

Pantheon Report

Generated at 2017-11-22 08:35:49 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo 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.

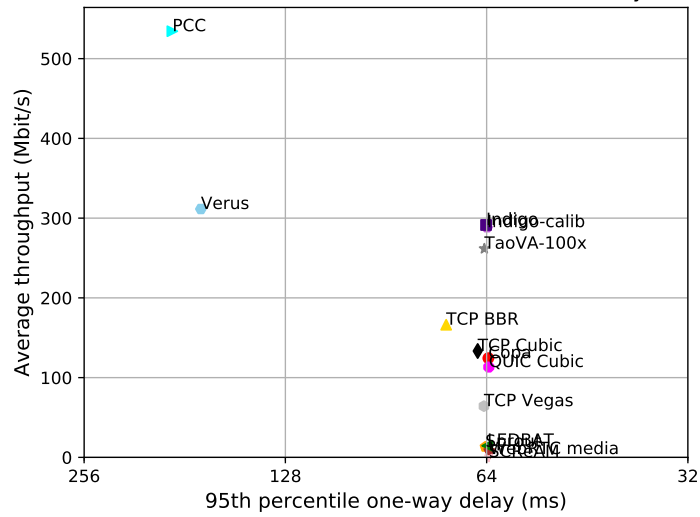
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

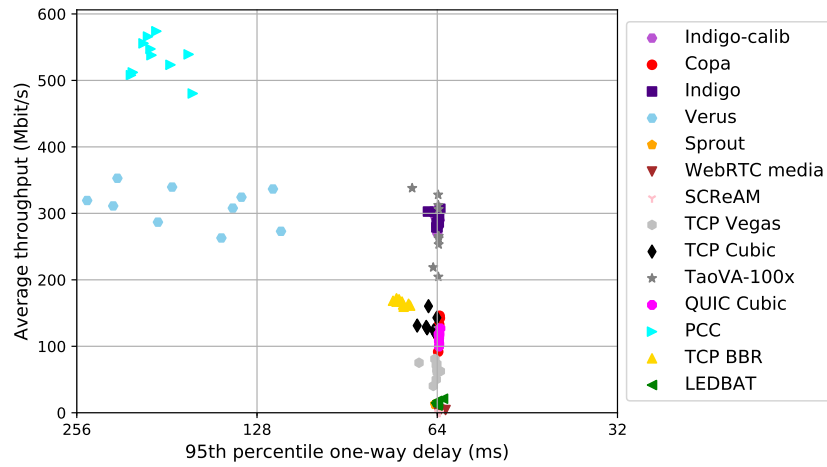
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Iowa Ethernet to GCE Tokyo 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	83.23	82.57	85.51	72.66	73.76	74.90	0.02	0.01	0.01
TCP Cubic	7	58.62	74.00	76.91	65.28	66.09	67.18	0.01	0.01	0.01
LEDBAT	10	7.87	7.69	4.91	63.90	63.83	63.08	0.02	0.02	0.01
PCC	10	493.99	32.70	56.25	188.99	186.43	172.24	1.79	1.49	1.98
QUIC Cubic	10	61.35	56.26	44.93	62.75	63.27	62.78	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.21	63.55	62.90	63.51	0.00	0.00	0.00
WebRTC media	10	2.20	1.41	0.55	63.22	62.89	63.11	0.00	0.13	0.01
Sprout	6	6.55	6.51	6.24	64.35	63.71	63.86	0.03	0.01	0.02
TaoVA-100x	10	130.81	162.21	96.53	64.49	63.91	66.46	0.01	0.03	0.06
TCP Vegas	10	31.44	30.81	37.05	64.24	64.33	65.96	0.00	0.00	0.02
Verus	10	204.99	121.15	84.05	162.77	161.58	154.58	0.74	0.71	0.85
Copa	10	69.39	64.67	64.77	63.59	63.62	63.62	0.00	0.01	0.01
Indigo	10	160.04	140.05	113.79	63.92	64.18	64.84	0.01	0.01	0.01
Indigo-calib	10	159.55	140.59	111.15	63.80	63.84	64.03	0.00	0.00	0.04

Run 1: Statistics of TCP BBR

Start at: 2017-11-22 04:19:25

End at: 2017-11-22 04:19:55

Below is generated by plot.py at 2017-11-22 07:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 73.288 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 73.314 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 74.284 ms

Loss rate: 0.00%

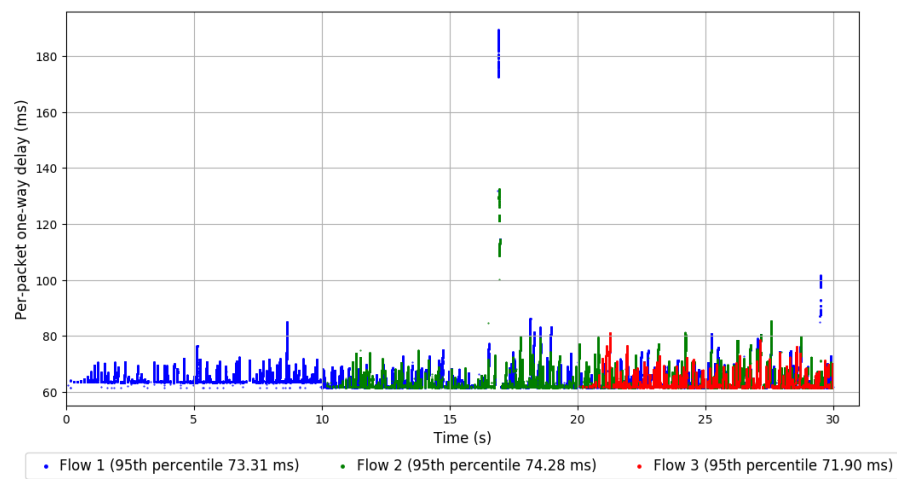
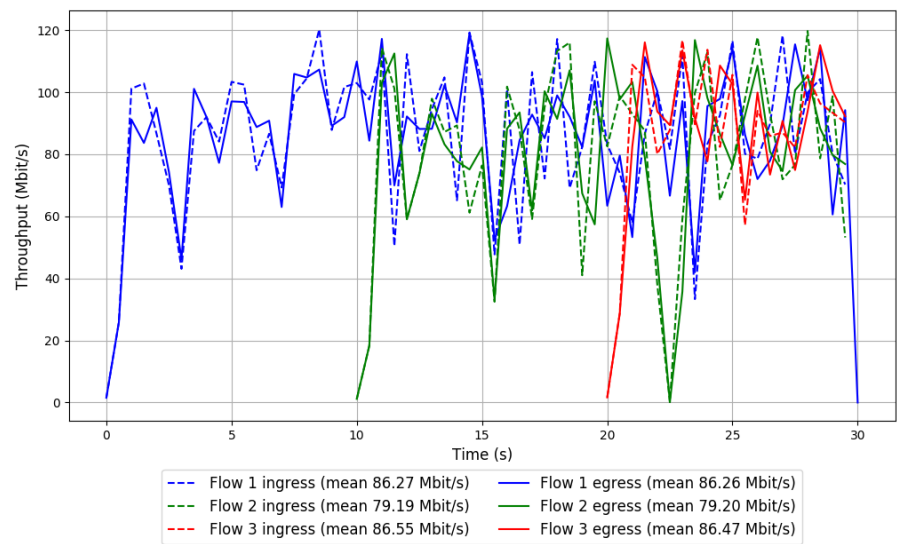
-- Flow 3:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 71.898 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-22 04:31:50

End at: 2017-11-22 04:32:20

Below is generated by plot.py at 2017-11-22 07:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.80 Mbit/s

95th percentile per-packet one-way delay: 72.976 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 72.960 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 80.91 Mbit/s

95th percentile per-packet one-way delay: 70.949 ms

Loss rate: 0.01%

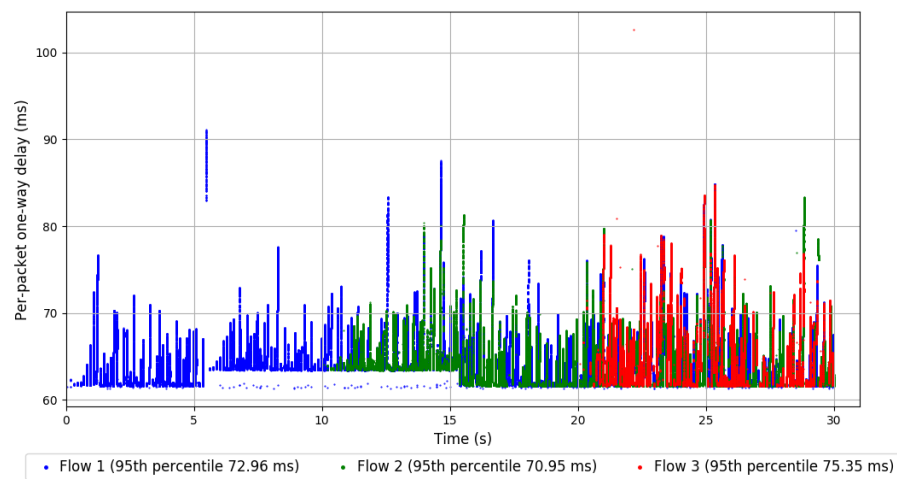
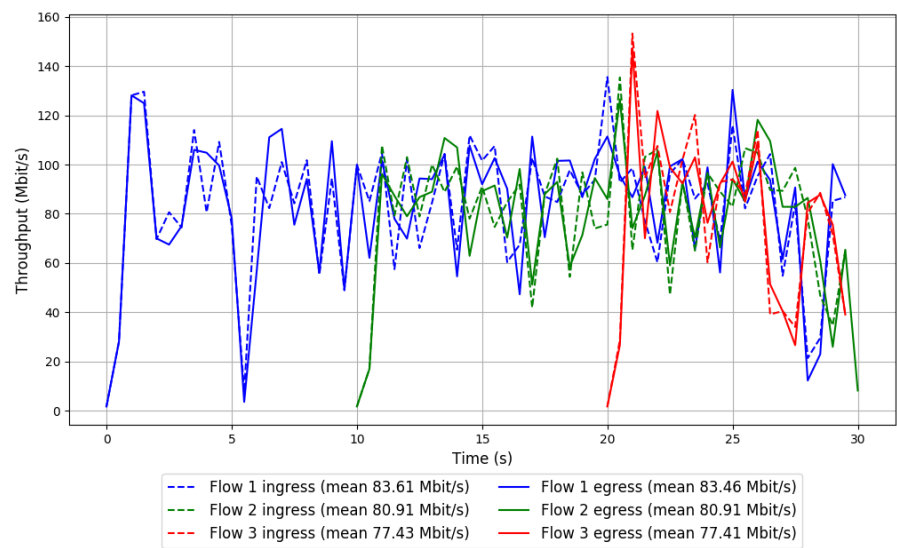
-- Flow 3:

Average throughput: 77.41 Mbit/s

95th percentile per-packet one-way delay: 75.348 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-22 04:43:57

End at: 2017-11-22 04:44:27

Below is generated by plot.py at 2017-11-22 07:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.21 Mbit/s

95th percentile per-packet one-way delay: 71.032 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 71.188 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 71.132 ms

Loss rate: 0.01%

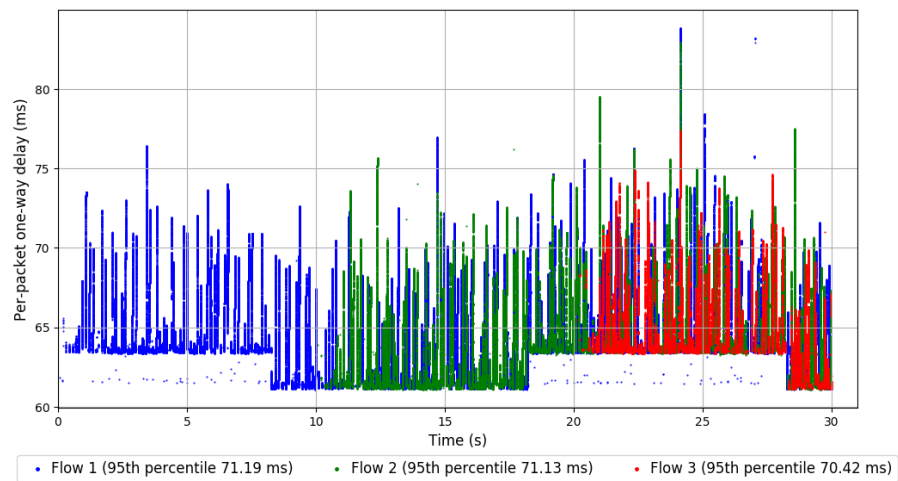
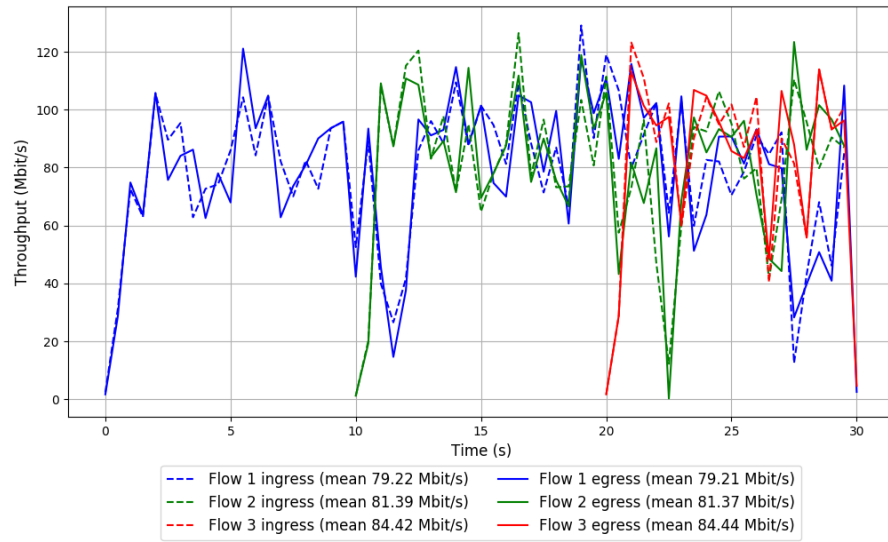
-- Flow 3:

Average throughput: 84.44 Mbit/s

95th percentile per-packet one-way delay: 70.418 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-22 04:56:19

End at: 2017-11-22 04:56:49

Below is generated by plot.py at 2017-11-22 07:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.53 Mbit/s

95th percentile per-packet one-way delay: 72.832 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.73 Mbit/s

95th percentile per-packet one-way delay: 72.190 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 72.804 ms

Loss rate: 0.00%

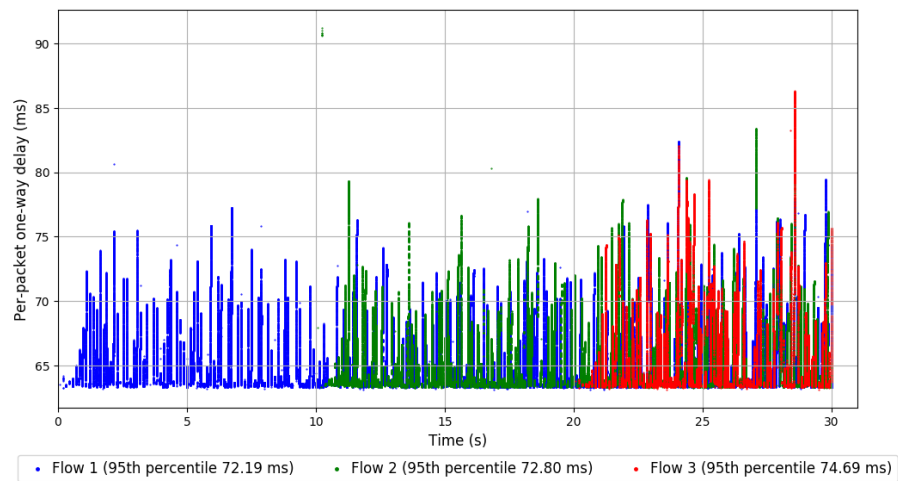
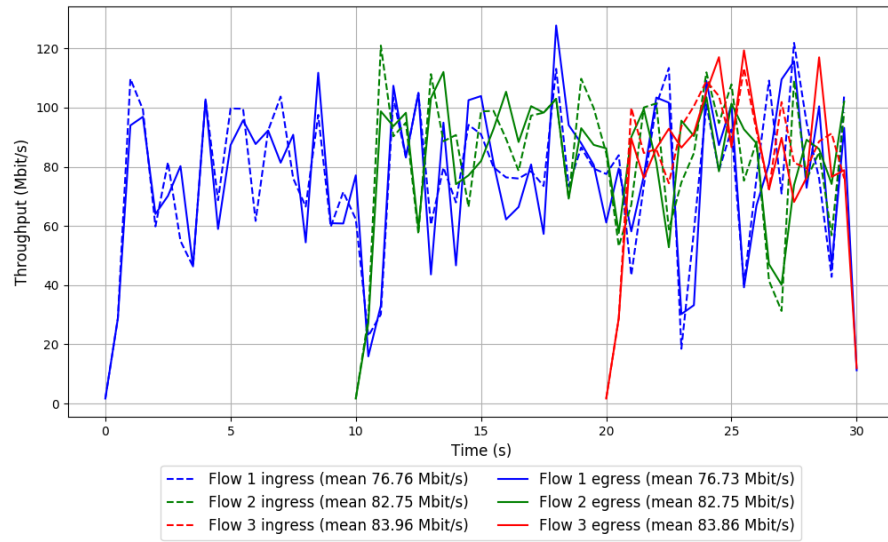
-- Flow 3:

Average throughput: 83.86 Mbit/s

95th percentile per-packet one-way delay: 74.693 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-22 05:08:43

End at: 2017-11-22 05:09:13

Below is generated by plot.py at 2017-11-22 07:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.54 Mbit/s

95th percentile per-packet one-way delay: 75.862 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 75.314 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 80.24 Mbit/s

95th percentile per-packet one-way delay: 75.522 ms

Loss rate: 0.00%

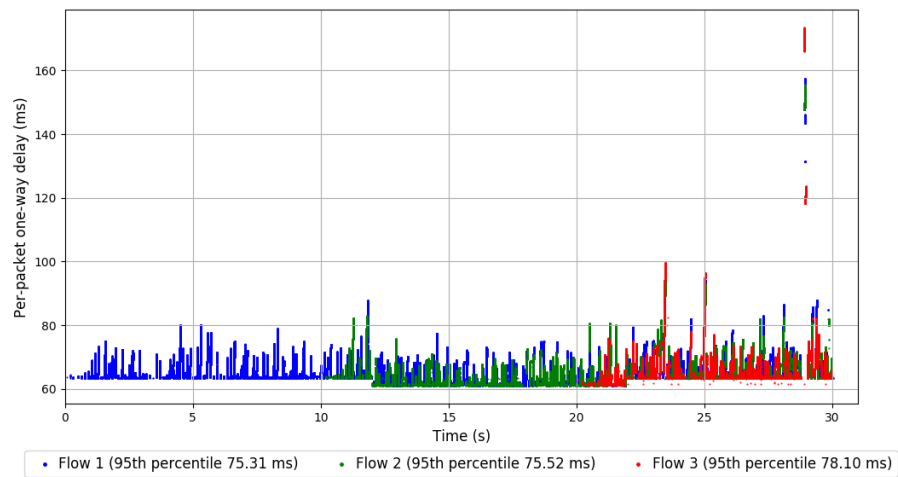
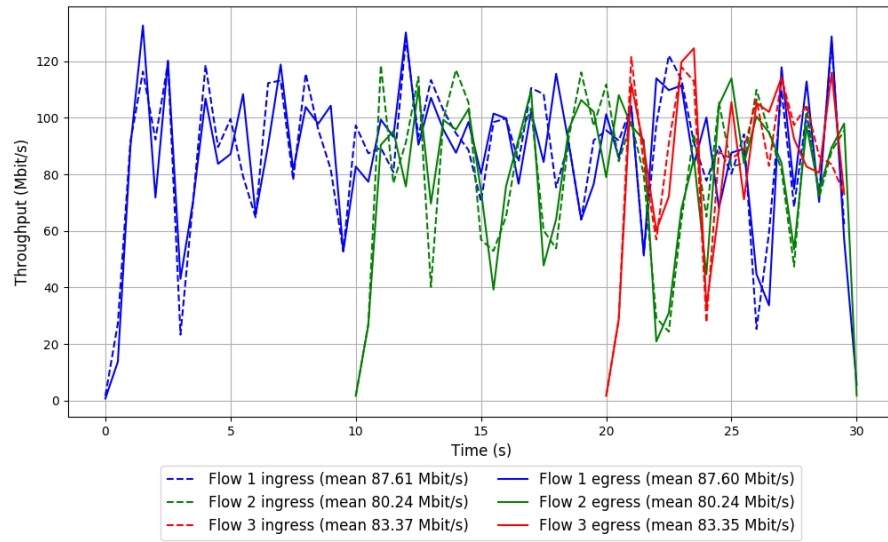
-- Flow 3:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 78.100 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-22 05:20:59

End at: 2017-11-22 05:21:29

Below is generated by plot.py at 2017-11-22 07:37:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.76 Mbit/s

95th percentile per-packet one-way delay: 74.123 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 86.69 Mbit/s

95th percentile per-packet one-way delay: 73.195 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 75.968 ms

Loss rate: 0.00%

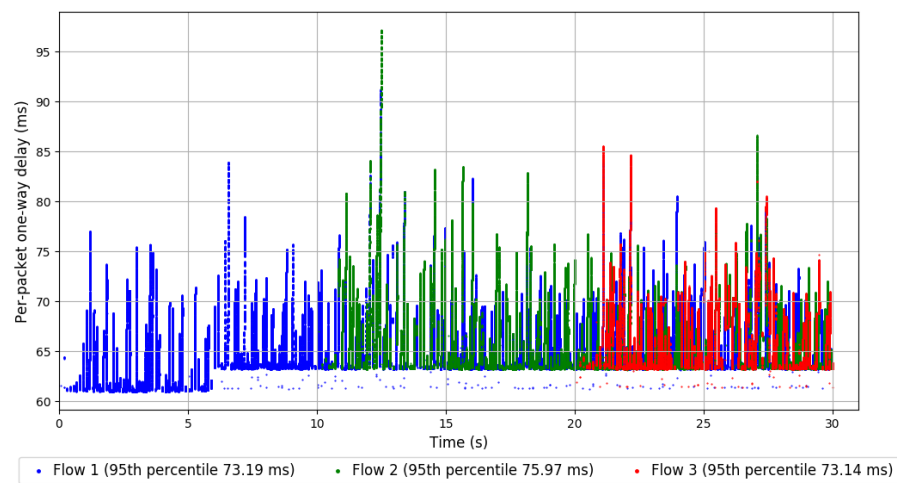
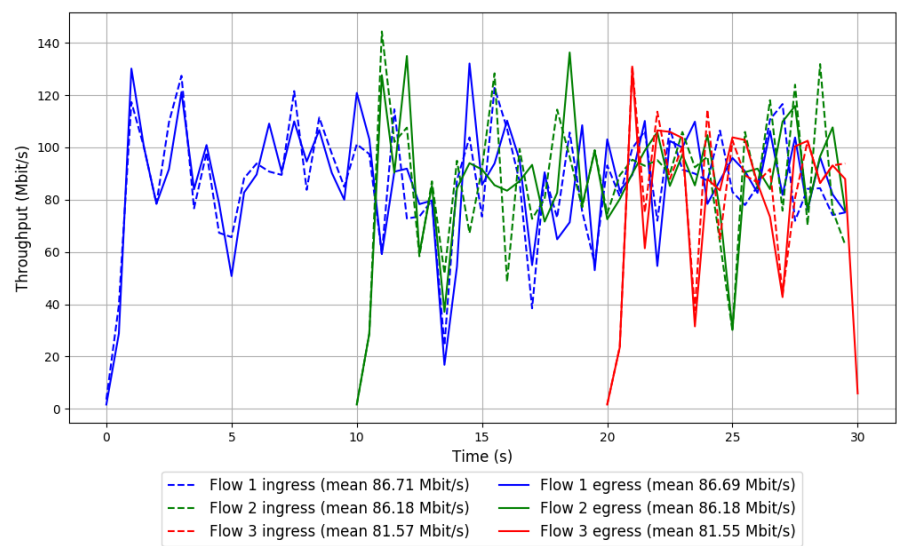
-- Flow 3:

Average throughput: 81.55 Mbit/s

95th percentile per-packet one-way delay: 73.143 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-22 05:33:11

End at: 2017-11-22 05:33:41

Below is generated by plot.py at 2017-11-22 07:37:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.03 Mbit/s

95th percentile per-packet one-way delay: 71.464 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 72.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 70.646 ms

Loss rate: 0.00%

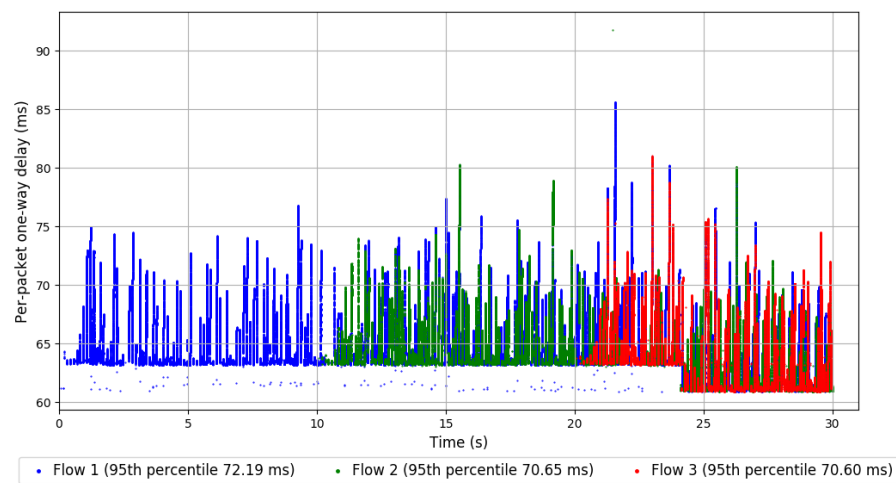
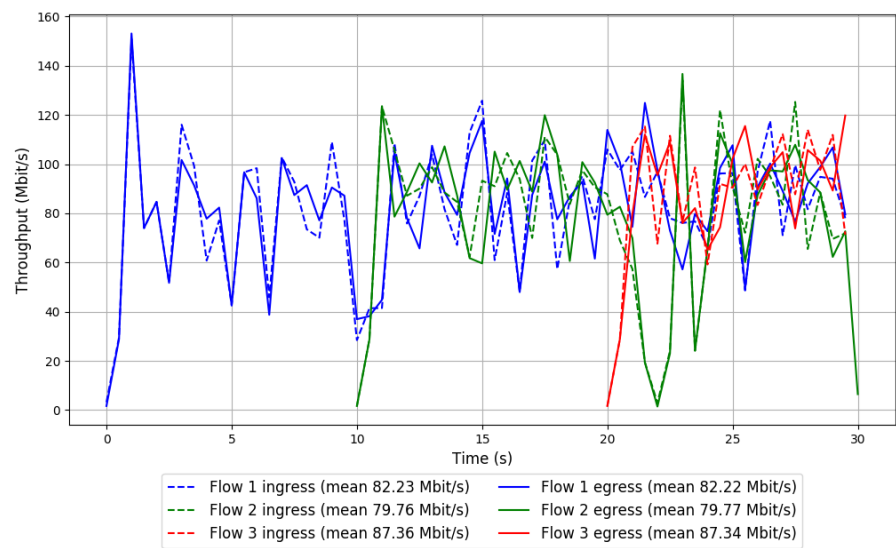
-- Flow 3:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 70.597 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-22 05:45:26

End at: 2017-11-22 05:45:56

Below is generated by plot.py at 2017-11-22 07:37:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.20 Mbit/s

95th percentile per-packet one-way delay: 74.860 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 78.61 Mbit/s

95th percentile per-packet one-way delay: 72.407 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 76.206 ms

Loss rate: 0.04%

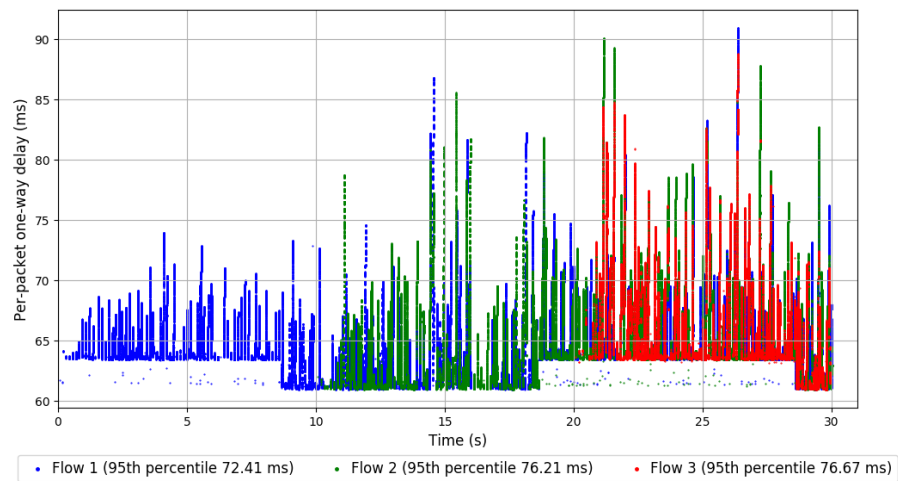
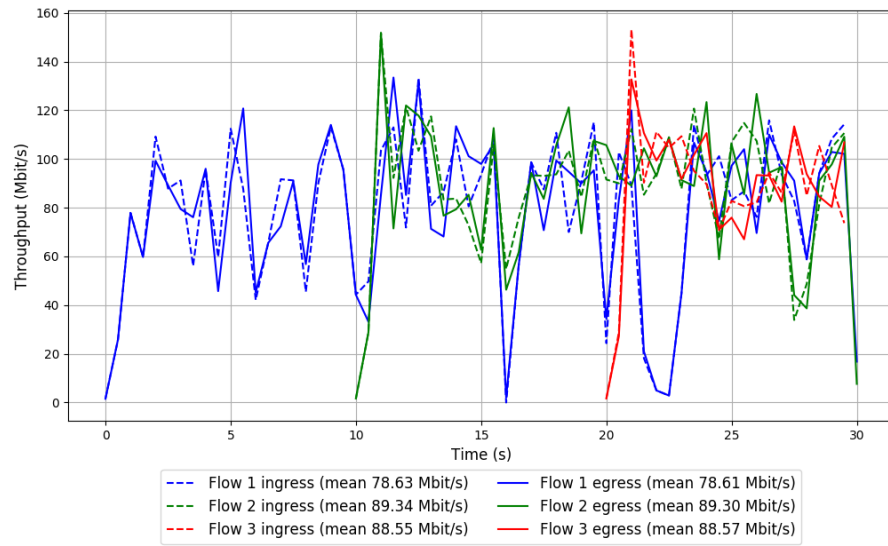
-- Flow 3:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 76.669 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-22 05:57:28

End at: 2017-11-22 05:57:58

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.26 Mbit/s

95th percentile per-packet one-way delay: 74.860 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 87.12 Mbit/s

95th percentile per-packet one-way delay: 72.940 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 75.485 ms

Loss rate: 0.00%

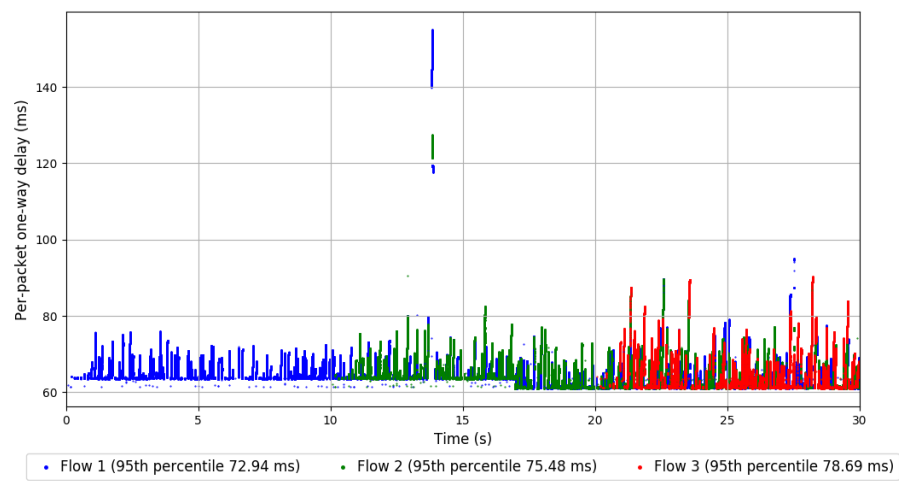
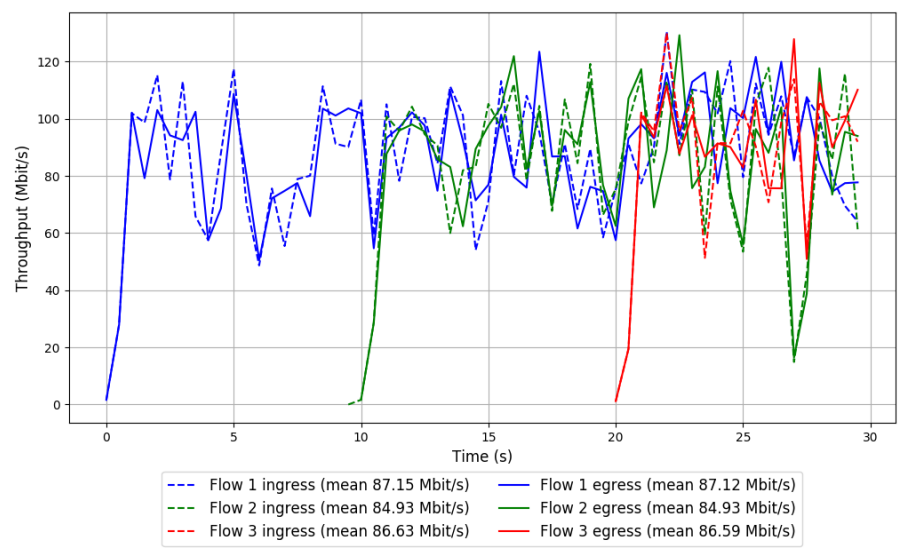
-- Flow 3:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 78.695 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-22 06:09:46

End at: 2017-11-22 06:10:16

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.71 Mbit/s

95th percentile per-packet one-way delay: 74.418 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 84.45 Mbit/s

95th percentile per-packet one-way delay: 70.888 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 74.638 ms

Loss rate: 0.00%

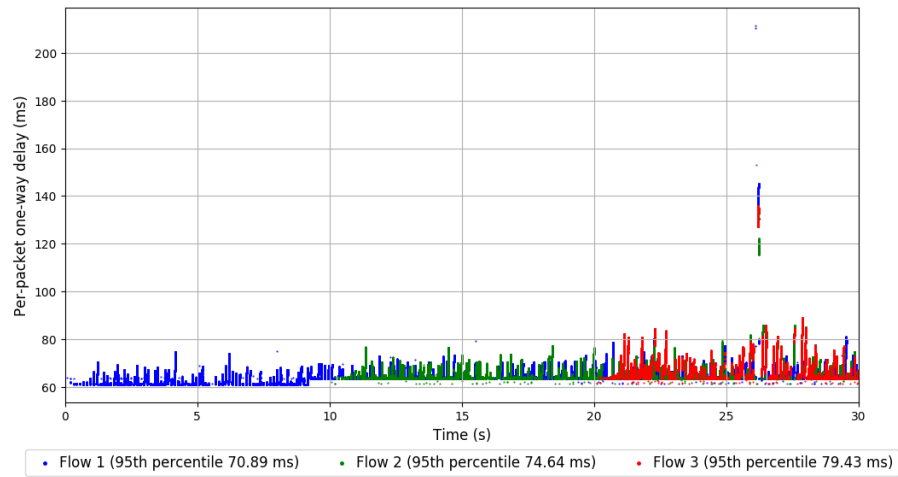
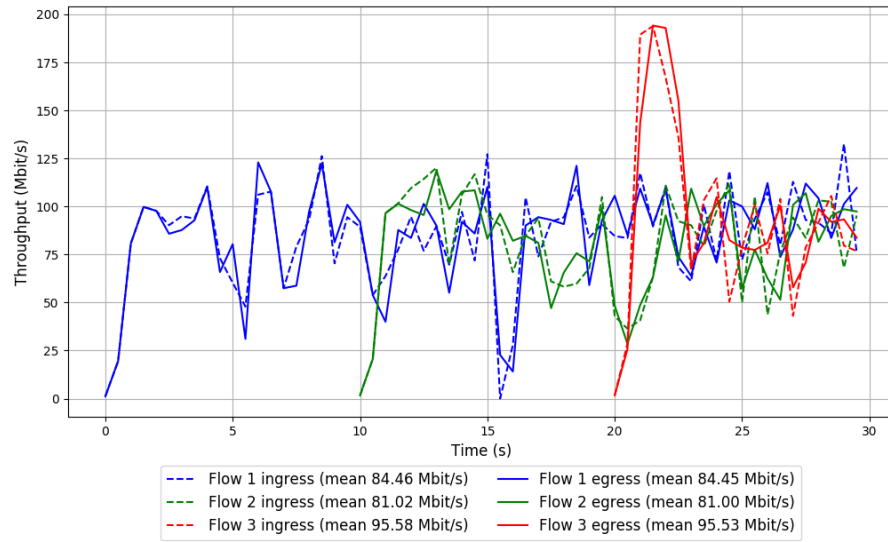
-- Flow 3:

Average throughput: 95.53 Mbit/s

95th percentile per-packet one-way delay: 79.431 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-22 04:14:56

End at: 2017-11-22 04:15:26

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.21 Mbit/s

95th percentile per-packet one-way delay: 66.764 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 64.750 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 66.647 ms

Loss rate: 0.01%

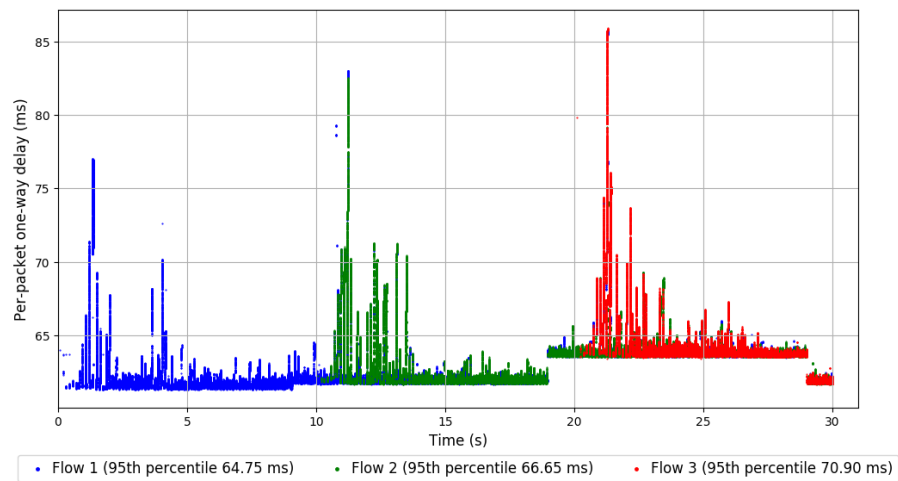
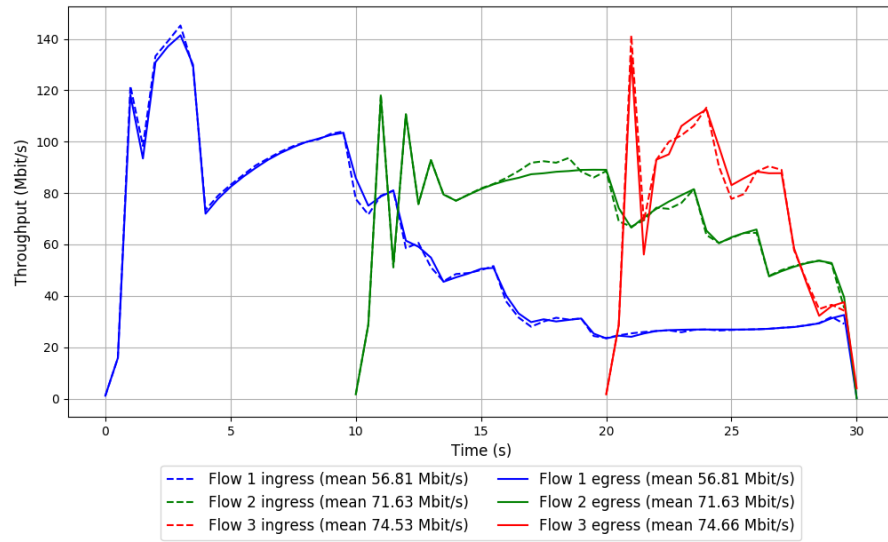
-- Flow 3:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 70.902 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-22 04:27:19

End at: 2017-11-22 04:27:49

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.01 Mbit/s

95th percentile per-packet one-way delay: 64.098 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.65 Mbit/s

95th percentile per-packet one-way delay: 62.549 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 66.142 ms

Loss rate: 0.02%

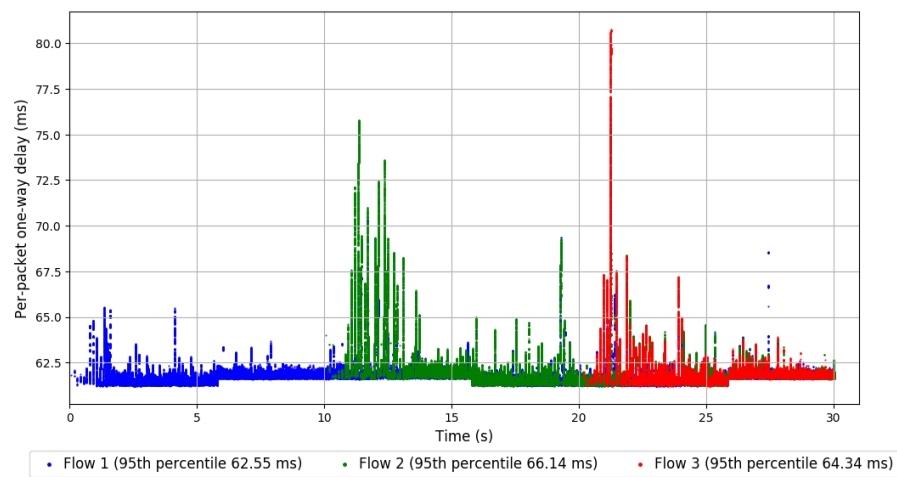
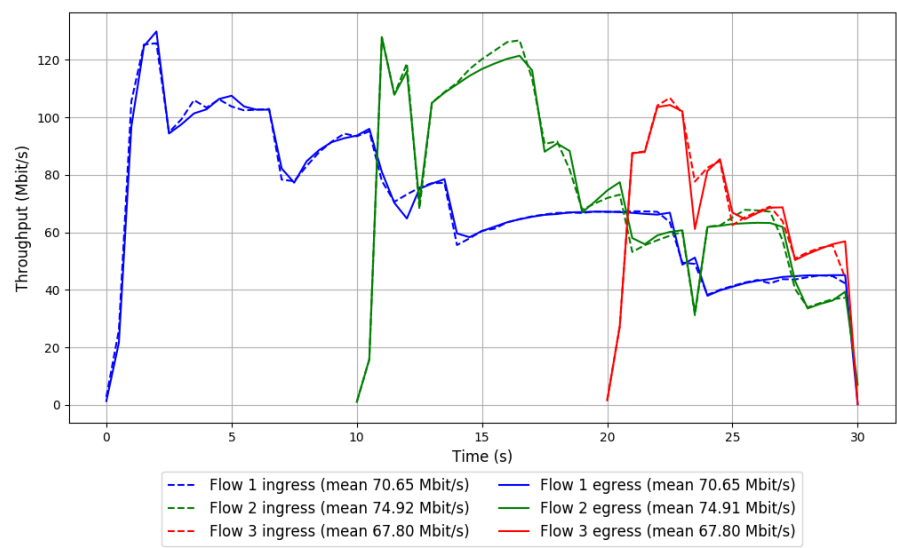
-- Flow 3:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 64.342 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-22 04:39:41

End at: 2017-11-22 04:40:11

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.03 Mbit/s

95th percentile per-packet one-way delay: 66.541 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.67 Mbit/s

95th percentile per-packet one-way delay: 65.184 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 66.597 ms

Loss rate: 0.00%

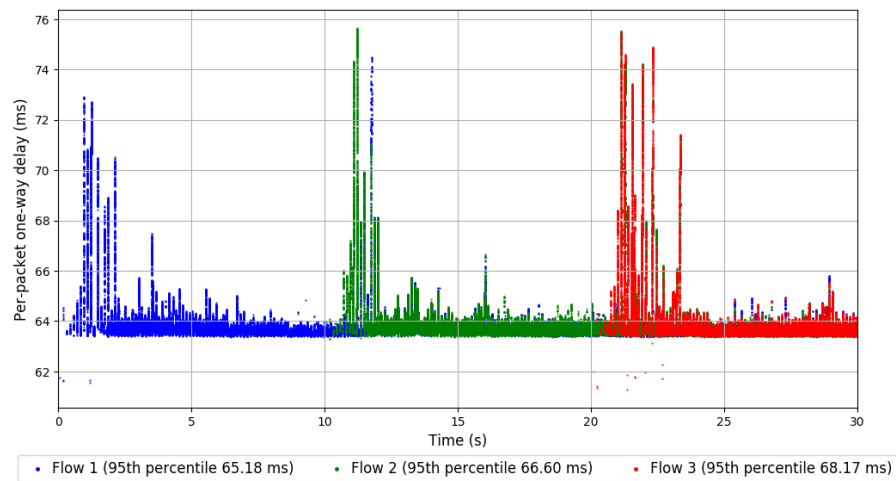
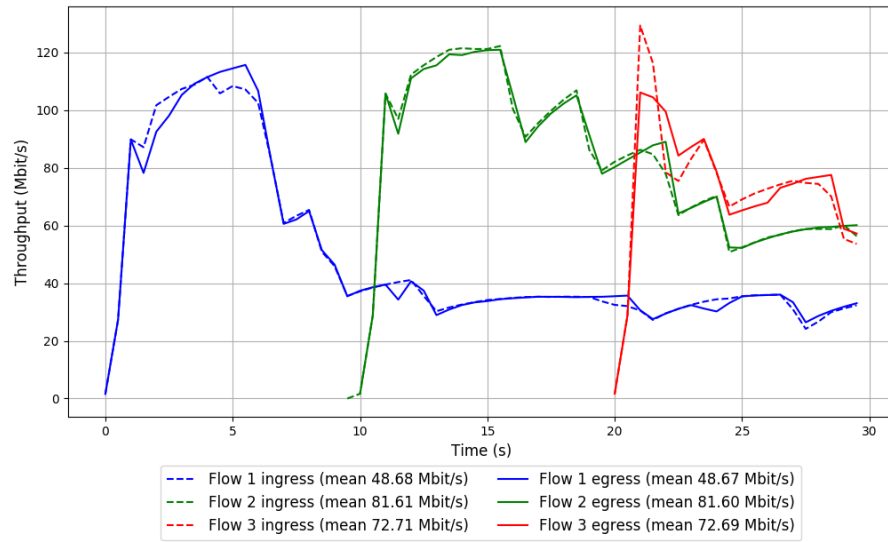
-- Flow 3:

Average throughput: 72.69 Mbit/s

95th percentile per-packet one-way delay: 68.174 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-22 04:51:50

End at: 2017-11-22 04:52:20

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.83 Mbit/s

95th percentile per-packet one-way delay: 64.888 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.44 Mbit/s

95th percentile per-packet one-way delay: 64.540 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 68.89 Mbit/s

95th percentile per-packet one-way delay: 64.959 ms

Loss rate: 0.00%

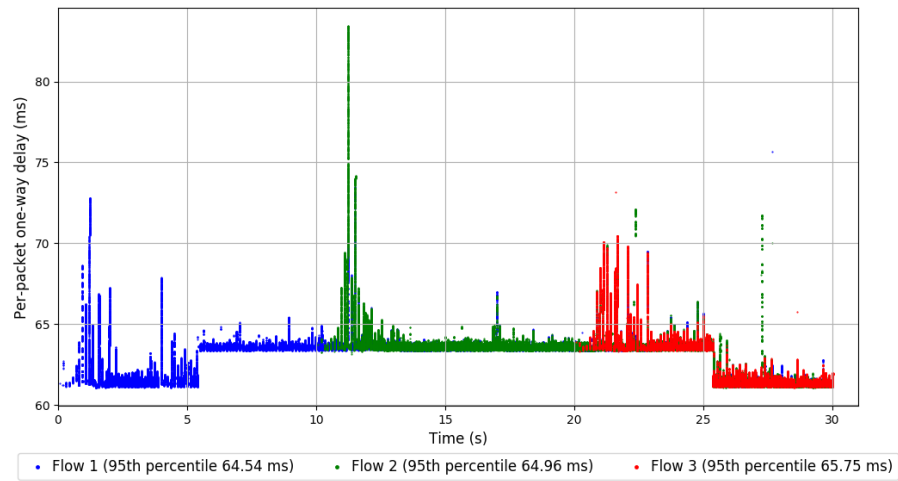
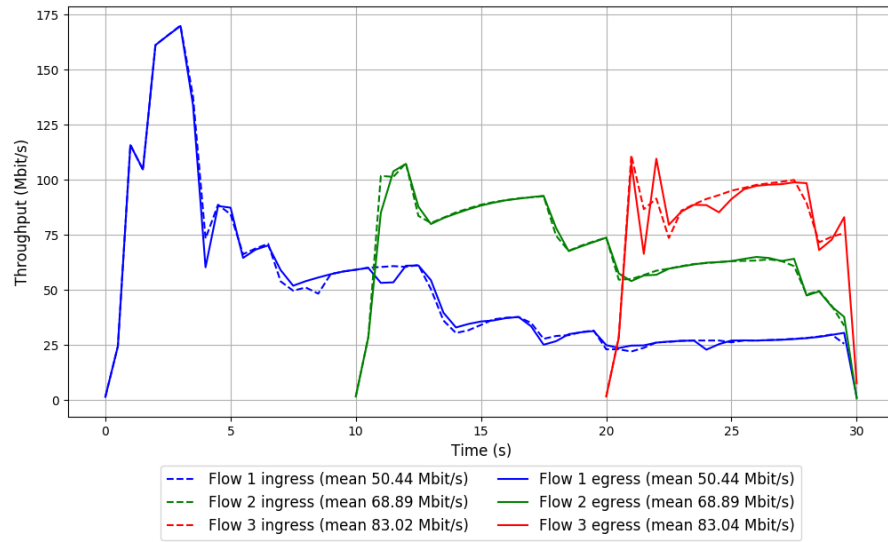
-- Flow 3:

Average throughput: 83.04 Mbit/s

95th percentile per-packet one-way delay: 65.751 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-22 05:04:11

End at: 2017-11-22 05:04:41

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.34 Mbit/s

95th percentile per-packet one-way delay: 66.191 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 66.180 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 65.603 ms

Loss rate: 0.00%

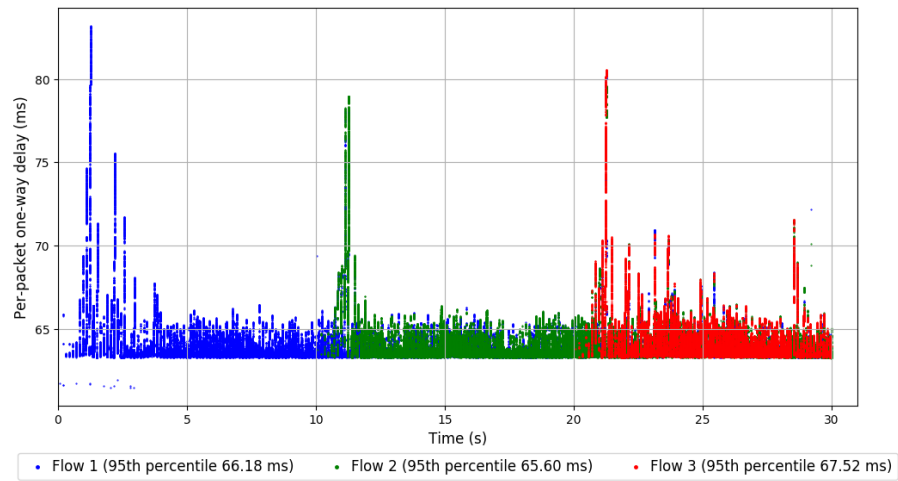
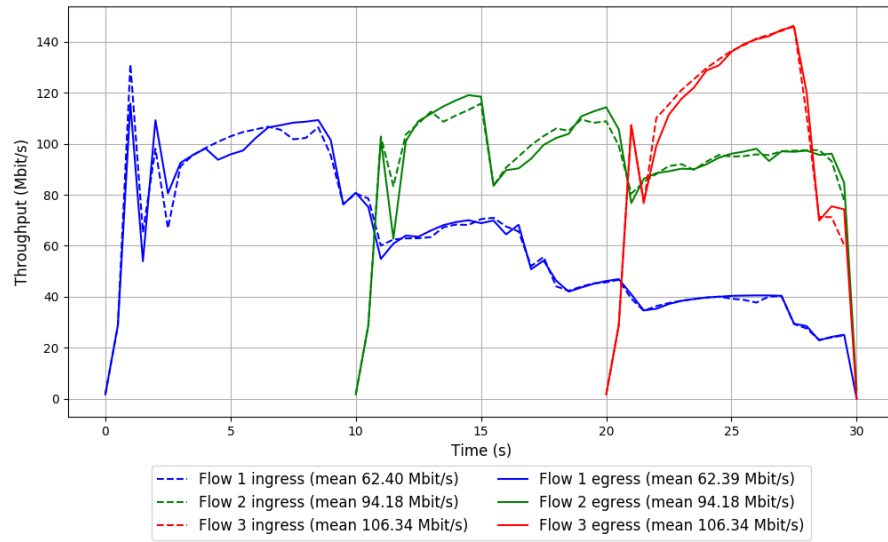
-- Flow 3:

Average throughput: 106.34 Mbit/s

95th percentile per-packet one-way delay: 67.518 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-22 05:16:35

End at: 2017-11-22 05:17:05

Below is generated by plot.py at 2017-11-22 07:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.18 Mbit/s

95th percentile per-packet one-way delay: 69.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 69.547 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 68.066 ms

Loss rate: 0.00%

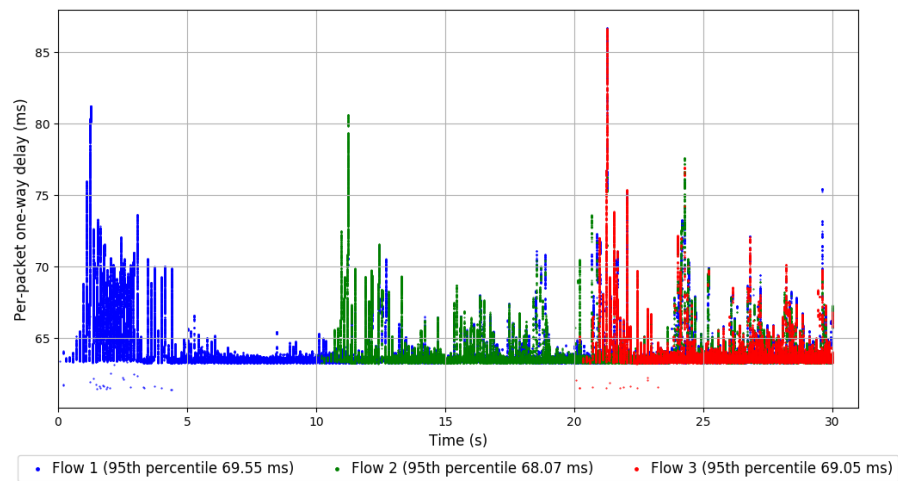
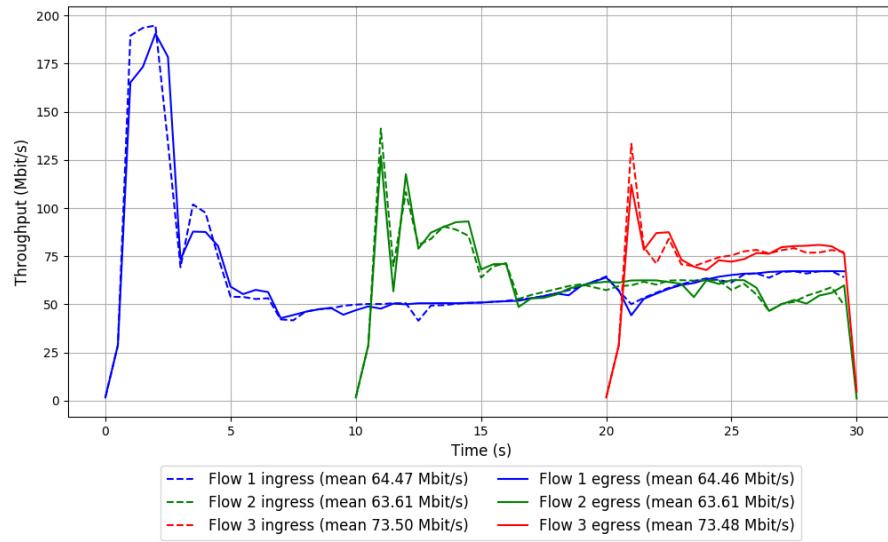
-- Flow 3:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 69.052 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

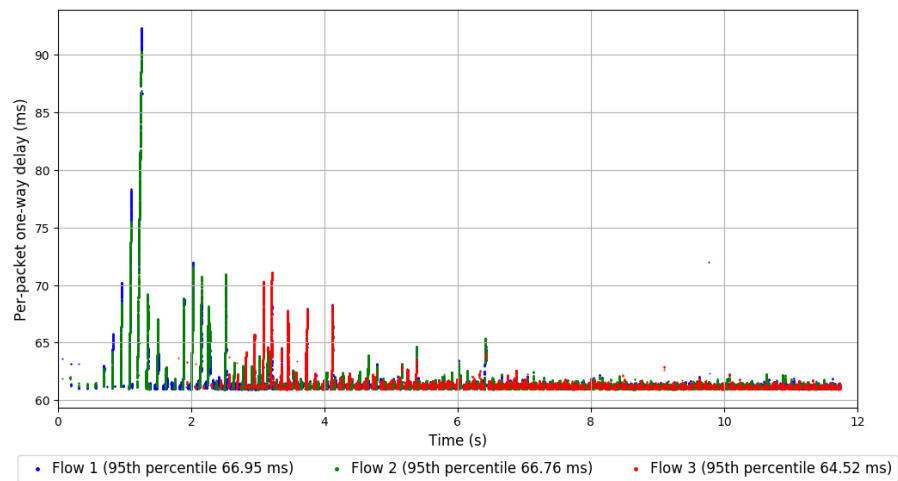
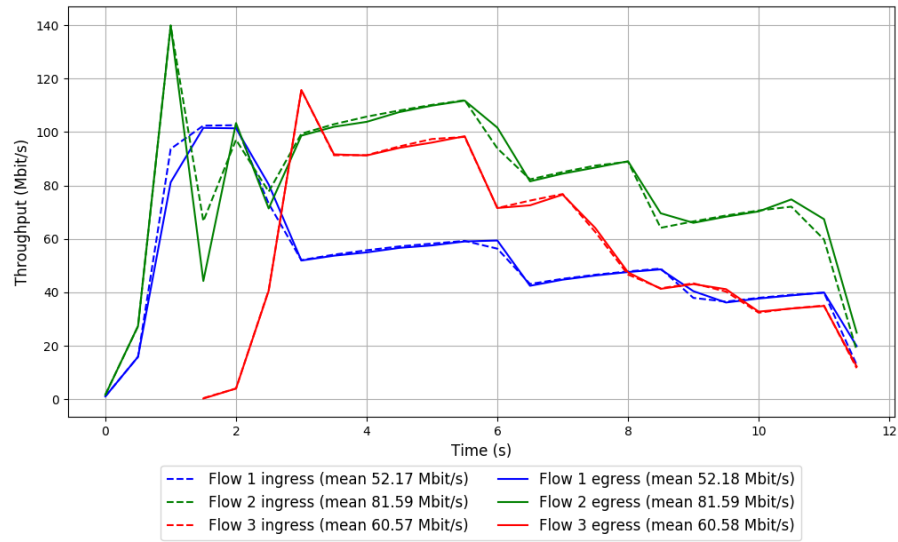


Run 7: Statistics of TCP Cubic

Start at: 2017-11-22 05:28:51

End at: 2017-11-22 05:29:21

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-22 05:41:06

End at: 2017-11-22 05:41:36

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.92 Mbit/s

95th percentile per-packet one-way delay: 64.406 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 56.89 Mbit/s

95th percentile per-packet one-way delay: 64.225 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 64.595 ms

Loss rate: 0.01%

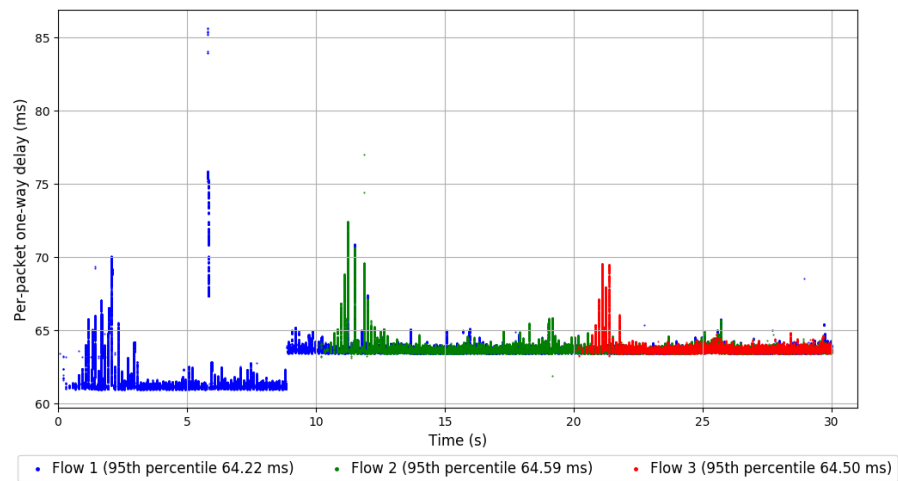
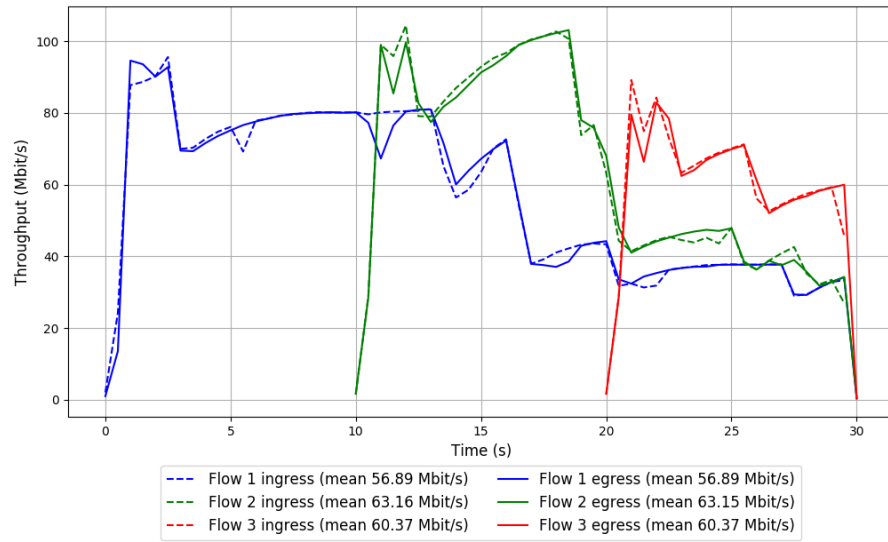
-- Flow 3:

Average throughput: 60.37 Mbit/s

95th percentile per-packet one-way delay: 64.501 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link

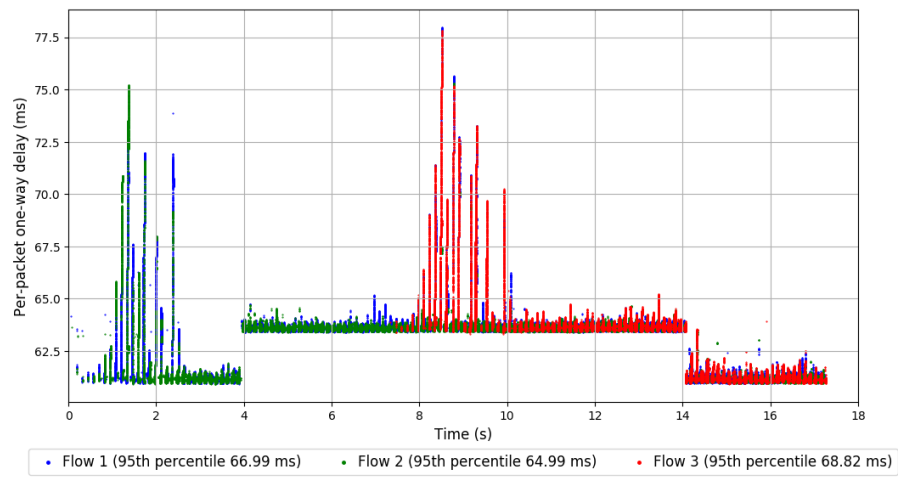
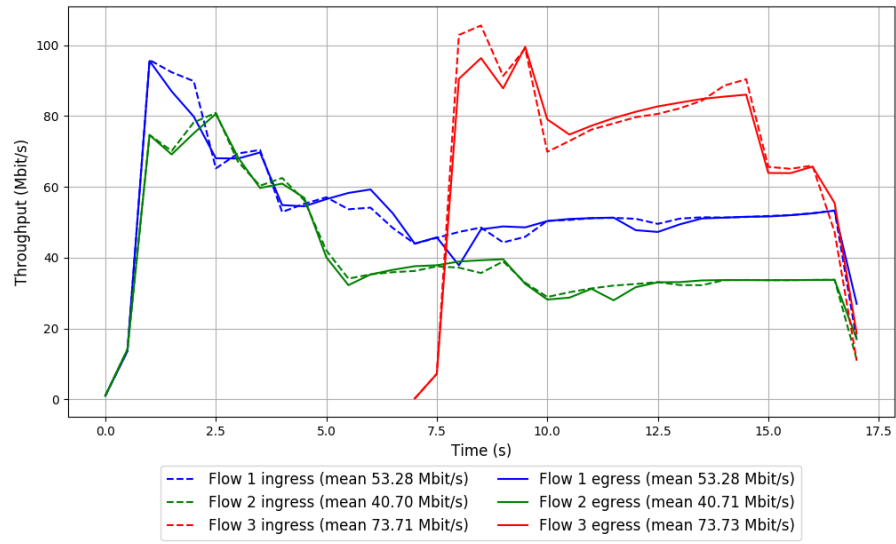


Run 9: Statistics of TCP Cubic

Start at: 2017-11-22 05:53:18

End at: 2017-11-22 05:53:48

Run 9: Report of TCP Cubic — Data Link

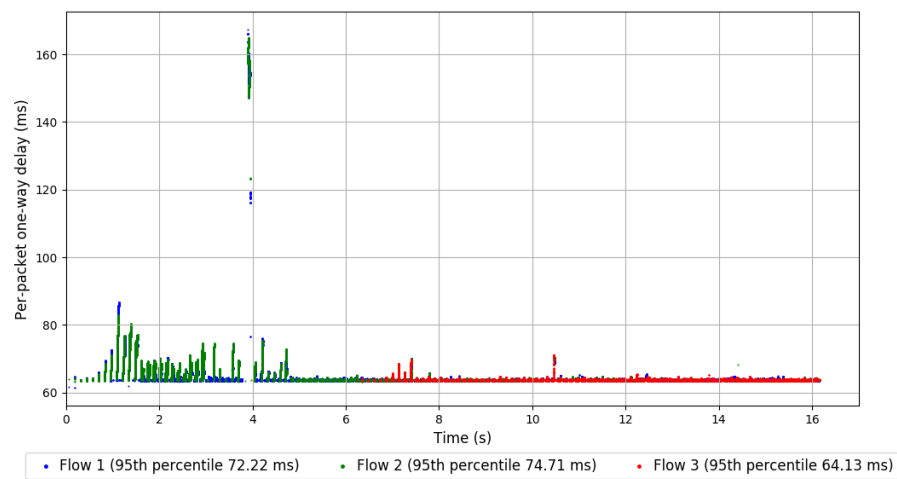
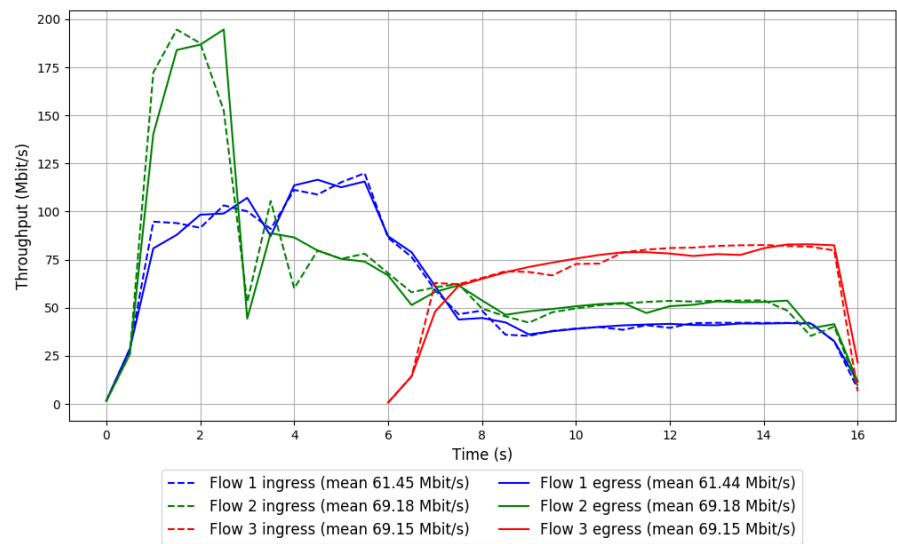


Run 10: Statistics of TCP Cubic

Start at: 2017-11-22 06:05:24

End at: 2017-11-22 06:05:54

Run 10: Report of TCP Cubic — Data Link

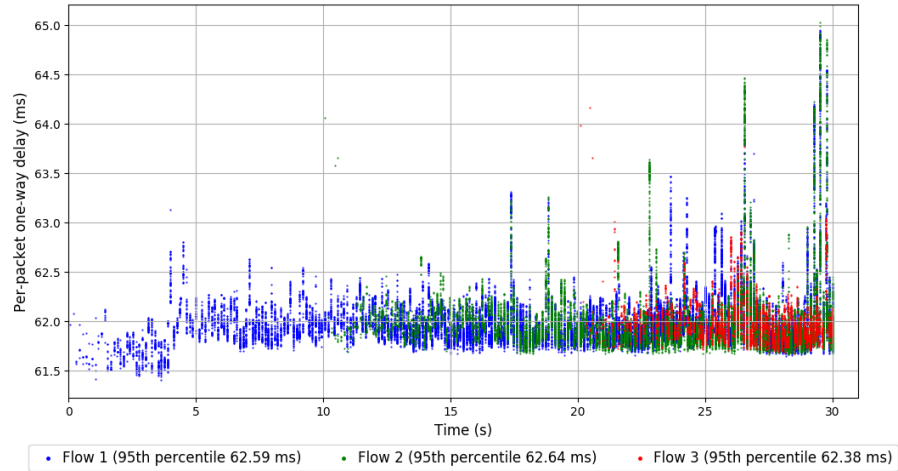
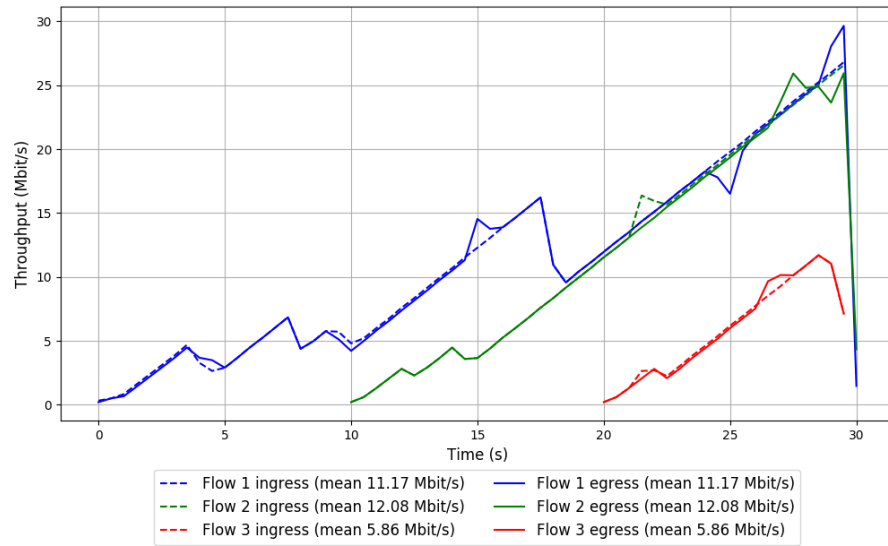


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-22 04:18:01
End at: 2017-11-22 04:18:31

# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.15 Mbit/s
95th percentile per-packet one-way delay: 62.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 62.587 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 62.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 62.382 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

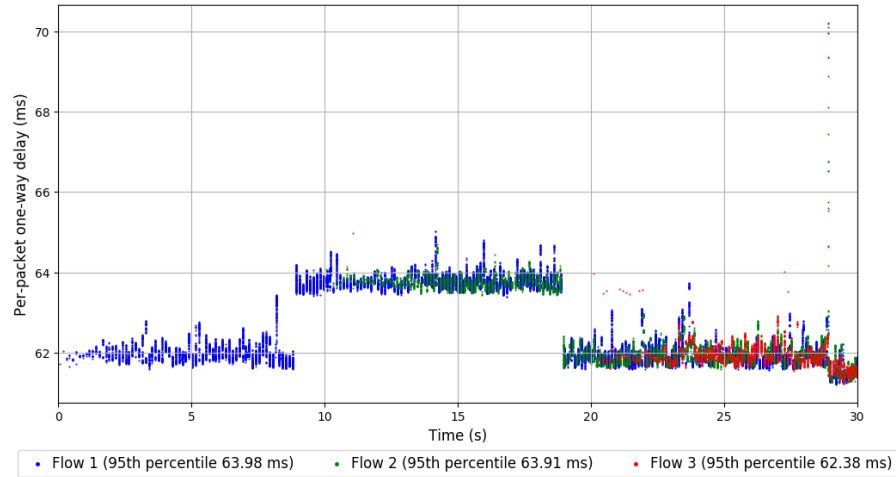
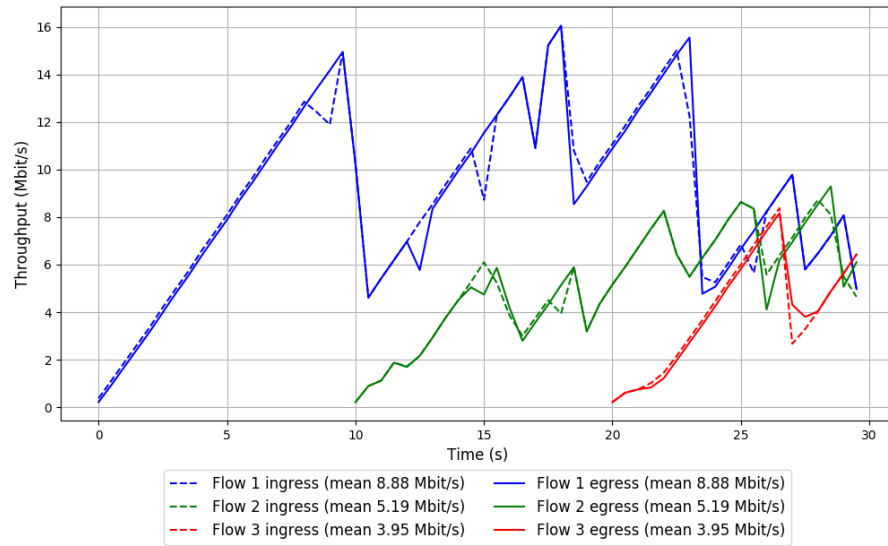


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-22 04:30:26
End at: 2017-11-22 04:30:56

# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 63.947 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 63.982 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 62.375 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-22 04:42:33

End at: 2017-11-22 04:43:03

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 64.003 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 64.057 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 63.994 ms

Loss rate: 0.01%

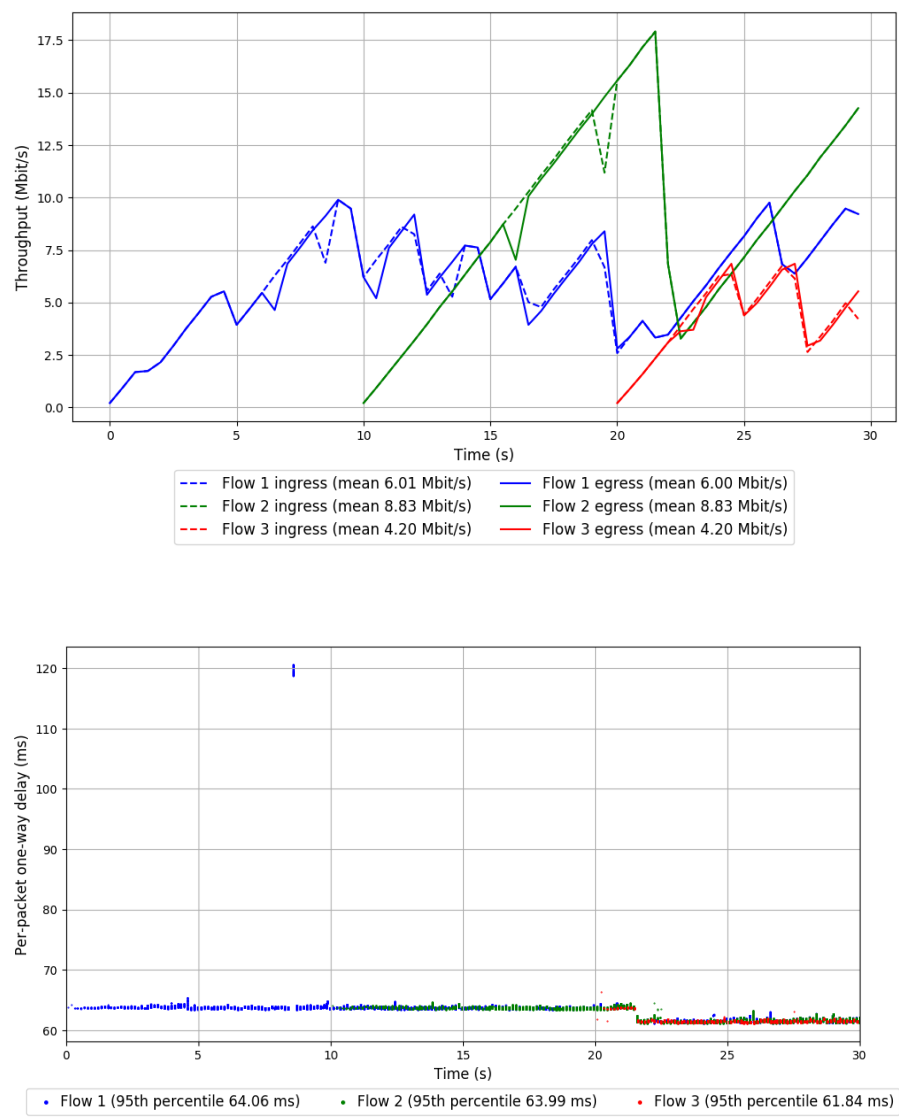
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 61.835 ms

Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-22 04:54:55

End at: 2017-11-22 04:55:25

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 64.311 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 64.342 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 64.277 ms

Loss rate: 0.05%

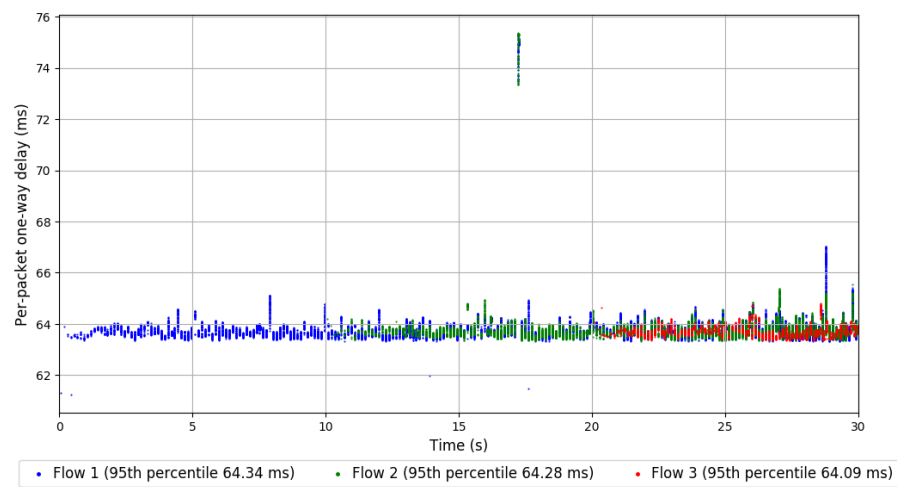
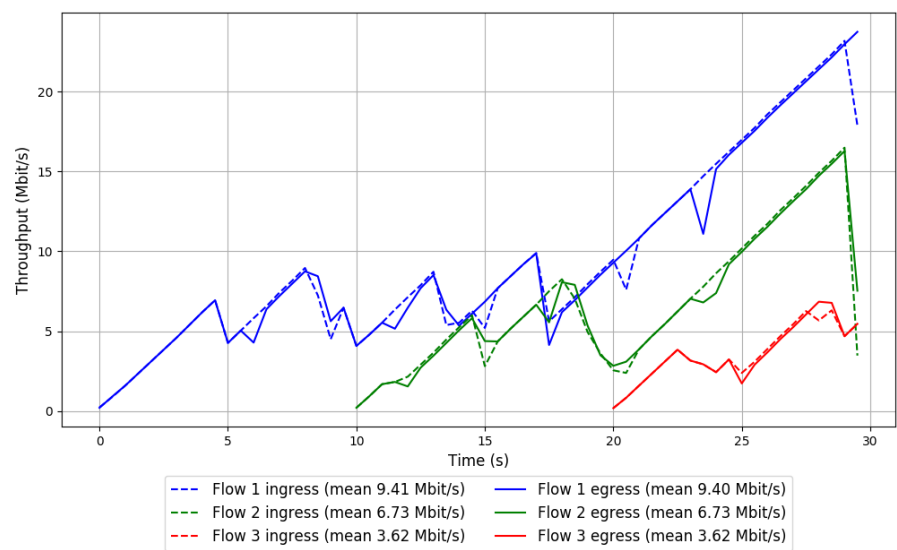
-- Flow 3:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 64.086 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-22 05:07:20

End at: 2017-11-22 05:07:50

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.29 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 63.819 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 63.604 ms

Loss rate: 0.01%

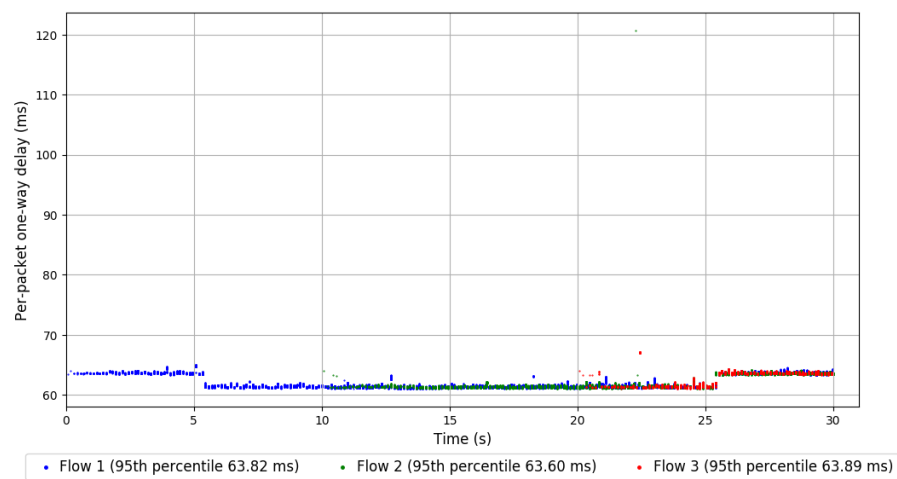
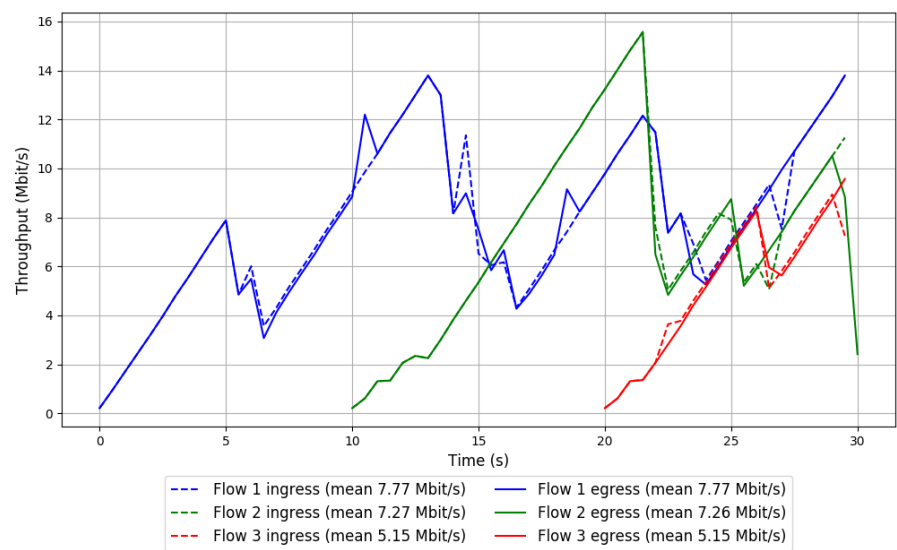
-- Flow 3:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 63.890 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-22 05:19:36

End at: 2017-11-22 05:20:06

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 63.926 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.03%

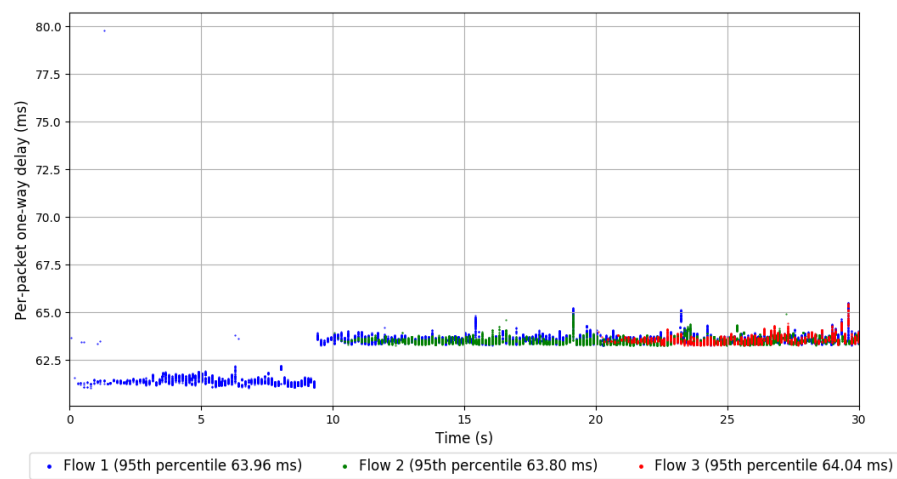
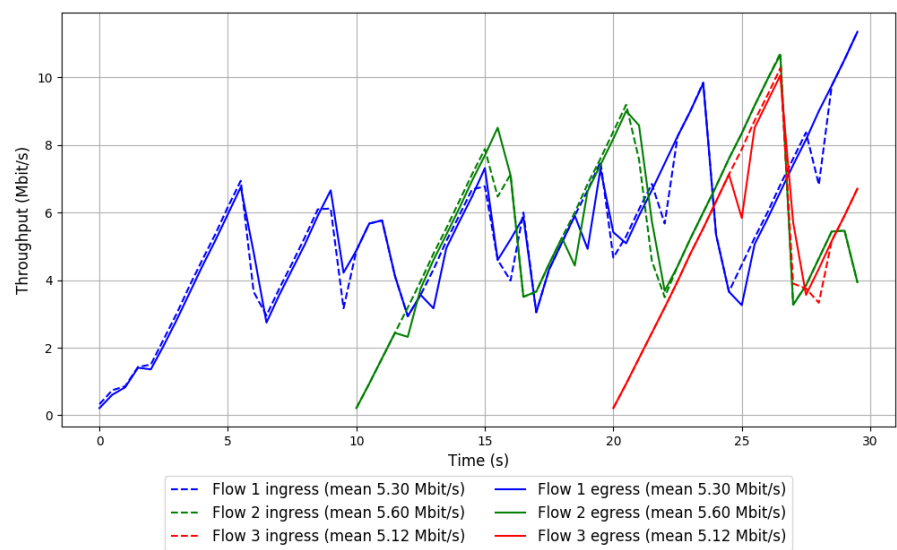
-- Flow 3:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 64.040 ms

Loss rate: 0.02%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-22 05:31:47

End at: 2017-11-22 05:32:17

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 64.004 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 64.024 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 63.961 ms

Loss rate: 0.01%

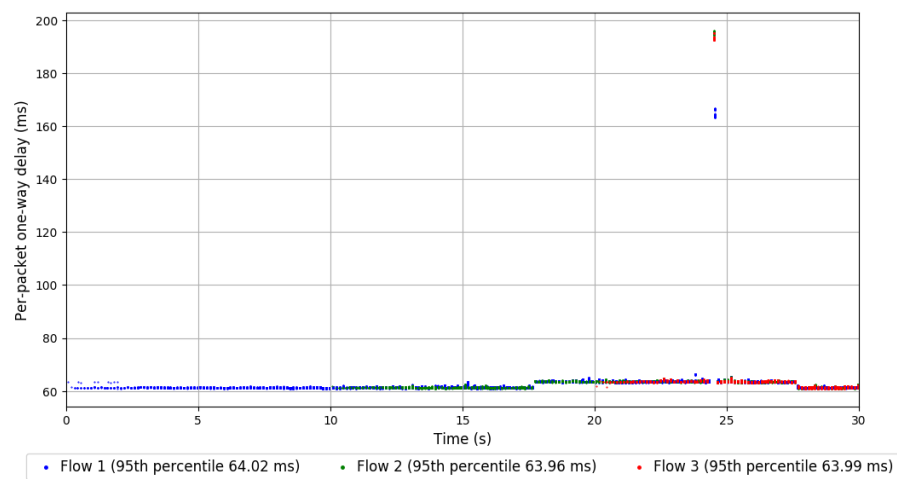
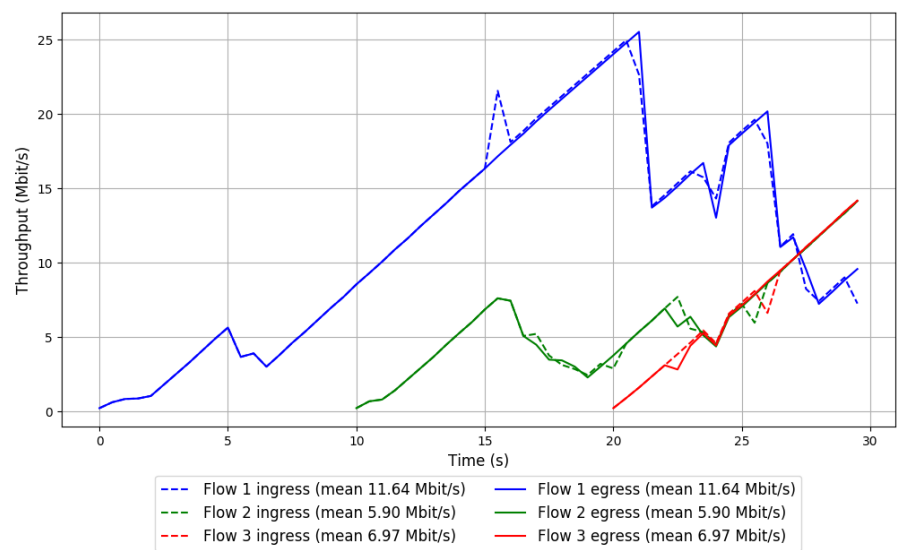
-- Flow 3:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 63.994 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-22 05:44:03

End at: 2017-11-22 05:44:33

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 63.986 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 64.066 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 63.860 ms

Loss rate: 0.01%

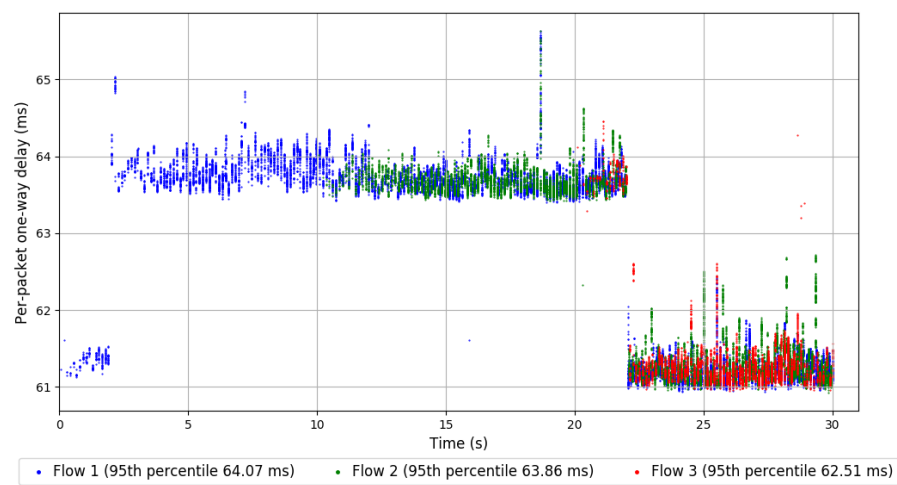
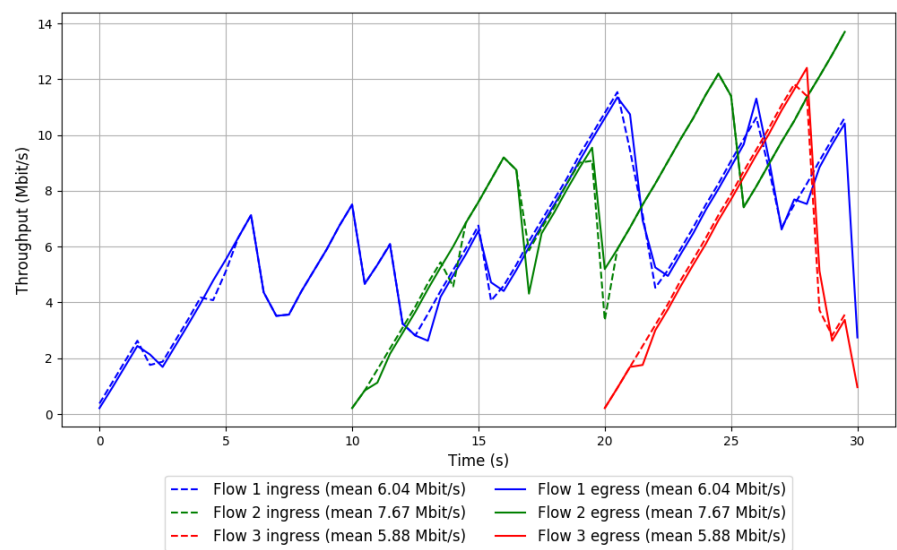
-- Flow 3:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 62.507 ms

Loss rate: 0.02%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-22 05:56:05

End at: 2017-11-22 05:56:35

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 63.991 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.038 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 9.22 Mbit/s

95th percentile per-packet one-way delay: 63.914 ms

Loss rate: 0.01%

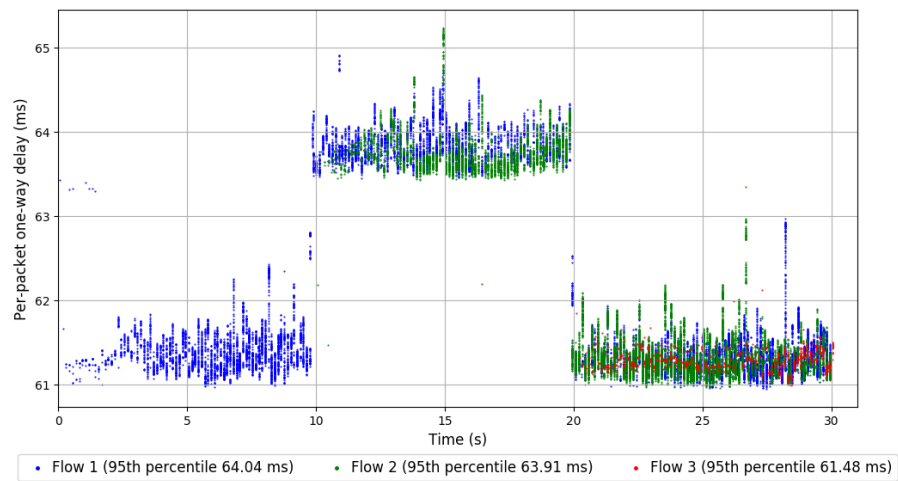
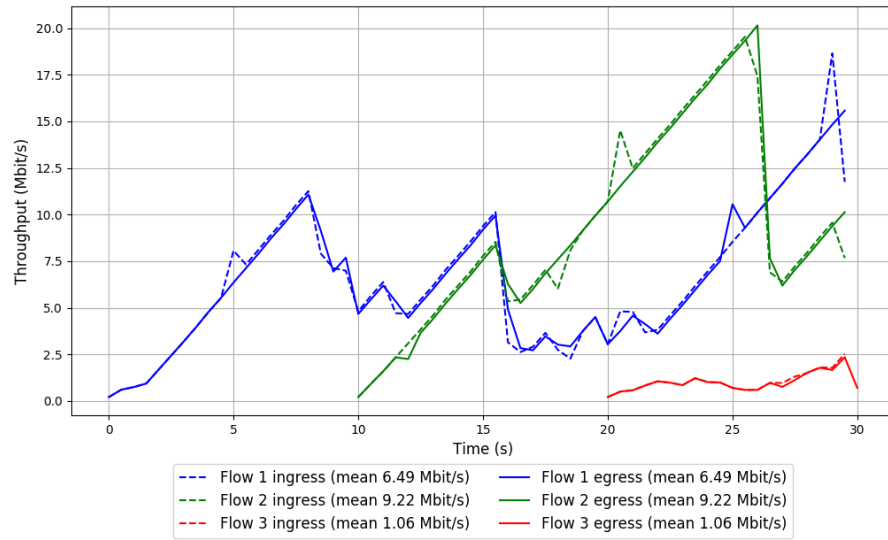
-- Flow 3:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 61.484 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-22 06:08:22

End at: 2017-11-22 06:08:52

Below is generated by plot.py at 2017-11-22 07:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.95 Mbit/s

95th percentile per-packet one-way delay: 64.203 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 64.167 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 8.38 Mbit/s

95th percentile per-packet one-way delay: 64.298 ms

Loss rate: 0.00%

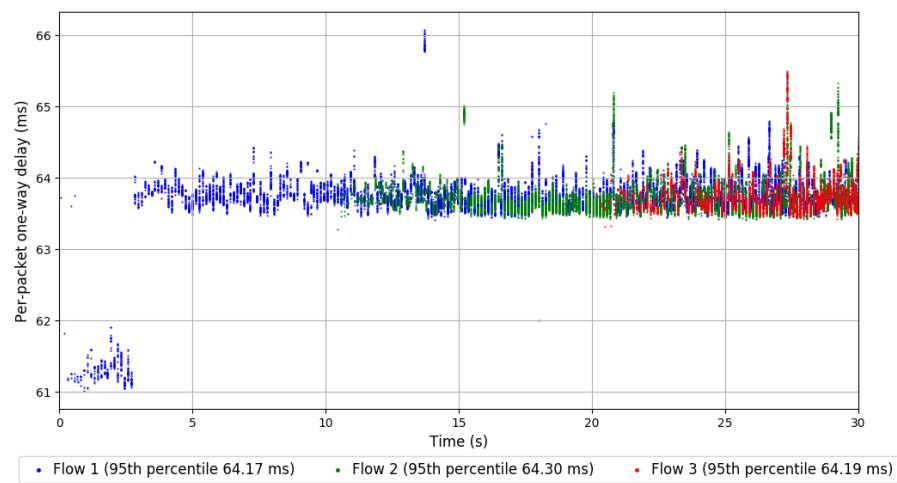
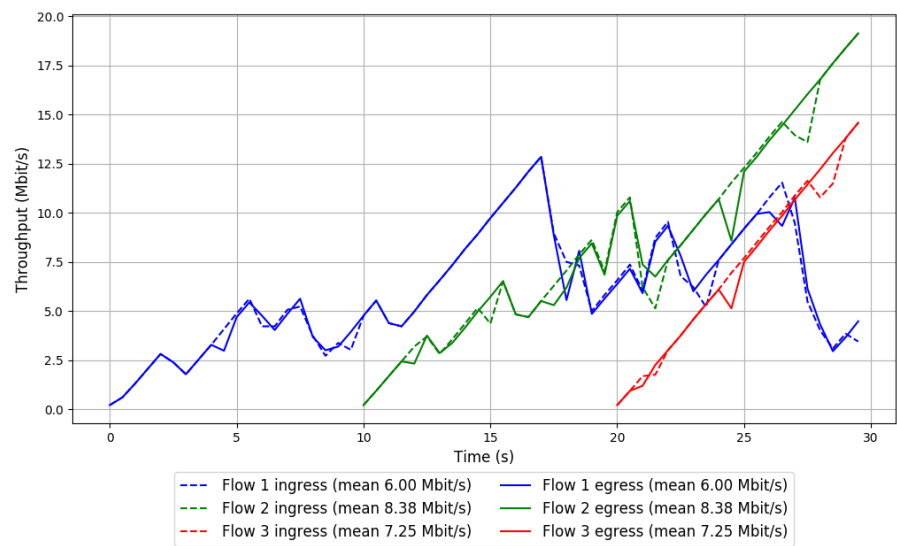
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 64.191 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

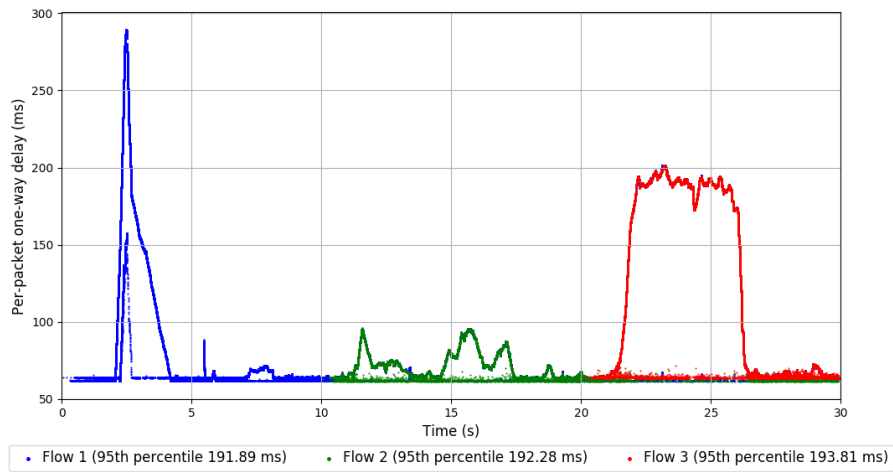
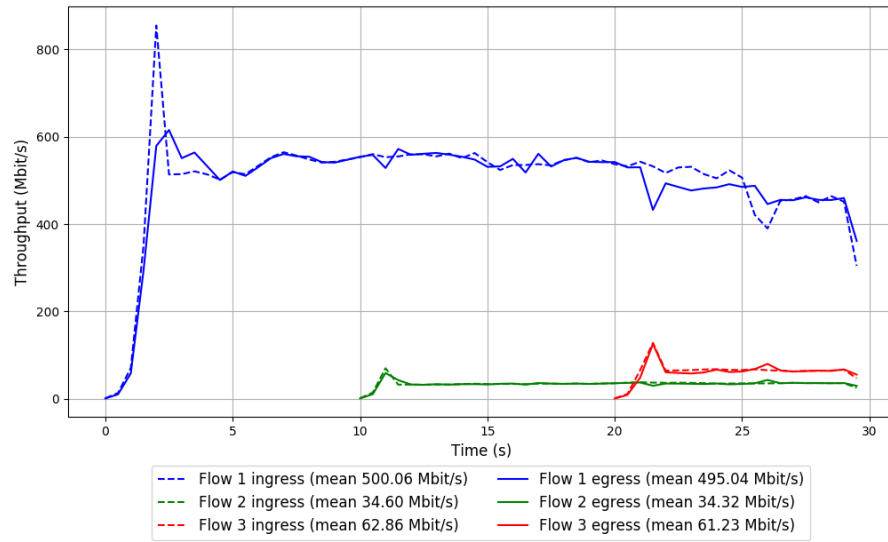


```
Run 1: Statistics of PCC

Start at: 2017-11-22 04:12:48
End at: 2017-11-22 04:13:18

# Below is generated by plot.py at 2017-11-22 07:51:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.97 Mbit/s
95th percentile per-packet one-way delay: 192.062 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 495.04 Mbit/s
95th percentile per-packet one-way delay: 191.894 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 192.282 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 193.807 ms
Loss rate: 2.62%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-22 04:25:13

End at: 2017-11-22 04:25:43

Below is generated by plot.py at 2017-11-22 07:51:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 547.34 Mbit/s

95th percentile per-packet one-way delay: 192.780 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 503.66 Mbit/s

95th percentile per-packet one-way delay: 192.587 ms

Loss rate: 2.64%

-- Flow 2:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 193.944 ms

Loss rate: 2.51%

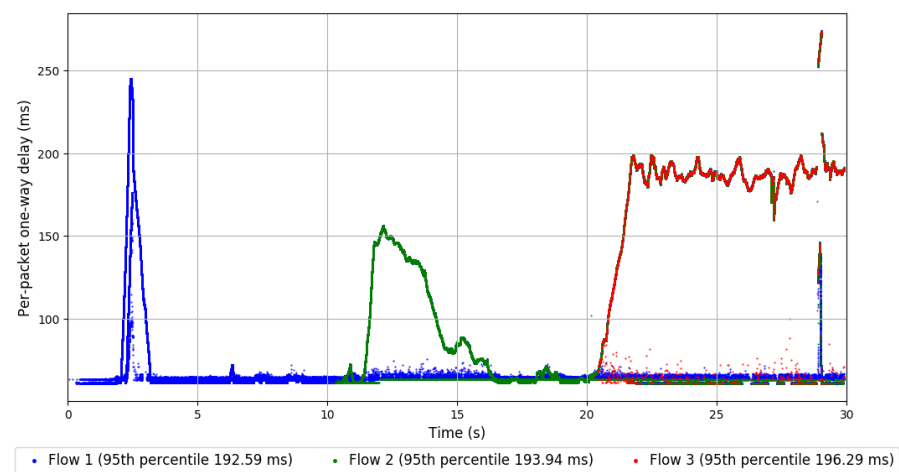
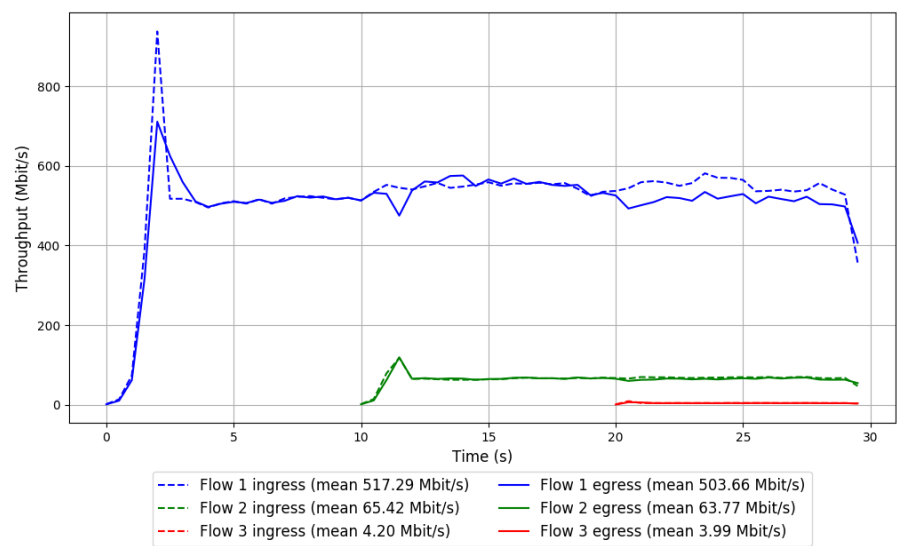
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 196.294 ms

Loss rate: 5.22%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-22 04:37:36

End at: 2017-11-22 04:38:06

Below is generated by plot.py at 2017-11-22 07:51:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.18 Mbit/s

95th percentile per-packet one-way delay: 166.488 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 525.76 Mbit/s

95th percentile per-packet one-way delay: 166.816 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 147.360 ms

Loss rate: 0.36%

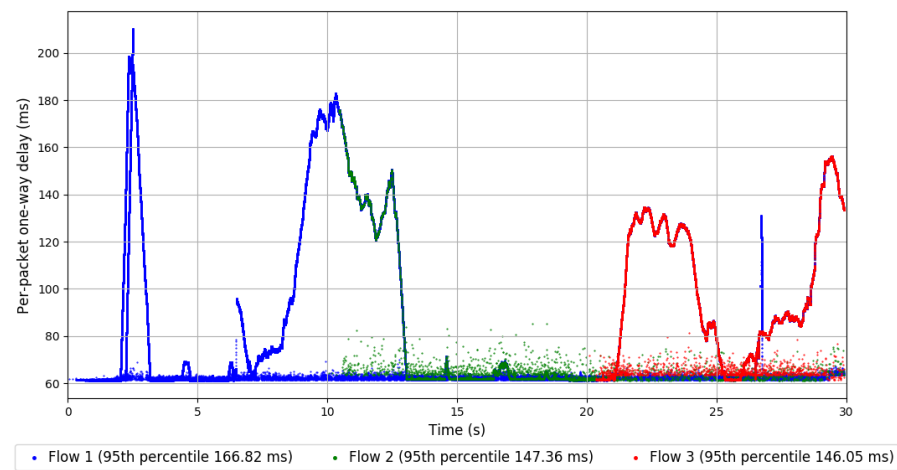
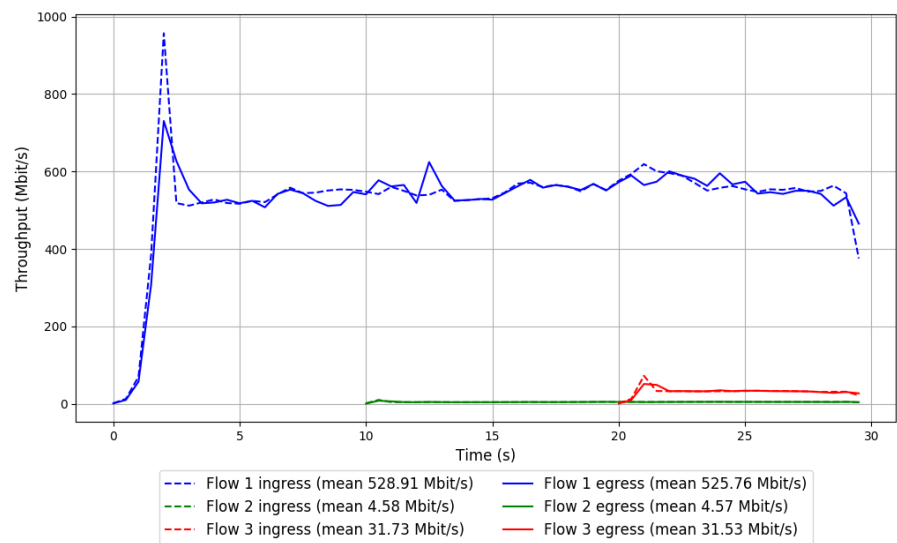
-- Flow 3:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 146.048 ms

Loss rate: 0.70%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-22 04:49:41

End at: 2017-11-22 04:50:11

Below is generated by plot.py at 2017-11-22 07:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.74 Mbit/s

95th percentile per-packet one-way delay: 198.023 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 456.86 Mbit/s

95th percentile per-packet one-way delay: 197.995 ms

Loss rate: 3.89%

-- Flow 2:

Average throughput: 132.42 Mbit/s

95th percentile per-packet one-way delay: 199.213 ms

Loss rate: 3.10%

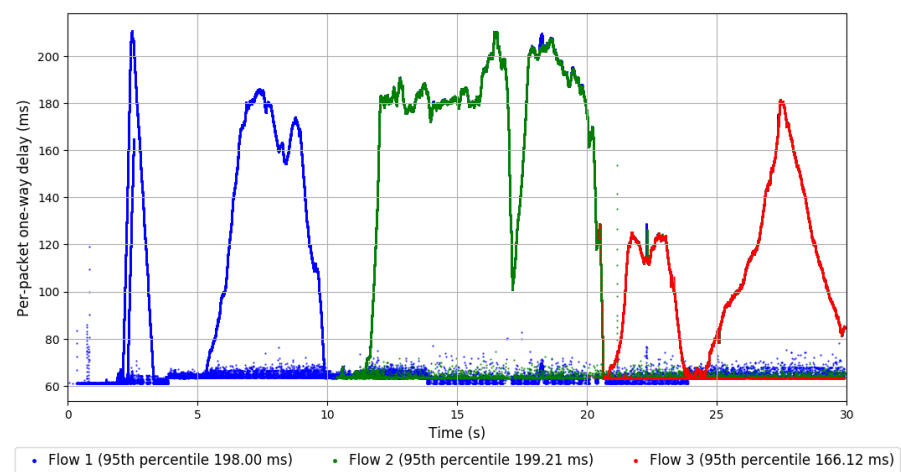
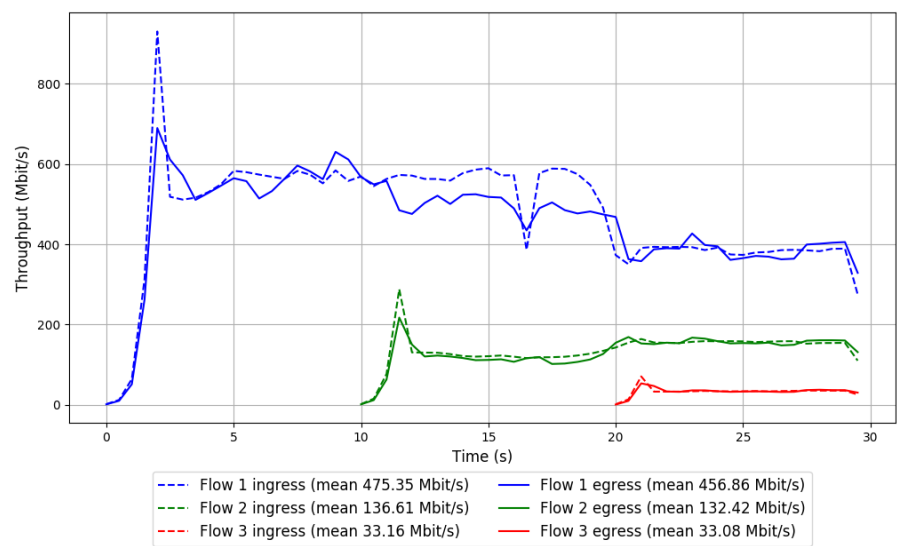
-- Flow 3:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 166.115 ms

Loss rate: 0.25%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-22 05:02:04

End at: 2017-11-22 05:02:34

Below is generated by plot.py at 2017-11-22 07:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 512.05 Mbit/s

95th percentile per-packet one-way delay: 206.376 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 436.01 Mbit/s

95th percentile per-packet one-way delay: 205.607 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 59.53 Mbit/s

95th percentile per-packet one-way delay: 207.605 ms

Loss rate: 2.53%

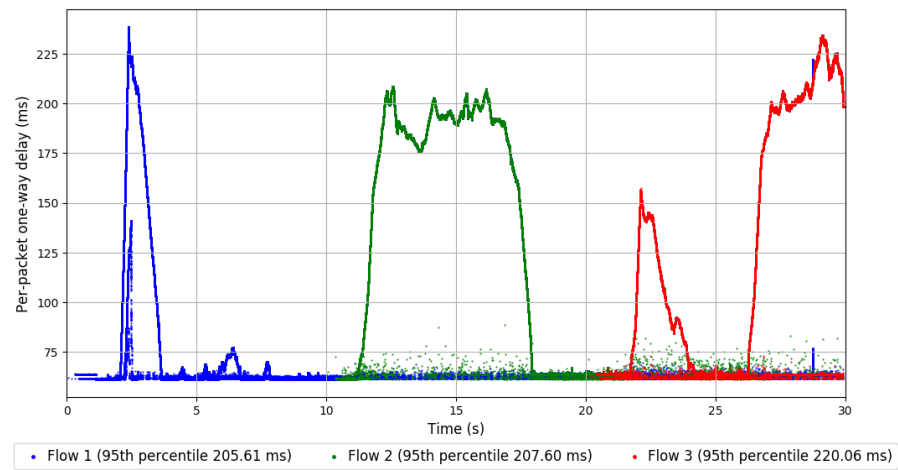
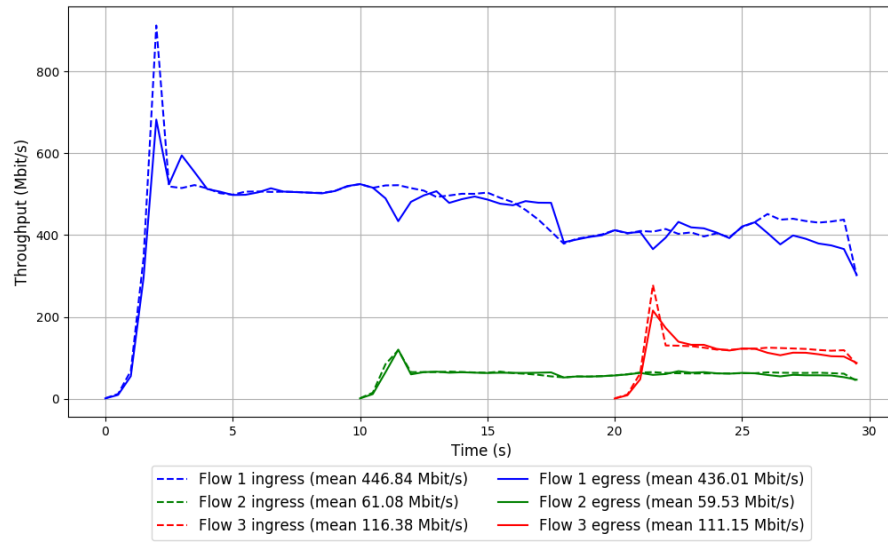
-- Flow 3:

Average throughput: 111.15 Mbit/s

95th percentile per-packet one-way delay: 220.056 ms

Loss rate: 4.44%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-22 05:14:30

End at: 2017-11-22 05:15:00

Below is generated by plot.py at 2017-11-22 07:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.32 Mbit/s

95th percentile per-packet one-way delay: 163.881 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 453.71 Mbit/s

95th percentile per-packet one-way delay: 164.801 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 159.935 ms

Loss rate: 0.01%

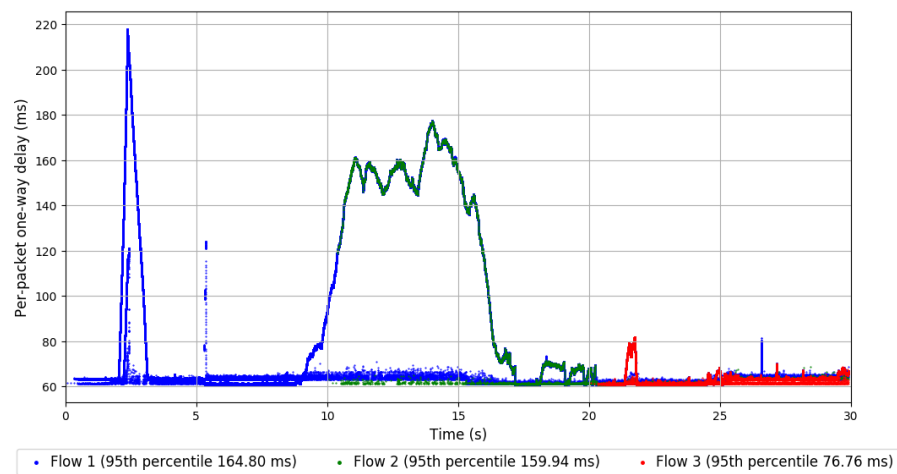
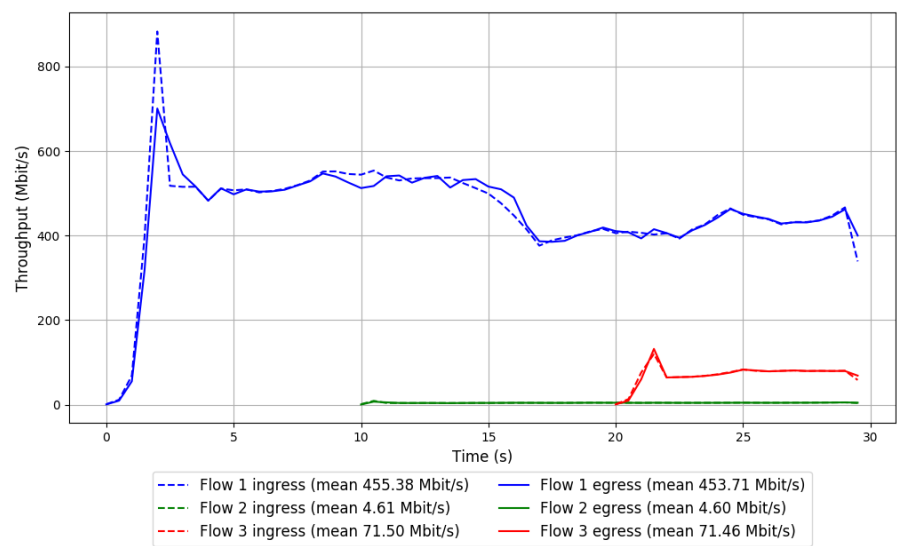
-- Flow 3:

Average throughput: 71.46 Mbit/s

95th percentile per-packet one-way delay: 76.761 ms

Loss rate: 0.02%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-22 05:26:48

End at: 2017-11-22 05:27:18

Below is generated by plot.py at 2017-11-22 07:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.87 Mbit/s

95th percentile per-packet one-way delay: 207.848 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 464.50 Mbit/s

95th percentile per-packet one-way delay: 208.827 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 203.147 ms

Loss rate: 0.93%

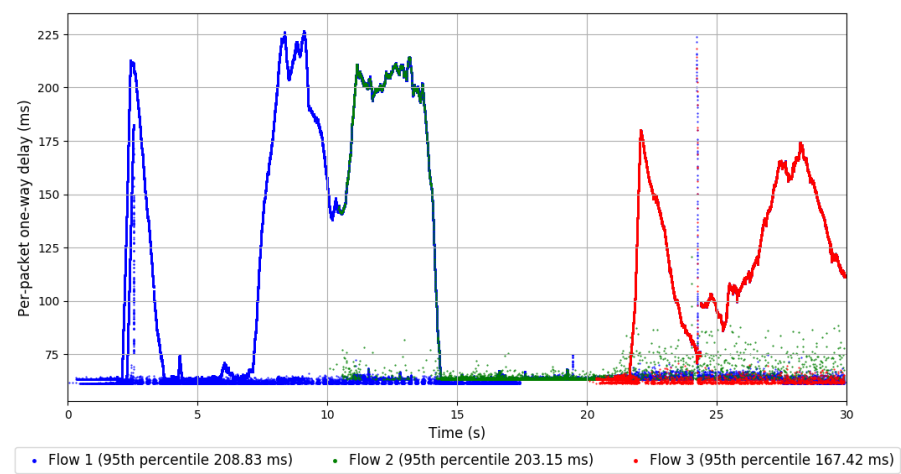
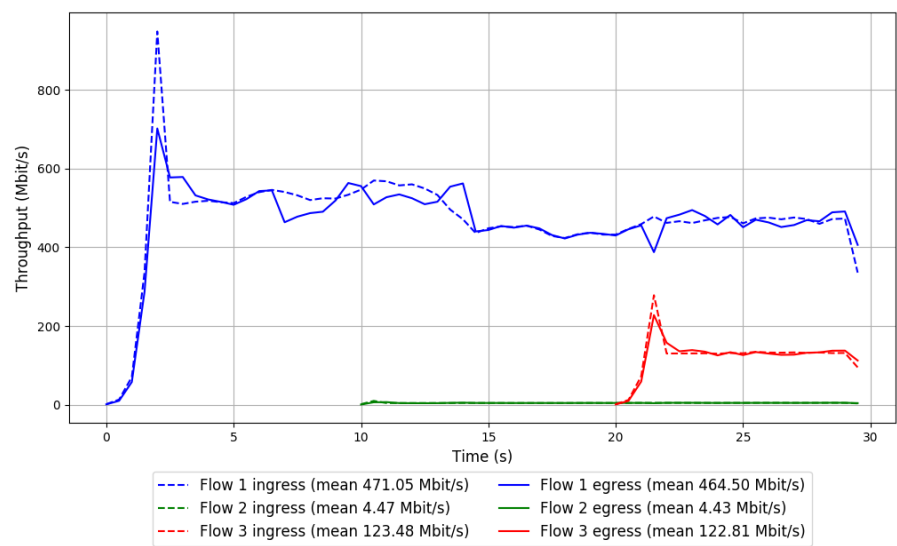
-- Flow 3:

Average throughput: 122.81 Mbit/s

95th percentile per-packet one-way delay: 167.422 ms

Loss rate: 0.54%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-22 05:39:01

End at: 2017-11-22 05:39:31

Below is generated by plot.py at 2017-11-22 07:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.45 Mbit/s

95th percentile per-packet one-way delay: 178.536 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 479.61 Mbit/s

95th percentile per-packet one-way delay: 178.231 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 177.551 ms

Loss rate: 0.38%

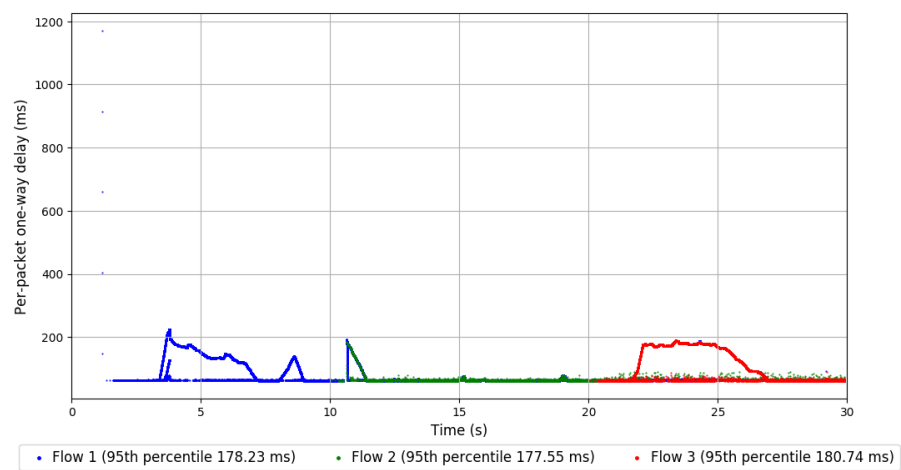
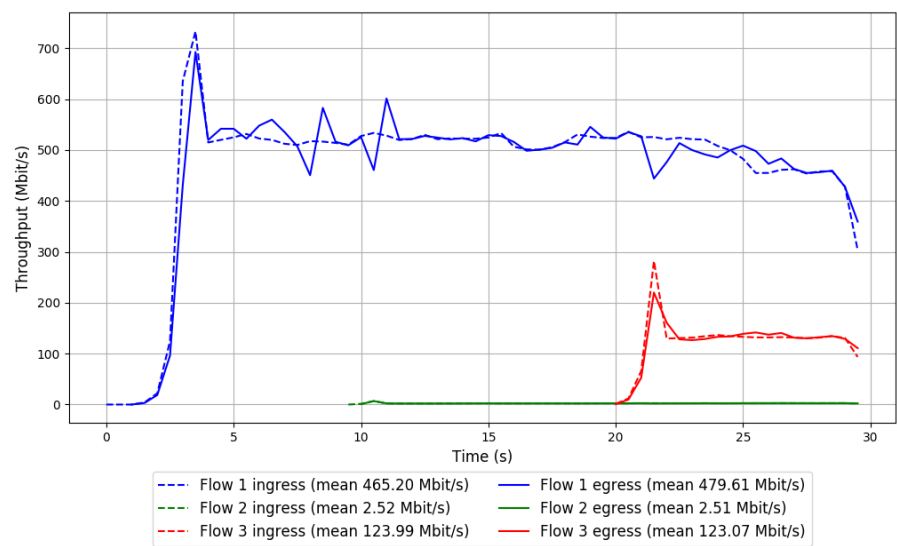
-- Flow 3:

Average throughput: 123.07 Mbit/s

95th percentile per-packet one-way delay: 180.741 ms

Loss rate: 0.75%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-22 05:51:09

End at: 2017-11-22 05:51:39

Below is generated by plot.py at 2017-11-22 08:01:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 566.00 Mbit/s

95th percentile per-packet one-way delay: 194.648 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 554.03 Mbit/s

95th percentile per-packet one-way delay: 194.647 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 16.98 Mbit/s

95th percentile per-packet one-way delay: 194.945 ms

Loss rate: 1.56%

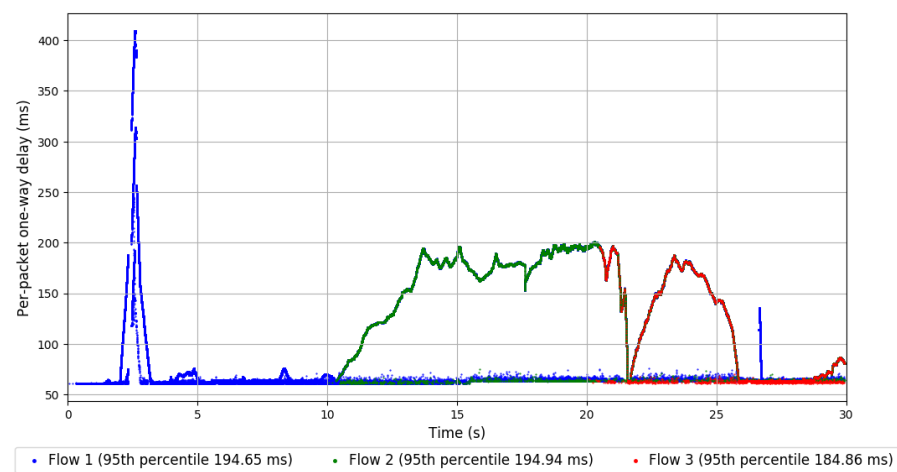
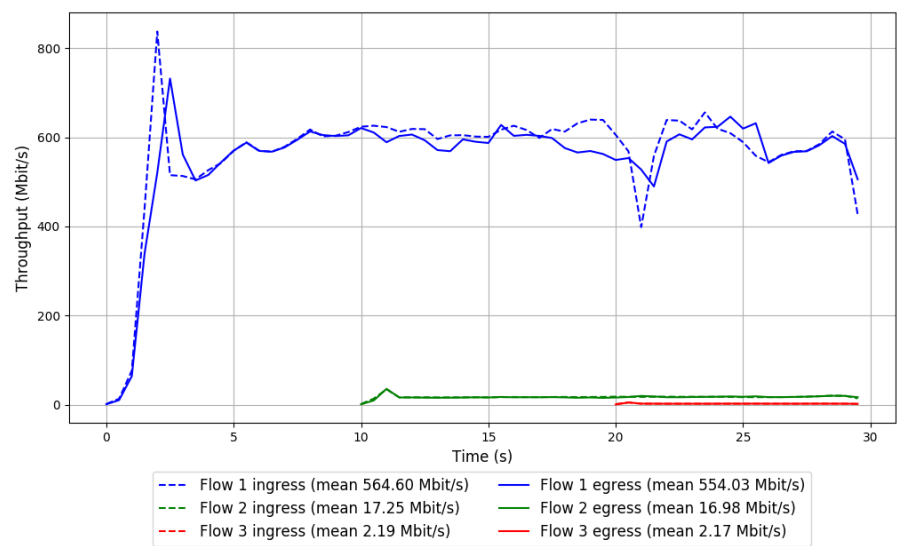
-- Flow 3:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 184.863 ms

Loss rate: 0.95%

Run 9: Report of PCC — Data Link

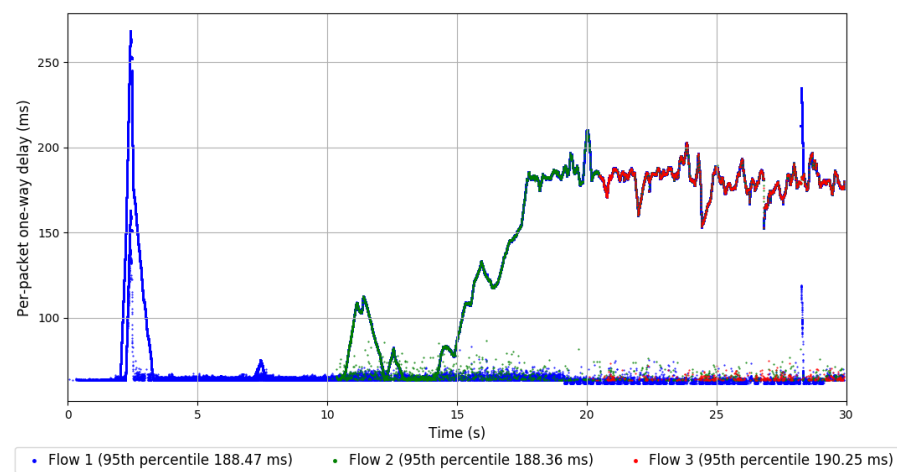
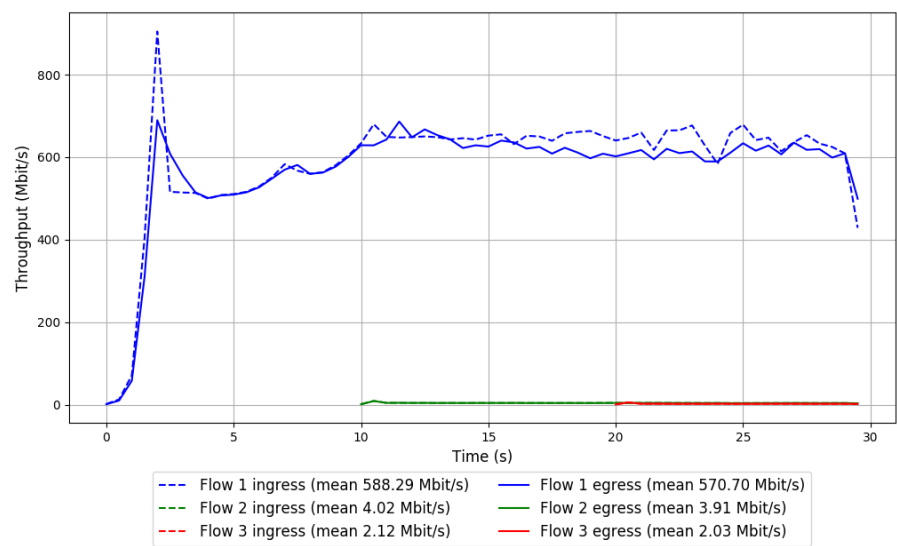


```
Run 10: Statistics of PCC

Start at: 2017-11-22 06:03:16
End at: 2017-11-22 06:03:46

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 573.96 Mbit/s
95th percentile per-packet one-way delay: 188.475 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 570.70 Mbit/s
95th percentile per-packet one-way delay: 188.474 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 188.362 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 190.255 ms
Loss rate: 4.32%
```

Run 10: Report of PCC — Data Link

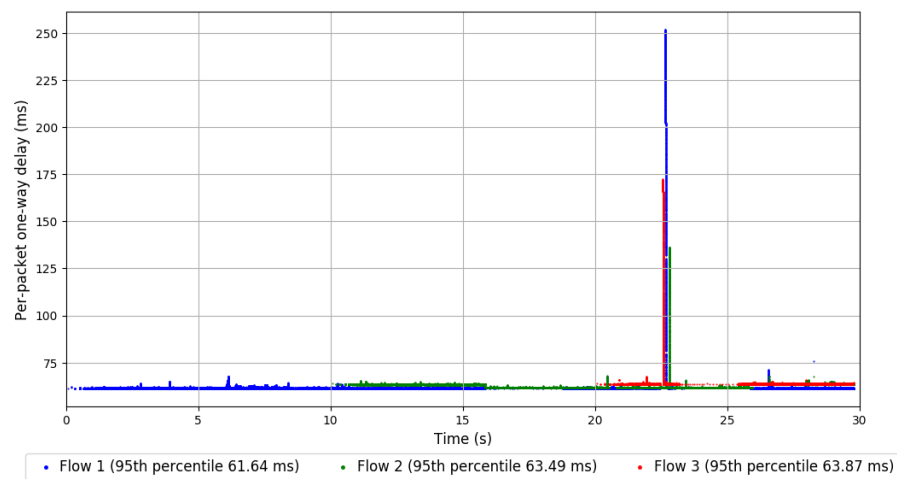
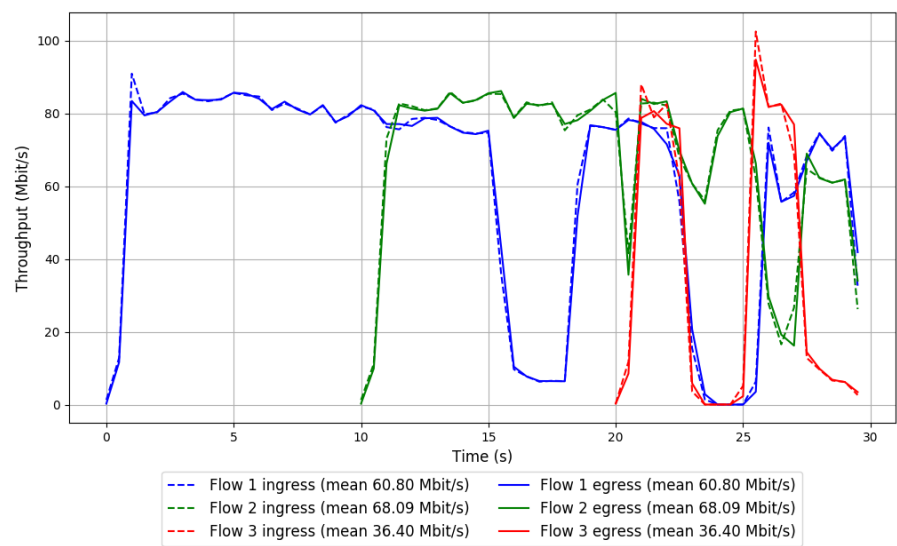


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-22 04:20:19
End at: 2017-11-22 04:20:49

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.83 Mbit/s
95th percentile per-packet one-way delay: 63.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.80 Mbit/s
95th percentile per-packet one-way delay: 61.644 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 63.493 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-22 04:32:43

End at: 2017-11-22 04:33:13

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 62.808 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.00%

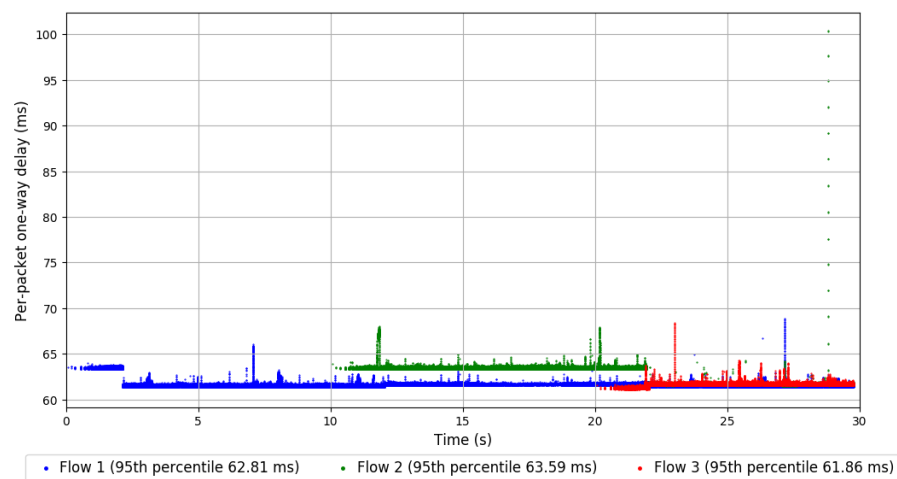
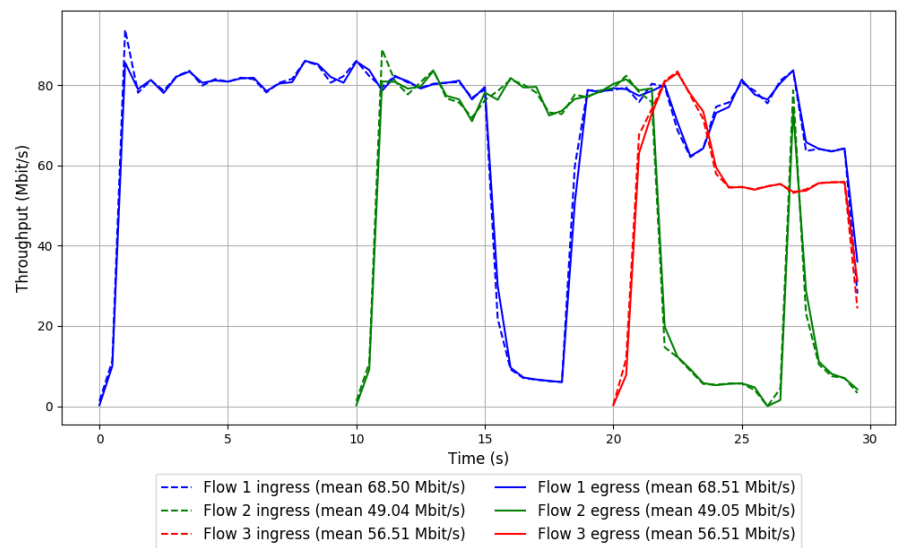
-- Flow 3:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 61.856 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-22 04:44:50

End at: 2017-11-22 04:45:20

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.66 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 63.534 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 61.731 ms

Loss rate: 0.00%

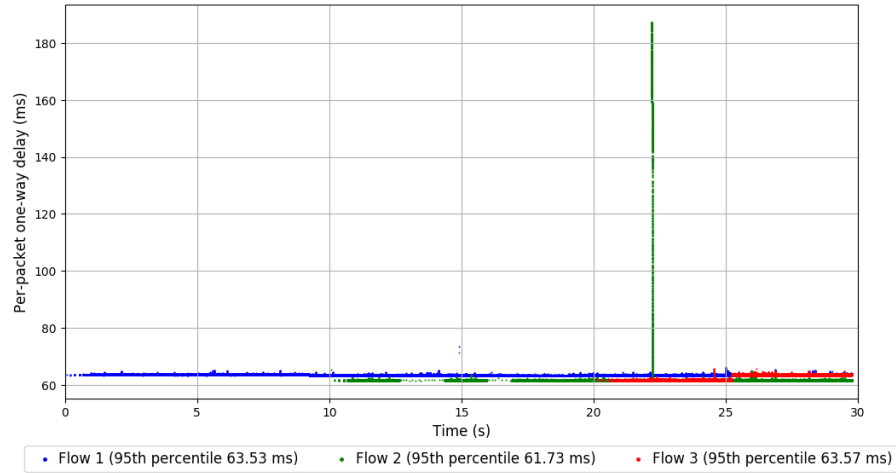
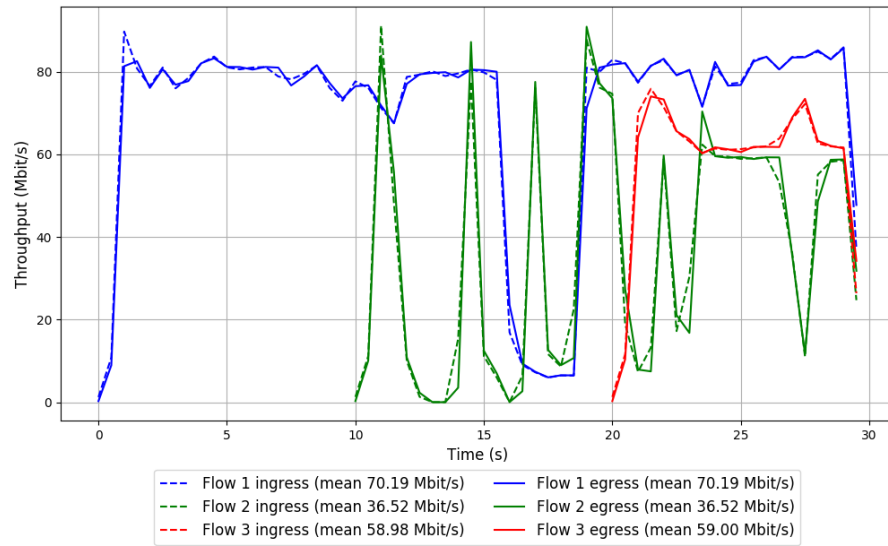
-- Flow 3:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 63.571 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-22 04:57:12

End at: 2017-11-22 04:57:42

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.64 Mbit/s

95th percentile per-packet one-way delay: 63.571 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.68 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.35 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

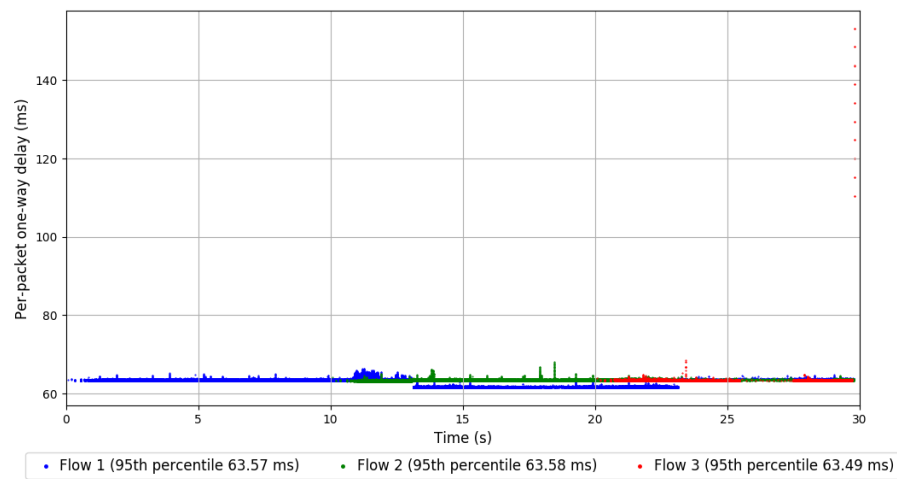
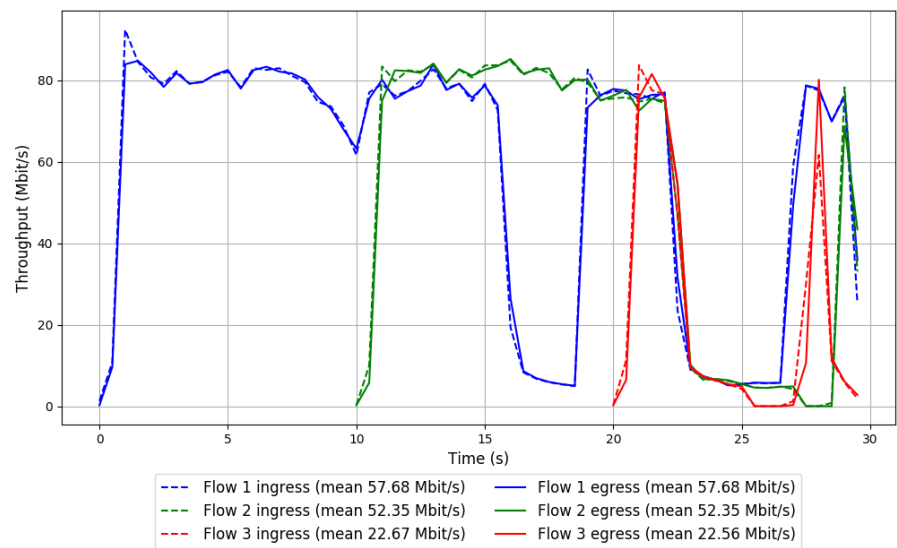
-- Flow 3:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 63.490 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-22 05:09:37

End at: 2017-11-22 05:10:07

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.61 Mbit/s

95th percentile per-packet one-way delay: 63.577 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 63.495 ms

Loss rate: 0.00%

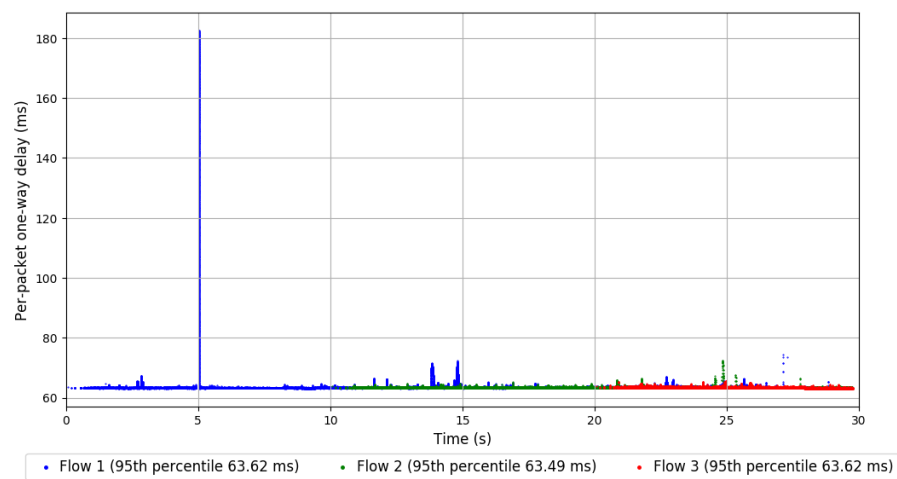
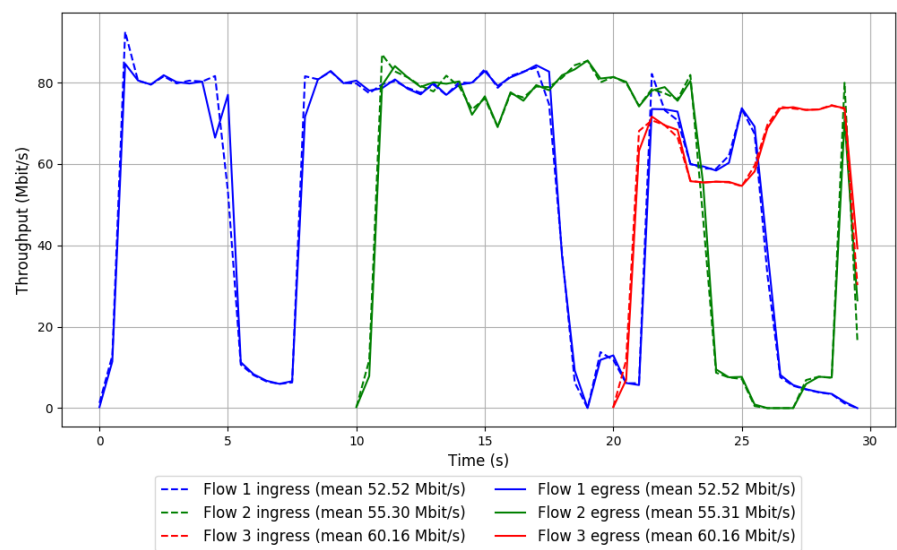
-- Flow 3:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 63.624 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-22 05:21:53

End at: 2017-11-22 05:22:23

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.80 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.32 Mbit/s

95th percentile per-packet one-way delay: 63.540 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.20 Mbit/s

95th percentile per-packet one-way delay: 63.381 ms

Loss rate: 0.00%

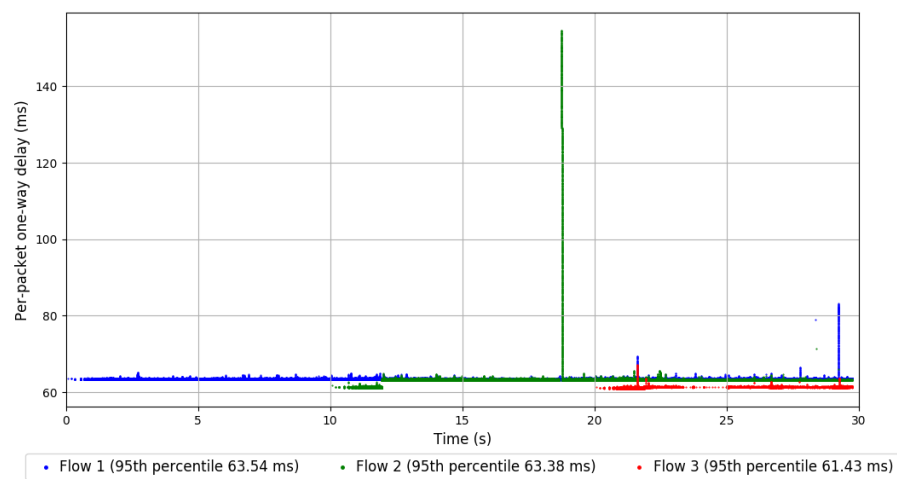
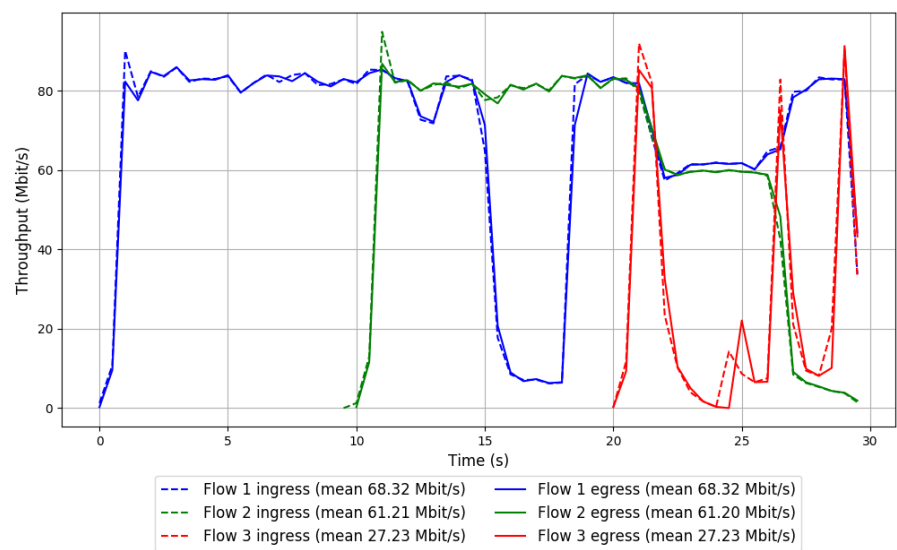
-- Flow 3:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 61.432 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-22 05:34:04

End at: 2017-11-22 05:34:34

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.99 Mbit/s

95th percentile per-packet one-way delay: 63.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 61.372 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.19 Mbit/s

95th percentile per-packet one-way delay: 63.347 ms

Loss rate: 0.00%

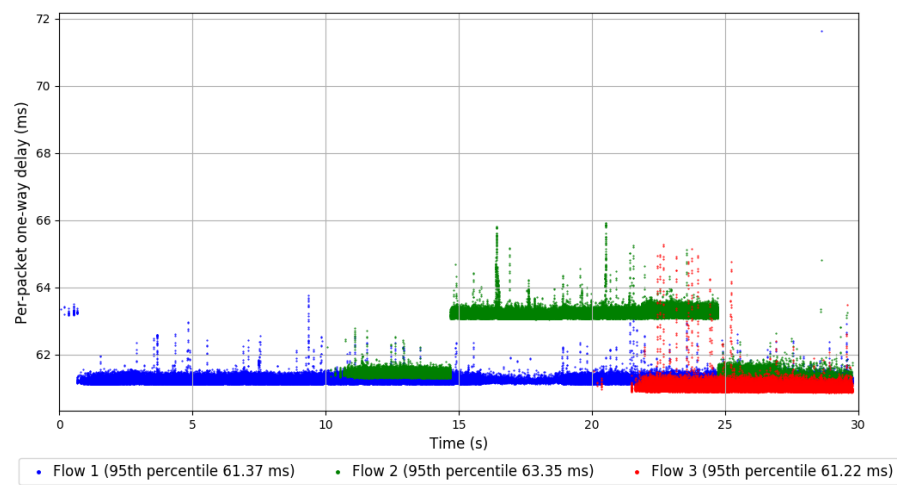
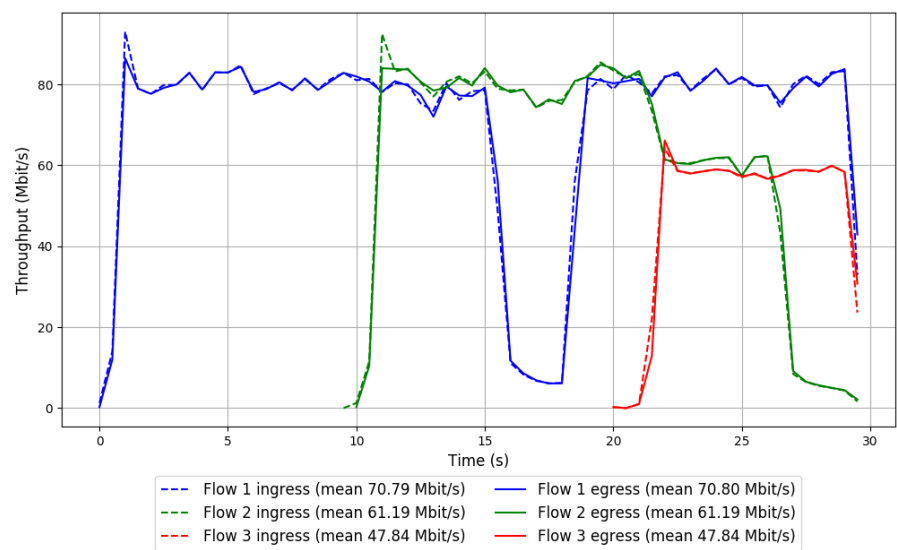
-- Flow 3:

Average throughput: 47.84 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-22 05:46:20

End at: 2017-11-22 05:46:50

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.81 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 63.634 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 63.396 ms

Loss rate: 0.00%

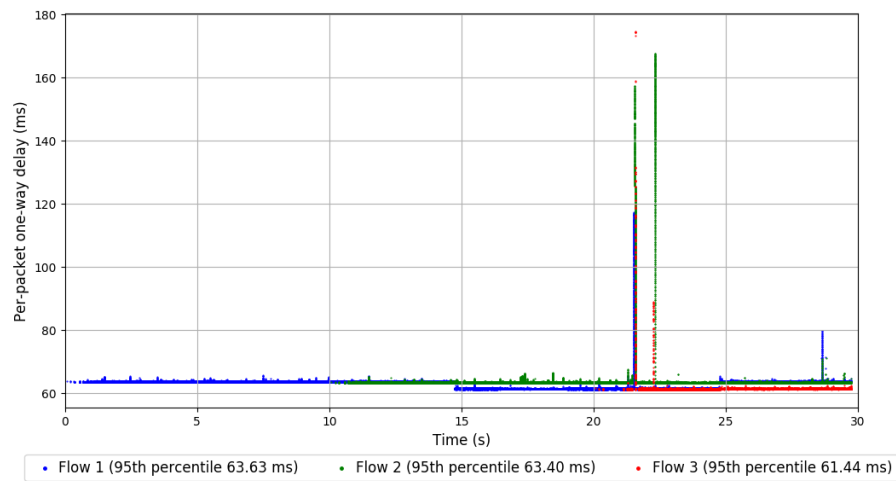
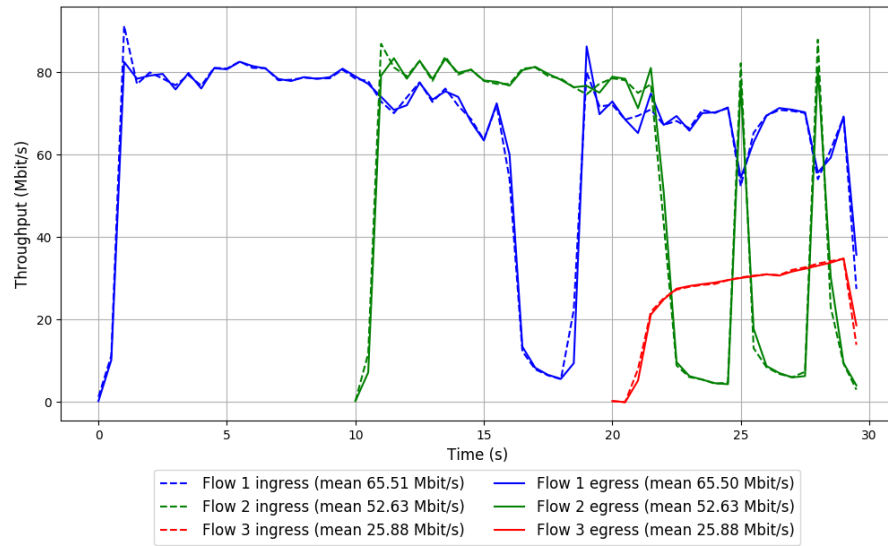
-- Flow 3:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 61.435 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-22 05:58:22

End at: 2017-11-22 05:58:52

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.86 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.79 Mbit/s

95th percentile per-packet one-way delay: 61.405 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 63.405 ms

Loss rate: 0.00%

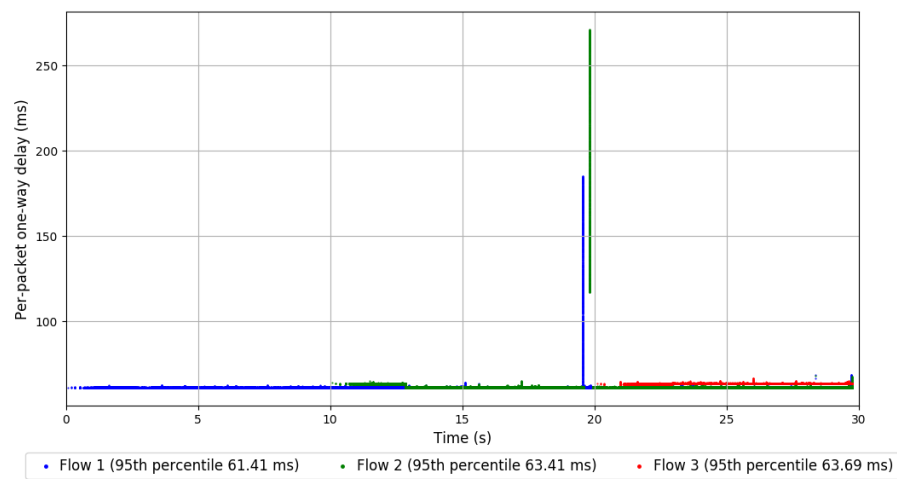
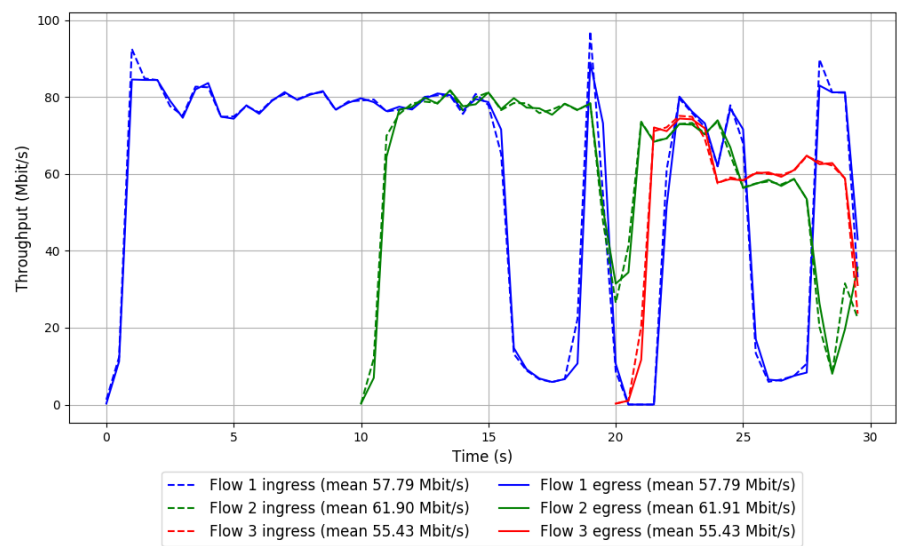
-- Flow 3:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 63.689 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-22 06:10:39

End at: 2017-11-22 06:11:09

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.03 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 62.339 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.33 Mbit/s

95th percentile per-packet one-way delay: 63.262 ms

Loss rate: 0.01%

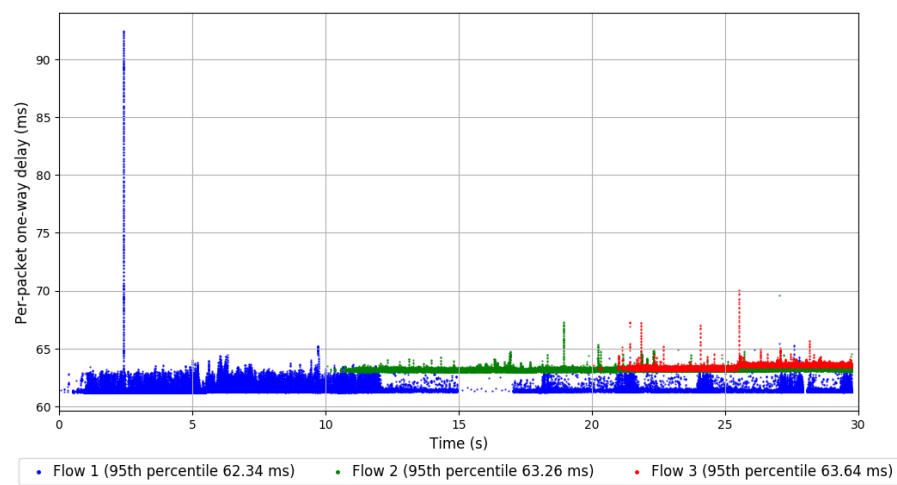
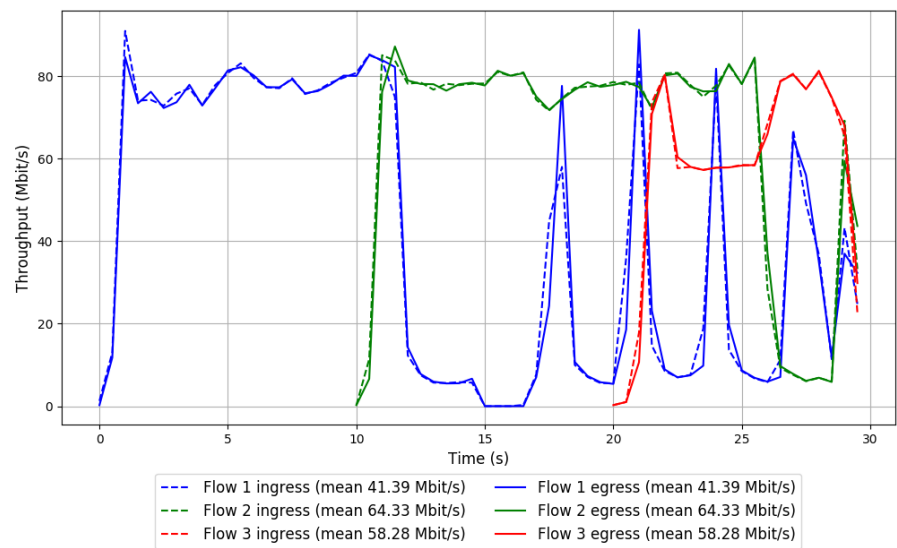
-- Flow 3:

Average throughput: 58.28 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.02%

Run 10: Report of QUIC Cubic — Data Link

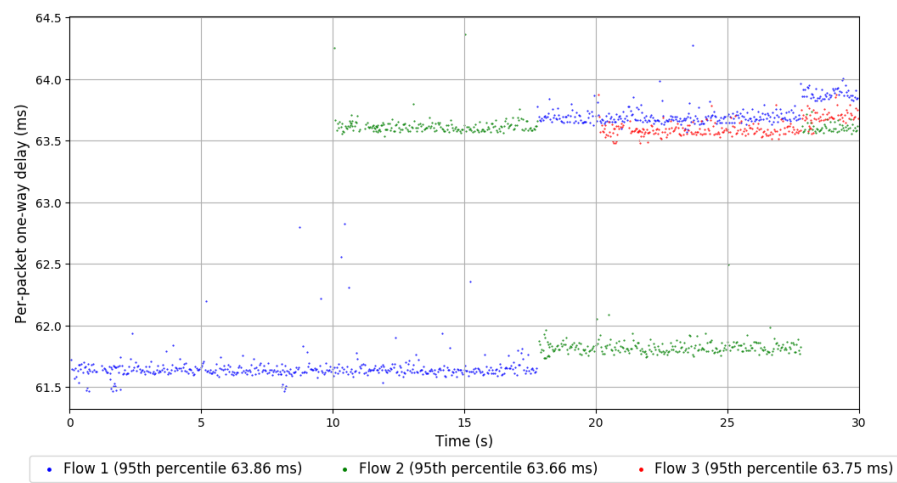
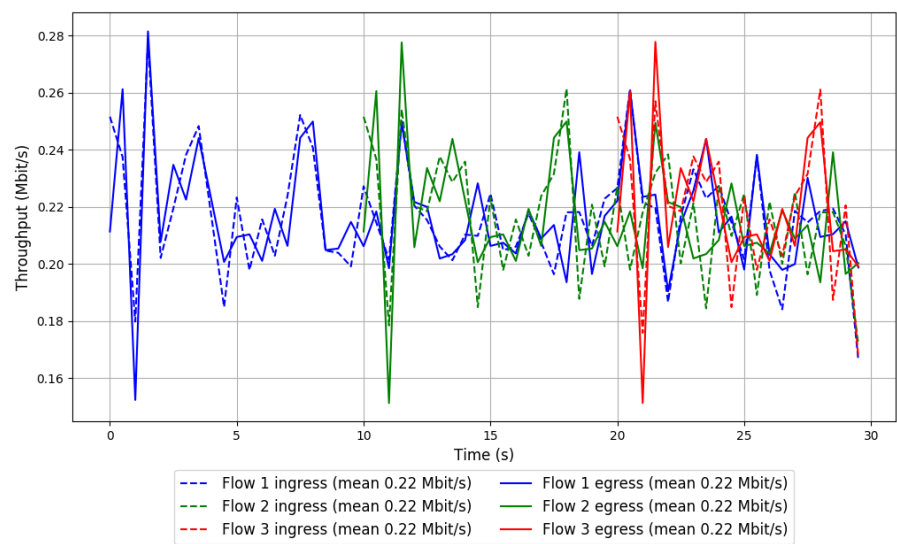


```
Run 1: Statistics of SCReAM

Start at: 2017-11-22 04:12:07
End at: 2017-11-22 04:12:37

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.746 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

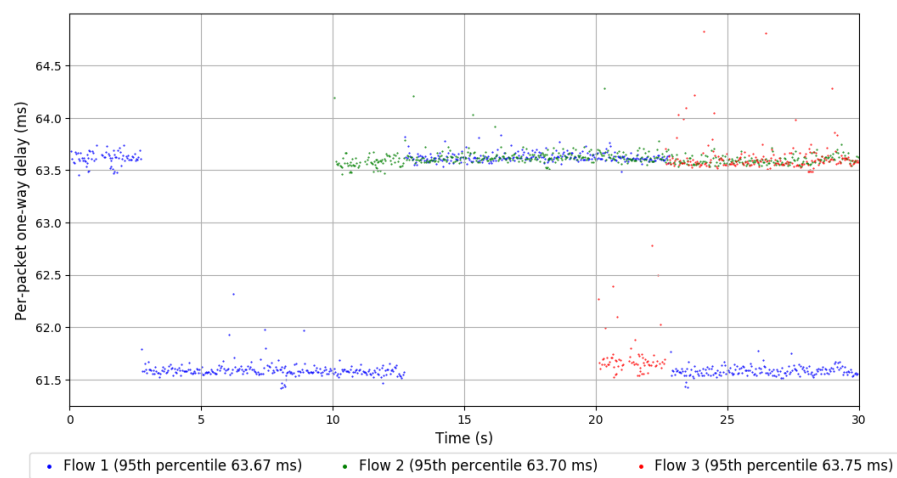
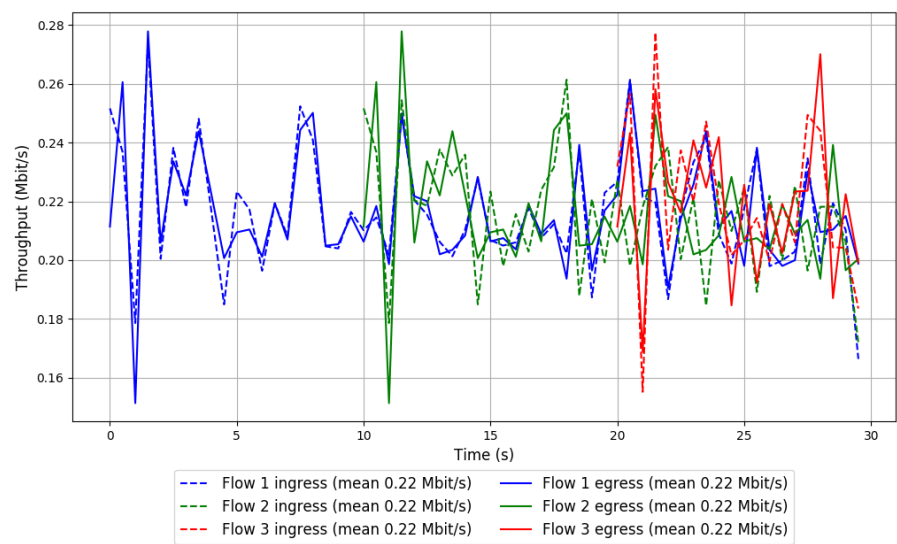


```
Run 2: Statistics of SReAM

Start at: 2017-11-22 04:24:32
End at: 2017-11-22 04:25:02

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.699 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

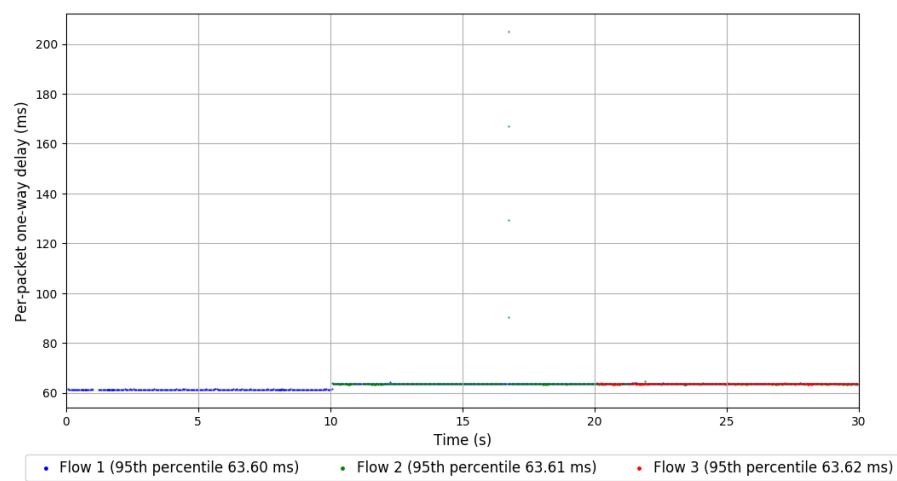
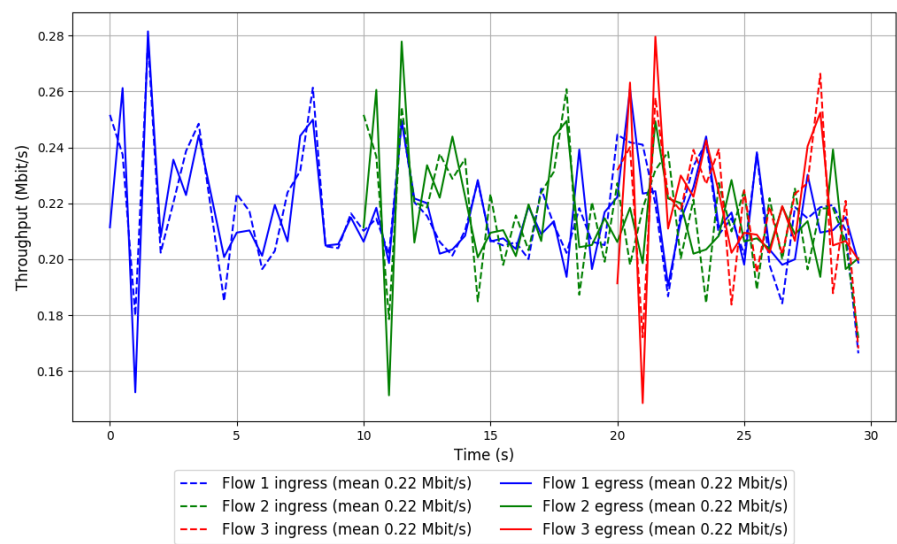


```
Run 3: Statistics of SCReAM

Start at: 2017-11-22 04:36:55
End at: 2017-11-22 04:37:25

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.604 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.623 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

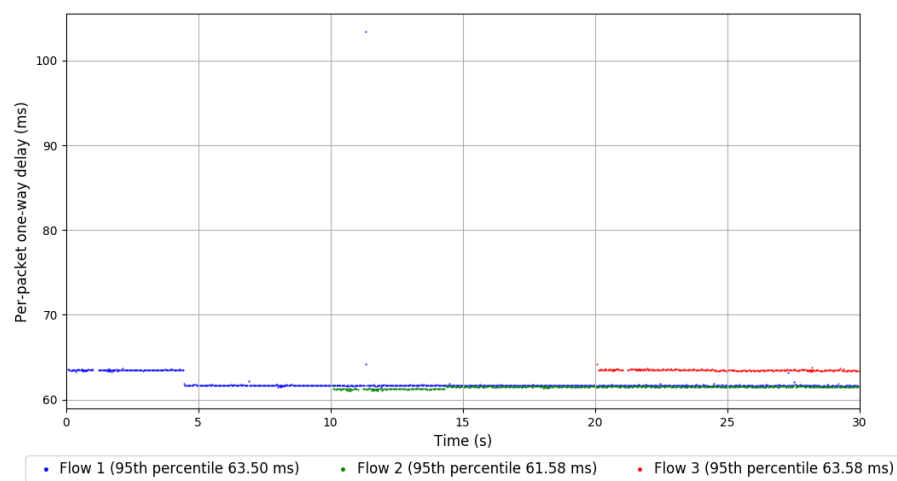
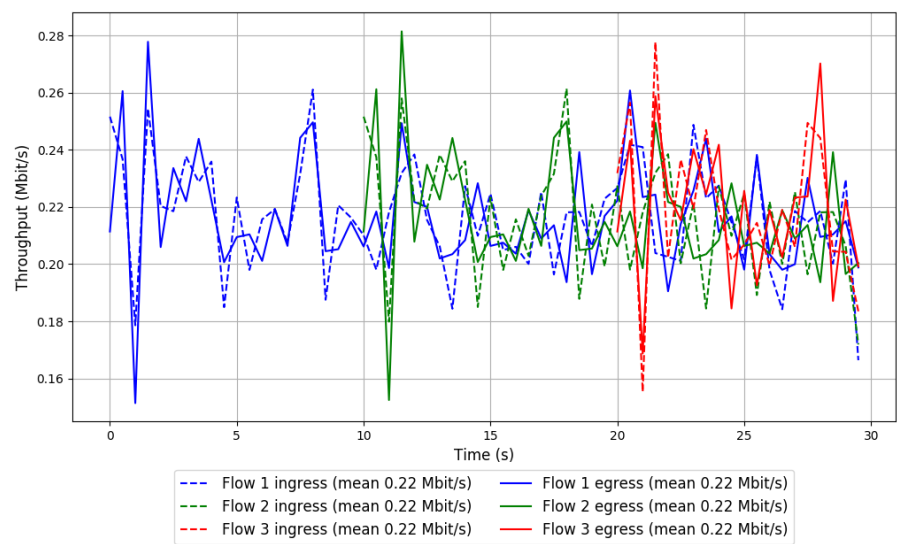


```
Run 4: Statistics of SCReAM

Start at: 2017-11-22 04:49:01
End at: 2017-11-22 04:49:31

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.584 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

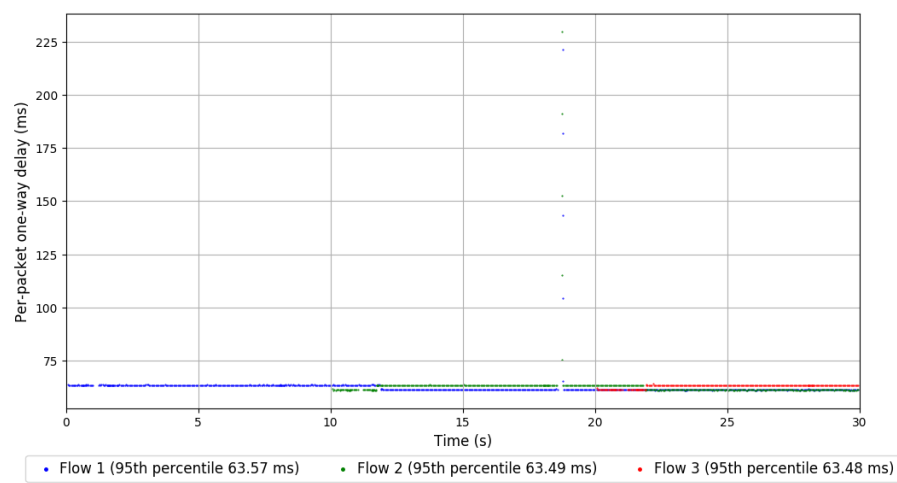
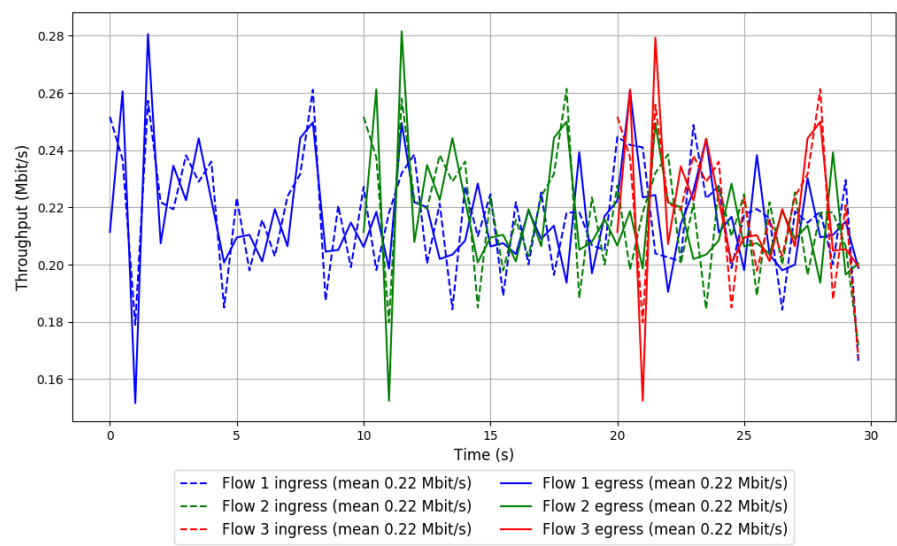


```
Run 5: Statistics of SCReAM

Start at: 2017-11-22 05:01:23
End at: 2017-11-22 05:01:53

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.551 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.487 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-22 05:13:49

End at: 2017-11-22 05:14:19

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.438 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.468 ms

Loss rate: 0.00%

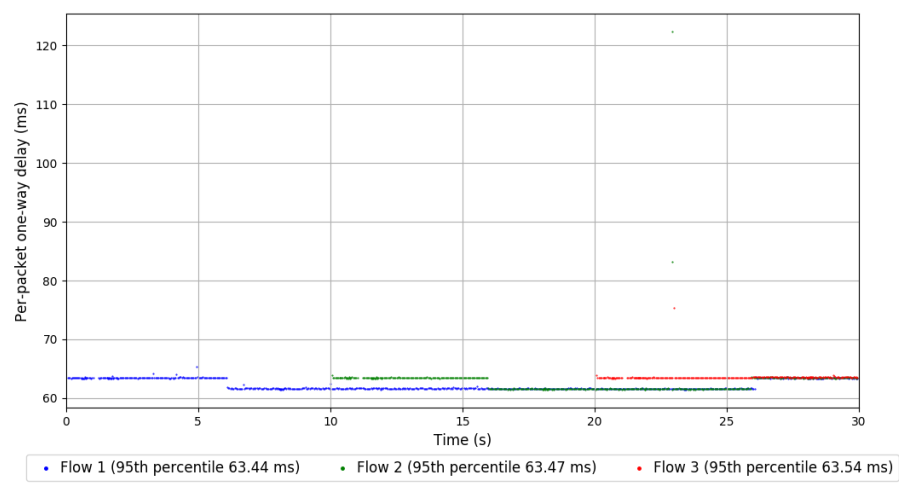
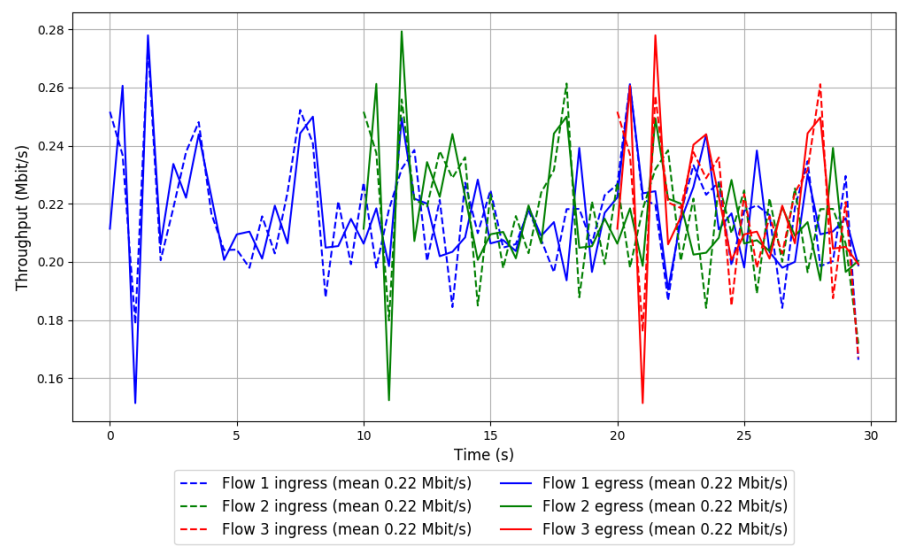
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.542 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

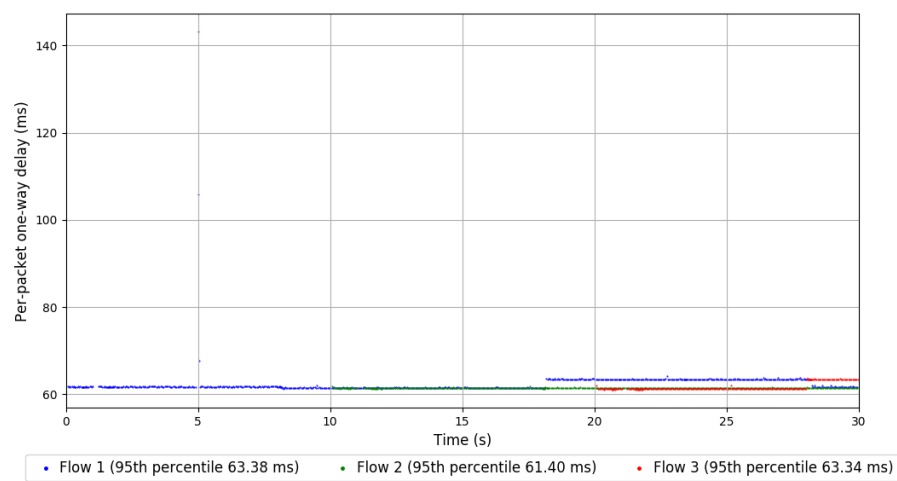
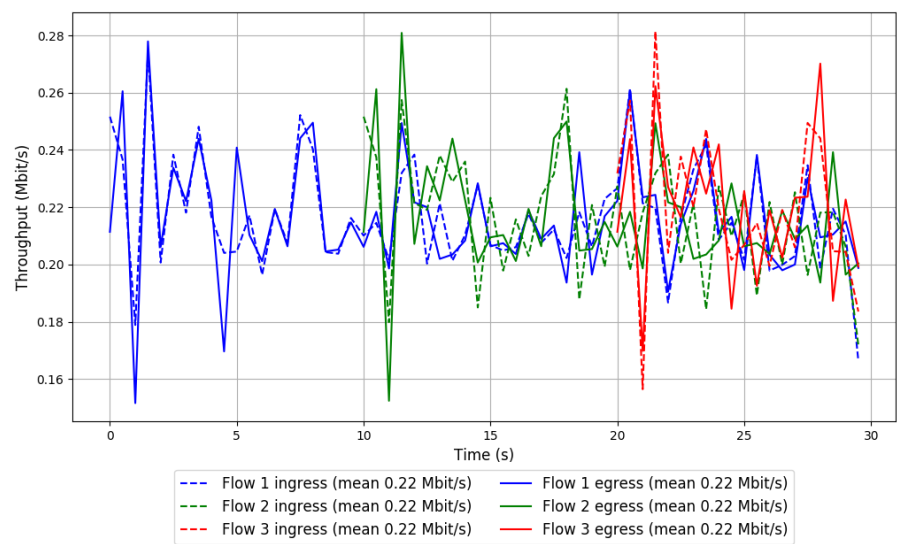


```
Run 7: Statistics of SReAM

Start at: 2017-11-22 05:26:07
End at: 2017-11-22 05:26:37

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.383 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.398 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.344 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-22 05:38:21

End at: 2017-11-22 05:38:51

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 63.462 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.343 ms

Loss rate: 0.00%

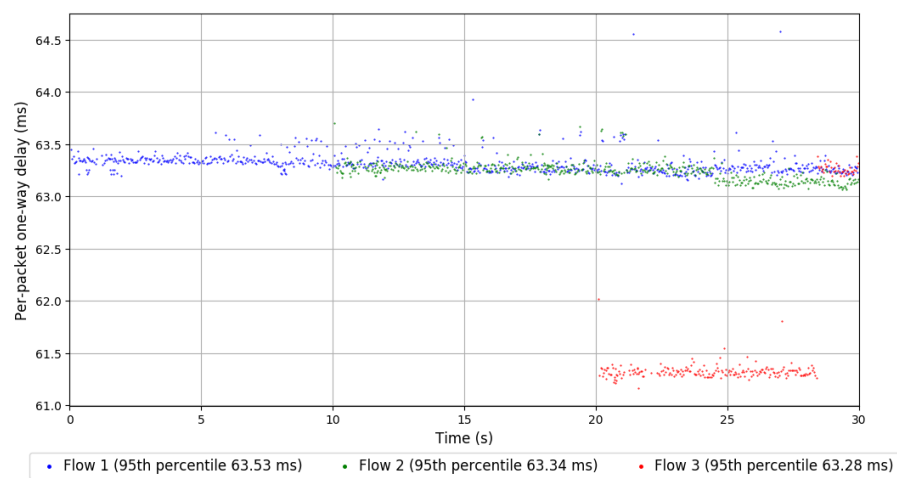
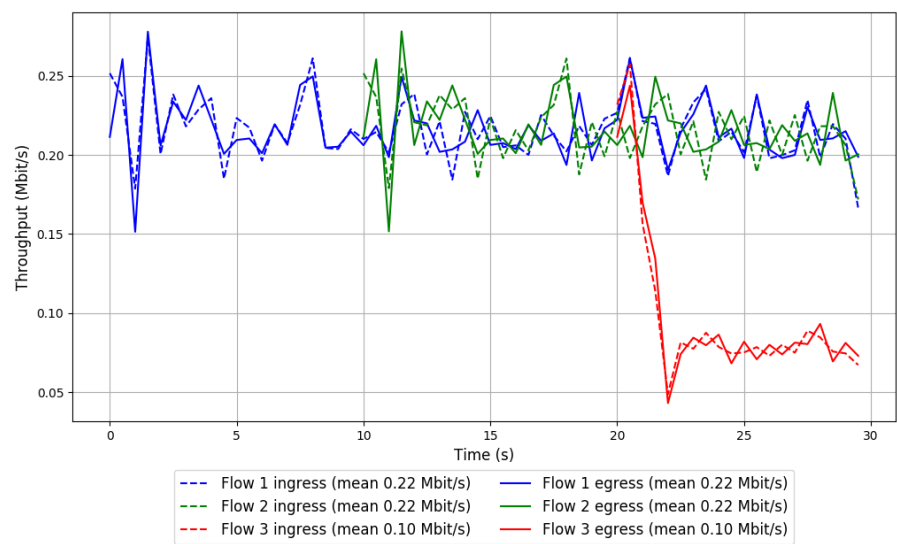
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 63.283 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-22 05:50:29

End at: 2017-11-22 05:50:59

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.388 ms

Loss rate: 0.00%

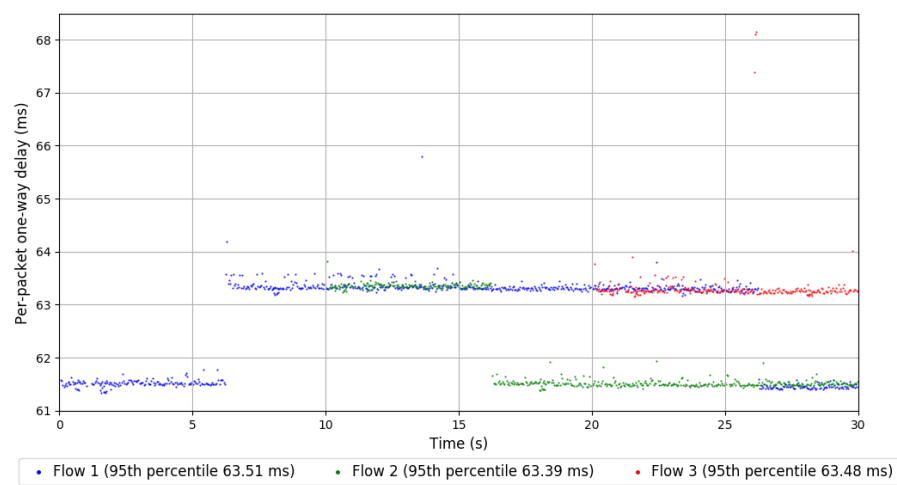
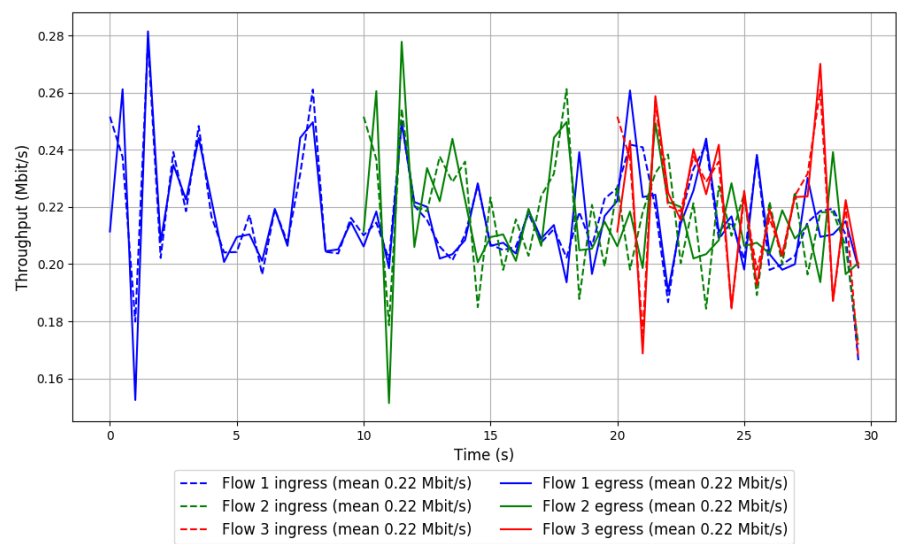
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

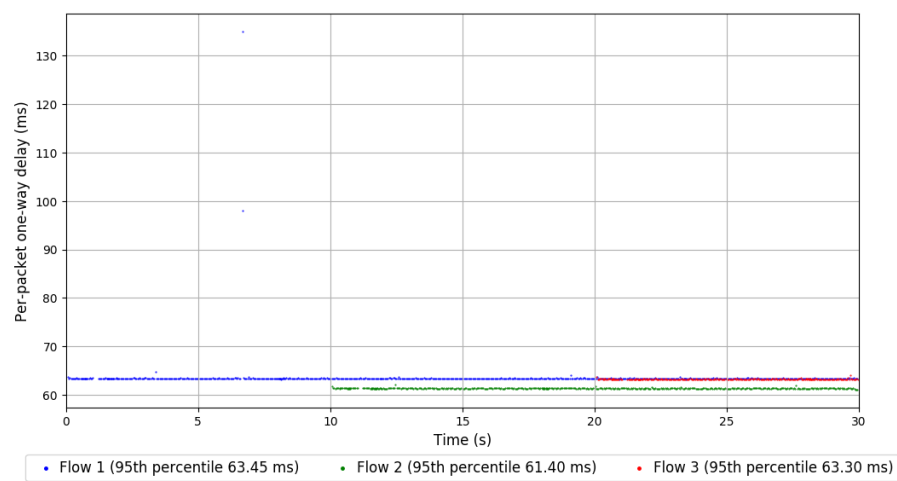
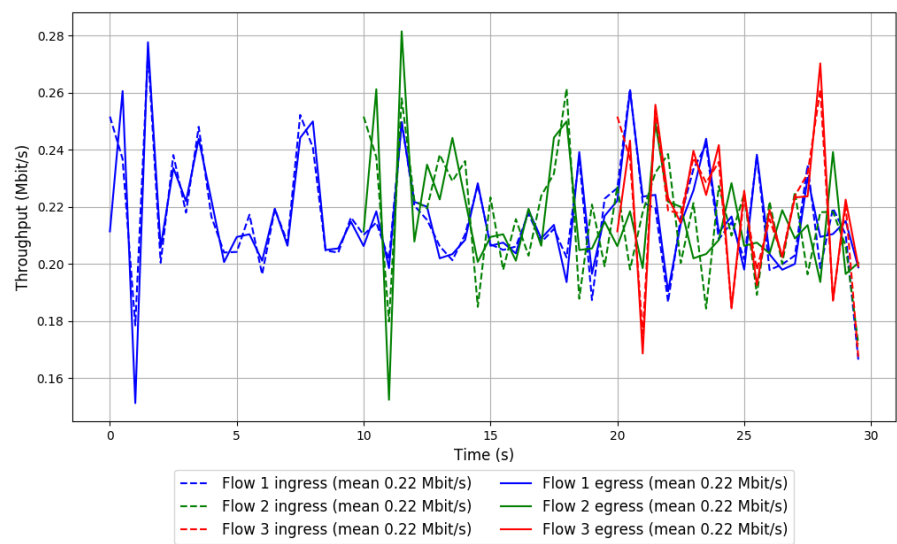


```
Run 10: Statistics of SReAM

Start at: 2017-11-22 06:02:35
End at: 2017-11-22 06:03:05

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.403 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.302 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

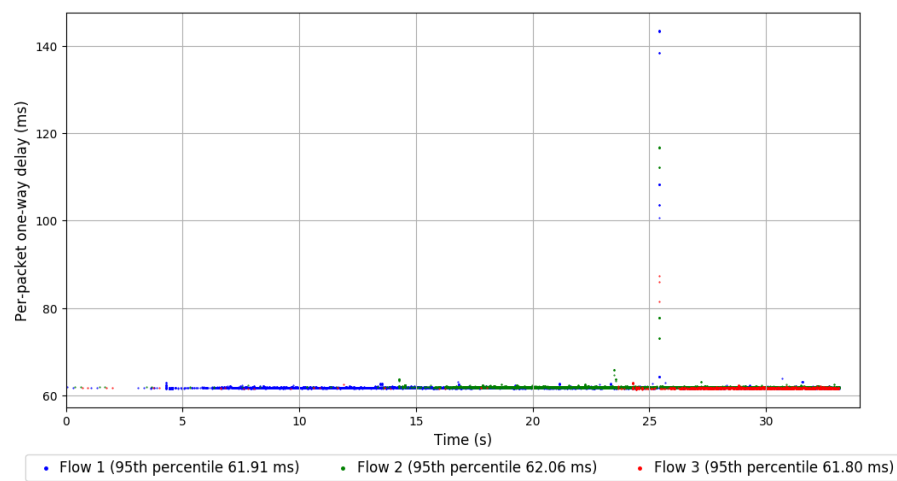
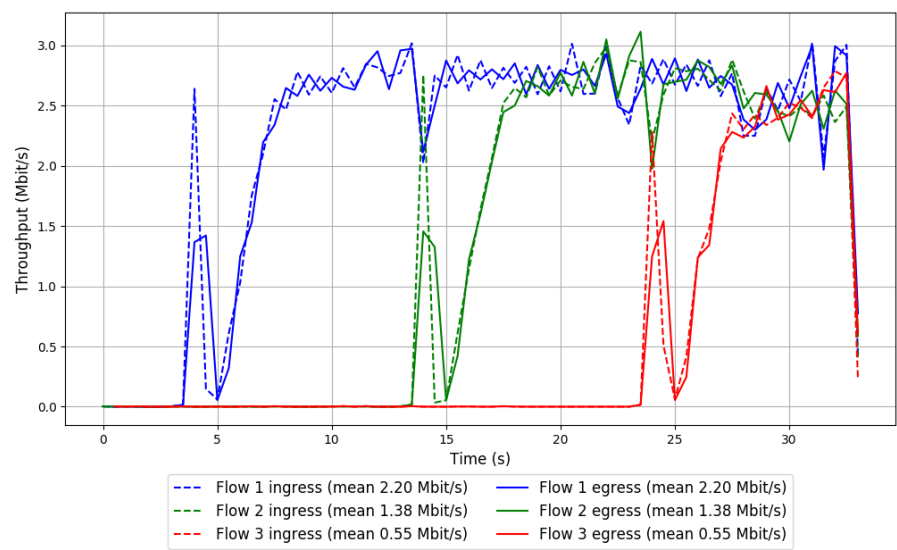


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-22 04:09:50
End at: 2017-11-22 04:10:20

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 61.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 61.913 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 62.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 61.801 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-22 04:22:11

End at: 2017-11-22 04:22:41

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

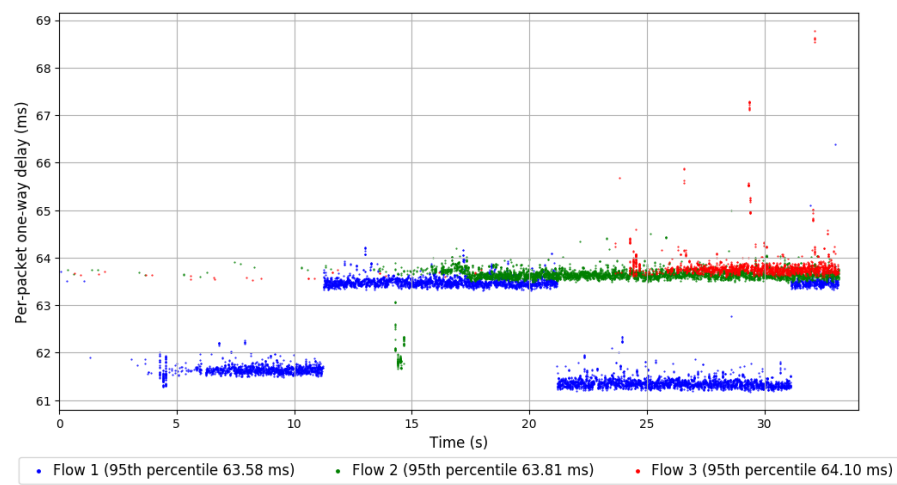
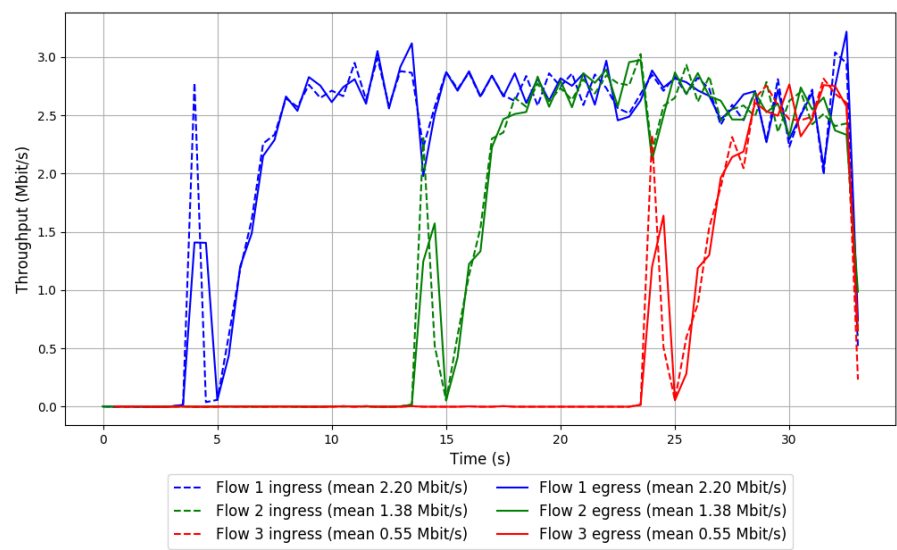
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 64.099 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-22 04:34:35

End at: 2017-11-22 04:35:05

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.00%

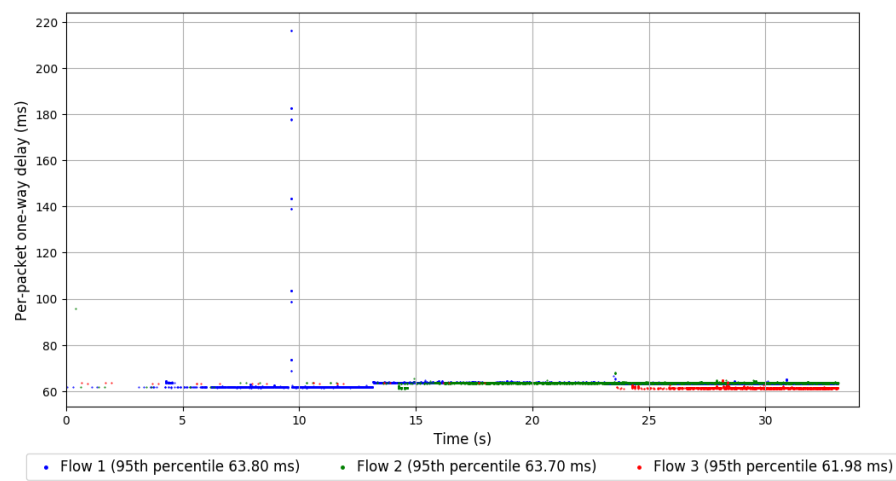
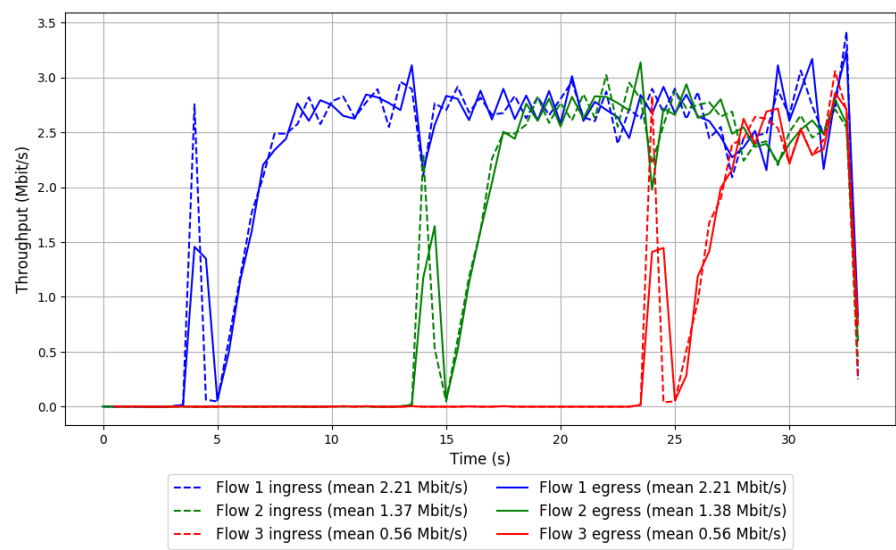
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 61.977 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-22 04:46:42

End at: 2017-11-22 04:47:12

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.741 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 63.656 ms

Loss rate: 1.34%

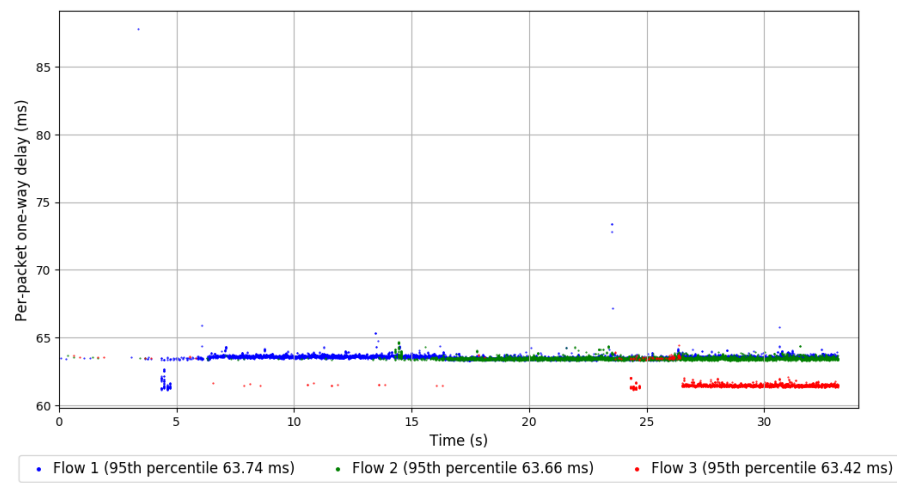
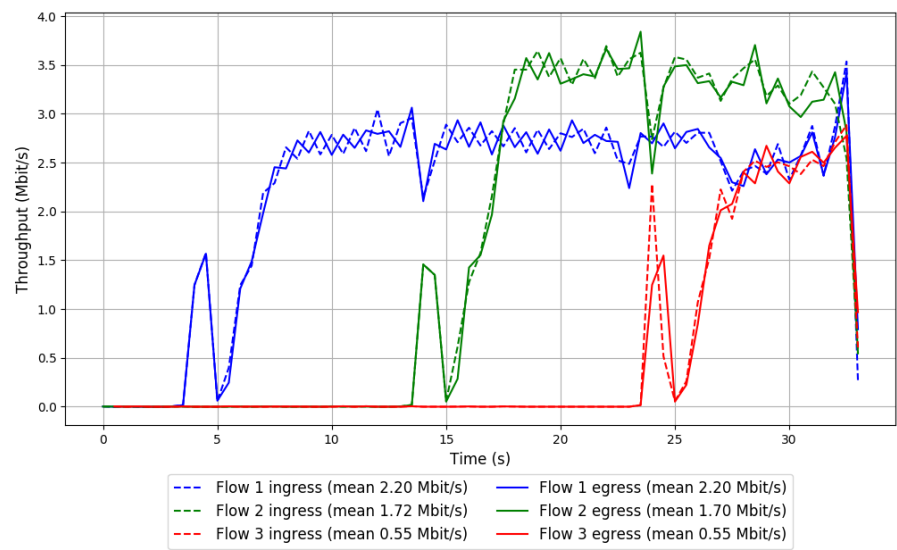
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-22 04:59:04

End at: 2017-11-22 04:59:34

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 63.537 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.523 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.512 ms

Loss rate: 0.00%

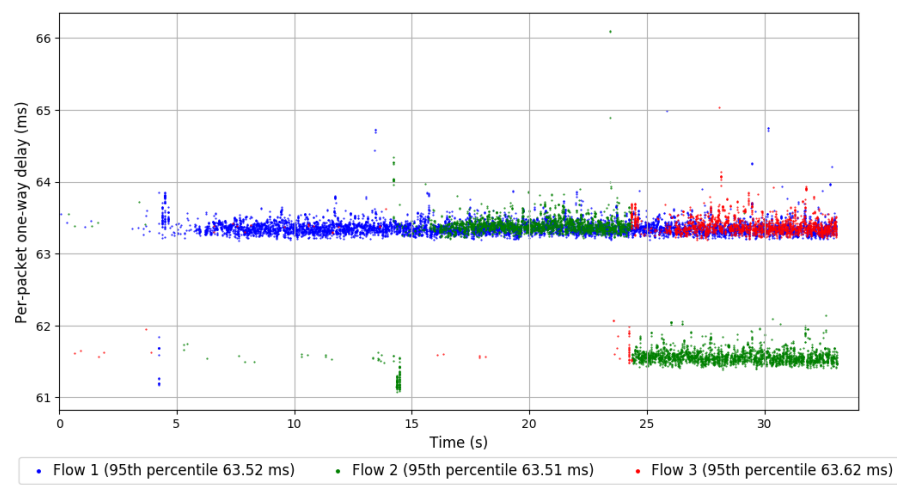
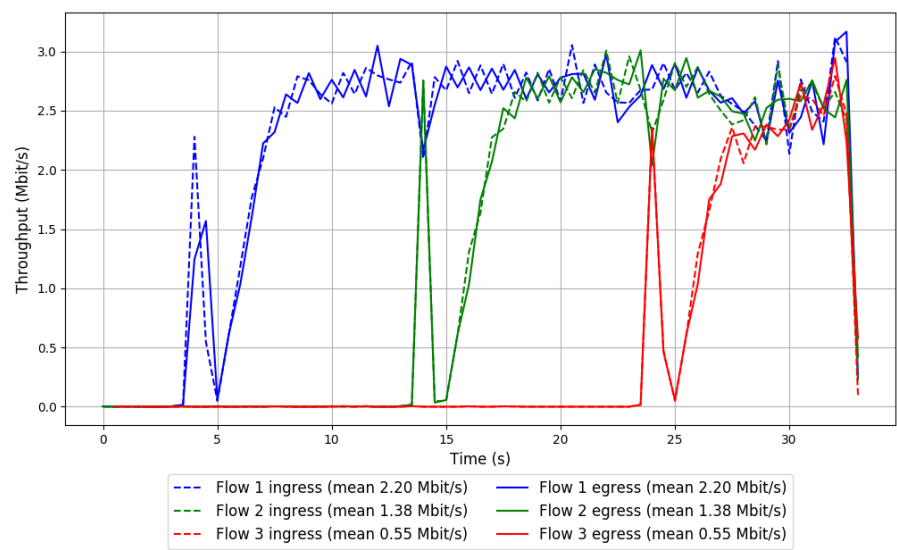
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.624 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-22 05:11:28

End at: 2017-11-22 05:11:58

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 63.437 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.428 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 61.678 ms

Loss rate: 0.00%

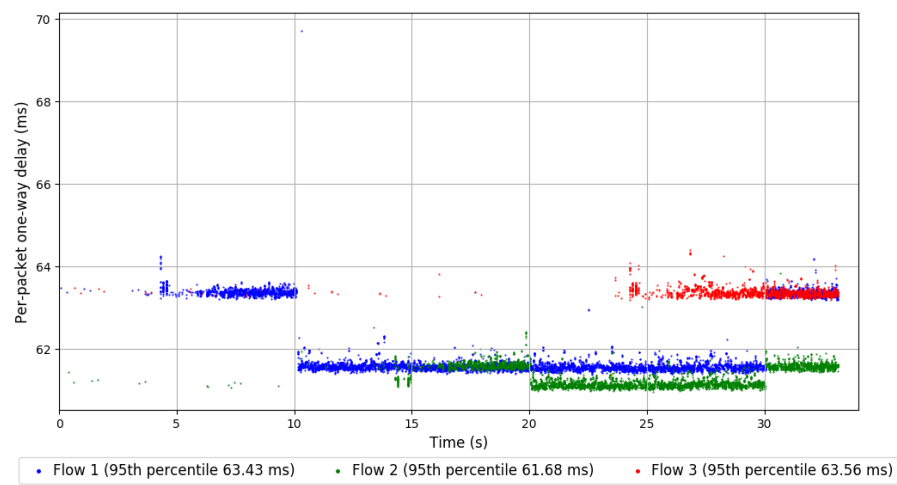
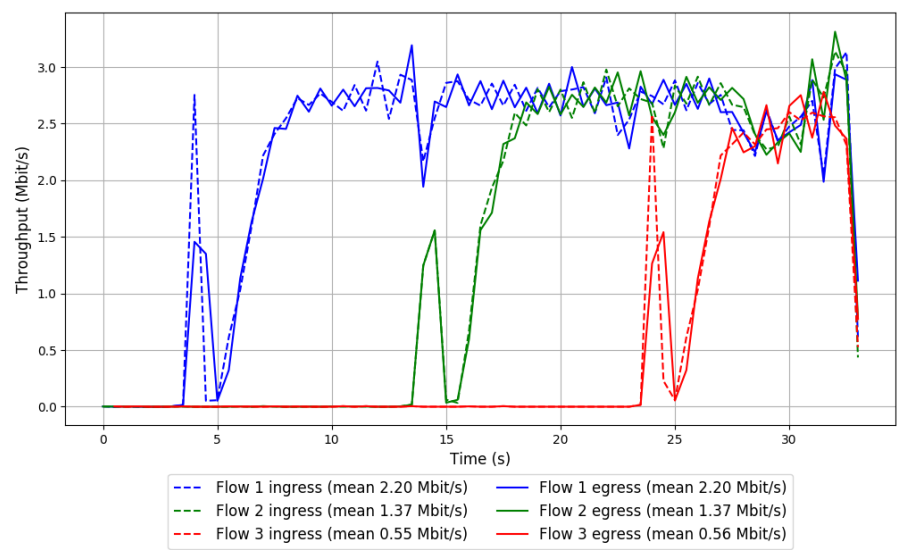
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-22 05:23:45

End at: 2017-11-22 05:24:15

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.498 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 61.705 ms

Loss rate: 0.00%

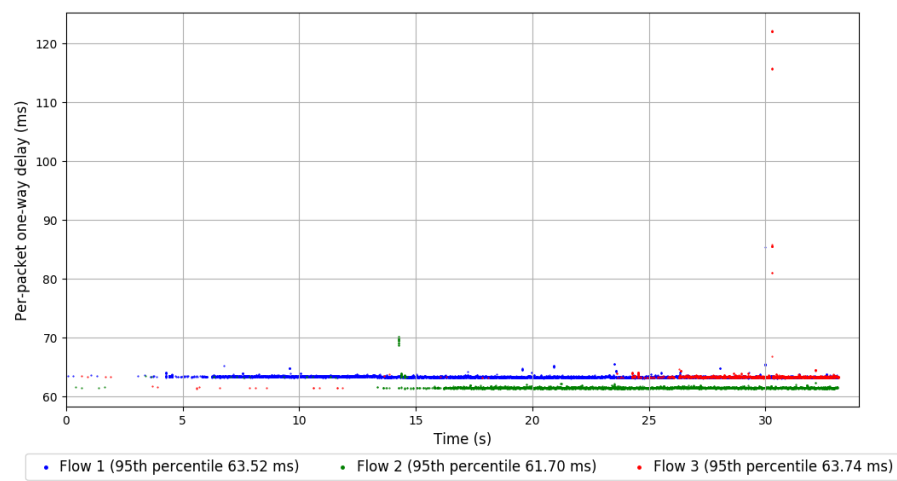
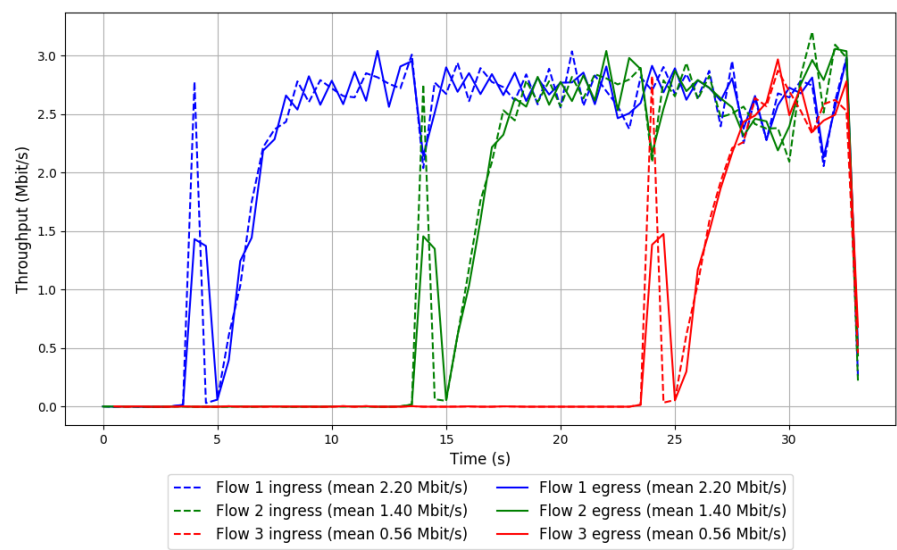
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.740 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-22 05:35:58

End at: 2017-11-22 05:36:28

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.788 ms

Loss rate: 0.00%

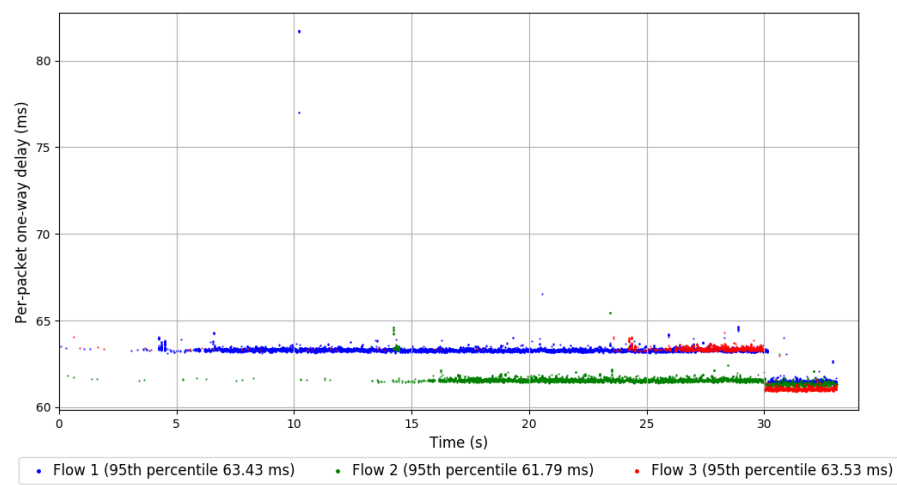
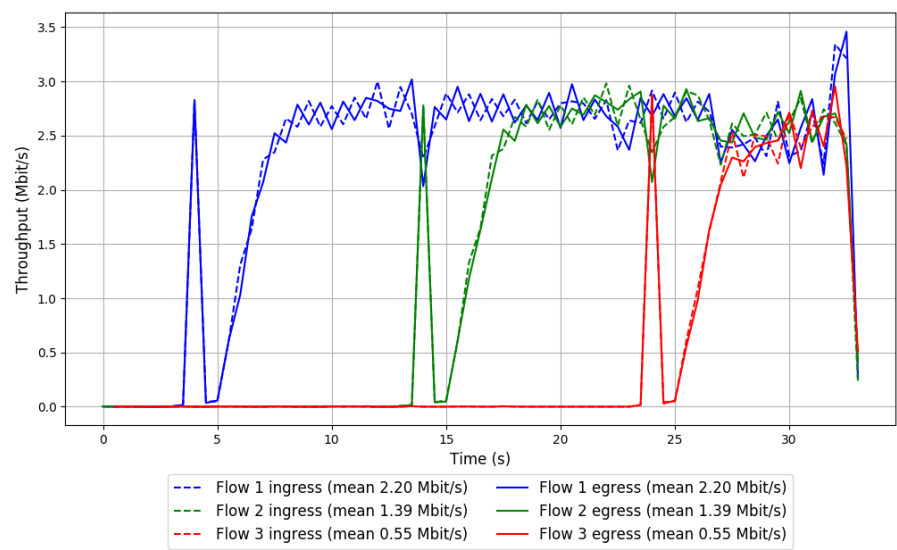
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-22 05:48:11

End at: 2017-11-22 05:48:41

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.553 ms

Loss rate: 0.00%

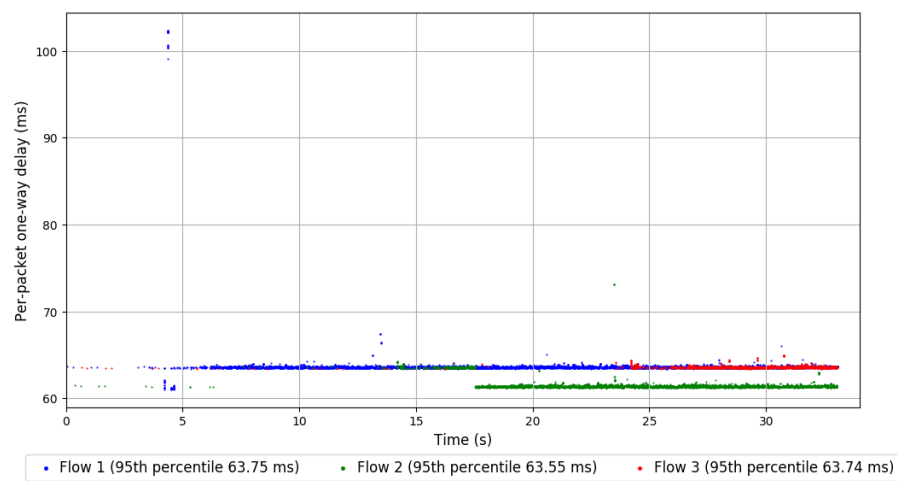
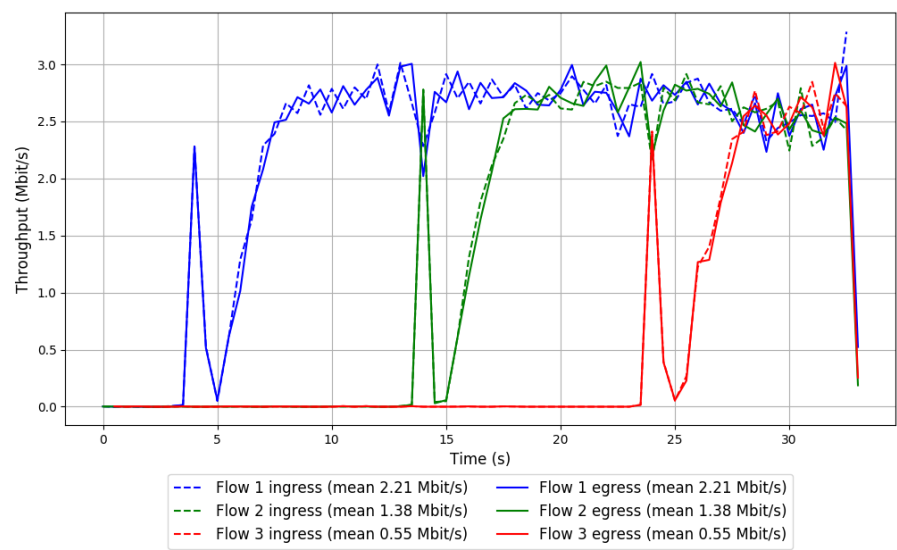
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.07%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-22 06:00:16

End at: 2017-11-22 06:00:46

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.227 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 61.490 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.411 ms

Loss rate: 0.00%

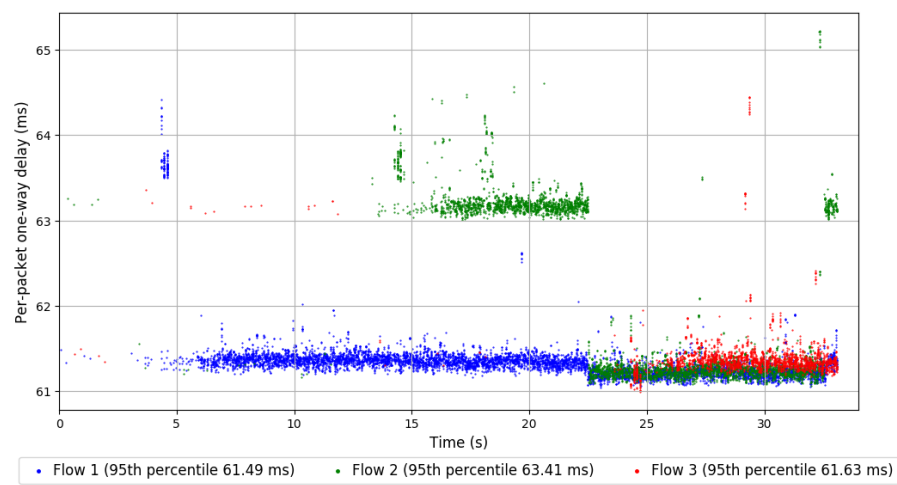
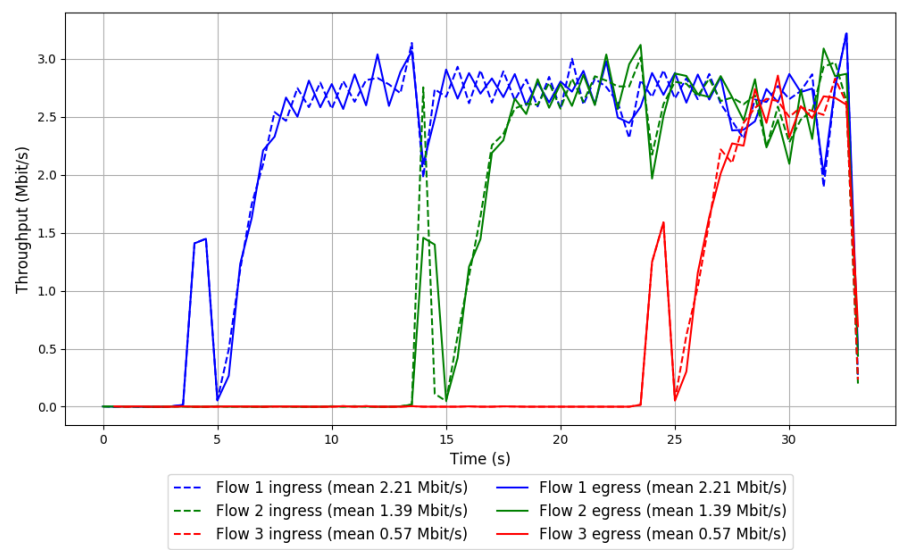
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 61.633 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-22 04:18:43

End at: 2017-11-22 04:19:13

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 64.515 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.450 ms

Loss rate: 0.00%

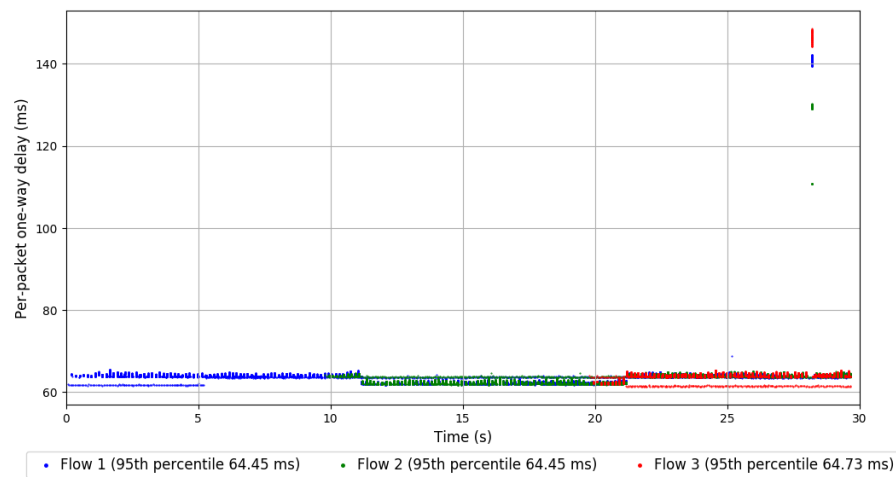
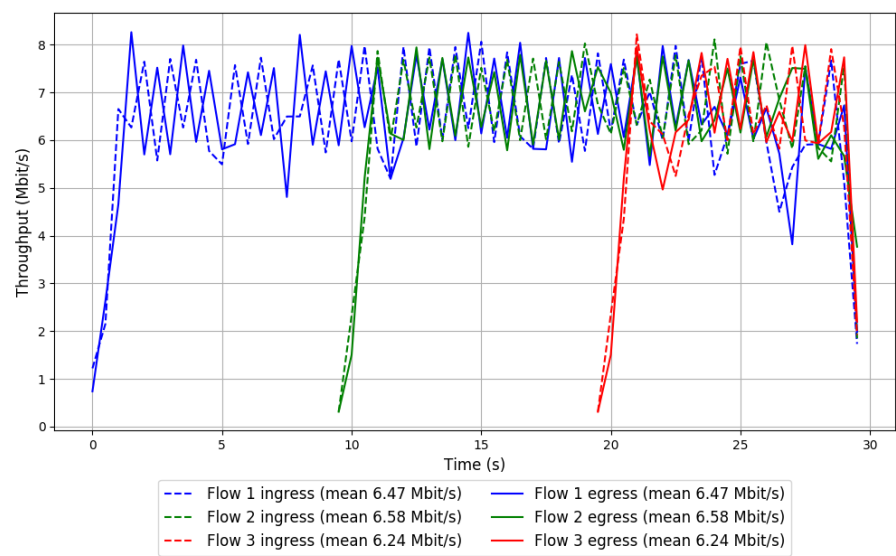
-- Flow 3:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 64.732 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-22 04:31:08

End at: 2017-11-22 04:31:38

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 64.538 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.498 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.549 ms

Loss rate: 0.00%

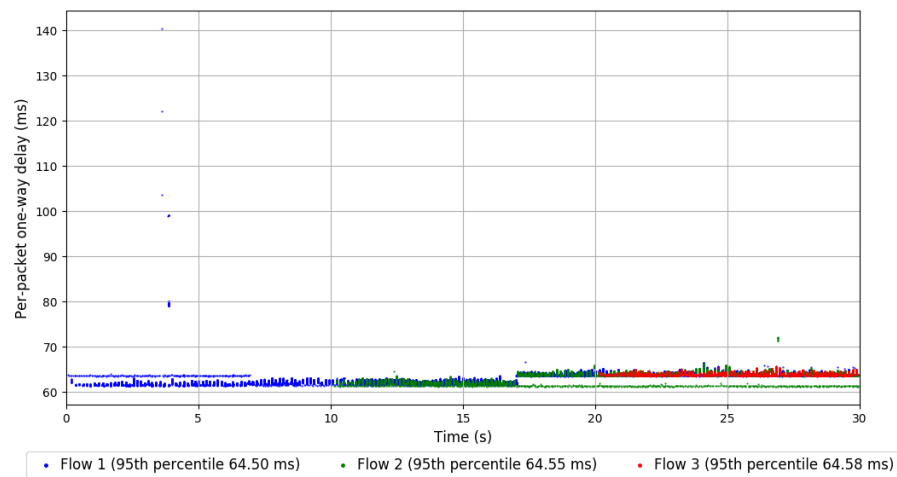
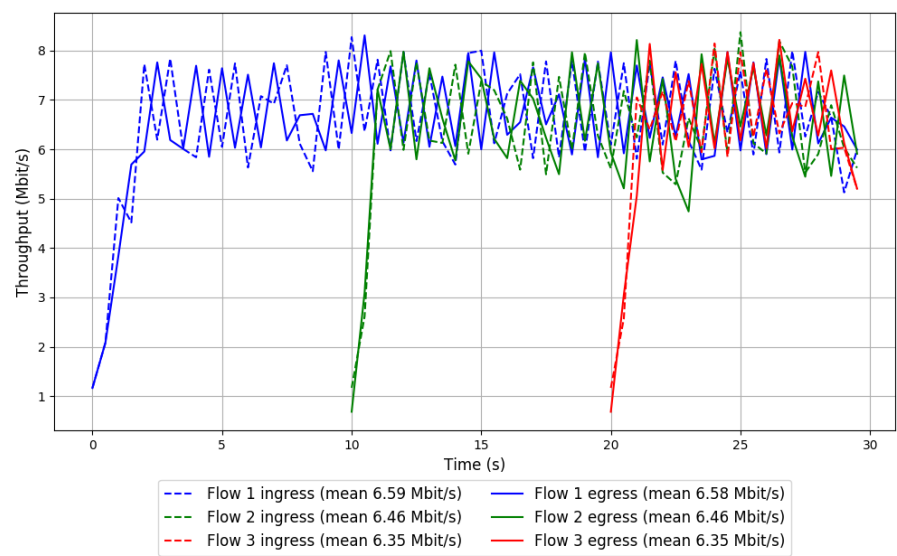
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 64.579 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

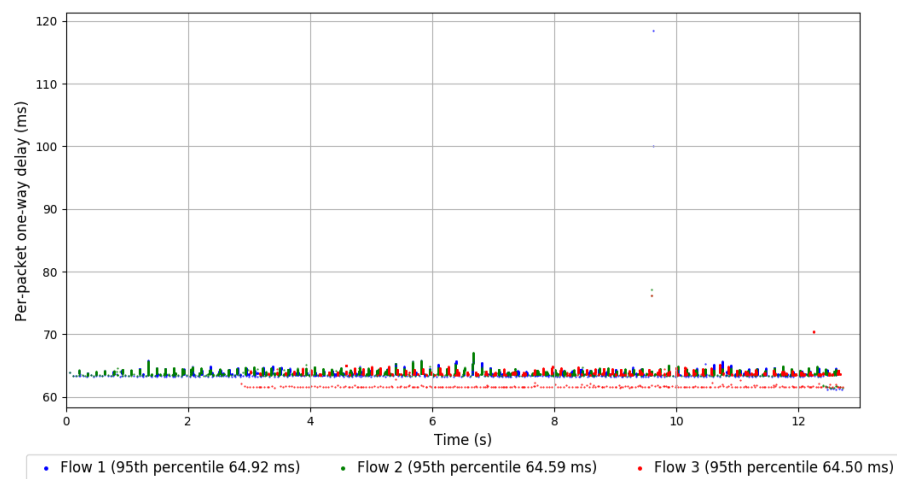
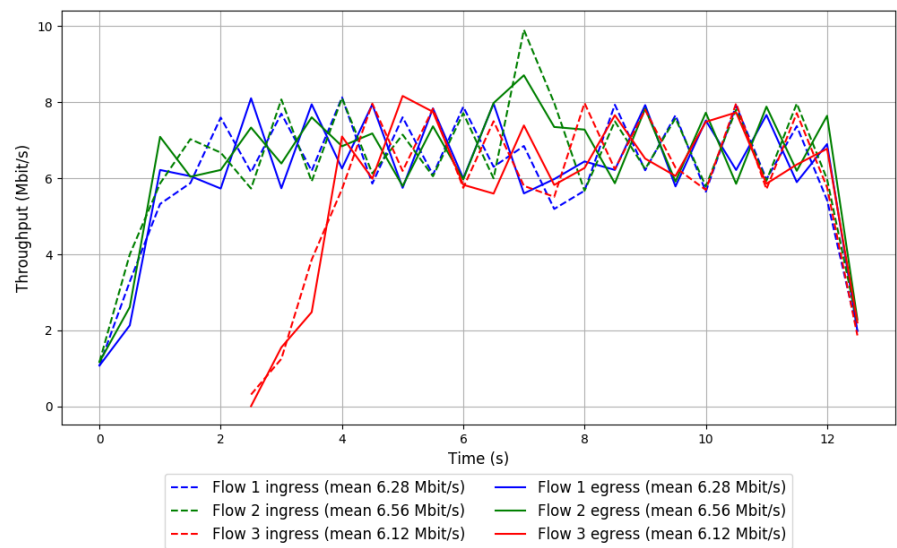


Run 3: Statistics of Sprout

Start at: 2017-11-22 04:43:15

End at: 2017-11-22 04:43:45

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-22 04:55:37

End at: 2017-11-22 04:56:07

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 64.558 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.564 ms

Loss rate: 0.01%

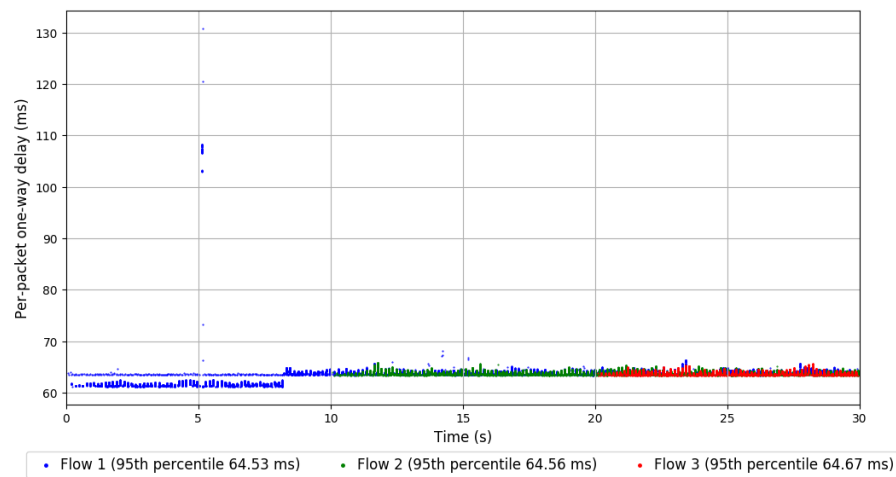
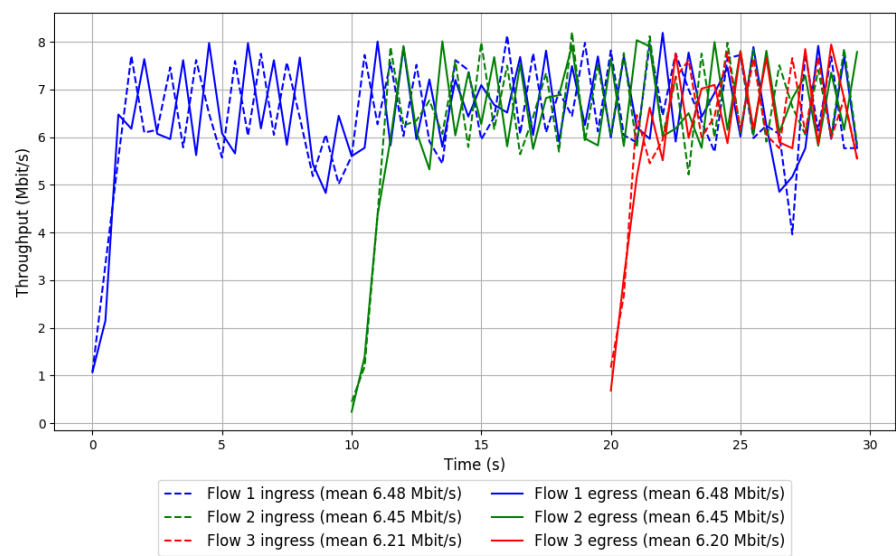
-- Flow 3:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 64.671 ms

Loss rate: 0.10%

Run 4: Report of Sprout — Data Link

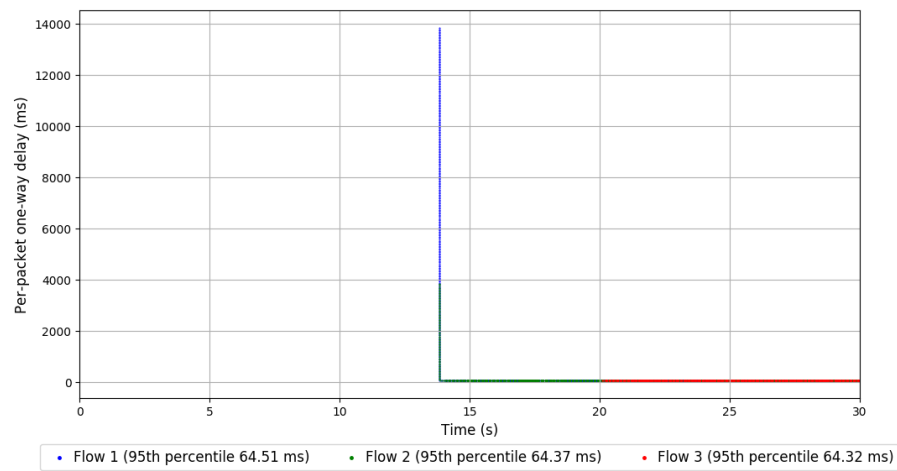
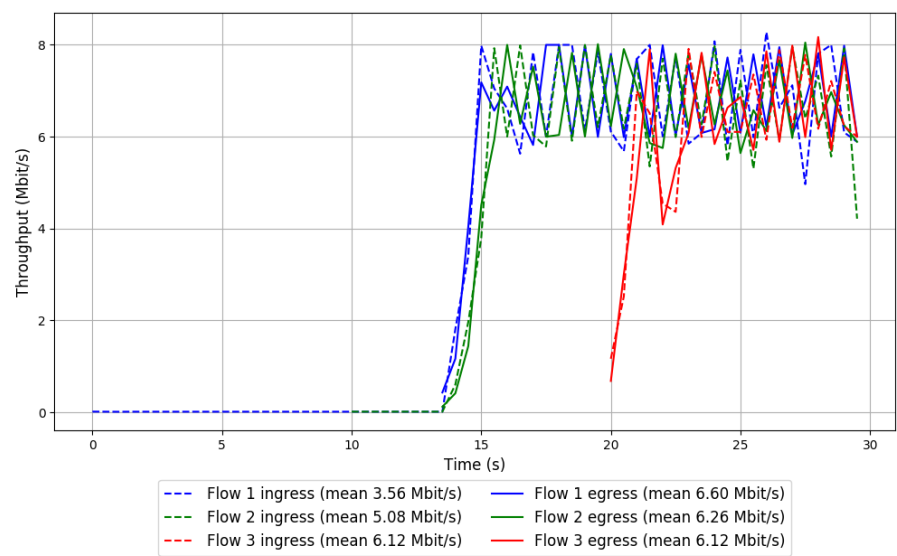


Run 5: Statistics of Sprout

Start at: 2017-11-22 05:08:02

End at: 2017-11-22 05:08:32

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-22 05:20:17

End at: 2017-11-22 05:20:47

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 64.381 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.379 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 64.304 ms

Loss rate: 0.01%

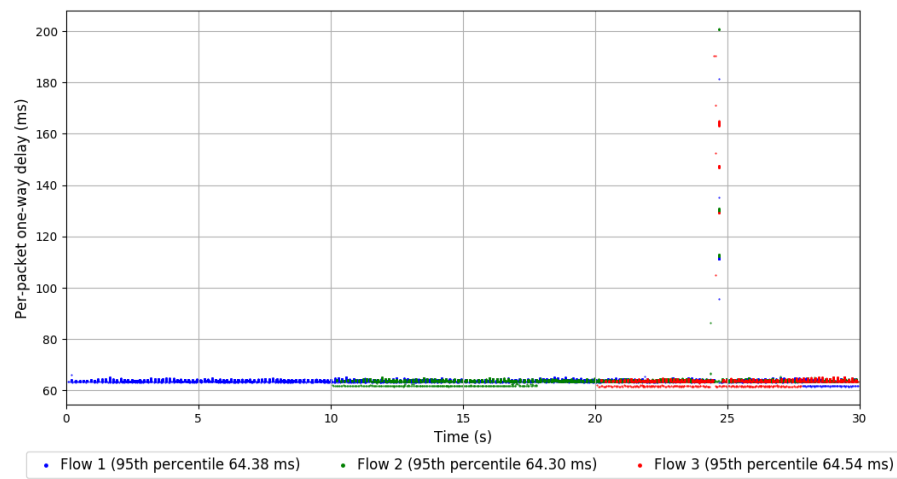
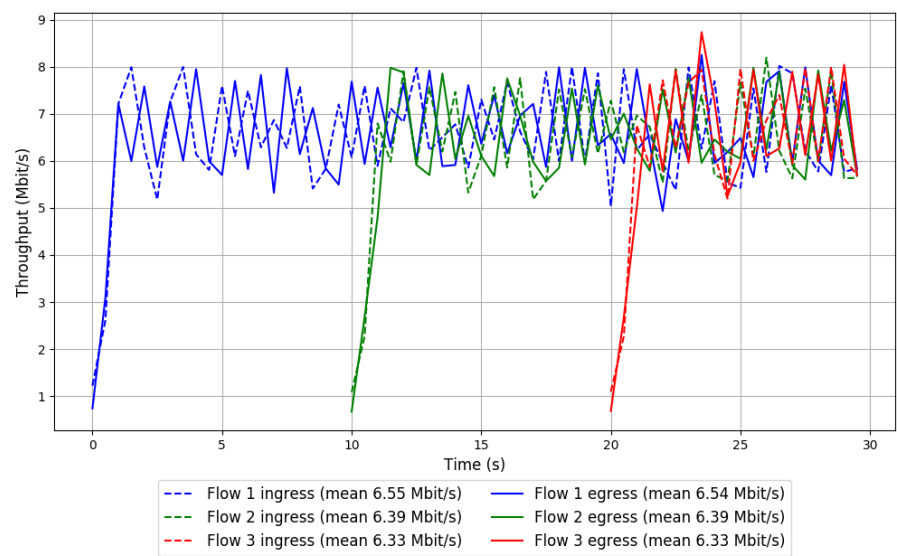
-- Flow 3:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 64.537 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

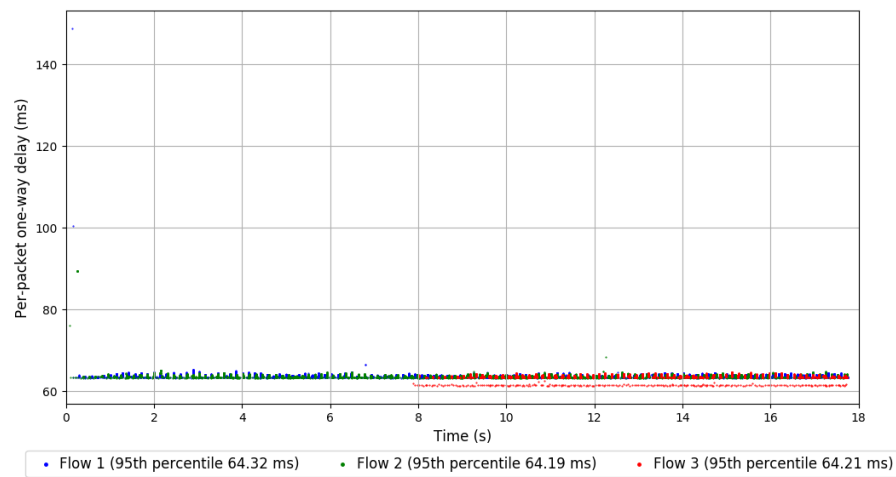
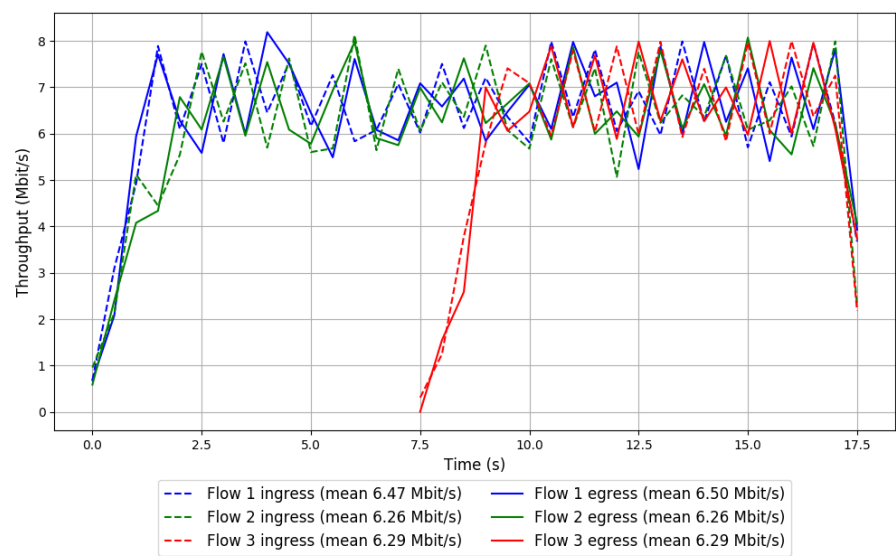


Run 7: Statistics of Sprout

Start at: 2017-11-22 05:32:29

End at: 2017-11-22 05:33:00

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-22 05:44:45

End at: 2017-11-22 05:45:15

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.91 Mbit/s

95th percentile per-packet one-way delay: 63.903 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.123 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 62.172 ms

Loss rate: 0.01%

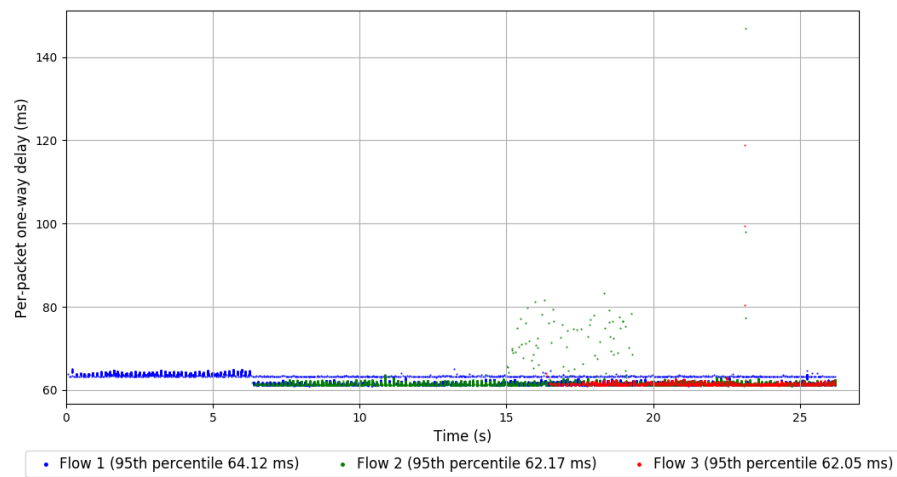
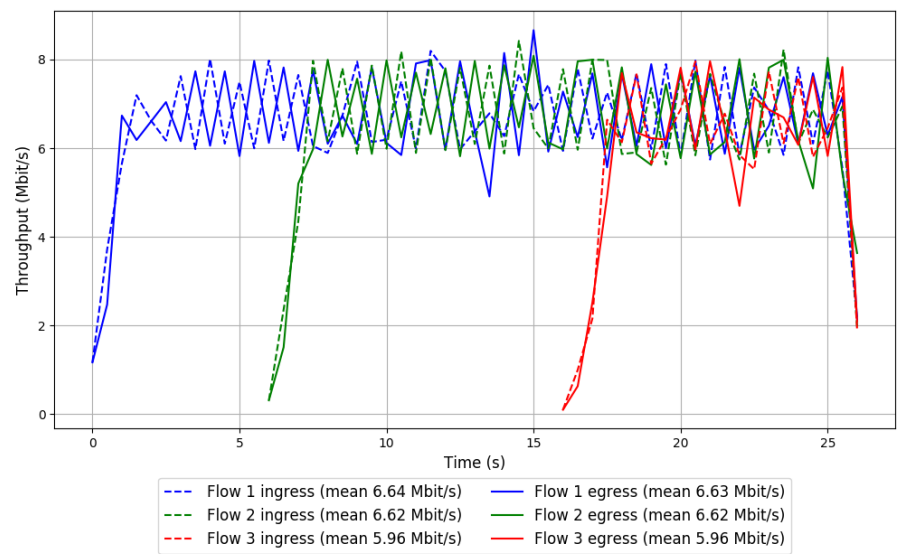
-- Flow 3:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 62.047 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

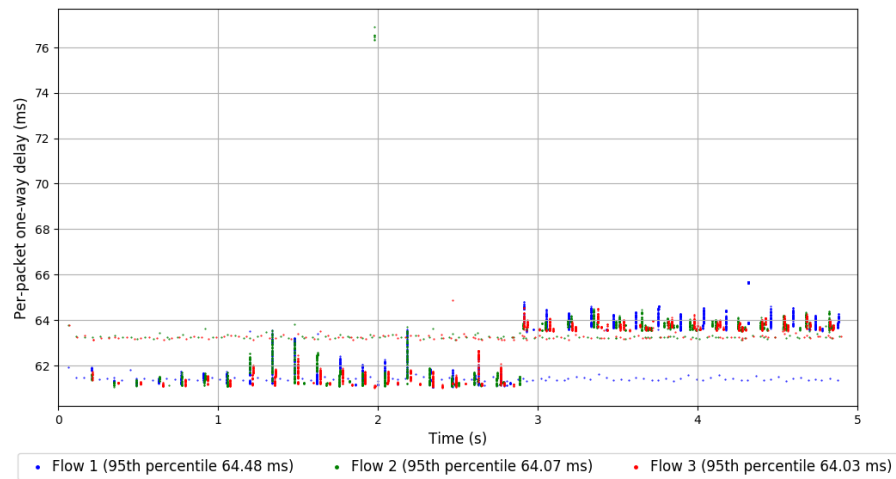
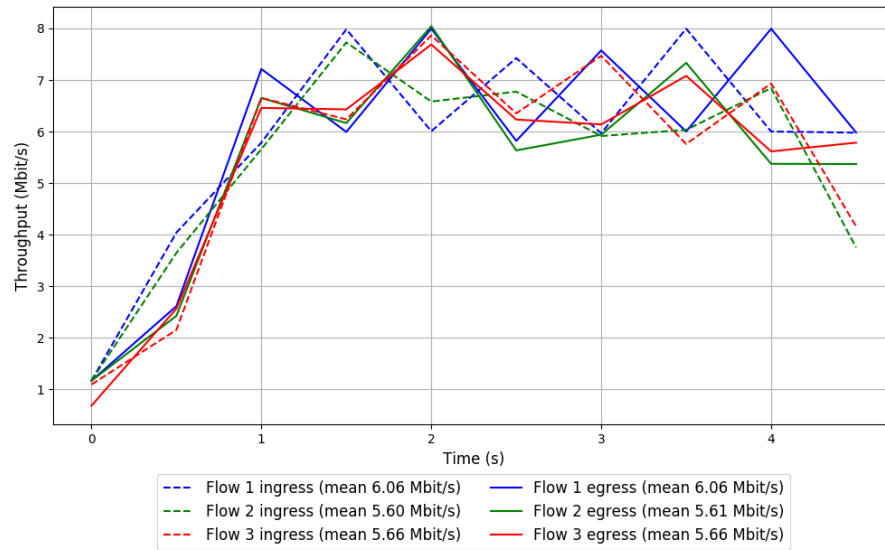


Run 9: Statistics of Sprout

Start at: 2017-11-22 05:56:47

End at: 2017-11-22 05:57:17

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-22 06:09:04

End at: 2017-11-22 06:09:34

Below is generated by plot.py at 2017-11-22 08:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.74 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.121 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 62.230 ms

Loss rate: 0.01%

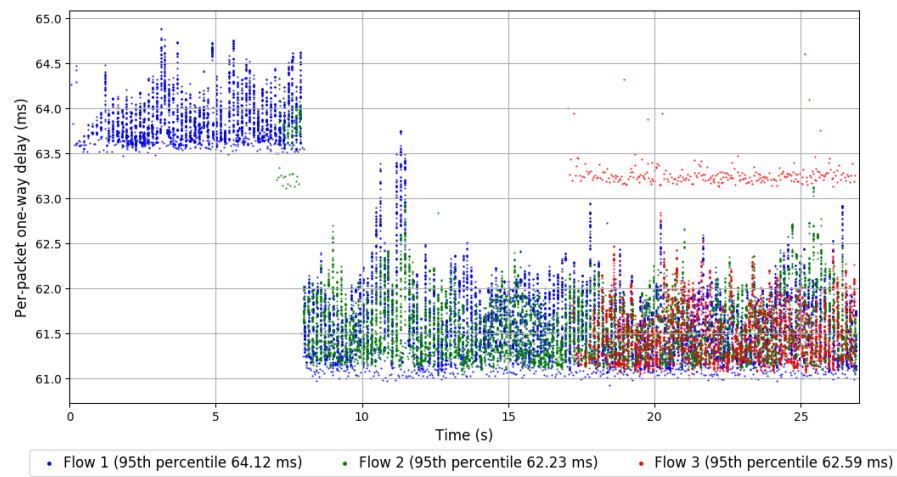
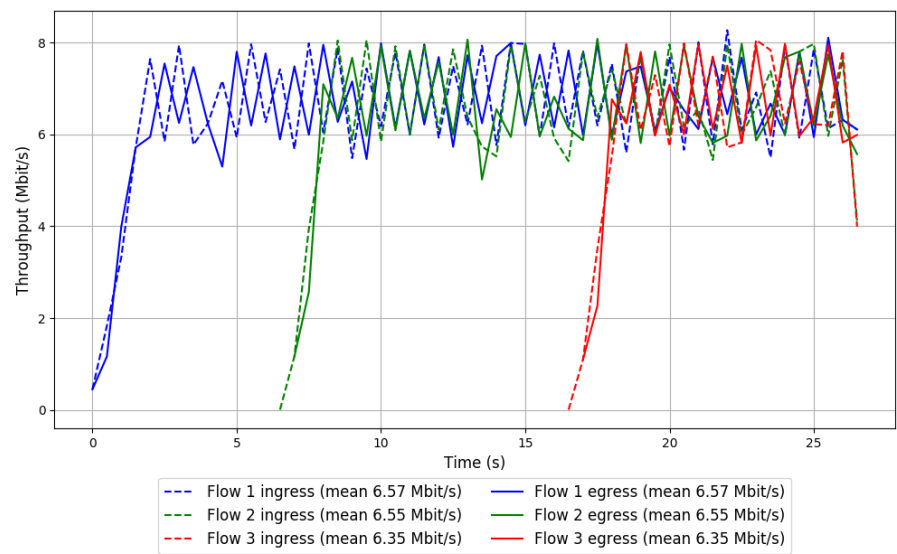
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 62.591 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

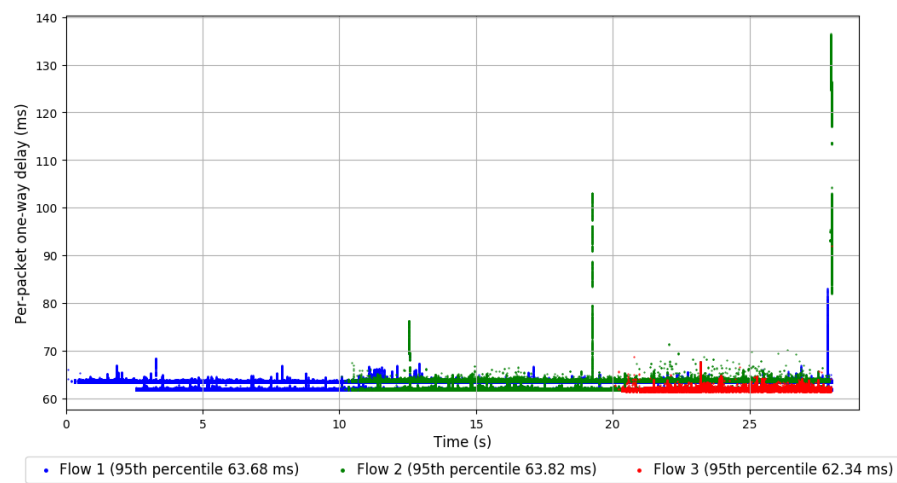
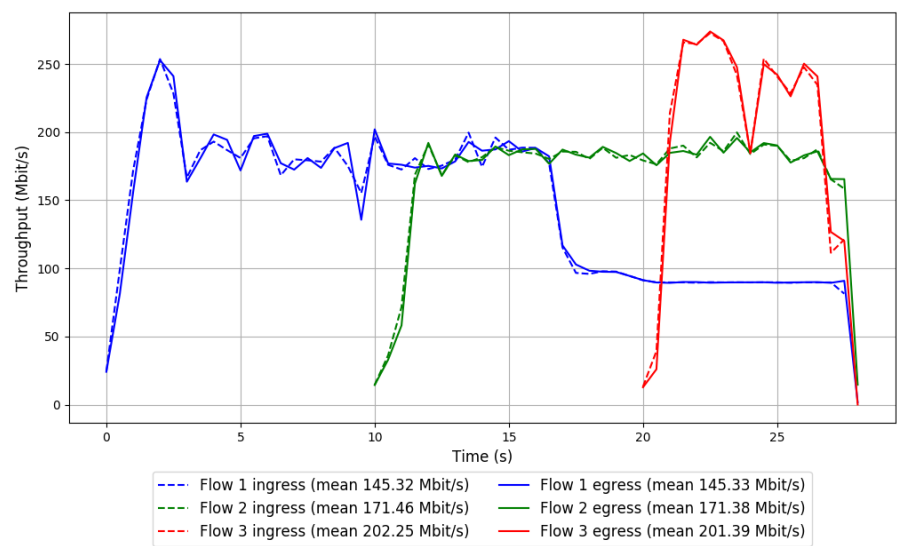


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-22 04:16:50
End at: 2017-11-22 04:17:20

# Below is generated by plot.py at 2017-11-22 08:05:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.39 Mbit/s
95th percentile per-packet one-way delay: 63.746 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 145.33 Mbit/s
95th percentile per-packet one-way delay: 63.683 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 63.821 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 201.39 Mbit/s
95th percentile per-packet one-way delay: 62.340 ms
Loss rate: 0.25%
```


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

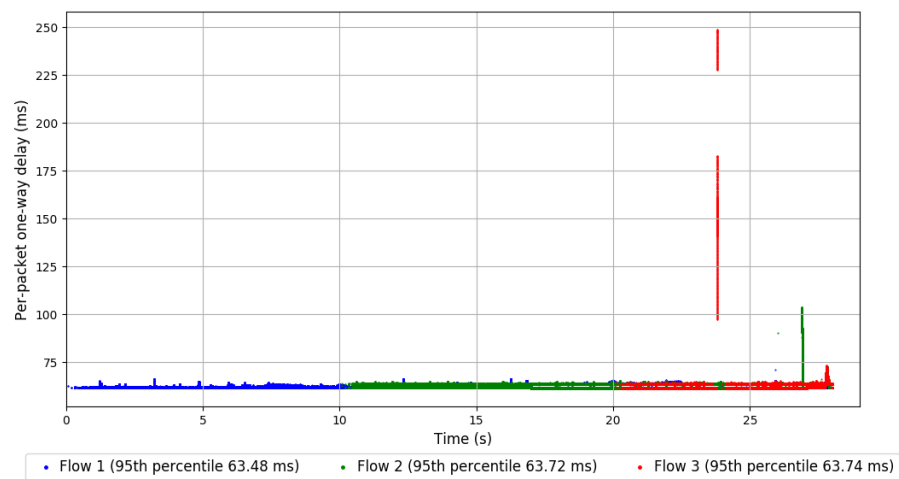
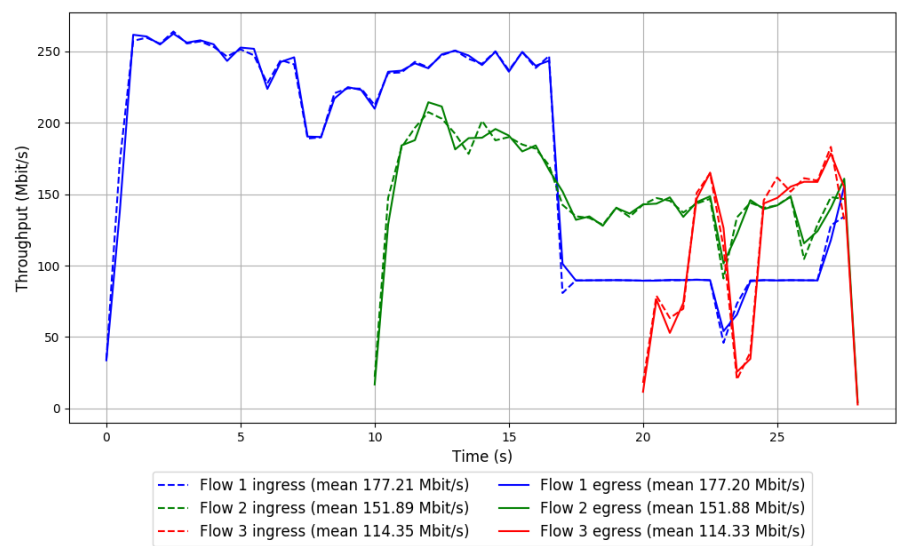


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-22 04:29:16
End at: 2017-11-22 04:29:46

# Below is generated by plot.py at 2017-11-22 08:06:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.40 Mbit/s
95th percentile per-packet one-way delay: 63.661 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 177.20 Mbit/s
95th percentile per-packet one-way delay: 63.475 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 151.88 Mbit/s
95th percentile per-packet one-way delay: 63.721 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 114.33 Mbit/s
95th percentile per-packet one-way delay: 63.737 ms
Loss rate: 0.00%
```

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

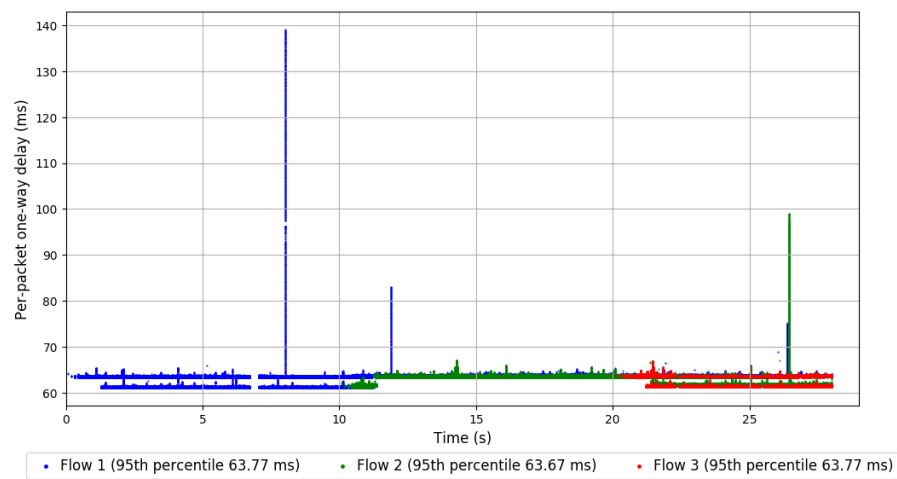
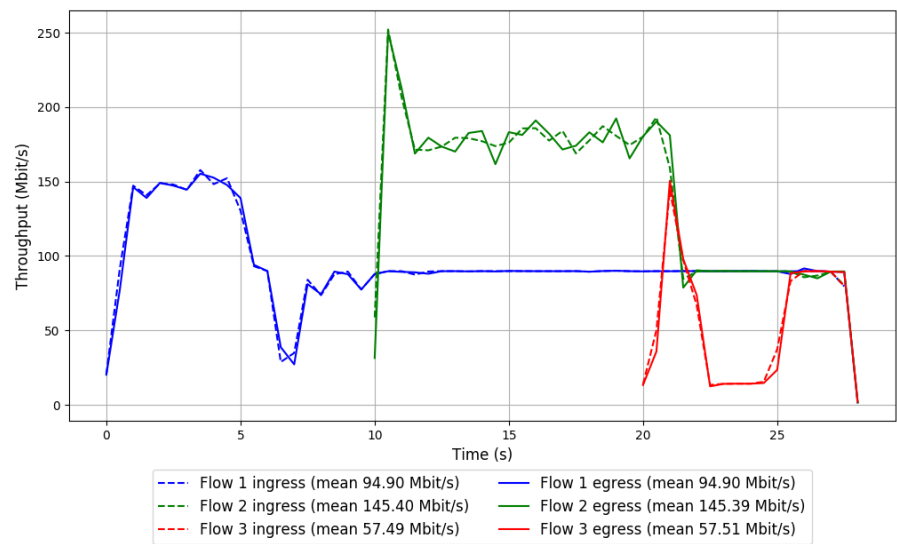


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-22 04:41:32
End at: 2017-11-22 04:42:02

# Below is generated by plot.py at 2017-11-22 08:06:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.55 Mbit/s
95th percentile per-packet one-way delay: 63.733 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 145.39 Mbit/s
95th percentile per-packet one-way delay: 63.668 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 63.767 ms
Loss rate: 0.01%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-22 04:53:41

End at: 2017-11-22 04:54:11

Below is generated by plot.py at 2017-11-22 08:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.98 Mbit/s

95th percentile per-packet one-way delay: 70.485 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 184.74 Mbit/s

95th percentile per-packet one-way delay: 70.380 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 168.09 Mbit/s

95th percentile per-packet one-way delay: 65.249 ms

Loss rate: 0.14%

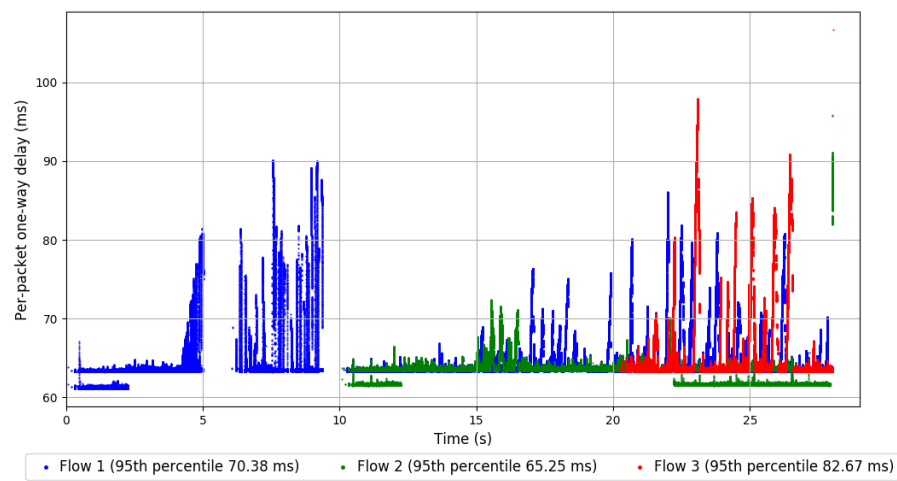
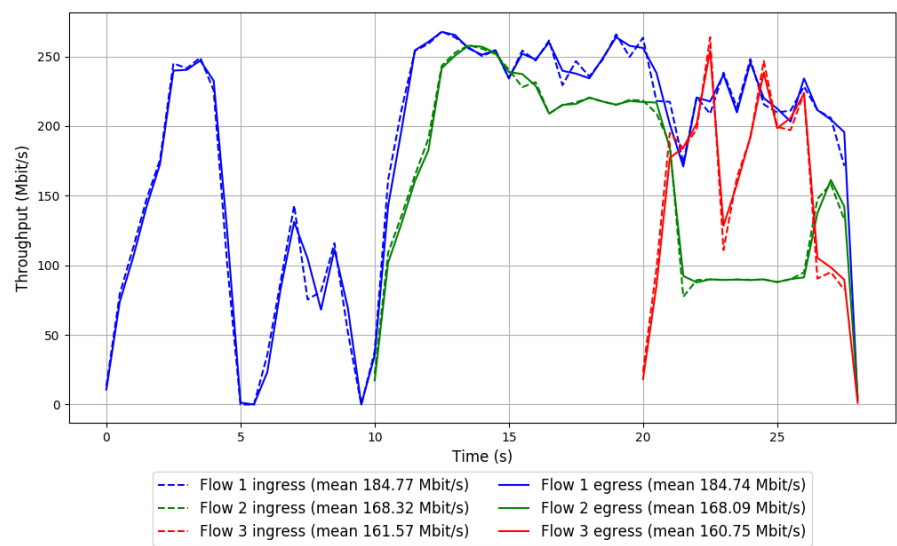
-- Flow 3:

Average throughput: 160.75 Mbit/s

95th percentile per-packet one-way delay: 82.671 ms

Loss rate: 0.05%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-22 05:06:08

End at: 2017-11-22 05:06:38

Below is generated by plot.py at 2017-11-22 08:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.99 Mbit/s

95th percentile per-packet one-way delay: 63.778 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 143.61 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 201.91 Mbit/s

95th percentile per-packet one-way delay: 63.724 ms

Loss rate: 0.00%

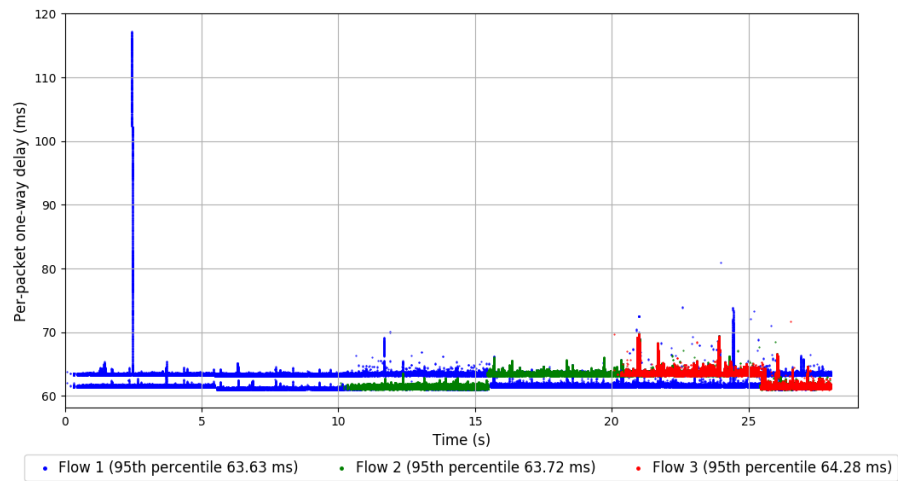
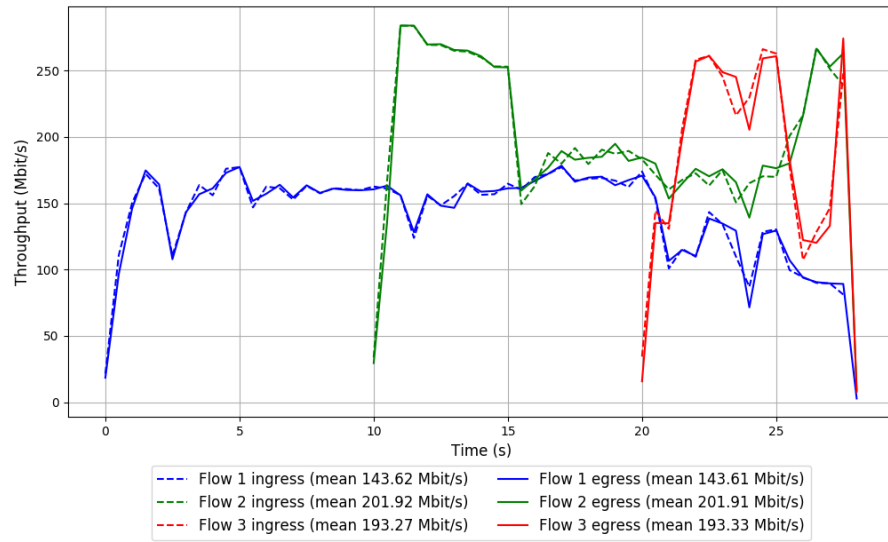
-- Flow 3:

Average throughput: 193.33 Mbit/s

95th percentile per-packet one-way delay: 64.285 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-22 05:18:29

End at: 2017-11-22 05:18:59

Below is generated by plot.py at 2017-11-22 08:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.89 Mbit/s

95th percentile per-packet one-way delay: 63.642 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.54 Mbit/s

95th percentile per-packet one-way delay: 63.590 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.53 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.01%

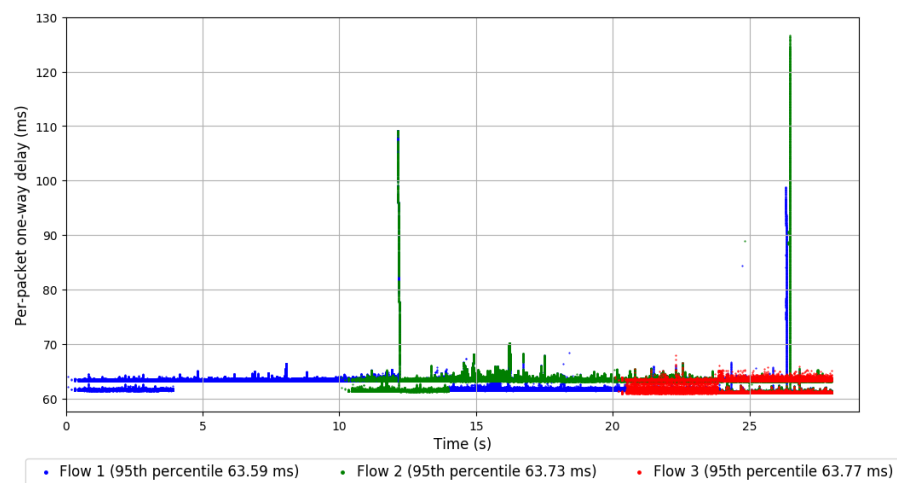
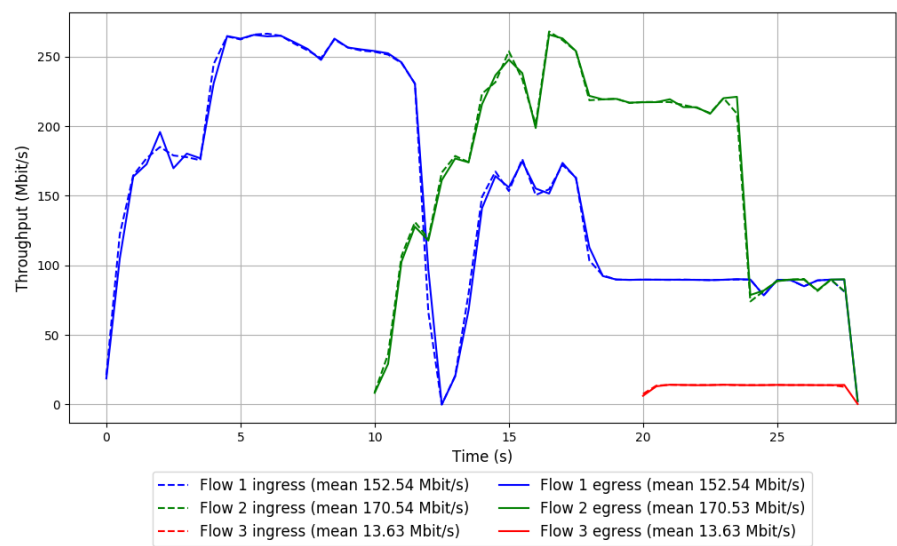
-- Flow 3:

Average throughput: 13.63 Mbit/s

95th percentile per-packet one-way delay: 63.771 ms

Loss rate: 0.01%

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

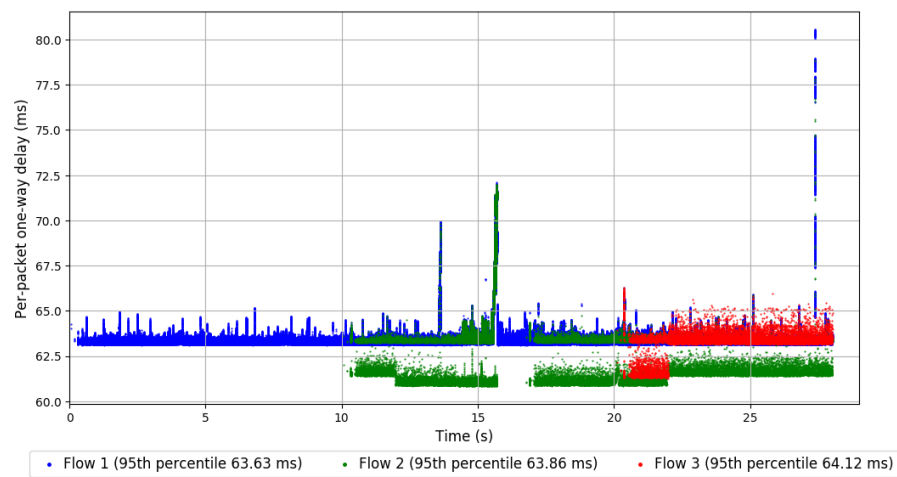
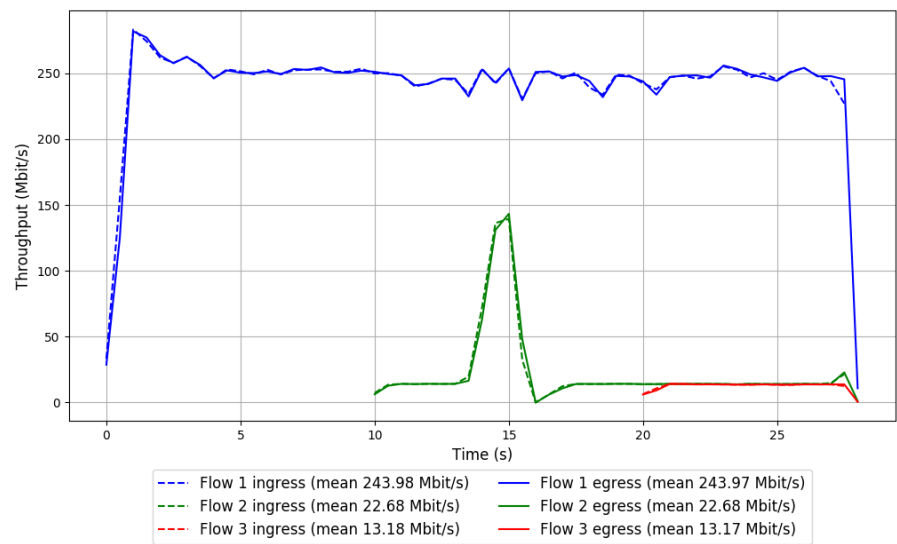


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-22 05:30:41
End at: 2017-11-22 05:31:11

# Below is generated by plot.py at 2017-11-22 08:10:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.26 Mbit/s
95th percentile per-packet one-way delay: 63.650 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 243.97 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 22.68 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 64.118 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-22 05:42:58

End at: 2017-11-22 05:43:28

Below is generated by plot.py at 2017-11-22 08:10:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.24 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 186.87 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.01%

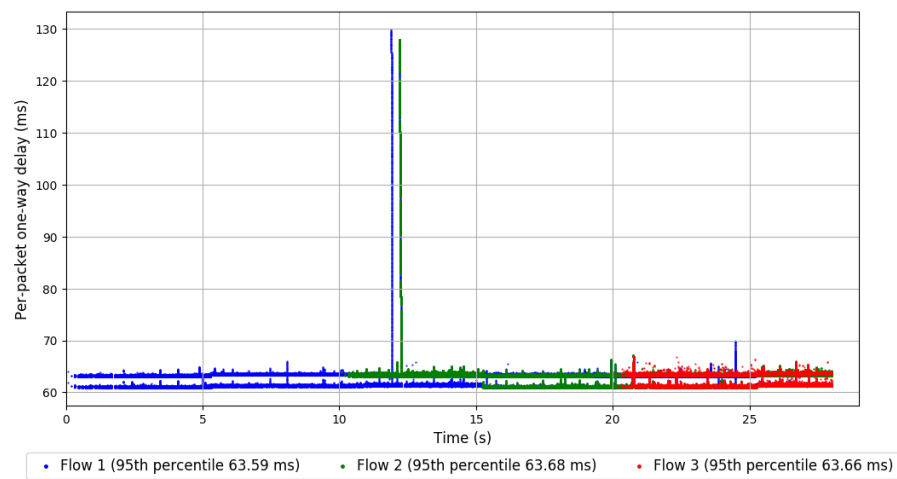
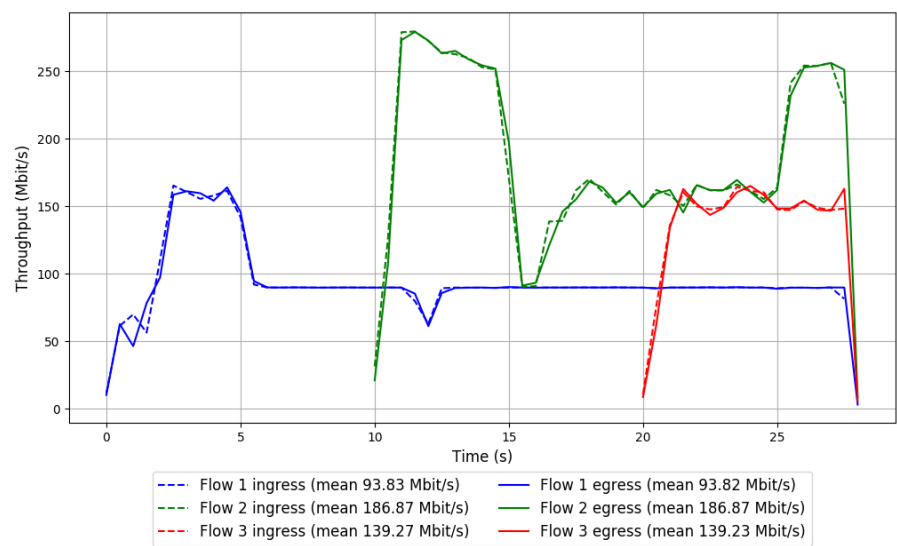
-- Flow 3:

Average throughput: 139.23 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-22 05:55:12

End at: 2017-11-22 05:55:42

Below is generated by plot.py at 2017-11-22 08:10:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.18 Mbit/s

95th percentile per-packet one-way delay: 63.689 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 171.77 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.11%

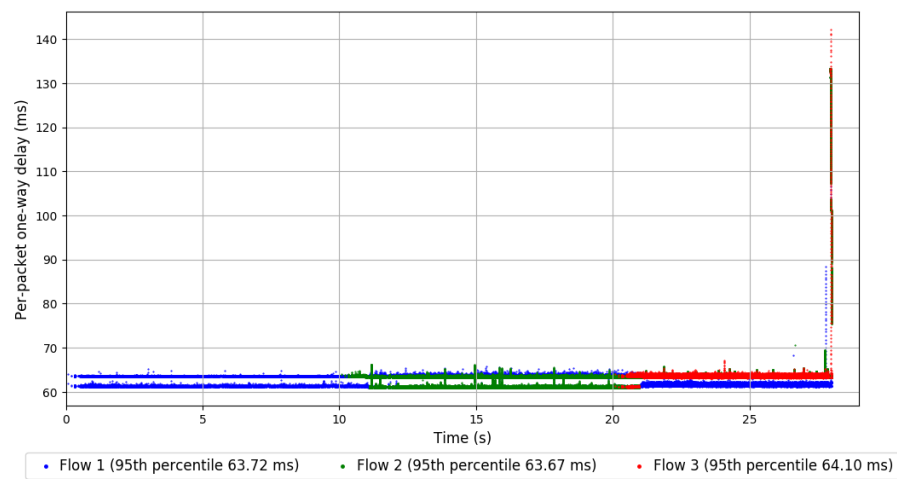
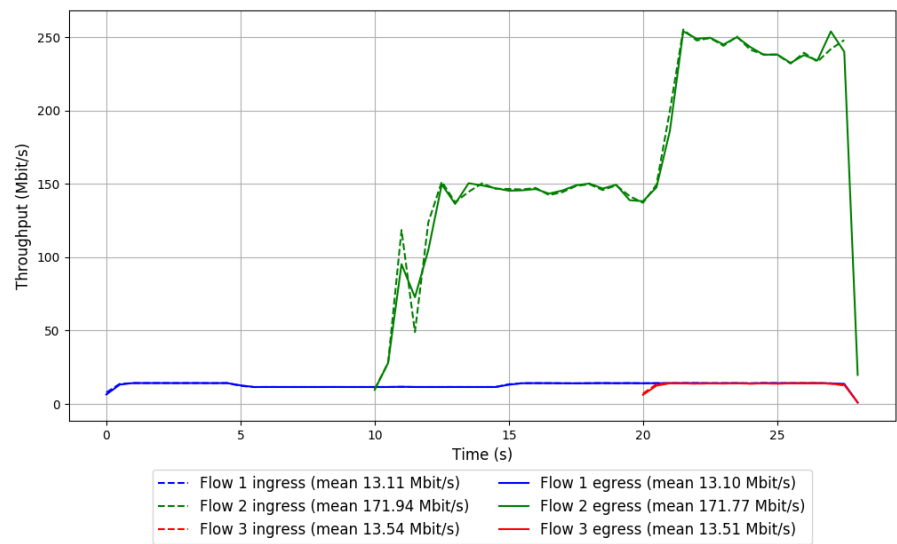
-- Flow 3:

Average throughput: 13.51 Mbit/s

95th percentile per-packet one-way delay: 64.099 ms

Loss rate: 0.16%

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

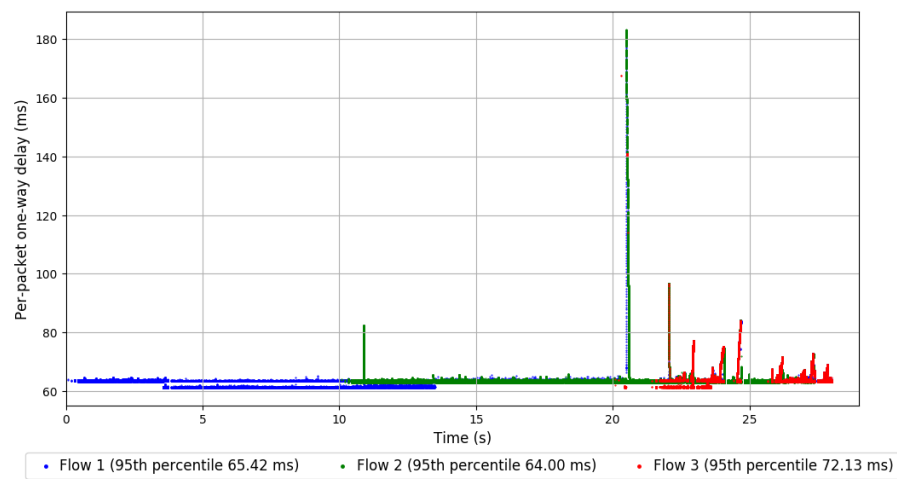
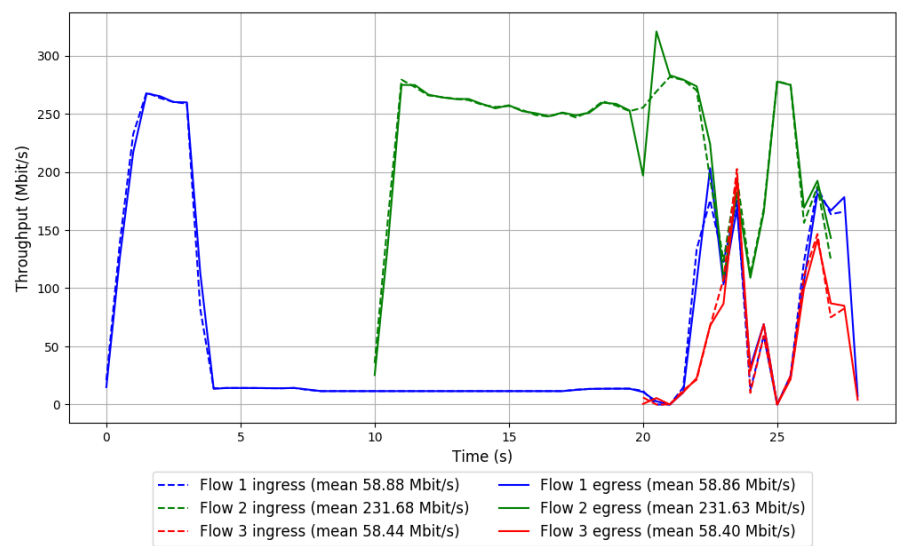


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-22 06:07:20
End at: 2017-11-22 06:07:50

# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.74 Mbit/s
95th percentile per-packet one-way delay: 65.003 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 65.425 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 231.63 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.40 Mbit/s
95th percentile per-packet one-way delay: 72.128 ms
Loss rate: 0.06%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-22 04:11:21

End at: 2017-11-22 04:11:51

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 64.578 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 64.149 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 0.00%

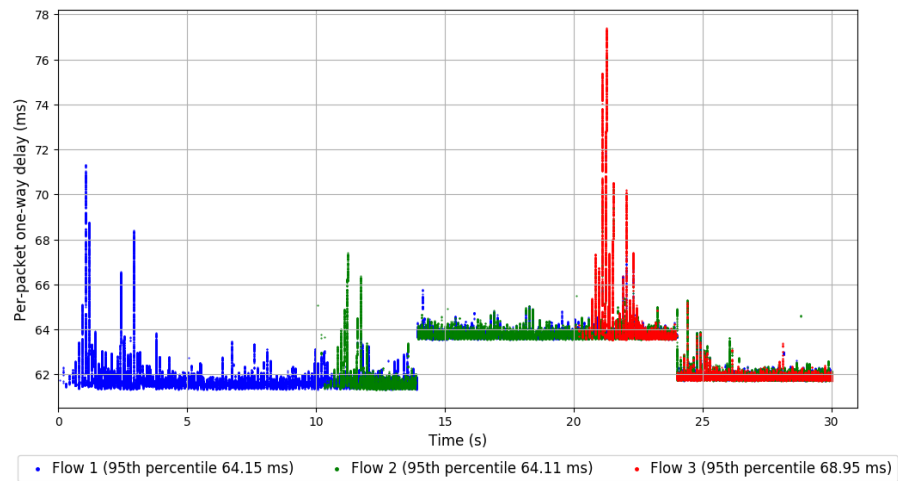
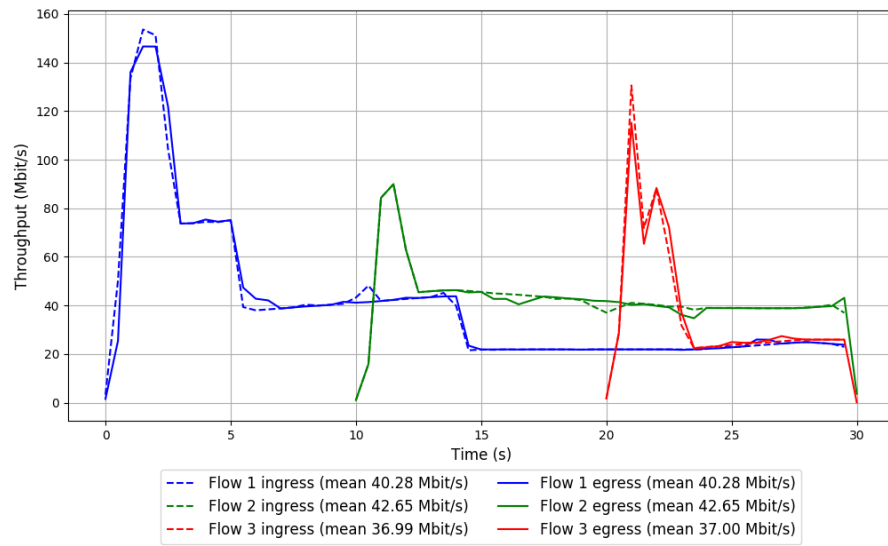
-- Flow 3:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 68.948 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-22 04:23:47

End at: 2017-11-22 04:24:17

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 64.099 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 63.963 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 64.186 ms

Loss rate: 0.01%

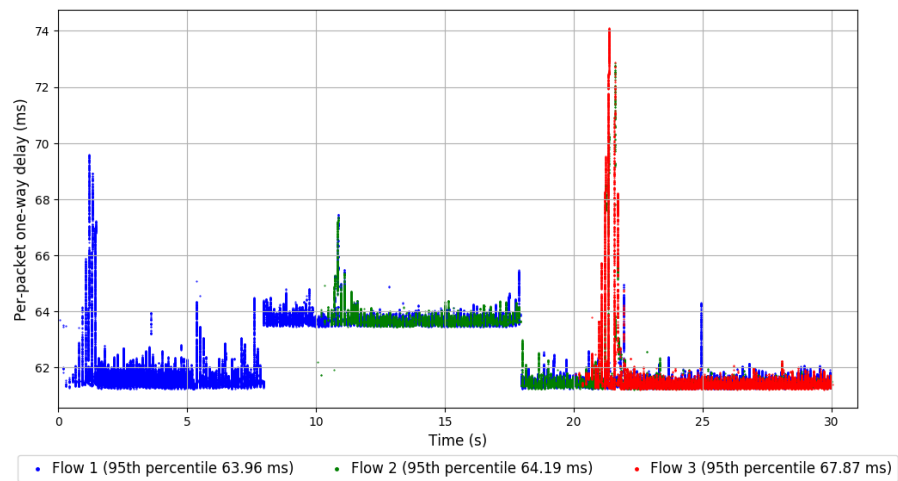
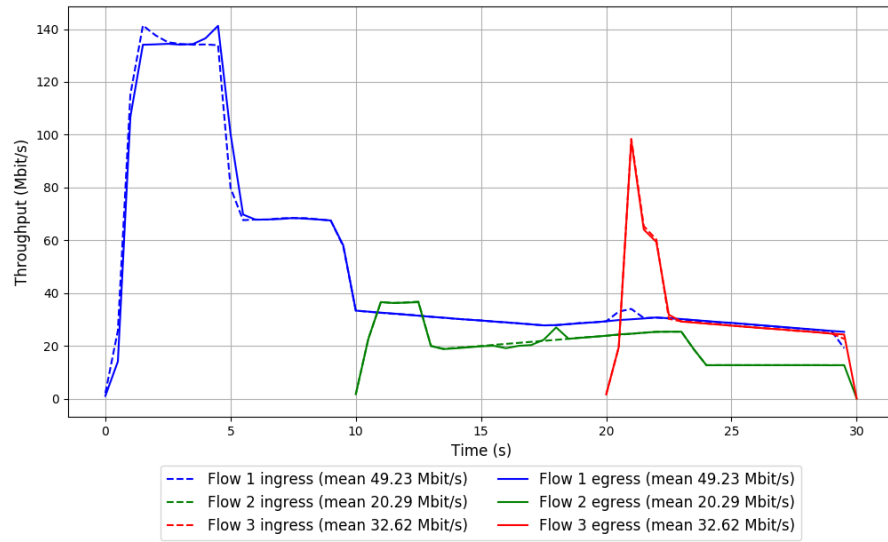
-- Flow 3:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 67.870 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-22 04:36:10

End at: 2017-11-22 04:36:40

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.80 Mbit/s

95th percentile per-packet one-way delay: 64.090 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 64.872 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 42.63 Mbit/s

95th percentile per-packet one-way delay: 62.625 ms

Loss rate: 0.00%

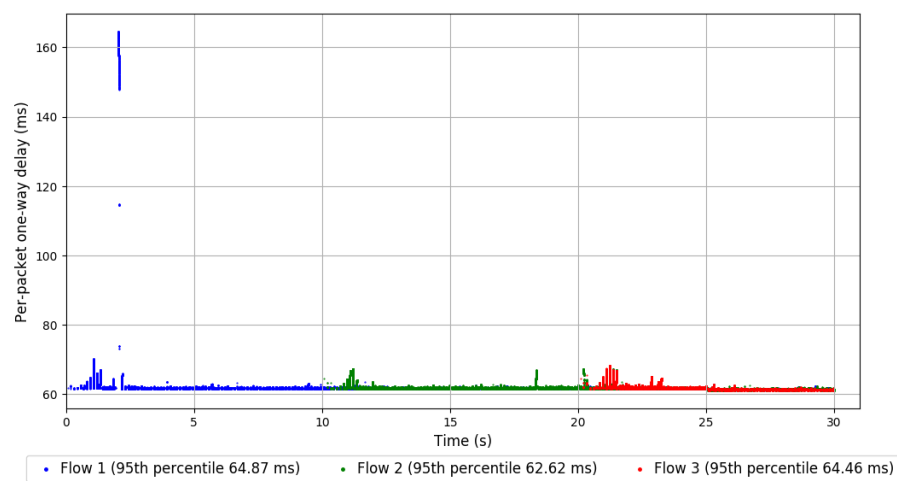
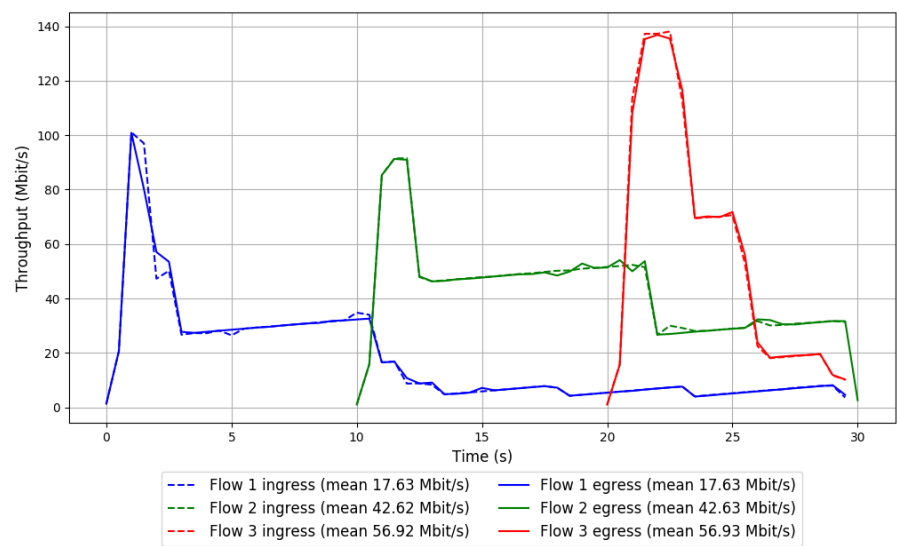
-- Flow 3:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 64.460 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-22 04:48:16

End at: 2017-11-22 04:48:46

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.48 Mbit/s

95th percentile per-packet one-way delay: 63.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 62.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 65.595 ms

Loss rate: 0.00%

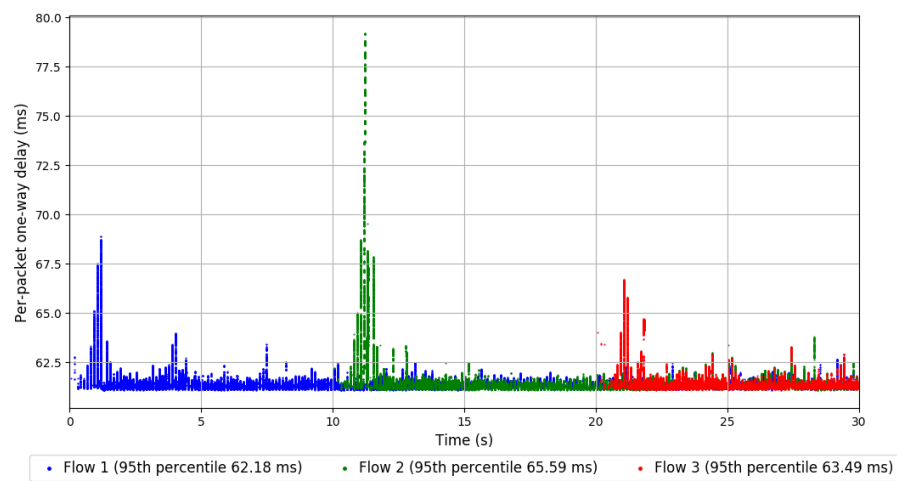
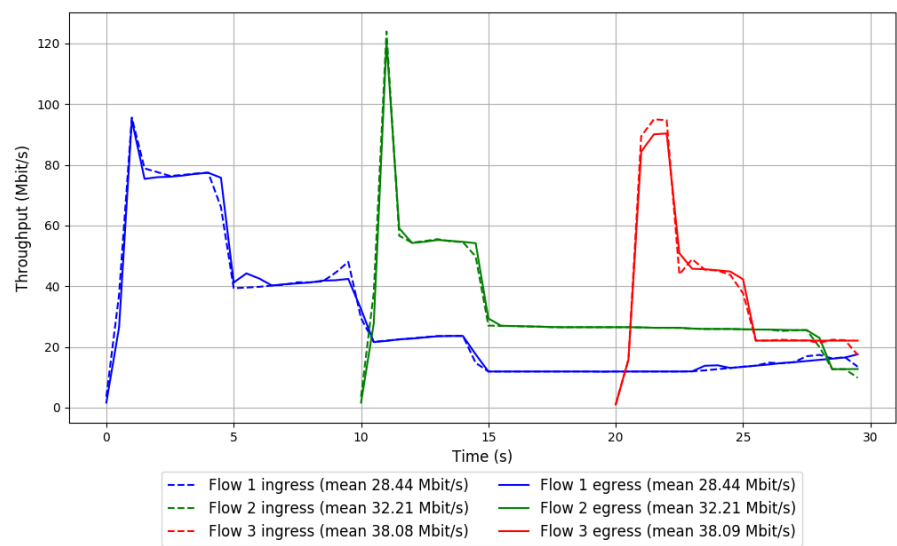
-- Flow 3:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-22 05:00:39

End at: 2017-11-22 05:01:09

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 64.323 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.24 Mbit/s

95th percentile per-packet one-way delay: 63.821 ms

Loss rate: 0.01%

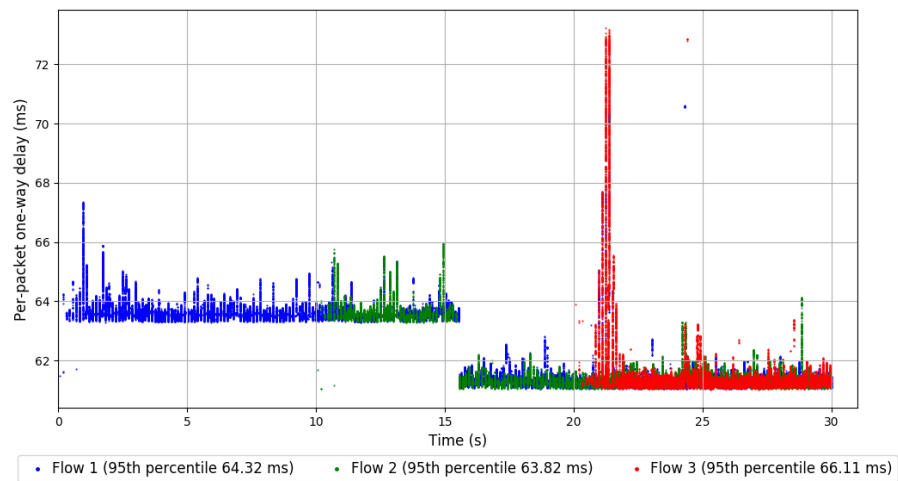
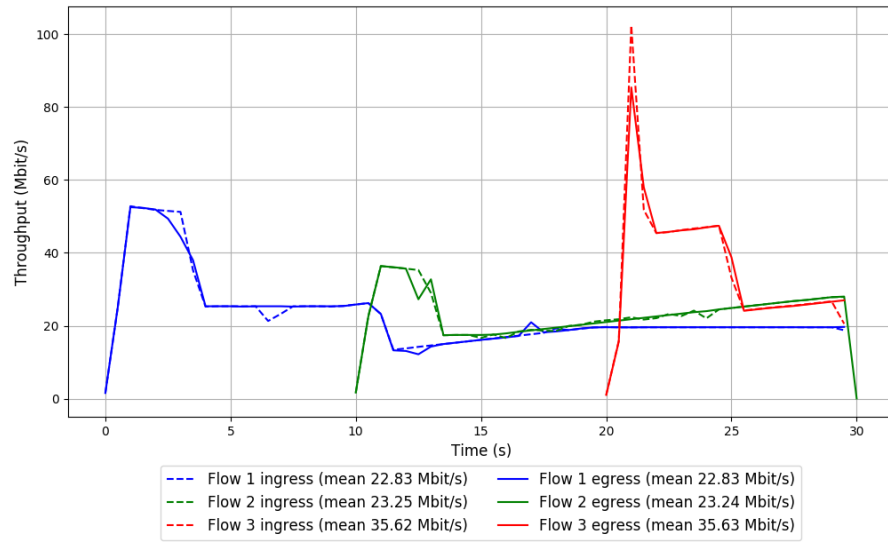
-- Flow 3:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 66.109 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-22 05:13:04

End at: 2017-11-22 05:13:34

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 64.247 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 41.50 Mbit/s

95th percentile per-packet one-way delay: 64.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 64.206 ms

Loss rate: 0.00%

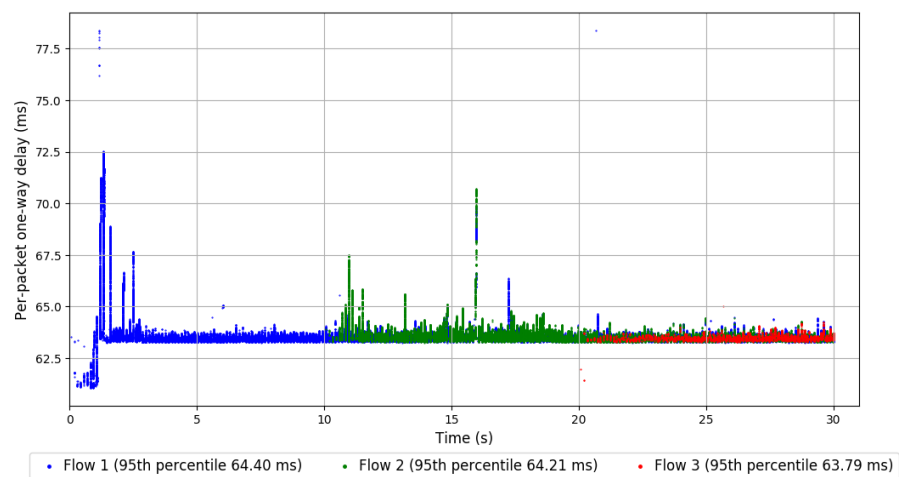
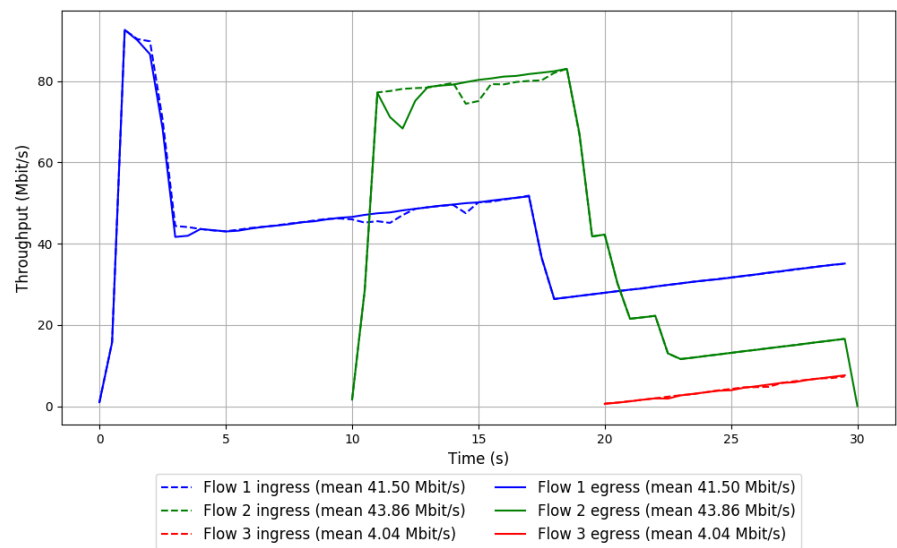
-- Flow 3:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 63.792 ms

Loss rate: 0.12%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-22 05:25:22

End at: 2017-11-22 05:25:52

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 63.986 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.02 Mbit/s

95th percentile per-packet one-way delay: 63.902 ms

Loss rate: 0.00%

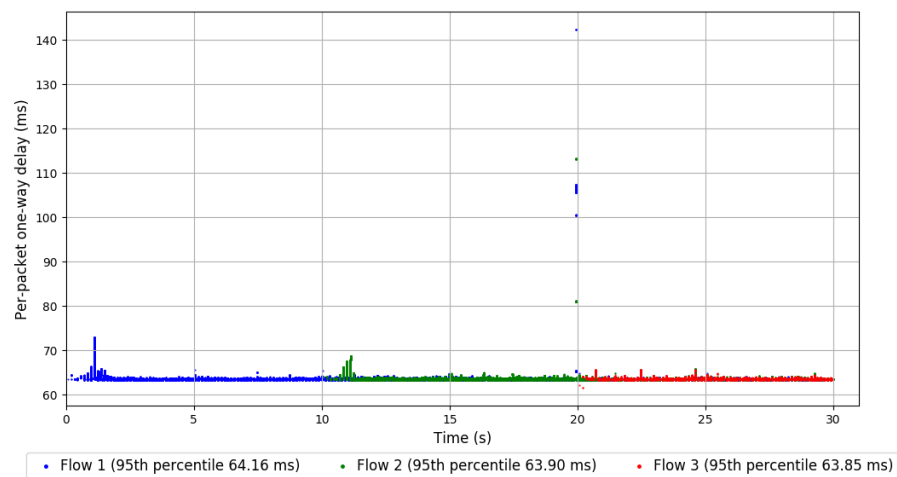
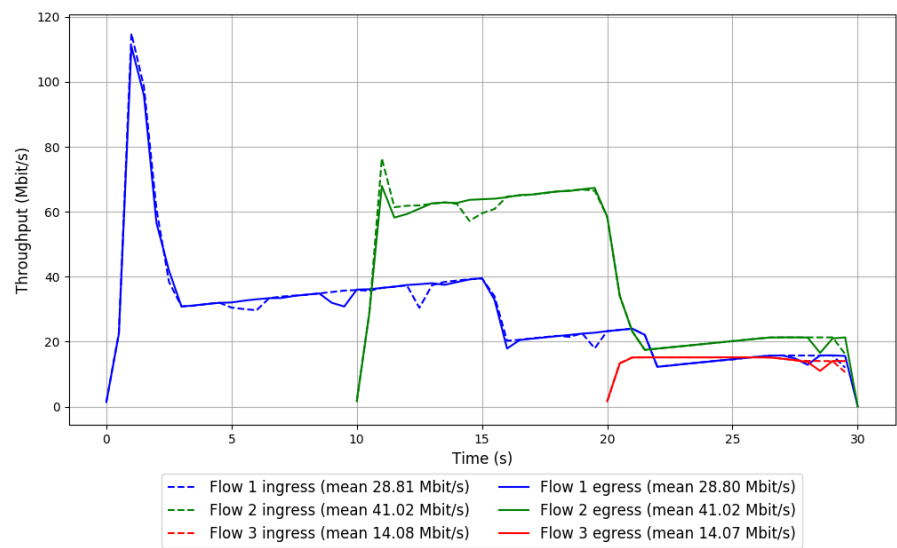
-- Flow 3:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-22 05:37:35

End at: 2017-11-22 05:38:05

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.25 Mbit/s

95th percentile per-packet one-way delay: 68.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 65.601 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 65.666 ms

Loss rate: 0.01%

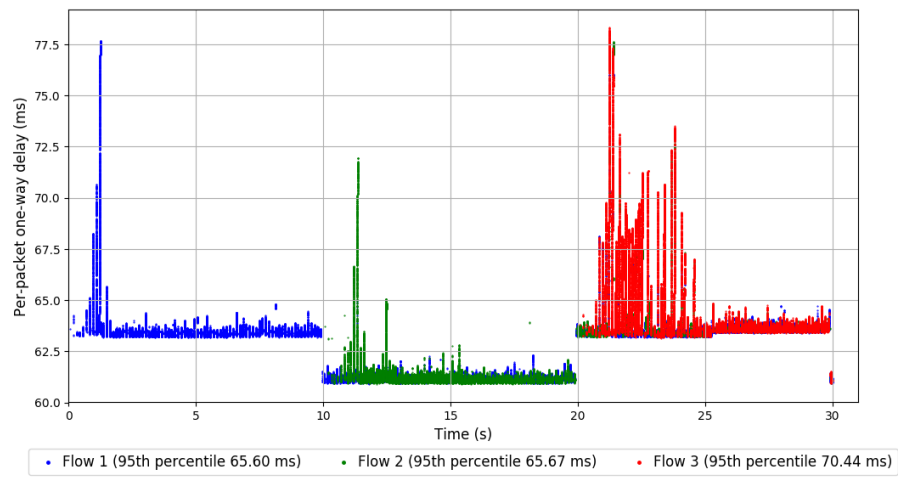
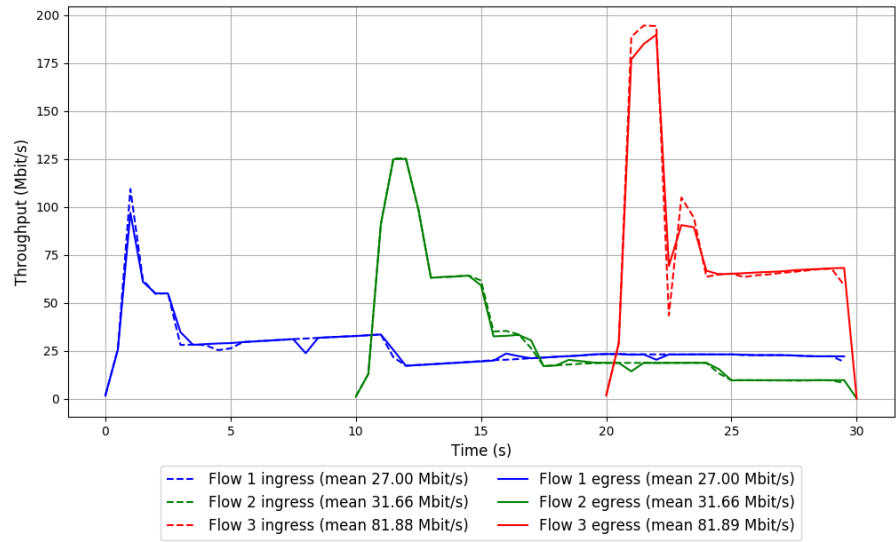
-- Flow 3:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 70.443 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-22 05:49:45

End at: 2017-11-22 05:50:15

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.33 Mbit/s

95th percentile per-packet one-way delay: 64.969 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 64.878 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 64.120 ms

Loss rate: 0.00%

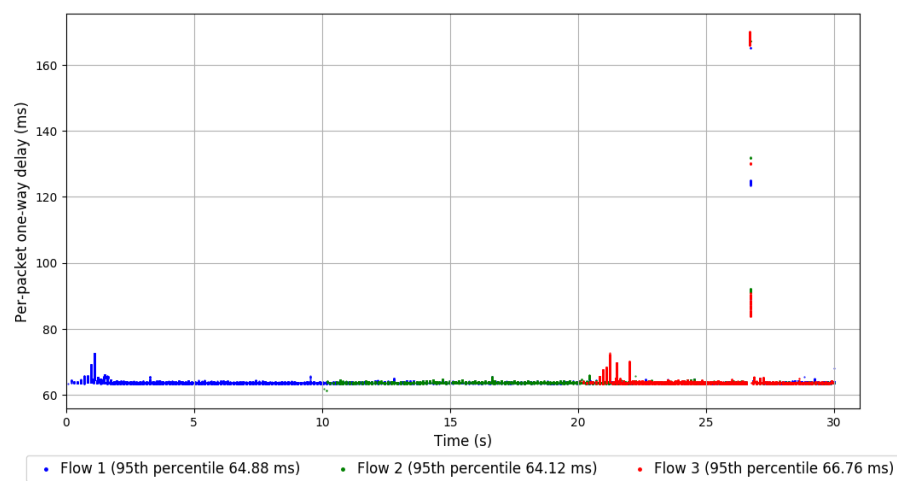
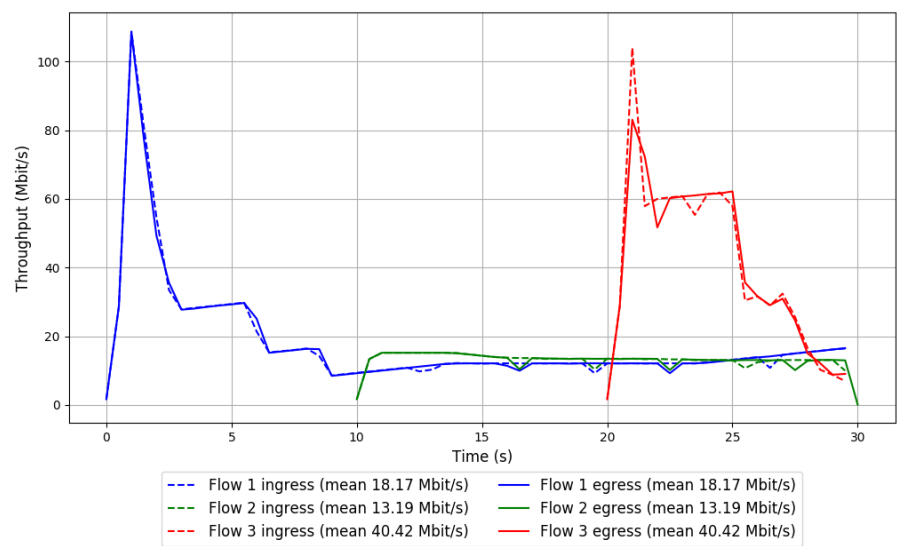
-- Flow 3:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 66.761 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-22 06:01:50

End at: 2017-11-22 06:02:20

Below is generated by plot.py at 2017-11-22 08:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.99 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 40.55 Mbit/s

95th percentile per-packet one-way delay: 63.908 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.39 Mbit/s

95th percentile per-packet one-way delay: 65.113 ms

Loss rate: 0.01%

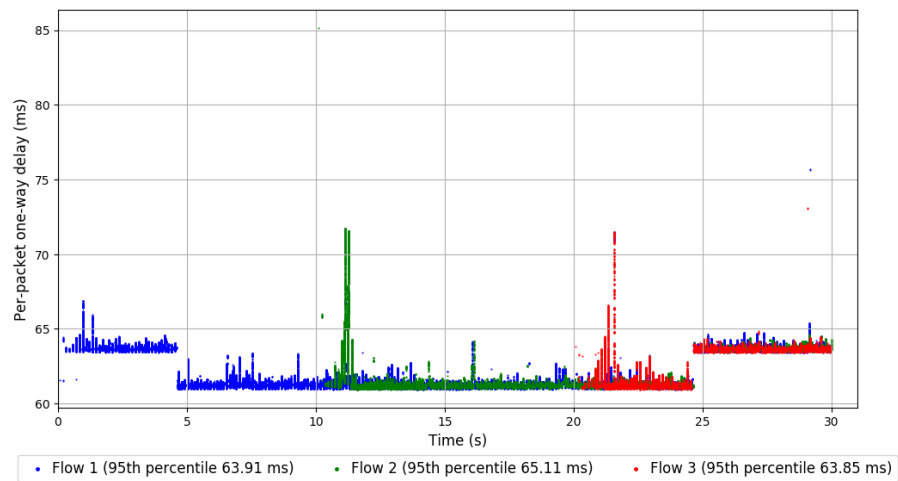
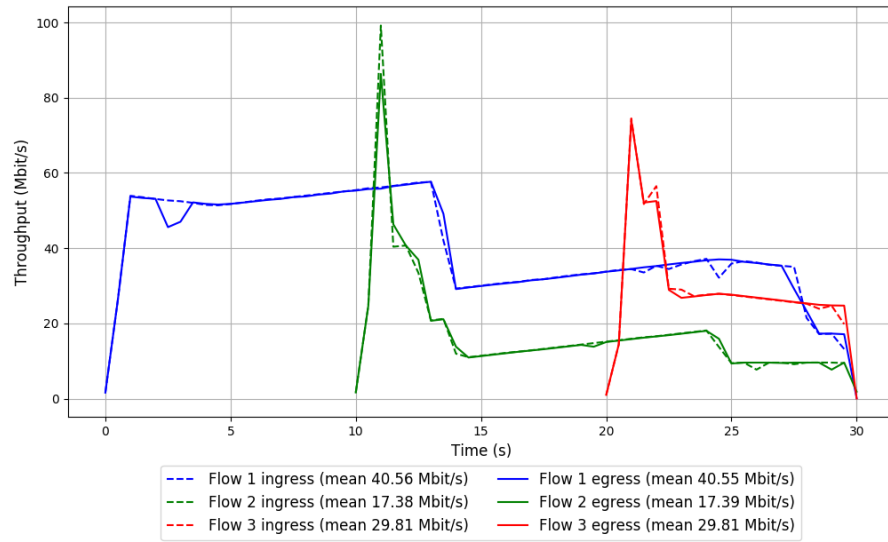
-- Flow 3:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 63.847 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-22 04:15:45

End at: 2017-11-22 04:16:15

Below is generated by plot.py at 2017-11-22 08:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.16 Mbit/s

95th percentile per-packet one-way delay: 222.541 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 241.62 Mbit/s

95th percentile per-packet one-way delay: 229.388 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 167.935 ms

Loss rate: 0.34%

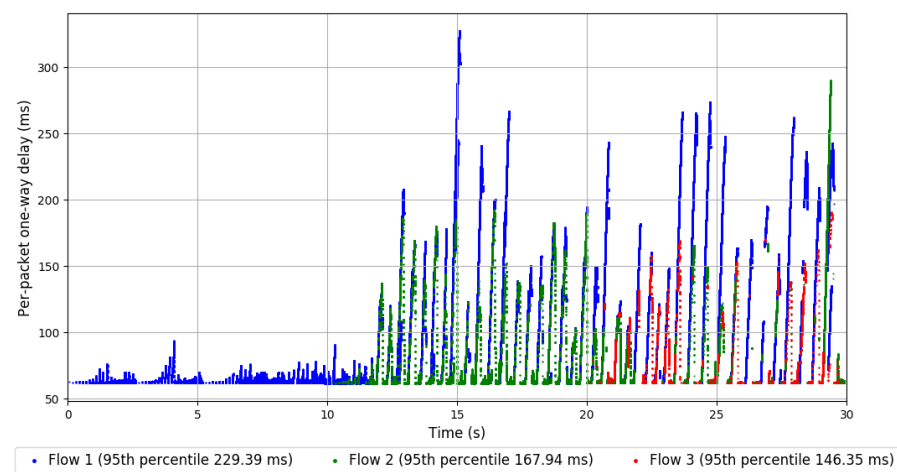
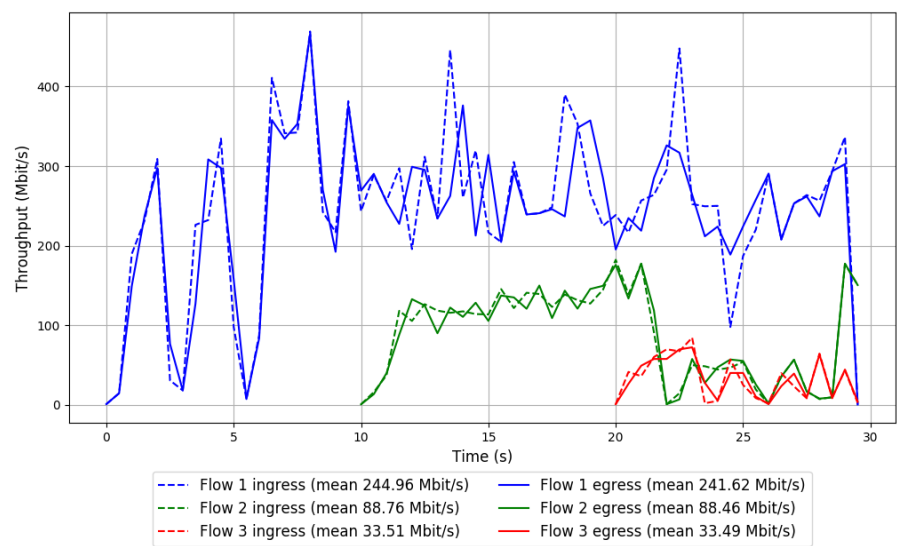
-- Flow 3:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 146.354 ms

Loss rate: 0.07%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-22 04:28:09

End at: 2017-11-22 04:28:39

Below is generated by plot.py at 2017-11-22 08:15:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.53 Mbit/s

95th percentile per-packet one-way delay: 177.422 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 249.99 Mbit/s

95th percentile per-packet one-way delay: 182.691 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 112.91 Mbit/s

95th percentile per-packet one-way delay: 161.614 ms

Loss rate: 0.52%

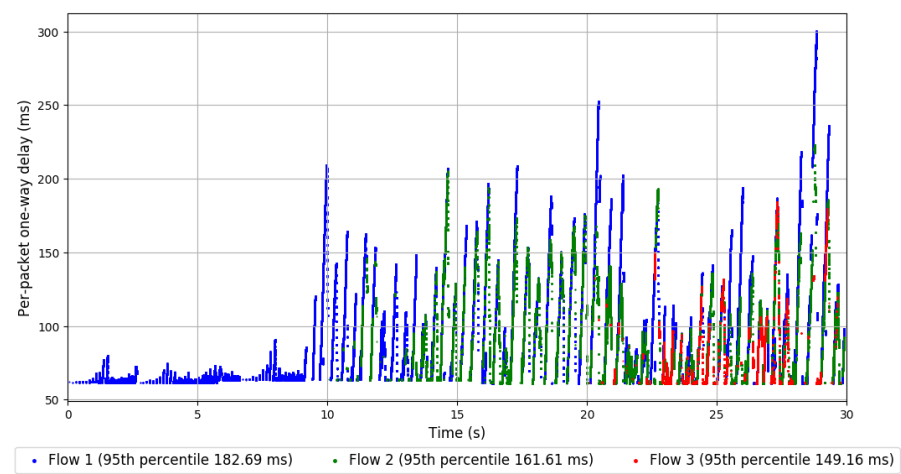
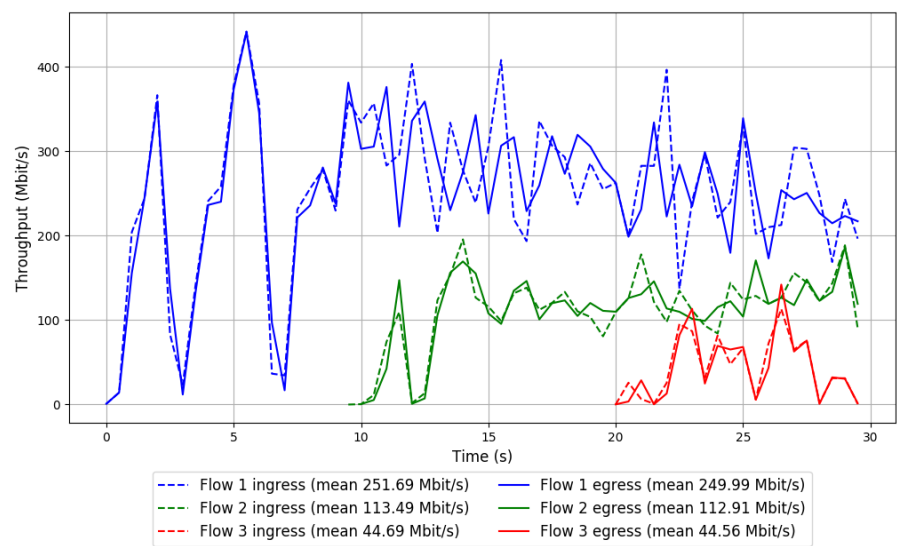
-- Flow 3:

Average throughput: 44.56 Mbit/s

95th percentile per-packet one-way delay: 149.162 ms

Loss rate: 0.28%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-22 04:40:30

End at: 2017-11-22 04:41:00

Below is generated by plot.py at 2017-11-22 08:15:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.96 Mbit/s

95th percentile per-packet one-way delay: 146.791 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 119.63 Mbit/s

95th percentile per-packet one-way delay: 136.154 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 152.063 ms

Loss rate: 1.03%

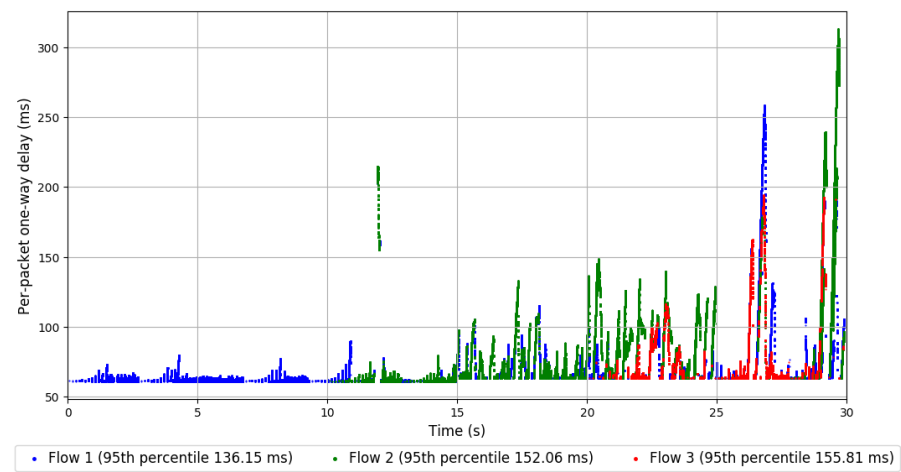
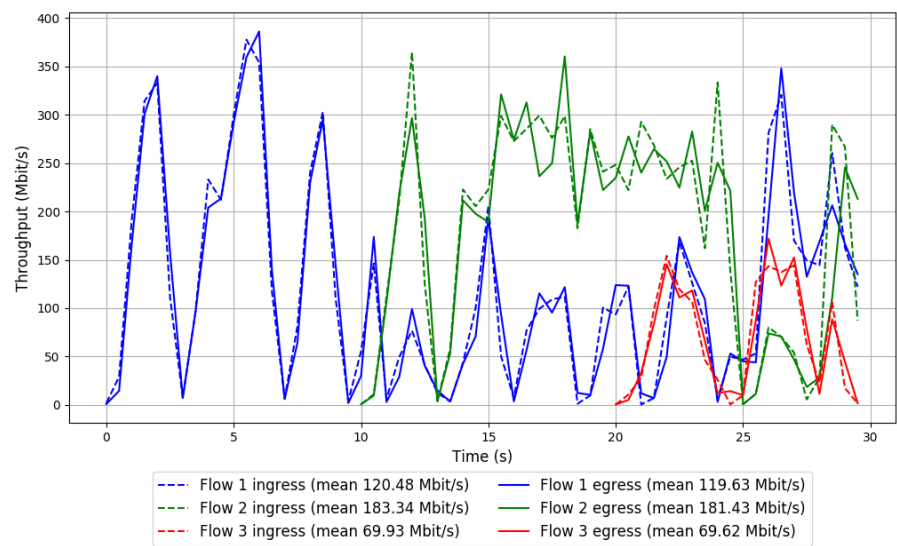
-- Flow 3:

Average throughput: 69.62 Mbit/s

95th percentile per-packet one-way delay: 155.814 ms

Loss rate: 0.21%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-22 04:52:38

End at: 2017-11-22 04:53:08

Below is generated by plot.py at 2017-11-22 08:15:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.01 Mbit/s

95th percentile per-packet one-way delay: 116.714 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 162.53 Mbit/s

95th percentile per-packet one-way delay: 127.117 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 106.803 ms

Loss rate: 0.01%

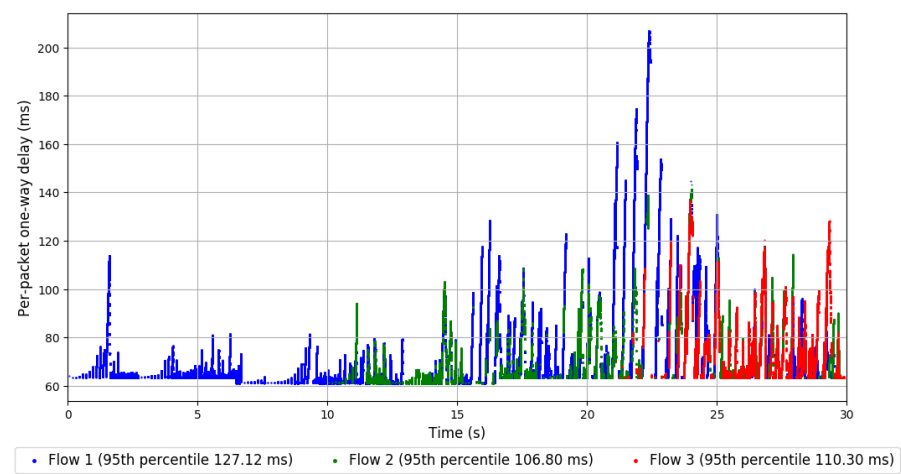
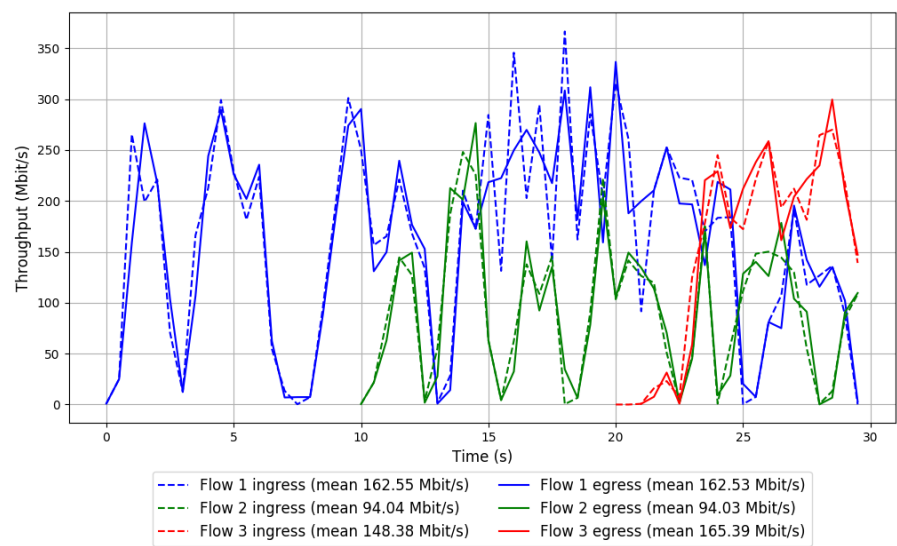
-- Flow 3:

Average throughput: 165.39 Mbit/s

95th percentile per-packet one-way delay: 110.297 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-22 05:05:02

End at: 2017-11-22 05:05:32

Below is generated by plot.py at 2017-11-22 08:15:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.31 Mbit/s

95th percentile per-packet one-way delay: 135.884 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 231.01 Mbit/s

95th percentile per-packet one-way delay: 134.543 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 113.06 Mbit/s

95th percentile per-packet one-way delay: 141.119 ms

Loss rate: 0.00%

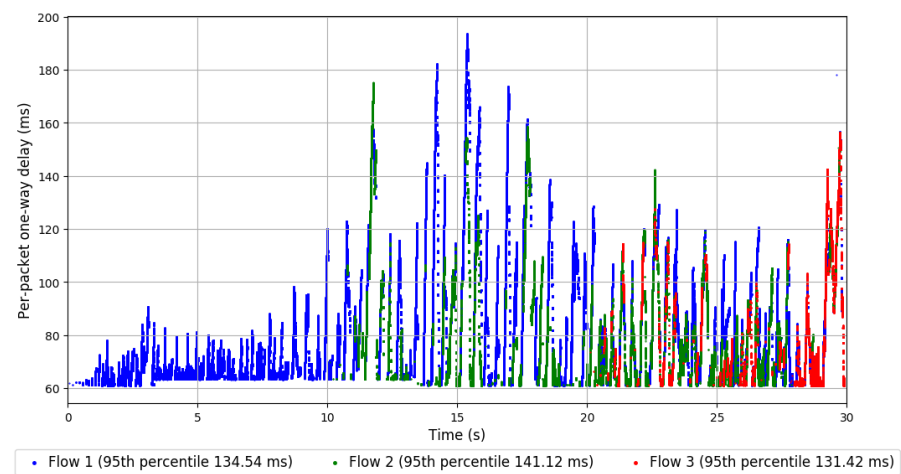
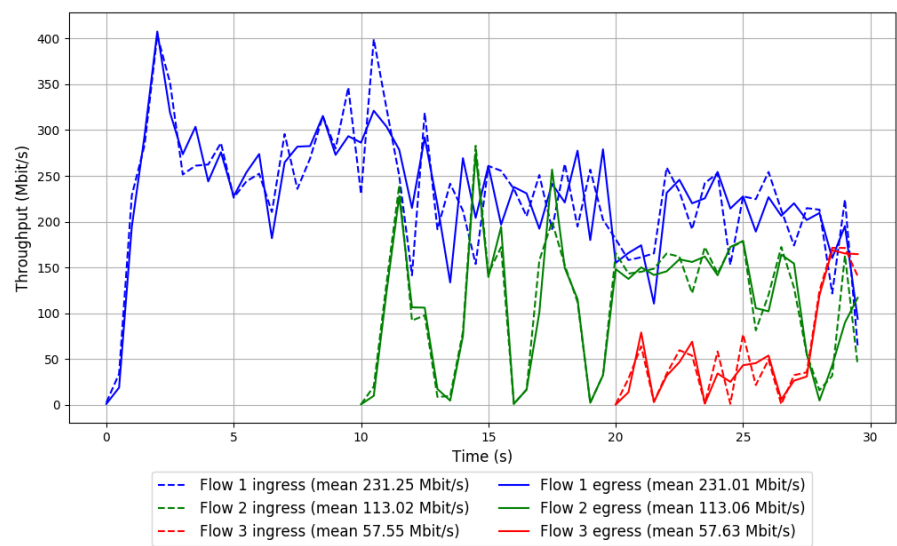
-- Flow 3:

Average throughput: 57.63 Mbit/s

95th percentile per-packet one-way delay: 131.420 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-22 05:17:24

End at: 2017-11-22 05:17:54

Below is generated by plot.py at 2017-11-22 08:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.86 Mbit/s

95th percentile per-packet one-way delay: 140.488 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 166.54 Mbit/s

95th percentile per-packet one-way delay: 120.885 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 185.78 Mbit/s

95th percentile per-packet one-way delay: 150.224 ms

Loss rate: 0.21%

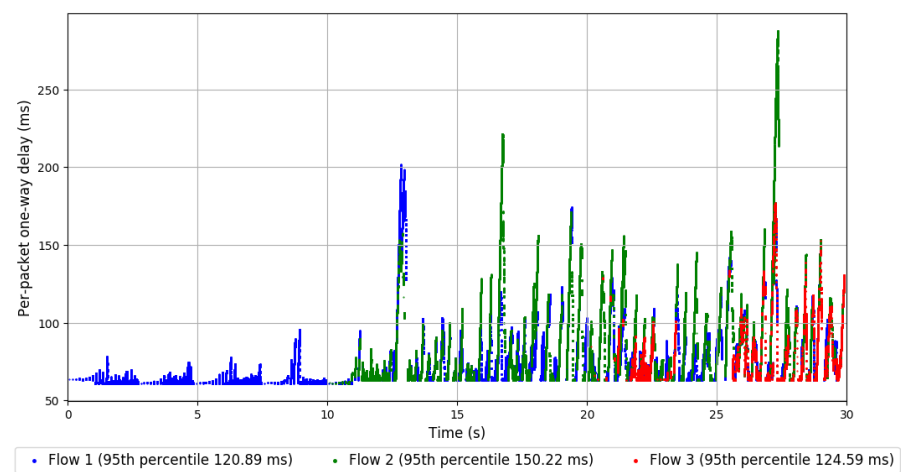
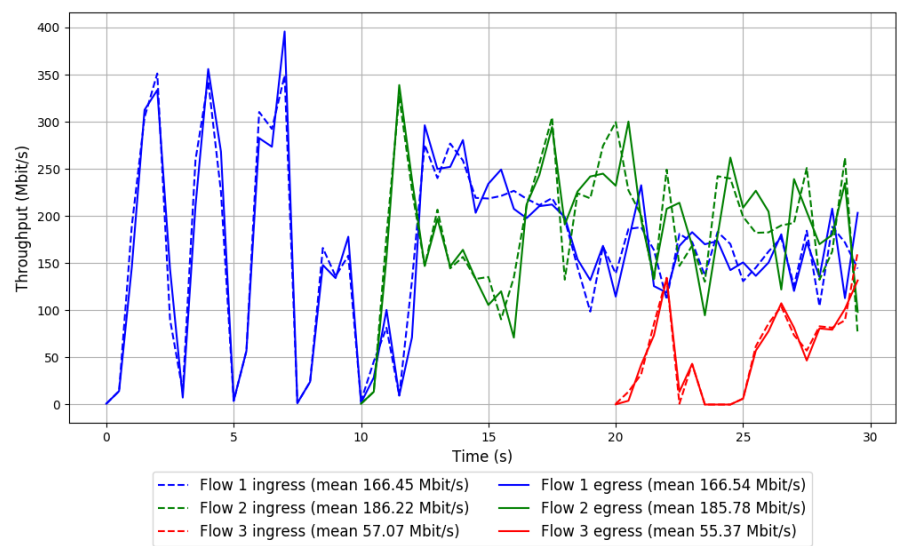
-- Flow 3:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 124.595 ms

Loss rate: 3.08%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-22 05:29:36

End at: 2017-11-22 05:30:06

Below is generated by plot.py at 2017-11-22 08:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.36 Mbit/s

95th percentile per-packet one-way delay: 245.979 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 255.39 Mbit/s

95th percentile per-packet one-way delay: 250.207 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 177.656 ms

Loss rate: 1.63%

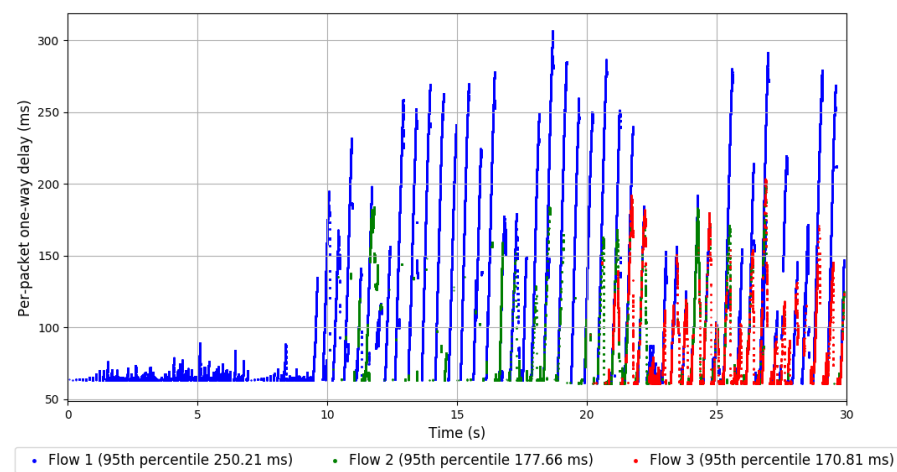
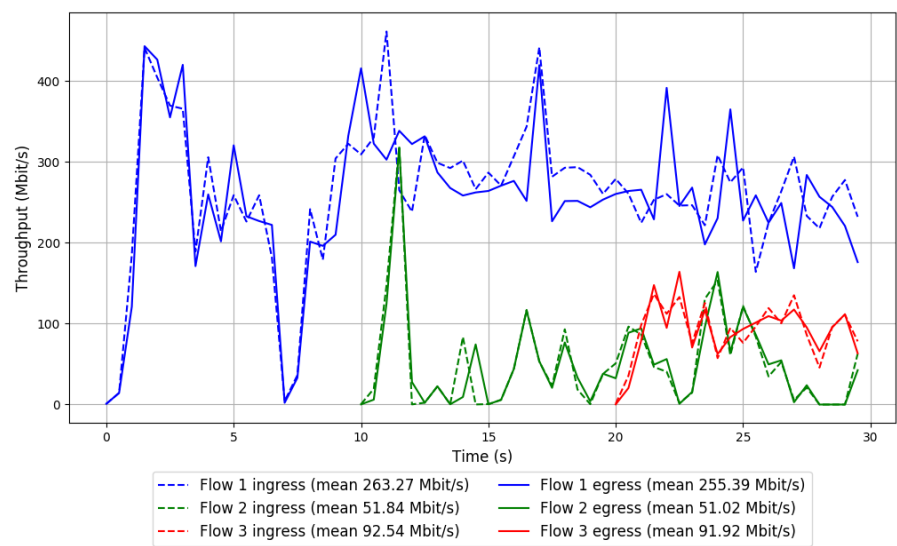
-- Flow 3:

Average throughput: 91.92 Mbit/s

95th percentile per-packet one-way delay: 170.814 ms

Loss rate: 1.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-22 05:41:54

End at: 2017-11-22 05:42:24

Below is generated by plot.py at 2017-11-22 08:17:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.77 Mbit/s

95th percentile per-packet one-way delay: 187.368 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 155.54 Mbit/s

95th percentile per-packet one-way delay: 101.849 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 146.58 Mbit/s

95th percentile per-packet one-way delay: 258.874 ms

Loss rate: 0.84%

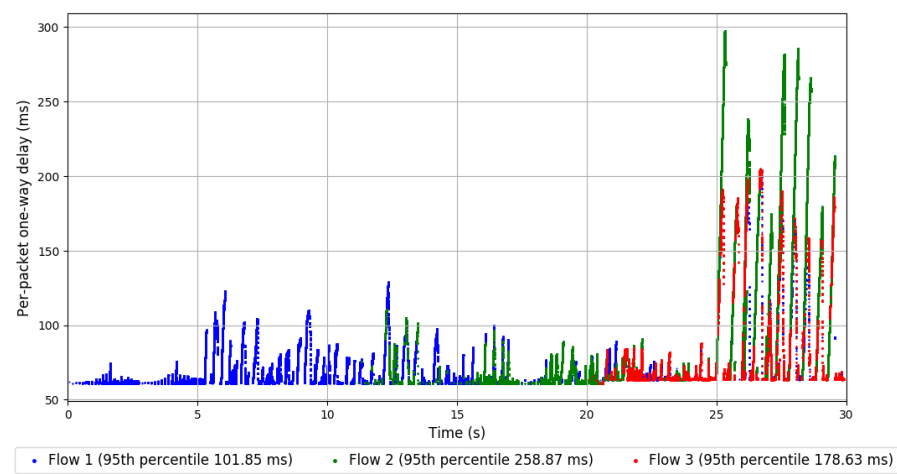
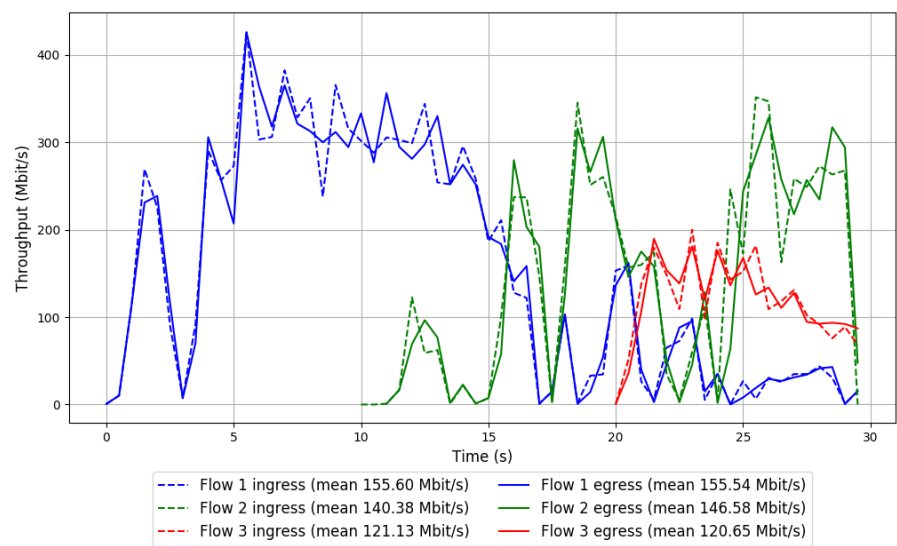
-- Flow 3:

Average throughput: 120.65 Mbit/s

95th percentile per-packet one-way delay: 178.635 ms

Loss rate: 0.39%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-22 05:54:04

End at: 2017-11-22 05:54:34

Below is generated by plot.py at 2017-11-22 08:20:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.65 Mbit/s

95th percentile per-packet one-way delay: 120.388 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 222.01 Mbit/s

95th percentile per-packet one-way delay: 120.907 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 119.309 ms

Loss rate: 0.01%

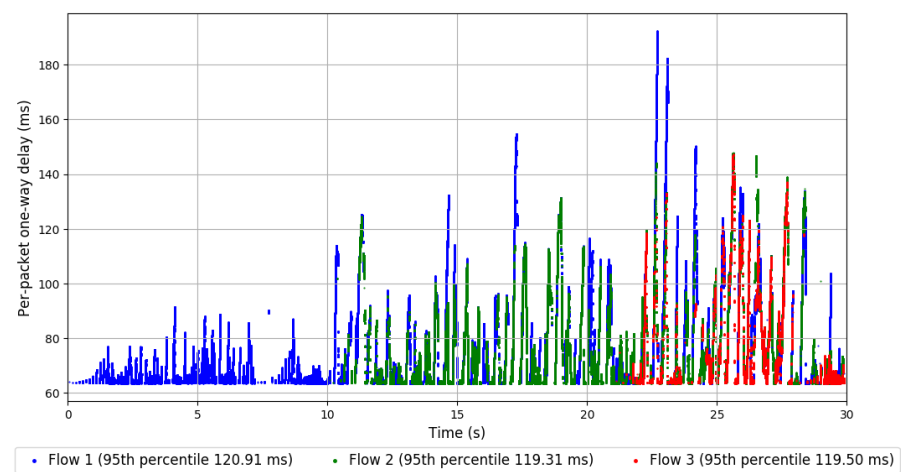
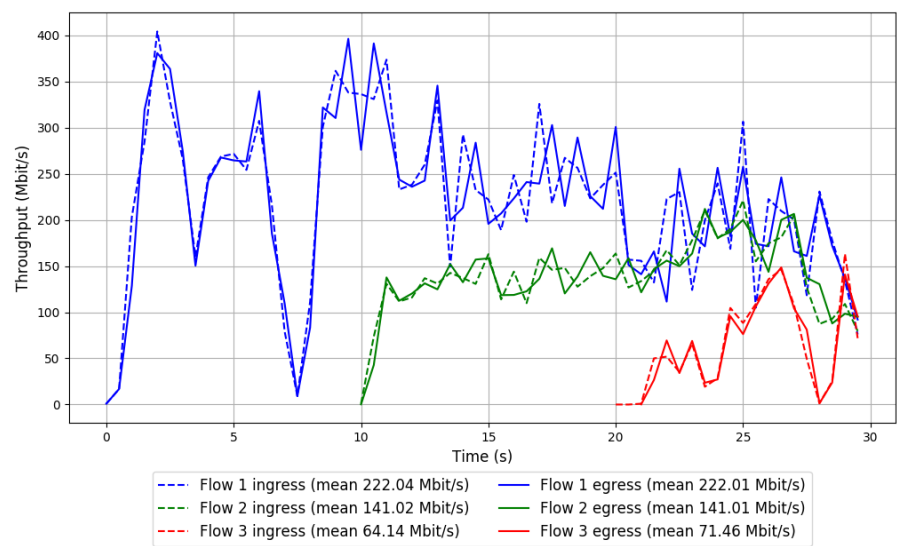
-- Flow 3:

Average throughput: 71.46 Mbit/s

95th percentile per-packet one-way delay: 119.501 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-22 06:06:11

End at: 2017-11-22 06:06:41

Below is generated by plot.py at 2017-11-22 08:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.81 Mbit/s

95th percentile per-packet one-way delay: 218.983 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 245.69 Mbit/s

95th percentile per-packet one-way delay: 223.999 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 180.230 ms

Loss rate: 2.49%

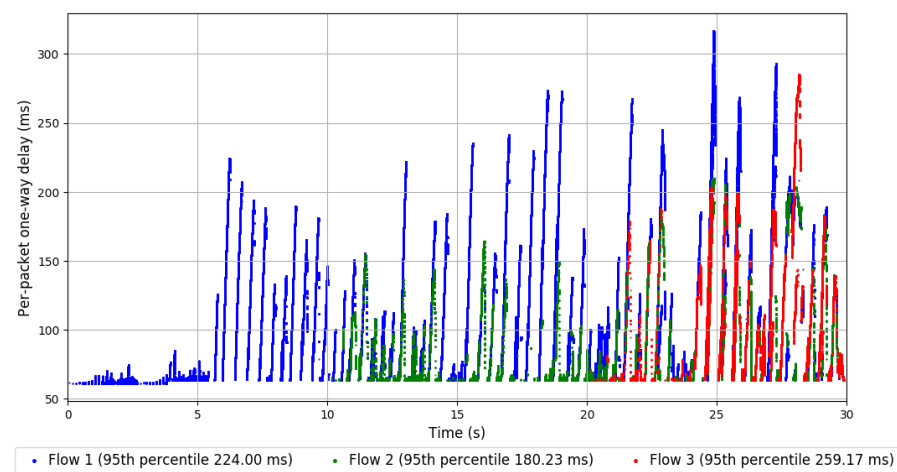
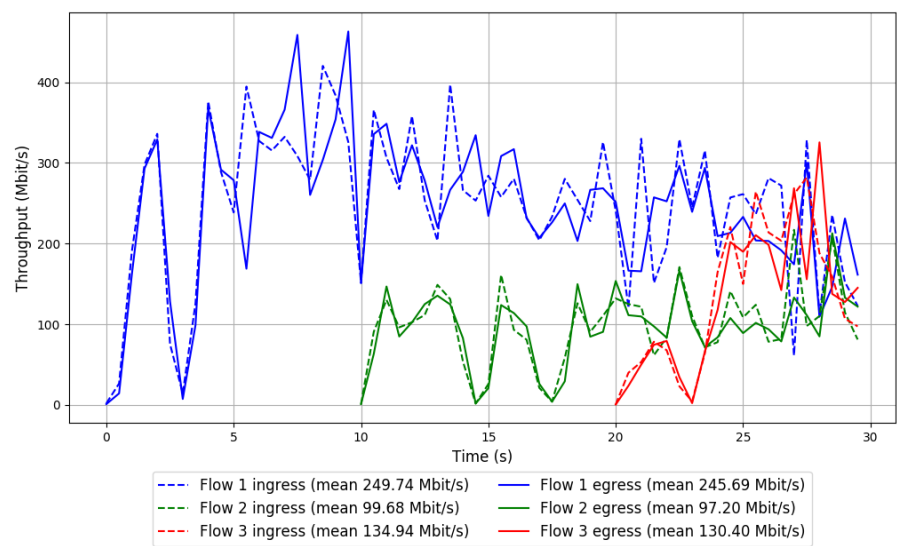
-- Flow 3:

Average throughput: 130.40 Mbit/s

95th percentile per-packet one-way delay: 259.172 ms

Loss rate: 3.43%

Run 10: Report of Verus — Data Link

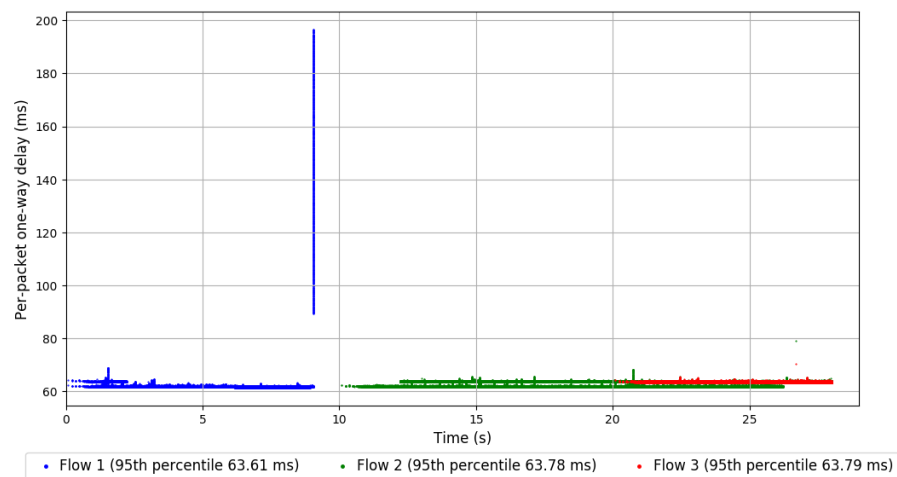
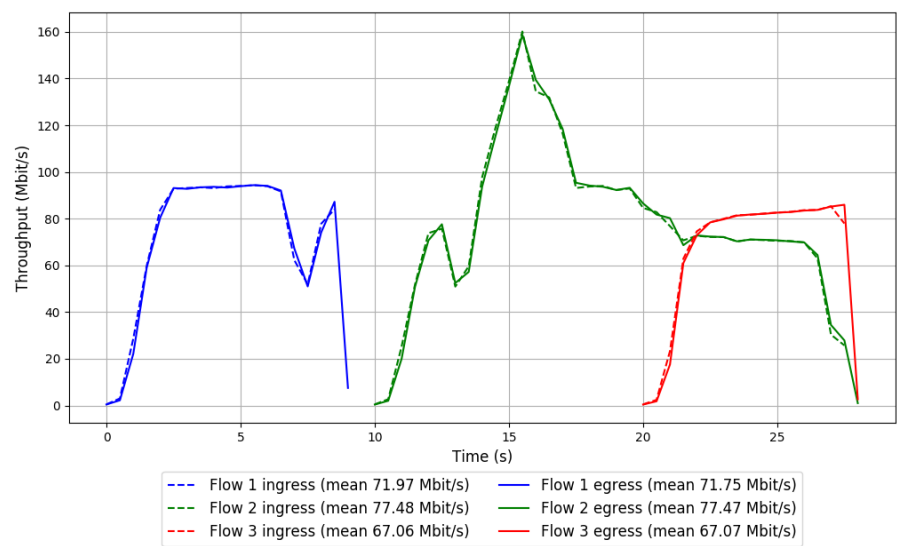


```
Run 1: Statistics of Copa

Start at: 2017-11-22 04:10:31
End at: 2017-11-22 04:11:01

# Below is generated by plot.py at 2017-11-22 08:21:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 63.770 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.07 Mbit/s
95th percentile per-packet one-way delay: 63.792 ms
Loss rate: 0.02%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-22 04:22:52

End at: 2017-11-22 04:23:22

Below is generated by plot.py at 2017-11-22 08:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.51 Mbit/s

95th percentile per-packet one-way delay: 63.751 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 63.665 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 73.92 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.01%

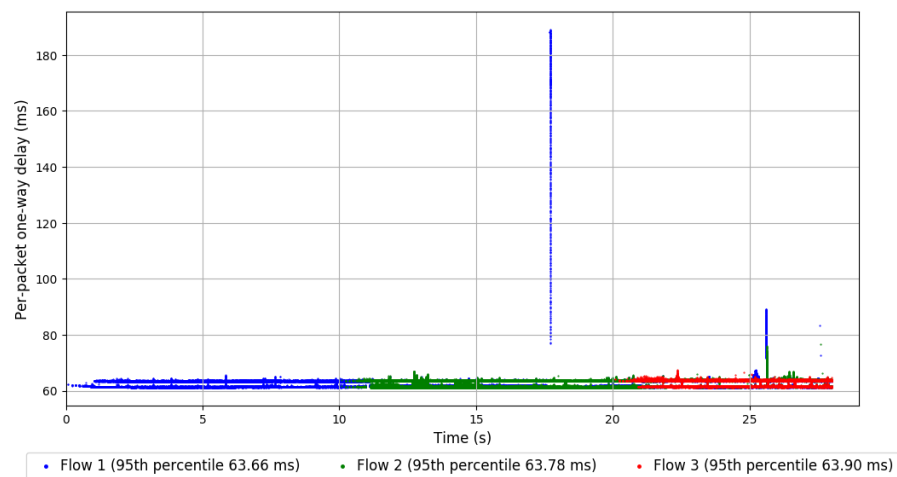
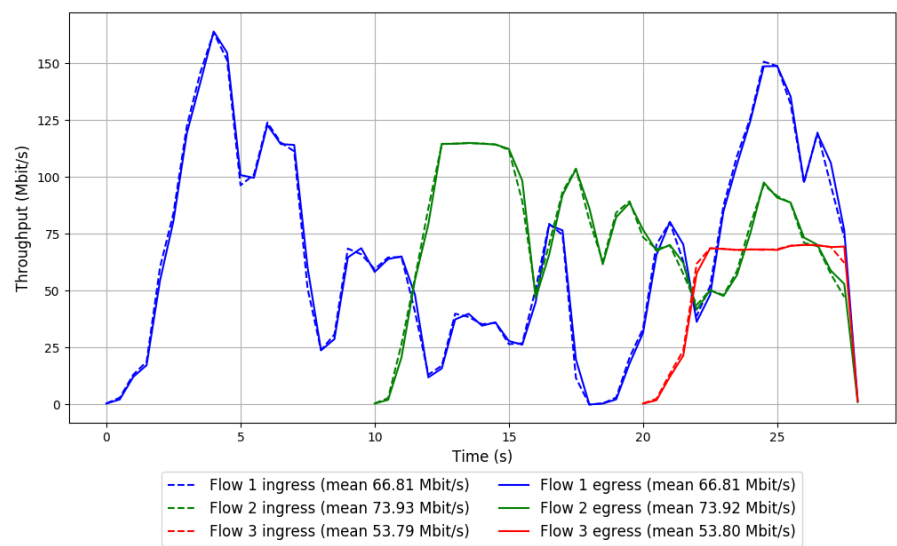
-- Flow 3:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 63.895 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-22 04:35:16

End at: 2017-11-22 04:35:46

Below is generated by plot.py at 2017-11-22 08:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.75 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 0.02%

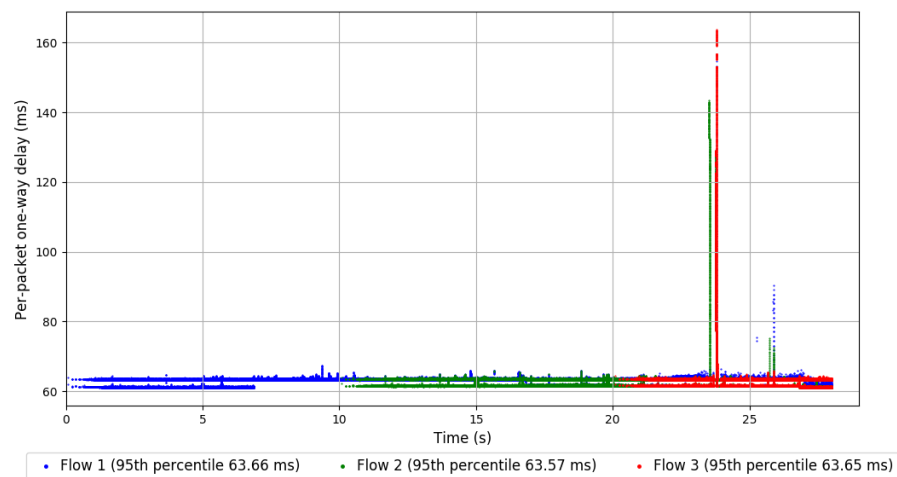
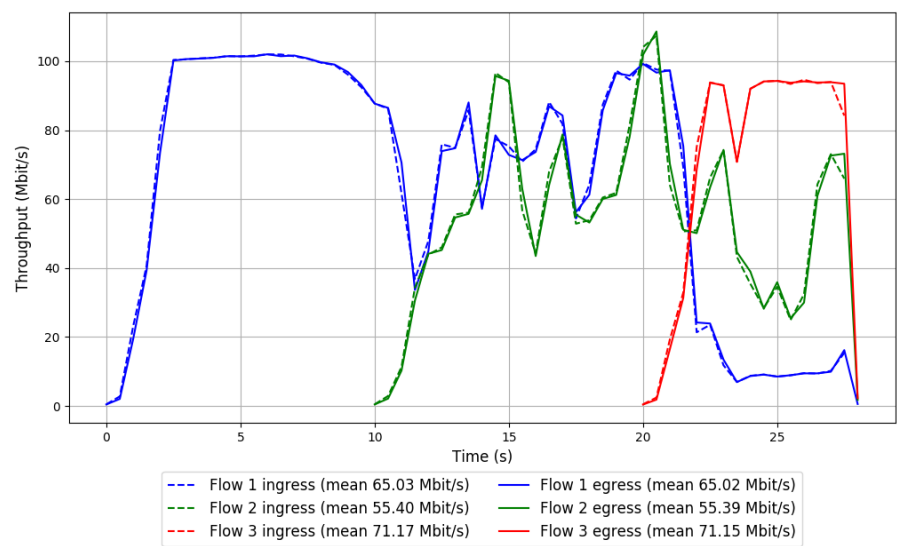
-- Flow 3:

Average throughput: 71.15 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.02%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-22 04:47:23

End at: 2017-11-22 04:47:53

Below is generated by plot.py at 2017-11-22 08:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.18 Mbit/s

95th percentile per-packet one-way delay: 63.708 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.44 Mbit/s

95th percentile per-packet one-way delay: 63.577 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 63.822 ms

Loss rate: 0.00%

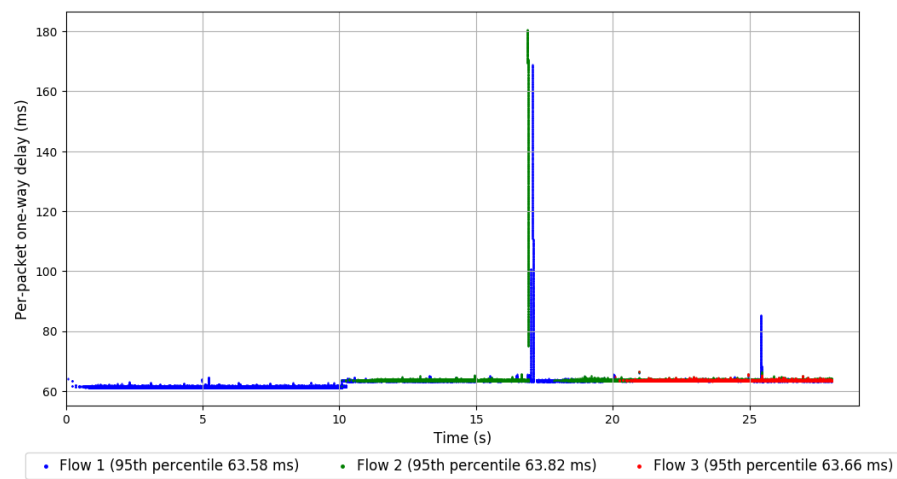
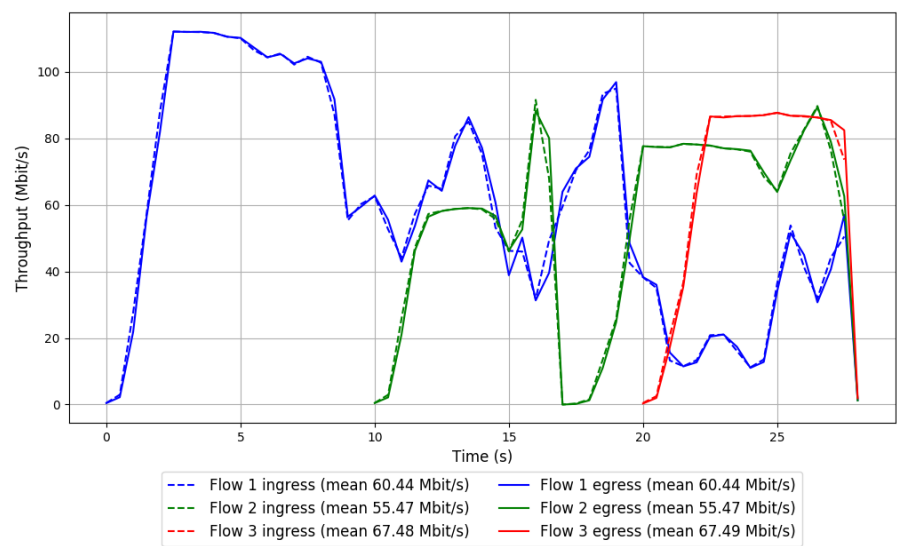
-- Flow 3:

Average throughput: 67.49 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-22 04:59:45

End at: 2017-11-22 05:00:15

Below is generated by plot.py at 2017-11-22 08:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.39 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.76 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 63.686 ms

Loss rate: 0.01%

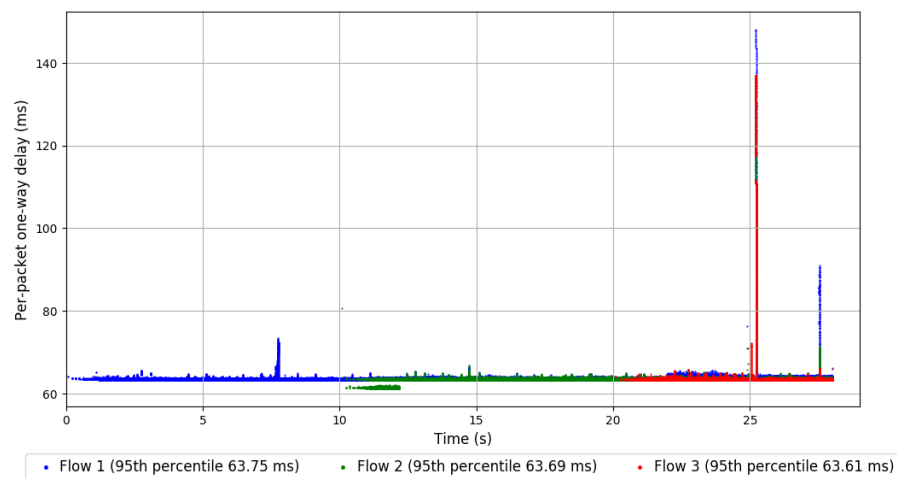
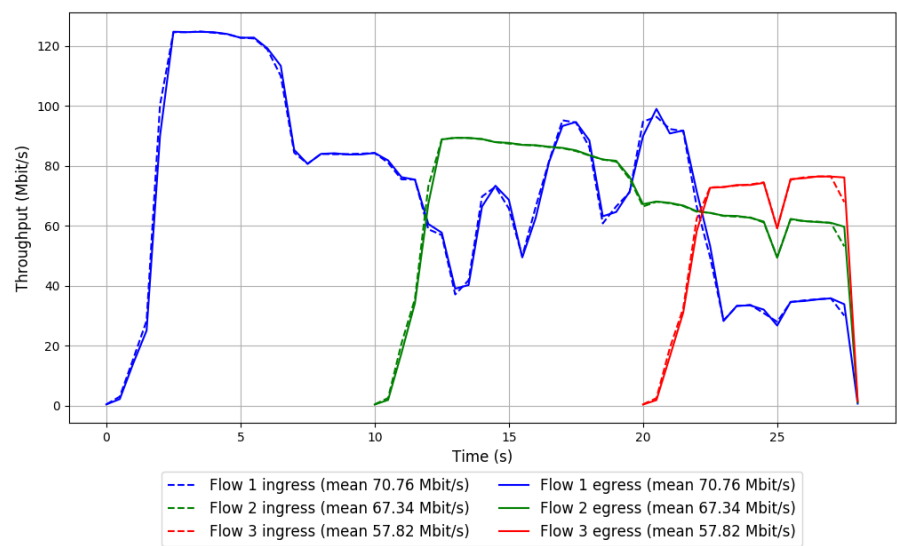
-- Flow 3:

Average throughput: 57.82 Mbit/s

95th percentile per-packet one-way delay: 63.606 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-22 05:12:09

End at: 2017-11-22 05:12:39

Below is generated by plot.py at 2017-11-22 08:22:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.86 Mbit/s

95th percentile per-packet one-way delay: 63.520 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.27 Mbit/s

95th percentile per-packet one-way delay: 63.496 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 63.512 ms

Loss rate: 0.00%

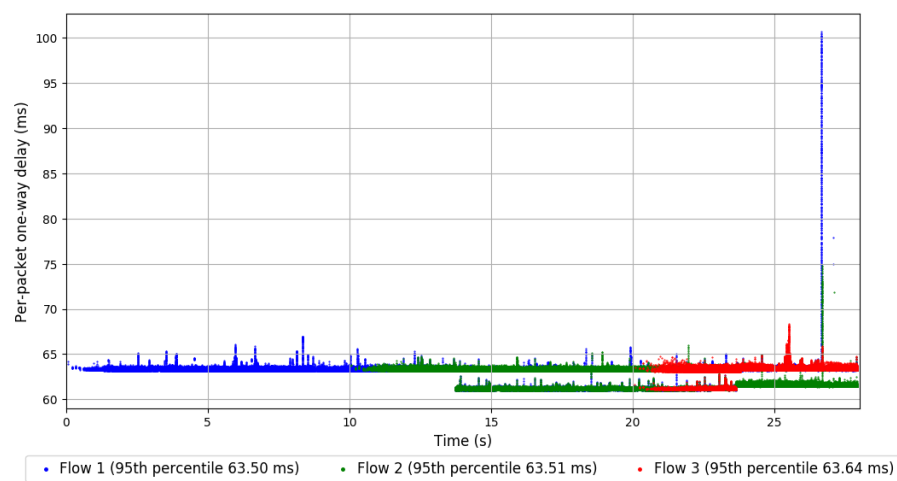
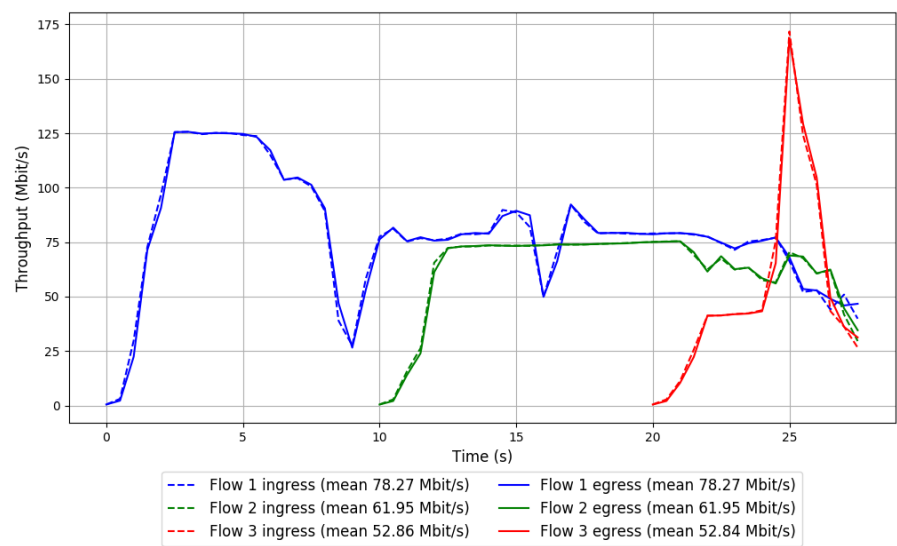
-- Flow 3:

Average throughput: 52.84 Mbit/s

95th percentile per-packet one-way delay: 63.638 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-22 05:24:26

End at: 2017-11-22 05:24:56

Below is generated by plot.py at 2017-11-22 08:22:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.38 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 63.368 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 63.376 ms

Loss rate: 0.01%

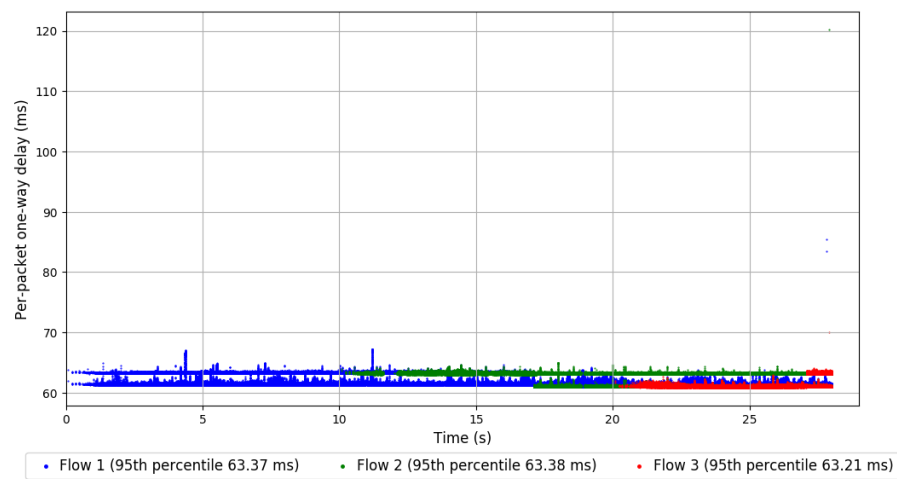
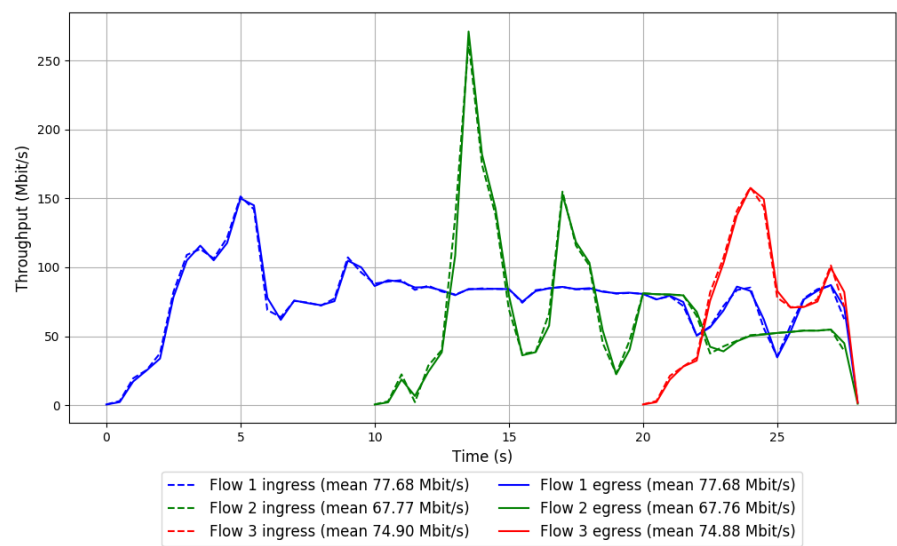
-- Flow 3:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 63.206 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-22 05:36:39

End at: 2017-11-22 05:37:09

Below is generated by plot.py at 2017-11-22 08:24:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.90 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.64 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.53 Mbit/s

95th percentile per-packet one-way delay: 63.432 ms

Loss rate: 0.00%

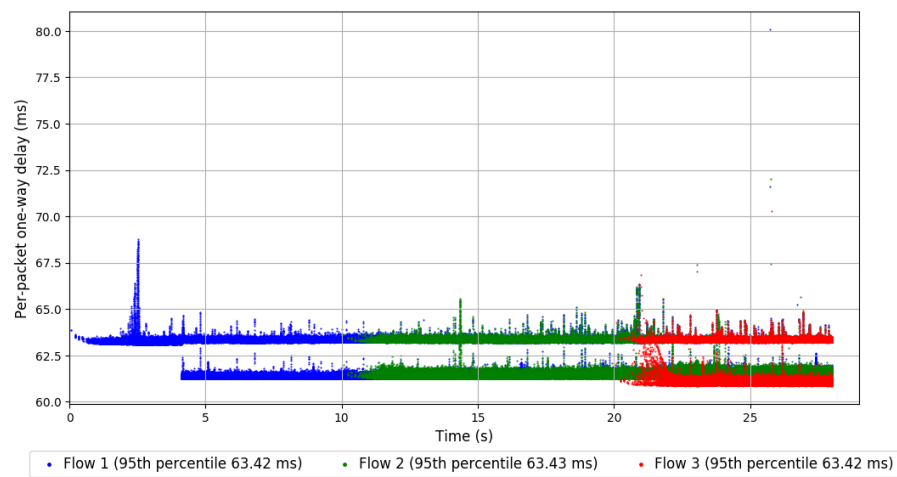
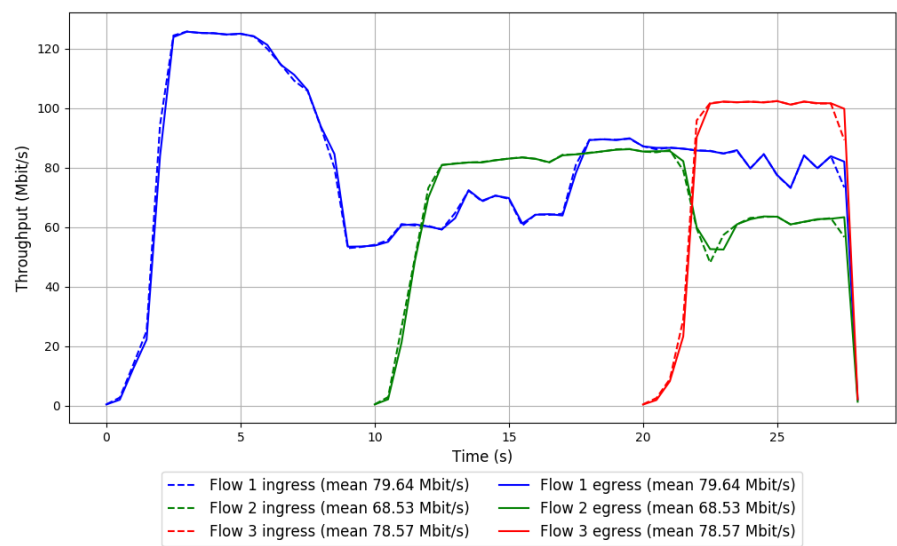
-- Flow 3:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 63.417 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-22 05:48:52

End at: 2017-11-22 05:49:22

Below is generated by plot.py at 2017-11-22 08:24:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.46 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.49 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.00%

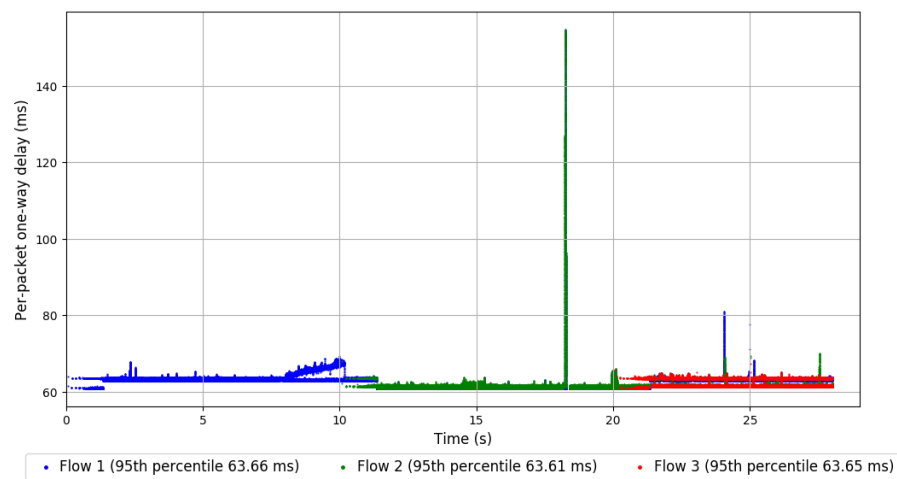
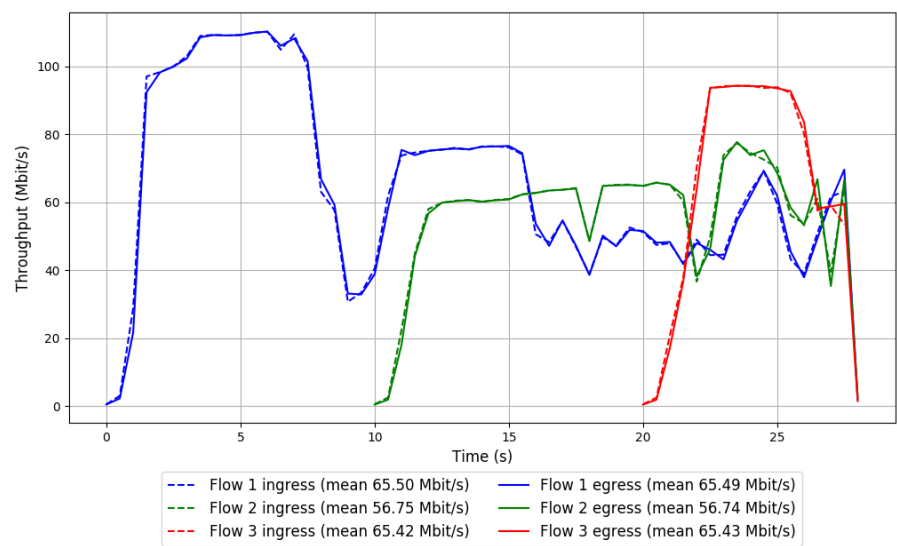
-- Flow 3:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-22 06:00:57

End at: 2017-11-22 06:01:27

Below is generated by plot.py at 2017-11-22 08:24:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.53 Mbit/s

95th percentile per-packet one-way delay: 63.664 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 63.656 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.14 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.01%

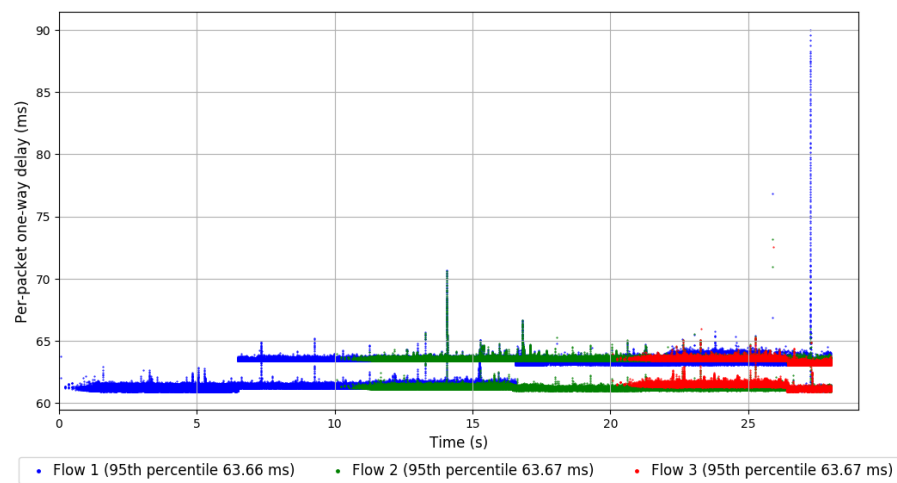
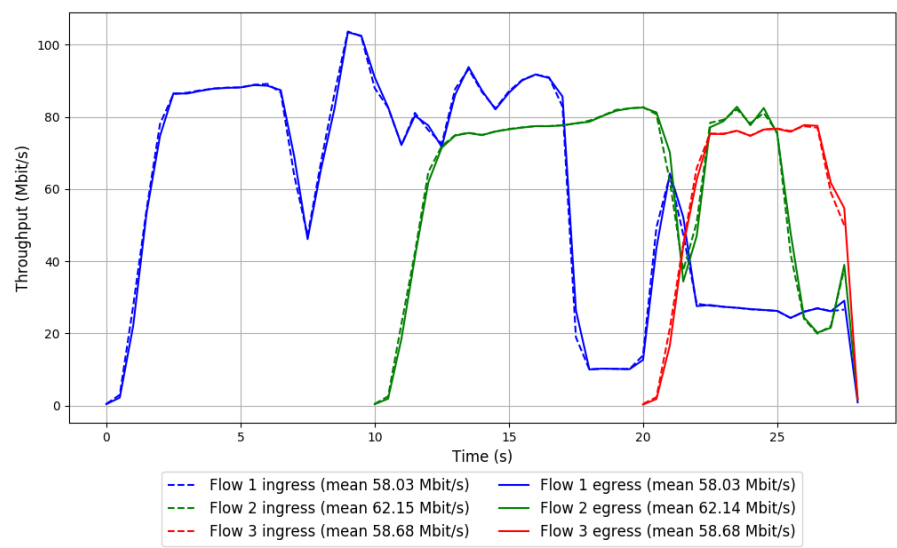
-- Flow 3:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

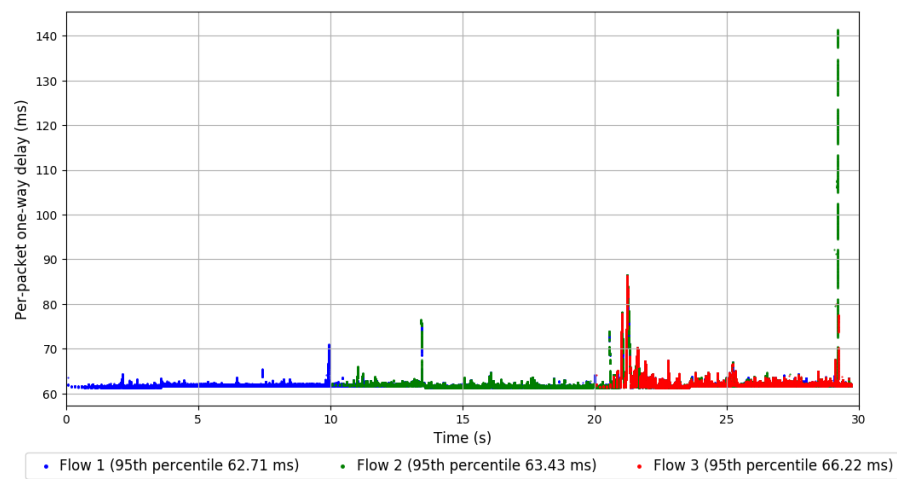
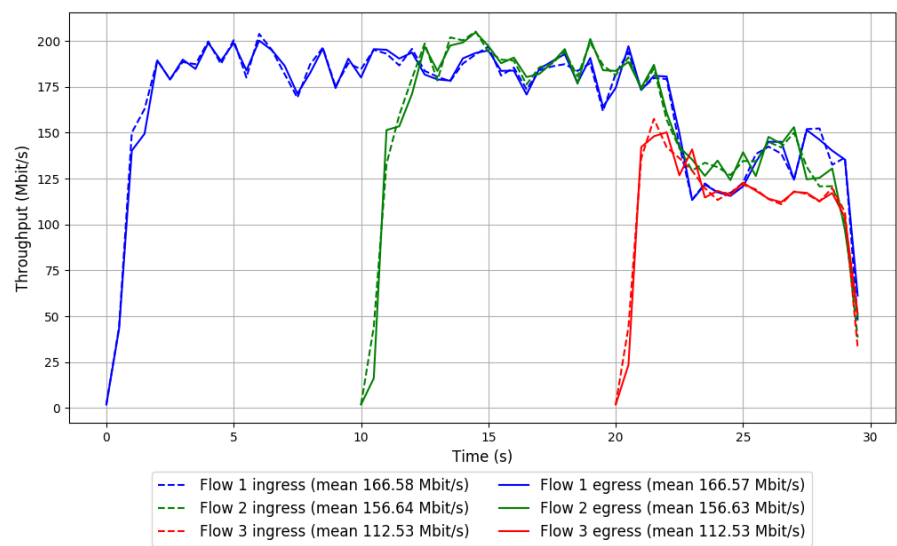


```
Run 1: Statistics of Indigo

Start at: 2017-11-22 04:13:51
End at: 2017-11-22 04:14:21

# Below is generated by plot.py at 2017-11-22 08:26:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.90 Mbit/s
95th percentile per-packet one-way delay: 63.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.57 Mbit/s
95th percentile per-packet one-way delay: 62.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 156.63 Mbit/s
95th percentile per-packet one-way delay: 63.432 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 112.53 Mbit/s
95th percentile per-packet one-way delay: 66.222 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo — Data Link

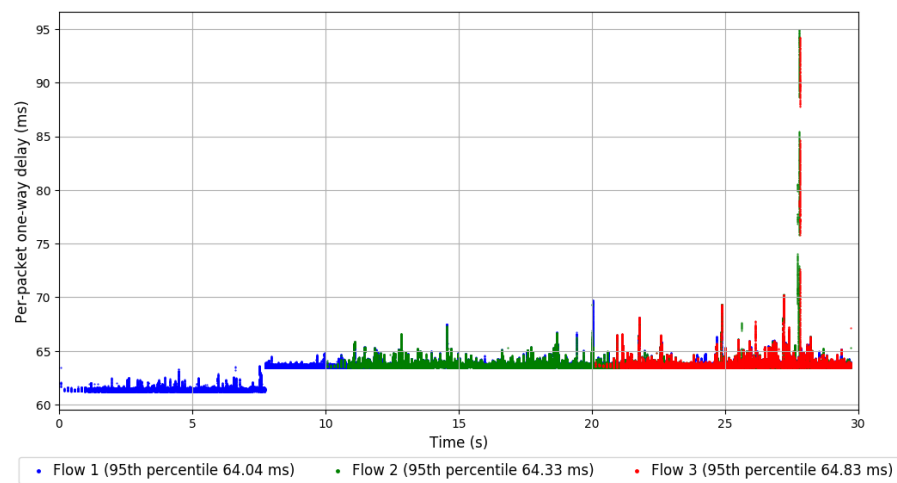
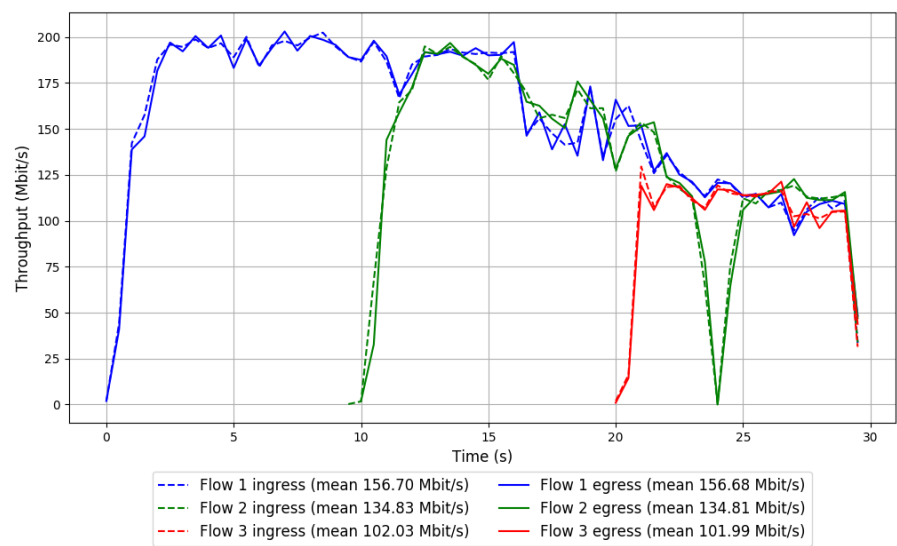


```
Run 2: Statistics of Indigo

Start at: 2017-11-22 04:26:17
End at: 2017-11-22 04:26:47

# Below is generated by plot.py at 2017-11-22 08:26:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.92 Mbit/s
95th percentile per-packet one-way delay: 64.218 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 156.68 Mbit/s
95th percentile per-packet one-way delay: 64.039 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 134.81 Mbit/s
95th percentile per-packet one-way delay: 64.335 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 101.99 Mbit/s
95th percentile per-packet one-way delay: 64.826 ms
Loss rate: 0.03%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-22 04:38:39

End at: 2017-11-22 04:39:09

Below is generated by plot.py at 2017-11-22 08:26:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.86 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 158.77 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 136.93 Mbit/s

95th percentile per-packet one-way delay: 63.982 ms

Loss rate: 0.00%

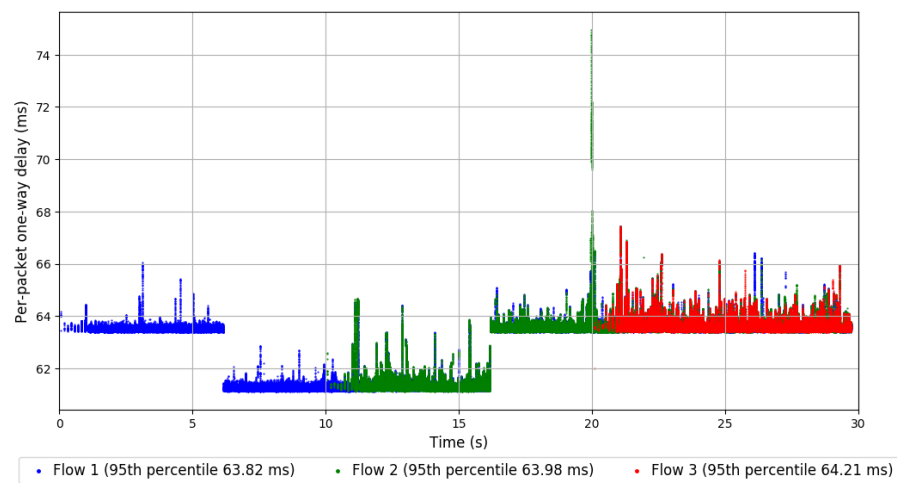
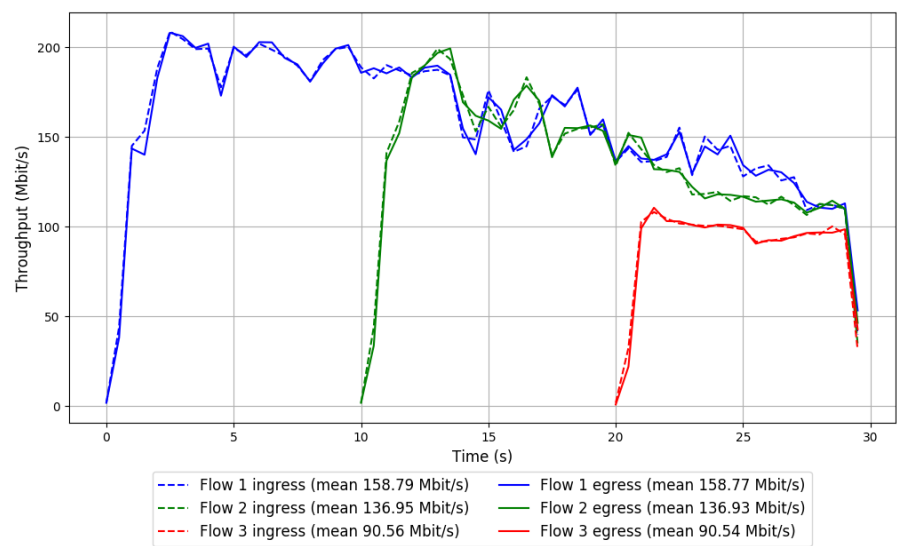
-- Flow 3:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 64.212 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-22 04:50:46

End at: 2017-11-22 04:51:16

Below is generated by plot.py at 2017-11-22 08:27:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.28 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 63.580 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 142.61 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 0.01%

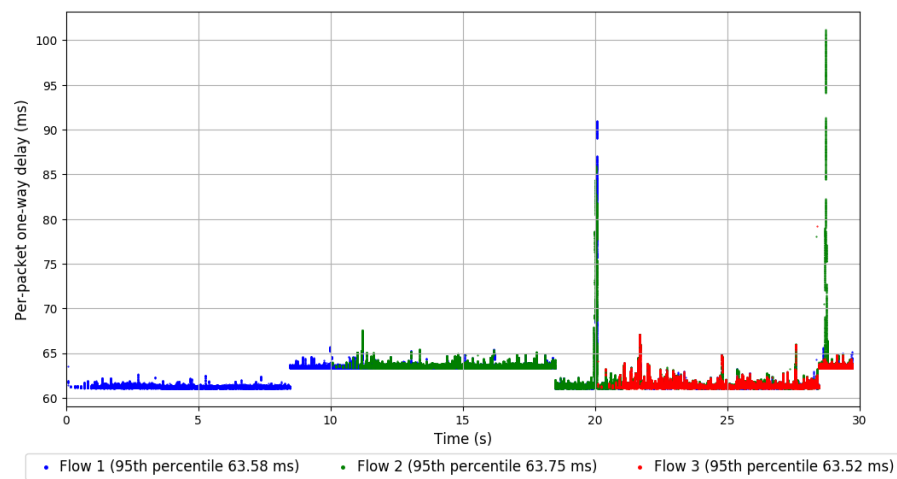
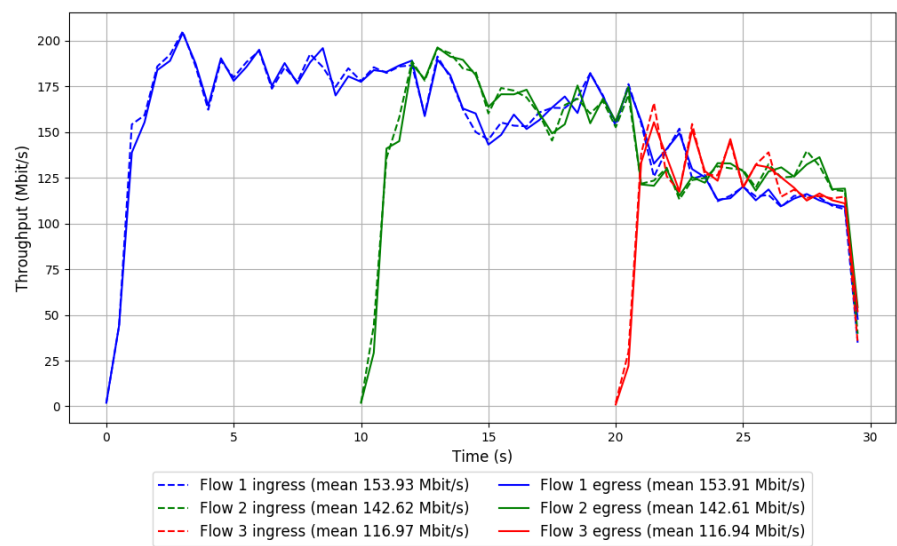
-- Flow 3:

Average throughput: 116.94 Mbit/s

95th percentile per-packet one-way delay: 63.521 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-22 05:03:07

End at: 2017-11-22 05:03:37

Below is generated by plot.py at 2017-11-22 08:28:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.54 Mbit/s

95th percentile per-packet one-way delay: 63.559 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 164.89 Mbit/s

95th percentile per-packet one-way delay: 63.528 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.14 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.01%

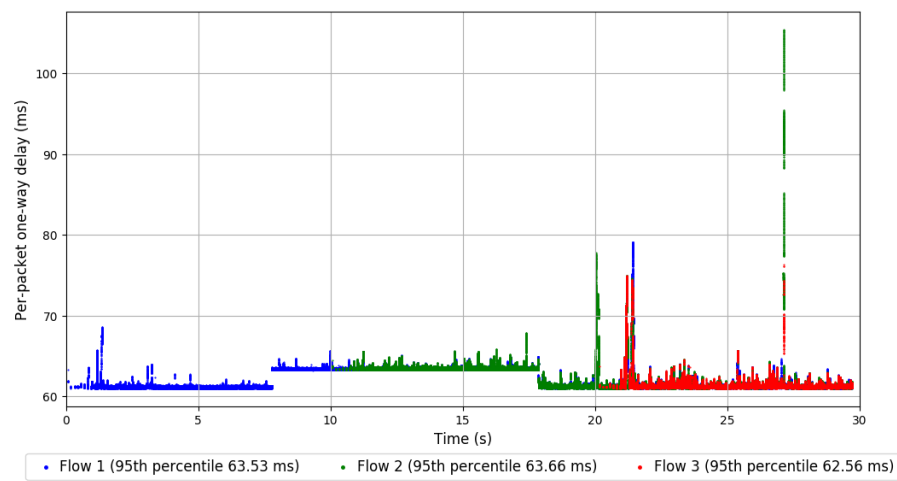
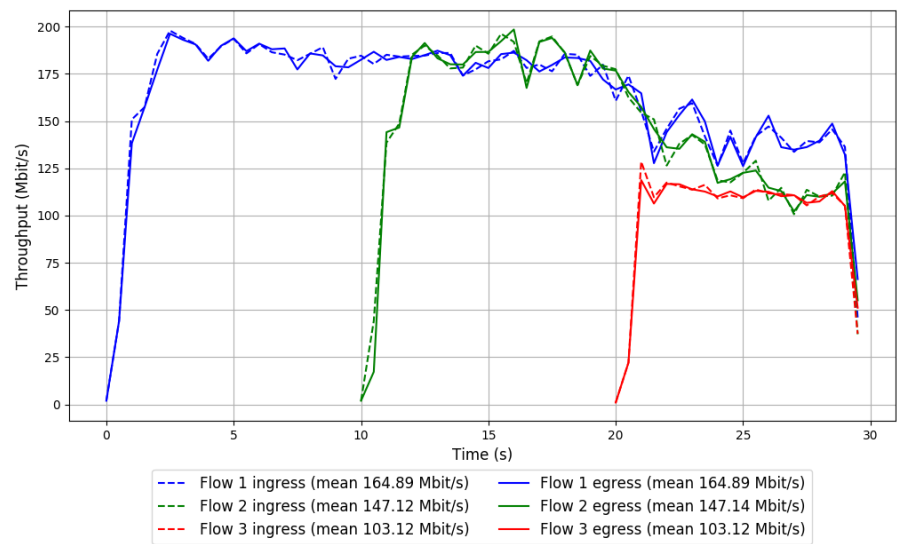
-- Flow 3:

Average throughput: 103.12 Mbit/s

95th percentile per-packet one-way delay: 62.561 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-22 05:15:31

End at: 2017-11-22 05:16:01

Below is generated by plot.py at 2017-11-22 08:29:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.73 Mbit/s

95th percentile per-packet one-way delay: 66.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.74 Mbit/s

95th percentile per-packet one-way delay: 66.012 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.06 Mbit/s

95th percentile per-packet one-way delay: 66.407 ms

Loss rate: 0.00%

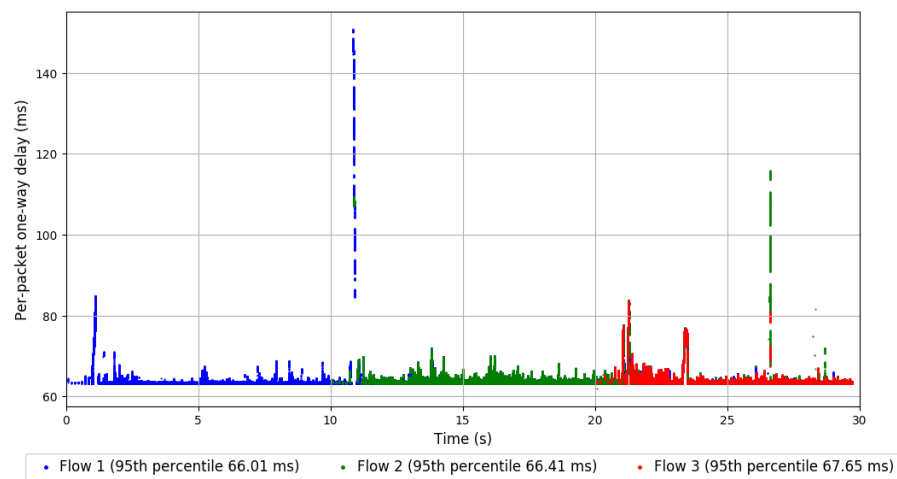
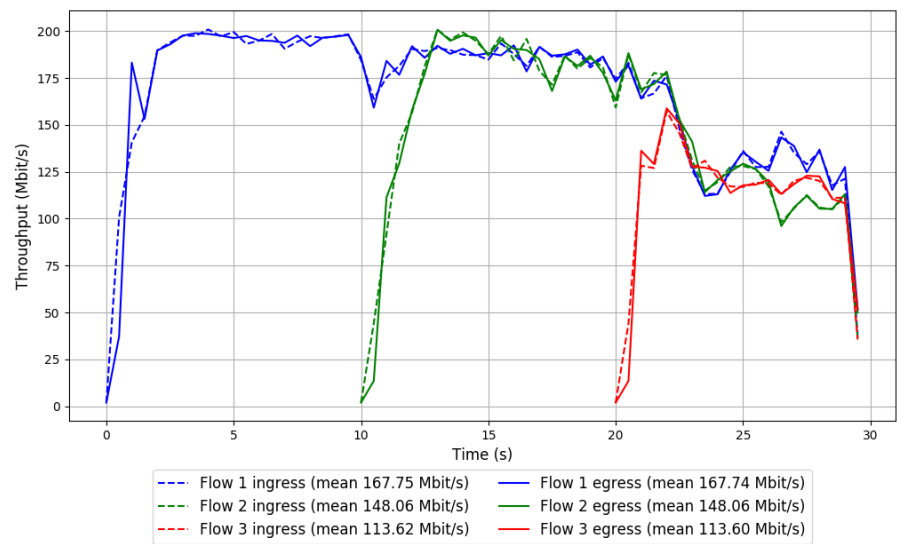
-- Flow 3:

Average throughput: 113.60 Mbit/s

95th percentile per-packet one-way delay: 67.652 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-22 05:27:50

End at: 2017-11-22 05:28:20

Below is generated by plot.py at 2017-11-22 08:29:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.28 Mbit/s

95th percentile per-packet one-way delay: 63.716 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 153.25 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 133.18 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.01%

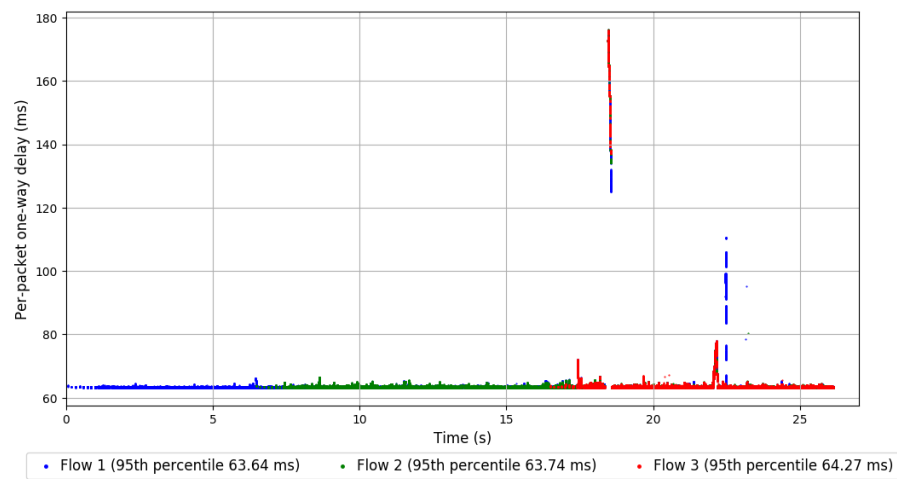
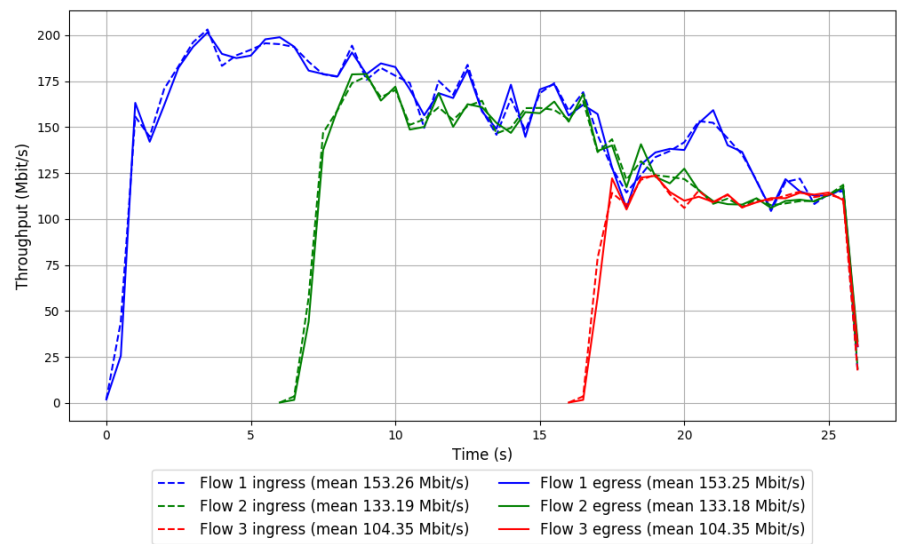
-- Flow 3:

Average throughput: 104.35 Mbit/s

95th percentile per-packet one-way delay: 64.272 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-22 05:40:03

End at: 2017-11-22 05:40:33

Below is generated by plot.py at 2017-11-22 08:29:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.60 Mbit/s

95th percentile per-packet one-way delay: 63.834 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 155.20 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.11 Mbit/s

95th percentile per-packet one-way delay: 63.797 ms

Loss rate: 0.01%

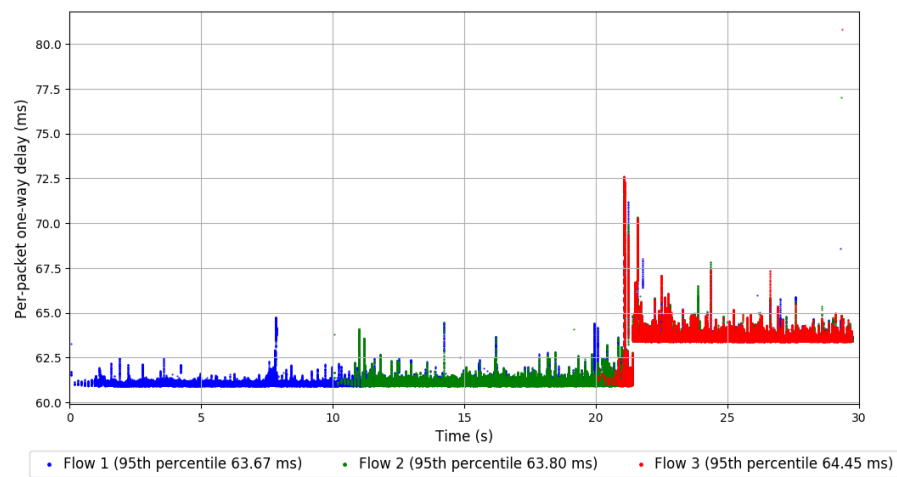
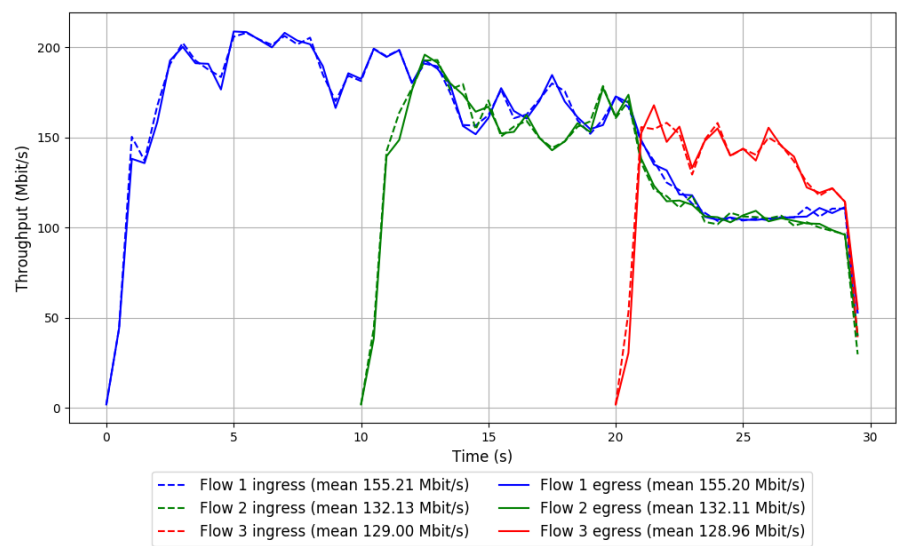
-- Flow 3:

Average throughput: 128.96 Mbit/s

95th percentile per-packet one-way delay: 64.448 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-22 05:52:14

End at: 2017-11-22 05:52:44

Below is generated by plot.py at 2017-11-22 08:31:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.27 Mbit/s

95th percentile per-packet one-way delay: 64.624 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 167.02 Mbit/s

95th percentile per-packet one-way delay: 64.371 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 141.03 Mbit/s

95th percentile per-packet one-way delay: 64.624 ms

Loss rate: 0.00%

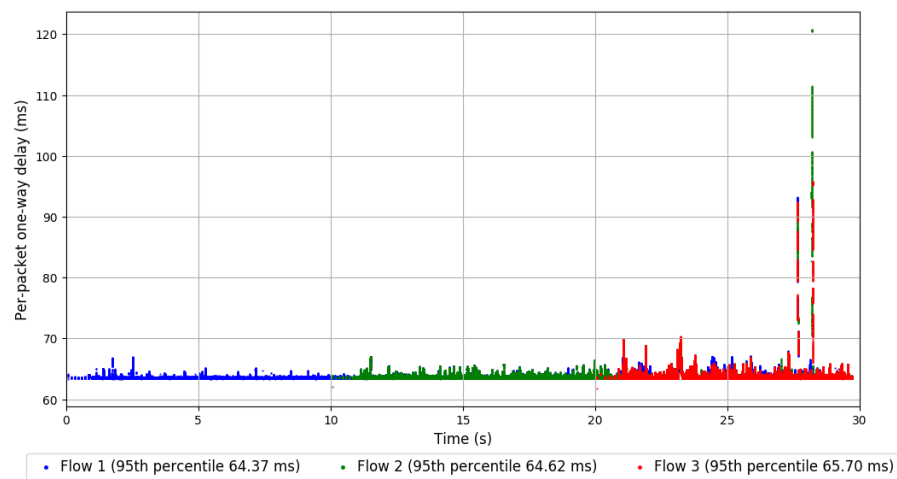
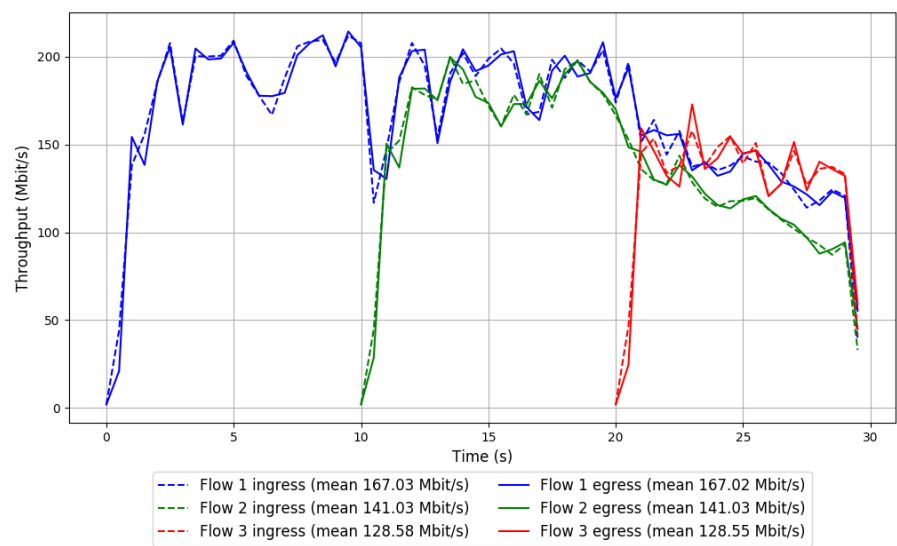
-- Flow 3:

Average throughput: 128.55 Mbit/s

95th percentile per-packet one-way delay: 65.699 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-22 06:04:21

End at: 2017-11-22 06:04:51

Below is generated by plot.py at 2017-11-22 08:31:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.68 Mbit/s

95th percentile per-packet one-way delay: 64.140 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 156.35 Mbit/s

95th percentile per-packet one-way delay: 63.886 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 128.01 Mbit/s

95th percentile per-packet one-way delay: 64.116 ms

Loss rate: 0.00%

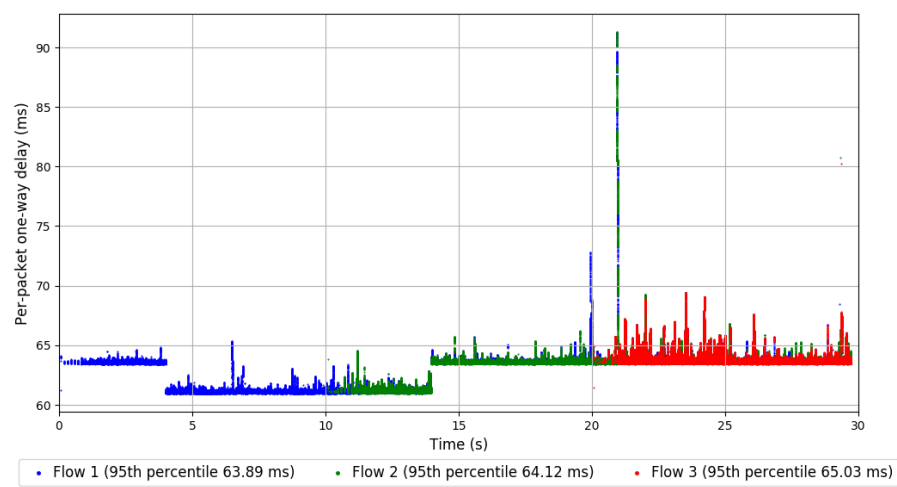
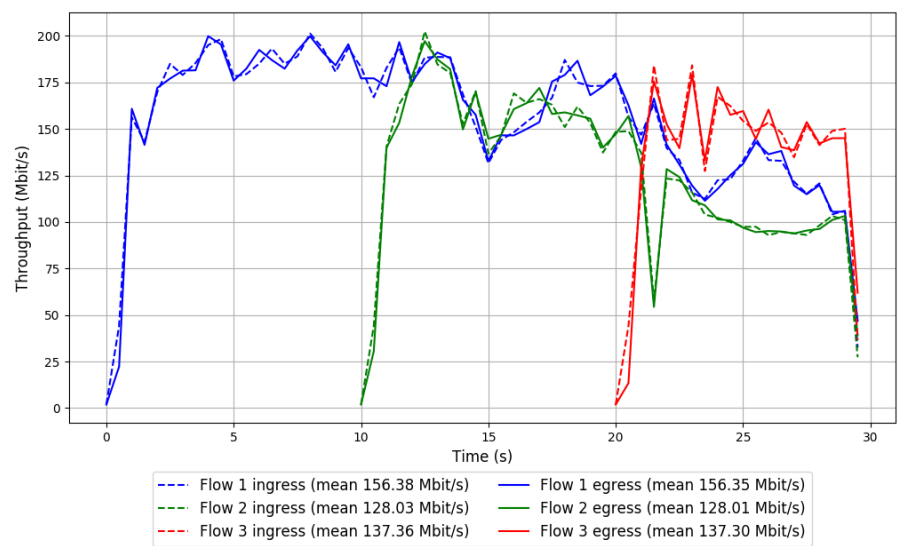
-- Flow 3:

Average throughput: 137.30 Mbit/s

95th percentile per-packet one-way delay: 65.035 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

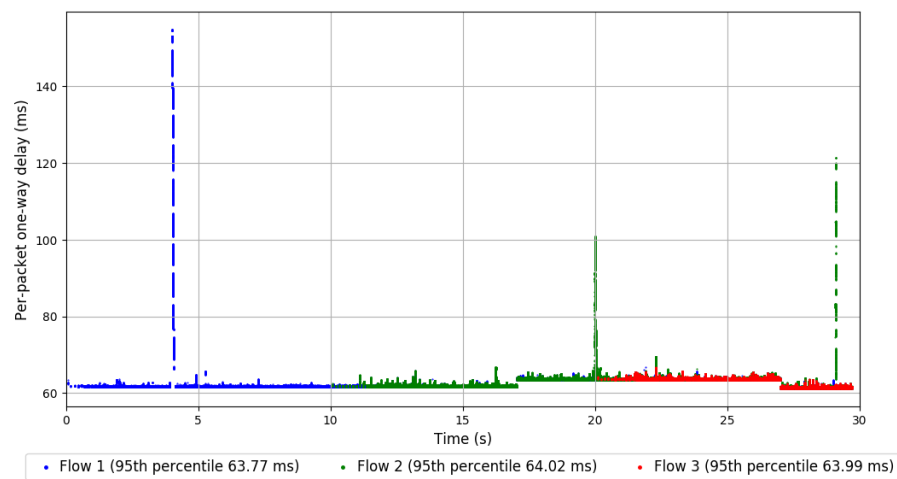
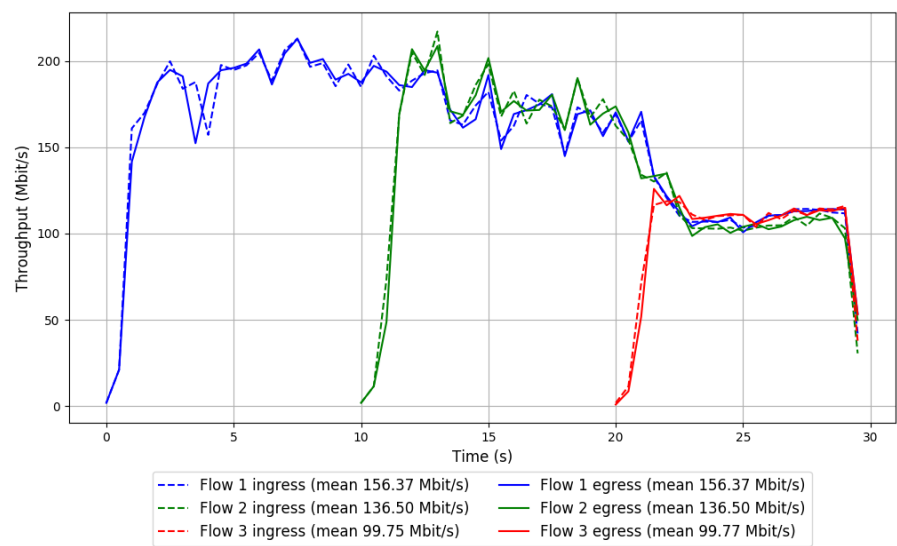


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-22 04:21:08
End at: 2017-11-22 04:21:38

# Below is generated by plot.py at 2017-11-22 08:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.17 Mbit/s
95th percentile per-packet one-way delay: 63.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.37 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.50 Mbit/s
95th percentile per-packet one-way delay: 64.015 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.77 Mbit/s
95th percentile per-packet one-way delay: 63.992 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link

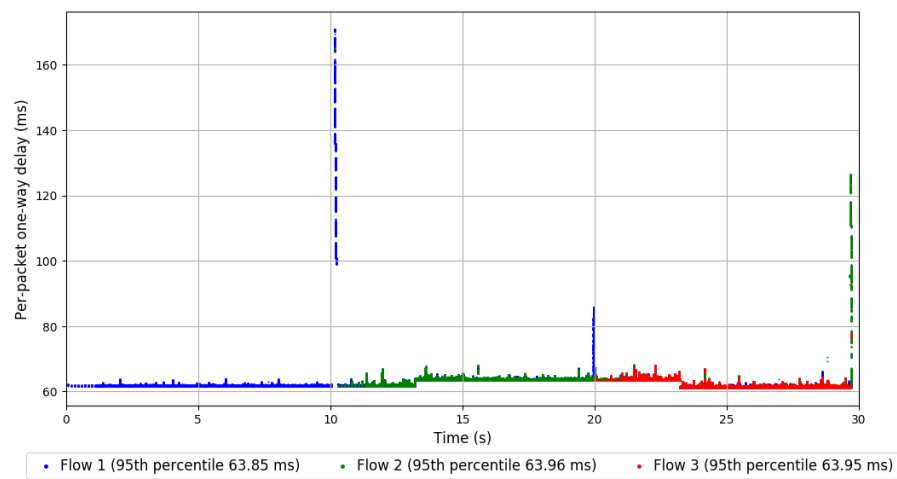
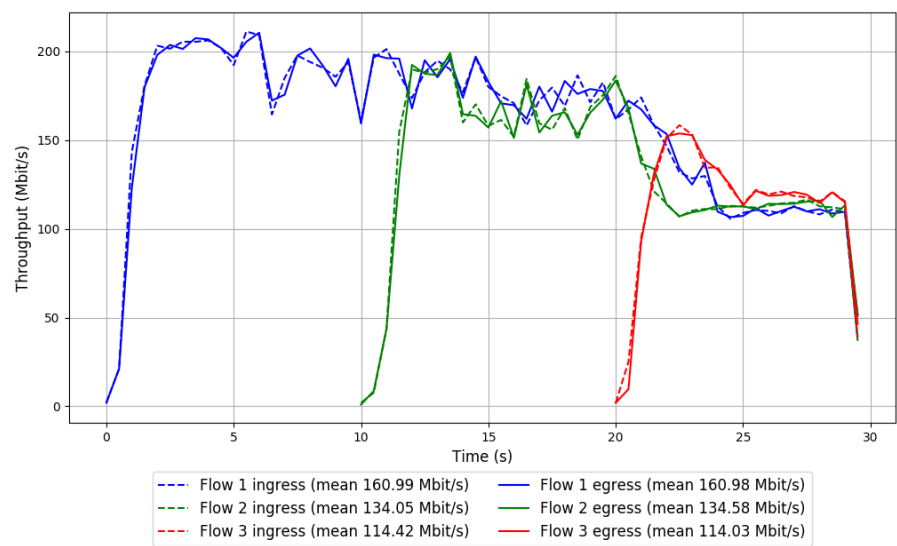


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-22 04:33:32
End at: 2017-11-22 04:34:02

# Below is generated by plot.py at 2017-11-22 08:33:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.87 Mbit/s
95th percentile per-packet one-way delay: 63.896 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 160.98 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 134.58 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 114.03 Mbit/s
95th percentile per-packet one-way delay: 63.948 ms
Loss rate: 0.32%
```

Run 2: Report of Indigo-calib — Data Link

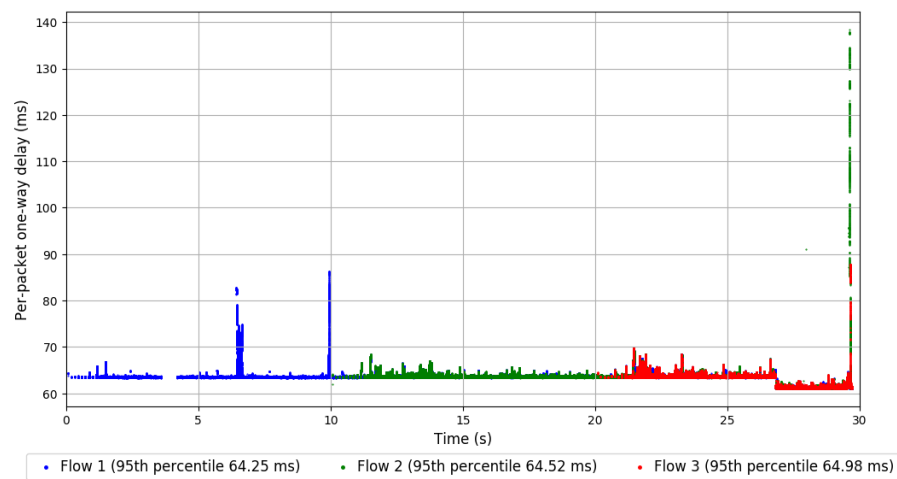
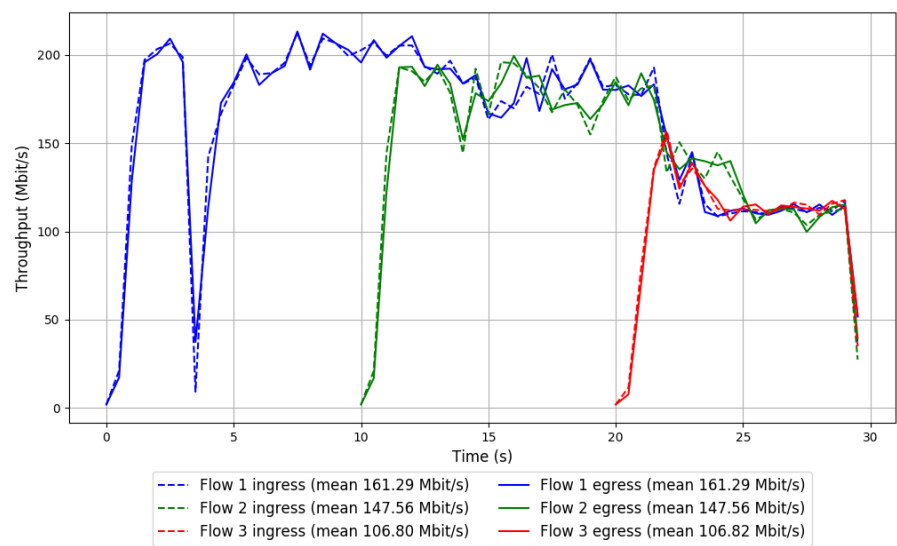


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-22 04:45:38
End at: 2017-11-22 04:46:08

# Below is generated by plot.py at 2017-11-22 08:33:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.72 Mbit/s
95th percentile per-packet one-way delay: 64.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.29 Mbit/s
95th percentile per-packet one-way delay: 64.253 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.56 Mbit/s
95th percentile per-packet one-way delay: 64.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 106.82 Mbit/s
95th percentile per-packet one-way delay: 64.982 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-22 04:57:59

End at: 2017-11-22 04:58:29

Below is generated by plot.py at 2017-11-22 08:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.28 Mbit/s

95th percentile per-packet one-way delay: 64.044 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.19 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.61 Mbit/s

95th percentile per-packet one-way delay: 64.155 ms

Loss rate: 0.00%

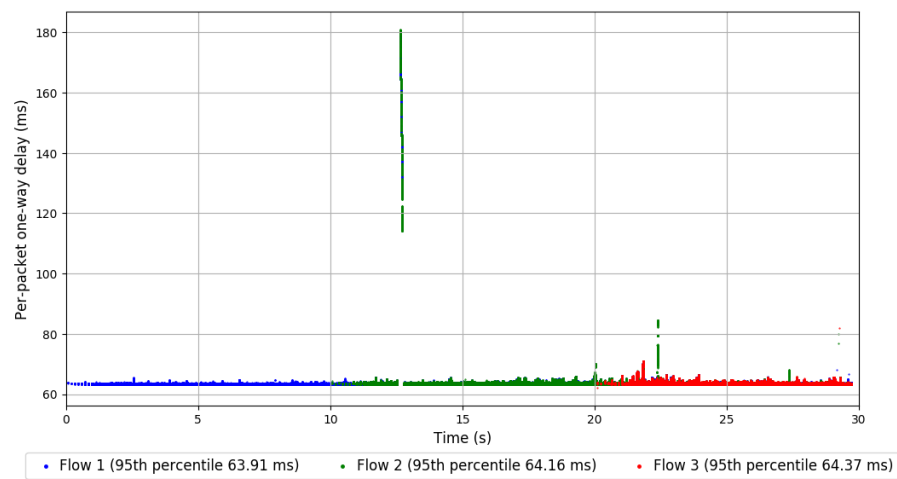
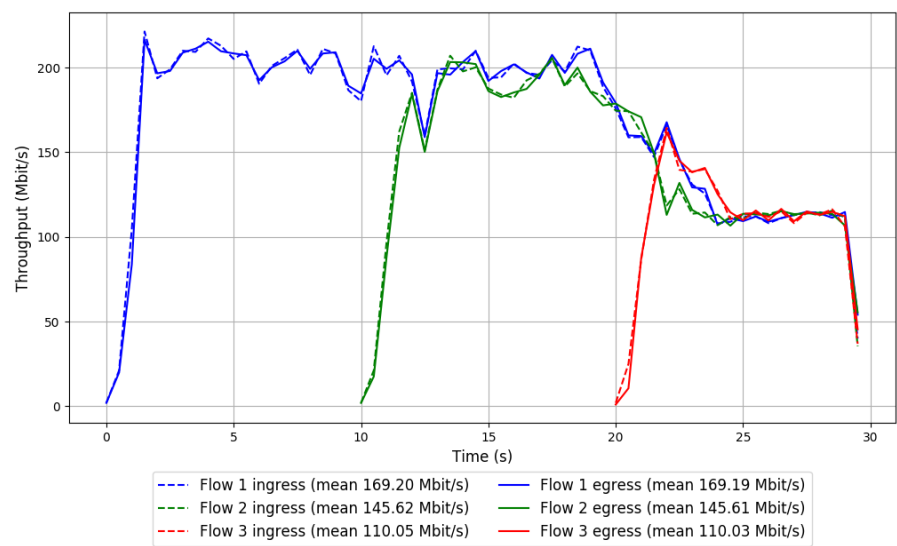
-- Flow 3:

Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 64.368 ms

Loss rate: 0.01%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-22 05:10:24

End at: 2017-11-22 05:10:54

Below is generated by plot.py at 2017-11-22 08:34:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.54 Mbit/s

95th percentile per-packet one-way delay: 63.415 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 63.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.71 Mbit/s

95th percentile per-packet one-way delay: 61.796 ms

Loss rate: 0.00%

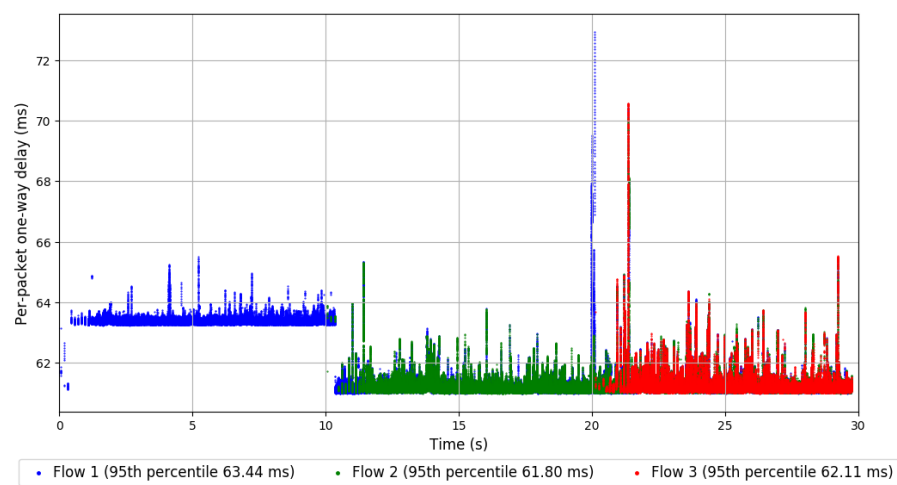
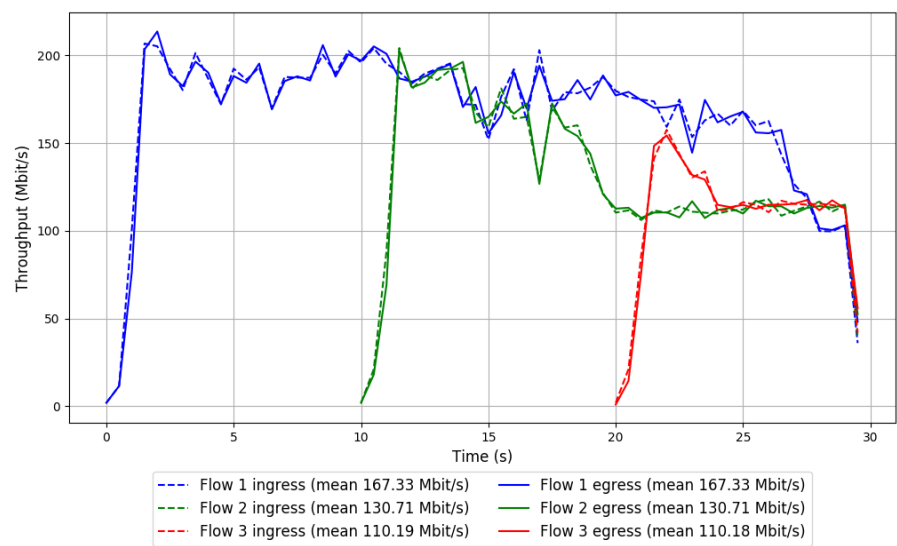
-- Flow 3:

Average throughput: 110.18 Mbit/s

95th percentile per-packet one-way delay: 62.114 ms

Loss rate: 0.01%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-22 05:22:42

End at: 2017-11-22 05:23:12

Below is generated by plot.py at 2017-11-22 08:34:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.85 Mbit/s

95th percentile per-packet one-way delay: 63.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 146.03 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 0.00%

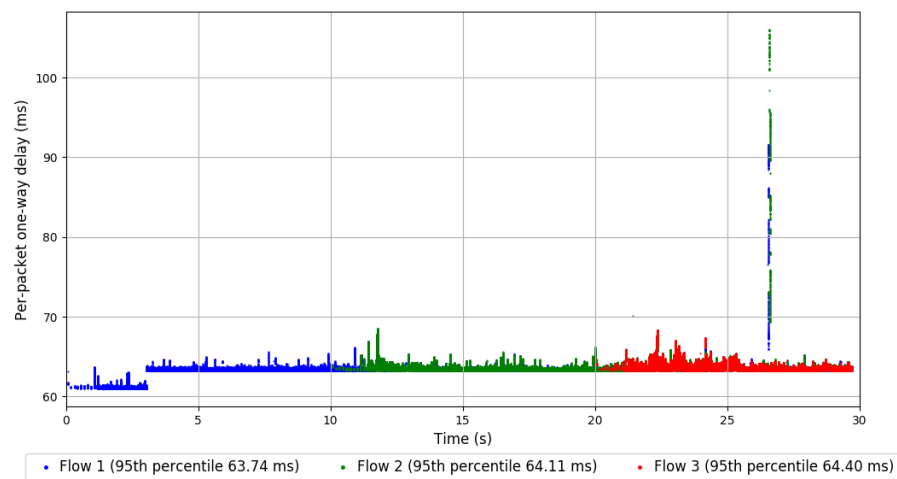
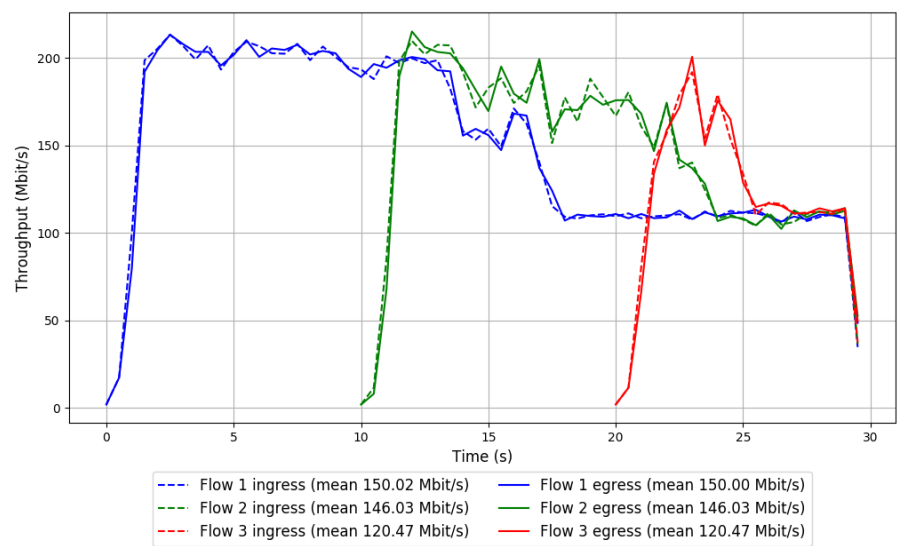
-- Flow 3:

Average throughput: 120.47 Mbit/s

95th percentile per-packet one-way delay: 64.396 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

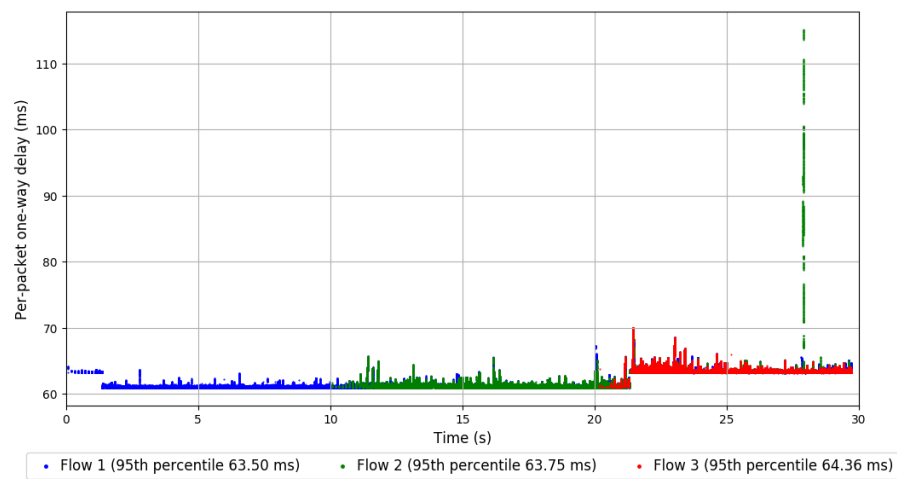
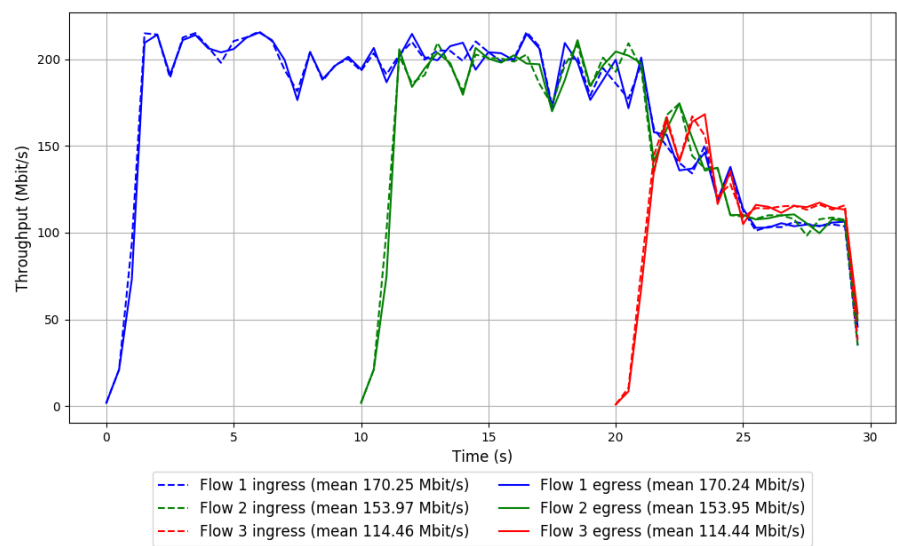


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-22 05:34:53
End at: 2017-11-22 05:35:23

# Below is generated by plot.py at 2017-11-22 08:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.89 Mbit/s
95th percentile per-packet one-way delay: 63.720 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.24 Mbit/s
95th percentile per-packet one-way delay: 63.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 153.95 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.44 Mbit/s
95th percentile per-packet one-way delay: 64.364 ms
Loss rate: 0.00%
```


Run 7: Report of Indigo-calib — Data Link

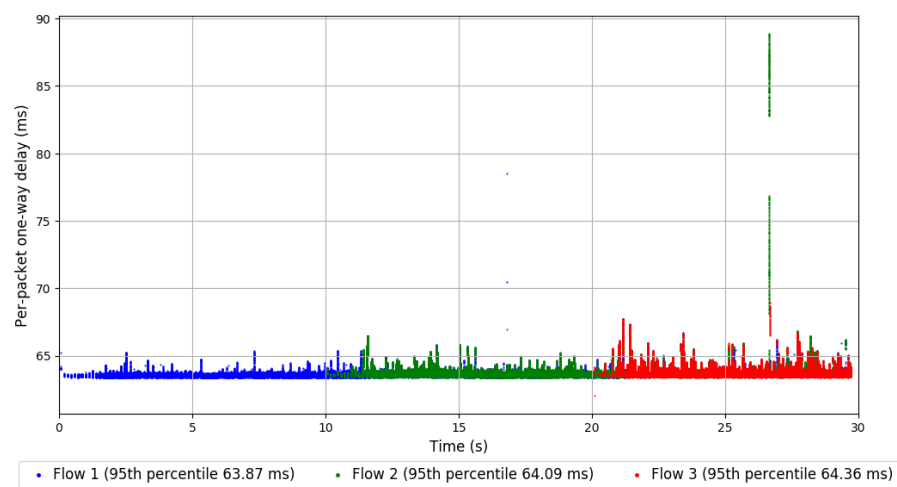
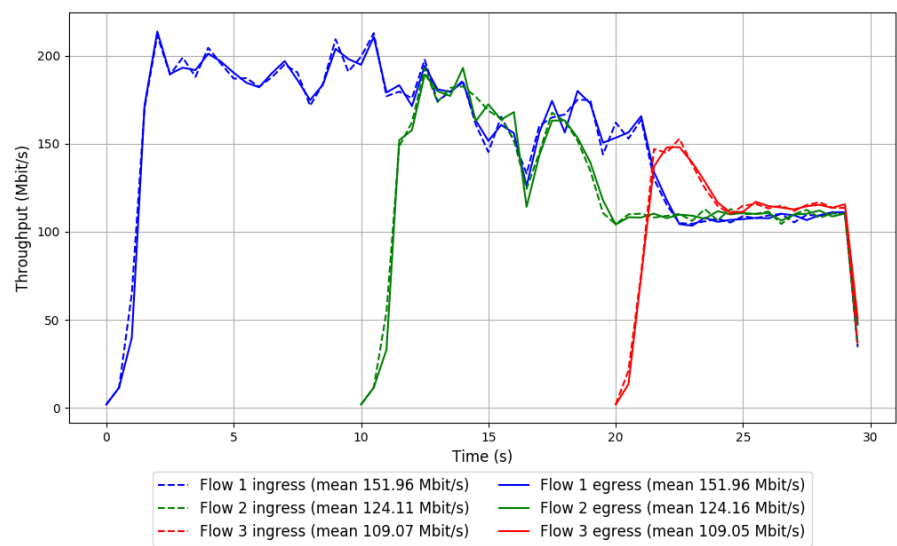


```
Run 8: Statistics of Indigo-calib

Start at: 2017-11-22 05:47:08
End at: 2017-11-22 05:47:38

# Below is generated by plot.py at 2017-11-22 08:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.60 Mbit/s
95th percentile per-packet one-way delay: 64.003 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 151.96 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 124.16 Mbit/s
95th percentile per-packet one-way delay: 64.089 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 109.05 Mbit/s
95th percentile per-packet one-way delay: 64.365 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-22 05:59:10

End at: 2017-11-22 05:59:40

Below is generated by plot.py at 2017-11-22 08:35:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.42 Mbit/s

95th percentile per-packet one-way delay: 64.037 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 158.09 Mbit/s

95th percentile per-packet one-way delay: 63.956 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 144.72 Mbit/s

95th percentile per-packet one-way delay: 64.194 ms

Loss rate: 0.01%

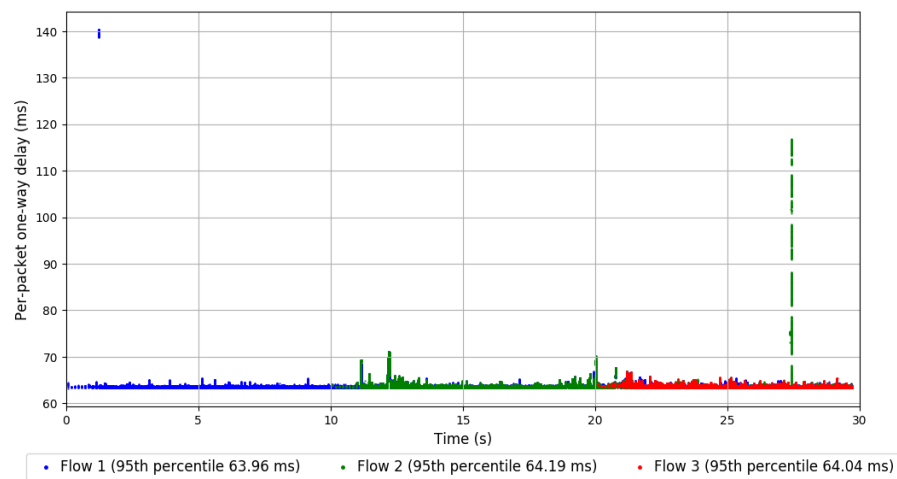
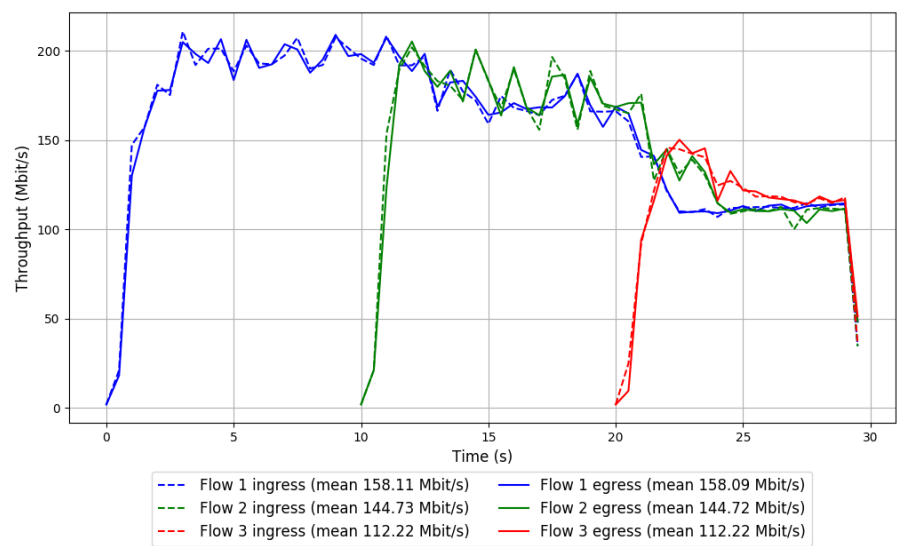
-- Flow 3:

Average throughput: 112.22 Mbit/s

95th percentile per-packet one-way delay: 64.041 ms

Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-22 06:11:27

End at: 2017-11-22 06:11:57

Below is generated by plot.py at 2017-11-22 08:35:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.43 Mbit/s

95th percentile per-packet one-way delay: 63.750 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 150.08 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.08 Mbit/s

95th percentile per-packet one-way delay: 63.830 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 114.50 Mbit/s

95th percentile per-packet one-way delay: 63.719 ms

Loss rate: 0.01%

Run 10: Report of Indigo-calib — Data Link

