

Pantheon Report

Generated at 2017-09-22 06:08:54 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

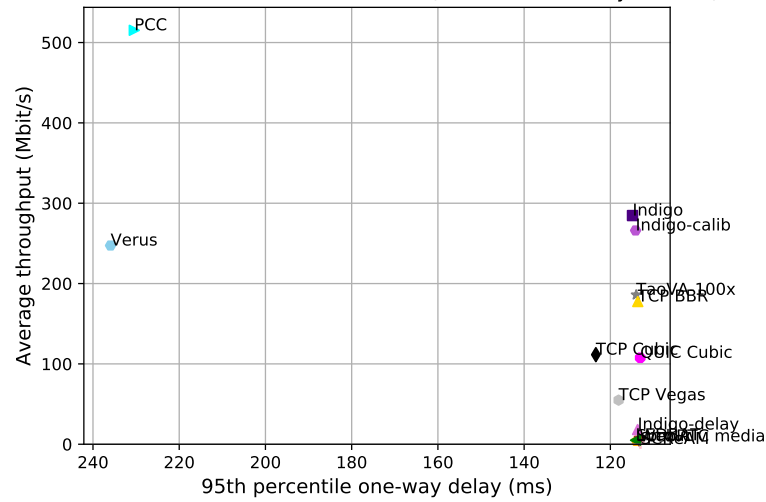
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

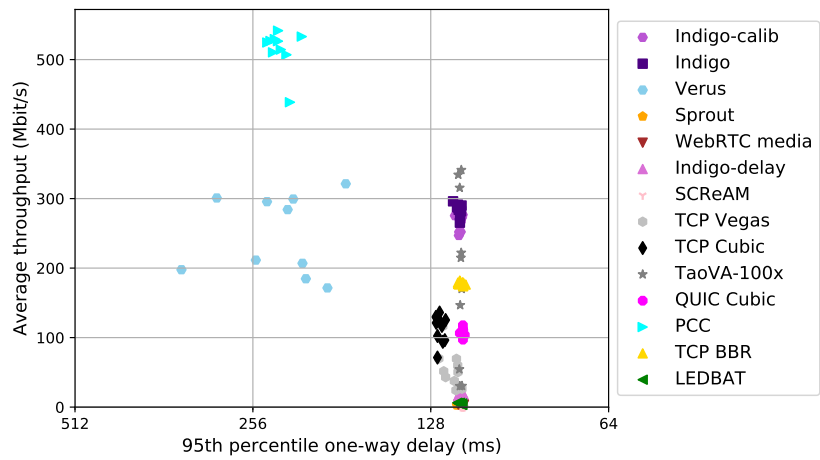
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 Tokyo Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	90.95	89.46	84.10	113.29	113.63	114.39	0.78	1.30	2.67
TCP Cubic	10	56.02	56.76	55.10	123.28	122.06	123.53	1.06	1.45	3.12
LEDBAT	7	2.68	2.81	1.45	114.08	114.15	114.08	1.54	2.47	4.35
PCC	10	460.71	63.75	38.20	231.04	227.88	211.51	2.57	2.14	3.41
QUIC Cubic	8	56.84	52.59	47.94	111.97	112.32	112.13	0.95	1.12	2.07
SCReAM	10	0.21	0.18	0.21	111.92	112.59	112.34	0.68	1.14	2.16
WebRTC media	10	2.04	1.20	0.35	112.73	112.06	113.18	0.81	1.43	5.51
Sprout	10	2.24	1.74	1.48	113.85	113.89	113.69	1.03	2.06	3.52
TaoVA-100x	10	106.68	109.33	35.81	113.58	114.28	113.84	0.79	1.22	3.13
TCP Vegas	10	24.07	27.22	39.23	116.46	117.53	117.50	1.04	1.05	2.36
Verus	10	143.42	115.42	88.36	195.82	227.72	264.21	1.44	4.19	11.64
Indigo	10	154.54	140.51	116.59	114.31	115.31	116.09	0.75	1.14	2.74
Indigo-calib	10	135.85	136.12	112.34	113.84	114.24	114.91	0.81	1.22	2.96
Indigo-delay	10	7.30	9.71	14.18	113.70	113.72	113.66	0.74	0.46	2.93

Run 1: Statistics of TCP BBR

Start at: 2017-09-22 00:53:28

End at: 2017-09-22 00:53:58

Below is generated by plot.py at 2017-09-22 05:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.33 Mbit/s

95th percentile per-packet one-way delay: 111.704 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 111.696 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 111.696 ms

Loss rate: 1.23%

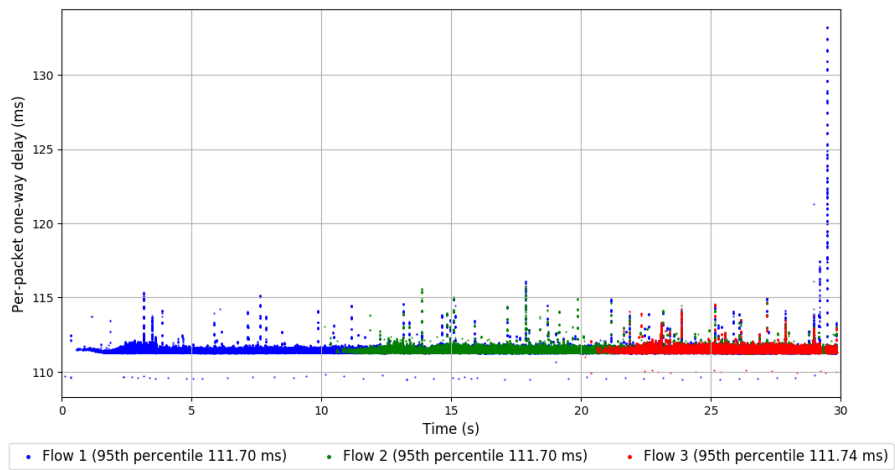
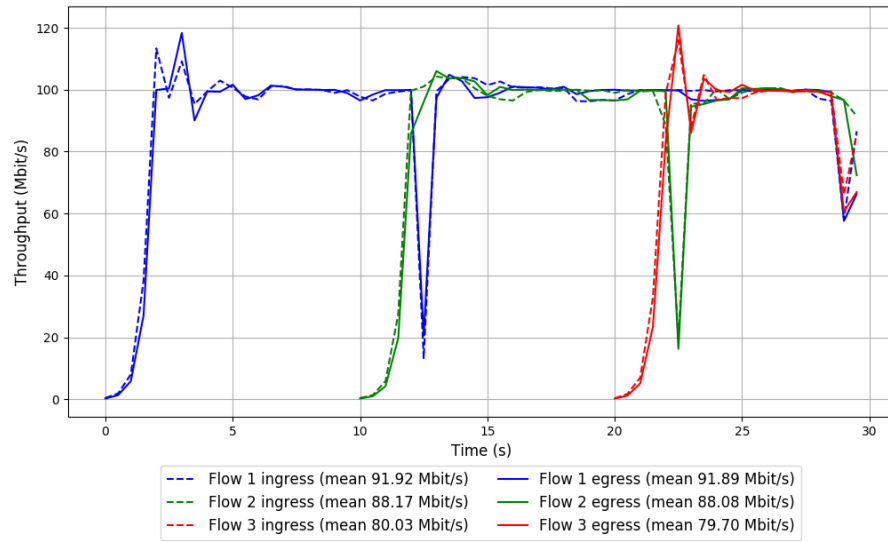
-- Flow 3:

Average throughput: 79.70 Mbit/s

95th percentile per-packet one-way delay: 111.744 ms

Loss rate: 2.64%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-22 01:06:54

End at: 2017-09-22 01:07:24

Below is generated by plot.py at 2017-09-22 05:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.59 Mbit/s

95th percentile per-packet one-way delay: 113.120 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 112.758 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 113.103 ms

Loss rate: 1.18%

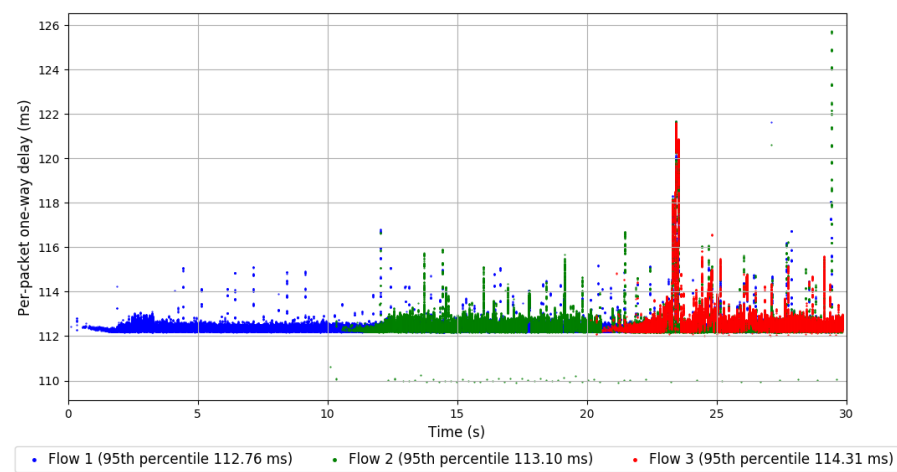
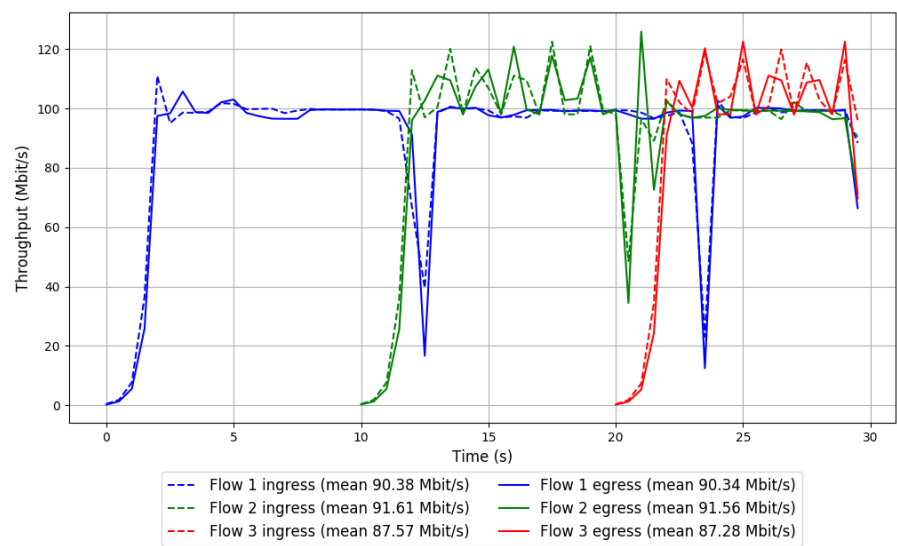
-- Flow 3:

Average throughput: 87.28 Mbit/s

95th percentile per-packet one-way delay: 114.306 ms

Loss rate: 2.57%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-22 01:19:58

End at: 2017-09-22 01:20:28

Below is generated by plot.py at 2017-09-22 05:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.92 Mbit/s

95th percentile per-packet one-way delay: 112.697 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 93.37 Mbit/s

95th percentile per-packet one-way delay: 112.716 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 112.620 ms

Loss rate: 1.26%

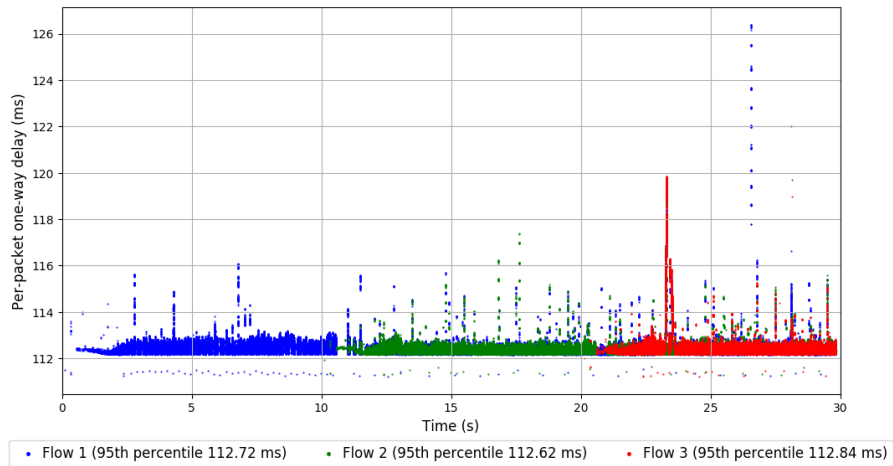
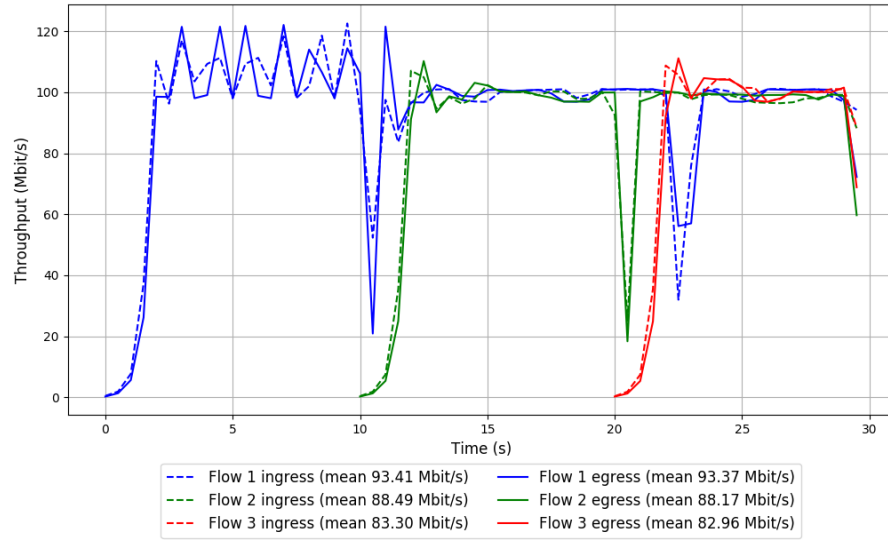
-- Flow 3:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 112.836 ms

Loss rate: 2.66%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-22 01:33:28

End at: 2017-09-22 01:33:58

Below is generated by plot.py at 2017-09-22 05:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.52 Mbit/s

95th percentile per-packet one-way delay: 114.694 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 114.098 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 114.346 ms

Loss rate: 1.25%

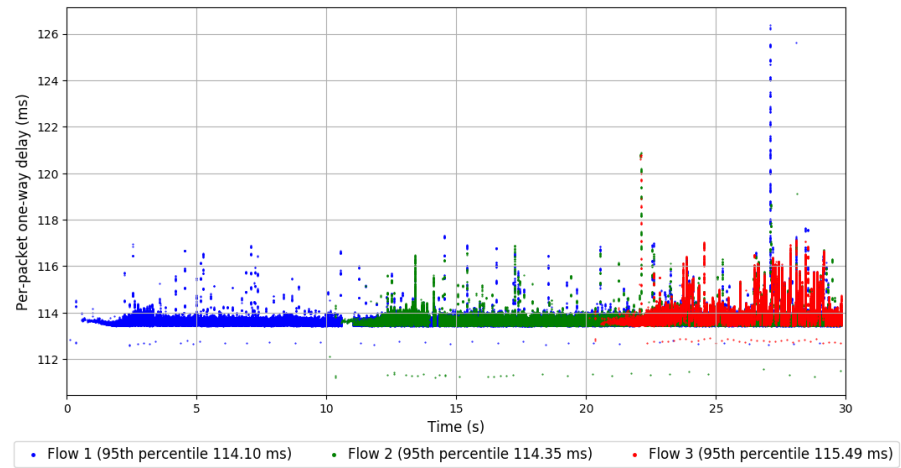
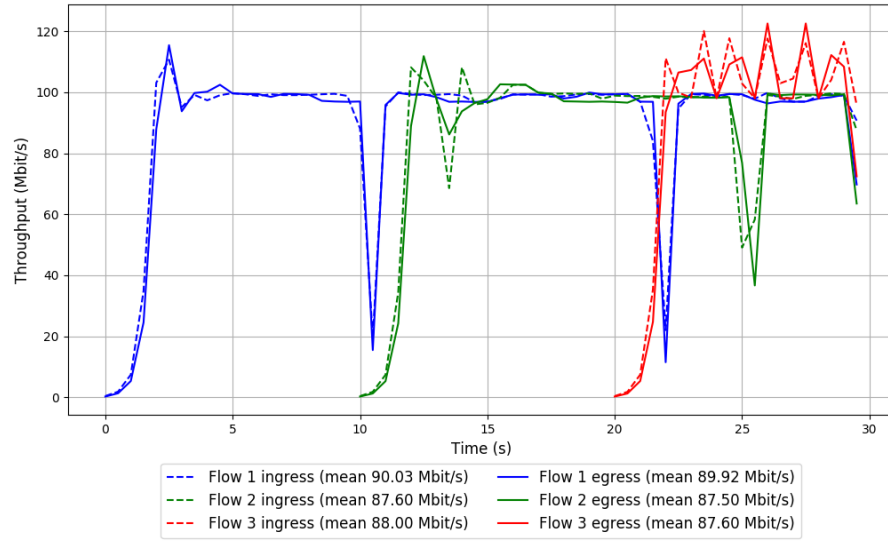
-- Flow 3:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 115.489 ms

Loss rate: 2.74%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-22 01:46:46

End at: 2017-09-22 01:47:16

Below is generated by plot.py at 2017-09-22 05:28:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.15 Mbit/s

95th percentile per-packet one-way delay: 115.126 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 114.103 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 115.798 ms

Loss rate: 1.24%

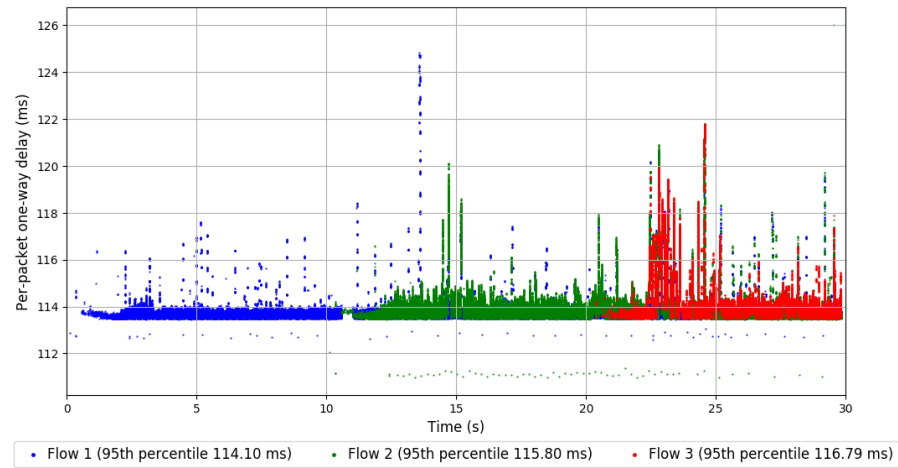
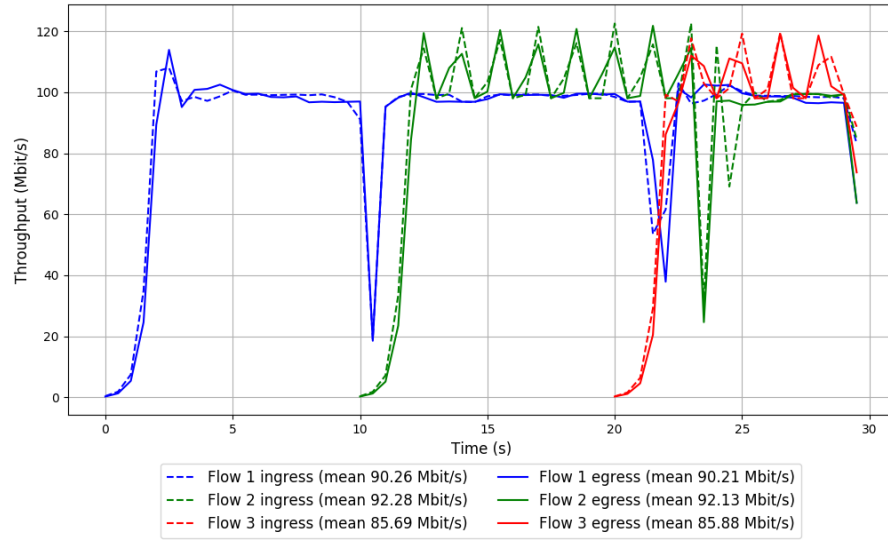
-- Flow 3:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 116.790 ms

Loss rate: 2.34%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-22 02:00:27

End at: 2017-09-22 02:00:57

Below is generated by plot.py at 2017-09-22 05:29:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.99 Mbit/s

95th percentile per-packet one-way delay: 114.300 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 113.549 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 114.223 ms

Loss rate: 1.21%

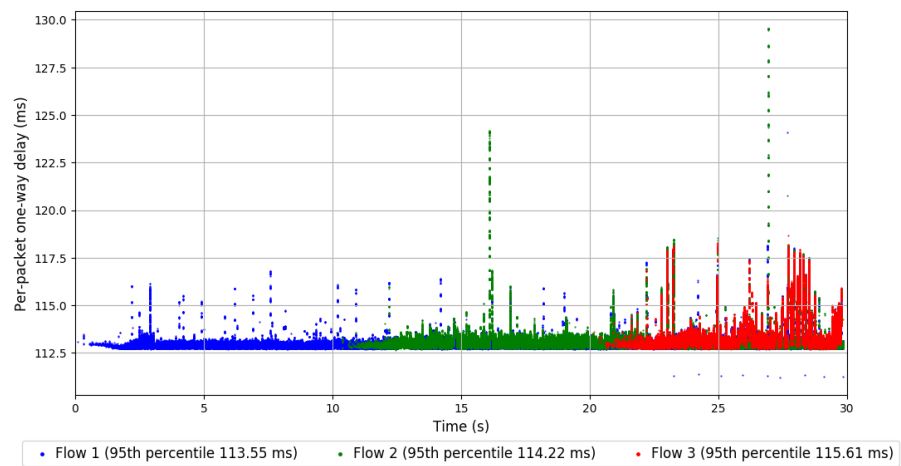
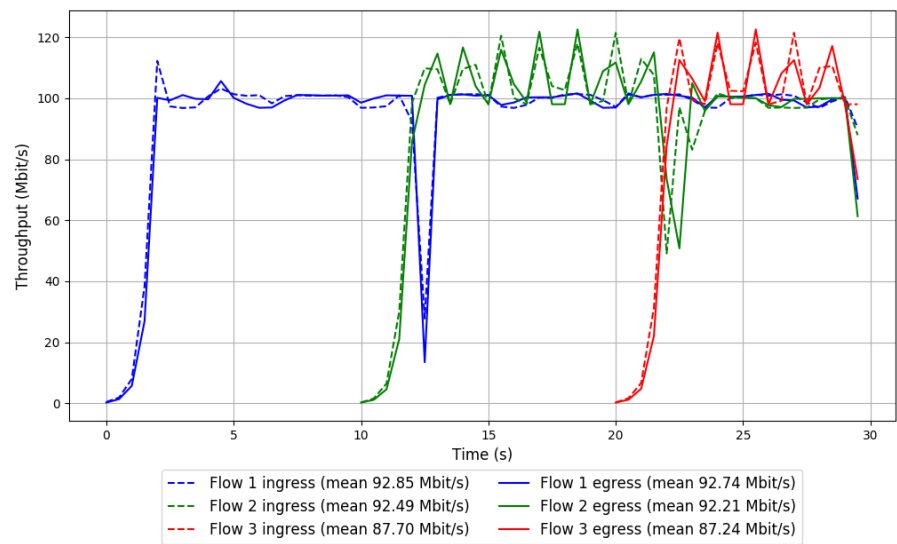
-- Flow 3:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 115.610 ms

Loss rate: 2.84%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-22 02:13:56

End at: 2017-09-22 02:14:26

Below is generated by plot.py at 2017-09-22 05:29:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.51 Mbit/s

95th percentile per-packet one-way delay: 114.026 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 90.83 Mbit/s

95th percentile per-packet one-way delay: 113.471 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 113.807 ms

Loss rate: 1.24%

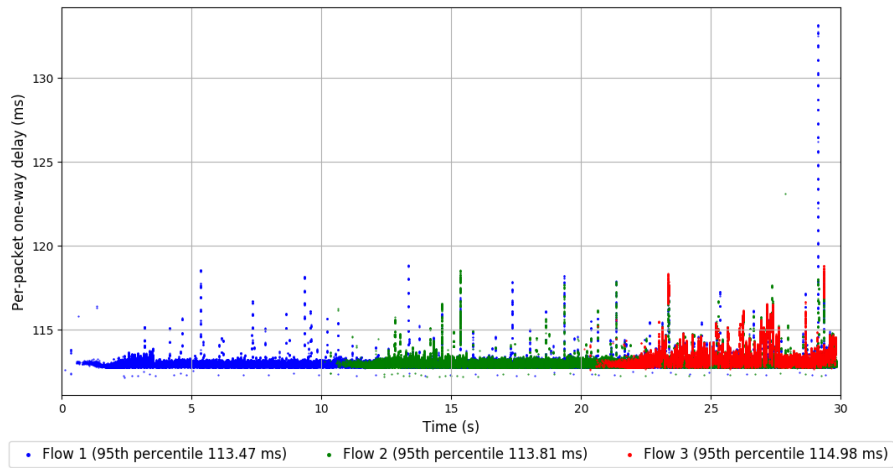
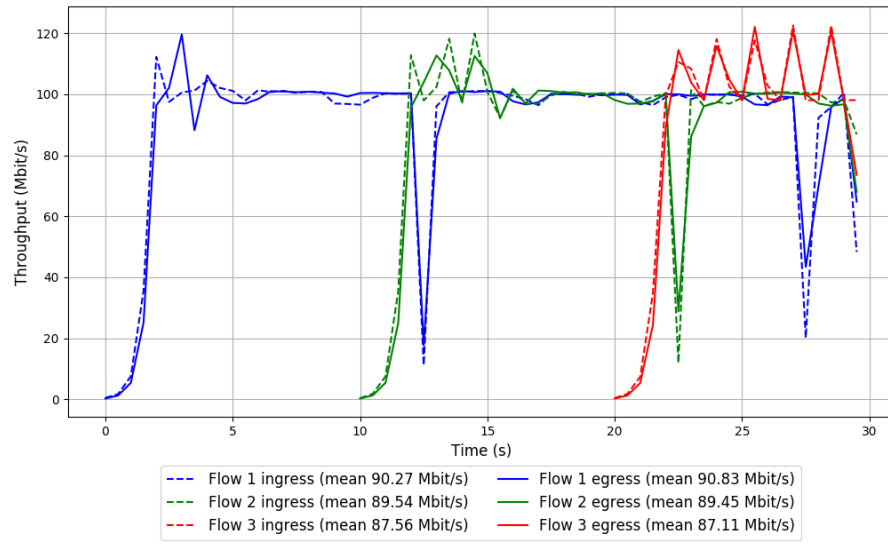
-- Flow 3:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 114.979 ms

Loss rate: 2.82%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-22 02:27:05

End at: 2017-09-22 02:27:36

Below is generated by plot.py at 2017-09-22 05:29:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.95 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 90.14 Mbit/s

95th percentile per-packet one-way delay: 112.785 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 112.820 ms

Loss rate: 1.26%

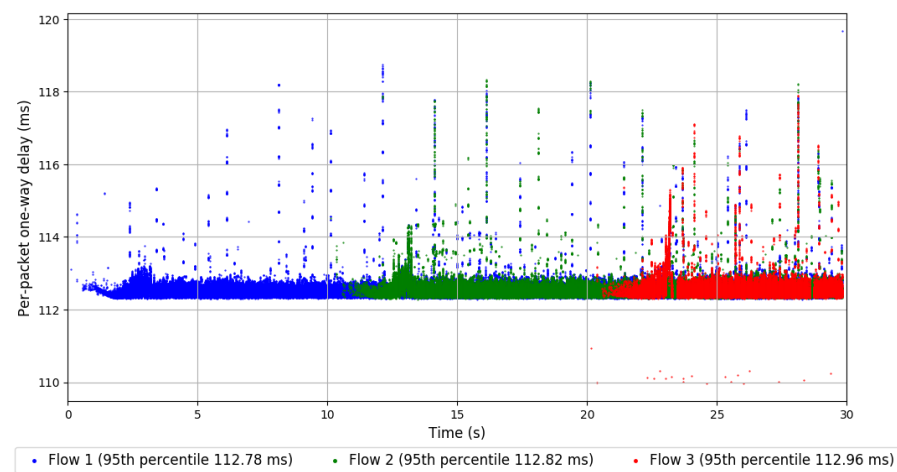
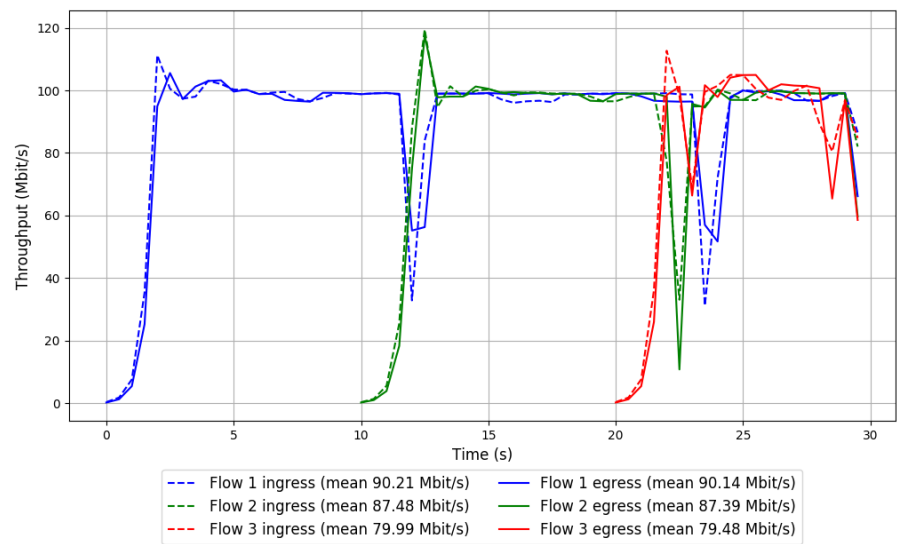
-- Flow 3:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 112.960 ms

Loss rate: 2.90%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-22 02:40:23

End at: 2017-09-22 02:40:53

Below is generated by plot.py at 2017-09-22 05:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.30 Mbit/s

95th percentile per-packet one-way delay: 112.866 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 90.20 Mbit/s

95th percentile per-packet one-way delay: 112.857 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 112.826 ms

Loss rate: 1.95%

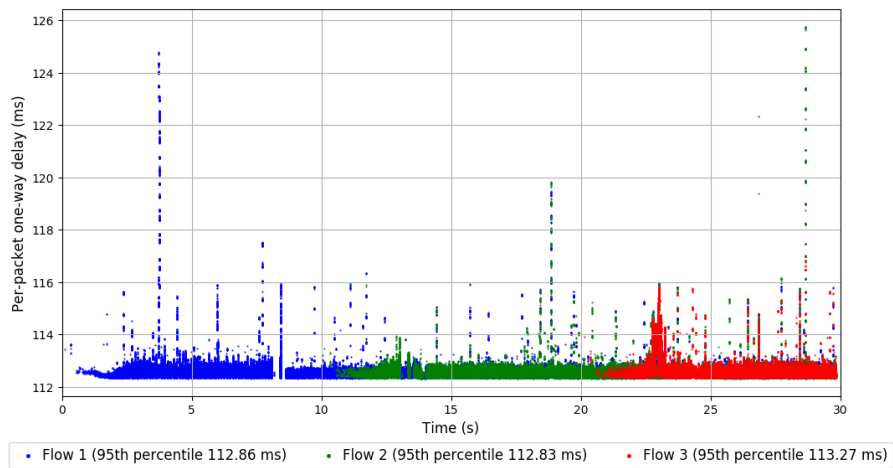
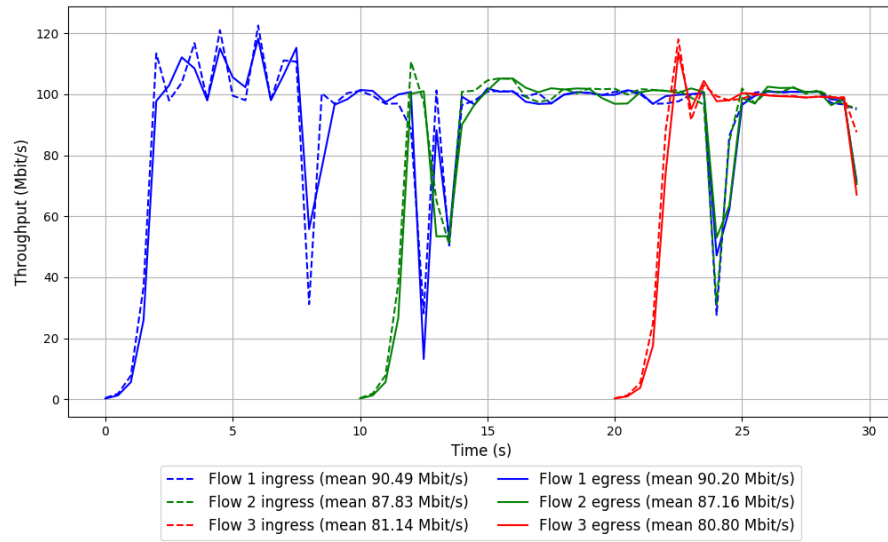
-- Flow 3:

Average throughput: 80.80 Mbit/s

95th percentile per-packet one-way delay: 113.266 ms

Loss rate: 2.70%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-22 02:54:07

End at: 2017-09-22 02:54:37

Below is generated by plot.py at 2017-09-22 05:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.23 Mbit/s

95th percentile per-packet one-way delay: 115.049 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 89.81 Mbit/s

95th percentile per-packet one-way delay: 114.828 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 115.096 ms

Loss rate: 1.19%

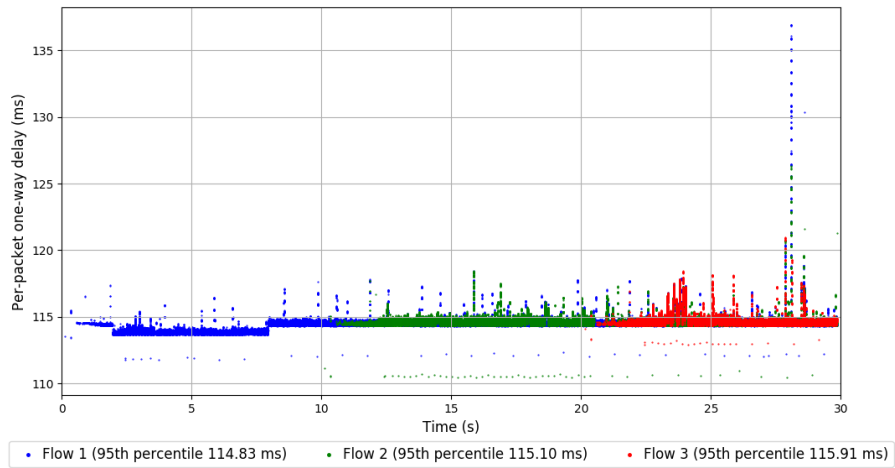
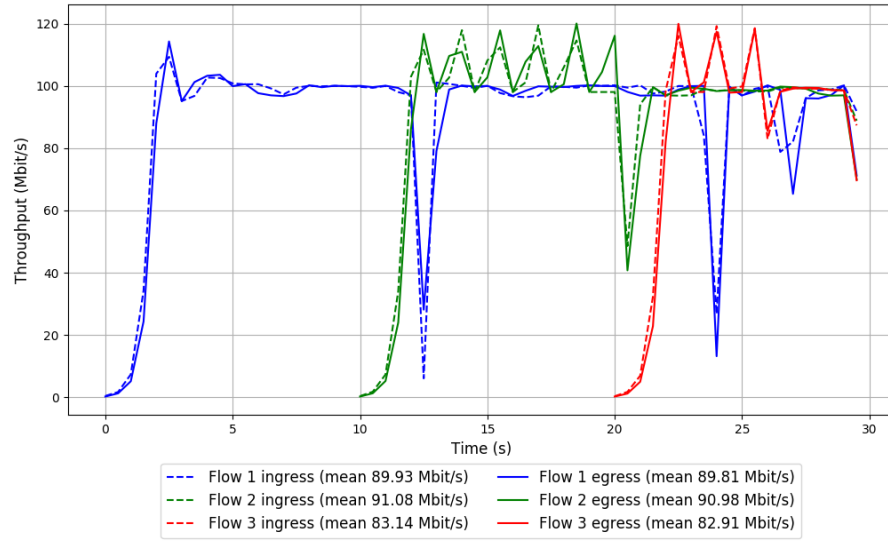
-- Flow 3:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 115.912 ms

Loss rate: 2.53%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-22 01:02:56

End at: 2017-09-22 01:03:26

Below is generated by plot.py at 2017-09-22 05:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 124.690 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 122.181 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 123.175 ms

Loss rate: 4.01%

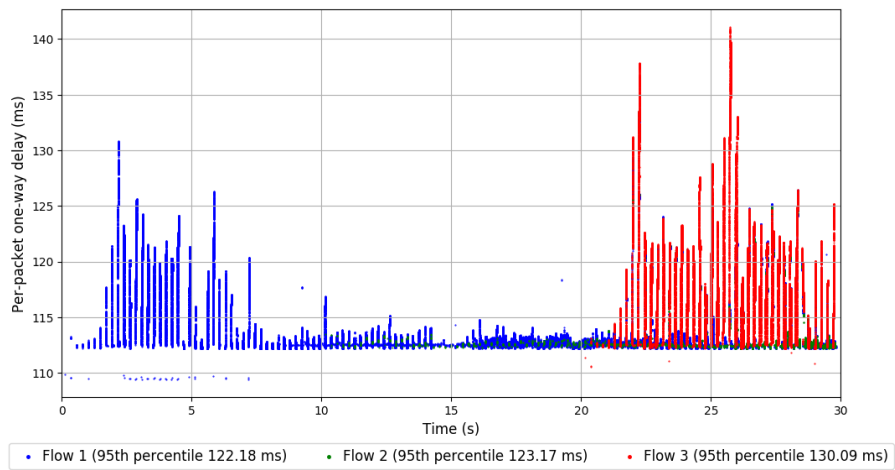
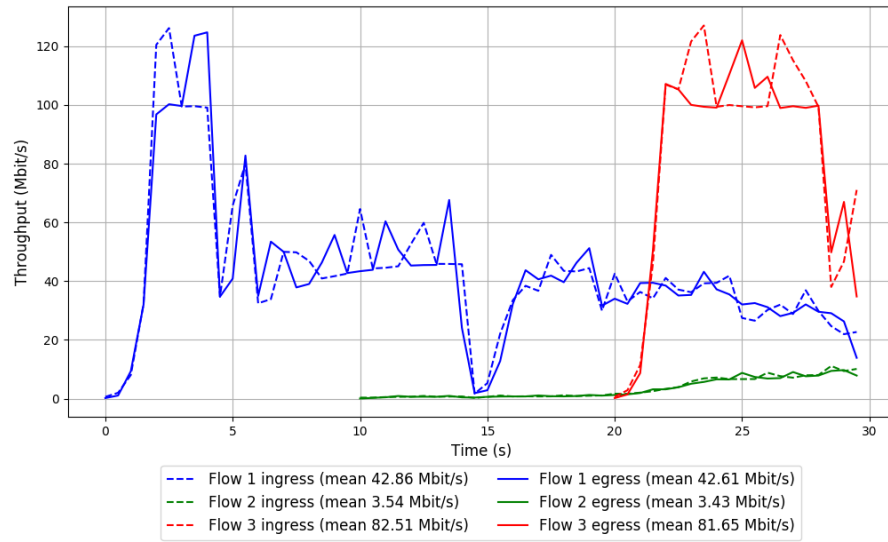
-- Flow 3:

Average throughput: 81.65 Mbit/s

95th percentile per-packet one-way delay: 130.086 ms

Loss rate: 3.29%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-22 01:15:53

End at: 2017-09-22 01:16:23

Below is generated by plot.py at 2017-09-22 05:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.06 Mbit/s

95th percentile per-packet one-way delay: 123.666 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 59.40 Mbit/s

95th percentile per-packet one-way delay: 124.846 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 71.15 Mbit/s

95th percentile per-packet one-way delay: 122.601 ms

Loss rate: 0.80%

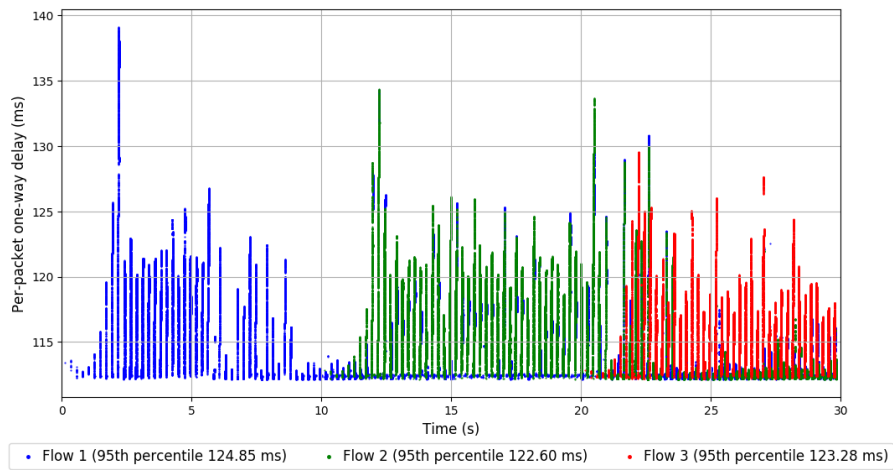
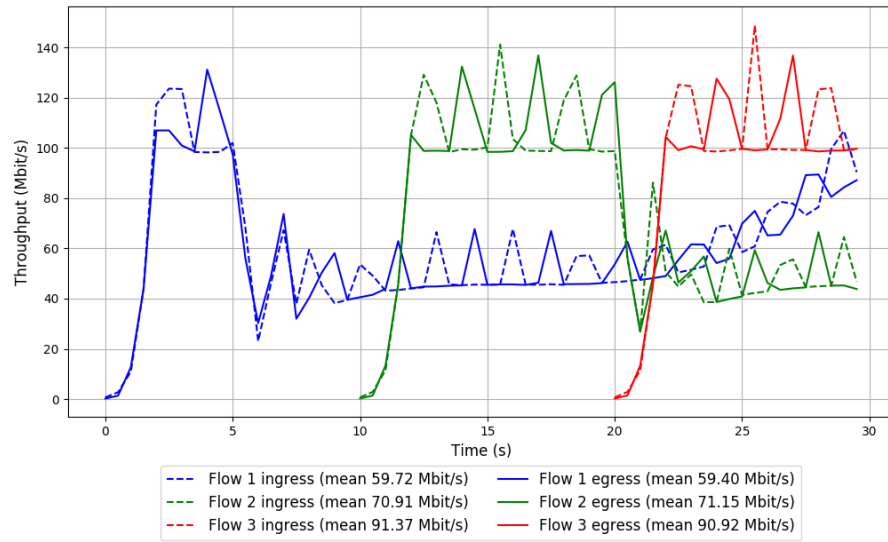
-- Flow 3:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 123.281 ms

Loss rate: 2.74%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-22 01:29:19

End at: 2017-09-22 01:29:49

Below is generated by plot.py at 2017-09-22 05:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.81 Mbit/s

95th percentile per-packet one-way delay: 122.550 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 59.14 Mbit/s

95th percentile per-packet one-way delay: 122.797 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 64.87 Mbit/s

95th percentile per-packet one-way delay: 122.430 ms

Loss rate: 1.38%

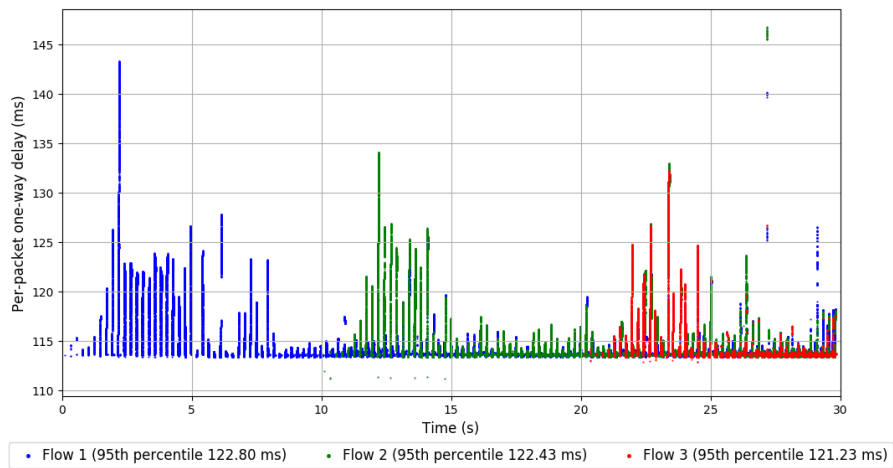
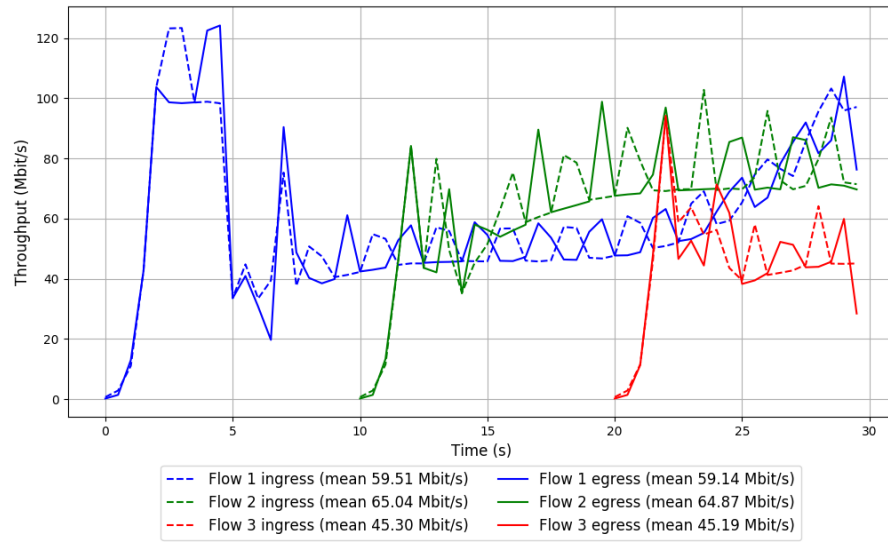
-- Flow 3:

Average throughput: 45.19 Mbit/s

95th percentile per-packet one-way delay: 121.229 ms

Loss rate: 2.51%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-22 01:42:40

End at: 2017-09-22 01:43:10

Below is generated by plot.py at 2017-09-22 05:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.12 Mbit/s

95th percentile per-packet one-way delay: 123.239 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 123.074 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 73.33 Mbit/s

95th percentile per-packet one-way delay: 123.514 ms

Loss rate: 0.89%

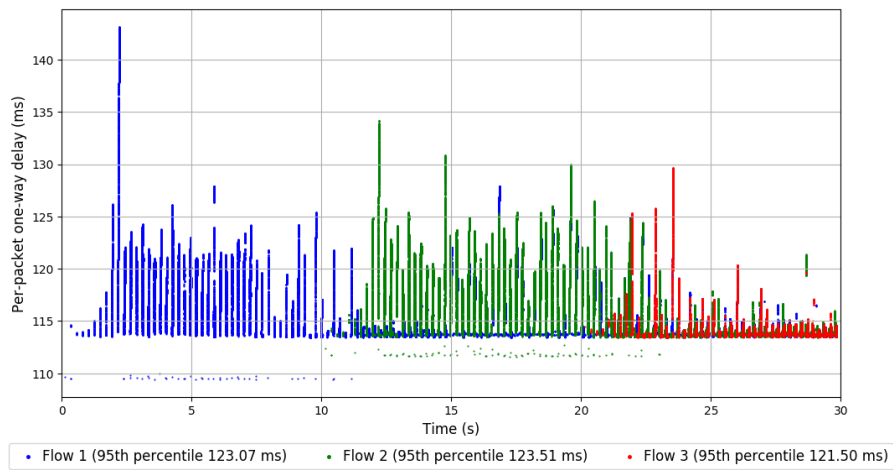
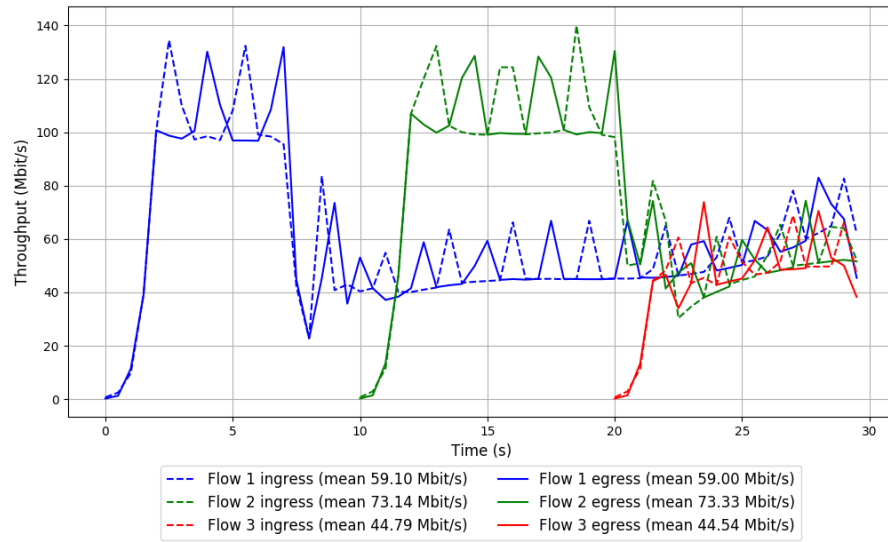
-- Flow 3:

Average throughput: 44.54 Mbit/s

95th percentile per-packet one-way delay: 121.505 ms

Loss rate: 2.81%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-22 01:56:10

End at: 2017-09-22 01:56:40

Below is generated by plot.py at 2017-09-22 05:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.70 Mbit/s

95th percentile per-packet one-way delay: 125.472 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 52.26 Mbit/s

95th percentile per-packet one-way delay: 127.155 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 123.888 ms

Loss rate: 0.26%

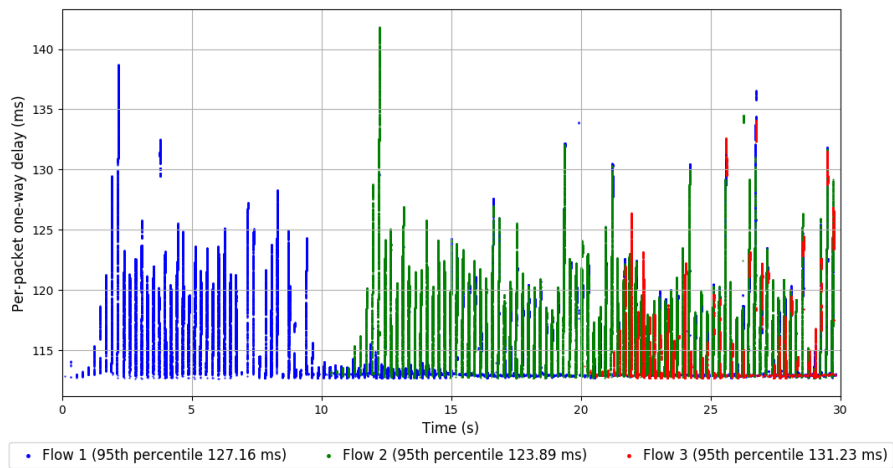
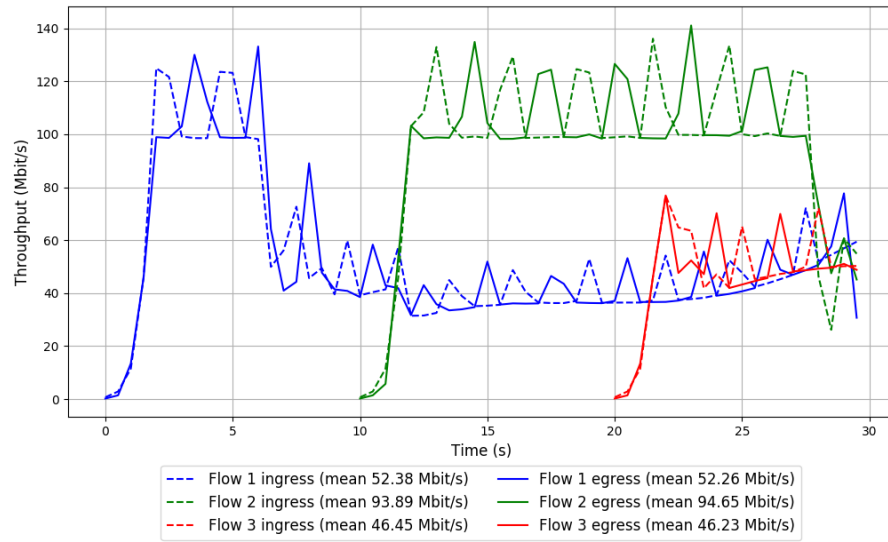
-- Flow 3:

Average throughput: 46.23 Mbit/s

95th percentile per-packet one-way delay: 131.229 ms

Loss rate: 2.73%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-22 02:09:58

End at: 2017-09-22 02:10:28

Below is generated by plot.py at 2017-09-22 05:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 121.162 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 121.580 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 117.643 ms

Loss rate: 1.52%

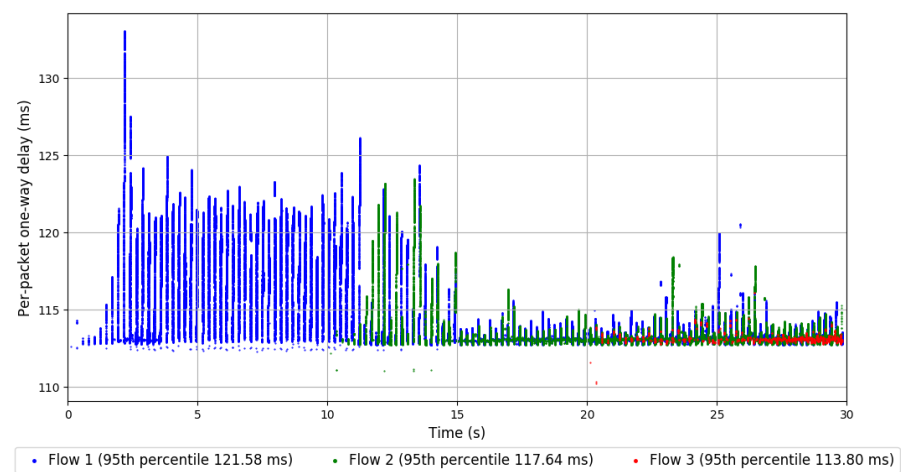
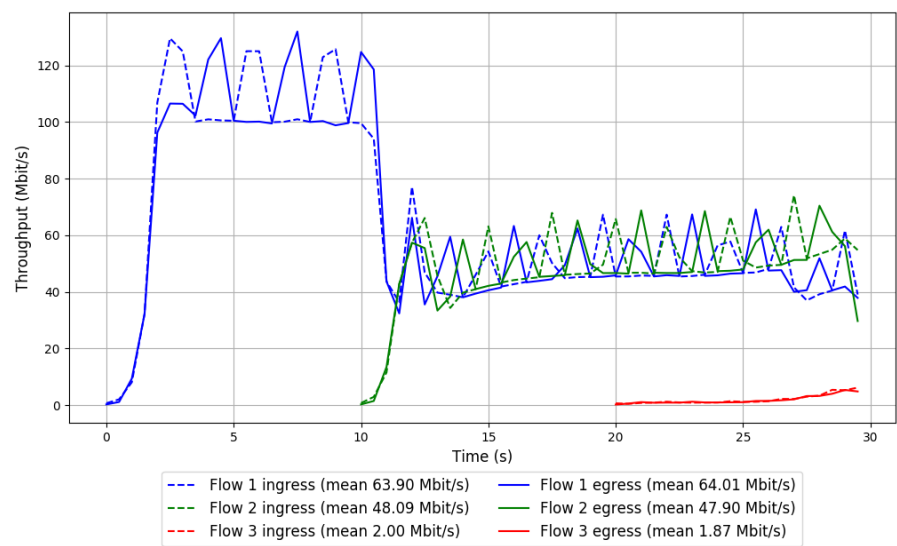
-- Flow 3:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 113.804 ms

Loss rate: 8.25%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-22 02:22:53

End at: 2017-09-22 02:23:23

Below is generated by plot.py at 2017-09-22 05:32:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.28 Mbit/s

95th percentile per-packet one-way delay: 120.806 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 120.775 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 120.883 ms

Loss rate: 1.25%

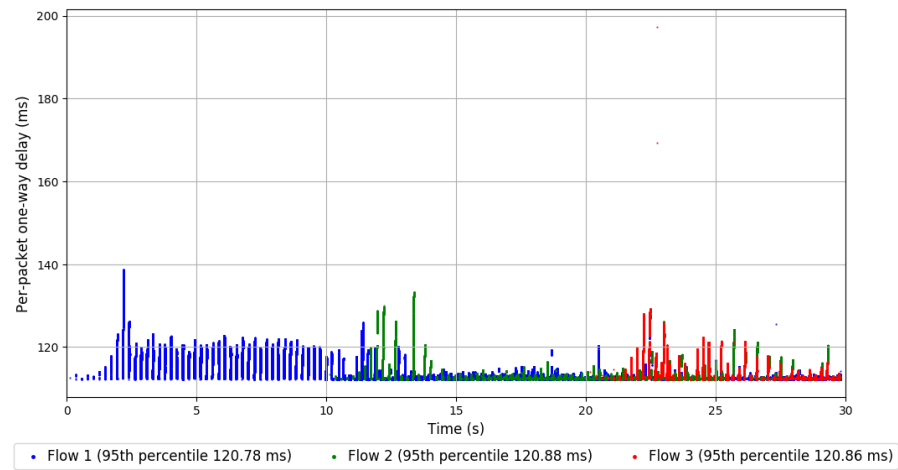
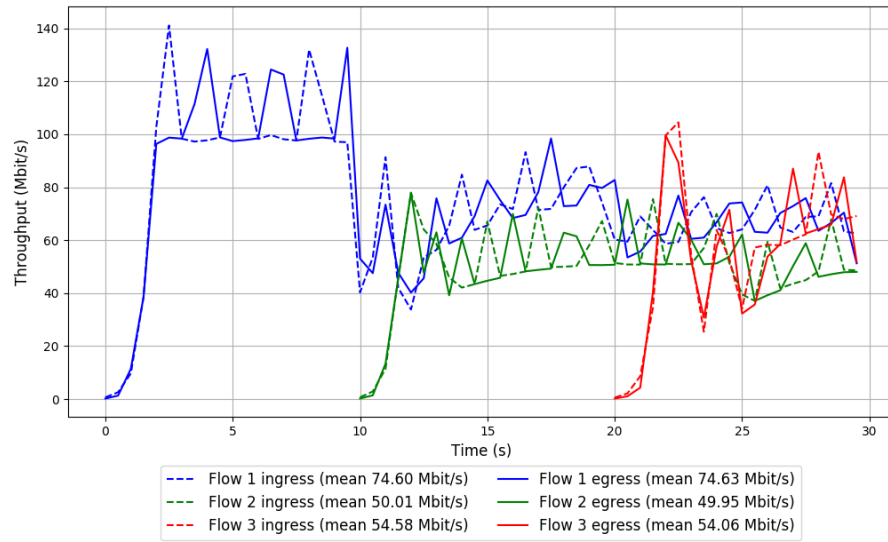
-- Flow 3:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 120.861 ms

Loss rate: 3.23%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-22 02:36:17

End at: 2017-09-22 02:36:47

Below is generated by plot.py at 2017-09-22 05:32:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 122.113 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 122.710 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 36.06 Mbit/s

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

Loss rate: 2.04%

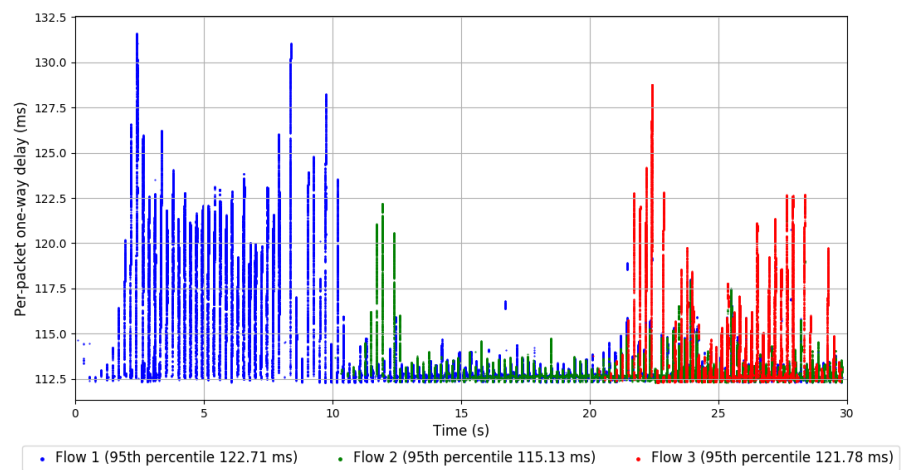
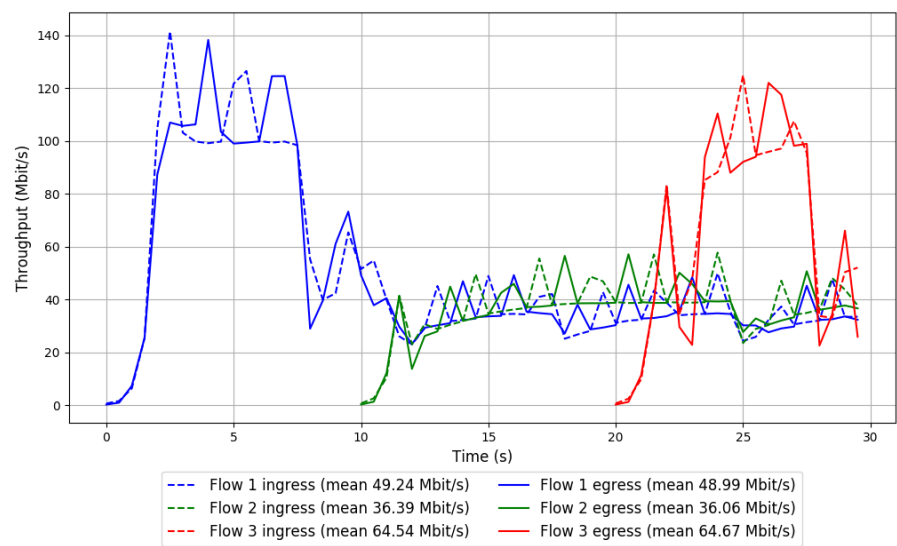
-- Flow 3:

Average throughput: 64.67 Mbit/s

95th percentile per-packet one-way delay: 121.780 ms

Loss rate: 2.09%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-22 02:49:57

End at: 2017-09-22 02:50:27

Below is generated by plot.py at 2017-09-22 05:32:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 124.669 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 123.835 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 125.992 ms

Loss rate: 1.03%

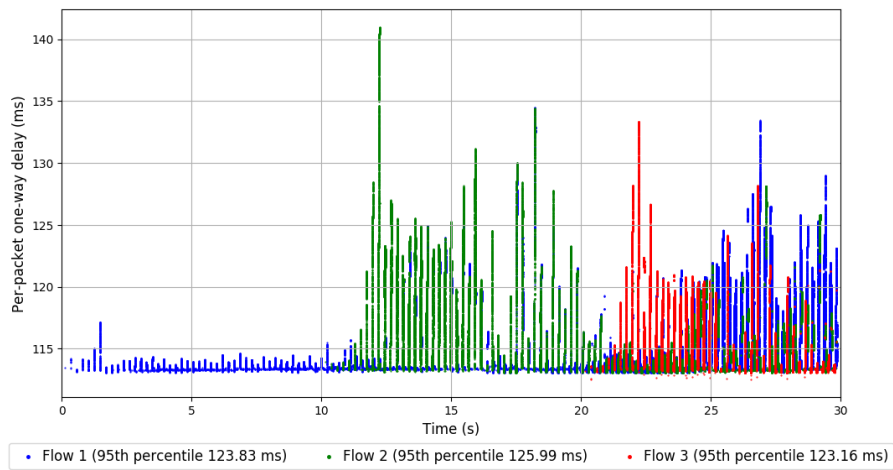
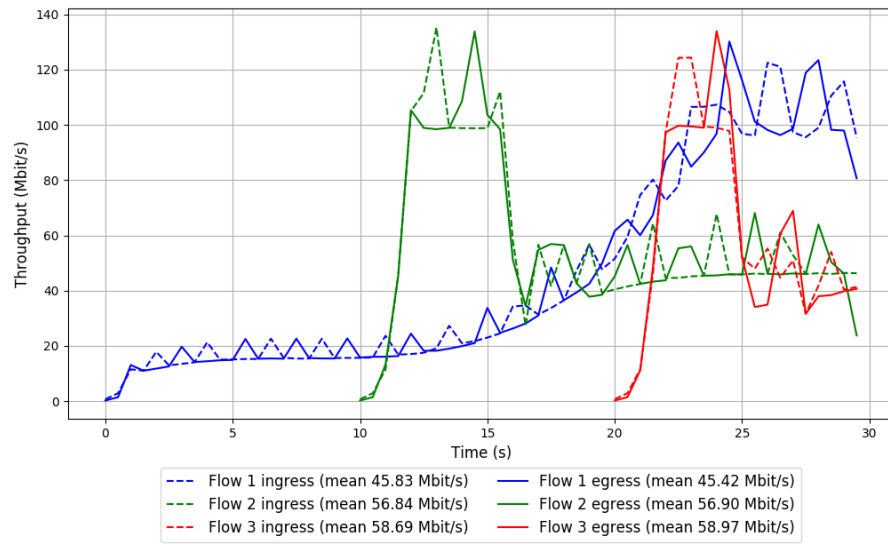
-- Flow 3:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 123.158 ms

Loss rate: 1.82%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-22 03:03:07

End at: 2017-09-22 03:03:37

Below is generated by plot.py at 2017-09-22 05:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.23 Mbit/s

95th percentile per-packet one-way delay: 125.305 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 54.75 Mbit/s

95th percentile per-packet one-way delay: 123.887 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 125.307 ms

Loss rate: 1.31%

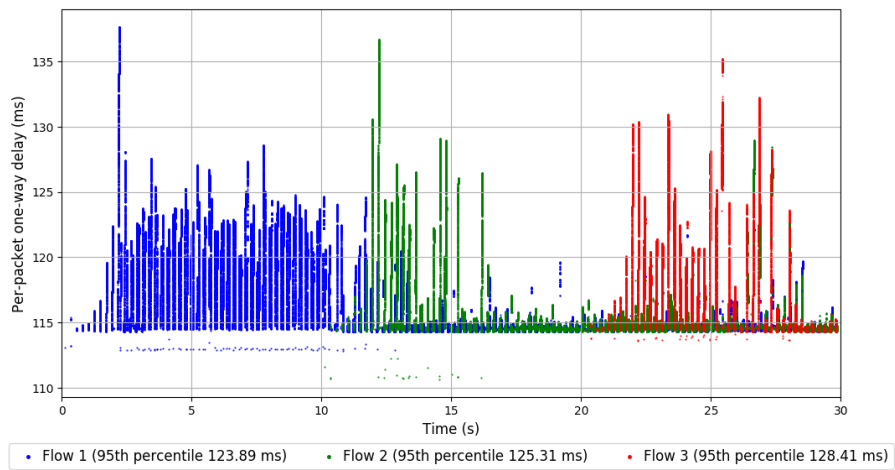
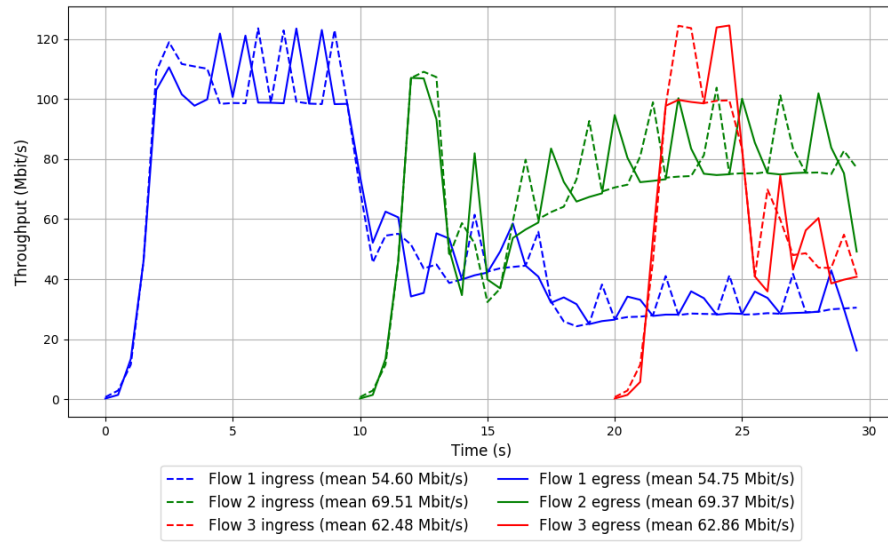
-- Flow 3:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 128.405 ms

Loss rate: 1.69%

Run 10: Report of TCP Cubic — Data Link

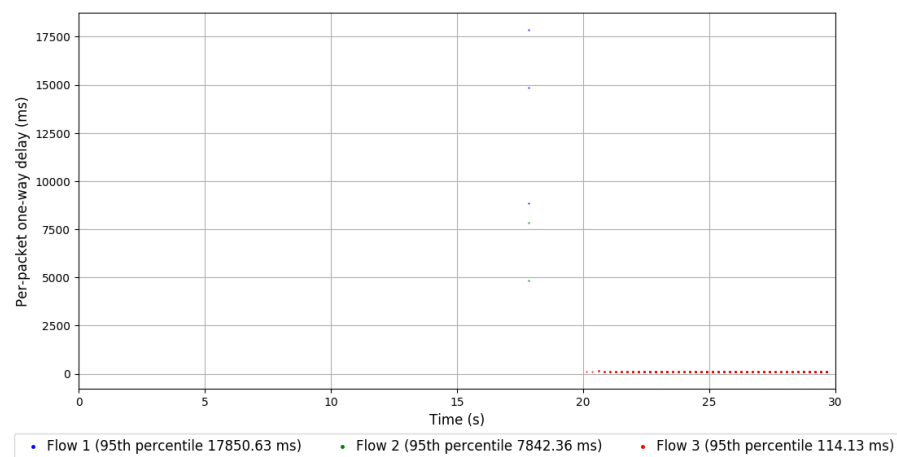
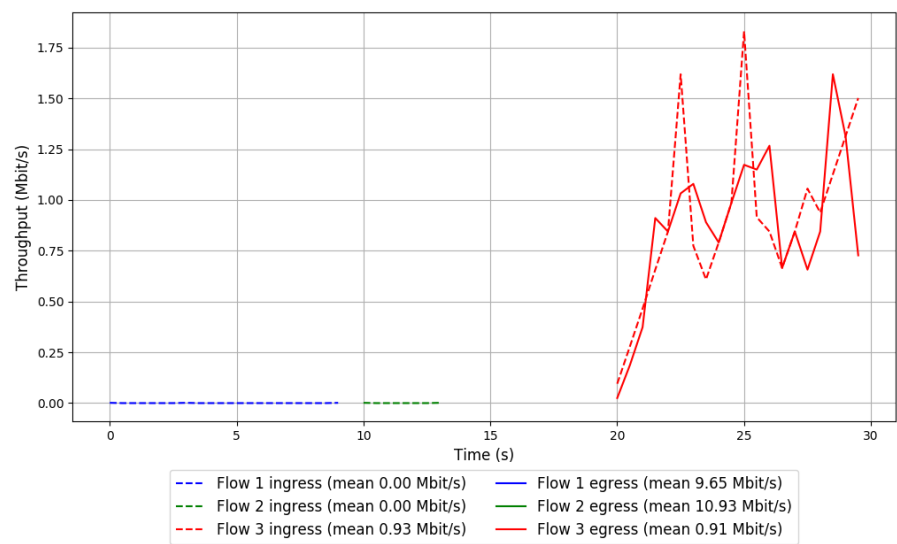


Run 1: Statistics of LEDBAT

Start at: 2017-09-22 00:57:09

End at: 2017-09-22 00:57:39

Run 1: Report of LEDBAT — Data Link

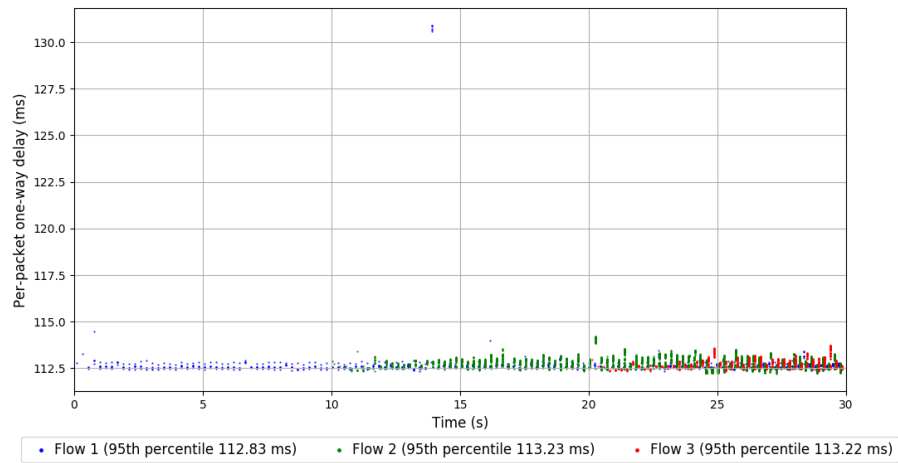
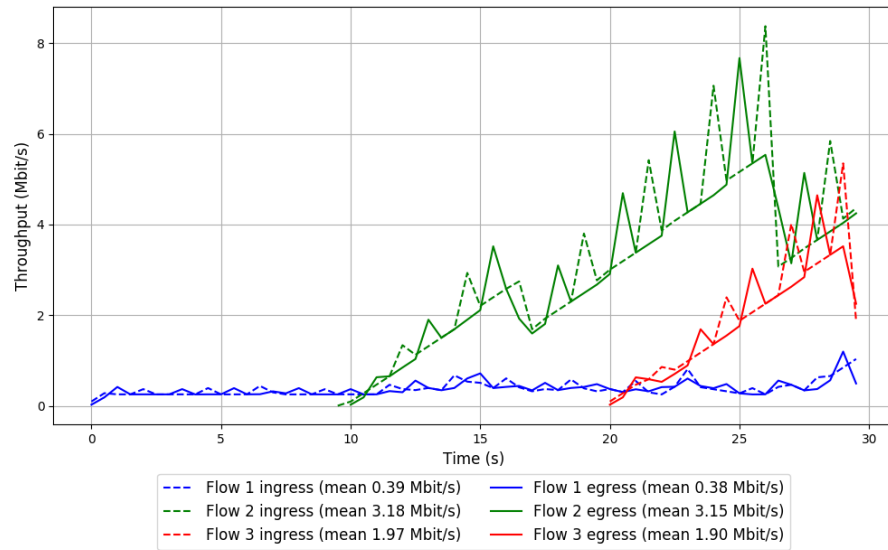


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-22 01:10:35
End at: 2017-09-22 01:11:05

# Below is generated by plot.py at 2017-09-22 05:32:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 113.213 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 112.825 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 113.230 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 113.219 ms
Loss rate: 3.80%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-22 01:23:41

End at: 2017-09-22 01:24:11

Below is generated by plot.py at 2017-09-22 05:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 113.237 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 113.294 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 113.127 ms

Loss rate: 0.90%

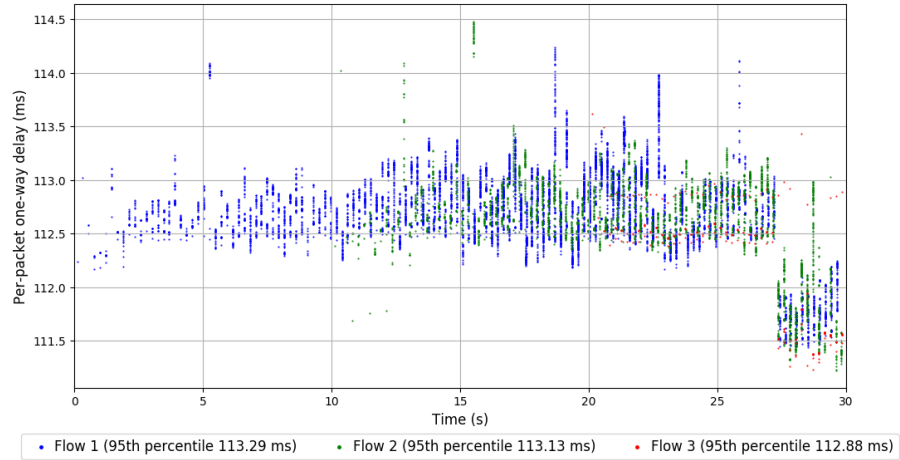
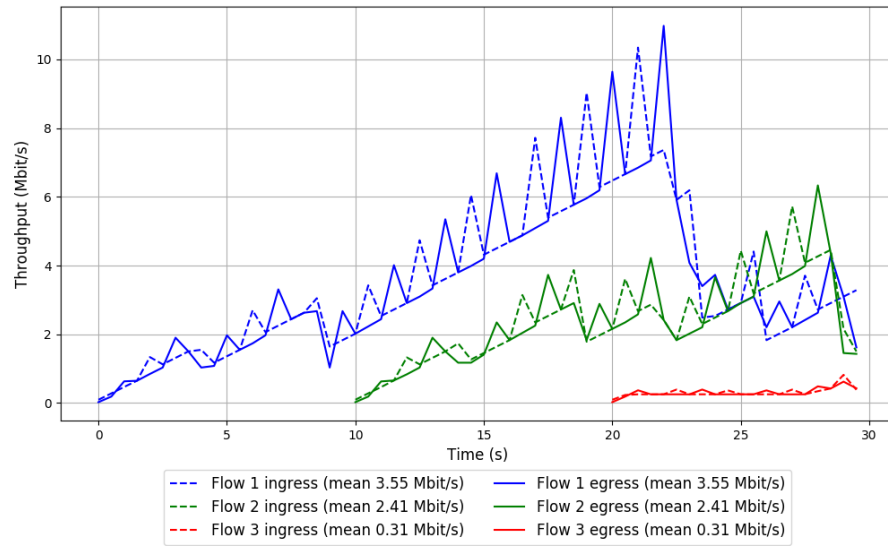
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 112.877 ms

Loss rate: 2.53%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-22 01:37:09

End at: 2017-09-22 01:37:39

Below is generated by plot.py at 2017-09-22 05:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 114.841 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 114.659 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 114.993 ms

Loss rate: 1.29%

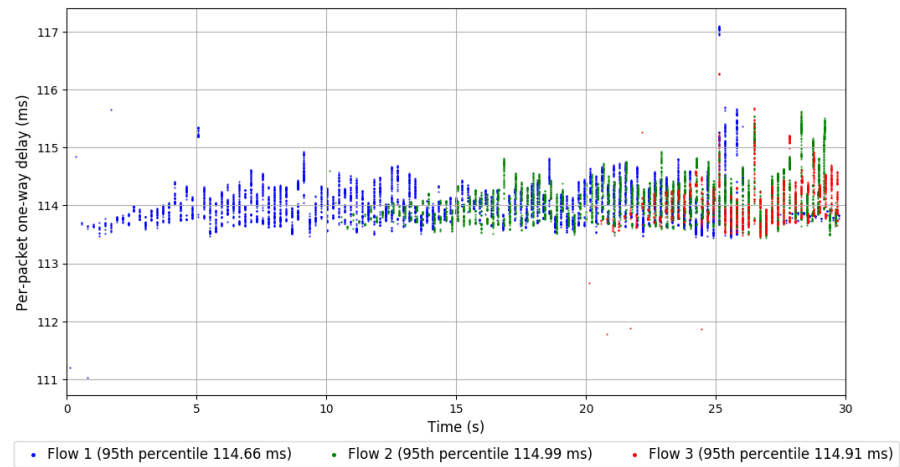
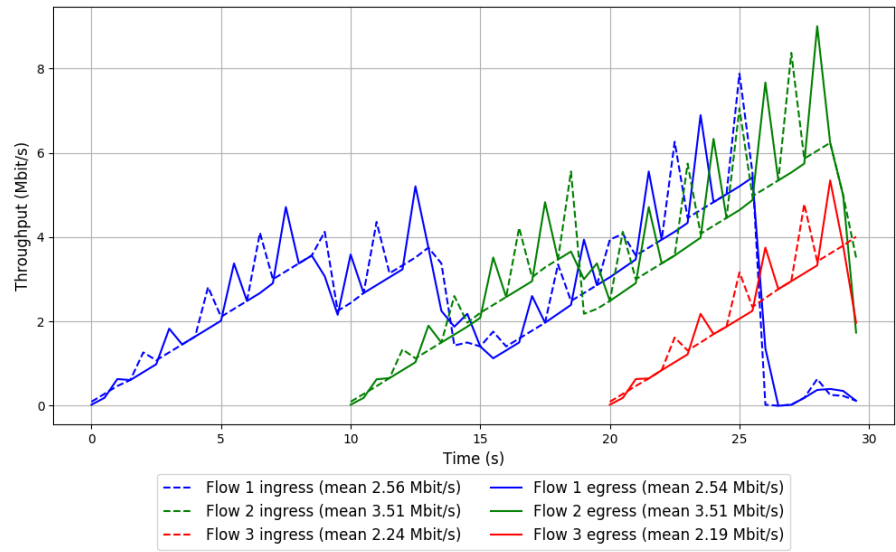
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.914 ms

Loss rate: 4.66%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-22 01:50:27

End at: 2017-09-22 01:50:57

Below is generated by plot.py at 2017-09-22 05:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.12 Mbit/s

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

Loss rate: 1.97%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 114.853 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 4.05 Mbit/s

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

Loss rate: 2.42%

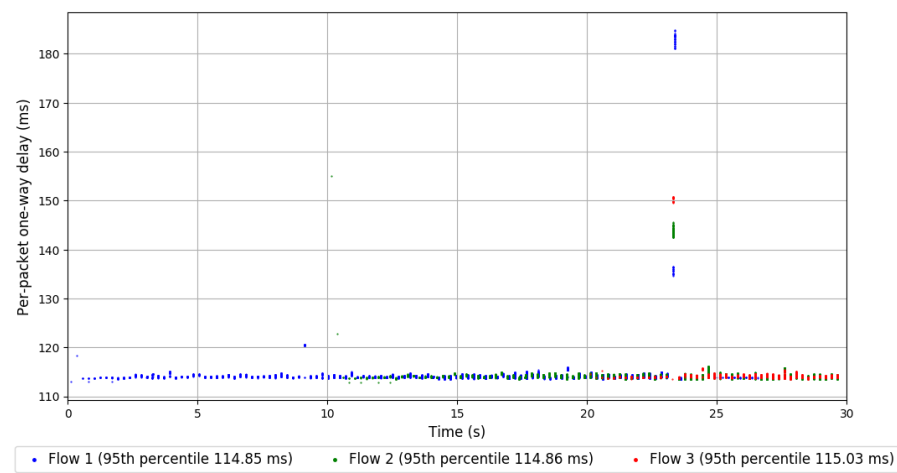
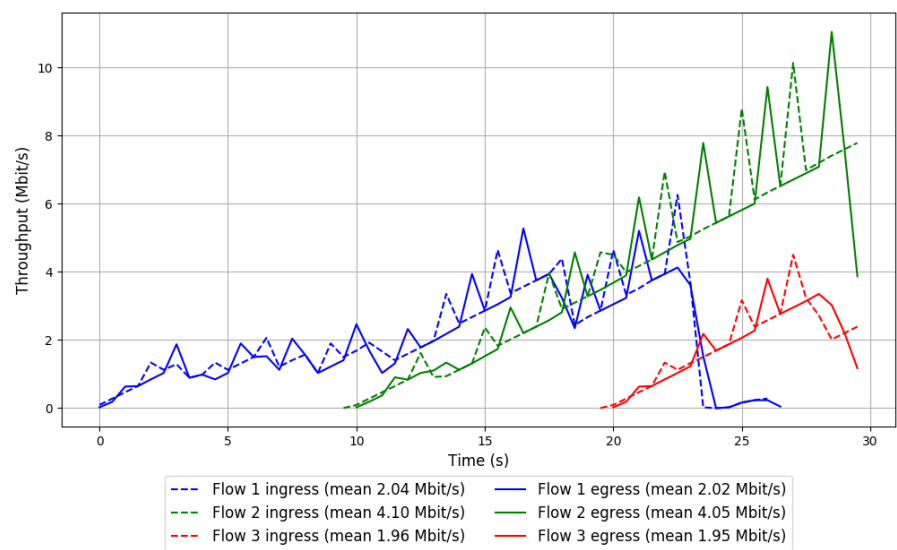
-- Flow 3:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 115.028 ms

Loss rate: 3.18%

Run 5: Report of LEDBAT — Data Link

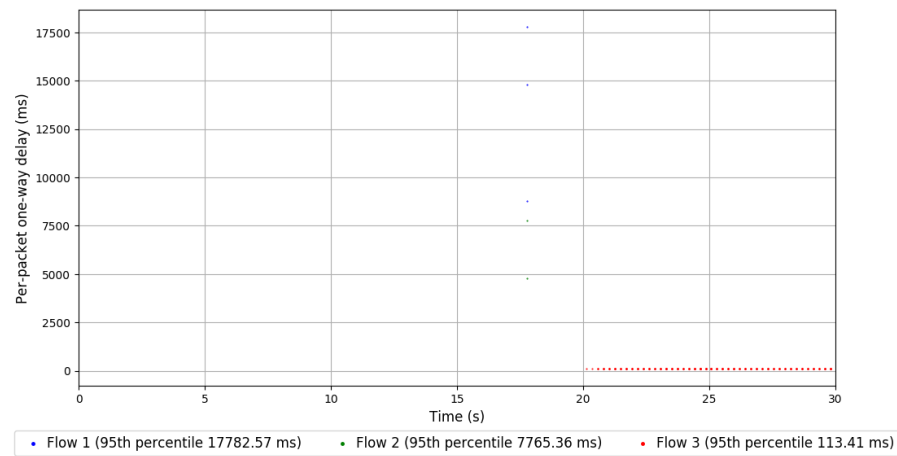
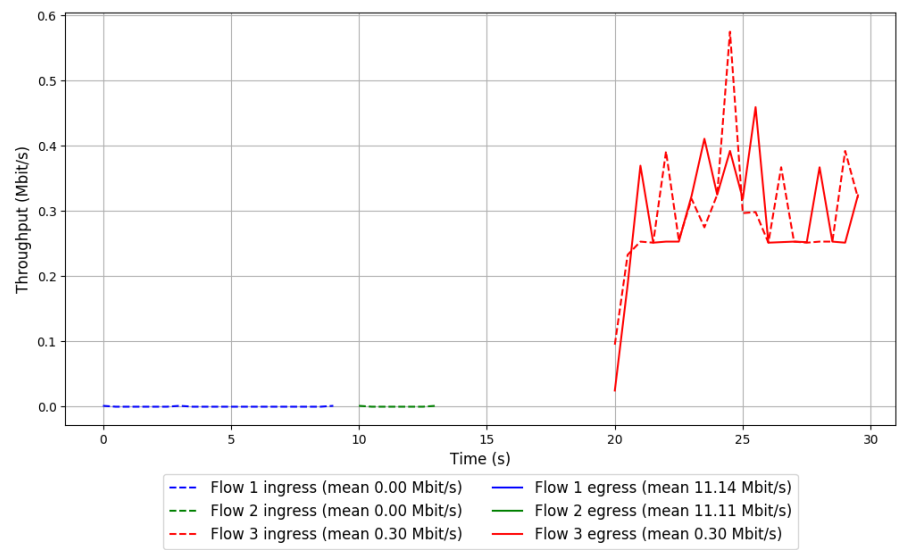


Run 6: Statistics of LEDBAT

Start at: 2017-09-22 02:04:09

End at: 2017-09-22 02:04:39

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-22 02:17:37

End at: 2017-09-22 02:18:07

Below is generated by plot.py at 2017-09-22 05:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 114.248 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 114.157 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 114.400 ms

Loss rate: 2.43%

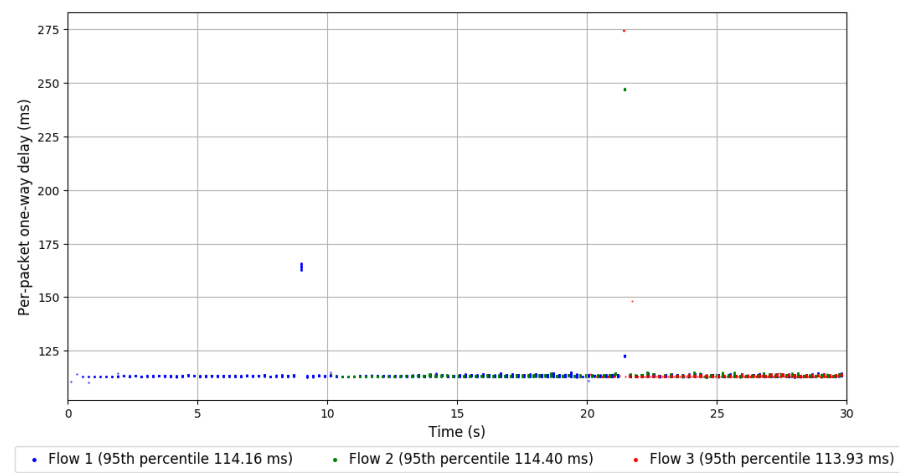
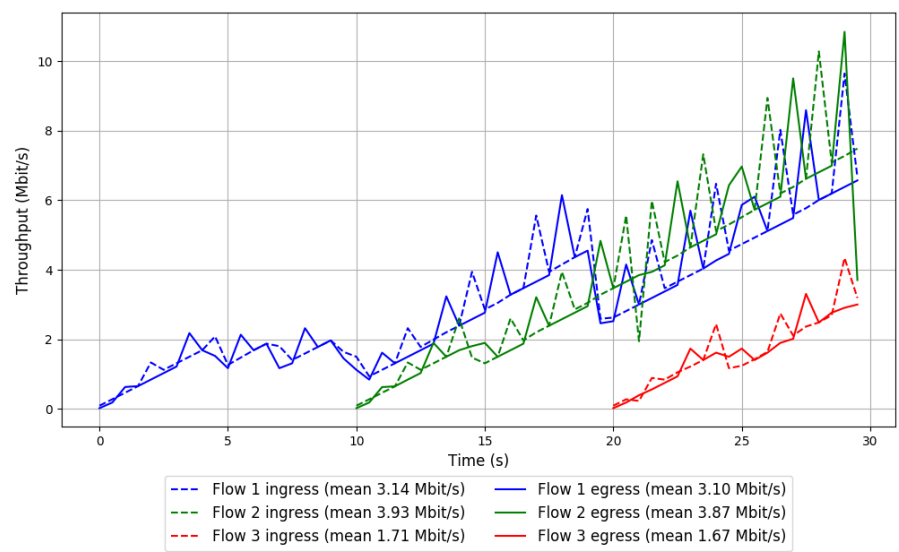
-- Flow 3:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 113.933 ms

Loss rate: 4.78%

Run 7: Report of LEDBAT — Data Link

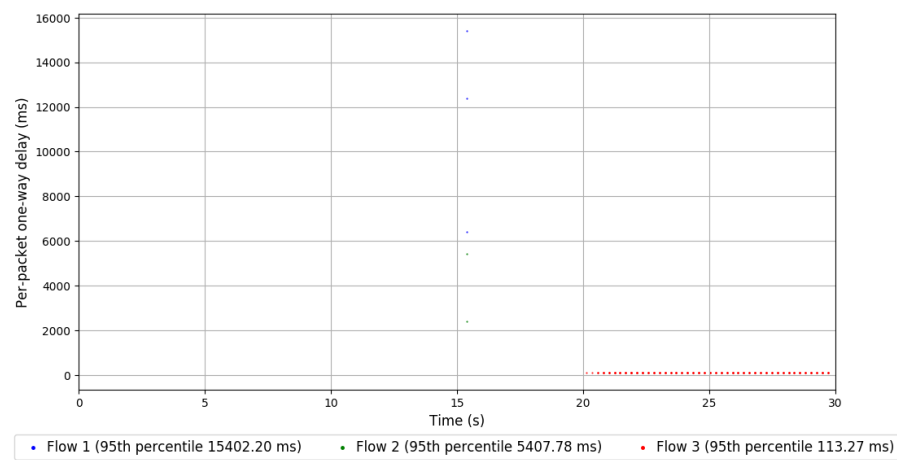
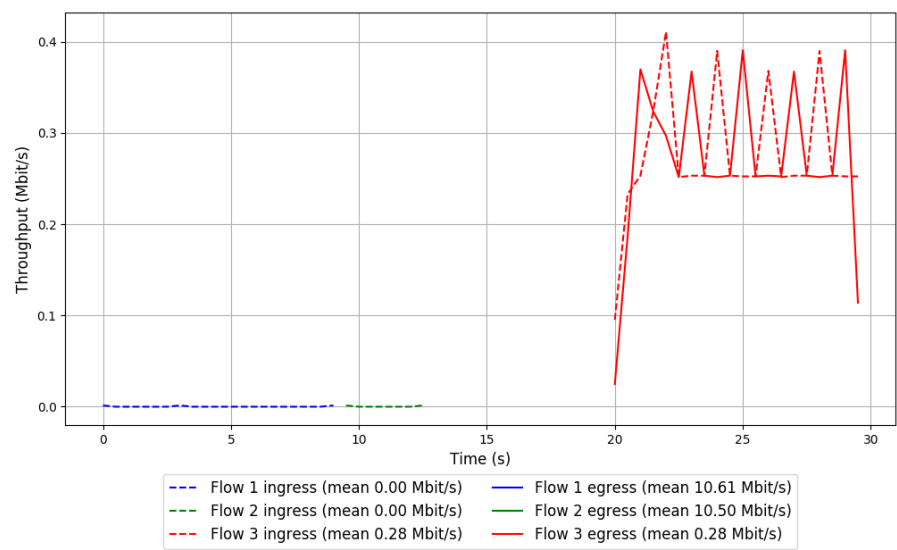


Run 8: Statistics of LEDBAT

Start at: 2017-09-22 02:30:49

End at: 2017-09-22 02:31:19

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-22 02:44:07

End at: 2017-09-22 02:44:37

Below is generated by plot.py at 2017-09-22 05:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 113.318 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 113.335 ms

Loss rate: 2.11%

-- Flow 2:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 113.146 ms

Loss rate: 5.17%

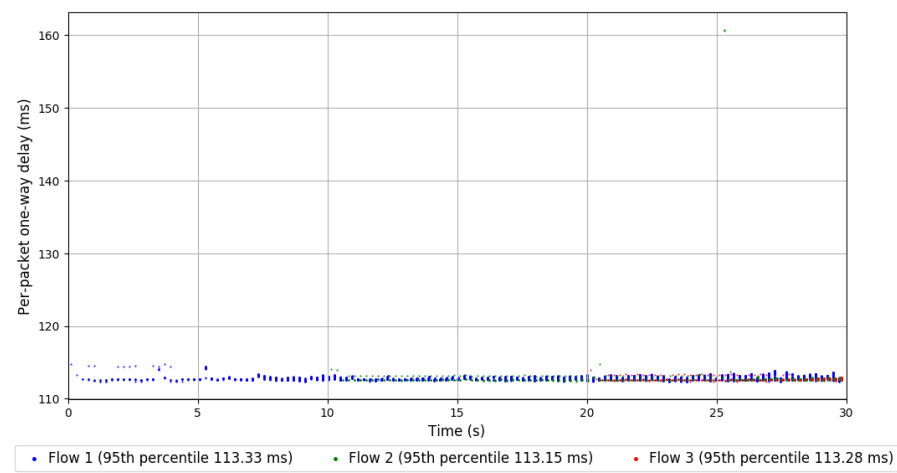
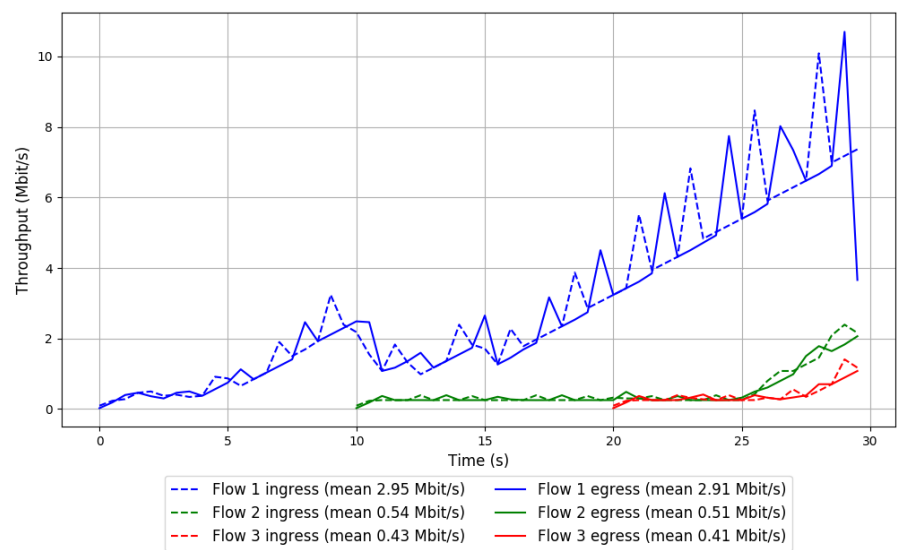
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 113.279 ms

Loss rate: 7.16%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-22 02:57:49

End at: 2017-09-22 02:58:19

Below is generated by plot.py at 2017-09-22 05:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 115.426 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 115.458 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 115.319 ms

Loss rate: 3.27%

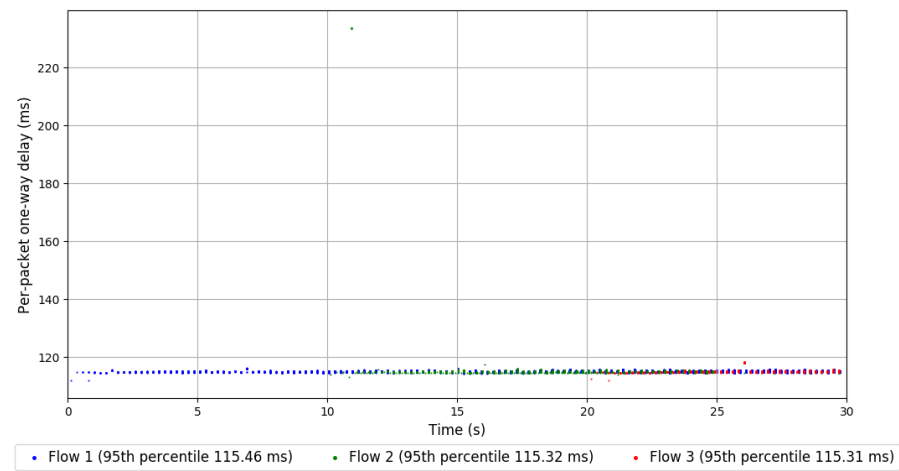
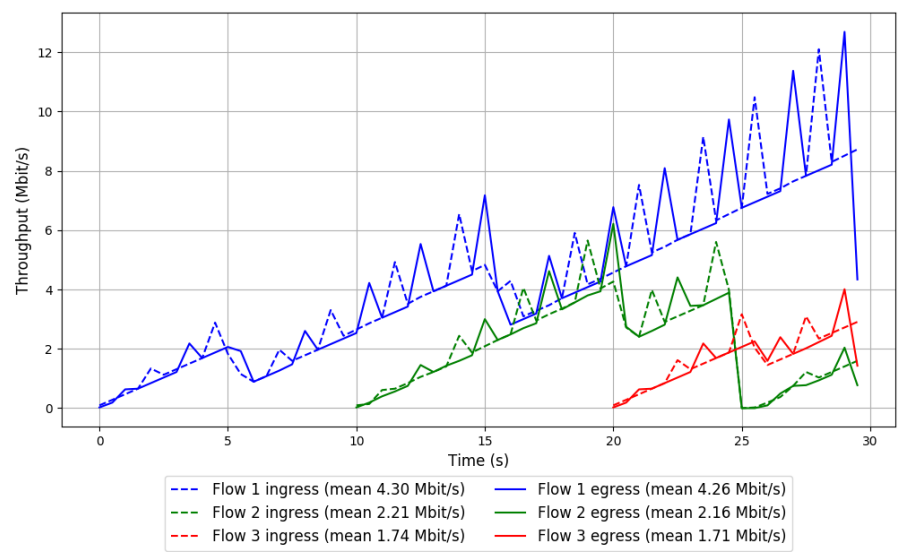
-- Flow 3:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 115.309 ms

Loss rate: 4.34%

Run 10: Report of LEDBAT — Data Link

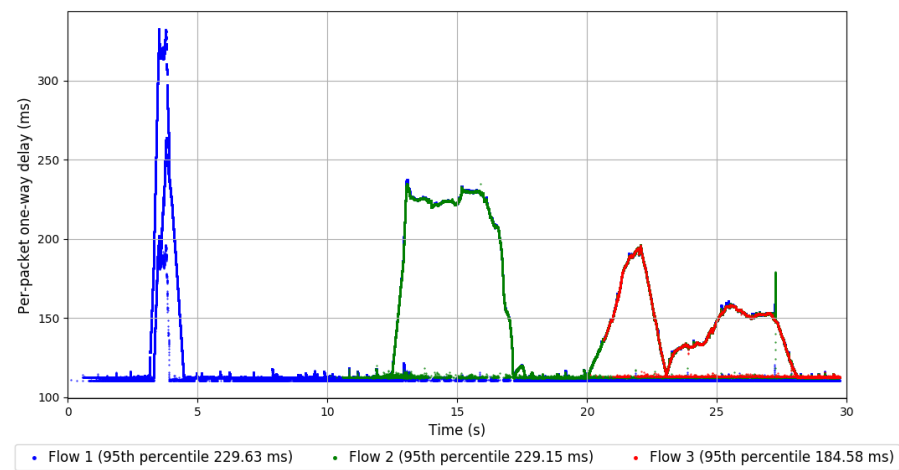
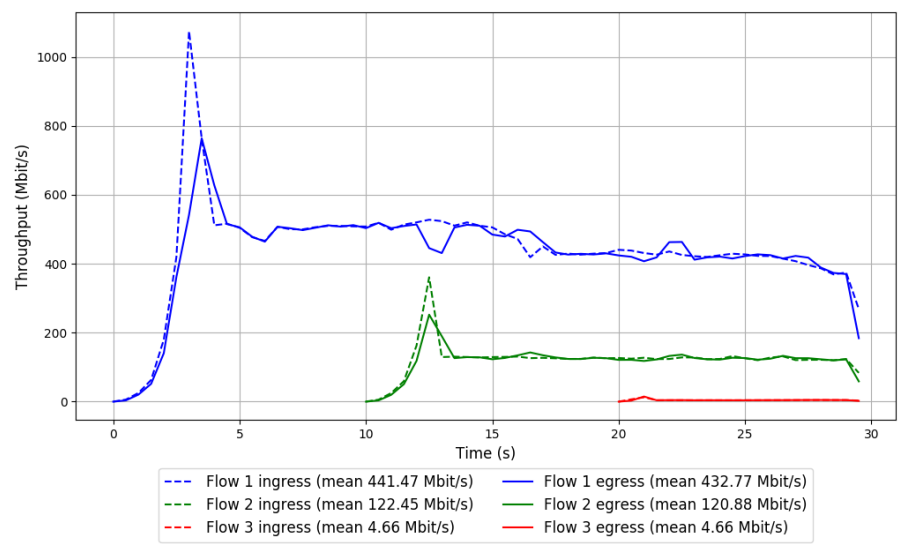


```
Run 1: Statistics of PCC

Start at: 2017-09-22 01:04:38
End at: 2017-09-22 01:05:08

# Below is generated by plot.py at 2017-09-22 05:39:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 514.31 Mbit/s
95th percentile per-packet one-way delay: 229.554 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 432.77 Mbit/s
95th percentile per-packet one-way delay: 229.627 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 120.88 Mbit/s
95th percentile per-packet one-way delay: 229.150 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 184.583 ms
Loss rate: 2.24%
```

Run 1: Report of PCC — Data Link

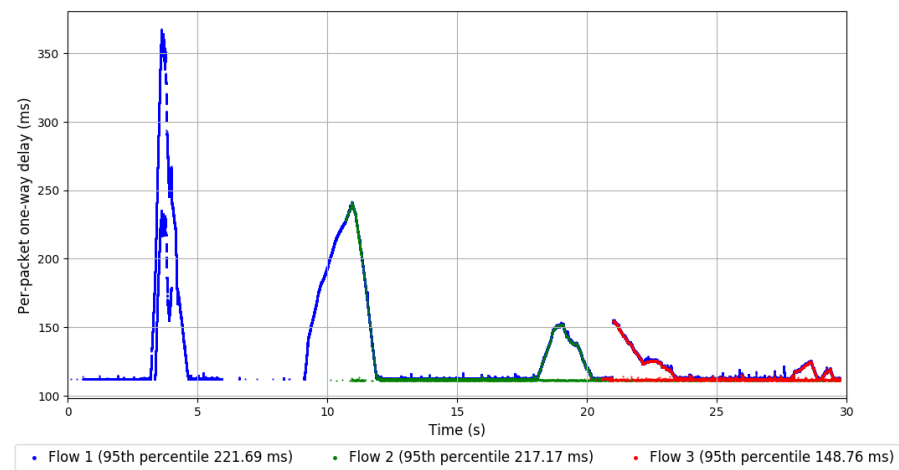
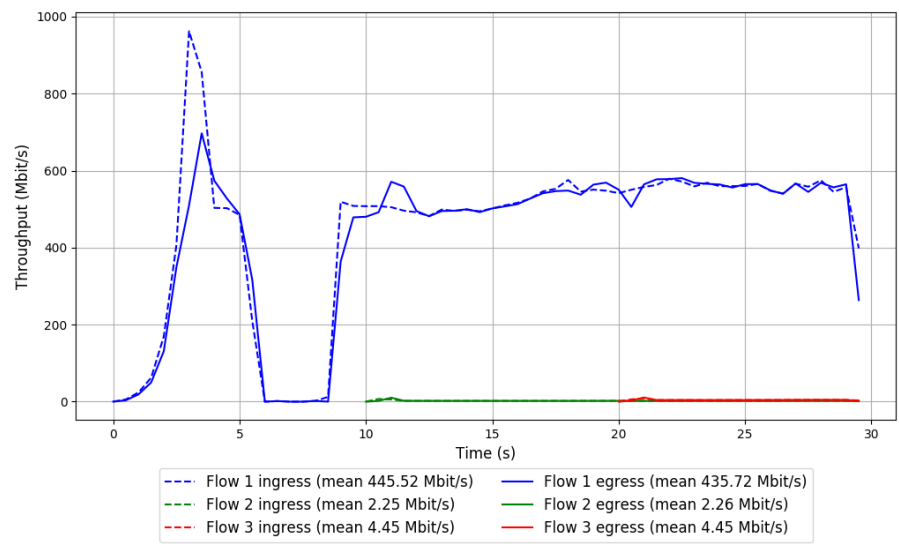


```
Run 2: Statistics of PCC

Start at: 2017-09-22 01:17:38
End at: 2017-09-22 01:18:08

# Below is generated by plot.py at 2017-09-22 05:39:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.65 Mbit/s
95th percentile per-packet one-way delay: 221.564 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 435.72 Mbit/s
95th percentile per-packet one-way delay: 221.692 ms
Loss rate: 2.94%
-- Flow 2:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 217.174 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 148.759 ms
Loss rate: 2.37%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-22 01:31:03

End at: 2017-09-22 01:31:33

Below is generated by plot.py at 2017-09-22 05:40:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 529.47 Mbit/s

95th percentile per-packet one-way delay: 235.009 ms

Loss rate: 3.22%

-- Flow 1:

Average throughput: 483.02 Mbit/s

95th percentile per-packet one-way delay: 235.024 ms

Loss rate: 3.23%

-- Flow 2:

Average throughput: 69.00 Mbit/s

95th percentile per-packet one-way delay: 234.905 ms

Loss rate: 3.08%

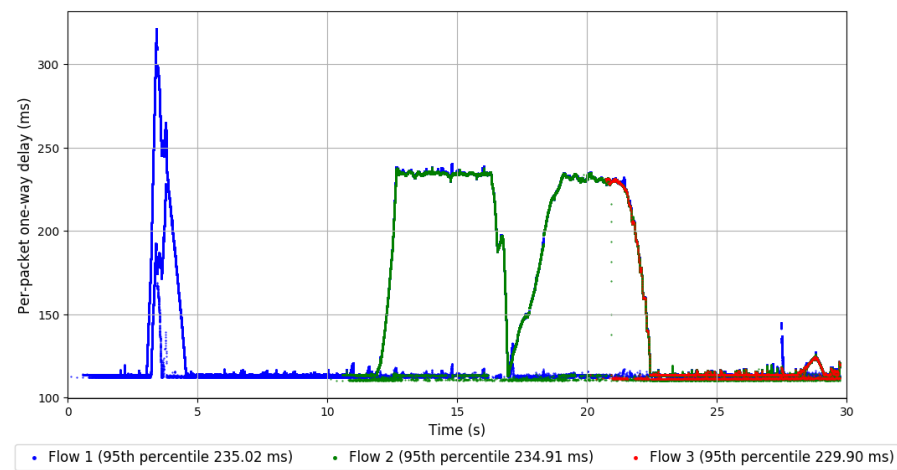
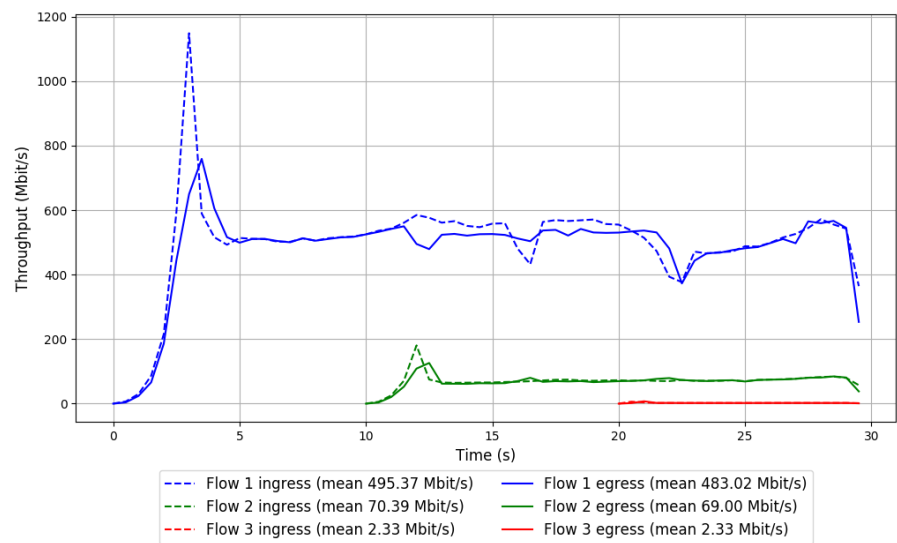
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 229.902 ms

Loss rate: 2.21%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-22 01:44:26

End at: 2017-09-22 01:44:56

Below is generated by plot.py at 2017-09-22 05:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 541.63 Mbit/s

95th percentile per-packet one-way delay: 232.046 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 473.86 Mbit/s

95th percentile per-packet one-way delay: 232.432 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 231.391 ms

Loss rate: 1.41%

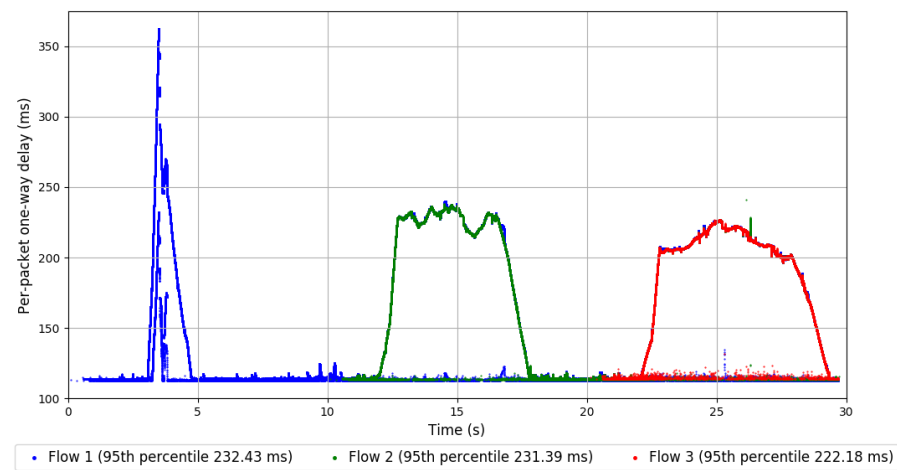
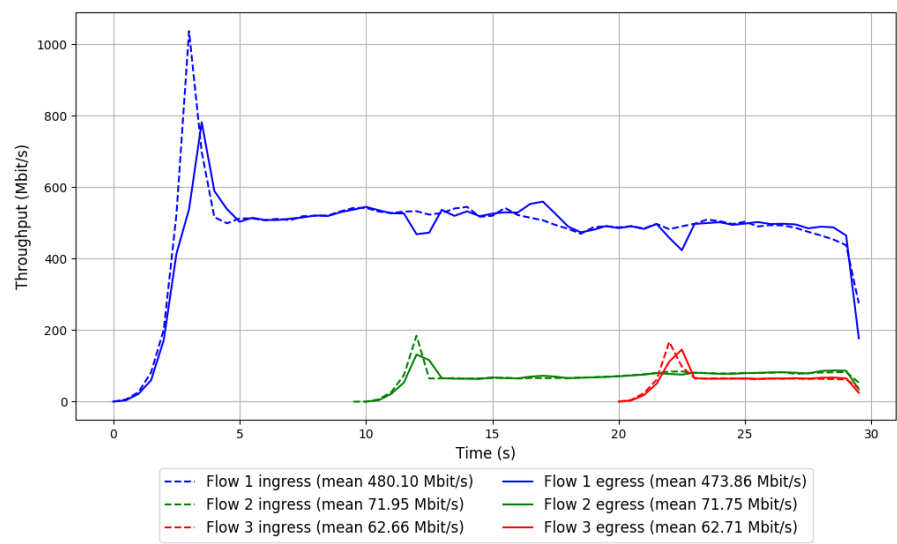
-- Flow 3:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 222.175 ms

Loss rate: 2.25%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-22 01:58:01

End at: 2017-09-22 01:58:31

Below is generated by plot.py at 2017-09-22 05:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 524.58 Mbit/s

95th percentile per-packet one-way delay: 241.986 ms

Loss rate: 3.38%

-- Flow 1:

Average throughput: 463.22 Mbit/s

95th percentile per-packet one-way delay: 242.533 ms

Loss rate: 3.27%

-- Flow 2:

Average throughput: 63.08 Mbit/s

95th percentile per-packet one-way delay: 241.925 ms

Loss rate: 3.03%

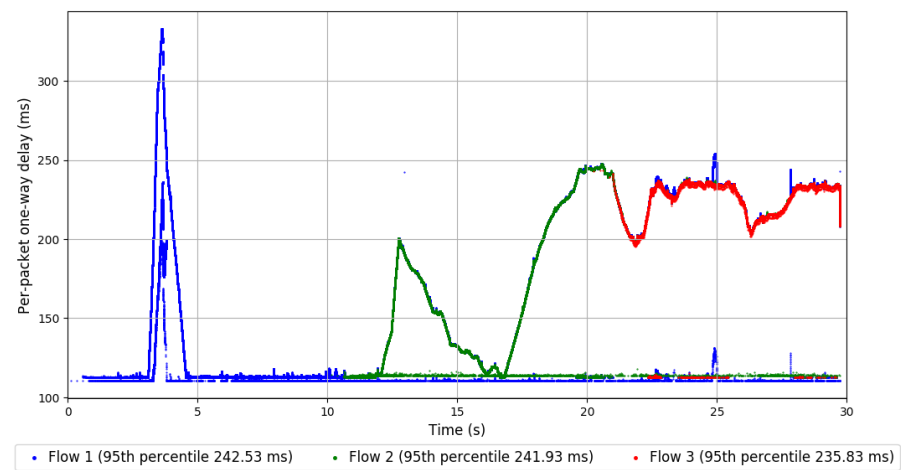
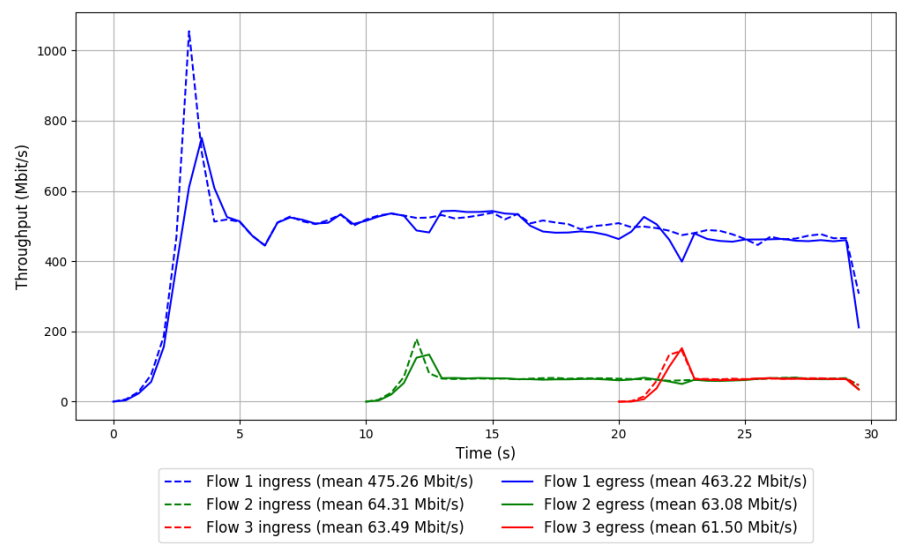
-- Flow 3:

Average throughput: 61.50 Mbit/s

95th percentile per-packet one-way delay: 235.828 ms

Loss rate: 6.64%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-22 02:11:42

End at: 2017-09-22 02:12:12

Below is generated by plot.py at 2017-09-22 05:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 510.42 Mbit/s

95th percentile per-packet one-way delay: 236.662 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 446.73 Mbit/s

95th percentile per-packet one-way delay: 235.965 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 236.848 ms

Loss rate: 1.48%

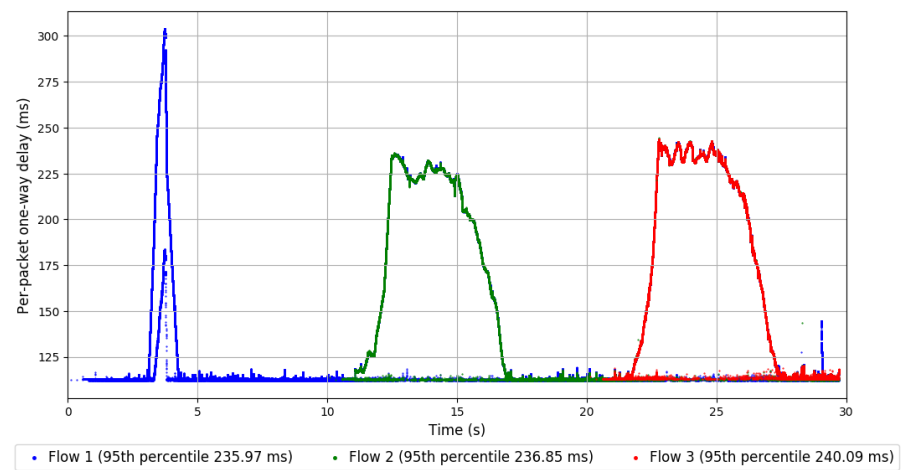
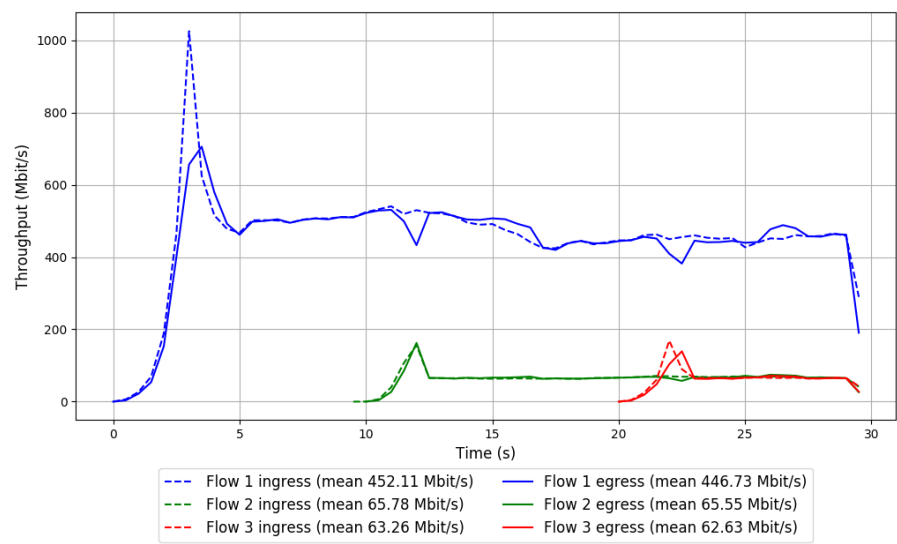
-- Flow 3:

Average throughput: 62.63 Mbit/s

95th percentile per-packet one-way delay: 240.085 ms

Loss rate: 3.30%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-22 02:24:38

End at: 2017-09-22 02:25:08

Below is generated by plot.py at 2017-09-22 05:40:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.52 Mbit/s

95th percentile per-packet one-way delay: 232.162 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 449.05 Mbit/s

95th percentile per-packet one-way delay: 232.105 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 114.89 Mbit/s

95th percentile per-packet one-way delay: 232.448 ms

Loss rate: 2.66%

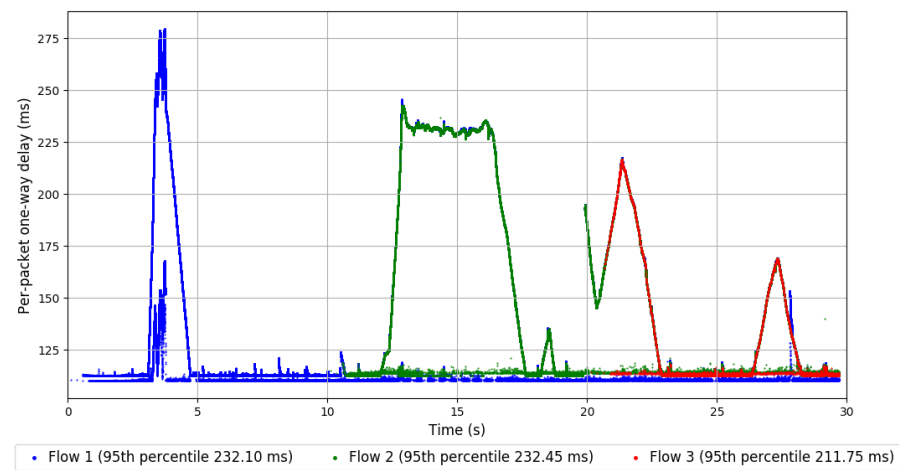
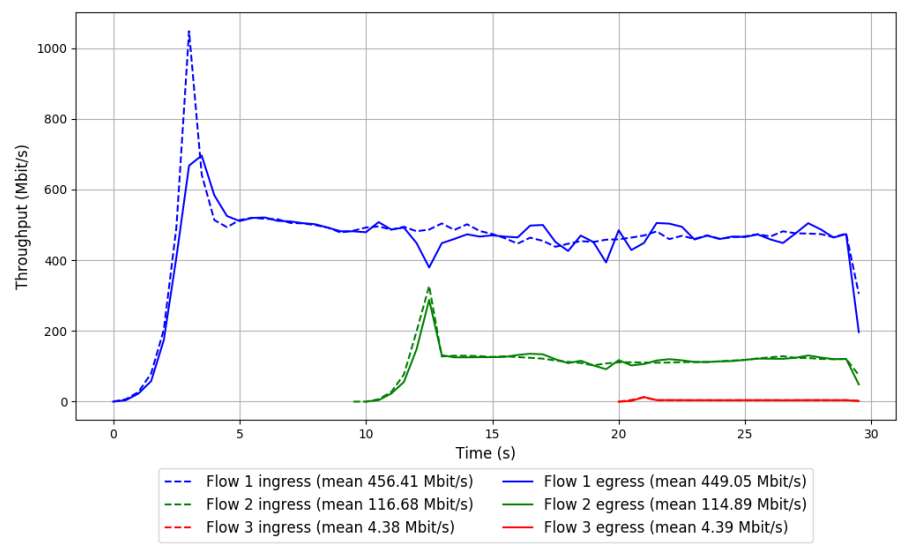
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 211.752 ms

Loss rate: 2.20%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-22 02:38:06

End at: 2017-09-22 02:38:36

Below is generated by plot.py at 2017-09-22 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.79 Mbit/s

95th percentile per-packet one-way delay: 239.022 ms

Loss rate: 3.97%

-- Flow 1:

Average throughput: 450.64 Mbit/s

95th percentile per-packet one-way delay: 238.894 ms

Loss rate: 3.68%

-- Flow 2:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 238.502 ms

Loss rate: 3.68%

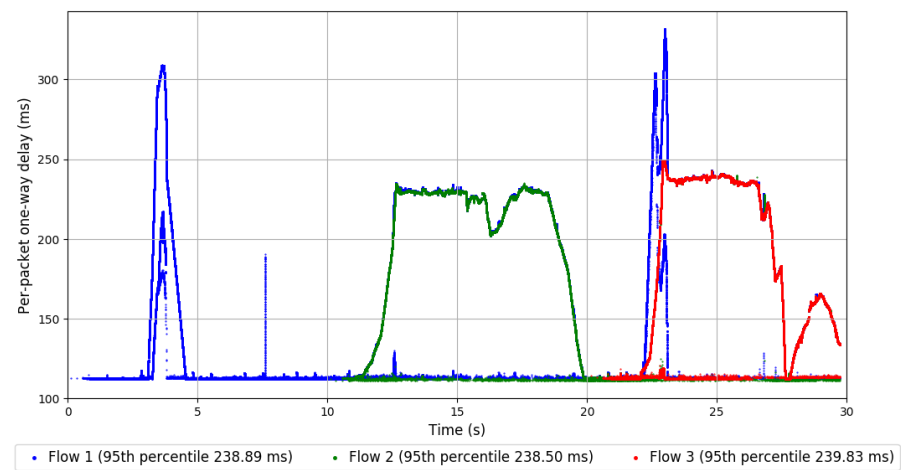
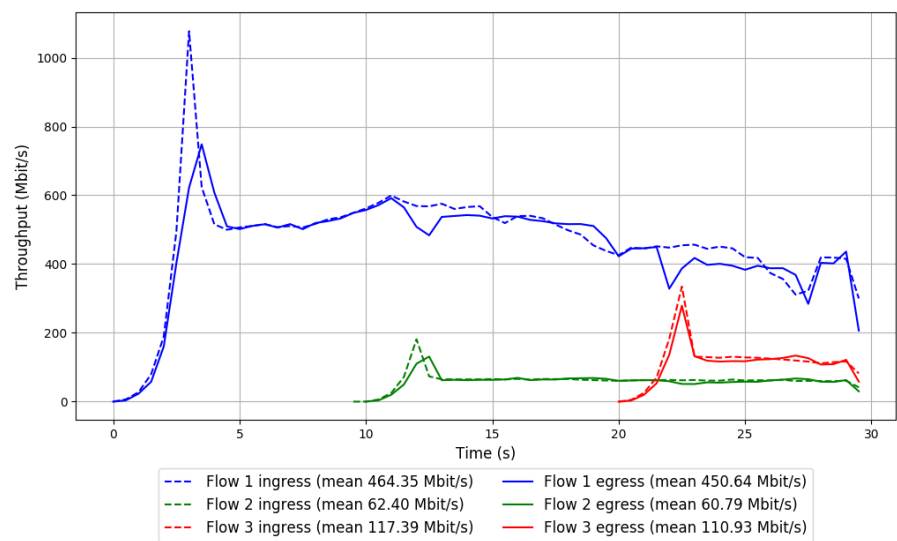
-- Flow 3:

Average throughput: 110.93 Mbit/s

95th percentile per-packet one-way delay: 239.829 ms

Loss rate: 7.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-22 02:51:42

End at: 2017-09-22 02:52:12

Below is generated by plot.py at 2017-09-22 05:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 506.95 Mbit/s

95th percentile per-packet one-way delay: 224.598 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 502.44 Mbit/s

95th percentile per-packet one-way delay: 224.680 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 220.663 ms

Loss rate: 1.42%

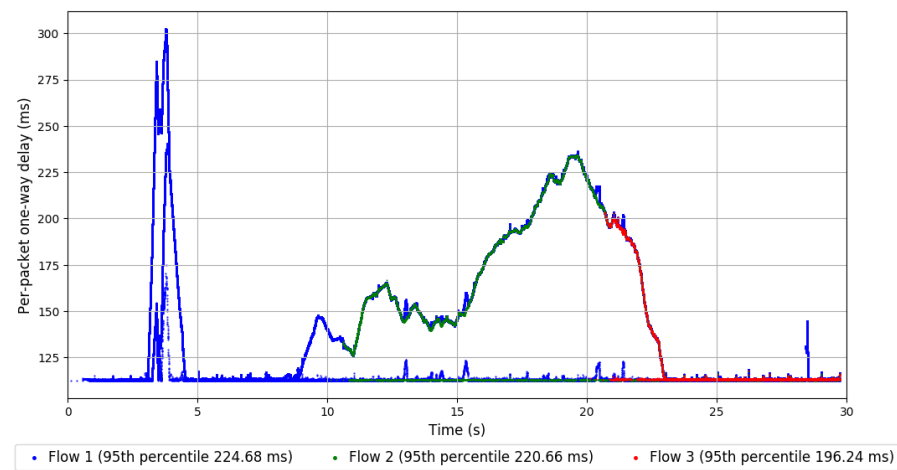
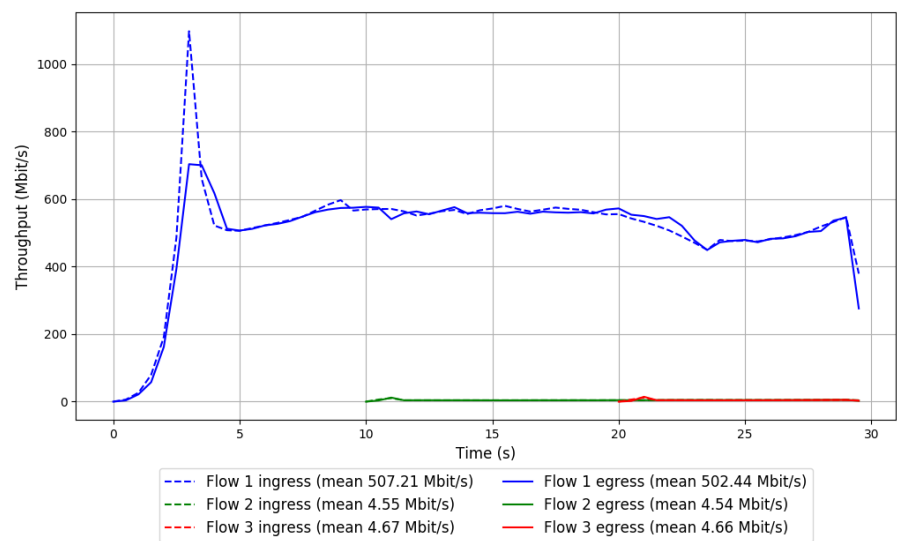
-- Flow 3:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 196.242 ms

Loss rate: 2.65%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-22 03:04:51

End at: 2017-09-22 03:05:21

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 533.09 Mbit/s

95th percentile per-packet one-way delay: 211.562 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 469.61 Mbit/s

95th percentile per-packet one-way delay: 217.475 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 195.838 ms

Loss rate: 1.20%

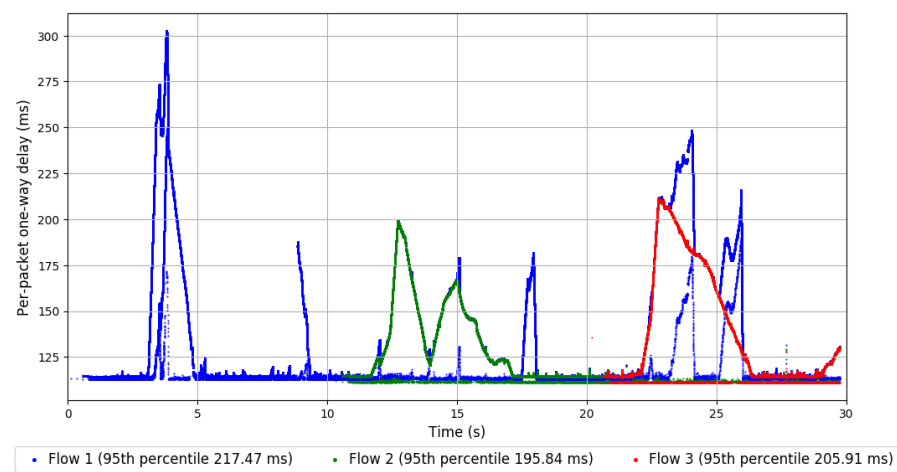
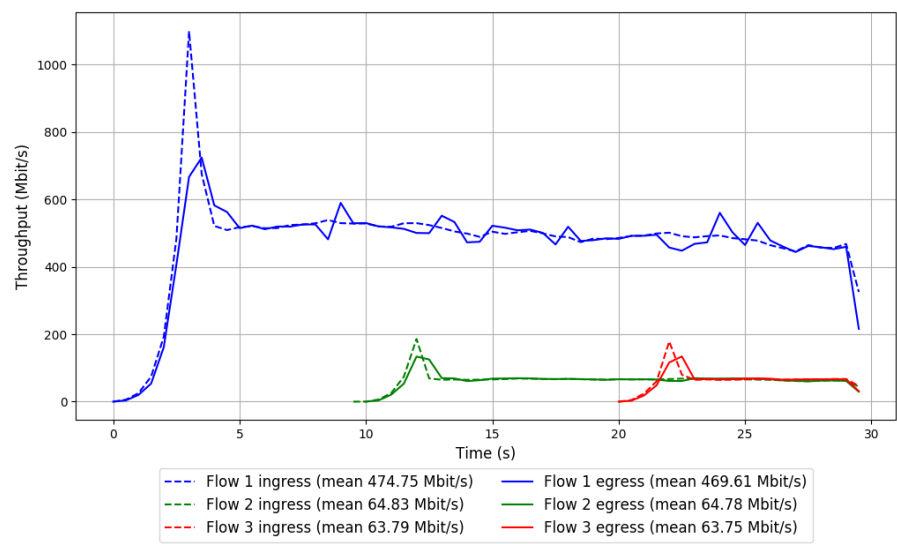
-- Flow 3:

Average throughput: 63.75 Mbit/s

95th percentile per-packet one-way delay: 205.905 ms

Loss rate: 2.58%

Run 10: Report of PCC — Data Link

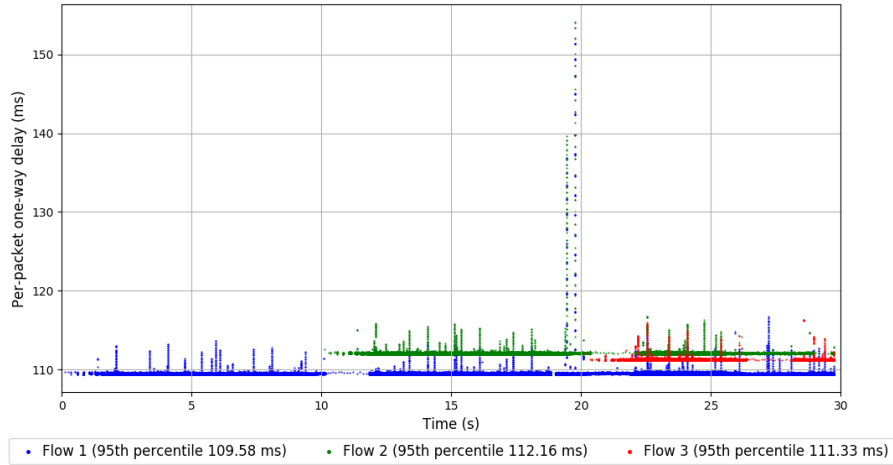
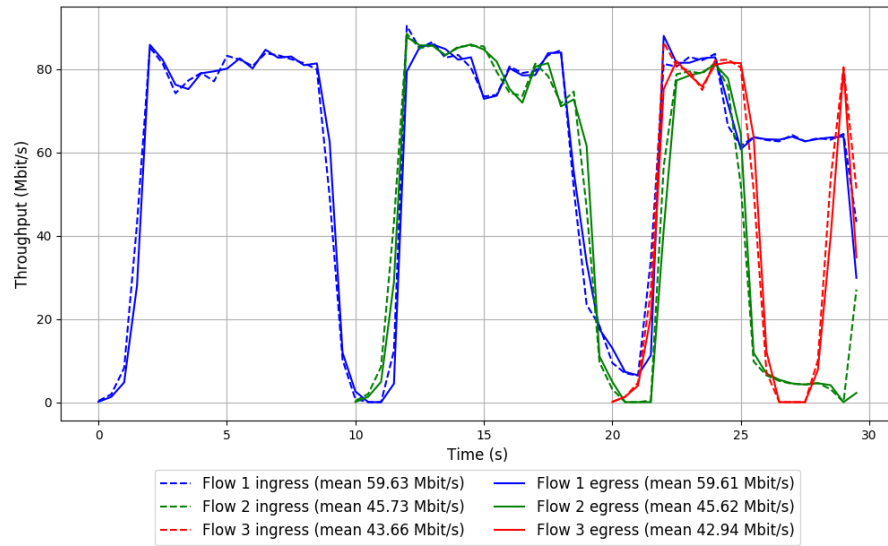


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-22 01:00:05
End at: 2017-09-22 01:00:35

# Below is generated by plot.py at 2017-09-22 05:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.65 Mbit/s
95th percentile per-packet one-way delay: 112.102 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 109.584 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 112.161 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 42.94 Mbit/s
95th percentile per-packet one-way delay: 111.335 ms
Loss rate: 3.89%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-22 01:13:00

End at: 2017-09-22 01:13:30

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.69 Mbit/s

95th percentile per-packet one-way delay: 112.767 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 109.588 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 60.21 Mbit/s

95th percentile per-packet one-way delay: 112.811 ms

Loss rate: 0.61%

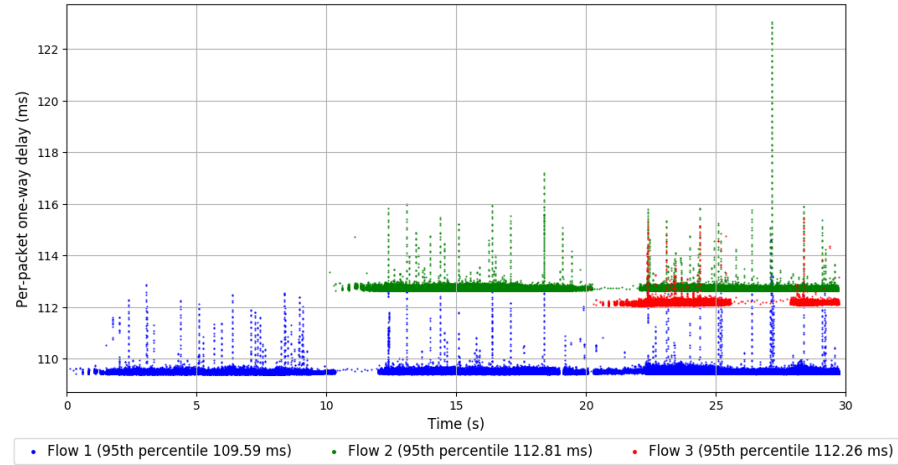
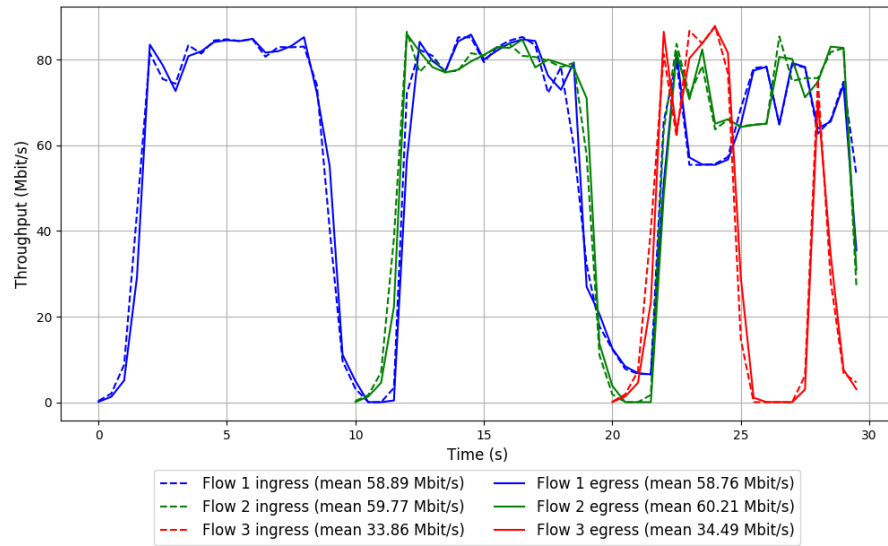
-- Flow 3:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 112.258 ms

Loss rate: 0.45%

Run 2: Report of QUIC Cubic — Data Link

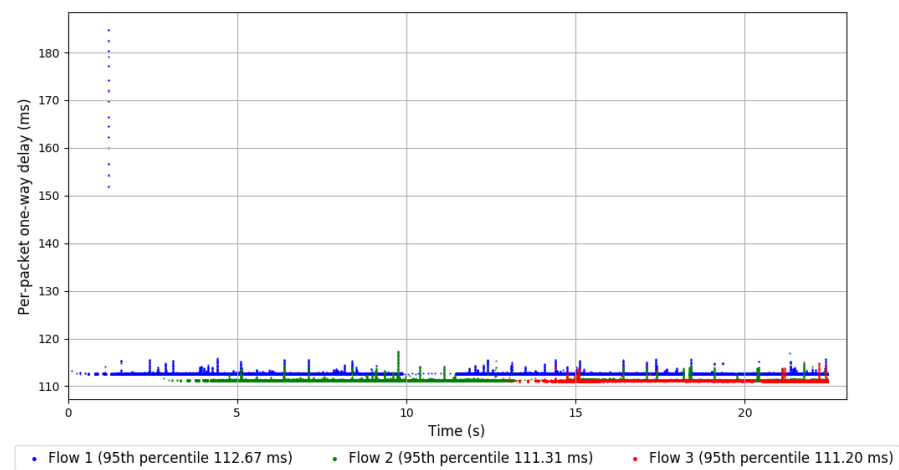
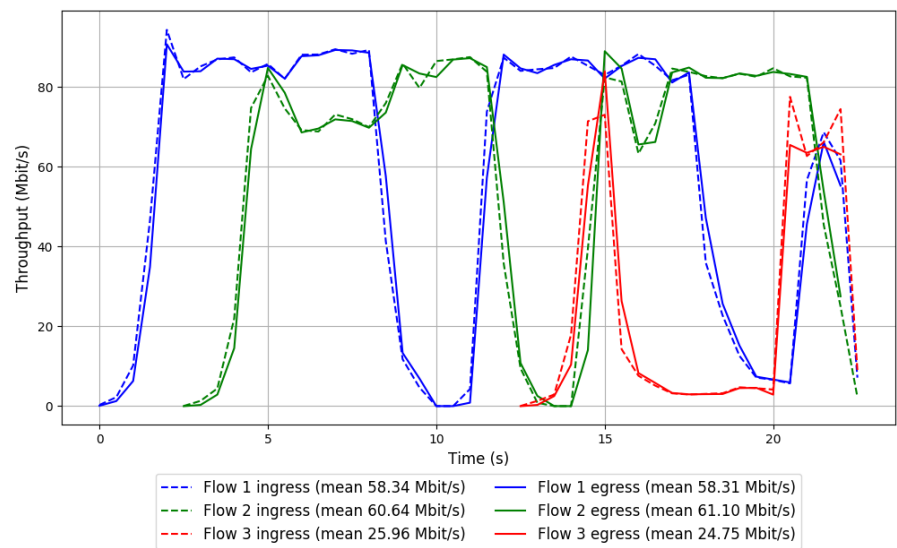


Run 3: Statistics of QUIC Cubic

Start at: 2017-09-22 01:26:27

End at: 2017-09-22 01:26:57

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-22 01:39:48

End at: 2017-09-22 01:40:18

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.12 Mbit/s

95th percentile per-packet one-way delay: 113.669 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 113.707 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 112.905 ms

Loss rate: 1.23%

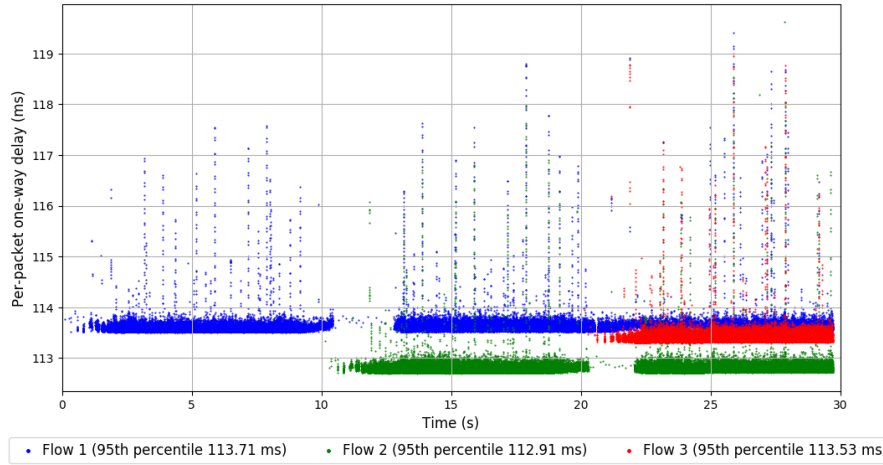
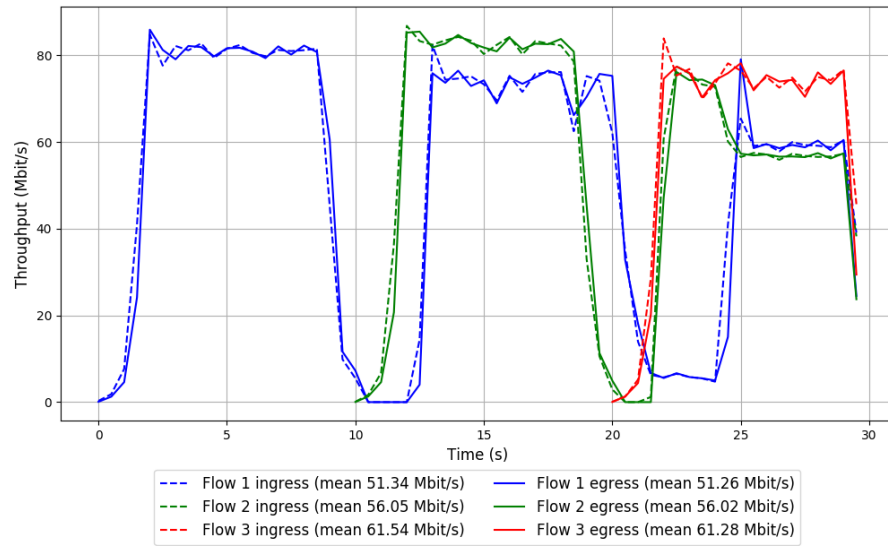
-- Flow 3:

Average throughput: 61.28 Mbit/s

95th percentile per-packet one-way delay: 113.534 ms

Loss rate: 2.77%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-22 01:53:11

End at: 2017-09-22 01:53:41

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.72 Mbit/s

95th percentile per-packet one-way delay: 112.927 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 112.940 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 112.915 ms

Loss rate: 1.57%

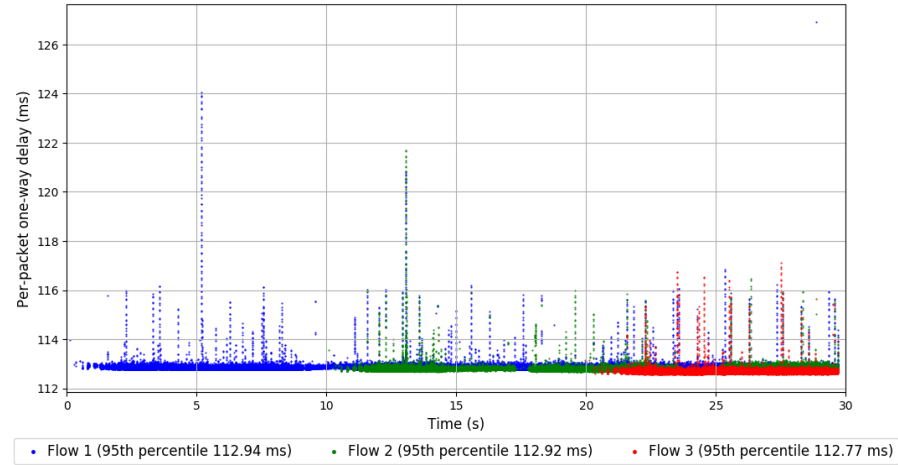
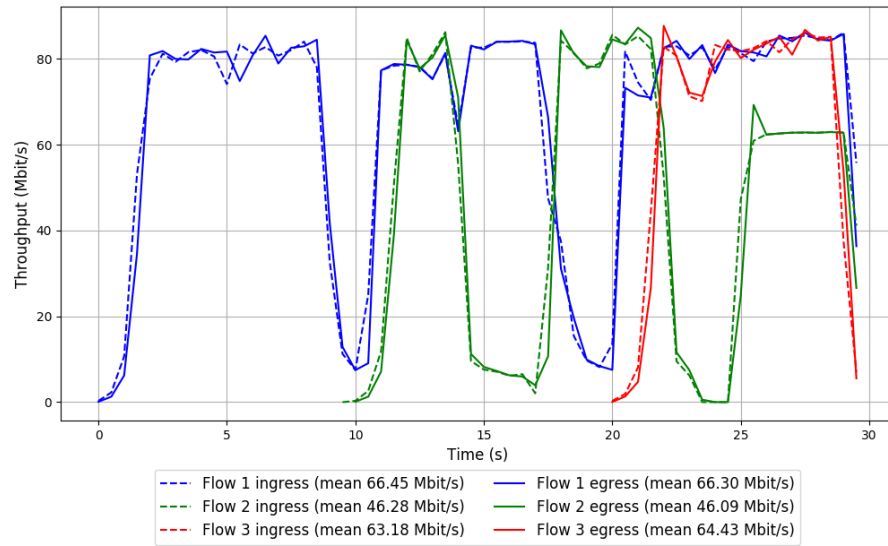
-- Flow 3:

Average throughput: 64.43 Mbit/s

95th percentile per-packet one-way delay: 112.766 ms

Loss rate: 0.38%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-22 02:07:08

End at: 2017-09-22 02:07:38

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.35 Mbit/s

95th percentile per-packet one-way delay: 114.289 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 53.44 Mbit/s

95th percentile per-packet one-way delay: 114.324 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 113.162 ms

Loss rate: 1.28%

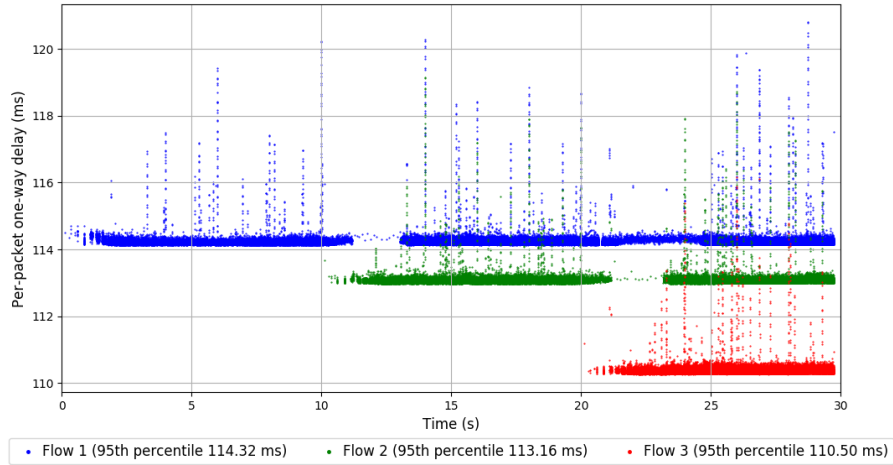
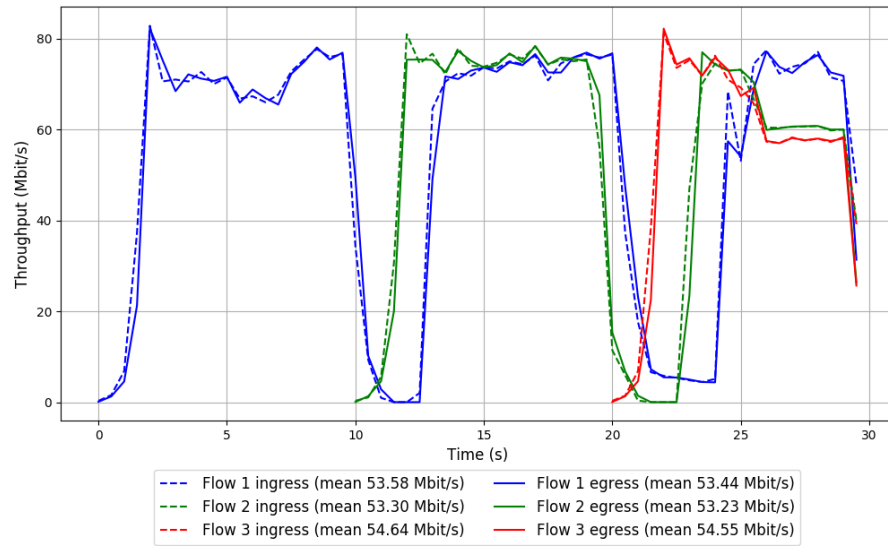
-- Flow 3:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 110.503 ms

Loss rate: 2.45%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-22 02:20:03

End at: 2017-09-22 02:20:33

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.29 Mbit/s

95th percentile per-packet one-way delay: 113.075 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 53.29 Mbit/s

95th percentile per-packet one-way delay: 113.112 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 52.81 Mbit/s

95th percentile per-packet one-way delay: 110.724 ms

Loss rate: 1.23%

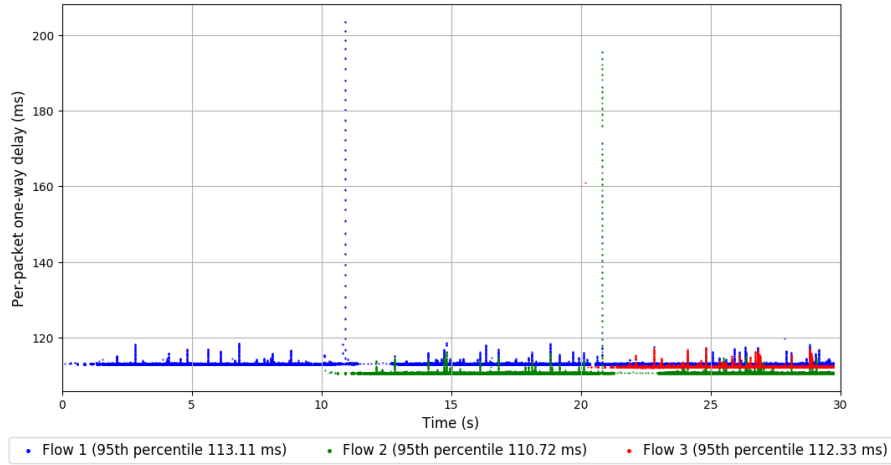
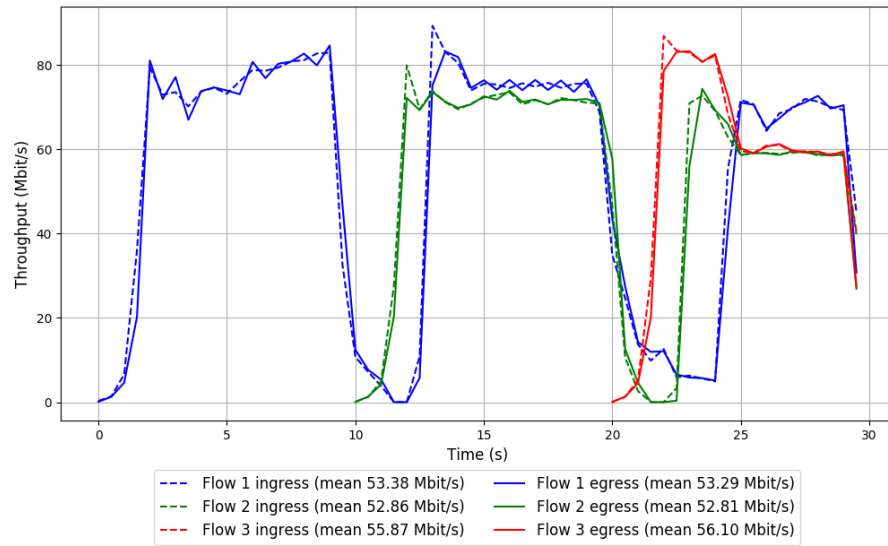
-- Flow 3:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 112.330 ms

Loss rate: 2.40%

Run 7: Report of QUIC Cubic — Data Link

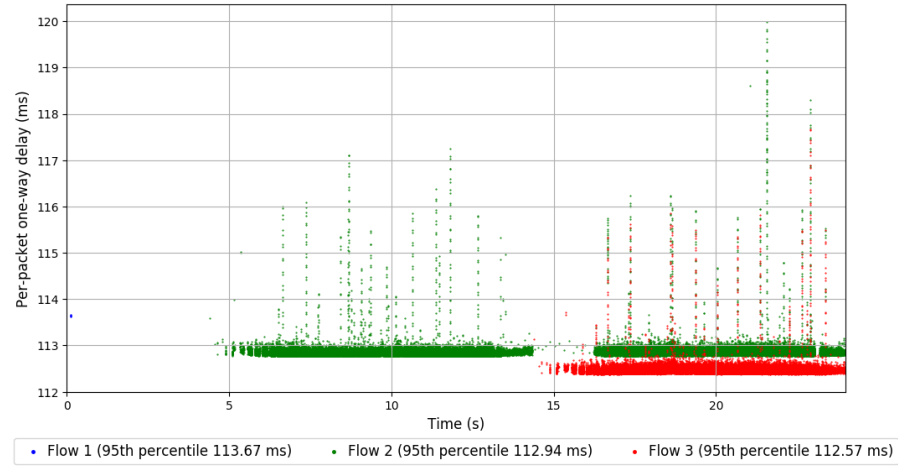
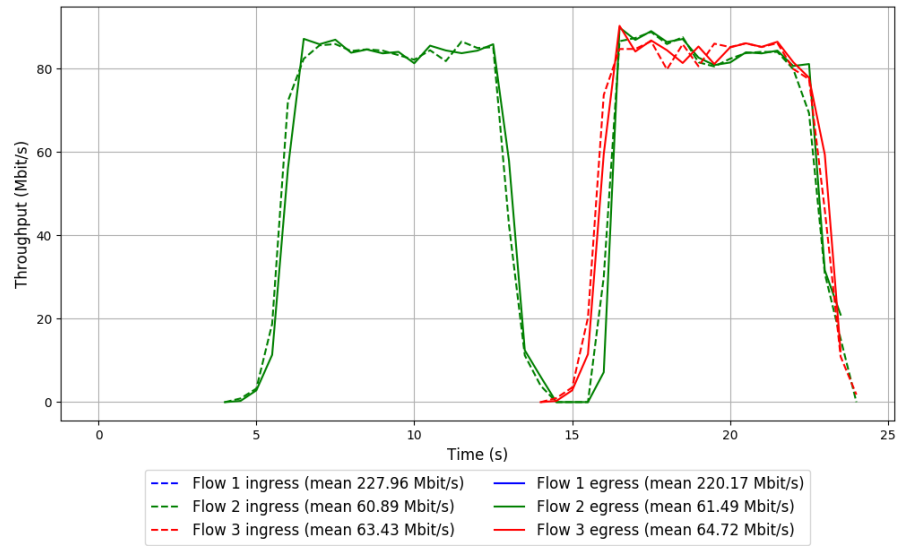


Run 8: Statistics of QUIC Cubic

Start at: 2017-09-22 02:33:28

End at: 2017-09-22 02:33:58

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-22 02:47:04

End at: 2017-09-22 02:47:34

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.69 Mbit/s

95th percentile per-packet one-way delay: 112.863 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 112.889 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 111.515 ms

Loss rate: 0.18%

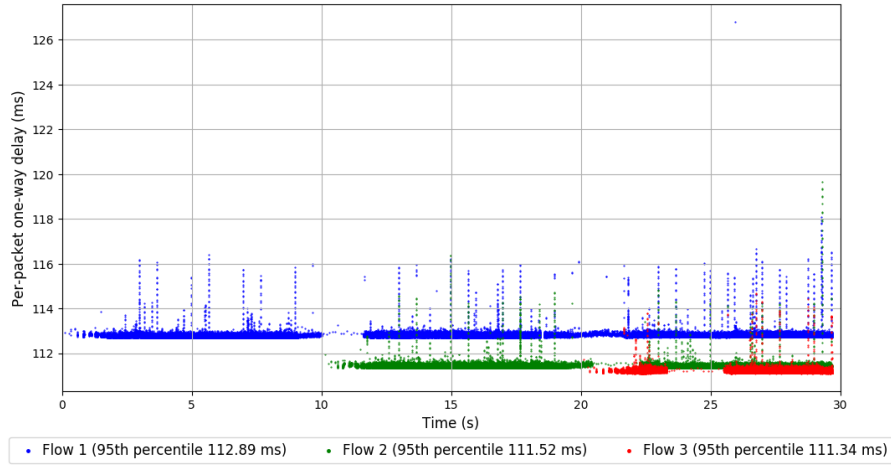
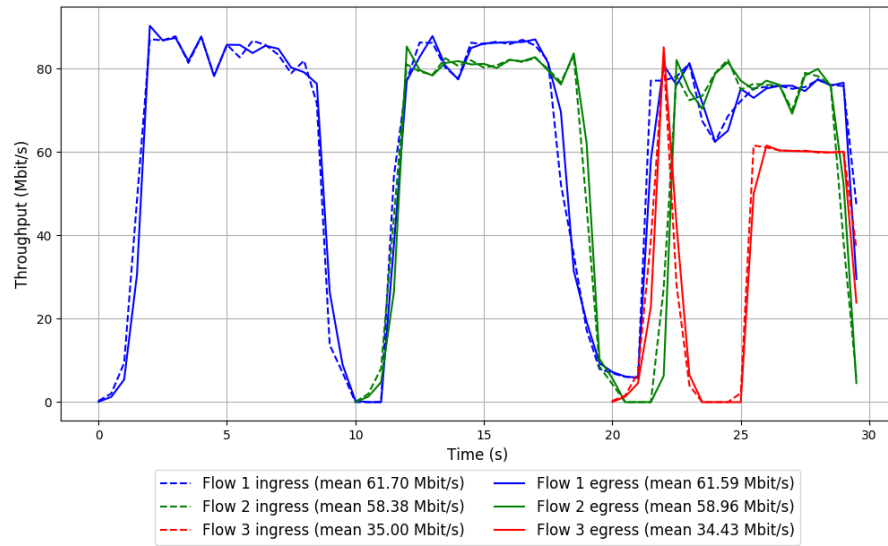
-- Flow 3:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 111.343 ms

Loss rate: 3.84%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-22 03:00:16

End at: 2017-09-22 03:00:46

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.06 Mbit/s

95th percentile per-packet one-way delay: 112.909 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 109.633 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 47.80 Mbit/s

95th percentile per-packet one-way delay: 112.395 ms

Loss rate: 1.49%

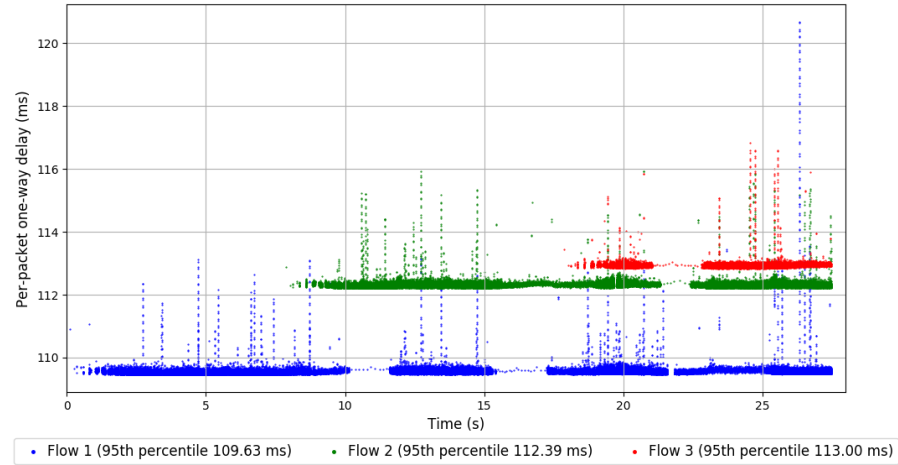
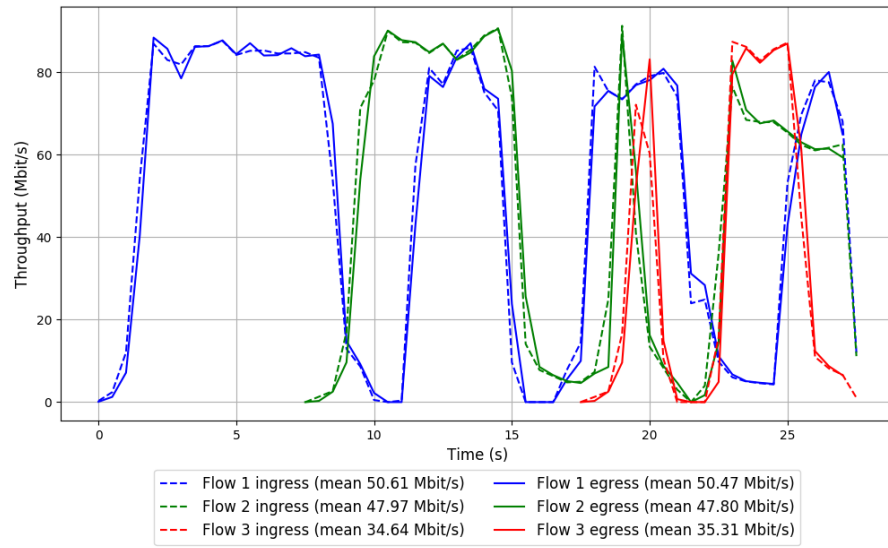
-- Flow 3:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 112.996 ms

Loss rate: 0.41%

Run 10: Report of QUIC Cubic — Data Link

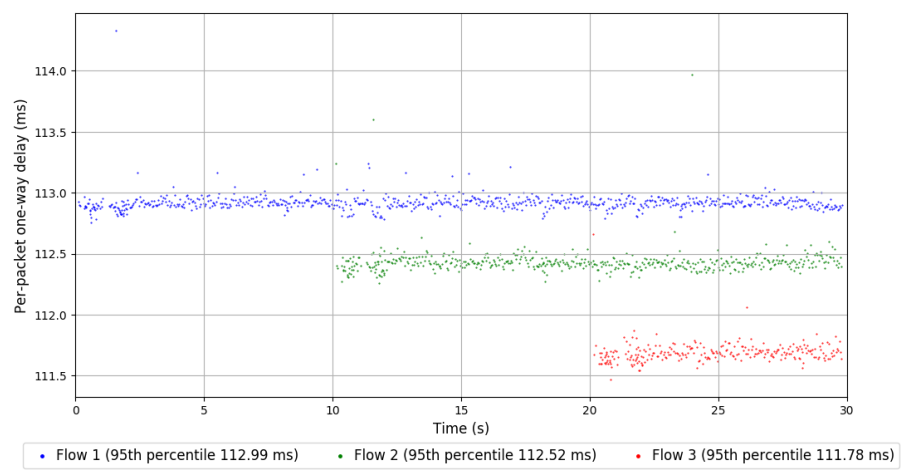
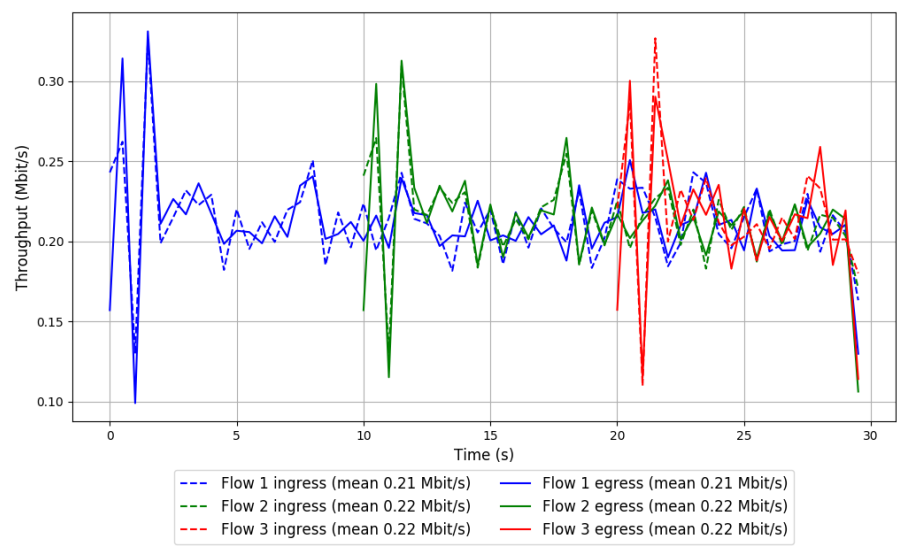


```
Run 1: Statistics of SCReAM

Start at: 2017-09-22 01:00:59
End at: 2017-09-22 01:01:29

# Below is generated by plot.py at 2017-09-22 05:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.970 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.986 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.518 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.783 ms
Loss rate: 2.25%
```

Run 1: Report of SReAM — Data Link

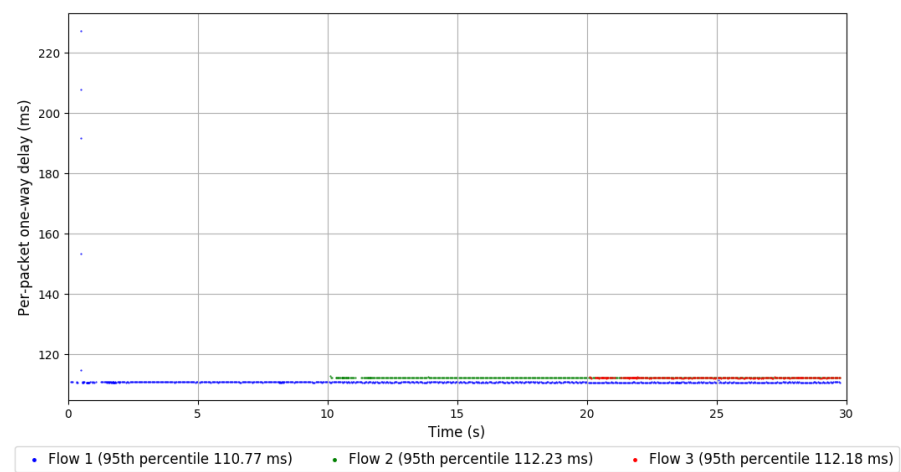
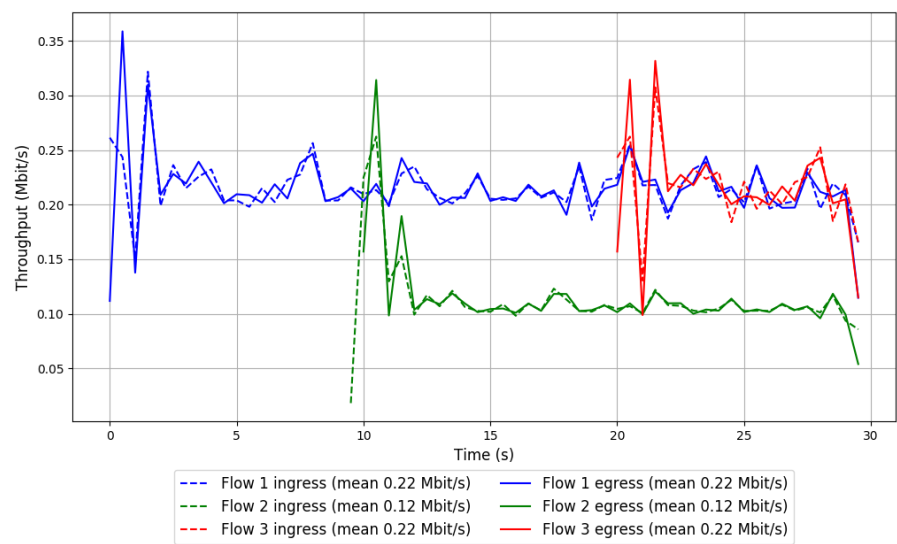


```
Run 2: Statistics of SCReAM

Start at: 2017-09-22 01:13:54
End at: 2017-09-22 01:14:24

# Below is generated by plot.py at 2017-09-22 05:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 112.203 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.768 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 112.228 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.179 ms
Loss rate: 2.25%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-09-22 01:27:20

End at: 2017-09-22 01:27:50

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 112.315 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.776 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 111.681 ms

Loss rate: 0.98%

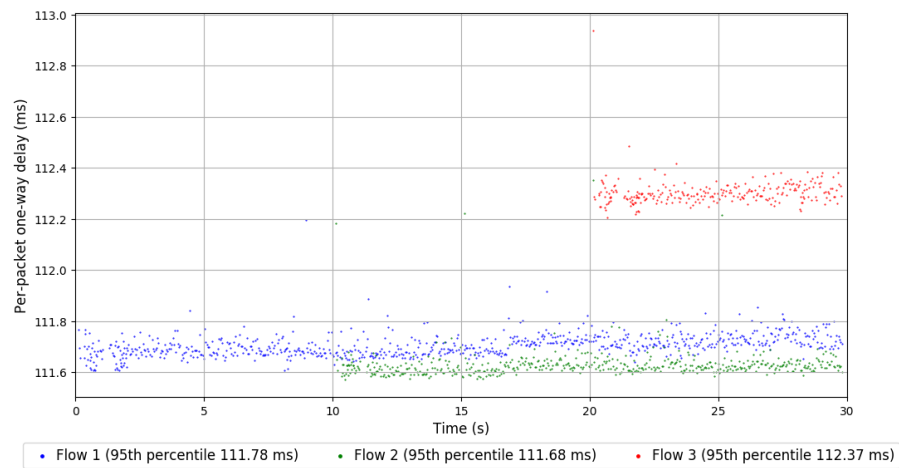
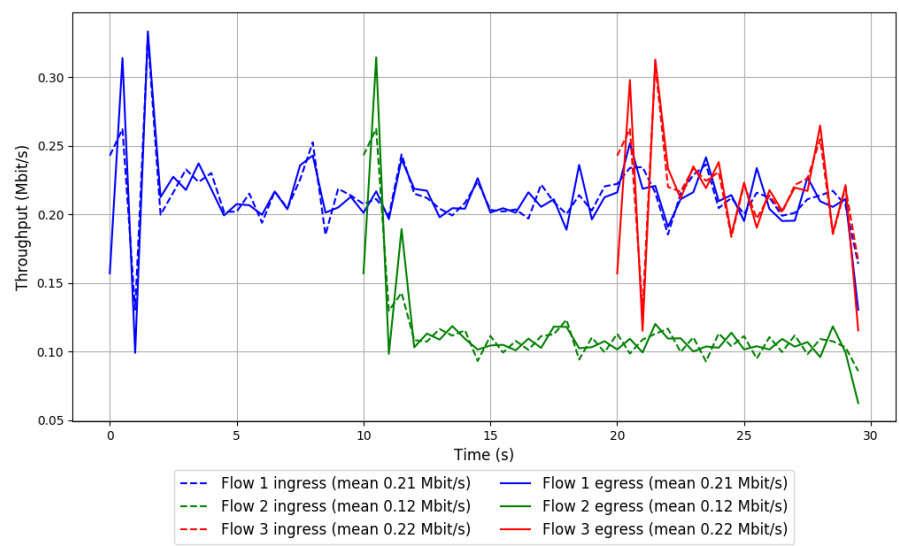
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.366 ms

Loss rate: 2.25%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-22 01:40:42

End at: 2017-09-22 01:41:12

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 113.867 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.531 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.914 ms

Loss rate: 1.25%

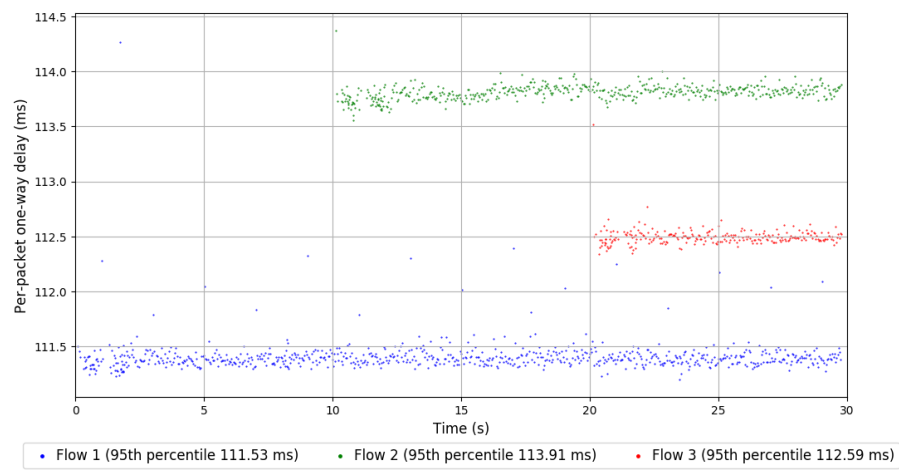
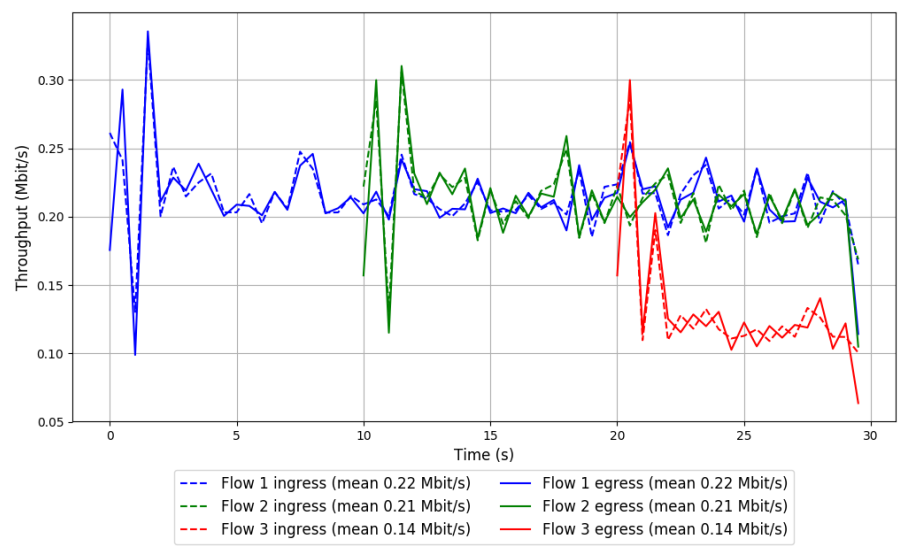
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 112.586 ms

Loss rate: 2.02%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-09-22 01:54:06

End at: 2017-09-22 01:54:36

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.753 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.783 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.163 ms

Loss rate: 1.25%

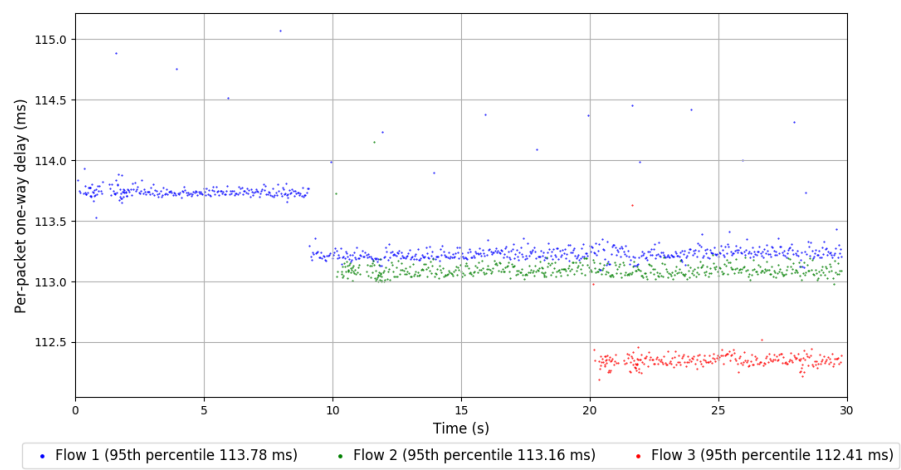
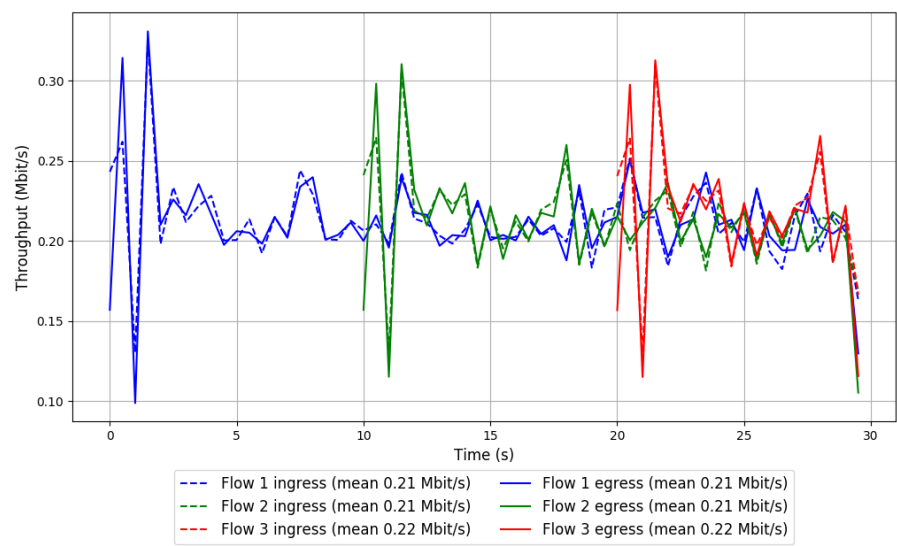
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.413 ms

Loss rate: 2.25%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-22 02:08:01

End at: 2017-09-22 02:08:31

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 112.491 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 112.510 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 111.663 ms

Loss rate: 0.97%

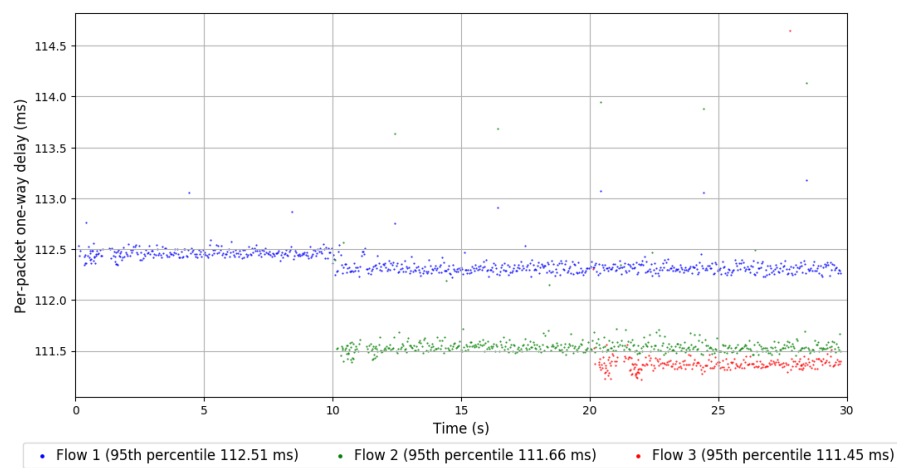
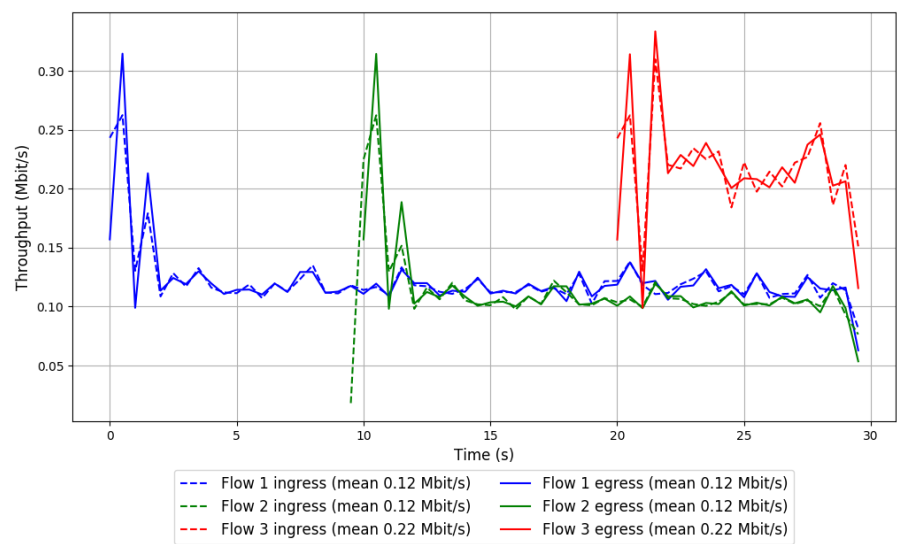
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.451 ms

Loss rate: 1.91%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-09-22 02:20:57

End at: 2017-09-22 02:21:27

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.150 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.626 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.602 ms

Loss rate: 1.05%

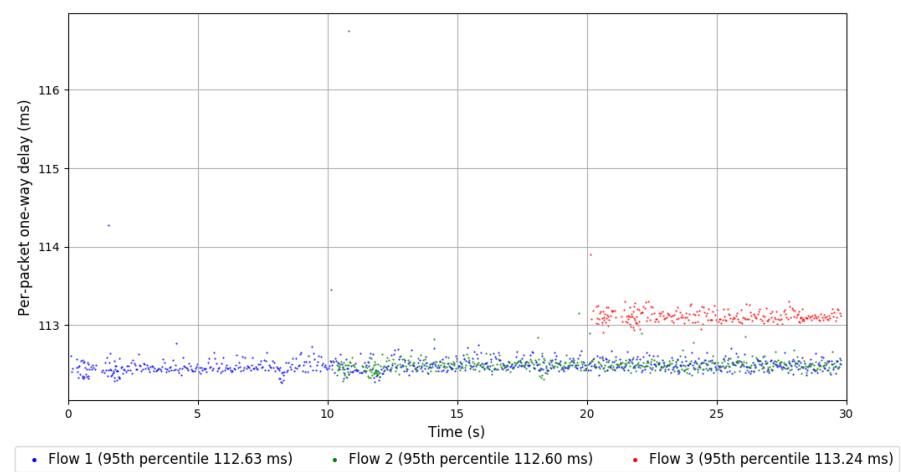
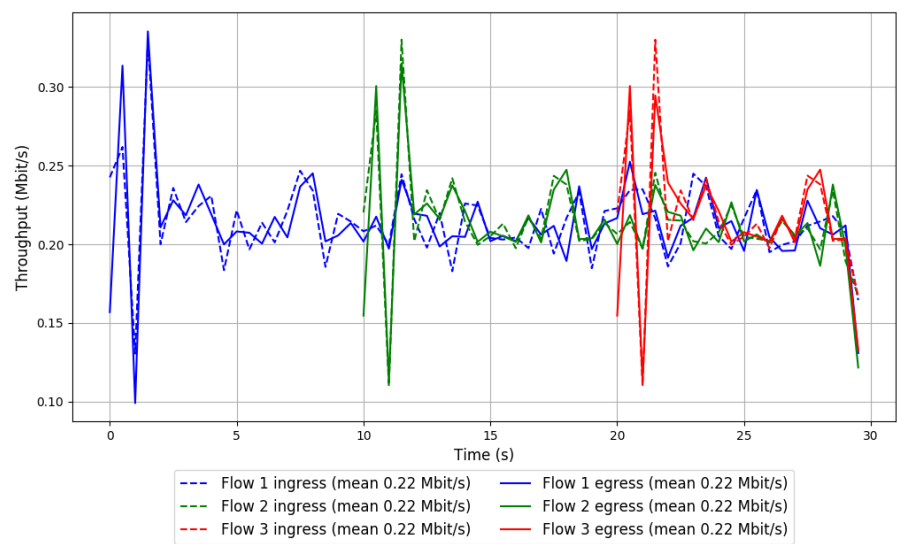
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.240 ms

Loss rate: 1.91%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-22 02:34:20

End at: 2017-09-22 02:34:50

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.251 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.678 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.803 ms

Loss rate: 1.25%

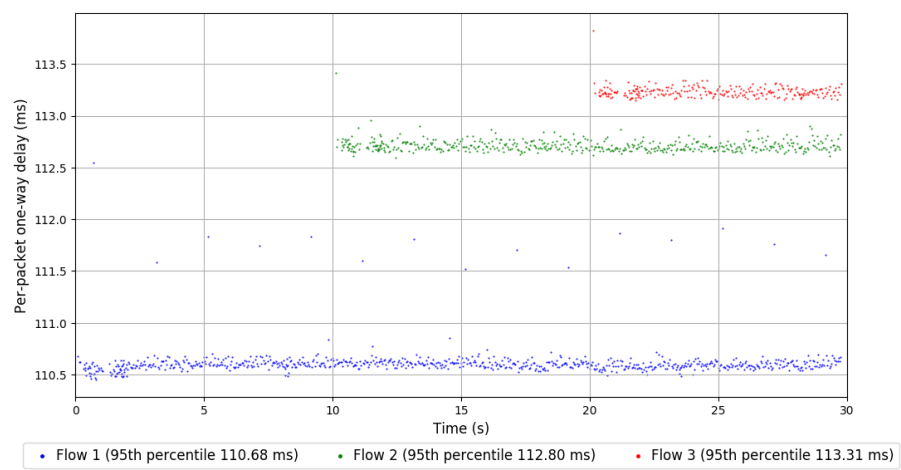
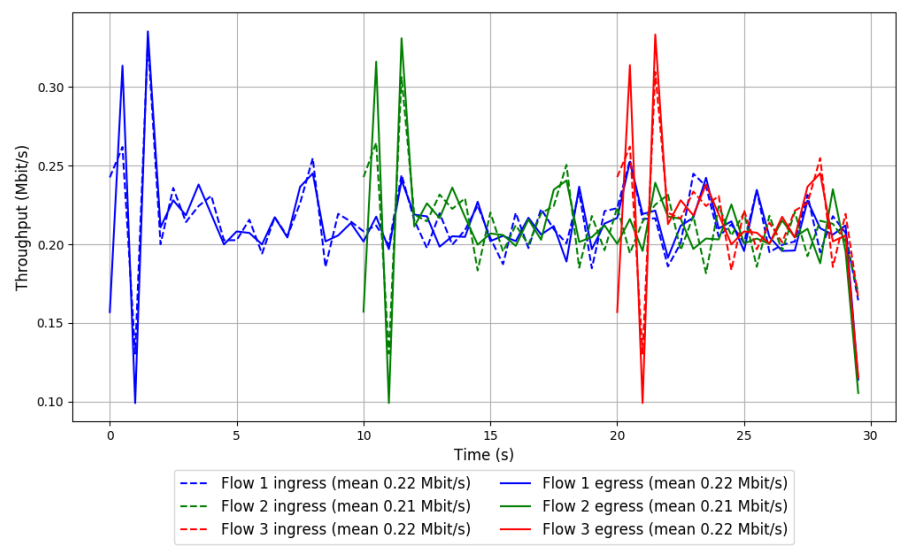
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.313 ms

Loss rate: 2.25%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-22 02:47:58

End at: 2017-09-22 02:48:28

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.299 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.834 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.335 ms

Loss rate: 1.25%

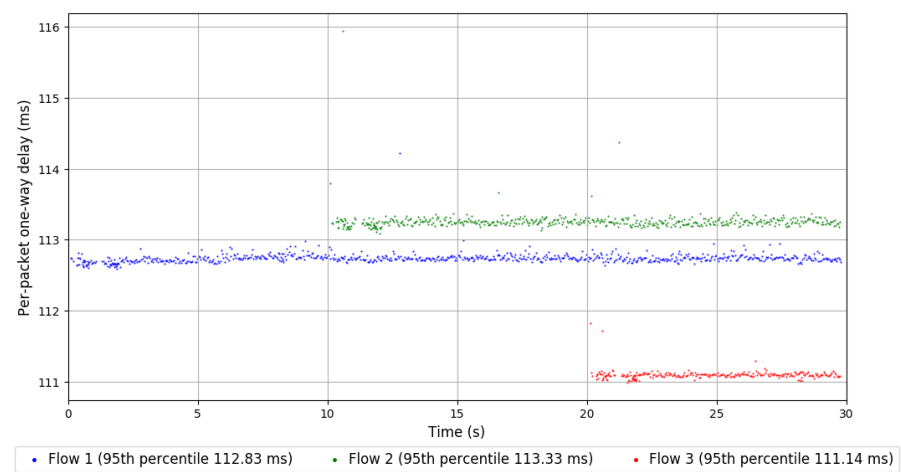
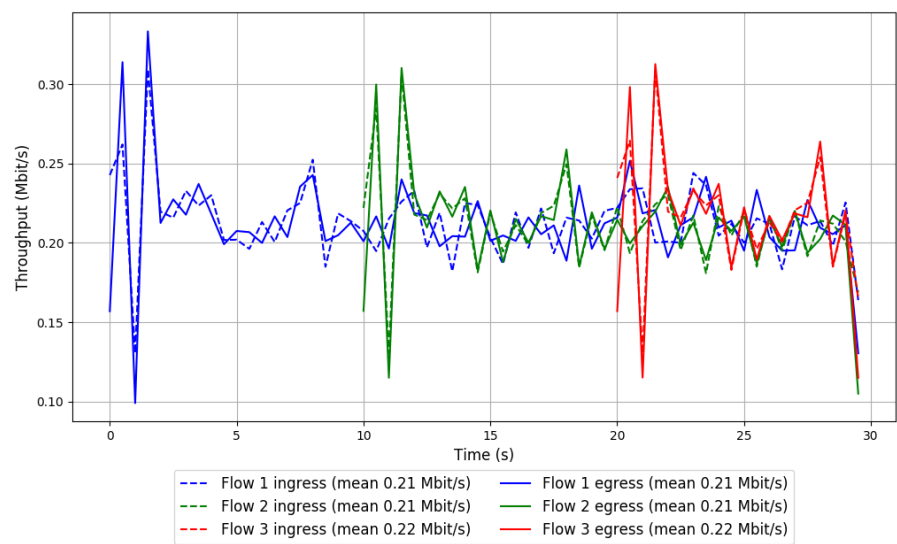
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.141 ms

Loss rate: 2.25%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-22 03:01:09

End at: 2017-09-22 03:01:39

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 112.911 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.716 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 112.011 ms

Loss rate: 0.98%

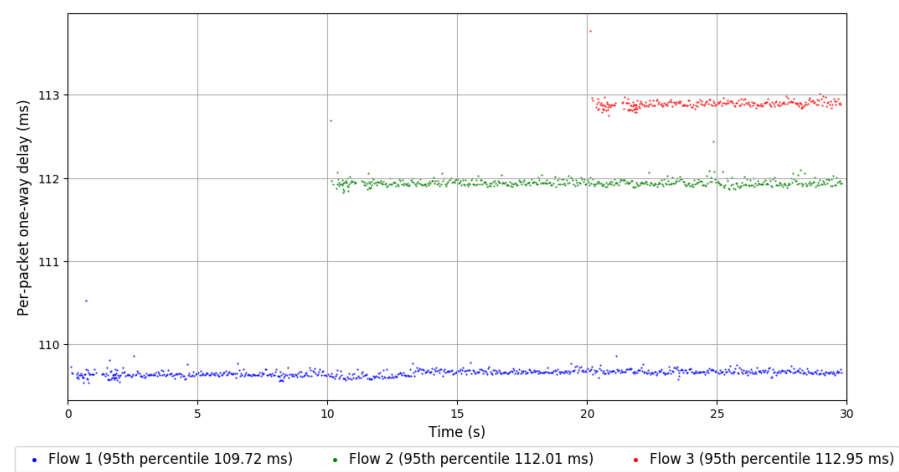
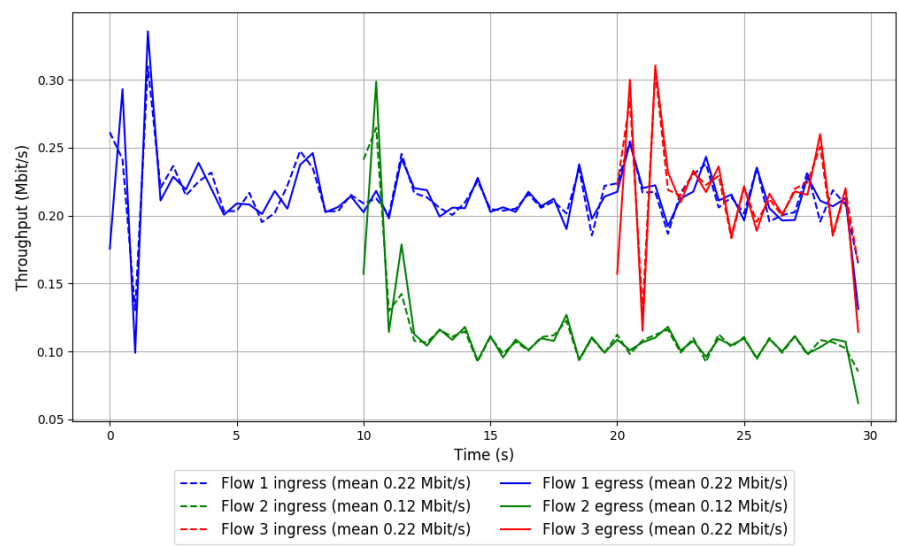
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.955 ms

Loss rate: 2.25%

Run 10: Report of SReAM — Data Link

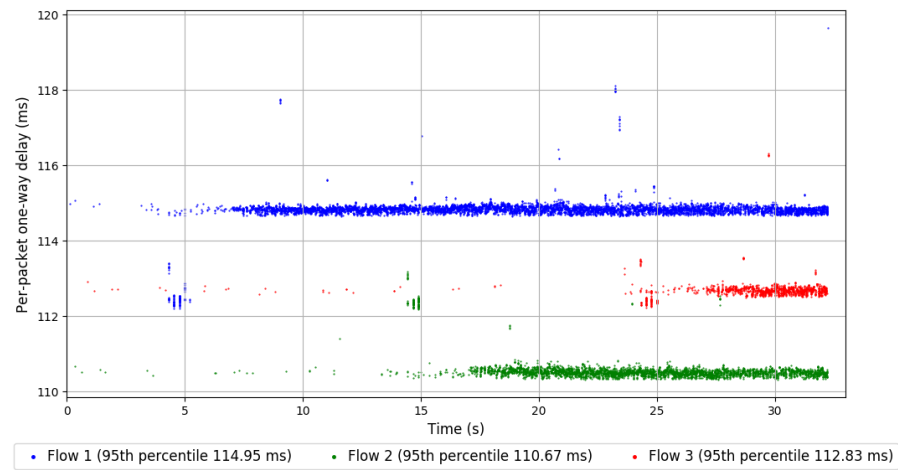
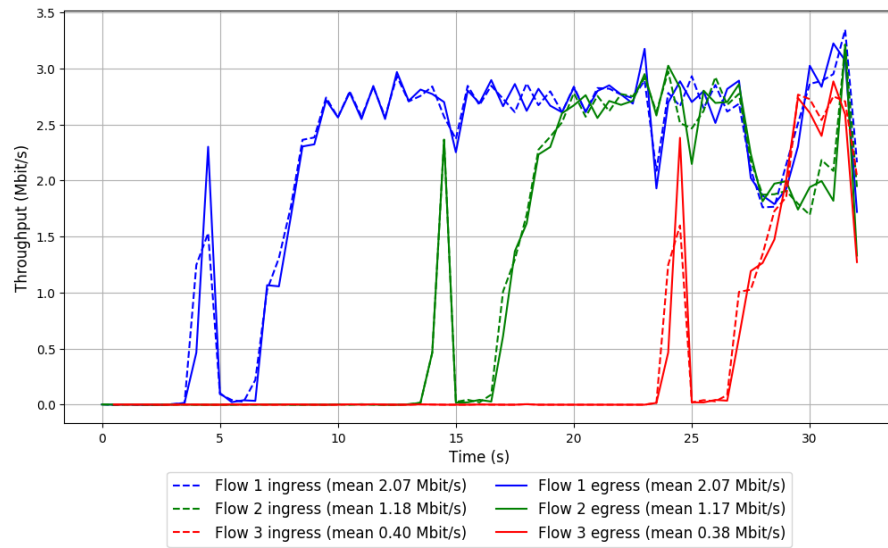


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-22 00:54:26
End at: 2017-09-22 00:54:56

# Below is generated by plot.py at 2017-09-22 05:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 114.929 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 114.953 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 110.673 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 112.835 ms
Loss rate: 5.95%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-22 01:07:53

End at: 2017-09-22 01:08:23

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 112.463 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 111.443 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 110.697 ms

Loss rate: 1.03%

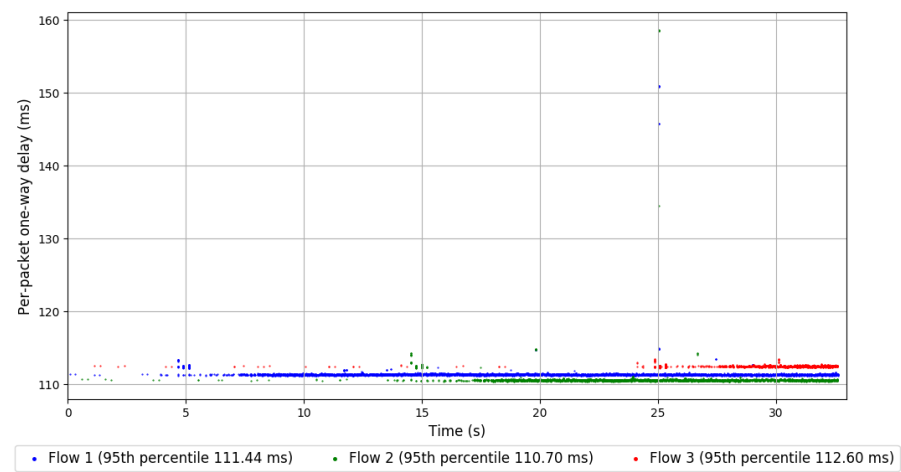
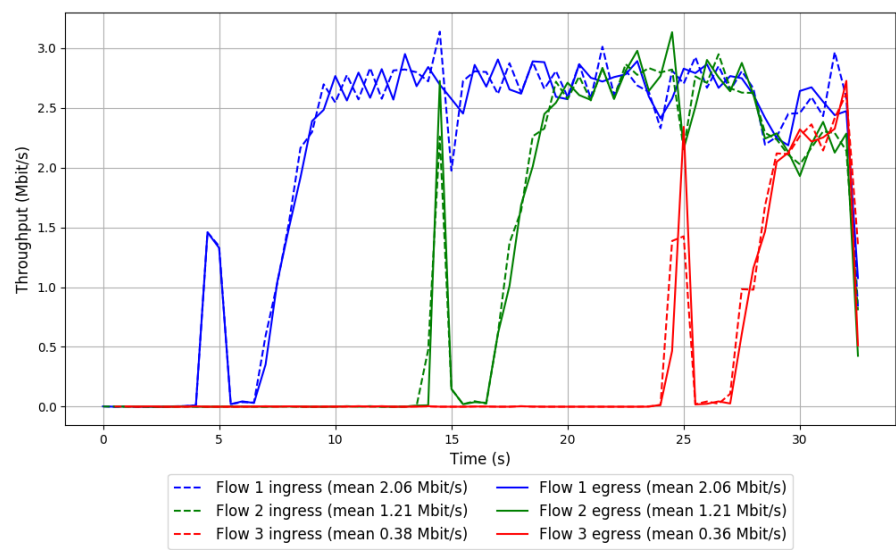
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 112.603 ms

Loss rate: 5.63%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-22 01:20:57

End at: 2017-09-22 01:21:27

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 112.964 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 112.991 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 112.296 ms

Loss rate: 1.49%

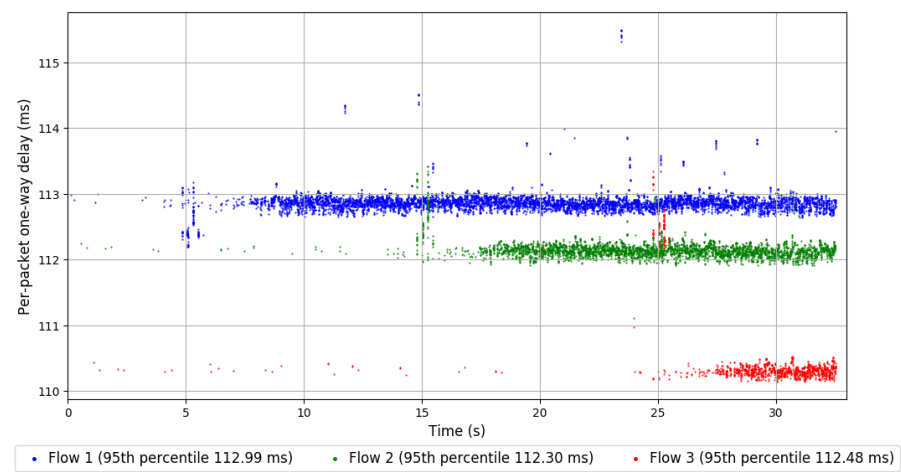
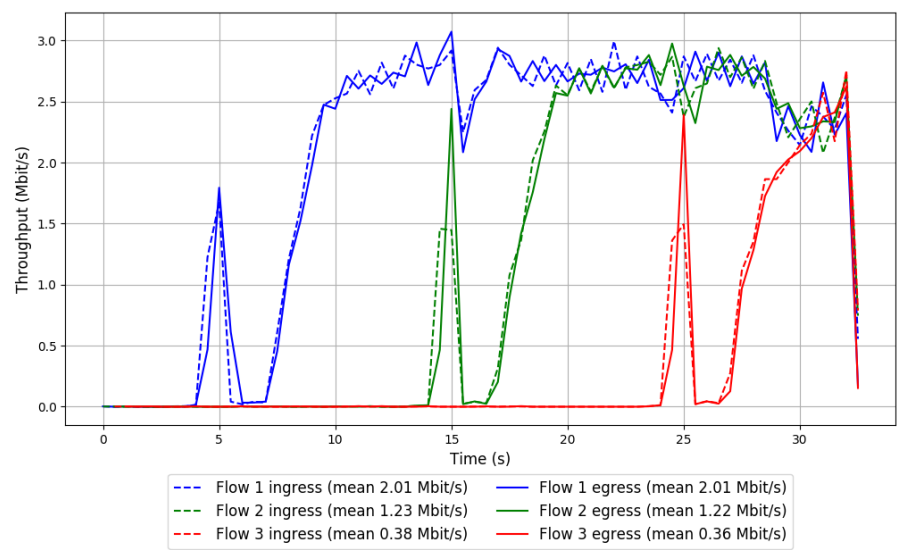
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 112.477 ms

Loss rate: 5.15%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-22 01:34:27

End at: 2017-09-22 01:34:57

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 113.648 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 111.986 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 113.726 ms

Loss rate: 1.51%

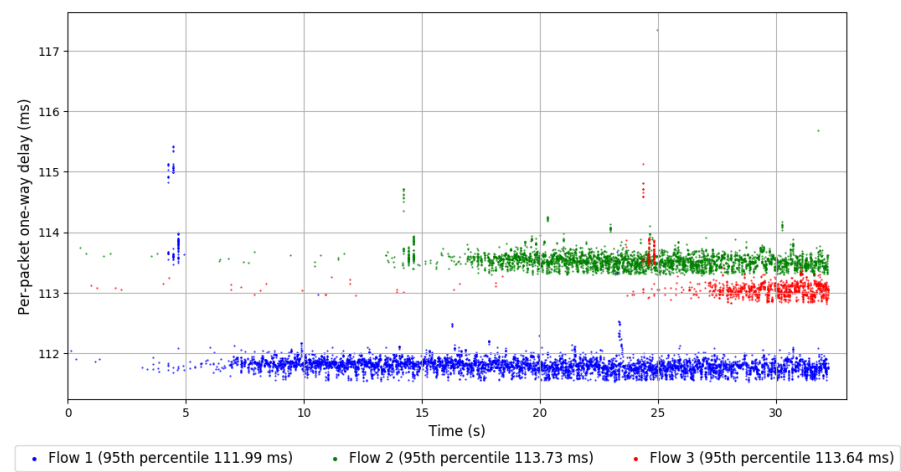
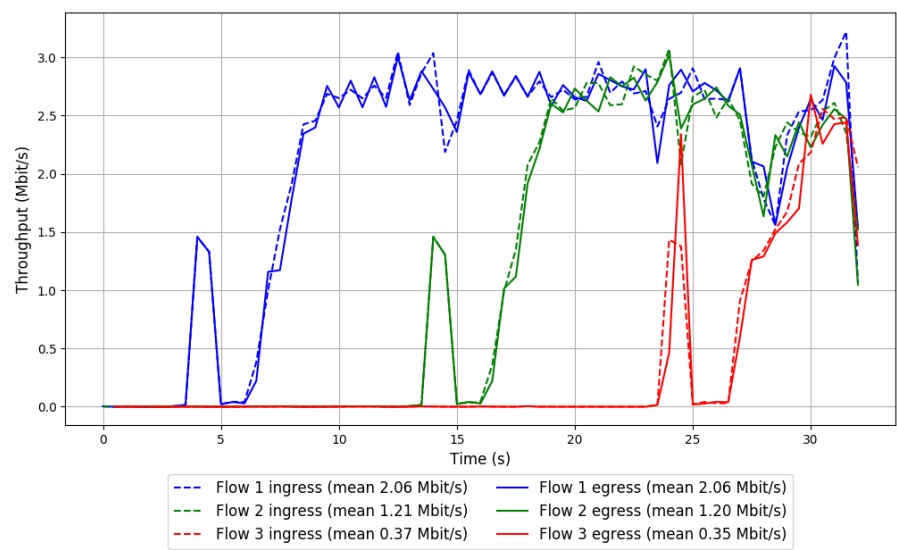
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 113.637 ms

Loss rate: 6.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-22 01:47:45

End at: 2017-09-22 01:48:15

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 112.702 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 112.696 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 1.19 Mbit/s

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

Loss rate: 1.48%

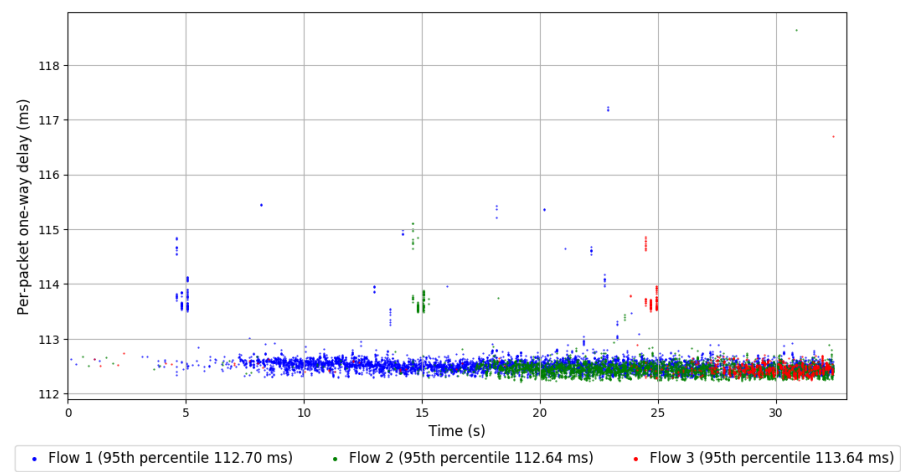
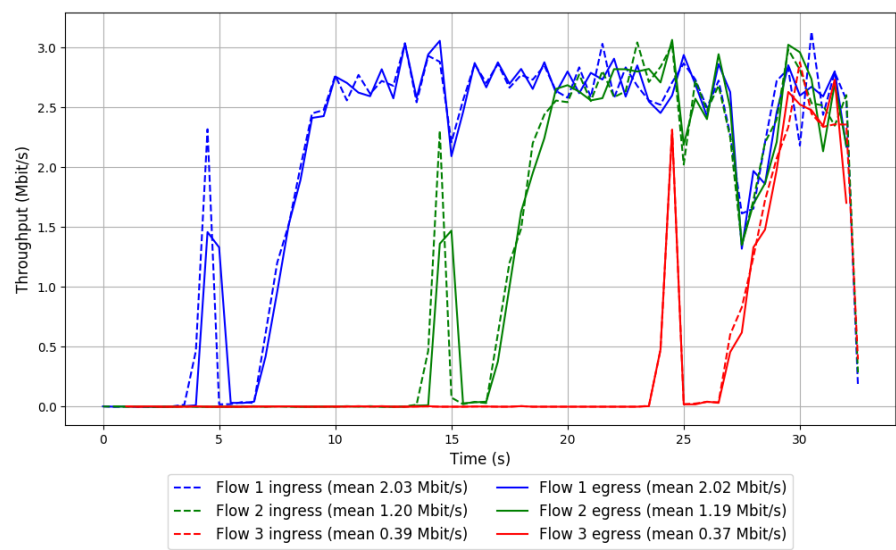
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 113.638 ms

Loss rate: 5.41%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-22 02:01:26

End at: 2017-09-22 02:01:56

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 112.998 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 112.939 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 111.620 ms

Loss rate: 1.33%

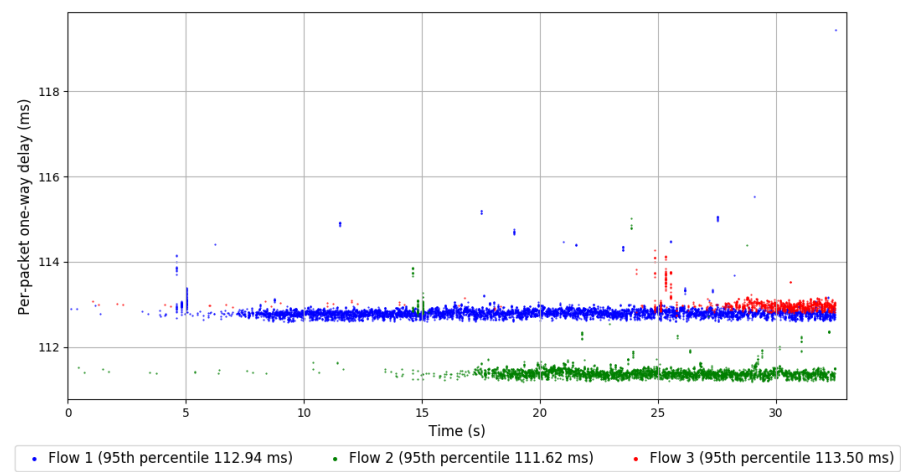
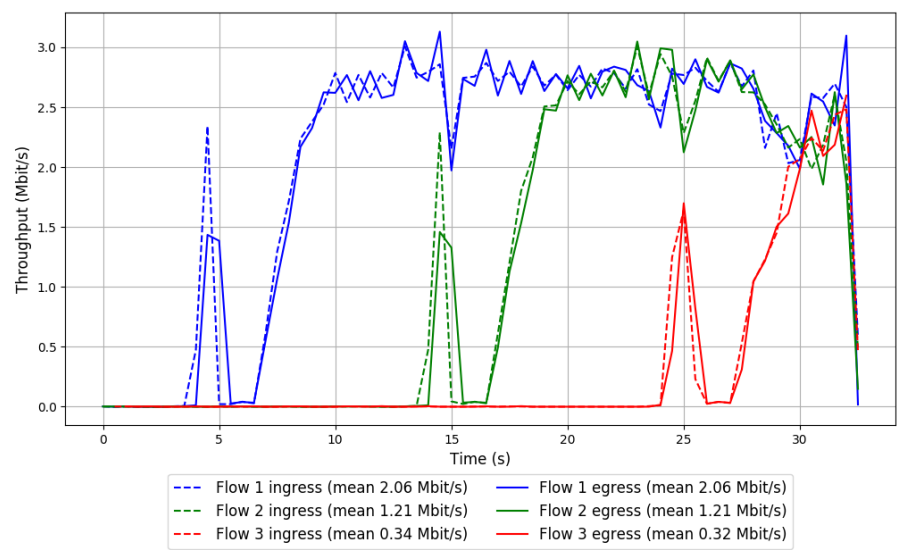
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 113.505 ms

Loss rate: 5.60%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-22 02:14:55

End at: 2017-09-22 02:15:25

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.49 Mbit/s

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

Loss rate: 1.49%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 111.613 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 112.712 ms

Loss rate: 1.54%

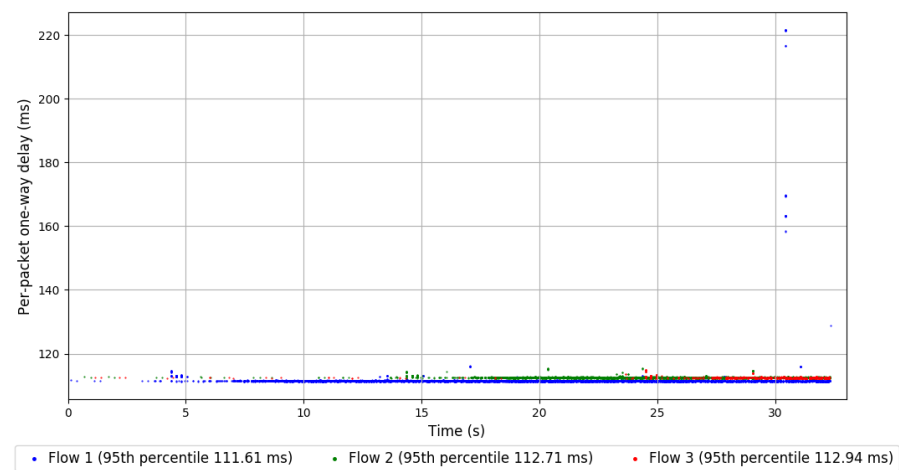
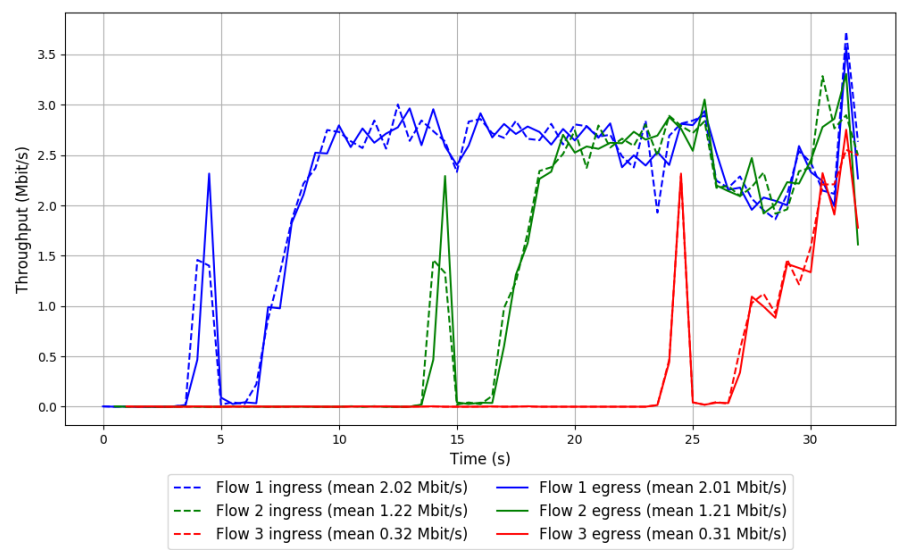
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 112.945 ms

Loss rate: 5.80%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-22 02:28:05

End at: 2017-09-22 02:28:35

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 113.204 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 111.608 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 113.256 ms

Loss rate: 1.53%

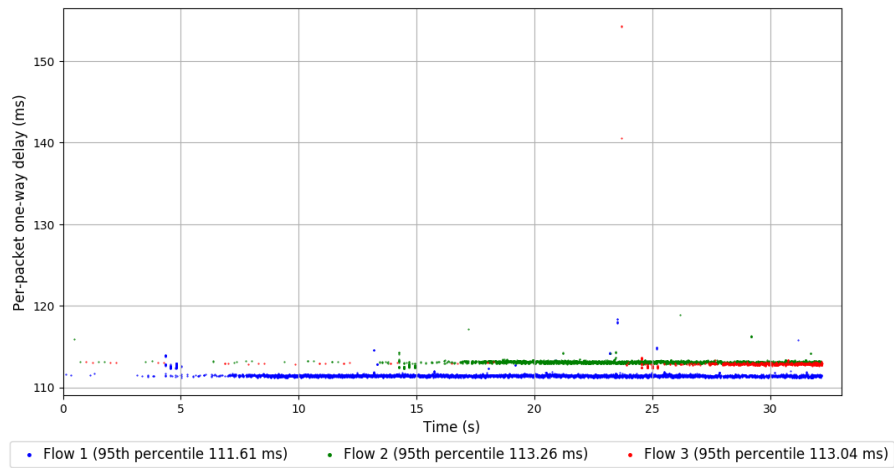
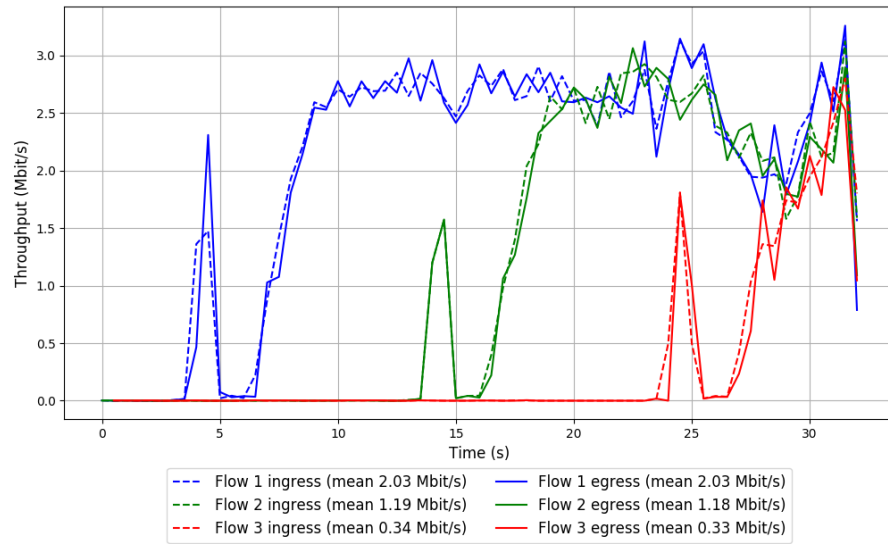
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 113.040 ms

Loss rate: 6.21%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-22 02:41:22

End at: 2017-09-22 02:41:52

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 113.161 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 112.562 ms

Loss rate: 1.44%

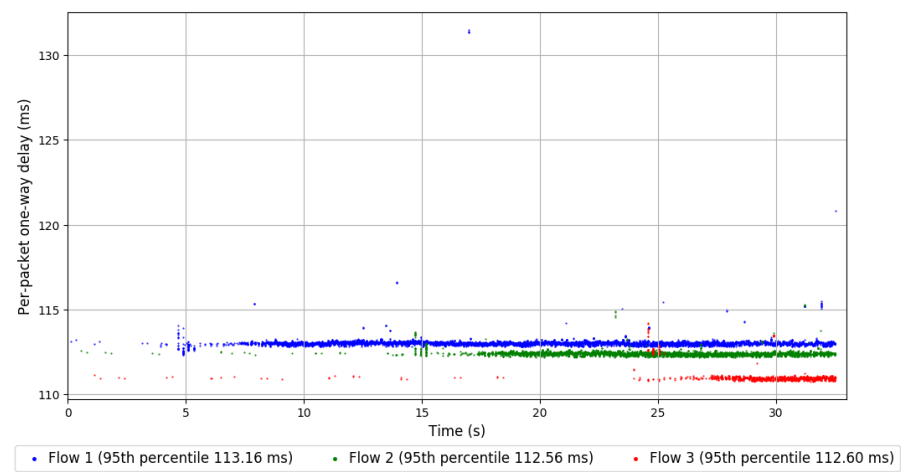
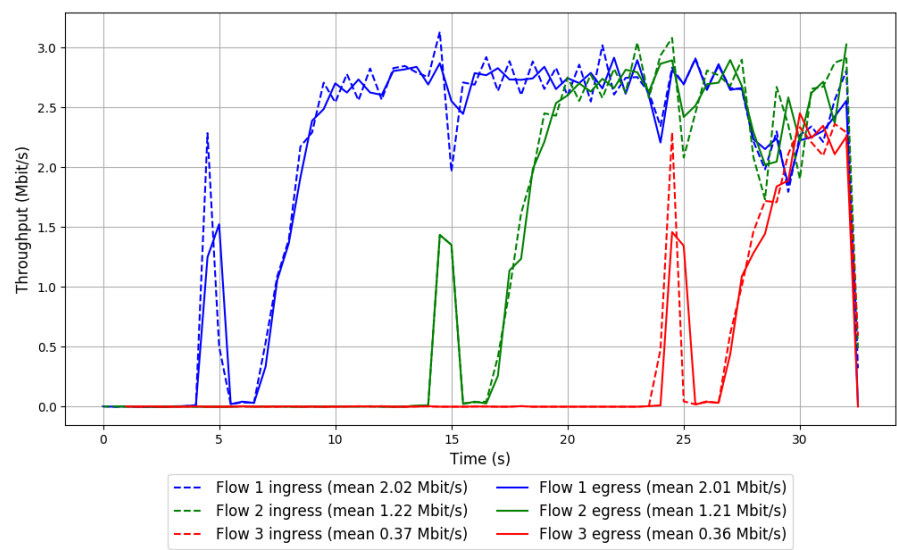
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 112.603 ms

Loss rate: 4.75%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-22 02:55:06

End at: 2017-09-22 02:55:36

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 113.889 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 113.899 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 110.433 ms

Loss rate: 1.31%

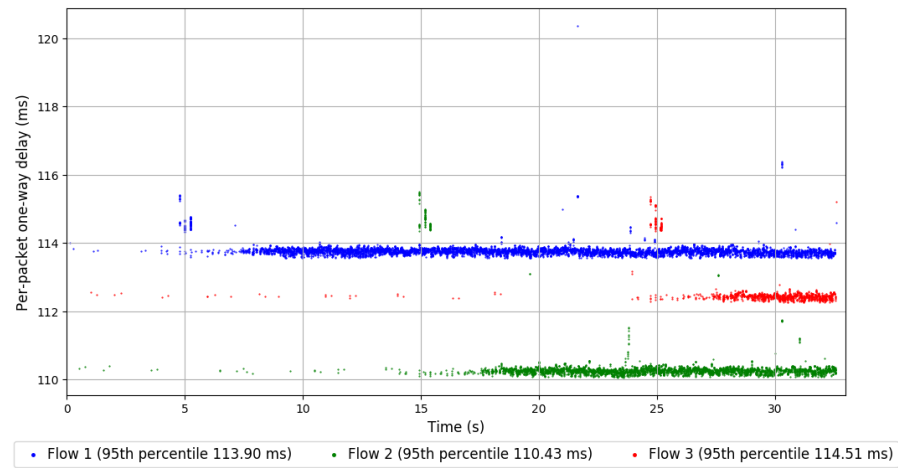
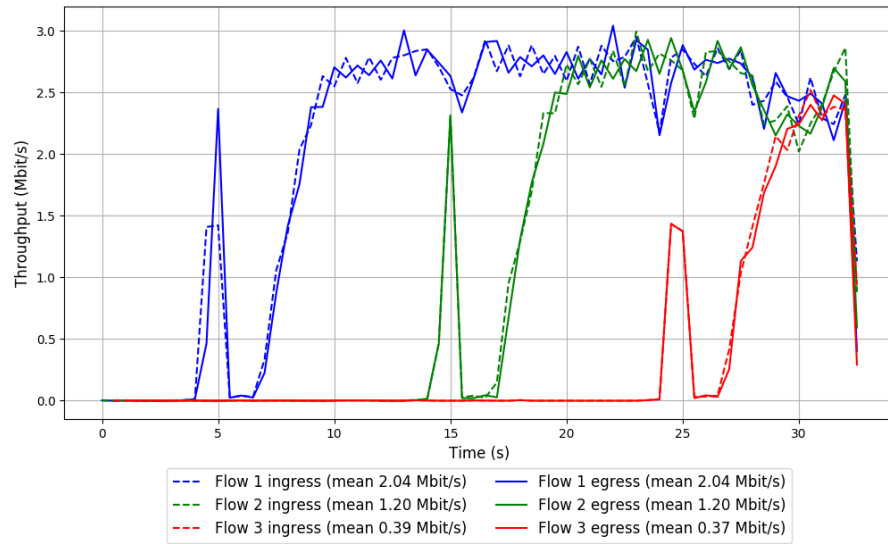
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 114.511 ms

Loss rate: 4.58%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-22 00:55:13

End at: 2017-09-22 00:55:43

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 113.322 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 113.362 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 113.305 ms

Loss rate: 2.40%

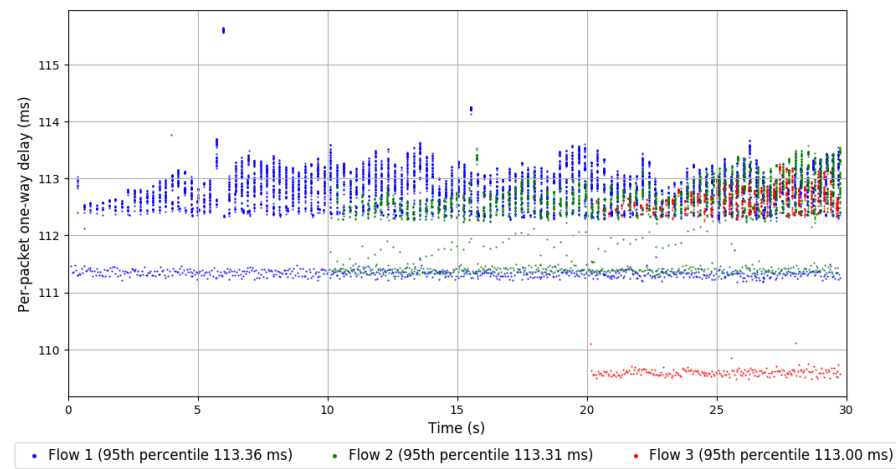
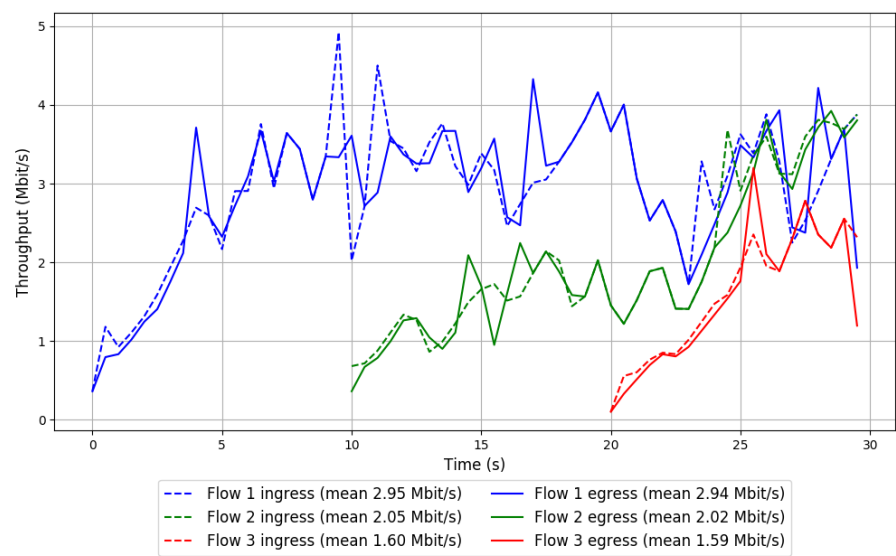
-- Flow 3:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 113.005 ms

Loss rate: 3.56%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-22 01:08:40

End at: 2017-09-22 01:09:10

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 113.247 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 113.351 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 112.905 ms

Loss rate: 2.61%

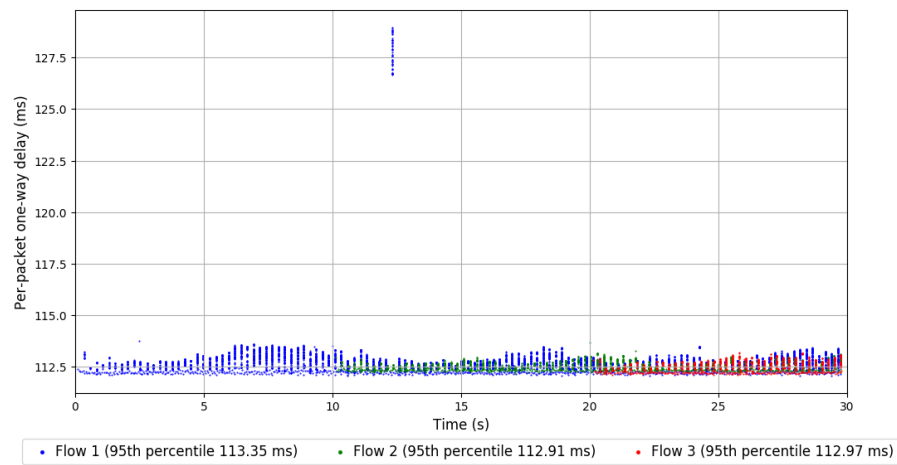
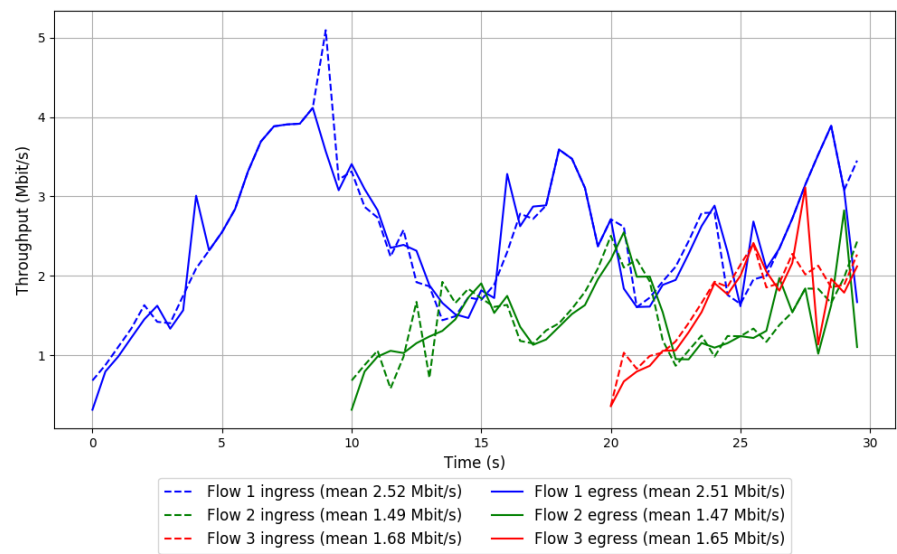
-- Flow 3:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 112.968 ms

Loss rate: 3.44%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-22 01:21:44

End at: 2017-09-22 01:22:14

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 113.143 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 113.159 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 113.148 ms

Loss rate: 1.23%

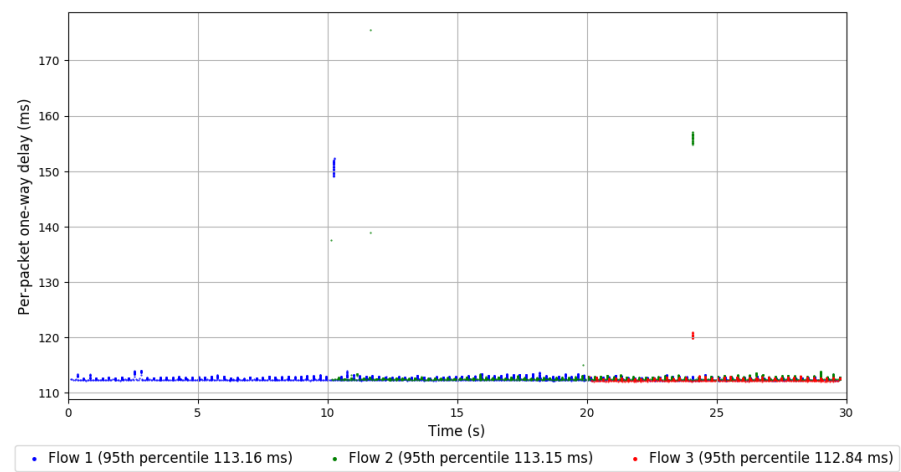
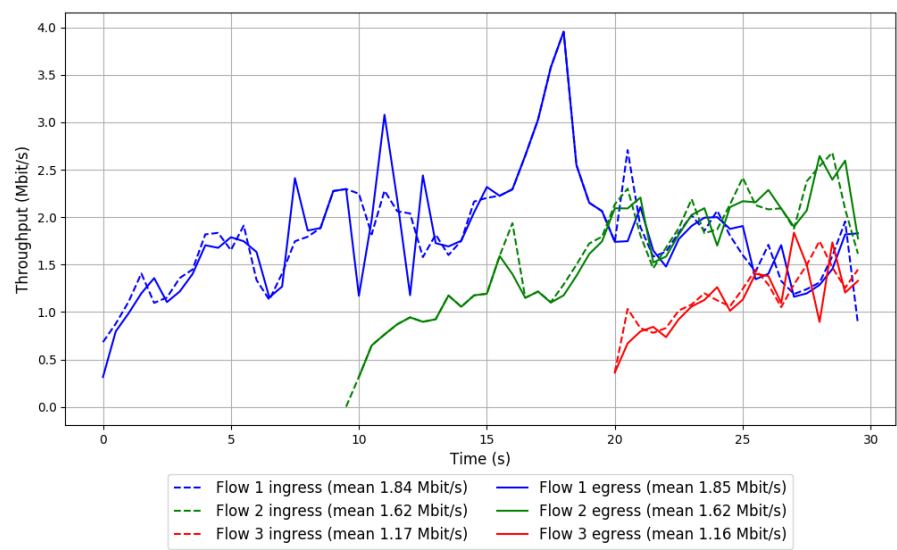
-- Flow 3:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 112.844 ms

Loss rate: 3.30%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-22 01:35:14

End at: 2017-09-22 01:35:44

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 115.650 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 1.63 Mbit/s

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

Loss rate: 1.49%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 115.797 ms

Loss rate: 2.00%

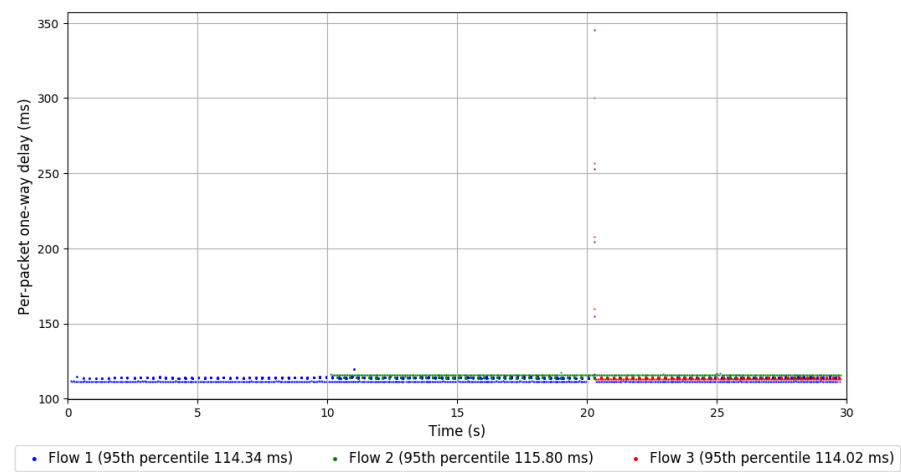
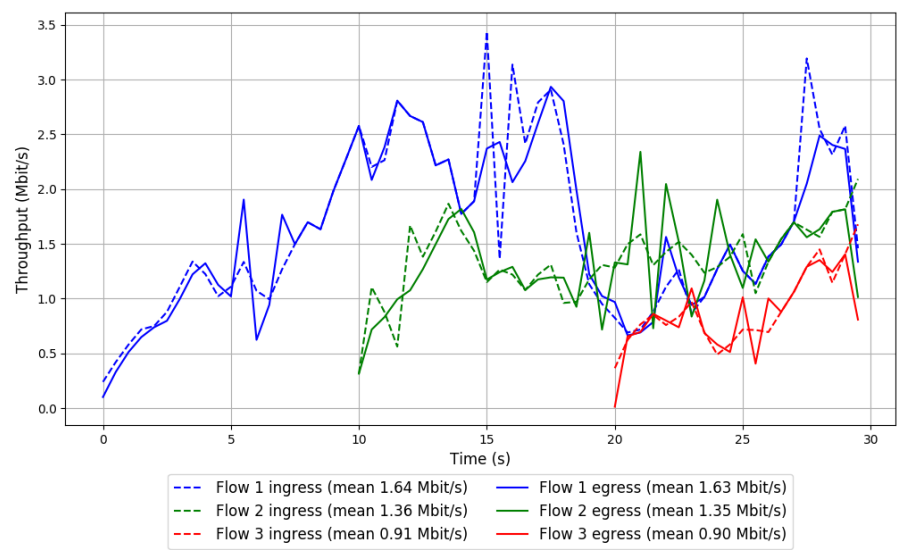
-- Flow 3:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 114.018 ms

Loss rate: 4.87%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-22 01:48:32

End at: 2017-09-22 01:49:02

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 114.610 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 114.656 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 114.508 ms

Loss rate: 2.40%

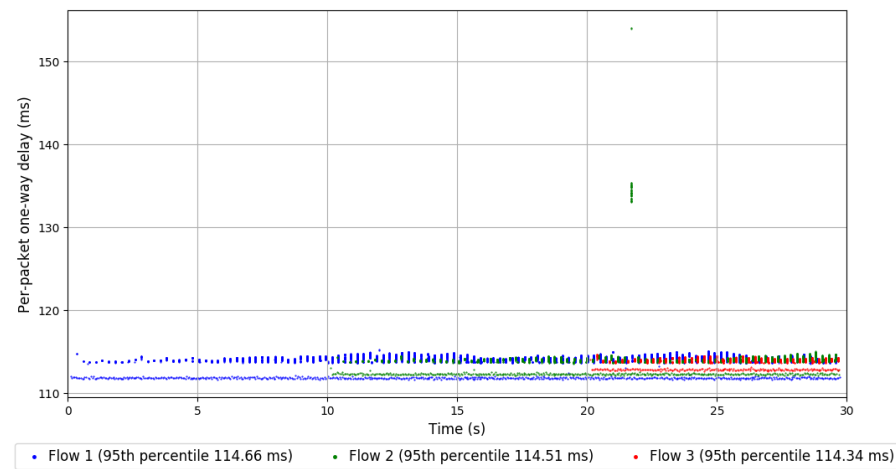
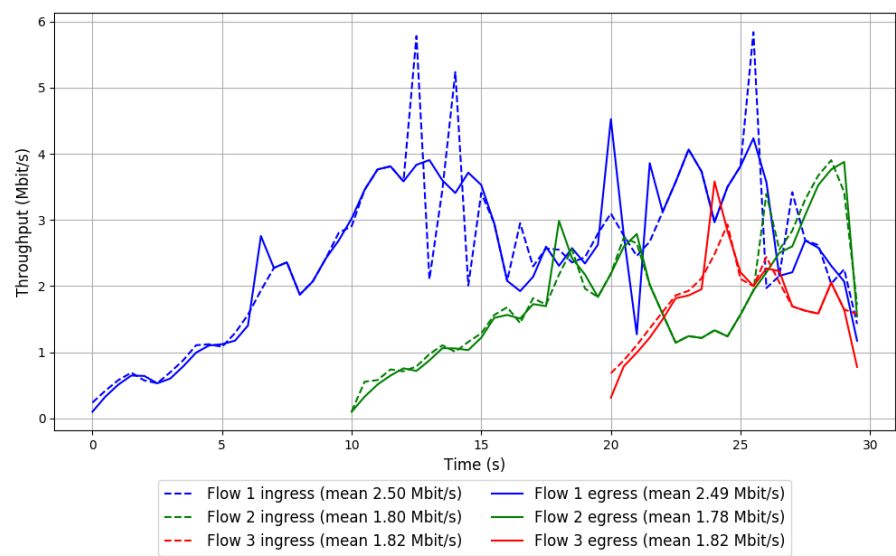
-- Flow 3:

Average throughput: 1.82 Mbit/s

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

Loss rate: 2.25%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-22 02:02:13

End at: 2017-09-22 02:02:43

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 113.611 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 113.619 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 113.603 ms

Loss rate: 1.72%

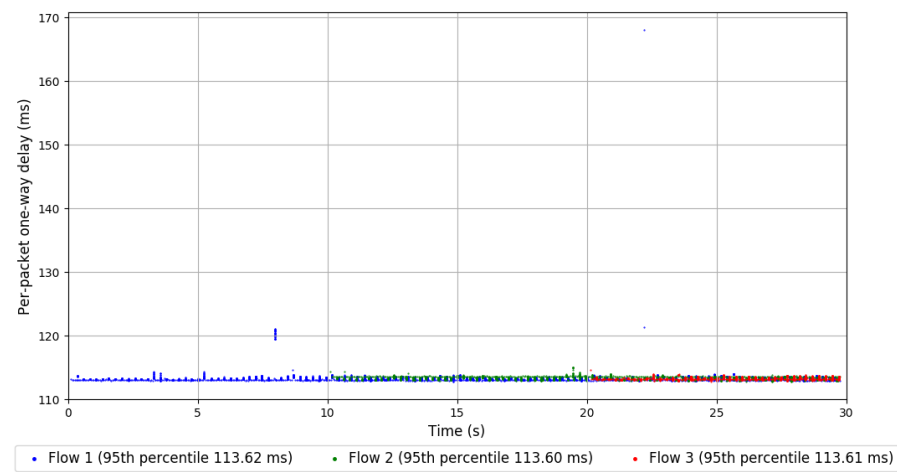
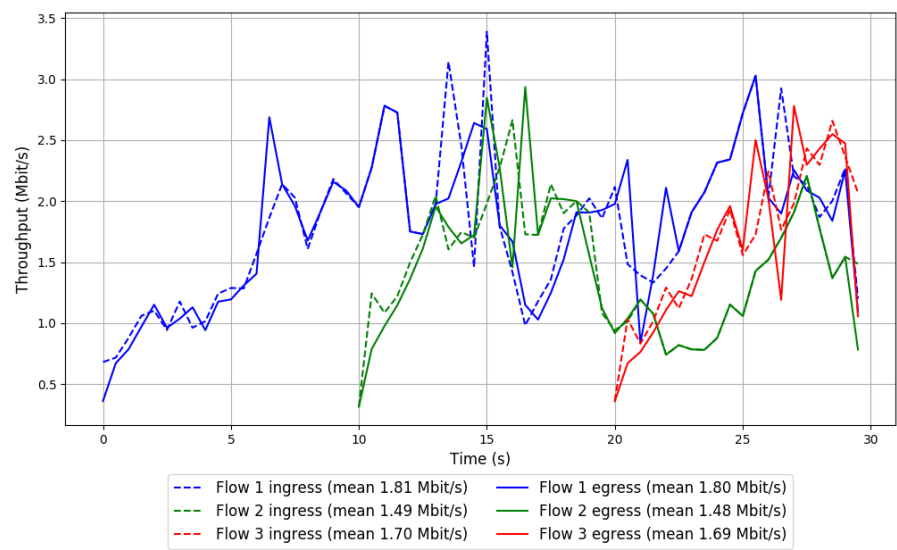
-- Flow 3:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 113.615 ms

Loss rate: 3.04%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-22 02:15:42

End at: 2017-09-22 02:16:12

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 113.898 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 113.917 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 113.828 ms

Loss rate: 2.42%

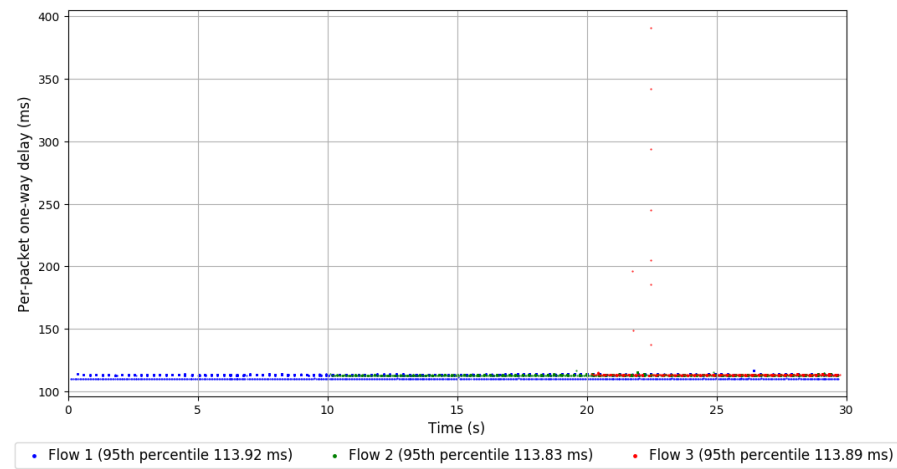
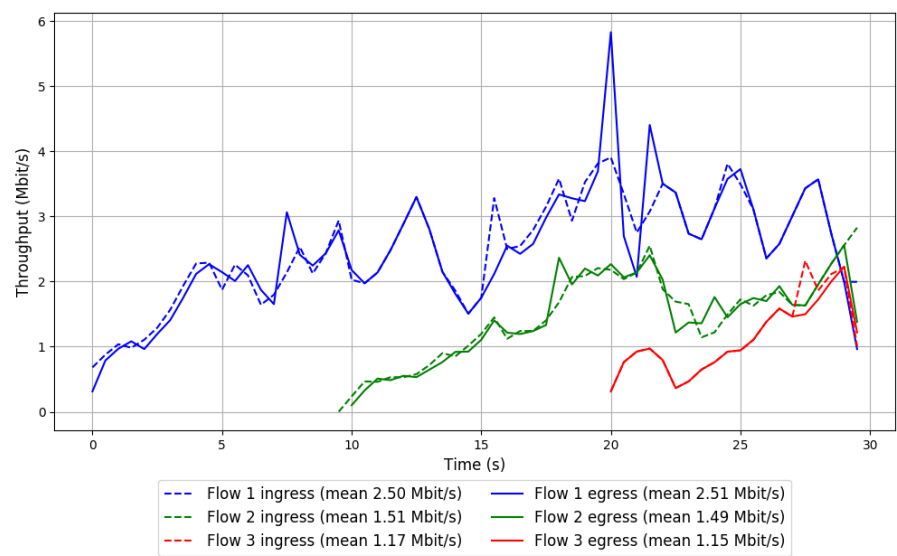
-- Flow 3:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 113.888 ms

Loss rate: 3.73%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-22 02:28:52

End at: 2017-09-22 02:29:22

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 113.434 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 113.412 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 113.134 ms

Loss rate: 2.64%

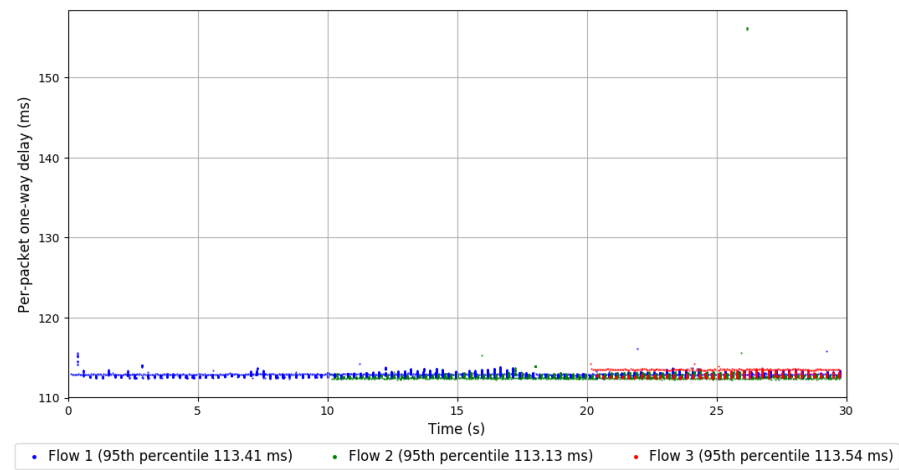
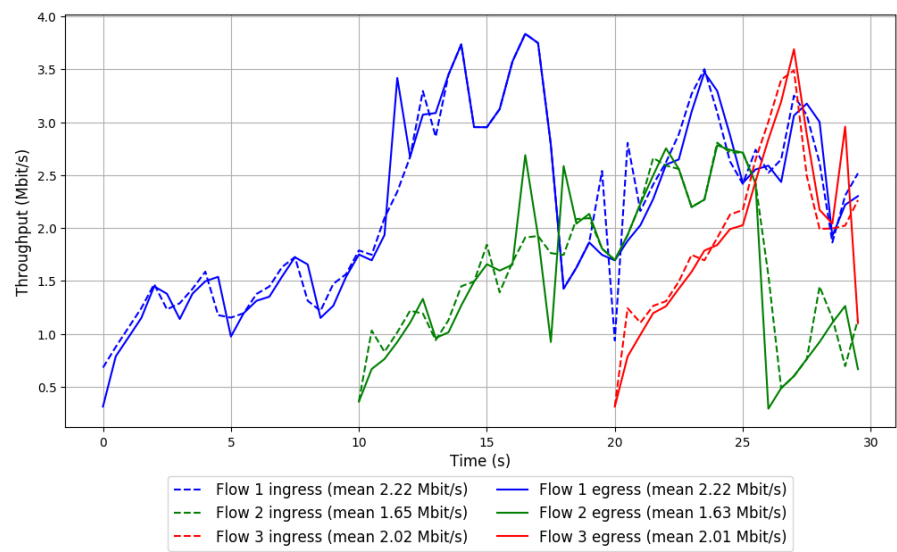
-- Flow 3:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 113.536 ms

Loss rate: 2.93%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-22 02:42:09

End at: 2017-09-22 02:42:39

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 113.597 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 113.629 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 113.564 ms

Loss rate: 1.46%

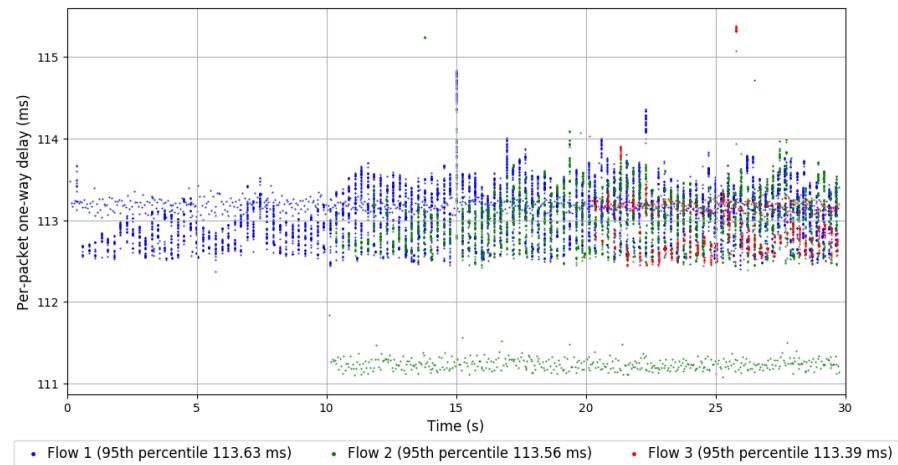
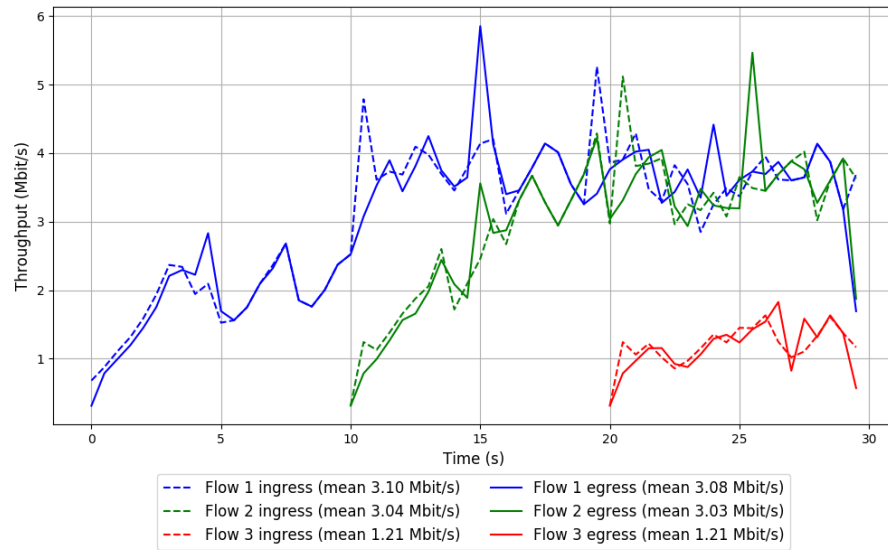
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 113.392 ms

Loss rate: 2.51%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-22 02:55:53

End at: 2017-09-22 02:56:23

Below is generated by plot.py at 2017-09-22 05:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 115.081 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 115.038 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 1.51 Mbit/s

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

Loss rate: 1.68%

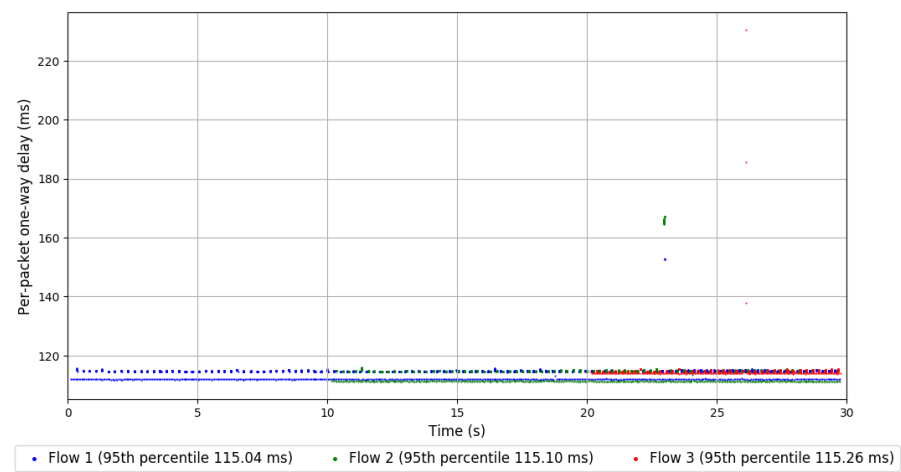
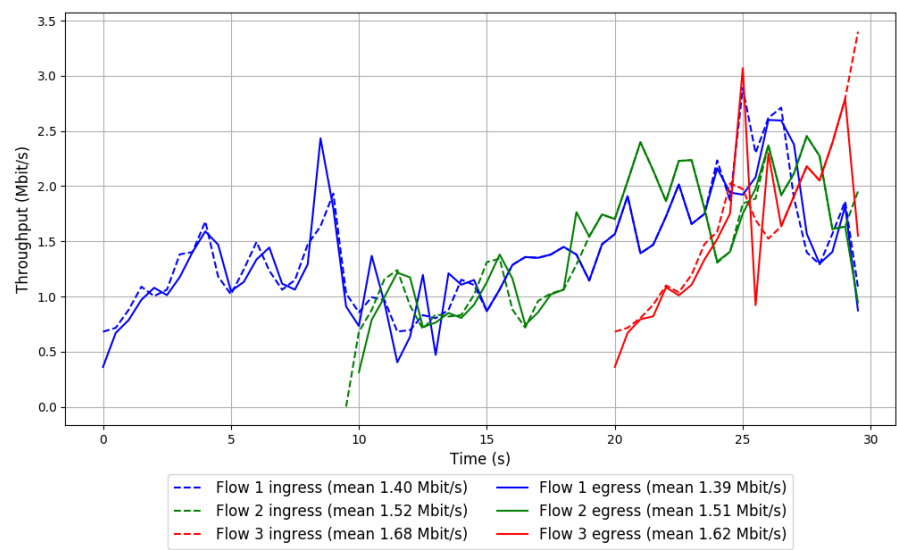
-- Flow 3:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 115.257 ms

Loss rate: 5.60%

Run 10: Report of Sprout — Data Link

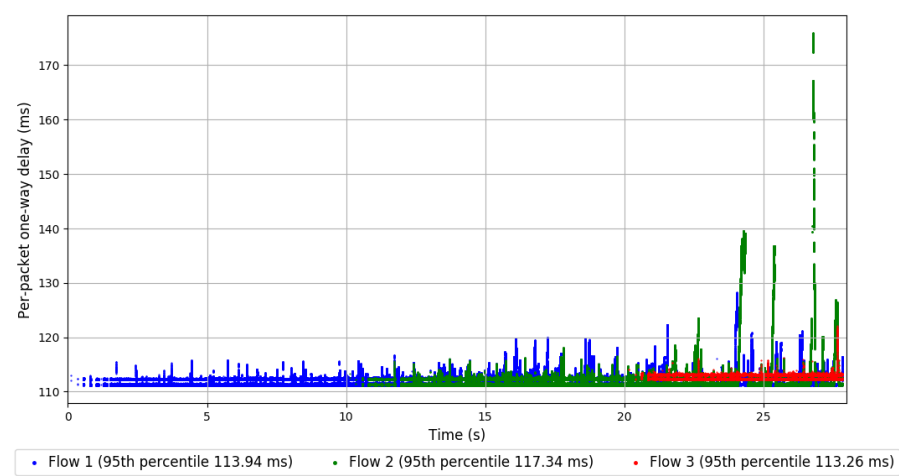
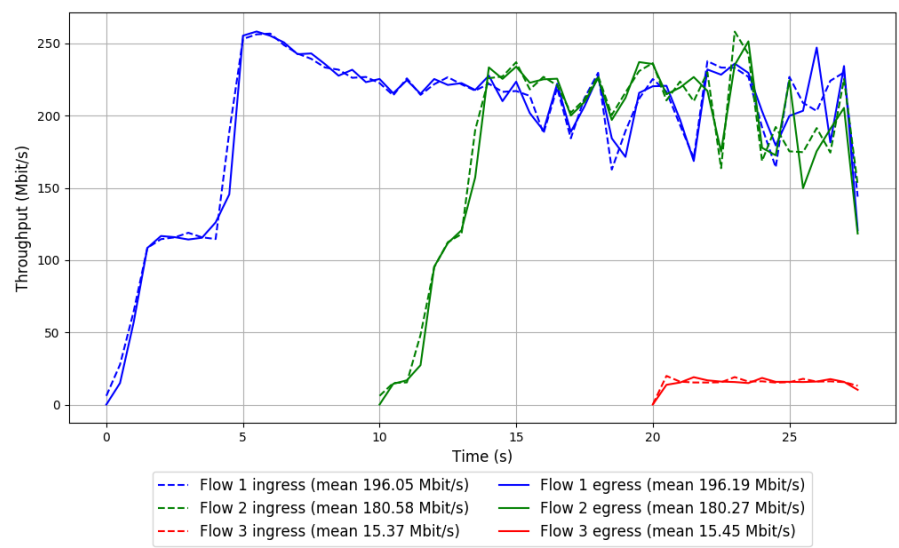


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-22 00:57:55
End at: 2017-09-22 00:58:25

# Below is generated by plot.py at 2017-09-22 05:52:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.58 Mbit/s
95th percentile per-packet one-way delay: 114.348 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 113.939 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 180.27 Mbit/s
95th percentile per-packet one-way delay: 117.342 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 113.256 ms
Loss rate: 2.32%
```


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

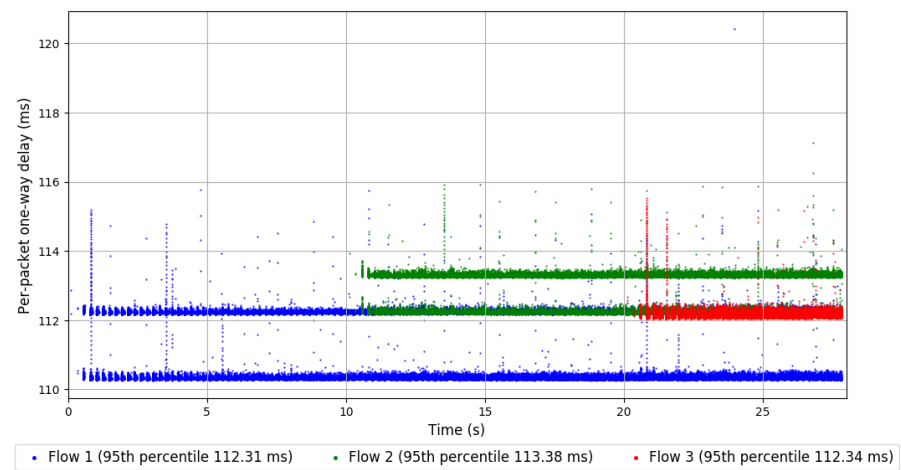
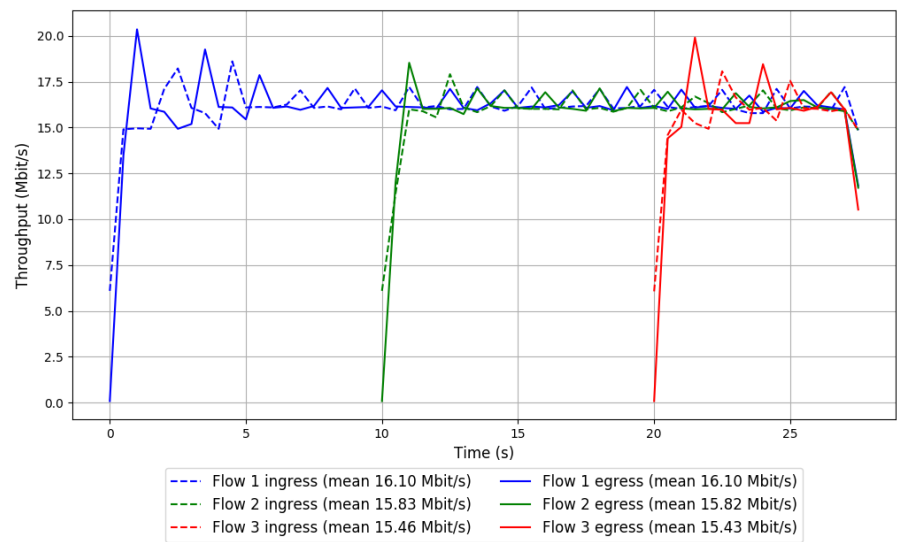


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-22 01:11:22
End at: 2017-09-22 01:11:52

# Below is generated by plot.py at 2017-09-22 05:52:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 113.320 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 16.10 Mbit/s
95th percentile per-packet one-way delay: 112.306 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 113.381 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 15.43 Mbit/s
95th percentile per-packet one-way delay: 112.344 ms
Loss rate: 3.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-22 01:24:28

End at: 2017-09-22 01:24:58

Below is generated by plot.py at 2017-09-22 05:52:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.09 Mbit/s

95th percentile per-packet one-way delay: 113.673 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 207.76 Mbit/s

95th percentile per-packet one-way delay: 113.673 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 113.675 ms

Loss rate: 1.30%

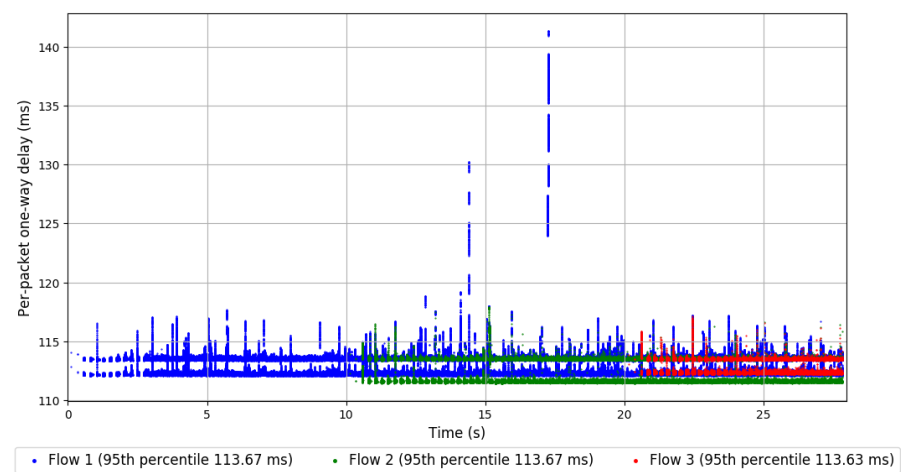
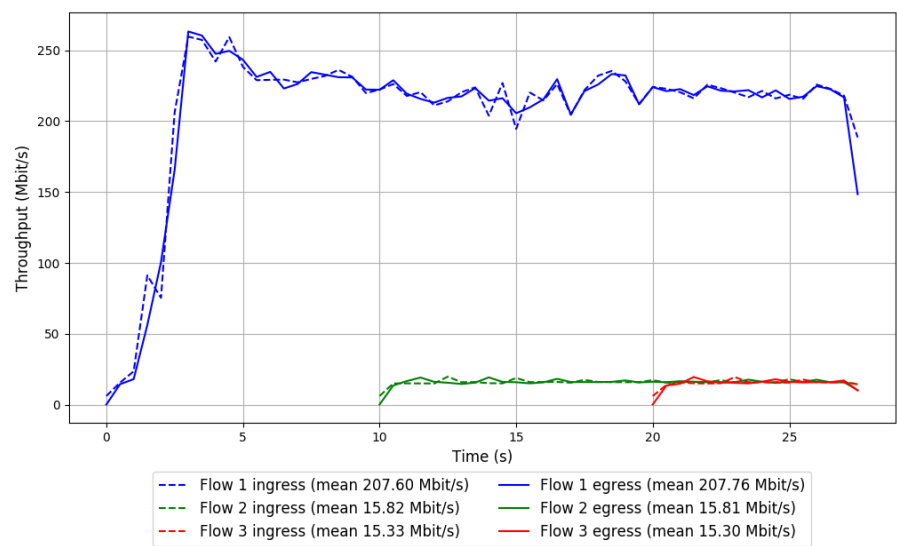
-- Flow 3:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 113.634 ms

Loss rate: 3.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-22 01:37:56

End at: 2017-09-22 01:38:26

Below is generated by plot.py at 2017-09-22 05:52:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.70 Mbit/s

95th percentile per-packet one-way delay: 114.129 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 113.634 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 201.81 Mbit/s

95th percentile per-packet one-way delay: 114.237 ms

Loss rate: 1.37%

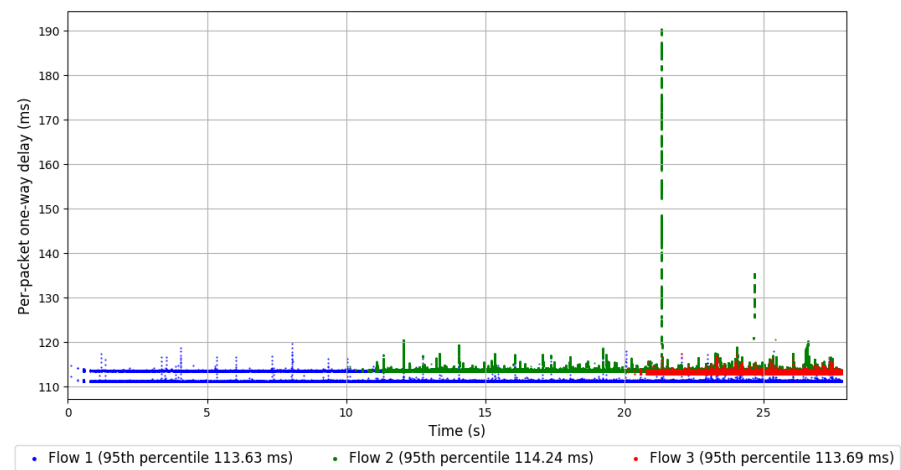
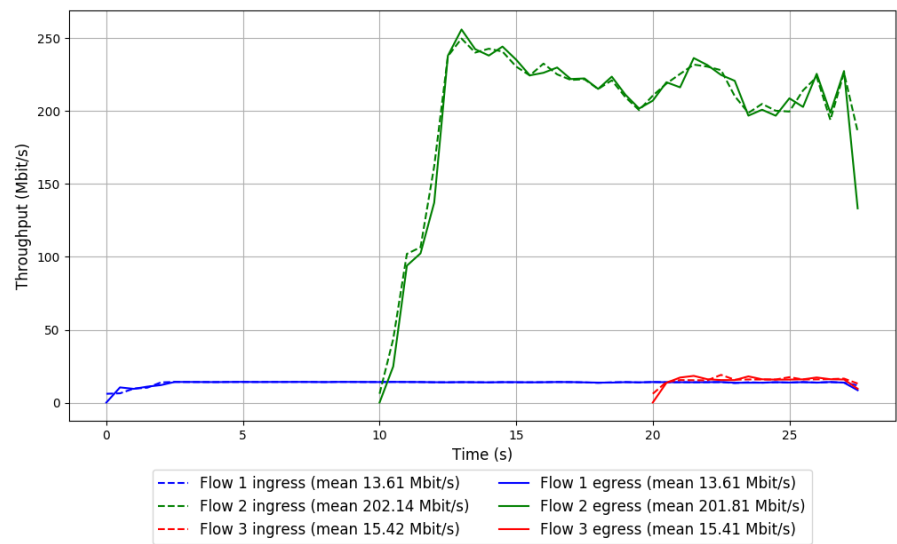
-- Flow 3:

Average throughput: 15.41 Mbit/s

95th percentile per-packet one-way delay: 113.686 ms

Loss rate: 2.98%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-22 01:51:14

End at: 2017-09-22 01:51:44

Below is generated by plot.py at 2017-09-22 05:52:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.83 Mbit/s

95th percentile per-packet one-way delay: 113.812 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 199.55 Mbit/s

95th percentile per-packet one-way delay: 113.817 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 15.95 Mbit/s

95th percentile per-packet one-way delay: 113.789 ms

Loss rate: 1.29%

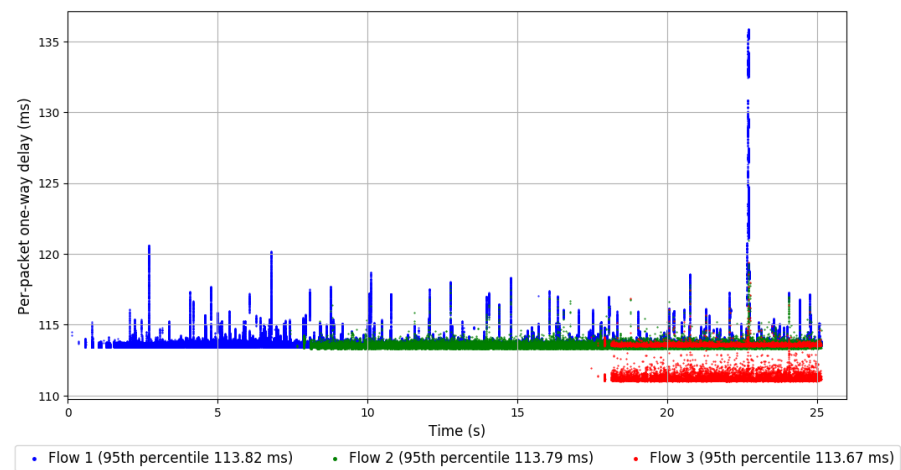
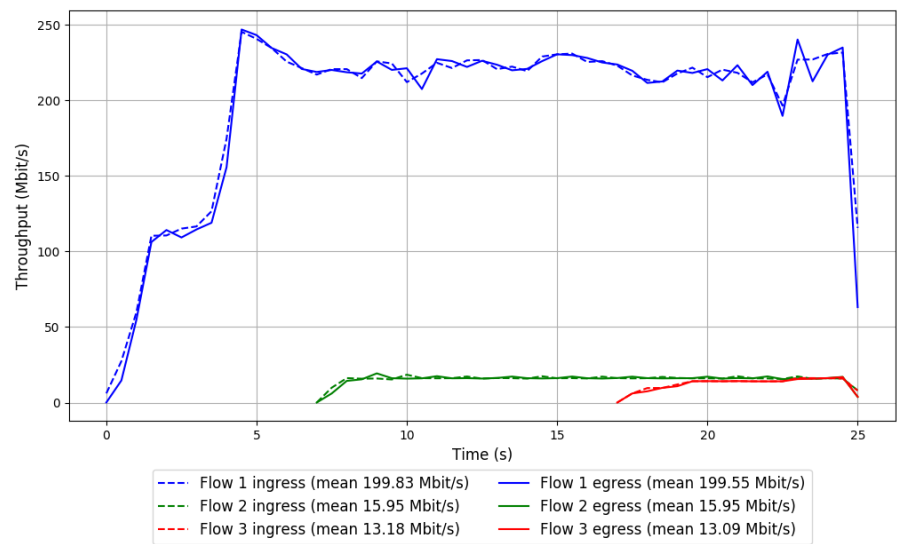
-- Flow 3:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 113.668 ms

Loss rate: 3.49%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-22 02:04:55

End at: 2017-09-22 02:05:25

Below is generated by plot.py at 2017-09-22 05:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.21 Mbit/s

95th percentile per-packet one-way delay: 113.622 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 213.23 Mbit/s

95th percentile per-packet one-way delay: 113.832 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 191.72 Mbit/s

95th percentile per-packet one-way delay: 113.160 ms

Loss rate: 1.54%

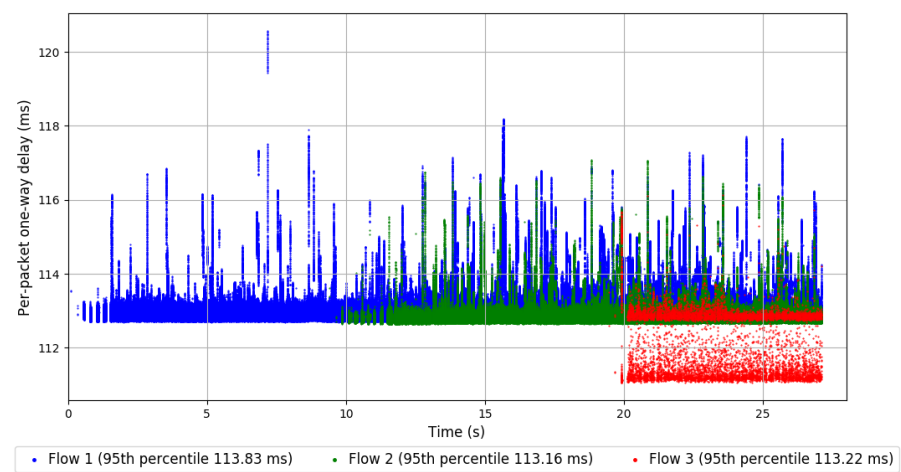
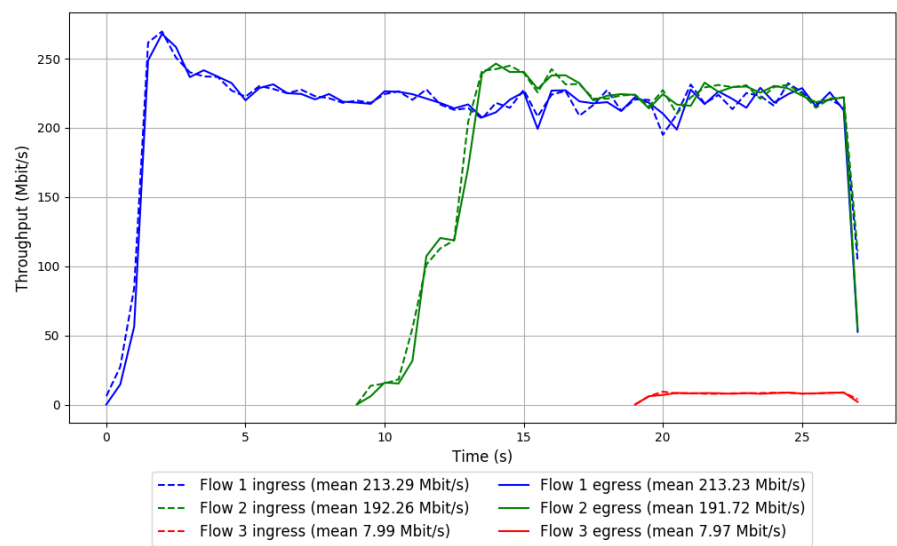
-- Flow 3:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 113.218 ms

Loss rate: 3.06%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-22 02:18:24

End at: 2017-09-22 02:18:54

Below is generated by plot.py at 2017-09-22 05:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.26 Mbit/s

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

Loss rate: 1.30%

-- Flow 1:

Average throughput: 15.95 Mbit/s

95th percentile per-packet one-way delay: 112.903 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 114.332 ms

Loss rate: 1.29%

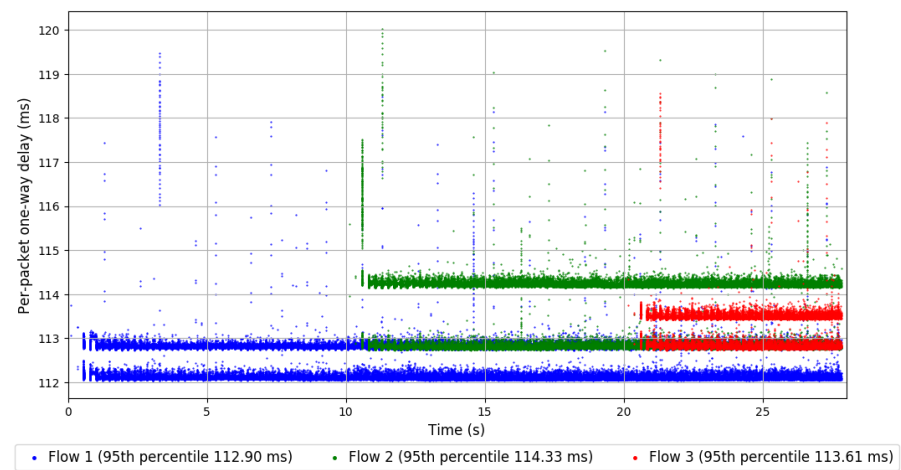
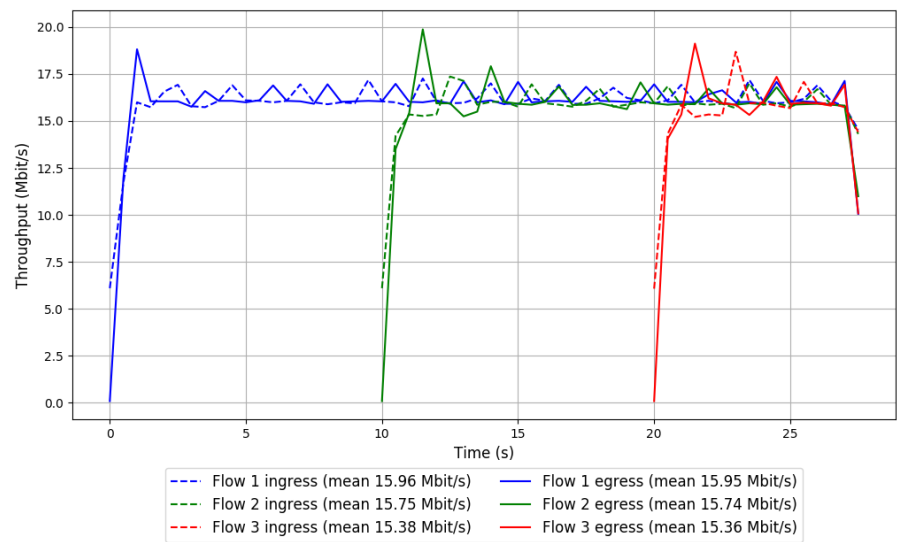
-- Flow 3:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 113.610 ms

Loss rate: 3.02%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-22 02:31:35

End at: 2017-09-22 02:32:05

Below is generated by plot.py at 2017-09-22 05:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.07 Mbit/s

95th percentile per-packet one-way delay: 113.462 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 112.841 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 214.63 Mbit/s

95th percentile per-packet one-way delay: 113.401 ms

Loss rate: 1.43%

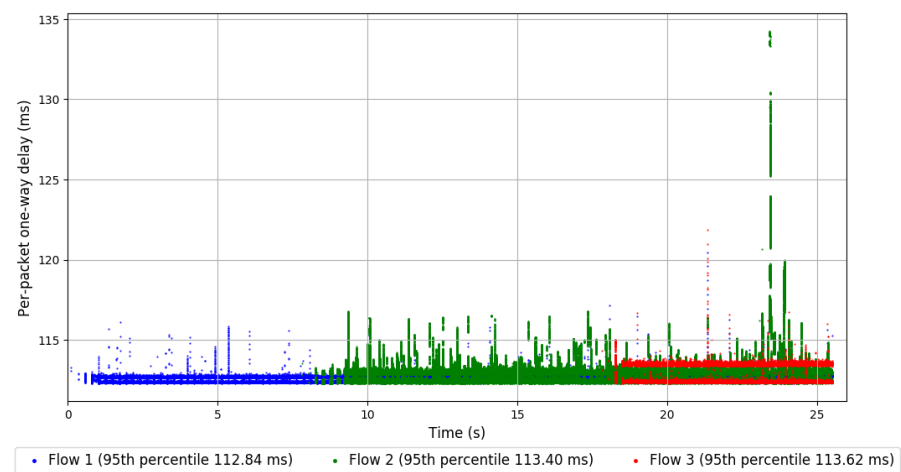
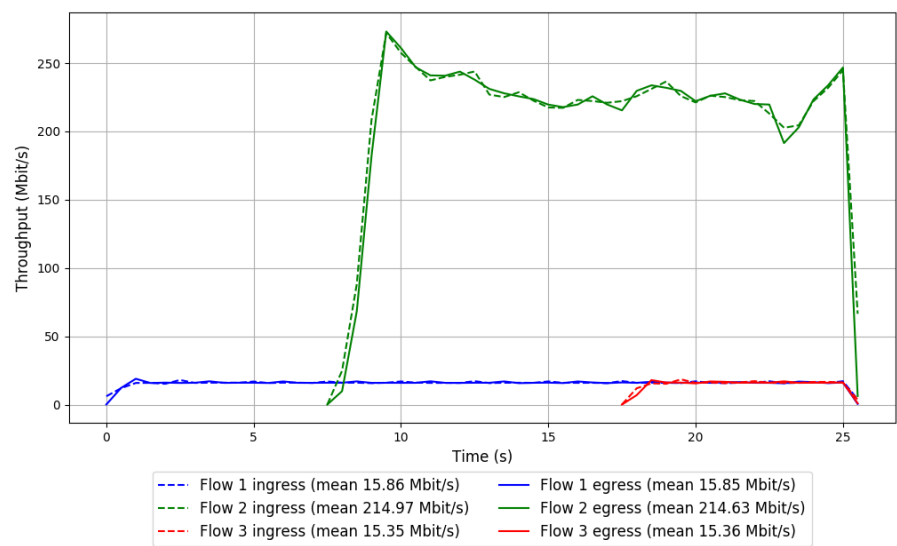
-- Flow 3:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 113.622 ms

Loss rate: 2.77%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-22 02:44:53

End at: 2017-09-22 02:45:23

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.33 Mbit/s

95th percentile per-packet one-way delay: 114.992 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 173.85 Mbit/s

95th percentile per-packet one-way delay: 114.418 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 175.49 Mbit/s

95th percentile per-packet one-way delay: 114.944 ms

Loss rate: 1.27%

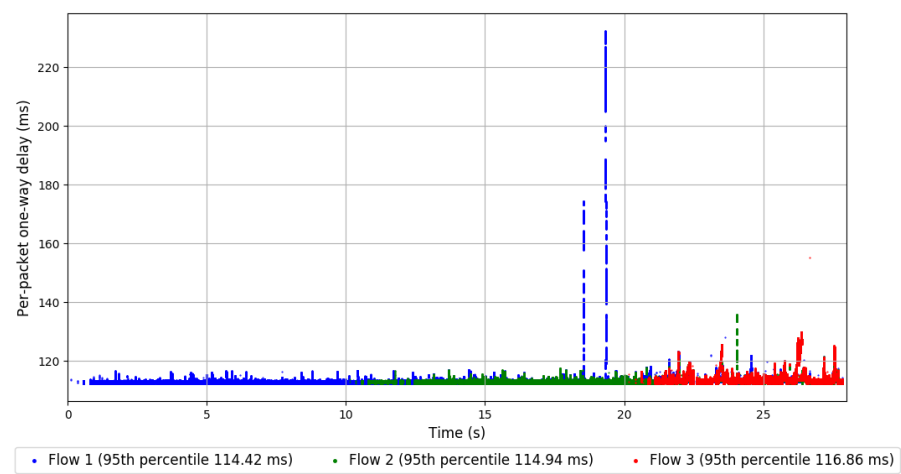
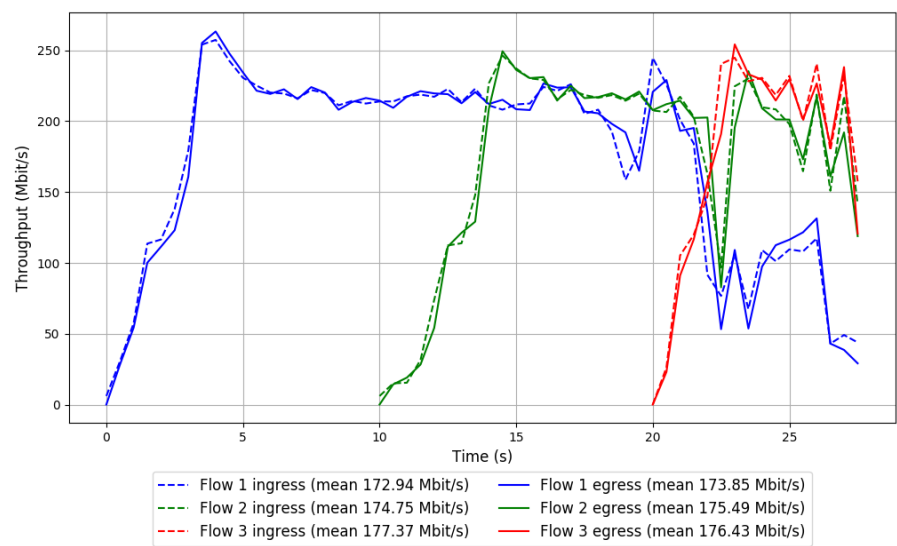
-- Flow 3:

Average throughput: 176.43 Mbit/s

95th percentile per-packet one-way delay: 116.857 ms

Loss rate: 3.35%

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

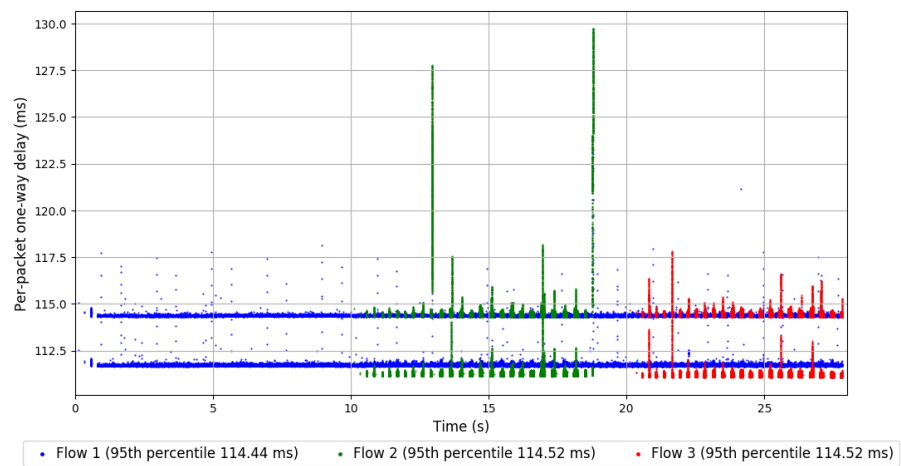
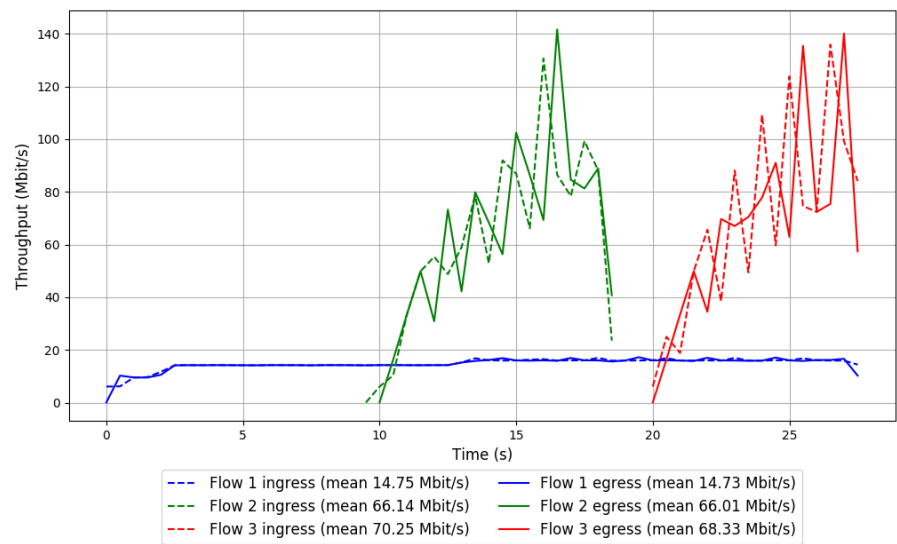


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-22 02:58:36
End at: 2017-09-22 02:59:06

# Below is generated by plot.py at 2017-09-22 05:56:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.41 Mbit/s
95th percentile per-packet one-way delay: 114.499 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 114.440 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 66.01 Mbit/s
95th percentile per-packet one-way delay: 114.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.33 Mbit/s
95th percentile per-packet one-way delay: 114.515 ms
Loss rate: 4.20%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-22 01:03:48

End at: 2017-09-22 01:04:18

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 120.796 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 18.01 Mbit/s

95th percentile per-packet one-way delay: 116.801 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 17.05 Mbit/s

95th percentile per-packet one-way delay: 113.535 ms

Loss rate: 1.26%

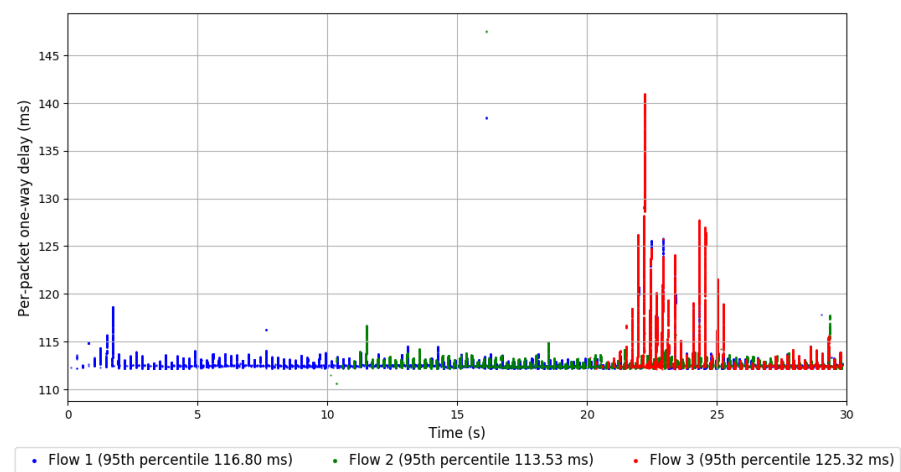
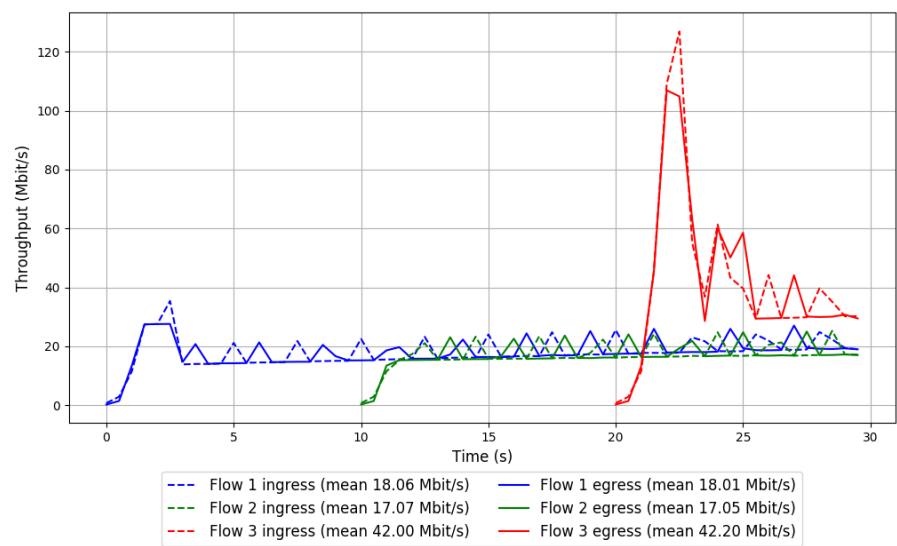
-- Flow 3:

Average throughput: 42.20 Mbit/s

95th percentile per-packet one-way delay: 125.320 ms

Loss rate: 1.84%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-22 01:16:49

End at: 2017-09-22 01:17:19

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.36 Mbit/s

95th percentile per-packet one-way delay: 113.340 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 9.27 Mbit/s

95th percentile per-packet one-way delay: 113.124 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 113.503 ms

Loss rate: 1.17%

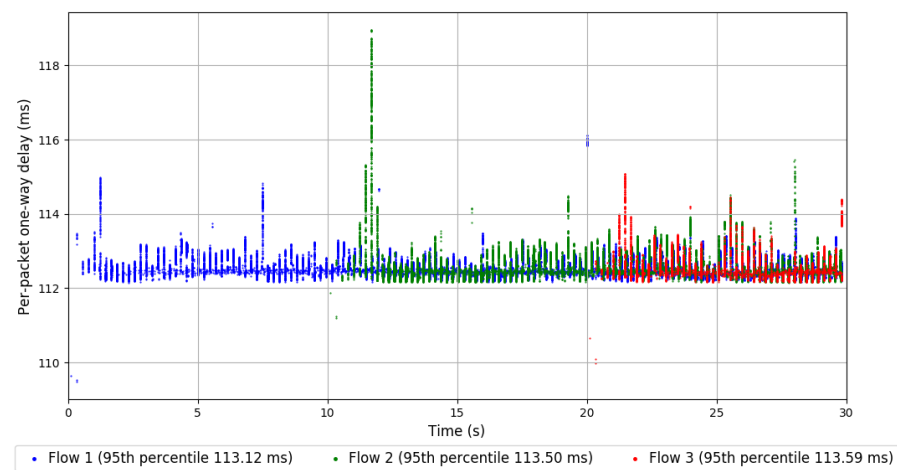
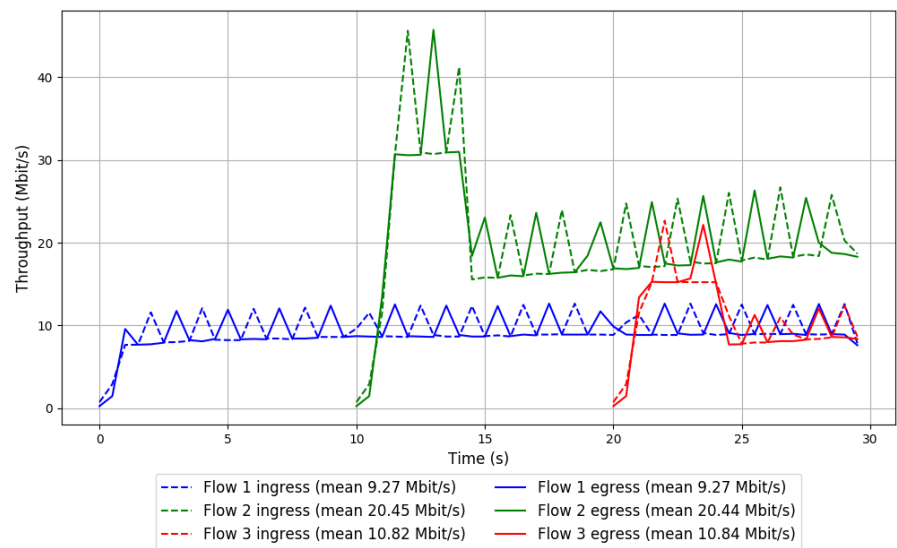
-- Flow 3:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 113.593 ms

Loss rate: 2.10%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-22 01:30:14

End at: 2017-09-22 01:30:44

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.61 Mbit/s

95th percentile per-packet one-way delay: 116.766 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 18.41 Mbit/s

95th percentile per-packet one-way delay: 118.023 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 116.483 ms

Loss rate: 1.11%

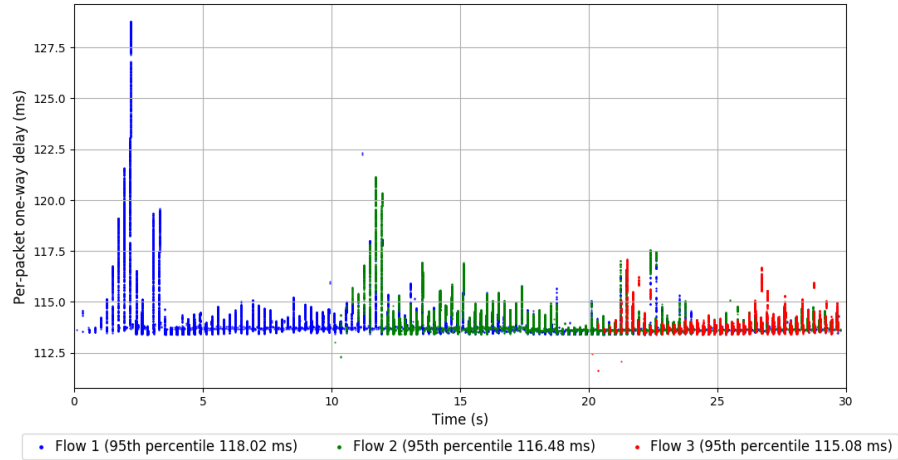
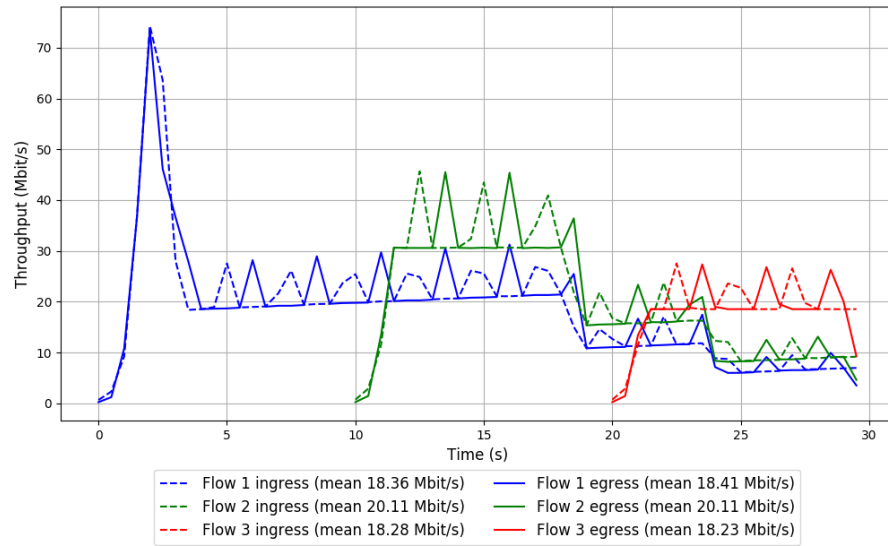
-- Flow 3:

Average throughput: 18.23 Mbit/s

95th percentile per-packet one-way delay: 115.079 ms

Loss rate: 2.59%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-22 01:43:35

End at: 2017-09-22 01:44:05

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.50 Mbit/s

95th percentile per-packet one-way delay: 115.793 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 42.05 Mbit/s

95th percentile per-packet one-way delay: 115.634 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 116.134 ms

Loss rate: 1.19%

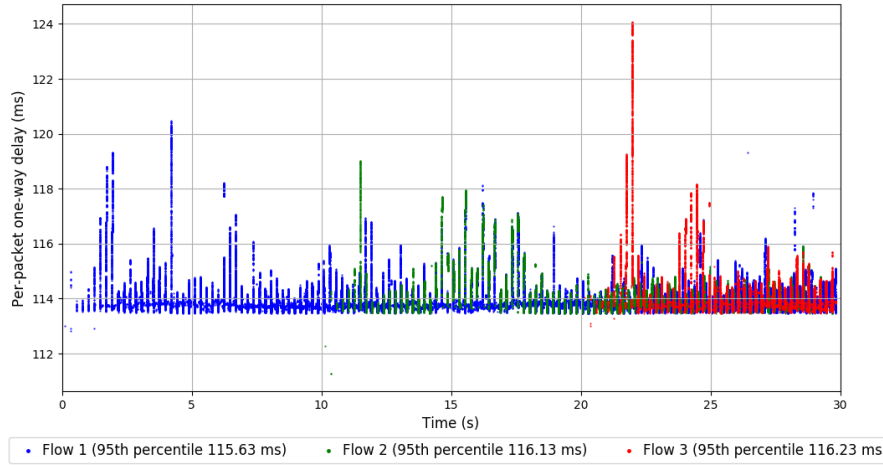
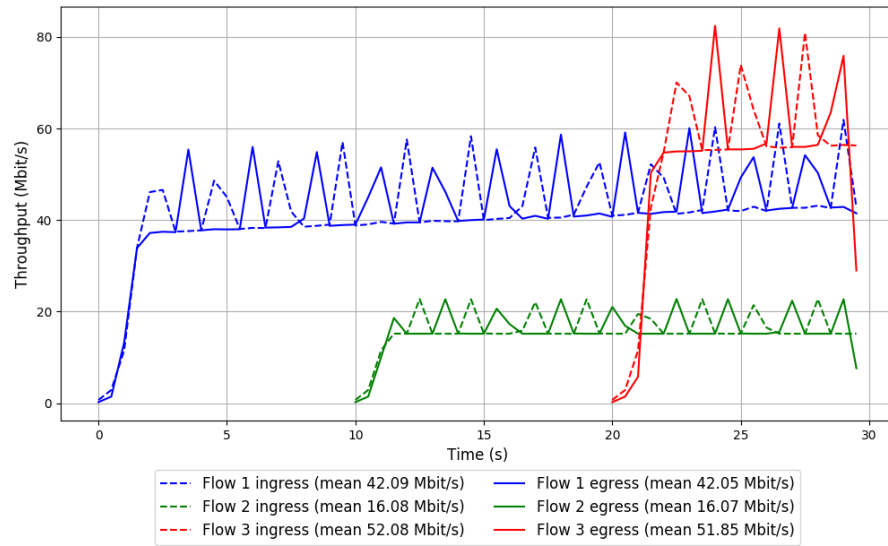
-- Flow 3:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 116.227 ms

Loss rate: 2.73%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-22 01:57:09

End at: 2017-09-22 01:57:39

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 115.225 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 114.540 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 115.695 ms

Loss rate: 1.21%

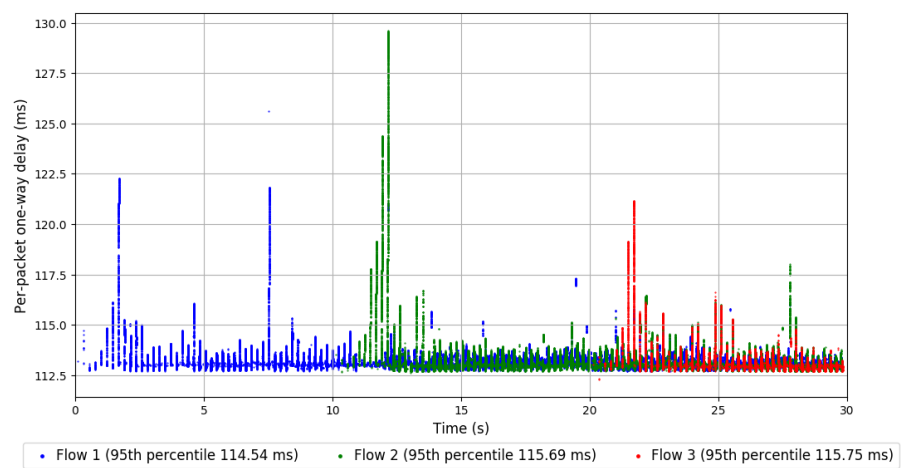
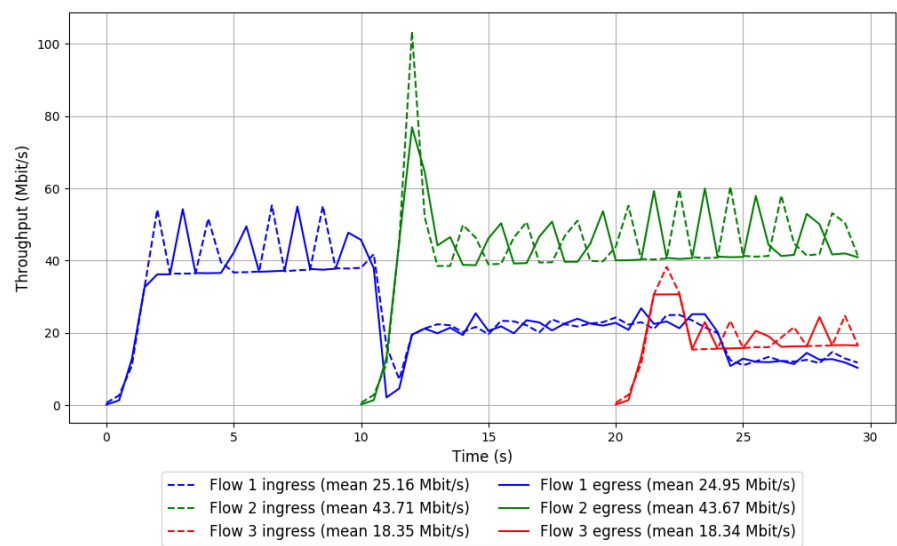
-- Flow 3:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 115.746 ms

Loss rate: 2.33%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-22 02:10:52

End at: 2017-09-22 02:11:22

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 121.689 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 14.60 Mbit/s

95th percentile per-packet one-way delay: 118.050 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 122.885 ms

Loss rate: 0.63%

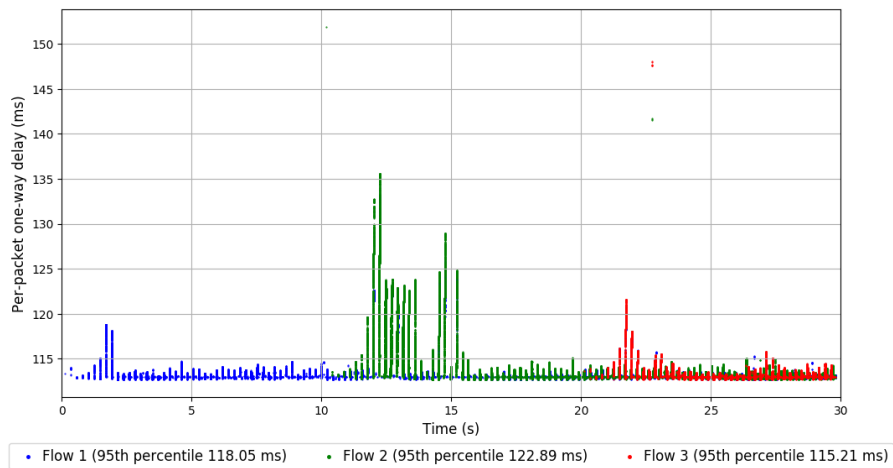
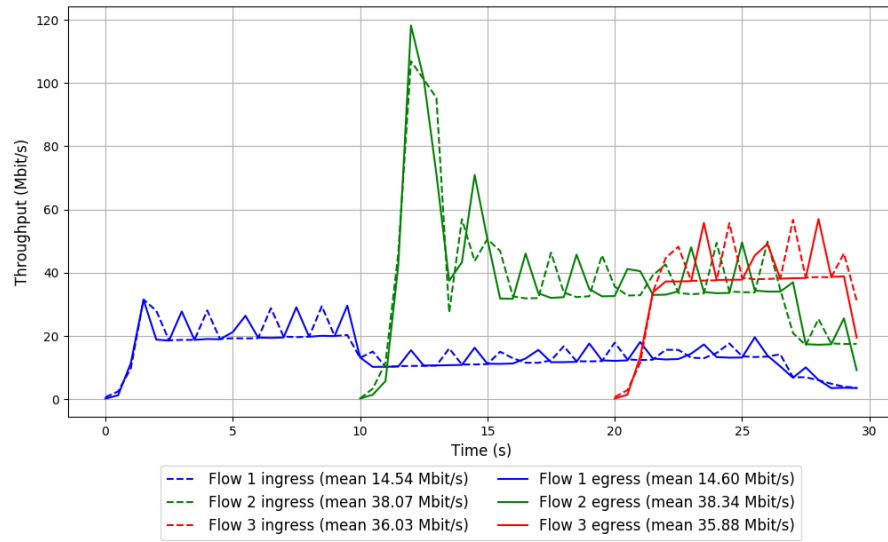
-- Flow 3:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 115.214 ms

Loss rate: 2.71%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-22 02:23:48

End at: 2017-09-22 02:24:18

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.27 Mbit/s

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

Loss rate: 2.12%

-- Flow 1:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 114.200 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: 114.253 ms

Loss rate: 1.31%

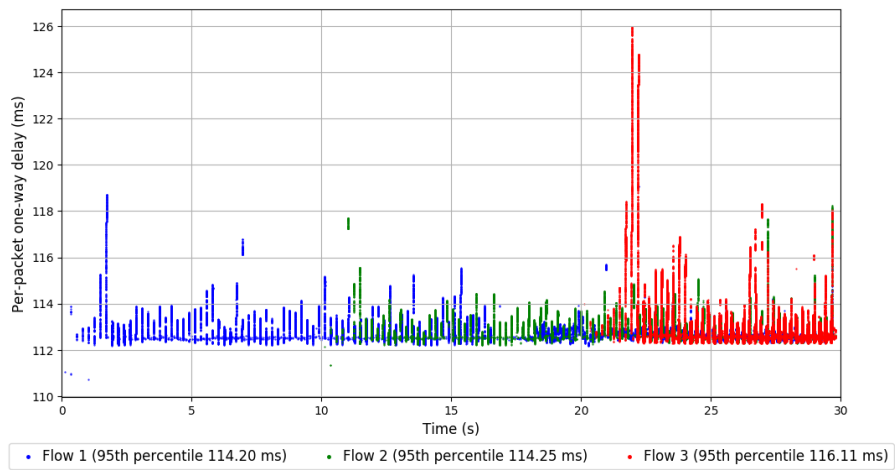
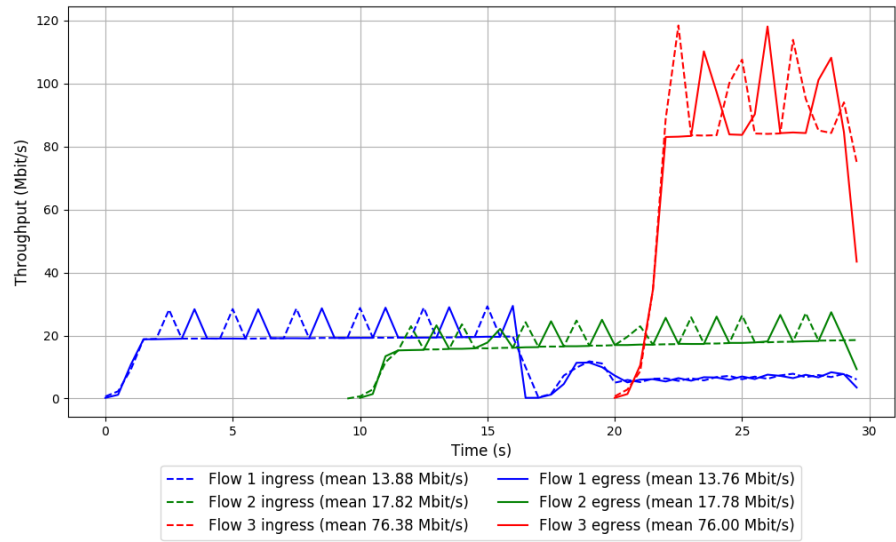
-- Flow 3:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 116.115 ms

Loss rate: 2.79%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-22 02:37:11

End at: 2017-09-22 02:37:41

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.45 Mbit/s

95th percentile per-packet one-way delay: 122.124 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 121.564 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 45.00 Mbit/s

95th percentile per-packet one-way delay: 123.638 ms

Loss rate: 0.70%

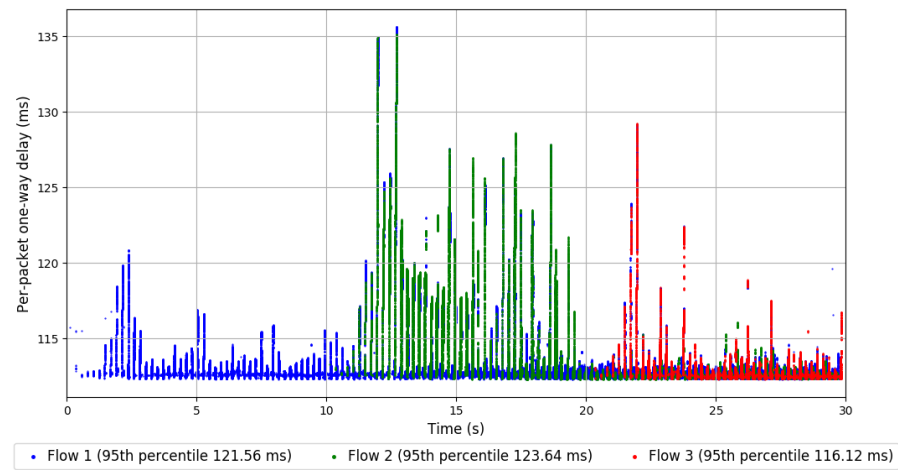
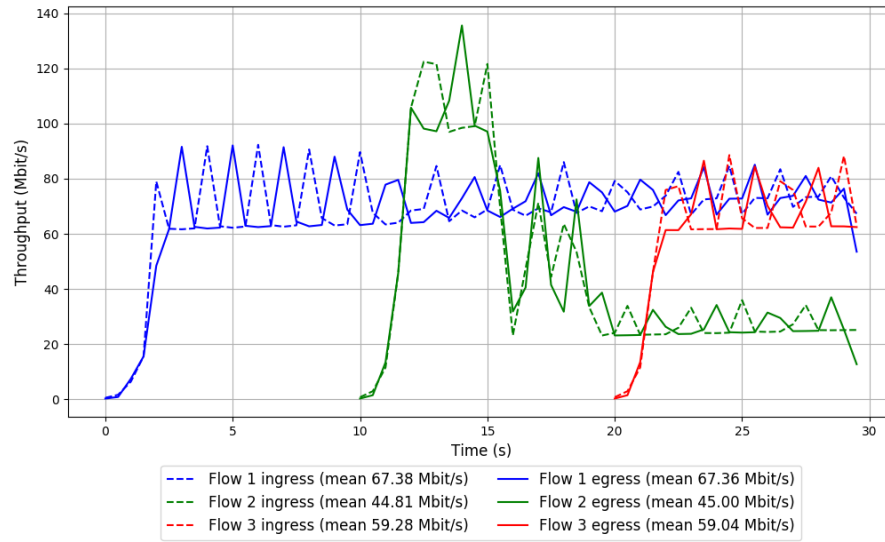
-- Flow 3:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 116.118 ms

Loss rate: 2.67%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-22 02:50:51

End at: 2017-09-22 02:51:21

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 124.024 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 19.63 Mbit/s

95th percentile per-packet one-way delay: 116.424 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 123.466 ms

Loss rate: 1.27%

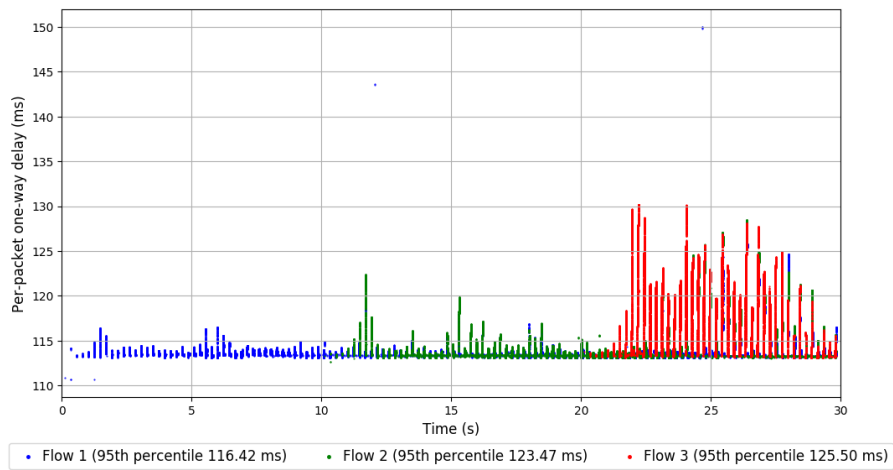
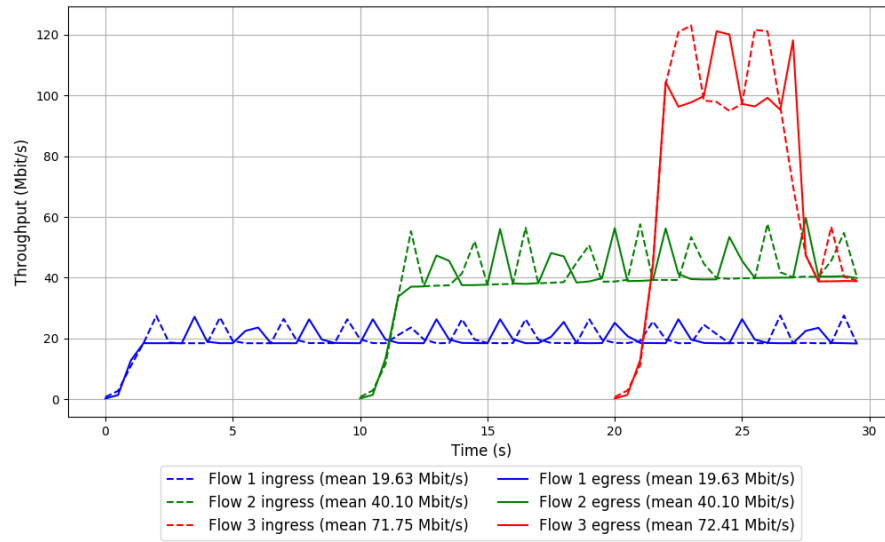
-- Flow 3:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 125.498 ms

Loss rate: 1.38%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-22 03:04:02

End at: 2017-09-22 03:04:32

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.17 Mbit/s

95th percentile per-packet one-way delay: 116.039 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 116.196 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 115.710 ms

Loss rate: 0.63%

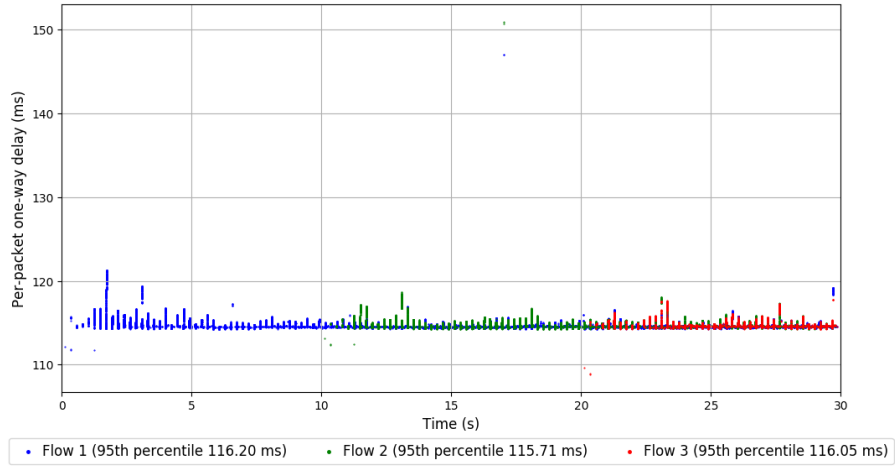
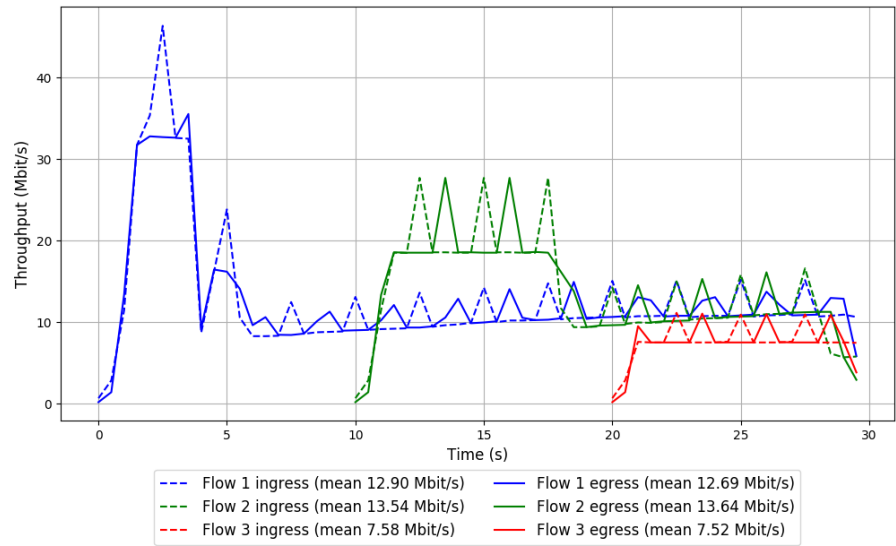
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 116.050 ms

Loss rate: 2.48%

Run 10: Report of TCP Vegas — Data Link

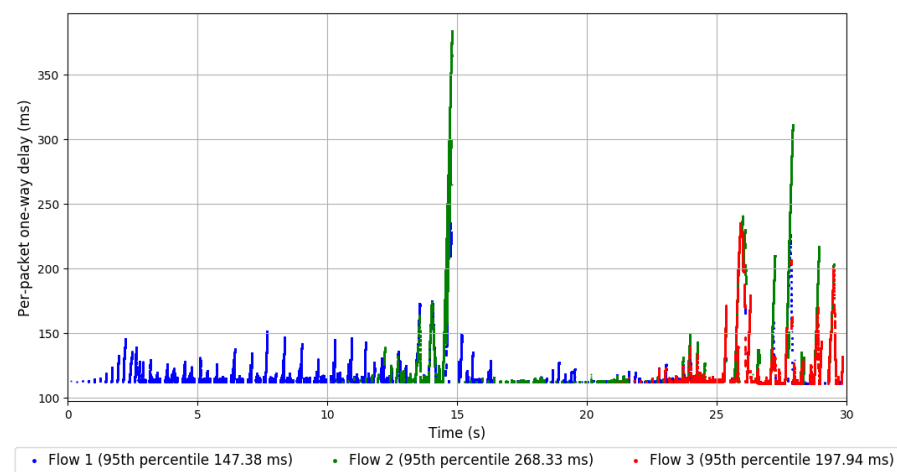
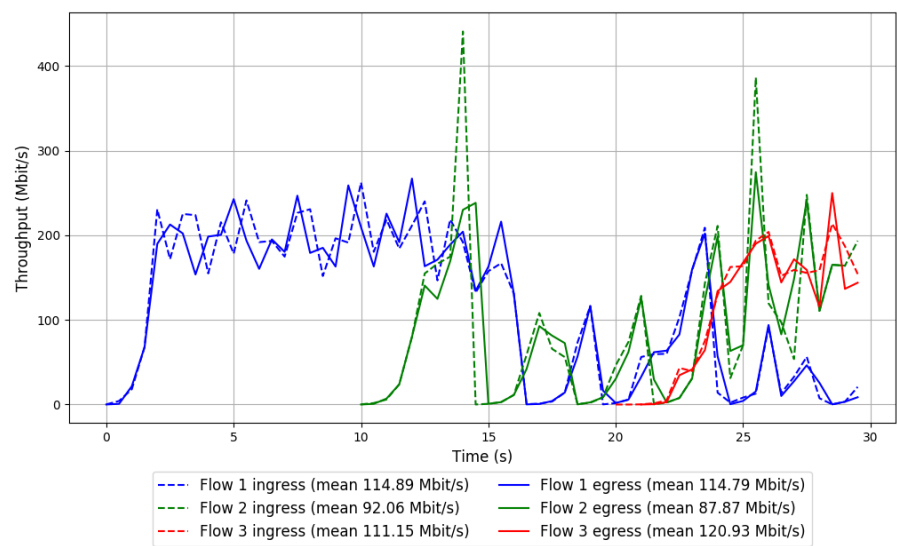


```
Run 1: Statistics of Verus

Start at: 2017-09-22 00:52:22
End at: 2017-09-22 00:52:52

# Below is generated by plot.py at 2017-09-22 05:56:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.89 Mbit/s
95th percentile per-packet one-way delay: 211.000 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 114.79 Mbit/s
95th percentile per-packet one-way delay: 147.381 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 87.87 Mbit/s
95th percentile per-packet one-way delay: 268.328 ms
Loss rate: 6.71%
-- Flow 3:
Average throughput: 120.93 Mbit/s
95th percentile per-packet one-way delay: 197.940 ms
Loss rate: 4.43%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-22 01:05:49

End at: 2017-09-22 01:06:19

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.66 Mbit/s

95th percentile per-packet one-way delay: 338.161 ms

Loss rate: 9.88%

-- Flow 1:

Average throughput: 67.63 Mbit/s

95th percentile per-packet one-way delay: 163.286 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 188.33 Mbit/s

95th percentile per-packet one-way delay: 345.001 ms

Loss rate: 14.04%

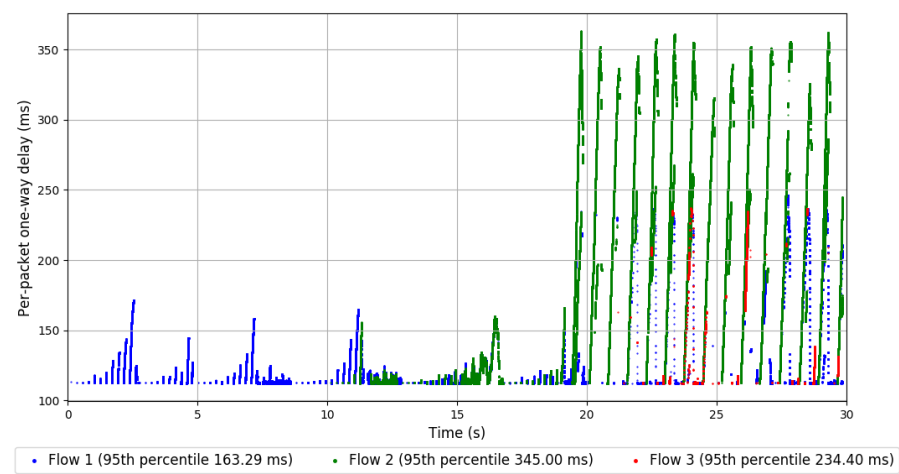
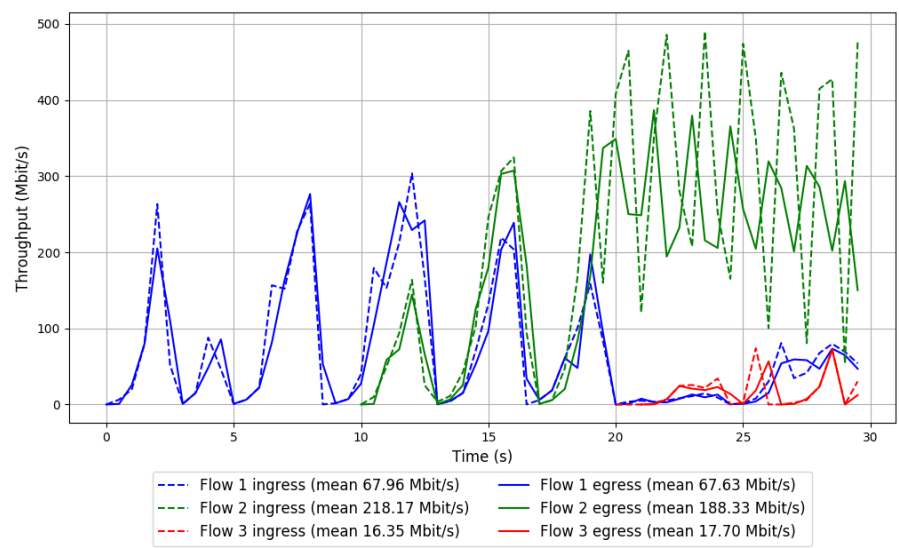
-- Flow 3:

Average throughput: 17.70 Mbit/s

95th percentile per-packet one-way delay: 234.403 ms

Loss rate: 7.37%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-22 01:18:46

End at: 2017-09-22 01:19:16

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.39 Mbit/s

95th percentile per-packet one-way delay: 218.702 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 231.43 Mbit/s

95th percentile per-packet one-way delay: 223.132 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 196.520 ms

Loss rate: 1.04%

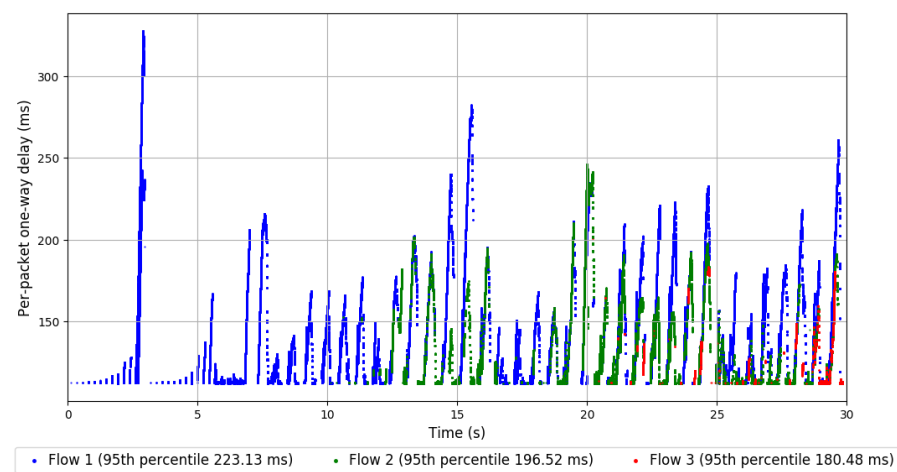
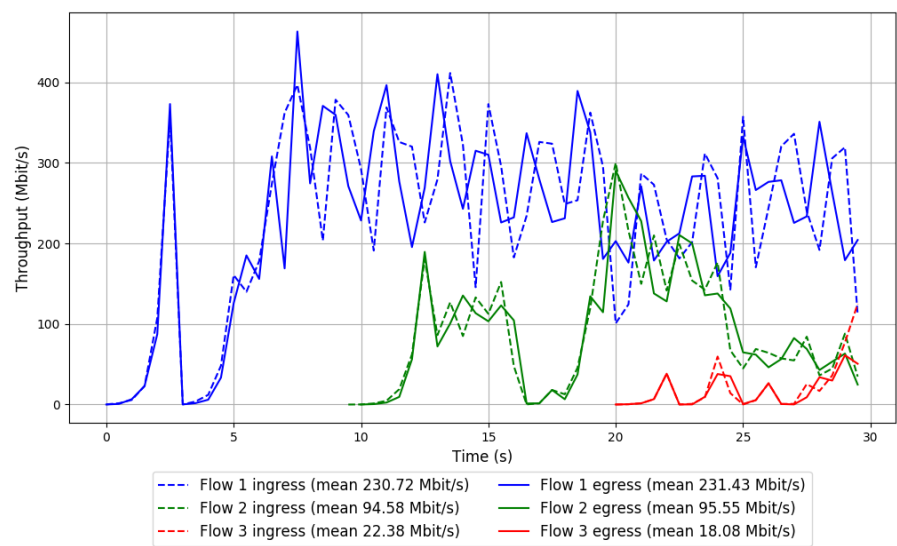
-- Flow 3:

Average throughput: 18.08 Mbit/s

95th percentile per-packet one-way delay: 180.483 ms

Loss rate: 21.71%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-22 01:32:16

End at: 2017-09-22 01:32:46

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.14 Mbit/s

95th percentile per-packet one-way delay: 223.545 ms

Loss rate: 3.06%

-- Flow 1:

Average throughput: 177.96 Mbit/s

95th percentile per-packet one-way delay: 166.102 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 133.54 Mbit/s

95th percentile per-packet one-way delay: 232.525 ms

Loss rate: 4.15%

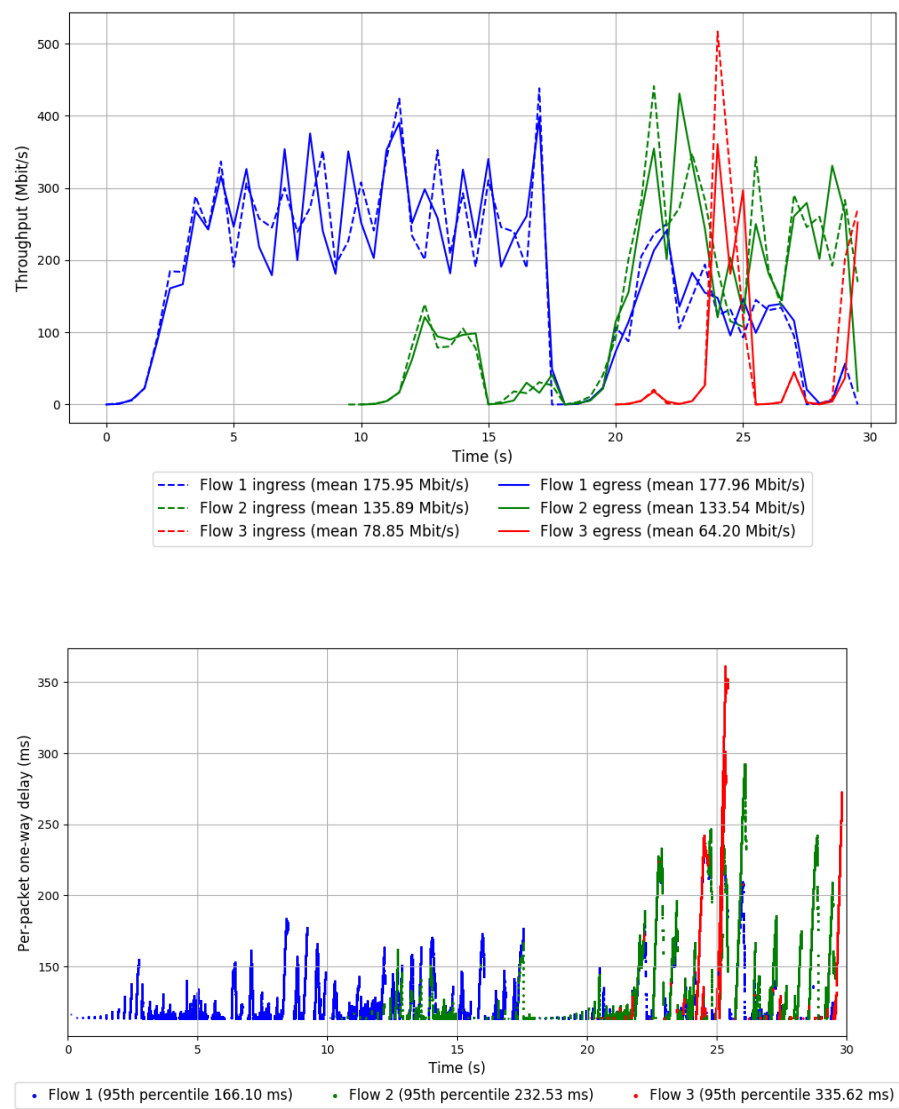
-- Flow 3:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 335.620 ms

Loss rate: 19.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-22 01:45:40

End at: 2017-09-22 01:46:10

Below is generated by plot.py at 2017-09-22 05:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.49 Mbit/s

95th percentile per-packet one-way delay: 253.061 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 209.473 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 176.92 Mbit/s

95th percentile per-packet one-way delay: 249.221 ms

Loss rate: 4.11%

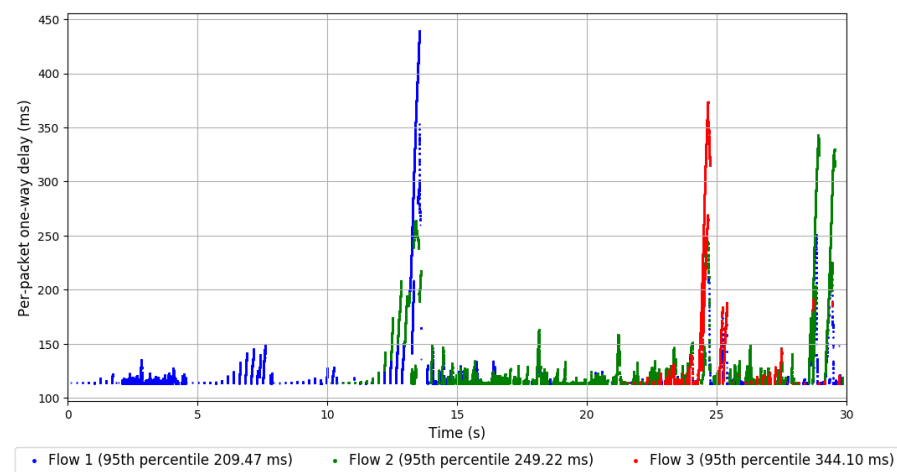
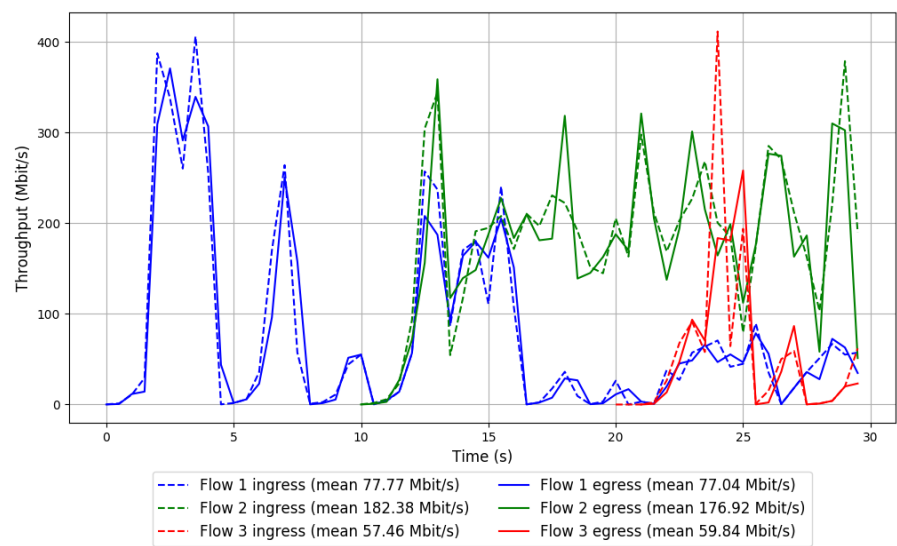
-- Flow 3:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 344.099 ms

Loss rate: 9.39%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-22 01:59:13

End at: 2017-09-22 01:59:43

Below is generated by plot.py at 2017-09-22 05:57:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.89 Mbit/s

95th percentile per-packet one-way delay: 294.656 ms

Loss rate: 4.25%

-- Flow 1:

Average throughput: 235.89 Mbit/s

95th percentile per-packet one-way delay: 297.155 ms

Loss rate: 2.53%

-- Flow 2:

Average throughput: 78.73 Mbit/s

95th percentile per-packet one-way delay: 199.252 ms

Loss rate: 5.44%

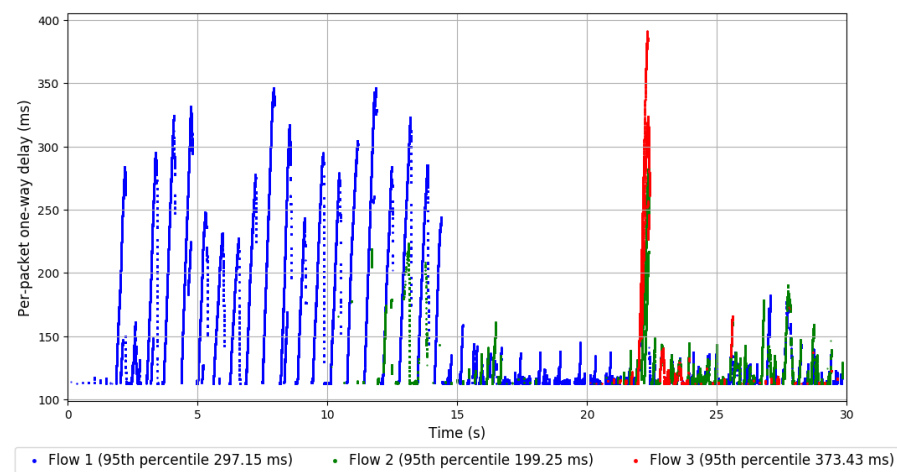
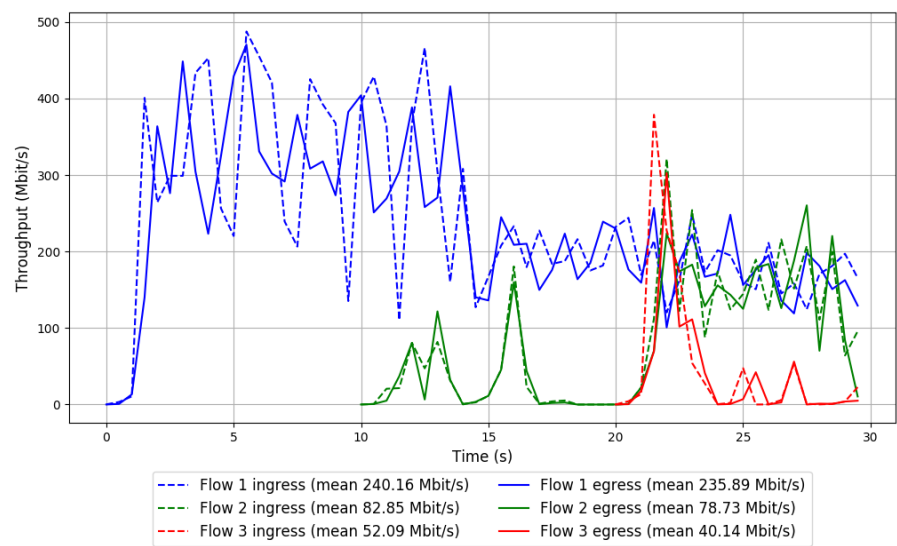
-- Flow 3:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 373.428 ms

Loss rate: 24.78%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-22 02:12:54

End at: 2017-09-22 02:13:24

Below is generated by plot.py at 2017-09-22 05:57:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.48 Mbit/s

95th percentile per-packet one-way delay: 191.442 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 174.716 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 111.11 Mbit/s

95th percentile per-packet one-way delay: 152.230 ms

Loss rate: 0.03%

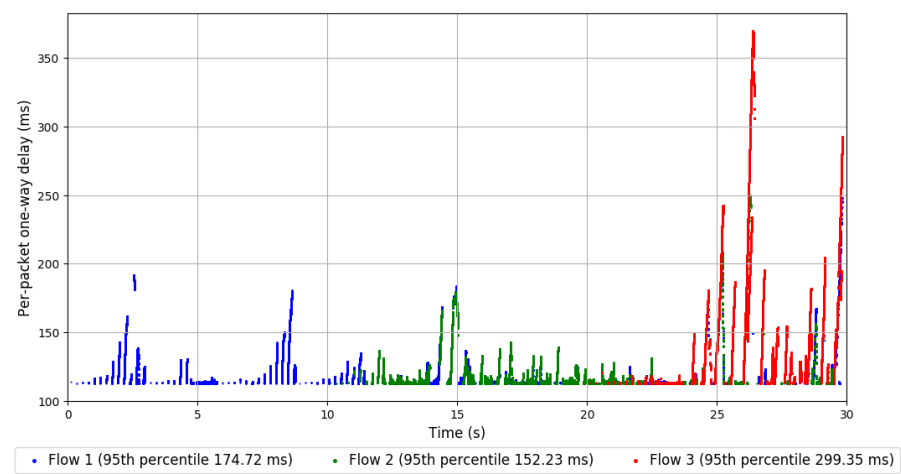
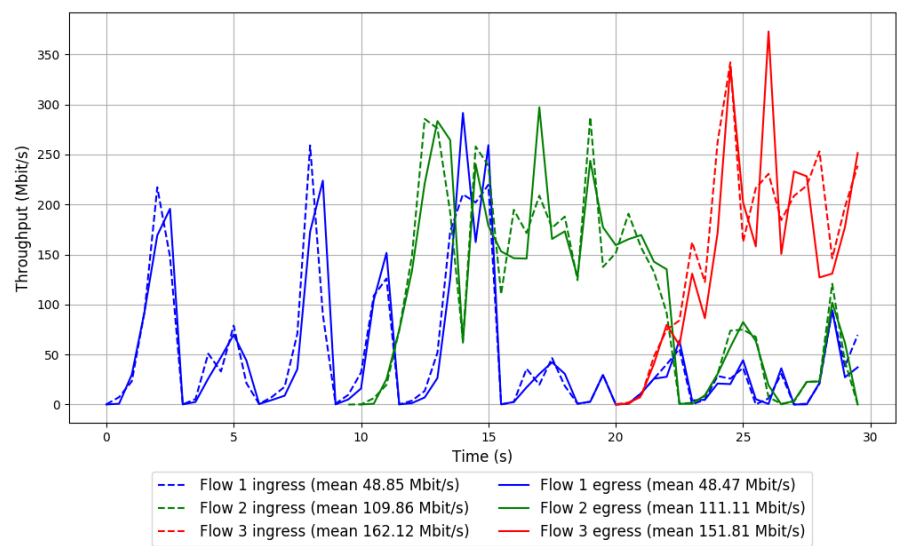
-- Flow 3:

Average throughput: 151.81 Mbit/s

95th percentile per-packet one-way delay: 299.346 ms

Loss rate: 6.80%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-22 02:25:50

End at: 2017-09-22 02:26:20

Below is generated by plot.py at 2017-09-22 05:59:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.27 Mbit/s

95th percentile per-packet one-way delay: 178.234 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 231.23 Mbit/s

95th percentile per-packet one-way delay: 164.638 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 191.458 ms

Loss rate: 1.64%

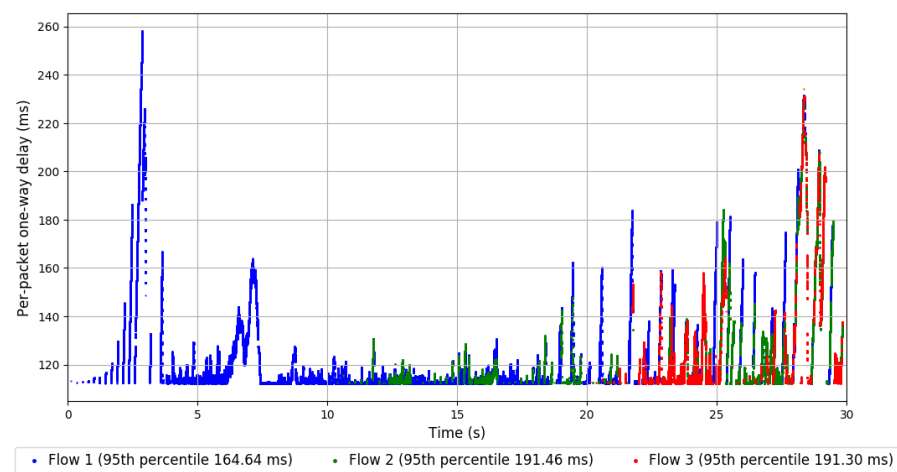
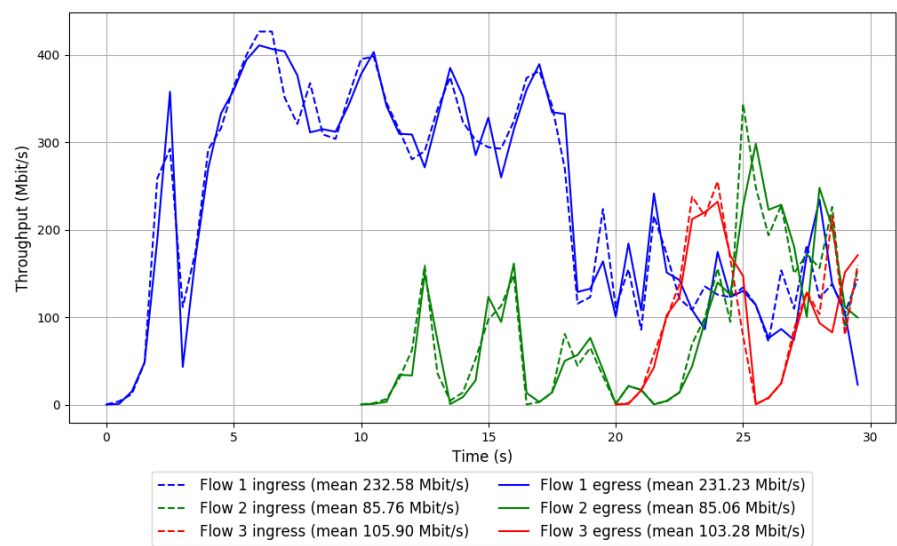
-- Flow 3:

Average throughput: 103.28 Mbit/s

95th percentile per-packet one-way delay: 191.298 ms

Loss rate: 3.38%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-22 02:39:19

End at: 2017-09-22 02:39:49

Below is generated by plot.py at 2017-09-22 05:59:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.68 Mbit/s

95th percentile per-packet one-way delay: 208.239 ms

Loss rate: 3.50%

-- Flow 1:

Average throughput: 65.09 Mbit/s

95th percentile per-packet one-way delay: 181.641 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 139.87 Mbit/s

95th percentile per-packet one-way delay: 222.171 ms

Loss rate: 3.96%

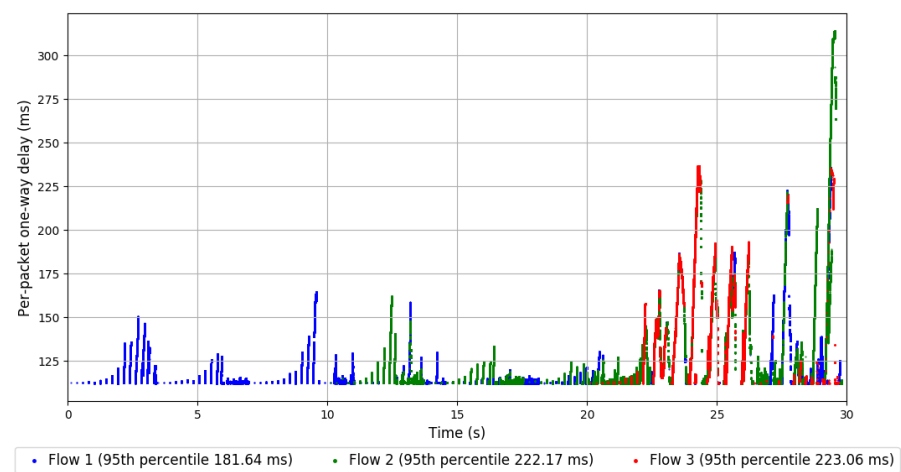
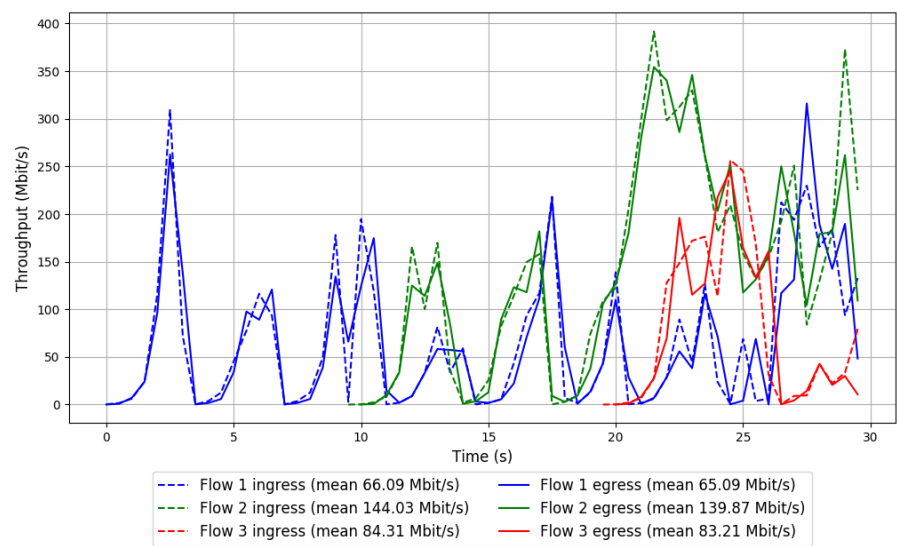
-- Flow 3:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 223.060 ms

Loss rate: 5.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-22 02:52:54

End at: 2017-09-22 02:53:24

Below is generated by plot.py at 2017-09-22 06:00:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.55 Mbit/s

95th percentile per-packet one-way delay: 242.277 ms

Loss rate: 5.53%

-- Flow 1:

Average throughput: 184.63 Mbit/s

95th percentile per-packet one-way delay: 230.707 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 220.486 ms

Loss rate: 0.77%

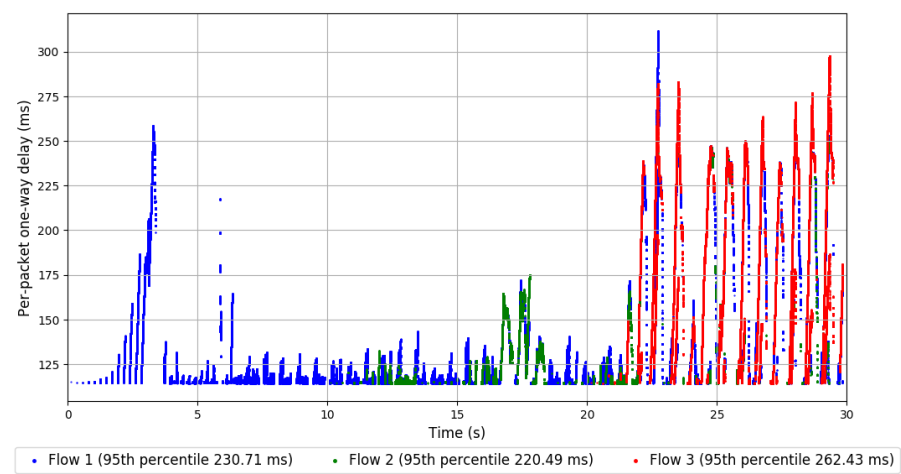
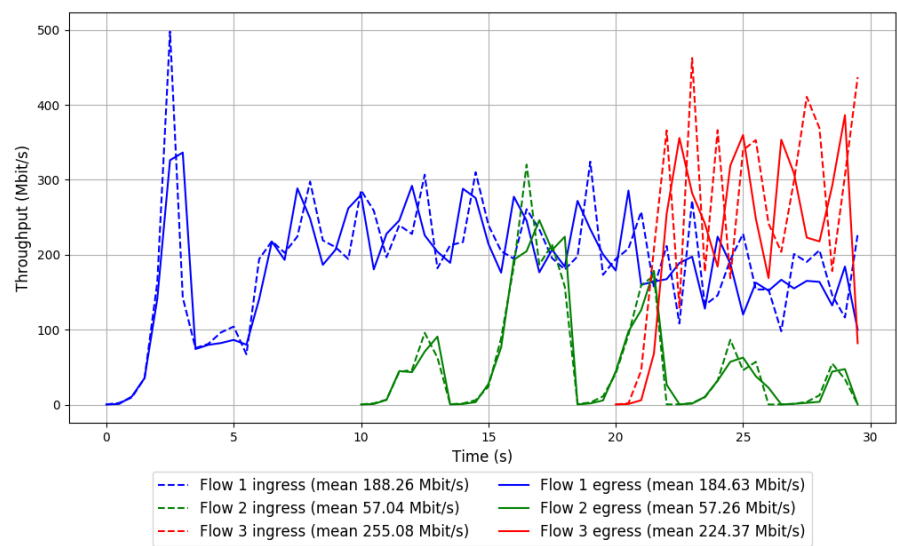
-- Flow 3:

Average throughput: 224.37 Mbit/s

95th percentile per-packet one-way delay: 262.434 ms

Loss rate: 14.03%

Run 10: Report of Verus — Data Link

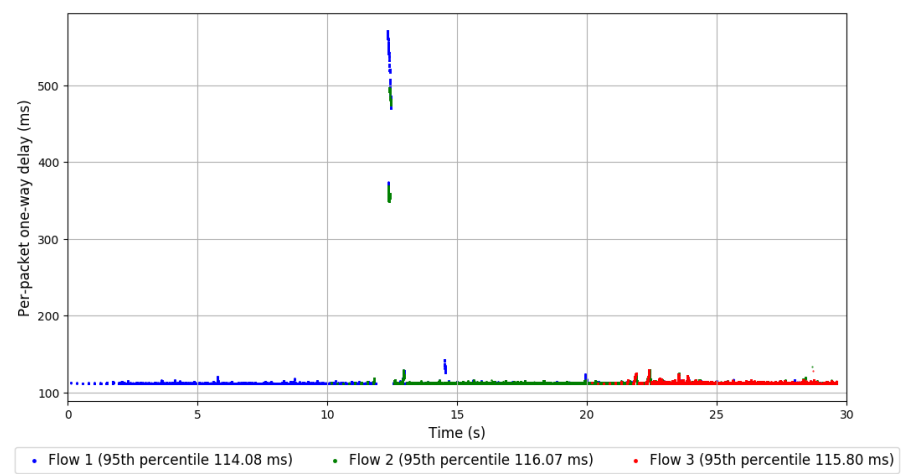
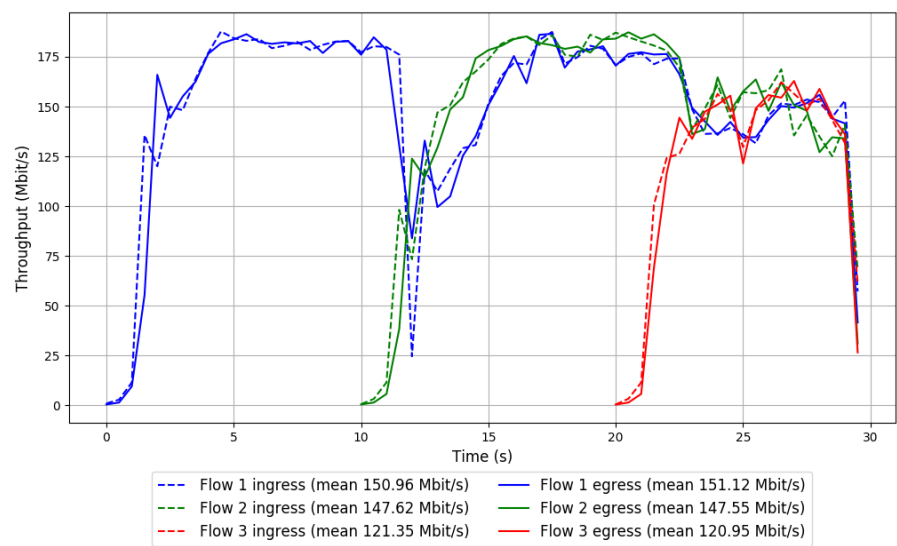


```
Run 1: Statistics of Indigo

Start at: 2017-09-22 01:01:45
End at: 2017-09-22 01:02:15

# Below is generated by plot.py at 2017-09-22 06:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.16 Mbit/s
95th percentile per-packet one-way delay: 115.029 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 151.12 Mbit/s
95th percentile per-packet one-way delay: 114.075 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 147.55 Mbit/s
95th percentile per-packet one-way delay: 116.068 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 120.95 Mbit/s
95th percentile per-packet one-way delay: 115.798 ms
Loss rate: 2.63%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-22 01:14:41

End at: 2017-09-22 01:15:11

Below is generated by plot.py at 2017-09-22 06:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.03 Mbit/s

95th percentile per-packet one-way delay: 113.519 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 158.83 Mbit/s

95th percentile per-packet one-way delay: 113.171 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 141.29 Mbit/s

95th percentile per-packet one-way delay: 113.835 ms

Loss rate: 1.11%

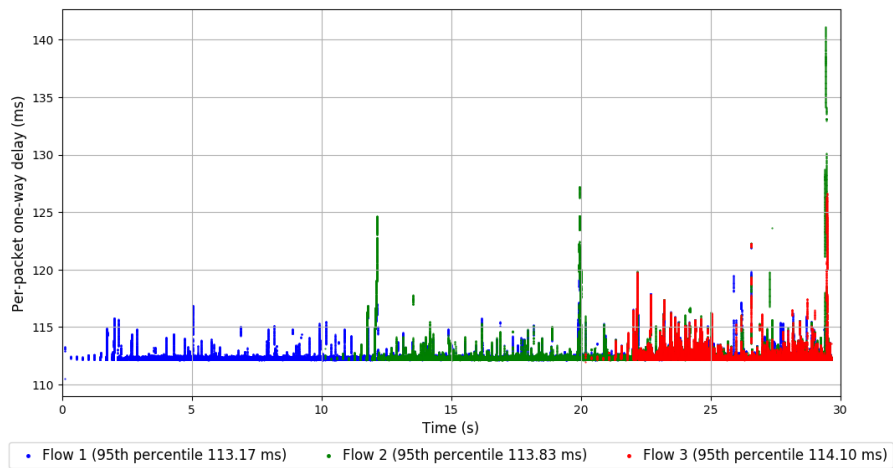
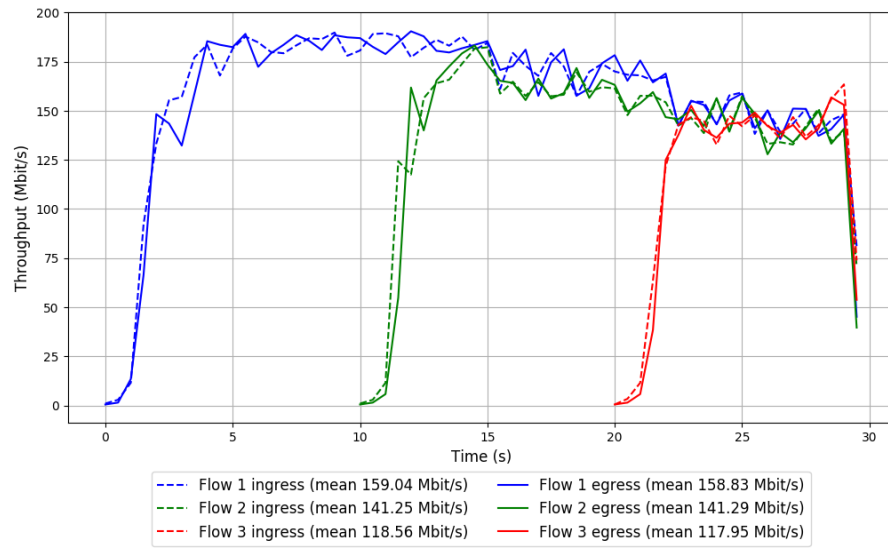
-- Flow 3:

Average throughput: 117.95 Mbit/s

95th percentile per-packet one-way delay: 114.099 ms

Loss rate: 2.82%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-22 01:28:06

End at: 2017-09-22 01:28:36

Below is generated by plot.py at 2017-09-22 06:01:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.29 Mbit/s

95th percentile per-packet one-way delay: 115.150 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 158.36 Mbit/s

95th percentile per-packet one-way delay: 114.669 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 141.67 Mbit/s

95th percentile per-packet one-way delay: 115.208 ms

Loss rate: 1.26%

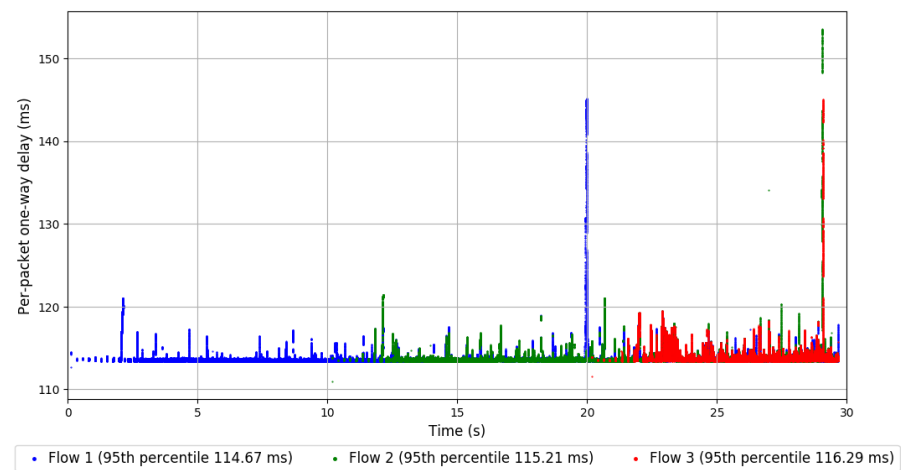
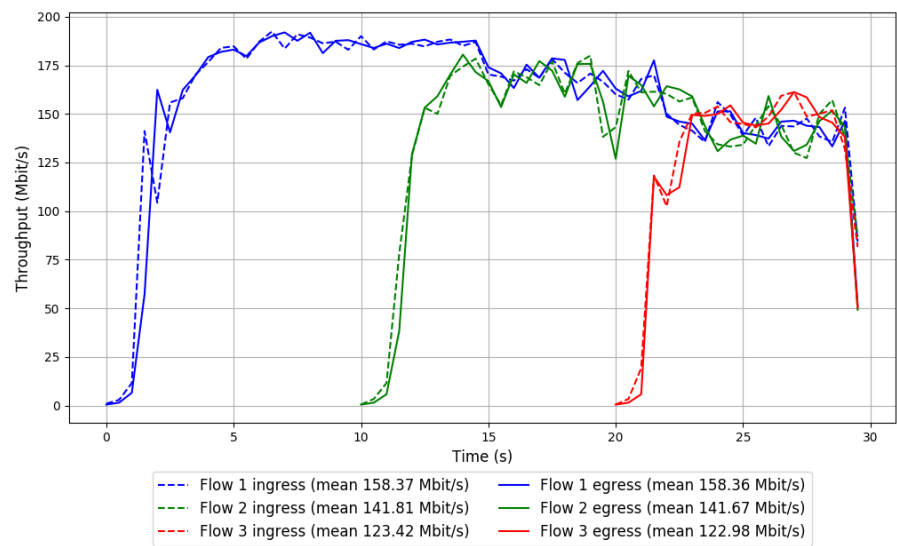
-- Flow 3:

Average throughput: 122.98 Mbit/s

95th percentile per-packet one-way delay: 116.289 ms

Loss rate: 2.64%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-22 01:41:28

End at: 2017-09-22 01:41:58

Below is generated by plot.py at 2017-09-22 06:01:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.71 Mbit/s

95th percentile per-packet one-way delay: 115.542 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 156.66 Mbit/s

95th percentile per-packet one-way delay: 114.930 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 143.33 Mbit/s

95th percentile per-packet one-way delay: 116.037 ms

Loss rate: 0.95%

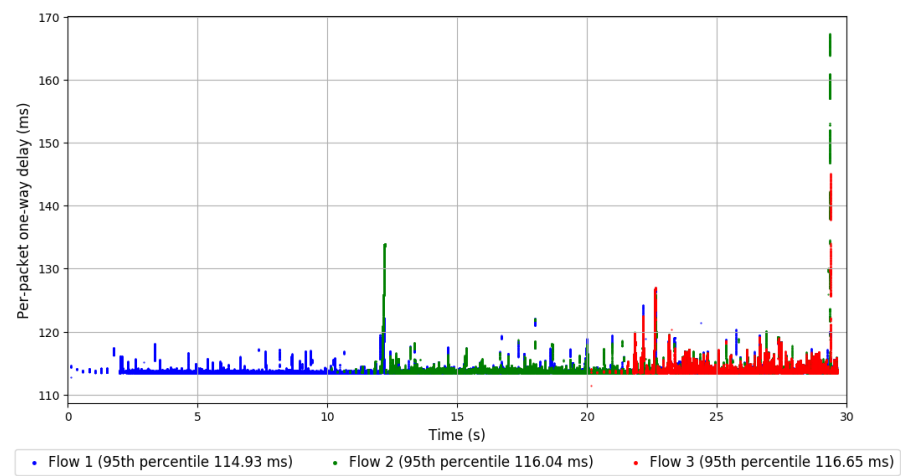
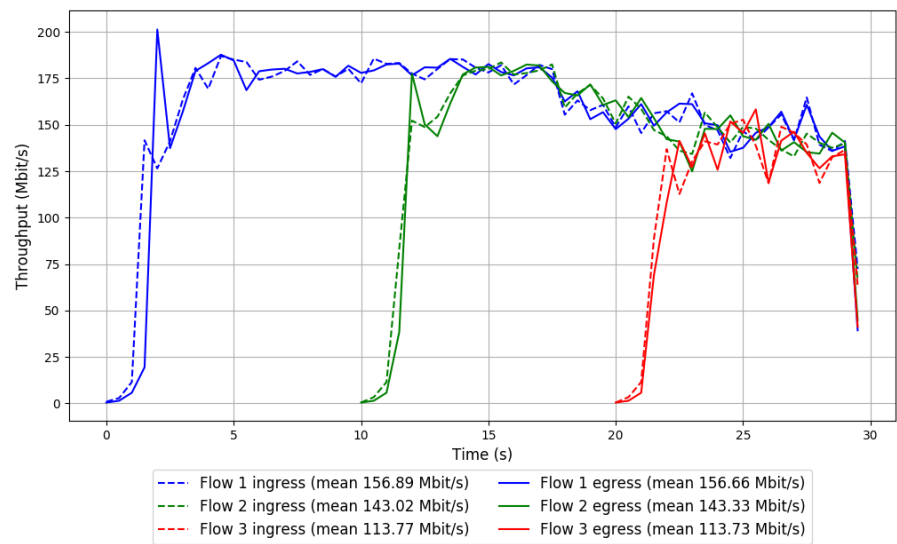
-- Flow 3:

Average throughput: 113.73 Mbit/s

95th percentile per-packet one-way delay: 116.646 ms

Loss rate: 2.41%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-22 01:54:52

End at: 2017-09-22 01:55:22

Below is generated by plot.py at 2017-09-22 06:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.90 Mbit/s

95th percentile per-packet one-way delay: 114.799 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 154.79 Mbit/s

95th percentile per-packet one-way delay: 114.088 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 139.86 Mbit/s

95th percentile per-packet one-way delay: 115.296 ms

Loss rate: 1.23%

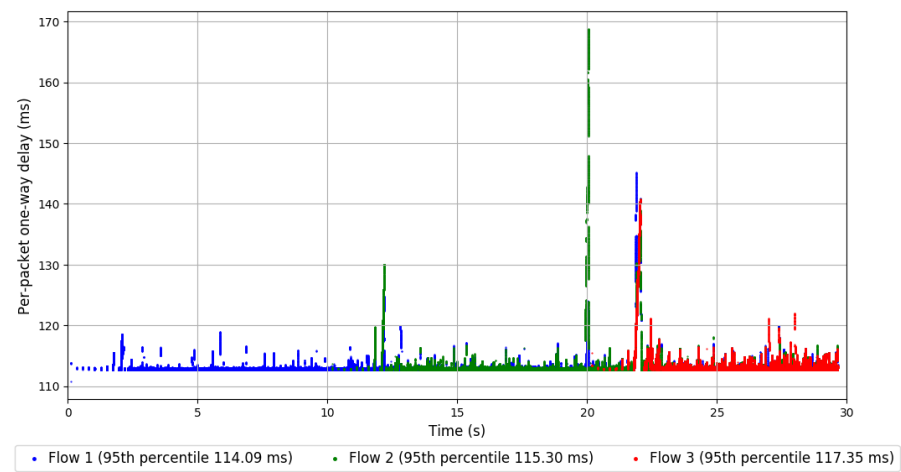
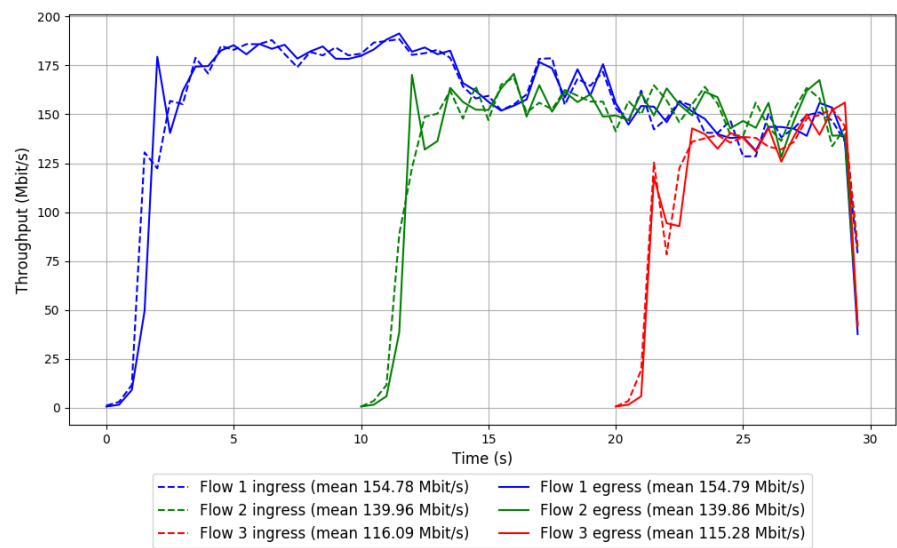
-- Flow 3:

Average throughput: 115.28 Mbit/s

95th percentile per-packet one-way delay: 117.354 ms

Loss rate: 3.02%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-22 02:08:48

End at: 2017-09-22 02:09:18

Below is generated by plot.py at 2017-09-22 06:02:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.51 Mbit/s

95th percentile per-packet one-way delay: 114.147 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 149.24 Mbit/s

95th percentile per-packet one-way delay: 113.863 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 134.16 Mbit/s

95th percentile per-packet one-way delay: 114.312 ms

Loss rate: 1.21%

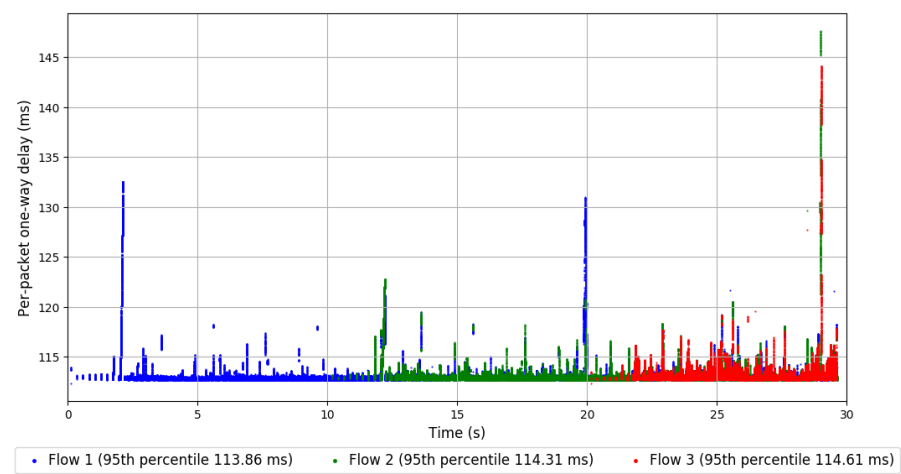
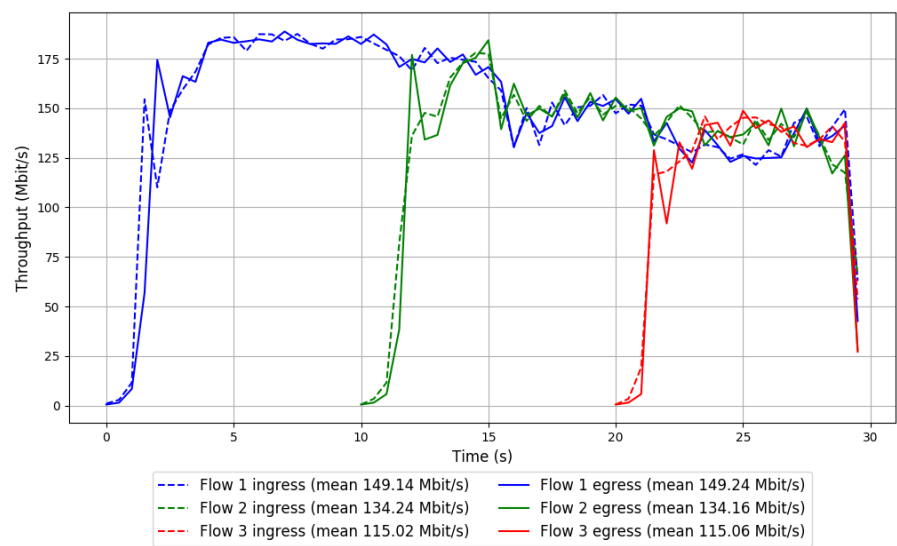
-- Flow 3:

Average throughput: 115.06 Mbit/s

95th percentile per-packet one-way delay: 114.614 ms

Loss rate: 2.40%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-22 02:21:43

End at: 2017-09-22 02:22:13

Below is generated by plot.py at 2017-09-22 06:04:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.32 Mbit/s

95th percentile per-packet one-way delay: 114.257 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 146.82 Mbit/s

95th percentile per-packet one-way delay: 113.942 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 126.14 Mbit/s

95th percentile per-packet one-way delay: 115.290 ms

Loss rate: 1.10%

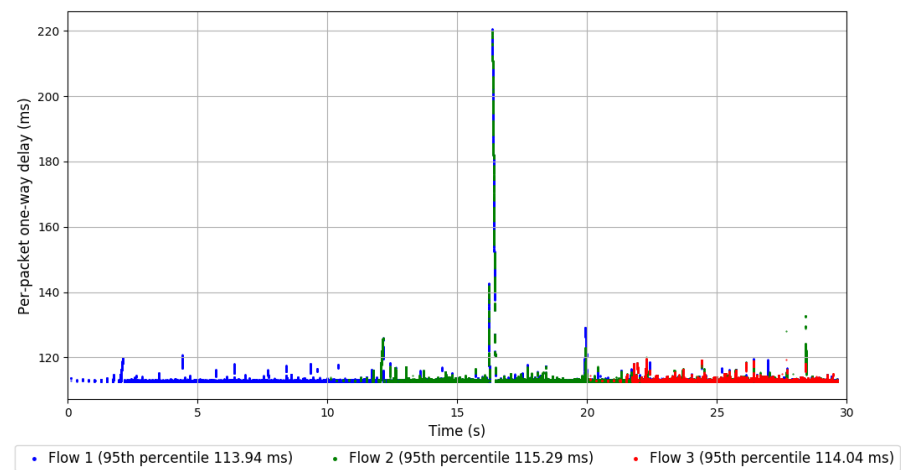
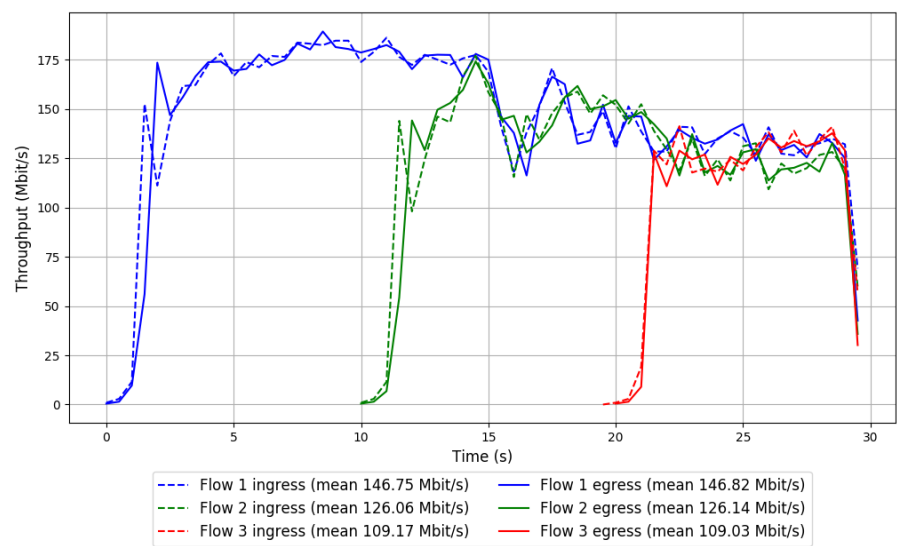
-- Flow 3:

Average throughput: 109.03 Mbit/s

95th percentile per-packet one-way delay: 114.036 ms

Loss rate: 2.43%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-22 02:35:06

End at: 2017-09-22 02:35:36

Below is generated by plot.py at 2017-09-22 06:04:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.85 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 152.94 Mbit/s

95th percentile per-packet one-way delay: 113.521 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 140.77 Mbit/s

95th percentile per-packet one-way delay: 113.818 ms

Loss rate: 1.22%

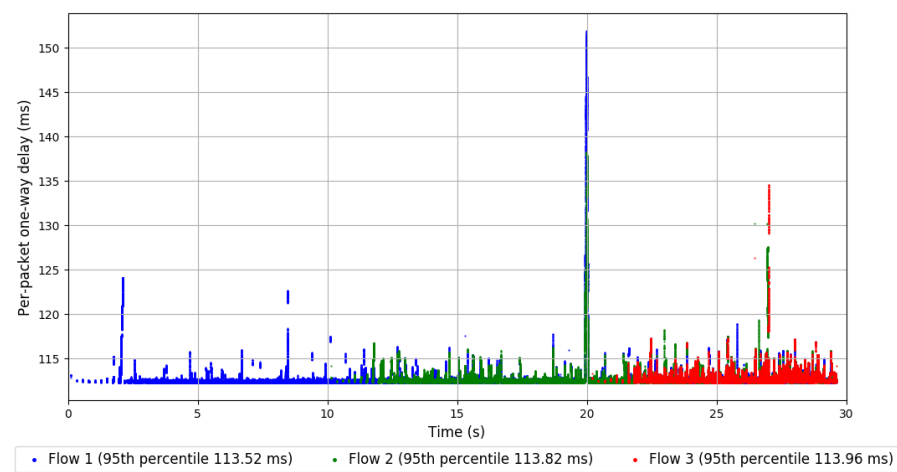
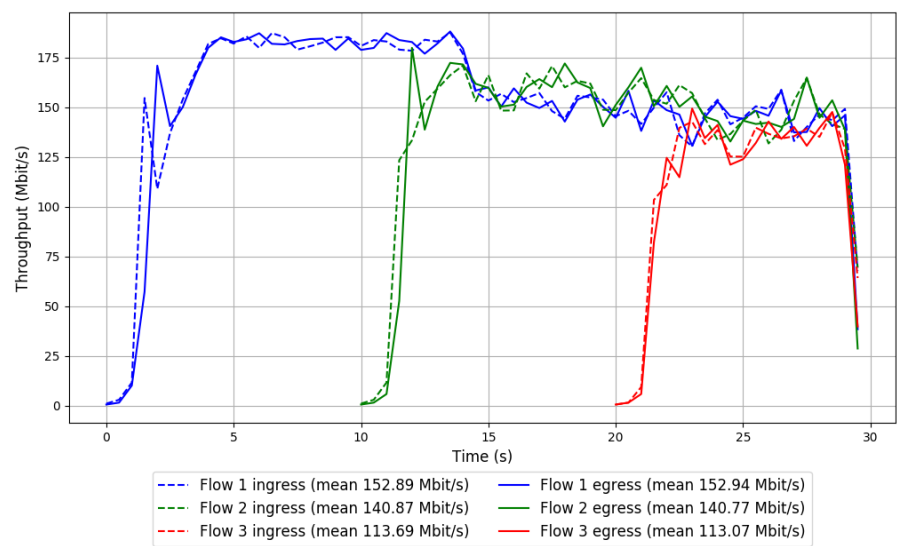
-- Flow 3:

Average throughput: 113.07 Mbit/s

95th percentile per-packet one-way delay: 113.963 ms

Loss rate: 2.86%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-22 02:48:44

End at: 2017-09-22 02:49:14

Below is generated by plot.py at 2017-09-22 06:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.55 Mbit/s

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

Loss rate: 1.18%

-- Flow 1:

Average throughput: 157.39 Mbit/s

95th percentile per-packet one-way delay: 114.536 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 139.04 Mbit/s

95th percentile per-packet one-way delay: 115.705 ms

Loss rate: 1.08%

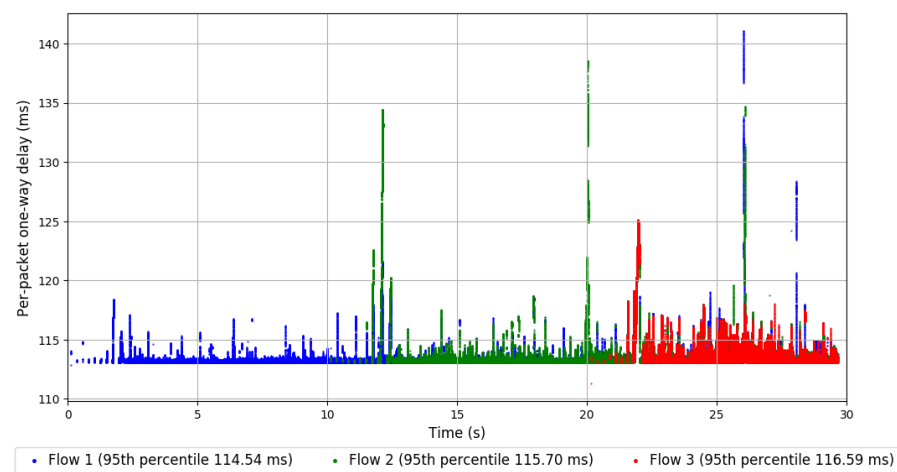
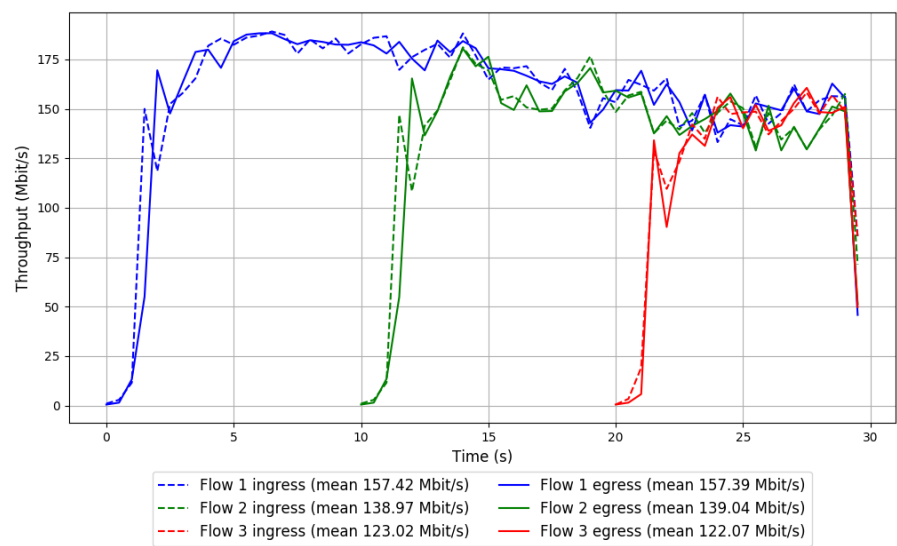
-- Flow 3:

Average throughput: 122.07 Mbit/s

95th percentile per-packet one-way delay: 116.595 ms

Loss rate: 3.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-22 03:01:55

End at: 2017-09-22 03:02:25

Below is generated by plot.py at 2017-09-22 06:05:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.08 Mbit/s

95th percentile per-packet one-way delay: 117.339 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 159.25 Mbit/s

95th percentile per-packet one-way delay: 116.255 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 151.33 Mbit/s

95th percentile per-packet one-way delay: 117.526 ms

Loss rate: 1.01%

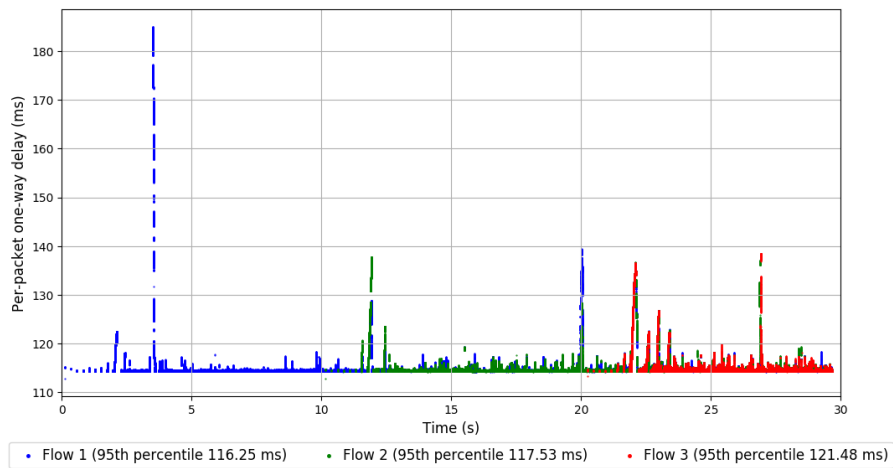
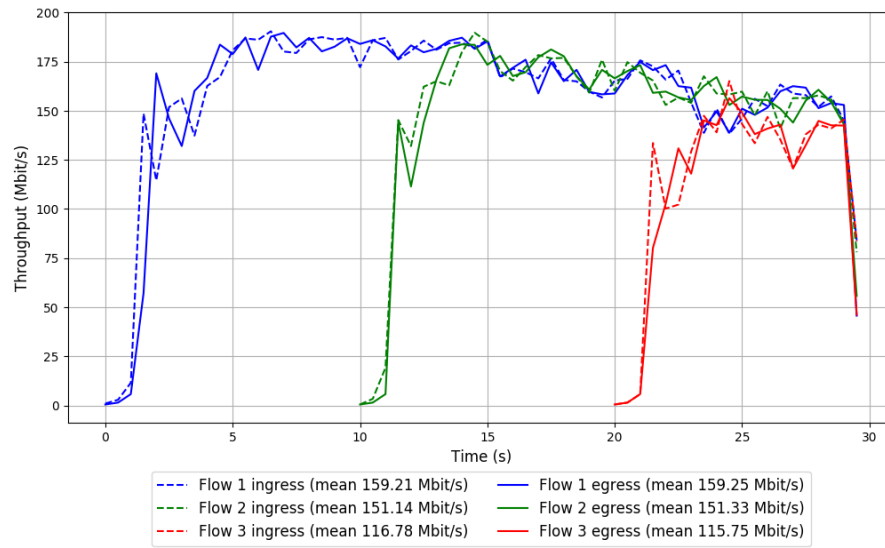
-- Flow 3:

Average throughput: 115.75 Mbit/s

95th percentile per-packet one-way delay: 121.476 ms

Loss rate: 3.18%

Run 10: Report of Indigo — Data Link

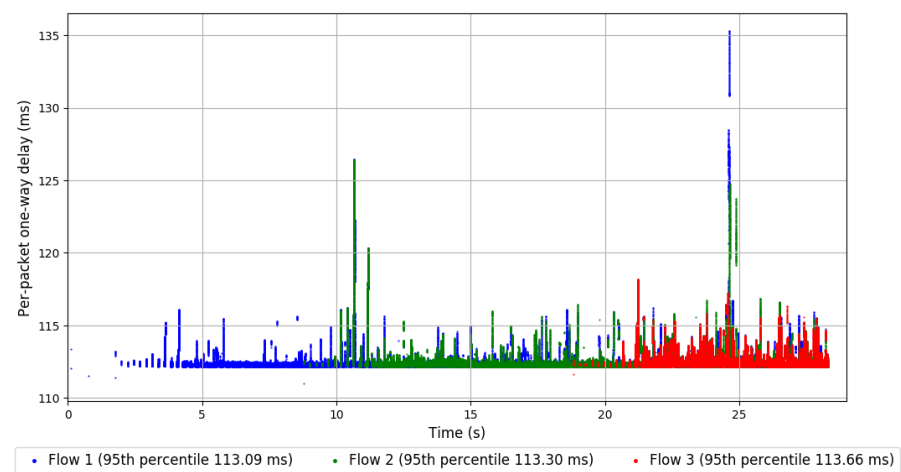
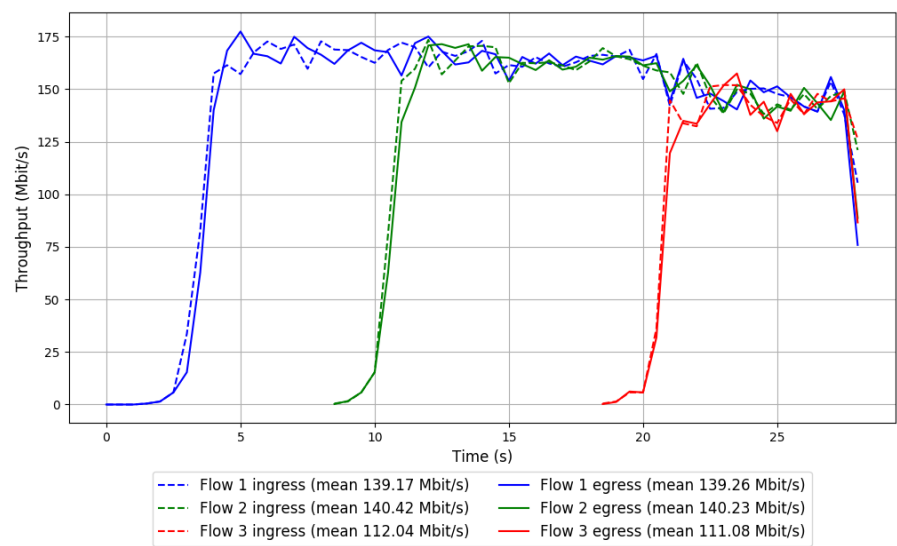


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-22 00:56:00
End at: 2017-09-22 00:56:30

# Below is generated by plot.py at 2017-09-22 06:05:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.77 Mbit/s
95th percentile per-packet one-way delay: 113.292 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 139.26 Mbit/s
95th percentile per-packet one-way delay: 113.091 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 140.23 Mbit/s
95th percentile per-packet one-way delay: 113.301 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 111.08 Mbit/s
95th percentile per-packet one-way delay: 113.656 ms
Loss rate: 3.15%
```


Run 1: Report of Indigo-calib — Data Link

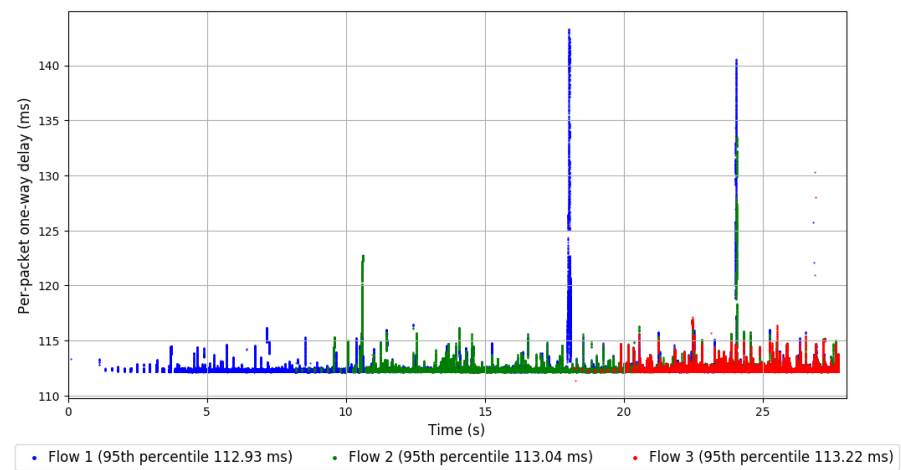
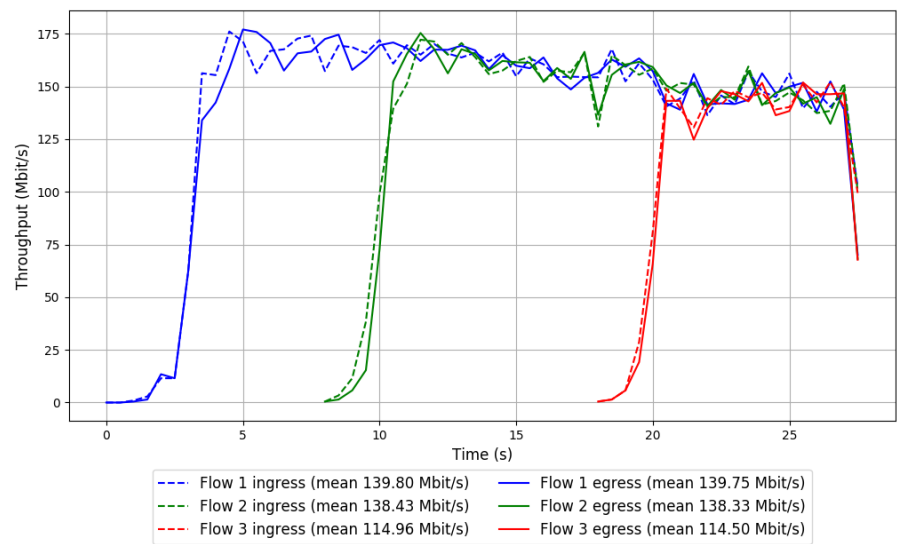


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-22 01:09:26
End at: 2017-09-22 01:09:56

# Below is generated by plot.py at 2017-09-22 06:05:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.84 Mbit/s
95th percentile per-packet one-way delay: 113.019 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 139.75 Mbit/s
95th percentile per-packet one-way delay: 112.930 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 138.33 Mbit/s
95th percentile per-packet one-way delay: 113.041 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 114.50 Mbit/s
95th percentile per-packet one-way delay: 113.215 ms
Loss rate: 2.70%
```

Run 2: Report of Indigo-calib — Data Link

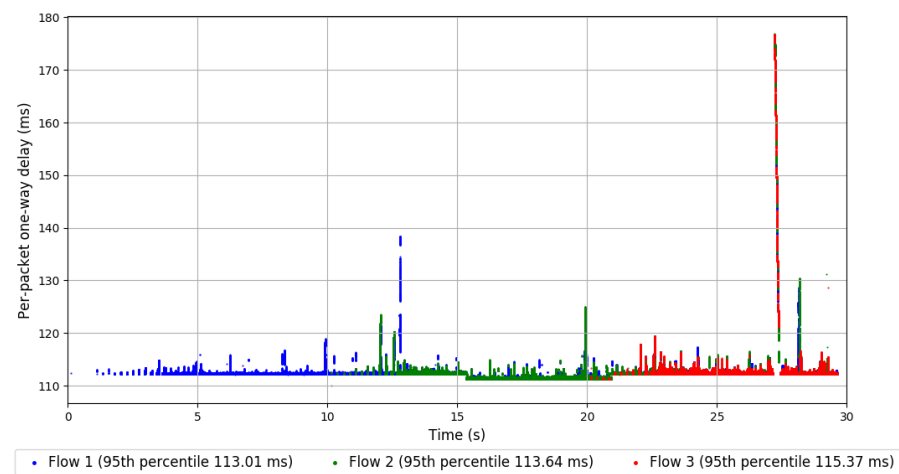
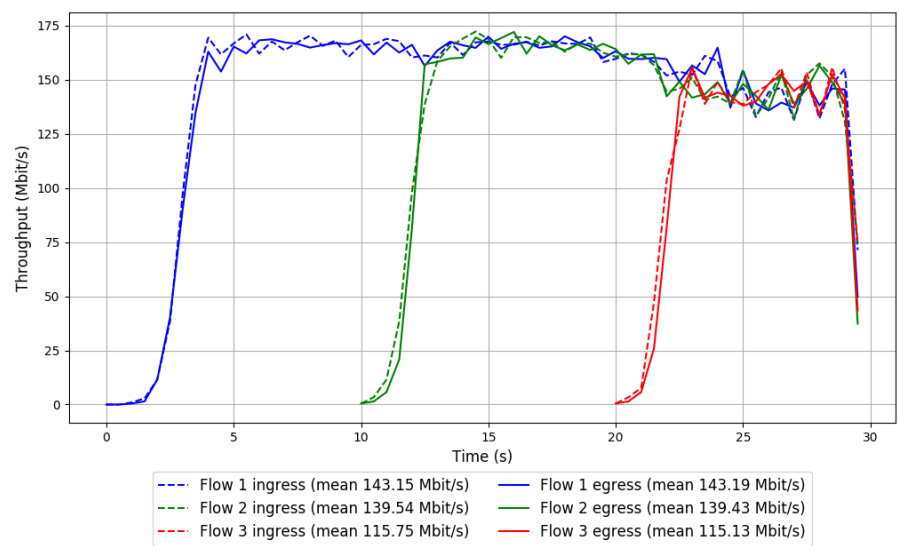


```
Run 3: Statistics of Indigo-calib

Start at: 2017-09-22 01:22:30
End at: 2017-09-22 01:23:00

# Below is generated by plot.py at 2017-09-22 06:05:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.20 Mbit/s
95th percentile per-packet one-way delay: 113.445 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 143.19 Mbit/s
95th percentile per-packet one-way delay: 113.012 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 139.43 Mbit/s
95th percentile per-packet one-way delay: 113.642 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 115.13 Mbit/s
95th percentile per-packet one-way delay: 115.373 ms
Loss rate: 2.85%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-22 01:36:00

End at: 2017-09-22 01:36:30

Below is generated by plot.py at 2017-09-22 06:06:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.96 Mbit/s

95th percentile per-packet one-way delay: 114.712 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 122.38 Mbit/s

95th percentile per-packet one-way delay: 114.427 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 129.20 Mbit/s

95th percentile per-packet one-way delay: 114.749 ms

Loss rate: 1.16%

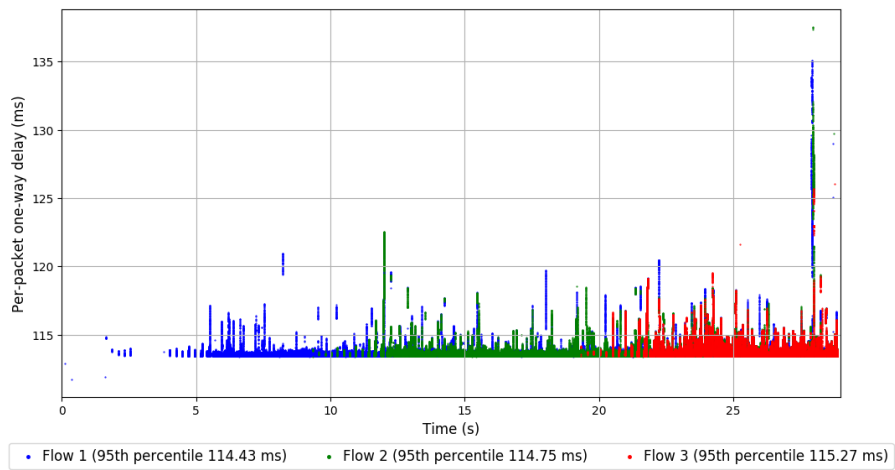
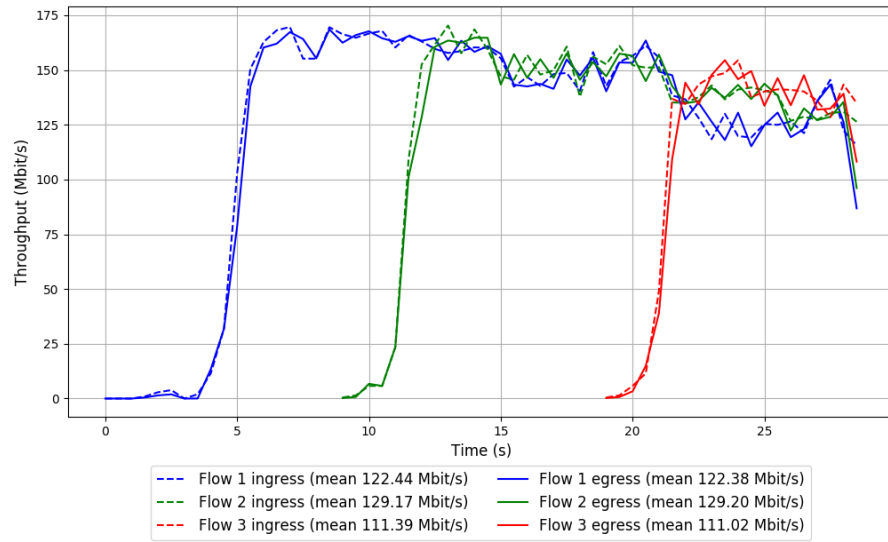
-- Flow 3:

Average throughput: 111.02 Mbit/s

95th percentile per-packet one-way delay: 115.272 ms

Loss rate: 2.72%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-22 01:49:19

End at: 2017-09-22 01:49:49

Below is generated by plot.py at 2017-09-22 06:08:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.01 Mbit/s

95th percentile per-packet one-way delay: 114.572 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 131.13 Mbit/s

95th percentile per-packet one-way delay: 114.283 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 127.03 Mbit/s

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

Loss rate: 1.64%

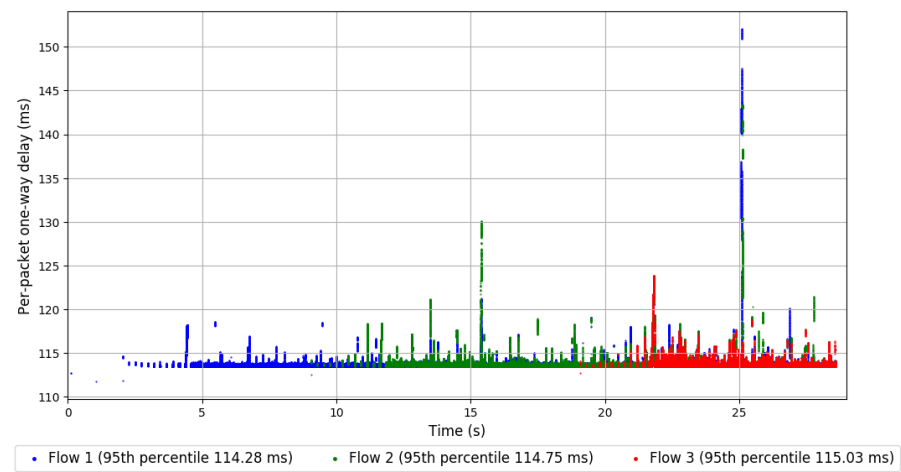
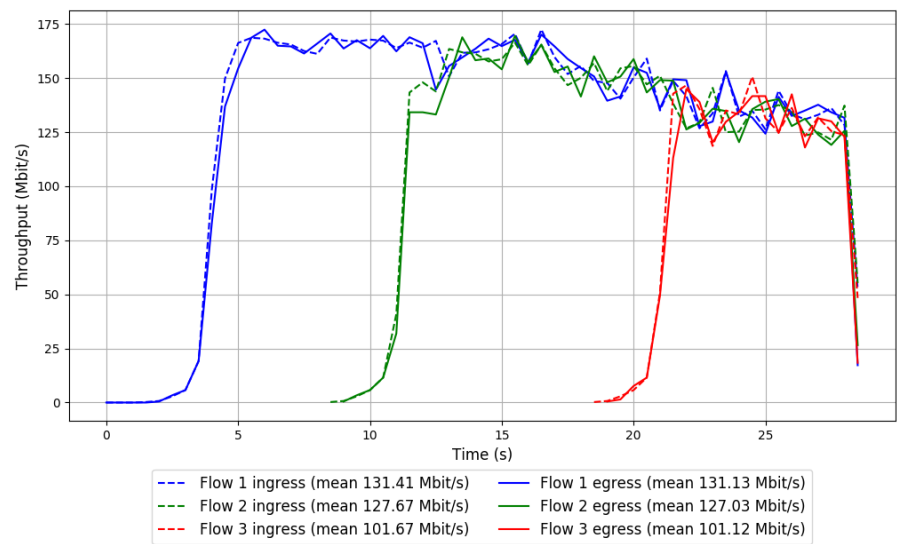
-- Flow 3:

Average throughput: 101.12 Mbit/s

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

Loss rate: 2.86%

Run 5: Report of Indigo-calib — Data Link

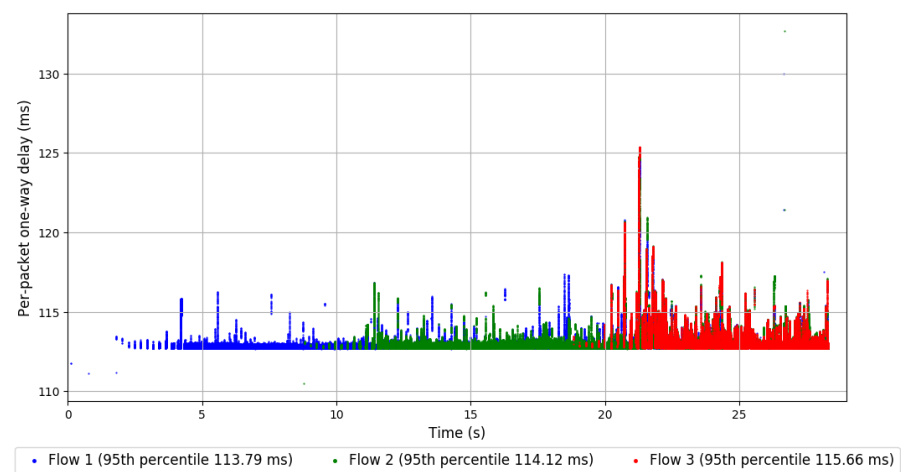
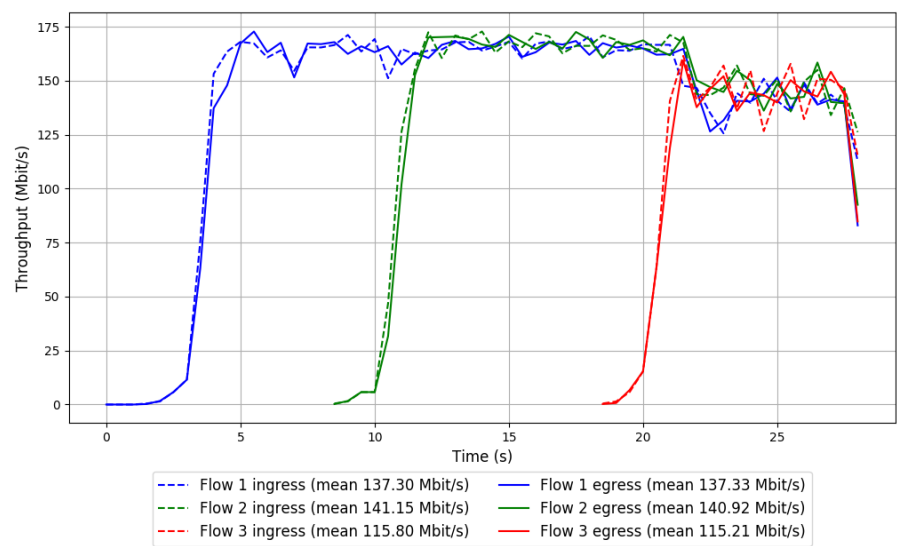


```
Run 6: Statistics of Indigo-calib

Start at: 2017-09-22 02:03:00
End at: 2017-09-22 02:03:30

# Below is generated by plot.py at 2017-09-22 06:08:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.58 Mbit/s
95th percentile per-packet one-way delay: 114.182 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 137.33 Mbit/s
95th percentile per-packet one-way delay: 113.791 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 140.92 Mbit/s
95th percentile per-packet one-way delay: 114.123 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 115.21 Mbit/s
95th percentile per-packet one-way delay: 115.657 ms
Loss rate: 2.85%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-22 02:16:29

End at: 2017-09-22 02:16:59

Below is generated by plot.py at 2017-09-22 06:08:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.15 Mbit/s

95th percentile per-packet one-way delay: 113.896 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 127.06 Mbit/s

95th percentile per-packet one-way delay: 113.777 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 127.10 Mbit/s

95th percentile per-packet one-way delay: 113.956 ms

Loss rate: 1.13%

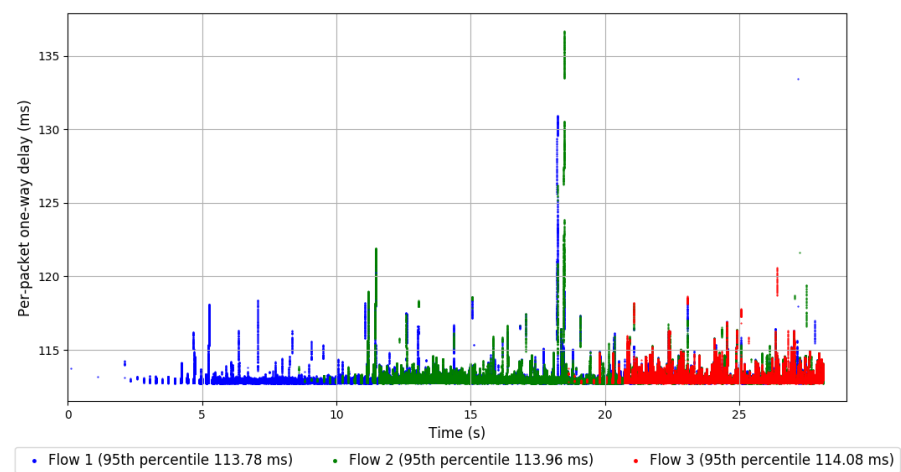
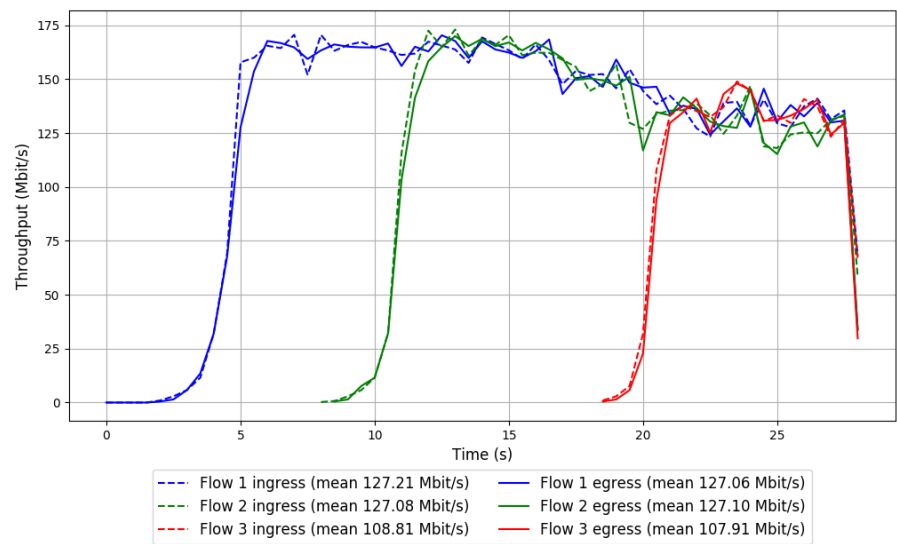
-- Flow 3:

Average throughput: 107.91 Mbit/s

95th percentile per-packet one-way delay: 114.082 ms

Loss rate: 3.18%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-22 02:29:38

End at: 2017-09-22 02:30:08

Below is generated by plot.py at 2017-09-22 06:08:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.36 Mbit/s

95th percentile per-packet one-way delay: 113.851 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 137.28 Mbit/s

95th percentile per-packet one-way delay: 113.484 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 137.98 Mbit/s

95th percentile per-packet one-way delay: 114.026 ms

Loss rate: 1.16%

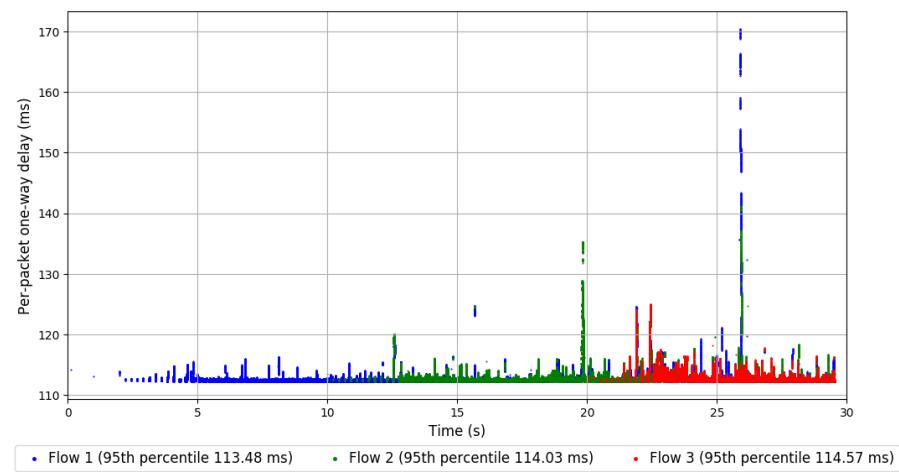
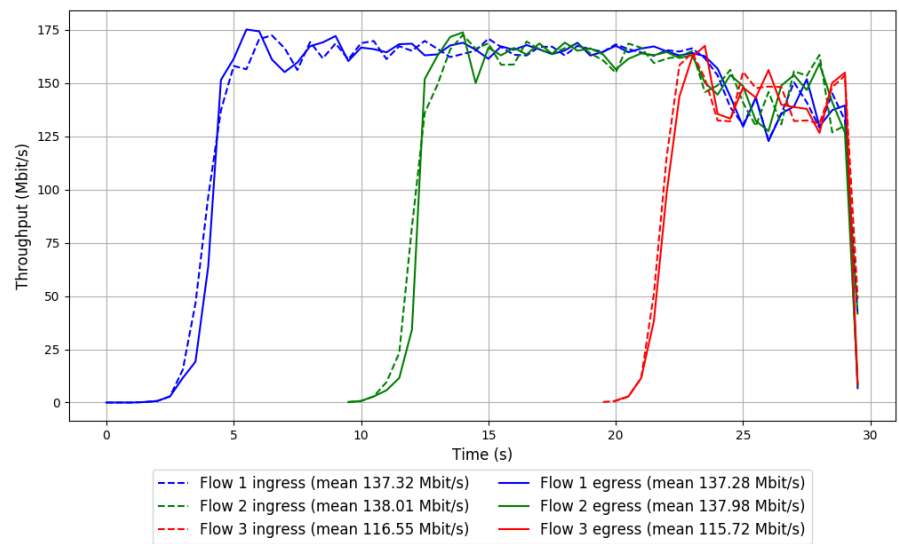
-- Flow 3:

Average throughput: 115.72 Mbit/s

95th percentile per-packet one-way delay: 114.574 ms

Loss rate: 3.02%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-22 02:42:56

End at: 2017-09-22 02:43:26

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.66 Mbit/s

95th percentile per-packet one-way delay: 114.061 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 142.70 Mbit/s

95th percentile per-packet one-way delay: 113.594 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 139.64 Mbit/s

95th percentile per-packet one-way delay: 114.183 ms

Loss rate: 1.19%

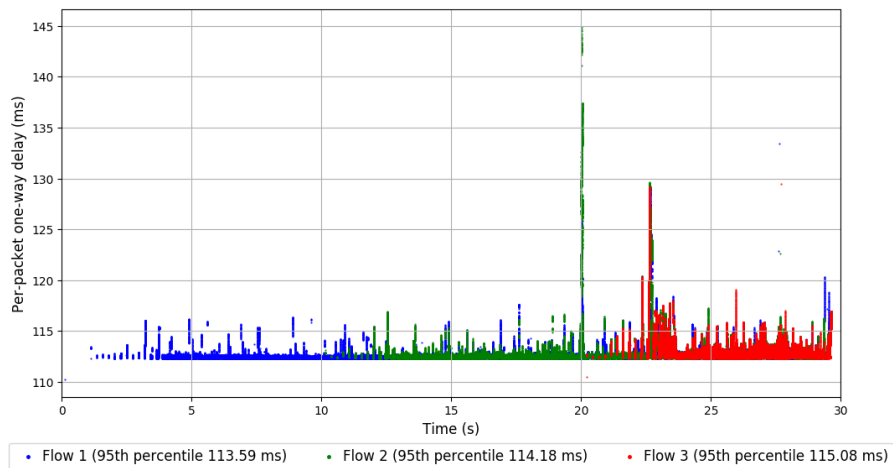
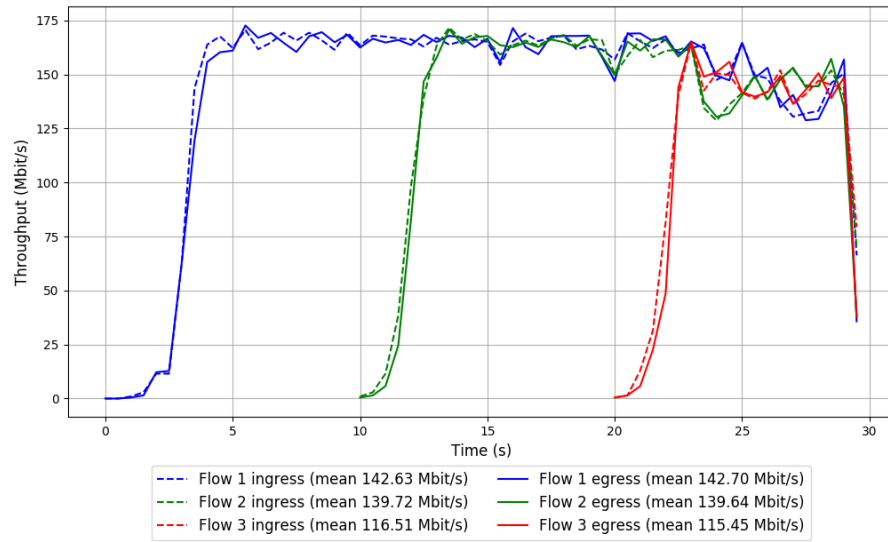
-- Flow 3:

Average throughput: 115.45 Mbit/s

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

Loss rate: 3.18%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-22 02:56:39

End at: 2017-09-22 02:57:09

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.45 Mbit/s

95th percentile per-packet one-way delay: 116.481 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 138.38 Mbit/s

95th percentile per-packet one-way delay: 115.972 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 141.37 Mbit/s

95th percentile per-packet one-way delay: 116.680 ms

Loss rate: 0.96%

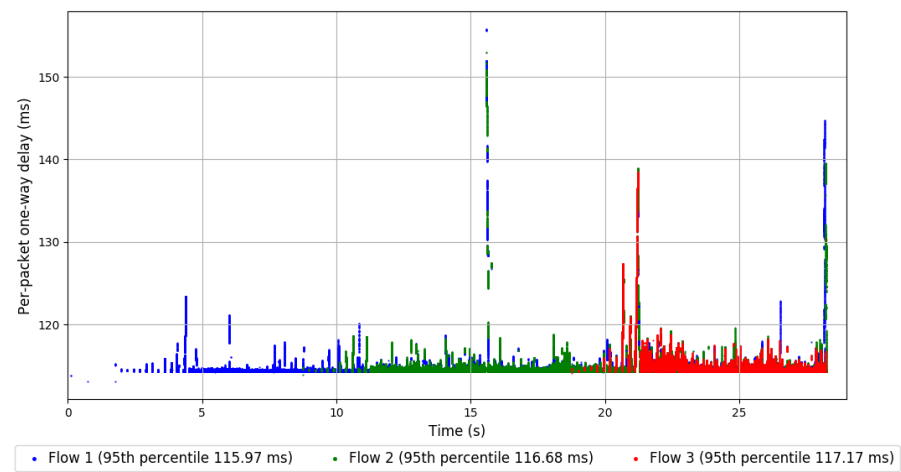
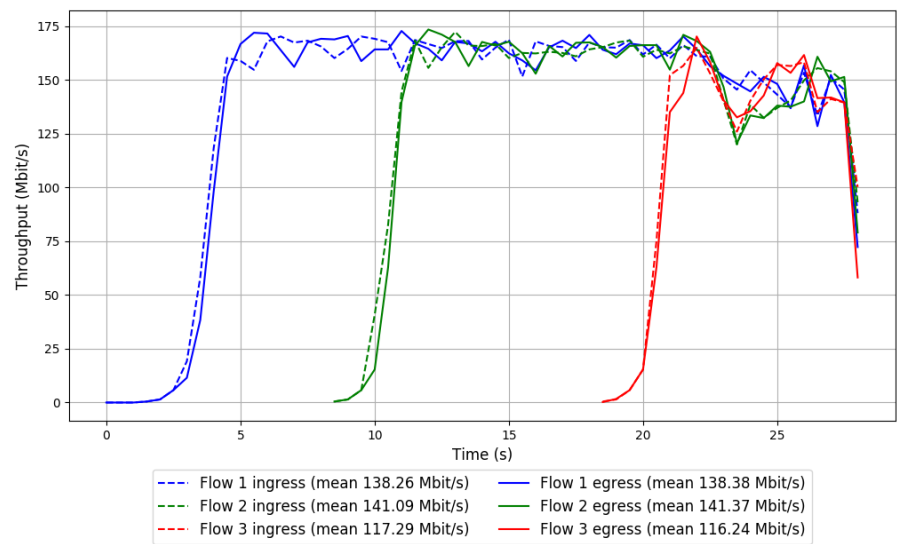
-- Flow 3:

Average throughput: 116.24 Mbit/s

95th percentile per-packet one-way delay: 117.168 ms

Loss rate: 3.11%

Run 10: Report of Indigo-calib — Data Link

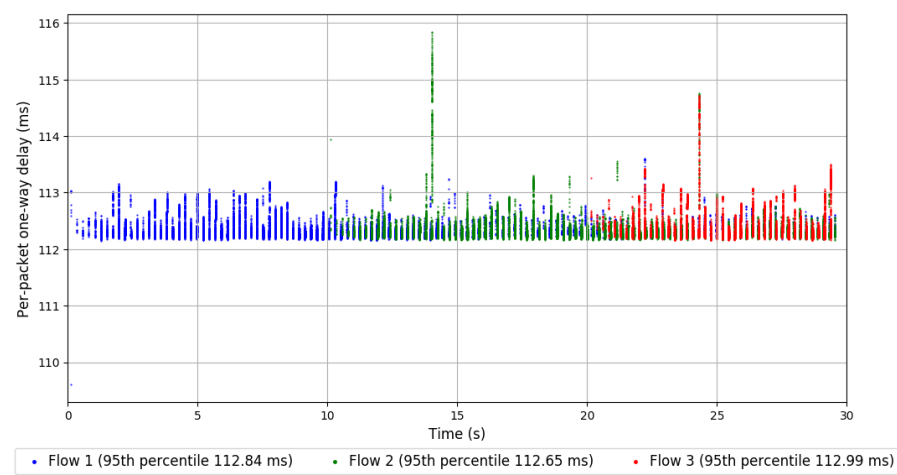
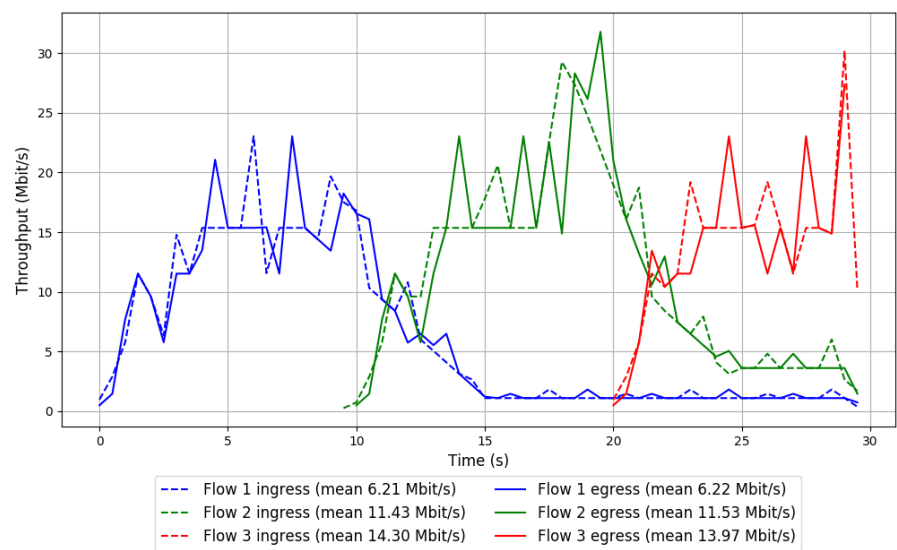


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-22 00:59:17
End at: 2017-09-22 00:59:47

# Below is generated by plot.py at 2017-09-22 06:08:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 112.856 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 112.842 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 112.648 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 112.992 ms
Loss rate: 4.77%
```

Run 1: Report of Indigo-delay — Data Link

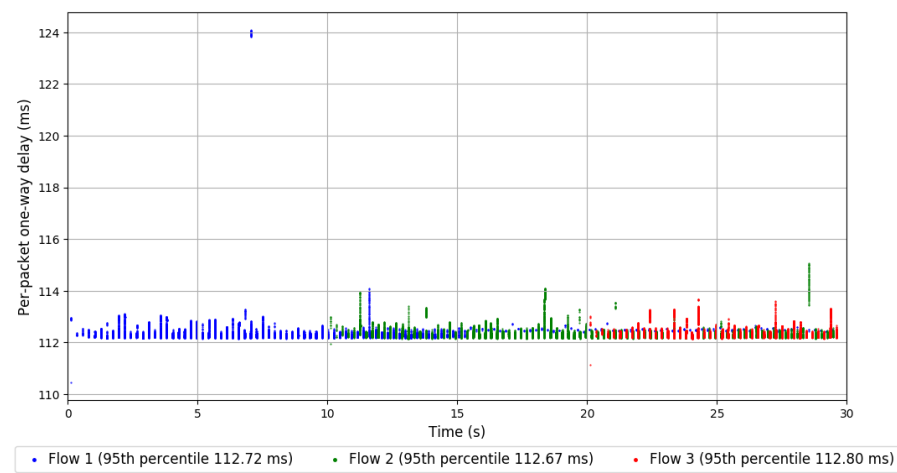
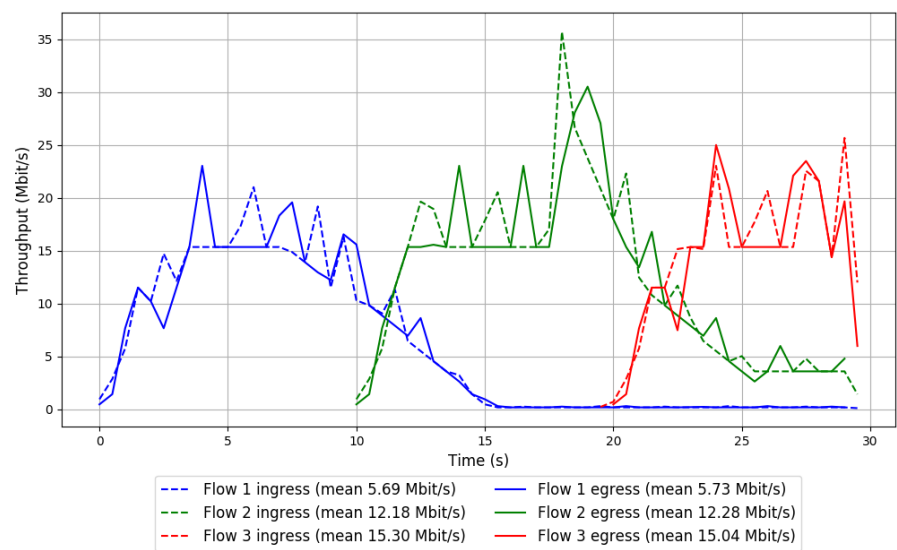


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-22 01:12:12
End at: 2017-09-22 01:12:42

# Below is generated by plot.py at 2017-09-22 06:08:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 112.715 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 112.723 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 112.671 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 15.04 Mbit/s
95th percentile per-packet one-way delay: 112.801 ms
Loss rate: 4.03%
```

Run 2: Report of Indigo-delay — Data Link



Run 3: Statistics of Indigo-delay

Start at: 2017-09-22 01:25:39

End at: 2017-09-22 01:26:09

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.62 Mbit/s

95th percentile per-packet one-way delay: 114.217 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 114.108 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 0.38%

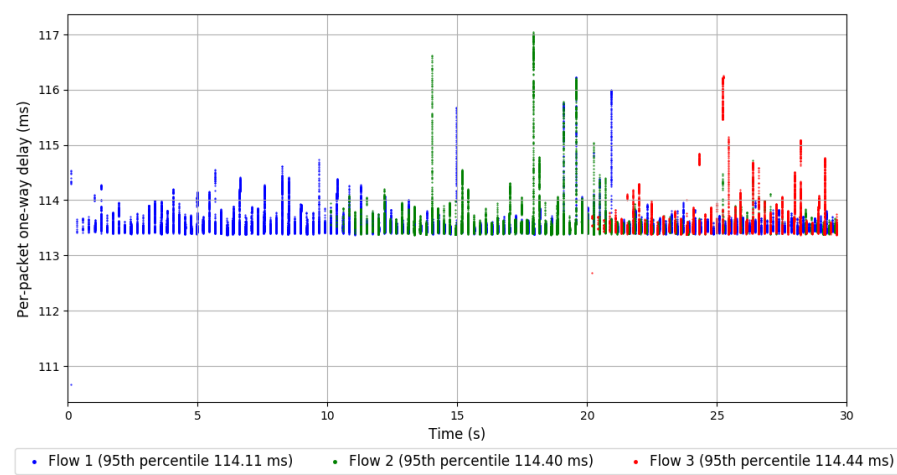
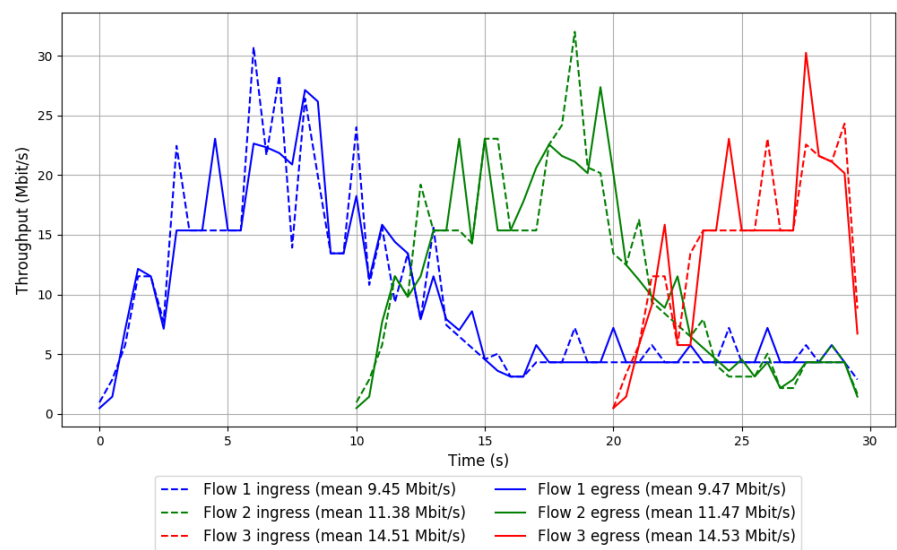
-- Flow 3:

Average throughput: 14.53 Mbit/s

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

Loss rate: 2.22%

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-22 01:38:59

End at: 2017-09-22 01:39:29

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 114.362 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 114.461 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 114.458 ms

Loss rate: 0.07%

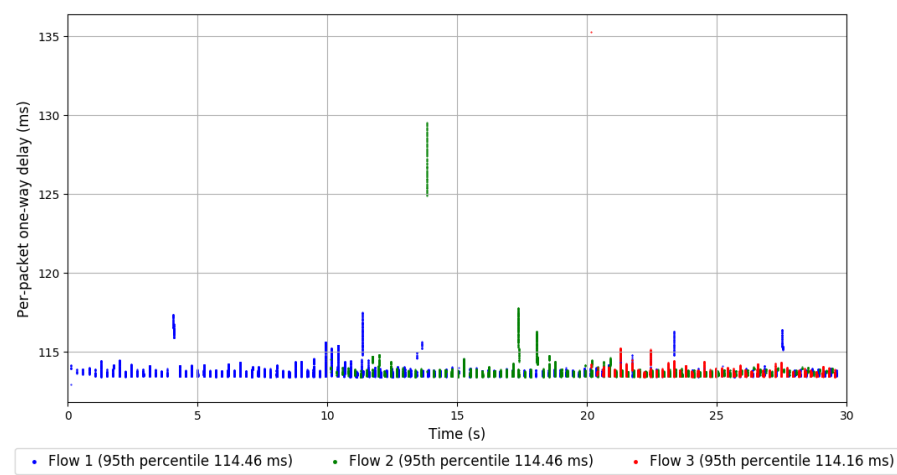
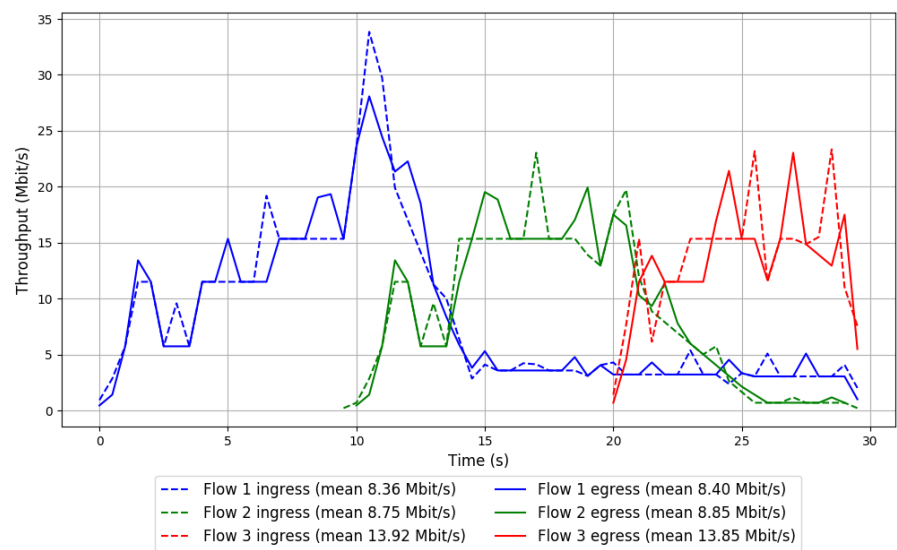
-- Flow 3:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 114.162 ms

Loss rate: 2.82%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-22 01:52:23

End at: 2017-09-22 01:52:53

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 114.360 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 114.552 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 114.273 ms

Loss rate: 2.38%

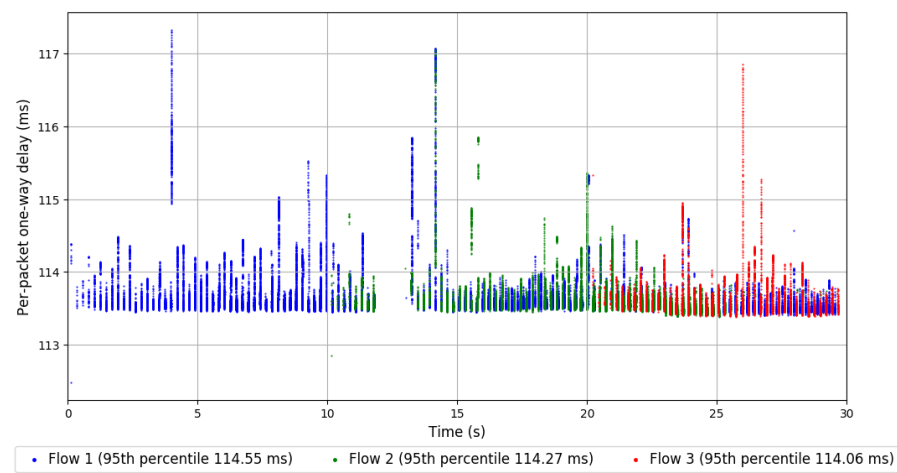
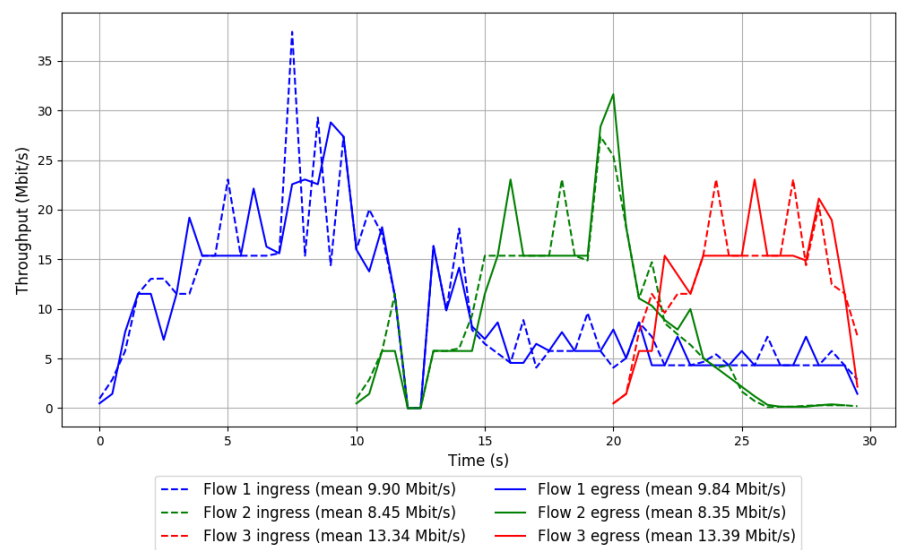
-- Flow 3:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 114.057 ms

Loss rate: 1.99%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-22 02:06:19

End at: 2017-09-22 02:06:49

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 113.593 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 113.491 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 113.423 ms

Loss rate: 0.60%

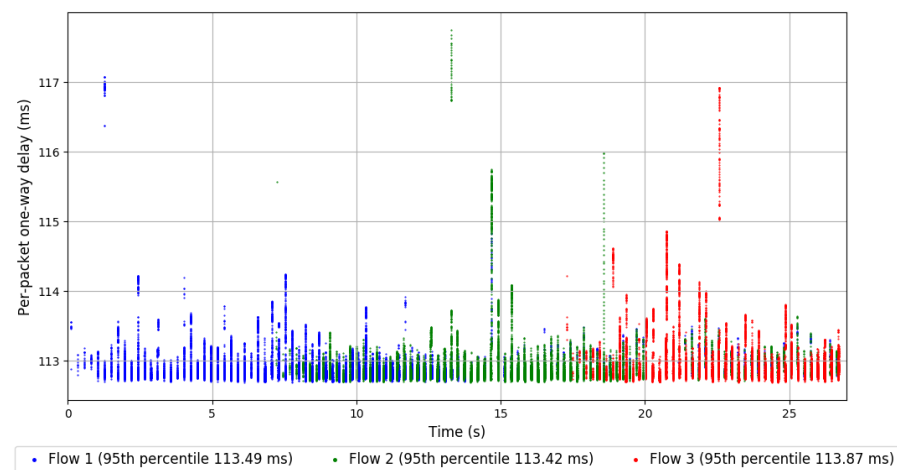
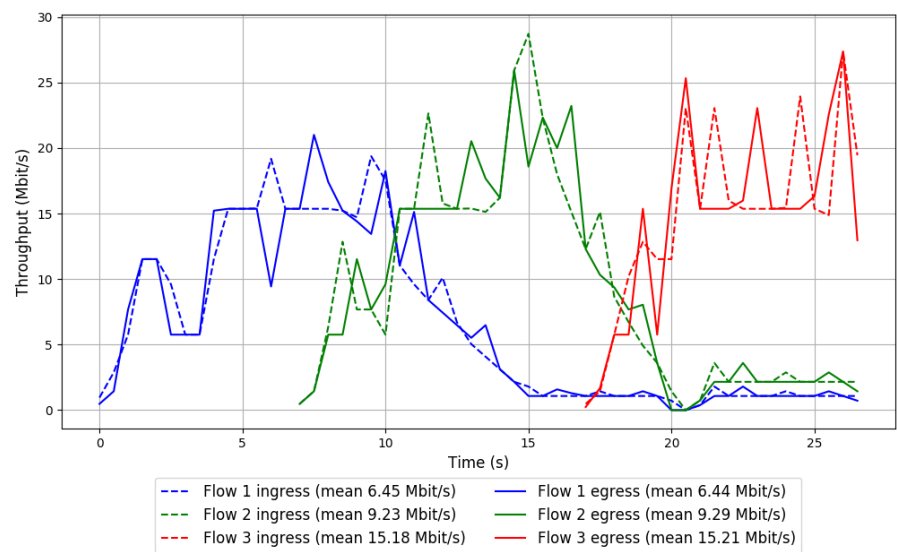
-- Flow 3:

Average throughput: 15.21 Mbit/s

95th percentile per-packet one-way delay: 113.870 ms

Loss rate: 2.21%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-22 02:19:15

End at: 2017-09-22 02:19:45

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 113.409 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 113.390 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 113.620 ms

Loss rate: 0.22%

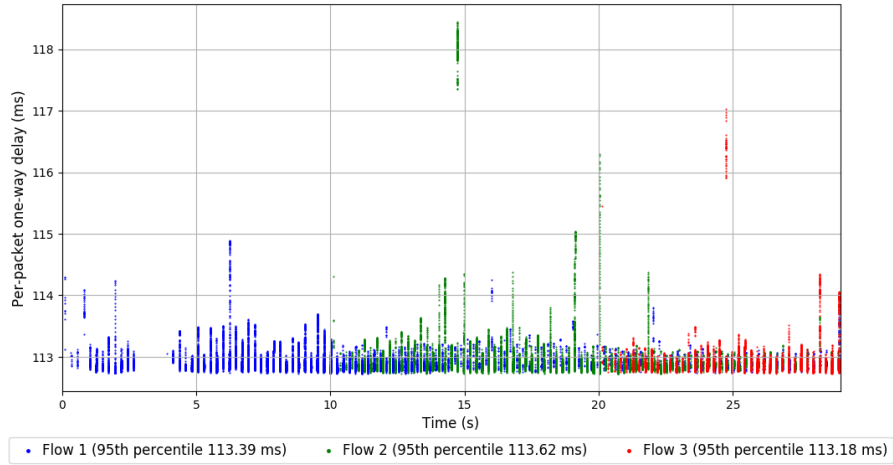
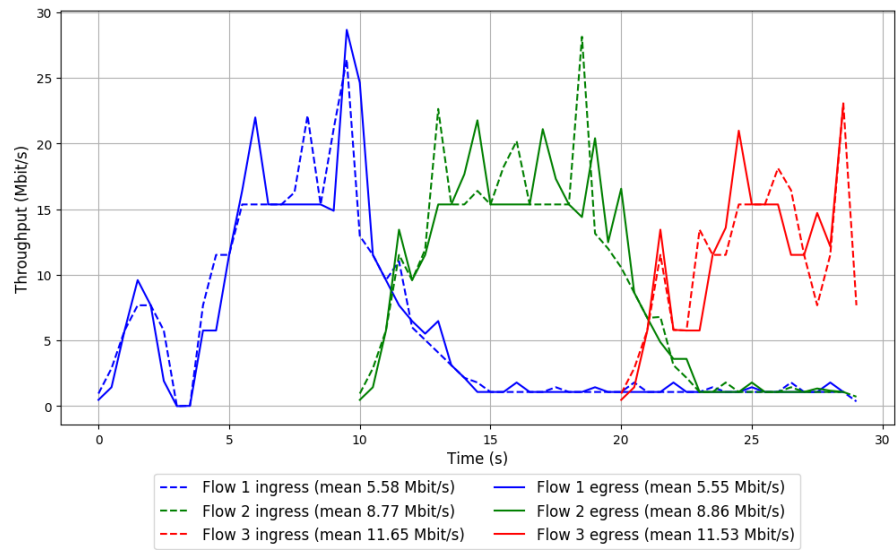
-- Flow 3:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 113.184 ms

Loss rate: 3.64%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-22 02:32:40

End at: 2017-09-22 02:33:10

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 113.092 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 9.28 Mbit/s

95th percentile per-packet one-way delay: 113.101 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 0.12%

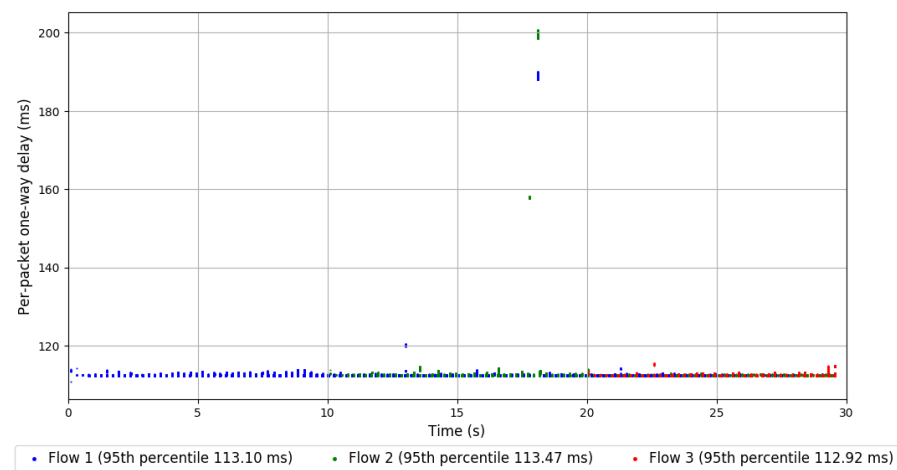
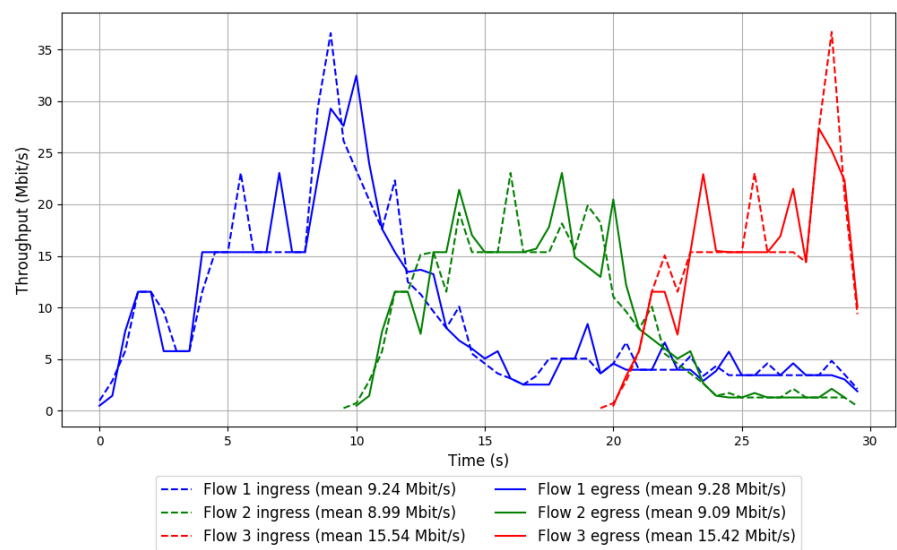
-- Flow 3:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 112.924 ms

Loss rate: 3.10%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-22 02:46:16

End at: 2017-09-22 02:46:46

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.98 Mbit/s

95th percentile per-packet one-way delay: 113.144 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 113.424 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 113.087 ms

Loss rate: 0.04%

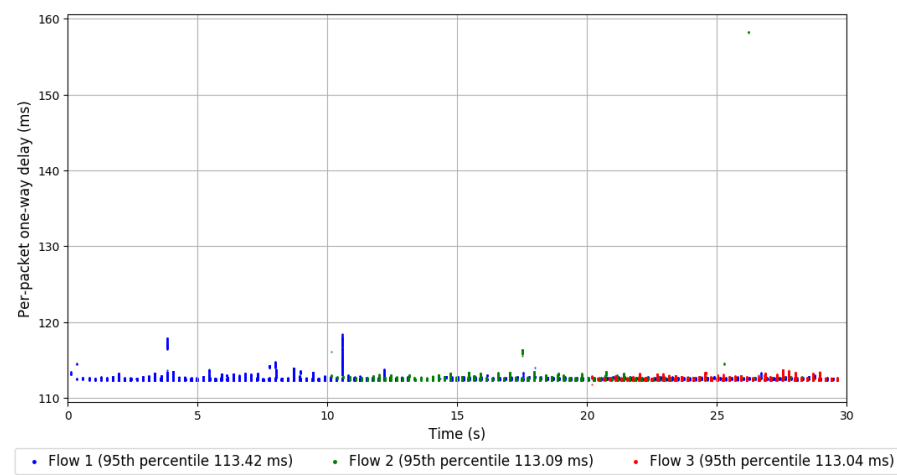
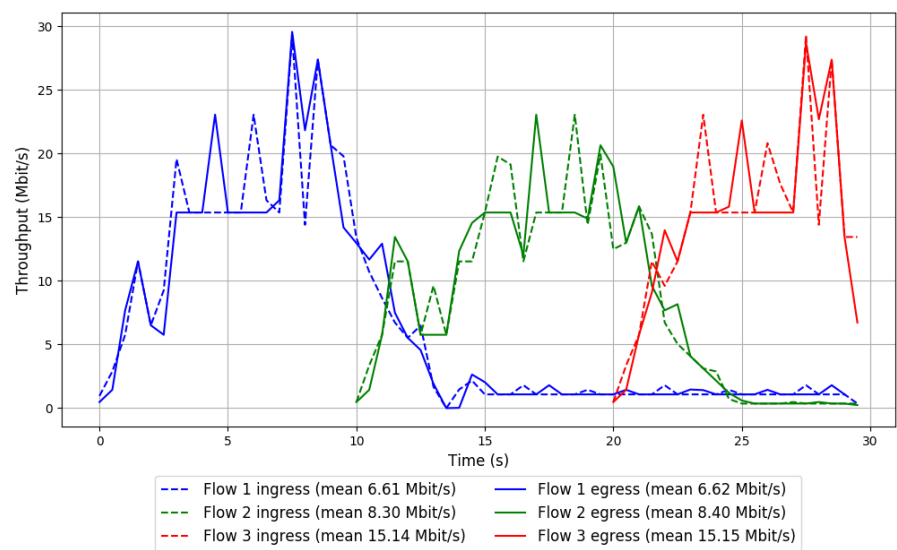
-- Flow 3:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 113.036 ms

Loss rate: 2.29%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-22 02:59:28

End at: 2017-09-22 02:59:58

Below is generated by plot.py at 2017-09-22 06:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.63 Mbit/s

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

Loss rate: 1.10%

-- Flow 1:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 114.894 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 115.126 ms

Loss rate: 0.10%

-- Flow 3:

Average throughput: 13.71 Mbit/s

95th percentile per-packet one-way delay: 115.096 ms

Loss rate: 2.22%

Run 10: Report of Indigo-delay — Data Link

