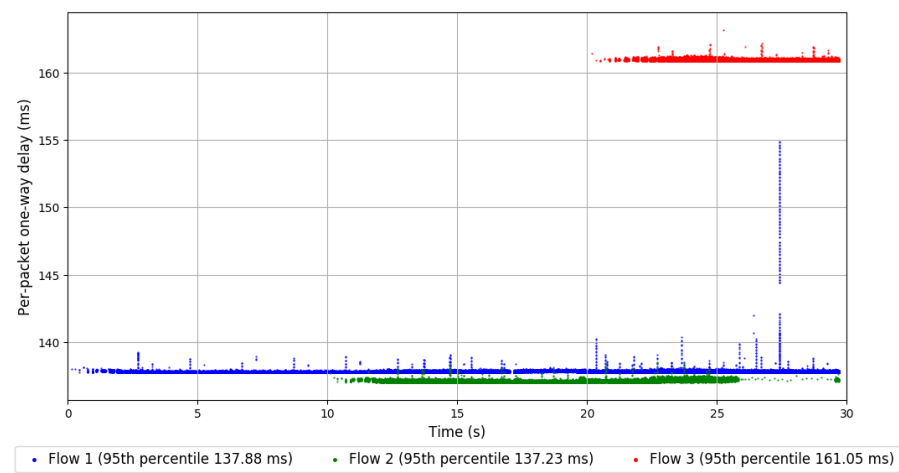
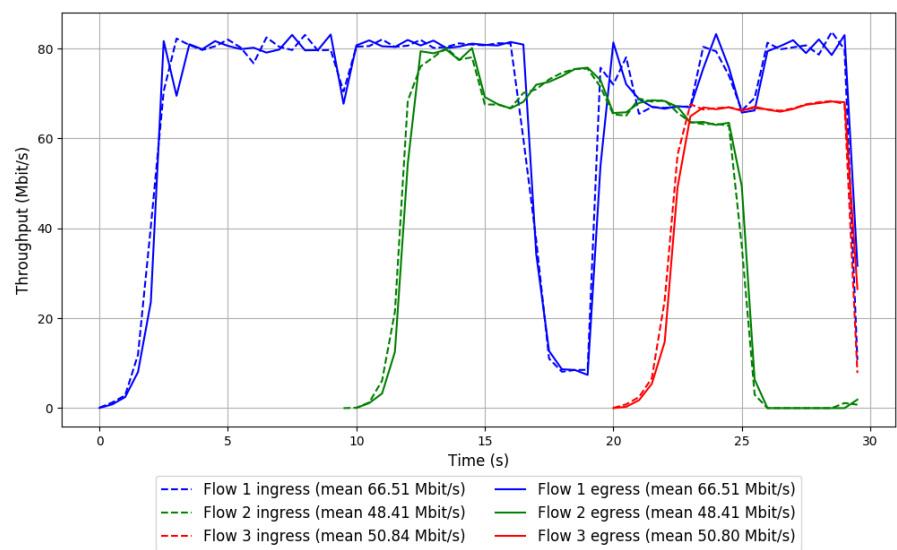
-- Flow 3:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 161.052 ms

Loss rate: 0.31%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-12 20:22:58

End at: 2017-10-12 20:23:28

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.96 Mbit/s

95th percentile per-packet one-way delay: 164.163 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 68.21 Mbit/s

95th percentile per-packet one-way delay: 136.632 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 163.257 ms

Loss rate: 0.05%

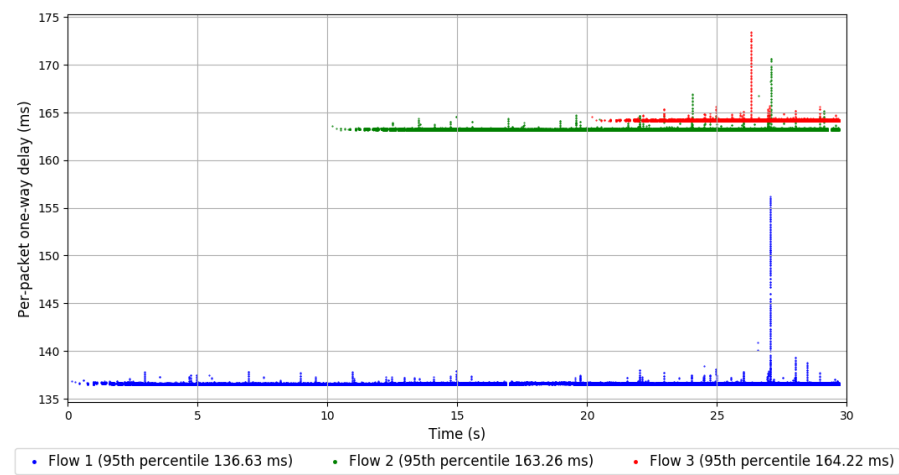
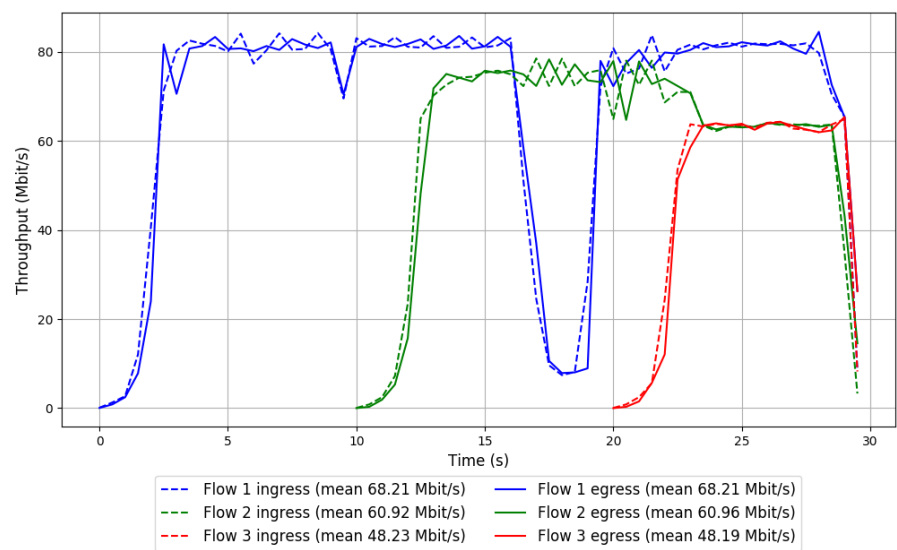
-- Flow 3:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 164.221 ms

Loss rate: 0.36%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-12 20:36:39

End at: 2017-10-12 20:37:09

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.09 Mbit/s

95th percentile per-packet one-way delay: 137.866 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 137.144 ms

Loss rate: 0.00%

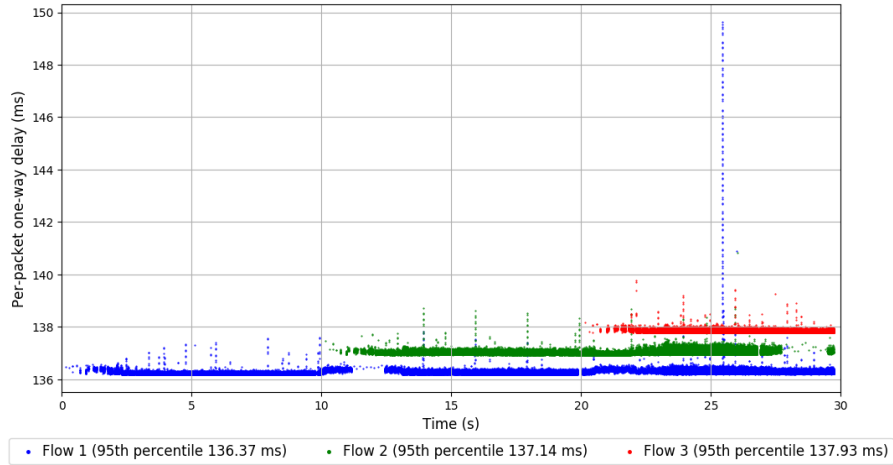
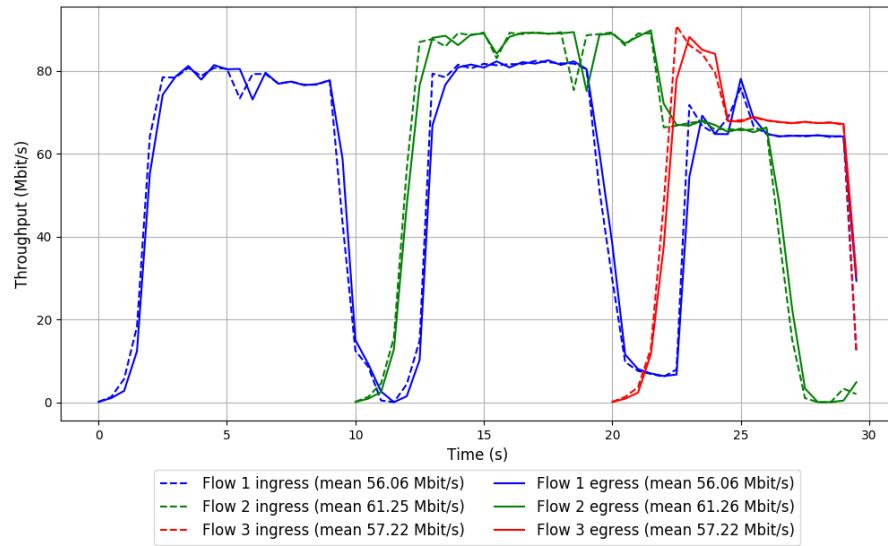
-- Flow 3:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 137.933 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-12 20:49:57

End at: 2017-10-12 20:50:27

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.57 Mbit/s

95th percentile per-packet one-way delay: 162.765 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.40 Mbit/s

95th percentile per-packet one-way delay: 137.984 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.48 Mbit/s

95th percentile per-packet one-way delay: 162.836 ms

Loss rate: 0.02%

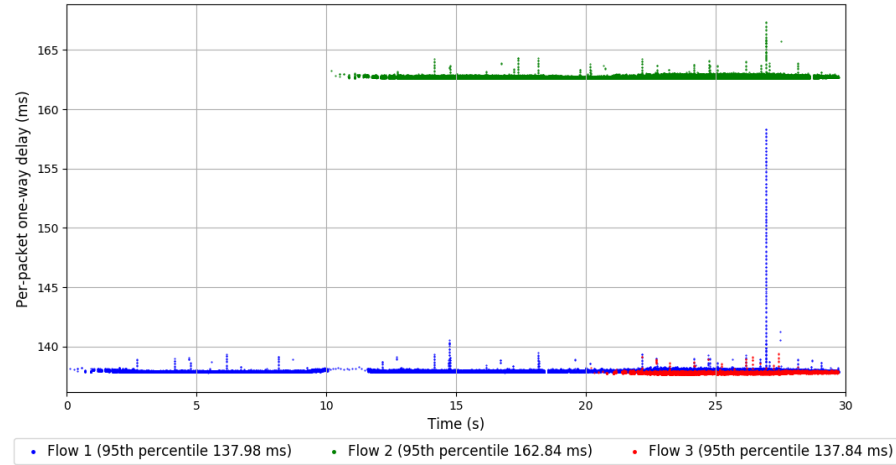
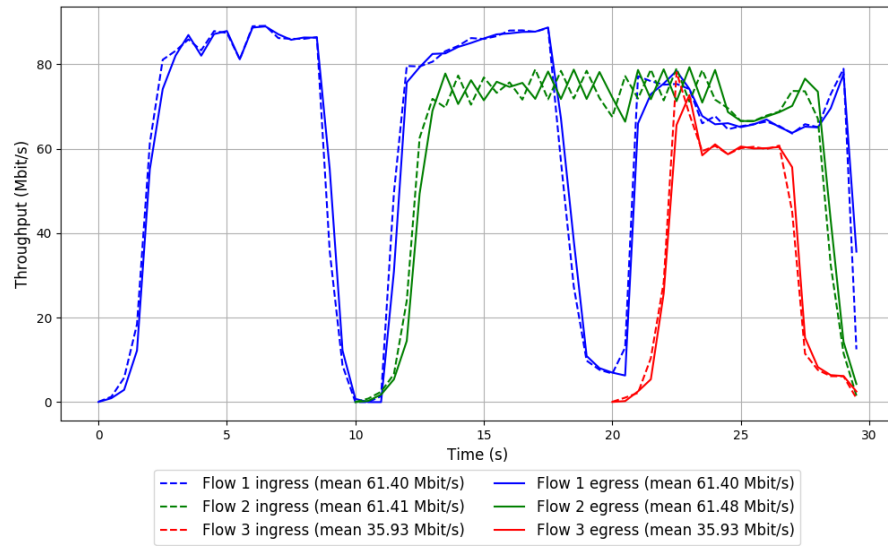
-- Flow 3:

Average throughput: 35.93 Mbit/s

95th percentile per-packet one-way delay: 137.845 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-12 21:03:22

End at: 2017-10-12 21:03:52

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.72 Mbit/s

95th percentile per-packet one-way delay: 163.179 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 68.25 Mbit/s

95th percentile per-packet one-way delay: 161.541 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 137.154 ms

Loss rate: 0.00%

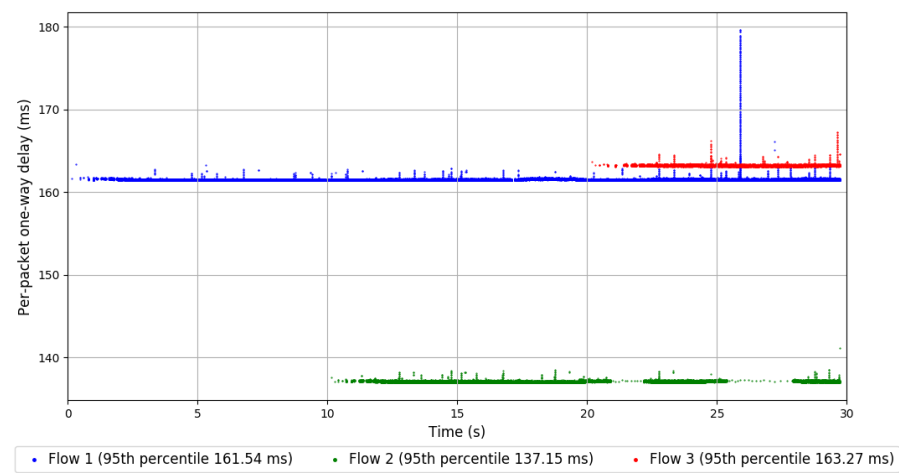
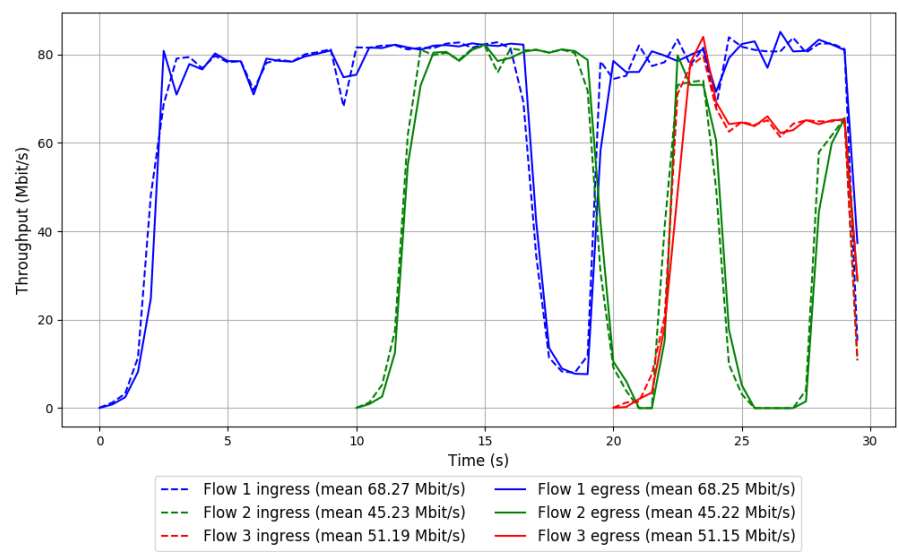
-- Flow 3:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 163.266 ms

Loss rate: 0.33%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-12 21:17:03

End at: 2017-10-12 21:17:33

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.24 Mbit/s

95th percentile per-packet one-way delay: 164.621 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 65.03 Mbit/s

95th percentile per-packet one-way delay: 163.305 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 61.64 Mbit/s

95th percentile per-packet one-way delay: 136.610 ms

Loss rate: 0.00%

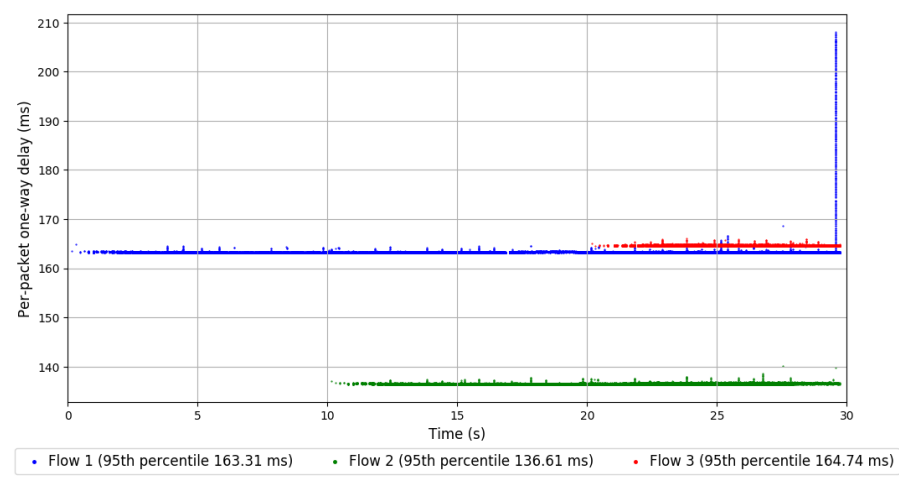
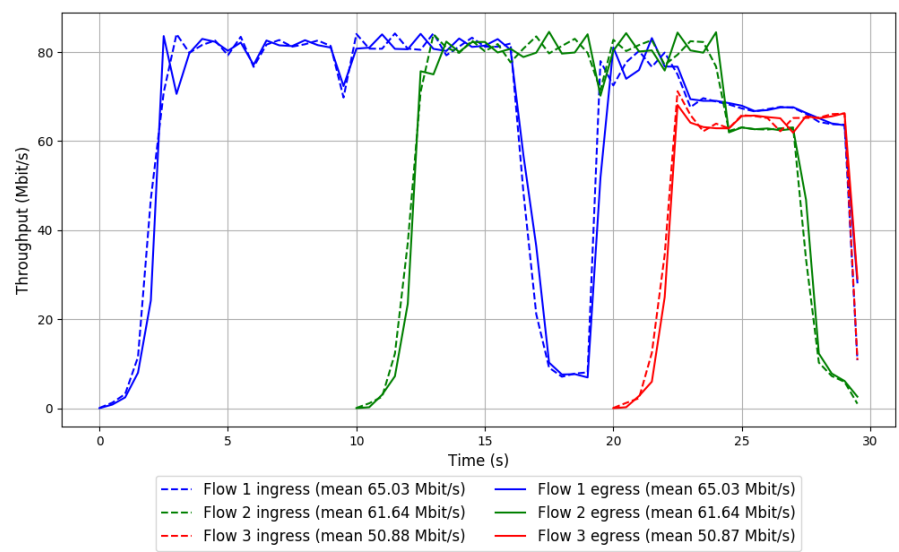
-- Flow 3:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 164.735 ms

Loss rate: 0.37%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-12 21:30:47

End at: 2017-10-12 21:31:17

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.75 Mbit/s

95th percentile per-packet one-way delay: 164.646 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 164.617 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 163.385 ms

Loss rate: 0.02%

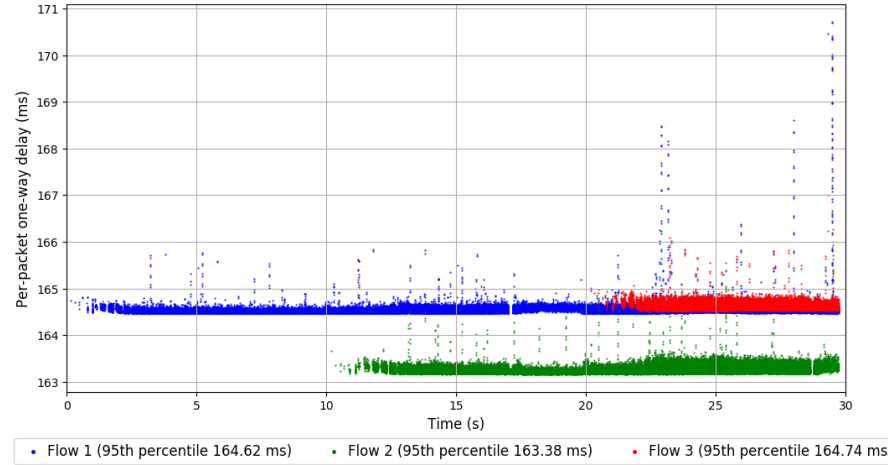
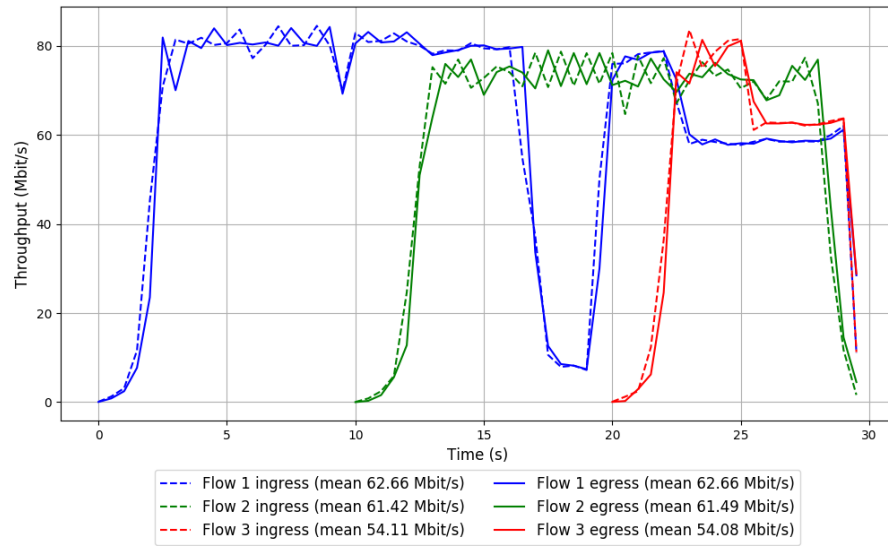
-- Flow 3:

Average throughput: 54.08 Mbit/s

95th percentile per-packet one-way delay: 164.742 ms

Loss rate: 0.34%

Run 8: Report of QUIC Cubic — Data Link

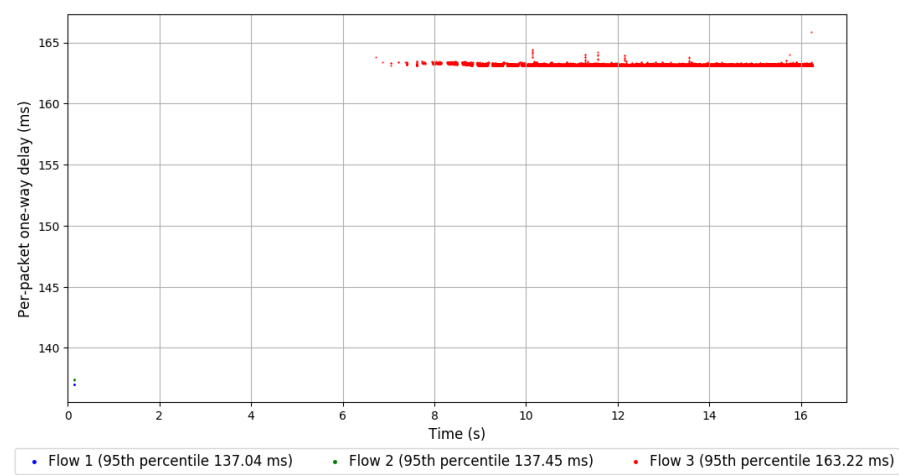
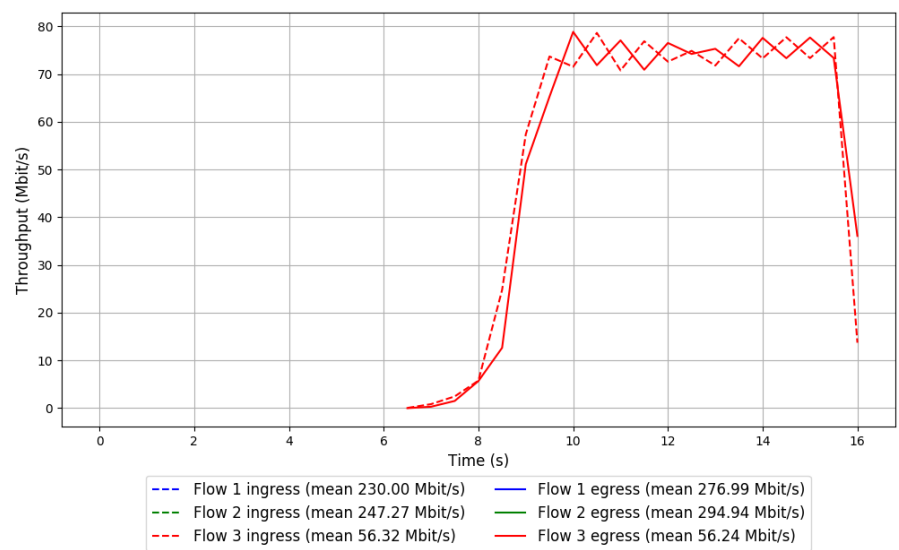


Run 9: Statistics of QUIC Cubic

Start at: 2017-10-12 21:45:26

End at: 2017-10-12 21:45:56

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-10-12 21:59:05

End at: 2017-10-12 21:59:35

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.17 Mbit/s

95th percentile per-packet one-way delay: 137.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.52 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 137.728 ms

Loss rate: 0.00%

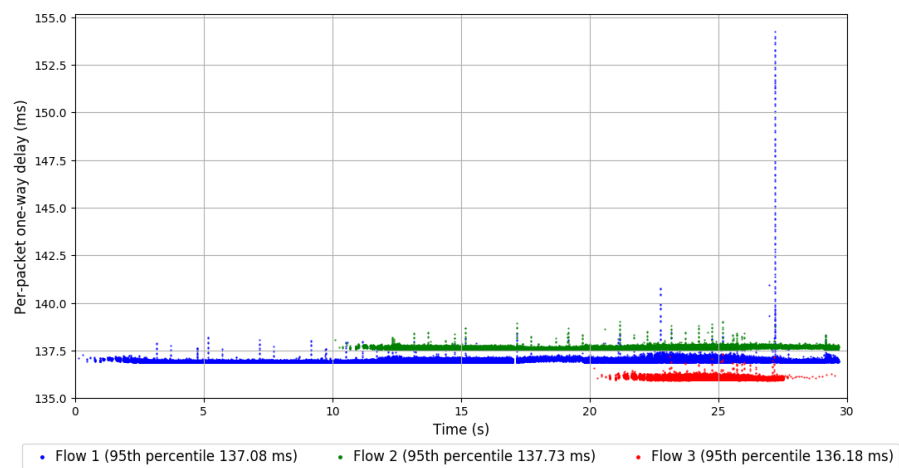
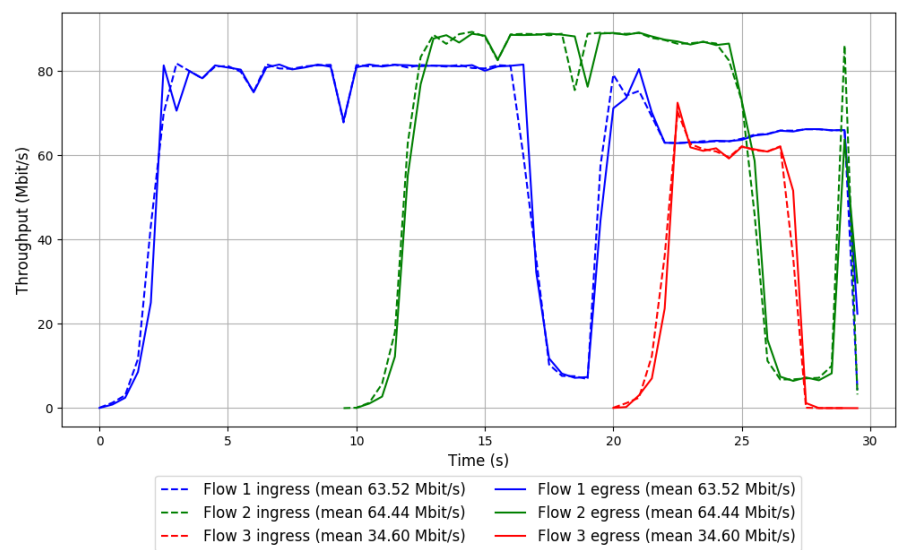
-- Flow 3:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 136.184 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

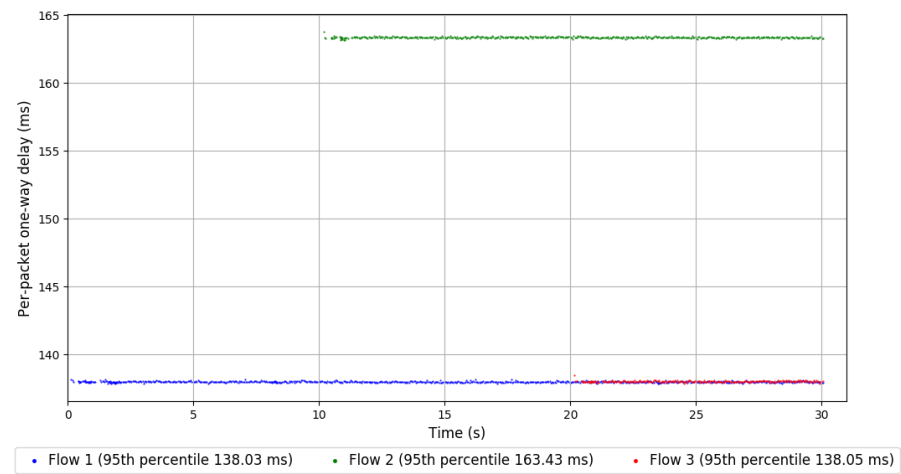
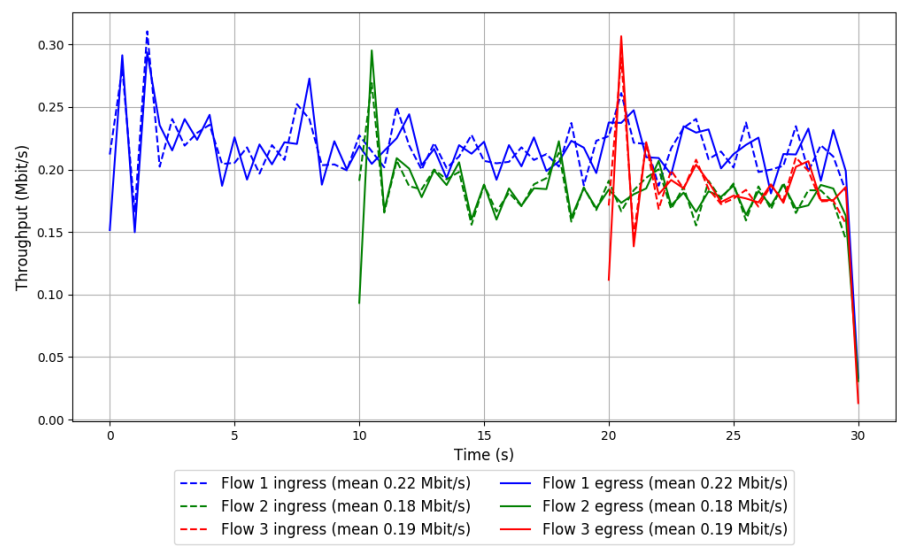


```
Run 1: Statistics of SCReAM

Start at: 2017-10-12 19:58:12
End at: 2017-10-12 19:58:42

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 163.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 138.025 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 138.050 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

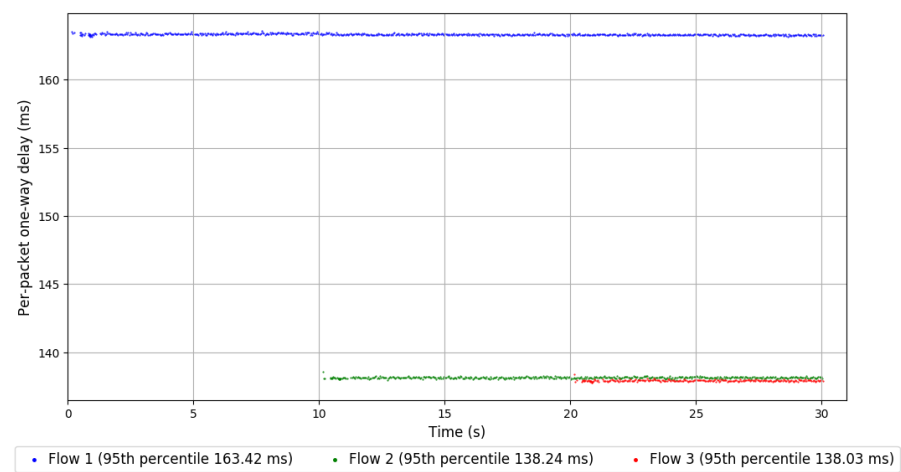
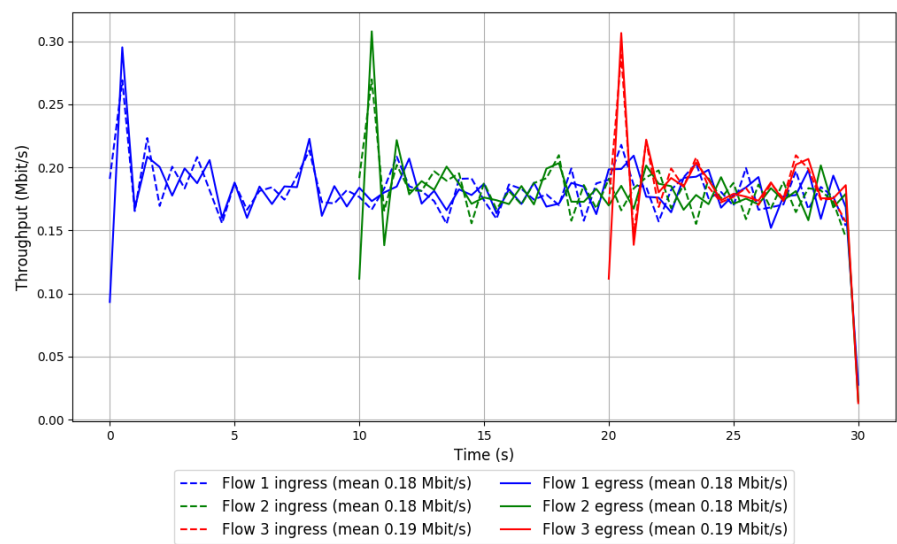


```
Run 2: Statistics of SCReAM

Start at: 2017-10-12 20:11:47
End at: 2017-10-12 20:12:17

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 163.391 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.423 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 138.237 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 138.027 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-10-12 20:24:49

End at: 2017-10-12 20:25:19

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.978 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.298 ms

Loss rate: 0.00%

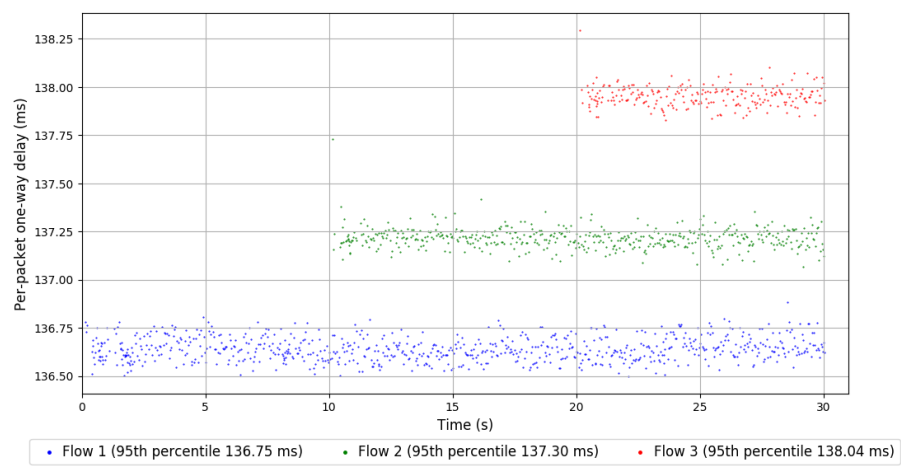
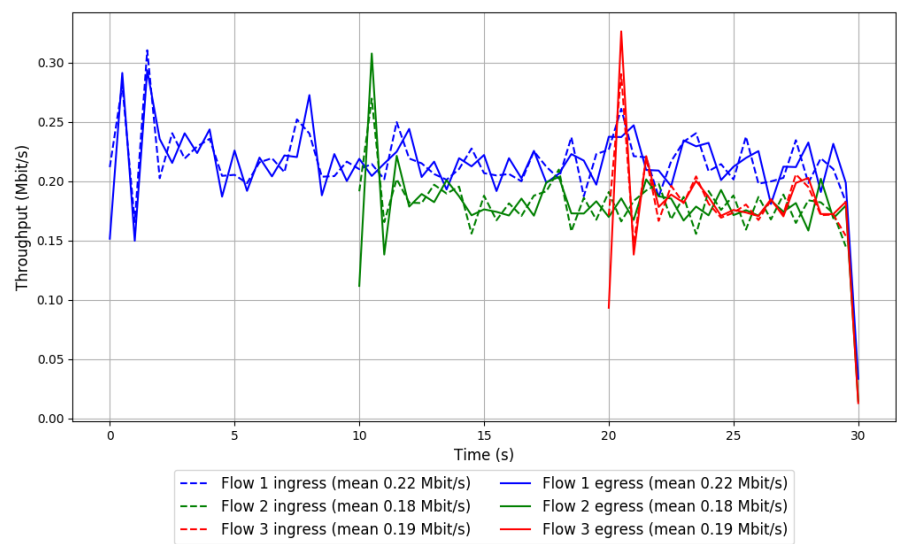
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 138.039 ms

Loss rate: 0.00%

Run 3: Report of SCSReAM — Data Link

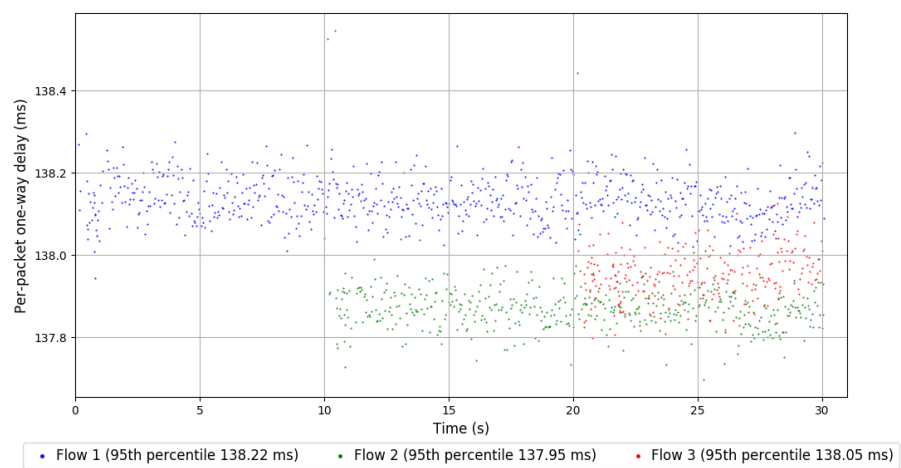
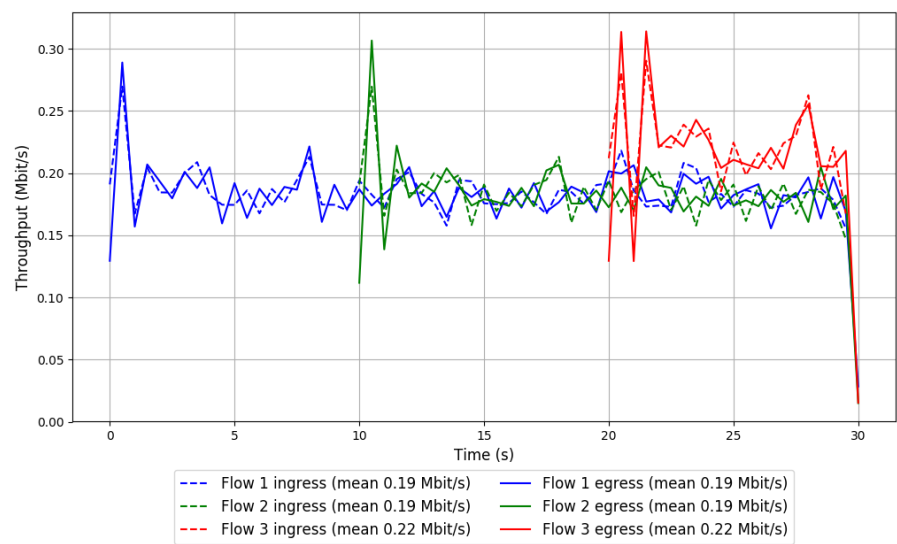


```
Run 4: Statistics of SCReAM

Start at: 2017-10-12 20:38:29
End at: 2017-10-12 20:38:59

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 138.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 138.224 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 137.946 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 138.051 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-10-12 20:51:45

End at: 2017-10-12 20:52:15

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 162.953 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.981 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 138.418 ms

Loss rate: 0.00%

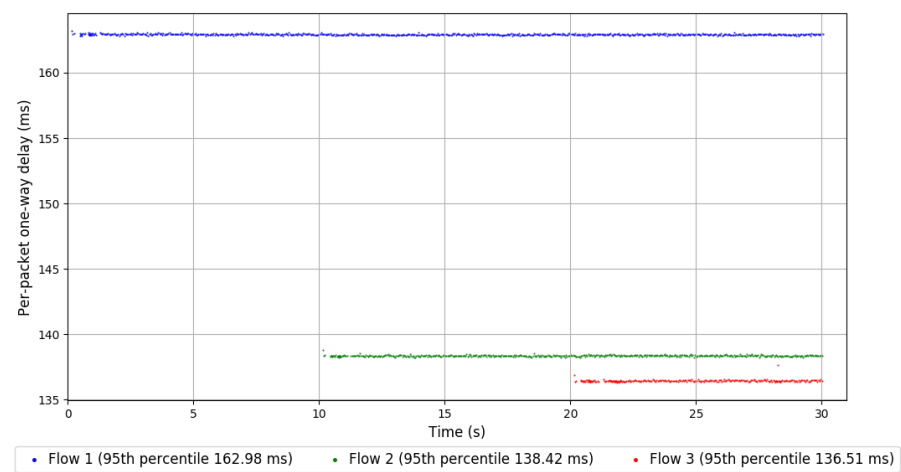
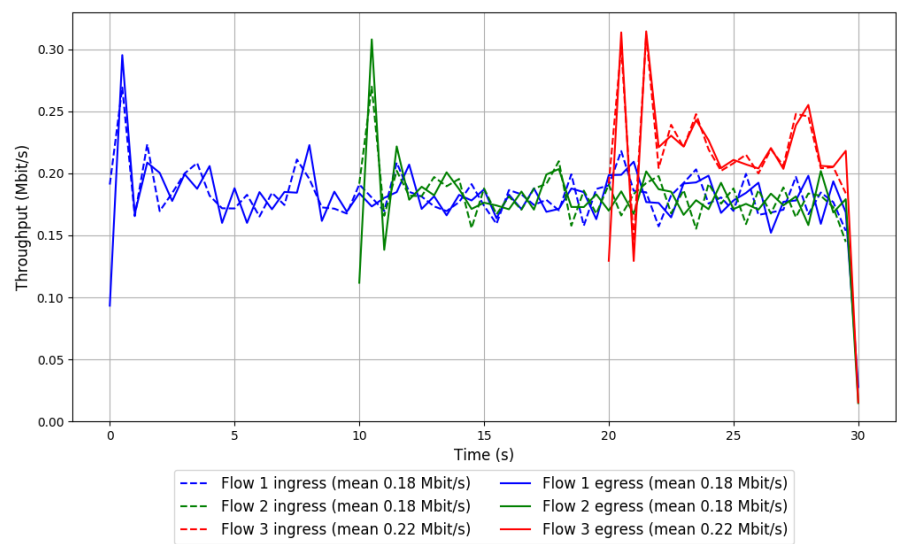
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.513 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

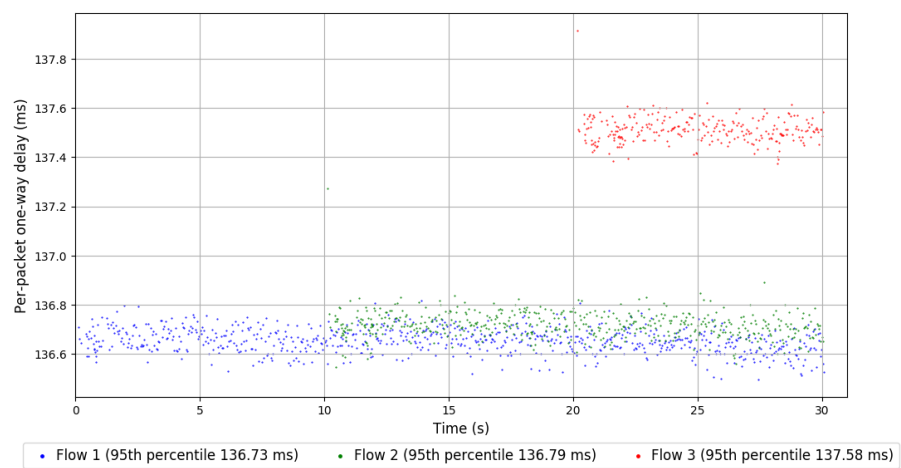
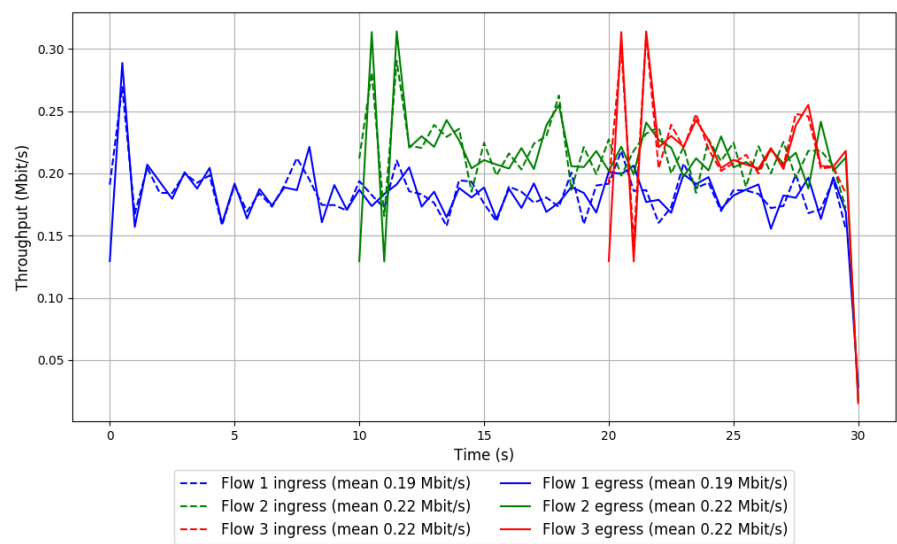


```
Run 6: Statistics of SCReAM

Start at: 2017-10-12 21:05:10
End at: 2017-10-12 21:05:40

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.795 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.584 ms
Loss rate: 0.00%
```

Run 6: Report of SCSReAM — Data Link

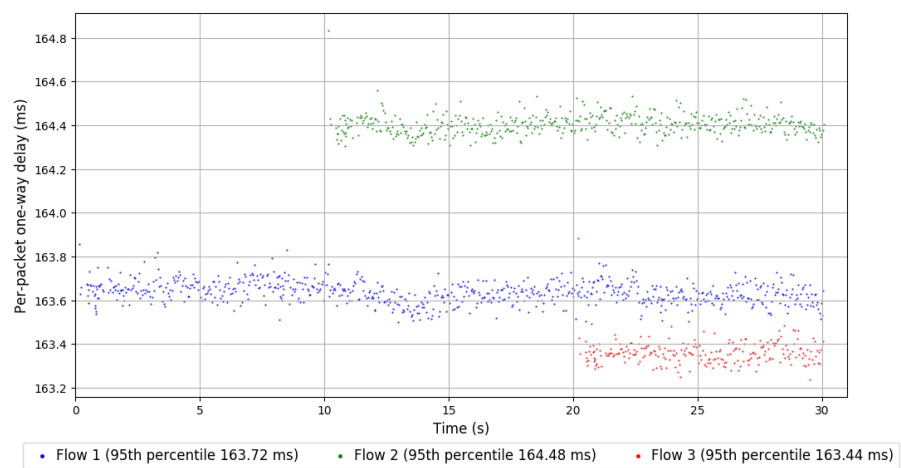
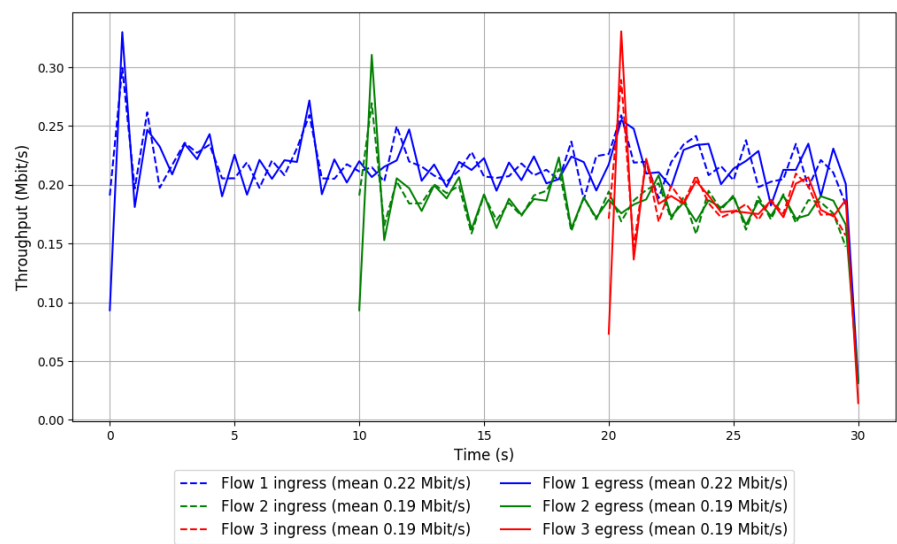


```
Run 7: Statistics of SReAM

Start at: 2017-10-12 21:18:53
End at: 2017-10-12 21:19:23

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 164.444 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 163.719 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.481 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.436 ms
Loss rate: 0.35%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-12 21:32:40

End at: 2017-10-12 21:33:10

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 164.608 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.628 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.470 ms

Loss rate: 0.00%

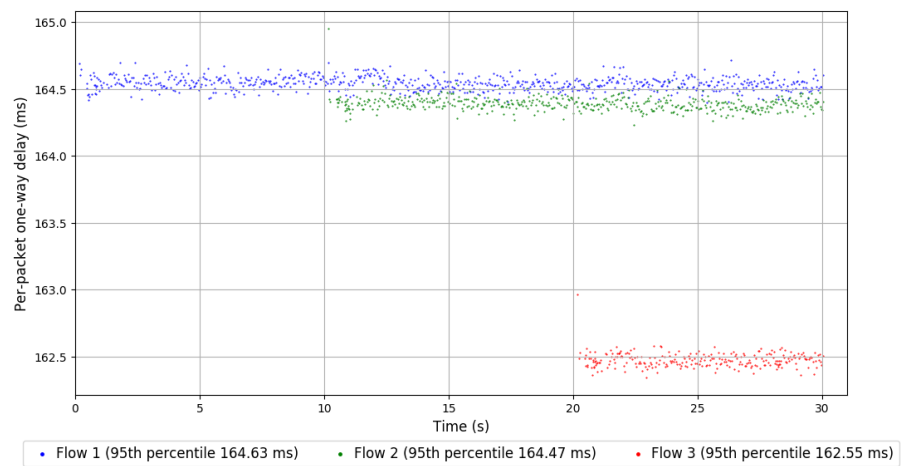
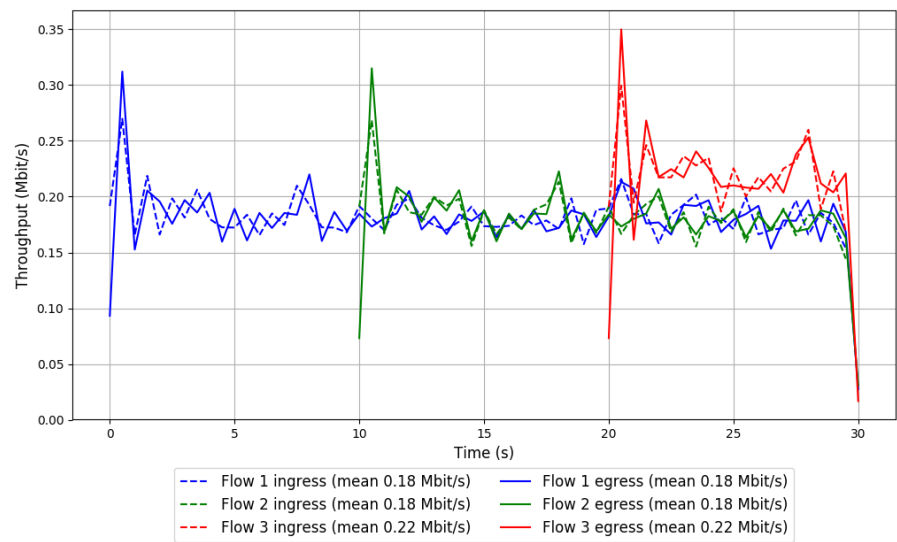
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 162.547 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-10-12 21:47:13

End at: 2017-10-12 21:47:43

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 164.816 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 164.841 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.053 ms

Loss rate: 0.00%

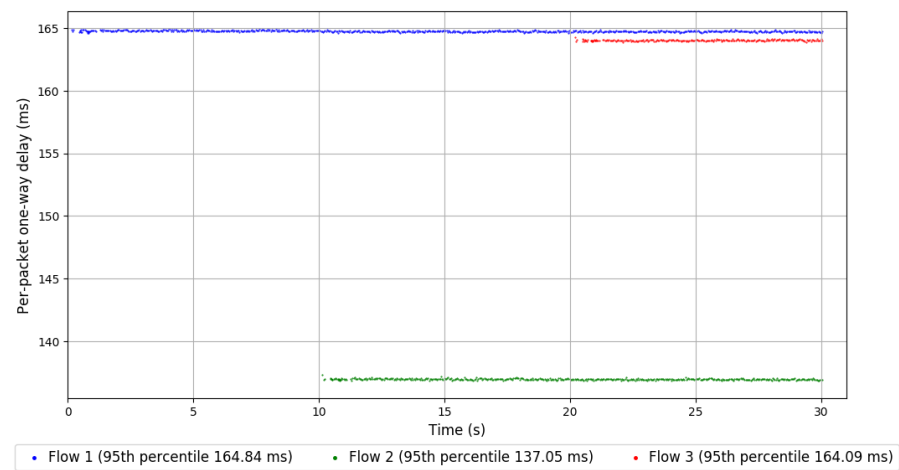
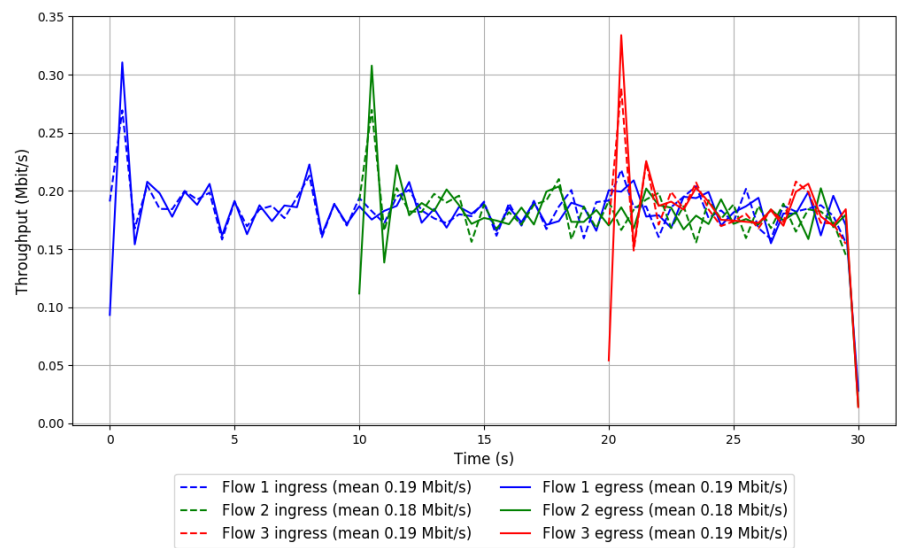
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 164.090 ms

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link

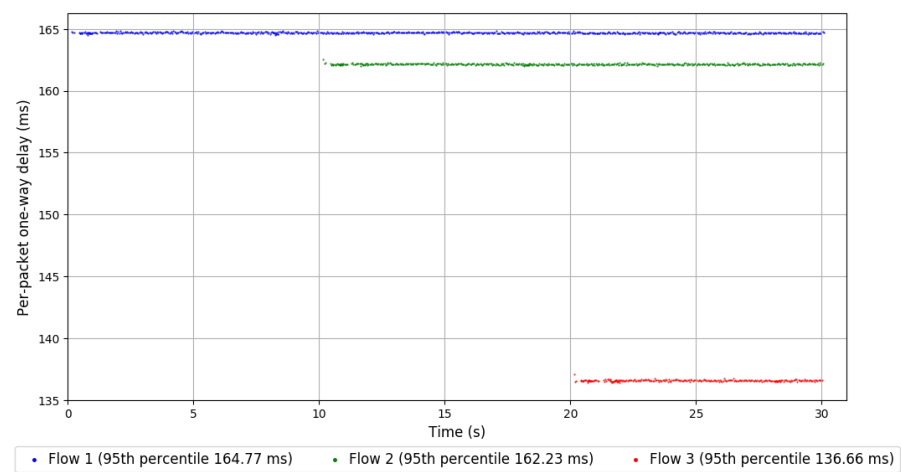
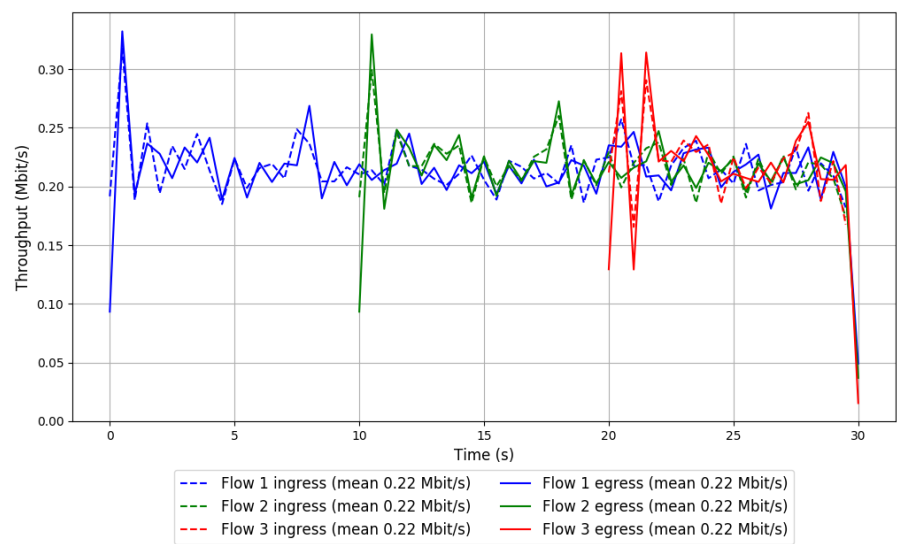


```
Run 10: Statistics of SReAM

Start at: 2017-10-12 22:00:59
End at: 2017-10-12 22:01:29

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 164.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 164.772 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.227 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.661 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

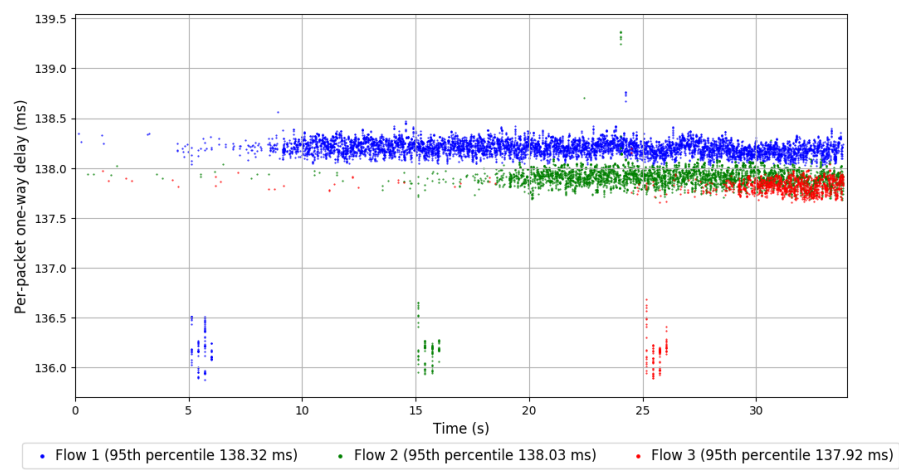
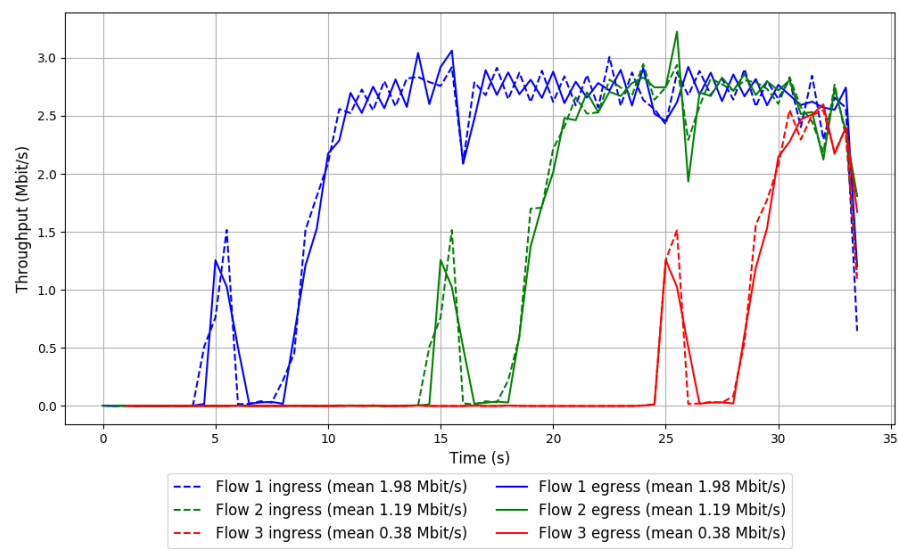


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-12 19:50:38
End at: 2017-10-12 19:51:08

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 138.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 138.318 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 138.034 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 137.923 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

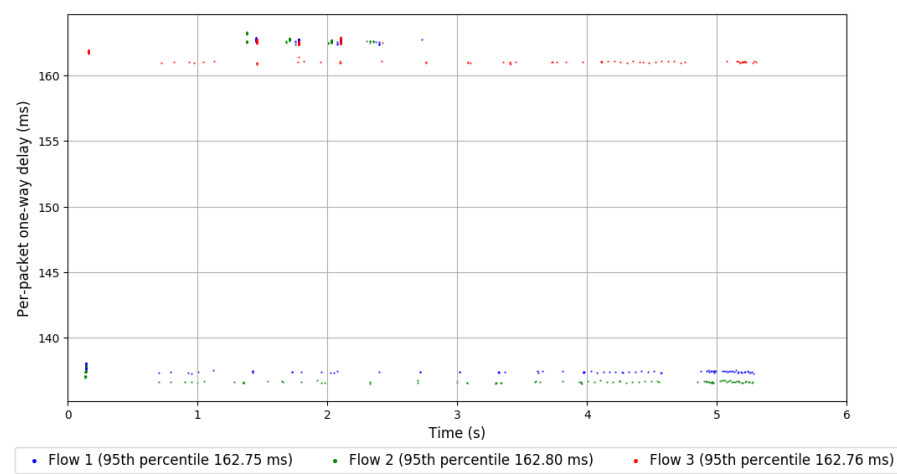
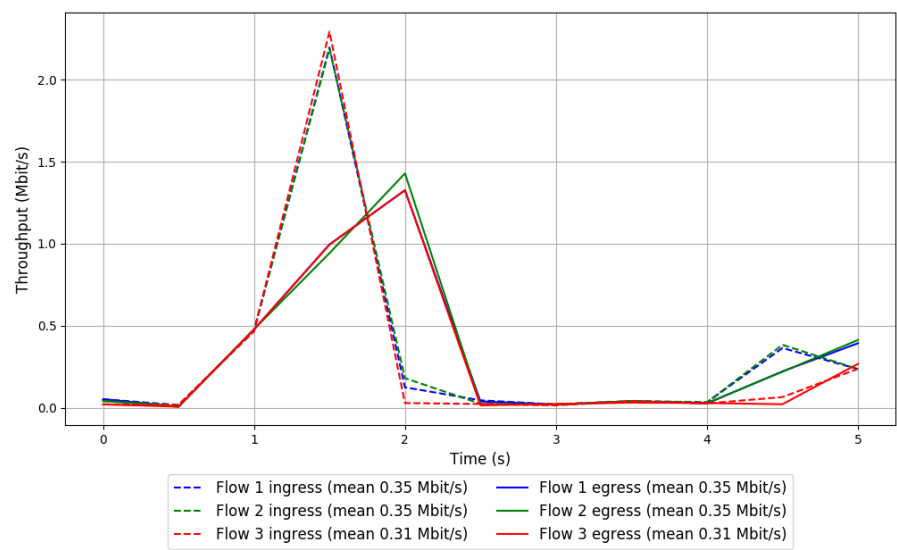


Run 2: Statistics of WebRTC media

Start at: 2017-10-12 20:04:04

End at: 2017-10-12 20:04:34

Run 2: Report of WebRTC media — Data Link

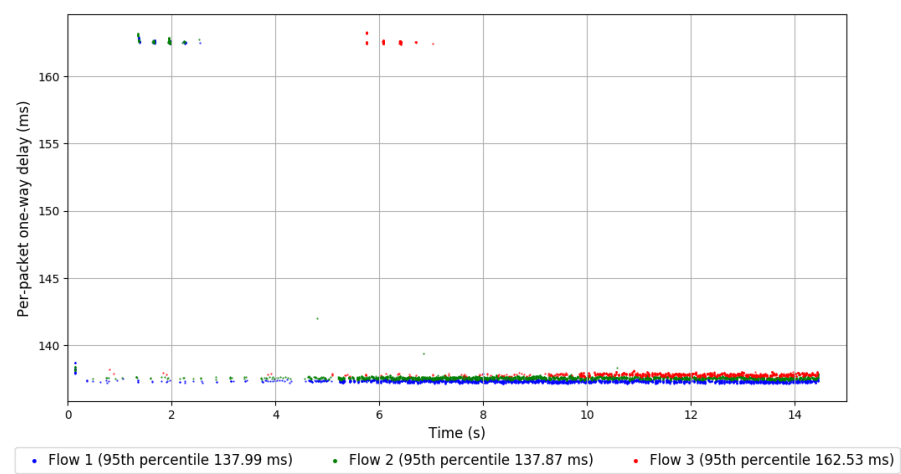
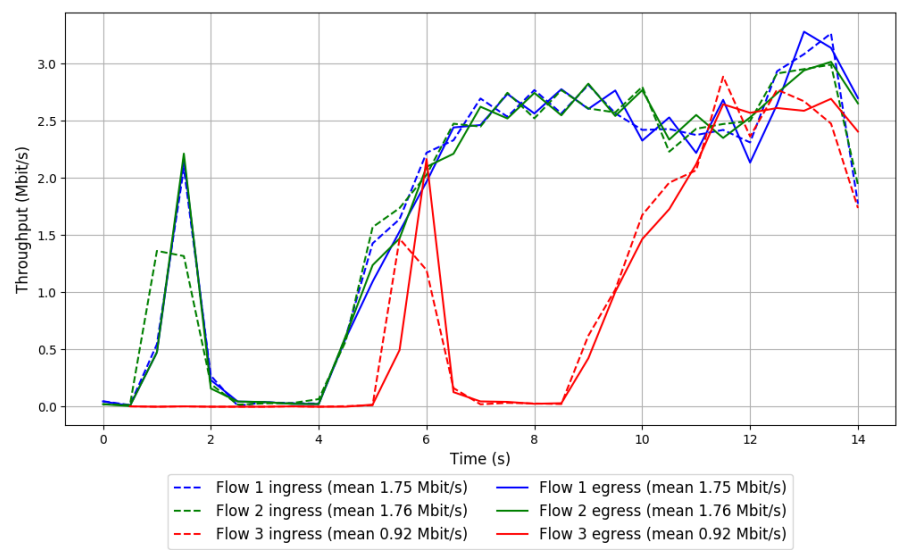


Run 3: Statistics of WebRTC media

Start at: 2017-10-12 20:17:36

End at: 2017-10-12 20:18:06

Run 3: Report of WebRTC media — Data Link

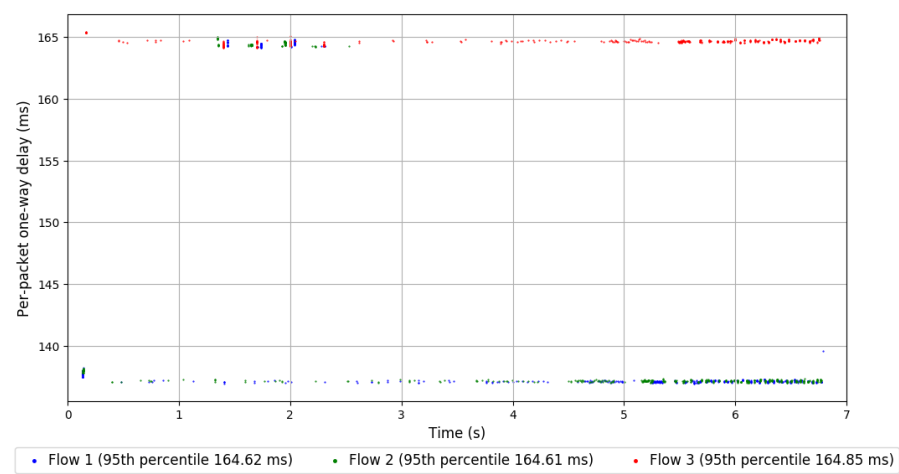
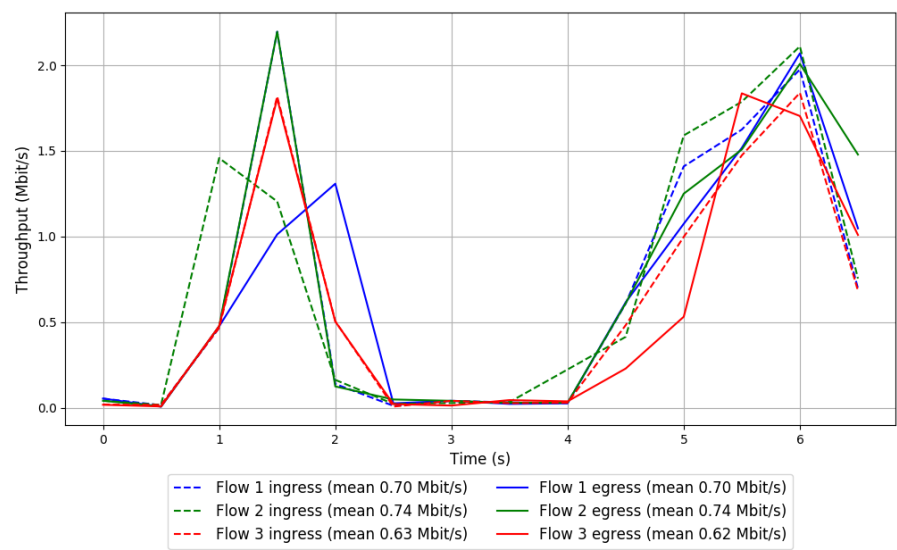


Run 4: Statistics of WebRTC media

Start at: 2017-10-12 20:30:41

End at: 2017-10-12 20:31:11

Run 4: Report of WebRTC media — Data Link

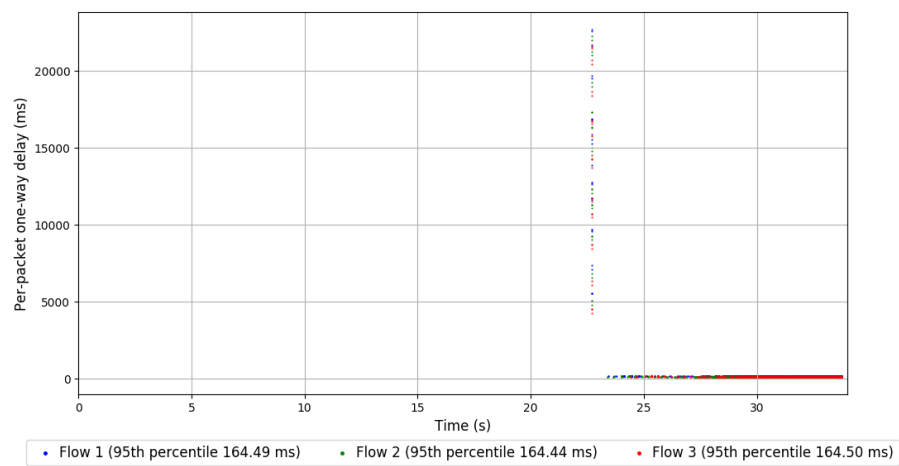
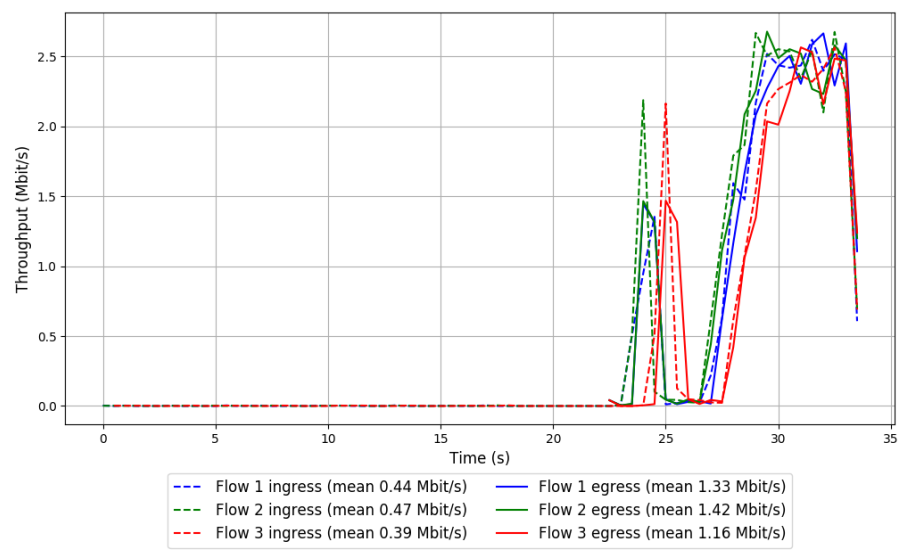


Run 5: Statistics of WebRTC media

Start at: 2017-10-12 20:44:05

End at: 2017-10-12 20:44:35

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-12 20:57:45

End at: 2017-10-12 20:58:15

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 137.347 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 136.764 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 136.798 ms

Loss rate: 0.00%

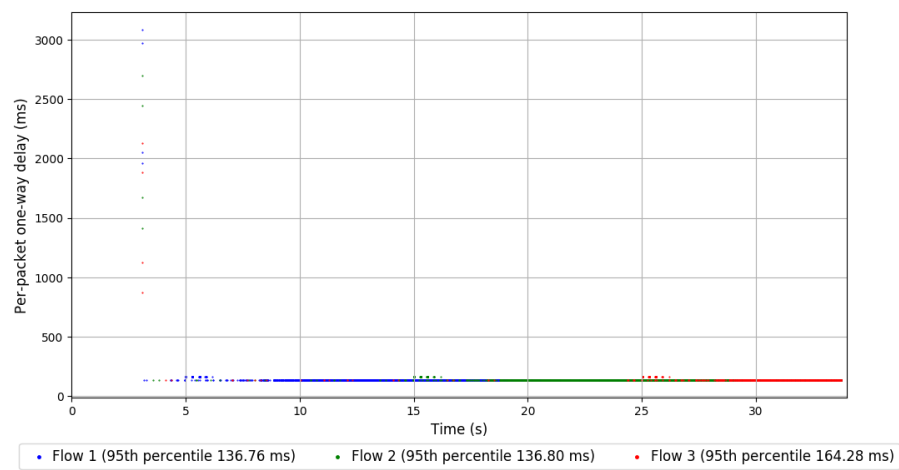
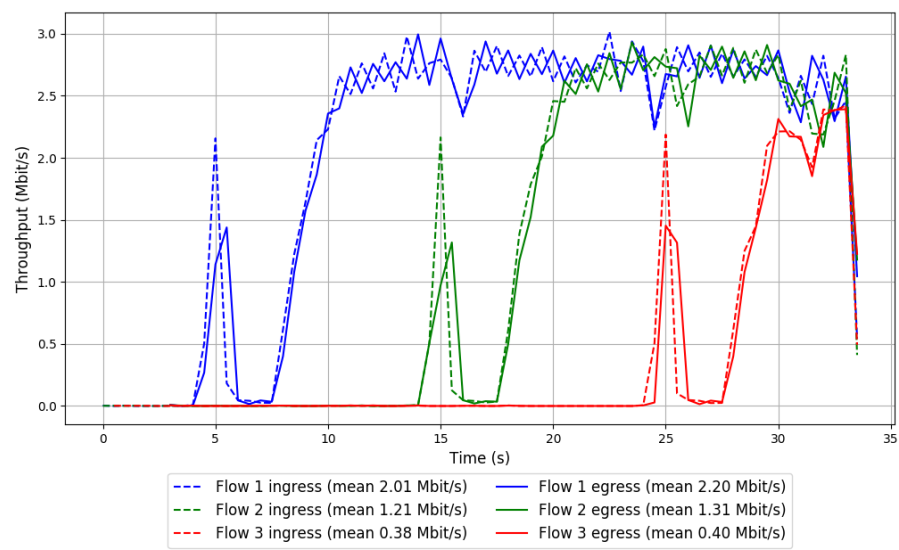
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 164.285 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-12 21:11:15

End at: 2017-10-12 21:11:45

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 163.452 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 162.719 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 138.150 ms

Loss rate: 0.00%

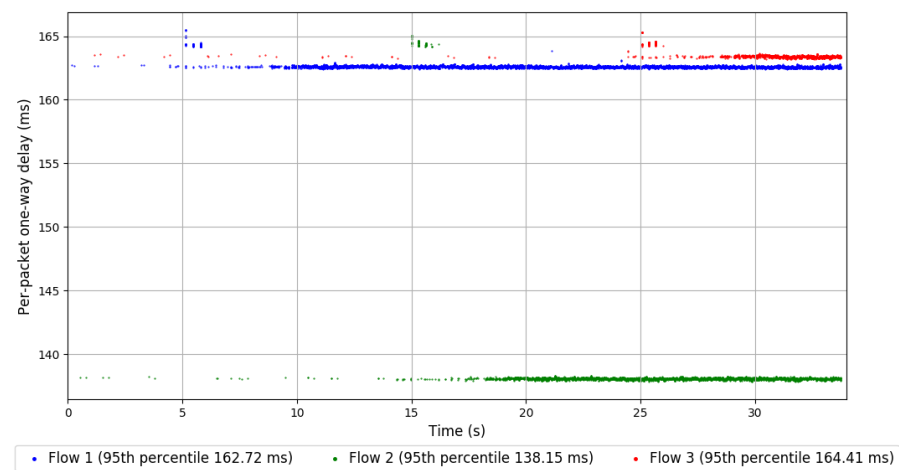
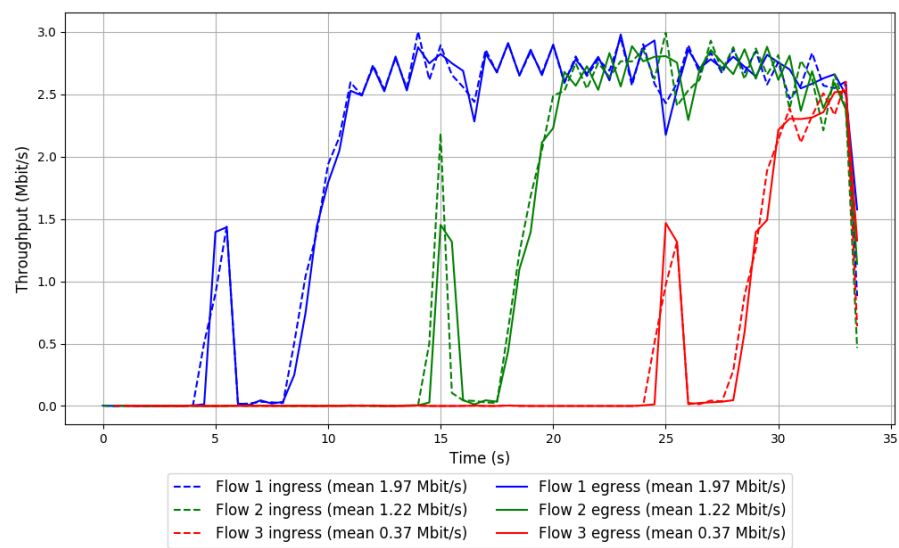
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 164.406 ms

Loss rate: 0.01%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-12 21:24:58

End at: 2017-10-12 21:25:28

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 164.041 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 164.048 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 161.268 ms

Loss rate: 0.00%

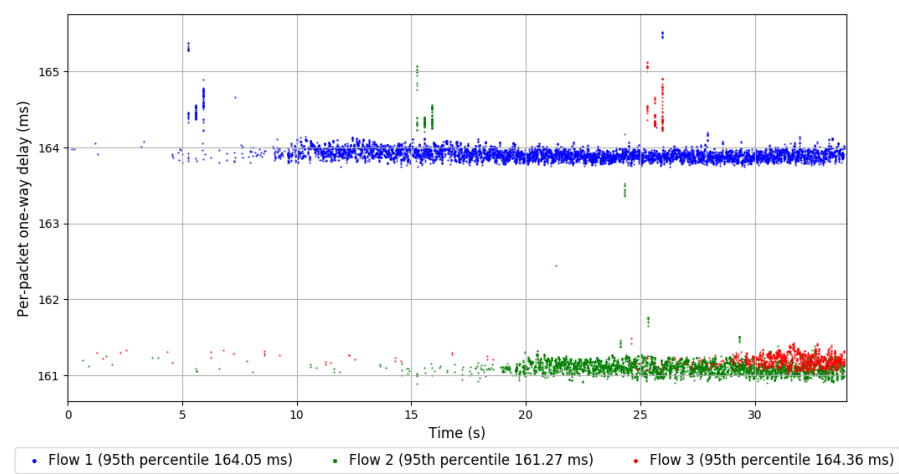
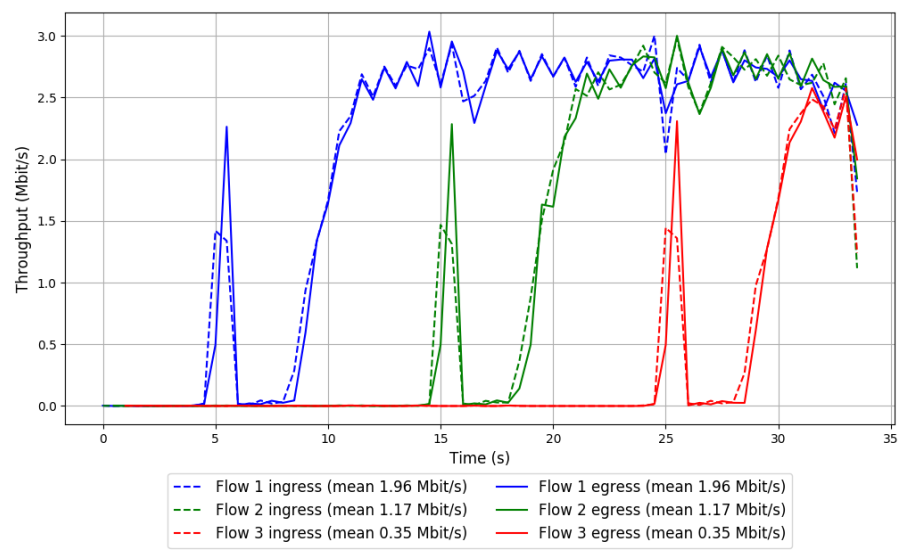
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 164.362 ms

Loss rate: 0.59%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-12 21:38:56

End at: 2017-10-12 21:39:26

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 164.361 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 162.974 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 162.428 ms

Loss rate: 0.39%

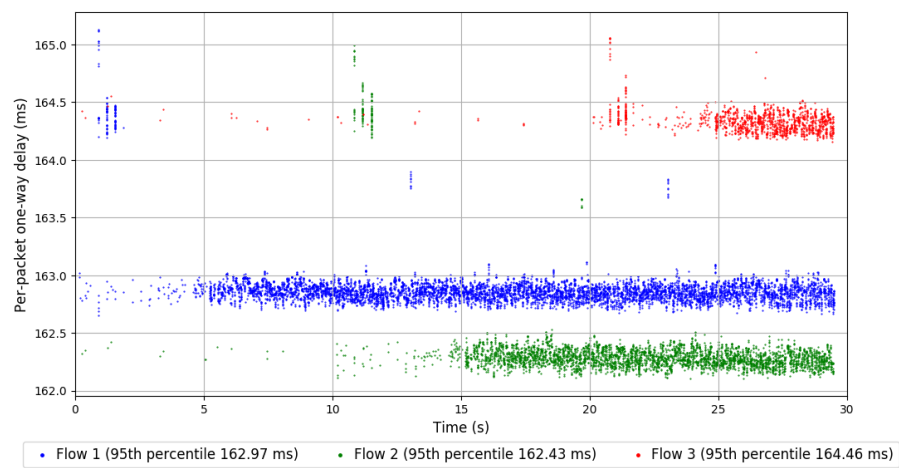
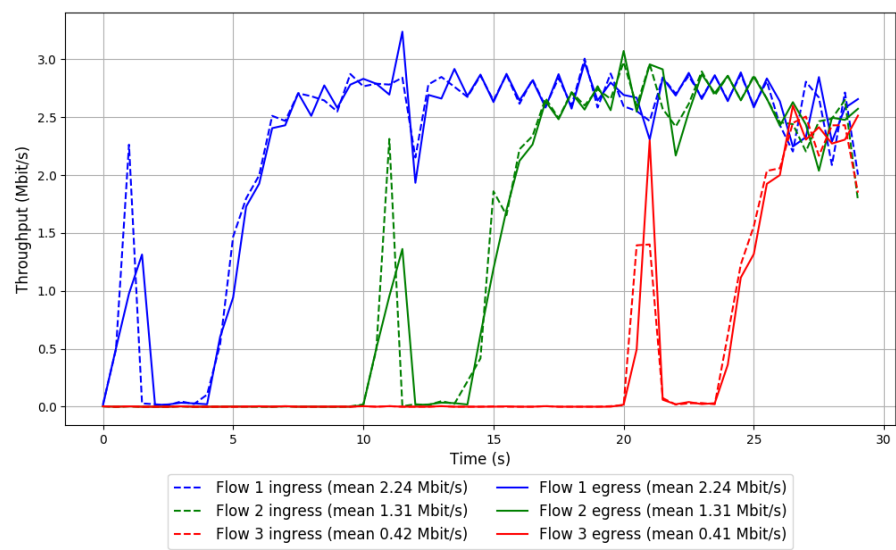
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 164.462 ms

Loss rate: 0.82%

Run 9: Report of WebRTC media — Data Link

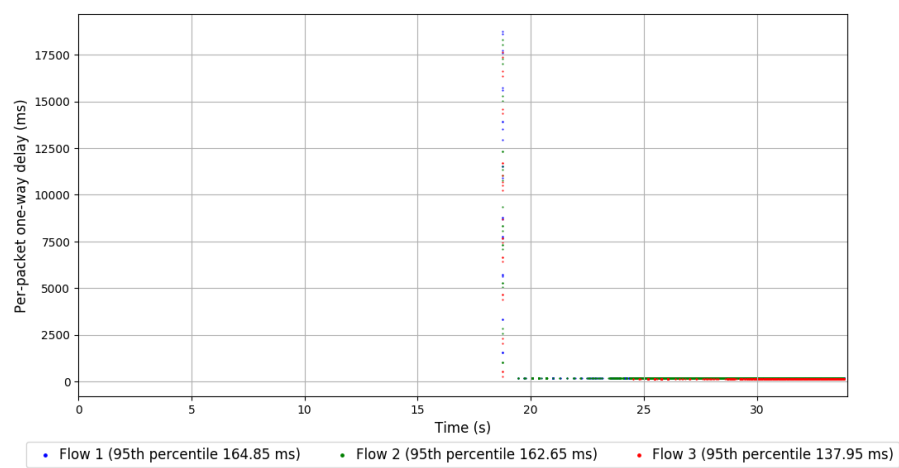
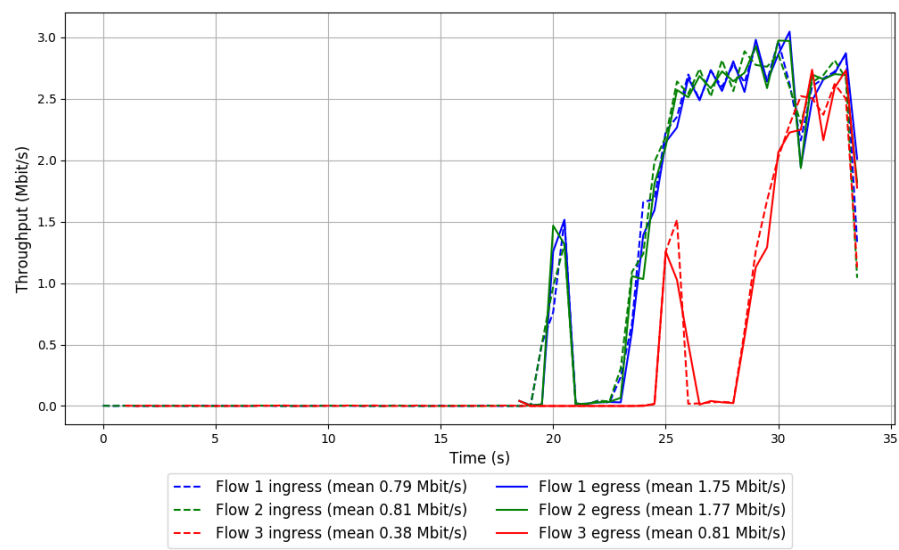


Run 10: Statistics of WebRTC media

Start at: 2017-10-12 21:52:58

End at: 2017-10-12 21:53:28

Run 10: Report of WebRTC media — Data Link

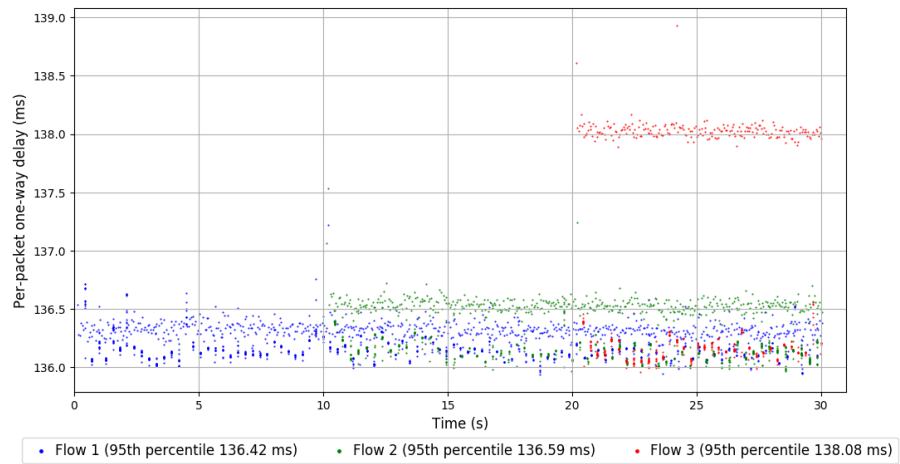
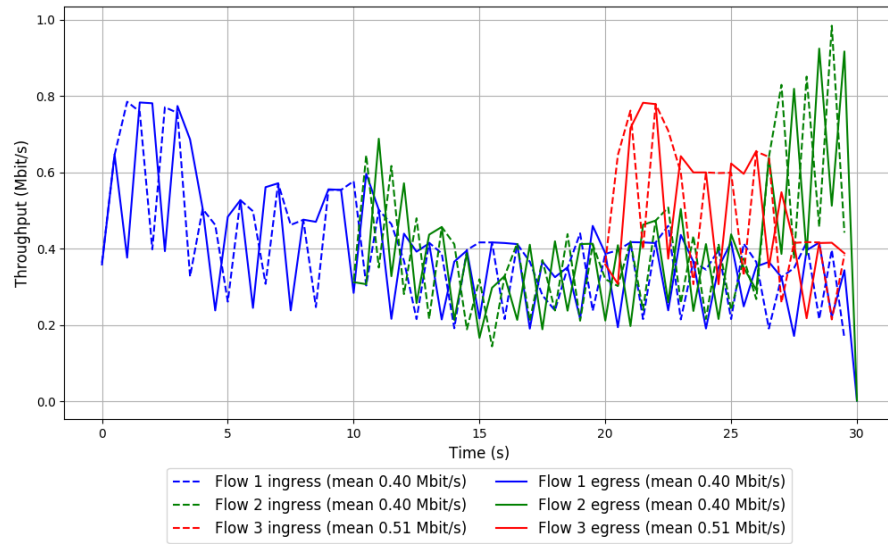


```
Run 1: Statistics of Sprout

Start at: 2017-10-12 19:51:29
End at: 2017-10-12 19:51:59

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 137.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.422 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.592 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 138.076 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-12 20:04:54

End at: 2017-10-12 20:05:24

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 162.793 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 162.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 162.668 ms

Loss rate: 0.00%

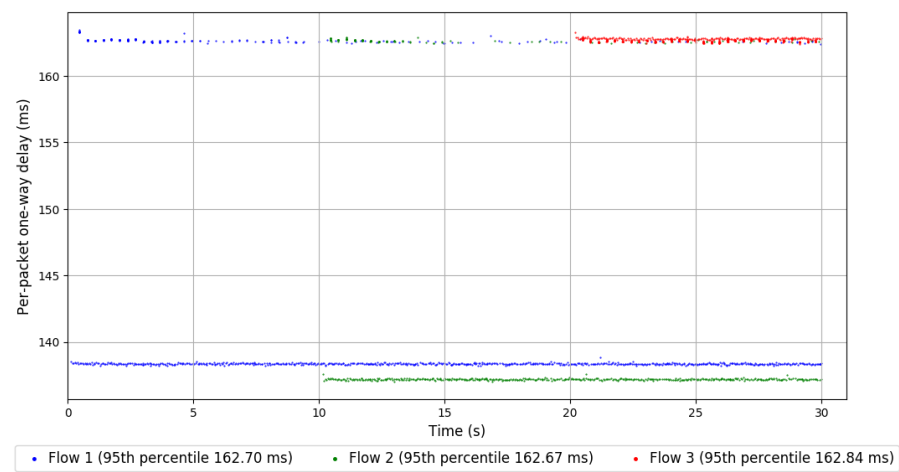
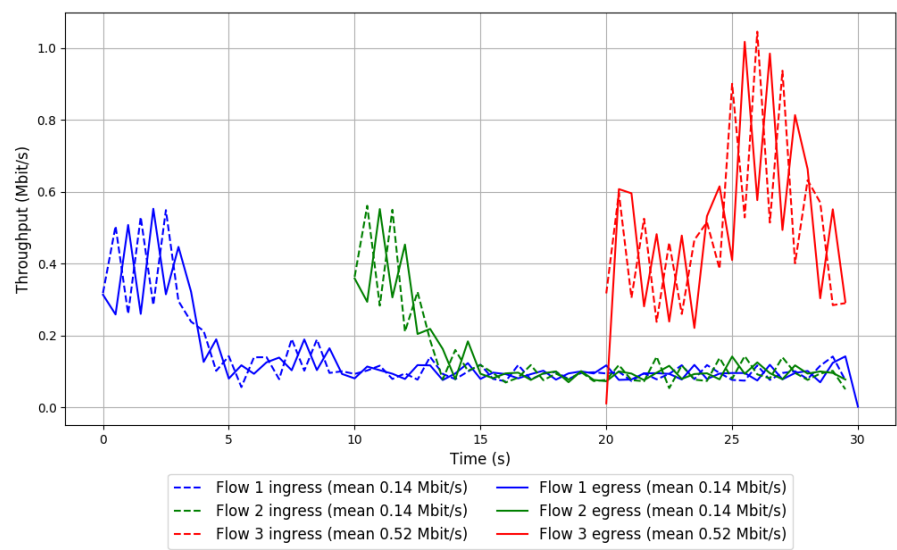
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 162.837 ms

Loss rate: 0.02%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-12 20:18:27

End at: 2017-10-12 20:18:57

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 163.255 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 162.664 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 162.639 ms

Loss rate: 0.00%

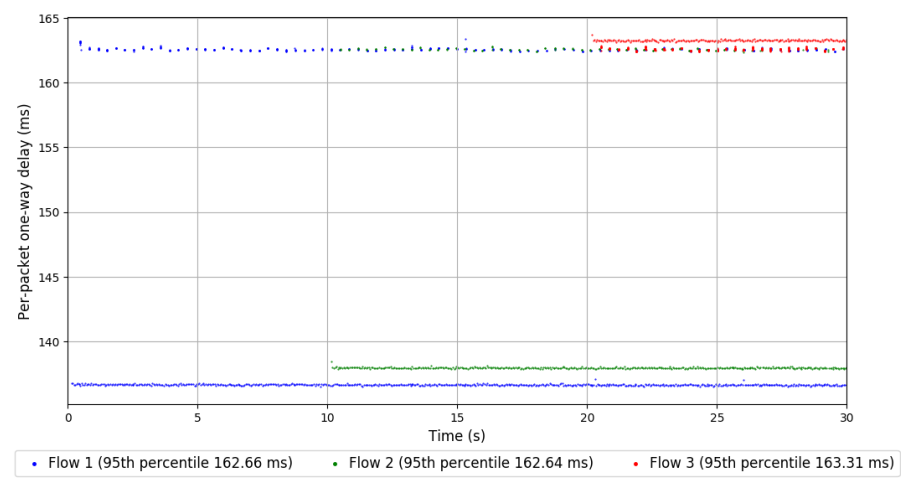
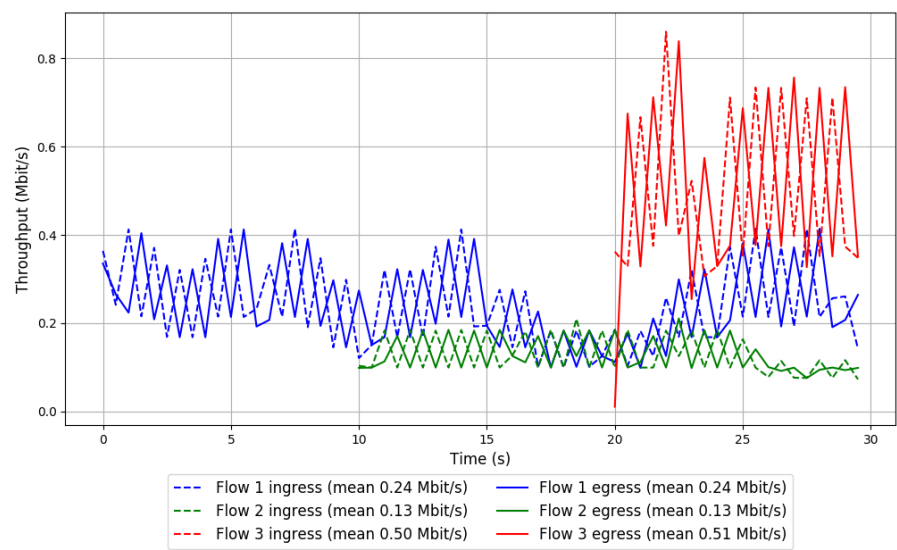
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 163.314 ms

Loss rate: 0.02%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-12 20:31:31

End at: 2017-10-12 20:32:01

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 164.532 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 164.543 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 164.487 ms

Loss rate: 0.00%

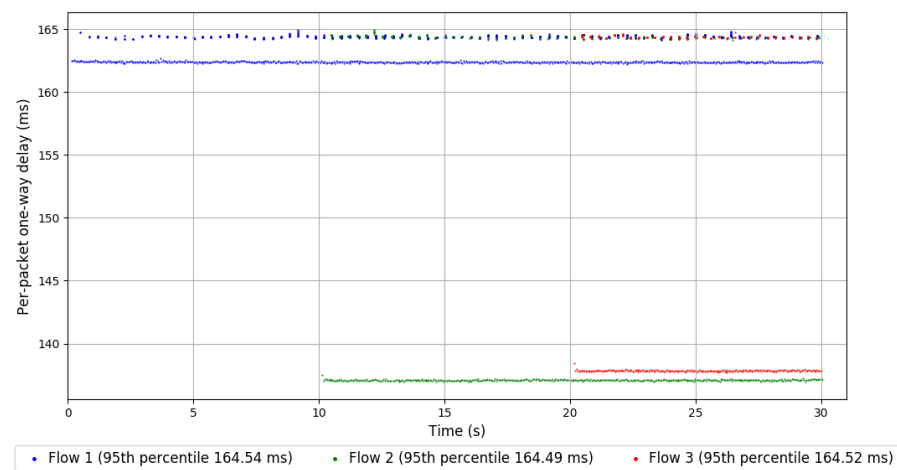
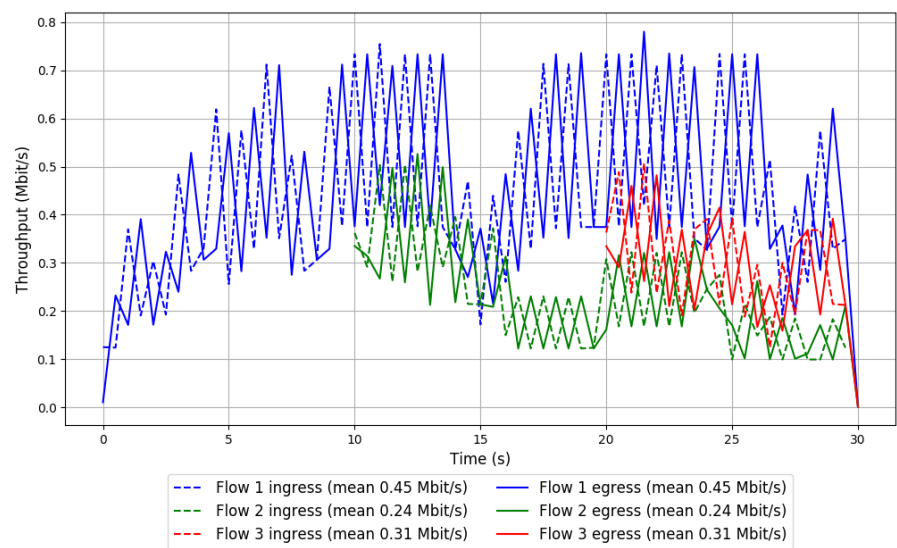
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 164.520 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-12 20:44:55

End at: 2017-10-12 20:45:25

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 164.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 164.555 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 164.538 ms

Loss rate: 0.00%

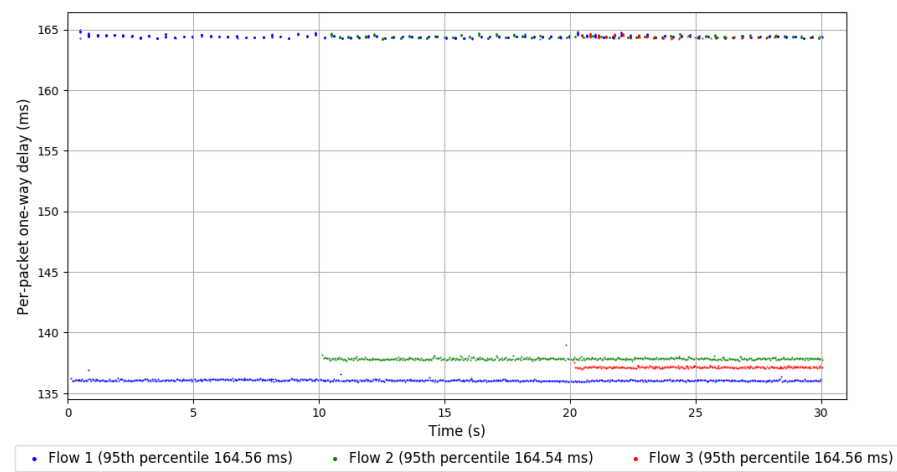
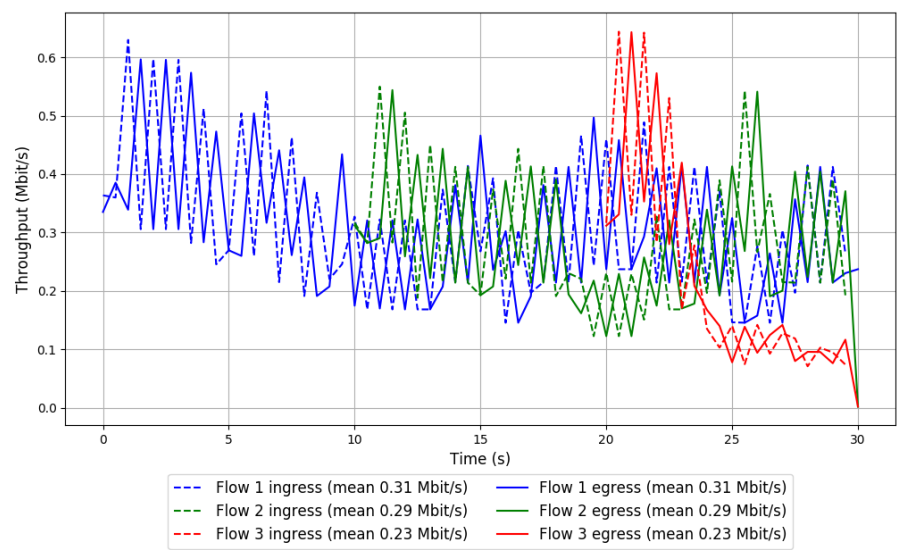
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 164.561 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-12 20:58:36

End at: 2017-10-12 20:59:06

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 164.580 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 164.580 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 164.596 ms

Loss rate: 0.01%

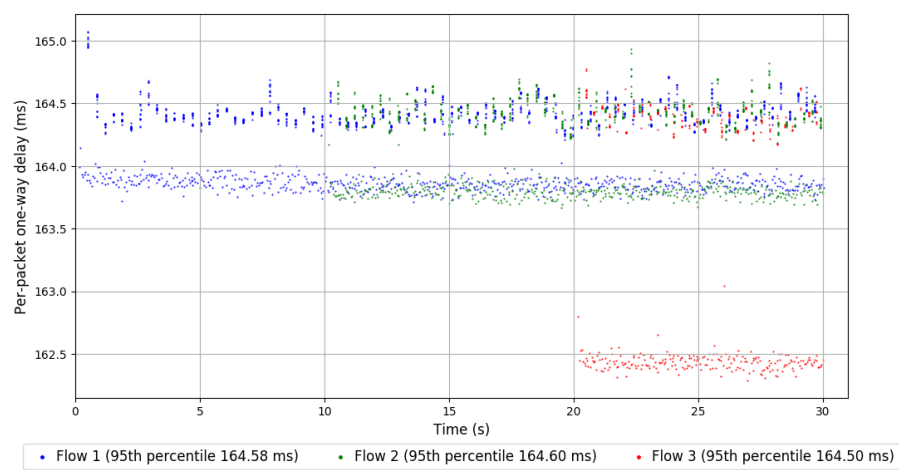
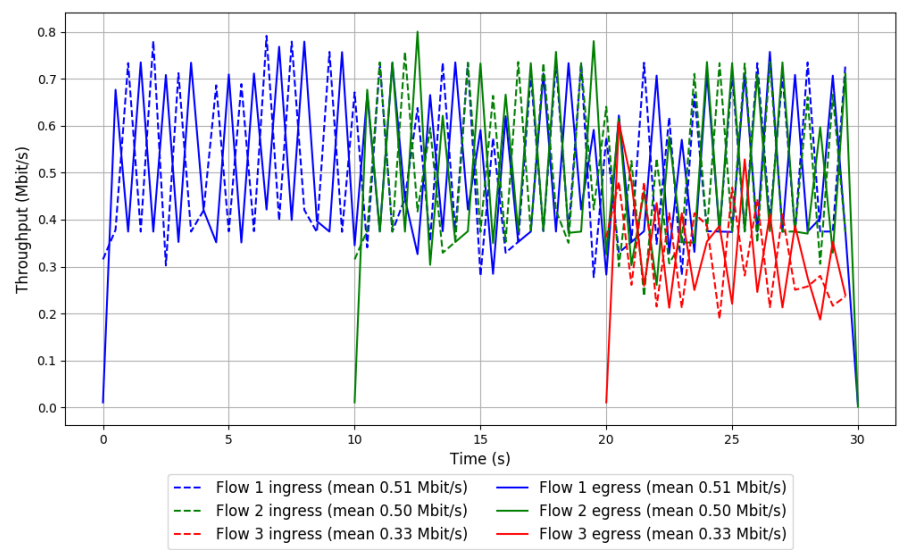
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 164.497 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-12 21:12:05

End at: 2017-10-12 21:12:35

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 164.532 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 164.549 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 164.506 ms

Loss rate: 0.01%

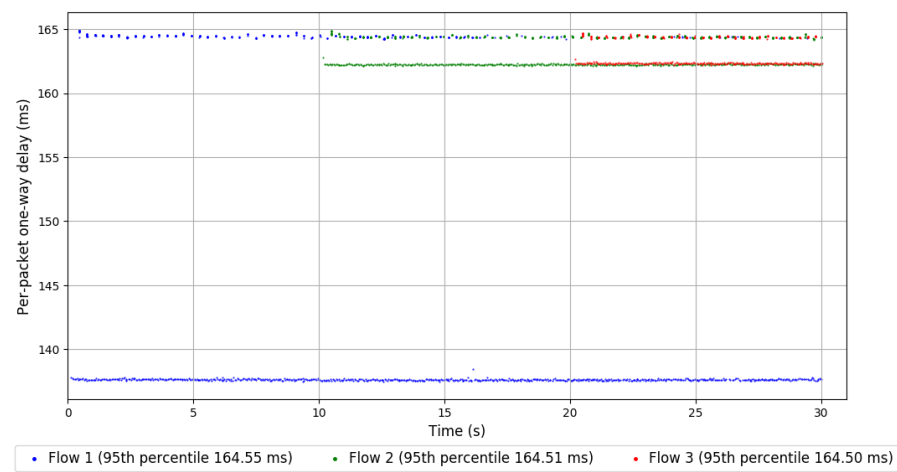
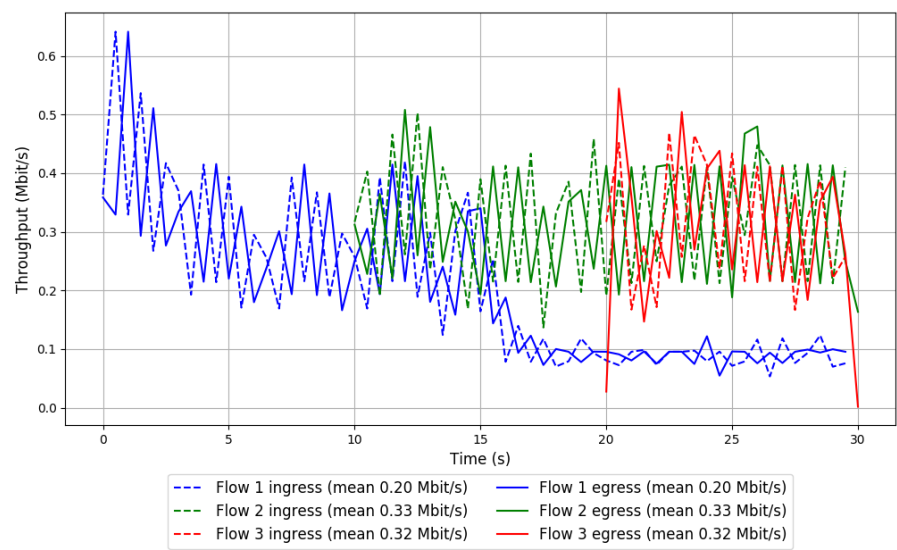
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 164.495 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-12 21:25:48

End at: 2017-10-12 21:26:18

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 164.640 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 164.661 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 164.585 ms

Loss rate: 0.01%

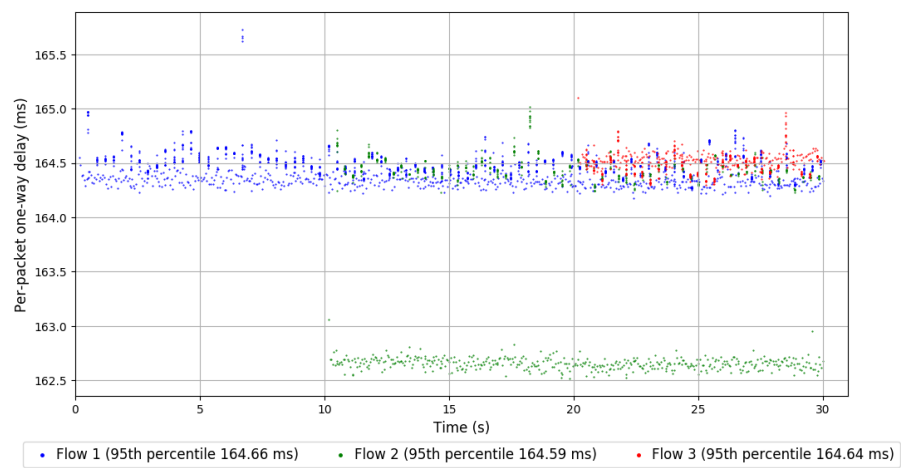
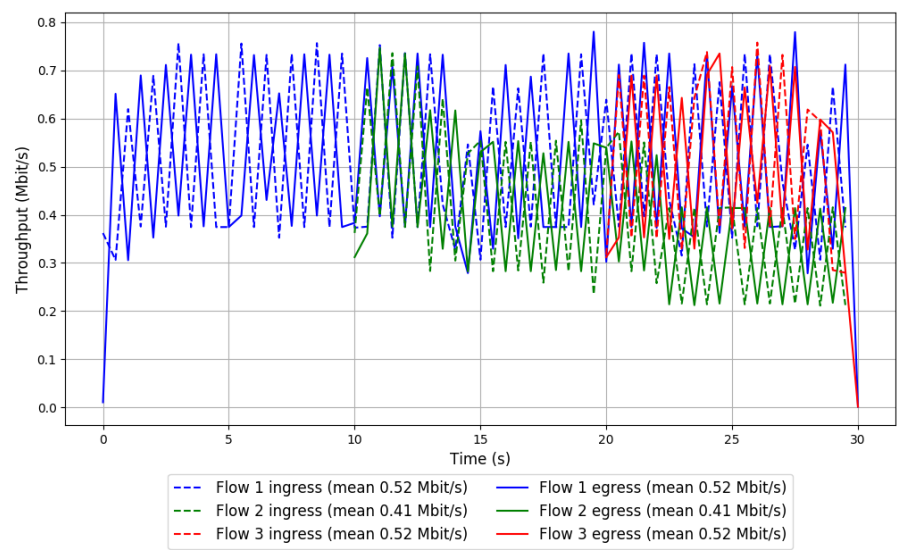
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 164.637 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-12 21:39:47

End at: 2017-10-12 21:40:17

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 164.568 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 164.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 164.556 ms

Loss rate: 0.00%

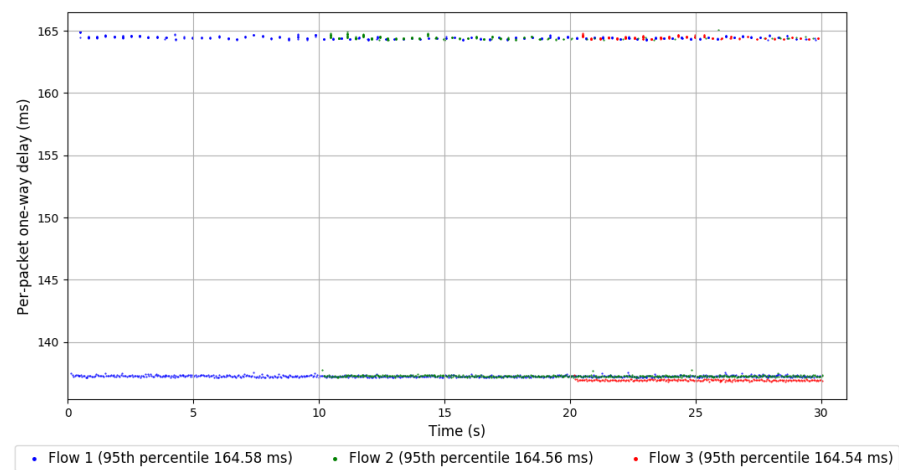
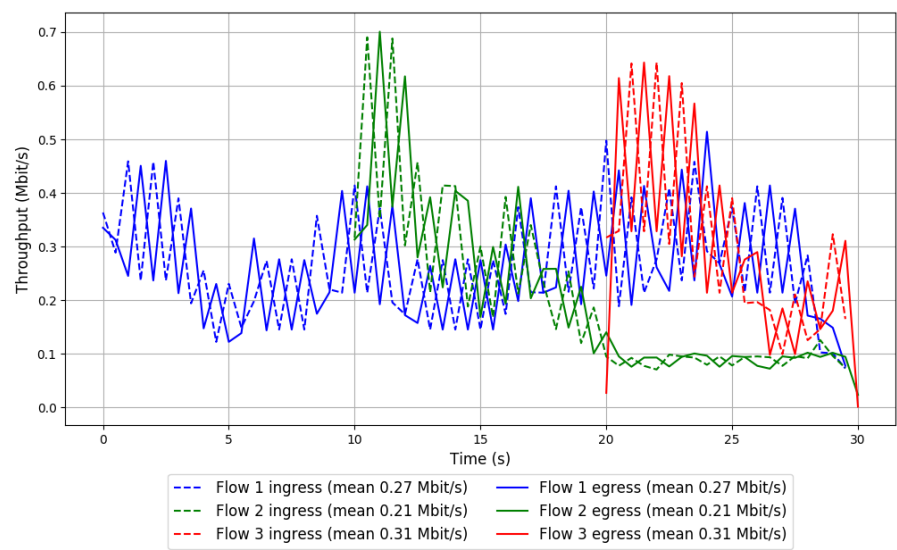
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 164.542 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-12 21:53:48

End at: 2017-10-12 21:54:18

Below is generated by plot.py at 2017-10-12 22:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 164.666 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 137.786 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 164.685 ms

Loss rate: 0.01%

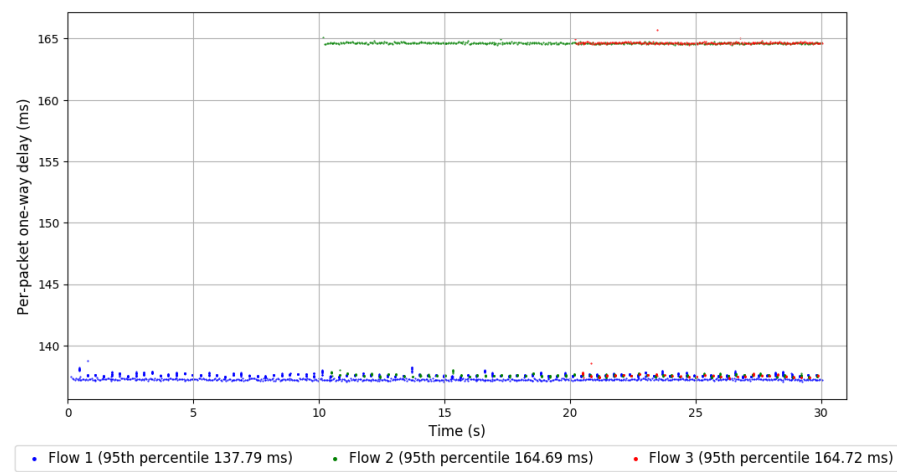
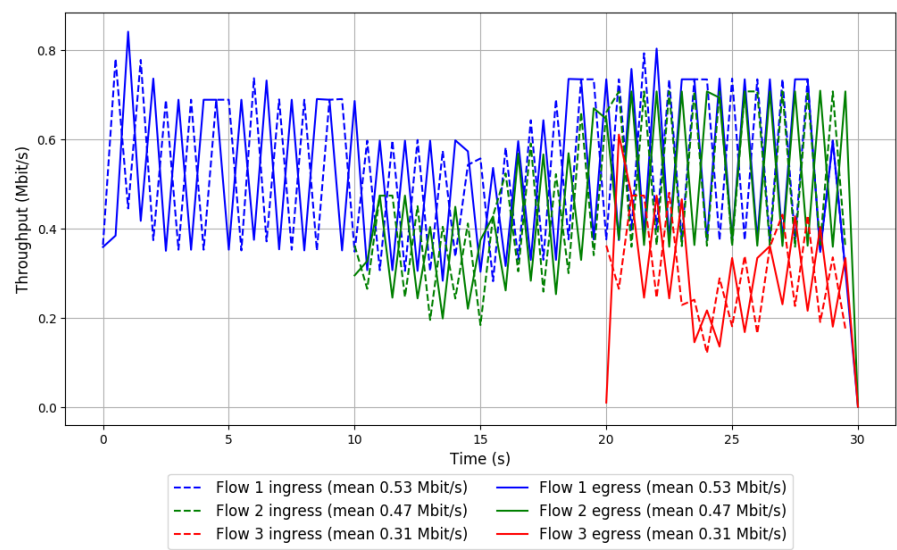
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 164.715 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

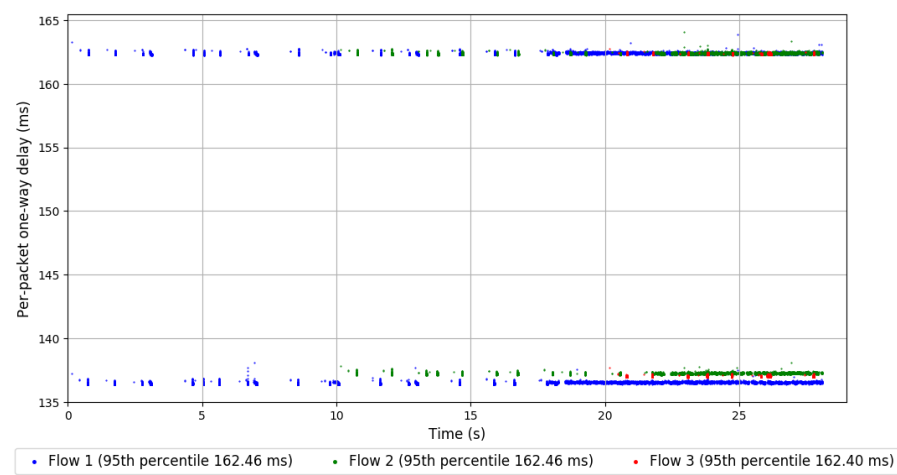
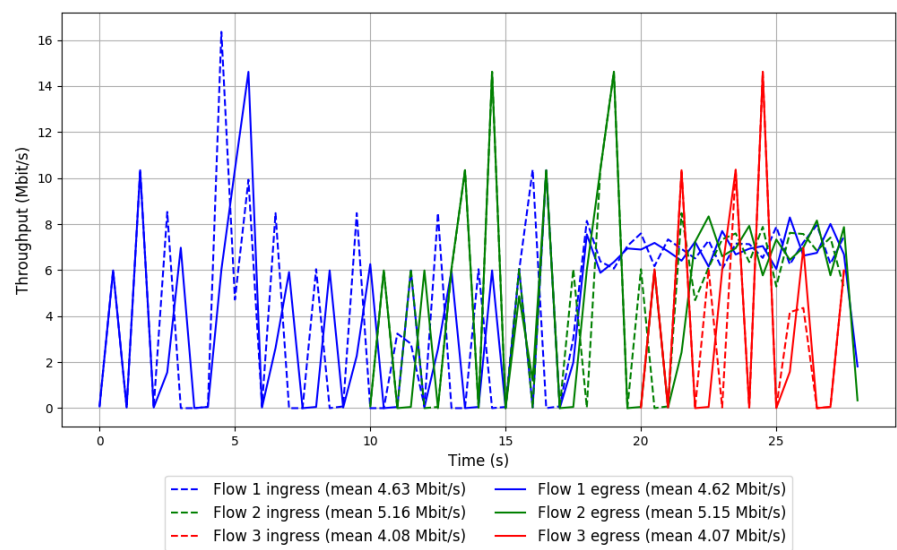


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-12 19:55:32
End at: 2017-10-12 19:56:02

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 162.455 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 162.463 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 162.457 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 162.396 ms
Loss rate: 0.00%
```


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

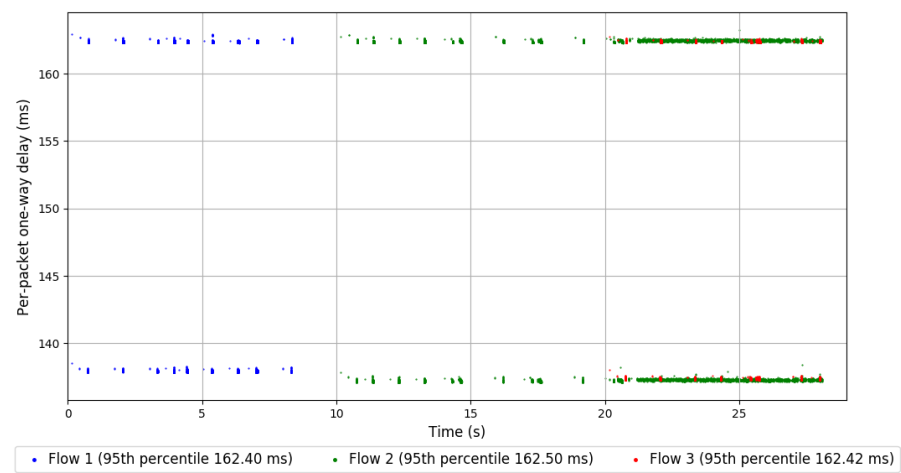
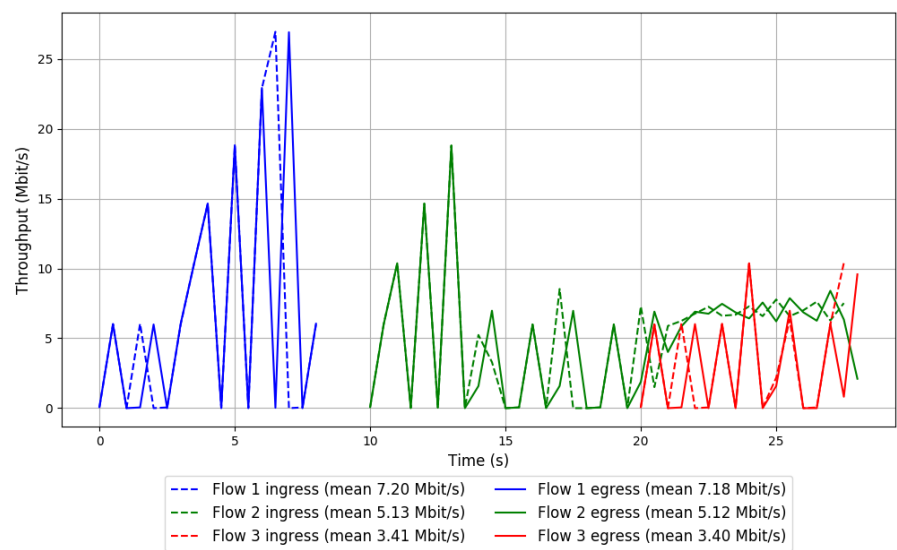


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-12 20:09:02
End at: 2017-10-12 20:09:32

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 162.483 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 162.400 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 162.505 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 162.420 ms
Loss rate: 0.00%
```

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

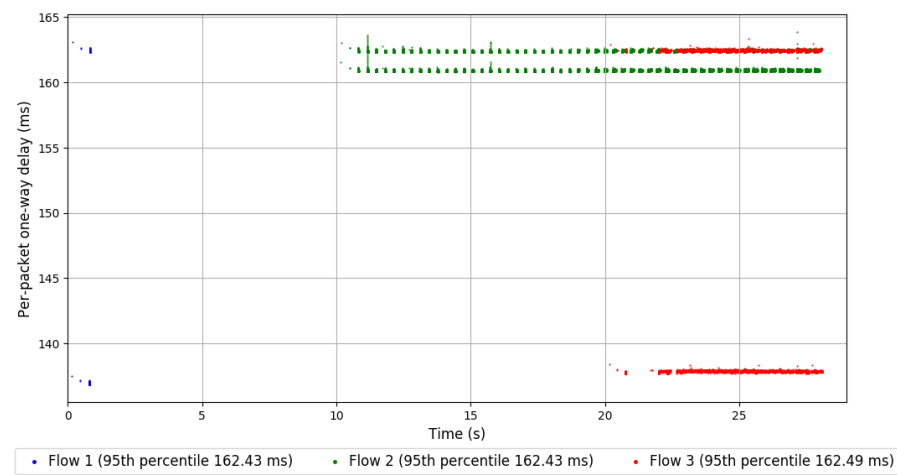
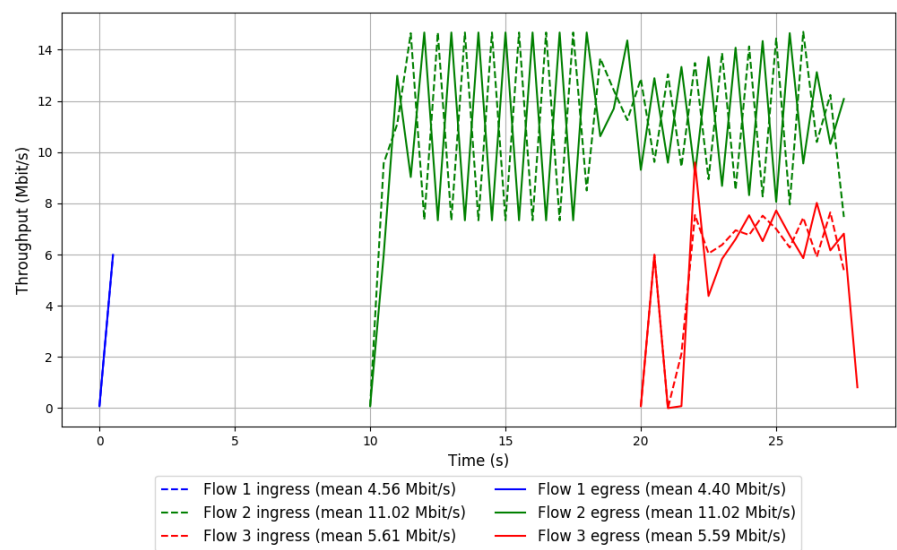


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-10-12 20:22:06
End at: 2017-10-12 20:22:36

# Below is generated by plot.py at 2017-10-12 22:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 162.449 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 162.430 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 162.431 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 162.492 ms
Loss rate: 0.35%
```

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

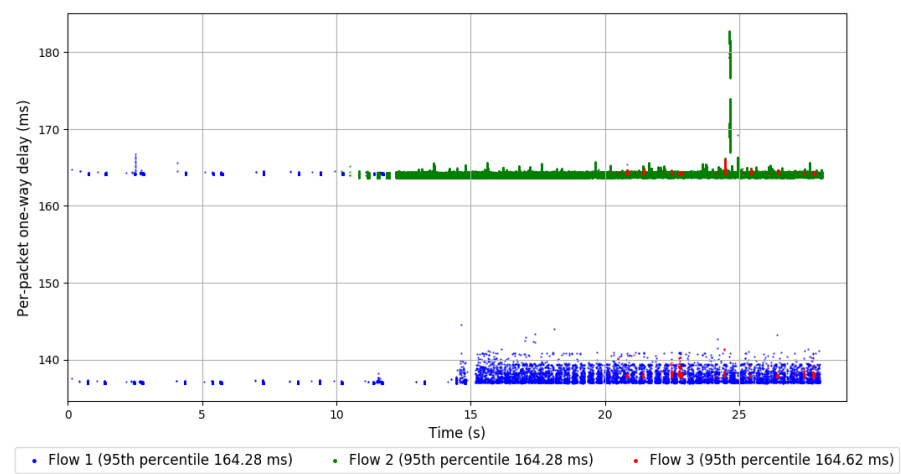
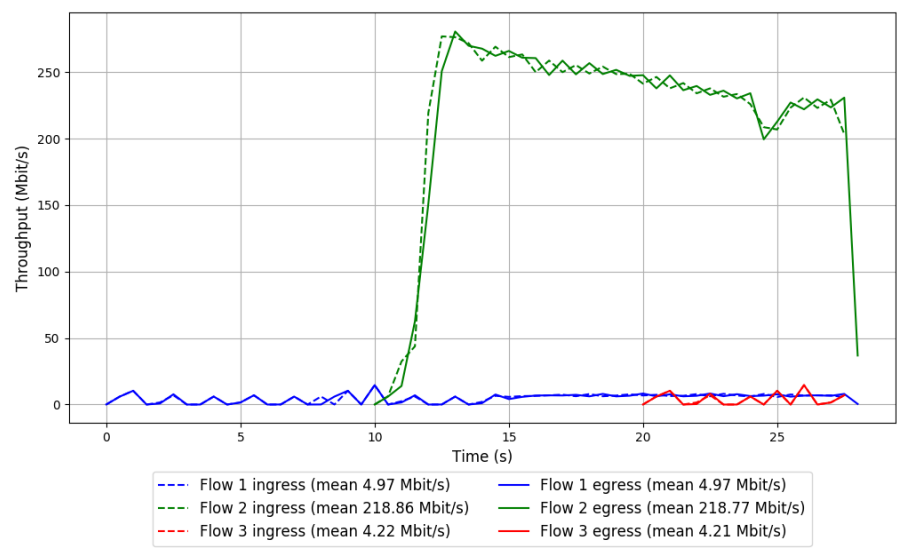


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-10-12 20:35:31
End at: 2017-10-12 20:36:01

# Below is generated by plot.py at 2017-10-12 23:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.31 Mbit/s
95th percentile per-packet one-way delay: 164.284 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 164.285 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 218.77 Mbit/s
95th percentile per-packet one-way delay: 164.282 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 164.623 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-12 20:49:05

End at: 2017-10-12 20:49:35

Below is generated by plot.py at 2017-10-12 23:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 164.272 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 164.259 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 164.271 ms

Loss rate: 0.00%

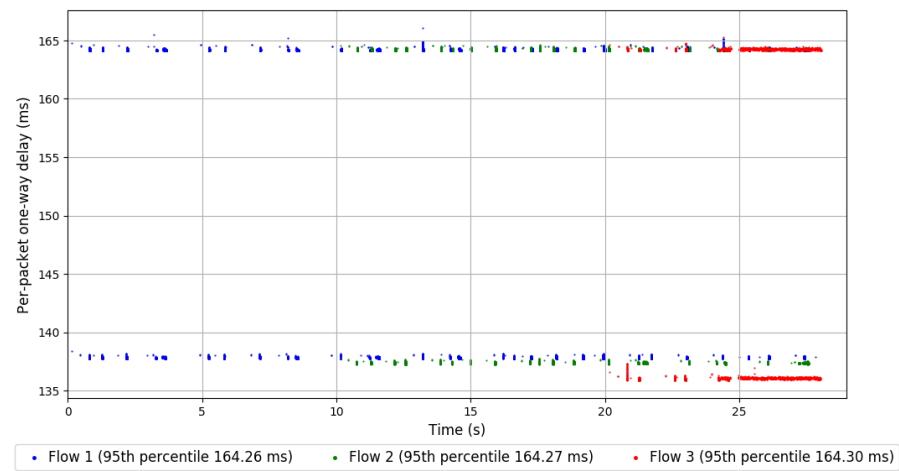
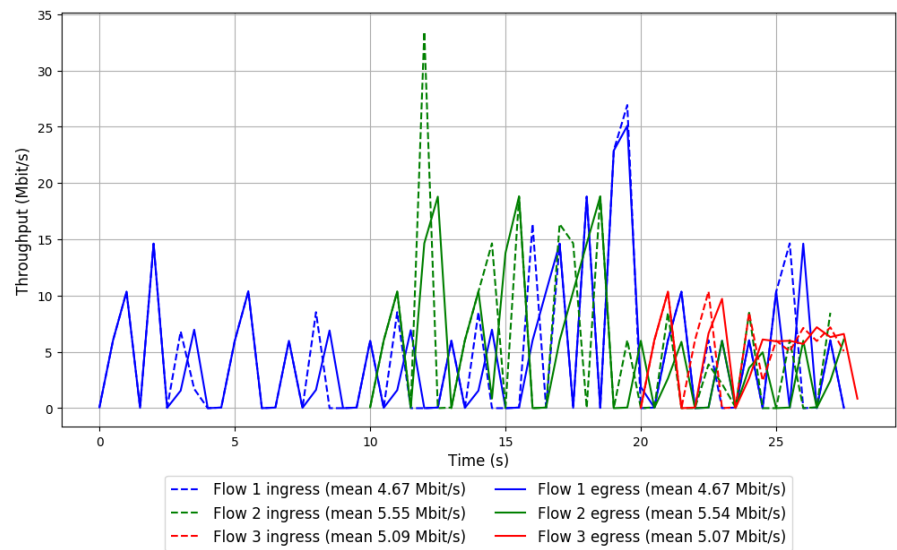
-- Flow 3:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 164.297 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-12 21:02:25

End at: 2017-10-12 21:02:55

Below is generated by plot.py at 2017-10-12 23:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 164.268 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 164.320 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 164.285 ms

Loss rate: 0.06%

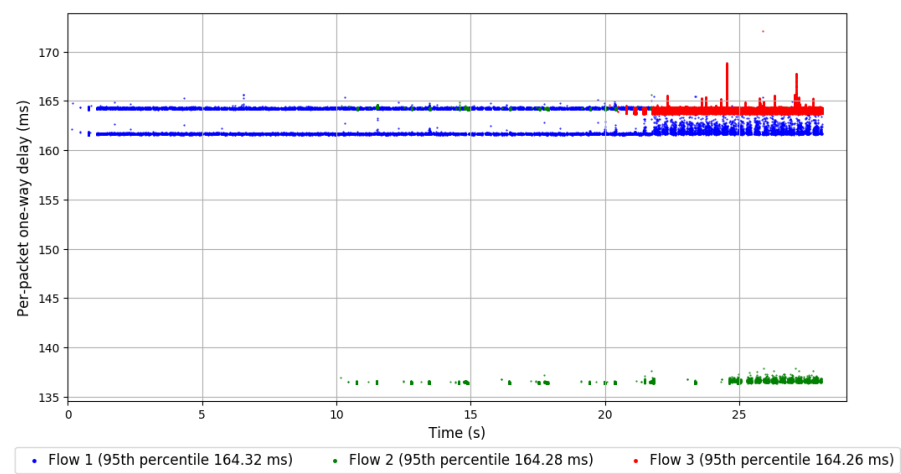
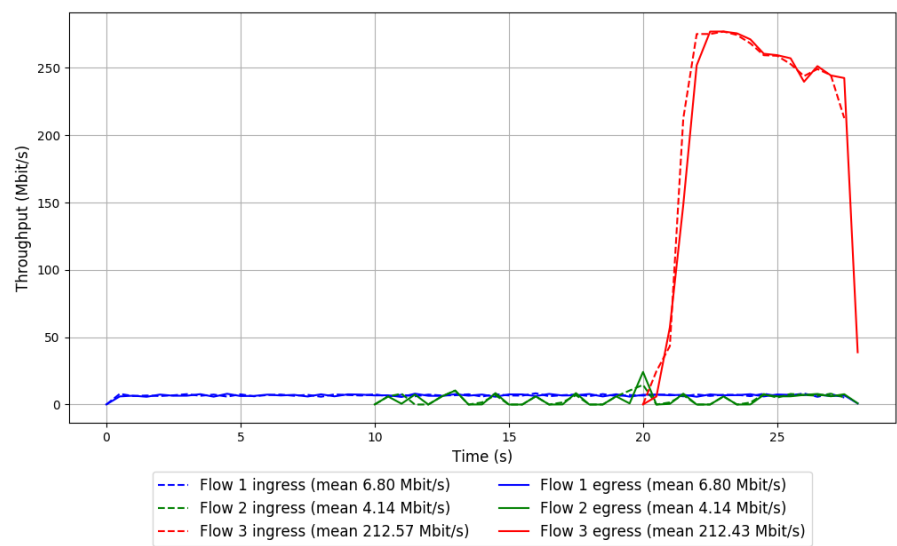
-- Flow 3:

Average throughput: 212.43 Mbit/s

95th percentile per-packet one-way delay: 164.259 ms

Loss rate: 0.41%

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

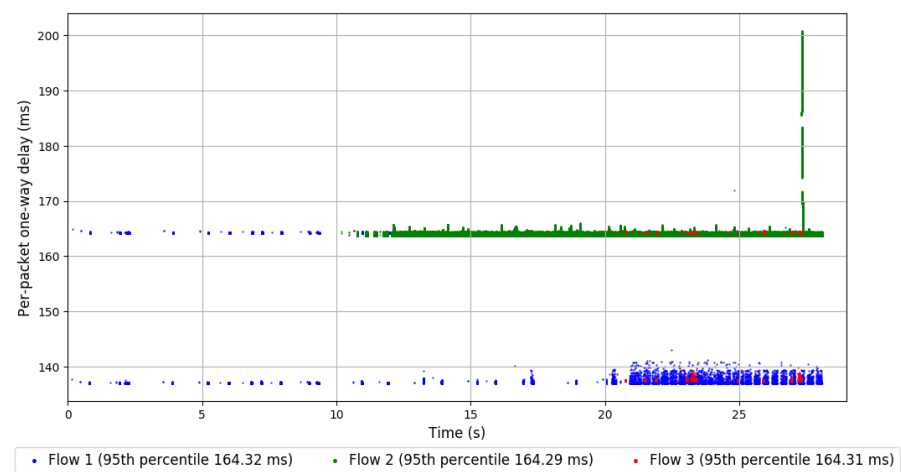
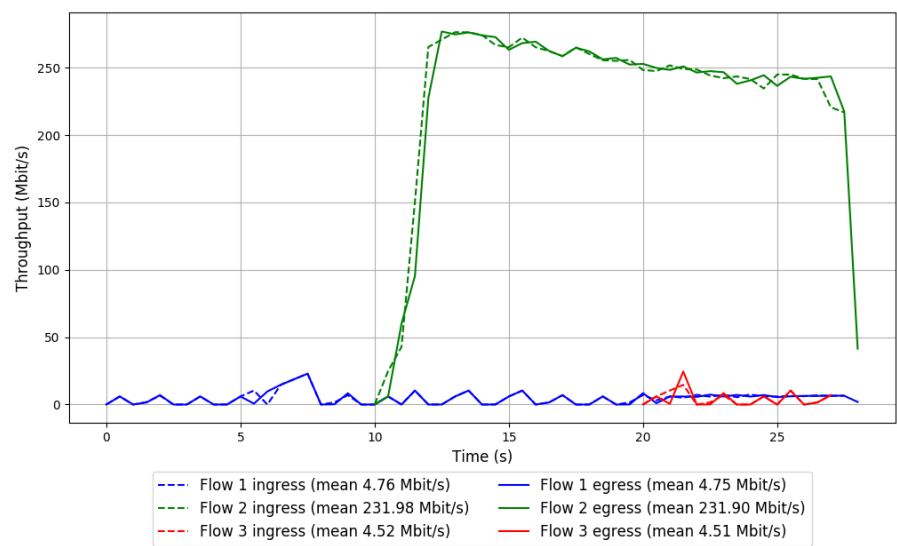


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-10-12 21:15:57
End at: 2017-10-12 21:16:27

# Below is generated by plot.py at 2017-10-12 23:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 154.52 Mbit/s
95th percentile per-packet one-way delay: 164.291 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 164.325 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 231.90 Mbit/s
95th percentile per-packet one-way delay: 164.291 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 164.315 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-12 21:29:49

End at: 2017-10-12 21:30:19

Below is generated by plot.py at 2017-10-12 23:01:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 164.616 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 164.376 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 164.359 ms

Loss rate: 0.13%

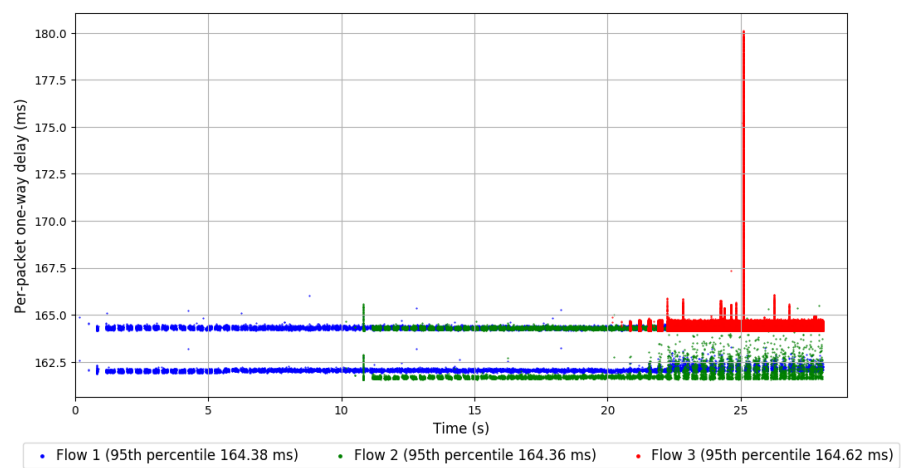
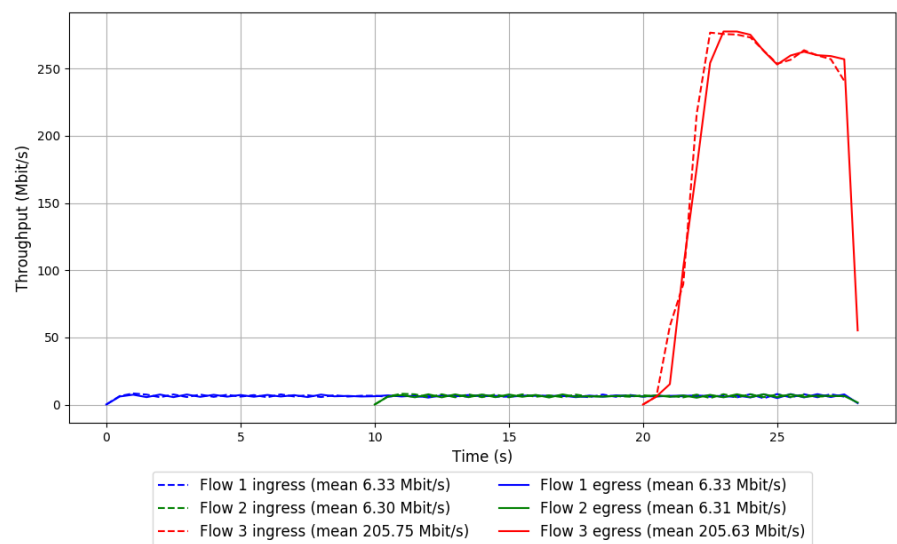
-- Flow 3:

Average throughput: 205.63 Mbit/s

95th percentile per-packet one-way delay: 164.622 ms

Loss rate: 0.39%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-12 21:43:55

End at: 2017-10-12 21:44:25

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.46 Mbit/s

95th percentile per-packet one-way delay: 166.097 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 225.90 Mbit/s

95th percentile per-packet one-way delay: 166.267 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 206.55 Mbit/s

95th percentile per-packet one-way delay: 165.535 ms

Loss rate: 0.21%

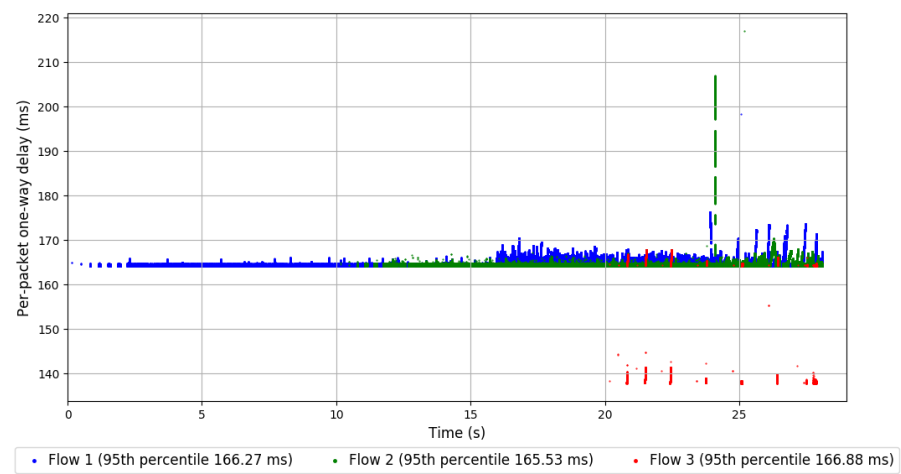
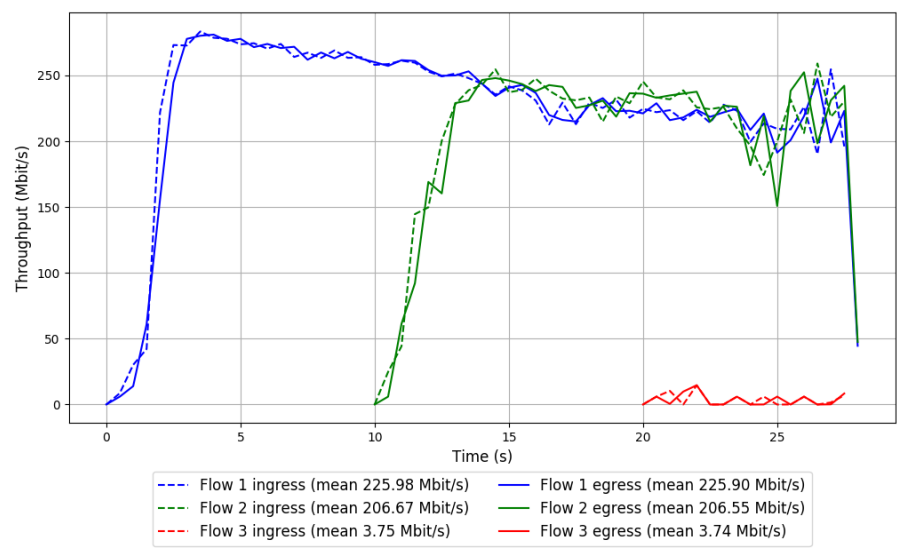
-- Flow 3:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 166.881 ms

Loss rate: 0.00%

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

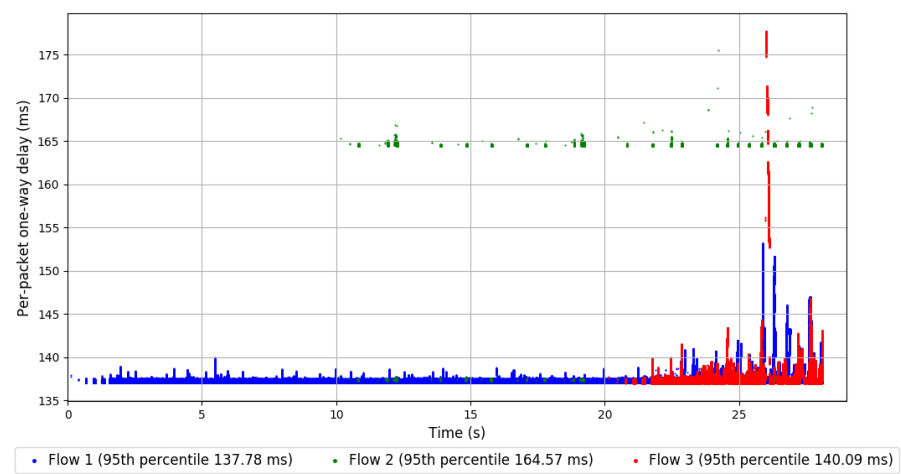
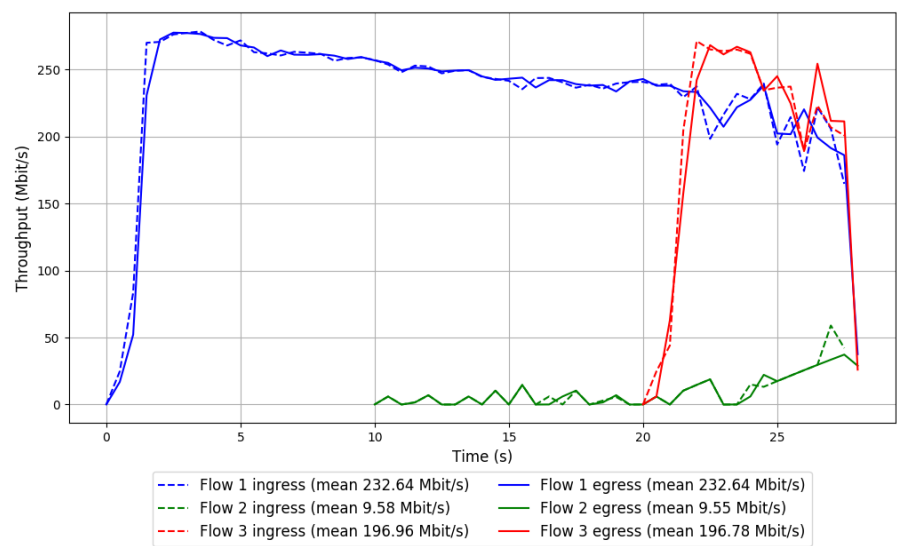


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-12 21:57:43
End at: 2017-10-12 21:58:13

# Below is generated by plot.py at 2017-10-12 23:07:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.65 Mbit/s
95th percentile per-packet one-way delay: 138.822 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 232.64 Mbit/s
95th percentile per-packet one-way delay: 137.785 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 164.572 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 196.78 Mbit/s
95th percentile per-packet one-way delay: 140.090 ms
Loss rate: 0.10%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-12 19:57:22

End at: 2017-10-12 19:57:52

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 162.856 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 162.857 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 162.856 ms

Loss rate: 0.23%

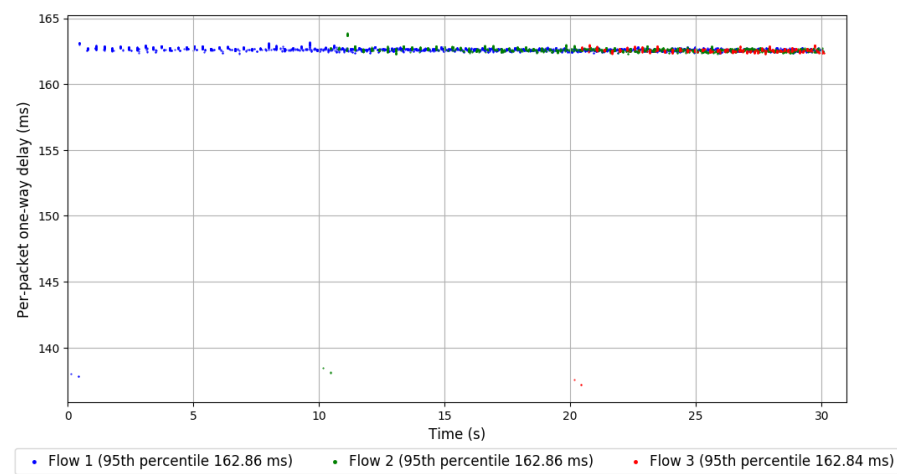
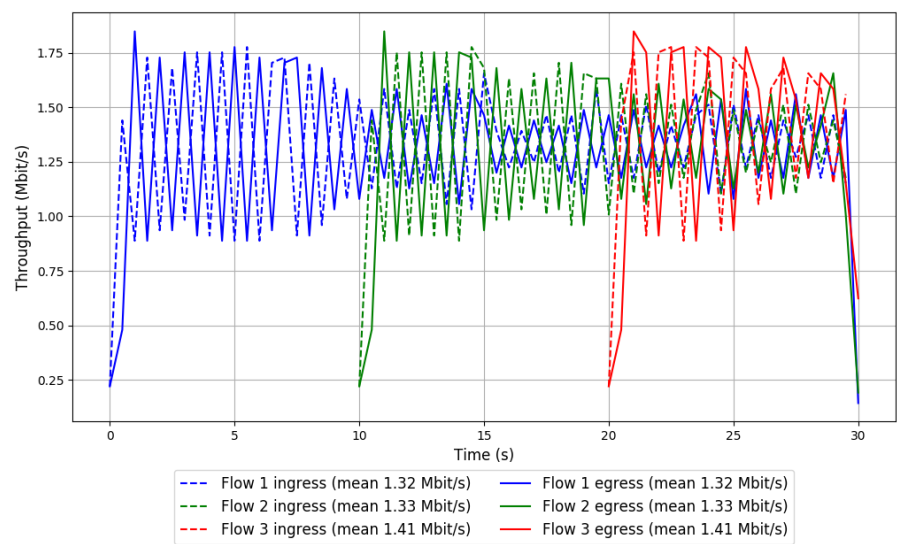
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 162.837 ms

Loss rate: 0.17%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-12 20:10:53

End at: 2017-10-12 20:11:23

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 166.973 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 162.822 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 163.593 ms

Loss rate: 0.01%

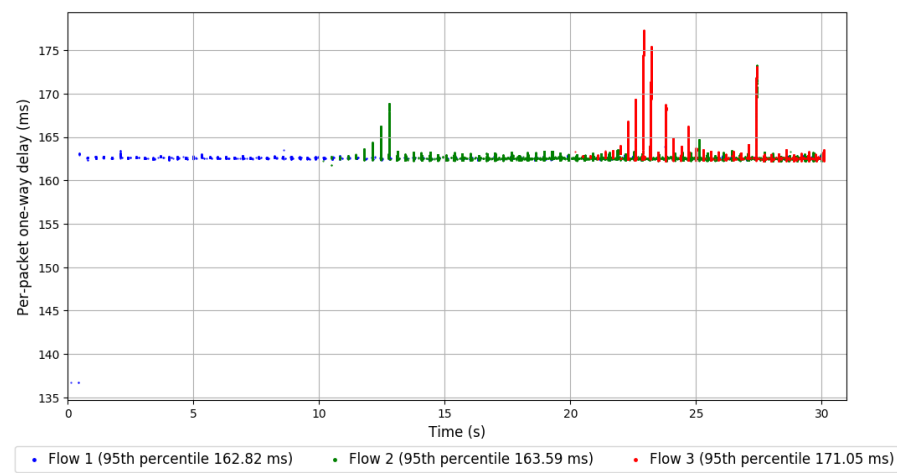
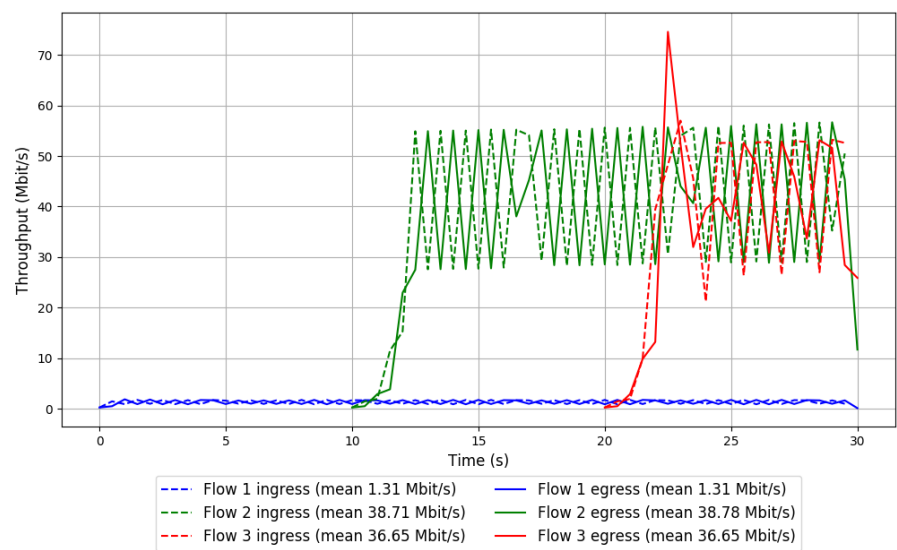
-- Flow 3:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 171.052 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-12 20:23:58

End at: 2017-10-12 20:24:28

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 170.116 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 164.569 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 164.560 ms

Loss rate: 0.28%

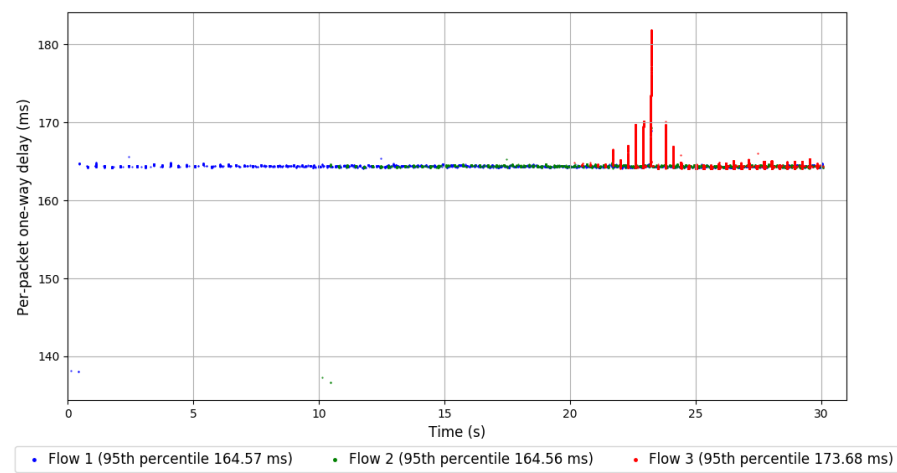
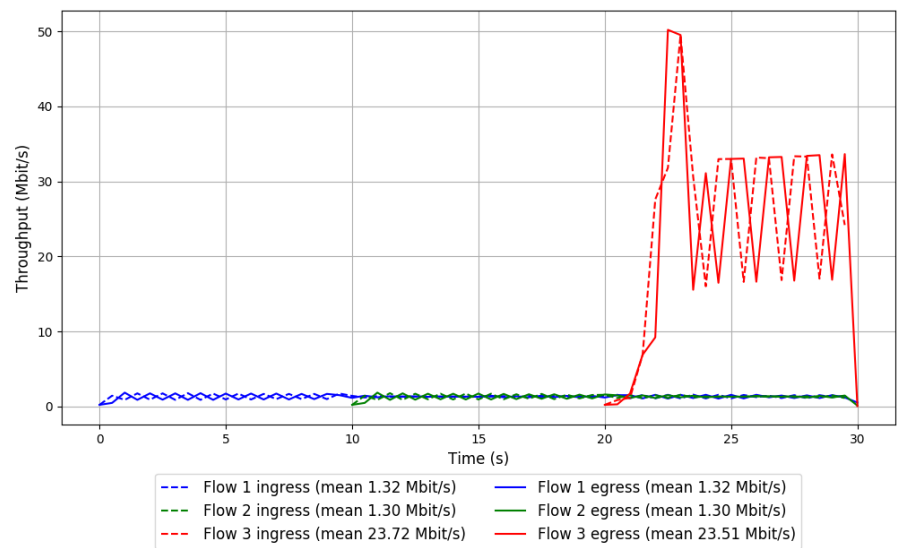
-- Flow 3:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 173.683 ms

Loss rate: 1.55%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-12 20:37:37

End at: 2017-10-12 20:38:07

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 166.800 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 164.535 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 164.474 ms

Loss rate: 0.00%

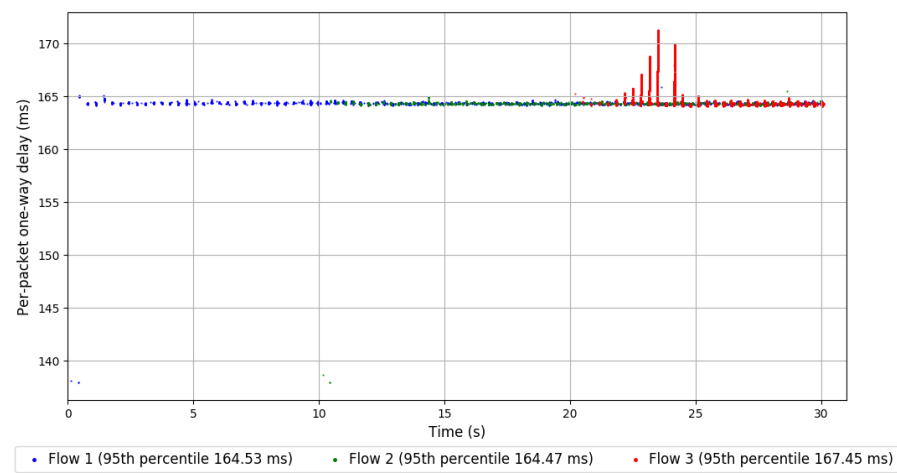
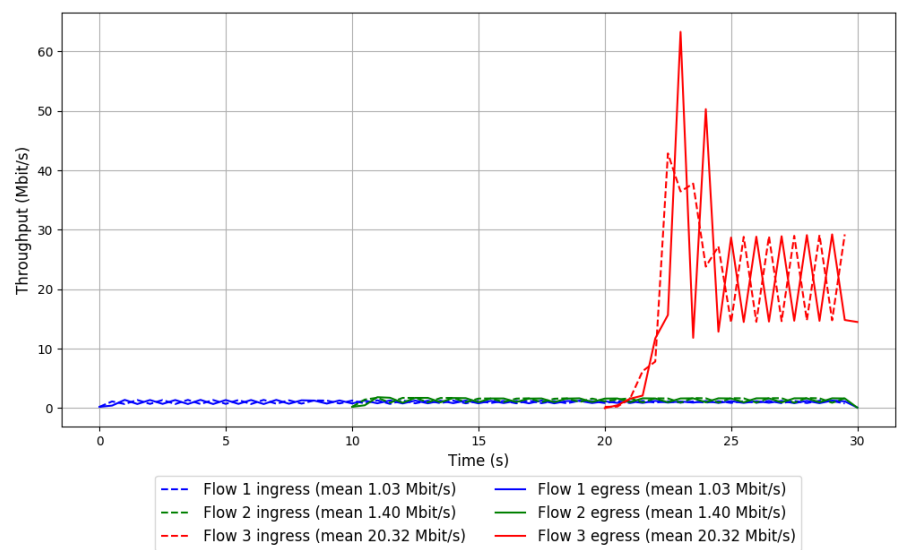
-- Flow 3:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 167.447 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-12 20:50:55

End at: 2017-10-12 20:51:25

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 164.557 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 164.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 164.622 ms

Loss rate: 0.00%

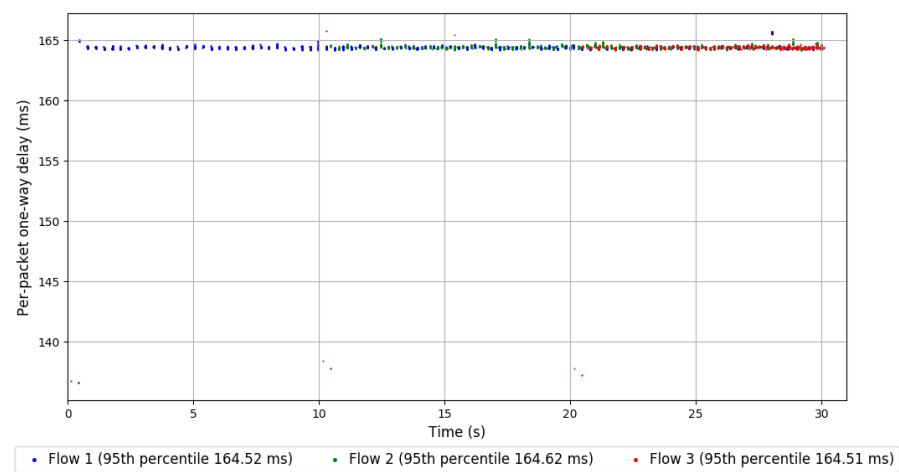
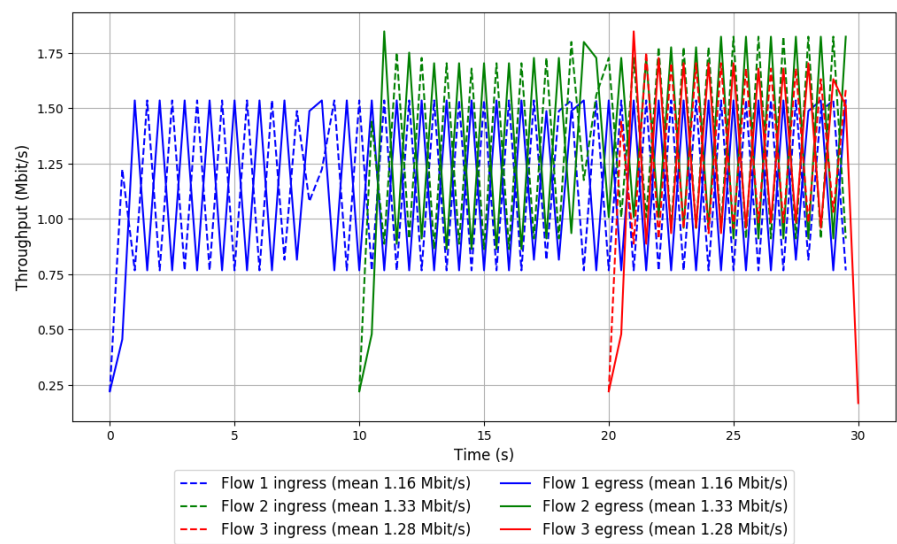
-- Flow 3:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 164.509 ms

Loss rate: 0.19%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-12 21:04:19

End at: 2017-10-12 21:04:49

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 165.014 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 164.951 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 164.487 ms

Loss rate: 0.00%

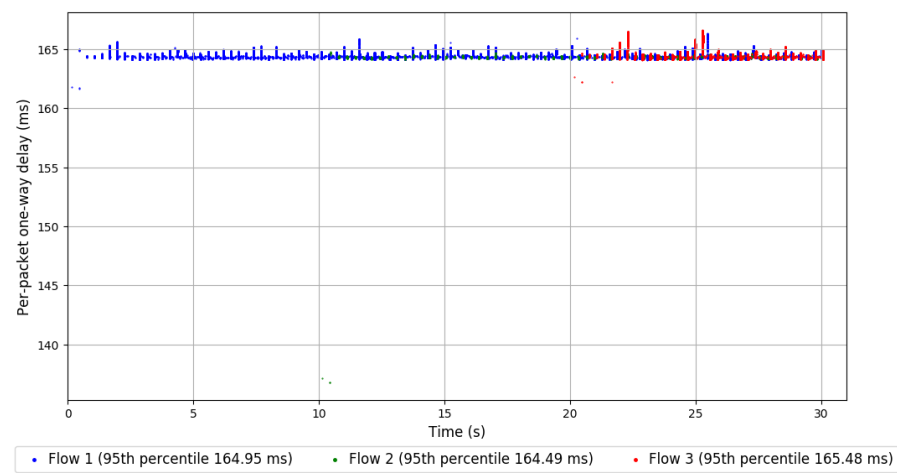
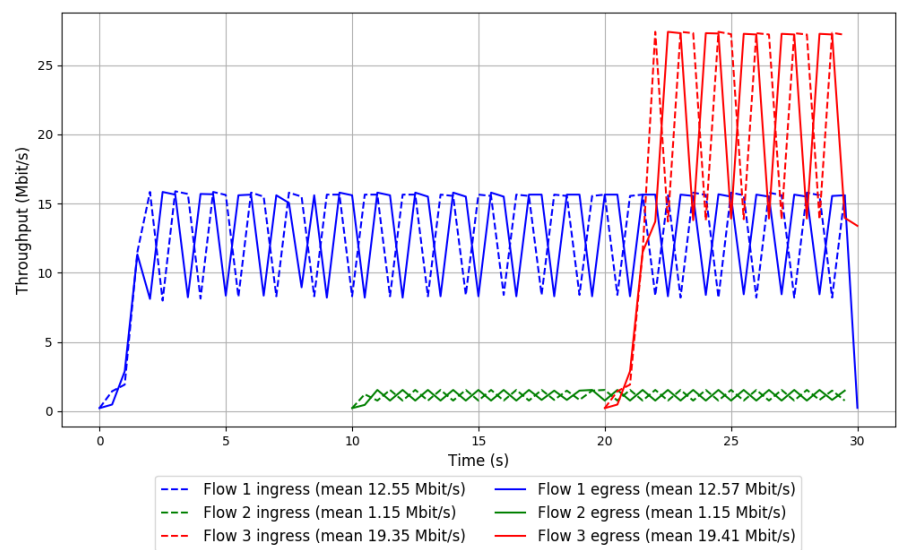
-- Flow 3:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 165.480 ms

Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-12 21:18:01

End at: 2017-10-12 21:18:31

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.08 Mbit/s

95th percentile per-packet one-way delay: 166.321 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 166.641 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 165.803 ms

Loss rate: 0.00%

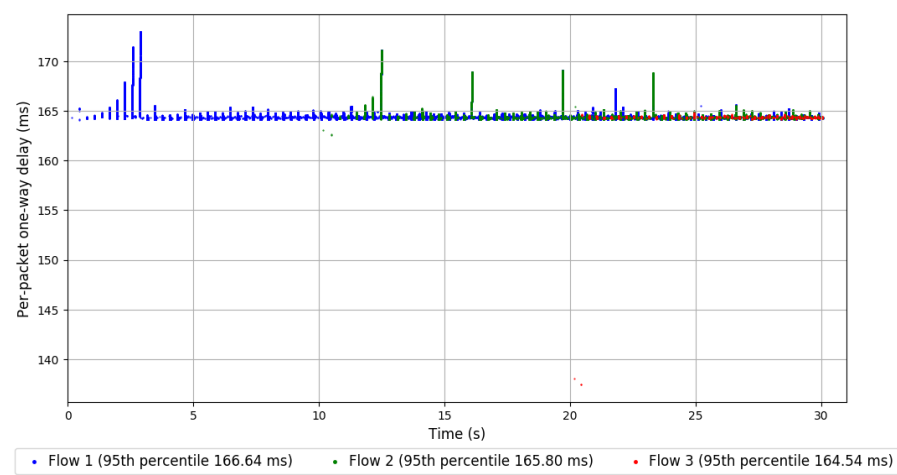
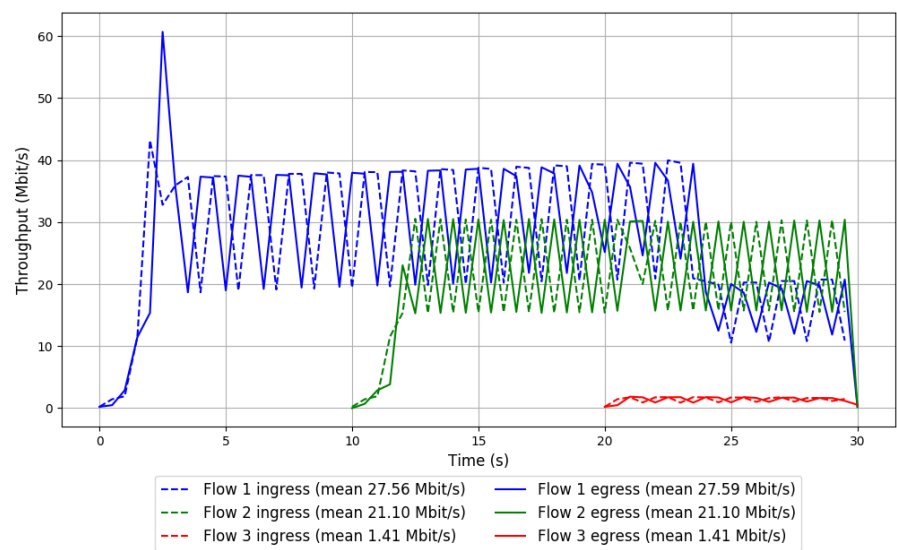
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 164.539 ms

Loss rate: 0.17%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-12 21:31:47

End at: 2017-10-12 21:32:17

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 165.238 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 165.285 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 164.545 ms

Loss rate: 0.15%

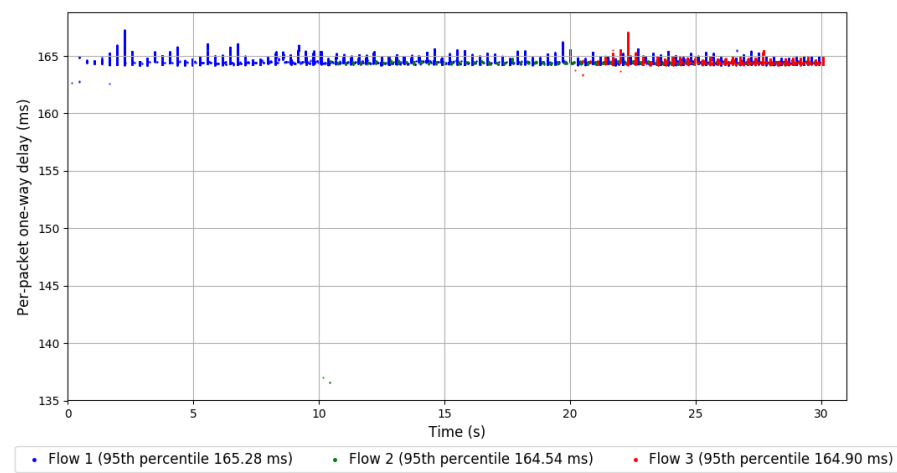
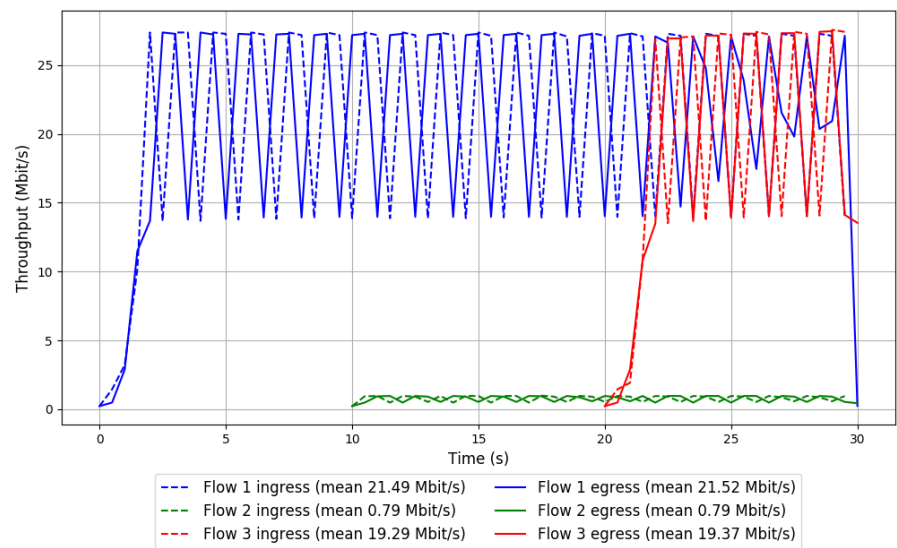
-- Flow 3:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 164.898 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-12 21:46:18

End at: 2017-10-12 21:46:48

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.28 Mbit/s

95th percentile per-packet one-way delay: 166.649 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 39.93 Mbit/s

95th percentile per-packet one-way delay: 165.463 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 167.819 ms

Loss rate: 0.00%

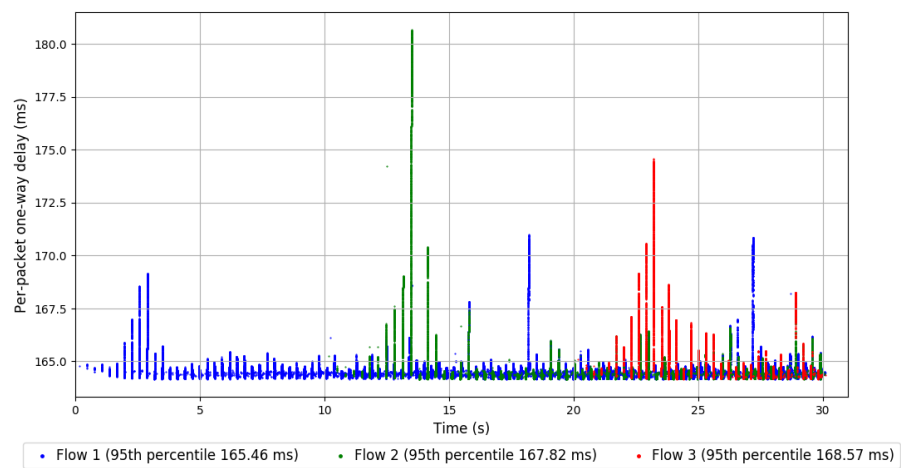
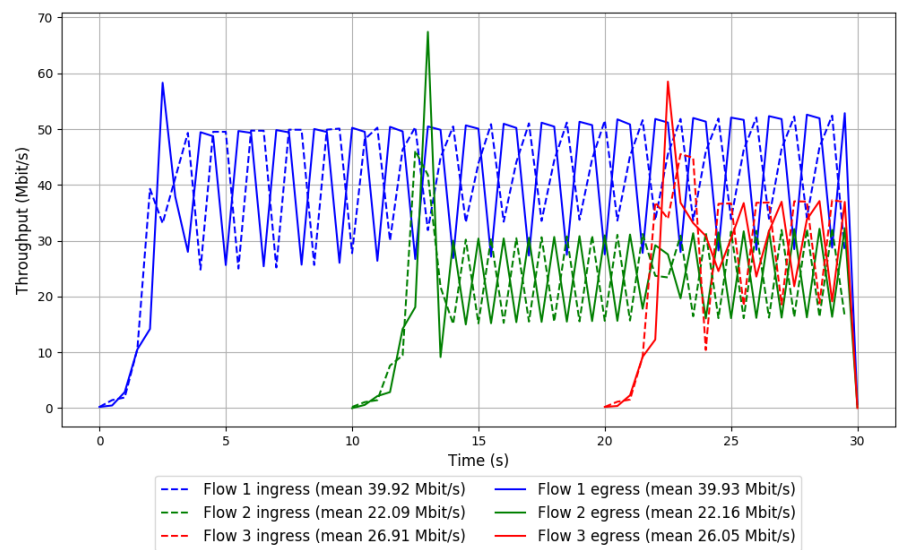
-- Flow 3:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 168.575 ms

Loss rate: 3.40%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-12 22:00:05

End at: 2017-10-12 22:00:35

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.19 Mbit/s

95th percentile per-packet one-way delay: 139.663 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 138.681 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.04 Mbit/s

95th percentile per-packet one-way delay: 139.051 ms

Loss rate: 0.02%

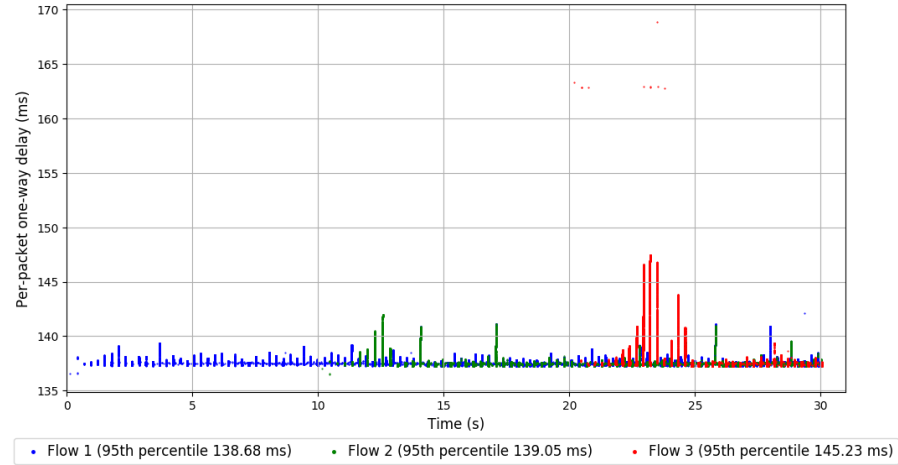
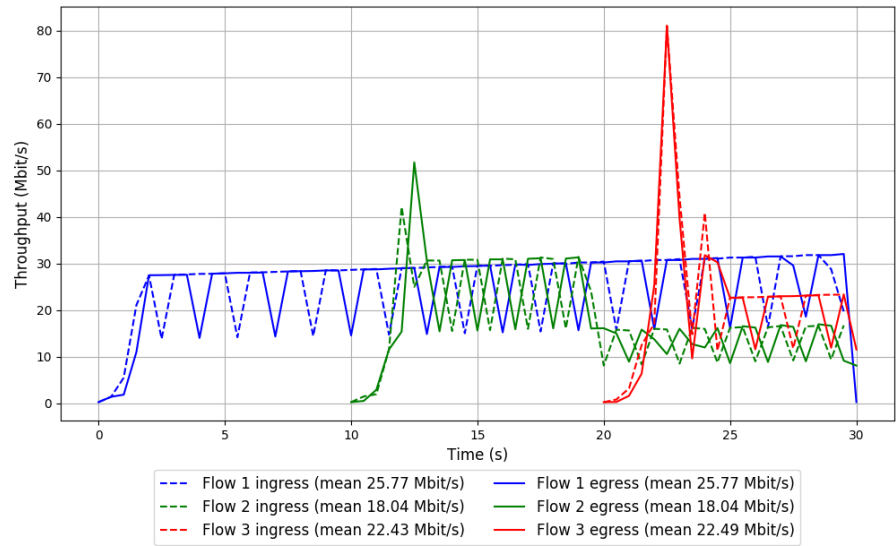
-- Flow 3:

Average throughput: 22.49 Mbit/s

95th percentile per-packet one-way delay: 145.231 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

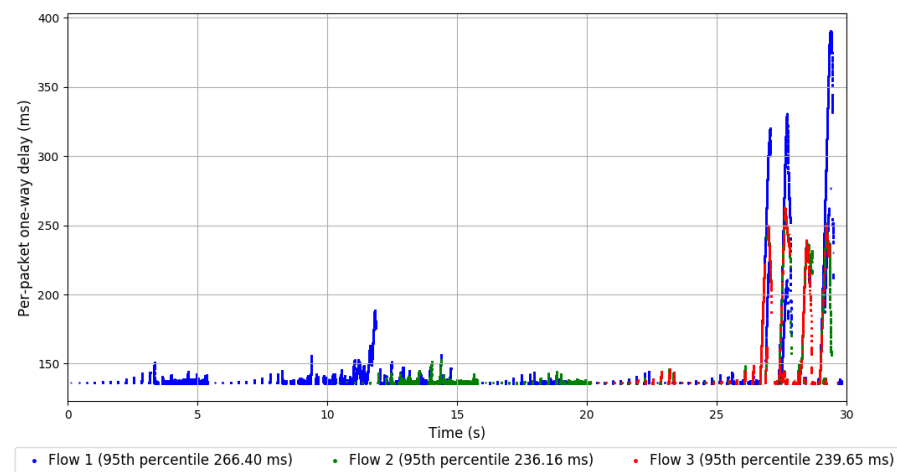
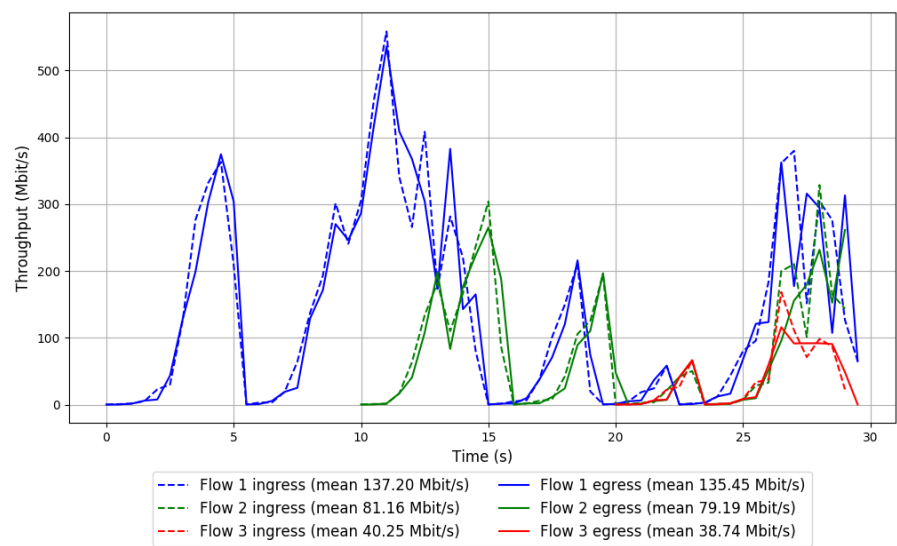


```
Run 1: Statistics of Verus

Start at: 2017-10-12 19:52:19
End at: 2017-10-12 19:52:49

# Below is generated by plot.py at 2017-10-12 23:07:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.26 Mbit/s
95th percentile per-packet one-way delay: 245.619 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 135.45 Mbit/s
95th percentile per-packet one-way delay: 266.396 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 79.19 Mbit/s
95th percentile per-packet one-way delay: 236.160 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 38.74 Mbit/s
95th percentile per-packet one-way delay: 239.648 ms
Loss rate: 3.75%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-12 20:05:45

End at: 2017-10-12 20:06:15

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.94 Mbit/s

95th percentile per-packet one-way delay: 223.557 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 219.57 Mbit/s

95th percentile per-packet one-way delay: 226.707 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 185.837 ms

Loss rate: 1.16%

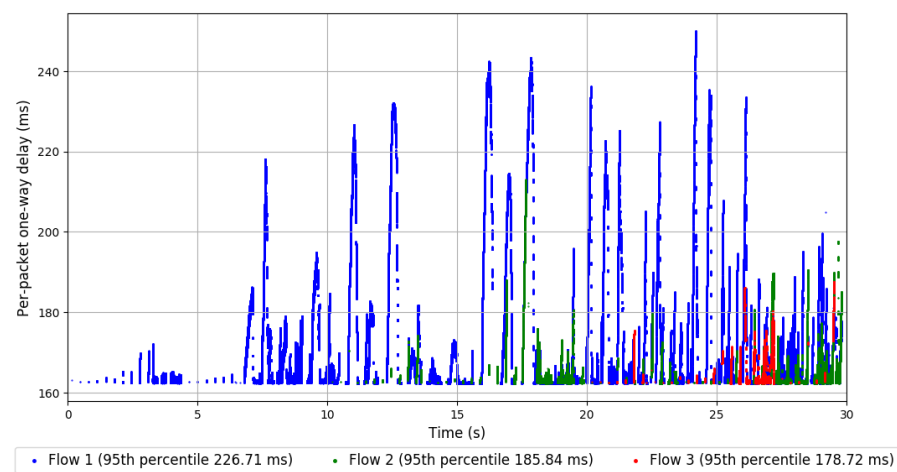
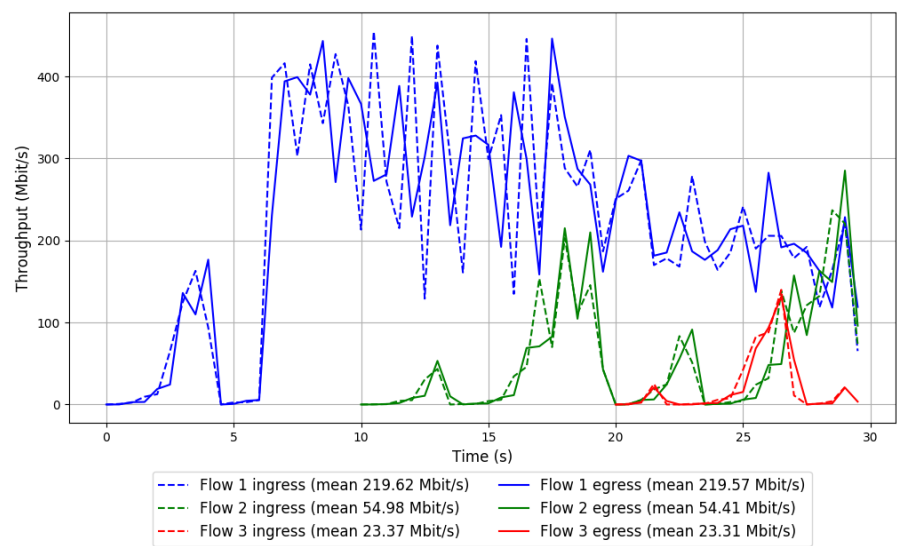
-- Flow 3:

Average throughput: 23.31 Mbit/s

95th percentile per-packet one-way delay: 178.724 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-12 20:19:17

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

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.94 Mbit/s

95th percentile per-packet one-way delay: 201.512 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 187.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.07 Mbit/s

95th percentile per-packet one-way delay: 211.324 ms

Loss rate: 0.56%

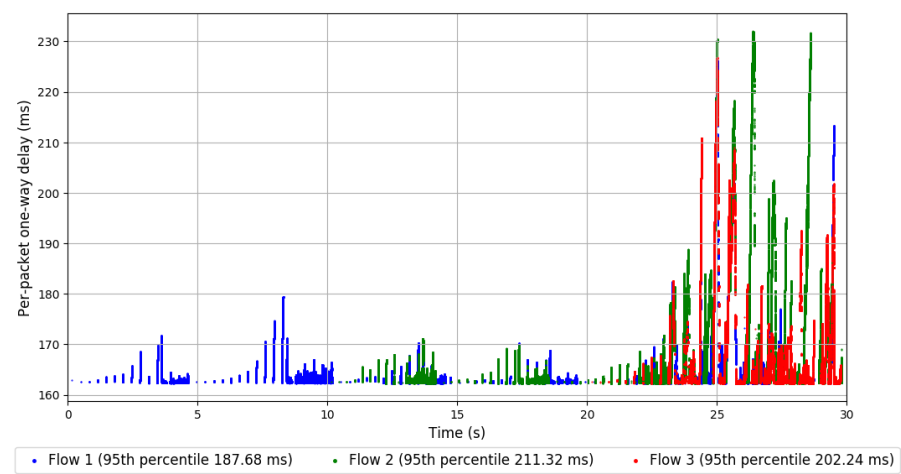
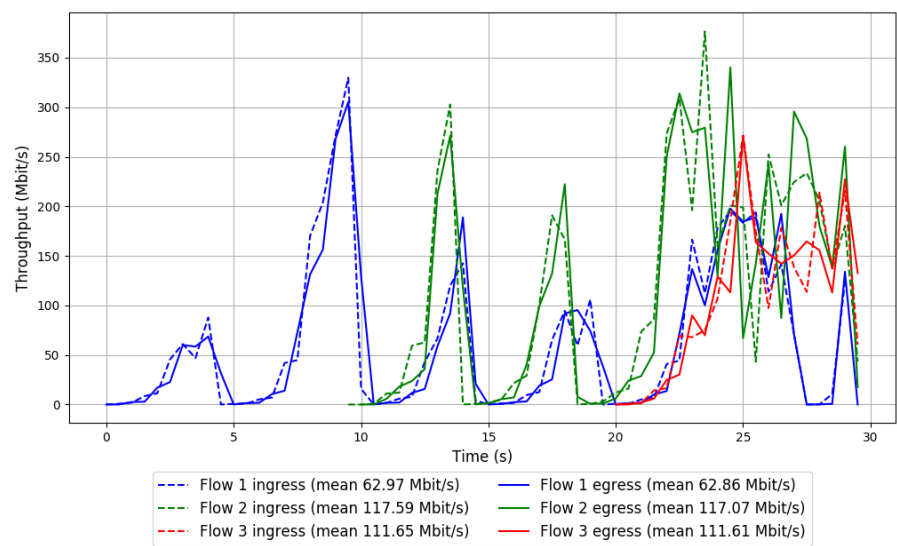
-- Flow 3:

Average throughput: 111.61 Mbit/s

95th percentile per-packet one-way delay: 202.236 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-12 20:32:22

End at: 2017-10-12 20:32:52

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.95 Mbit/s

95th percentile per-packet one-way delay: 186.664 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 184.654 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.80 Mbit/s

95th percentile per-packet one-way delay: 189.532 ms

Loss rate: 0.26%

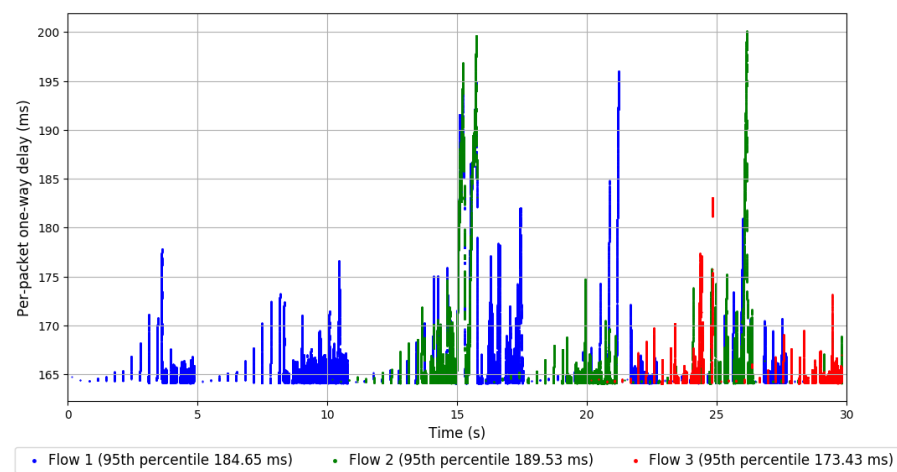
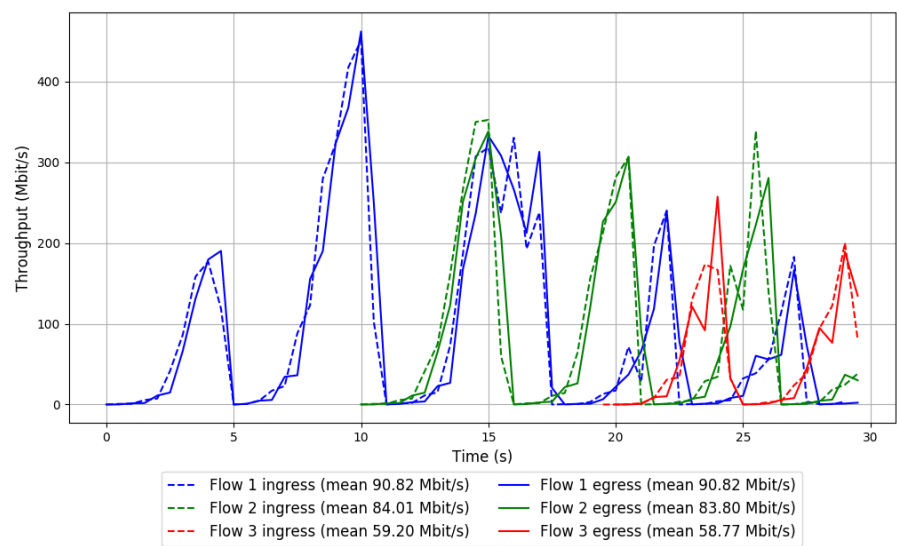
-- Flow 3:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 173.426 ms

Loss rate: 0.99%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-12 20:45:45

End at: 2017-10-12 20:46:15

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.47 Mbit/s

95th percentile per-packet one-way delay: 239.833 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 245.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 174.200 ms

Loss rate: 0.00%

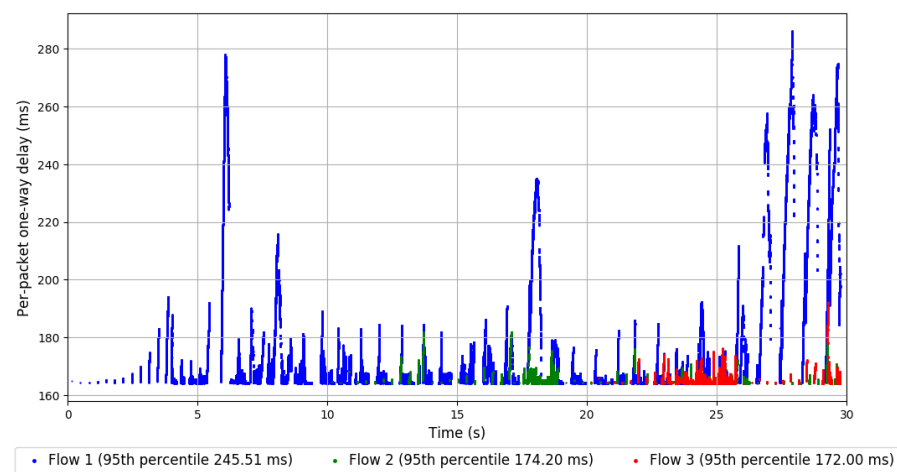
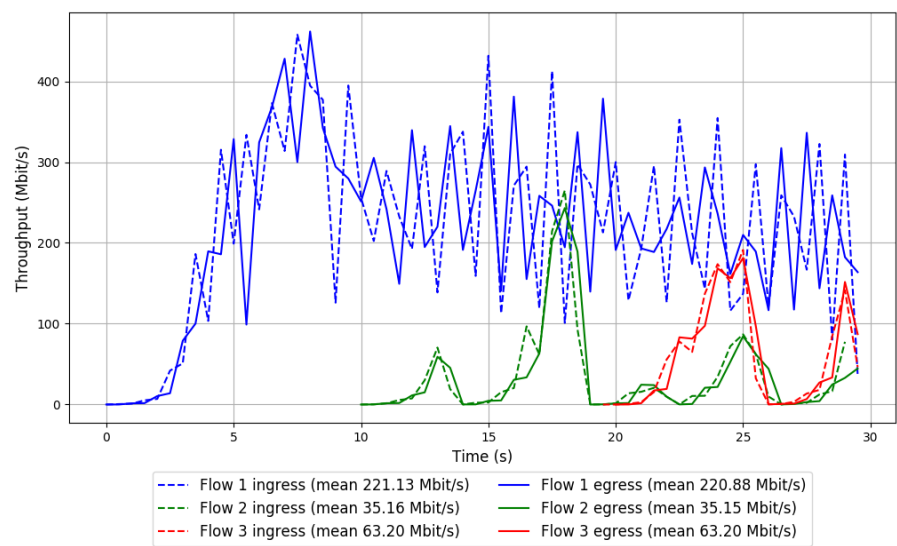
-- Flow 3:

Average throughput: 63.20 Mbit/s

95th percentile per-packet one-way delay: 171.999 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-12 20:59:24

End at: 2017-10-12 20:59:54

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.79 Mbit/s

95th percentile per-packet one-way delay: 251.048 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 171.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.28 Mbit/s

95th percentile per-packet one-way delay: 336.280 ms

Loss rate: 3.67%

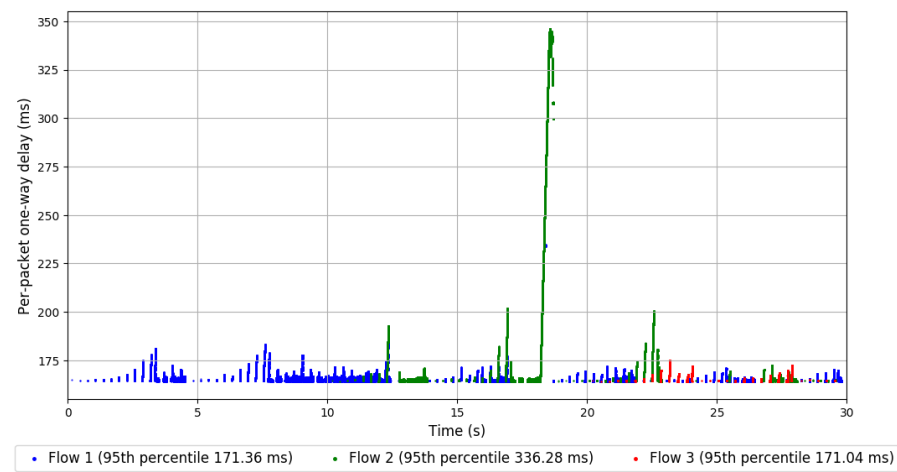
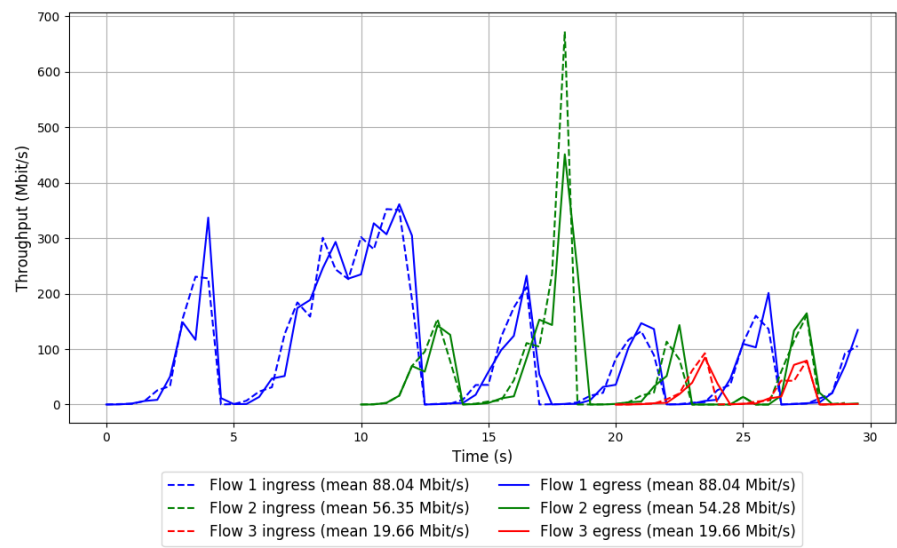
-- Flow 3:

Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 171.040 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-12 21:12:54

End at: 2017-10-12 21:13:24

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.25 Mbit/s

95th percentile per-packet one-way delay: 193.053 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 72.37 Mbit/s

95th percentile per-packet one-way delay: 216.742 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 172.315 ms

Loss rate: 0.00%

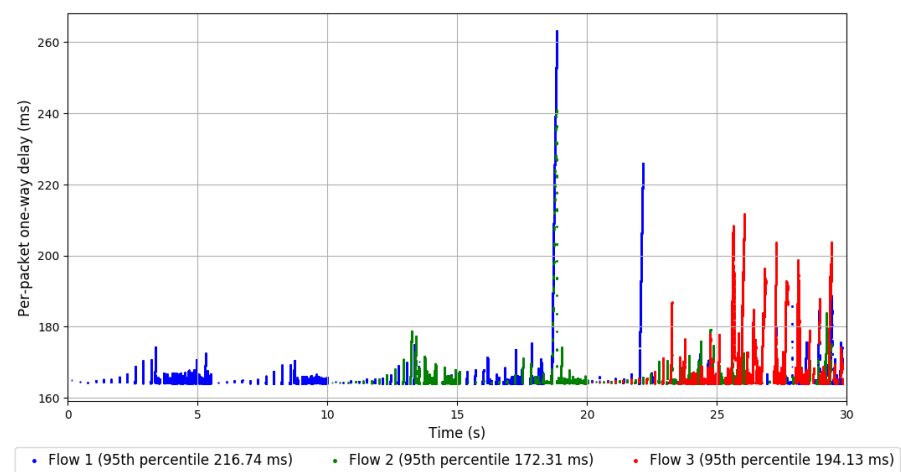
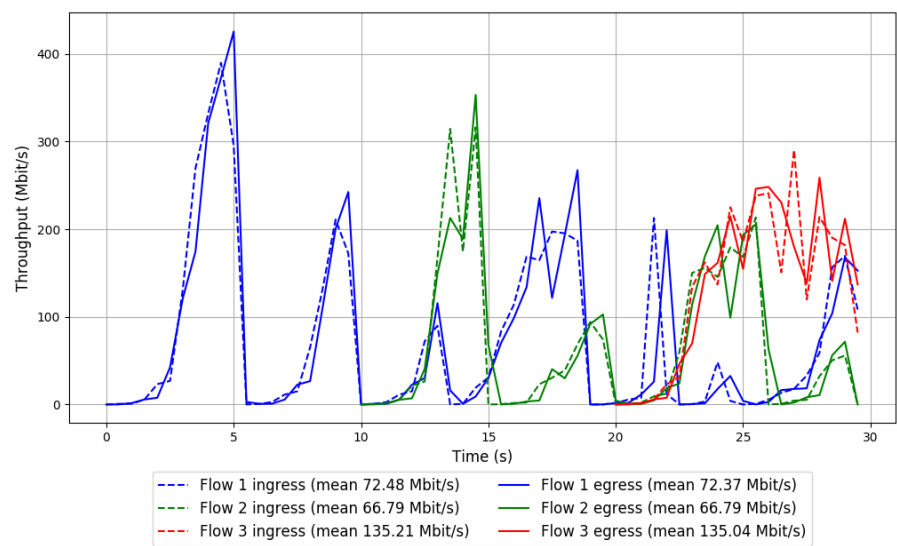
-- Flow 3:

Average throughput: 135.04 Mbit/s

95th percentile per-packet one-way delay: 194.135 ms

Loss rate: 0.43%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-12 21:26:39

End at: 2017-10-12 21:27:09

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.08 Mbit/s

95th percentile per-packet one-way delay: 177.324 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 175.987 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 67.33 Mbit/s

95th percentile per-packet one-way delay: 177.398 ms

Loss rate: 0.00%

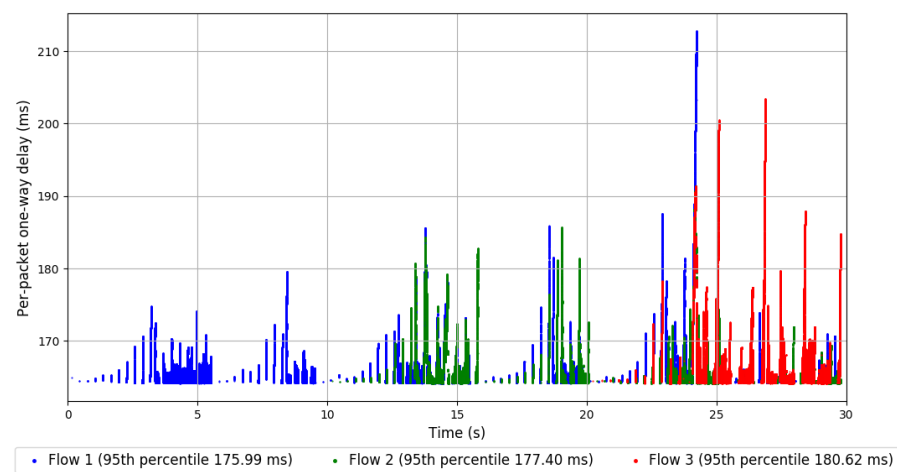
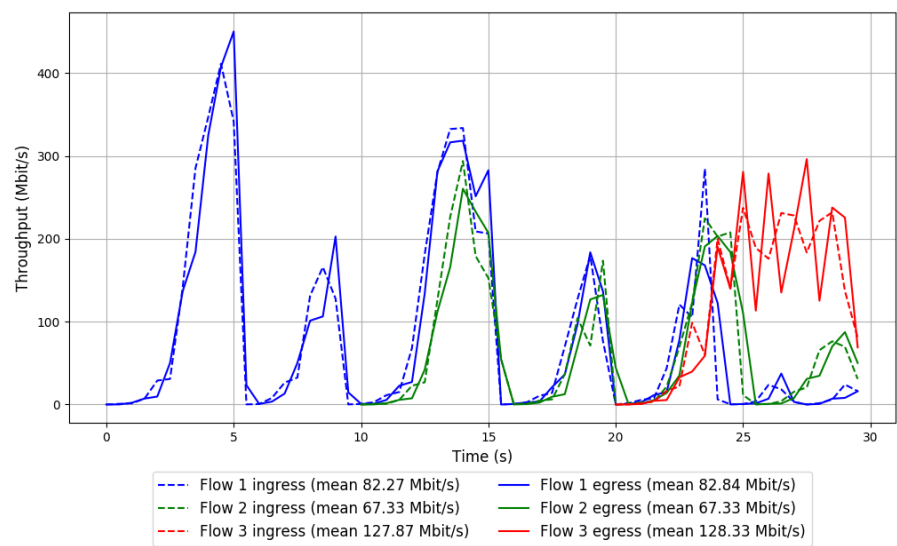
-- Flow 3:

Average throughput: 128.33 Mbit/s

95th percentile per-packet one-way delay: 180.620 ms

Loss rate: 0.56%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-12 21:40:37

End at: 2017-10-12 21:41:07

Below is generated by plot.py at 2017-10-12 23:07:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.46 Mbit/s

95th percentile per-packet one-way delay: 245.702 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 148.62 Mbit/s

95th percentile per-packet one-way delay: 223.698 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 103.06 Mbit/s

95th percentile per-packet one-way delay: 201.787 ms

Loss rate: 0.01%

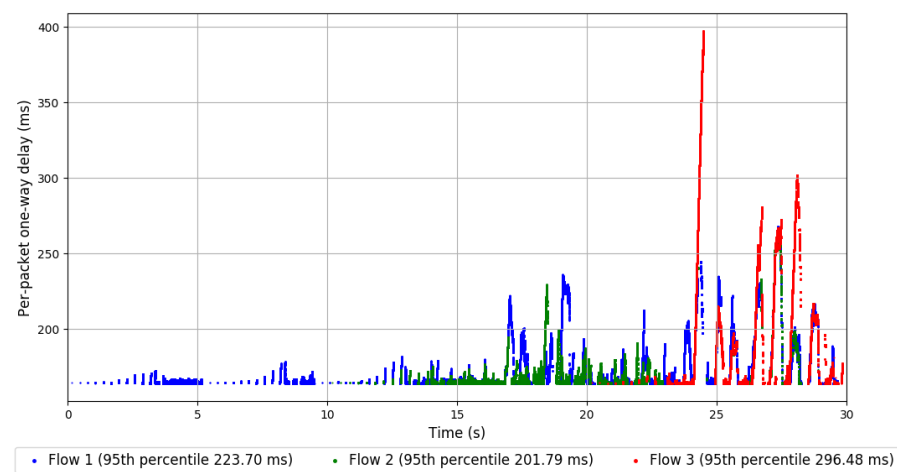
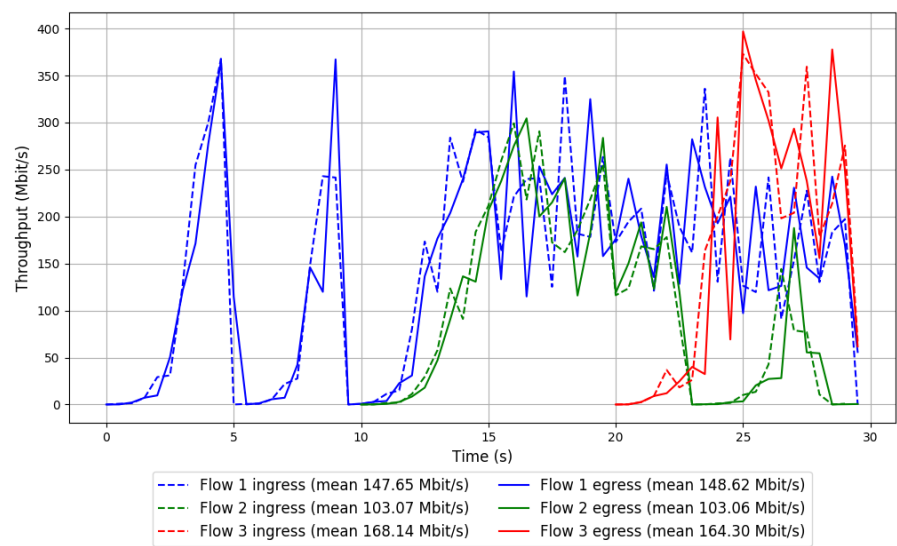
-- Flow 3:

Average throughput: 164.30 Mbit/s

95th percentile per-packet one-way delay: 296.484 ms

Loss rate: 2.49%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-12 21:54:39

End at: 2017-10-12 21:55:09

Below is generated by plot.py at 2017-10-12 23:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.32 Mbit/s

95th percentile per-packet one-way delay: 258.673 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 157.96 Mbit/s

95th percentile per-packet one-way delay: 271.407 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 114.48 Mbit/s

95th percentile per-packet one-way delay: 190.885 ms

Loss rate: 0.00%

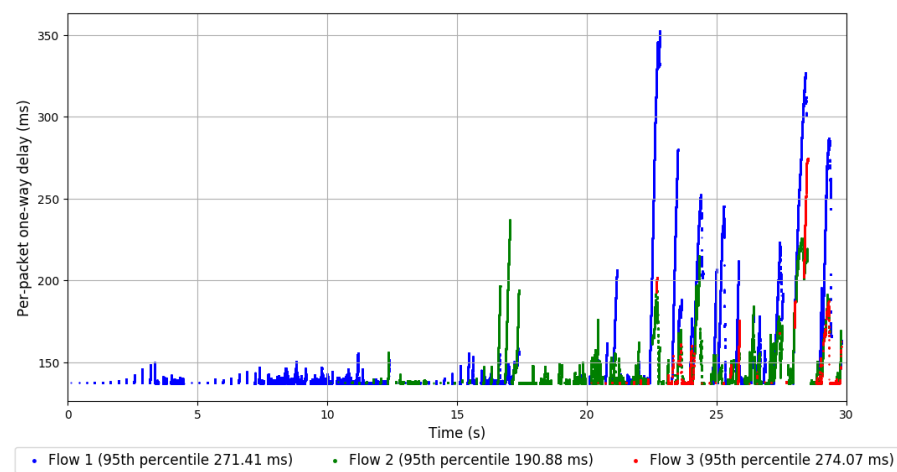
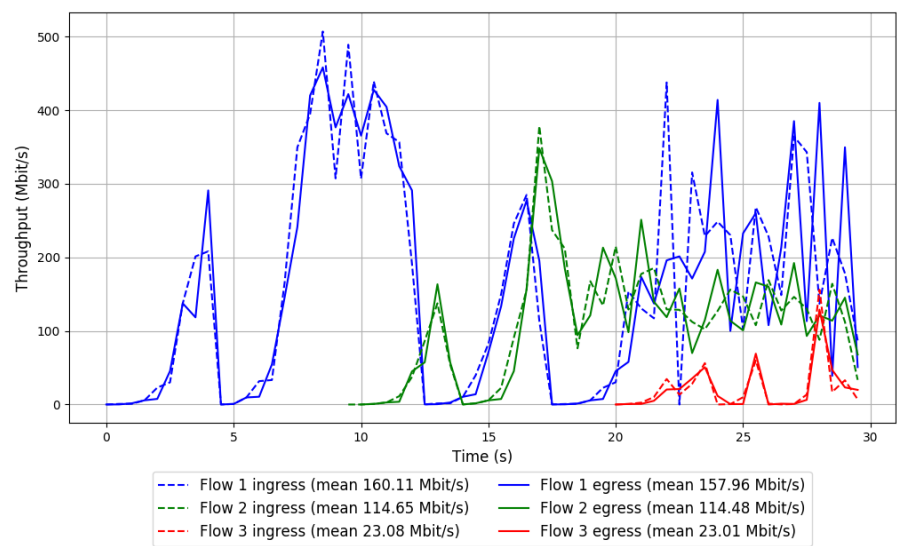
-- Flow 3:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 274.072 ms

Loss rate: 0.27%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-10-12 19:49:32

End at: 2017-10-12 19:50:02

Below is generated by plot.py at 2017-10-12 23:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.85 Mbit/s

95th percentile per-packet one-way delay: 137.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 137.756 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.89 Mbit/s

95th percentile per-packet one-way delay: 137.917 ms

Loss rate: 0.00%

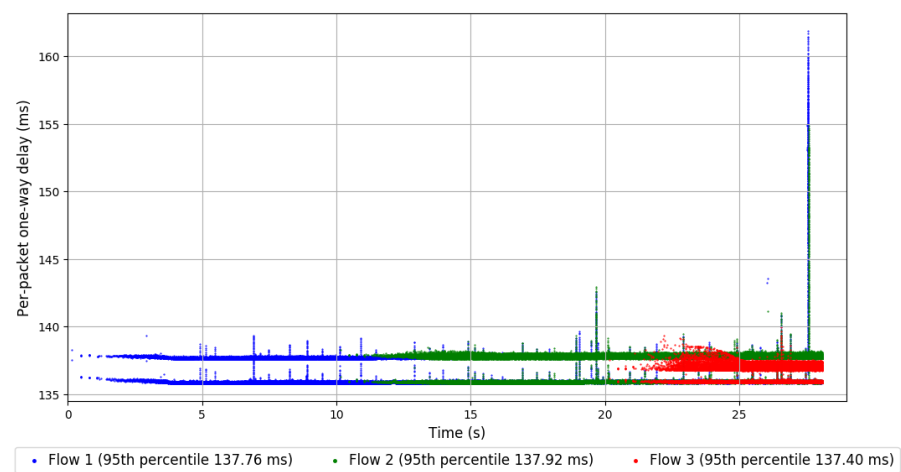
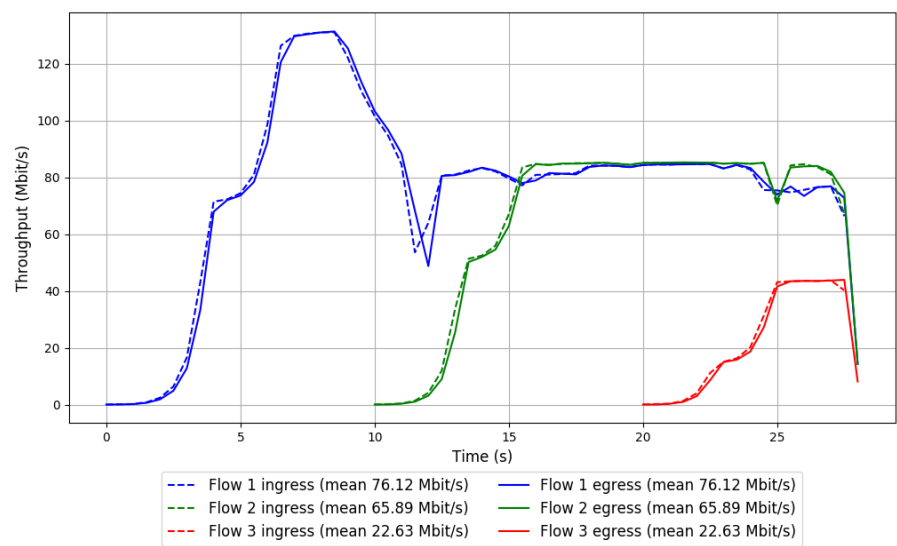
-- Flow 3:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 137.396 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-12 20:03:11

End at: 2017-10-12 20:03:41

Below is generated by plot.py at 2017-10-12 23:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.73 Mbit/s

95th percentile per-packet one-way delay: 162.412 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 162.415 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 162.407 ms

Loss rate: 0.36%

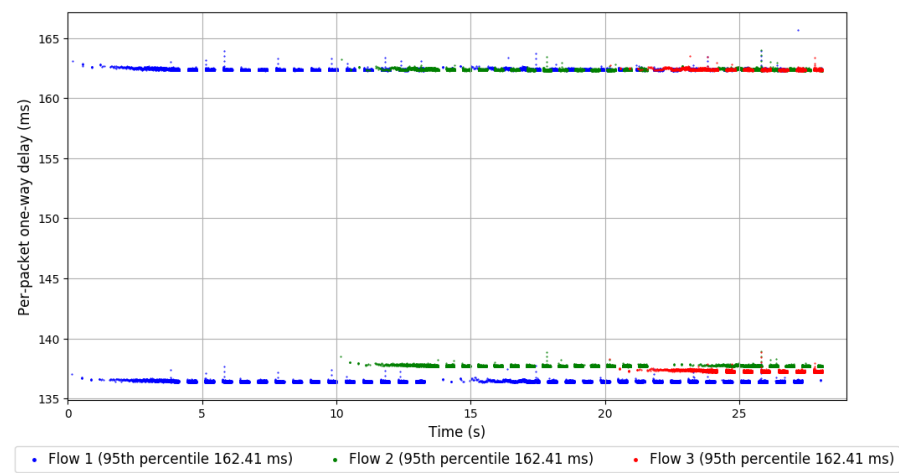
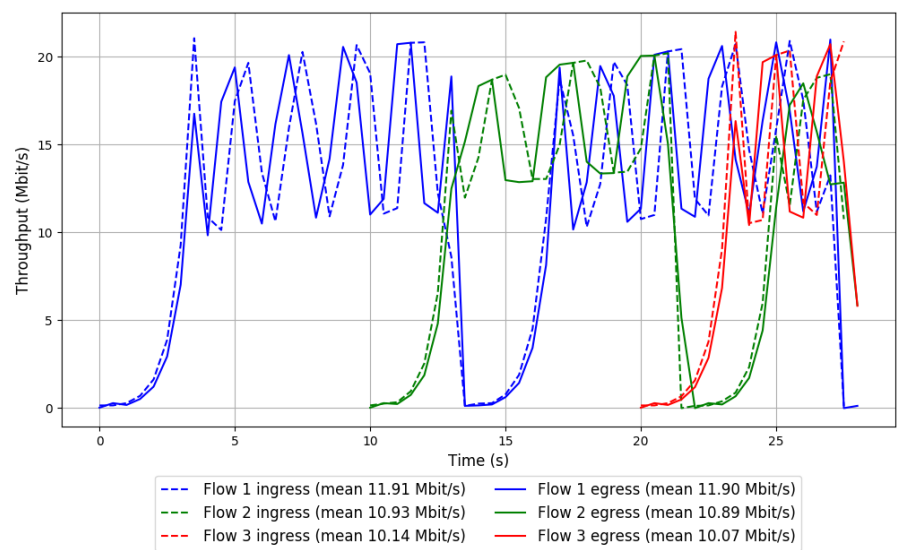
-- Flow 3:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 162.411 ms

Loss rate: 0.64%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-12 20:16:39

End at: 2017-10-12 20:17:09

Below is generated by plot.py at 2017-10-12 23:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 163.220 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 162.440 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 70.04 Mbit/s

95th percentile per-packet one-way delay: 163.235 ms

Loss rate: 0.15%

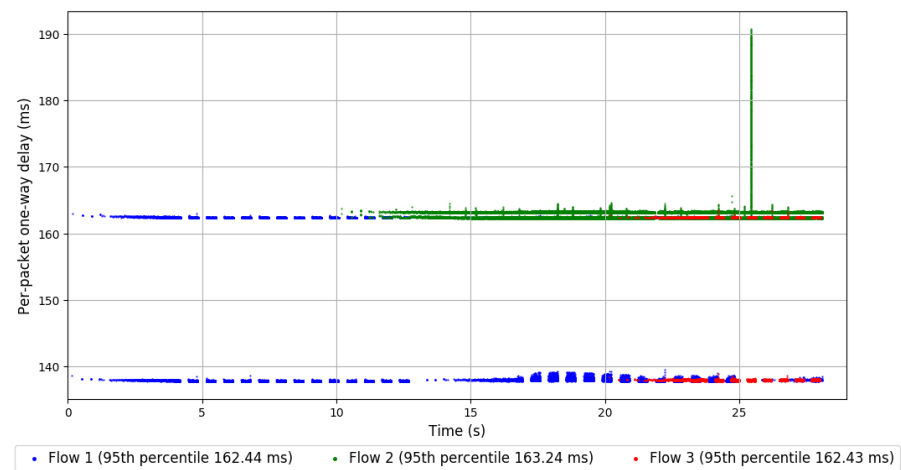
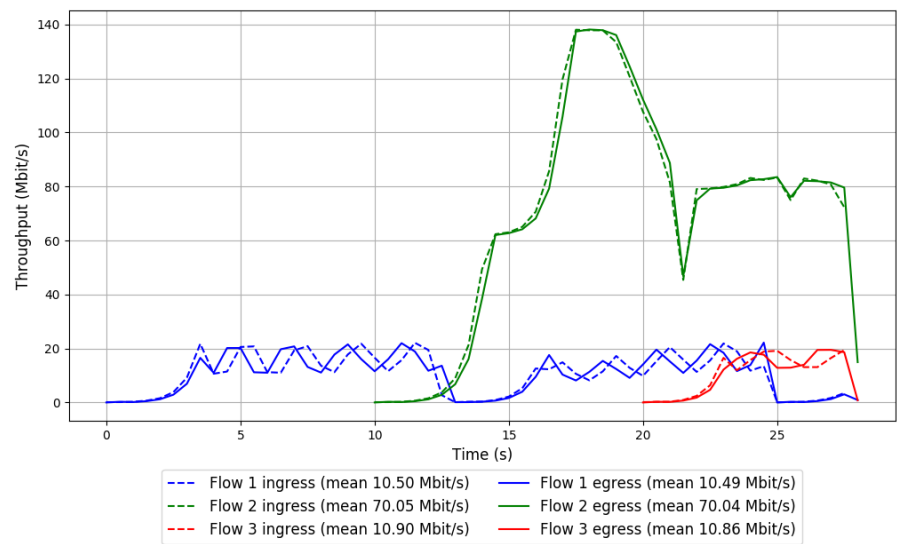
-- Flow 3:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 162.427 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-12 20:29:44

End at: 2017-10-12 20:30:14

Below is generated by plot.py at 2017-10-12 23:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 164.576 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 164.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.94 Mbit/s

95th percentile per-packet one-way delay: 164.593 ms

Loss rate: 0.17%

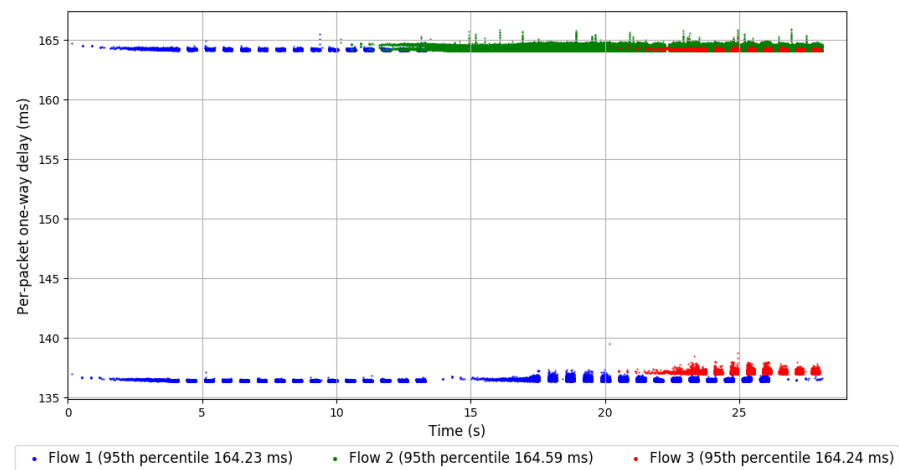
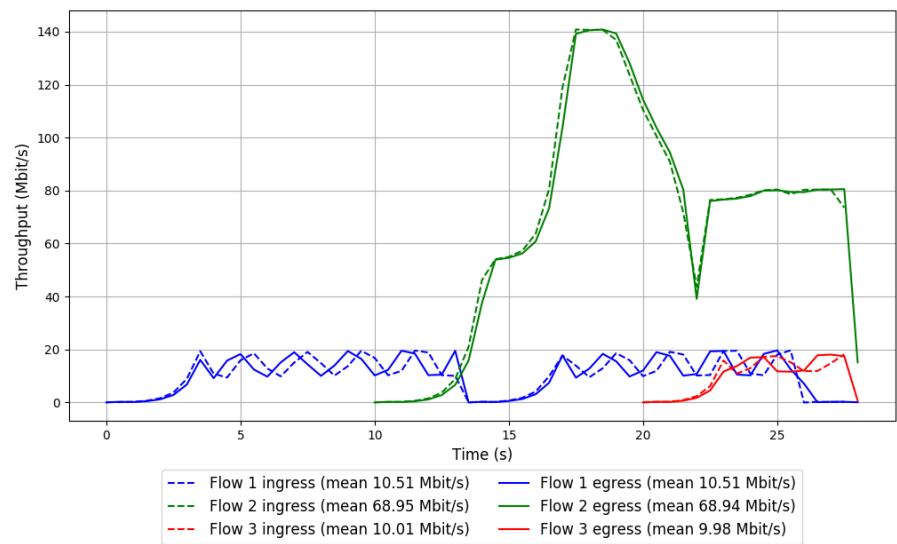
-- Flow 3:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 164.239 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

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

End at: 2017-10-12 20:43:42

Below is generated by plot.py at 2017-10-12 23:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.24 Mbit/s

95th percentile per-packet one-way delay: 164.238 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 164.230 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 164.247 ms

Loss rate: 0.00%

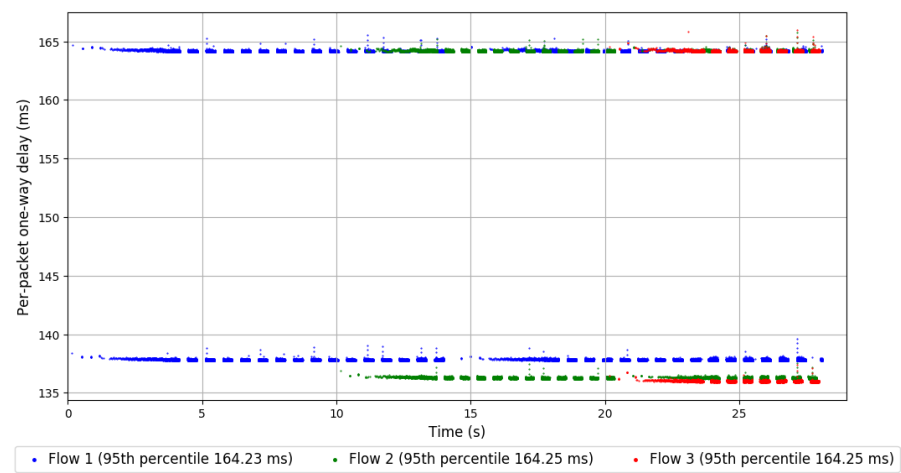
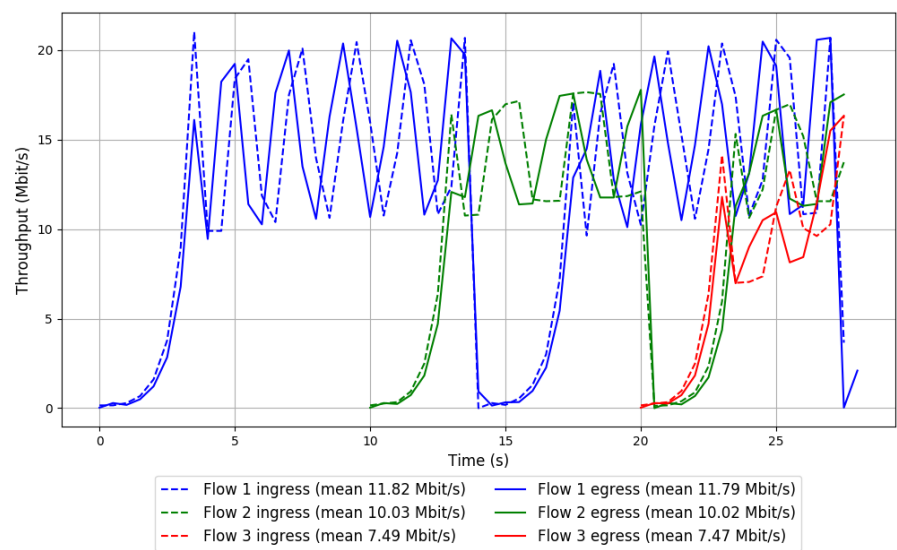
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 164.249 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-12 20:56:45

End at: 2017-10-12 20:57:15

Below is generated by plot.py at 2017-10-12 23:09:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.76 Mbit/s

95th percentile per-packet one-way delay: 164.301 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 74.69 Mbit/s

95th percentile per-packet one-way delay: 164.237 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 10.44 Mbit/s

95th percentile per-packet one-way delay: 164.261 ms

Loss rate: 0.40%

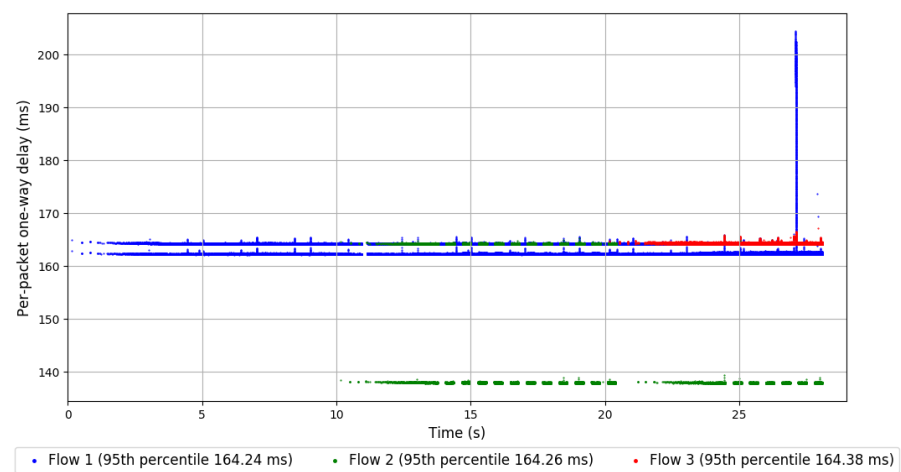
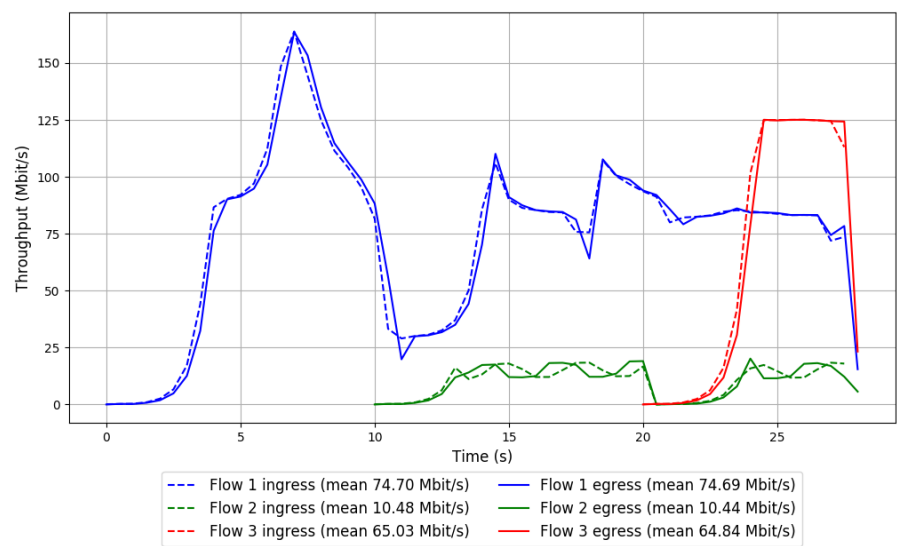
-- Flow 3:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 164.376 ms

Loss rate: 0.64%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-12 21:10:15

End at: 2017-10-12 21:10:45

Below is generated by plot.py at 2017-10-12 23:09:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 164.481 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 164.227 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 164.269 ms

Loss rate: 0.00%

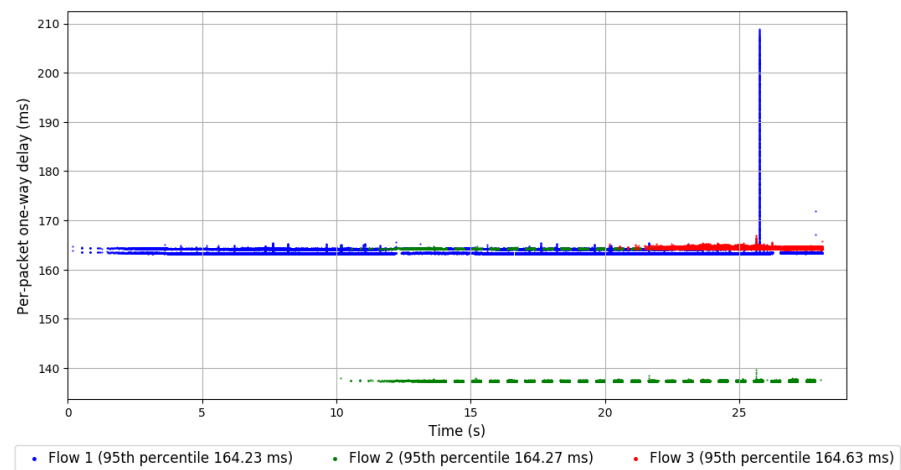
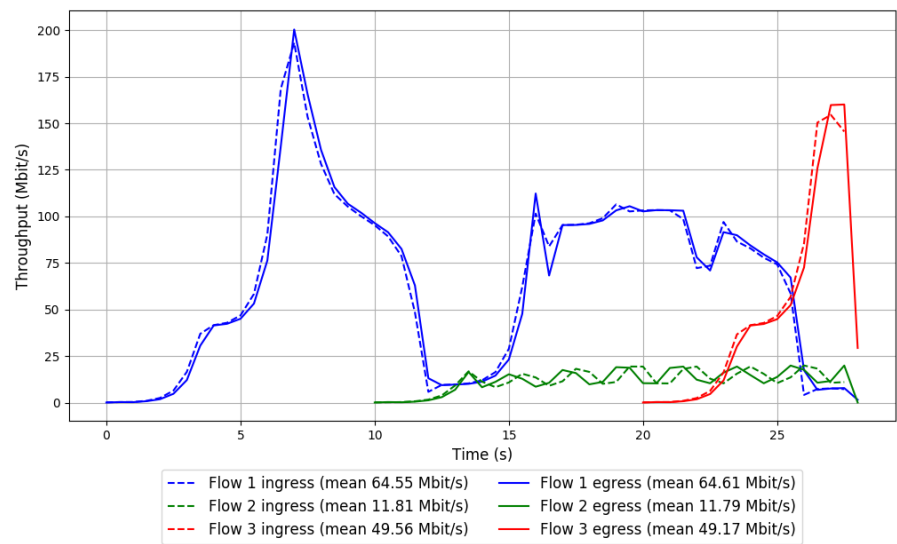
-- Flow 3:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 164.627 ms

Loss rate: 1.11%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-12 21:24:01

End at: 2017-10-12 21:24:31

Below is generated by plot.py at 2017-10-12 23:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.61 Mbit/s

95th percentile per-packet one-way delay: 164.306 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 164.318 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 102.88 Mbit/s

95th percentile per-packet one-way delay: 164.302 ms

Loss rate: 0.22%

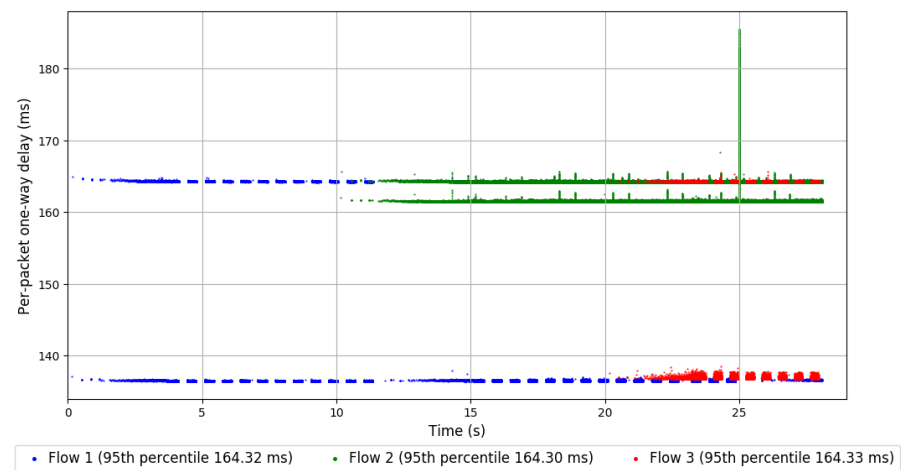
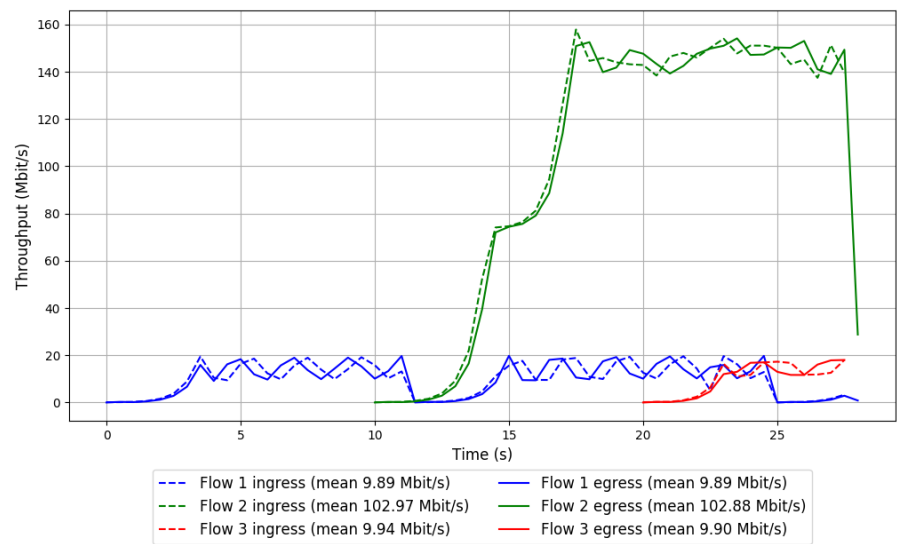
-- Flow 3:

Average throughput: 9.90 Mbit/s

95th percentile per-packet one-way delay: 164.330 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-12 21:37:58

End at: 2017-10-12 21:38:28

Below is generated by plot.py at 2017-10-12 23:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 164.591 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 164.310 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 164.625 ms

Loss rate: 0.19%

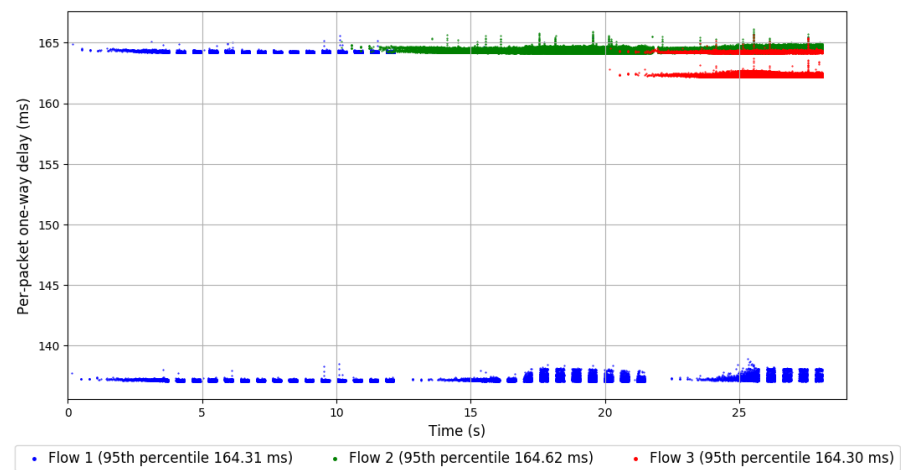
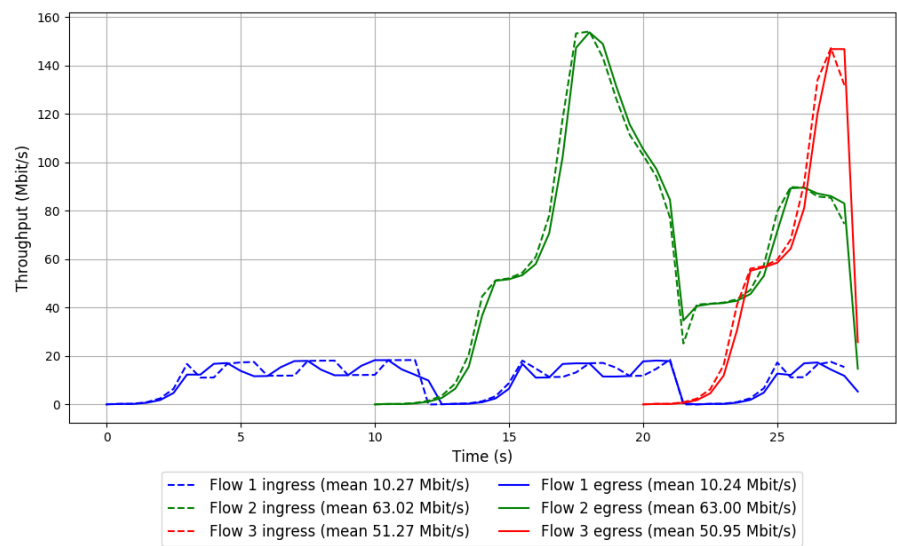
-- Flow 3:

Average throughput: 50.95 Mbit/s

95th percentile per-packet one-way delay: 164.300 ms

Loss rate: 0.95%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-12 21:52:04

End at: 2017-10-12 21:52:34

Below is generated by plot.py at 2017-10-12 23:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 164.313 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 164.581 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 164.307 ms

Loss rate: 0.39%

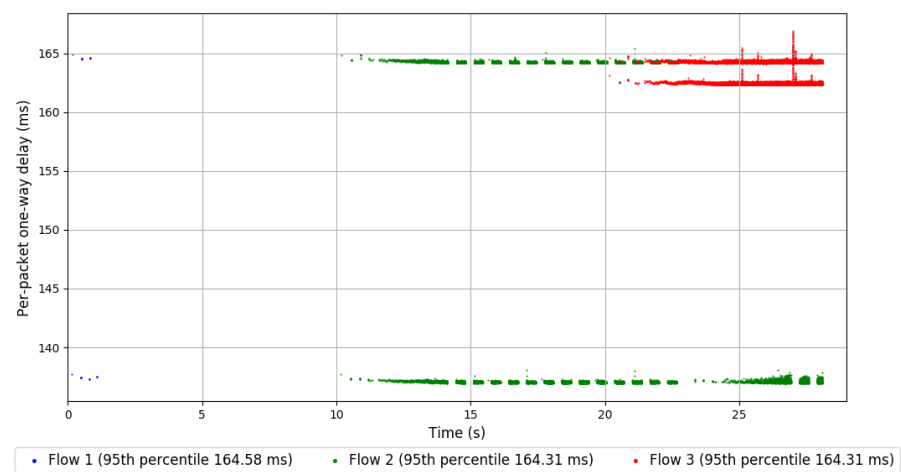
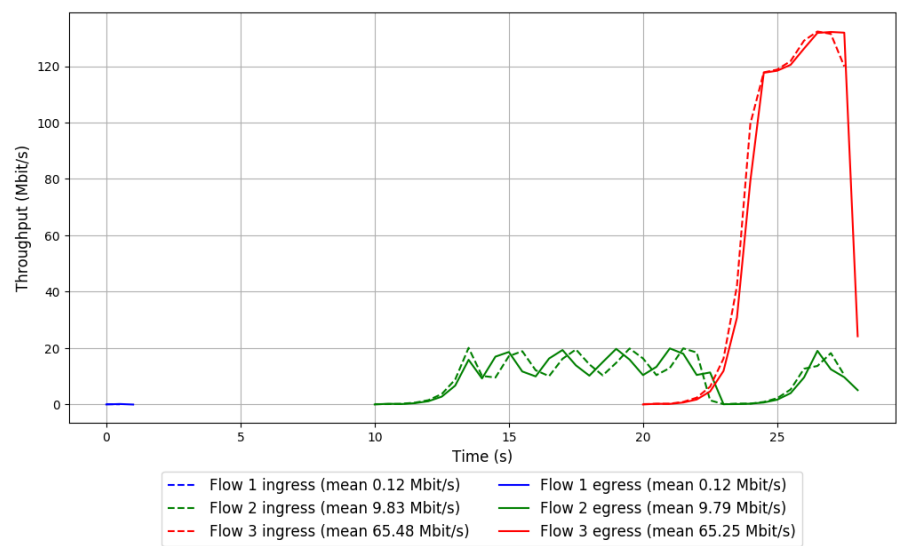
-- Flow 3:

Average throughput: 65.25 Mbit/s

95th percentile per-packet one-way delay: 164.315 ms

Loss rate: 0.67%

Run 10: Report of Copa — Data Link

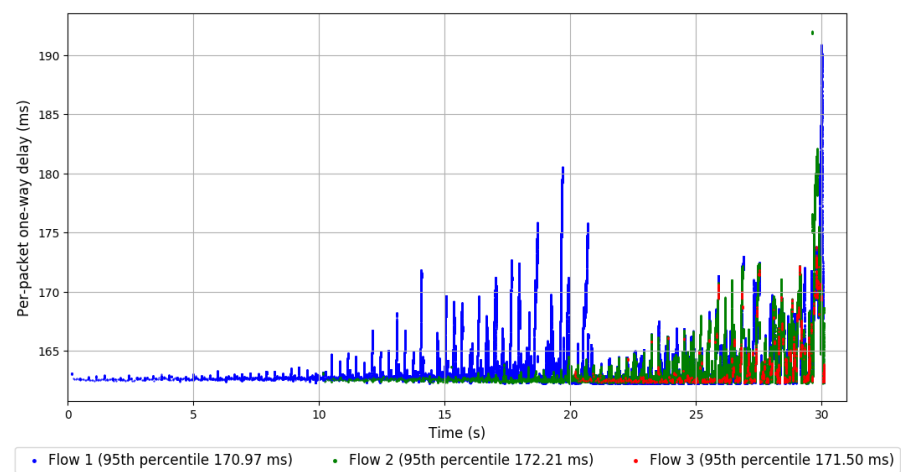
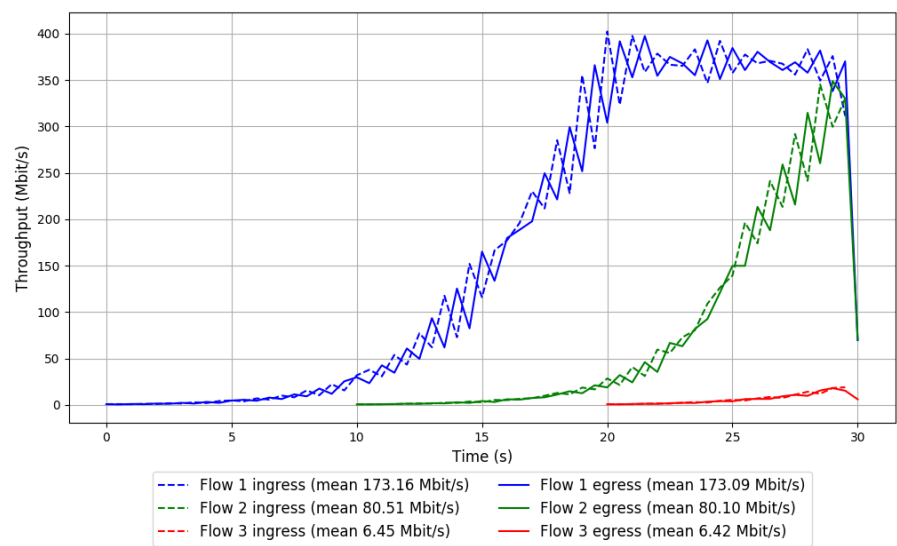


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-12 19:59:57
End at: 2017-10-12 20:00:27

# Below is generated by plot.py at 2017-10-12 23:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.54 Mbit/s
95th percentile per-packet one-way delay: 171.333 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 173.09 Mbit/s
95th percentile per-packet one-way delay: 170.972 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 172.210 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 6.42 Mbit/s
95th percentile per-packet one-way delay: 171.496 ms
Loss rate: 0.39%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-12 20:13:33

End at: 2017-10-12 20:14:03

Below is generated by plot.py at 2017-10-12 23:11:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.49 Mbit/s

95th percentile per-packet one-way delay: 172.202 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 170.94 Mbit/s

95th percentile per-packet one-way delay: 171.759 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 173.821 ms

Loss rate: 0.92%

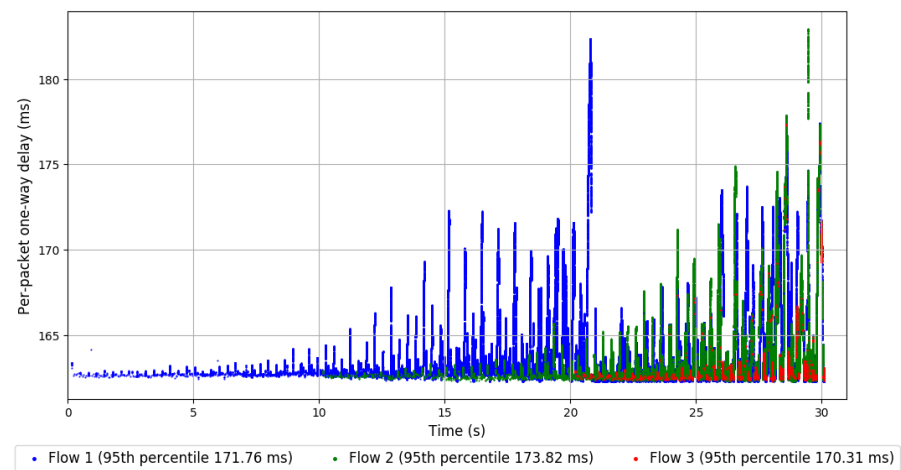
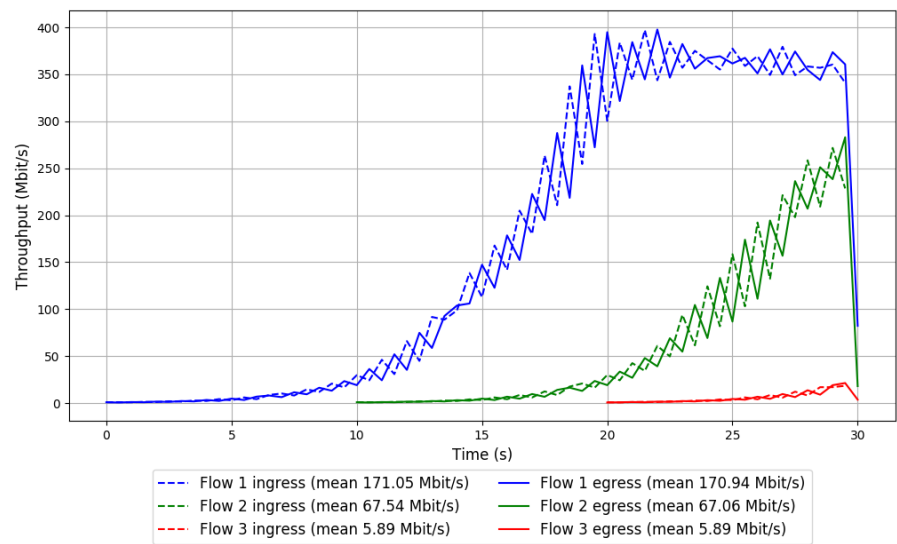
-- Flow 3:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 170.315 ms

Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-12 20:26:34

End at: 2017-10-12 20:27:04

Below is generated by plot.py at 2017-10-12 23:12:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.83 Mbit/s

95th percentile per-packet one-way delay: 177.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 198.61 Mbit/s

95th percentile per-packet one-way delay: 175.857 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 94.86 Mbit/s

95th percentile per-packet one-way delay: 179.329 ms

Loss rate: 0.01%

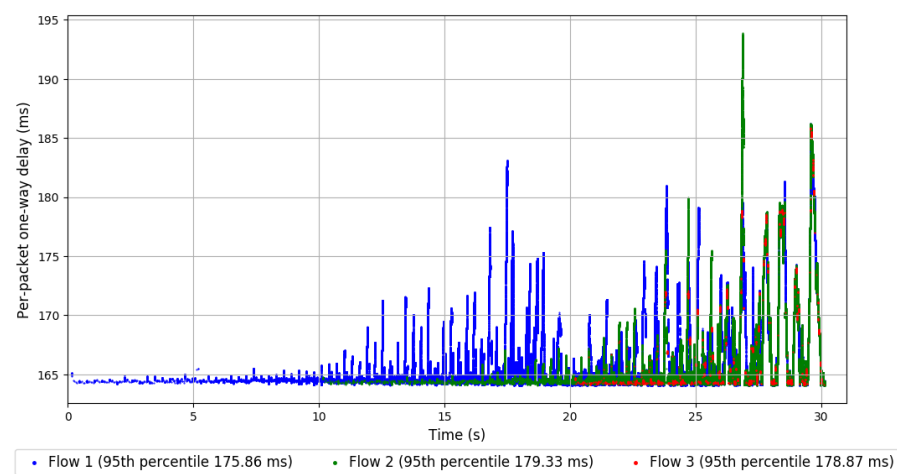
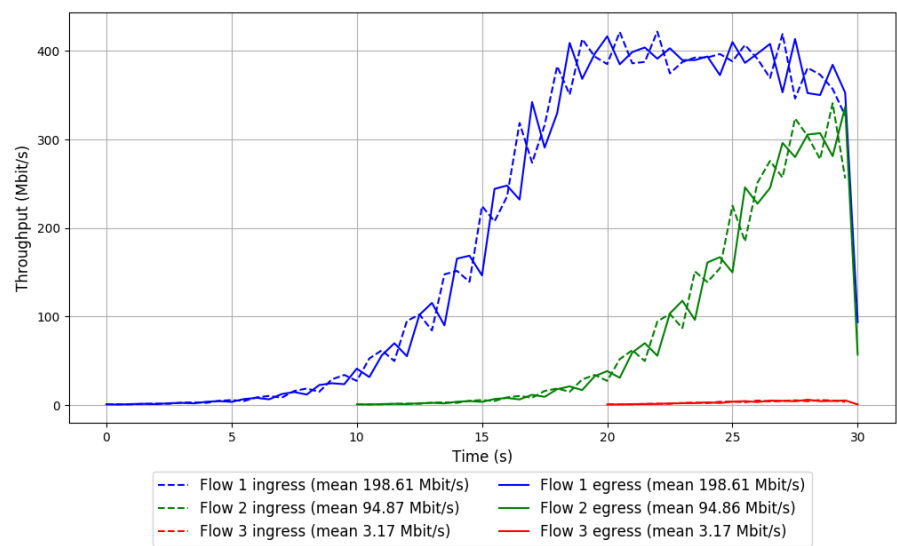
-- Flow 3:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 178.867 ms

Loss rate: 0.15%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-12 20:40:11

End at: 2017-10-12 20:40:41

Below is generated by plot.py at 2017-10-12 23:12:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.46 Mbit/s

95th percentile per-packet one-way delay: 173.017 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 169.69 Mbit/s

95th percentile per-packet one-way delay: 172.923 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 173.209 ms

Loss rate: 0.32%

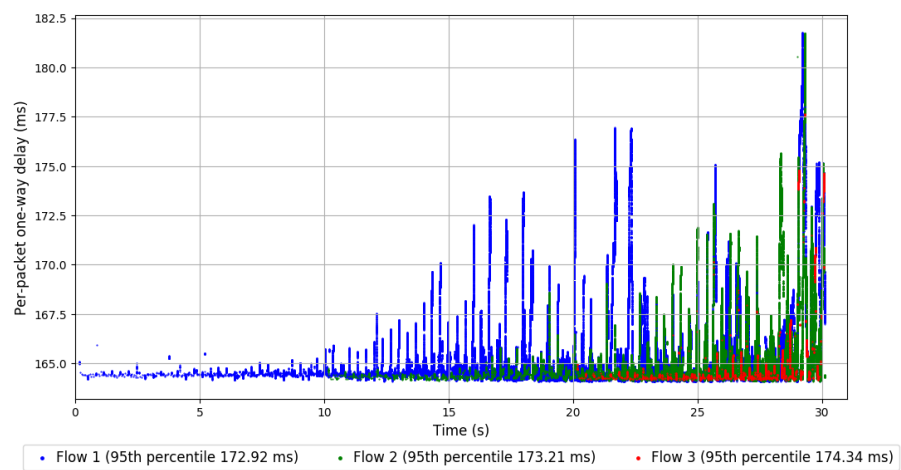
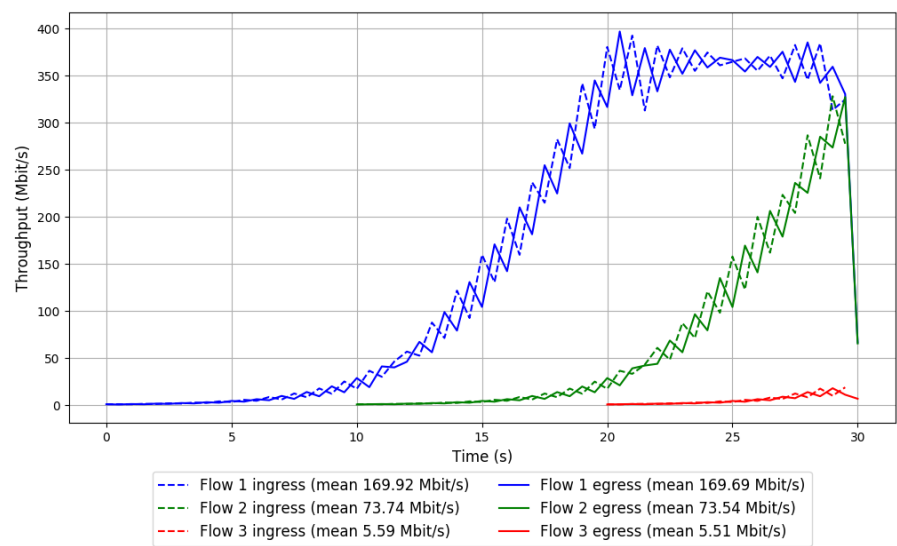
-- Flow 3:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 174.338 ms

Loss rate: 1.79%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-12 20:53:29

End at: 2017-10-12 20:53:59

Below is generated by plot.py at 2017-10-12 23:13:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.79 Mbit/s

95th percentile per-packet one-way delay: 175.456 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 198.69 Mbit/s

95th percentile per-packet one-way delay: 176.110 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 173.747 ms

Loss rate: 0.00%

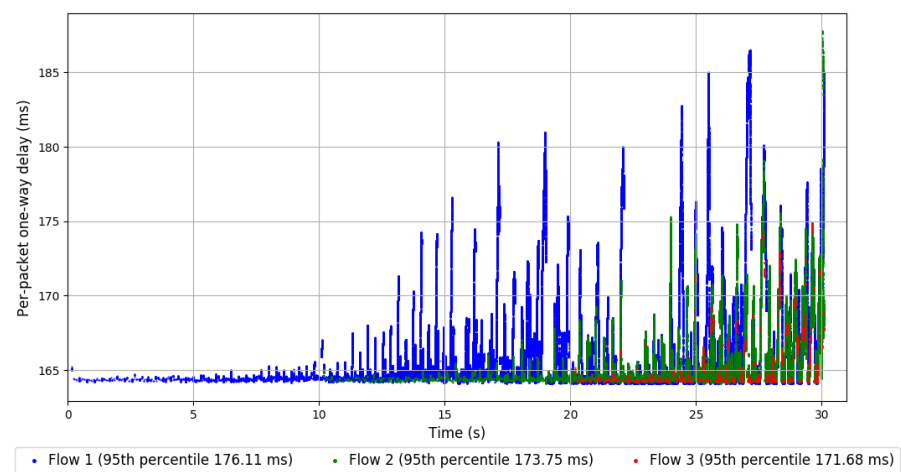
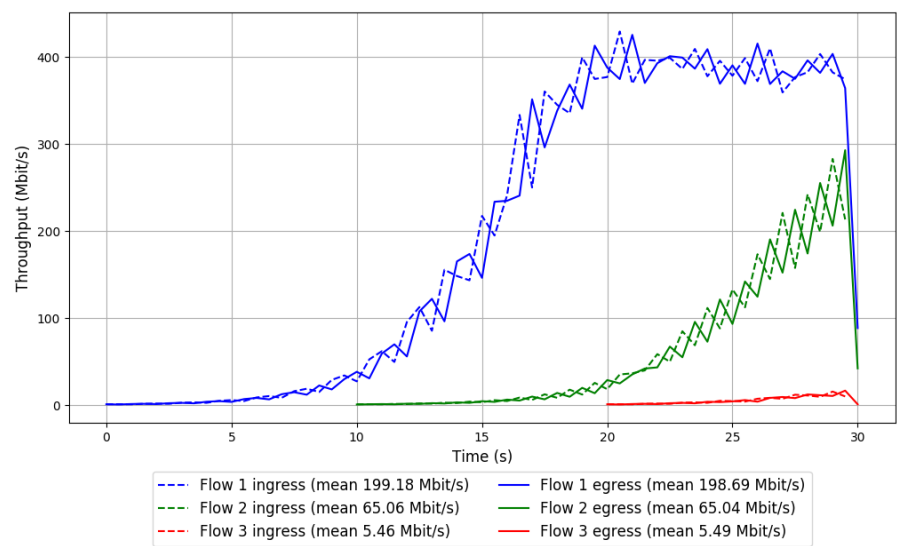
-- Flow 3:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 171.675 ms

Loss rate: 0.02%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-12 21:06:54

End at: 2017-10-12 21:07:24

Below is generated by plot.py at 2017-10-12 23:13:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.31 Mbit/s

95th percentile per-packet one-way delay: 172.901 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 173.04 Mbit/s

95th percentile per-packet one-way delay: 172.316 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 175.321 ms

Loss rate: 1.06%

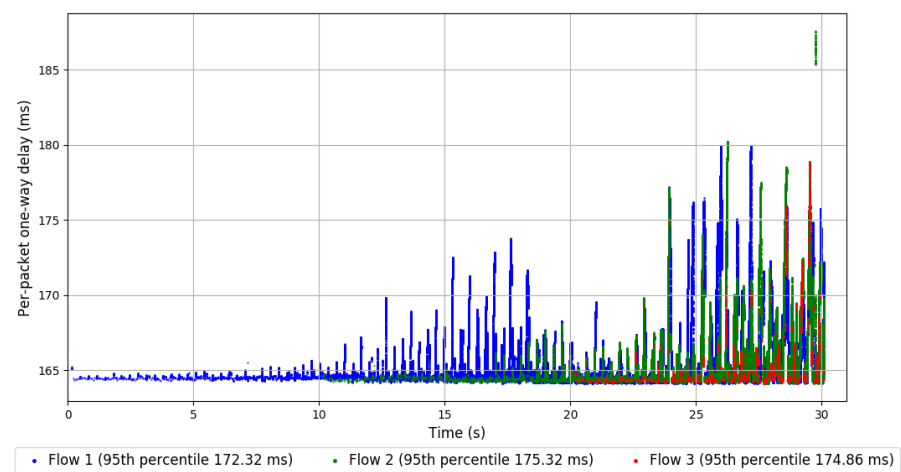
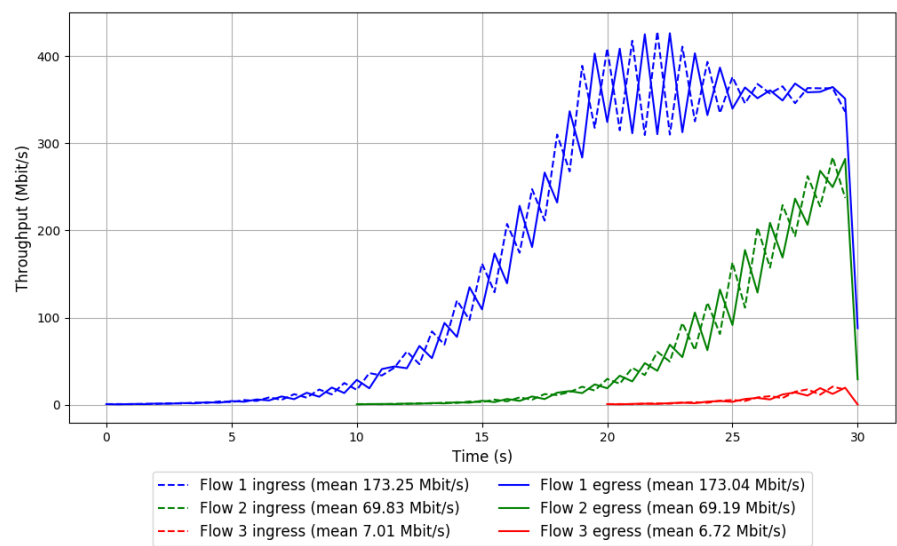
-- Flow 3:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 174.857 ms

Loss rate: 4.80%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-12 21:20:37

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

Below is generated by plot.py at 2017-10-12 23:14:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.84 Mbit/s

95th percentile per-packet one-way delay: 174.380 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 205.00 Mbit/s

95th percentile per-packet one-way delay: 172.592 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 179.413 ms

Loss rate: 0.89%

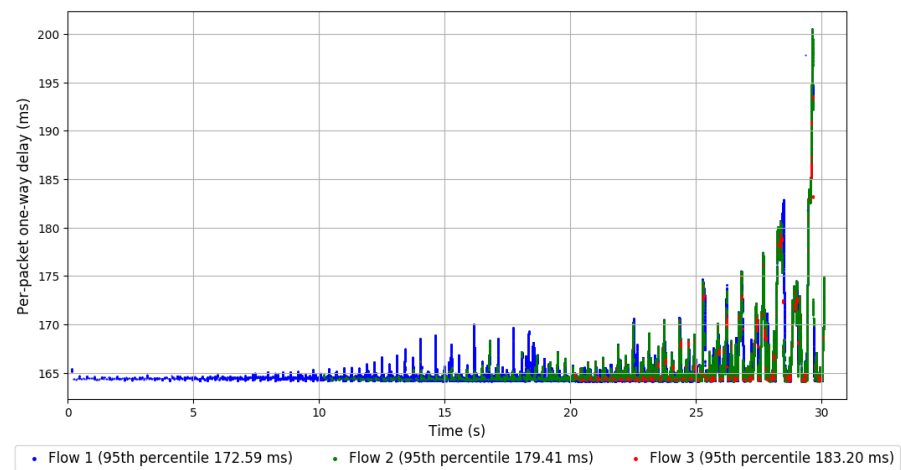
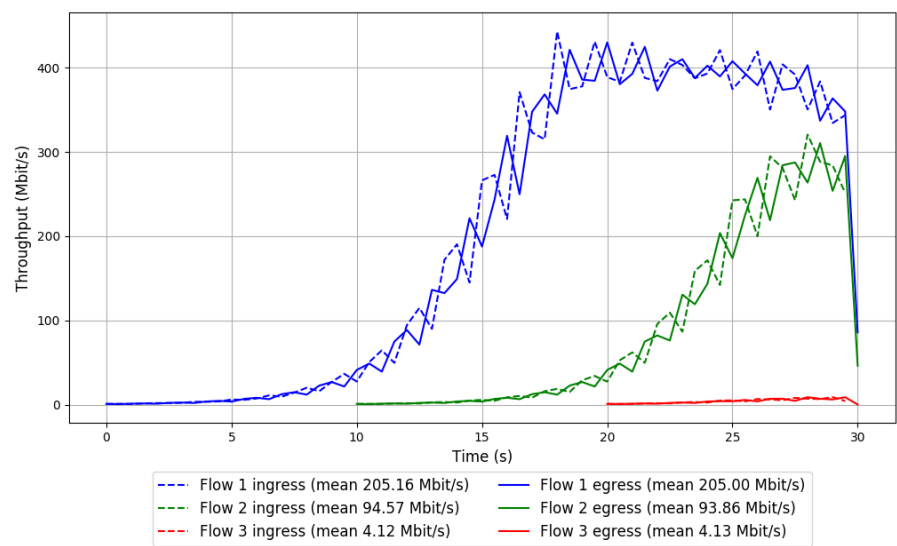
-- Flow 3:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 183.201 ms

Loss rate: 0.03%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-12 21:34:26

End at: 2017-10-12 21:34:56

Below is generated by plot.py at 2017-10-12 23:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.64 Mbit/s

95th percentile per-packet one-way delay: 174.120 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 202.26 Mbit/s

95th percentile per-packet one-way delay: 173.234 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 175.813 ms

Loss rate: 0.68%

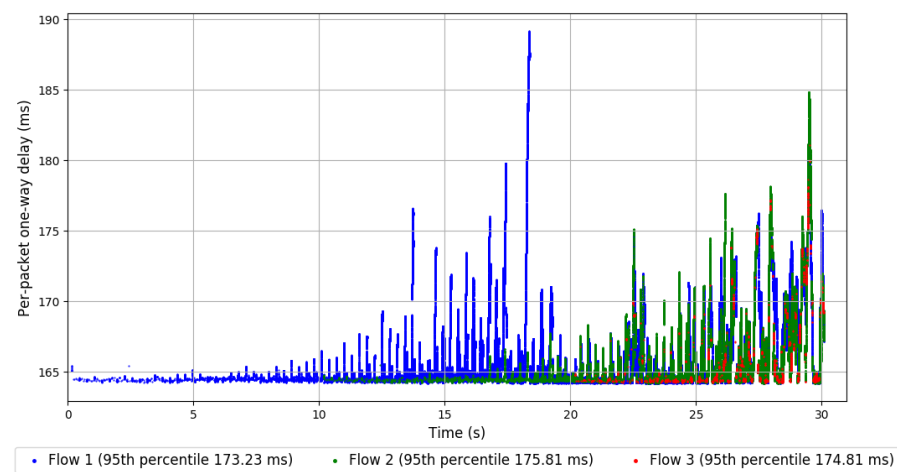
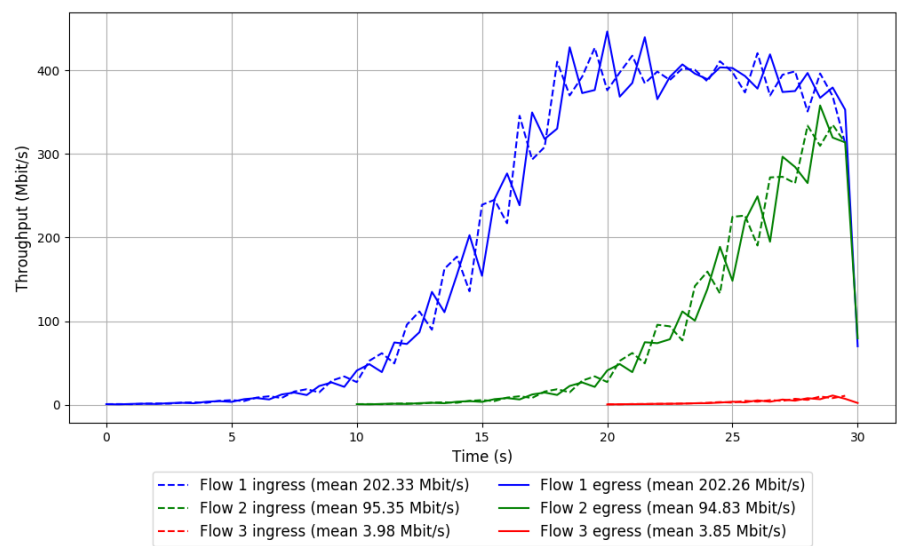
-- Flow 3:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 174.807 ms

Loss rate: 3.70%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-12 21:48:59

End at: 2017-10-12 21:49:29

Below is generated by plot.py at 2017-10-12 23:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.10 Mbit/s

95th percentile per-packet one-way delay: 171.154 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 173.19 Mbit/s

95th percentile per-packet one-way delay: 170.573 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 67.52 Mbit/s

95th percentile per-packet one-way delay: 172.431 ms

Loss rate: 1.01%

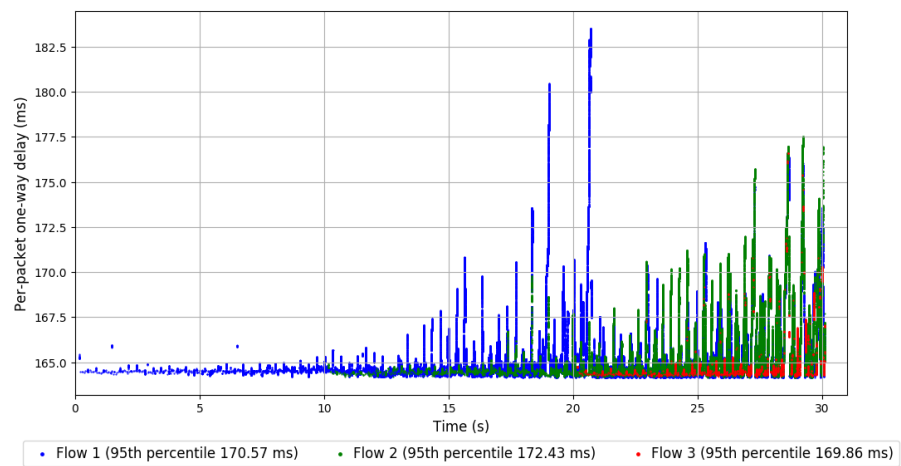
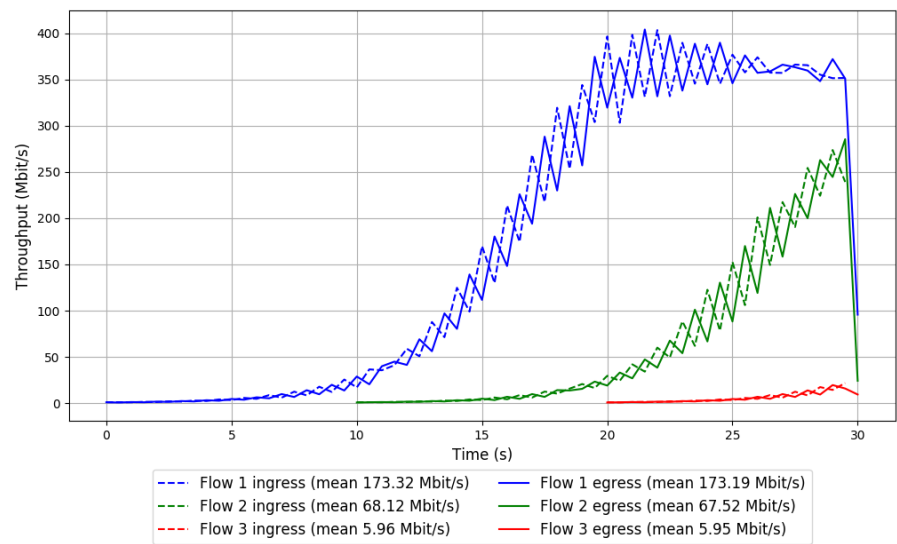
-- Flow 3:

Average throughput: 5.95 Mbit/s

95th percentile per-packet one-way delay: 169.856 ms

Loss rate: 0.18%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-12 22:02:46

End at: 2017-10-12 22:03:16

Below is generated by plot.py at 2017-10-12 23:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.96 Mbit/s

95th percentile per-packet one-way delay: 149.963 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.02 Mbit/s

95th percentile per-packet one-way delay: 149.531 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.78 Mbit/s

95th percentile per-packet one-way delay: 151.002 ms

Loss rate: 0.00%

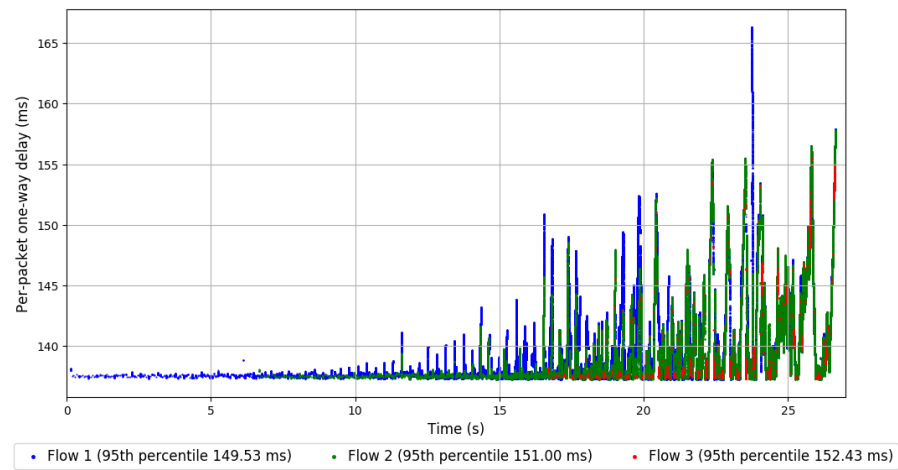
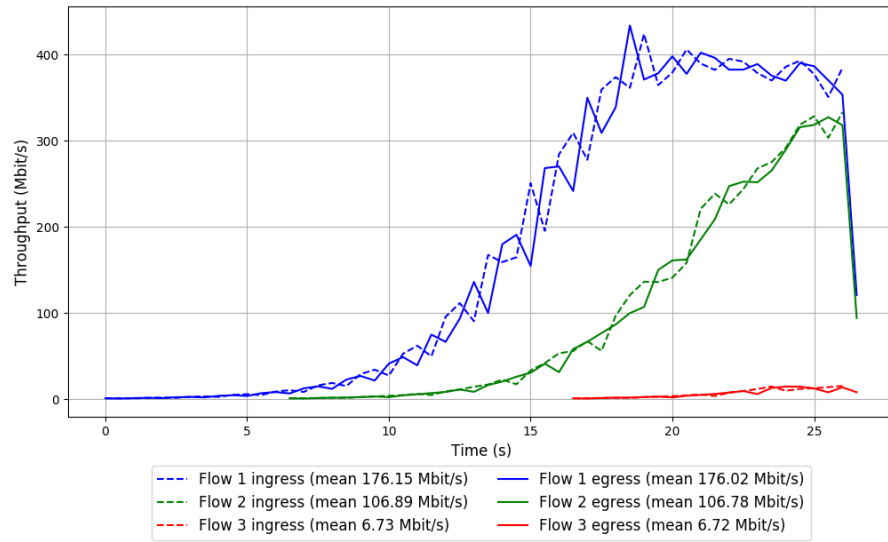
-- Flow 3:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 152.425 ms

Loss rate: 0.00%

Run 10: Report of CalibratedKoho — Data Link

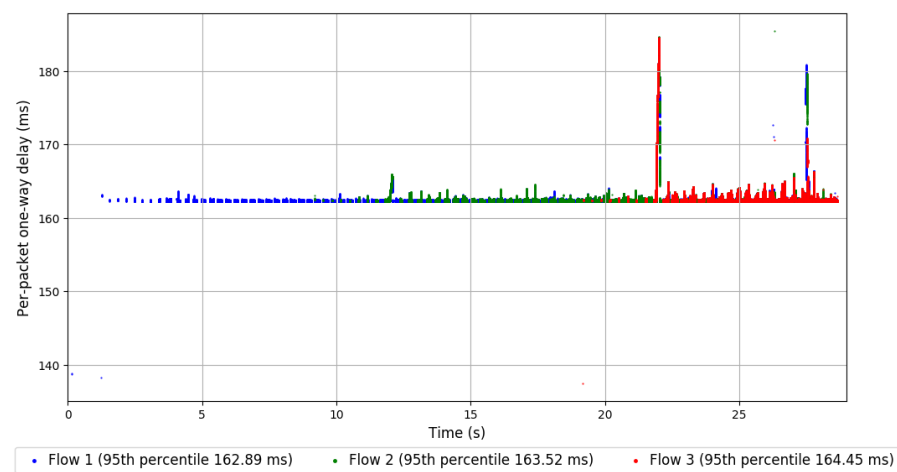
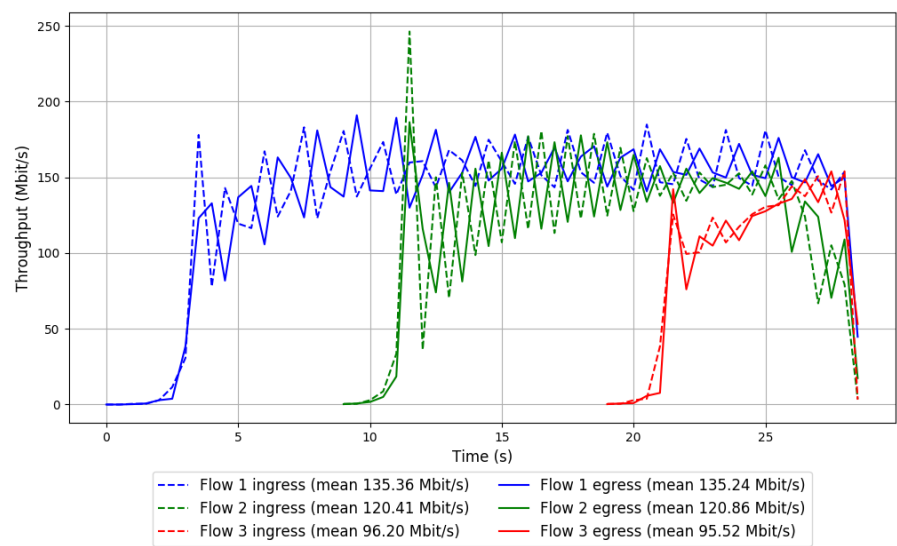


```
Run 1: Statistics of Indigo

Start at: 2017-10-12 19:54:19
End at: 2017-10-12 19:54:49

# Below is generated by plot.py at 2017-10-12 23:16:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.21 Mbit/s
95th percentile per-packet one-way delay: 163.306 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 135.24 Mbit/s
95th percentile per-packet one-way delay: 162.890 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.86 Mbit/s
95th percentile per-packet one-way delay: 163.520 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 164.452 ms
Loss rate: 0.68%
```

Run 1: Report of Indigo — Data Link

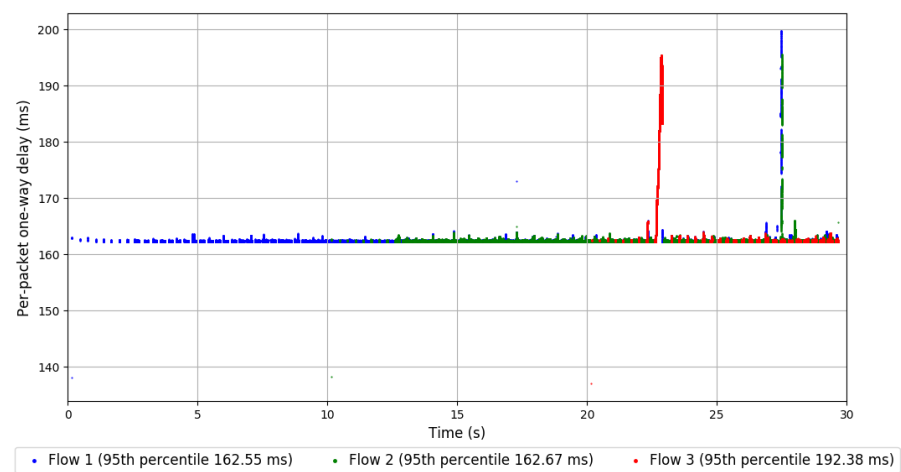
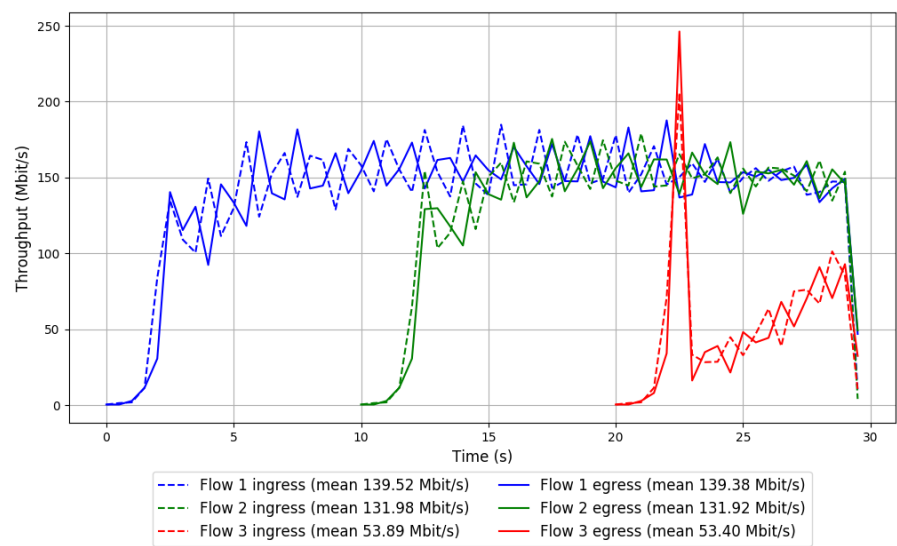


```
Run 2: Statistics of Indigo

Start at: 2017-10-12 20:07:50
End at: 2017-10-12 20:08:20

# Below is generated by plot.py at 2017-10-12 23:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.78 Mbit/s
95th percentile per-packet one-way delay: 162.732 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 139.38 Mbit/s
95th percentile per-packet one-way delay: 162.550 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 131.92 Mbit/s
95th percentile per-packet one-way delay: 162.670 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 192.375 ms
Loss rate: 0.91%
```

Run 2: Report of Indigo — Data Link

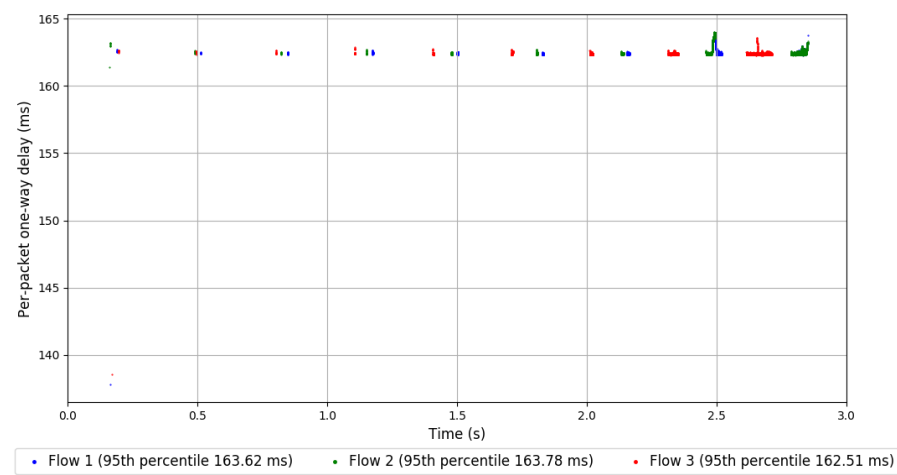
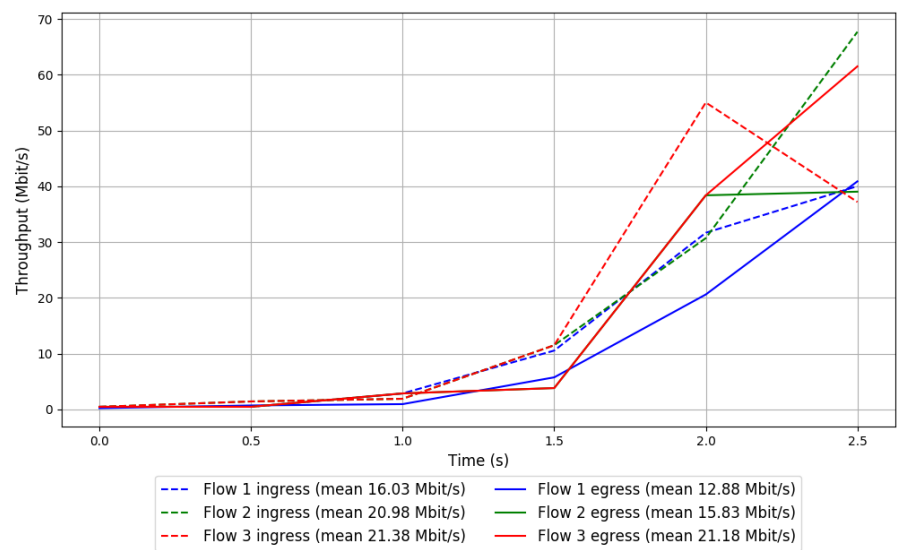


Run 3: Statistics of Indigo

Start at: 2017-10-12 20:21:15

End at: 2017-10-12 20:21:45

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

End at: 2017-10-12 20:34:48

Below is generated by plot.py at 2017-10-12 23:17:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.51 Mbit/s

95th percentile per-packet one-way delay: 165.139 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 137.01 Mbit/s

95th percentile per-packet one-way delay: 164.871 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 129.67 Mbit/s

95th percentile per-packet one-way delay: 165.198 ms

Loss rate: 0.22%

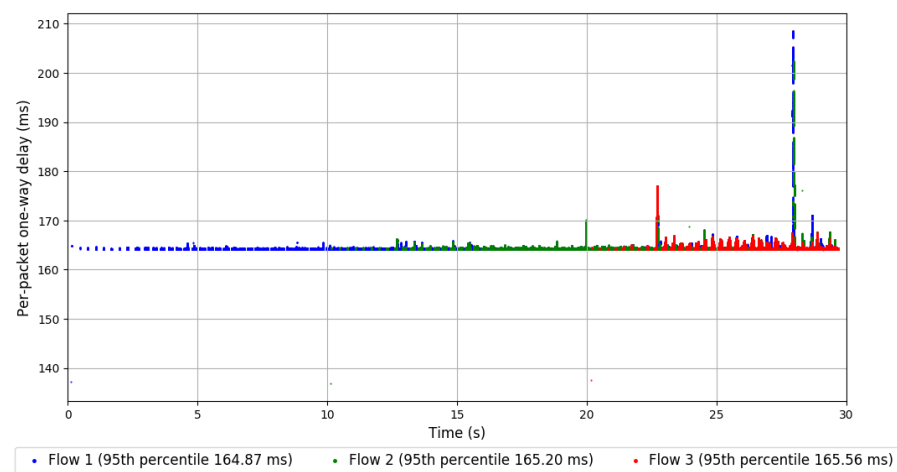
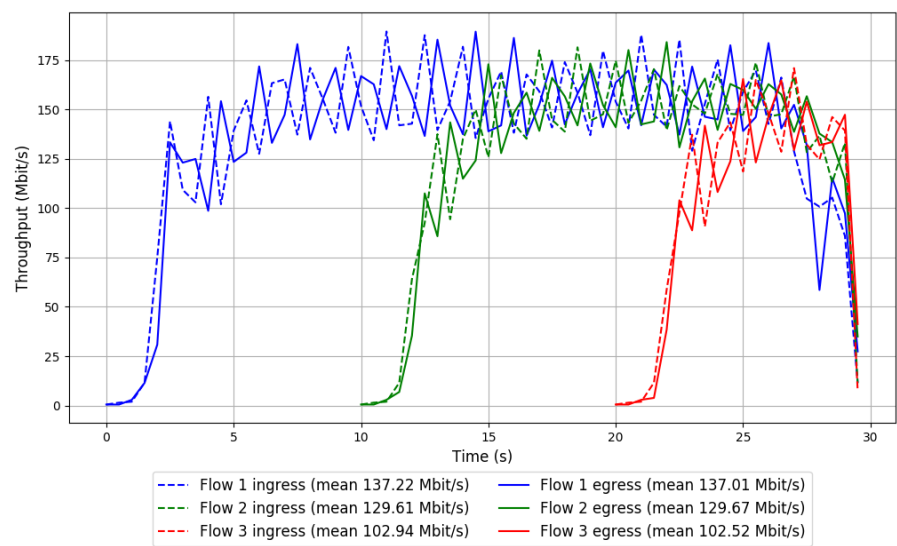
-- Flow 3:

Average throughput: 102.52 Mbit/s

95th percentile per-packet one-way delay: 165.557 ms

Loss rate: 0.40%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-12 20:47:50

End at: 2017-10-12 20:48:20

Below is generated by plot.py at 2017-10-12 23:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.44 Mbit/s

95th percentile per-packet one-way delay: 166.129 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 141.22 Mbit/s

95th percentile per-packet one-way delay: 165.368 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.86 Mbit/s

95th percentile per-packet one-way delay: 166.421 ms

Loss rate: 0.21%

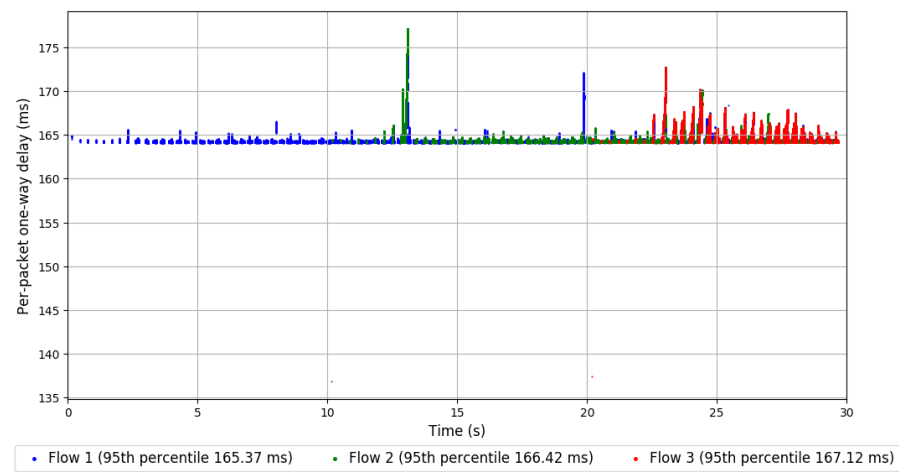
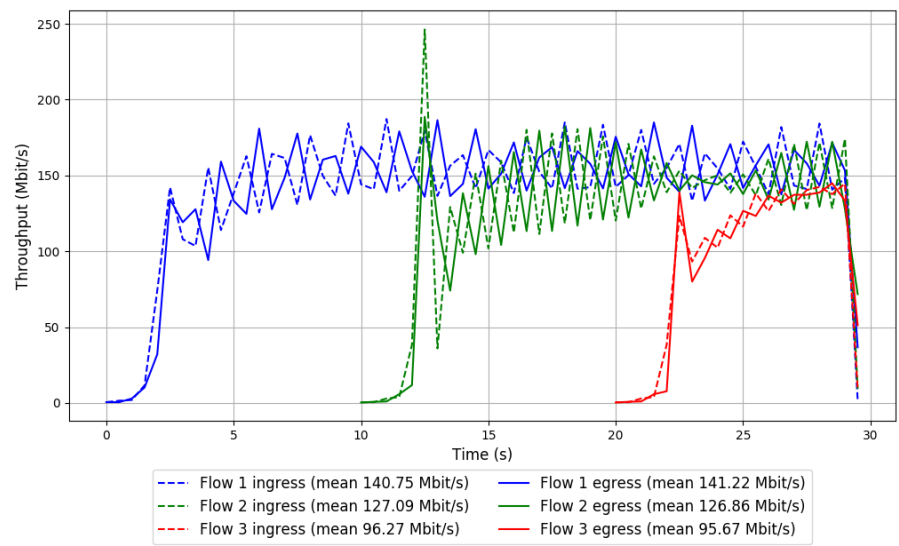
-- Flow 3:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 167.124 ms

Loss rate: 0.61%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-12 21:01:15

End at: 2017-10-12 21:01:45

Below is generated by plot.py at 2017-10-12 23:17:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.85 Mbit/s

95th percentile per-packet one-way delay: 164.884 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 133.73 Mbit/s

95th percentile per-packet one-way delay: 164.644 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 119.23 Mbit/s

95th percentile per-packet one-way delay: 164.775 ms

Loss rate: 0.15%

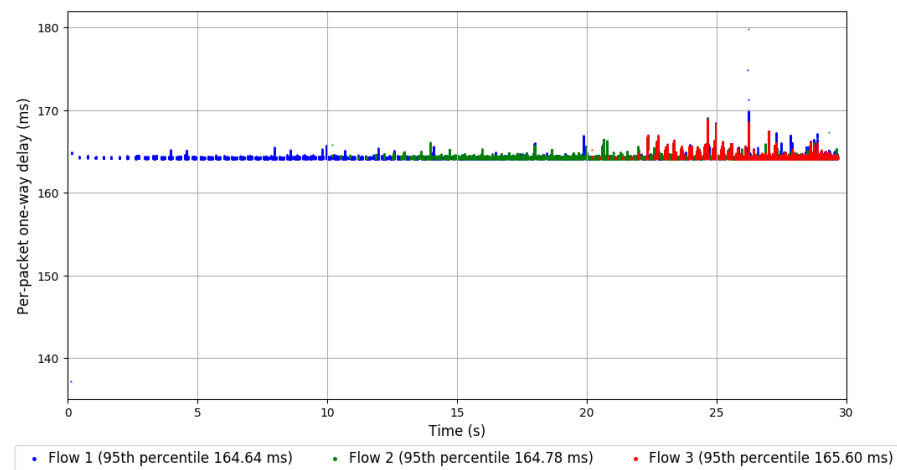
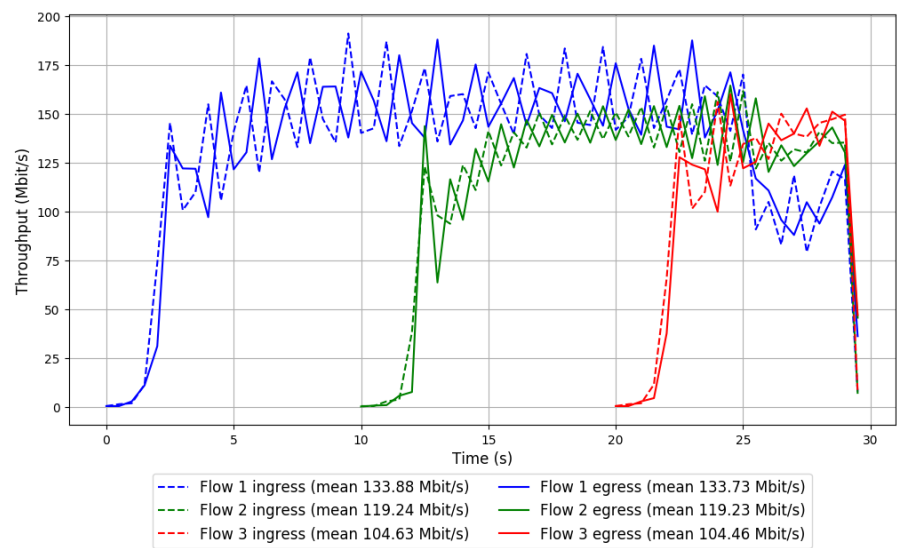
-- Flow 3:

Average throughput: 104.46 Mbit/s

95th percentile per-packet one-way delay: 165.597 ms

Loss rate: 0.44%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-12 21:14:47

End at: 2017-10-12 21:15:17

Below is generated by plot.py at 2017-10-12 23:17:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.61 Mbit/s

95th percentile per-packet one-way delay: 165.323 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 126.29 Mbit/s

95th percentile per-packet one-way delay: 165.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.95 Mbit/s

95th percentile per-packet one-way delay: 165.334 ms

Loss rate: 0.18%

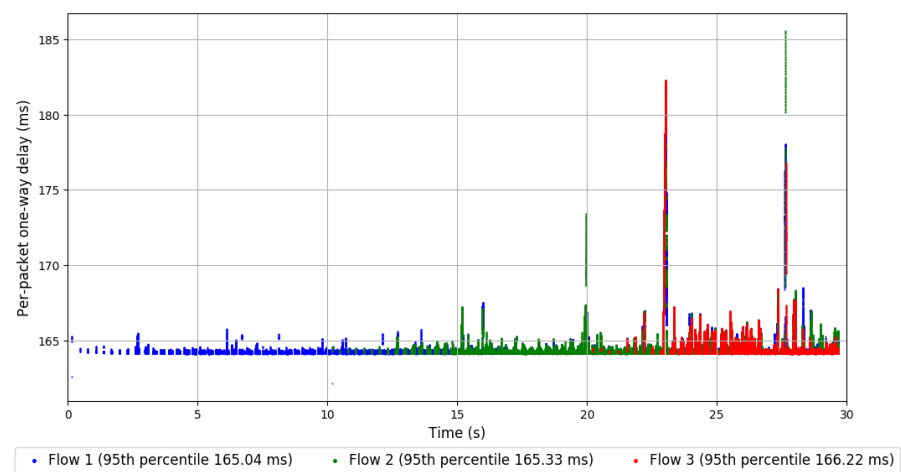
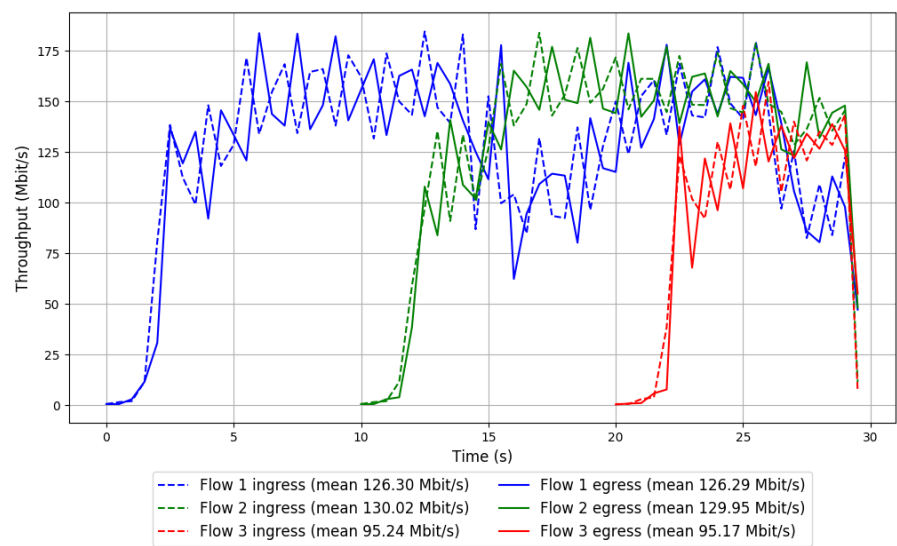
-- Flow 3:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 166.223 ms

Loss rate: 0.28%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-12 21:28:36

End at: 2017-10-12 21:29:06

Below is generated by plot.py at 2017-10-12 23:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.16 Mbit/s

95th percentile per-packet one-way delay: 165.321 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 126.35 Mbit/s

95th percentile per-packet one-way delay: 164.861 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 121.06 Mbit/s

95th percentile per-packet one-way delay: 166.035 ms

Loss rate: 0.09%

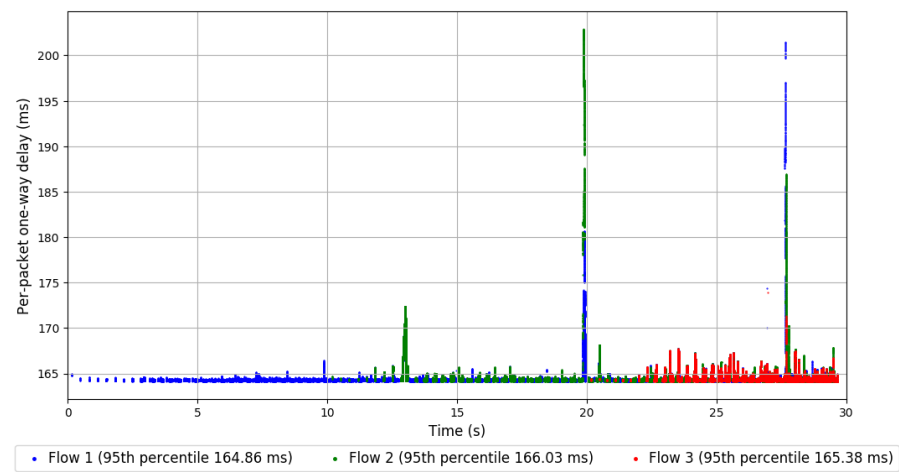
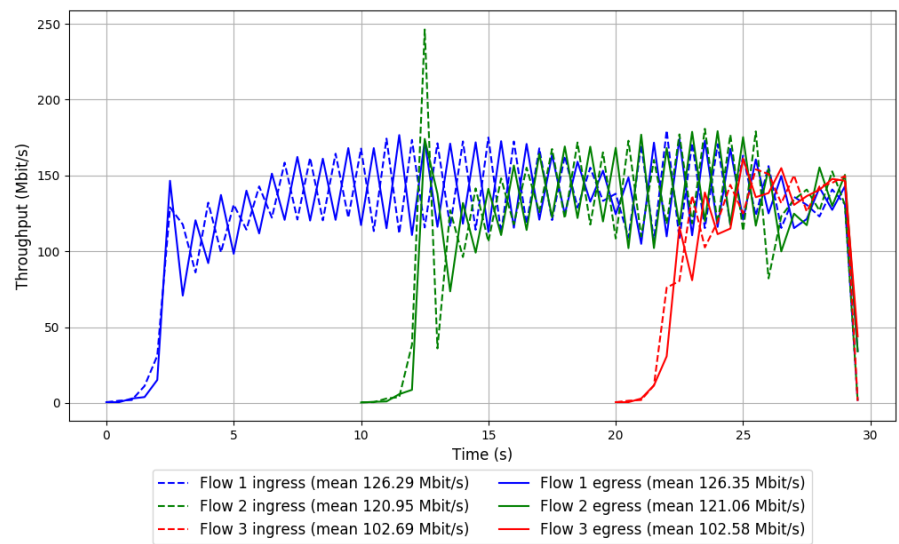
-- Flow 3:

Average throughput: 102.58 Mbit/s

95th percentile per-packet one-way delay: 165.379 ms

Loss rate: 0.38%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-12 21:42:43

End at: 2017-10-12 21:43:13

Below is generated by plot.py at 2017-10-12 23:18:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.94 Mbit/s

95th percentile per-packet one-way delay: 165.630 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 131.83 Mbit/s

95th percentile per-packet one-way delay: 165.212 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 120.63 Mbit/s

95th percentile per-packet one-way delay: 165.621 ms

Loss rate: 0.05%

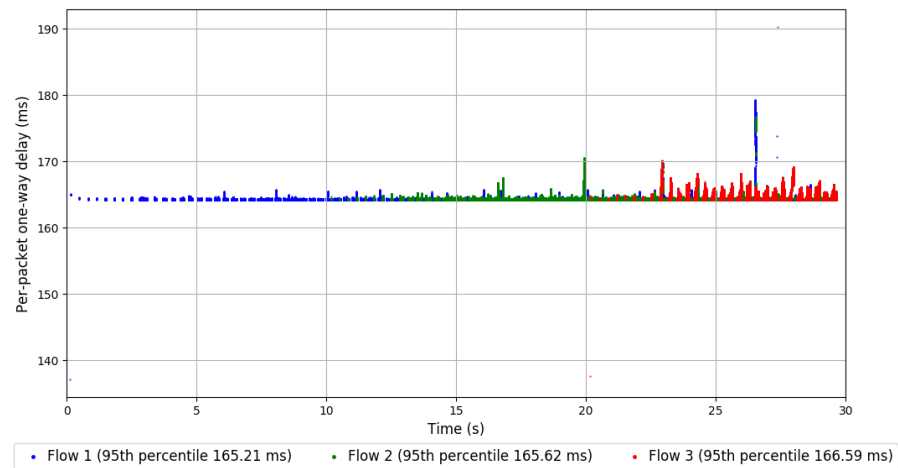
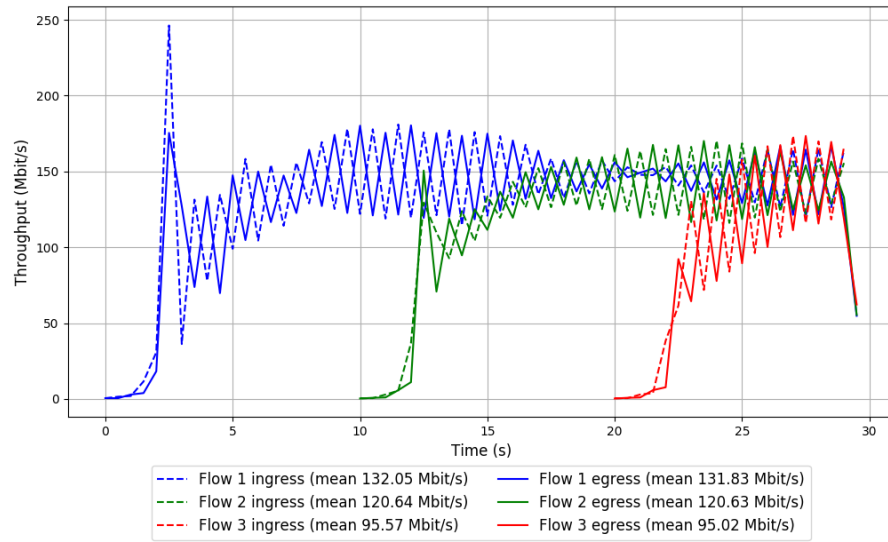
-- Flow 3:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 166.595 ms

Loss rate: 0.47%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-12 21:56:40

End at: 2017-10-12 21:57:10

Below is generated by plot.py at 2017-10-12 23:18:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.53 Mbit/s

95th percentile per-packet one-way delay: 138.246 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 139.37 Mbit/s

95th percentile per-packet one-way delay: 137.575 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 104.15 Mbit/s

95th percentile per-packet one-way delay: 149.414 ms

Loss rate: 0.09%

-- Flow 3:

Average throughput: 69.01 Mbit/s

95th percentile per-packet one-way delay: 159.846 ms

Loss rate: 0.12%

Run 10: Report of Indigo — Data Link

