

Pantheon Report

Generated at 2018-01-26 16:09:29 (UTC).

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

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.

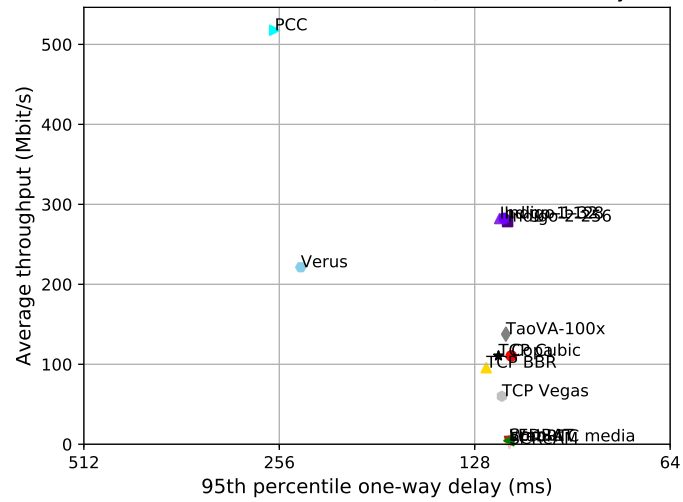
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

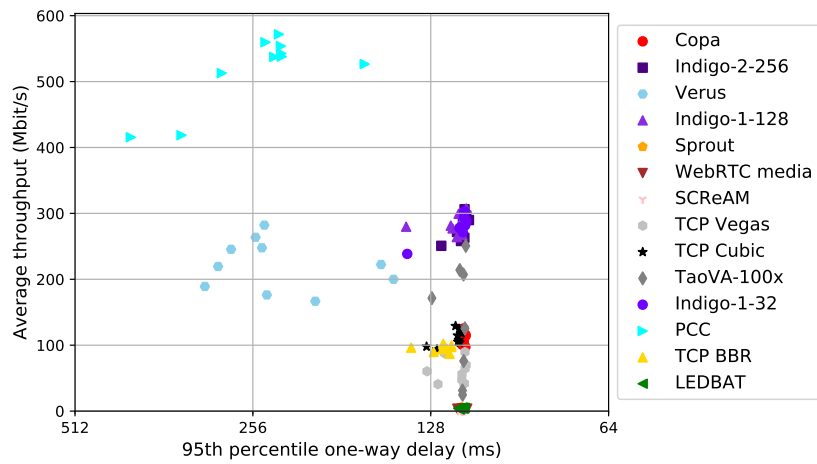
Git summary:

```
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	9	47.99	47.07	50.16	122.34	123.21	123.97	0.14	0.16	0.06
TCP Cubic	9	59.98	55.64	41.27	117.06	117.79	119.85	0.03	0.00	0.03
LEDBAT	10	1.86	2.92	1.66	113.29	113.17	112.73	0.28	0.28	0.20
PCC	10	432.52	111.82	32.87	264.99	226.05	207.30	4.77	1.77	1.54
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.20	0.21	0.20	112.62	112.33	112.07	0.00	0.00	0.00
WebRTC media	10	2.02	1.21	0.37	112.40	112.64	112.55	0.01	0.01	0.02
Sprout	10	2.54	2.32	1.85	113.35	112.96	112.84	0.07	0.06	0.13
TaoVA-100x	8	101.67	40.85	34.35	114.24	114.69	113.08	0.00	0.02	0.00
TCP Vegas	10	28.10	29.56	37.04	113.81	115.34	118.53	0.01	0.01	0.02
Verus	10	125.32	111.99	68.66	215.60	240.26	218.01	1.09	1.78	1.88
Copa	9	59.75	60.49	41.88	112.31	112.43	112.16	0.00	0.00	0.01
Indigo-2-256	8	155.08	127.52	122.22	114.32	116.25	113.33	0.00	0.07	0.00
Indigo-1-32	10	147.42	143.60	125.64	115.34	114.71	115.72	0.01	0.00	0.00
Indigo-1-128	10	146.88	141.72	130.35	116.44	118.74	114.56	0.02	0.00	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 11:52:14

End at: 2018-01-26 11:52:44

Below is generated by plot.py at 2018-01-26 15:17:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 126.573 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 126.541 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 43.94 Mbit/s

95th percentile per-packet one-way delay: 127.555 ms

Loss rate: 0.04%

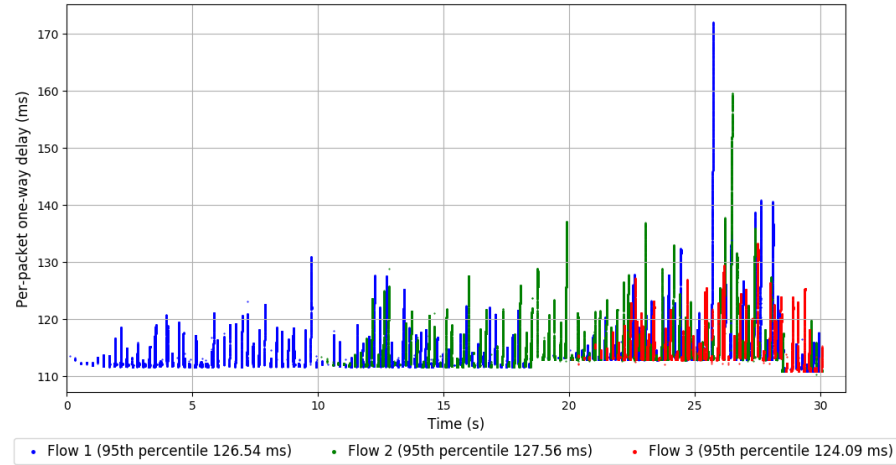
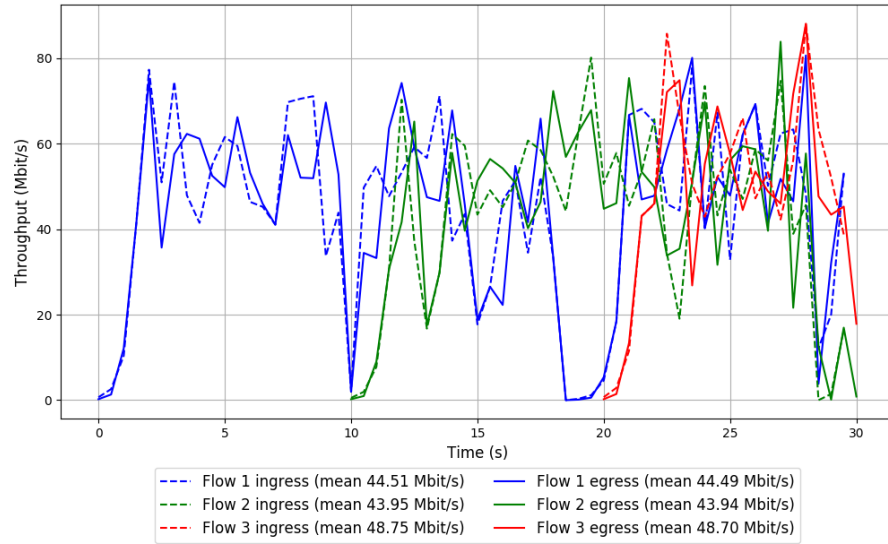
-- Flow 3:

Average throughput: 48.70 Mbit/s

95th percentile per-packet one-way delay: 124.095 ms

Loss rate: 0.07%

Run 1: Report of TCP BBR — Data Link

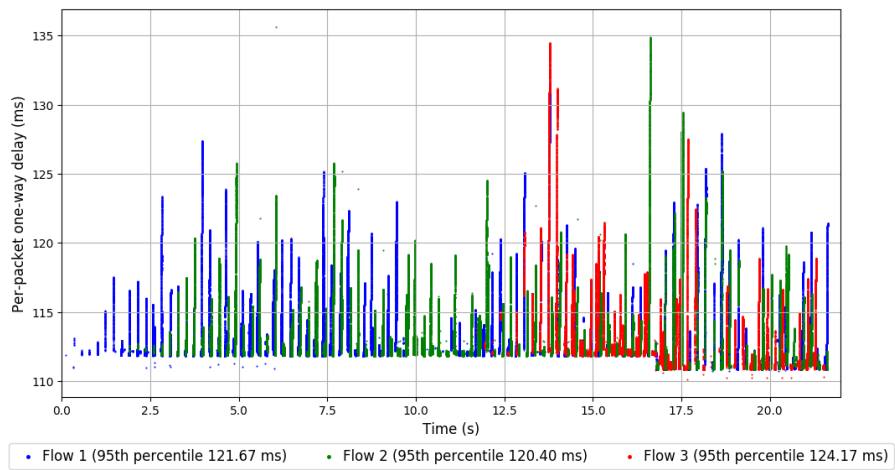
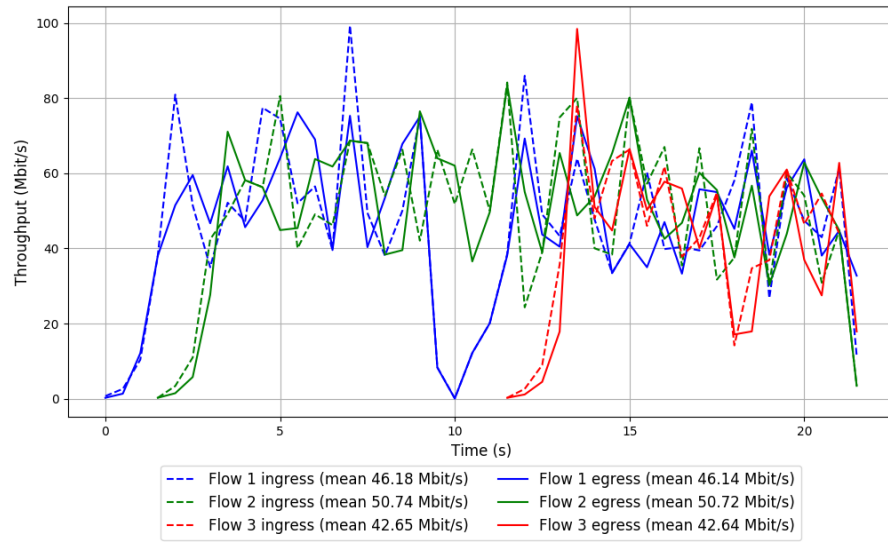


Run 2: Statistics of TCP BBR

Start at: 2018-01-26 12:07:57

End at: 2018-01-26 12:08:27

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 12:23:22

End at: 2018-01-26 12:23:52

Below is generated by plot.py at 2018-01-26 15:17:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 138.128 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 134.326 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 142.862 ms

Loss rate: 0.71%

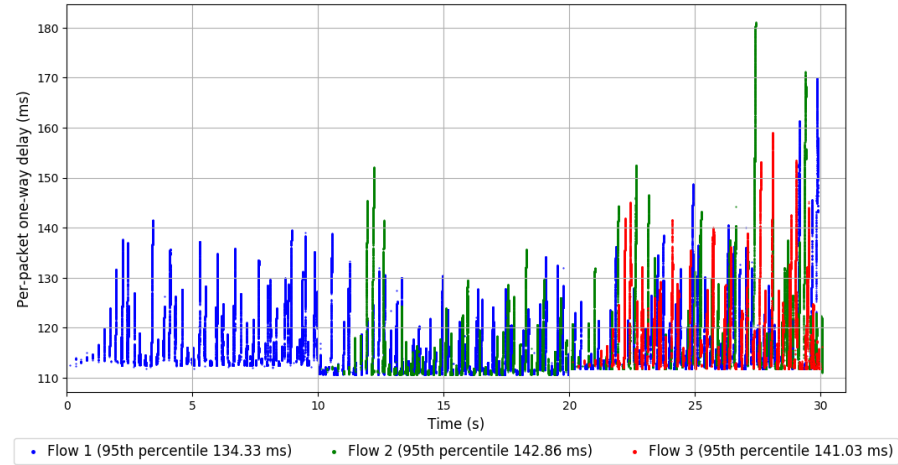
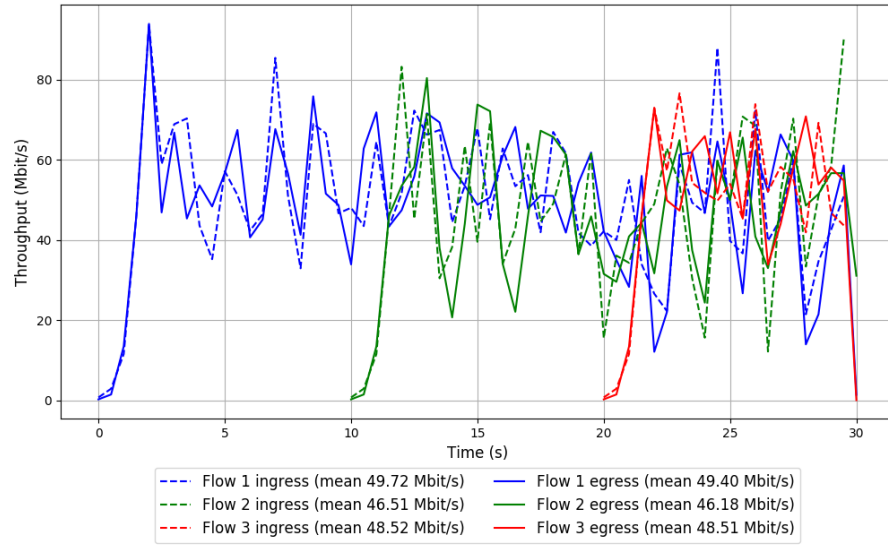
-- Flow 3:

Average throughput: 48.51 Mbit/s

95th percentile per-packet one-way delay: 141.030 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 12:38:50

End at: 2018-01-26 12:39:20

Below is generated by plot.py at 2018-01-26 15:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 118.179 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.34 Mbit/s

95th percentile per-packet one-way delay: 118.951 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 117.662 ms

Loss rate: 0.00%

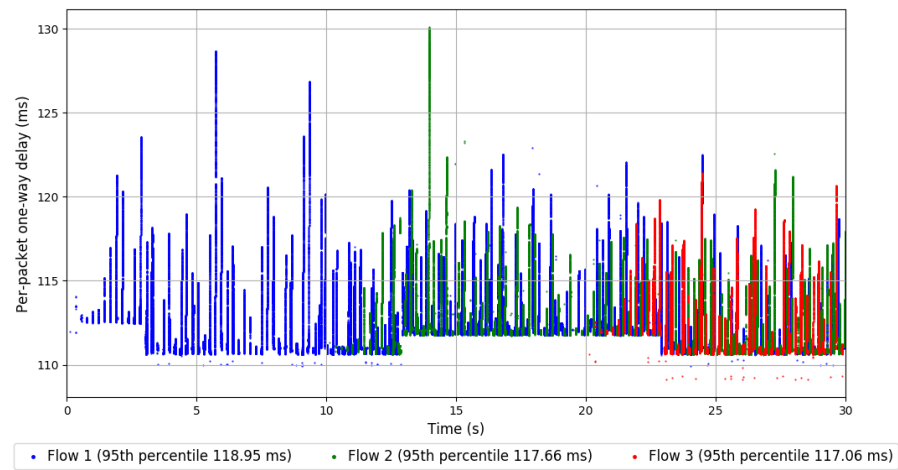
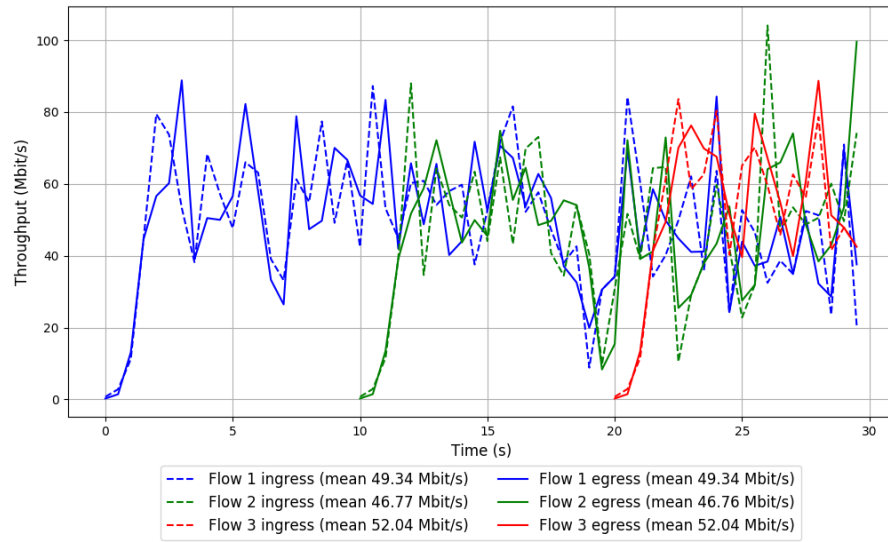
-- Flow 3:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 117.062 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 12:54:43

End at: 2018-01-26 12:55:13

Below is generated by plot.py at 2018-01-26 15:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 120.231 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 119.927 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 119.370 ms

Loss rate: 0.00%

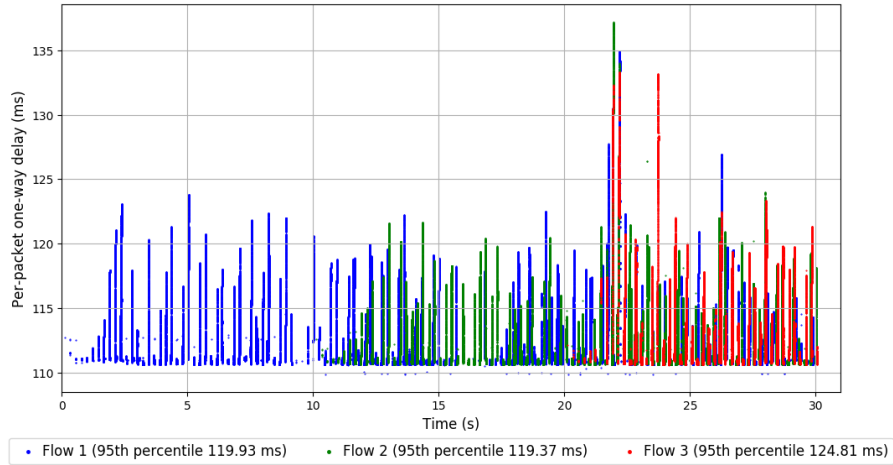
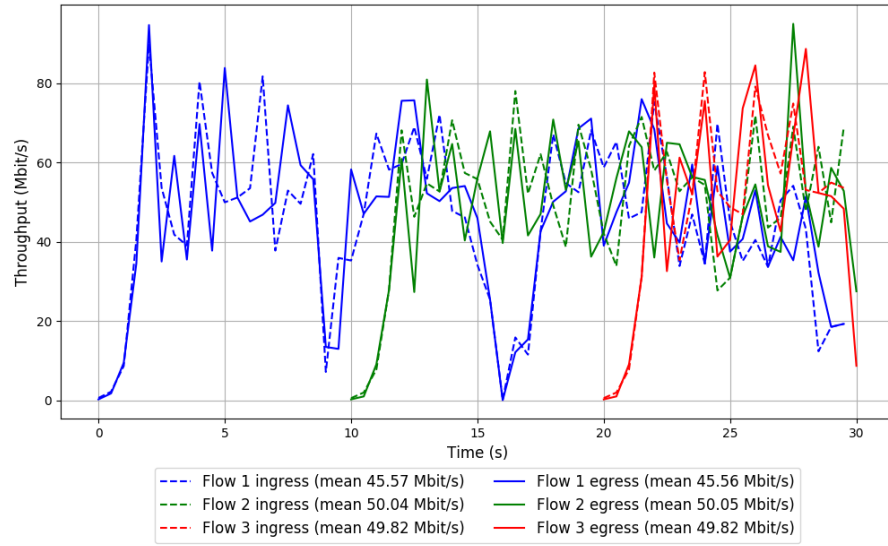
-- Flow 3:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 124.813 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 13:10:33

End at: 2018-01-26 13:11:03

Below is generated by plot.py at 2018-01-26 15:17:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.04 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 120.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 123.492 ms

Loss rate: 0.00%

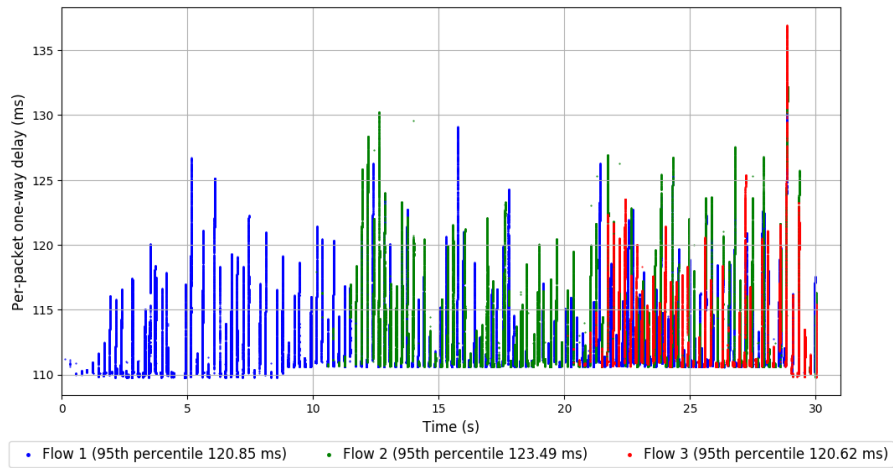
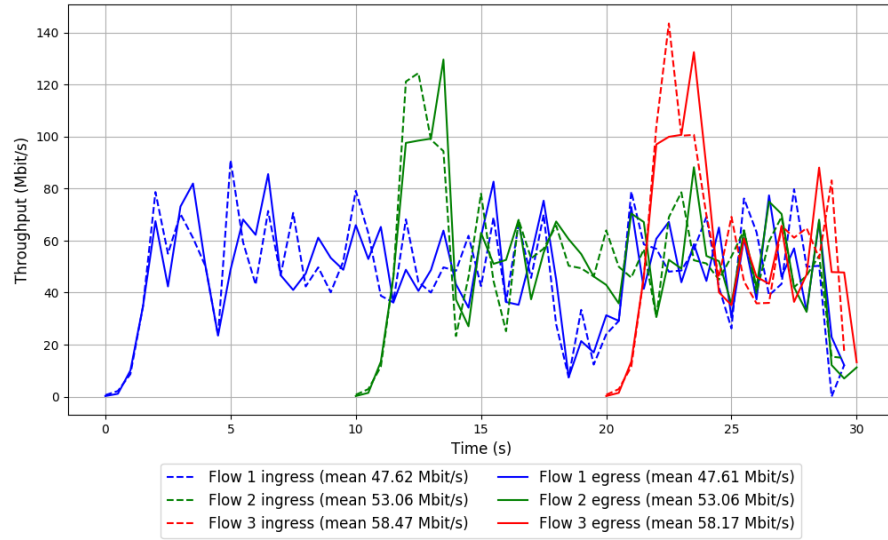
-- Flow 3:

Average throughput: 58.17 Mbit/s

95th percentile per-packet one-way delay: 120.617 ms

Loss rate: 0.50%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-26 13:25:51

End at: 2018-01-26 13:26:21

Below is generated by plot.py at 2018-01-26 15:17:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 118.927 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 119.693 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 117.453 ms

Loss rate: 0.00%

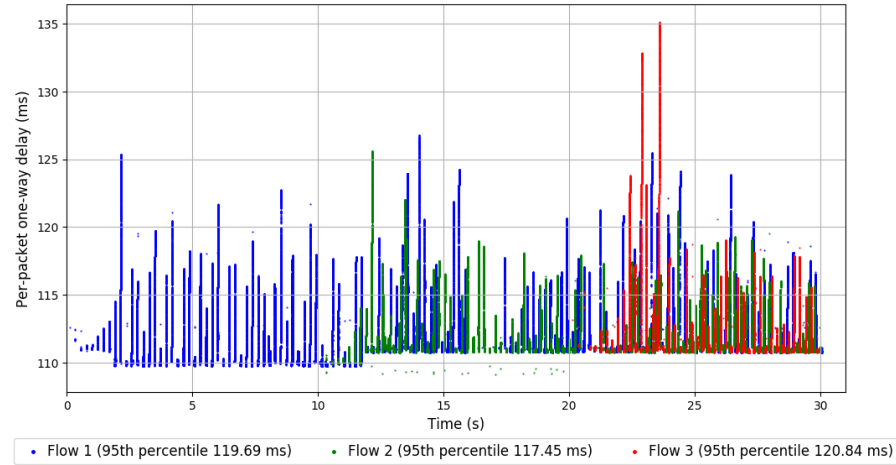
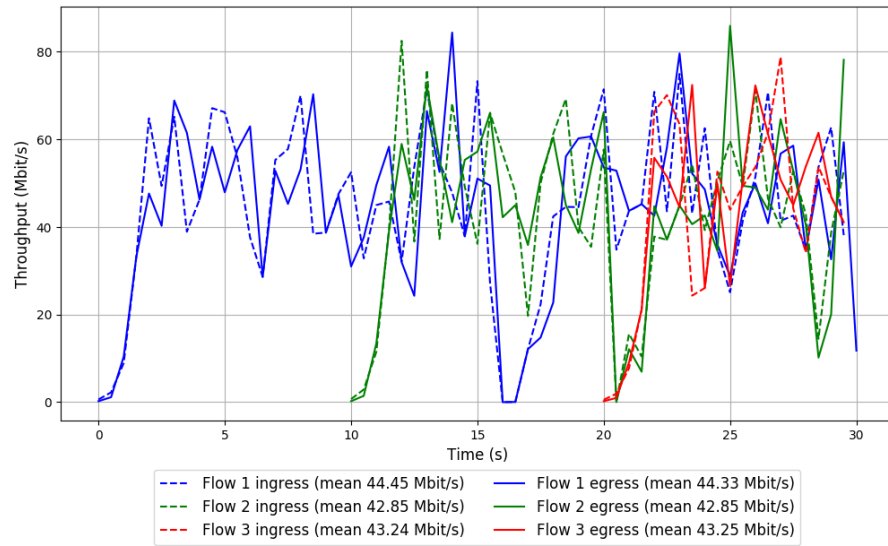
-- Flow 3:

Average throughput: 43.25 Mbit/s

95th percentile per-packet one-way delay: 120.843 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 13:41:49

End at: 2018-01-26 13:42:19

Below is generated by plot.py at 2018-01-26 15:17:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 122.305 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 123.143 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.94 Mbit/s

95th percentile per-packet one-way delay: 120.564 ms

Loss rate: 0.00%

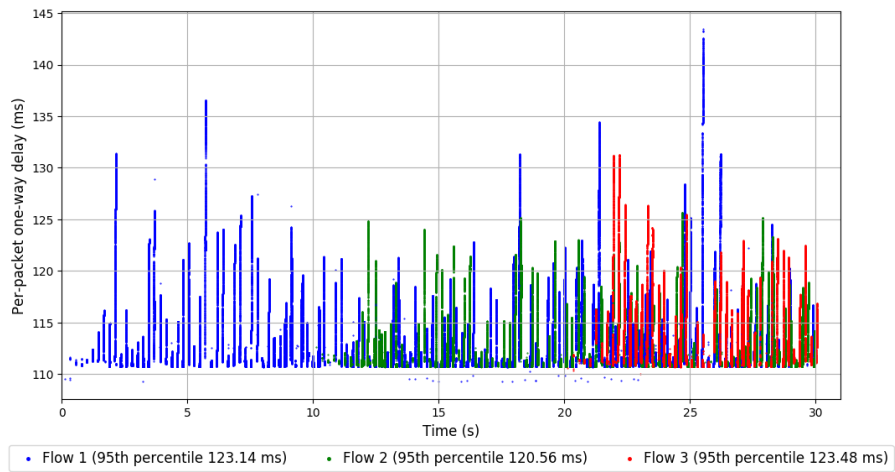
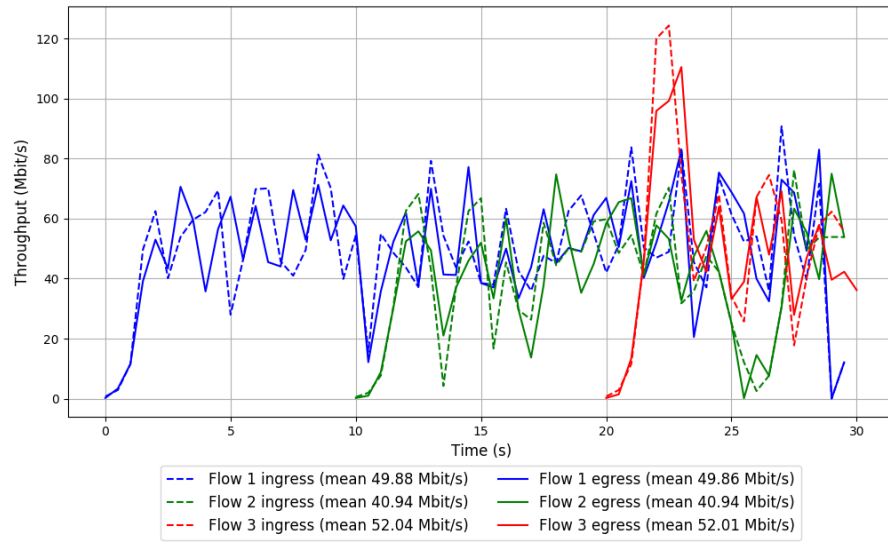
-- Flow 3:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 123.485 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 13:57:29

End at: 2018-01-26 13:57:59

Below is generated by plot.py at 2018-01-26 15:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.56 Mbit/s

95th percentile per-packet one-way delay: 121.702 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 120.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.80 Mbit/s

95th percentile per-packet one-way delay: 121.934 ms

Loss rate: 0.71%

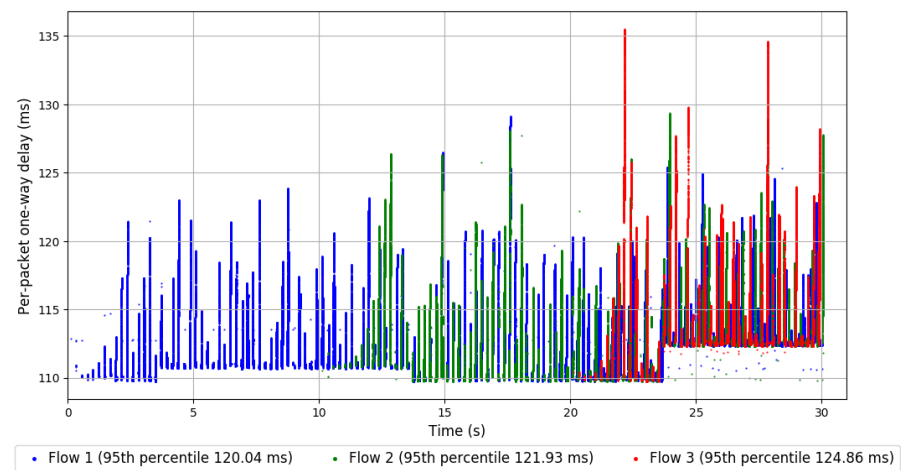
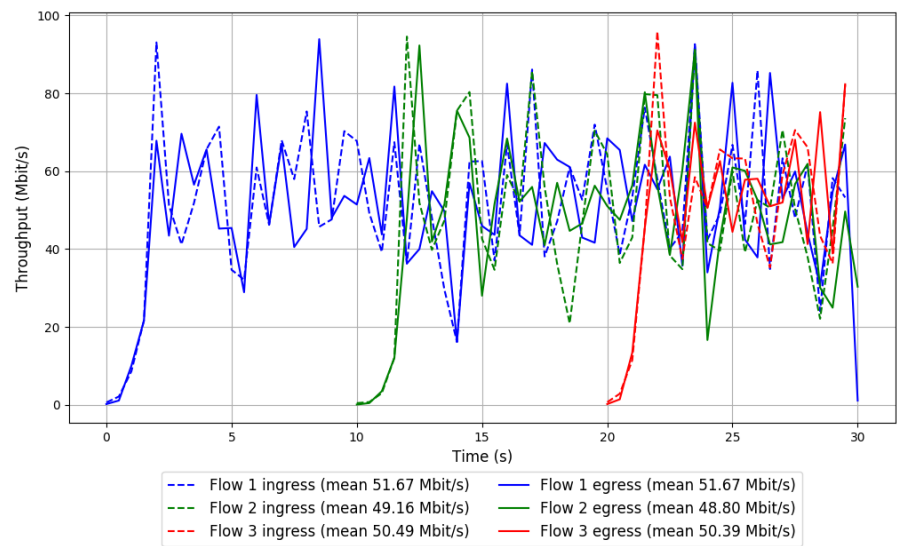
-- Flow 3:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 124.855 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 14:13:03

End at: 2018-01-26 14:13:34

Below is generated by plot.py at 2018-01-26 15:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.66 Mbit/s

95th percentile per-packet one-way delay: 118.002 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 49.65 Mbit/s

95th percentile per-packet one-way delay: 117.550 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 51.04 Mbit/s

95th percentile per-packet one-way delay: 117.964 ms

Loss rate: 0.00%

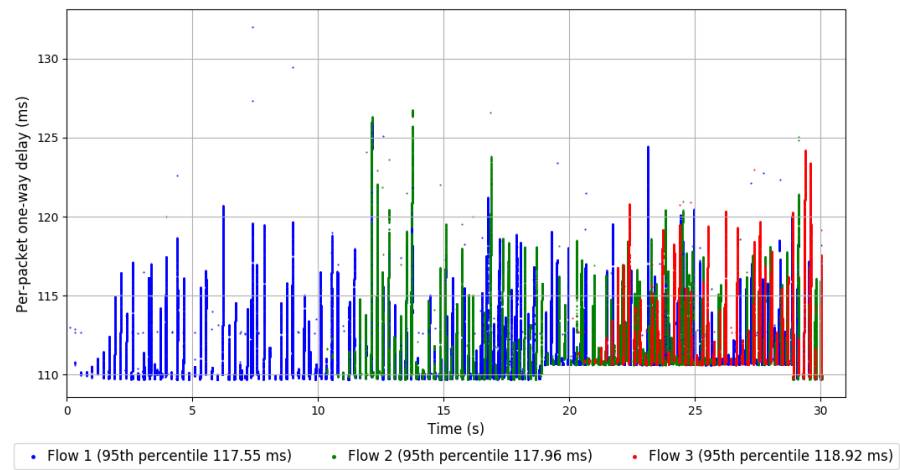
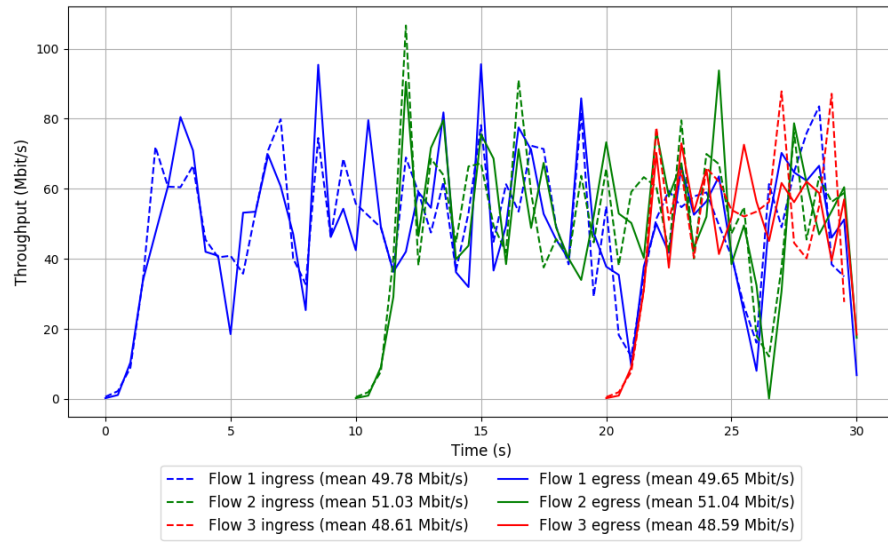
-- Flow 3:

Average throughput: 48.59 Mbit/s

95th percentile per-packet one-way delay: 118.924 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

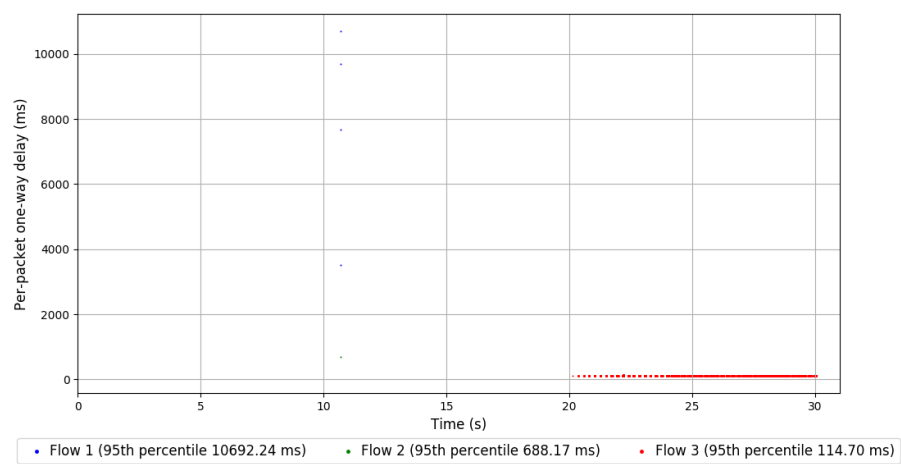
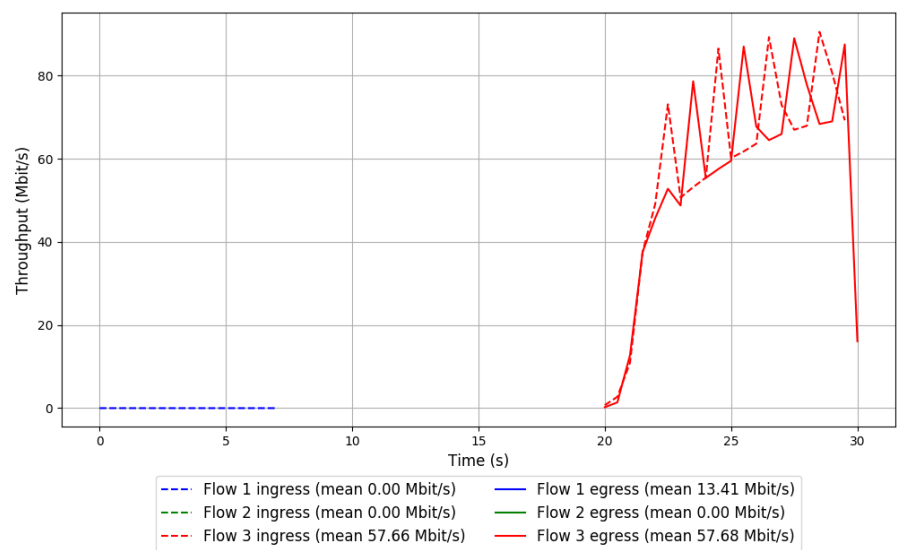


Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 11:55:48

End at: 2018-01-26 11:56:18

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

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

Below is generated by plot.py at 2018-01-26 15:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 124.927 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 124.008 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 42.06 Mbit/s

95th percentile per-packet one-way delay: 125.648 ms

Loss rate: 0.03%

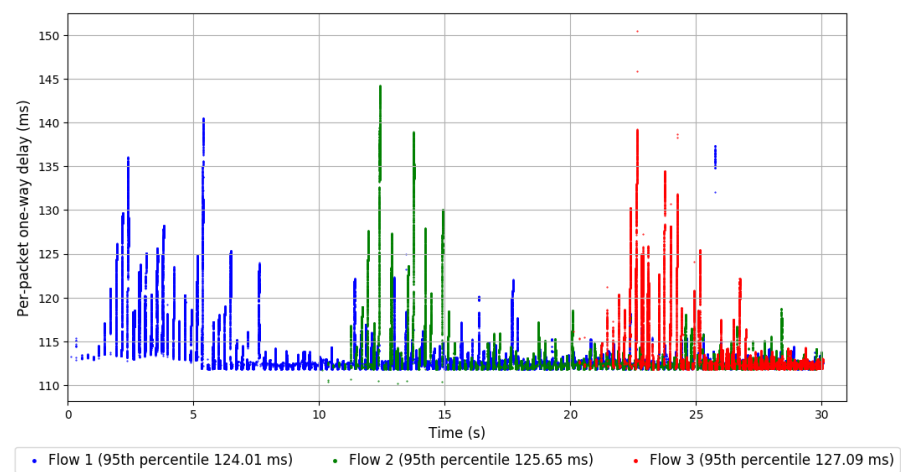
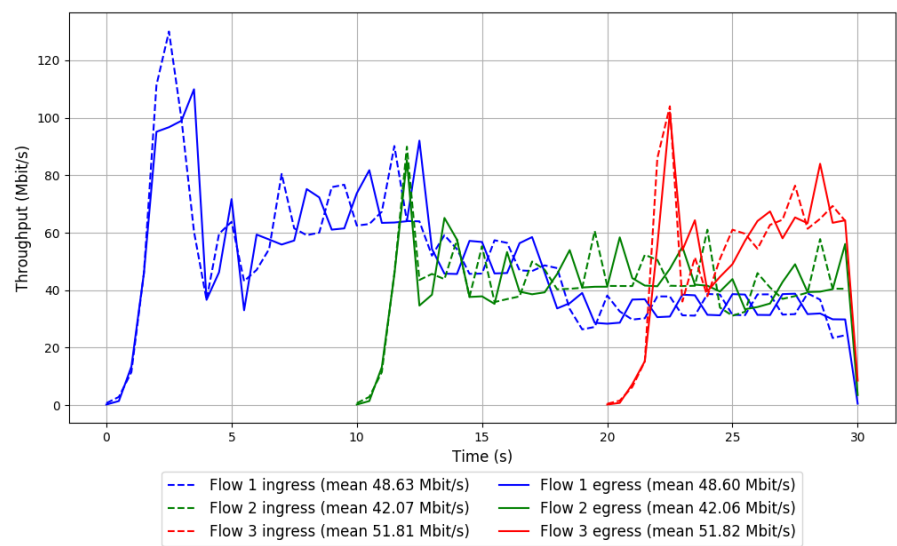
-- Flow 3:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 127.089 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 12:26:39

End at: 2018-01-26 12:27:09

Below is generated by plot.py at 2018-01-26 15:19:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.88 Mbit/s

95th percentile per-packet one-way delay: 130.113 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 130.733 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 126.819 ms

Loss rate: 0.01%

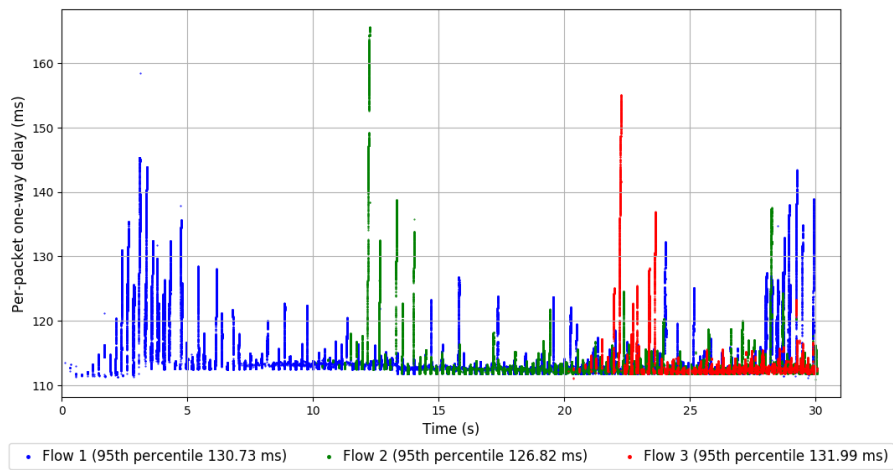
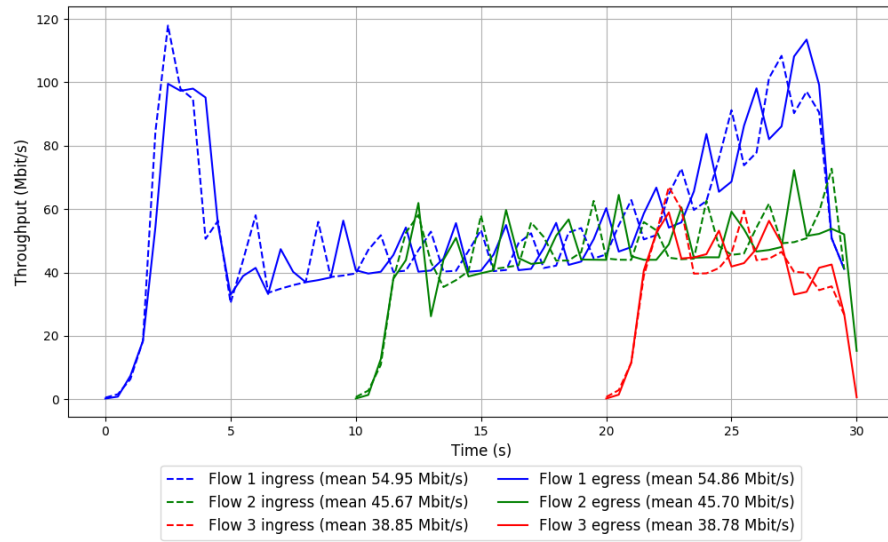
-- Flow 3:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 131.986 ms

Loss rate: 0.18%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 12:42:10

End at: 2018-01-26 12:42:40

Below is generated by plot.py at 2018-01-26 15:19:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.07 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.69 Mbit/s

95th percentile per-packet one-way delay: 114.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 114.584 ms

Loss rate: 0.00%

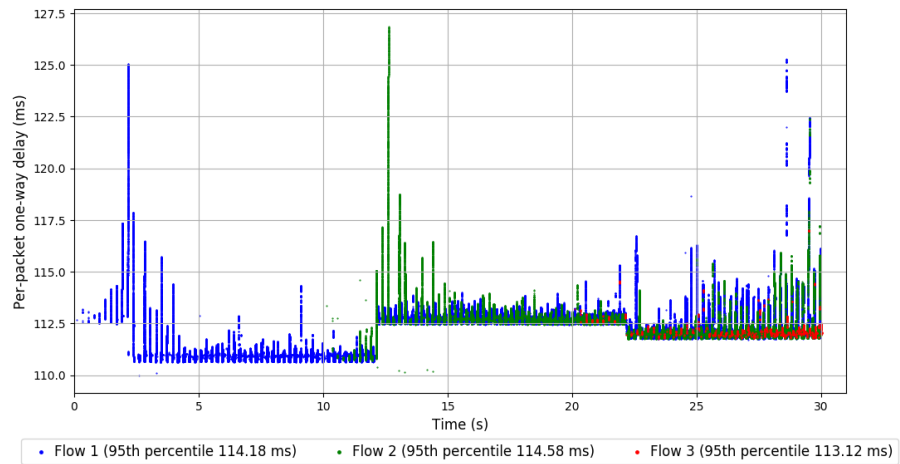
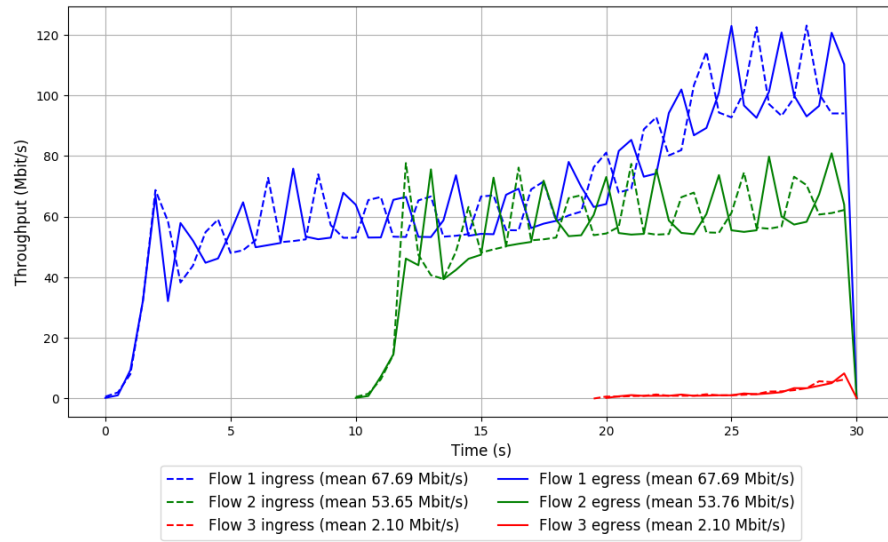
-- Flow 3:

Average throughput: 2.10 Mbit/s

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

Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 12:58:03

End at: 2018-01-26 12:58:33

Below is generated by plot.py at 2018-01-26 15:20:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.57 Mbit/s

95th percentile per-packet one-way delay: 114.622 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 115.402 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.69 Mbit/s

95th percentile per-packet one-way delay: 113.583 ms

Loss rate: 0.00%

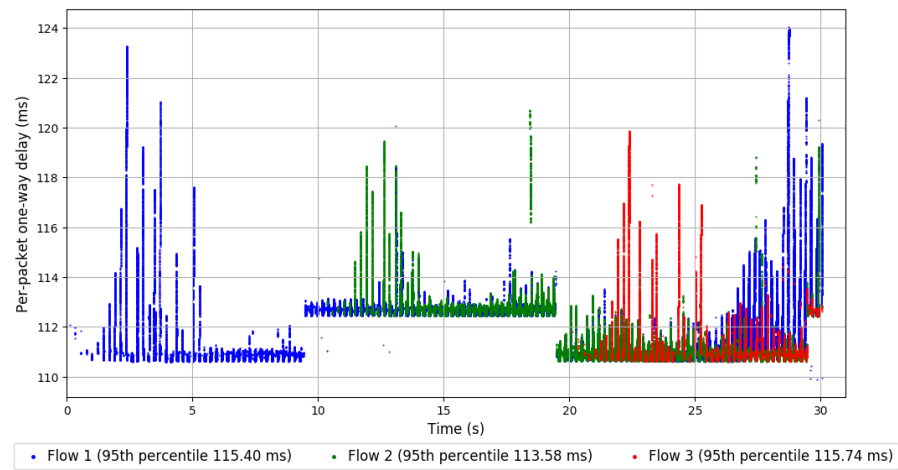
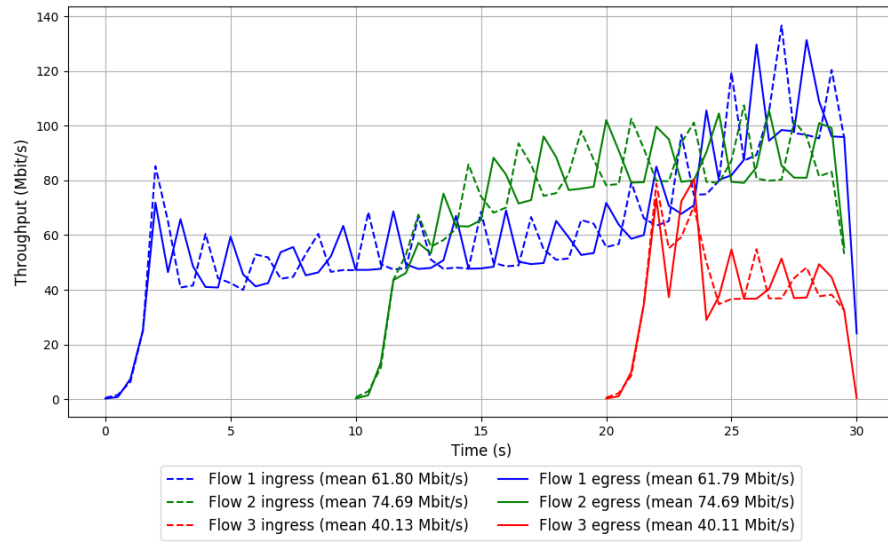
-- Flow 3:

Average throughput: 40.11 Mbit/s

95th percentile per-packet one-way delay: 115.737 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 13:13:56

End at: 2018-01-26 13:14:26

Below is generated by plot.py at 2018-01-26 15:20:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.66 Mbit/s

95th percentile per-packet one-way delay: 115.276 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.15 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 116.843 ms

Loss rate: 0.00%

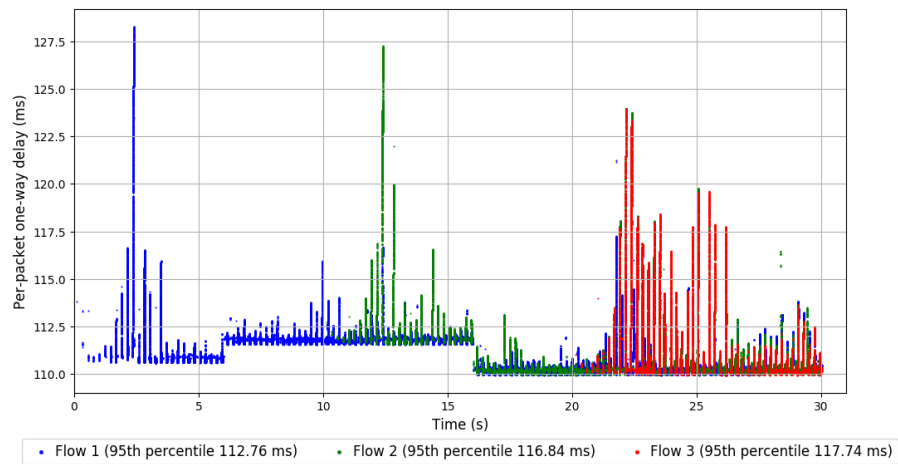
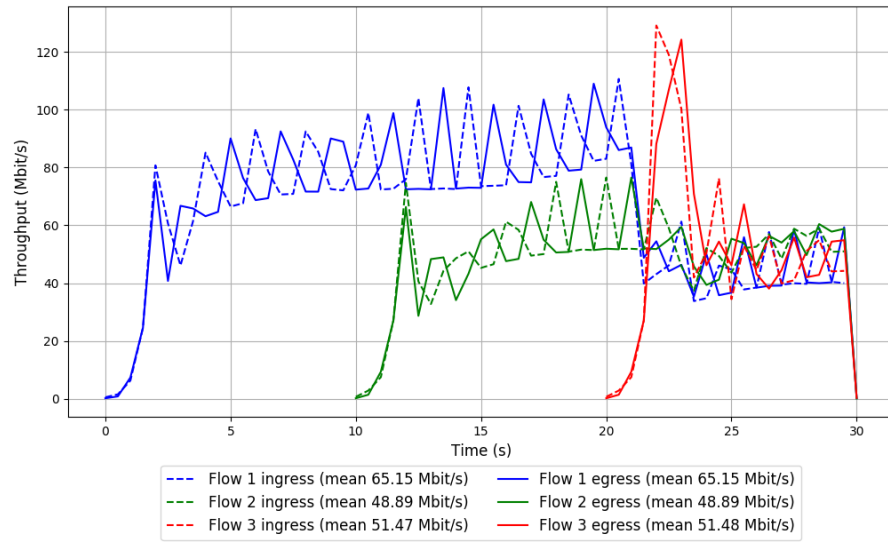
-- Flow 3:

Average throughput: 51.48 Mbit/s

95th percentile per-packet one-way delay: 117.739 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 13:29:11

End at: 2018-01-26 13:29:41

Below is generated by plot.py at 2018-01-26 15:20:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.18 Mbit/s

95th percentile per-packet one-way delay: 116.198 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 116.507 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.53 Mbit/s

95th percentile per-packet one-way delay: 116.086 ms

Loss rate: 0.00%

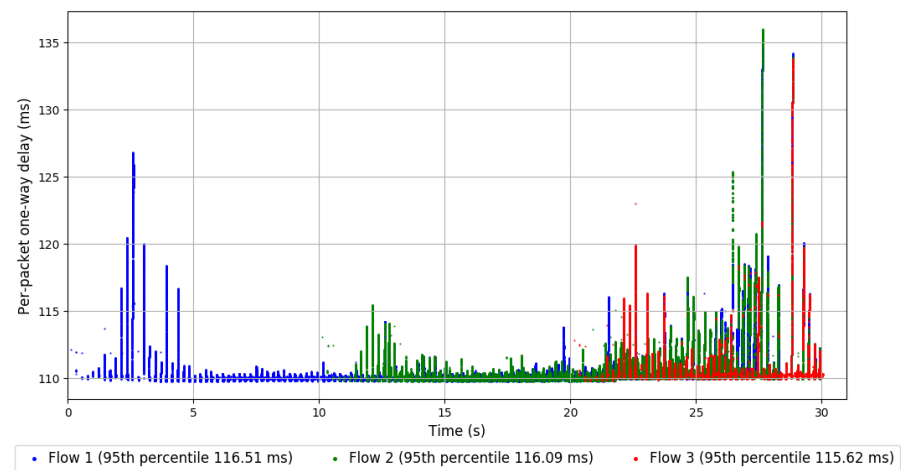
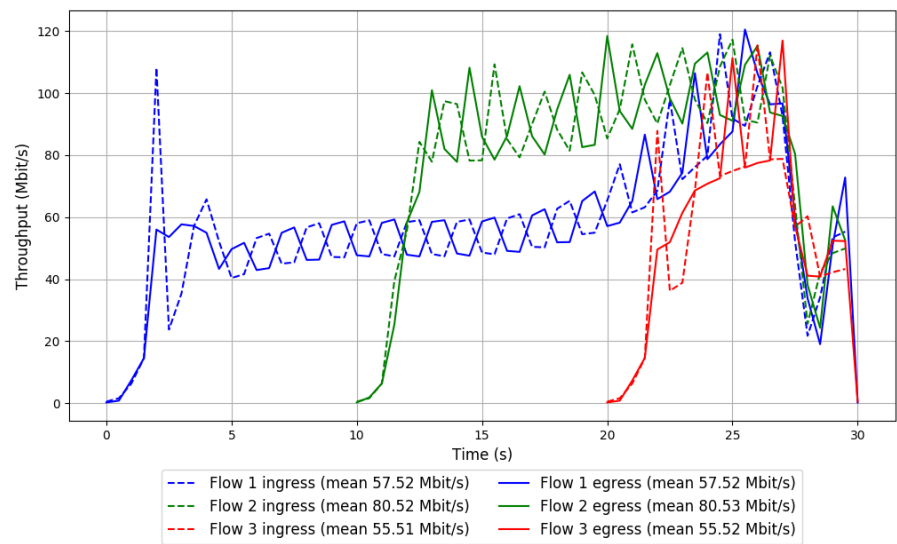
-- Flow 3:

Average throughput: 55.52 Mbit/s

95th percentile per-packet one-way delay: 115.620 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 13:45:10

End at: 2018-01-26 13:45:40

Below is generated by plot.py at 2018-01-26 15:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.22 Mbit/s

95th percentile per-packet one-way delay: 115.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.54 Mbit/s

95th percentile per-packet one-way delay: 115.040 ms

Loss rate: 0.00%

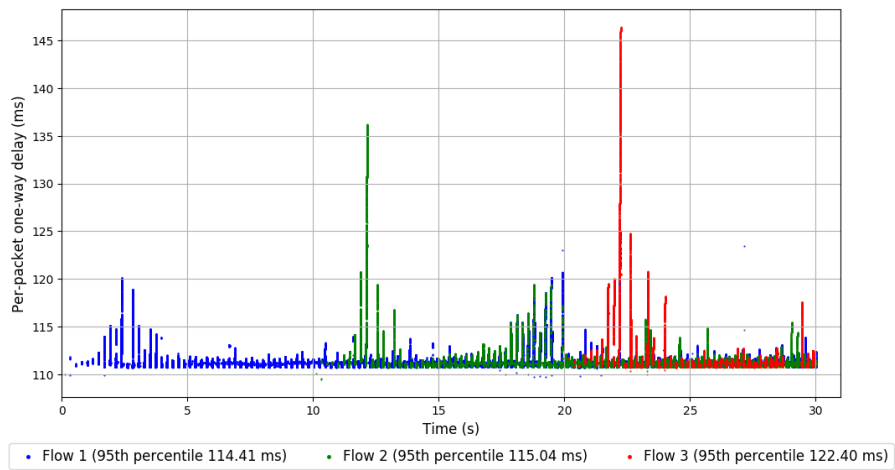
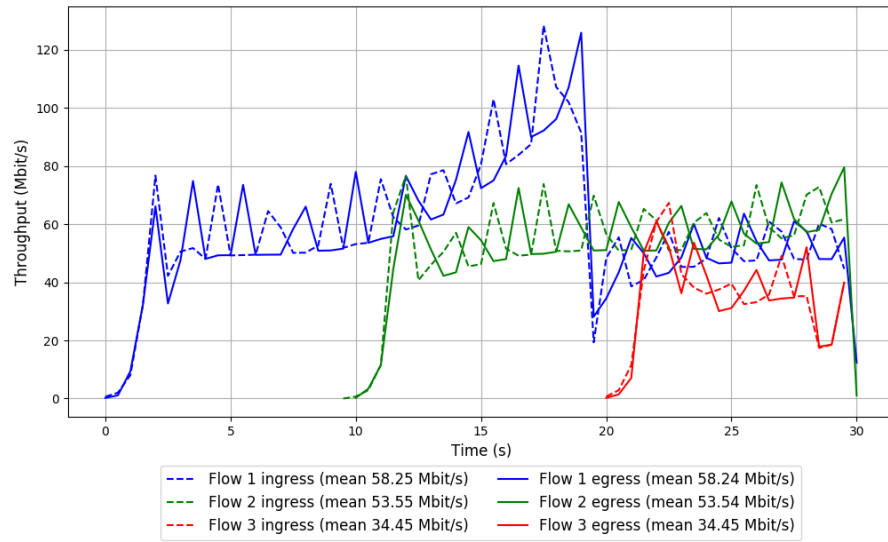
-- Flow 3:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 122.403 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 14:00:51

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

Below is generated by plot.py at 2018-01-26 15:21:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.82 Mbit/s

95th percentile per-packet one-way delay: 114.738 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 113.795 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 52.00 Mbit/s

95th percentile per-packet one-way delay: 115.963 ms

Loss rate: 0.00%

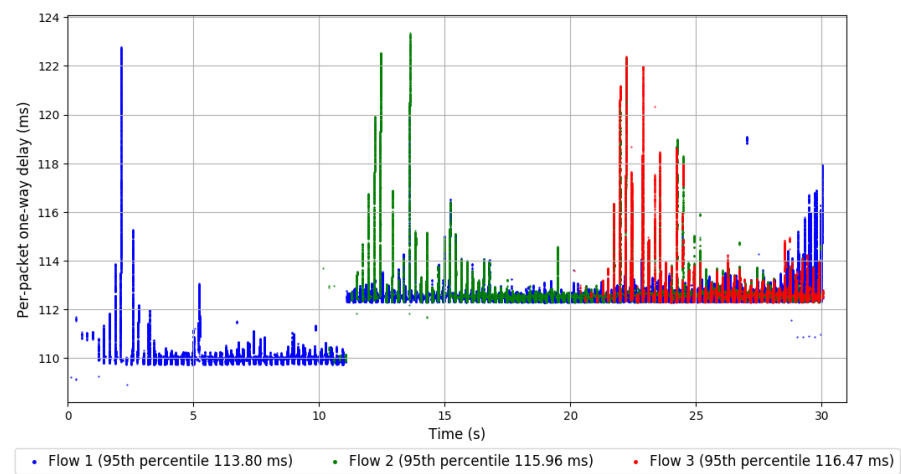
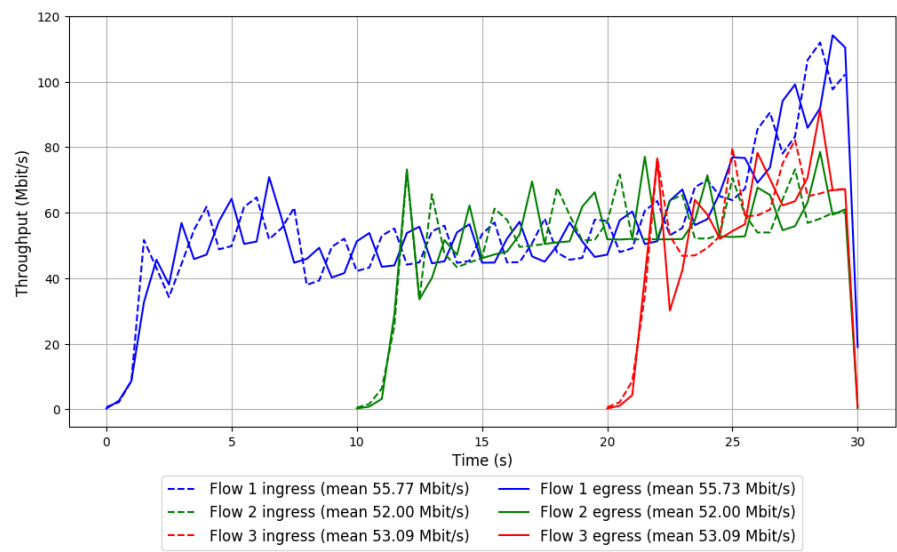
-- Flow 3:

Average throughput: 53.09 Mbit/s

95th percentile per-packet one-way delay: 116.471 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 14:16:26

End at: 2018-01-26 14:16:56

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.93 Mbit/s

95th percentile per-packet one-way delay: 113.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.24 Mbit/s

95th percentile per-packet one-way delay: 111.781 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.62 Mbit/s

95th percentile per-packet one-way delay: 115.568 ms

Loss rate: 0.00%

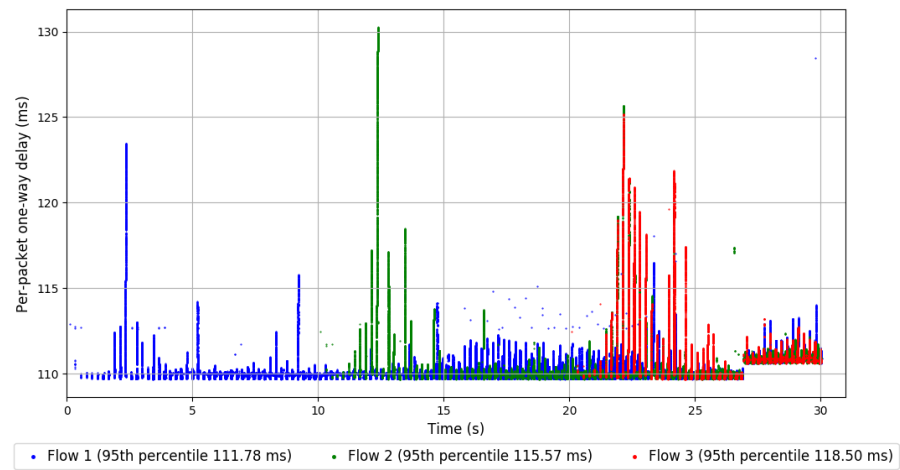
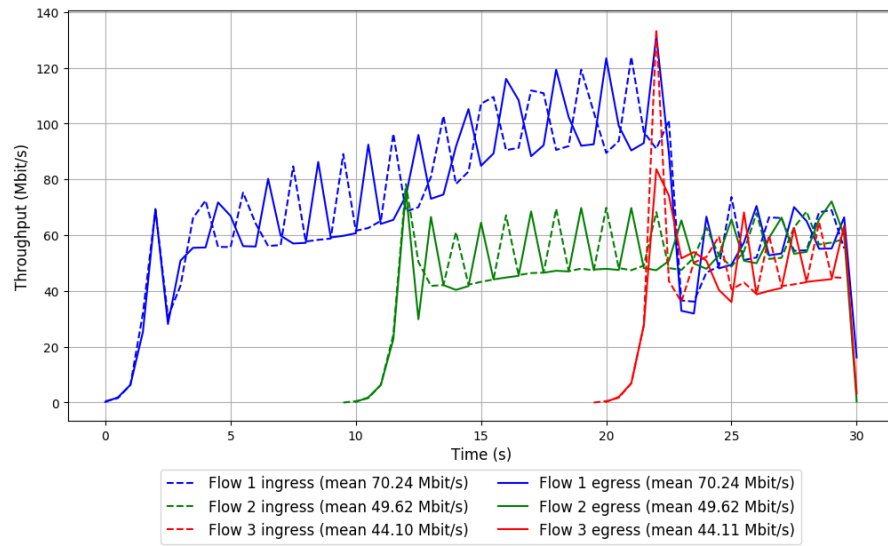
-- Flow 3:

Average throughput: 44.11 Mbit/s

95th percentile per-packet one-way delay: 118.502 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

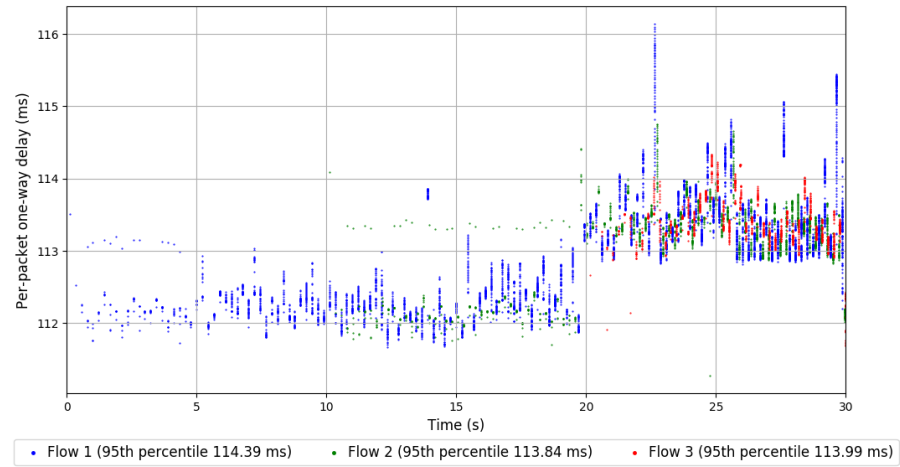
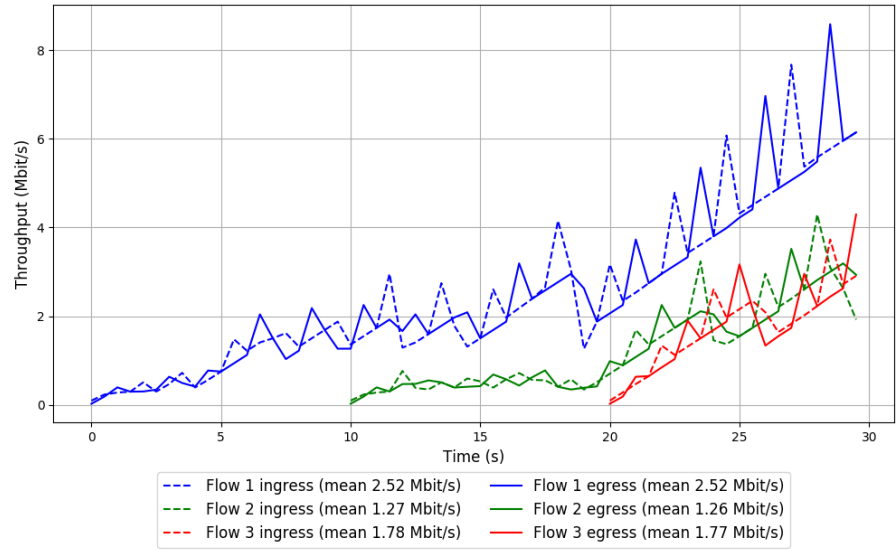


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 11:45:23
End at: 2018-01-26 11:45:53

# Below is generated by plot.py at 2018-01-26 15:21:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 114.235 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 114.392 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 113.838 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 113.990 ms
Loss rate: 0.47%
```


Run 1: Report of LEDBAT — Data Link

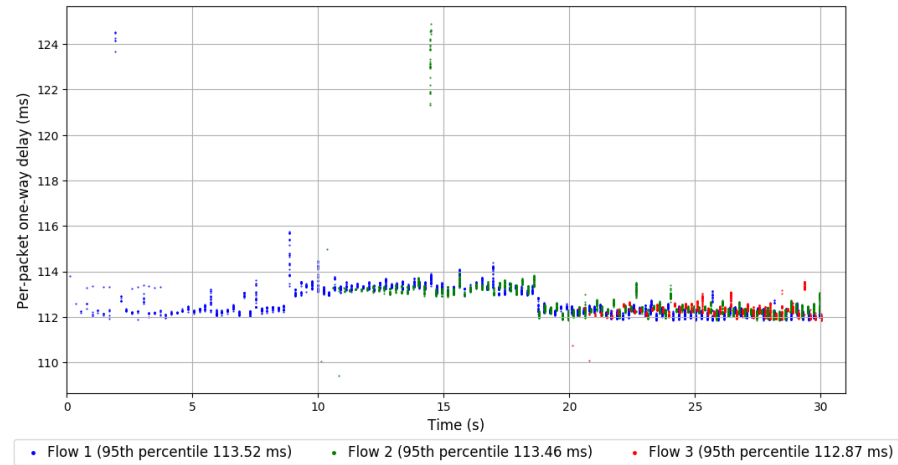
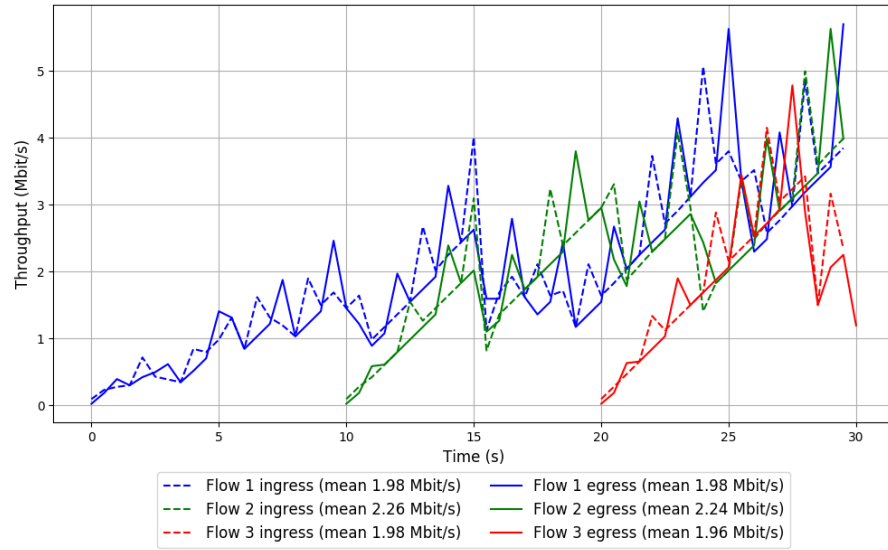


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 12:01:24
End at: 2018-01-26 12:01:54

# Below is generated by plot.py at 2018-01-26 15:21:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 113.473 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 113.517 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 113.461 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 112.866 ms
Loss rate: 1.37%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 12:16:55

End at: 2018-01-26 12:17:25

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 115.020 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 113.250 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 115.204 ms

Loss rate: 0.00%

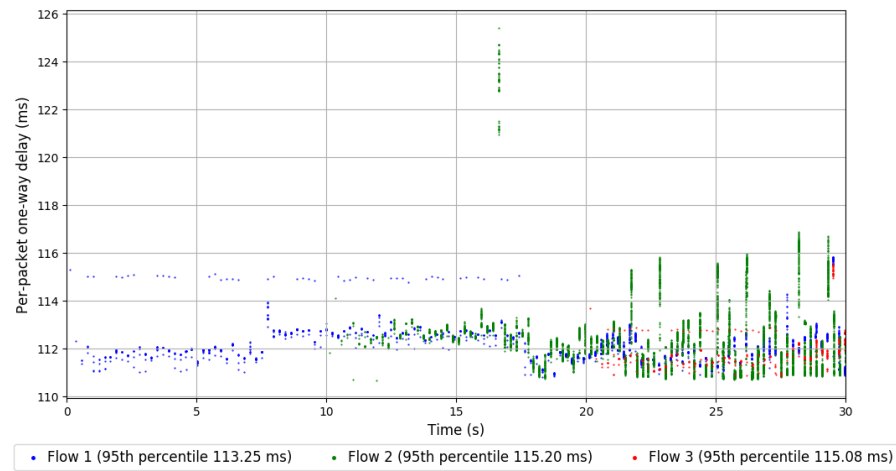
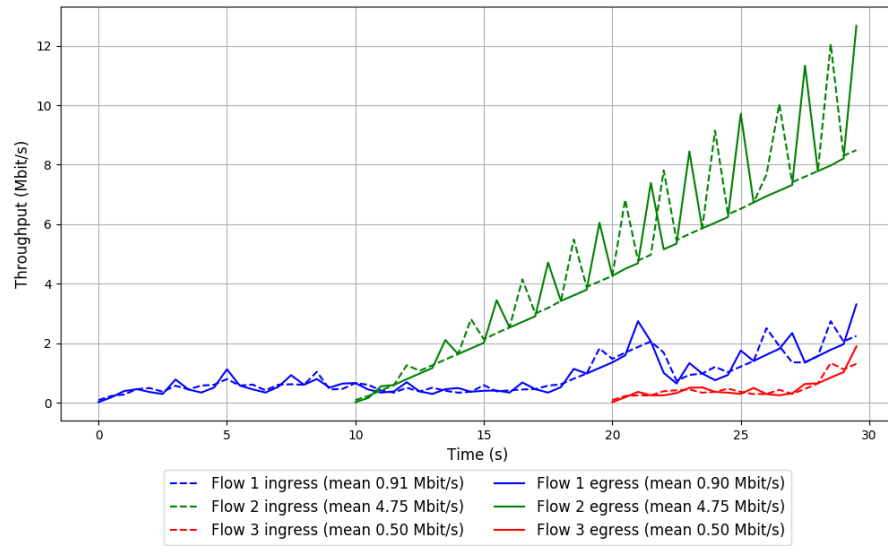
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 115.082 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 12:32:18

End at: 2018-01-26 12:32:48

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 113.951 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.64 Mbit/s

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

Loss rate: 1.22%

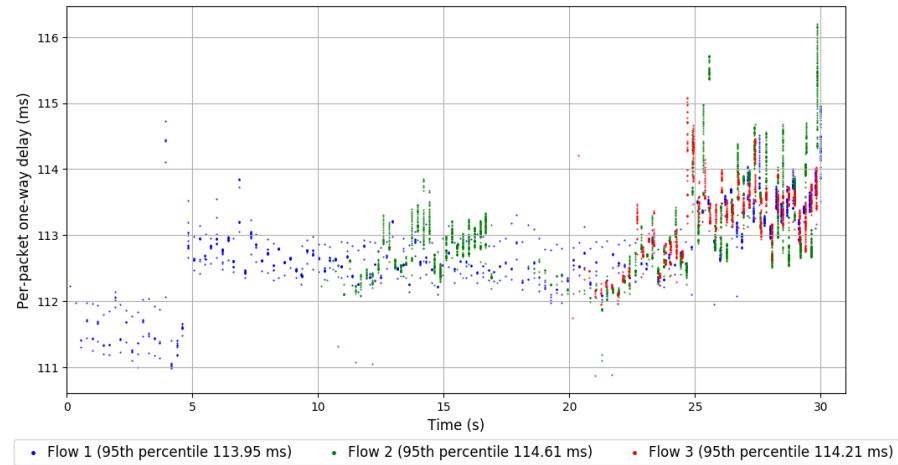
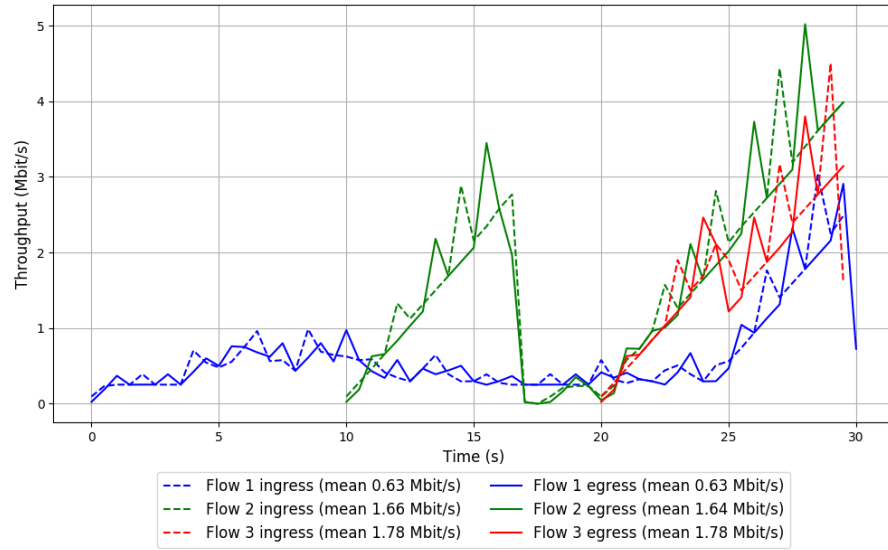
-- Flow 3:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 114.211 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 12:47:49

End at: 2018-01-26 12:48:19

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.43 Mbit/s

95th percentile per-packet one-way delay: 113.181 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 113.268 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 113.108 ms

Loss rate: 0.00%

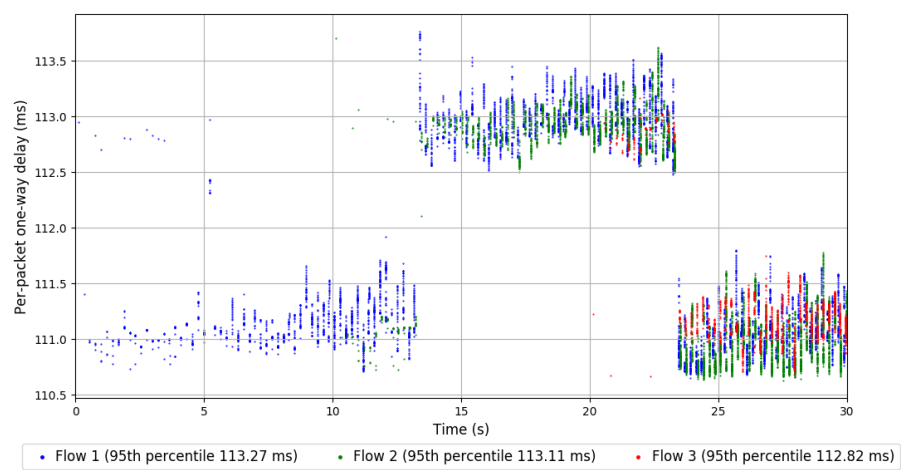
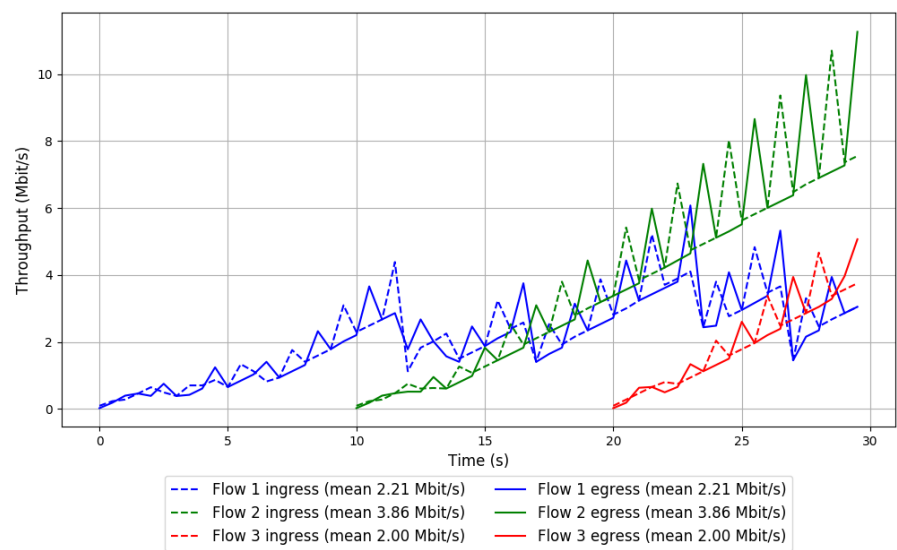
-- Flow 3:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 112.821 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-26 13:03:35

End at: 2018-01-26 13:04:05

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 112.154 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 112.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 112.041 ms

Loss rate: 0.00%

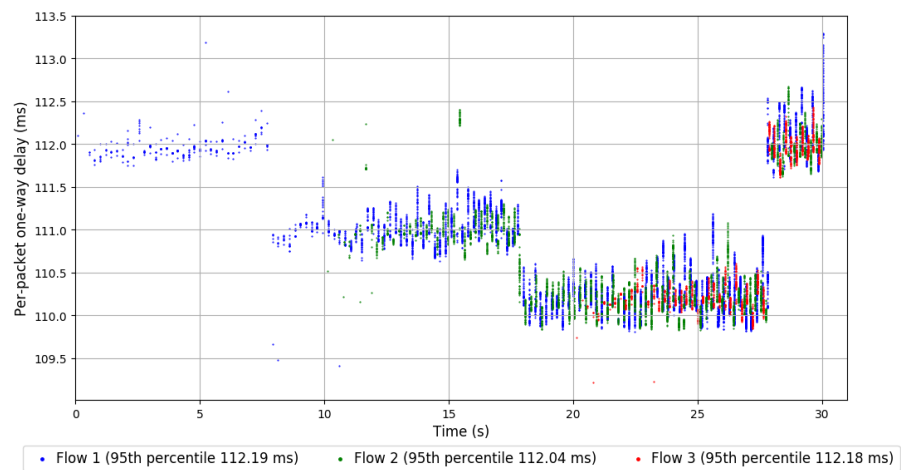
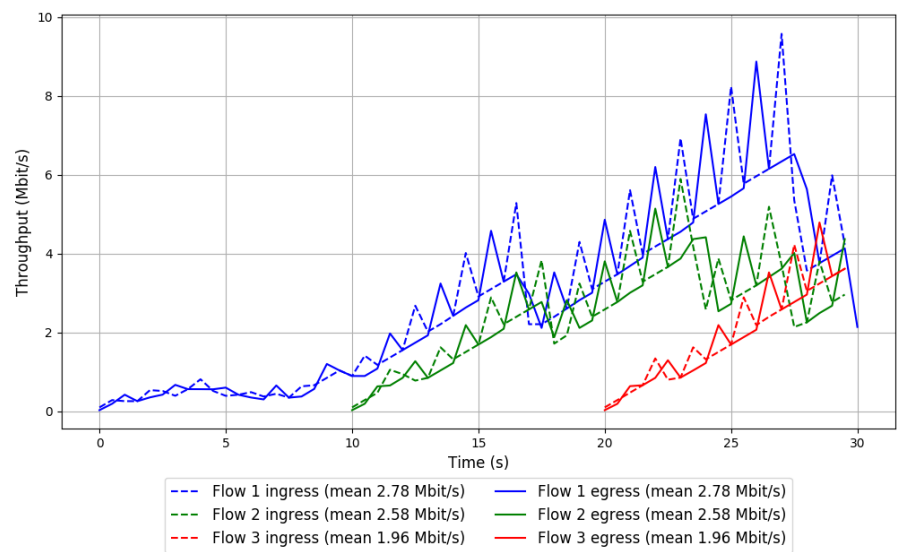
-- Flow 3:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 112.176 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 13:19:30

End at: 2018-01-26 13:20:00

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 112.745 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 112.450 ms

Loss rate: 0.00%

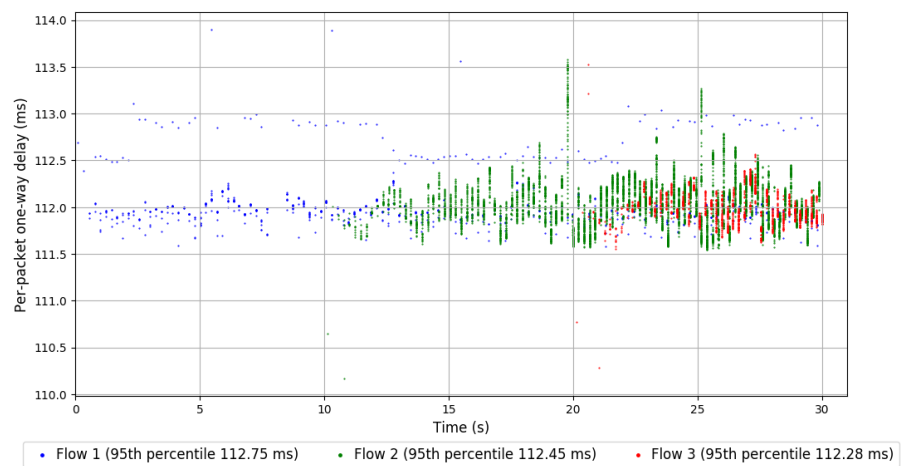
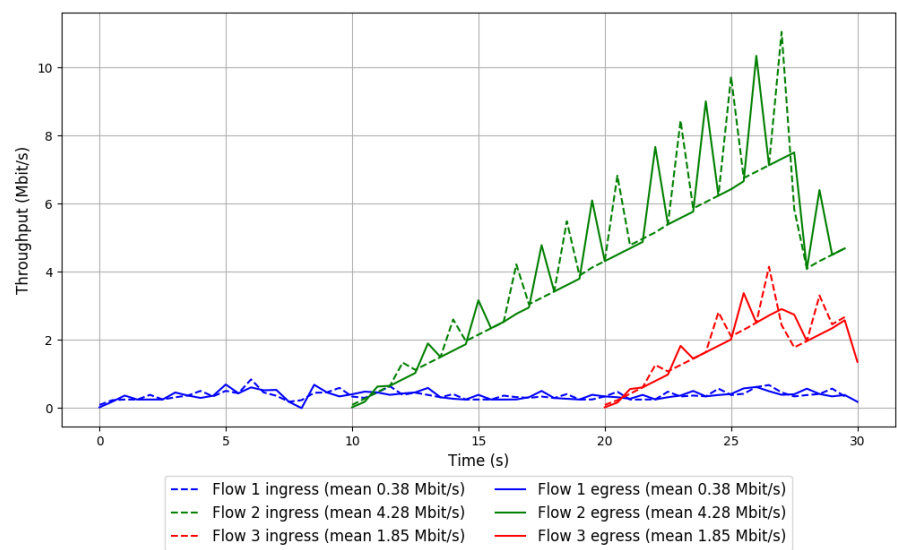
-- Flow 3:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 112.275 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 13:34:55

End at: 2018-01-26 13:35:25

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.86 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 112.954 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.04 Mbit/s

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

Loss rate: 0.00%

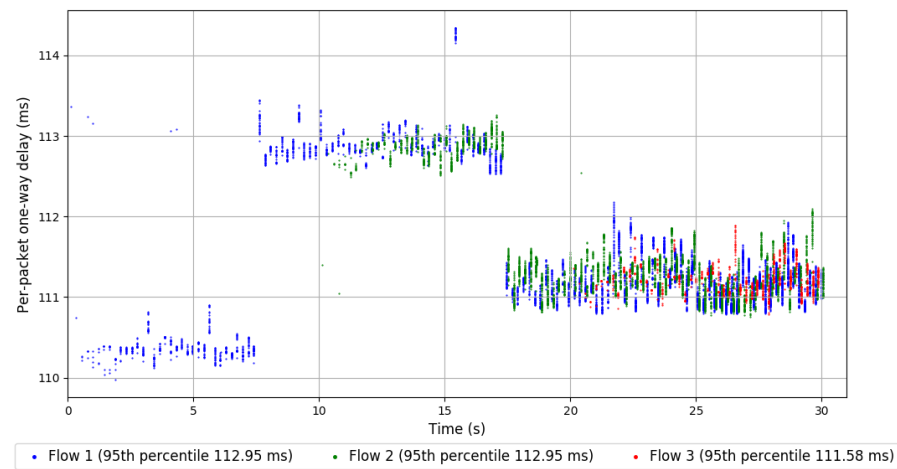
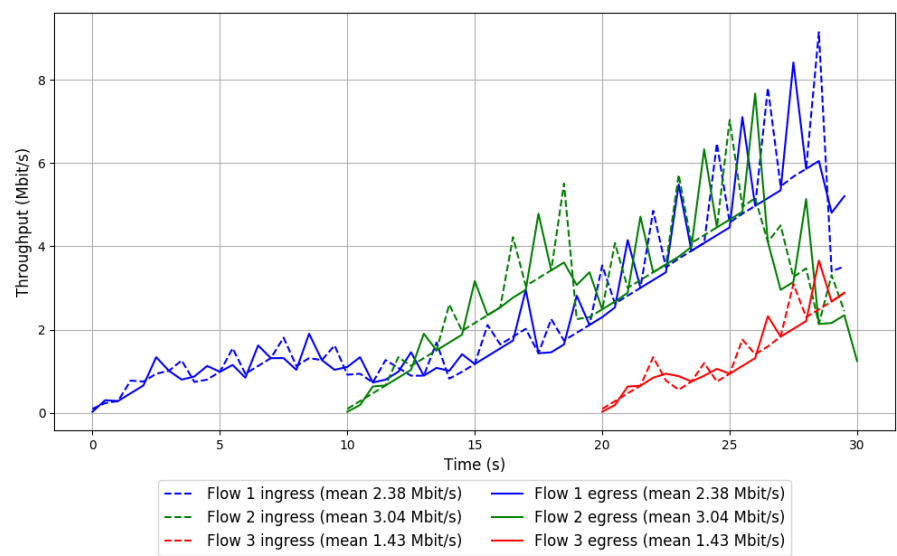
-- Flow 3:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 111.580 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 13:50:45

End at: 2018-01-26 13:51:15

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 113.308 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 113.461 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 112.997 ms

Loss rate: 0.00%

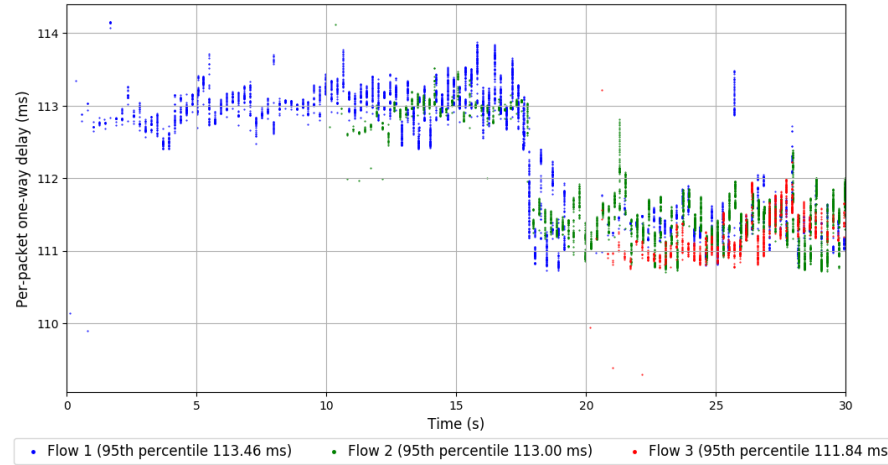
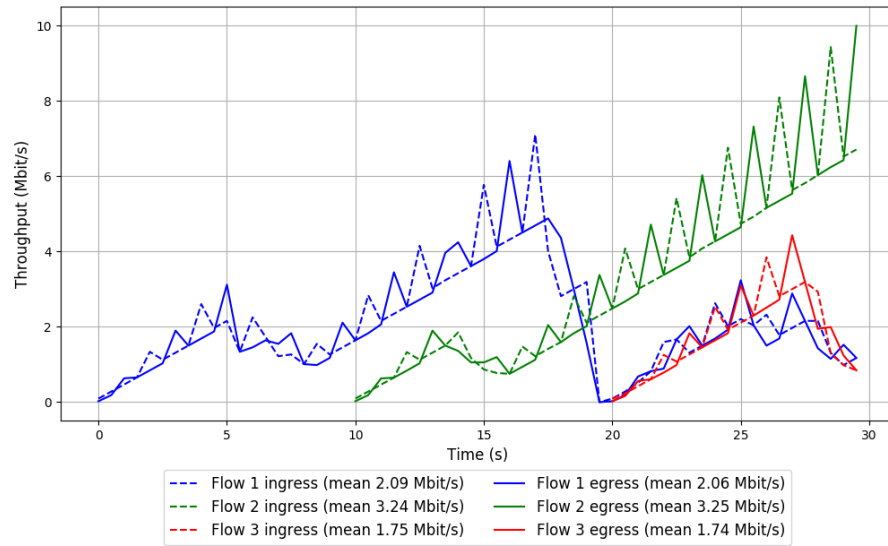
-- Flow 3:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 111.836 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 14:06:26

End at: 2018-01-26 14:06:56

Below is generated by plot.py at 2018-01-26 15:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.82 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.74 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 111.058 ms

Loss rate: 0.00%

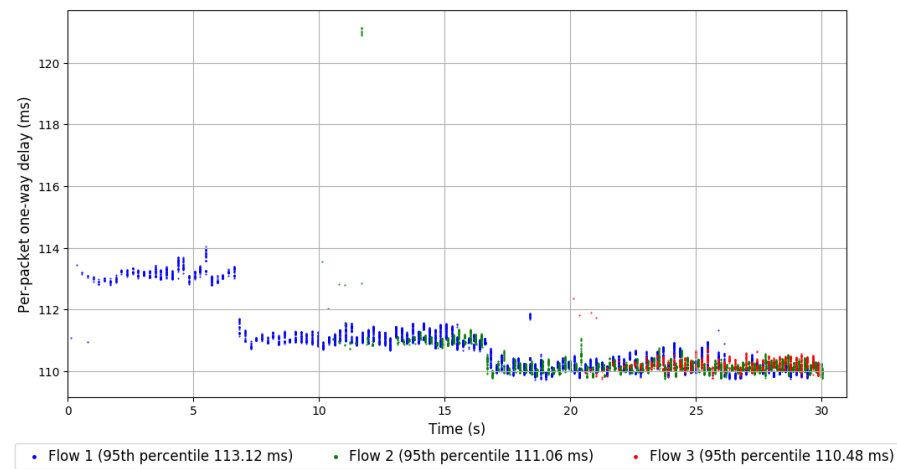
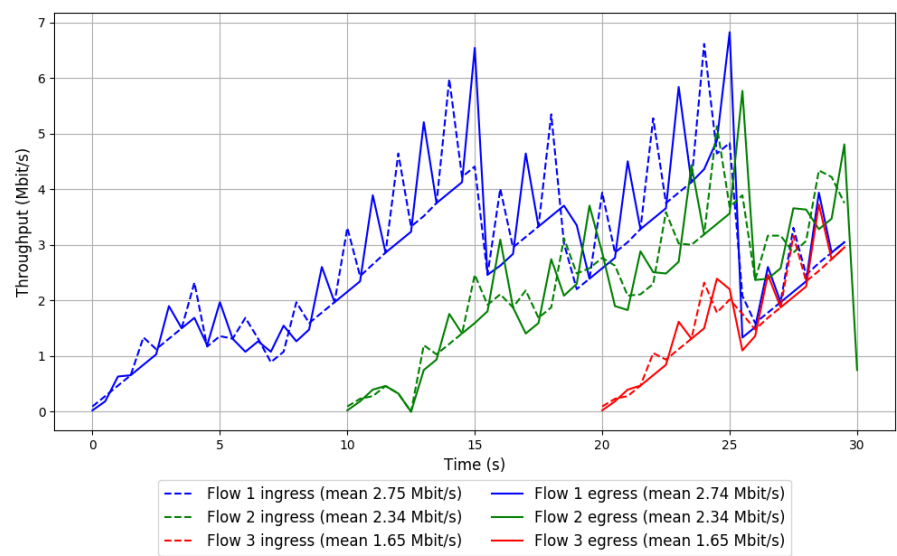
-- Flow 3:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 110.478 ms

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link

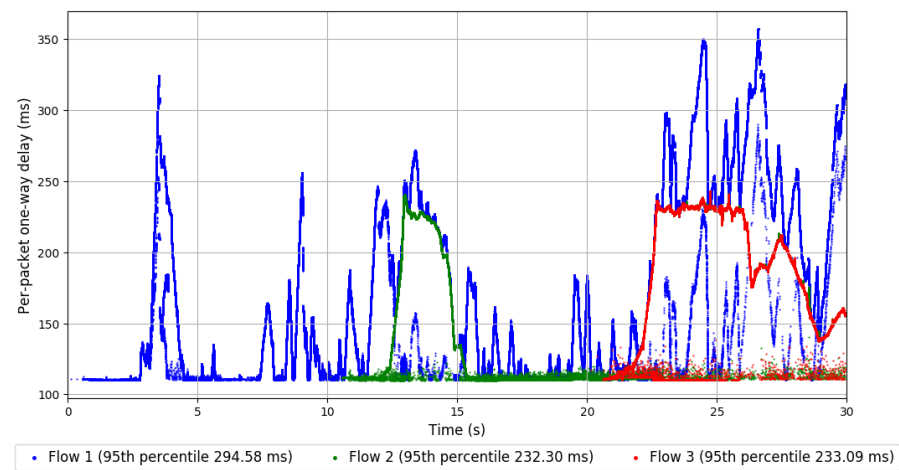
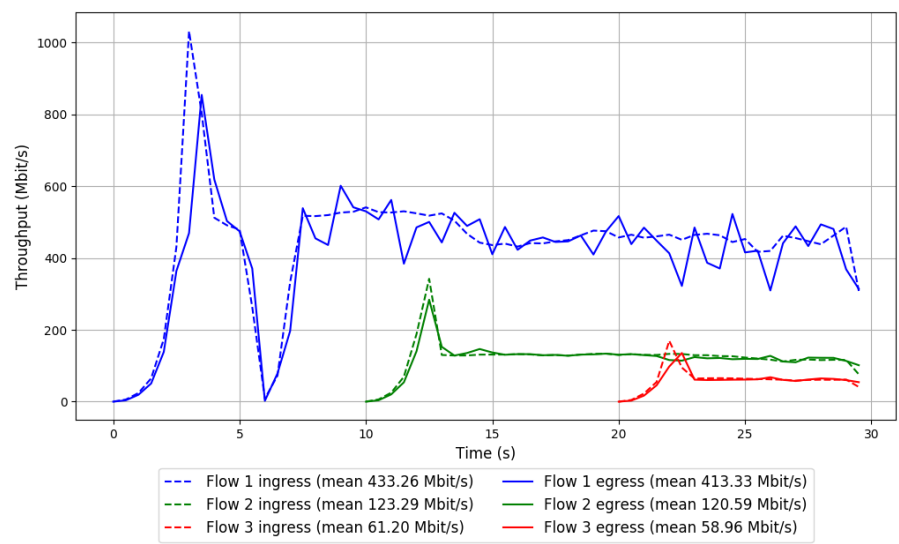


```
Run 1: Statistics of PCC

Start at: 2018-01-26 11:46:56
End at: 2018-01-26 11:47:26

# Below is generated by plot.py at 2018-01-26 15:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 512.84 Mbit/s
95th percentile per-packet one-way delay: 288.902 ms
Loss rate: 4.19%
-- Flow 1:
Average throughput: 413.33 Mbit/s
95th percentile per-packet one-way delay: 294.577 ms
Loss rate: 4.59%
-- Flow 2:
Average throughput: 120.59 Mbit/s
95th percentile per-packet one-way delay: 232.297 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 58.96 Mbit/s
95th percentile per-packet one-way delay: 233.094 ms
Loss rate: 3.70%
```

Run 1: Report of PCC — Data Link

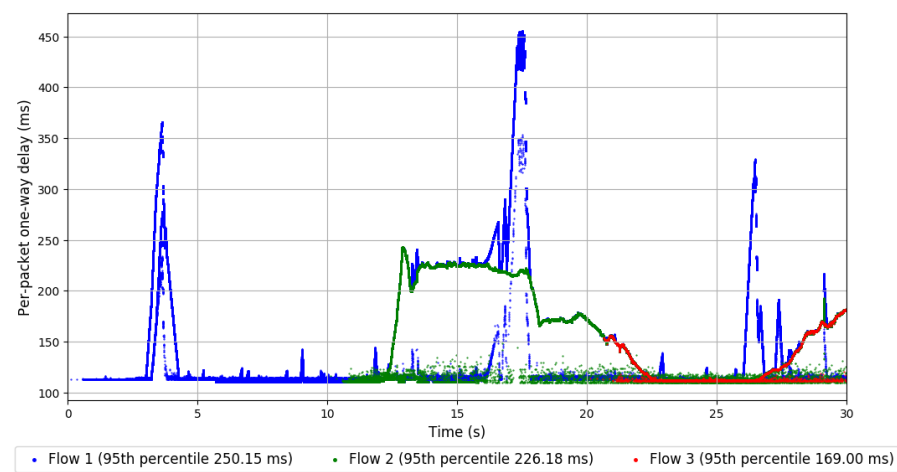
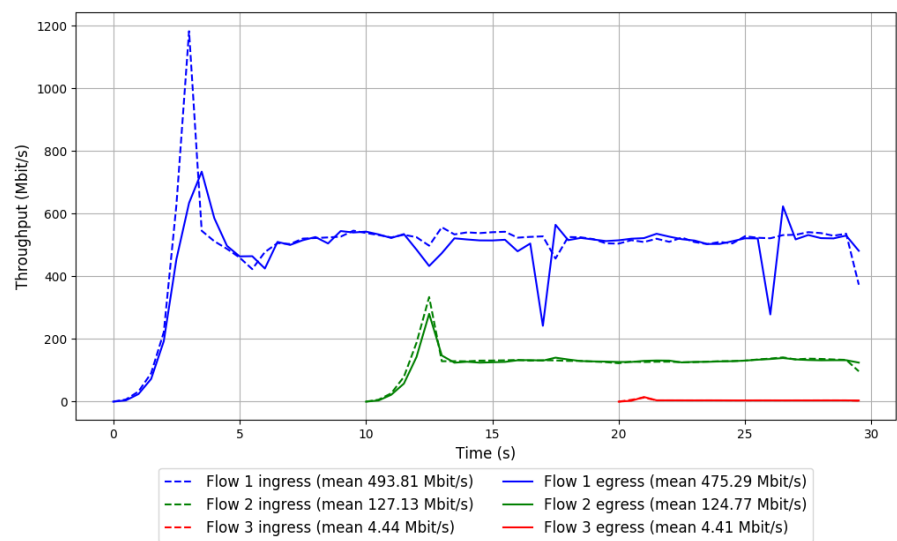


```
Run 2: Statistics of PCC

Start at: 2018-01-26 12:02:57
End at: 2018-01-26 12:03:27

# Below is generated by plot.py at 2018-01-26 15:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.62 Mbit/s
95th percentile per-packet one-way delay: 243.754 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 475.29 Mbit/s
95th percentile per-packet one-way delay: 250.147 ms
Loss rate: 3.76%
-- Flow 2:
Average throughput: 124.77 Mbit/s
95th percentile per-packet one-way delay: 226.184 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 169.005 ms
Loss rate: 0.66%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 12:18:29

End at: 2018-01-26 12:18:59

Below is generated by plot.py at 2018-01-26 15:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 418.57 Mbit/s

95th percentile per-packet one-way delay: 338.087 ms

Loss rate: 10.29%

-- Flow 1:

Average throughput: 265.62 Mbit/s

95th percentile per-packet one-way delay: 357.709 ms

Loss rate: 13.30%

-- Flow 2:

Average throughput: 229.08 Mbit/s

95th percentile per-packet one-way delay: 270.031 ms

Loss rate: 4.56%

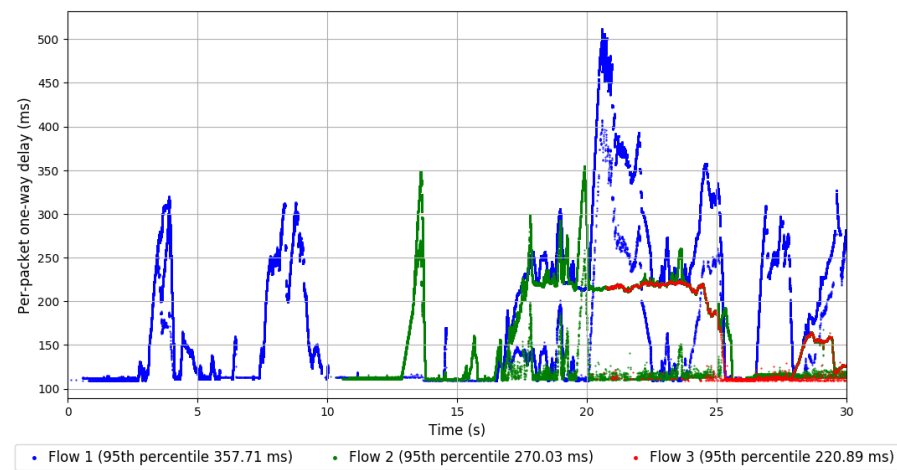
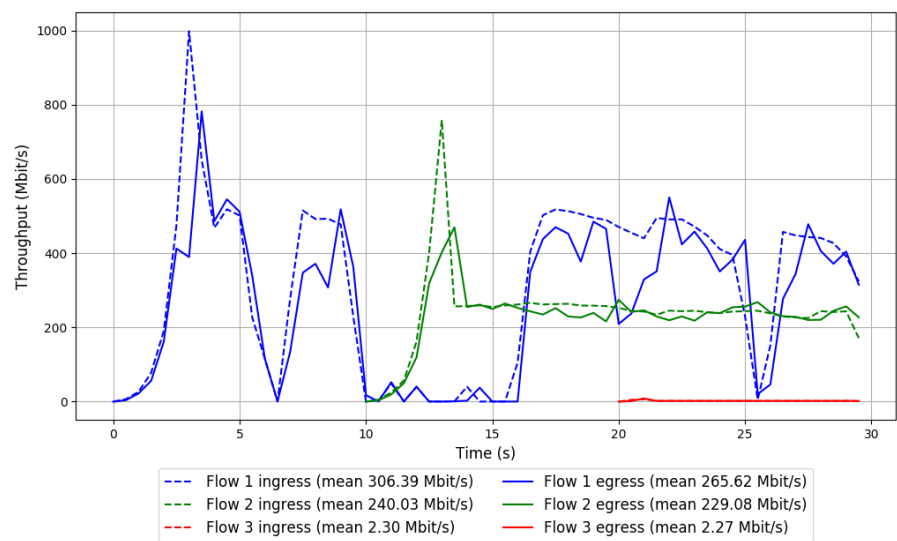
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 220.892 ms

Loss rate: 1.28%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 12:33:51

End at: 2018-01-26 12:34:21

Below is generated by plot.py at 2018-01-26 15:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.53 Mbit/s

95th percentile per-packet one-way delay: 411.977 ms

Loss rate: 11.59%

-- Flow 1:

Average throughput: 292.93 Mbit/s

95th percentile per-packet one-way delay: 422.492 ms

Loss rate: 14.63%

-- Flow 2:

Average throughput: 126.77 Mbit/s

95th percentile per-packet one-way delay: 231.696 ms

Loss rate: 2.67%

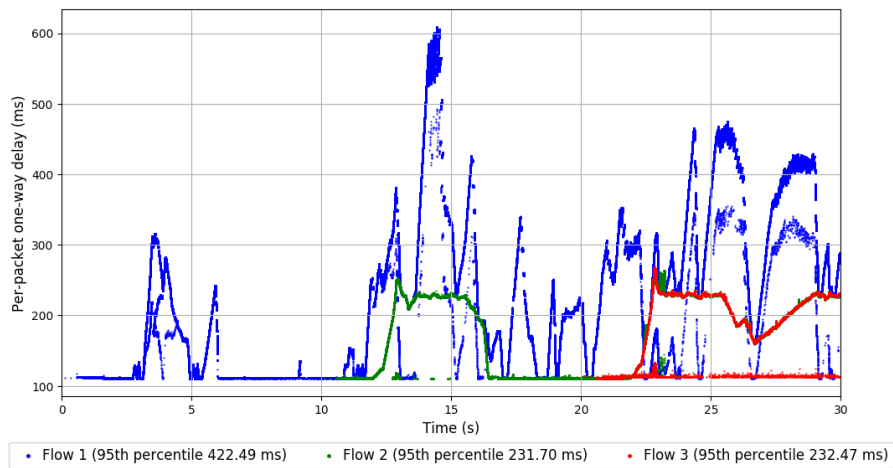
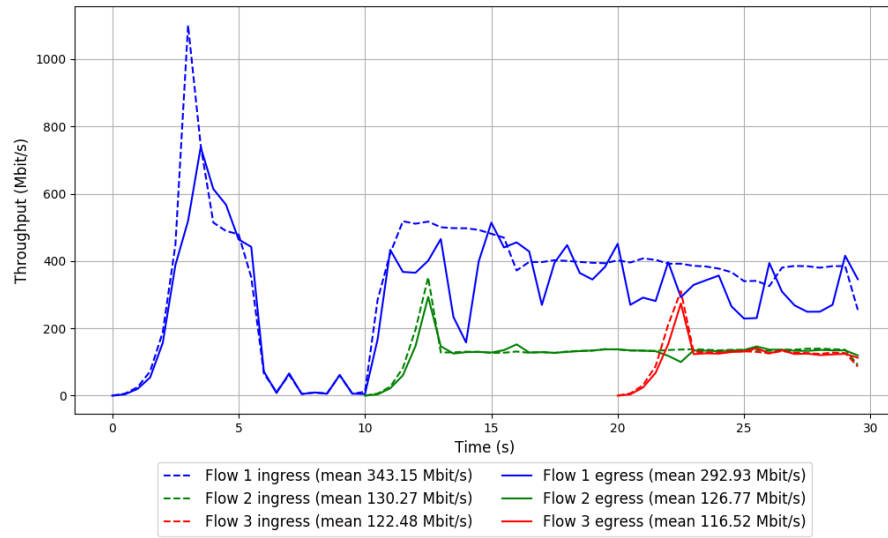
-- Flow 3:

Average throughput: 116.52 Mbit/s

95th percentile per-packet one-way delay: 232.468 ms

Loss rate: 4.89%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 12:49:22

End at: 2018-01-26 12:49:52

Below is generated by plot.py at 2018-01-26 15:31:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 542.59 Mbit/s

95th percentile per-packet one-way delay: 229.091 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 477.88 Mbit/s

95th percentile per-packet one-way delay: 229.096 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 228.730 ms

Loss rate: 0.72%

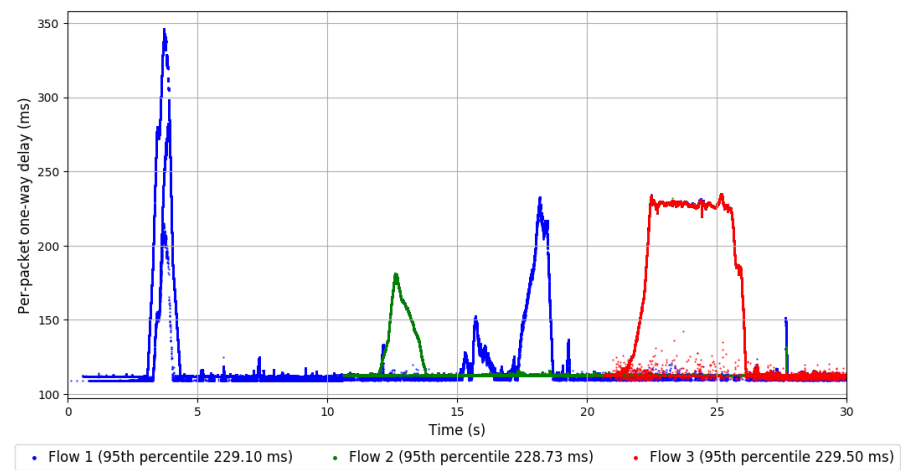
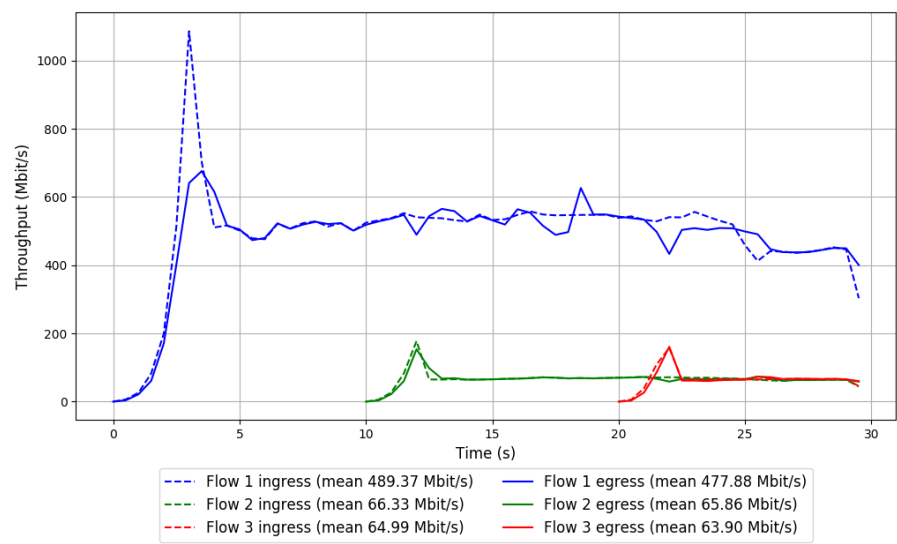
-- Flow 3:

Average throughput: 63.90 Mbit/s

95th percentile per-packet one-way delay: 229.502 ms

Loss rate: 1.66%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 13:05:07

End at: 2018-01-26 13:05:37

Below is generated by plot.py at 2018-01-26 15:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 537.87 Mbit/s

95th percentile per-packet one-way delay: 228.692 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 487.08 Mbit/s

95th percentile per-packet one-way delay: 228.748 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 72.19 Mbit/s

95th percentile per-packet one-way delay: 228.270 ms

Loss rate: 0.64%

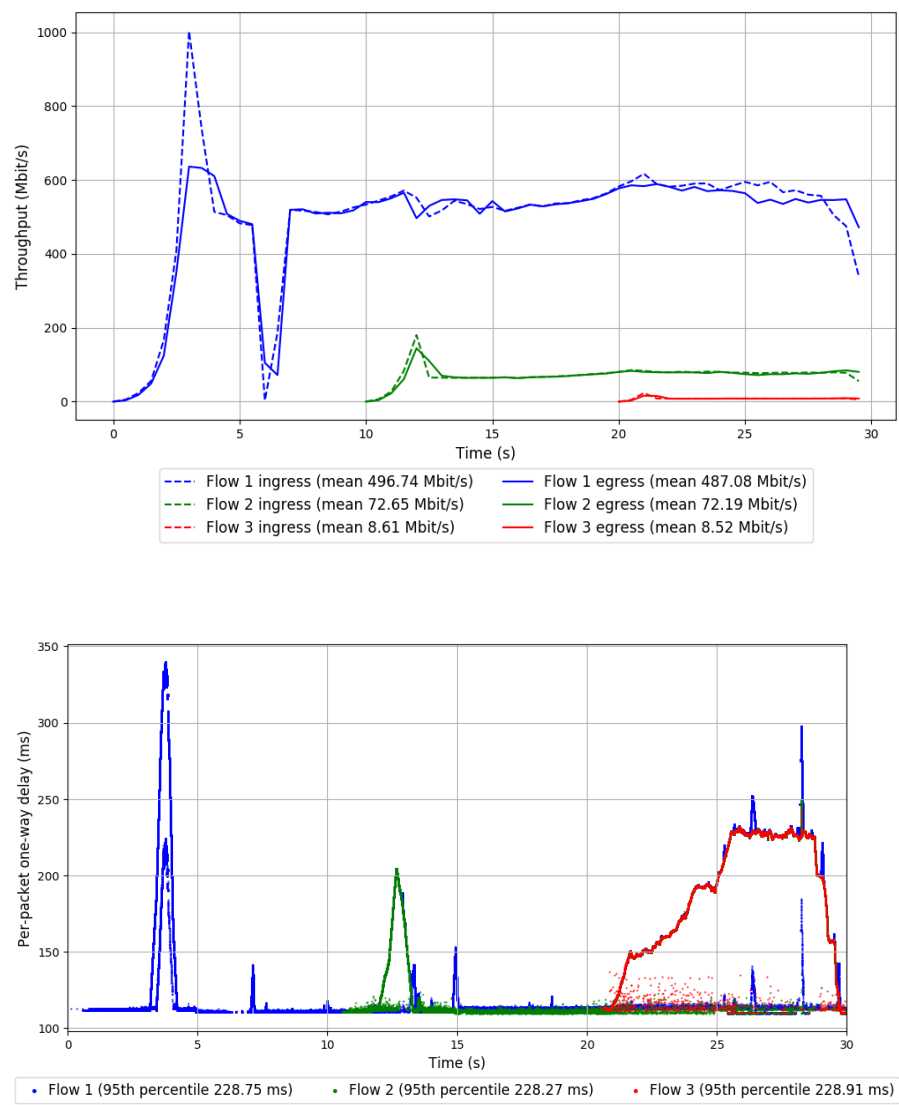
-- Flow 3:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 228.912 ms

Loss rate: 1.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 13:21:03

End at: 2018-01-26 13:21:33

Below is generated by plot.py at 2018-01-26 15:32:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 537.37 Mbit/s

95th percentile per-packet one-way delay: 235.490 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 455.80 Mbit/s

95th percentile per-packet one-way delay: 235.426 ms

Loss rate: 2.47%

-- Flow 2:

Average throughput: 121.52 Mbit/s

95th percentile per-packet one-way delay: 235.810 ms

Loss rate: 2.58%

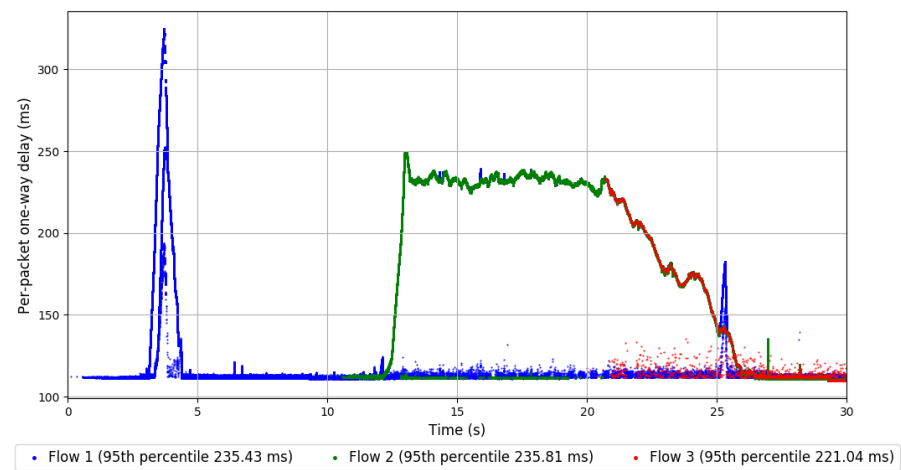
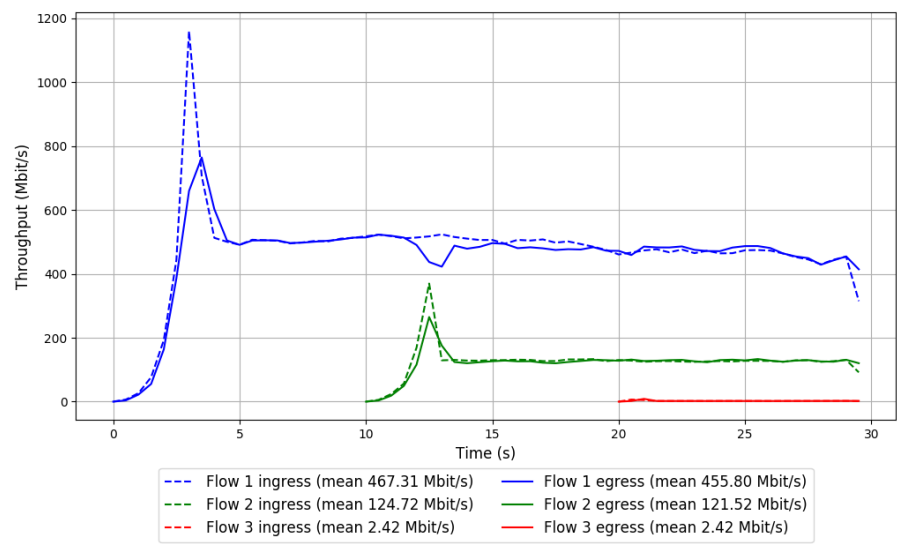
-- Flow 3:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 221.045 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 13:36:28

End at: 2018-01-26 13:36:58

Below is generated by plot.py at 2018-01-26 15:32:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.58 Mbit/s

95th percentile per-packet one-way delay: 165.576 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 481.27 Mbit/s

95th percentile per-packet one-way delay: 167.314 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 65.94 Mbit/s

95th percentile per-packet one-way delay: 154.967 ms

Loss rate: 0.00%

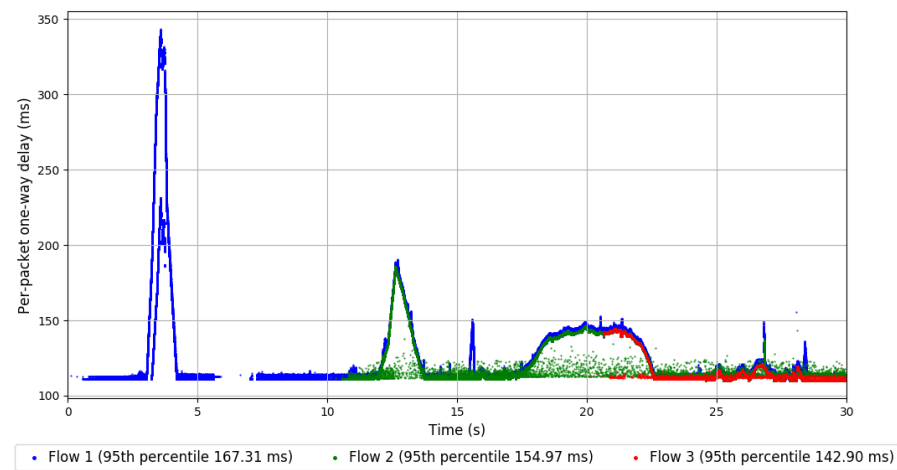
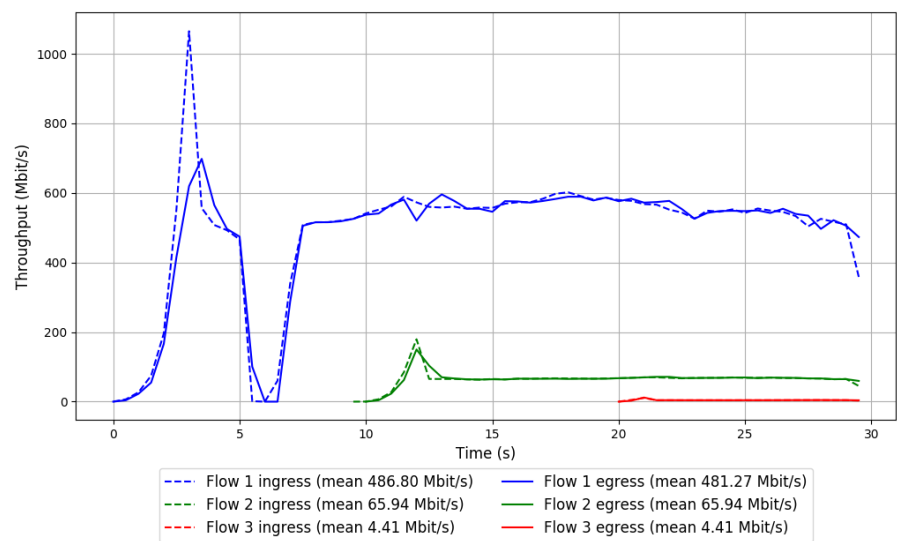
-- Flow 3:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 142.898 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 13:52:17

End at: 2018-01-26 13:52:48

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 571.67 Mbit/s

95th percentile per-packet one-way delay: 231.293 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 484.90 Mbit/s

95th percentile per-packet one-way delay: 234.941 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 128.21 Mbit/s

95th percentile per-packet one-way delay: 223.299 ms

Loss rate: 1.04%

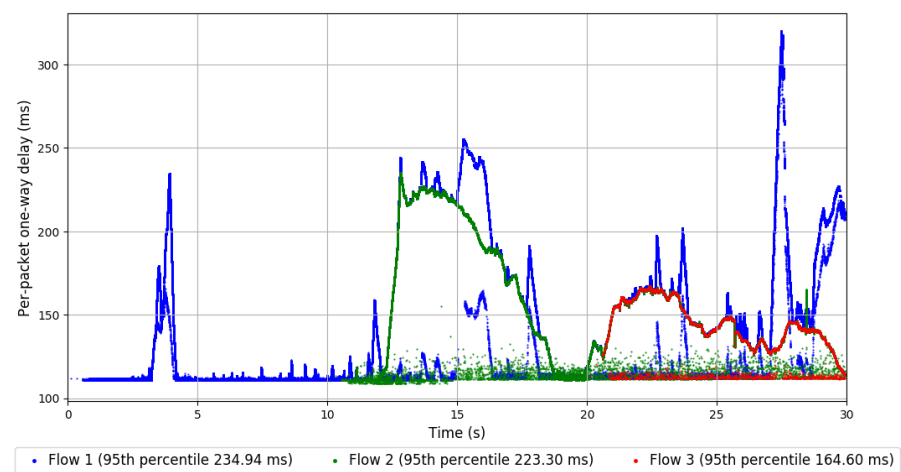
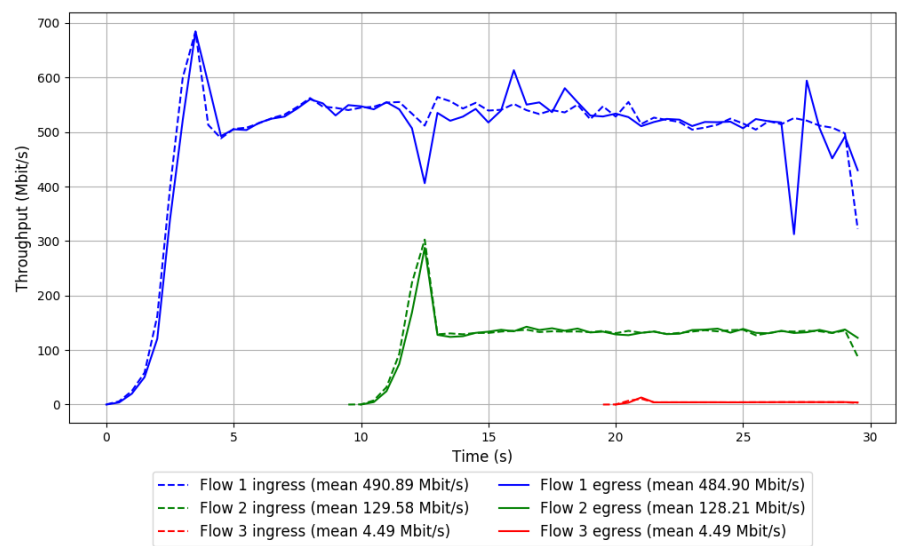
-- Flow 3:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 164.597 ms

Loss rate: 0.03%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-26 14:07:58

End at: 2018-01-26 14:08:28

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 553.82 Mbit/s

95th percentile per-packet one-way delay: 229.512 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 491.15 Mbit/s

95th percentile per-packet one-way delay: 229.493 ms

Loss rate: 2.26%

-- Flow 2:

Average throughput: 63.31 Mbit/s

95th percentile per-packet one-way delay: 229.209 ms

Loss rate: 1.41%

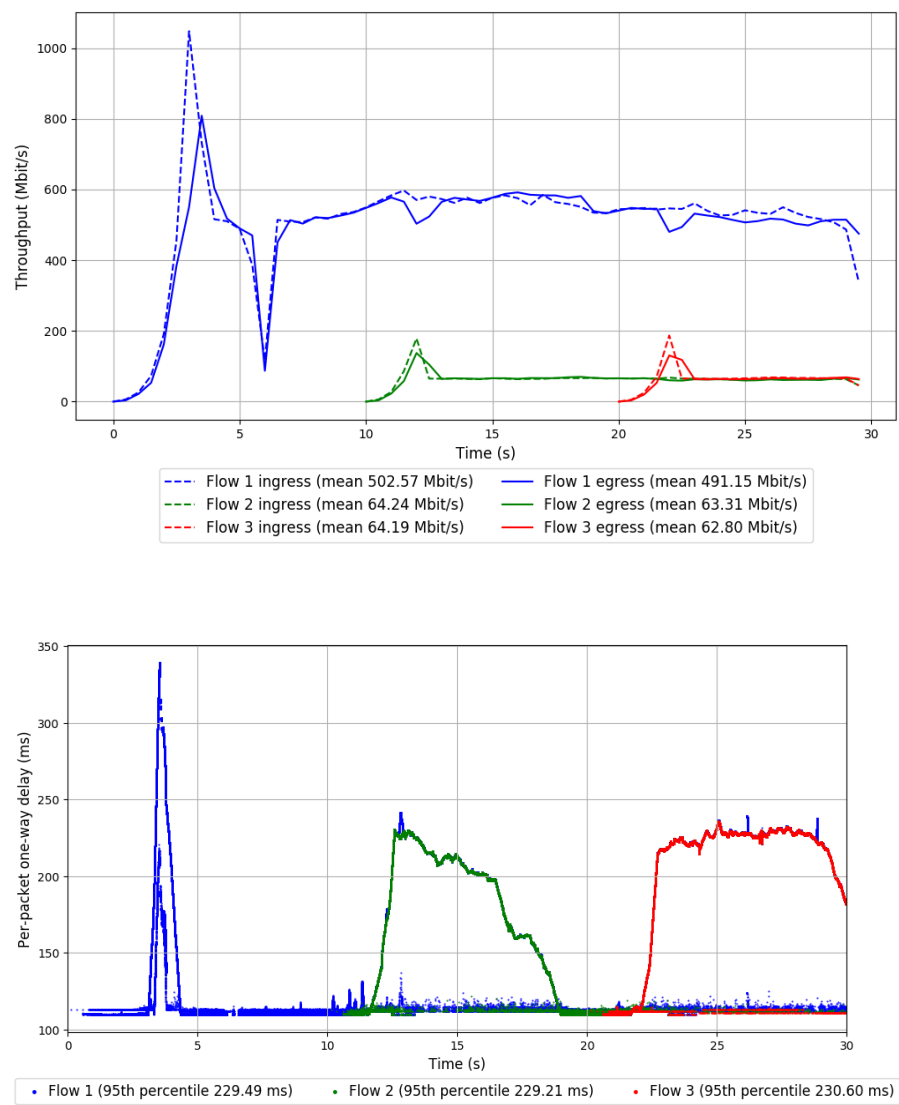
-- Flow 3:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 230.600 ms

Loss rate: 2.14%

Run 10: Report of PCC — Data Link

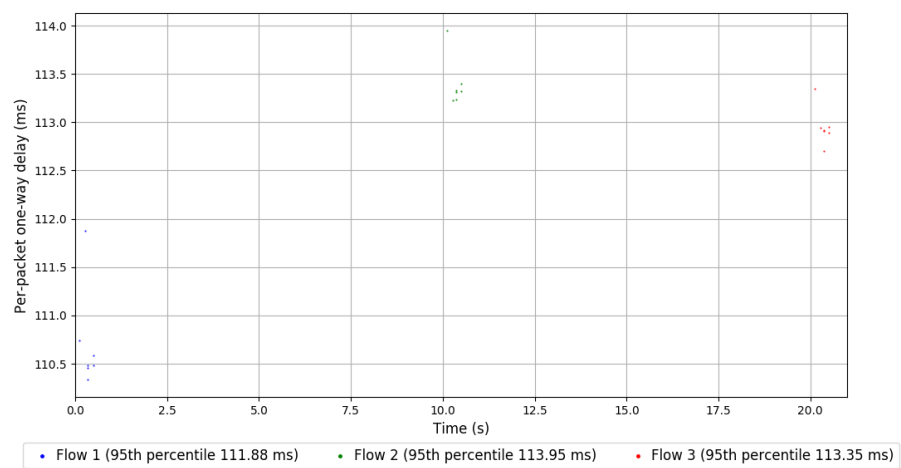
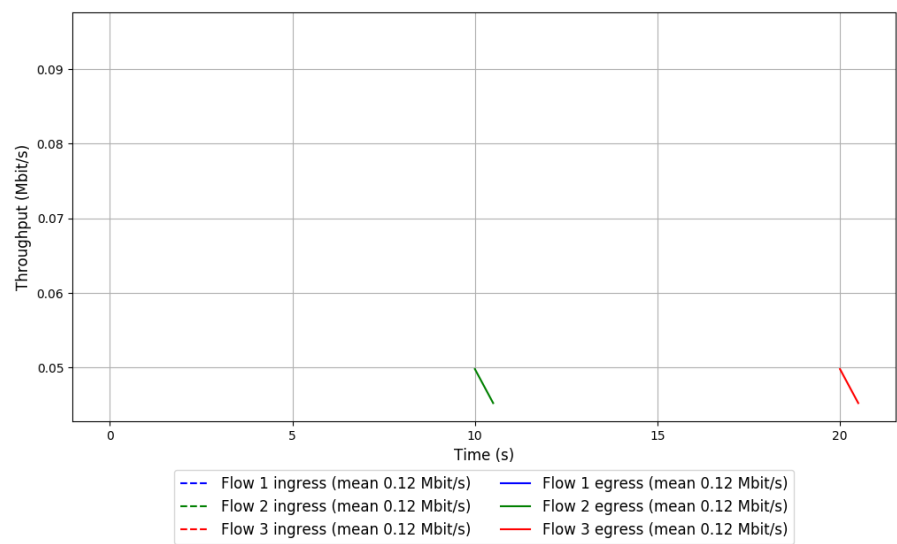


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 11:56:36

End at: 2018-01-26 11:57:06

Run 1: Report of QUIC Cubic — Data Link

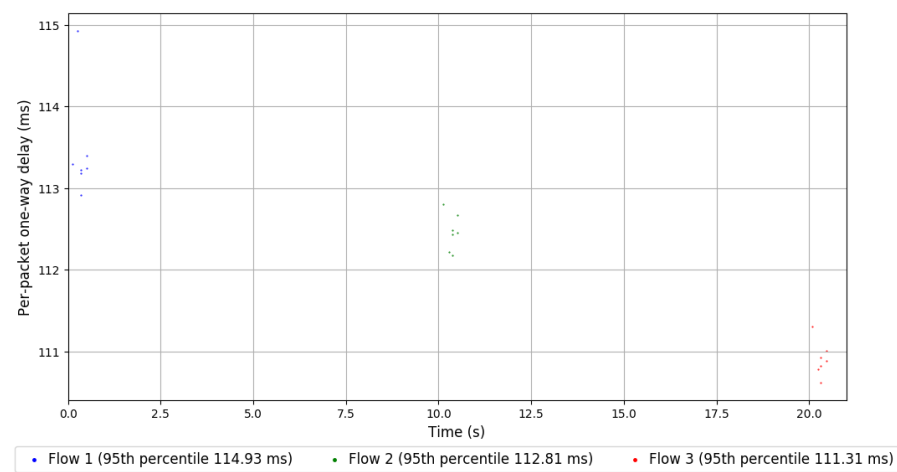
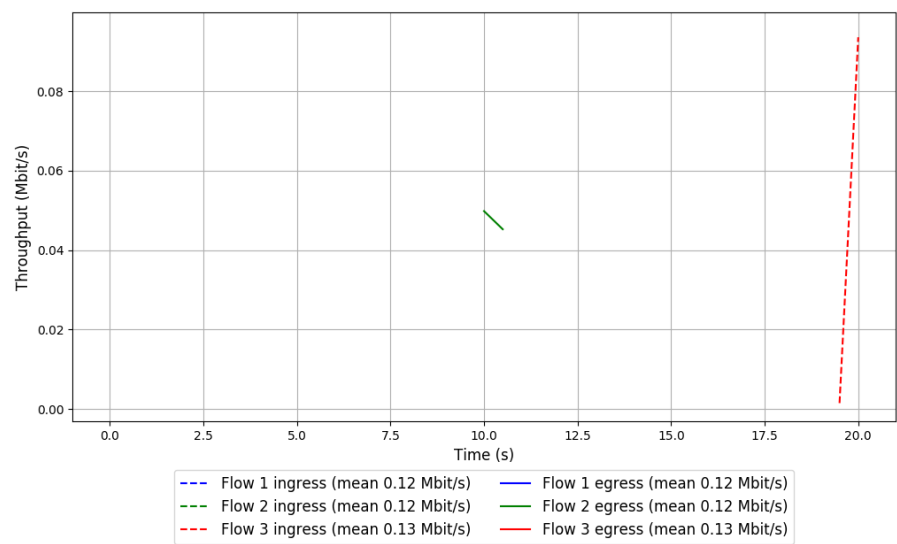


Run 2: Statistics of QUIC Cubic

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

End at: 2018-01-26 12:12:41

Run 2: Report of QUIC Cubic — Data Link

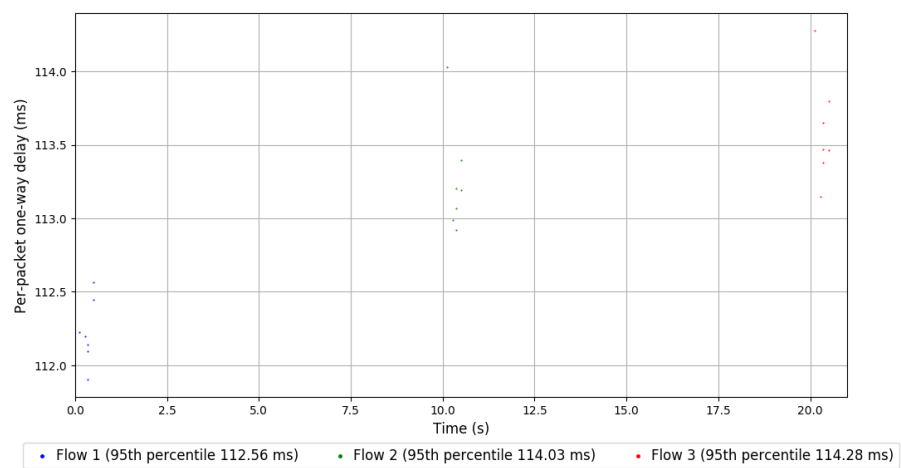
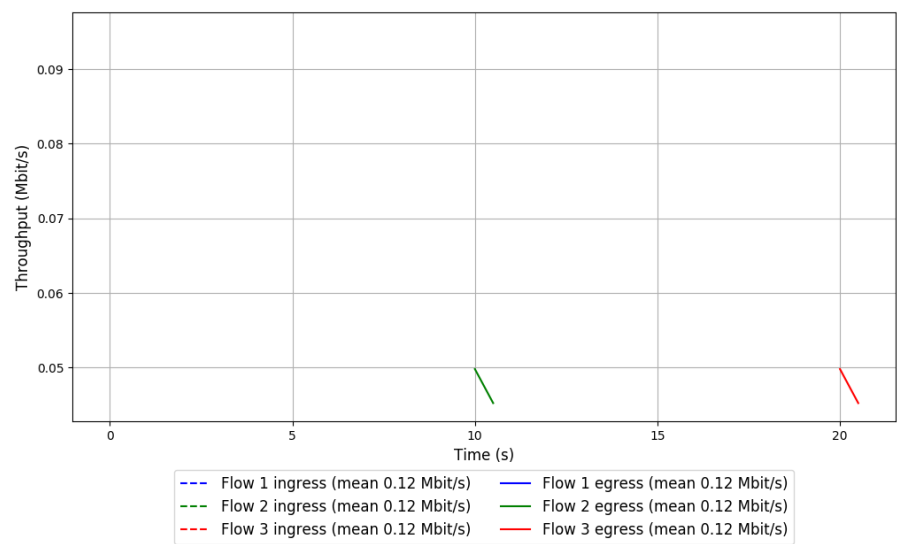


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 12:27:33

End at: 2018-01-26 12:28:03

Run 3: Report of QUIC Cubic — Data Link

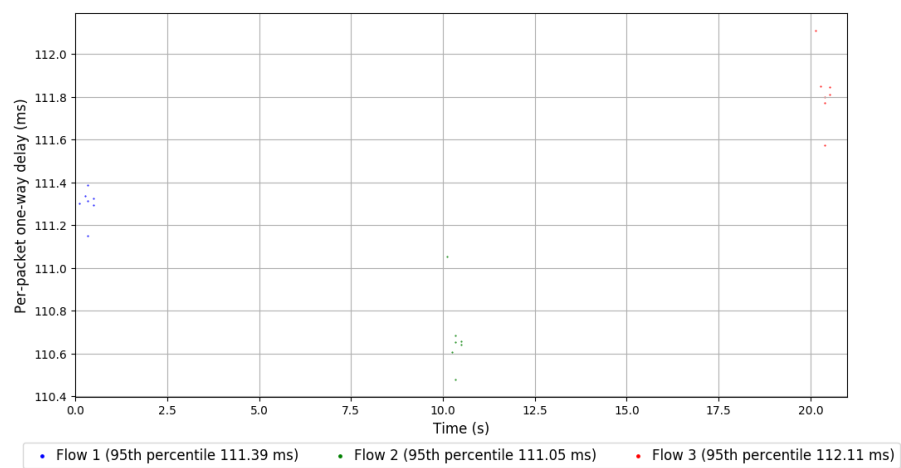
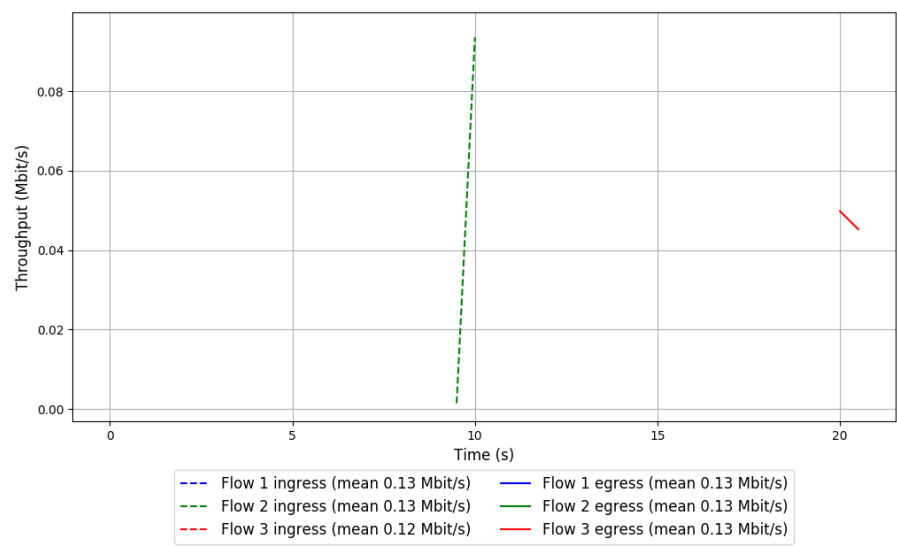


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 12:43:04

End at: 2018-01-26 12:43:34

Run 4: Report of QUIC Cubic — Data Link

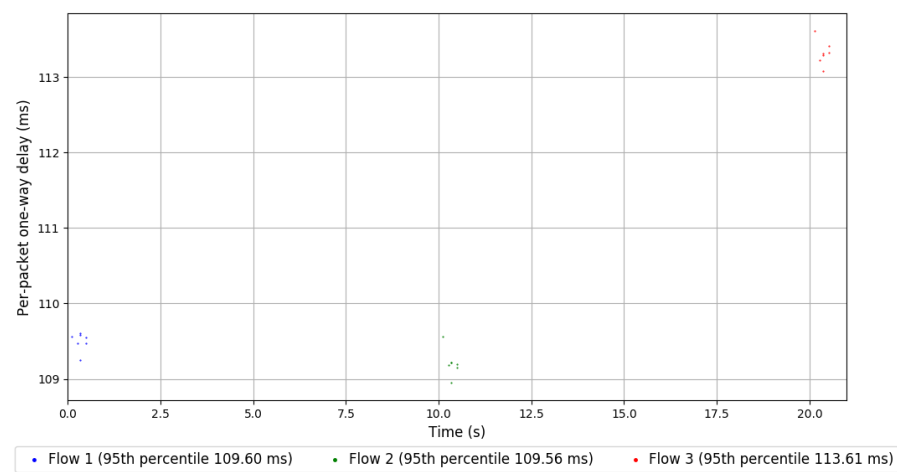
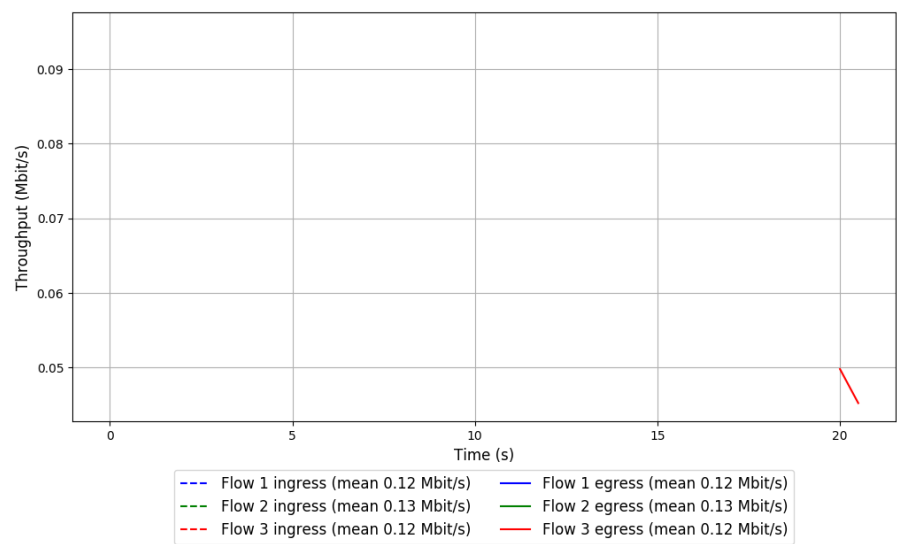


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 12:58:58

End at: 2018-01-26 12:59:28

Run 5: Report of QUIC Cubic — Data Link

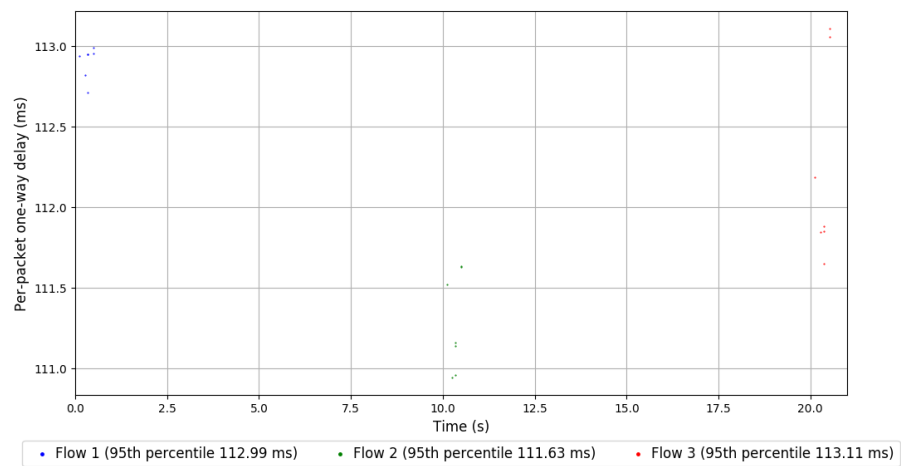
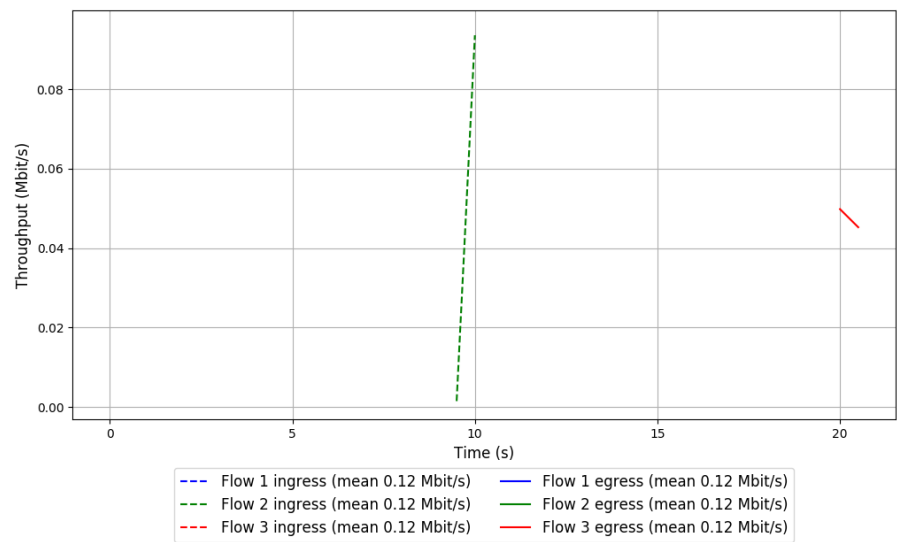


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 13:14:52

End at: 2018-01-26 13:15:22

Run 6: Report of QUIC Cubic — Data Link

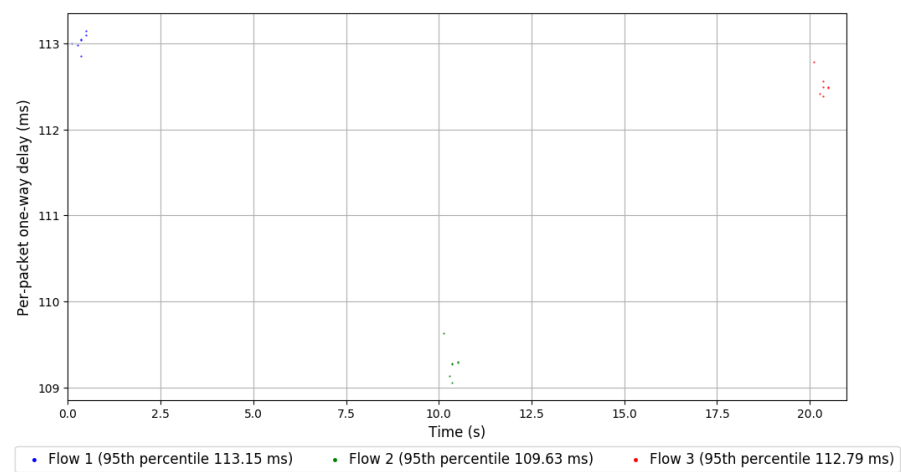
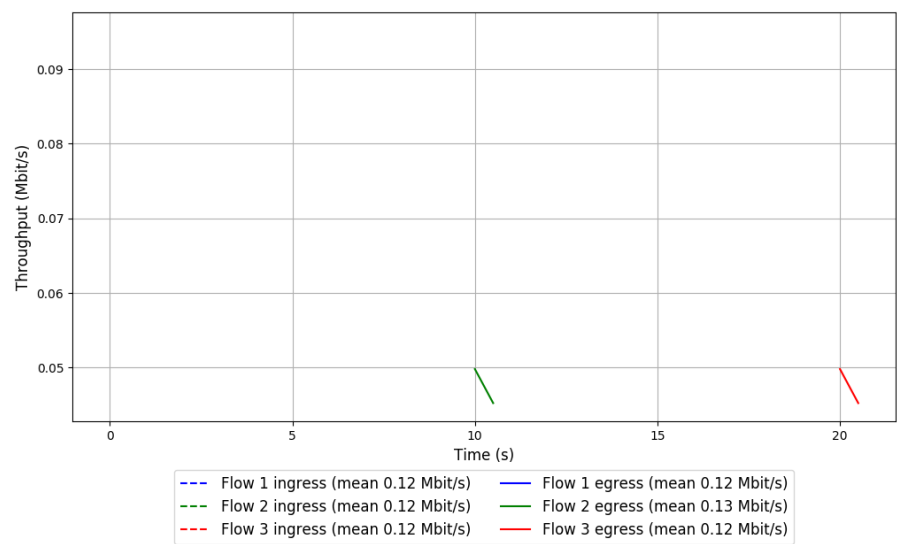


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 13:30:06

End at: 2018-01-26 13:30:36

Run 7: Report of QUIC Cubic — Data Link

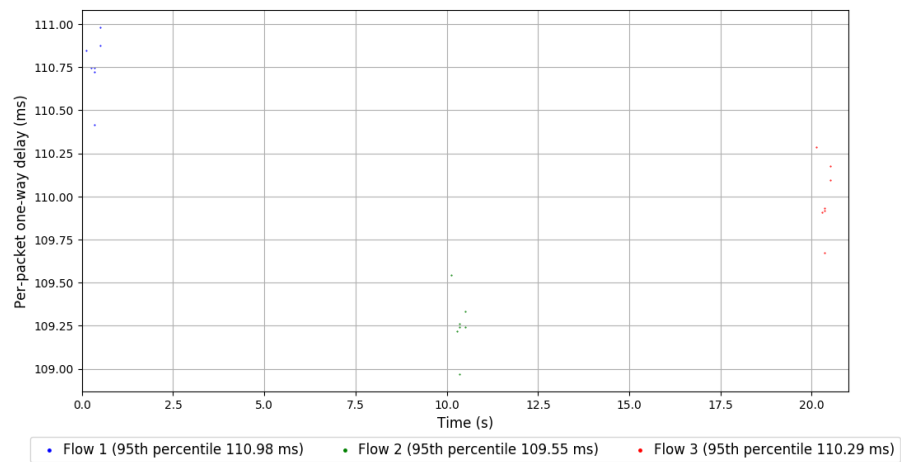
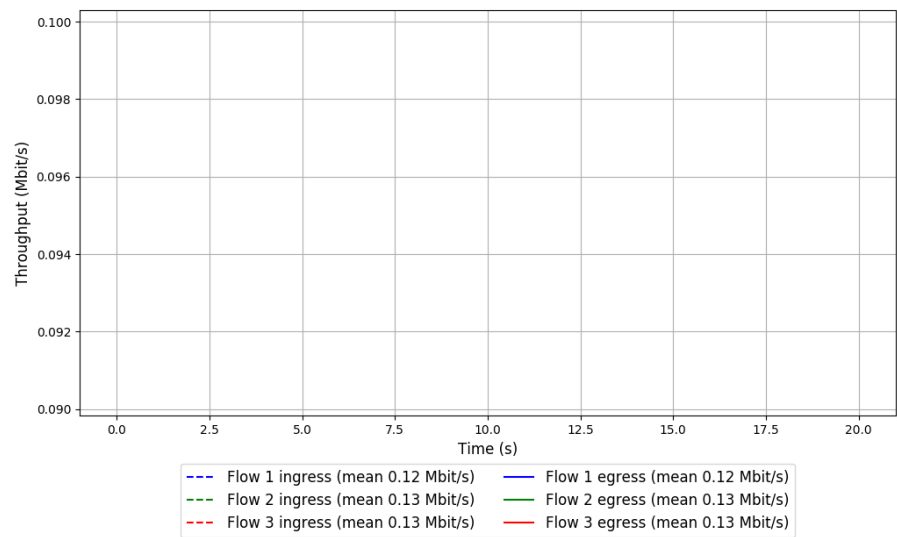


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 13:46:04

End at: 2018-01-26 13:46:34

Run 8: Report of QUIC Cubic — Data Link

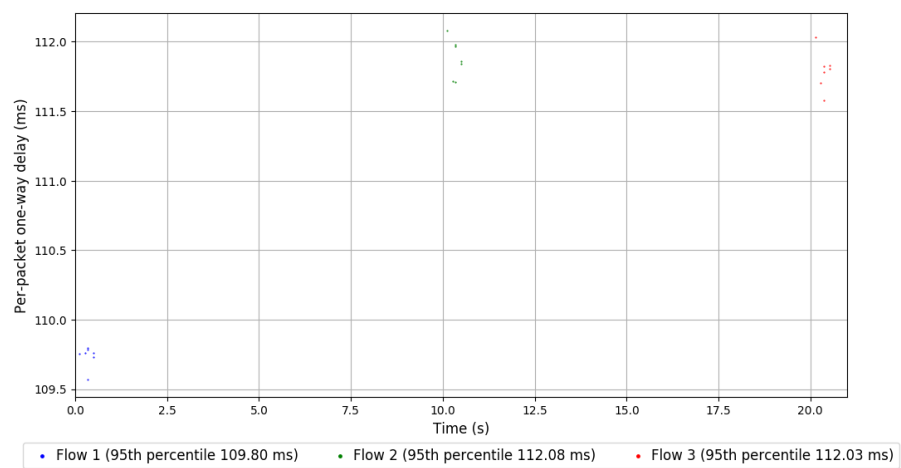
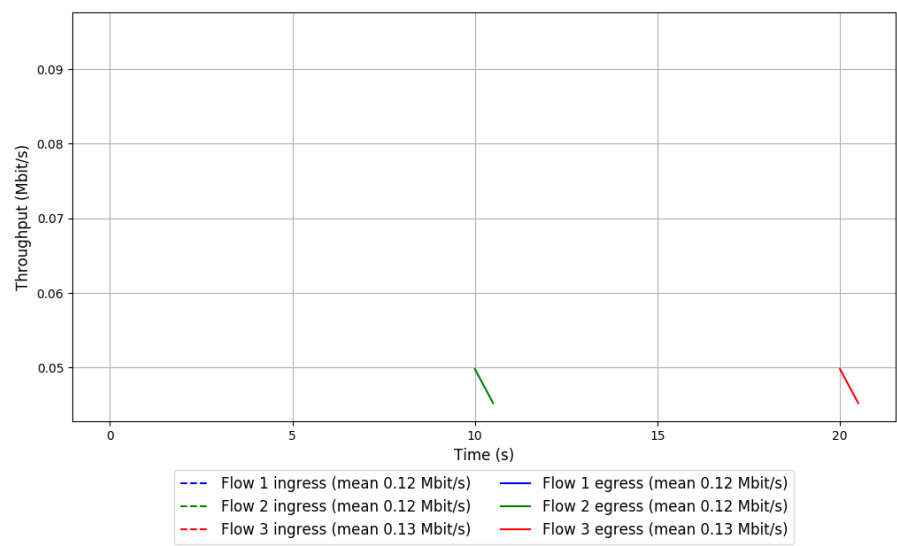


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 14:01:46

End at: 2018-01-26 14:02:16

Run 9: Report of QUIC Cubic — Data Link

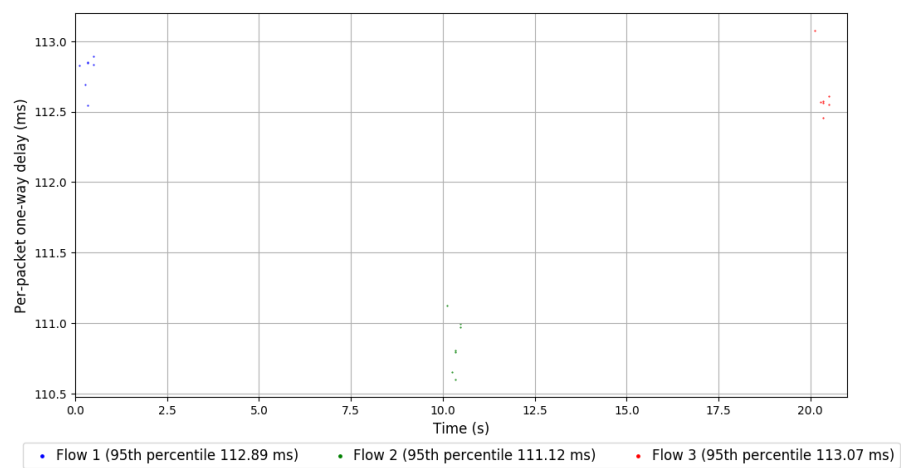
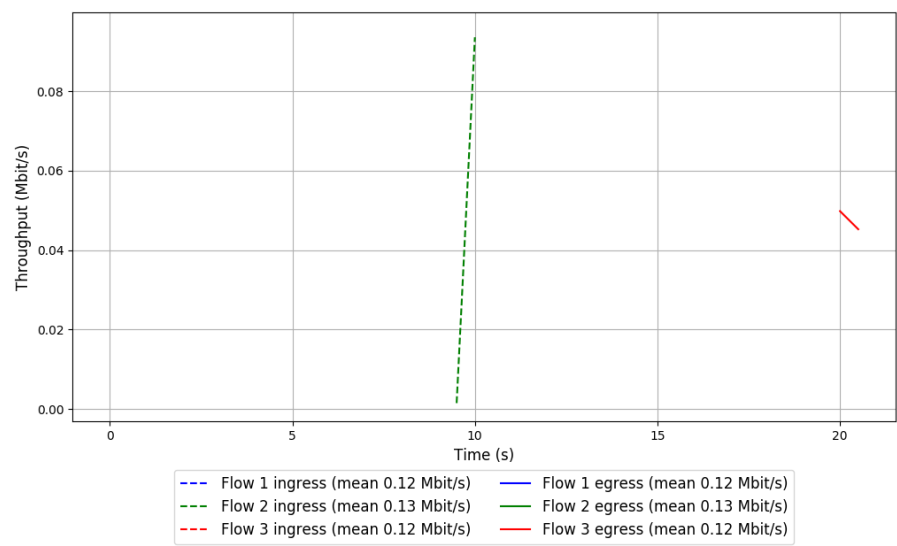


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 14:17:21

End at: 2018-01-26 14:17:51

Run 10: Report of QUIC Cubic — Data Link

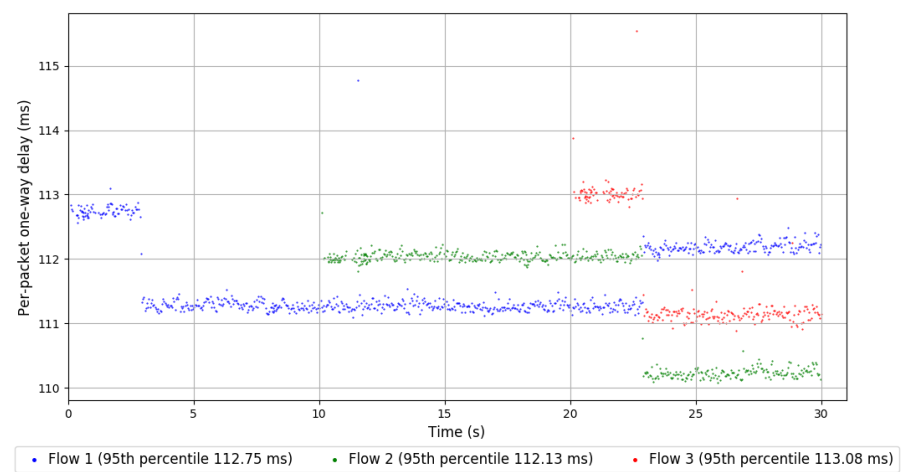
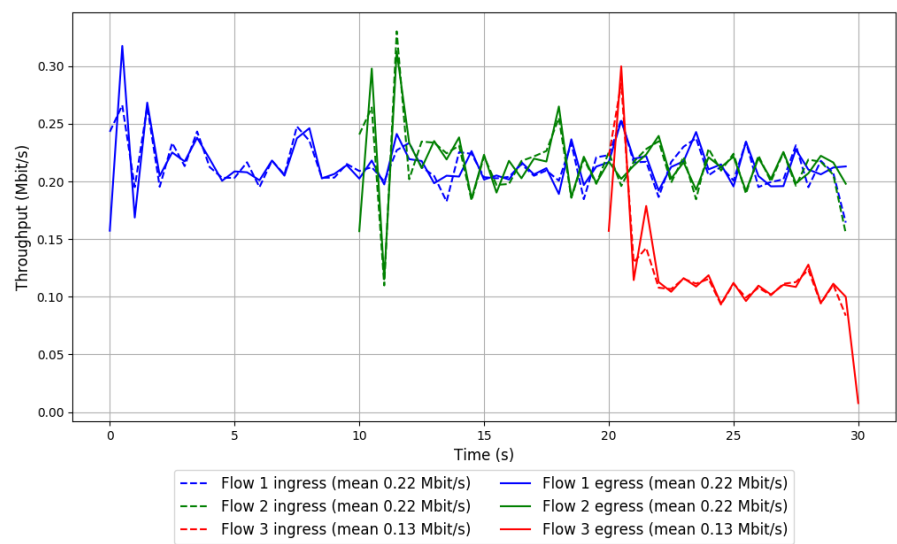


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 11:46:09
End at: 2018-01-26 11:46:39

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.745 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.128 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 113.080 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

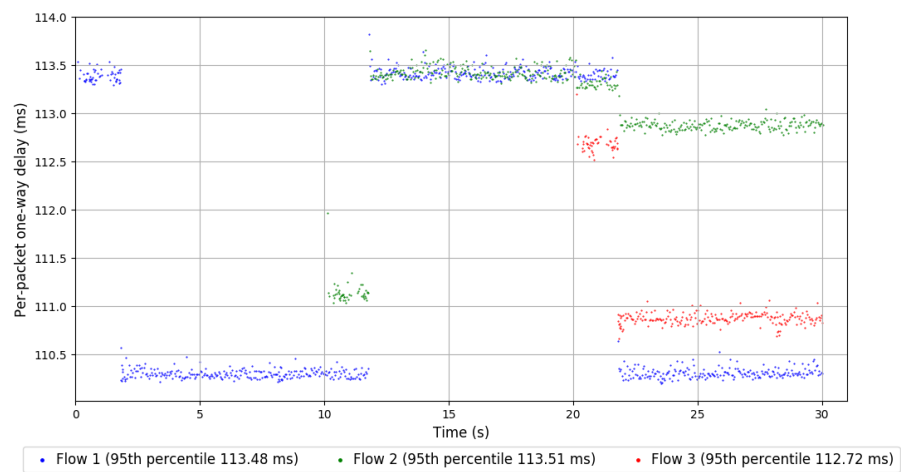
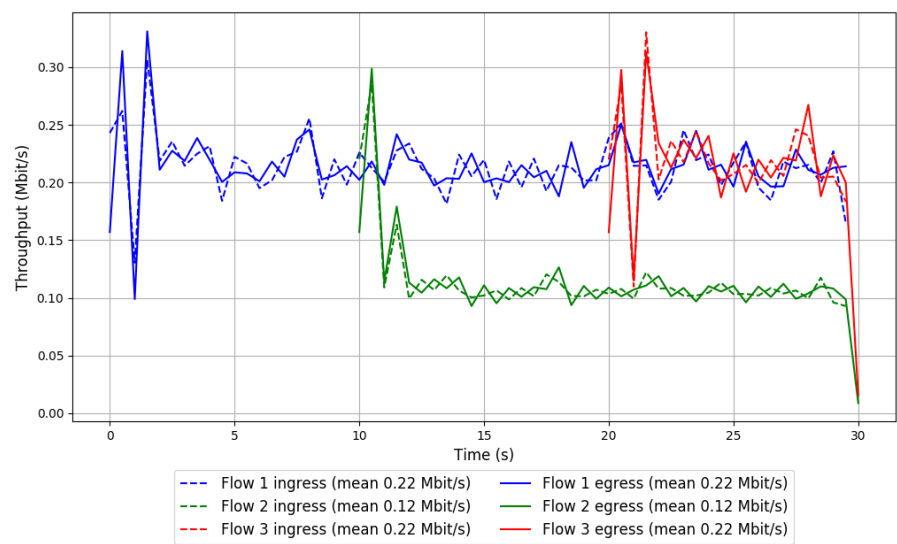


```
Run 2: Statistics of SReAM

Start at: 2018-01-26 12:02:11
End at: 2018-01-26 12:02:41

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 113.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.478 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 113.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.716 ms
Loss rate: 0.00%
```

Run 2: Report of SCSReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-26 12:17:42

End at: 2018-01-26 12:18:12

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.765 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

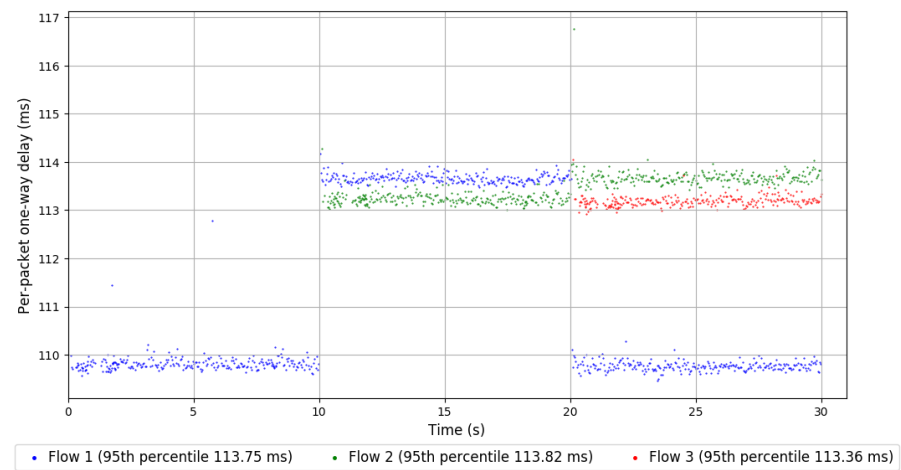
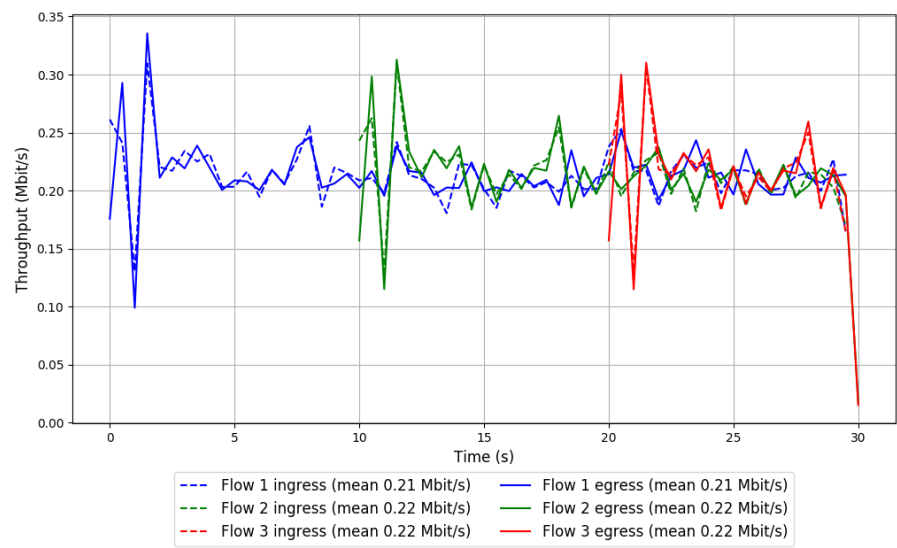
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

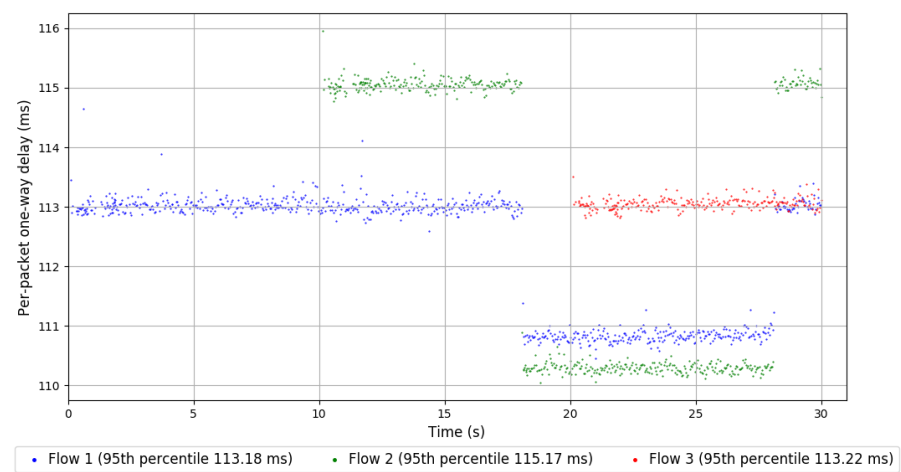
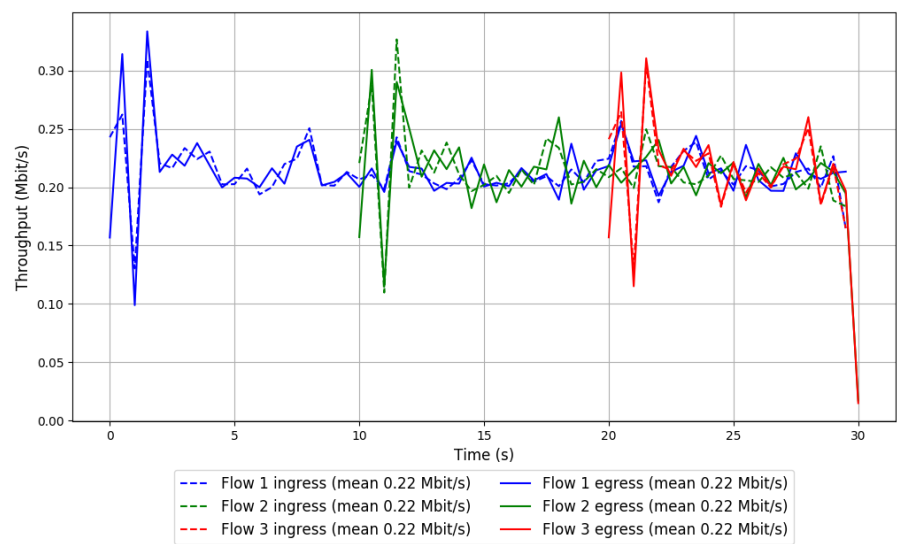


```
Run 4: Statistics of SCReAM

Start at: 2018-01-26 12:33:04
End at: 2018-01-26 12:33:34

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 115.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.184 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 115.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.216 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-26 12:48:36

End at: 2018-01-26 12:49:06

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.343 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.121 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.370 ms

Loss rate: 0.00%

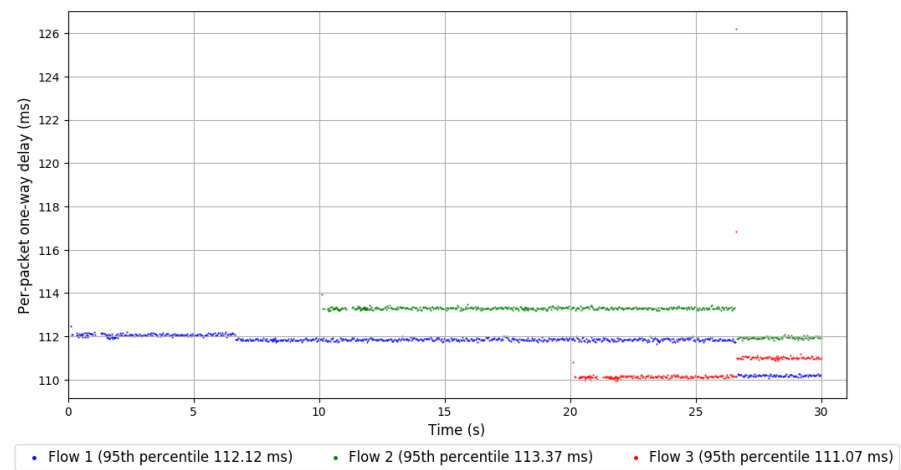
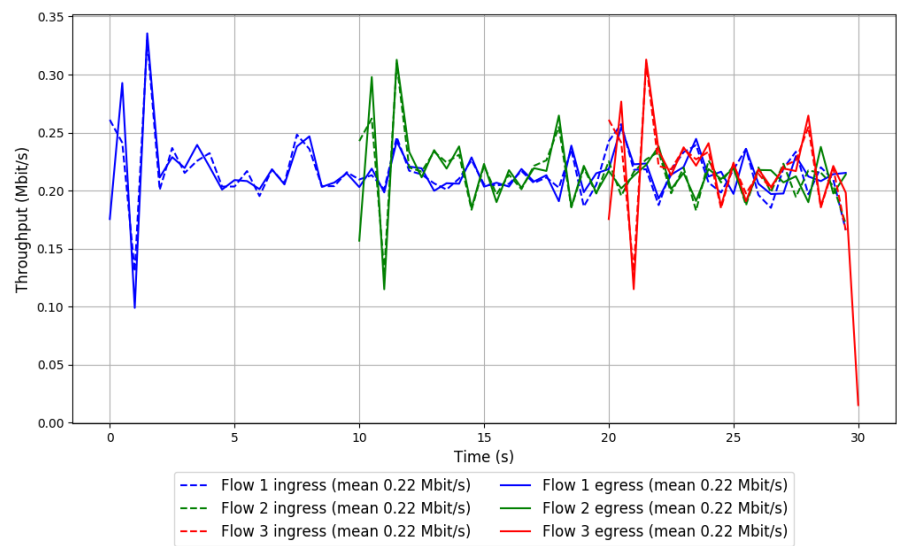
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.067 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-26 13:04:21

End at: 2018-01-26 13:04:51

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 112.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 112.129 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.373 ms

Loss rate: 0.00%

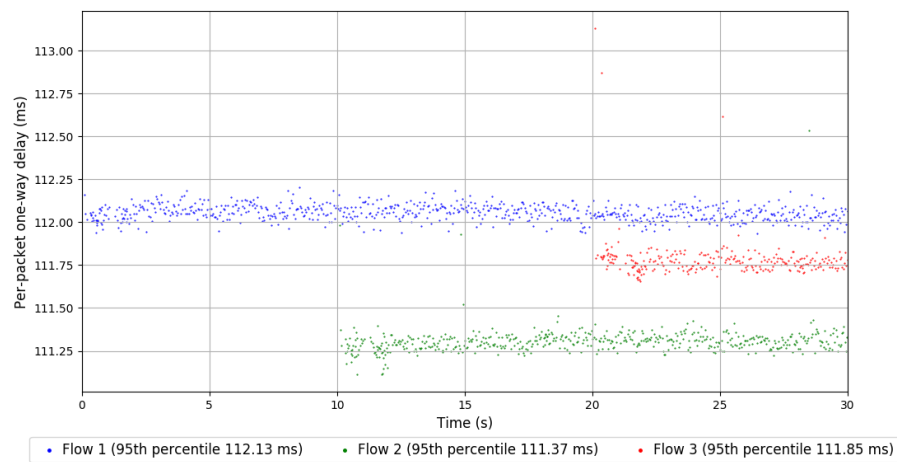
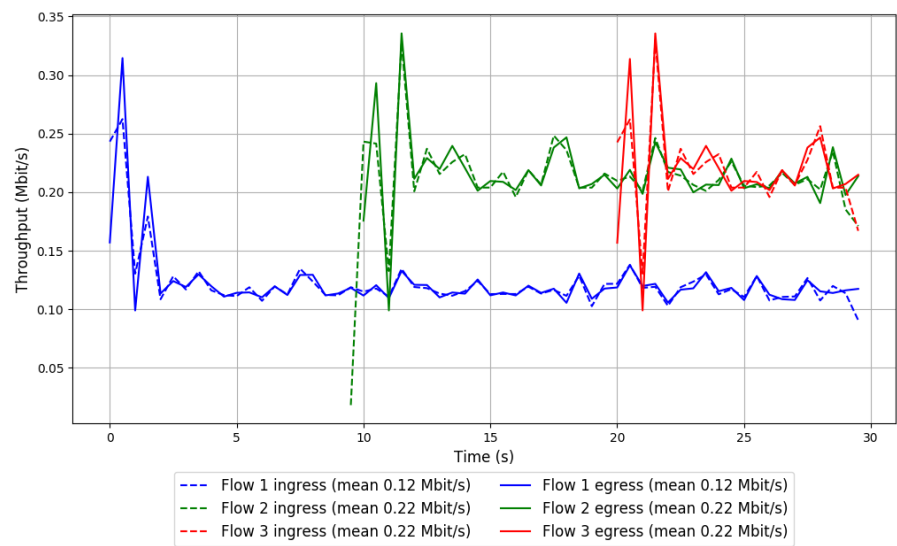
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.848 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

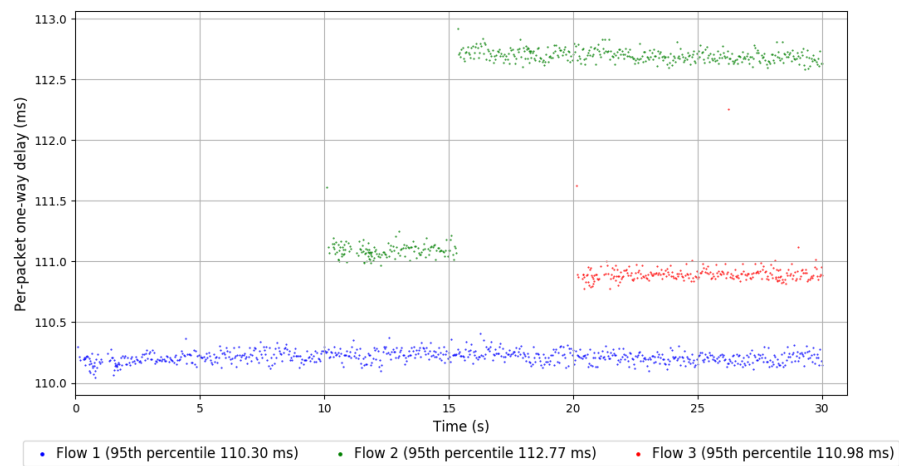
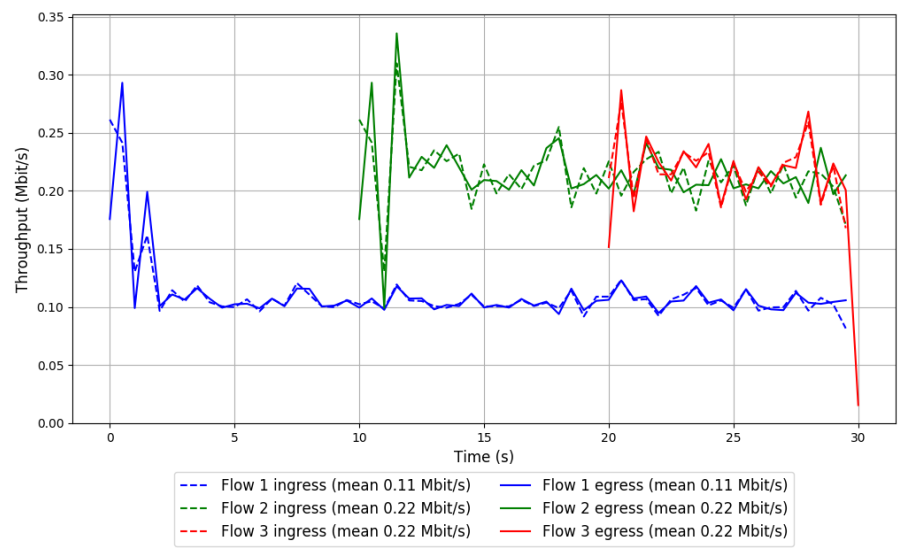


```
Run 7: Statistics of SCReAM

Start at: 2018-01-26 13:20:17
End at: 2018-01-26 13:20:47

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 112.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 110.295 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.769 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.979 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-26 13:35:42

End at: 2018-01-26 13:36:12

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 112.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.633 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.378 ms

Loss rate: 0.00%

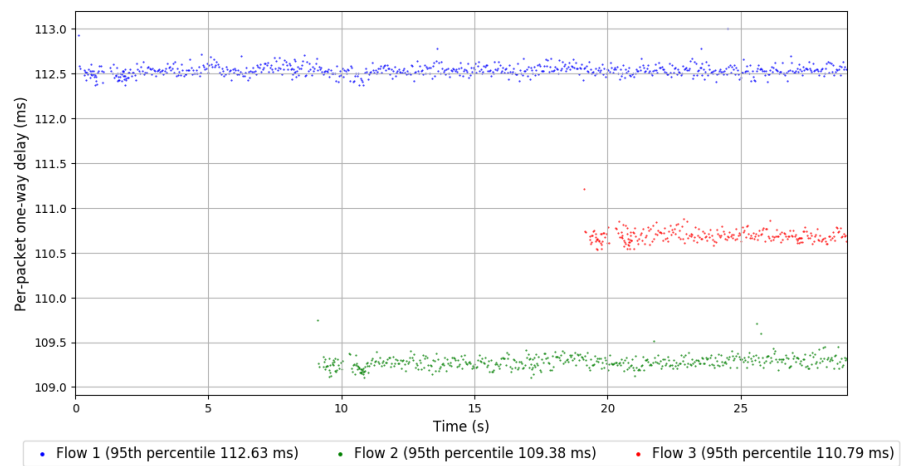
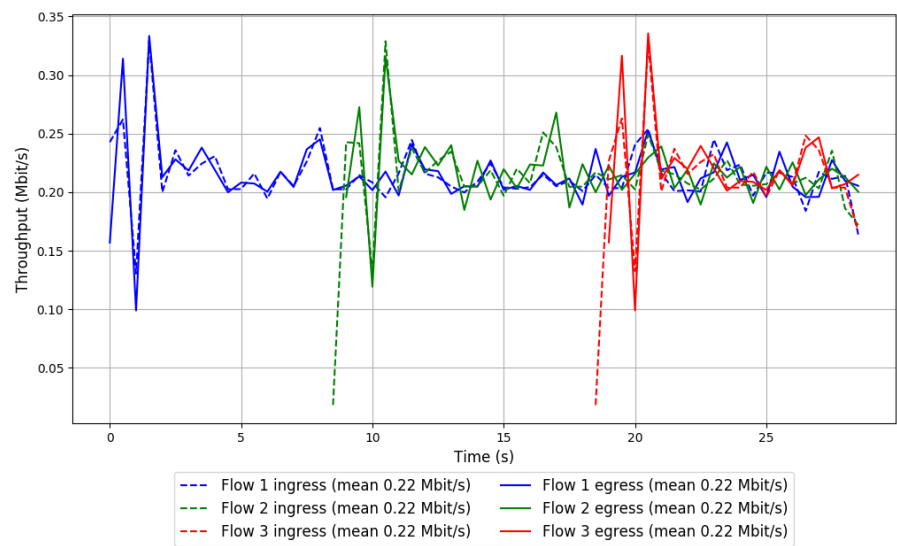
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.791 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

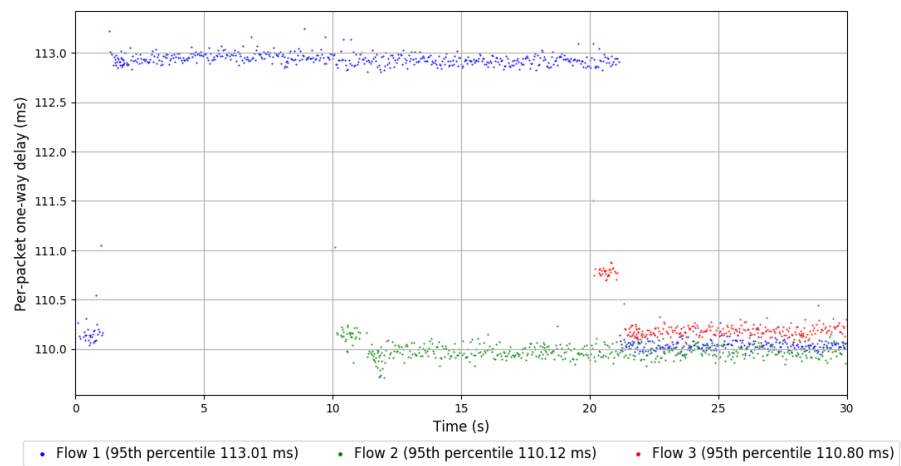
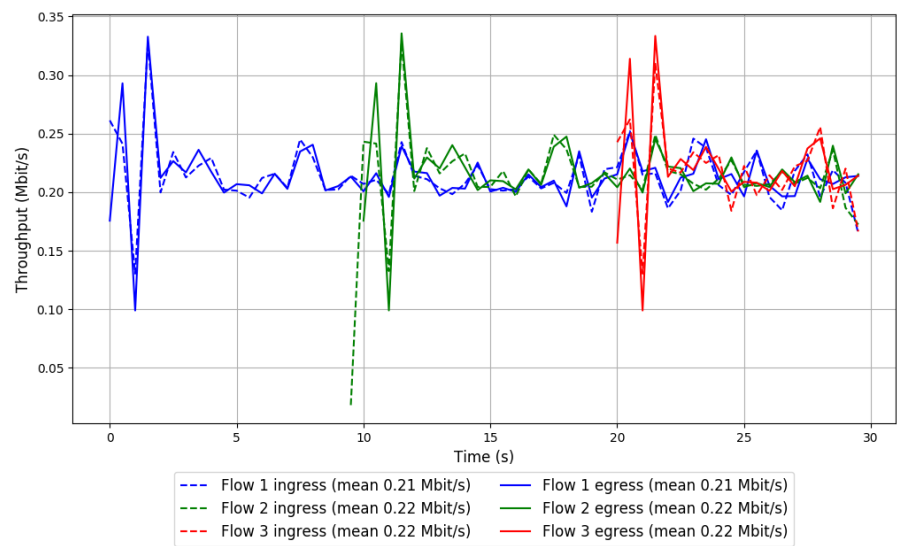


```
Run 9: Statistics of SReAM

Start at: 2018-01-26 13:51:31
End at: 2018-01-26 13:52:01

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.125 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.798 ms
Loss rate: 0.00%
```

Run 9: Report of SCRaM — Data Link

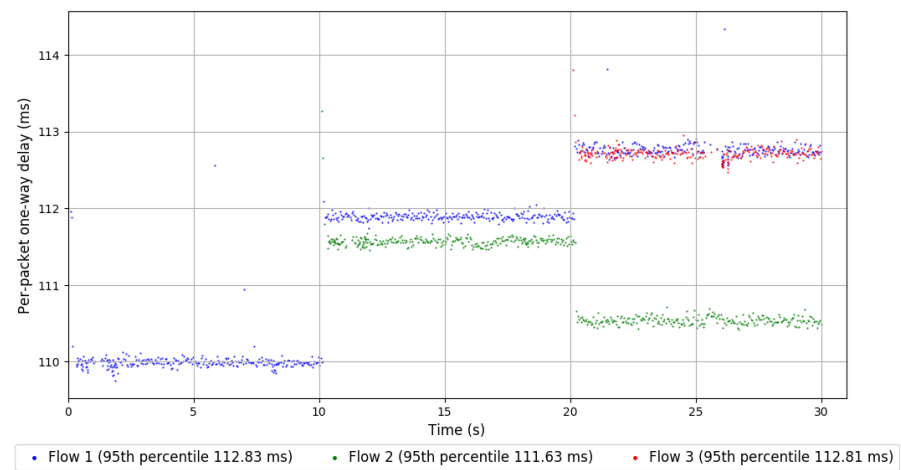
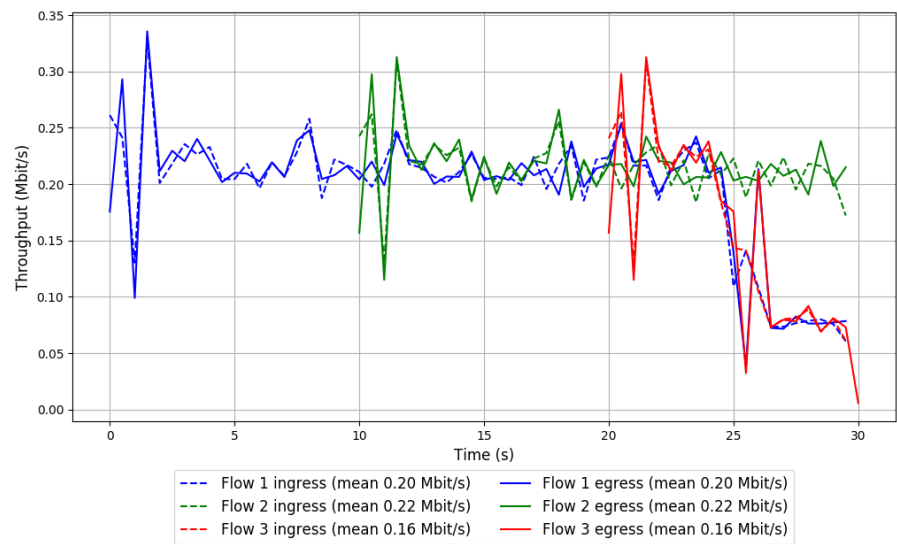


```
Run 10: Statistics of SReAM

Start at: 2018-01-26 14:07:12
End at: 2018-01-26 14:07:42

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 112.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.825 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.627 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 112.815 ms
Loss rate: 0.00%
```

Run 10: Report of SCRaM — Data Link

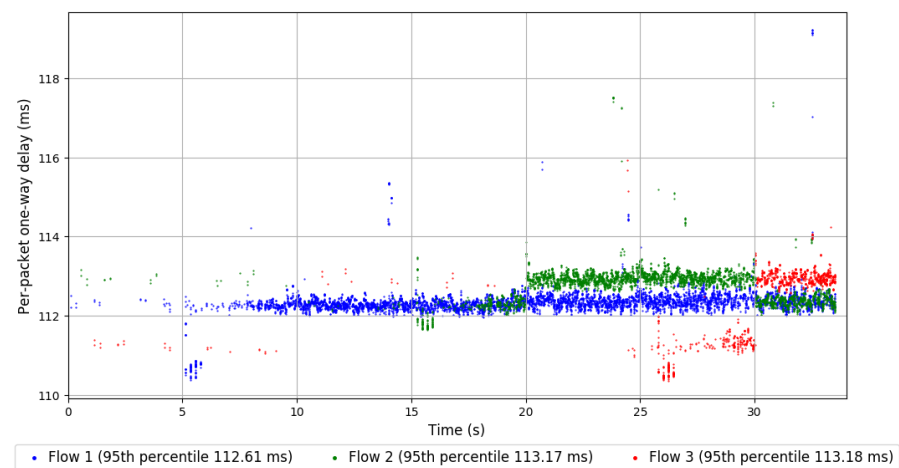
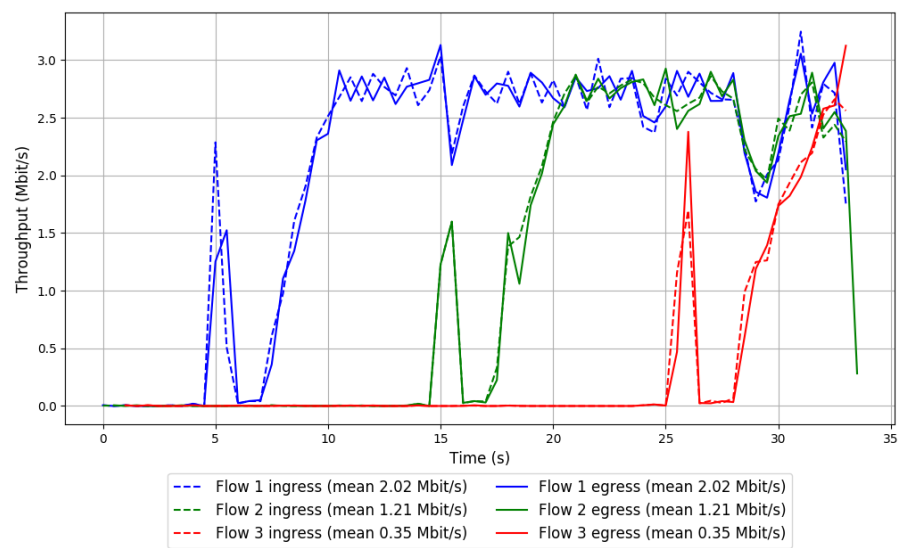


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 11:44:36
End at: 2018-01-26 11:45:06

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 113.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 112.610 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 113.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 113.176 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 12:00:37

End at: 2018-01-26 12:01:07

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 111.435 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 113.652 ms

Loss rate: 0.00%

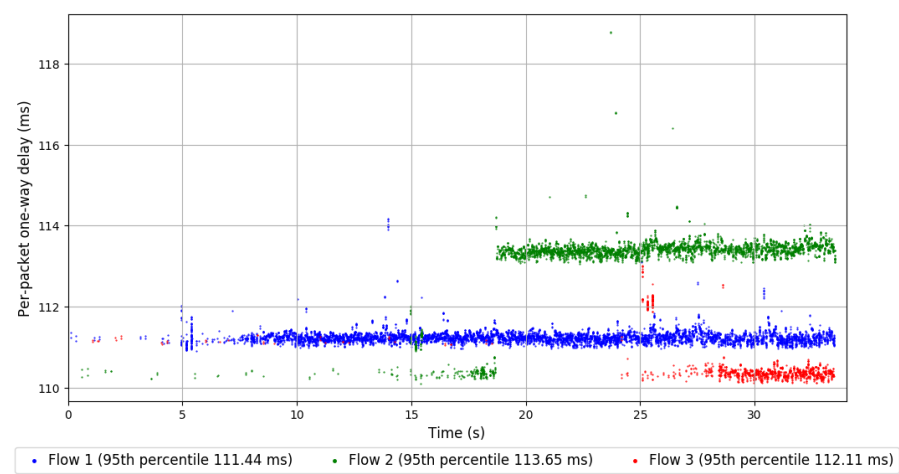
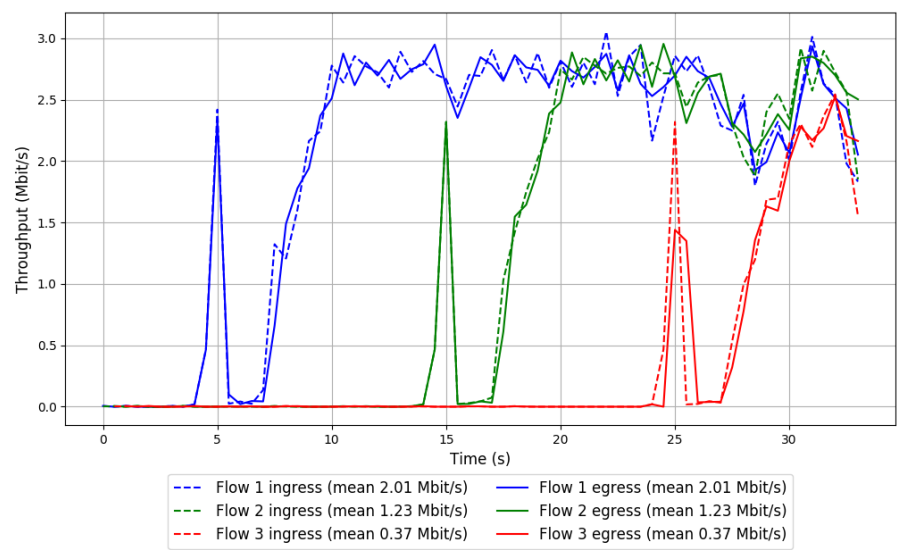
-- Flow 3:

Average throughput: 0.37 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 12:16:08

End at: 2018-01-26 12:16:38

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 115.152 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.94 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 115.299 ms

Loss rate: 0.00%

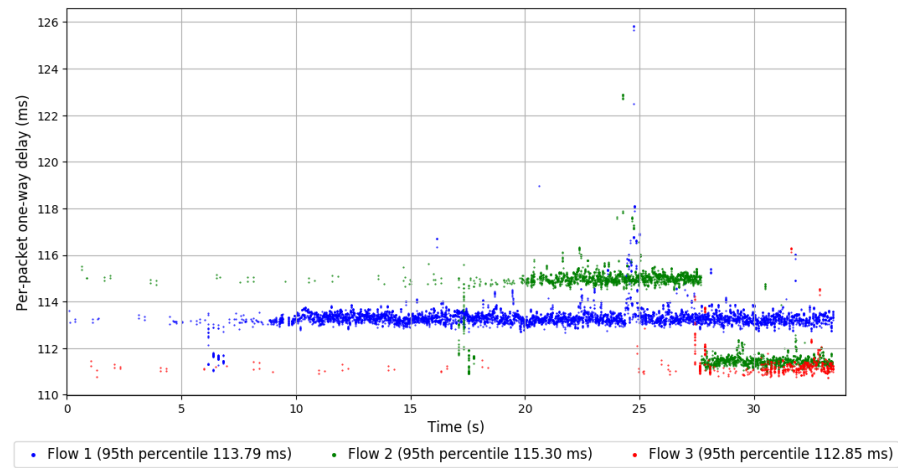
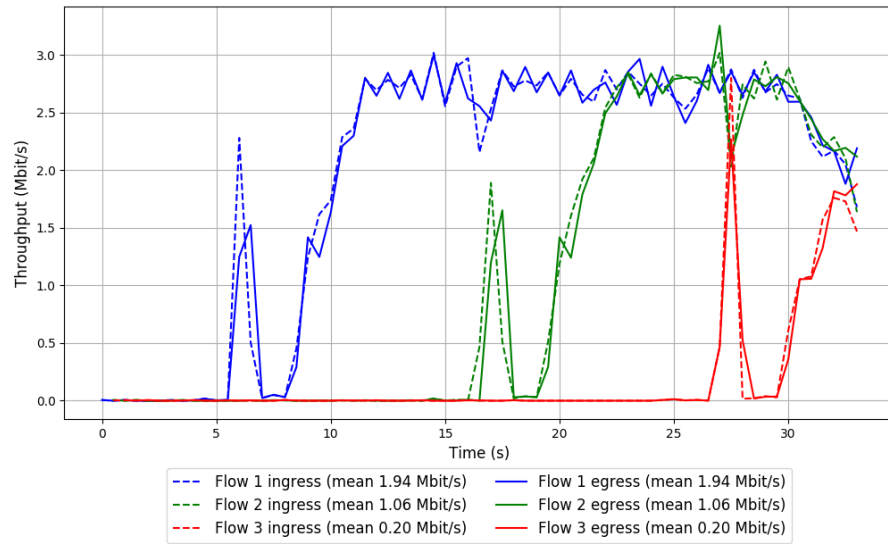
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 112.848 ms

Loss rate: 0.19%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 12:31:31

End at: 2018-01-26 12:32:01

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 113.373 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 1.89 Mbit/s

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

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 113.423 ms

Loss rate: 0.00%

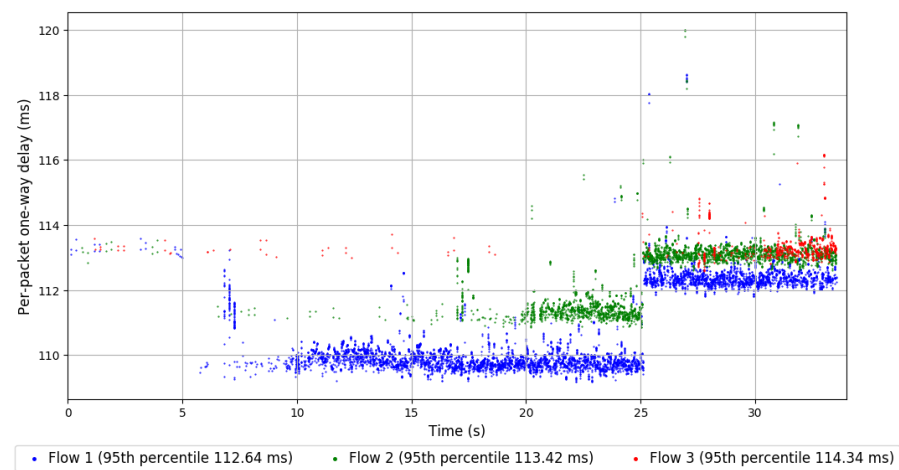
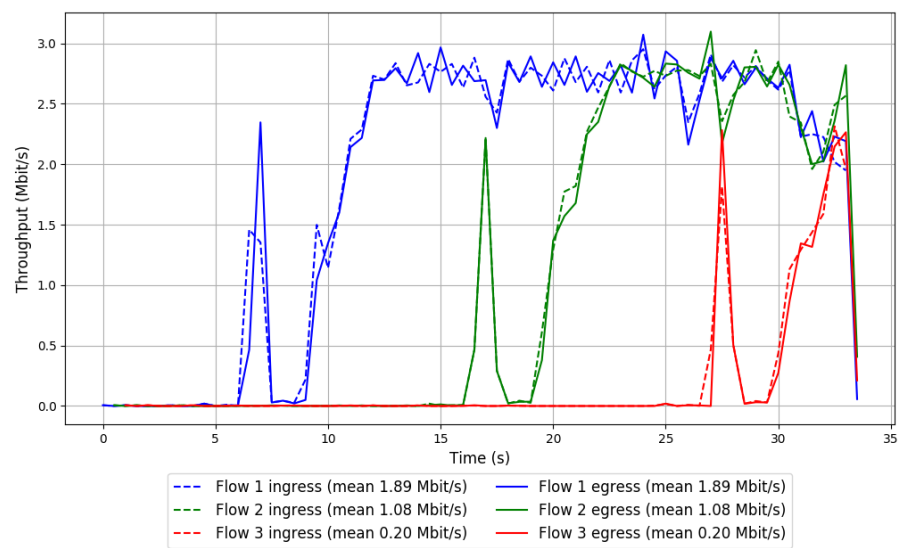
-- Flow 3:

Average throughput: 0.20 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 12:47:03

End at: 2018-01-26 12:47:33

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 111.884 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 111.094 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 111.944 ms

Loss rate: 0.00%

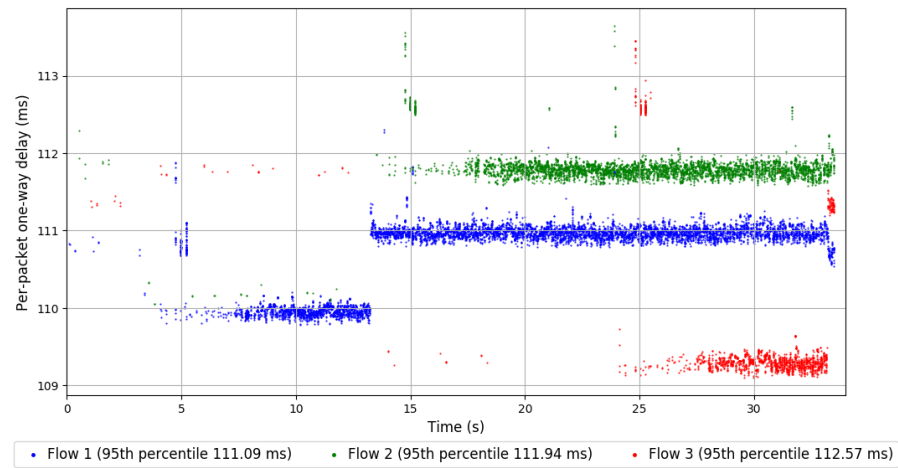
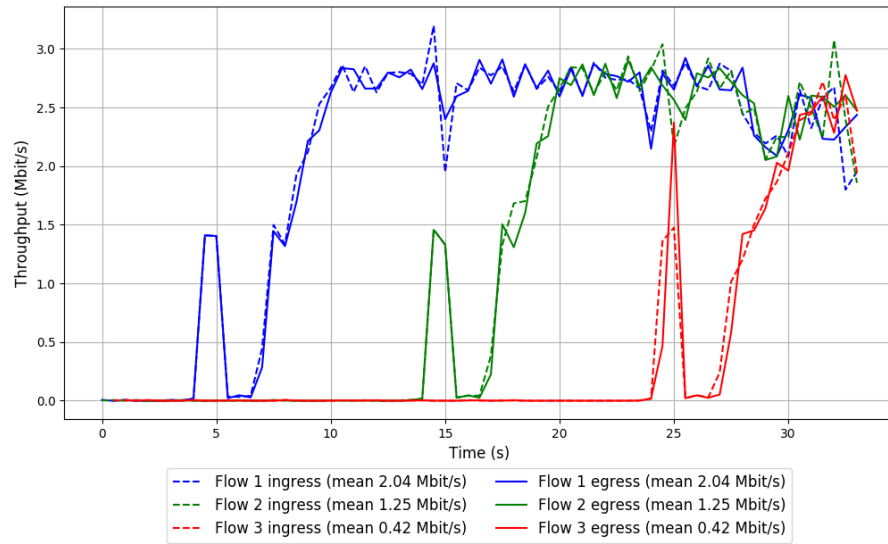
-- Flow 3:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 13:02:48

End at: 2018-01-26 13:03:18

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 113.033 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 111.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.00%

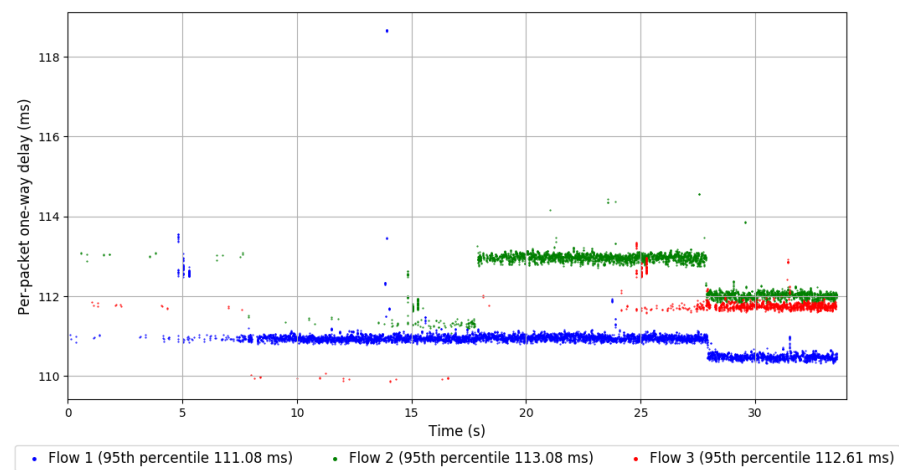
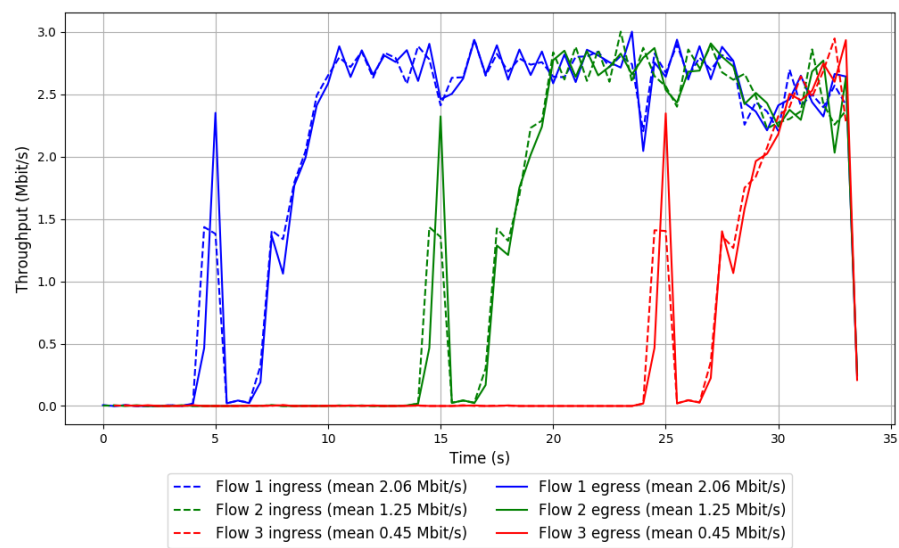
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 112.607 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 13:18:44

End at: 2018-01-26 13:19:14

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 112.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 112.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

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

Loss rate: 0.00%

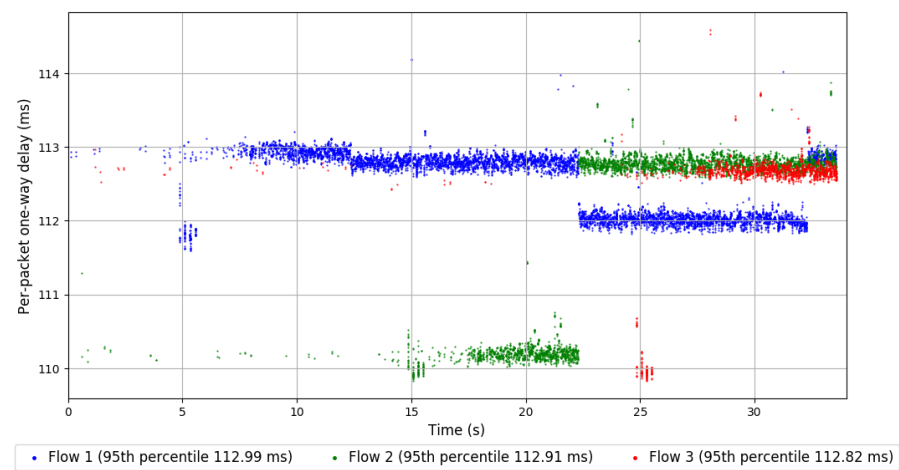
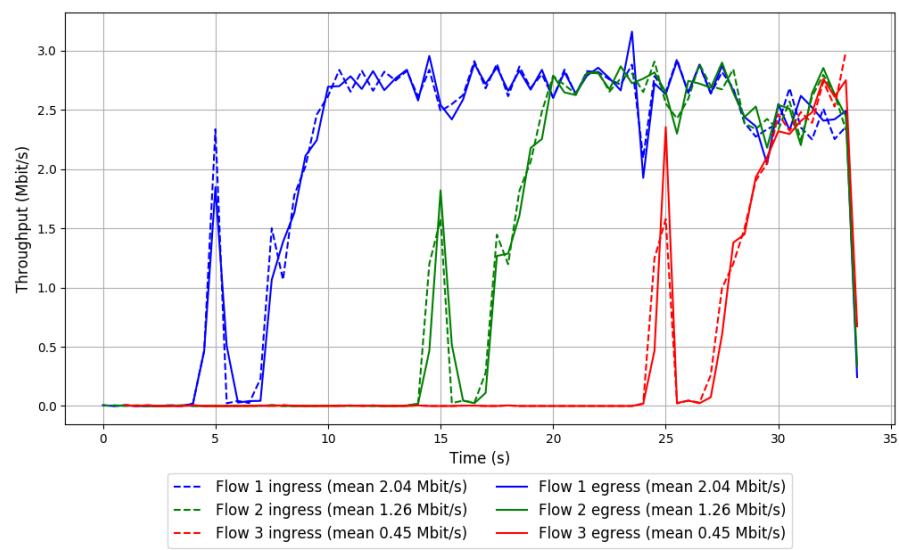
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 112.822 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 13:34:08

End at: 2018-01-26 13:34:38

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 111.038 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 110.128 ms

Loss rate: 0.00%

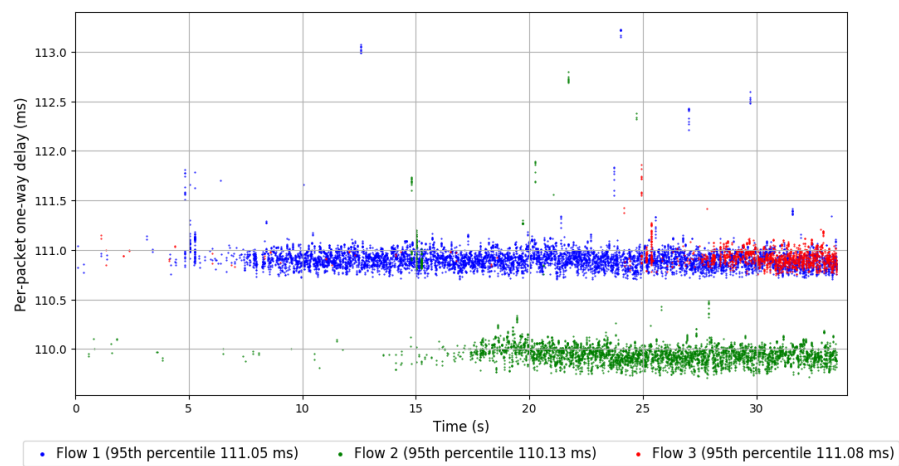
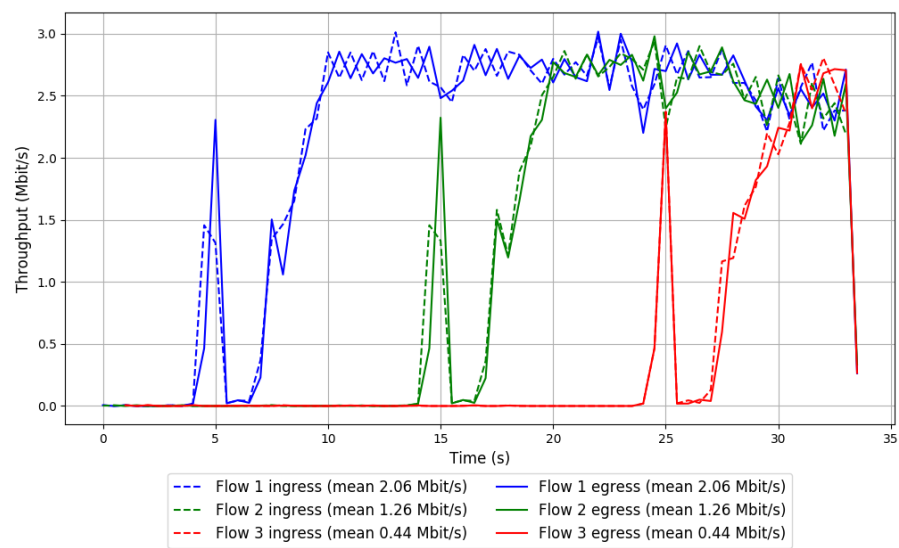
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 111.077 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 13:49:58

End at: 2018-01-26 13:50:28

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 115.411 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 115.447 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 111.123 ms

Loss rate: 0.09%

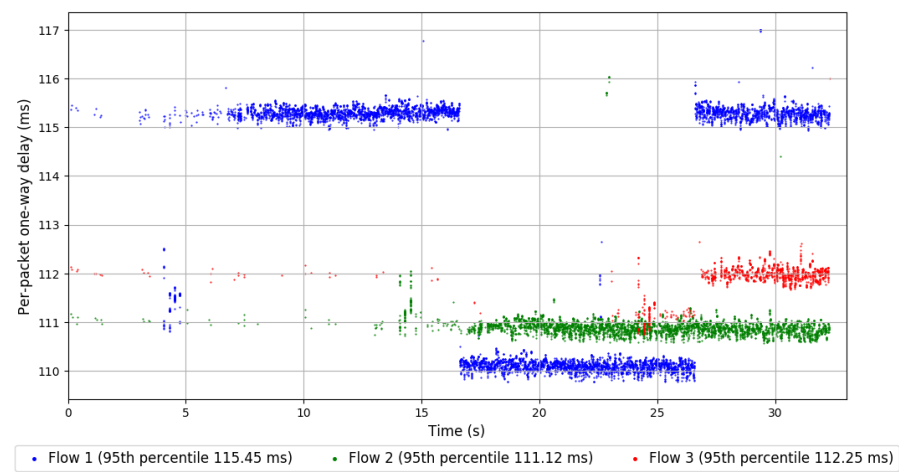
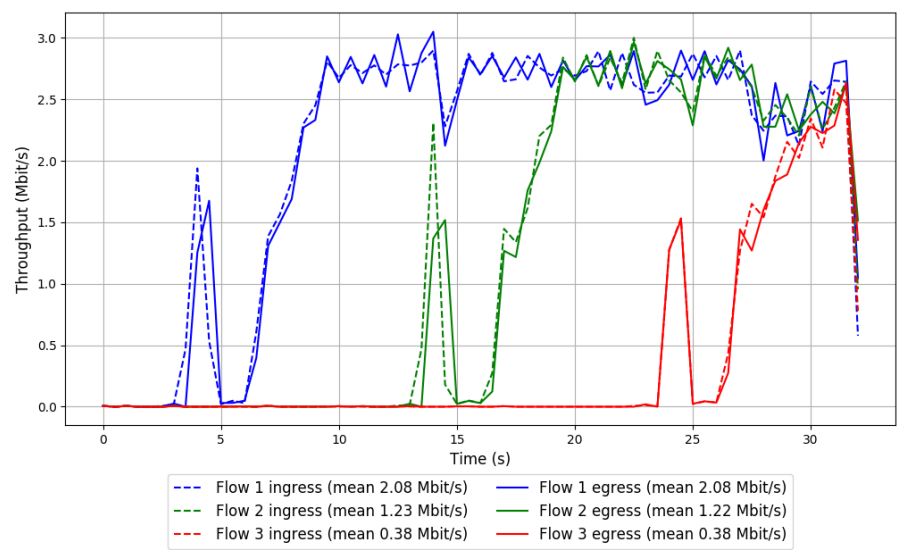
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 112.250 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 14:05:39

End at: 2018-01-26 14:06:09

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 111.875 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 111.907 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

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

Loss rate: 0.00%

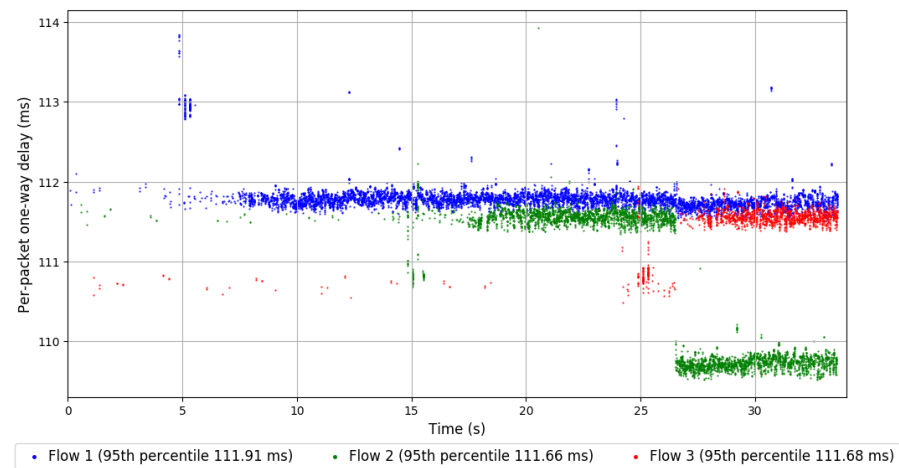
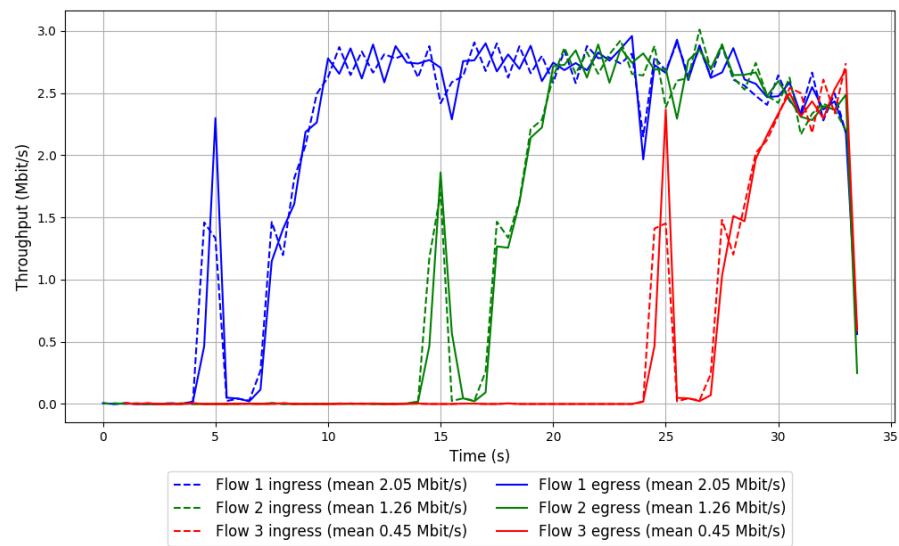
-- Flow 3:

Average throughput: 0.45 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

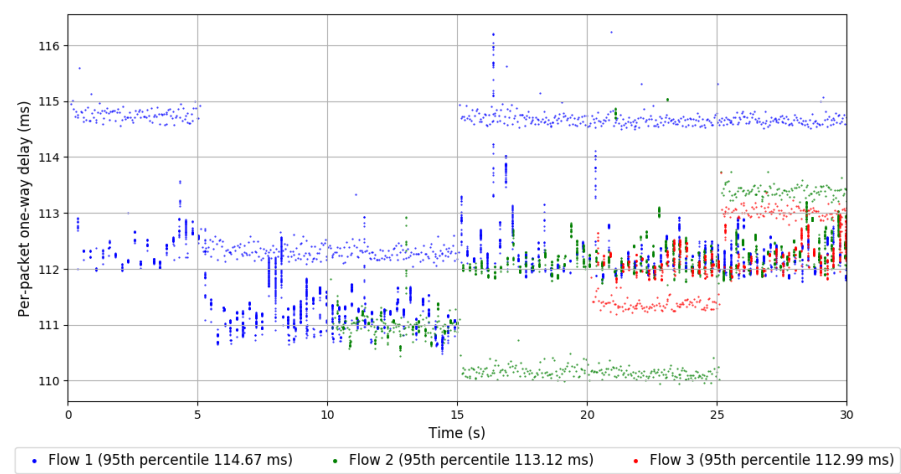
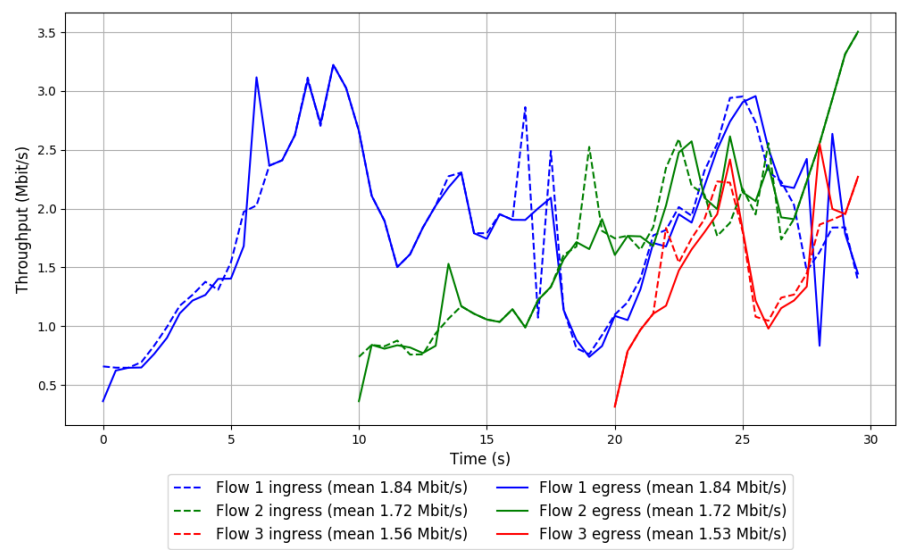


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 11:49:07
End at: 2018-01-26 11:49:37

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 114.538 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 114.672 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 113.117 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 112.988 ms
Loss rate: 1.32%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 12:05:13

End at: 2018-01-26 12:05:43

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 113.770 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 3.36 Mbit/s

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

Loss rate: 0.18%

-- Flow 2:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 113.719 ms

Loss rate: 0.11%

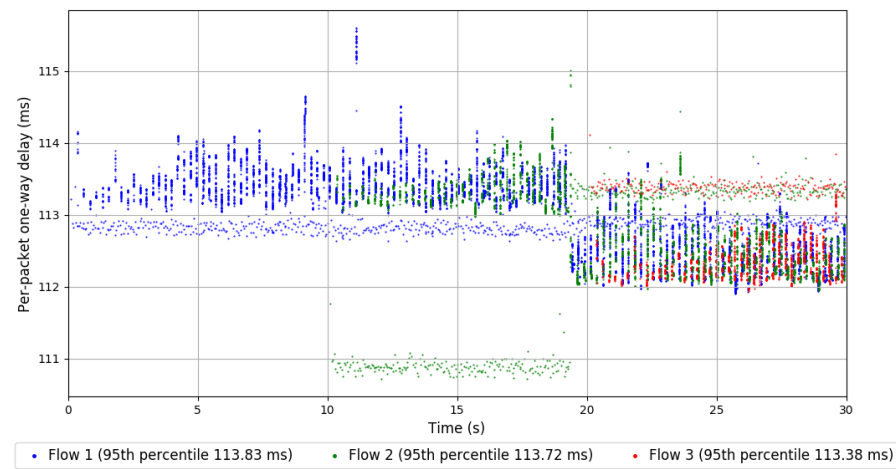
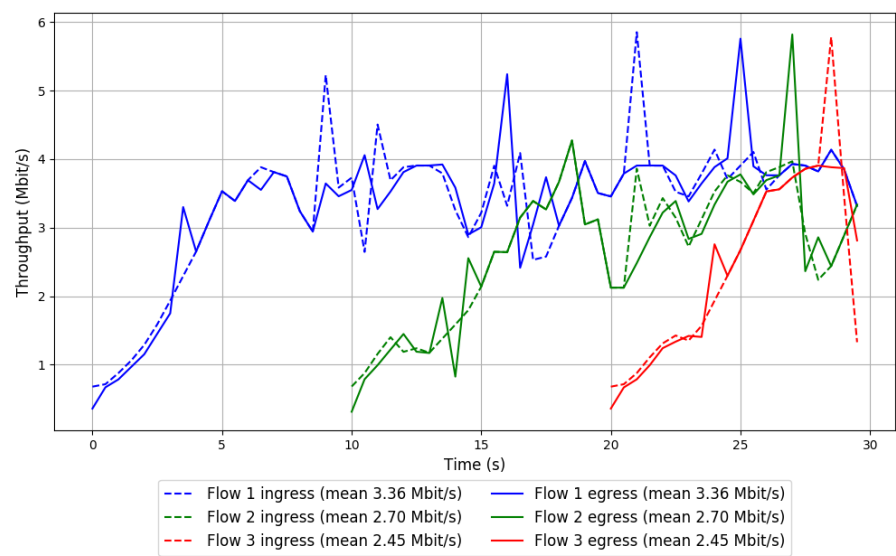
-- Flow 3:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 113.382 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 12:20:35

End at: 2018-01-26 12:21:05

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 114.118 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 114.081 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 114.174 ms

Loss rate: 0.00%

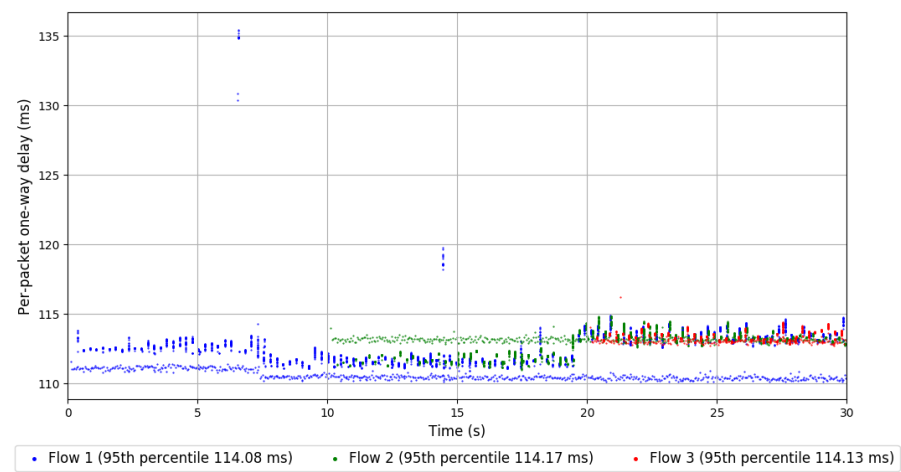
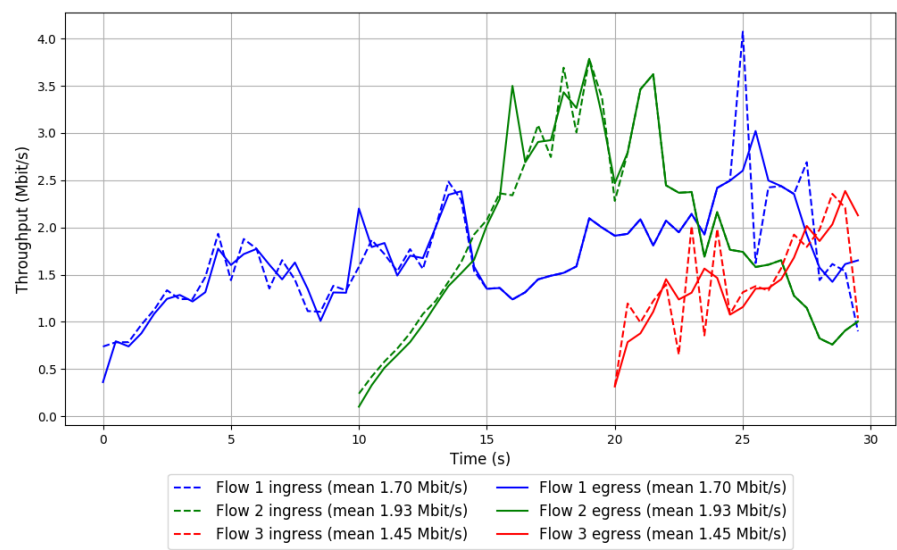
-- Flow 3:

Average throughput: 1.45 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 12:36:00

End at: 2018-01-26 12:36:30

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 112.906 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 112.992 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 112.870 ms

Loss rate: 0.24%

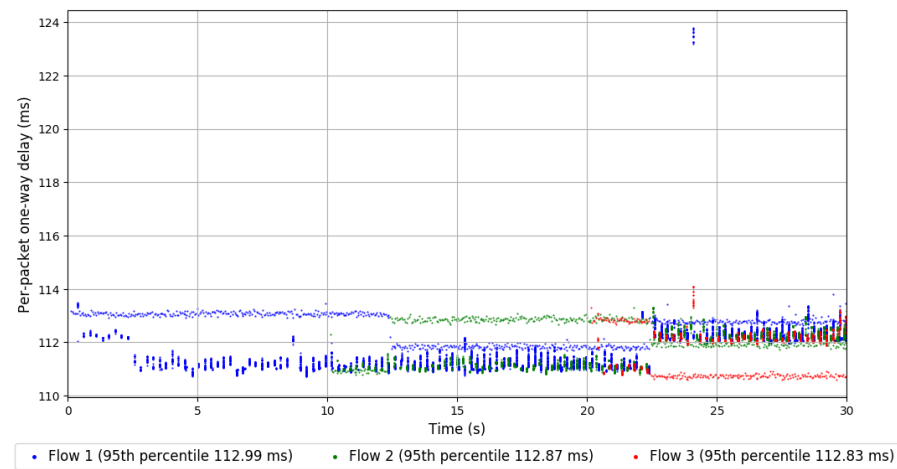
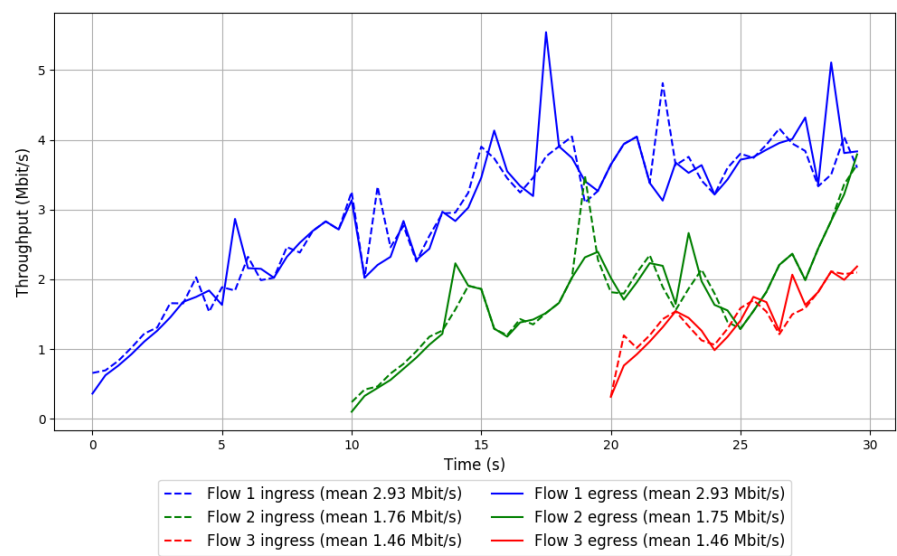
-- Flow 3:

Average throughput: 1.46 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 12:51:36

End at: 2018-01-26 12:52:06

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 113.219 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 113.278 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 113.179 ms

Loss rate: 0.00%

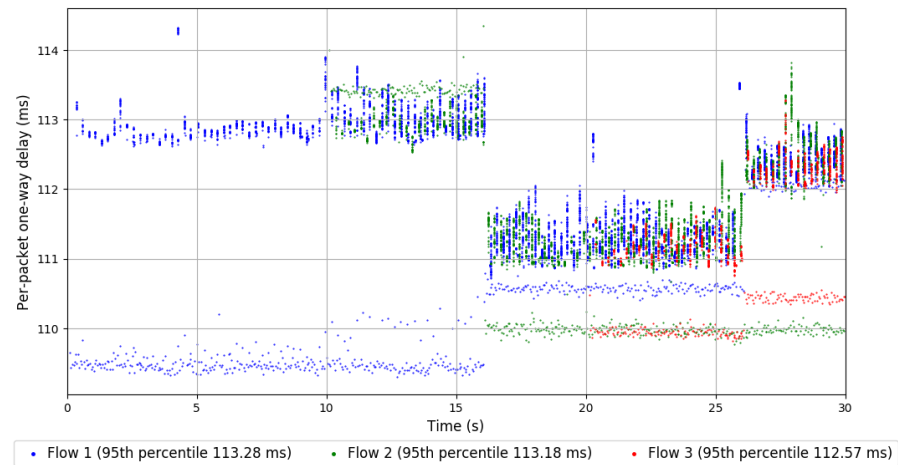
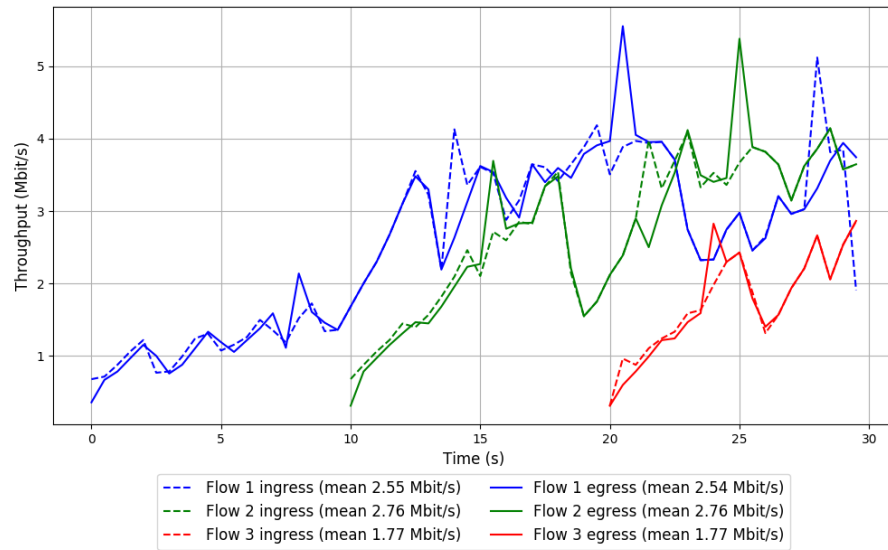
-- Flow 3:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 112.572 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 13:07:20

End at: 2018-01-26 13:07:50

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 112.515 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 112.534 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 112.466 ms

Loss rate: 0.00%

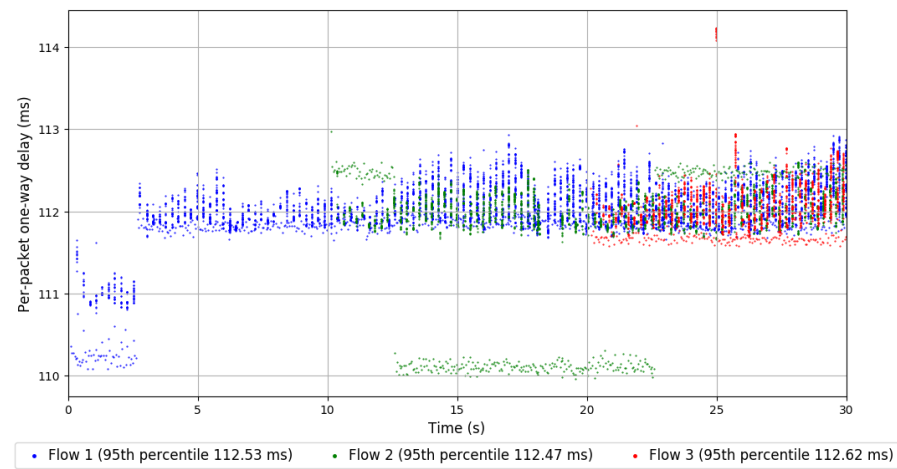
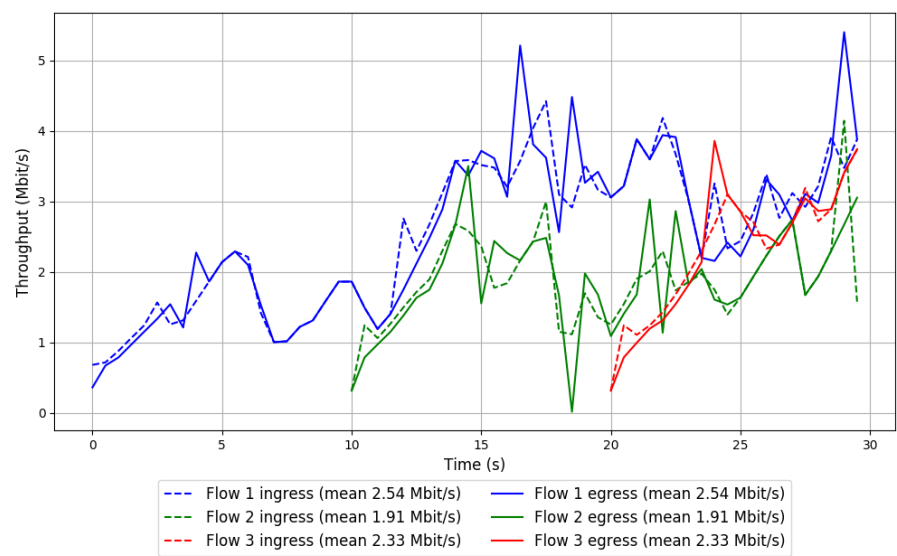
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 112.619 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 13:23:12

End at: 2018-01-26 13:23:42

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 112.643 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 112.735 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 112.515 ms

Loss rate: 0.00%

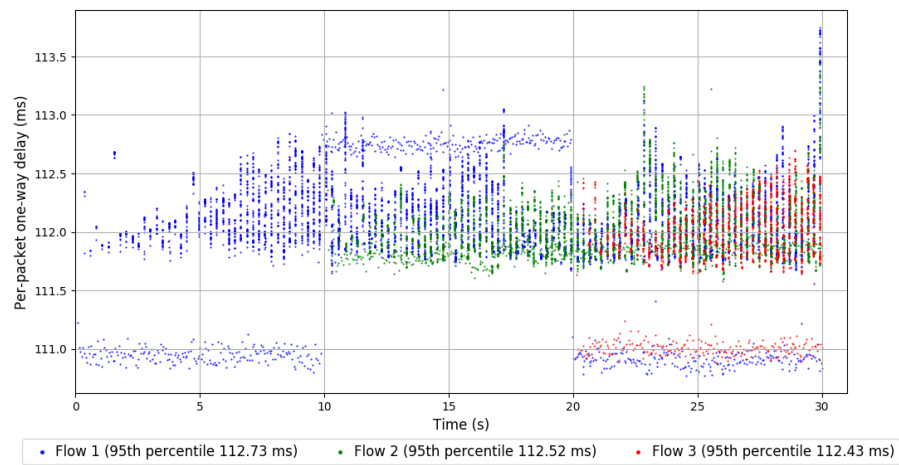
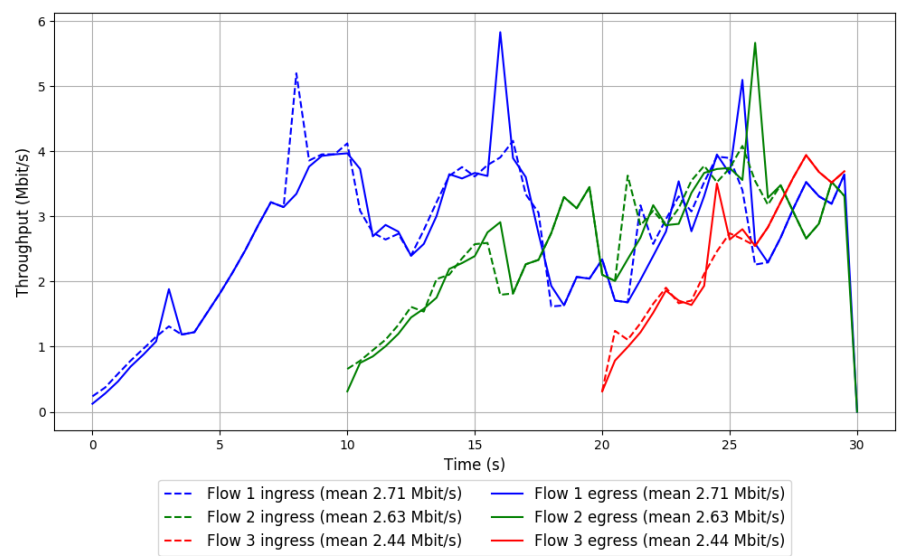
-- Flow 3:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 112.429 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 13:38:39

End at: 2018-01-26 13:39:09

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.06 Mbit/s

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

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 113.032 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 113.361 ms

Loss rate: 0.02%

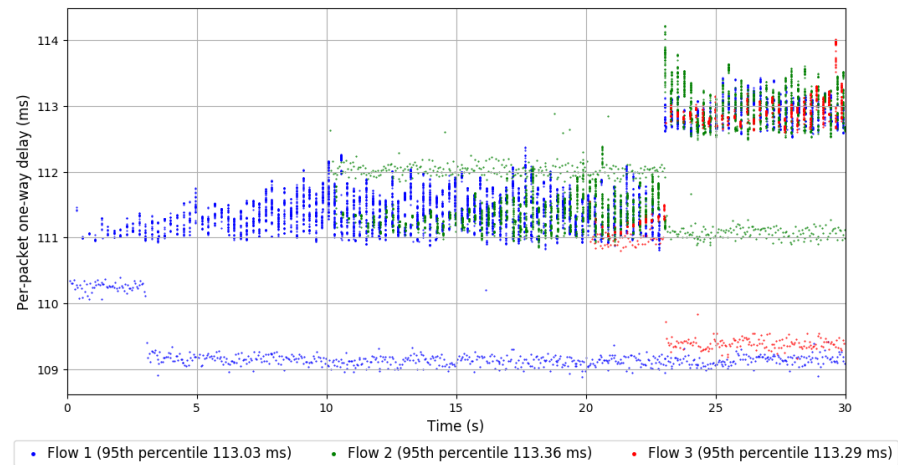
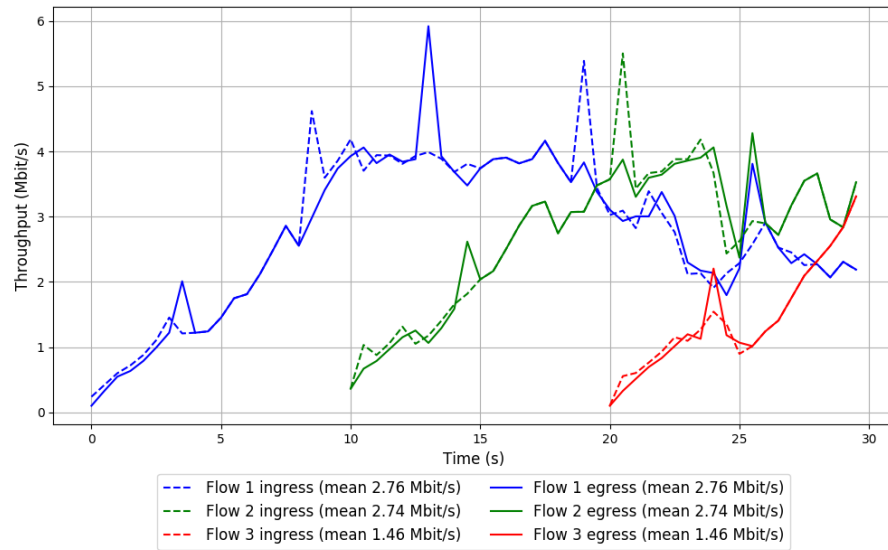
-- Flow 3:

Average throughput: 1.46 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 13:54:33

End at: 2018-01-26 13:55:03

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 112.975 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 113.228 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 111.679 ms

Loss rate: 0.20%

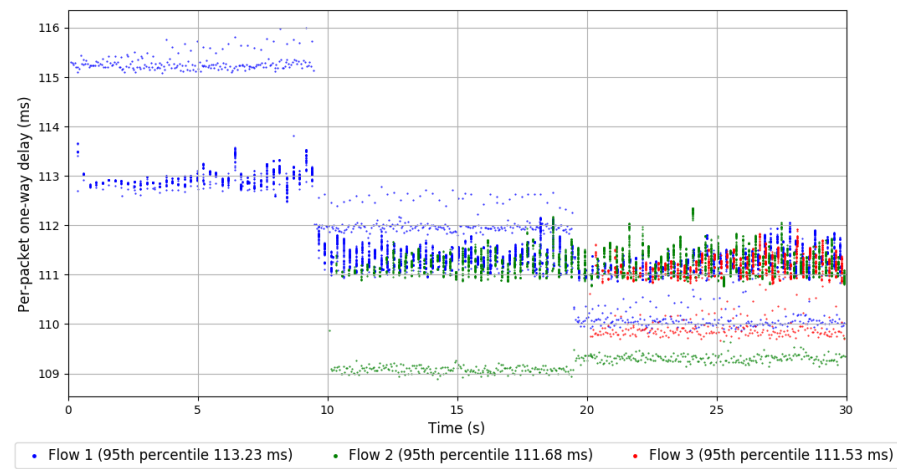
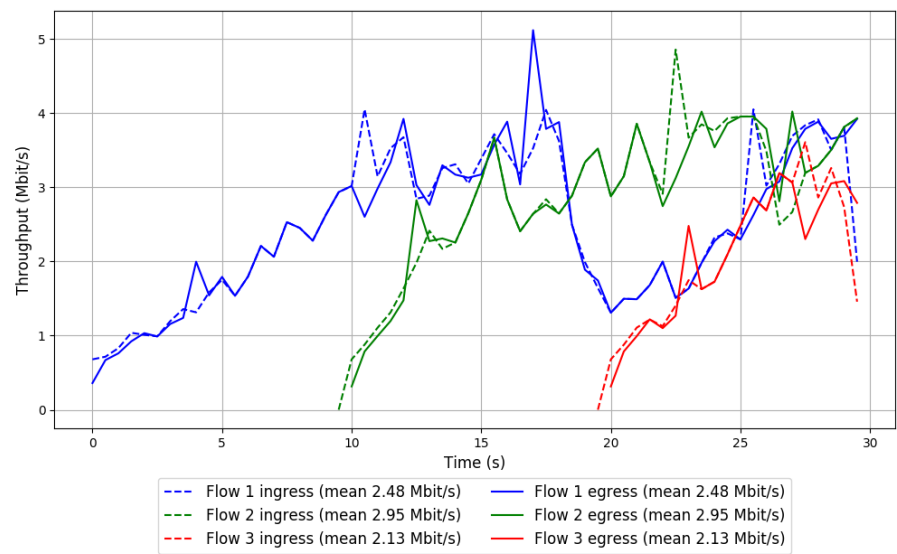
-- Flow 3:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 111.533 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 14:10:10

End at: 2018-01-26 14:10:40

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 113.073 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 113.118 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.561 ms

Loss rate: 0.00%

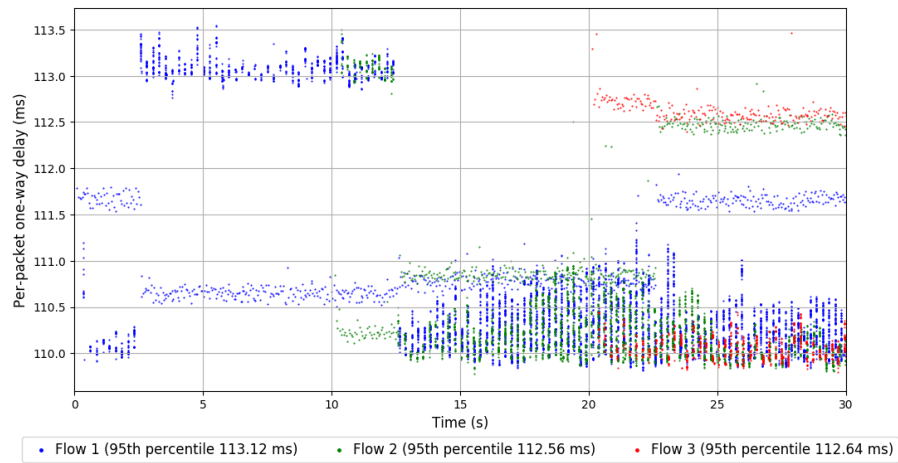
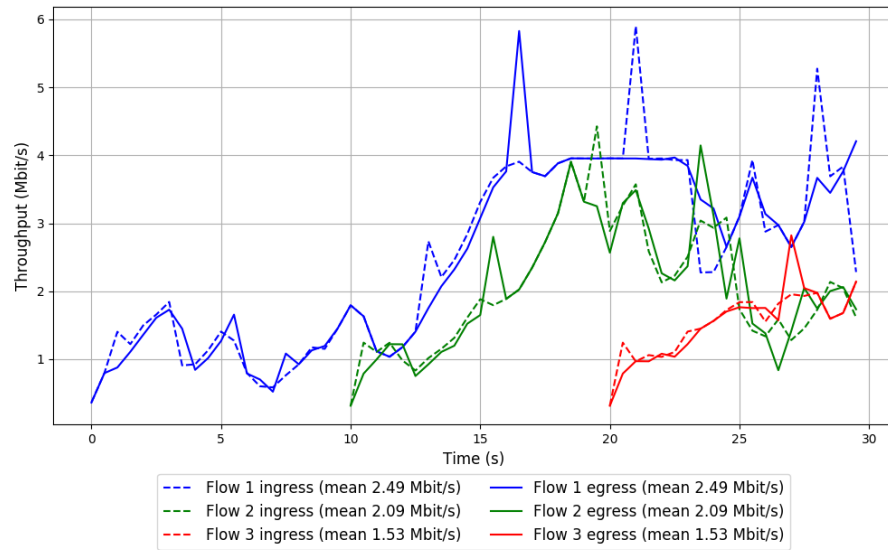
-- Flow 3:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 112.639 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

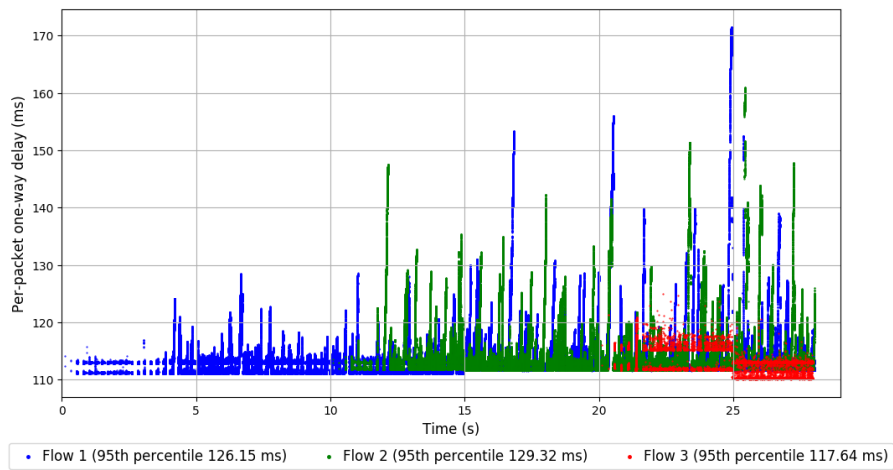
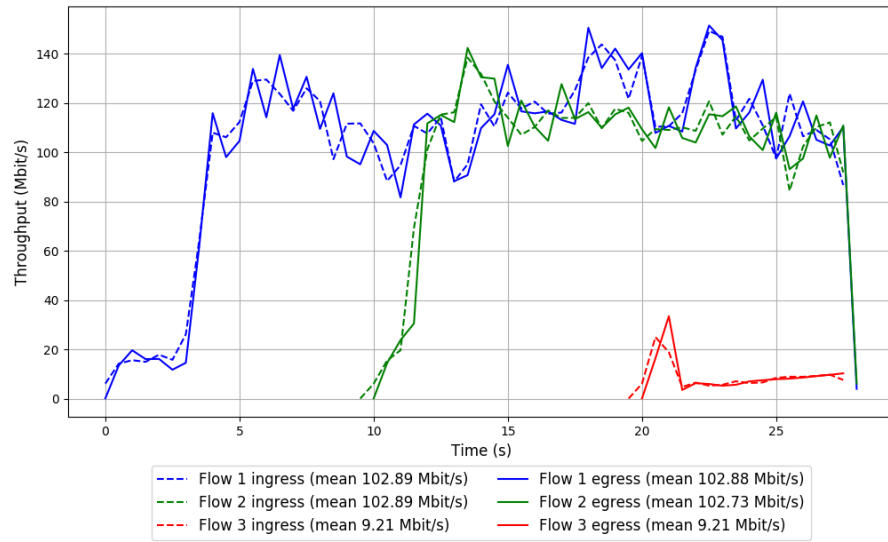


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 11:51:05
End at: 2018-01-26 11:51:35

# Below is generated by plot.py at 2018-01-26 15:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 171.45 Mbit/s
95th percentile per-packet one-way delay: 127.429 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 102.88 Mbit/s
95th percentile per-packet one-way delay: 126.148 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 102.73 Mbit/s
95th percentile per-packet one-way delay: 129.319 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 9.21 Mbit/s
95th percentile per-packet one-way delay: 117.642 ms
Loss rate: 0.00%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 12:07:11

End at: 2018-01-26 12:07:41

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

Figure is missing

Figure is missing

Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 12:22:32

End at: 2018-01-26 12:23:02

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 113.069 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 113.110 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.28 Mbit/s

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

Loss rate: 0.01%

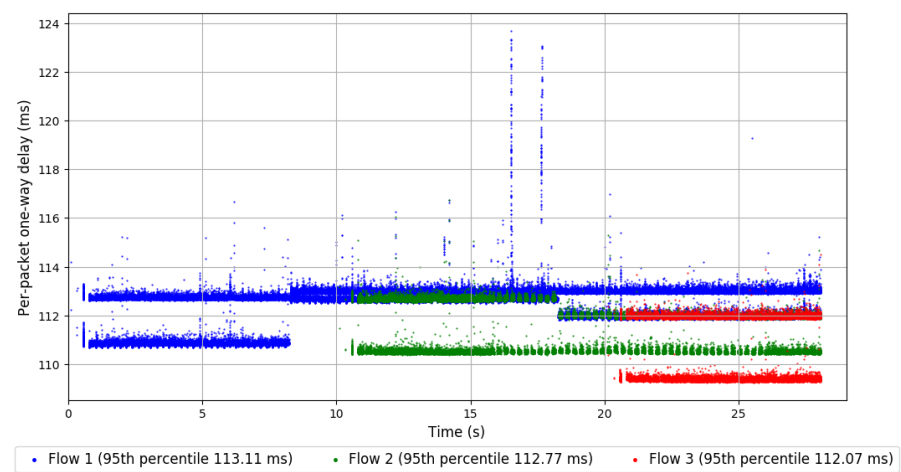
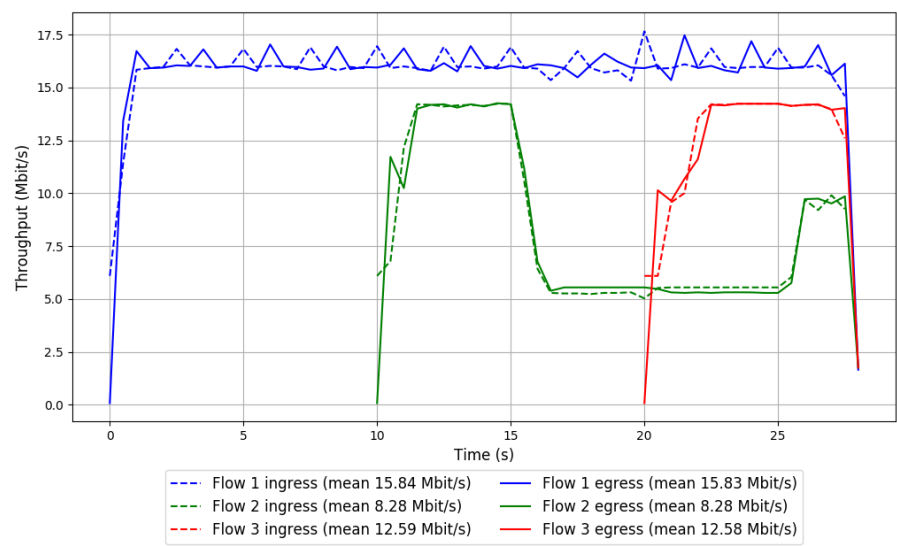
-- Flow 3:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 112.071 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 12:37:59

End at: 2018-01-26 12:38:29

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 113.111 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.64 Mbit/s

95th percentile per-packet one-way delay: 112.598 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 112.824 ms

Loss rate: 0.00%

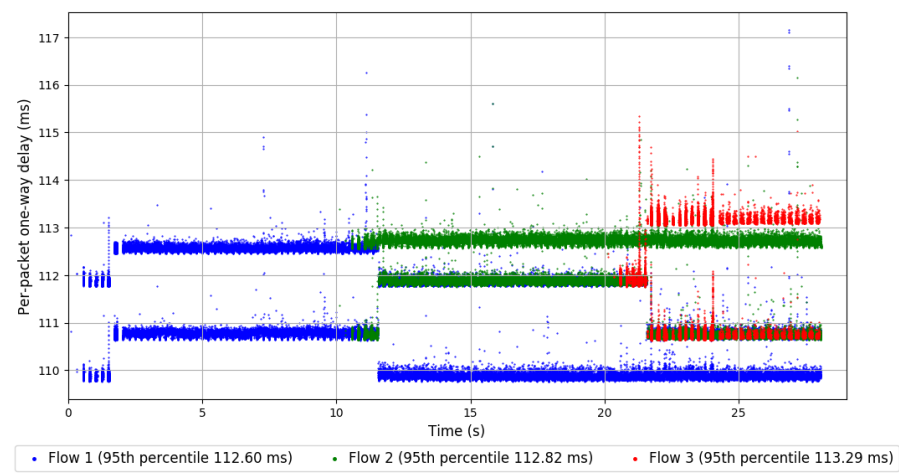
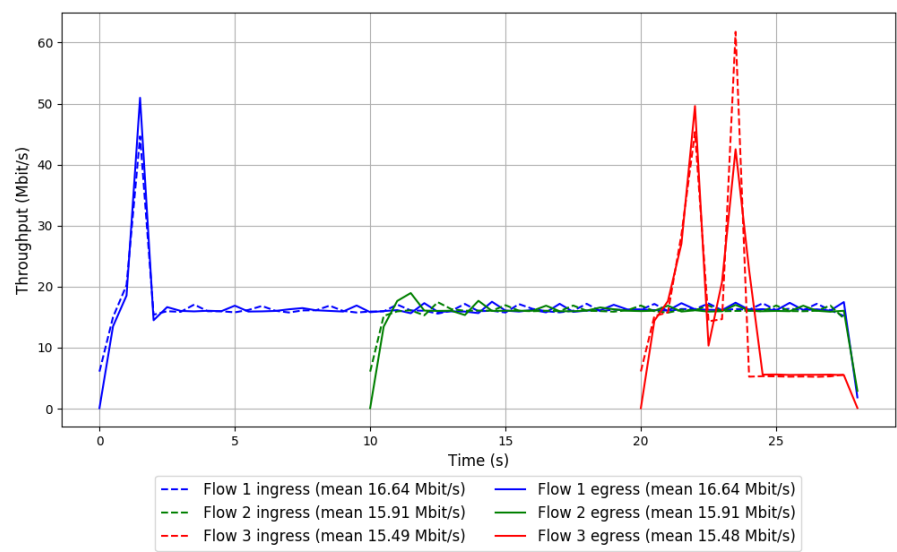
-- Flow 3:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 113.289 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 12:53:33

End at: 2018-01-26 12:54:03

Below is generated by plot.py at 2018-01-26 15:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.03 Mbit/s

95th percentile per-packet one-way delay: 114.296 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.01 Mbit/s

95th percentile per-packet one-way delay: 114.624 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 112.612 ms

Loss rate: 0.00%

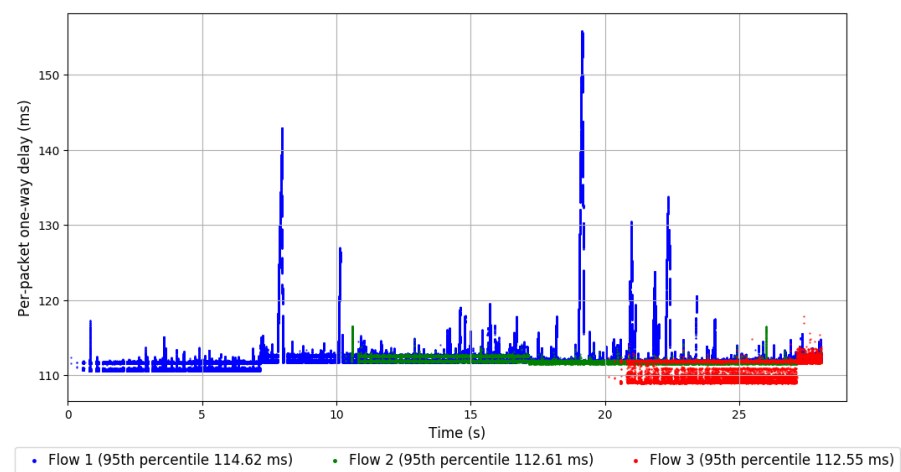
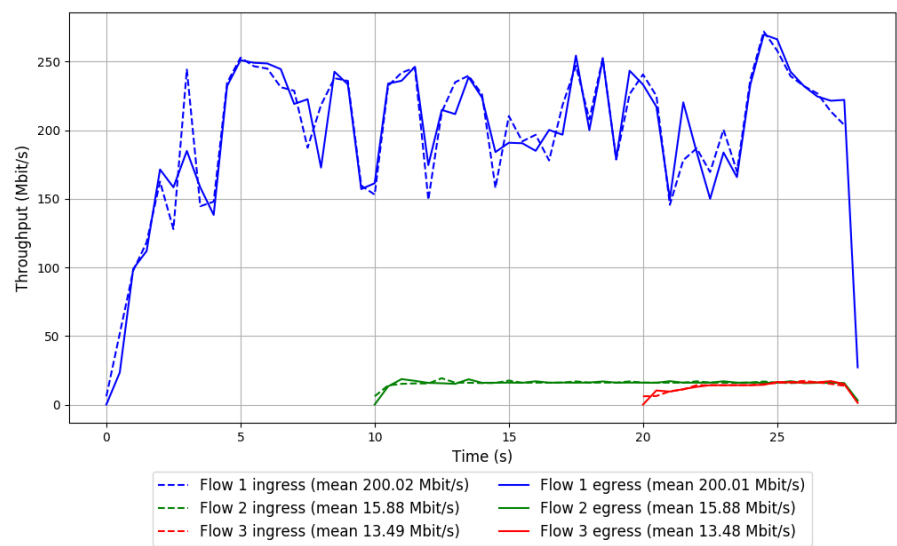
-- Flow 3:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 112.548 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 13:09:19

End at: 2018-01-26 13:09:49

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.69 Mbit/s

95th percentile per-packet one-way delay: 111.646 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 197.12 Mbit/s

95th percentile per-packet one-way delay: 111.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 111.135 ms

Loss rate: 0.00%

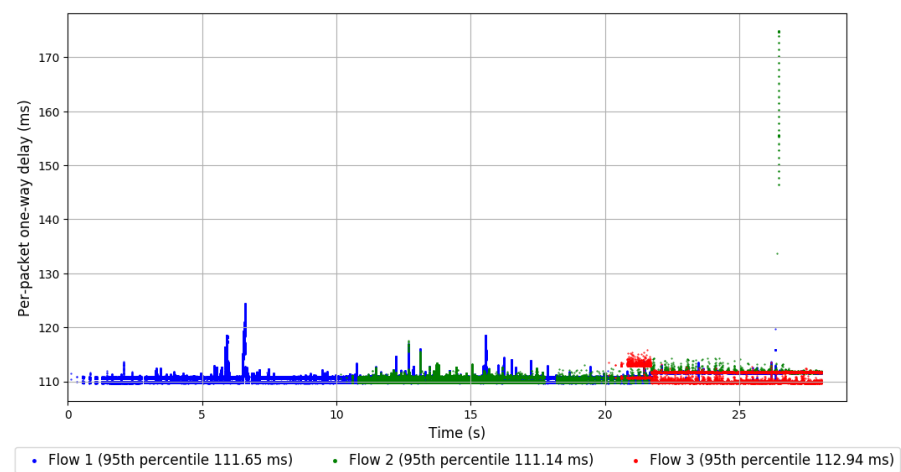
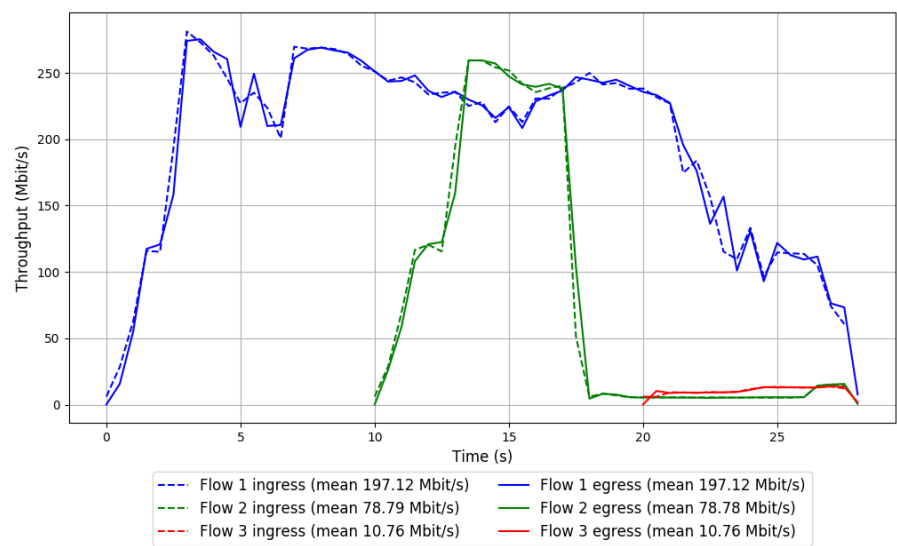
-- Flow 3:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 112.943 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 13:24:49

End at: 2018-01-26 13:25:19

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.53 Mbit/s

95th percentile per-packet one-way delay: 112.048 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 111.761 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 112.081 ms

Loss rate: 0.00%

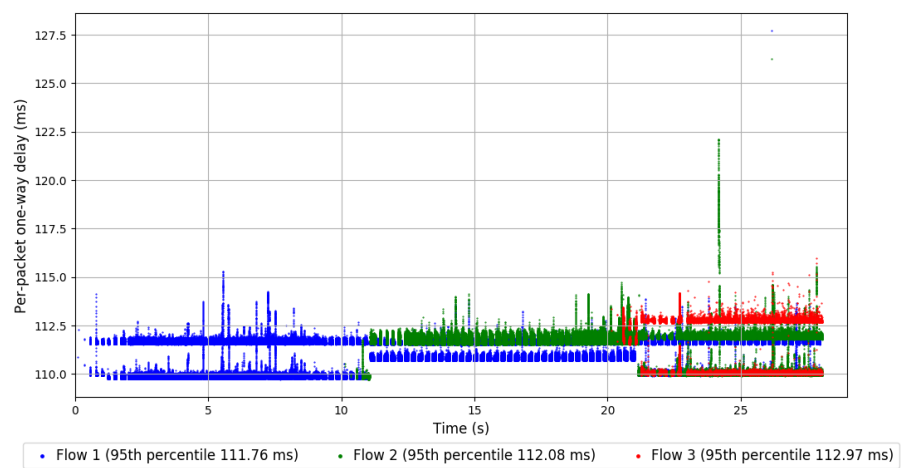
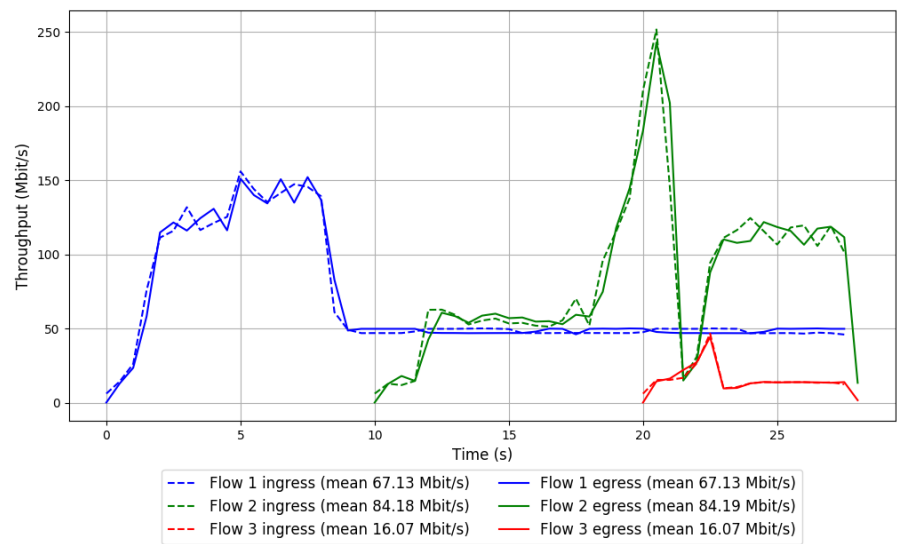
-- Flow 3:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 112.971 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 13:40:39

End at: 2018-01-26 13:41:09

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 197.69 Mbit/s

95th percentile per-packet one-way delay: 112.298 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 114.101 ms

Loss rate: 0.01%

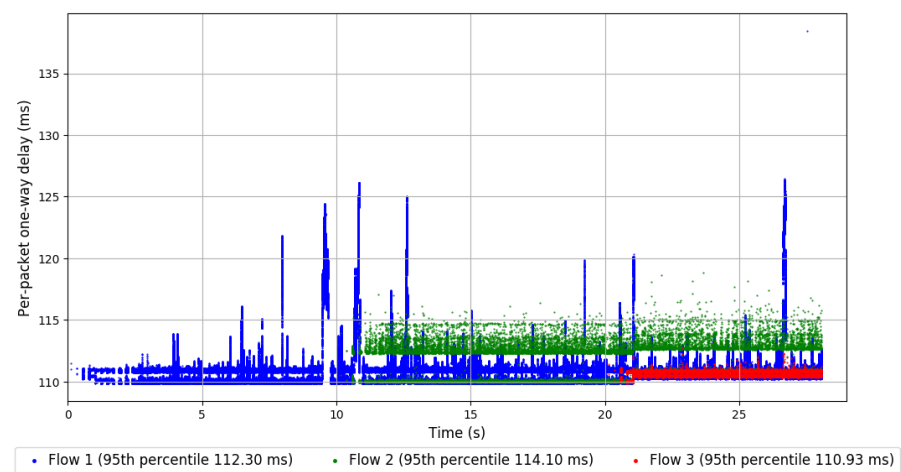
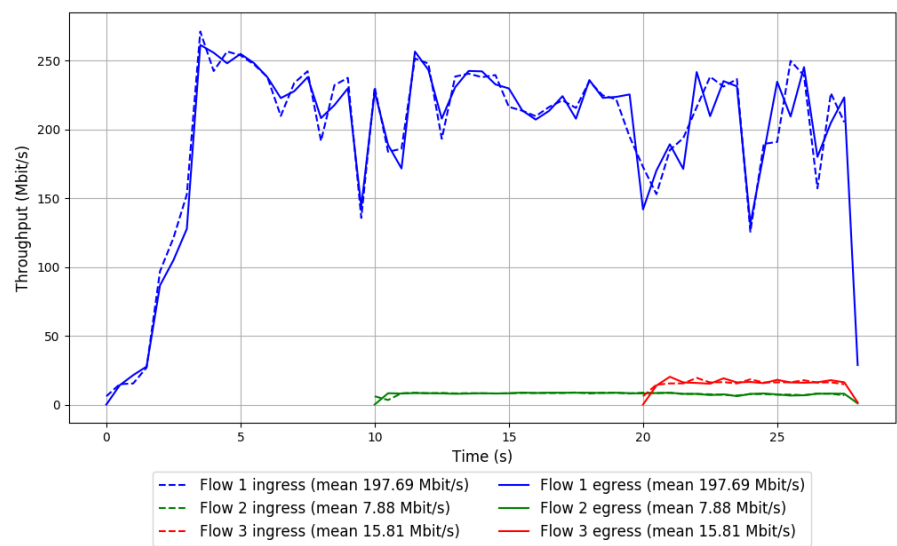
-- Flow 3:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 110.929 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 13:56:30

End at: 2018-01-26 13:57:00

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

Figure is missing

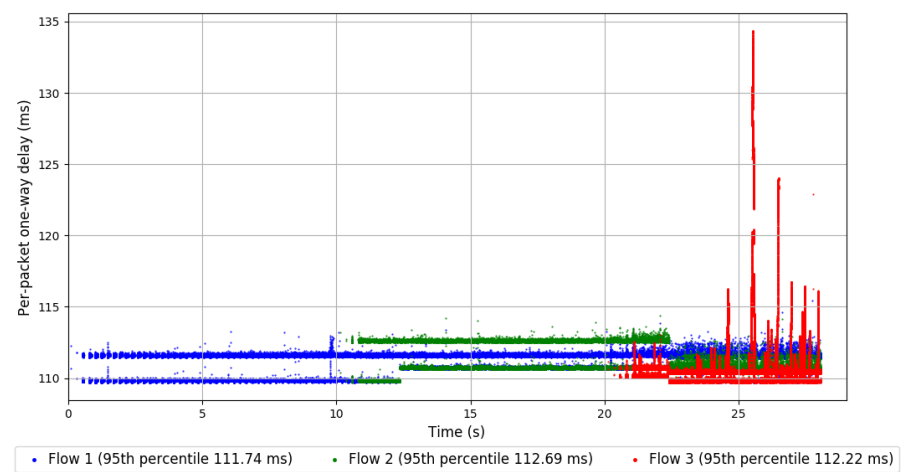
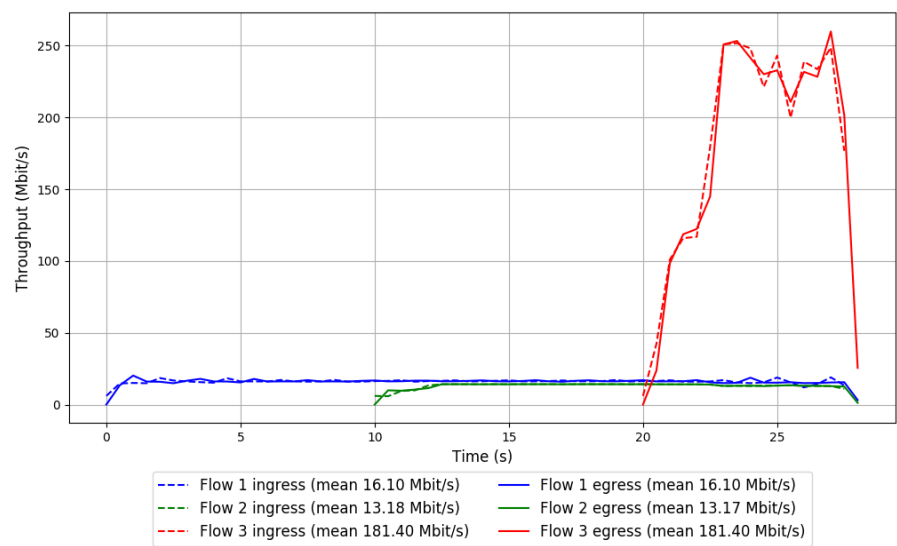
Figure is missing

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

Start at: 2018-01-26 14:12:08
End at: 2018-01-26 14:12:38

# Below is generated by plot.py at 2018-01-26 15:40:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 112.595 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.10 Mbit/s
95th percentile per-packet one-way delay: 111.739 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 112.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 181.40 Mbit/s
95th percentile per-packet one-way delay: 112.221 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2018-01-26 11:44:13

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 121.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 116.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 116.969 ms

Loss rate: 0.00%

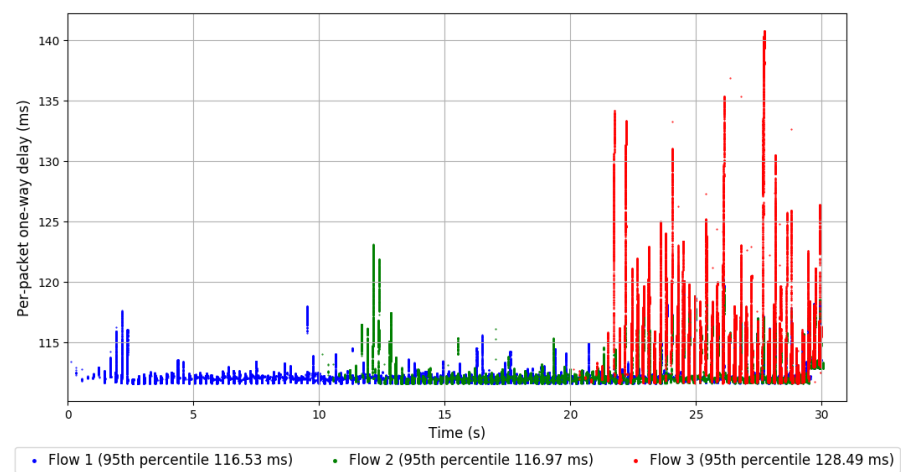
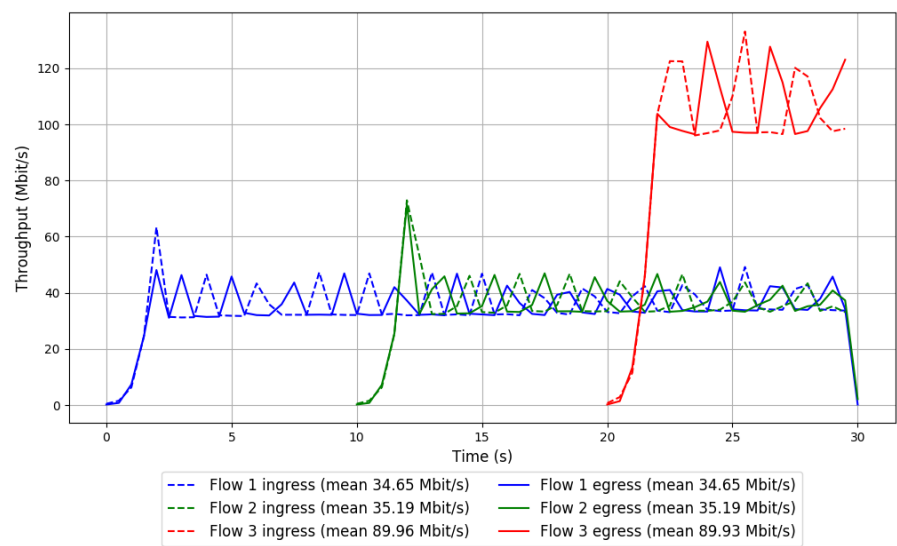
-- Flow 3:

Average throughput: 89.93 Mbit/s

95th percentile per-packet one-way delay: 128.486 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 11:59:47

End at: 2018-01-26 12:00:17

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 113.331 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.38 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.97 Mbit/s

95th percentile per-packet one-way delay: 113.495 ms

Loss rate: 0.00%

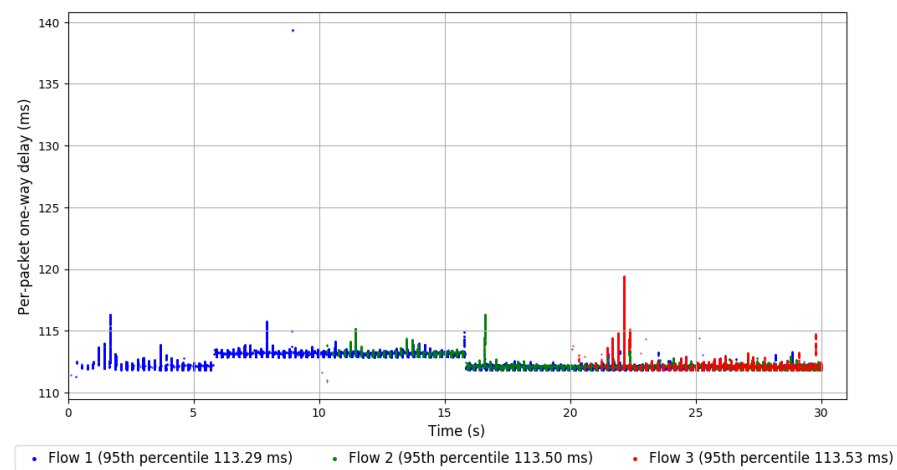
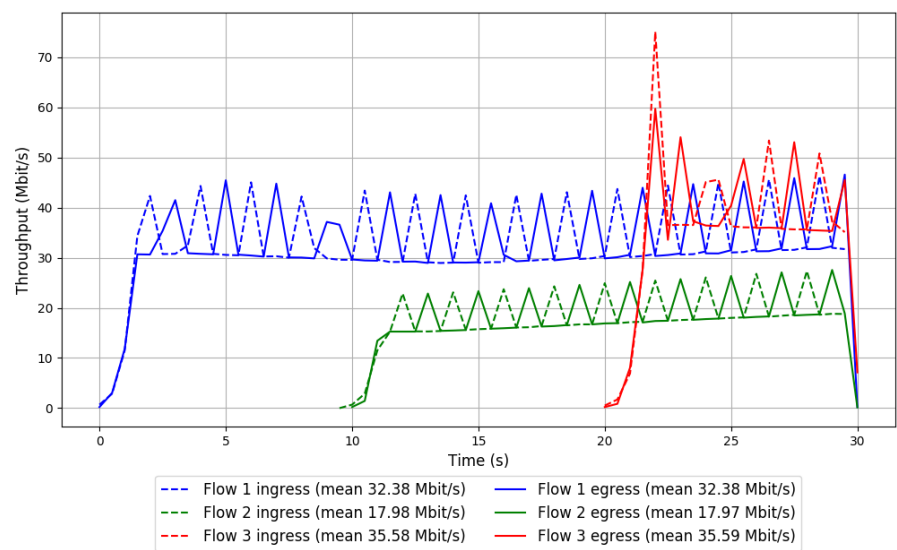
-- Flow 3:

Average throughput: 35.59 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 12:15:17

End at: 2018-01-26 12:15:47

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 129.880 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 117.012 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 28.75 Mbit/s

95th percentile per-packet one-way delay: 133.850 ms

Loss rate: 0.00%

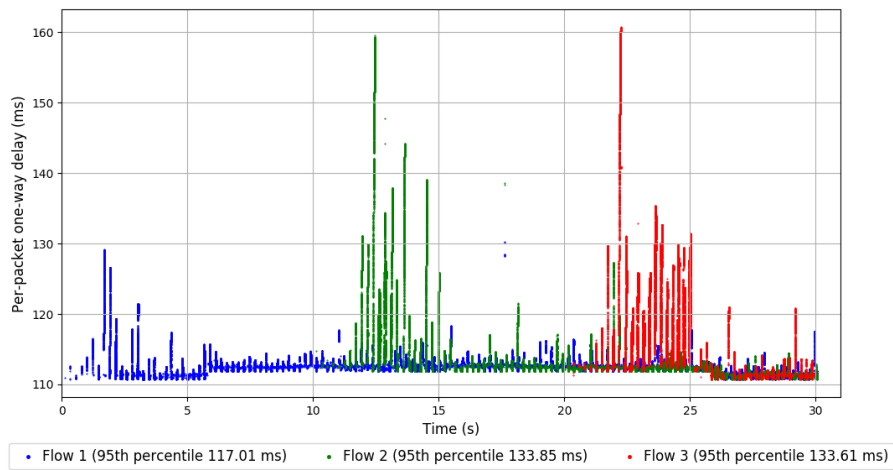
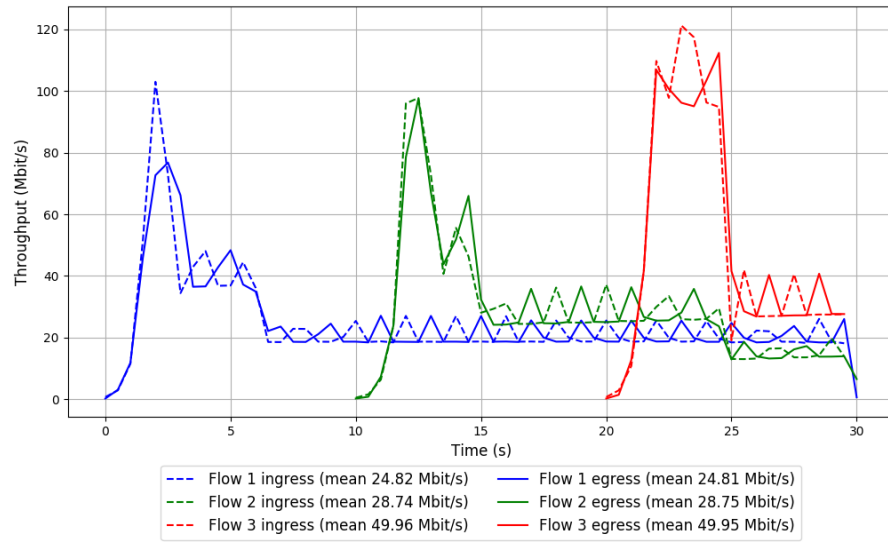
-- Flow 3:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 133.606 ms

Loss rate: 0.03%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 12:30:41

End at: 2018-01-26 12:31:11

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 124.441 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 13.38 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 17.37 Mbit/s

95th percentile per-packet one-way delay: 116.076 ms

Loss rate: 0.01%

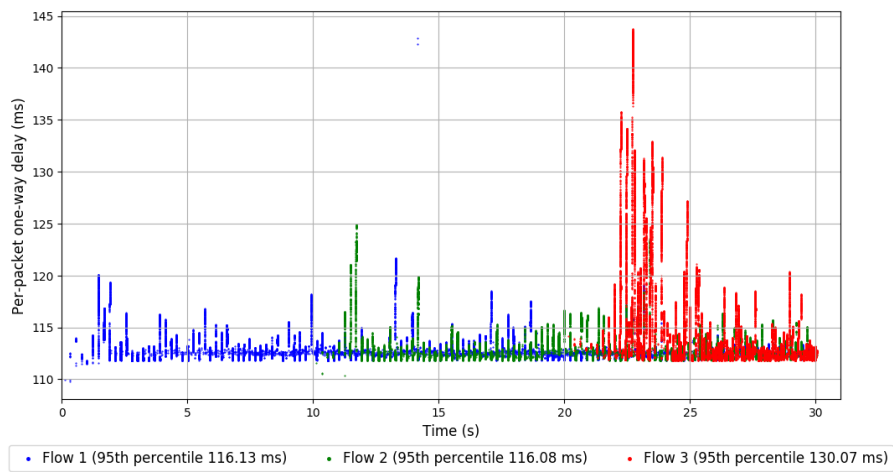
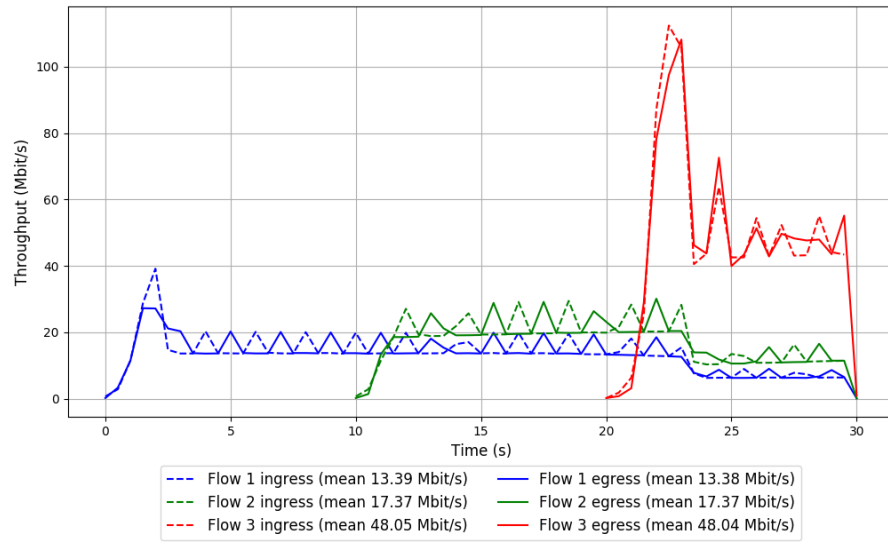
-- Flow 3:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 130.069 ms

Loss rate: 0.04%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 12:46:13

End at: 2018-01-26 12:46:43

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 112.430 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 18.08 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.33 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 0.00%

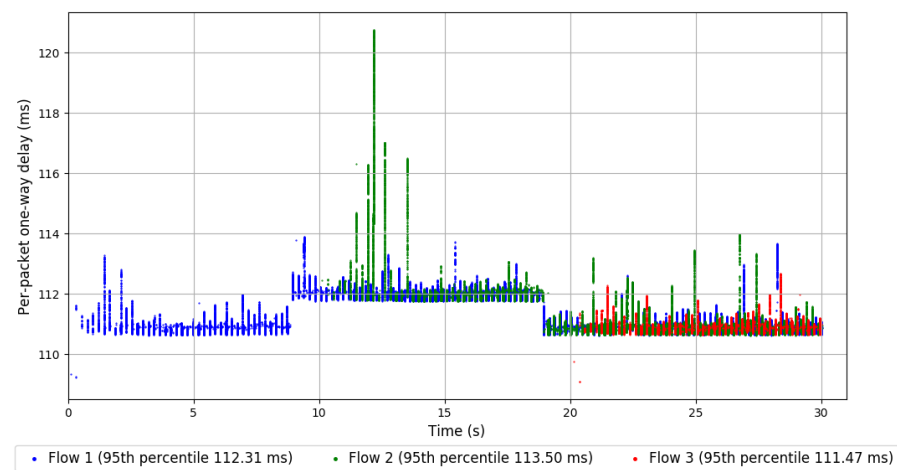
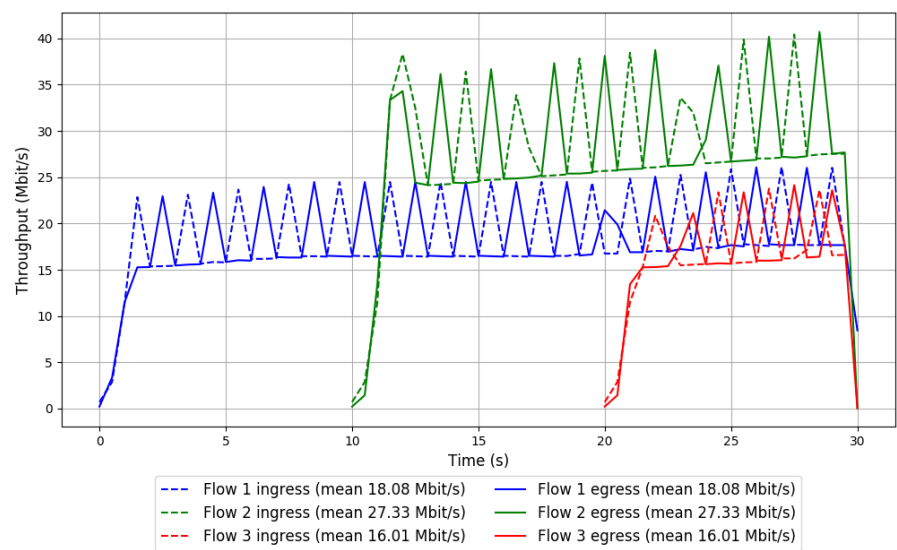
-- Flow 3:

Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: 111.470 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 13:01:57

End at: 2018-01-26 13:02:27

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.47 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 111.970 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.07 Mbit/s

95th percentile per-packet one-way delay: 111.956 ms

Loss rate: 0.00%

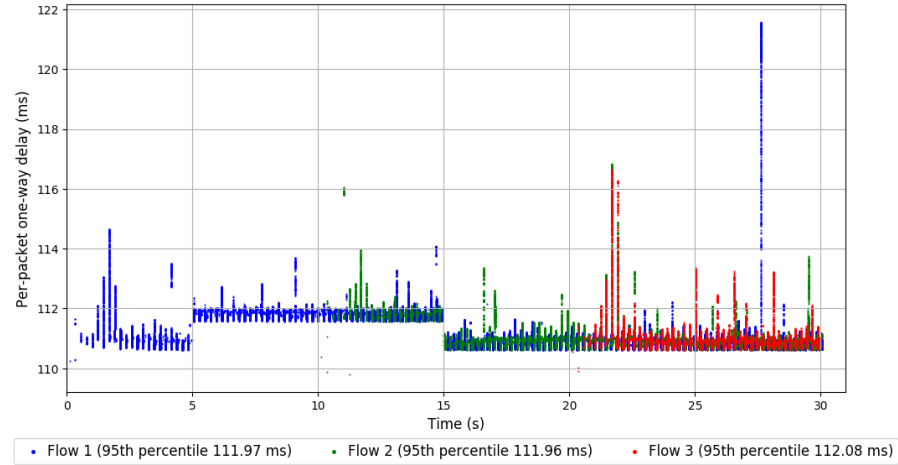
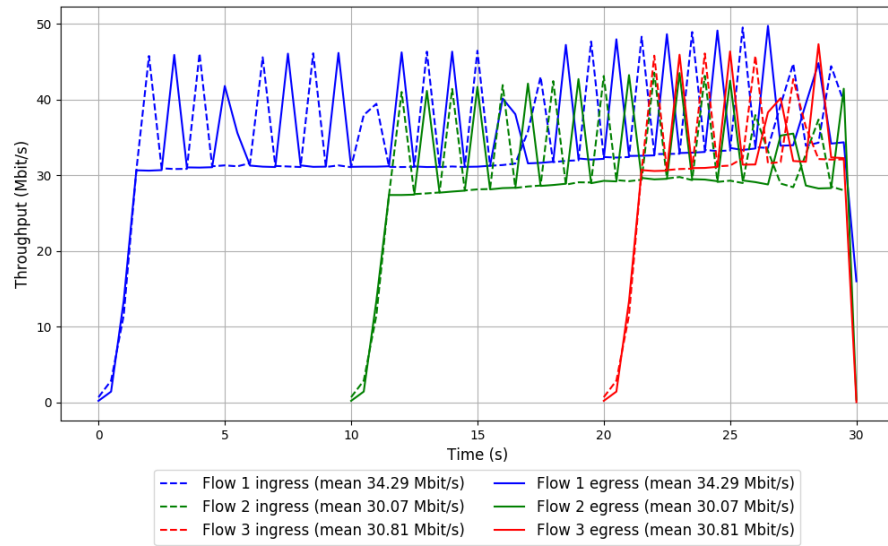
-- Flow 3:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 112.079 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 13:17:54

End at: 2018-01-26 13:18:24

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 112.261 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 112.306 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.50 Mbit/s

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

Loss rate: 0.12%

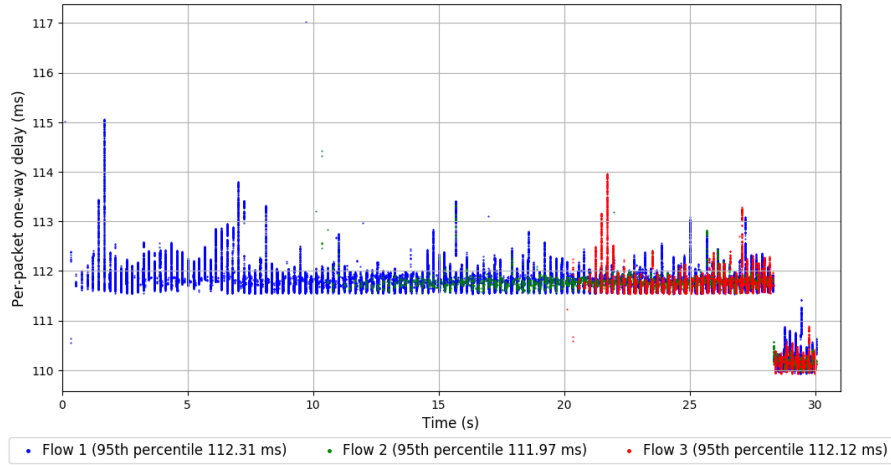
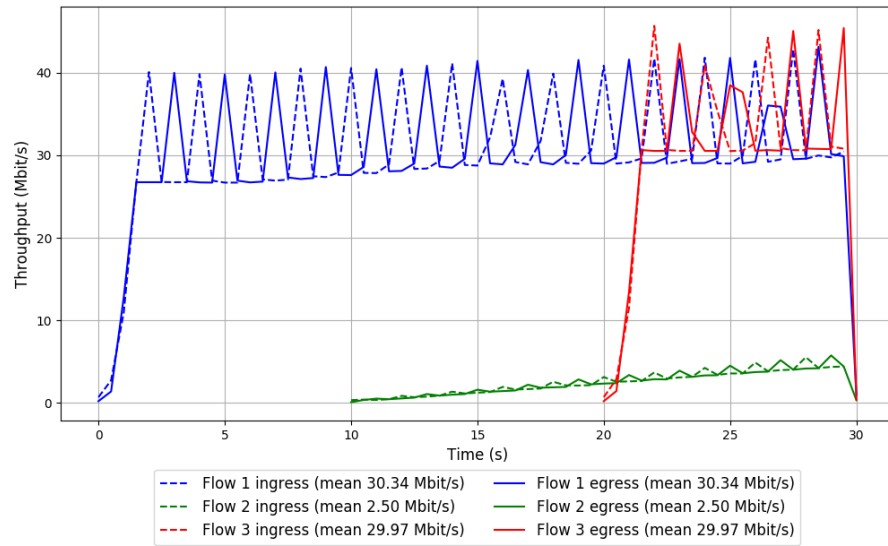
-- Flow 3:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 112.122 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 13:33:15

End at: 2018-01-26 13:33:45

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.69 Mbit/s

95th percentile per-packet one-way delay: 112.018 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 112.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 111.900 ms

Loss rate: 0.00%

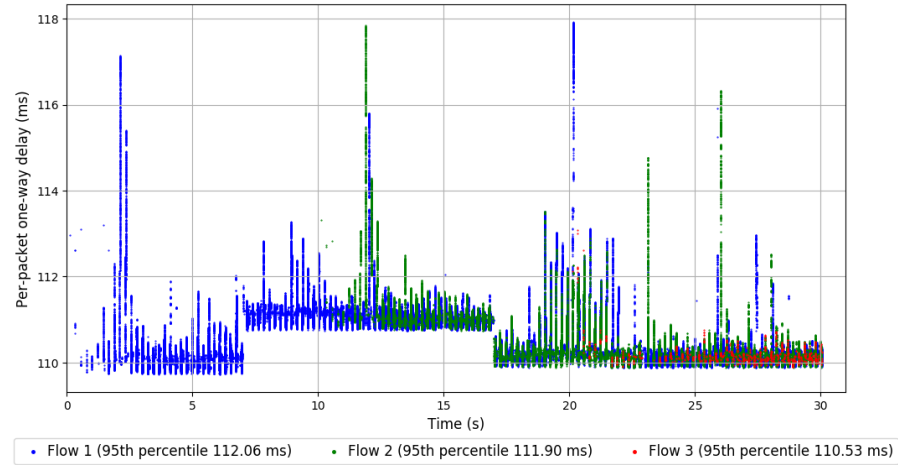
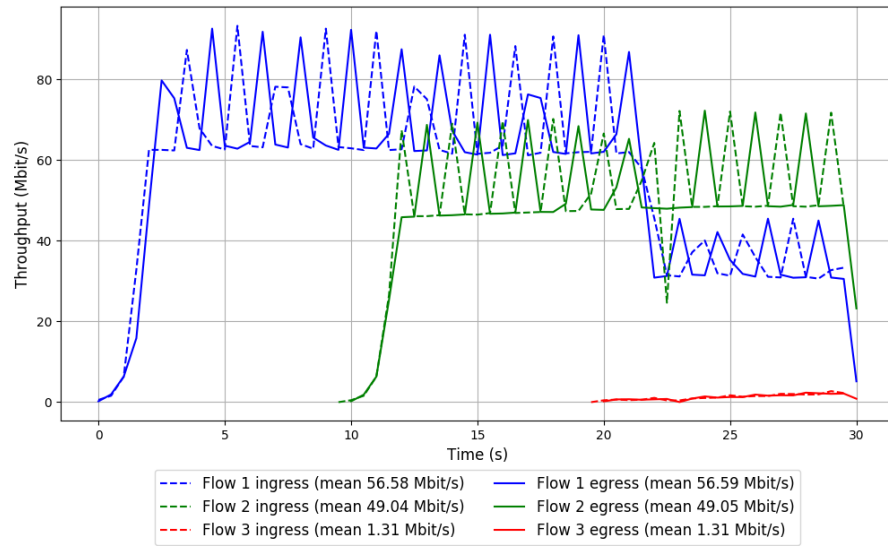
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 110.527 ms

Loss rate: 0.09%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 13:49:08

End at: 2018-01-26 13:49:38

Below is generated by plot.py at 2018-01-26 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.46 Mbit/s

95th percentile per-packet one-way delay: 113.410 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 21.59 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 112.855 ms

Loss rate: 0.01%

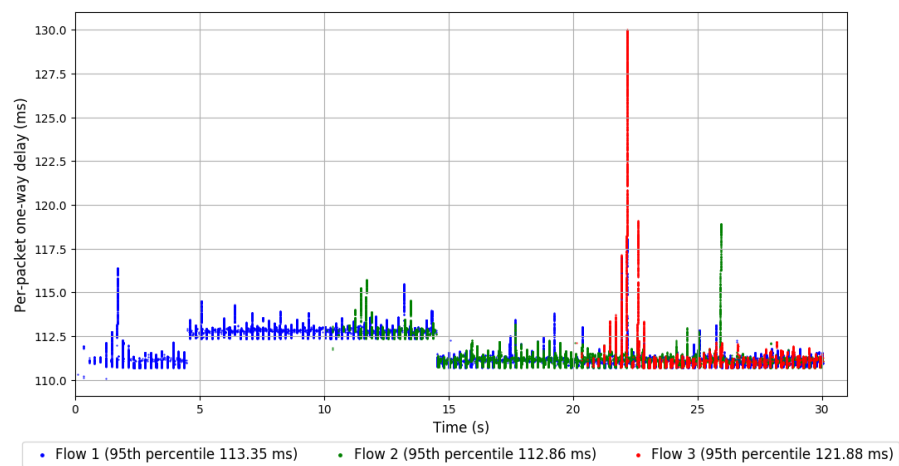
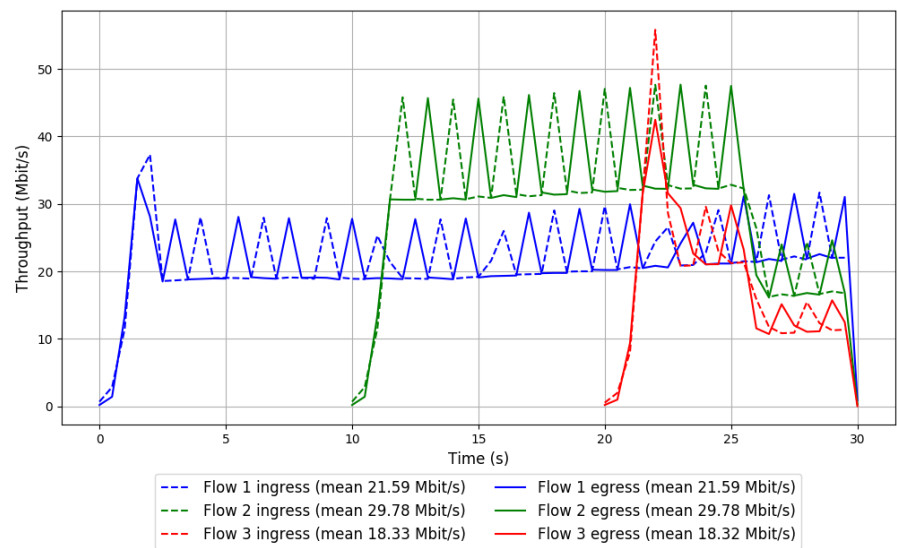
-- Flow 3:

Average throughput: 18.32 Mbit/s

95th percentile per-packet one-way delay: 121.882 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 14:04:48

End at: 2018-01-26 14:05:18

Below is generated by plot.py at 2018-01-26 15:41:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.94 Mbit/s

95th percentile per-packet one-way delay: 111.522 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.90 Mbit/s

95th percentile per-packet one-way delay: 113.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 110.827 ms

Loss rate: 0.00%

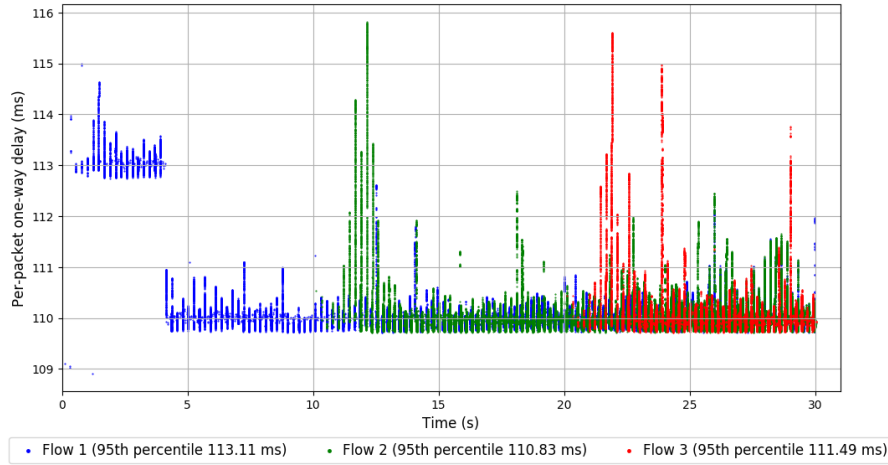
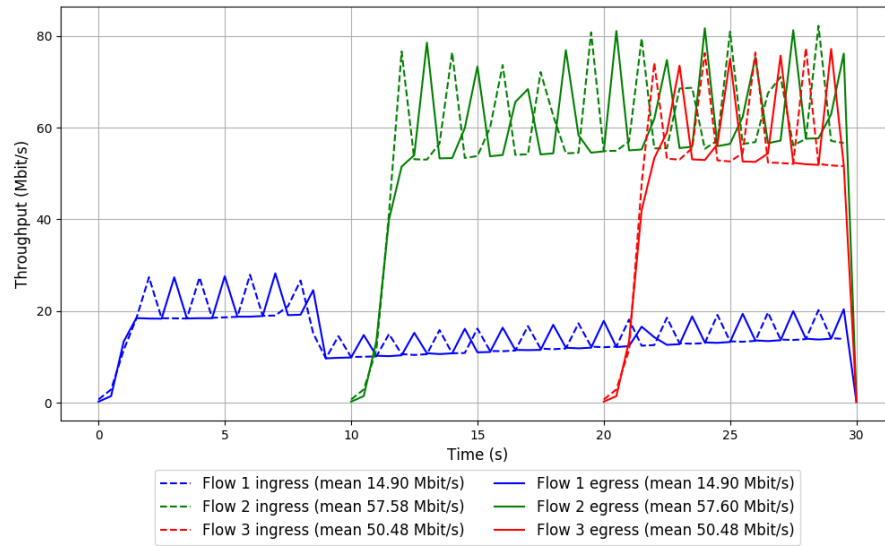
-- Flow 3:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 111.486 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

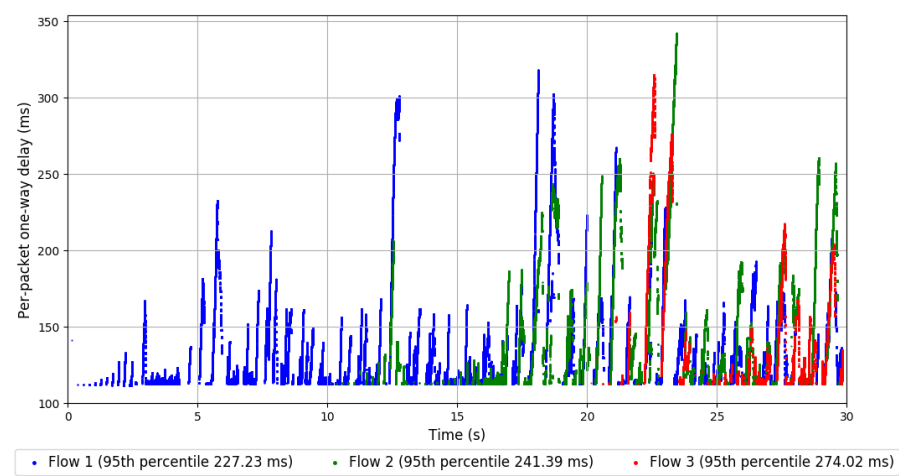
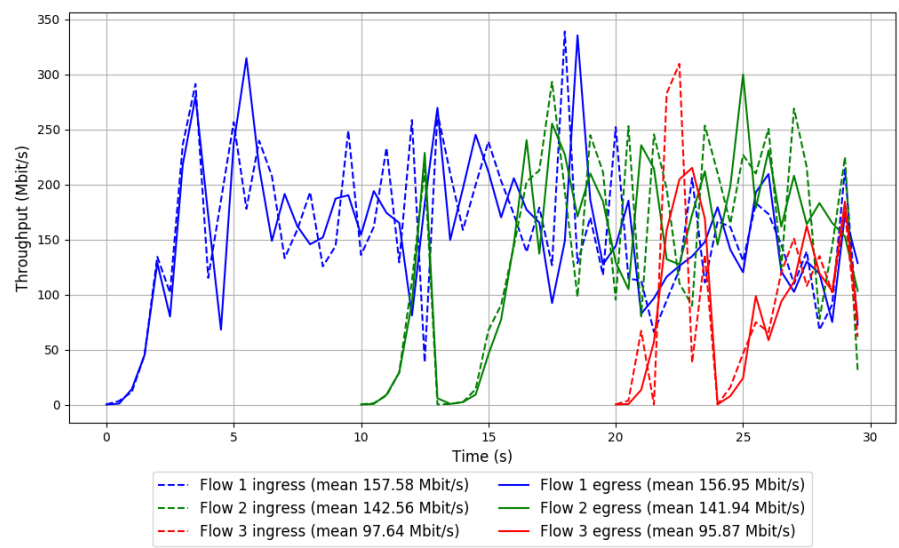


```
Run 1: Statistics of Verus

Start at: 2018-01-26 11:42:30
End at: 2018-01-26 11:43:00

# Below is generated by plot.py at 2018-01-26 15:45:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.19 Mbit/s
95th percentile per-packet one-way delay: 244.799 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 156.95 Mbit/s
95th percentile per-packet one-way delay: 227.227 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 141.94 Mbit/s
95th percentile per-packet one-way delay: 241.390 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 274.024 ms
Loss rate: 1.82%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 11:58:37

End at: 2018-01-26 11:59:07

Below is generated by plot.py at 2018-01-26 15:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.47 Mbit/s

95th percentile per-packet one-way delay: 278.679 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 188.12 Mbit/s

95th percentile per-packet one-way delay: 252.349 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 325.040 ms

Loss rate: 3.56%

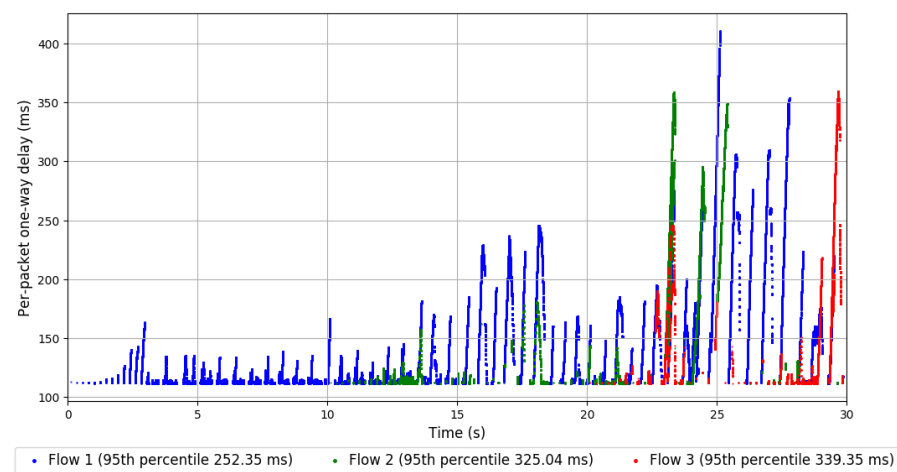
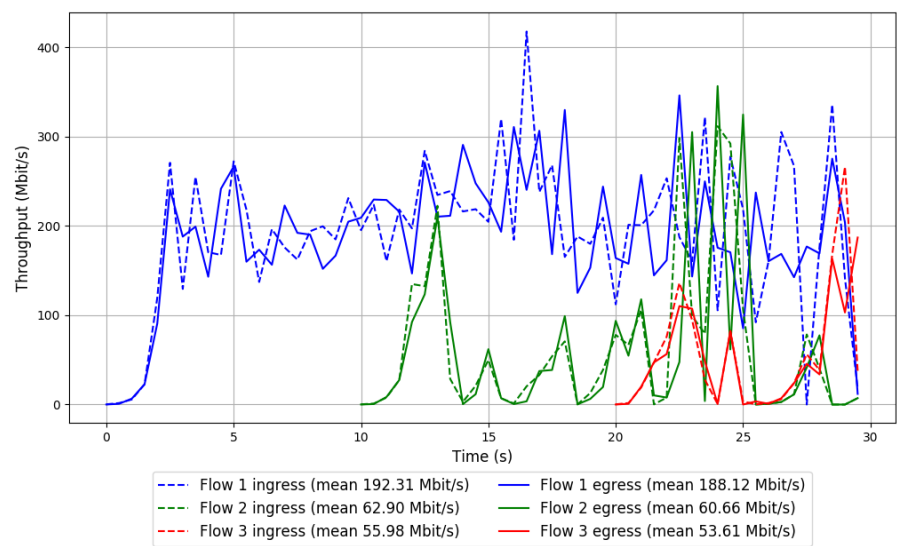
-- Flow 3:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 339.352 ms

Loss rate: 4.27%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 12:14:11

End at: 2018-01-26 12:14:41

Below is generated by plot.py at 2018-01-26 15:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.16 Mbit/s

95th percentile per-packet one-way delay: 308.691 ms

Loss rate: 5.70%

-- Flow 1:

Average throughput: 80.90 Mbit/s

95th percentile per-packet one-way delay: 263.015 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 119.34 Mbit/s

95th percentile per-packet one-way delay: 346.534 ms

Loss rate: 8.88%

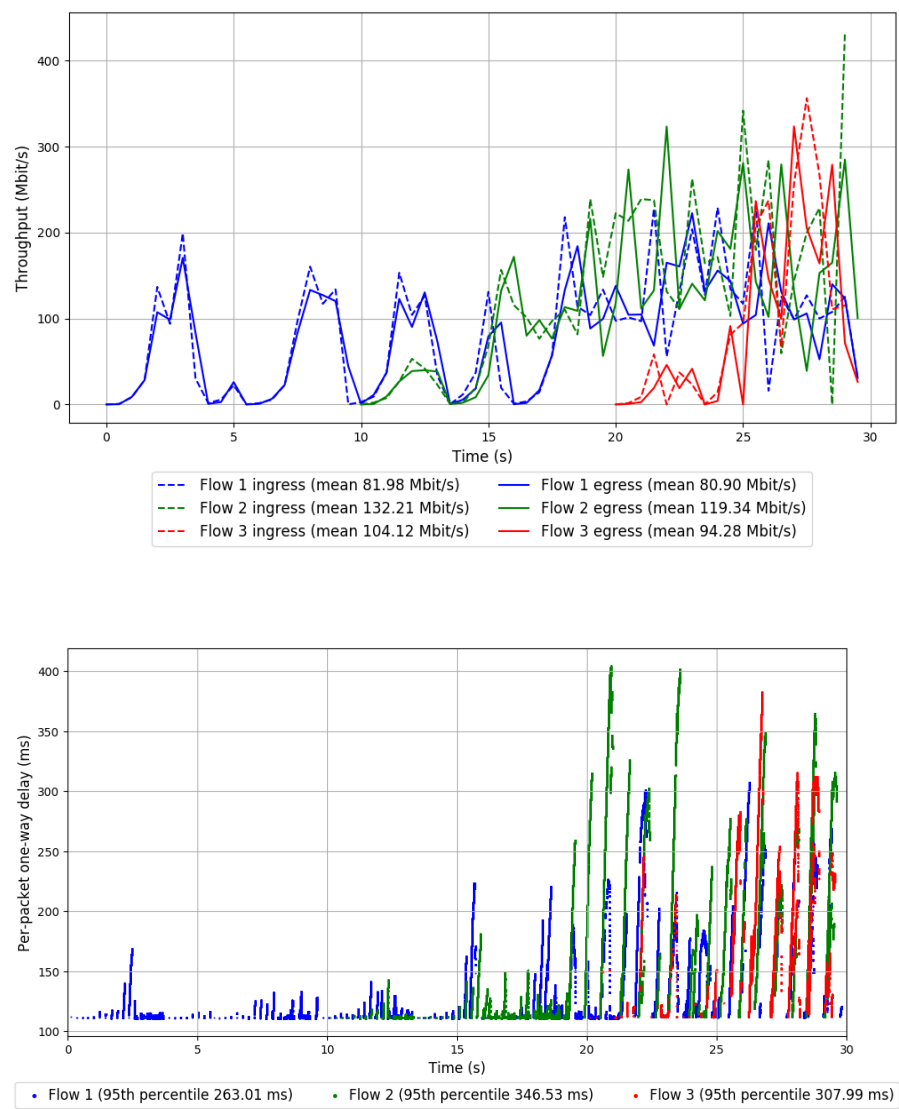
-- Flow 3:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 307.985 ms

Loss rate: 8.35%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 12:29:33

End at: 2018-01-26 12:30:03

Below is generated by plot.py at 2018-01-26 15:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.46 Mbit/s

95th percentile per-packet one-way delay: 293.163 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 140.62 Mbit/s

95th percentile per-packet one-way delay: 293.541 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 105.79 Mbit/s

95th percentile per-packet one-way delay: 295.276 ms

Loss rate: 0.26%

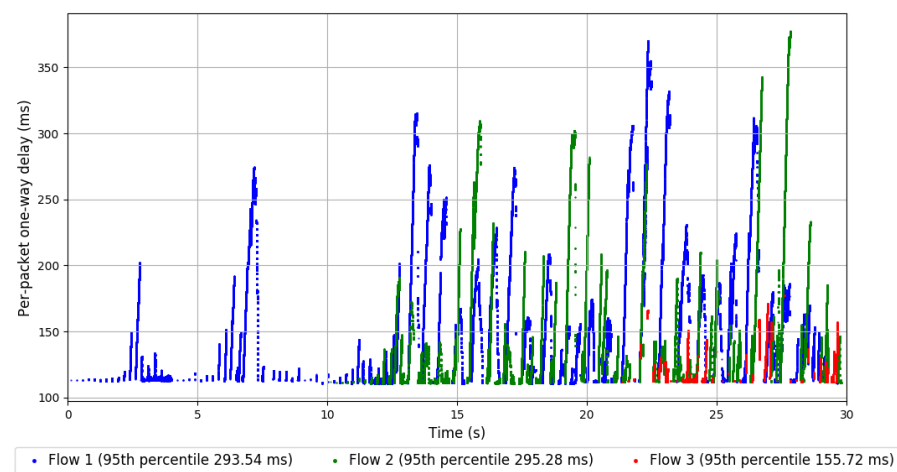
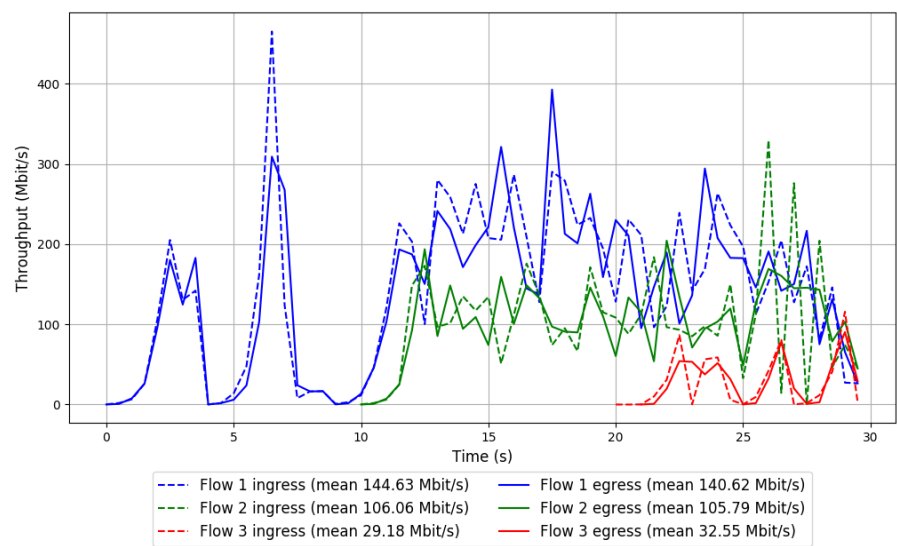
-- Flow 3:

Average throughput: 32.55 Mbit/s

95th percentile per-packet one-way delay: 155.725 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-26 12:45:03

End at: 2018-01-26 12:45:33

Below is generated by plot.py at 2018-01-26 15:45:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.72 Mbit/s

95th percentile per-packet one-way delay: 253.340 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 193.31 Mbit/s

95th percentile per-packet one-way delay: 255.616 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 85.74 Mbit/s

95th percentile per-packet one-way delay: 254.705 ms

Loss rate: 4.18%

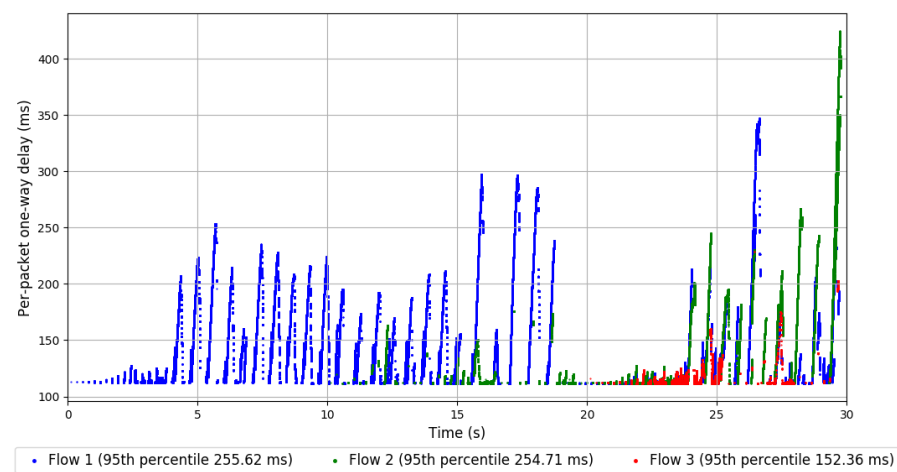
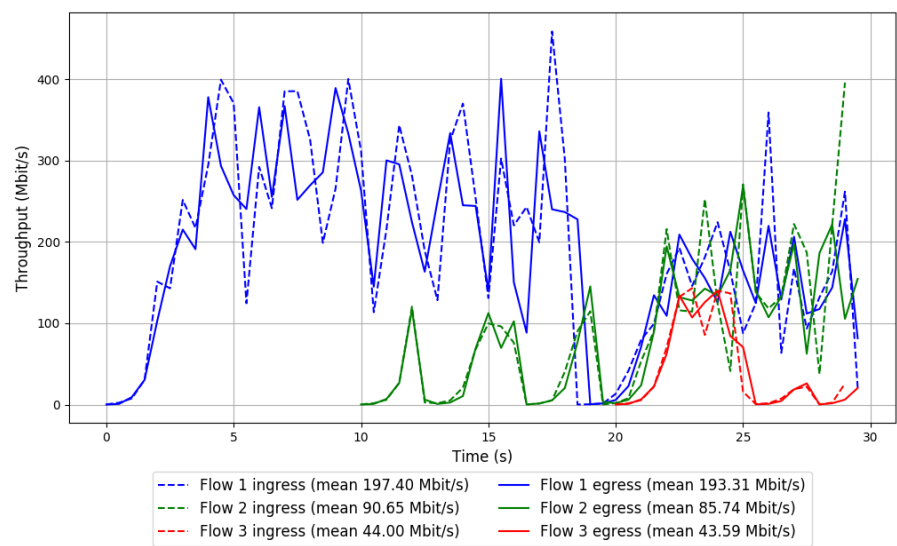
-- Flow 3:

Average throughput: 43.59 Mbit/s

95th percentile per-packet one-way delay: 152.363 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 13:00:55

End at: 2018-01-26 13:01:25

Below is generated by plot.py at 2018-01-26 15:45:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.71 Mbit/s

95th percentile per-packet one-way delay: 200.719 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 133.851 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 117.73 Mbit/s

95th percentile per-packet one-way delay: 227.536 ms

Loss rate: 0.21%

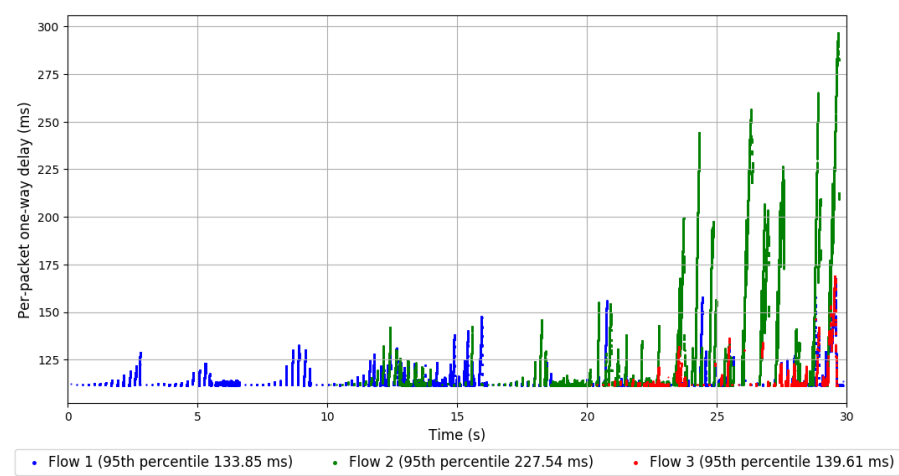
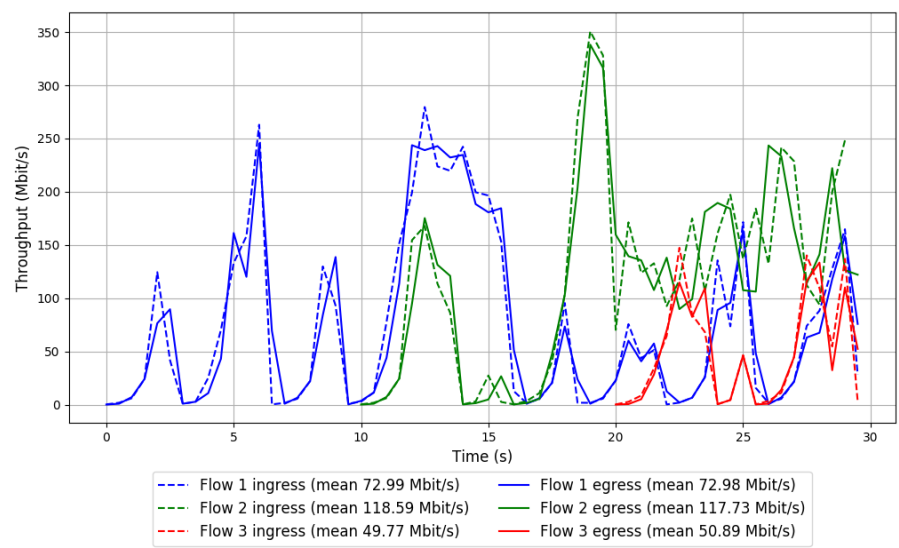
-- Flow 3:

Average throughput: 50.89 Mbit/s

95th percentile per-packet one-way delay: 139.611 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 13:16:49

End at: 2018-01-26 13:17:19

Below is generated by plot.py at 2018-01-26 15:45:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.97 Mbit/s

95th percentile per-packet one-way delay: 147.970 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 88.99 Mbit/s

95th percentile per-packet one-way delay: 145.704 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.48 Mbit/s

95th percentile per-packet one-way delay: 148.125 ms

Loss rate: 0.12%

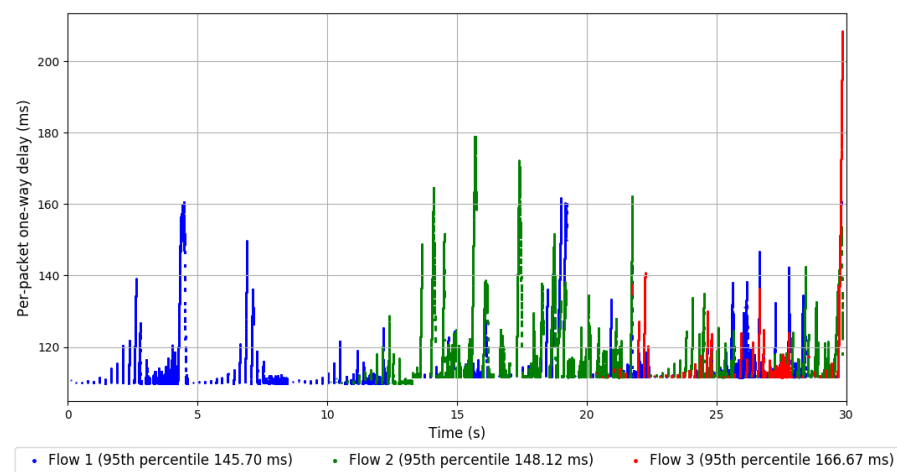
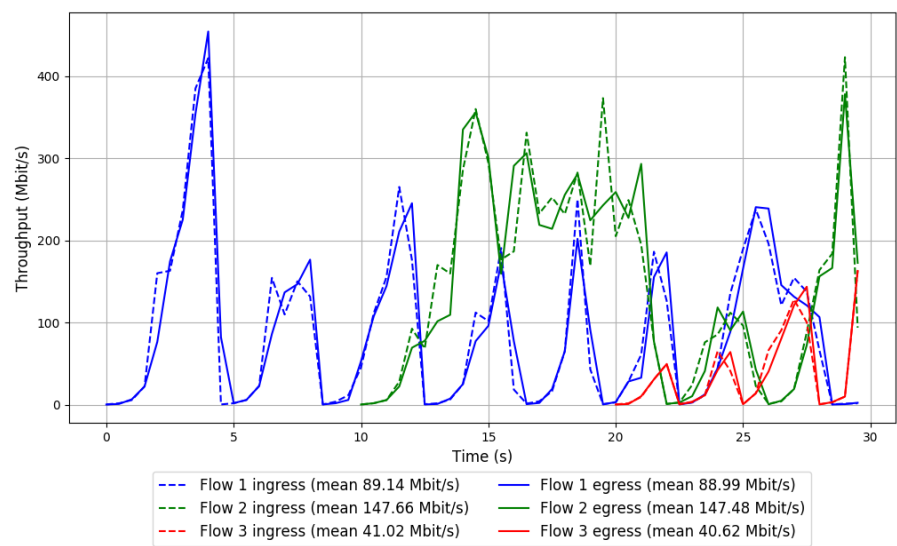
-- Flow 3:

Average throughput: 40.62 Mbit/s

95th percentile per-packet one-way delay: 166.673 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 13:32:06

End at: 2018-01-26 13:32:36

Below is generated by plot.py at 2018-01-26 15:45:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.76 Mbit/s

95th percentile per-packet one-way delay: 247.109 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 99.08 Mbit/s

95th percentile per-packet one-way delay: 165.427 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 157.53 Mbit/s

95th percentile per-packet one-way delay: 224.721 ms

Loss rate: 0.22%

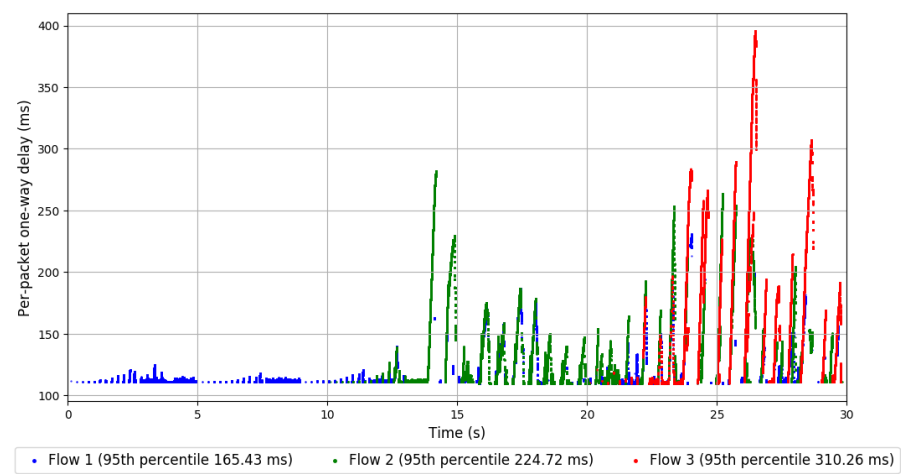
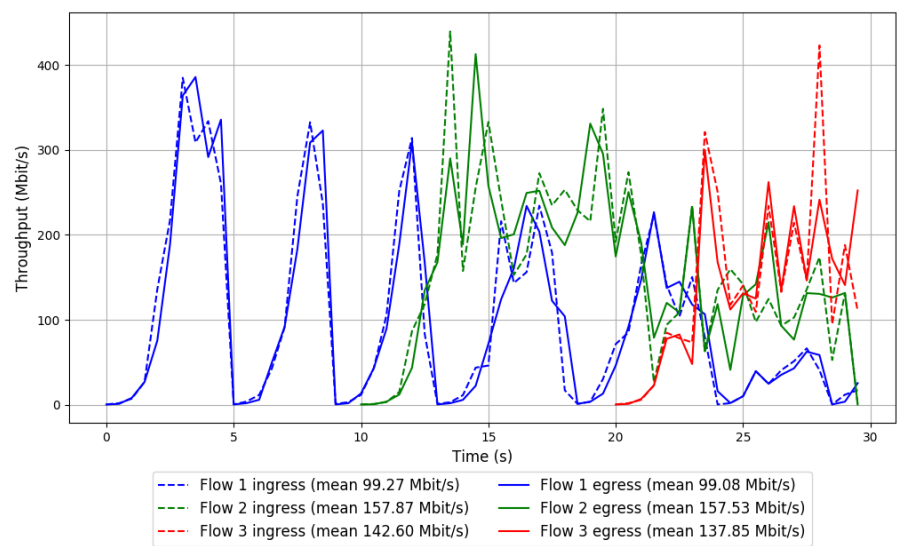
-- Flow 3:

Average throughput: 137.85 Mbit/s

95th percentile per-packet one-way delay: 310.260 ms

Loss rate: 3.32%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 13:48:04

End at: 2018-01-26 13:48:34

Below is generated by plot.py at 2018-01-26 15:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.24 Mbit/s

95th percentile per-packet one-way delay: 242.458 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 113.91 Mbit/s

95th percentile per-packet one-way delay: 271.013 ms

Loss rate: 2.38%

-- Flow 2:

Average throughput: 67.81 Mbit/s

95th percentile per-packet one-way delay: 178.048 ms

Loss rate: 0.00%

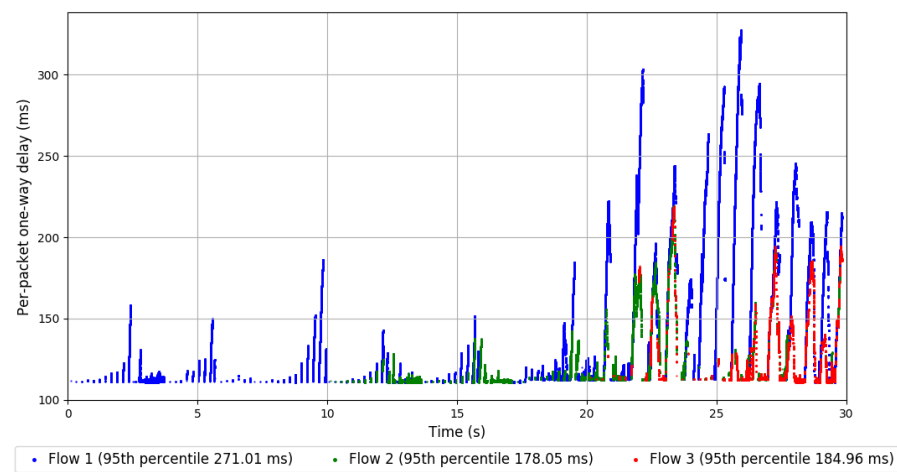
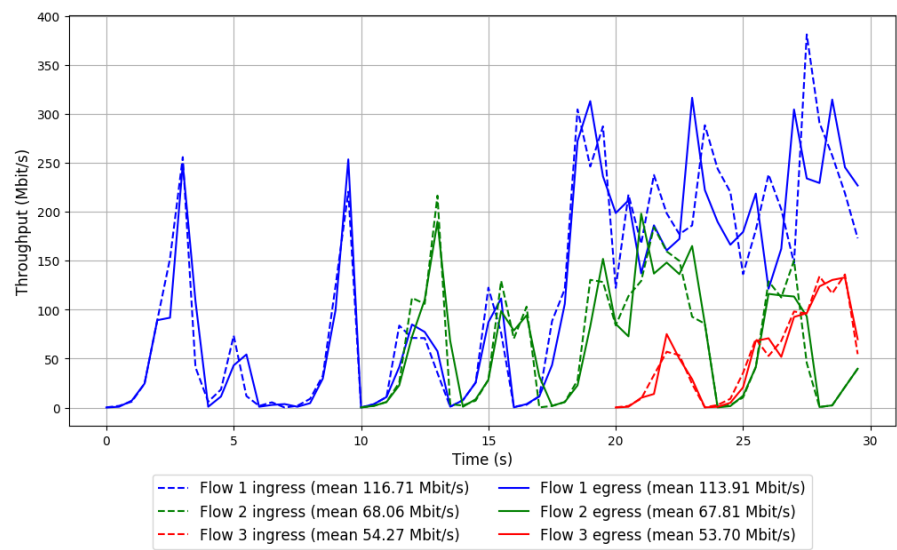
-- Flow 3:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 184.960 ms

Loss rate: 1.04%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 14:03:42

End at: 2018-01-26 14:04:12

Below is generated by plot.py at 2018-01-26 15:48:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 155.348 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 118.31 Mbit/s

95th percentile per-packet one-way delay: 148.253 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.90 Mbit/s

95th percentile per-packet one-way delay: 161.223 ms

Loss rate: 0.00%

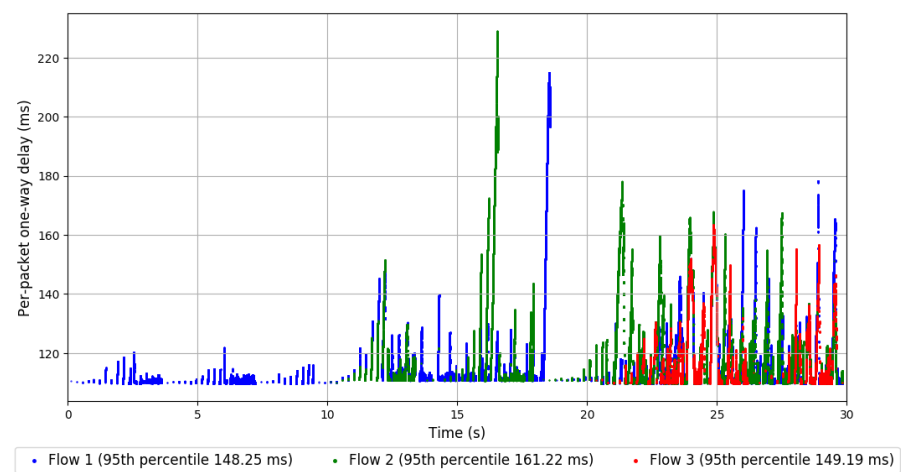
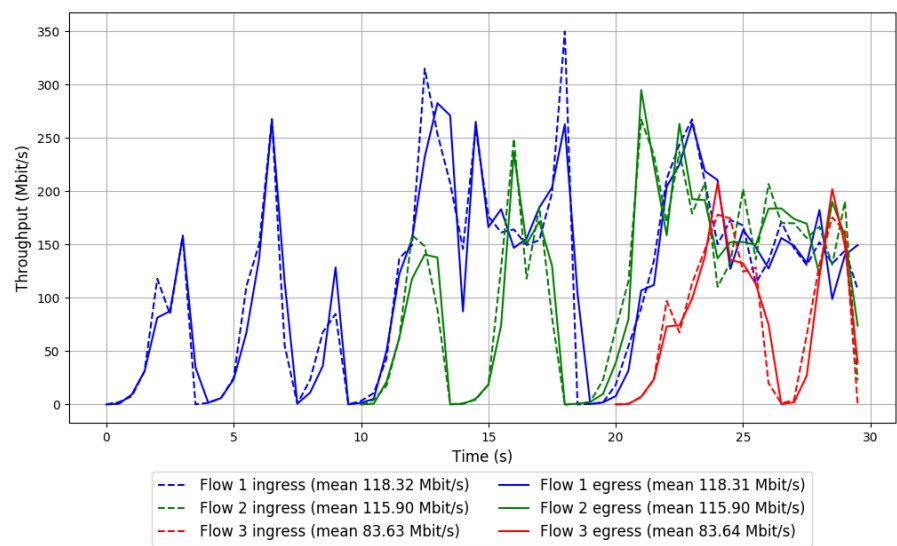
-- Flow 3:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 149.185 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 11:48:08

End at: 2018-01-26 11:48:38

Below is generated by plot.py at 2018-01-26 15:48:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.62 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 113.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 113.130 ms

Loss rate: 0.00%

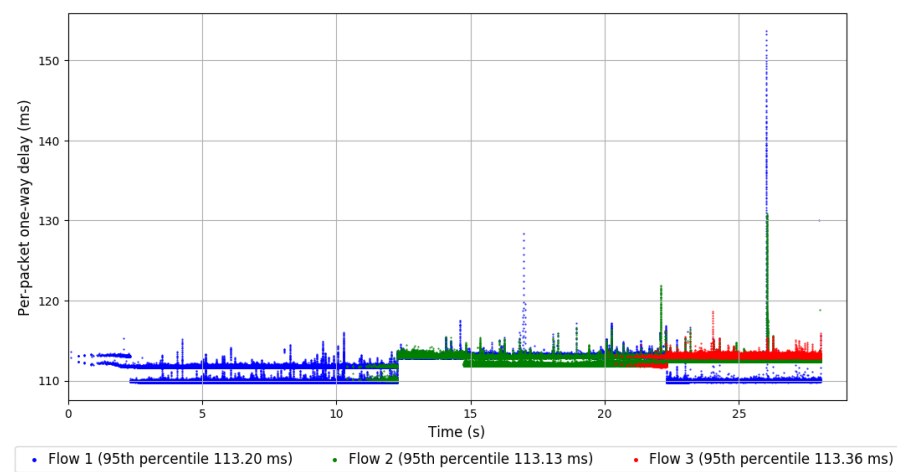
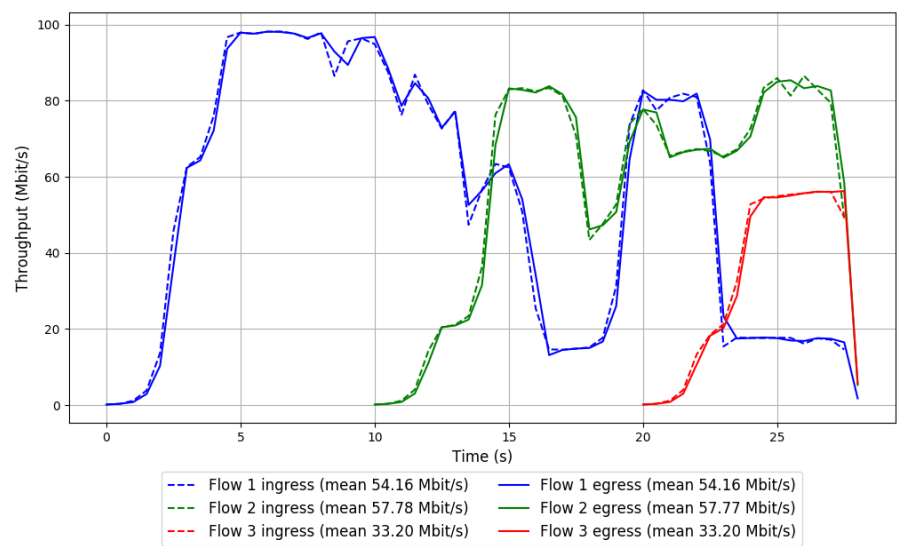
-- Flow 3:

Average throughput: 33.20 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 12:04:12

End at: 2018-01-26 12:04:42

Below is generated by plot.py at 2018-01-26 15:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.57 Mbit/s

95th percentile per-packet one-way delay: 113.260 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.61 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 112.076 ms

Loss rate: 0.00%

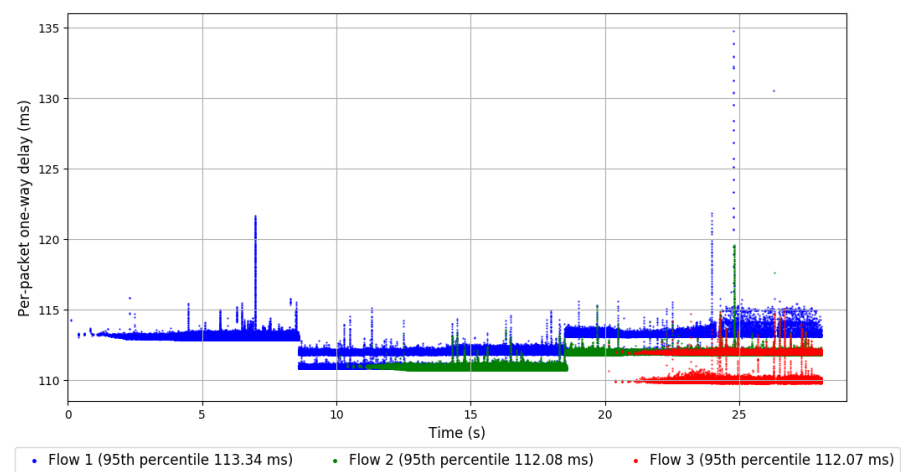
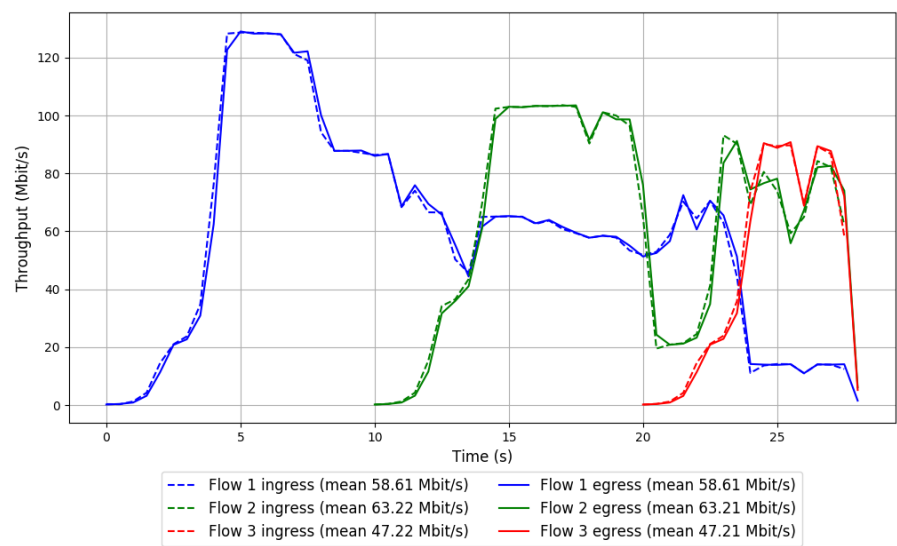
-- Flow 3:

Average throughput: 47.21 Mbit/s

95th percentile per-packet one-way delay: 112.070 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link

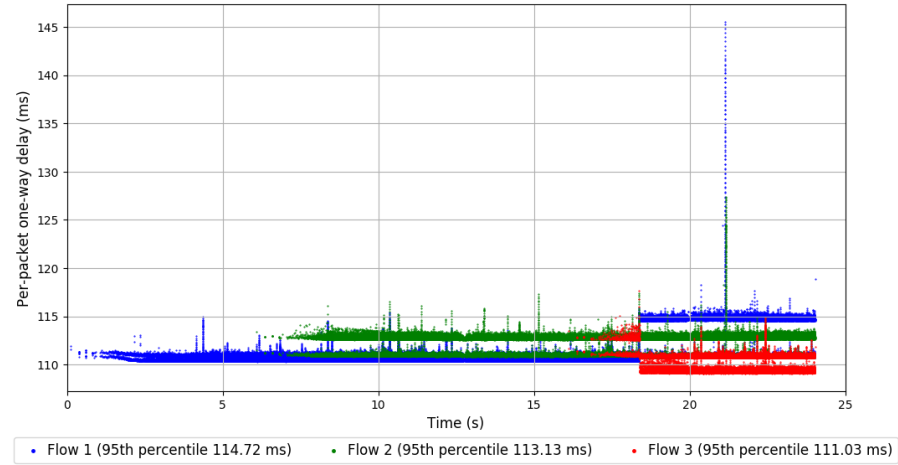
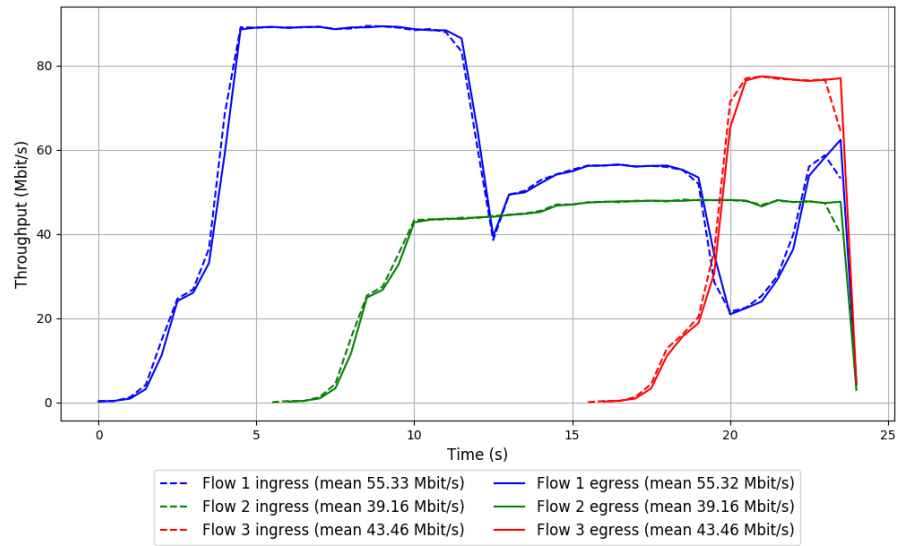


Run 3: Statistics of Copa

Start at: 2018-01-26 12:19:38

End at: 2018-01-26 12:20:08

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 12:34:59

End at: 2018-01-26 12:35:29

Below is generated by plot.py at 2018-01-26 15:48:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.15 Mbit/s

95th percentile per-packet one-way delay: 112.643 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.56 Mbit/s

95th percentile per-packet one-way delay: 112.674 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.01 Mbit/s

95th percentile per-packet one-way delay: 112.641 ms

Loss rate: 0.00%

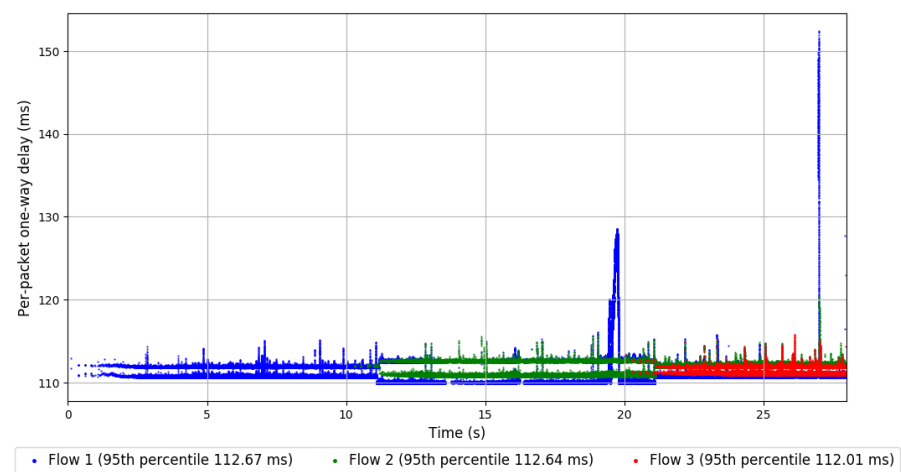
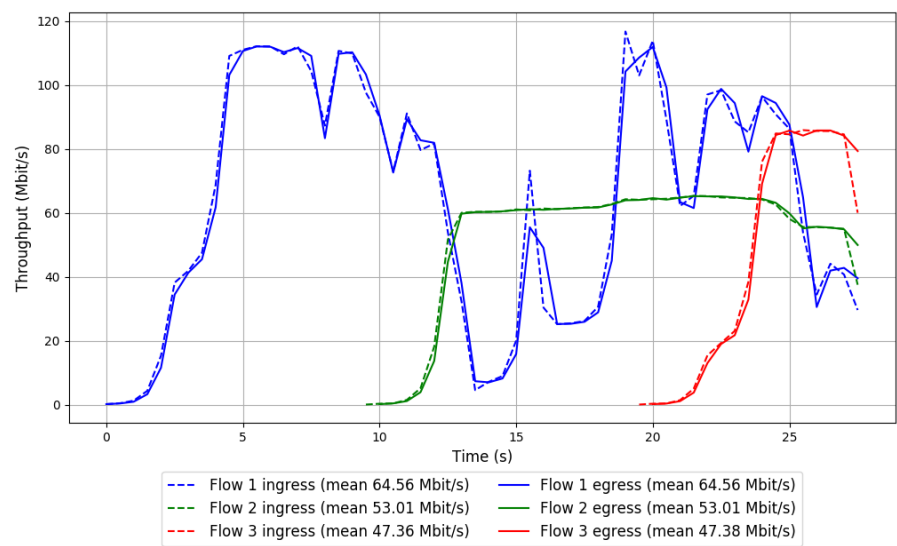
-- Flow 3:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 112.008 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 12:50:35

End at: 2018-01-26 12:51:05

Below is generated by plot.py at 2018-01-26 15:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.41 Mbit/s

95th percentile per-packet one-way delay: 112.560 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.47 Mbit/s

95th percentile per-packet one-way delay: 112.052 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.24 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 0.00%

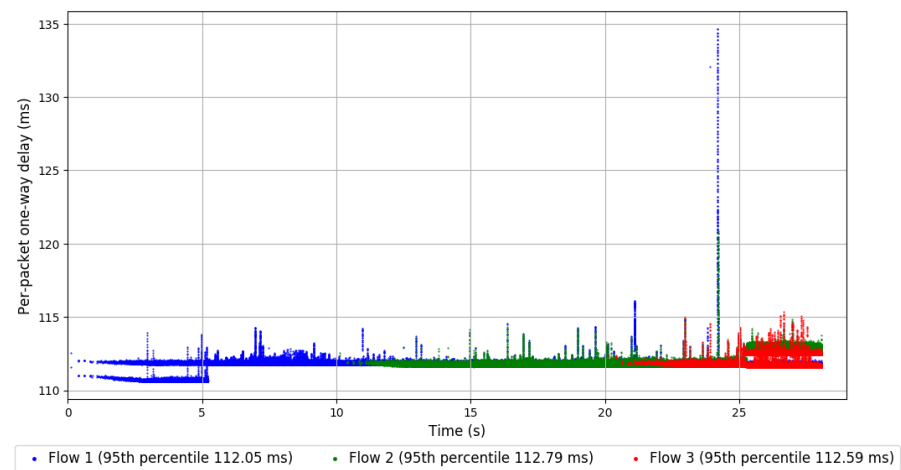
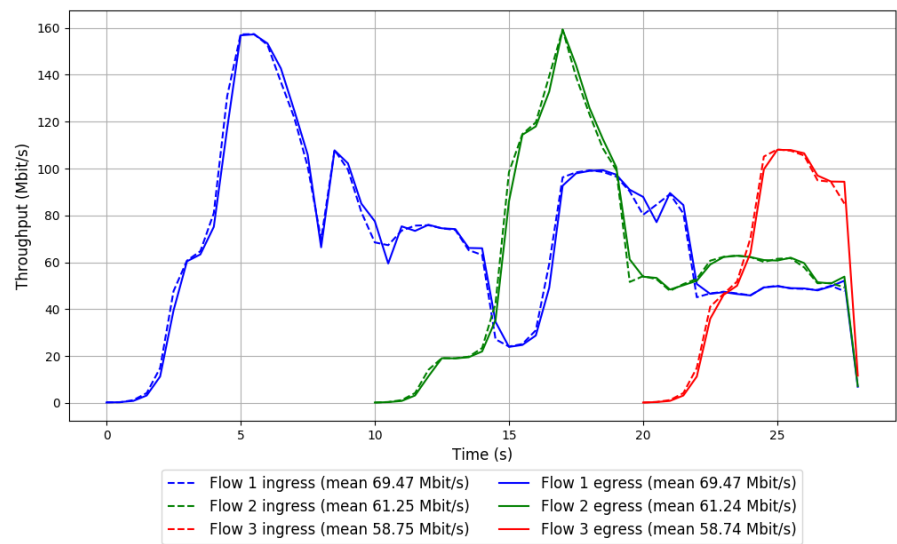
-- Flow 3:

Average throughput: 58.74 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 13:06:20

End at: 2018-01-26 13:06:50

Below is generated by plot.py at 2018-01-26 15:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.67 Mbit/s

95th percentile per-packet one-way delay: 111.731 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 111.731 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 111.741 ms

Loss rate: 0.00%

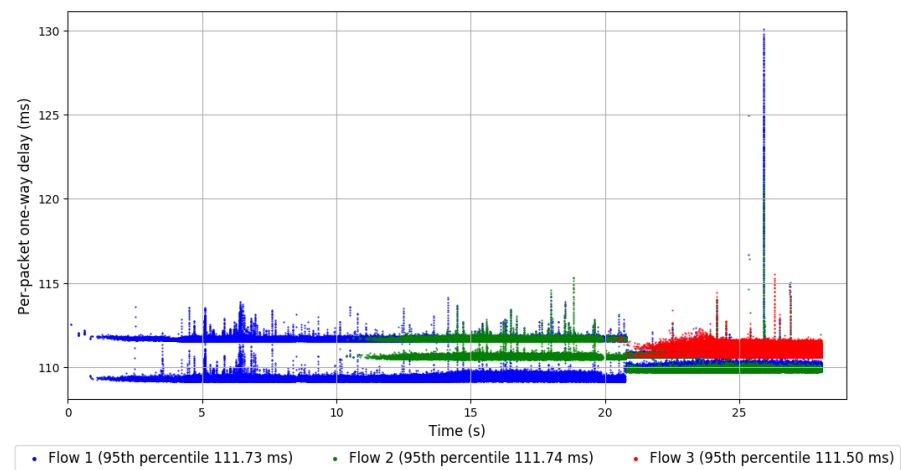
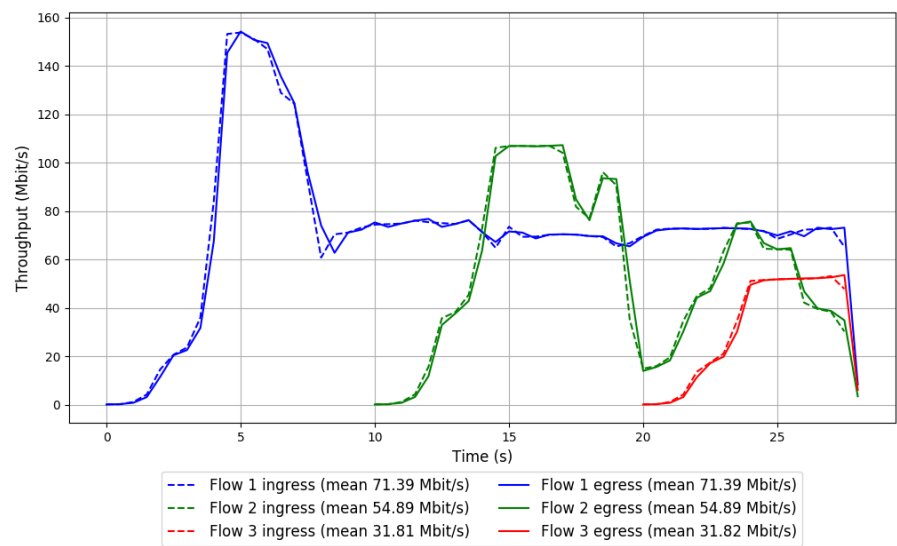
-- Flow 3:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 111.499 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 13:22:15

End at: 2018-01-26 13:22:45

Below is generated by plot.py at 2018-01-26 15:50:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.56 Mbit/s

95th percentile per-packet one-way delay: 111.824 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 111.844 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 112.563 ms

Loss rate: 0.00%

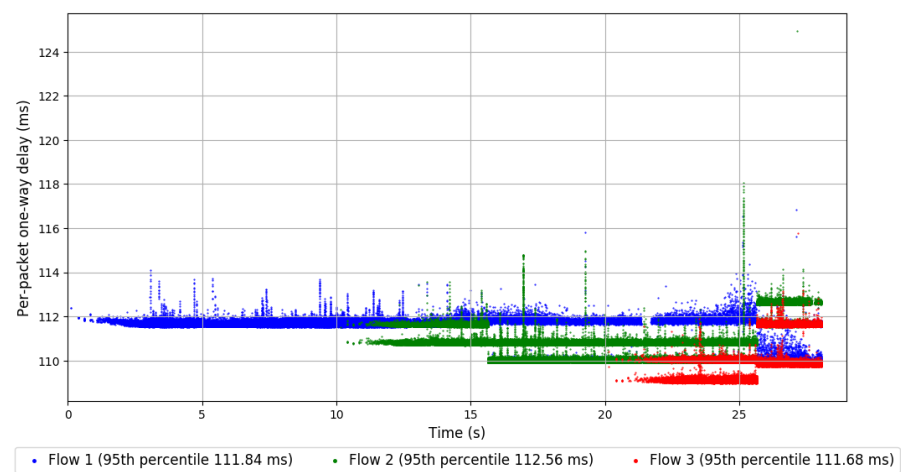
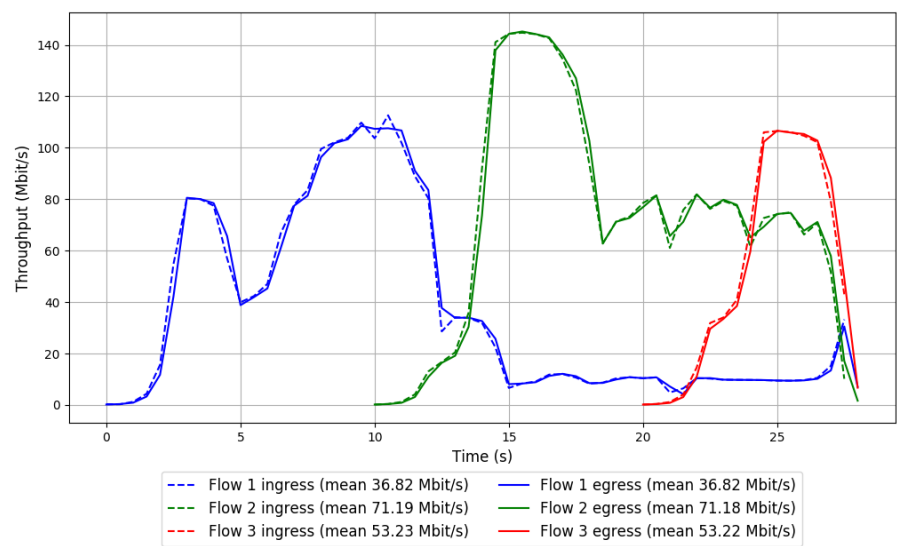
-- Flow 3:

Average throughput: 53.22 Mbit/s

95th percentile per-packet one-way delay: 111.678 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 13:37:40

End at: 2018-01-26 13:38:10

Below is generated by plot.py at 2018-01-26 15:51:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.39 Mbit/s

95th percentile per-packet one-way delay: 112.549 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.78 Mbit/s

95th percentile per-packet one-way delay: 112.540 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.76 Mbit/s

95th percentile per-packet one-way delay: 112.575 ms

Loss rate: 0.00%

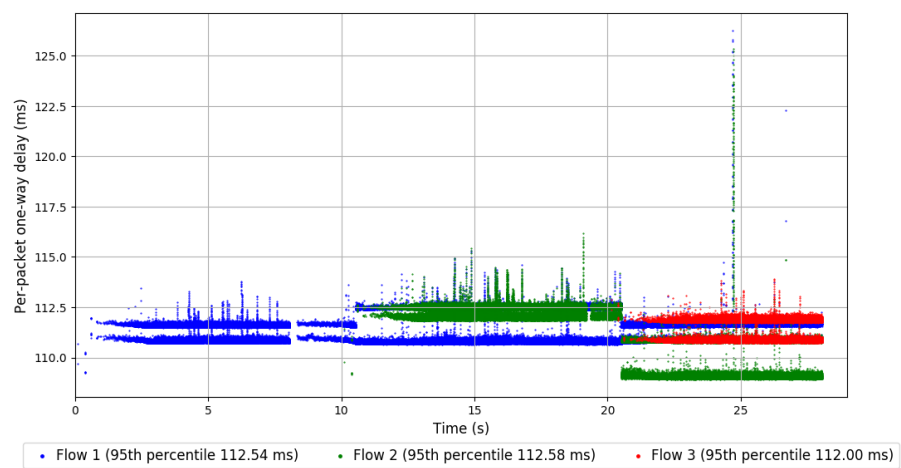
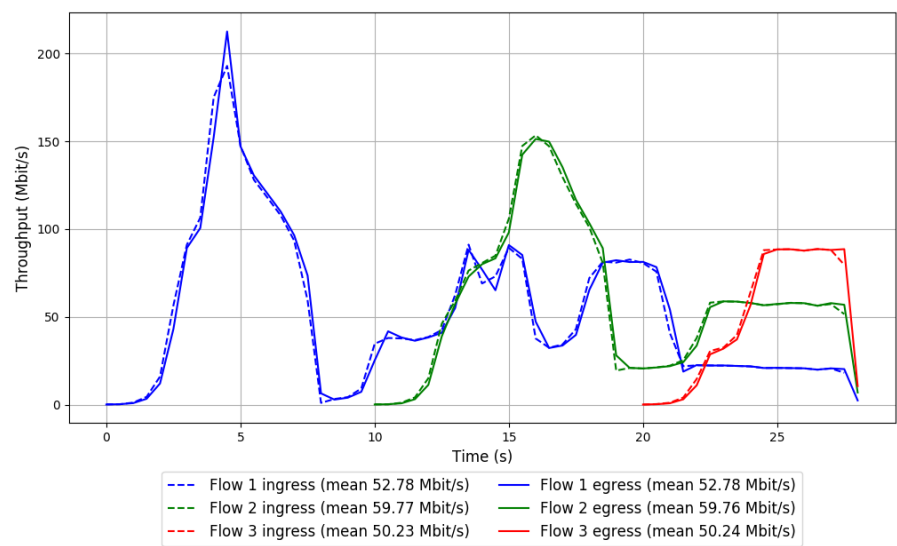
-- Flow 3:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 112.003 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 13:53:31

End at: 2018-01-26 13:54:01

Below is generated by plot.py at 2018-01-26 15:51:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.79 Mbit/s

95th percentile per-packet one-way delay: 112.520 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 112.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.14 Mbit/s

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

Loss rate: 0.00%

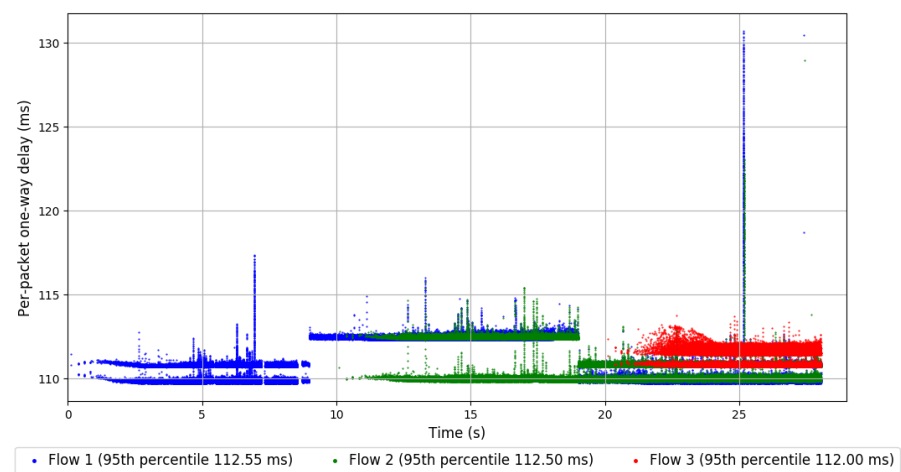
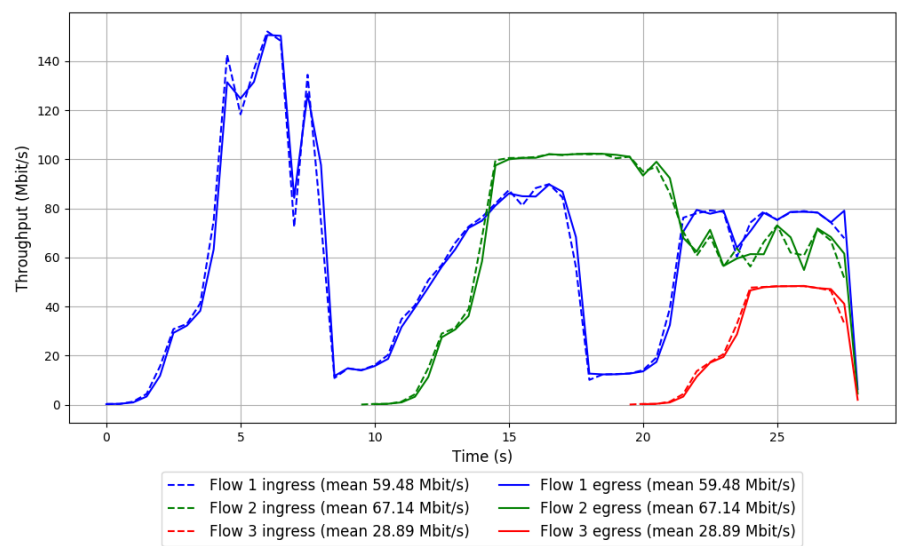
-- Flow 3:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 111.999 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 14:09:10

End at: 2018-01-26 14:09:40

Below is generated by plot.py at 2018-01-26 15:52:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.99 Mbit/s

95th percentile per-packet one-way delay: 111.765 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.45 Mbit/s

95th percentile per-packet one-way delay: 110.841 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 111.851 ms

Loss rate: 0.00%

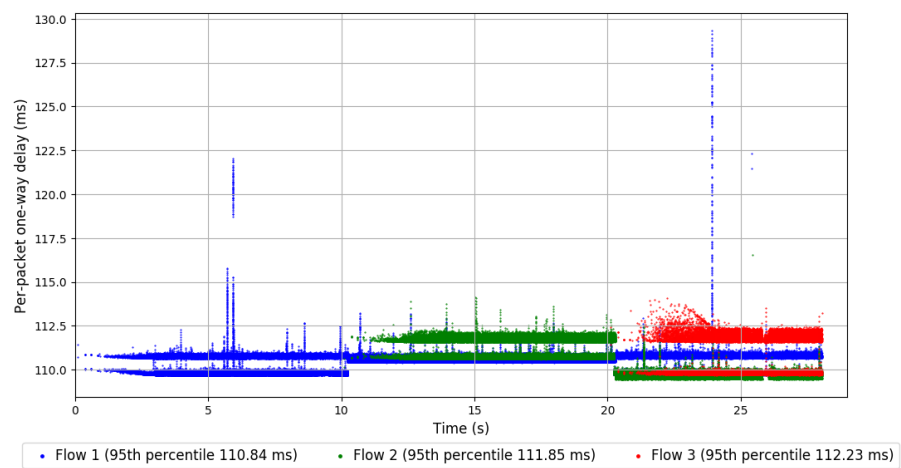
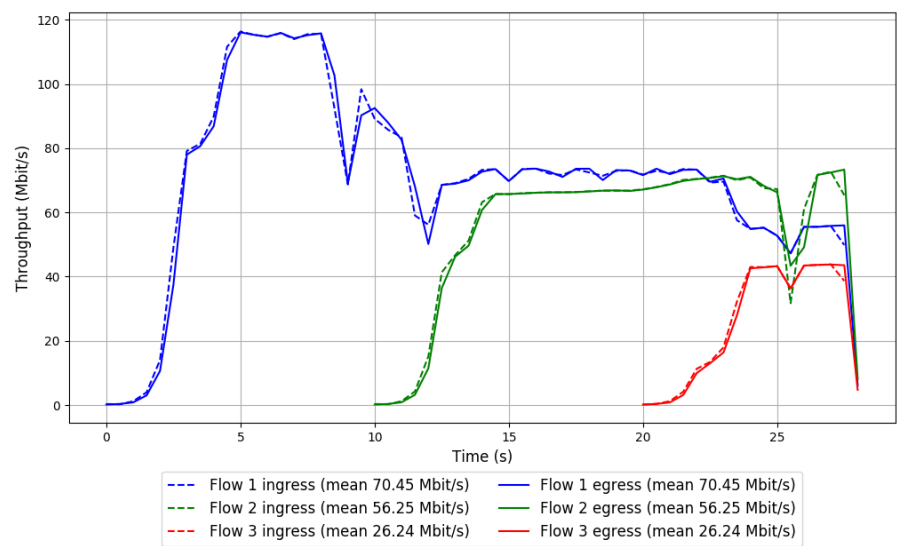
-- Flow 3:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 112.232 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

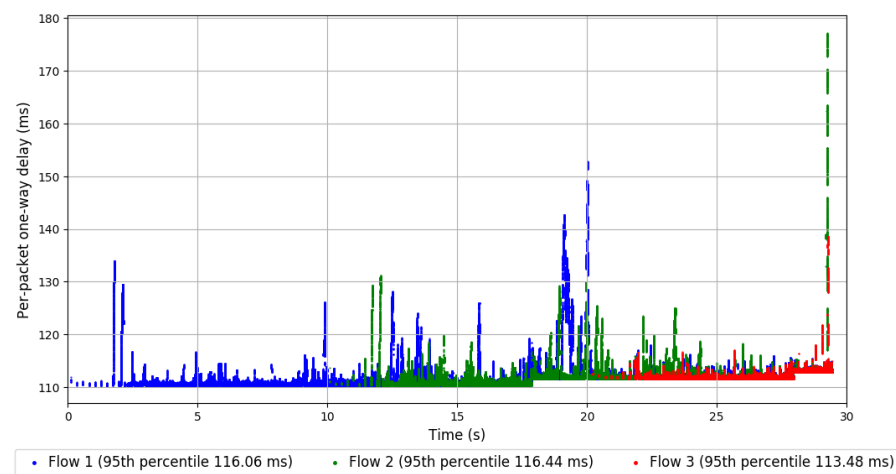
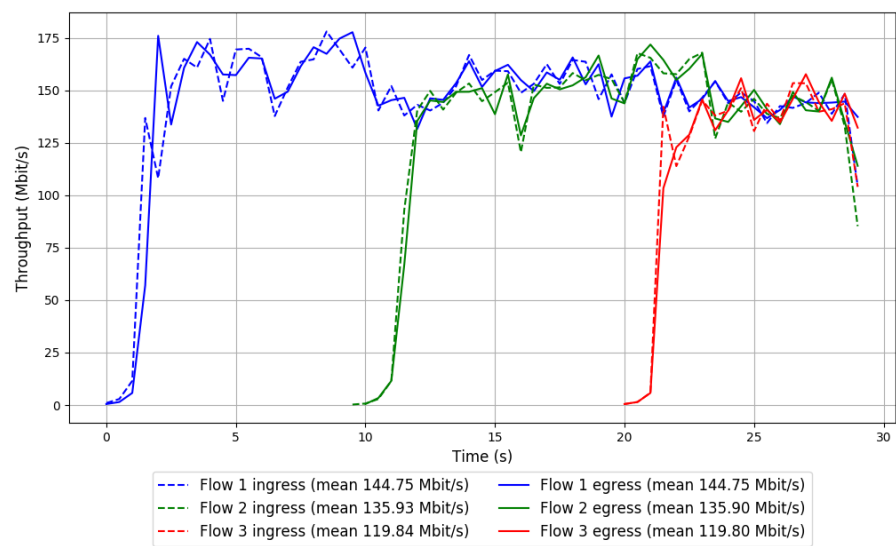


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 11:49:54
End at: 2018-01-26 11:50:24

# Below is generated by plot.py at 2018-01-26 15:53:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.90 Mbit/s
95th percentile per-packet one-way delay: 115.548 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 144.75 Mbit/s
95th percentile per-packet one-way delay: 116.064 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 135.90 Mbit/s
95th percentile per-packet one-way delay: 116.439 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 119.80 Mbit/s
95th percentile per-packet one-way delay: 113.484 ms
Loss rate: 0.03%
```


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

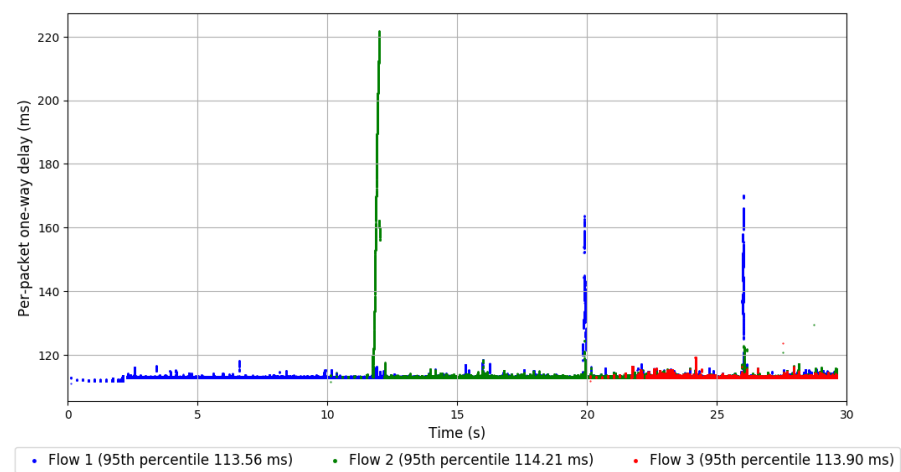
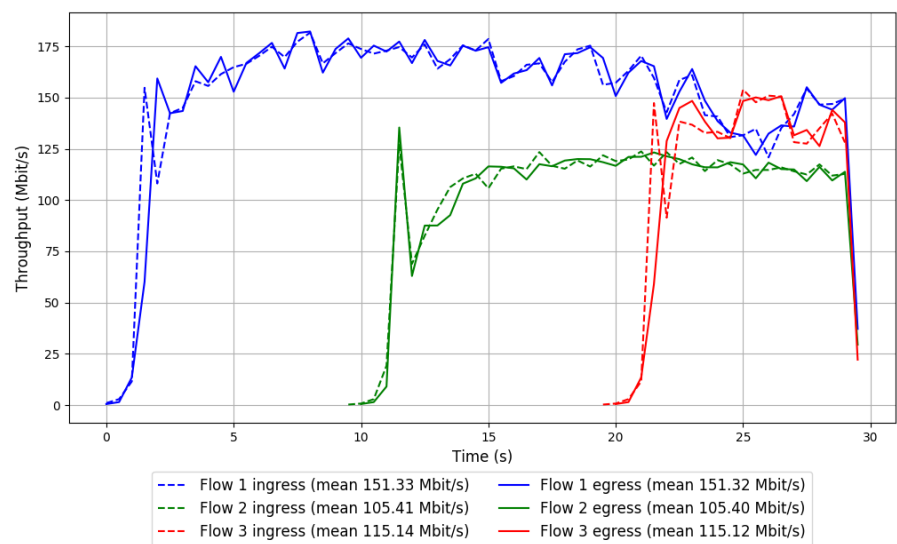


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 12:06:00
End at: 2018-01-26 12:06:30

# Below is generated by plot.py at 2018-01-26 15:53:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.10 Mbit/s
95th percentile per-packet one-way delay: 113.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.32 Mbit/s
95th percentile per-packet one-way delay: 113.558 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 105.40 Mbit/s
95th percentile per-packet one-way delay: 114.213 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.12 Mbit/s
95th percentile per-packet one-way delay: 113.902 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 12:21:22

End at: 2018-01-26 12:21:52

Below is generated by plot.py at 2018-01-26 15:54:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.80 Mbit/s

95th percentile per-packet one-way delay: 122.848 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.20 Mbit/s

95th percentile per-packet one-way delay: 126.926 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.80 Mbit/s

95th percentile per-packet one-way delay: 117.821 ms

Loss rate: 0.00%

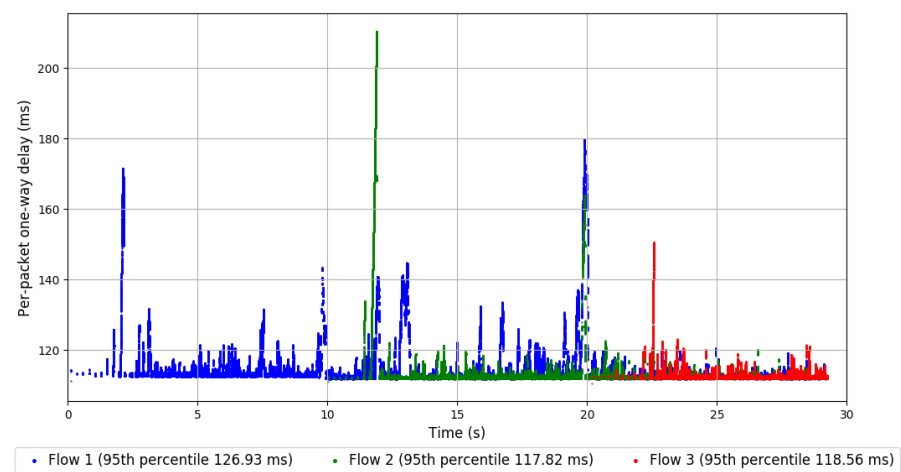
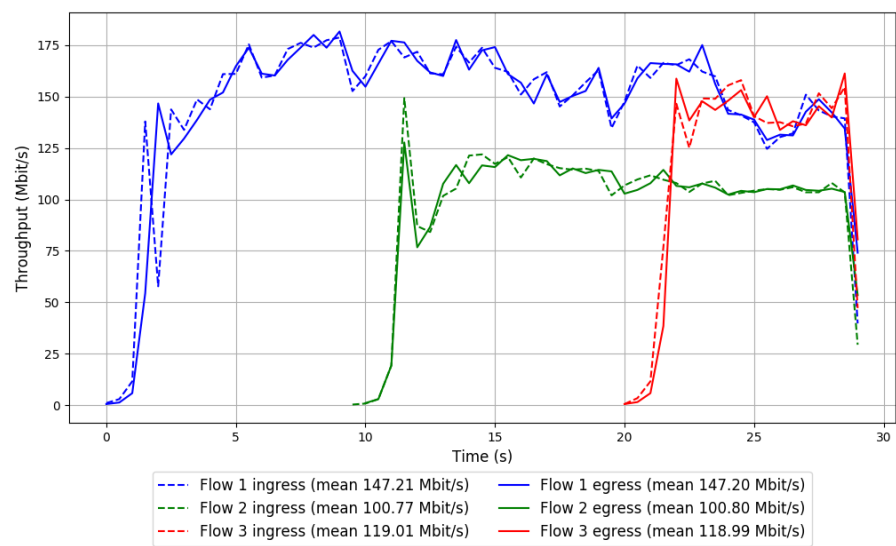
-- Flow 3:

Average throughput: 118.99 Mbit/s

95th percentile per-packet one-way delay: 118.557 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 12:36:47

End at: 2018-01-26 12:37:17

Below is generated by plot.py at 2018-01-26 15:55:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.69 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.68 Mbit/s

95th percentile per-packet one-way delay: 113.073 ms

Loss rate: 0.00%

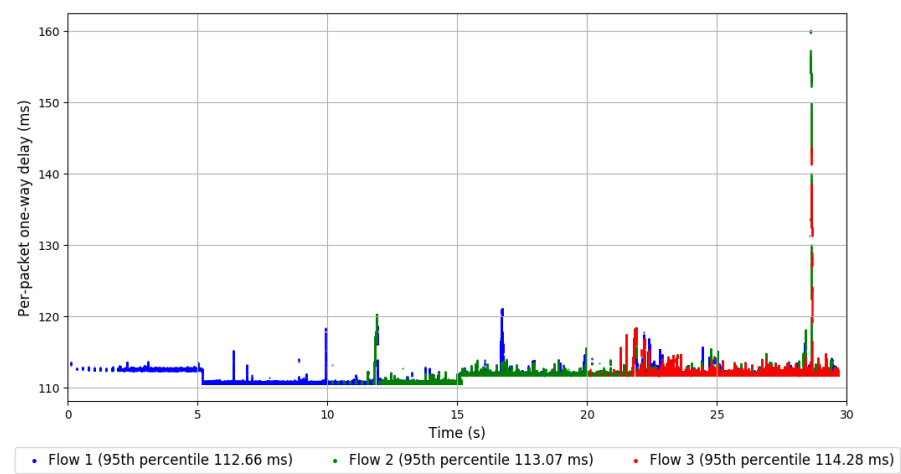
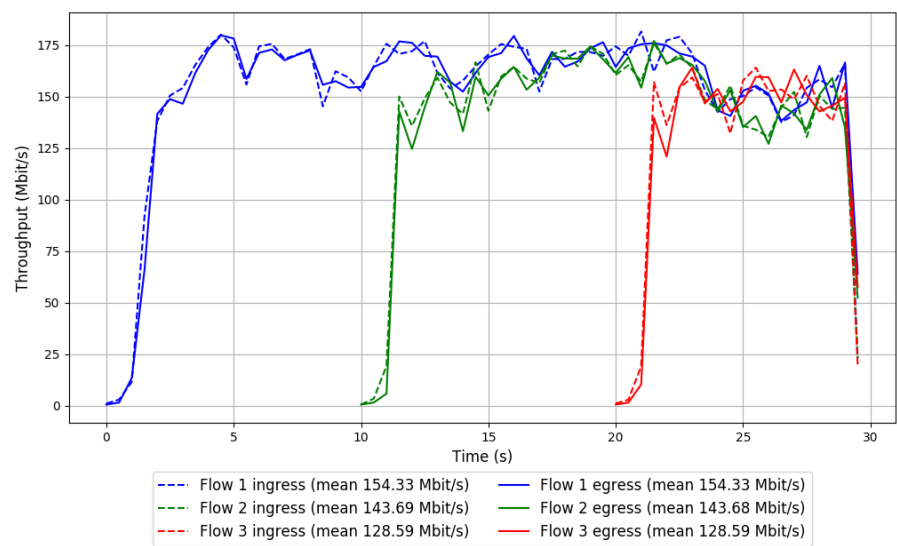
-- Flow 3:

Average throughput: 128.59 Mbit/s

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

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 12:52:23

End at: 2018-01-26 12:52:53

Below is generated by plot.py at 2018-01-26 15:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.03 Mbit/s

95th percentile per-packet one-way delay: 112.286 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 164.56 Mbit/s

95th percentile per-packet one-way delay: 112.132 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 133.535 ms

Loss rate: 0.58%

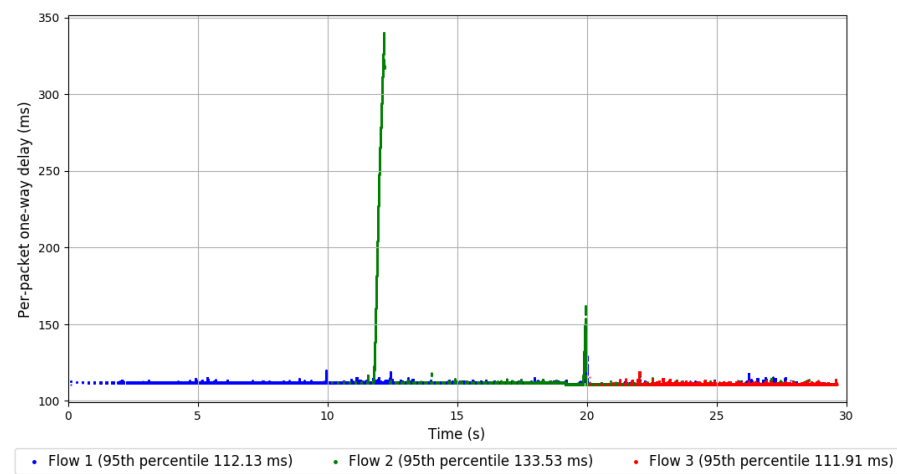
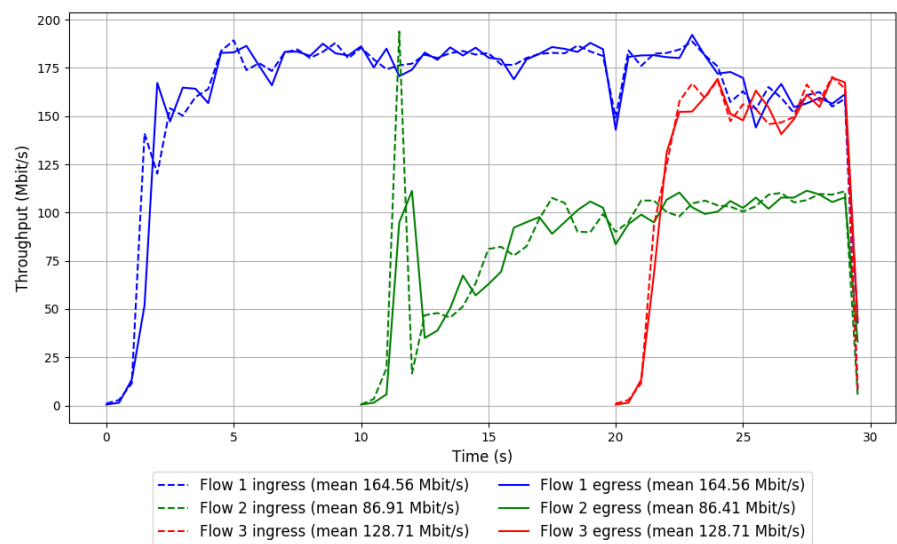
-- Flow 3:

Average throughput: 128.71 Mbit/s

95th percentile per-packet one-way delay: 111.911 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 13:08:06

End at: 2018-01-26 13:08:36

Below is generated by plot.py at 2018-01-26 15:56:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.71 Mbit/s

95th percentile per-packet one-way delay: 111.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 159.74 Mbit/s

95th percentile per-packet one-way delay: 111.146 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.71 Mbit/s

95th percentile per-packet one-way delay: 112.092 ms

Loss rate: 0.00%

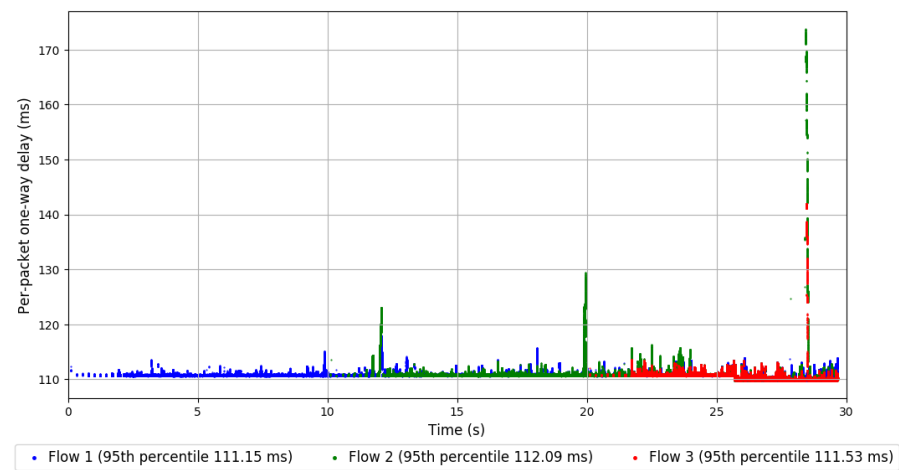
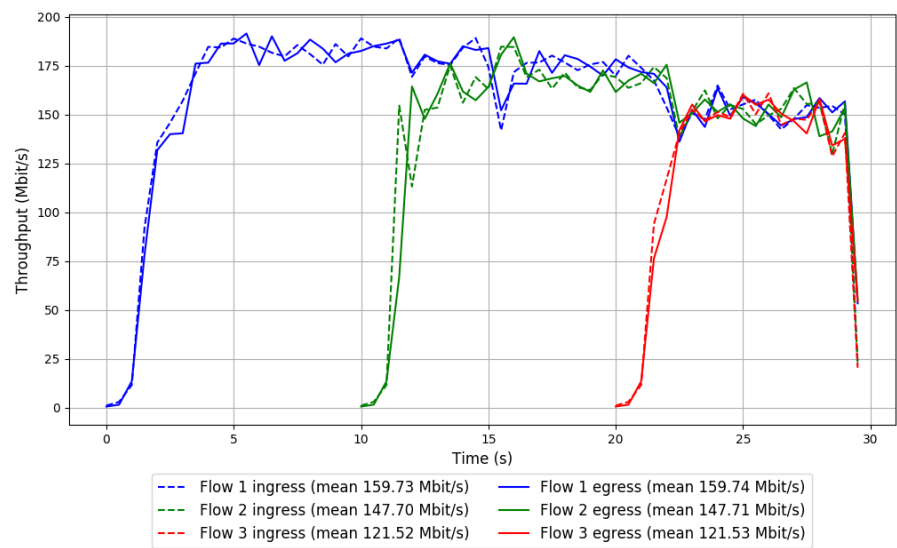
-- Flow 3:

Average throughput: 121.53 Mbit/s

95th percentile per-packet one-way delay: 111.528 ms

Loss rate: 0.00%

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

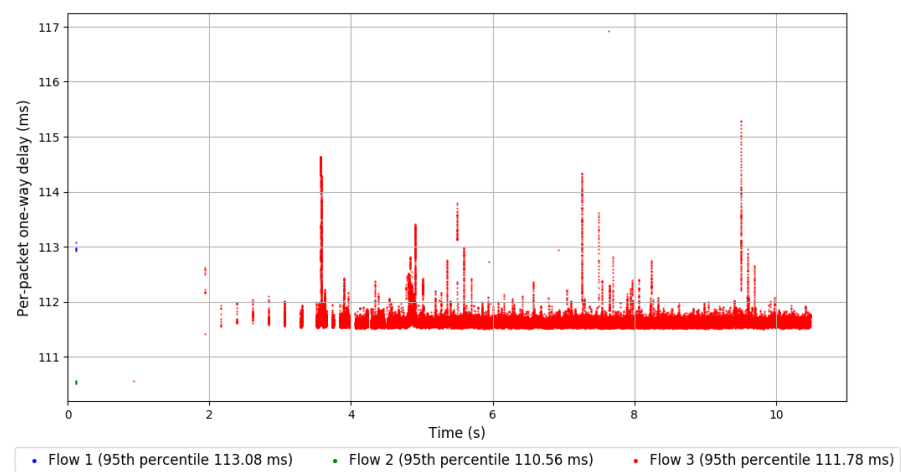
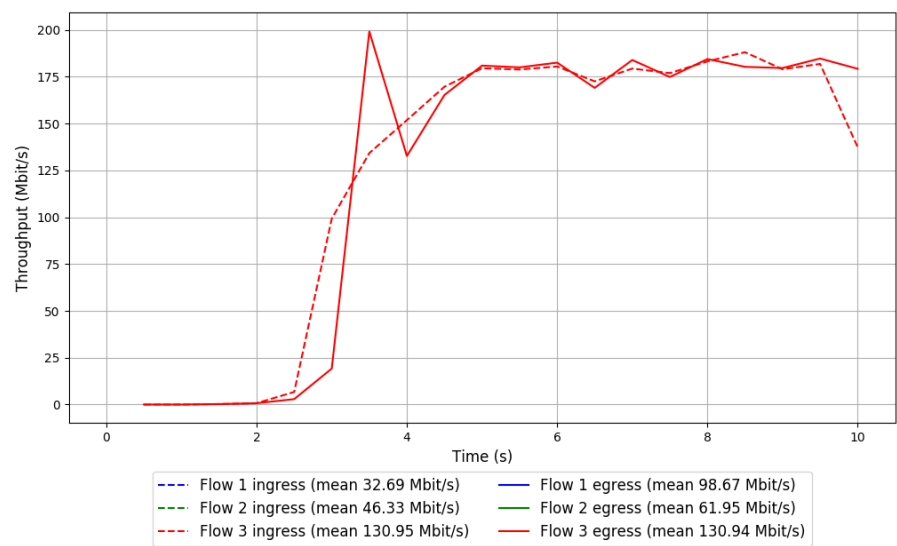


Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 13:23:59

End at: 2018-01-26 13:24:29

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



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 13:39:26

End at: 2018-01-26 13:39:56

Below is generated by plot.py at 2018-01-26 15:57:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.23 Mbit/s

95th percentile per-packet one-way delay: 112.202 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.38 Mbit/s

95th percentile per-packet one-way delay: 112.032 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.24 Mbit/s

95th percentile per-packet one-way delay: 112.465 ms

Loss rate: 0.00%

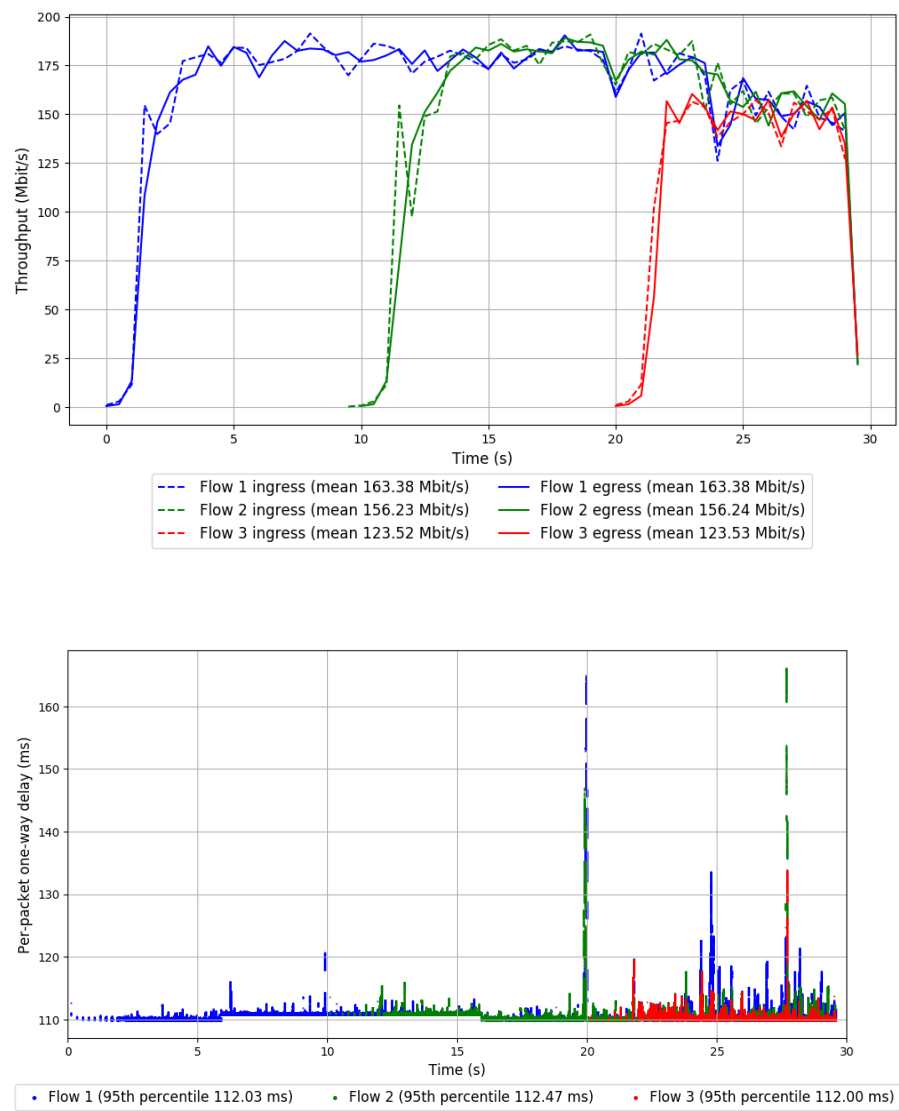
-- Flow 3:

Average throughput: 123.53 Mbit/s

95th percentile per-packet one-way delay: 112.005 ms

Loss rate: 0.00%

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

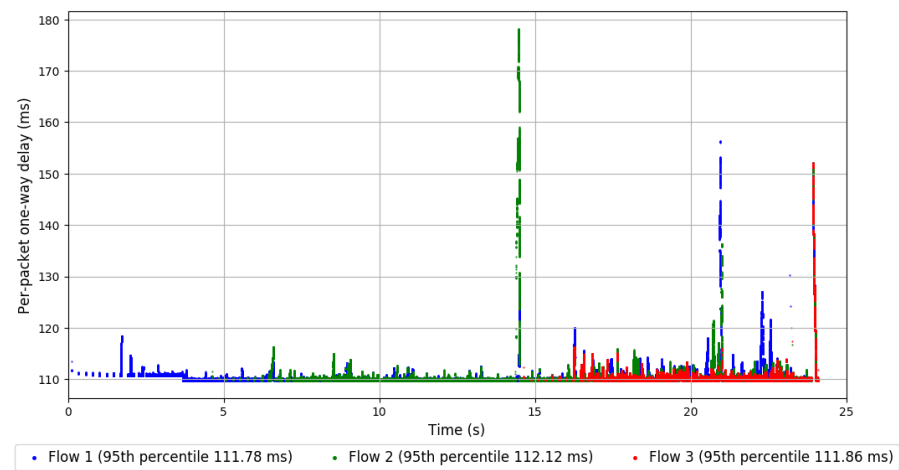
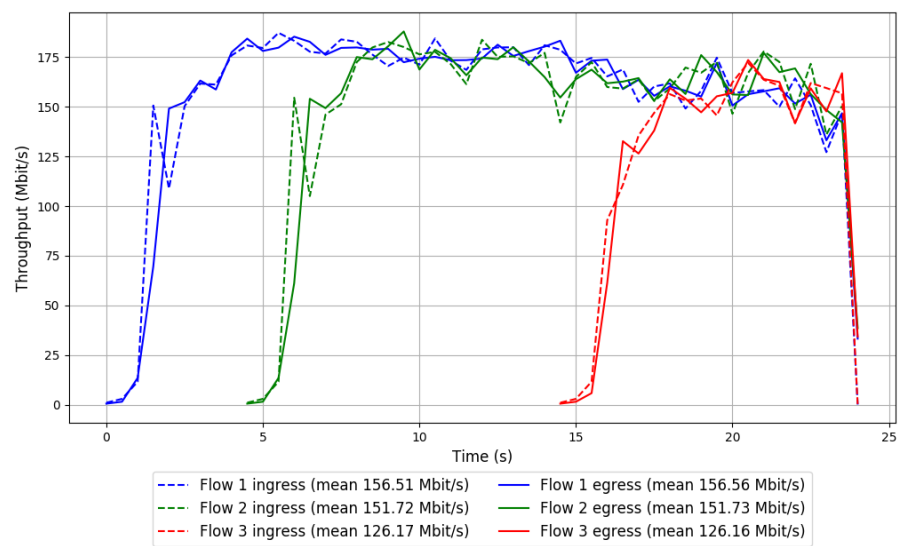


Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 13:55:19

End at: 2018-01-26 13:55:49

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



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 14:10:56

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

Below is generated by plot.py at 2018-01-26 15:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.85 Mbit/s

95th percentile per-packet one-way delay: 110.296 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.39 Mbit/s

95th percentile per-packet one-way delay: 110.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.04 Mbit/s

95th percentile per-packet one-way delay: 110.373 ms

Loss rate: 0.00%

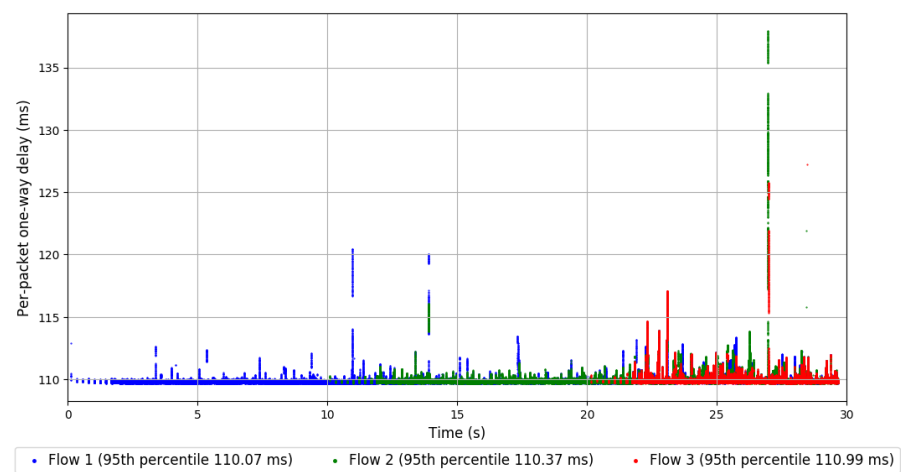
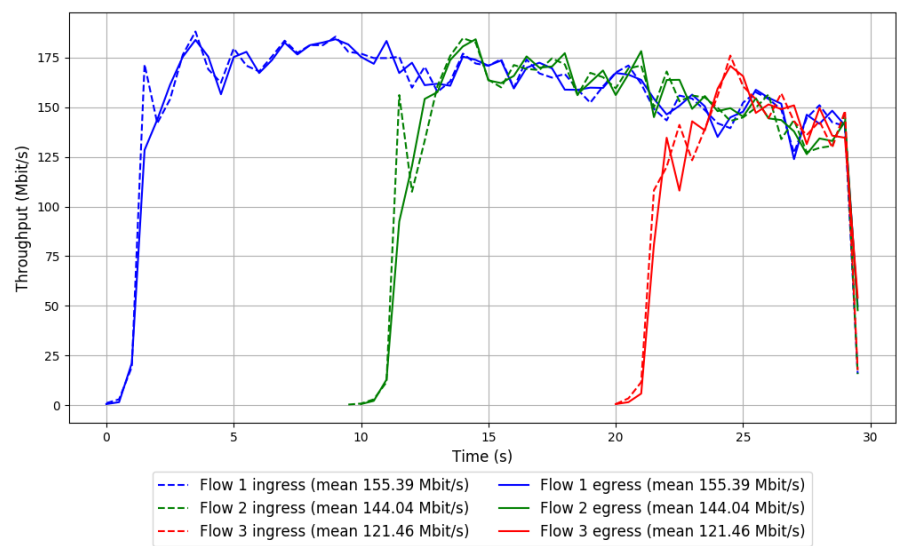
-- Flow 3:

Average throughput: 121.46 Mbit/s

95th percentile per-packet one-way delay: 110.988 ms

Loss rate: 0.00%

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

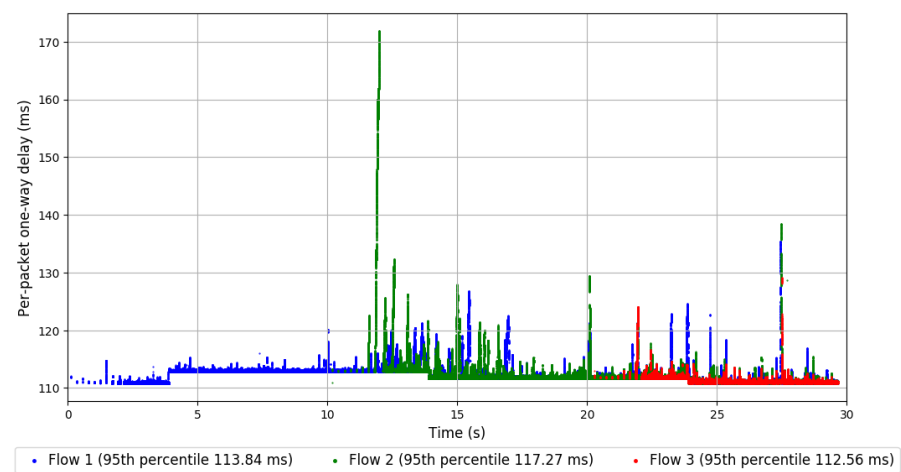
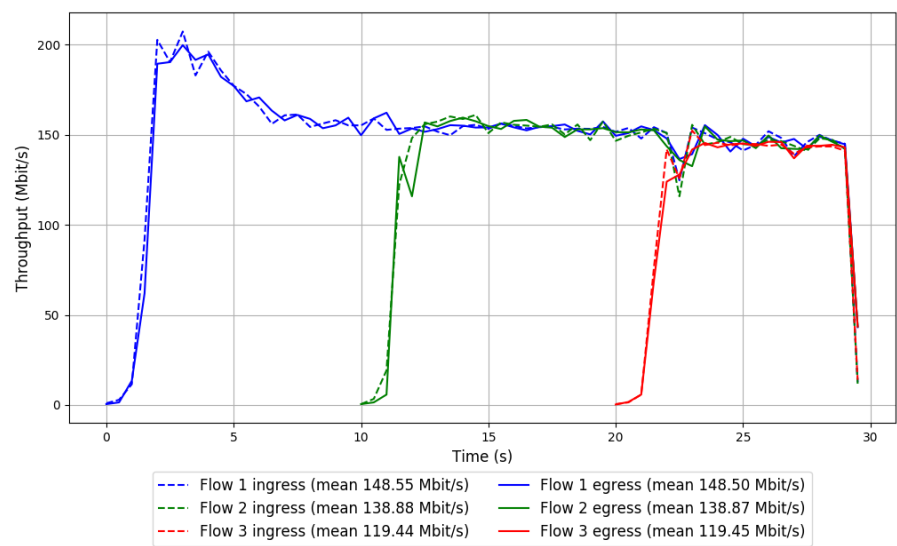


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 11:53:08
End at: 2018-01-26 11:53:38

# Below is generated by plot.py at 2018-01-26 15:59:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.90 Mbit/s
95th percentile per-packet one-way delay: 114.460 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 148.50 Mbit/s
95th percentile per-packet one-way delay: 113.842 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 138.87 Mbit/s
95th percentile per-packet one-way delay: 117.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.45 Mbit/s
95th percentile per-packet one-way delay: 112.556 ms
Loss rate: 0.01%
```

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

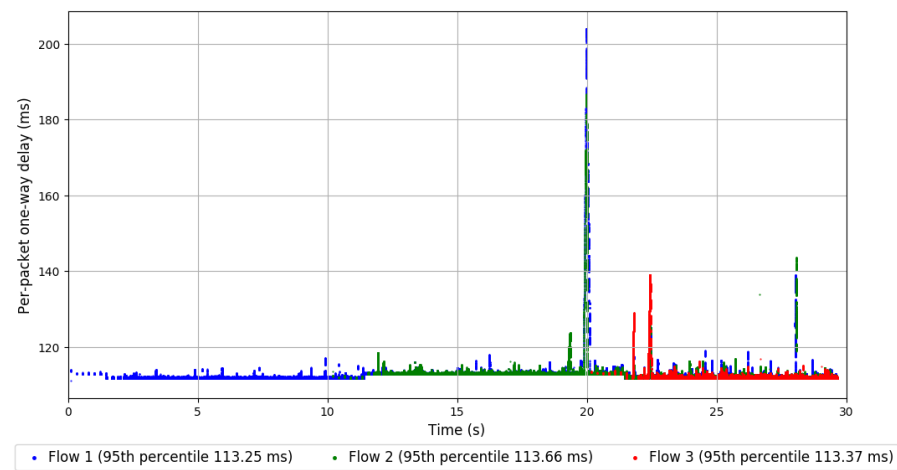
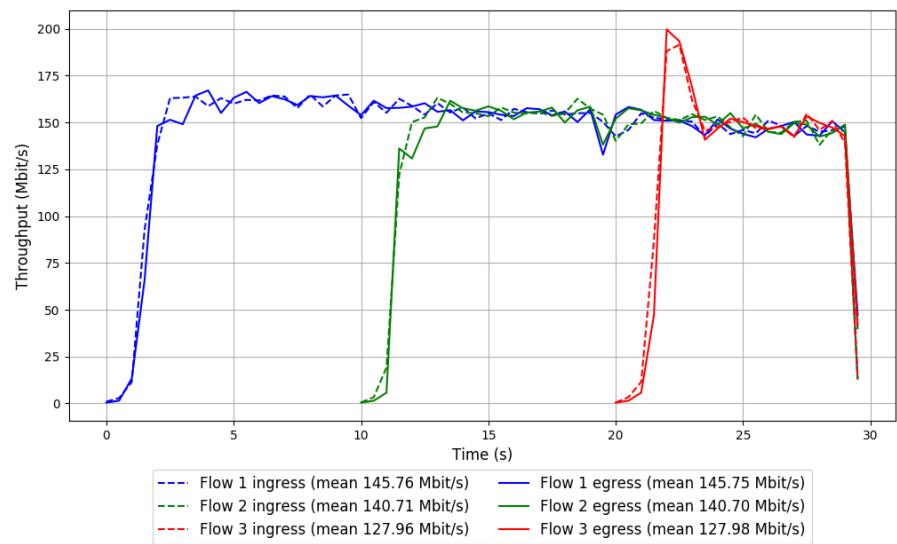


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 12:08:51
End at: 2018-01-26 12:09:21

# Below is generated by plot.py at 2018-01-26 15:59:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.47 Mbit/s
95th percentile per-packet one-way delay: 113.383 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 145.75 Mbit/s
95th percentile per-packet one-way delay: 113.251 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 140.70 Mbit/s
95th percentile per-packet one-way delay: 113.660 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 127.98 Mbit/s
95th percentile per-packet one-way delay: 113.374 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 12:24:18

End at: 2018-01-26 12:24:48

Below is generated by plot.py at 2018-01-26 15:59:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.51 Mbit/s

95th percentile per-packet one-way delay: 140.276 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 122.59 Mbit/s

95th percentile per-packet one-way delay: 142.415 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 117.86 Mbit/s

95th percentile per-packet one-way delay: 130.508 ms

Loss rate: 0.01%

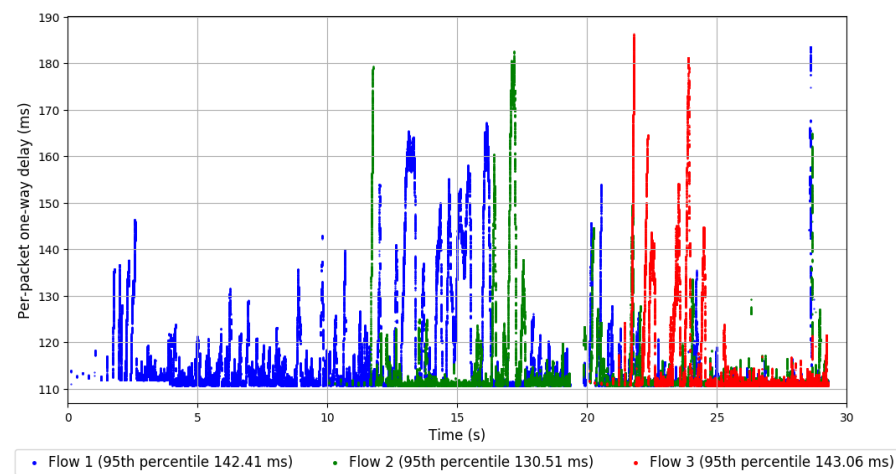
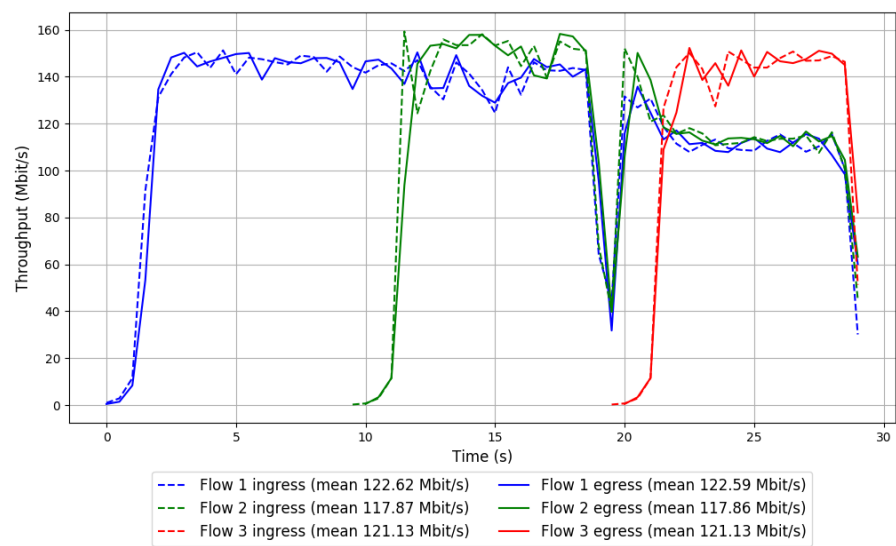
-- Flow 3:

Average throughput: 121.13 Mbit/s

95th percentile per-packet one-way delay: 143.059 ms

Loss rate: 0.01%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 12:39:44

End at: 2018-01-26 12:40:14

Below is generated by plot.py at 2018-01-26 16:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.75 Mbit/s

95th percentile per-packet one-way delay: 111.934 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 151.06 Mbit/s

95th percentile per-packet one-way delay: 111.894 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 137.52 Mbit/s

95th percentile per-packet one-way delay: 111.944 ms

Loss rate: 0.00%

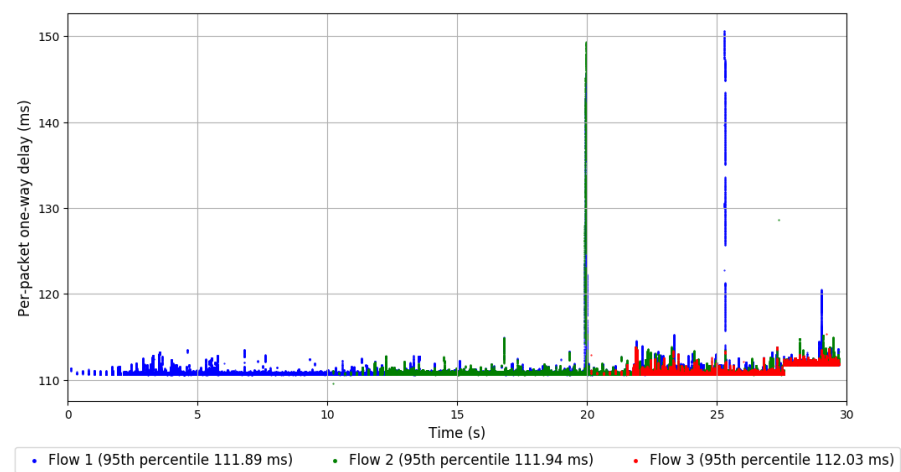
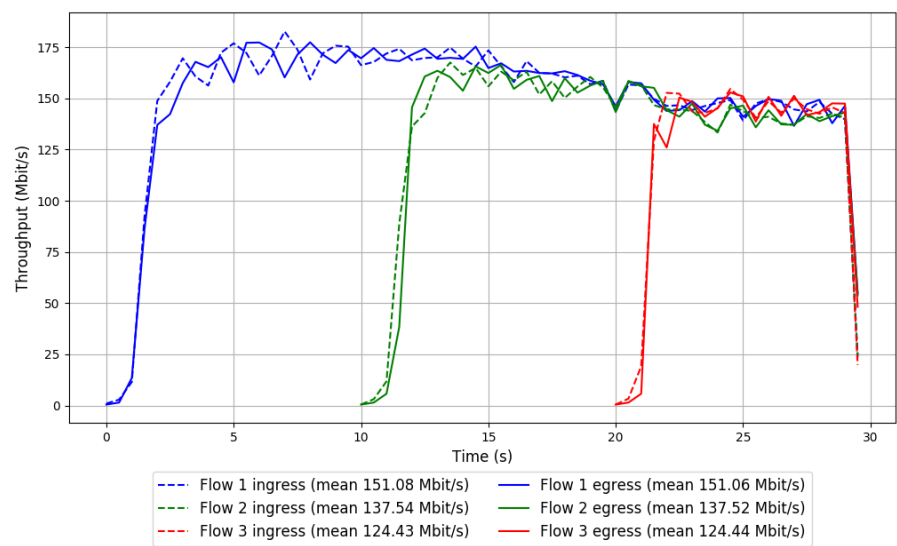
-- Flow 3:

Average throughput: 124.44 Mbit/s

95th percentile per-packet one-way delay: 112.034 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 12:55:38

End at: 2018-01-26 12:56:08

Below is generated by plot.py at 2018-01-26 16:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.54 Mbit/s

95th percentile per-packet one-way delay: 112.294 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.74 Mbit/s

95th percentile per-packet one-way delay: 111.994 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.81 Mbit/s

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

Loss rate: 0.00%

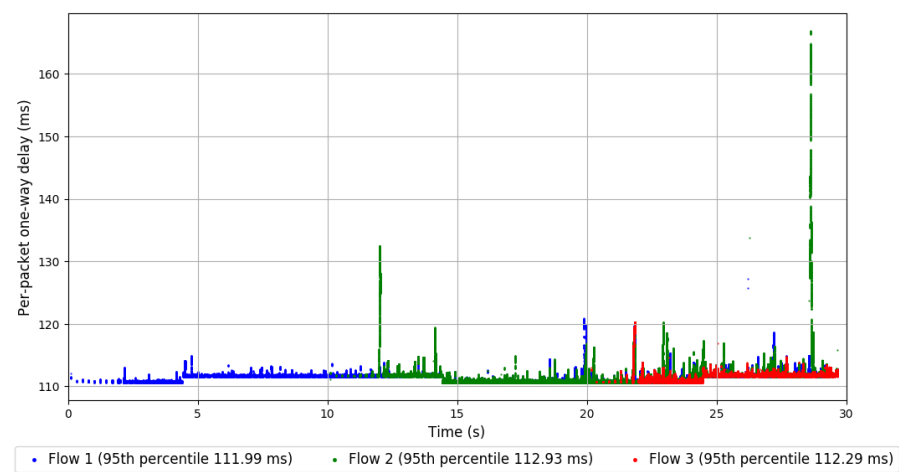
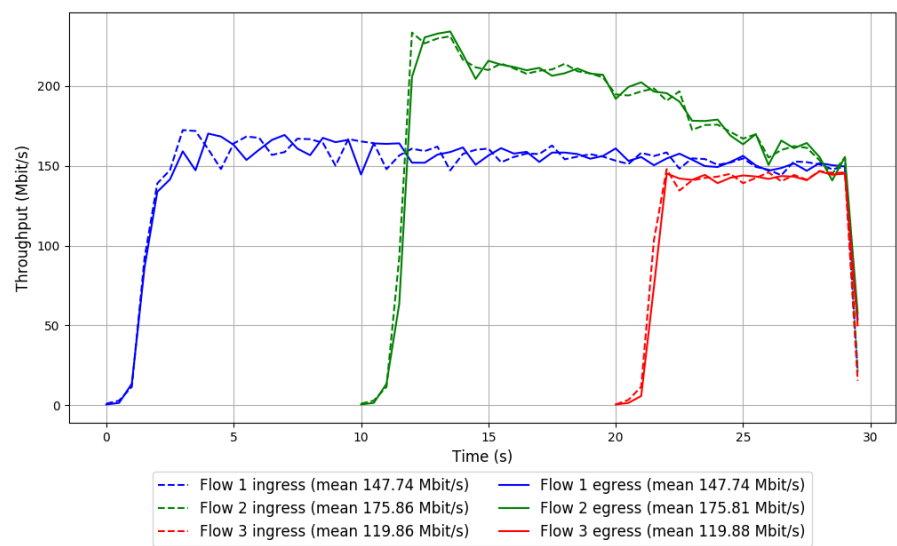
-- Flow 3:

Average throughput: 119.88 Mbit/s

95th percentile per-packet one-way delay: 112.289 ms

Loss rate: 0.01%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 13:11:28

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

Below is generated by plot.py at 2018-01-26 16:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.80 Mbit/s

95th percentile per-packet one-way delay: 112.193 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.14 Mbit/s

95th percentile per-packet one-way delay: 112.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.03 Mbit/s

95th percentile per-packet one-way delay: 112.560 ms

Loss rate: 0.00%

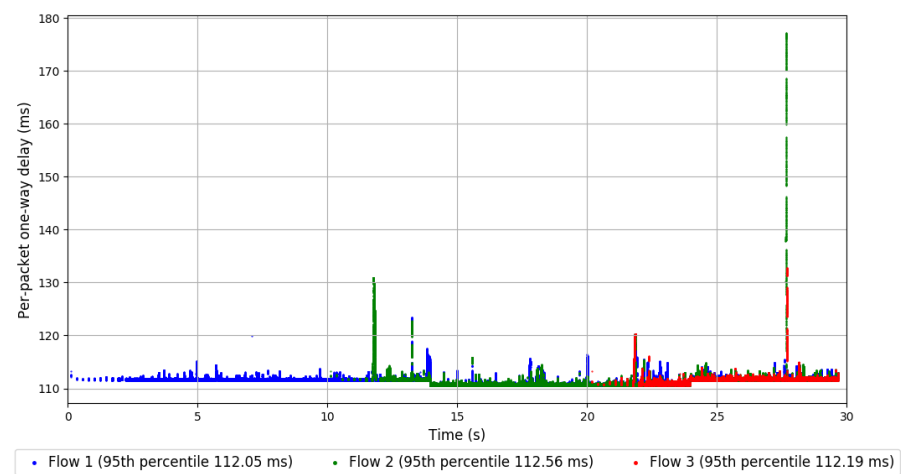
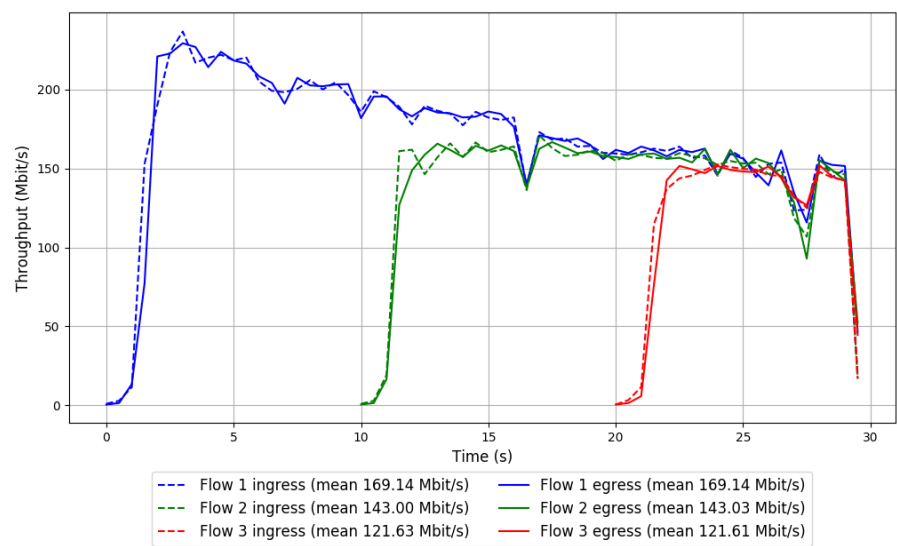
-- Flow 3:

Average throughput: 121.61 Mbit/s

95th percentile per-packet one-way delay: 112.186 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 13:26:44

End at: 2018-01-26 13:27:14

Below is generated by plot.py at 2018-01-26 16:03:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.54 Mbit/s

95th percentile per-packet one-way delay: 111.552 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 148.22 Mbit/s

95th percentile per-packet one-way delay: 111.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.58 Mbit/s

95th percentile per-packet one-way delay: 111.741 ms

Loss rate: 0.00%

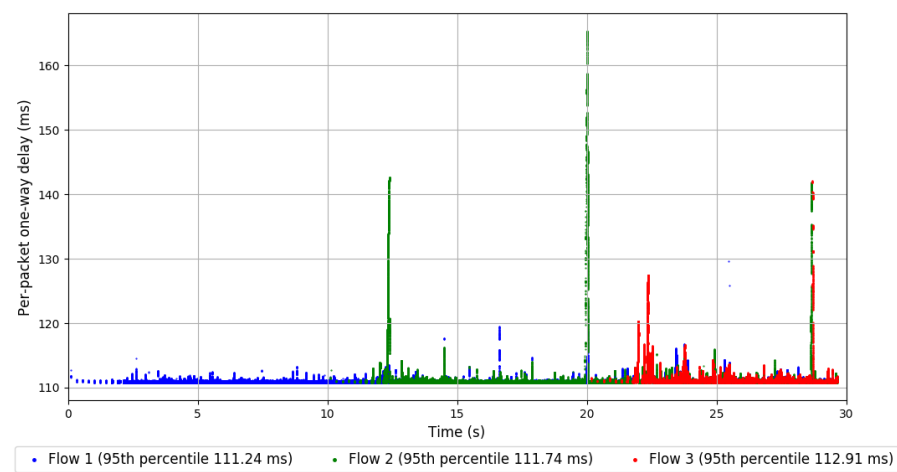
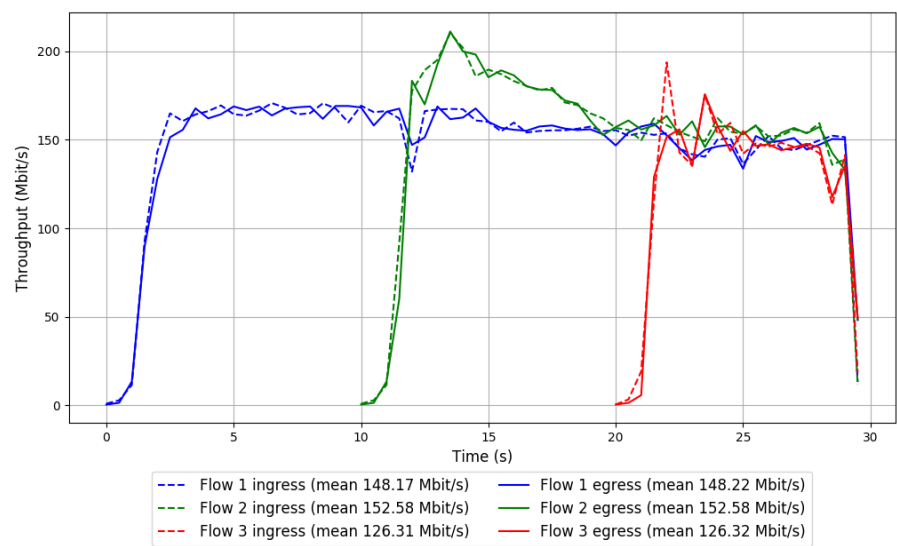
-- Flow 3:

Average throughput: 126.32 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 13:42:43

End at: 2018-01-26 13:43:13

Below is generated by plot.py at 2018-01-26 16:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.72 Mbit/s

95th percentile per-packet one-way delay: 111.430 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 144.60 Mbit/s

95th percentile per-packet one-way delay: 111.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.51 Mbit/s

95th percentile per-packet one-way delay: 111.405 ms

Loss rate: 0.00%

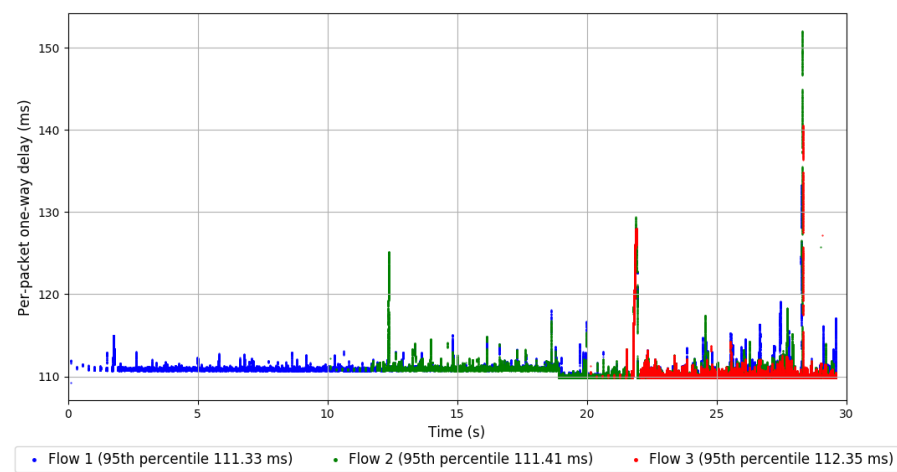
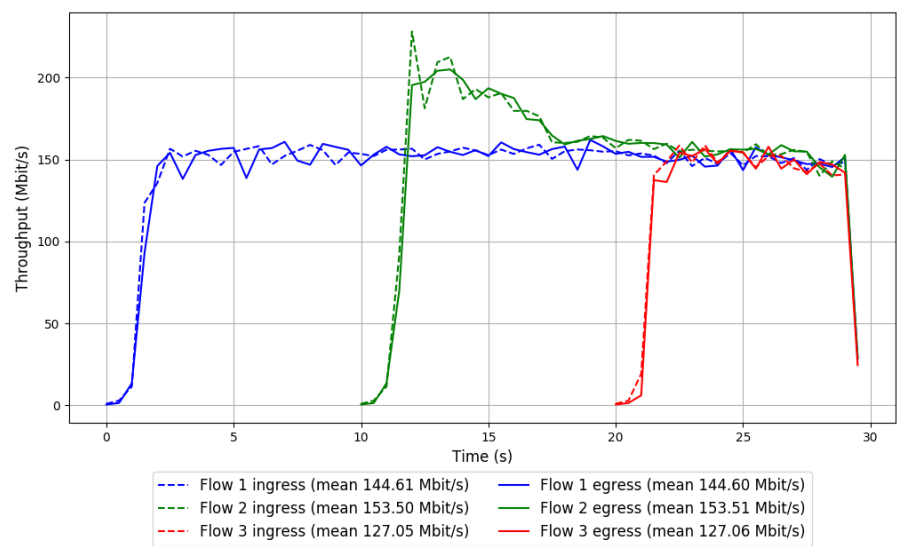
-- Flow 3:

Average throughput: 127.06 Mbit/s

95th percentile per-packet one-way delay: 112.352 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 13:58:24

End at: 2018-01-26 13:58:54

Below is generated by plot.py at 2018-01-26 16:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.21 Mbit/s

95th percentile per-packet one-way delay: 112.450 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 112.451 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.47 Mbit/s

95th percentile per-packet one-way delay: 112.020 ms

Loss rate: 0.00%

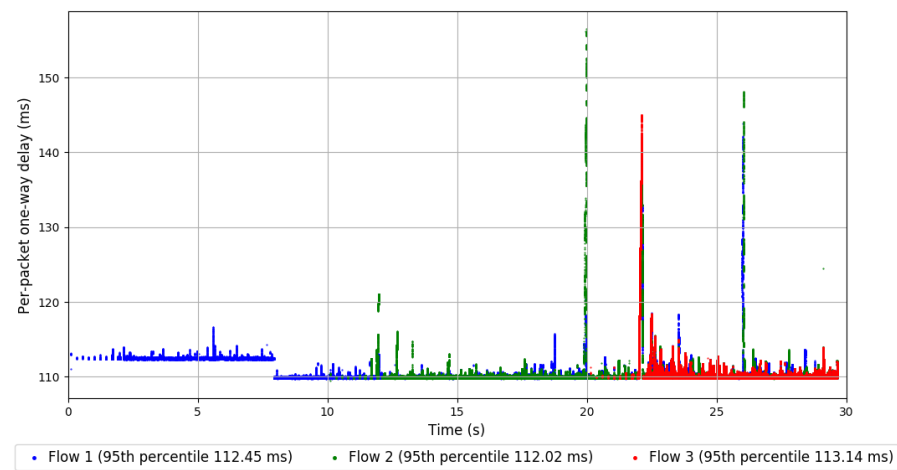
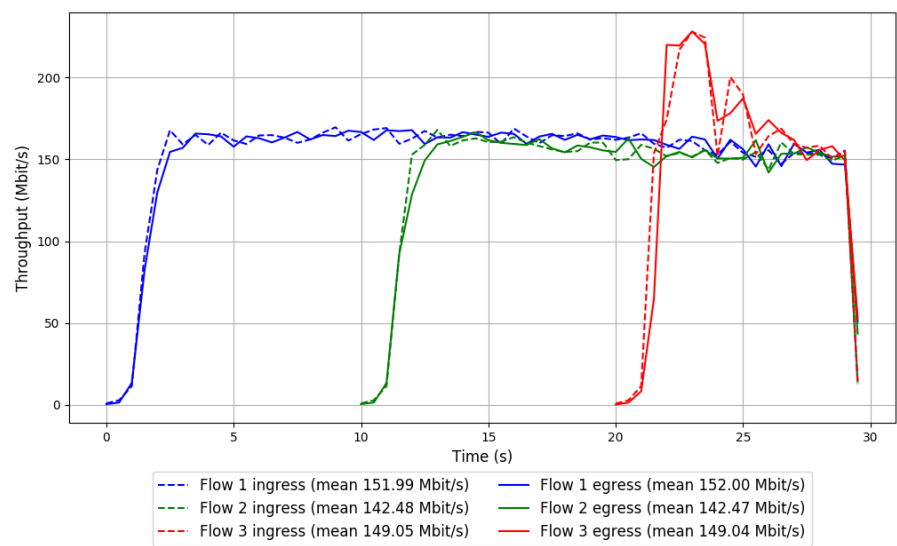
-- Flow 3:

Average throughput: 149.04 Mbit/s

95th percentile per-packet one-way delay: 113.135 ms

Loss rate: 0.01%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 14:13:58

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

Below is generated by plot.py at 2018-01-26 16:05:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.50 Mbit/s

95th percentile per-packet one-way delay: 113.019 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 144.57 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.63 Mbit/s

95th percentile per-packet one-way delay: 113.039 ms

Loss rate: 0.00%

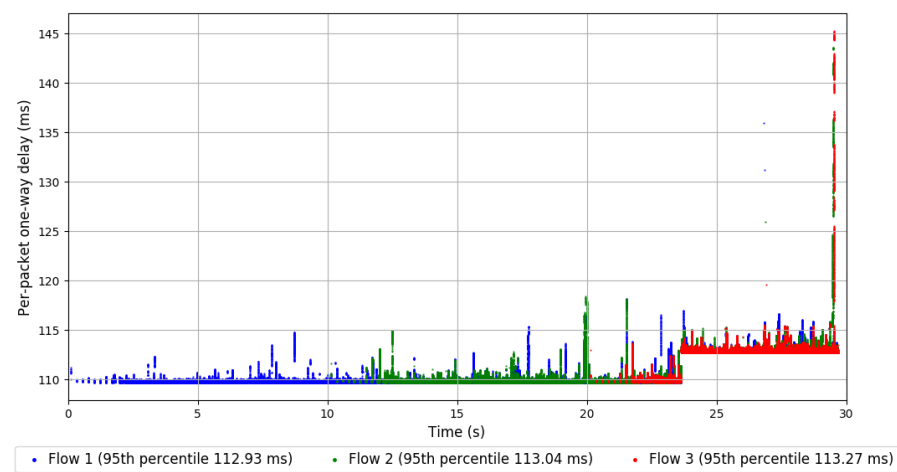
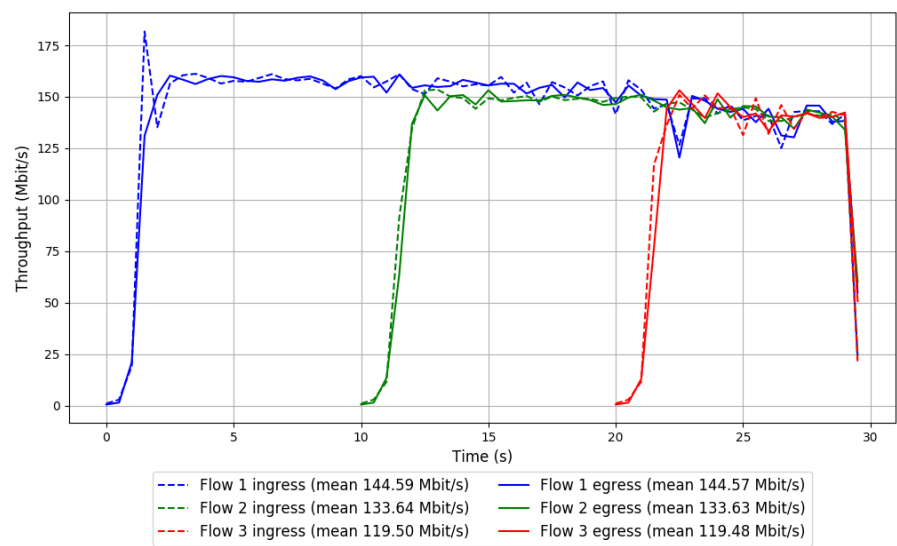
-- Flow 3:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 113.274 ms

Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link

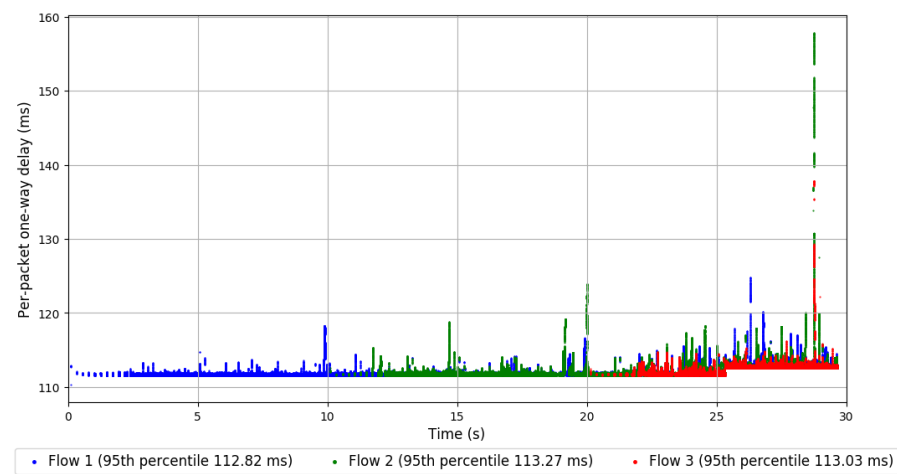
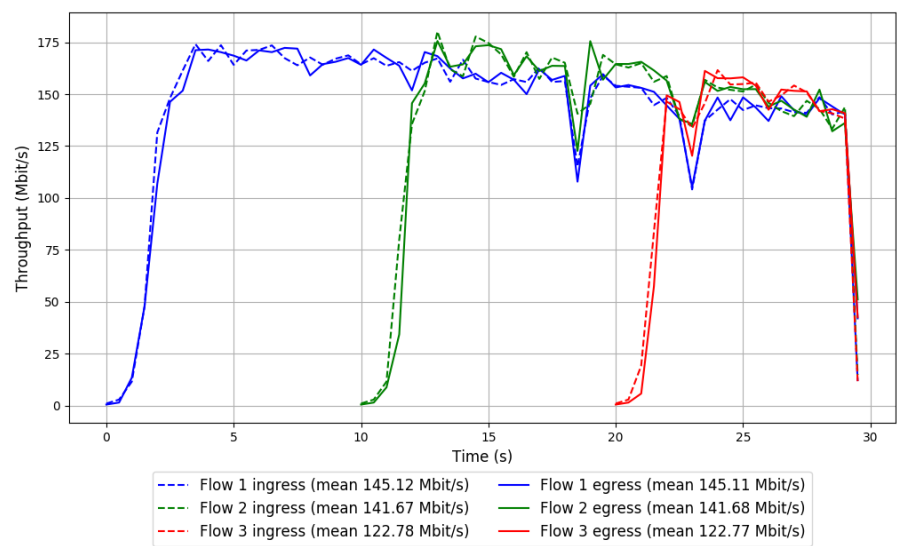


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 11:41:17
End at: 2018-01-26 11:41:47

# Below is generated by plot.py at 2018-01-26 16:05:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.29 Mbit/s
95th percentile per-packet one-way delay: 112.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.11 Mbit/s
95th percentile per-packet one-way delay: 112.824 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.68 Mbit/s
95th percentile per-packet one-way delay: 113.269 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.77 Mbit/s
95th percentile per-packet one-way delay: 113.028 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo-1-128 — Data Link

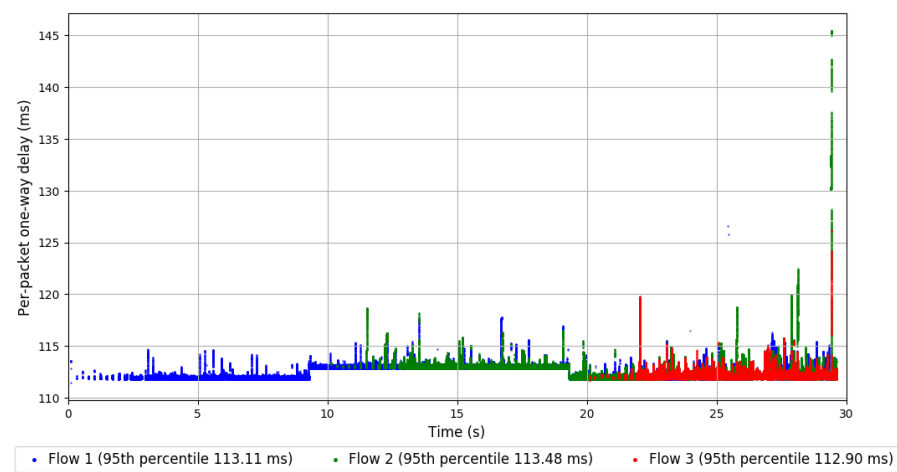
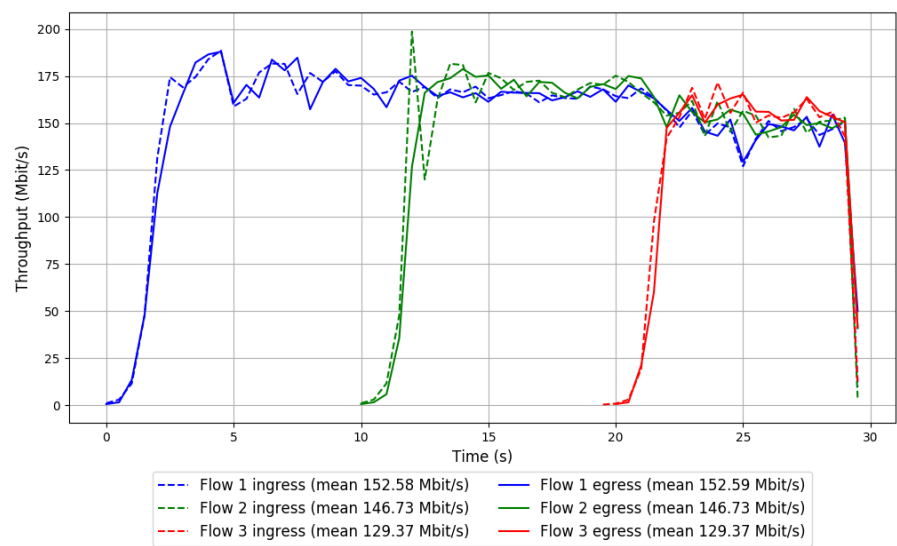


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 11:57:23
End at: 2018-01-26 11:57:53

# Below is generated by plot.py at 2018-01-26 16:06:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.28 Mbit/s
95th percentile per-packet one-way delay: 113.185 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 152.59 Mbit/s
95th percentile per-packet one-way delay: 113.115 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.73 Mbit/s
95th percentile per-packet one-way delay: 113.478 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.37 Mbit/s
95th percentile per-packet one-way delay: 112.896 ms
Loss rate: 0.03%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 12:12:58

End at: 2018-01-26 12:13:28

Below is generated by plot.py at 2018-01-26 16:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.81 Mbit/s

95th percentile per-packet one-way delay: 140.871 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 148.56 Mbit/s

95th percentile per-packet one-way delay: 138.897 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 137.91 Mbit/s

95th percentile per-packet one-way delay: 149.159 ms

Loss rate: 0.02%

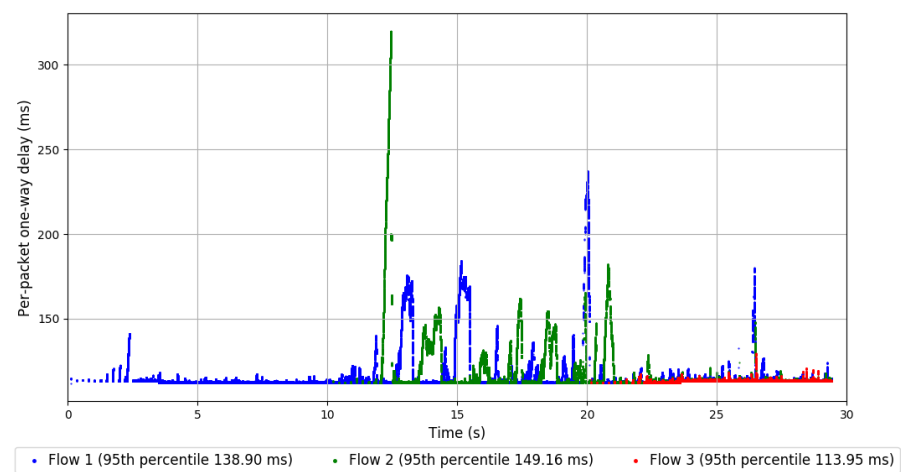
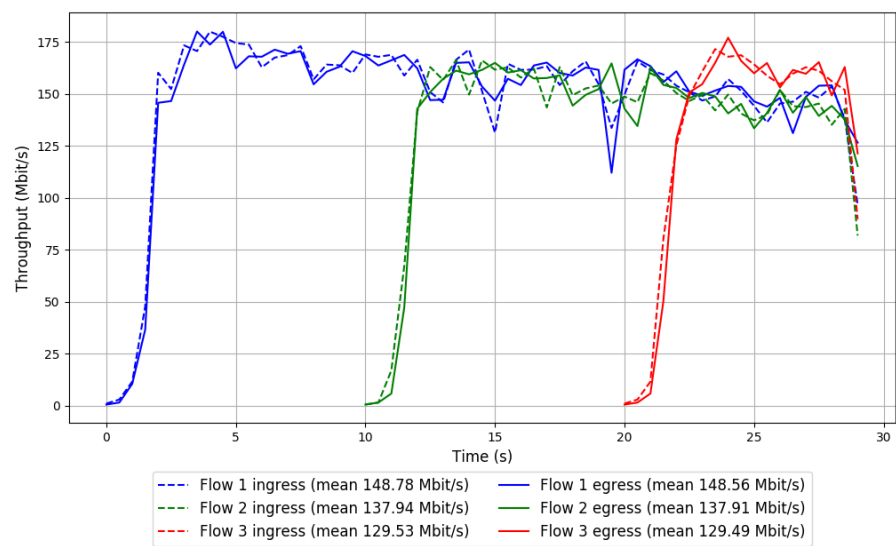
-- Flow 3:

Average throughput: 129.49 Mbit/s

95th percentile per-packet one-way delay: 113.947 ms

Loss rate: 0.03%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 12:28:20

End at: 2018-01-26 12:28:50

Below is generated by plot.py at 2018-01-26 16:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.35 Mbit/s

95th percentile per-packet one-way delay: 118.380 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 150.20 Mbit/s

95th percentile per-packet one-way delay: 115.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.73 Mbit/s

95th percentile per-packet one-way delay: 124.406 ms

Loss rate: 0.01%

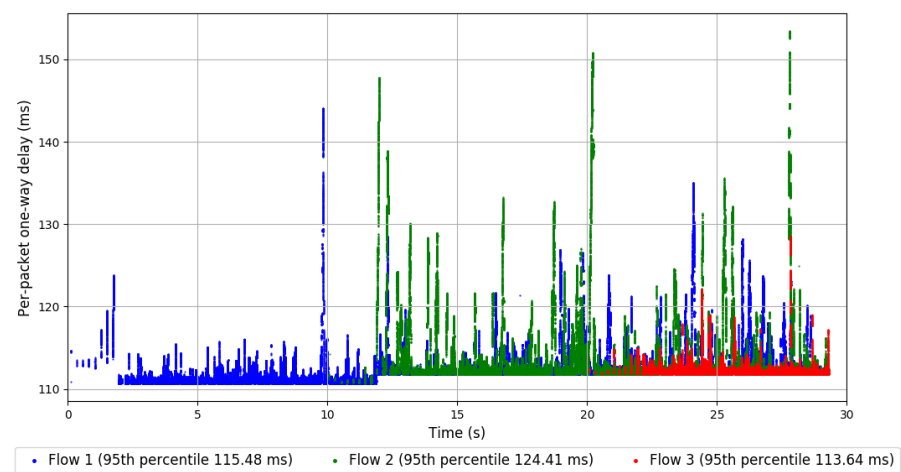
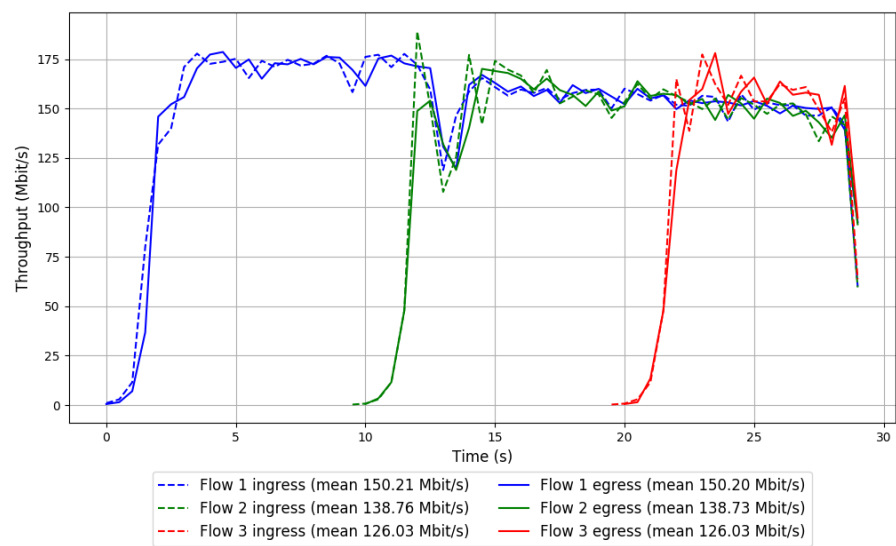
-- Flow 3:

Average throughput: 126.03 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 12:43:51

End at: 2018-01-26 12:44:21

Below is generated by plot.py at 2018-01-26 16:08:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.32 Mbit/s

95th percentile per-packet one-way delay: 113.646 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 136.78 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.40 Mbit/s

95th percentile per-packet one-way delay: 112.891 ms

Loss rate: 0.00%

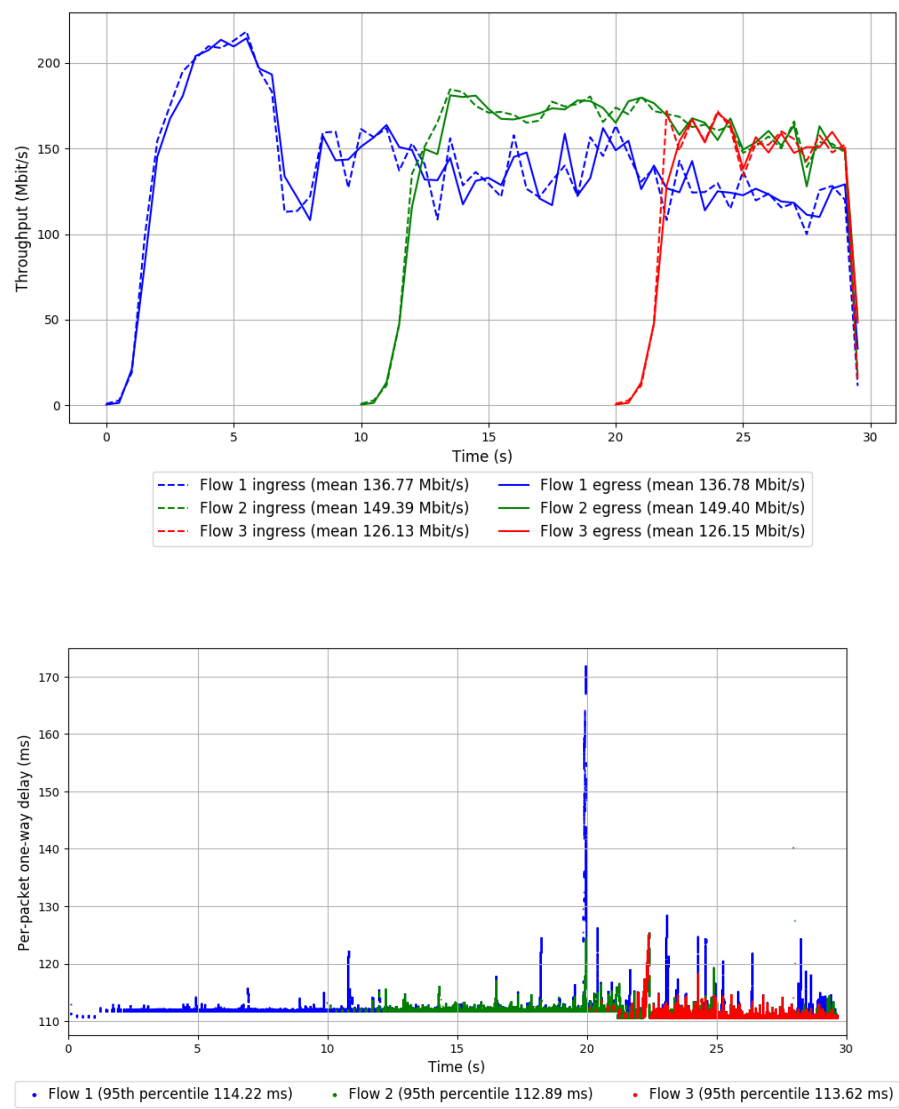
-- Flow 3:

Average throughput: 126.15 Mbit/s

95th percentile per-packet one-way delay: 113.618 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 12:59:44

End at: 2018-01-26 13:00:14

Below is generated by plot.py at 2018-01-26 16:08:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.20 Mbit/s

95th percentile per-packet one-way delay: 117.566 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 144.52 Mbit/s

95th percentile per-packet one-way delay: 116.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.43 Mbit/s

95th percentile per-packet one-way delay: 117.070 ms

Loss rate: 0.00%

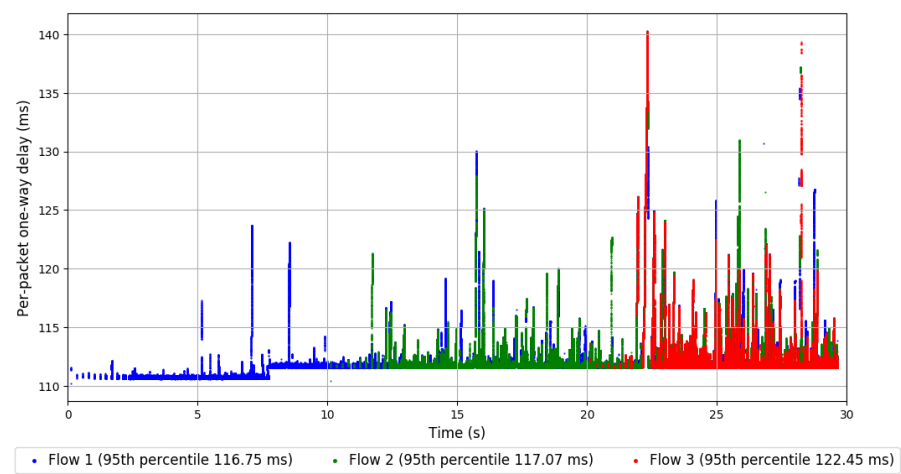
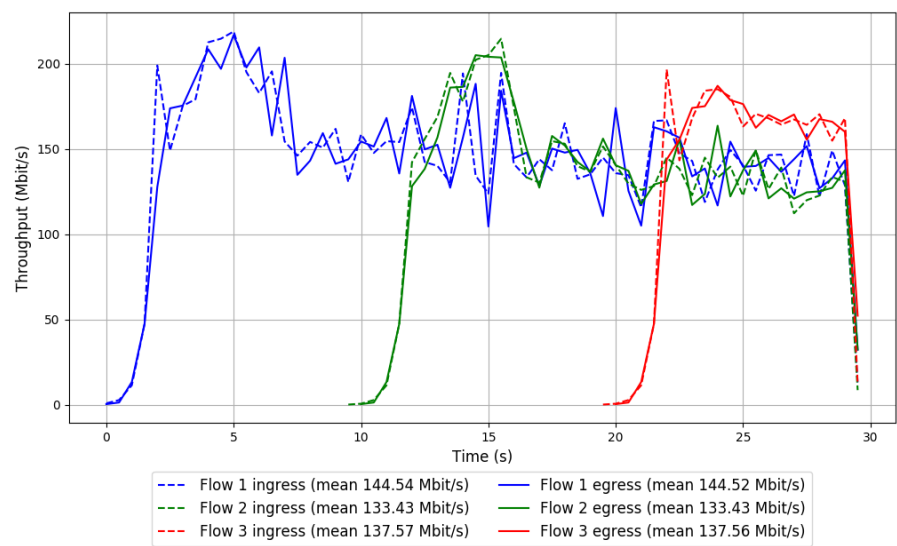
-- Flow 3:

Average throughput: 137.56 Mbit/s

95th percentile per-packet one-way delay: 122.452 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 13:15:38

End at: 2018-01-26 13:16:08

Below is generated by plot.py at 2018-01-26 16:08:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.04 Mbit/s

95th percentile per-packet one-way delay: 115.606 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 135.97 Mbit/s

95th percentile per-packet one-way delay: 115.161 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 129.43 Mbit/s

95th percentile per-packet one-way delay: 116.476 ms

Loss rate: 0.00%

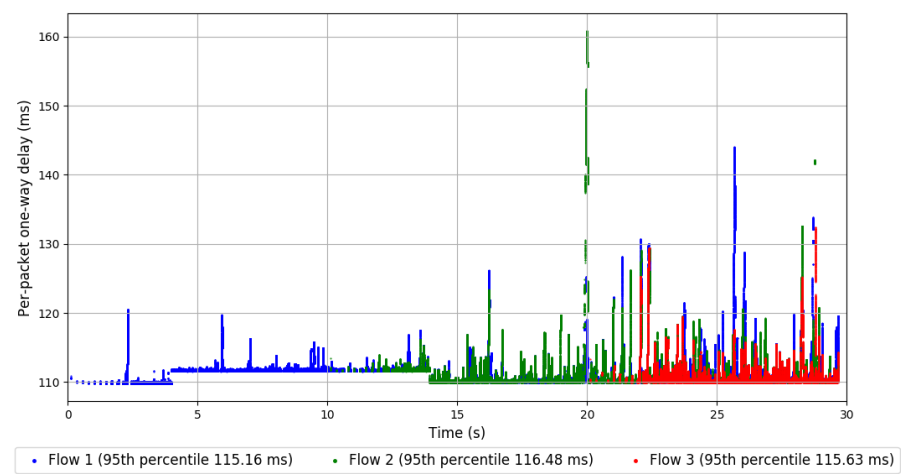
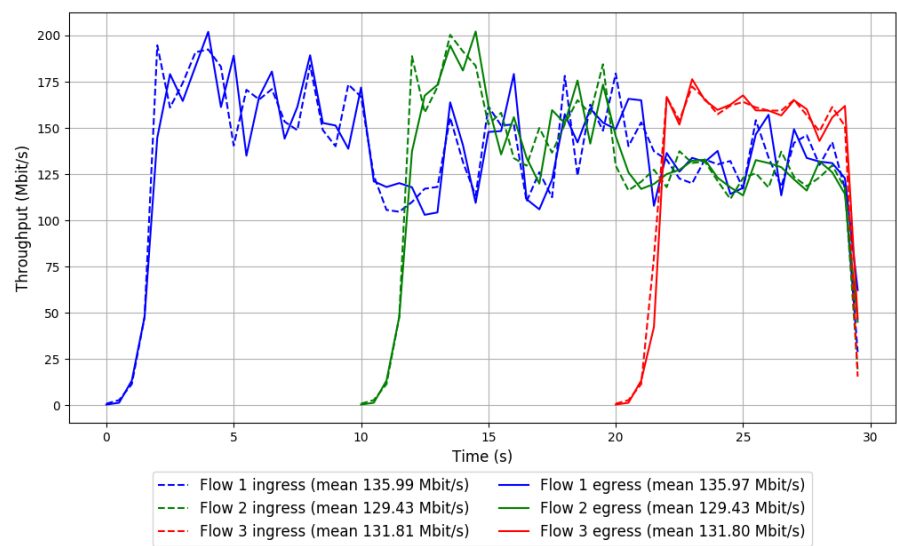
-- Flow 3:

Average throughput: 131.80 Mbit/s

95th percentile per-packet one-way delay: 115.627 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 13:30:53

End at: 2018-01-26 13:31:23

Below is generated by plot.py at 2018-01-26 16:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.47 Mbit/s

95th percentile per-packet one-way delay: 111.449 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.29 Mbit/s

95th percentile per-packet one-way delay: 110.963 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.47 Mbit/s

95th percentile per-packet one-way delay: 111.742 ms

Loss rate: 0.00%

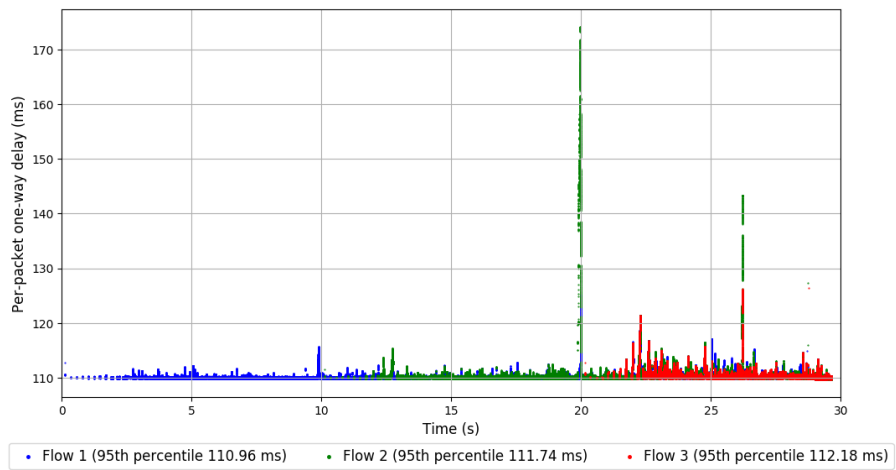
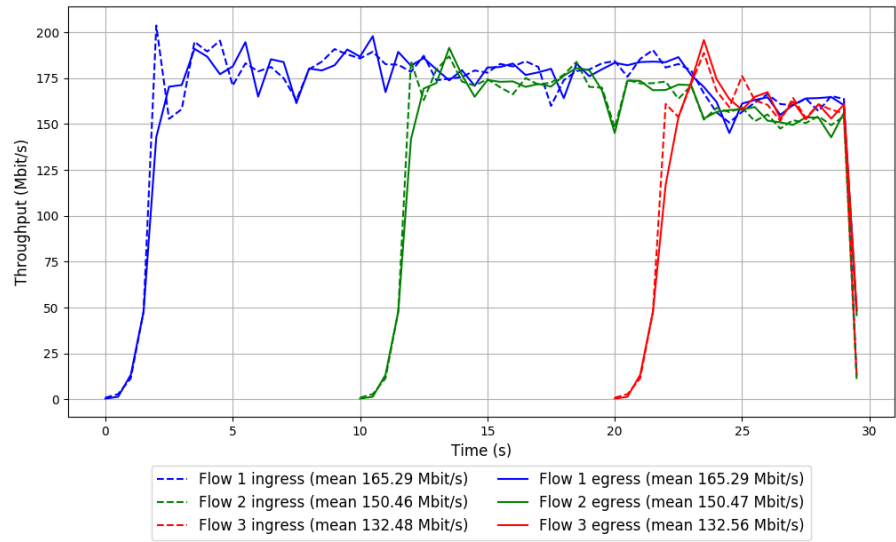
-- Flow 3:

Average throughput: 132.56 Mbit/s

95th percentile per-packet one-way delay: 112.184 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 13:46:51

End at: 2018-01-26 13:47:21

Below is generated by plot.py at 2018-01-26 16:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.83 Mbit/s

95th percentile per-packet one-way delay: 115.108 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.18 Mbit/s

95th percentile per-packet one-way delay: 114.361 ms

Loss rate: 0.00%

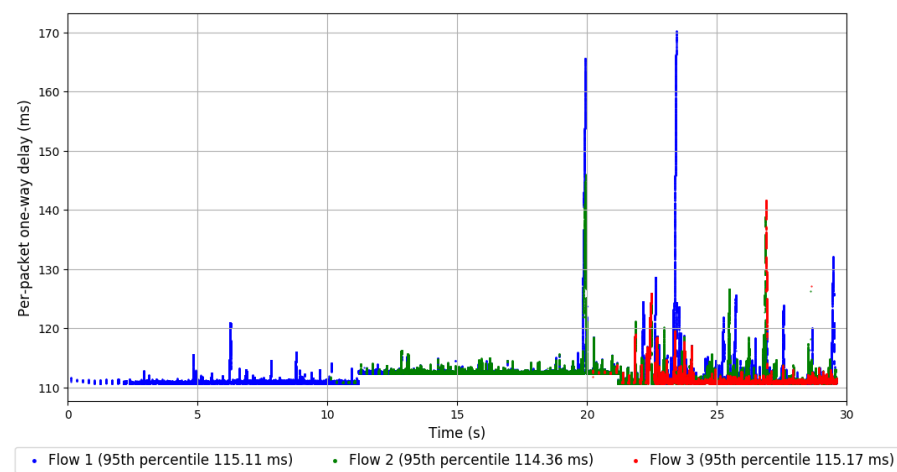
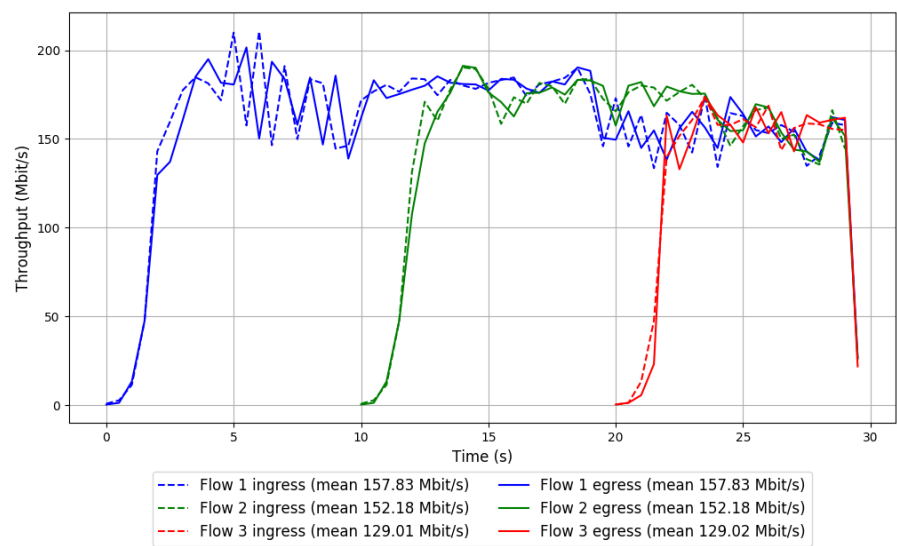
-- Flow 3:

Average throughput: 129.02 Mbit/s

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

Loss rate: 0.01%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 14:02:32

End at: 2018-01-26 14:03:02

Below is generated by plot.py at 2018-01-26 16:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.25 Mbit/s

95th percentile per-packet one-way delay: 113.080 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 131.97 Mbit/s

95th percentile per-packet one-way delay: 111.842 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 137.25 Mbit/s

95th percentile per-packet one-way delay: 114.503 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 138.72 Mbit/s

95th percentile per-packet one-way delay: 113.073 ms

Loss rate: 0.02%

Run 10: Report of Indigo-1-128 — Data Link

