

Pantheon Report

Generated at 2018-01-26 15:15:12 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

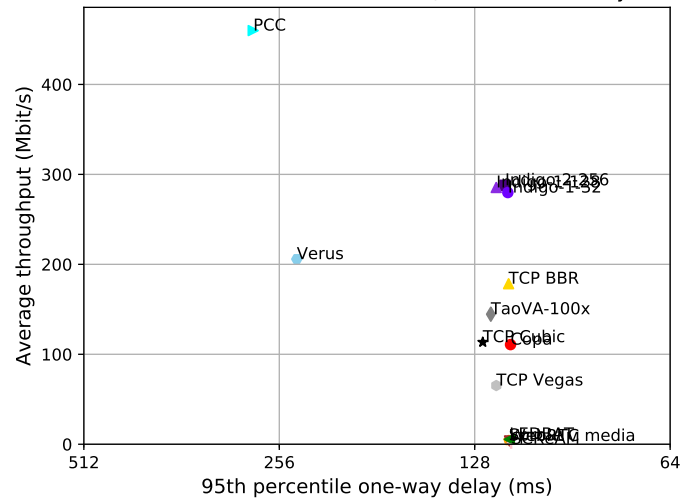
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

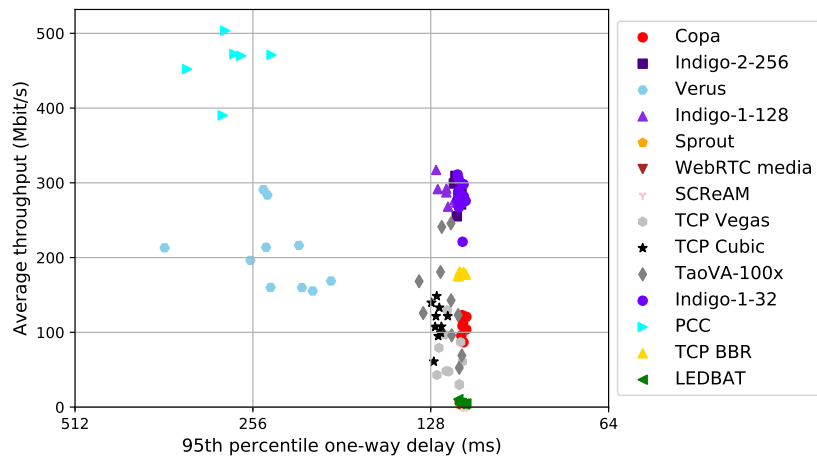
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
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	92.59	88.74	82.89	113.05	113.35	114.44	0.77	1.27	2.72
TCP Cubic	10	57.94	55.69	57.38	122.78	123.02	124.14	1.10	1.44	3.28
LEDBAT	10	2.83	3.04	1.71	113.19	113.31	113.00	1.64	2.16	3.97
PCC	6	383.89	80.83	69.51	288.84	248.14	243.69	4.89	4.00	6.67
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	9	0.22	0.20	0.21	112.15	111.70	111.74	0.69	1.10	2.15
WebRTC media	9	2.03	1.23	0.40	112.94	111.43	112.81	1.18	1.49	4.46
Sprout	10	2.33	2.03	1.74	113.44	113.40	112.86	0.89	1.74	4.31
TaoVA-100x	10	76.08	80.14	62.61	119.23	119.38	115.44	2.19	1.60	3.56
TCP Vegas	10	34.21	33.88	26.39	116.29	120.36	116.40	1.11	1.50	2.92
Verus	10	121.74	98.04	62.14	242.03	203.69	189.36	3.68	1.89	3.90
Copa	10	60.71	61.02	40.04	112.67	112.56	112.84	0.58	1.17	4.67
Indigo-2-256	10	154.84	140.51	120.24	114.31	116.61	116.18	0.80	1.14	2.84
Indigo-1-32	10	151.94	132.74	125.25	113.45	114.48	113.99	0.87	1.19	2.75
Indigo-1-128	10	147.18	141.60	130.24	117.83	120.58	117.78	0.79	1.12	2.77

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 09:14:07

End at: 2018-01-26 09:14:37

Below is generated by plot.py at 2018-01-26 14:27:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.09 Mbit/s

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

Loss rate: 1.29%

-- Flow 1:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 113.825 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 83.57 Mbit/s

95th percentile per-packet one-way delay: 116.397 ms

Loss rate: 1.31%

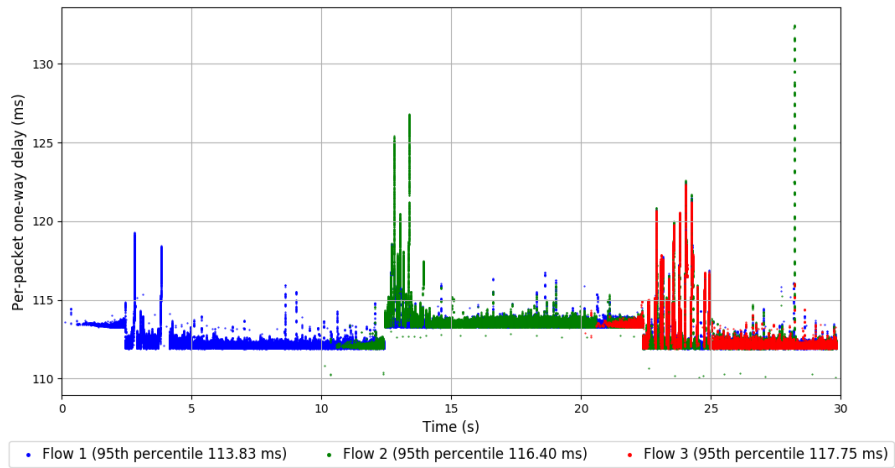
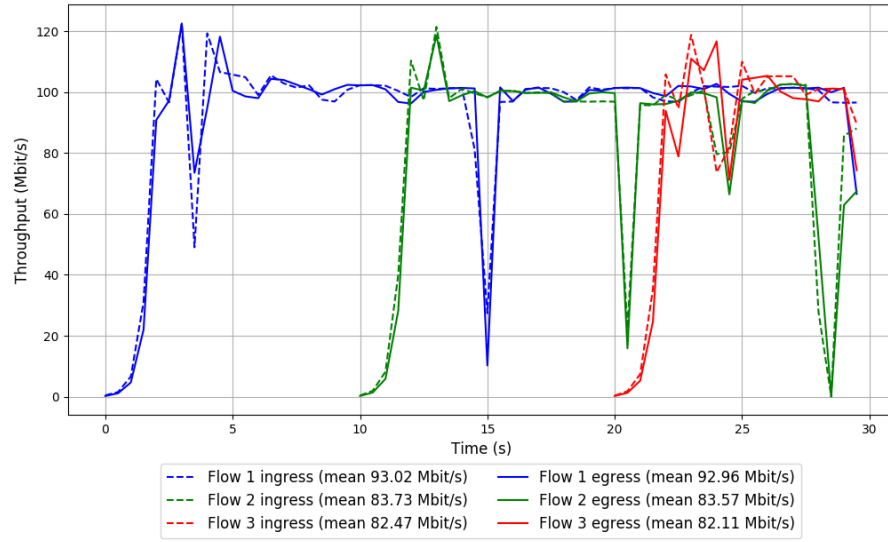
-- Flow 3:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 117.749 ms

Loss rate: 2.70%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 09:29:55

End at: 2018-01-26 09:30:25

Below is generated by plot.py at 2018-01-26 14:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.65 Mbit/s

95th percentile per-packet one-way delay: 113.691 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 113.630 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 113.693 ms

Loss rate: 1.26%

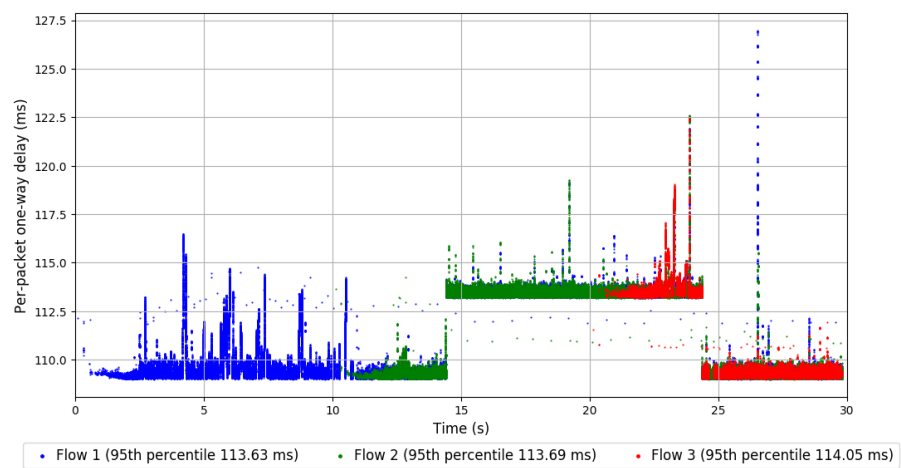
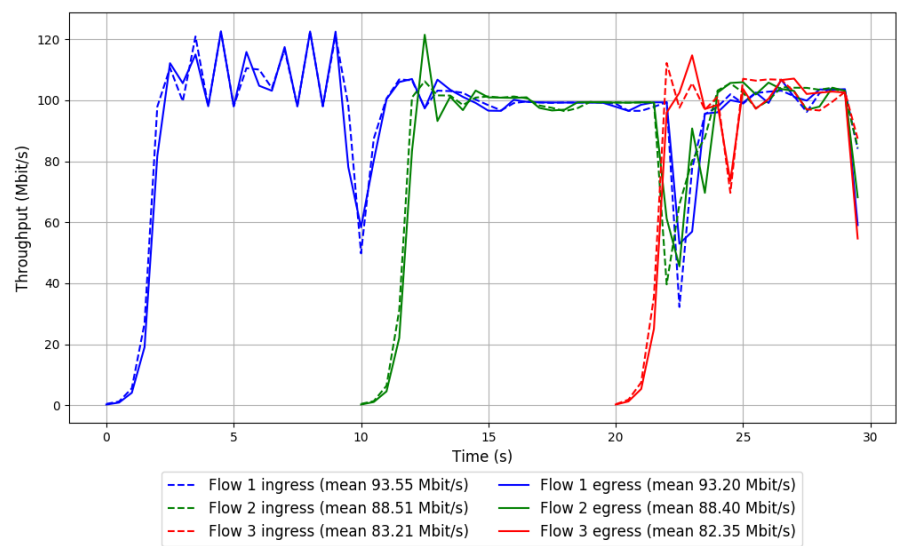
-- Flow 3:

Average throughput: 82.35 Mbit/s

95th percentile per-packet one-way delay: 114.045 ms

Loss rate: 2.90%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 09:45:37

End at: 2018-01-26 09:46:07

Below is generated by plot.py at 2018-01-26 14:27:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.02 Mbit/s

95th percentile per-packet one-way delay: 114.654 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 91.92 Mbit/s

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

Loss rate: 0.79%

-- Flow 2:

Average throughput: 91.30 Mbit/s

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

Loss rate: 1.27%

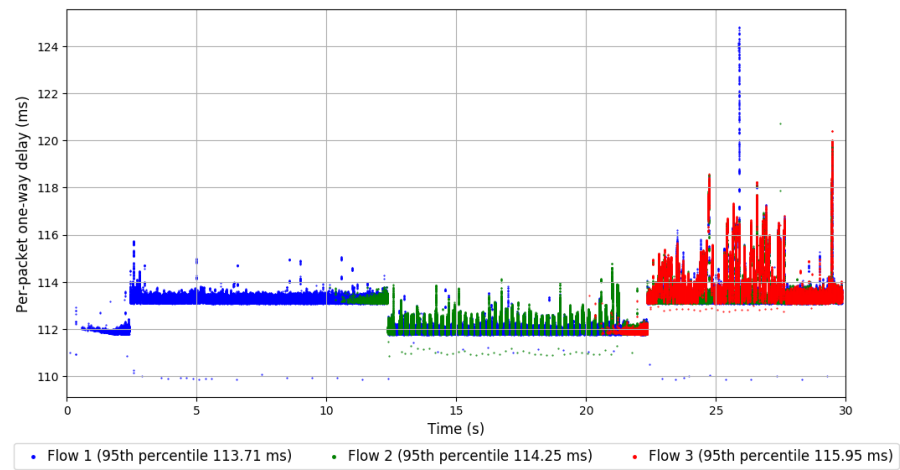
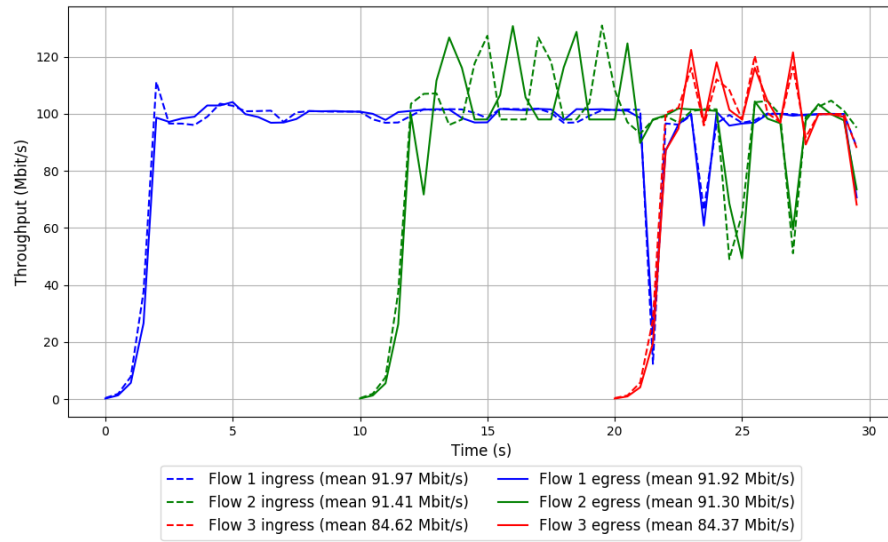
-- Flow 3:

Average throughput: 84.37 Mbit/s

95th percentile per-packet one-way delay: 115.953 ms

Loss rate: 2.56%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 10:01:48

End at: 2018-01-26 10:02:18

Below is generated by plot.py at 2018-01-26 14:27:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.94 Mbit/s

95th percentile per-packet one-way delay: 114.710 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 114.150 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 84.51 Mbit/s

95th percentile per-packet one-way delay: 114.667 ms

Loss rate: 1.31%

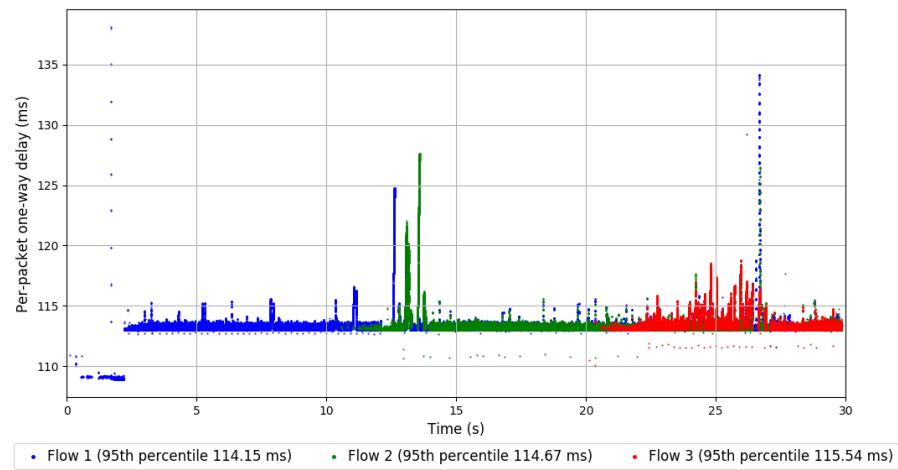
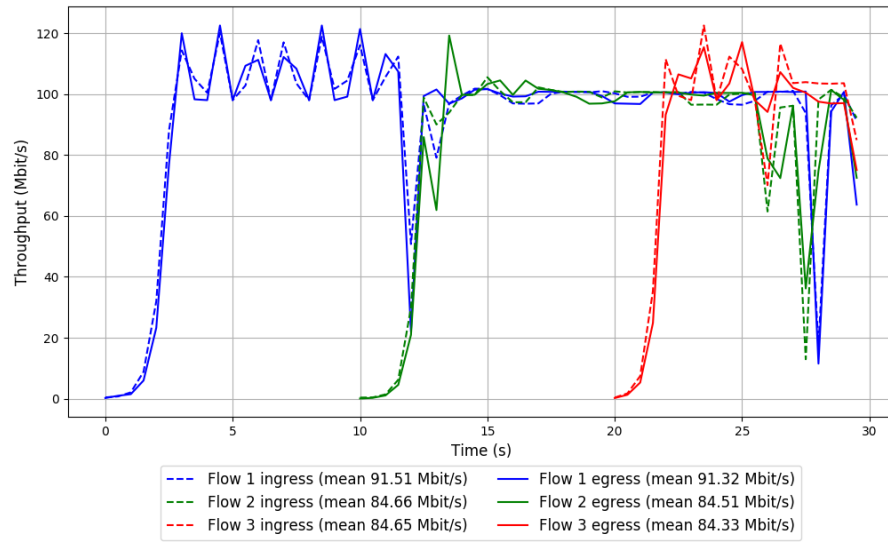
-- Flow 3:

Average throughput: 84.33 Mbit/s

95th percentile per-packet one-way delay: 115.537 ms

Loss rate: 2.59%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 10:17:34

End at: 2018-01-26 10:18:04

Below is generated by plot.py at 2018-01-26 14:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.47 Mbit/s

95th percentile per-packet one-way delay: 114.284 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 113.220 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 114.407 ms

Loss rate: 1.17%

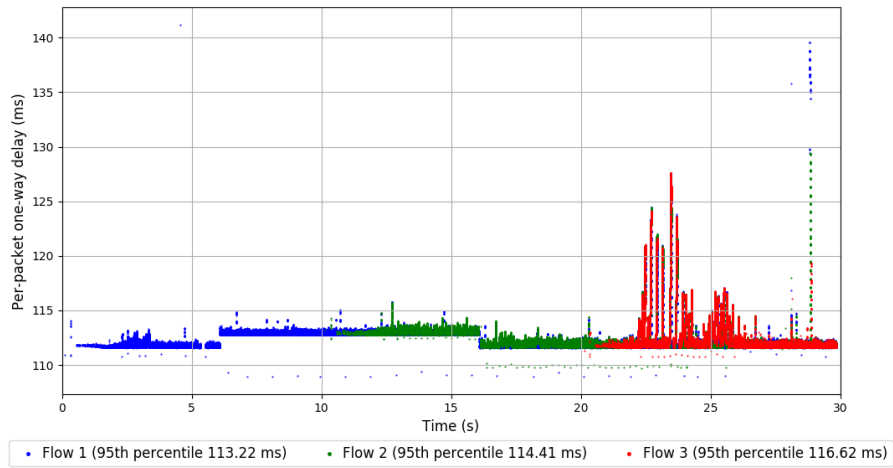
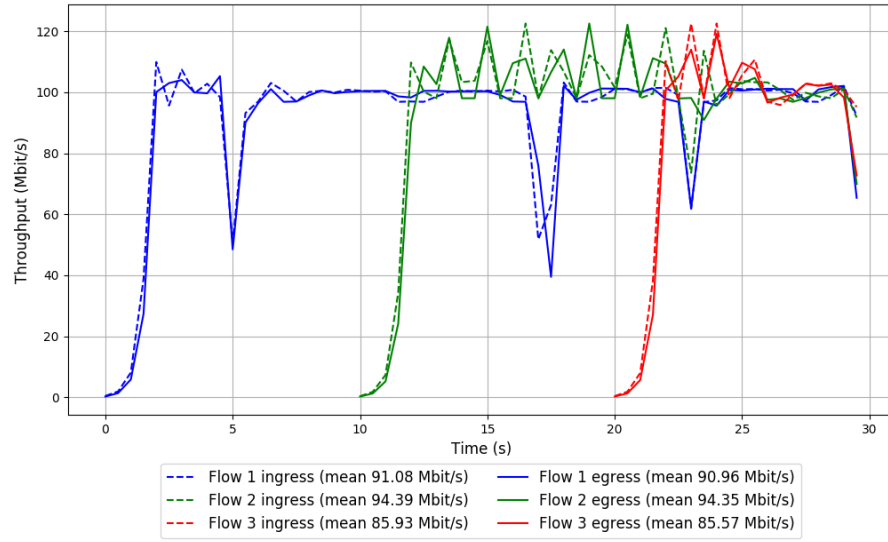
-- Flow 3:

Average throughput: 85.57 Mbit/s

95th percentile per-packet one-way delay: 116.625 ms

Loss rate: 2.73%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 10:33:31

End at: 2018-01-26 10:34:01

Below is generated by plot.py at 2018-01-26 14:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.54 Mbit/s

95th percentile per-packet one-way delay: 113.813 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 113.209 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 89.66 Mbit/s

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

Loss rate: 1.20%

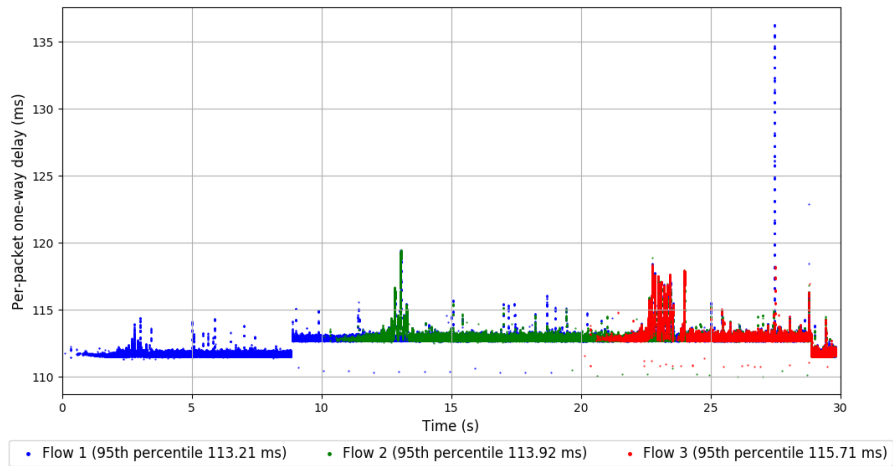
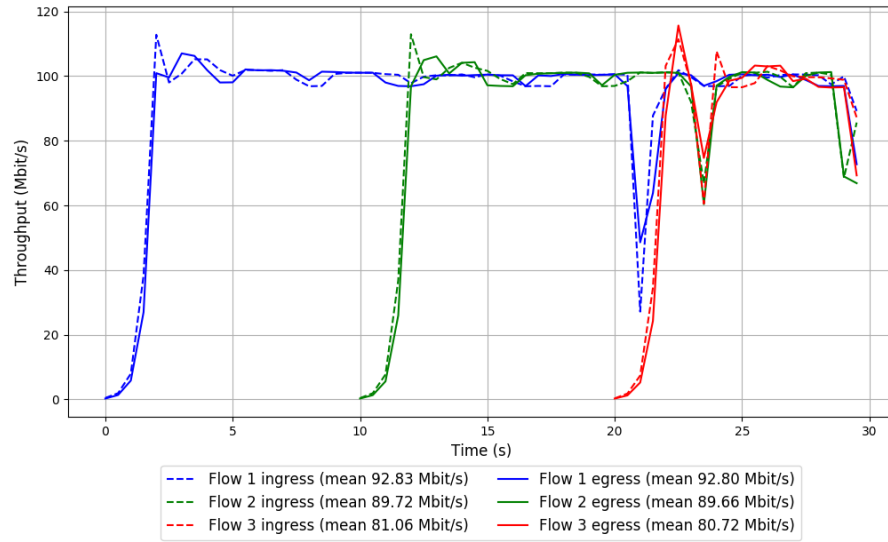
-- Flow 3:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 115.709 ms

Loss rate: 2.64%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-26 10:49:34

End at: 2018-01-26 10:50:04

Below is generated by plot.py at 2018-01-26 14:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.75 Mbit/s

95th percentile per-packet one-way delay: 112.660 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 112.738 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 88.22 Mbit/s

95th percentile per-packet one-way delay: 111.059 ms

Loss rate: 1.37%

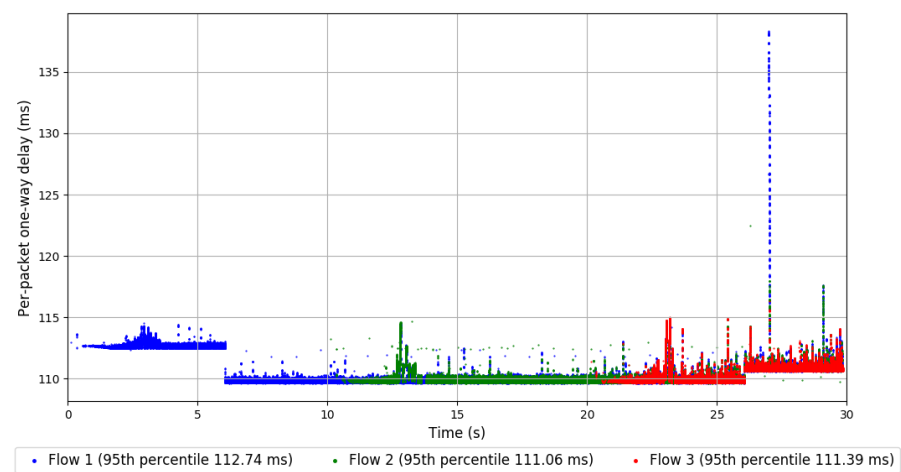
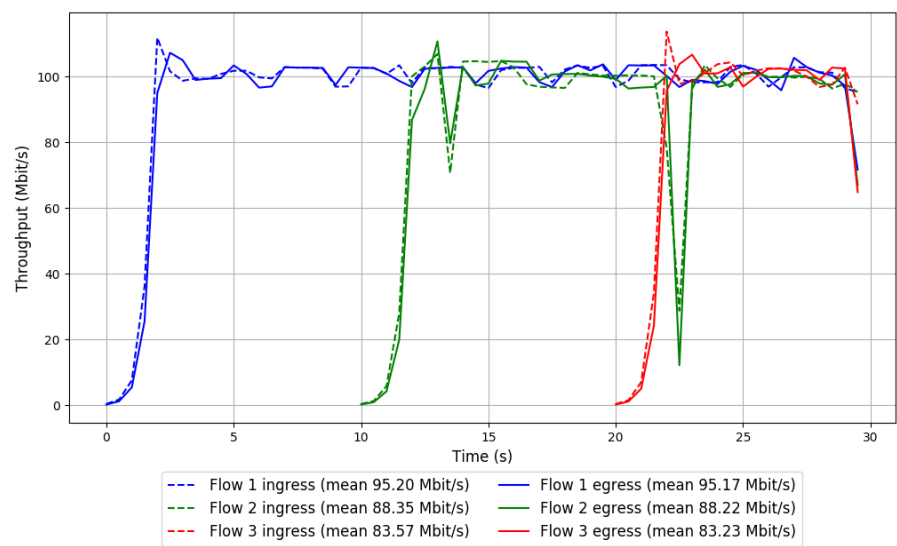
-- Flow 3:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 111.386 ms

Loss rate: 2.65%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 11:05:03

End at: 2018-01-26 11:05:33

Below is generated by plot.py at 2018-01-26 14:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.03 Mbit/s

95th percentile per-packet one-way delay: 112.667 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 92.78 Mbit/s

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

Loss rate: 0.78%

-- Flow 2:

Average throughput: 89.77 Mbit/s

95th percentile per-packet one-way delay: 111.565 ms

Loss rate: 1.22%

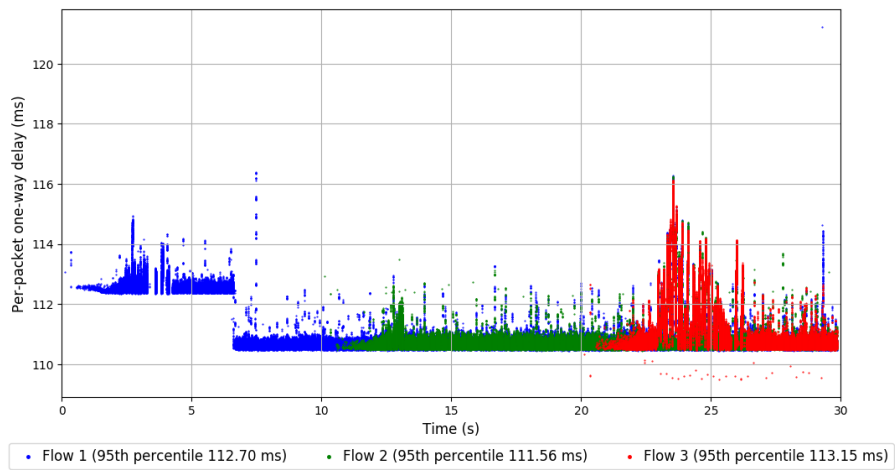
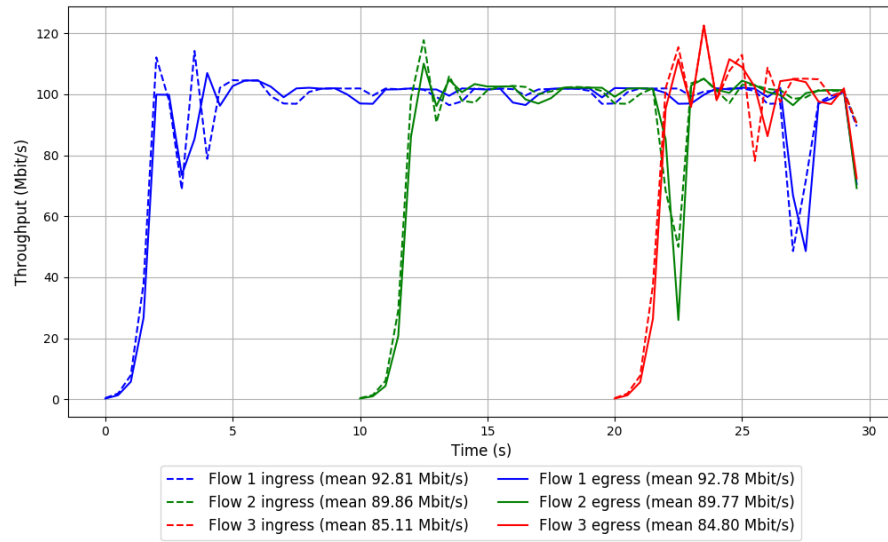
-- Flow 3:

Average throughput: 84.80 Mbit/s

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

Loss rate: 2.61%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 11:20:48

End at: 2018-01-26 11:21:18

Below is generated by plot.py at 2018-01-26 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.15 Mbit/s

95th percentile per-packet one-way delay: 111.735 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 111.668 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 90.14 Mbit/s

95th percentile per-packet one-way delay: 111.682 ms

Loss rate: 1.35%

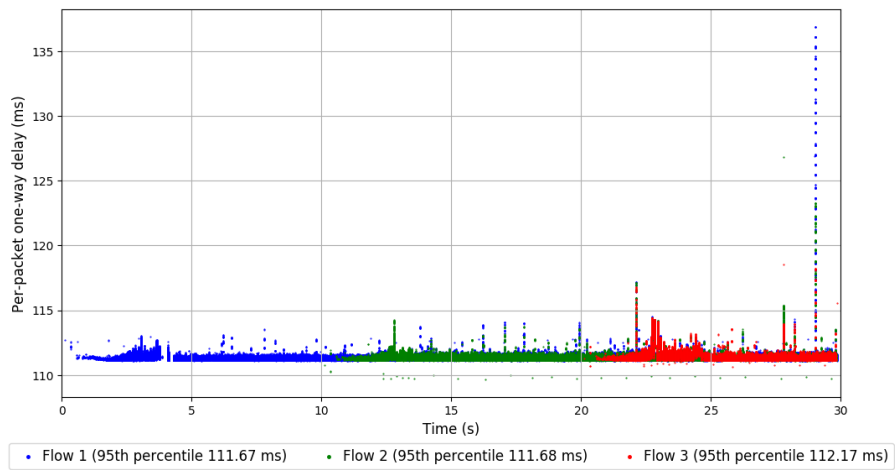
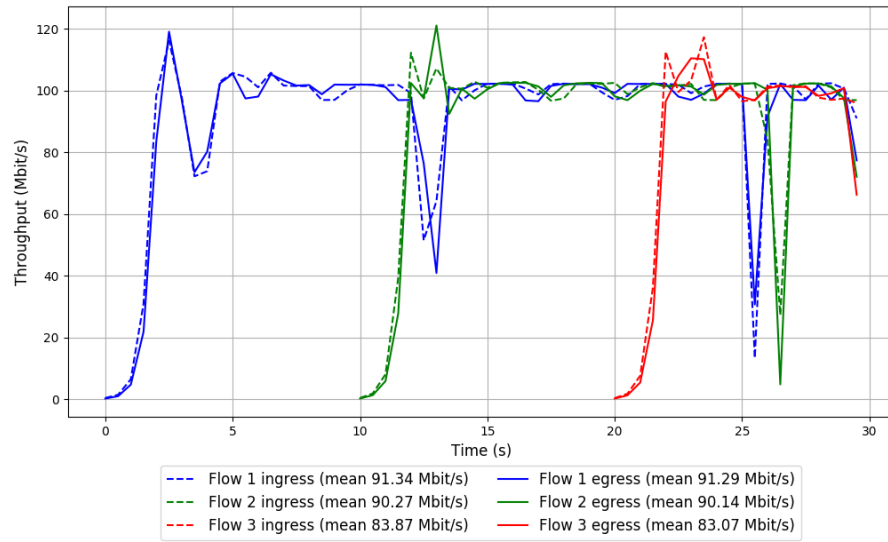
-- Flow 3:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 112.172 ms

Loss rate: 2.91%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 11:36:27

End at: 2018-01-26 11:36:57

Below is generated by plot.py at 2018-01-26 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.99 Mbit/s

95th percentile per-packet one-way delay: 111.755 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 111.685 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.46 Mbit/s

95th percentile per-packet one-way delay: 111.846 ms

Loss rate: 1.27%

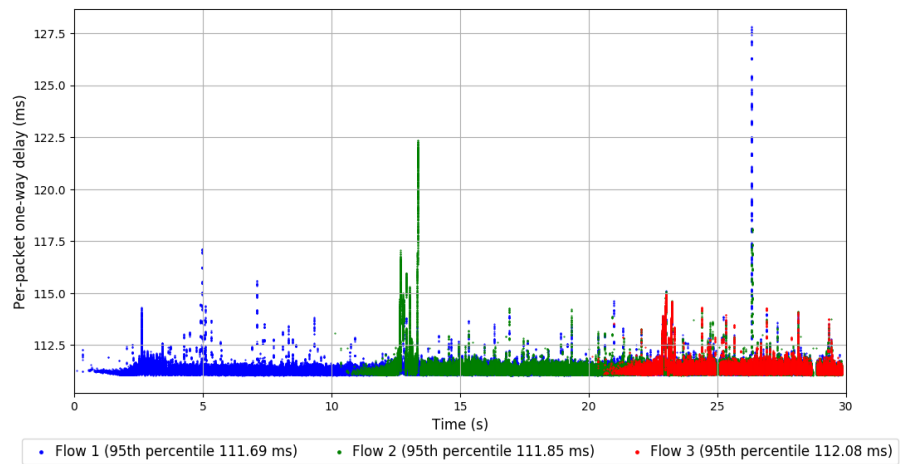
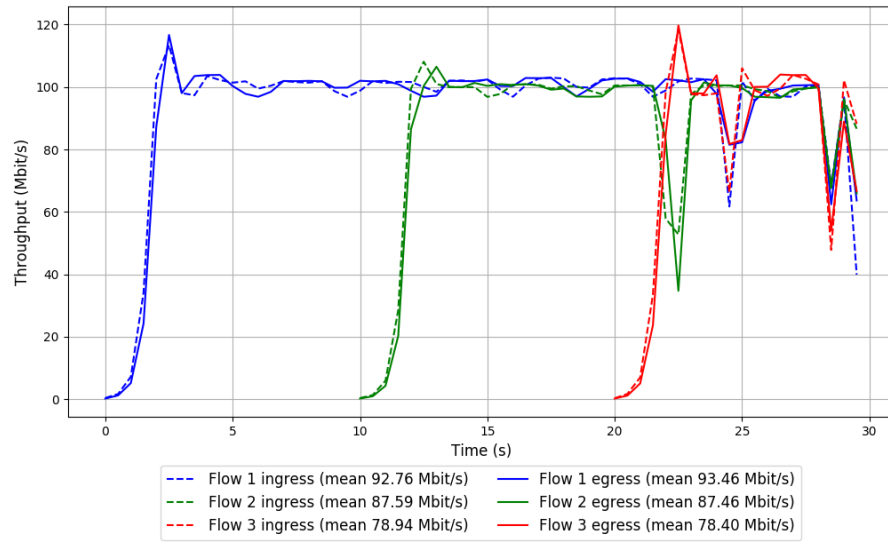
-- Flow 3:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 112.078 ms

Loss rate: 2.93%

Run 10: Report of TCP BBR — Data Link

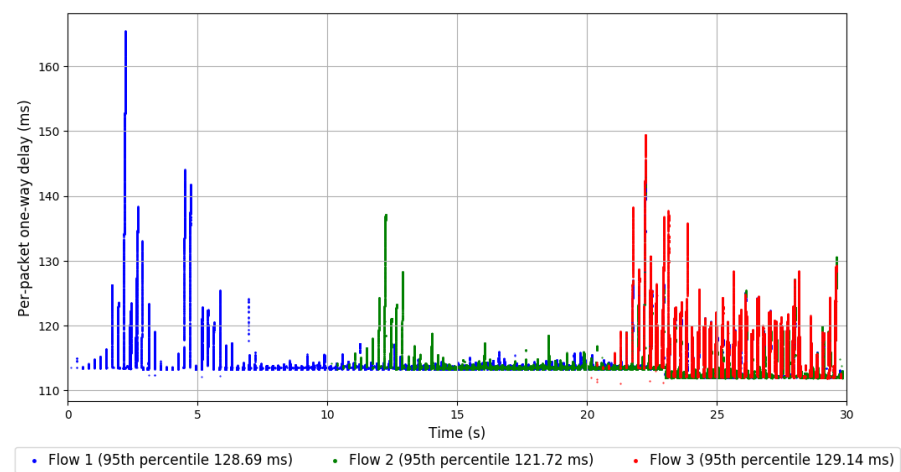
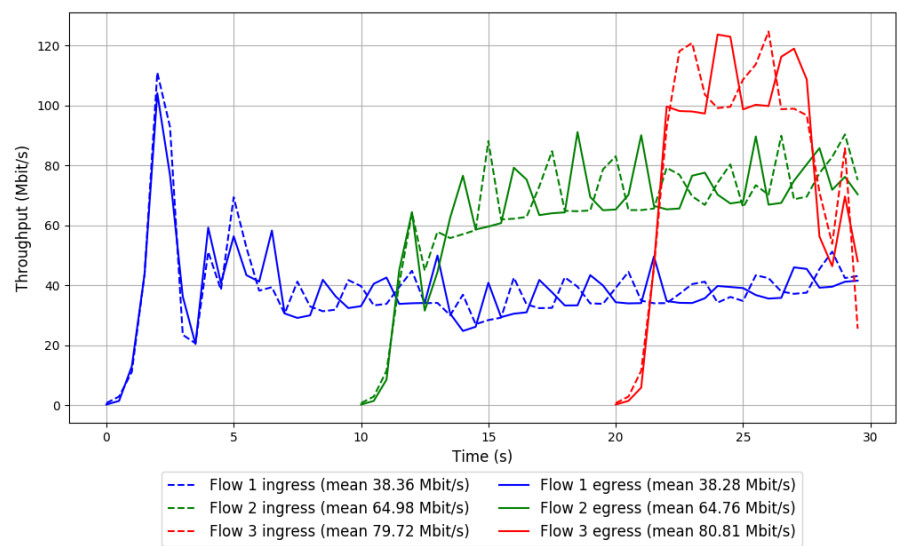


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 09:15:07
End at: 2018-01-26 09:15:37

# Below is generated by plot.py at 2018-01-26 14:31:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.37 Mbit/s
95th percentile per-packet one-way delay: 125.804 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 38.28 Mbit/s
95th percentile per-packet one-way delay: 128.686 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 64.76 Mbit/s
95th percentile per-packet one-way delay: 121.723 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 80.81 Mbit/s
95th percentile per-packet one-way delay: 129.144 ms
Loss rate: 1.00%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 09:30:56

End at: 2018-01-26 09:31:26

Below is generated by plot.py at 2018-01-26 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.66 Mbit/s

95th percentile per-packet one-way delay: 127.638 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 126.120 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 81.55 Mbit/s

95th percentile per-packet one-way delay: 129.116 ms

Loss rate: 0.68%

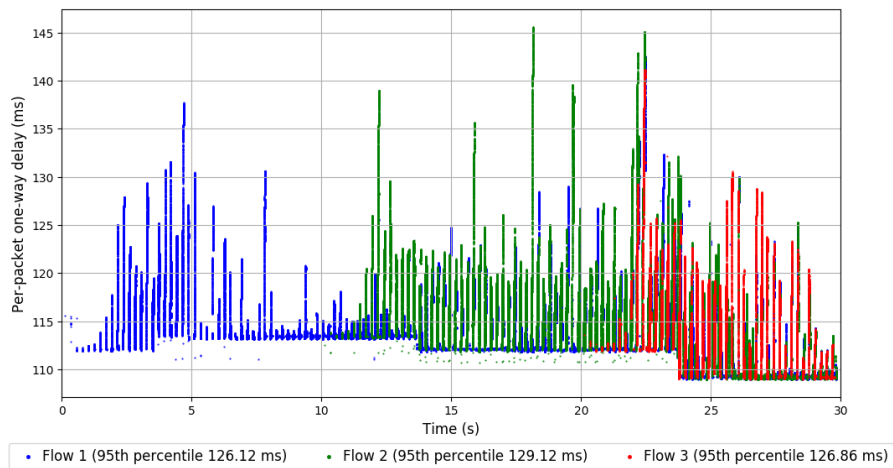
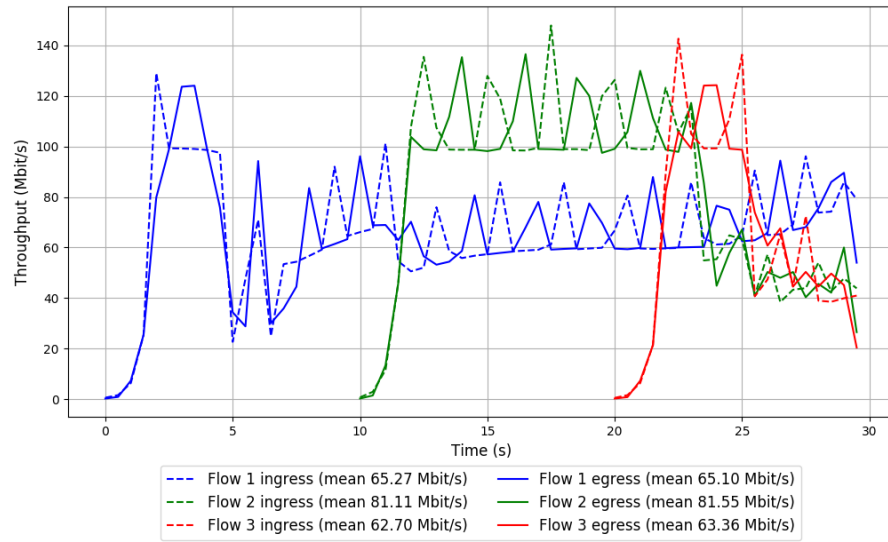
-- Flow 3:

Average throughput: 63.36 Mbit/s

95th percentile per-packet one-way delay: 126.864 ms

Loss rate: 1.68%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 09:46:37

End at: 2018-01-26 09:47:07

Below is generated by plot.py at 2018-01-26 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.47 Mbit/s

95th percentile per-packet one-way delay: 125.028 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 101.79 Mbit/s

95th percentile per-packet one-way delay: 123.774 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 47.34 Mbit/s

95th percentile per-packet one-way delay: 125.779 ms

Loss rate: 1.33%

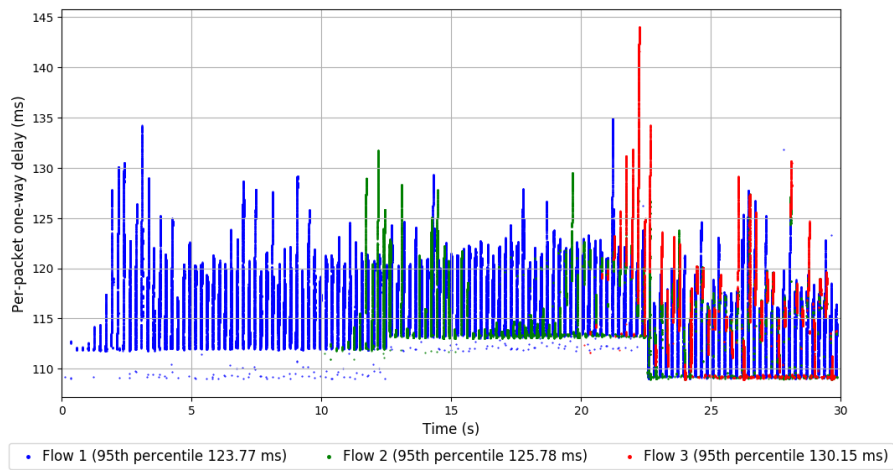
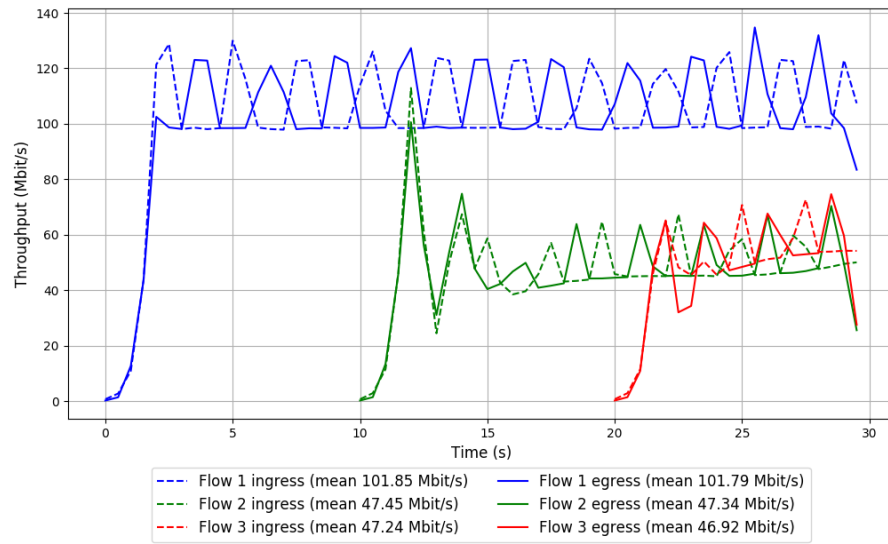
-- Flow 3:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 130.149 ms

Loss rate: 2.90%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 10:02:47

End at: 2018-01-26 10:03:17

Below is generated by plot.py at 2018-01-26 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.68 Mbit/s

95th percentile per-packet one-way delay: 119.784 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 119.136 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 117.883 ms

Loss rate: 1.08%

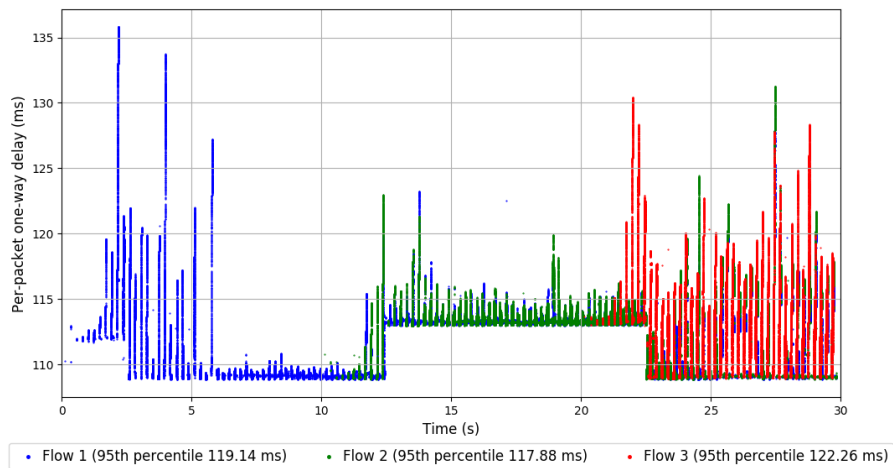
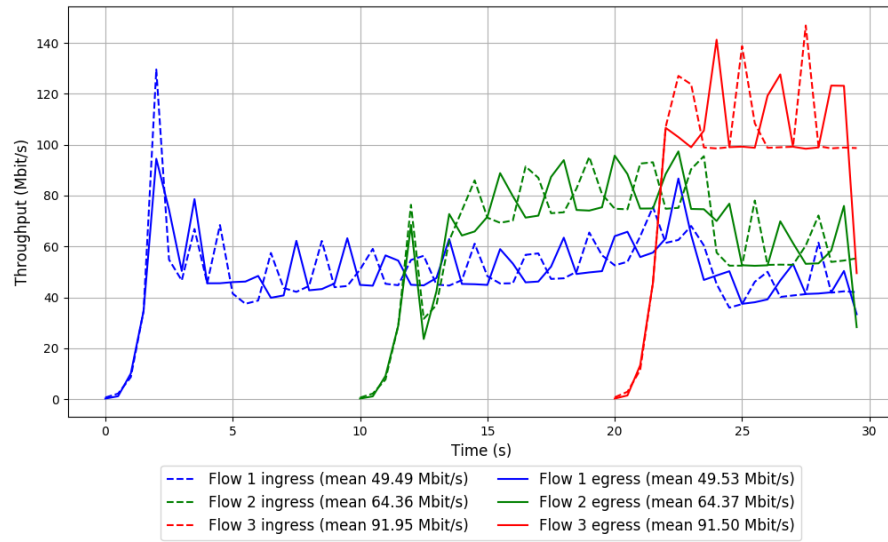
-- Flow 3:

Average throughput: 91.50 Mbit/s

95th percentile per-packet one-way delay: 122.264 ms

Loss rate: 2.73%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 10:18:34

End at: 2018-01-26 10:19:04

Below is generated by plot.py at 2018-01-26 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.57 Mbit/s

95th percentile per-packet one-way delay: 125.404 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 123.351 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 122.744 ms

Loss rate: 1.10%

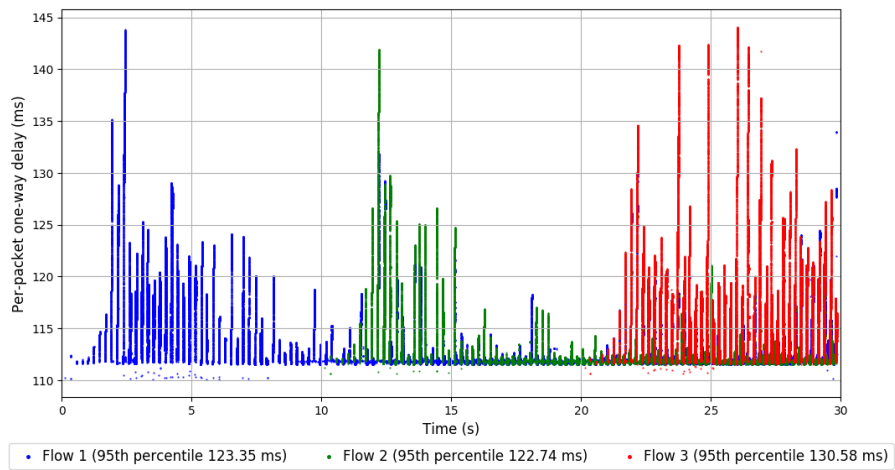
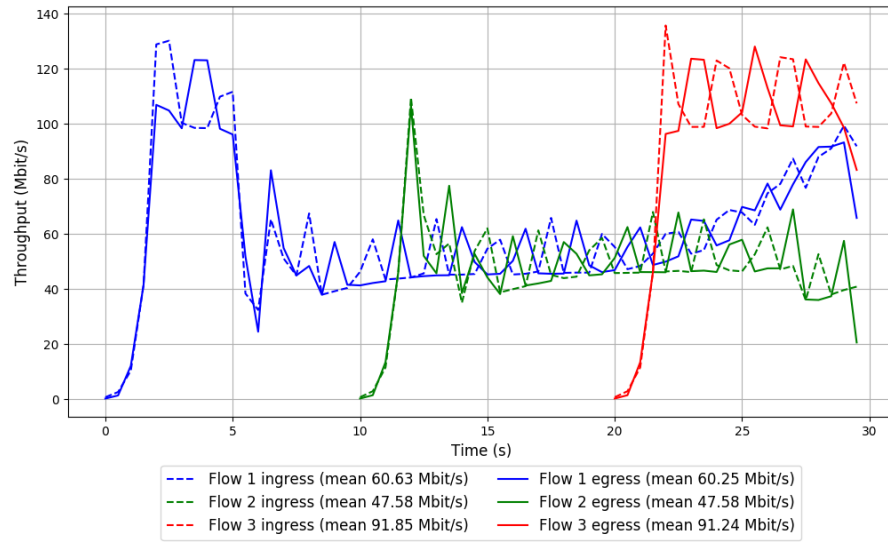
-- Flow 3:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 130.577 ms

Loss rate: 2.90%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 10:34:31

End at: 2018-01-26 10:35:01

Below is generated by plot.py at 2018-01-26 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.64 Mbit/s

95th percentile per-packet one-way delay: 122.791 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 54.71 Mbit/s

95th percentile per-packet one-way delay: 120.144 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 121.531 ms

Loss rate: 1.20%

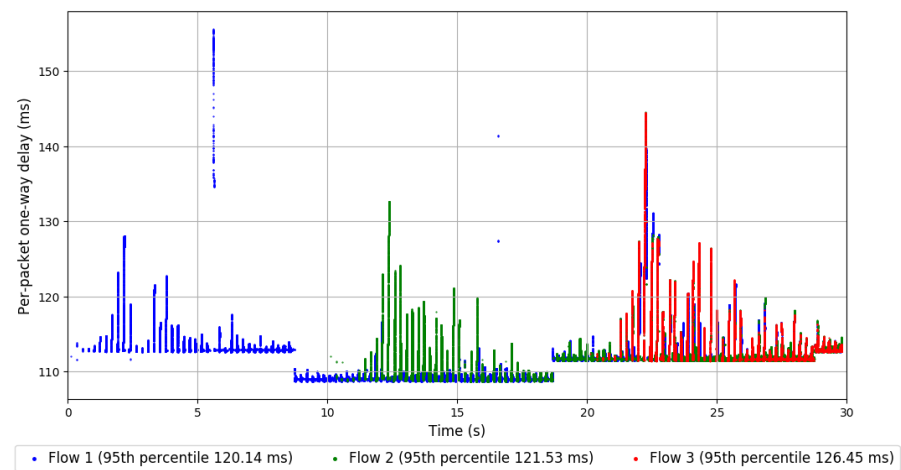
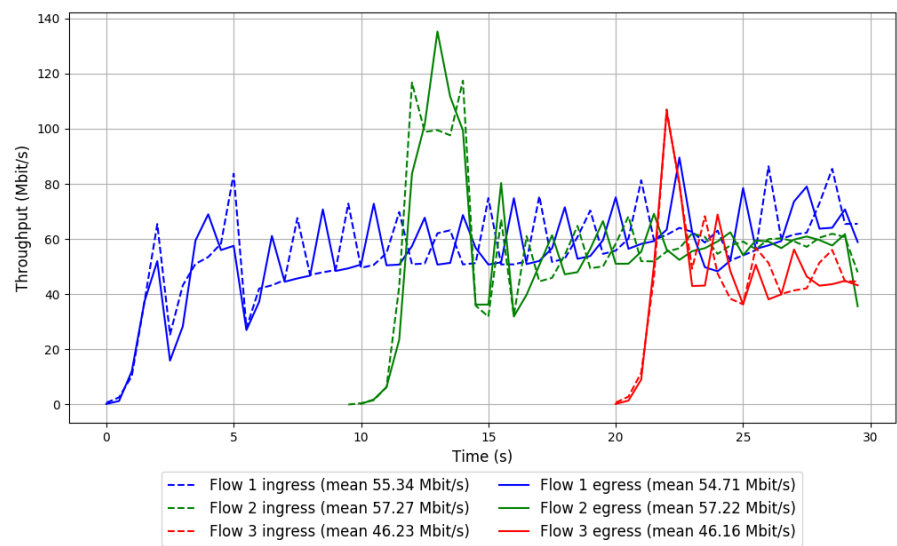
-- Flow 3:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 126.455 ms

Loss rate: 2.44%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 10:50:34

End at: 2018-01-26 10:51:04

Below is generated by plot.py at 2018-01-26 14:31:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.07 Mbit/s

95th percentile per-packet one-way delay: 124.299 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 60.02 Mbit/s

95th percentile per-packet one-way delay: 124.552 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 124.089 ms

Loss rate: 0.95%

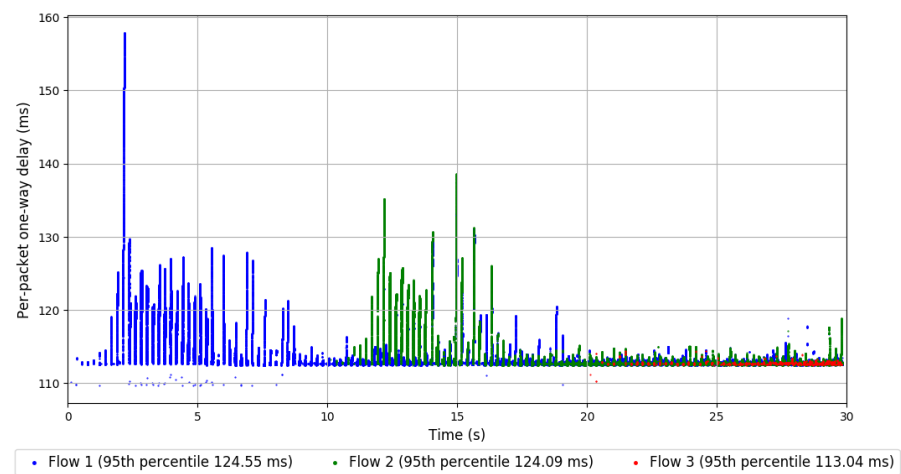
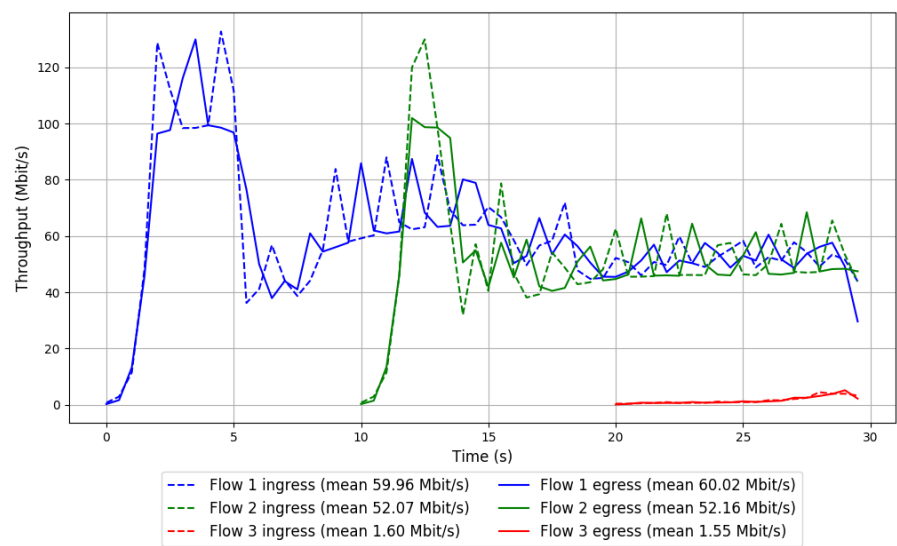
-- Flow 3:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 113.037 ms

Loss rate: 5.08%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 11:06:02

End at: 2018-01-26 11:06:32

Below is generated by plot.py at 2018-01-26 14:31:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.89 Mbit/s

95th percentile per-packet one-way delay: 126.486 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 116.740 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 117.381 ms

Loss rate: 3.84%

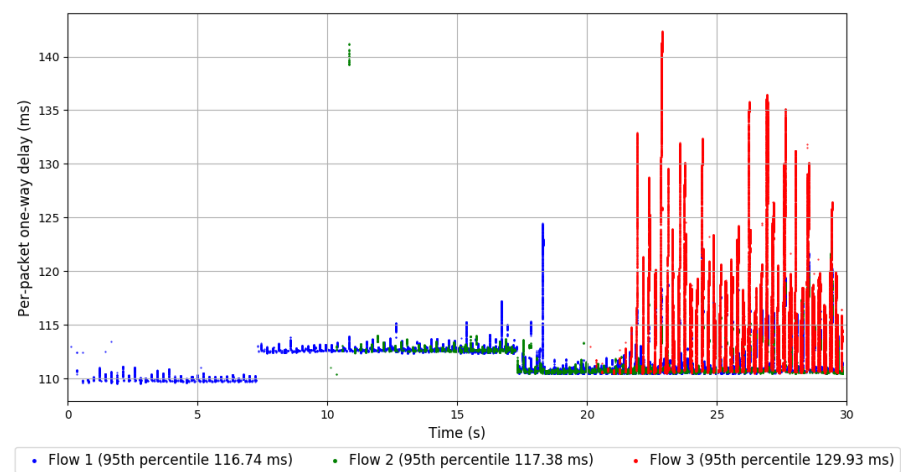
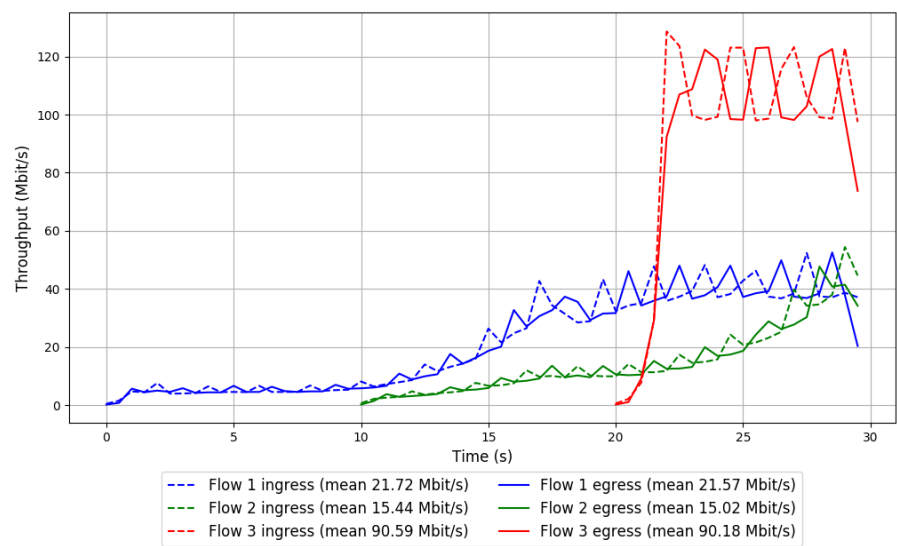
-- Flow 3:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 129.934 ms

Loss rate: 2.70%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 11:21:48

End at: 2018-01-26 11:22:18

Below is generated by plot.py at 2018-01-26 14:31:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.47 Mbit/s

95th percentile per-packet one-way delay: 123.043 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 121.035 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 66.48 Mbit/s

95th percentile per-packet one-way delay: 126.008 ms

Loss rate: 1.79%

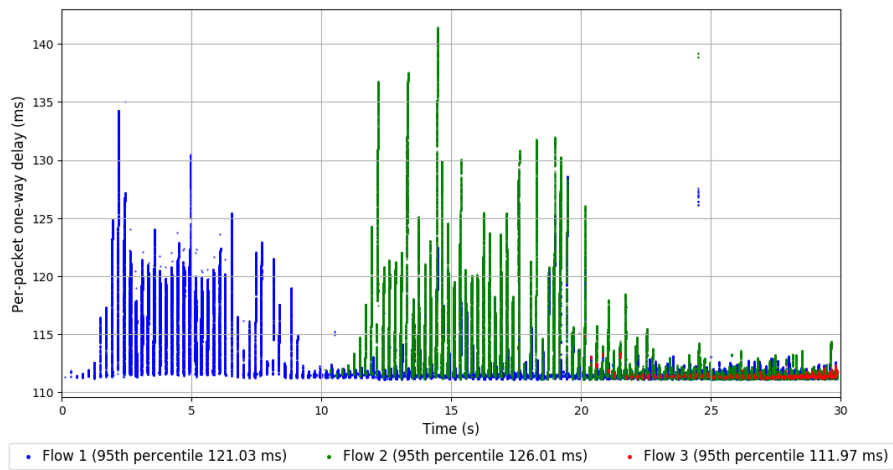
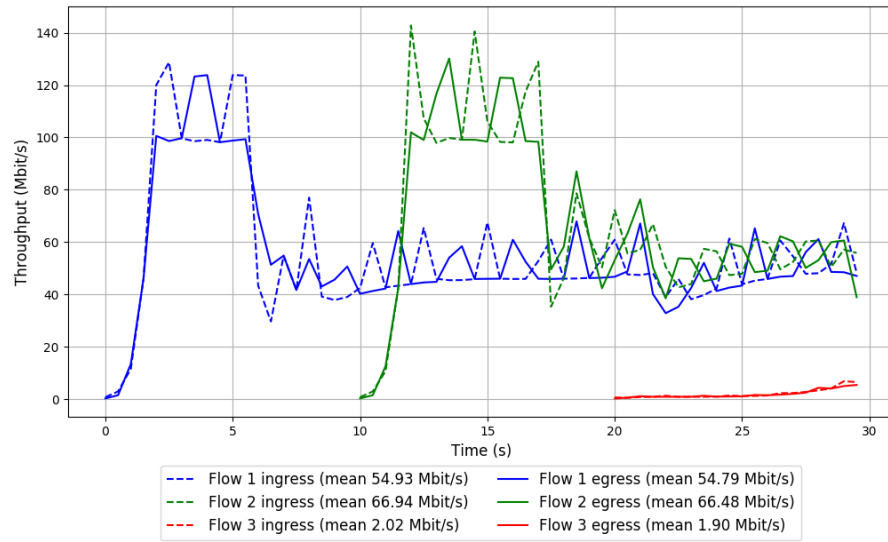
-- Flow 3:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 111.973 ms

Loss rate: 8.19%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 11:37:27

End at: 2018-01-26 11:37:57

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.06 Mbit/s

95th percentile per-packet one-way delay: 123.794 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 73.31 Mbit/s

95th percentile per-packet one-way delay: 124.269 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 60.44 Mbit/s

95th percentile per-packet one-way delay: 123.967 ms

Loss rate: 0.96%

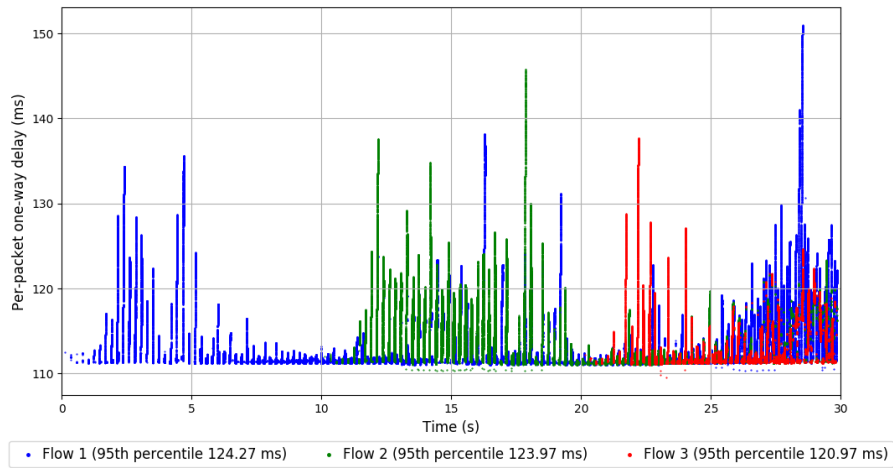
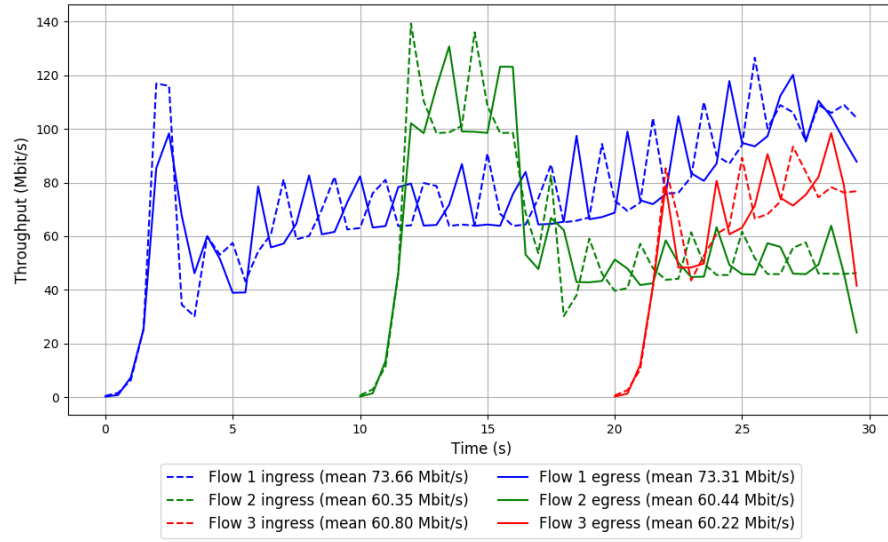
-- Flow 3:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 120.966 ms

Loss rate: 3.19%

Run 10: Report of TCP Cubic — Data Link

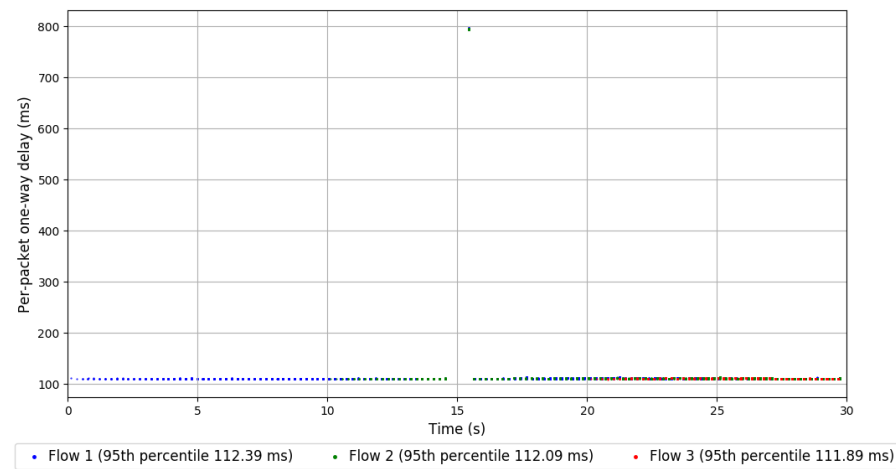
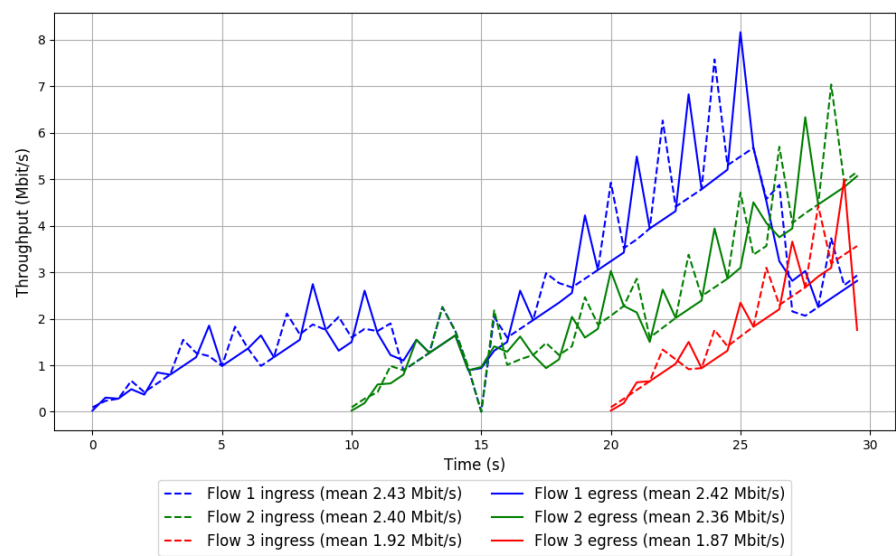


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 09:07:23
End at: 2018-01-26 09:07:53

# Below is generated by plot.py at 2018-01-26 14:32:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 112.261 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 112.390 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 112.093 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 111.892 ms
Loss rate: 4.81%
```


Run 1: Report of LEDBAT — Data Link

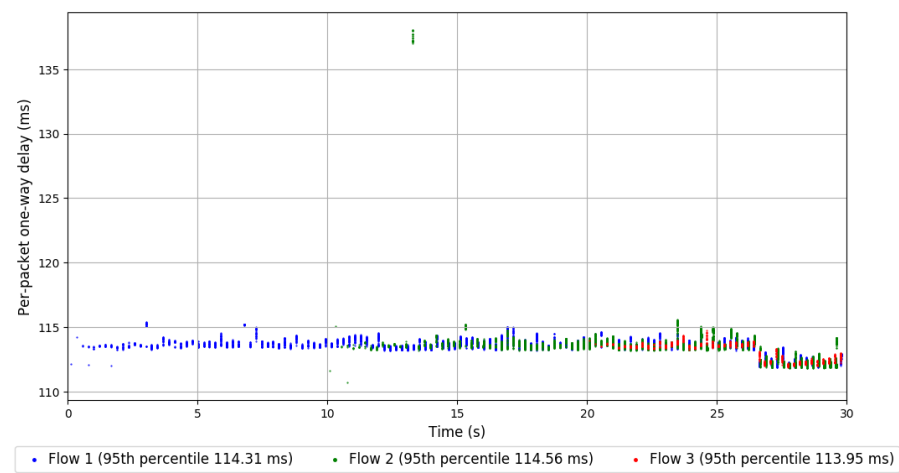
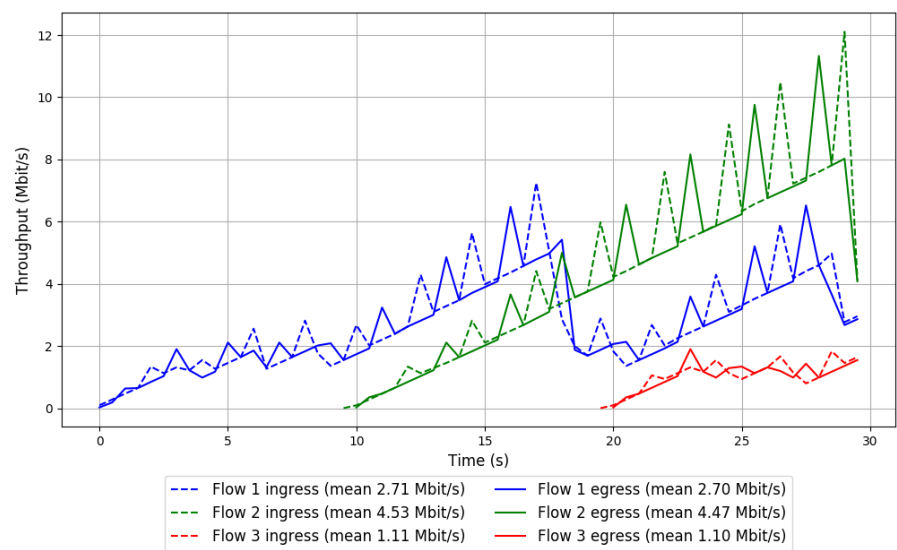


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 09:23:13
End at: 2018-01-26 09:23:43

# Below is generated by plot.py at 2018-01-26 14:32:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 114.371 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 114.305 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 114.557 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 113.951 ms
Loss rate: 3.83%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 09:38:52

End at: 2018-01-26 09:39:22

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 114.275 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 2.72 Mbit/s

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

Loss rate: 1.15%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 113.971 ms

Loss rate: 2.51%

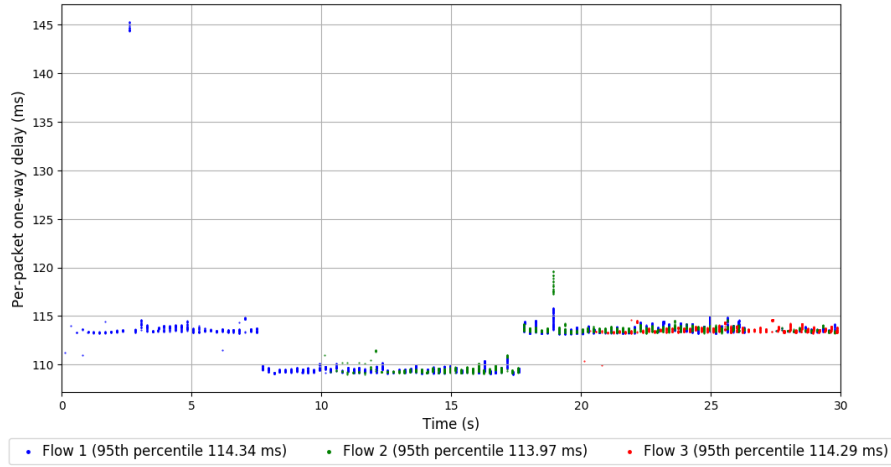
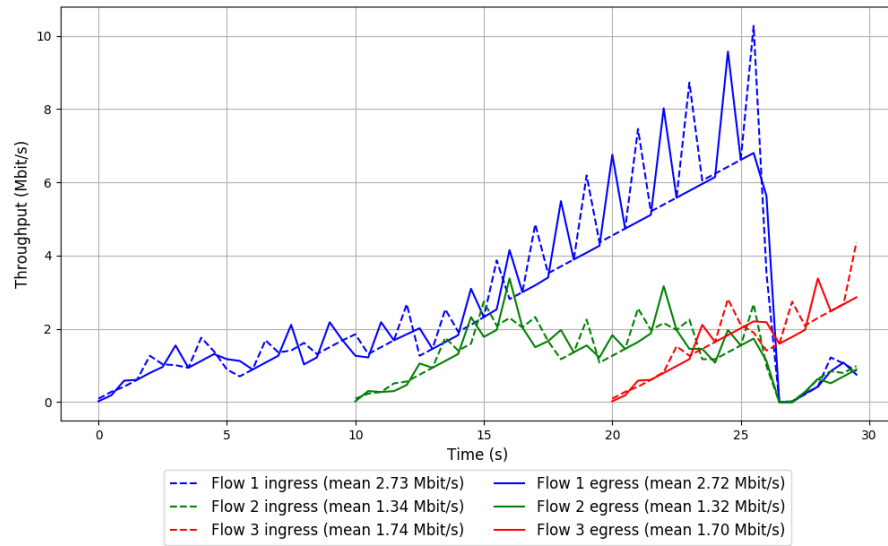
-- Flow 3:

Average throughput: 1.70 Mbit/s

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

Loss rate: 4.34%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 09:54:59

End at: 2018-01-26 09:55:29

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.65 Mbit/s

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

Loss rate: 1.94%

-- Flow 1:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 114.985 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 114.741 ms

Loss rate: 2.27%

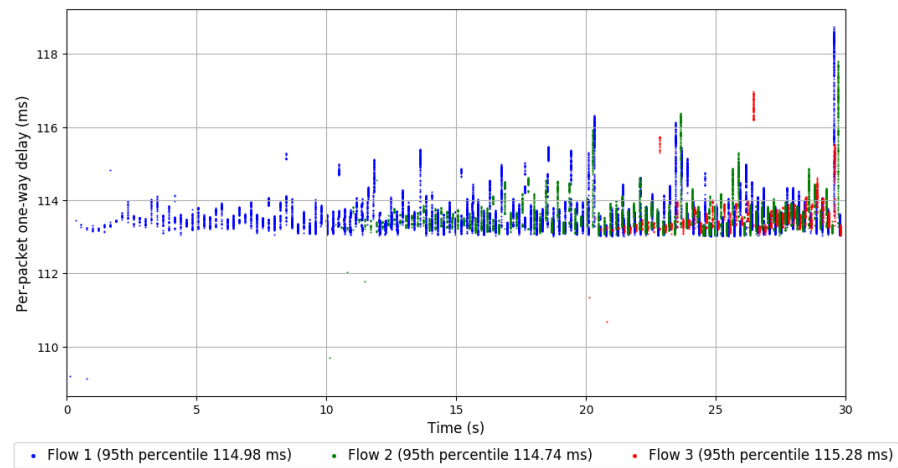
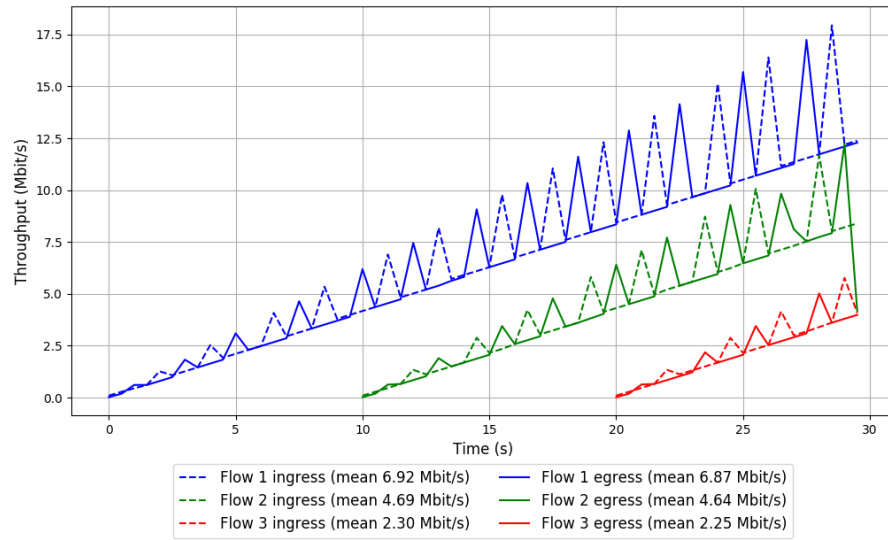
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 115.284 ms

Loss rate: 4.53%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 10:10:55

End at: 2018-01-26 10:11:25

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 113.556 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 113.609 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 113.476 ms

Loss rate: 2.63%

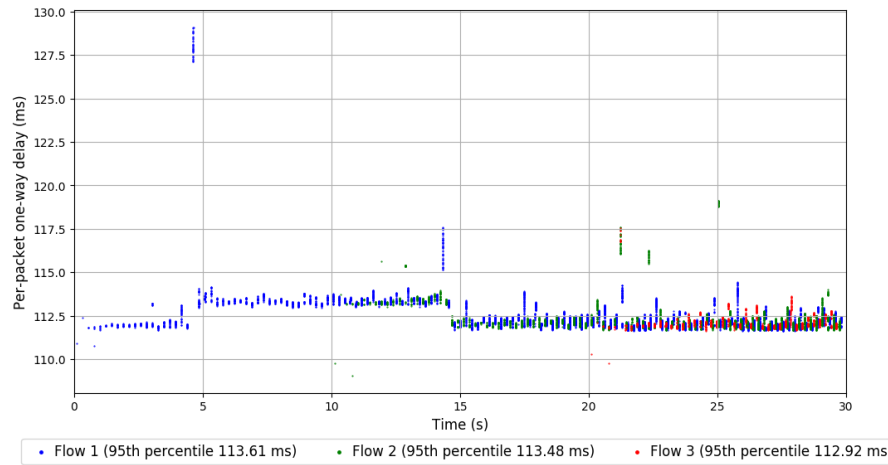
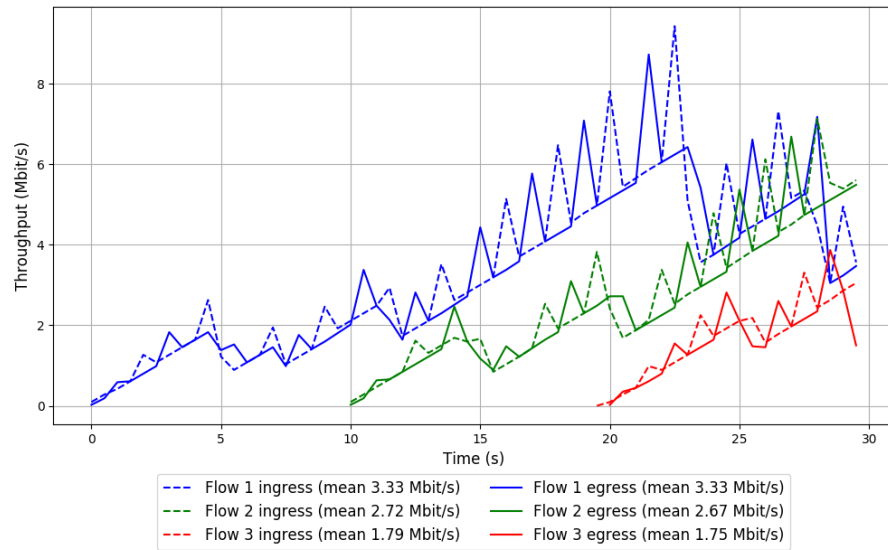
-- Flow 3:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 112.917 ms

Loss rate: 4.44%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-26 10:26:46

End at: 2018-01-26 10:27:16

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 113.601 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 113.487 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 114.254 ms

Loss rate: 1.99%

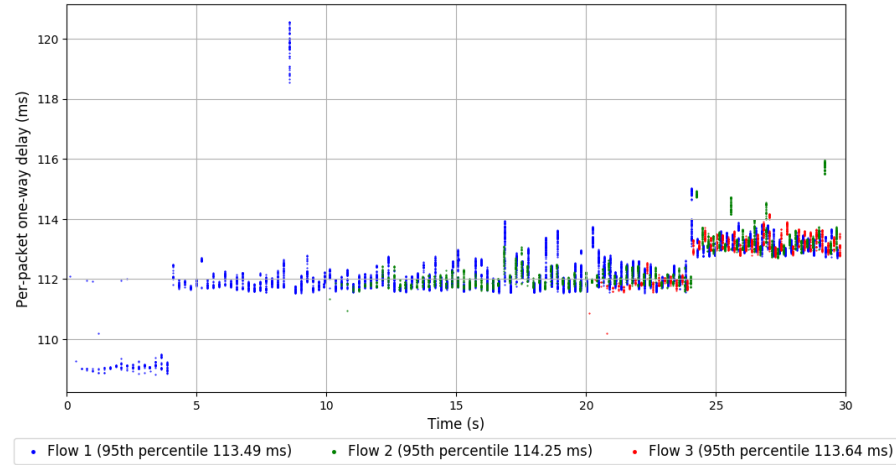
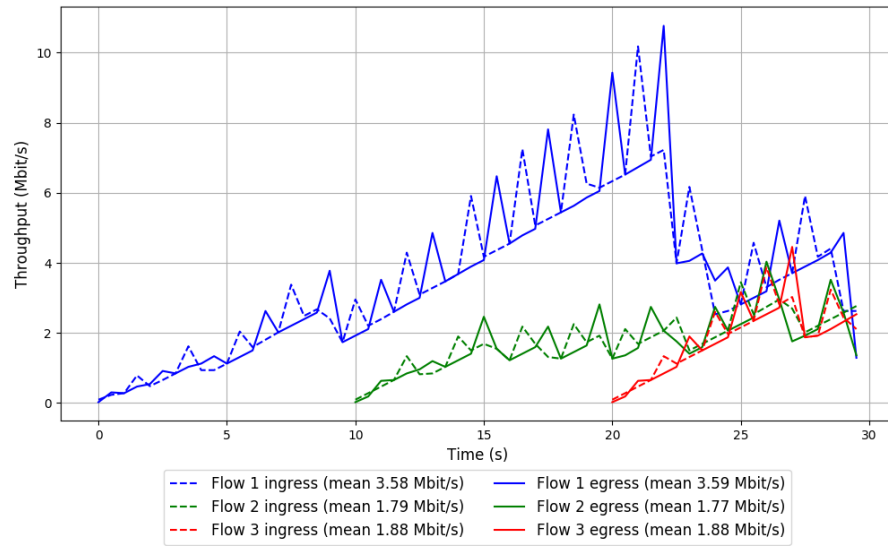
-- Flow 3:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 113.643 ms

Loss rate: 2.21%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 10:42:48

End at: 2018-01-26 10:43:18

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 113.477 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 1.34 Mbit/s

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

Loss rate: 2.73%

-- Flow 2:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 113.716 ms

Loss rate: 2.26%

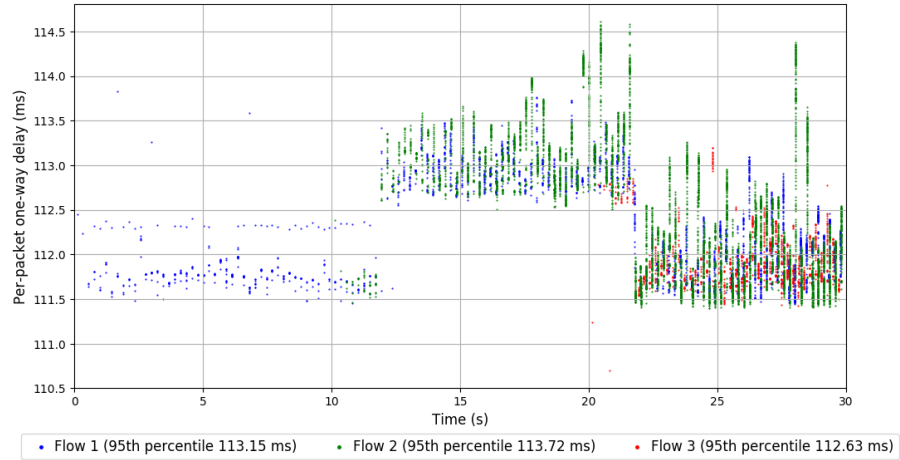
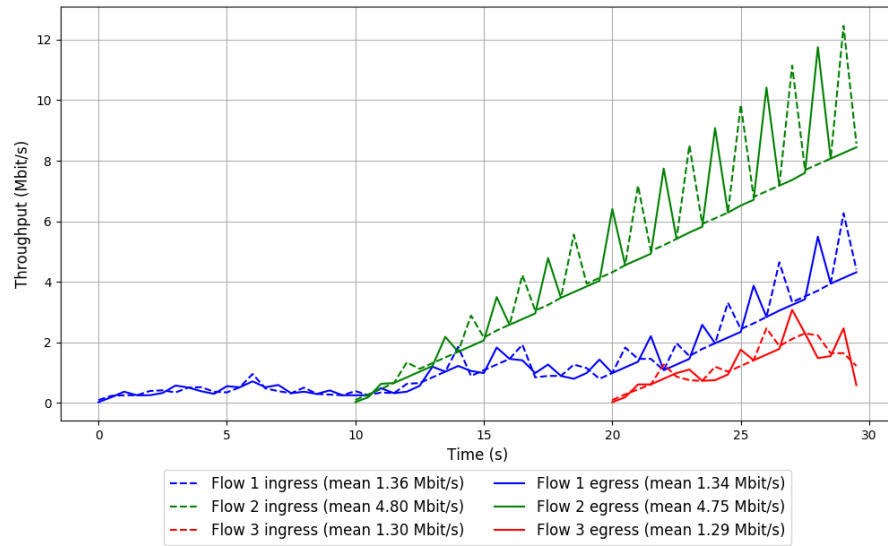
-- Flow 3:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 112.627 ms

Loss rate: 2.59%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 10:58:29

End at: 2018-01-26 10:58:59

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 111.422 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.393 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 111.456 ms

Loss rate: 1.33%

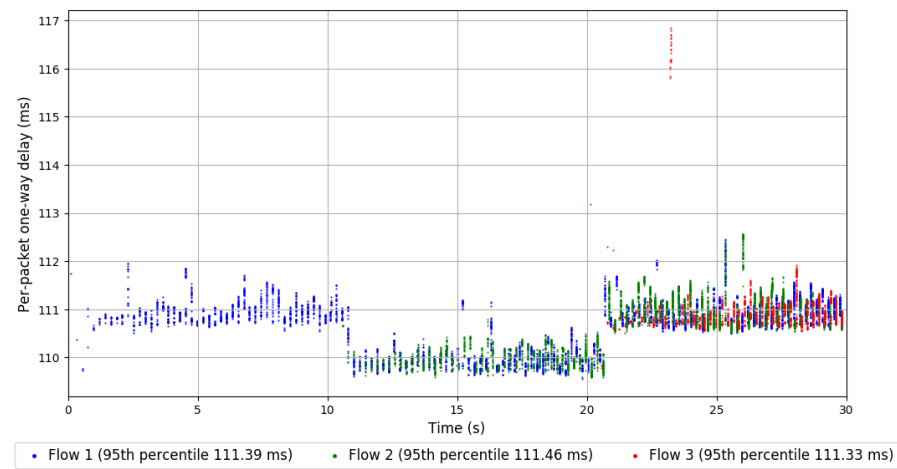
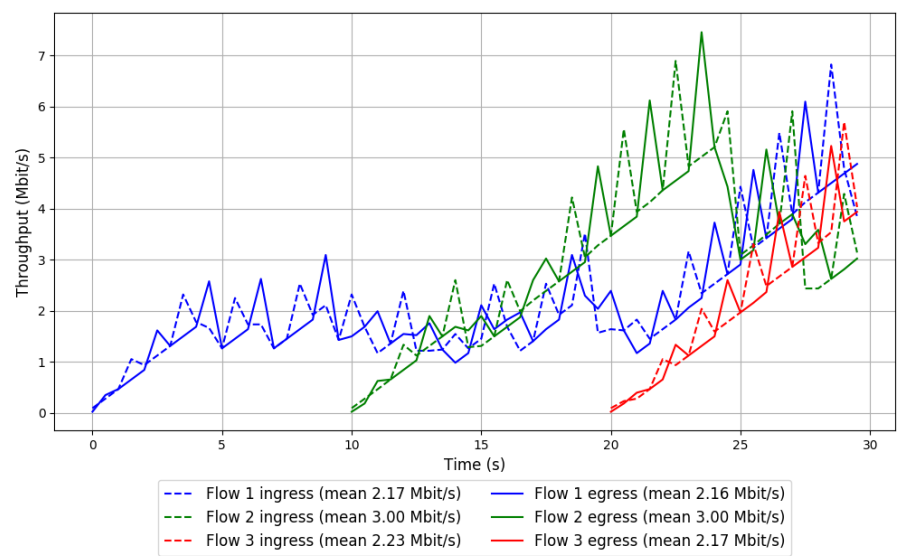
-- Flow 3:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 111.329 ms

Loss rate: 4.62%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 11:13:58

End at: 2018-01-26 11:14:28

Below is generated by plot.py at 2018-01-26 14:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 112.468 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 112.248 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 112.718 ms

Loss rate: 2.03%

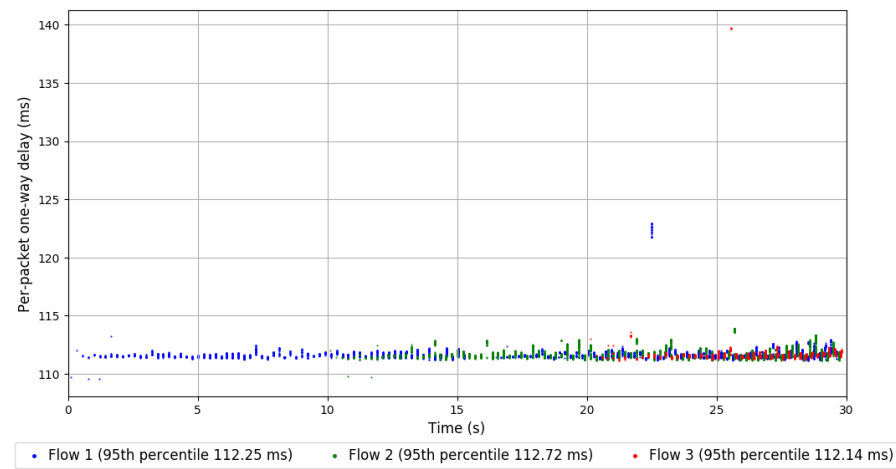
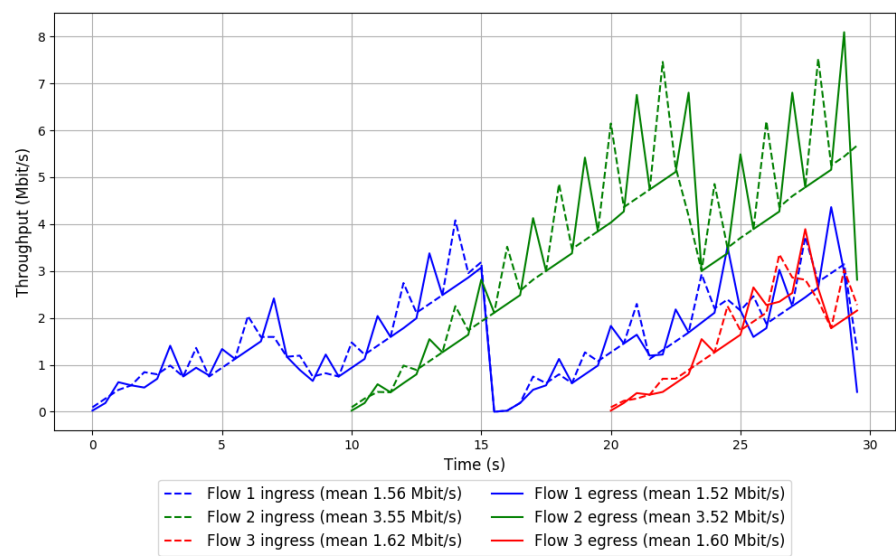
-- Flow 3:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 112.136 ms

Loss rate: 3.65%

Run 9: Report of LEDBAT — Data Link

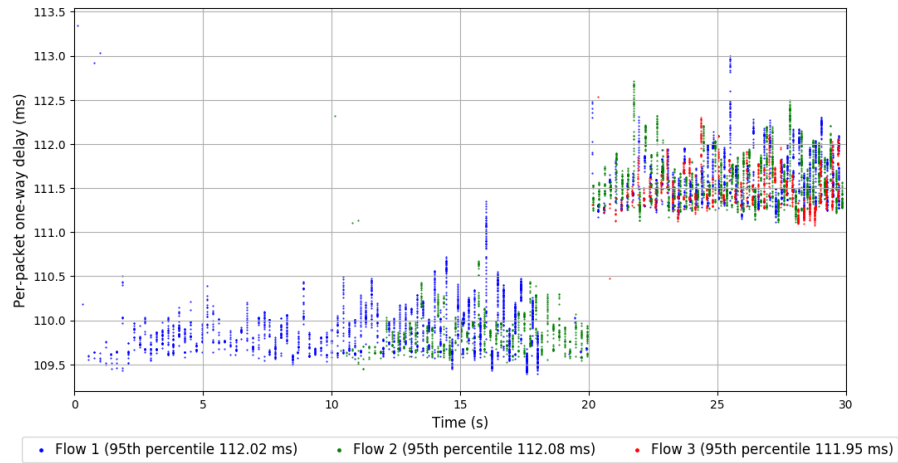
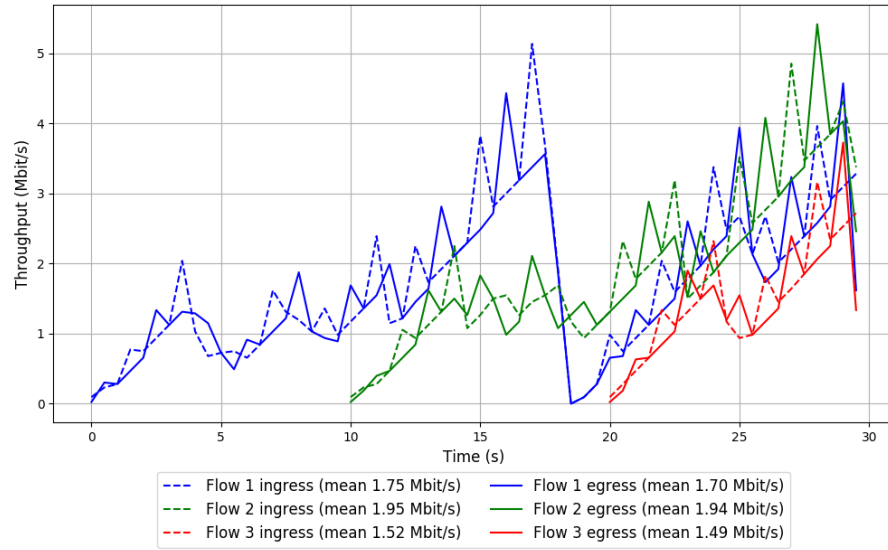


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-26 11:29:50
End at: 2018-01-26 11:30:20

# Below is generated by plot.py at 2018-01-26 14:32:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 112.036 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 112.017 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 112.083 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 111.950 ms
Loss rate: 4.65%
```

Run 10: Report of LEDBAT — Data Link

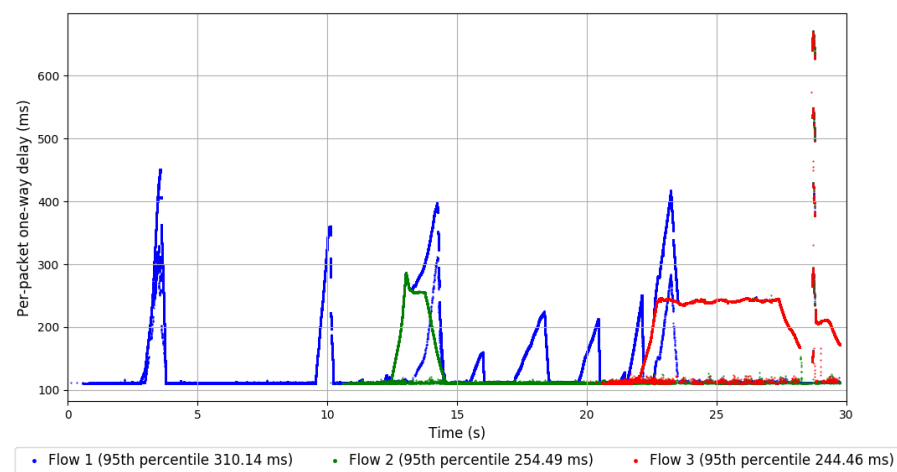
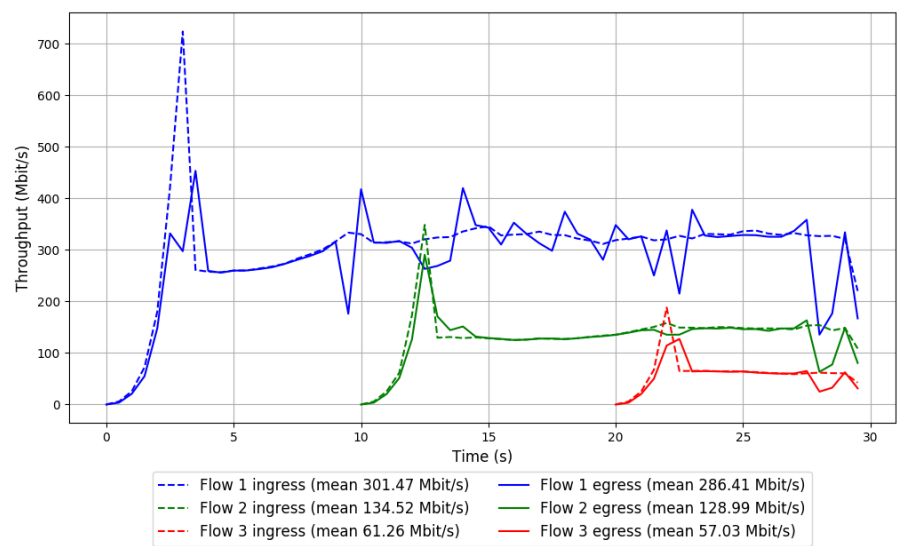


```
Run 1: Statistics of PCC

Start at: 2018-01-26 09:08:09
End at: 2018-01-26 09:08:39

# Below is generated by plot.py at 2018-01-26 14:38:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.30 Mbit/s
95th percentile per-packet one-way delay: 287.934 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 286.41 Mbit/s
95th percentile per-packet one-way delay: 310.138 ms
Loss rate: 5.70%
-- Flow 2:
Average throughput: 128.99 Mbit/s
95th percentile per-packet one-way delay: 254.493 ms
Loss rate: 5.18%
-- Flow 3:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 244.459 ms
Loss rate: 9.03%
```

Run 1: Report of PCC — Data Link

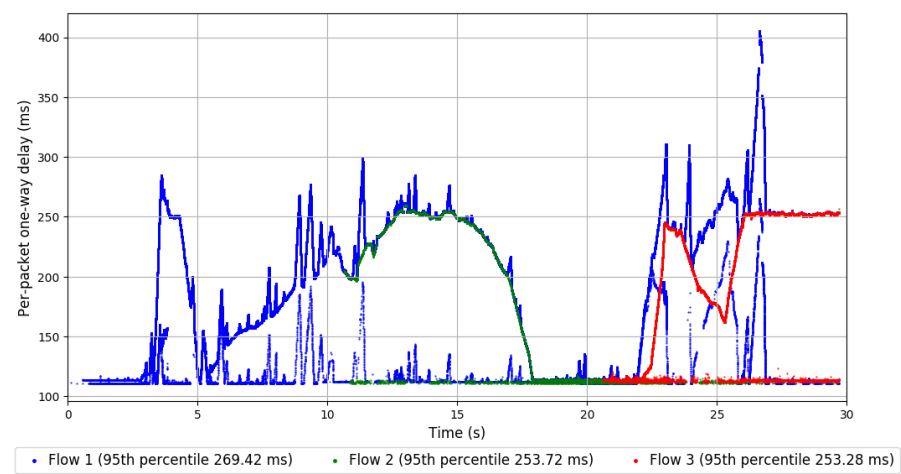
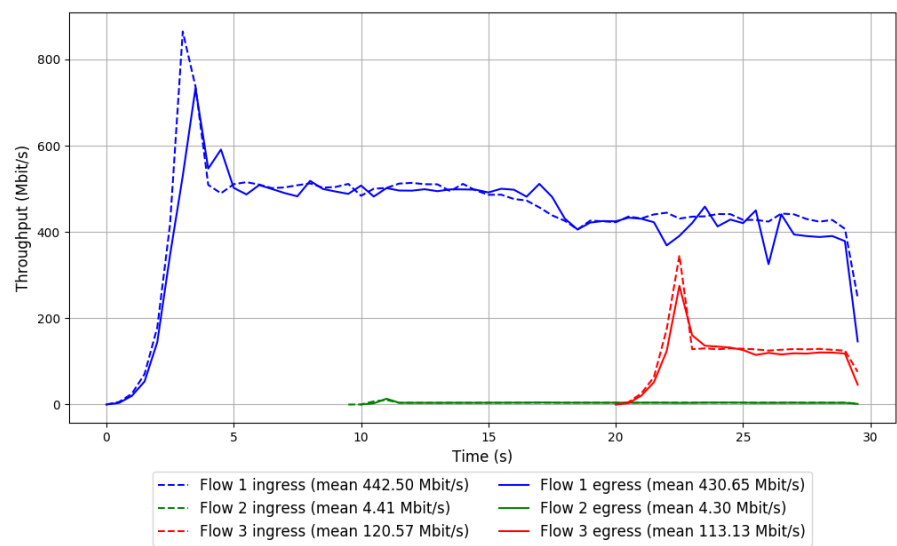


```
Run 2: Statistics of PCC

Start at: 2018-01-26 09:24:00
End at: 2018-01-26 09:24:30

# Below is generated by plot.py at 2018-01-26 14:39:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.91 Mbit/s
95th percentile per-packet one-way delay: 267.862 ms
Loss rate: 3.81%
-- Flow 1:
Average throughput: 430.65 Mbit/s
95th percentile per-packet one-way delay: 269.415 ms
Loss rate: 3.41%
-- Flow 2:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 253.715 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 113.13 Mbit/s
95th percentile per-packet one-way delay: 253.281 ms
Loss rate: 8.35%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 09:39:39

End at: 2018-01-26 09:40:09

Below is generated by plot.py at 2018-01-26 14:40:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.58 Mbit/s

95th percentile per-packet one-way delay: 285.051 ms

Loss rate: 4.62%

-- Flow 1:

Average throughput: 455.72 Mbit/s

95th percentile per-packet one-way delay: 291.595 ms

Loss rate: 4.45%

-- Flow 2:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 244.482 ms

Loss rate: 3.53%

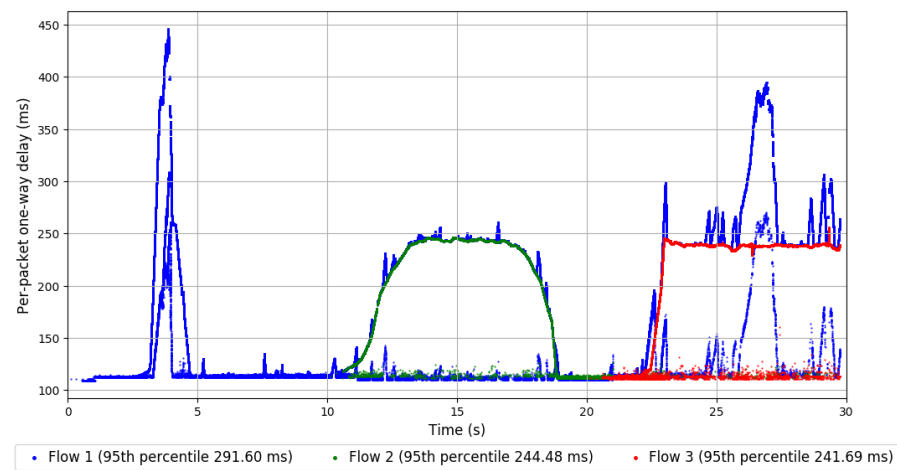
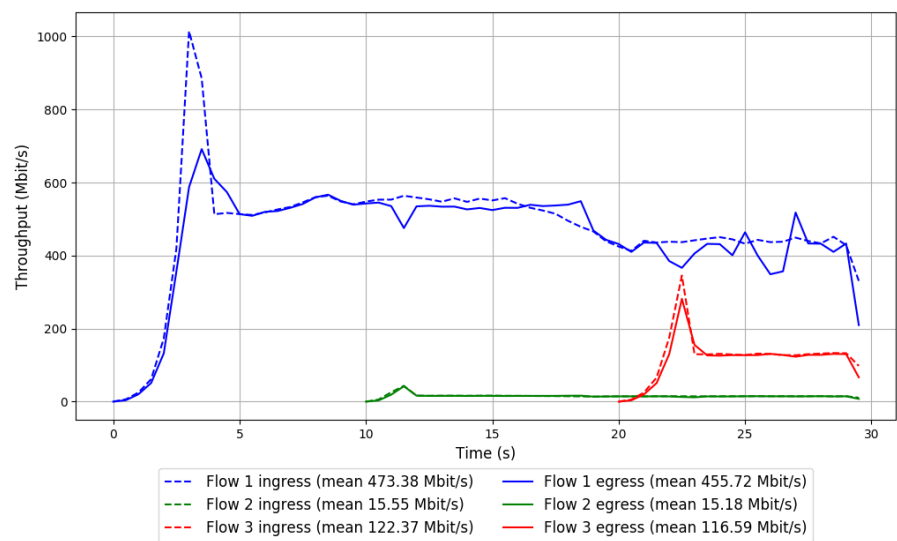
-- Flow 3:

Average throughput: 116.59 Mbit/s

95th percentile per-packet one-way delay: 241.692 ms

Loss rate: 6.88%

Run 3: Report of PCC — Data Link

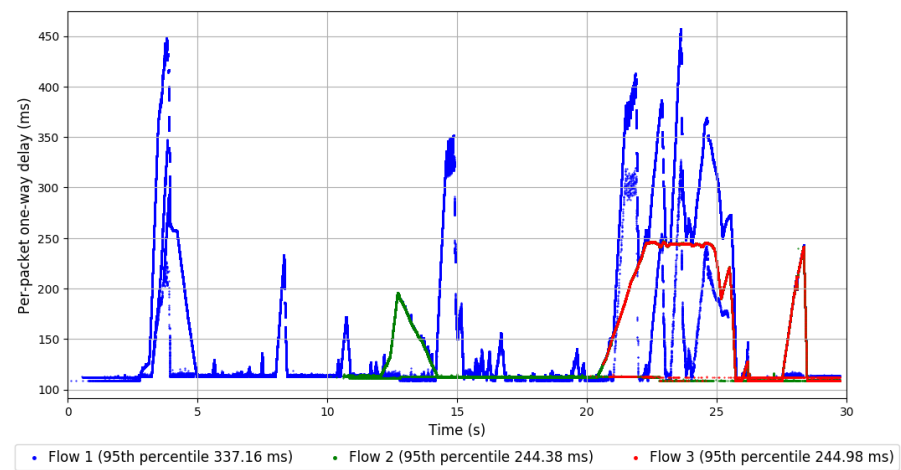
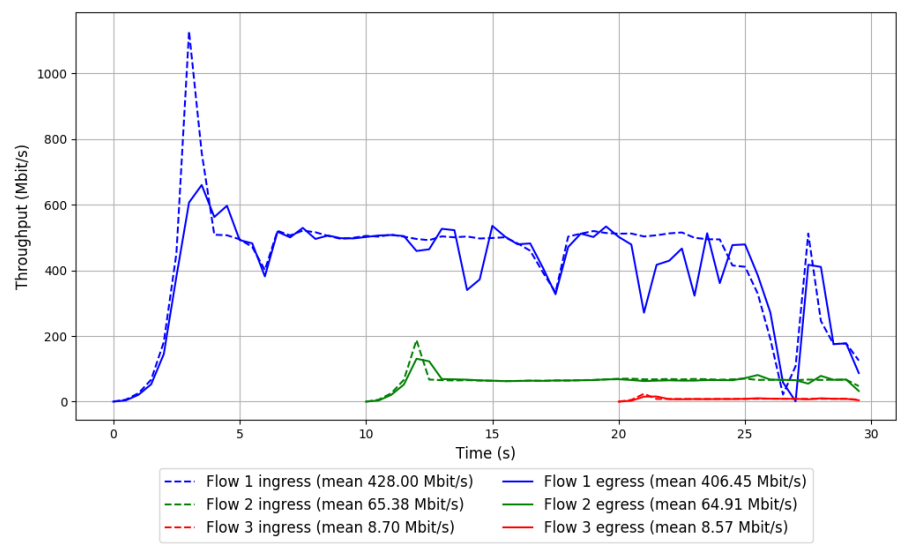


```
Run 4: Statistics of PCC

Start at: 2018-01-26 09:55:47
End at: 2018-01-26 09:56:17

# Below is generated by plot.py at 2018-01-26 14:40:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 452.12 Mbit/s
95th percentile per-packet one-way delay: 330.842 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 406.45 Mbit/s
95th percentile per-packet one-way delay: 337.160 ms
Loss rate: 5.74%
-- Flow 2:
Average throughput: 64.91 Mbit/s
95th percentile per-packet one-way delay: 244.383 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 244.981 ms
Loss rate: 3.79%
```

Run 4: Report of PCC — Data Link

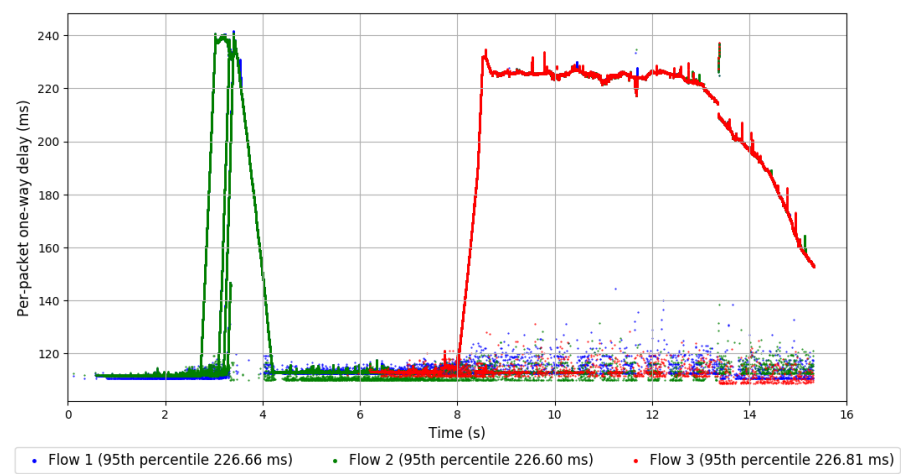
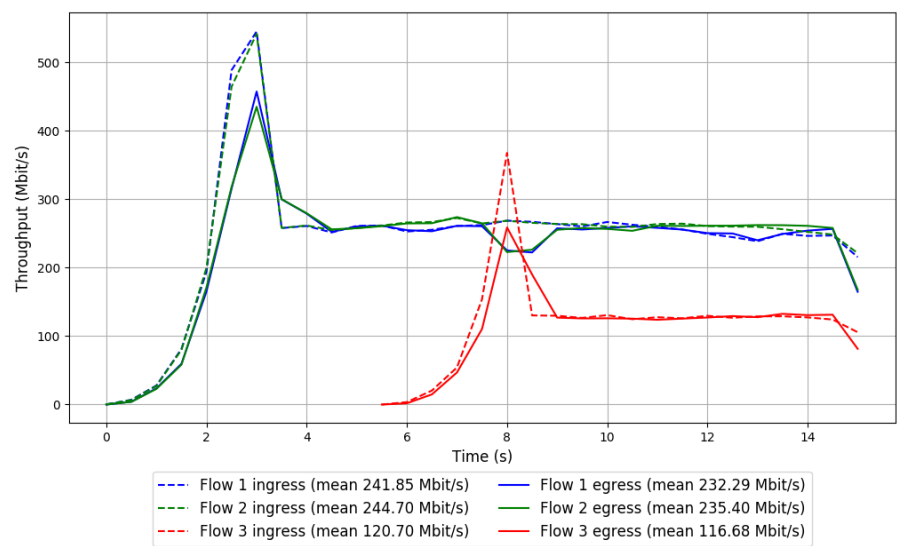


Run 5: Statistics of PCC

Start at: 2018-01-26 10:11:42

End at: 2018-01-26 10:12:12

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 10:27:32

End at: 2018-01-26 10:28:02

Below is generated by plot.py at 2018-01-26 14:40:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.25 Mbit/s

95th percentile per-packet one-way delay: 275.077 ms

Loss rate: 5.51%

-- Flow 1:

Average throughput: 391.57 Mbit/s

95th percentile per-packet one-way delay: 284.125 ms

Loss rate: 5.31%

-- Flow 2:

Average throughput: 120.83 Mbit/s

95th percentile per-packet one-way delay: 257.060 ms

Loss rate: 6.47%

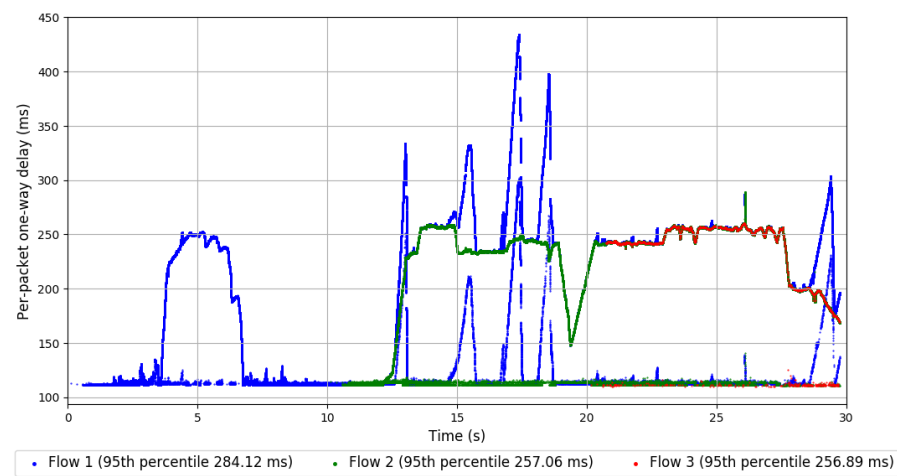
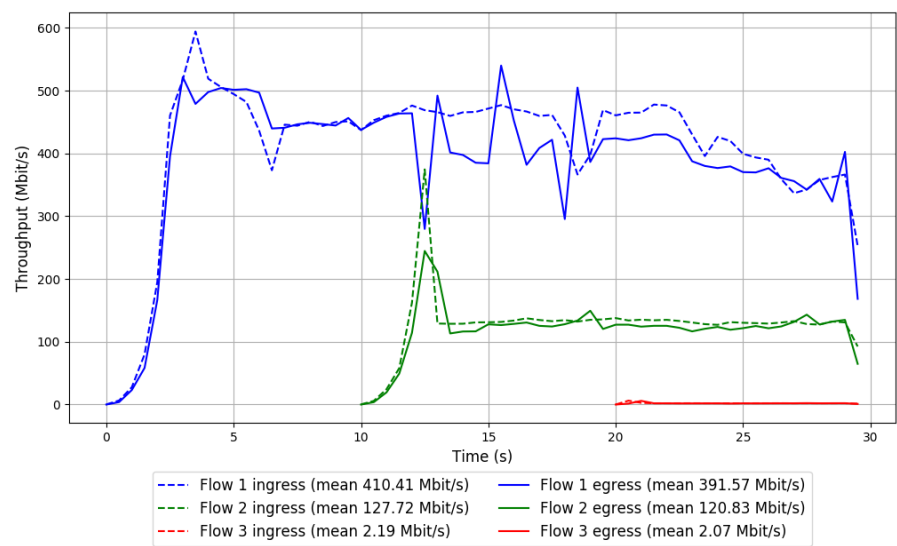
-- Flow 3:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 256.886 ms

Loss rate: 7.54%

Run 6: Report of PCC — Data Link

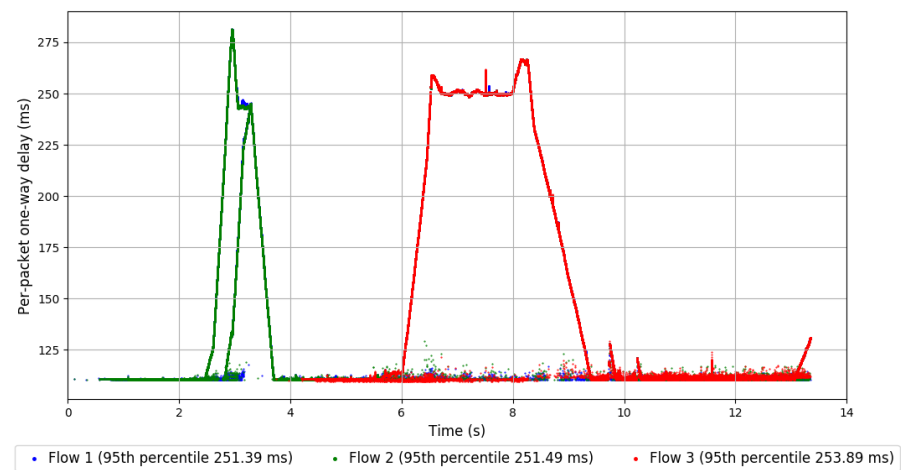
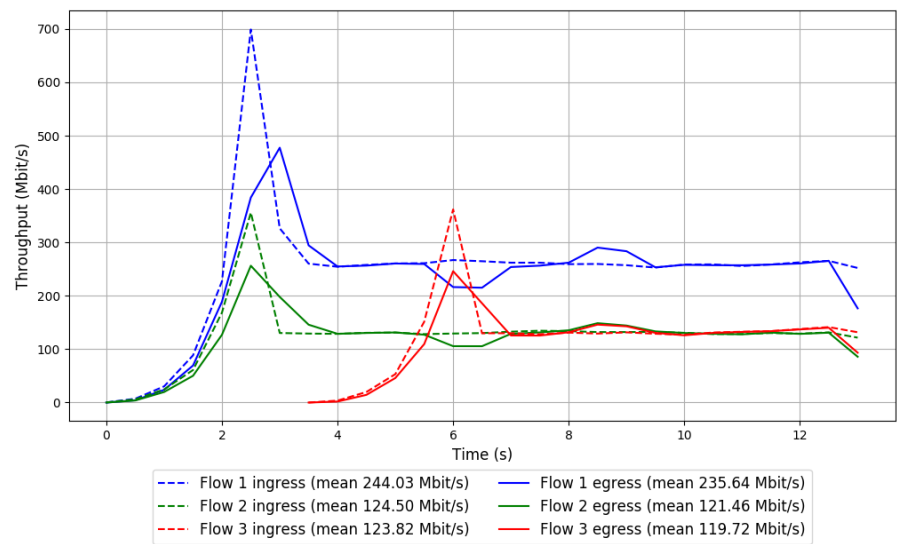


Run 7: Statistics of PCC

Start at: 2018-01-26 10:43:35

End at: 2018-01-26 10:44:05

Run 7: Report of PCC — Data Link

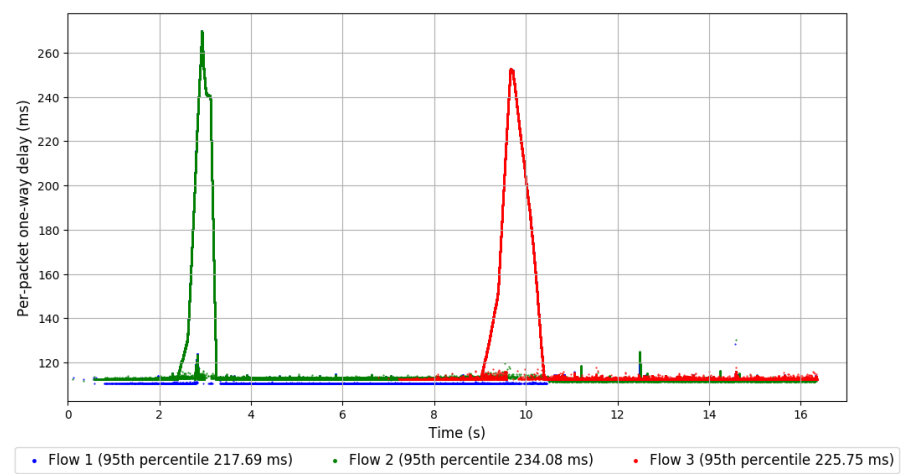
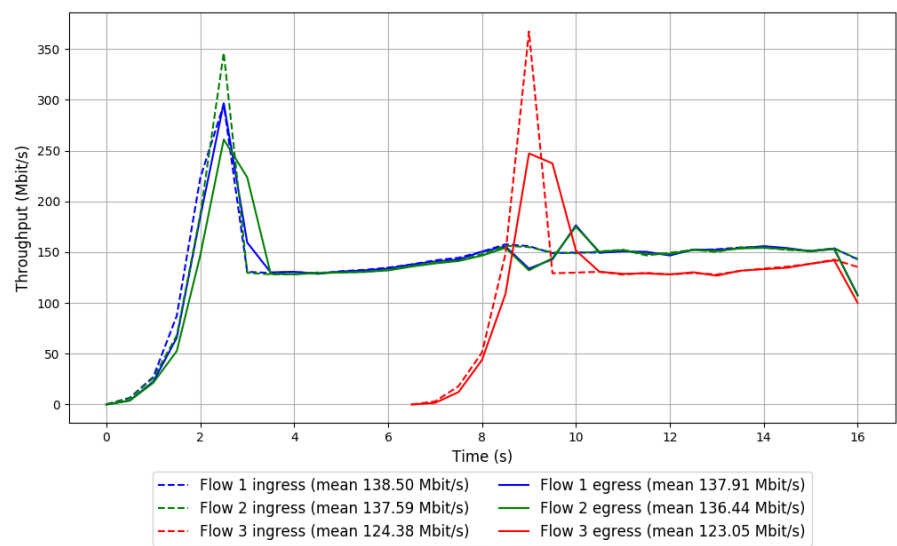


Run 8: Statistics of PCC

Start at: 2018-01-26 10:59:16

End at: 2018-01-26 10:59:46

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 11:14:45

End at: 2018-01-26 11:15:15

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.05 Mbit/s

95th percentile per-packet one-way delay: 238.017 ms

Loss rate: 4.44%

-- Flow 1:

Average throughput: 332.54 Mbit/s

95th percentile per-packet one-way delay: 240.595 ms

Loss rate: 4.73%

-- Flow 2:

Average throughput: 150.76 Mbit/s

95th percentile per-packet one-way delay: 234.684 ms

Loss rate: 3.46%

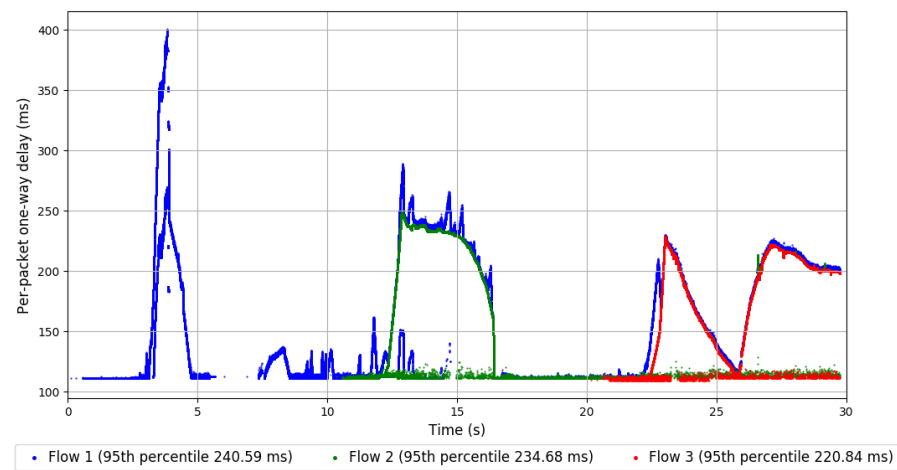
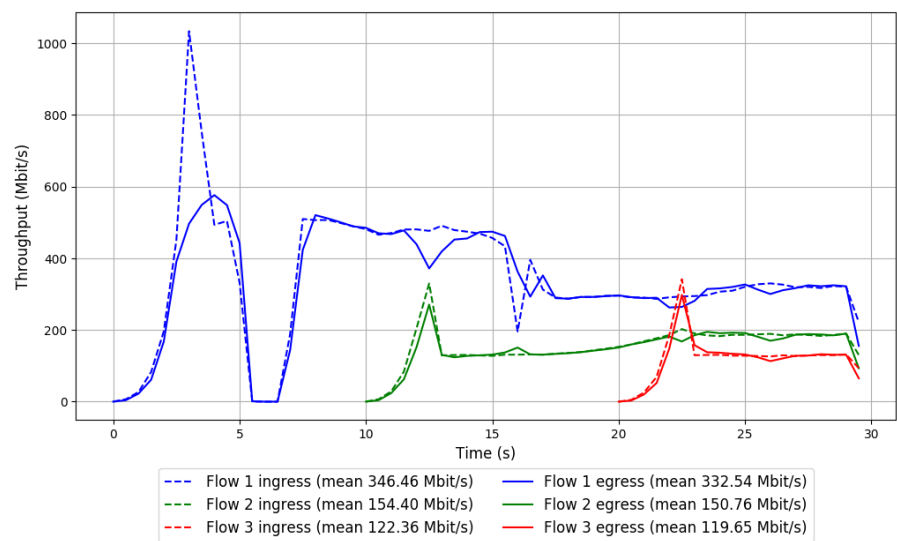
-- Flow 3:

Average throughput: 119.65 Mbit/s

95th percentile per-packet one-way delay: 220.838 ms

Loss rate: 4.42%

Run 9: Report of PCC — Data Link

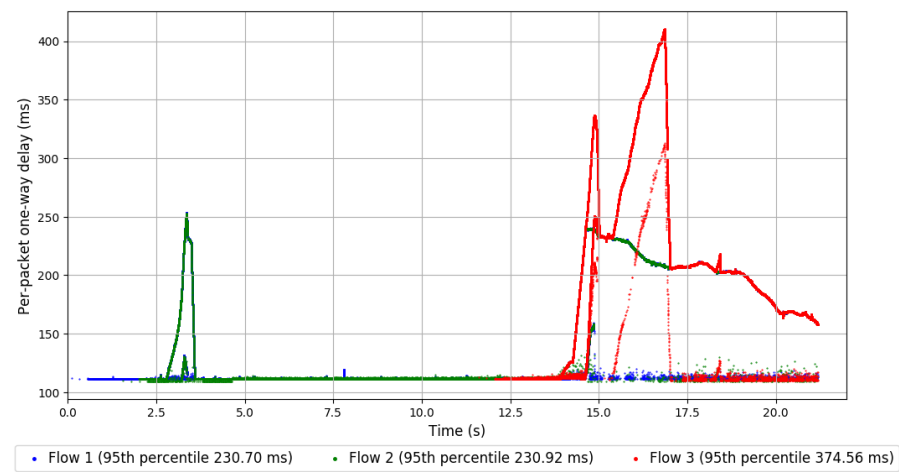
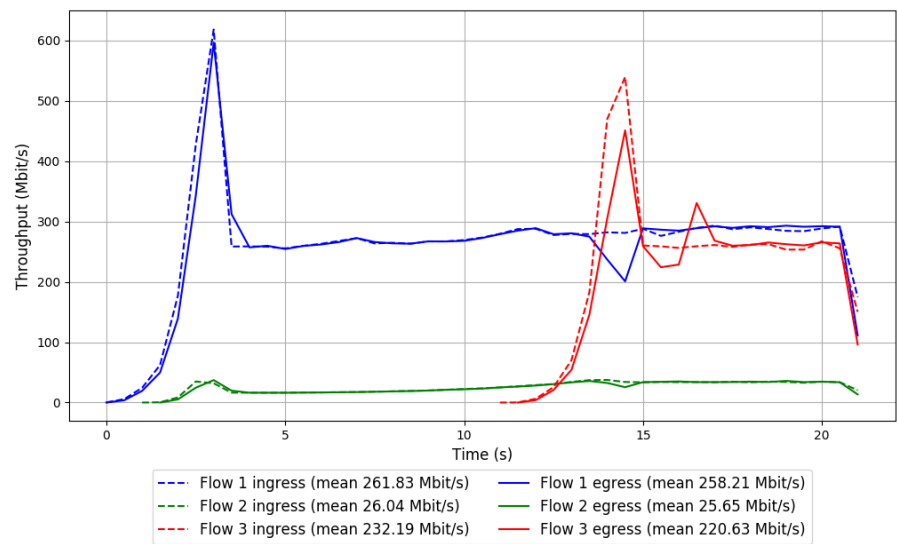


Run 10: Statistics of PCC

Start at: 2018-01-26 11:30:36

End at: 2018-01-26 11:31:06

Run 10: Report of PCC — Data Link

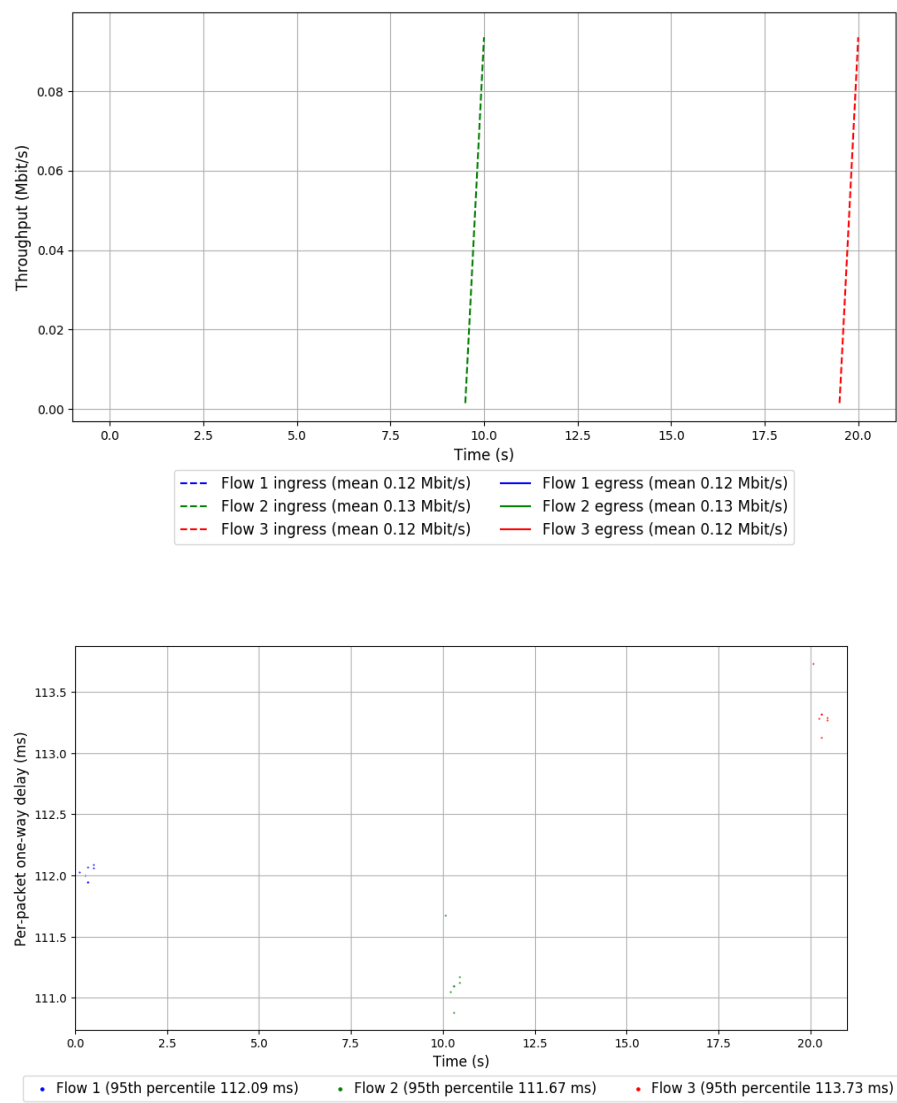


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 09:09:18

End at: 2018-01-26 09:09:48

Run 1: Report of QUIC Cubic — Data Link

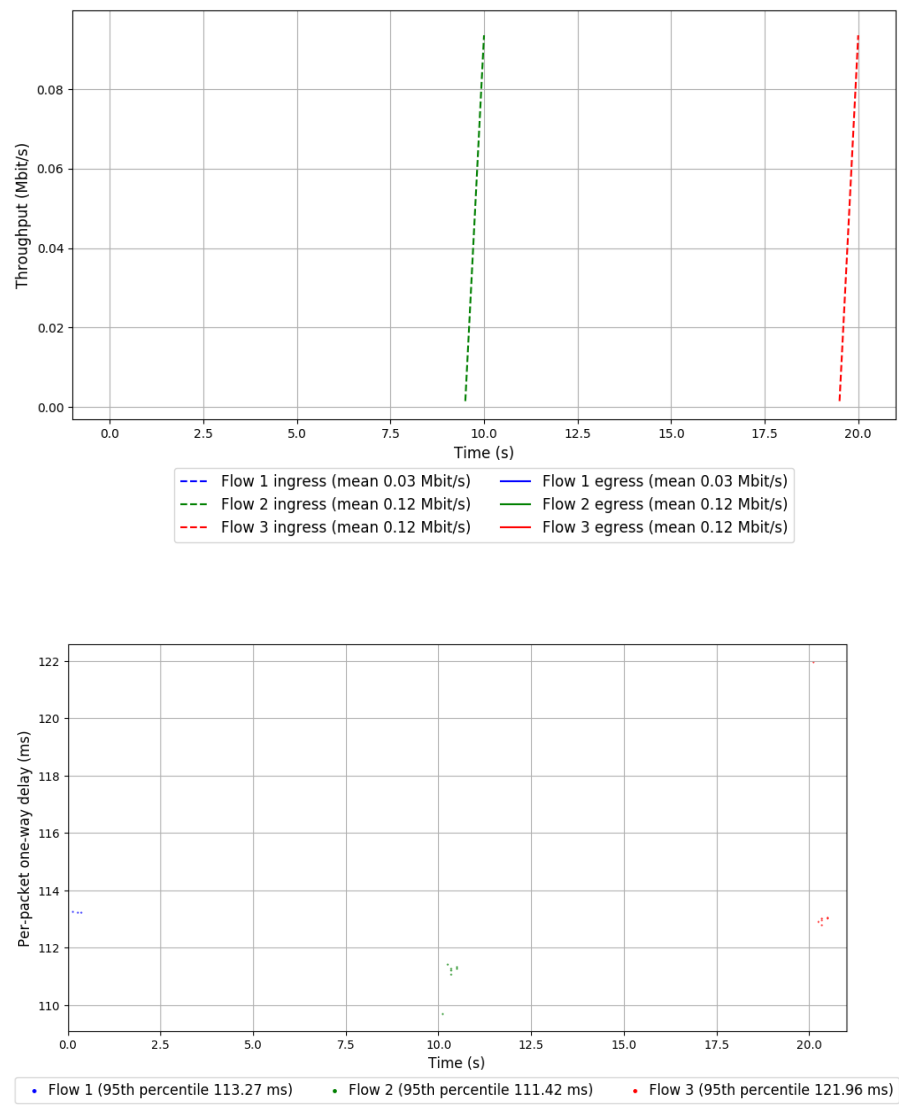


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 09:25:09

End at: 2018-01-26 09:25:39

Run 2: Report of QUIC Cubic — Data Link

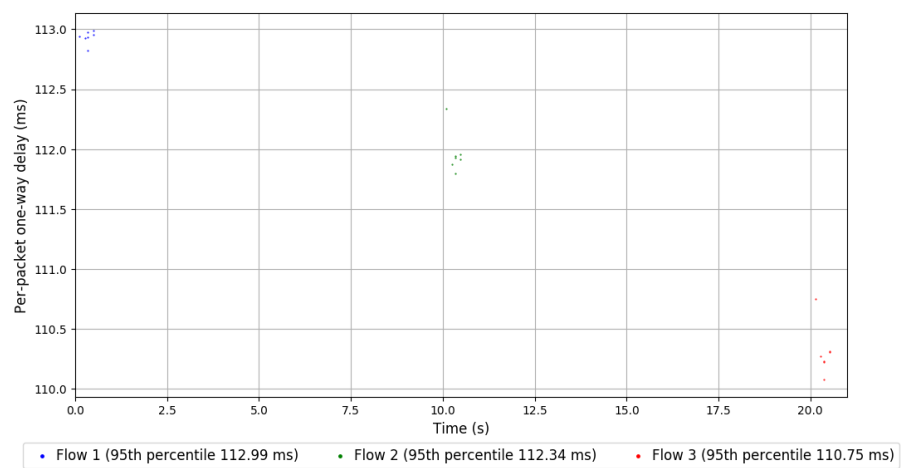
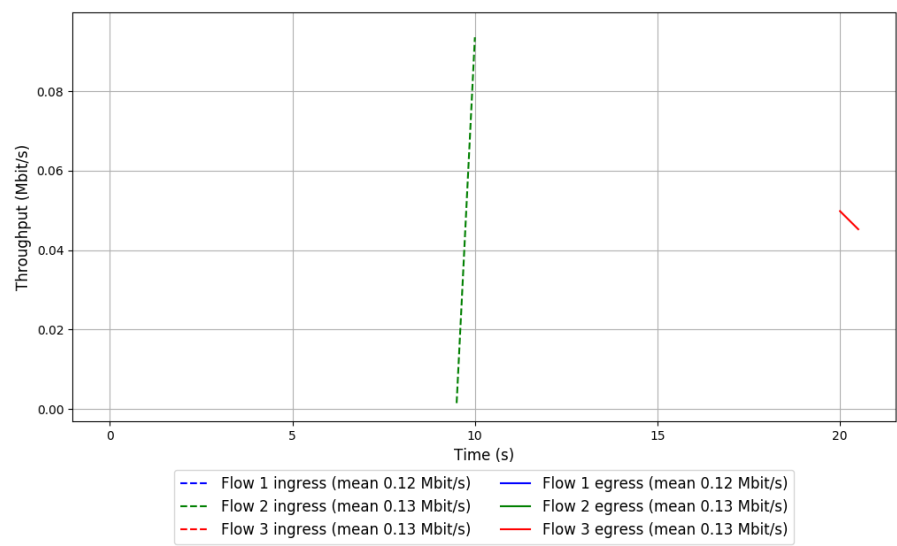


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 09:40:48

End at: 2018-01-26 09:41:19

Run 3: Report of QUIC Cubic — Data Link

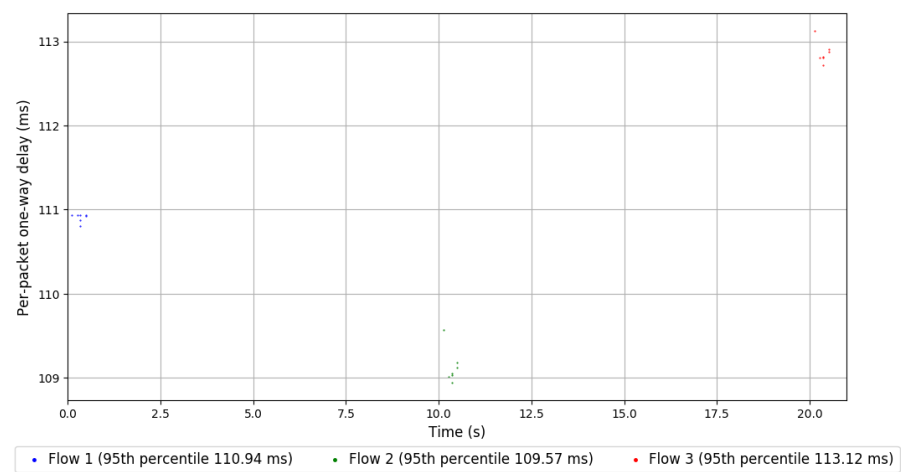
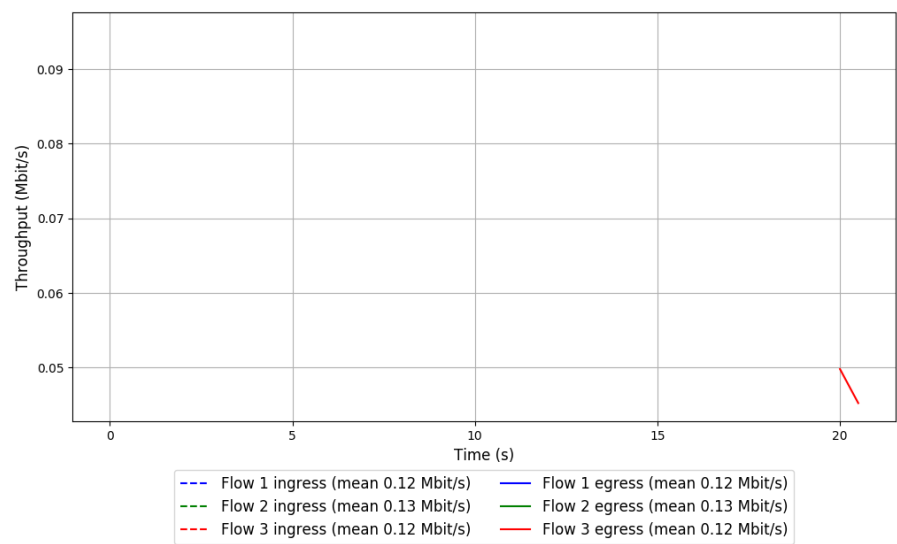


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 09:56:56

End at: 2018-01-26 09:57:26

Run 4: Report of QUIC Cubic — Data Link

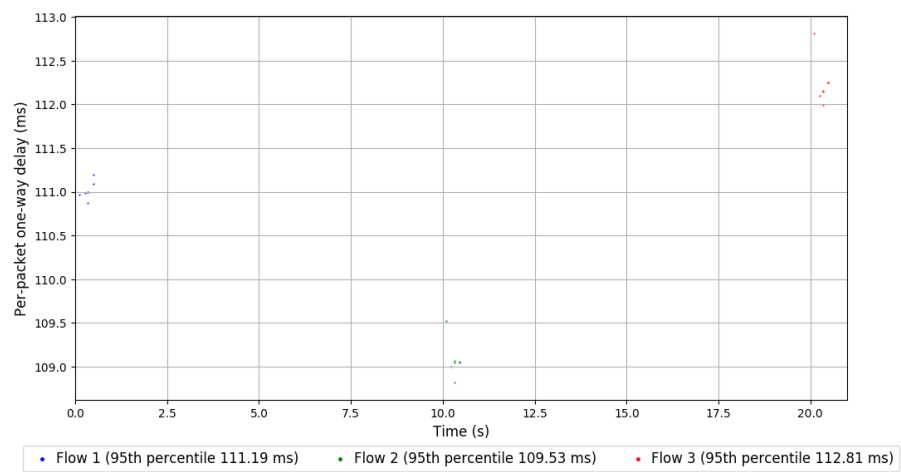
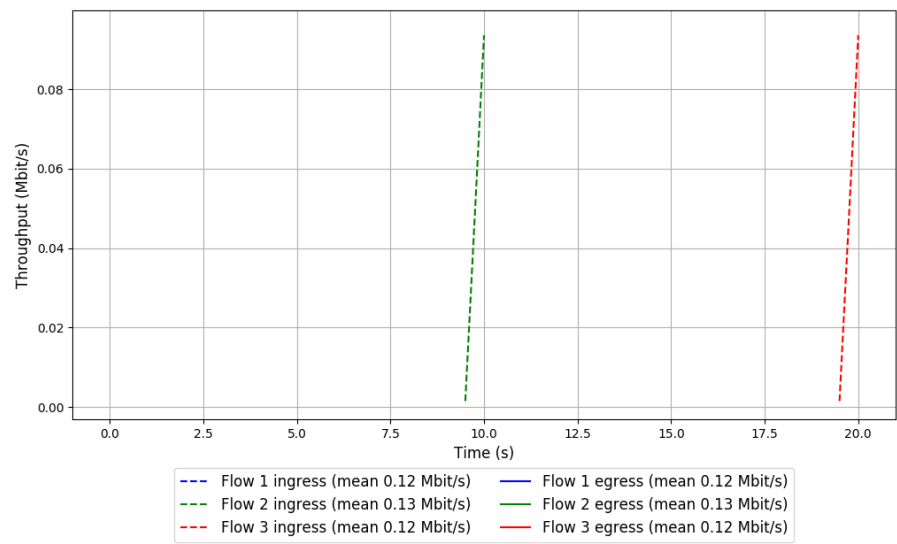


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 10:12:43

End at: 2018-01-26 10:13:13

Run 5: Report of QUIC Cubic — Data Link

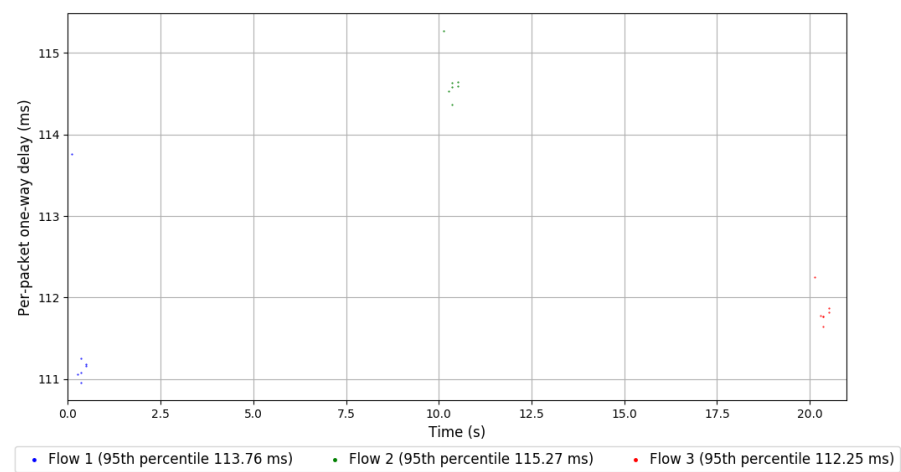
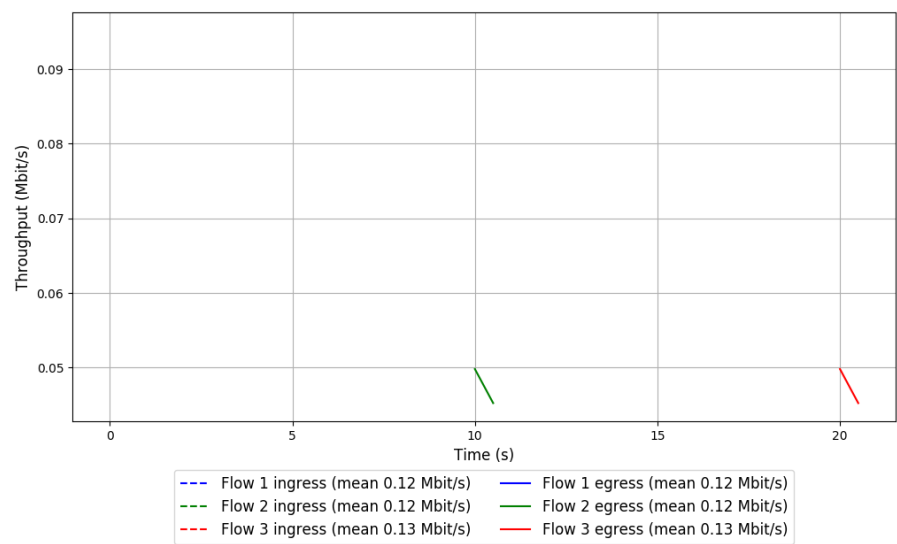


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 10:28:42

End at: 2018-01-26 10:29:12

Run 6: Report of QUIC Cubic — Data Link

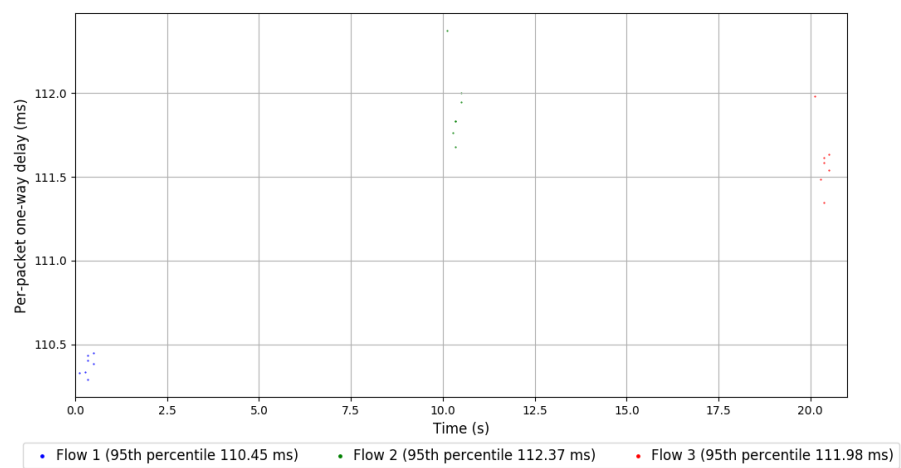
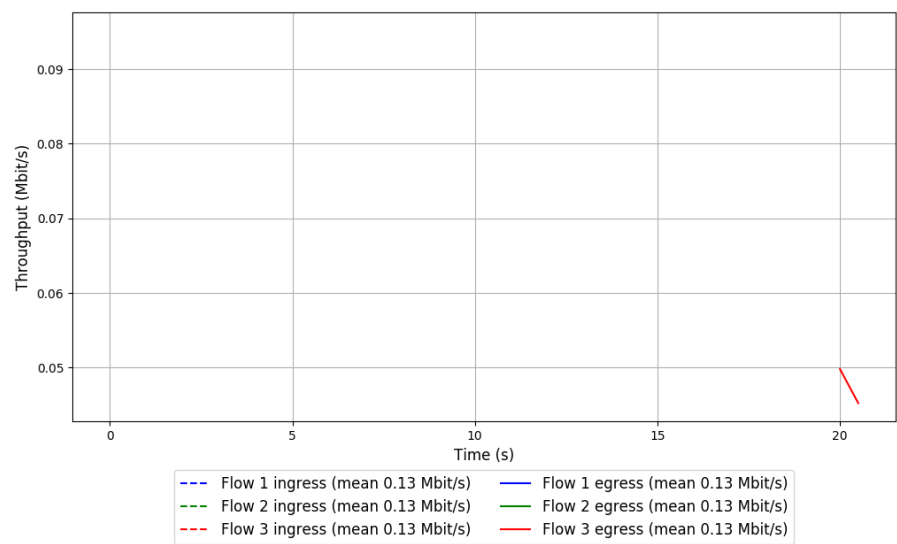


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 10:44:33

End at: 2018-01-26 10:45:03

Run 7: Report of QUIC Cubic — Data Link

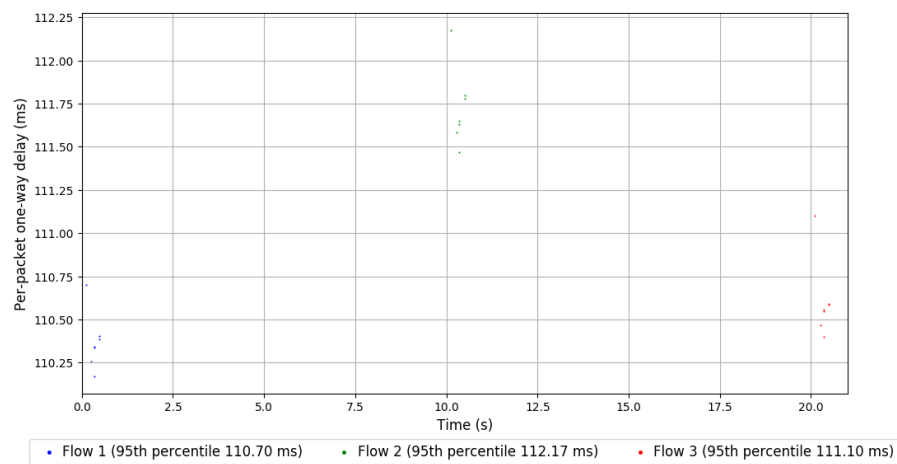
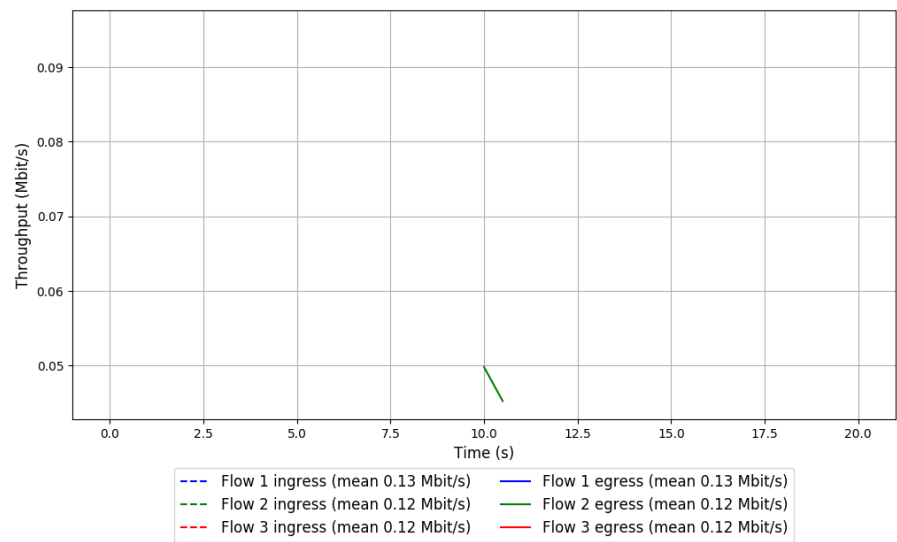


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 11:00:13

End at: 2018-01-26 11:00:43

Run 8: Report of QUIC Cubic — Data Link

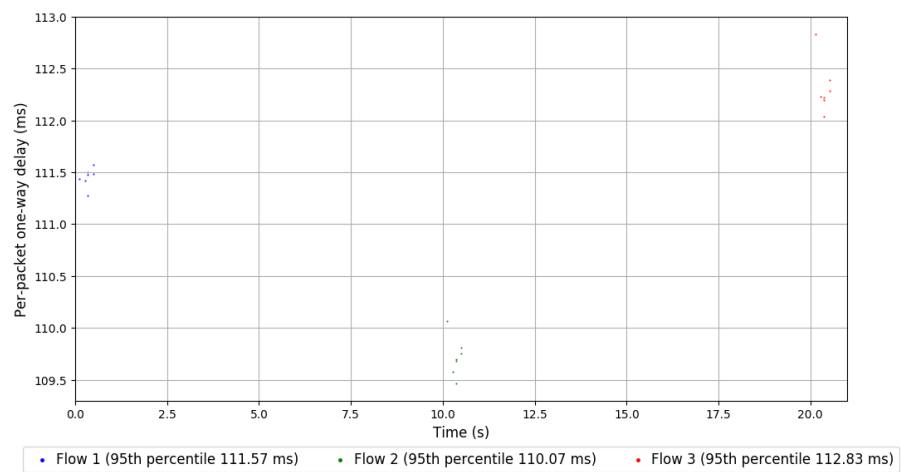
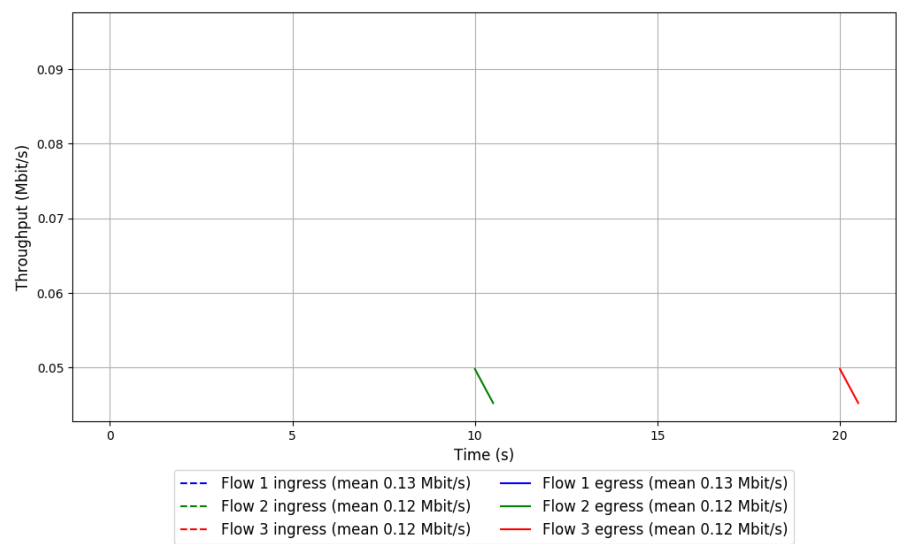


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 11:15:56

End at: 2018-01-26 11:16:26

Run 9: Report of QUIC Cubic — Data Link

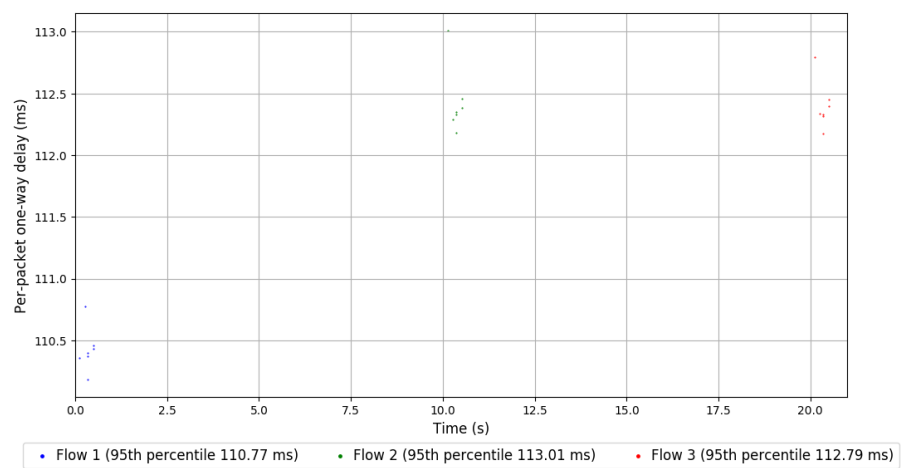
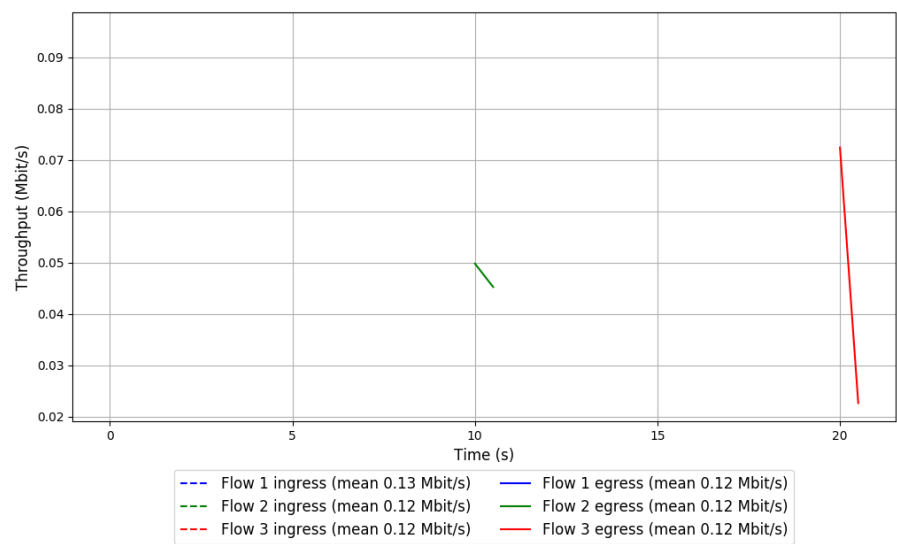


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 11:31:37

End at: 2018-01-26 11:32:07

Run 10: Report of QUIC Cubic — Data Link

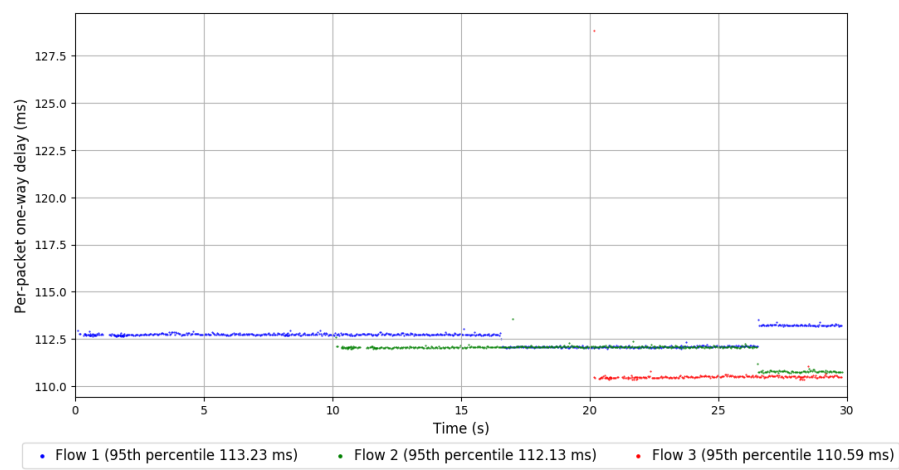
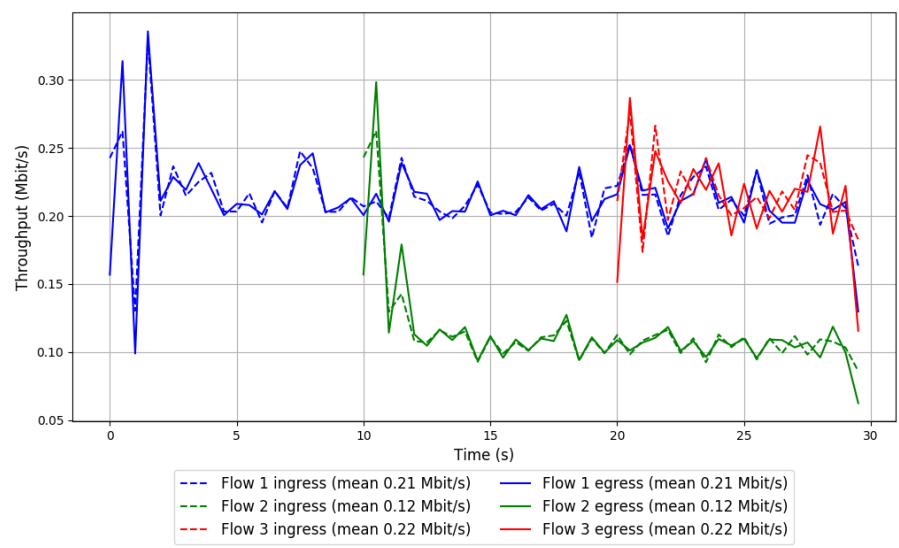


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 09:10:03
End at: 2018-01-26 09:10:33

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 113.200 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.231 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 112.134 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.586 ms
Loss rate: 2.27%
```

Run 1: Report of SReAM — Data Link

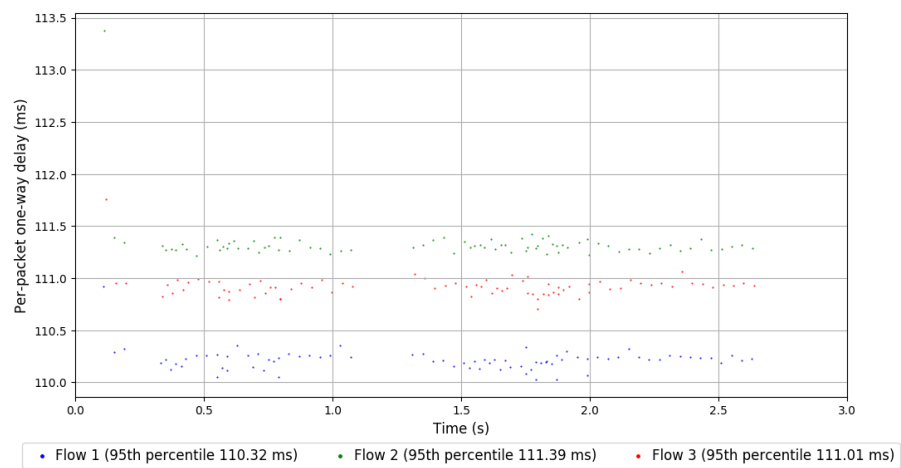
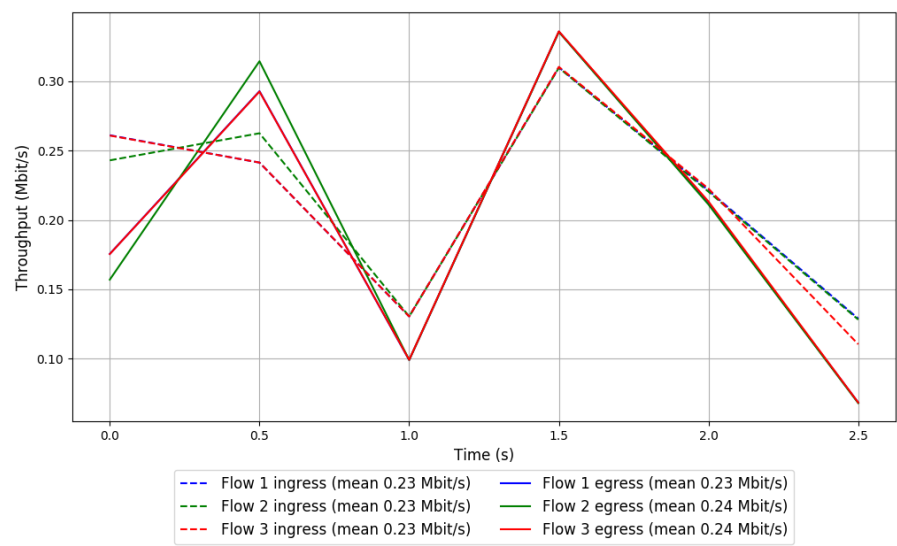


Run 2: Statistics of SReAM

Start at: 2018-01-26 09:25:55

End at: 2018-01-26 09:26:25

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-26 09:41:34

End at: 2018-01-26 09:42:04

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.271 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.000 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.296 ms

Loss rate: 1.06%

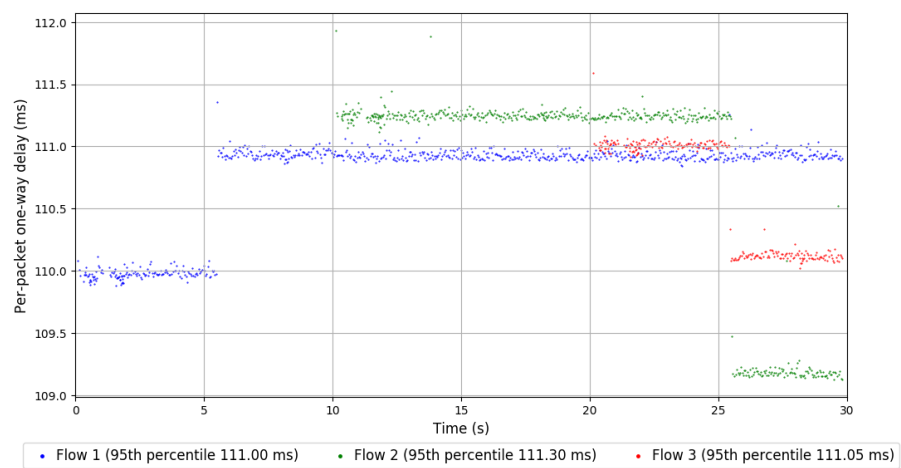
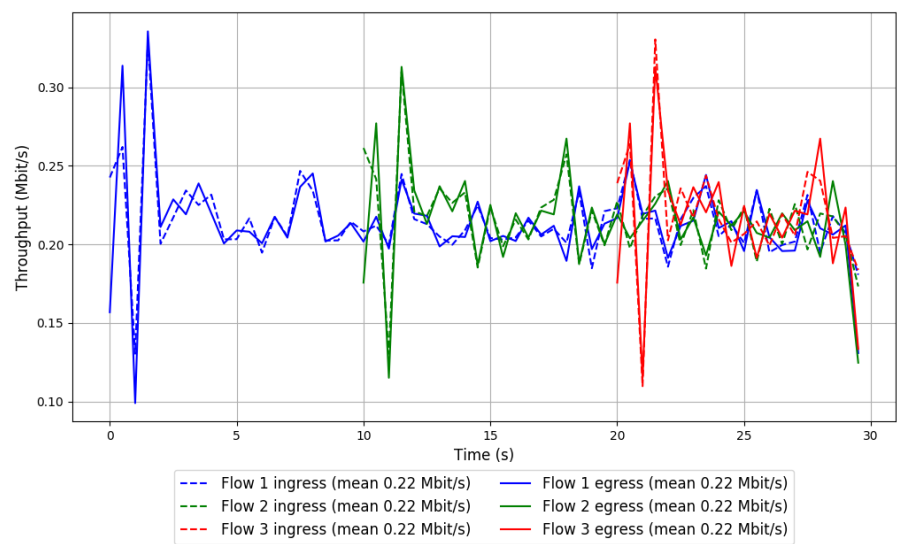
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.049 ms

Loss rate: 1.87%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-26 09:57:42

End at: 2018-01-26 09:58:12

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.347 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.885 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.705 ms

Loss rate: 1.05%

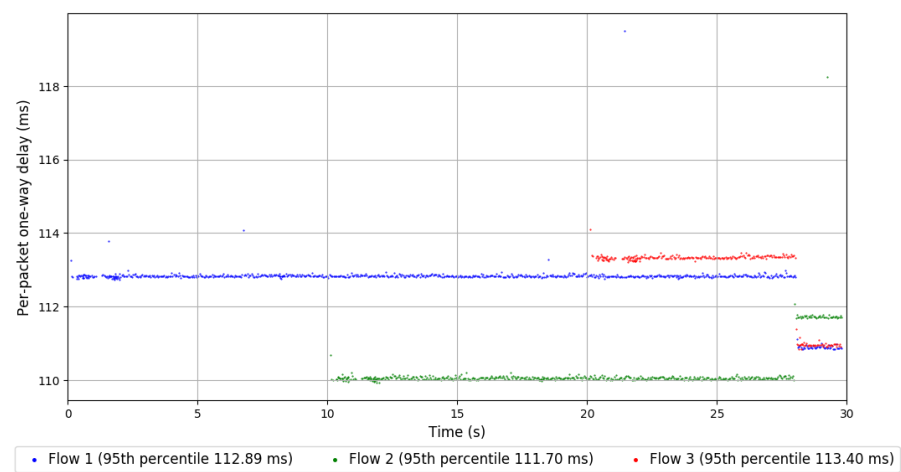
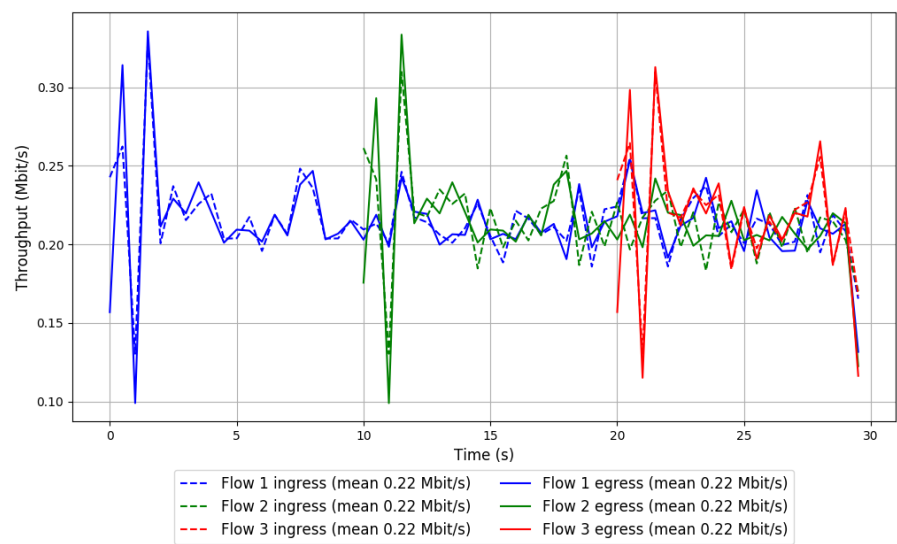
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.397 ms

Loss rate: 2.27%

Run 4: Report of SReAM — Data Link

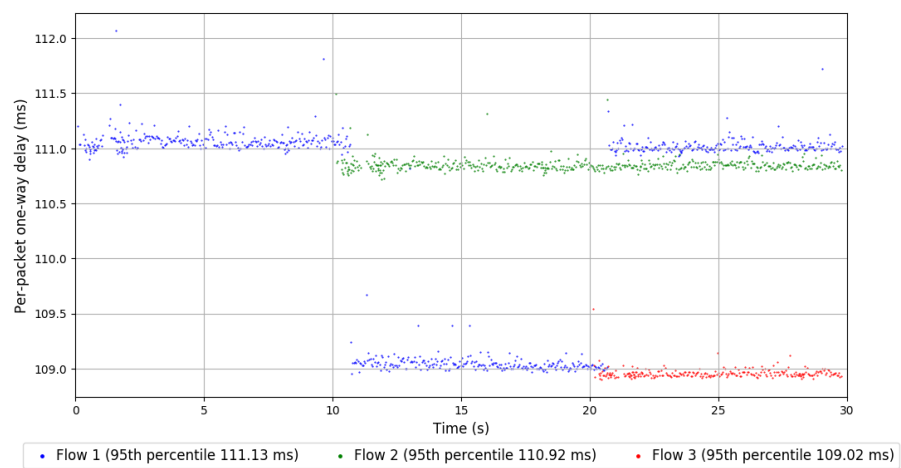
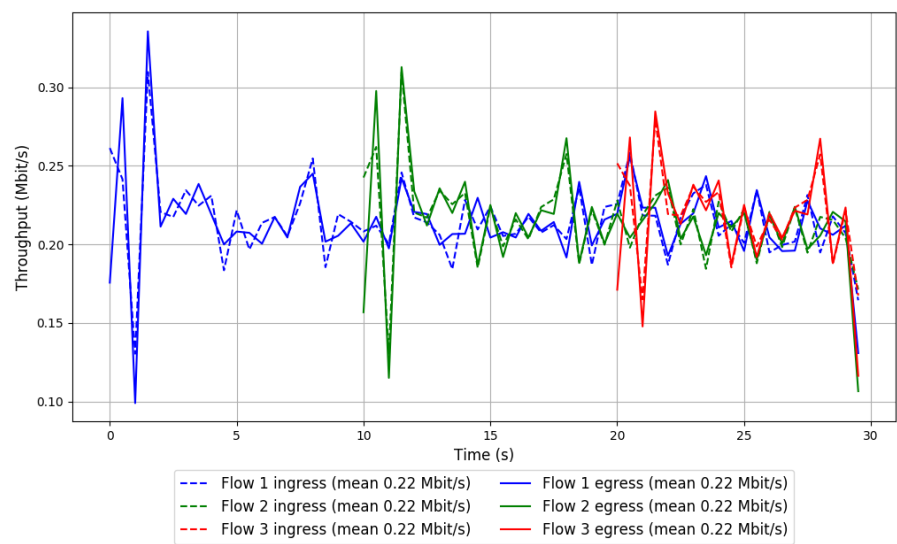


```
Run 5: Statistics of SCReAM

Start at: 2018-01-26 10:13:29
End at: 2018-01-26 10:13:59

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.096 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.131 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.918 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.017 ms
Loss rate: 2.26%
```

Run 5: Report of SReAM — Data Link

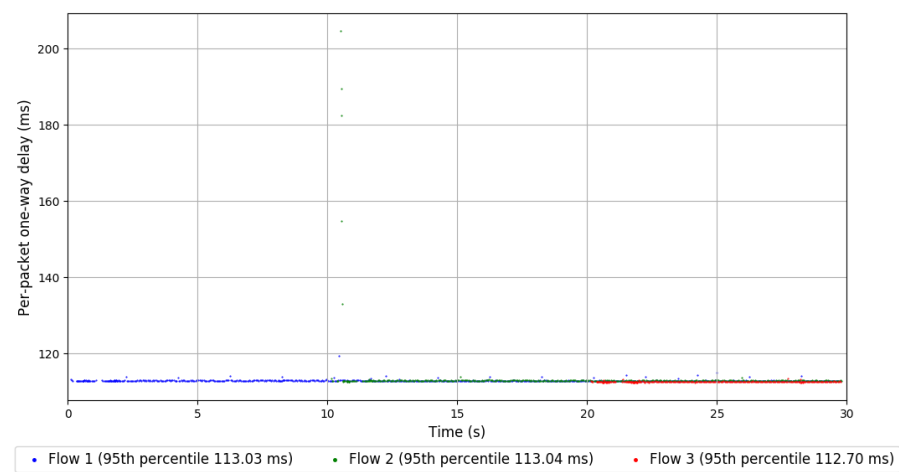
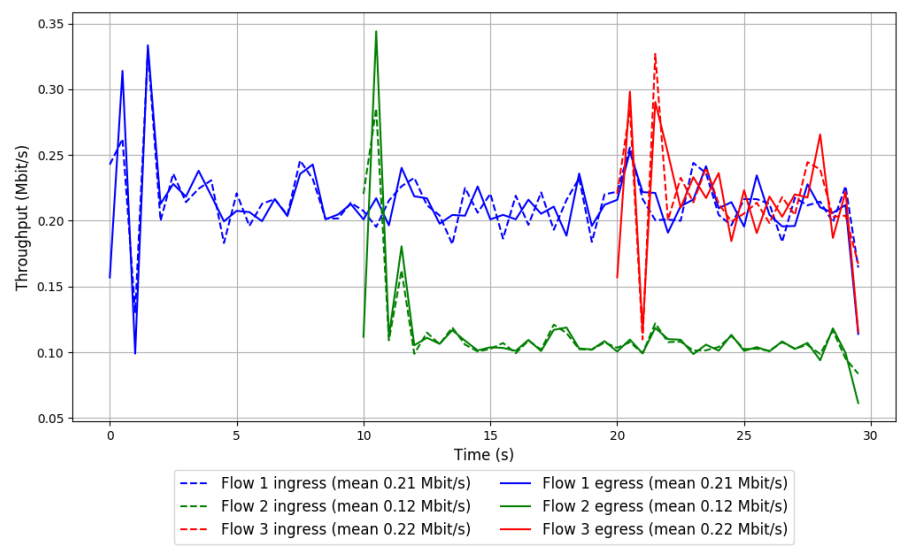


```
Run 6: Statistics of SCReAM

Start at: 2018-01-26 10:29:28
End at: 2018-01-26 10:29:58

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 113.028 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.030 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 113.044 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.697 ms
Loss rate: 1.92%
```

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-01-26 10:45:18

End at: 2018-01-26 10:45:48

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 113.209 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.631 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.531 ms

Loss rate: 1.25%

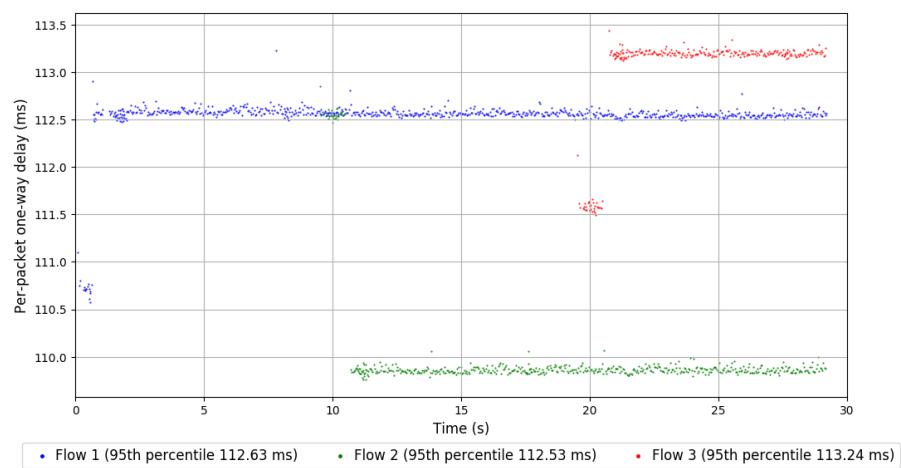
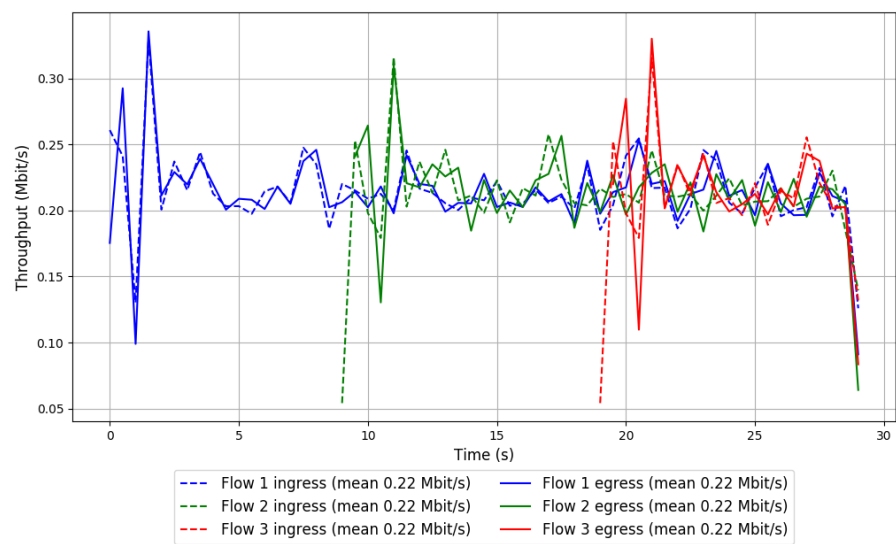
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.242 ms

Loss rate: 2.25%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-26 11:00:58

End at: 2018-01-26 11:01:28

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 112.623 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.654 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.797 ms

Loss rate: 1.25%

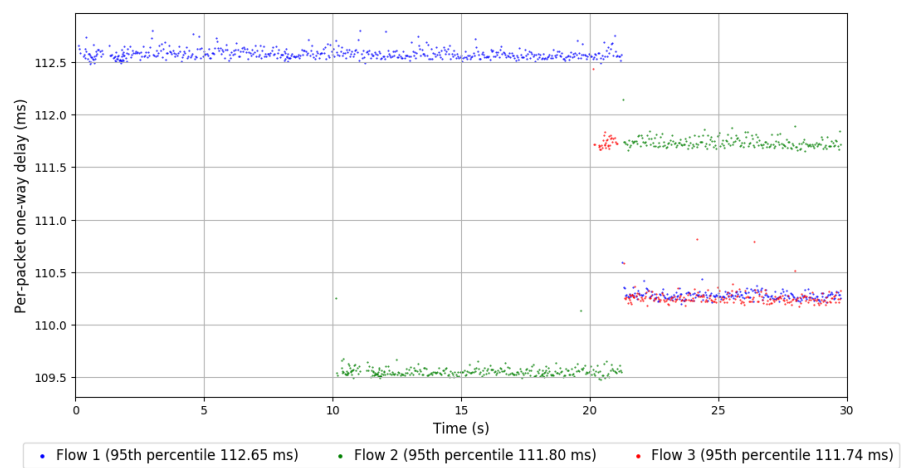
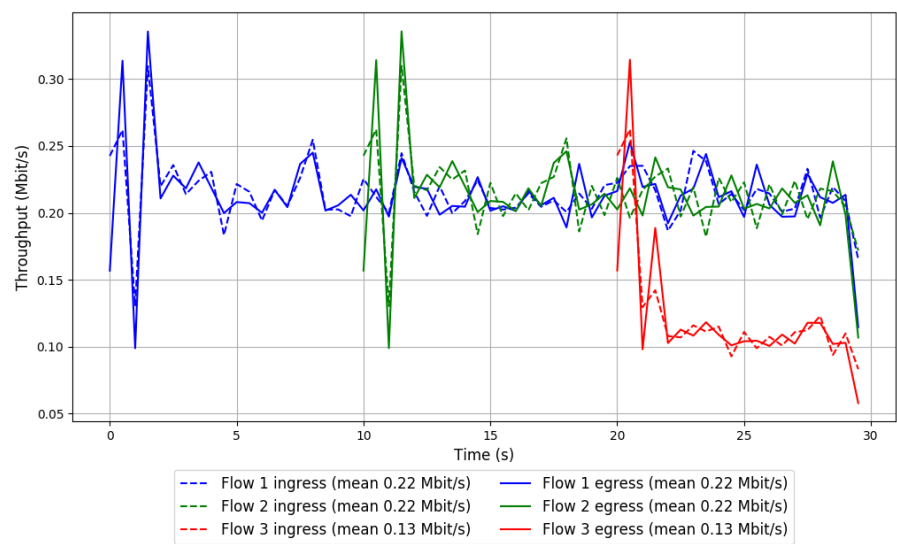
-- Flow 3:

Average throughput: 0.13 Mbit/s

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

Loss rate: 1.99%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-26 11:16:42

End at: 2018-01-26 11:17:12

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.210 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.226 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 1.06%

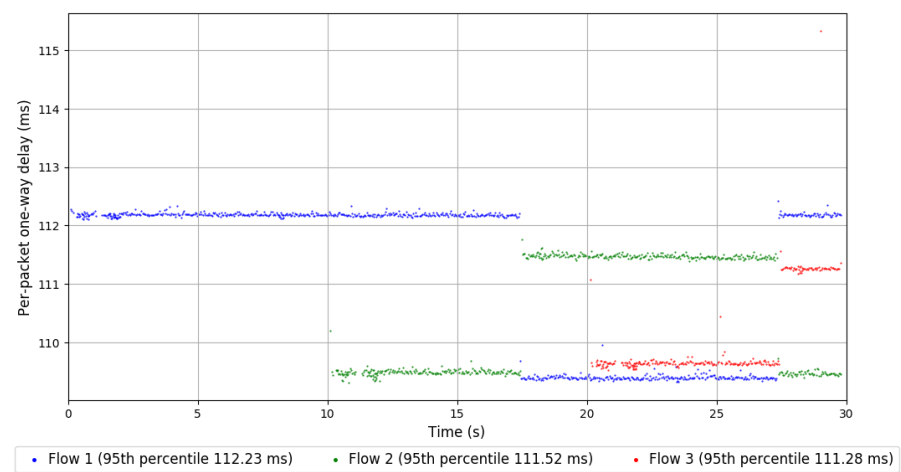
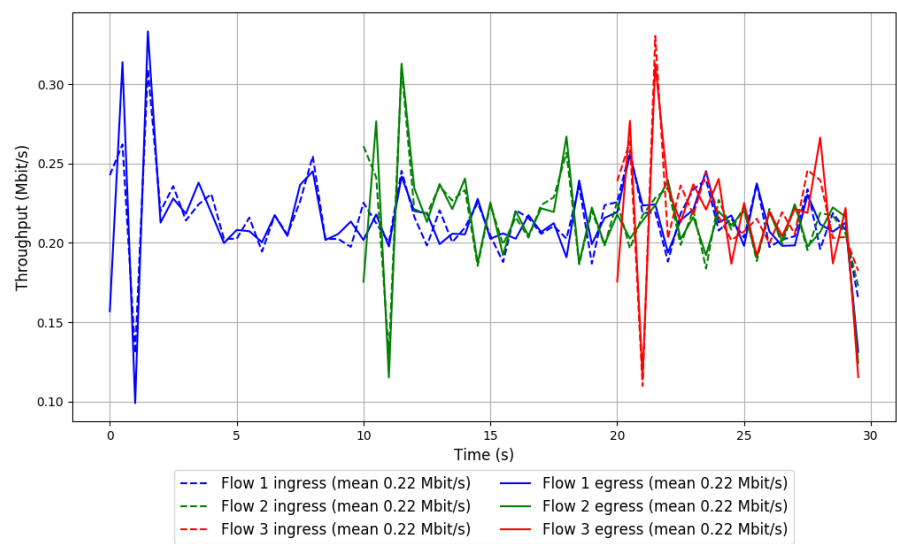
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.281 ms

Loss rate: 2.24%

Run 9: Report of SReAM — Data Link

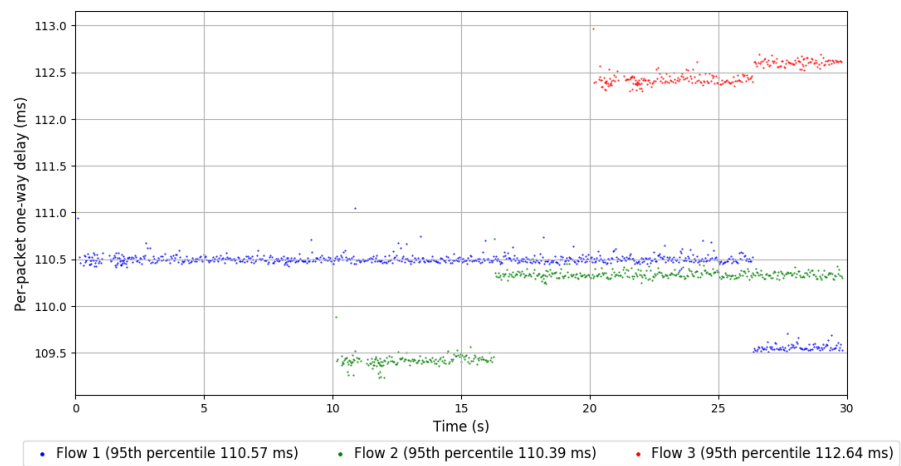
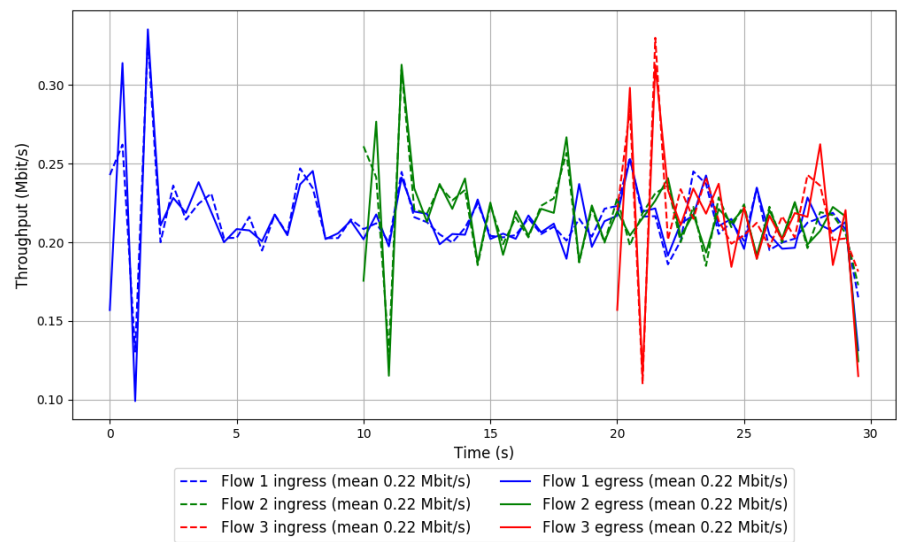


```
Run 10: Statistics of SCReAM

Start at: 2018-01-26 11:32:23
End at: 2018-01-26 11:32:53

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.570 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.567 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.390 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.642 ms
Loss rate: 2.25%
```

Run 10: Report of SReAM — Data Link

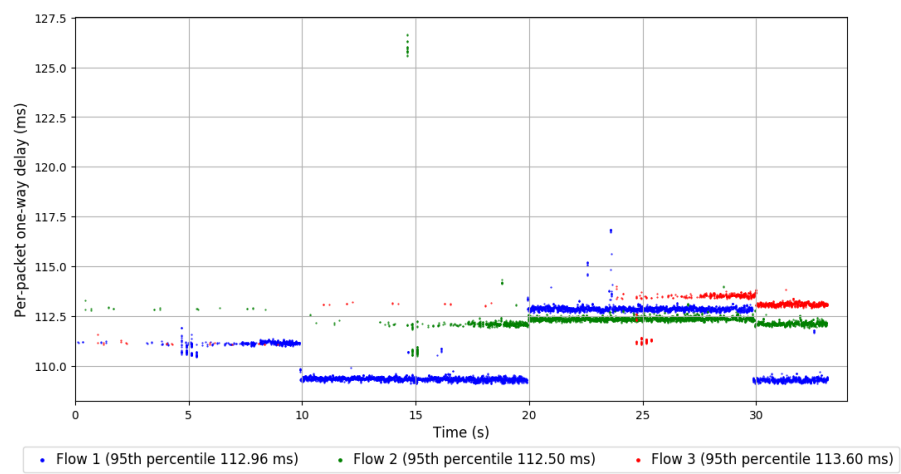
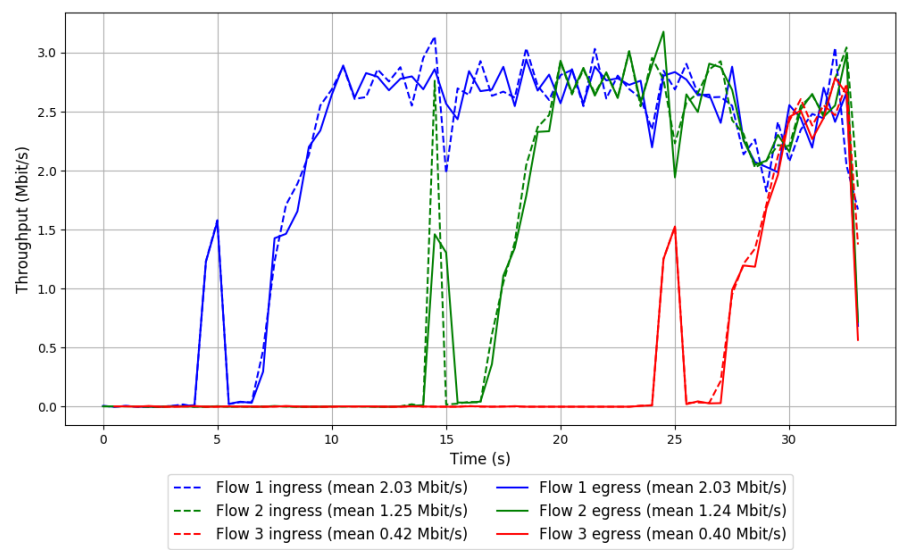


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 09:03:13
End at: 2018-01-26 09:03:43

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 113.157 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 112.957 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 112.499 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 113.601 ms
Loss rate: 5.07%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 09:19:03

End at: 2018-01-26 09:19:33

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 113.214 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 113.254 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 112.482 ms

Loss rate: 1.21%

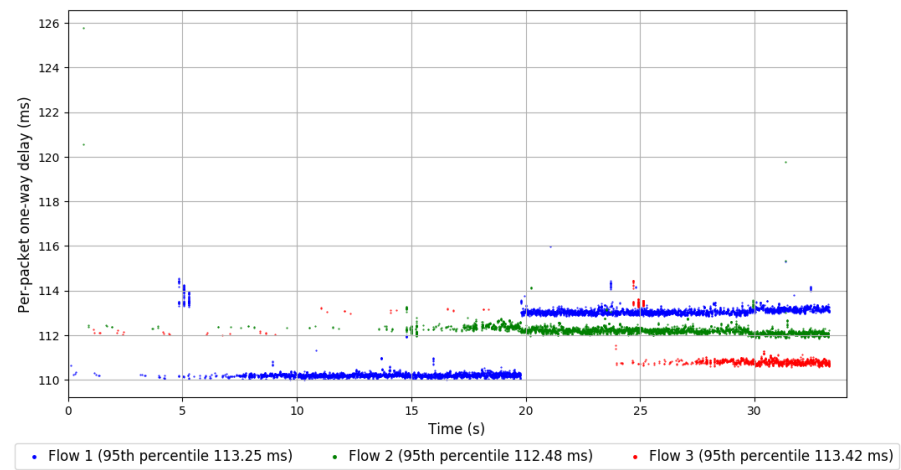
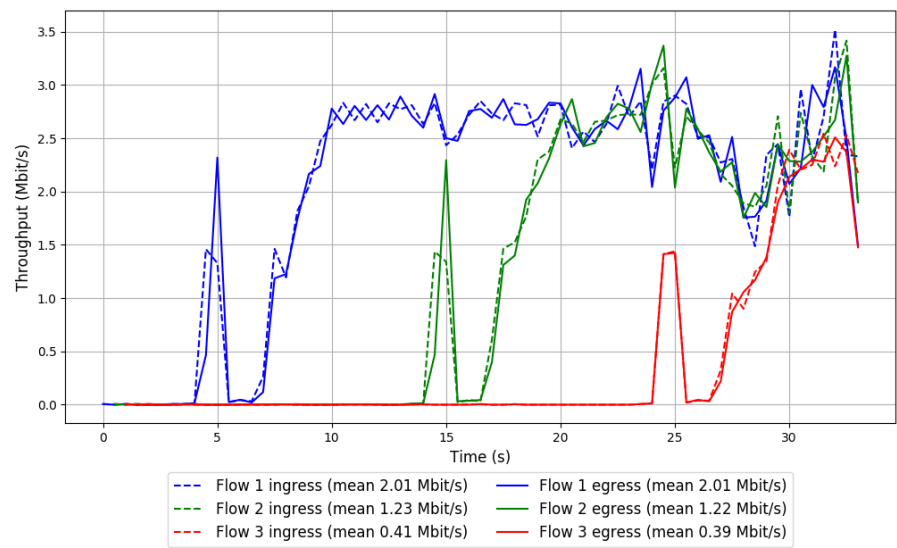
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 113.421 ms

Loss rate: 5.28%

Run 2: Report of WebRTC media — Data Link

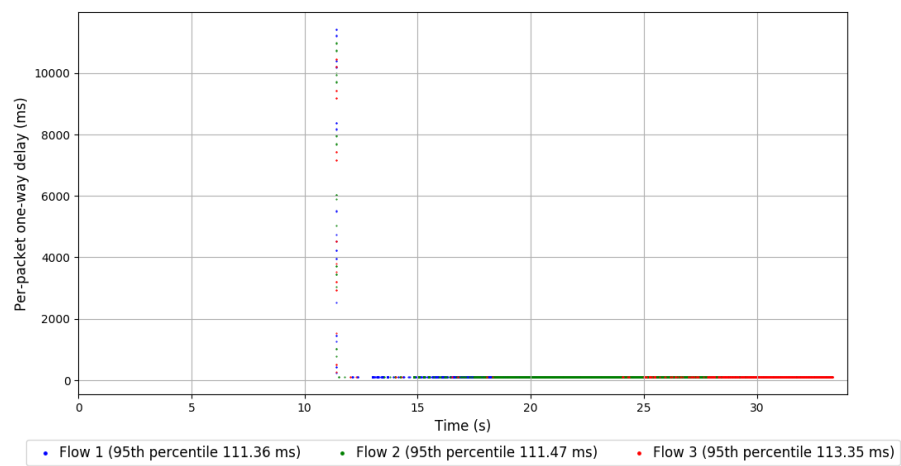
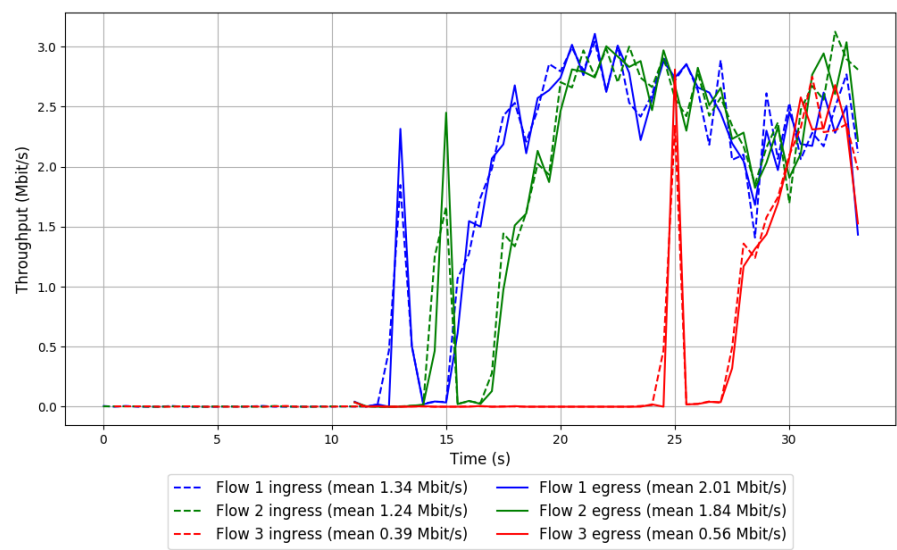


Run 3: Statistics of WebRTC media

Start at: 2018-01-26 09:34:38

End at: 2018-01-26 09:35:08

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 09:50:39

End at: 2018-01-26 09:51:09

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 113.325 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 113.342 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 110.061 ms

Loss rate: 1.65%

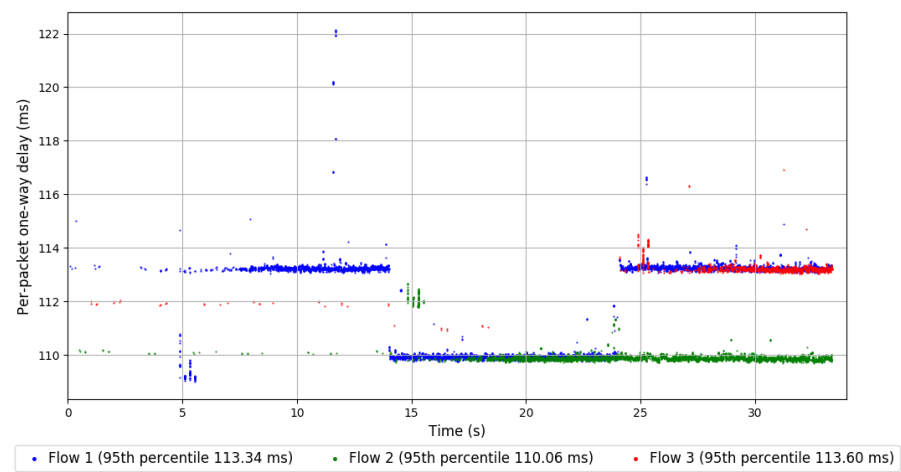
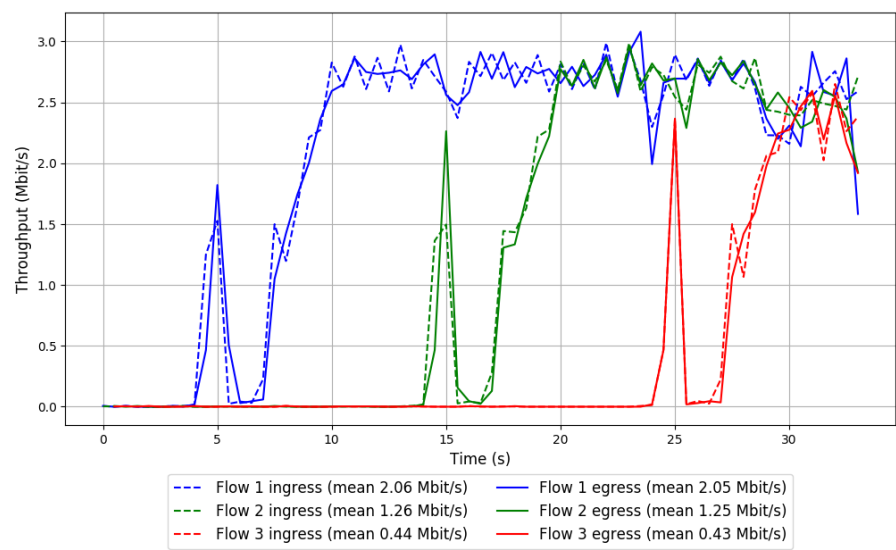
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.602 ms

Loss rate: 3.83%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 10:06:33

End at: 2018-01-26 10:07:03

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 113.794 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 113.829 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 111.098 ms

Loss rate: 1.37%

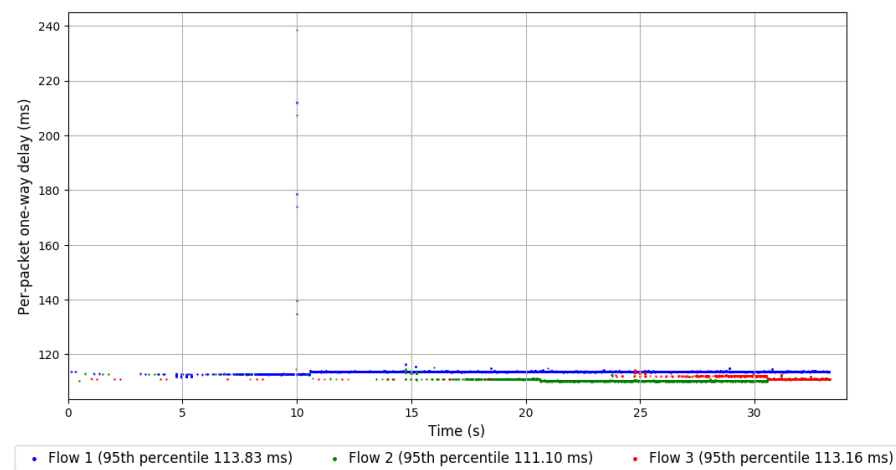
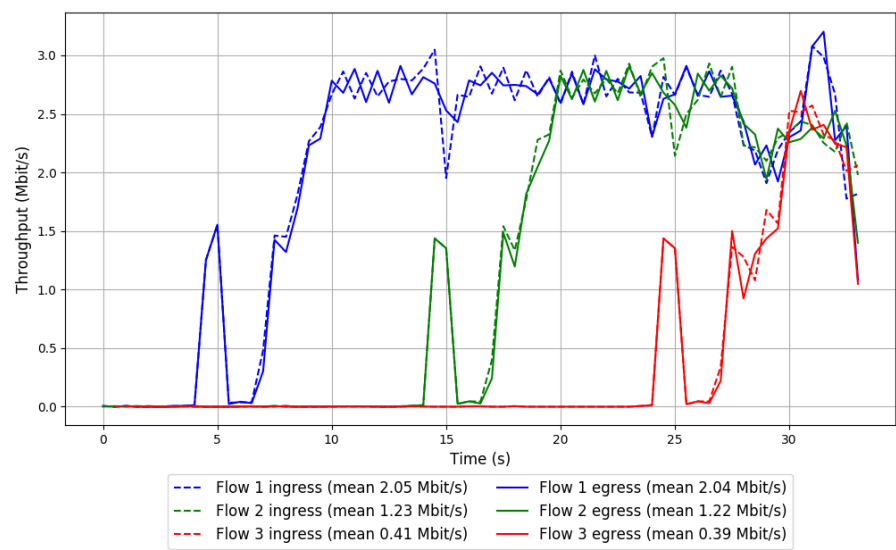
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 113.158 ms

Loss rate: 5.15%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 10:22:32

End at: 2018-01-26 10:23:02

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 112.799 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 111.053 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 1.23 Mbit/s

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

Loss rate: 1.78%

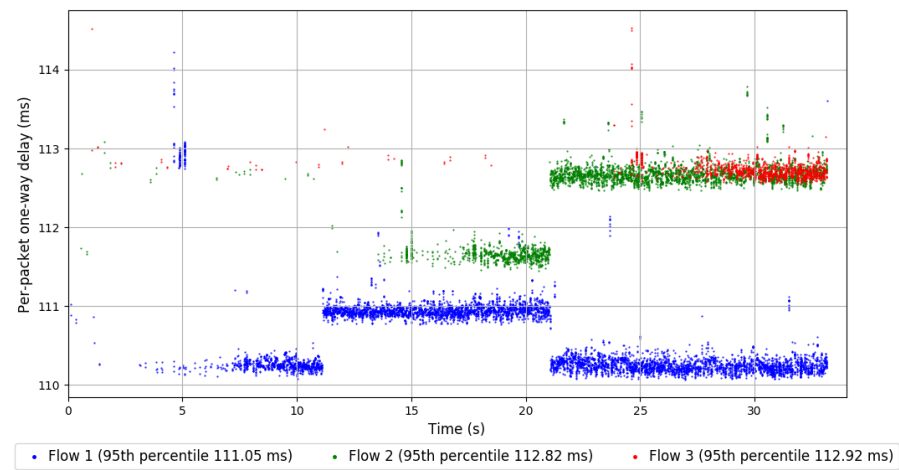
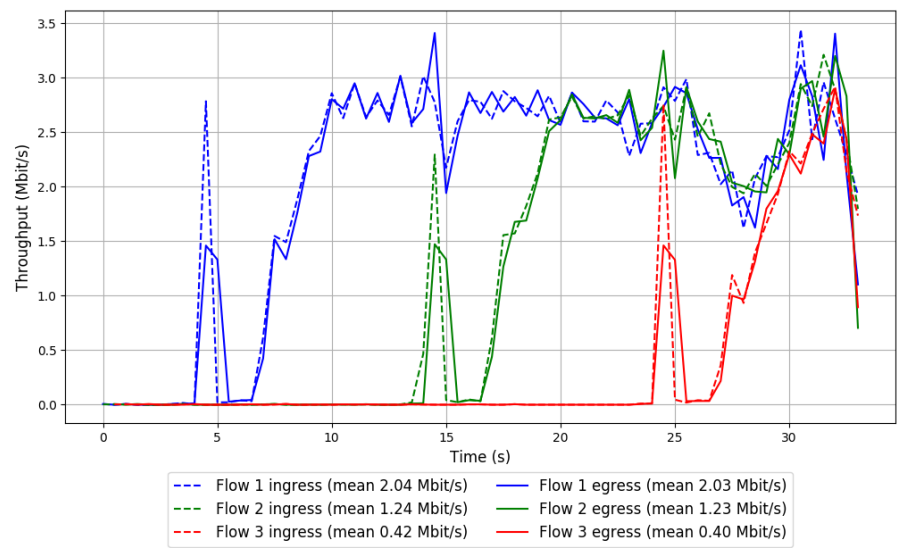
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 112.916 ms

Loss rate: 4.61%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 10:38:29

End at: 2018-01-26 10:38:59

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 112.769 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 2.03 Mbit/s

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

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 112.573 ms

Loss rate: 1.10%

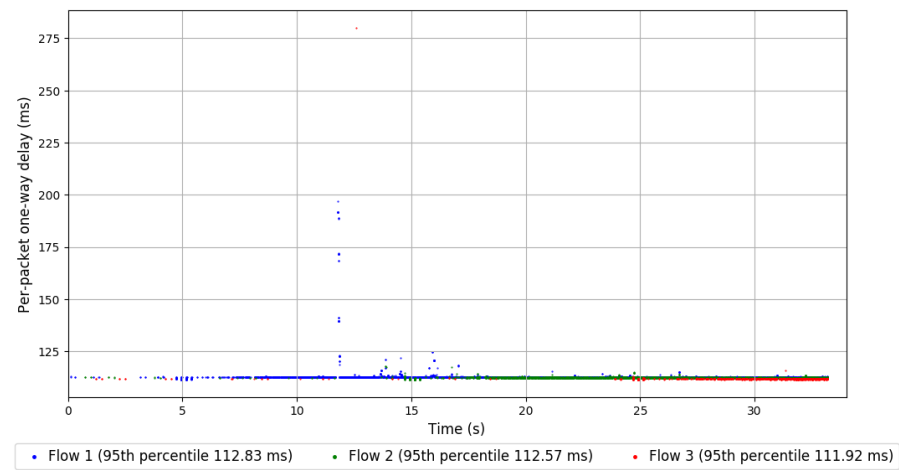
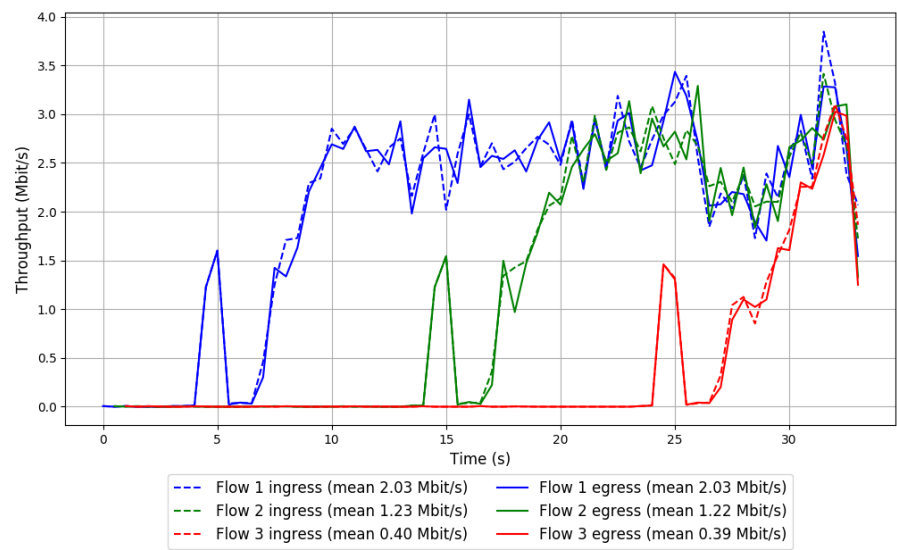
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 111.925 ms

Loss rate: 4.21%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 10:54:10

End at: 2018-01-26 10:54:40

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 112.098 ms

Loss rate: 2.63%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 112.107 ms

Loss rate: 3.10%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 110.998 ms

Loss rate: 1.22%

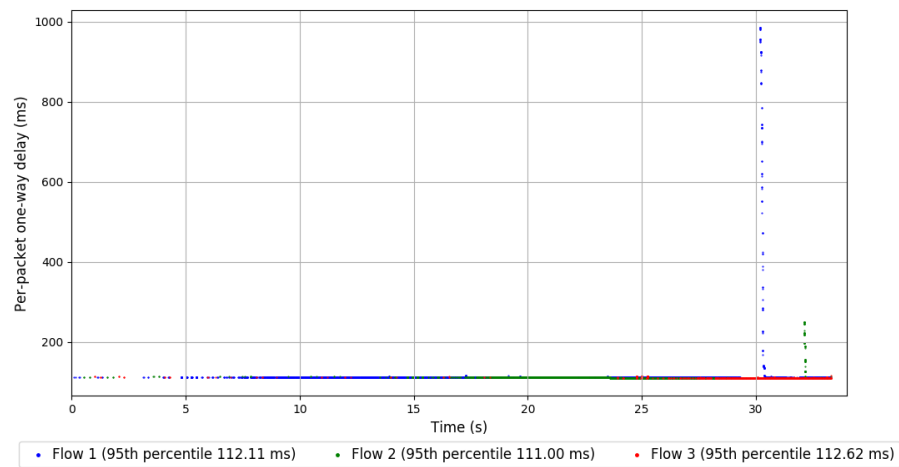
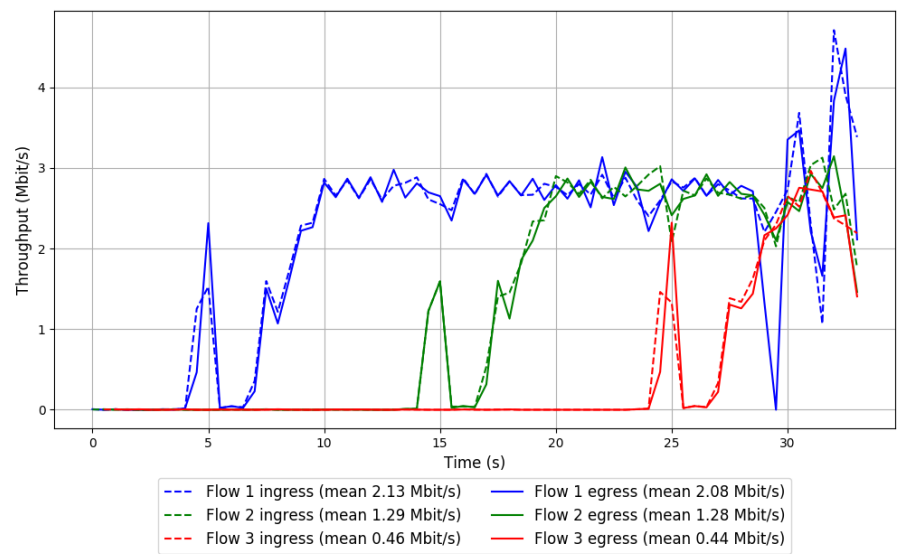
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 112.622 ms

Loss rate: 4.42%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 11:09:36

End at: 2018-01-26 11:10:06

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 112.509 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 112.475 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 109.907 ms

Loss rate: 1.35%

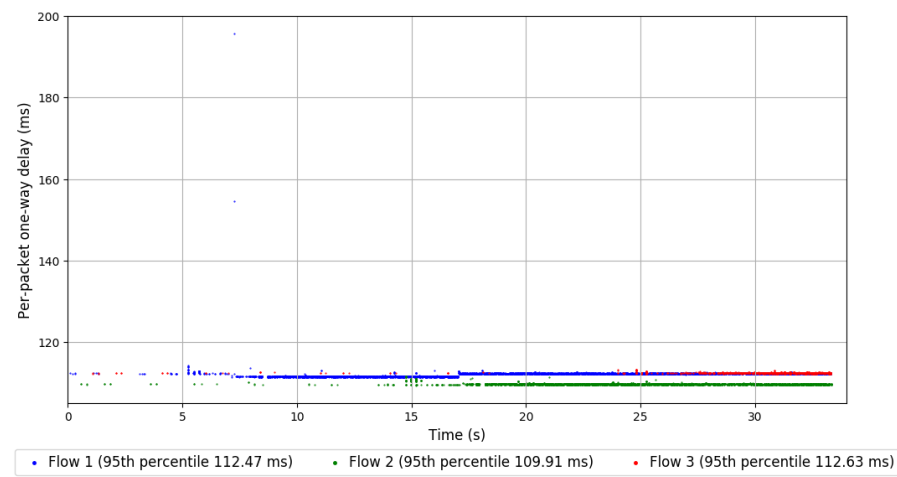
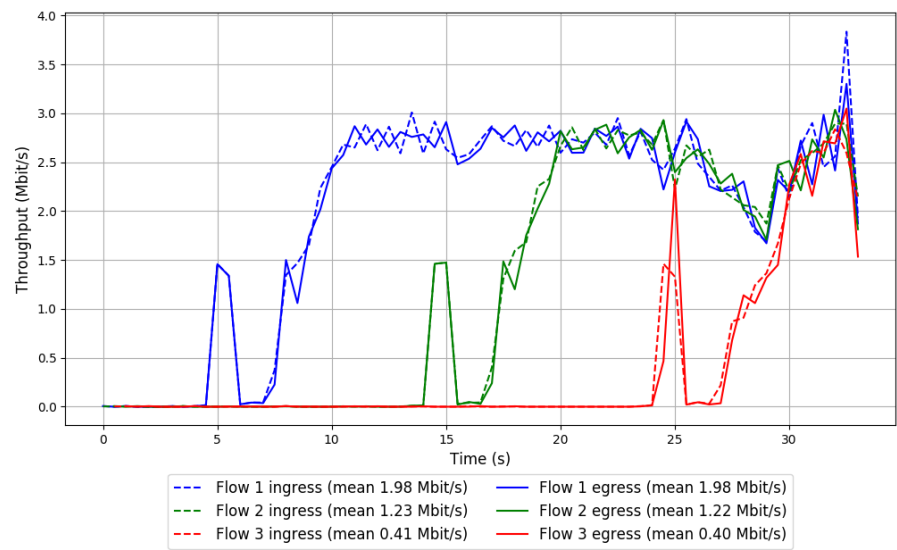
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 112.627 ms

Loss rate: 3.67%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 11:25:33

End at: 2018-01-26 11:26:03

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 114.554 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 114.629 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 110.403 ms

Loss rate: 1.45%

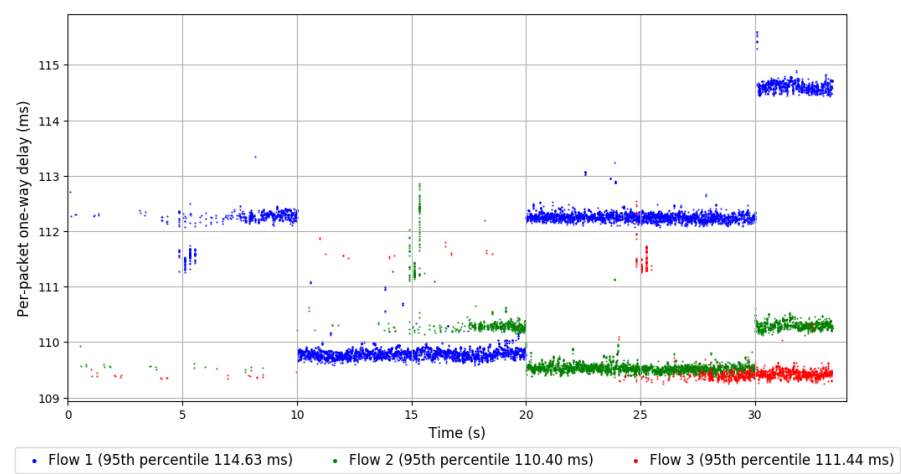
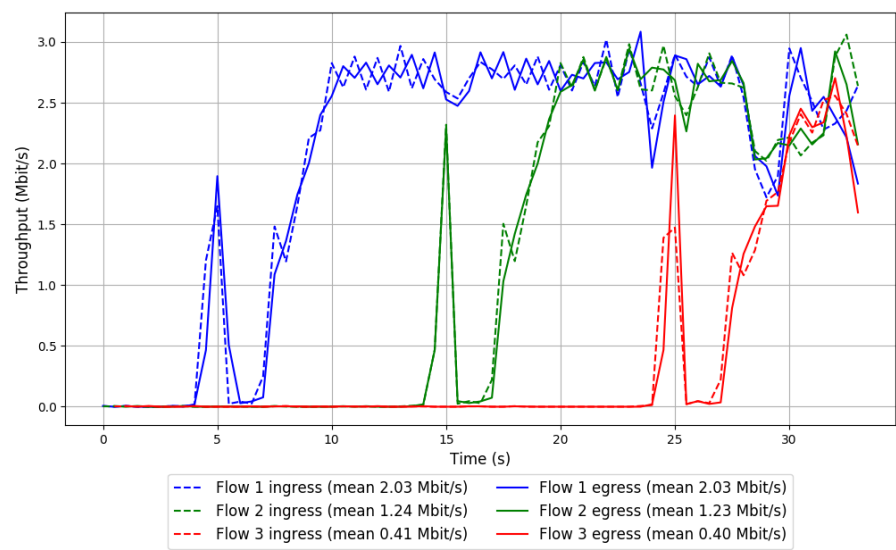
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 111.437 ms

Loss rate: 3.94%

Run 10: Report of WebRTC media — Data Link

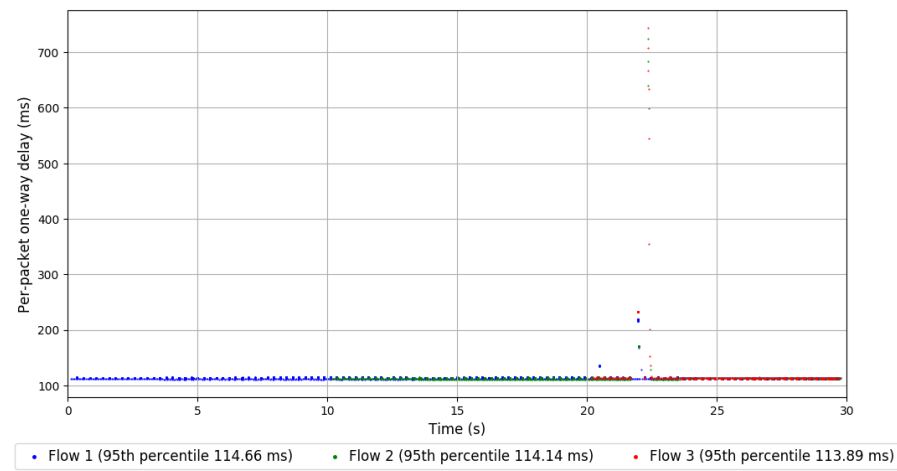
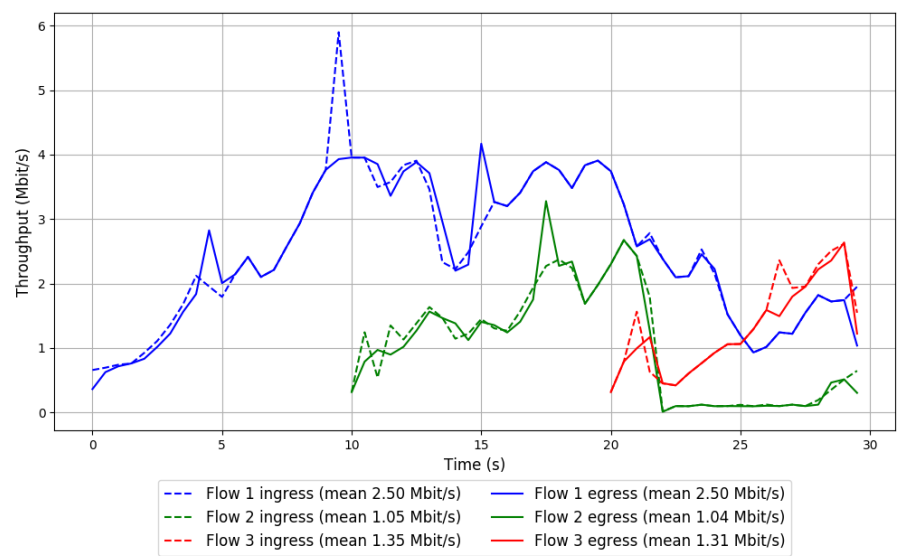


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 09:18:16
End at: 2018-01-26 09:18:46

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 114.578 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 114.659 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 114.141 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 113.886 ms
Loss rate: 5.89%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 09:33:51

End at: 2018-01-26 09:34:21

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 114.056 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 2.13 Mbit/s

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

Loss rate: 1.35%

-- Flow 2:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 113.977 ms

Loss rate: 2.03%

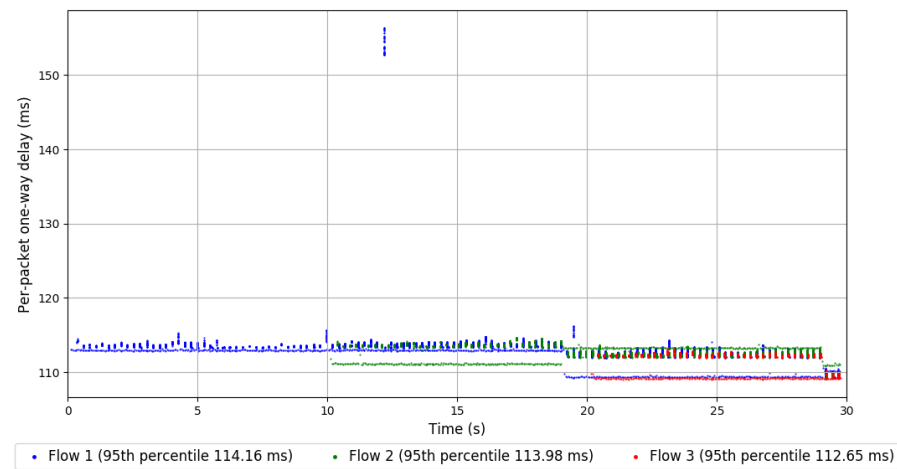
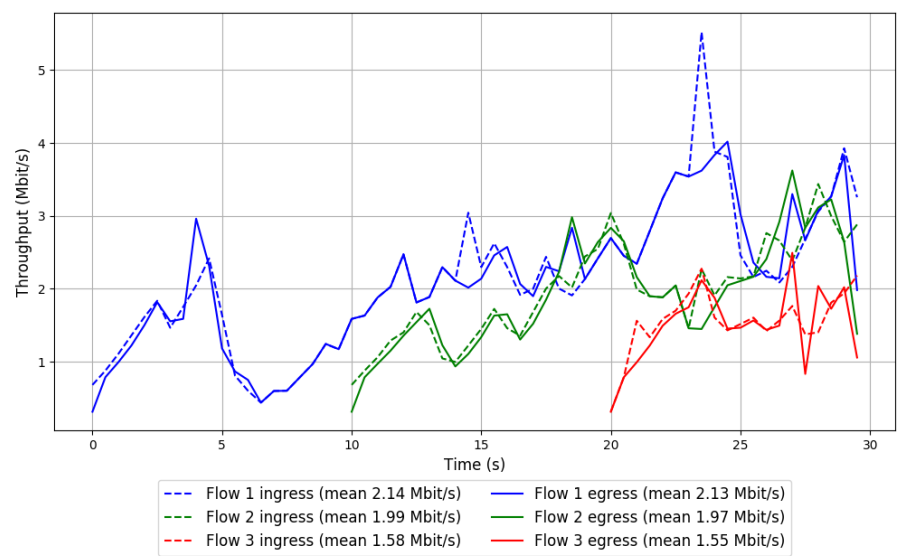
-- Flow 3:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 112.647 ms

Loss rate: 4.23%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 09:49:52

End at: 2018-01-26 09:50:22

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 114.207 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 114.121 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 114.382 ms

Loss rate: 1.38%

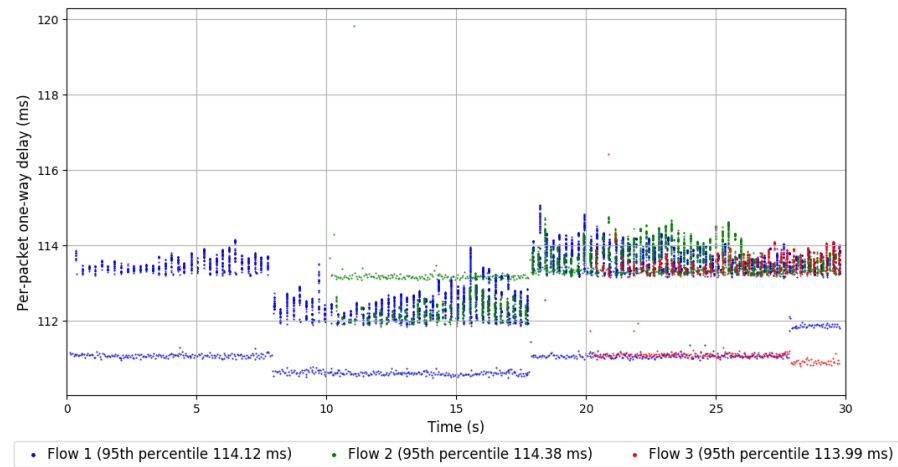
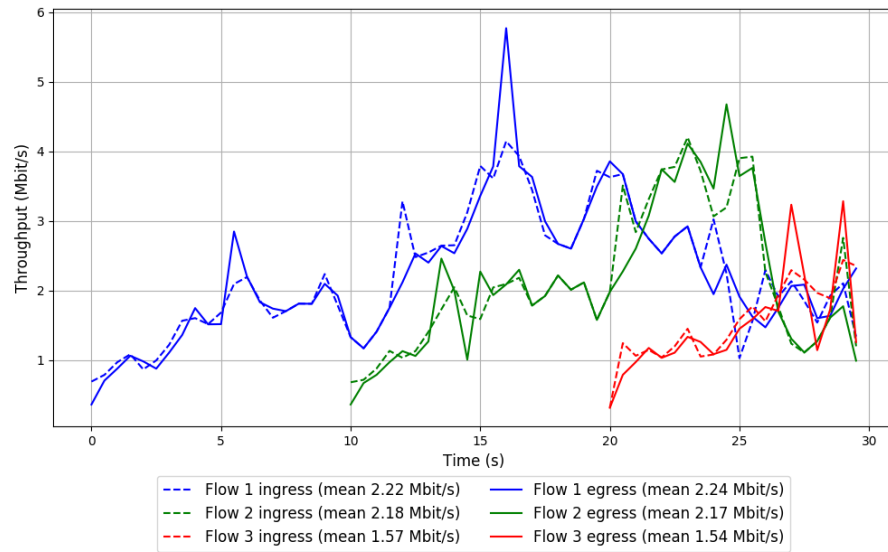
-- Flow 3:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 113.987 ms

Loss rate: 4.01%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 10:05:45

End at: 2018-01-26 10:06:15

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 114.178 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 113.897 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 114.623 ms

Loss rate: 1.56%

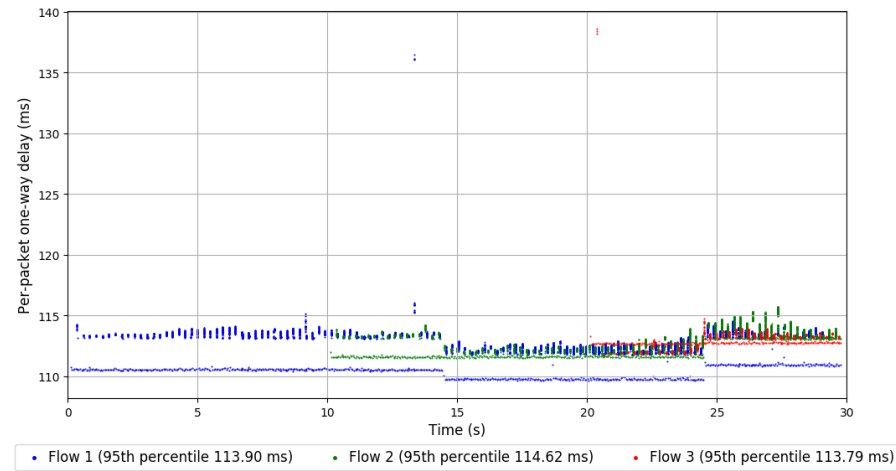
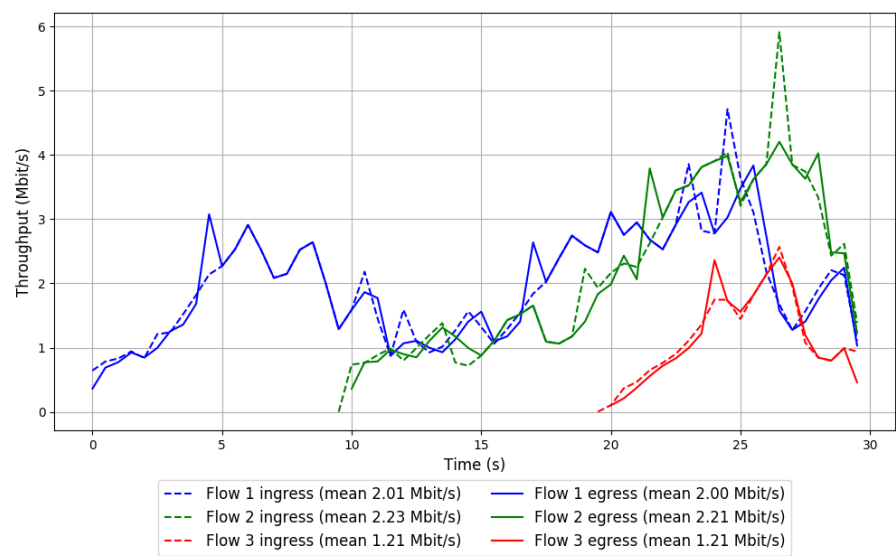
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 113.786 ms

Loss rate: 2.03%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 10:21:45

End at: 2018-01-26 10:22:15

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 113.526 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 113.372 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 113.687 ms

Loss rate: 1.36%

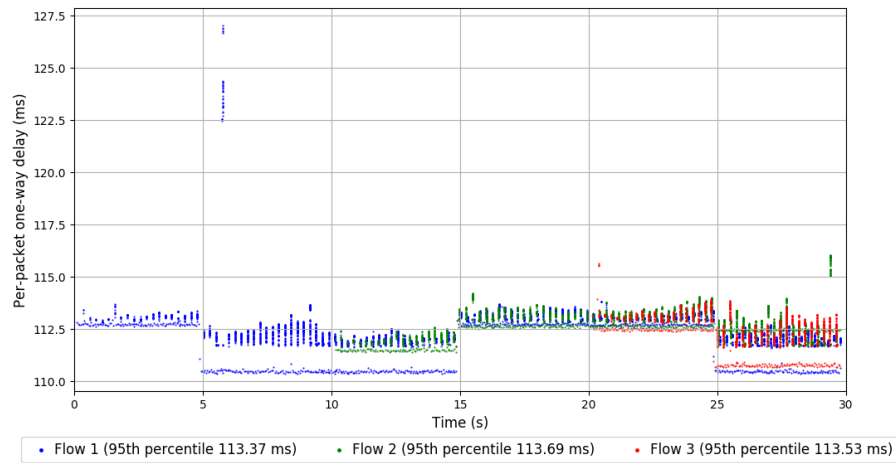
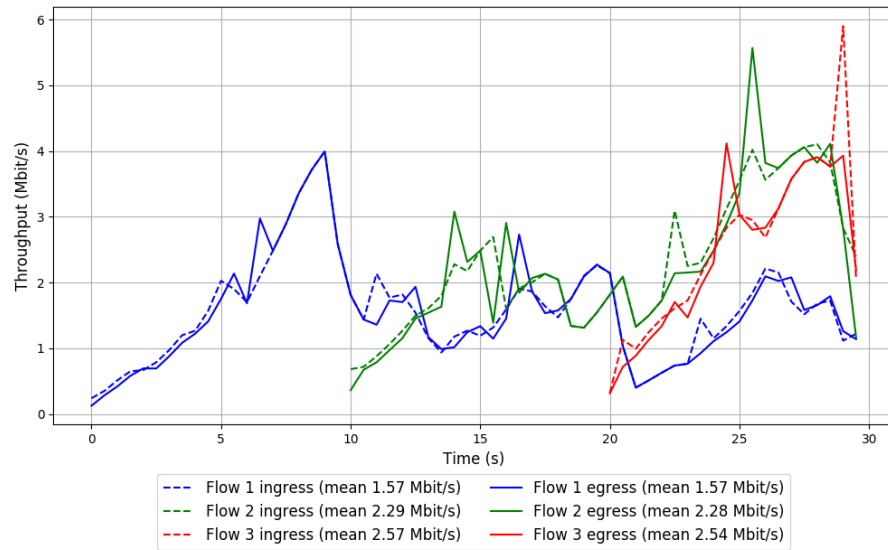
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 113.533 ms

Loss rate: 3.60%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 10:37:41

End at: 2018-01-26 10:38:11

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 113.773 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 113.931 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 113.378 ms

Loss rate: 0.47%

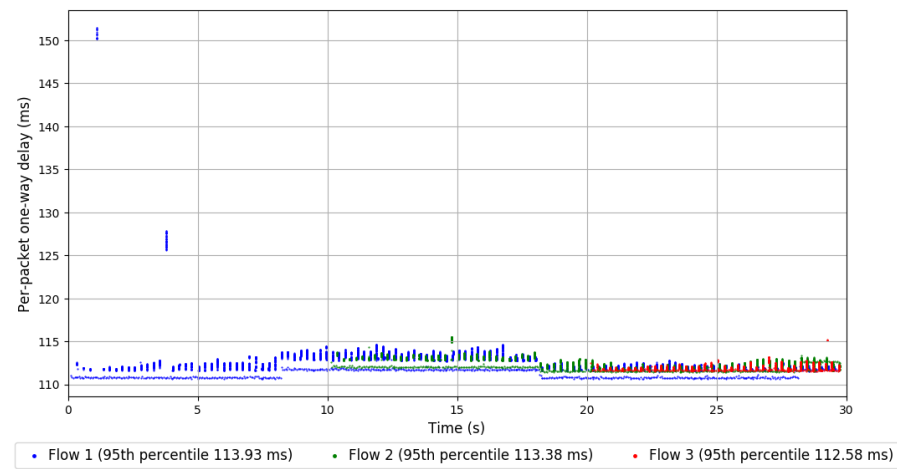
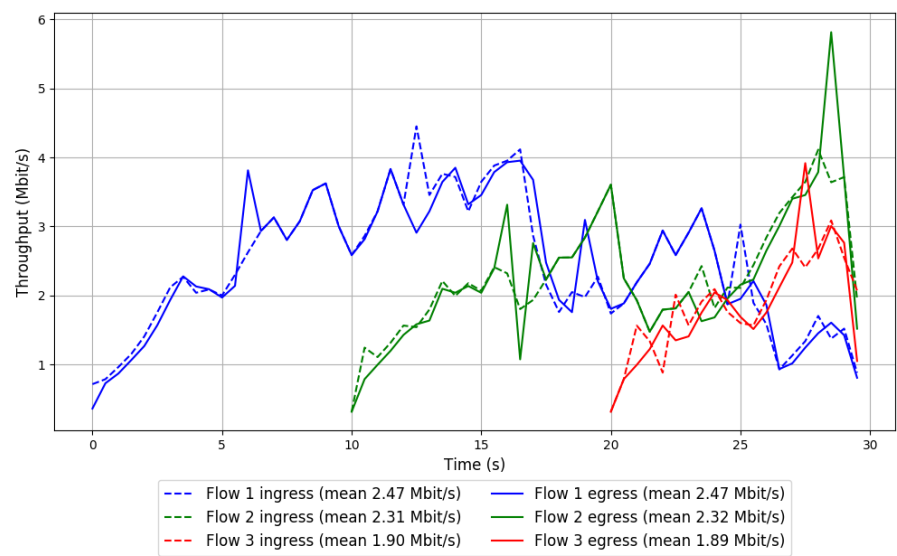
-- Flow 3:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 112.581 ms

Loss rate: 2.75%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 10:53:22

End at: 2018-01-26 10:53:52

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 113.469 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 113.485 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 113.581 ms

Loss rate: 1.35%

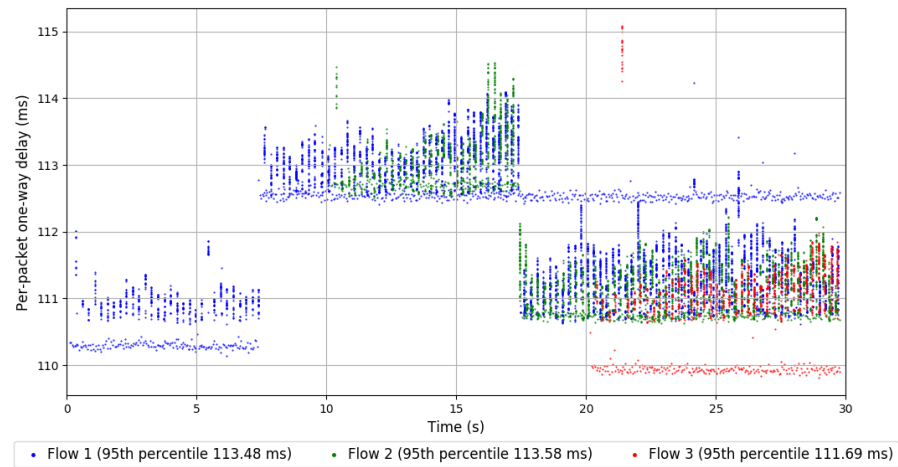
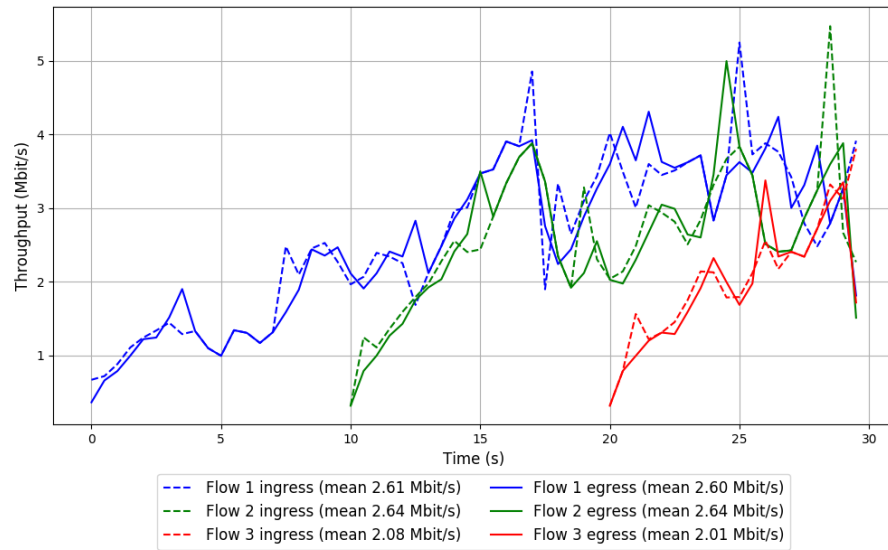
-- Flow 3:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 111.685 ms

Loss rate: 5.13%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 11:08:49

End at: 2018-01-26 11:09:19

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 111.675 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 111.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 111.629 ms

Loss rate: 1.45%

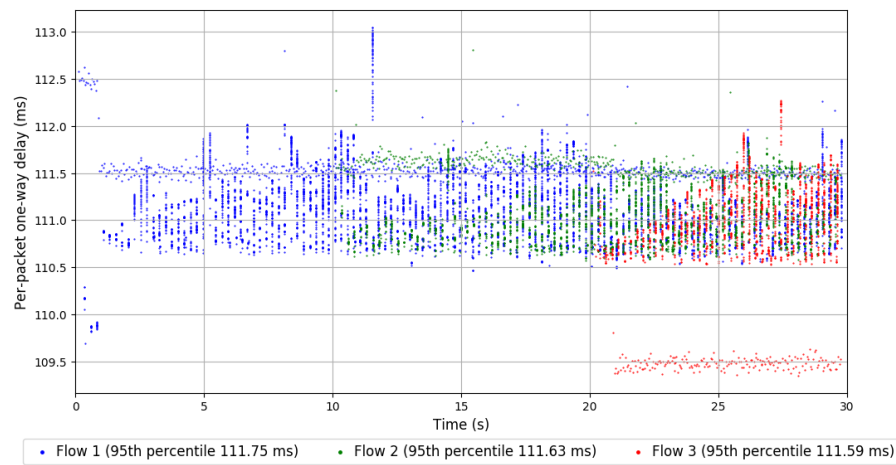
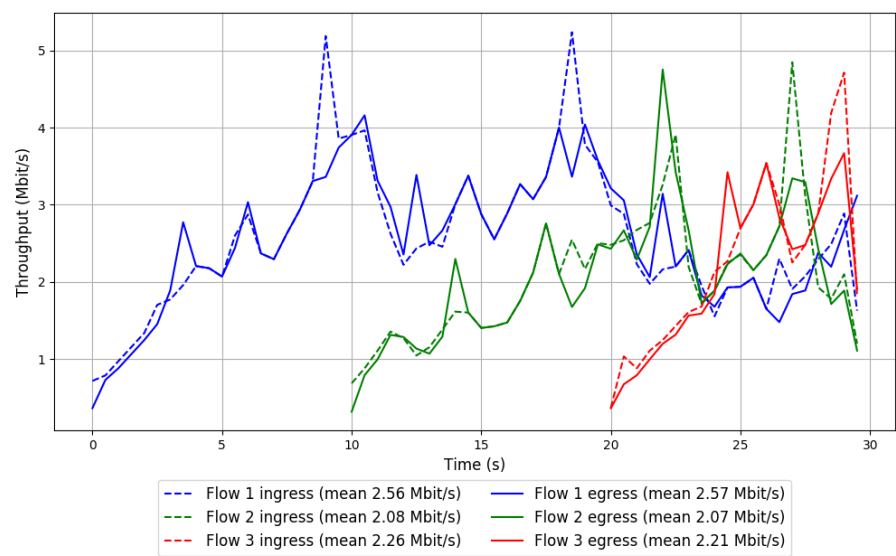
-- Flow 3:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 111.589 ms

Loss rate: 4.07%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 11:24:46

End at: 2018-01-26 11:25:16

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 112.426 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 112.392 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 112.654 ms

Loss rate: 1.05%

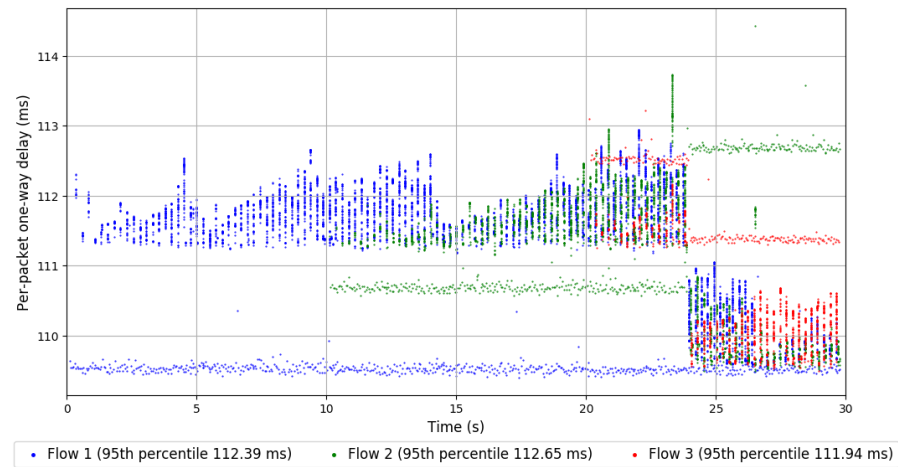
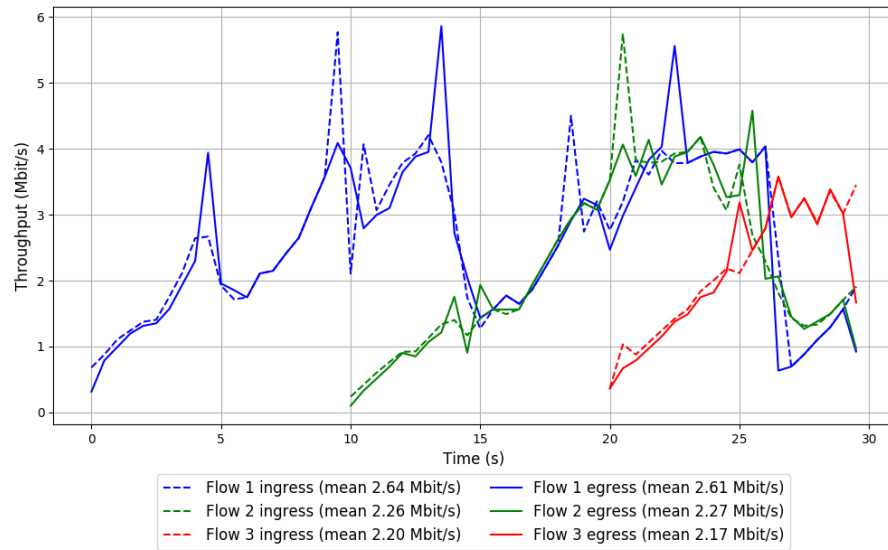
-- Flow 3:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 111.939 ms

Loss rate: 4.11%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 11:40:27

End at: 2018-01-26 11:40:57

Below is generated by plot.py at 2018-01-26 14:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 112.640 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 112.604 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 111.971 ms

Loss rate: 4.66%

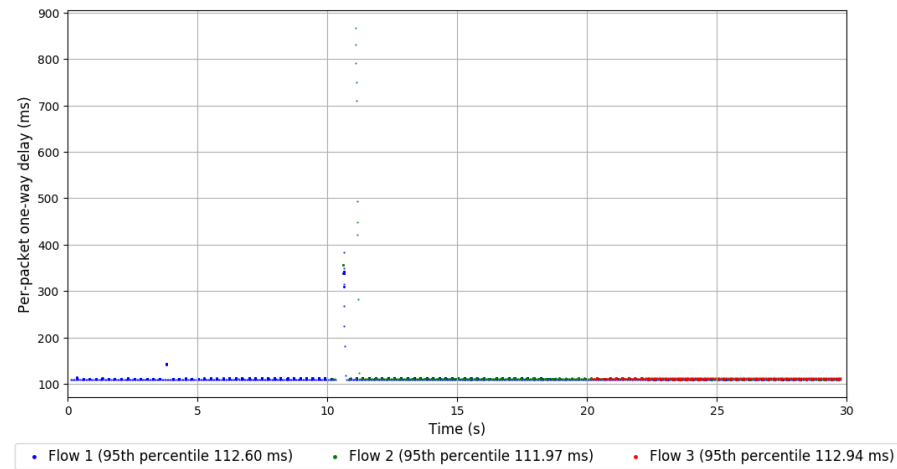
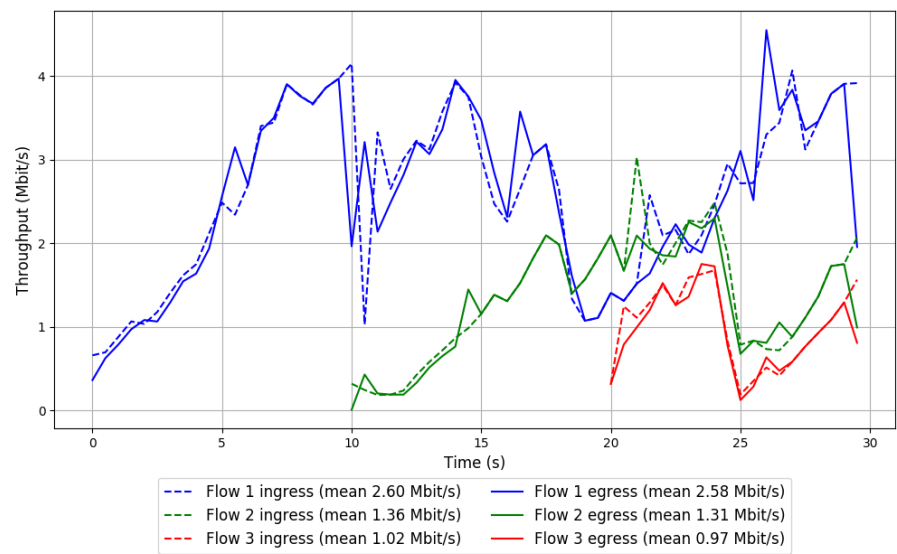
-- Flow 3:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 112.942 ms

Loss rate: 7.31%

Run 10: Report of Sprout — Data Link

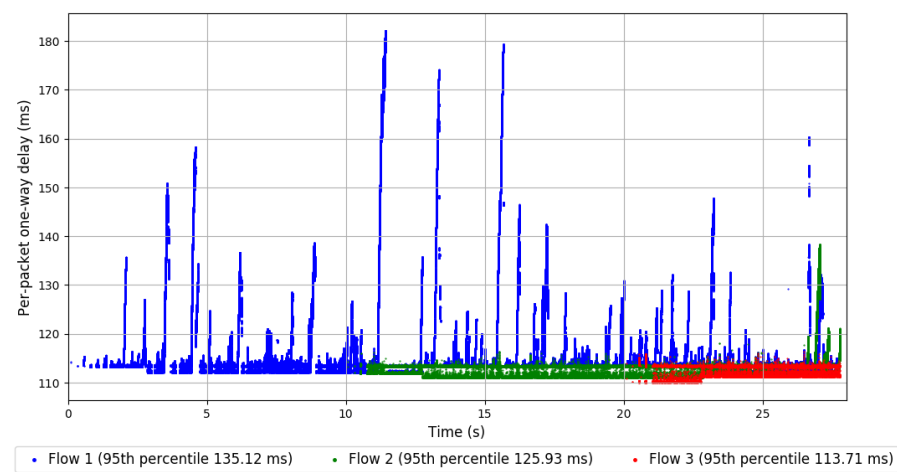
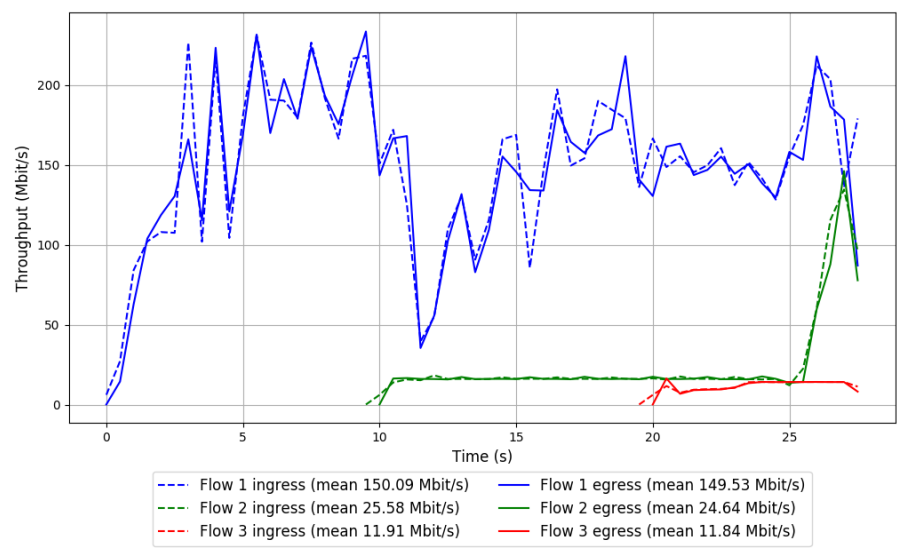


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 09:16:05
End at: 2018-01-26 09:16:35

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.30 Mbit/s
95th percentile per-packet one-way delay: 133.932 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 149.53 Mbit/s
95th percentile per-packet one-way delay: 135.120 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 125.932 ms
Loss rate: 4.87%
-- Flow 3:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 113.710 ms
Loss rate: 3.38%
```


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

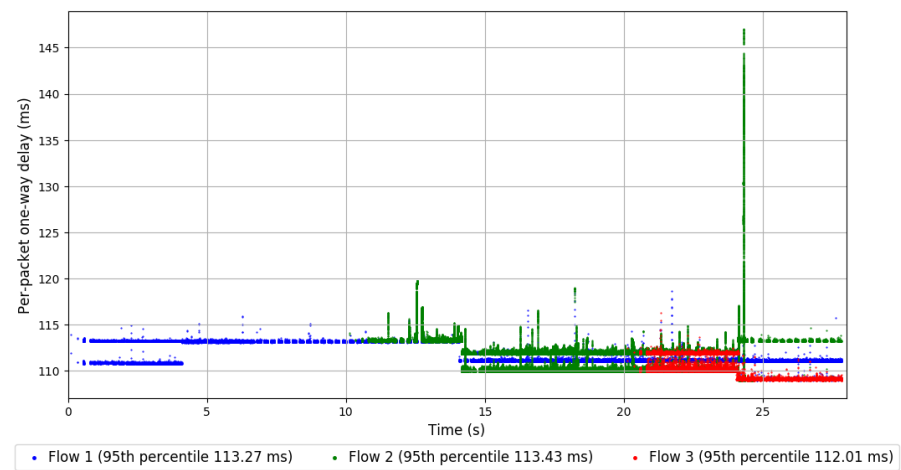
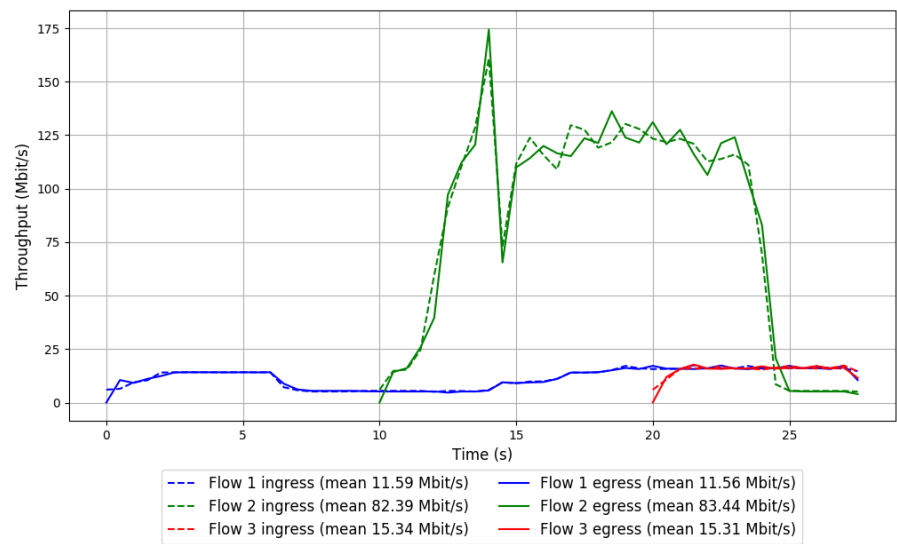


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 09:31:54
End at: 2018-01-26 09:32:24

# Below is generated by plot.py at 2018-01-26 14:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.06 Mbit/s
95th percentile per-packet one-way delay: 113.388 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 113.268 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 83.44 Mbit/s
95th percentile per-packet one-way delay: 113.434 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 112.007 ms
Loss rate: 2.96%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 09:47:46

End at: 2018-01-26 09:48:16

Below is generated by plot.py at 2018-01-26 14:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.73 Mbit/s

95th percentile per-packet one-way delay: 123.214 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 167.58 Mbit/s

95th percentile per-packet one-way delay: 123.727 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 113.916 ms

Loss rate: 1.02%

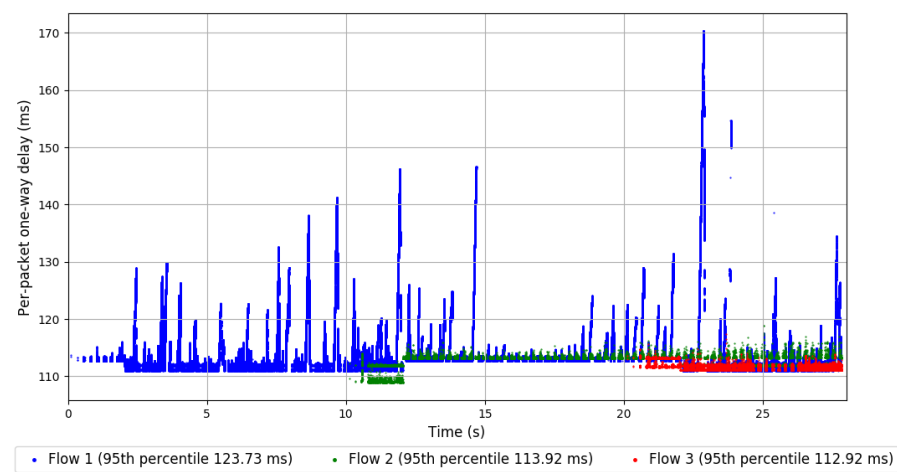
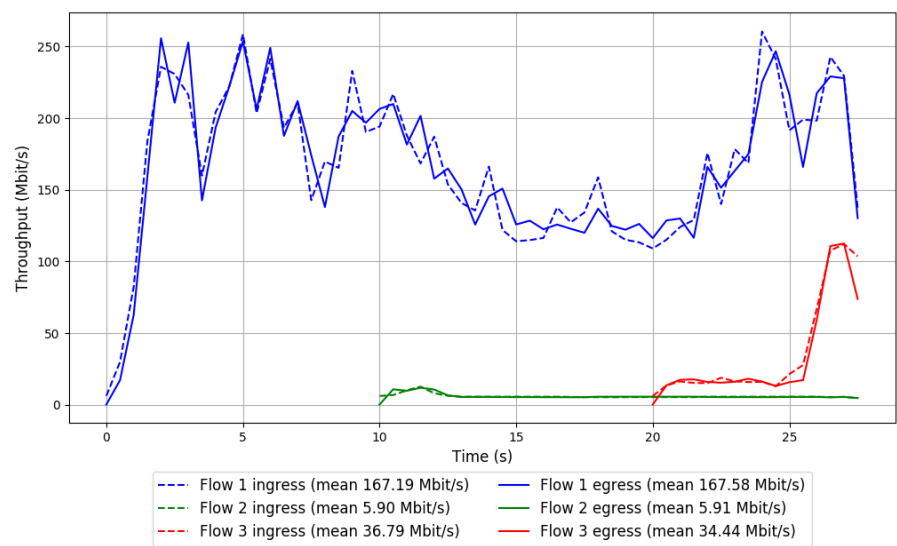
-- Flow 3:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 112.917 ms

Loss rate: 9.04%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 10:03:42

End at: 2018-01-26 10:04:12

Below is generated by plot.py at 2018-01-26 14:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.80 Mbit/s

95th percentile per-packet one-way delay: 118.238 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 113.811 ms

Loss rate: 10.27%

-- Flow 2:

Average throughput: 195.40 Mbit/s

95th percentile per-packet one-way delay: 118.895 ms

Loss rate: 0.92%

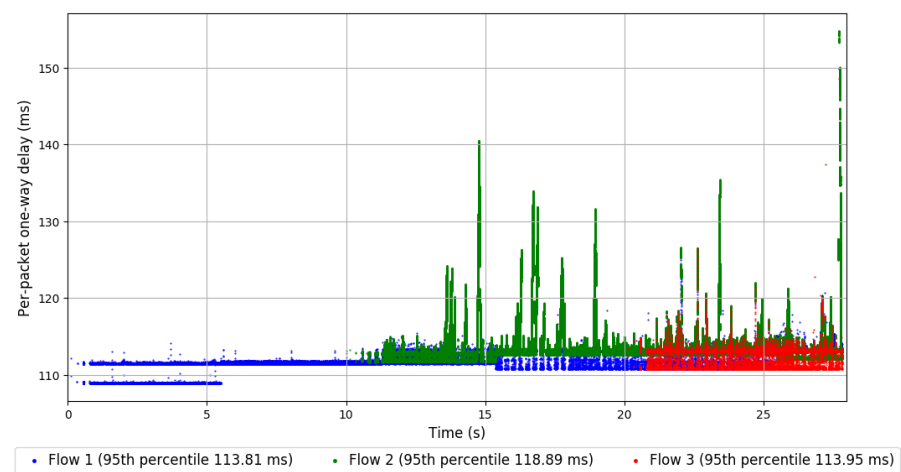
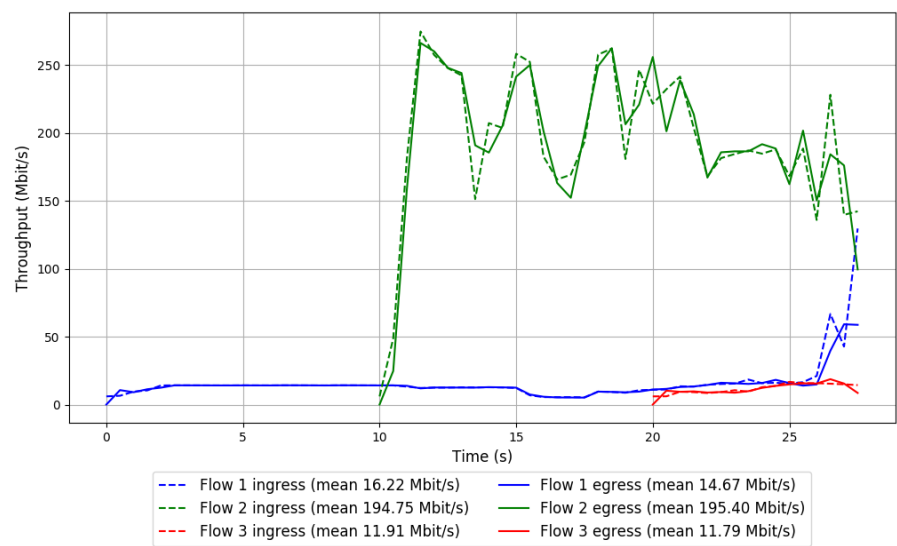
-- Flow 3:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 113.954 ms

Loss rate: 3.77%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 10:19:29

End at: 2018-01-26 10:19:59

Below is generated by plot.py at 2018-01-26 14:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 122.616 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 116.428 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 124.75 Mbit/s

95th percentile per-packet one-way delay: 134.780 ms

Loss rate: 0.42%

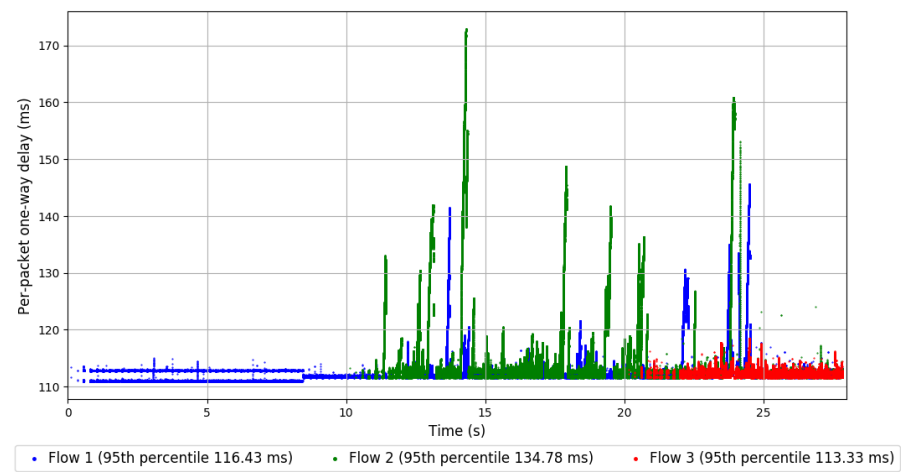
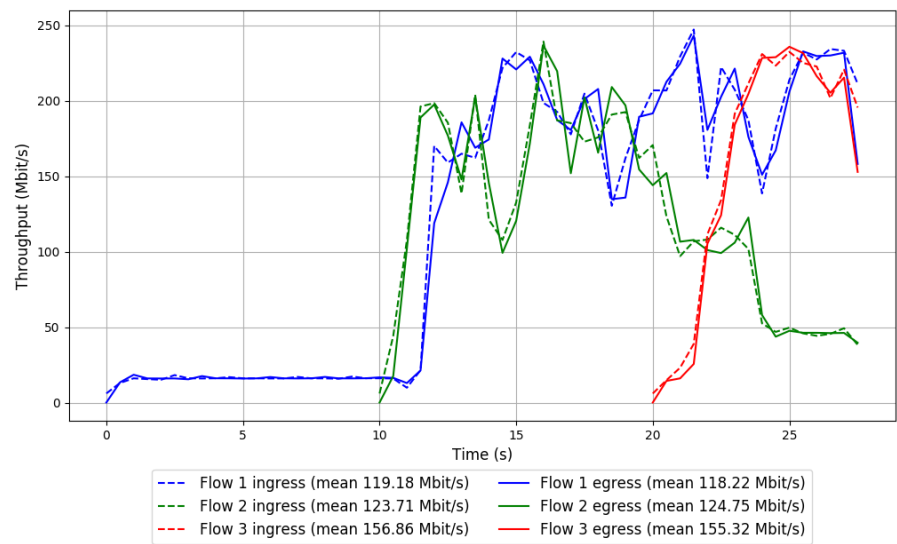
-- Flow 3:

Average throughput: 155.32 Mbit/s

95th percentile per-packet one-way delay: 113.334 ms

Loss rate: 3.83%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 10:35:25

End at: 2018-01-26 10:35:55

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.79 Mbit/s

95th percentile per-packet one-way delay: 118.286 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 158.51 Mbit/s

95th percentile per-packet one-way delay: 119.510 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 134.14 Mbit/s

95th percentile per-packet one-way delay: 115.681 ms

Loss rate: 1.48%

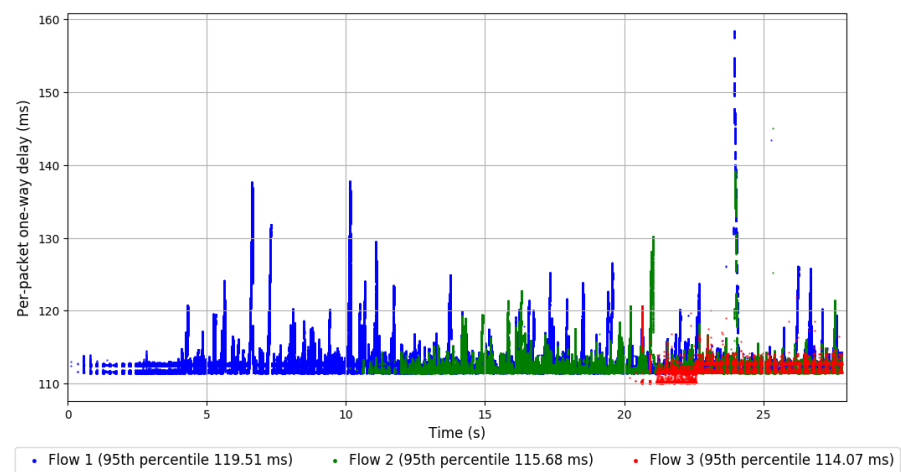
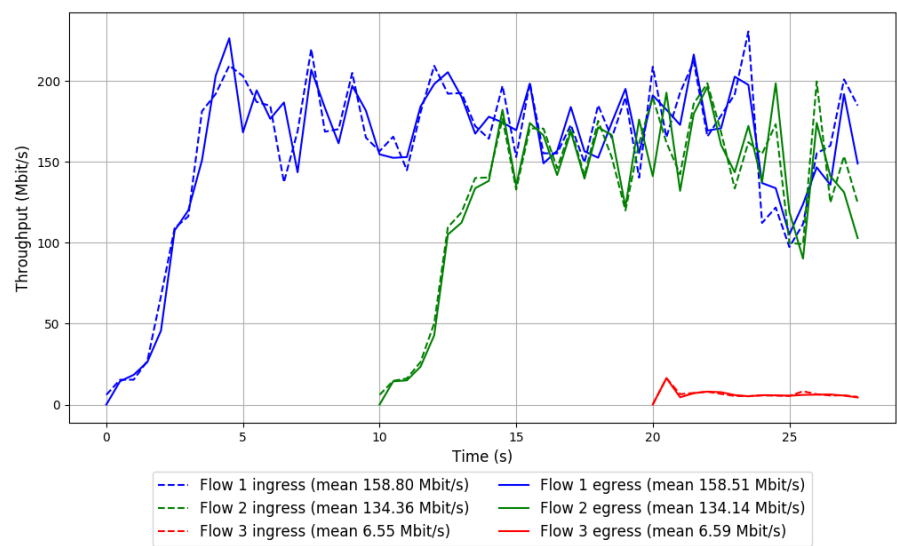
-- Flow 3:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 114.066 ms

Loss rate: 2.34%

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

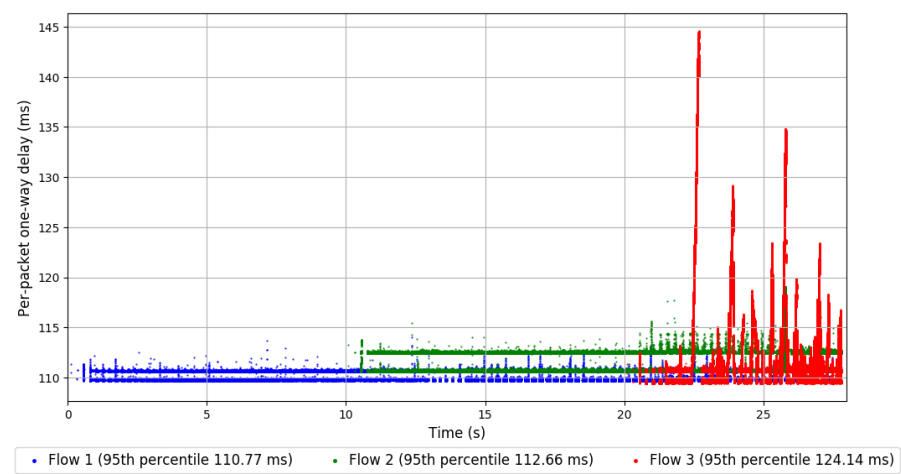
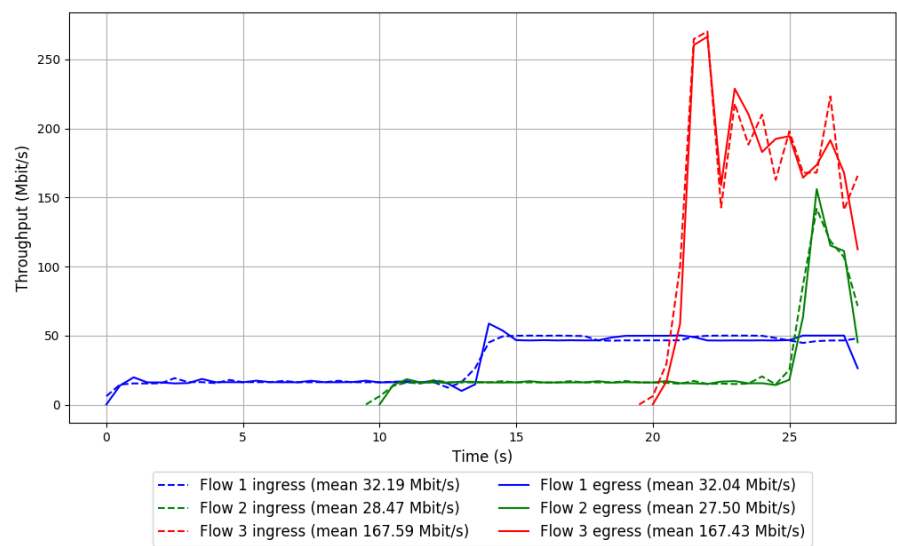


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 10:51:27
End at: 2018-01-26 10:51:57

# Below is generated by plot.py at 2018-01-26 14:48:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 117.955 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 110.770 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 112.661 ms
Loss rate: 4.60%
-- Flow 3:
Average throughput: 167.43 Mbit/s
95th percentile per-packet one-way delay: 124.136 ms
Loss rate: 2.90%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 11:06:54

End at: 2018-01-26 11:07:24

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 114.544 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 112.604 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 10.64 Mbit/s

95th percentile per-packet one-way delay: 112.471 ms

Loss rate: 0.64%

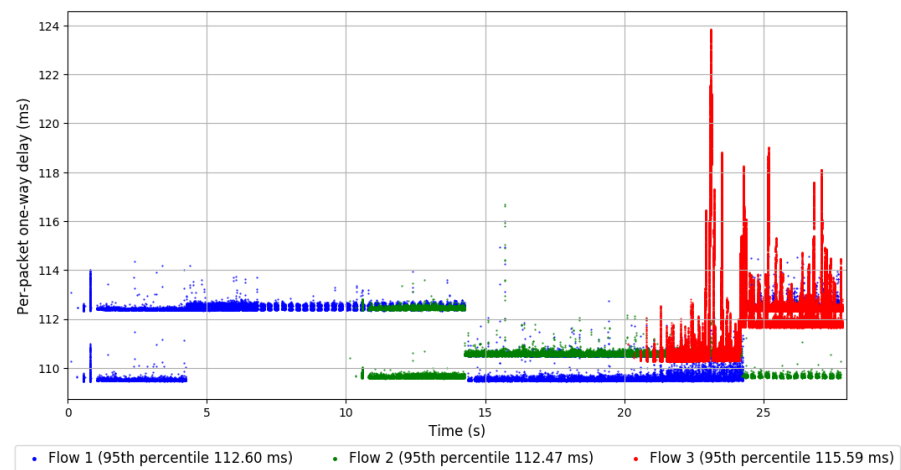
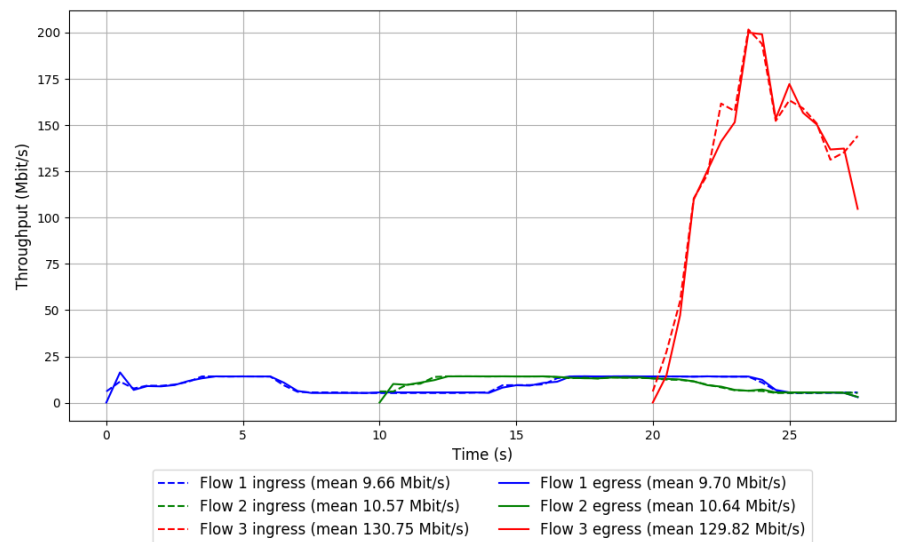
-- Flow 3:

Average throughput: 129.82 Mbit/s

95th percentile per-packet one-way delay: 115.589 ms

Loss rate: 3.51%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 11:22:42

End at: 2018-01-26 11:23:12

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.21 Mbit/s

95th percentile per-packet one-way delay: 115.022 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 27.55 Mbit/s

95th percentile per-packet one-way delay: 115.095 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 114.17 Mbit/s

95th percentile per-packet one-way delay: 113.055 ms

Loss rate: 1.08%

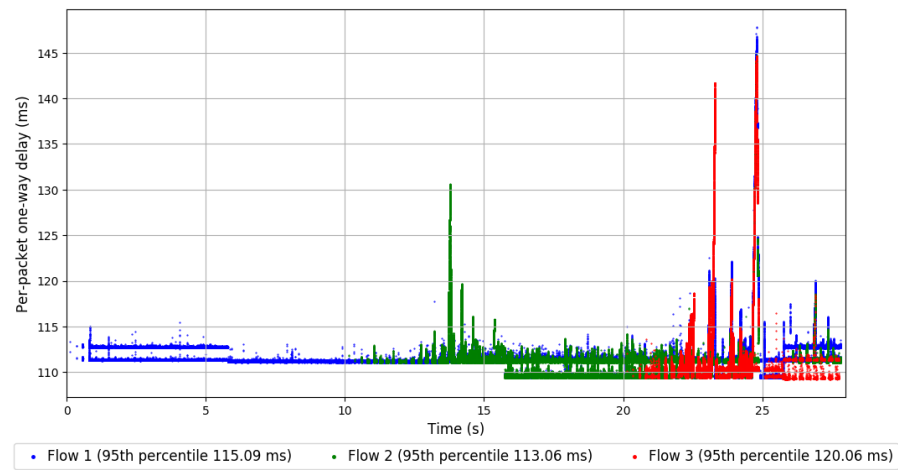
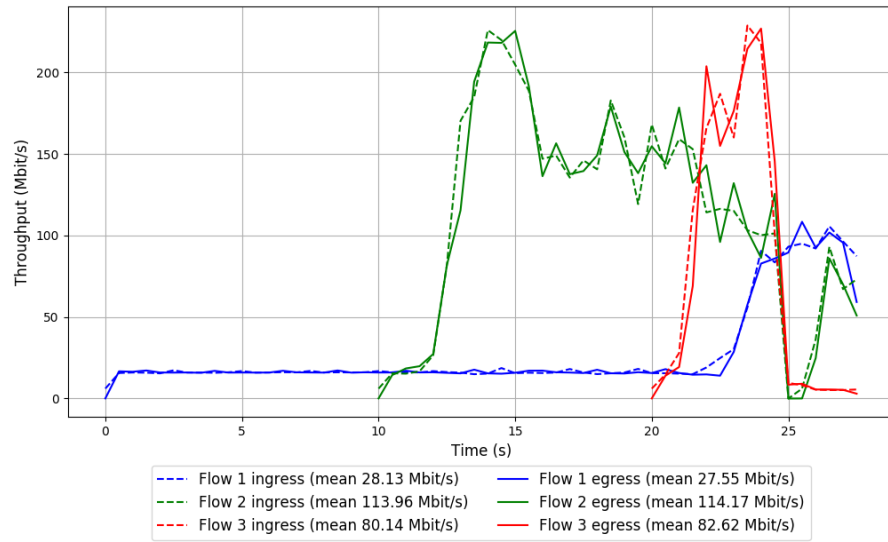
-- Flow 3:

Average throughput: 82.62 Mbit/s

95th percentile per-packet one-way delay: 120.062 ms

Loss rate: 0.22%

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

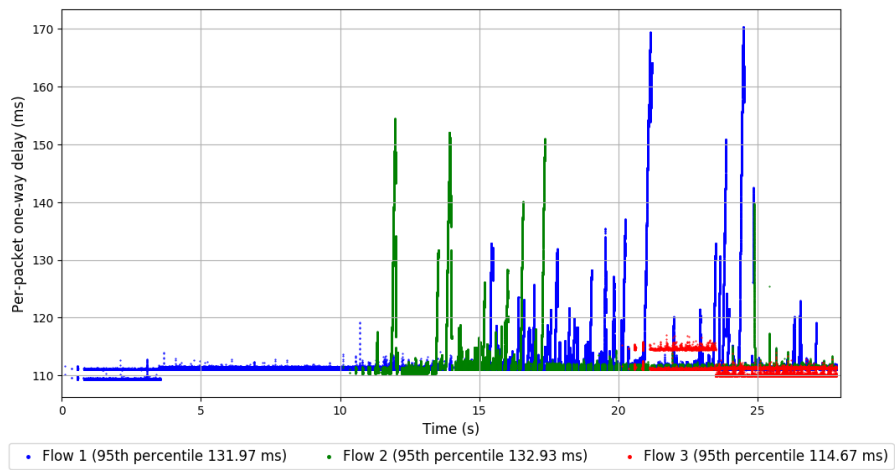
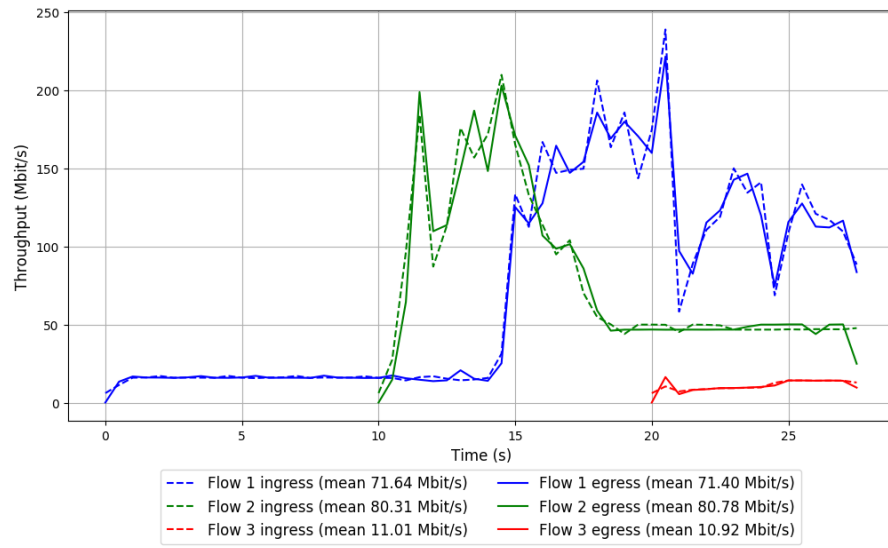


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 11:38:24
End at: 2018-01-26 11:38:54

# Below is generated by plot.py at 2018-01-26 14:48:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.77 Mbit/s
95th percentile per-packet one-way delay: 131.792 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 71.40 Mbit/s
95th percentile per-packet one-way delay: 131.973 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 80.78 Mbit/s
95th percentile per-packet one-way delay: 132.931 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 114.665 ms
Loss rate: 3.66%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 09:13:18

End at: 2018-01-26 09:13:48

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 114.495 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 113.706 ms

Loss rate: 2.80%

-- Flow 2:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 115.174 ms

Loss rate: 2.77%

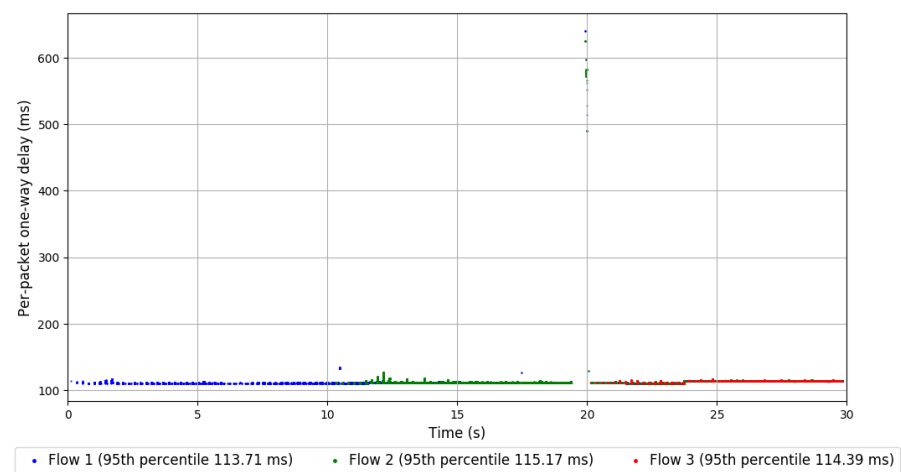
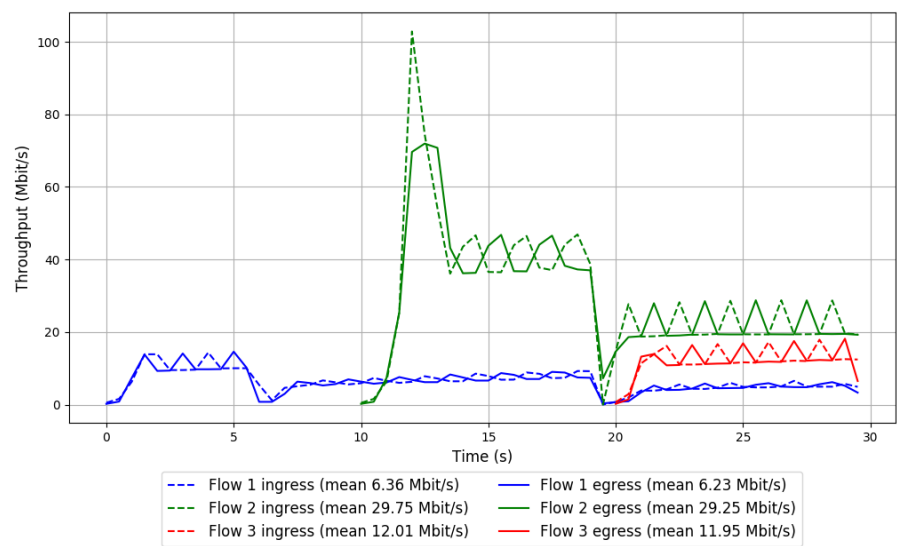
-- Flow 3:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 114.389 ms

Loss rate: 2.63%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 09:29:06

End at: 2018-01-26 09:29:36

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 114.476 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 13.62 Mbit/s

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

Loss rate: 1.19%

-- Flow 2:

Average throughput: 11.50 Mbit/s

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

Loss rate: 2.28%

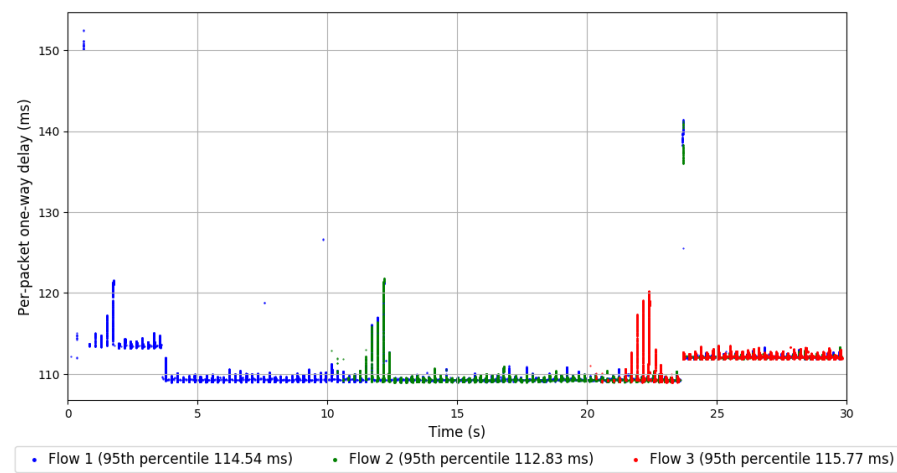
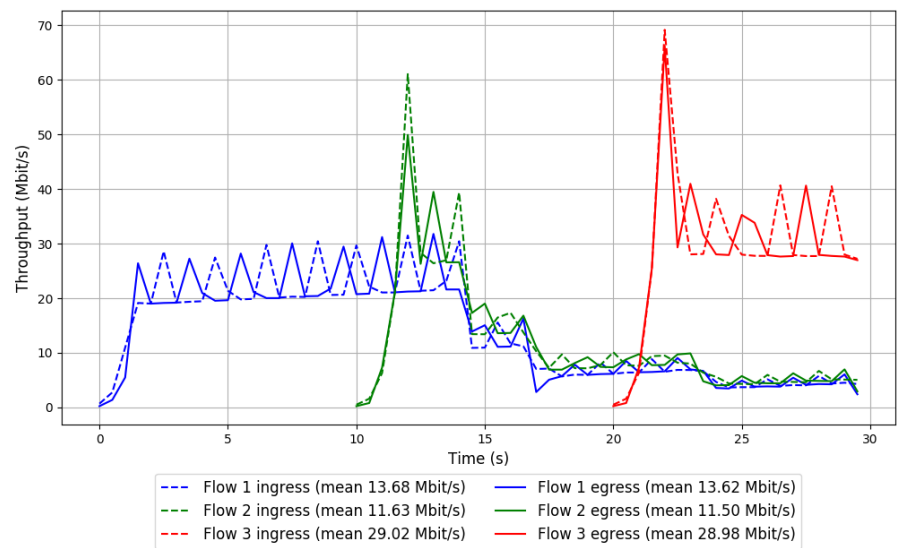
-- Flow 3:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 115.767 ms

Loss rate: 2.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 09:44:47

End at: 2018-01-26 09:45:17

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 119.353 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 27.45 Mbit/s

95th percentile per-packet one-way delay: 117.416 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 120.492 ms

Loss rate: 0.84%

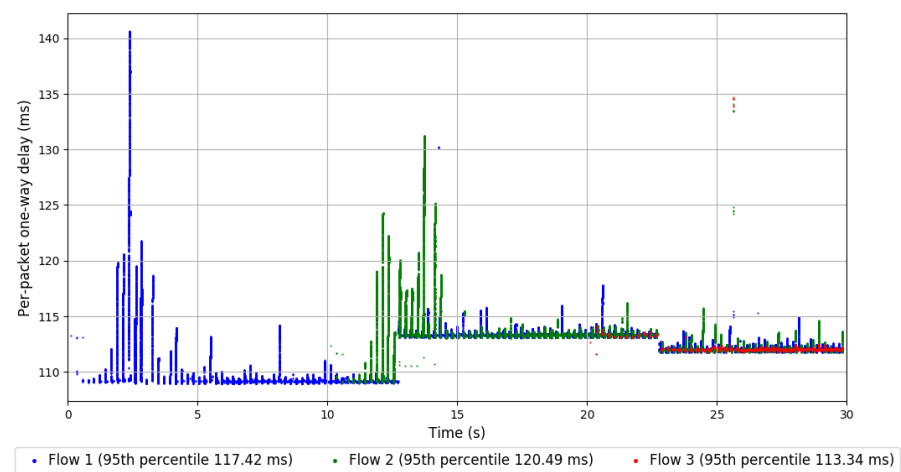
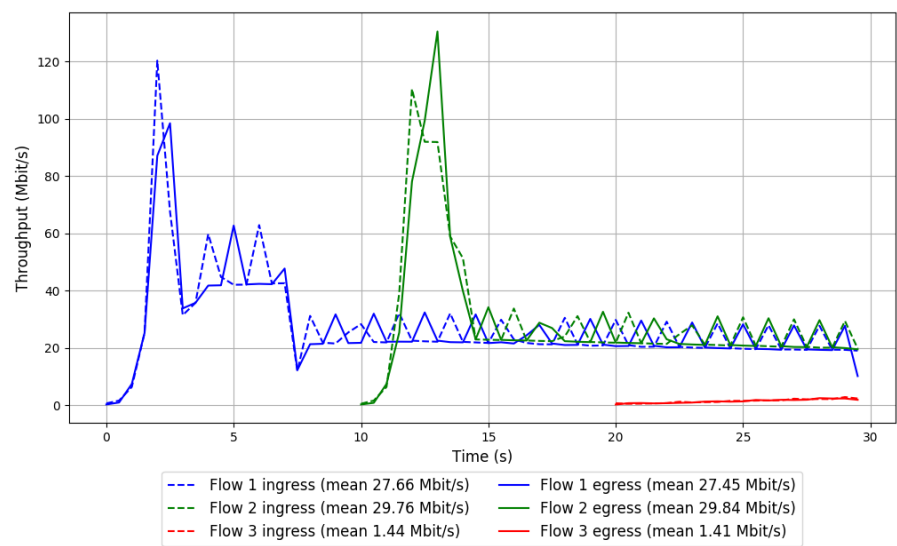
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 113.337 ms

Loss rate: 4.20%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 10:00:57

End at: 2018-01-26 10:01:27

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 120.508 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 122.757 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 114.013 ms

Loss rate: 0.86%

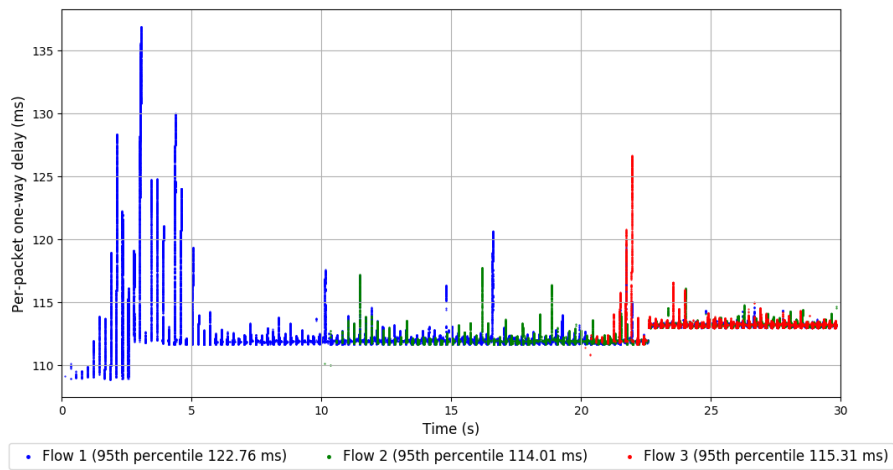
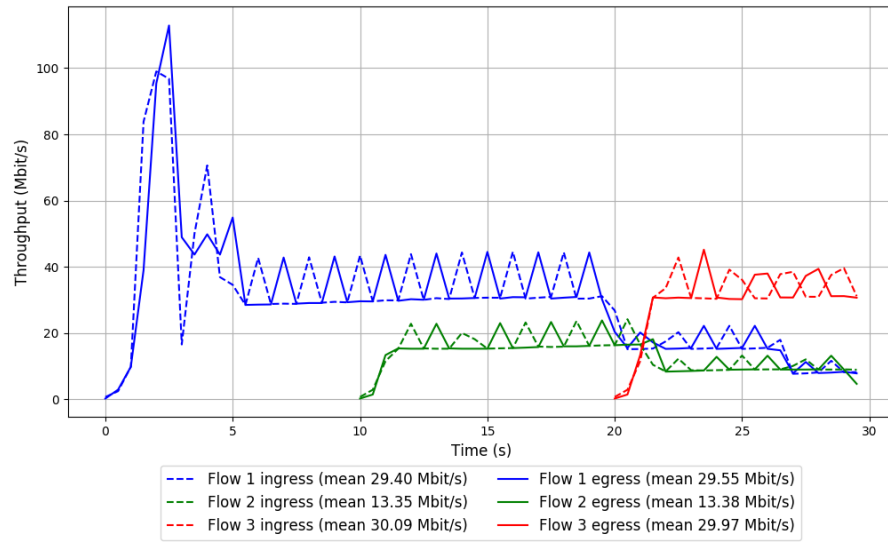
-- Flow 3:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 115.311 ms

Loss rate: 2.62%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 10:16:42

End at: 2018-01-26 10:17:12

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 113.132 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 112.537 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 24.29 Mbit/s

95th percentile per-packet one-way delay: 114.719 ms

Loss rate: 1.16%

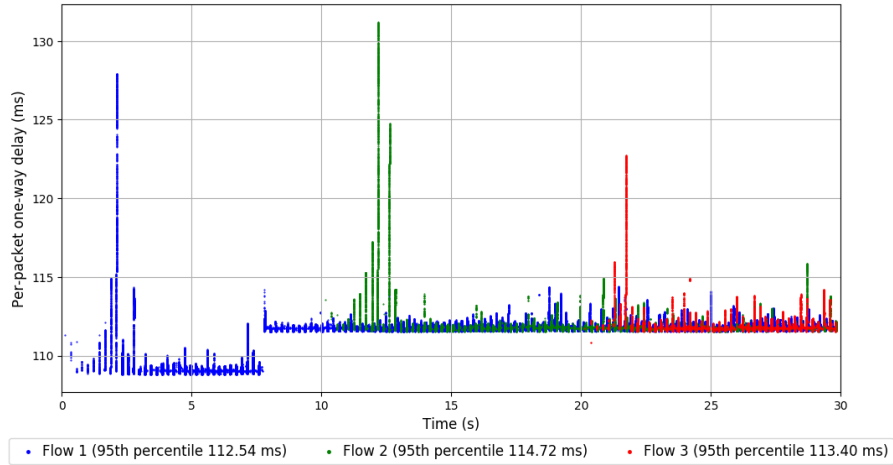
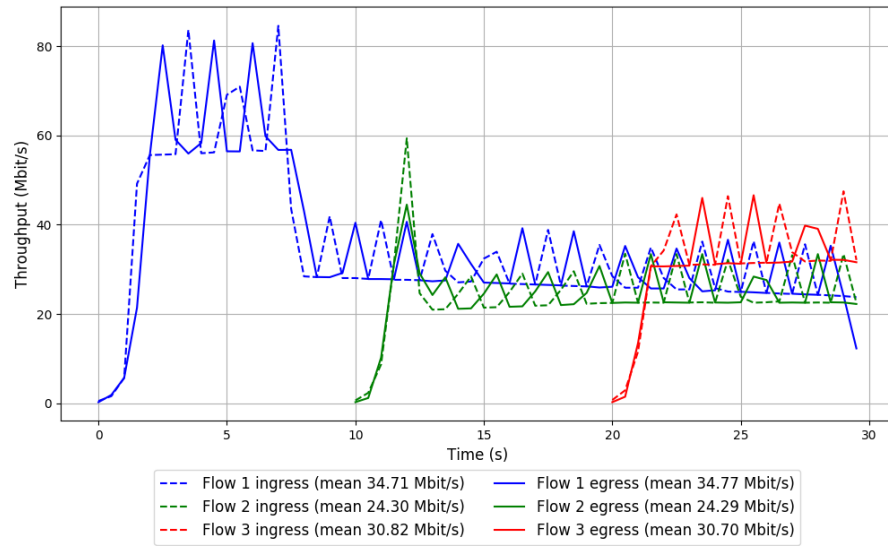
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 113.403 ms

Loss rate: 2.63%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 10:32:37

End at: 2018-01-26 10:33:07

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 120.898 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 120.282 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 121.489 ms

Loss rate: 1.11%

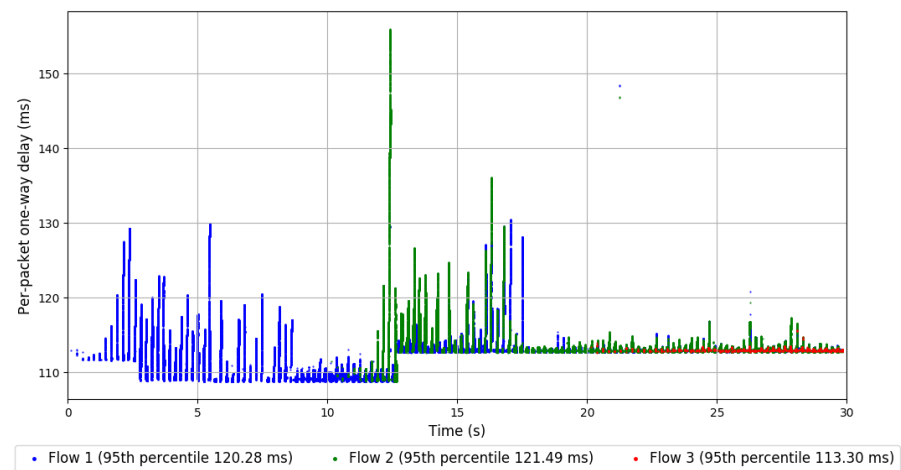
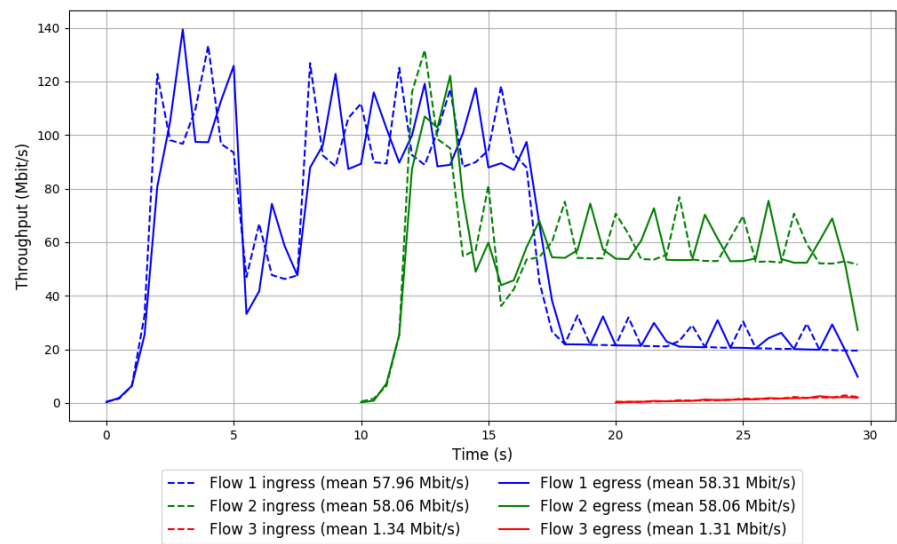
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 113.295 ms

Loss rate: 4.52%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 10:48:37

End at: 2018-01-26 10:49:07

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.30 Mbit/s

95th percentile per-packet one-way delay: 120.002 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 75.67 Mbit/s

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

Loss rate: 0.27%

-- Flow 2:

Average throughput: 38.51 Mbit/s

95th percentile per-packet one-way delay: 119.381 ms

Loss rate: 1.23%

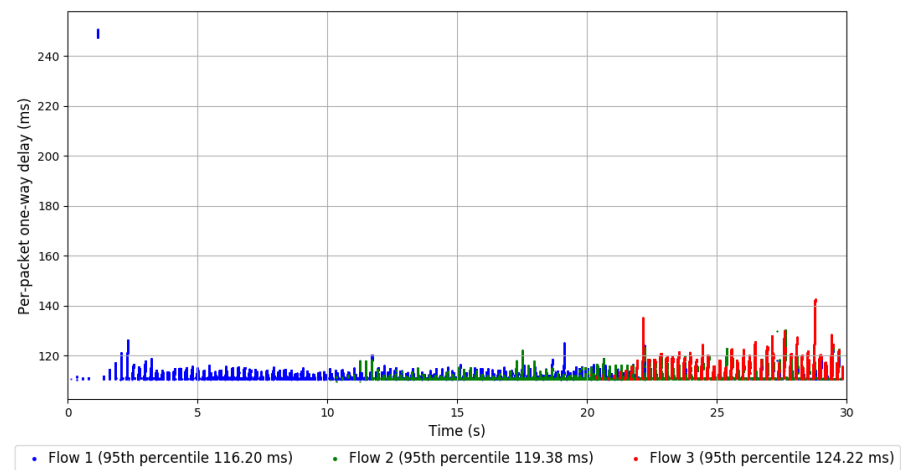
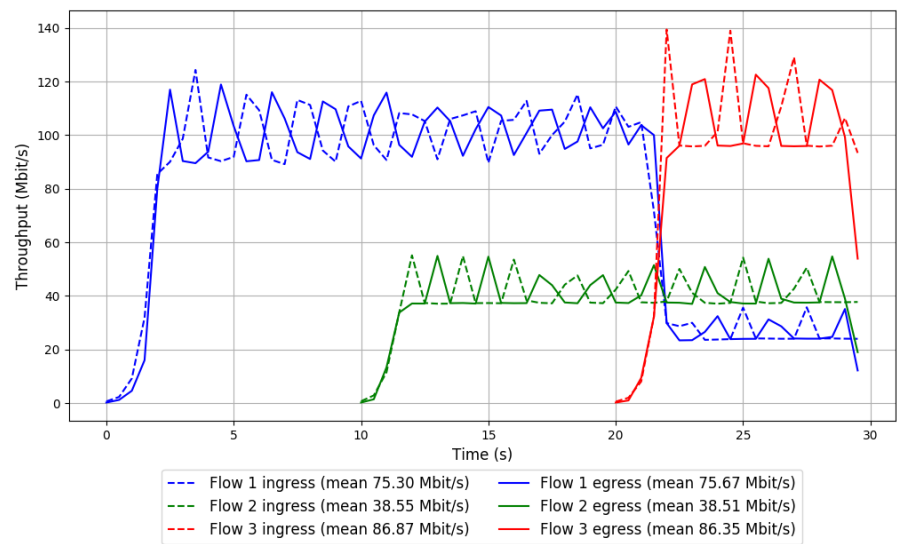
-- Flow 3:

Average throughput: 86.35 Mbit/s

95th percentile per-packet one-way delay: 124.217 ms

Loss rate: 2.84%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 11:04:11

End at: 2018-01-26 11:04:41

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 123.991 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 118.438 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 128.384 ms

Loss rate: 0.39%

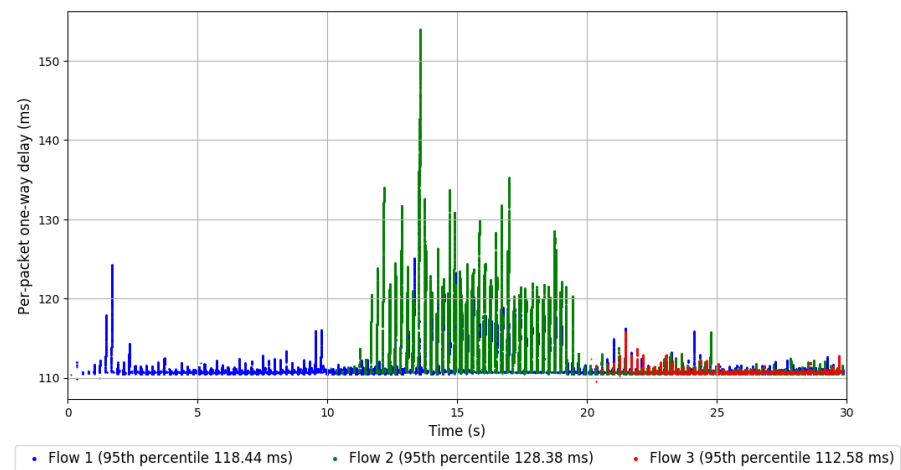
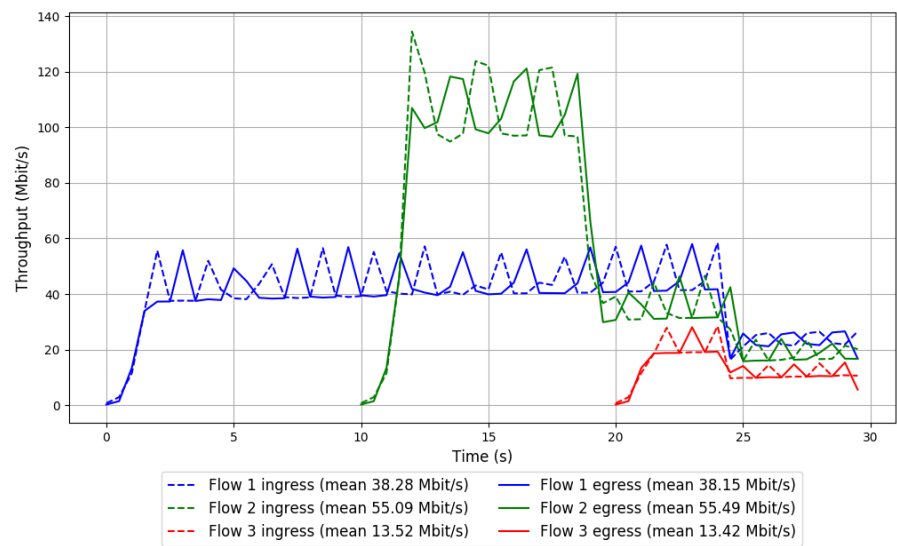
-- Flow 3:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 112.585 ms

Loss rate: 2.98%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 11:19:57

End at: 2018-01-26 11:20:27

Below is generated by plot.py at 2018-01-26 14:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 124.962 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 19.98 Mbit/s

95th percentile per-packet one-way delay: 113.272 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 142.980 ms

Loss rate: 3.11%

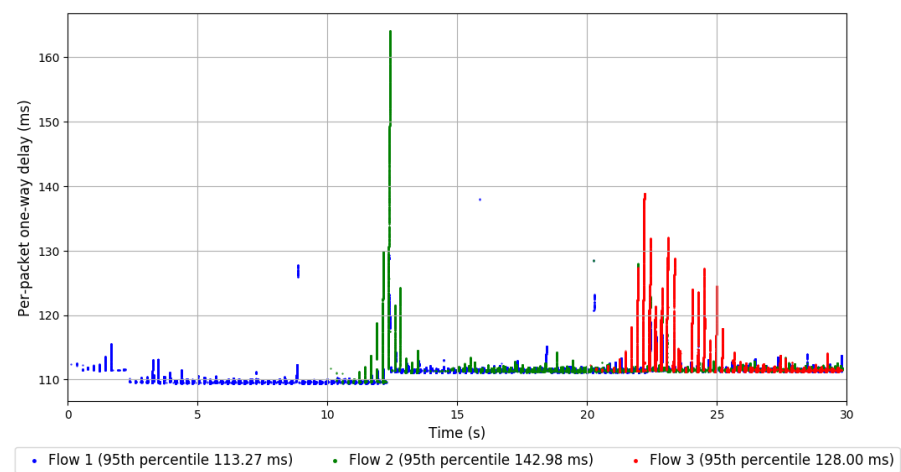
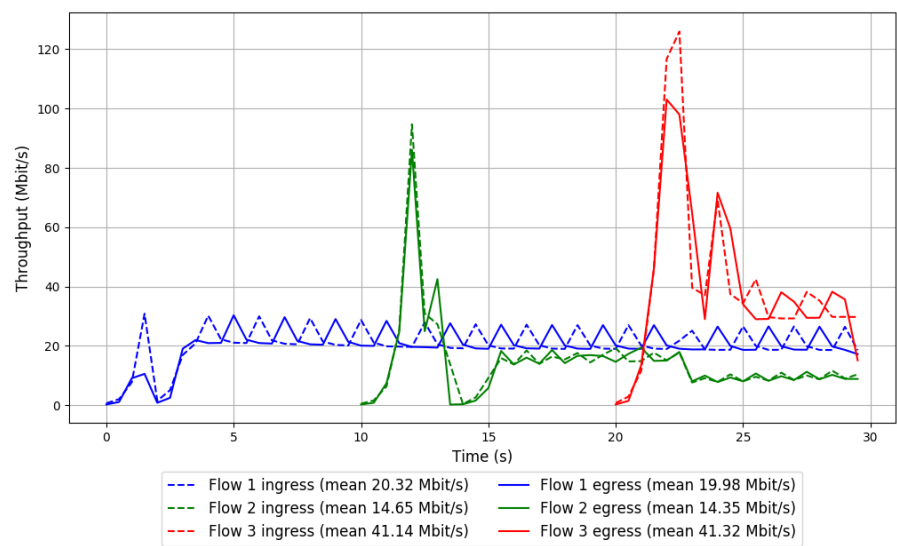
-- Flow 3:

Average throughput: 41.32 Mbit/s

95th percentile per-packet one-way delay: 128.004 ms

Loss rate: 1.83%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 11:35:33

End at: 2018-01-26 11:36:03

Below is generated by plot.py at 2018-01-26 14:48:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 113.909 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 38.37 Mbit/s

95th percentile per-packet one-way delay: 113.714 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 114.143 ms

Loss rate: 1.24%

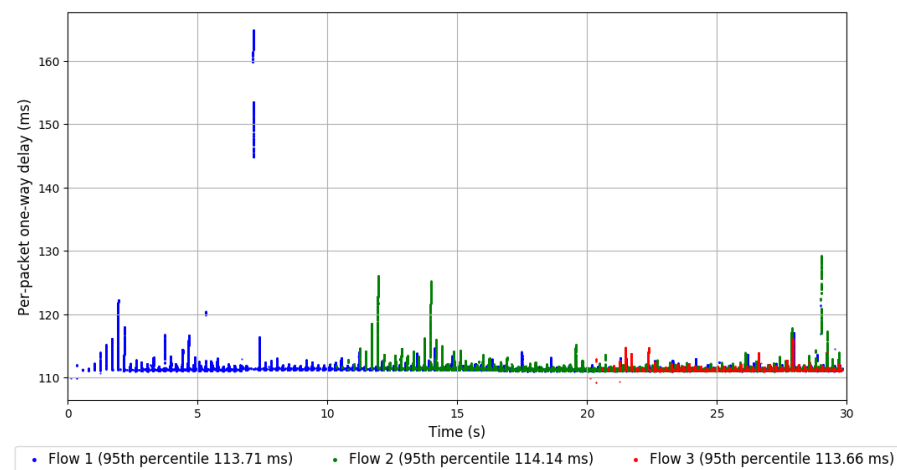
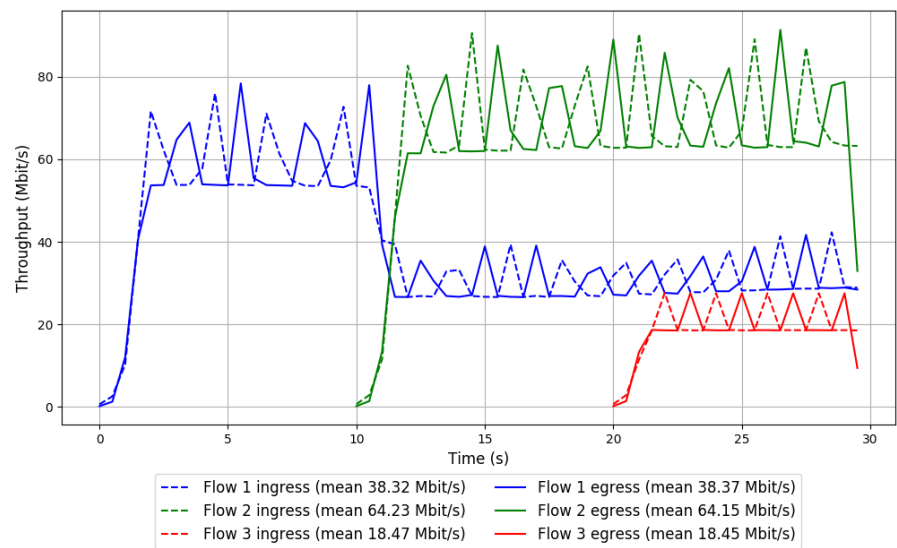
-- Flow 3:

Average throughput: 18.45 Mbit/s

95th percentile per-packet one-way delay: 113.663 ms

Loss rate: 2.53%

Run 10: Report of TCP Vegas — Data Link

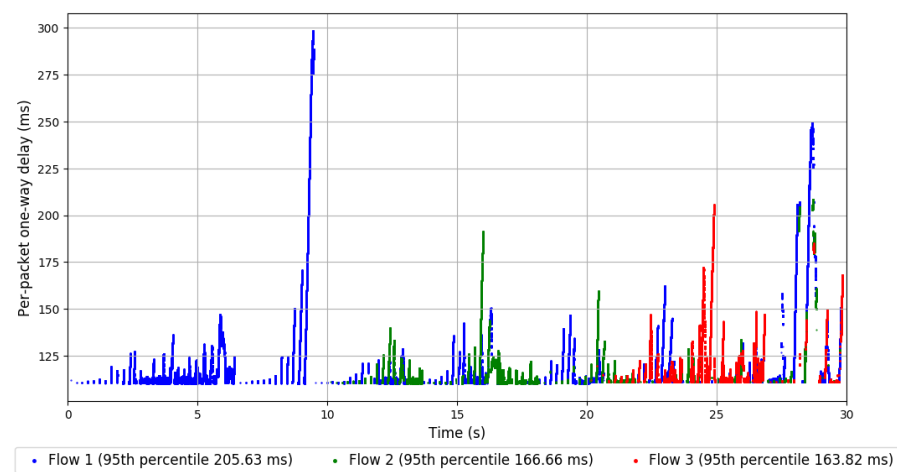
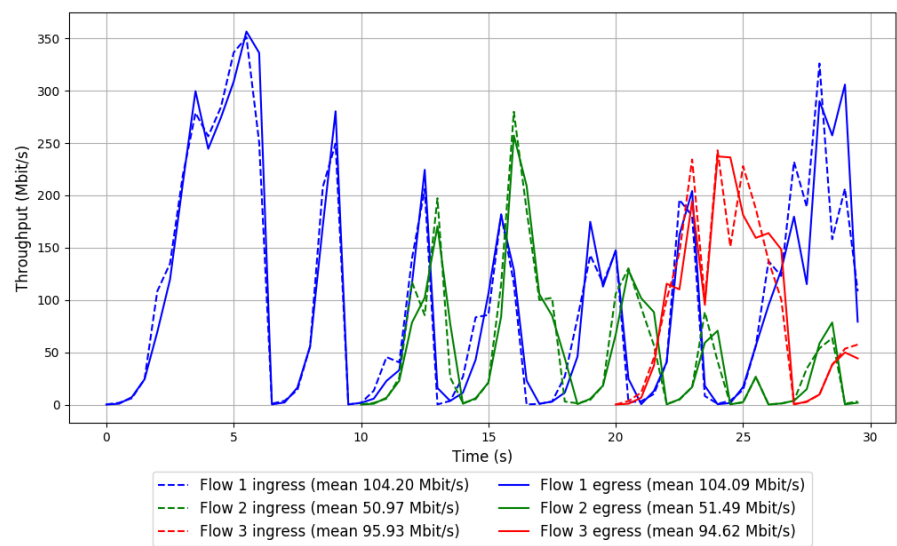


```
Run 1: Statistics of Verus

Start at: 2018-01-26 09:04:00
End at: 2018-01-26 09:04:30

# Below is generated by plot.py at 2018-01-26 14:50:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.73 Mbit/s
95th percentile per-packet one-way delay: 188.798 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 104.09 Mbit/s
95th percentile per-packet one-way delay: 205.630 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 166.663 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 94.62 Mbit/s
95th percentile per-packet one-way delay: 163.819 ms
Loss rate: 0.91%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 09:19:50

End at: 2018-01-26 09:20:20

Below is generated by plot.py at 2018-01-26 14:50:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.85 Mbit/s

95th percentile per-packet one-way delay: 211.472 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 116.85 Mbit/s

95th percentile per-packet one-way delay: 220.485 ms

Loss rate: 2.53%

-- Flow 2:

Average throughput: 43.17 Mbit/s

95th percentile per-packet one-way delay: 171.791 ms

Loss rate: 0.34%

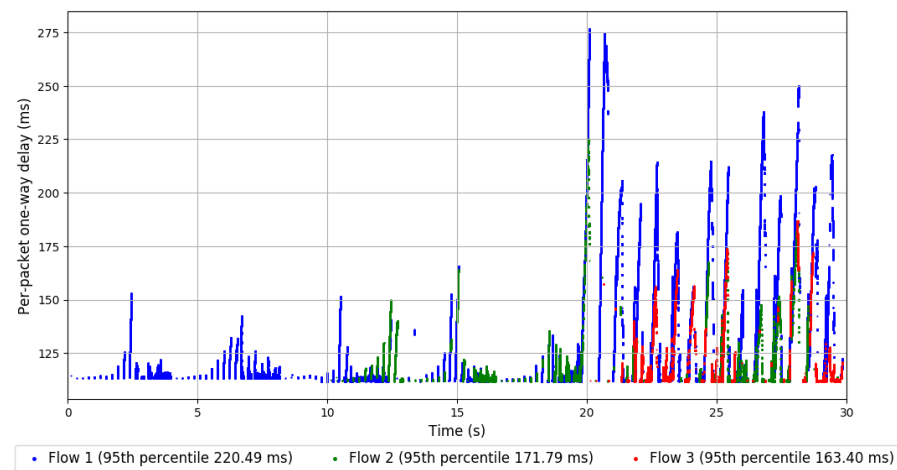
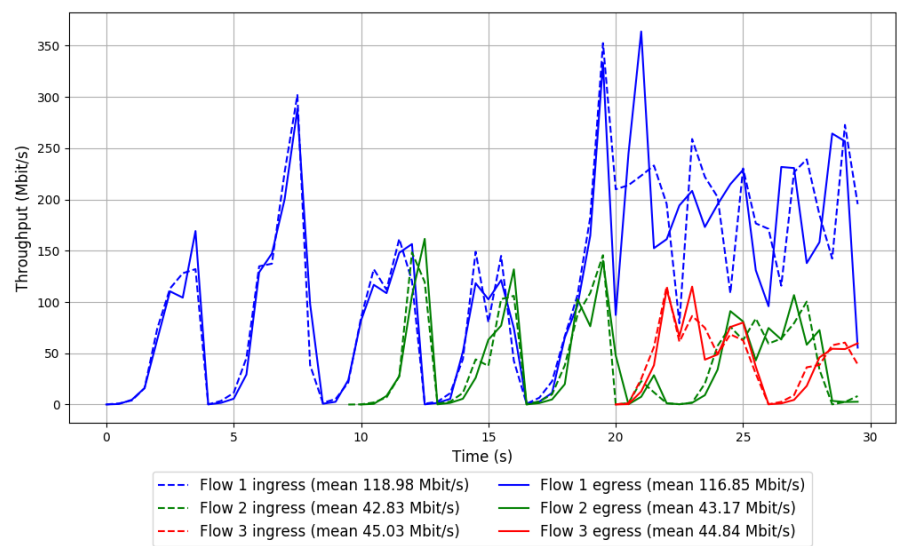
-- Flow 3:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 163.397 ms

Loss rate: 0.69%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 09:35:24

End at: 2018-01-26 09:35:54

Below is generated by plot.py at 2018-01-26 14:50:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.03 Mbit/s

95th percentile per-packet one-way delay: 238.938 ms

Loss rate: 3.45%

-- Flow 1:

Average throughput: 92.82 Mbit/s

95th percentile per-packet one-way delay: 303.390 ms

Loss rate: 4.79%

-- Flow 2:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 186.625 ms

Loss rate: 2.01%

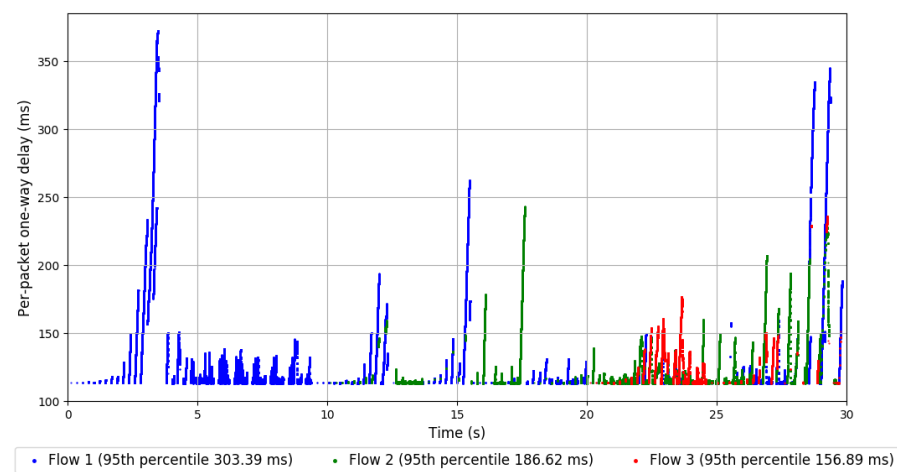
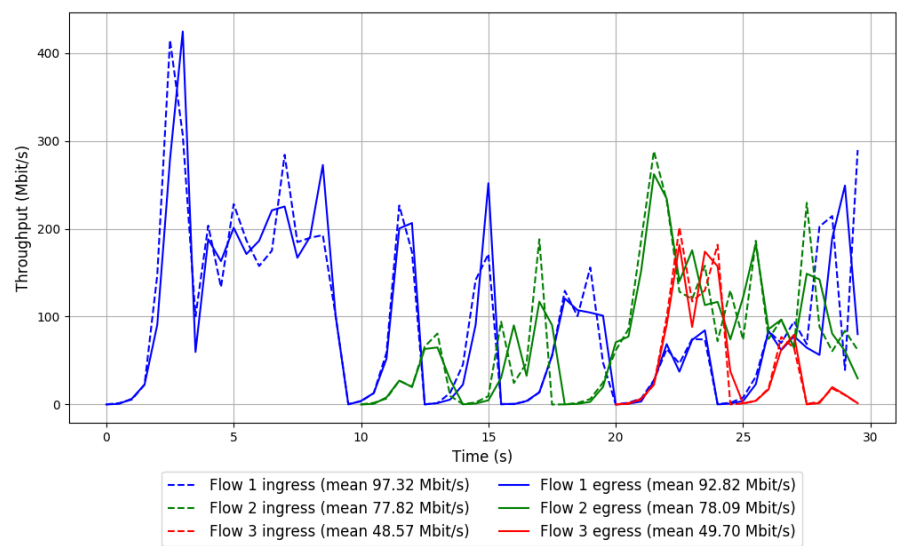
-- Flow 3:

Average throughput: 49.70 Mbit/s

95th percentile per-packet one-way delay: 156.893 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 09:51:26

End at: 2018-01-26 09:51:56

Below is generated by plot.py at 2018-01-26 14:51:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.27 Mbit/s

95th percentile per-packet one-way delay: 258.434 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 81.36 Mbit/s

95th percentile per-packet one-way delay: 253.360 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 168.77 Mbit/s

95th percentile per-packet one-way delay: 267.465 ms

Loss rate: 0.57%

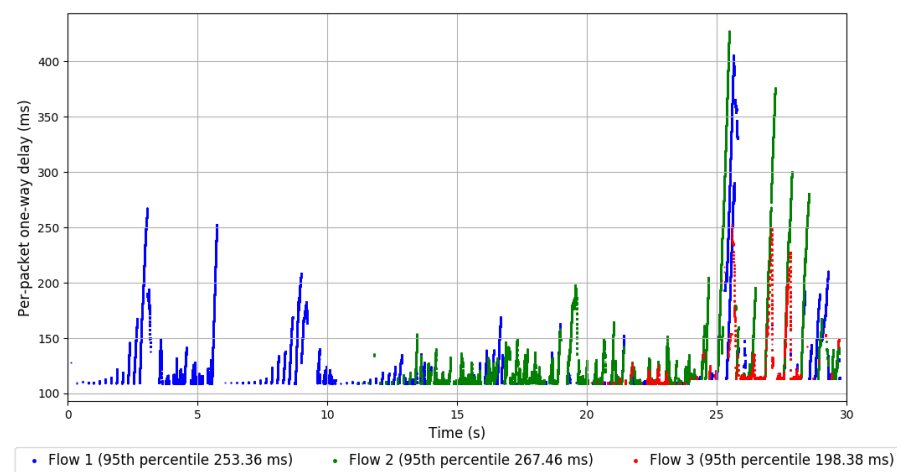
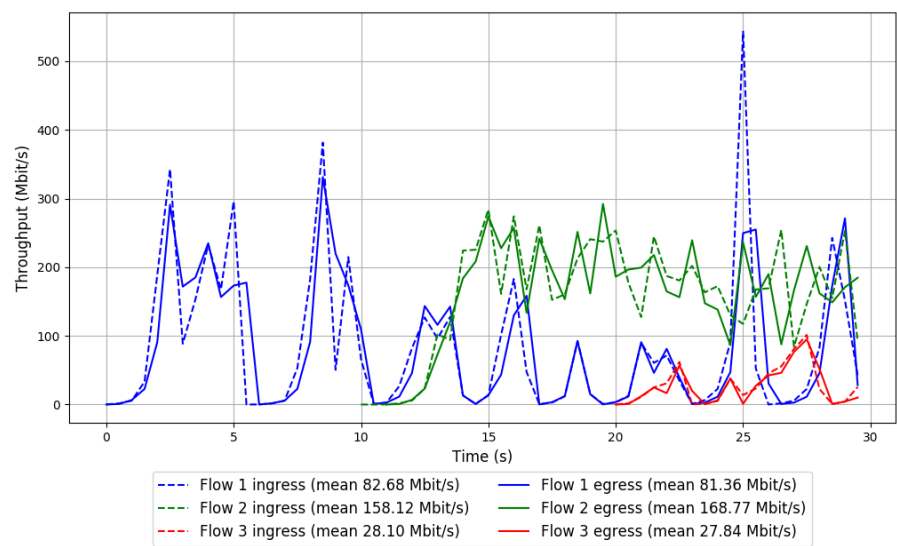
-- Flow 3:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 198.375 ms

Loss rate: 3.22%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-26 10:07:19

End at: 2018-01-26 10:07:49

Below is generated by plot.py at 2018-01-26 14:52:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.92 Mbit/s

95th percentile per-packet one-way delay: 245.711 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 149.99 Mbit/s

95th percentile per-packet one-way delay: 229.900 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 178.28 Mbit/s

95th percentile per-packet one-way delay: 253.744 ms

Loss rate: 0.95%

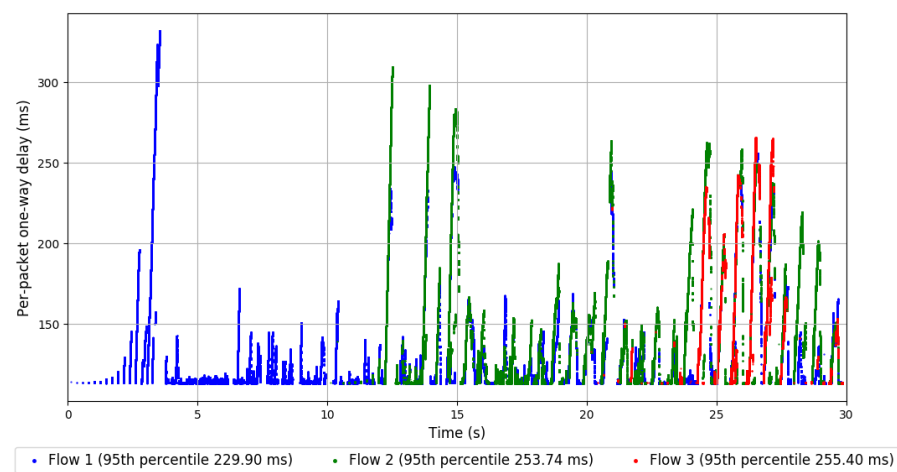
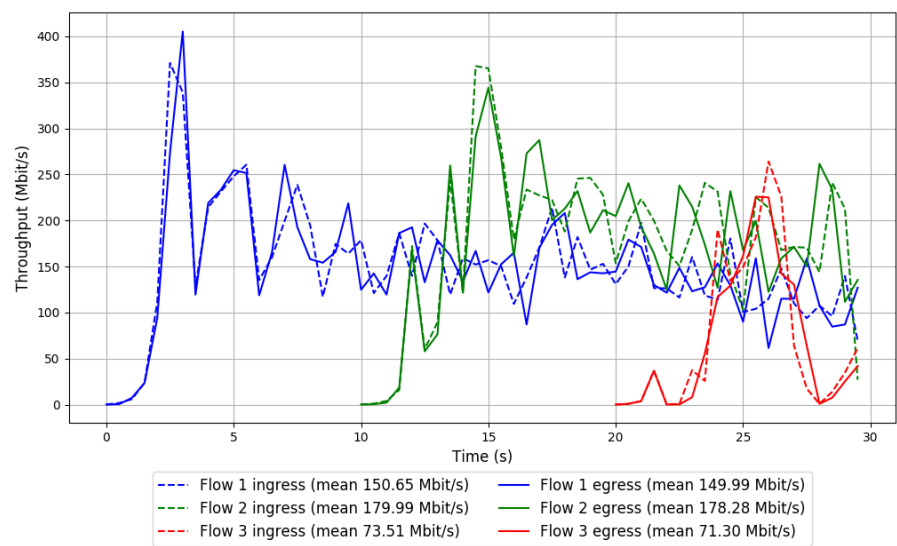
-- Flow 3:

Average throughput: 71.30 Mbit/s

95th percentile per-packet one-way delay: 255.404 ms

Loss rate: 4.69%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 10:23:18

End at: 2018-01-26 10:23:48

Below is generated by plot.py at 2018-01-26 14:52:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.35 Mbit/s

95th percentile per-packet one-way delay: 202.801 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 162.353 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 102.45 Mbit/s

95th percentile per-packet one-way delay: 221.156 ms

Loss rate: 3.26%

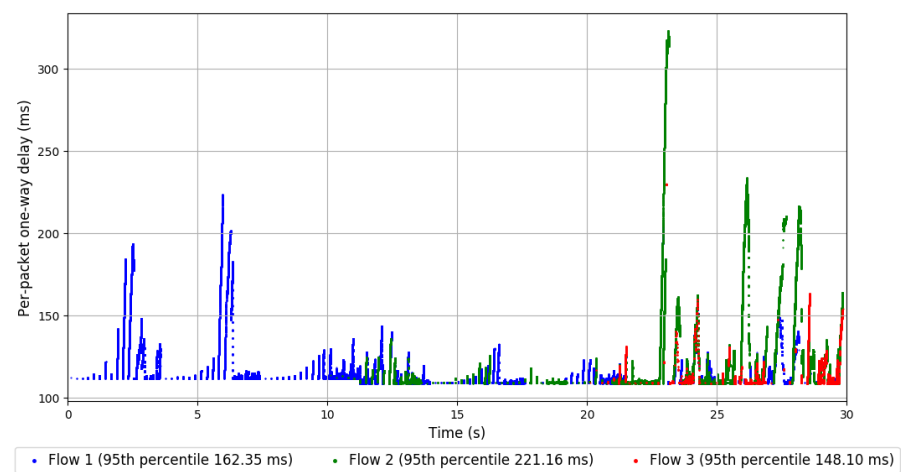
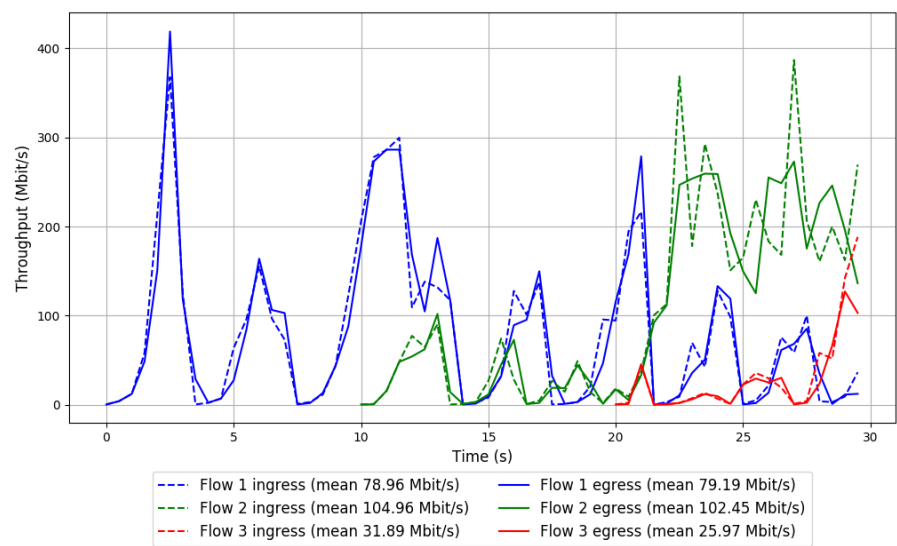
-- Flow 3:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 148.099 ms

Loss rate: 19.61%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 10:39:16

End at: 2018-01-26 10:39:46

Below is generated by plot.py at 2018-01-26 14:52:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.05 Mbit/s

95th percentile per-packet one-way delay: 361.083 ms

Loss rate: 16.59%

-- Flow 1:

Average throughput: 153.87 Mbit/s

95th percentile per-packet one-way delay: 366.089 ms

Loss rate: 21.15%

-- Flow 2:

Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 143.786 ms

Loss rate: 3.52%

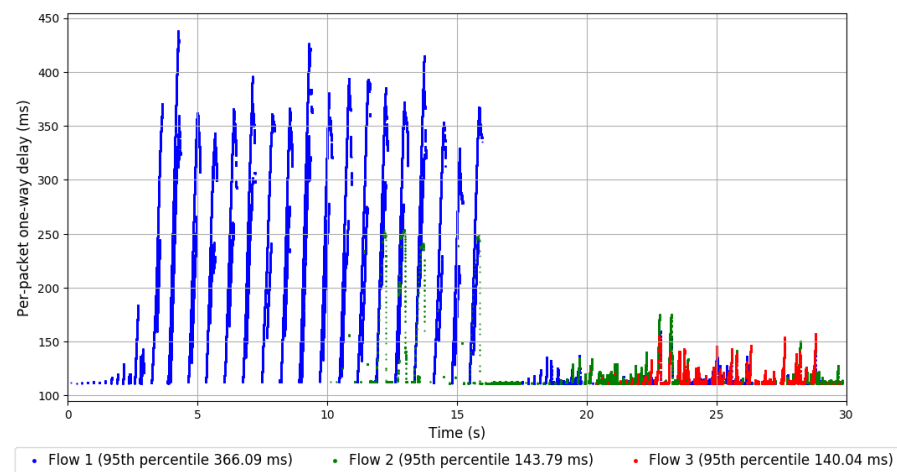
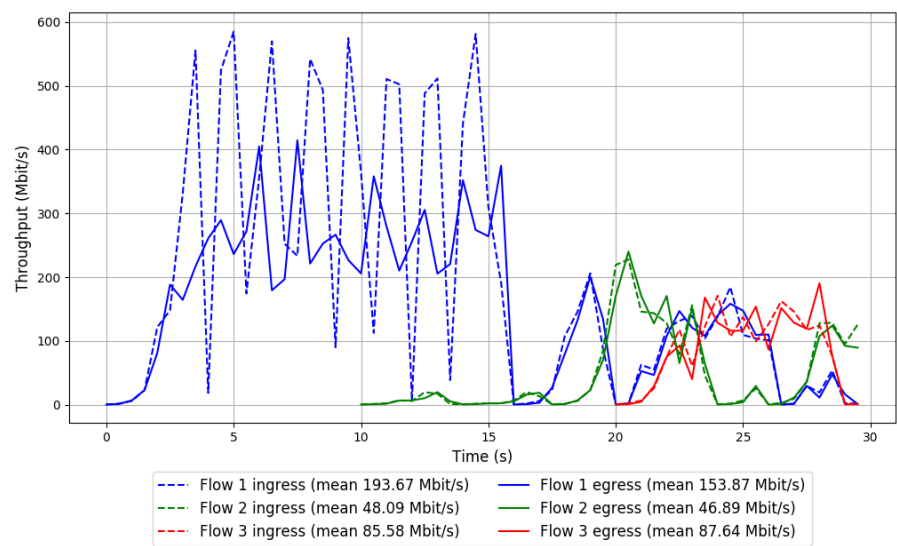
-- Flow 3:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 140.042 ms

Loss rate: 0.06%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 10:54:56

End at: 2018-01-26 10:55:26

Below is generated by plot.py at 2018-01-26 14:52:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.82 Mbit/s

95th percentile per-packet one-way delay: 243.170 ms

Loss rate: 3.17%

-- Flow 1:

Average throughput: 121.04 Mbit/s

95th percentile per-packet one-way delay: 207.360 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 248.801 ms

Loss rate: 2.00%

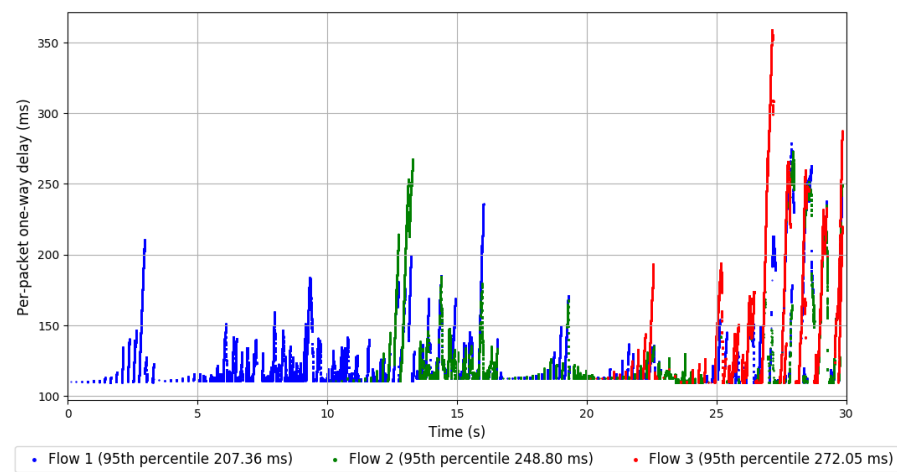
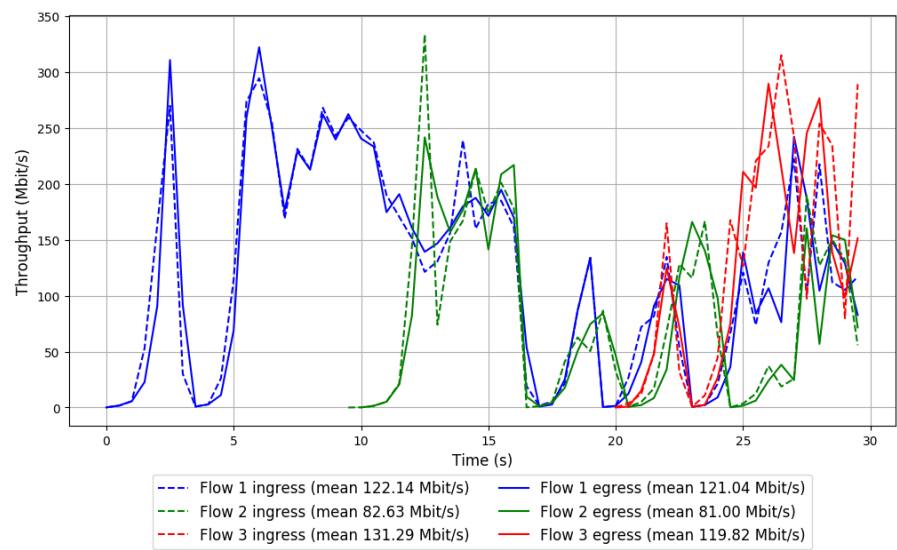
-- Flow 3:

Average throughput: 119.82 Mbit/s

95th percentile per-packet one-way delay: 272.054 ms

Loss rate: 9.77%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 11:10:23

End at: 2018-01-26 11:10:53

Below is generated by plot.py at 2018-01-26 14:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.62 Mbit/s

95th percentile per-packet one-way delay: 241.916 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 215.63 Mbit/s

95th percentile per-packet one-way delay: 245.360 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 179.125 ms

Loss rate: 4.11%

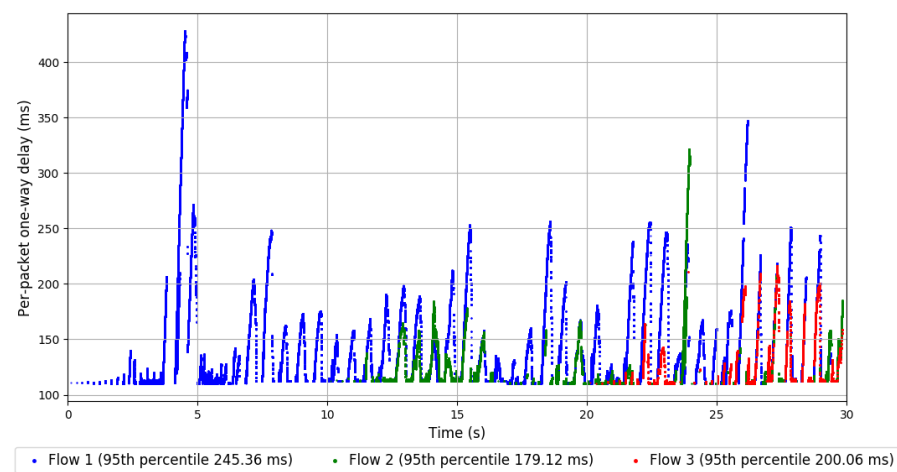
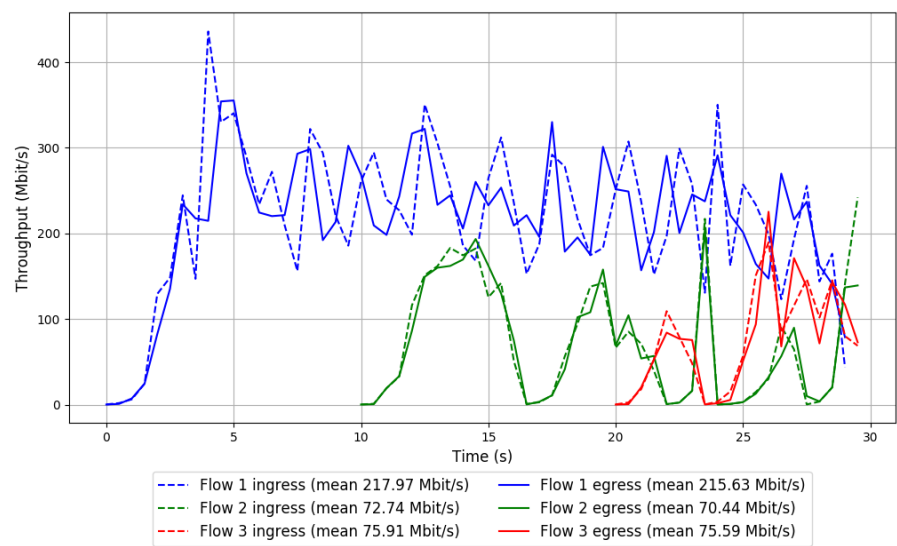
-- Flow 3:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 200.055 ms

Loss rate: 0.05%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 11:26:20

End at: 2018-01-26 11:26:50

Below is generated by plot.py at 2018-01-26 14:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.27 Mbit/s

95th percentile per-packet one-way delay: 213.918 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 102.53 Mbit/s

95th percentile per-packet one-way delay: 226.415 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 159.87 Mbit/s

95th percentile per-packet one-way delay: 197.745 ms

Loss rate: 2.08%

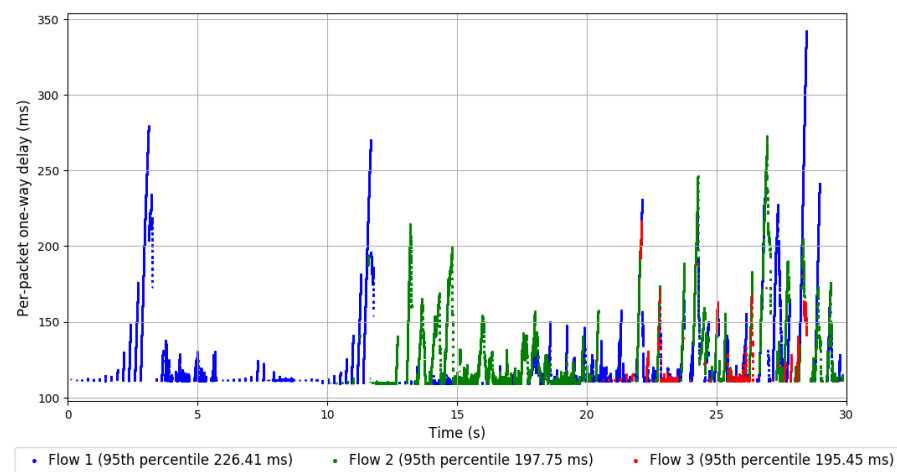
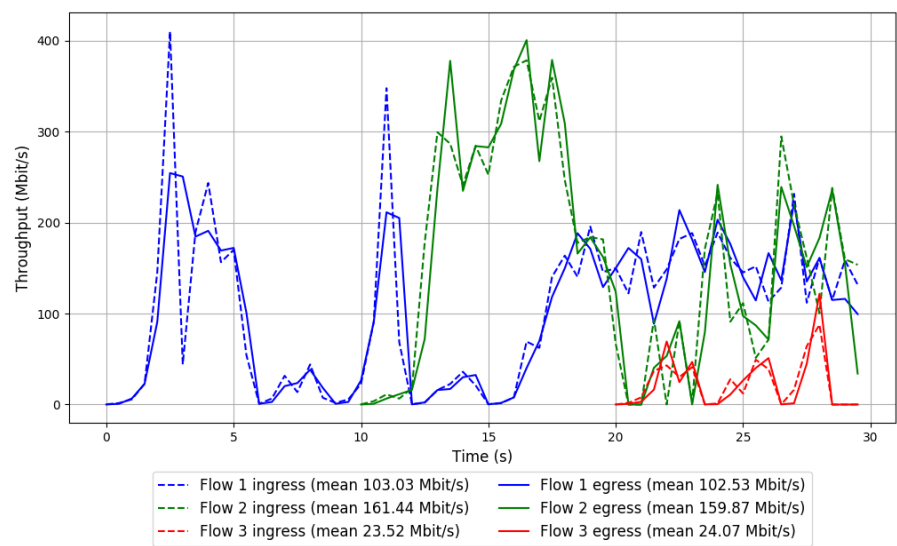
-- Flow 3:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 195.450 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 09:17:14

End at: 2018-01-26 09:17:44

Below is generated by plot.py at 2018-01-26 14:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.66 Mbit/s

95th percentile per-packet one-way delay: 113.498 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 71.14 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 113.469 ms

Loss rate: 1.30%

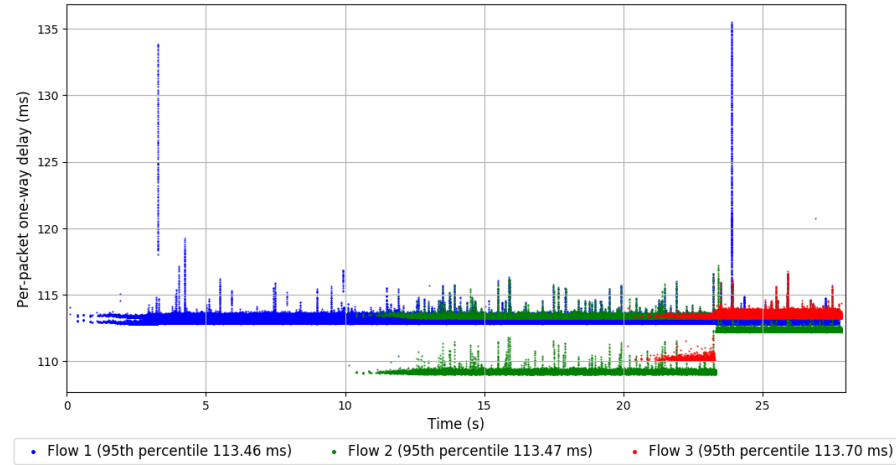
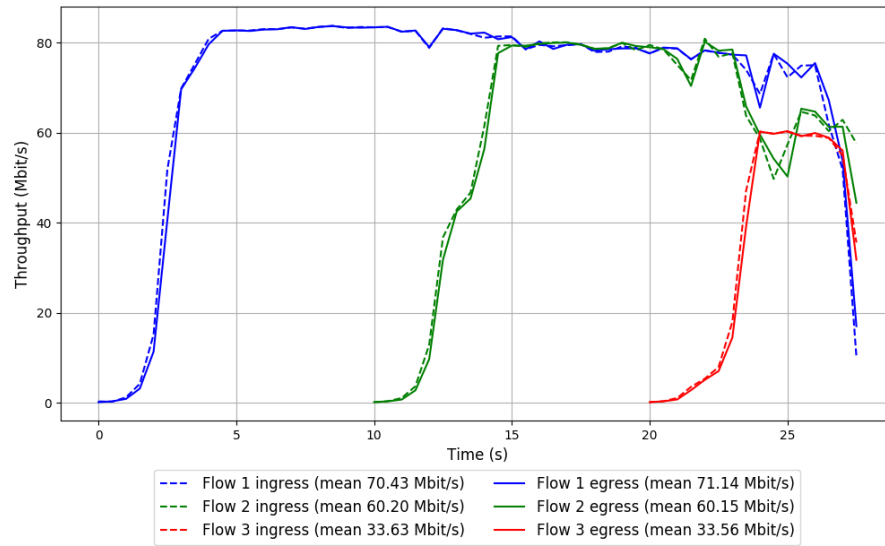
-- Flow 3:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 113.701 ms

Loss rate: 2.96%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 09:32:48

End at: 2018-01-26 09:33:18

Below is generated by plot.py at 2018-01-26 14:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.91 Mbit/s

95th percentile per-packet one-way delay: 113.258 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 113.283 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 59.70 Mbit/s

95th percentile per-packet one-way delay: 112.051 ms

Loss rate: 1.31%

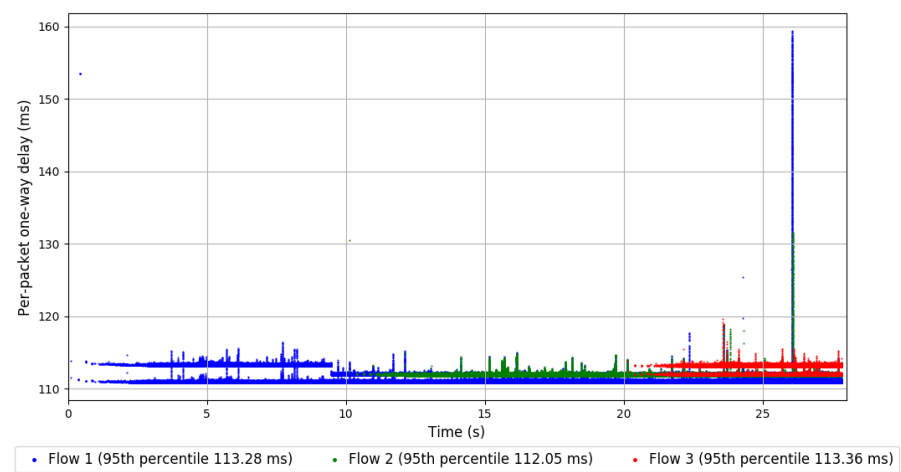
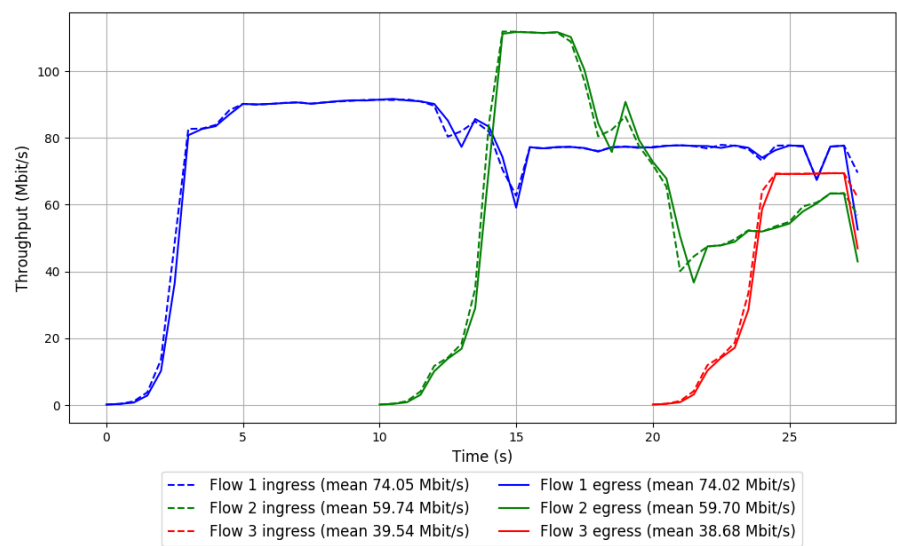
-- Flow 3:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 113.356 ms

Loss rate: 4.93%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 09:48:53

End at: 2018-01-26 09:49:23

Below is generated by plot.py at 2018-01-26 14:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 113.626 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 43.34 Mbit/s

95th percentile per-packet one-way delay: 113.293 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 64.19 Mbit/s

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

Loss rate: 1.15%

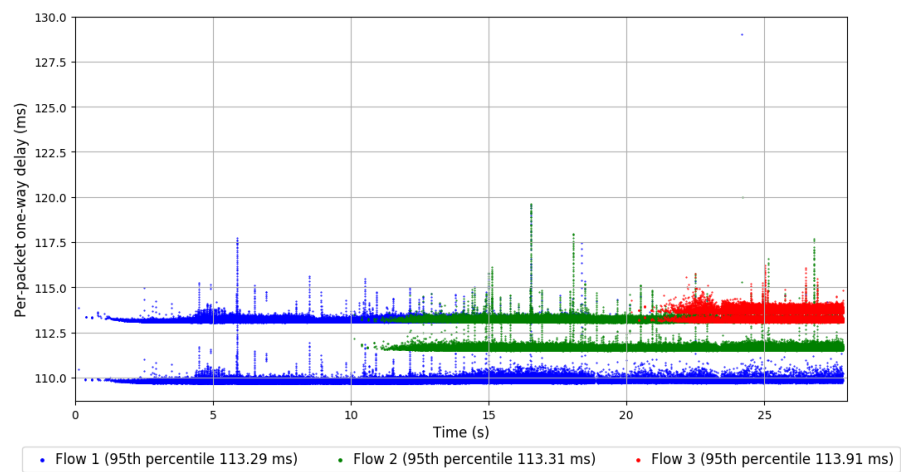
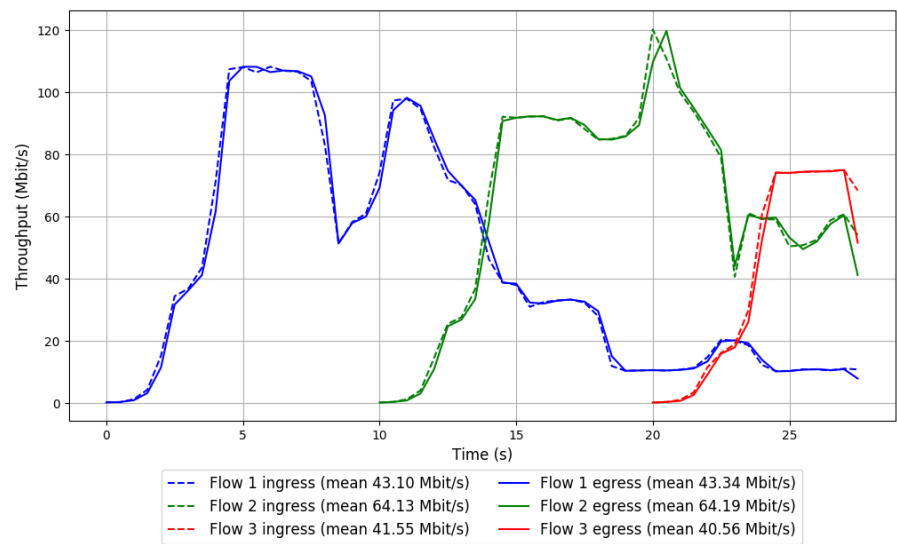
-- Flow 3:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 113.913 ms

Loss rate: 5.14%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 10:04:46

End at: 2018-01-26 10:05:16

Below is generated by plot.py at 2018-01-26 14:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.53 Mbit/s

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

Loss rate: 0.99%

-- Flow 1:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 112.994 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 54.36 Mbit/s

95th percentile per-packet one-way delay: 113.094 ms

Loss rate: 1.55%

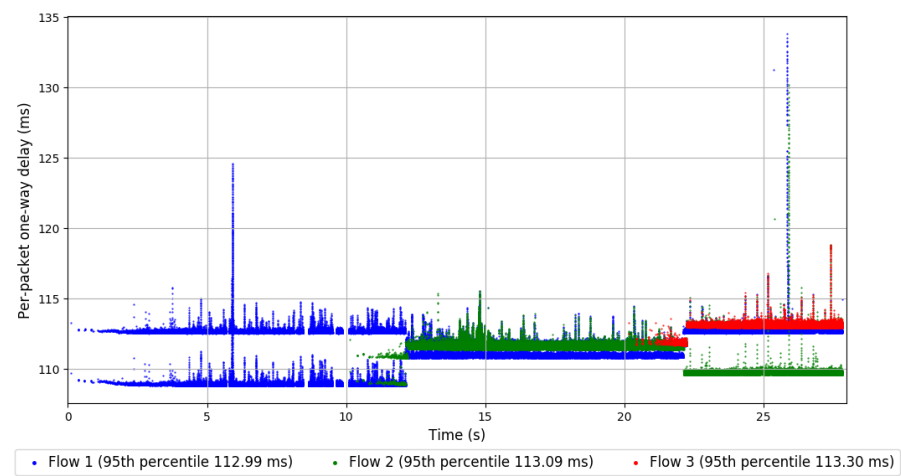
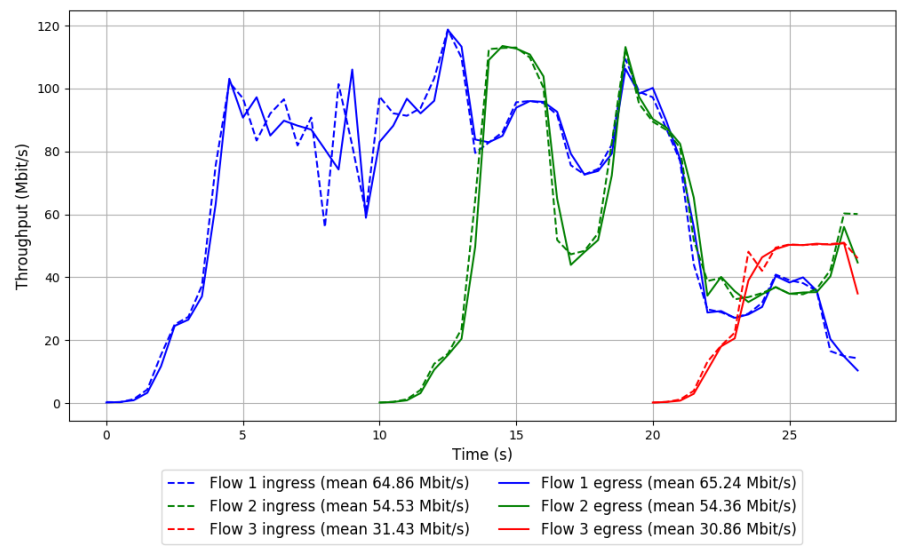
-- Flow 3:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 113.301 ms

Loss rate: 4.59%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 10:20:44

End at: 2018-01-26 10:21:14

Below is generated by plot.py at 2018-01-26 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.06 Mbit/s

95th percentile per-packet one-way delay: 112.948 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 69.81 Mbit/s

95th percentile per-packet one-way delay: 112.935 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 112.973 ms

Loss rate: 0.33%

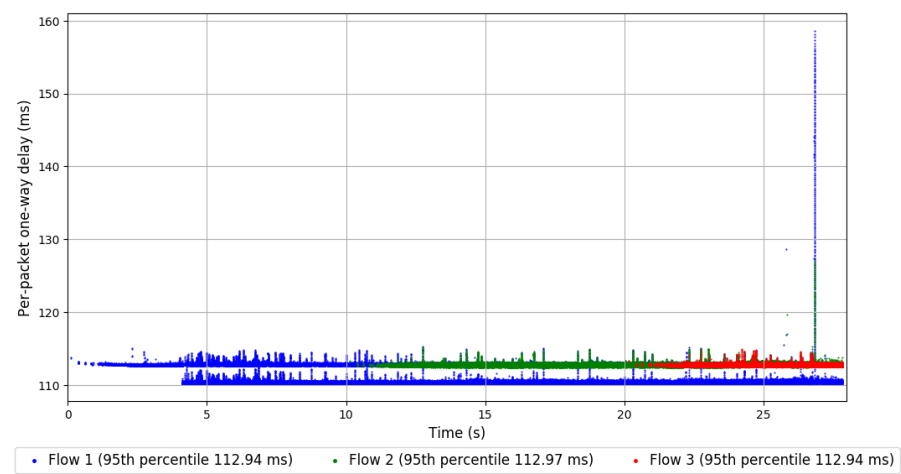
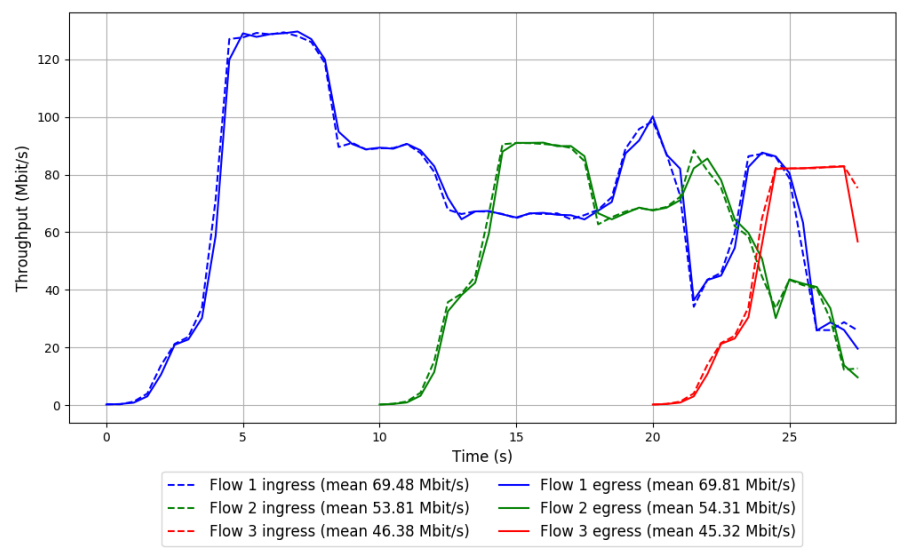
-- Flow 3:

Average throughput: 45.32 Mbit/s

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

Loss rate: 5.09%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 10:36:40

End at: 2018-01-26 10:37:10

Below is generated by plot.py at 2018-01-26 14:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.83 Mbit/s

95th percentile per-packet one-way delay: 112.843 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 112.831 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 67.63 Mbit/s

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

Loss rate: 1.14%

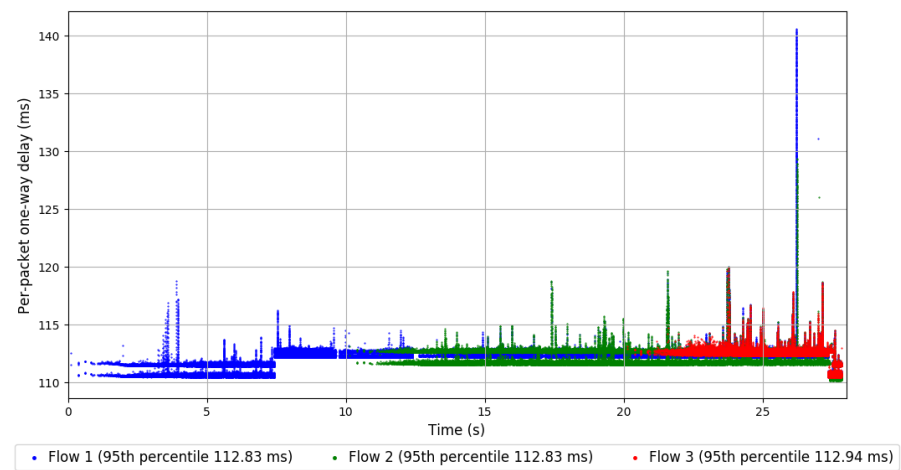
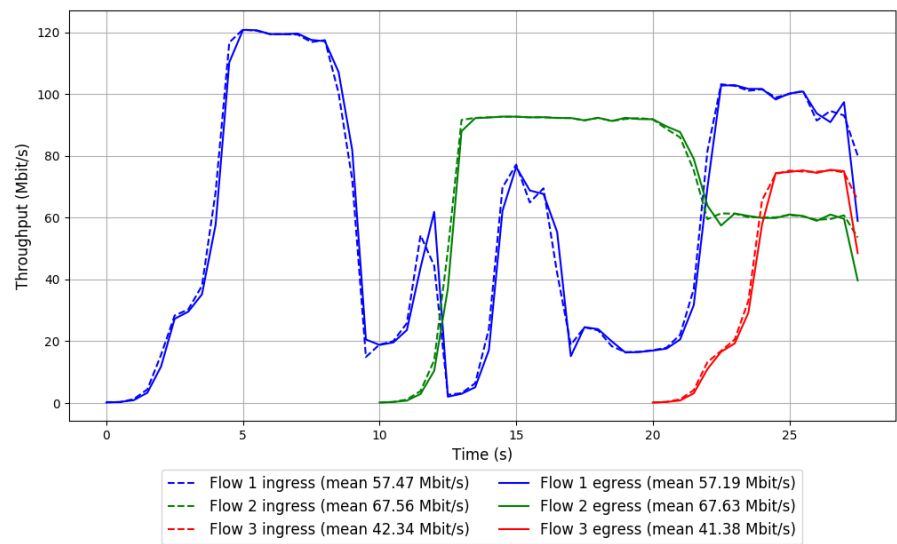
-- Flow 3:

Average throughput: 41.38 Mbit/s

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

Loss rate: 5.03%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 10:52:25

End at: 2018-01-26 10:52:55

Below is generated by plot.py at 2018-01-26 14:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.77 Mbit/s

95th percentile per-packet one-way delay: 112.637 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 112.592 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 56.88 Mbit/s

95th percentile per-packet one-way delay: 112.656 ms

Loss rate: 0.27%

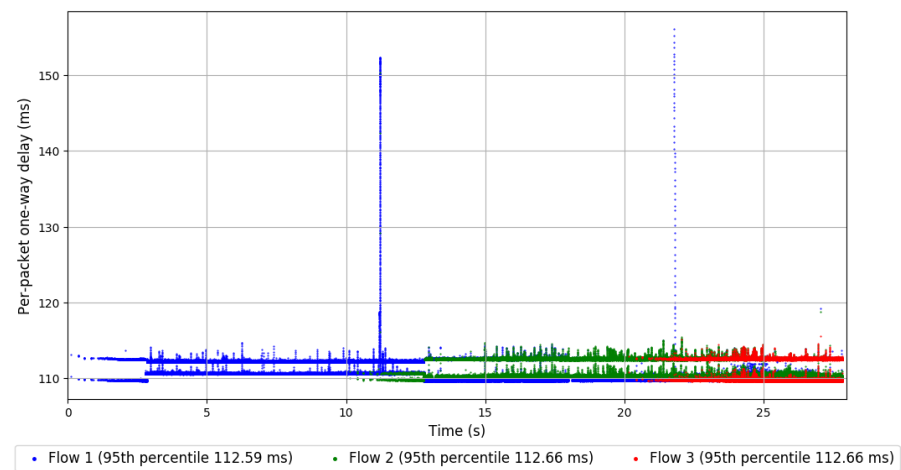
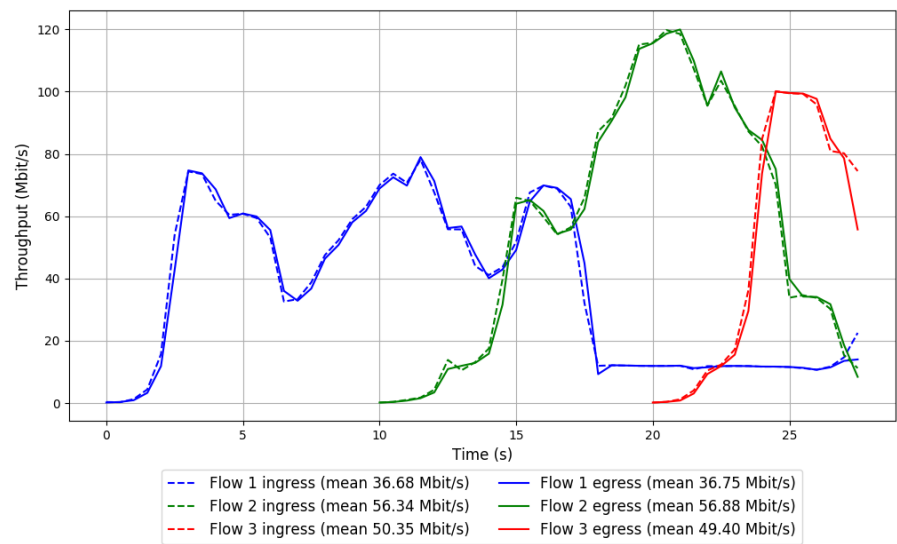
-- Flow 3:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 112.655 ms

Loss rate: 4.64%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 11:07:46

End at: 2018-01-26 11:08:16

Below is generated by plot.py at 2018-01-26 14:57:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.67 Mbit/s

95th percentile per-packet one-way delay: 112.539 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 62.10 Mbit/s

95th percentile per-packet one-way delay: 112.498 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 112.559 ms

Loss rate: 1.31%

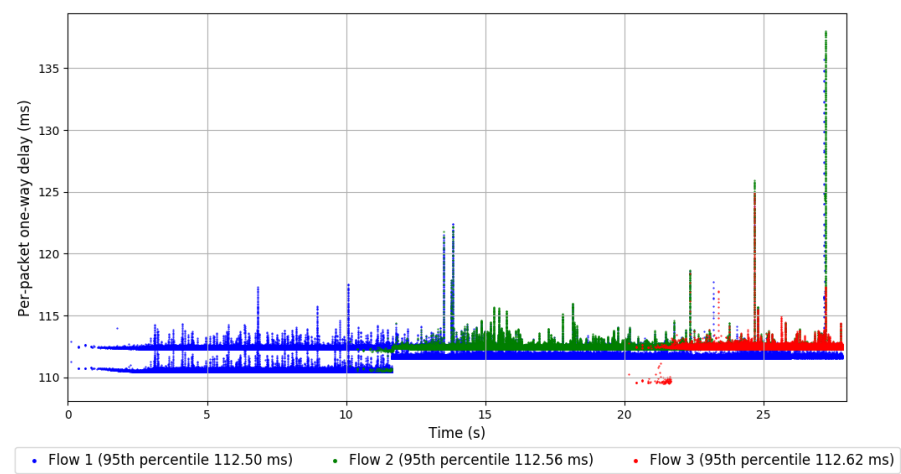
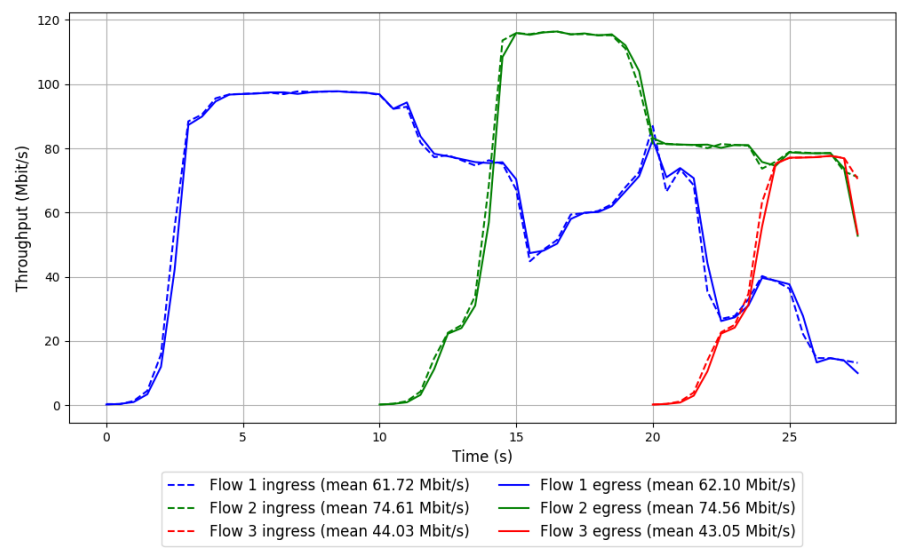
-- Flow 3:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 112.621 ms

Loss rate: 4.98%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 11:23:43

End at: 2018-01-26 11:24:13

Below is generated by plot.py at 2018-01-26 14:57:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.72 Mbit/s

95th percentile per-packet one-way delay: 111.396 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 65.90 Mbit/s

95th percentile per-packet one-way delay: 111.346 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 68.58 Mbit/s

95th percentile per-packet one-way delay: 111.334 ms

Loss rate: 1.18%

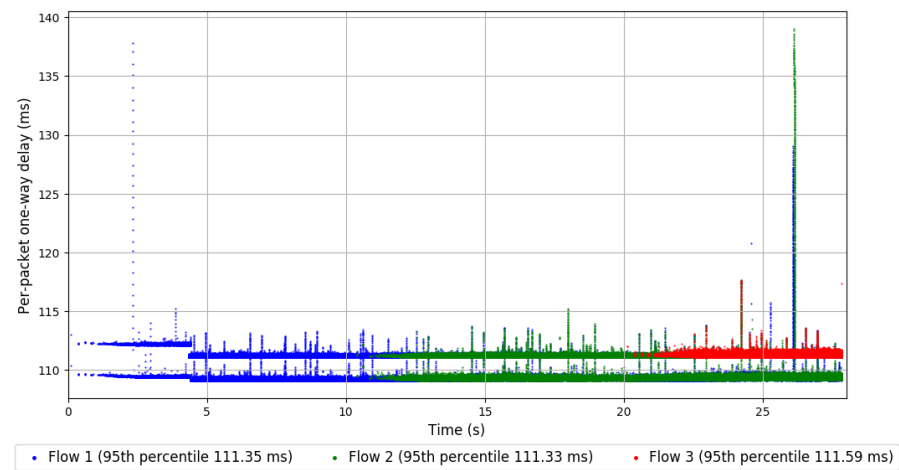
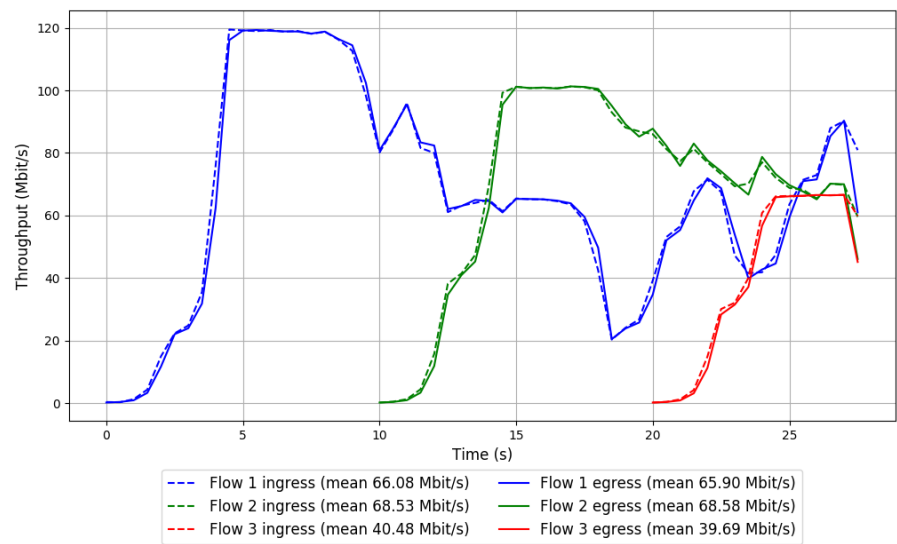
-- Flow 3:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 111.591 ms

Loss rate: 4.62%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 11:39:27

End at: 2018-01-26 11:39:57

Below is generated by plot.py at 2018-01-26 14:57:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.88 Mbit/s

95th percentile per-packet one-way delay: 111.442 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 111.490 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 111.371 ms

Loss rate: 2.19%

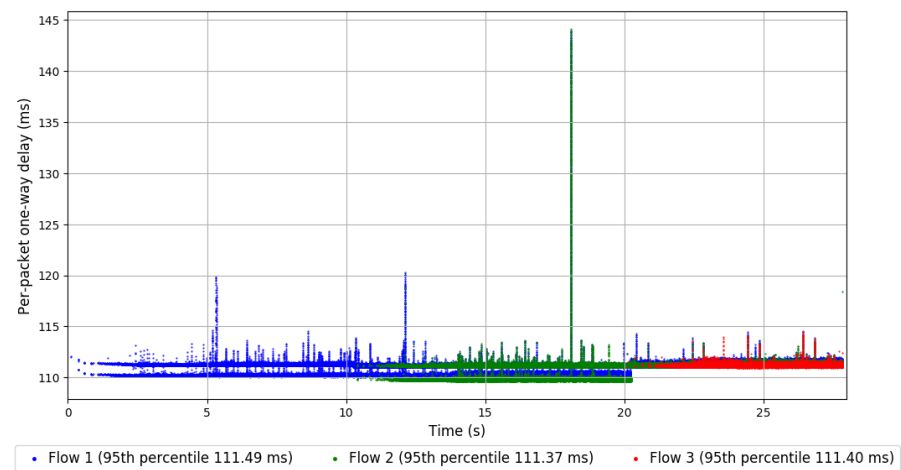
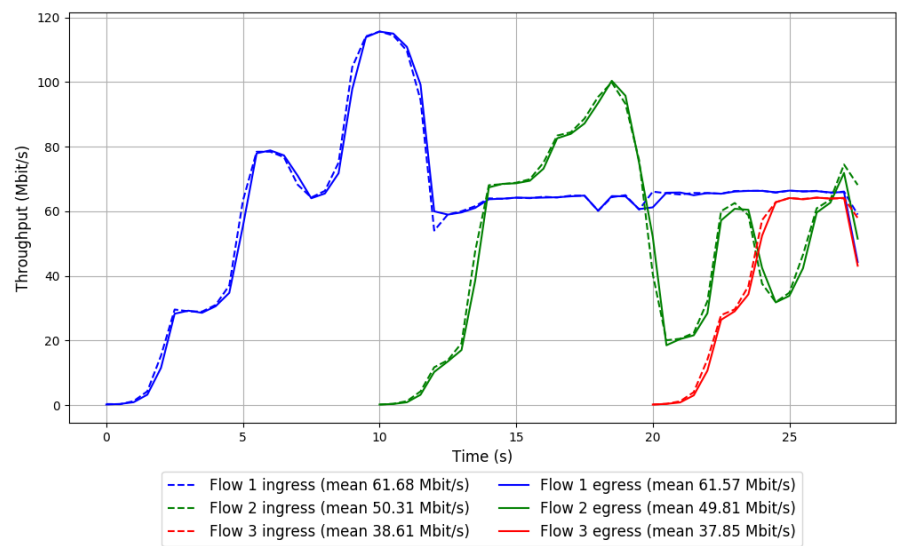
-- Flow 3:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 111.398 ms

Loss rate: 4.74%

Run 10: Report of Copa — Data Link

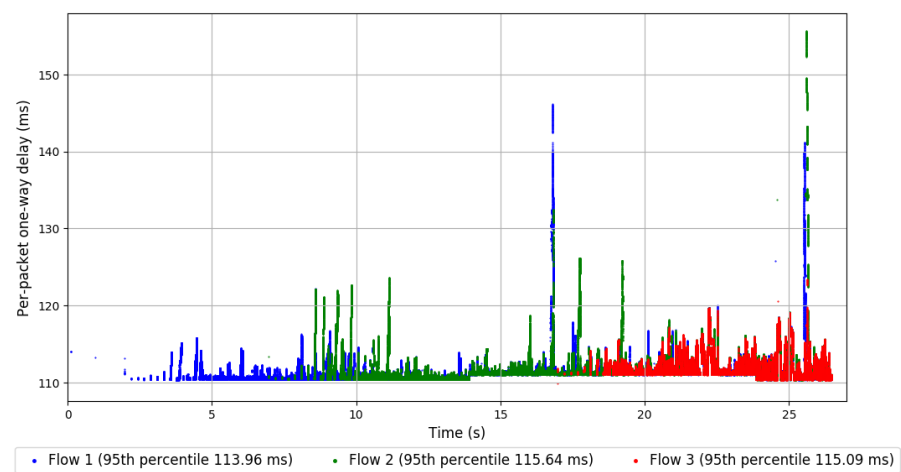
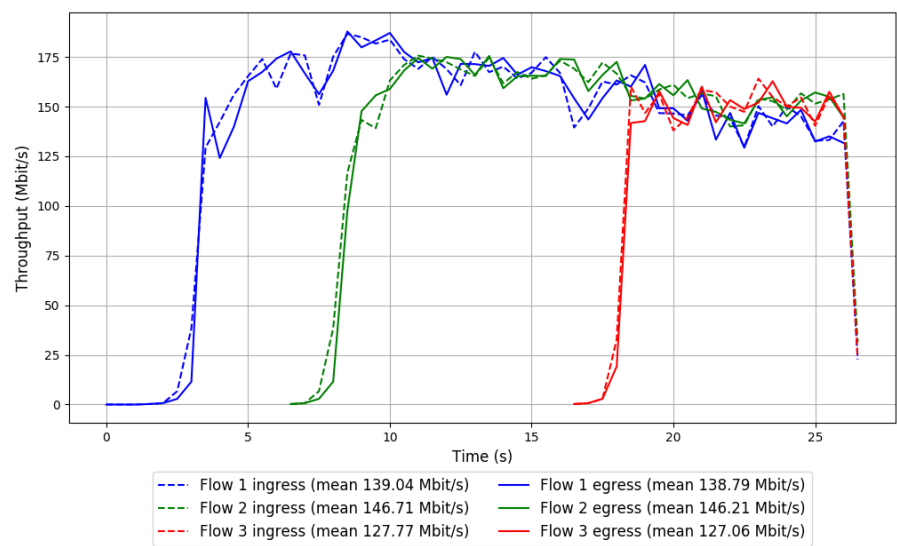


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 09:06:12
End at: 2018-01-26 09:06:42

# Below is generated by plot.py at 2018-01-26 14:59:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 292.80 Mbit/s
95th percentile per-packet one-way delay: 114.704 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 138.79 Mbit/s
95th percentile per-packet one-way delay: 113.964 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 146.21 Mbit/s
95th percentile per-packet one-way delay: 115.638 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 127.06 Mbit/s
95th percentile per-packet one-way delay: 115.094 ms
Loss rate: 2.83%
```


Run 1: Report of Indigo-2-256 — Data Link



Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 09:22:03

End at: 2018-01-26 09:22:33

Below is generated by plot.py at 2018-01-26 15:00:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.25 Mbit/s

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

Loss rate: 1.00%

-- Flow 1:

Average throughput: 143.00 Mbit/s

95th percentile per-packet one-way delay: 115.268 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 127.37 Mbit/s

95th percentile per-packet one-way delay: 116.242 ms

Loss rate: 1.04%

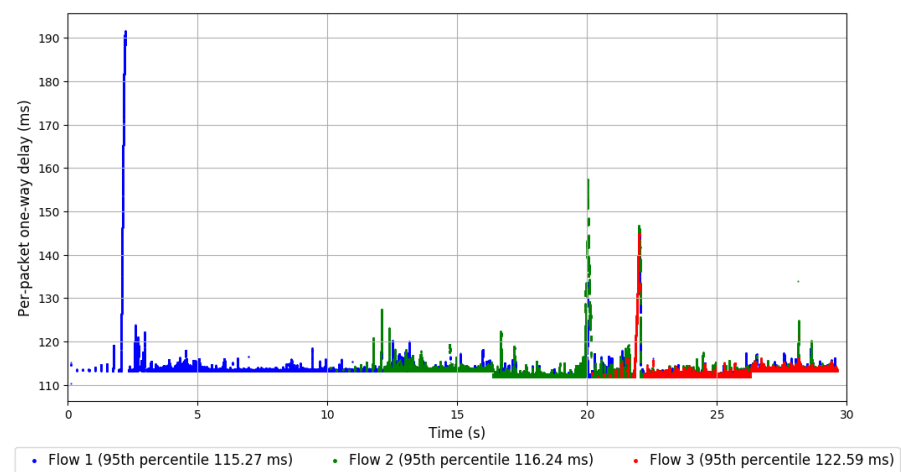
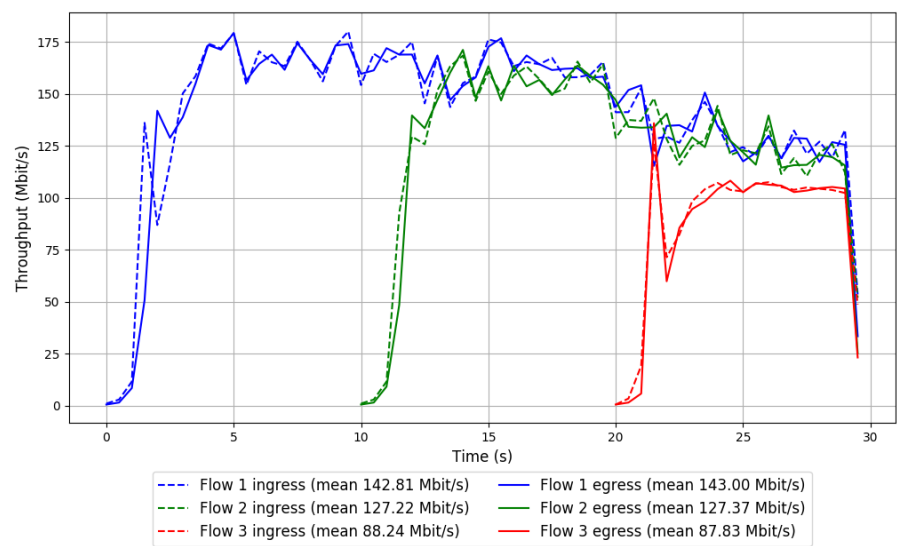
-- Flow 3:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 122.586 ms

Loss rate: 2.77%

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 09:37:39

End at: 2018-01-26 09:38:09

Below is generated by plot.py at 2018-01-26 15:01:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.29 Mbit/s

95th percentile per-packet one-way delay: 116.293 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 166.59 Mbit/s

95th percentile per-packet one-way delay: 115.297 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 154.24 Mbit/s

95th percentile per-packet one-way delay: 117.083 ms

Loss rate: 1.01%

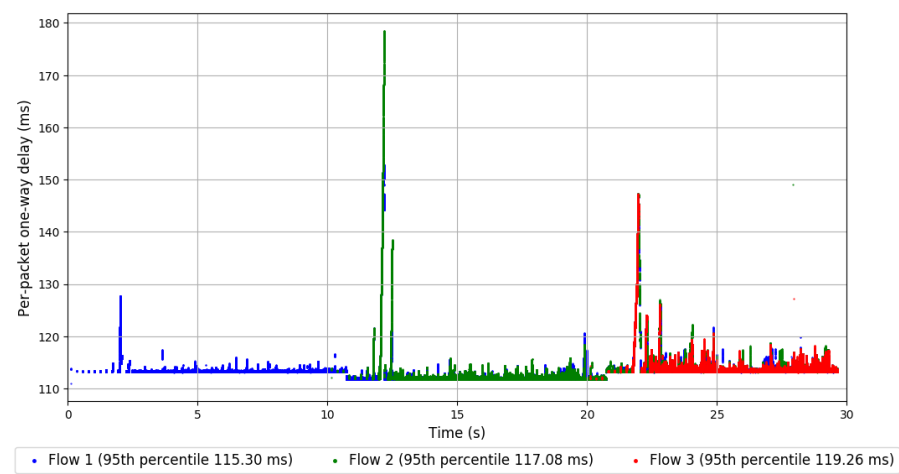
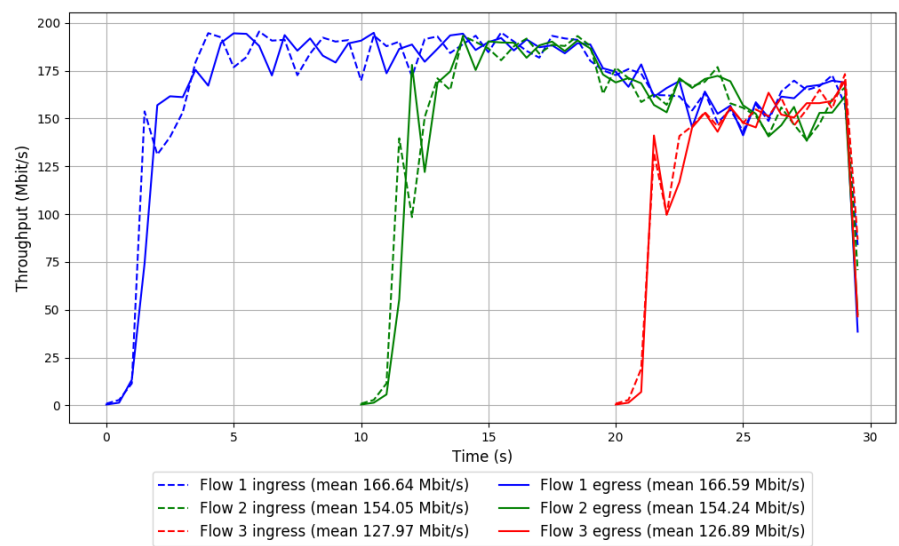
-- Flow 3:

Average throughput: 126.89 Mbit/s

95th percentile per-packet one-way delay: 119.262 ms

Loss rate: 3.12%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 09:53:45

End at: 2018-01-26 09:54:15

Below is generated by plot.py at 2018-01-26 15:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.44 Mbit/s

95th percentile per-packet one-way delay: 115.066 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 161.21 Mbit/s

95th percentile per-packet one-way delay: 114.809 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 150.38 Mbit/s

95th percentile per-packet one-way delay: 116.138 ms

Loss rate: 1.28%

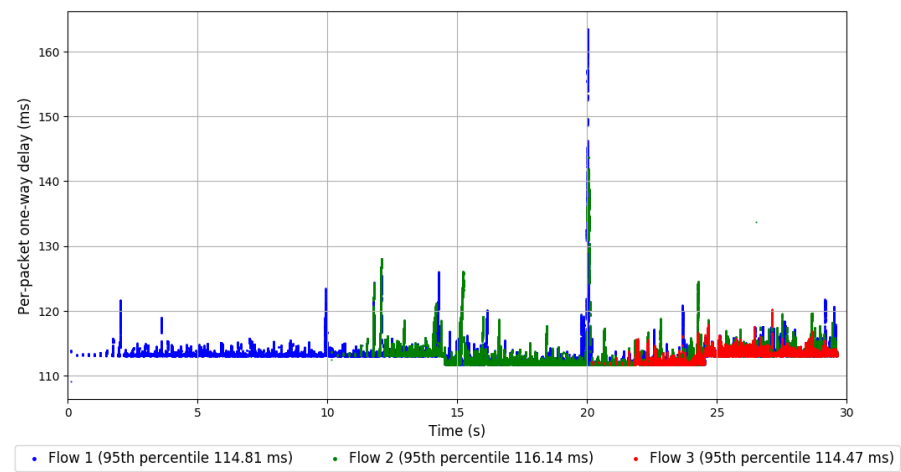
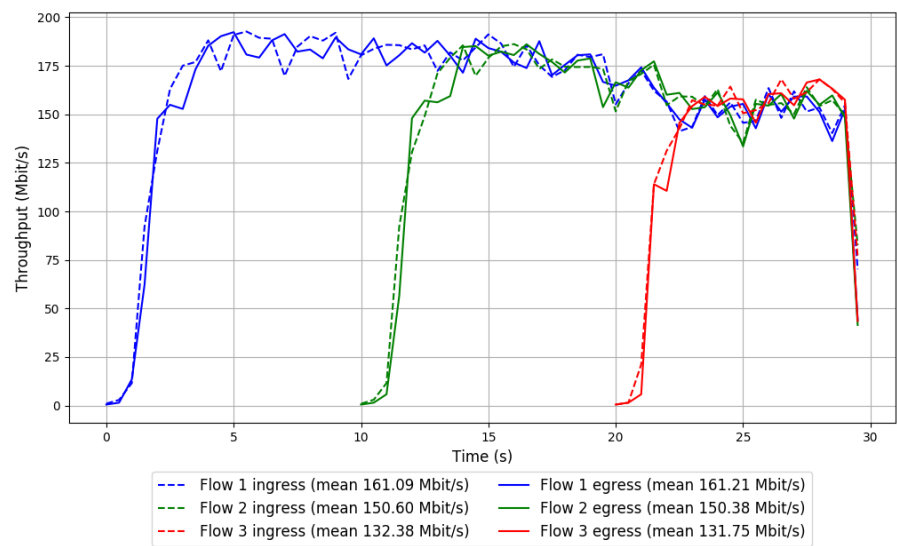
-- Flow 3:

Average throughput: 131.75 Mbit/s

95th percentile per-packet one-way delay: 114.474 ms

Loss rate: 2.75%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 10:09:43

End at: 2018-01-26 10:10:13

Below is generated by plot.py at 2018-01-26 15:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.22 Mbit/s

95th percentile per-packet one-way delay: 114.325 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 159.21 Mbit/s

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

Loss rate: 0.74%

-- Flow 2:

Average throughput: 138.06 Mbit/s

95th percentile per-packet one-way delay: 115.406 ms

Loss rate: 1.14%

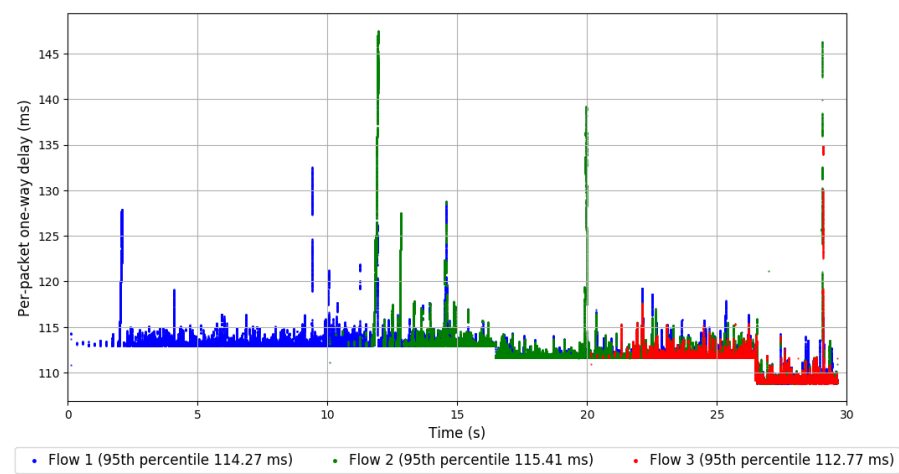
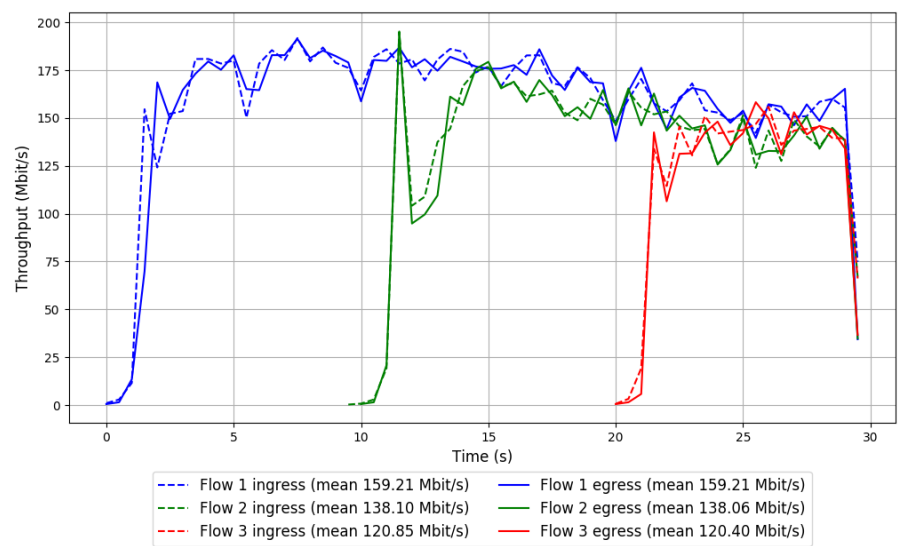
-- Flow 3:

Average throughput: 120.40 Mbit/s

95th percentile per-packet one-way delay: 112.772 ms

Loss rate: 2.64%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 10:25:32

End at: 2018-01-26 10:26:02

Below is generated by plot.py at 2018-01-26 15:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.10 Mbit/s

95th percentile per-packet one-way delay: 114.436 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 147.67 Mbit/s

95th percentile per-packet one-way delay: 113.802 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 144.07 Mbit/s

95th percentile per-packet one-way delay: 115.019 ms

Loss rate: 0.98%

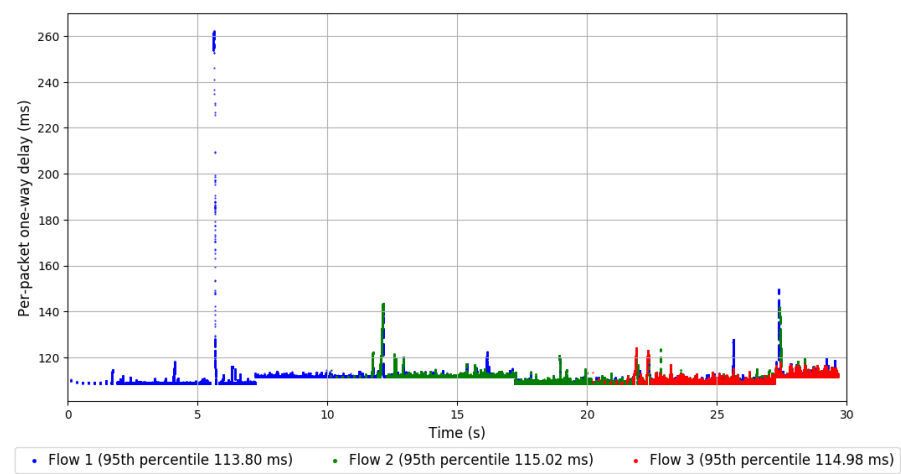
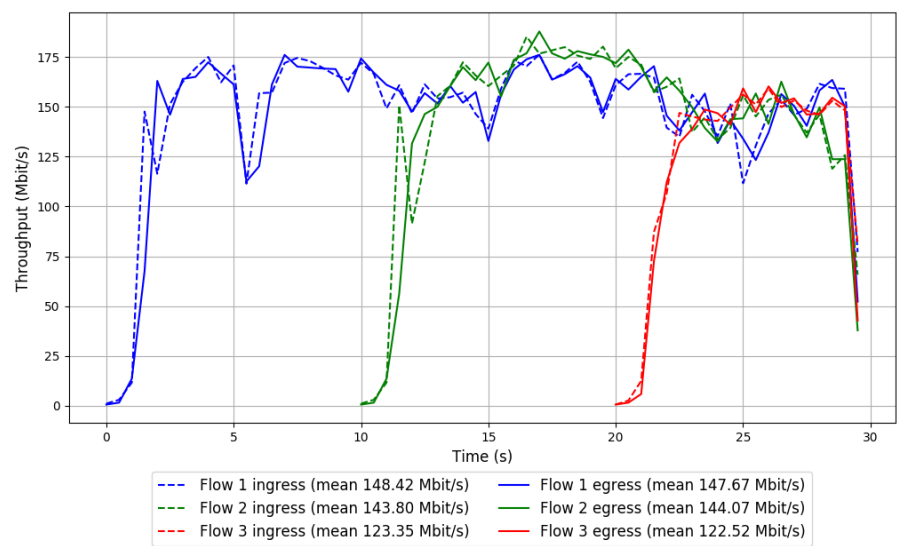
-- Flow 3:

Average throughput: 122.52 Mbit/s

95th percentile per-packet one-way delay: 114.982 ms

Loss rate: 2.95%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 10:41:36

End at: 2018-01-26 10:42:06

Below is generated by plot.py at 2018-01-26 15:02:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.04 Mbit/s

95th percentile per-packet one-way delay: 114.922 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 151.70 Mbit/s

95th percentile per-packet one-way delay: 114.437 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 143.53 Mbit/s

95th percentile per-packet one-way delay: 115.288 ms

Loss rate: 1.05%

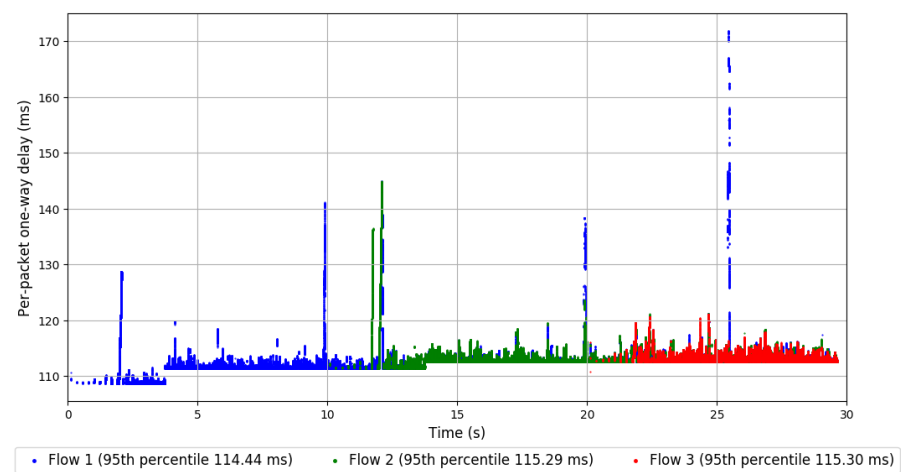
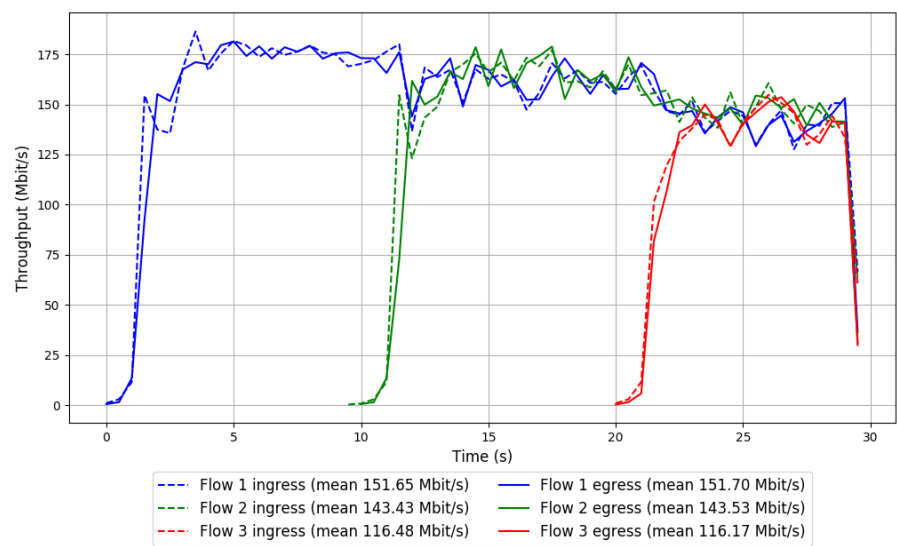
-- Flow 3:

Average throughput: 116.17 Mbit/s

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

Loss rate: 2.55%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 10:57:15

End at: 2018-01-26 10:57:45

Below is generated by plot.py at 2018-01-26 15:03:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.17 Mbit/s

95th percentile per-packet one-way delay: 116.978 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 158.81 Mbit/s

95th percentile per-packet one-way delay: 115.252 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 151.42 Mbit/s

95th percentile per-packet one-way delay: 118.969 ms

Loss rate: 1.13%

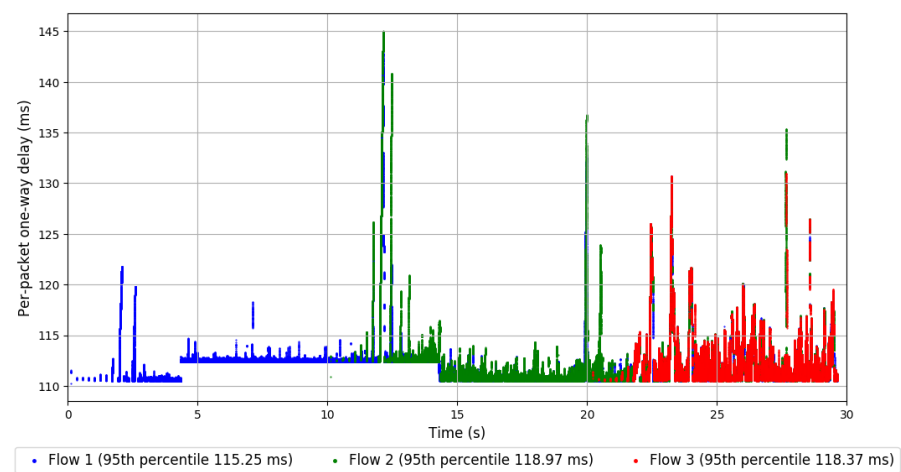
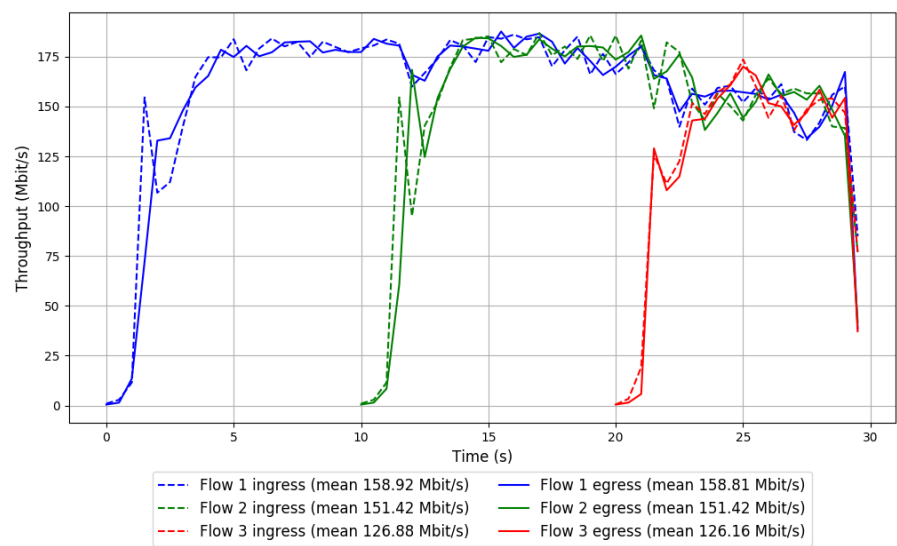
-- Flow 3:

Average throughput: 126.16 Mbit/s

95th percentile per-packet one-way delay: 118.372 ms

Loss rate: 2.86%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 11:12:47

End at: 2018-01-26 11:13:17

Below is generated by plot.py at 2018-01-26 15:04:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.05 Mbit/s

95th percentile per-packet one-way delay: 113.715 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 161.90 Mbit/s

95th percentile per-packet one-way delay: 113.141 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 104.19 Mbit/s

95th percentile per-packet one-way delay: 121.930 ms

Loss rate: 1.13%

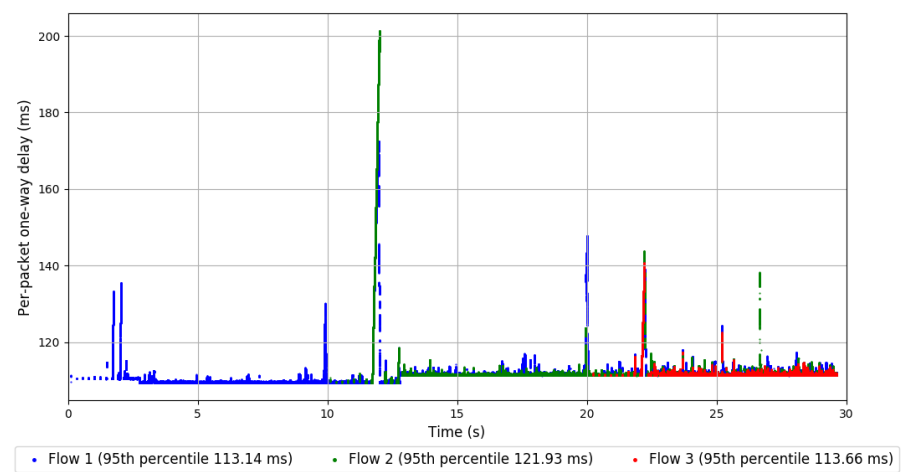
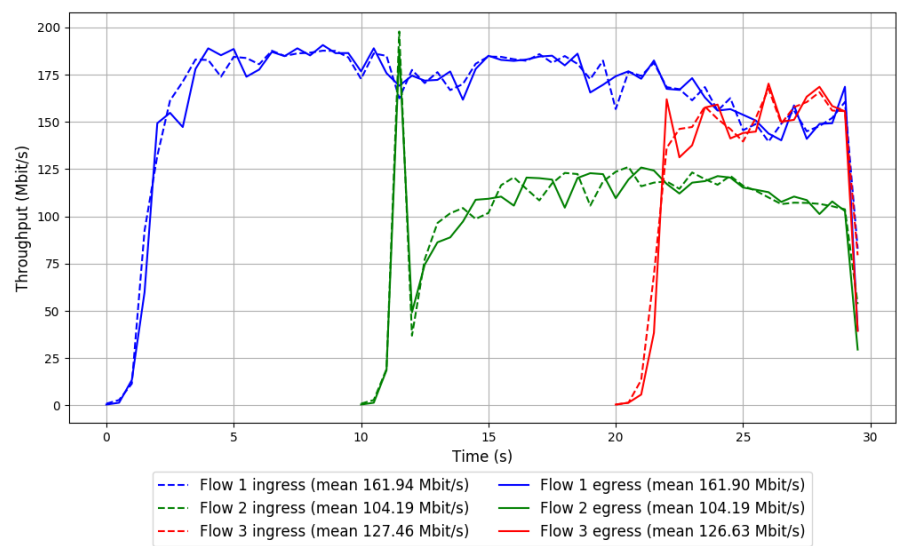
-- Flow 3:

Average throughput: 126.63 Mbit/s

95th percentile per-packet one-way delay: 113.656 ms

Loss rate: 2.97%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 11:28:37

End at: 2018-01-26 11:29:07

Below is generated by plot.py at 2018-01-26 15:05:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.21 Mbit/s

95th percentile per-packet one-way delay: 113.540 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 159.54 Mbit/s

95th percentile per-packet one-way delay: 112.830 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 145.61 Mbit/s

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

Loss rate: 1.18%

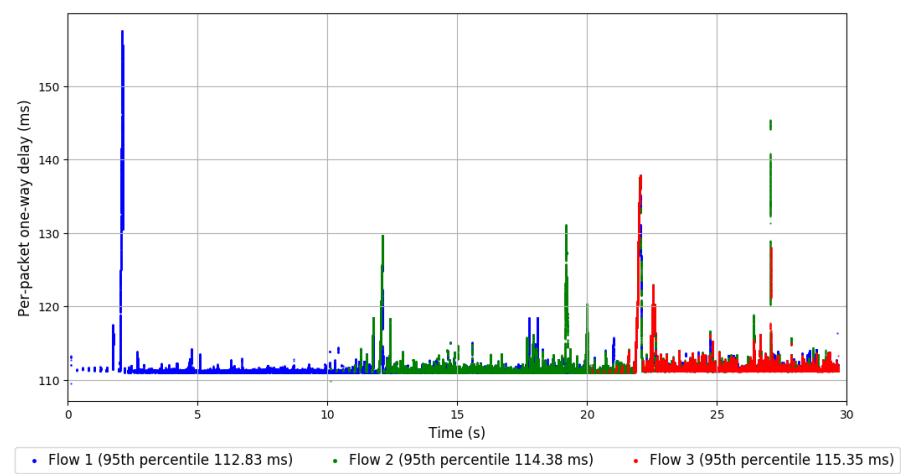
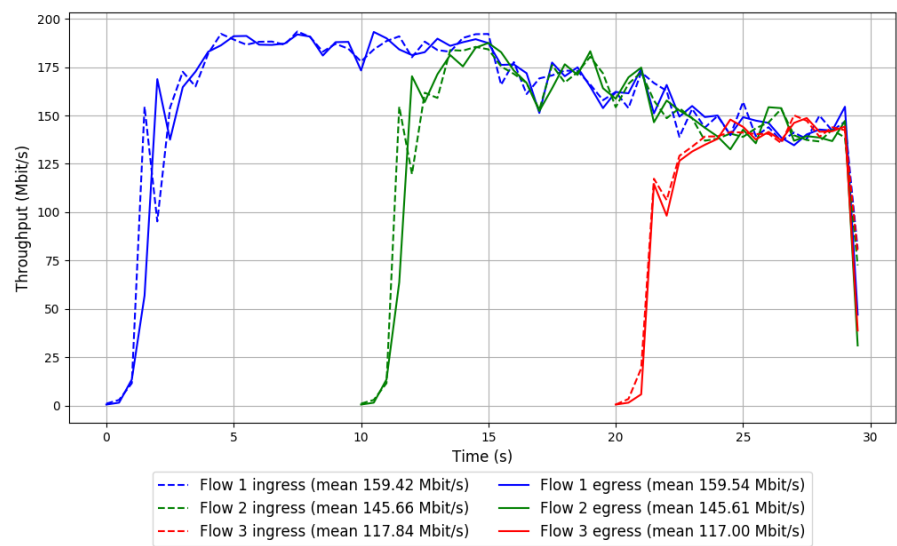
-- Flow 3:

Average throughput: 117.00 Mbit/s

95th percentile per-packet one-way delay: 115.351 ms

Loss rate: 2.99%

Run 10: Report of Indigo-2-256 — Data Link

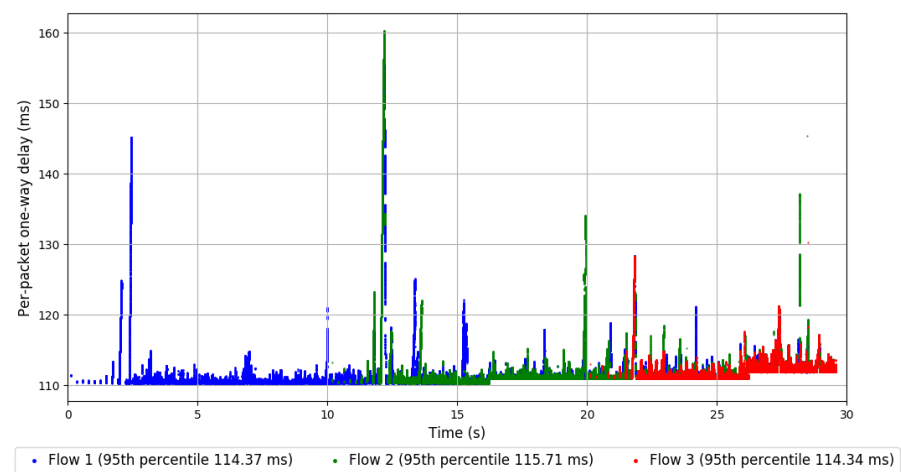
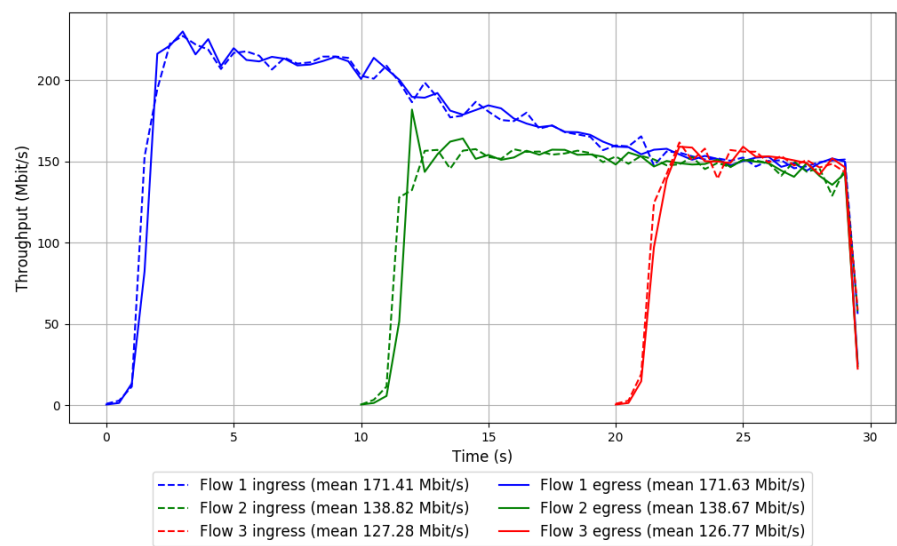


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 09:12:03
End at: 2018-01-26 09:12:33

# Below is generated by plot.py at 2018-01-26 15:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.67 Mbit/s
95th percentile per-packet one-way delay: 114.710 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 171.63 Mbit/s
95th percentile per-packet one-way delay: 114.372 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 138.67 Mbit/s
95th percentile per-packet one-way delay: 115.710 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 126.77 Mbit/s
95th percentile per-packet one-way delay: 114.338 ms
Loss rate: 2.72%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 09:27:54

End at: 2018-01-26 09:28:24

Below is generated by plot.py at 2018-01-26 15:06:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.68 Mbit/s

95th percentile per-packet one-way delay: 115.431 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 147.60 Mbit/s

95th percentile per-packet one-way delay: 114.788 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 140.93 Mbit/s

95th percentile per-packet one-way delay: 118.085 ms

Loss rate: 0.89%

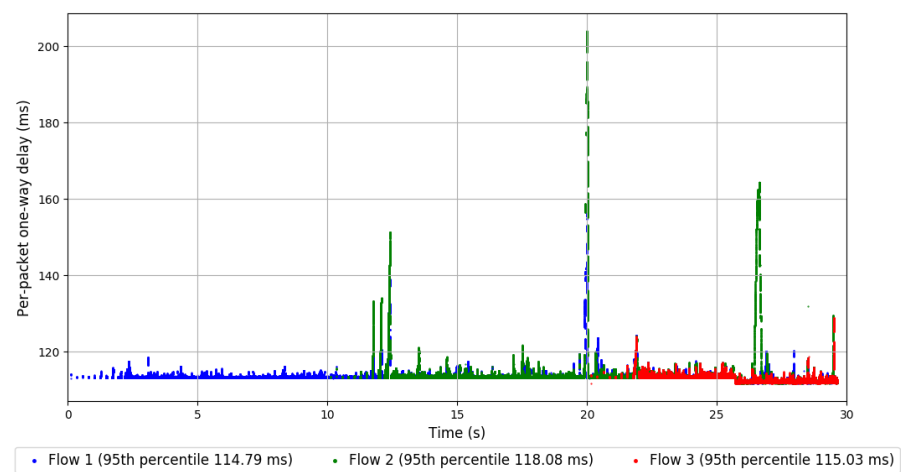
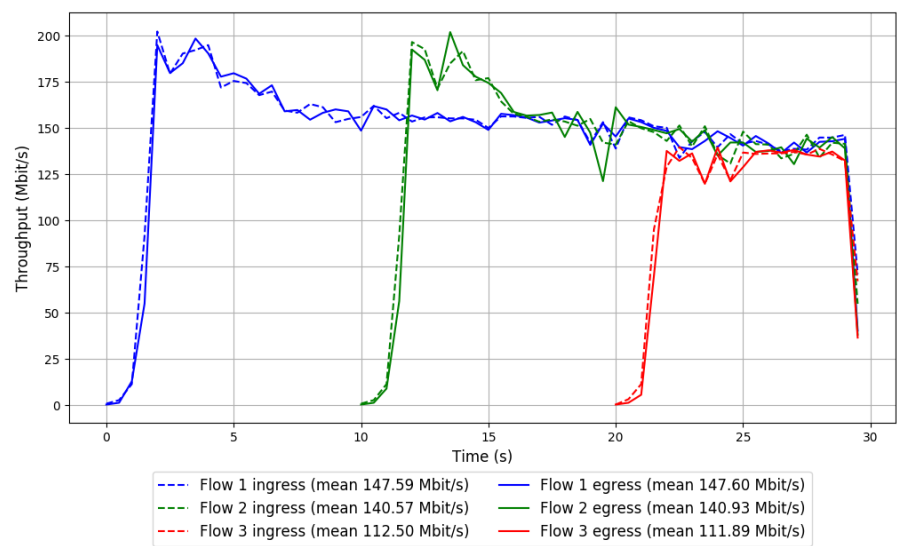
-- Flow 3:

Average throughput: 111.89 Mbit/s

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

Loss rate: 2.85%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 09:43:34

End at: 2018-01-26 09:44:04

Below is generated by plot.py at 2018-01-26 15:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.88 Mbit/s

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

Loss rate: 1.18%

-- Flow 1:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 114.107 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 144.78 Mbit/s

95th percentile per-packet one-way delay: 115.197 ms

Loss rate: 1.14%

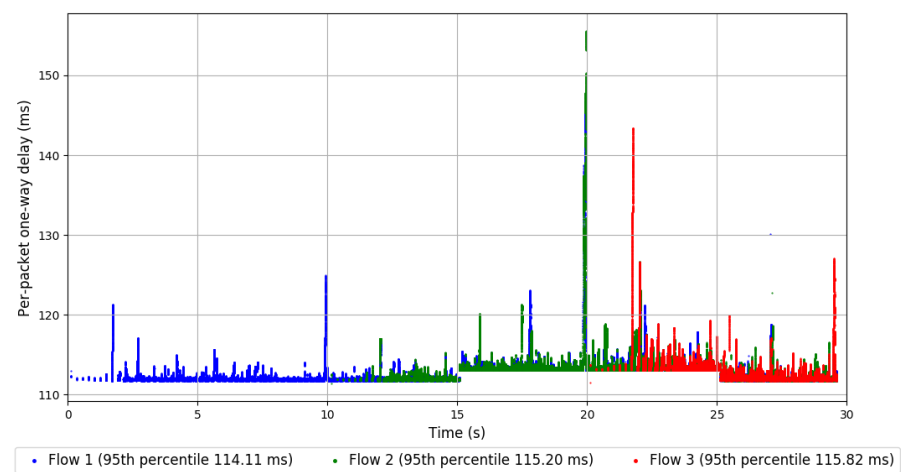
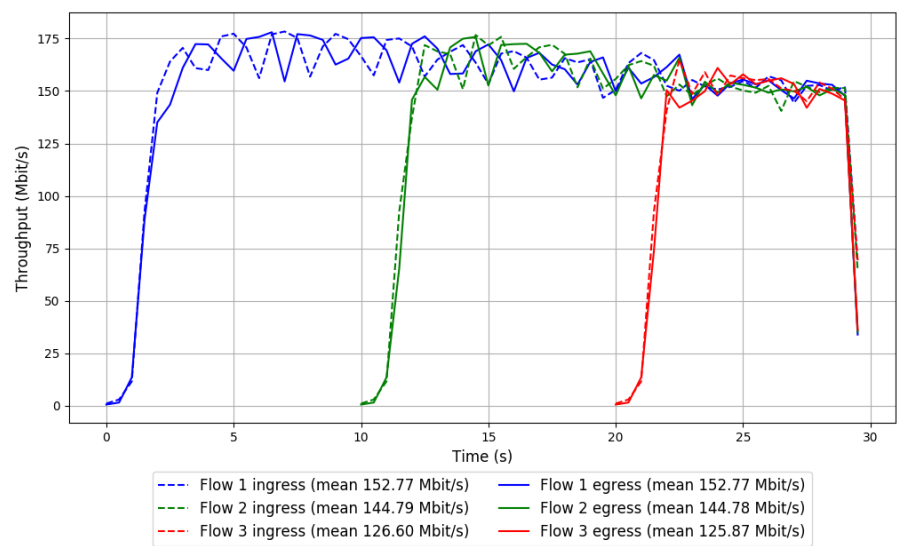
-- Flow 3:

Average throughput: 125.87 Mbit/s

95th percentile per-packet one-way delay: 115.817 ms

Loss rate: 2.84%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 09:59:42

End at: 2018-01-26 10:00:12

Below is generated by plot.py at 2018-01-26 15:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.12 Mbit/s

95th percentile per-packet one-way delay: 115.273 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 179.15 Mbit/s

95th percentile per-packet one-way delay: 114.983 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 139.57 Mbit/s

95th percentile per-packet one-way delay: 115.789 ms

Loss rate: 1.23%

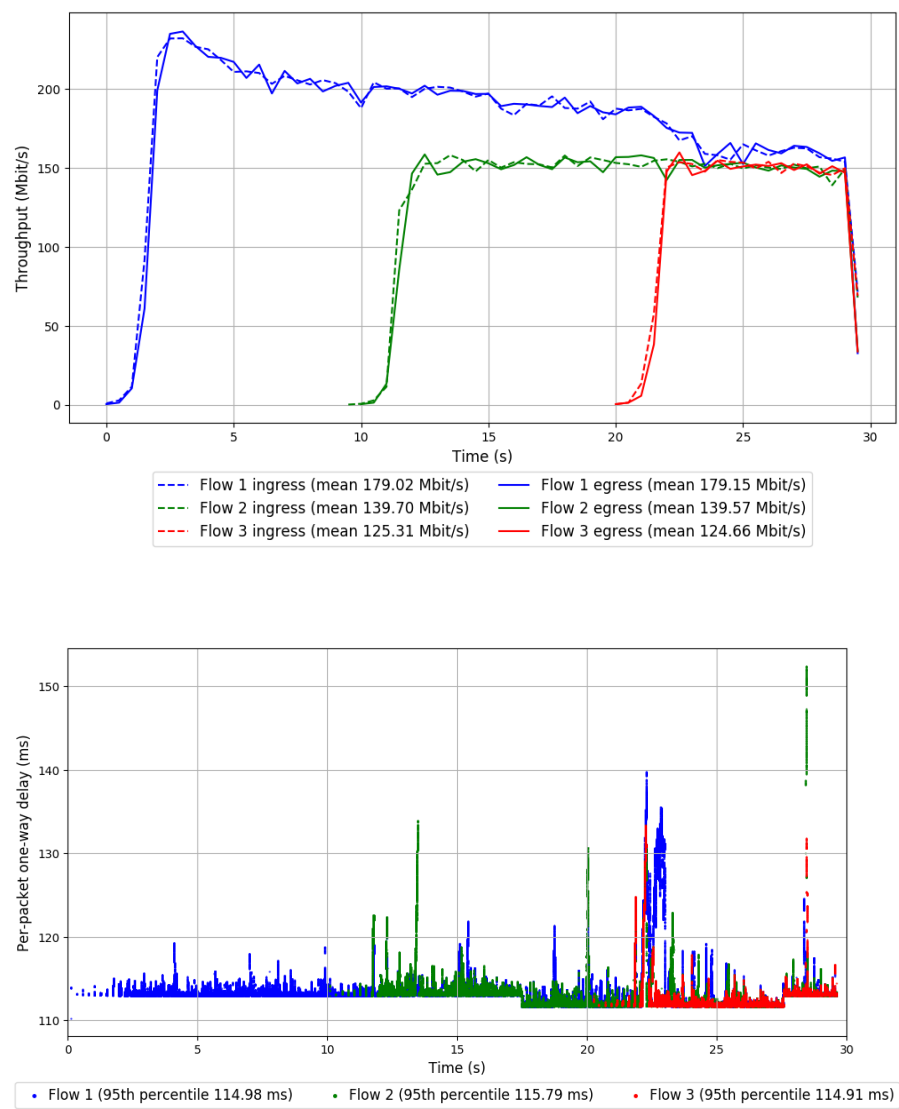
-- Flow 3:

Average throughput: 124.66 Mbit/s

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

Loss rate: 2.82%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 10:15:30

End at: 2018-01-26 10:16:00

Below is generated by plot.py at 2018-01-26 15:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.21 Mbit/s

95th percentile per-packet one-way delay: 113.355 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 143.96 Mbit/s

95th percentile per-packet one-way delay: 113.006 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 138.88 Mbit/s

95th percentile per-packet one-way delay: 114.574 ms

Loss rate: 1.18%

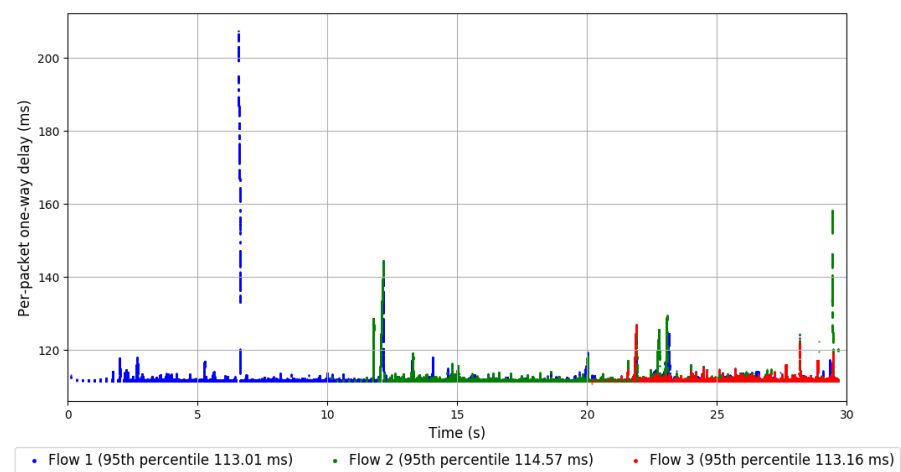
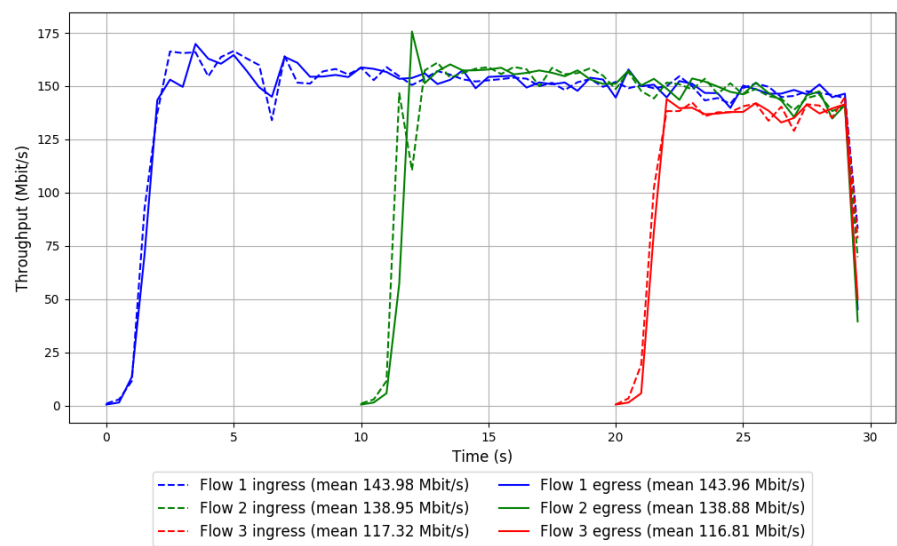
-- Flow 3:

Average throughput: 116.81 Mbit/s

95th percentile per-packet one-way delay: 113.157 ms

Loss rate: 2.69%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 10:31:26

End at: 2018-01-26 10:31:56

Below is generated by plot.py at 2018-01-26 15:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.14 Mbit/s

95th percentile per-packet one-way delay: 114.731 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 140.57 Mbit/s

95th percentile per-packet one-way delay: 114.368 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 129.59 Mbit/s

95th percentile per-packet one-way delay: 114.426 ms

Loss rate: 1.15%

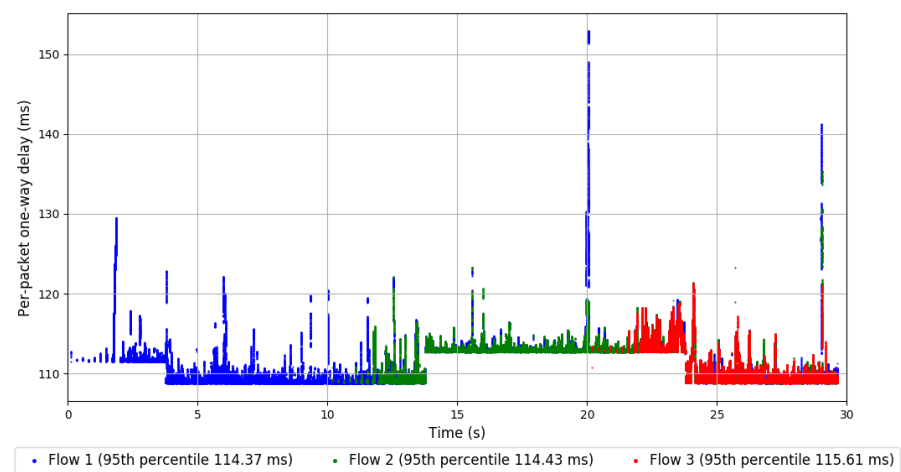
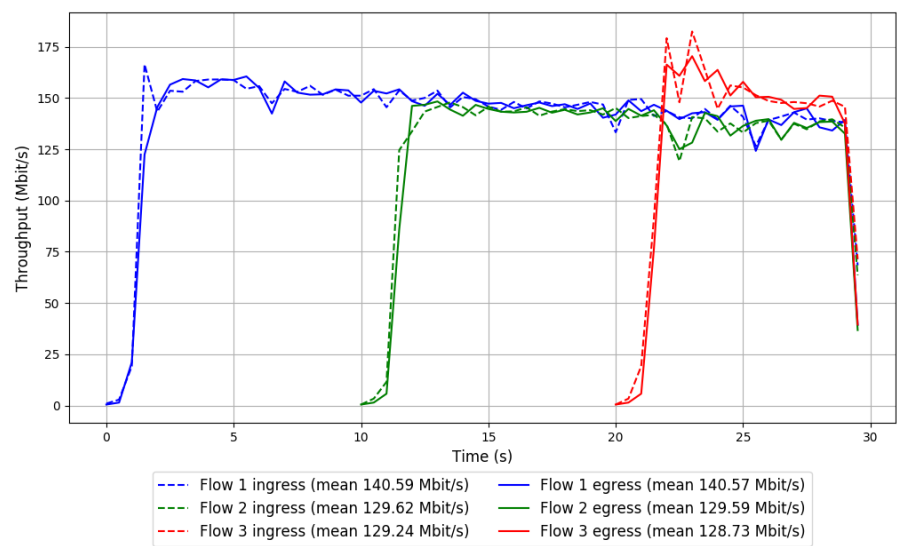
-- Flow 3:

Average throughput: 128.73 Mbit/s

95th percentile per-packet one-way delay: 115.608 ms

Loss rate: 2.69%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 10:47:24

End at: 2018-01-26 10:47:54

Below is generated by plot.py at 2018-01-26 15:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.06 Mbit/s

95th percentile per-packet one-way delay: 112.511 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 148.26 Mbit/s

95th percentile per-packet one-way delay: 112.234 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 139.49 Mbit/s

95th percentile per-packet one-way delay: 112.535 ms

Loss rate: 1.21%

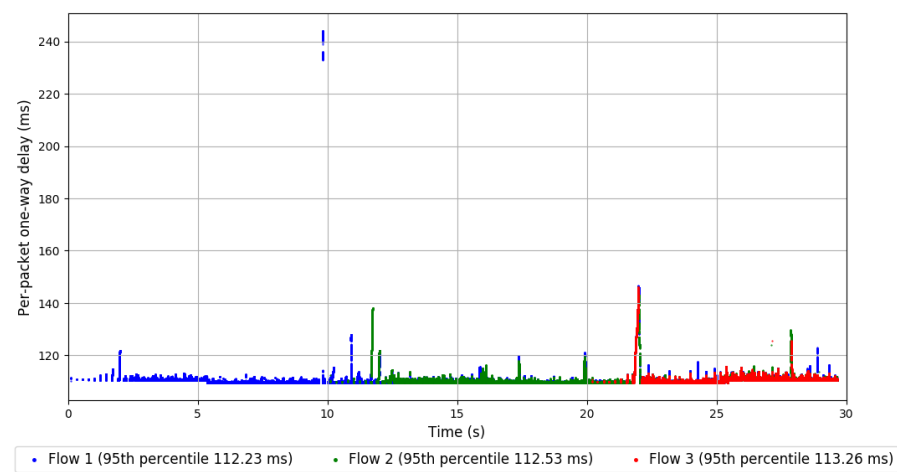
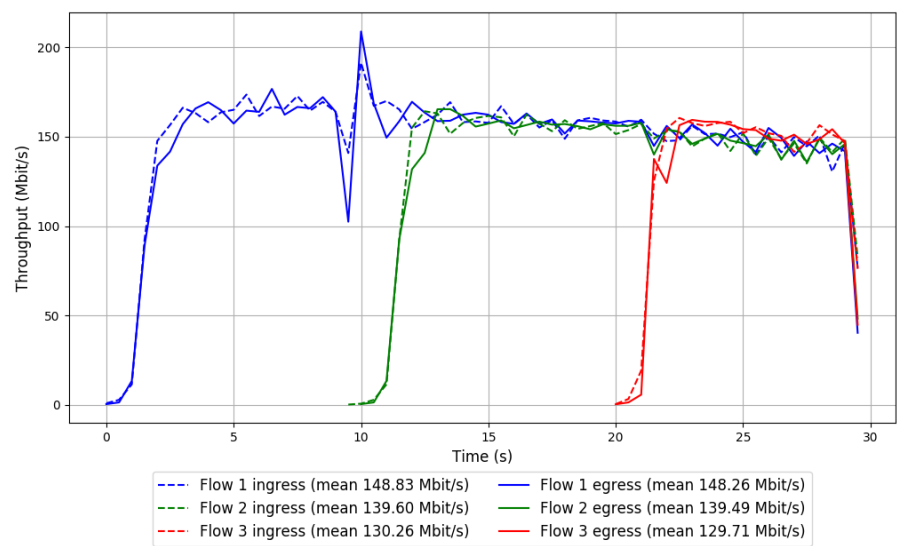
-- Flow 3:

Average throughput: 129.71 Mbit/s

95th percentile per-packet one-way delay: 113.261 ms

Loss rate: 2.70%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 11:02:59

End at: 2018-01-26 11:03:29

Below is generated by plot.py at 2018-01-26 15:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.78 Mbit/s

95th percentile per-packet one-way delay: 111.717 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 145.08 Mbit/s

95th percentile per-packet one-way delay: 111.412 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 138.63 Mbit/s

95th percentile per-packet one-way delay: 112.384 ms

Loss rate: 1.14%

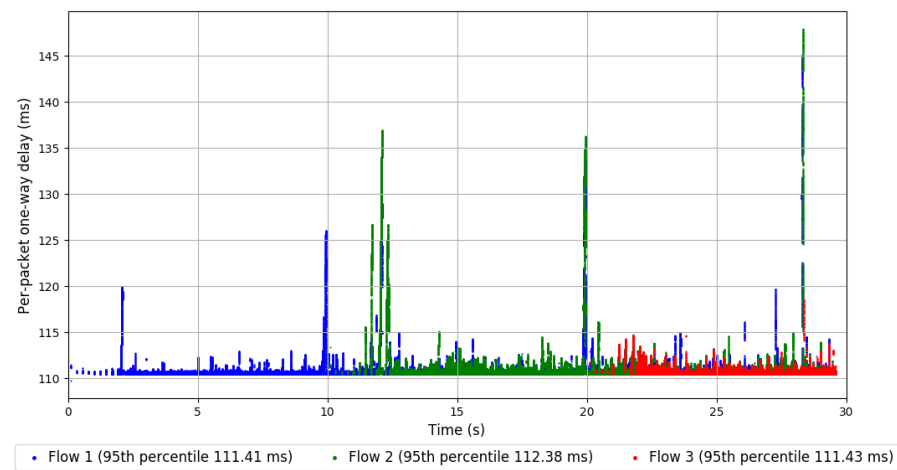
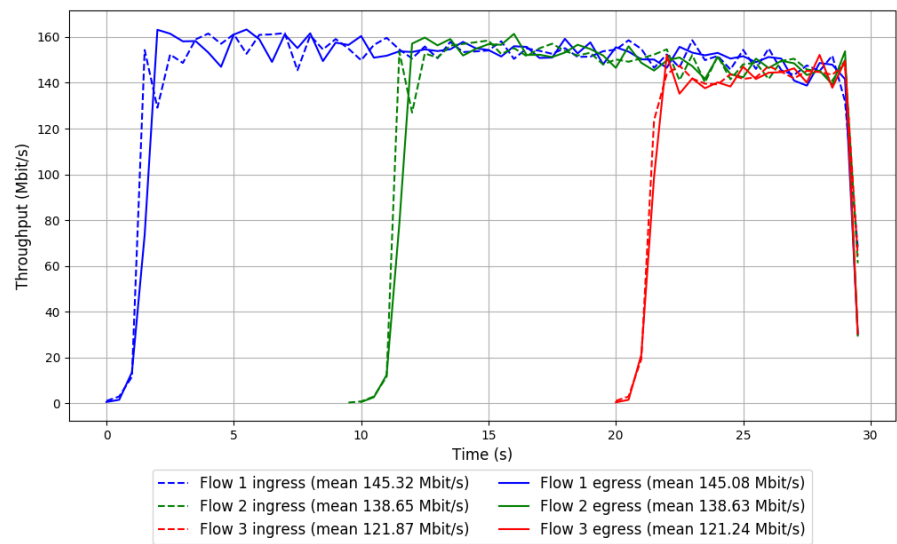
-- Flow 3:

Average throughput: 121.24 Mbit/s

95th percentile per-packet one-way delay: 111.426 ms

Loss rate: 2.77%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 11:18:44

End at: 2018-01-26 11:19:14

Below is generated by plot.py at 2018-01-26 15:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.18 Mbit/s

95th percentile per-packet one-way delay: 112.597 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 149.54 Mbit/s

95th percentile per-packet one-way delay: 112.019 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 160.29 Mbit/s

95th percentile per-packet one-way delay: 113.152 ms

Loss rate: 1.08%

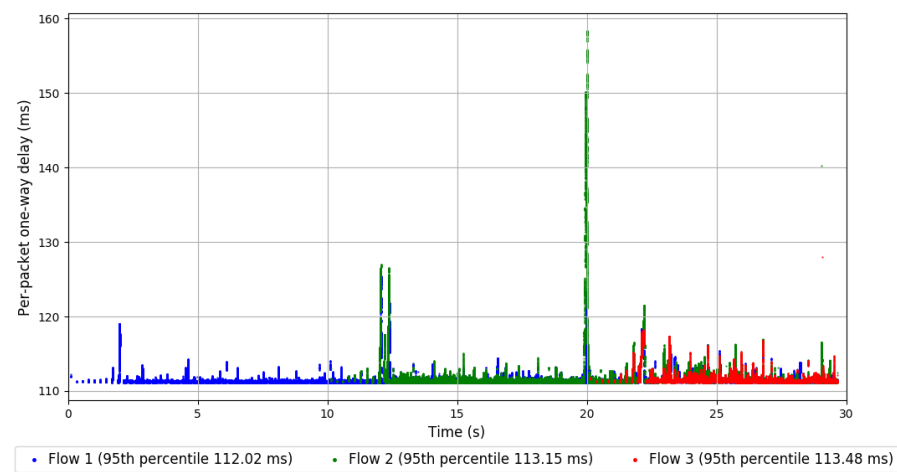
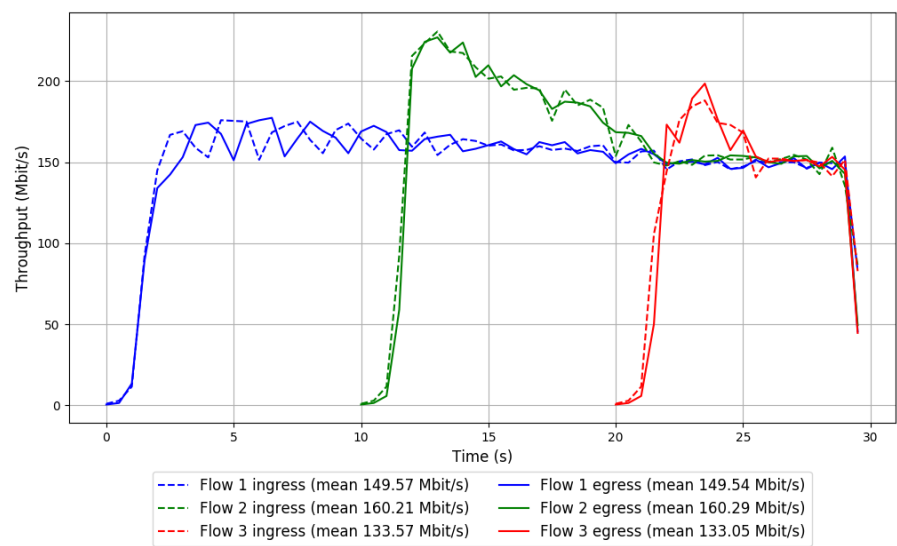
-- Flow 3:

Average throughput: 133.05 Mbit/s

95th percentile per-packet one-way delay: 113.485 ms

Loss rate: 2.68%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 11:34:26

End at: 2018-01-26 11:34:56

Below is generated by plot.py at 2018-01-26 15:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.16 Mbit/s

95th percentile per-packet one-way delay: 113.055 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 140.89 Mbit/s

95th percentile per-packet one-way delay: 113.202 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 112.953 ms

Loss rate: 1.61%

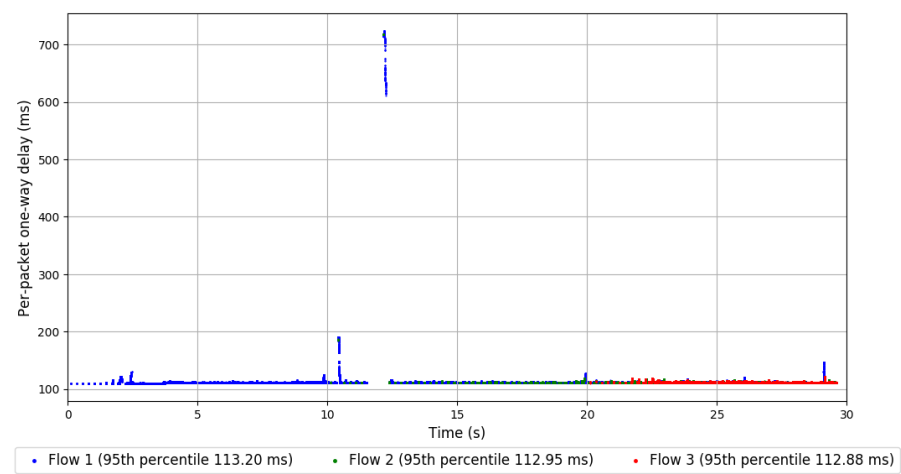
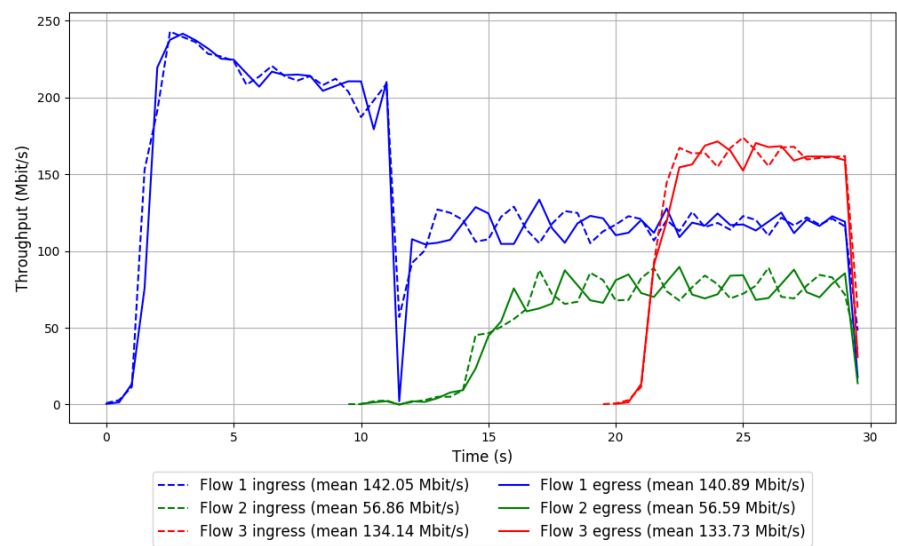
-- Flow 3:

Average throughput: 133.73 Mbit/s

95th percentile per-packet one-way delay: 112.884 ms

Loss rate: 2.69%

Run 10: Report of Indigo-1-32 — Data Link

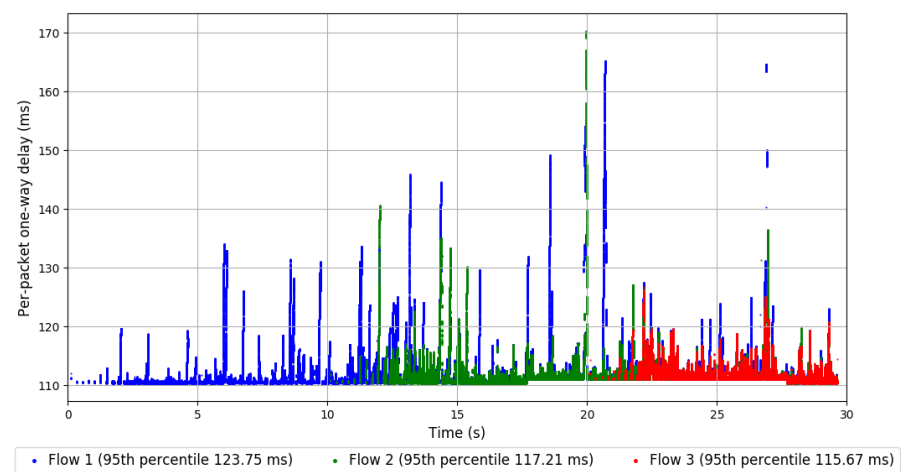
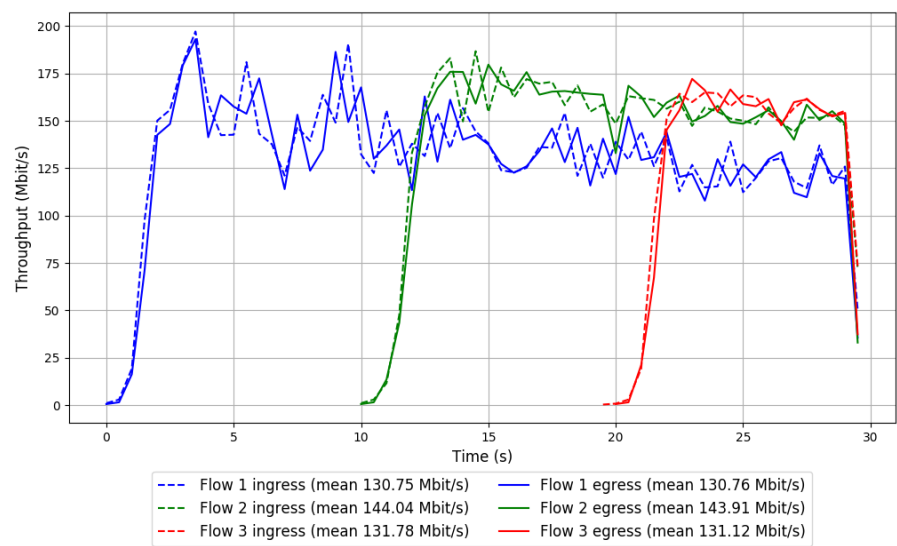


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 09:05:02
End at: 2018-01-26 09:05:32

# Below is generated by plot.py at 2018-01-26 15:11:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.12 Mbit/s
95th percentile per-packet one-way delay: 119.661 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 130.76 Mbit/s
95th percentile per-packet one-way delay: 123.755 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 143.91 Mbit/s
95th percentile per-packet one-way delay: 117.210 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 131.12 Mbit/s
95th percentile per-packet one-way delay: 115.674 ms
Loss rate: 2.74%
```


Run 1: Report of Indigo-1-128 — Data Link

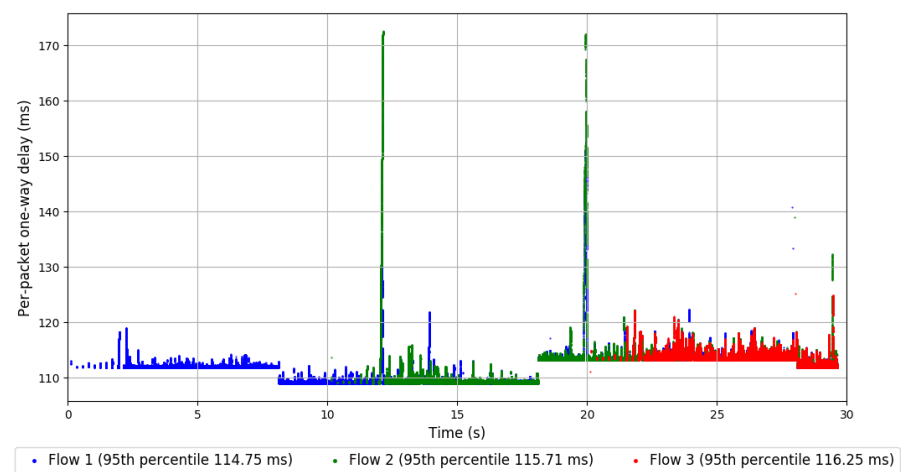
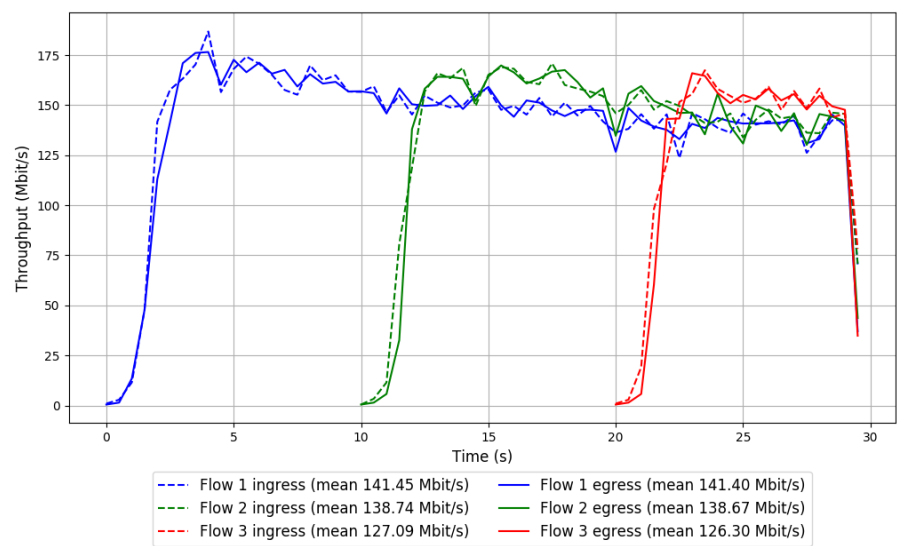


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 09:20:51
End at: 2018-01-26 09:21:21

# Below is generated by plot.py at 2018-01-26 15:12:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.57 Mbit/s
95th percentile per-packet one-way delay: 115.421 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 141.40 Mbit/s
95th percentile per-packet one-way delay: 114.754 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 138.67 Mbit/s
95th percentile per-packet one-way delay: 115.711 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 126.30 Mbit/s
95th percentile per-packet one-way delay: 116.248 ms
Loss rate: 2.90%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 09:36:27

End at: 2018-01-26 09:36:57

Below is generated by plot.py at 2018-01-26 15:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.34 Mbit/s

95th percentile per-packet one-way delay: 120.424 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 161.60 Mbit/s

95th percentile per-packet one-way delay: 117.196 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 132.11 Mbit/s

95th percentile per-packet one-way delay: 133.671 ms

Loss rate: 1.09%

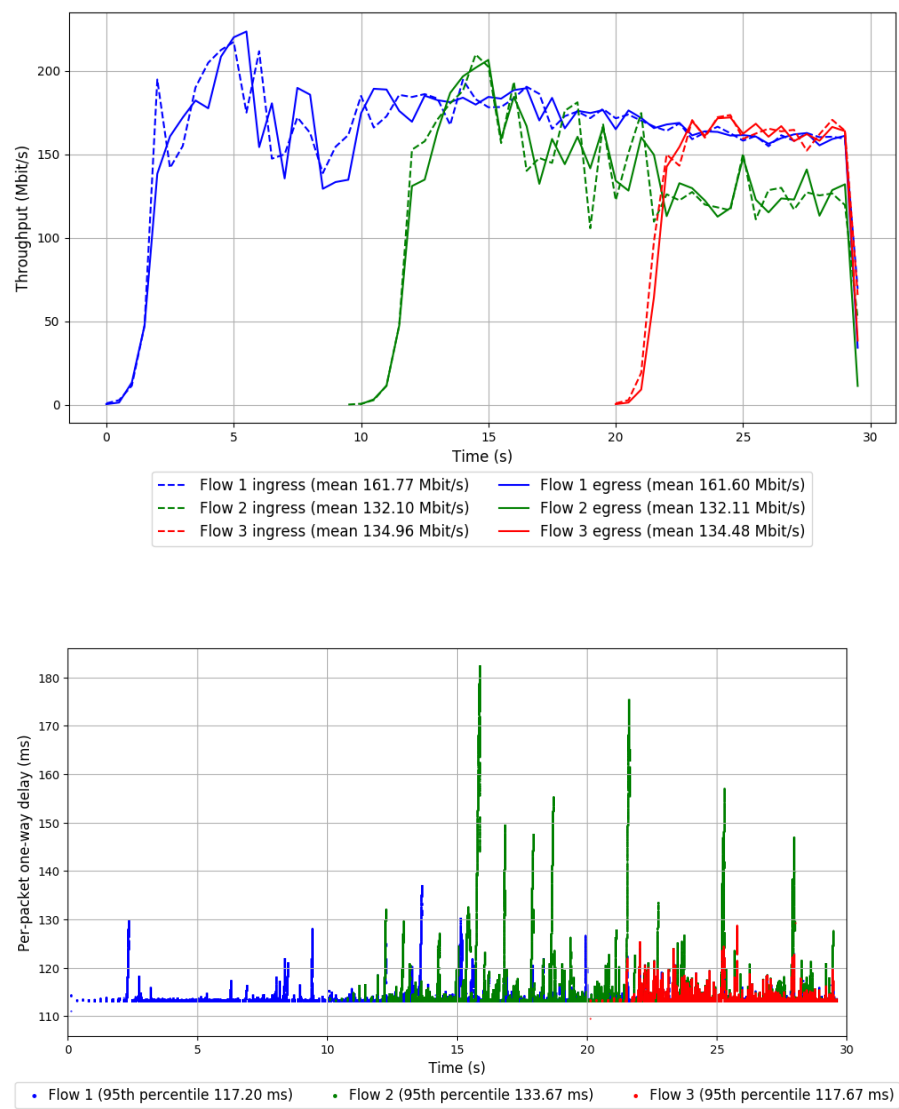
-- Flow 3:

Average throughput: 134.48 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 2.62%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 09:52:31

End at: 2018-01-26 09:53:01

Below is generated by plot.py at 2018-01-26 15:13:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.59 Mbit/s

95th percentile per-packet one-way delay: 124.533 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 153.83 Mbit/s

95th percentile per-packet one-way delay: 118.953 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 145.55 Mbit/s

95th percentile per-packet one-way delay: 129.515 ms

Loss rate: 0.85%

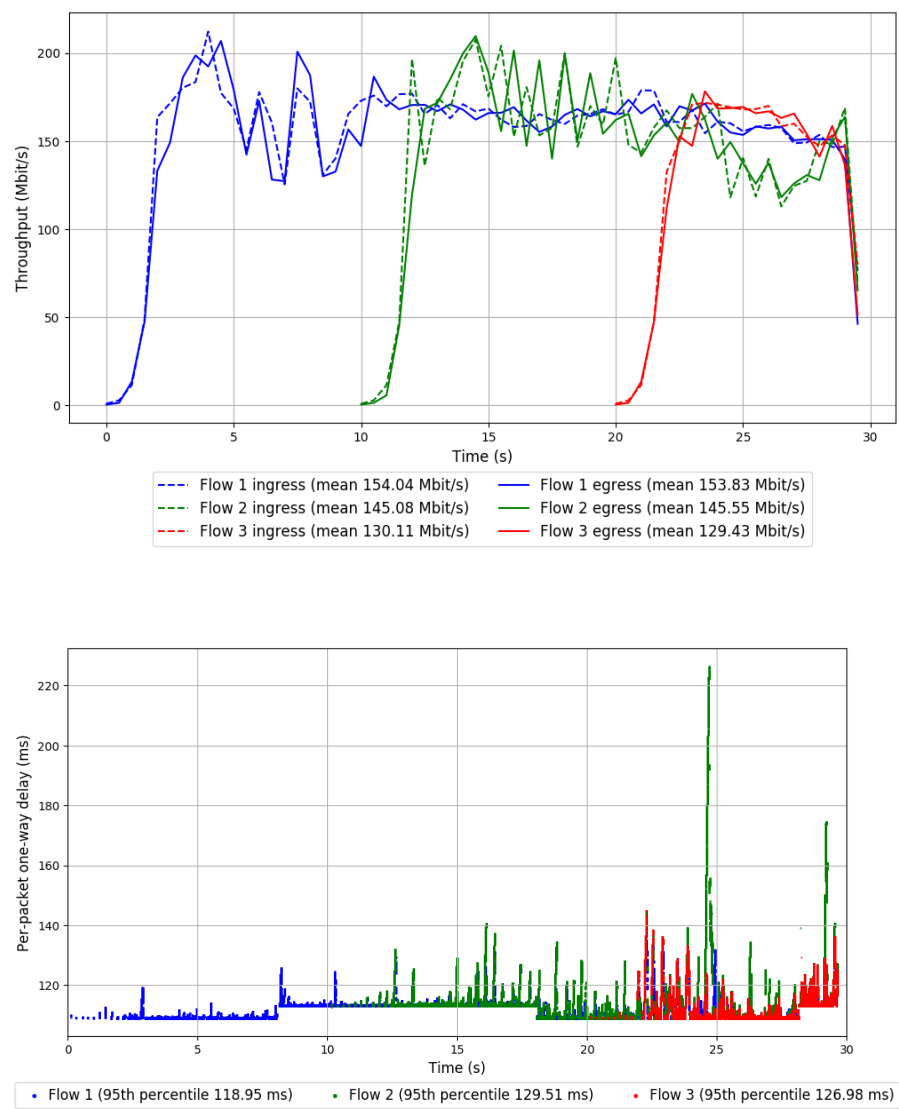
-- Flow 3:

Average throughput: 129.43 Mbit/s

95th percentile per-packet one-way delay: 126.980 ms

Loss rate: 2.77%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 10:08:32

End at: 2018-01-26 10:09:02

Below is generated by plot.py at 2018-01-26 15:14:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.94 Mbit/s

95th percentile per-packet one-way delay: 116.661 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 135.41 Mbit/s

95th percentile per-packet one-way delay: 116.835 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 150.05 Mbit/s

95th percentile per-packet one-way delay: 116.482 ms

Loss rate: 1.12%

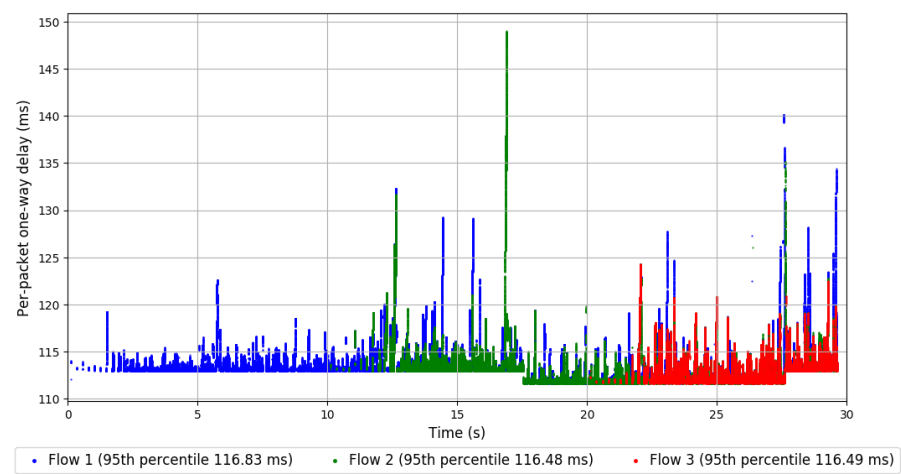
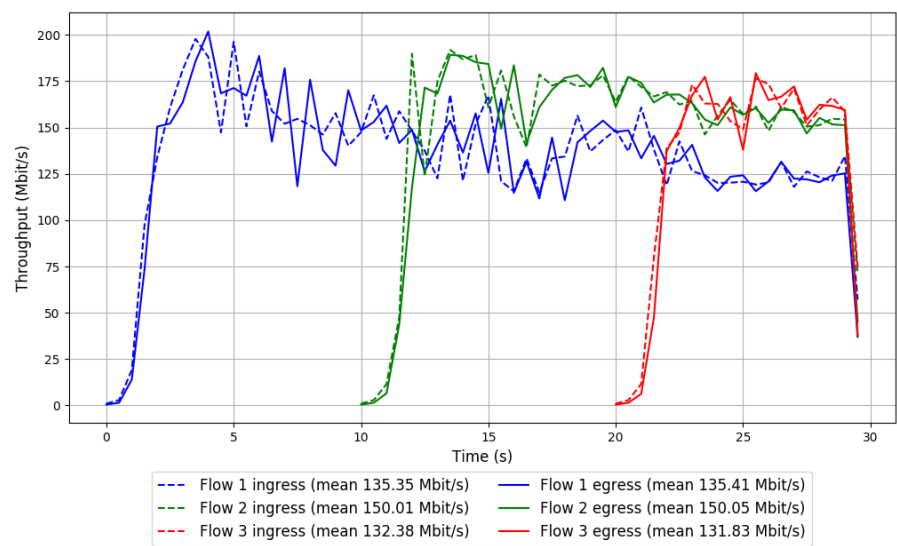
-- Flow 3:

Average throughput: 131.83 Mbit/s

95th percentile per-packet one-way delay: 116.489 ms

Loss rate: 2.73%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 10:24:20

End at: 2018-01-26 10:24:50

Below is generated by plot.py at 2018-01-26 15:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.58 Mbit/s

95th percentile per-packet one-way delay: 113.823 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 148.97 Mbit/s

95th percentile per-packet one-way delay: 113.438 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 145.74 Mbit/s

95th percentile per-packet one-way delay: 114.781 ms

Loss rate: 1.19%

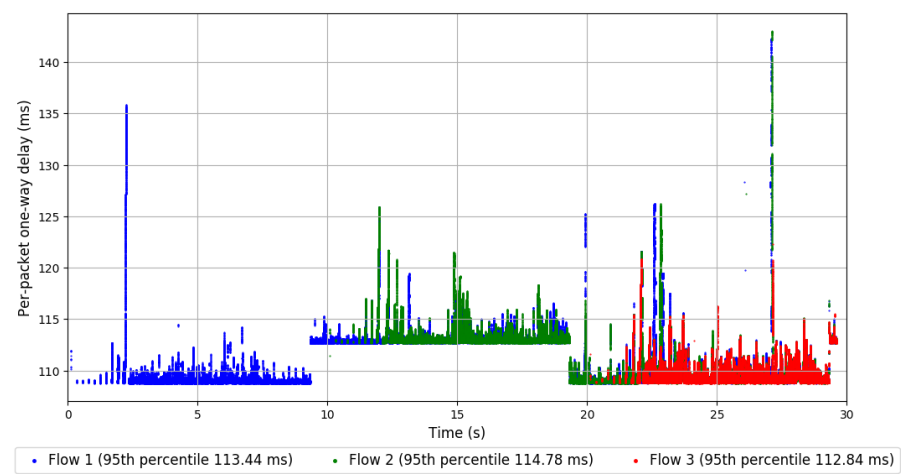
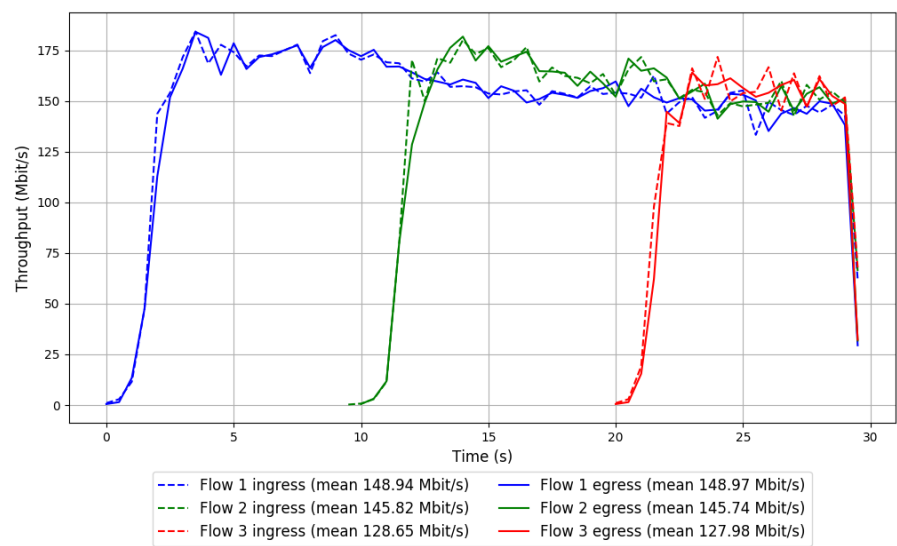
-- Flow 3:

Average throughput: 127.98 Mbit/s

95th percentile per-packet one-way delay: 112.842 ms

Loss rate: 2.80%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 10:40:22

End at: 2018-01-26 10:40:52

Below is generated by plot.py at 2018-01-26 15:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.23 Mbit/s

95th percentile per-packet one-way delay: 120.469 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 155.08 Mbit/s

95th percentile per-packet one-way delay: 119.211 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 137.92 Mbit/s

95th percentile per-packet one-way delay: 121.806 ms

Loss rate: 0.89%

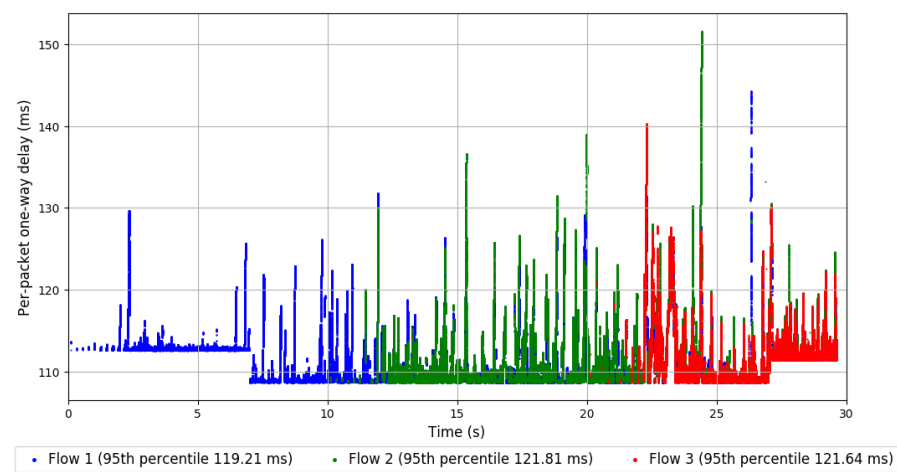
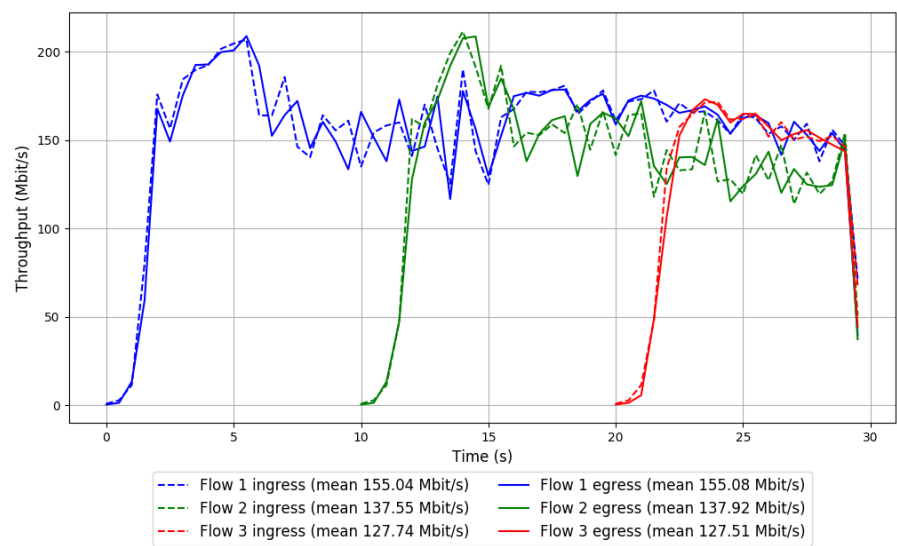
-- Flow 3:

Average throughput: 127.51 Mbit/s

95th percentile per-packet one-way delay: 121.645 ms

Loss rate: 2.50%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 10:56:03

End at: 2018-01-26 10:56:33

Below is generated by plot.py at 2018-01-26 15:15:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.85 Mbit/s

95th percentile per-packet one-way delay: 113.667 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 152.20 Mbit/s

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

Loss rate: 0.70%

-- Flow 2:

Average throughput: 141.95 Mbit/s

95th percentile per-packet one-way delay: 114.046 ms

Loss rate: 1.17%

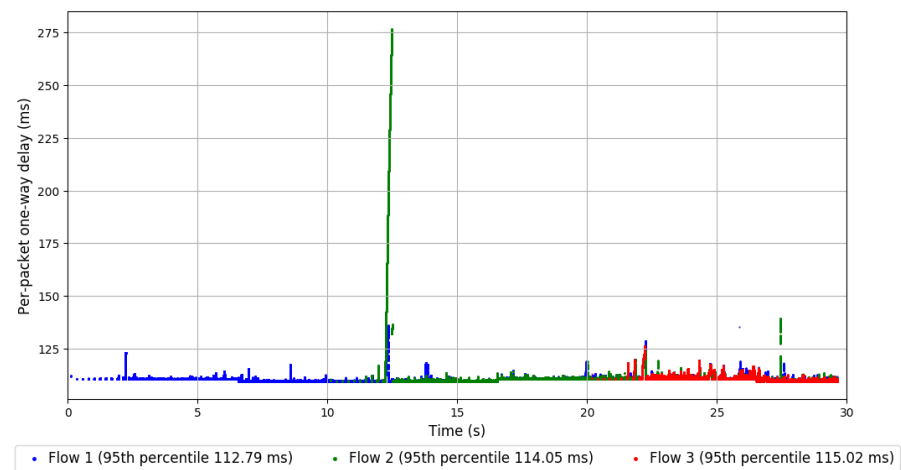
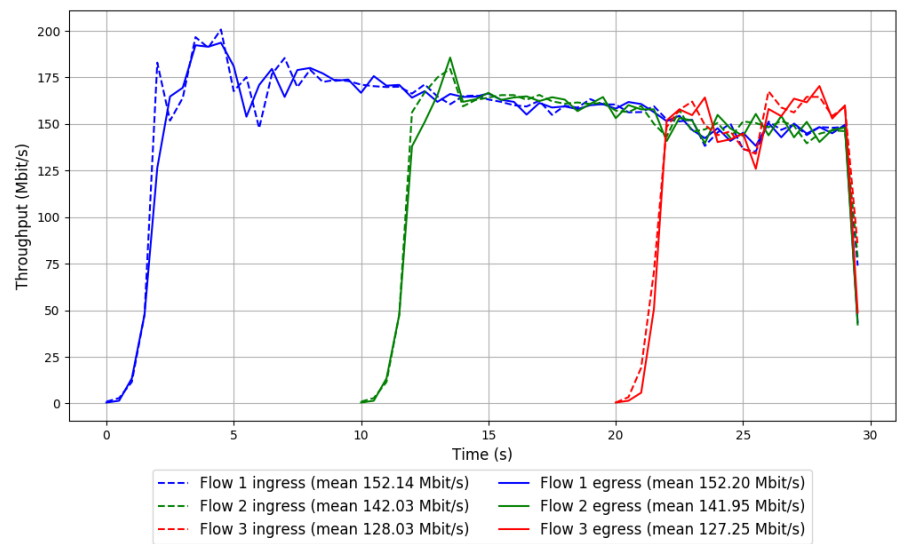
-- Flow 3:

Average throughput: 127.25 Mbit/s

95th percentile per-packet one-way delay: 115.018 ms

Loss rate: 2.90%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 11:11:35

End at: 2018-01-26 11:12:05

Below is generated by plot.py at 2018-01-26 15:15:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.33 Mbit/s

95th percentile per-packet one-way delay: 125.350 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 147.19 Mbit/s

95th percentile per-packet one-way delay: 126.168 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 150.42 Mbit/s

95th percentile per-packet one-way delay: 125.319 ms

Loss rate: 1.20%

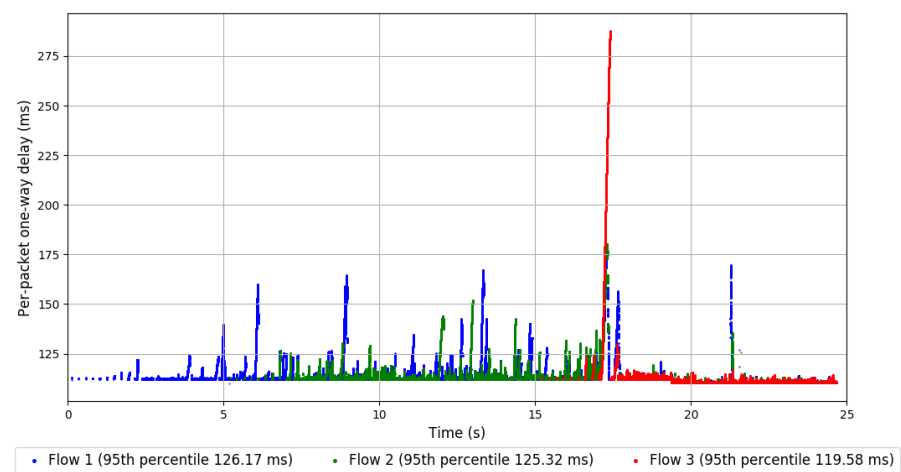
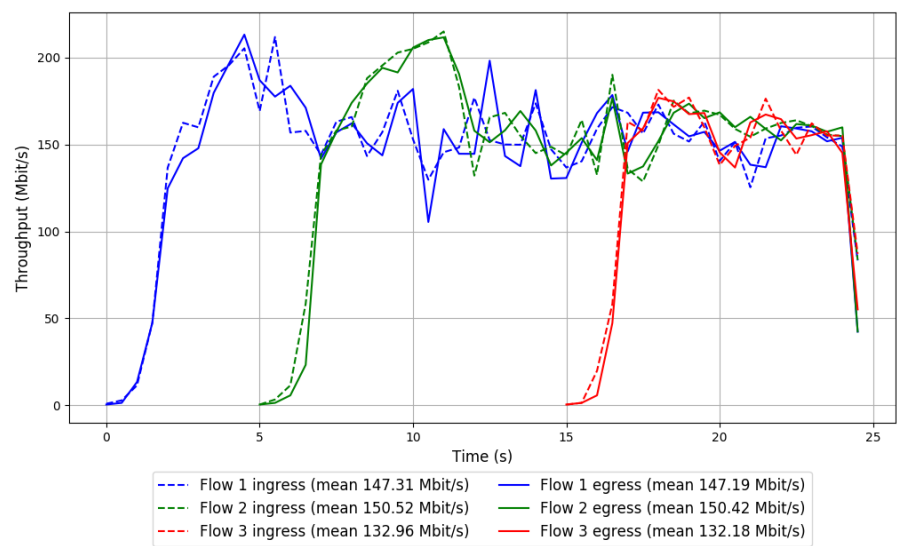
-- Flow 3:

Average throughput: 132.18 Mbit/s

95th percentile per-packet one-way delay: 119.584 ms

Loss rate: 2.91%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 11:27:27

End at: 2018-01-26 11:27:57

Below is generated by plot.py at 2018-01-26 15:15:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.08 Mbit/s

95th percentile per-packet one-way delay: 115.907 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 145.32 Mbit/s

95th percentile per-packet one-way delay: 115.233 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 129.65 Mbit/s

95th percentile per-packet one-way delay: 117.221 ms

Loss rate: 1.26%

-- Flow 3:

Average throughput: 134.33 Mbit/s

95th percentile per-packet one-way delay: 115.681 ms

Loss rate: 2.83%

Run 10: Report of Indigo-1-128 — Data Link

