

Pantheon Report

Generated at 2017-11-16 23:31:17 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

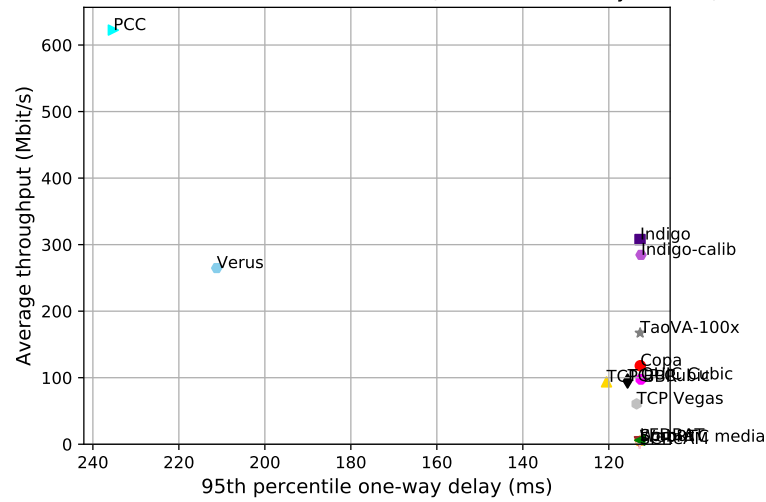
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

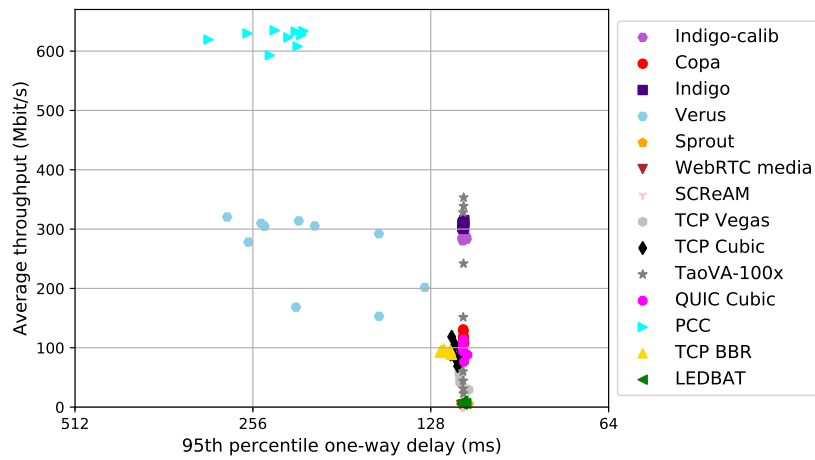
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	10	46.66	48.06	46.15	120.45	120.88	119.66	0.10	0.10	0.02
TCP Cubic	10	47.31	51.50	40.67	115.00	115.19	116.85	0.05	0.17	0.20
LEDBAT	10	3.67	2.59	1.82	112.81	112.35	112.27	0.05	0.34	0.01
PCC	9	518.15	134.97	44.58	241.65	212.10	213.04	2.65	1.84	2.06
QUIC Cubic	9	58.19	48.53	30.69	112.52	111.77	111.85	0.00	0.00	0.02
SCReAM	10	0.21	0.20	0.21	112.00	112.52	112.00	0.00	0.00	0.00
WebRTC media	10	2.09	1.28	0.45	111.89	112.38	112.42	0.00	0.00	0.01
Sprout	10	2.71	2.29	1.82	112.88	112.66	112.79	0.17	0.13	0.18
TaoVA-100x	10	80.83	102.68	87.18	112.54	112.57	112.66	0.02	0.01	0.03
TCP Vegas	10	25.91	37.91	25.32	113.29	113.59	114.10	0.03	0.01	0.04
Verus	10	180.78	102.26	51.09	213.34	188.44	197.36	2.14	0.75	2.47
Copa	10	64.05	64.40	44.30	112.64	112.27	112.63	0.00	0.00	0.00
Indigo	10	164.39	153.62	129.21	112.65	112.39	113.05	0.00	0.00	0.01
Indigo-calib	9	151.26	143.18	119.95	112.44	112.61	112.60	0.03	0.01	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 19:34:56

End at: 2017-11-16 19:35:26

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 118.652 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 119.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.28 Mbit/s

95th percentile per-packet one-way delay: 118.076 ms

Loss rate: 0.00%

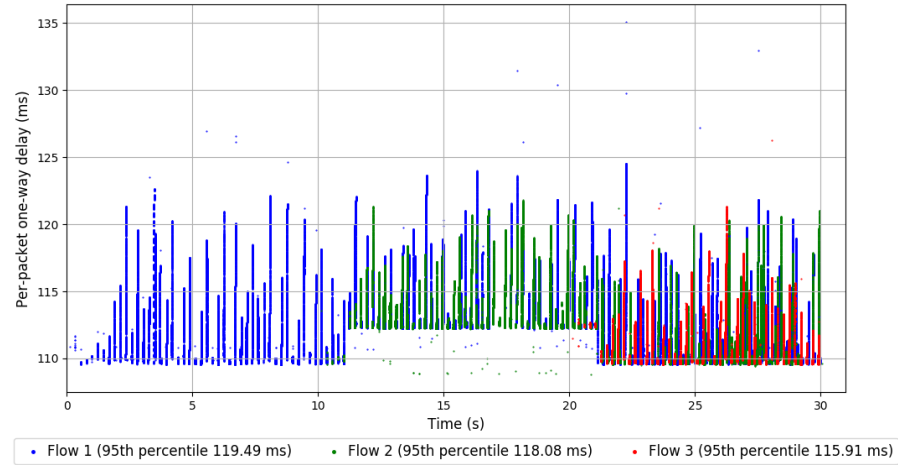
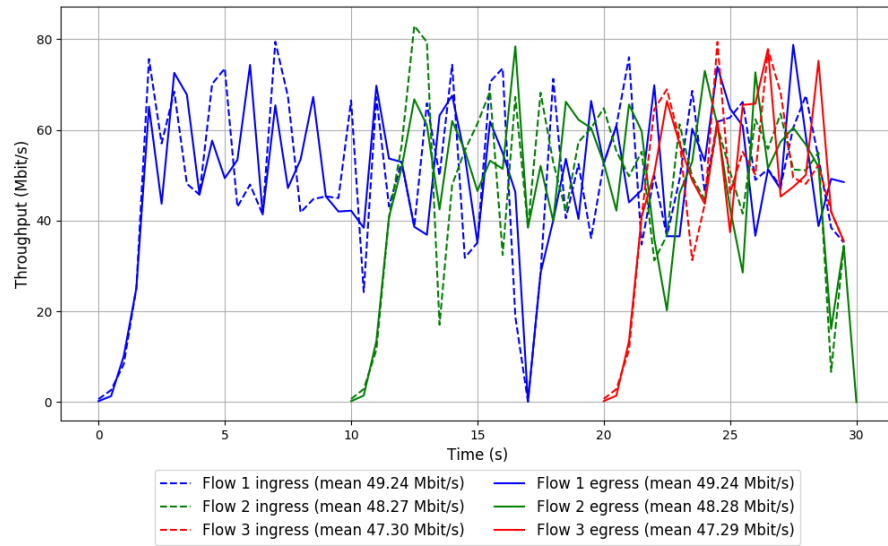
-- Flow 3:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 115.907 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-16 19:48:08

End at: 2017-11-16 19:48:38

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 118.395 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 117.187 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 119.111 ms

Loss rate: 0.01%

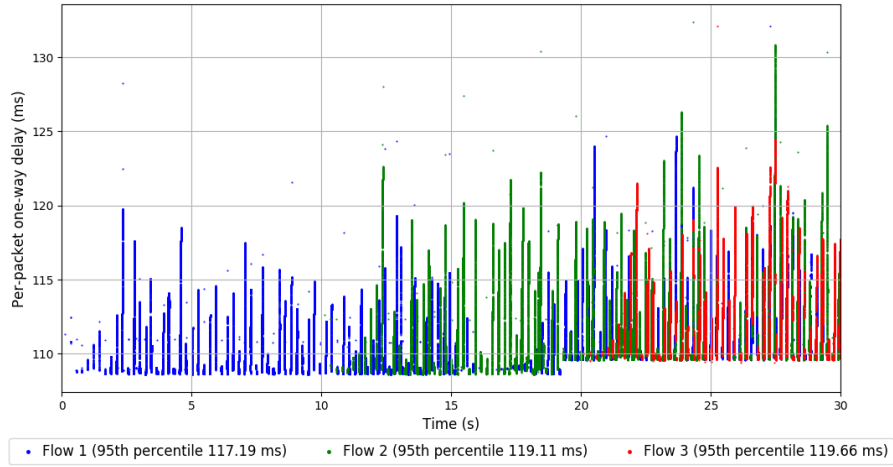
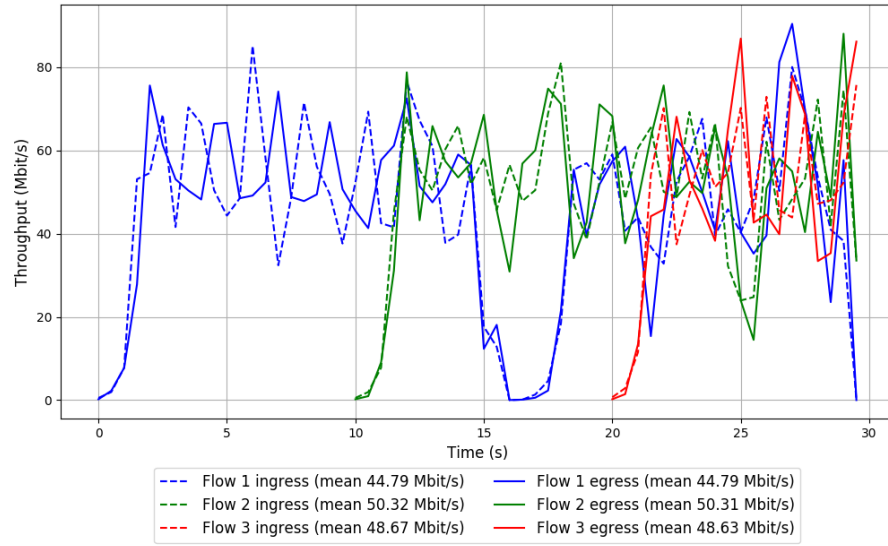
-- Flow 3:

Average throughput: 48.63 Mbit/s

95th percentile per-packet one-way delay: 119.664 ms

Loss rate: 0.07%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-16 20:01:58

End at: 2017-11-16 20:02:28

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 117.859 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 117.788 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 41.74 Mbit/s

95th percentile per-packet one-way delay: 118.459 ms

Loss rate: 0.01%

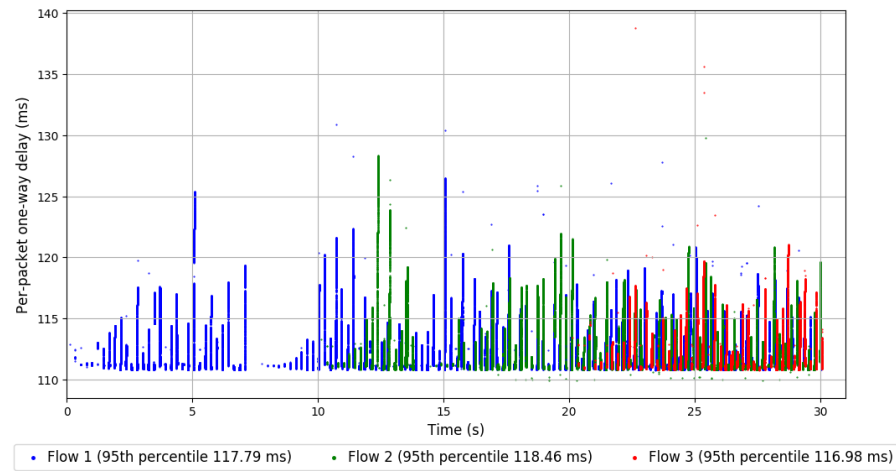
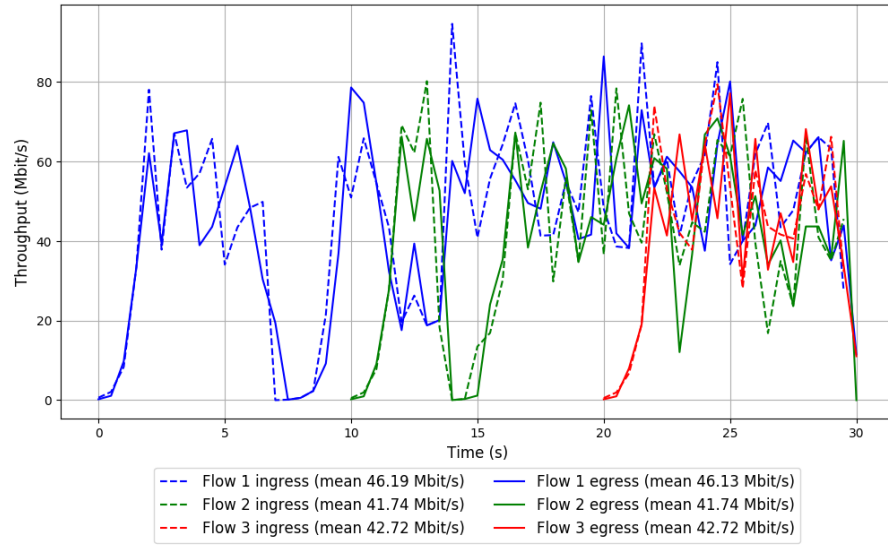
-- Flow 3:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 116.979 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 20:15:15

End at: 2017-11-16 20:15:45

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 118.718 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 118.223 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 118.900 ms

Loss rate: 0.90%

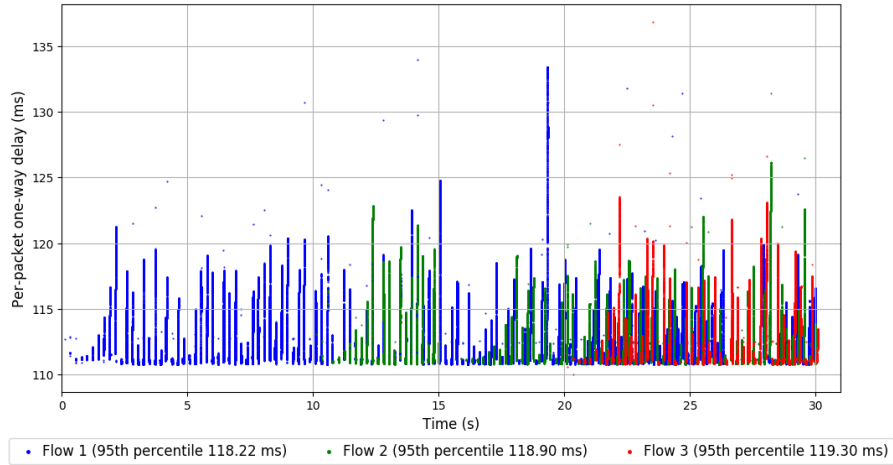
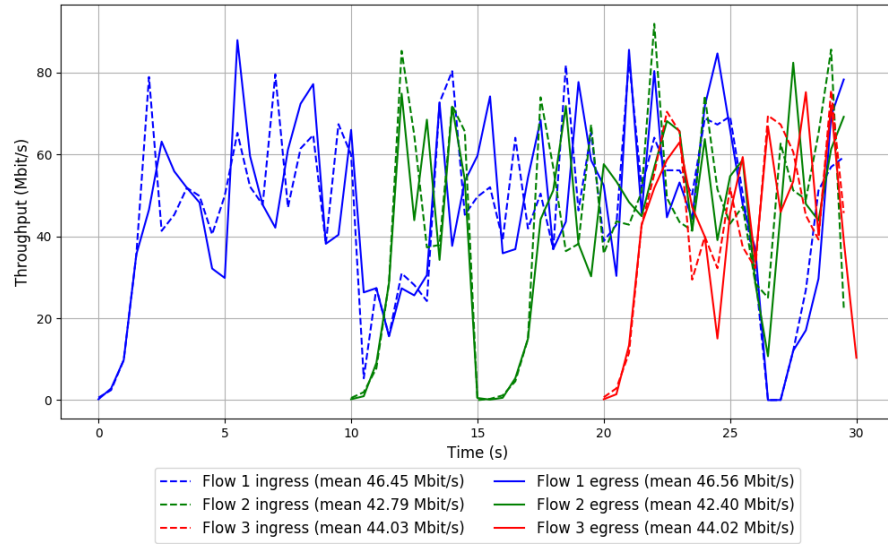
-- Flow 3:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 119.302 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-16 20:28:55

End at: 2017-11-16 20:29:25

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 120.934 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 50.44 Mbit/s

95th percentile per-packet one-way delay: 120.837 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 122.343 ms

Loss rate: 0.00%

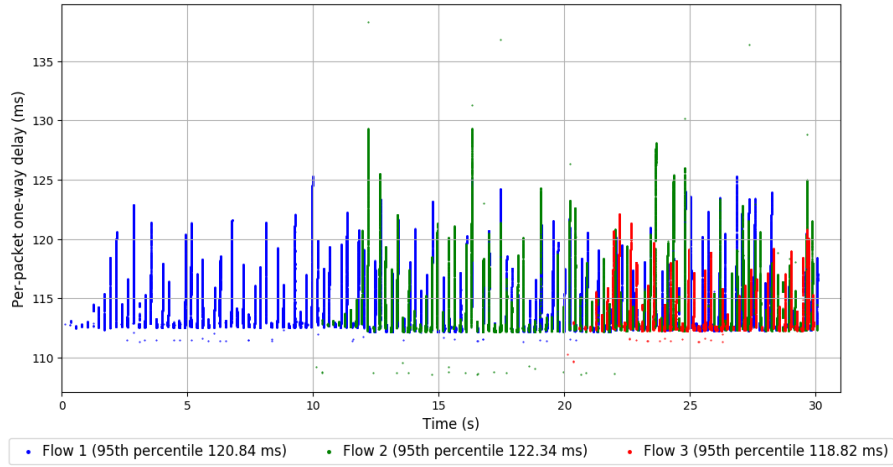
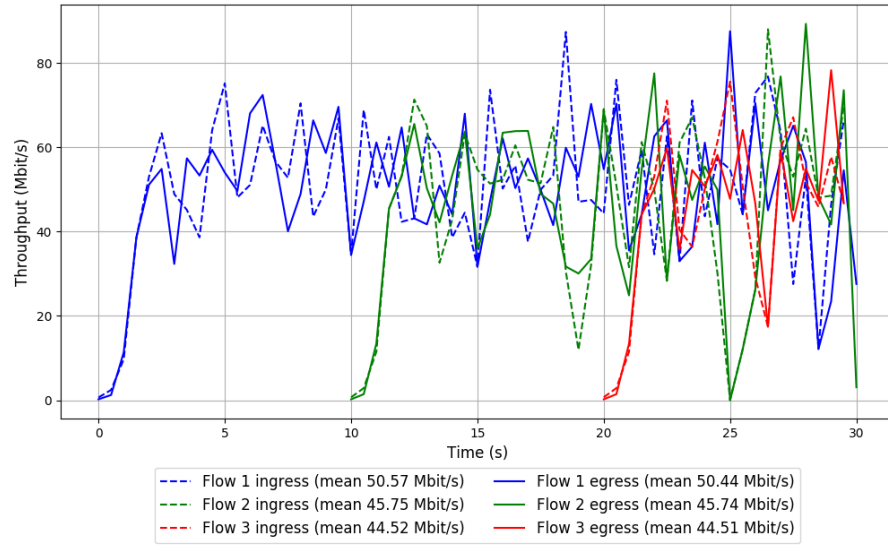
-- Flow 3:

Average throughput: 44.51 Mbit/s

95th percentile per-packet one-way delay: 118.819 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 20:42:46

End at: 2017-11-16 20:43:16

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 120.263 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 44.43 Mbit/s

95th percentile per-packet one-way delay: 121.165 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 119.876 ms

Loss rate: 0.01%

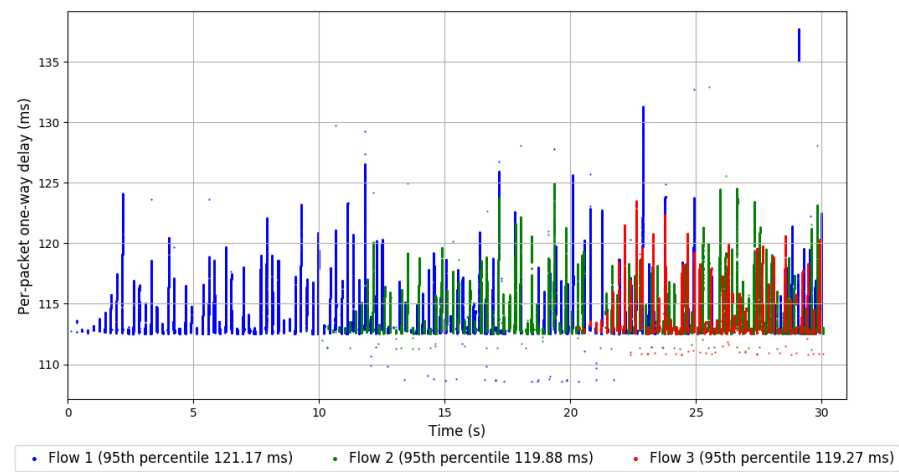
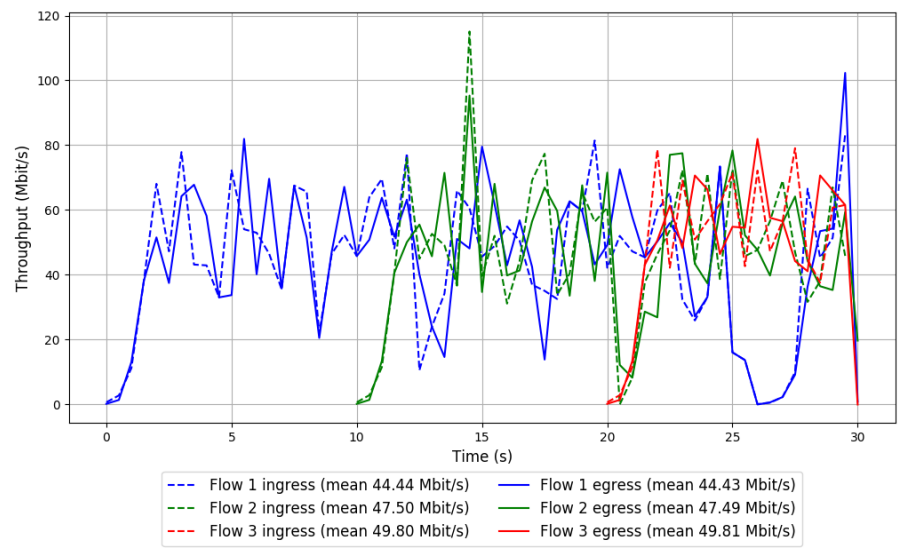
-- Flow 3:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 119.265 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 20:56:15

End at: 2017-11-16 20:56:45

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 123.080 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 121.826 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 124.556 ms

Loss rate: 0.06%

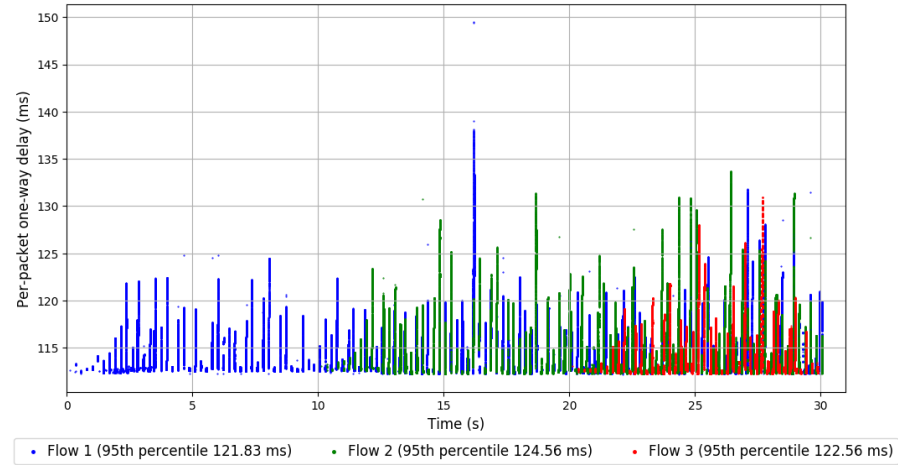
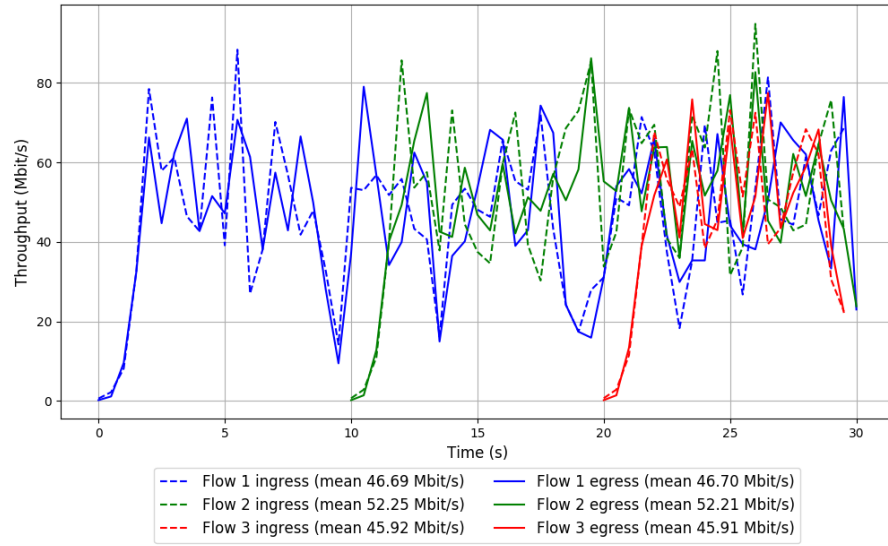
-- Flow 3:

Average throughput: 45.91 Mbit/s

95th percentile per-packet one-way delay: 122.563 ms

Loss rate: 0.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 21:09:24

End at: 2017-11-16 21:09:54

Below is generated by plot.py at 2017-11-16 22:42:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 122.211 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 121.898 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 122.068 ms

Loss rate: 0.00%

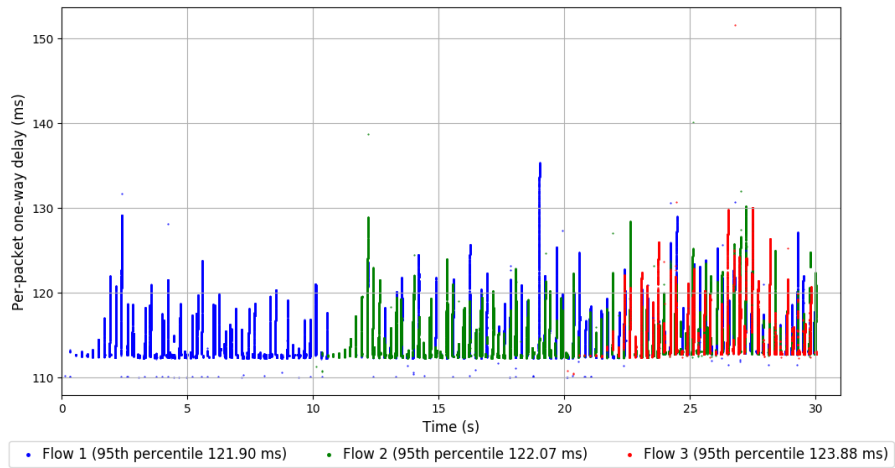
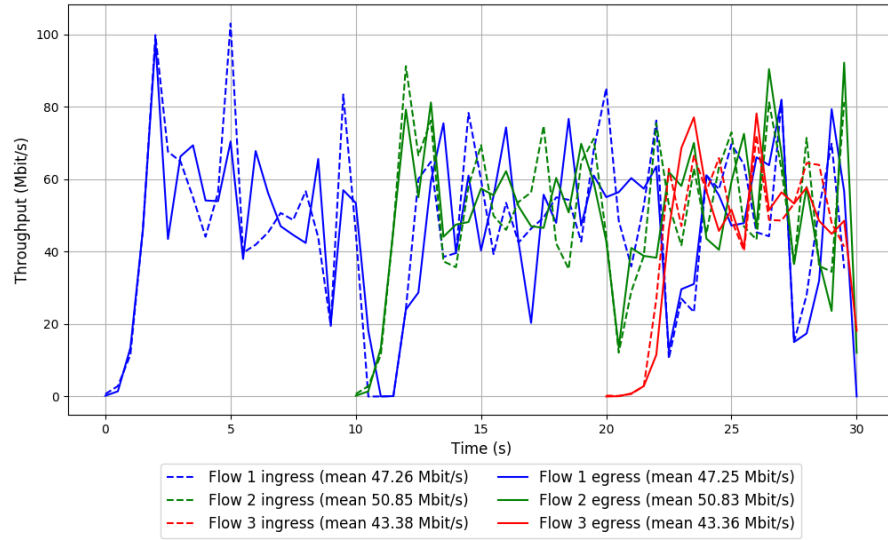
-- Flow 3:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 123.878 ms

Loss rate: 0.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 21:23:15

End at: 2017-11-16 21:23:45

Below is generated by plot.py at 2017-11-16 22:43:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 123.525 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 124.031 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 123.513 ms

Loss rate: 0.00%

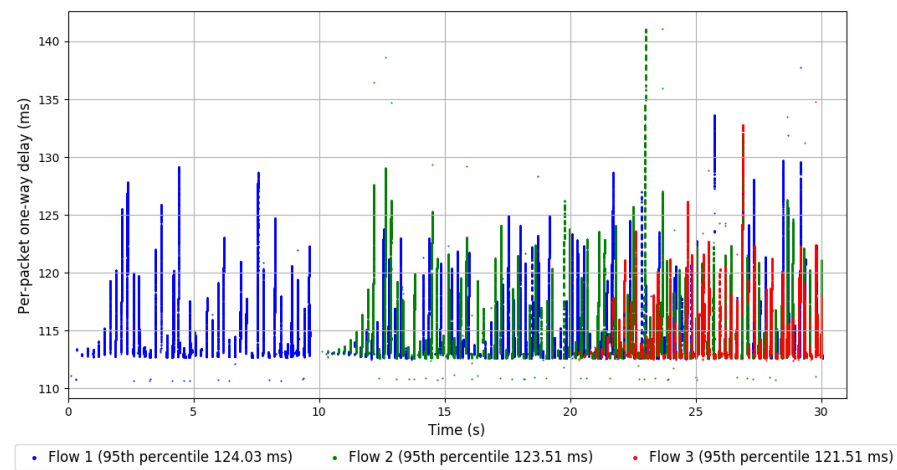
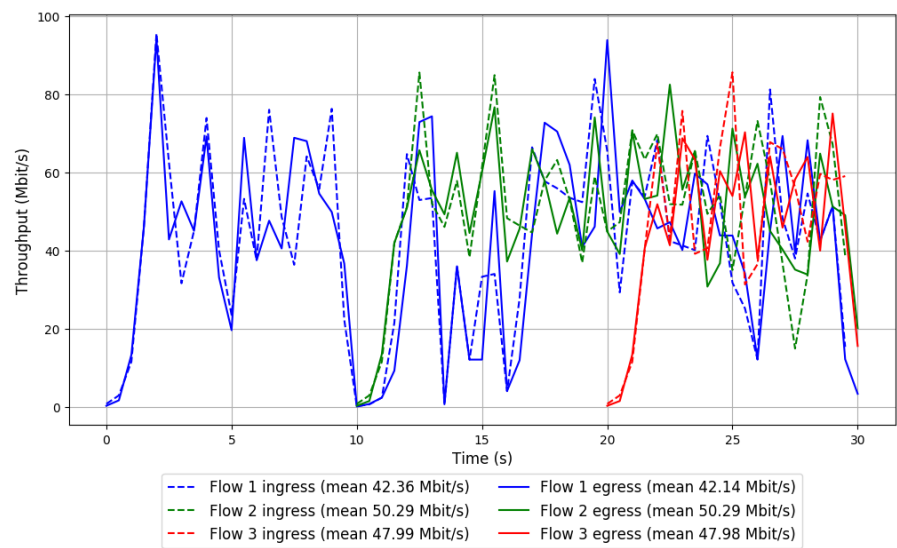
-- Flow 3:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 121.511 ms

Loss rate: 0.02%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 21:36:24

End at: 2017-11-16 21:36:54

Below is generated by plot.py at 2017-11-16 22:43:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.60 Mbit/s

95th percentile per-packet one-way delay: 121.733 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 122.106 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 121.853 ms

Loss rate: 0.00%

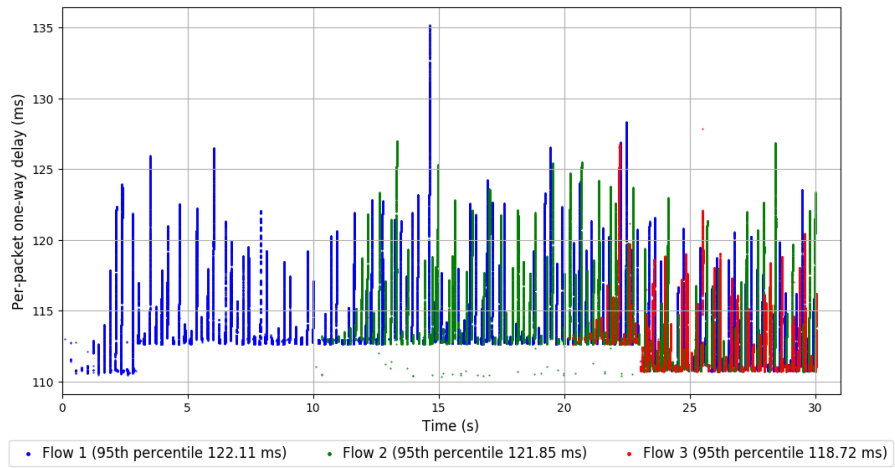
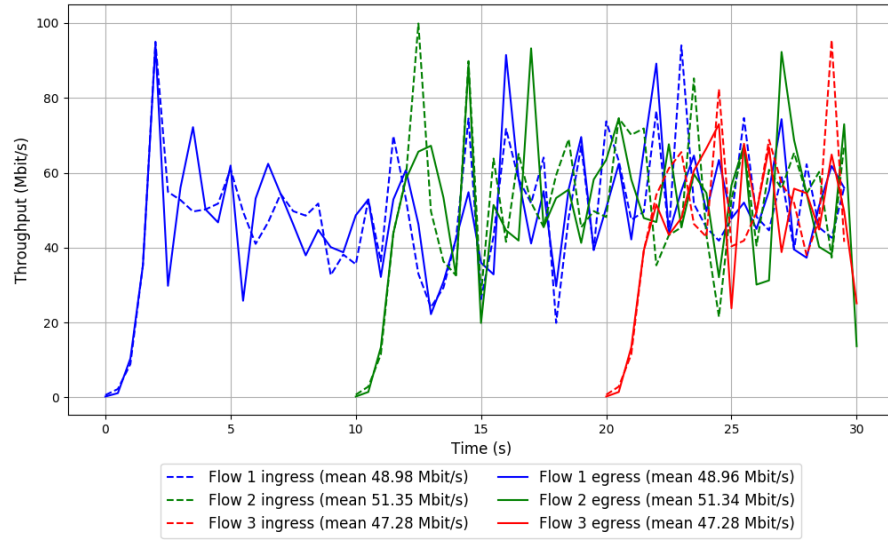
-- Flow 3:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 118.716 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 19:32:18

End at: 2017-11-16 19:32:48

Below is generated by plot.py at 2017-11-16 22:43:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.66 Mbit/s

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

Loss rate: 0.46%

-- Flow 1:

Average throughput: 46.80 Mbit/s

95th percentile per-packet one-way delay: 114.010 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 36.34 Mbit/s

95th percentile per-packet one-way delay: 113.841 ms

Loss rate: 0.33%

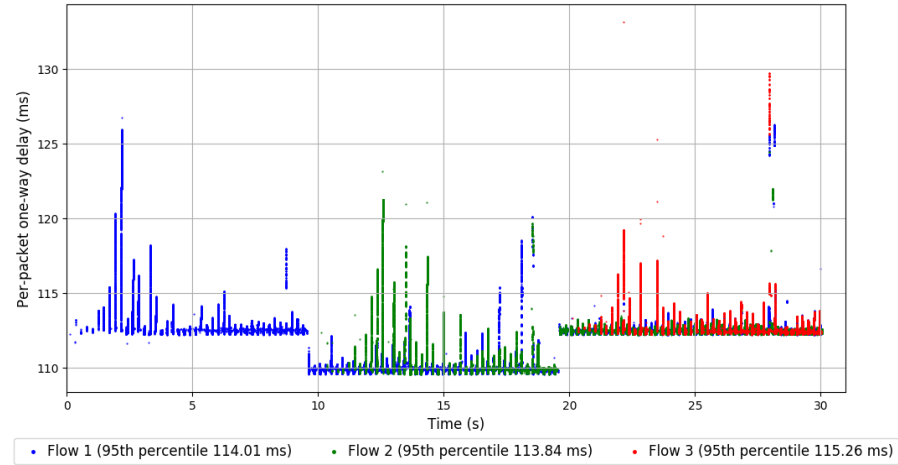
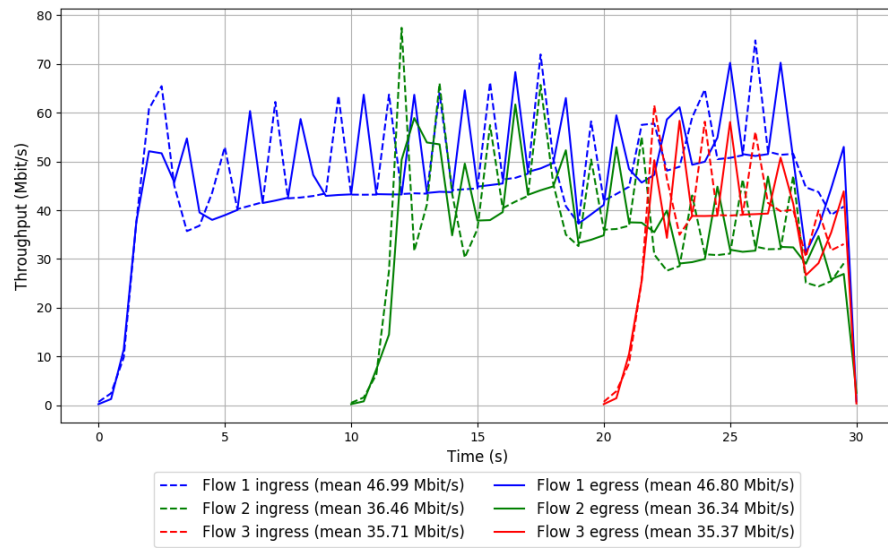
-- Flow 3:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 115.256 ms

Loss rate: 0.97%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 19:45:29

End at: 2017-11-16 19:45:59

Below is generated by plot.py at 2017-11-16 22:43:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 113.823 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 114.617 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 112.849 ms

Loss rate: 0.00%

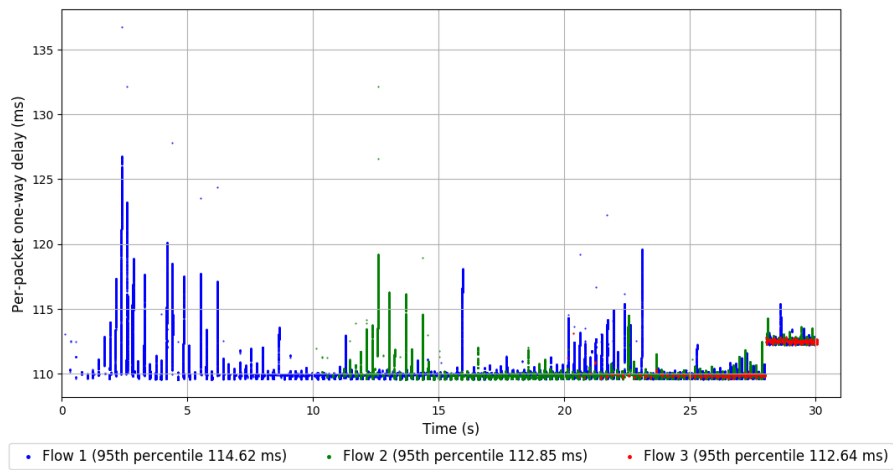
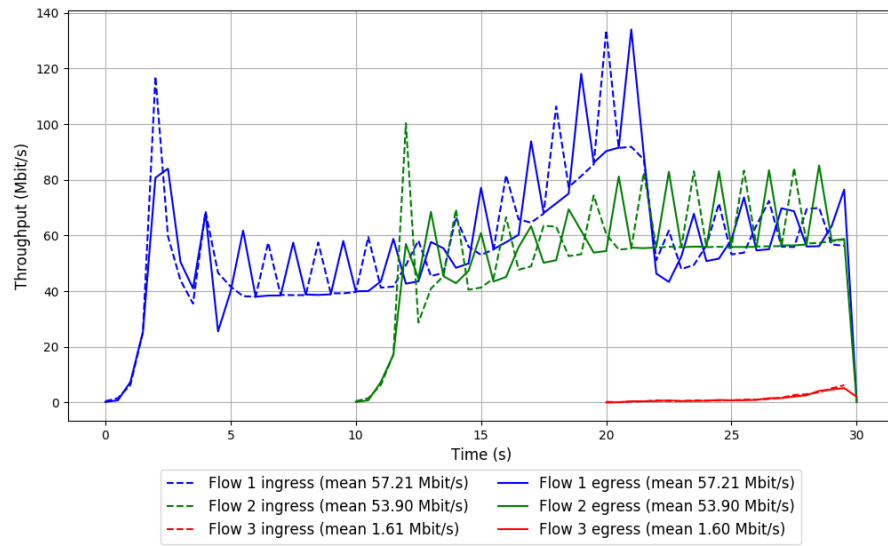
-- Flow 3:

Average throughput: 1.60 Mbit/s

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

Loss rate: 0.68%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 19:59:18

End at: 2017-11-16 19:59:48

Below is generated by plot.py at 2017-11-16 22:43:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.81 Mbit/s

95th percentile per-packet one-way delay: 113.727 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 55.25 Mbit/s

95th percentile per-packet one-way delay: 112.346 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.06 Mbit/s

95th percentile per-packet one-way delay: 116.110 ms

Loss rate: 0.01%

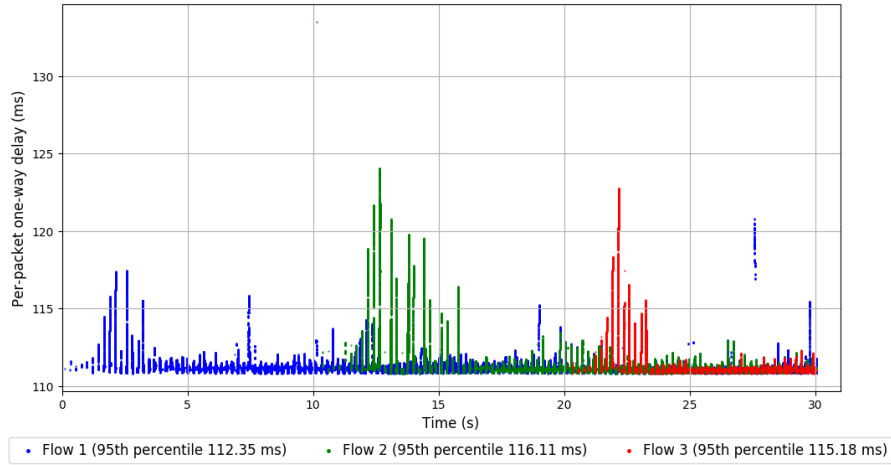
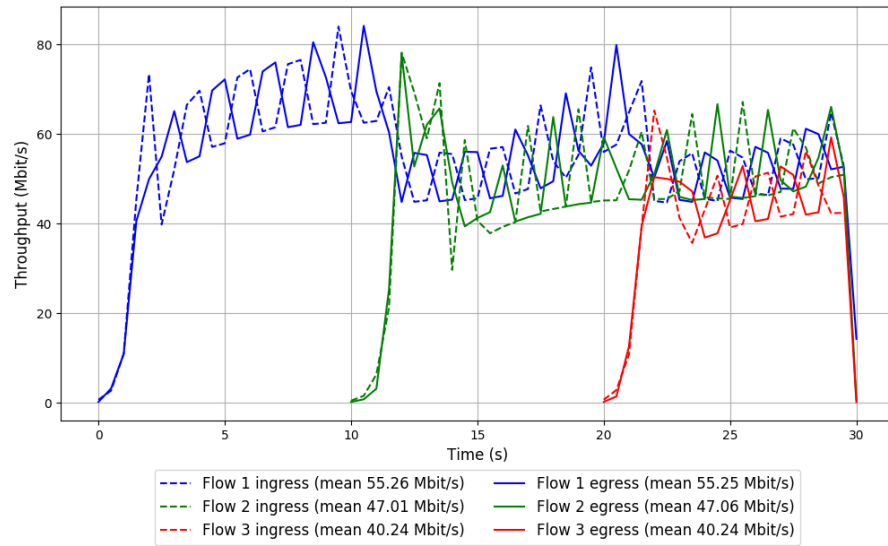
-- Flow 3:

Average throughput: 40.24 Mbit/s

95th percentile per-packet one-way delay: 115.178 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 20:12:34

End at: 2017-11-16 20:13:04

Below is generated by plot.py at 2017-11-16 22:44:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.08 Mbit/s

95th percentile per-packet one-way delay: 116.525 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 43.83 Mbit/s

95th percentile per-packet one-way delay: 114.028 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 64.55 Mbit/s

95th percentile per-packet one-way delay: 114.978 ms

Loss rate: 1.36%

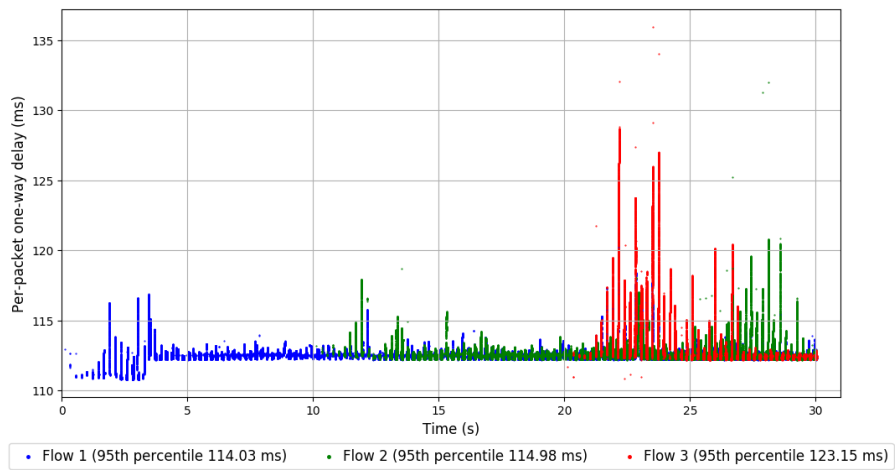
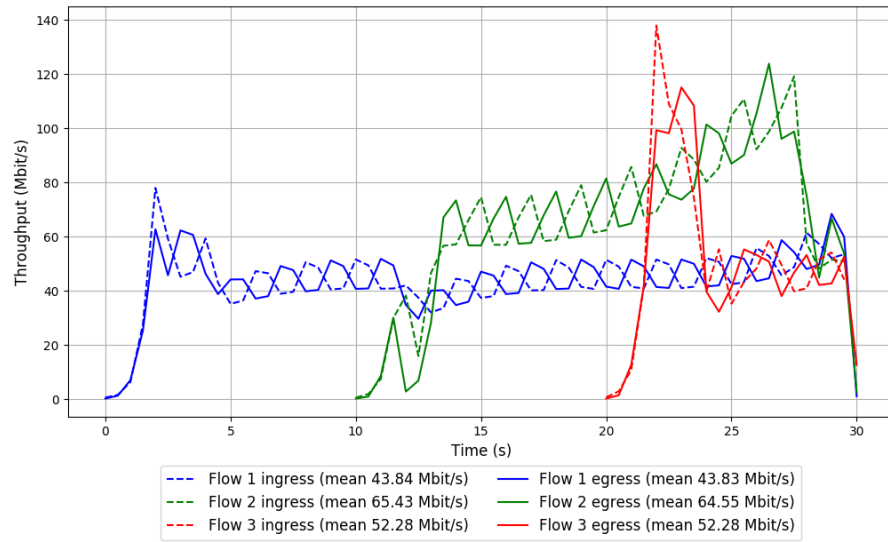
-- Flow 3:

Average throughput: 52.28 Mbit/s

95th percentile per-packet one-way delay: 123.146 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 20:26:14

End at: 2017-11-16 20:26:44

Below is generated by plot.py at 2017-11-16 22:44:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.44 Mbit/s

95th percentile per-packet one-way delay: 116.495 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.58 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 117.369 ms

Loss rate: 0.01%

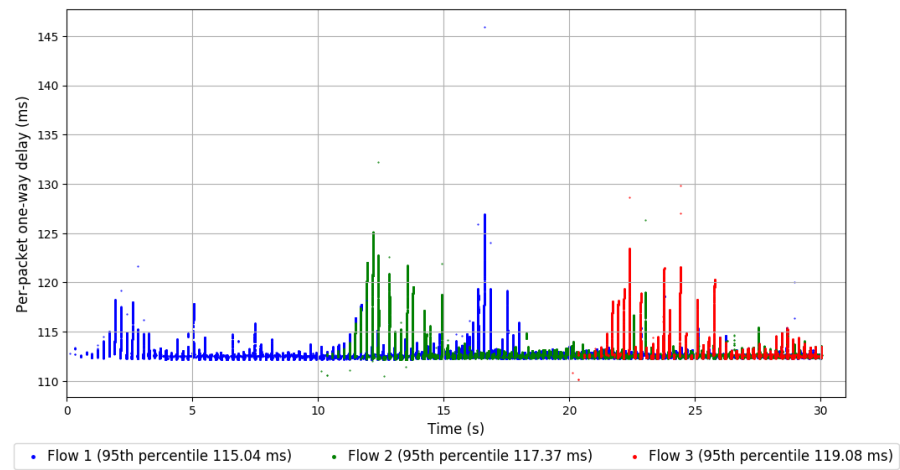
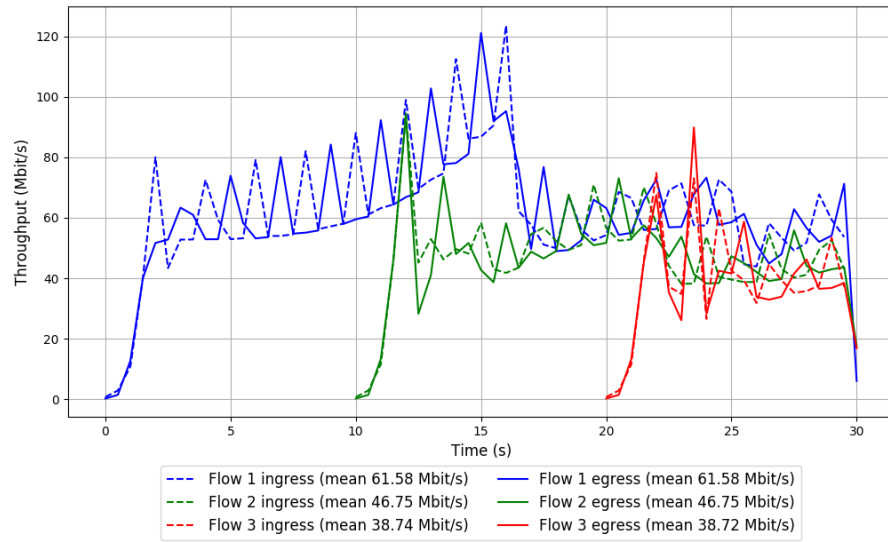
-- Flow 3:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 119.079 ms

Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 20:40:03

End at: 2017-11-16 20:40:33

Below is generated by plot.py at 2017-11-16 22:44:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.42 Mbit/s

95th percentile per-packet one-way delay: 117.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 117.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 114.673 ms

Loss rate: 0.01%

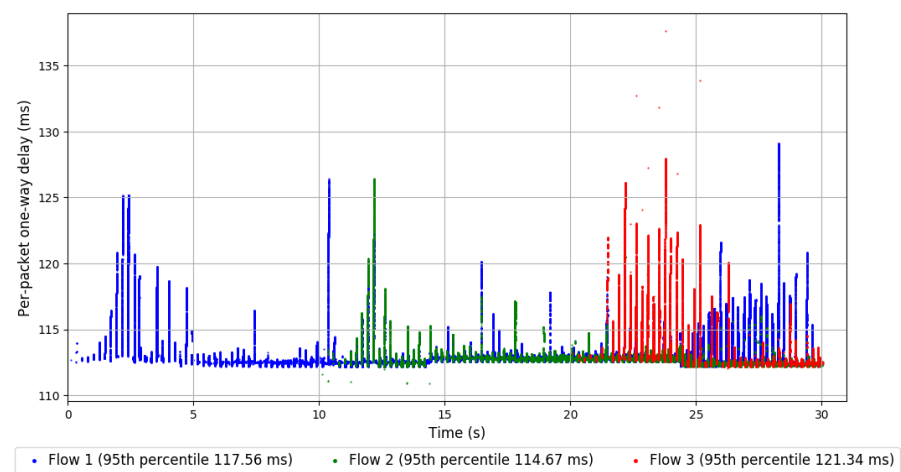
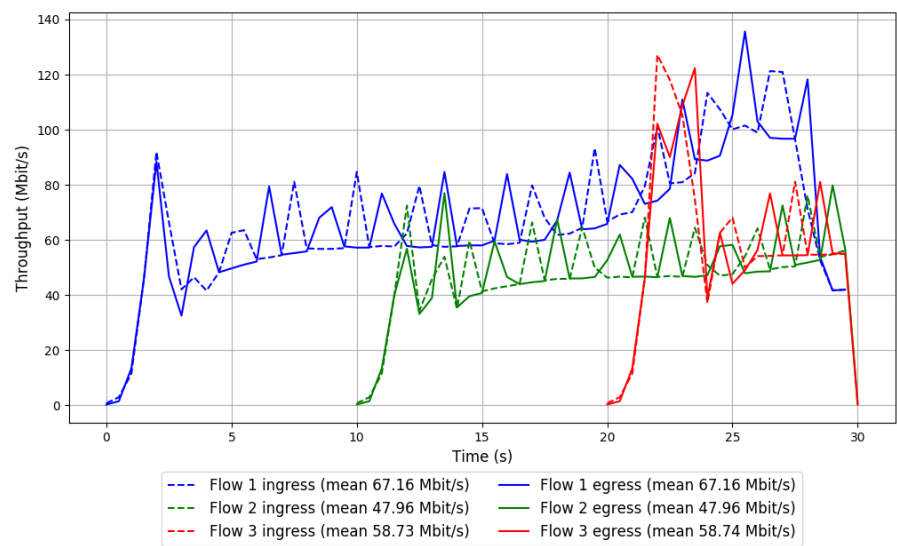
-- Flow 3:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 121.340 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 20:53:35

End at: 2017-11-16 20:54:05

Below is generated by plot.py at 2017-11-16 22:45:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 116.409 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 116.835 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 57.08 Mbit/s

95th percentile per-packet one-way delay: 116.777 ms

Loss rate: 0.00%

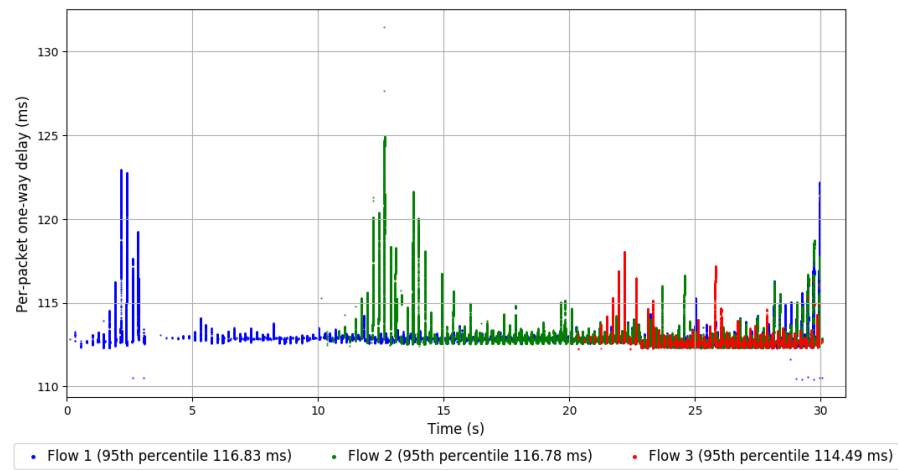
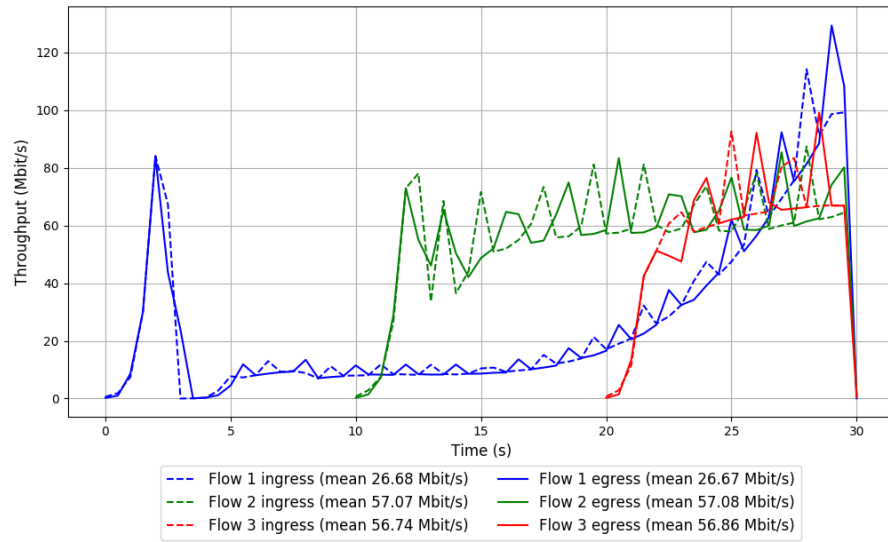
-- Flow 3:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 114.489 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 21:06:45

End at: 2017-11-16 21:07:15

Below is generated by plot.py at 2017-11-16 22:45:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 118.480 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 27.95 Mbit/s

95th percentile per-packet one-way delay: 116.051 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 117.021 ms

Loss rate: 0.02%

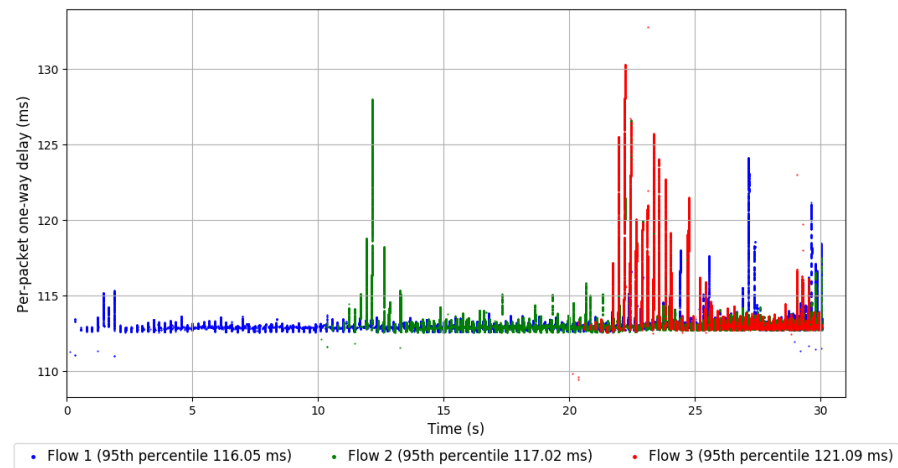
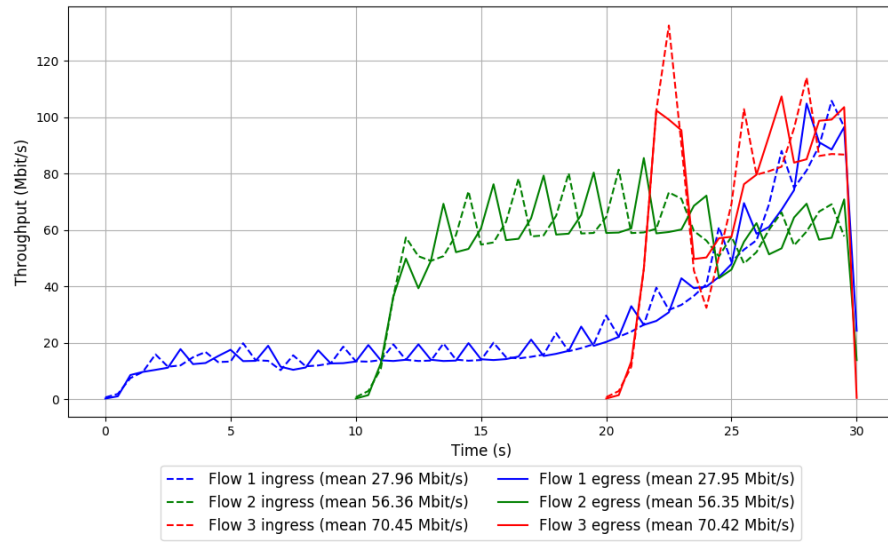
-- Flow 3:

Average throughput: 70.42 Mbit/s

95th percentile per-packet one-way delay: 121.086 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 21:20:35

End at: 2017-11-16 21:21:05

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.83 Mbit/s

95th percentile per-packet one-way delay: 113.454 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.96 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 114.112 ms

Loss rate: 0.00%

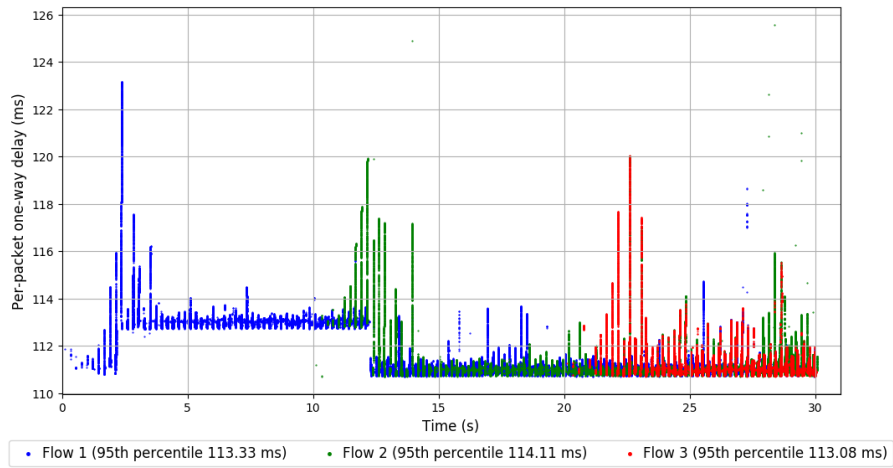
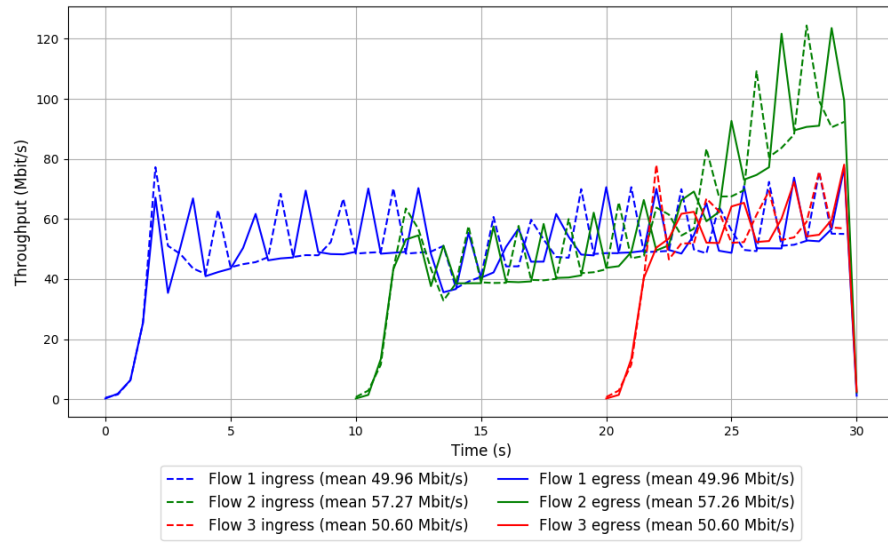
-- Flow 3:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 113.084 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 21:33:46

End at: 2017-11-16 21:34:16

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.10 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 116.161 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 114.152 ms

Loss rate: 0.00%

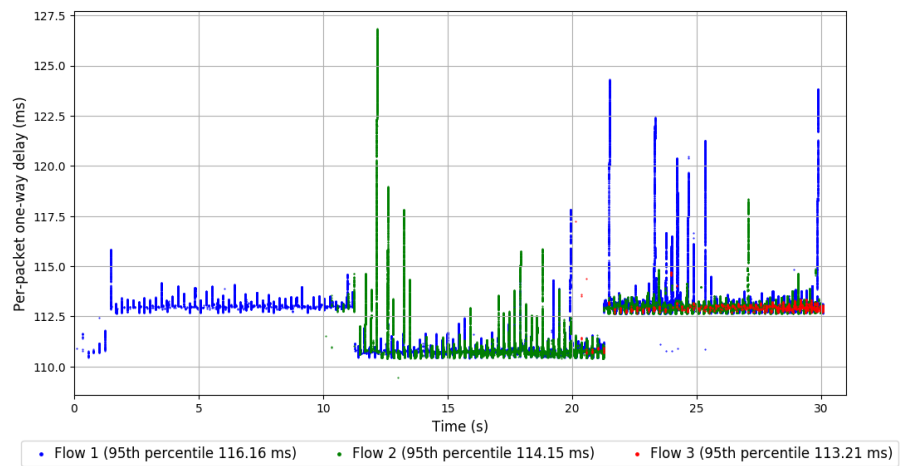
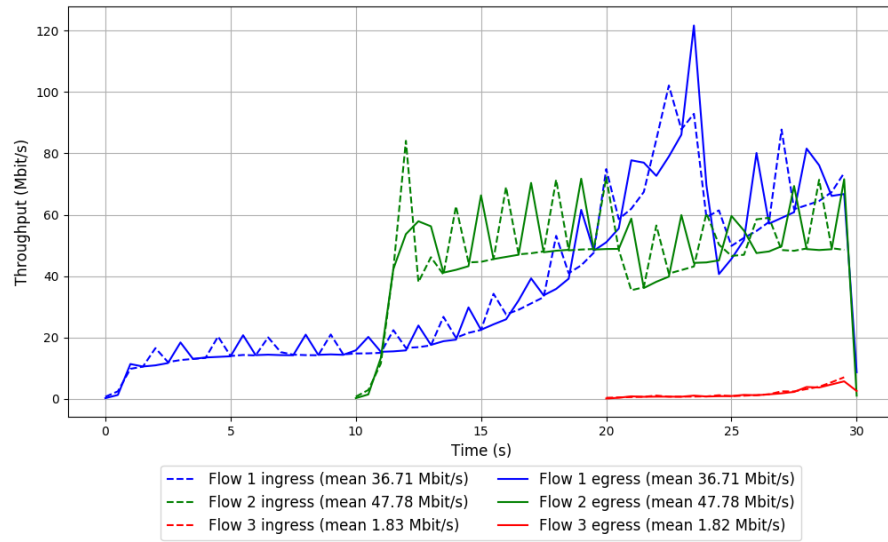
-- Flow 3:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 113.206 ms

Loss rate: 0.33%

Run 10: Report of TCP Cubic — Data Link

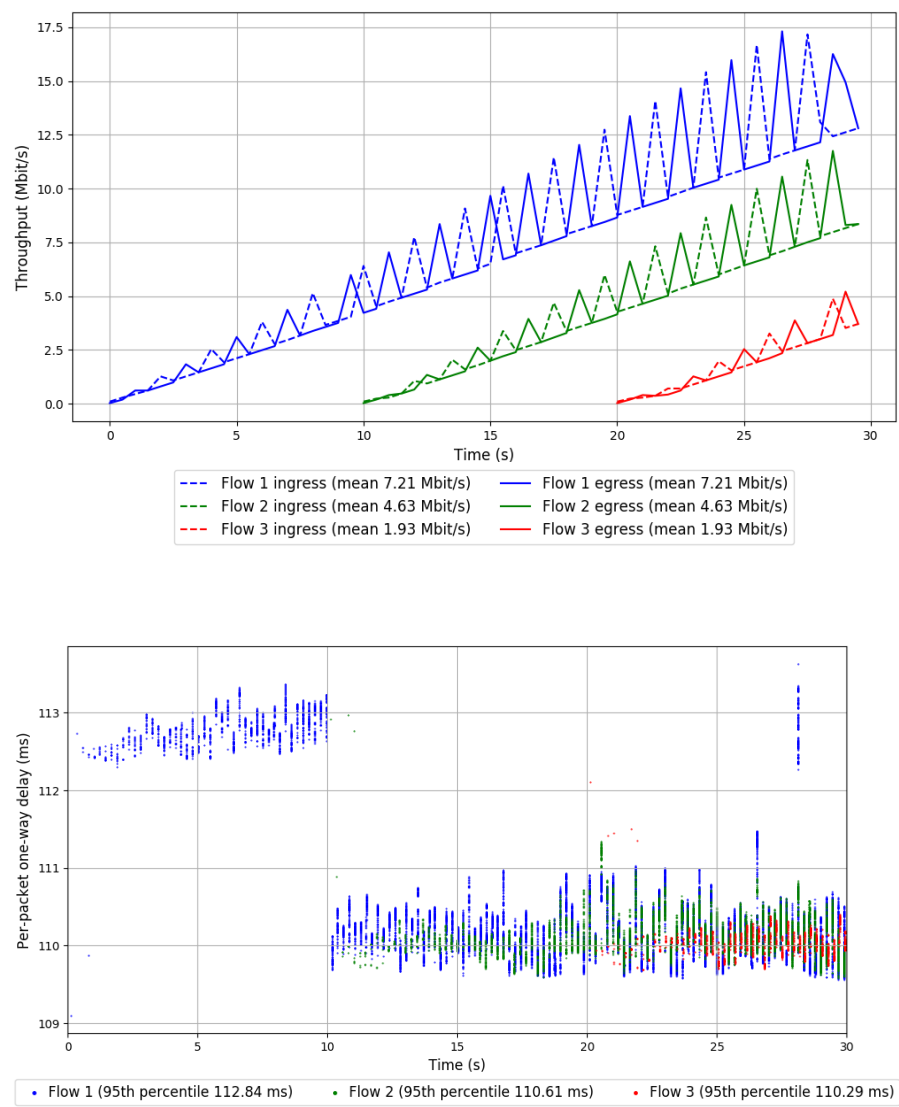


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 19:36:37
End at: 2017-11-16 19:37:07

# Below is generated by plot.py at 2017-11-16 22:45:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 112.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 112.839 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 110.611 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 110.288 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

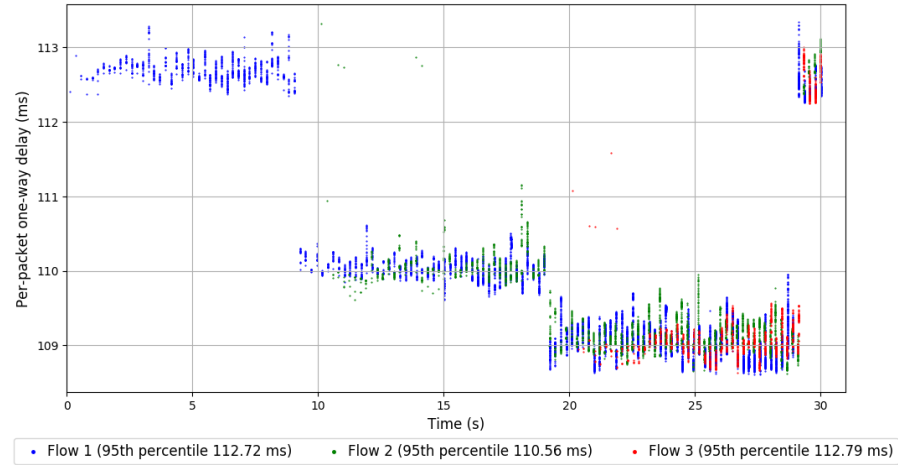
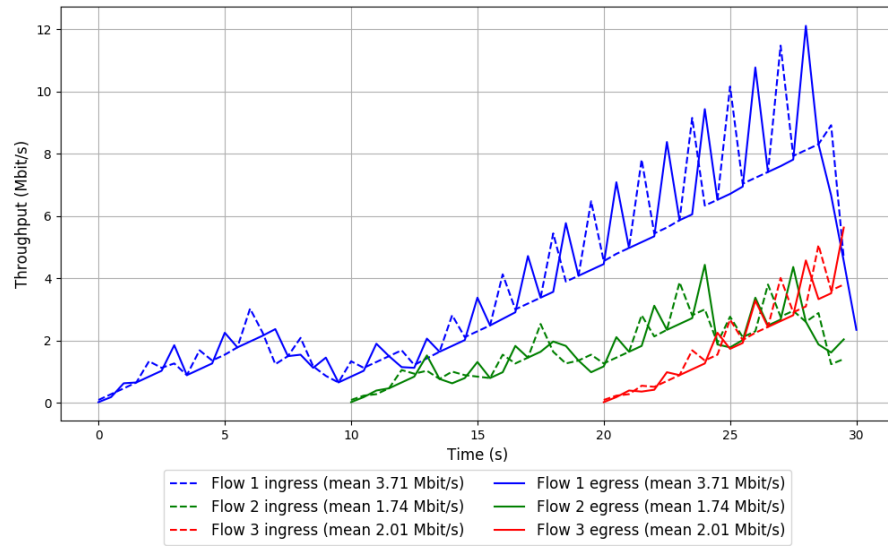


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-16 19:49:48
End at: 2017-11-16 19:50:18

# Below is generated by plot.py at 2017-11-16 22:45:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 112.703 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 112.725 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 110.560 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 112.786 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-16 20:03:38

End at: 2017-11-16 20:04:08

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.95 Mbit/s

95th percentile per-packet one-way delay: 111.502 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 111.539 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 111.241 ms

Loss rate: 1.10%

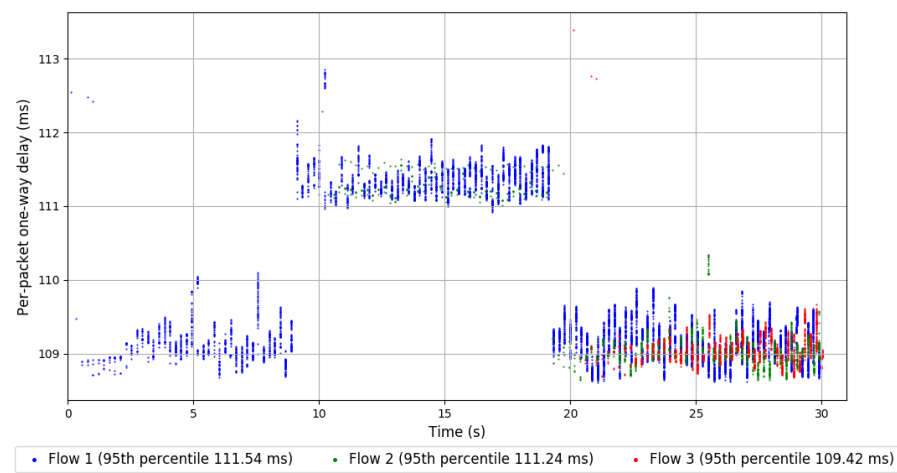
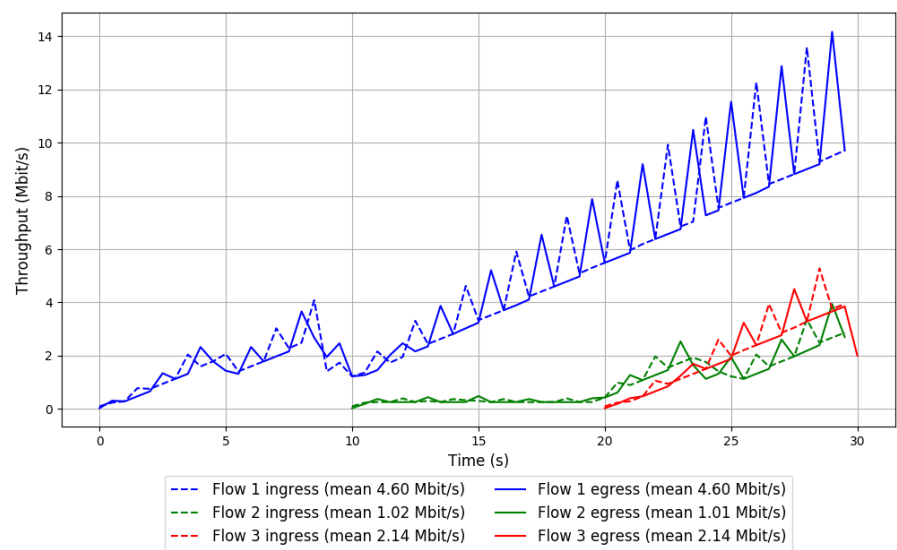
-- Flow 3:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 109.417 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-16 20:16:55

End at: 2017-11-16 20:17:25

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 113.060 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 3.31 Mbit/s

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

Loss rate: 0.11%

-- Flow 2:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 113.172 ms

Loss rate: 0.17%

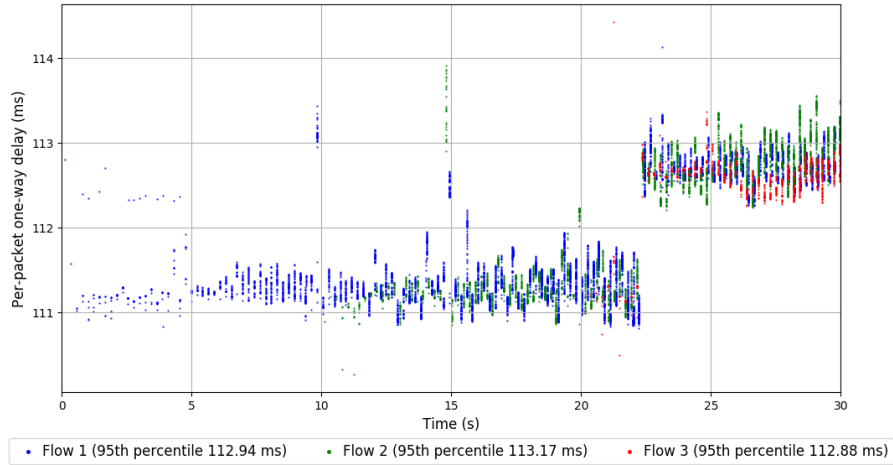
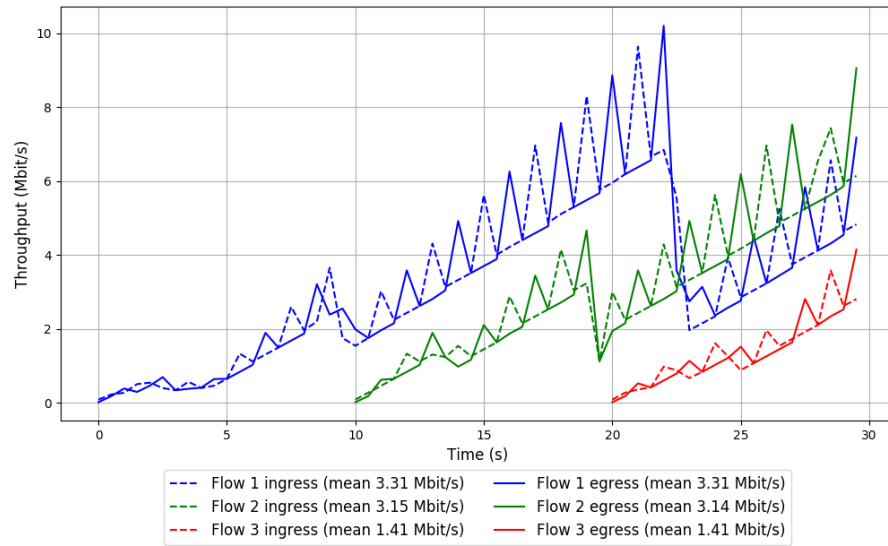
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 112.879 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-16 20:30:35

End at: 2017-11-16 20:31:05

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 113.091 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 113.216 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 113.022 ms

Loss rate: 0.12%

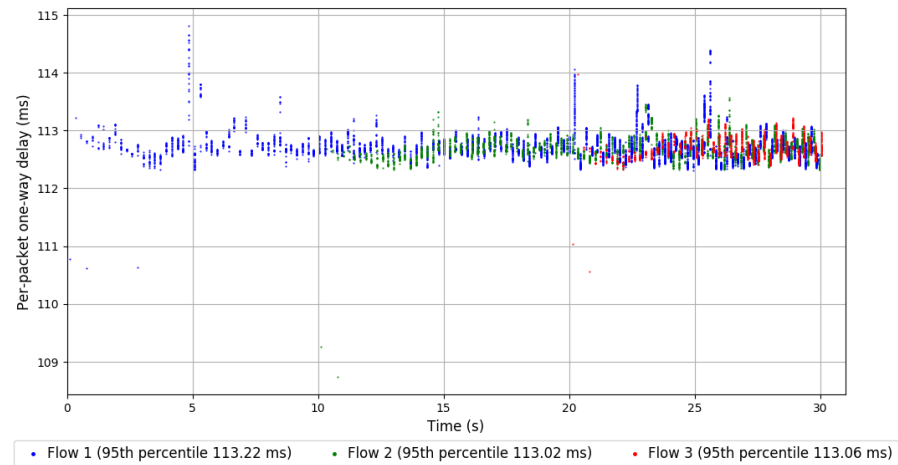
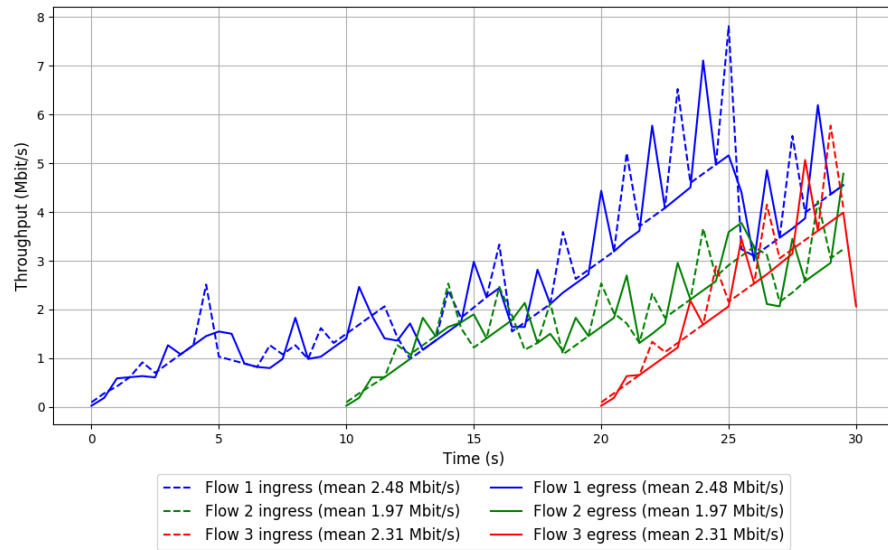
-- Flow 3:

Average throughput: 2.31 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-16 20:44:26

End at: 2017-11-16 20:44:56

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 113.231 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.12%

-- Flow 2:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 113.246 ms

Loss rate: 0.00%

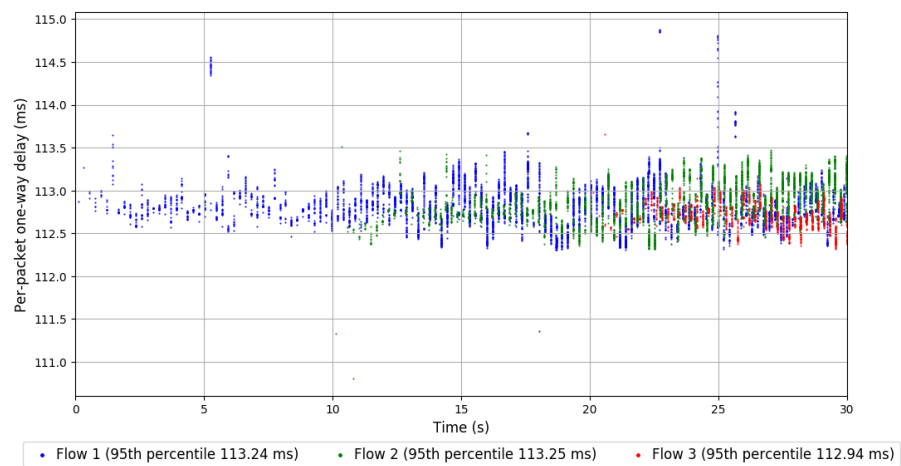
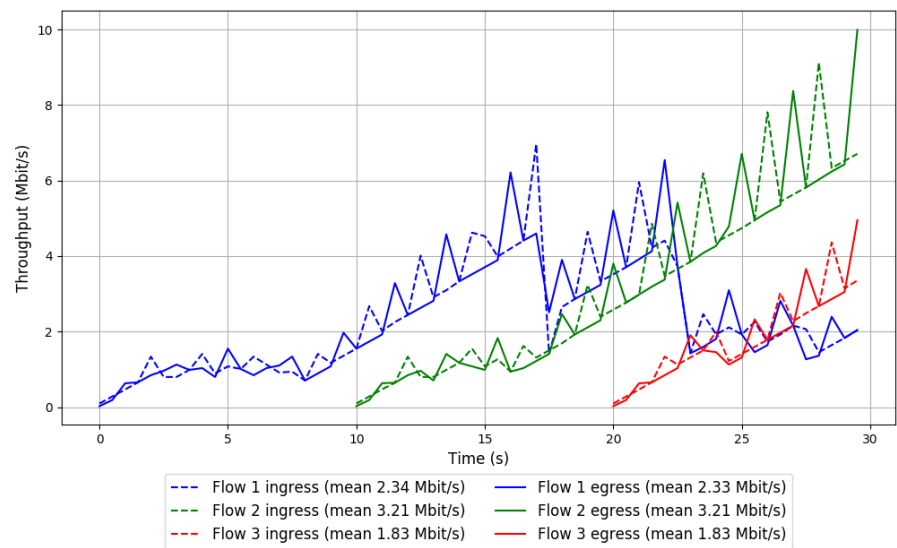
-- Flow 3:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 112.941 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 20:57:55

End at: 2017-11-16 20:58:25

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 113.333 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.66 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 113.309 ms

Loss rate: 0.25%

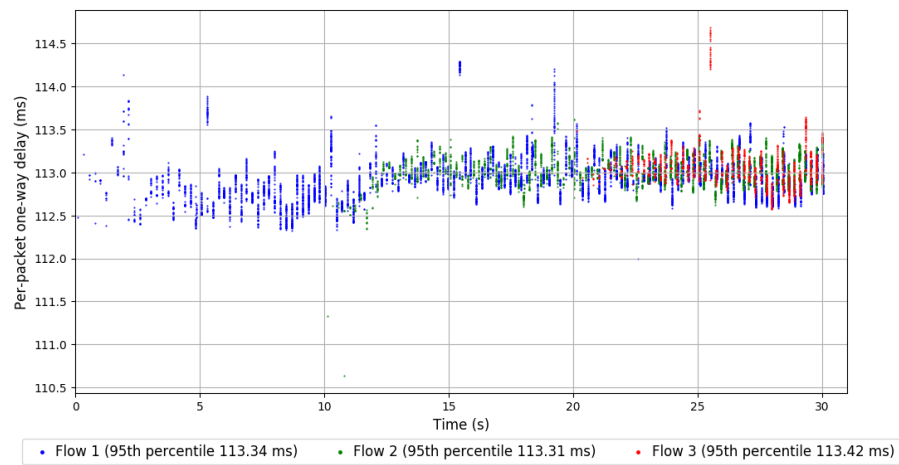
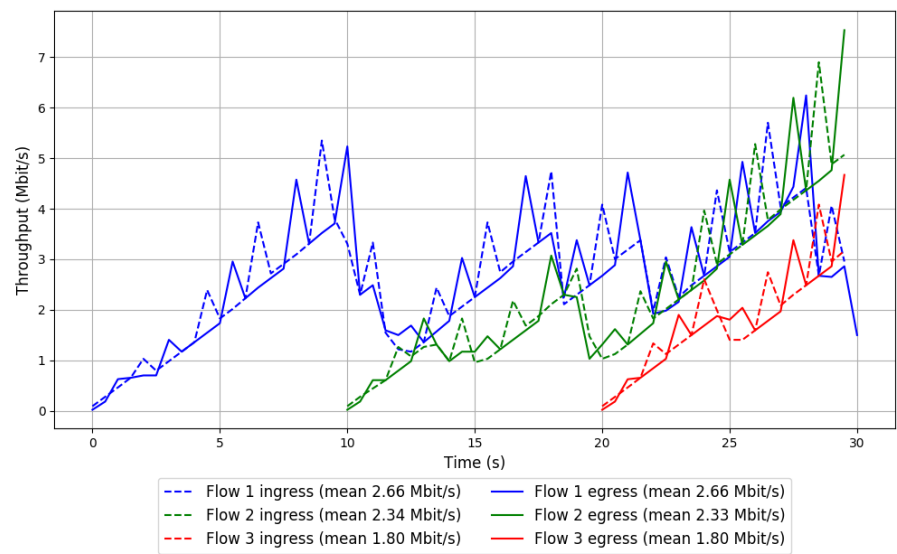
-- Flow 3:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 113.419 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 21:11:04

End at: 2017-11-16 21:11:34

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 113.554 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 113.384 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 4.64 Mbit/s

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

Loss rate: 0.00%

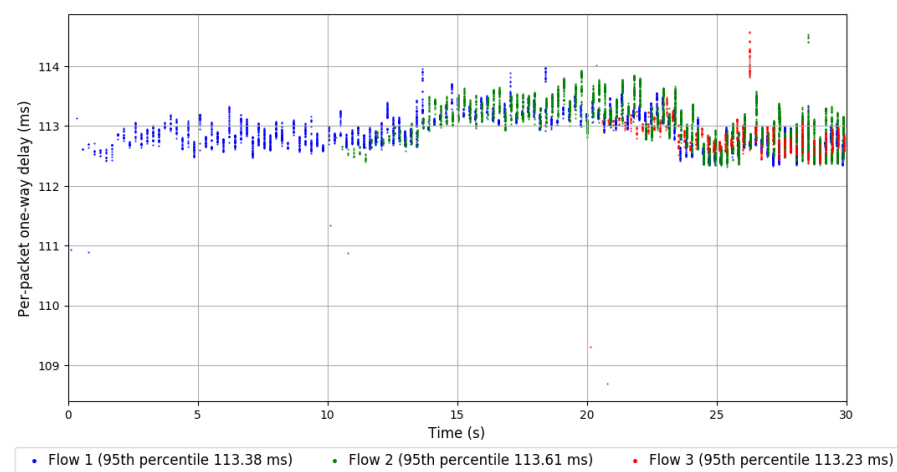
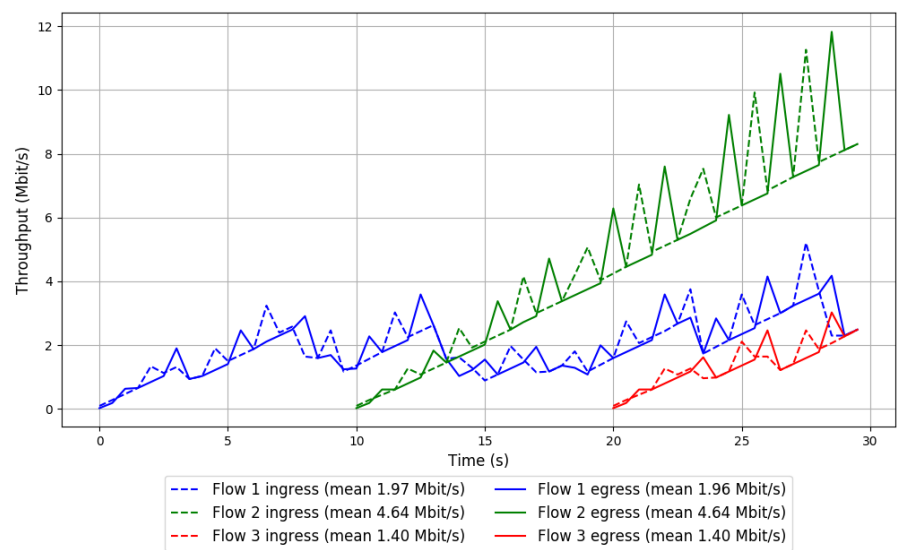
-- Flow 3:

Average throughput: 1.40 Mbit/s

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

Loss rate: 0.09%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 21:24:55

End at: 2017-11-16 21:25:25

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 113.338 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 113.296 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 113.344 ms

Loss rate: 1.22%

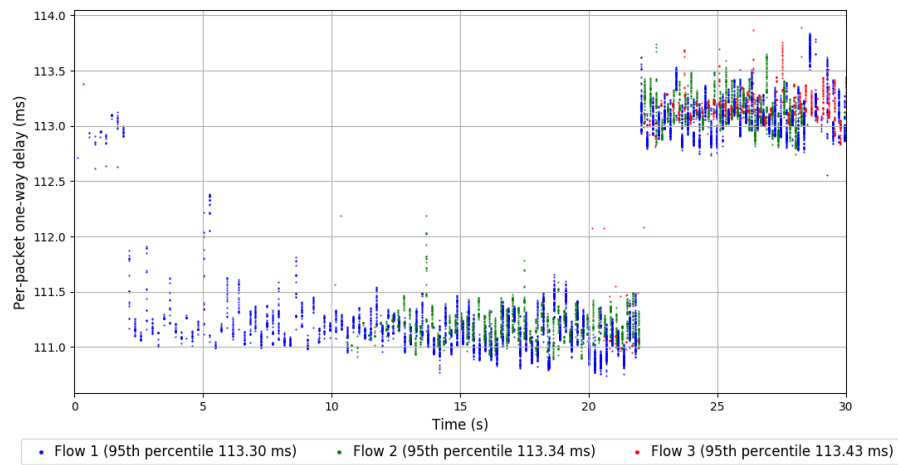
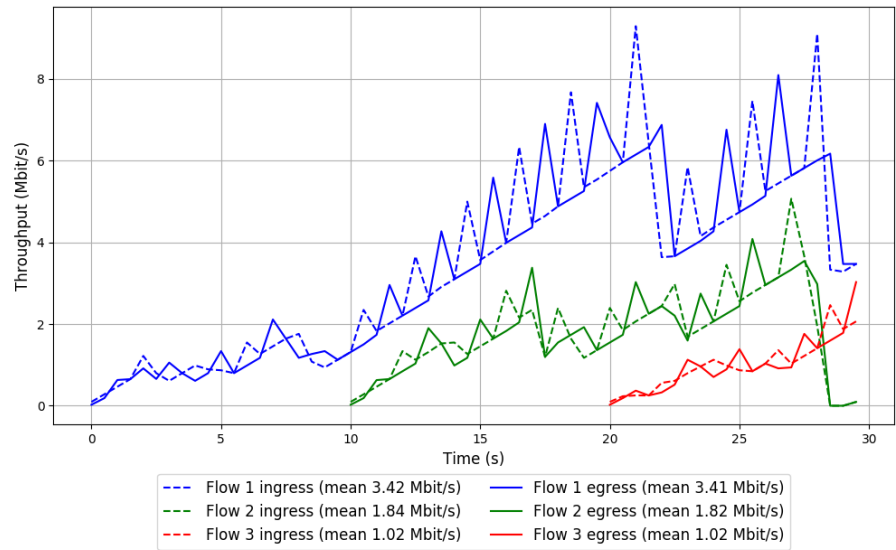
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 113.433 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-16 21:38:05

End at: 2017-11-16 21:38:35

Below is generated by plot.py at 2017-11-16 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 111.598 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 111.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 111.356 ms

Loss rate: 0.49%

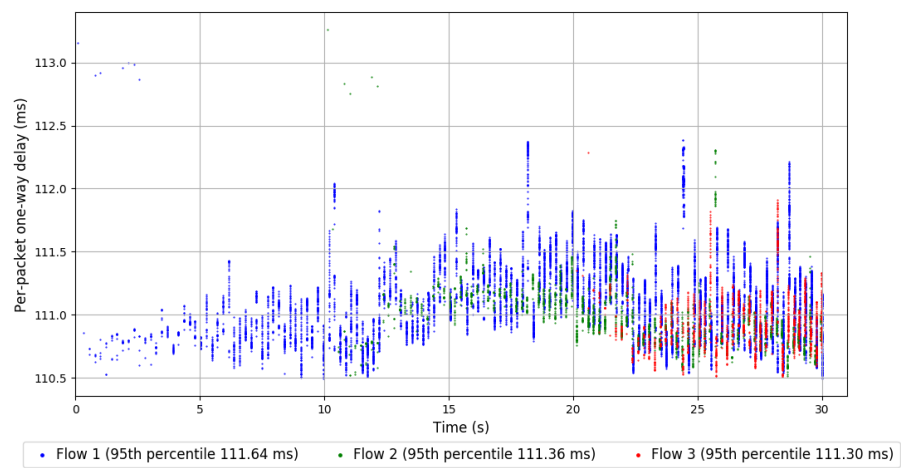
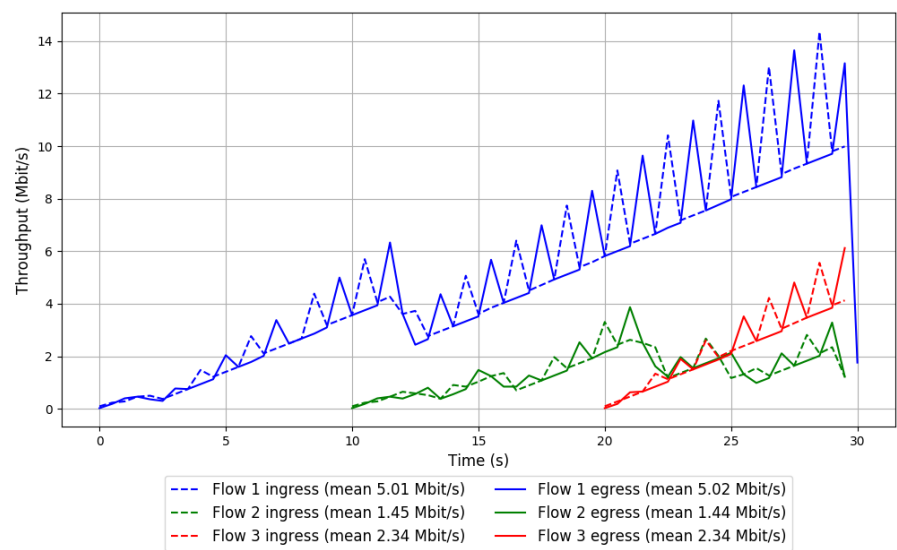
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 111.295 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

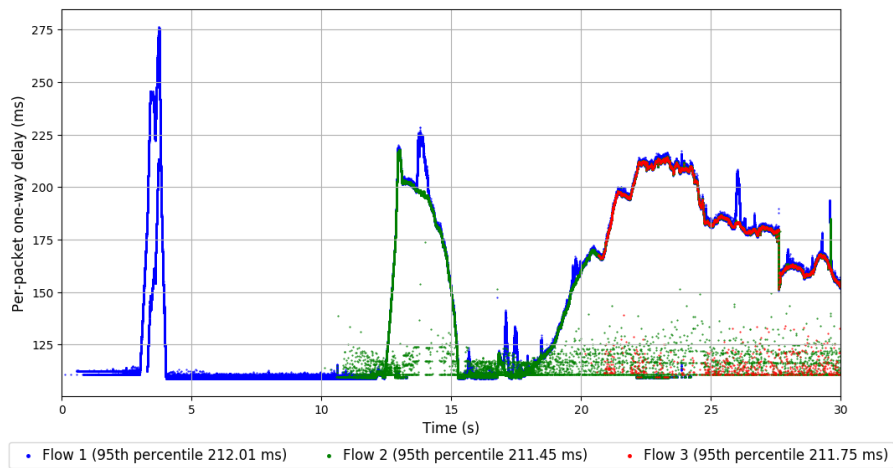
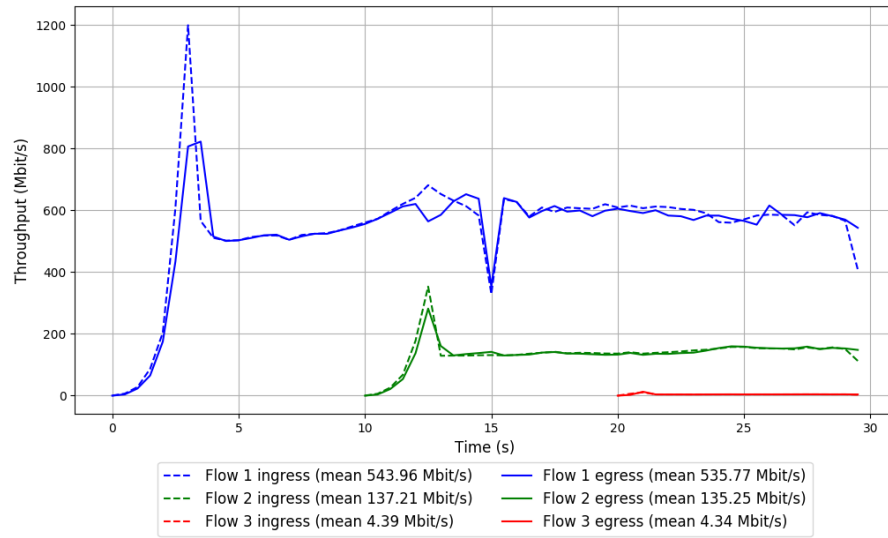


```
Run 1: Statistics of PCC

Start at: 2017-11-16 19:29:04
End at: 2017-11-16 19:29:34

# Below is generated by plot.py at 2017-11-16 22:55:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 627.08 Mbit/s
95th percentile per-packet one-way delay: 211.900 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 535.77 Mbit/s
95th percentile per-packet one-way delay: 212.007 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 135.25 Mbit/s
95th percentile per-packet one-way delay: 211.446 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 211.753 ms
Loss rate: 1.08%
```

Run 1: Report of PCC — Data Link

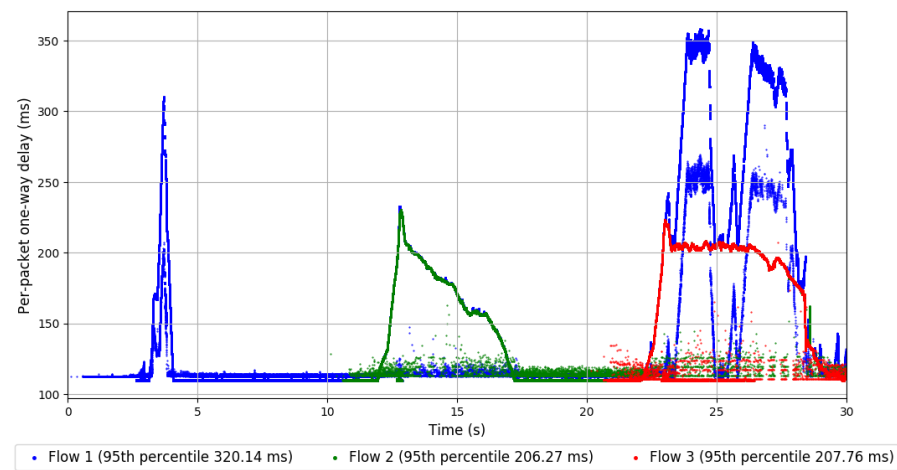
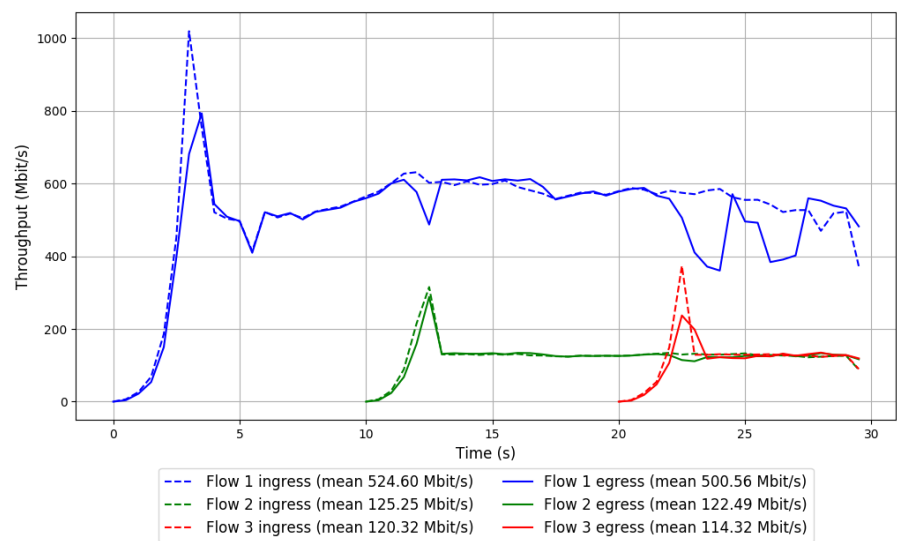


```
Run 2: Statistics of PCC

Start at: 2017-11-16 19:42:15
End at: 2017-11-16 19:42:45

# Below is generated by plot.py at 2017-11-16 22:55:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 619.44 Mbit/s
95th percentile per-packet one-way delay: 304.349 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 500.56 Mbit/s
95th percentile per-packet one-way delay: 320.142 ms
Loss rate: 4.58%
-- Flow 2:
Average throughput: 122.49 Mbit/s
95th percentile per-packet one-way delay: 206.271 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 114.32 Mbit/s
95th percentile per-packet one-way delay: 207.756 ms
Loss rate: 5.04%
```

Run 2: Report of PCC — Data Link

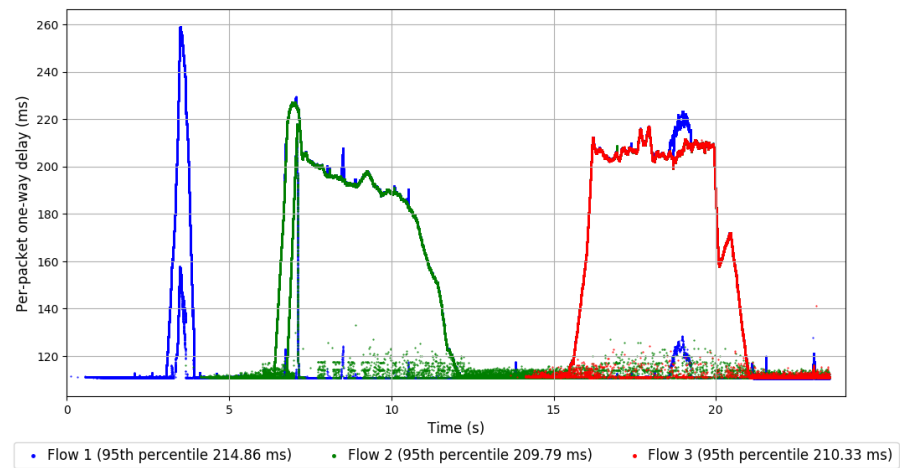
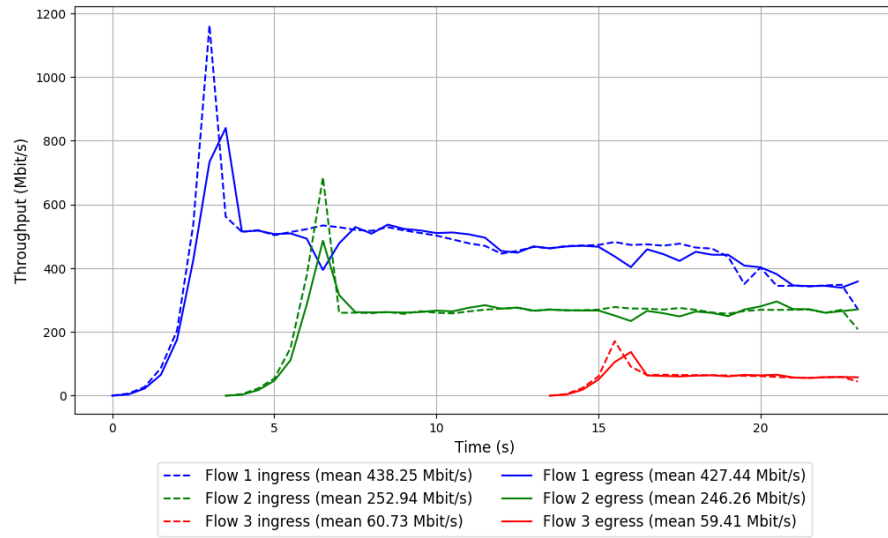


Run 3: Statistics of PCC

Start at: 2017-11-16 19:56:07

End at: 2017-11-16 19:56:37

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 20:09:22

End at: 2017-11-16 20:09:52

Below is generated by plot.py at 2017-11-16 22:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.13 Mbit/s

95th percentile per-packet one-way delay: 239.635 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 466.53 Mbit/s

95th percentile per-packet one-way delay: 251.860 ms

Loss rate: 2.85%

-- Flow 2:

Average throughput: 132.42 Mbit/s

95th percentile per-packet one-way delay: 219.019 ms

Loss rate: 3.23%

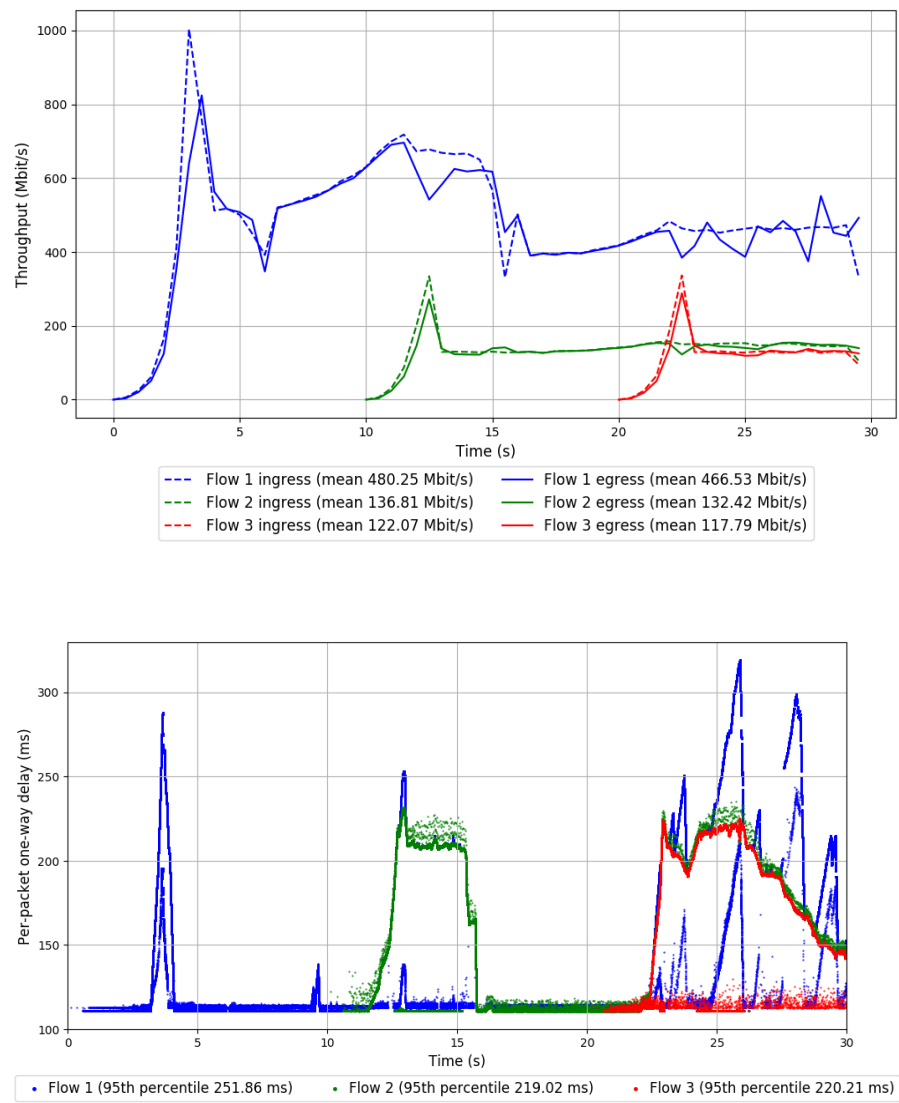
-- Flow 3:

Average throughput: 117.79 Mbit/s

95th percentile per-packet one-way delay: 220.214 ms

Loss rate: 3.45%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 20:22:59

End at: 2017-11-16 20:23:29

Below is generated by plot.py at 2017-11-16 22:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 623.10 Mbit/s

95th percentile per-packet one-way delay: 222.907 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 516.08 Mbit/s

95th percentile per-packet one-way delay: 226.047 ms

Loss rate: 3.84%

-- Flow 2:

Average throughput: 131.10 Mbit/s

95th percentile per-packet one-way delay: 214.275 ms

Loss rate: 2.47%

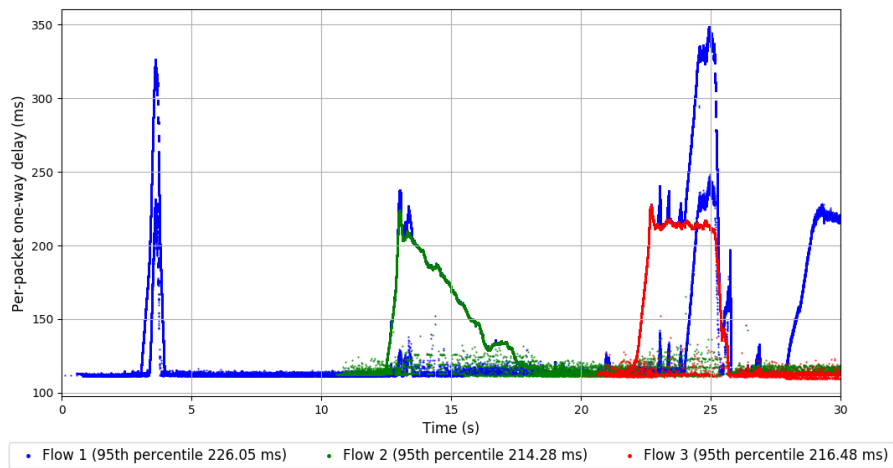
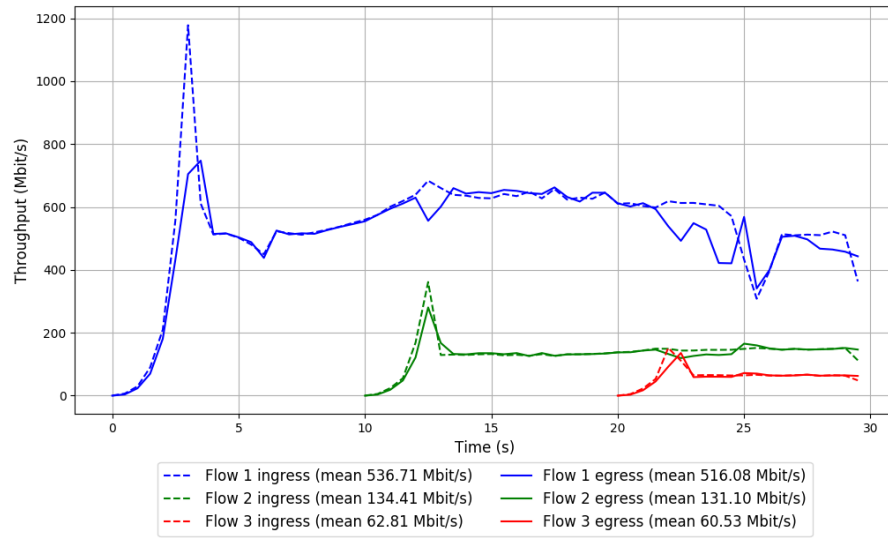
-- Flow 3:

Average throughput: 60.53 Mbit/s

95th percentile per-packet one-way delay: 216.479 ms

Loss rate: 3.61%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-16 20:36:50

End at: 2017-11-16 20:37:20

Below is generated by plot.py at 2017-11-16 22:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 607.98 Mbit/s

95th percentile per-packet one-way delay: 215.044 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 508.89 Mbit/s

95th percentile per-packet one-way delay: 222.445 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 132.53 Mbit/s

95th percentile per-packet one-way delay: 212.399 ms

Loss rate: 0.71%

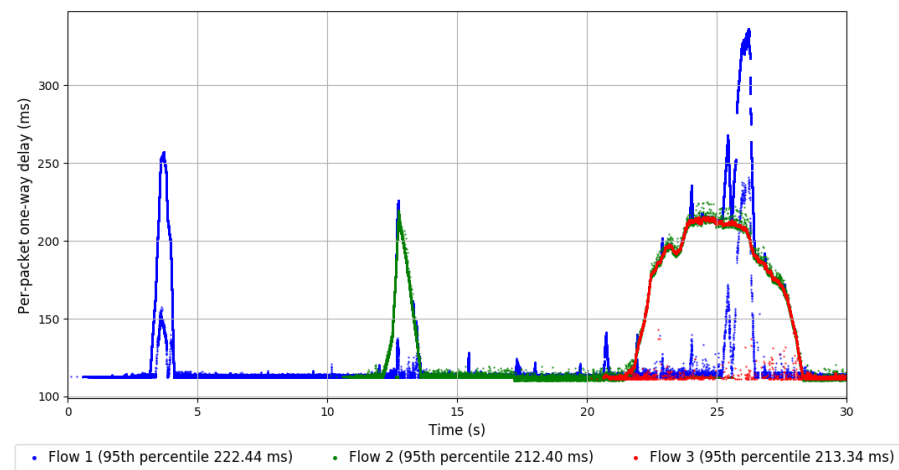
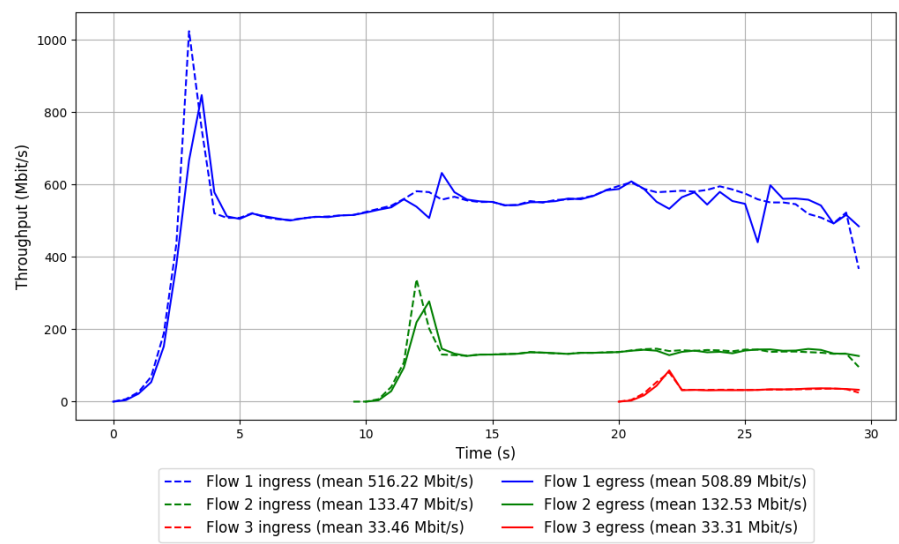
-- Flow 3:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 213.336 ms

Loss rate: 0.45%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 20:50:21

End at: 2017-11-16 20:50:51

Below is generated by plot.py at 2017-11-16 22:56:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 633.02 Mbit/s

95th percentile per-packet one-way delay: 216.634 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 485.19 Mbit/s

95th percentile per-packet one-way delay: 216.596 ms

Loss rate: 3.09%

-- Flow 2:

Average throughput: 221.34 Mbit/s

95th percentile per-packet one-way delay: 216.718 ms

Loss rate: 3.93%

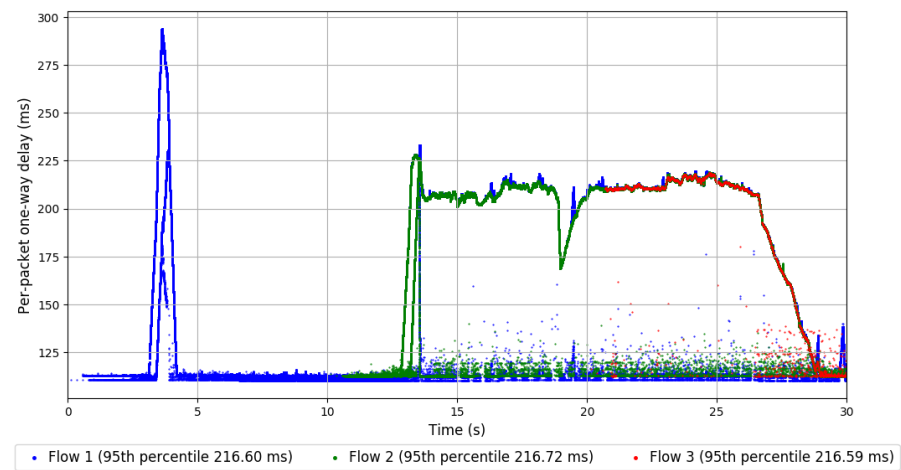
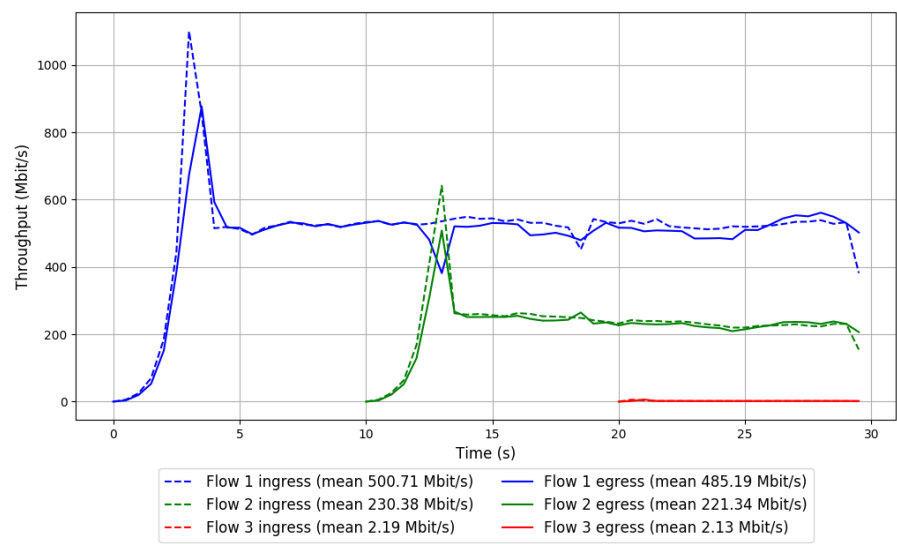
-- Flow 3:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 216.586 ms

Loss rate: 2.84%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-16 21:03:31

End at: 2017-11-16 21:04:01

Below is generated by plot.py at 2017-11-16 22:56:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 629.87 Mbit/s

95th percentile per-packet one-way delay: 261.404 ms

Loss rate: 3.21%

-- Flow 1:

Average throughput: 517.17 Mbit/s

95th percentile per-packet one-way delay: 275.036 ms

Loss rate: 3.66%

-- Flow 2:

Average throughput: 153.67 Mbit/s

95th percentile per-packet one-way delay: 209.221 ms

Loss rate: 1.15%

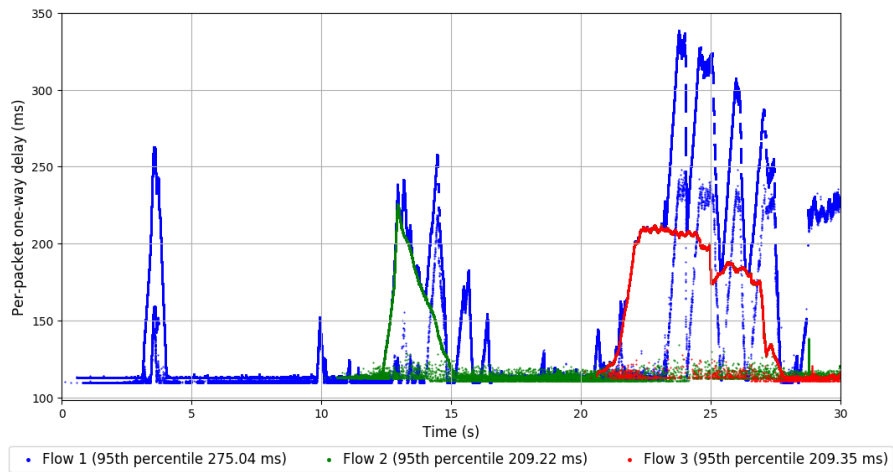
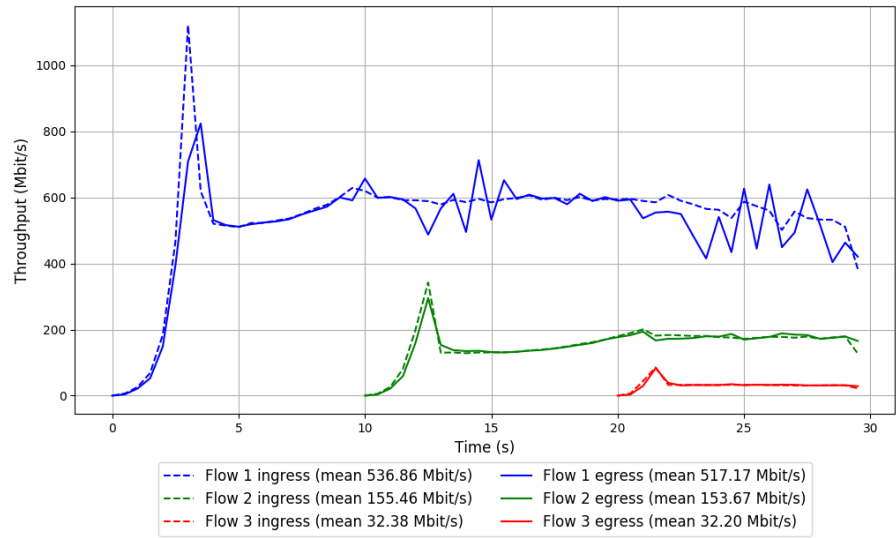
-- Flow 3:

Average throughput: 32.20 Mbit/s

95th percentile per-packet one-way delay: 209.354 ms

Loss rate: 0.58%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-16 21:17:21

End at: 2017-11-16 21:17:51

Below is generated by plot.py at 2017-11-16 23:05:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 634.93 Mbit/s

95th percentile per-packet one-way delay: 235.174 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 542.73 Mbit/s

95th percentile per-packet one-way delay: 240.601 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 122.99 Mbit/s

95th percentile per-packet one-way delay: 209.832 ms

Loss rate: 1.15%

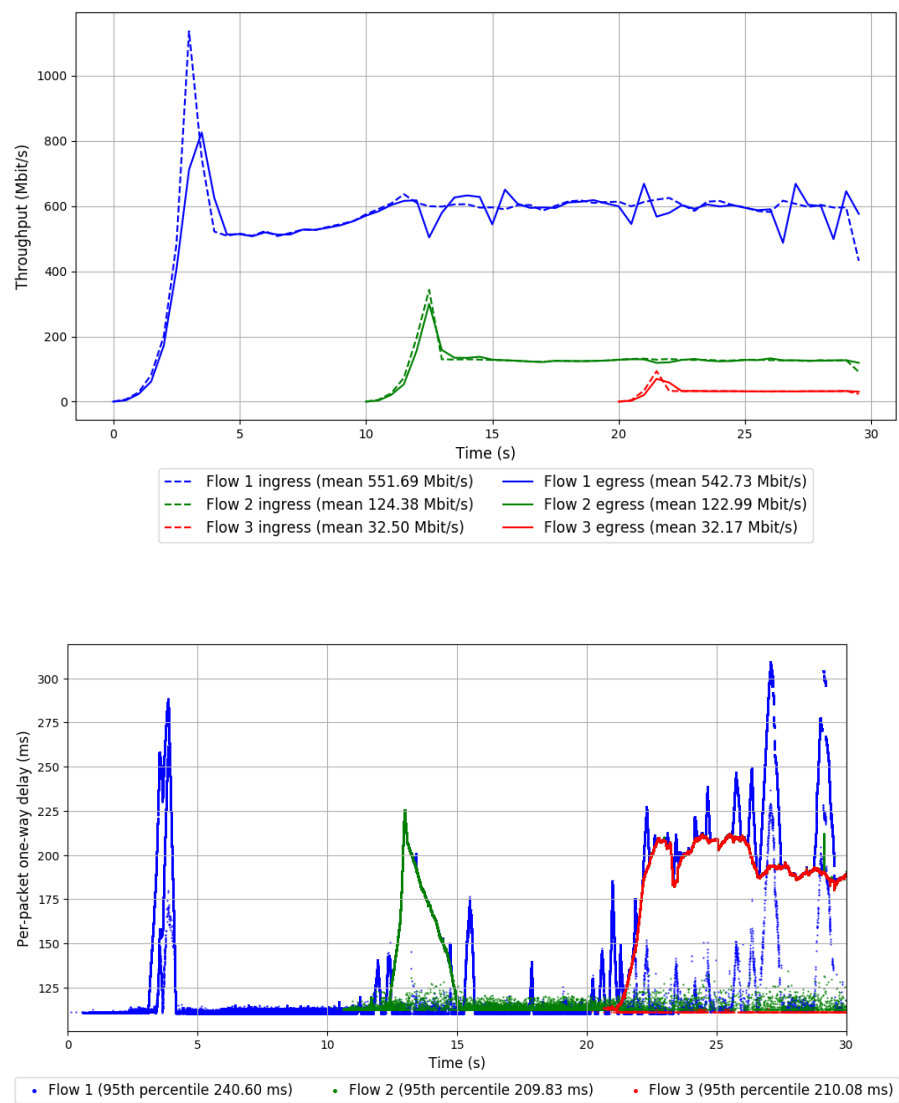
-- Flow 3:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 210.081 ms

Loss rate: 1.01%

Run 9: Report of PCC — Data Link

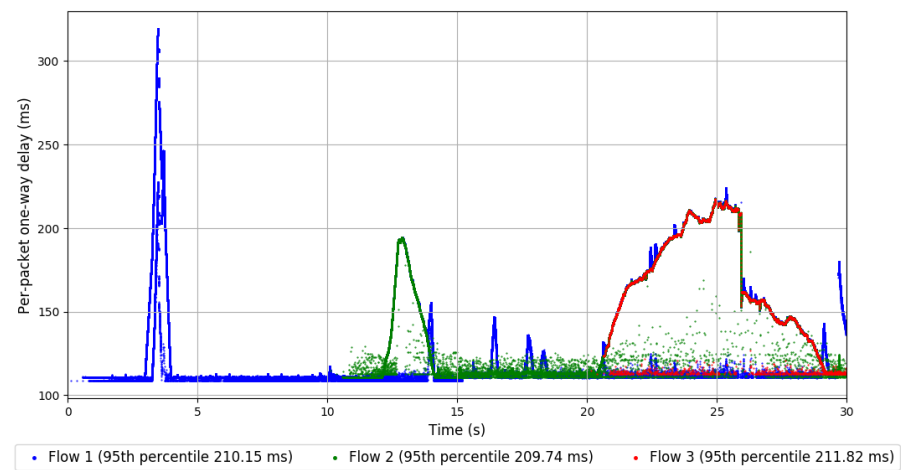
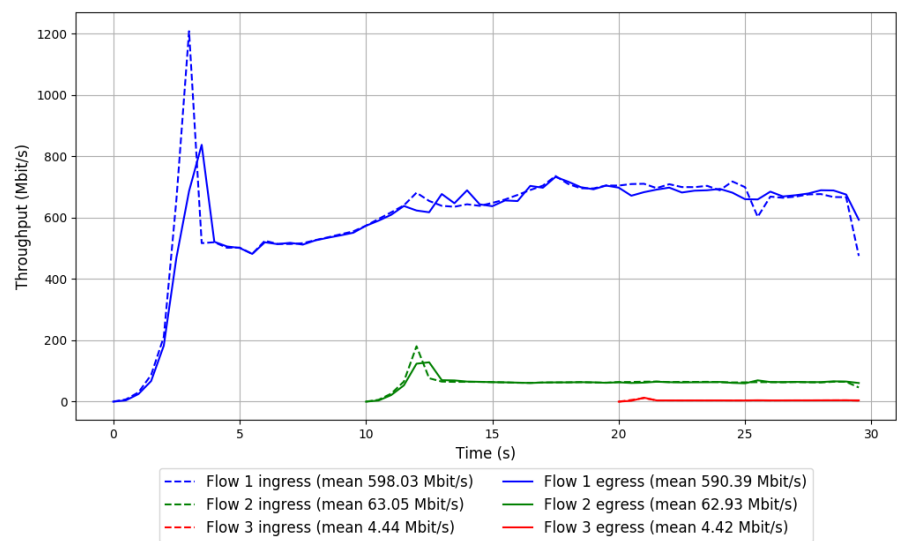


```
Run 10: Statistics of PCC

Start at: 2017-11-16 21:30:32
End at: 2017-11-16 21:31:02

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 633.66 Mbit/s
95th percentile per-packet one-way delay: 210.119 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 590.39 Mbit/s
95th percentile per-packet one-way delay: 210.145 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 209.739 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 211.824 ms
Loss rate: 0.44%
```

Run 10: Report of PCC — Data Link

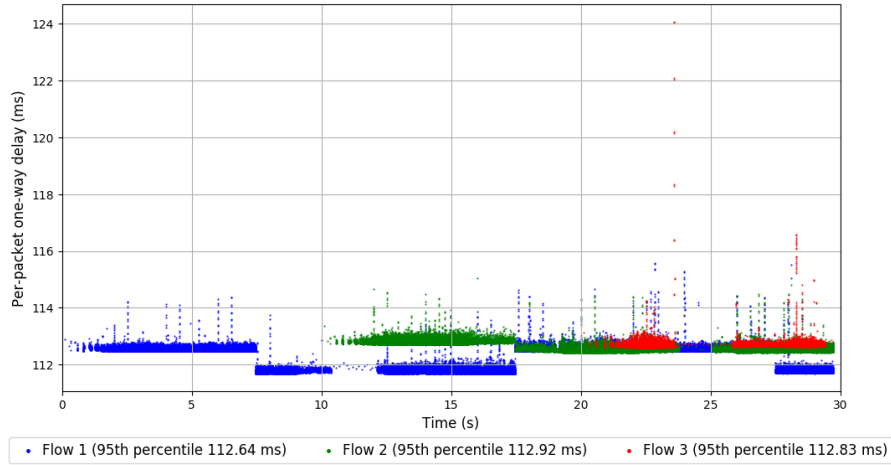
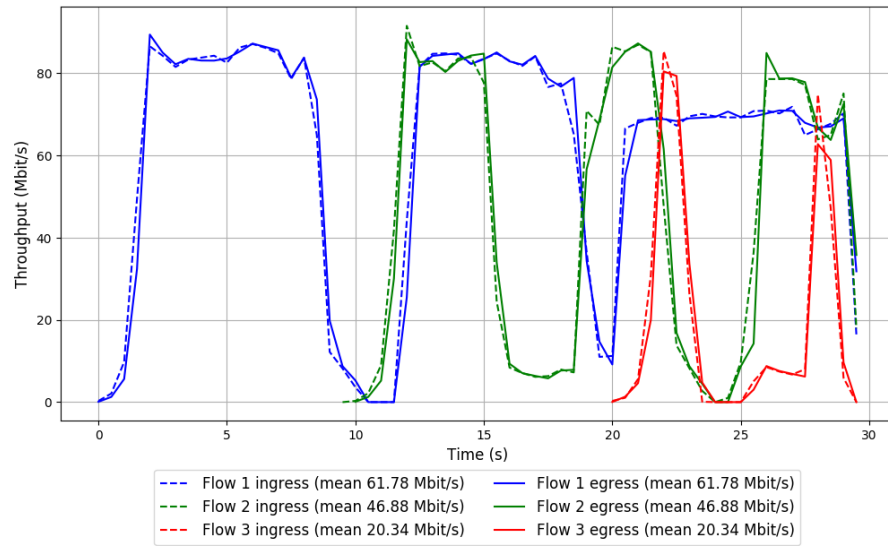


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 19:27:00
End at: 2017-11-16 19:27:30

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.40 Mbit/s
95th percentile per-packet one-way delay: 112.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 112.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 112.925 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 112.832 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 19:40:13

End at: 2017-11-16 19:40:43

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 112.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.65 Mbit/s

95th percentile per-packet one-way delay: 112.409 ms

Loss rate: 0.00%

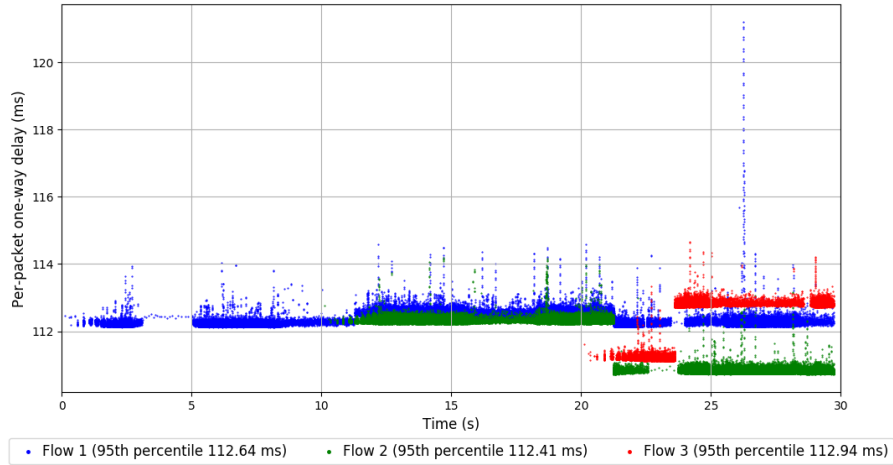
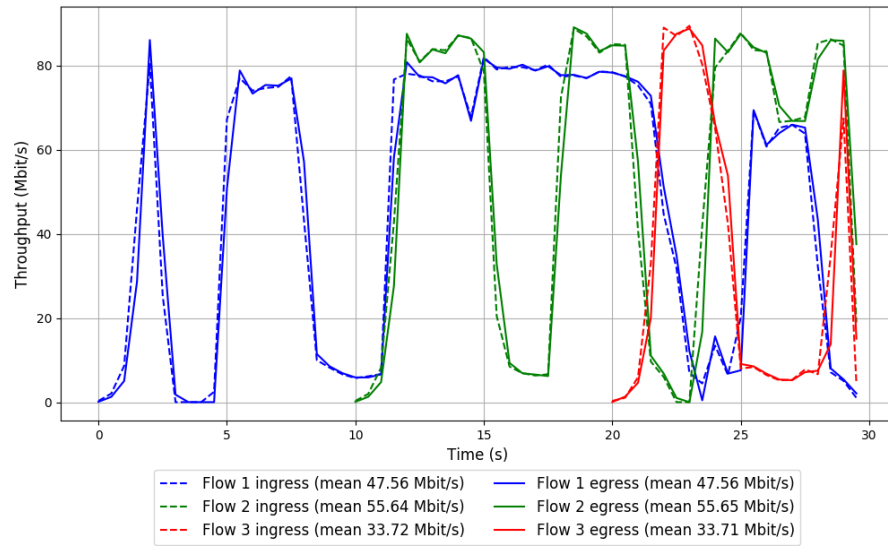
-- Flow 3:

Average throughput: 33.71 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 19:54:03

End at: 2017-11-16 19:54:34

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 112.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 112.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 109.733 ms

Loss rate: 0.00%

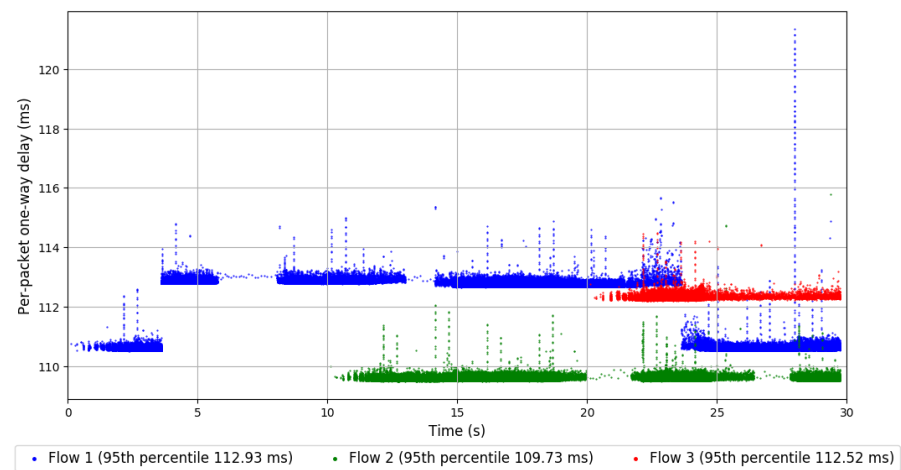
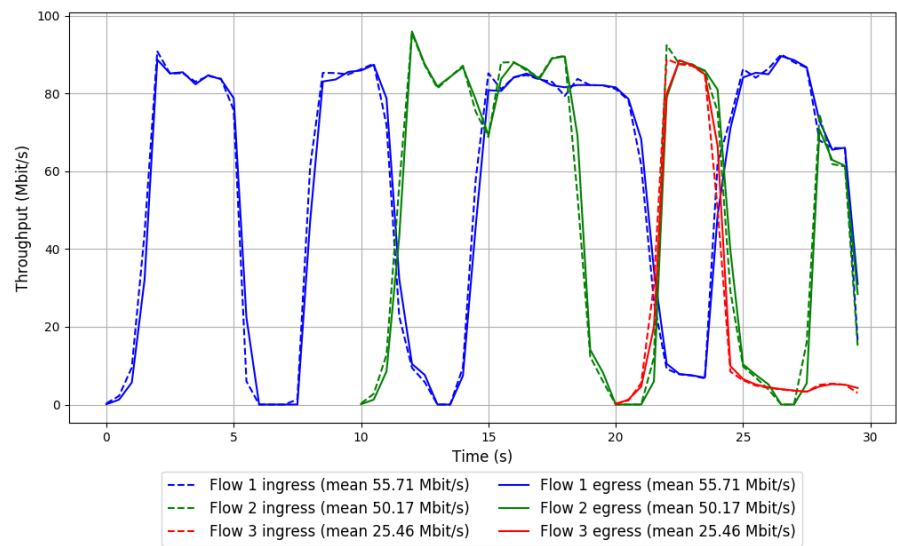
-- Flow 3:

Average throughput: 25.46 Mbit/s

95th percentile per-packet one-way delay: 112.516 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 20:07:17

End at: 2017-11-16 20:07:47

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.45 Mbit/s

95th percentile per-packet one-way delay: 112.765 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 112.795 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 48.71 Mbit/s

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

Loss rate: 0.01%

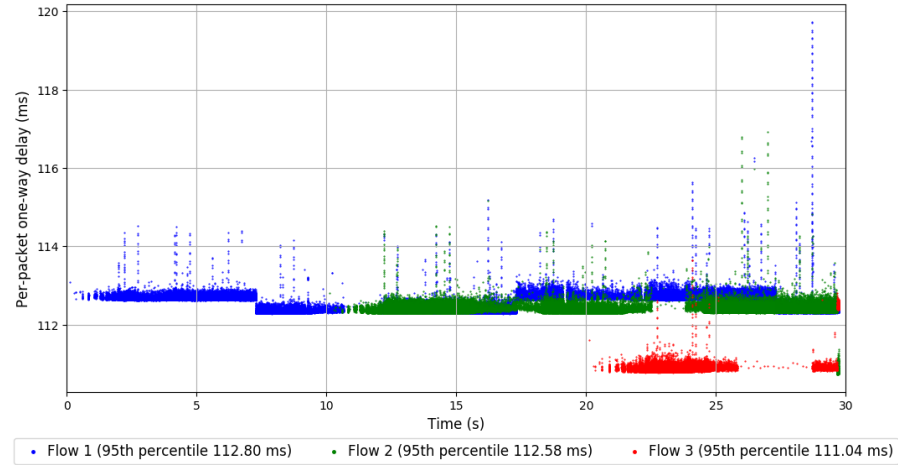
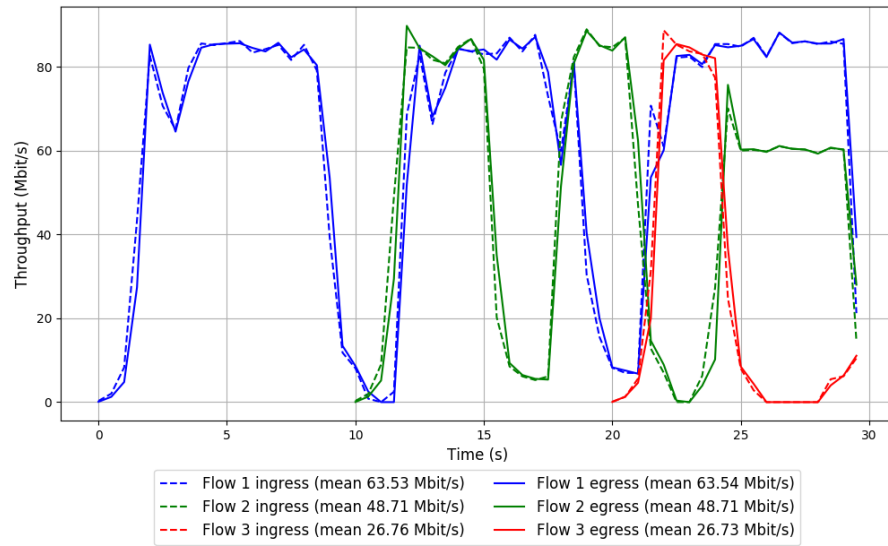
-- Flow 3:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 111.041 ms

Loss rate: 0.14%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 20:20:56

End at: 2017-11-16 20:21:26

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 50.07 Mbit/s

95th percentile per-packet one-way delay: 112.782 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.01 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 0.01%

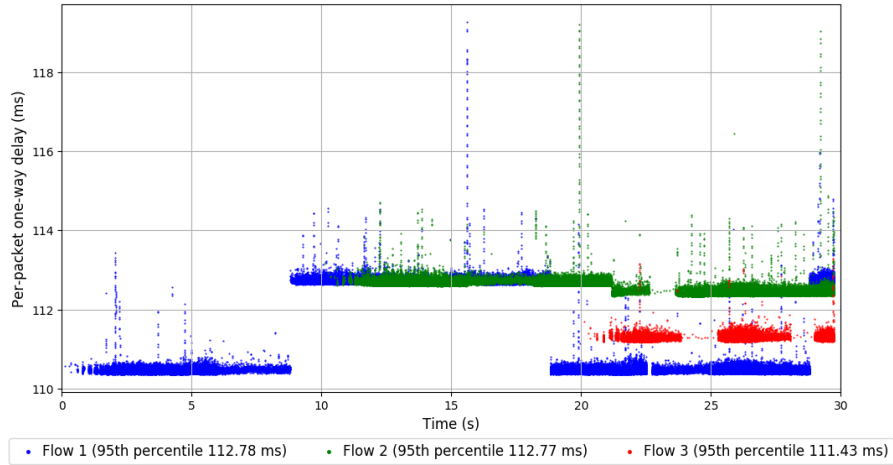
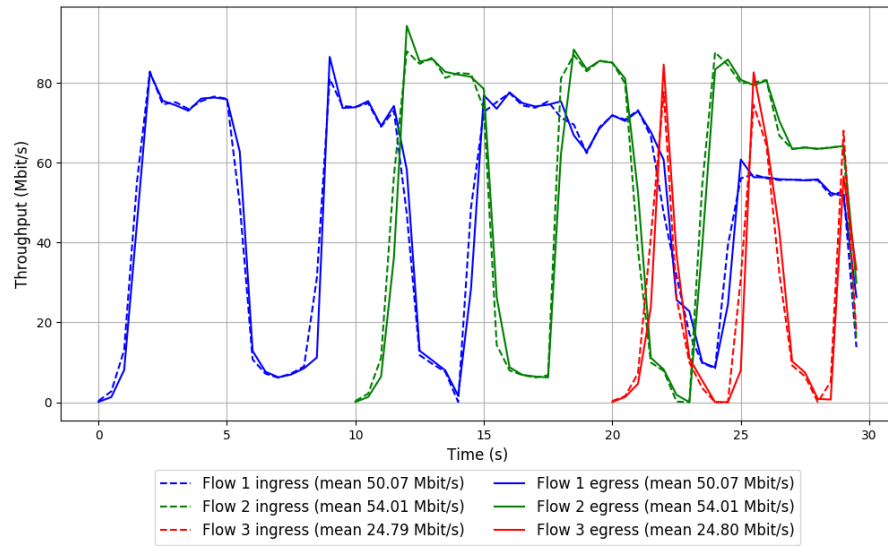
-- Flow 3:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 111.434 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

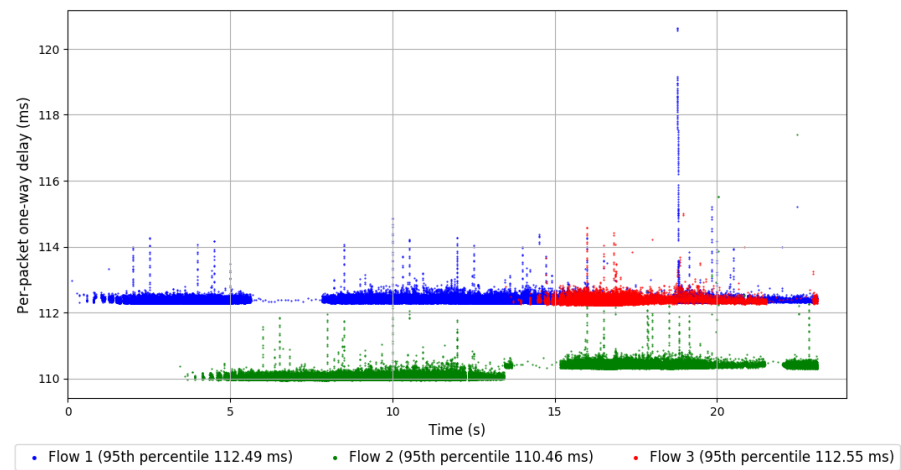
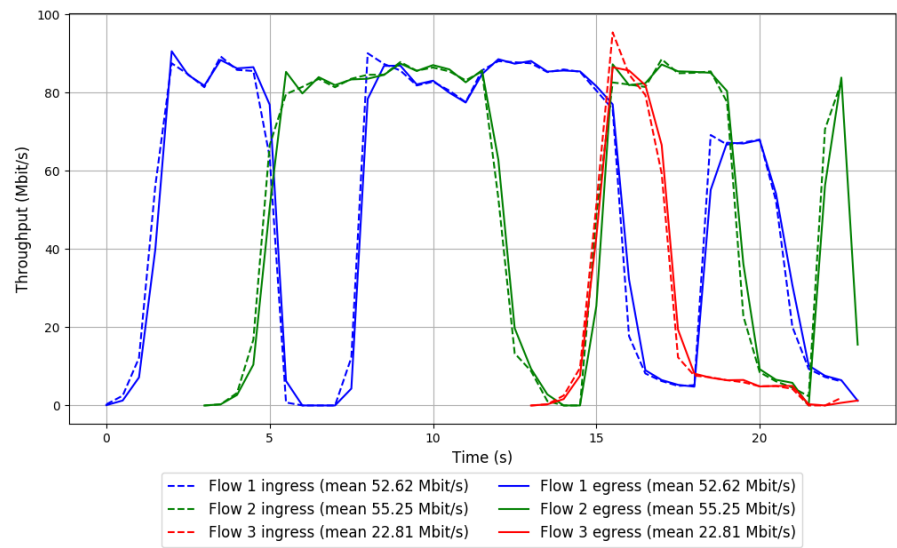


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 20:34:47

End at: 2017-11-16 20:35:17

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 20:48:18

End at: 2017-11-16 20:48:48

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 112.433 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.52 Mbit/s

95th percentile per-packet one-way delay: 112.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 109.451 ms

Loss rate: 0.00%

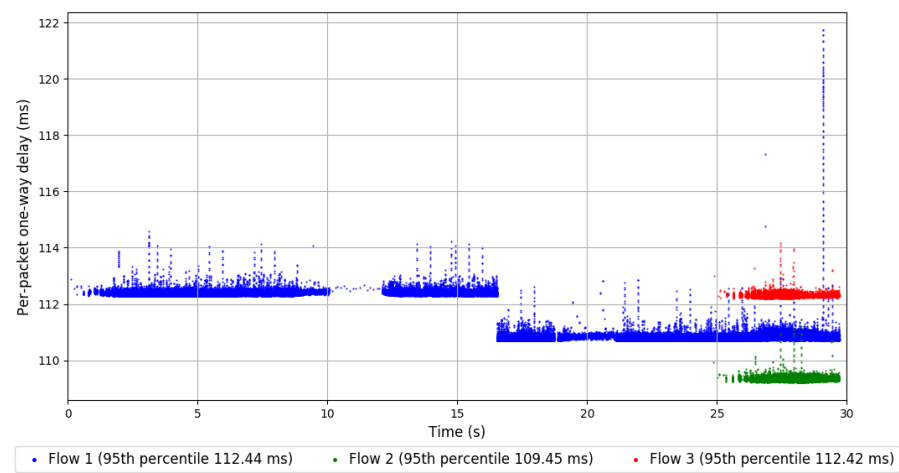
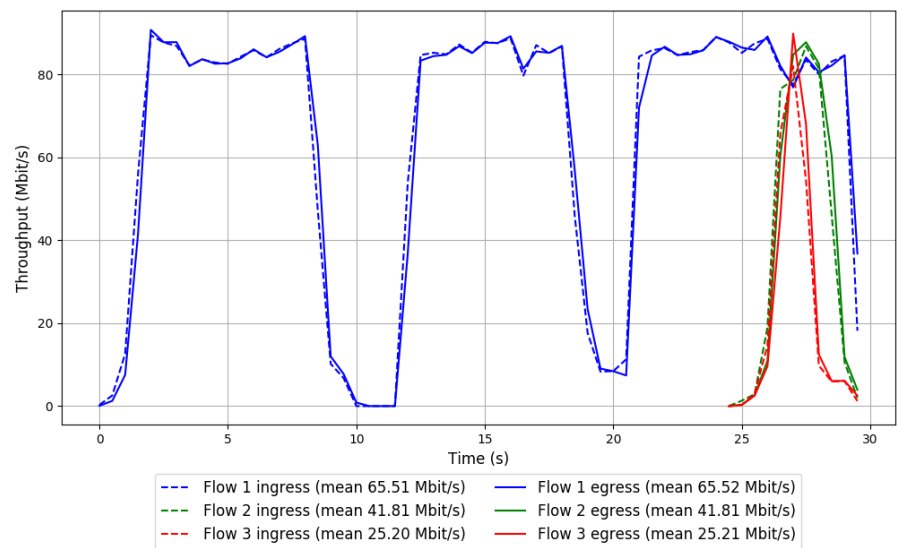
-- Flow 3:

Average throughput: 25.21 Mbit/s

95th percentile per-packet one-way delay: 112.421 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 21:01:28

End at: 2017-11-16 21:01:58

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 110.938 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 110.939 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 110.970 ms

Loss rate: 0.00%

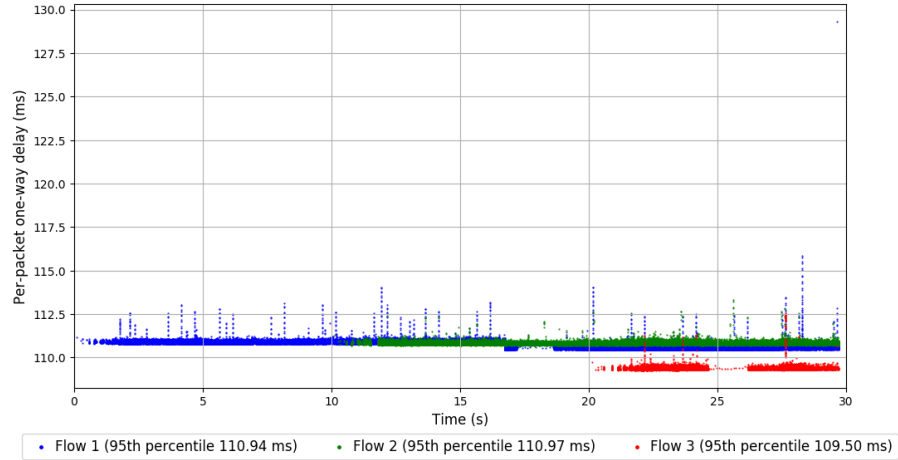
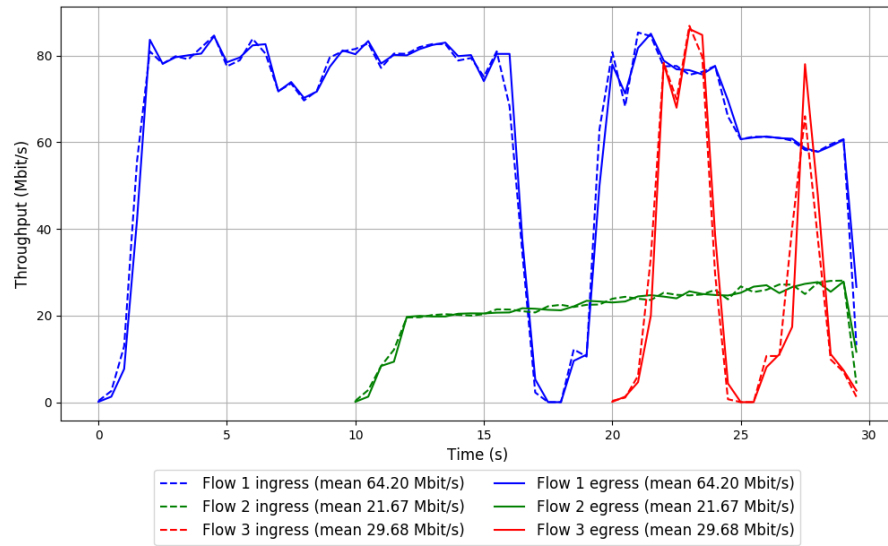
-- Flow 3:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 109.505 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 21:15:16

End at: 2017-11-16 21:15:46

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.08 Mbit/s

95th percentile per-packet one-way delay: 112.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.10 Mbit/s

95th percentile per-packet one-way delay: 112.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 112.276 ms

Loss rate: 0.00%

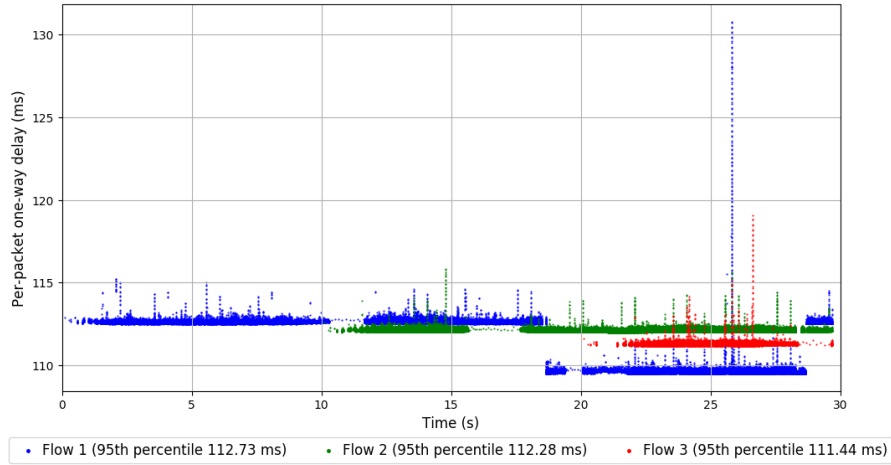
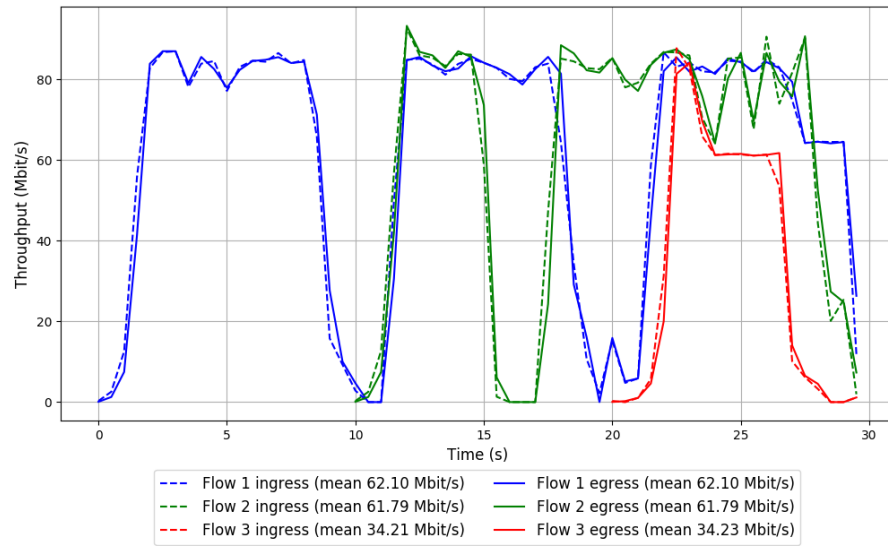
-- Flow 3:

Average throughput: 34.23 Mbit/s

95th percentile per-packet one-way delay: 111.439 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

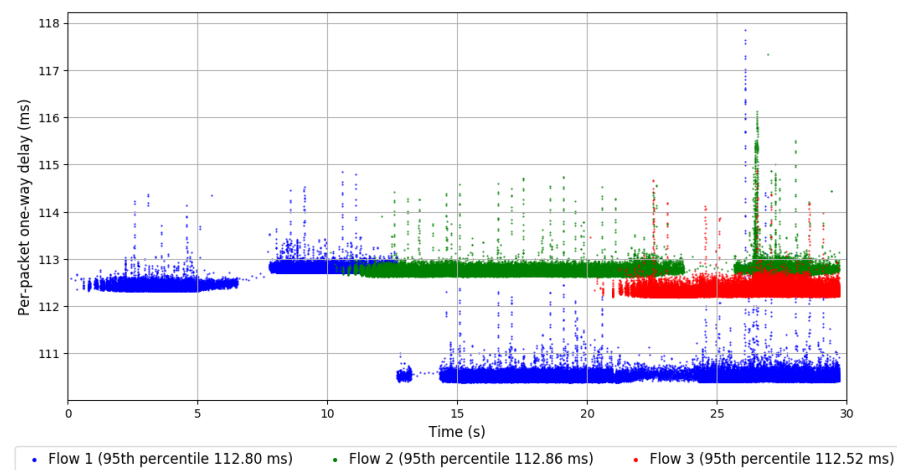
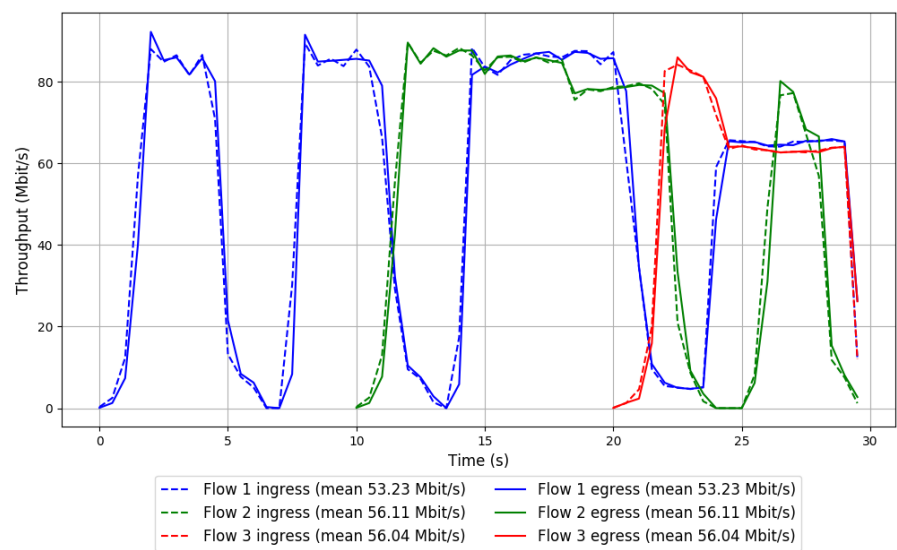


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 21:28:27
End at: 2017-11-16 21:28:57

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.51 Mbit/s
95th percentile per-packet one-way delay: 112.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 112.800 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 112.856 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 112.515 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

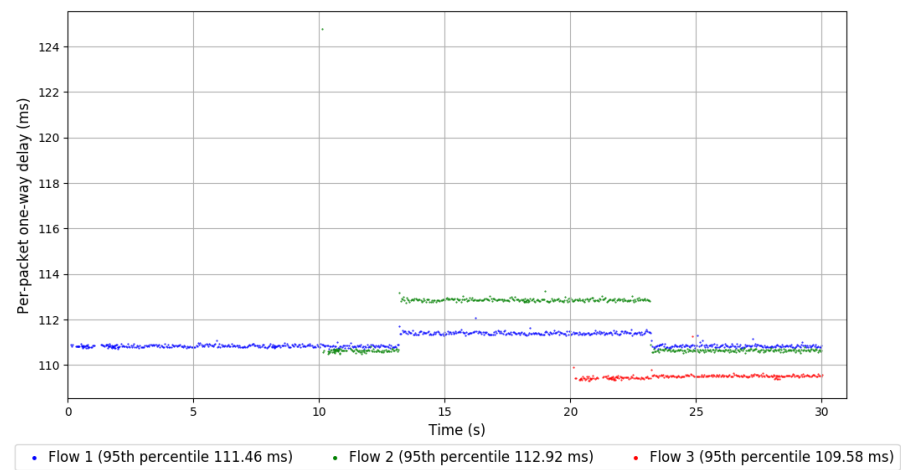
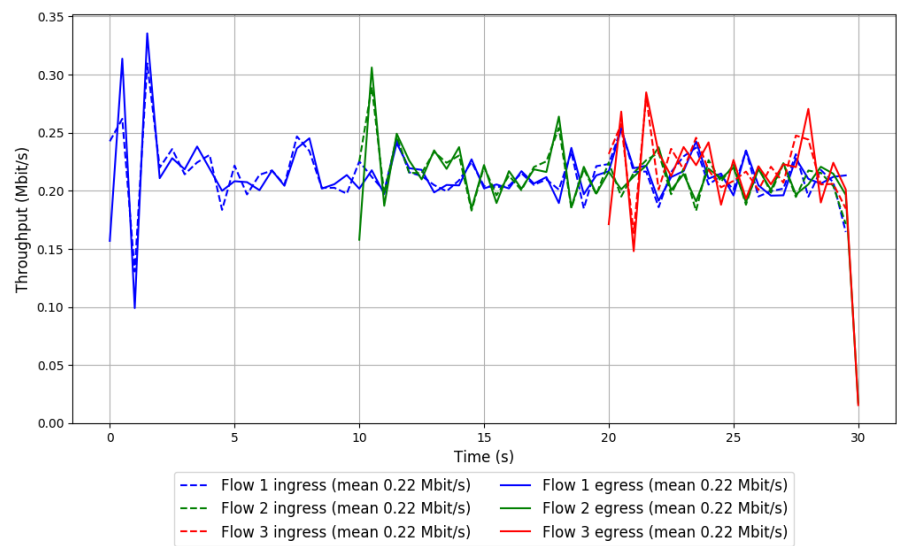


```
Run 1: Statistics of SCReAM

Start at: 2017-11-16 19:31:32
End at: 2017-11-16 19:32:02

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.577 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

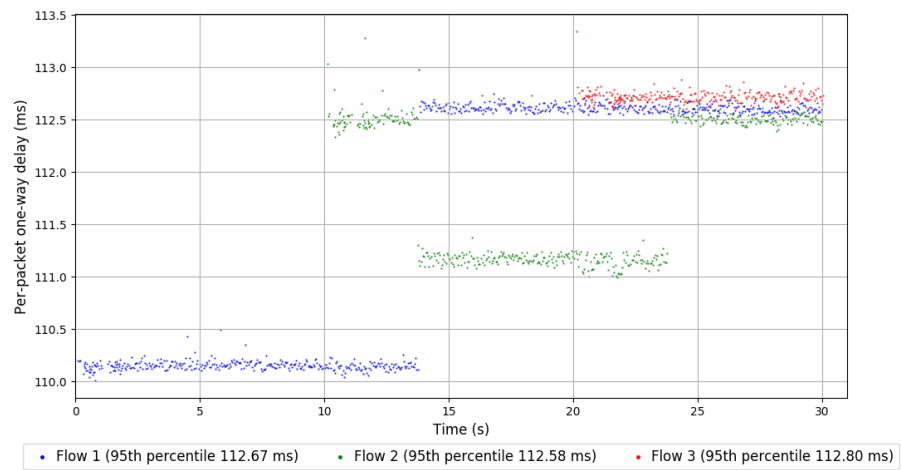
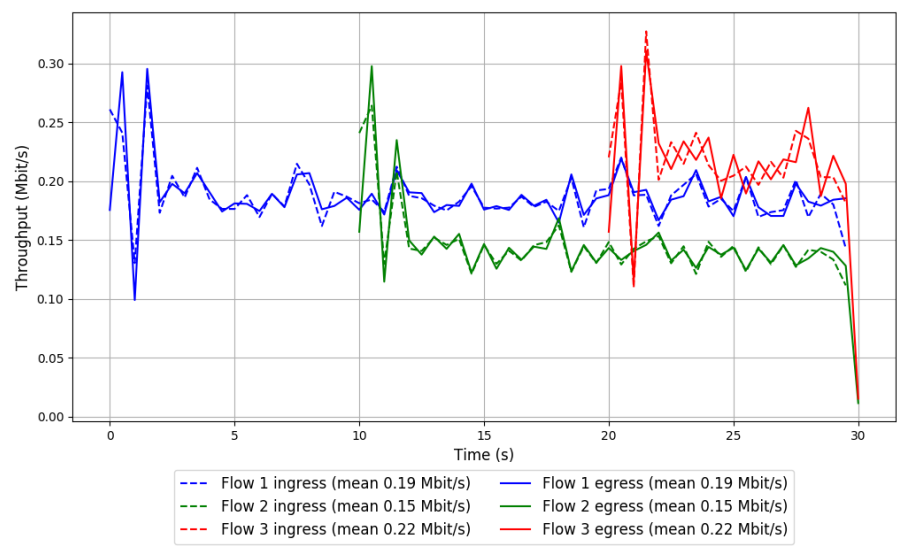


```
Run 2: Statistics of SCReAM

Start at: 2017-11-16 19:44:44
End at: 2017-11-16 19:45:14

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 112.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 112.585 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.803 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-16 19:58:32

End at: 2017-11-16 19:59:02

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.950 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.979 ms

Loss rate: 0.00%

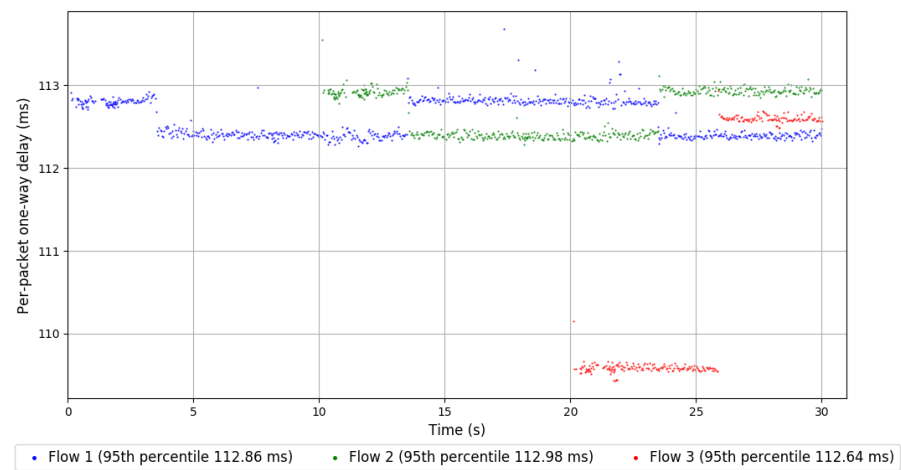
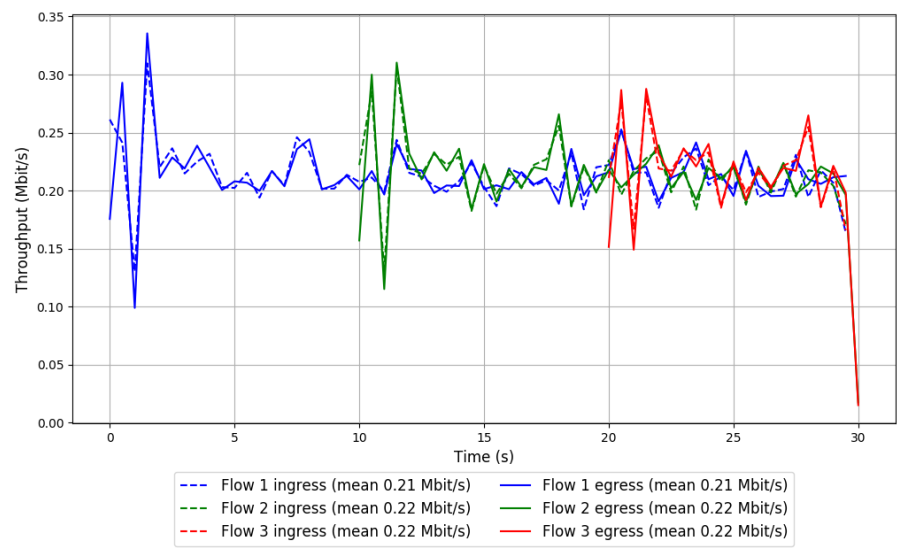
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

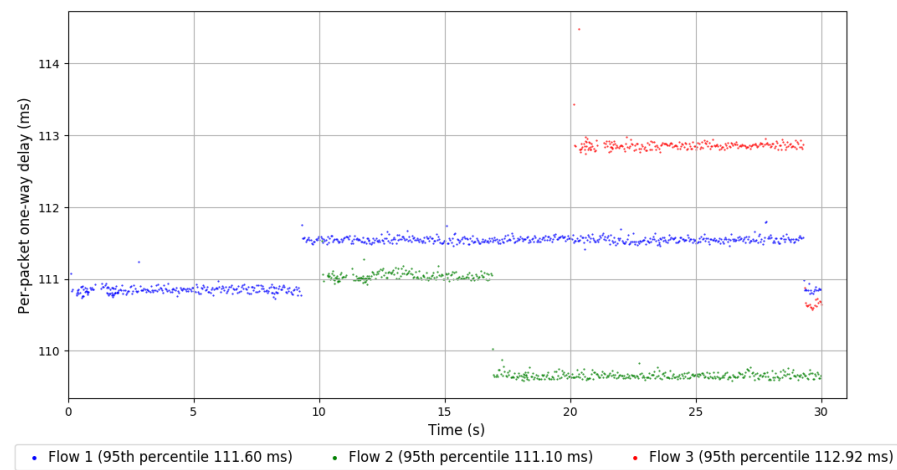
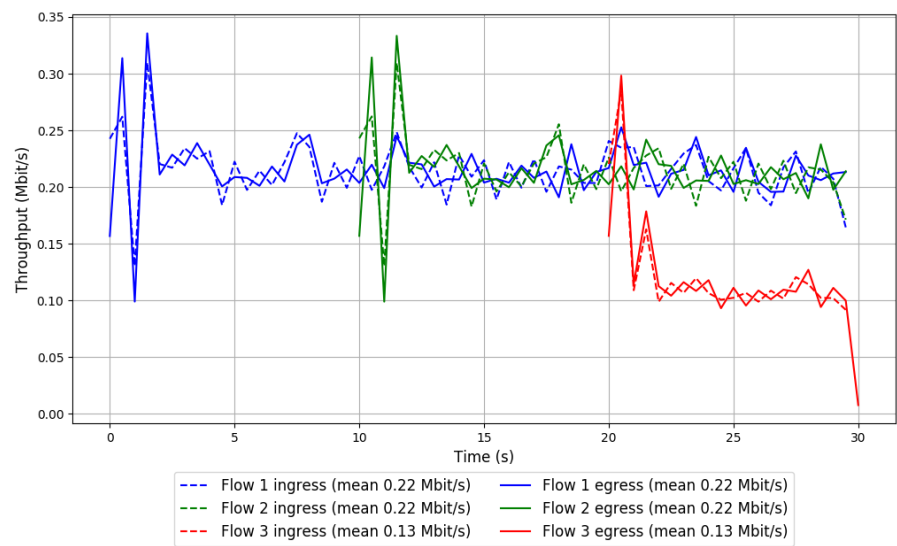


```
Run 4: Statistics of SReAM

Start at: 2017-11-16 20:11:48
End at: 2017-11-16 20:12:18

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.877 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.604 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.096 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 112.923 ms
Loss rate: 0.00%
```

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-16 20:25:28

End at: 2017-11-16 20:25:58

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.003 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.022 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.910 ms

Loss rate: 0.00%

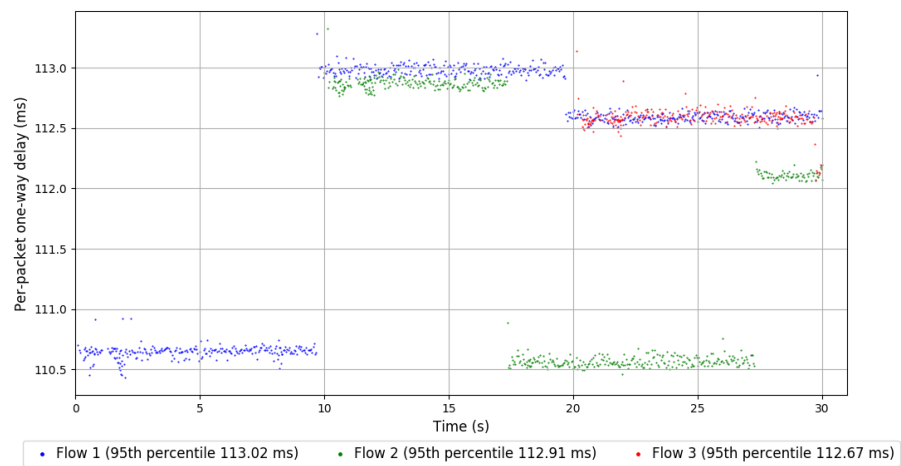
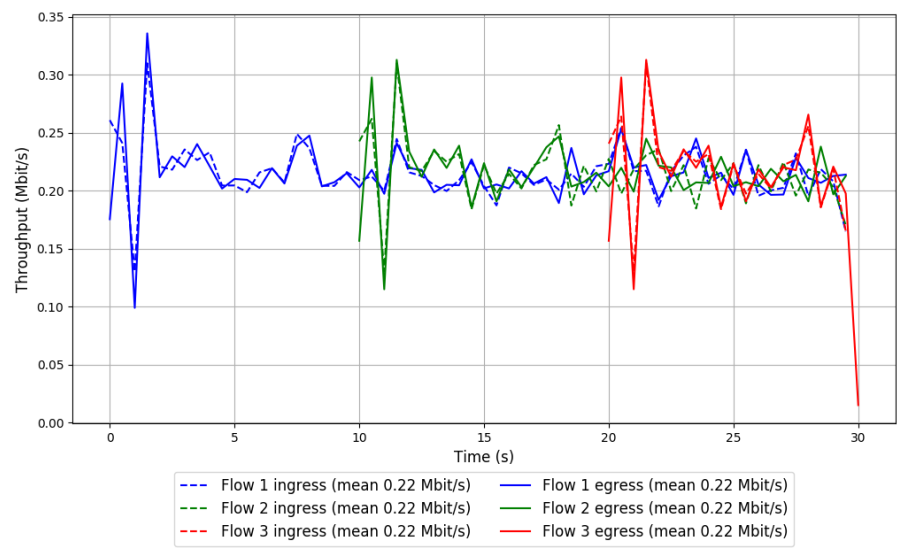
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.675 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-16 20:39:17

End at: 2017-11-16 20:39:47

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 112.597 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.500 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 112.533 ms

Loss rate: 0.00%

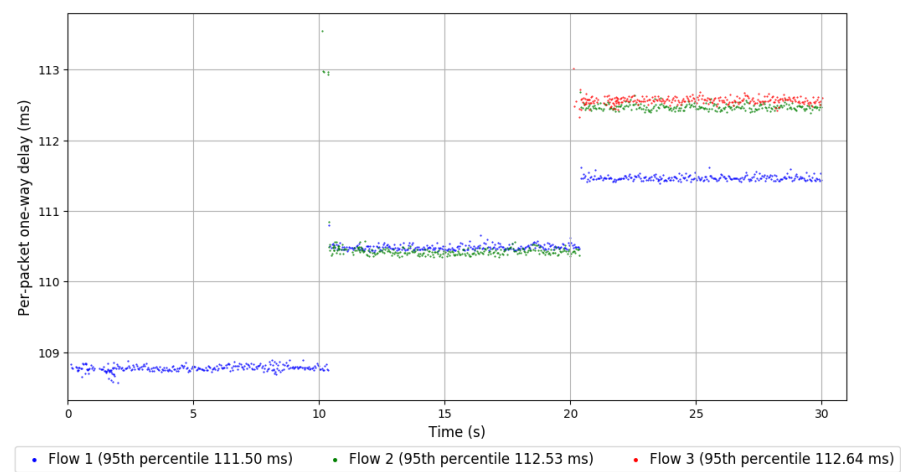
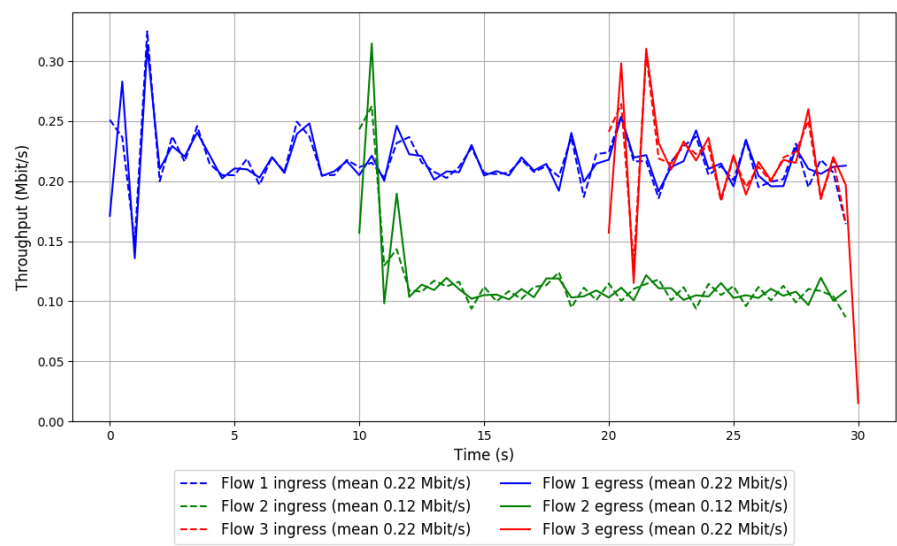
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.635 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

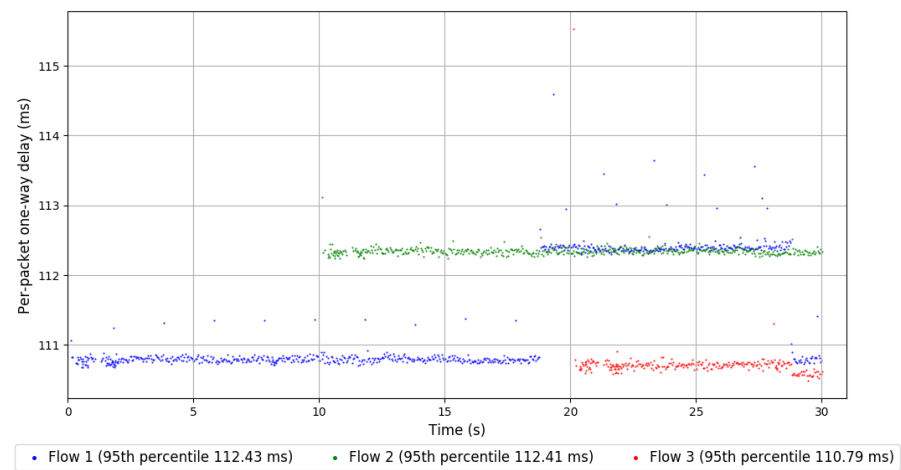
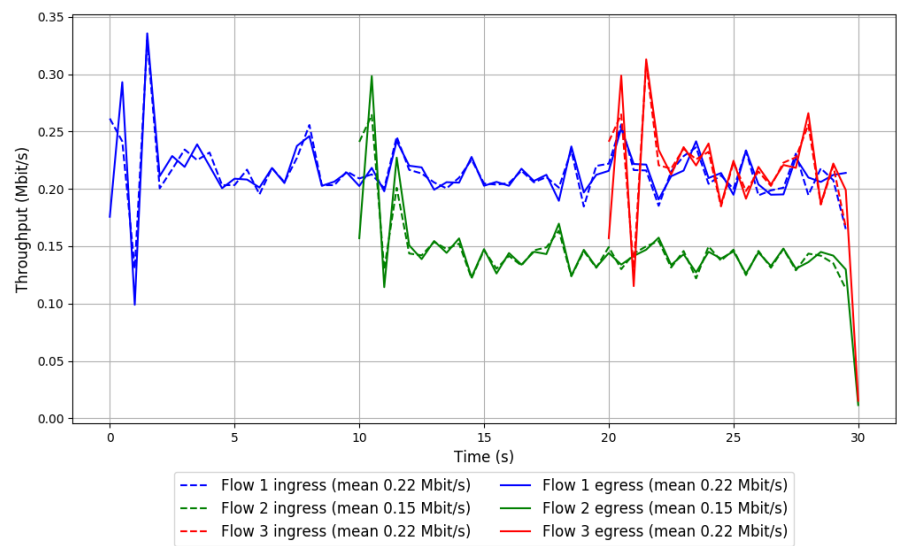


```
Run 7: Statistics of SReAM

Start at: 2017-11-16 20:52:49
End at: 2017-11-16 20:53:19

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 112.416 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.428 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 112.409 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.786 ms
Loss rate: 0.00%
```


Run 7: Report of SCSReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-16 21:05:59

End at: 2017-11-16 21:06:29

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.987 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.022 ms

Loss rate: 0.00%

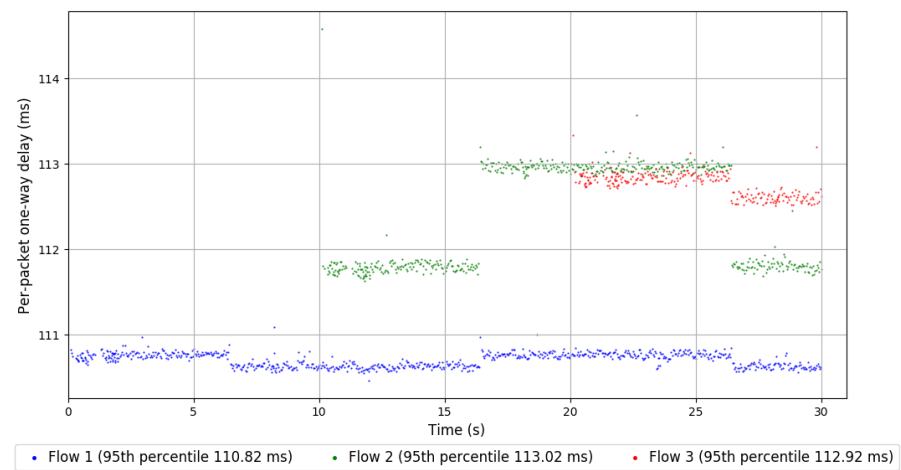
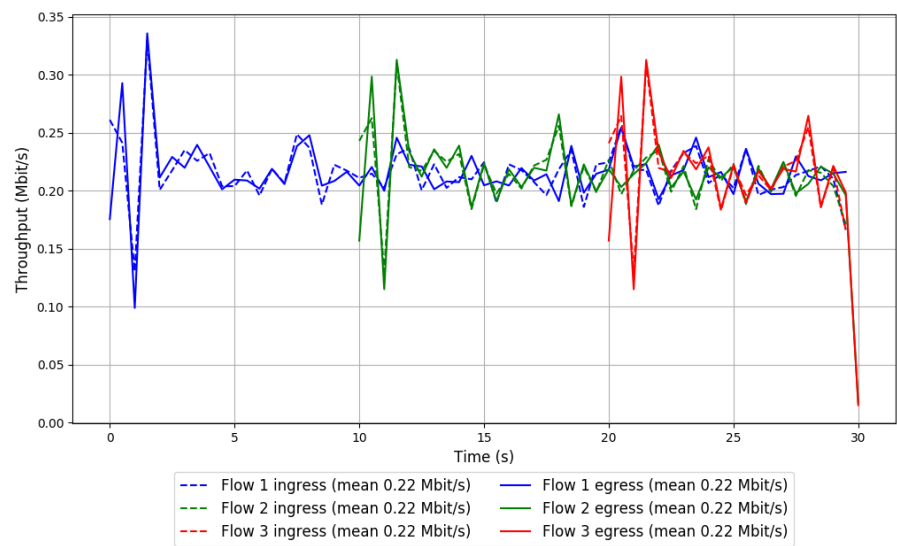
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-16 21:19:49

End at: 2017-11-16 21:20:19

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 112.665 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 112.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.695 ms

Loss rate: 0.00%

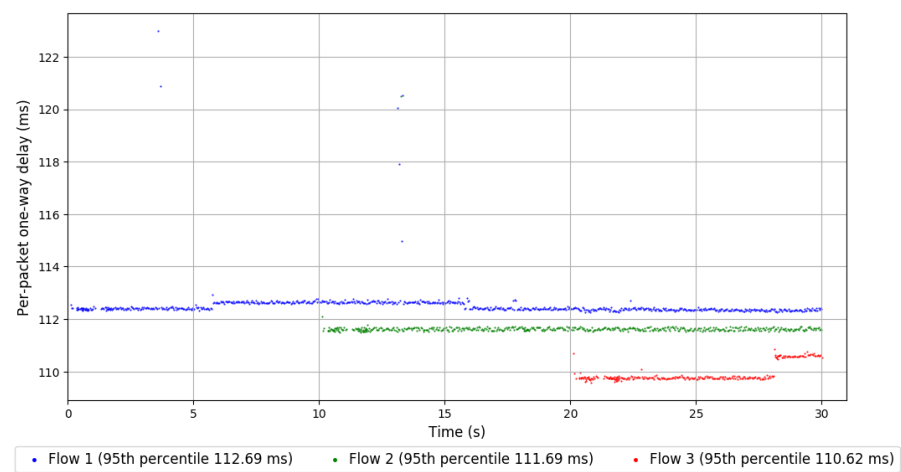
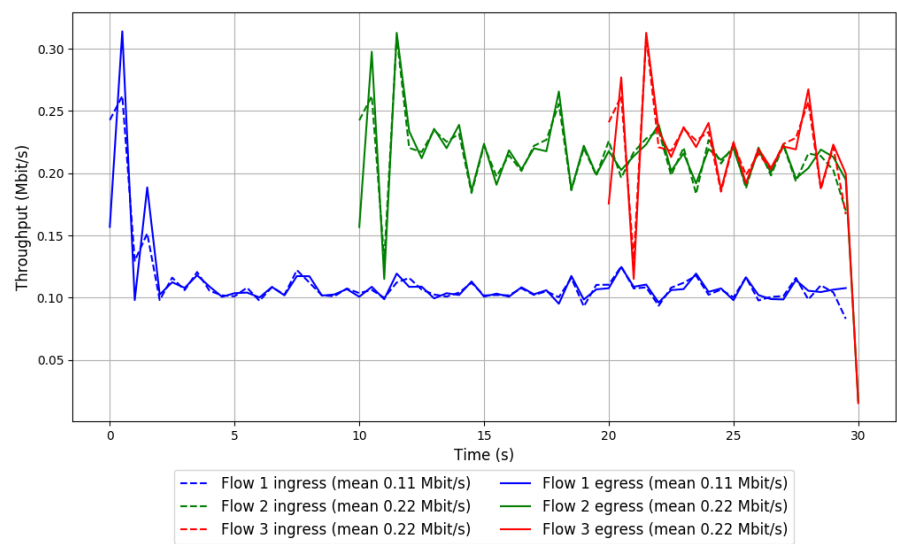
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.618 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

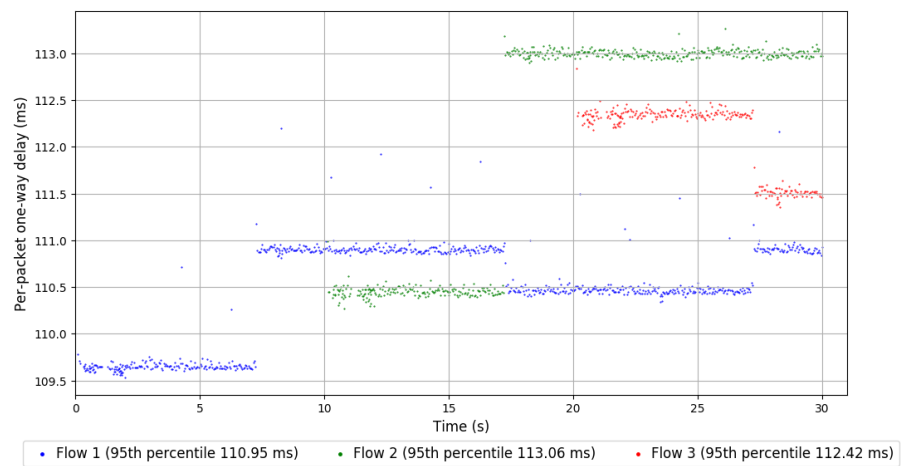
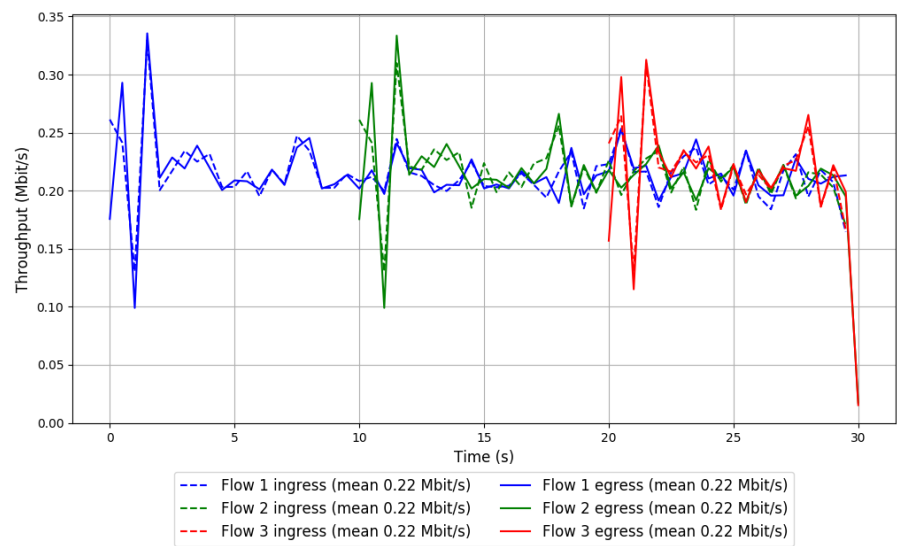


```
Run 10: Statistics of SCReAM

Start at: 2017-11-16 21:33:00
End at: 2017-11-16 21:33:30

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 113.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.953 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.057 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.419 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

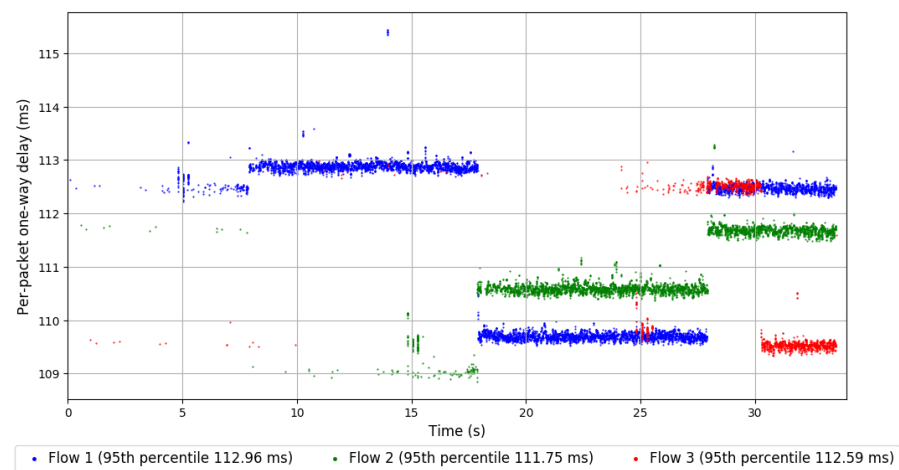
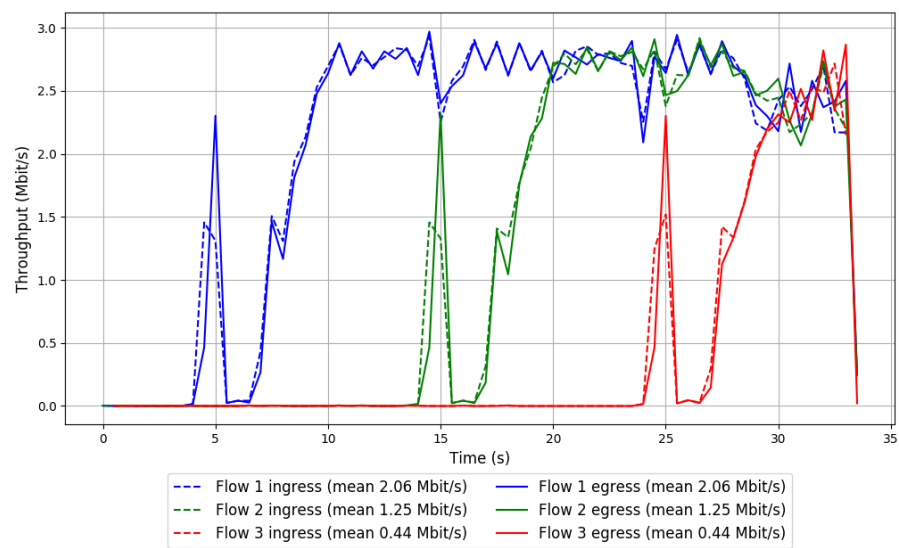


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-16 19:35:51
End at: 2017-11-16 19:36:21

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 112.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 112.962 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 111.753 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 112.591 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 19:49:02

End at: 2017-11-16 19:49:32

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 112.840 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 109.094 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 112.899 ms

Loss rate: 0.00%

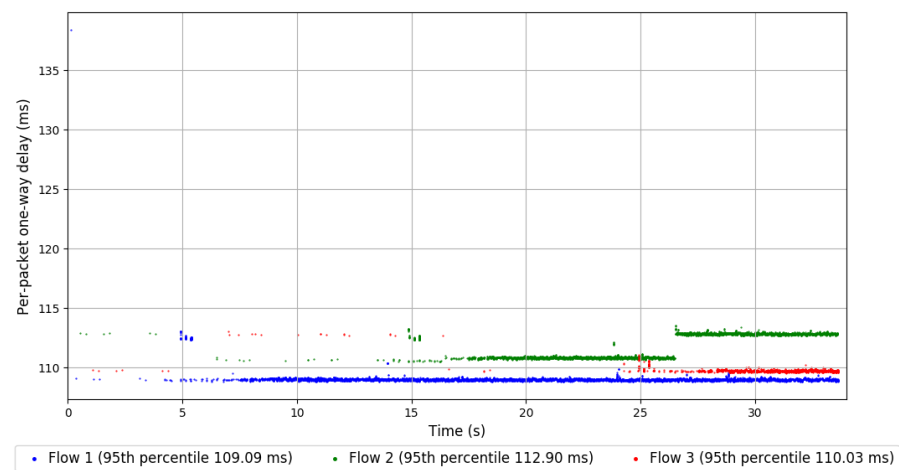
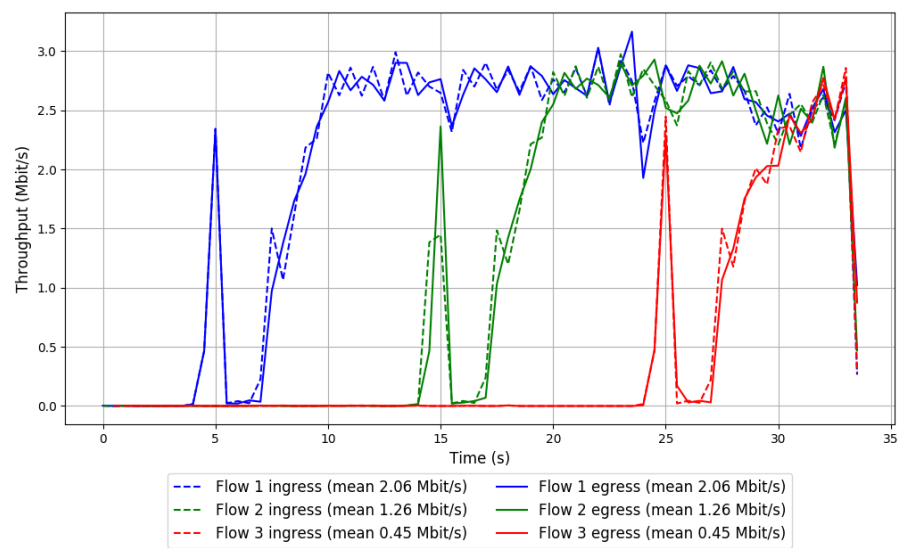
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 110.025 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 20:02:52

End at: 2017-11-16 20:03:22

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 113.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 113.024 ms

Loss rate: 0.00%

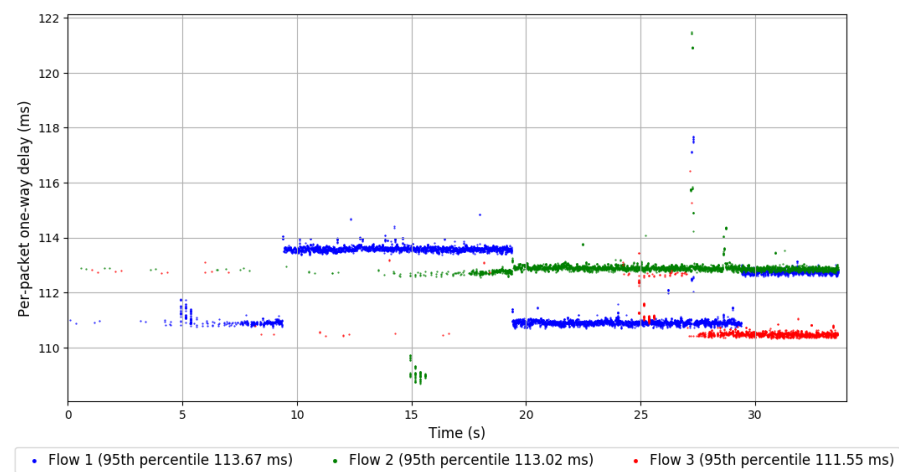
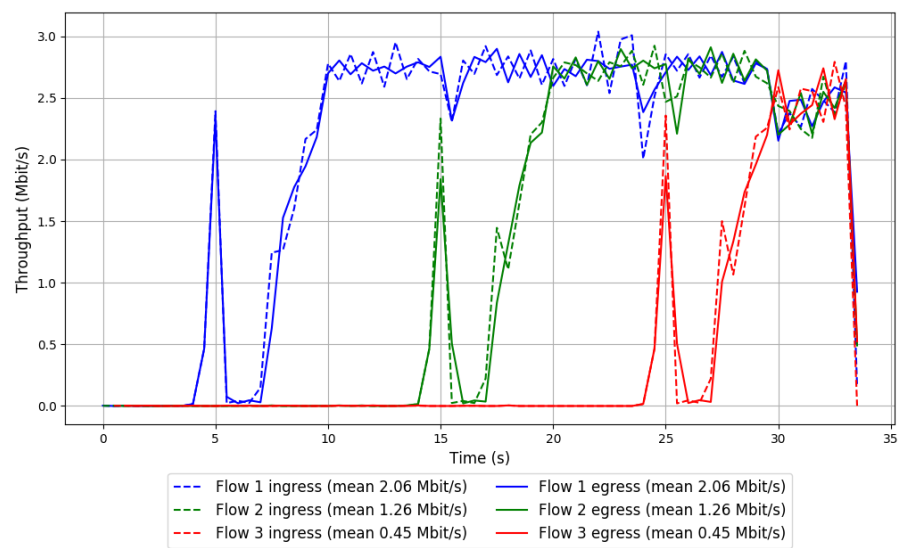
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 111.547 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-16 20:16:09

End at: 2017-11-16 20:16:39

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 112.584 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.04 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 112.470 ms

Loss rate: 0.00%

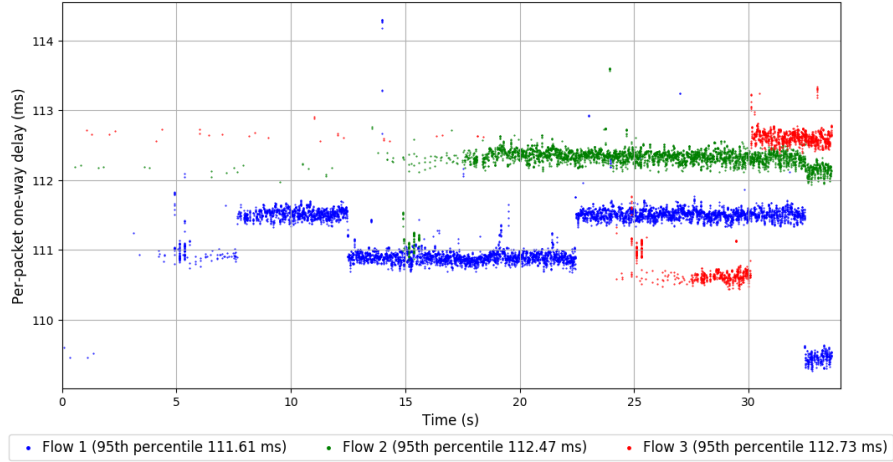
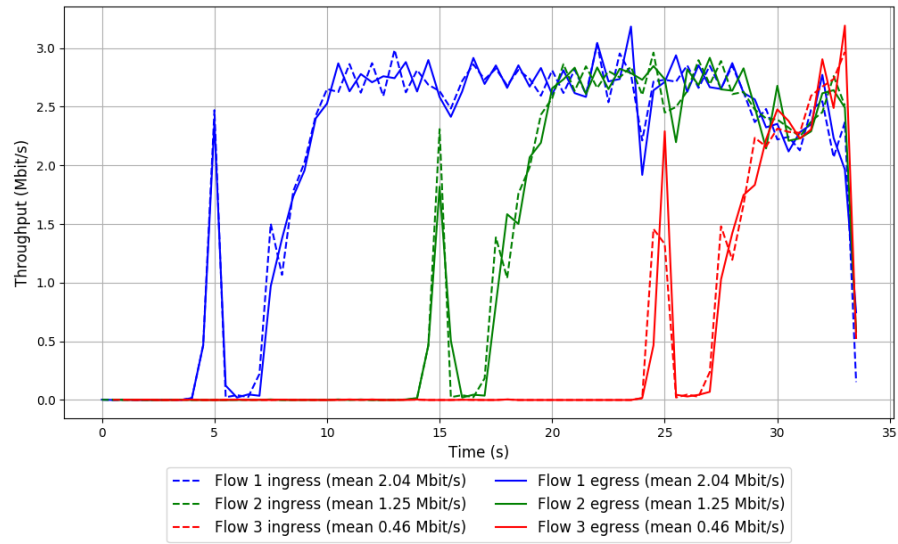
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 112.727 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 20:29:49

End at: 2017-11-16 20:30:19

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 112.765 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 112.553 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 112.794 ms

Loss rate: 0.00%

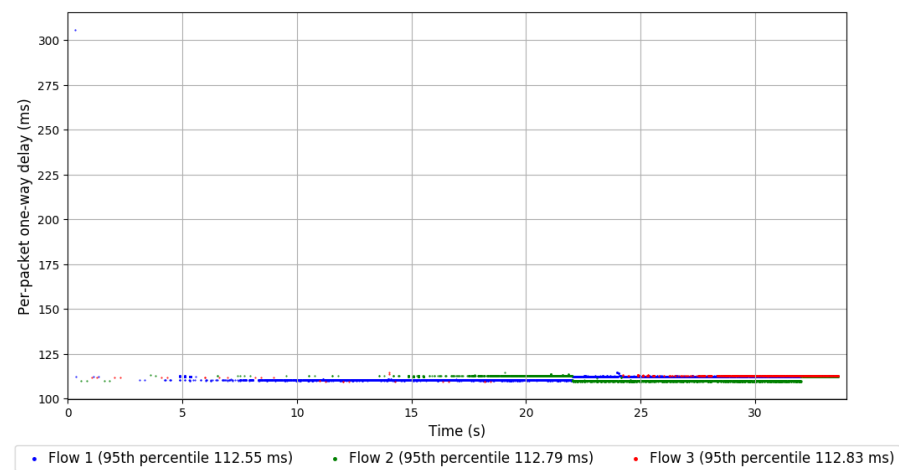
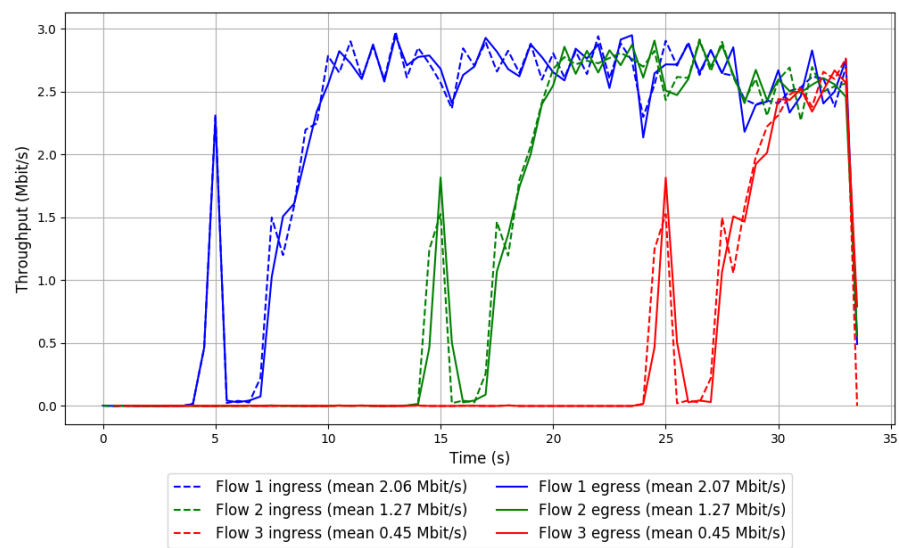
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 112.833 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-16 20:43:40

End at: 2017-11-16 20:44:10

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 113.001 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 111.073 ms

Loss rate: 0.00%

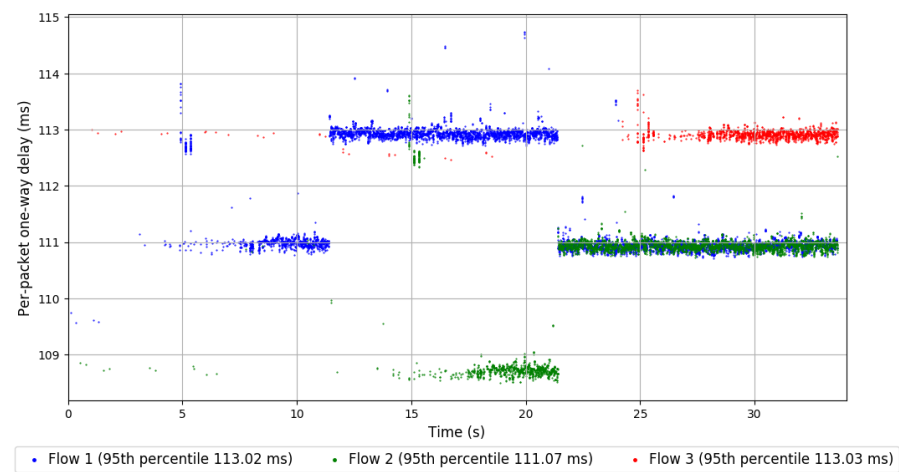
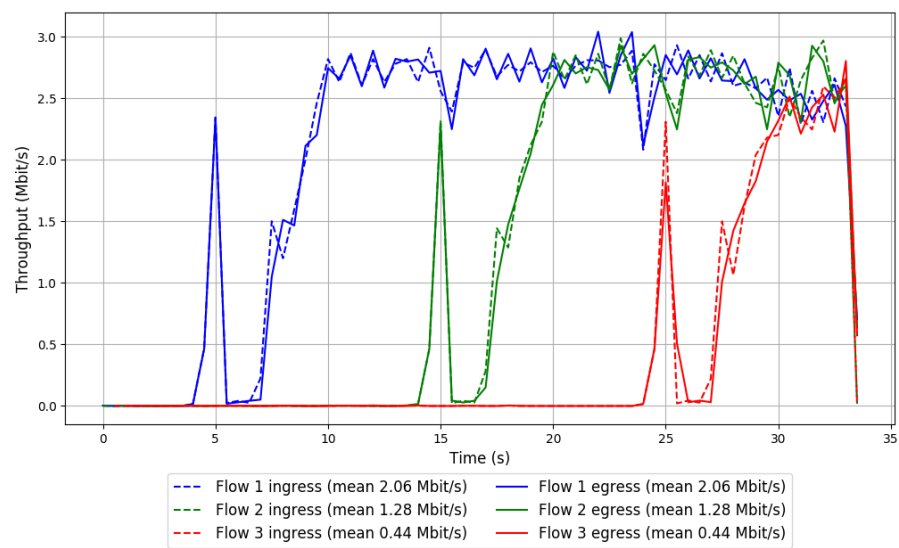
-- Flow 3:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.06%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 20:57:09

End at: 2017-11-16 20:57:39

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 112.532 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 110.934 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

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

Loss rate: 0.00%

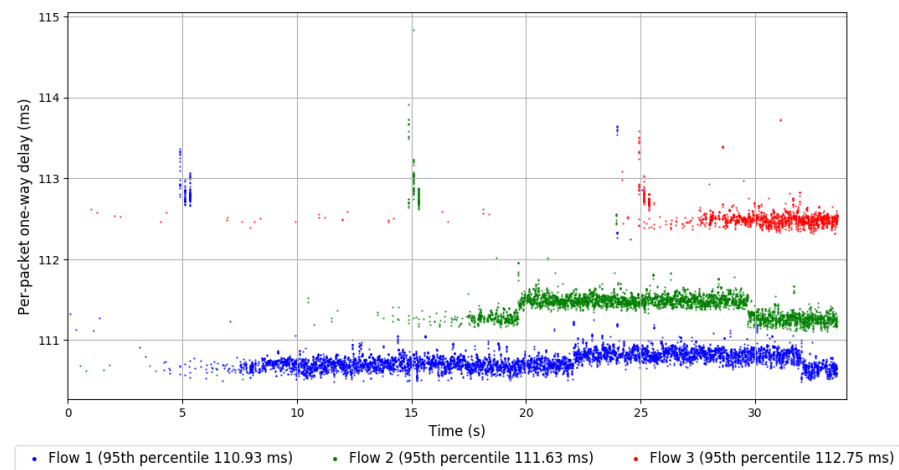
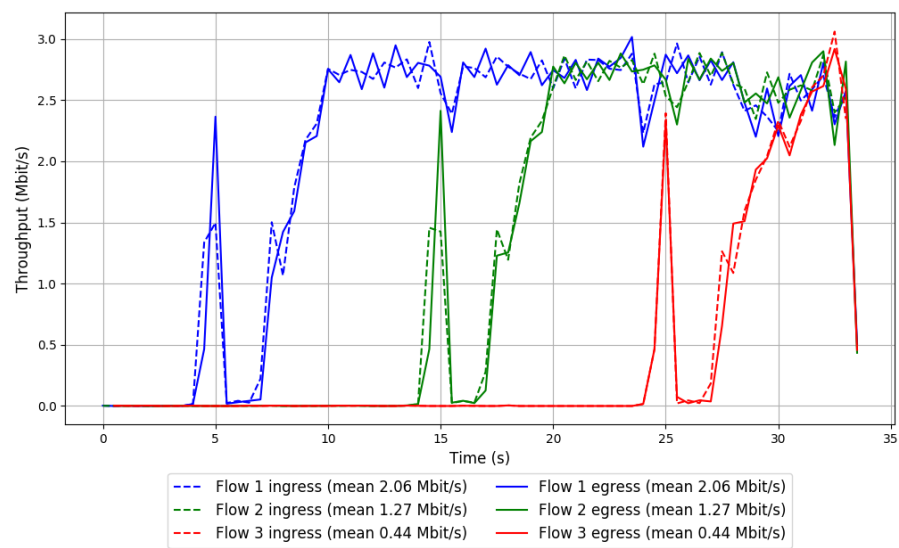
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 112.747 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 21:10:18

End at: 2017-11-16 21:10:48

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 112.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 110.722 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 112.919 ms

Loss rate: 0.00%

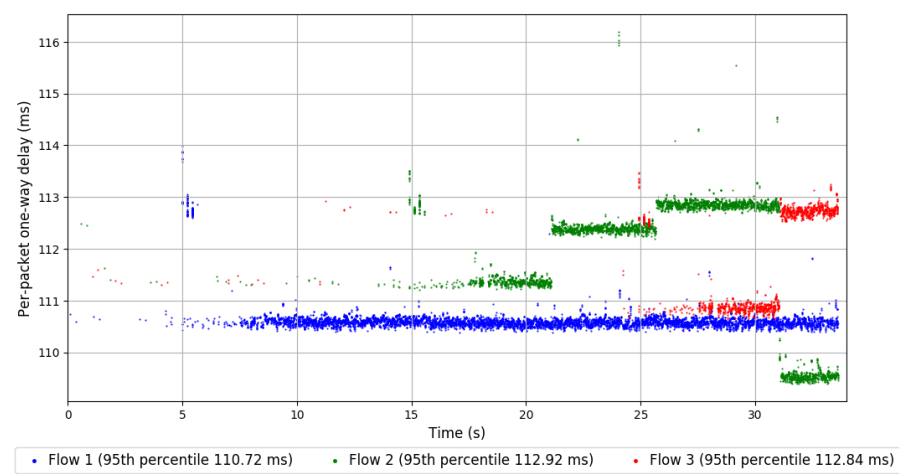
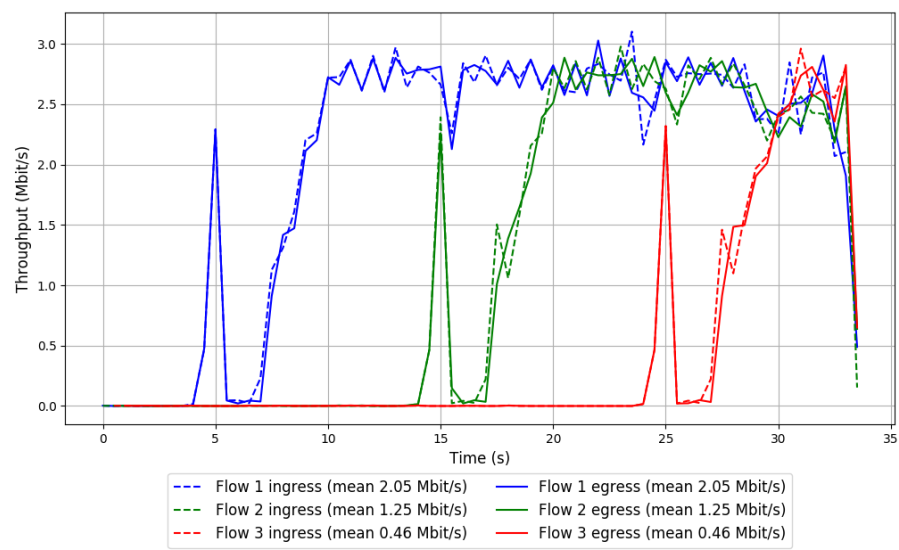
-- Flow 3:

Average throughput: 0.46 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 21:24:09

End at: 2017-11-16 21:24:39

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 112.686 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 112.706 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 112.353 ms

Loss rate: 0.00%

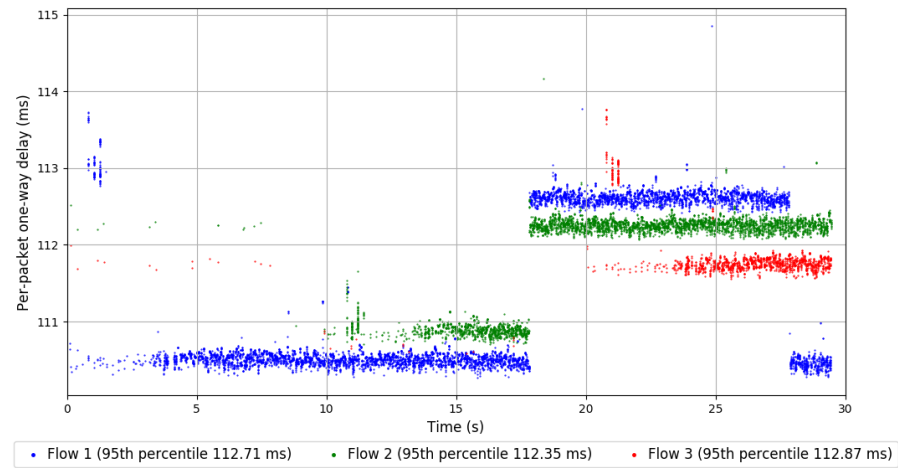
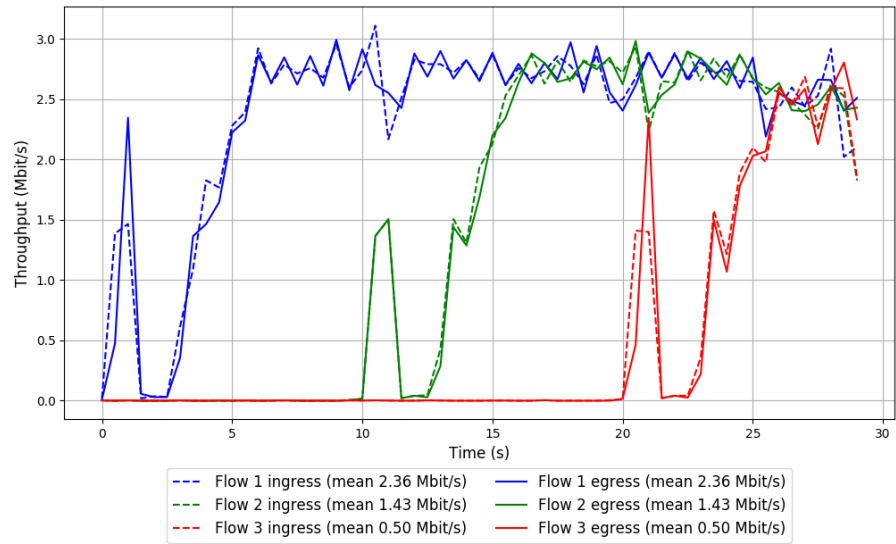
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 112.873 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 21:37:19

End at: 2017-11-16 21:37:49

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 112.888 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 111.633 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

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

Loss rate: 0.00%

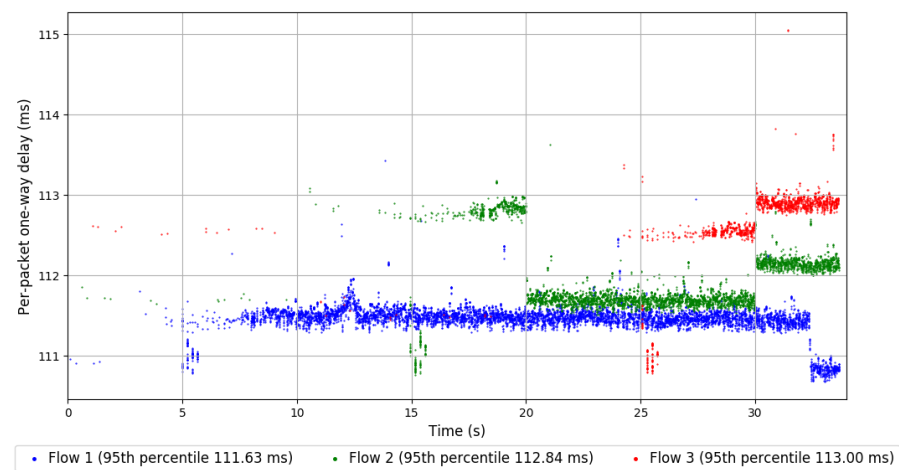
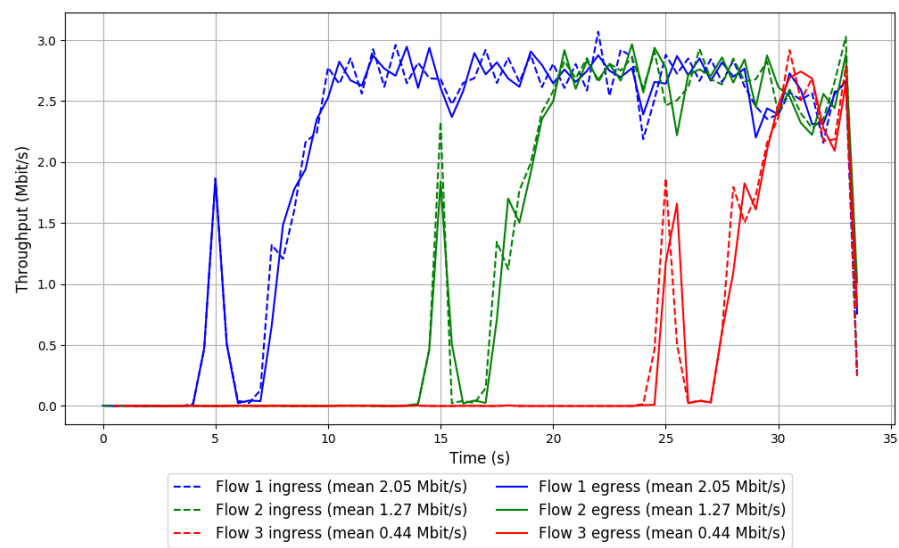
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 113.002 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-16 19:34:09

End at: 2017-11-16 19:34:39

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 112.981 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 113.011 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 3.43 Mbit/s

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

Loss rate: 0.00%

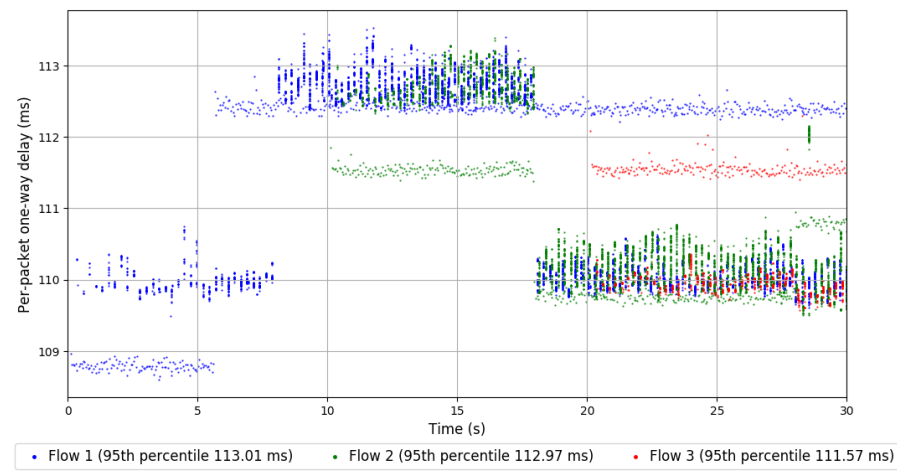
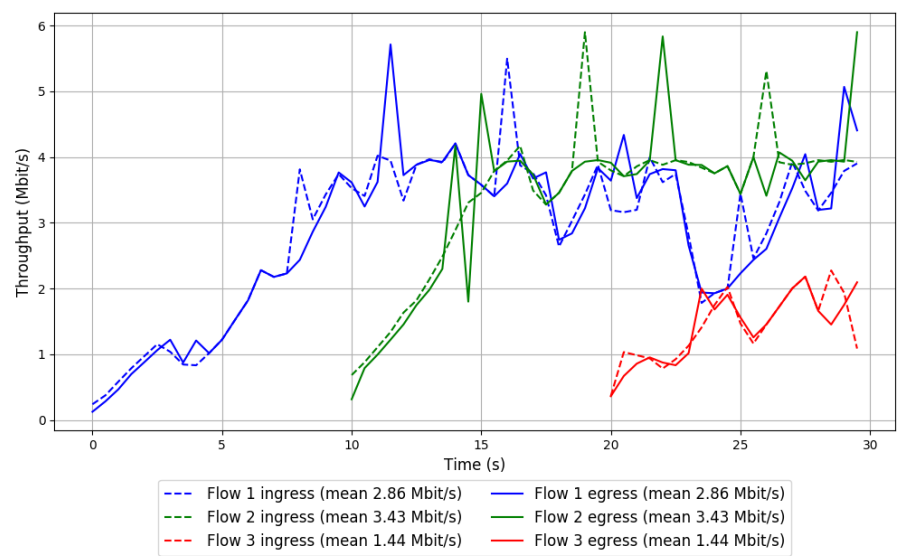
-- Flow 3:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 111.570 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-16 19:47:21

End at: 2017-11-16 19:47:51

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 110.342 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 110.160 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 109.647 ms

Loss rate: 0.25%

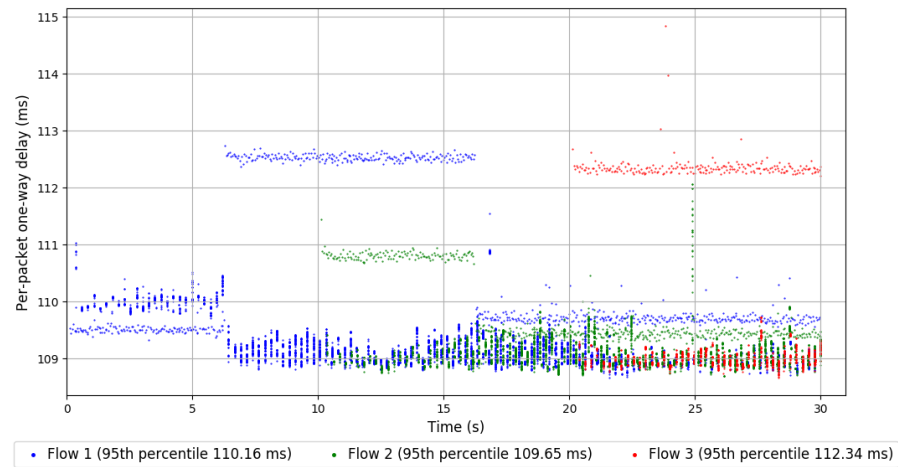
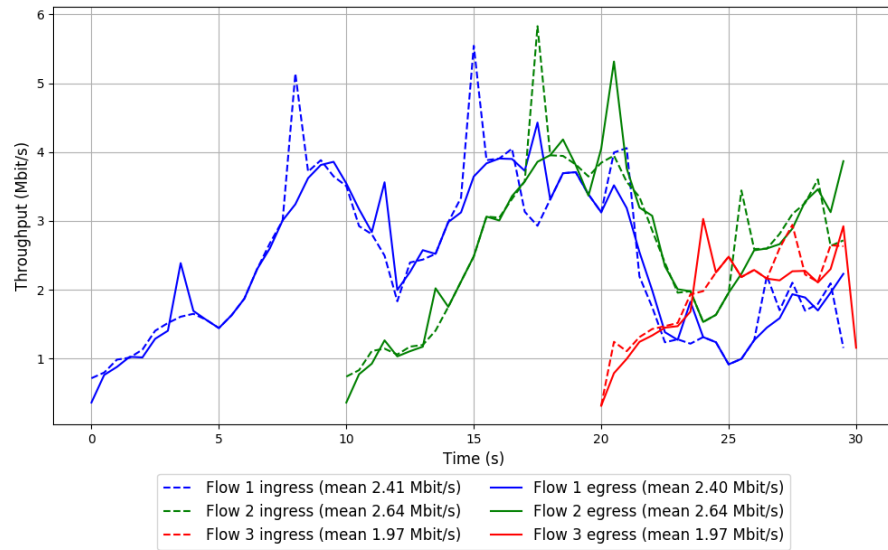
-- Flow 3:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 112.345 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-16 20:01:11

End at: 2017-11-16 20:01:41

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 112.016 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 112.893 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 111.714 ms

Loss rate: 0.07%

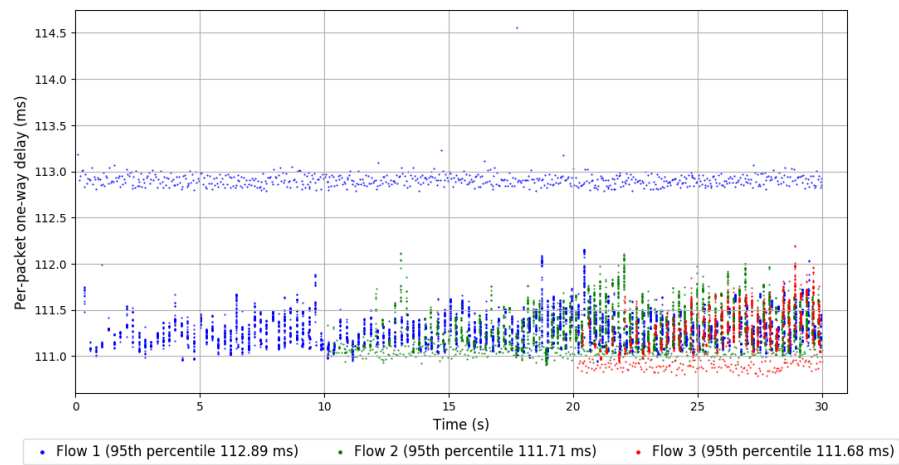
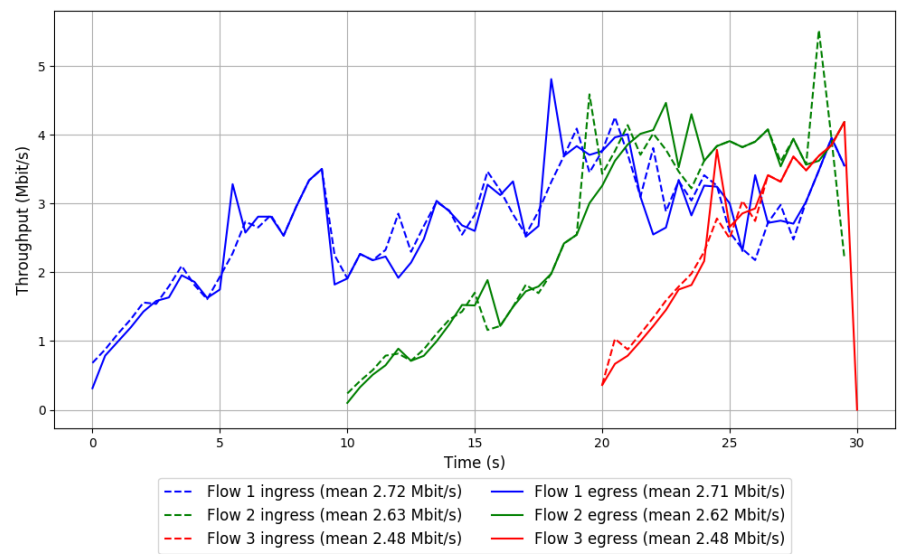
-- Flow 3:

Average throughput: 2.48 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 20:14:28

End at: 2017-11-16 20:14:58

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 112.768 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 112.845 ms

Loss rate: 0.04%

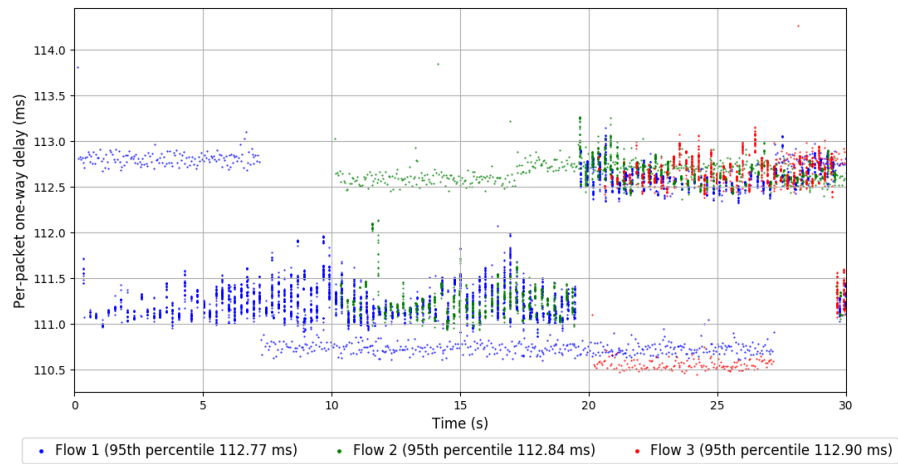
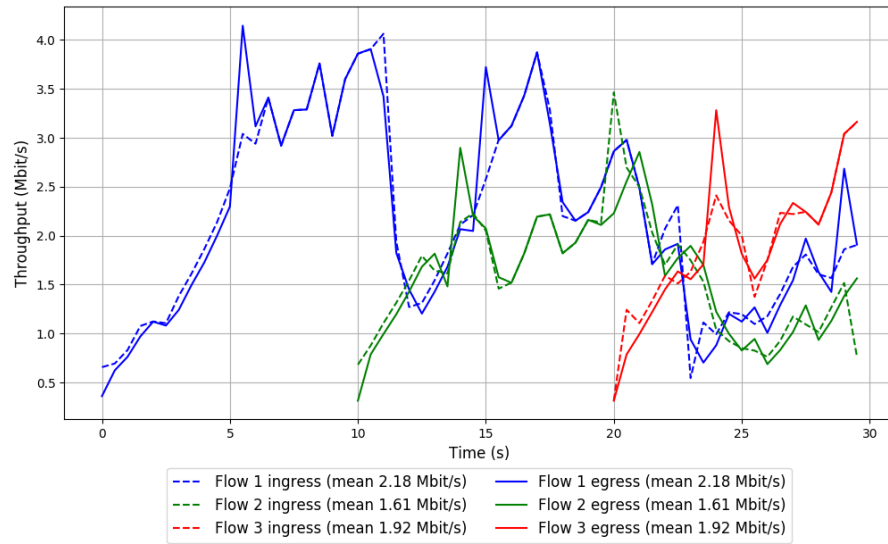
-- Flow 3:

Average throughput: 1.92 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-16 20:28:08

End at: 2017-11-16 20:28:38

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 113.082 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 112.993 ms

Loss rate: 0.14%

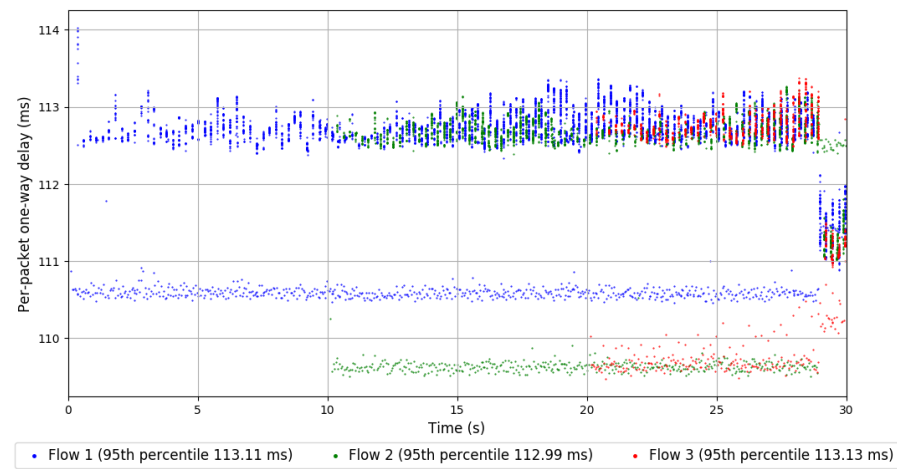
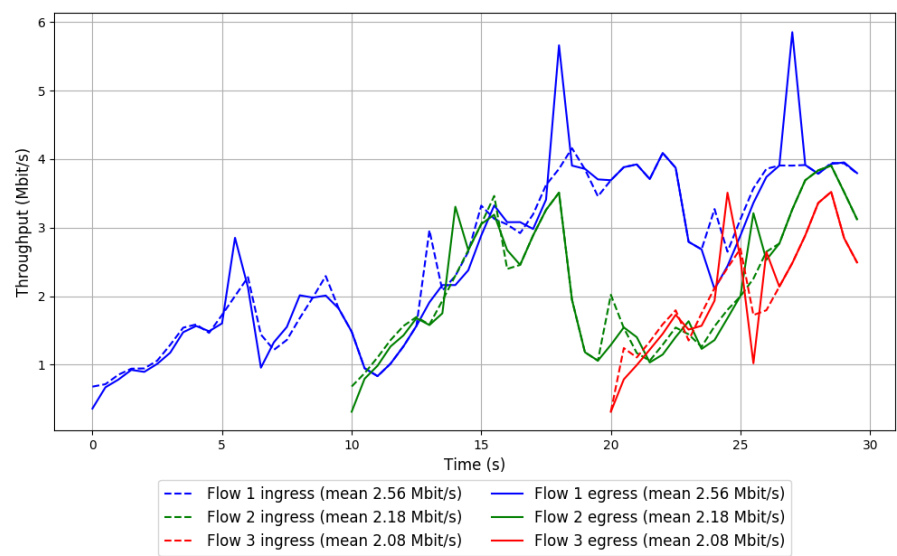
-- Flow 3:

Average throughput: 2.08 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-16 20:41:58

End at: 2017-11-16 20:42:28

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 113.385 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 113.407 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 1.82 Mbit/s

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

Loss rate: 0.49%

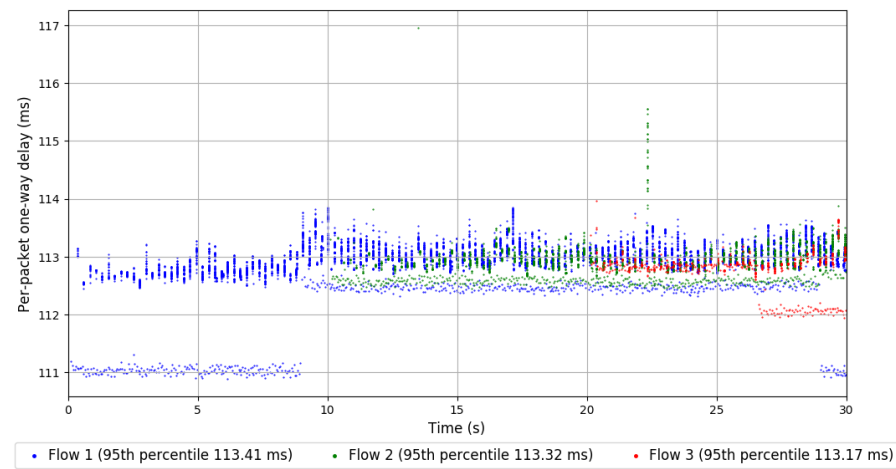
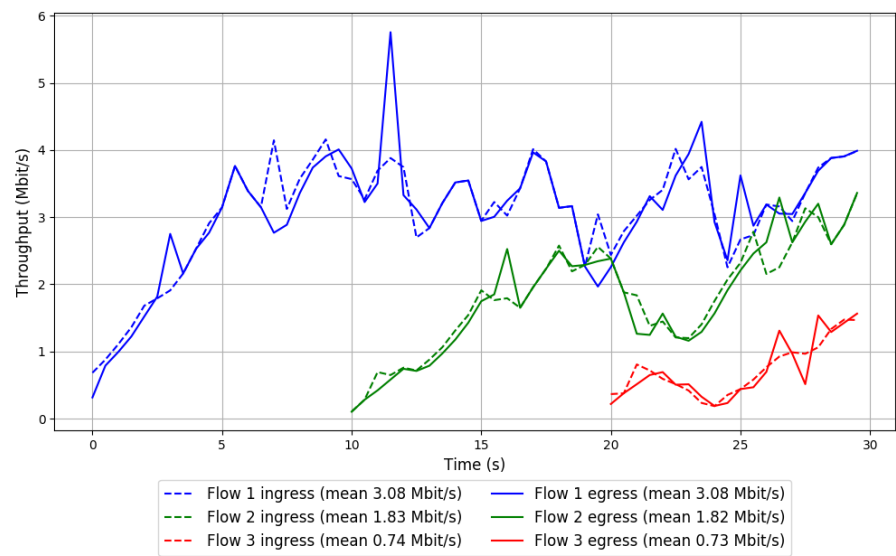
-- Flow 3:

Average throughput: 0.73 Mbit/s

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

Loss rate: 0.98%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 20:55:28

End at: 2017-11-16 20:55:58

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

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

Loss rate: 0.19%

-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 113.023 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 112.999 ms

Loss rate: 0.31%

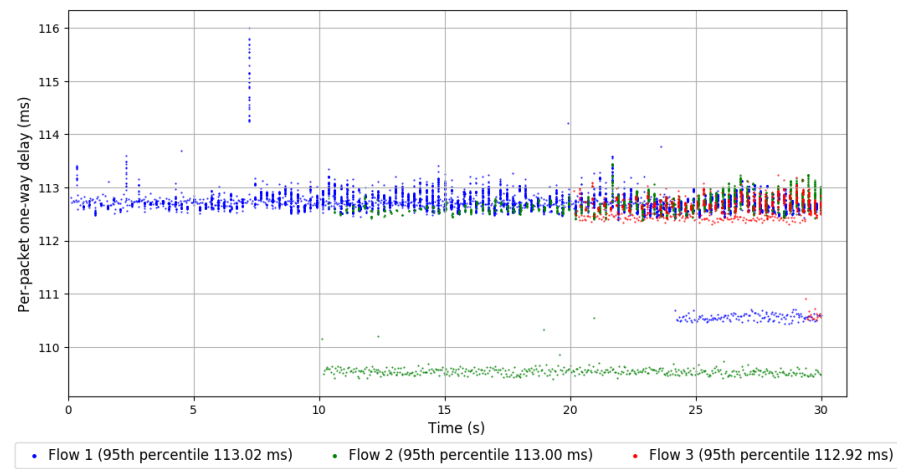
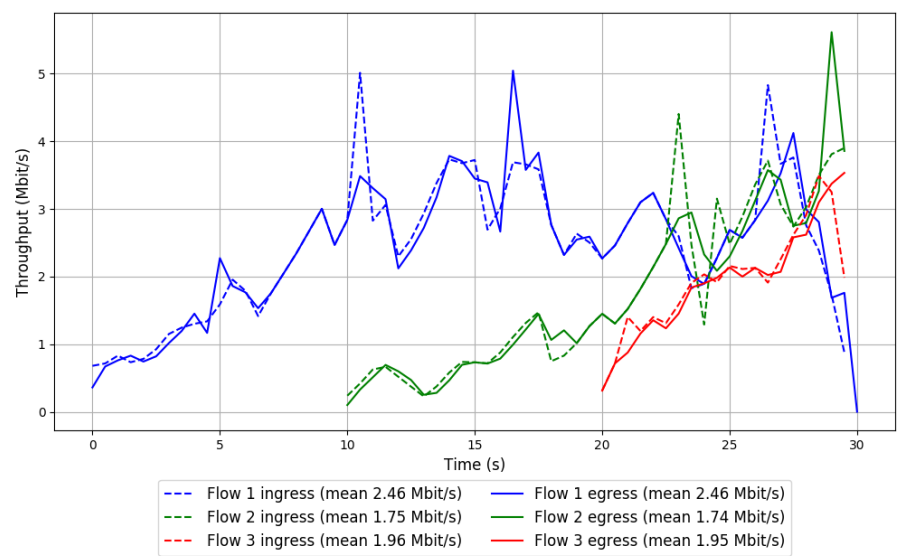
-- Flow 3:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 112.923 ms

Loss rate: 0.55%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 21:08:36

End at: 2017-11-16 21:09:06

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 113.507 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.84 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 0.00%

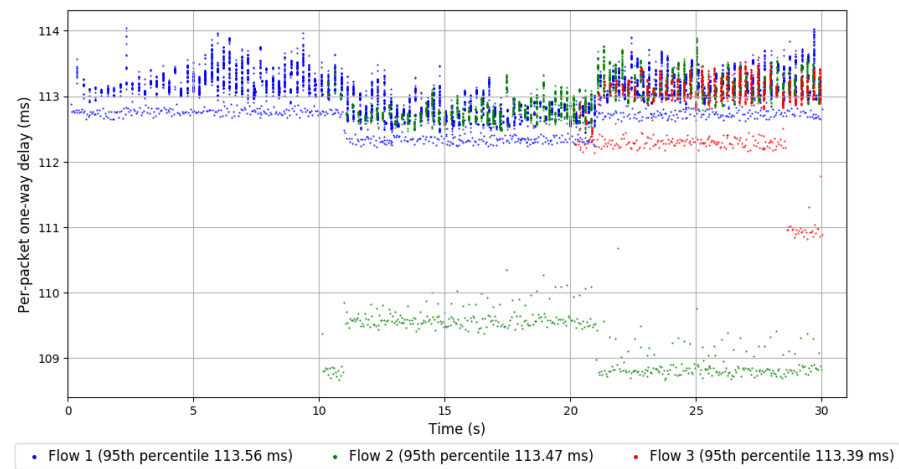
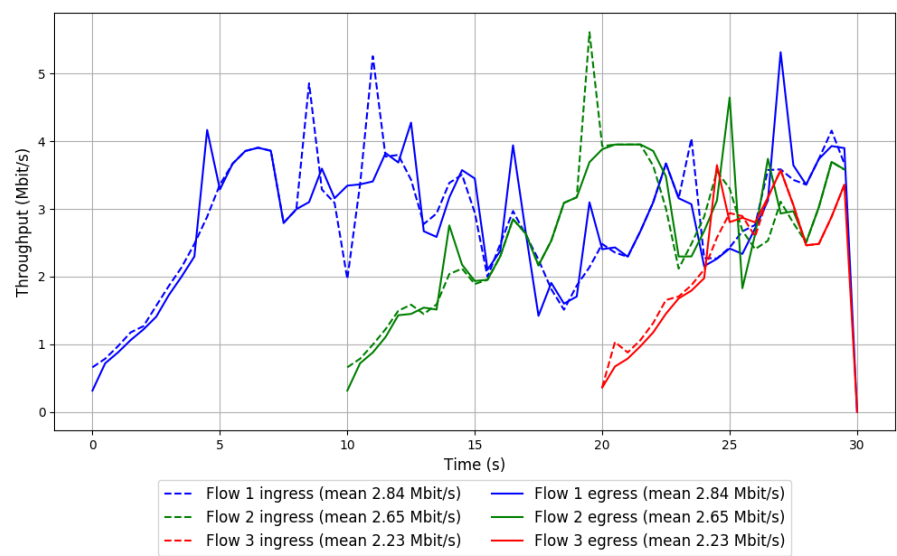
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 21:22:28

End at: 2017-11-16 21:22:58

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 113.459 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 113.465 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 113.427 ms

Loss rate: 0.00%

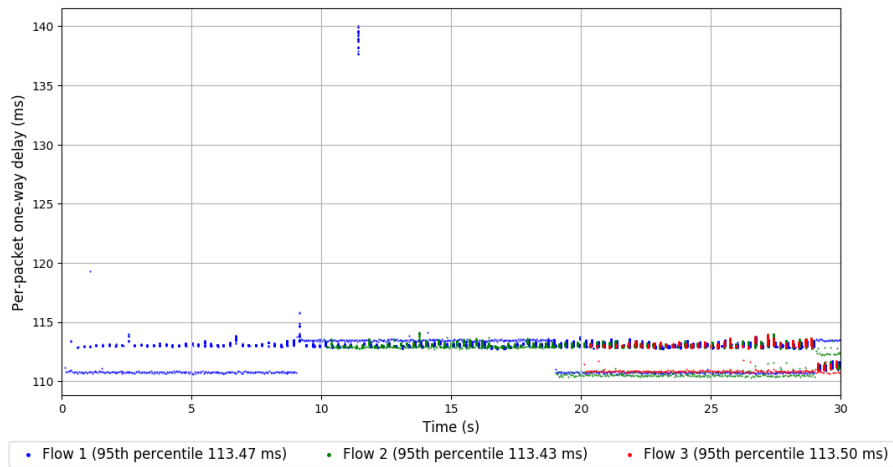
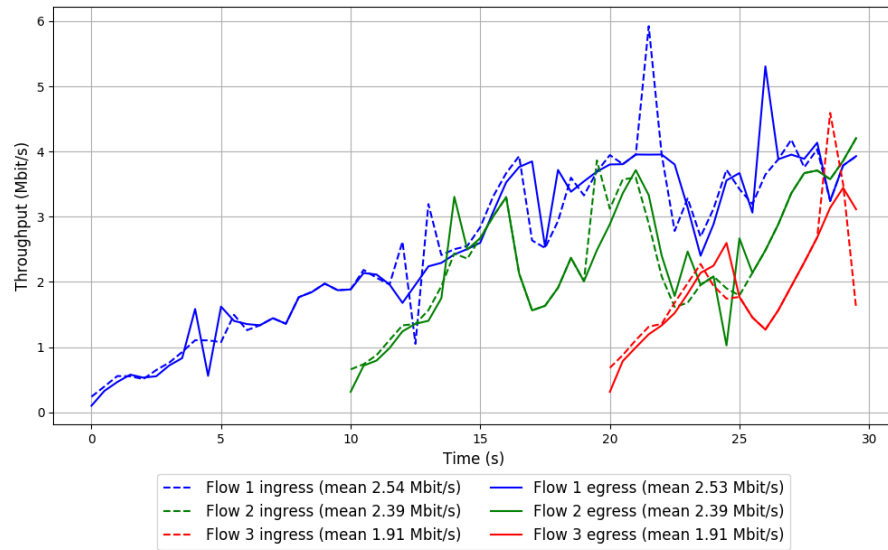
-- Flow 3:

Average throughput: 1.91 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 21:35:37

End at: 2017-11-16 21:36:07

Below is generated by plot.py at 2017-11-16 23:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.14 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 113.448 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 113.189 ms

Loss rate: 0.00%

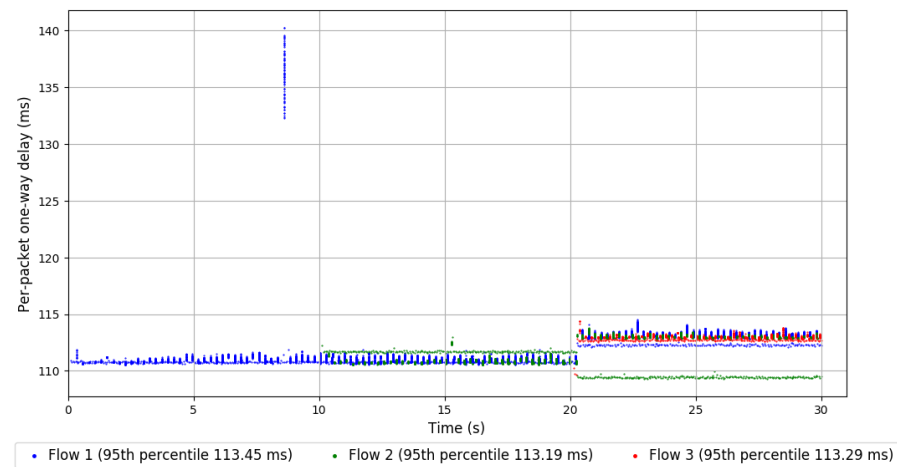
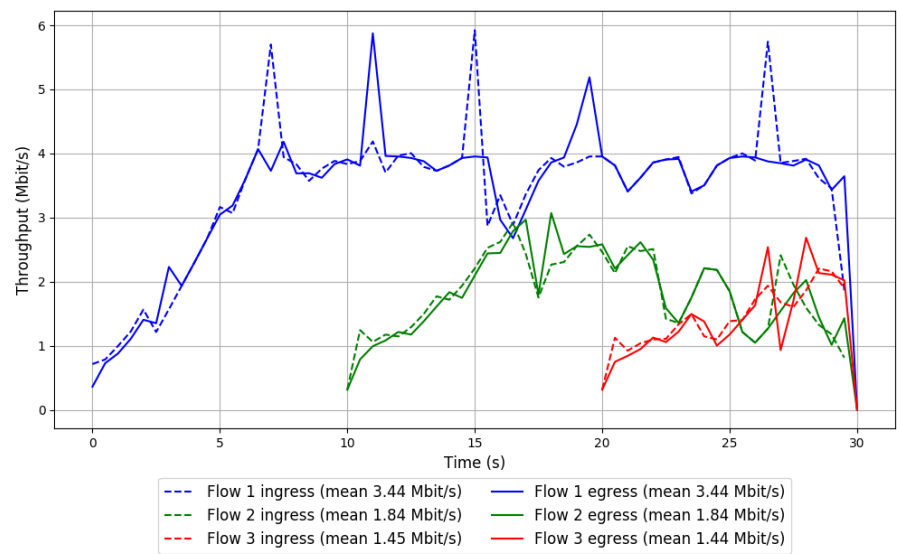
-- Flow 3:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 113.288 ms

Loss rate: 0.25%

Run 10: Report of Sprout — Data Link

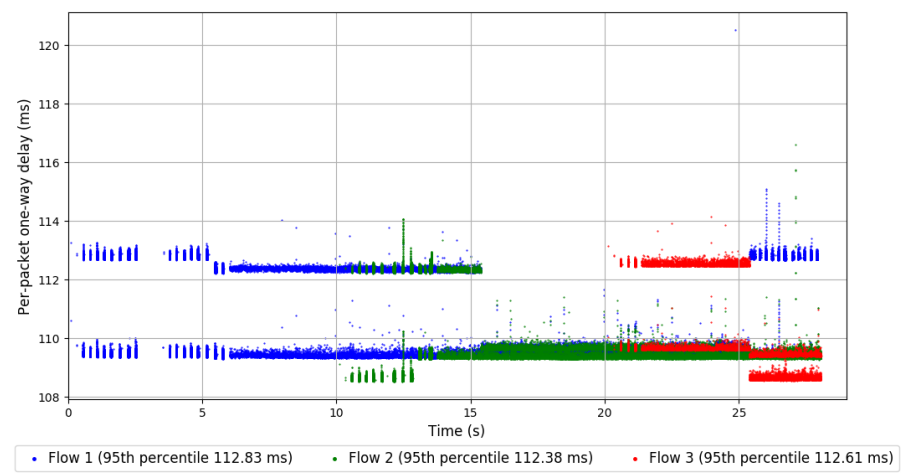
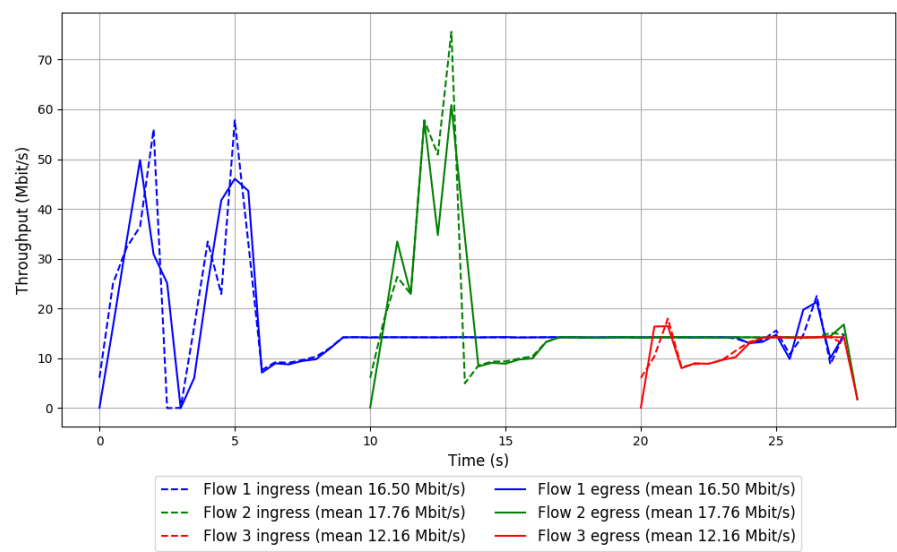


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 19:26:10
End at: 2017-11-16 19:26:40

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 112.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 112.834 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.76 Mbit/s
95th percentile per-packet one-way delay: 112.375 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.16 Mbit/s
95th percentile per-packet one-way delay: 112.606 ms
Loss rate: 0.00%
```


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

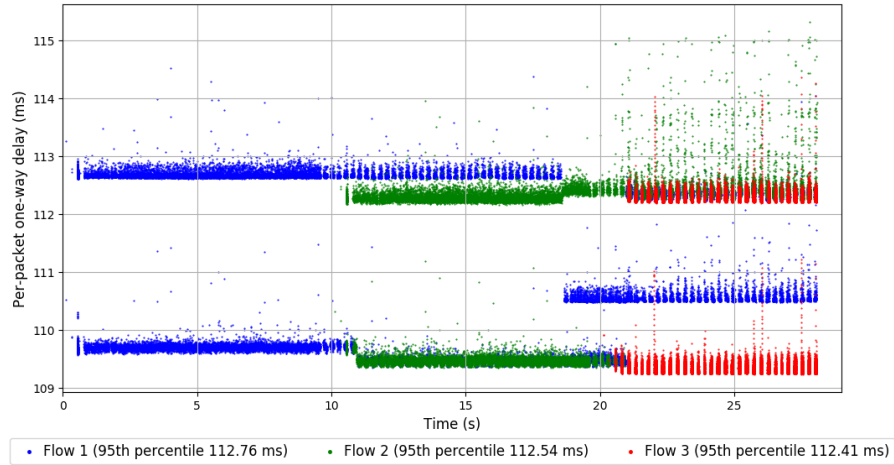
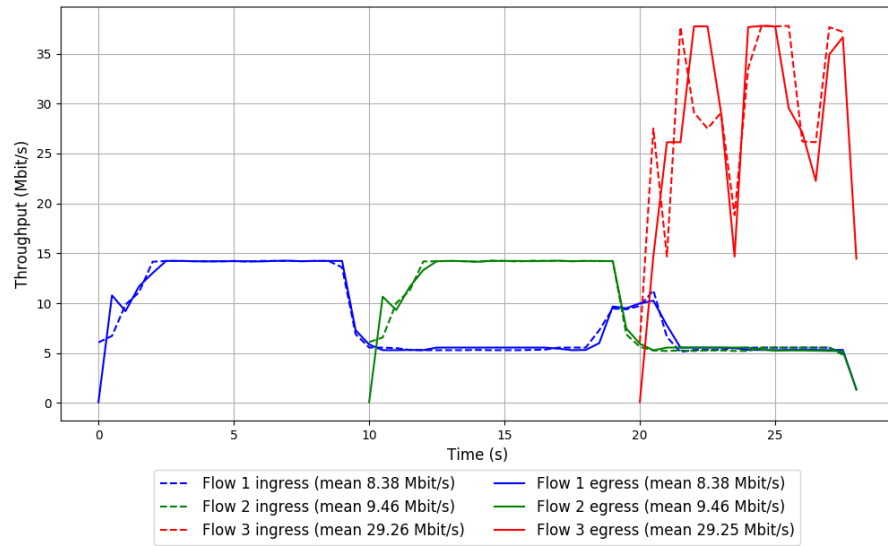


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 19:39:24
End at: 2017-11-16 19:39:54

# Below is generated by plot.py at 2017-11-16 23:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.76 Mbit/s
95th percentile per-packet one-way delay: 112.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 112.759 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 112.542 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.25 Mbit/s
95th percentile per-packet one-way delay: 112.413 ms
Loss rate: 0.01%
```

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

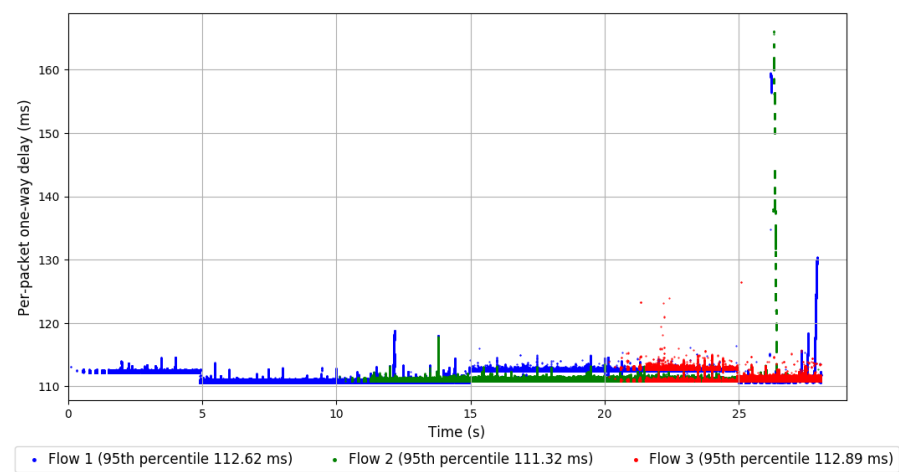
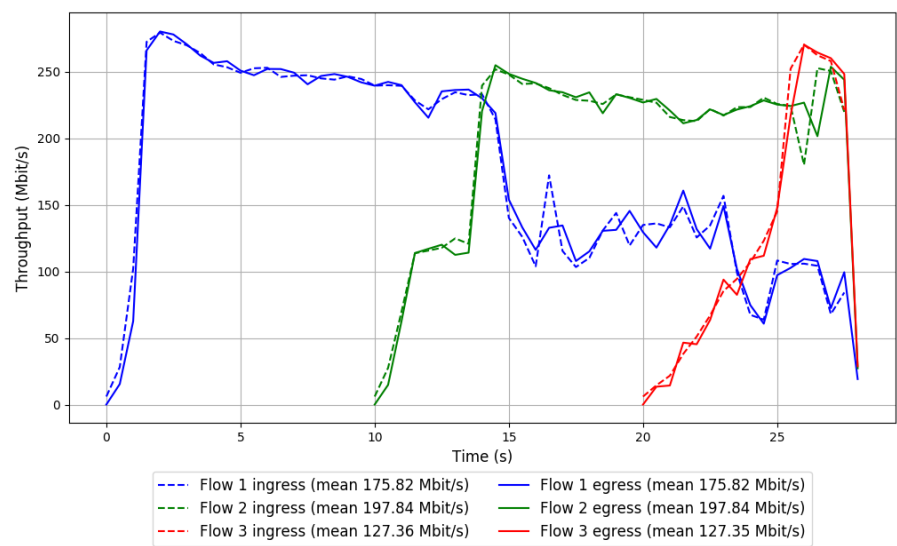


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 19:52:41
End at: 2017-11-16 19:53:11

# Below is generated by plot.py at 2017-11-16 23:09:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.87 Mbit/s
95th percentile per-packet one-way delay: 112.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.82 Mbit/s
95th percentile per-packet one-way delay: 112.621 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.84 Mbit/s
95th percentile per-packet one-way delay: 111.320 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.35 Mbit/s
95th percentile per-packet one-way delay: 112.891 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 20:06:20

End at: 2017-11-16 20:06:50

Below is generated by plot.py at 2017-11-16 23:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.39 Mbit/s

95th percentile per-packet one-way delay: 112.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 110.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.47 Mbit/s

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

Loss rate: 0.00%

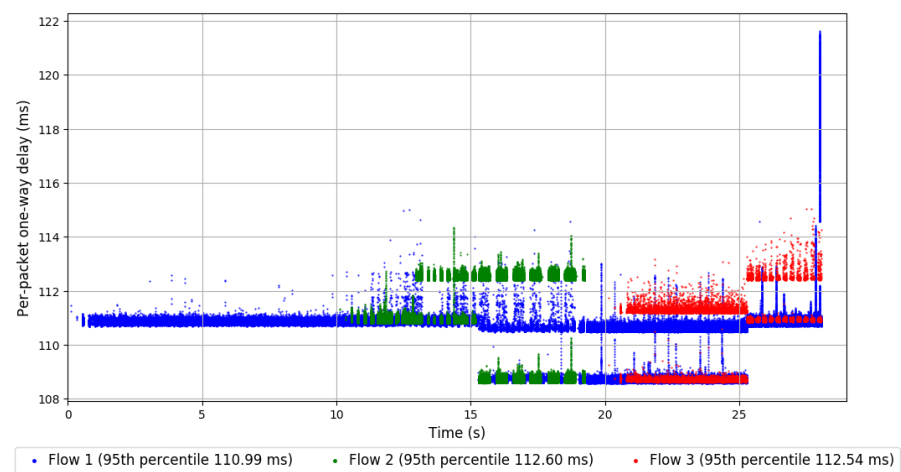
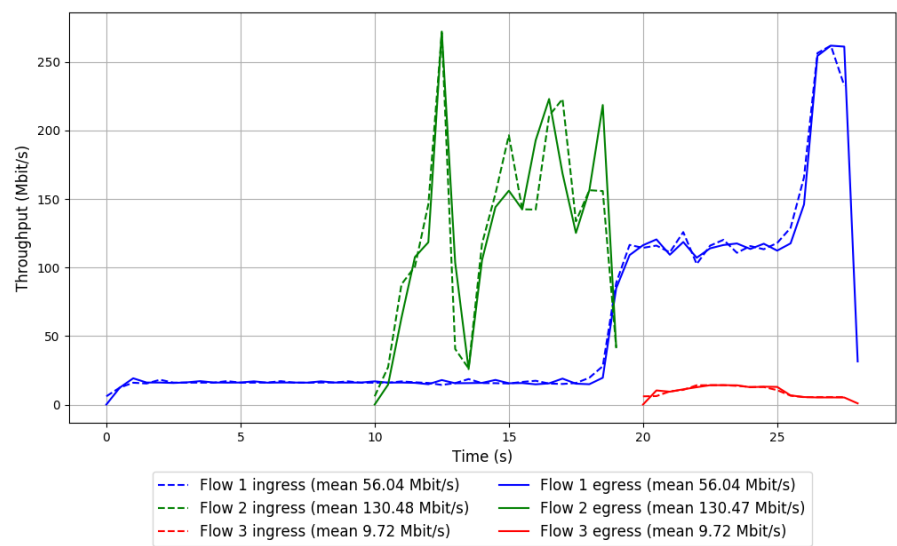
-- Flow 3:

Average throughput: 9.72 Mbit/s

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

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 20:19:44

End at: 2017-11-16 20:20:14

Below is generated by plot.py at 2017-11-16 23:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.94 Mbit/s

95th percentile per-packet one-way delay: 112.664 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.97 Mbit/s

95th percentile per-packet one-way delay: 112.411 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 112.795 ms

Loss rate: 0.00%

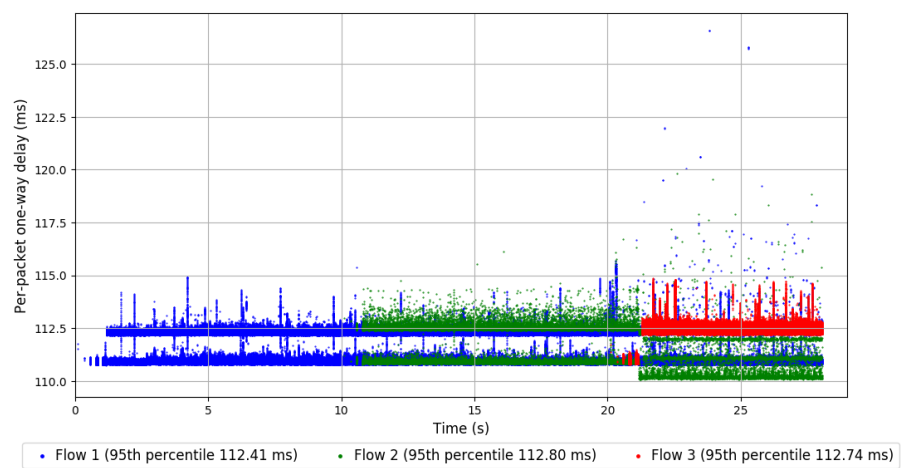
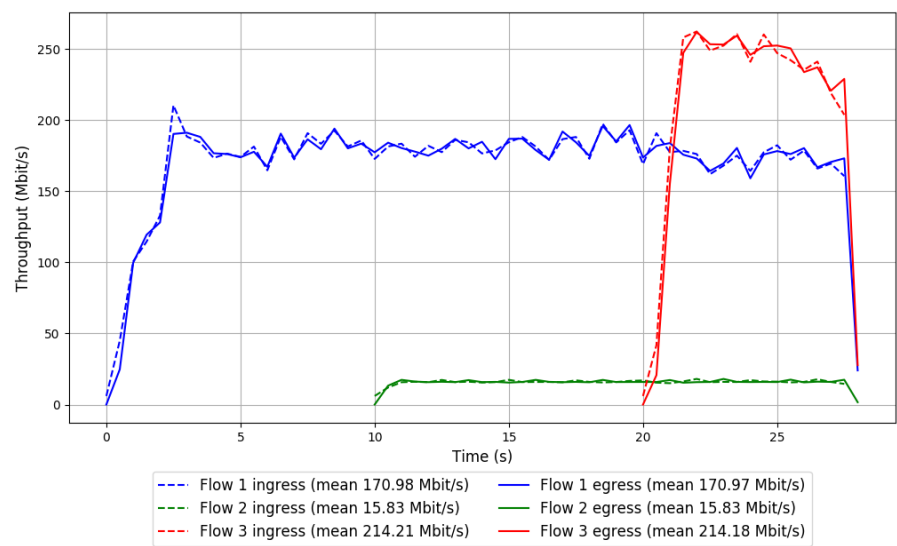
-- Flow 3:

Average throughput: 214.18 Mbit/s

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

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 20:33:26

End at: 2017-11-16 20:33:56

Below is generated by plot.py at 2017-11-16 23:09:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.98 Mbit/s

95th percentile per-packet one-way delay: 112.847 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 133.17 Mbit/s

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

Loss rate: 0.16%

-- Flow 2:

Average throughput: 213.37 Mbit/s

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

Loss rate: 0.12%

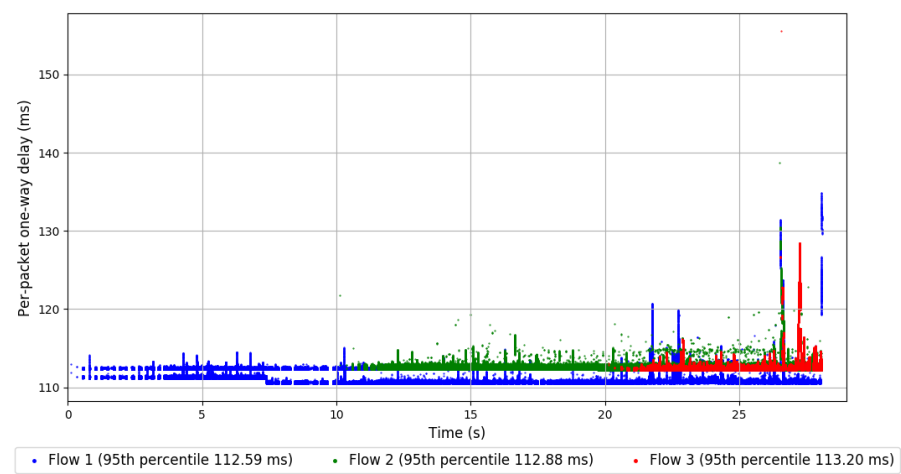
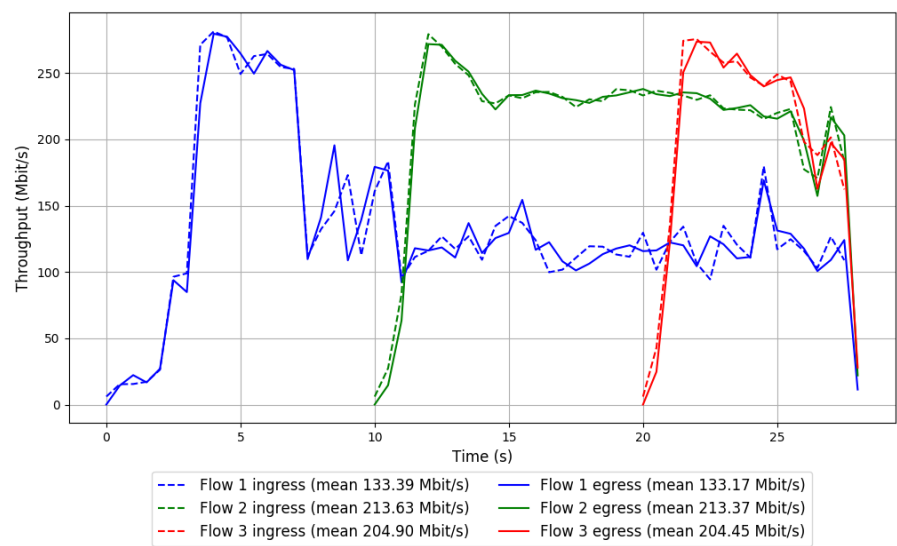
-- Flow 3:

Average throughput: 204.45 Mbit/s

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

Loss rate: 0.23%

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

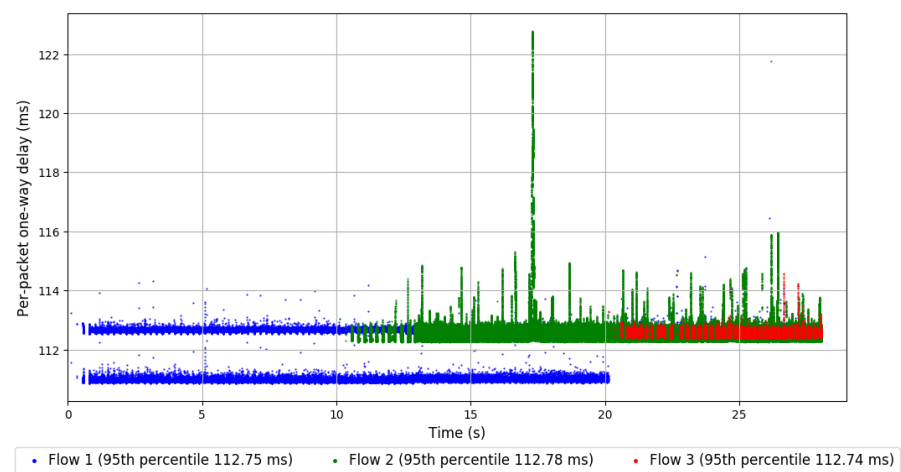
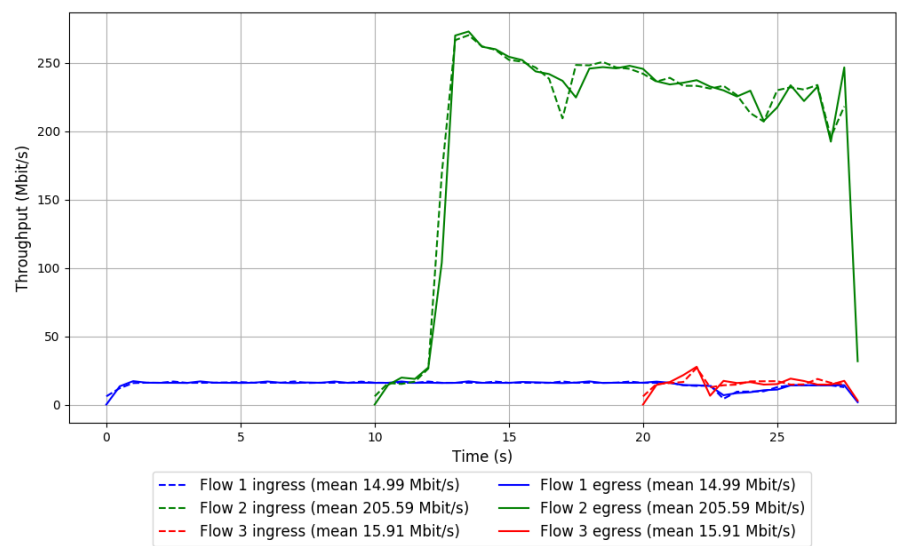


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 20:47:15
End at: 2017-11-16 20:47:45

# Below is generated by plot.py at 2017-11-16 23:09:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.48 Mbit/s
95th percentile per-packet one-way delay: 112.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.99 Mbit/s
95th percentile per-packet one-way delay: 112.749 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 205.59 Mbit/s
95th percentile per-packet one-way delay: 112.783 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 112.736 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 21:00:37

End at: 2017-11-16 21:01:07

Below is generated by plot.py at 2017-11-16 23:09:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.28 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 112.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 112.912 ms

Loss rate: 0.00%

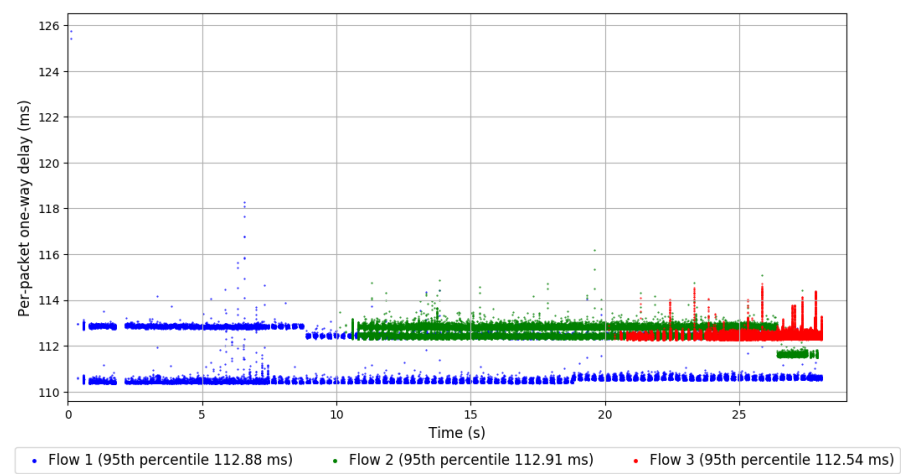
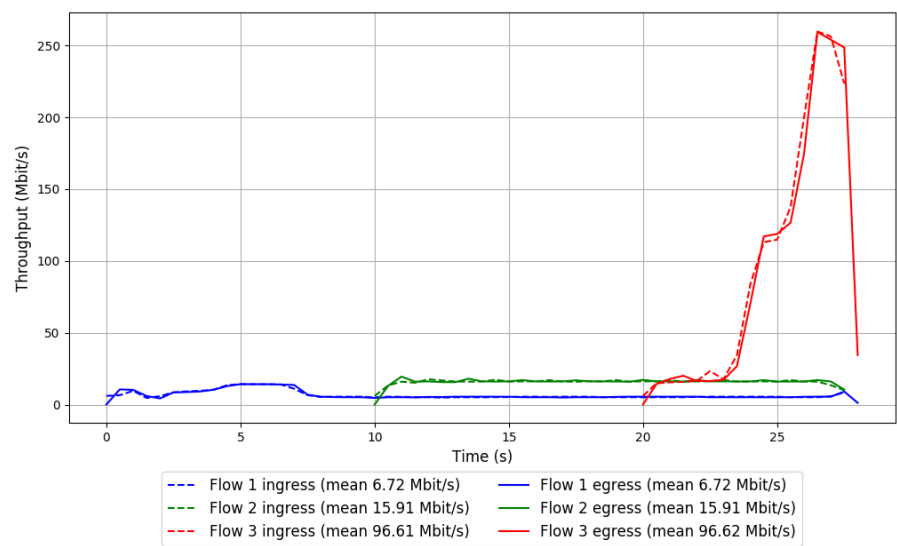
-- Flow 3:

Average throughput: 96.62 Mbit/s

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

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 21:13:52

End at: 2017-11-16 21:14:22

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.18 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 207.51 Mbit/s

95th percentile per-packet one-way delay: 112.691 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 207.34 Mbit/s

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

Loss rate: 0.03%

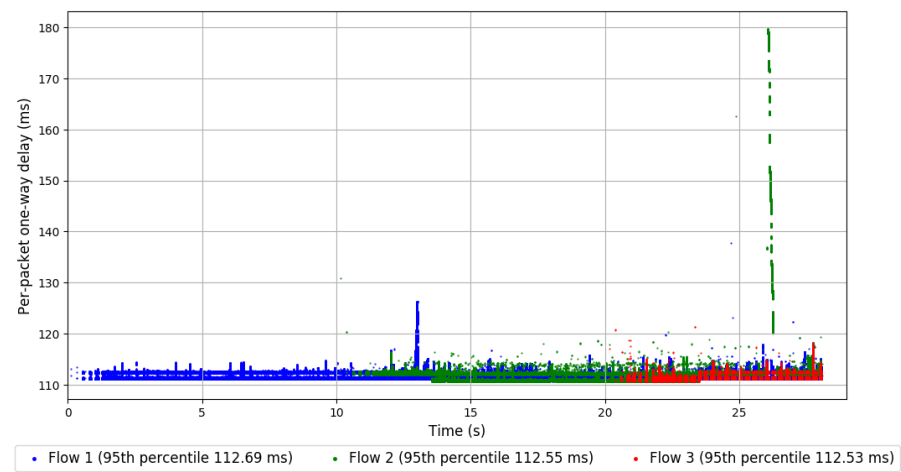
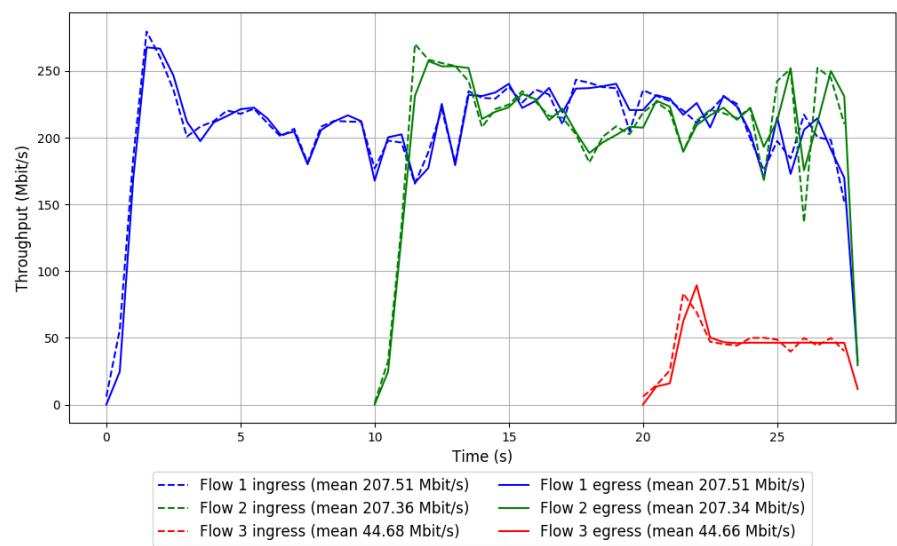
-- Flow 3:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 112.532 ms

Loss rate: 0.08%

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

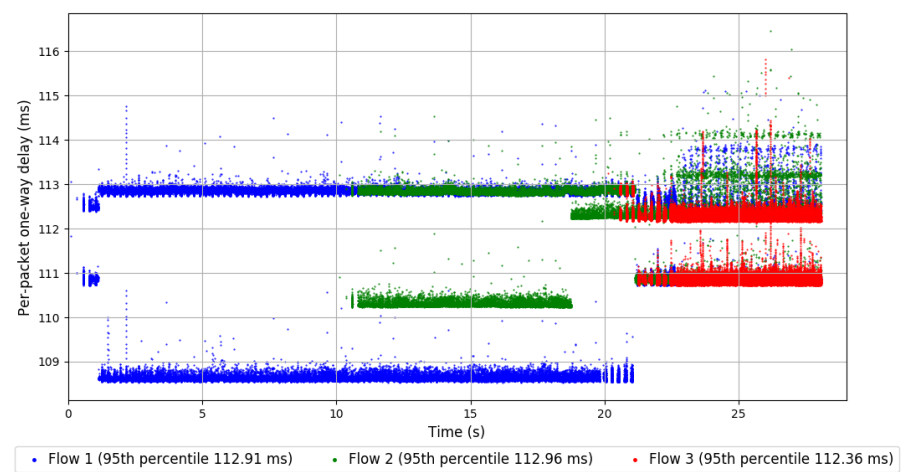
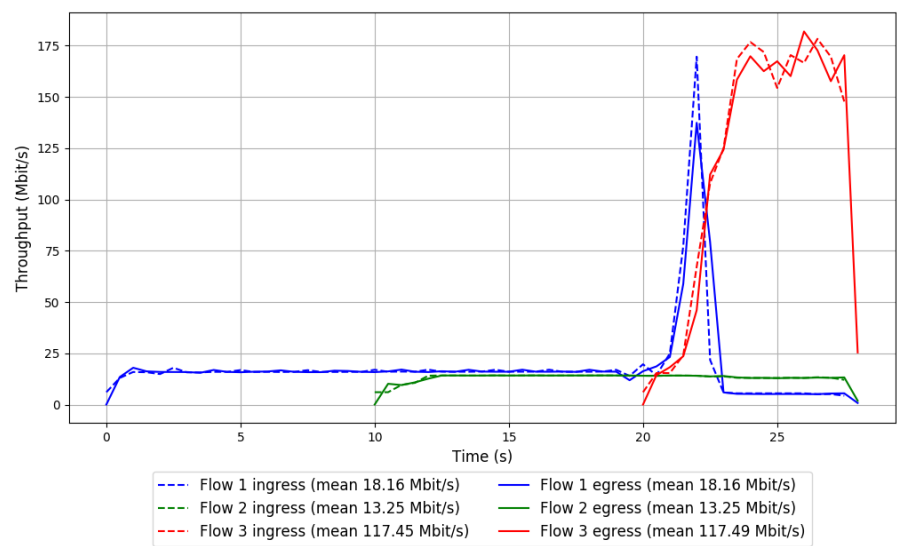


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 21:27:34
End at: 2017-11-16 21:28:04

# Below is generated by plot.py at 2017-11-16 23:12:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.01 Mbit/s
95th percentile per-packet one-way delay: 112.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 112.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 112.961 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 117.49 Mbit/s
95th percentile per-packet one-way delay: 112.363 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 19:37:25

End at: 2017-11-16 19:37:55

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 110.422 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.59 Mbit/s

95th percentile per-packet one-way delay: 110.464 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 110.318 ms

Loss rate: 0.00%

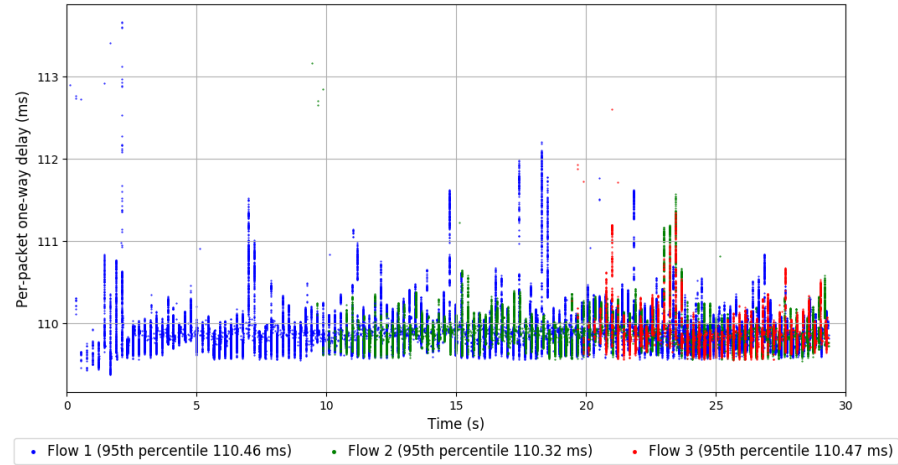
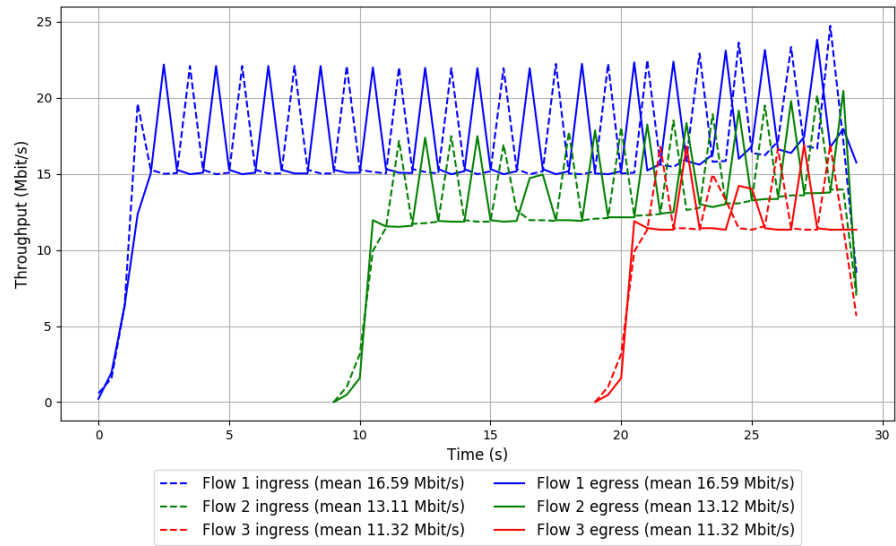
-- Flow 3:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 110.471 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 19:50:35

End at: 2017-11-16 19:51:05

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.11 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.60 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.74 Mbit/s

95th percentile per-packet one-way delay: 114.917 ms

Loss rate: 0.00%

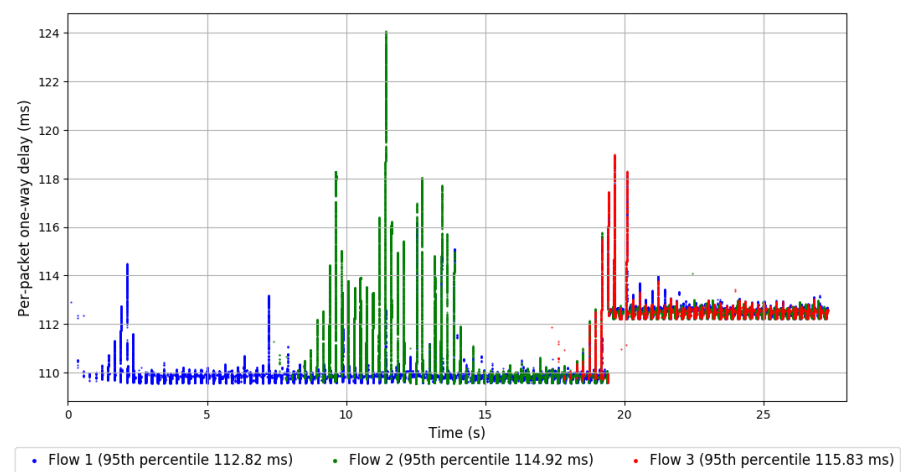
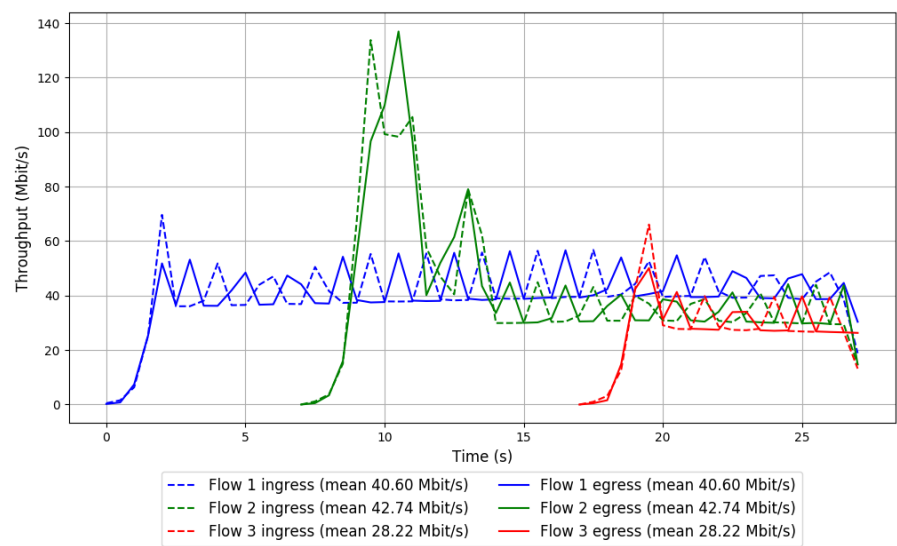
-- Flow 3:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 115.829 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 20:04:25

End at: 2017-11-16 20:04:55

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.25 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 113.511 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 60.20 Mbit/s

95th percentile per-packet one-way delay: 111.795 ms

Loss rate: 0.00%

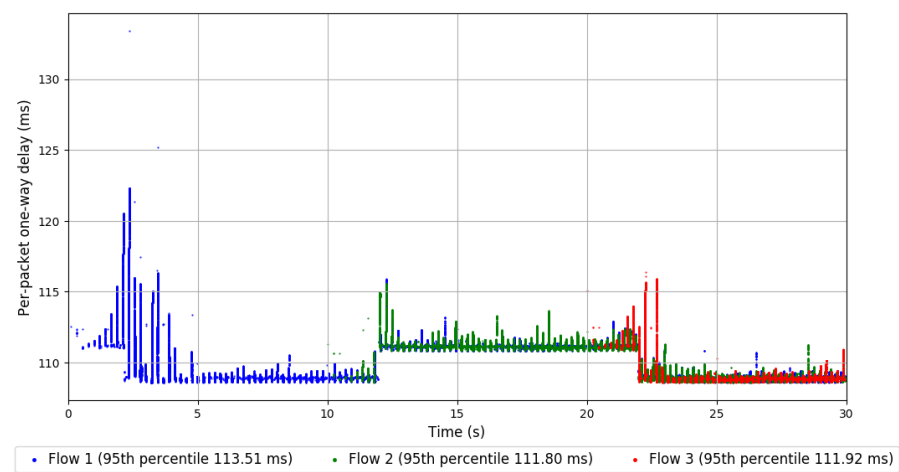
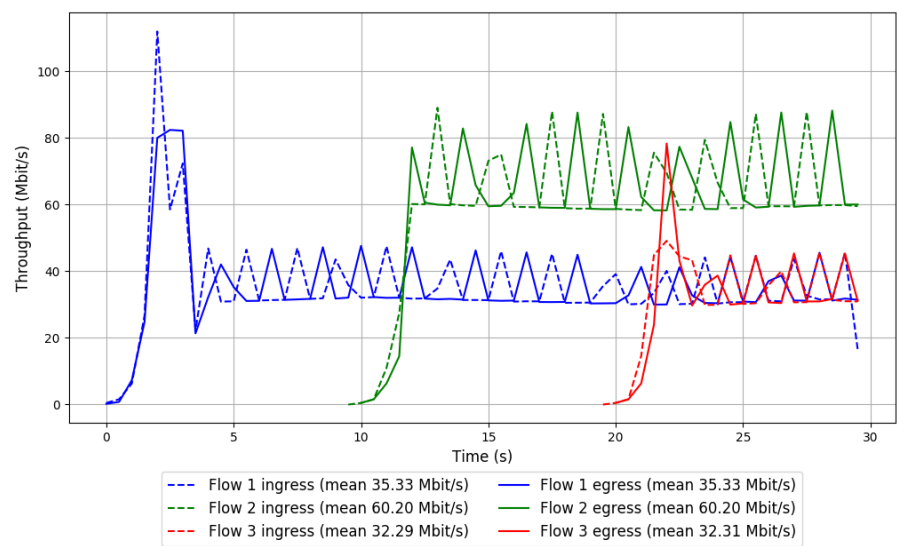
-- Flow 3:

Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 111.915 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 20:17:42

End at: 2017-11-16 20:18:12

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.83 Mbit/s

95th percentile per-packet one-way delay: 114.295 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 112.690 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 114.060 ms

Loss rate: 0.00%

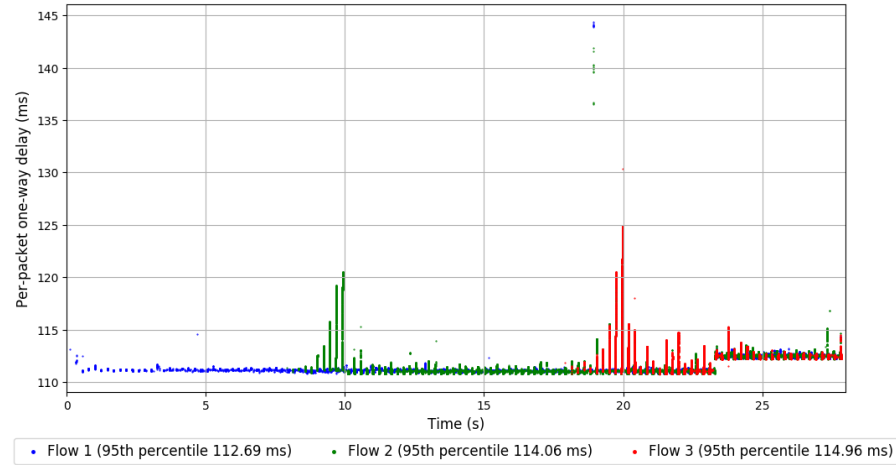
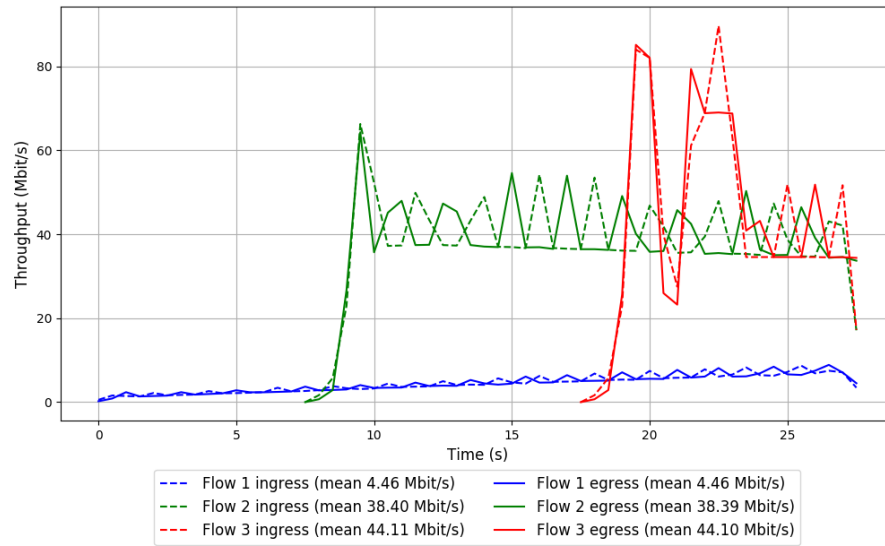
-- Flow 3:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 114.959 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 20:31:22

End at: 2017-11-16 20:31:52

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.64 Mbit/s

95th percentile per-packet one-way delay: 114.328 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 33.44 Mbit/s

95th percentile per-packet one-way delay: 114.250 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.97 Mbit/s

95th percentile per-packet one-way delay: 114.545 ms

Loss rate: 0.00%

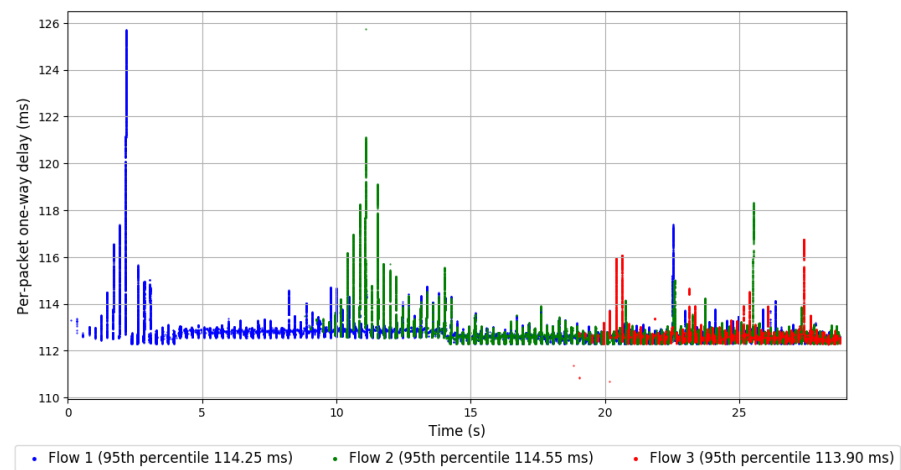
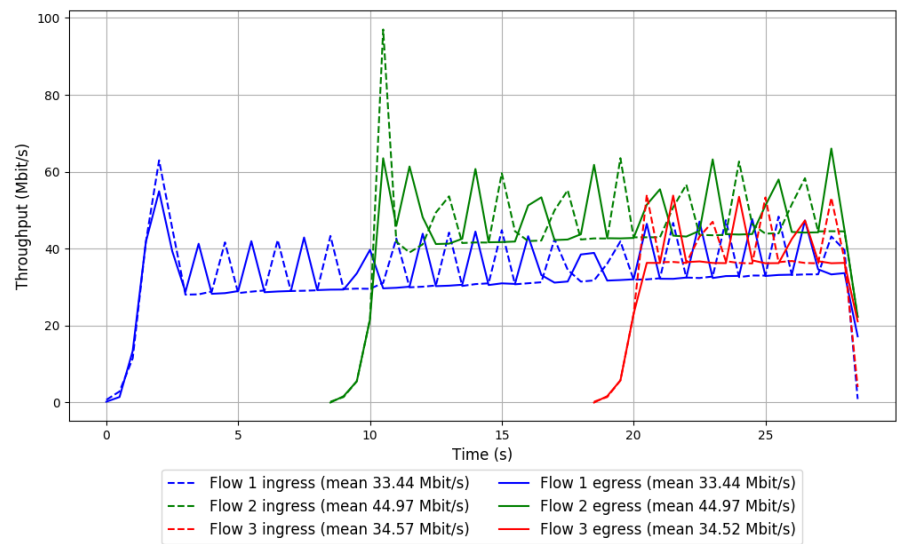
-- Flow 3:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: 113.902 ms

Loss rate: 0.13%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 20:45:13

End at: 2017-11-16 20:45:43

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 114.177 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 9.31 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 114.430 ms

Loss rate: 0.01%

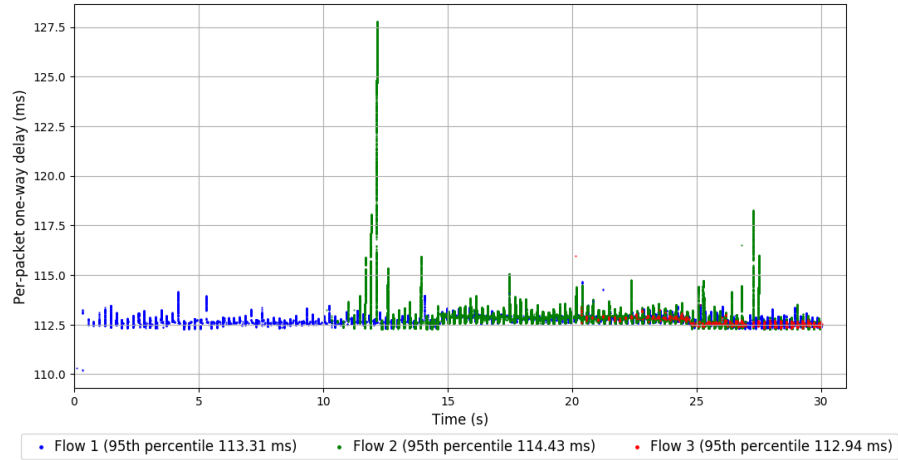
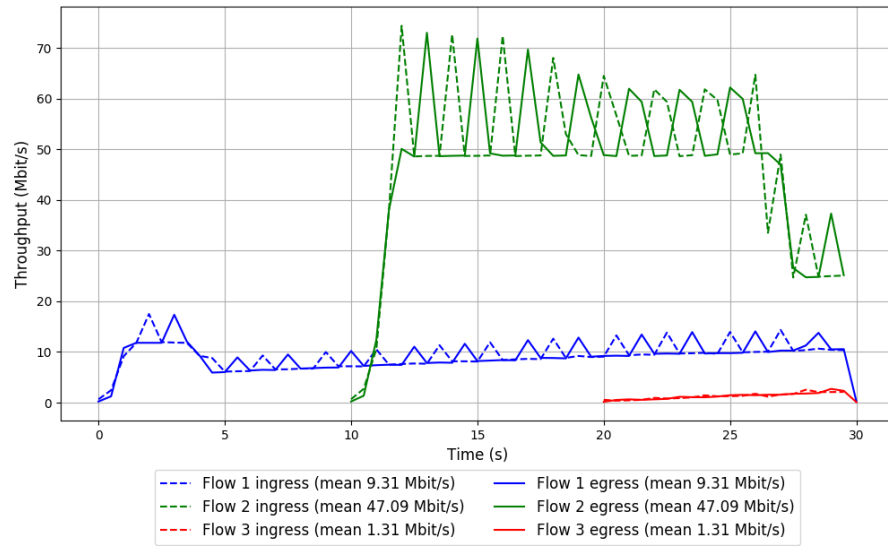
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 112.944 ms

Loss rate: 0.18%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 20:58:42

End at: 2017-11-16 20:59:12

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 114.582 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 16.60 Mbit/s

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

Loss rate: 0.19%

-- Flow 2:

Average throughput: 48.79 Mbit/s

95th percentile per-packet one-way delay: 114.925 ms

Loss rate: 0.02%

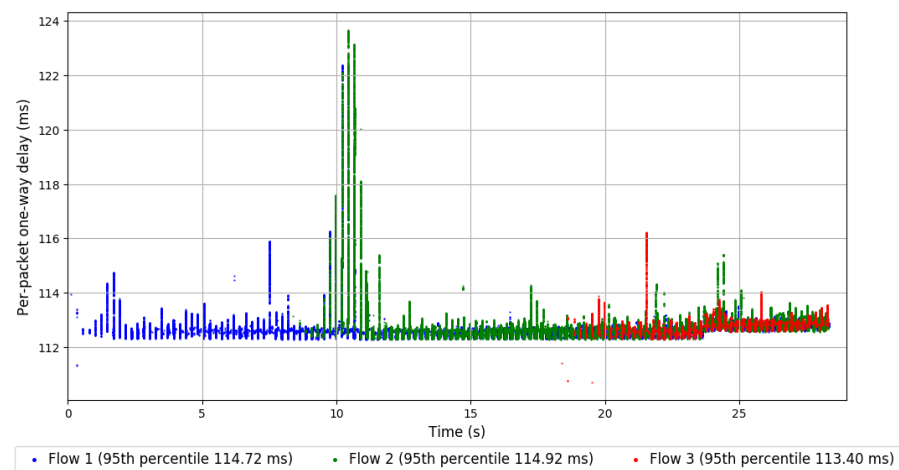
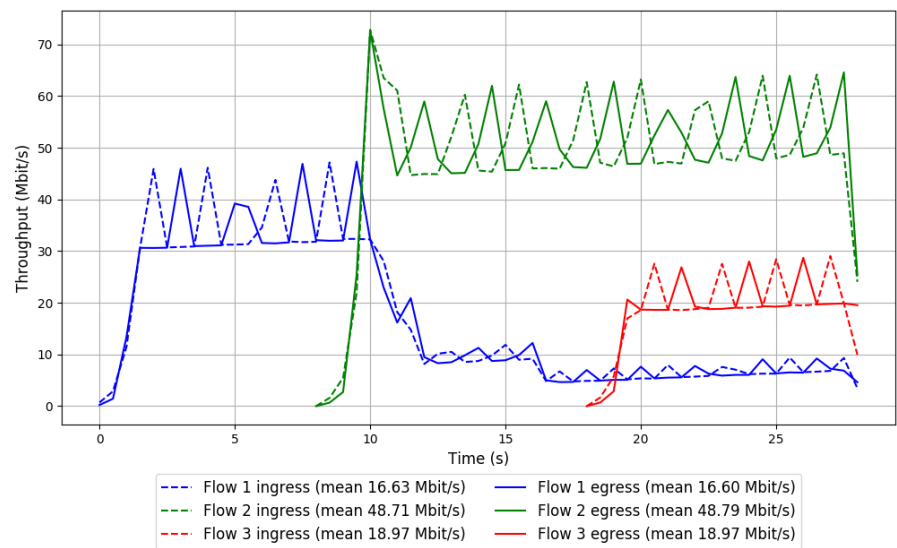
-- Flow 3:

Average throughput: 18.97 Mbit/s

95th percentile per-packet one-way delay: 113.398 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 21:11:51

End at: 2017-11-16 21:12:21

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 113.903 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.17 Mbit/s

95th percentile per-packet one-way delay: 113.778 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 113.376 ms

Loss rate: 0.06%

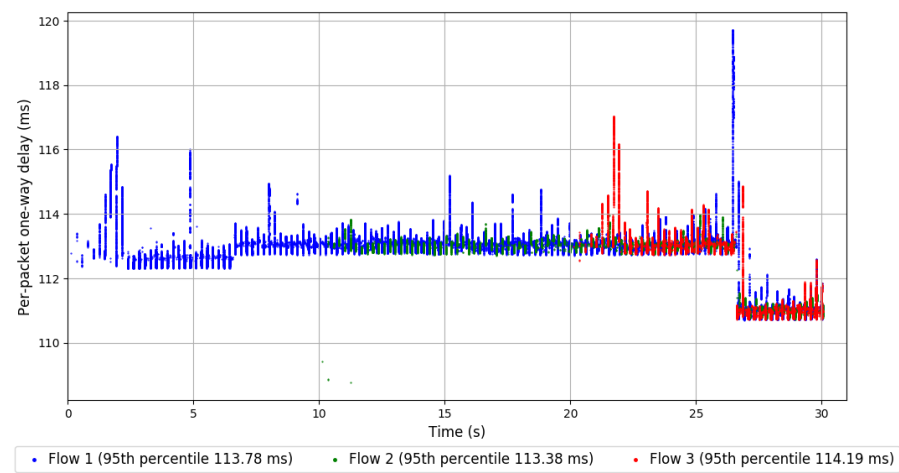
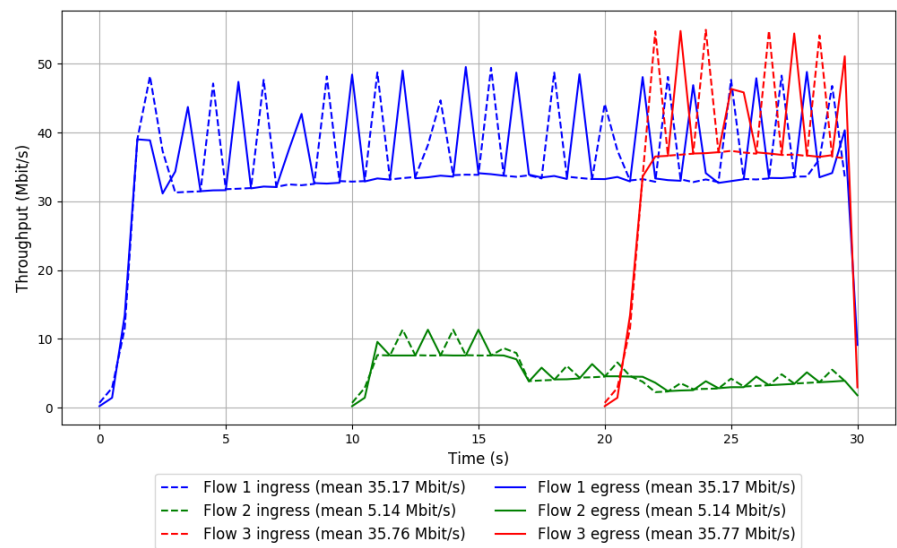
-- Flow 3:

Average throughput: 35.77 Mbit/s

95th percentile per-packet one-way delay: 114.194 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 21:25:42

End at: 2017-11-16 21:26:12

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 113.732 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 113.679 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 114.059 ms

Loss rate: 0.01%

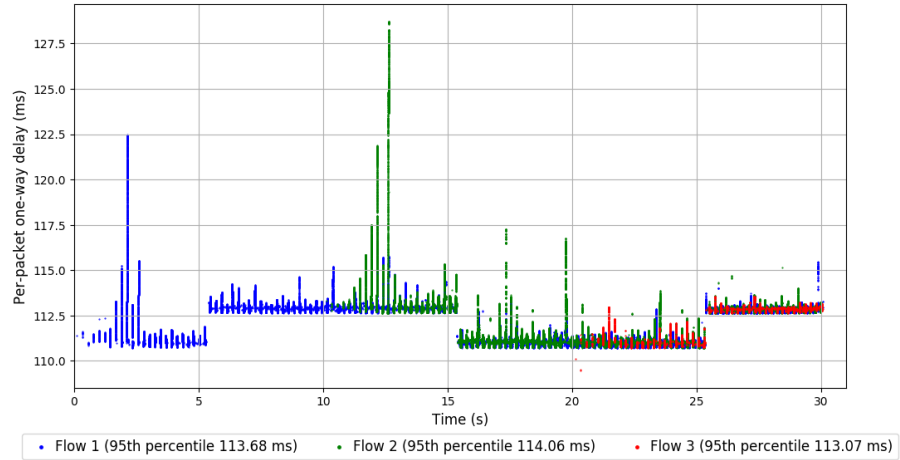
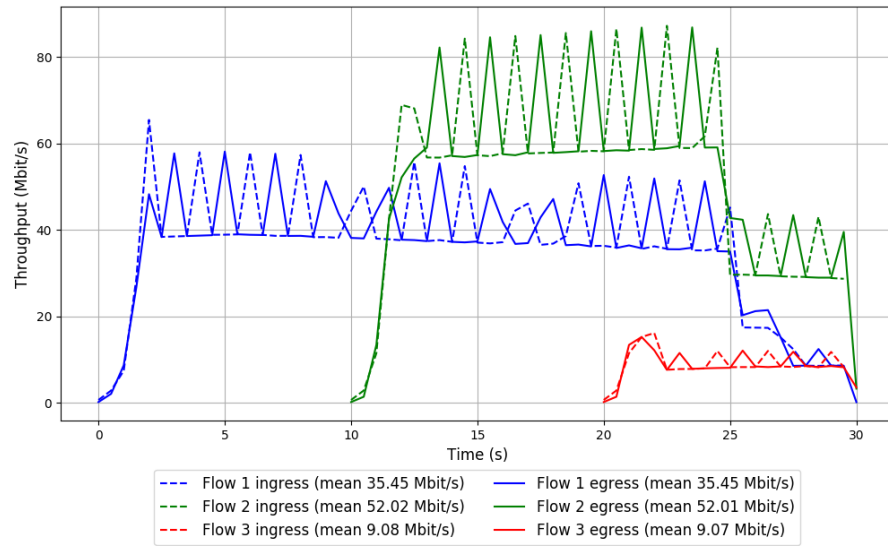
-- Flow 3:

Average throughput: 9.07 Mbit/s

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

Loss rate: 0.12%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 21:38:52

End at: 2017-11-16 21:39:22

Below is generated by plot.py at 2017-11-16 23:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 113.809 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.14 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.69 Mbit/s

95th percentile per-packet one-way delay: 113.501 ms

Loss rate: 0.00%

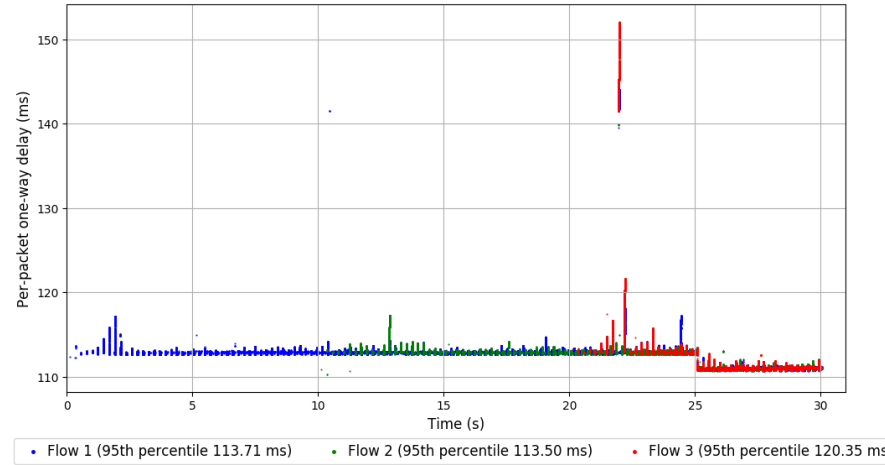
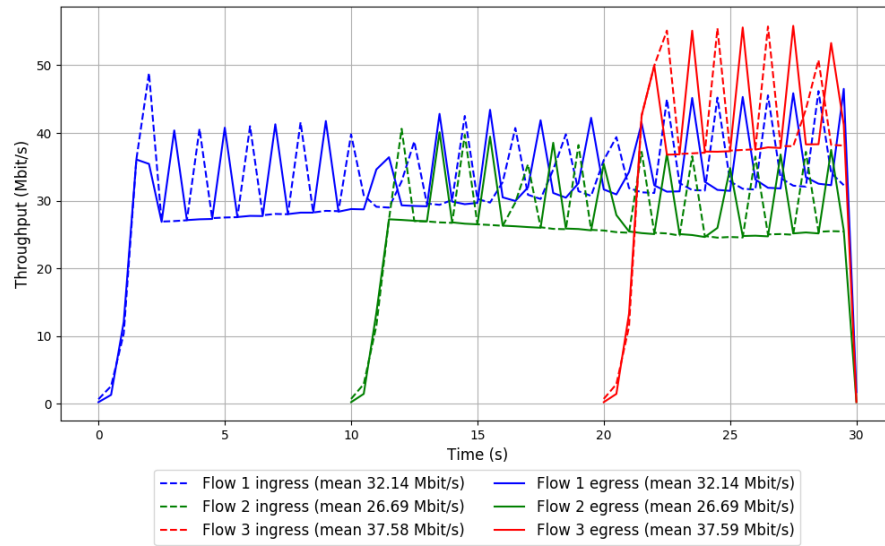
-- Flow 3:

Average throughput: 37.59 Mbit/s

95th percentile per-packet one-way delay: 120.347 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

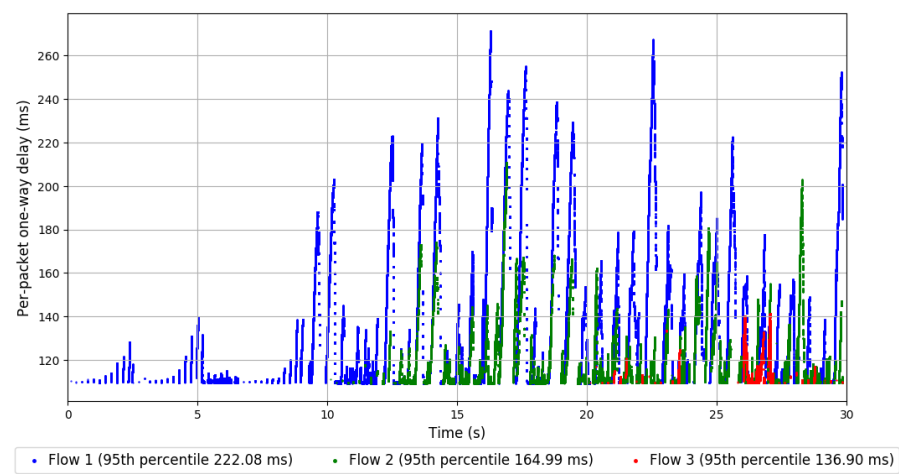
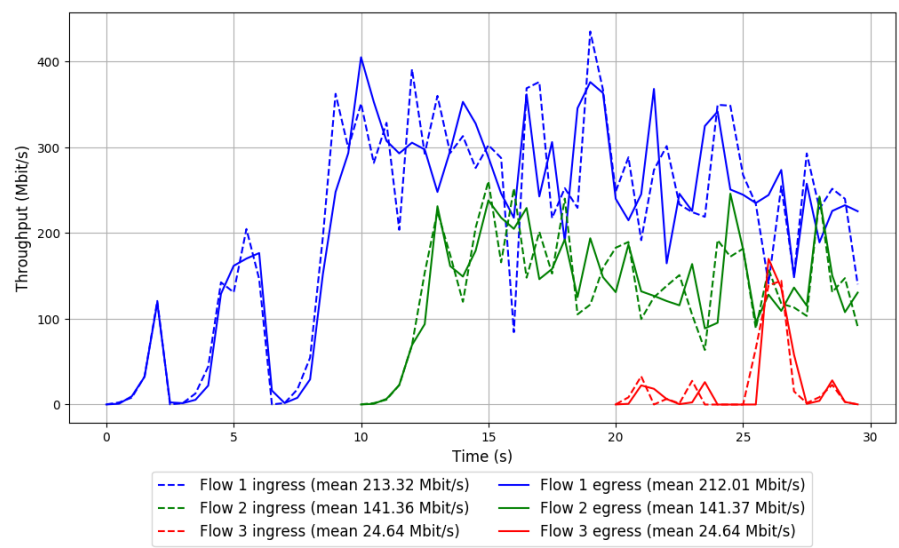


```
Run 1: Statistics of Verus

Start at: 2017-11-16 19:24:57
End at: 2017-11-16 19:25:27

# Below is generated by plot.py at 2017-11-16 23:12:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.82 Mbit/s
95th percentile per-packet one-way delay: 214.099 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 212.01 Mbit/s
95th percentile per-packet one-way delay: 222.078 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 141.37 Mbit/s
95th percentile per-packet one-way delay: 164.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 136.897 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 19:38:14

End at: 2017-11-16 19:38:44

Below is generated by plot.py at 2017-11-16 23:12:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.14 Mbit/s

95th percentile per-packet one-way delay: 260.521 ms

Loss rate: 3.22%

-- Flow 1:

Average throughput: 147.26 Mbit/s

95th percentile per-packet one-way delay: 295.027 ms

Loss rate: 5.02%

-- Flow 2:

Average throughput: 179.36 Mbit/s

95th percentile per-packet one-way delay: 221.614 ms

Loss rate: 1.14%

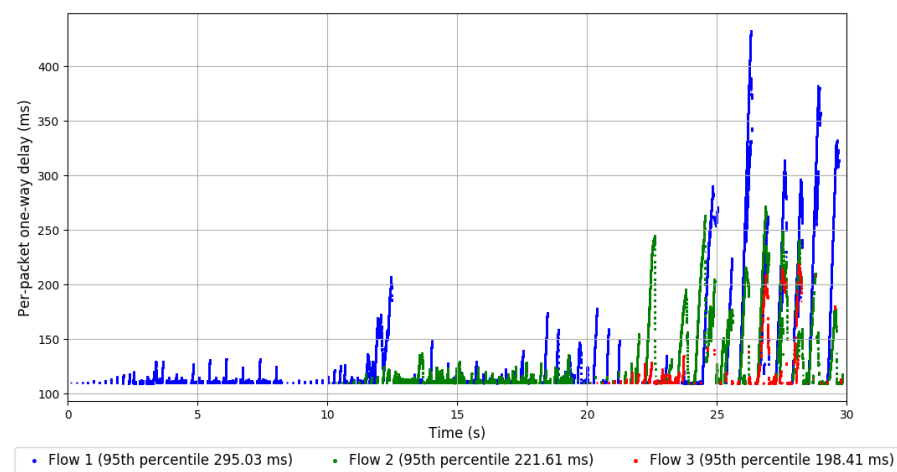
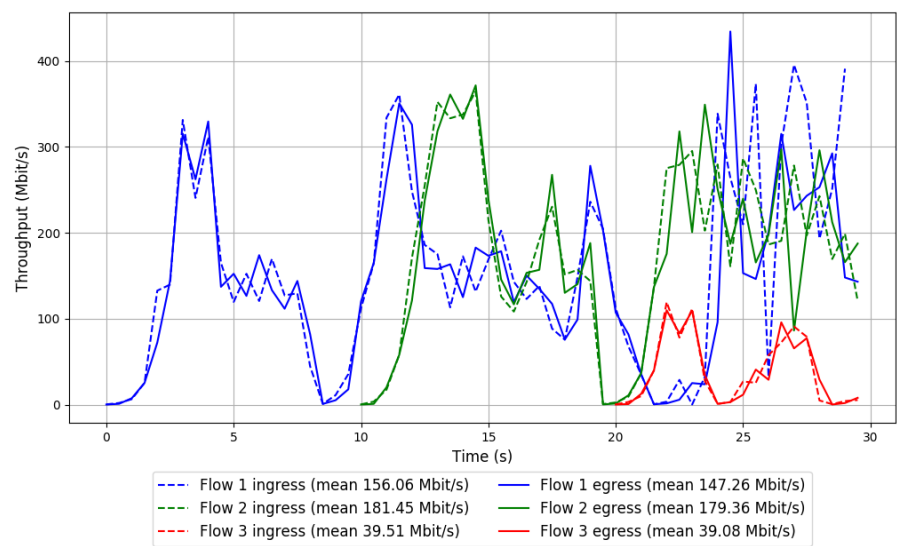
-- Flow 3:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 198.413 ms

Loss rate: 1.06%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 19:51:27

End at: 2017-11-16 19:51:57

Below is generated by plot.py at 2017-11-16 23:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.44 Mbit/s

95th percentile per-packet one-way delay: 283.012 ms

Loss rate: 6.17%

-- Flow 1:

Average throughput: 230.93 Mbit/s

95th percentile per-packet one-way delay: 266.614 ms

Loss rate: 4.31%

-- Flow 2:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 193.307 ms

Loss rate: 0.49%

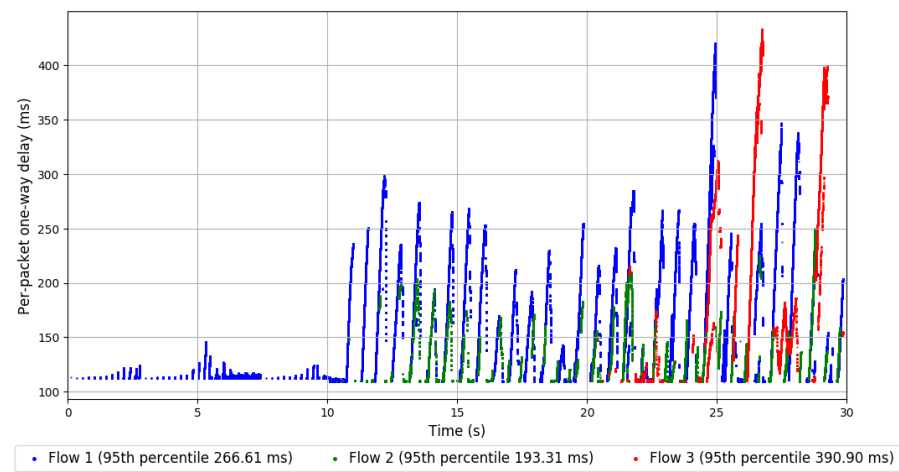
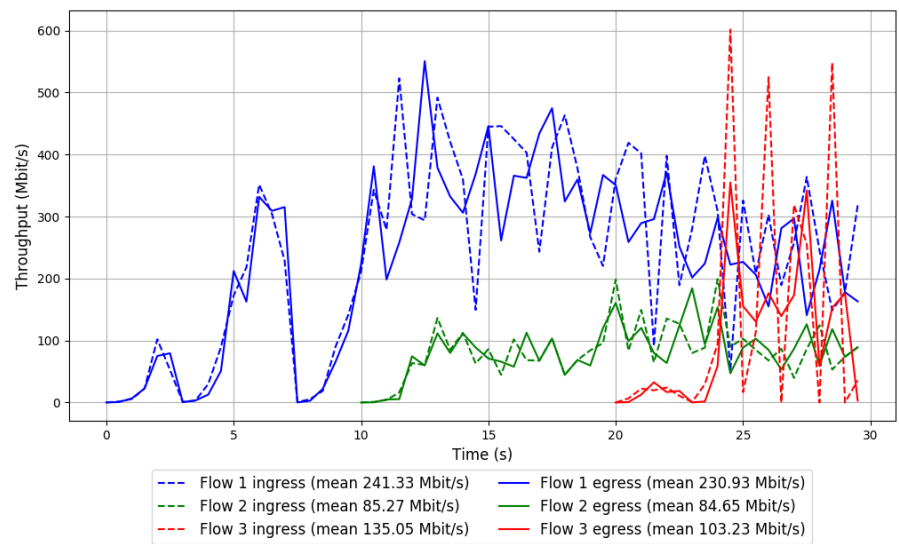
-- Flow 3:

Average throughput: 103.23 Mbit/s

95th percentile per-packet one-way delay: 390.899 ms

Loss rate: 23.56%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 20:05:18

End at: 2017-11-16 20:05:48

Below is generated by plot.py at 2017-11-16 23:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.44 Mbit/s

95th percentile per-packet one-way delay: 216.445 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 175.829 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 75.25 Mbit/s

95th percentile per-packet one-way delay: 289.056 ms

Loss rate: 5.68%

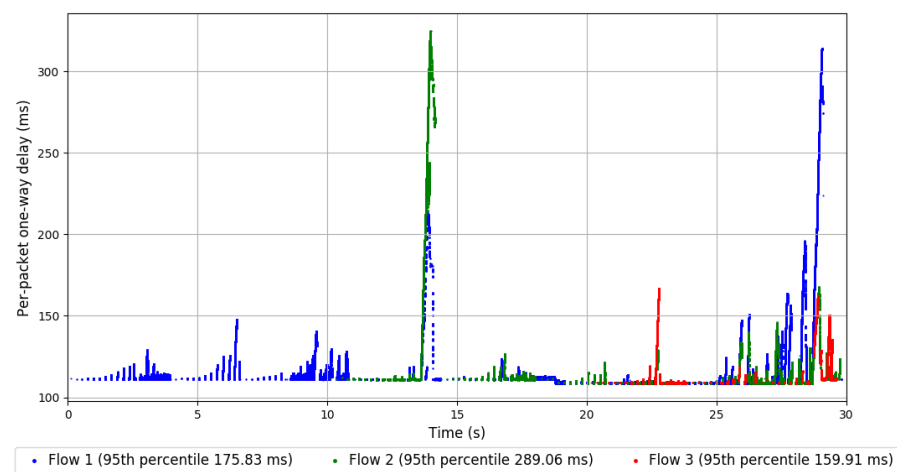
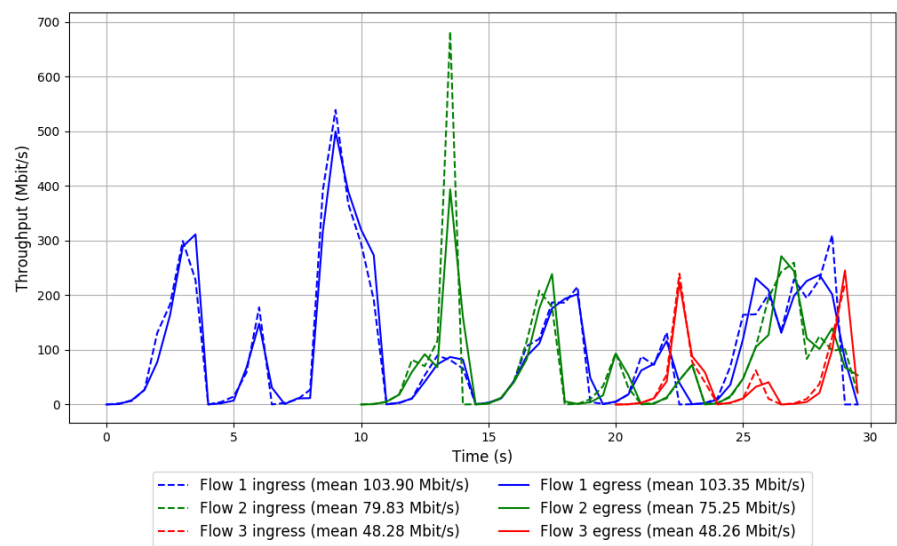
-- Flow 3:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 159.912 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 20:18:32

End at: 2017-11-16 20:19:02

Below is generated by plot.py at 2017-11-16 23:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.42 Mbit/s

95th percentile per-packet one-way delay: 201.181 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 198.42 Mbit/s

95th percentile per-packet one-way delay: 217.582 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 144.84 Mbit/s

95th percentile per-packet one-way delay: 164.062 ms

Loss rate: 0.10%

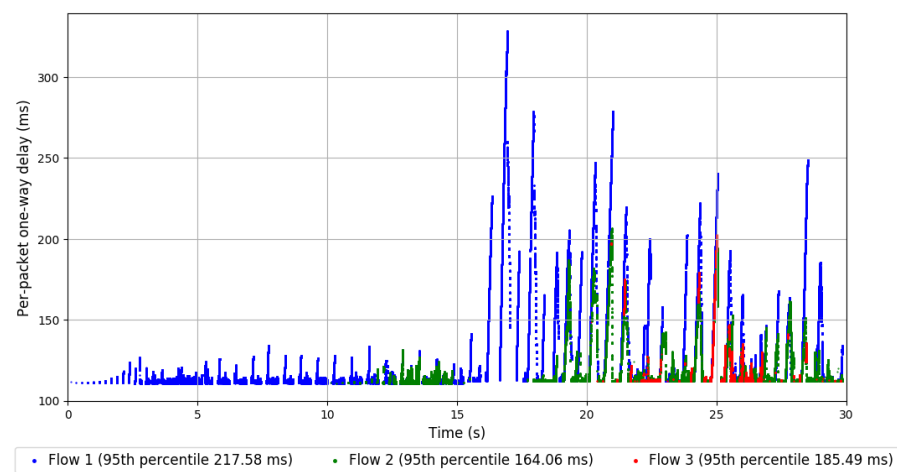
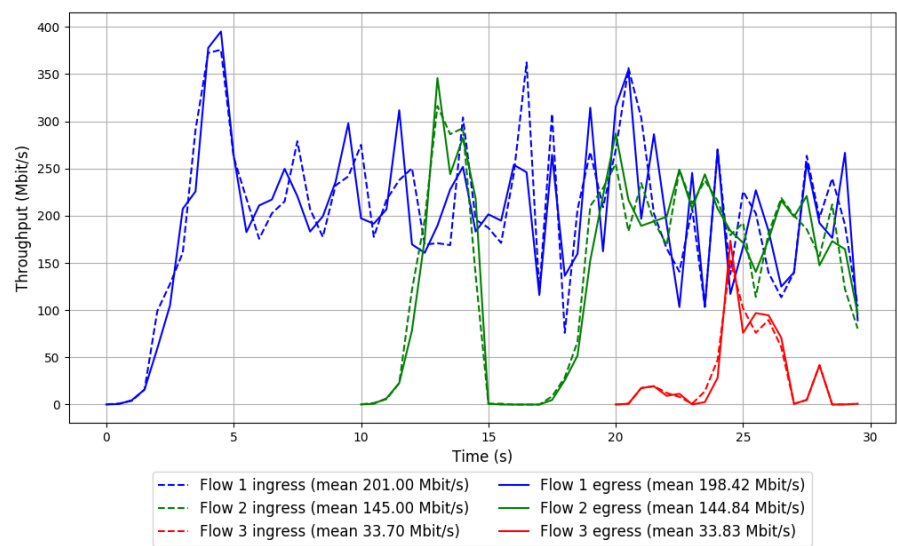
-- Flow 3:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 185.489 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-16 20:32:14

End at: 2017-11-16 20:32:44

Below is generated by plot.py at 2017-11-16 23:14:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.93 Mbit/s

95th percentile per-packet one-way delay: 244.629 ms

Loss rate: 4.96%

-- Flow 1:

Average throughput: 248.55 Mbit/s

95th percentile per-packet one-way delay: 252.513 ms

Loss rate: 6.01%

-- Flow 2:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 169.727 ms

Loss rate: 0.02%

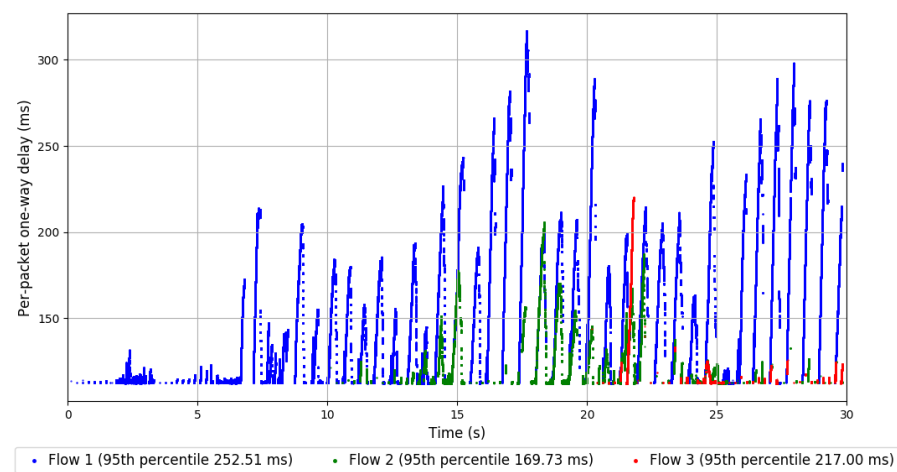
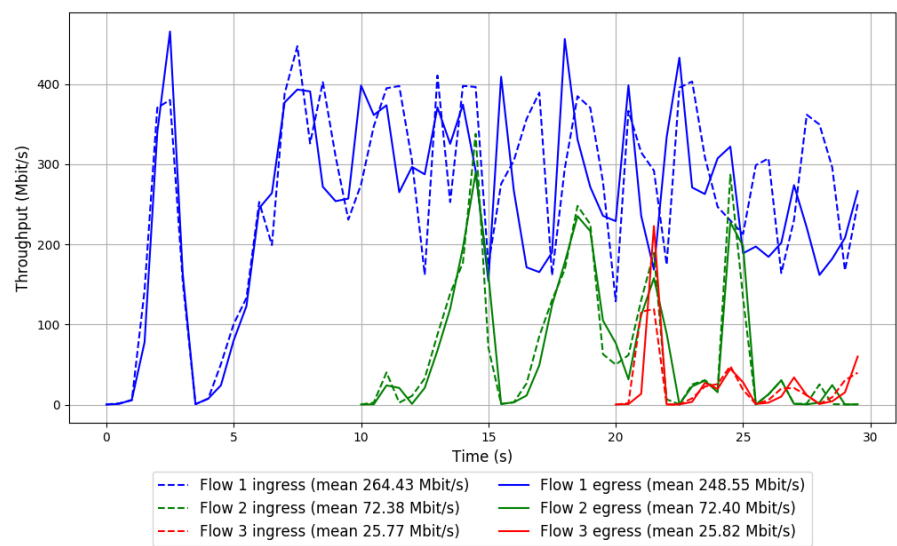
-- Flow 3:

Average throughput: 25.82 Mbit/s

95th percentile per-packet one-way delay: 217.004 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 20:46:03

End at: 2017-11-16 20:46:33

Below is generated by plot.py at 2017-11-16 23:15:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.72 Mbit/s

95th percentile per-packet one-way delay: 247.929 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 241.37 Mbit/s

95th percentile per-packet one-way delay: 248.584 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 82.18 Mbit/s

95th percentile per-packet one-way delay: 222.202 ms

Loss rate: 0.01%

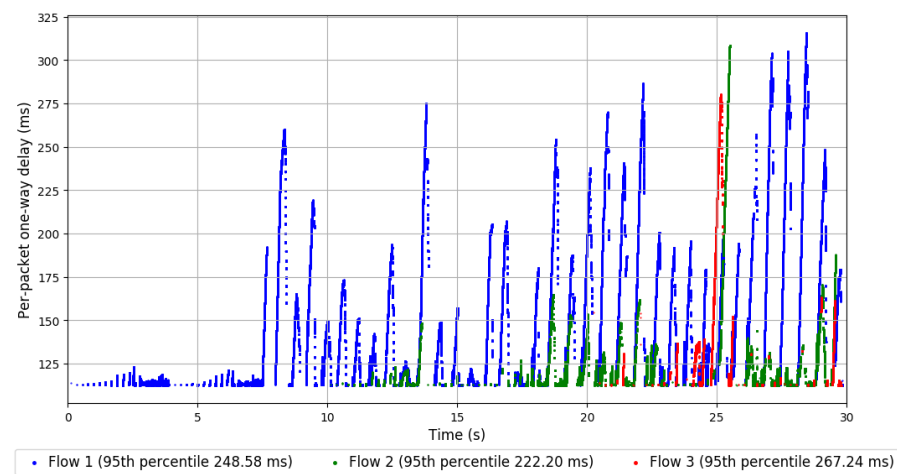
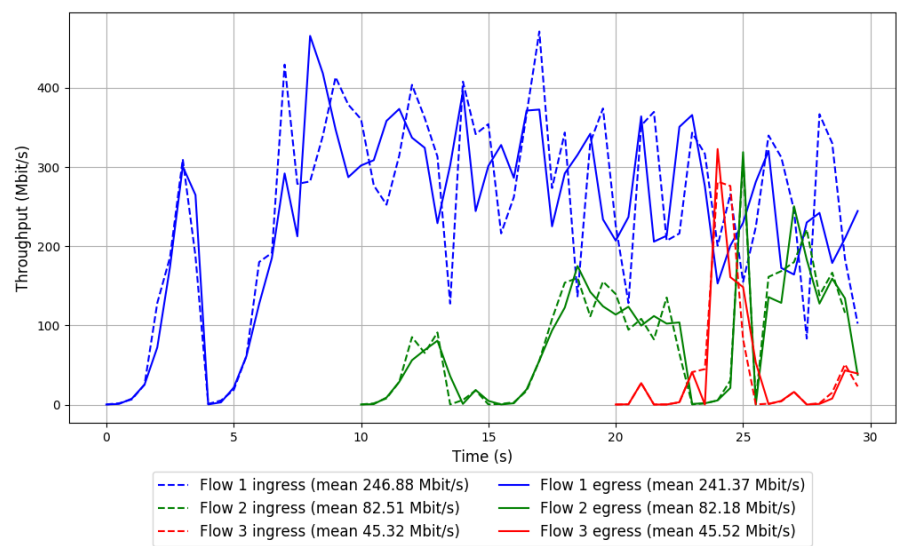
-- Flow 3:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 267.235 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-16 20:59:33

End at: 2017-11-16 21:00:03

Below is generated by plot.py at 2017-11-16 23:15:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.67 Mbit/s

95th percentile per-packet one-way delay: 131.020 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 112.05 Mbit/s

95th percentile per-packet one-way delay: 130.654 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 125.555 ms

Loss rate: 0.01%

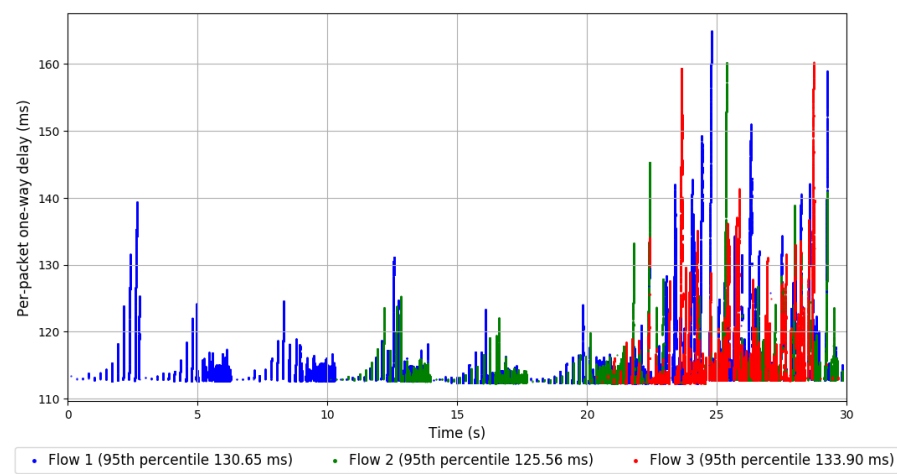
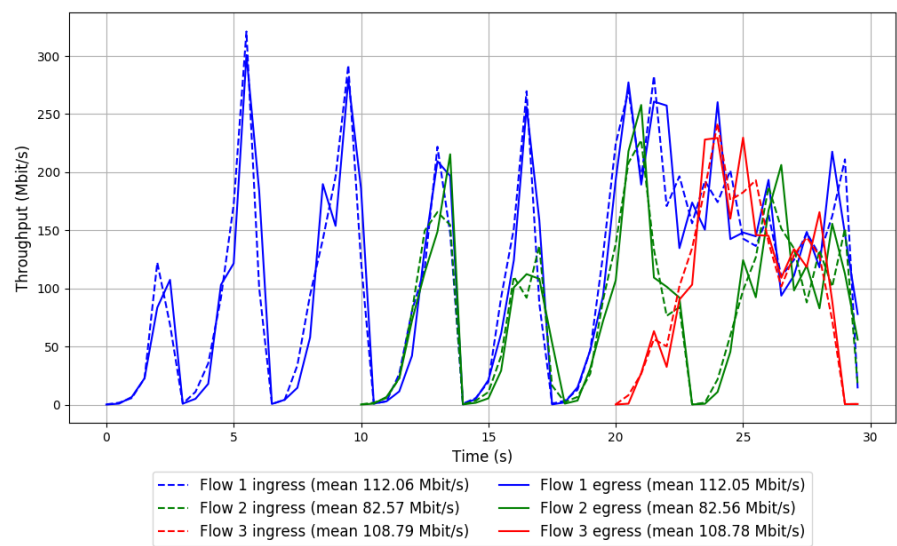
-- Flow 3:

Average throughput: 108.78 Mbit/s

95th percentile per-packet one-way delay: 133.897 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-16 21:12:41

End at: 2017-11-16 21:13:11

Below is generated by plot.py at 2017-11-16 23:17:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.18 Mbit/s

95th percentile per-packet one-way delay: 156.665 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 234.52 Mbit/s

95th percentile per-packet one-way delay: 156.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 185.374 ms

Loss rate: 0.01%

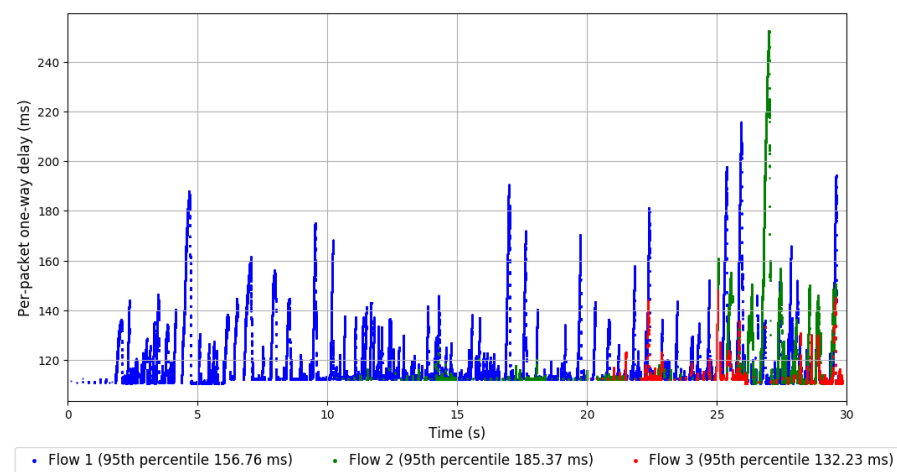
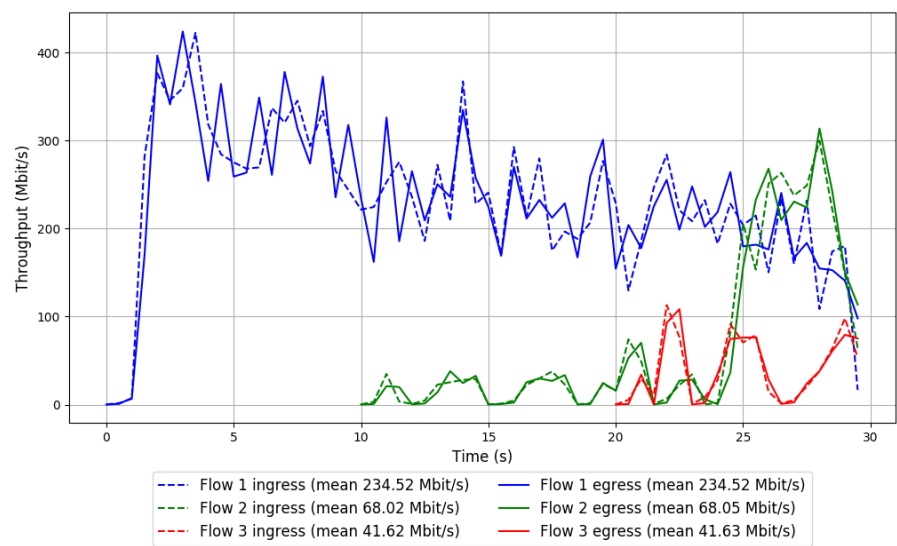
-- Flow 3:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 132.229 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 21:26:34

End at: 2017-11-16 21:27:04

Below is generated by plot.py at 2017-11-16 23:17:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.12 Mbit/s

95th percentile per-packet one-way delay: 156.545 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 79.36 Mbit/s

95th percentile per-packet one-way delay: 167.790 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 148.555 ms

Loss rate: 0.00%

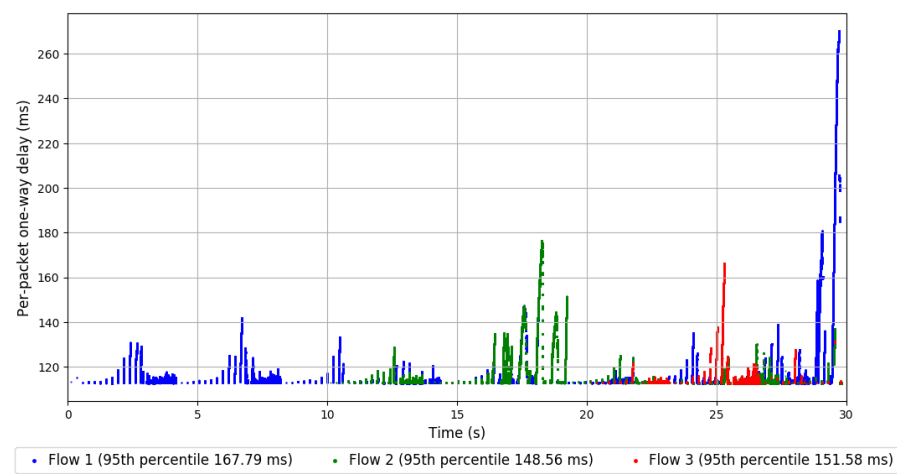
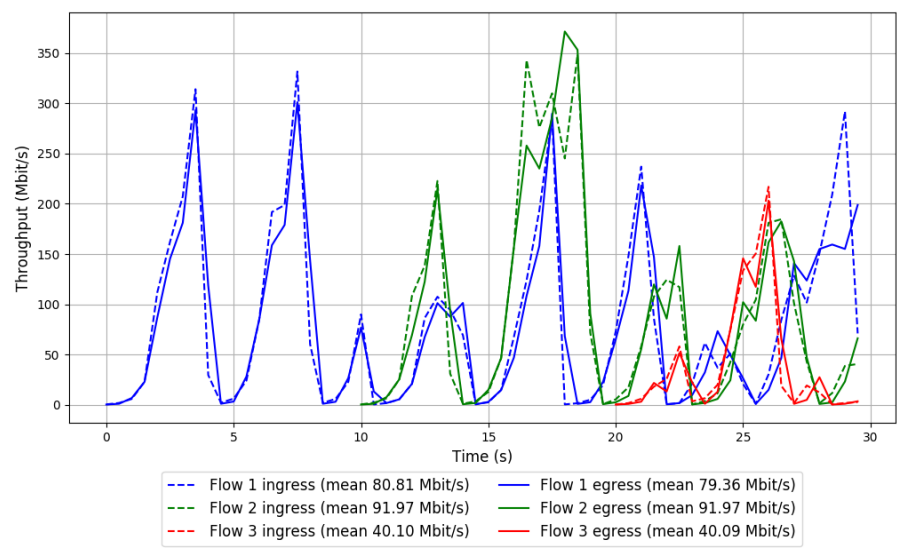
-- Flow 3:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 151.584 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-16 19:33:10

End at: 2017-11-16 19:33:40

Below is generated by plot.py at 2017-11-16 23:17:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.78 Mbit/s

95th percentile per-packet one-way delay: 112.368 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 112.339 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 112.634 ms

Loss rate: 0.00%

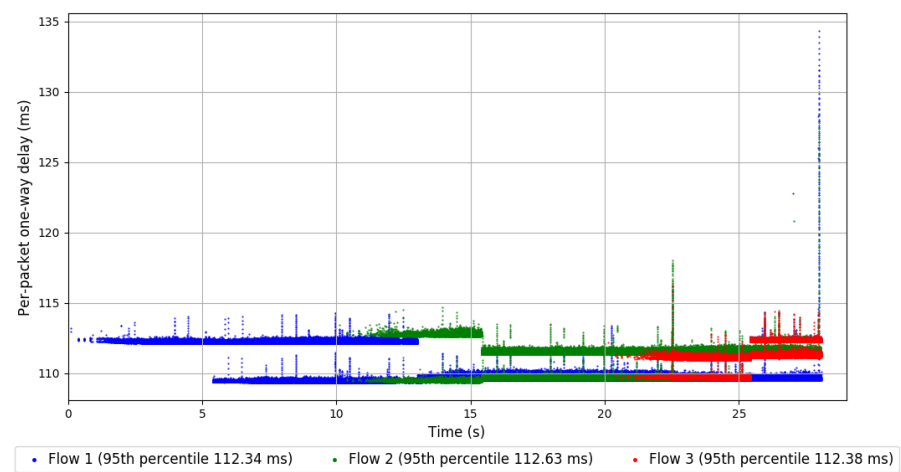
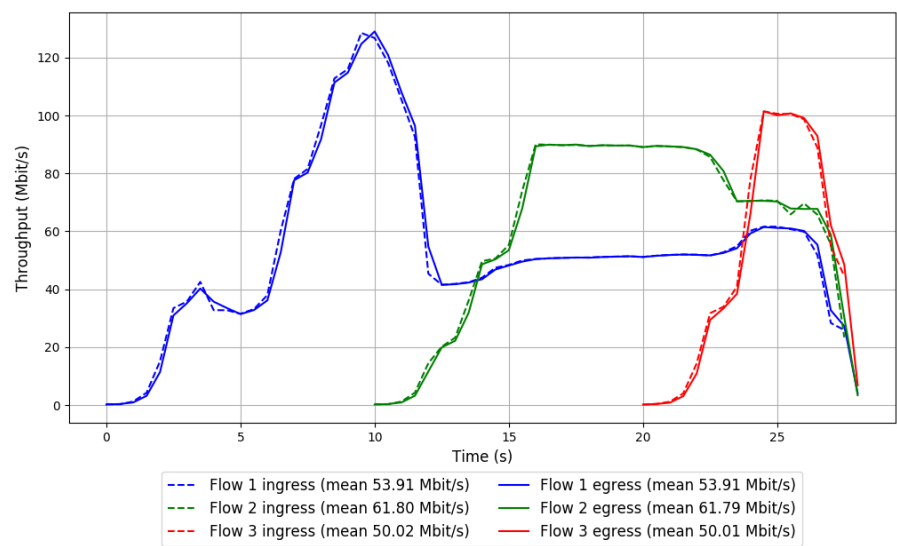
-- Flow 3:

Average throughput: 50.01 Mbit/s

95th percentile per-packet one-way delay: 112.377 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 19:46:22

End at: 2017-11-16 19:46:52

Below is generated by plot.py at 2017-11-16 23:17:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.45 Mbit/s

95th percentile per-packet one-way delay: 112.732 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 112.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 110.566 ms

Loss rate: 0.00%

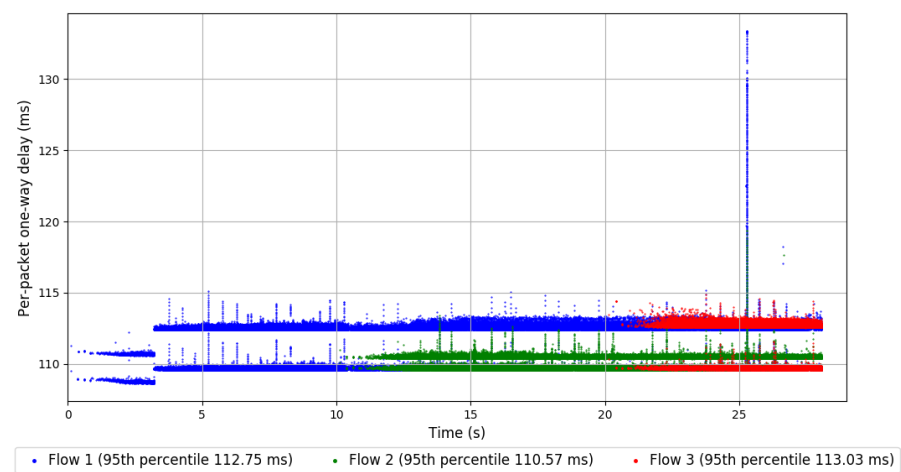
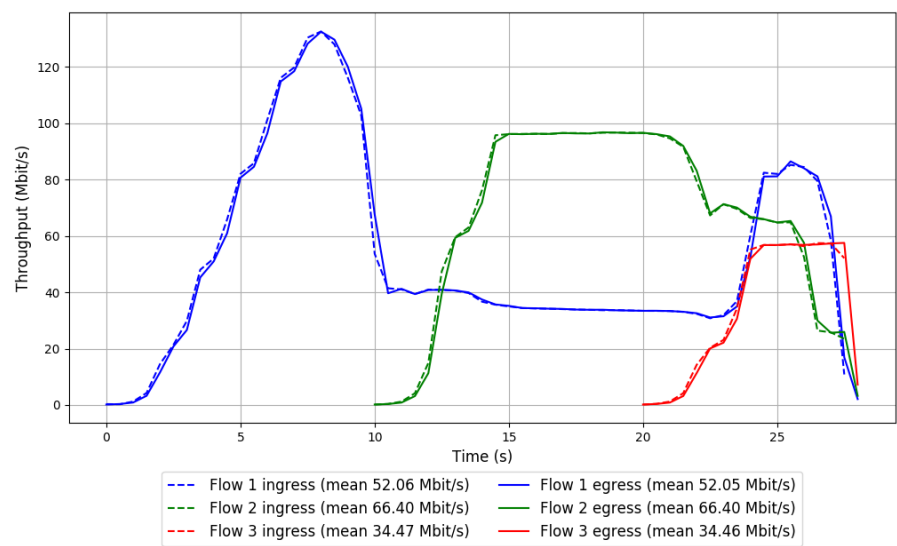
-- Flow 3:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 113.027 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 20:00:11

End at: 2017-11-16 20:00:41

Below is generated by plot.py at 2017-11-16 23:17:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.07 Mbit/s

95th percentile per-packet one-way delay: 112.872 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.68 Mbit/s

95th percentile per-packet one-way delay: 112.422 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 113.004 ms

Loss rate: 0.00%

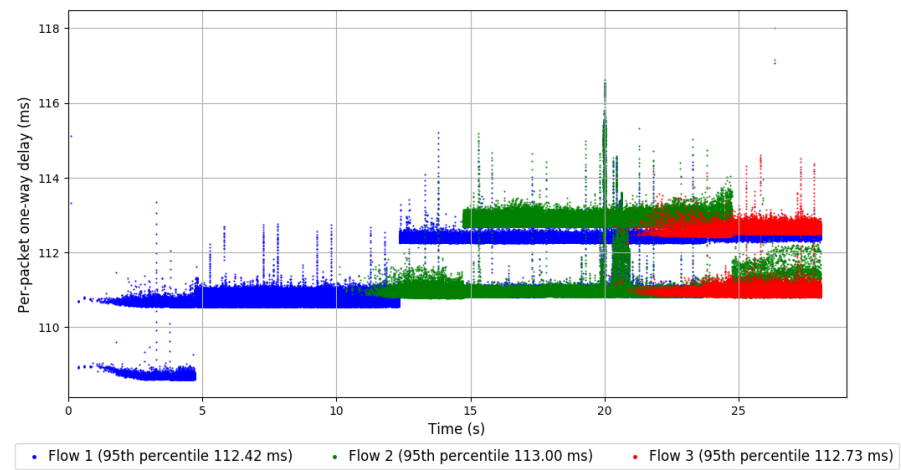
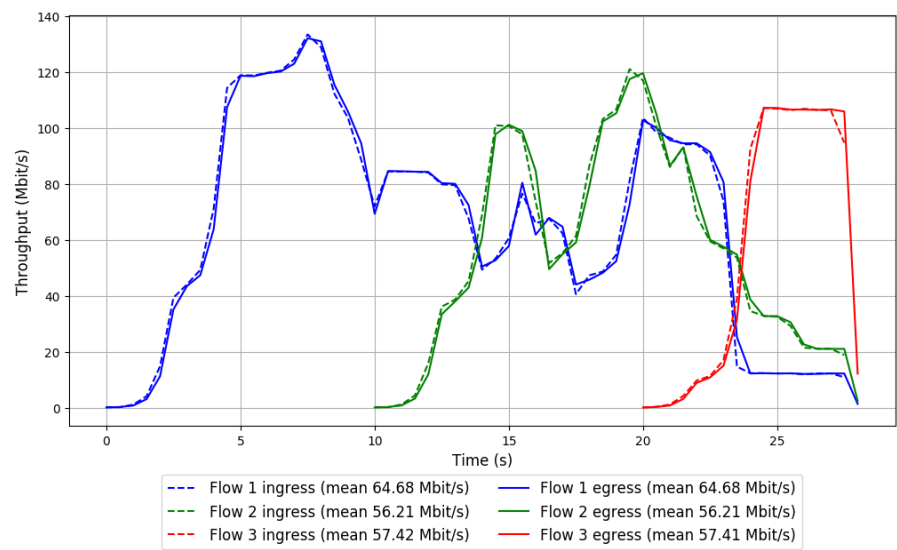
-- Flow 3:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 112.734 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-16 20:13:28

End at: 2017-11-16 20:13:58

Below is generated by plot.py at 2017-11-16 23:18:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.27 Mbit/s

95th percentile per-packet one-way delay: 112.460 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.77 Mbit/s

95th percentile per-packet one-way delay: 112.434 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.27 Mbit/s

95th percentile per-packet one-way delay: 112.400 ms

Loss rate: 0.00%

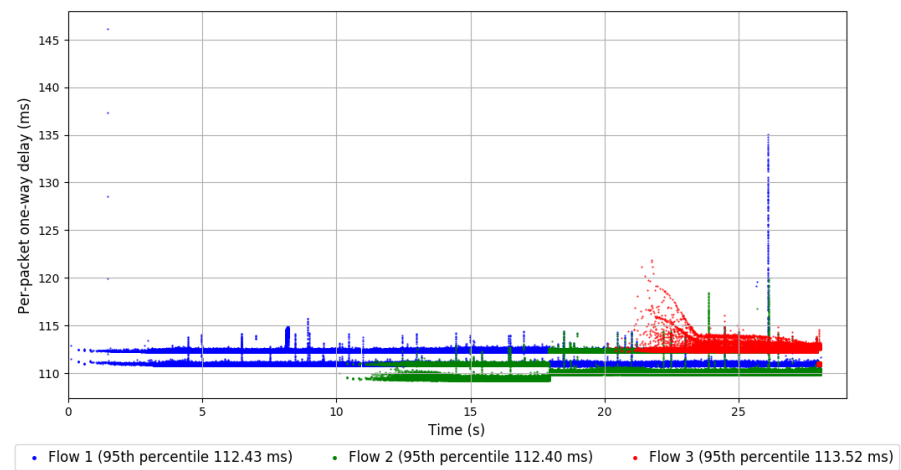
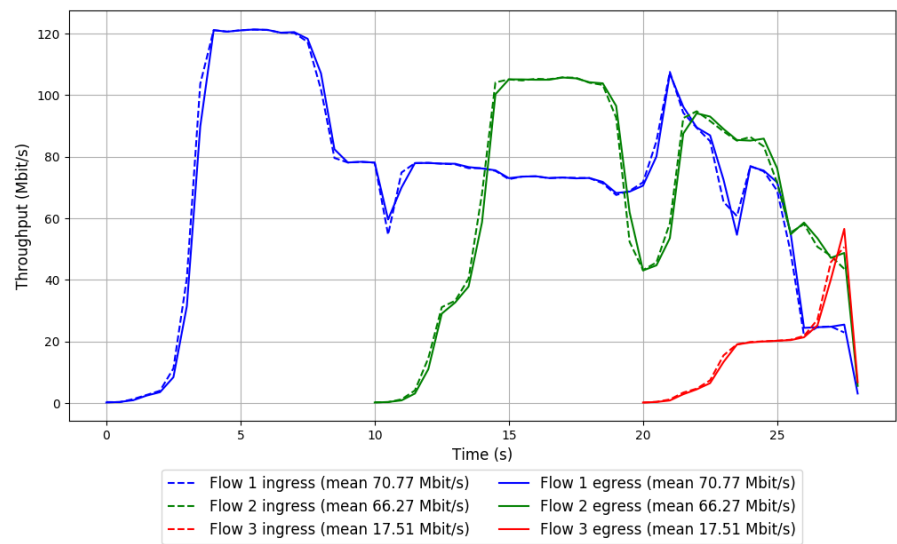
-- Flow 3:

Average throughput: 17.51 Mbit/s

95th percentile per-packet one-way delay: 113.524 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 20:27:07

End at: 2017-11-16 20:27:37

Below is generated by plot.py at 2017-11-16 23:18:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.93 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.26 Mbit/s

95th percentile per-packet one-way delay: 112.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.30 Mbit/s

95th percentile per-packet one-way delay: 112.480 ms

Loss rate: 0.00%

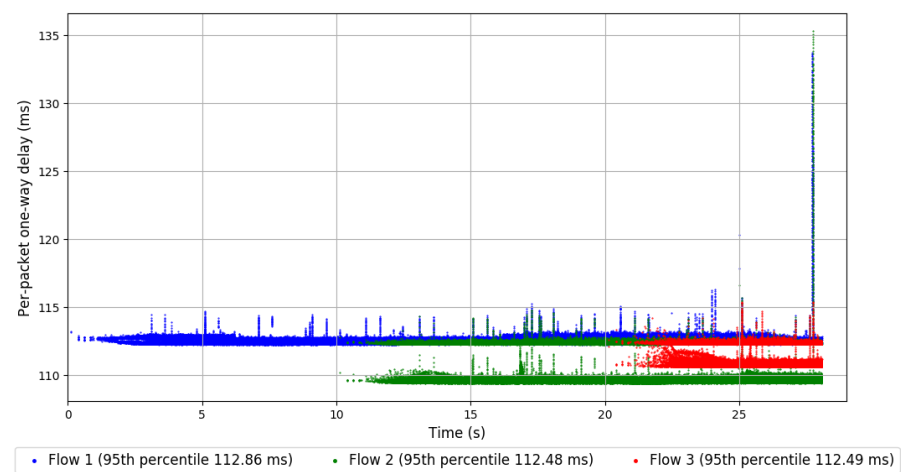
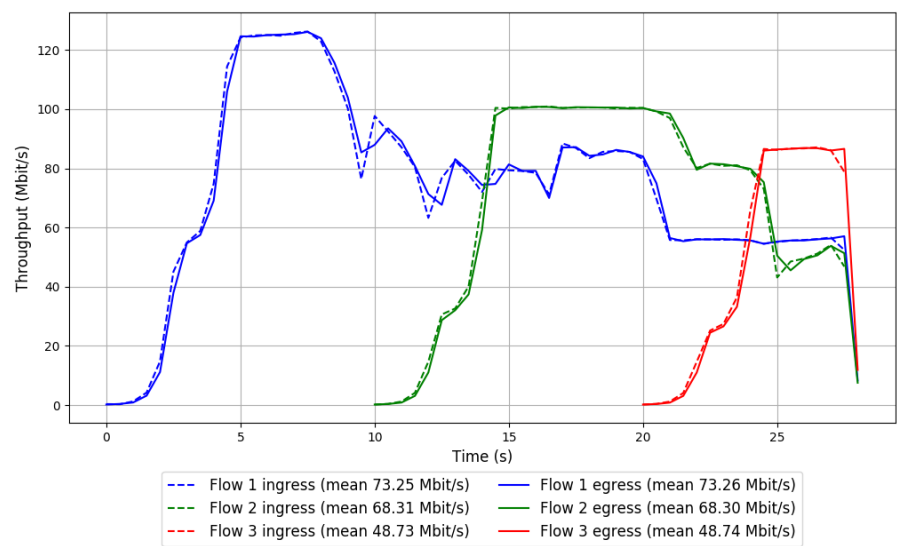
-- Flow 3:

Average throughput: 48.74 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-16 20:40:57

End at: 2017-11-16 20:41:27

Below is generated by plot.py at 2017-11-16 23:18:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.40 Mbit/s

95th percentile per-packet one-way delay: 112.700 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 112.685 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.91 Mbit/s

95th percentile per-packet one-way delay: 112.701 ms

Loss rate: 0.00%

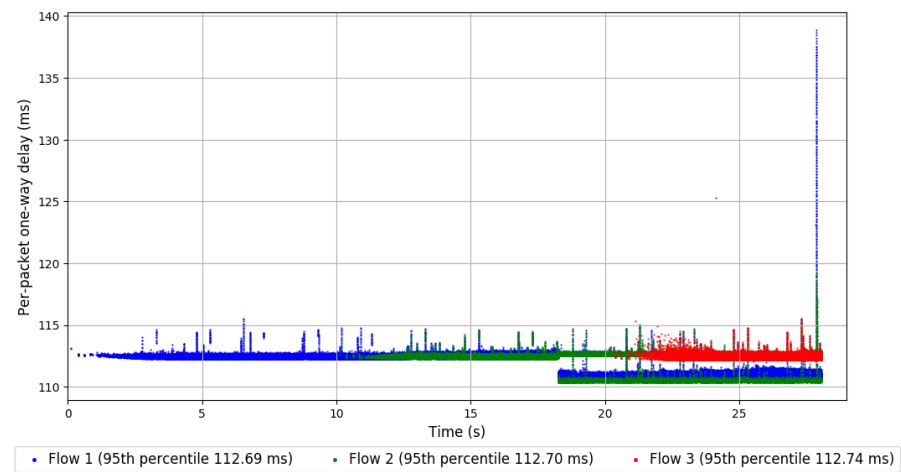
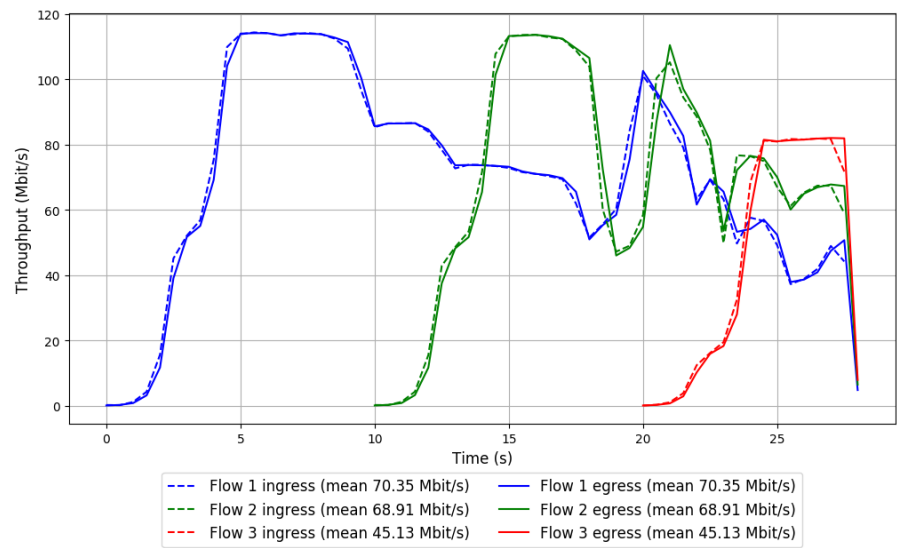
-- Flow 3:

Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 112.744 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 20:54:27

End at: 2017-11-16 20:54:57

Below is generated by plot.py at 2017-11-16 23:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.13 Mbit/s

95th percentile per-packet one-way delay: 112.717 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 112.700 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 112.722 ms

Loss rate: 0.00%

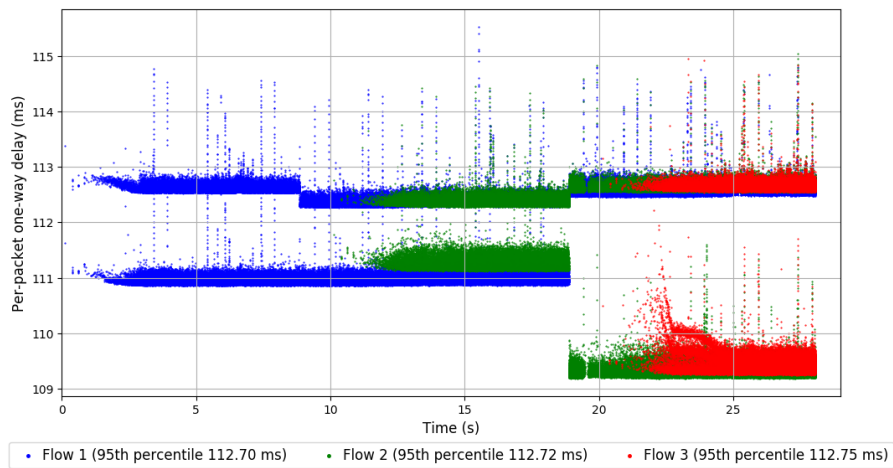
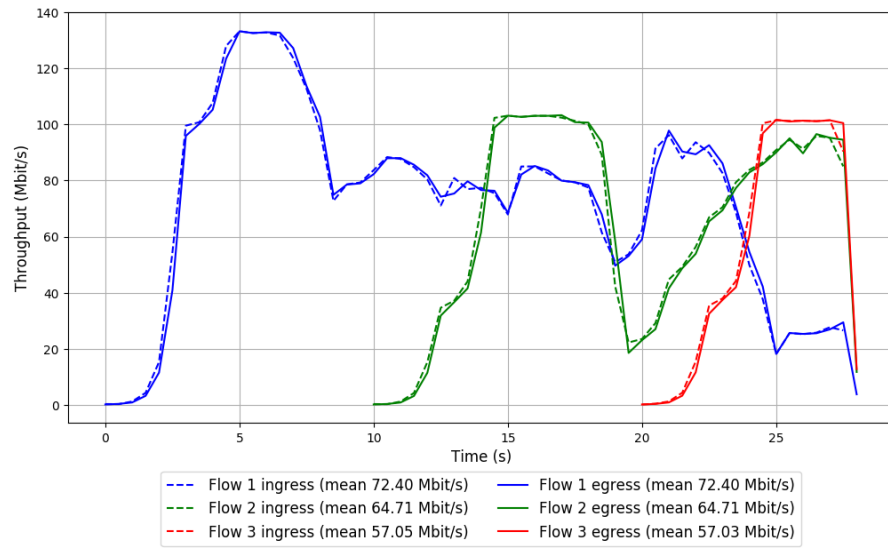
-- Flow 3:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 112.754 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 21:07:37

End at: 2017-11-16 21:08:07

Below is generated by plot.py at 2017-11-16 23:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.31 Mbit/s

95th percentile per-packet one-way delay: 112.502 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.05 Mbit/s

95th percentile per-packet one-way delay: 112.500 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 112.505 ms

Loss rate: 0.00%

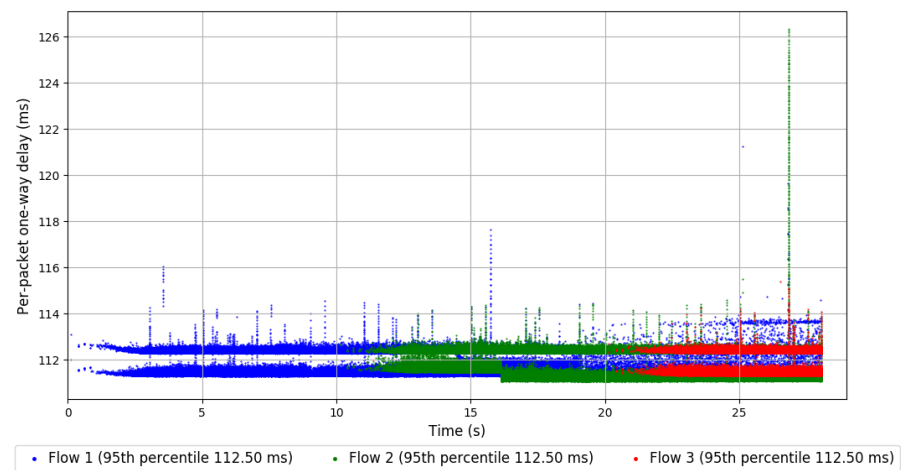
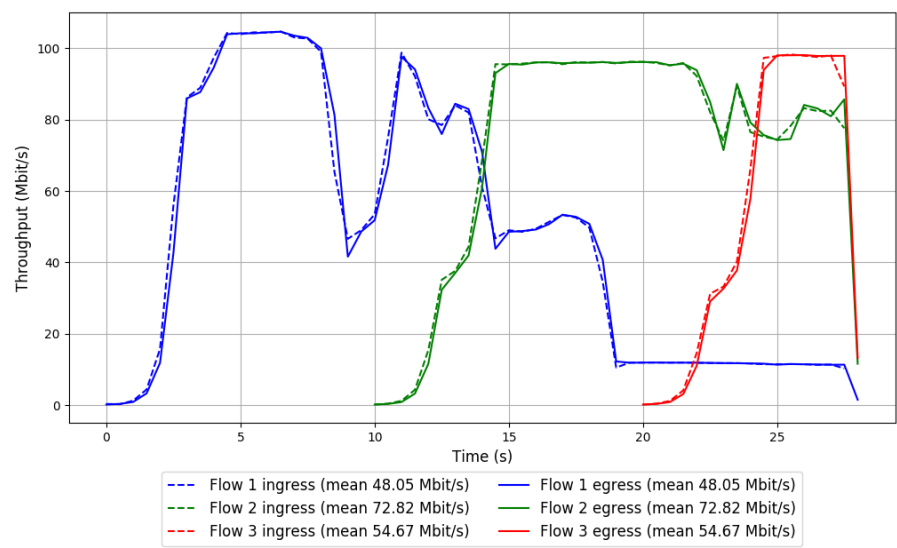
-- Flow 3:

Average throughput: 54.67 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 21:21:28

End at: 2017-11-16 21:21:58

Below is generated by plot.py at 2017-11-16 23:19:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.68 Mbit/s

95th percentile per-packet one-way delay: 112.842 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.62 Mbit/s

95th percentile per-packet one-way delay: 112.862 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.53 Mbit/s

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

Loss rate: 0.01%

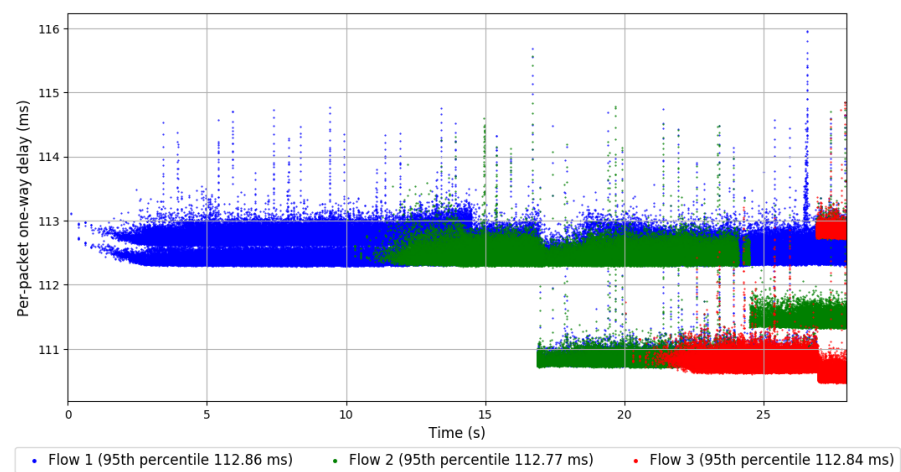
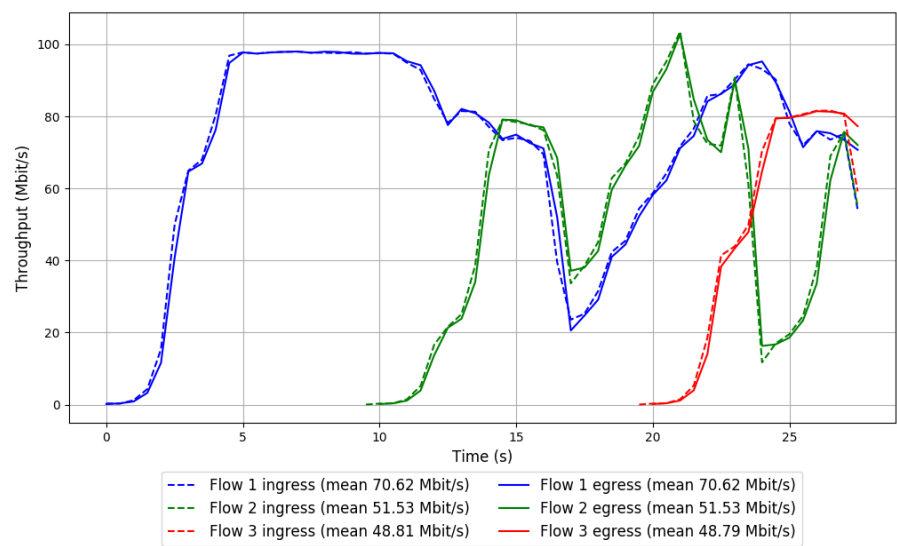
-- Flow 3:

Average throughput: 48.79 Mbit/s

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

Loss rate: 0.02%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 21:34:37

End at: 2017-11-16 21:35:07

Below is generated by plot.py at 2017-11-16 23:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.74 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.42 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 110.902 ms

Loss rate: 0.00%

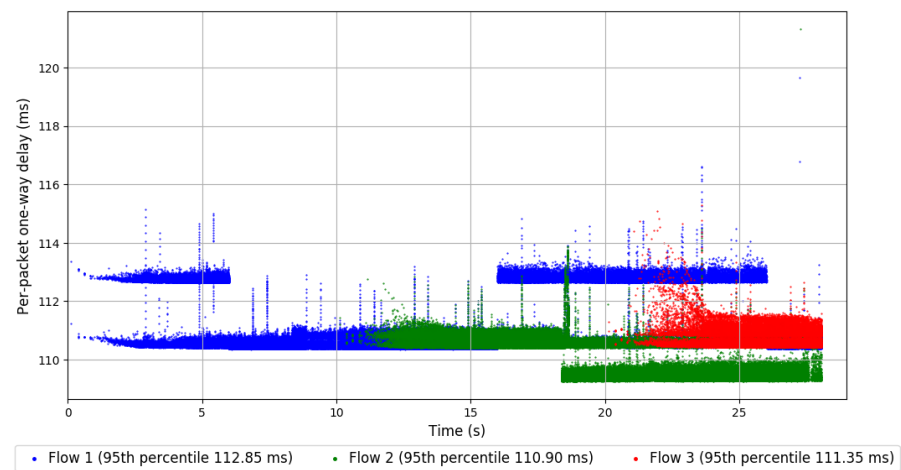
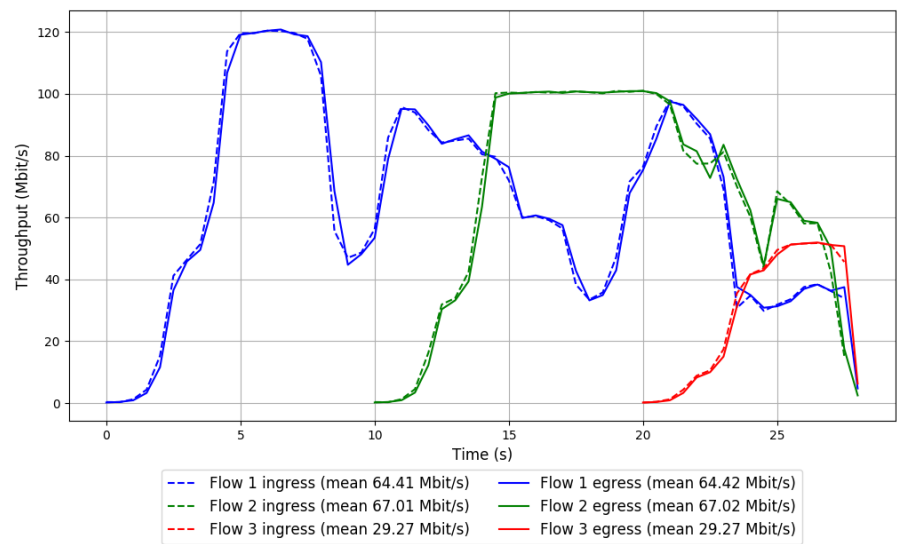
-- Flow 3:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 111.351 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

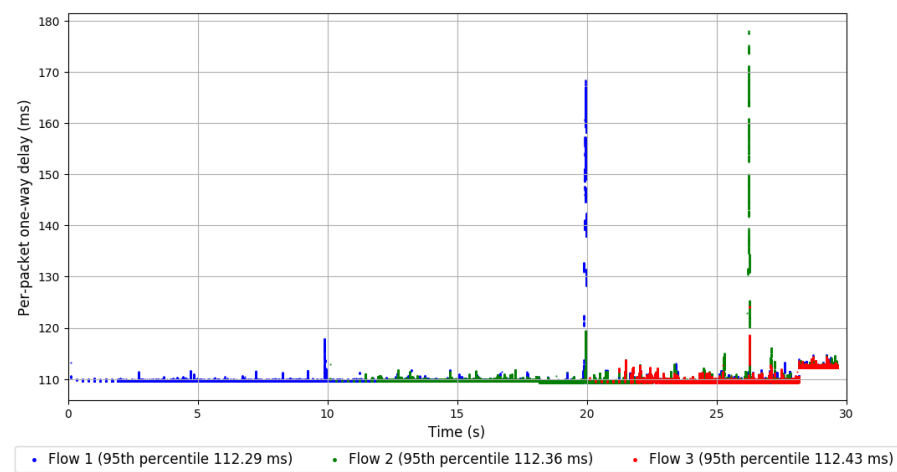
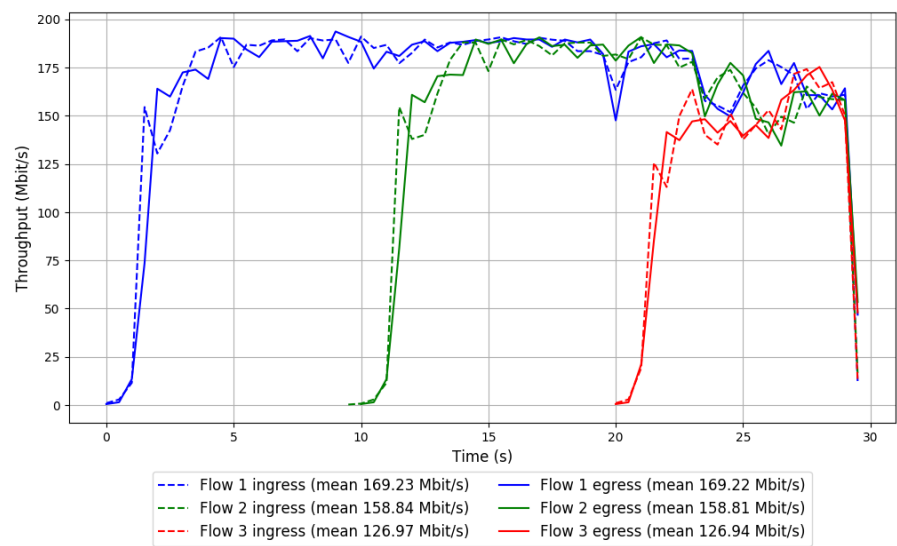


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 19:30:19
End at: 2017-11-16 19:30:49

# Below is generated by plot.py at 2017-11-16 23:22:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.28 Mbit/s
95th percentile per-packet one-way delay: 112.348 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.22 Mbit/s
95th percentile per-packet one-way delay: 112.288 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 158.81 Mbit/s
95th percentile per-packet one-way delay: 112.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 126.94 Mbit/s
95th percentile per-packet one-way delay: 112.432 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-16 19:43:30

End at: 2017-11-16 19:44:00

Below is generated by plot.py at 2017-11-16 23:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.13 Mbit/s

95th percentile per-packet one-way delay: 112.324 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.14 Mbit/s

95th percentile per-packet one-way delay: 112.348 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.40 Mbit/s

95th percentile per-packet one-way delay: 110.195 ms

Loss rate: 0.00%

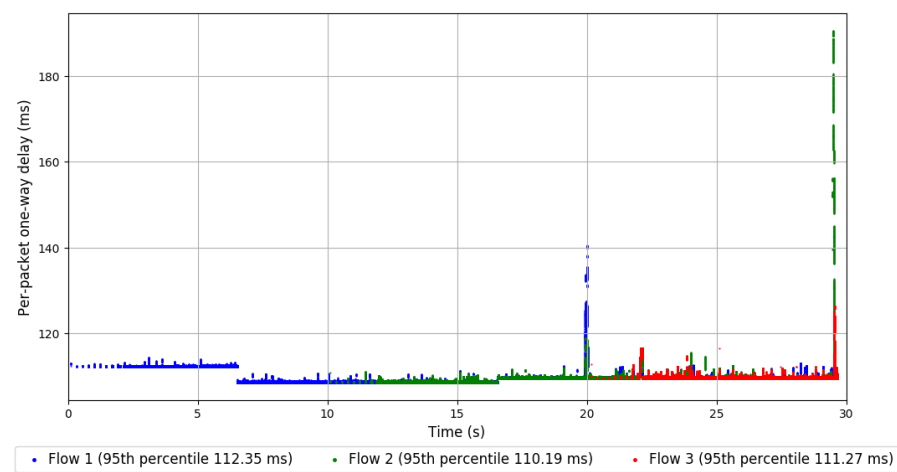
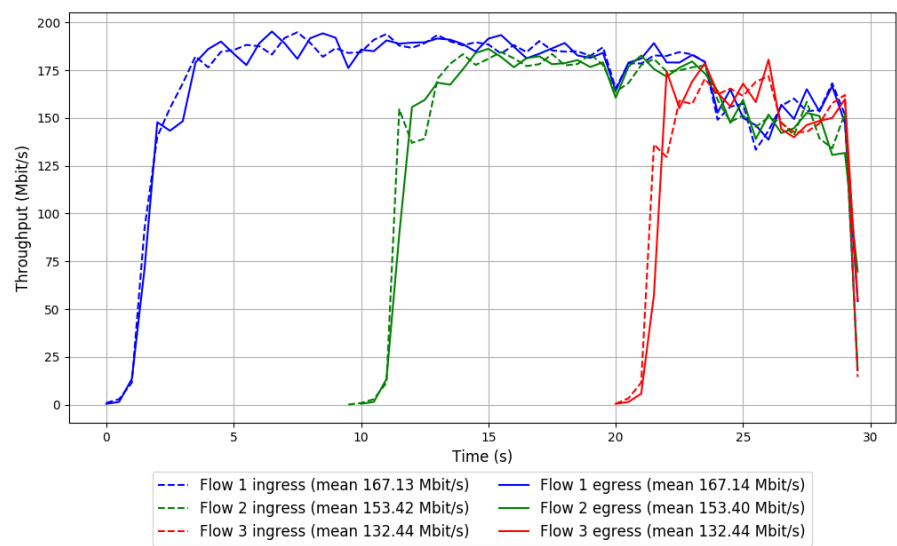
-- Flow 3:

Average throughput: 132.44 Mbit/s

95th percentile per-packet one-way delay: 111.268 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 19:57:19

End at: 2017-11-16 19:57:49

Below is generated by plot.py at 2017-11-16 23:23:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.66 Mbit/s

95th percentile per-packet one-way delay: 112.317 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.92 Mbit/s

95th percentile per-packet one-way delay: 112.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.26 Mbit/s

95th percentile per-packet one-way delay: 111.050 ms

Loss rate: 0.00%

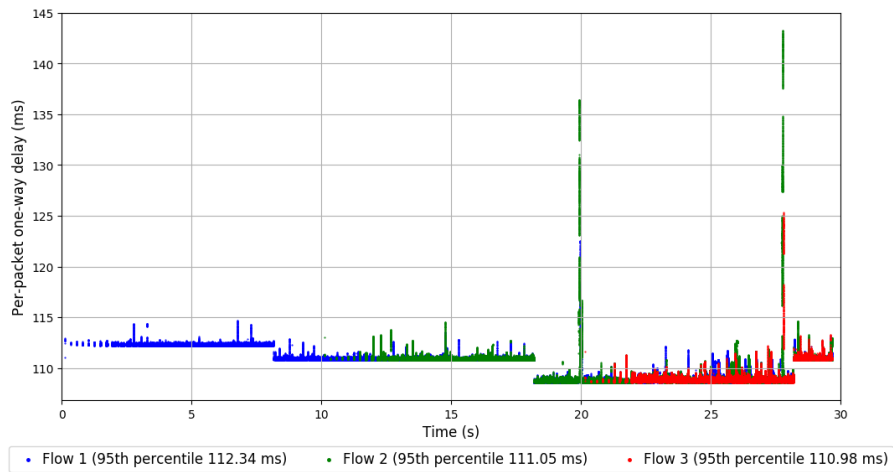
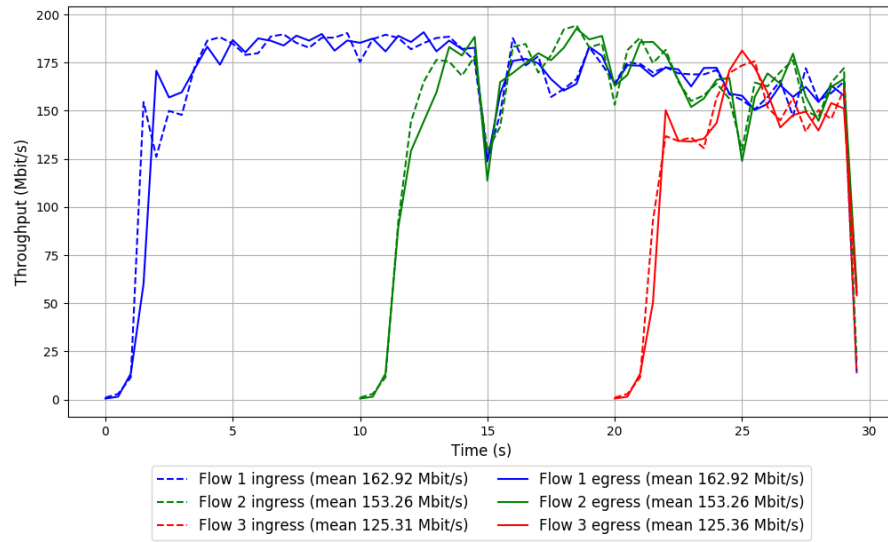
-- Flow 3:

Average throughput: 125.36 Mbit/s

95th percentile per-packet one-way delay: 110.984 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 20:10:36

End at: 2017-11-16 20:11:06

Below is generated by plot.py at 2017-11-16 23:23:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.45 Mbit/s

95th percentile per-packet one-way delay: 112.724 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 160.73 Mbit/s

95th percentile per-packet one-way delay: 112.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.98 Mbit/s

95th percentile per-packet one-way delay: 112.814 ms

Loss rate: 0.00%

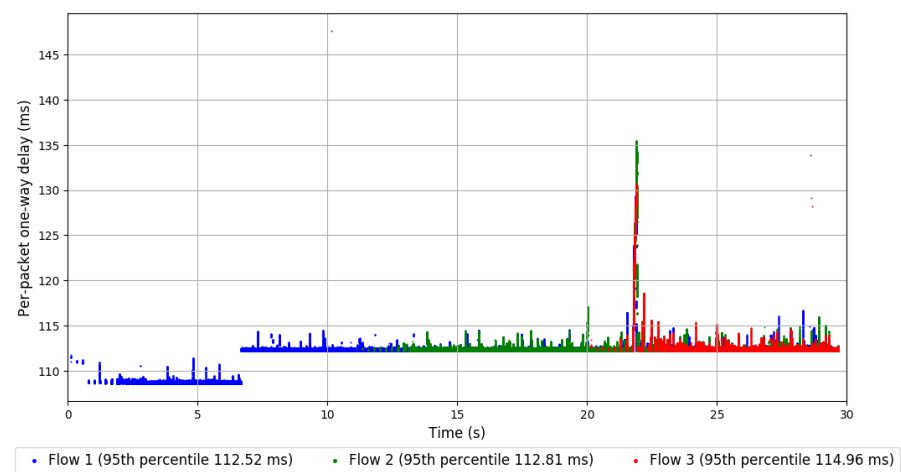
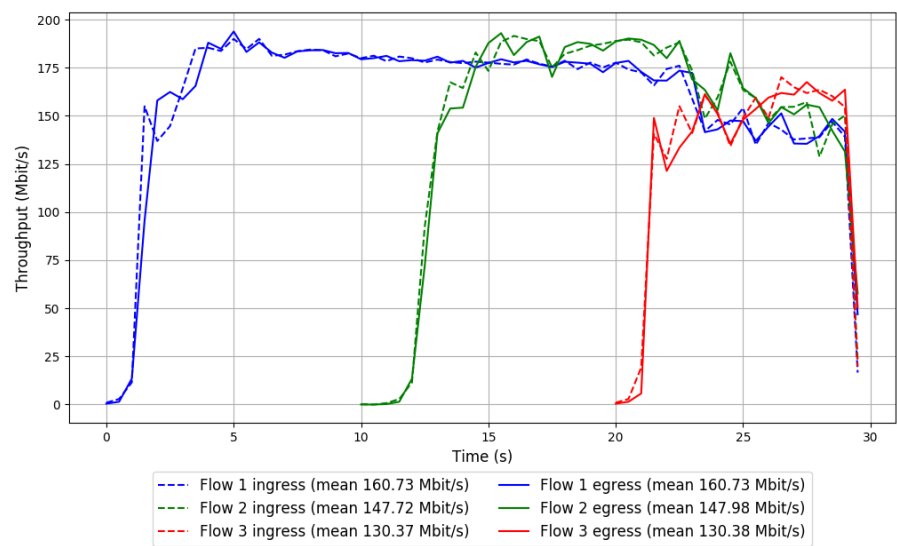
-- Flow 3:

Average throughput: 130.38 Mbit/s

95th percentile per-packet one-way delay: 114.963 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 20:24:15

End at: 2017-11-16 20:24:45

Below is generated by plot.py at 2017-11-16 23:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.96 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.09 Mbit/s

95th percentile per-packet one-way delay: 112.703 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 157.72 Mbit/s

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

Loss rate: 0.00%

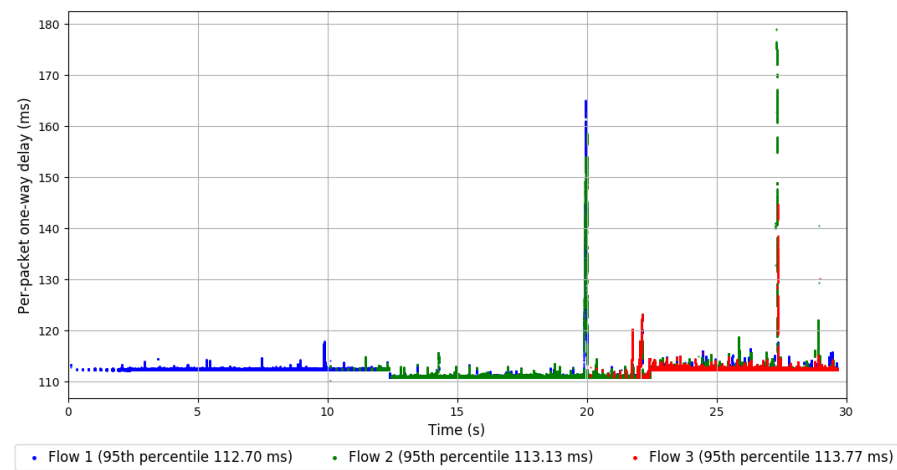
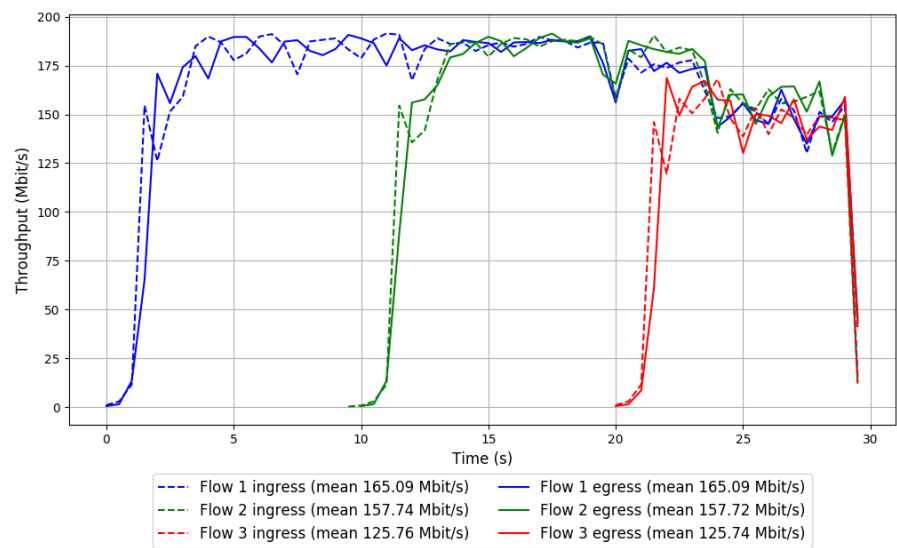
-- Flow 3:

Average throughput: 125.74 Mbit/s

95th percentile per-packet one-way delay: 113.769 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 20:38:05

End at: 2017-11-16 20:38:35

Below is generated by plot.py at 2017-11-16 23:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.43 Mbit/s

95th percentile per-packet one-way delay: 112.977 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 164.87 Mbit/s

95th percentile per-packet one-way delay: 112.860 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.46 Mbit/s

95th percentile per-packet one-way delay: 112.961 ms

Loss rate: 0.01%

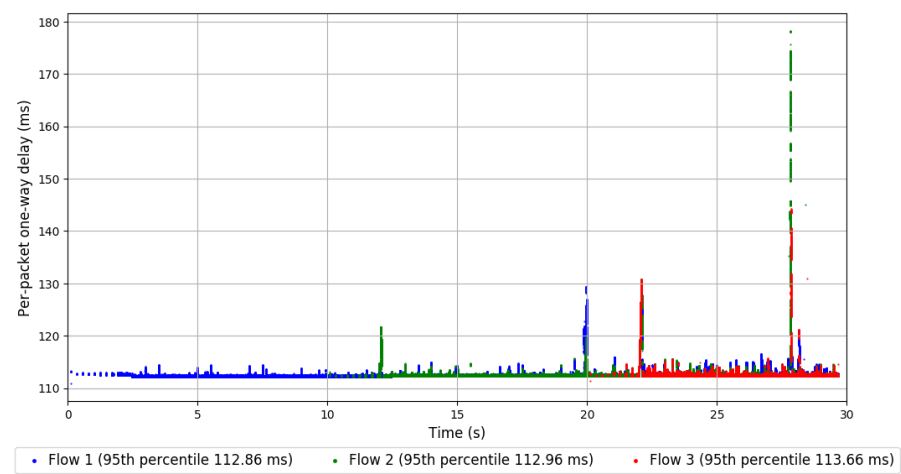
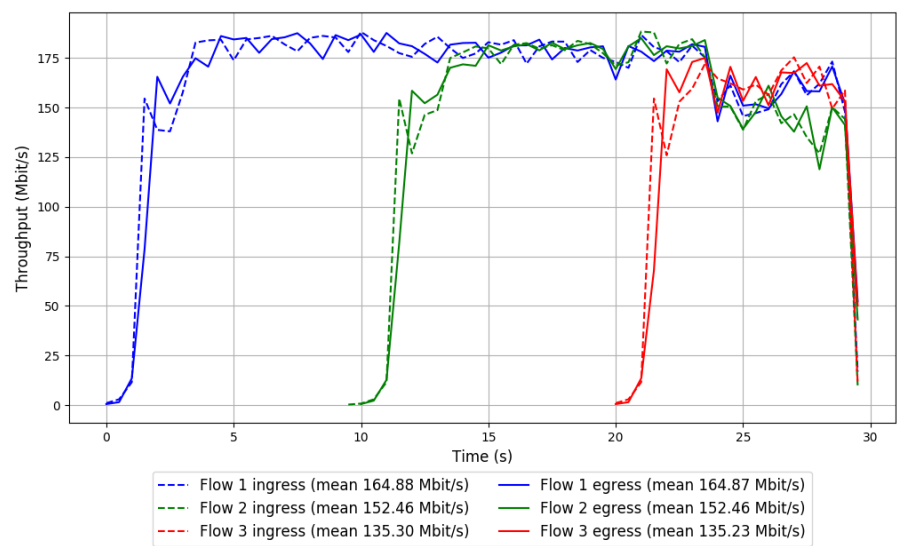
-- Flow 3:

Average throughput: 135.23 Mbit/s

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

Loss rate: 0.02%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 20:51:36

End at: 2017-11-16 20:52:06

Below is generated by plot.py at 2017-11-16 23:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.28 Mbit/s

95th percentile per-packet one-way delay: 113.147 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.31 Mbit/s

95th percentile per-packet one-way delay: 112.924 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.98 Mbit/s

95th percentile per-packet one-way delay: 113.198 ms

Loss rate: 0.00%

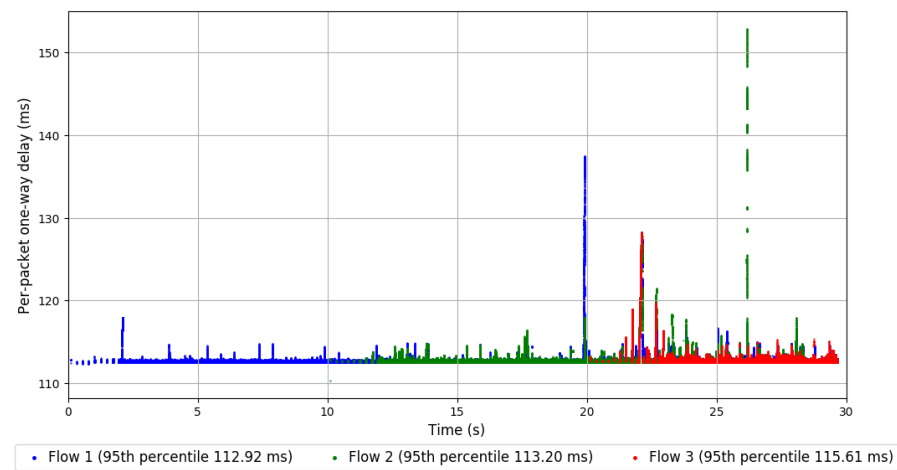
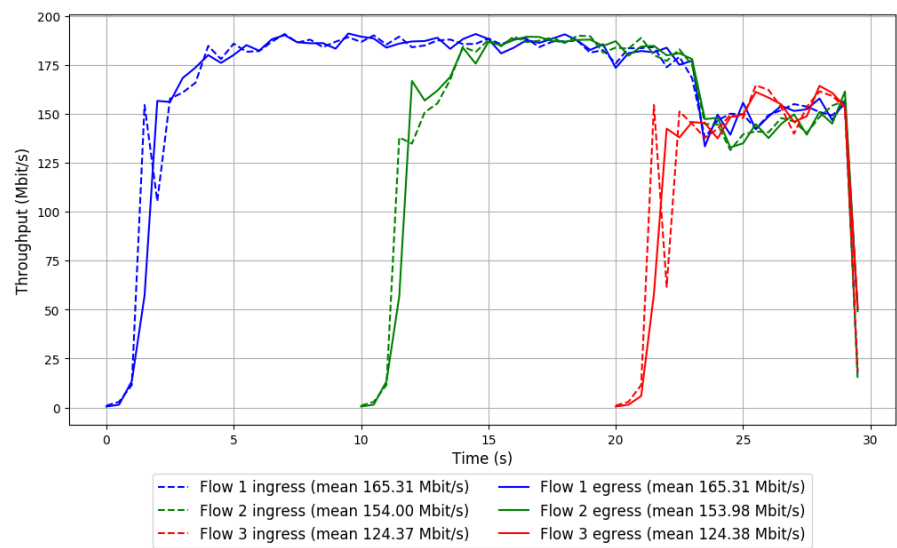
-- Flow 3:

Average throughput: 124.38 Mbit/s

95th percentile per-packet one-way delay: 115.608 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 21:04:46

End at: 2017-11-16 21:05:16

Below is generated by plot.py at 2017-11-16 23:25:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.93 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 161.37 Mbit/s

95th percentile per-packet one-way delay: 113.068 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 151.16 Mbit/s

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

Loss rate: 0.02%

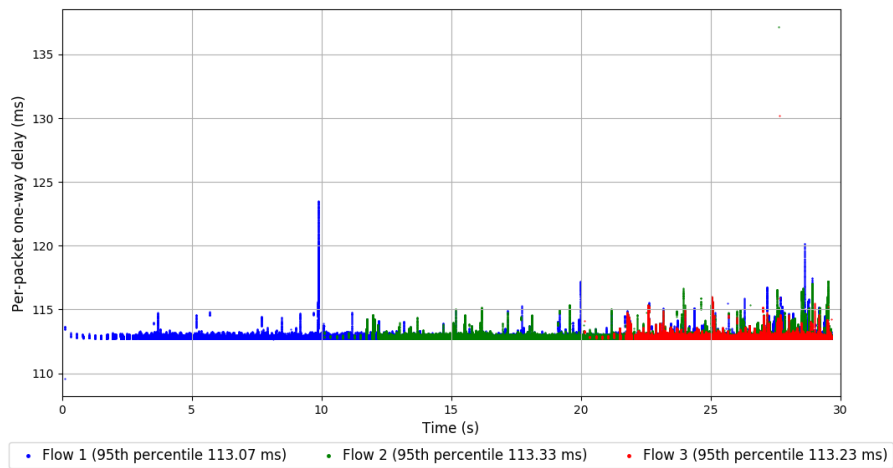
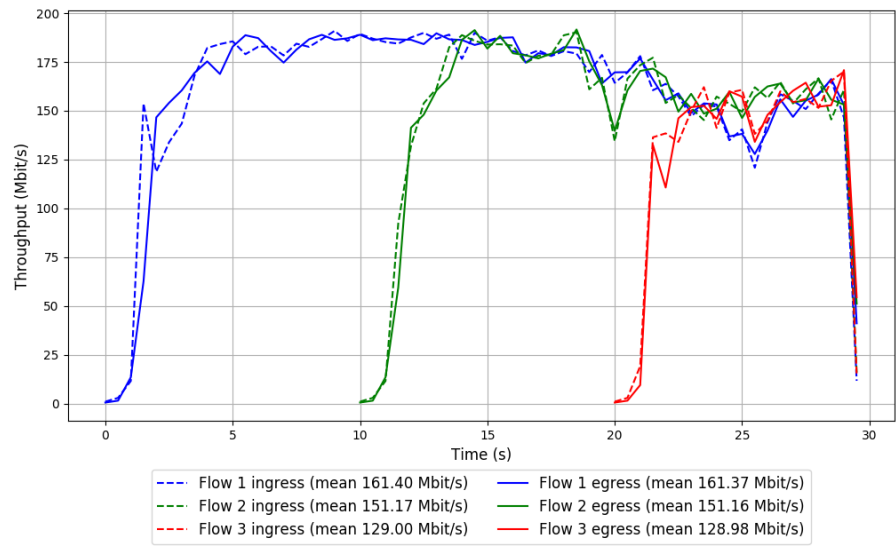
-- Flow 3:

Average throughput: 128.98 Mbit/s

95th percentile per-packet one-way delay: 113.234 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 21:18:37

End at: 2017-11-16 21:19:07

Below is generated by plot.py at 2017-11-16 23:28:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.60 Mbit/s

95th percentile per-packet one-way delay: 112.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.95 Mbit/s

95th percentile per-packet one-way delay: 112.624 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.83 Mbit/s

95th percentile per-packet one-way delay: 112.797 ms

Loss rate: 0.00%

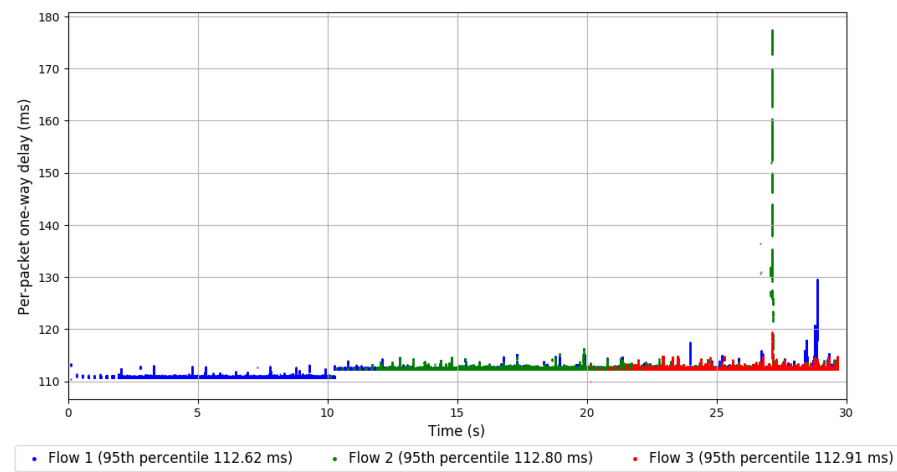
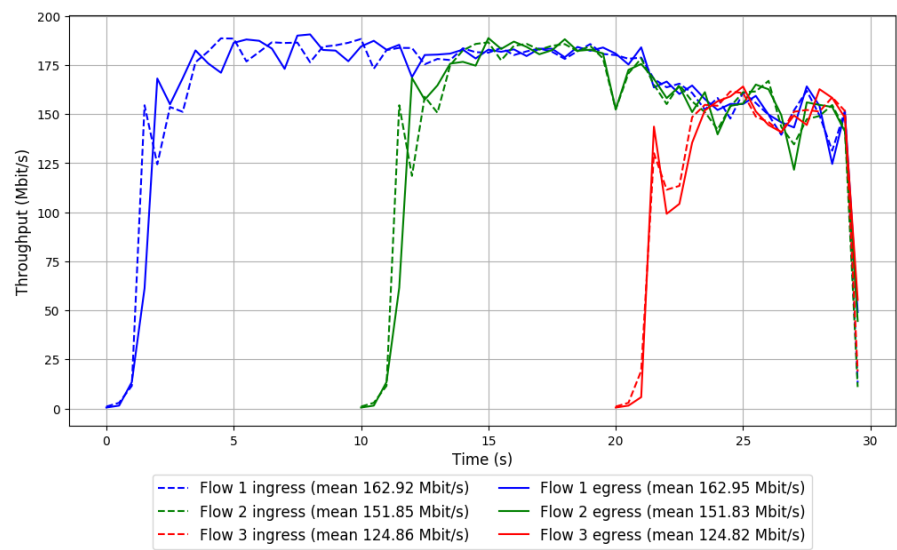
-- Flow 3:

Average throughput: 124.82 Mbit/s

95th percentile per-packet one-way delay: 112.907 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-16 21:31:47

End at: 2017-11-16 21:32:17

Below is generated by plot.py at 2017-11-16 23:28:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.71 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 164.33 Mbit/s

95th percentile per-packet one-way delay: 112.804 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 155.62 Mbit/s

95th percentile per-packet one-way delay: 112.066 ms

Loss rate: 0.00%

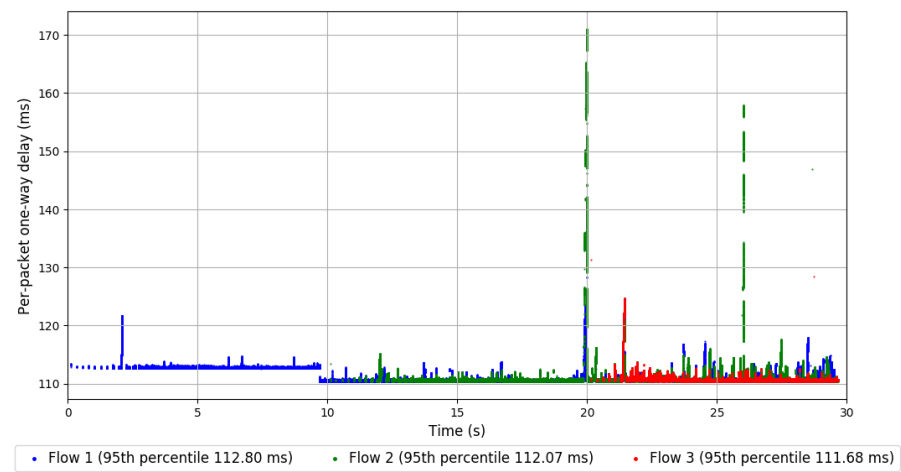
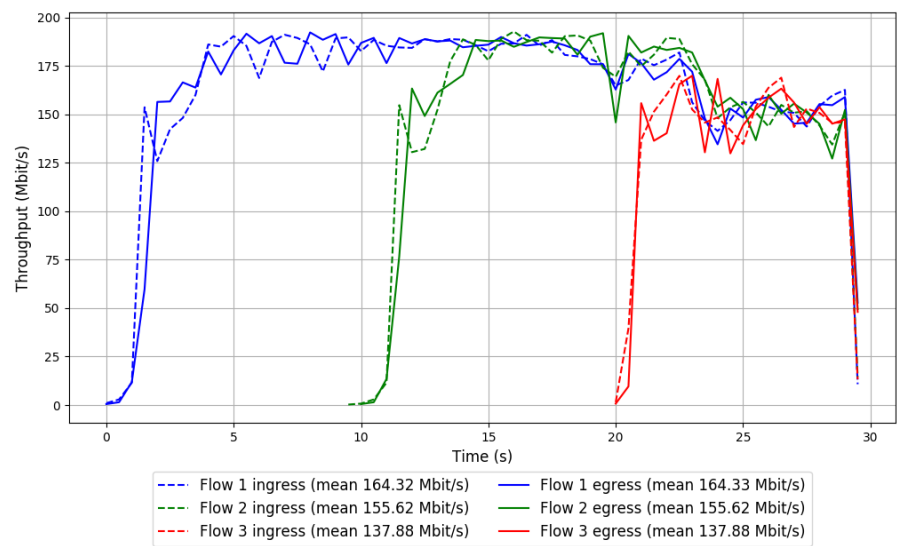
-- Flow 3:

Average throughput: 137.88 Mbit/s

95th percentile per-packet one-way delay: 111.683 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

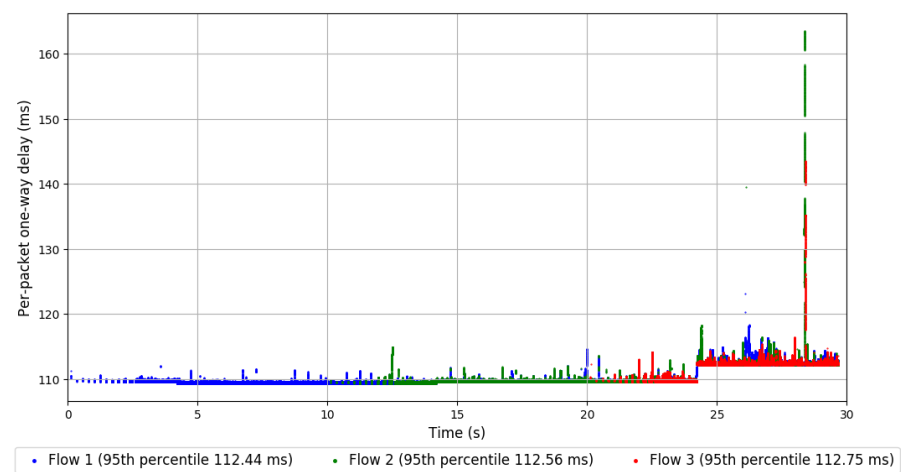
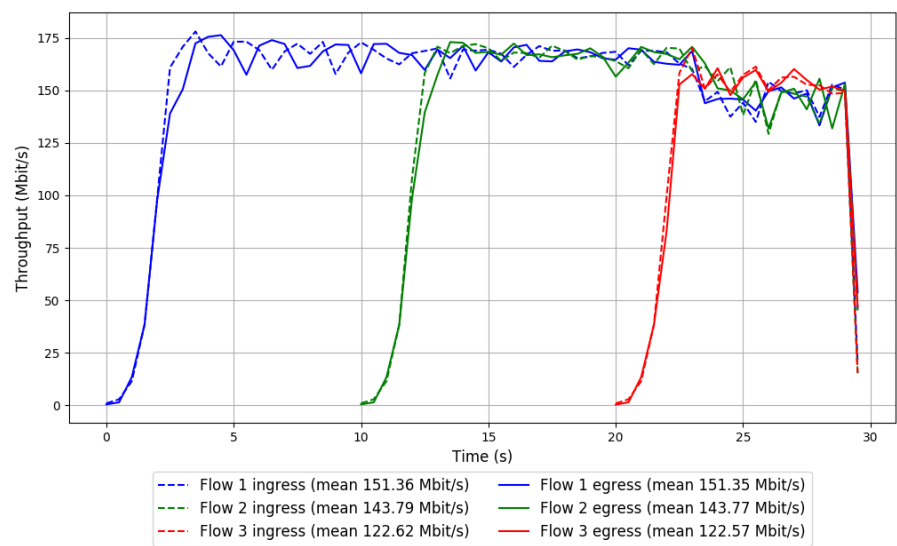


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 19:27:53
End at: 2017-11-16 19:28:23

# Below is generated by plot.py at 2017-11-16 23:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.00 Mbit/s
95th percentile per-packet one-way delay: 112.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.35 Mbit/s
95th percentile per-packet one-way delay: 112.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.77 Mbit/s
95th percentile per-packet one-way delay: 112.555 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.57 Mbit/s
95th percentile per-packet one-way delay: 112.752 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

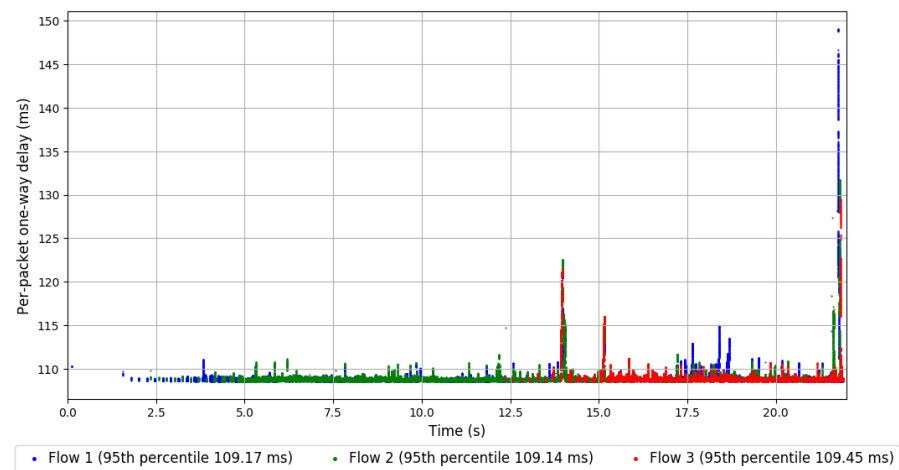
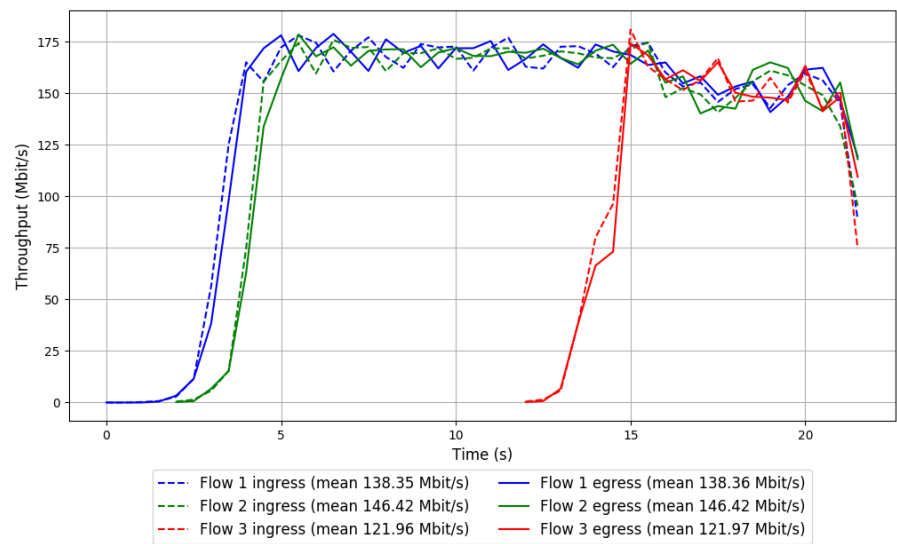


Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 19:41:06

End at: 2017-11-16 19:41:37

Run 2: Report of Indigo-calib — Data Link

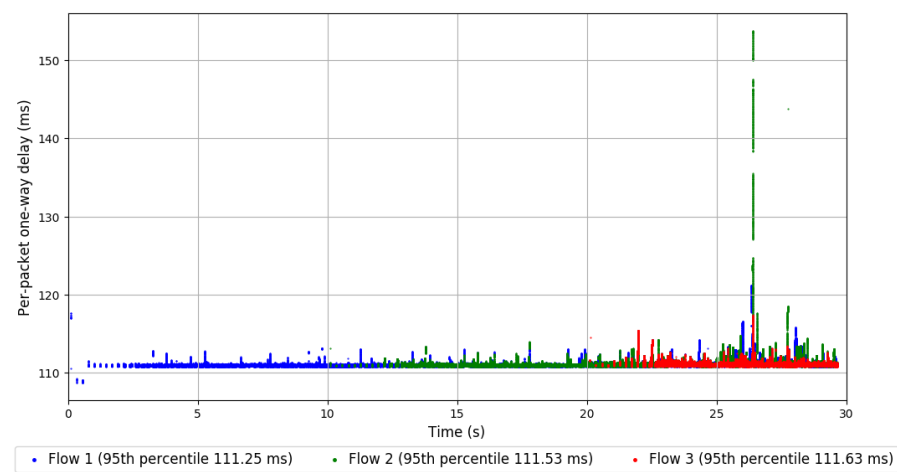
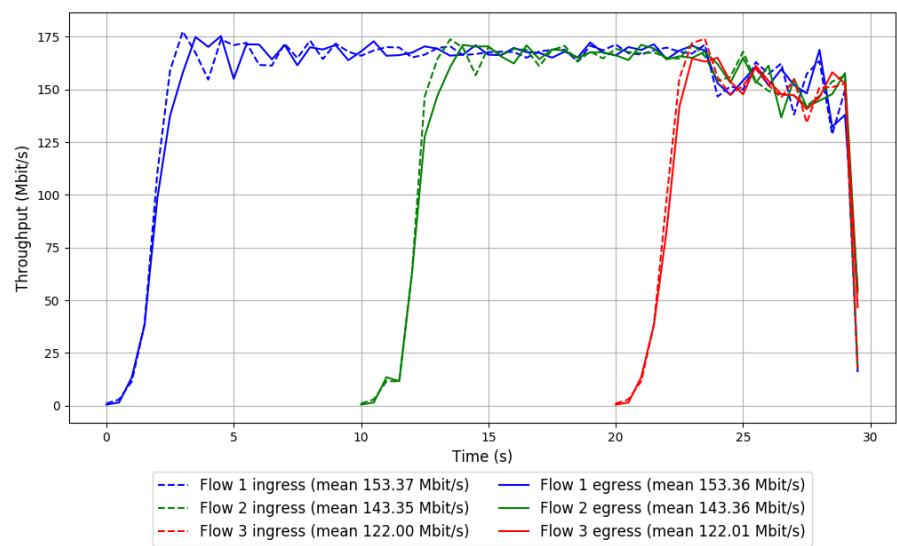


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 19:54:56
End at: 2017-11-16 19:55:26

# Below is generated by plot.py at 2017-11-16 23:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.55 Mbit/s
95th percentile per-packet one-way delay: 111.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.36 Mbit/s
95th percentile per-packet one-way delay: 111.255 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.36 Mbit/s
95th percentile per-packet one-way delay: 111.533 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.01 Mbit/s
95th percentile per-packet one-way delay: 111.626 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link

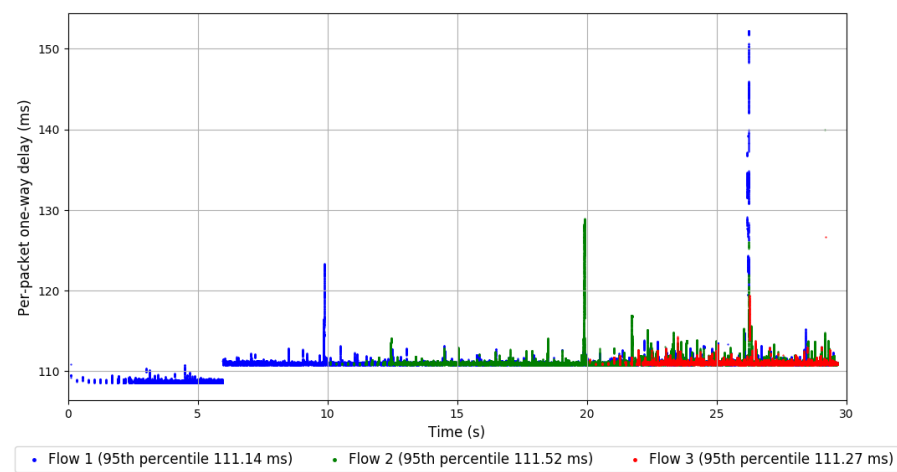
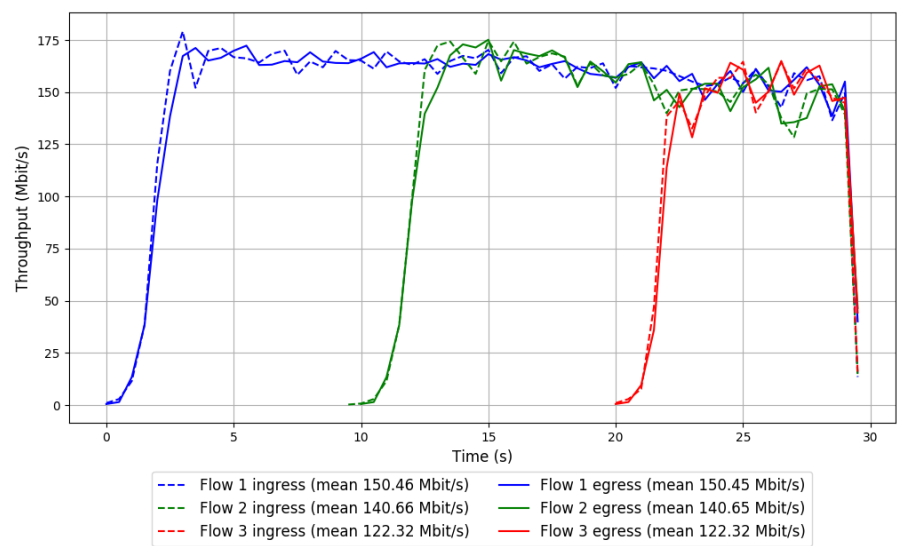


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 20:08:11
End at: 2017-11-16 20:08:41

# Below is generated by plot.py at 2017-11-16 23:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.99 Mbit/s
95th percentile per-packet one-way delay: 111.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.45 Mbit/s
95th percentile per-packet one-way delay: 111.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 140.65 Mbit/s
95th percentile per-packet one-way delay: 111.519 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.32 Mbit/s
95th percentile per-packet one-way delay: 111.266 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 20:21:48

End at: 2017-11-16 20:22:18

Below is generated by plot.py at 2017-11-16 23:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.21 Mbit/s

95th percentile per-packet one-way delay: 112.411 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.61 Mbit/s

95th percentile per-packet one-way delay: 112.411 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.60 Mbit/s

95th percentile per-packet one-way delay: 112.407 ms

Loss rate: 0.00%

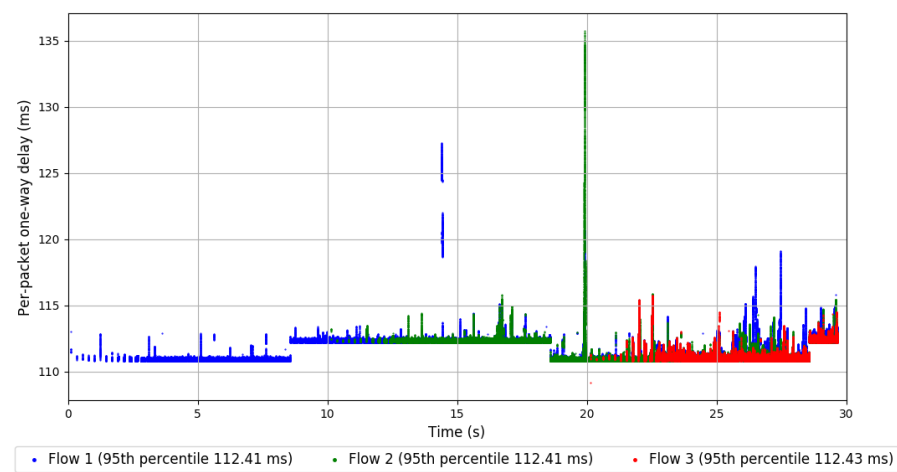
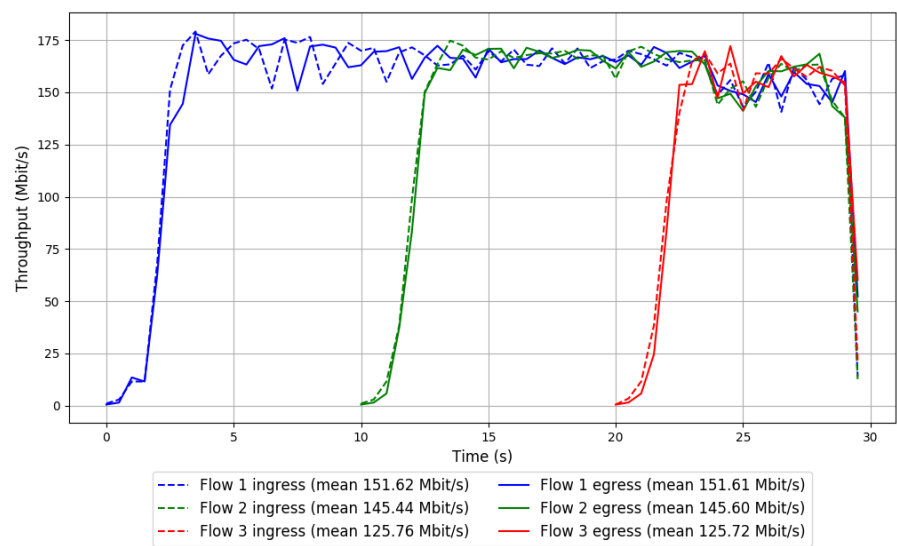
-- Flow 3:

Average throughput: 125.72 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 20:35:39

End at: 2017-11-16 20:36:09

Below is generated by plot.py at 2017-11-16 23:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.21 Mbit/s

95th percentile per-packet one-way delay: 112.793 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 151.49 Mbit/s

95th percentile per-packet one-way delay: 112.779 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 141.59 Mbit/s

95th percentile per-packet one-way delay: 112.847 ms

Loss rate: 0.00%

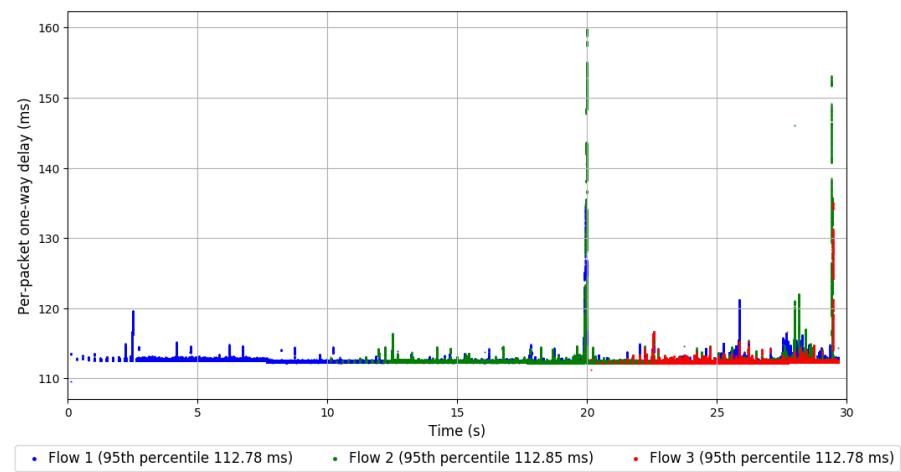
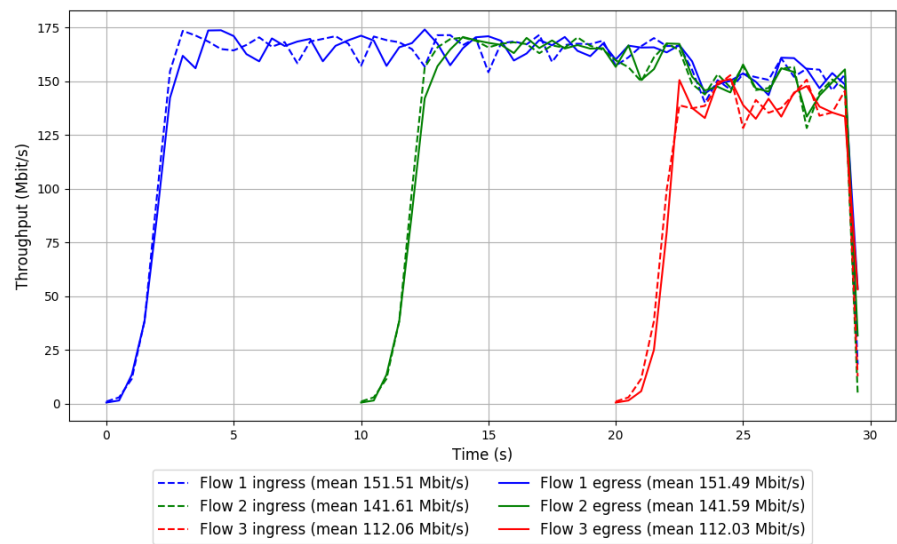
-- Flow 3:

Average throughput: 112.03 Mbit/s

95th percentile per-packet one-way delay: 112.784 ms

Loss rate: 0.01%

Run 6: Report of Indigo-calib — Data Link

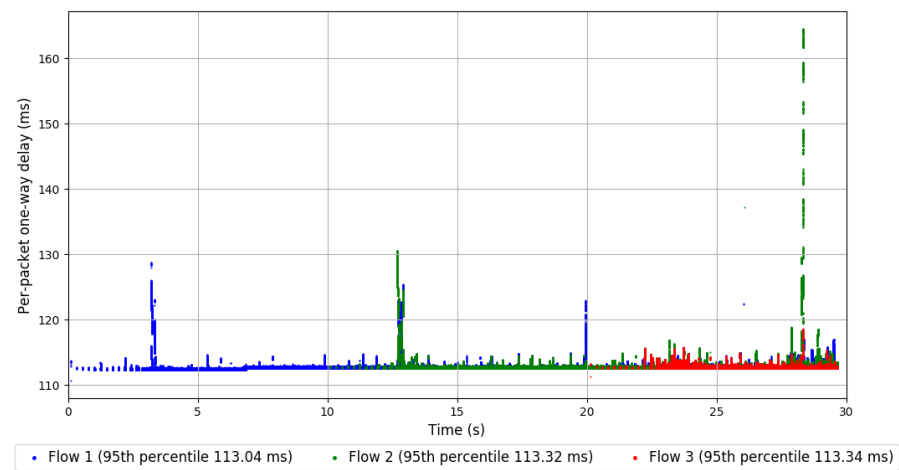
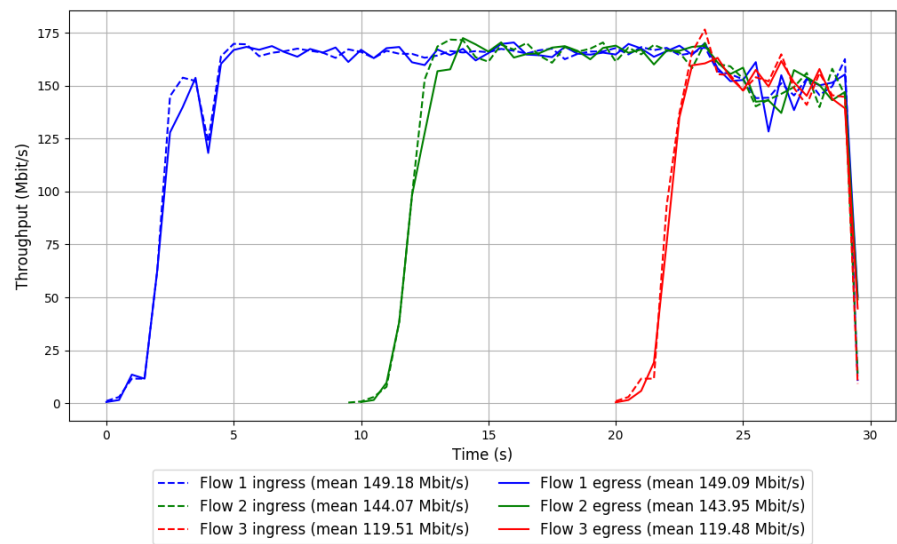


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 20:49:10
End at: 2017-11-16 20:49:40

# Below is generated by plot.py at 2017-11-16 23:31:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.84 Mbit/s
95th percentile per-packet one-way delay: 113.192 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 149.09 Mbit/s
95th percentile per-packet one-way delay: 113.040 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 143.95 Mbit/s
95th percentile per-packet one-way delay: 113.319 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 119.48 Mbit/s
95th percentile per-packet one-way delay: 113.344 ms
Loss rate: 0.01%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 21:02:21

End at: 2017-11-16 21:02:51

Below is generated by plot.py at 2017-11-16 23:31:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.25 Mbit/s

95th percentile per-packet one-way delay: 112.977 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 150.29 Mbit/s

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

Loss rate: 0.20%

-- Flow 2:

Average throughput: 142.74 Mbit/s

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

Loss rate: 0.00%

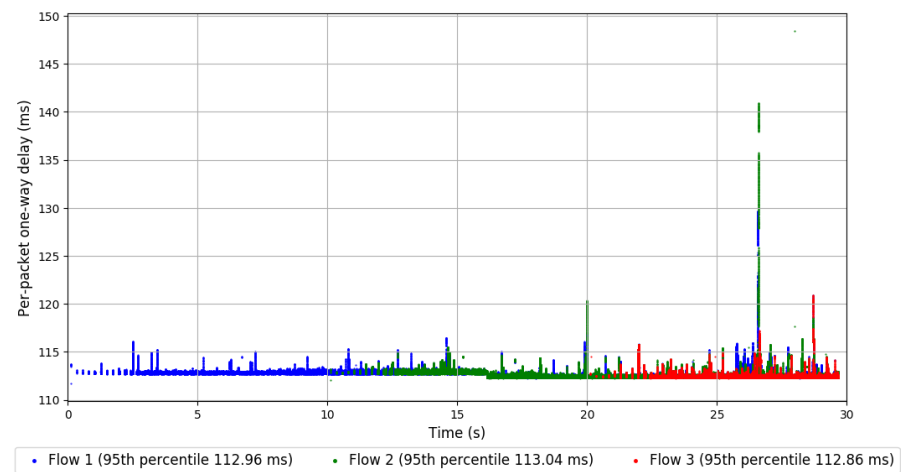
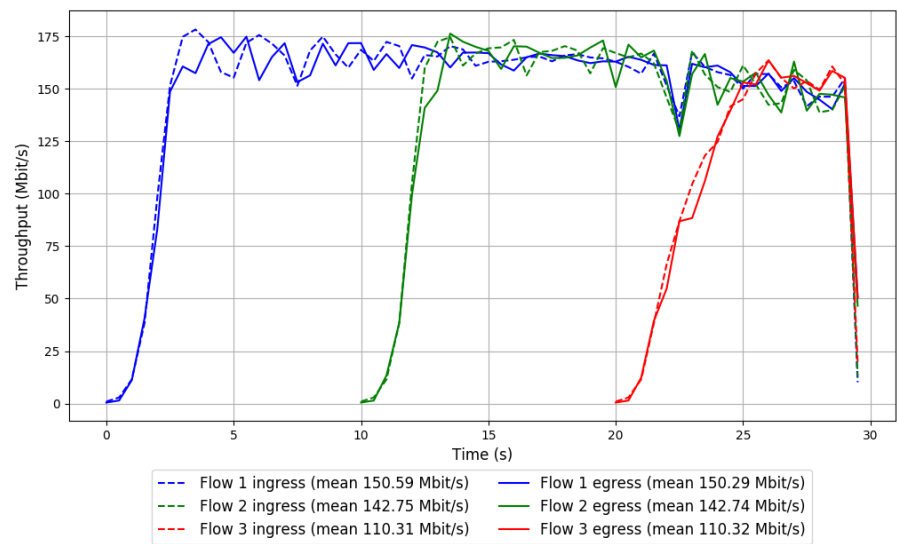
-- Flow 3:

Average throughput: 110.32 Mbit/s

95th percentile per-packet one-way delay: 112.865 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

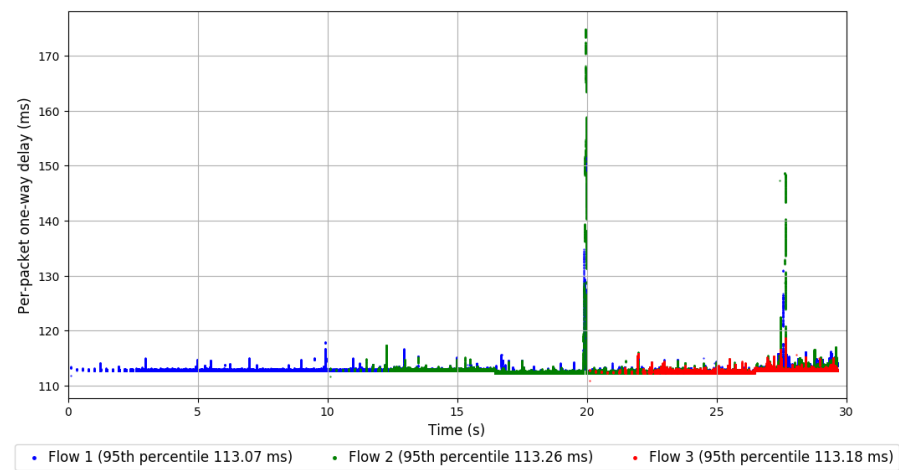
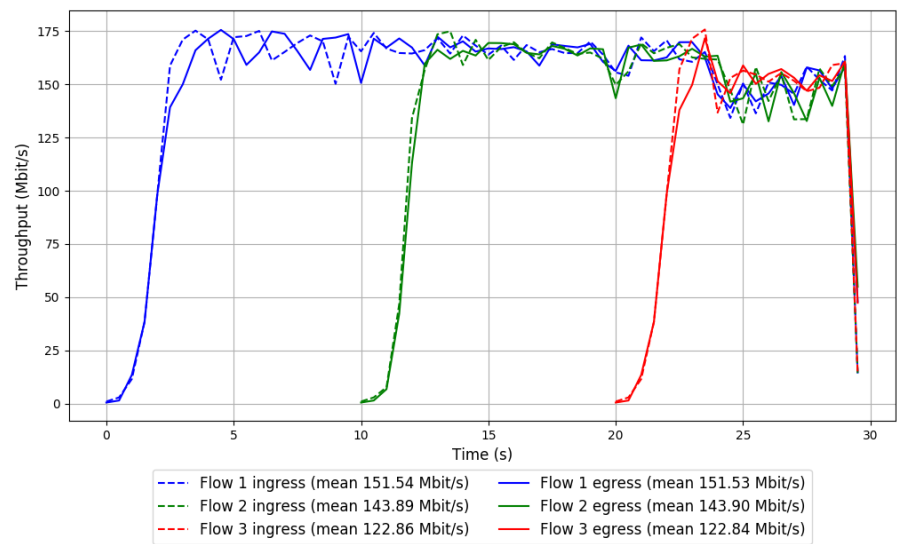


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 21:16:11
End at: 2017-11-16 21:16:41

# Below is generated by plot.py at 2017-11-16 23:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.33 Mbit/s
95th percentile per-packet one-way delay: 113.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.53 Mbit/s
95th percentile per-packet one-way delay: 113.067 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.90 Mbit/s
95th percentile per-packet one-way delay: 113.263 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.84 Mbit/s
95th percentile per-packet one-way delay: 113.183 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 21:29:21

End at: 2017-11-16 21:29:51

Below is generated by plot.py at 2017-11-16 23:31:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.17 Mbit/s

95th percentile per-packet one-way delay: 112.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.19 Mbit/s

95th percentile per-packet one-way delay: 112.864 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.04 Mbit/s

95th percentile per-packet one-way delay: 112.981 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 122.24 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

