

Pantheon Report

Generated at 2017-12-12 04:26:52 (UTC).

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

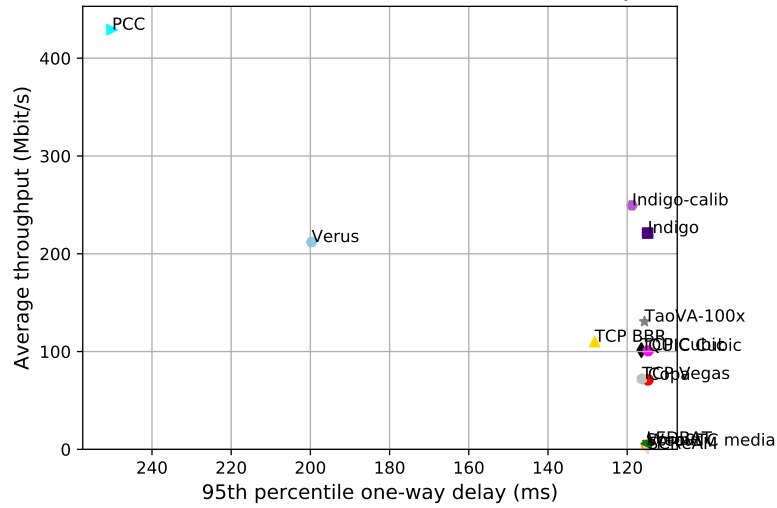
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

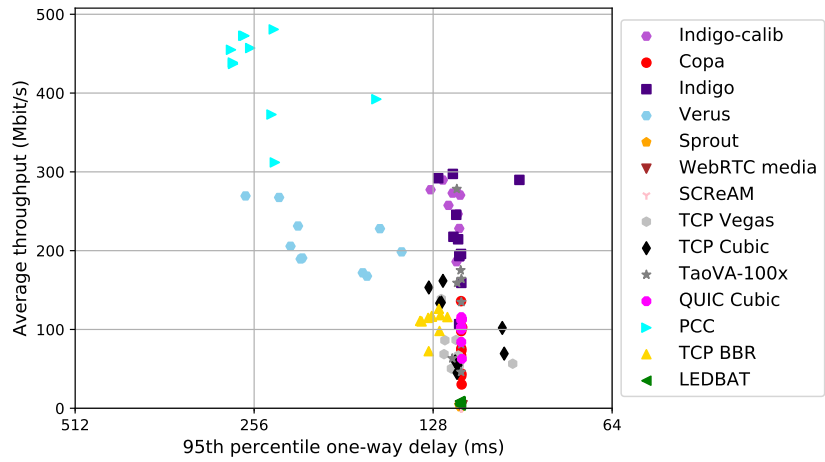
Git summary:

```
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 @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



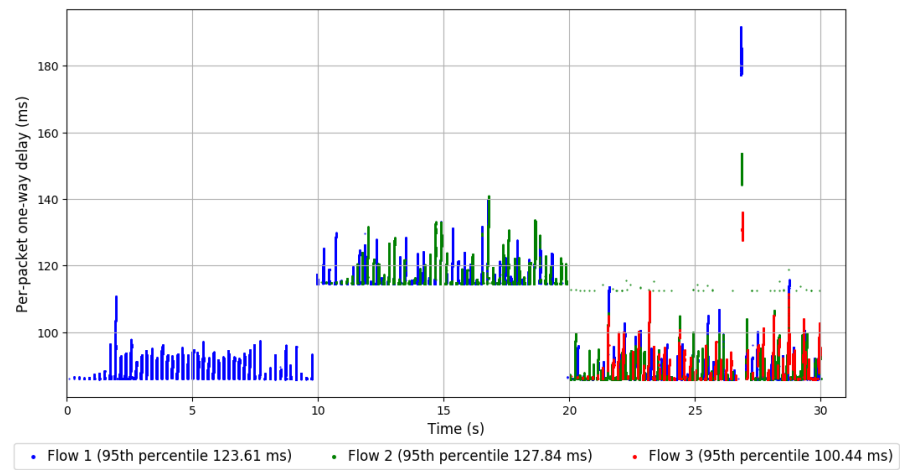
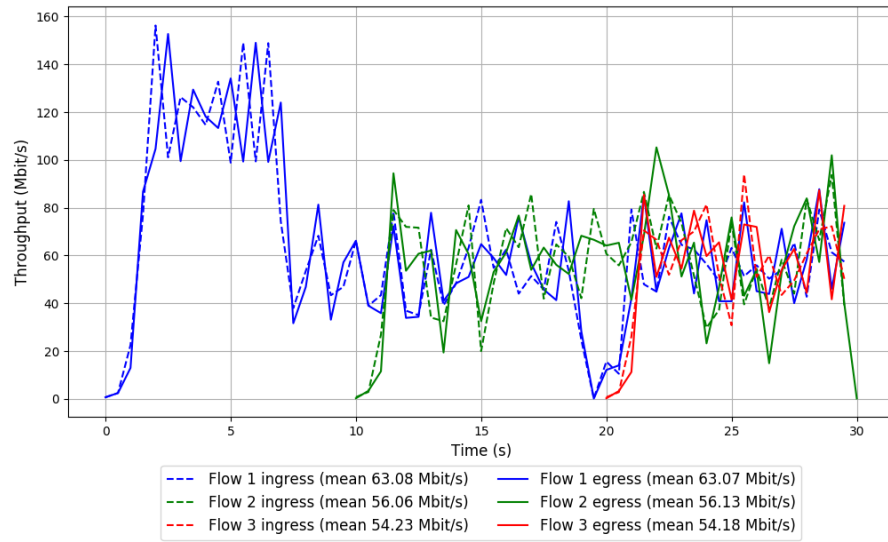
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	47.29	53.65	81.98	192.79	128.76	128.96	0.01	0.00	0.06
TCP Cubic	9	47.65	56.59	52.23	694.27	115.86	118.16	0.02	0.02	0.15
LEDBAT	10	3.65	2.49	2.09	115.26	115.02	108.78	0.07	0.14	0.00
PCC	10	369.00	72.76	35.52	250.13	245.19	229.83	2.36	1.57	1.57
QUIC Cubic	10	54.85	53.96	31.38	113.61	111.52	114.35	0.01	0.00	0.01
SCReAM	8	0.22	0.22	0.22	114.62	114.12	114.07	0.00	0.00	0.00
WebRTC media	10	2.03	1.32	0.50	114.57	111.31	114.70	0.01	0.00	0.00
Sprout	10	2.25	1.96	1.41	115.33	114.86	114.73	0.01	0.00	0.00
TaoVA-100x	10	85.48	49.22	58.52	115.54	115.30	119.52	0.01	0.00	0.02
TCP Vegas	10	31.97	42.82	35.05	117.47	116.31	113.70	0.00	0.01	0.00
Verus	10	137.19	87.99	48.77	203.70	213.90	187.27	0.57	1.16	0.89
Copa	10	36.26	32.29	49.83	114.55	114.69	111.61	0.00	0.00	0.00
Indigo	10	115.02	100.88	122.63	113.48	112.25	120.80	0.01	0.00	0.01
Indigo-calib	10	129.01	122.11	123.27	117.31	118.89	121.03	0.01	0.01	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-12 00:48:38
End at: 2017-12-12 00:49:08

# Below is generated by plot.py at 2017-12-12 03:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.16 Mbit/s
95th percentile per-packet one-way delay: 124.426 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 123.608 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.13 Mbit/s
95th percentile per-packet one-way delay: 127.844 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 54.18 Mbit/s
95th percentile per-packet one-way delay: 100.443 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

End at: 2017-12-12 01:01:50

Below is generated by plot.py at 2017-12-12 03:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.21 Mbit/s

95th percentile per-packet one-way delay: 128.599 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 127.095 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 127.316 ms

Loss rate: 0.00%

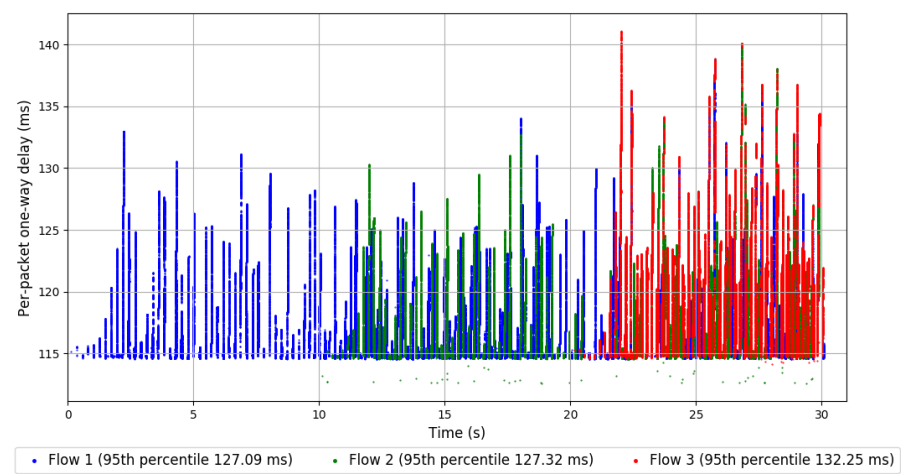
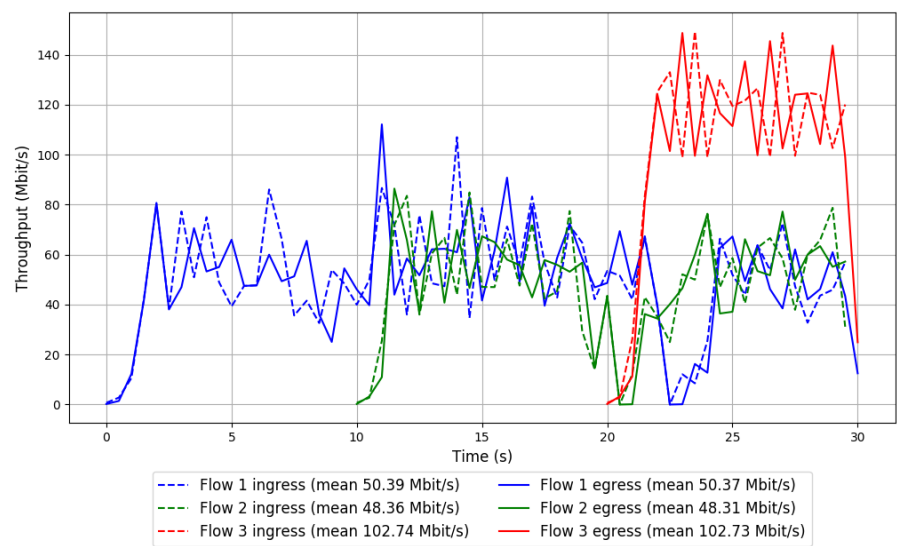
-- Flow 3:

Average throughput: 102.73 Mbit/s

95th percentile per-packet one-way delay: 132.254 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2017-12-12 01:14:42

Below is generated by plot.py at 2017-12-12 03:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 130.210 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 796.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 129.343 ms

Loss rate: 0.00%

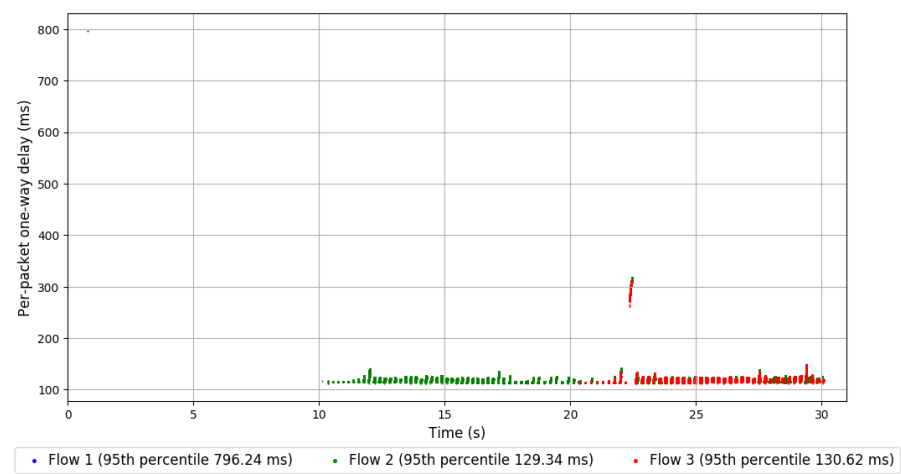
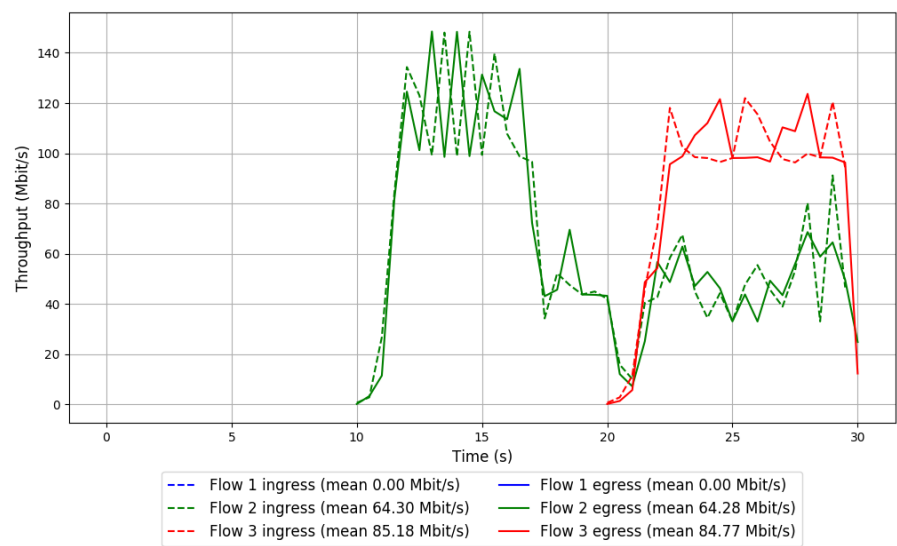
-- Flow 3:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 130.618 ms

Loss rate: 0.46%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-12 01:27:31

End at: 2017-12-12 01:28:01

Below is generated by plot.py at 2017-12-12 03:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.71 Mbit/s

95th percentile per-packet one-way delay: 130.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 128.903 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.77 Mbit/s

95th percentile per-packet one-way delay: 129.410 ms

Loss rate: 0.00%

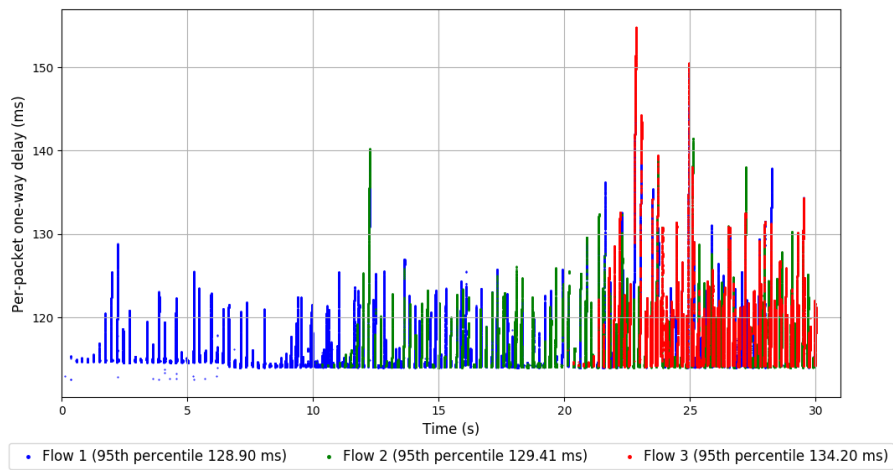
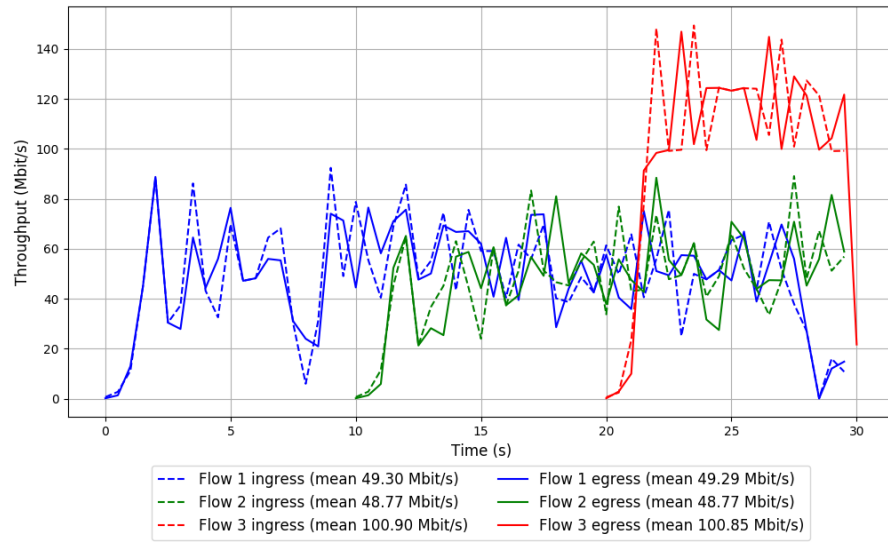
-- Flow 3:

Average throughput: 100.85 Mbit/s

95th percentile per-packet one-way delay: 134.199 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-12 01:40:35

End at: 2017-12-12 01:41:05

Below is generated by plot.py at 2017-12-12 03:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.15 Mbit/s

95th percentile per-packet one-way delay: 124.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 124.294 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.80 Mbit/s

95th percentile per-packet one-way delay: 123.181 ms

Loss rate: 0.00%

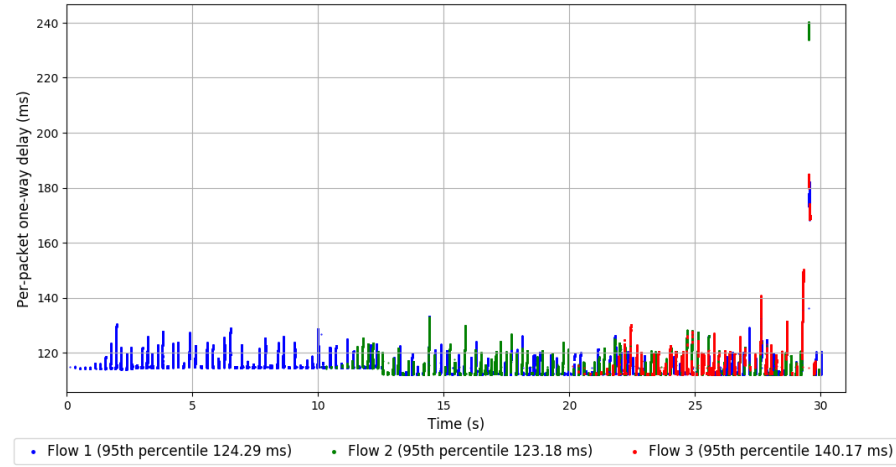
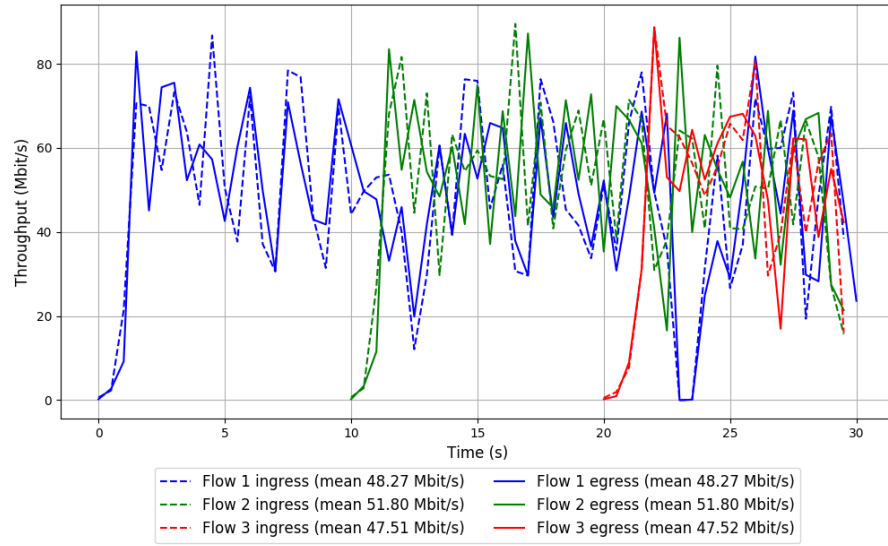
-- Flow 3:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 140.168 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-12 01:53:22

End at: 2017-12-12 01:53:52

Below is generated by plot.py at 2017-12-12 03:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.15 Mbit/s

95th percentile per-packet one-way delay: 128.726 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.35 Mbit/s

95th percentile per-packet one-way delay: 127.934 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 129.686 ms

Loss rate: 0.00%

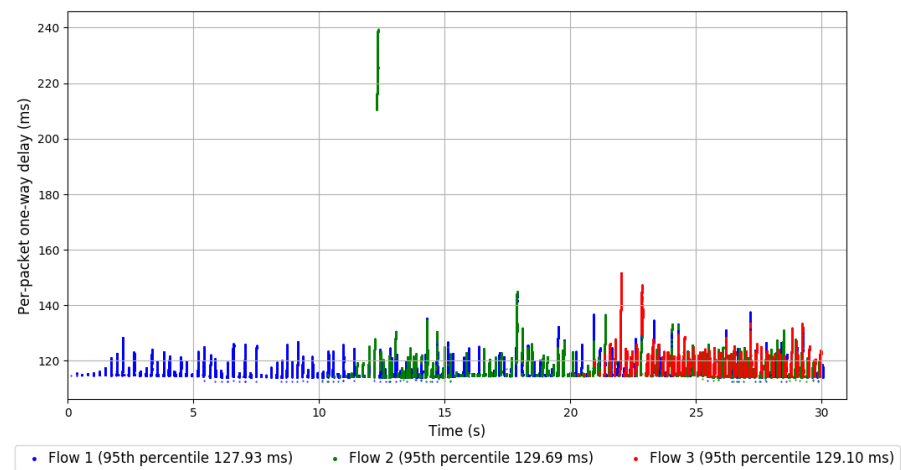
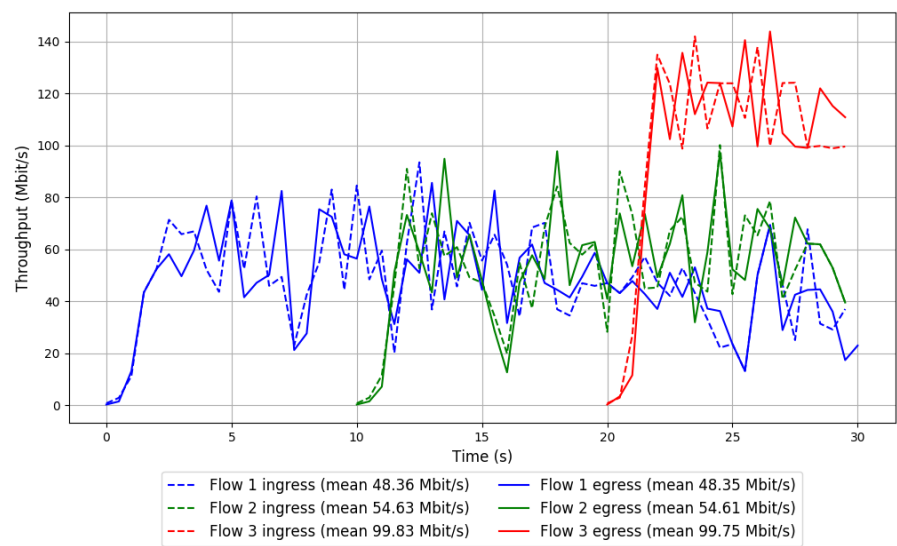
-- Flow 3:

Average throughput: 99.75 Mbit/s

95th percentile per-packet one-way delay: 129.096 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-12 02:06:12

End at: 2017-12-12 02:06:42

Below is generated by plot.py at 2017-12-12 03:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.27 Mbit/s

95th percentile per-packet one-way delay: 133.829 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 124.730 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 137.086 ms

Loss rate: 0.00%

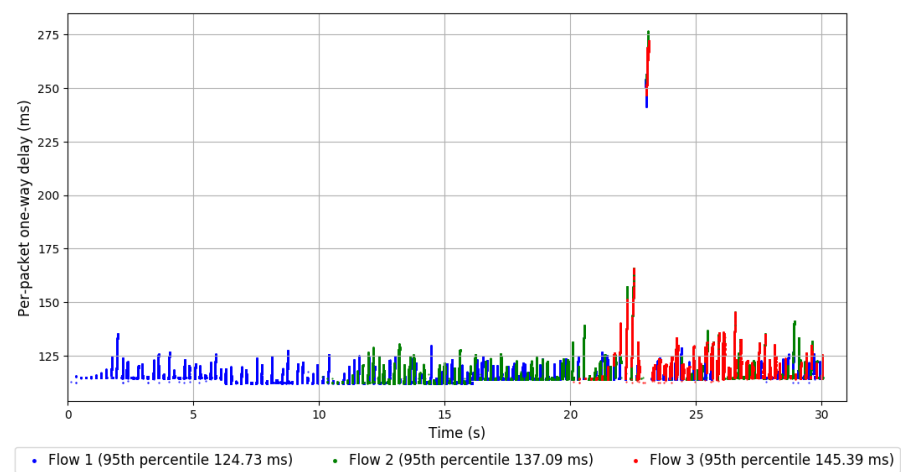
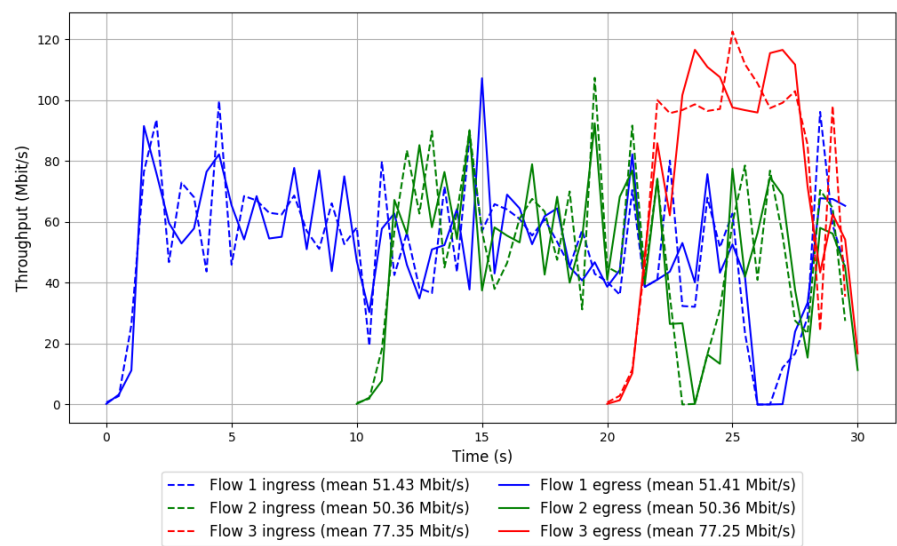
-- Flow 3:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 145.392 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-12-12 03:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.87 Mbit/s

95th percentile per-packet one-way delay: 134.609 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 130.305 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 137.418 ms

Loss rate: 0.00%

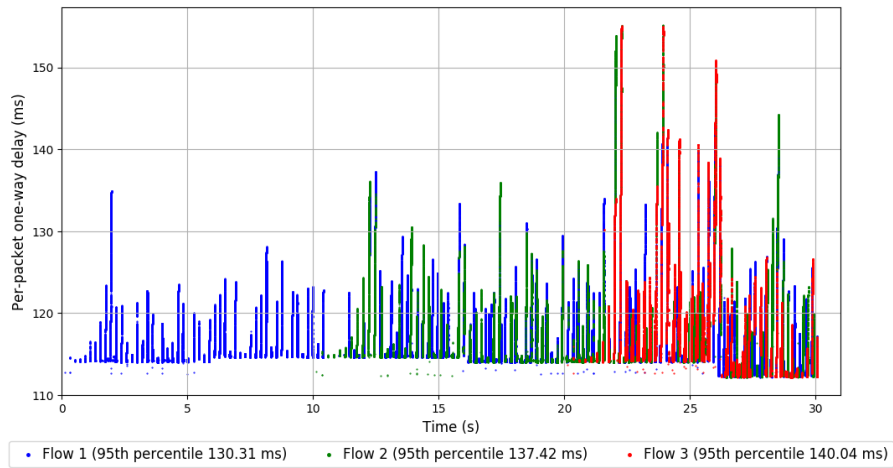
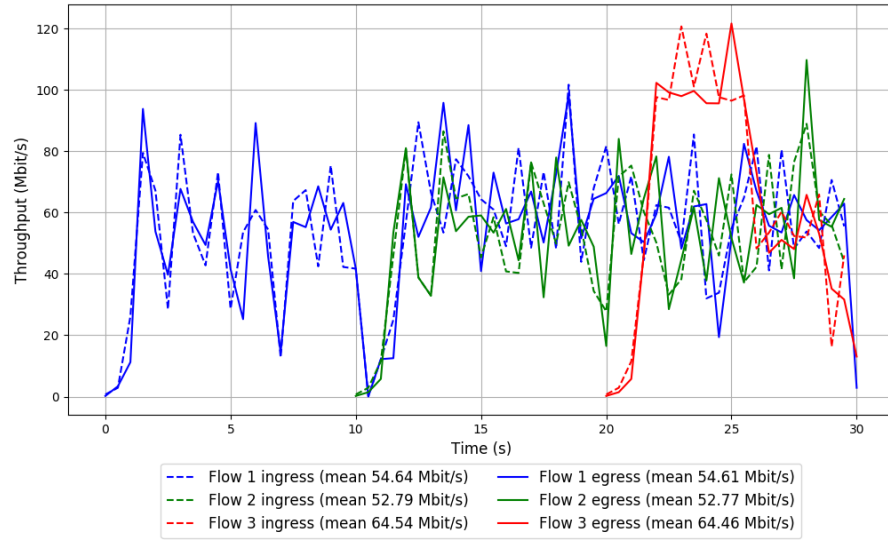
-- Flow 3:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 140.044 ms

Loss rate: 0.12%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-12 02:32:09

End at: 2017-12-12 02:32:39

Below is generated by plot.py at 2017-12-12 03:47:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.33 Mbit/s

95th percentile per-packet one-way delay: 125.178 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 124.781 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 122.230 ms

Loss rate: 0.00%

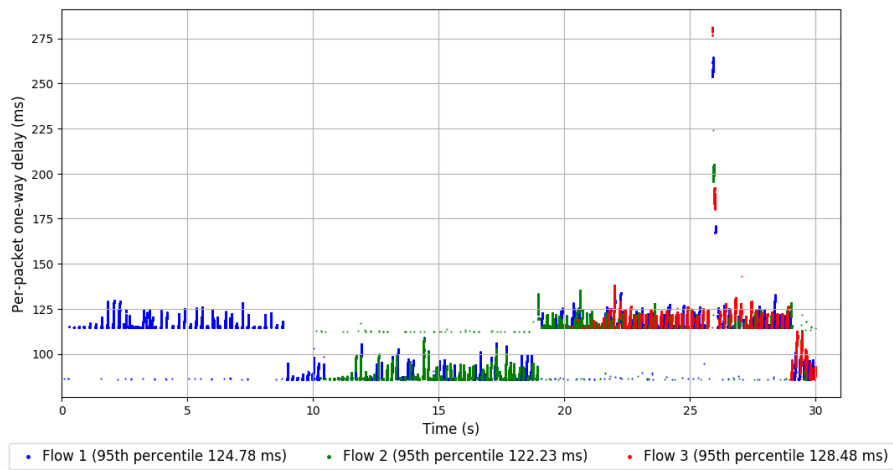
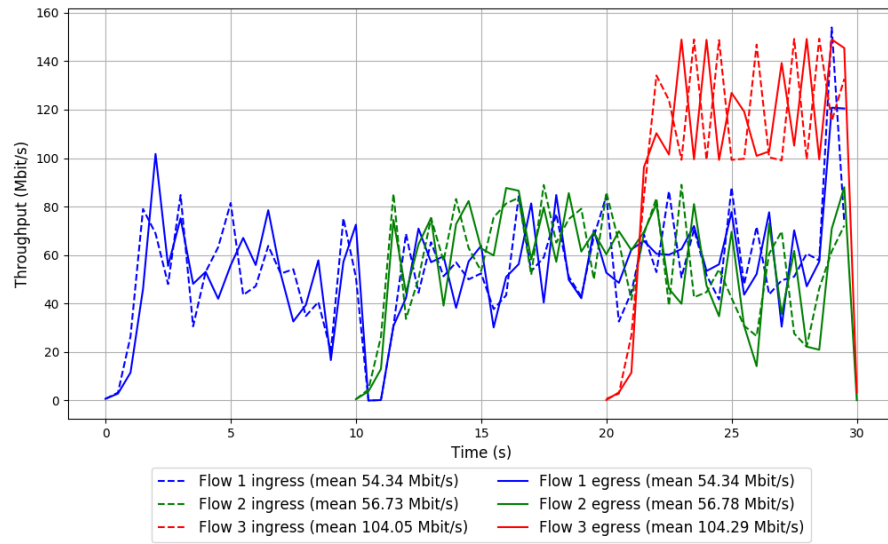
-- Flow 3:

Average throughput: 104.29 Mbit/s

95th percentile per-packet one-way delay: 128.478 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-12 02:44:47

End at: 2017-12-12 02:45:17

Below is generated by plot.py at 2017-12-12 03:47:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.73 Mbit/s

95th percentile per-packet one-way delay: 121.106 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 119.995 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.70 Mbit/s

95th percentile per-packet one-way delay: 124.069 ms

Loss rate: 0.00%

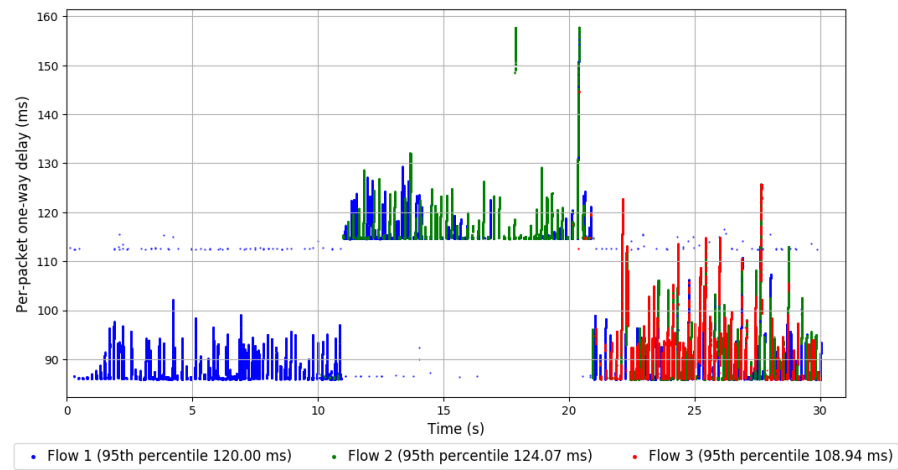
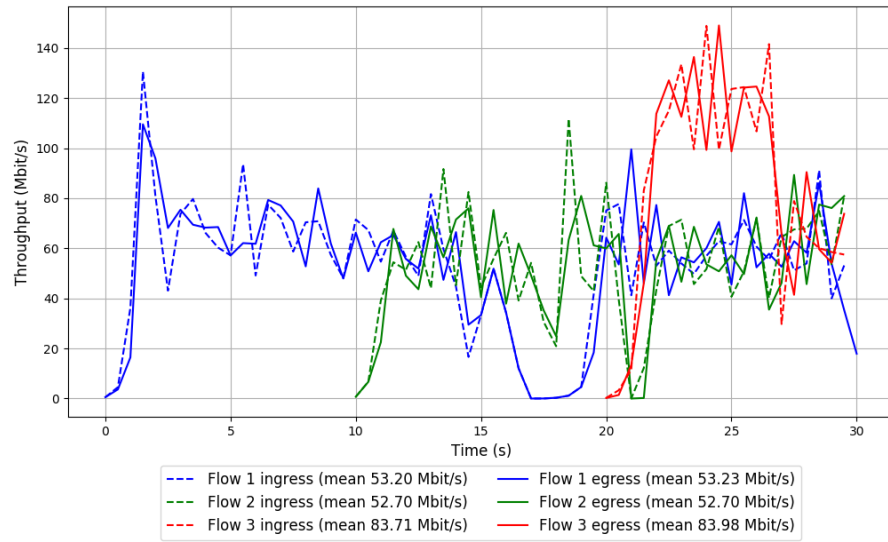
-- Flow 3:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 108.945 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-12 00:45:37

End at: 2017-12-12 00:46:07

Below is generated by plot.py at 2017-12-12 03:47:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.36 Mbit/s

95th percentile per-packet one-way delay: 97.193 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 114.840 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 94.349 ms

Loss rate: 0.06%

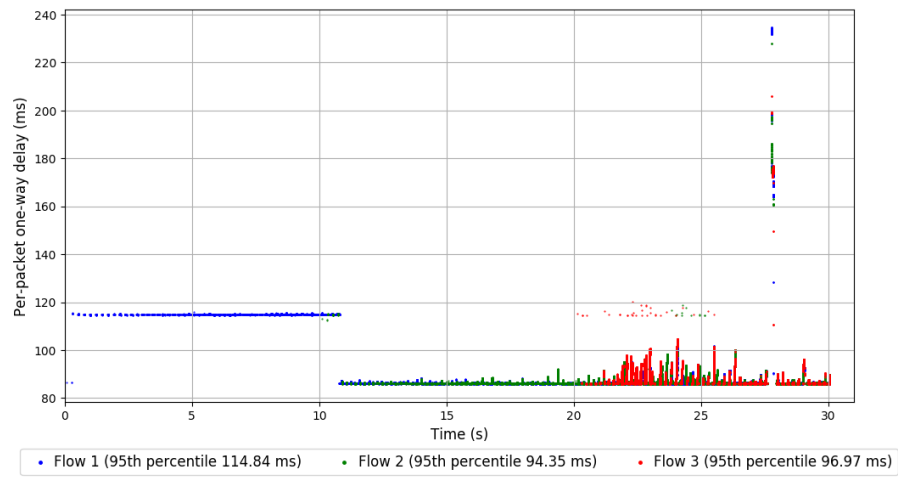
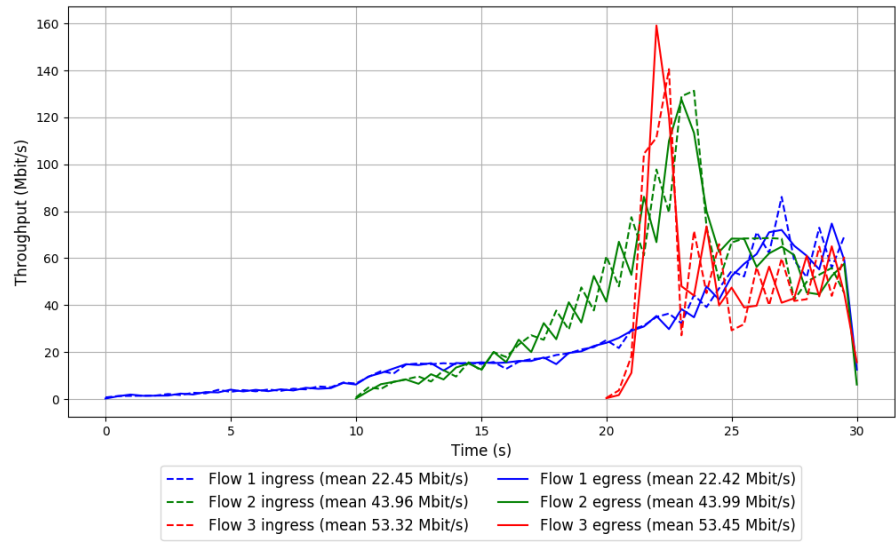
-- Flow 3:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 96.974 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-12 00:58:29

End at: 2017-12-12 00:58:59

Below is generated by plot.py at 2017-12-12 03:47:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.43 Mbit/s

95th percentile per-packet one-way delay: 117.487 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 19.67 Mbit/s

95th percentile per-packet one-way delay: 116.188 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 58.13 Mbit/s

95th percentile per-packet one-way delay: 118.243 ms

Loss rate: 0.00%

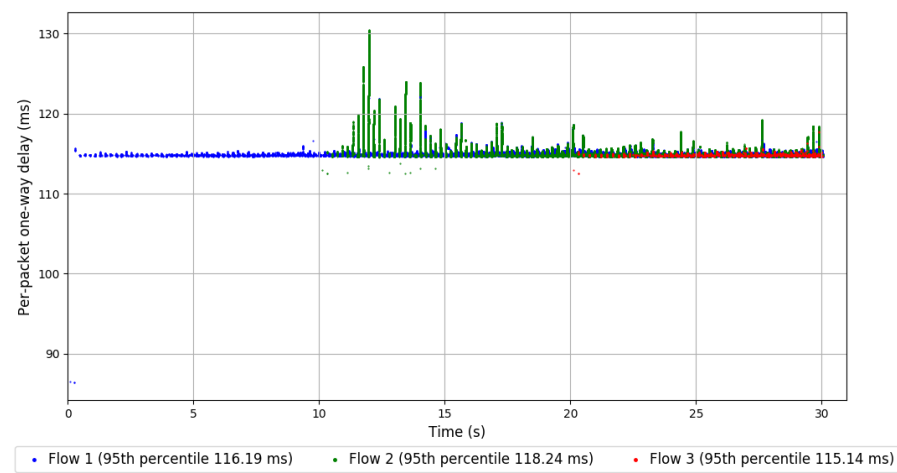
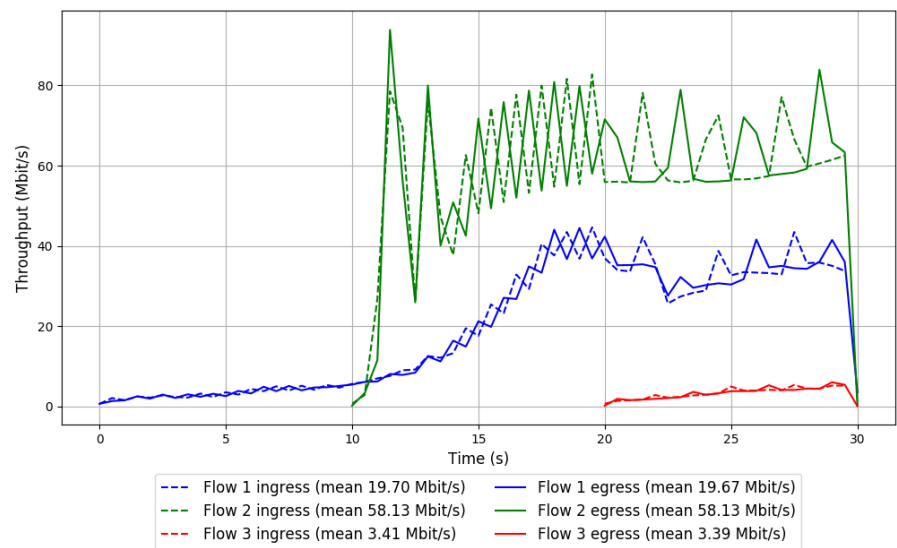
-- Flow 3:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 115.143 ms

Loss rate: 0.85%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-12 01:10:58

End at: 2017-12-12 01:11:28

Below is generated by plot.py at 2017-12-12 03:47:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.91 Mbit/s

95th percentile per-packet one-way delay: 97.922 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.31 Mbit/s

95th percentile per-packet one-way delay: 97.627 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 96.001 ms

Loss rate: 0.00%

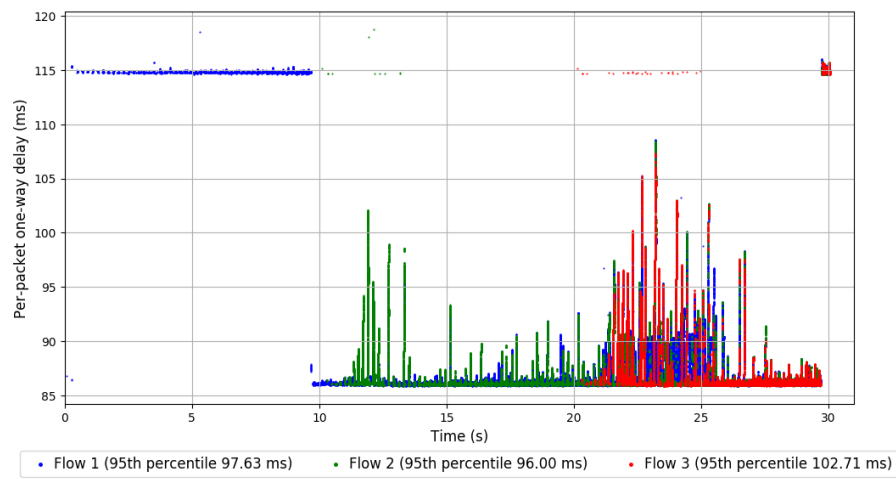
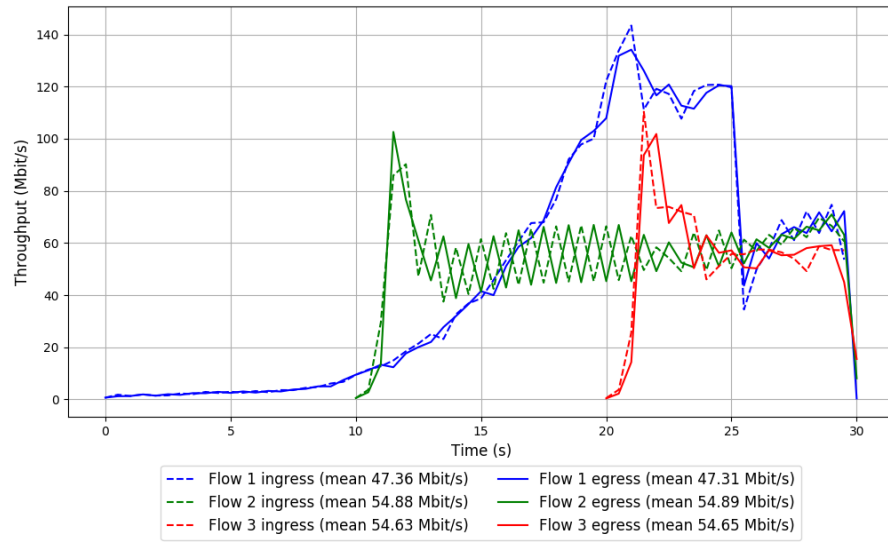
-- Flow 3:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 102.711 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-12 01:24:27

End at: 2017-12-12 01:24:57

Below is generated by plot.py at 2017-12-12 03:48:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.08 Mbit/s

95th percentile per-packet one-way delay: 123.972 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 59.96 Mbit/s

95th percentile per-packet one-way delay: 121.174 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 123.154 ms

Loss rate: 0.02%

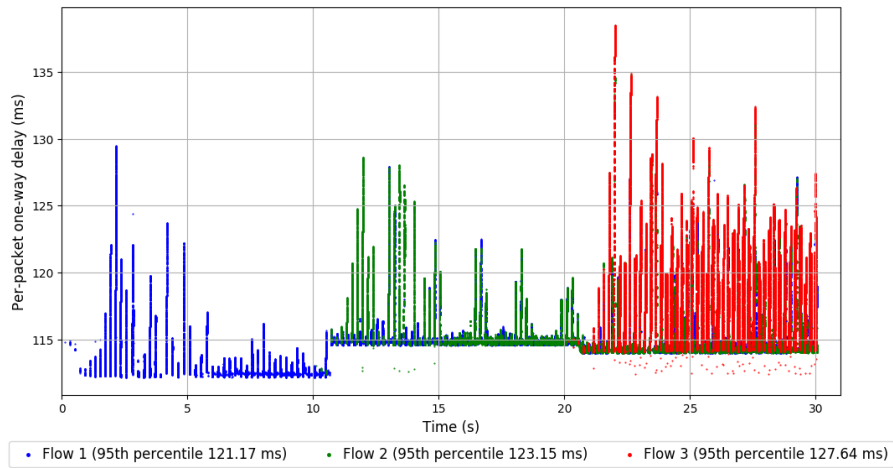
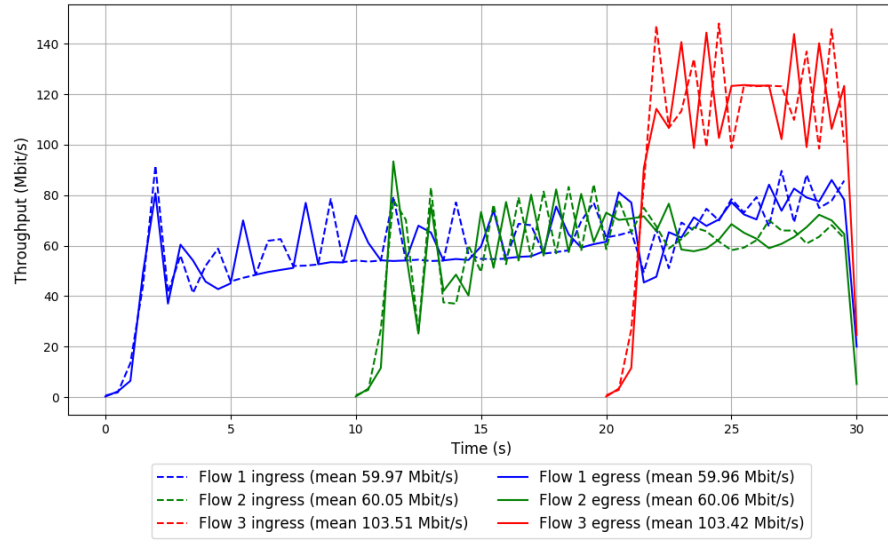
-- Flow 3:

Average throughput: 103.42 Mbit/s

95th percentile per-packet one-way delay: 127.636 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-12 01:37:32

End at: 2017-12-12 01:38:02

Below is generated by plot.py at 2017-12-12 03:48:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.28 Mbit/s

95th percentile per-packet one-way delay: 130.147 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 72.87 Mbit/s

95th percentile per-packet one-way delay: 128.117 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 129.400 ms

Loss rate: 0.01%

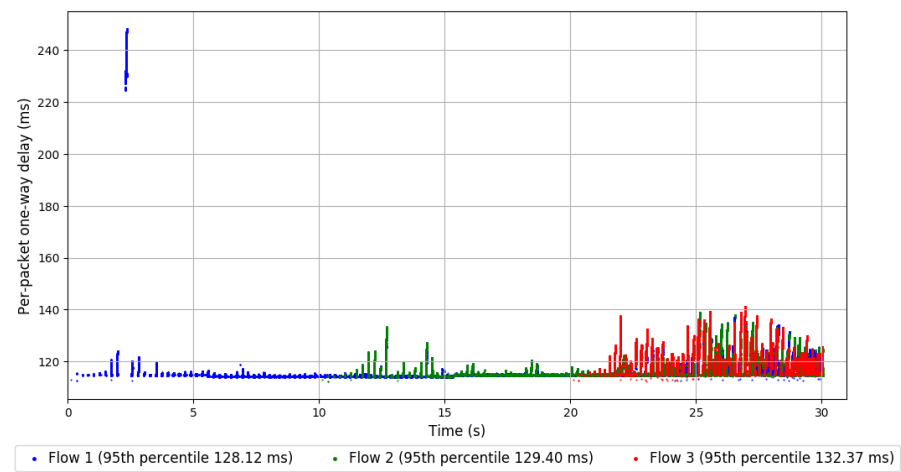
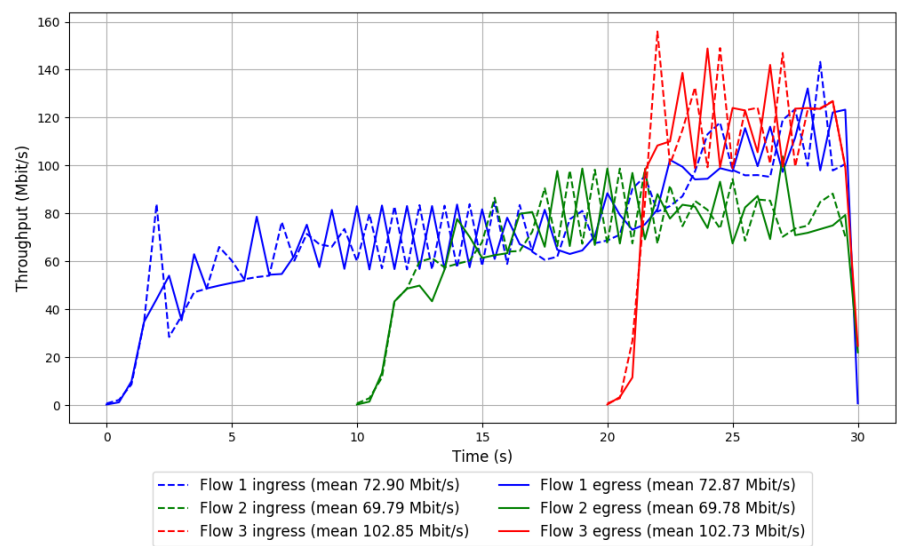
-- Flow 3:

Average throughput: 102.73 Mbit/s

95th percentile per-packet one-way delay: 132.368 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-12 01:50:21

End at: 2017-12-12 01:50:51

Below is generated by plot.py at 2017-12-12 03:48:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.86 Mbit/s

95th percentile per-packet one-way delay: 116.709 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 5308.668 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.75 Mbit/s

95th percentile per-packet one-way delay: 116.739 ms

Loss rate: 0.00%

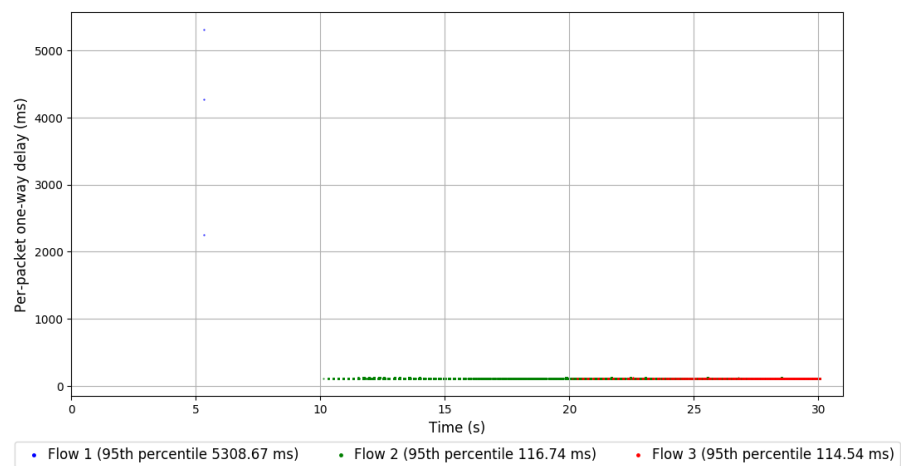
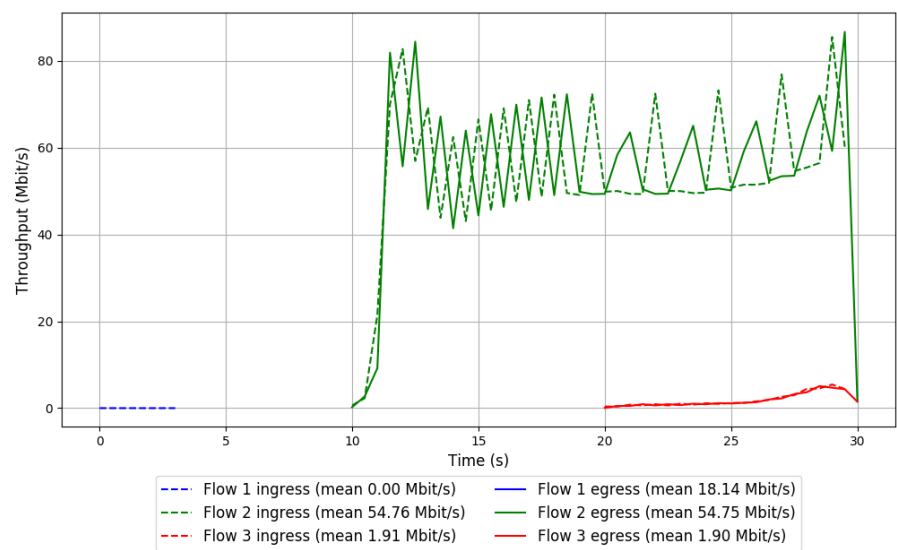
-- Flow 3:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 114.541 ms

Loss rate: 0.44%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-12 02:03:11

End at: 2017-12-12 02:03:41

Below is generated by plot.py at 2017-12-12 03:48:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.30 Mbit/s

95th percentile per-packet one-way delay: 124.828 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.81 Mbit/s

95th percentile per-packet one-way delay: 123.165 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 125.881 ms

Loss rate: 0.00%

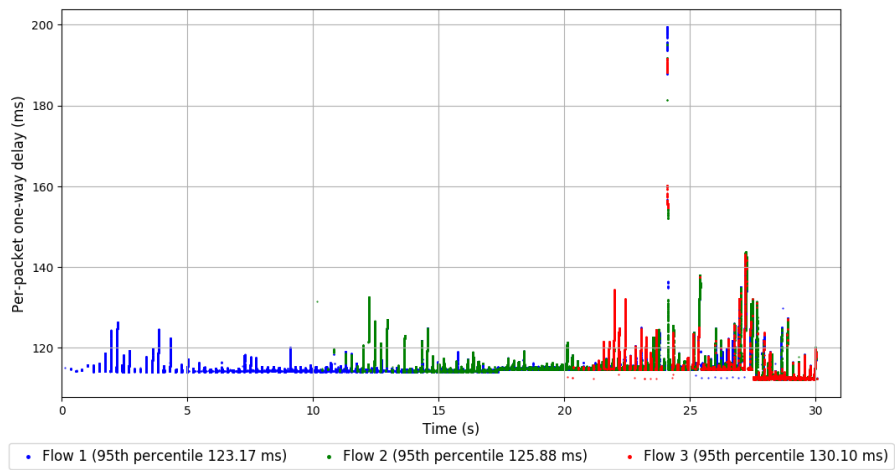
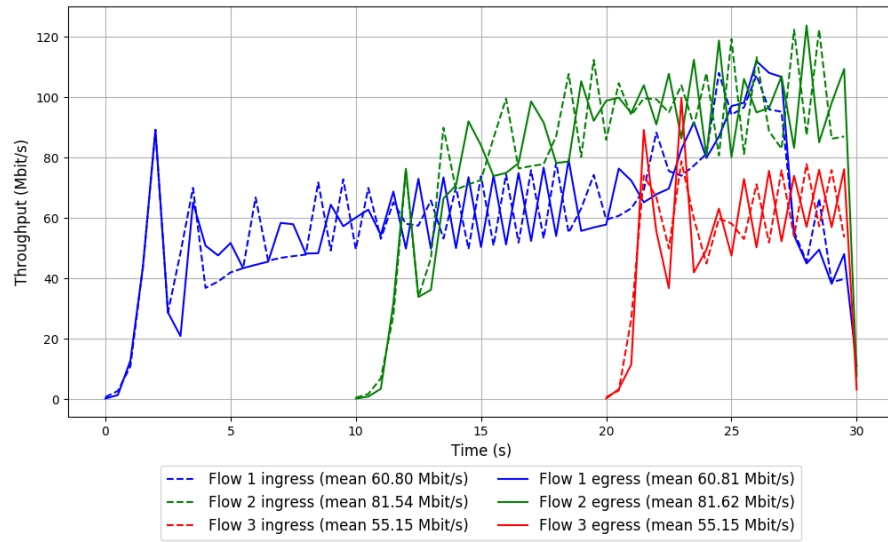
-- Flow 3:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 130.098 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-12 02:16:09

End at: 2017-12-12 02:16:39

Below is generated by plot.py at 2017-12-12 03:48:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 116.228 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 116.350 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 115.677 ms

Loss rate: 0.04%

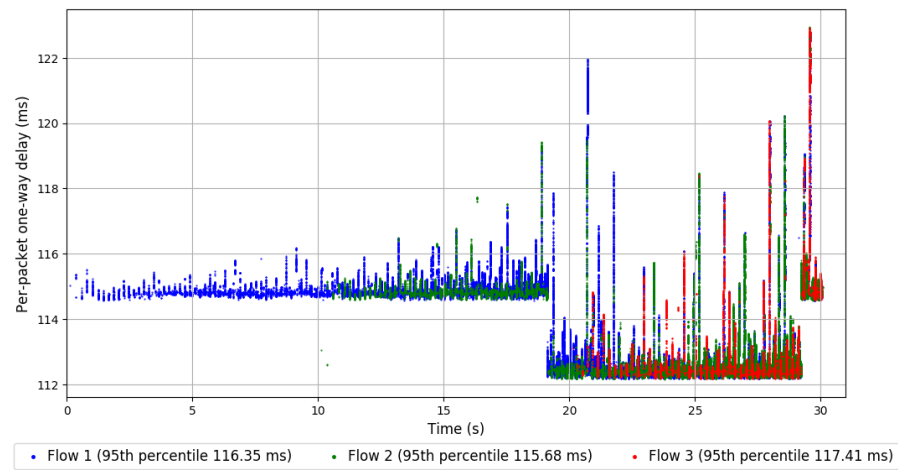
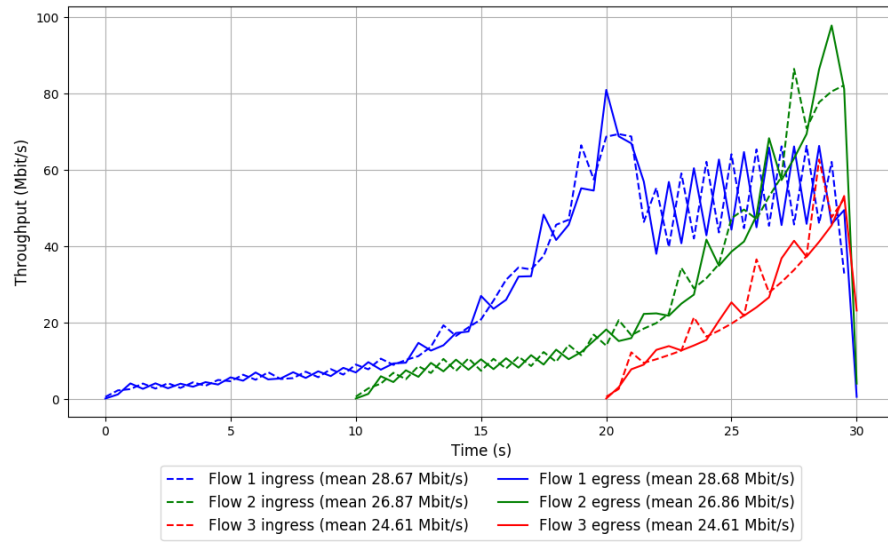
-- Flow 3:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 117.408 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-12 02:29:04

End at: 2017-12-12 02:29:34

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.69 Mbit/s

95th percentile per-packet one-way delay: 123.216 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 98.99 Mbit/s

95th percentile per-packet one-way delay: 122.307 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 123.289 ms

Loss rate: 0.01%

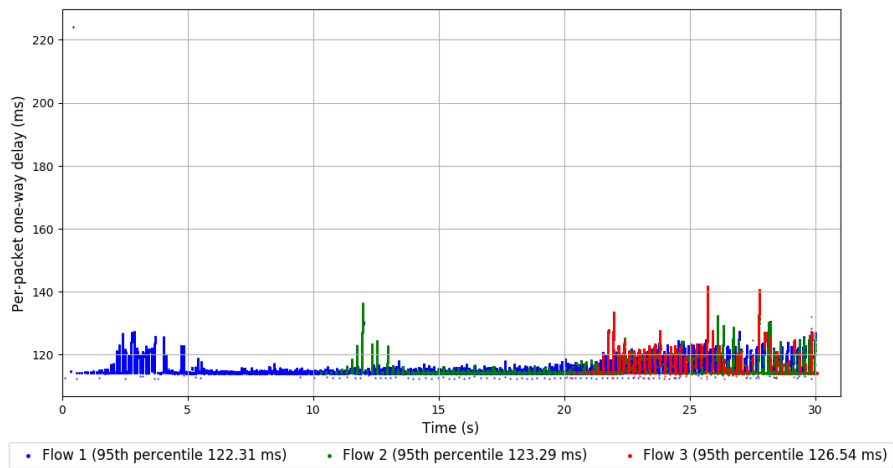
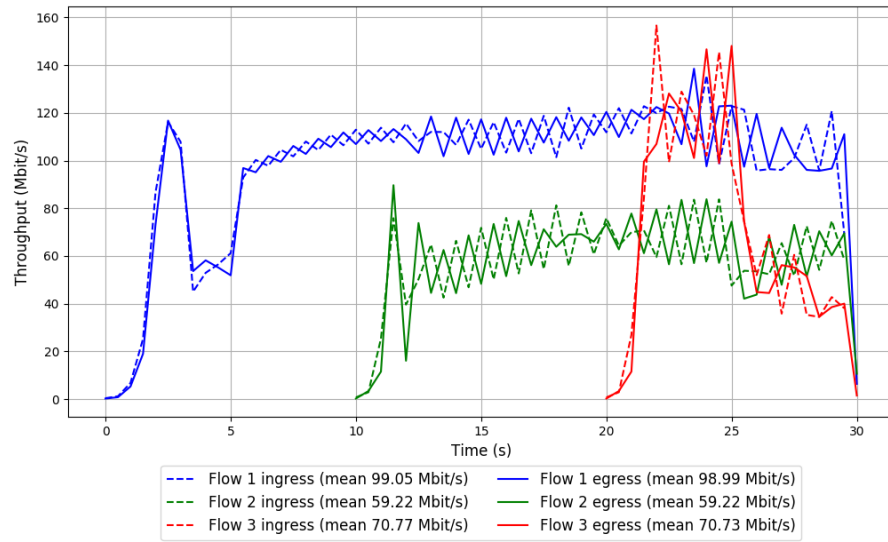
-- Flow 3:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 126.543 ms

Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link

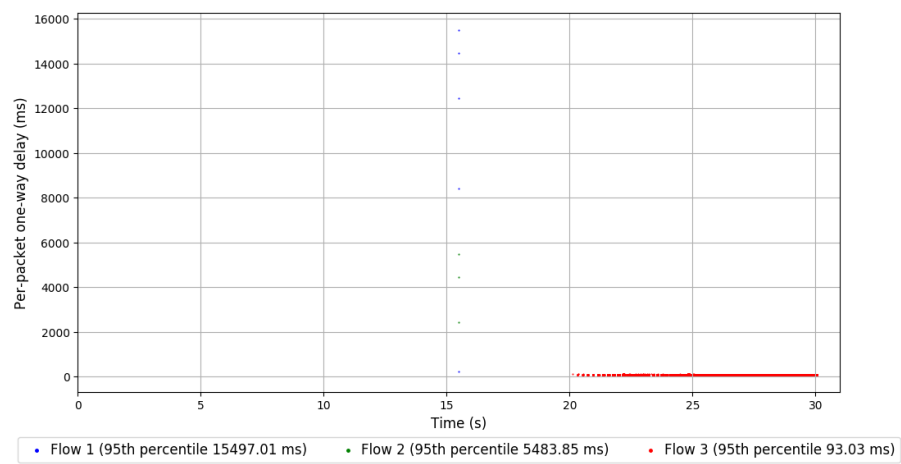
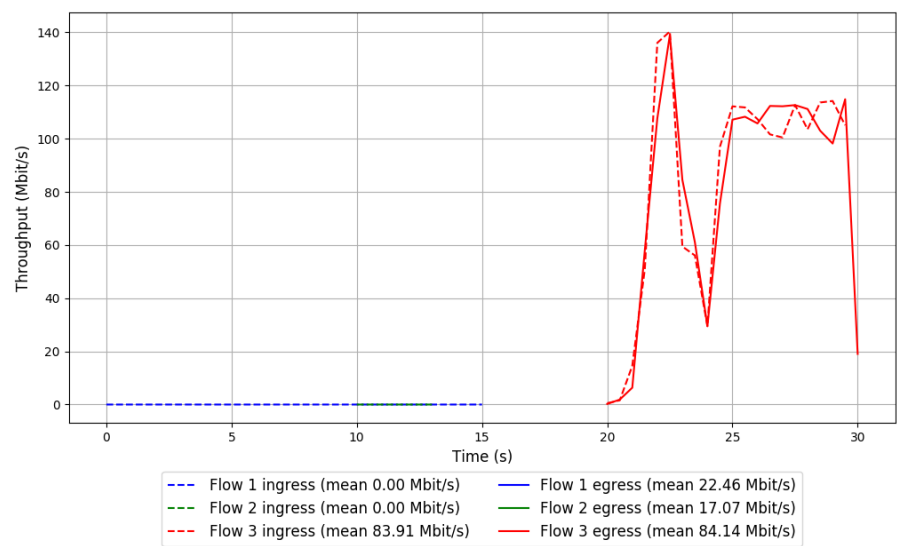


Run 10: Statistics of TCP Cubic

Start at: 2017-12-12 02:41:47

End at: 2017-12-12 02:42:17

Run 10: Report of TCP Cubic — Data Link

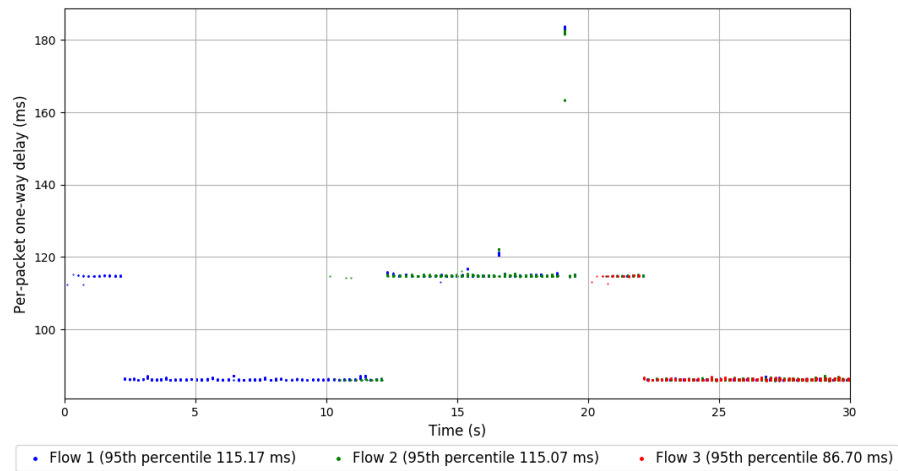
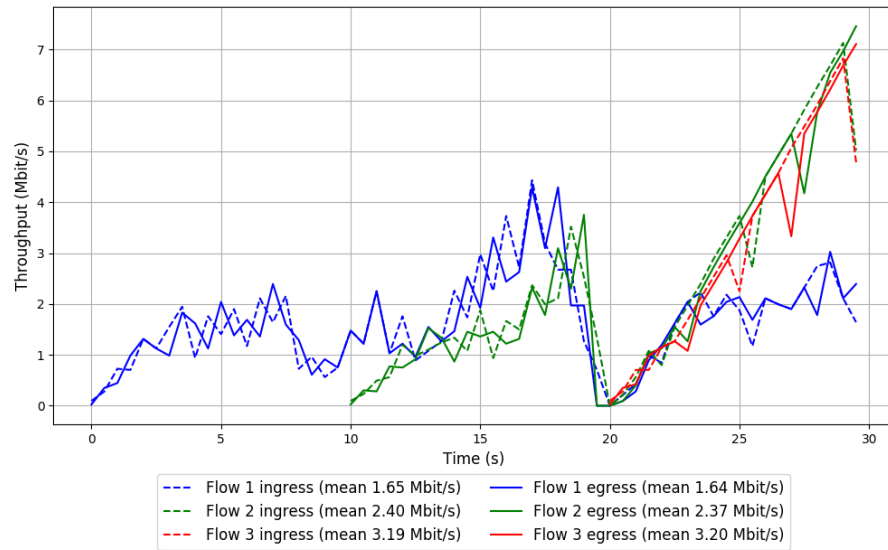


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-12 00:36:46
End at: 2017-12-12 00:37:16

# Below is generated by plot.py at 2017-12-12 03:49:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 115.063 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 115.175 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 115.071 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 86.705 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

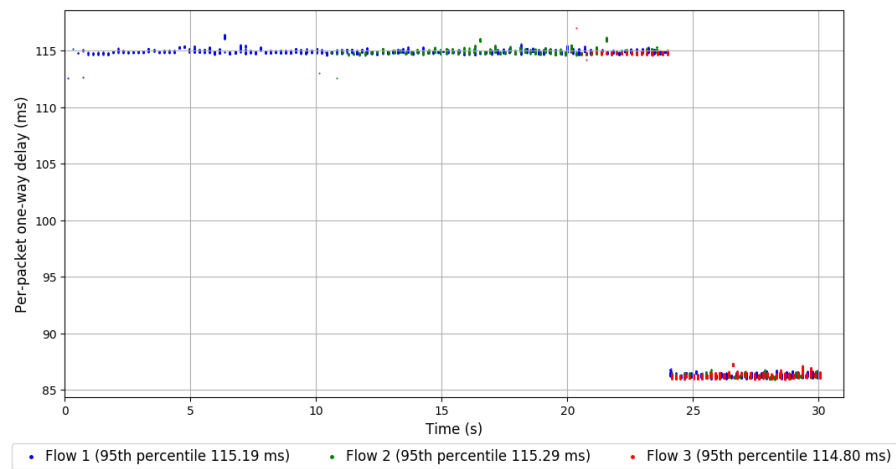
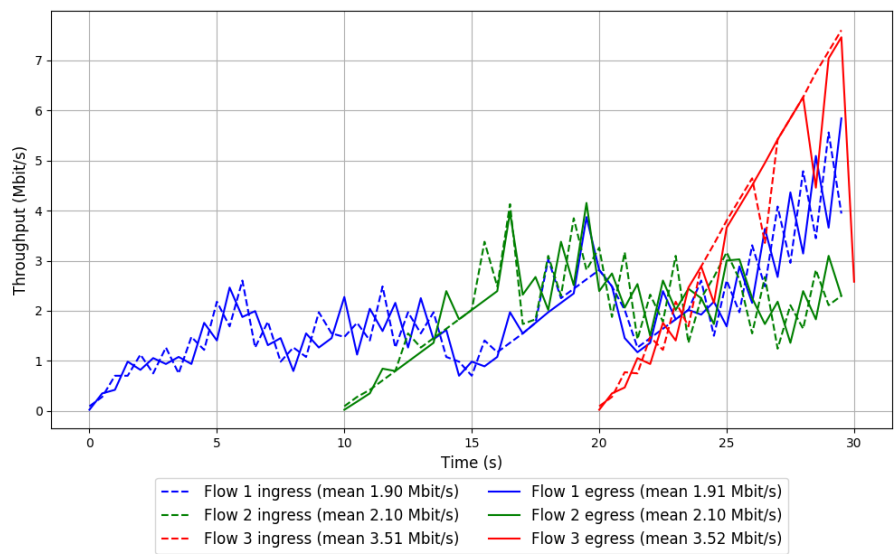


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-12 00:49:34
End at: 2017-12-12 00:50:04

# Below is generated by plot.py at 2017-12-12 03:49:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 115.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 115.186 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 115.294 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 114.800 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-12 01:02:15

End at: 2017-12-12 01:02:45

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 115.306 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 115.456 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 115.050 ms

Loss rate: 0.00%

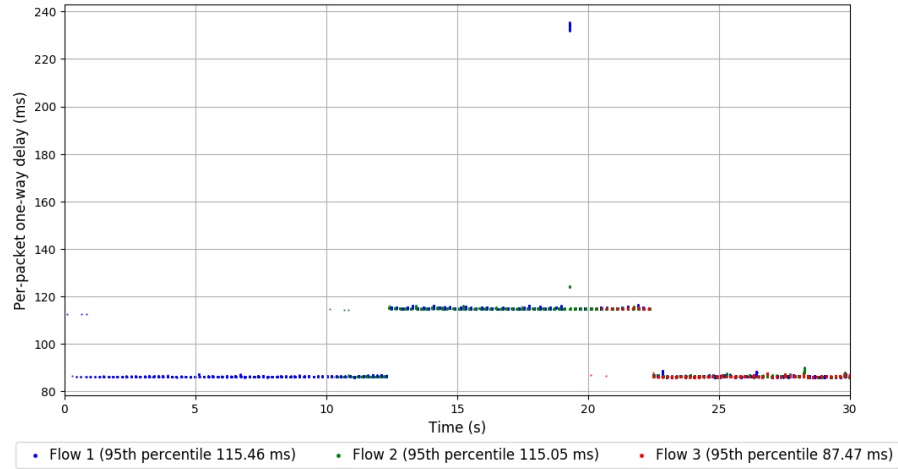
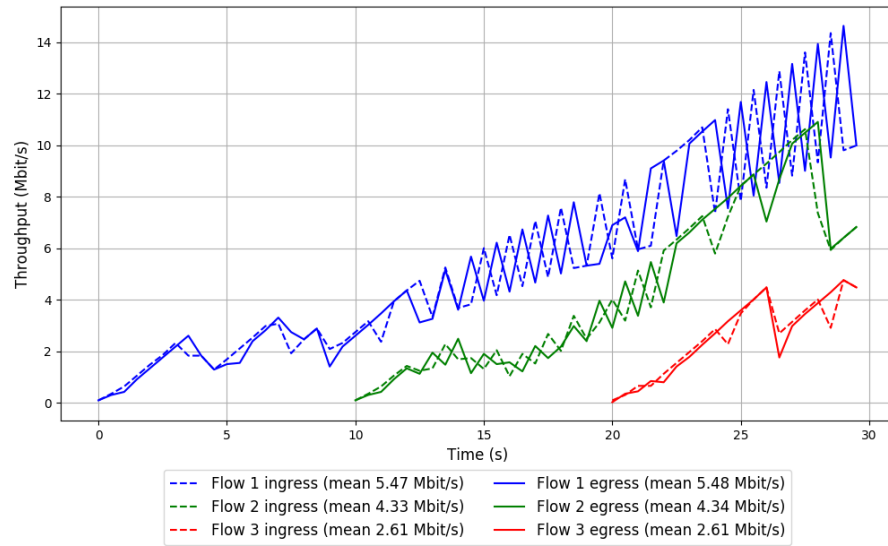
-- Flow 3:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 87.465 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-12 01:15:05

End at: 2017-12-12 01:15:35

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 115.517 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 115.840 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 115.101 ms

Loss rate: 0.00%

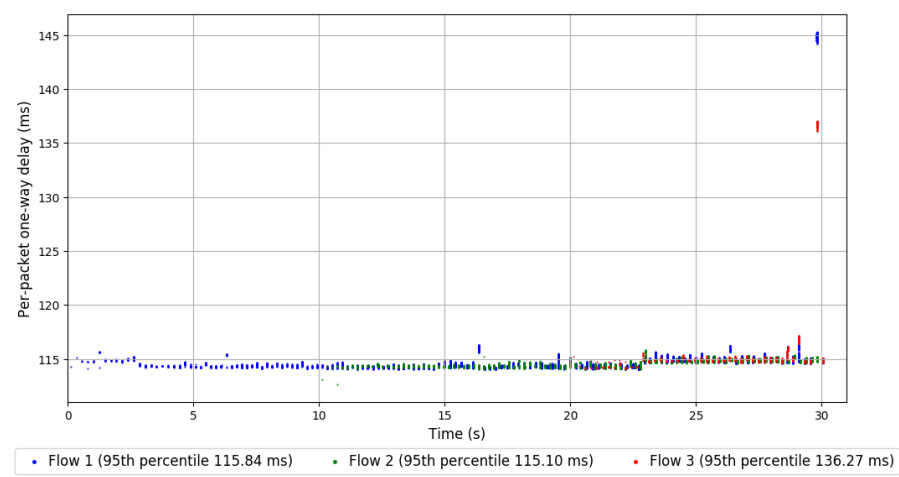
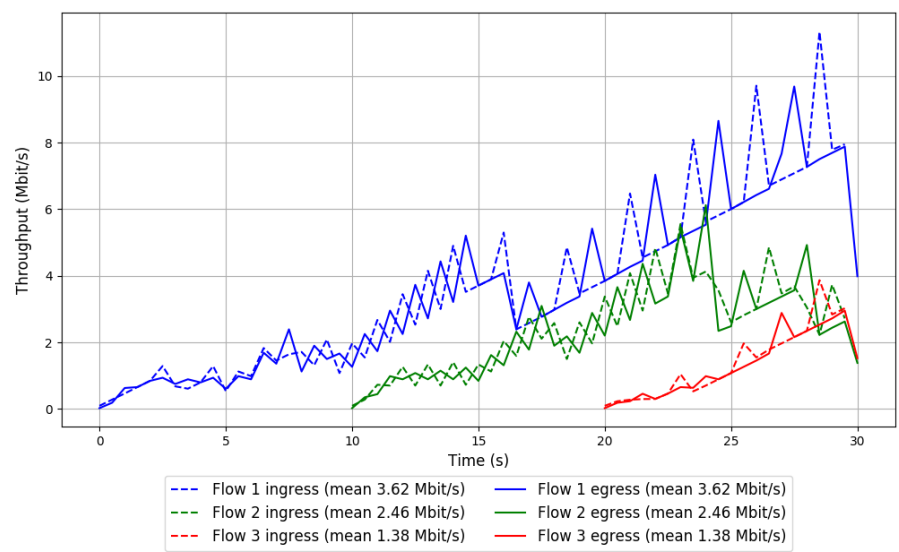
-- Flow 3:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 136.270 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-12 01:28:26

End at: 2017-12-12 01:28:56

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.75 Mbit/s

95th percentile per-packet one-way delay: 115.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 115.236 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 115.321 ms

Loss rate: 0.00%

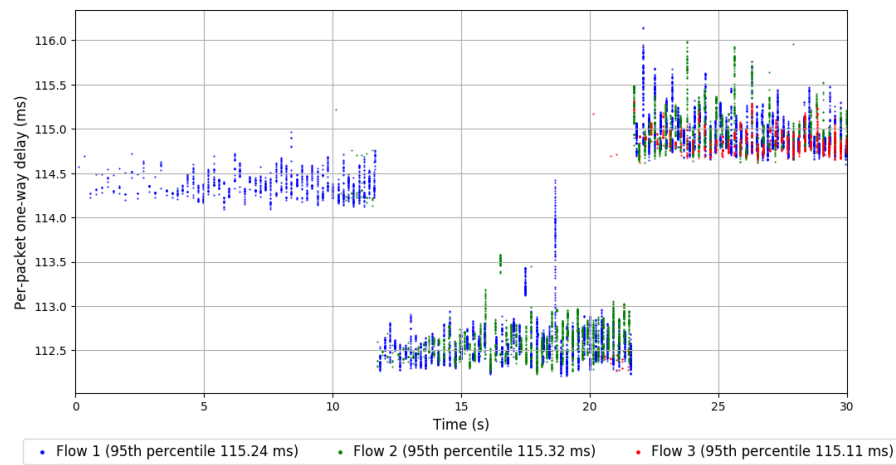
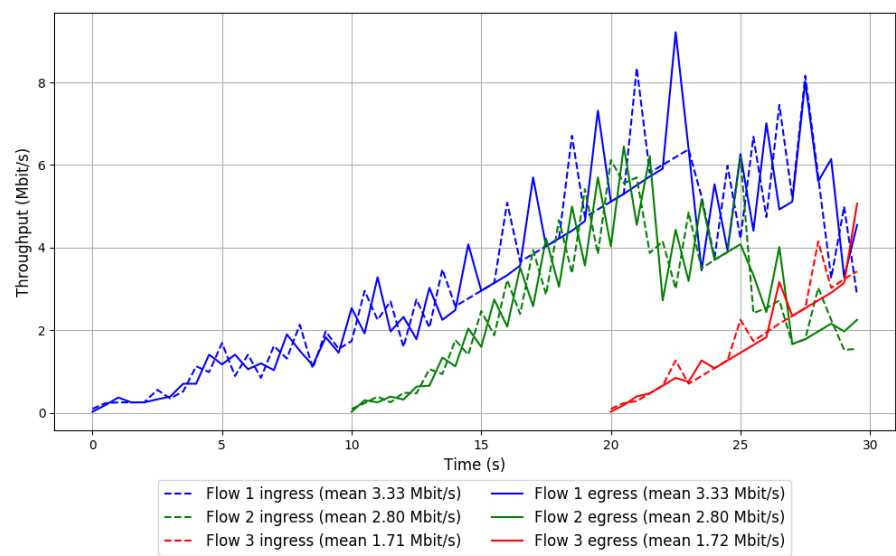
-- Flow 3:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 115.106 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-12 01:41:30

End at: 2017-12-12 01:42:00

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 114.864 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 114.970 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 114.756 ms

Loss rate: 0.00%

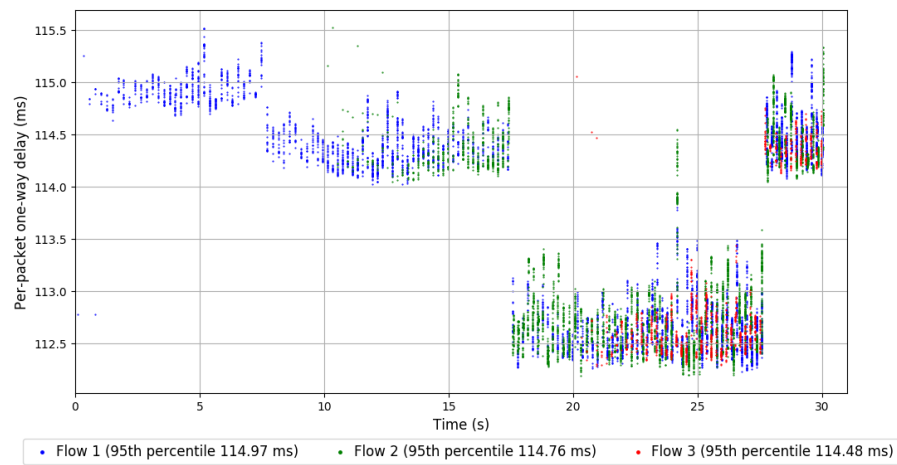
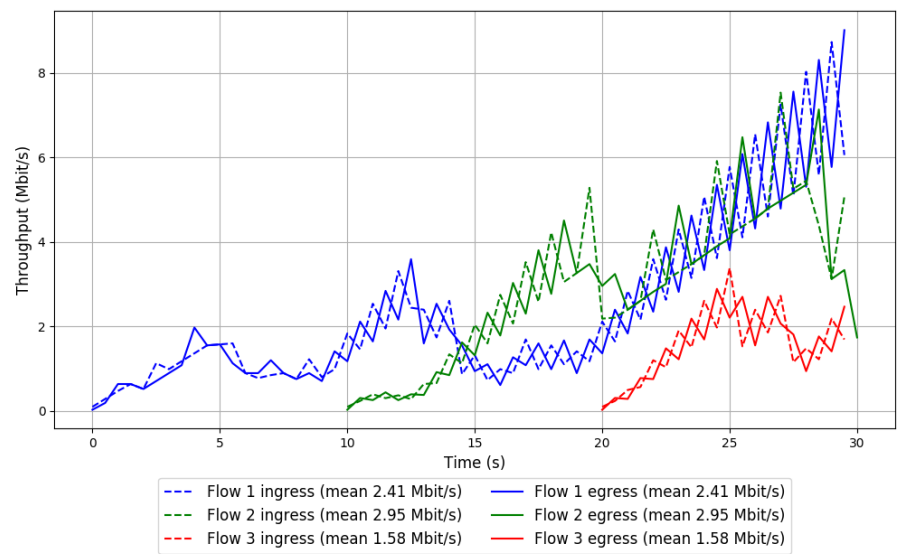
-- Flow 3:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 114.481 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-12 01:54:18

End at: 2017-12-12 01:54:48

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 115.124 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 115.194 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 114.967 ms

Loss rate: 0.00%

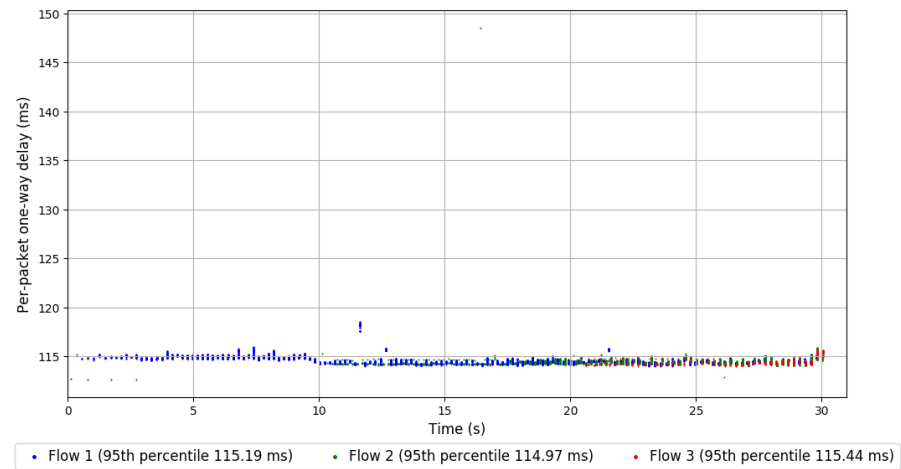
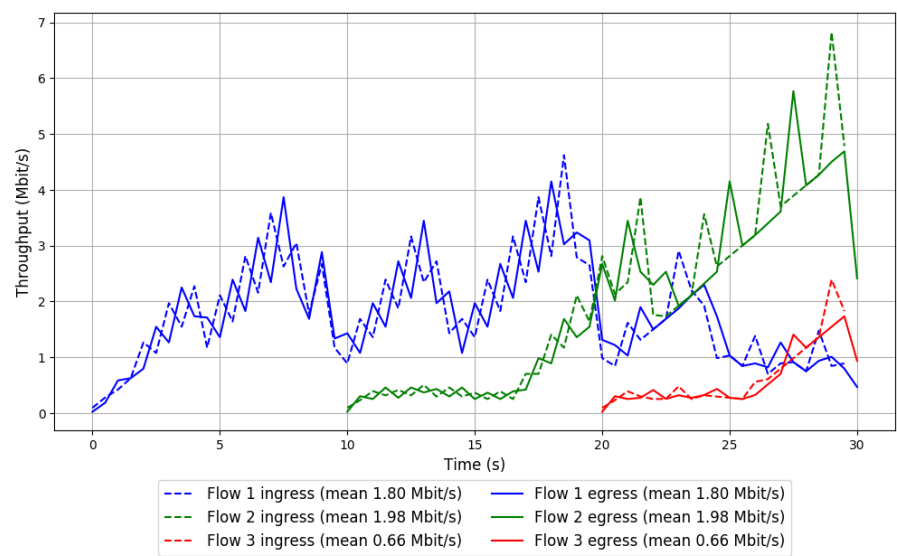
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 115.443 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-12 02:07:06

End at: 2017-12-12 02:07:36

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 115.356 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 115.370 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 114.681 ms

Loss rate: 0.00%

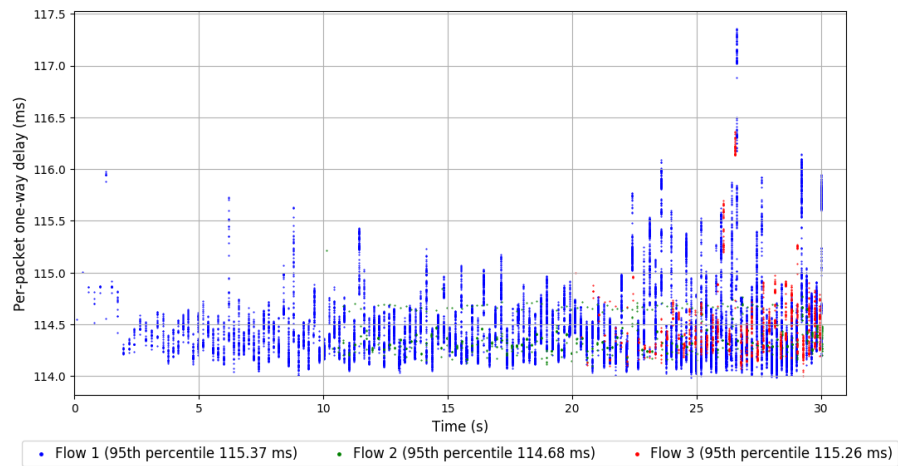
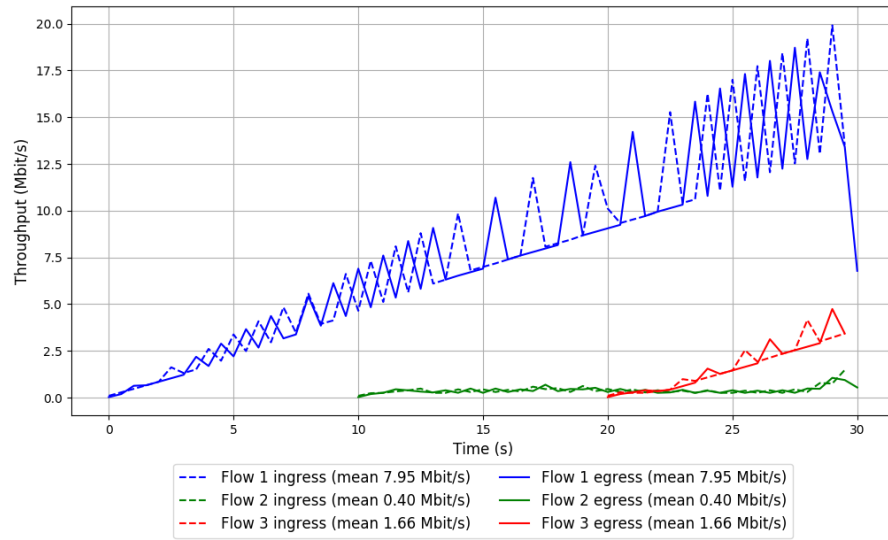
-- Flow 3:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 115.264 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-12 02:20:08

End at: 2017-12-12 02:20:38

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.16 Mbit/s

95th percentile per-packet one-way delay: 115.068 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 115.129 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 115.000 ms

Loss rate: 0.00%

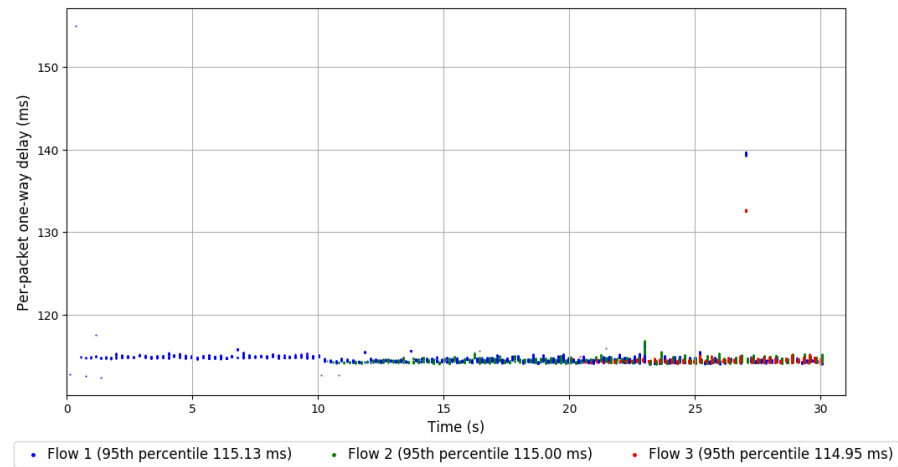
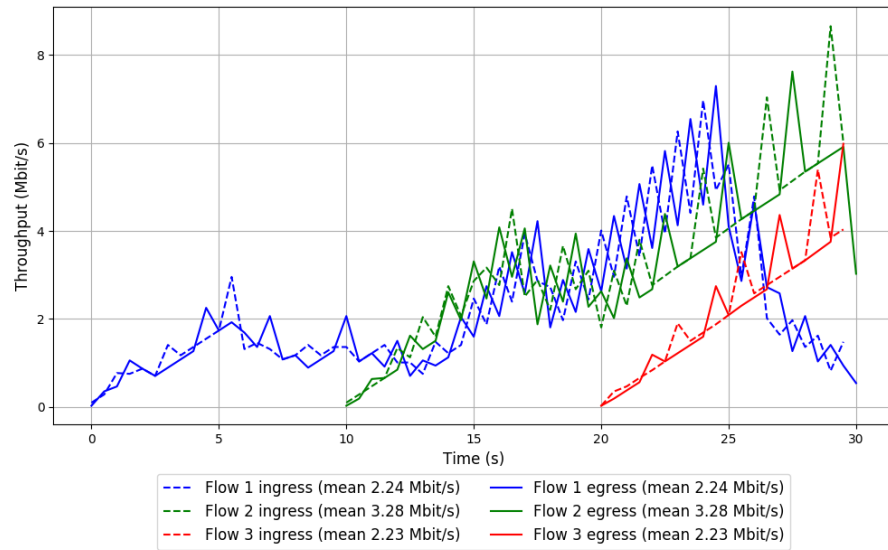
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 114.950 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-12 02:33:05

End at: 2017-12-12 02:33:35

Below is generated by plot.py at 2017-12-12 03:49:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 115.037 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 115.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 114.910 ms

Loss rate: 0.00%

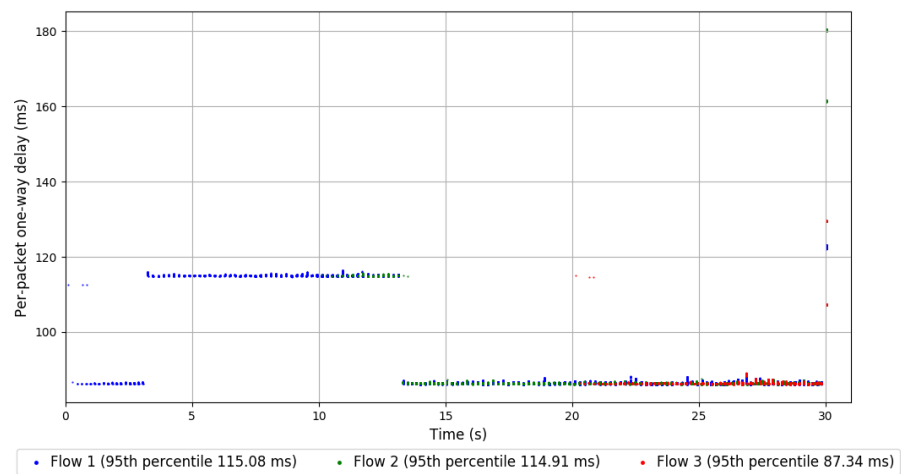
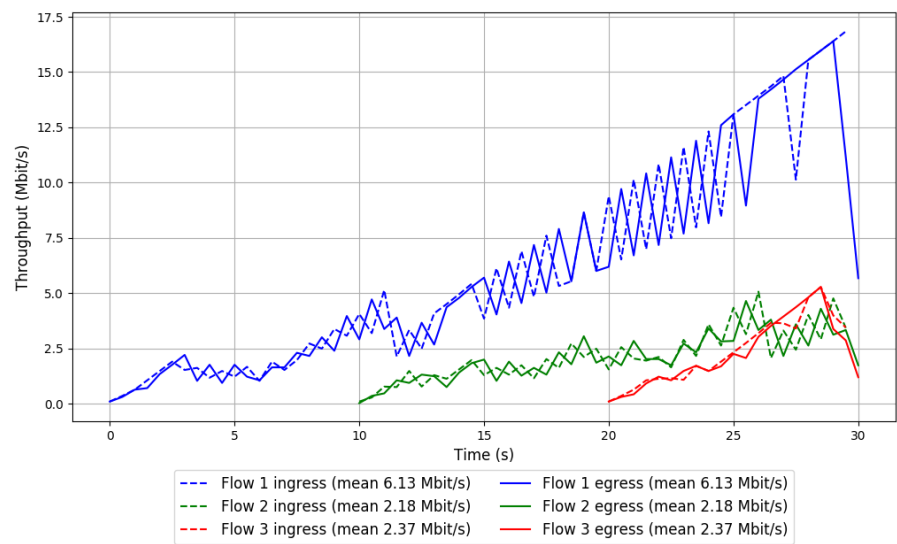
-- Flow 3:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 87.341 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

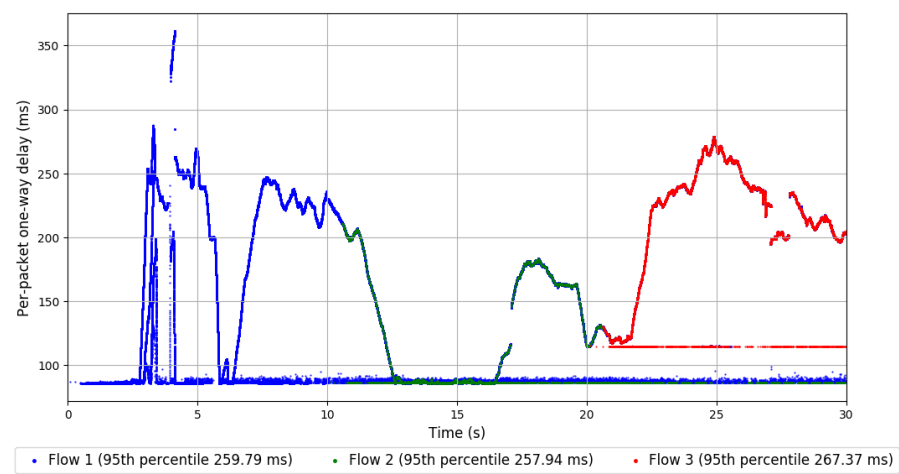
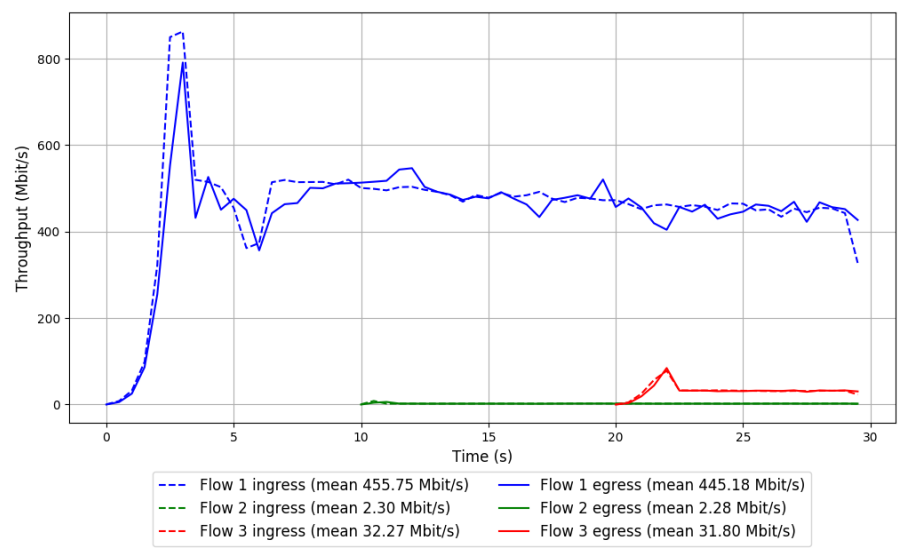


```
Run 1: Statistics of PCC

Start at: 2017-12-12 00:44:31
End at: 2017-12-12 00:45:01

# Below is generated by plot.py at 2017-12-12 03:56:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 457.14 Mbit/s
95th percentile per-packet one-way delay: 259.922 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 445.18 Mbit/s
95th percentile per-packet one-way delay: 259.789 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 257.941 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 267.374 ms
Loss rate: 1.46%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-12 00:57:20

End at: 2017-12-12 00:57:50

Below is generated by plot.py at 2017-12-12 03:56:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.74 Mbit/s

95th percentile per-packet one-way delay: 267.030 ms

Loss rate: 6.21%

-- Flow 1:

Average throughput: 410.37 Mbit/s

95th percentile per-packet one-way delay: 267.670 ms

Loss rate: 6.47%

-- Flow 2:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 266.779 ms

Loss rate: 4.86%

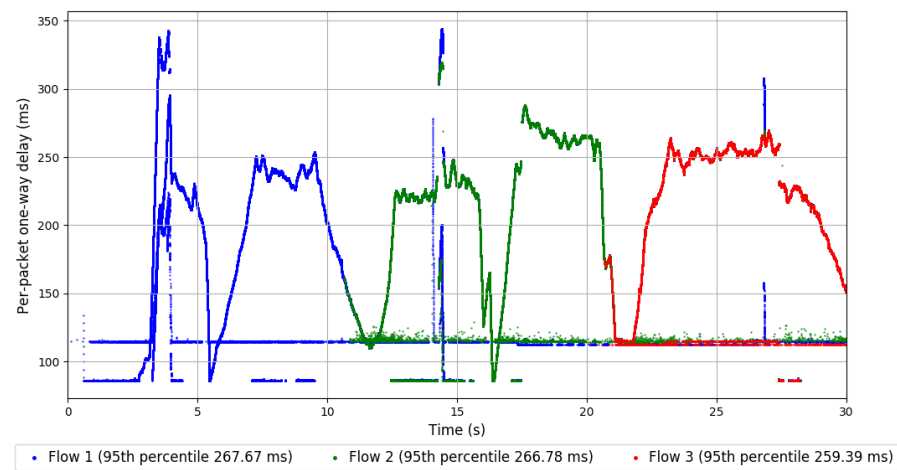
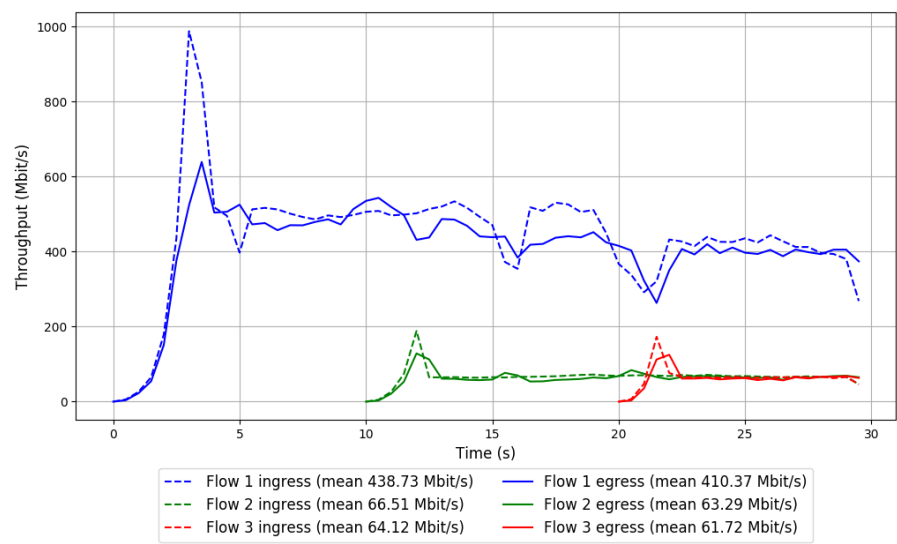
-- Flow 3:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 259.391 ms

Loss rate: 3.74%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-12 01:09:58

End at: 2017-12-12 01:10:28

Below is generated by plot.py at 2017-12-12 03:56:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.97 Mbit/s

95th percentile per-packet one-way delay: 236.269 ms

Loss rate: 3.16%

-- Flow 1:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 234.099 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 402.46 Mbit/s

95th percentile per-packet one-way delay: 236.240 ms

Loss rate: 3.25%

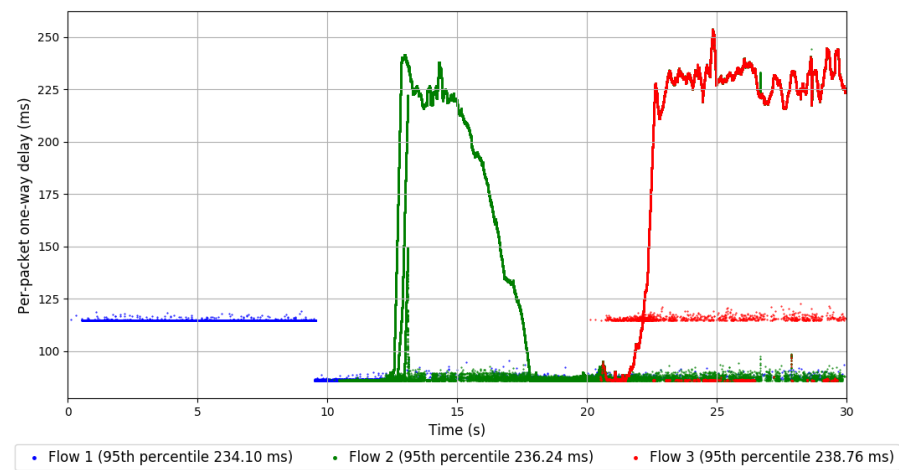
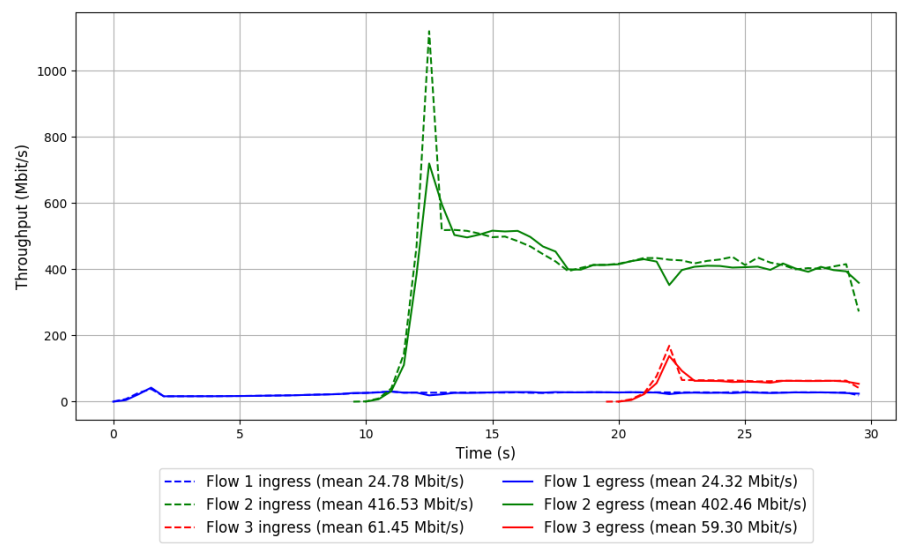
-- Flow 3:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 238.757 ms

Loss rate: 3.52%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-12 01:23:21

End at: 2017-12-12 01:23:51

Below is generated by plot.py at 2017-12-12 03:56:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 438.79 Mbit/s

95th percentile per-packet one-way delay: 278.003 ms

Loss rate: 3.51%

-- Flow 1:

Average throughput: 357.86 Mbit/s

95th percentile per-packet one-way delay: 278.759 ms

Loss rate: 3.62%

-- Flow 2:

Average throughput: 63.58 Mbit/s

95th percentile per-packet one-way delay: 278.368 ms

Loss rate: 3.43%

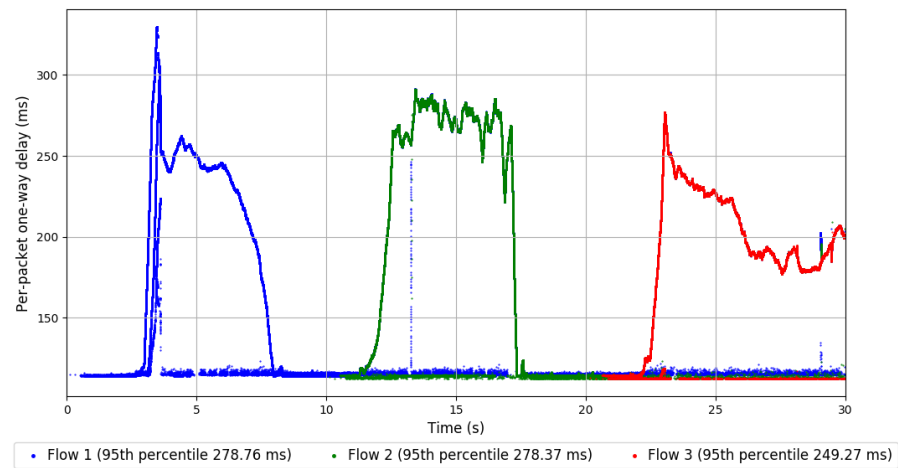
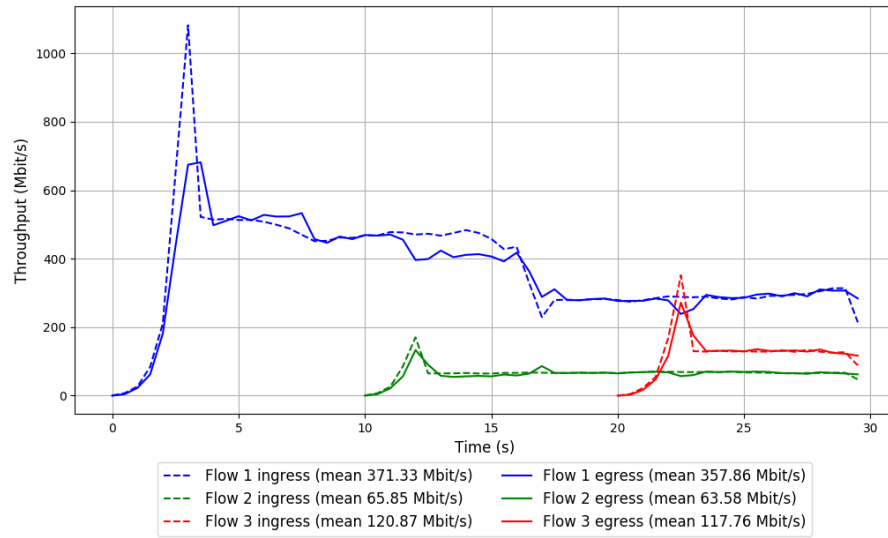
-- Flow 3:

Average throughput: 117.76 Mbit/s

95th percentile per-packet one-way delay: 249.266 ms

Loss rate: 2.56%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-12 01:36:26

End at: 2017-12-12 01:36:56

Below is generated by plot.py at 2017-12-12 03:56:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 436.98 Mbit/s

95th percentile per-packet one-way delay: 277.814 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 413.90 Mbit/s

95th percentile per-packet one-way delay: 278.227 ms

Loss rate: 2.90%

-- Flow 2:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 256.519 ms

Loss rate: 0.82%

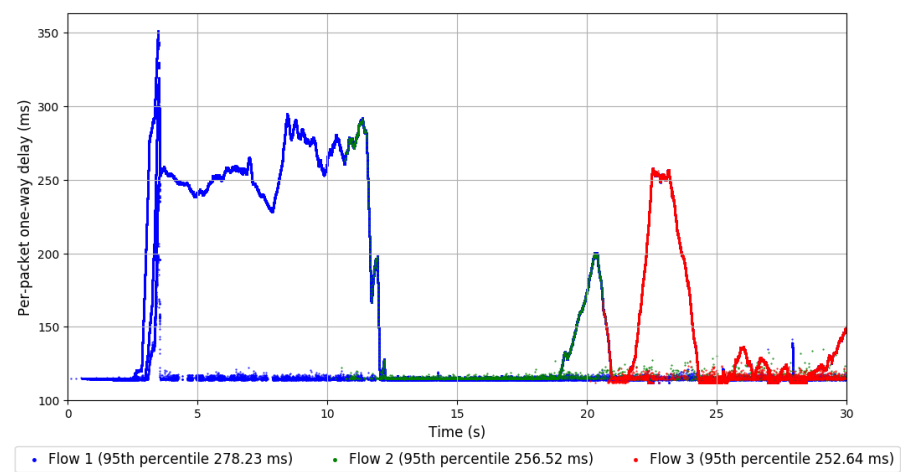
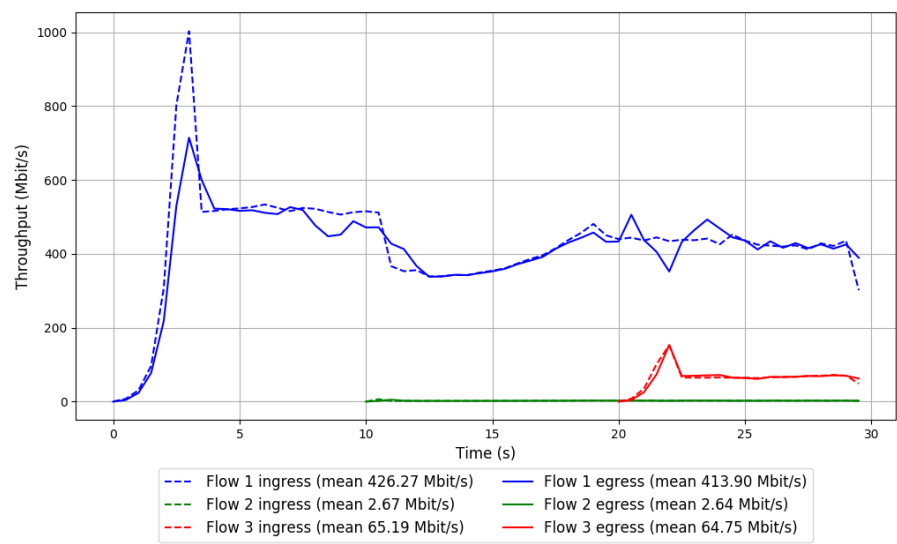
-- Flow 3:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 252.638 ms

Loss rate: 0.63%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-12 01:49:14

End at: 2017-12-12 01:49:44

Below is generated by plot.py at 2017-12-12 03:56:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.92 Mbit/s

95th percentile per-packet one-way delay: 280.009 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 452.69 Mbit/s

95th percentile per-packet one-way delay: 279.991 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 279.217 ms

Loss rate: 0.95%

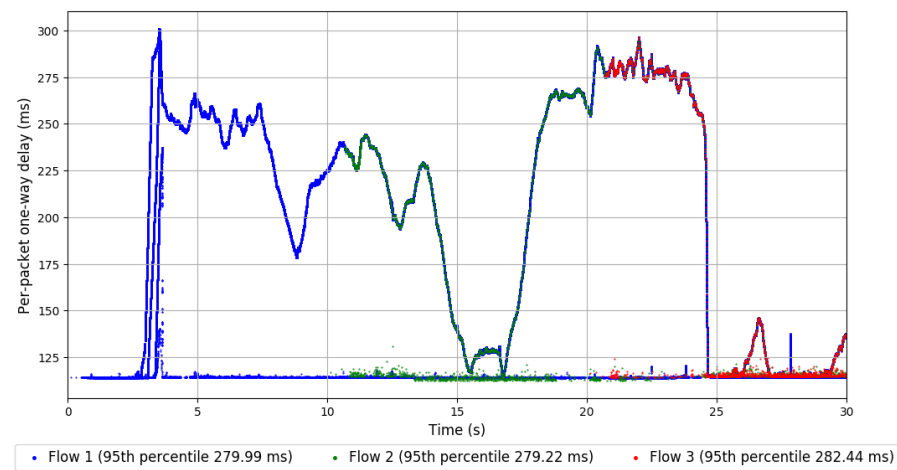
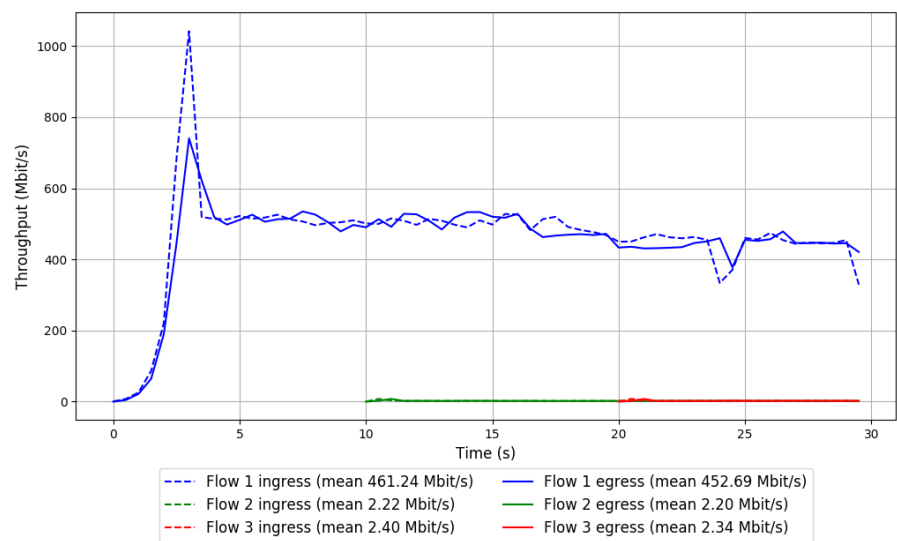
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 282.441 ms

Loss rate: 2.44%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

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

Below is generated by plot.py at 2017-12-12 03:57:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.81 Mbit/s

95th percentile per-packet one-way delay: 237.279 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 468.92 Mbit/s

95th percentile per-packet one-way delay: 238.030 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 219.535 ms

Loss rate: 0.58%

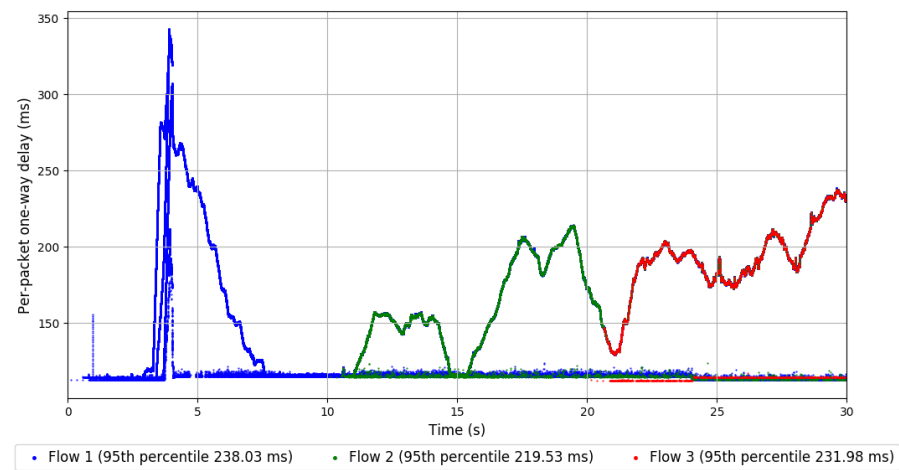
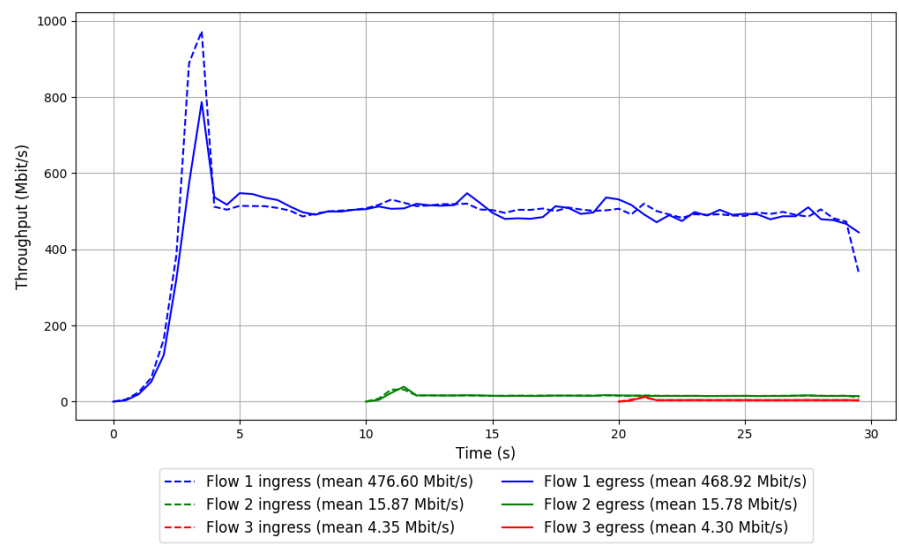
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 231.983 ms

Loss rate: 1.09%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-12 02:15:01

End at: 2017-12-12 02:15:31

Below is generated by plot.py at 2017-12-12 03:58:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.70 Mbit/s

95th percentile per-packet one-way delay: 265.821 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 468.46 Mbit/s

95th percentile per-packet one-way delay: 265.942 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 260.453 ms

Loss rate: 0.75%

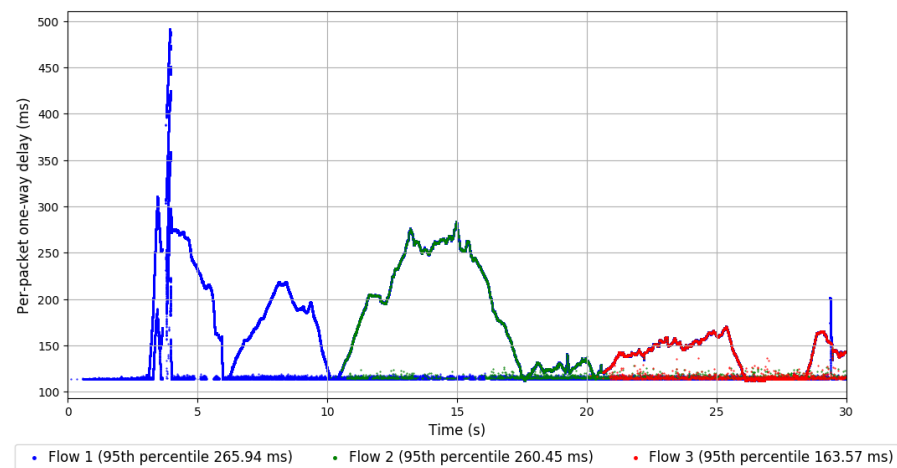
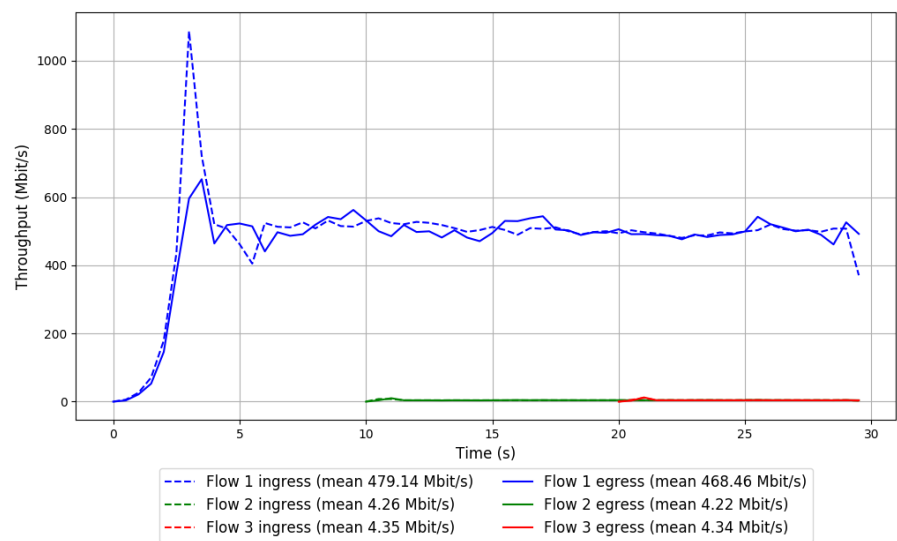
-- Flow 3:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 163.573 ms

Loss rate: 0.31%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-12 02:28:02

End at: 2017-12-12 02:28:32

Below is generated by plot.py at 2017-12-12 04:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.78 Mbit/s

95th percentile per-packet one-way delay: 239.352 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 280.89 Mbit/s

95th percentile per-packet one-way delay: 239.405 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 136.06 Mbit/s

95th percentile per-packet one-way delay: 239.507 ms

Loss rate: 0.40%

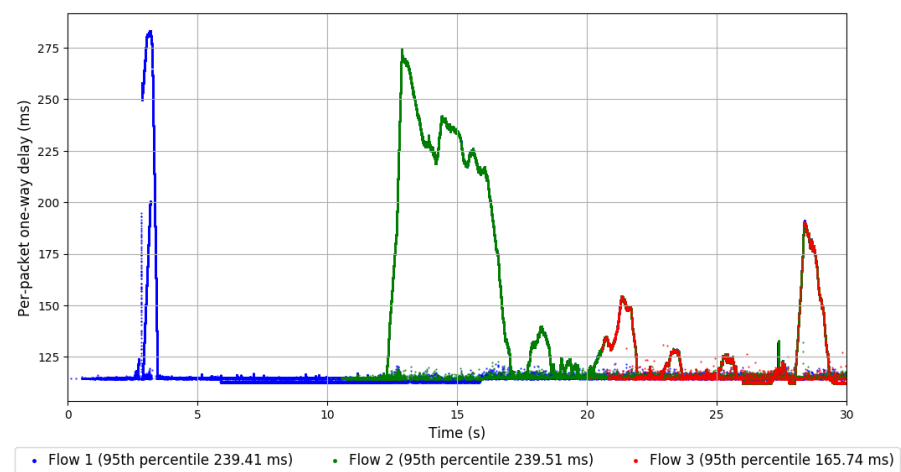
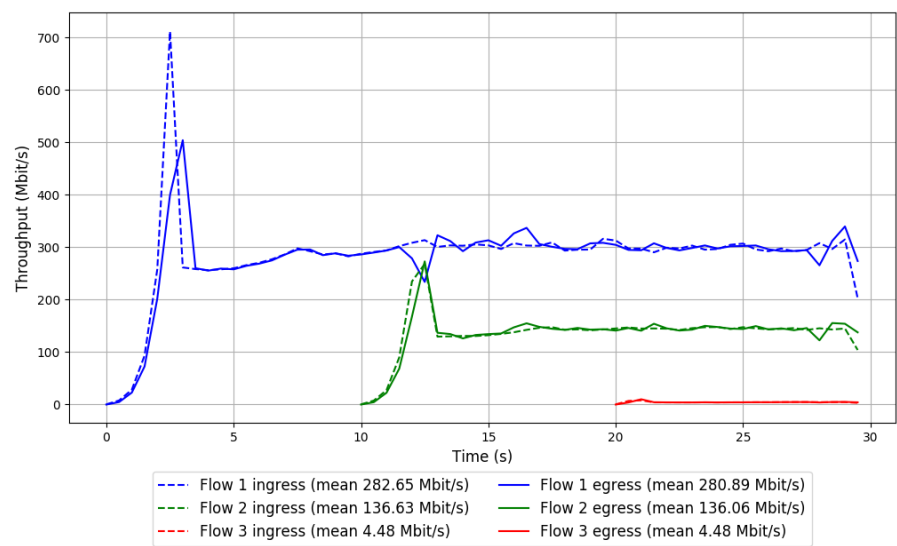
-- Flow 3:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 165.737 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link

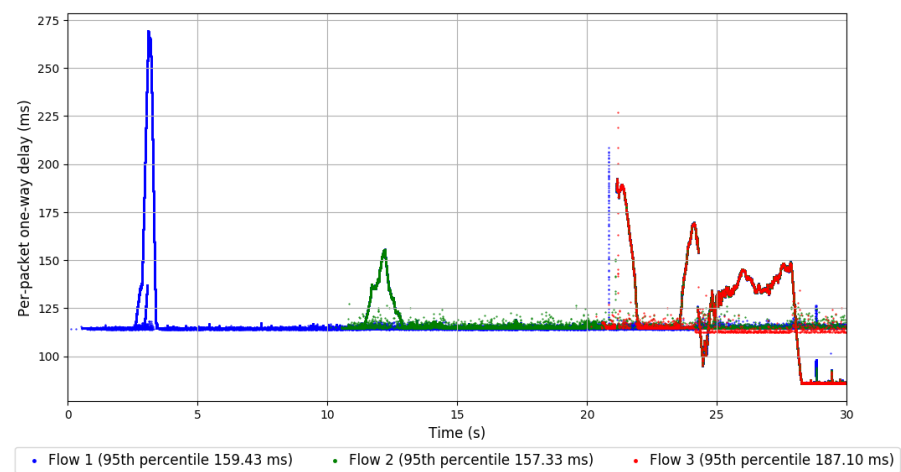
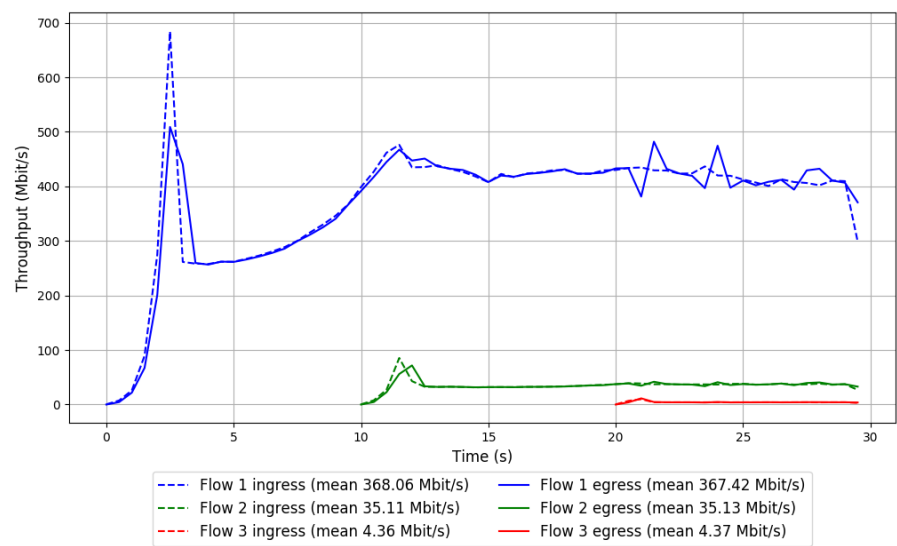


```
Run 10: Statistics of PCC

Start at: 2017-12-12 02:40:43
End at: 2017-12-12 02:41:13

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.20 Mbit/s
95th percentile per-packet one-way delay: 159.440 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 367.42 Mbit/s
95th percentile per-packet one-way delay: 159.430 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 35.13 Mbit/s
95th percentile per-packet one-way delay: 157.329 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 187.104 ms
Loss rate: 0.00%
```

Run 10: Report of PCC — Data Link

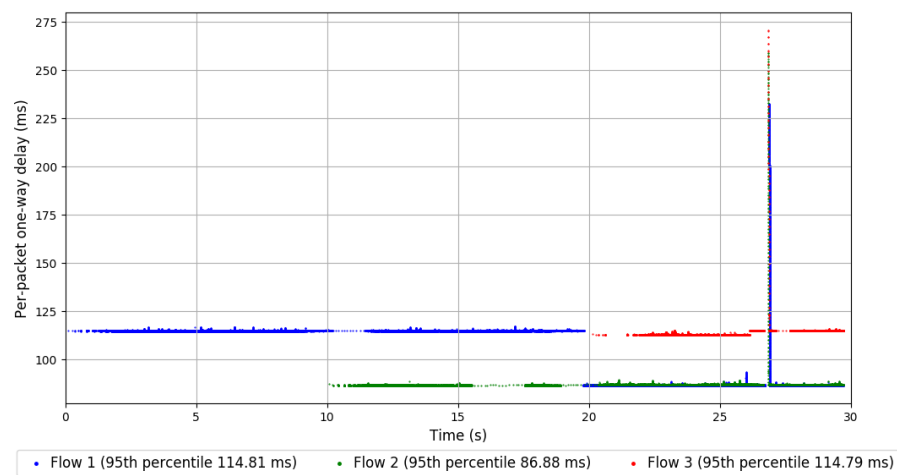
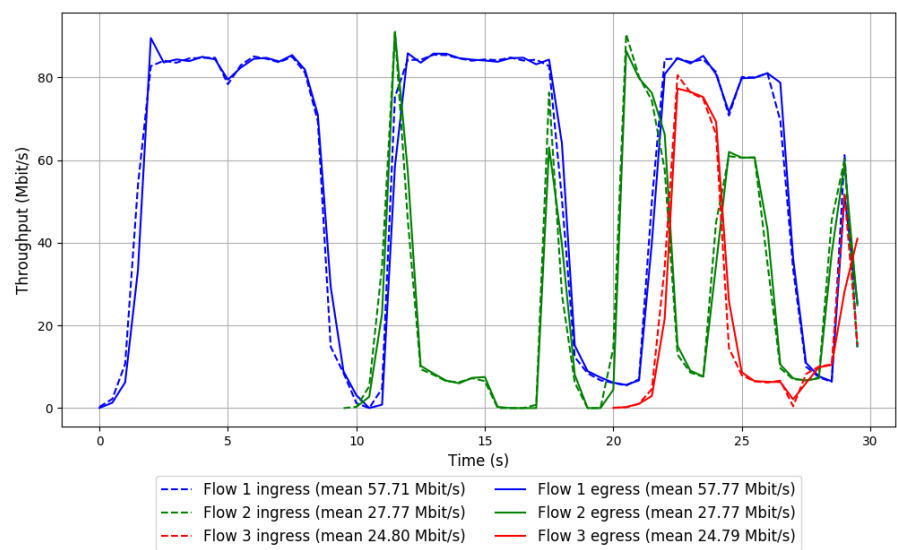


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-12 00:41:07
End at: 2017-12-12 00:41:37

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.18 Mbit/s
95th percentile per-packet one-way delay: 114.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.77 Mbit/s
95th percentile per-packet one-way delay: 114.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 86.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 114.792 ms
Loss rate: 0.05%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-12 00:53:54

End at: 2017-12-12 00:54:24

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.95 Mbit/s

95th percentile per-packet one-way delay: 114.692 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 112.464 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 114.700 ms

Loss rate: 0.00%

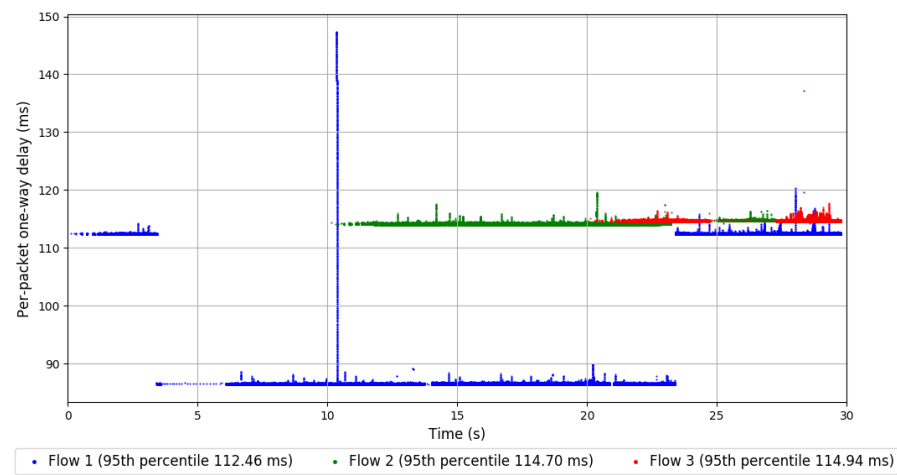
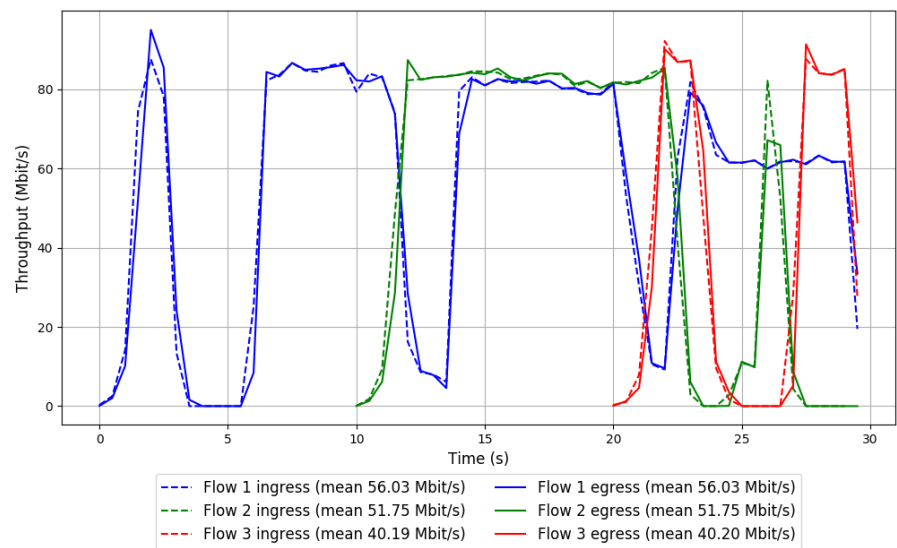
-- Flow 3:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 114.937 ms

Loss rate: 0.03%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-12 01:06:29

End at: 2017-12-12 01:06:59

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.87 Mbit/s

95th percentile per-packet one-way delay: 114.816 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.25 Mbit/s

95th percentile per-packet one-way delay: 114.812 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 114.796 ms

Loss rate: 0.01%

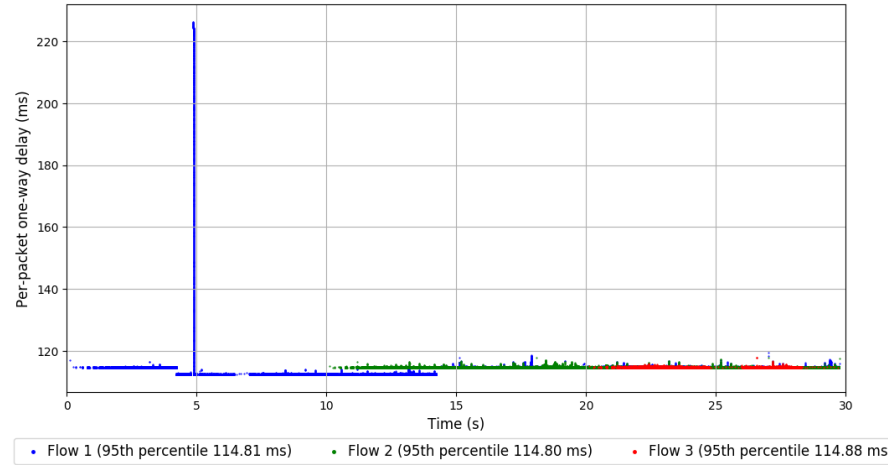
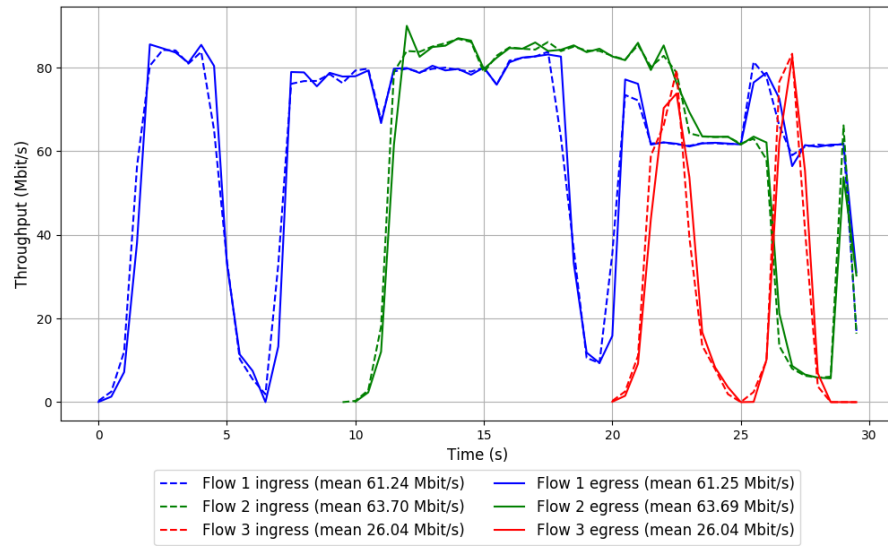
-- Flow 3:

Average throughput: 26.04 Mbit/s

95th percentile per-packet one-way delay: 114.884 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-12 01:19:37

End at: 2017-12-12 01:20:07

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.90 Mbit/s

95th percentile per-packet one-way delay: 114.801 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.96 Mbit/s

95th percentile per-packet one-way delay: 112.736 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.56 Mbit/s

95th percentile per-packet one-way delay: 114.838 ms

Loss rate: 0.00%

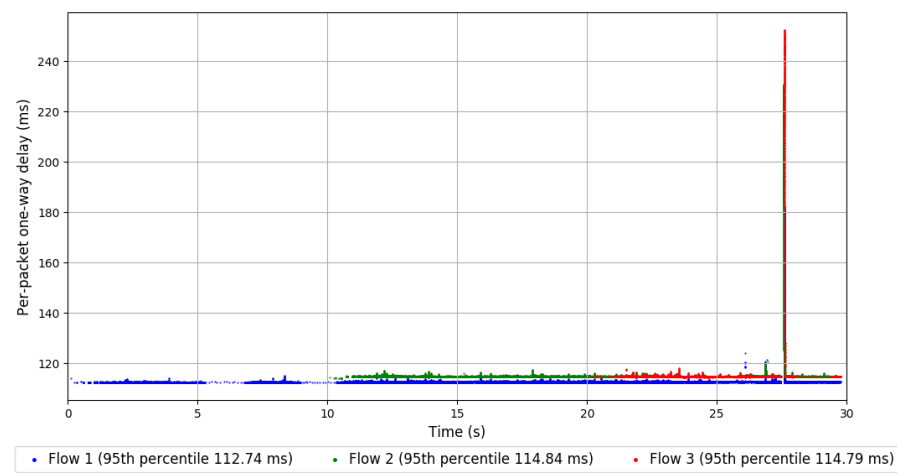
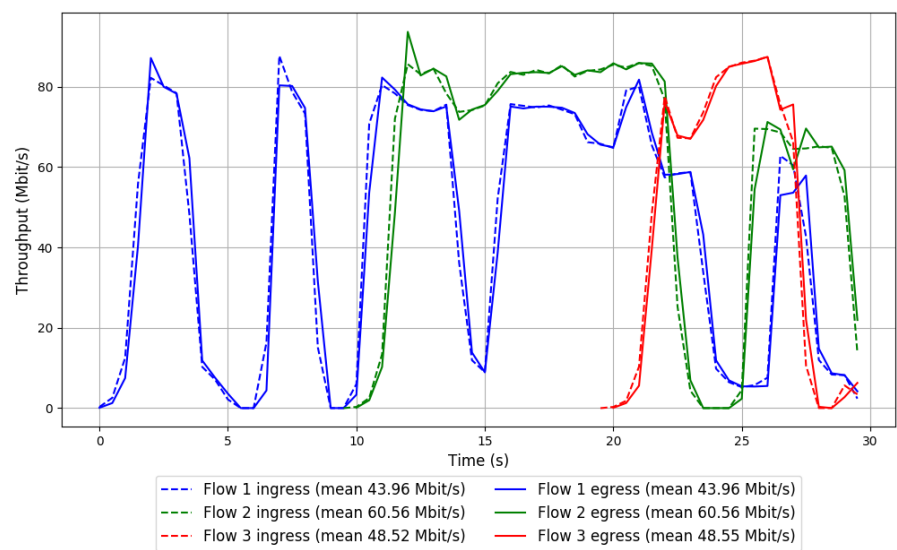
-- Flow 3:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 114.789 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-12 01:32:50

End at: 2017-12-12 01:33:20

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.69 Mbit/s

95th percentile per-packet one-way delay: 114.752 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.88 Mbit/s

95th percentile per-packet one-way delay: 112.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 114.832 ms

Loss rate: 0.00%

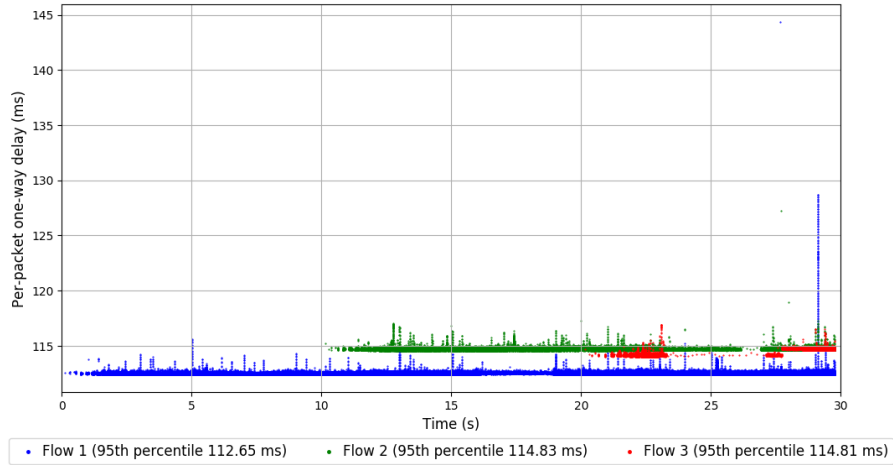
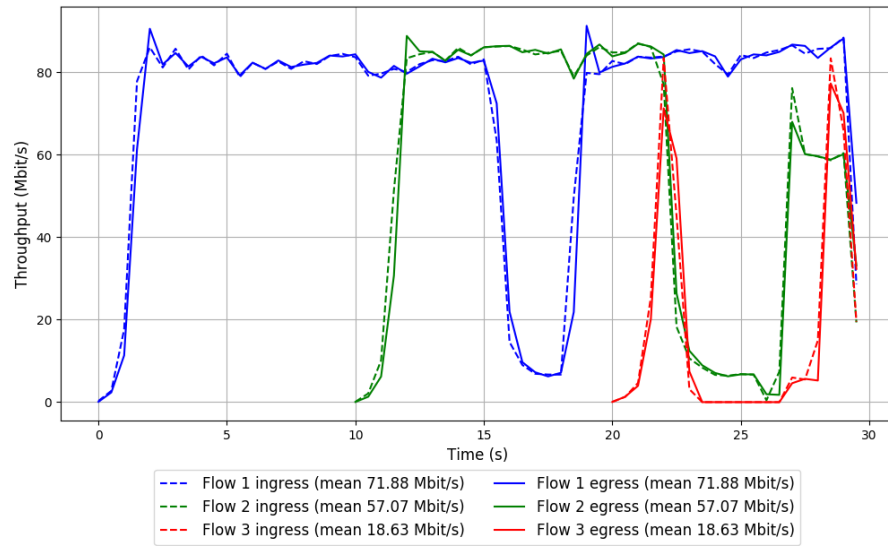
-- Flow 3:

Average throughput: 18.63 Mbit/s

95th percentile per-packet one-way delay: 114.814 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-12 01:45:43

End at: 2017-12-12 01:46:13

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.88 Mbit/s

95th percentile per-packet one-way delay: 114.438 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.91 Mbit/s

95th percentile per-packet one-way delay: 114.486 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 112.786 ms

Loss rate: 0.00%

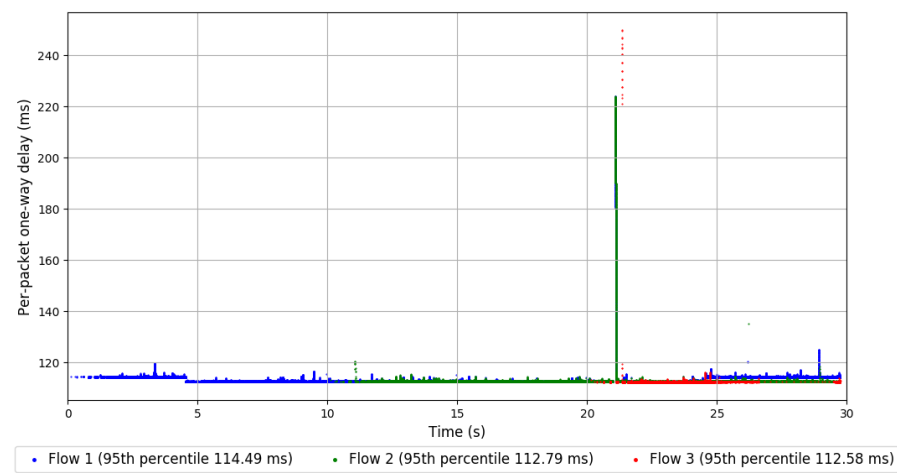
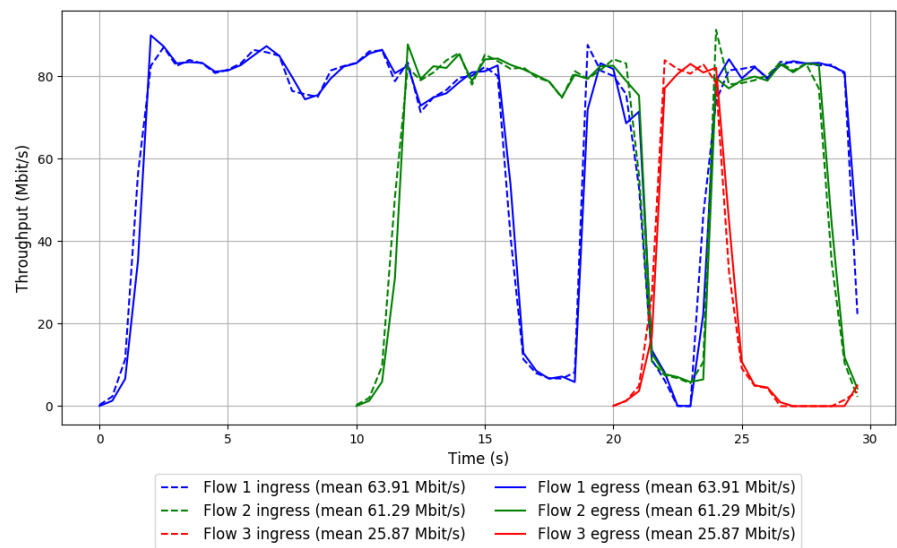
-- Flow 3:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 112.578 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-12 01:58:42

End at: 2017-12-12 01:59:12

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.79 Mbit/s

95th percentile per-packet one-way delay: 114.785 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.73 Mbit/s

95th percentile per-packet one-way delay: 114.818 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 114.218 ms

Loss rate: 0.00%

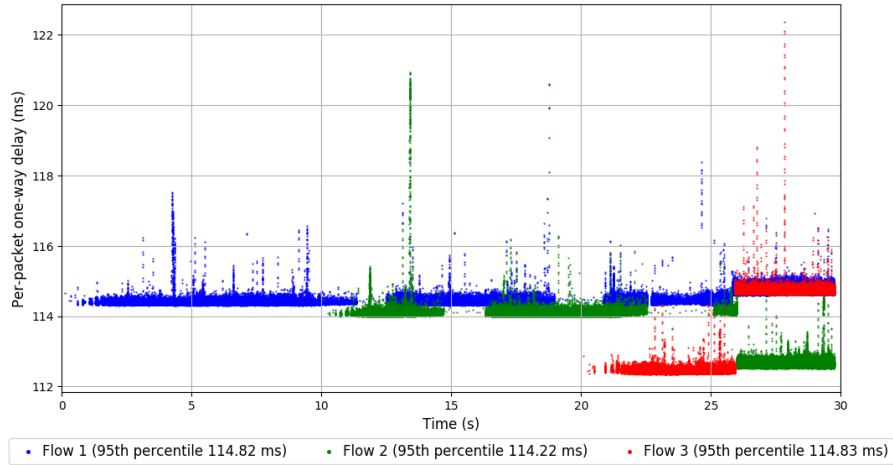
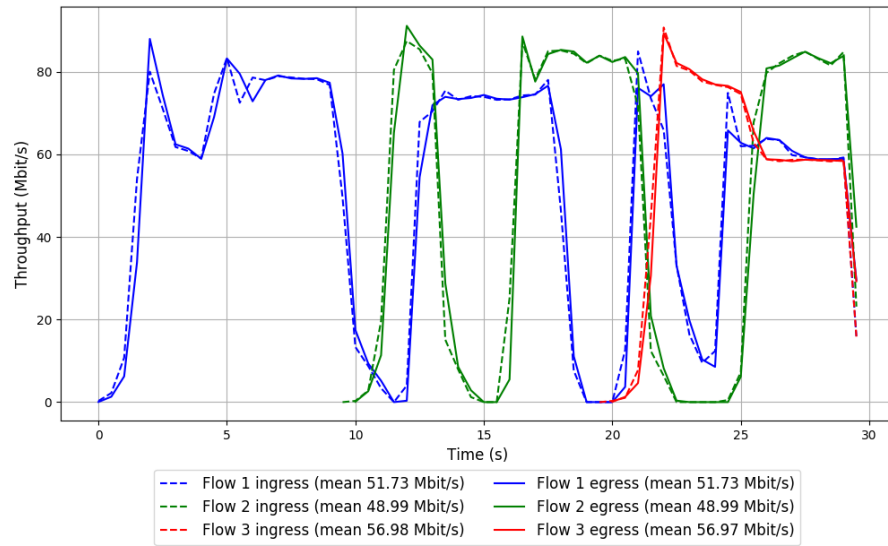
-- Flow 3:

Average throughput: 56.97 Mbit/s

95th percentile per-packet one-way delay: 114.825 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-12 02:11:23

End at: 2017-12-12 02:11:53

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 114.514 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 114.487 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 114.531 ms

Loss rate: 0.00%

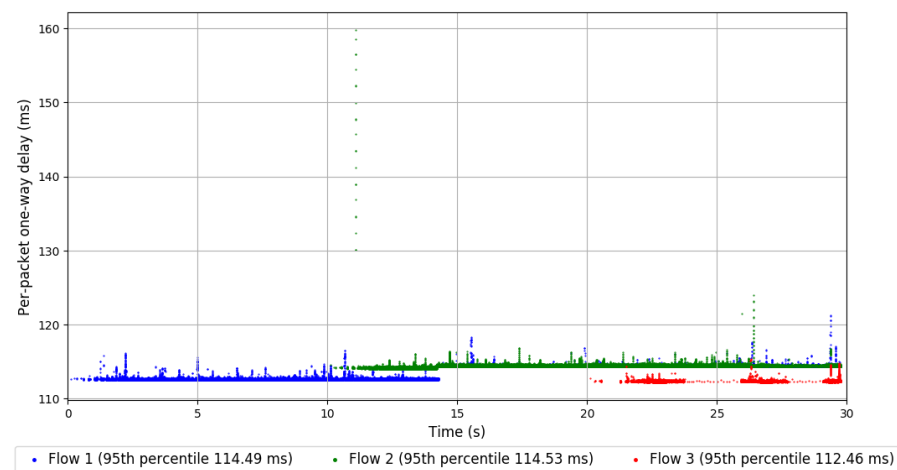
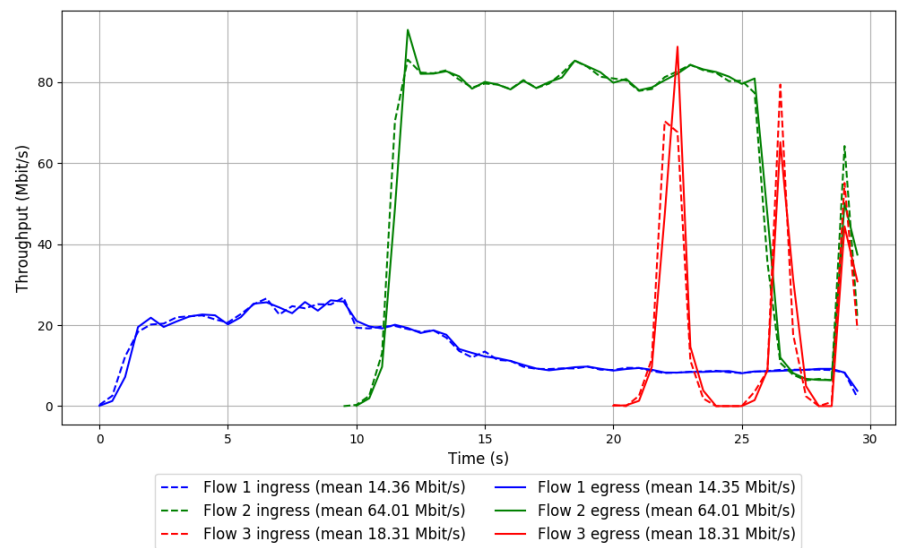
-- Flow 3:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 112.459 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-12 02:24:27

End at: 2017-12-12 02:24:57

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.11 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 62.27 Mbit/s

95th percentile per-packet one-way delay: 112.416 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 112.796 ms

Loss rate: 0.00%

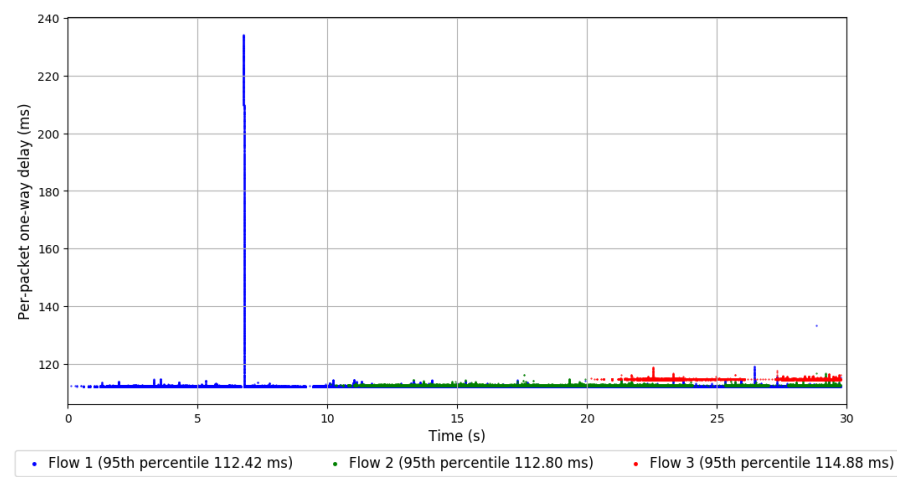
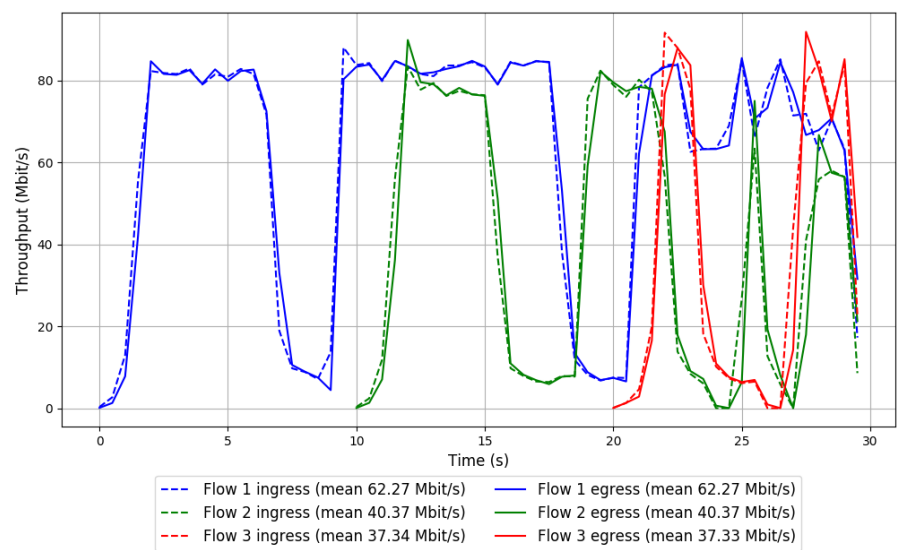
-- Flow 3:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 114.882 ms

Loss rate: 0.06%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-12 02:37:21

End at: 2017-12-12 02:37:51

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.38 Mbit/s

95th percentile per-packet one-way delay: 114.735 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 112.431 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 114.801 ms

Loss rate: 0.00%

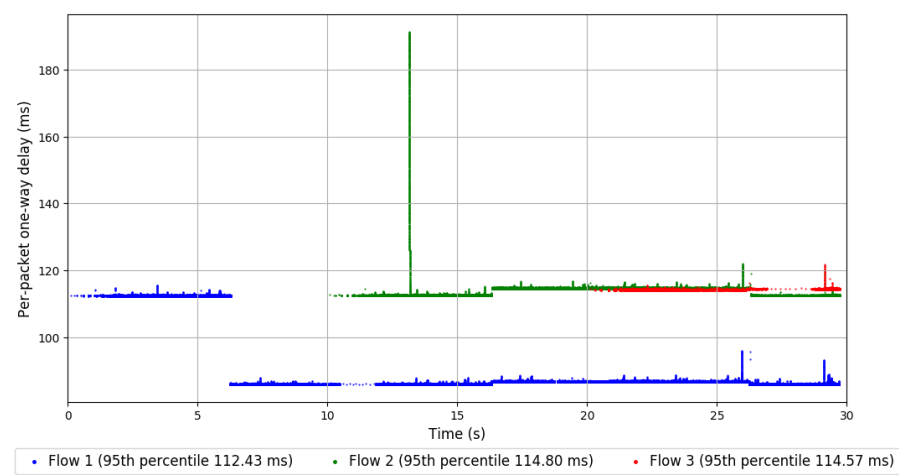
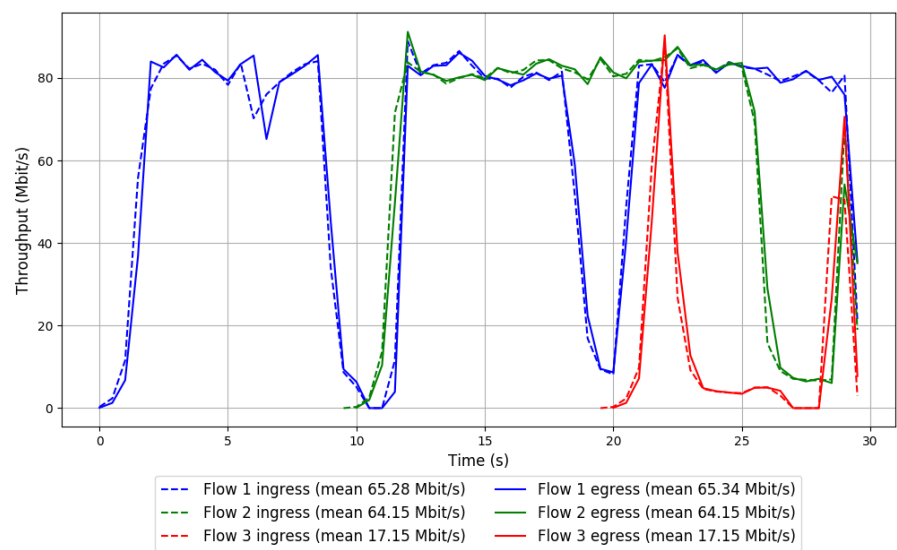
-- Flow 3:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 114.566 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

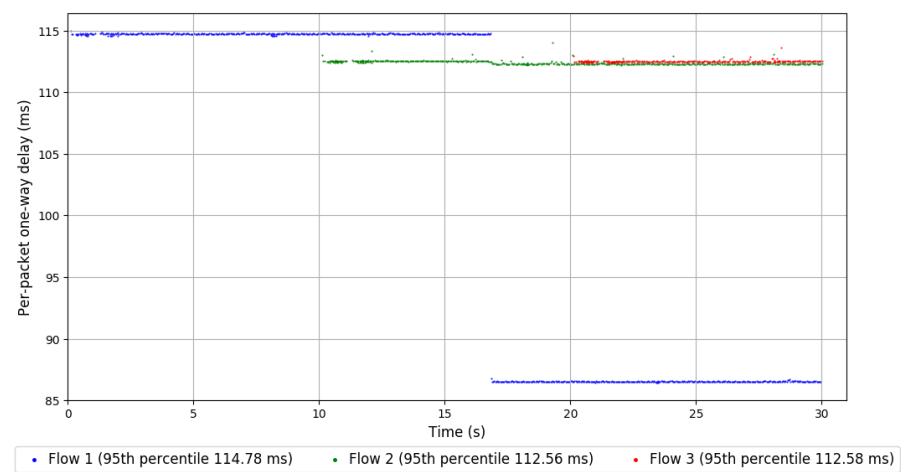
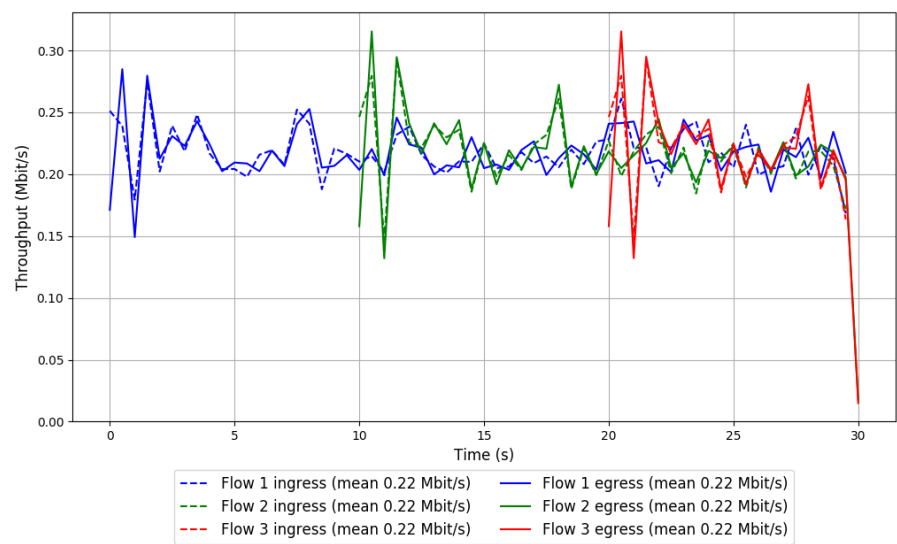


```
Run 1: Statistics of SCReAM

Start at: 2017-12-12 00:38:41
End at: 2017-12-12 00:39:11

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.785 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.562 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.576 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

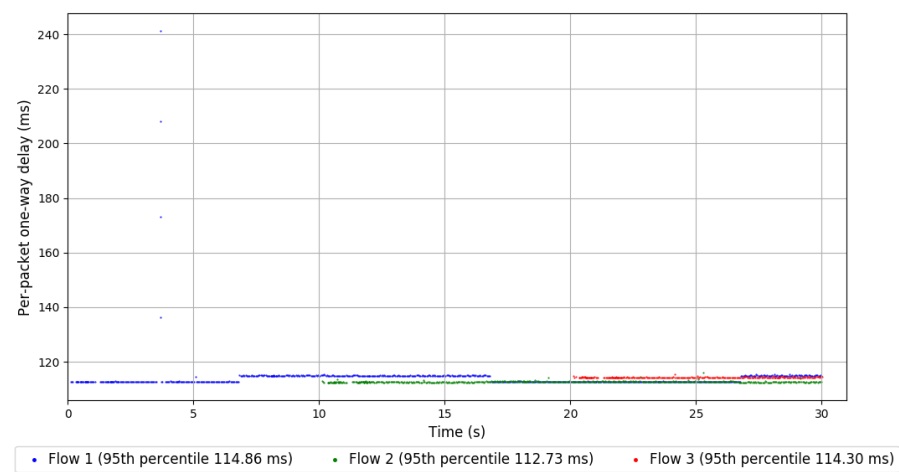
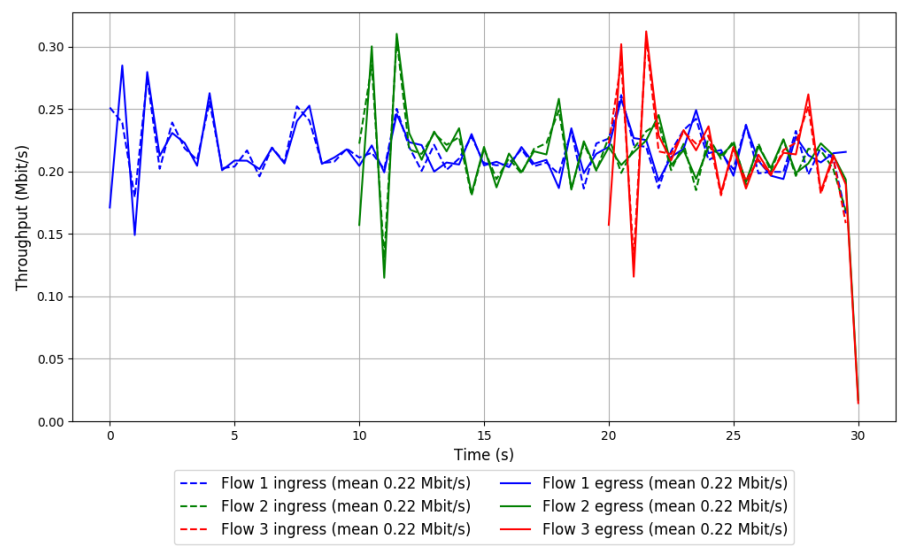


```
Run 2: Statistics of SCReAM

Start at: 2017-12-12 00:51:31
End at: 2017-12-12 00:52:01

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.862 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.302 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-12 01:04:05

End at: 2017-12-12 01:04:35

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 114.942 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 115.522 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.600 ms

Loss rate: 0.00%

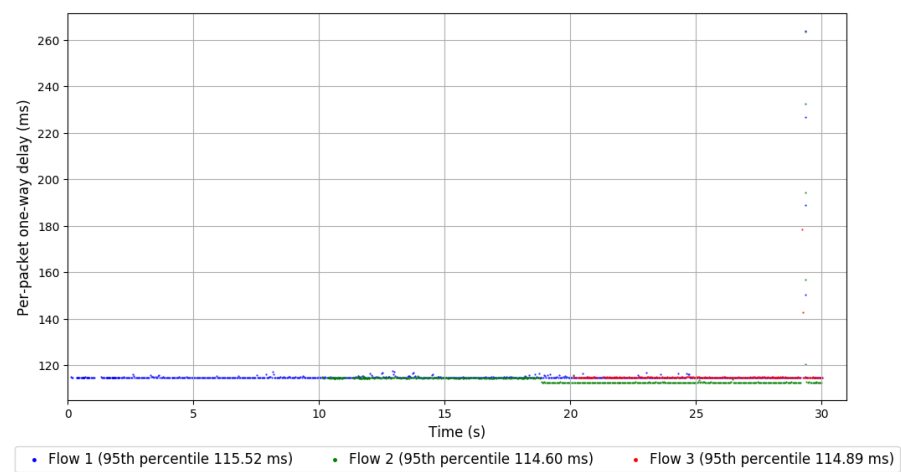
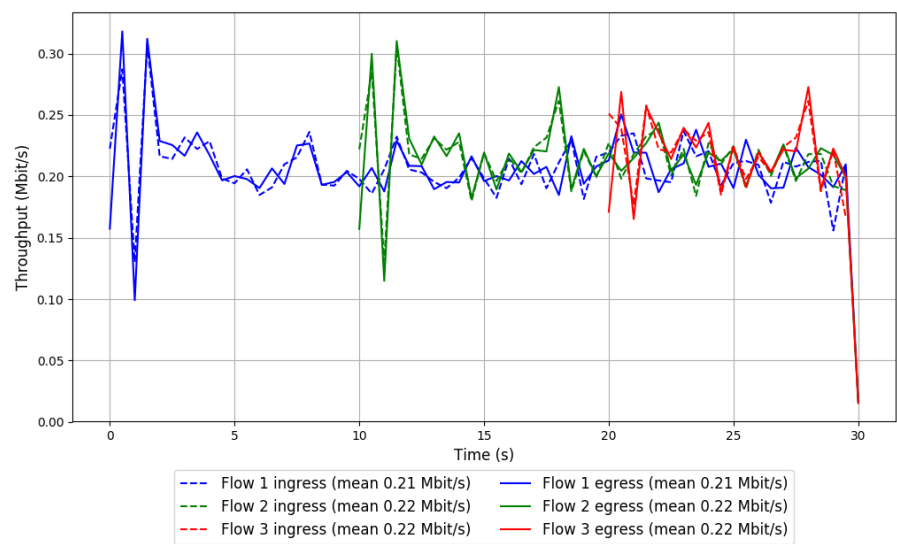
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.895 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link

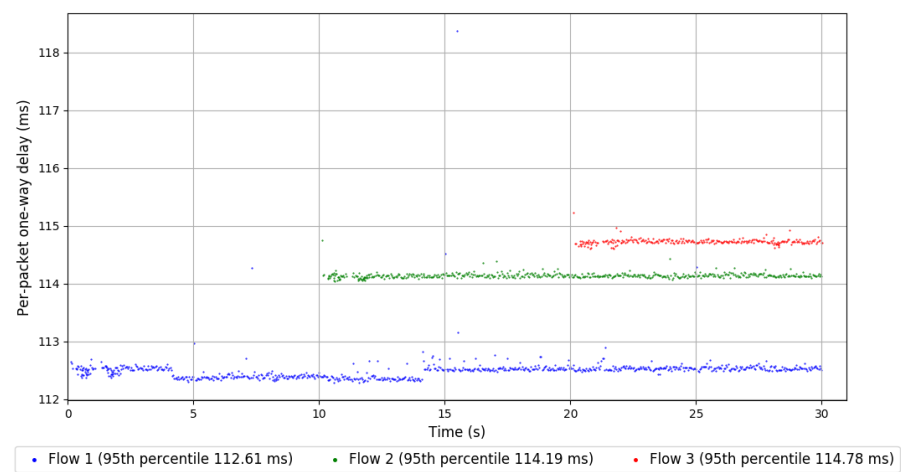
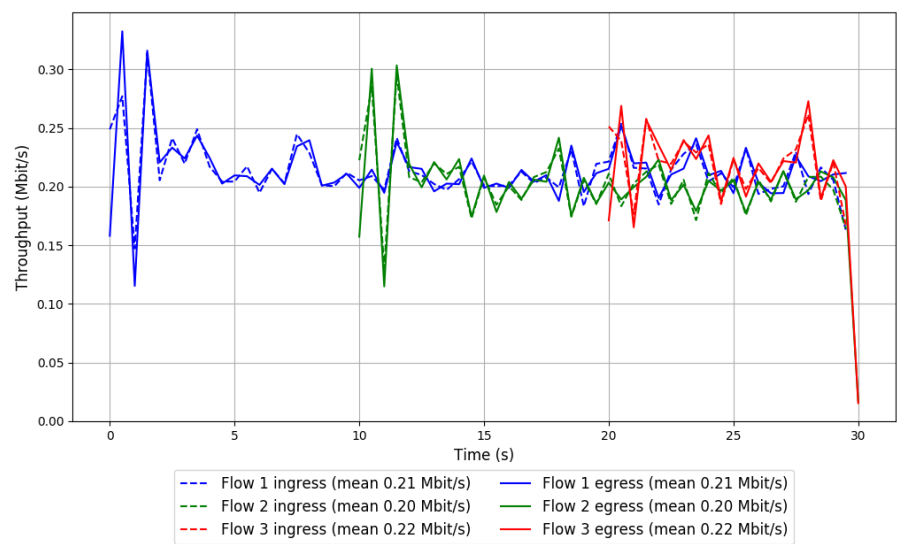


```
Run 4: Statistics of SCReAM

Start at: 2017-12-12 01:17:04
End at: 2017-12-12 01:17:34

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 114.740 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.191 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.778 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

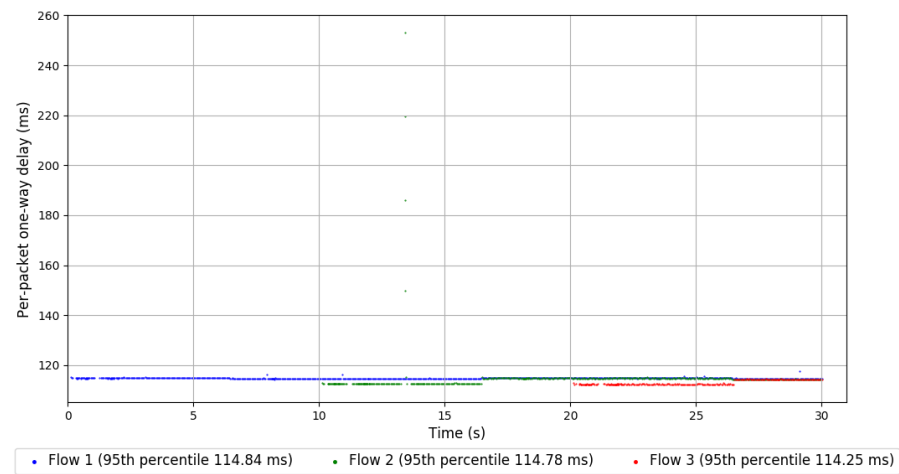
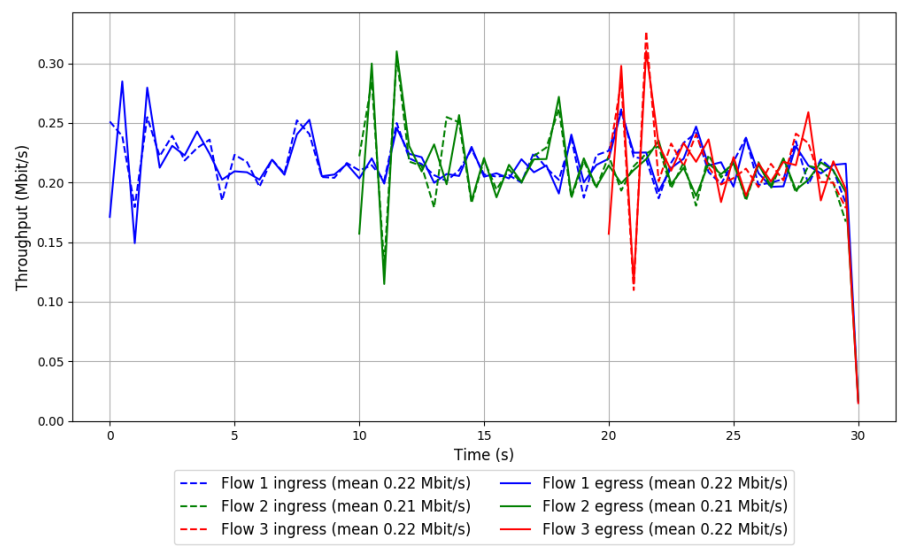


```
Run 5: Statistics of SCReAM

Start at: 2017-12-12 01:30:21
End at: 2017-12-12 01:30:51

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.821 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.844 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.245 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-12 01:43:19

End at: 2017-12-12 01:43:49

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 114.845 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.811 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.869 ms

Loss rate: 0.00%

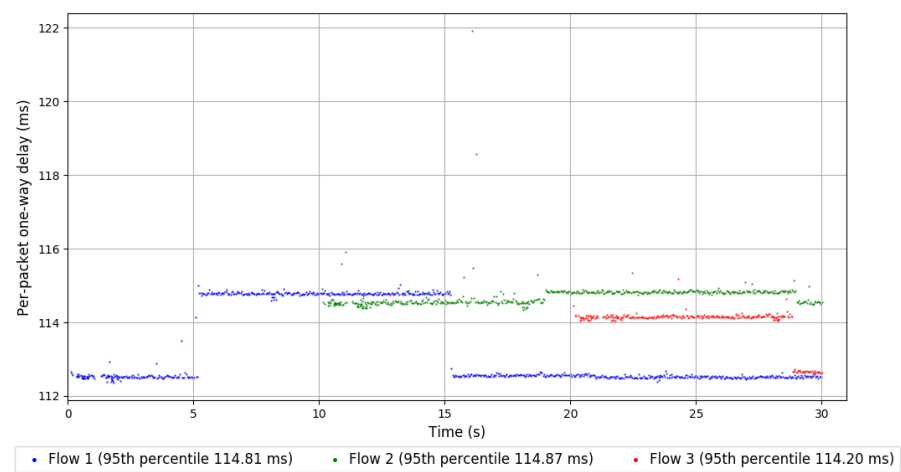
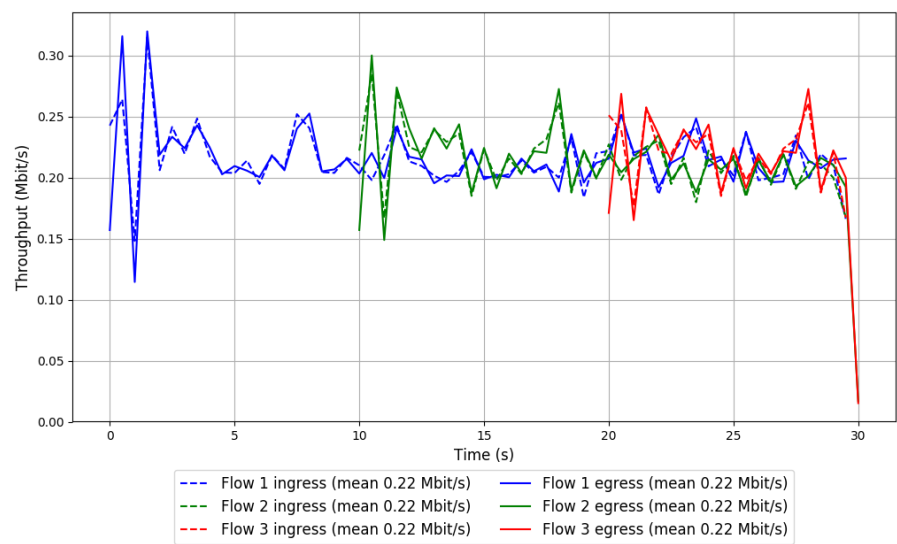
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.204 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

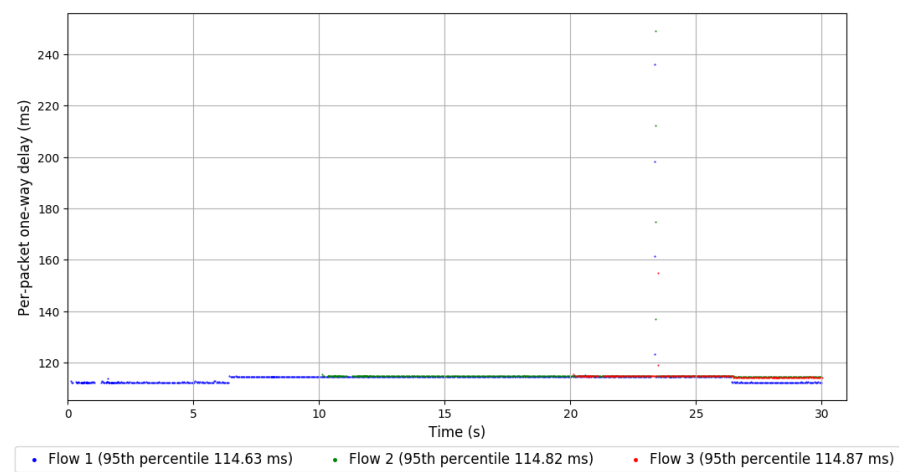
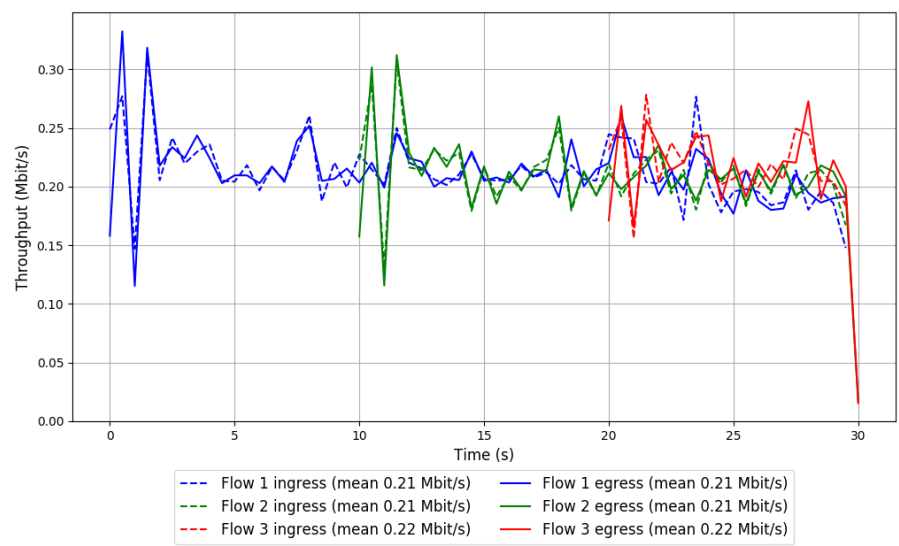


```
Run 7: Statistics of SReAM

Start at: 2017-12-12 01:56:11
End at: 2017-12-12 01:56:41

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.868 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link

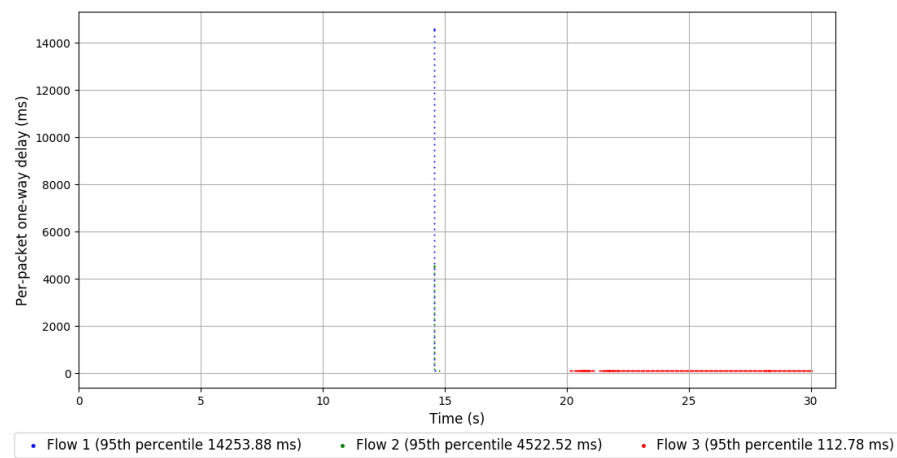
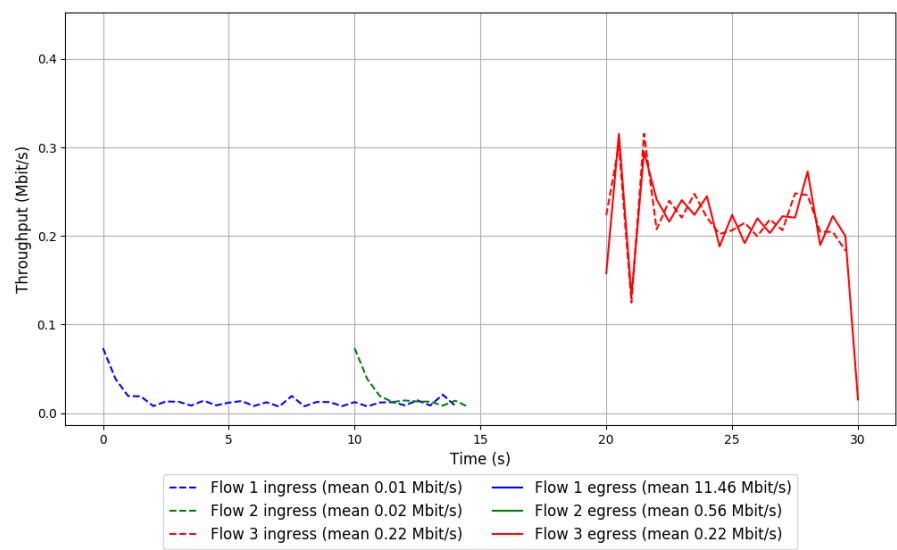


Run 8: Statistics of SReAM

Start at: 2017-12-12 02:09:00

End at: 2017-12-12 02:09:30

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-12 02:22:00

End at: 2017-12-12 02:22:30

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 114.855 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.412 ms

Loss rate: 0.00%

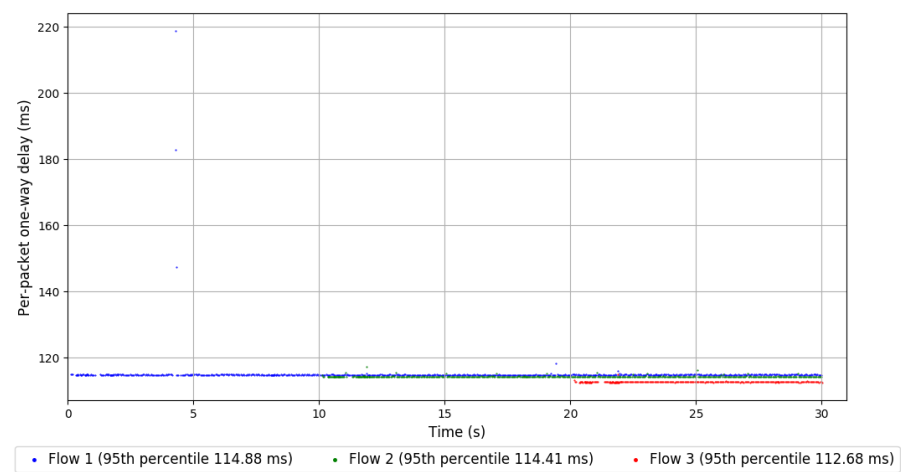
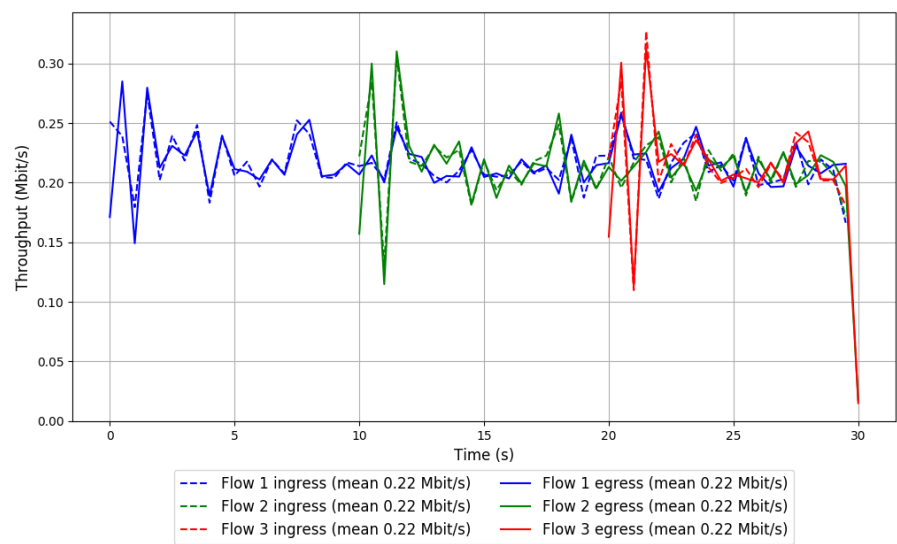
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.676 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

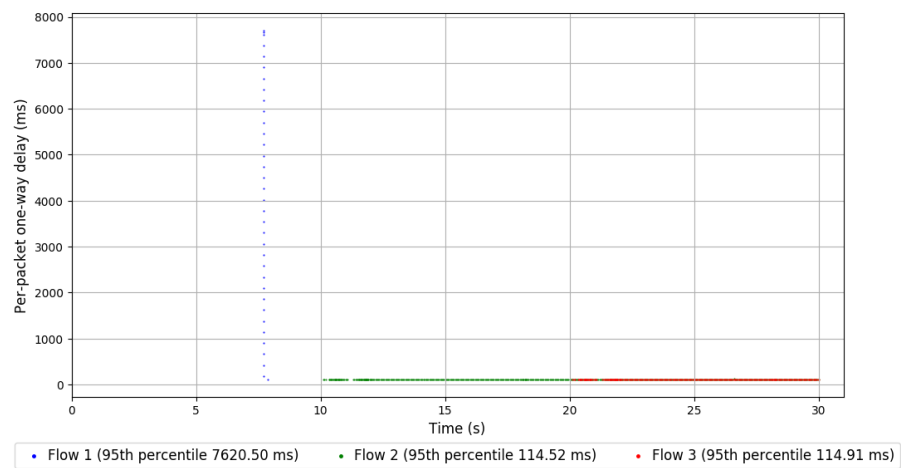
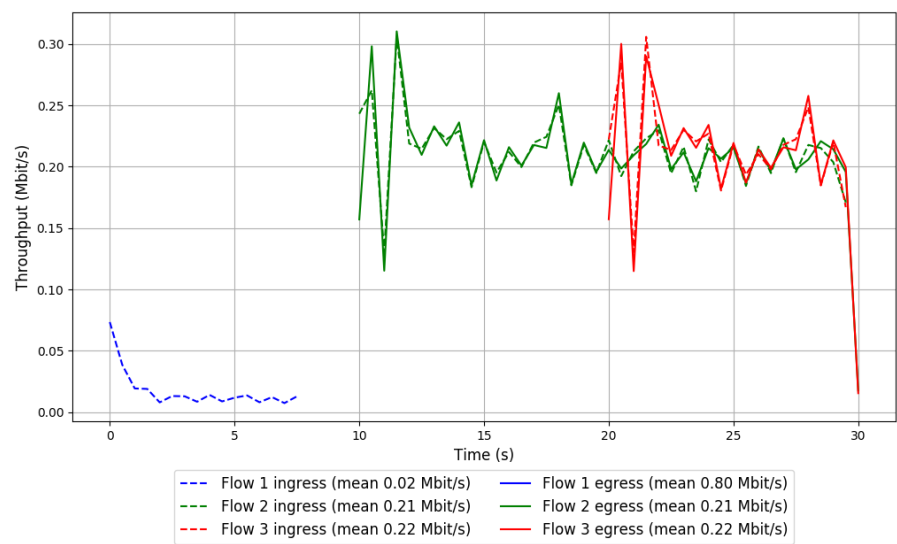


Run 10: Statistics of SCReAM

Start at: 2017-12-12 02:35:01

End at: 2017-12-12 02:35:31

Run 10: Report of SReAM — Data Link

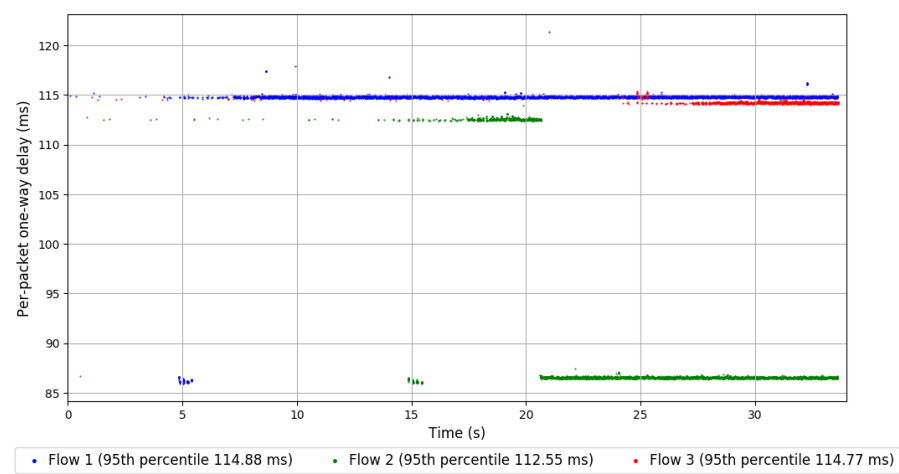
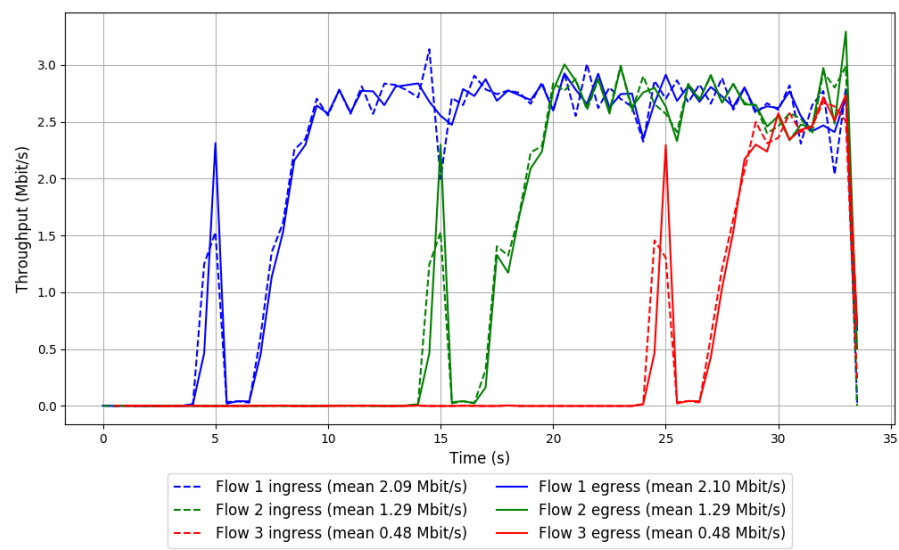


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-12 00:40:21
End at: 2017-12-12 00:40:51

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 114.860 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 114.884 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 112.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 114.770 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-12 00:53:07

End at: 2017-12-12 00:53:37

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 114.827 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 114.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 114.817 ms

Loss rate: 0.00%

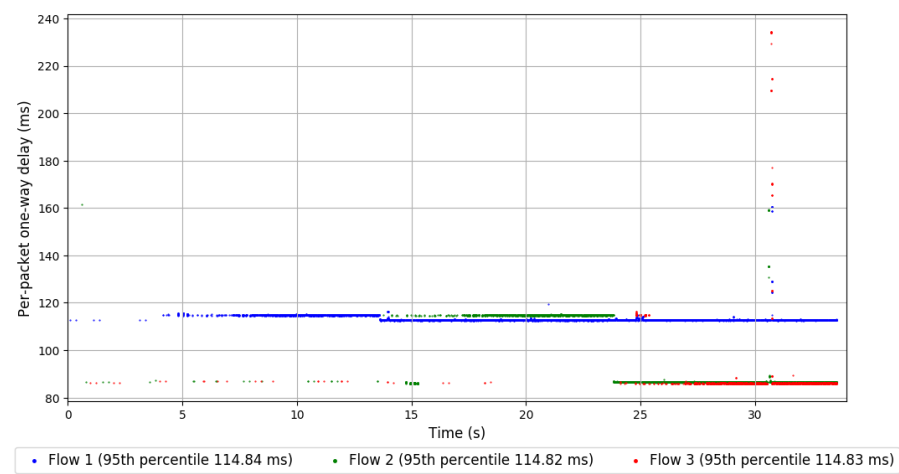
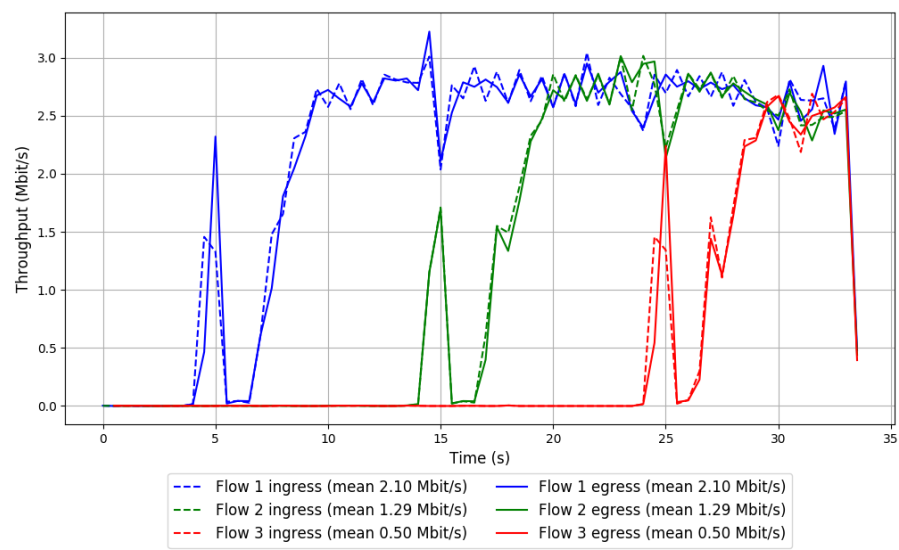
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 114.826 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-12 01:05:44

End at: 2017-12-12 01:06:14

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 114.247 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.636 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 114.399 ms

Loss rate: 0.00%

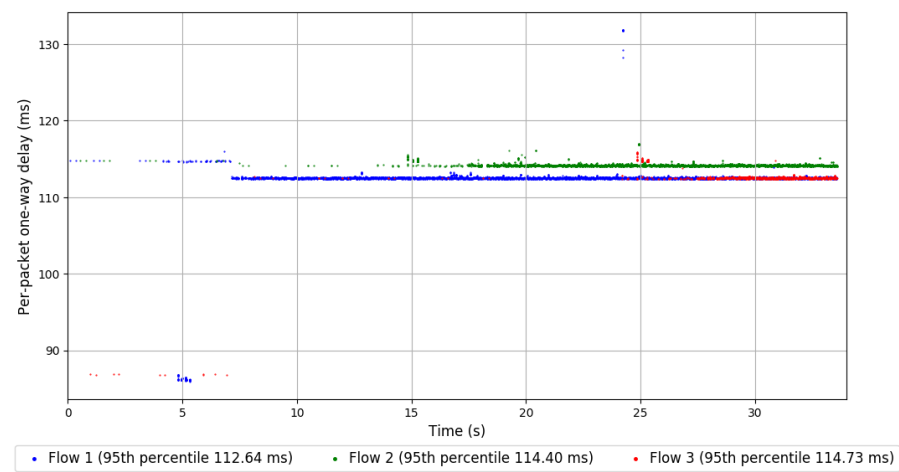
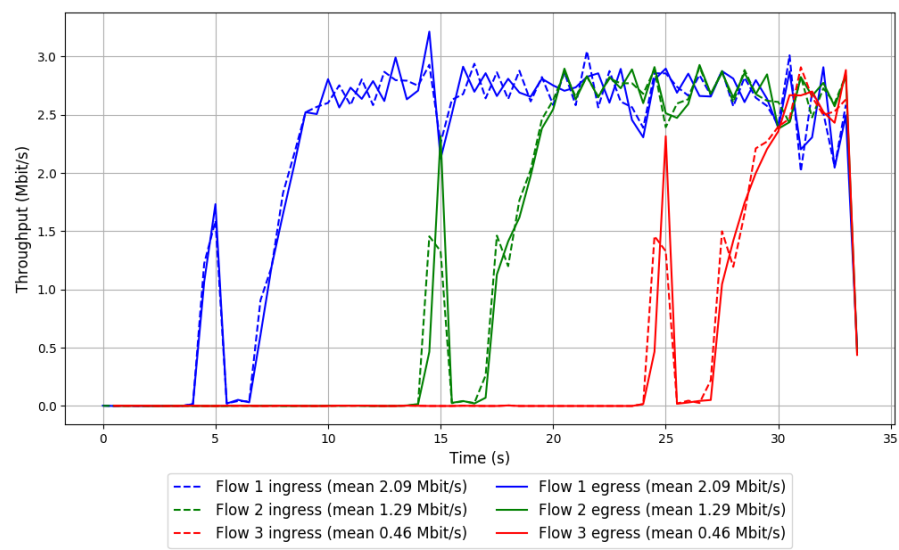
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 114.726 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-12 01:18:51

End at: 2017-12-12 01:19:21

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 114.790 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 114.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 112.867 ms

Loss rate: 0.00%

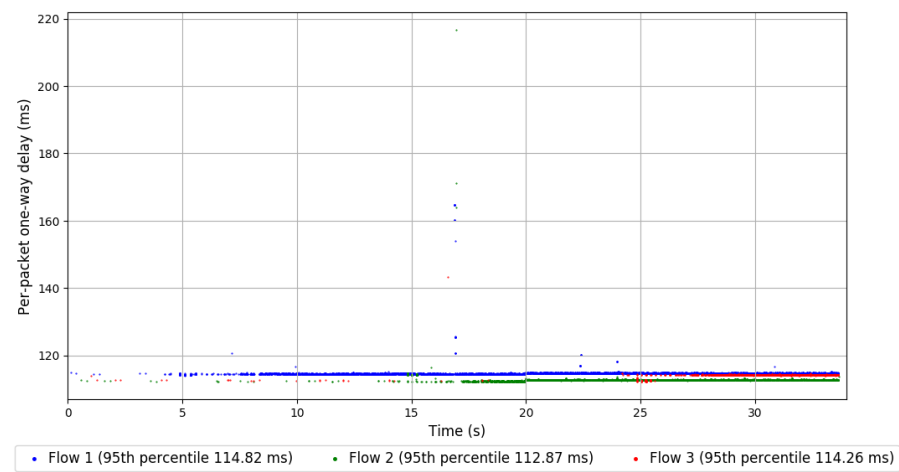
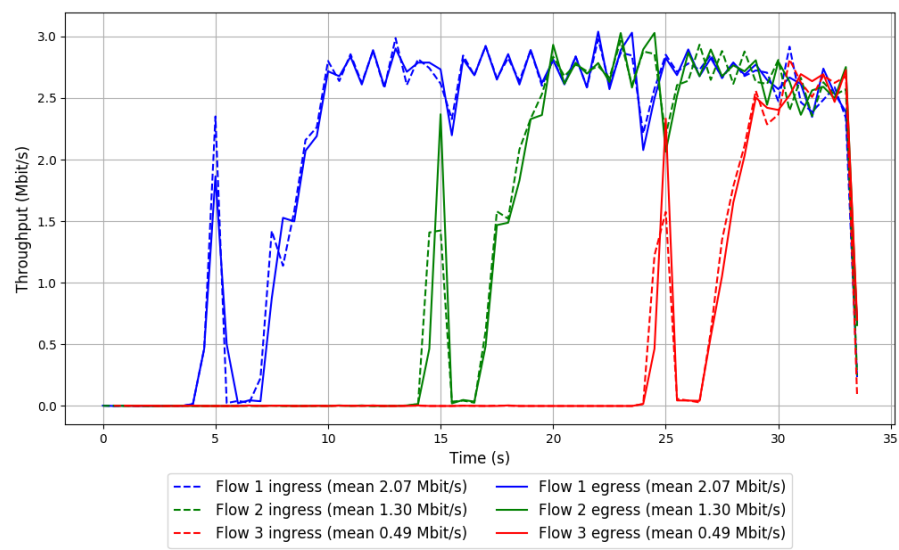
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.262 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-12 01:32:04

End at: 2017-12-12 01:32:34

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 114.763 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 114.271 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 114.806 ms

Loss rate: 0.00%

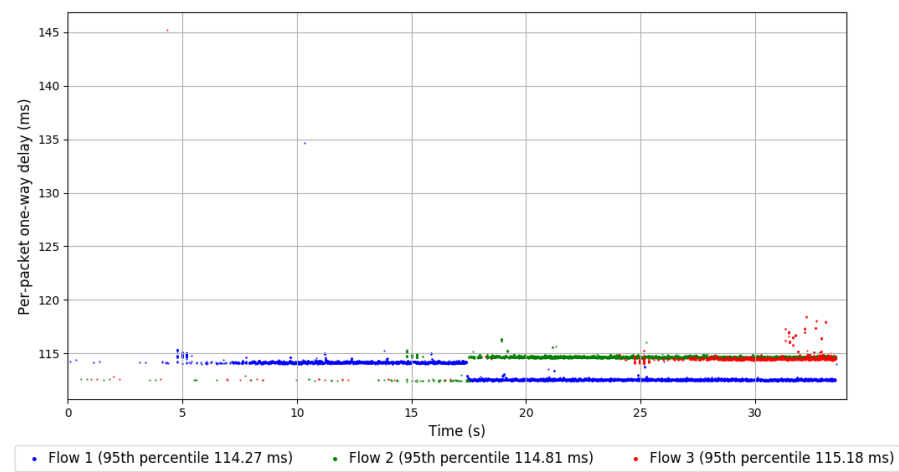
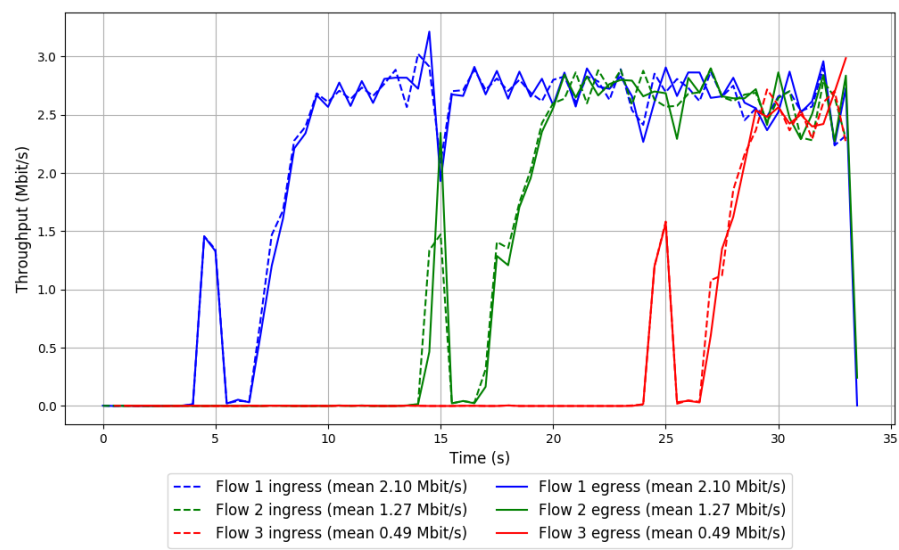
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 115.181 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-12 01:44:56

End at: 2017-12-12 01:45:26

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 114.340 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 112.496 ms

Loss rate: 0.00%

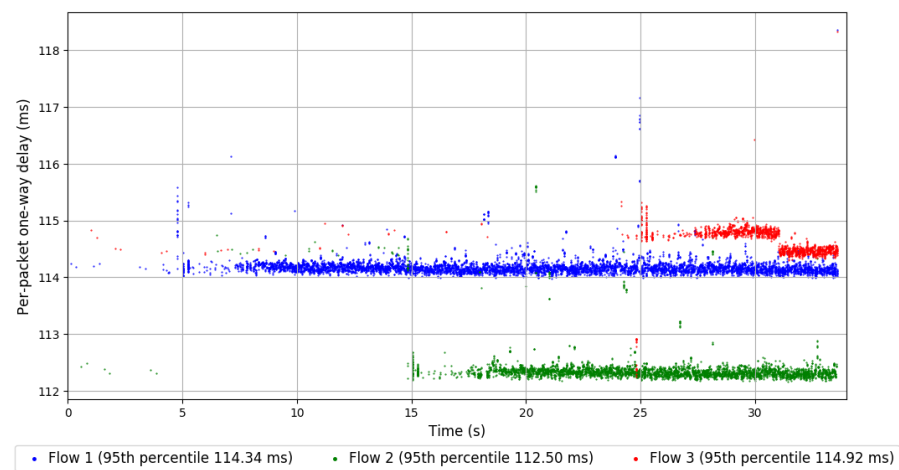
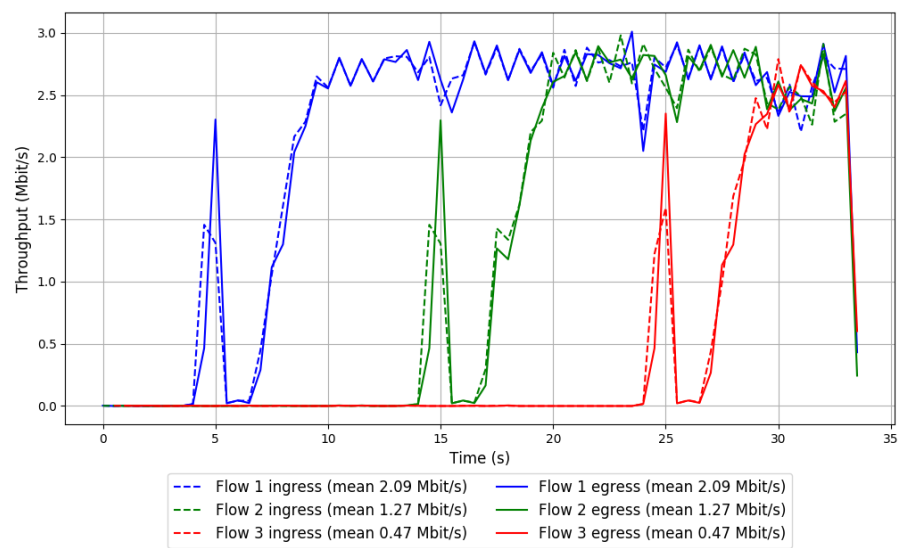
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 114.918 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-12 01:57:55

End at: 2017-12-12 01:58:25

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 114.873 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 114.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 114.876 ms

Loss rate: 0.00%

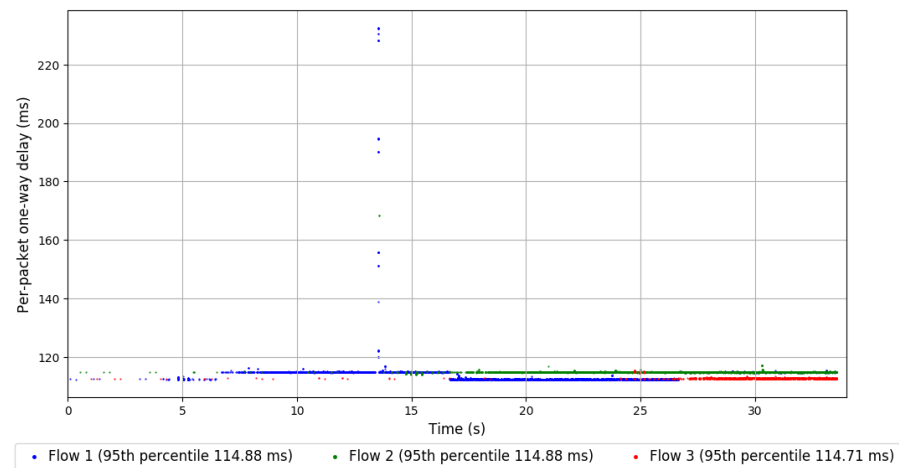
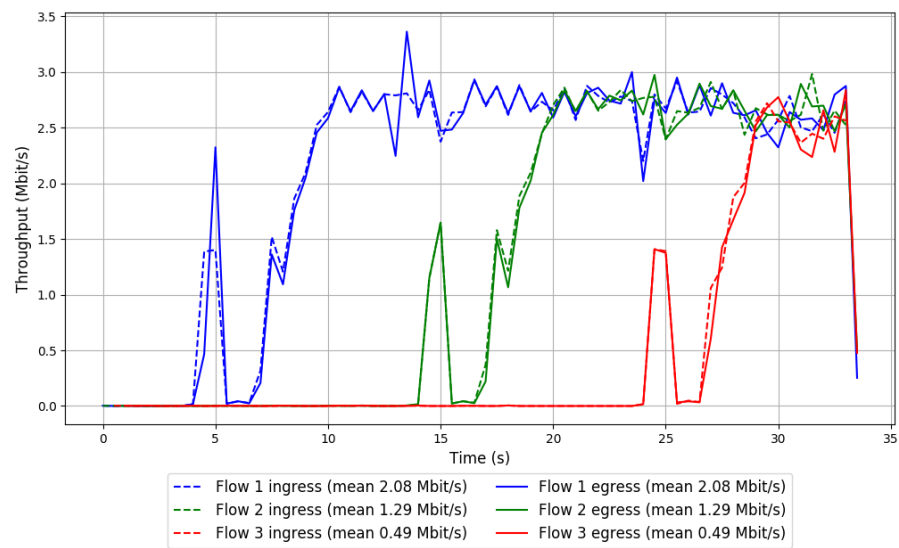
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.709 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-12 02:10:37

End at: 2017-12-12 02:11:07

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 114.390 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 114.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 114.405 ms

Loss rate: 0.02%

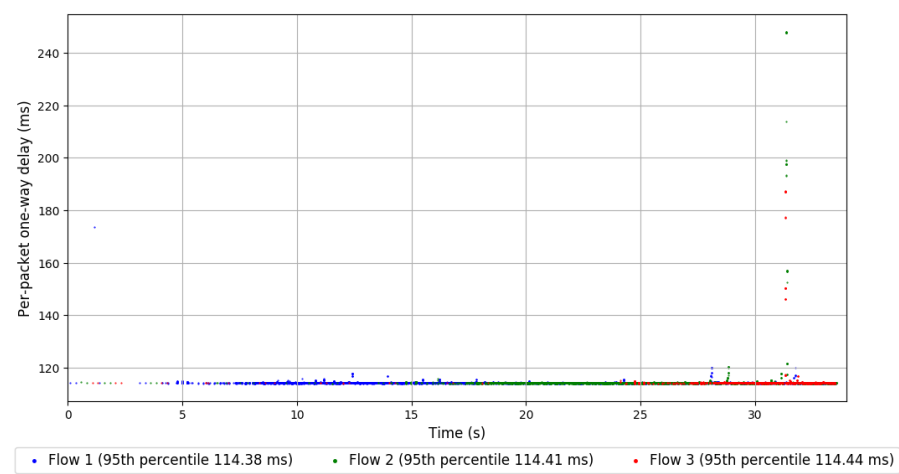
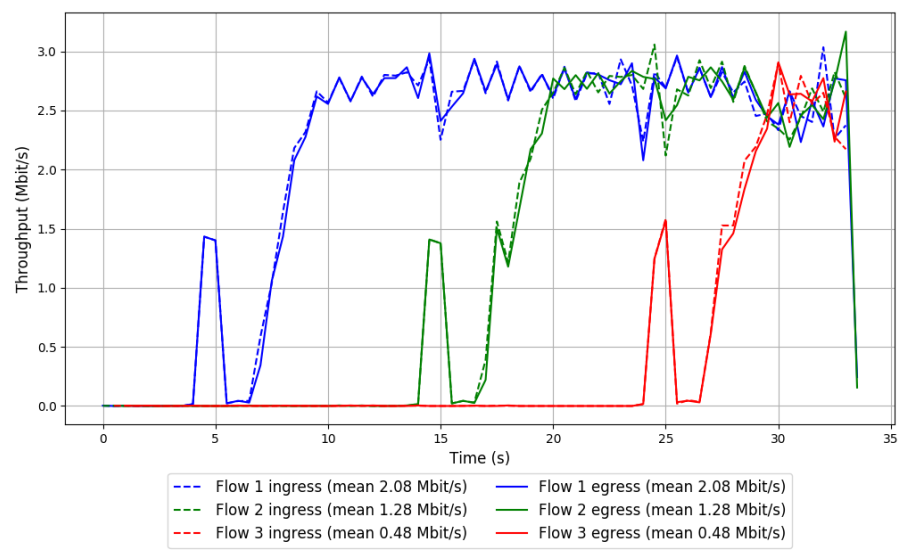
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 114.439 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-12 02:23:41

End at: 2017-12-12 02:24:11

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 114.861 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 114.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 114.927 ms

Loss rate: 0.00%

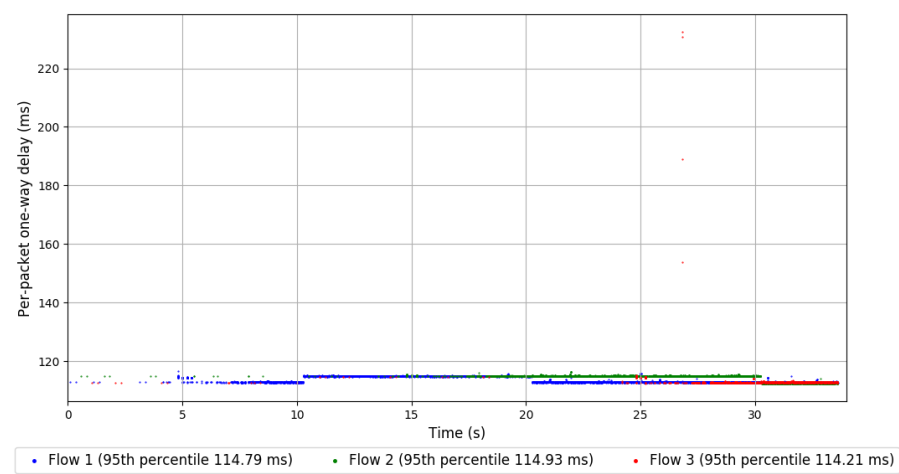
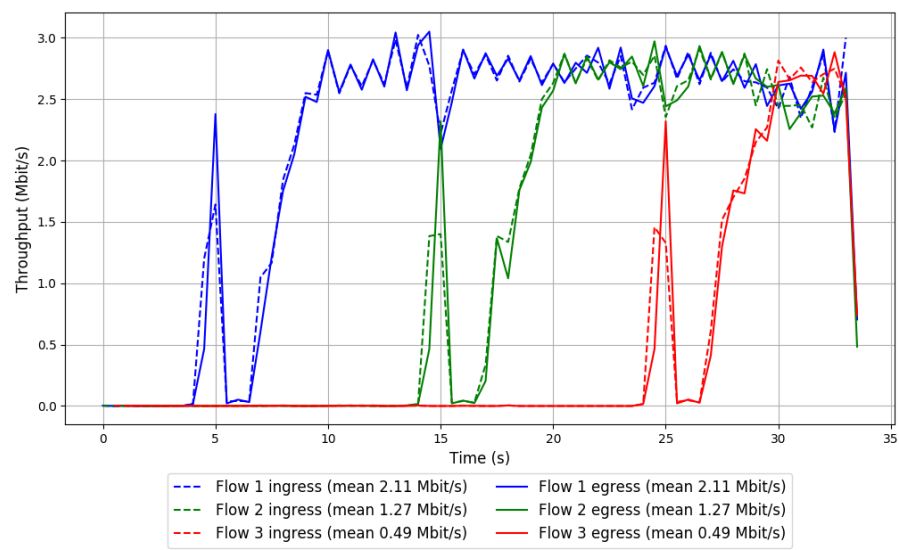
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.210 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-12 02:36:36

End at: 2017-12-12 02:37:06

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 115.359 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 115.846 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 0.00%

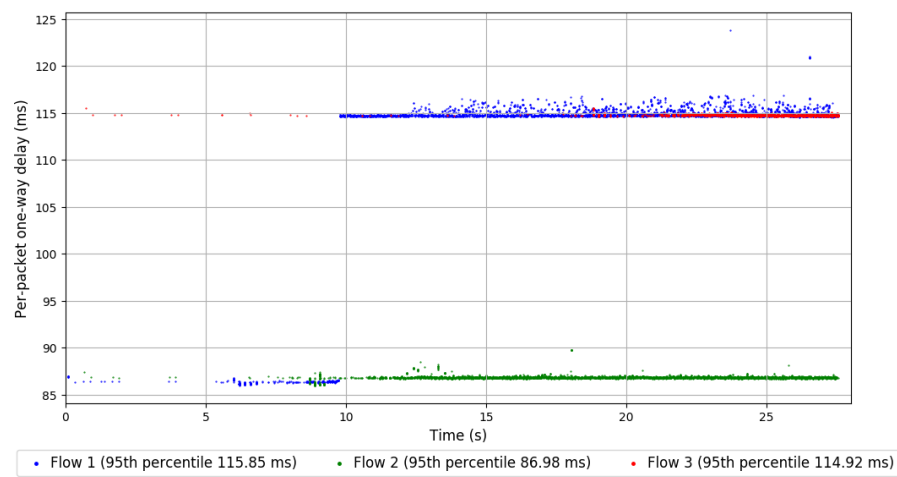
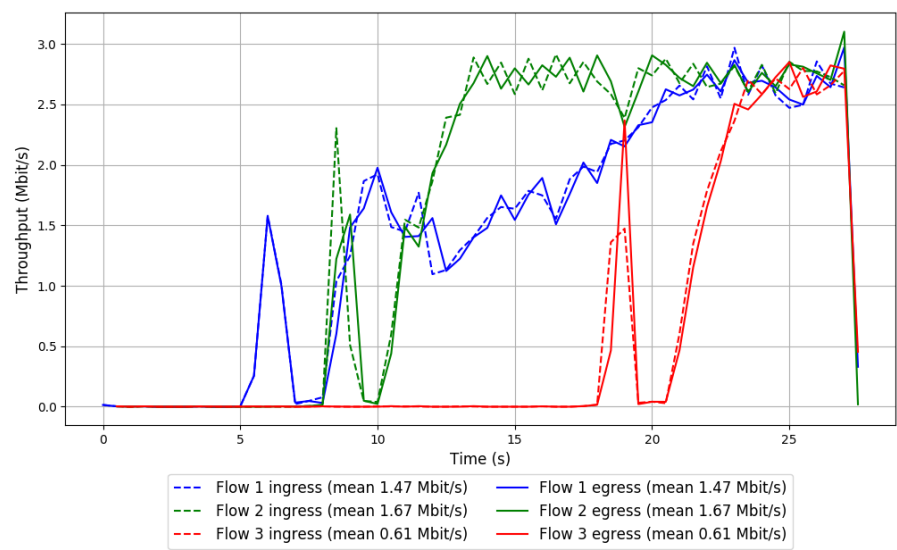
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 114.920 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

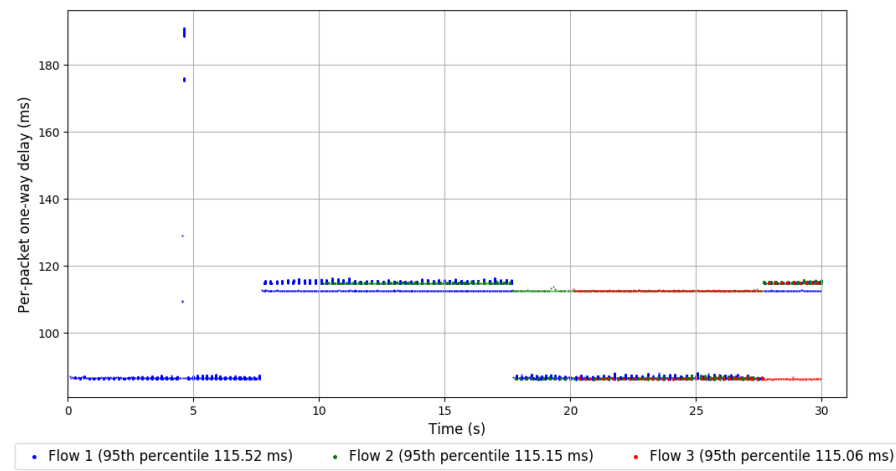
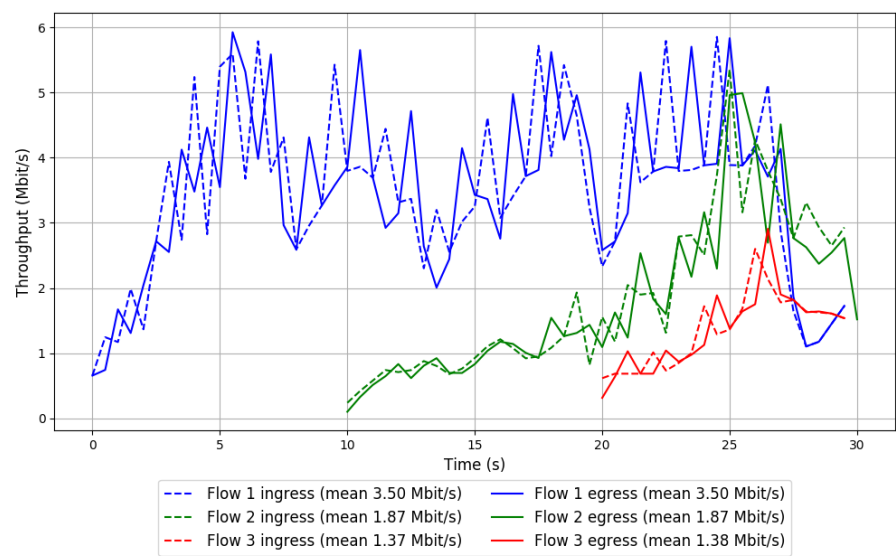


```
Run 1: Statistics of Sprout

Start at: 2017-12-12 00:42:00
End at: 2017-12-12 00:42:30

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 115.433 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 115.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 115.151 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 115.055 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-12 00:54:46

End at: 2017-12-12 00:55:16

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 114.789 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 114.895 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 112.456 ms

Loss rate: 0.00%

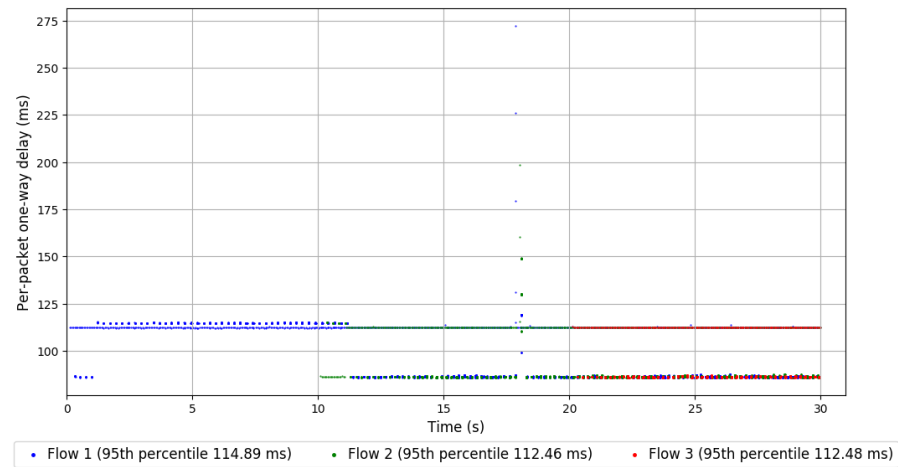
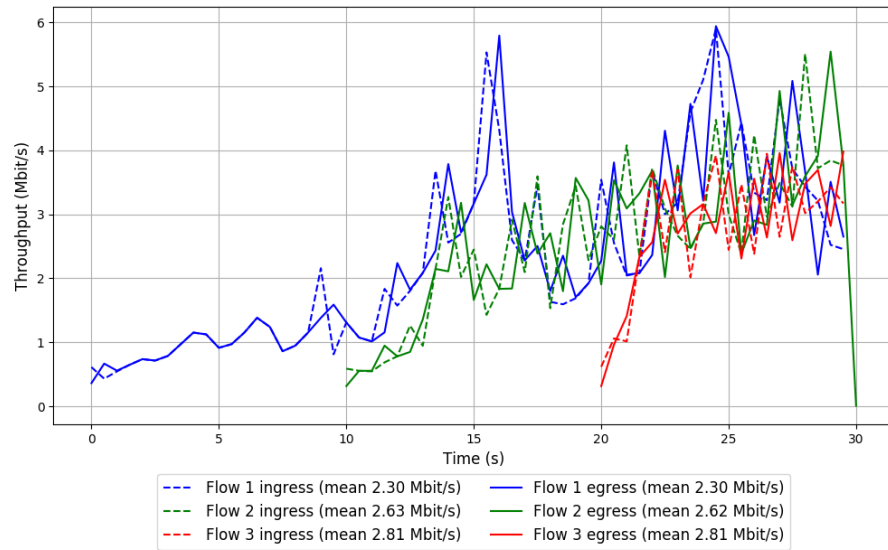
-- Flow 3:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 112.476 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-12 01:07:23

End at: 2017-12-12 01:07:53

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 115.203 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 115.281 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 115.083 ms

Loss rate: 0.00%

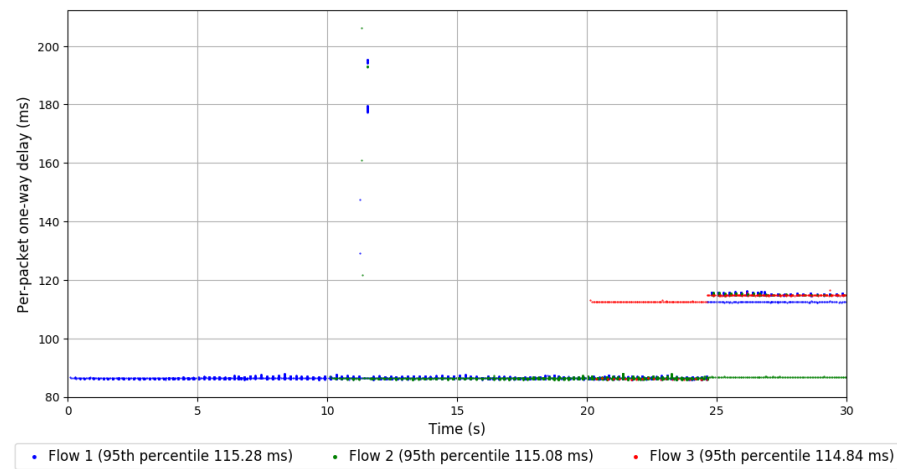
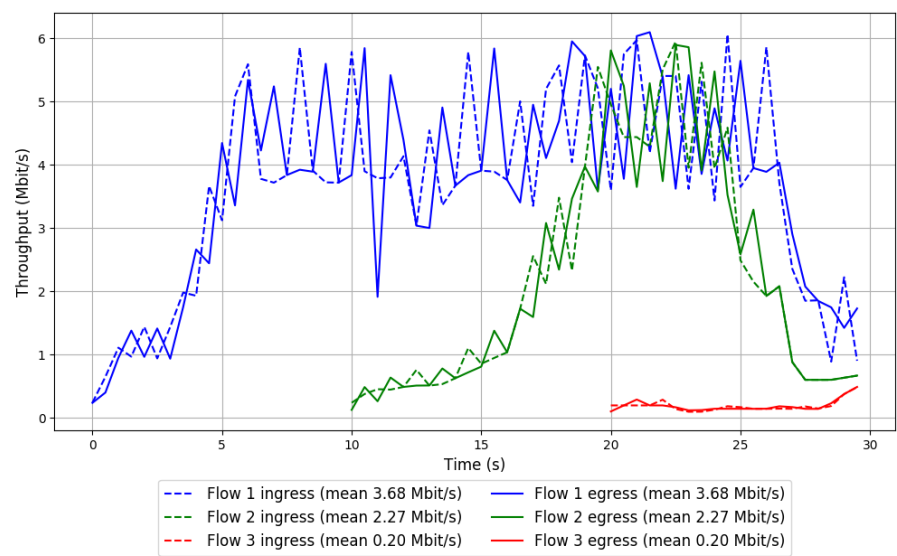
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 114.845 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-12 01:20:30

End at: 2017-12-12 01:21:00

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 115.135 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 115.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 114.954 ms

Loss rate: 0.03%

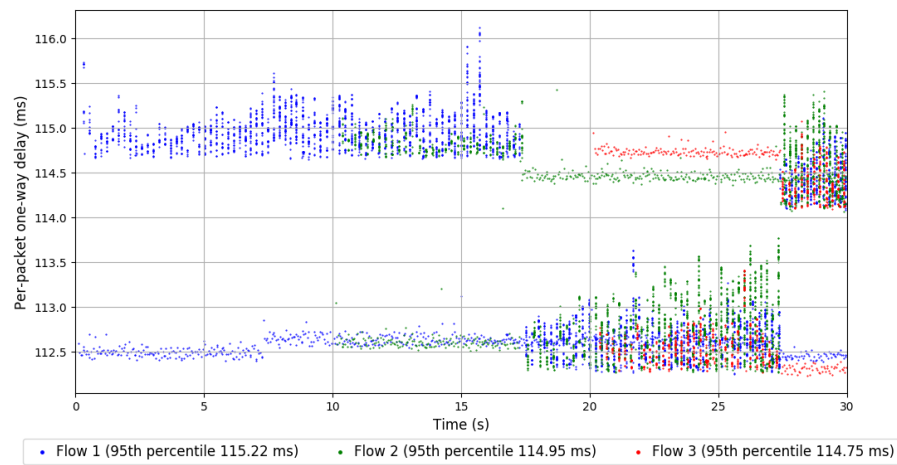
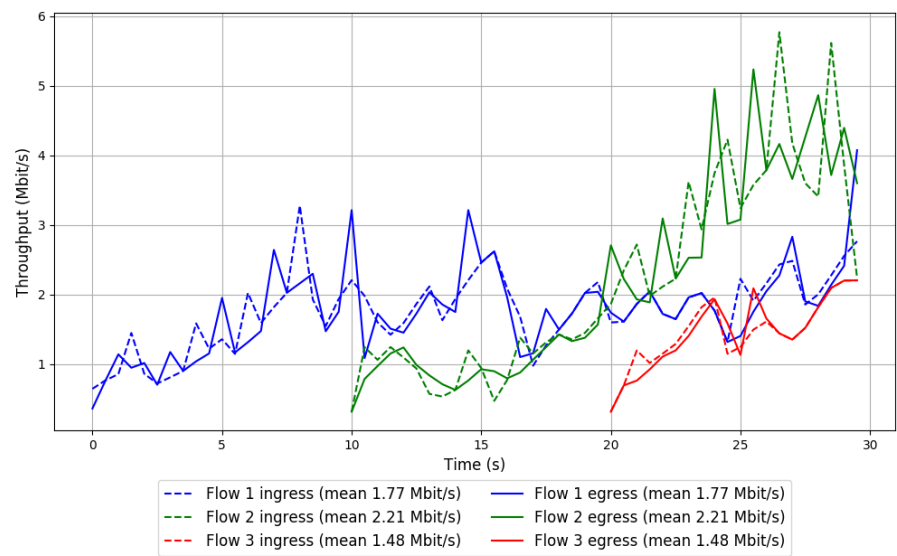
-- Flow 3:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 114.745 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-12 01:33:44

End at: 2017-12-12 01:34:14

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 115.578 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 115.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 115.129 ms

Loss rate: 0.00%

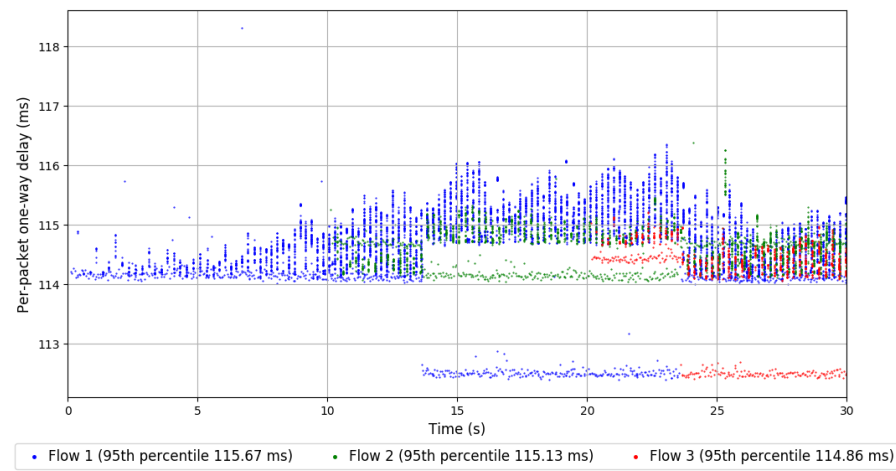
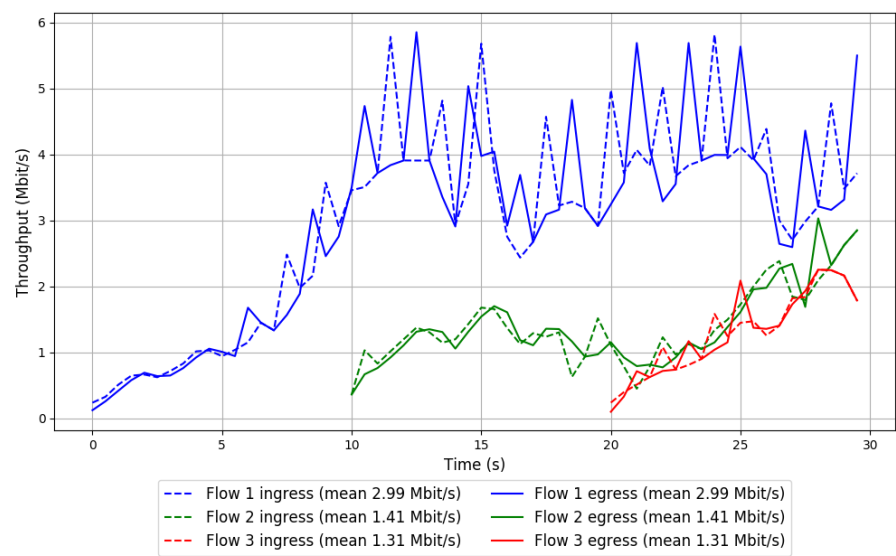
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 114.858 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-12 01:46:36

End at: 2017-12-12 01:47:06

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 115.294 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 115.167 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 115.443 ms

Loss rate: 0.00%

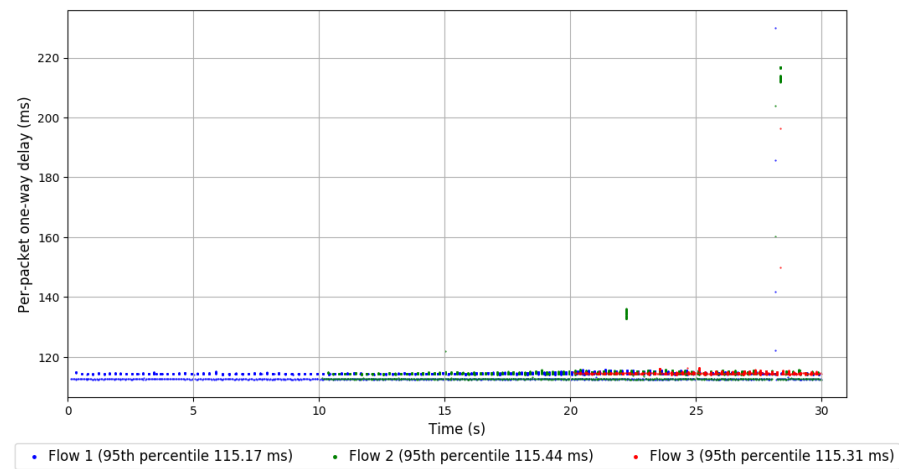
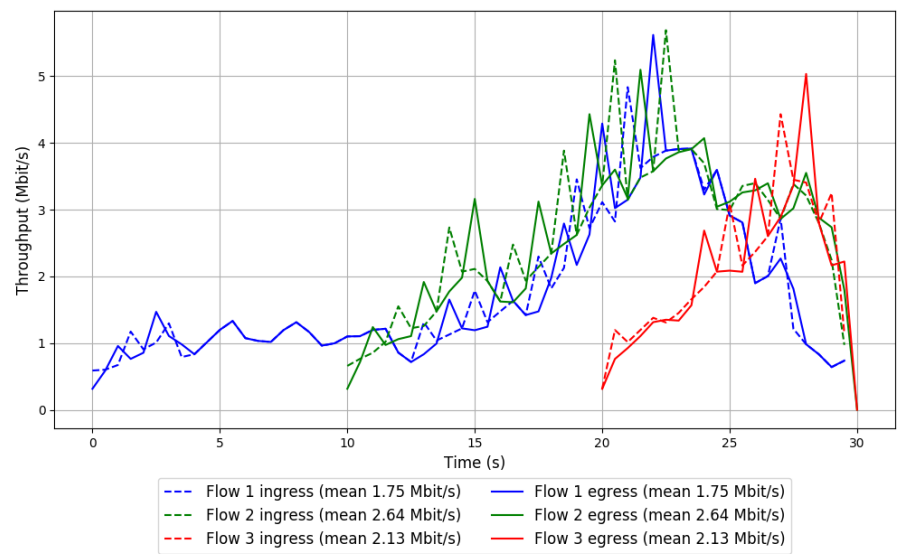
-- Flow 3:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 115.314 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-12 01:59:35

End at: 2017-12-12 02:00:05

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 115.389 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 115.579 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 115.076 ms

Loss rate: 0.00%

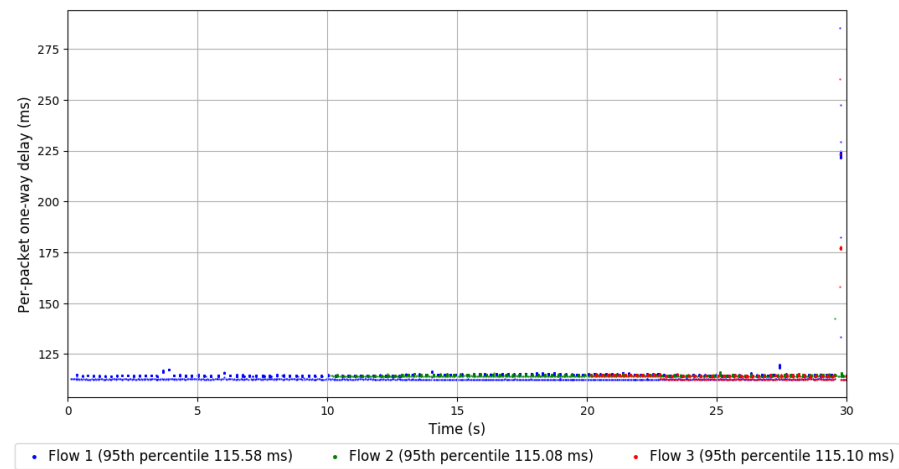
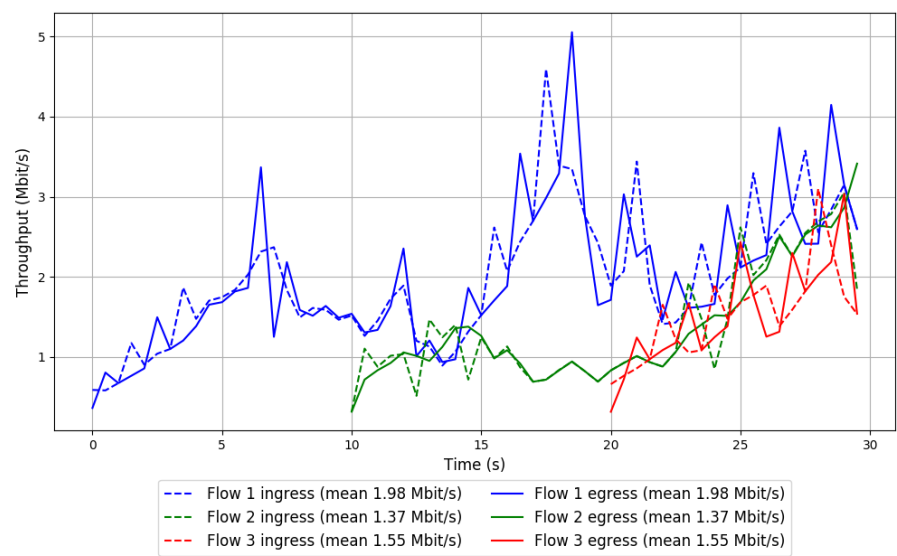
-- Flow 3:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 115.097 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-12 02:12:14

End at: 2017-12-12 02:12:44

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 115.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 115.158 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 115.034 ms

Loss rate: 0.00%

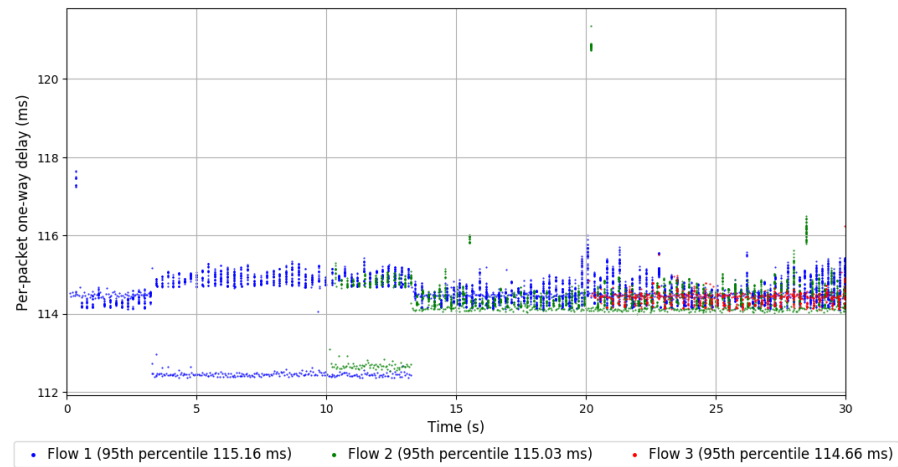
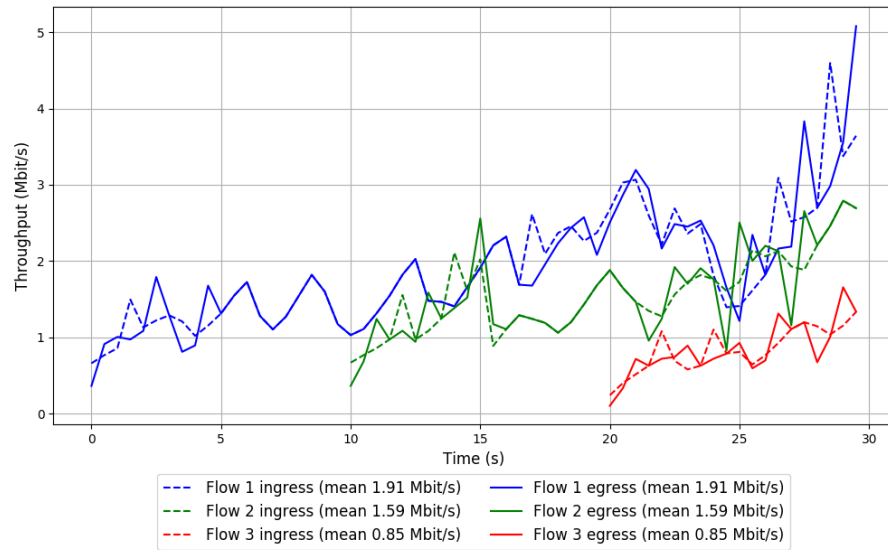
-- Flow 3:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 114.657 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-12 02:25:20

End at: 2017-12-12 02:25:50

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 115.708 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 115.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 115.287 ms

Loss rate: 0.00%

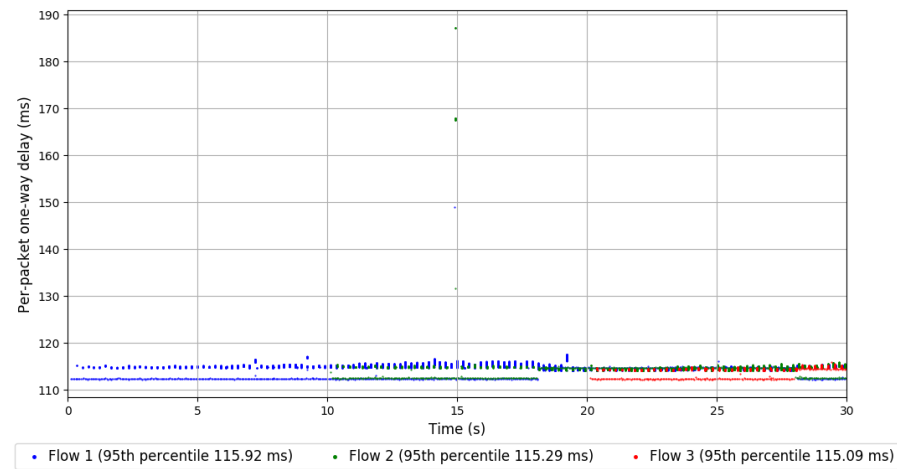
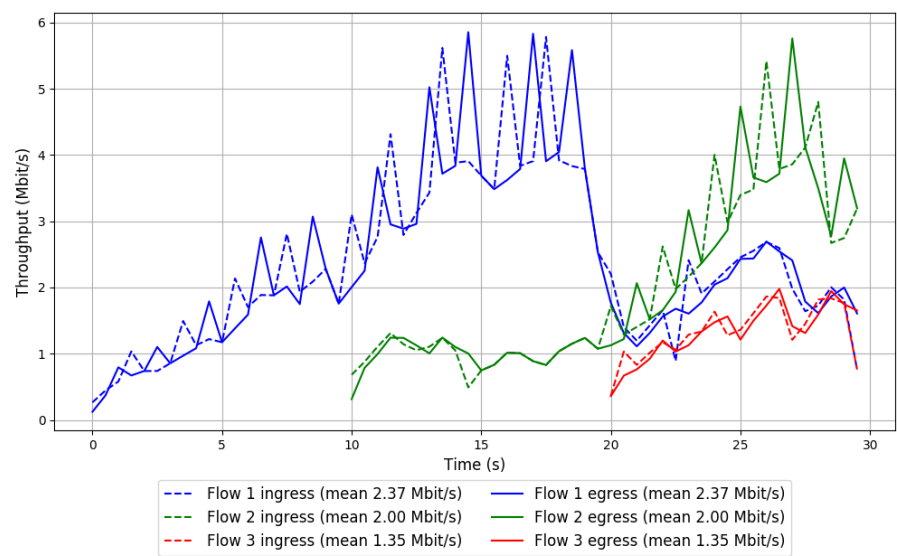
-- Flow 3:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 115.089 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-12 02:38:14

End at: 2017-12-12 02:38:44

Below is generated by plot.py at 2017-12-12 04:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 115.060 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.886 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 114.999 ms

Loss rate: 0.00%

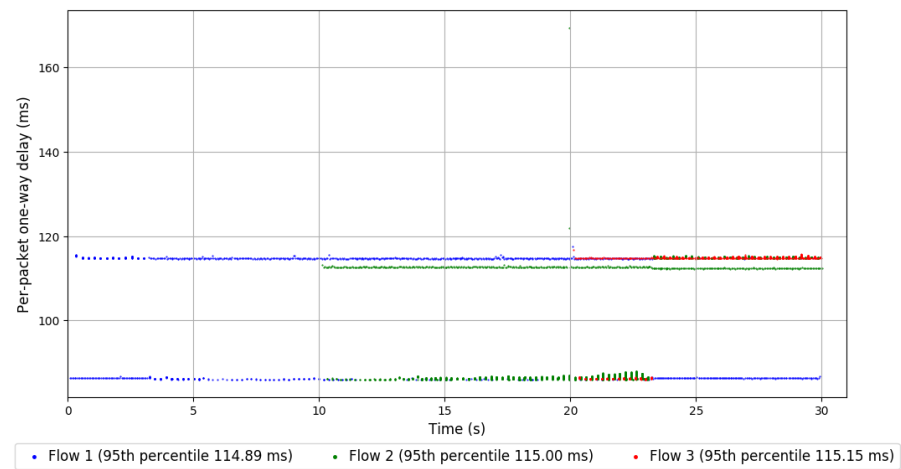
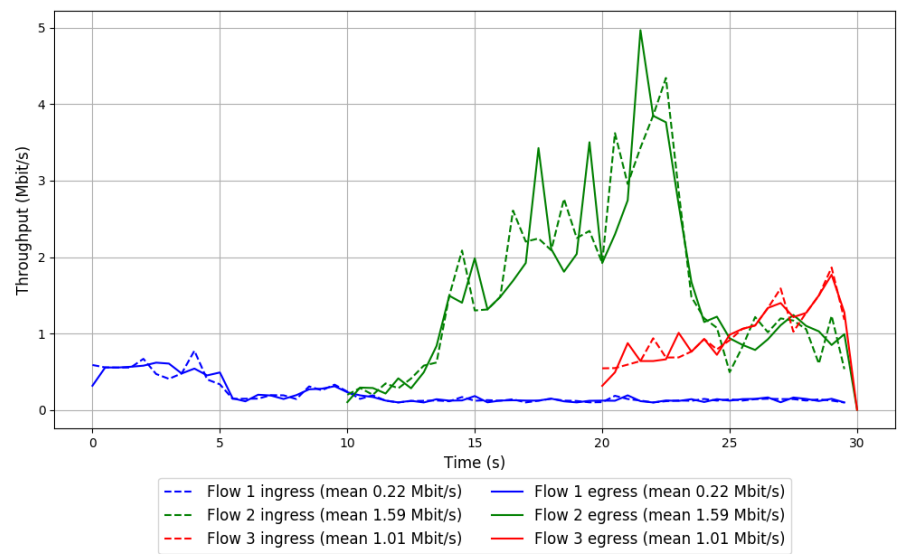
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 115.151 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

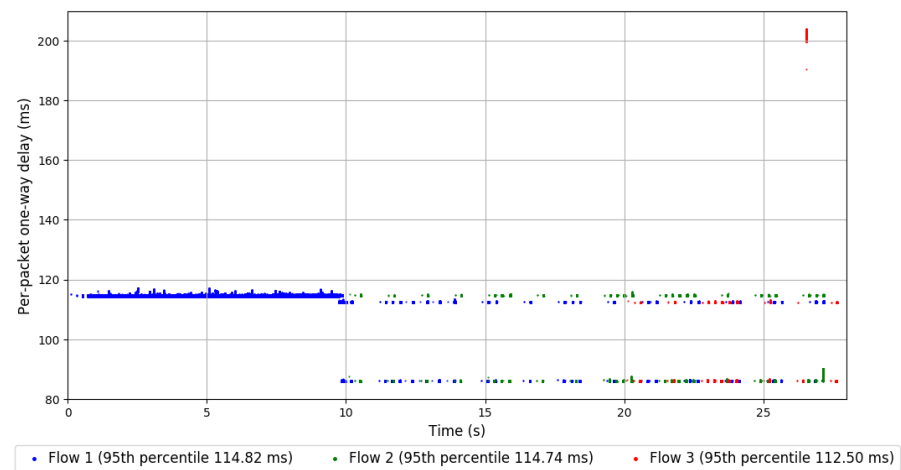
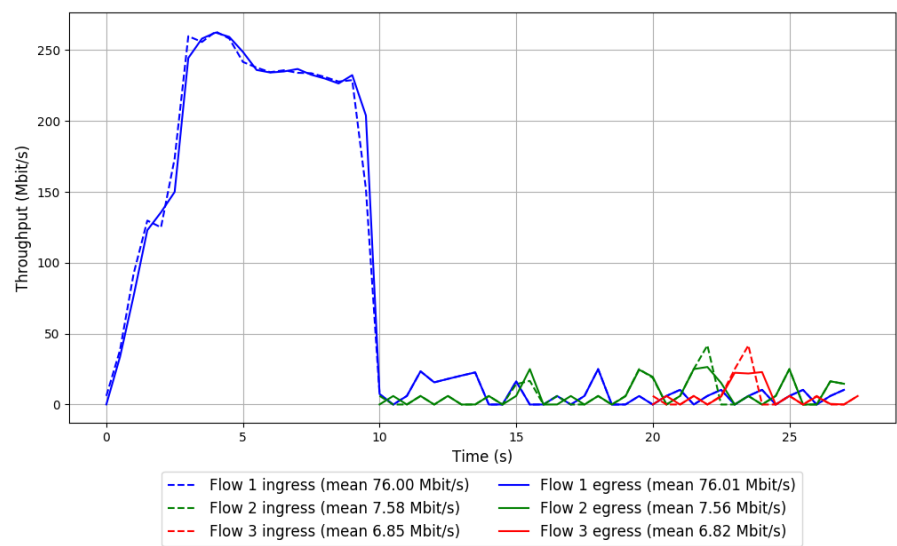


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-12 00:43:36
End at: 2017-12-12 00:44:06

# Below is generated by plot.py at 2017-12-12 04:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.23 Mbit/s
95th percentile per-packet one-way delay: 114.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.01 Mbit/s
95th percentile per-packet one-way delay: 114.819 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 114.738 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 112.498 ms
Loss rate: 0.00%
```


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

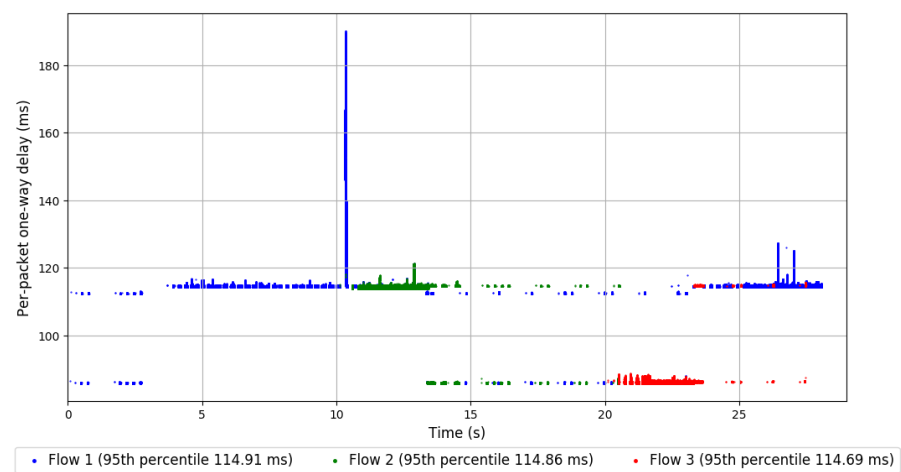
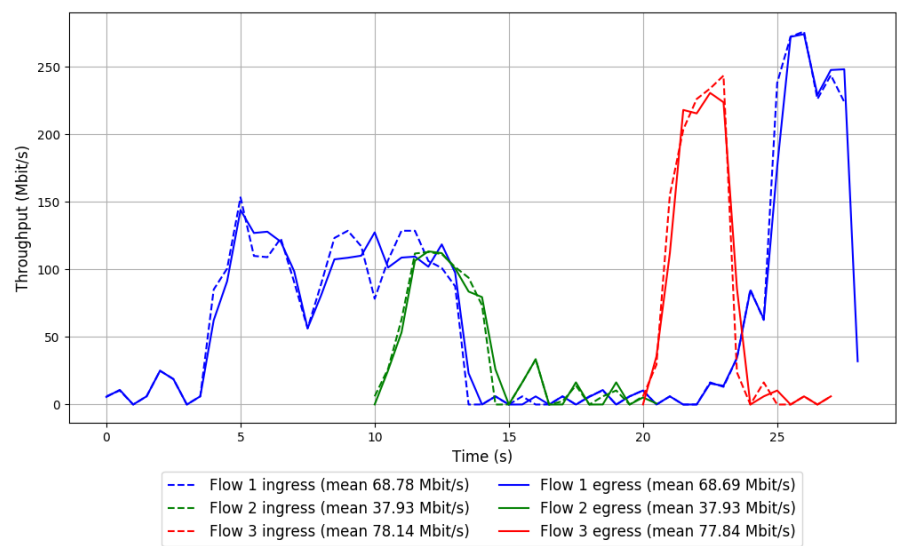


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-12 00:56:22
End at: 2017-12-12 00:56:52

# Below is generated by plot.py at 2017-12-12 04:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.35 Mbit/s
95th percentile per-packet one-way delay: 114.850 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 68.69 Mbit/s
95th percentile per-packet one-way delay: 114.908 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 114.859 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.84 Mbit/s
95th percentile per-packet one-way delay: 114.685 ms
Loss rate: 0.00%
```

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

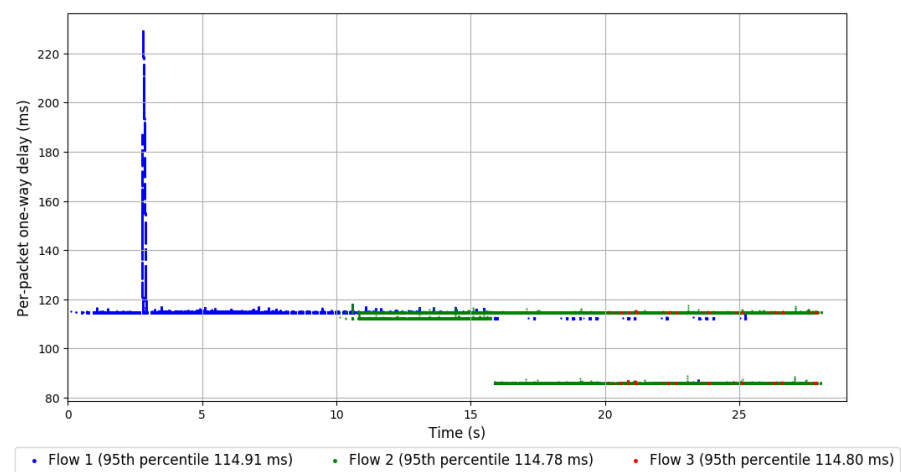
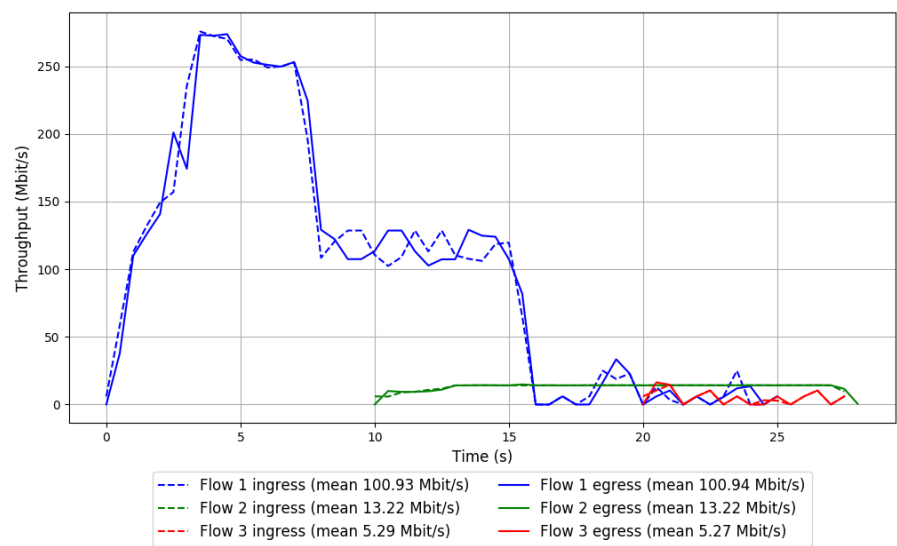


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-12 01:09:00
End at: 2017-12-12 01:09:30

# Below is generated by plot.py at 2017-12-12 04:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.69 Mbit/s
95th percentile per-packet one-way delay: 114.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 100.94 Mbit/s
95th percentile per-packet one-way delay: 114.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 114.776 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 114.801 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-12 01:22:06

End at: 2017-12-12 01:22:36

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.36 Mbit/s

95th percentile per-packet one-way delay: 116.788 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 173.50 Mbit/s

95th percentile per-packet one-way delay: 116.273 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 113.18 Mbit/s

95th percentile per-packet one-way delay: 116.487 ms

Loss rate: 0.00%

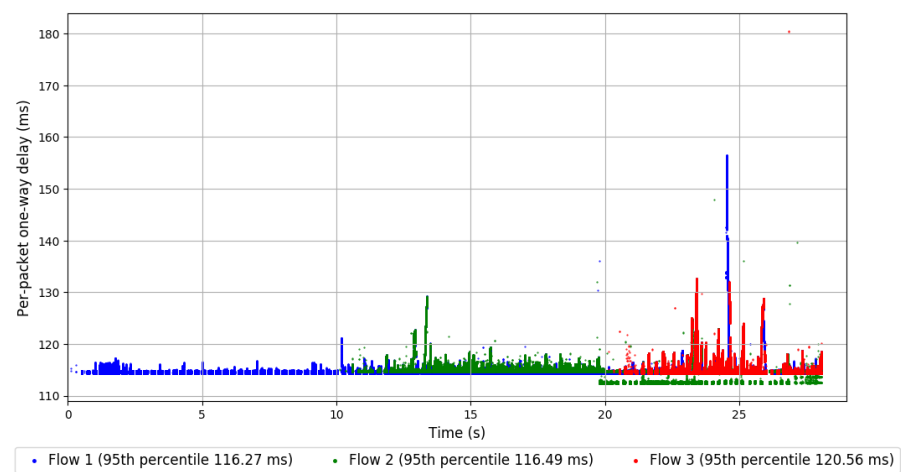
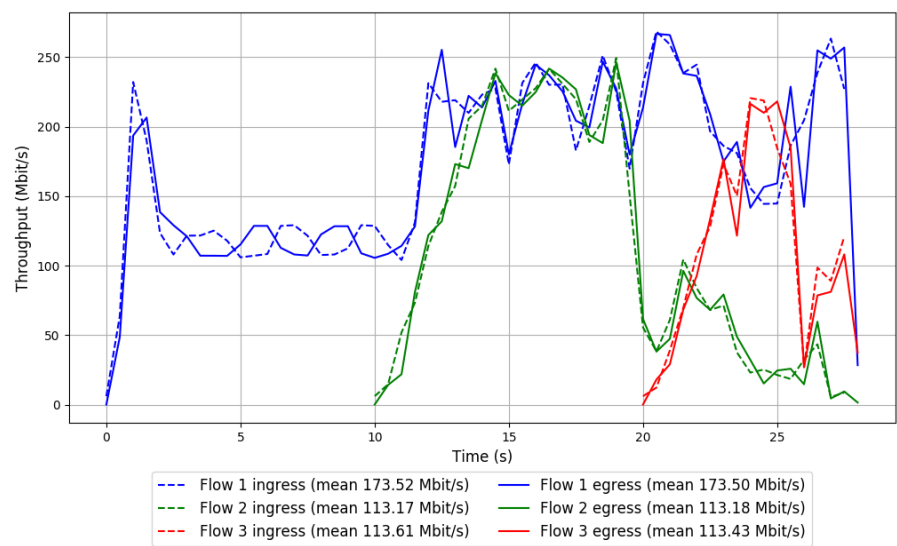
-- Flow 3:

Average throughput: 113.43 Mbit/s

95th percentile per-packet one-way delay: 120.561 ms

Loss rate: 0.18%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-12 01:35:21

End at: 2017-12-12 01:35:51

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.20 Mbit/s

95th percentile per-packet one-way delay: 115.058 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 114.815 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.18 Mbit/s

95th percentile per-packet one-way delay: 114.987 ms

Loss rate: 0.00%

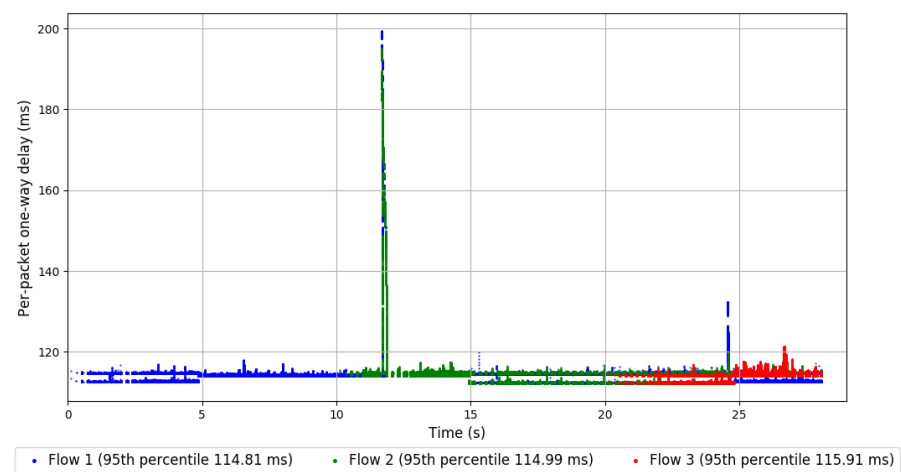
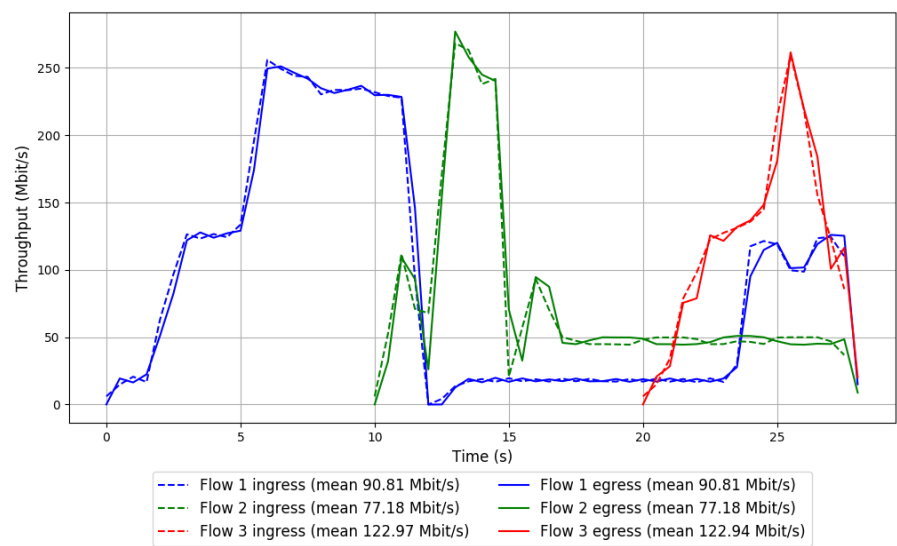
-- Flow 3:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 115.909 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-12 01:48:14

End at: 2017-12-12 01:48:44

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.91 Mbit/s

95th percentile per-packet one-way delay: 114.746 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 126.76 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 114.789 ms

Loss rate: 0.01%

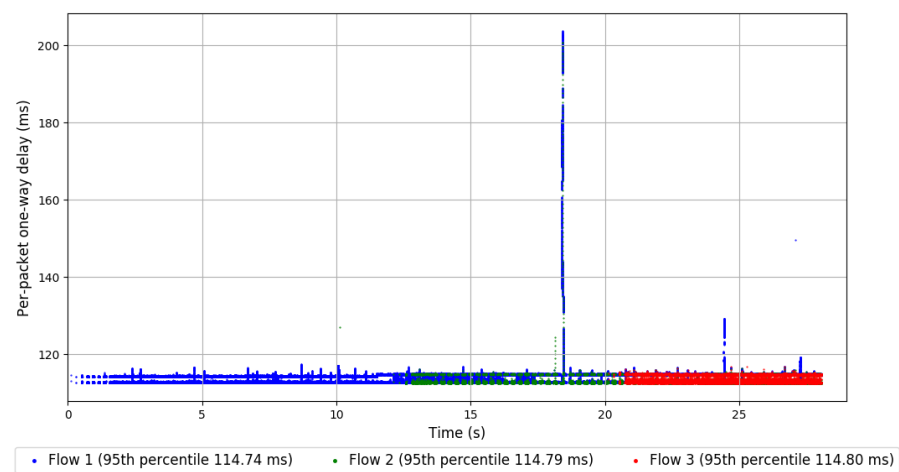
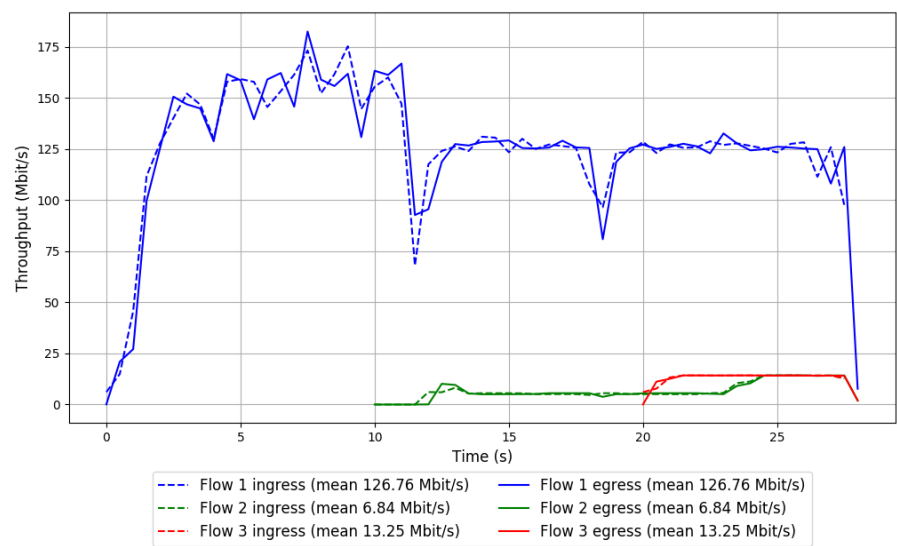
-- Flow 3:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 114.796 ms

Loss rate: 0.00%

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

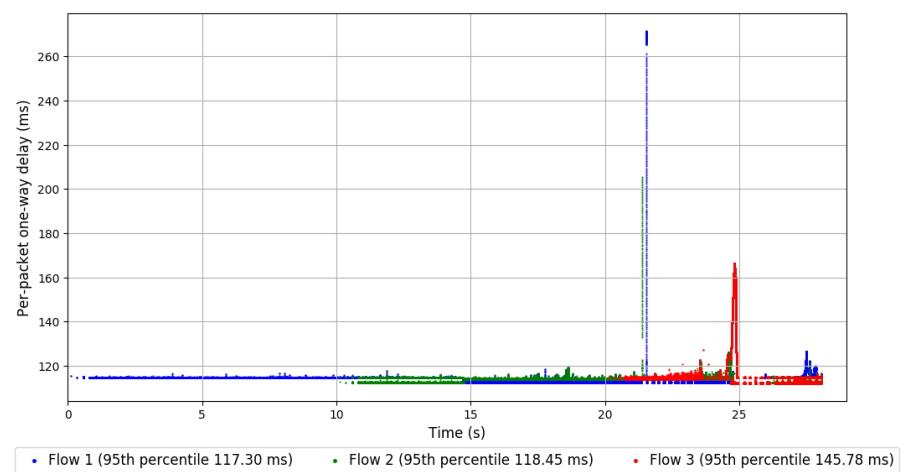
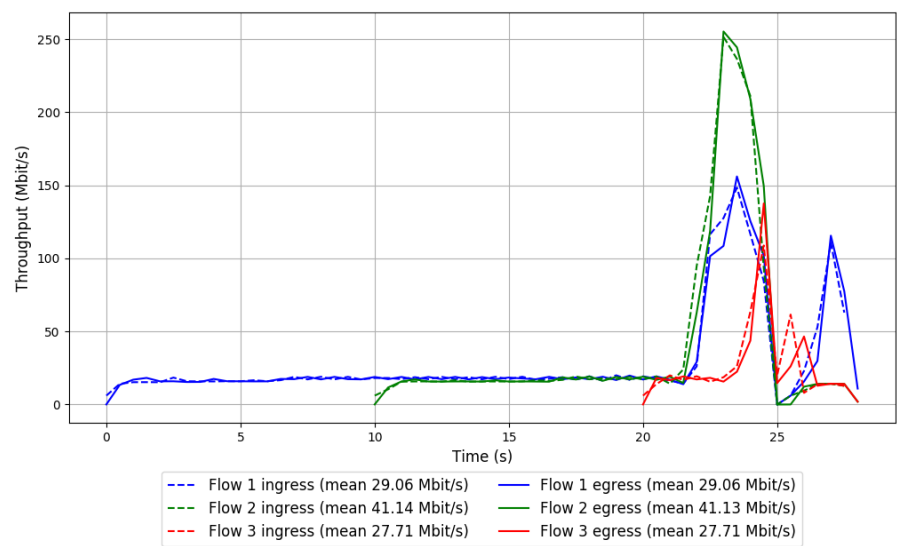


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-12 02:01:11
End at: 2017-12-12 02:01:41

# Below is generated by plot.py at 2017-12-12 04:10:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 118.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 117.299 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 118.455 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.71 Mbit/s
95th percentile per-packet one-way delay: 145.785 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-12 02:13:56

End at: 2017-12-12 02:14:26

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.19 Mbit/s

95th percentile per-packet one-way delay: 114.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 142.75 Mbit/s

95th percentile per-packet one-way delay: 114.736 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 114.235 ms

Loss rate: 0.00%

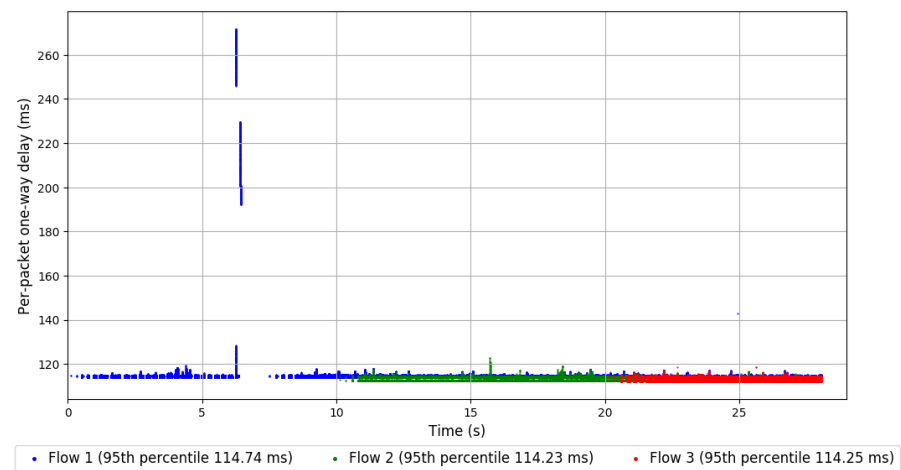
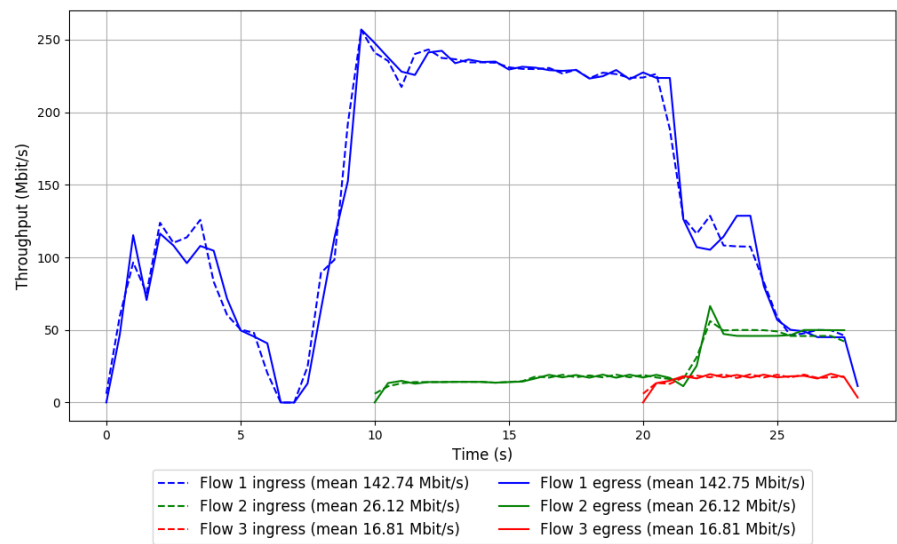
-- Flow 3:

Average throughput: 16.81 Mbit/s

95th percentile per-packet one-way delay: 114.251 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-12 02:26:58

End at: 2017-12-12 02:27:28

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.18 Mbit/s

95th percentile per-packet one-way delay: 116.649 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.24 Mbit/s

95th percentile per-packet one-way delay: 118.207 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 155.84 Mbit/s

95th percentile per-packet one-way delay: 114.873 ms

Loss rate: 0.00%

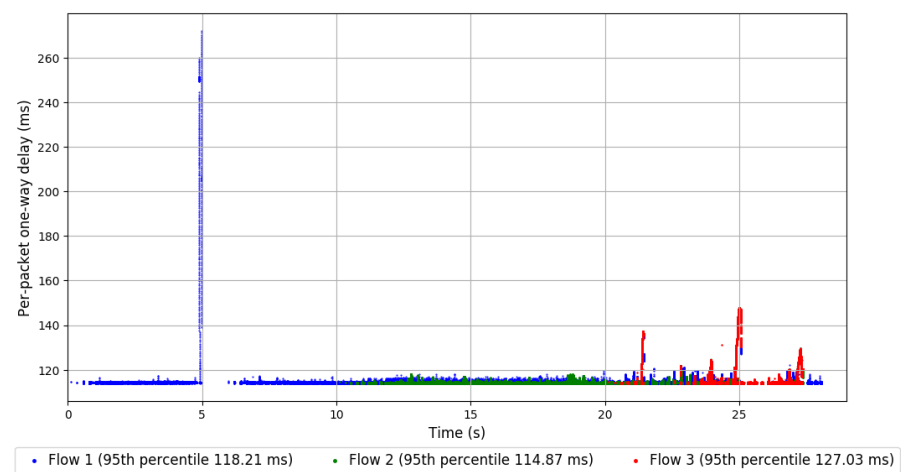
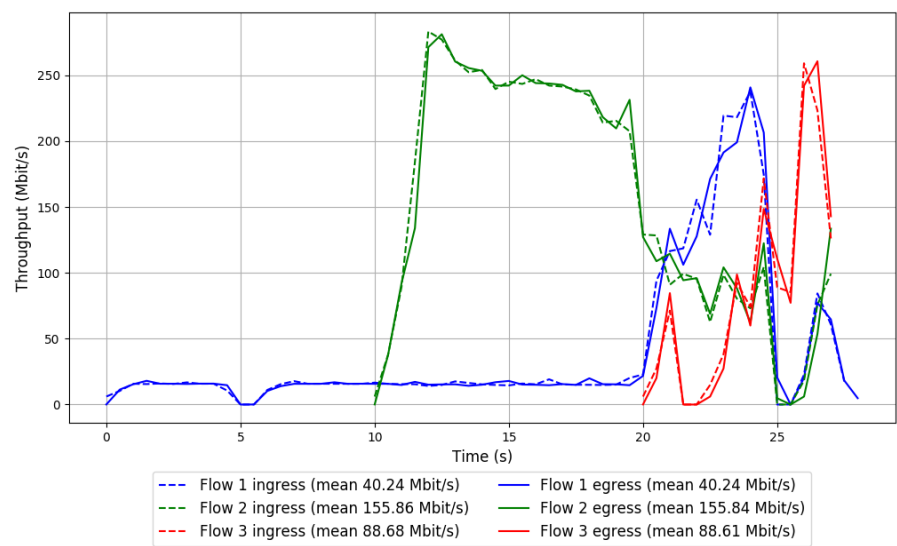
-- Flow 3:

Average throughput: 88.61 Mbit/s

95th percentile per-packet one-way delay: 127.033 ms

Loss rate: 0.00%

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

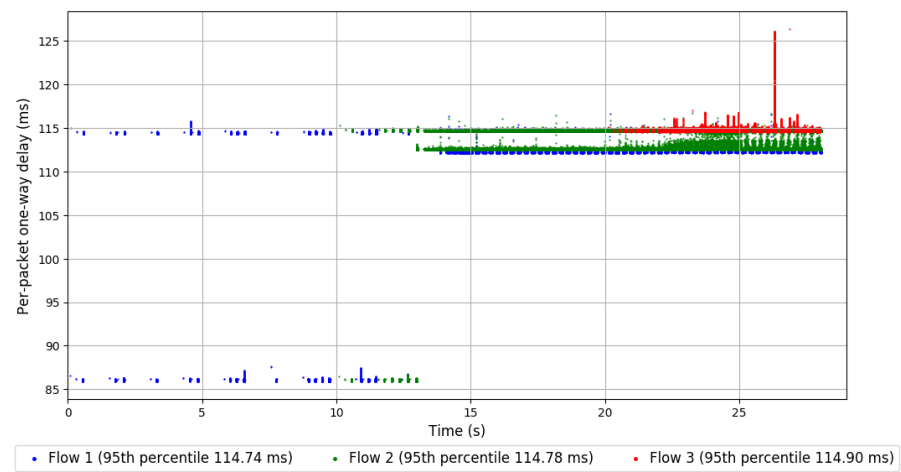
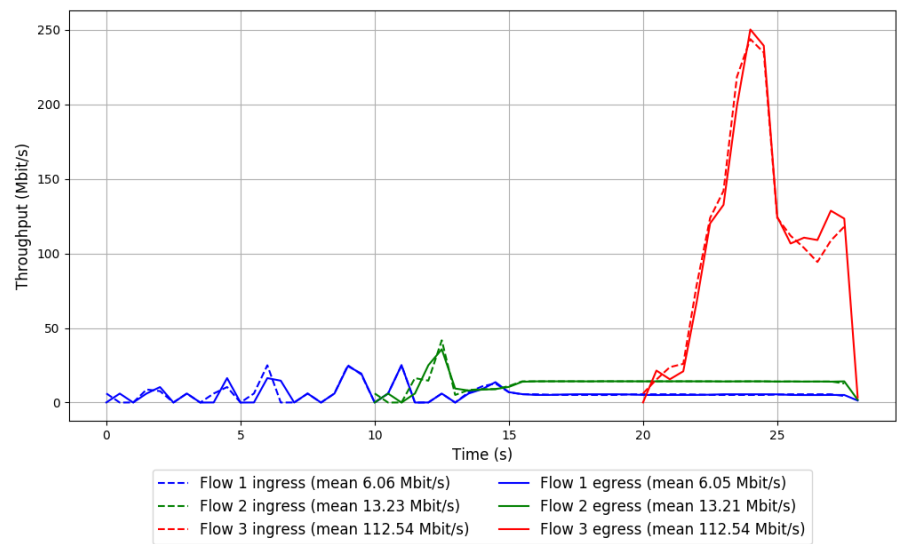


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-12 02:39:53
End at: 2017-12-12 02:40:23

# Below is generated by plot.py at 2017-12-12 04:10:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 114.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 114.739 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.21 Mbit/s
95th percentile per-packet one-way delay: 114.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 112.54 Mbit/s
95th percentile per-packet one-way delay: 114.897 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-12 00:42:46

End at: 2017-12-12 00:43:16

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 115.677 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 115.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.06 Mbit/s

95th percentile per-packet one-way delay: 115.840 ms

Loss rate: 0.00%

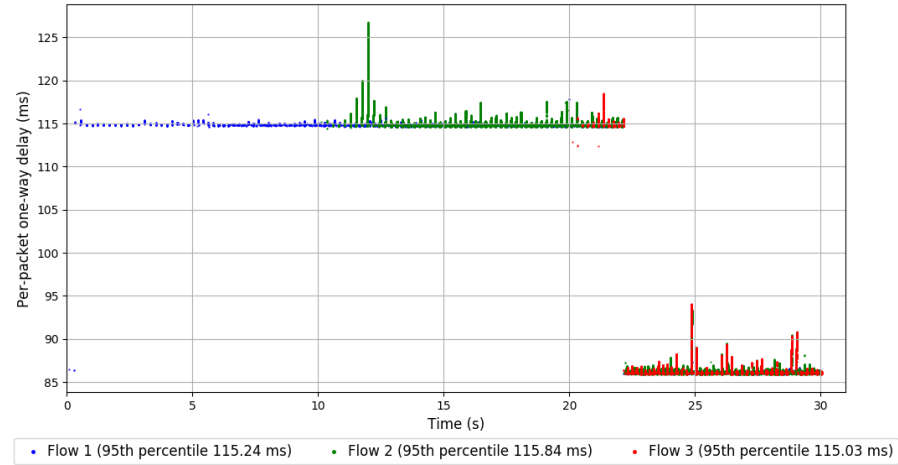
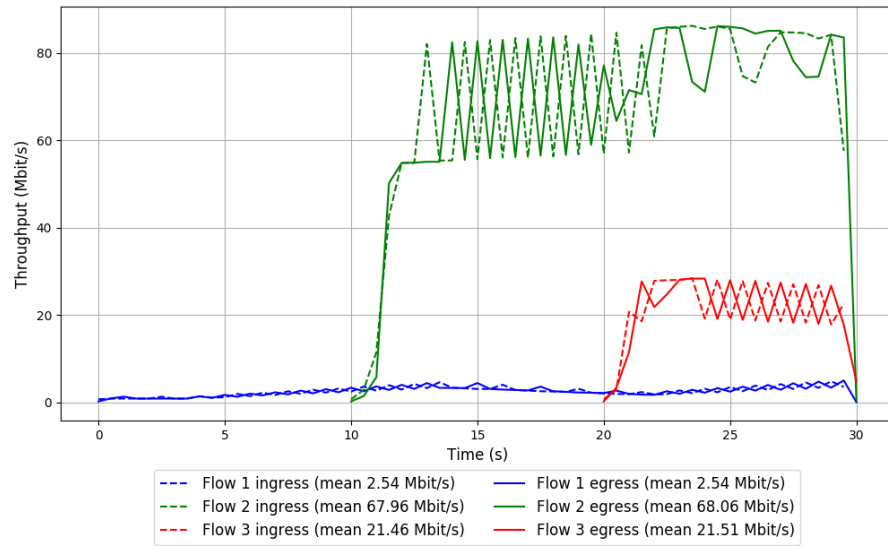
-- Flow 3:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 115.035 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-12 00:55:32

End at: 2017-12-12 00:56:02

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.53 Mbit/s

95th percentile per-packet one-way delay: 94.051 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 114.976 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.59 Mbit/s

95th percentile per-packet one-way delay: 91.225 ms

Loss rate: 0.00%

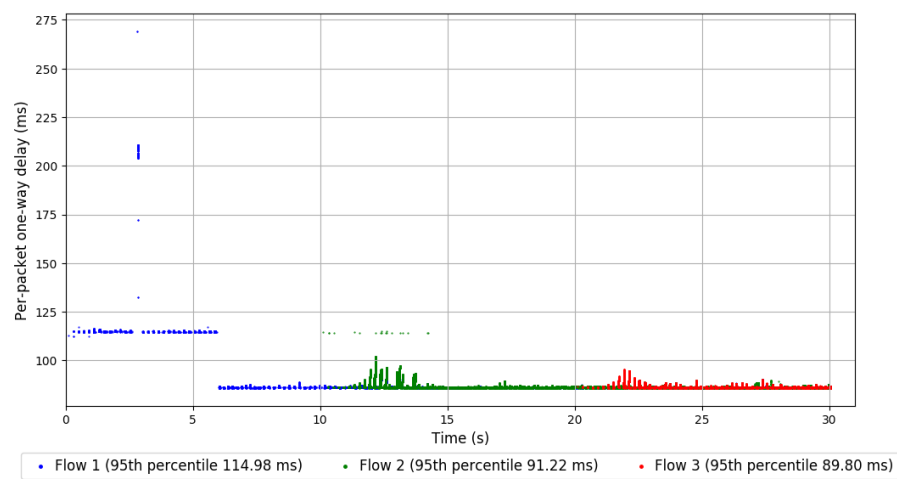
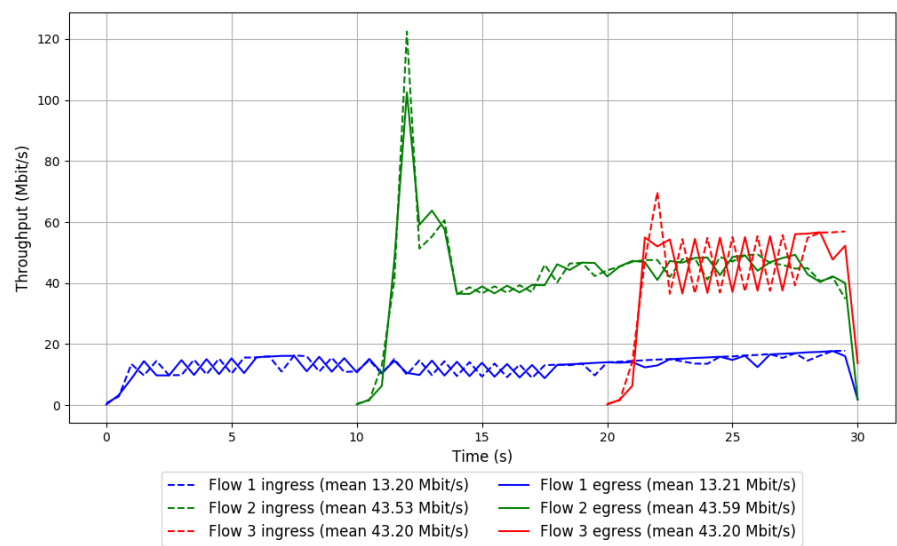
-- Flow 3:

Average throughput: 43.20 Mbit/s

95th percentile per-packet one-way delay: 89.795 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-12 01:08:10

End at: 2017-12-12 01:08:40

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.30 Mbit/s

95th percentile per-packet one-way delay: 115.397 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.25 Mbit/s

95th percentile per-packet one-way delay: 115.523 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 115.437 ms

Loss rate: 0.00%

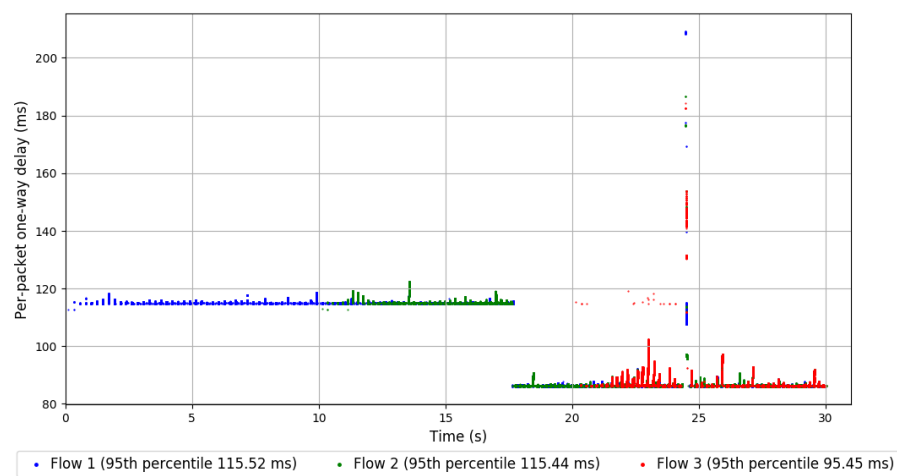
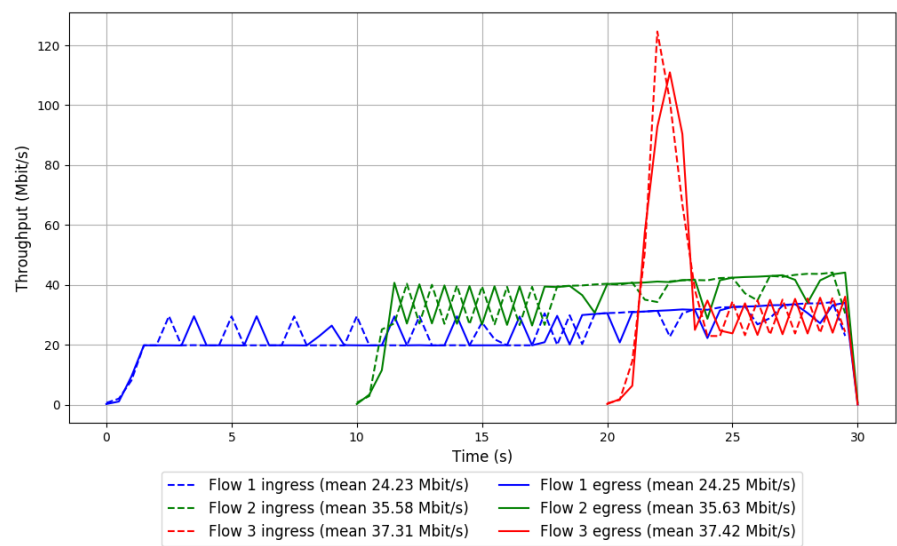
-- Flow 3:

Average throughput: 37.42 Mbit/s

95th percentile per-packet one-way delay: 95.454 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-12 01:21:17

End at: 2017-12-12 01:21:47

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.88 Mbit/s

95th percentile per-packet one-way delay: 116.355 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 115.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 118.977 ms

Loss rate: 0.00%

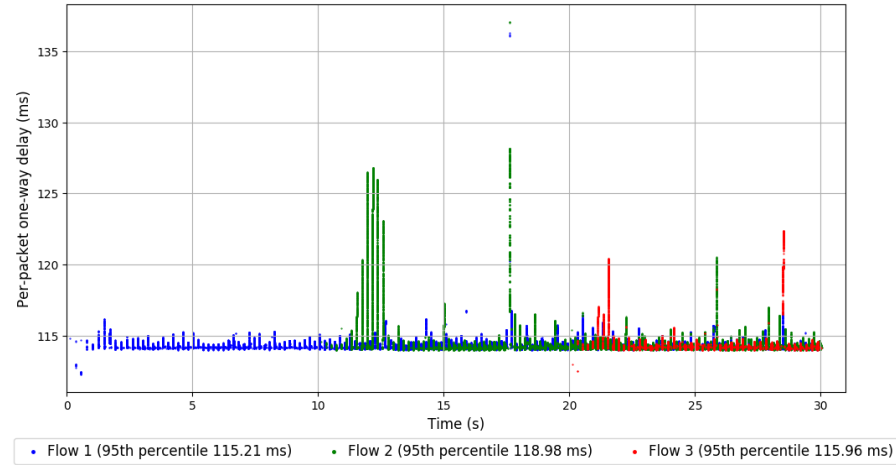
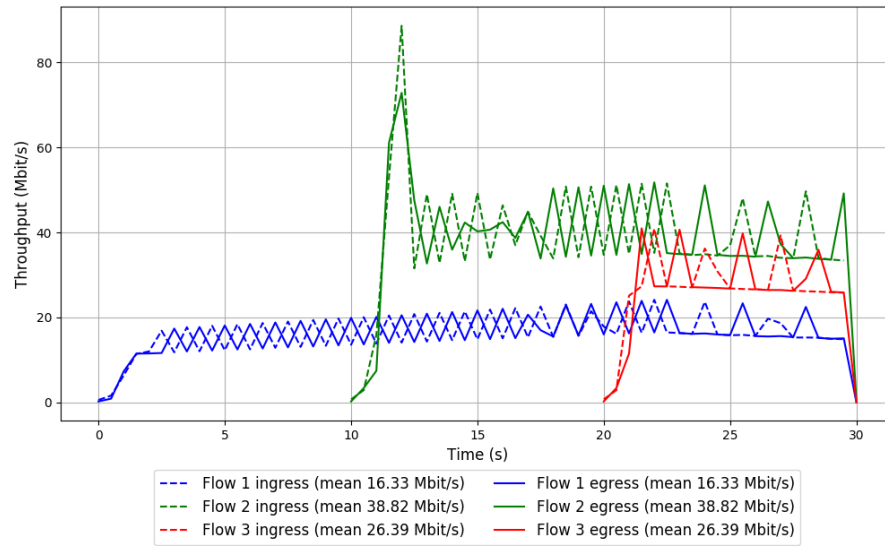
-- Flow 3:

Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 115.957 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-12 01:34:31

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

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.94 Mbit/s

95th percentile per-packet one-way delay: 116.089 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 116.139 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 116.079 ms

Loss rate: 0.00%

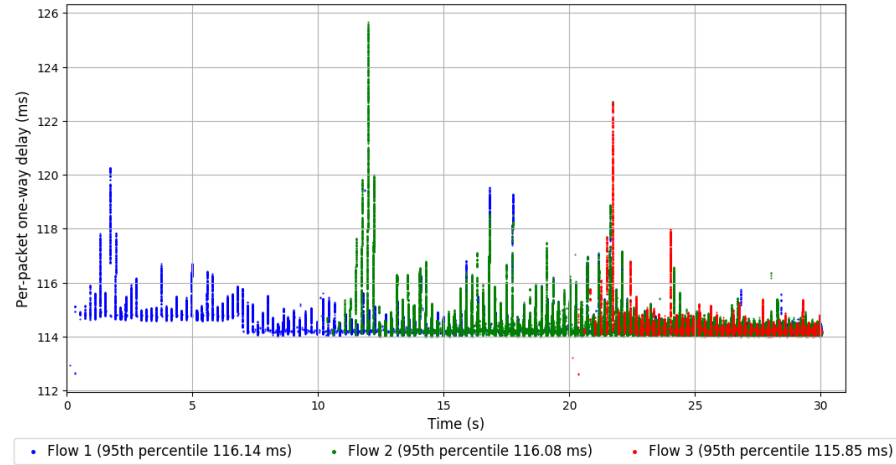
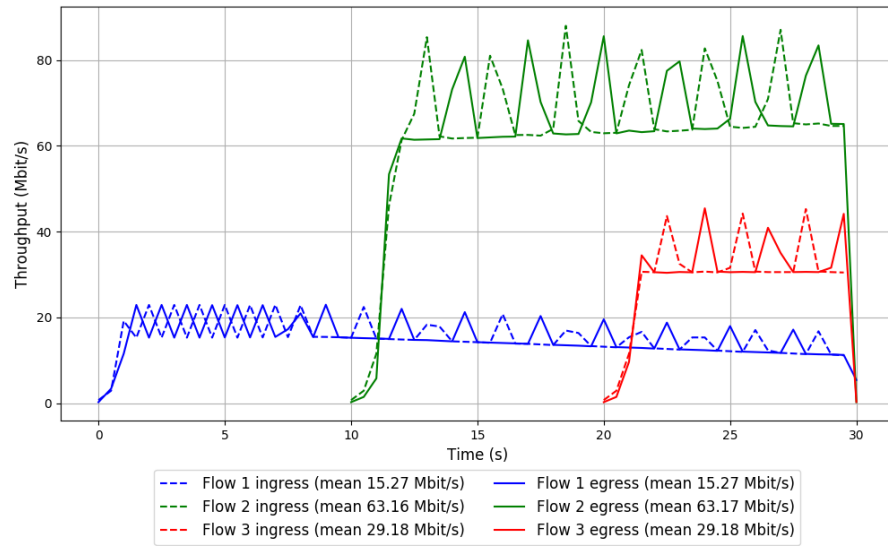
-- Flow 3:

Average throughput: 29.18 Mbit/s

95th percentile per-packet one-way delay: 115.849 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-12 01:47:23

End at: 2017-12-12 01:47:53

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 122.700 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 23.35 Mbit/s

95th percentile per-packet one-way delay: 121.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 123.509 ms

Loss rate: 0.01%

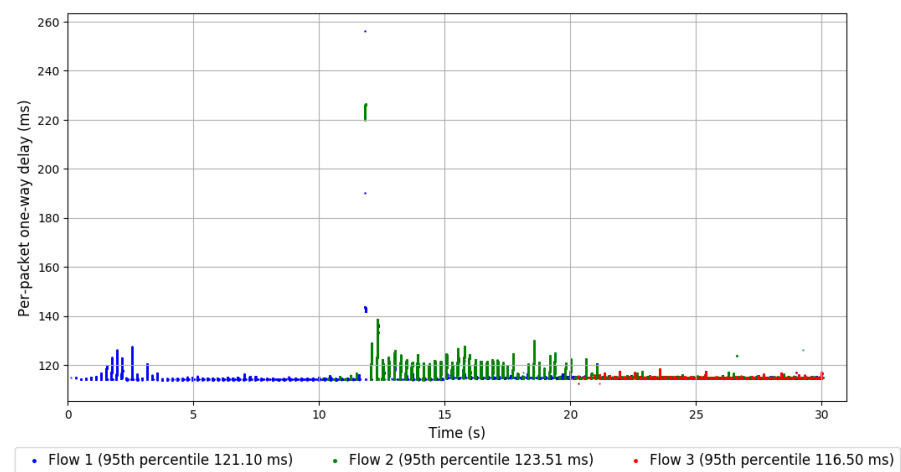
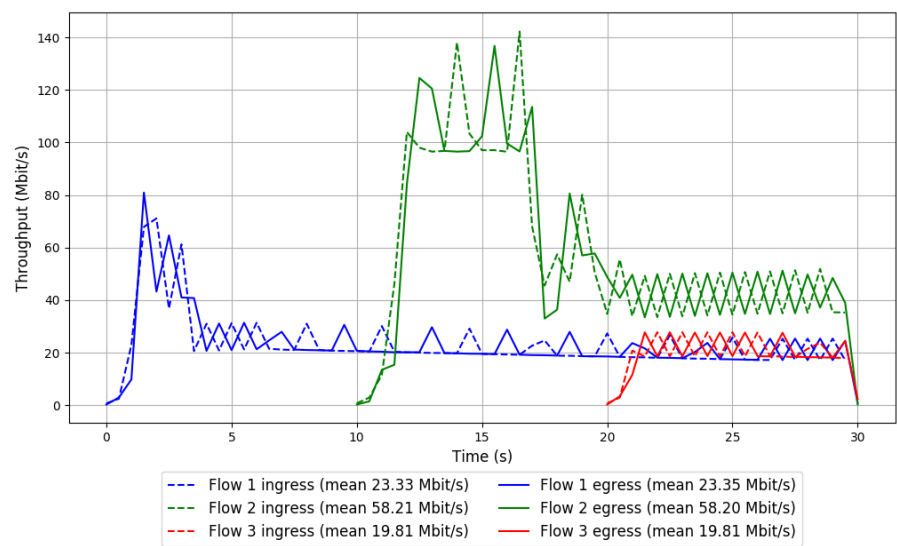
-- Flow 3:

Average throughput: 19.81 Mbit/s

95th percentile per-packet one-way delay: 116.497 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-12 02:00:22

End at: 2017-12-12 02:00:52

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 119.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.22 Mbit/s

95th percentile per-packet one-way delay: 115.720 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.25 Mbit/s

95th percentile per-packet one-way delay: 120.381 ms

Loss rate: 0.00%

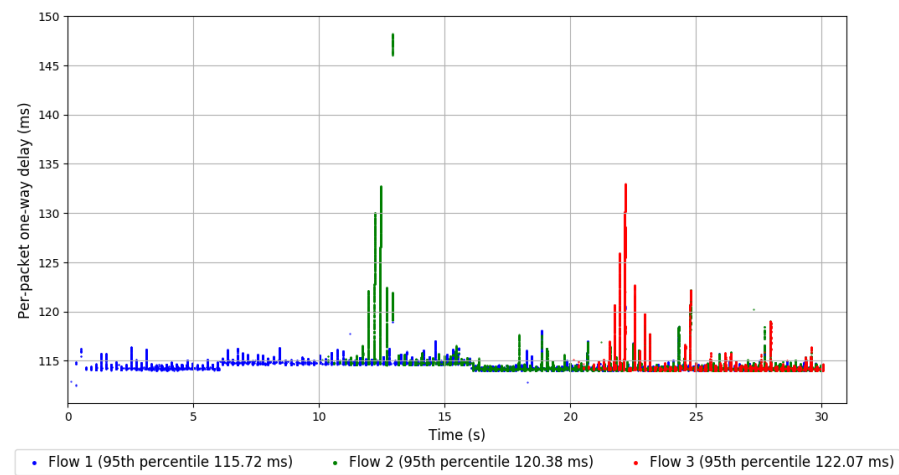
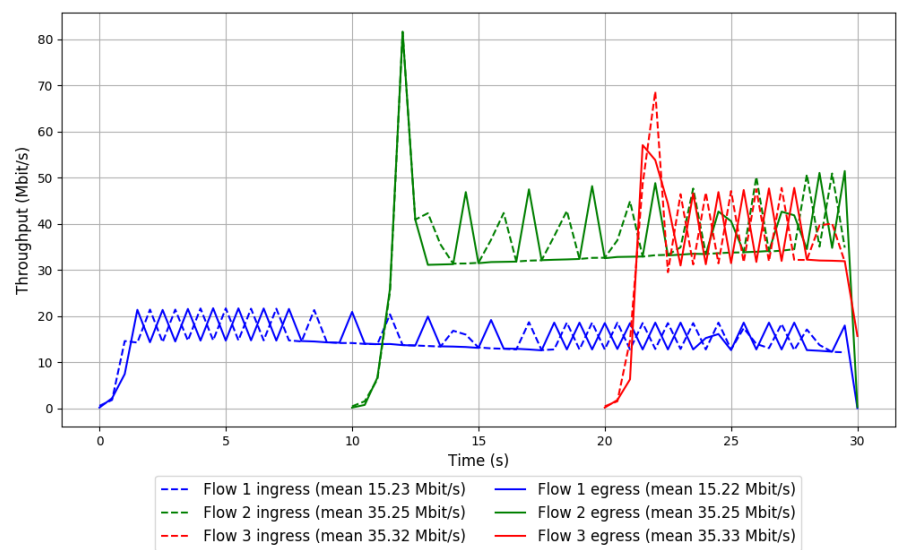
-- Flow 3:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 122.070 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-12 02:13:01

End at: 2017-12-12 02:13:31

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.63 Mbit/s

95th percentile per-packet one-way delay: 124.015 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 108.87 Mbit/s

95th percentile per-packet one-way delay: 123.905 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 124.498 ms

Loss rate: 0.04%

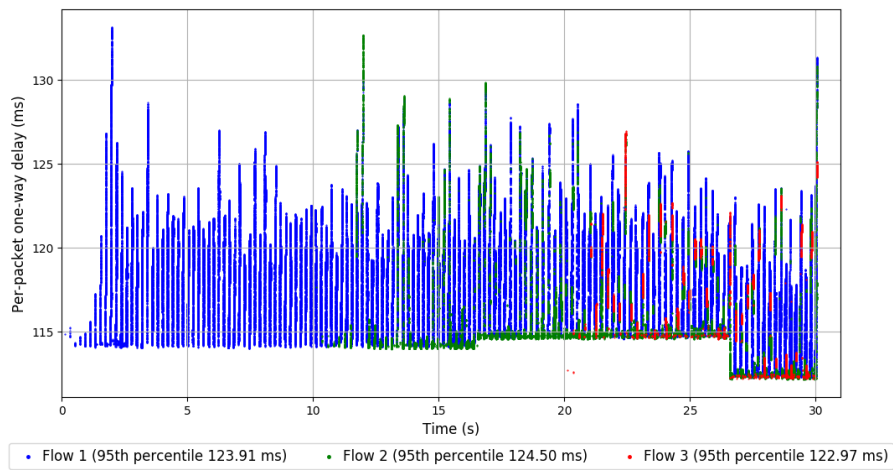
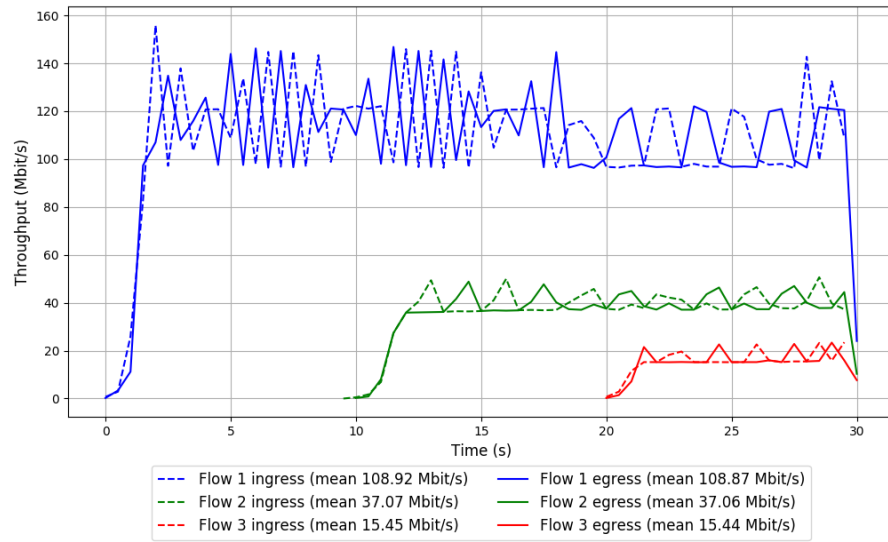
-- Flow 3:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 122.972 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-12 02:26:07

End at: 2017-12-12 02:26:37

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 117.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 116.417 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.95 Mbit/s

95th percentile per-packet one-way delay: 116.645 ms

Loss rate: 0.00%

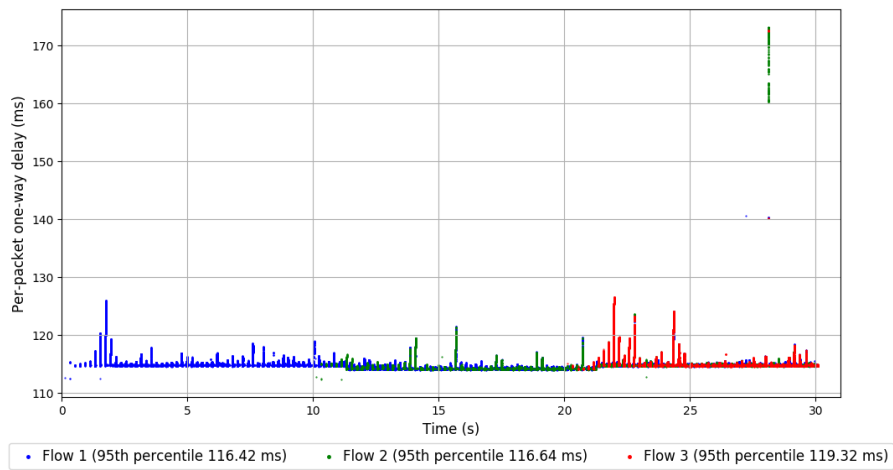
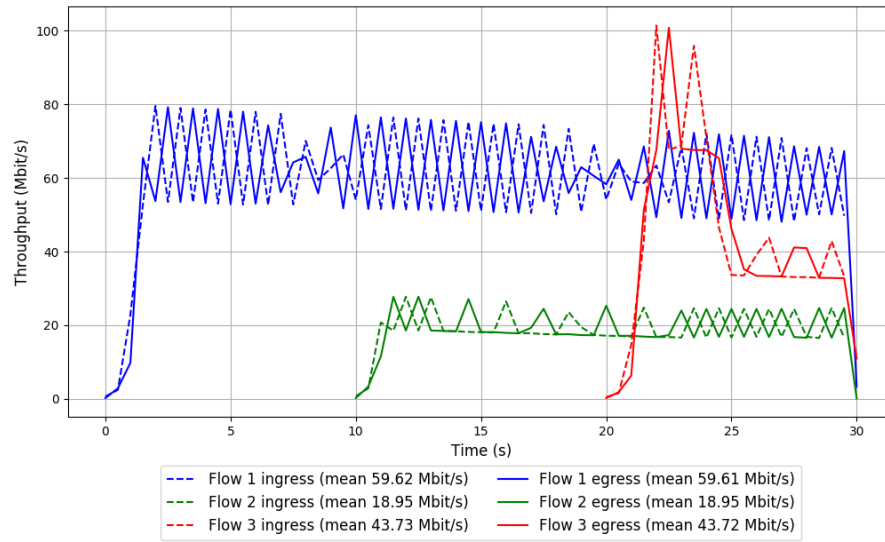
-- Flow 3:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 119.322 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-12 02:39:01

End at: 2017-12-12 02:39:31

Below is generated by plot.py at 2017-12-12 04:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 122.304 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 120.483 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 120.557 ms

Loss rate: 0.00%

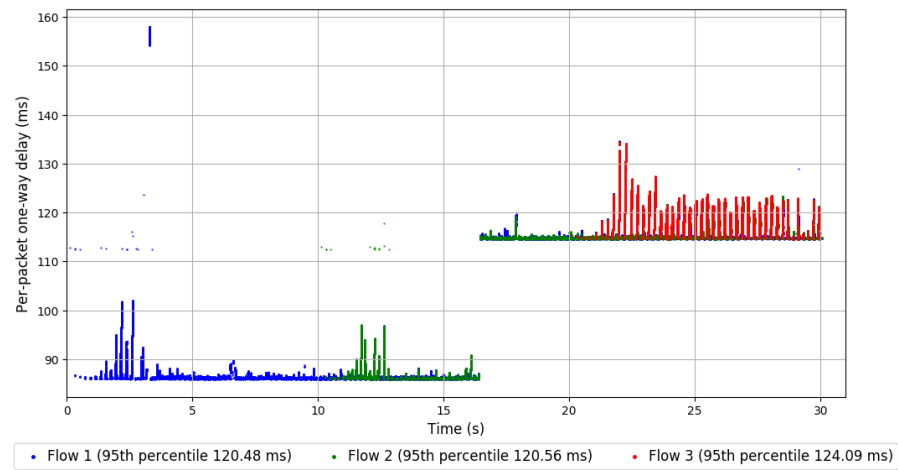
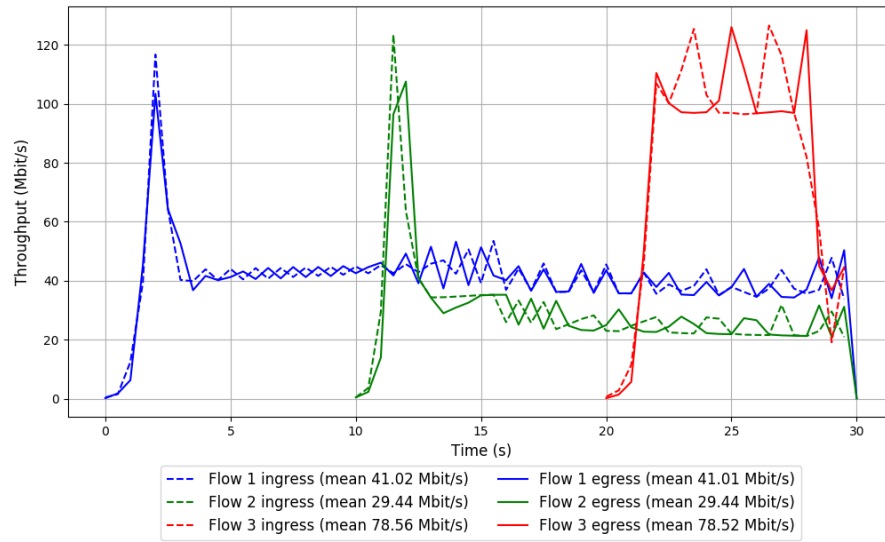
-- Flow 3:

Average throughput: 78.52 Mbit/s

95th percentile per-packet one-way delay: 124.087 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

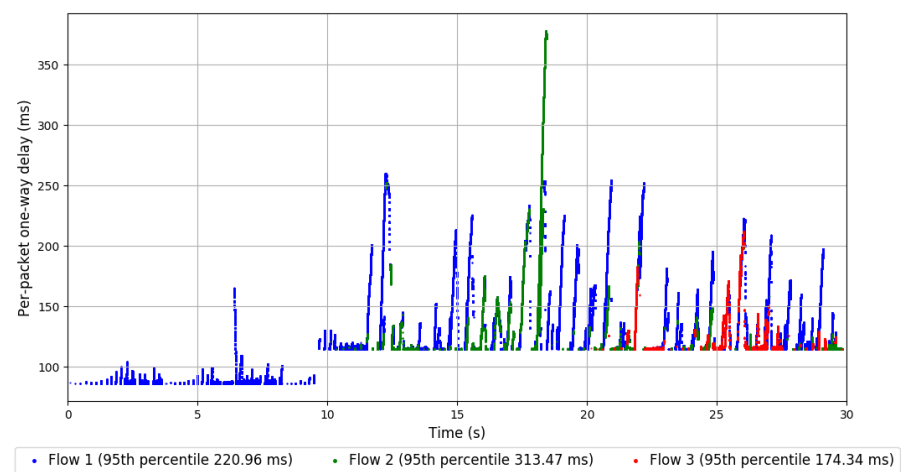
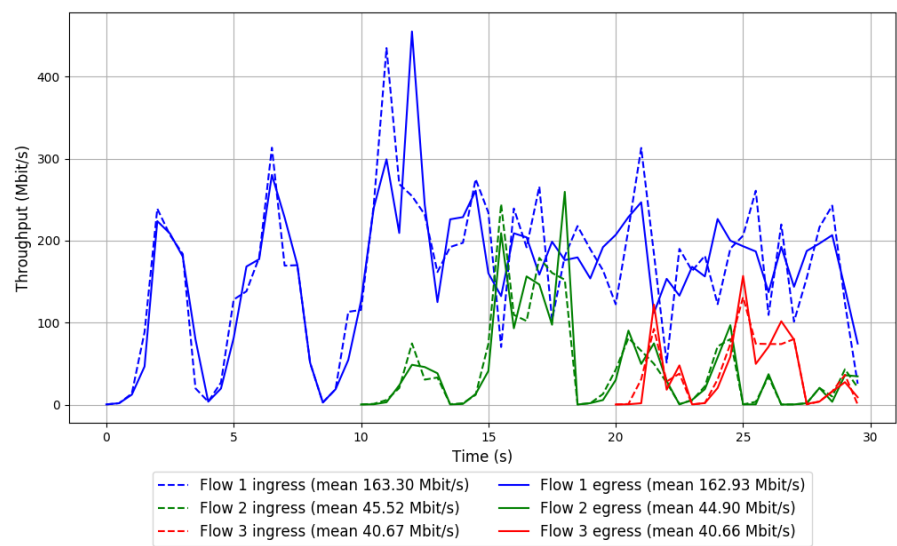


```
Run 1: Statistics of Verus

Start at: 2017-12-12 00:46:28
End at: 2017-12-12 00:46:58

# Below is generated by plot.py at 2017-12-12 04:10:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.61 Mbit/s
95th percentile per-packet one-way delay: 222.363 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 162.93 Mbit/s
95th percentile per-packet one-way delay: 220.957 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 44.90 Mbit/s
95th percentile per-packet one-way delay: 313.469 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 174.336 ms
Loss rate: 0.01%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-12 00:59:20

End at: 2017-12-12 00:59:50

Below is generated by plot.py at 2017-12-12 04:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.29 Mbit/s

95th percentile per-packet one-way delay: 215.998 ms

Loss rate: 2.63%

-- Flow 1:

Average throughput: 136.27 Mbit/s

95th percentile per-packet one-way delay: 201.904 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 135.68 Mbit/s

95th percentile per-packet one-way delay: 283.221 ms

Loss rate: 4.86%

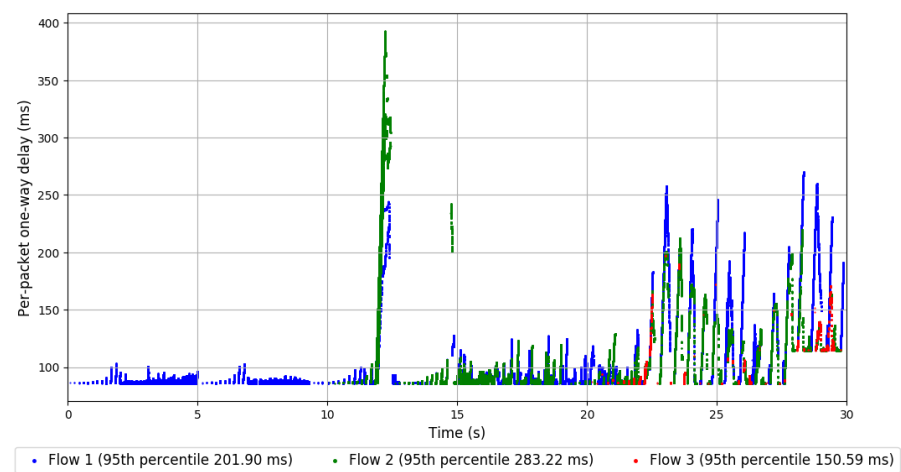
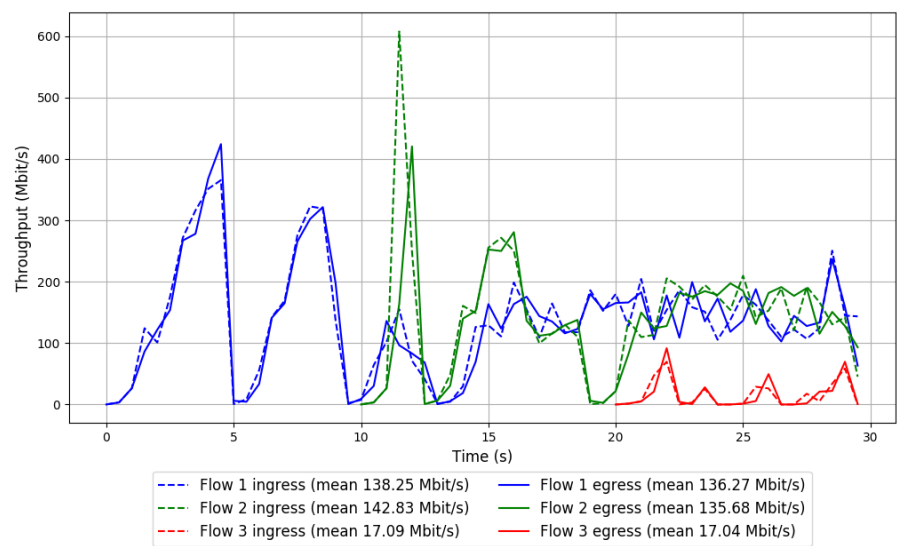
-- Flow 3:

Average throughput: 17.04 Mbit/s

95th percentile per-packet one-way delay: 150.590 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-12 01:11:51

End at: 2017-12-12 01:12:21

Below is generated by plot.py at 2017-12-12 04:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.45 Mbit/s

95th percentile per-packet one-way delay: 264.668 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 218.82 Mbit/s

95th percentile per-packet one-way delay: 268.263 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 48.78 Mbit/s

95th percentile per-packet one-way delay: 260.635 ms

Loss rate: 2.36%

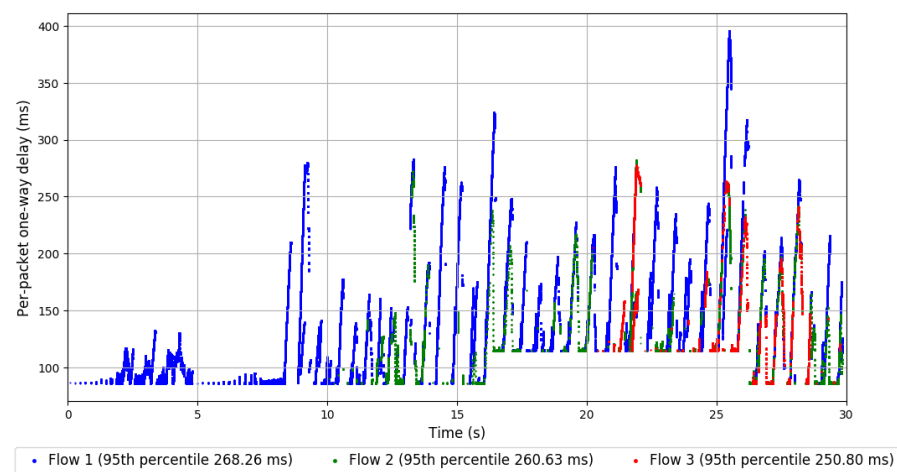
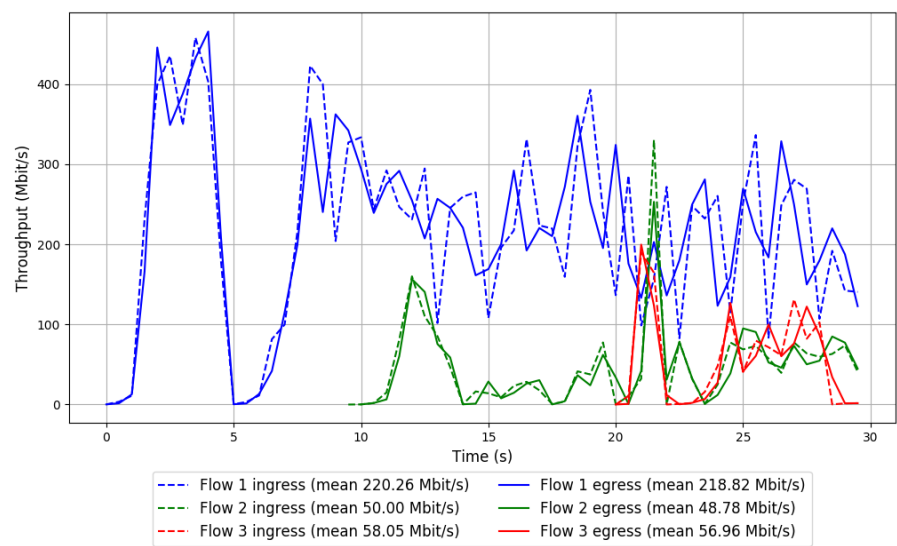
-- Flow 3:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 250.800 ms

Loss rate: 2.74%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-12 01:25:22

End at: 2017-12-12 01:25:52

Below is generated by plot.py at 2017-12-12 04:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.66 Mbit/s

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

Loss rate: 0.27%

-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 229.640 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 148.13 Mbit/s

95th percentile per-packet one-way delay: 157.798 ms

Loss rate: 0.00%

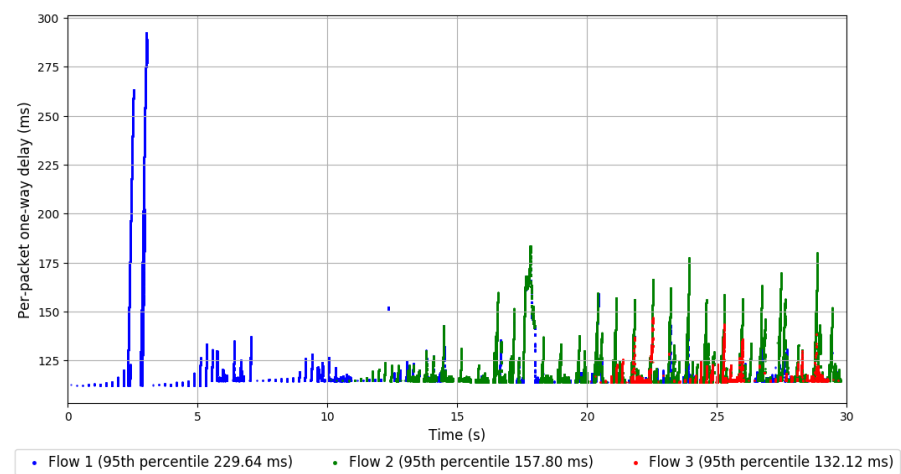
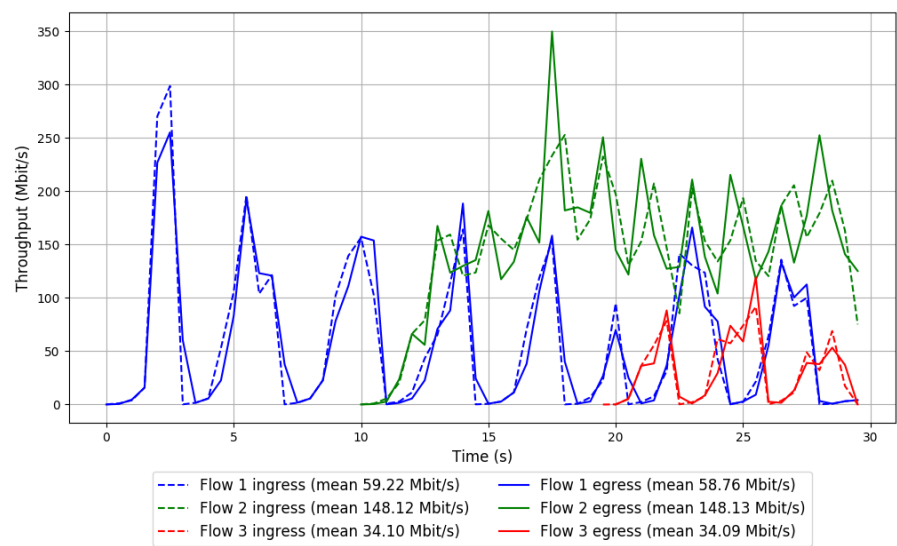
-- Flow 3:

Average throughput: 34.09 Mbit/s

95th percentile per-packet one-way delay: 132.122 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-12 01:38:30

End at: 2017-12-12 01:39:00

Below is generated by plot.py at 2017-12-12 04:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.45 Mbit/s

95th percentile per-packet one-way delay: 213.814 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 142.79 Mbit/s

95th percentile per-packet one-way delay: 215.603 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 179.813 ms

Loss rate: 0.00%

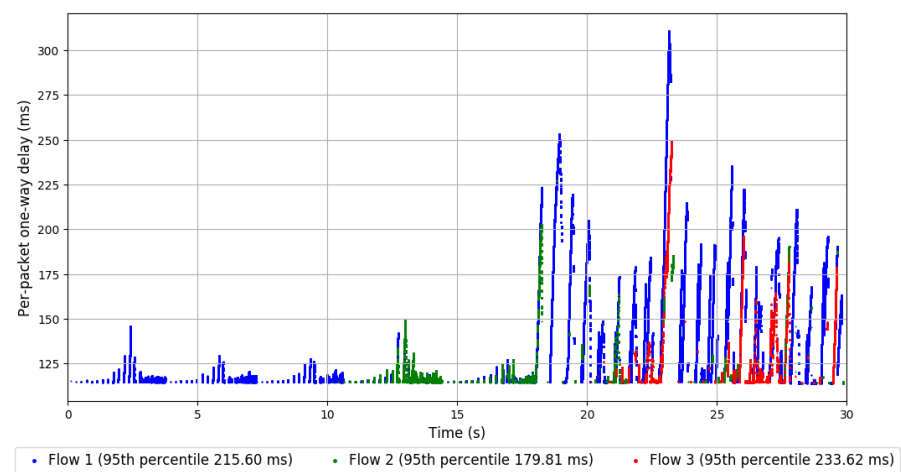
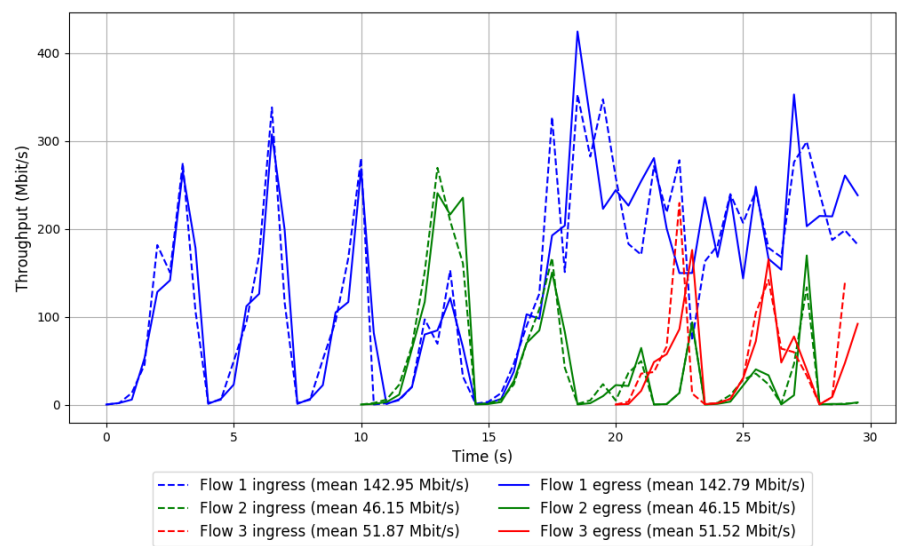
-- Flow 3:

Average throughput: 51.52 Mbit/s

95th percentile per-packet one-way delay: 233.616 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-12 01:51:09

End at: 2017-12-12 01:51:39

Below is generated by plot.py at 2017-12-12 04:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.69 Mbit/s

95th percentile per-packet one-way delay: 212.483 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 137.54 Mbit/s

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

Loss rate: 0.20%

-- Flow 2:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 264.862 ms

Loss rate: 0.43%

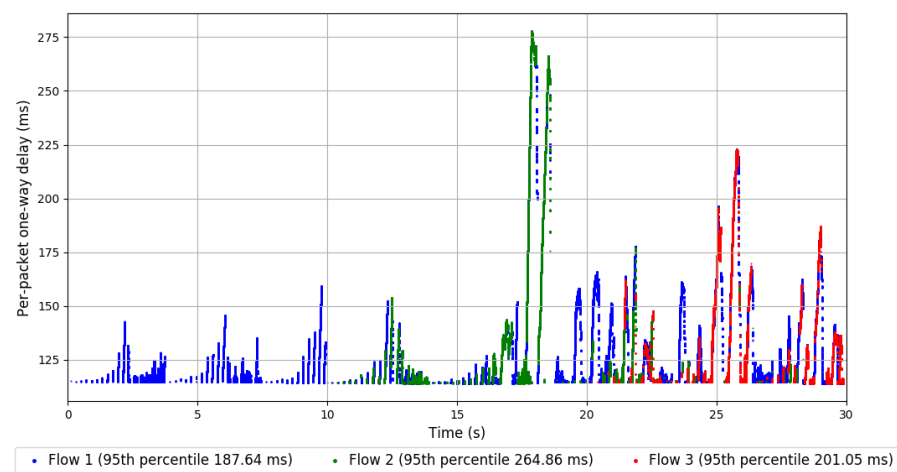
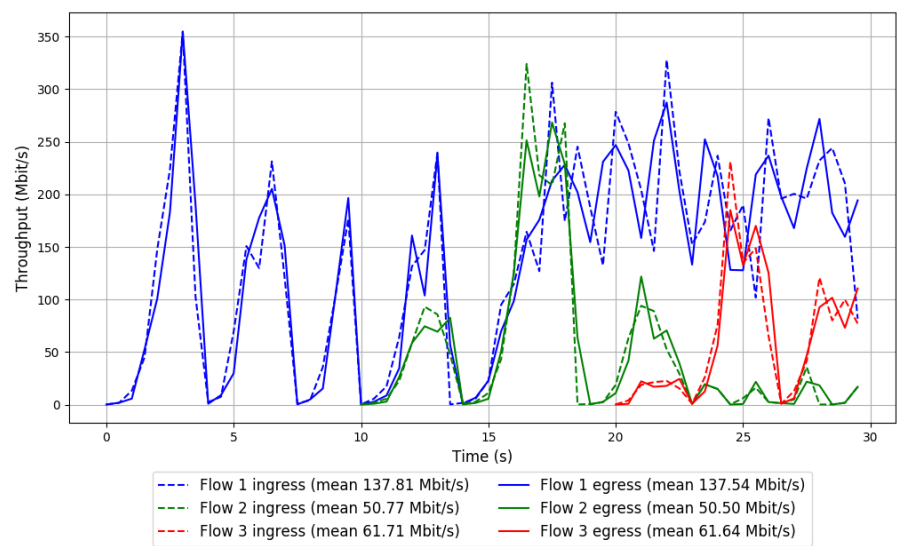
-- Flow 3:

Average throughput: 61.64 Mbit/s

95th percentile per-packet one-way delay: 201.046 ms

Loss rate: 0.13%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-12 02:04:05

End at: 2017-12-12 02:04:35

Below is generated by plot.py at 2017-12-12 04:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.46 Mbit/s

95th percentile per-packet one-way delay: 144.593 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 158.33 Mbit/s

95th percentile per-packet one-way delay: 146.687 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 137.209 ms

Loss rate: 0.00%

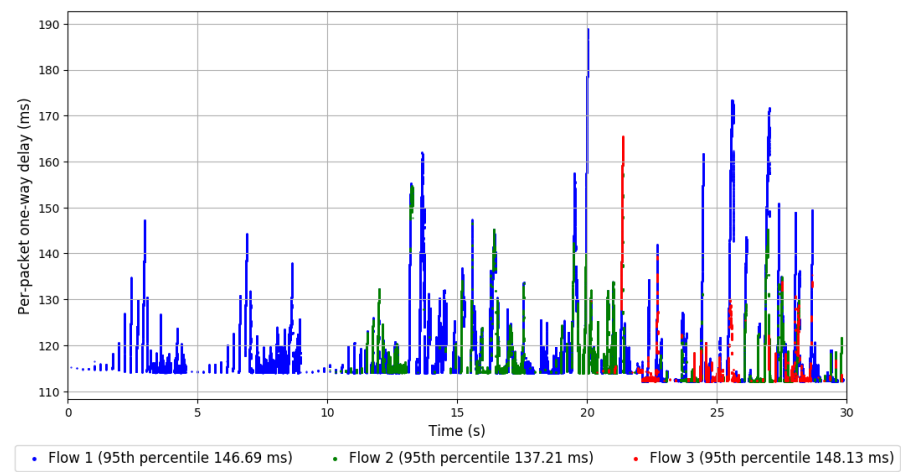
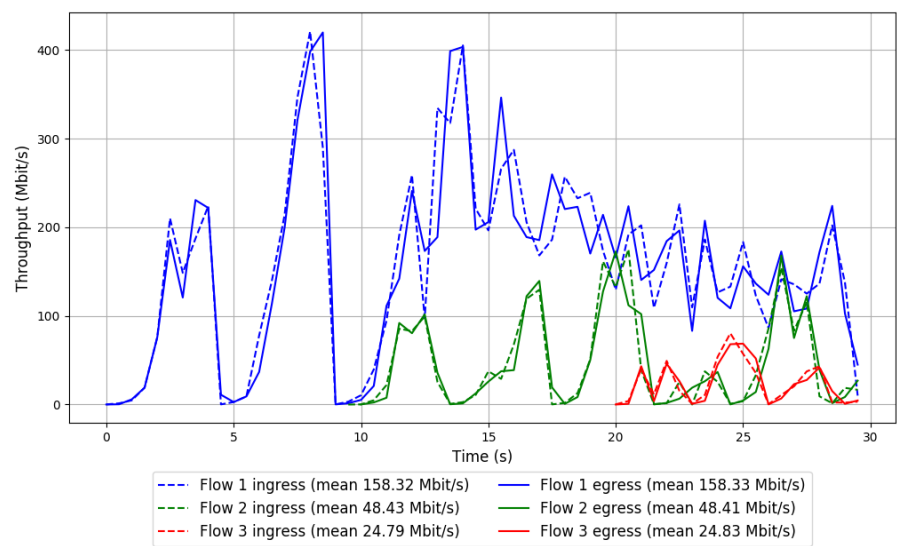
-- Flow 3:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 148.134 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-12 02:16:59

End at: 2017-12-12 02:17:29

Below is generated by plot.py at 2017-12-12 04:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.88 Mbit/s

95th percentile per-packet one-way delay: 168.095 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 116.94 Mbit/s

95th percentile per-packet one-way delay: 195.663 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 64.09 Mbit/s

95th percentile per-packet one-way delay: 143.577 ms

Loss rate: 0.37%

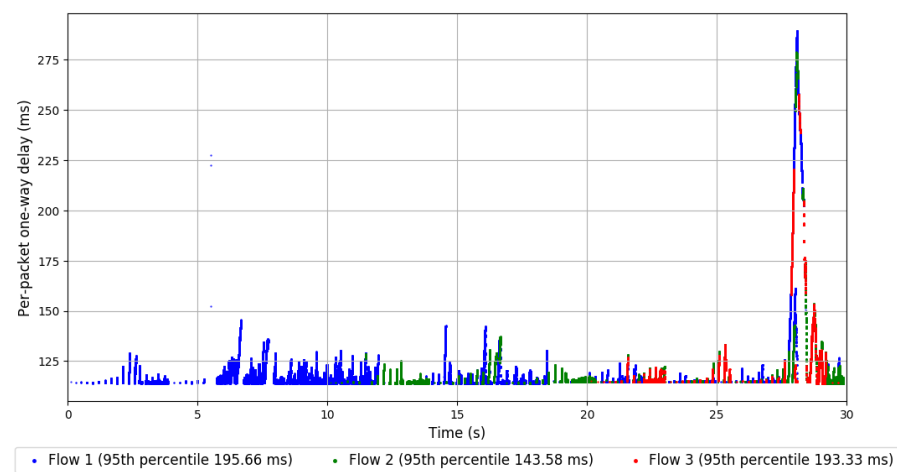
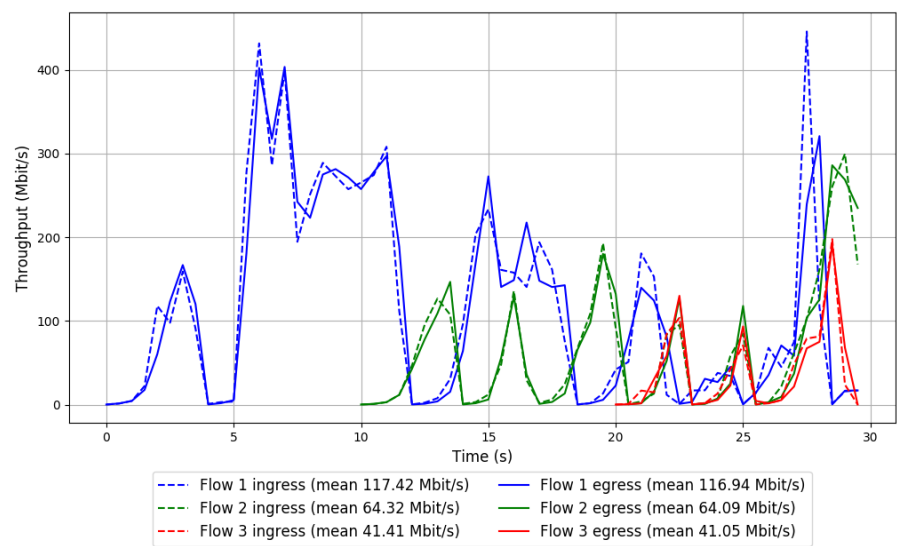
-- Flow 3:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 193.330 ms

Loss rate: 0.88%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-12 02:30:02

End at: 2017-12-12 02:30:32

Below is generated by plot.py at 2017-12-12 04:15:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.91 Mbit/s

95th percentile per-packet one-way delay: 157.275 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 115.89 Mbit/s

95th percentile per-packet one-way delay: 139.320 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 120.29 Mbit/s

95th percentile per-packet one-way delay: 164.889 ms

Loss rate: 0.00%

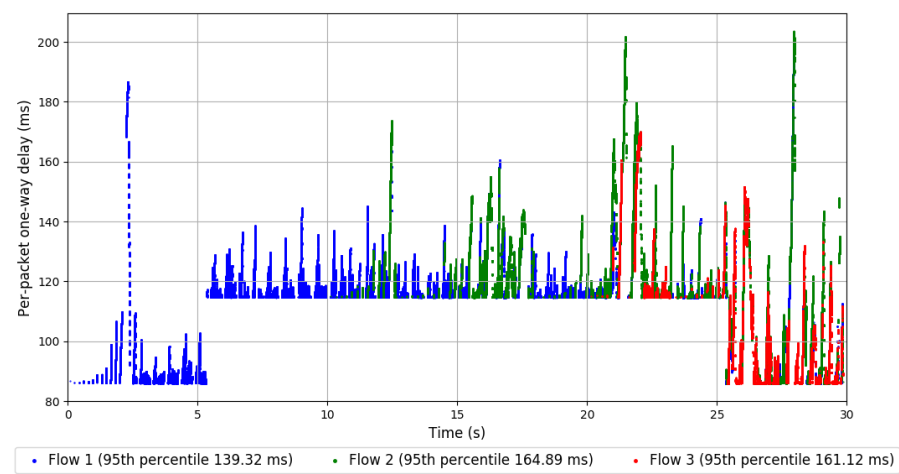
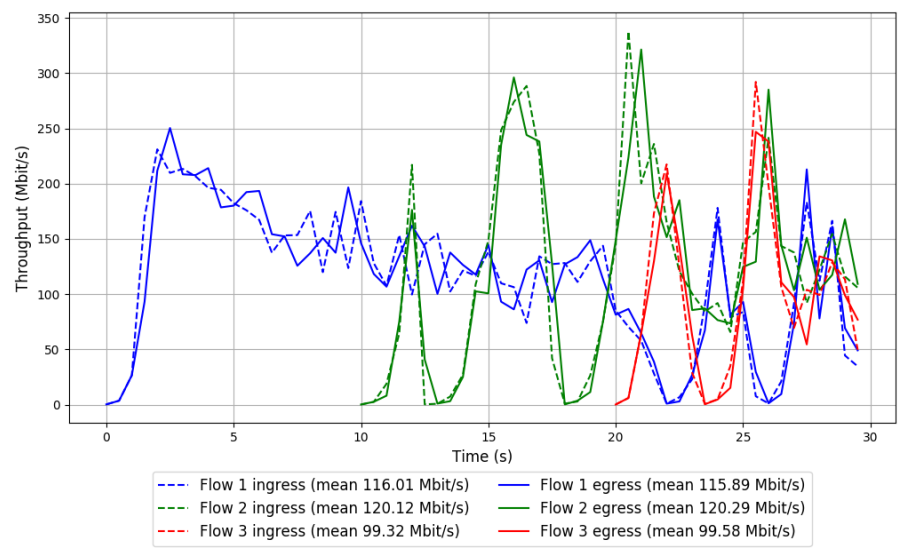
-- Flow 3:

Average throughput: 99.58 Mbit/s

95th percentile per-packet one-way delay: 161.124 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-12 02:42:35

End at: 2017-12-12 02:43:05

Below is generated by plot.py at 2017-12-12 04:16:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.53 Mbit/s

95th percentile per-packet one-way delay: 232.407 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 123.68 Mbit/s

95th percentile per-packet one-way delay: 231.370 ms

Loss rate: 2.40%

-- Flow 2:

Average throughput: 172.99 Mbit/s

95th percentile per-packet one-way delay: 233.538 ms

Loss rate: 2.19%

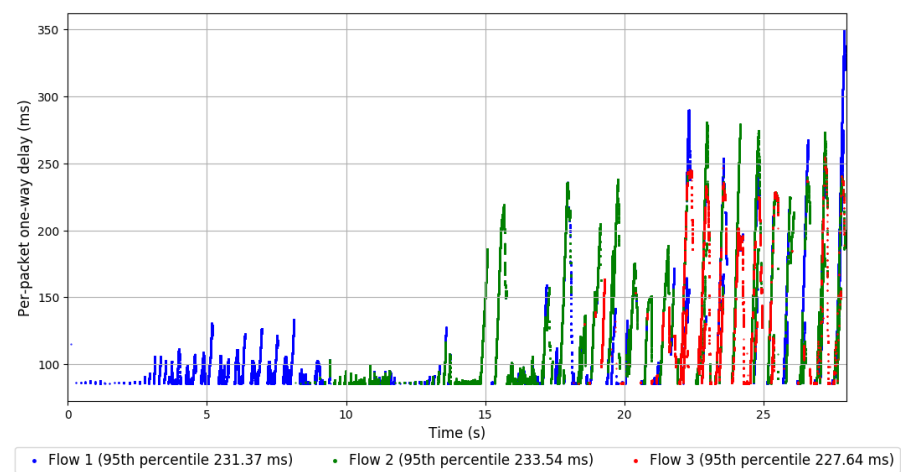
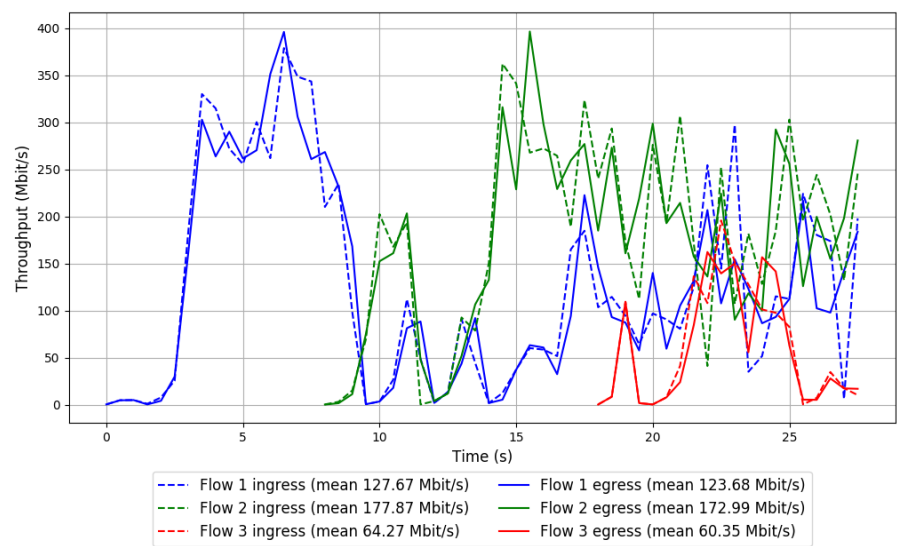
-- Flow 3:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 227.642 ms

Loss rate: 5.10%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-12 00:39:26

End at: 2017-12-12 00:39:56

Below is generated by plot.py at 2017-12-12 04:16:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.22 Mbit/s

95th percentile per-packet one-way delay: 114.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.61 Mbit/s

95th percentile per-packet one-way delay: 114.674 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 114.717 ms

Loss rate: 0.00%

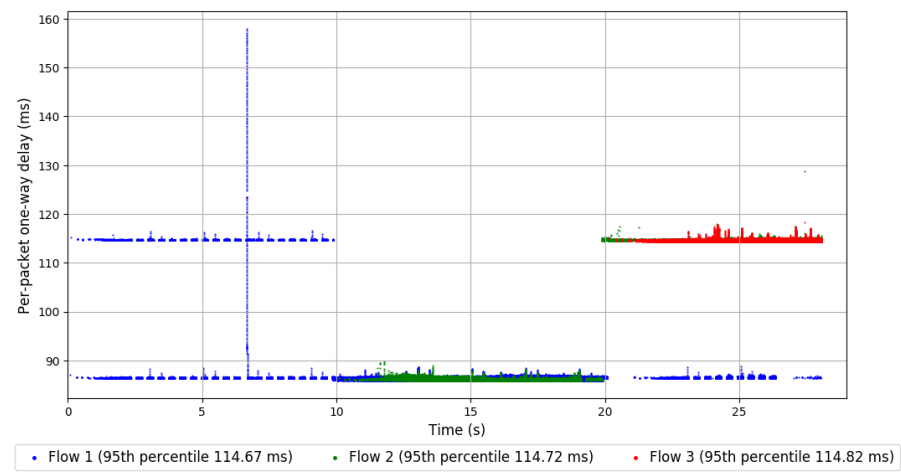
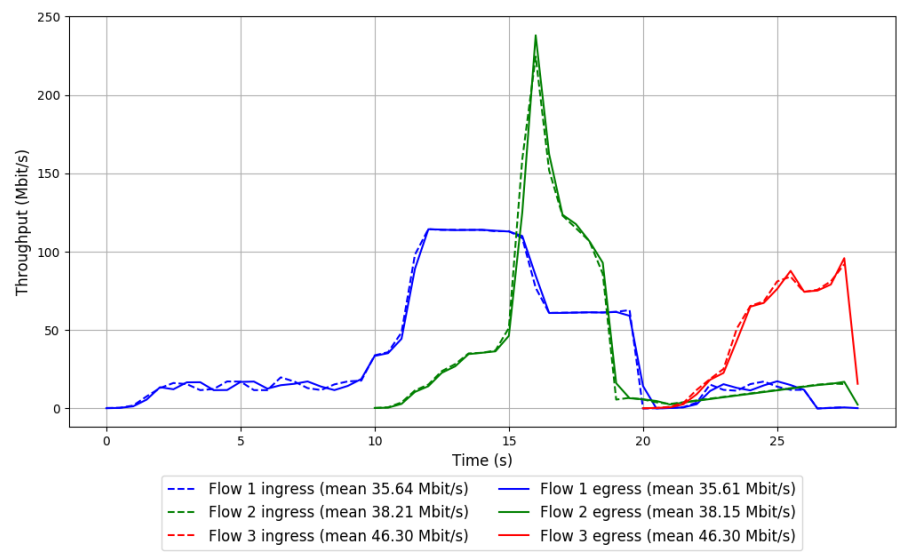
-- Flow 3:

Average throughput: 46.30 Mbit/s

95th percentile per-packet one-way delay: 114.821 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-12 00:52:16

End at: 2017-12-12 00:52:46

Below is generated by plot.py at 2017-12-12 04:16:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 114.845 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 114.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 114.908 ms

Loss rate: 0.00%

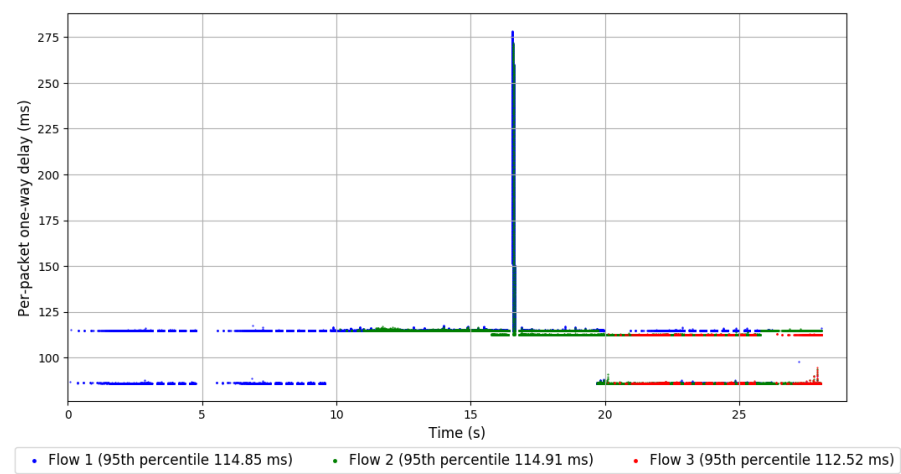
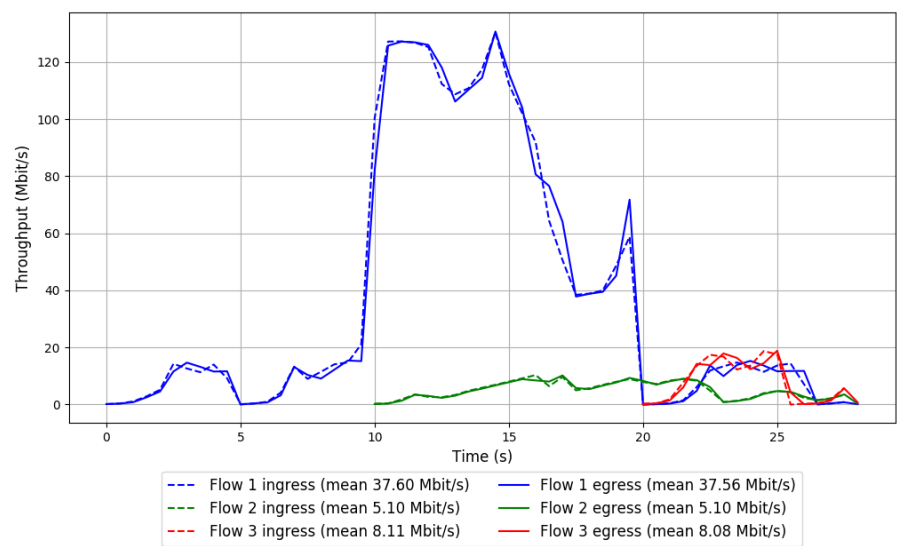
-- Flow 3:

Average throughput: 8.08 Mbit/s

95th percentile per-packet one-way delay: 112.519 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-12 01:04:51

End at: 2017-12-12 01:05:21

Below is generated by plot.py at 2017-12-12 04:16:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 114.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 114.879 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.48 Mbit/s

95th percentile per-packet one-way delay: 114.867 ms

Loss rate: 0.00%

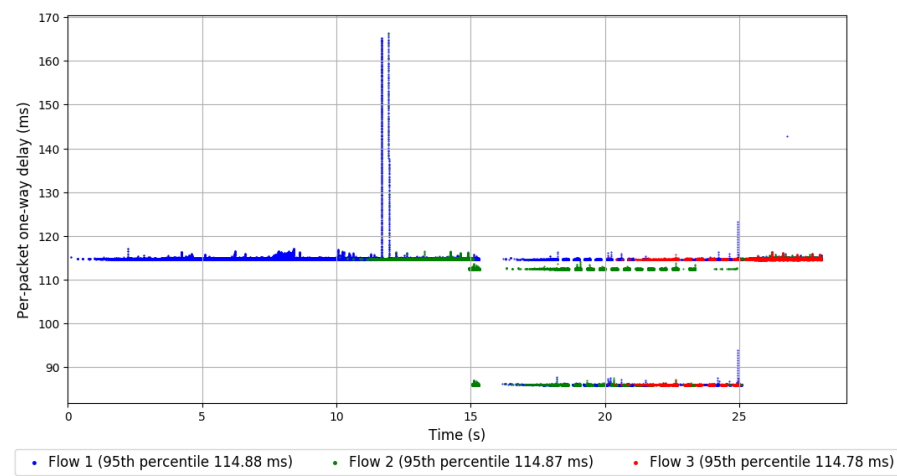
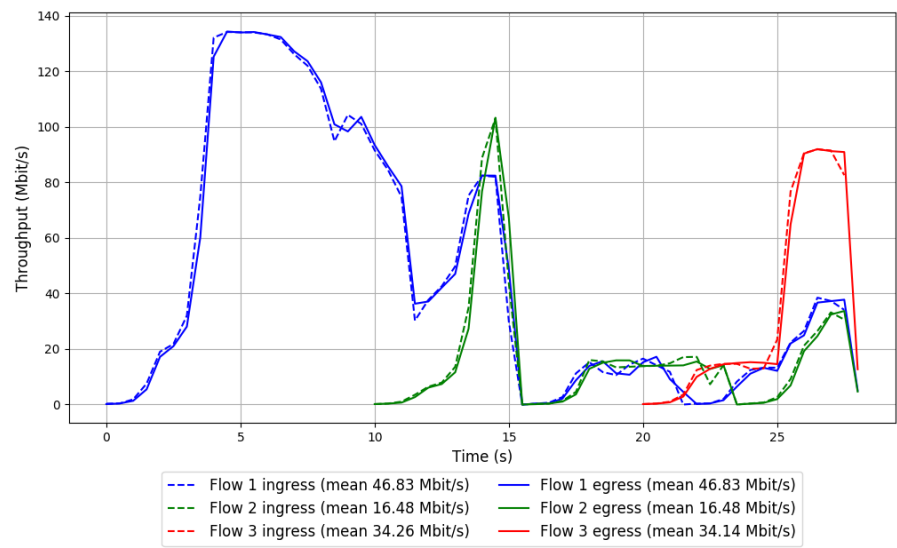
-- Flow 3:

Average throughput: 34.14 Mbit/s

95th percentile per-packet one-way delay: 114.777 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-12 01:17:50

End at: 2017-12-12 01:18:20

Below is generated by plot.py at 2017-12-12 04:17:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.92 Mbit/s

95th percentile per-packet one-way delay: 114.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.35 Mbit/s

95th percentile per-packet one-way delay: 114.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 114.700 ms

Loss rate: 0.00%

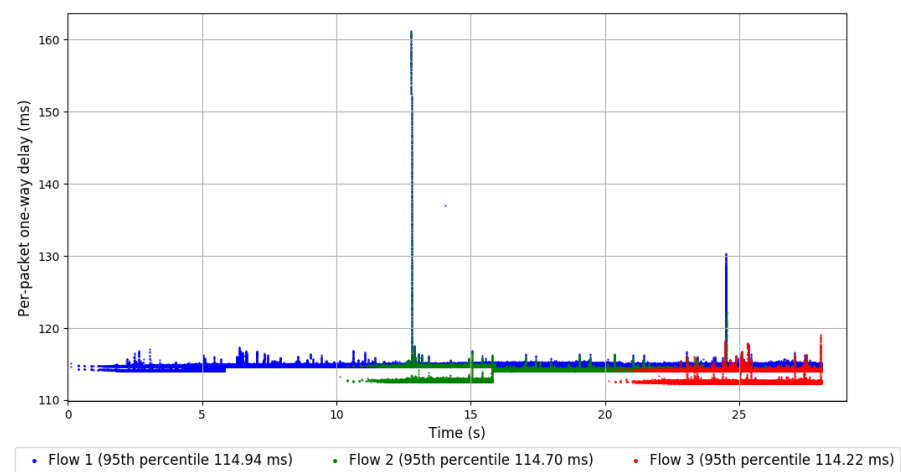
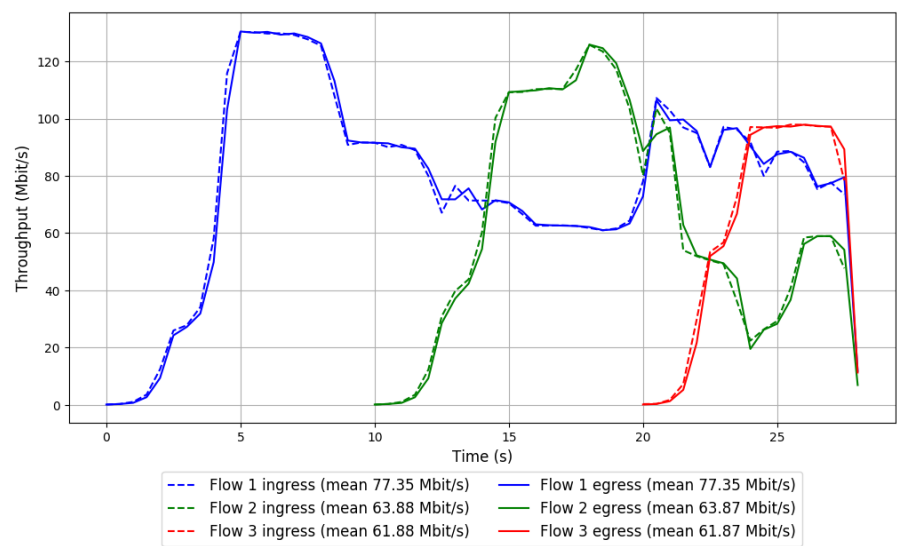
-- Flow 3:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 114.216 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-12 01:31:06

End at: 2017-12-12 01:31:36

Below is generated by plot.py at 2017-12-12 04:17:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.66 Mbit/s

95th percentile per-packet one-way delay: 114.379 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 114.155 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 114.347 ms

Loss rate: 0.01%

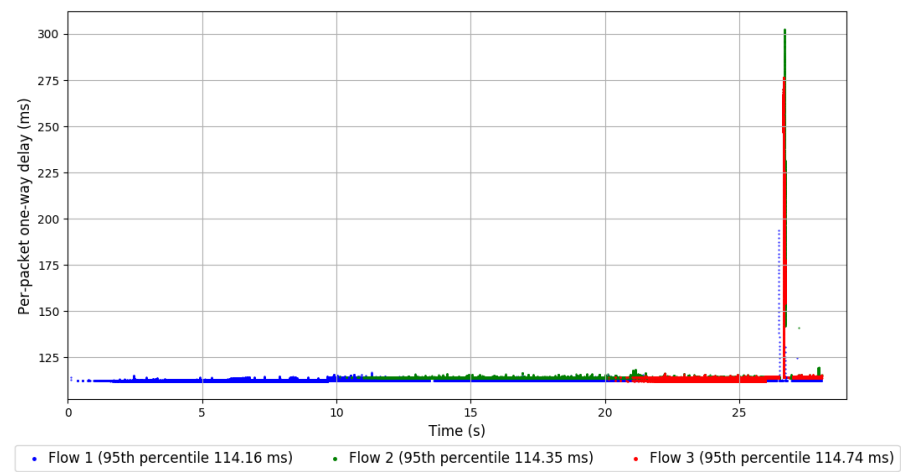
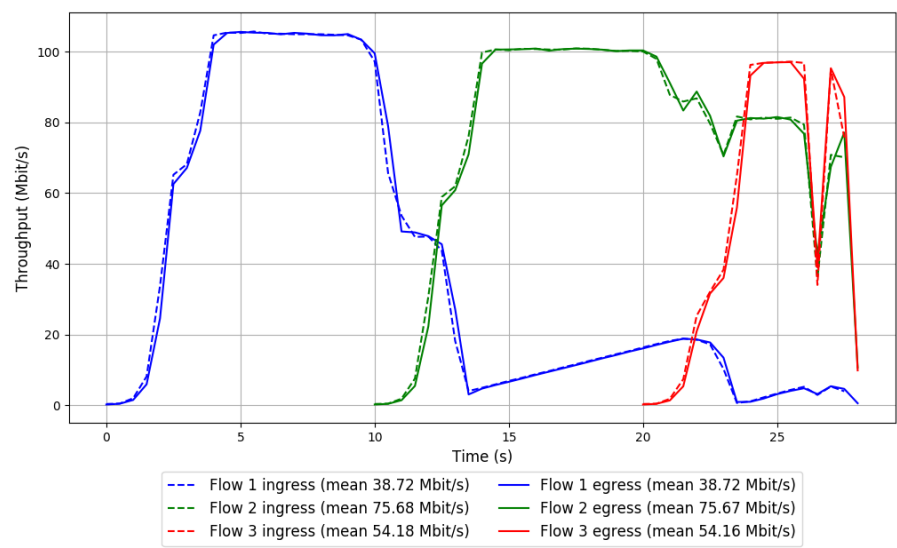
-- Flow 3:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 114.736 ms

Loss rate: 0.03%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-12 01:44:05

End at: 2017-12-12 01:44:35

Below is generated by plot.py at 2017-12-12 04:17:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.22 Mbit/s

95th percentile per-packet one-way delay: 114.792 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 114.826 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 114.201 ms

Loss rate: 0.02%

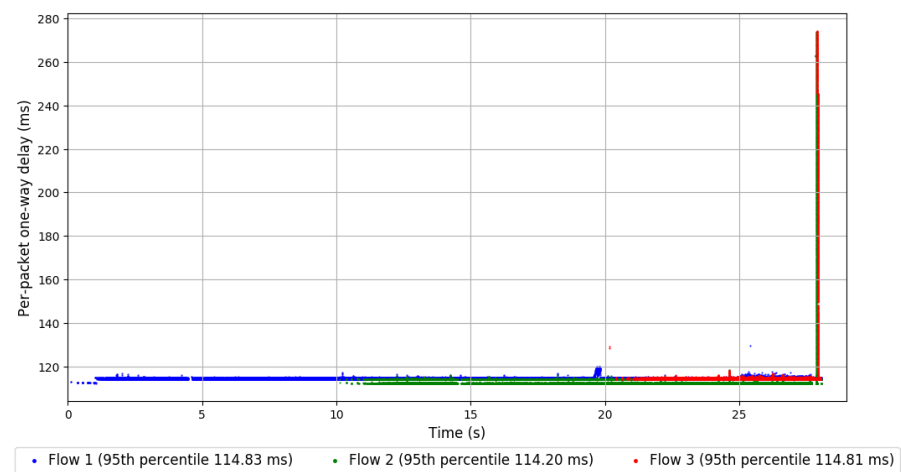
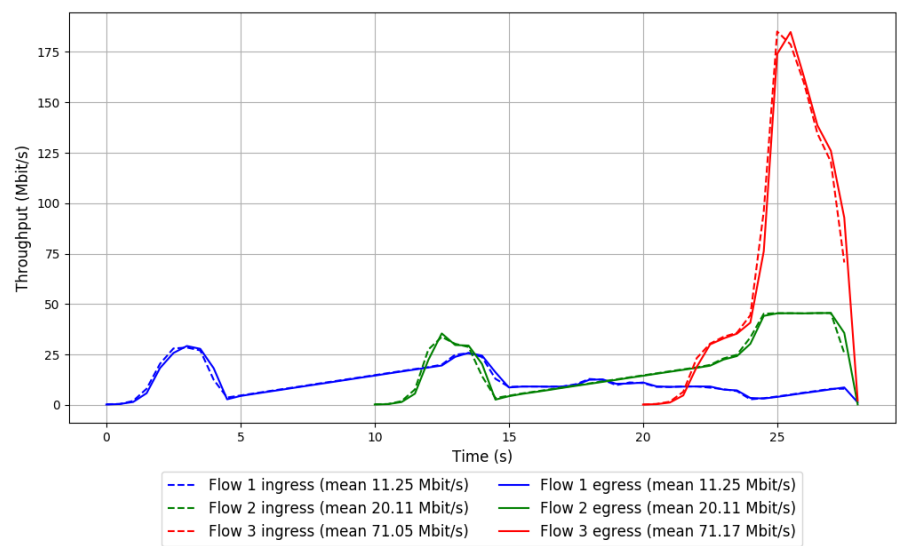
-- Flow 3:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 114.815 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-12 01:56:57

End at: 2017-12-12 01:57:27

Below is generated by plot.py at 2017-12-12 04:17:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.85 Mbit/s

95th percentile per-packet one-way delay: 114.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 114.849 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 114.798 ms

Loss rate: 0.00%

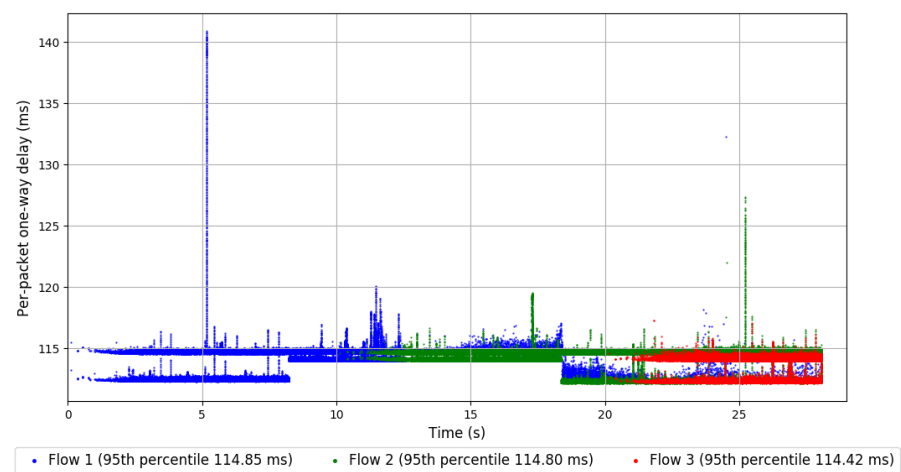
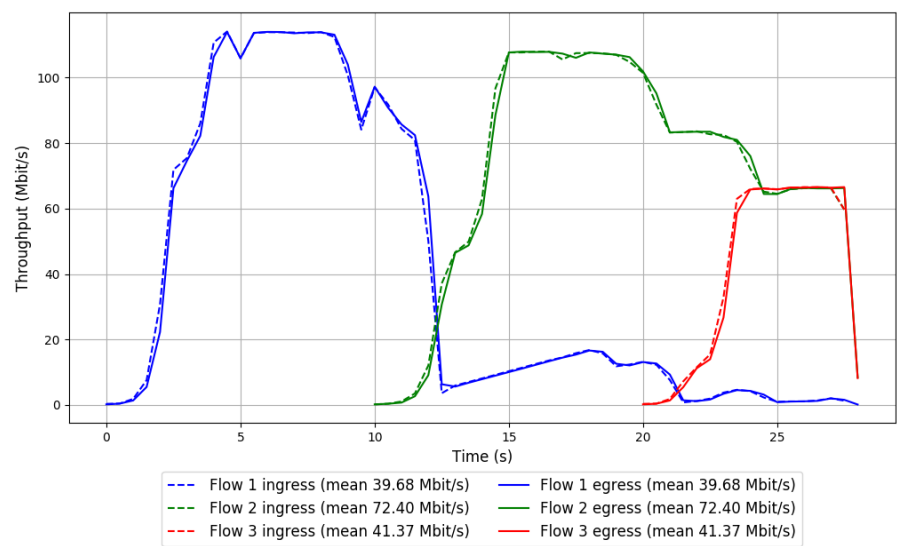
-- Flow 3:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-12 02:09:46

End at: 2017-12-12 02:10:16

Below is generated by plot.py at 2017-12-12 04:17:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 114.772 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.75 Mbit/s

95th percentile per-packet one-way delay: 114.812 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 114.725 ms

Loss rate: 0.00%

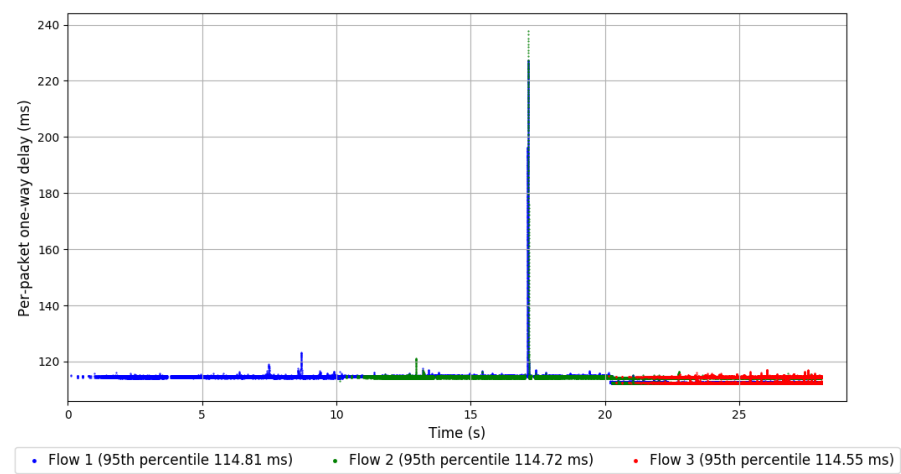
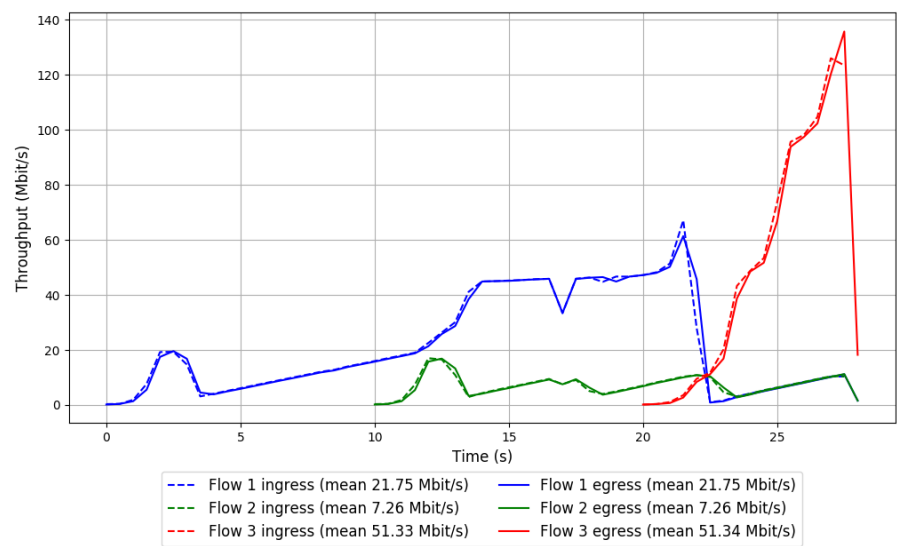
-- Flow 3:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 114.551 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

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

End at: 2017-12-12 02:23:16

Below is generated by plot.py at 2017-12-12 04:17:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 114.773 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 114.737 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 114.811 ms

Loss rate: 0.00%

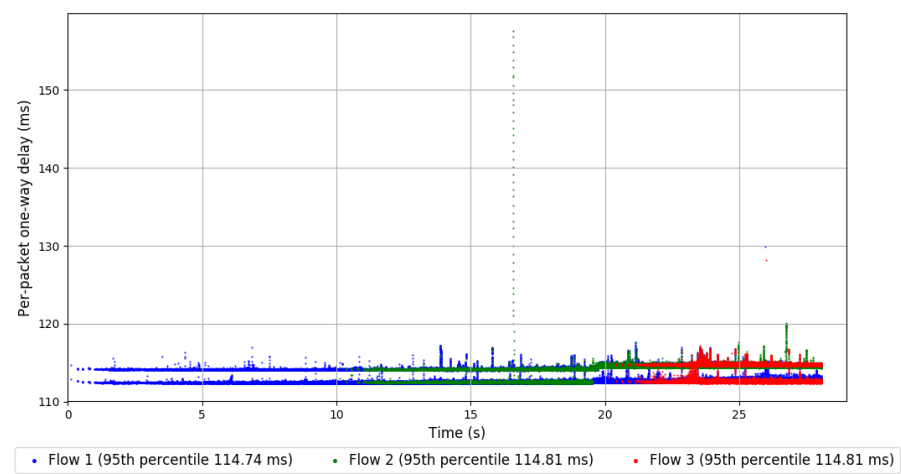
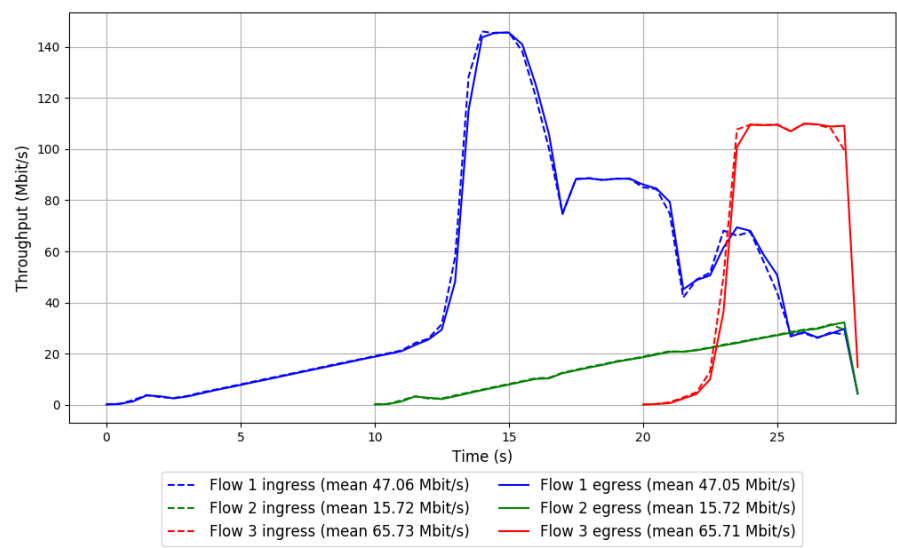
-- Flow 3:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 114.805 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-12 02:35:47

End at: 2017-12-12 02:36:17

Below is generated by plot.py at 2017-12-12 04:17:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.22 Mbit/s

95th percentile per-packet one-way delay: 114.626 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 114.874 ms

Loss rate: 0.00%

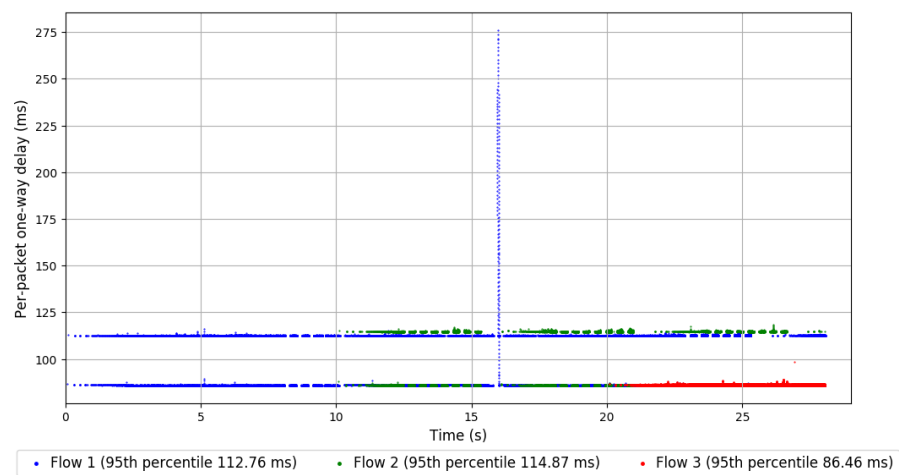
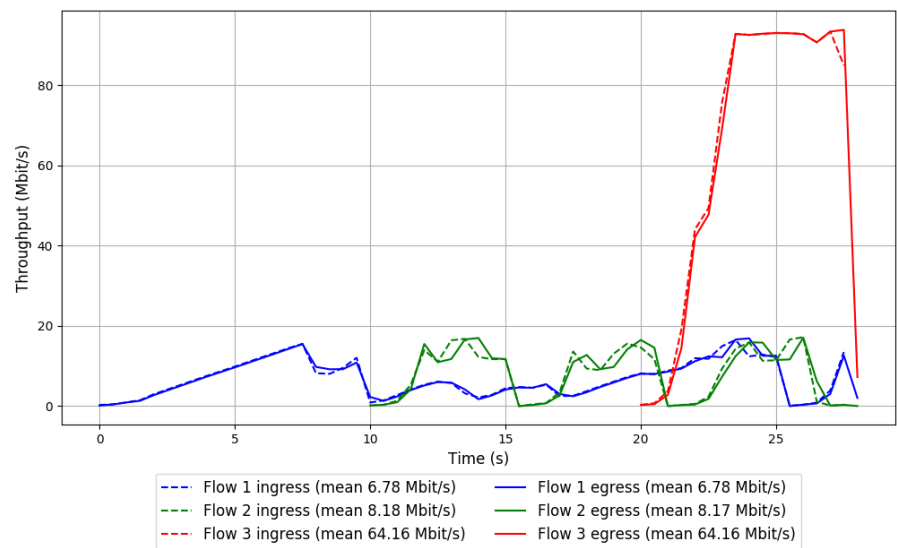
-- Flow 3:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 86.463 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

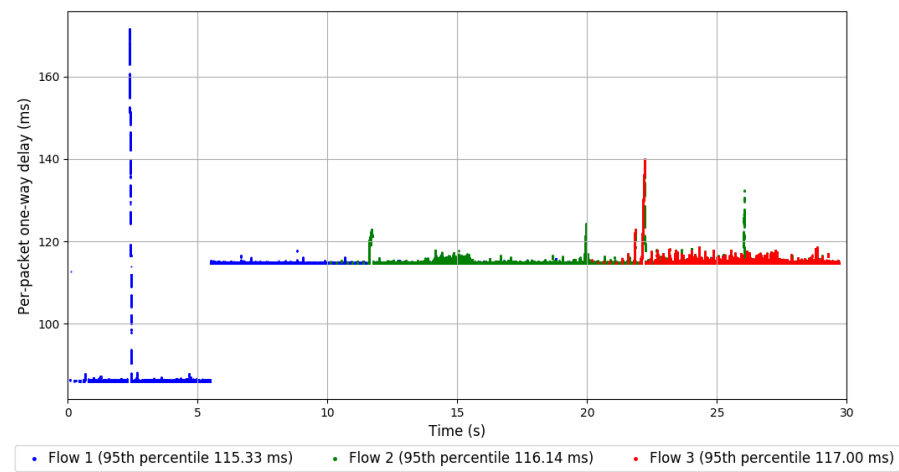
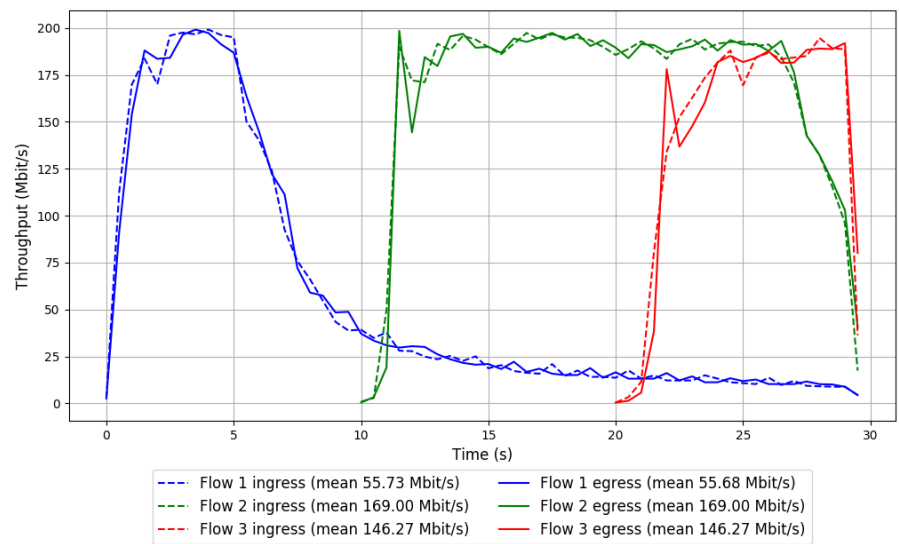


```
Run 1: Statistics of Indigo

Start at: 2017-12-12 00:47:32
End at: 2017-12-12 00:48:02

# Below is generated by plot.py at 2017-12-12 04:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 214.45 Mbit/s
95th percentile per-packet one-way delay: 116.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 115.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 169.00 Mbit/s
95th percentile per-packet one-way delay: 116.139 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.27 Mbit/s
95th percentile per-packet one-way delay: 116.996 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

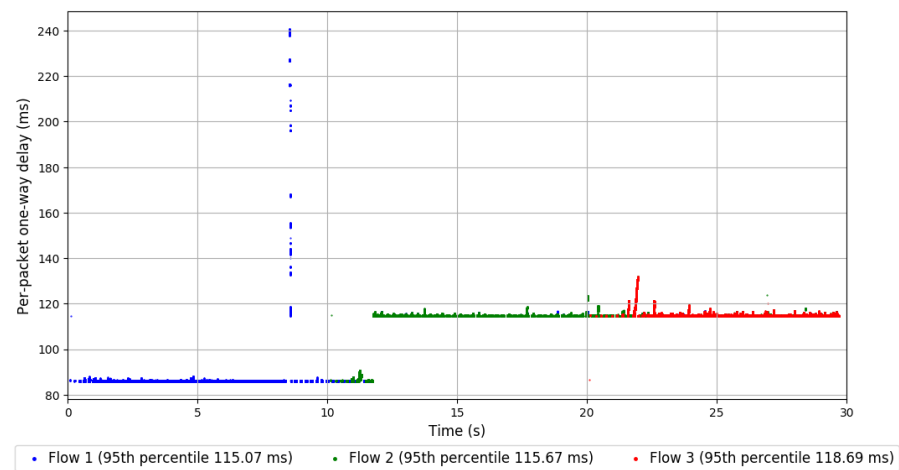
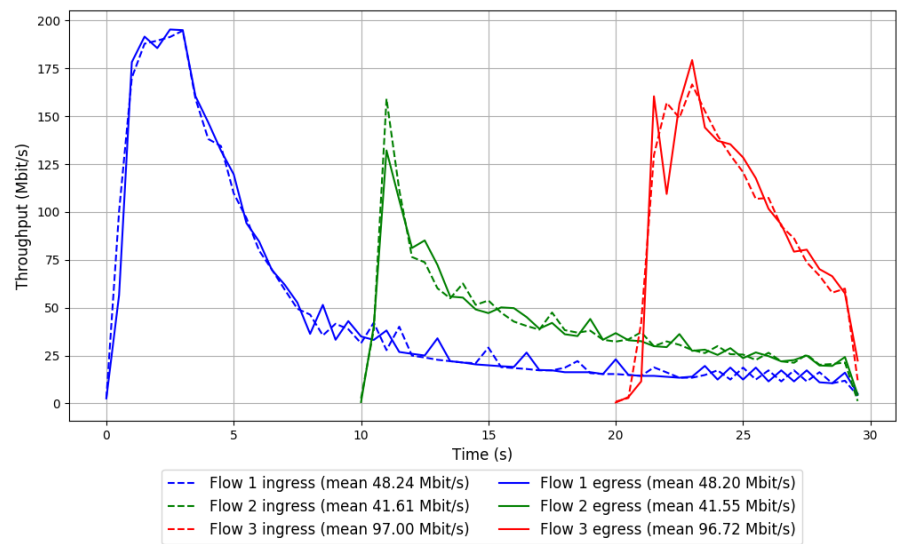


```
Run 2: Statistics of Indigo

Start at: 2017-12-12 01:00:26
End at: 2017-12-12 01:00:56

# Below is generated by plot.py at 2017-12-12 04:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.78 Mbit/s
95th percentile per-packet one-way delay: 115.740 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 115.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.55 Mbit/s
95th percentile per-packet one-way delay: 115.666 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 118.688 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-12 01:12:59

End at: 2017-12-12 01:13:29

Below is generated by plot.py at 2017-12-12 04:21:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.81 Mbit/s

95th percentile per-packet one-way delay: 91.647 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 161.25 Mbit/s

95th percentile per-packet one-way delay: 88.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.51 Mbit/s

95th percentile per-packet one-way delay: 89.934 ms

Loss rate: 0.00%

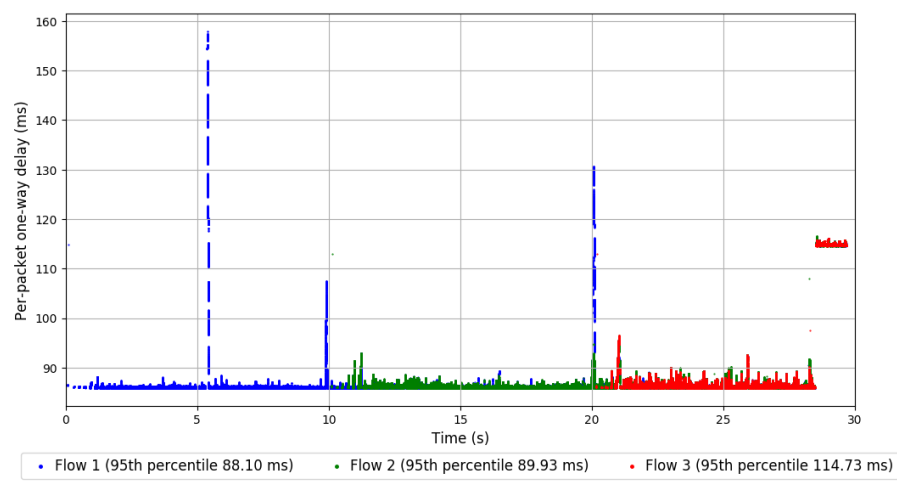
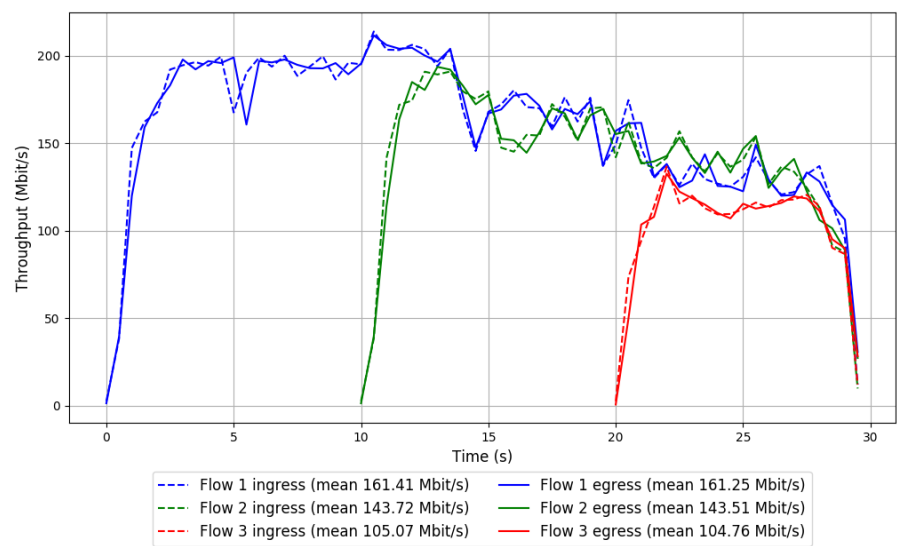
-- Flow 3:

Average throughput: 104.76 Mbit/s

95th percentile per-packet one-way delay: 114.730 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-12 01:26:24

End at: 2017-12-12 01:26:54

Below is generated by plot.py at 2017-12-12 04:21:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.52 Mbit/s

95th percentile per-packet one-way delay: 117.035 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.45 Mbit/s

95th percentile per-packet one-way delay: 116.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.67 Mbit/s

95th percentile per-packet one-way delay: 117.159 ms

Loss rate: 0.00%

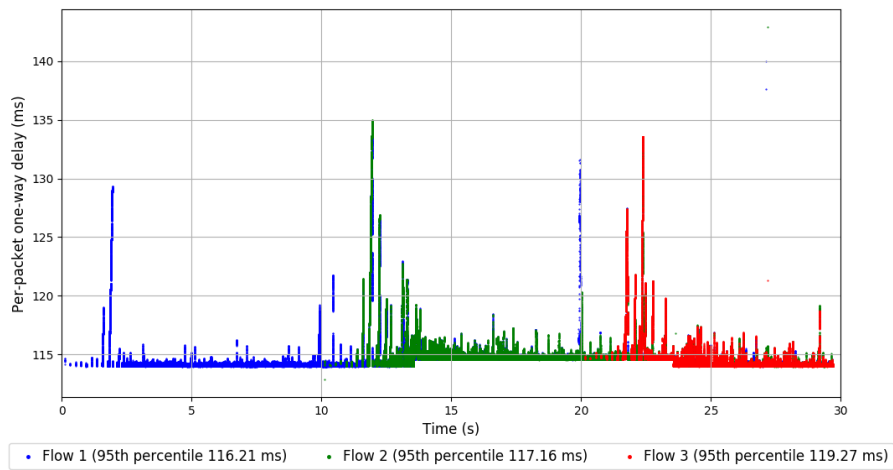
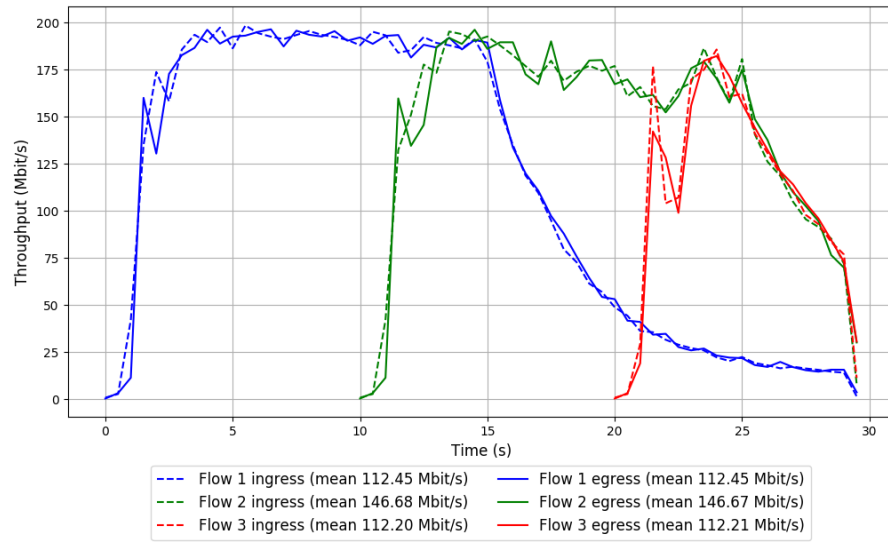
-- Flow 3:

Average throughput: 112.21 Mbit/s

95th percentile per-packet one-way delay: 119.271 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-12 01:39:32

End at: 2017-12-12 01:40:02

Below is generated by plot.py at 2017-12-12 04:21:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.16 Mbit/s

95th percentile per-packet one-way delay: 115.668 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 115.563 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 115.306 ms

Loss rate: 0.00%

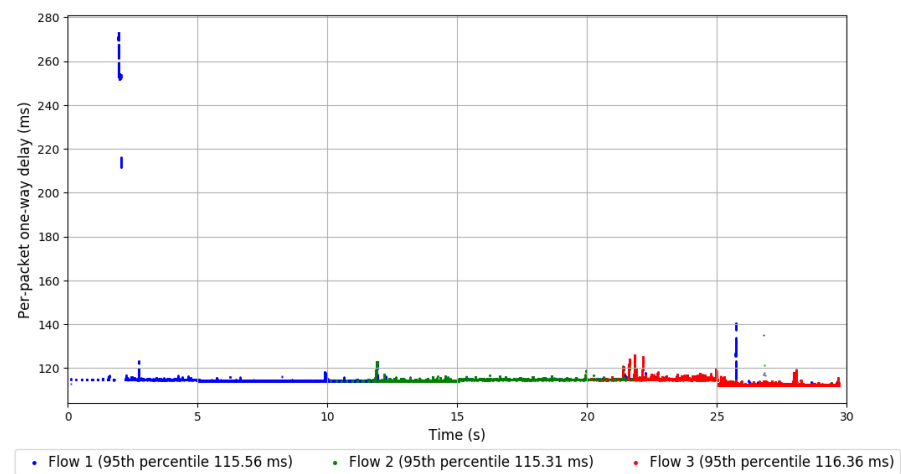
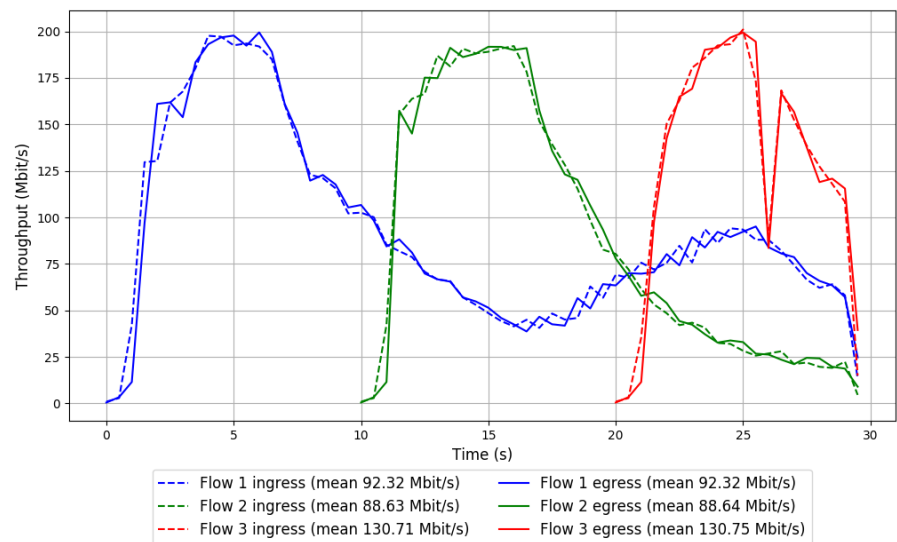
-- Flow 3:

Average throughput: 130.75 Mbit/s

95th percentile per-packet one-way delay: 116.356 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-12 01:52:12

End at: 2017-12-12 01:52:42

Below is generated by plot.py at 2017-12-12 04:22:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.94 Mbit/s

95th percentile per-packet one-way delay: 125.511 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 159.91 Mbit/s

95th percentile per-packet one-way delay: 120.773 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 152.17 Mbit/s

95th percentile per-packet one-way delay: 127.831 ms

Loss rate: 0.02%

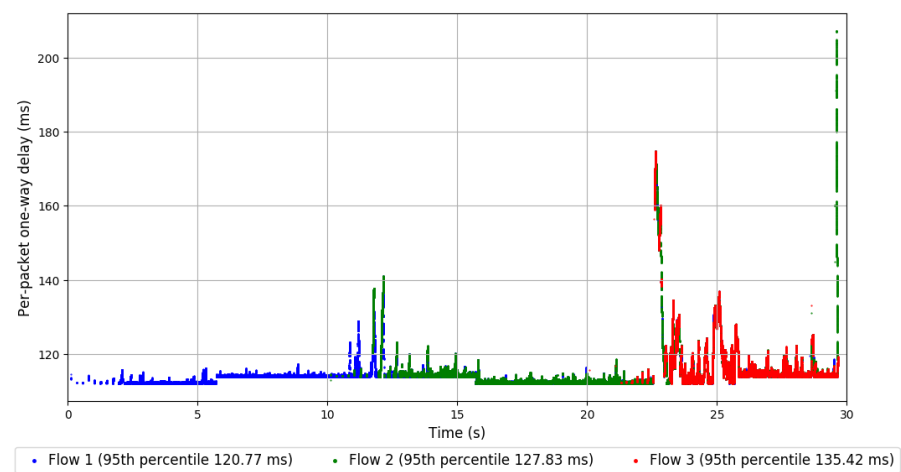
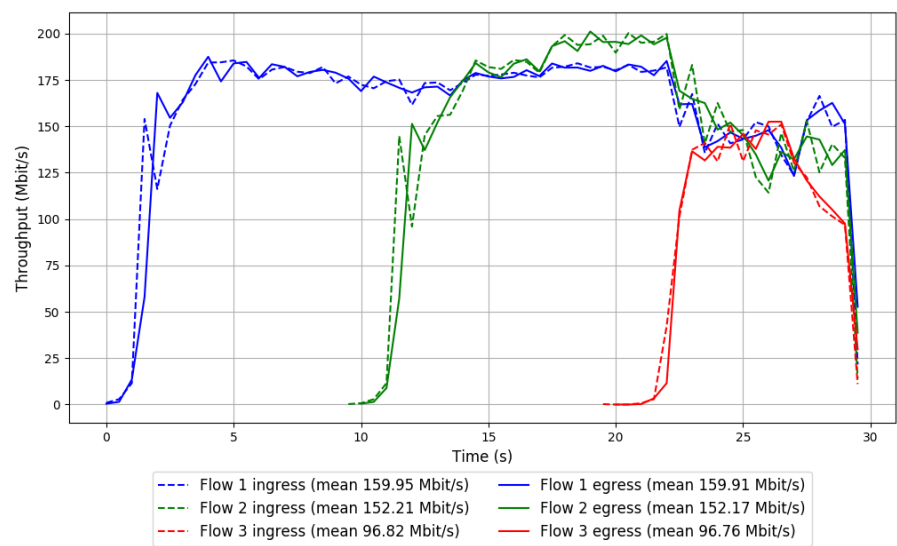
-- Flow 3:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 135.422 ms

Loss rate: 0.05%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-12 02:05:08

End at: 2017-12-12 02:05:38

Below is generated by plot.py at 2017-12-12 04:22:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.63 Mbit/s

95th percentile per-packet one-way delay: 118.321 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 163.70 Mbit/s

95th percentile per-packet one-way delay: 117.180 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 118.216 ms

Loss rate: 0.00%

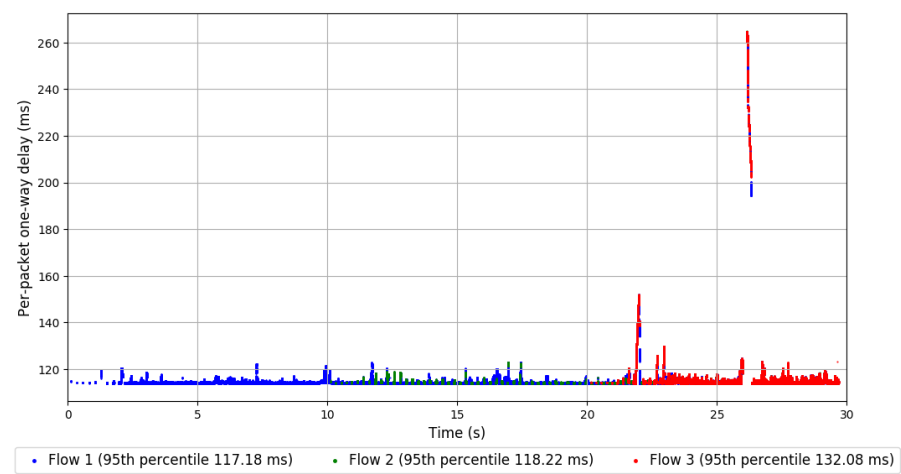
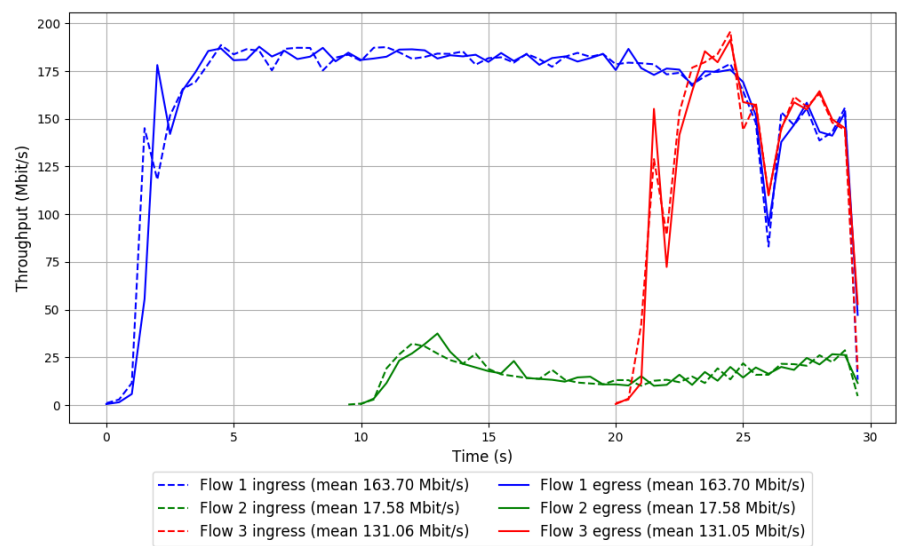
-- Flow 3:

Average throughput: 131.05 Mbit/s

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

Loss rate: 0.04%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-12 02:18:00

End at: 2017-12-12 02:18:30

Below is generated by plot.py at 2017-12-12 04:22:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.40 Mbit/s

95th percentile per-packet one-way delay: 118.587 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 167.15 Mbit/s

95th percentile per-packet one-way delay: 116.892 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 151.88 Mbit/s

95th percentile per-packet one-way delay: 119.538 ms

Loss rate: 0.00%

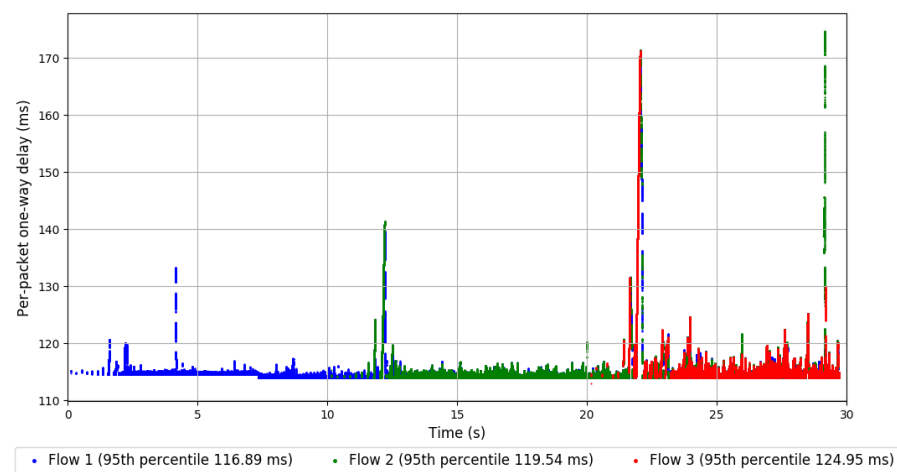
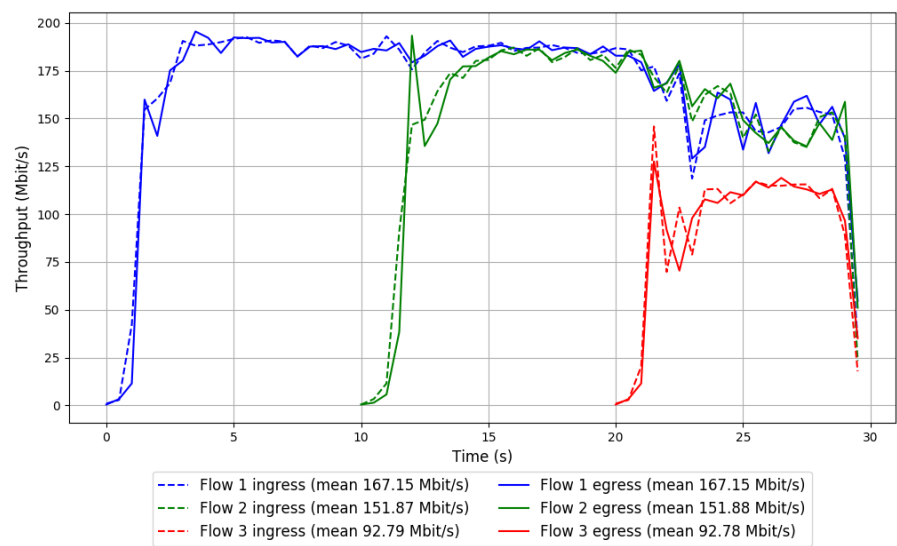
-- Flow 3:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 124.946 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-12 02:31:08

End at: 2017-12-12 02:31:39

Below is generated by plot.py at 2017-12-12 04:22:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.09 Mbit/s

95th percentile per-packet one-way delay: 114.760 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 114.782 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 87.792 ms

Loss rate: 0.00%

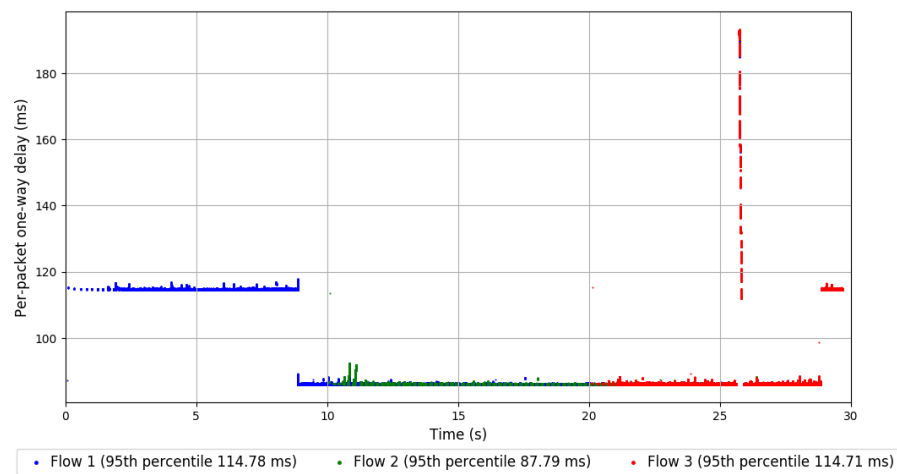
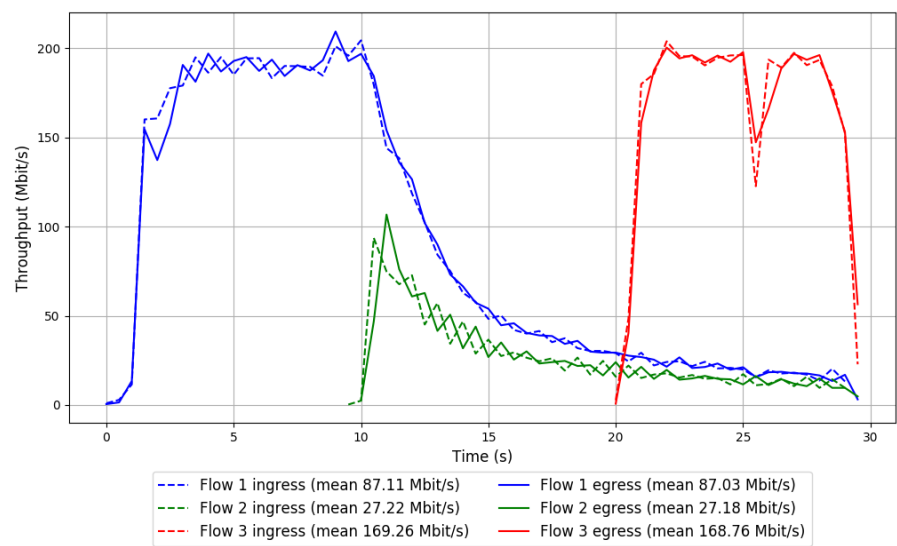
-- Flow 3:

Average throughput: 168.76 Mbit/s

95th percentile per-packet one-way delay: 114.706 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

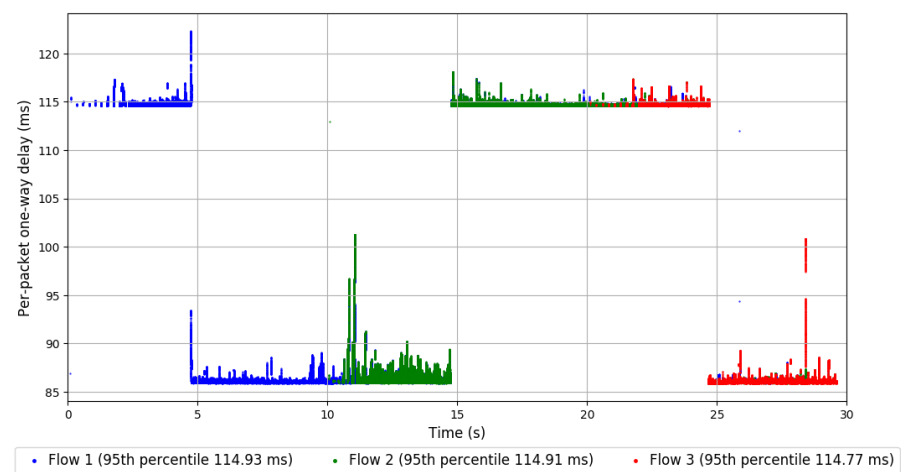
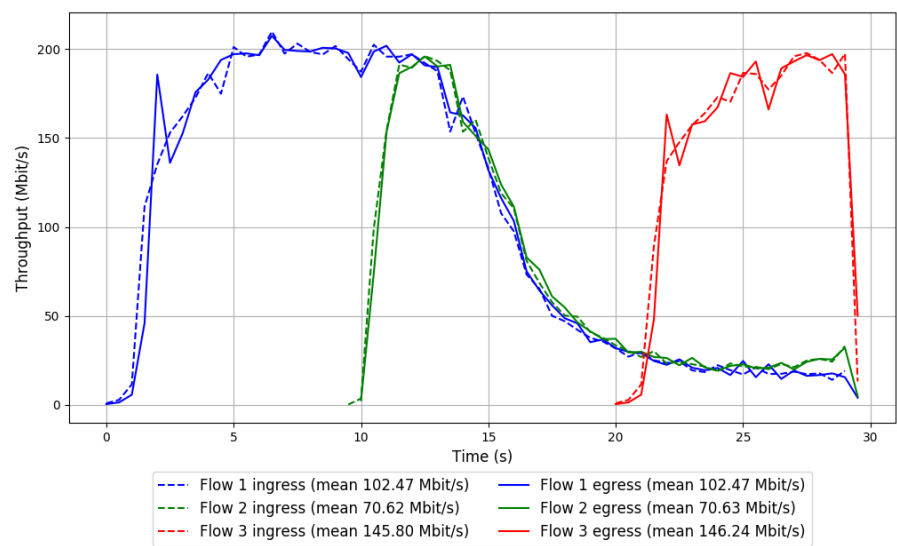


```
Run 10: Statistics of Indigo

Start at: 2017-12-12 02:43:43
End at: 2017-12-12 02:44:13

# Below is generated by plot.py at 2017-12-12 04:22:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.85 Mbit/s
95th percentile per-packet one-way delay: 114.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.47 Mbit/s
95th percentile per-packet one-way delay: 114.927 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 114.914 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.24 Mbit/s
95th percentile per-packet one-way delay: 114.768 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link

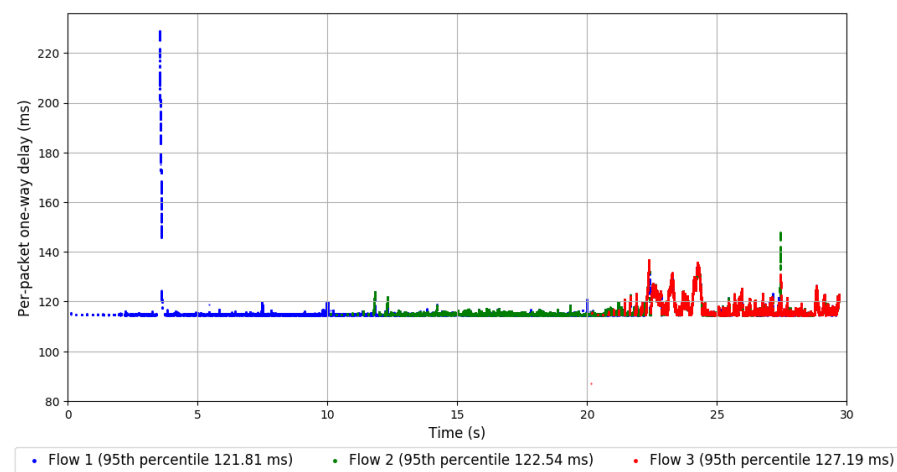
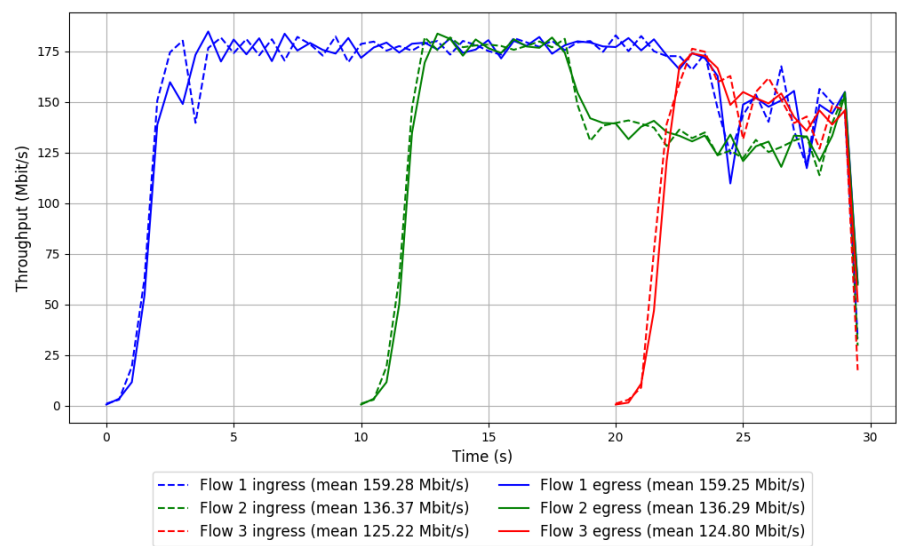


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-12 00:37:31
End at: 2017-12-12 00:38:01

# Below is generated by plot.py at 2017-12-12 04:25:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.64 Mbit/s
95th percentile per-packet one-way delay: 123.289 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 159.25 Mbit/s
95th percentile per-packet one-way delay: 121.805 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 136.29 Mbit/s
95th percentile per-packet one-way delay: 122.540 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 124.80 Mbit/s
95th percentile per-packet one-way delay: 127.191 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo-calib — Data Link

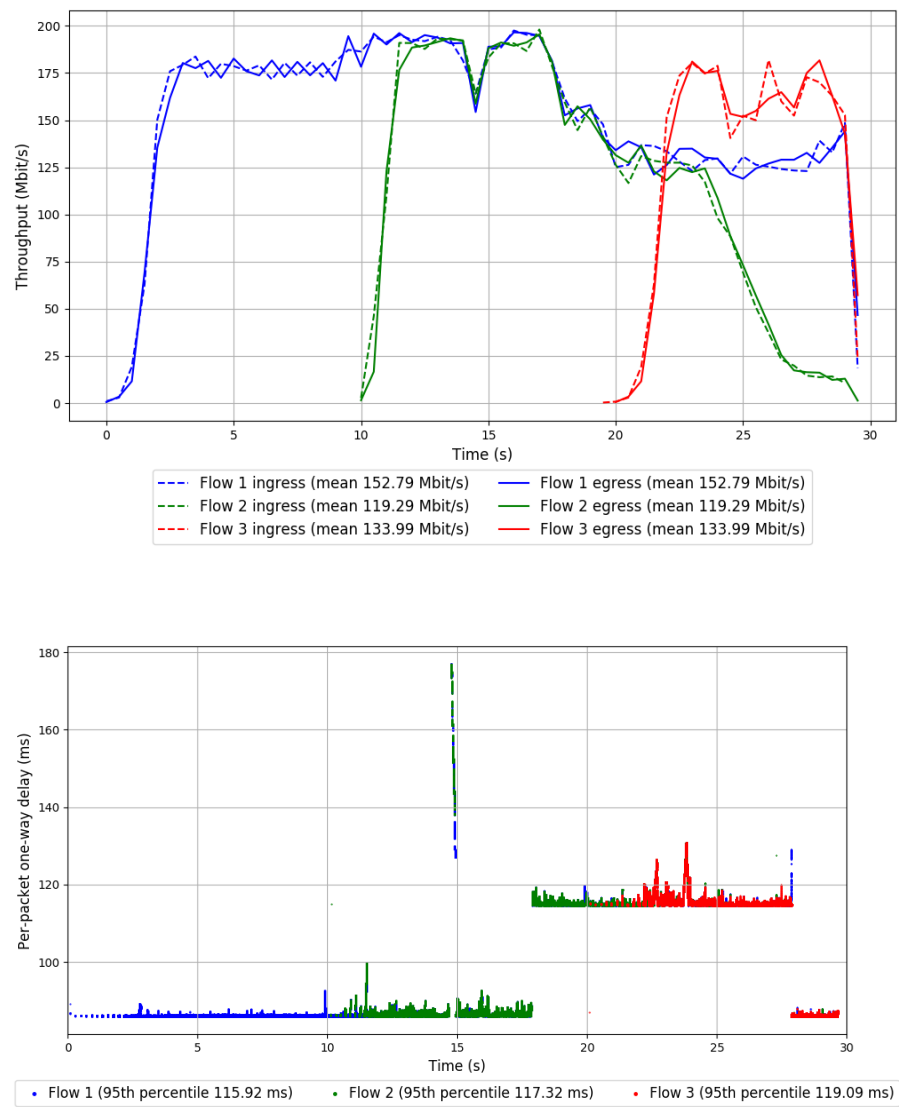


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-12 00:50:19
End at: 2017-12-12 00:50:49

# Below is generated by plot.py at 2017-12-12 04:25:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.64 Mbit/s
95th percentile per-packet one-way delay: 116.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.79 Mbit/s
95th percentile per-packet one-way delay: 115.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 119.29 Mbit/s
95th percentile per-packet one-way delay: 117.317 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.99 Mbit/s
95th percentile per-packet one-way delay: 119.092 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

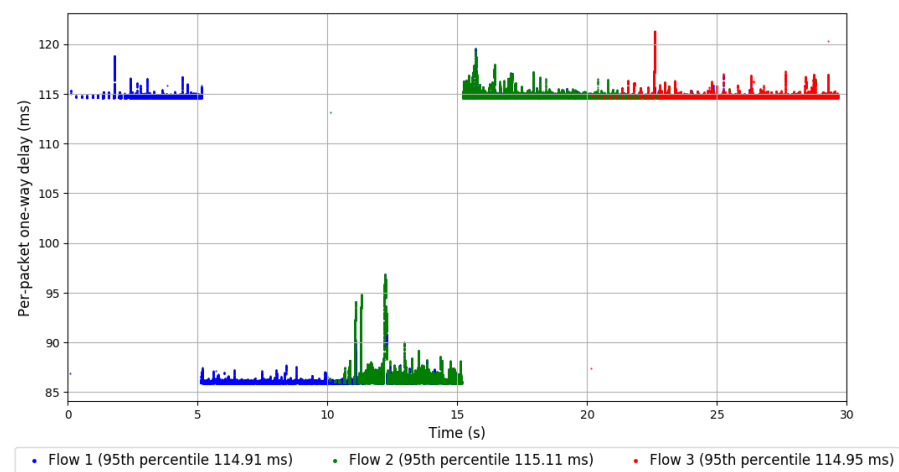
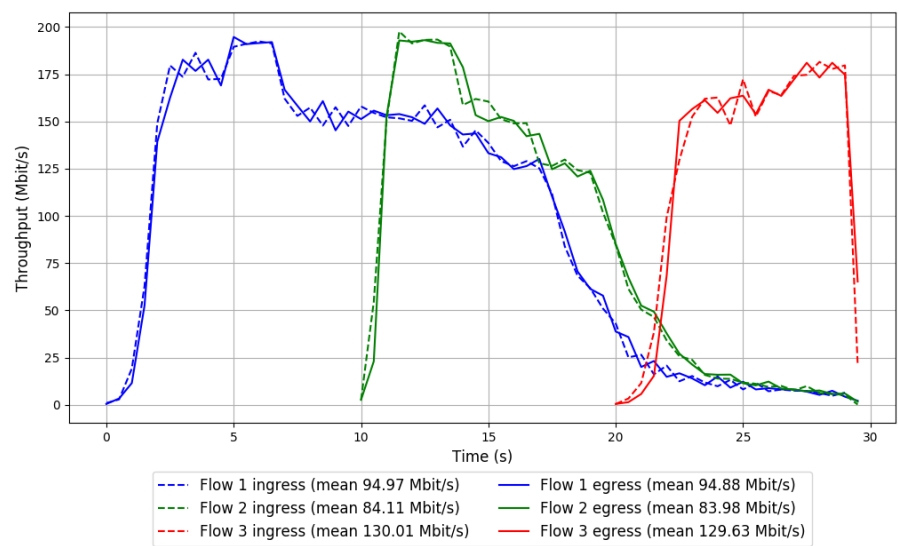


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-12 01:03:02
End at: 2017-12-12 01:03:32

# Below is generated by plot.py at 2017-12-12 04:25:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.89 Mbit/s
95th percentile per-packet one-way delay: 114.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 114.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.98 Mbit/s
95th percentile per-packet one-way delay: 115.111 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.63 Mbit/s
95th percentile per-packet one-way delay: 114.949 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link

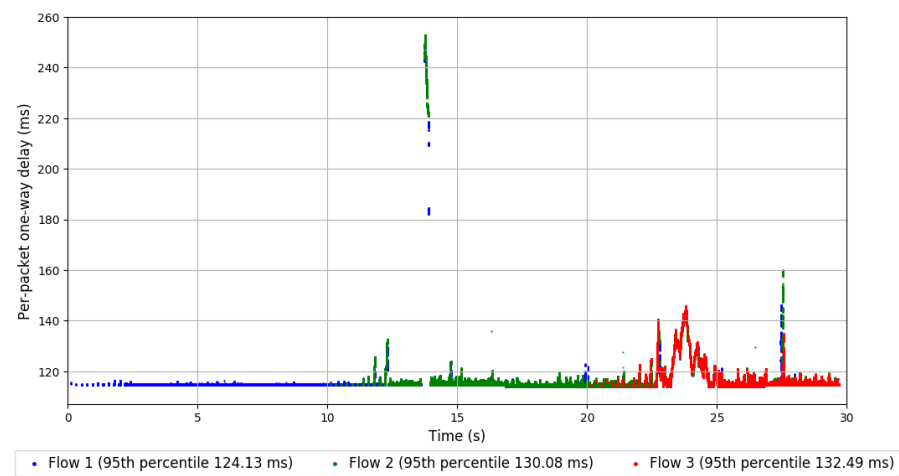
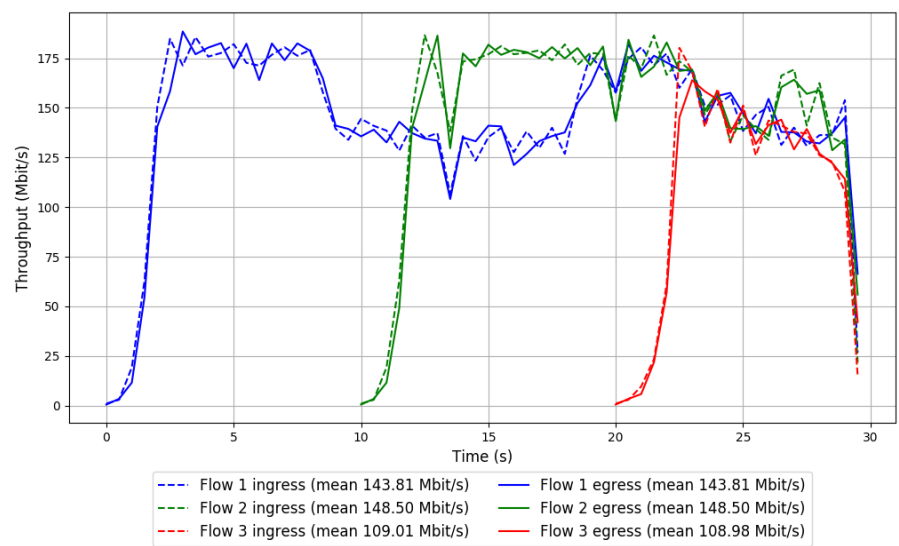


```
Run 4: Statistics of Indigo-calib

Start at: 2017-12-12 01:15:51
End at: 2017-12-12 01:16:21

# Below is generated by plot.py at 2017-12-12 04:25:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.32 Mbit/s
95th percentile per-packet one-way delay: 129.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.81 Mbit/s
95th percentile per-packet one-way delay: 124.133 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.50 Mbit/s
95th percentile per-packet one-way delay: 130.076 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.98 Mbit/s
95th percentile per-packet one-way delay: 132.489 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-12 01:29:13

End at: 2017-12-12 01:29:43

Below is generated by plot.py at 2017-12-12 04:26:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.02 Mbit/s

95th percentile per-packet one-way delay: 118.679 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.66 Mbit/s

95th percentile per-packet one-way delay: 116.517 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.42 Mbit/s

95th percentile per-packet one-way delay: 119.350 ms

Loss rate: 0.00%

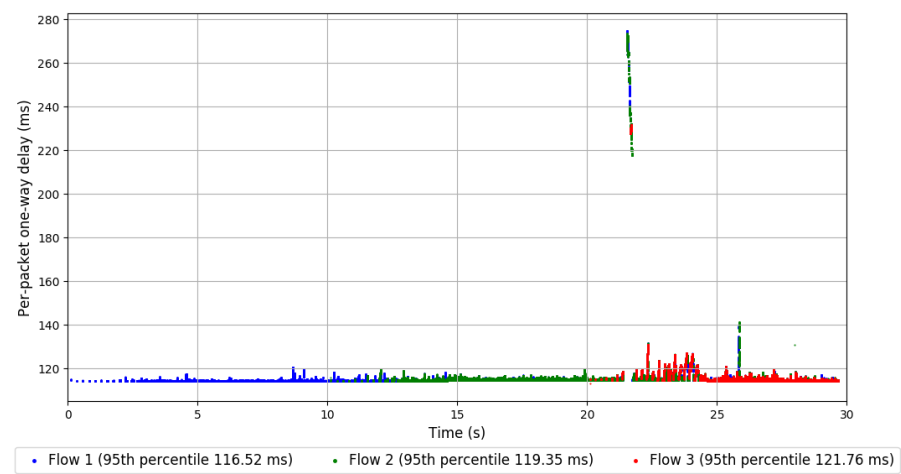
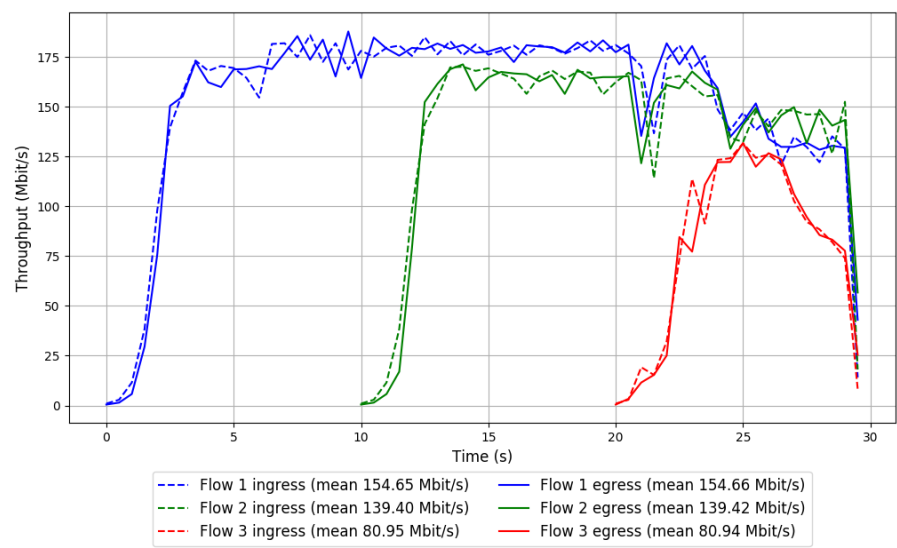
-- Flow 3:

Average throughput: 80.94 Mbit/s

95th percentile per-packet one-way delay: 121.759 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link

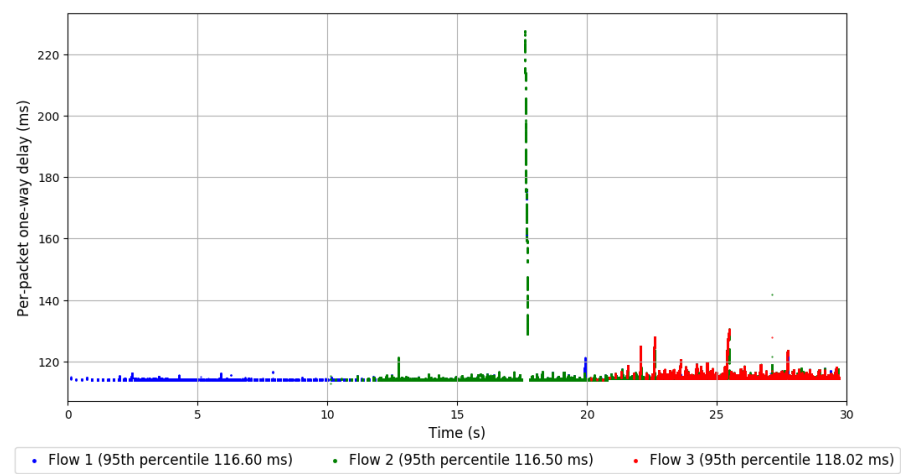
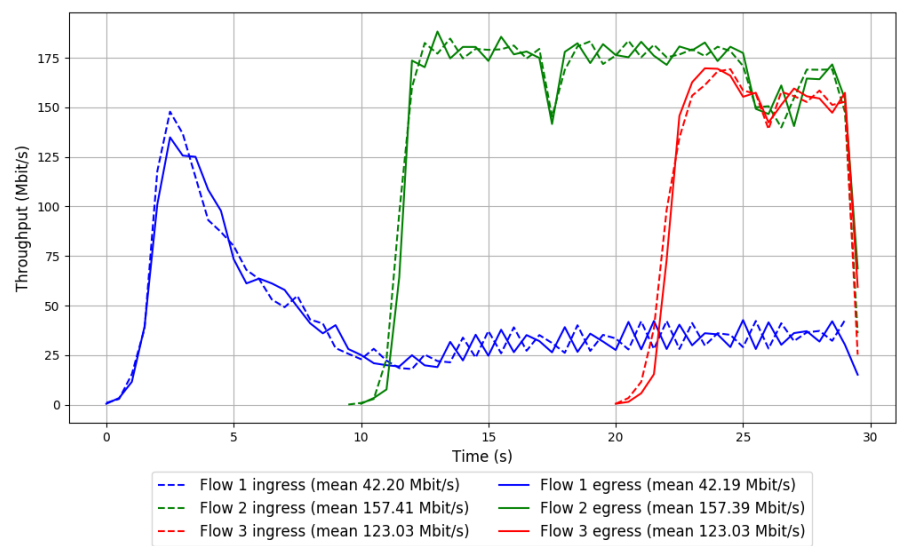


```
Run 6: Statistics of Indigo-calib

Start at: 2017-12-12 01:42:17
End at: 2017-12-12 01:42:47

# Below is generated by plot.py at 2017-12-12 04:26:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 185.96 Mbit/s
95th percentile per-packet one-way delay: 116.930 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.19 Mbit/s
95th percentile per-packet one-way delay: 116.599 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 157.39 Mbit/s
95th percentile per-packet one-way delay: 116.500 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 123.03 Mbit/s
95th percentile per-packet one-way delay: 118.017 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-12 01:55:04

End at: 2017-12-12 01:55:34

Below is generated by plot.py at 2017-12-12 04:26:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.50 Mbit/s

95th percentile per-packet one-way delay: 120.611 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 144.06 Mbit/s

95th percentile per-packet one-way delay: 117.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.22 Mbit/s

95th percentile per-packet one-way delay: 121.030 ms

Loss rate: 0.01%

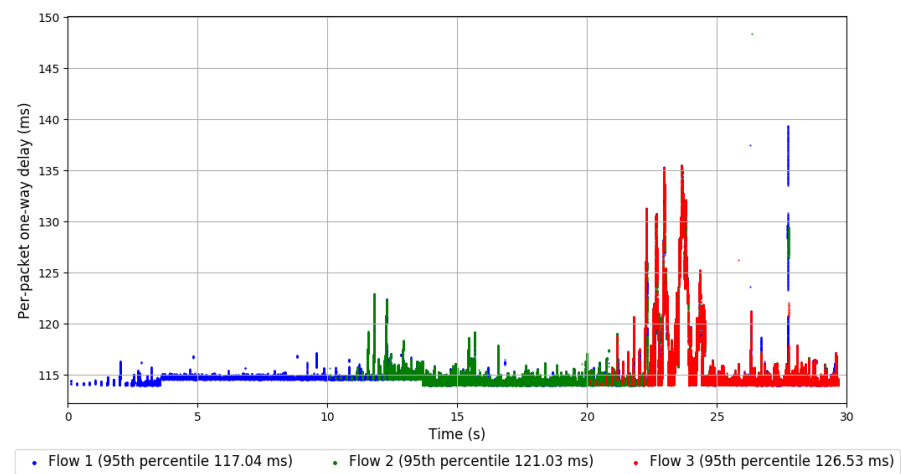
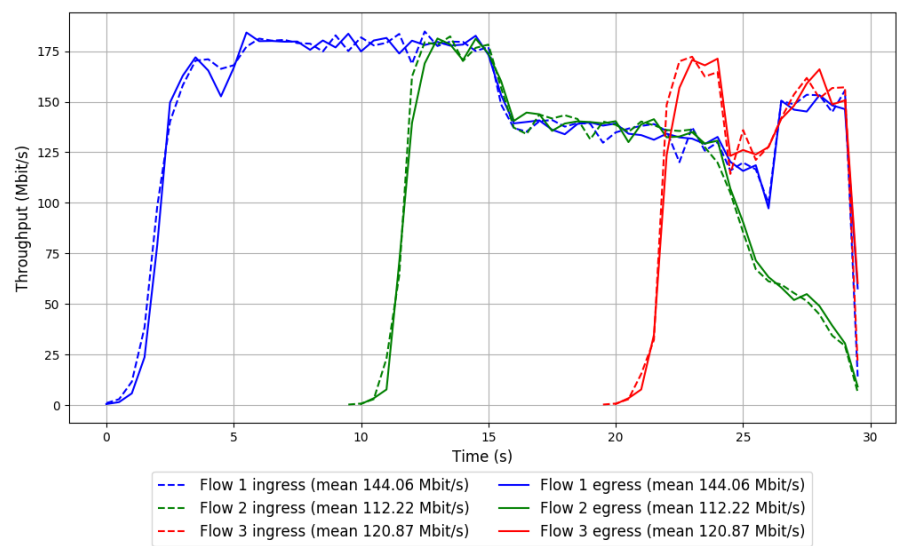
-- Flow 3:

Average throughput: 120.87 Mbit/s

95th percentile per-packet one-way delay: 126.527 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-12 02:07:54

End at: 2017-12-12 02:08:24

Below is generated by plot.py at 2017-12-12 04:26:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.17 Mbit/s

95th percentile per-packet one-way delay: 115.684 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 115.261 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 156.21 Mbit/s

95th percentile per-packet one-way delay: 115.658 ms

Loss rate: 0.00%

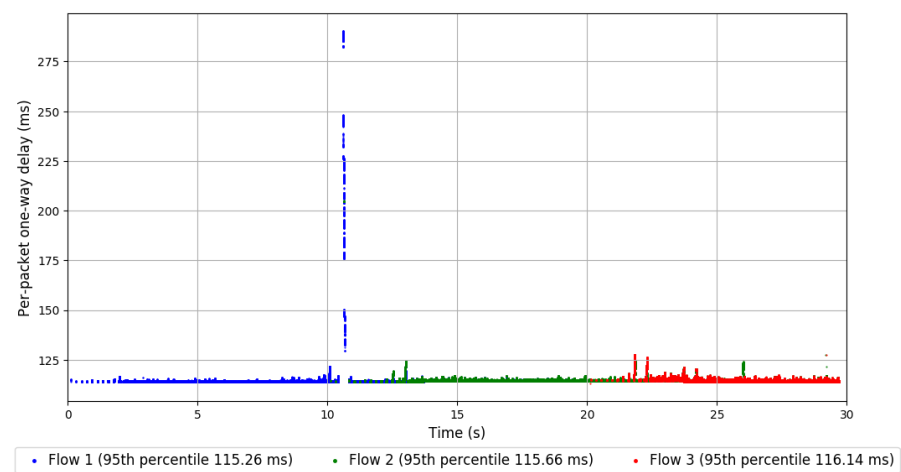
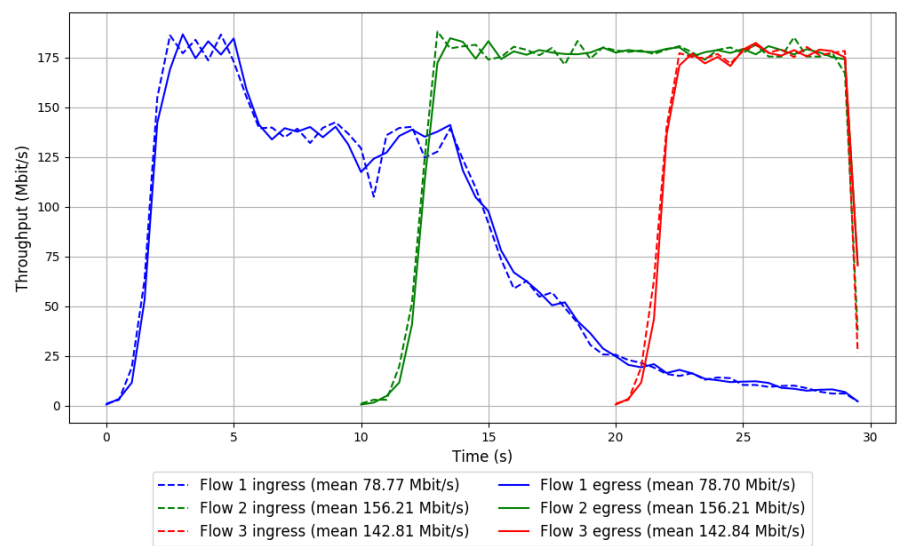
-- Flow 3:

Average throughput: 142.84 Mbit/s

95th percentile per-packet one-way delay: 116.144 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-12 02:20:53

End at: 2017-12-12 02:21:23

Below is generated by plot.py at 2017-12-12 04:26:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.56 Mbit/s

95th percentile per-packet one-way delay: 116.367 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 161.68 Mbit/s

95th percentile per-packet one-way delay: 115.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.73 Mbit/s

95th percentile per-packet one-way delay: 116.115 ms

Loss rate: 0.01%

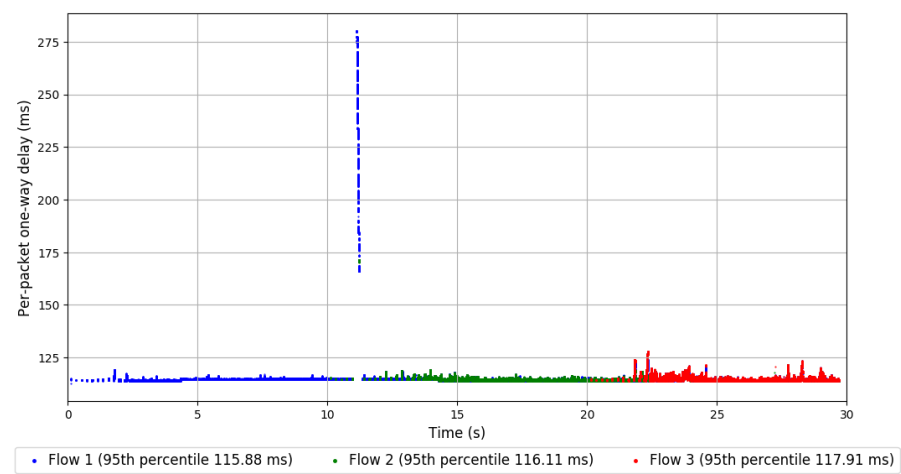
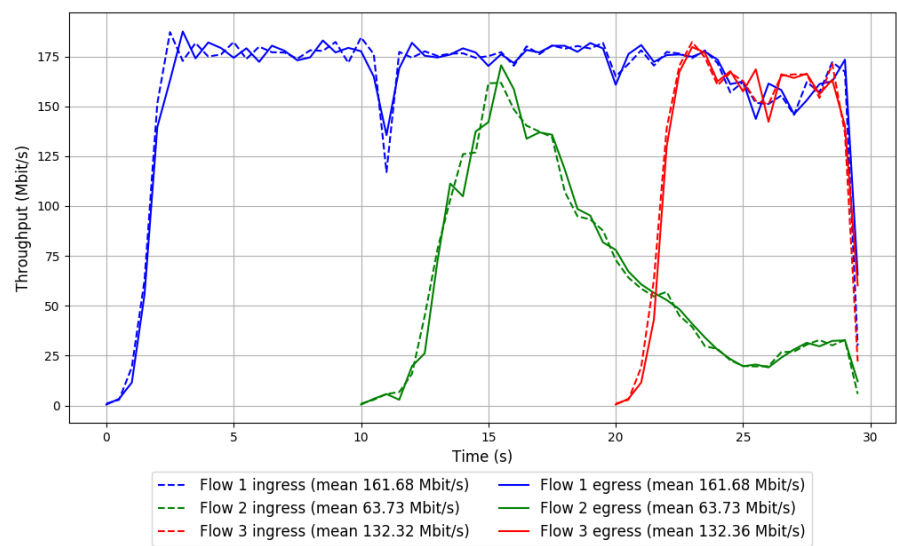
-- Flow 3:

Average throughput: 132.36 Mbit/s

95th percentile per-packet one-way delay: 117.906 ms

Loss rate: 0.02%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-12 02:33:52

End at: 2017-12-12 02:34:22

Below is generated by plot.py at 2017-12-12 04:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.45 Mbit/s

95th percentile per-packet one-way delay: 115.283 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 158.09 Mbit/s

95th percentile per-packet one-way delay: 115.014 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 104.06 Mbit/s

95th percentile per-packet one-way delay: 115.157 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 135.30 Mbit/s

95th percentile per-packet one-way delay: 116.181 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

