

Pantheon Report

Generated at 2017-09-22 06:53:34 (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.

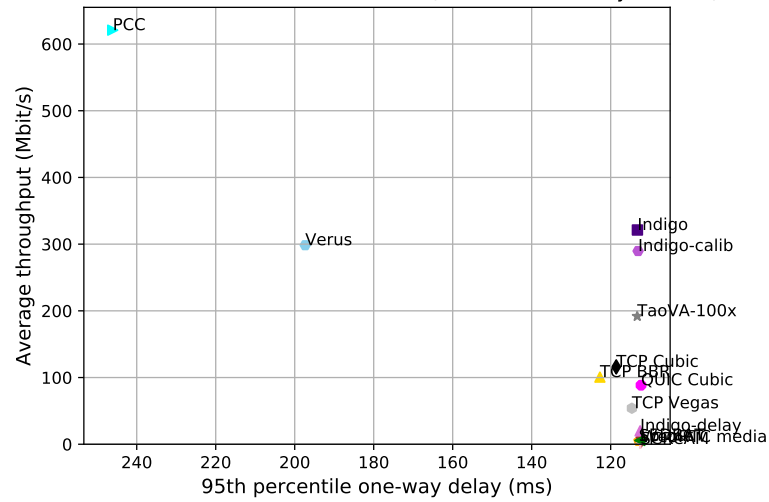
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

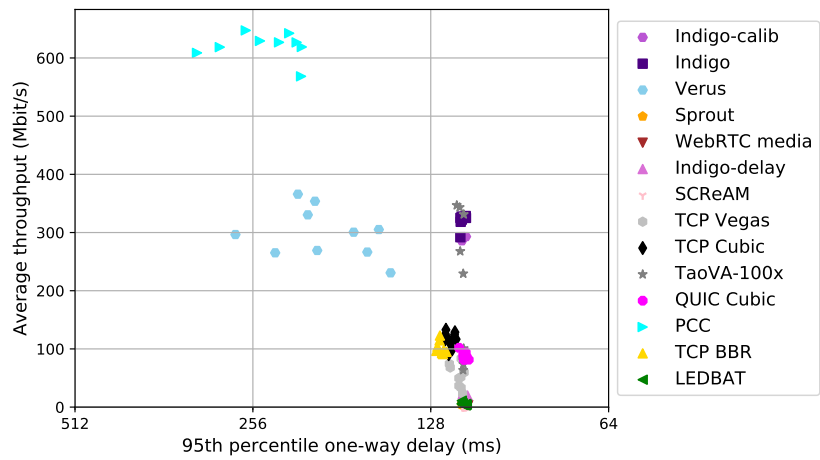
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-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



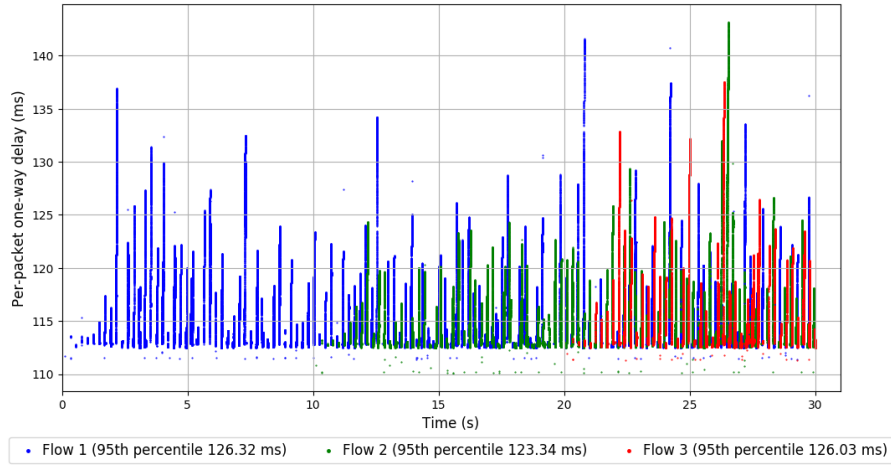
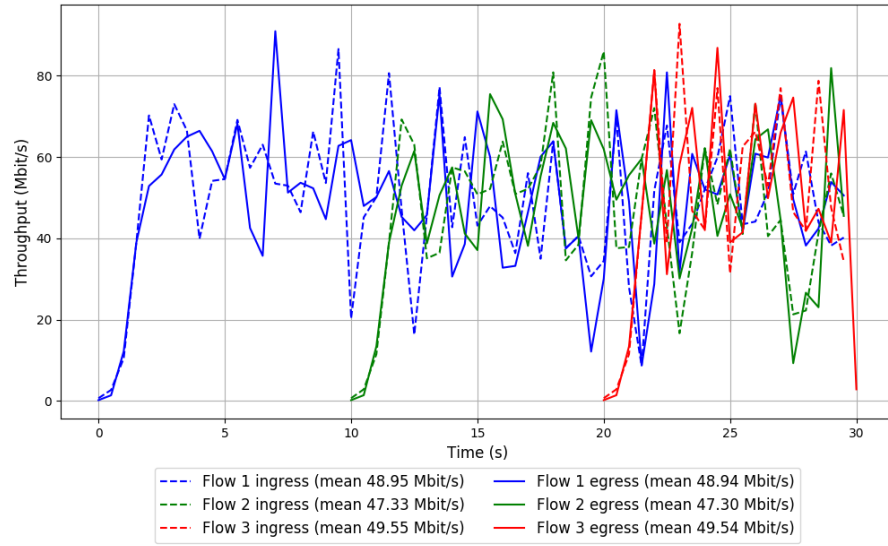
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	49.47	52.17	50.60	122.42	123.08	122.21	0.01	0.01	0.00
TCP Cubic	10	59.61	56.51	56.77	117.22	118.62	119.85	0.00	0.01	0.00
LEDBAT	9	2.83	3.49	1.48	112.63	112.65	112.48	0.30	0.08	0.00
PCC	9	498.72	155.19	56.00	252.48	210.49	210.59	3.42	2.22	2.64
QUIC Cubic	10	49.17	45.25	28.94	111.08	111.28	111.65	0.00	0.00	0.00
SCReAM	10	0.21	0.21	0.19	111.40	112.00	111.94	0.00	0.00	0.00
WebRTC media	10	1.68	1.30	0.40	111.84	111.13	112.19	0.02	0.00	0.01
Sprout	10	2.59	2.34	1.88	112.89	112.92	112.66	0.34	0.13	0.20
TaoVA-100x	10	112.49	70.82	120.08	113.53	113.65	112.54	0.00	0.00	0.09
TCP Vegas	10	20.68	37.29	25.62	113.63	115.34	114.06	0.03	0.00	0.03
Verus	10	180.54	146.15	69.77	190.55	188.52	168.44	0.85	1.66	0.67
Indigo	10	168.95	160.17	144.06	112.92	113.60	113.83	0.01	0.00	0.01
Indigo-calib	7	152.33	146.00	127.00	112.86	113.18	113.39	0.00	0.00	0.01
Indigo-delay	9	9.03	10.58	12.91	112.63	112.52	112.66	0.00	0.00	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-22 03:11:04
End at: 2017-09-22 03:11:34

# Below is generated by plot.py at 2017-09-22 06:11:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 125.294 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 48.94 Mbit/s
95th percentile per-packet one-way delay: 126.319 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.30 Mbit/s
95th percentile per-packet one-way delay: 123.336 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 49.54 Mbit/s
95th percentile per-packet one-way delay: 126.027 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-22 03:24:24

End at: 2017-09-22 03:24:54

Below is generated by plot.py at 2017-09-22 06:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.67 Mbit/s

95th percentile per-packet one-way delay: 123.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.01 Mbit/s

95th percentile per-packet one-way delay: 122.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.57 Mbit/s

95th percentile per-packet one-way delay: 125.173 ms

Loss rate: 0.01%

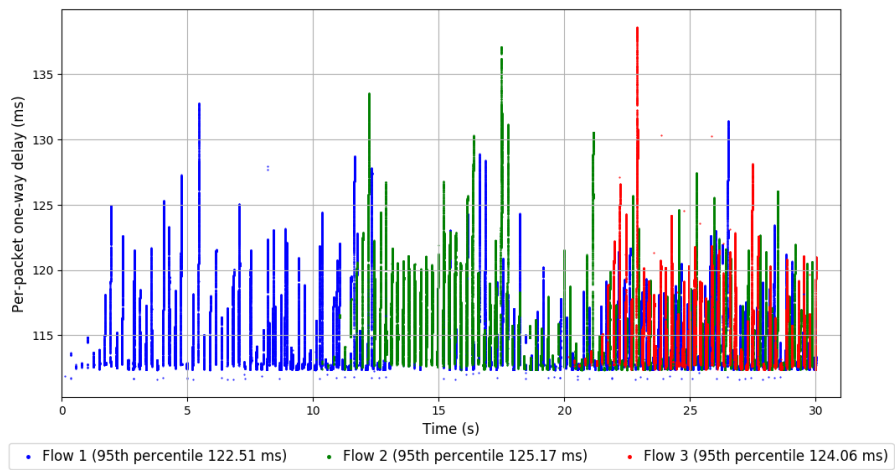
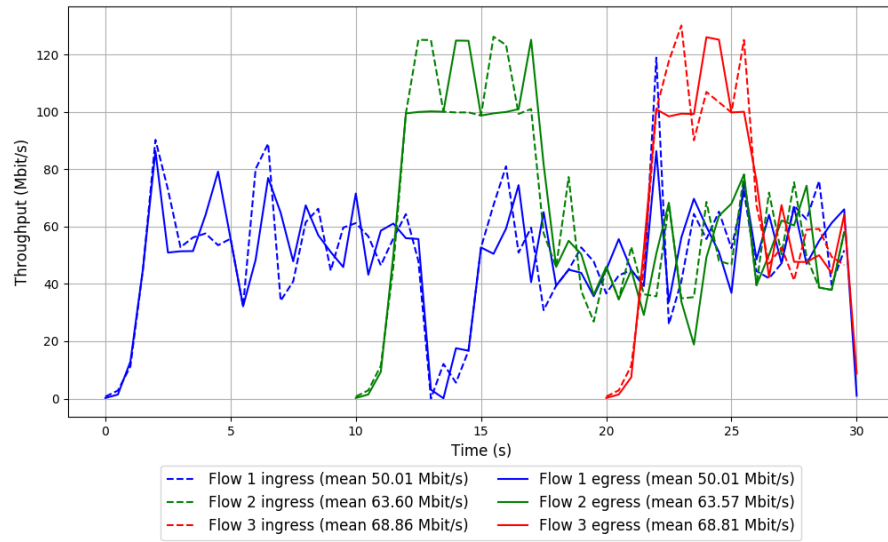
-- Flow 3:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 124.064 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-22 03:38:12

End at: 2017-09-22 03:38:42

Below is generated by plot.py at 2017-09-22 06:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 121.585 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 120.300 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 123.301 ms

Loss rate: 0.00%

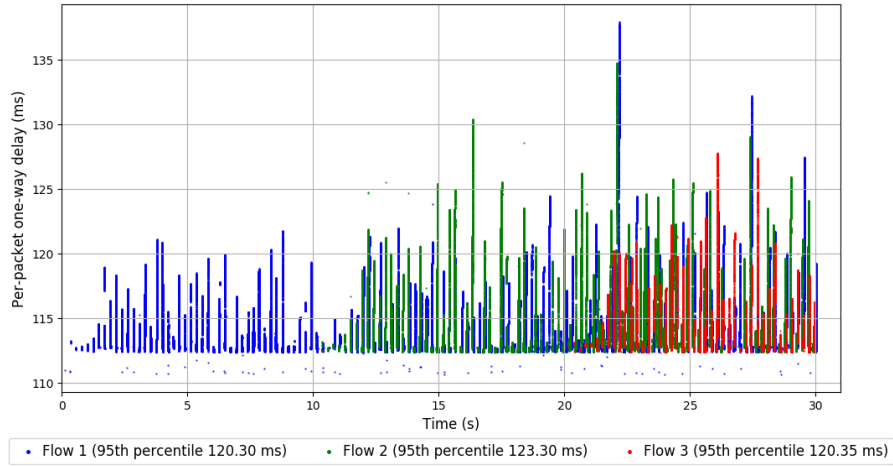
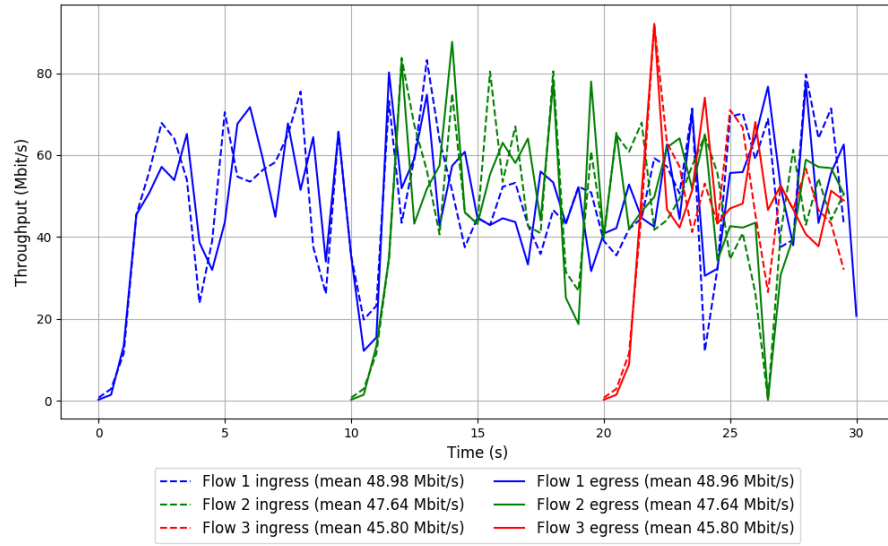
-- Flow 3:

Average throughput: 45.80 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-22 03:51:33

End at: 2017-09-22 03:52:03

Below is generated by plot.py at 2017-09-22 06:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 120.318 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 120.882 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 120.100 ms

Loss rate: 0.01%

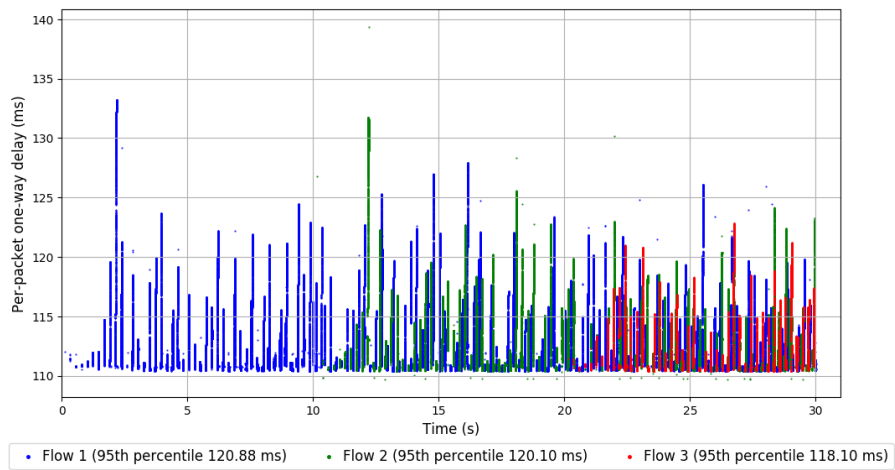
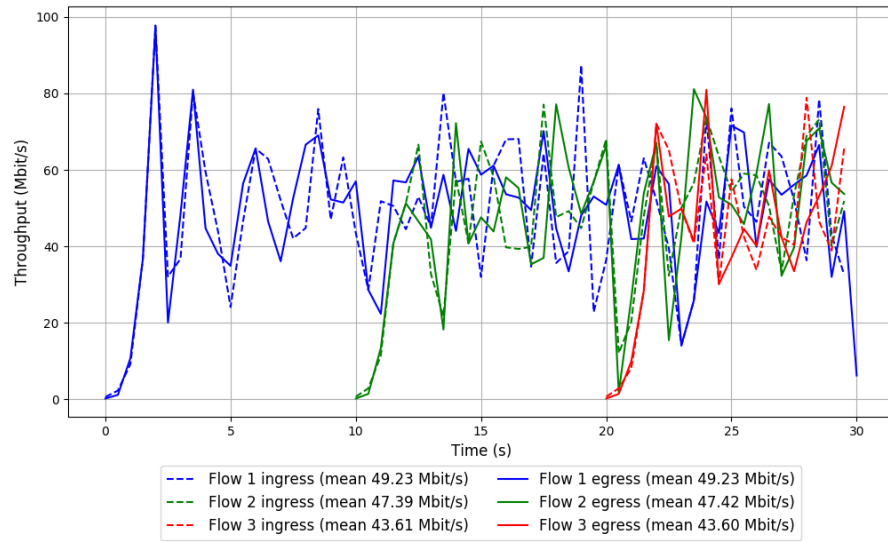
-- Flow 3:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 118.101 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-22 04:04:58

End at: 2017-09-22 04:05:28

Below is generated by plot.py at 2017-09-22 06:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.17 Mbit/s

95th percentile per-packet one-way delay: 121.632 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 121.463 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 122.608 ms

Loss rate: 0.00%

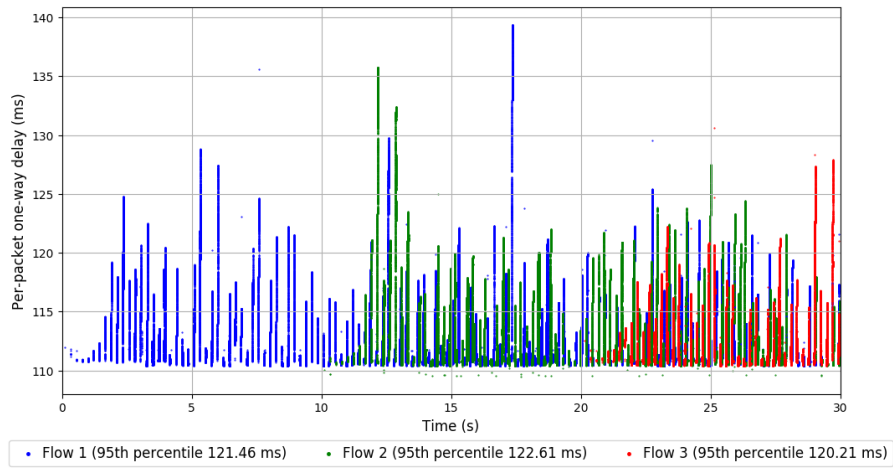
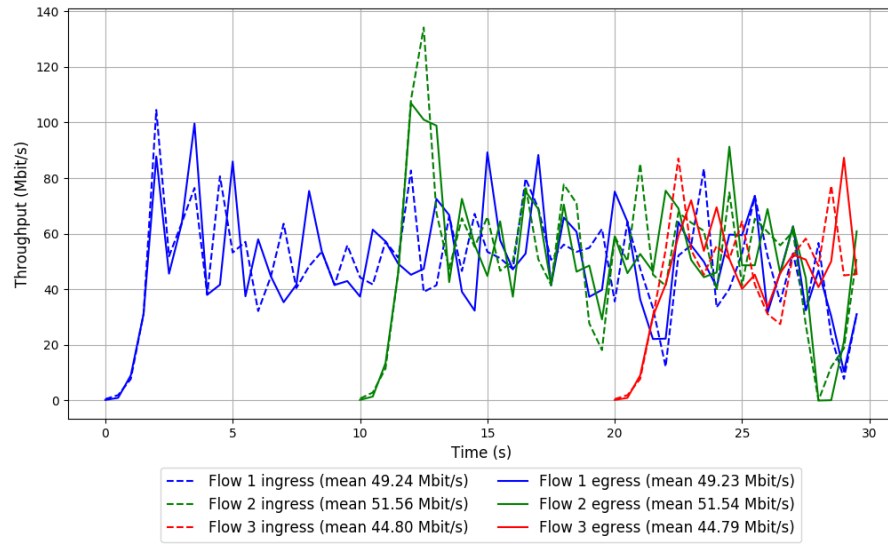
-- Flow 3:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 120.213 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-22 04:18:51

End at: 2017-09-22 04:19:21

Below is generated by plot.py at 2017-09-22 06:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 122.089 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 122.800 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 121.252 ms

Loss rate: 0.00%

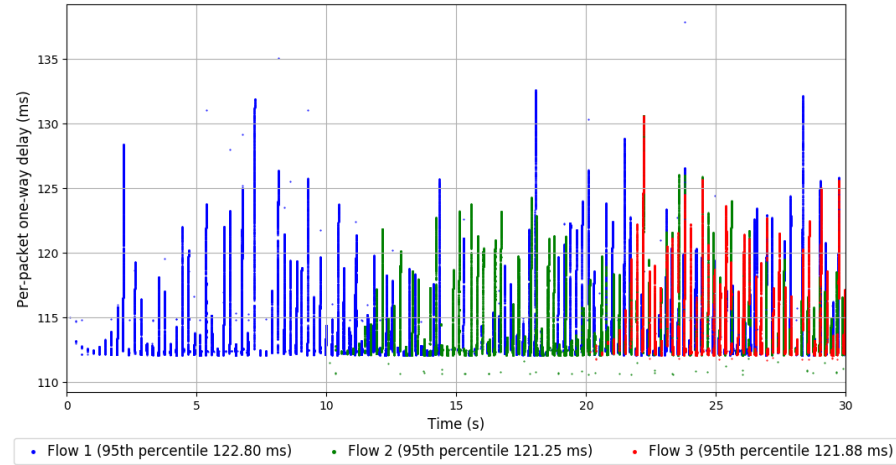
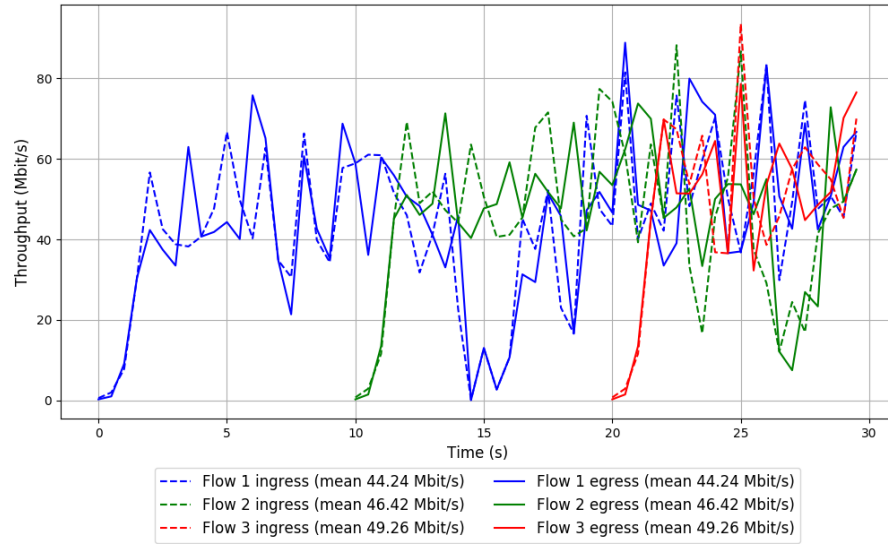
-- Flow 3:

Average throughput: 49.26 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-22 04:32:38

End at: 2017-09-22 04:33:08

Below is generated by plot.py at 2017-09-22 06:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 121.902 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.15 Mbit/s

95th percentile per-packet one-way delay: 121.736 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.07 Mbit/s

95th percentile per-packet one-way delay: 119.763 ms

Loss rate: 0.00%

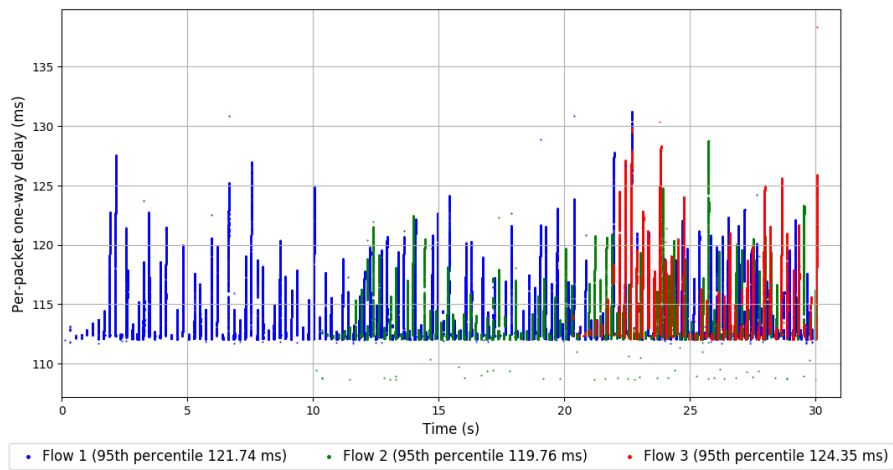
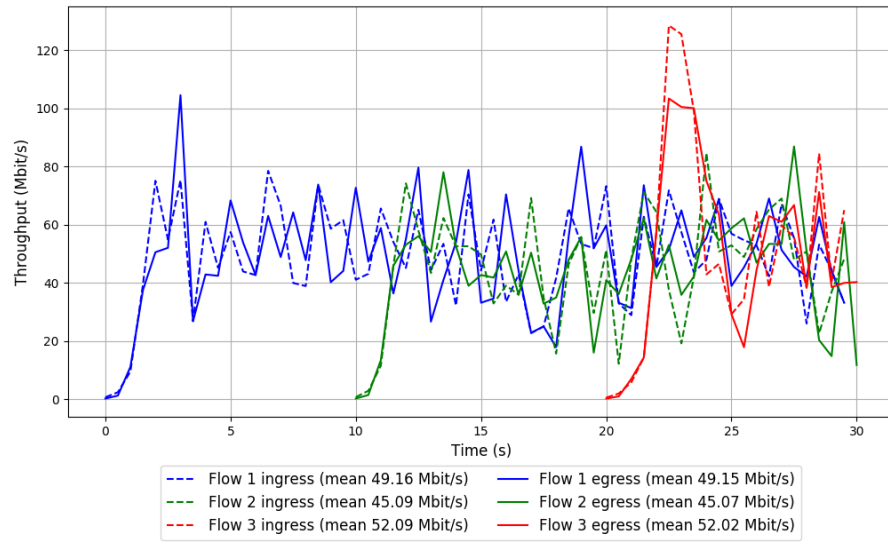
-- Flow 3:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 124.348 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-22 04:46:39

End at: 2017-09-22 04:47:09

Below is generated by plot.py at 2017-09-22 06:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 122.524 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 121.740 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 124.376 ms

Loss rate: 0.00%

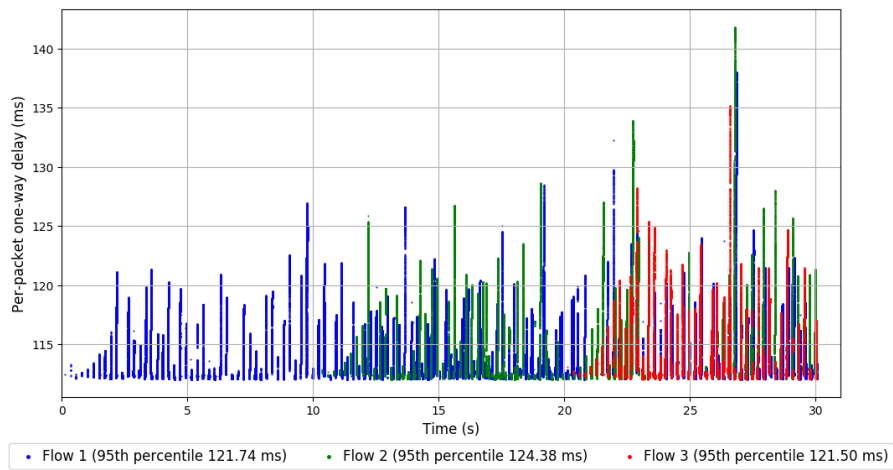
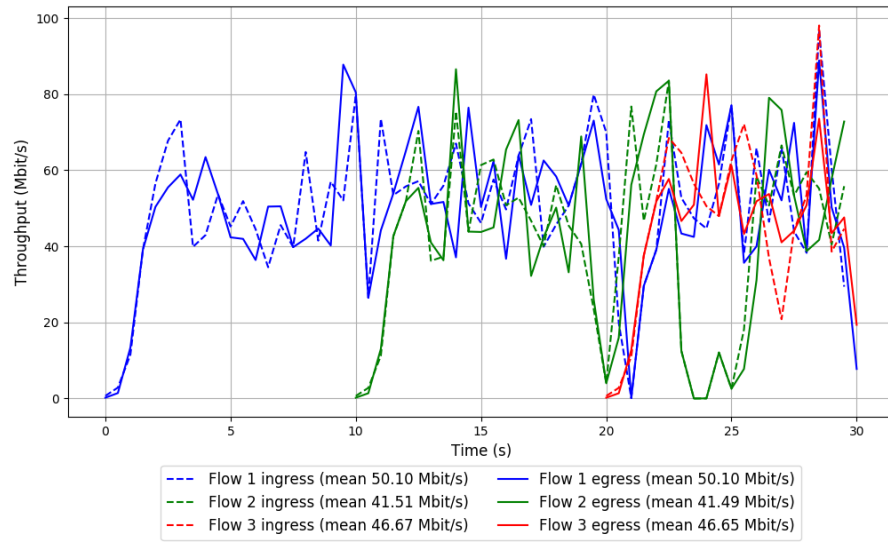
-- Flow 3:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 121.503 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-22 04:59:46

End at: 2017-09-22 05:00:16

Below is generated by plot.py at 2017-09-22 06:12:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.75 Mbit/s

95th percentile per-packet one-way delay: 124.712 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 122.491 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 53.31 Mbit/s

95th percentile per-packet one-way delay: 126.575 ms

Loss rate: 0.01%

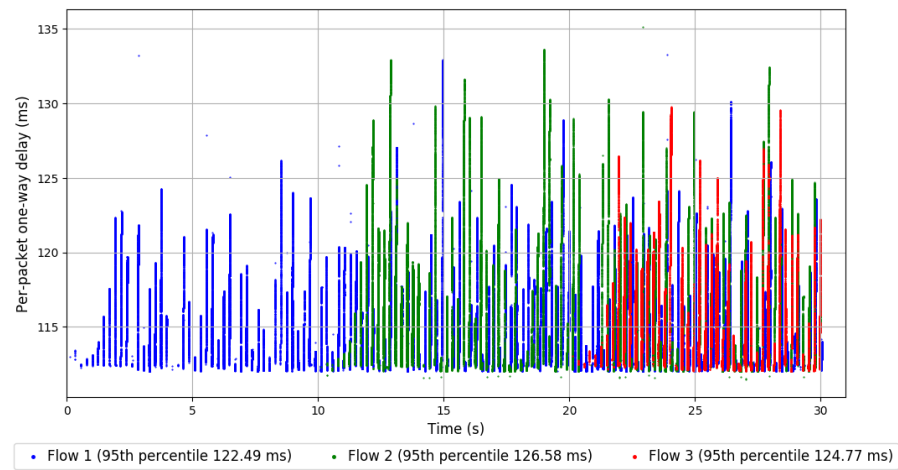
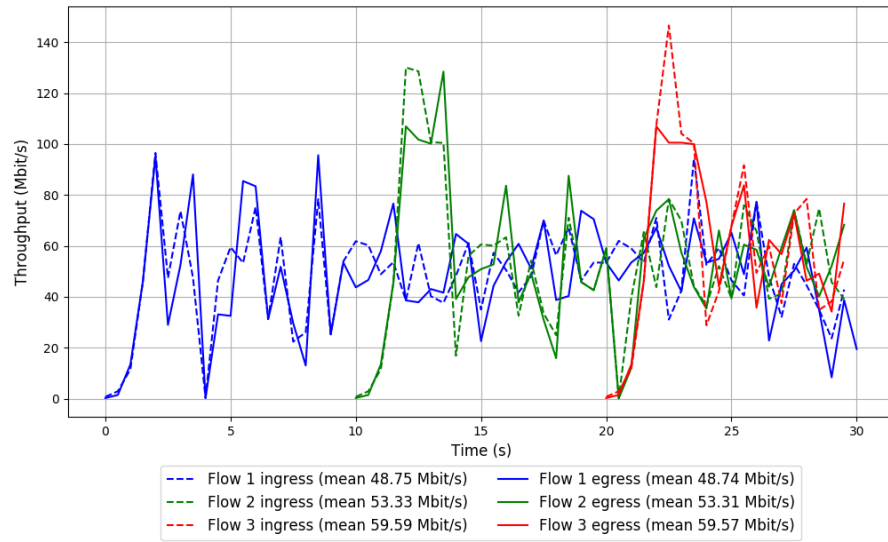
-- Flow 3:

Average throughput: 59.57 Mbit/s

95th percentile per-packet one-way delay: 124.772 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-22 05:12:51

End at: 2017-09-22 05:13:21

Below is generated by plot.py at 2017-09-22 06:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.92 Mbit/s

95th percentile per-packet one-way delay: 123.523 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 123.929 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 77.96 Mbit/s

95th percentile per-packet one-way delay: 124.313 ms

Loss rate: 0.01%

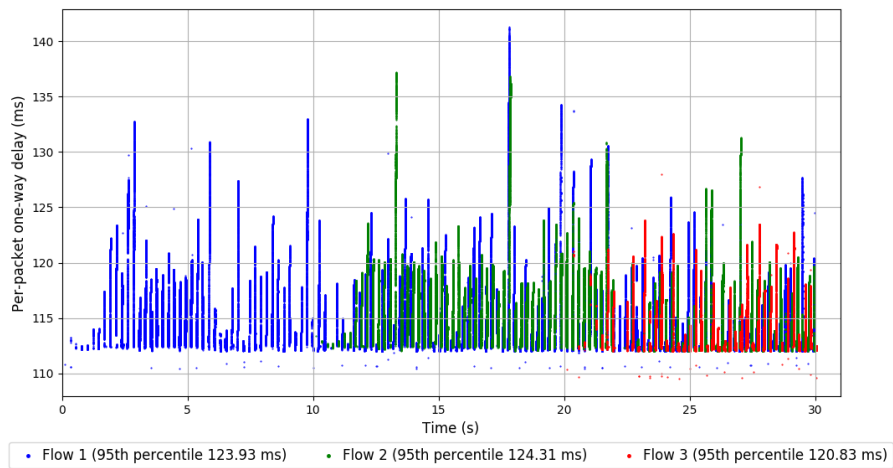
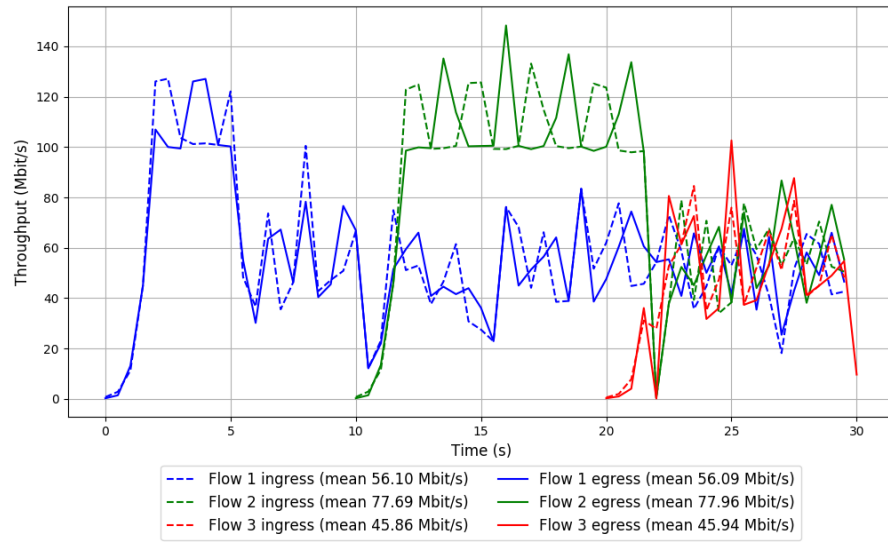
-- Flow 3:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 120.835 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-22 03:12:47

End at: 2017-09-22 03:13:17

Below is generated by plot.py at 2017-09-22 06:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.43 Mbit/s

95th percentile per-packet one-way delay: 119.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.01 Mbit/s

95th percentile per-packet one-way delay: 117.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.36 Mbit/s

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

Loss rate: 0.00%

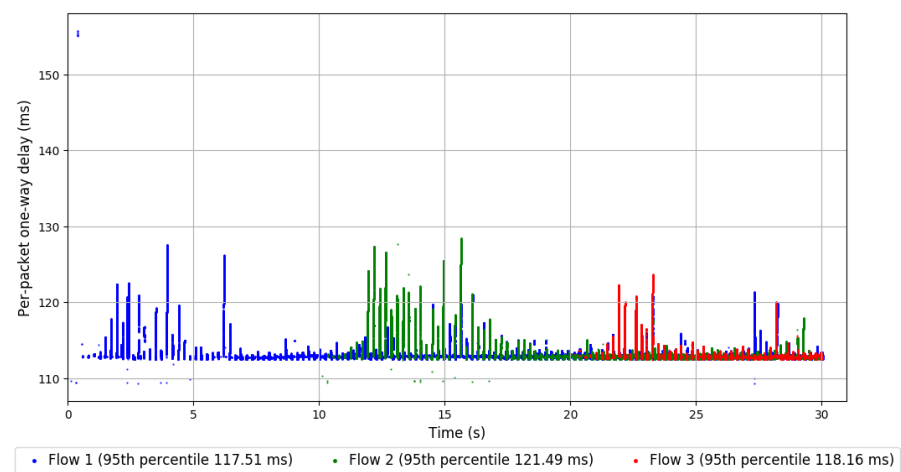
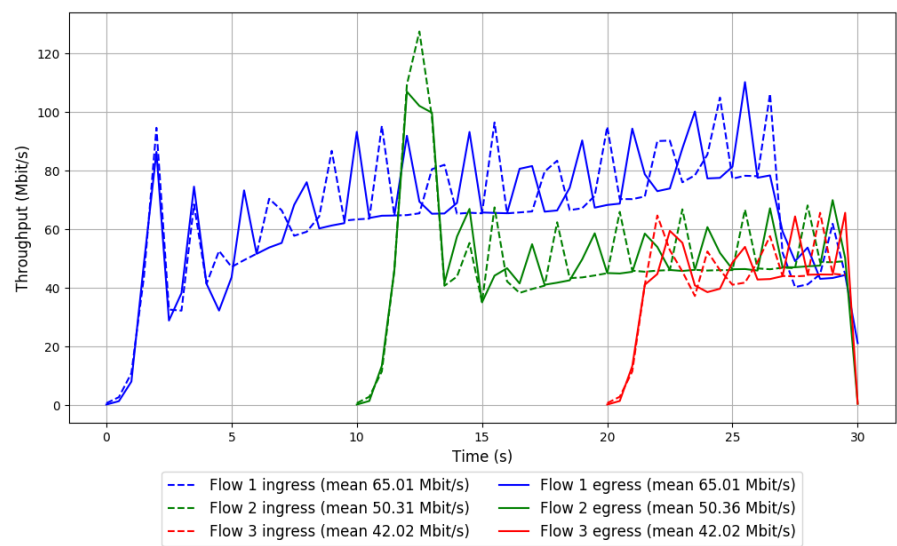
-- Flow 3:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 118.161 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-22 03:26:07

End at: 2017-09-22 03:26:37

Below is generated by plot.py at 2017-09-22 06:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.78 Mbit/s

95th percentile per-packet one-way delay: 118.042 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.99 Mbit/s

95th percentile per-packet one-way delay: 116.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 119.628 ms

Loss rate: 0.00%

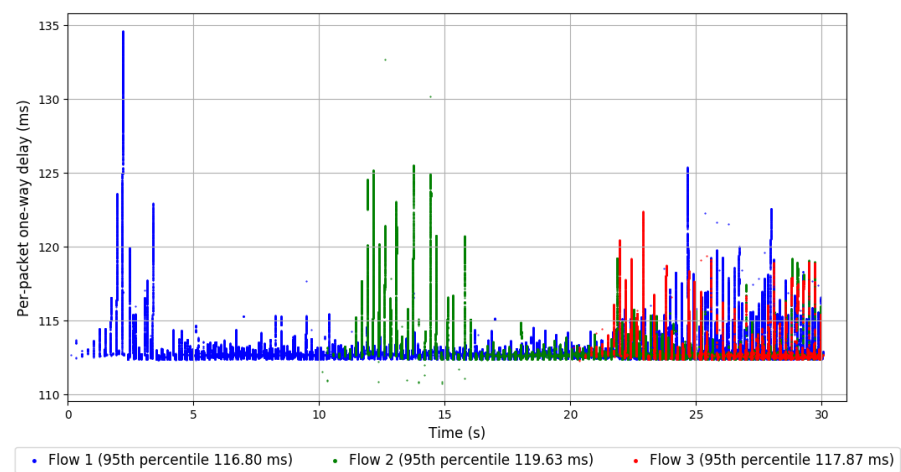
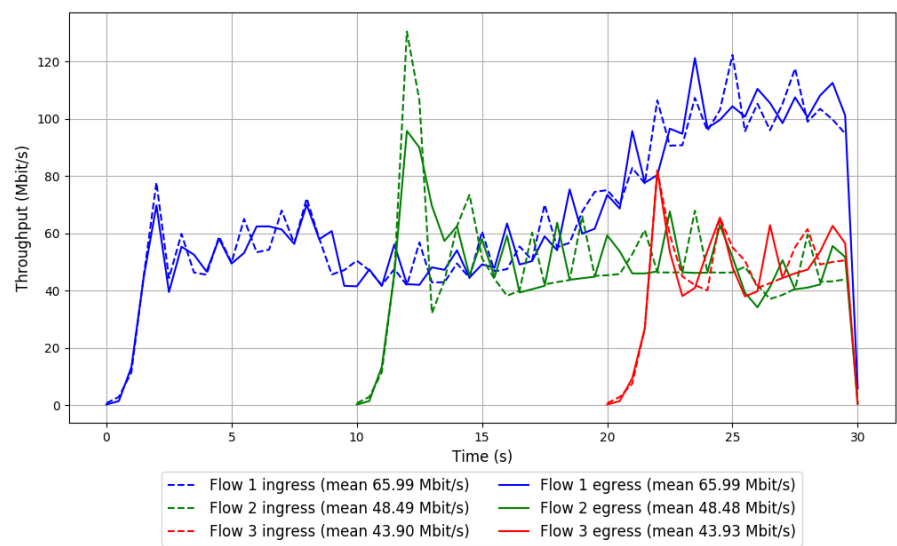
-- Flow 3:

Average throughput: 43.93 Mbit/s

95th percentile per-packet one-way delay: 117.866 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-22 03:39:53

End at: 2017-09-22 03:40:23

Below is generated by plot.py at 2017-09-22 06:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.12 Mbit/s

95th percentile per-packet one-way delay: 120.873 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.85 Mbit/s

95th percentile per-packet one-way delay: 121.742 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.60 Mbit/s

95th percentile per-packet one-way delay: 117.712 ms

Loss rate: 0.00%

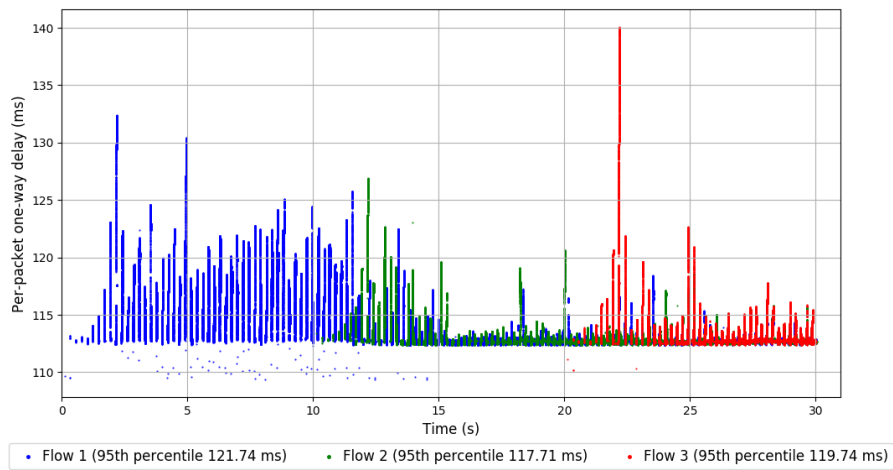
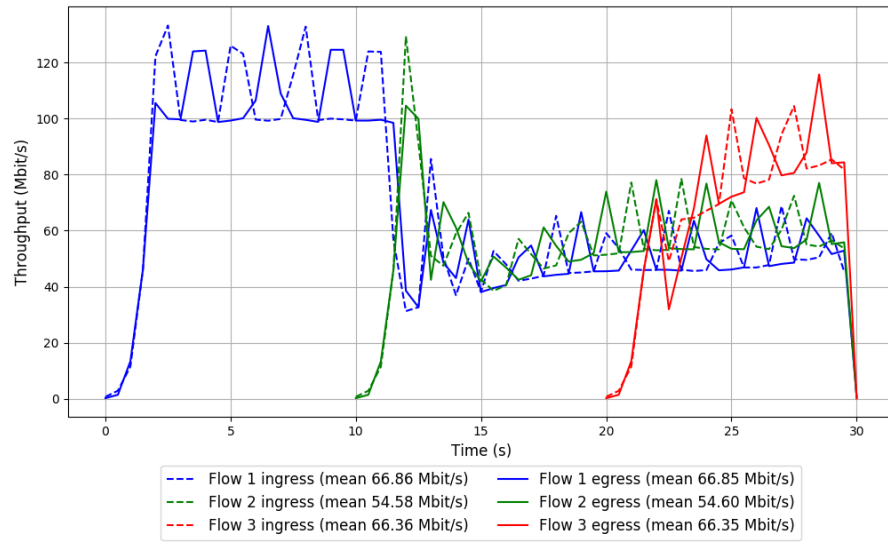
-- Flow 3:

Average throughput: 66.35 Mbit/s

95th percentile per-packet one-way delay: 119.740 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-22 03:53:16

End at: 2017-09-22 03:53:46

Below is generated by plot.py at 2017-09-22 06:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.59 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 114.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.08 Mbit/s

95th percentile per-packet one-way delay: 116.619 ms

Loss rate: 0.00%

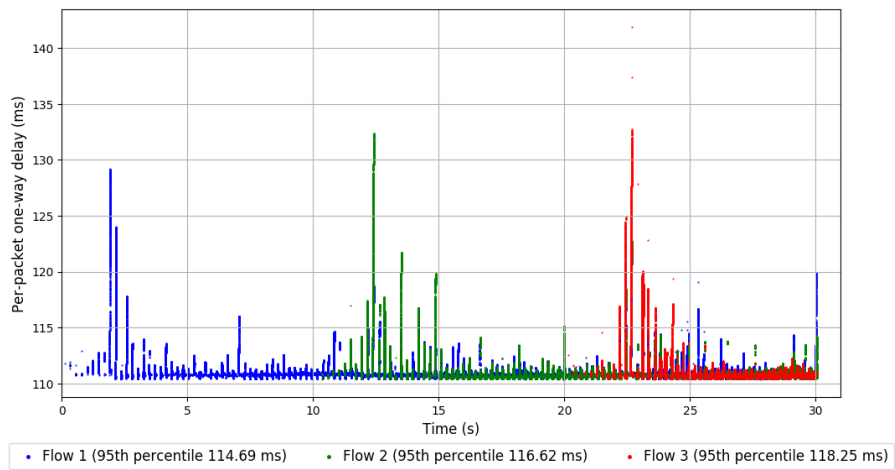
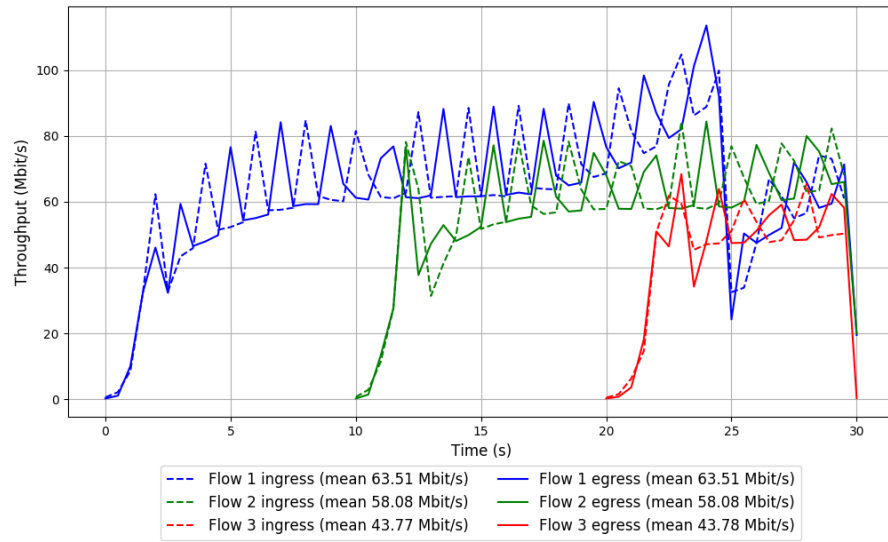
-- Flow 3:

Average throughput: 43.78 Mbit/s

95th percentile per-packet one-way delay: 118.245 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-22 04:06:40

End at: 2017-09-22 04:07:10

Below is generated by plot.py at 2017-09-22 06:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.32 Mbit/s

95th percentile per-packet one-way delay: 117.748 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 113.660 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 53.33 Mbit/s

95th percentile per-packet one-way delay: 121.808 ms

Loss rate: 0.01%

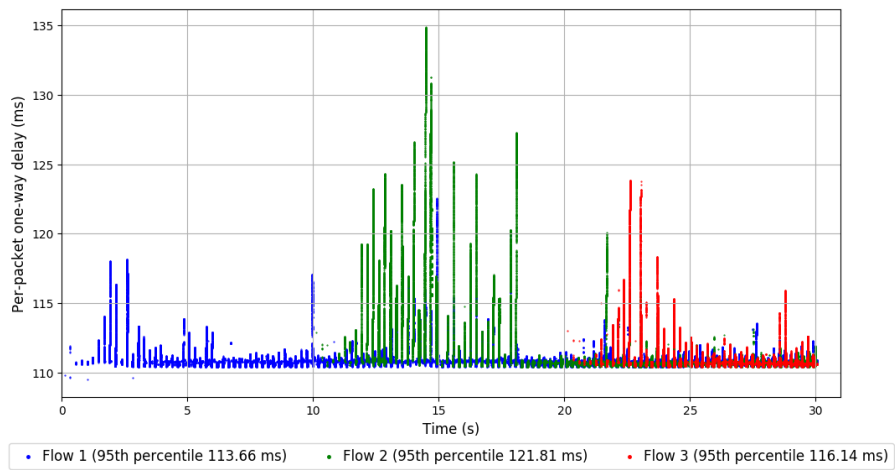
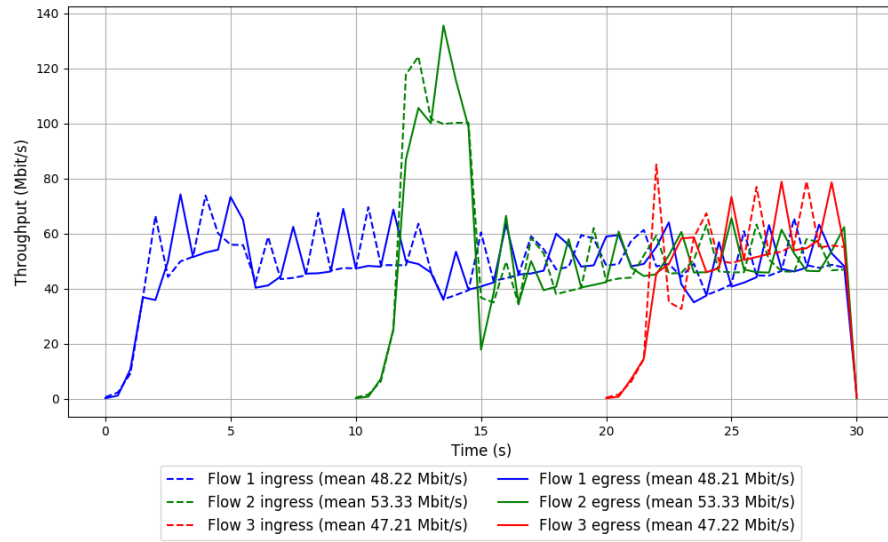
-- Flow 3:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 116.144 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-22 04:20:32

End at: 2017-09-22 04:21:02

Below is generated by plot.py at 2017-09-22 06:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.91 Mbit/s

95th percentile per-packet one-way delay: 120.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: 117.579 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.31 Mbit/s

95th percentile per-packet one-way delay: 118.449 ms

Loss rate: 0.00%

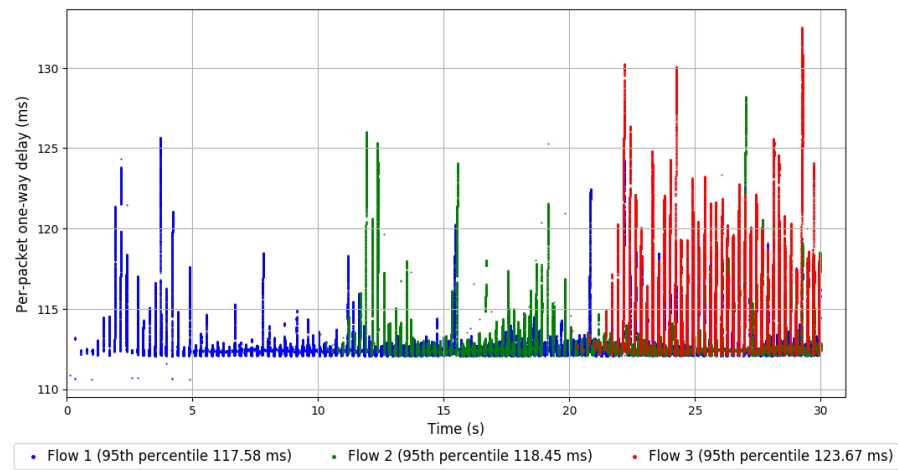
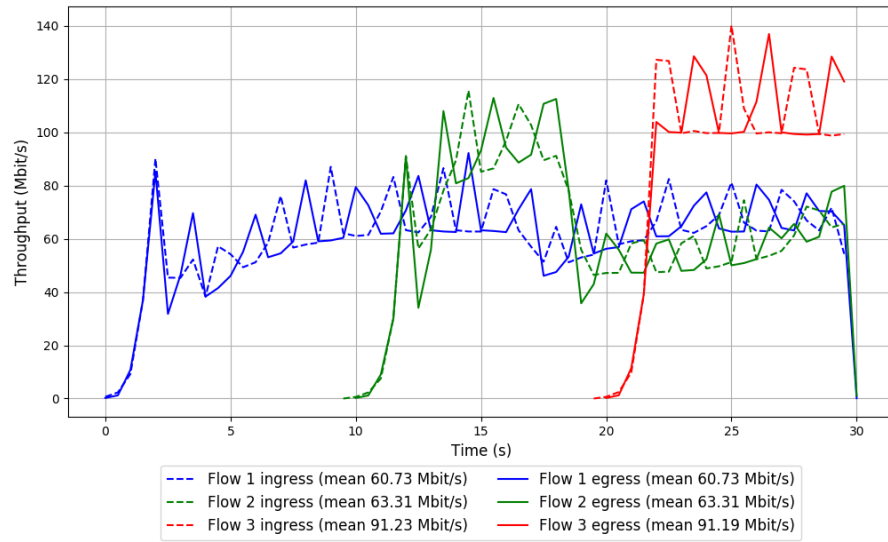
-- Flow 3:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 123.673 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-22 04:34:20

End at: 2017-09-22 04:34:50

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.63 Mbit/s

95th percentile per-packet one-way delay: 116.485 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 116.655 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.60 Mbit/s

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

Loss rate: 0.02%

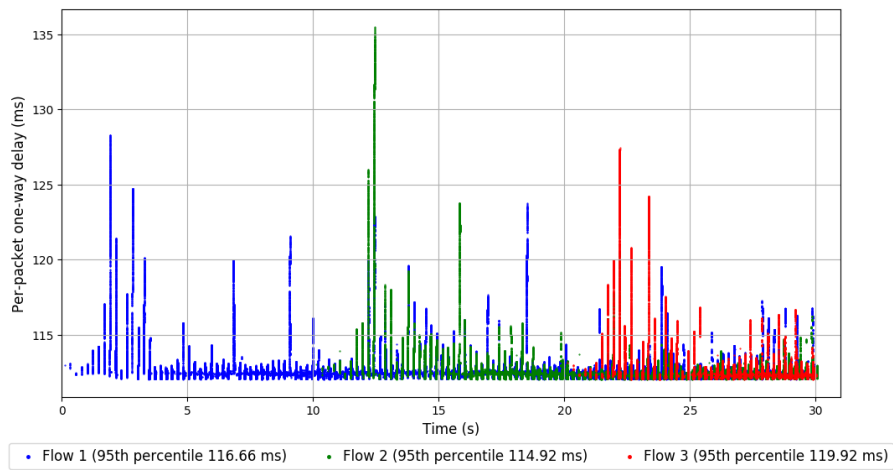
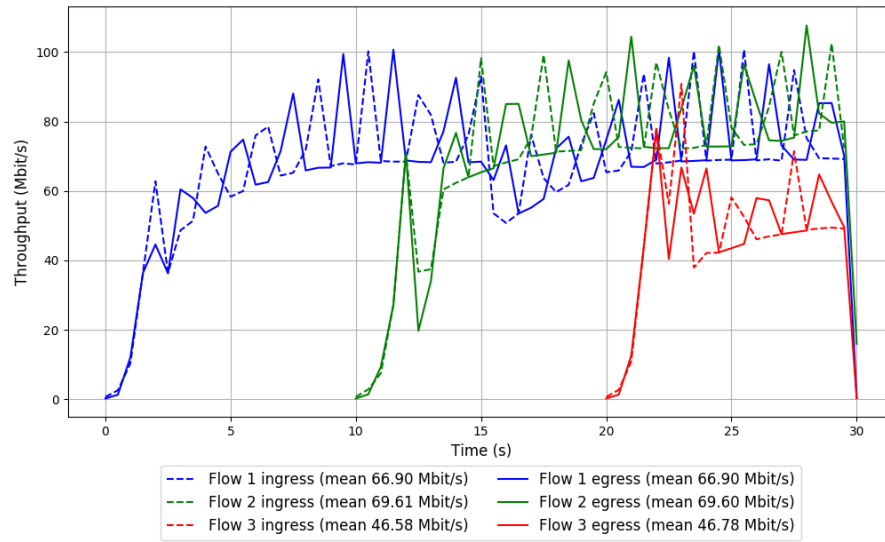
-- Flow 3:

Average throughput: 46.78 Mbit/s

95th percentile per-packet one-way delay: 119.924 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-22 04:48:21

End at: 2017-09-22 04:48:51

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.44 Mbit/s

95th percentile per-packet one-way delay: 116.684 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 116.318 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 117.105 ms

Loss rate: 0.00%

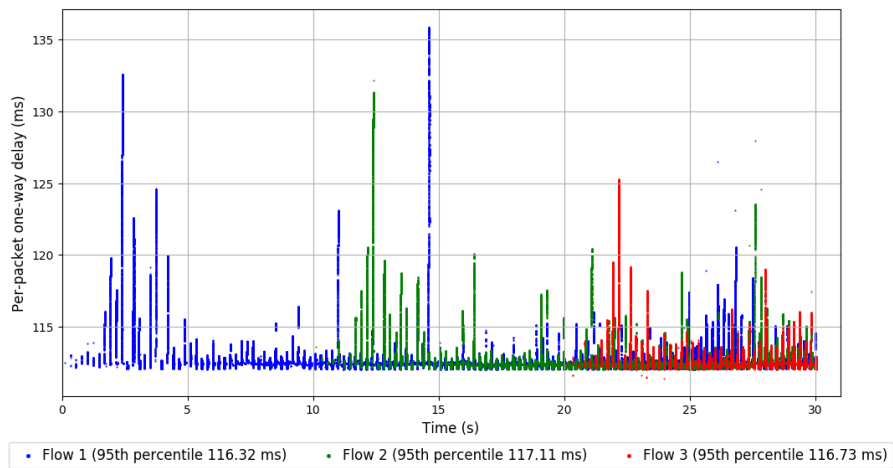
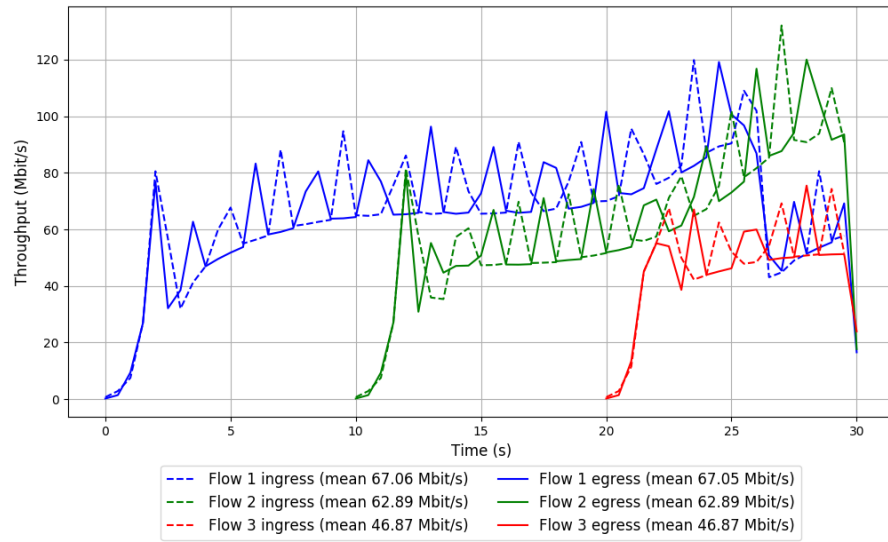
-- Flow 3:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 116.728 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-22 05:01:28

End at: 2017-09-22 05:01:58

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.38 Mbit/s

95th percentile per-packet one-way delay: 121.024 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 52.51 Mbit/s

95th percentile per-packet one-way delay: 118.084 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 122.787 ms

Loss rate: 0.01%

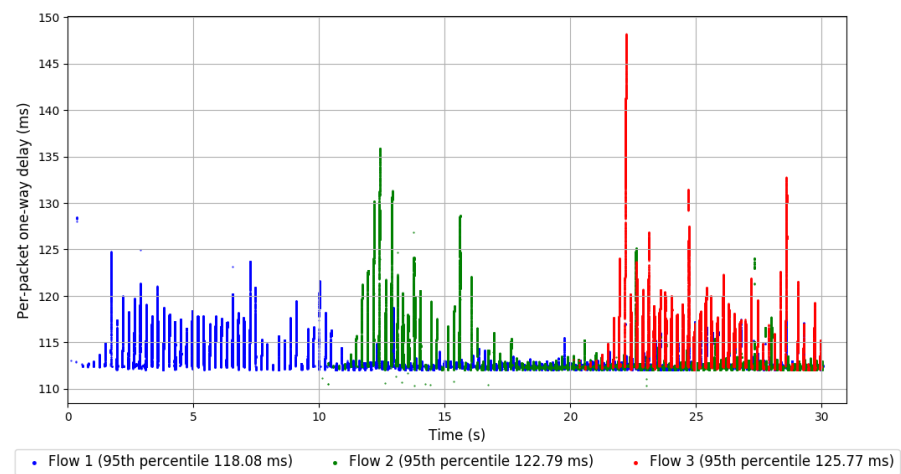
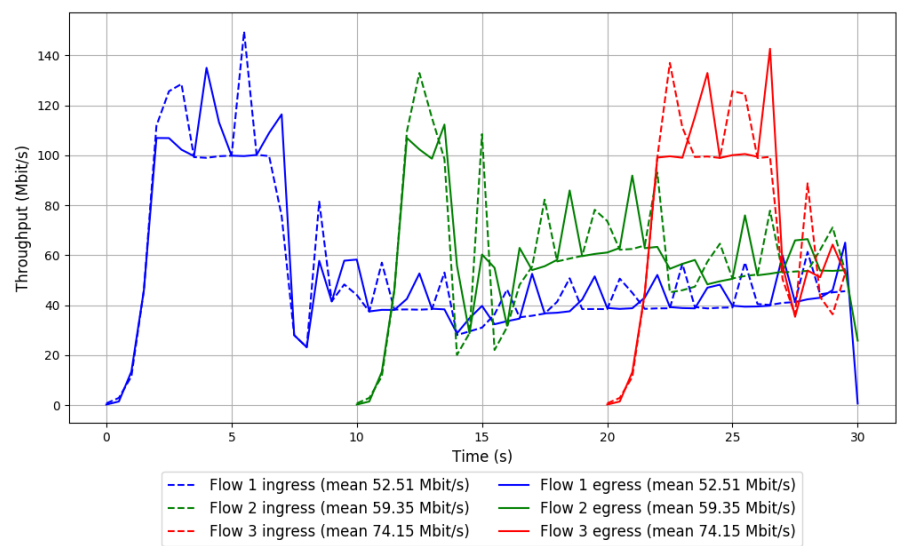
-- Flow 3:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 125.772 ms

Loss rate: 0.02%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-22 05:14:33

End at: 2017-09-22 05:15:03

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 119.359 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 39.33 Mbit/s

95th percentile per-packet one-way delay: 119.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.10 Mbit/s

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

Loss rate: 0.01%

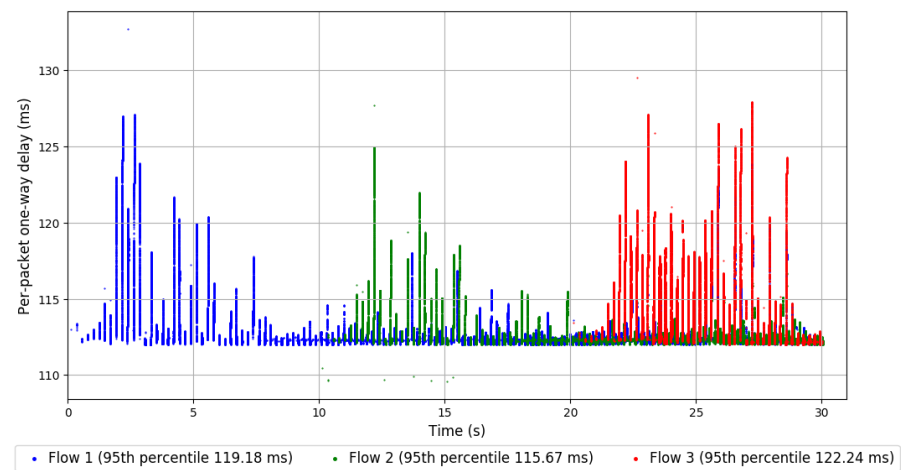
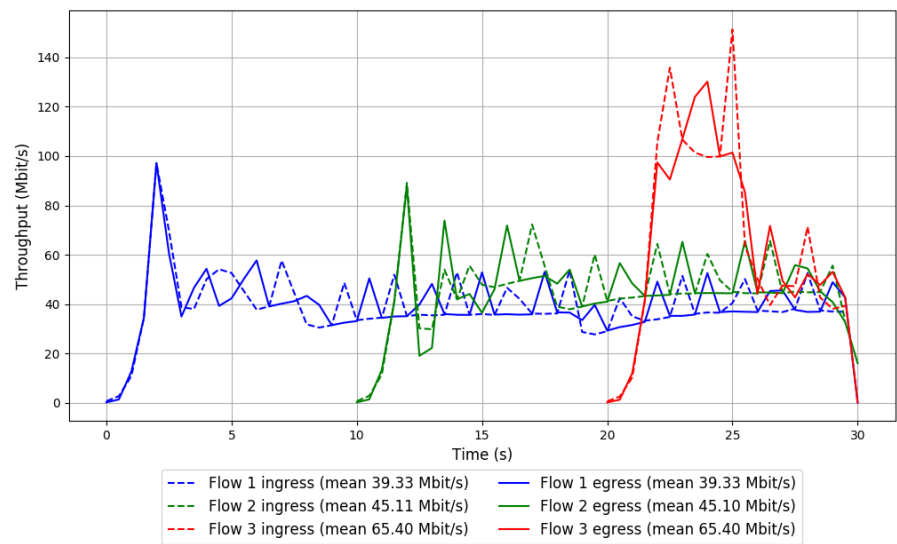
-- Flow 3:

Average throughput: 65.40 Mbit/s

95th percentile per-packet one-way delay: 122.238 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

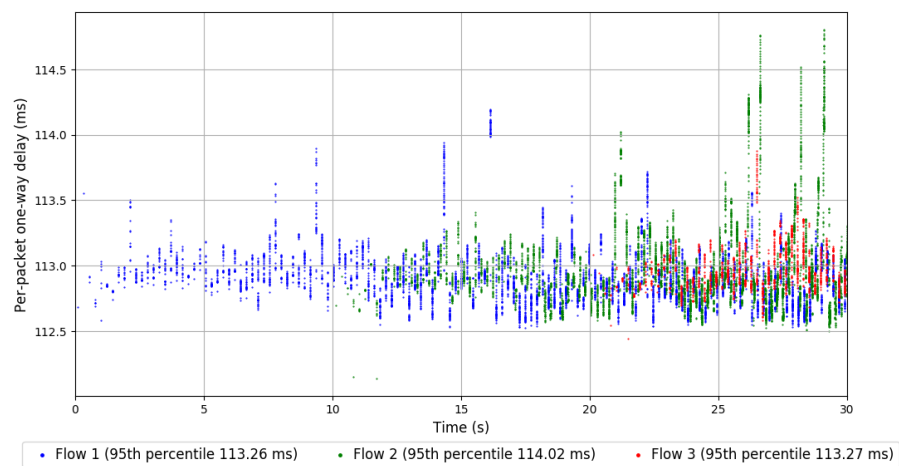
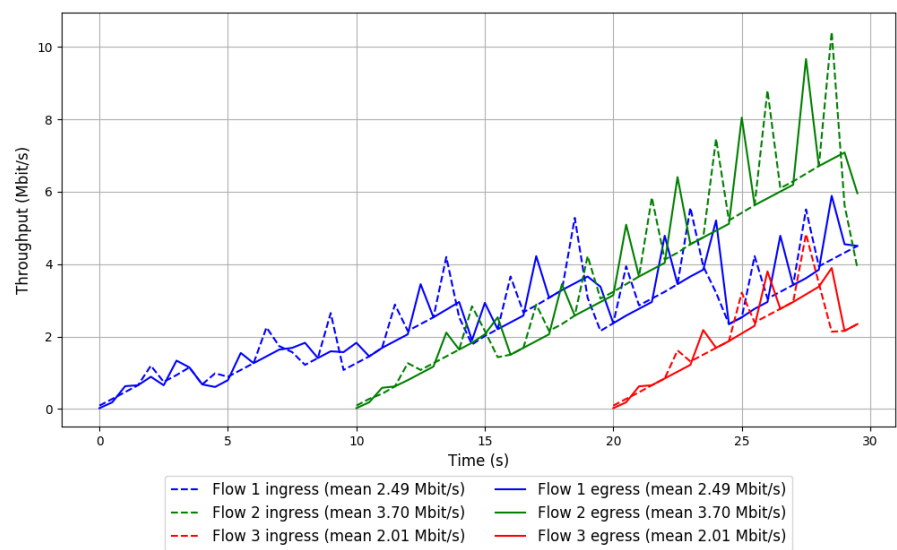


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-22 03:07:20
End at: 2017-09-22 03:07:50

# Below is generated by plot.py at 2017-09-22 06:14:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 113.552 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 113.260 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 114.015 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 113.270 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

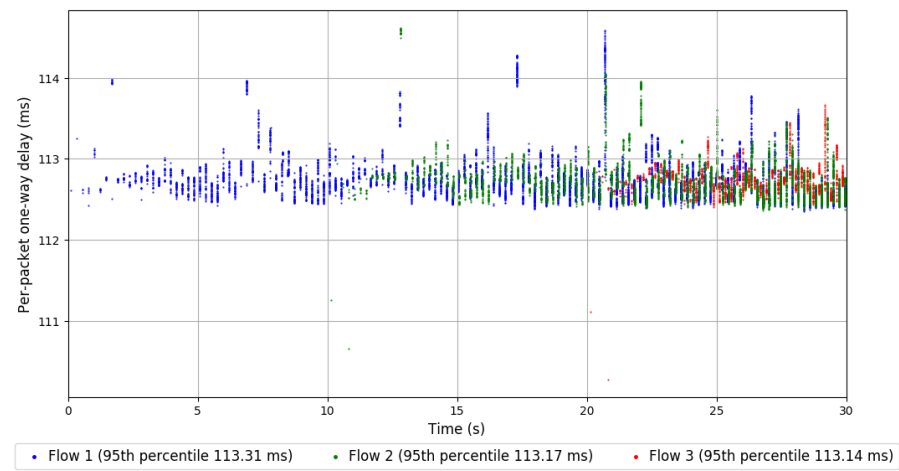
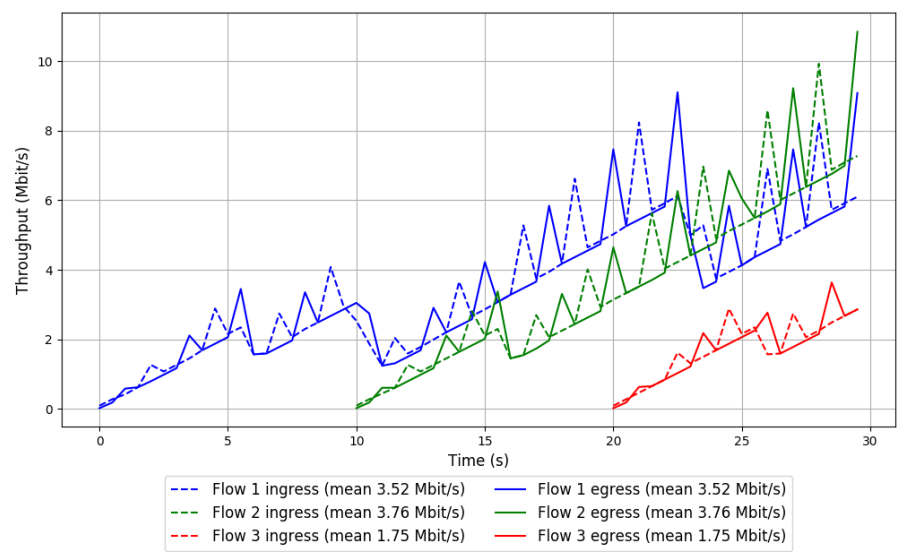


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-22 03:20:40
End at: 2017-09-22 03:21:10

# Below is generated by plot.py at 2017-09-22 06:14:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 113.241 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 113.305 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 113.171 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 113.142 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-22 03:34:23

End at: 2017-09-22 03:34:53

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.05 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 113.529 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 113.290 ms

Loss rate: 0.00%

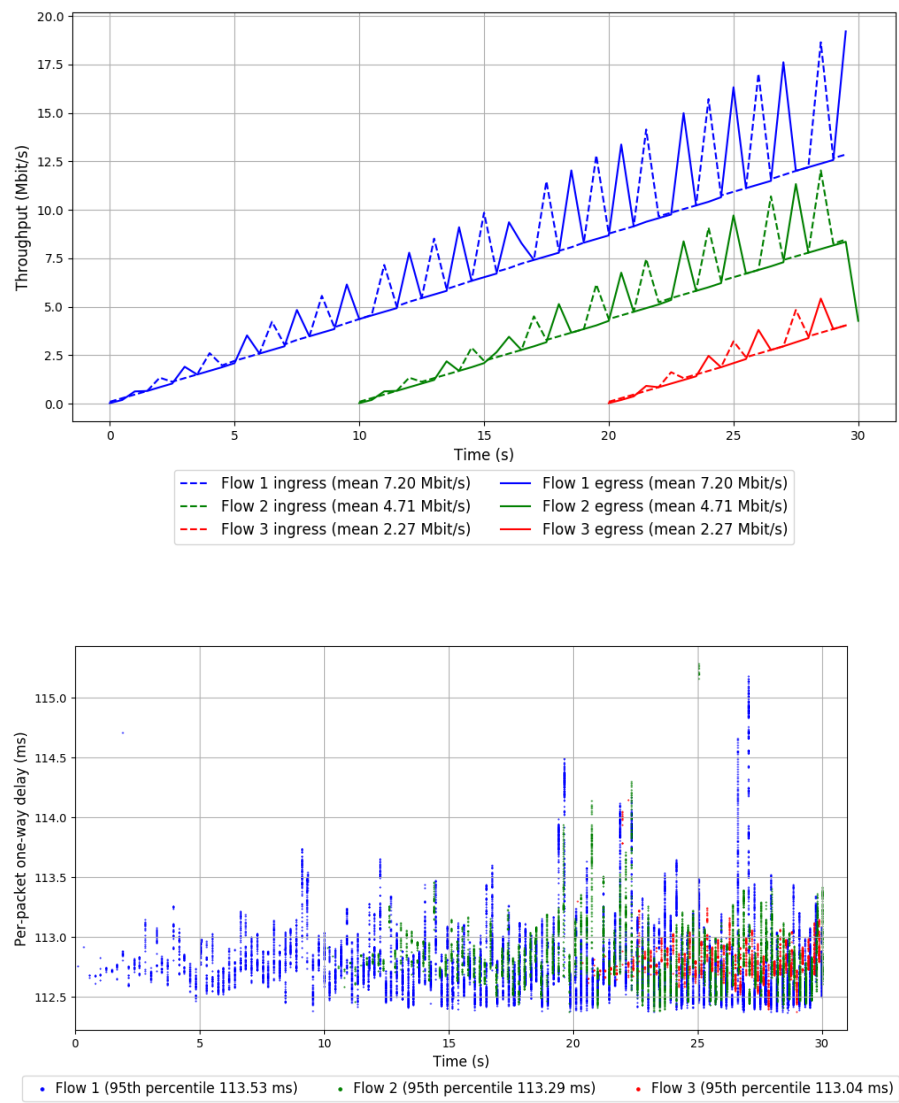
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 113.041 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-22 03:47:53

End at: 2017-09-22 03:48:23

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 111.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 111.827 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 111.469 ms

Loss rate: 0.00%

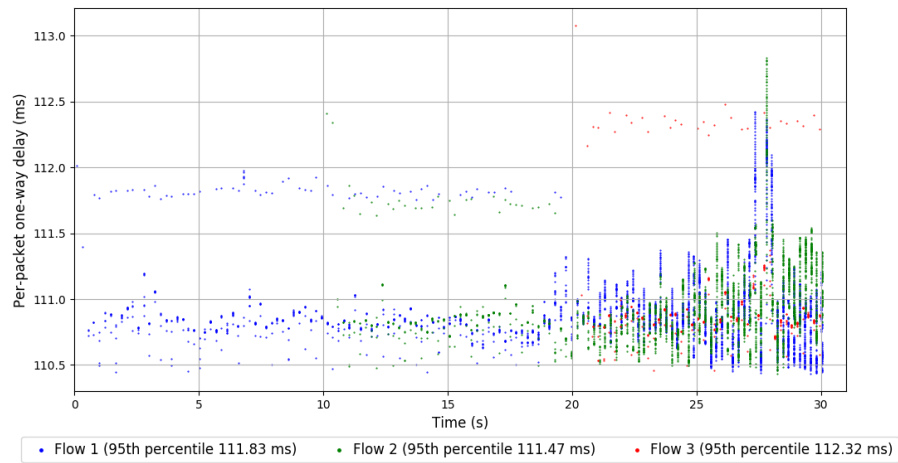
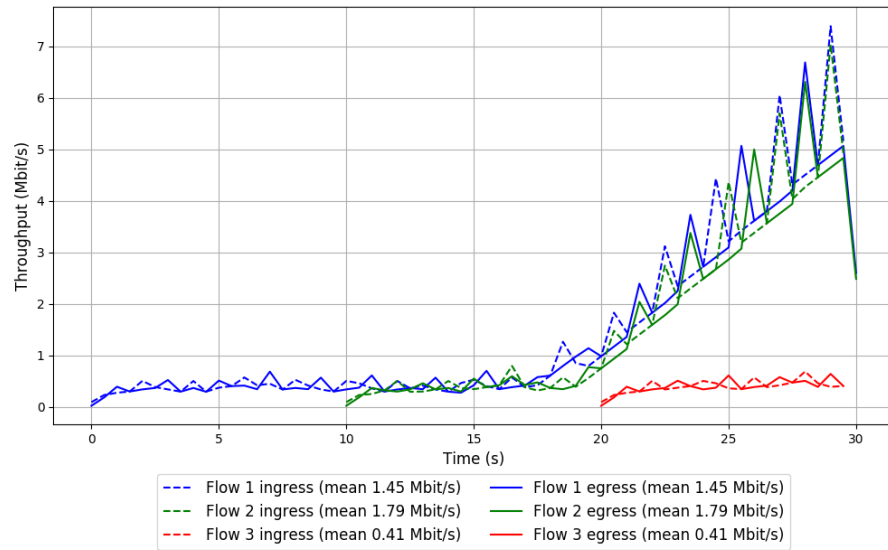
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 112.318 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-22 04:01:13

End at: 2017-09-22 04:01:43

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 111.209 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 111.246 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 111.171 ms

Loss rate: 0.55%

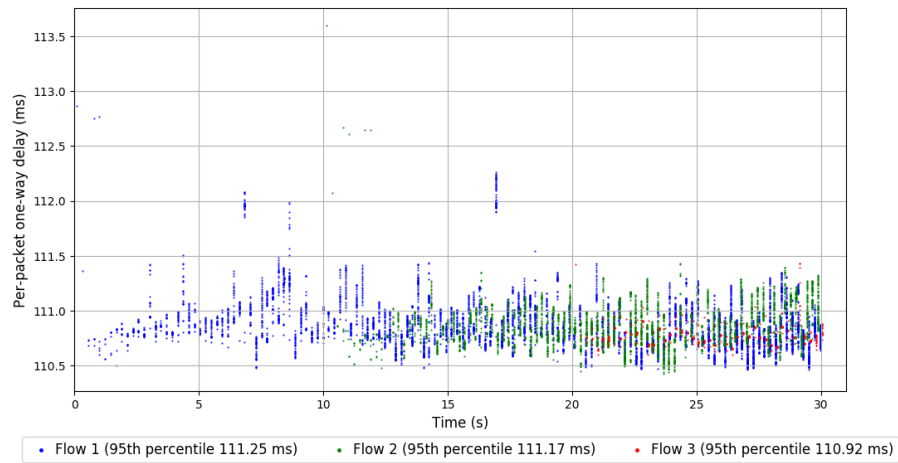
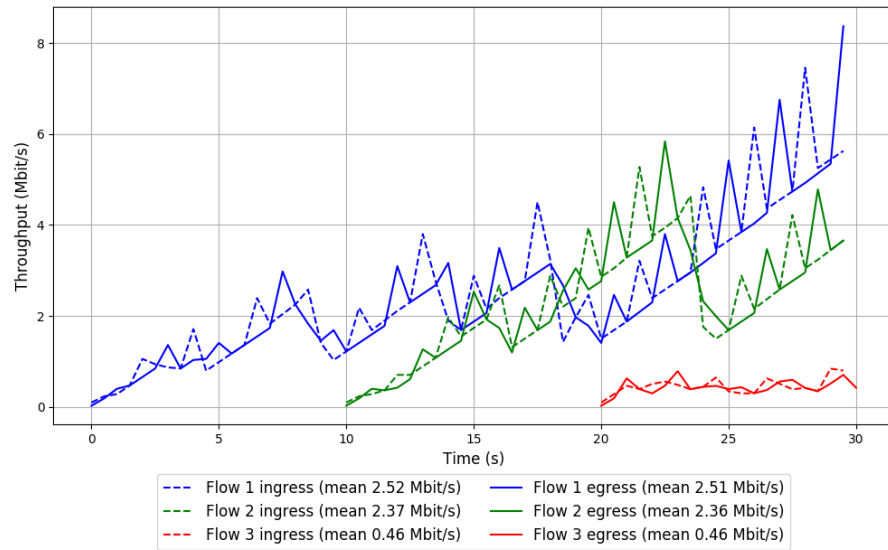
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 110.922 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-22 04:15:05

End at: 2017-09-22 04:15:35

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.48 Mbit/s

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

Loss rate: 0.29%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 111.350 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 111.603 ms

Loss rate: 0.00%

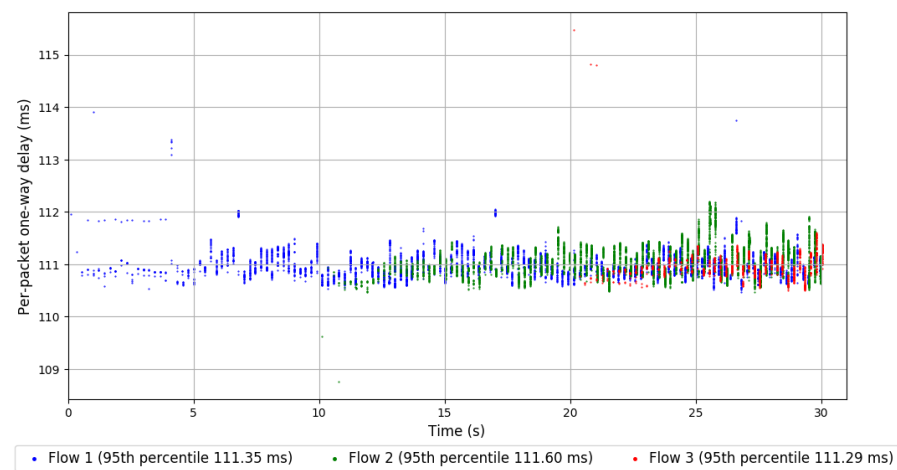
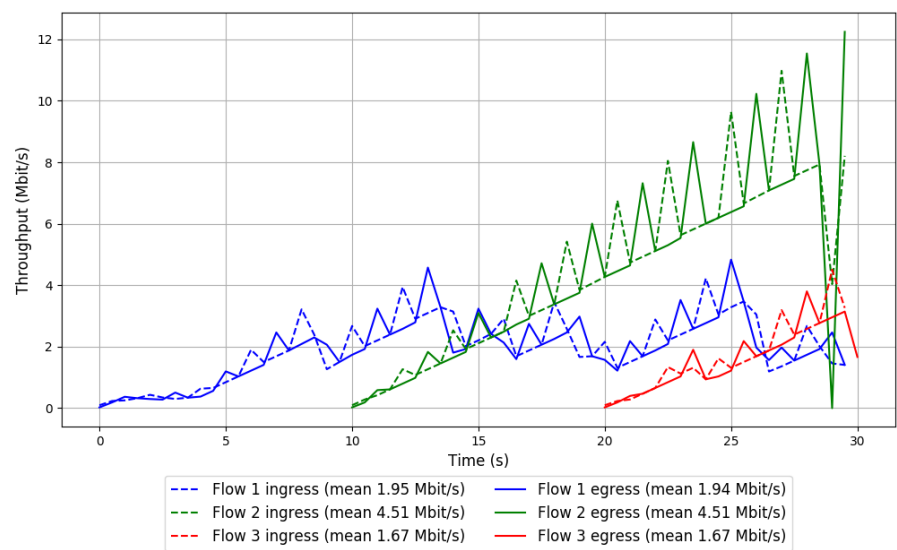
-- Flow 3:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 111.286 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-22 04:28:58

End at: 2017-09-22 04:29:28

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 1.68 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 112.875 ms

Loss rate: 0.15%

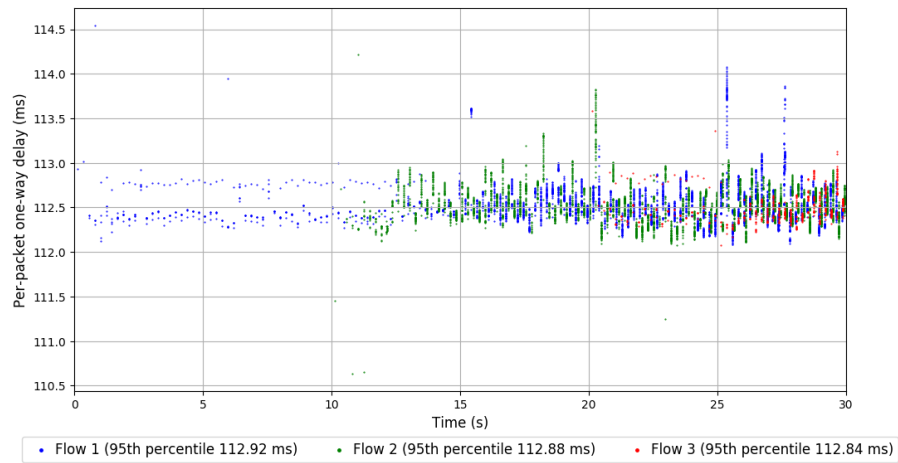
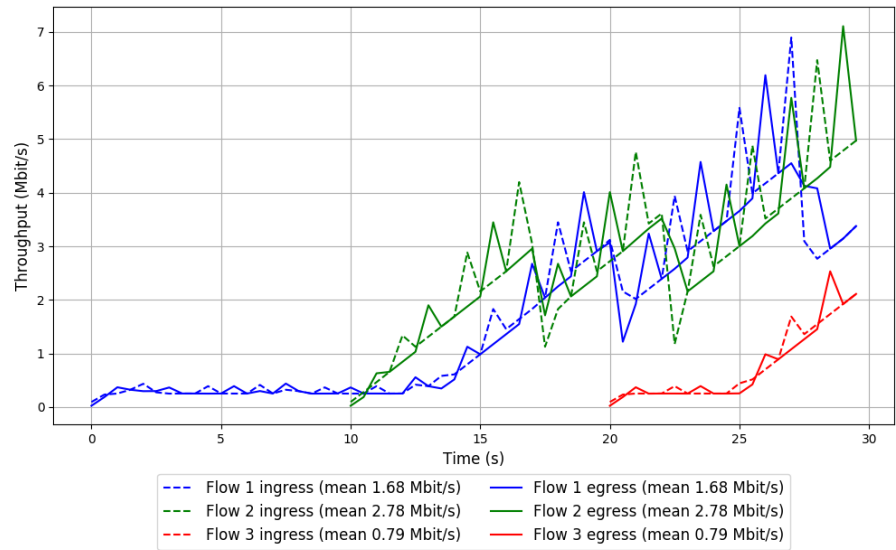
-- Flow 3:

Average throughput: 0.79 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-22 04:42:46

End at: 2017-09-22 04:43:16

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 113.057 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 113.151 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.56 Mbit/s

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

Loss rate: 0.00%

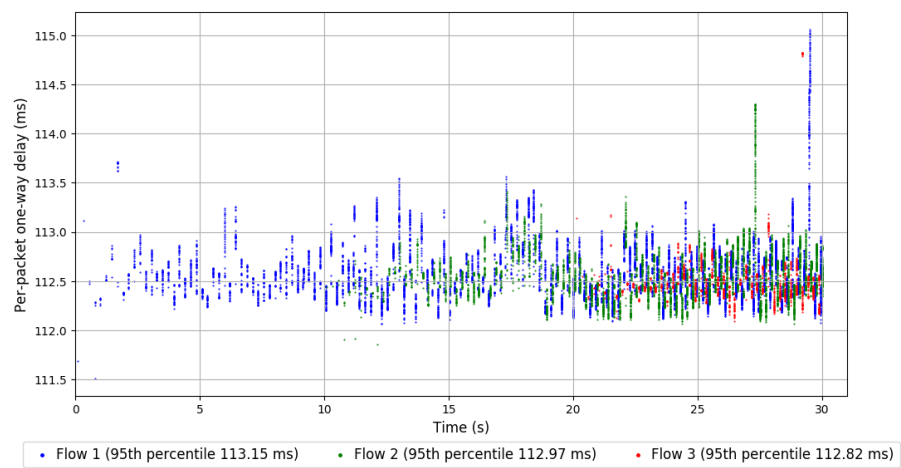
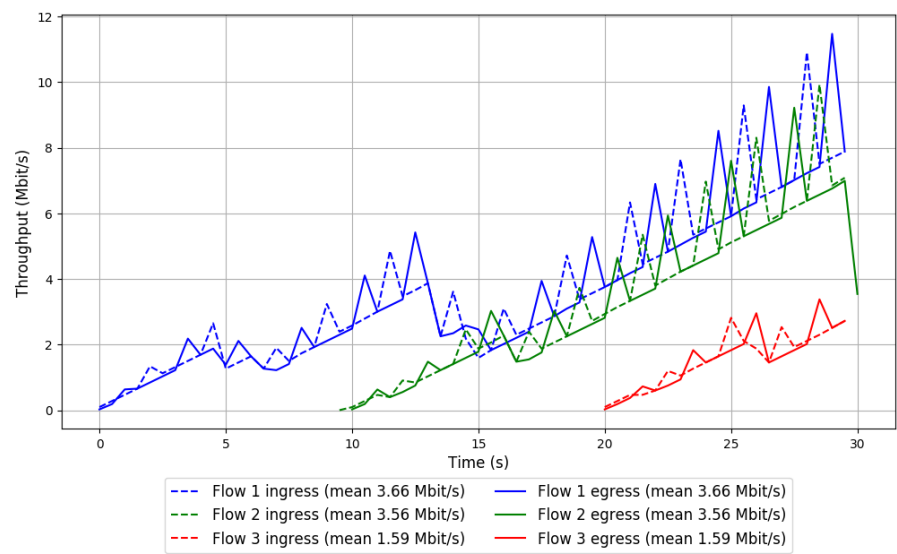
-- Flow 3:

Average throughput: 1.59 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-22 04:56:06

End at: 2017-09-22 04:56:36

Below is generated by plot.py at 2017-09-22 06:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.58 Mbit/s

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

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 113.086 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 4.23 Mbit/s

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

Loss rate: 0.00%

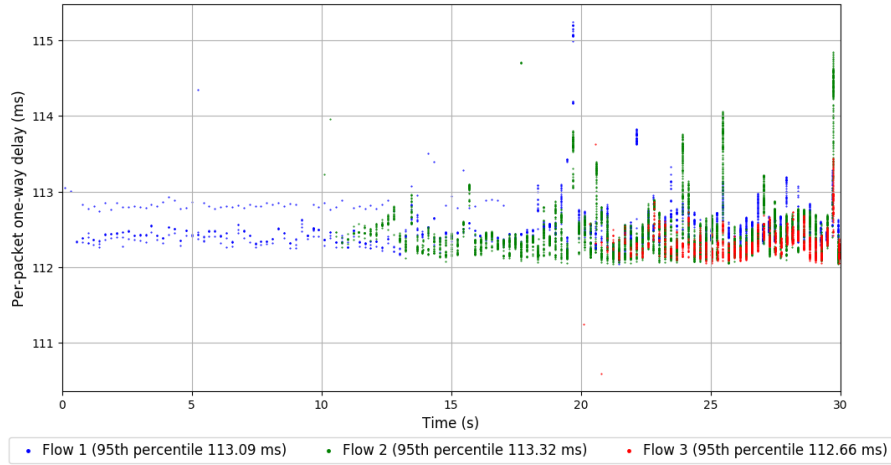
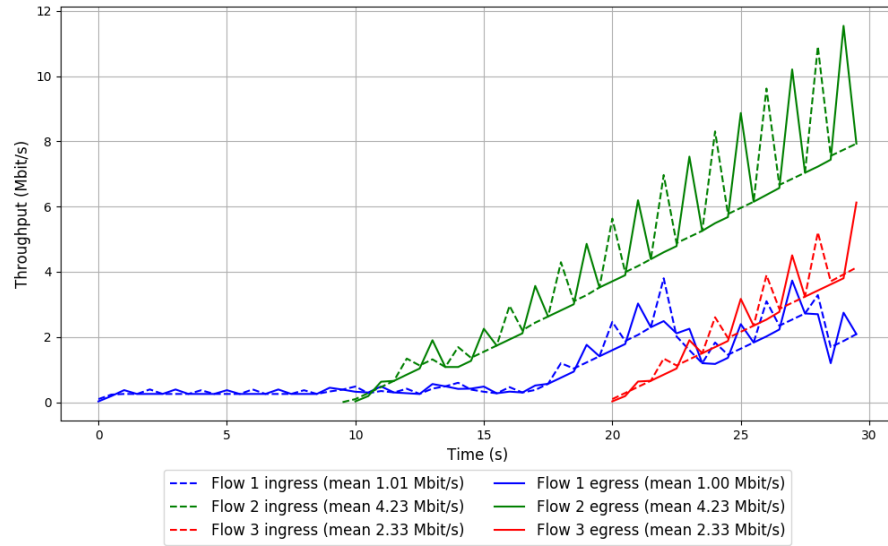
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 112.657 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-22 05:09:14

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

Run 10: Report of LEDBAT — Data Link

Figure is missing

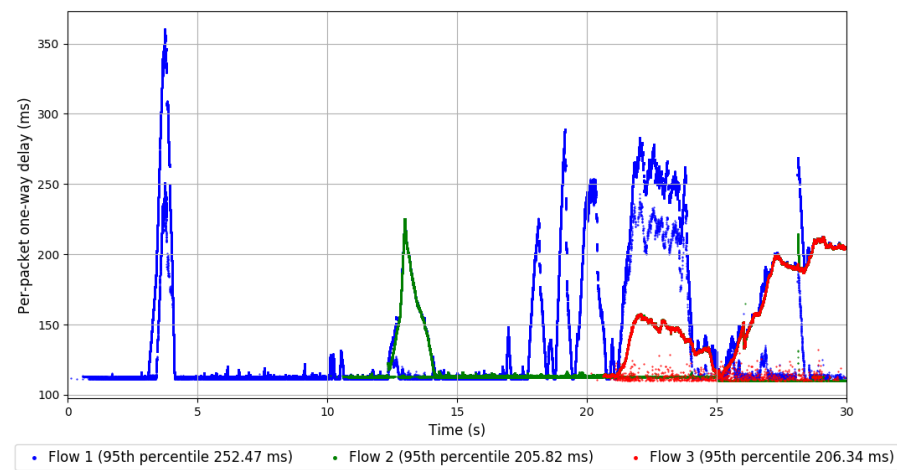
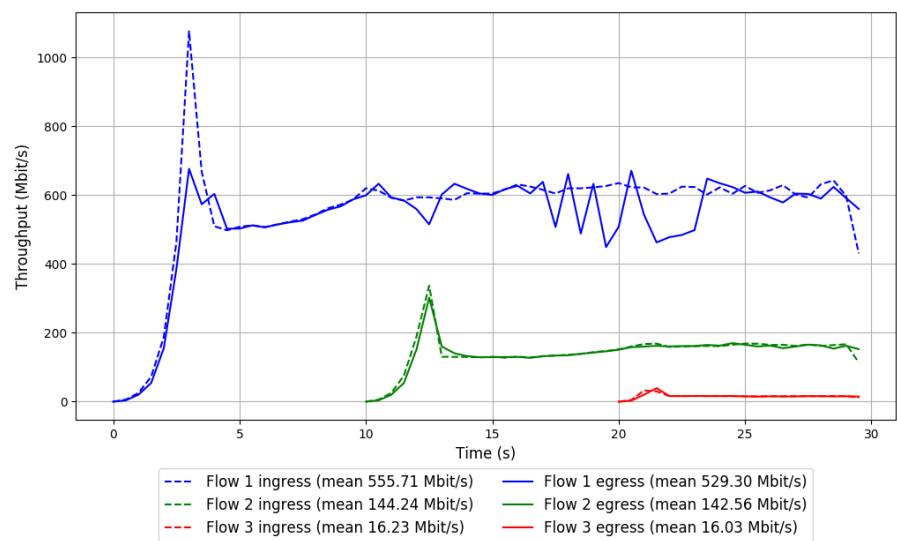
Figure is missing

```
Run 1: Statistics of PCC

Start at: 2017-09-22 03:18:08
End at: 2017-09-22 03:18:38

# Below is generated by plot.py at 2017-09-22 06:23:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 629.25 Mbit/s
95th percentile per-packet one-way delay: 249.045 ms
Loss rate: 4.21%
-- Flow 1:
Average throughput: 529.30 Mbit/s
95th percentile per-packet one-way delay: 252.472 ms
Loss rate: 4.76%
-- Flow 2:
Average throughput: 142.56 Mbit/s
95th percentile per-packet one-way delay: 205.816 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 206.337 ms
Loss rate: 1.29%
```

Run 1: Report of PCC — Data Link

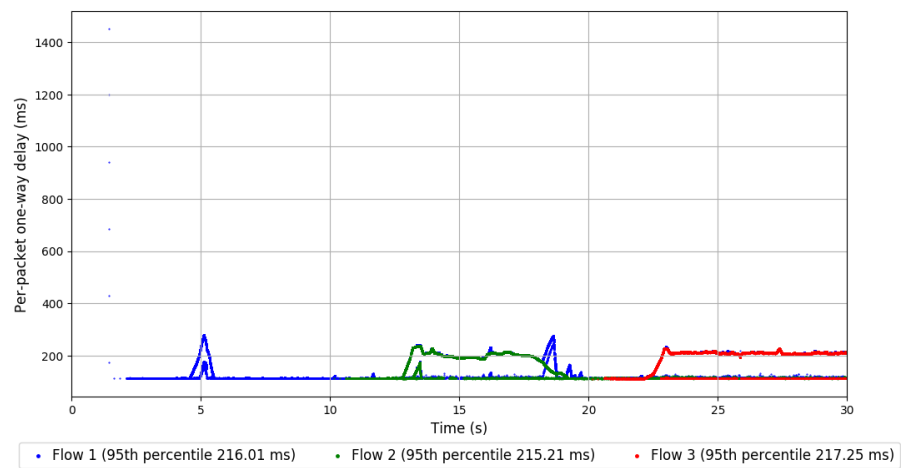
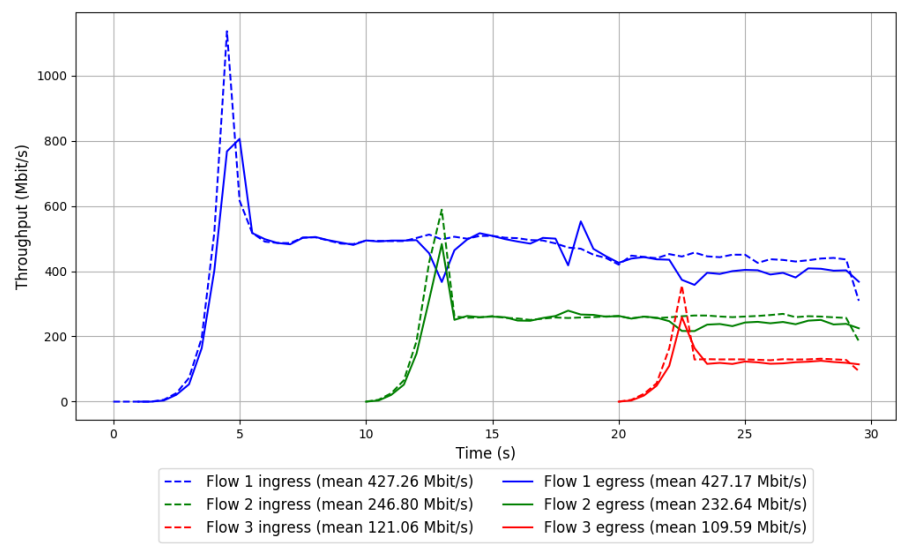


```
Run 2: Statistics of PCC

Start at: 2017-09-22 03:31:51
End at: 2017-09-22 03:32:21

# Below is generated by plot.py at 2017-09-22 06:23:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 626.75 Mbit/s
95th percentile per-packet one-way delay: 215.840 ms
Loss rate: 5.14%
-- Flow 1:
Average throughput: 427.17 Mbit/s
95th percentile per-packet one-way delay: 216.008 ms
Loss rate: 4.50%
-- Flow 2:
Average throughput: 232.64 Mbit/s
95th percentile per-packet one-way delay: 215.208 ms
Loss rate: 5.74%
-- Flow 3:
Average throughput: 109.59 Mbit/s
95th percentile per-packet one-way delay: 217.246 ms
Loss rate: 9.52%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-22 03:45:19

End at: 2017-09-22 03:45:49

Below is generated by plot.py at 2017-09-22 06:23:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 608.73 Mbit/s

95th percentile per-packet one-way delay: 318.279 ms

Loss rate: 4.46%

-- Flow 1:

Average throughput: 510.14 Mbit/s

95th percentile per-packet one-way delay: 321.458 ms

Loss rate: 4.97%

-- Flow 2:

Average throughput: 122.87 Mbit/s

95th percentile per-packet one-way delay: 212.259 ms

Loss rate: 1.97%

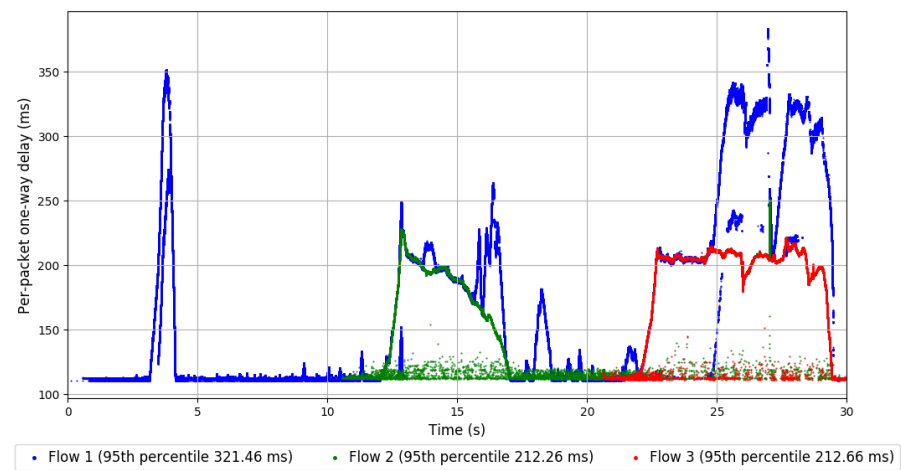
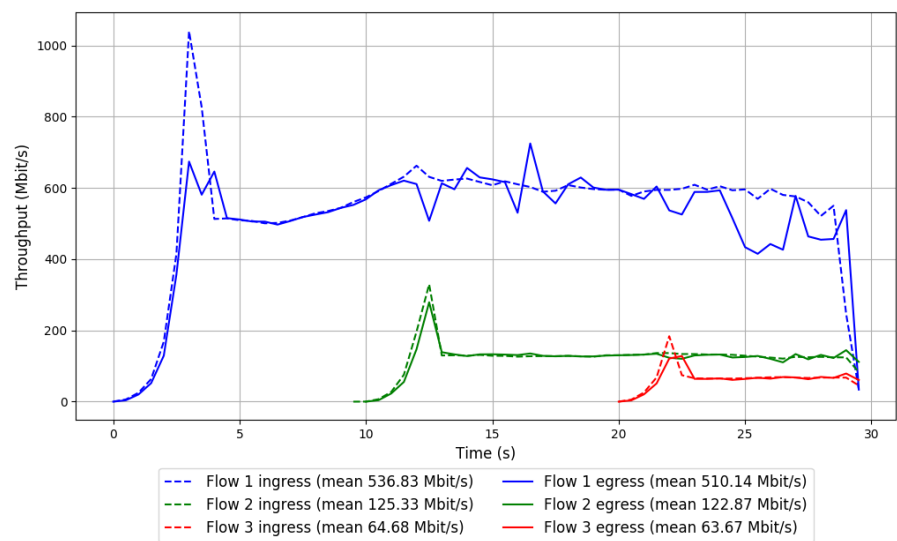
-- Flow 3:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 212.655 ms

Loss rate: 1.55%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-22 03:58:39

End at: 2017-09-22 03:59:09

Below is generated by plot.py at 2017-09-22 06:24:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 642.42 Mbit/s

95th percentile per-packet one-way delay: 222.208 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 539.99 Mbit/s

95th percentile per-packet one-way delay: 223.046 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 123.21 Mbit/s

95th percentile per-packet one-way delay: 219.576 ms

Loss rate: 3.07%

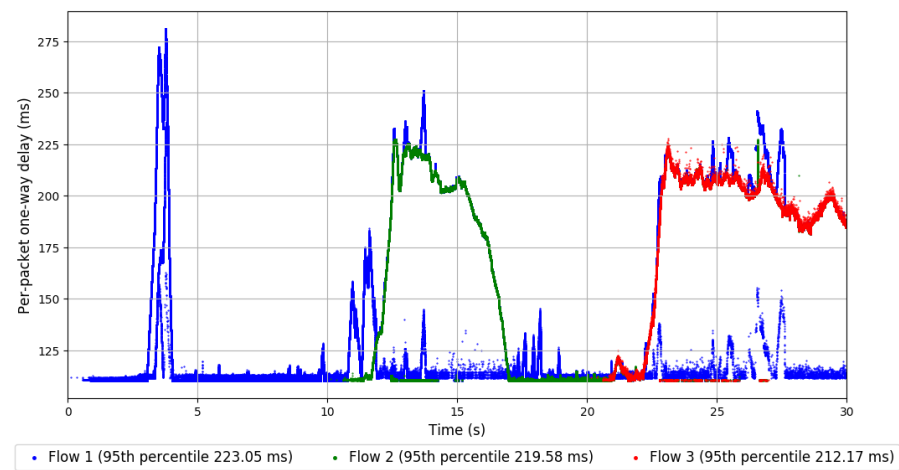
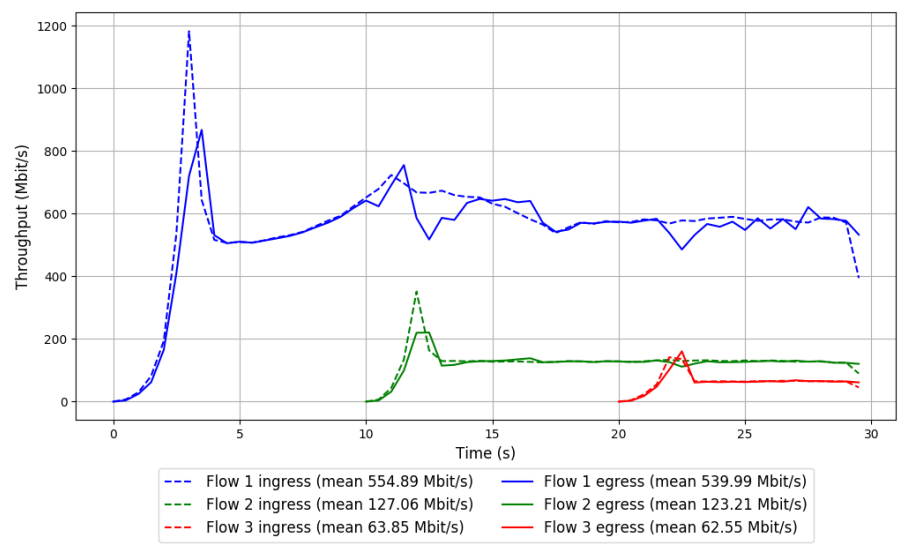
-- Flow 3:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 212.171 ms

Loss rate: 2.02%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-22 04:12:32

End at: 2017-09-22 04:13:02

Below is generated by plot.py at 2017-09-22 06:24:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 626.84 Mbit/s

95th percentile per-packet one-way delay: 231.185 ms

Loss rate: 2.63%

-- Flow 1:

Average throughput: 521.52 Mbit/s

95th percentile per-packet one-way delay: 242.621 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 129.04 Mbit/s

95th percentile per-packet one-way delay: 208.799 ms

Loss rate: 2.23%

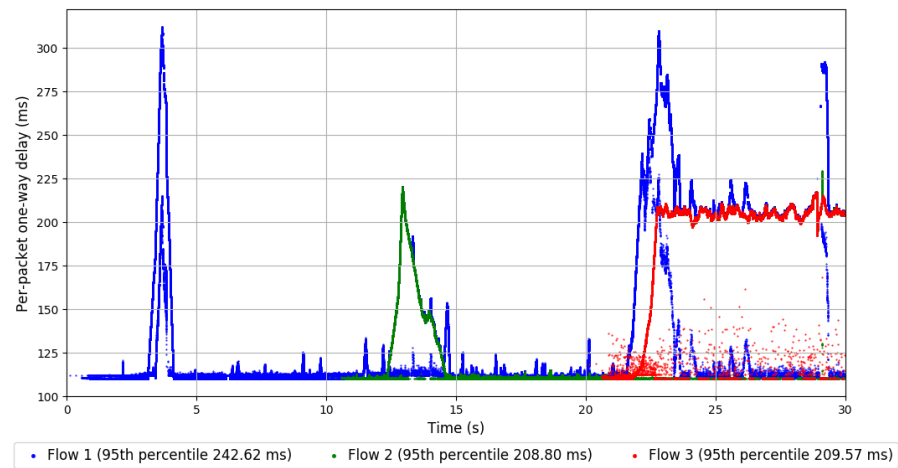
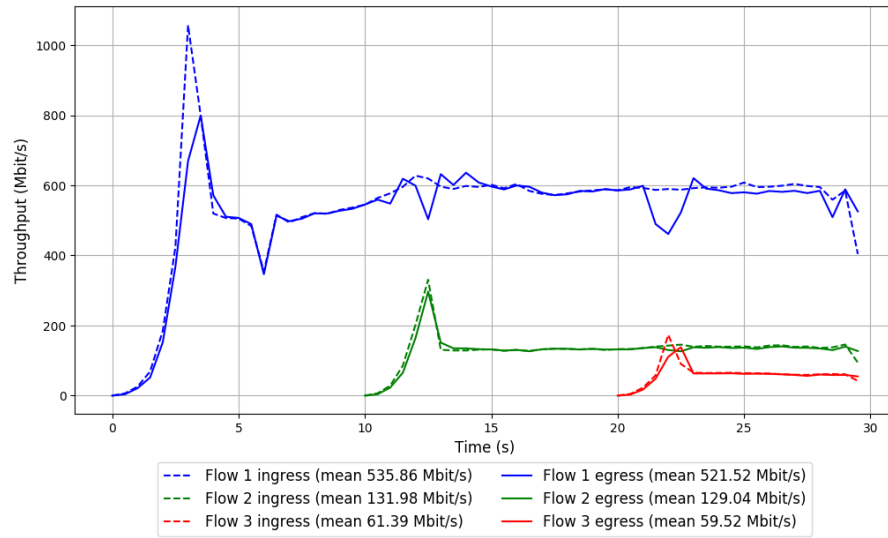
-- Flow 3:

Average throughput: 59.52 Mbit/s

95th percentile per-packet one-way delay: 209.566 ms

Loss rate: 3.10%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-22 04:26:27

End at: 2017-09-22 04:26:57

Below is generated by plot.py at 2017-09-22 06:24:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 647.34 Mbit/s

95th percentile per-packet one-way delay: 263.185 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 486.81 Mbit/s

95th percentile per-packet one-way delay: 273.125 ms

Loss rate: 3.20%

-- Flow 2:

Average throughput: 239.36 Mbit/s

95th percentile per-packet one-way delay: 208.819 ms

Loss rate: 2.98%

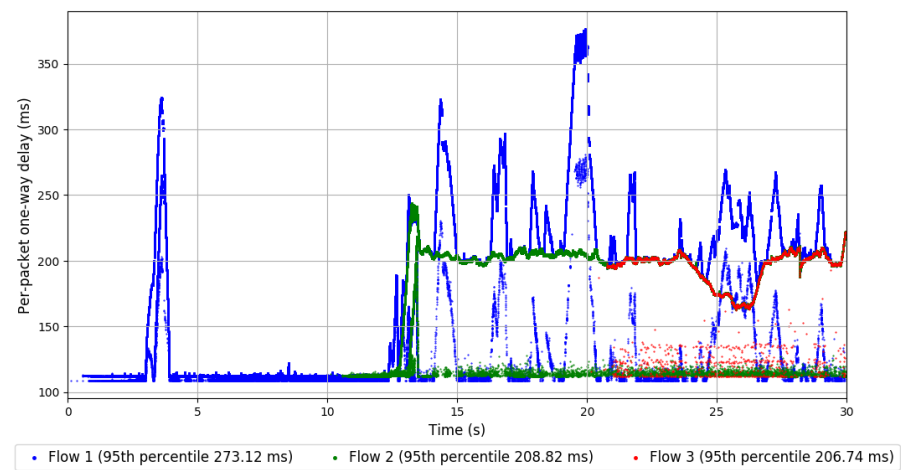
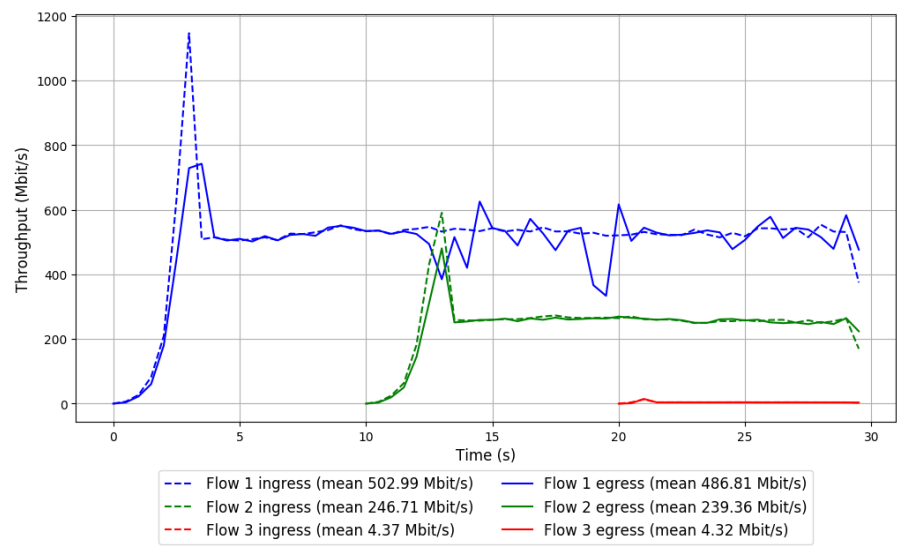
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 206.744 ms

Loss rate: 1.29%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-22 04:40:14

End at: 2017-09-22 04:40:44

Below is generated by plot.py at 2017-09-22 06:24:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 568.41 Mbit/s

95th percentile per-packet one-way delay: 212.163 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 451.84 Mbit/s

95th percentile per-packet one-way delay: 228.993 ms

Loss rate: 3.21%

-- Flow 2:

Average throughput: 143.97 Mbit/s

95th percentile per-packet one-way delay: 205.518 ms

Loss rate: 0.46%

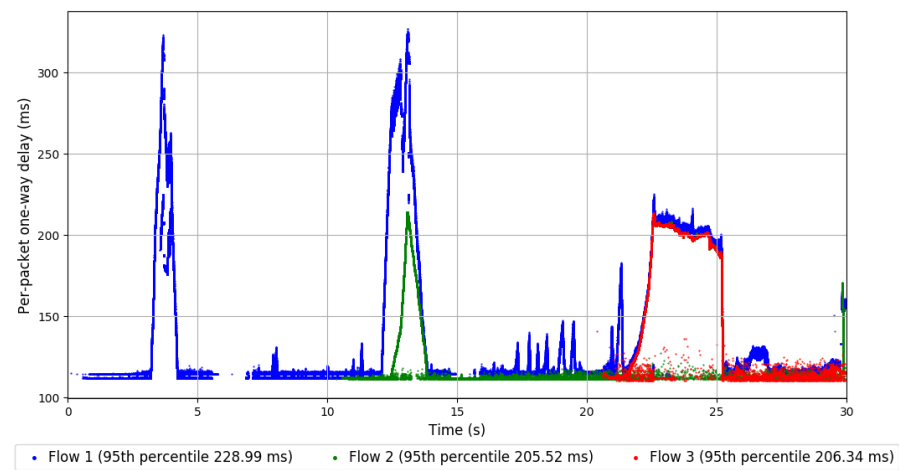
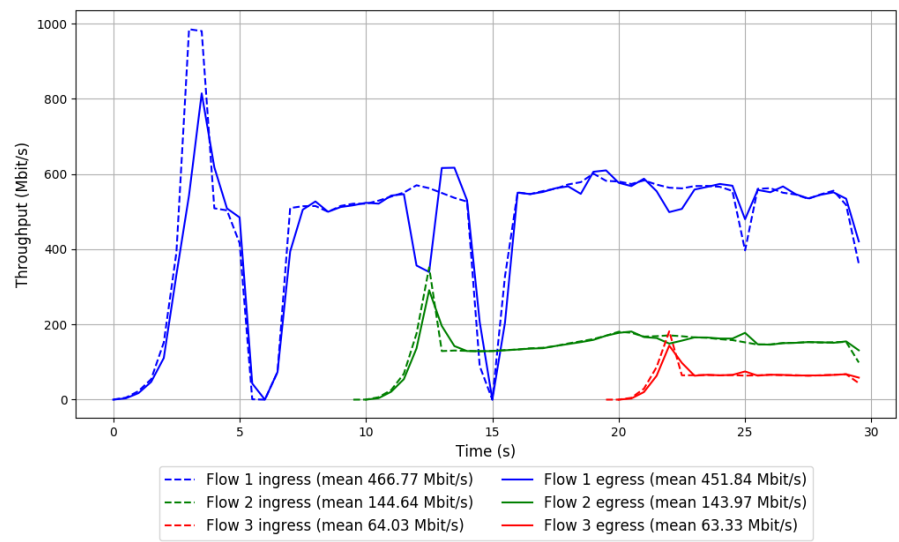
-- Flow 3:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 206.340 ms

Loss rate: 1.13%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-22 04:53:33

End at: 2017-09-22 04:54:03

Below is generated by plot.py at 2017-09-22 06:24:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.60 Mbit/s

95th percentile per-packet one-way delay: 291.198 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 514.59 Mbit/s

95th percentile per-packet one-way delay: 303.330 ms

Loss rate: 3.15%

-- Flow 2:

Average throughput: 125.16 Mbit/s

95th percentile per-packet one-way delay: 207.222 ms

Loss rate: 1.28%

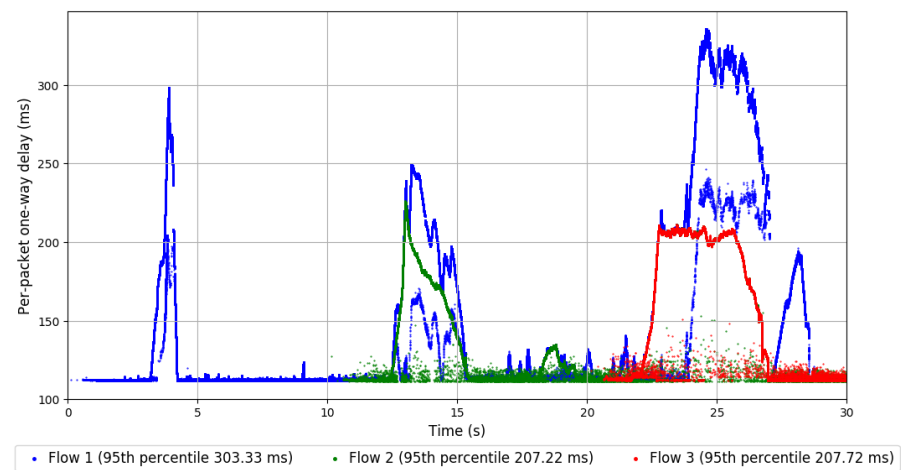
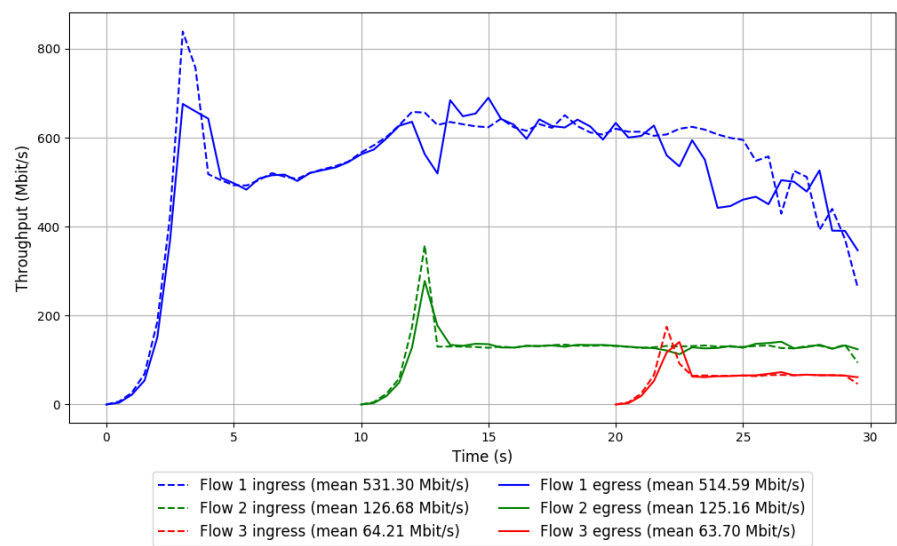
-- Flow 3:

Average throughput: 63.70 Mbit/s

95th percentile per-packet one-way delay: 207.716 ms

Loss rate: 0.84%

Run 8: Report of PCC — Data Link

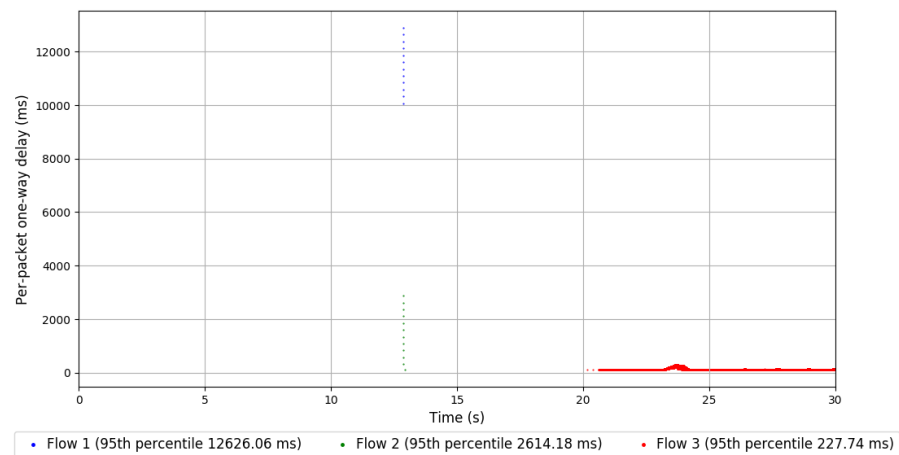
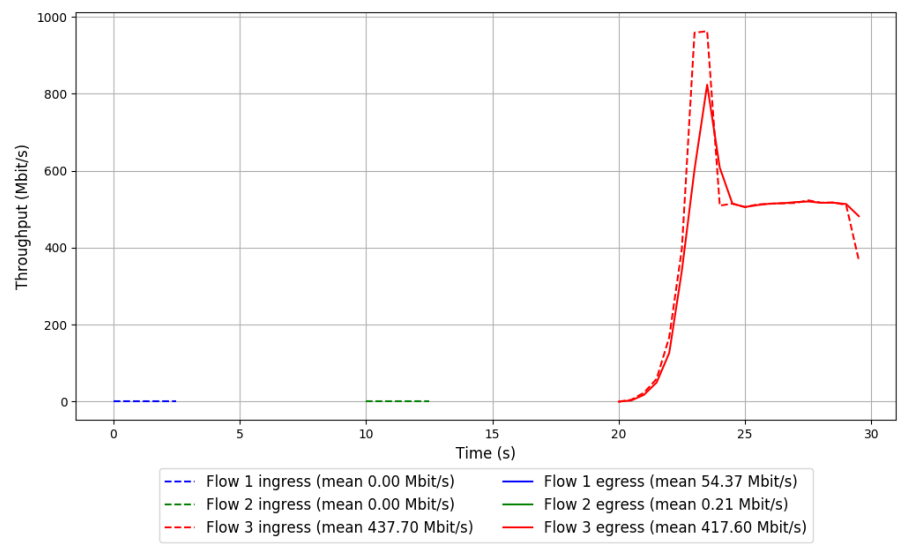


Run 9: Statistics of PCC

Start at: 2017-09-22 05:07:06

End at: 2017-09-22 05:07:36

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-22 05:19:36

End at: 2017-09-22 05:20:06

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.89 Mbit/s

95th percentile per-packet one-way delay: 211.531 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 507.09 Mbit/s

95th percentile per-packet one-way delay: 211.264 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 137.92 Mbit/s

95th percentile per-packet one-way delay: 211.186 ms

Loss rate: 1.07%

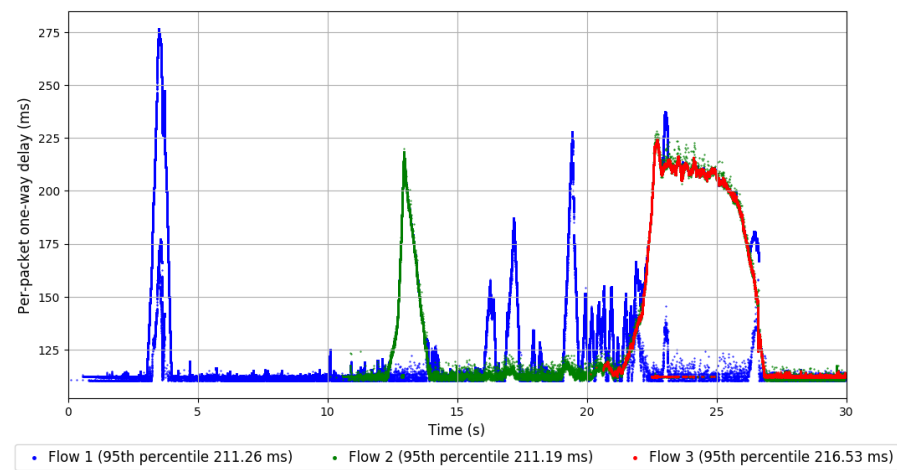
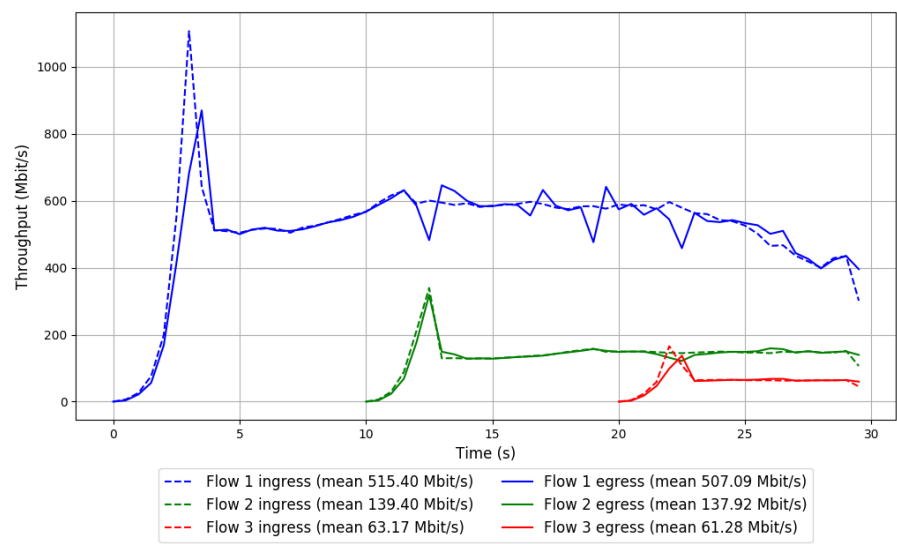
-- Flow 3:

Average throughput: 61.28 Mbit/s

95th percentile per-packet one-way delay: 216.534 ms

Loss rate: 3.03%

Run 10: Report of PCC — Data Link

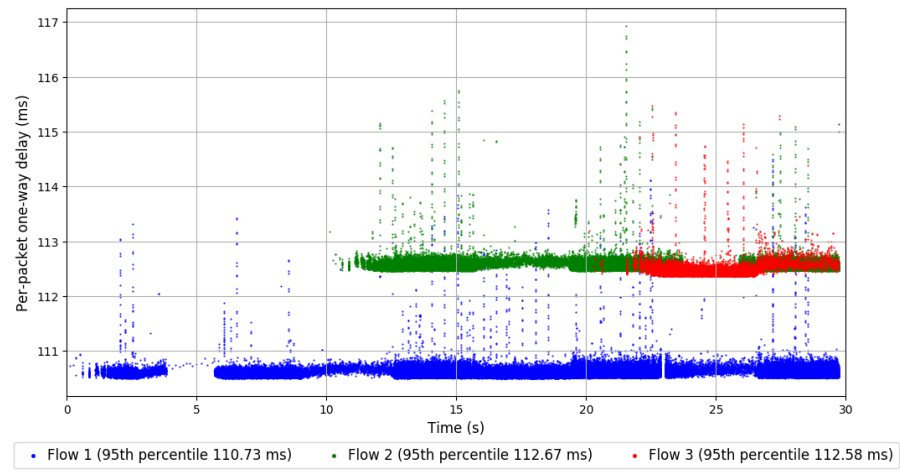
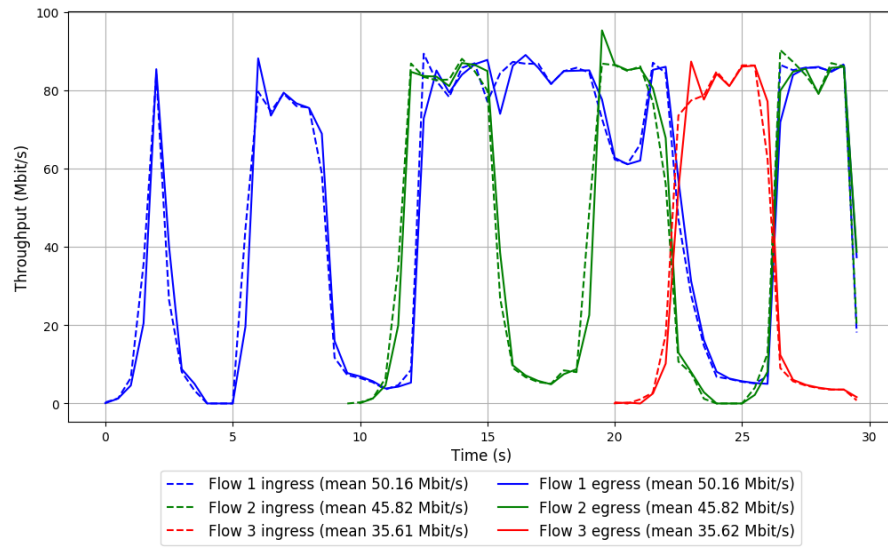


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-22 03:09:21
End at: 2017-09-22 03:09:51

# Below is generated by plot.py at 2017-09-22 06:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 112.620 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 110.730 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.82 Mbit/s
95th percentile per-packet one-way delay: 112.669 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 35.62 Mbit/s
95th percentile per-packet one-way delay: 112.579 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-22 03:22:42

End at: 2017-09-22 03:23:12

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.31 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 110.127 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.33 Mbit/s

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

Loss rate: 0.00%

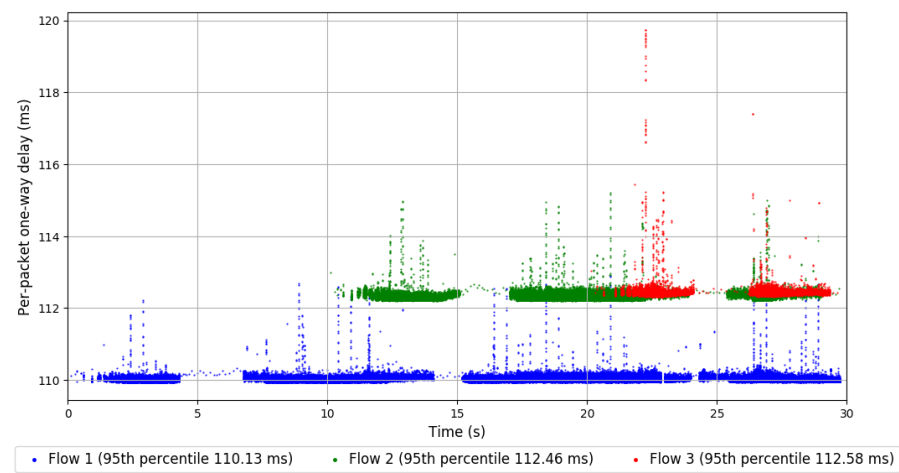
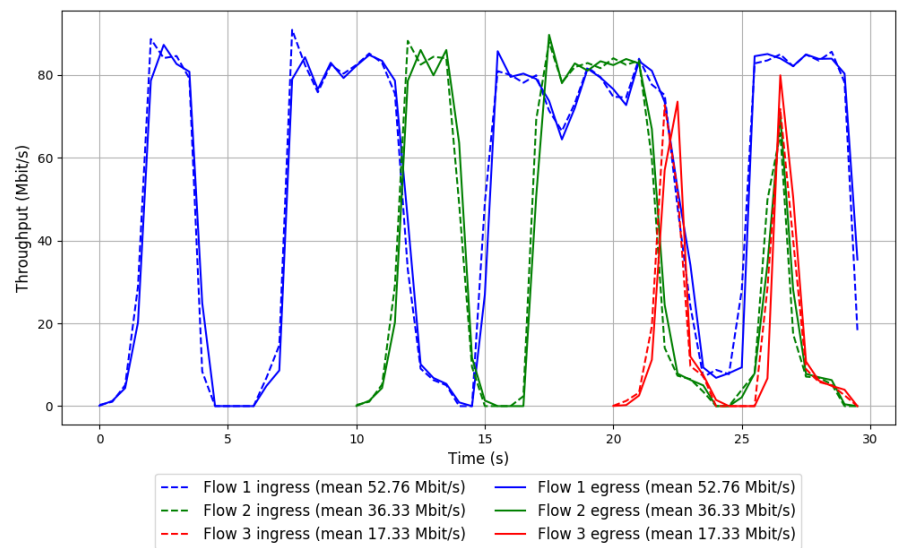
-- Flow 3:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 112.576 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-22 03:36:30

End at: 2017-09-22 03:37:00

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 111.277 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.78 Mbit/s

95th percentile per-packet one-way delay: 111.308 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 109.528 ms

Loss rate: 0.00%

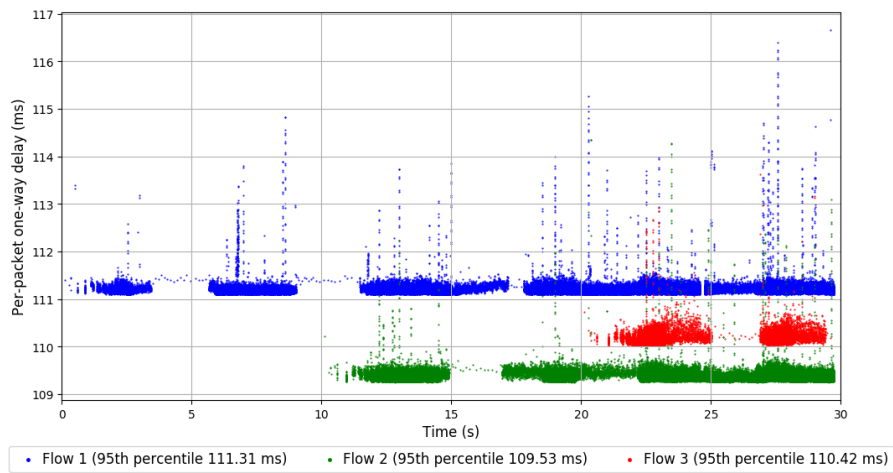
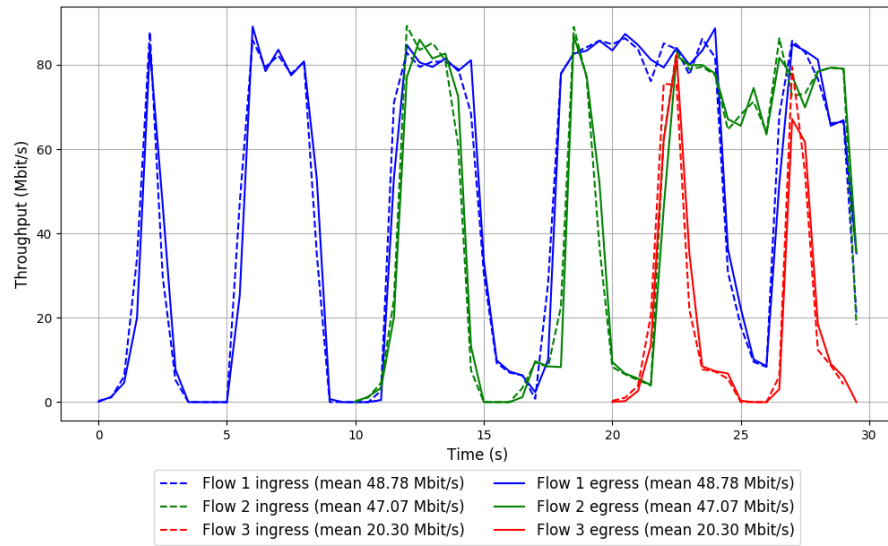
-- Flow 3:

Average throughput: 20.30 Mbit/s

95th percentile per-packet one-way delay: 110.417 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-22 03:49:49

End at: 2017-09-22 03:50:19

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.00 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 110.832 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 112.417 ms

Loss rate: 0.00%

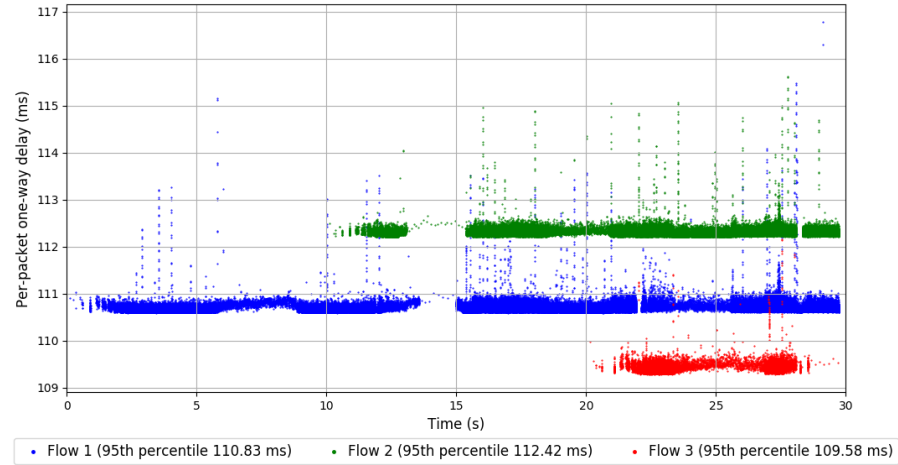
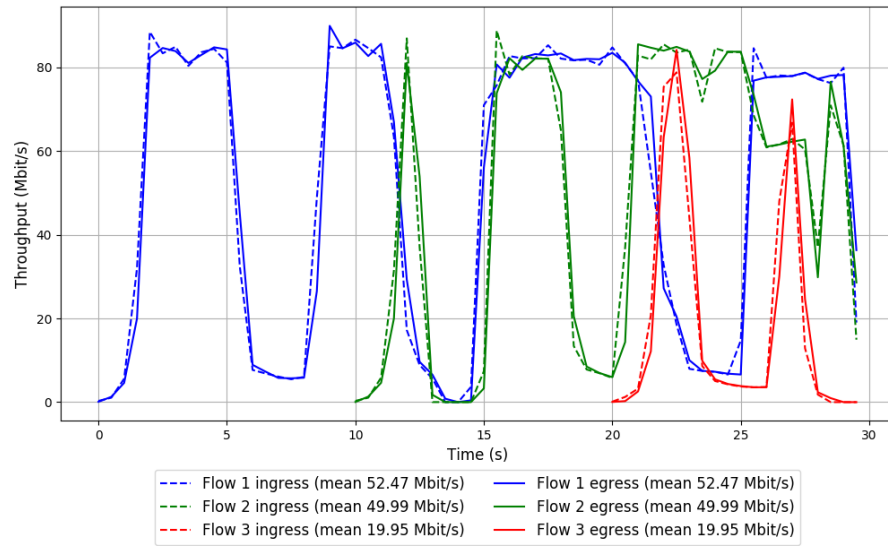
-- Flow 3:

Average throughput: 19.95 Mbit/s

95th percentile per-packet one-way delay: 109.582 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-22 04:03:13

End at: 2017-09-22 04:03:43

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 112.435 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 112.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 110.671 ms

Loss rate: 0.00%

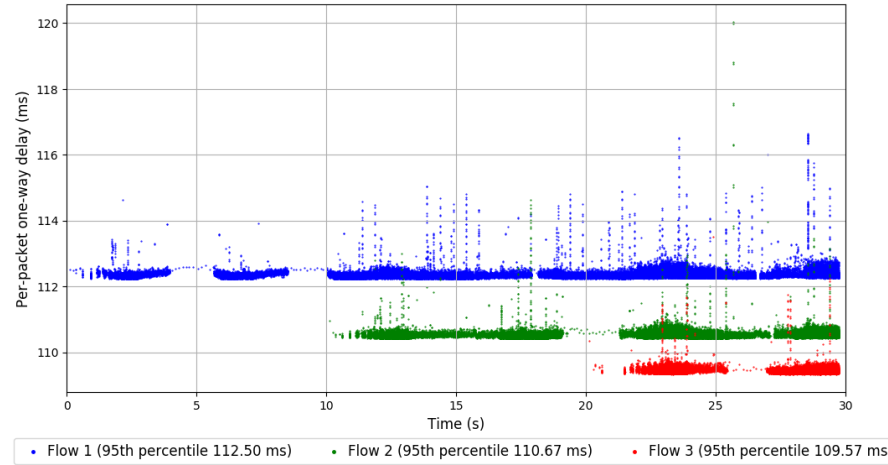
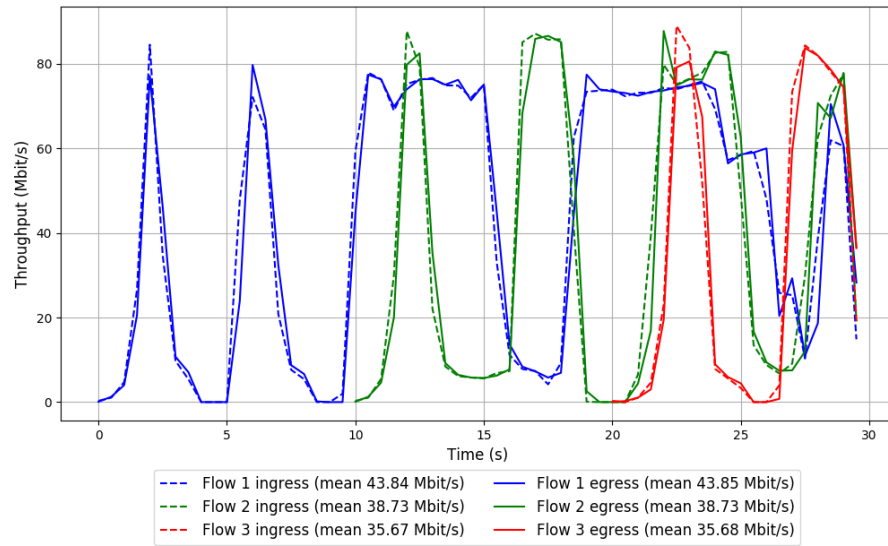
-- Flow 3:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 109.573 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-22 04:17:06

End at: 2017-09-22 04:17:36

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 111.669 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.95 Mbit/s

95th percentile per-packet one-way delay: 110.520 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.23 Mbit/s

95th percentile per-packet one-way delay: 111.718 ms

Loss rate: 0.01%

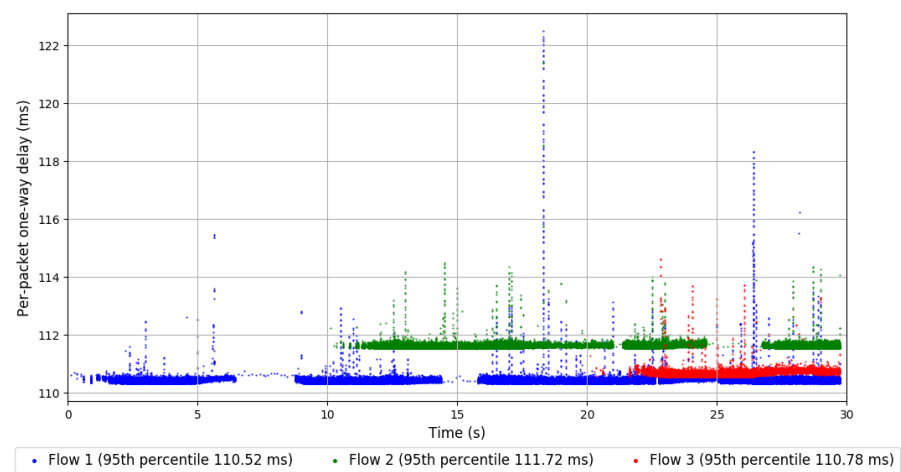
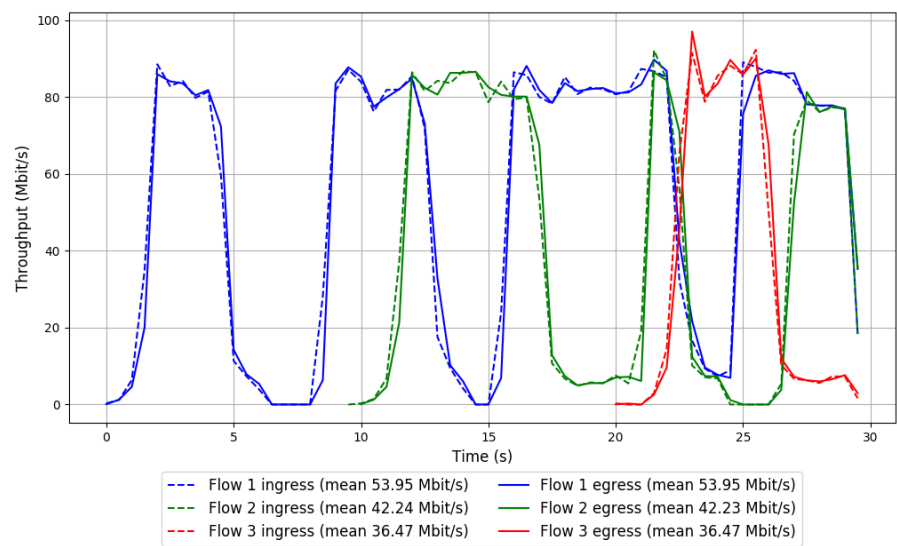
-- Flow 3:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 110.785 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-22 04:30:57

End at: 2017-09-22 04:31:27

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.95 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 111.740 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 110.728 ms

Loss rate: 0.00%

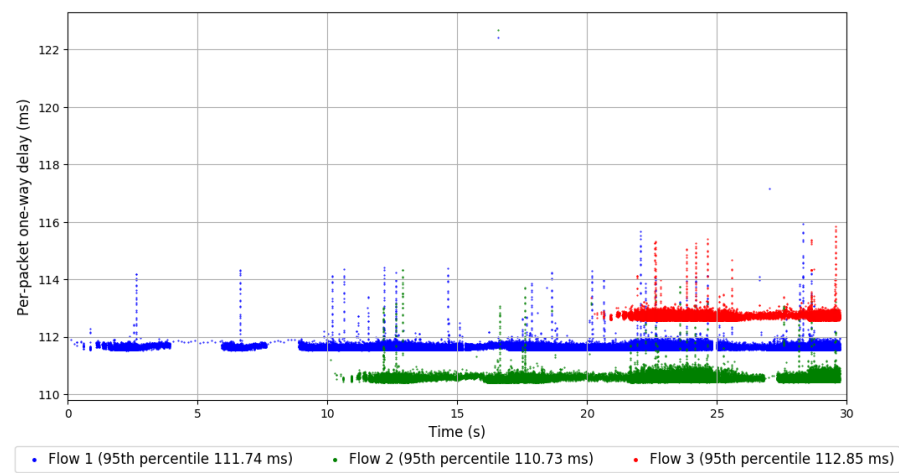
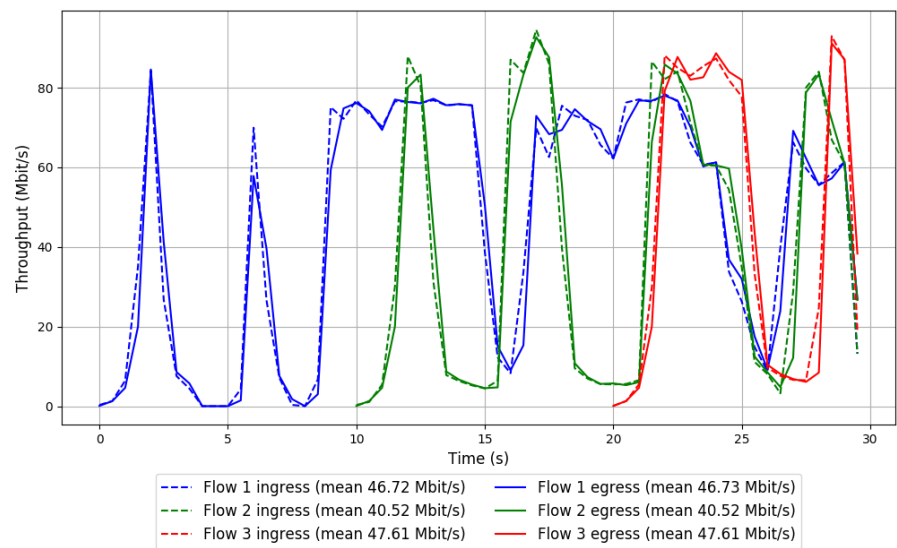
-- Flow 3:

Average throughput: 47.61 Mbit/s

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

Loss rate: 0.03%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-22 04:44:52

End at: 2017-09-22 04:45:22

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.95 Mbit/s

95th percentile per-packet one-way delay: 114.621 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 112.278 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.45 Mbit/s

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

Loss rate: 0.00%

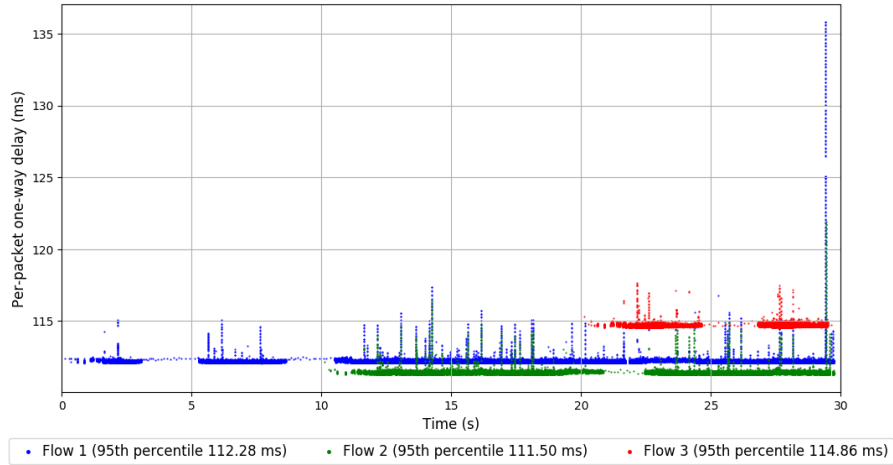
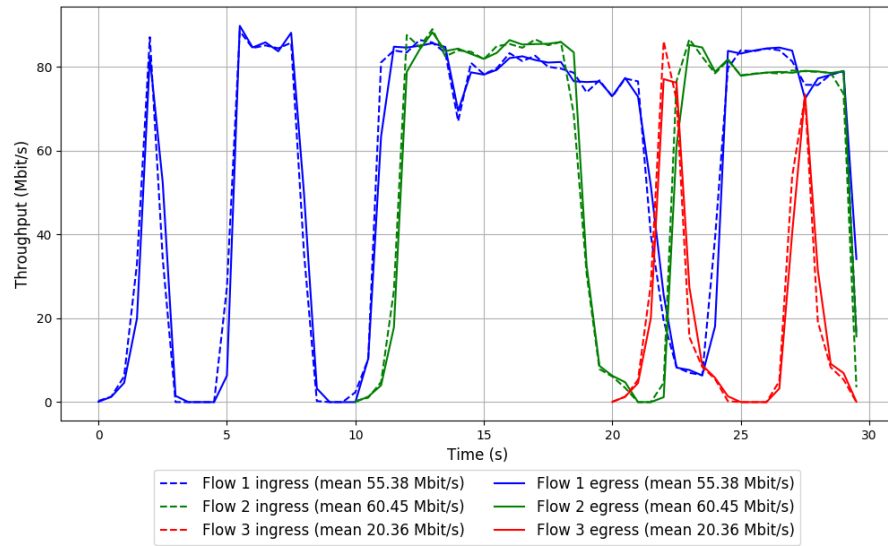
-- Flow 3:

Average throughput: 20.36 Mbit/s

95th percentile per-packet one-way delay: 114.857 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-22 04:58:04

End at: 2017-09-22 04:58:34

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.52 Mbit/s

95th percentile per-packet one-way delay: 110.383 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.42 Mbit/s

95th percentile per-packet one-way delay: 110.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.35 Mbit/s

95th percentile per-packet one-way delay: 109.636 ms

Loss rate: 0.00%

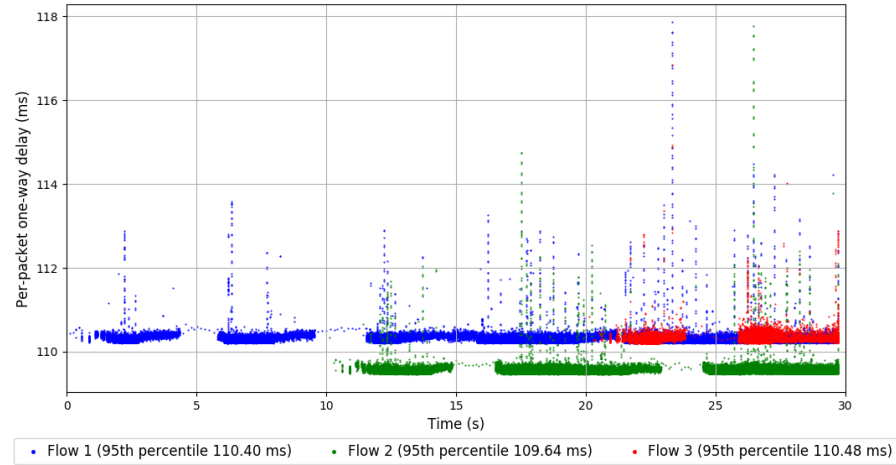
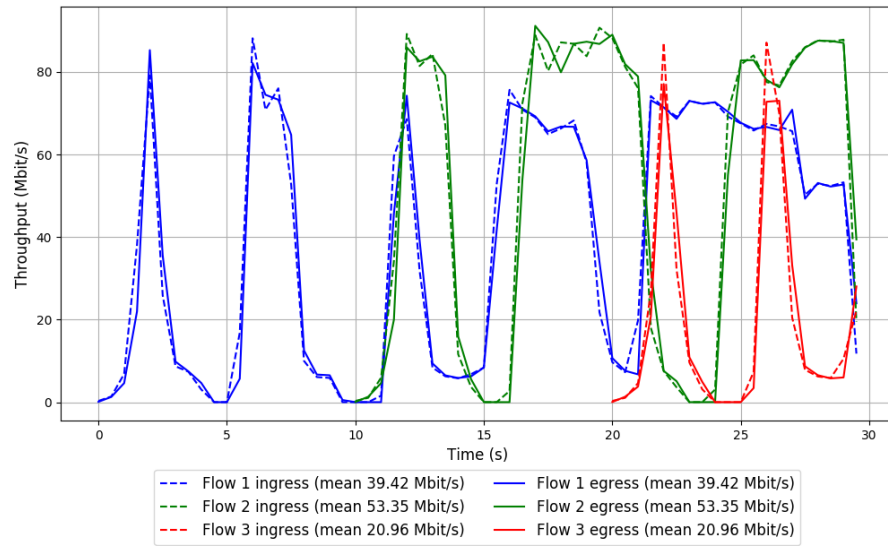
-- Flow 3:

Average throughput: 20.96 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-22 05:11:06

End at: 2017-09-22 05:11:36

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.78 Mbit/s

95th percentile per-packet one-way delay: 112.652 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.24 Mbit/s

95th percentile per-packet one-way delay: 110.370 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 111.496 ms

Loss rate: 0.00%

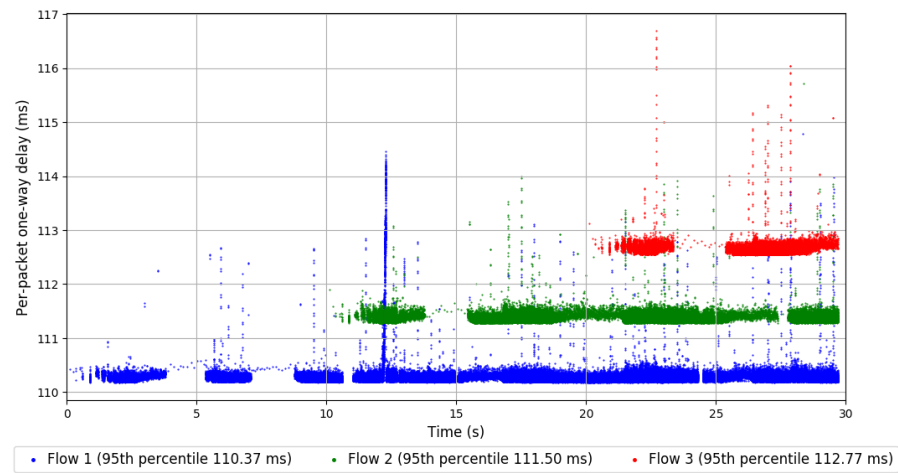
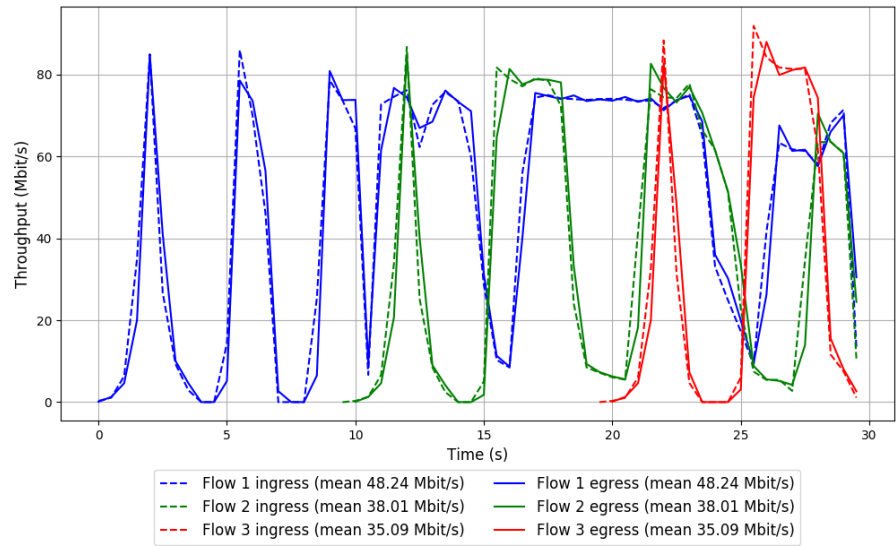
-- Flow 3:

Average throughput: 35.09 Mbit/s

95th percentile per-packet one-way delay: 112.770 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

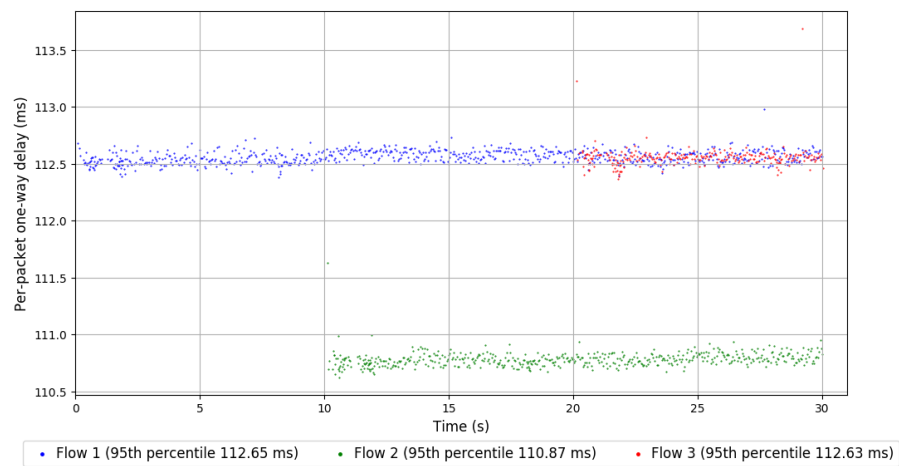
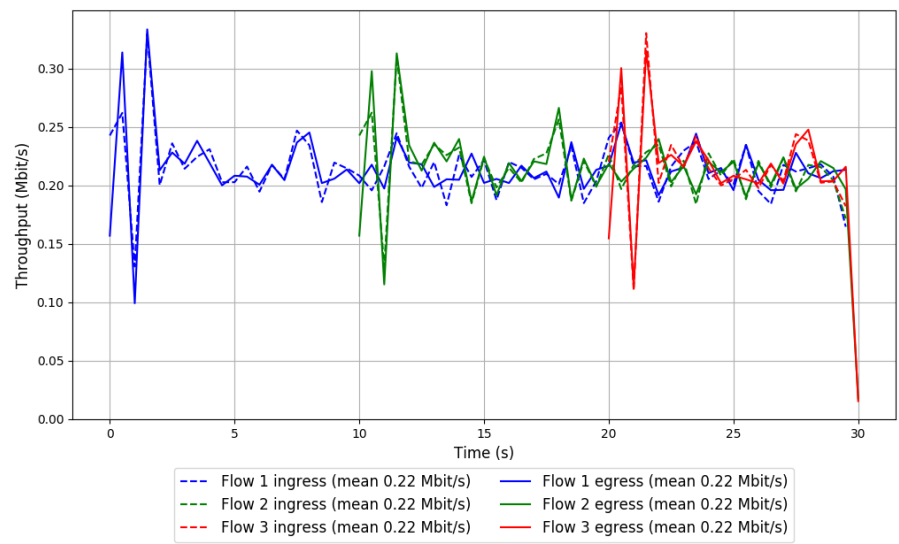


```
Run 1: Statistics of SCReAM

Start at: 2017-09-22 03:14:28
End at: 2017-09-22 03:14:58

# Below is generated by plot.py at 2017-09-22 06:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.650 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.873 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.633 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link

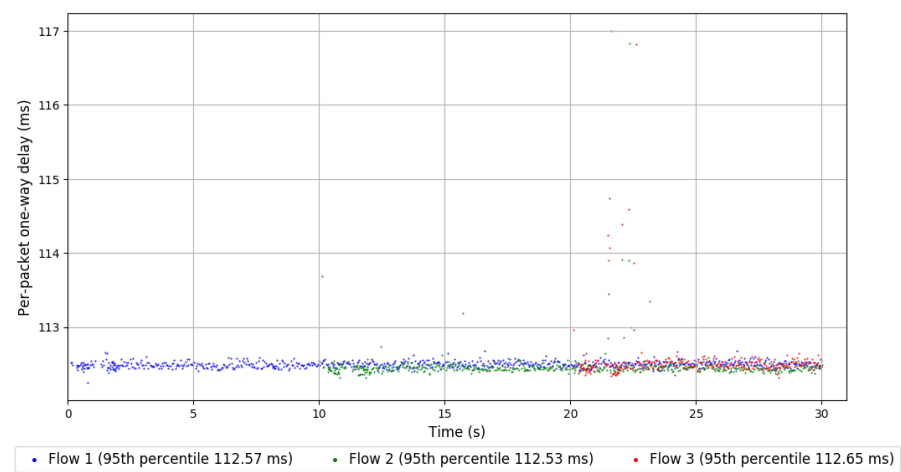
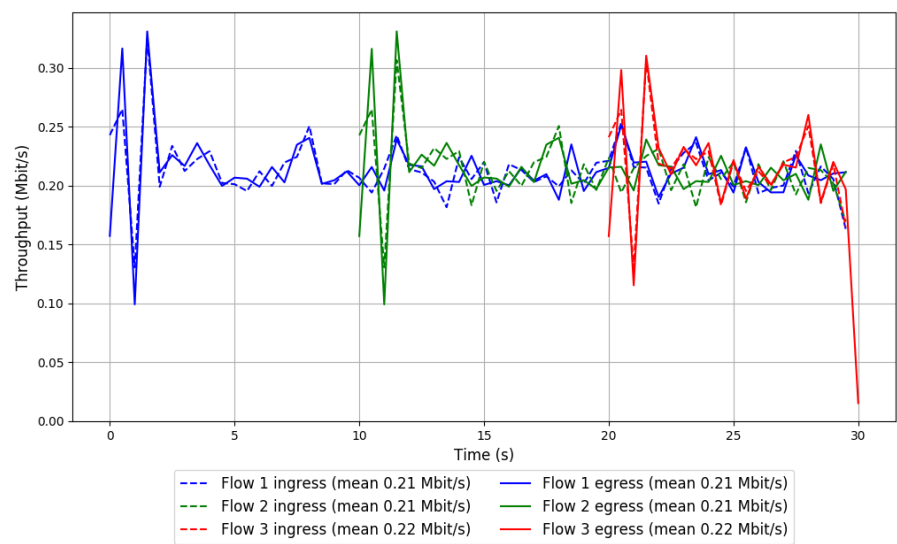


```
Run 2: Statistics of SCReAM

Start at: 2017-09-22 03:27:48
End at: 2017-09-22 03:28:18

# Below is generated by plot.py at 2017-09-22 06:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.648 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-09-22 03:41:36

End at: 2017-09-22 03:42:06

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.800 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.329 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.873 ms

Loss rate: 0.00%

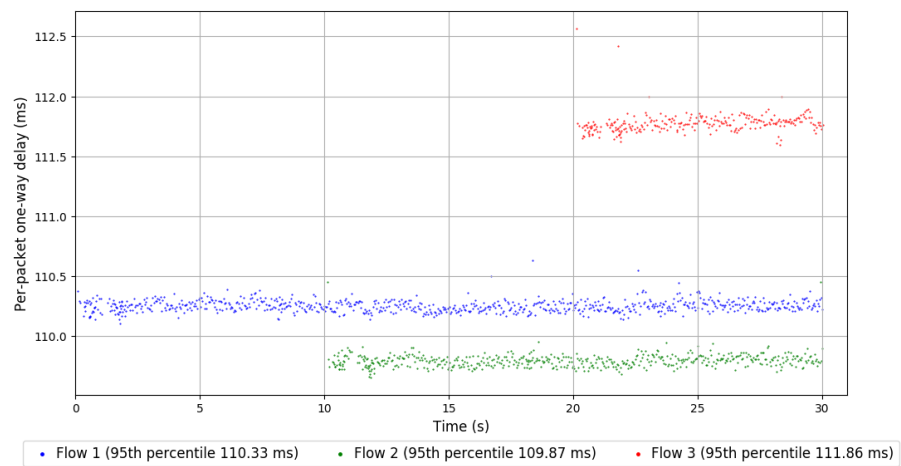
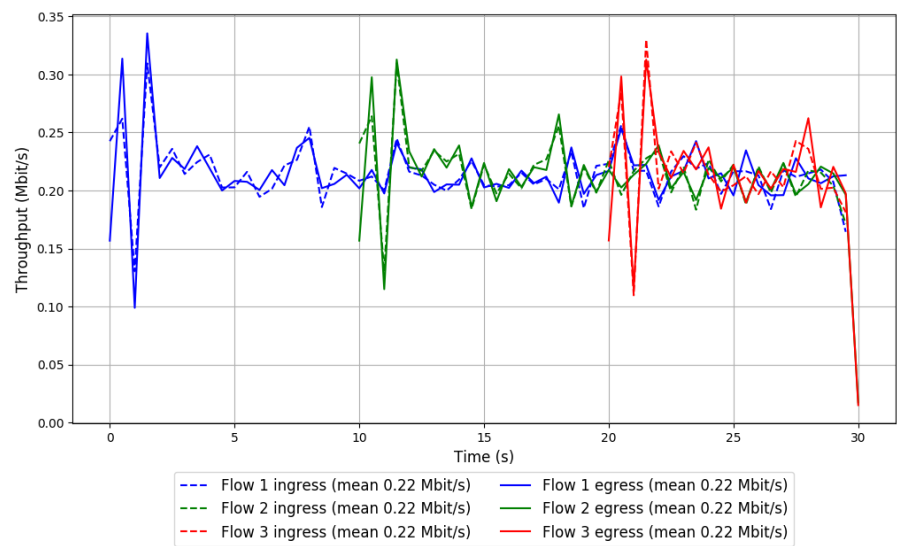
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.865 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-22 03:54:57

End at: 2017-09-22 03:55:27

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.725 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.927 ms

Loss rate: 0.00%

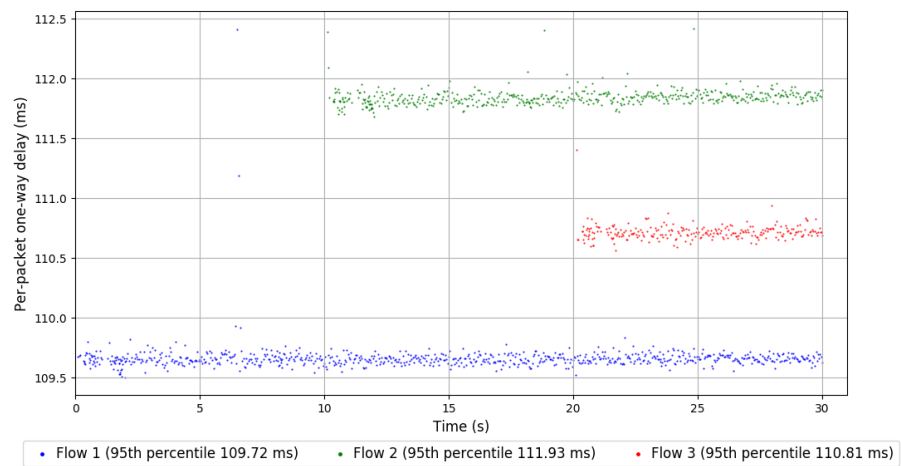
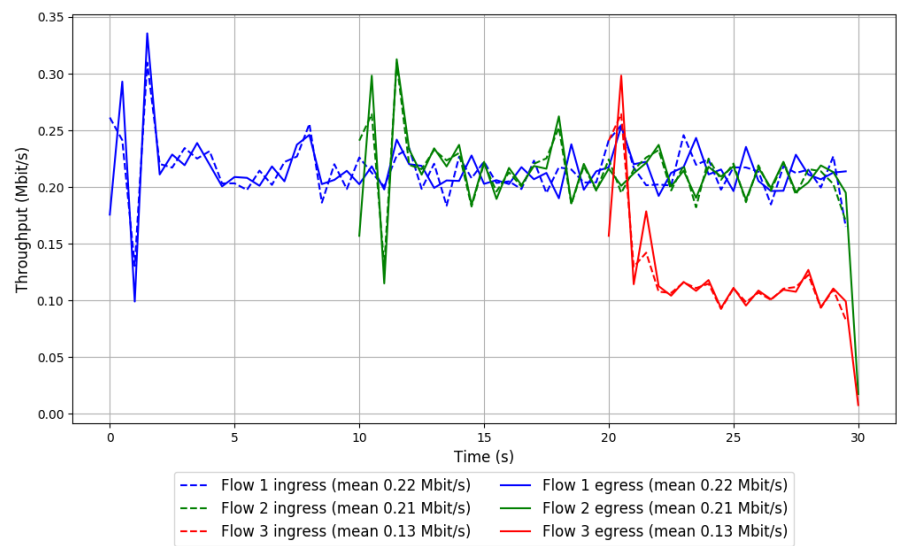
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 110.806 ms

Loss rate: 0.00%

Run 4: Report of SCSReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-22 04:08:20

End at: 2017-09-22 04:08:50

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 0.00%

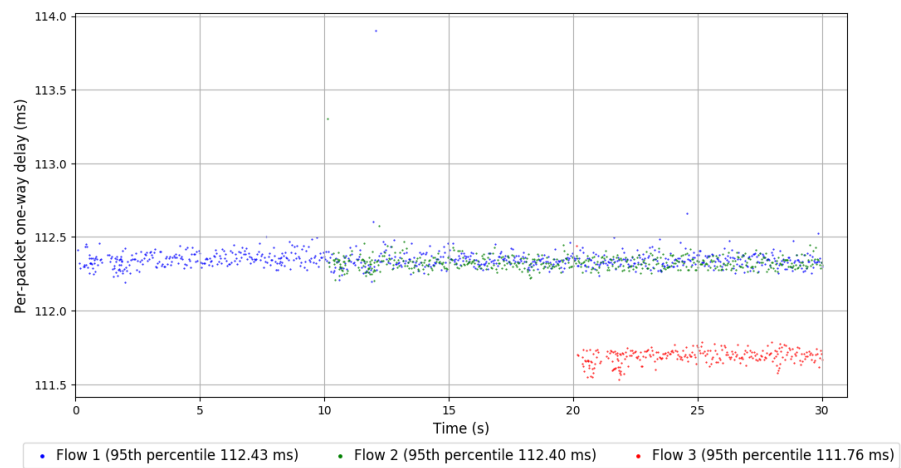
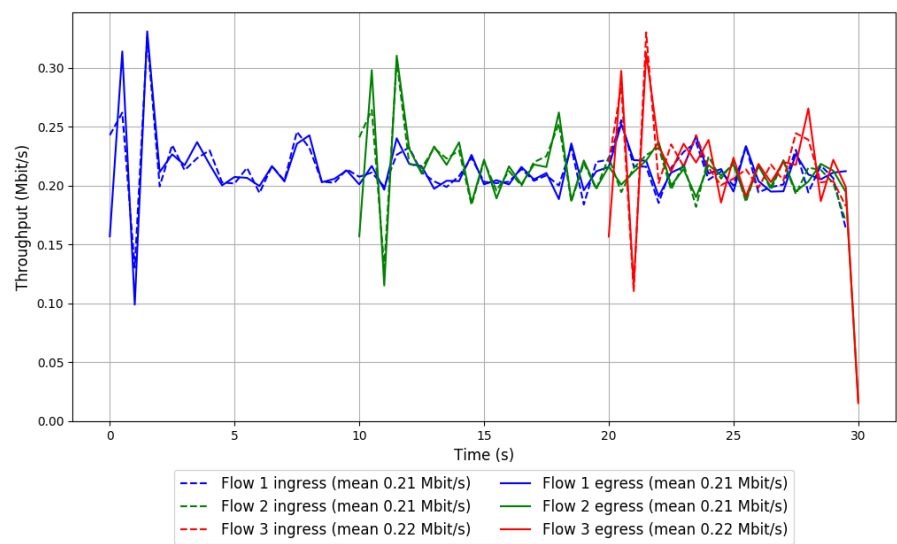
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.762 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-22 04:22:15

End at: 2017-09-22 04:22:45

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 113.063 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.846 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

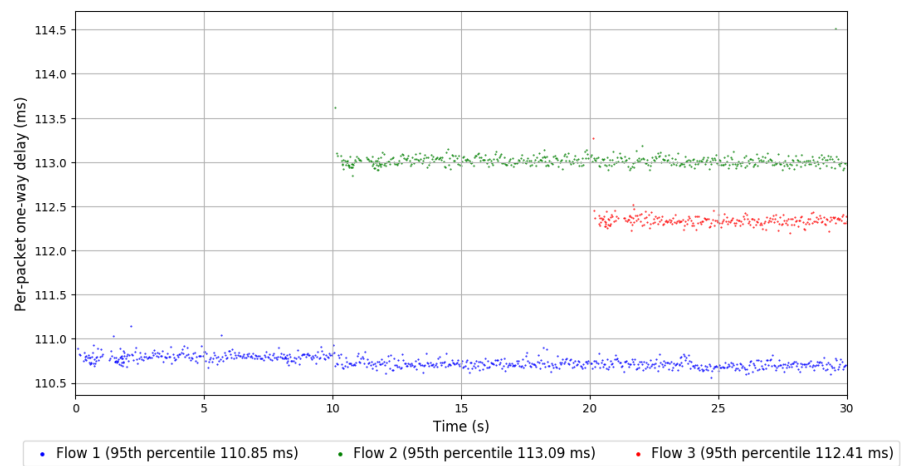
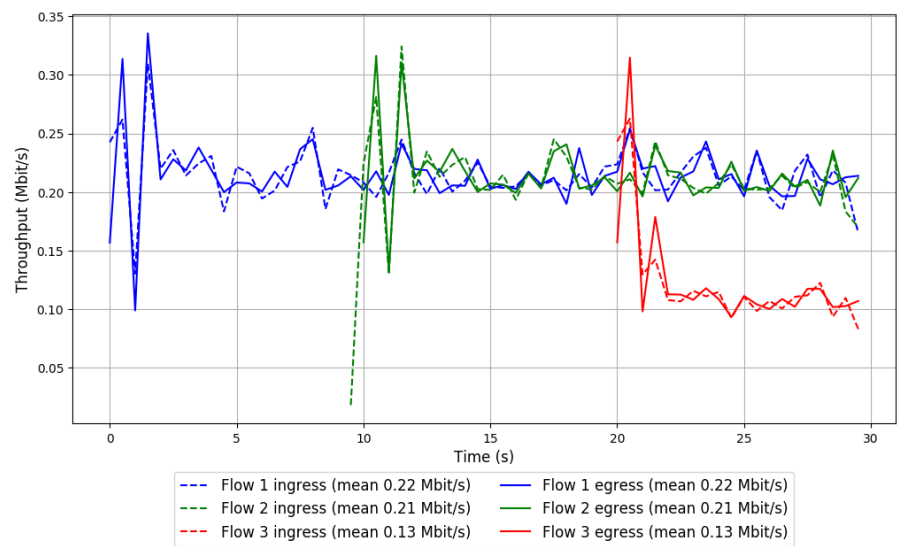
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 112.414 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-22 04:36:02

End at: 2017-09-22 04:36:32

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.974 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.712 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.018 ms

Loss rate: 0.00%

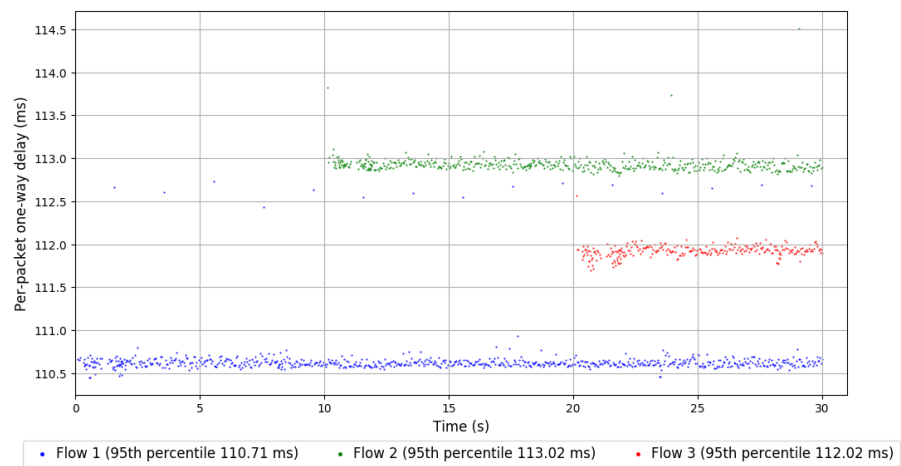
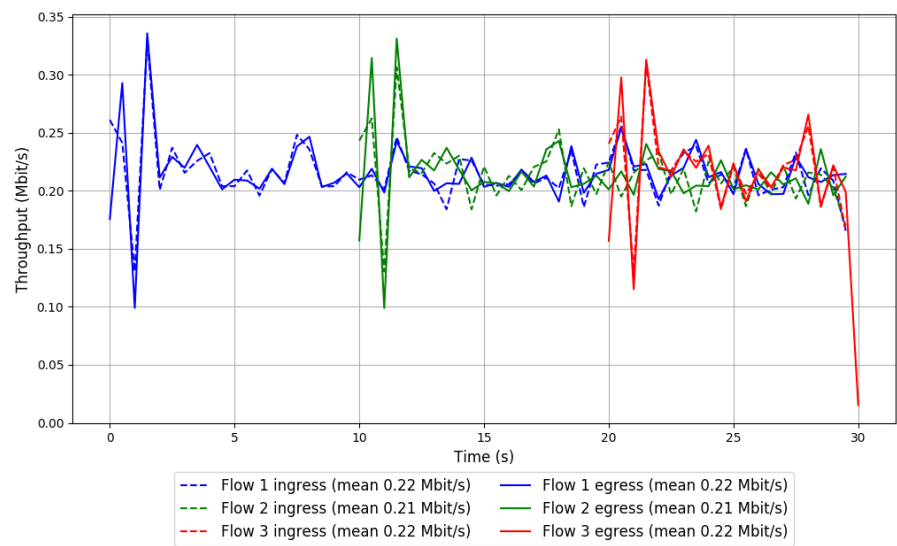
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.020 ms

Loss rate: 0.00%

Run 7: Report of SCRaM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-22 04:50:03

End at: 2017-09-22 04:50:33

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.081 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.898 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

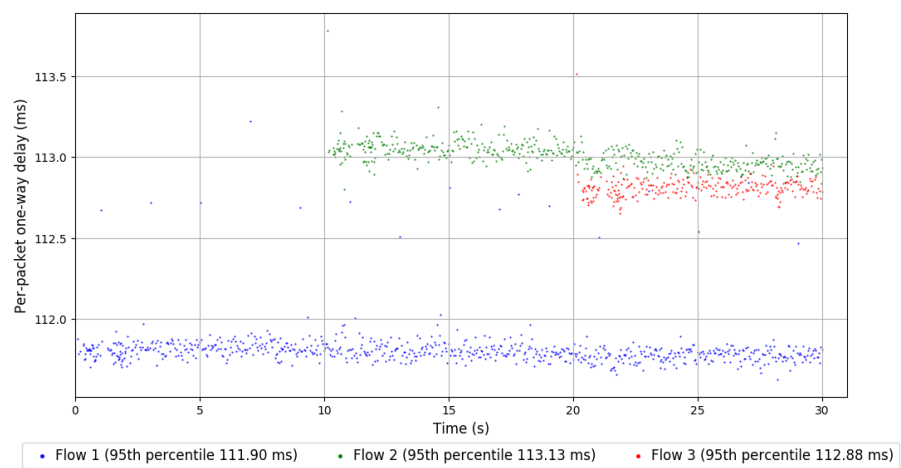
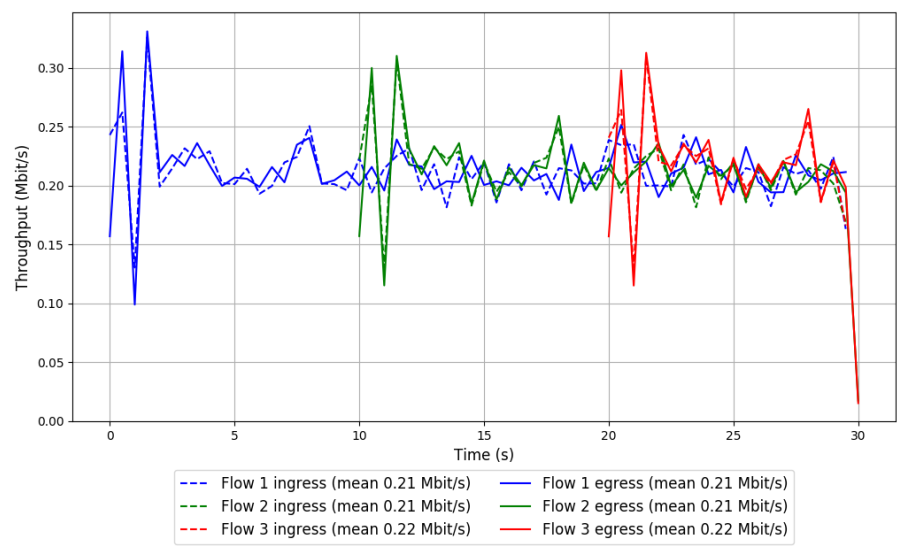
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.882 ms

Loss rate: 0.00%

Run 8: Report of SCSReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-22 05:03:09

End at: 2017-09-22 05:03:39

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 112.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.000 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.486 ms

Loss rate: 0.00%

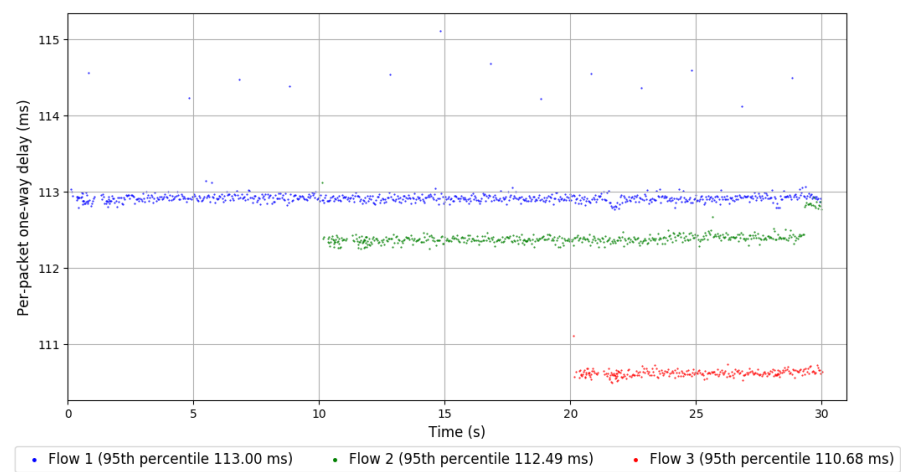
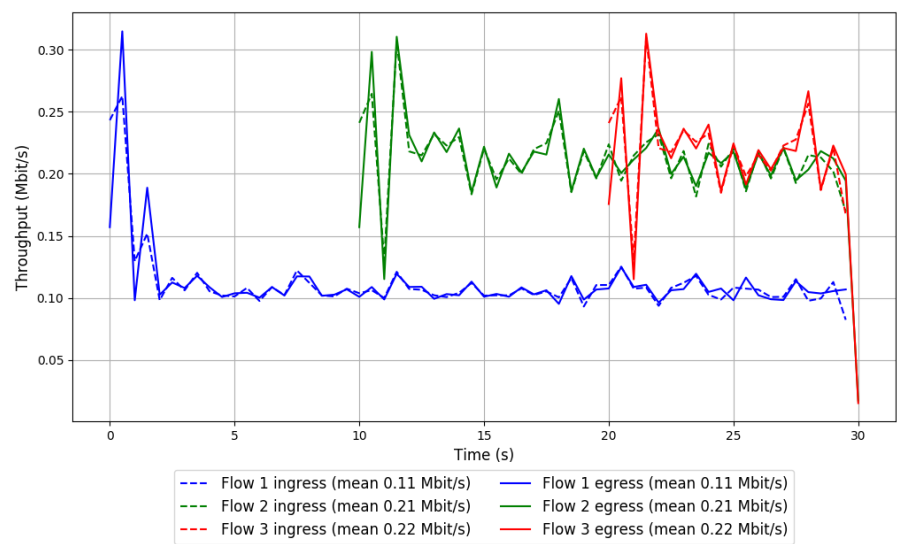
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.682 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

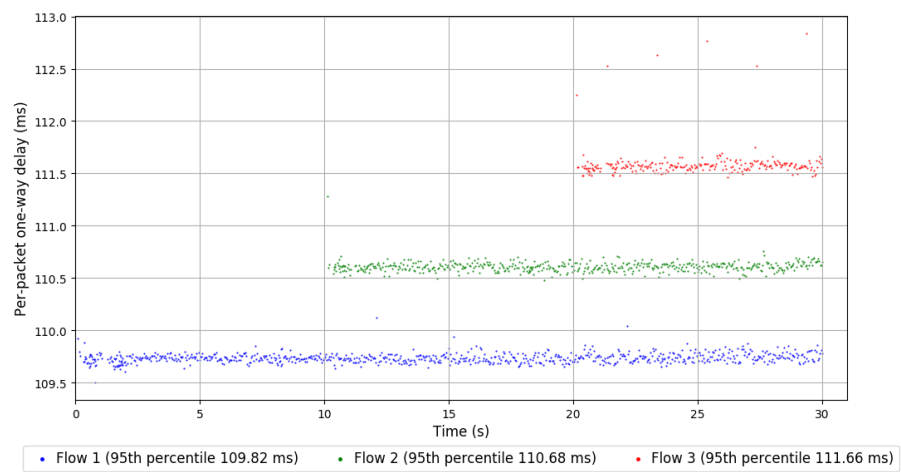
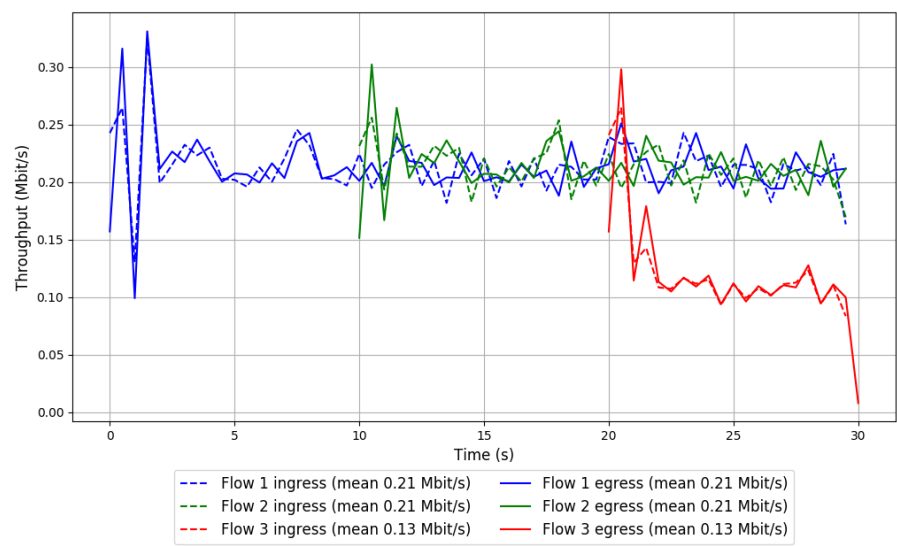


```
Run 10: Statistics of SReAM

Start at: 2017-09-22 05:16:13
End at: 2017-09-22 05:16:43

# Below is generated by plot.py at 2017-09-22 06:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 111.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 109.816 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 110.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 111.661 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-09-22 03:13:42

End at: 2017-09-22 03:14:12

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.20 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 111.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 112.571 ms

Loss rate: 0.00%

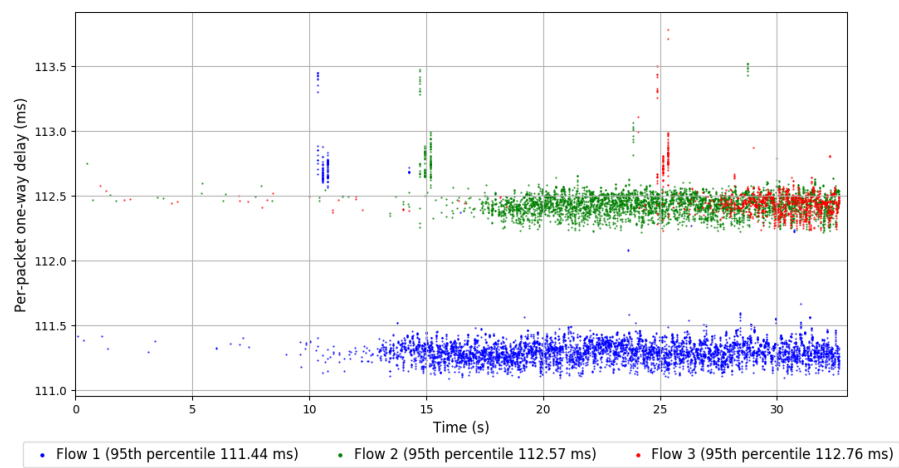
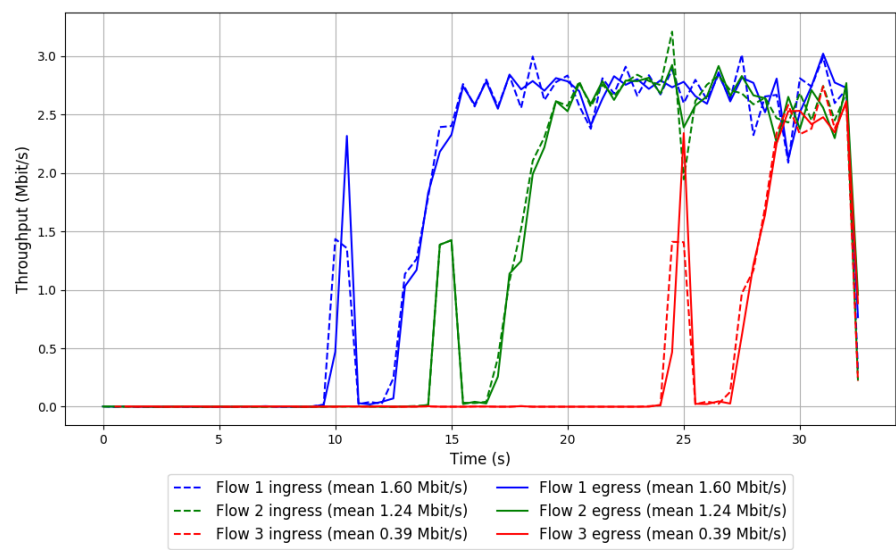
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 112.759 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-22 03:27:02

End at: 2017-09-22 03:27:32

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 112.488 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.60 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 110.353 ms

Loss rate: 0.00%

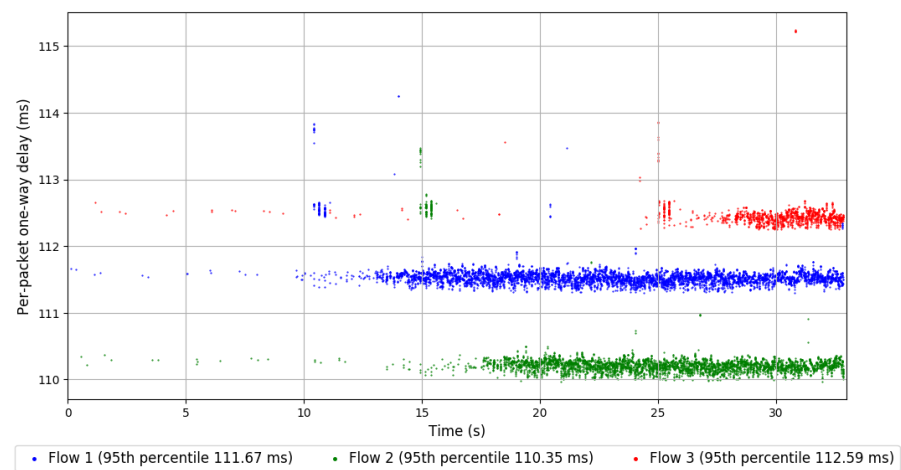
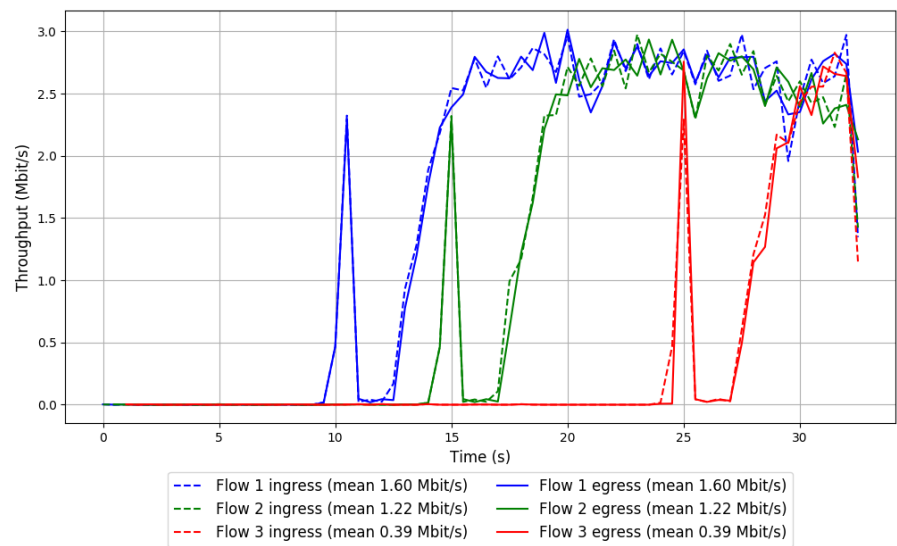
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-22 03:40:50

End at: 2017-09-22 03:41:20

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 110.356 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 112.777 ms

Loss rate: 0.00%

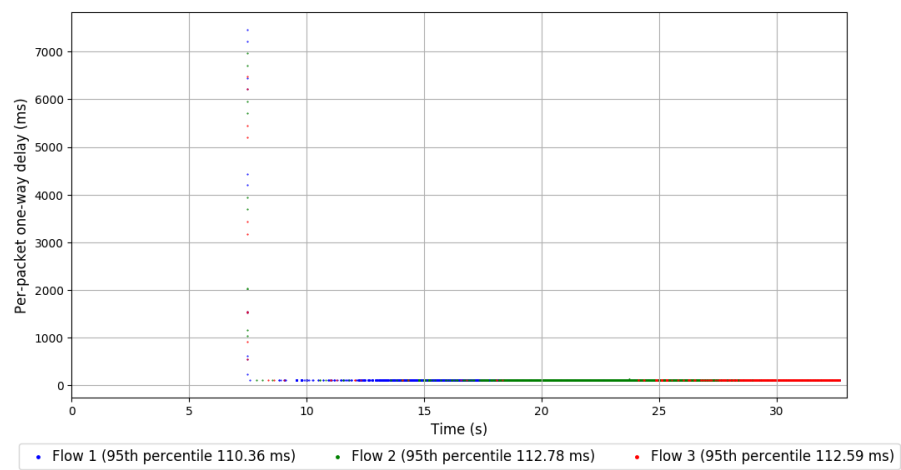
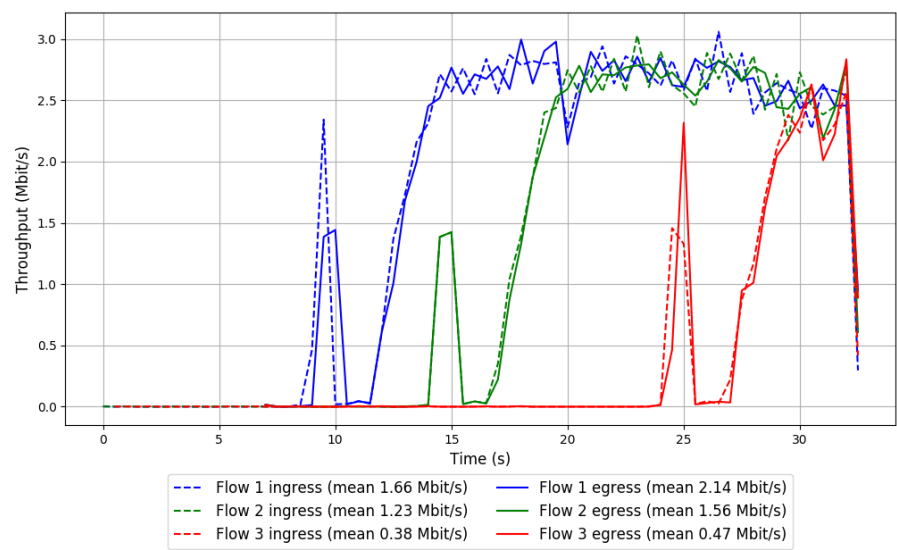
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.595 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-22 03:54:11

End at: 2017-09-22 03:54:41

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 110.736 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 110.763 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 109.741 ms

Loss rate: 0.00%

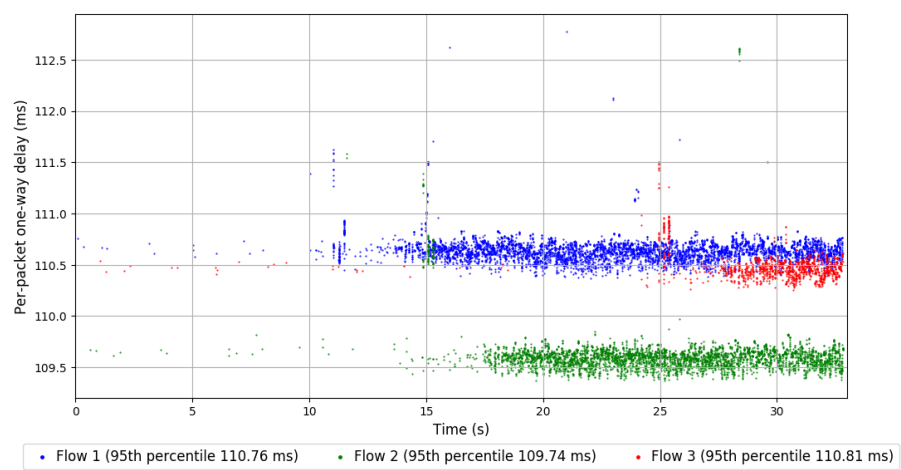
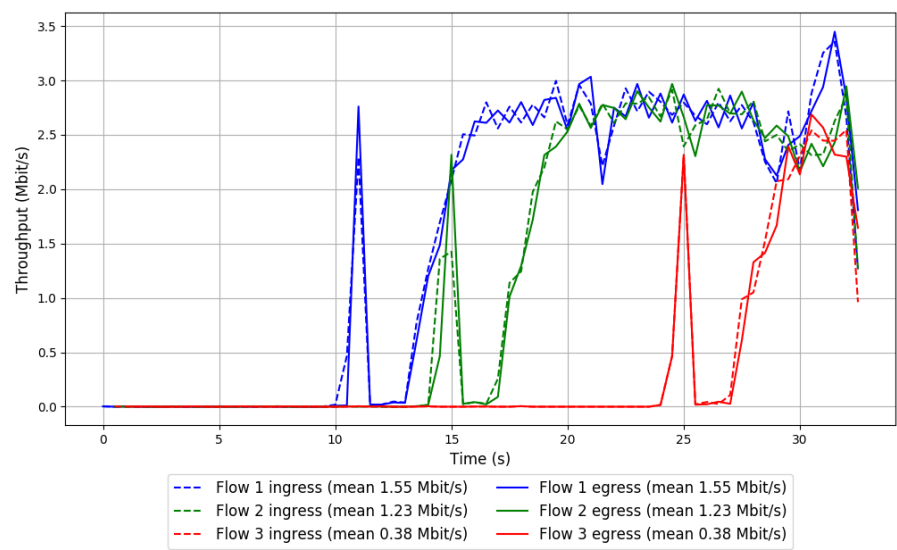
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 110.806 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-22 04:07:34

End at: 2017-09-22 04:08:04

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 111.676 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 111.702 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 108.977 ms

Loss rate: 0.00%

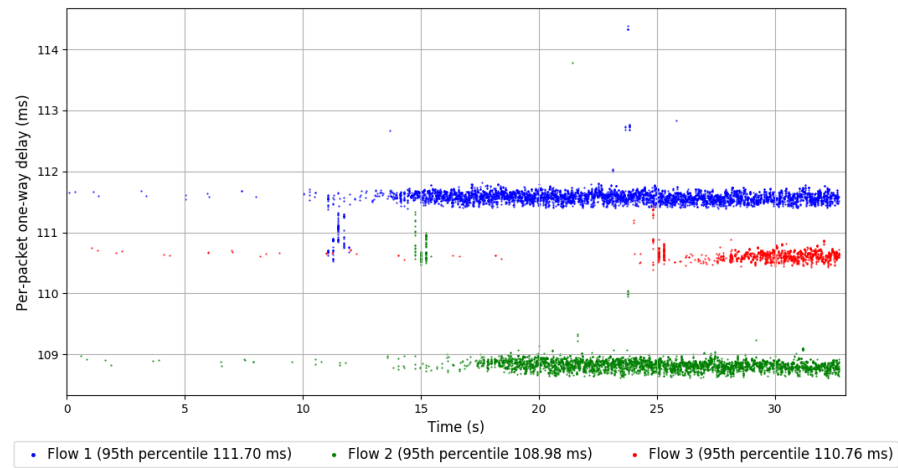
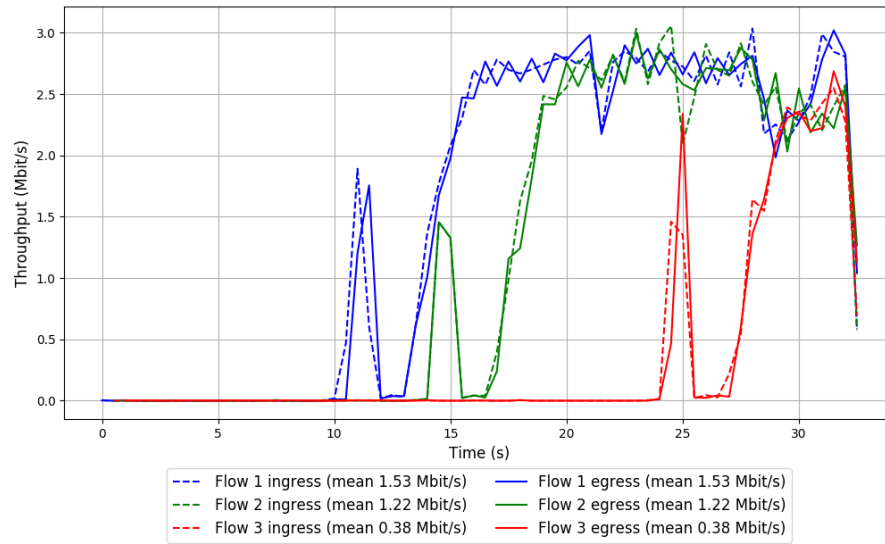
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 110.759 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-22 04:21:29

End at: 2017-09-22 04:21:59

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 112.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 111.914 ms

Loss rate: 0.00%

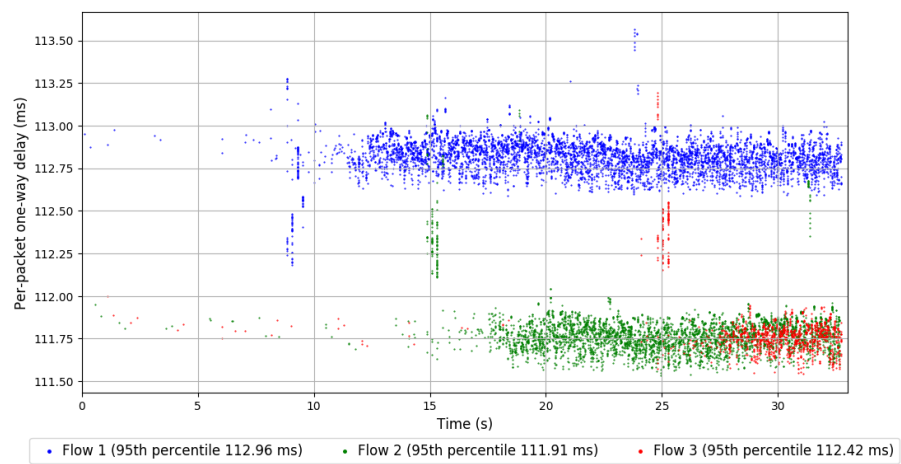
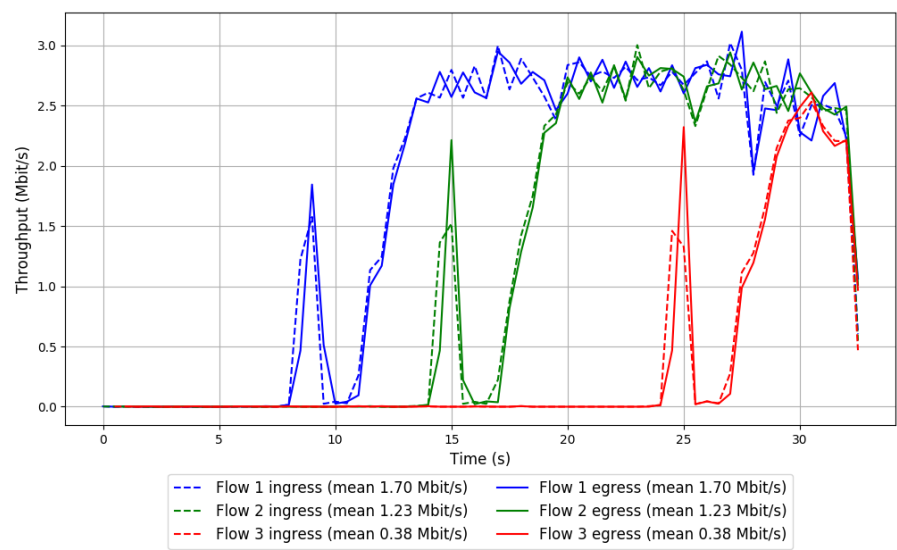
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 112.419 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-22 04:35:15

End at: 2017-09-22 04:35:45

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 112.921 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.65 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.60 Mbit/s

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

Loss rate: 0.00%

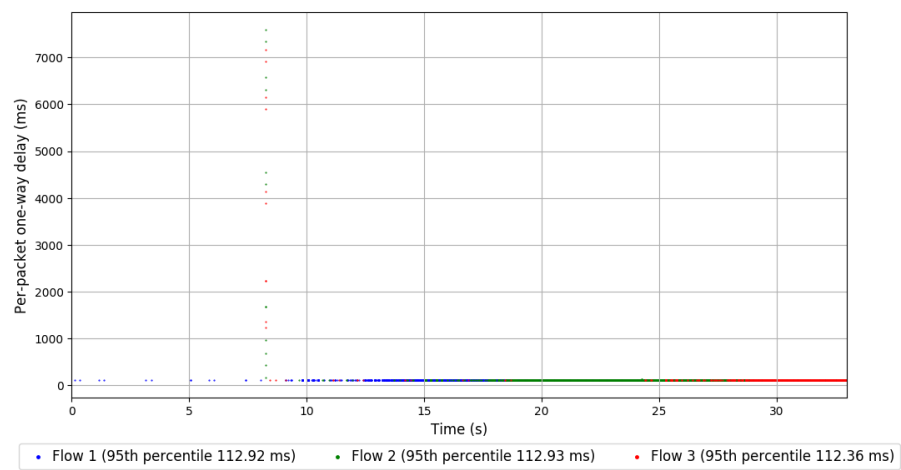
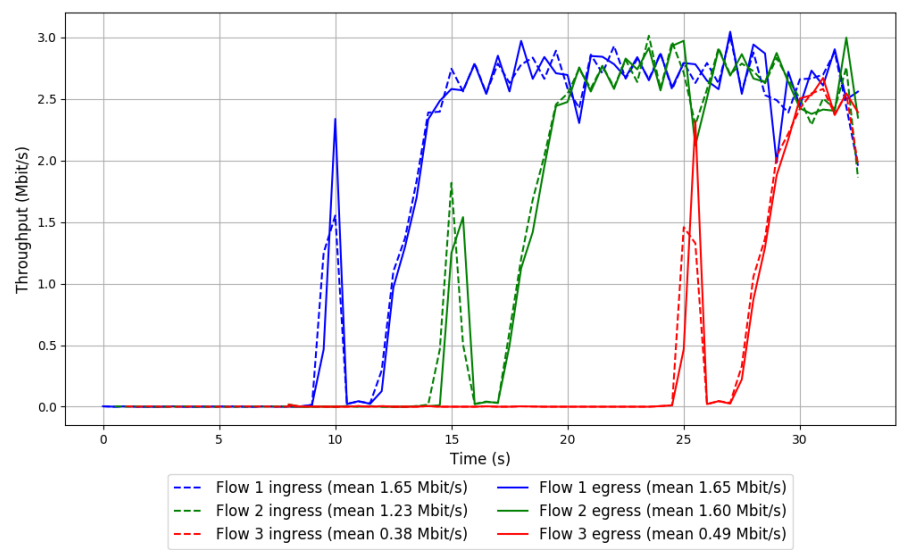
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 112.358 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-22 04:49:16

End at: 2017-09-22 04:49:46

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.23 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 112.965 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 111.837 ms

Loss rate: 0.00%

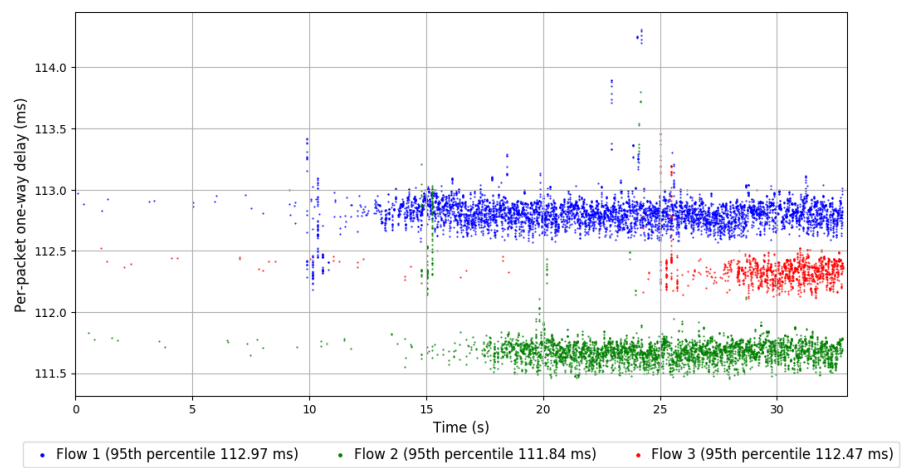
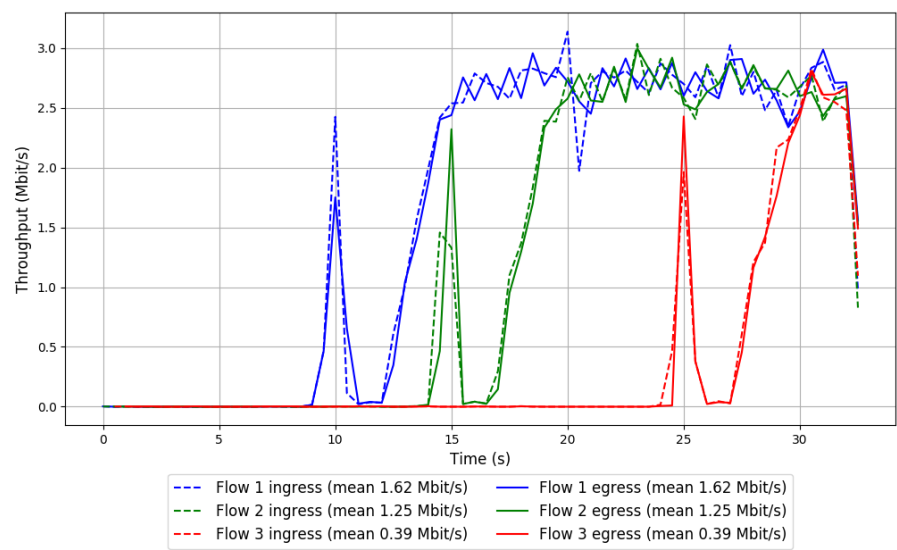
-- Flow 3:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

End at: 2017-09-22 05:02:52

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 110.631 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 110.625 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 110.629 ms

Loss rate: 0.00%

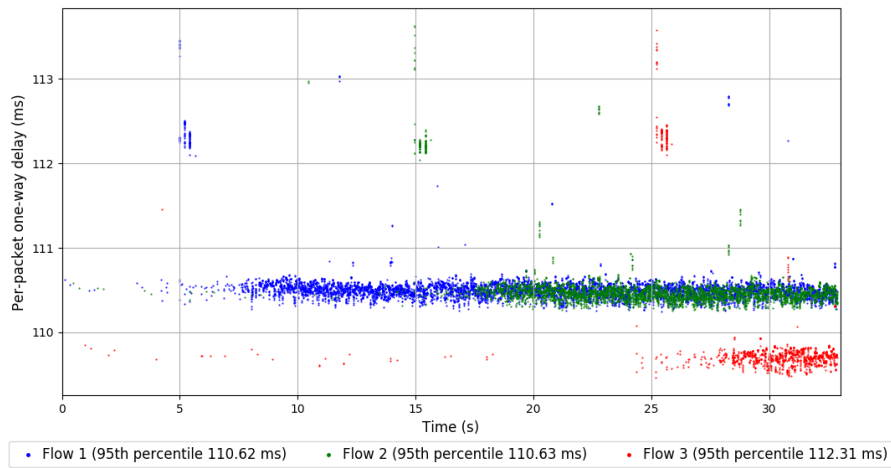
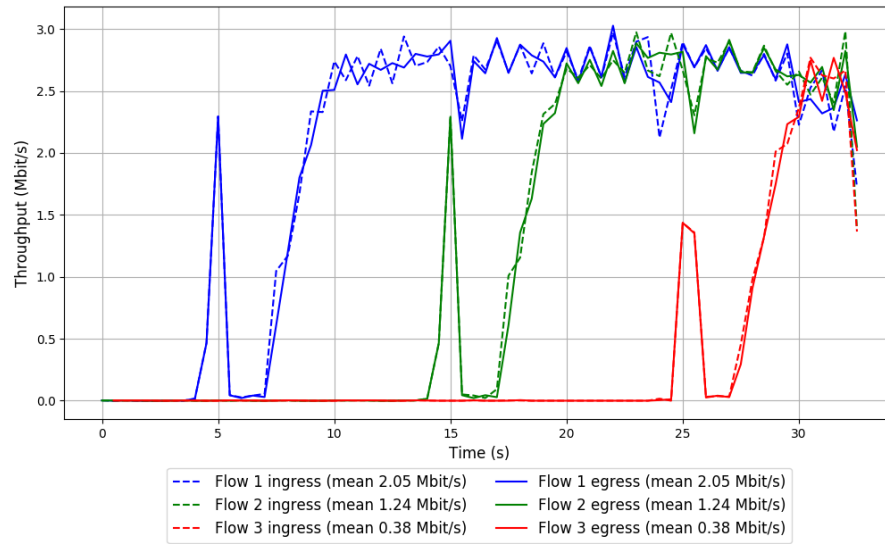
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 112.305 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-22 05:15:26

End at: 2017-09-22 05:15:56

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.99 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.38 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 109.586 ms

Loss rate: 0.00%

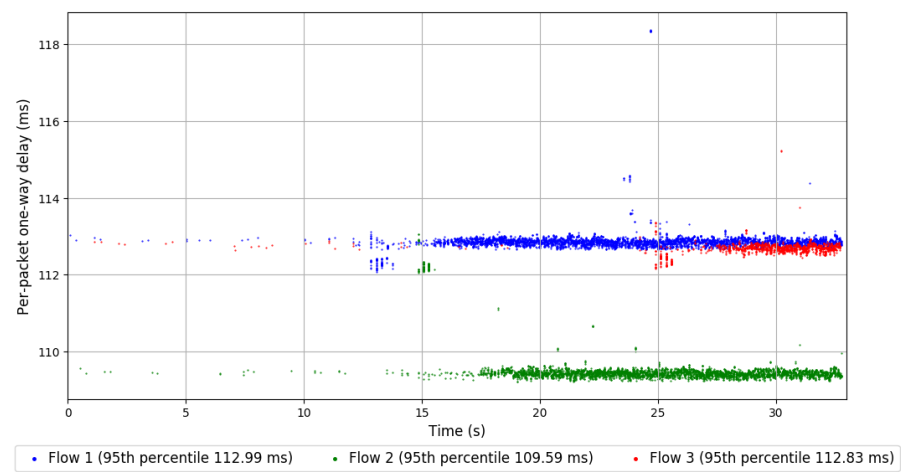
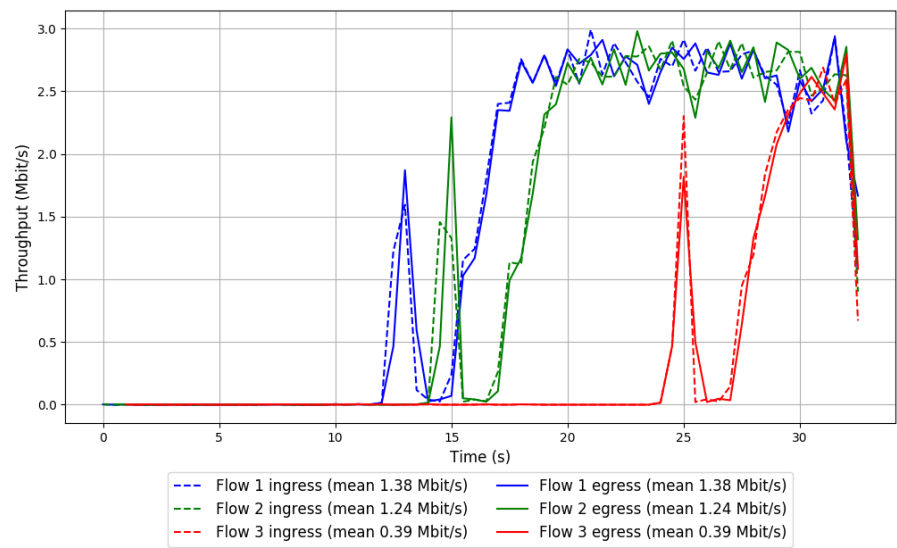
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 112.827 ms

Loss rate: 0.08%

Run 10: Report of WebRTC media — Data Link

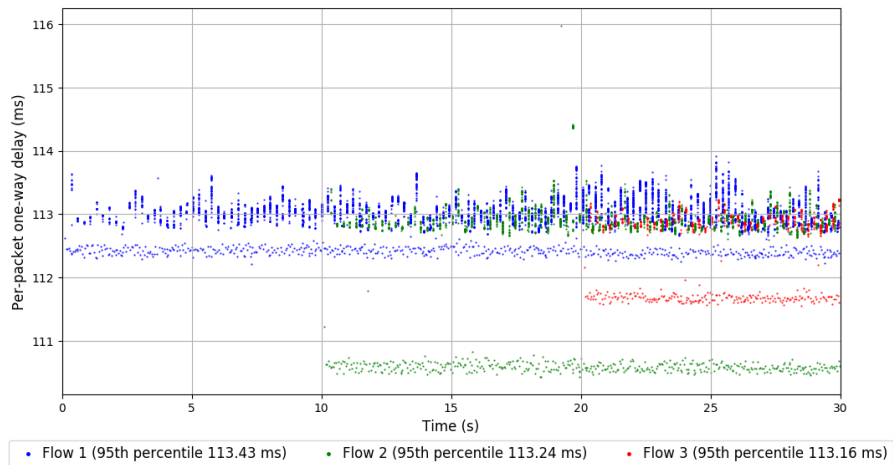
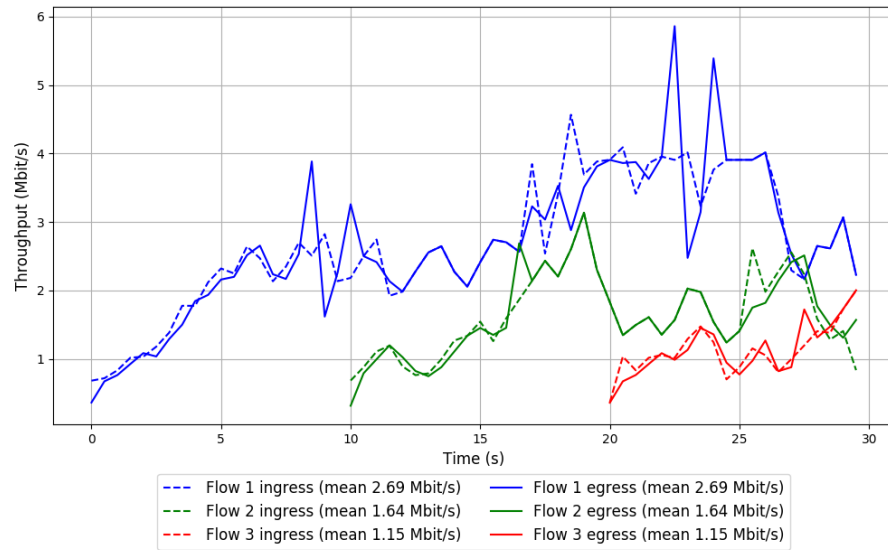


```
Run 1: Statistics of Sprout

Start at: 2017-09-22 03:12:00
End at: 2017-09-22 03:12:30

# Below is generated by plot.py at 2017-09-22 06:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 113.386 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.69 Mbit/s
95th percentile per-packet one-way delay: 113.428 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 113.242 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 113.156 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-22 03:25:20

End at: 2017-09-22 03:25:50

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.63 Mbit/s

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

Loss rate: 0.17%

-- Flow 1:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.35%

-- Flow 2:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 113.227 ms

Loss rate: 0.00%

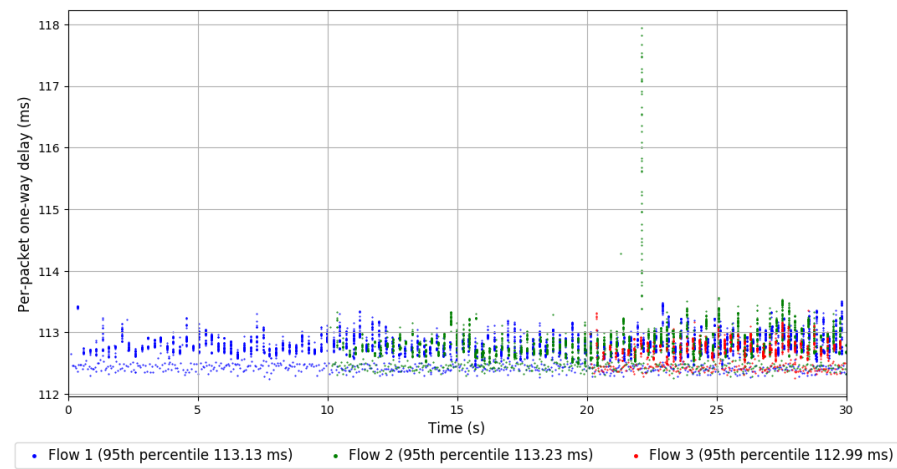
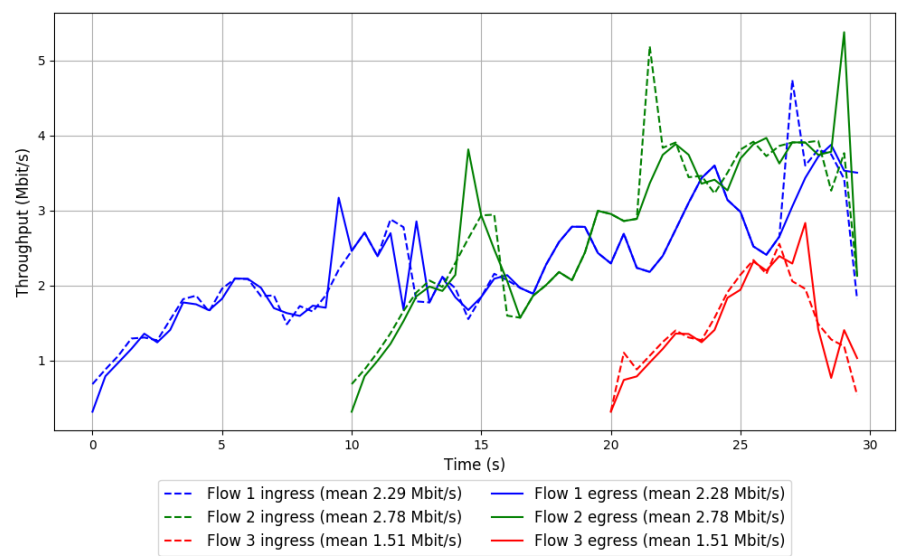
-- Flow 3:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 112.990 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-22 03:39:07

End at: 2017-09-22 03:39:37

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.63 Mbit/s

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

Loss rate: 0.51%

-- Flow 1:

Average throughput: 2.60 Mbit/s

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

Loss rate: 0.43%

-- Flow 2:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 113.332 ms

Loss rate: 0.15%

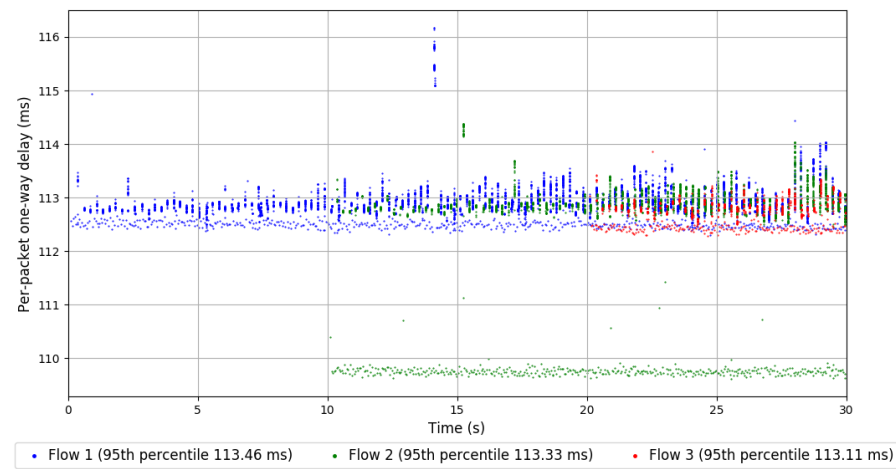
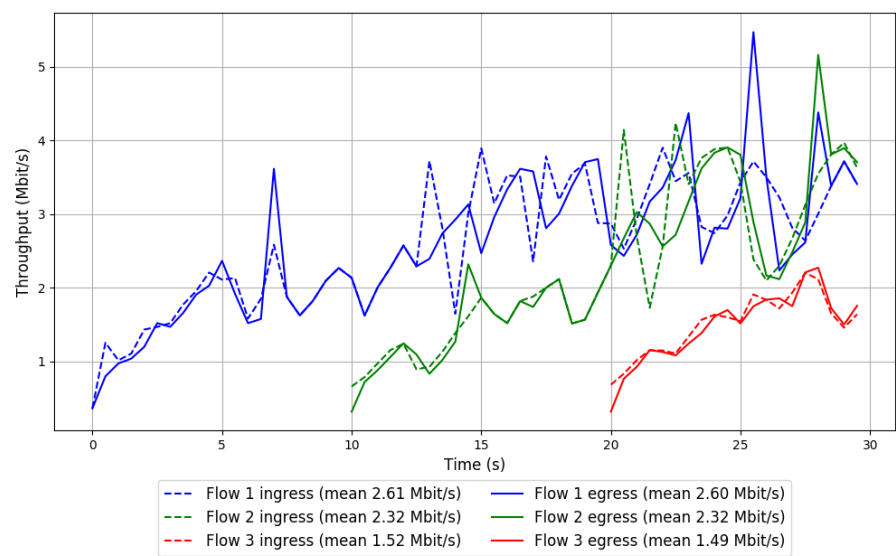
-- Flow 3:

Average throughput: 1.49 Mbit/s

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

Loss rate: 2.05%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-22 03:52:29

End at: 2017-09-22 03:52:59

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 112.126 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 112.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 112.099 ms

Loss rate: 0.00%

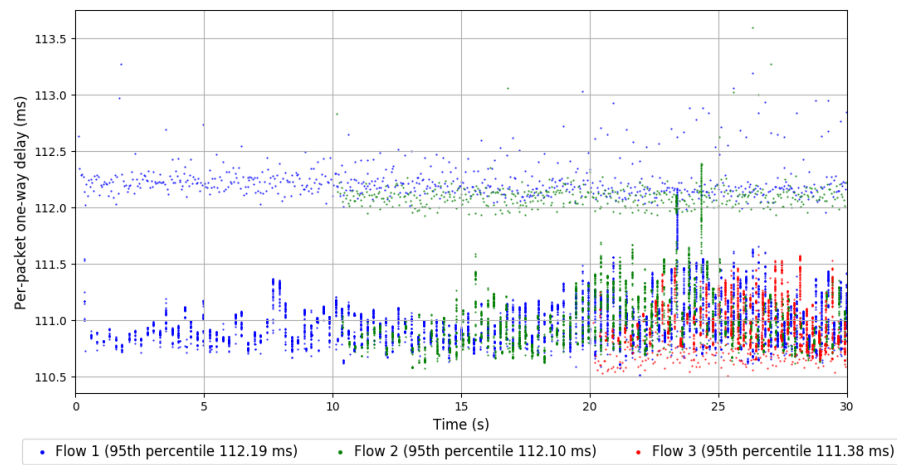
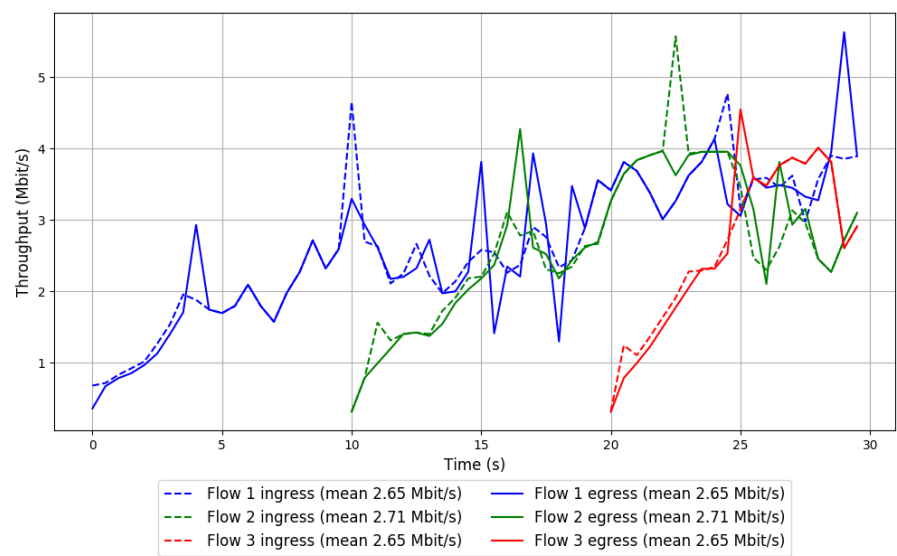
-- Flow 3:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 111.382 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-22 04:05:53

End at: 2017-09-22 04:06:23

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 111.818 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 111.738 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 112.149 ms

Loss rate: 0.11%

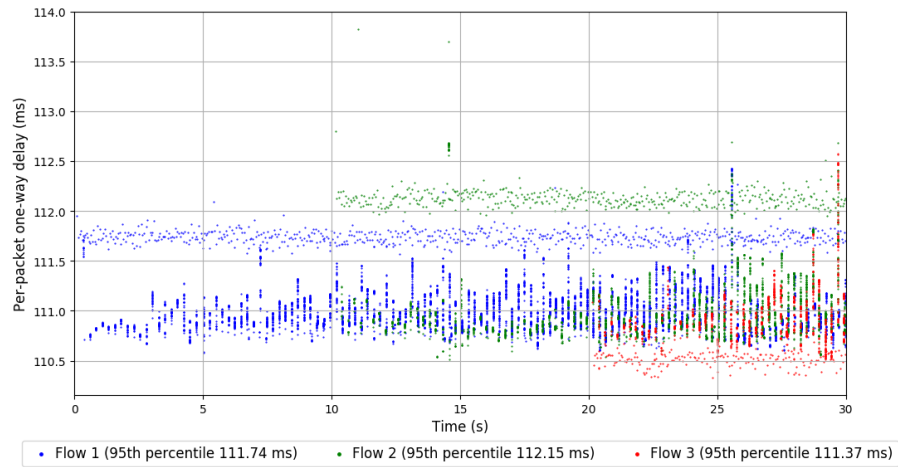
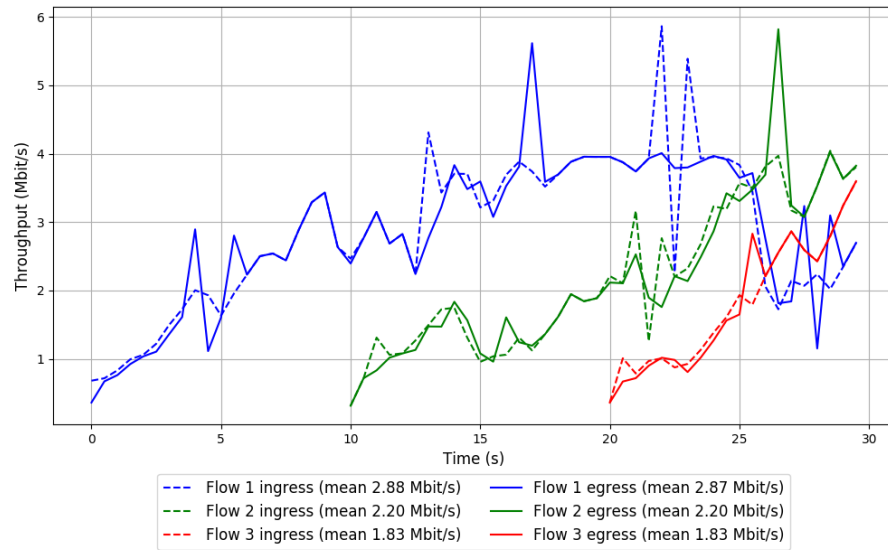
-- Flow 3:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 111.366 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-22 04:19:46

End at: 2017-09-22 04:20:16

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

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

Loss rate: 0.42%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 112.957 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 113.012 ms

Loss rate: 0.39%

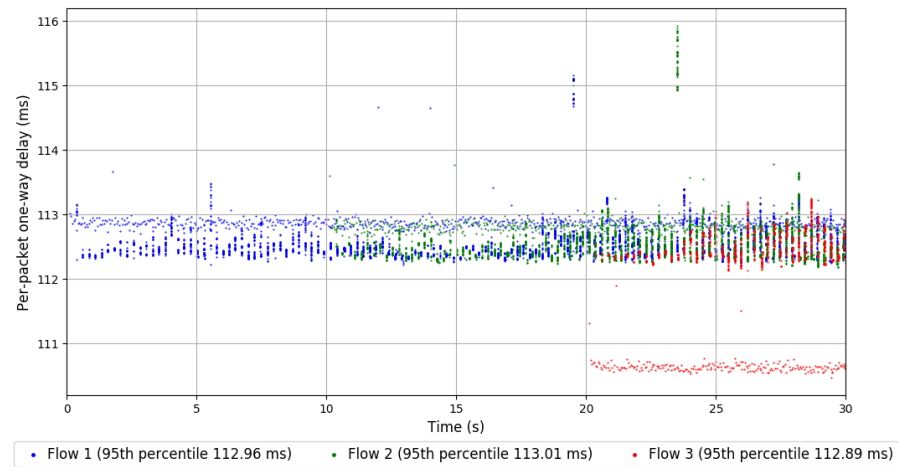
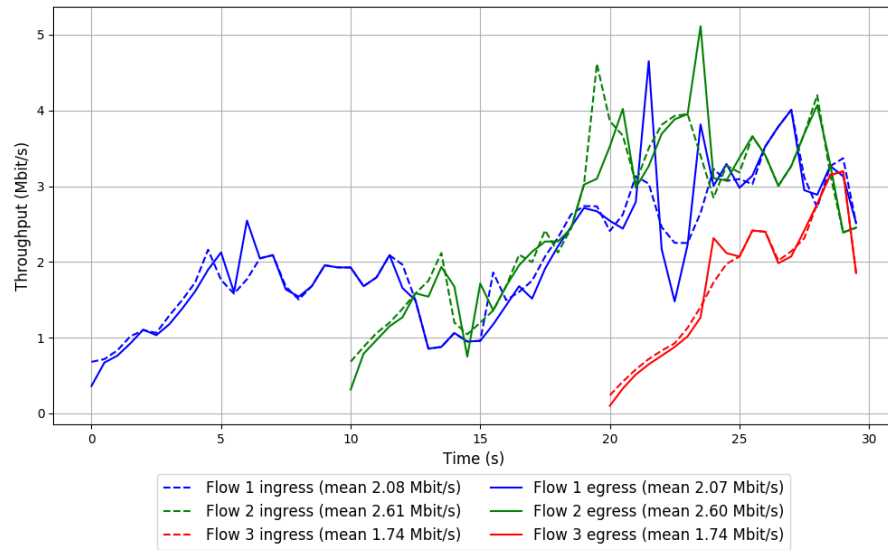
-- Flow 3:

Average throughput: 1.74 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-22 04:33:33

End at: 2017-09-22 04:34:03

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.41 Mbit/s

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

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.94 Mbit/s

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

Loss rate: 0.18%

-- Flow 2:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 113.121 ms

Loss rate: 0.05%

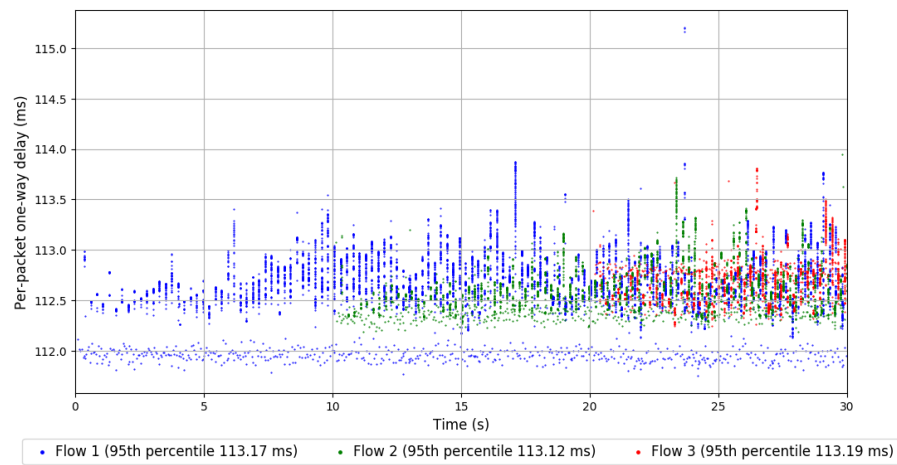
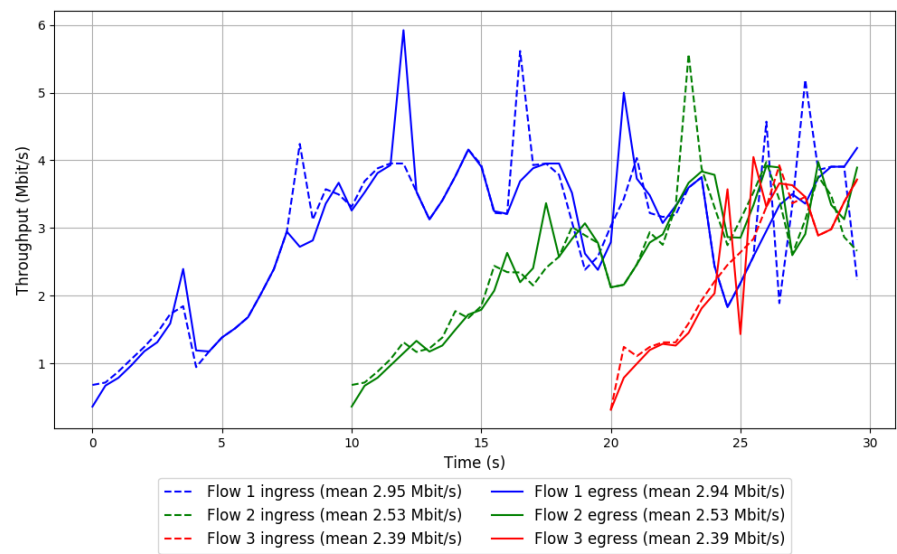
-- Flow 3:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 113.191 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-22 04:47:34

End at: 2017-09-22 04:48:04

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 113.038 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 2.79 Mbit/s

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

Loss rate: 0.50%

-- Flow 2:

Average throughput: 2.83 Mbit/s

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

Loss rate: 0.25%

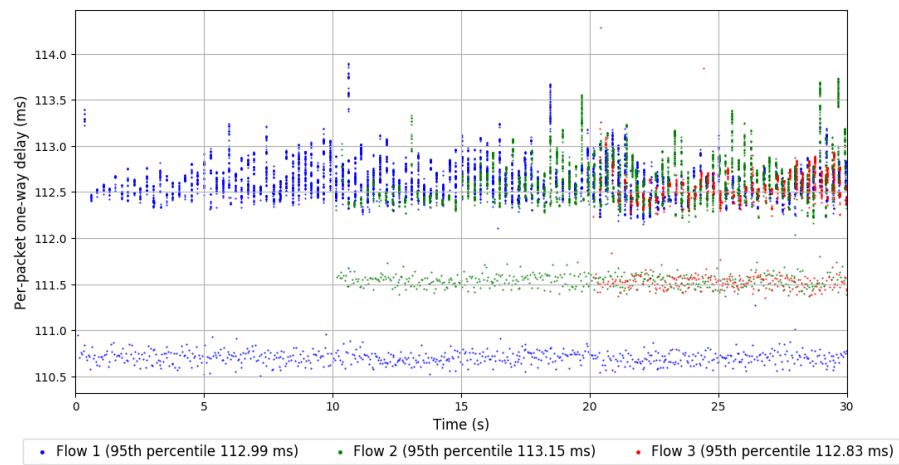
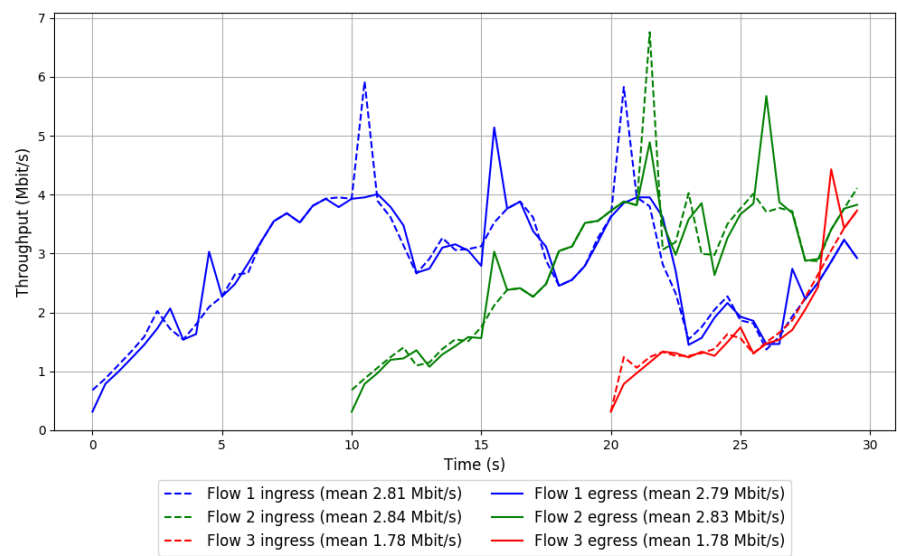
-- Flow 3:

Average throughput: 1.78 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-22 05:00:41

End at: 2017-09-22 05:01:11

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 112.988 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 3.07 Mbit/s

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

Loss rate: 0.49%

-- Flow 2:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 112.922 ms

Loss rate: 0.00%

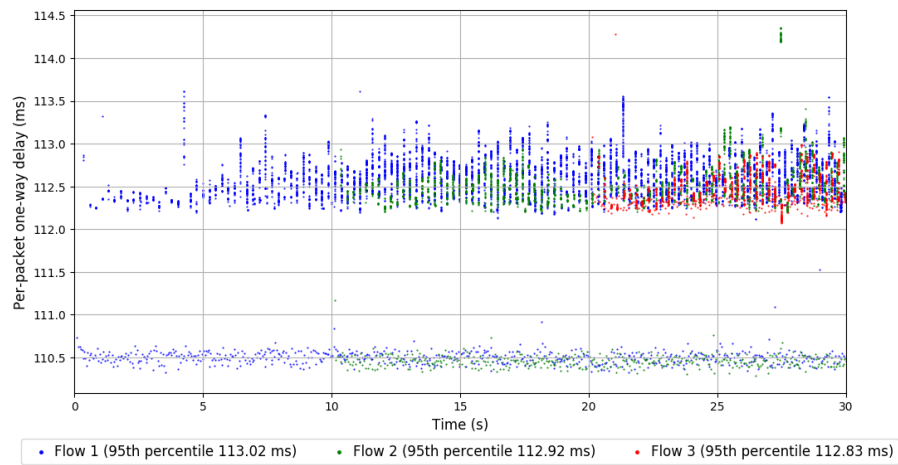
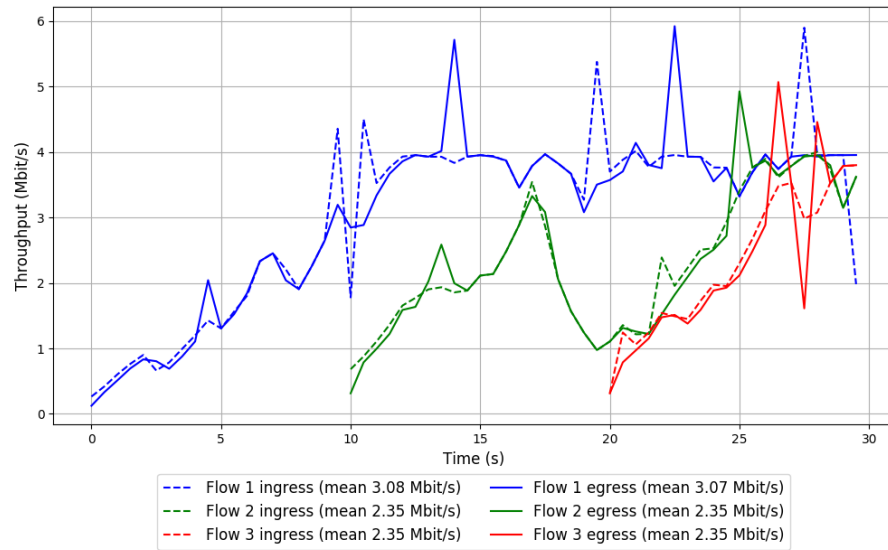
-- Flow 3:

Average throughput: 2.35 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-22 05:13:46

End at: 2017-09-22 05:14:16

Below is generated by plot.py at 2017-09-22 06:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 112.920 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 1.94 Mbit/s

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

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.40 Mbit/s

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

Loss rate: 0.34%

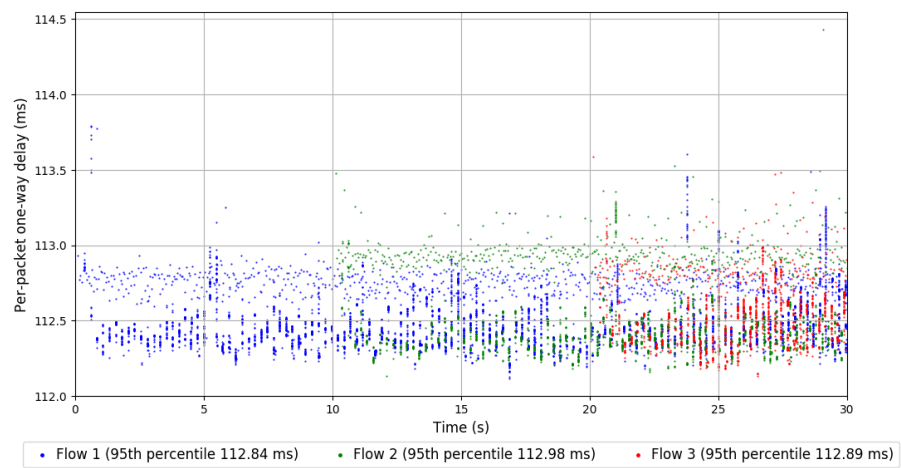
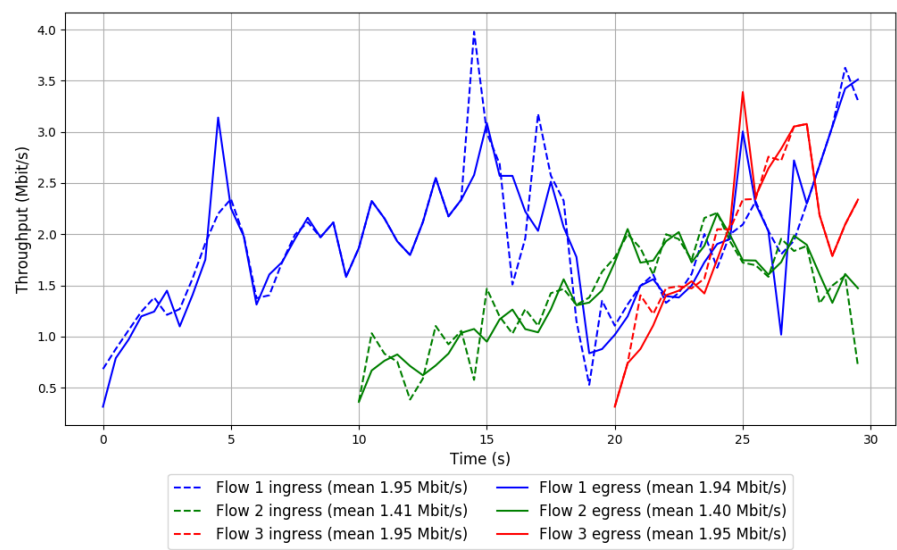
-- Flow 3:

Average throughput: 1.95 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

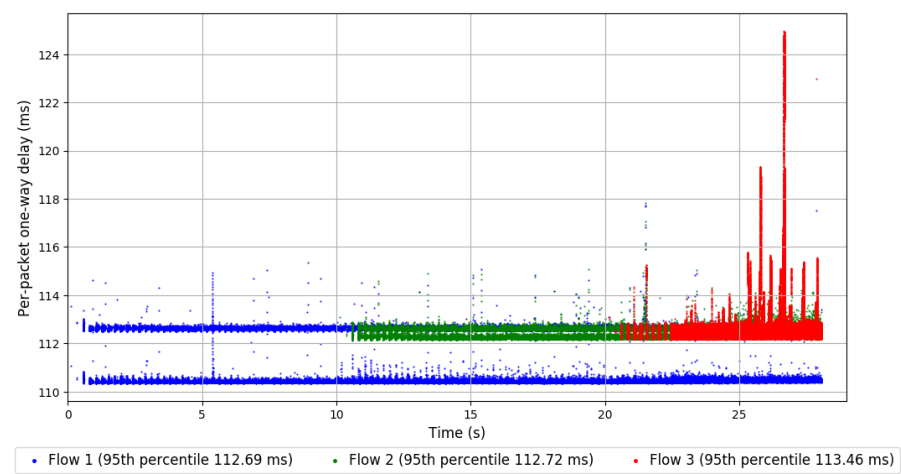
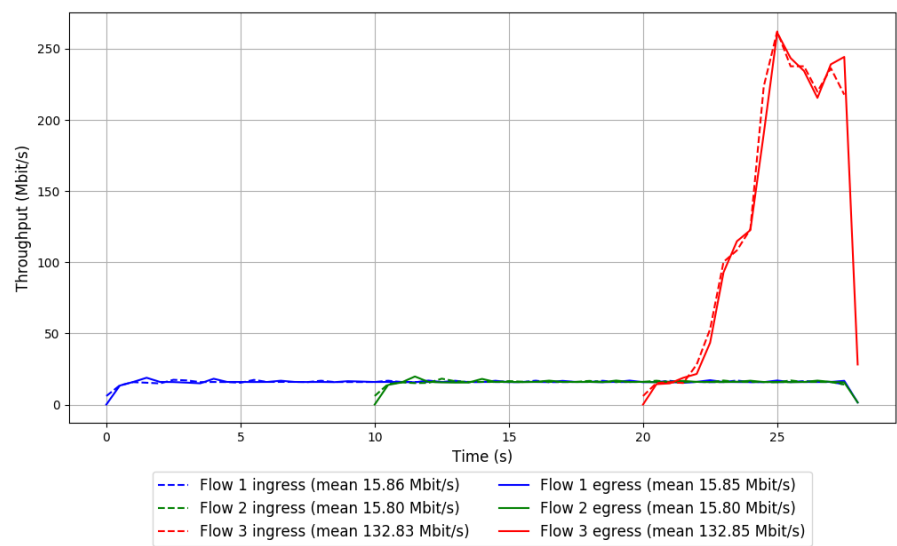


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-22 03:15:14
End at: 2017-09-22 03:15:44

# Below is generated by plot.py at 2017-09-22 06:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 112.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.85 Mbit/s
95th percentile per-packet one-way delay: 112.695 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 112.720 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 132.85 Mbit/s
95th percentile per-packet one-way delay: 113.464 ms
Loss rate: 0.01%
```


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

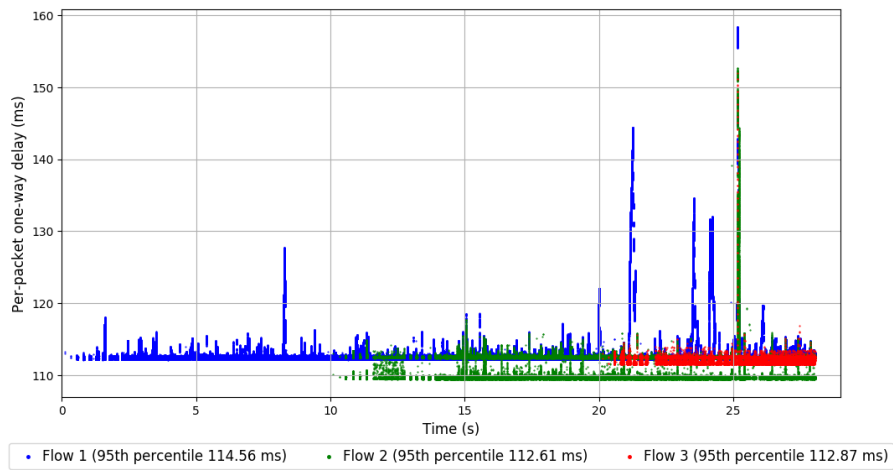
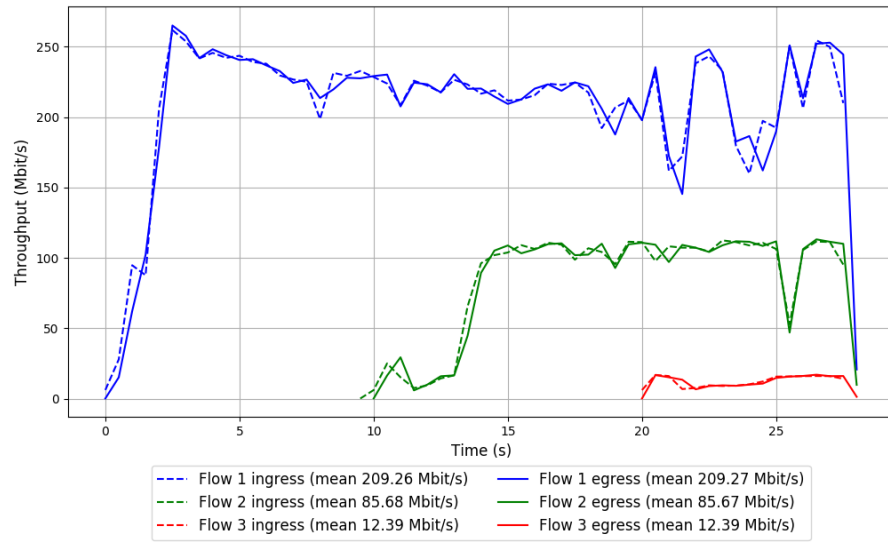


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-22 03:28:34
End at: 2017-09-22 03:29:04

# Below is generated by plot.py at 2017-09-22 06:34:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.82 Mbit/s
95th percentile per-packet one-way delay: 114.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.27 Mbit/s
95th percentile per-packet one-way delay: 114.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 112.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 112.866 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-22 03:42:23

End at: 2017-09-22 03:42:53

Below is generated by plot.py at 2017-09-22 06:34:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.35 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.06 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 112.629 ms

Loss rate: 0.00%

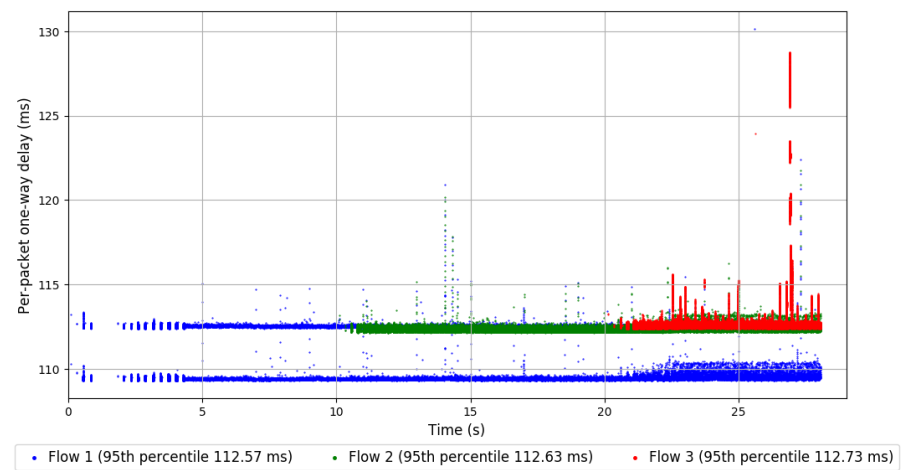
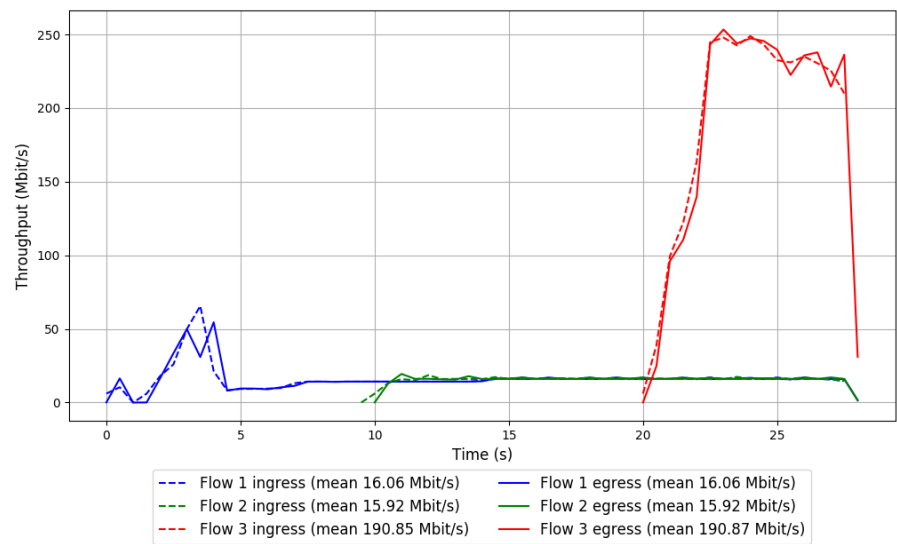
-- Flow 3:

Average throughput: 190.87 Mbit/s

95th percentile per-packet one-way delay: 112.731 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-22 03:55:44

End at: 2017-09-22 03:56:14

Below is generated by plot.py at 2017-09-22 06:34:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.76 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 111.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 112.714 ms

Loss rate: 0.00%

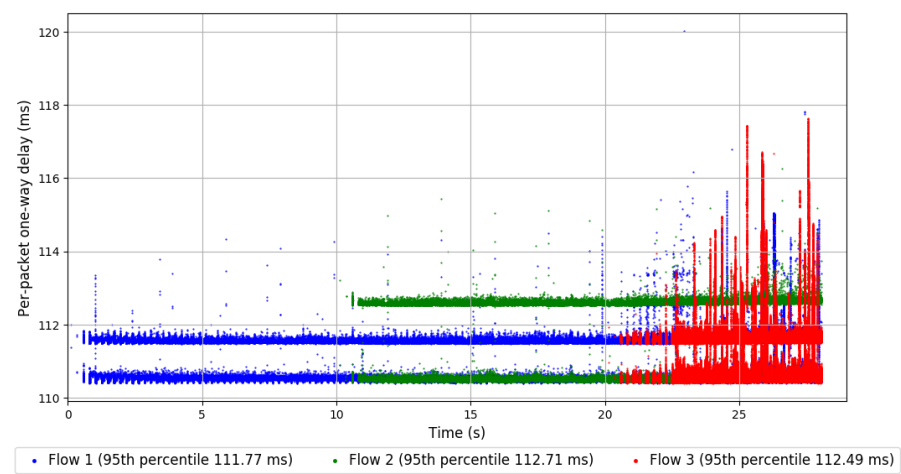
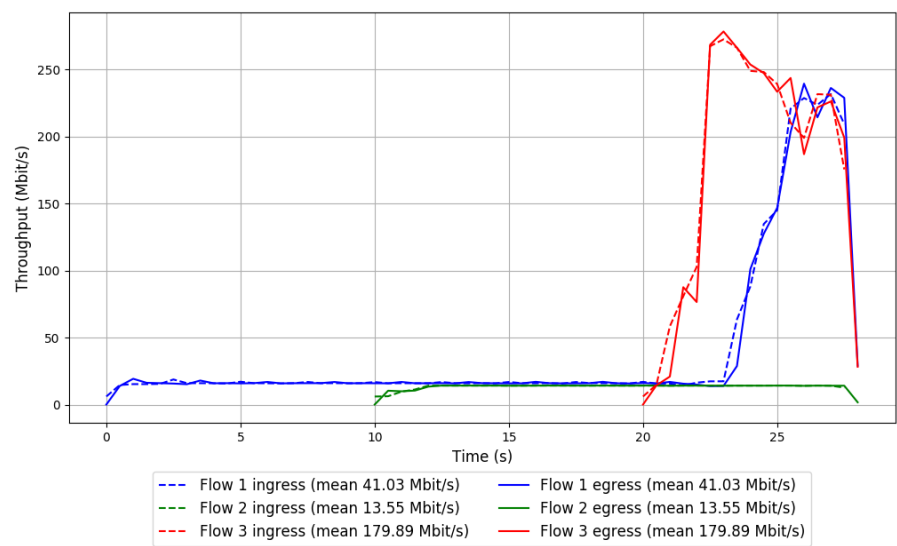
-- Flow 3:

Average throughput: 179.89 Mbit/s

95th percentile per-packet one-way delay: 112.488 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-22 04:09:07

End at: 2017-09-22 04:09:37

Below is generated by plot.py at 2017-09-22 06:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.21 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 208.31 Mbit/s

95th percentile per-packet one-way delay: 111.048 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 185.00 Mbit/s

95th percentile per-packet one-way delay: 121.318 ms

Loss rate: 0.00%

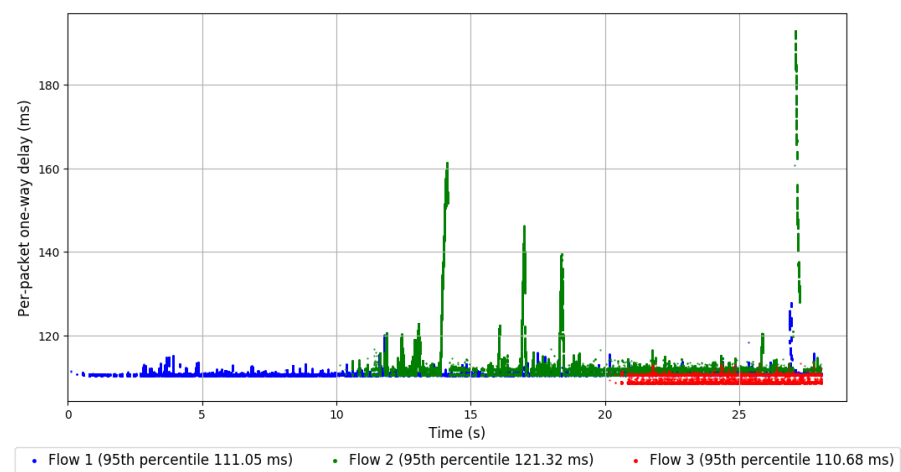
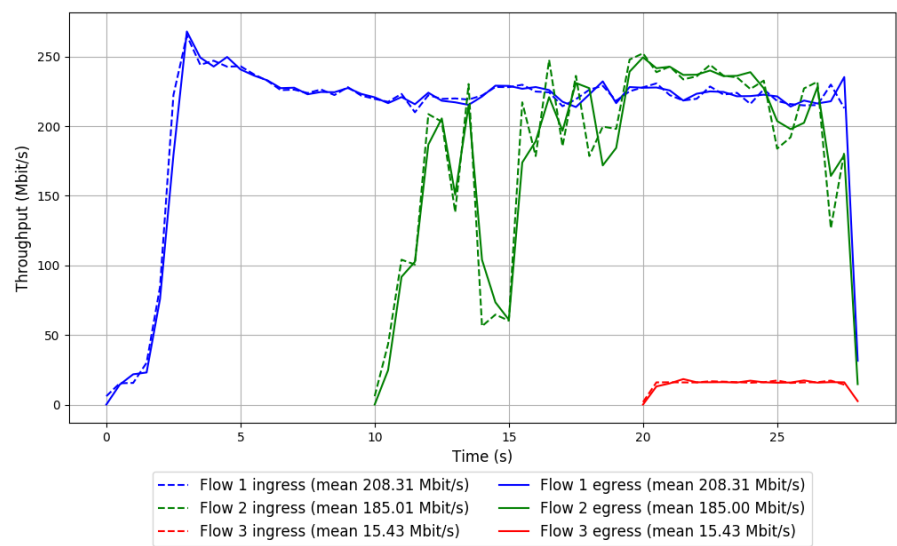
-- Flow 3:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 110.676 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-22 04:23:02

End at: 2017-09-22 04:23:32

Below is generated by plot.py at 2017-09-22 06:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.86 Mbit/s

95th percentile per-packet one-way delay: 115.659 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 179.81 Mbit/s

95th percentile per-packet one-way delay: 120.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.91 Mbit/s

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

Loss rate: 0.00%

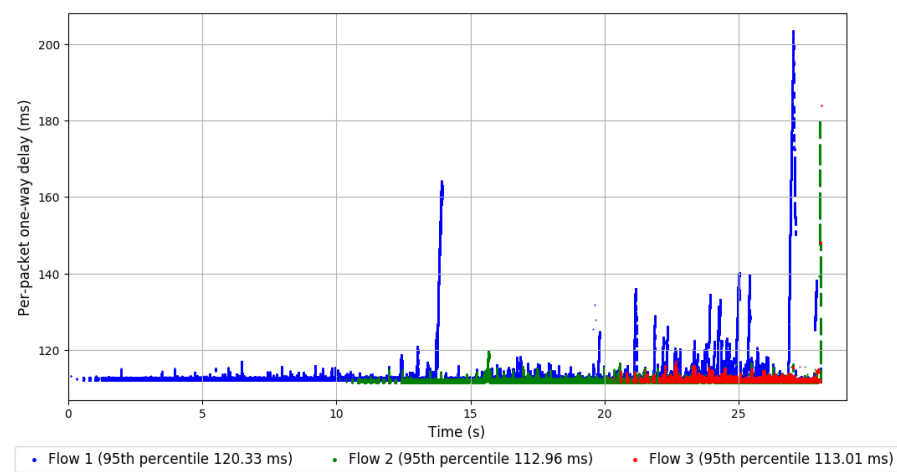
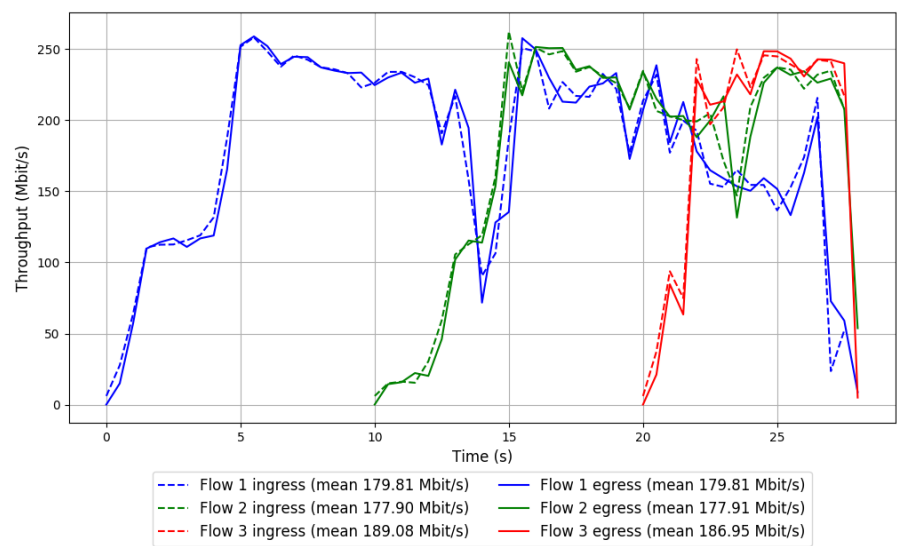
-- Flow 3:

Average throughput: 186.95 Mbit/s

95th percentile per-packet one-way delay: 113.012 ms

Loss rate: 0.83%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-22 04:36:48

End at: 2017-09-22 04:37:18

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.23 Mbit/s

95th percentile per-packet one-way delay: 114.367 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 207.04 Mbit/s

95th percentile per-packet one-way delay: 114.414 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.09 Mbit/s

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

Loss rate: 0.01%

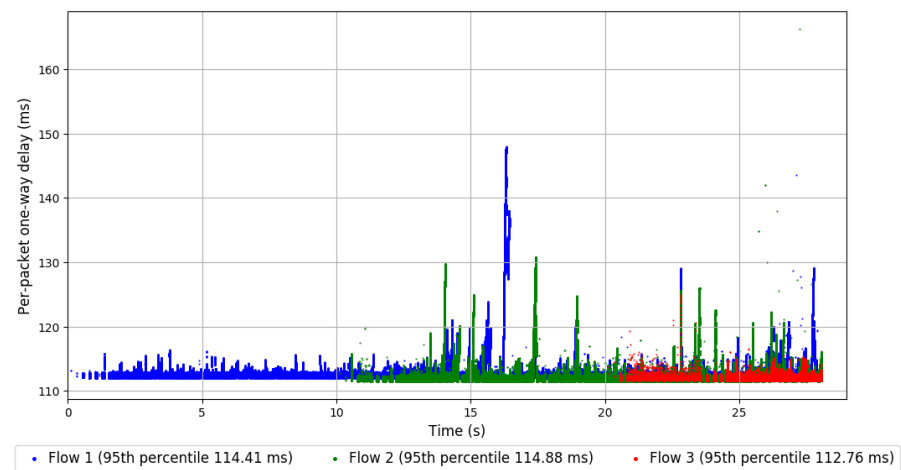
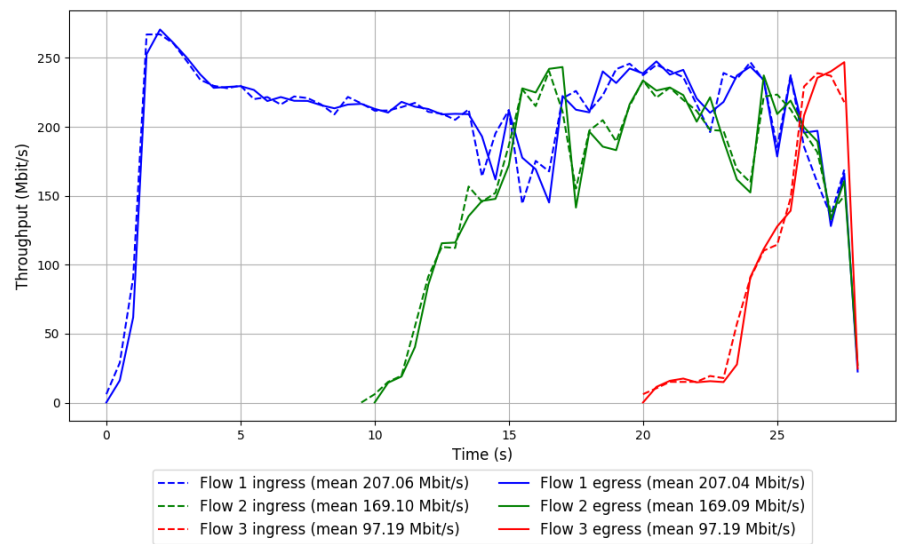
-- Flow 3:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 112.756 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-22 04:50:49

End at: 2017-09-22 04:51:19

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 112.444 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 112.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 112.254 ms

Loss rate: 0.00%

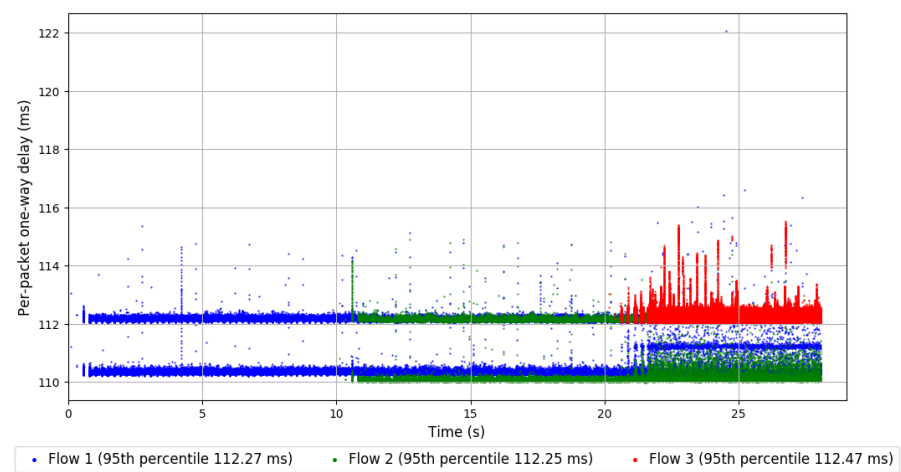
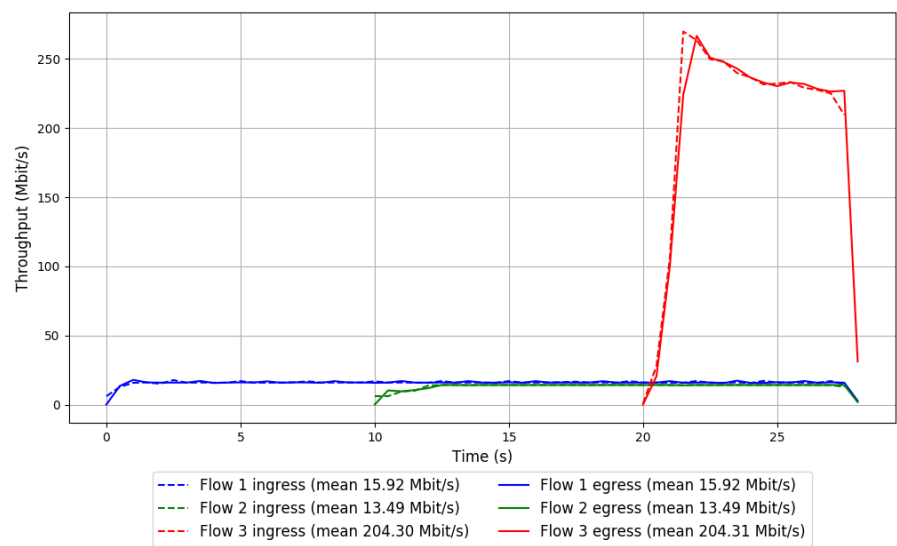
-- Flow 3:

Average throughput: 204.31 Mbit/s

95th percentile per-packet one-way delay: 112.469 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-22 05:03:55

End at: 2017-09-22 05:04:25

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.36 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 215.65 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.89 Mbit/s

95th percentile per-packet one-way delay: 112.238 ms

Loss rate: 0.00%

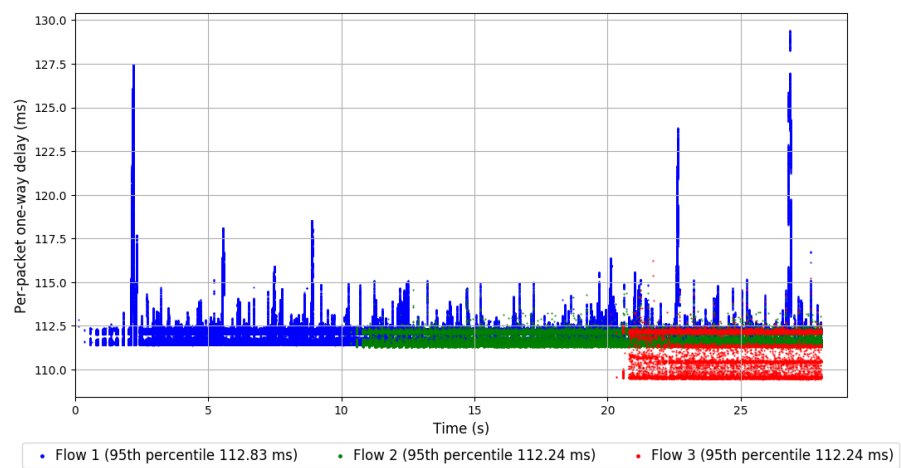
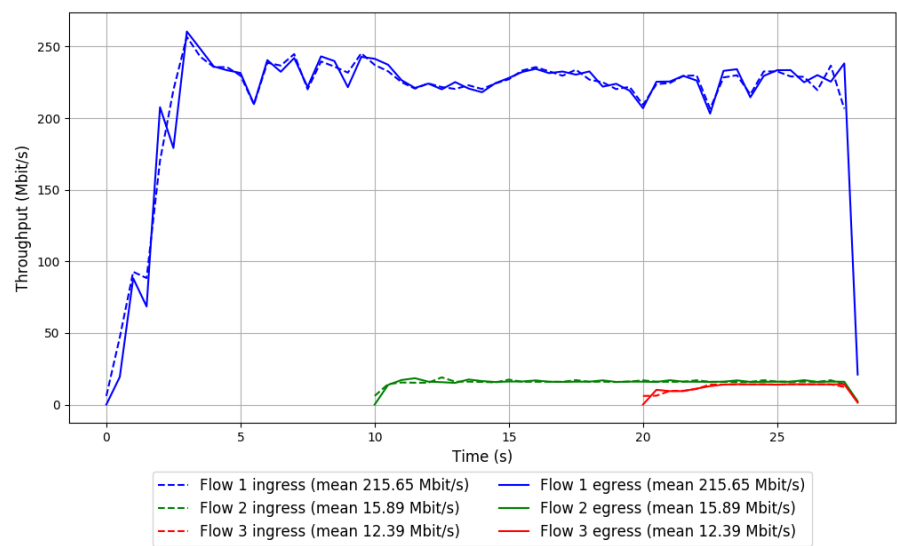
-- Flow 3:

Average throughput: 12.39 Mbit/s

95th percentile per-packet one-way delay: 112.241 ms

Loss rate: 0.00%

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

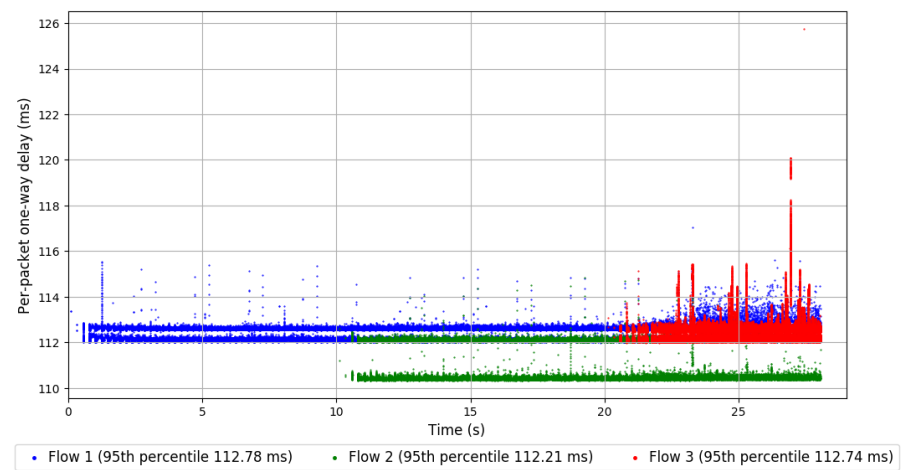
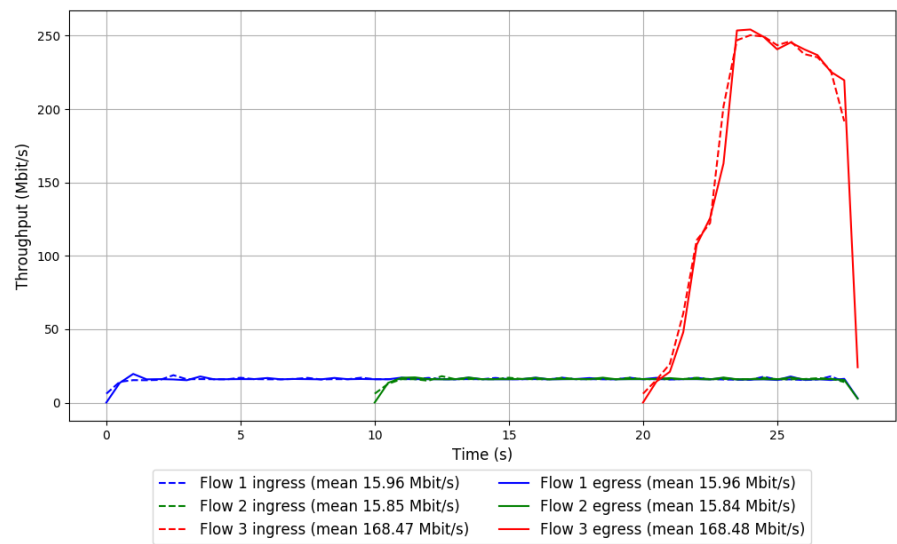


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-22 05:16:59
End at: 2017-09-22 05:17:29

# Below is generated by plot.py at 2017-09-22 06:36:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 112.730 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 112.775 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 15.84 Mbit/s
95th percentile per-packet one-way delay: 112.209 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 112.739 ms
Loss rate: 0.05%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-22 03:10:14

End at: 2017-09-22 03:10:44

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.64 Mbit/s

95th percentile per-packet one-way delay: 114.699 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 113.631 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 54.30 Mbit/s

95th percentile per-packet one-way delay: 115.251 ms

Loss rate: 0.01%

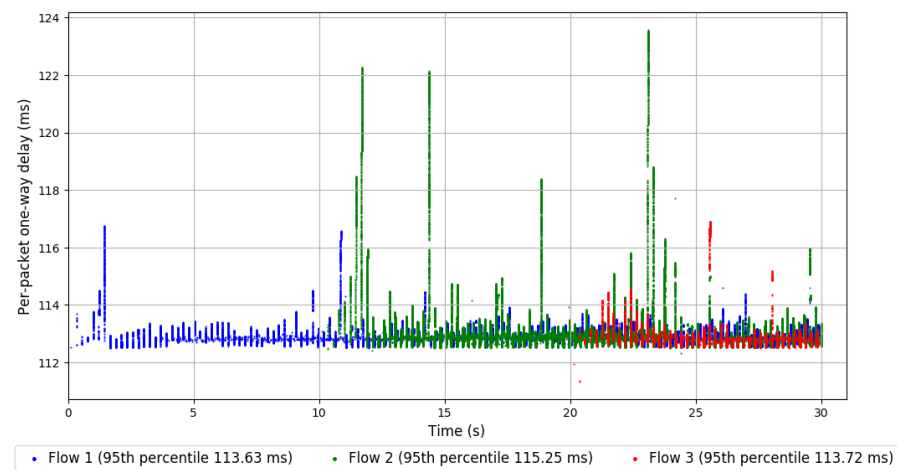
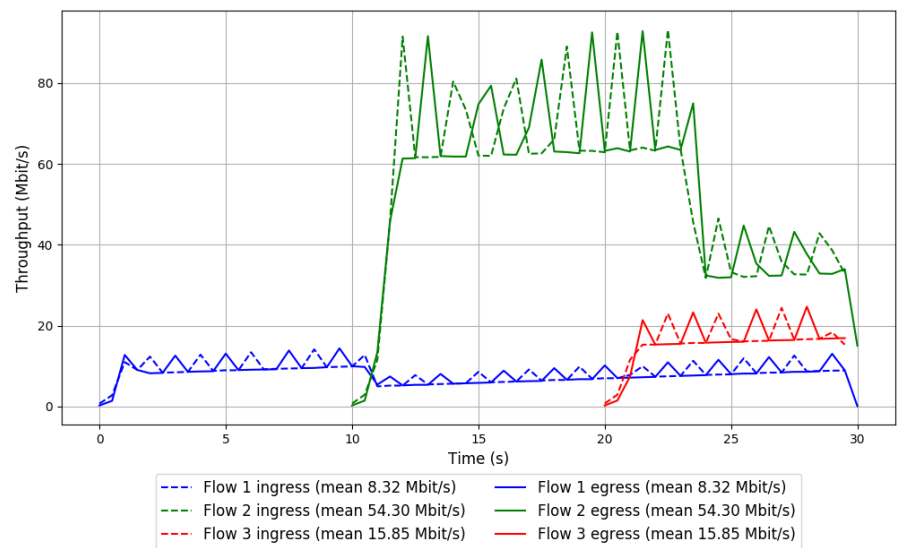
-- Flow 3:

Average throughput: 15.85 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-22 03:23:35

End at: 2017-09-22 03:24:05

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 114.691 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 12.80 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 17.74 Mbit/s

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

Loss rate: 0.00%

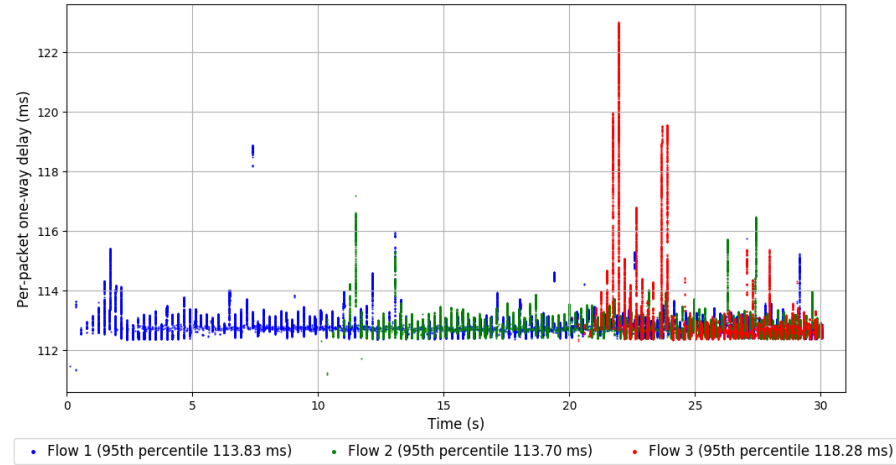
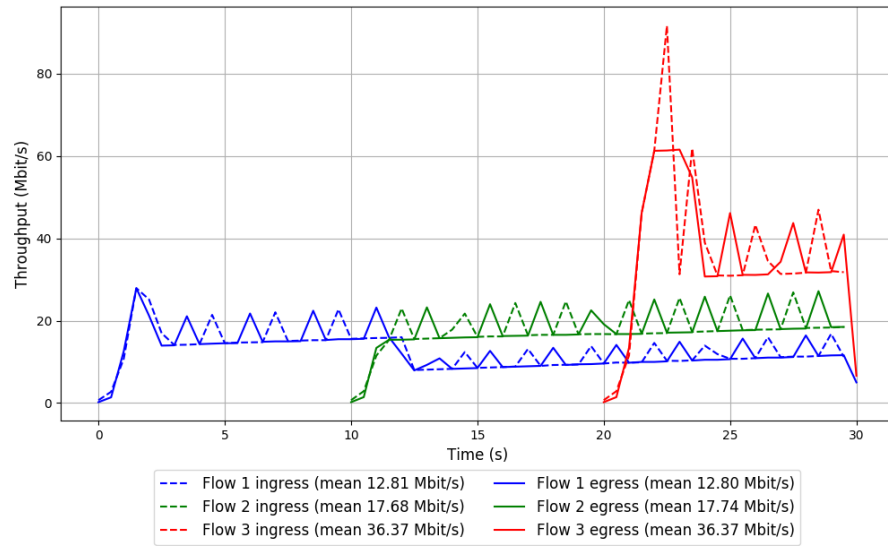
-- Flow 3:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 118.285 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

End at: 2017-09-22 03:37:52

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 113.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 113.515 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.89 Mbit/s

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

Loss rate: 0.00%

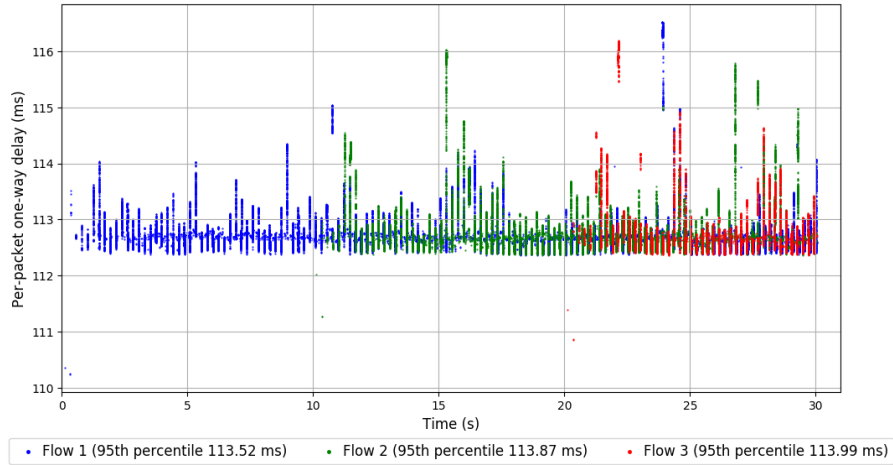
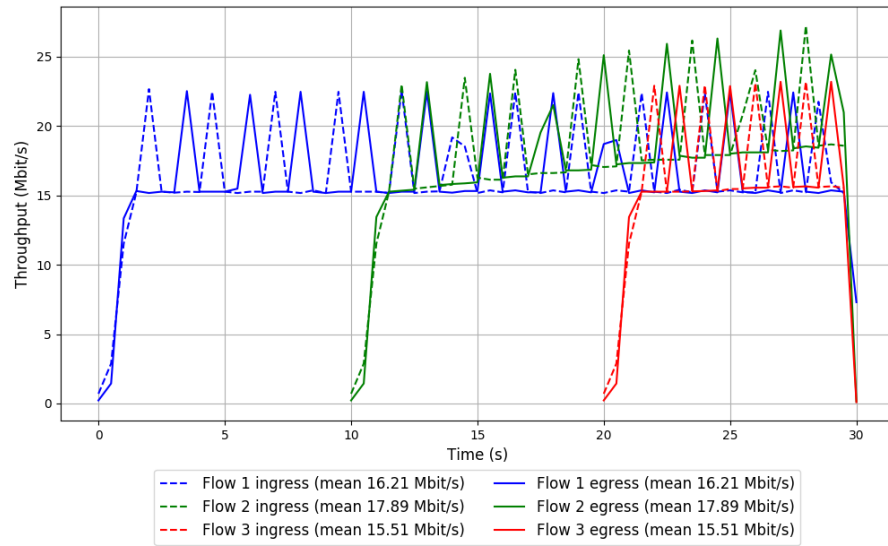
-- Flow 3:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 113.994 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-22 03:50:42

End at: 2017-09-22 03:51:12

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.19 Mbit/s

95th percentile per-packet one-way delay: 112.478 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 112.303 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 112.962 ms

Loss rate: 0.00%

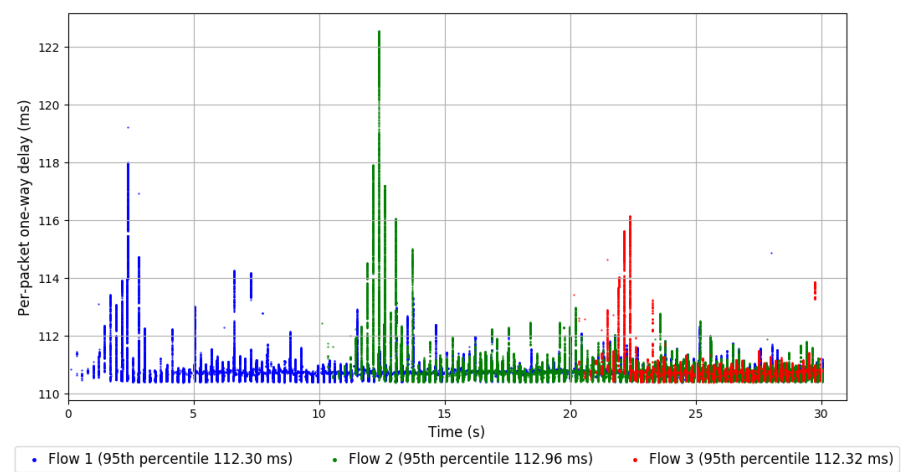
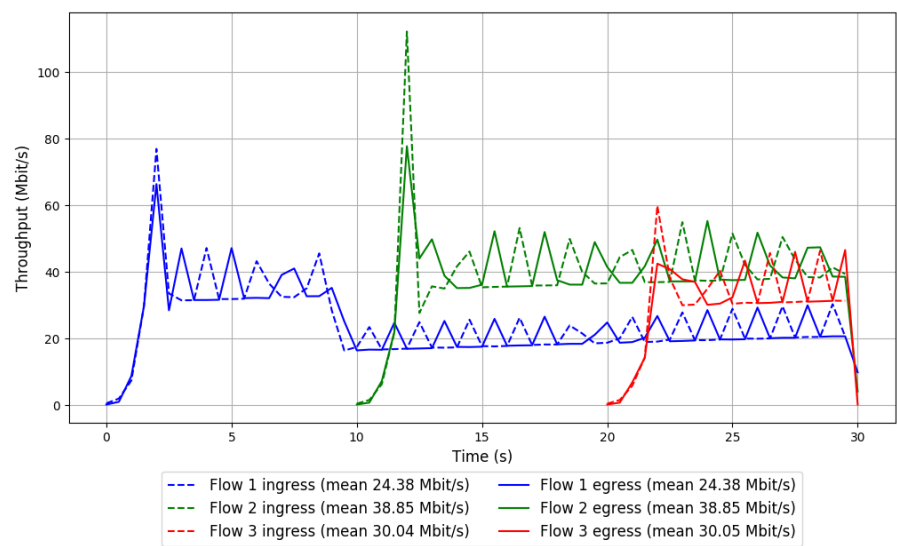
-- Flow 3:

Average throughput: 30.05 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-22 04:04:06

End at: 2017-09-22 04:04:36

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 112.492 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 18.49 Mbit/s

95th percentile per-packet one-way delay: 111.909 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 113.455 ms

Loss rate: 0.00%

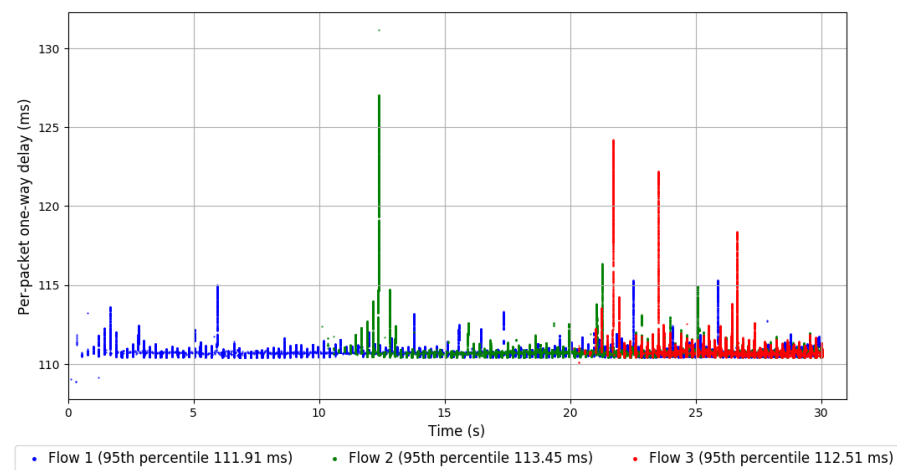
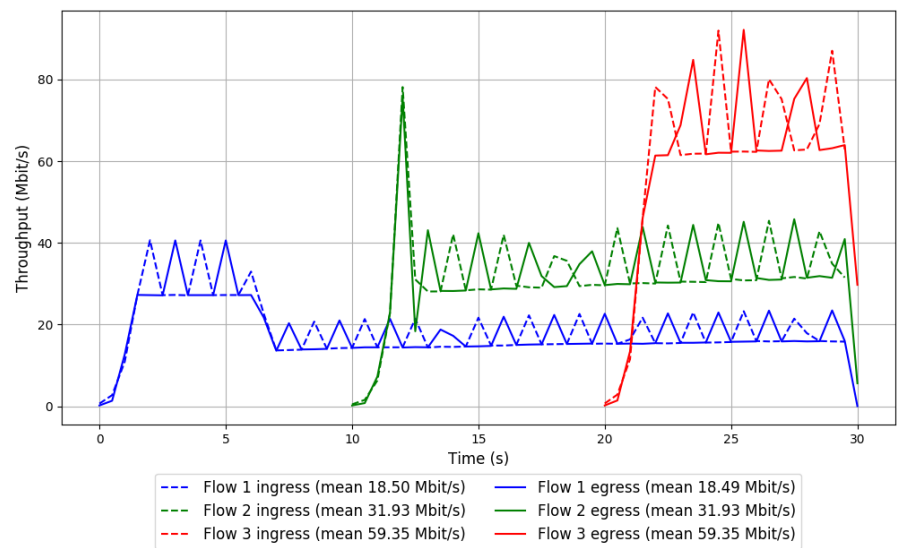
-- Flow 3:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 112.514 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-22 04:17:59

End at: 2017-09-22 04:18:29

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 118.649 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 29.05 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 121.204 ms

Loss rate: 0.00%

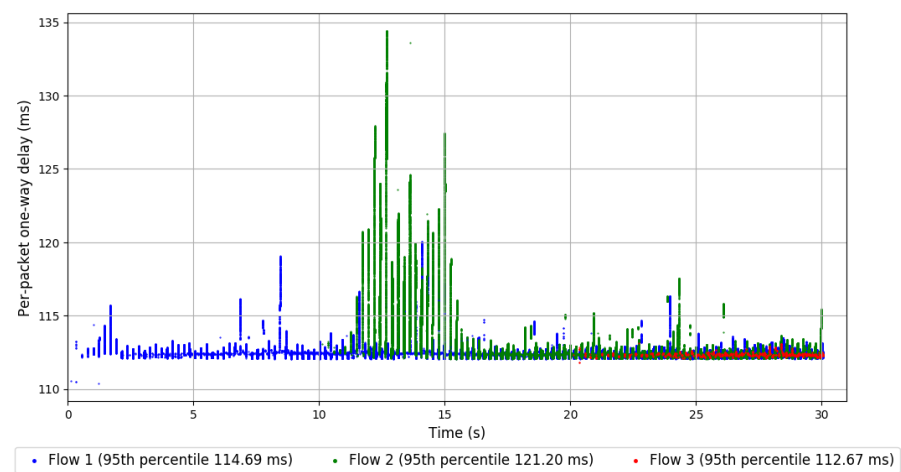
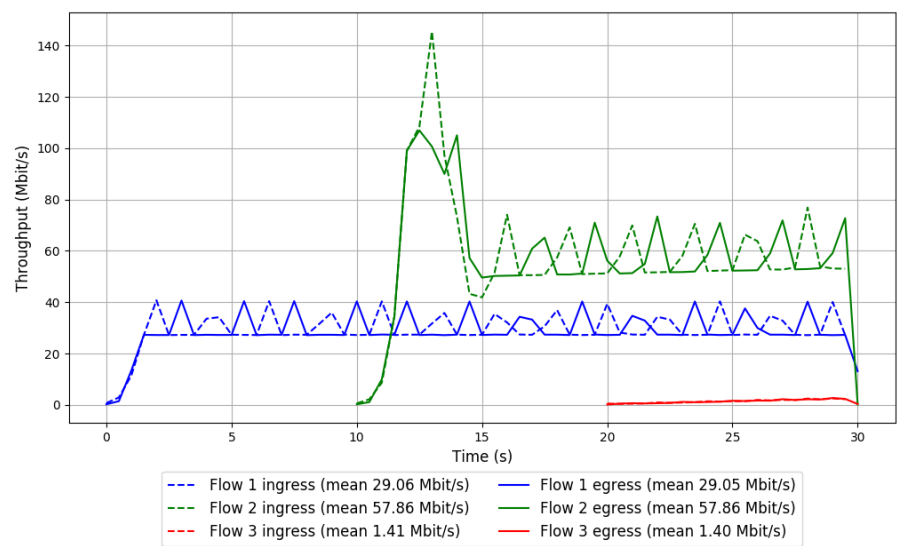
-- Flow 3:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 112.668 ms

Loss rate: 0.34%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-22 04:31:49

End at: 2017-09-22 04:32:19

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.23 Mbit/s

95th percentile per-packet one-way delay: 113.030 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 6.94 Mbit/s

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

Loss rate: 0.09%

-- Flow 2:

Average throughput: 16.84 Mbit/s

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

Loss rate: 0.00%

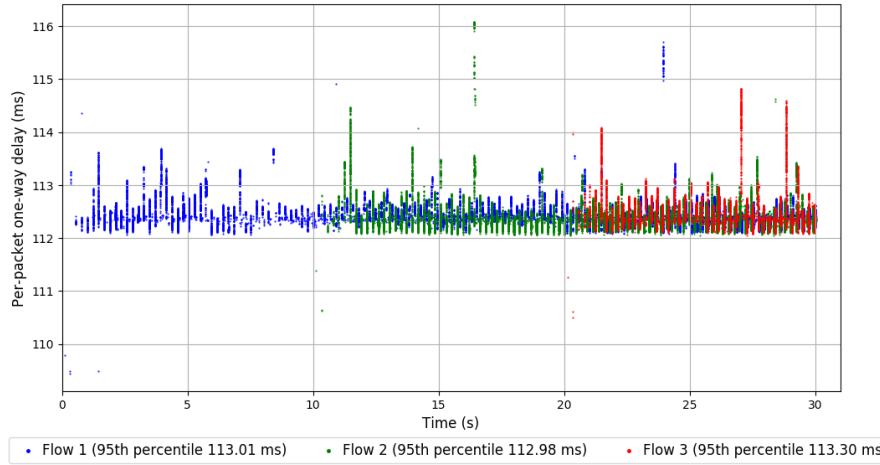
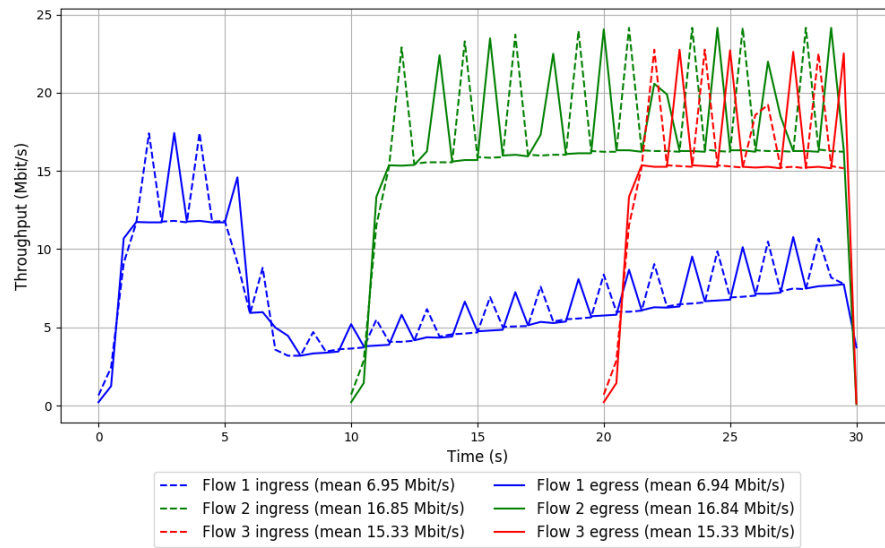
-- Flow 3:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 113.302 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-22 04:45:46

End at: 2017-09-22 04:46:16

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.49 Mbit/s

95th percentile per-packet one-way delay: 113.694 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 113.366 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.12 Mbit/s

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

Loss rate: 0.00%

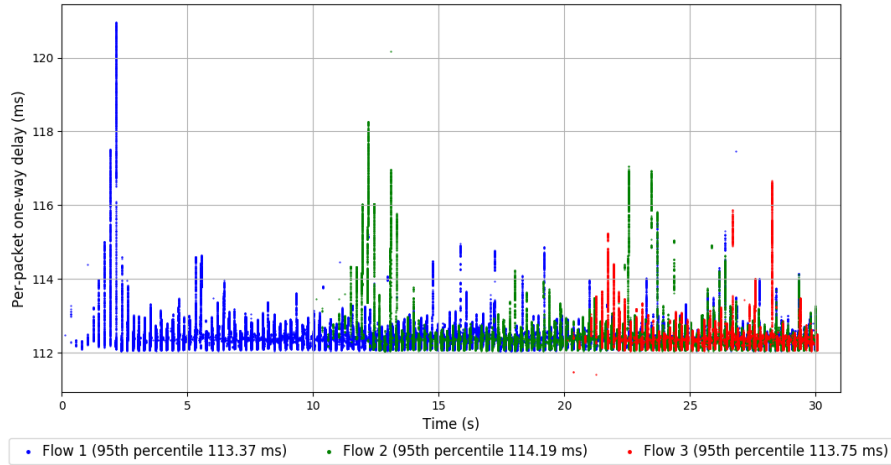
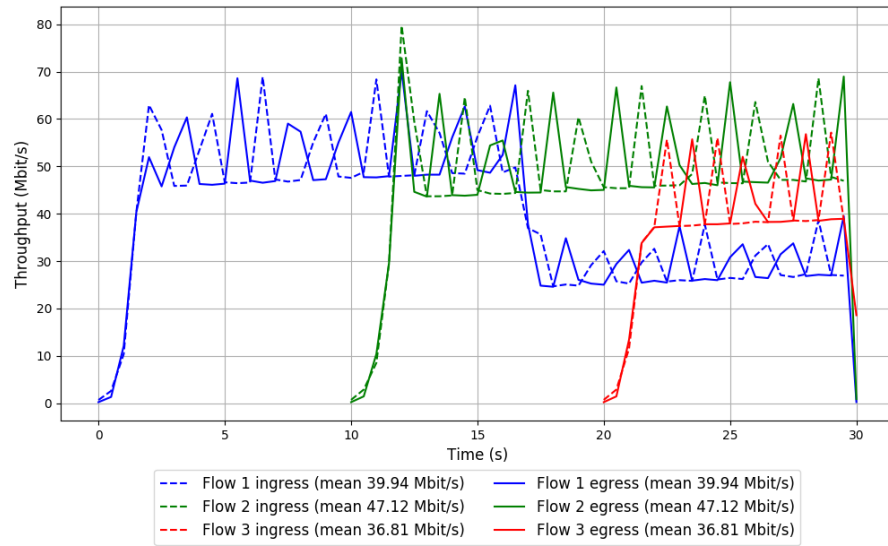
-- Flow 3:

Average throughput: 36.81 Mbit/s

95th percentile per-packet one-way delay: 113.755 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-22 04:58:56

End at: 2017-09-22 04:59:26

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.44 Mbit/s

95th percentile per-packet one-way delay: 113.862 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 15.50 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 46.23 Mbit/s

95th percentile per-packet one-way delay: 114.479 ms

Loss rate: 0.01%

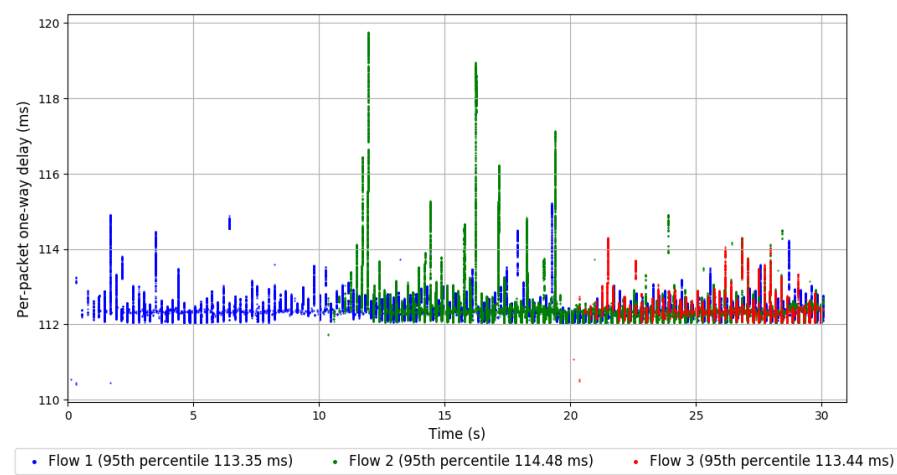
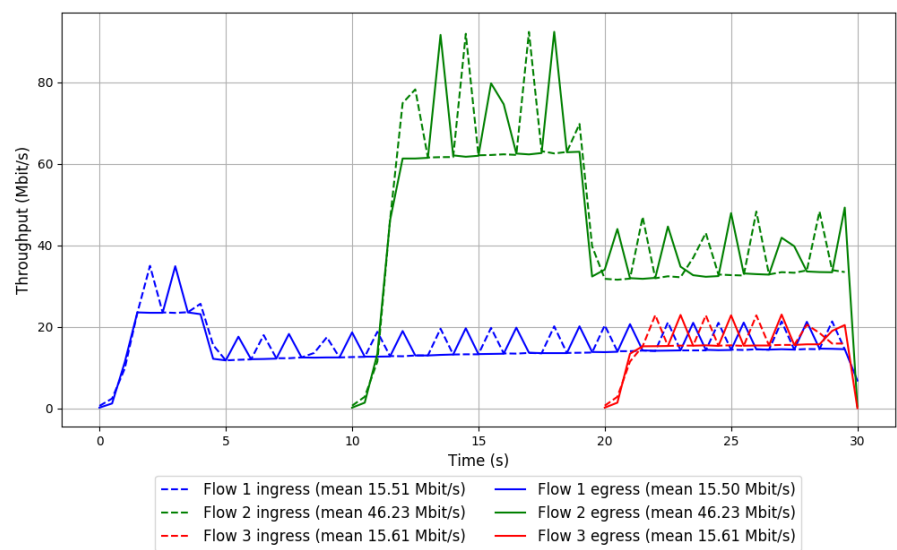
-- Flow 3:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 113.438 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-22 05:11:59

End at: 2017-09-22 05:12:29

Below is generated by plot.py at 2017-09-22 06:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.41 Mbit/s

95th percentile per-packet one-way delay: 119.043 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 116.727 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 121.296 ms

Loss rate: 0.01%

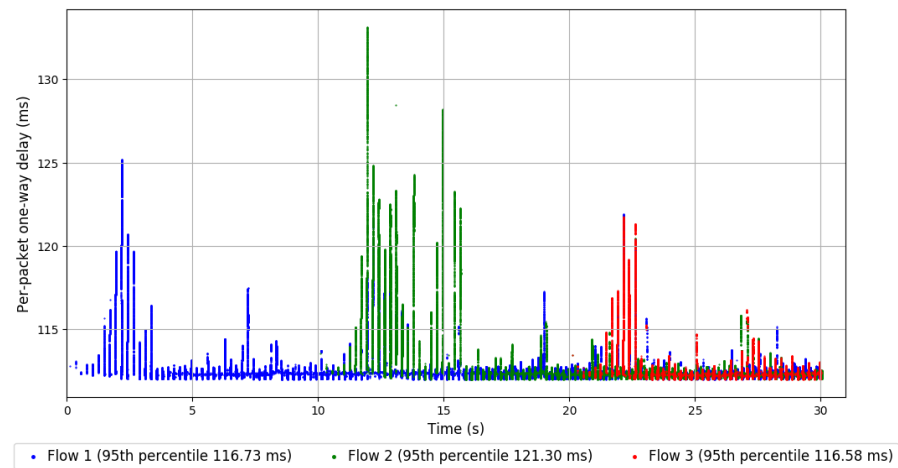
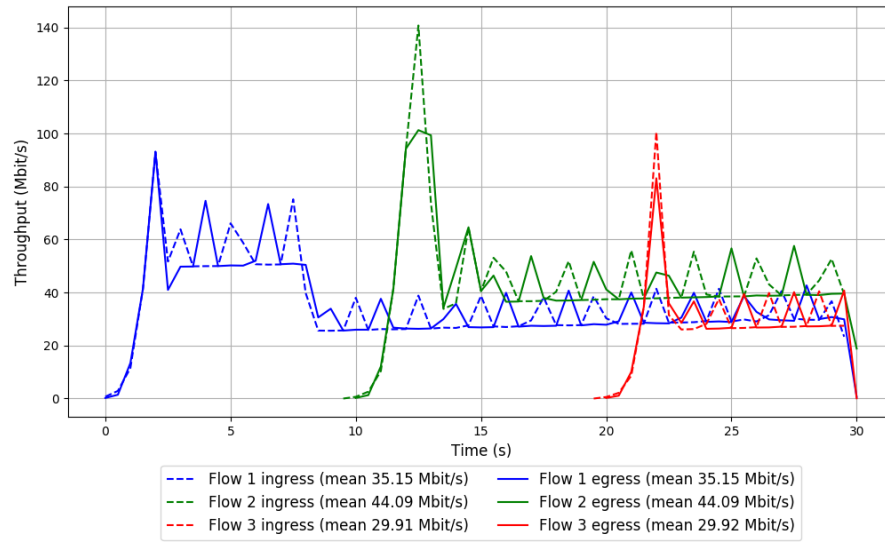
-- Flow 3:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 116.585 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-22 03:08:07

End at: 2017-09-22 03:08:37

Below is generated by plot.py at 2017-09-22 06:39:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.13 Mbit/s

95th percentile per-packet one-way delay: 156.712 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 207.96 Mbit/s

95th percentile per-packet one-way delay: 156.406 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 133.991 ms

Loss rate: 0.03%

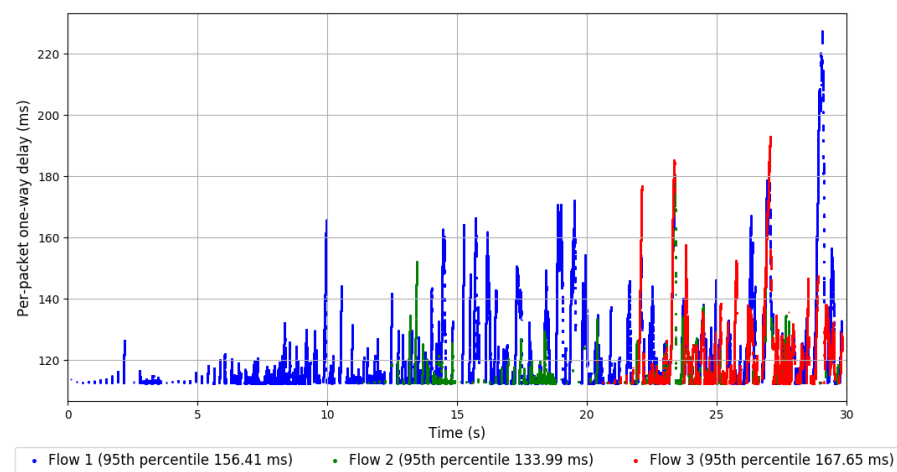
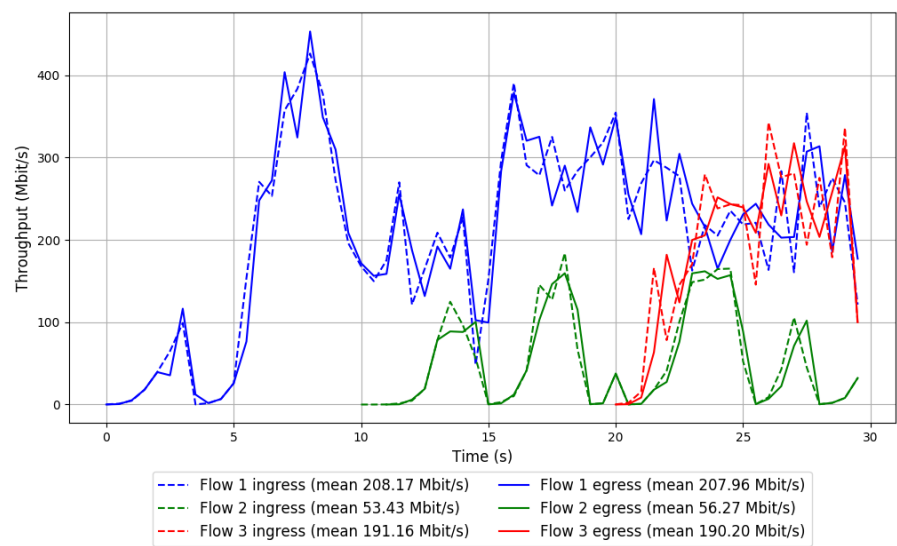
-- Flow 3:

Average throughput: 190.20 Mbit/s

95th percentile per-packet one-way delay: 167.653 ms

Loss rate: 0.51%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-22 03:21:27

End at: 2017-09-22 03:21:57

Below is generated by plot.py at 2017-09-22 06:40:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.41 Mbit/s

95th percentile per-packet one-way delay: 206.671 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 266.10 Mbit/s

95th percentile per-packet one-way delay: 199.493 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 254.039 ms

Loss rate: 6.55%

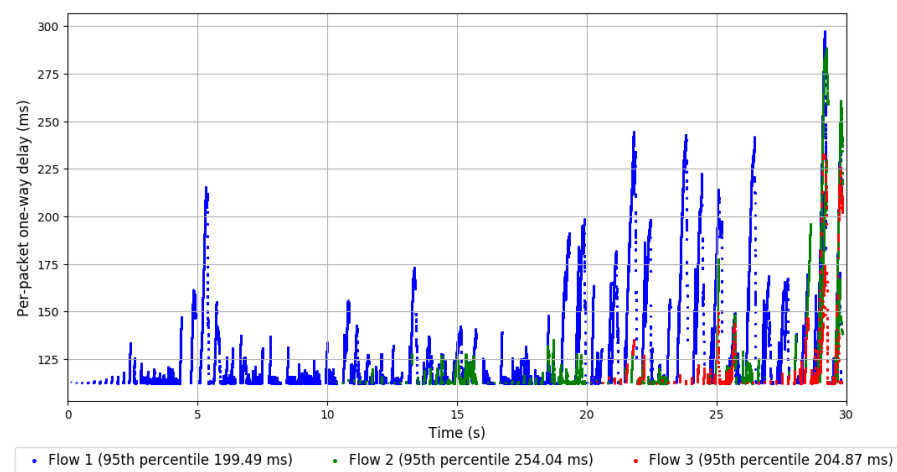
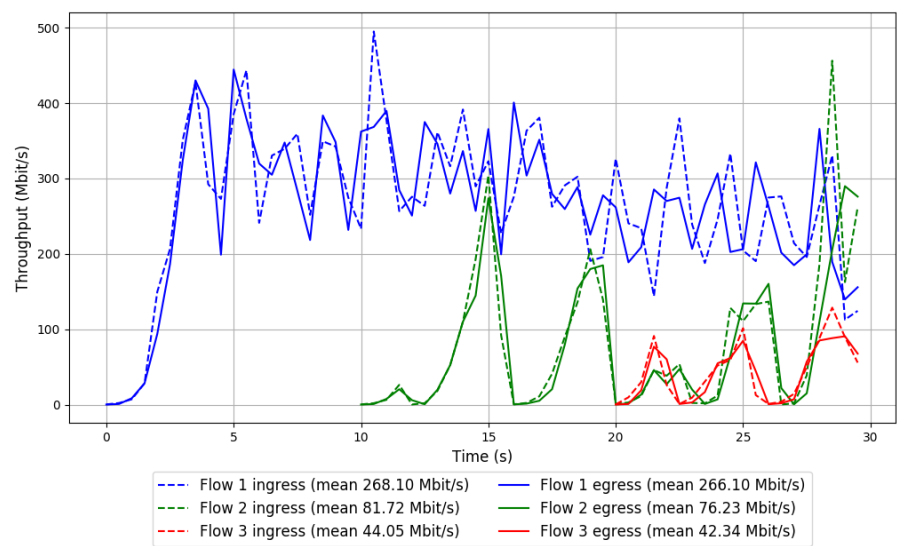
-- Flow 3:

Average throughput: 42.34 Mbit/s

95th percentile per-packet one-way delay: 204.873 ms

Loss rate: 3.86%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-22 03:35:10

End at: 2017-09-22 03:35:40

Below is generated by plot.py at 2017-09-22 06:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.89 Mbit/s

95th percentile per-packet one-way delay: 214.801 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 220.12 Mbit/s

95th percentile per-packet one-way delay: 201.901 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 213.48 Mbit/s

95th percentile per-packet one-way delay: 233.189 ms

Loss rate: 1.07%

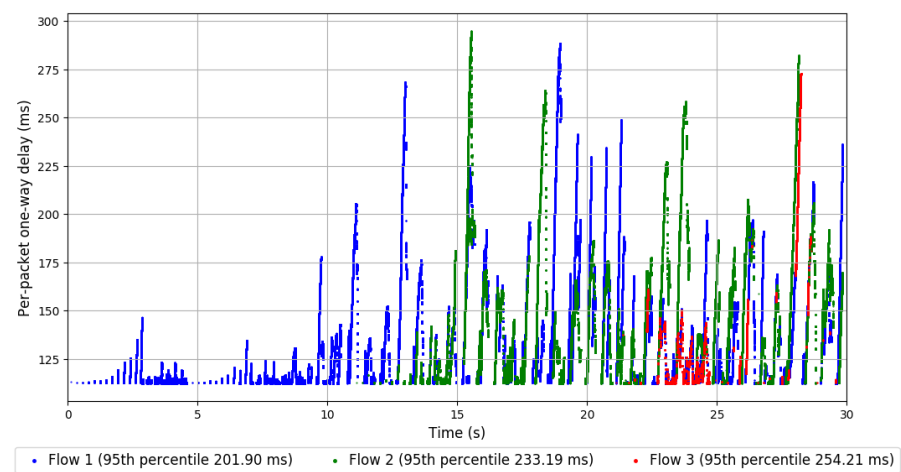
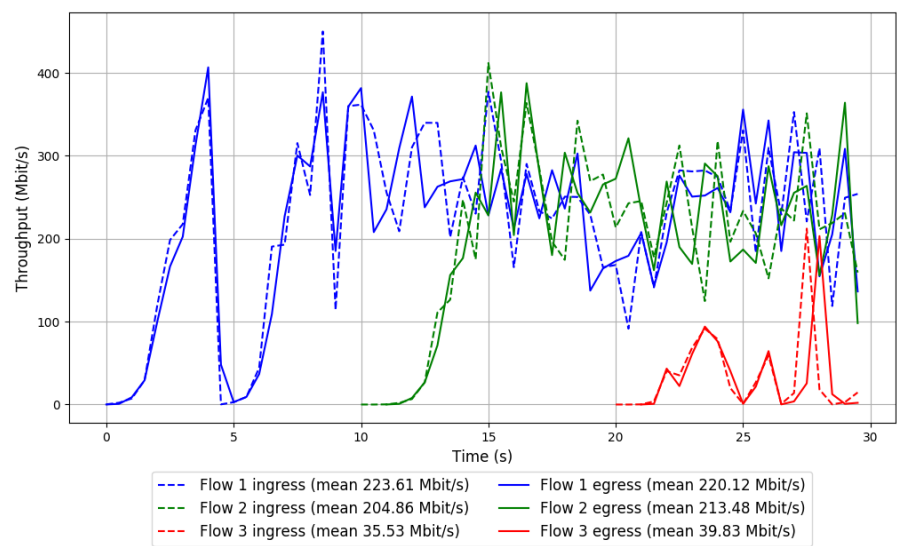
-- Flow 3:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 254.210 ms

Loss rate: 2.12%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-22 03:48:39

End at: 2017-09-22 03:49:09

Below is generated by plot.py at 2017-09-22 06:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.16 Mbit/s

95th percentile per-packet one-way delay: 234.688 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 179.38 Mbit/s

95th percentile per-packet one-way delay: 251.819 ms

Loss rate: 3.56%

-- Flow 2:

Average throughput: 114.76 Mbit/s

95th percentile per-packet one-way delay: 149.730 ms

Loss rate: 0.00%

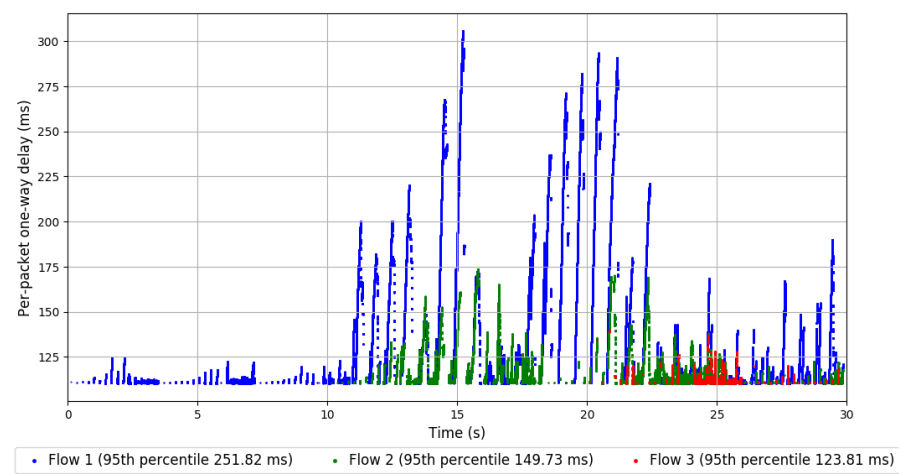
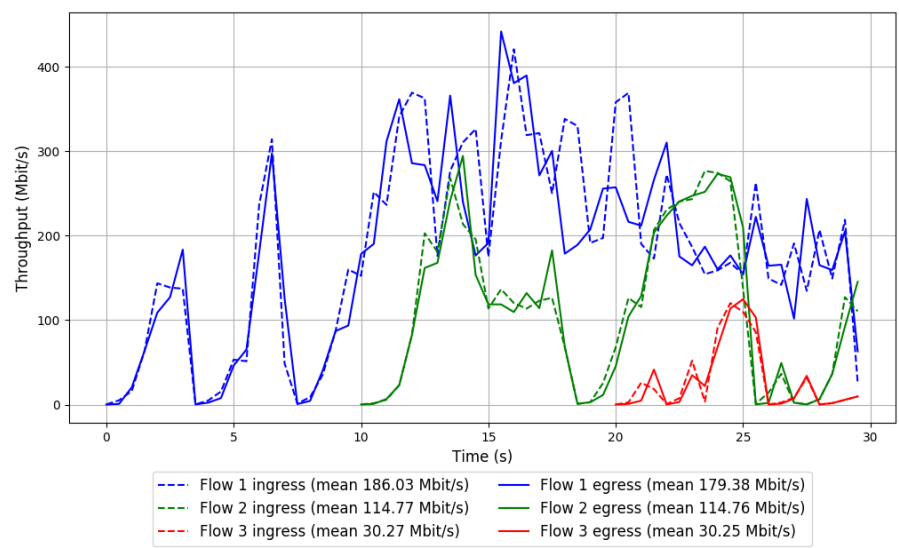
-- Flow 3:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 123.811 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-22 04:02:00

End at: 2017-09-22 04:02:30

Below is generated by plot.py at 2017-09-22 06:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.56 Mbit/s

95th percentile per-packet one-way delay: 172.844 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 203.40 Mbit/s

95th percentile per-packet one-way delay: 159.060 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 112.82 Mbit/s

95th percentile per-packet one-way delay: 206.314 ms

Loss rate: 0.52%

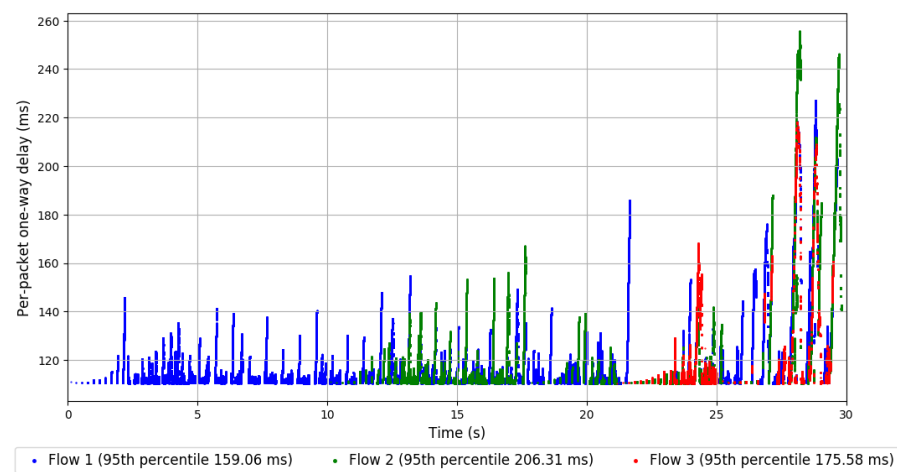
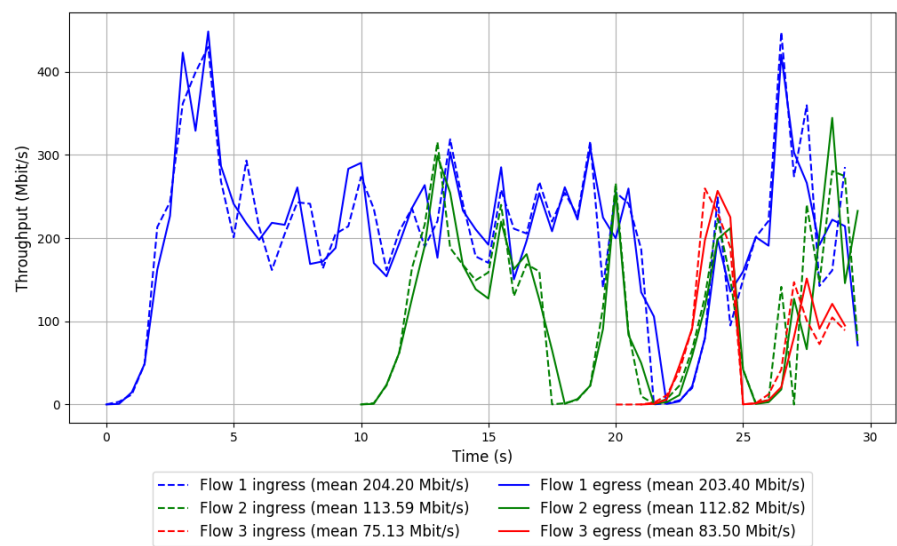
-- Flow 3:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 175.580 ms

Loss rate: 0.21%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-22 04:15:52

End at: 2017-09-22 04:16:22

Below is generated by plot.py at 2017-09-22 06:41:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.58 Mbit/s

95th percentile per-packet one-way delay: 273.986 ms

Loss rate: 5.11%

-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 172.753 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 248.50 Mbit/s

95th percentile per-packet one-way delay: 290.860 ms

Loss rate: 8.41%

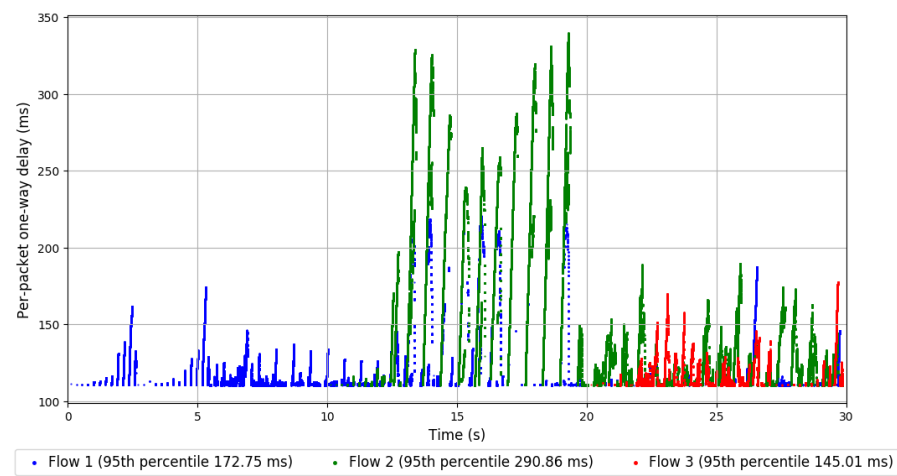
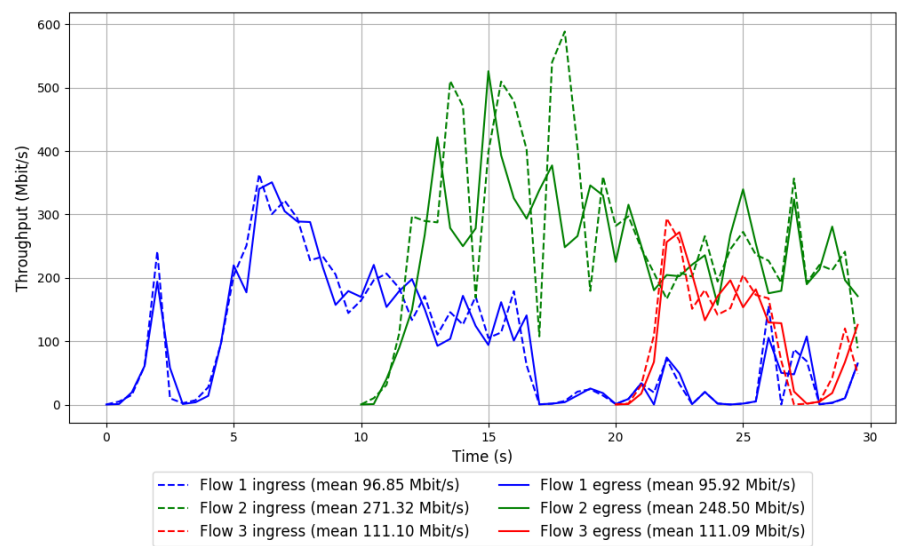
-- Flow 3:

Average throughput: 111.09 Mbit/s

95th percentile per-packet one-way delay: 145.008 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-22 04:29:45

End at: 2017-09-22 04:30:15

Below is generated by plot.py at 2017-09-22 06:41:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.18 Mbit/s

95th percentile per-packet one-way delay: 199.230 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 169.85 Mbit/s

95th percentile per-packet one-way delay: 223.637 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 132.65 Mbit/s

95th percentile per-packet one-way delay: 142.239 ms

Loss rate: 0.00%

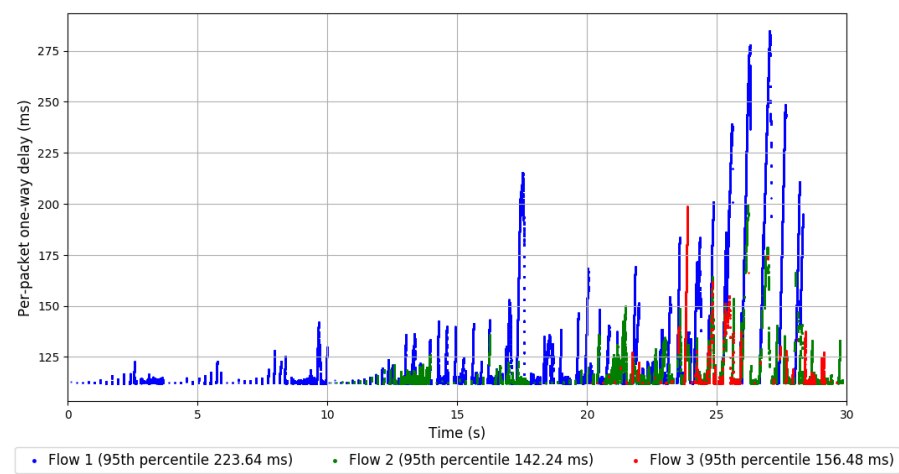
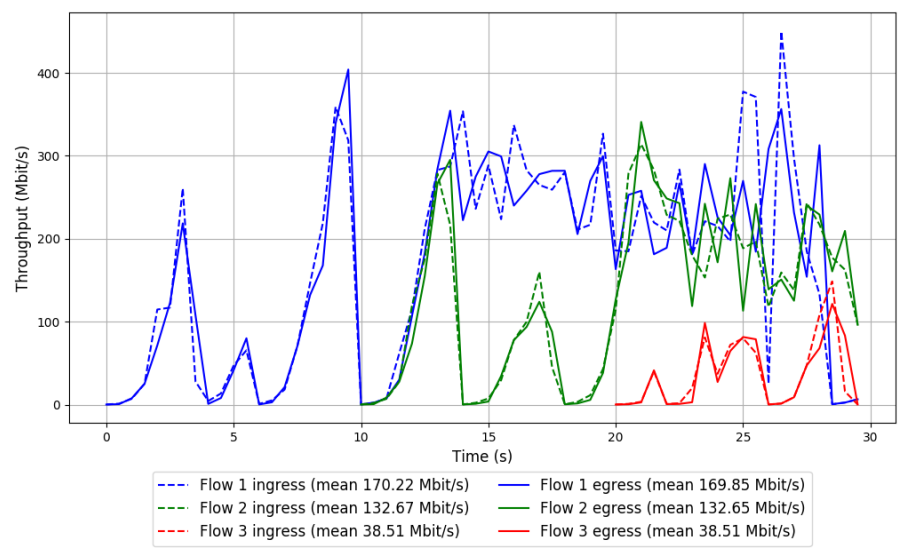
-- Flow 3:

Average throughput: 38.51 Mbit/s

95th percentile per-packet one-way delay: 156.476 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-22 04:43:34

End at: 2017-09-22 04:44:04

Below is generated by plot.py at 2017-09-22 06:42:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.80 Mbit/s

95th percentile per-packet one-way delay: 200.965 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 261.88 Mbit/s

95th percentile per-packet one-way delay: 208.644 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 110.14 Mbit/s

95th percentile per-packet one-way delay: 153.850 ms

Loss rate: 0.00%

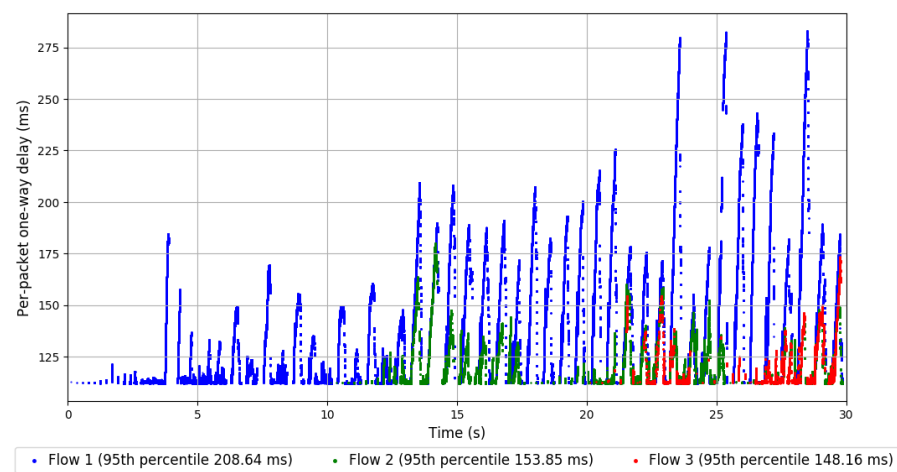
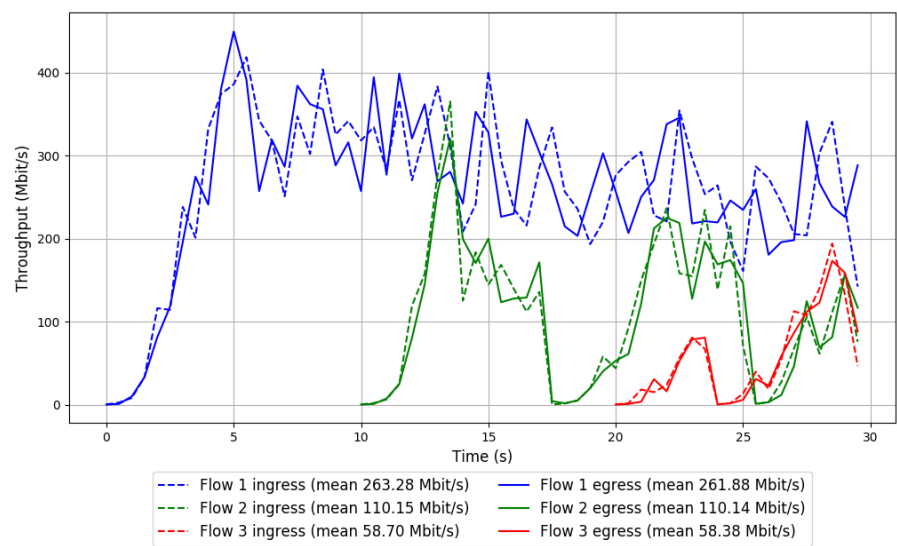
-- Flow 3:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 148.160 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-22 04:56:53

End at: 2017-09-22 04:57:23

Below is generated by plot.py at 2017-09-22 06:43:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.42 Mbit/s

95th percentile per-packet one-way delay: 163.900 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 203.382 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 237.43 Mbit/s

95th percentile per-packet one-way delay: 156.240 ms

Loss rate: 0.01%

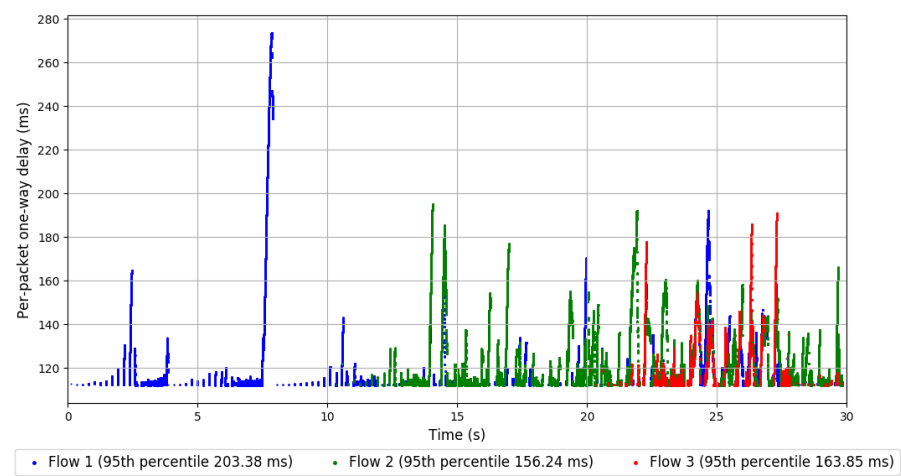
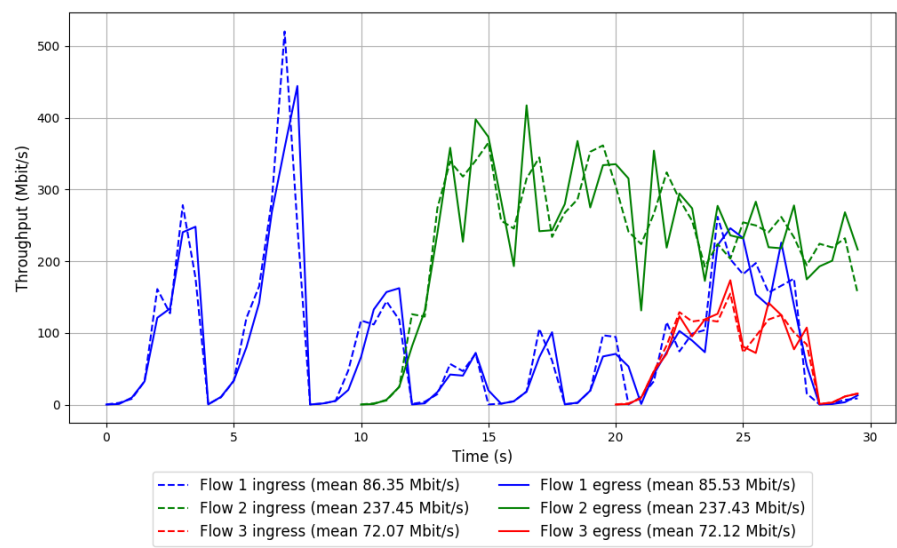
-- Flow 3:

Average throughput: 72.12 Mbit/s

95th percentile per-packet one-way delay: 163.853 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-22 05:10:00

End at: 2017-09-22 05:10:30

Below is generated by plot.py at 2017-09-22 06:43:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.74 Mbit/s

95th percentile per-packet one-way delay: 149.685 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 115.25 Mbit/s

95th percentile per-packet one-way delay: 128.442 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.23 Mbit/s

95th percentile per-packet one-way delay: 164.793 ms

Loss rate: 0.00%

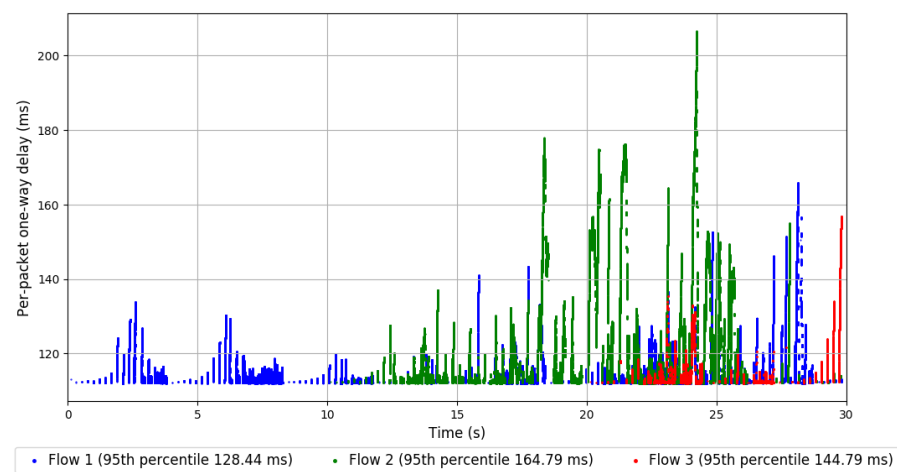
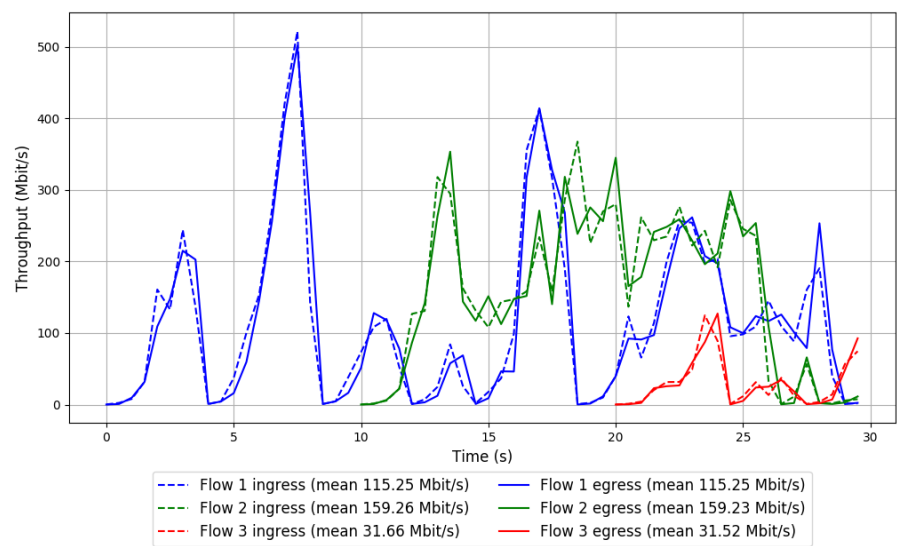
-- Flow 3:

Average throughput: 31.52 Mbit/s

95th percentile per-packet one-way delay: 144.787 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

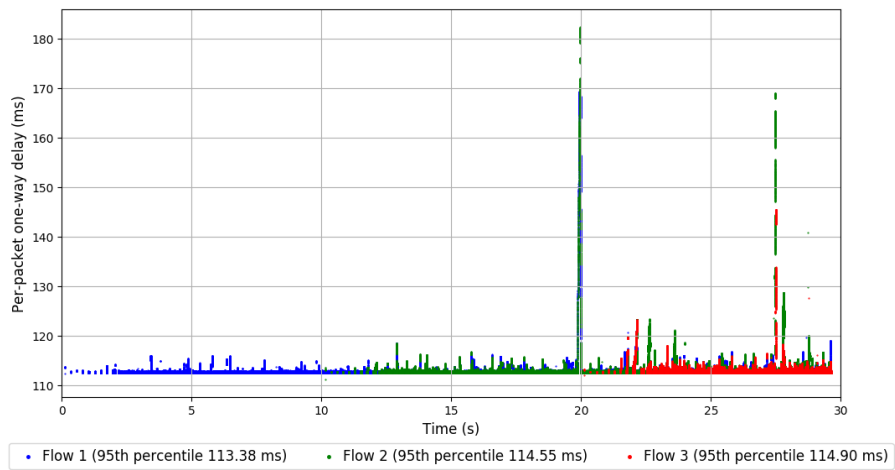
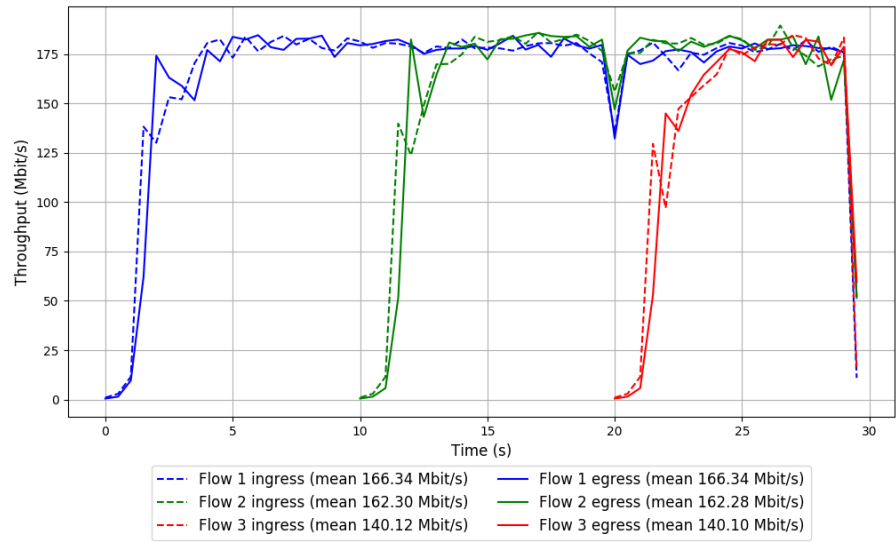


```
Run 1: Statistics of Indigo

Start at: 2017-09-22 03:06:05
End at: 2017-09-22 03:06:35

# Below is generated by plot.py at 2017-09-22 06:44:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.47 Mbit/s
95th percentile per-packet one-way delay: 113.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.34 Mbit/s
95th percentile per-packet one-way delay: 113.381 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 162.28 Mbit/s
95th percentile per-packet one-way delay: 114.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 140.10 Mbit/s
95th percentile per-packet one-way delay: 114.896 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-22 03:19:26

End at: 2017-09-22 03:19:56

Below is generated by plot.py at 2017-09-22 06:45:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.16 Mbit/s

95th percentile per-packet one-way delay: 113.402 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 169.79 Mbit/s

95th percentile per-packet one-way delay: 113.208 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 162.57 Mbit/s

95th percentile per-packet one-way delay: 113.584 ms

Loss rate: 0.00%

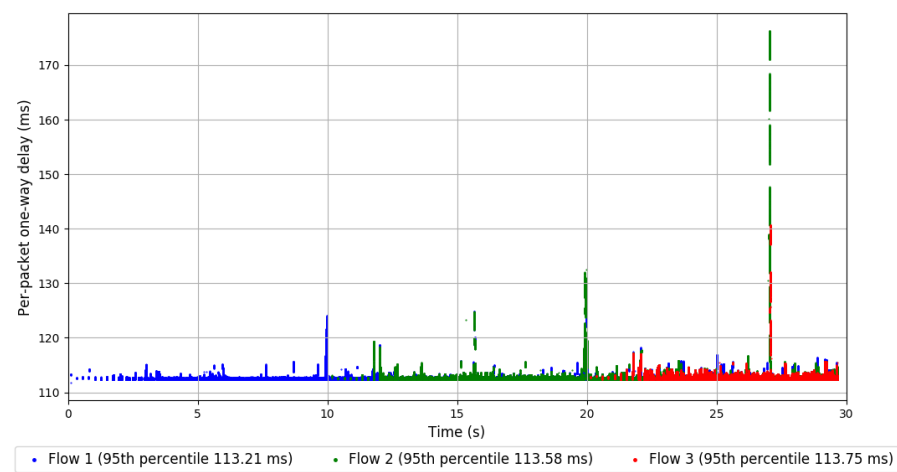
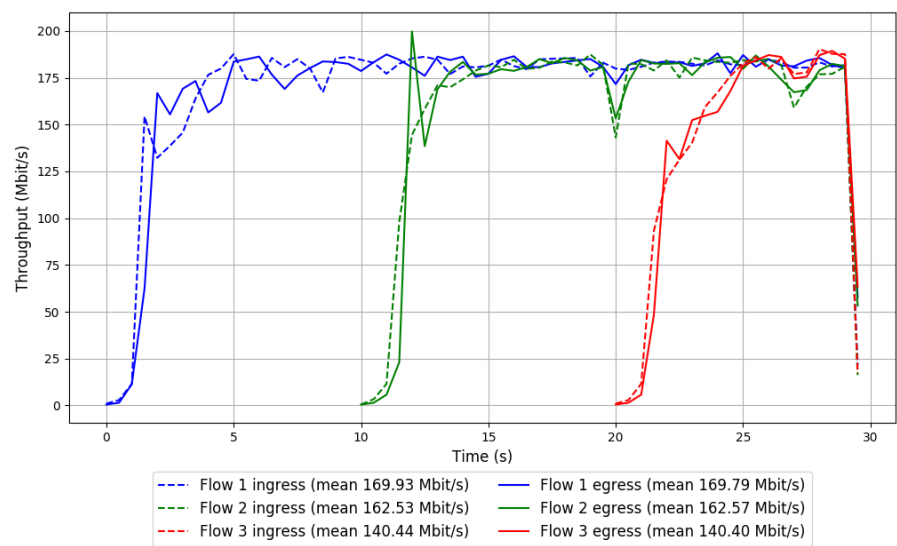
-- Flow 3:

Average throughput: 140.40 Mbit/s

95th percentile per-packet one-way delay: 113.750 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-22 03:33:08

End at: 2017-09-22 03:33:38

Below is generated by plot.py at 2017-09-22 06:45:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.14 Mbit/s

95th percentile per-packet one-way delay: 114.021 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.25 Mbit/s

95th percentile per-packet one-way delay: 113.665 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.23 Mbit/s

95th percentile per-packet one-way delay: 114.197 ms

Loss rate: 0.00%

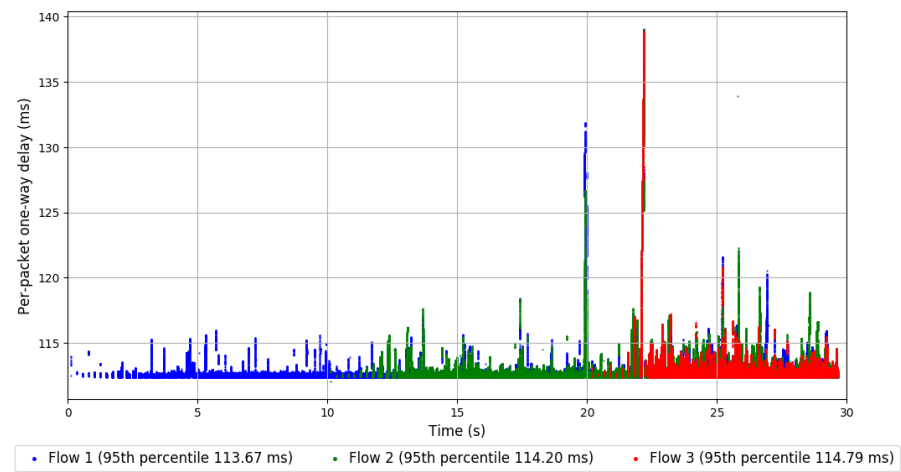
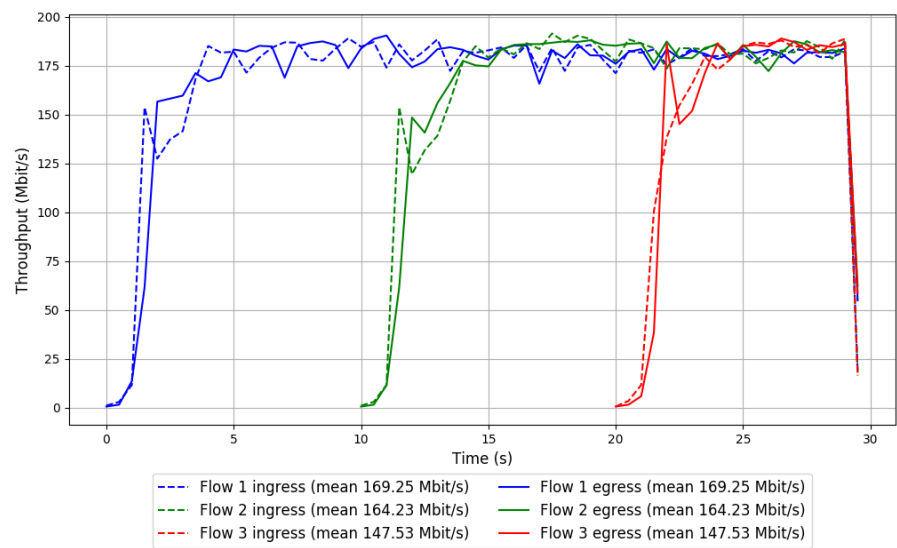
-- Flow 3:

Average throughput: 147.53 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-22 03:46:37

End at: 2017-09-22 03:47:07

Below is generated by plot.py at 2017-09-22 06:45:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.08 Mbit/s

95th percentile per-packet one-way delay: 113.136 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.34 Mbit/s

95th percentile per-packet one-way delay: 113.008 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.25 Mbit/s

95th percentile per-packet one-way delay: 113.255 ms

Loss rate: 0.00%

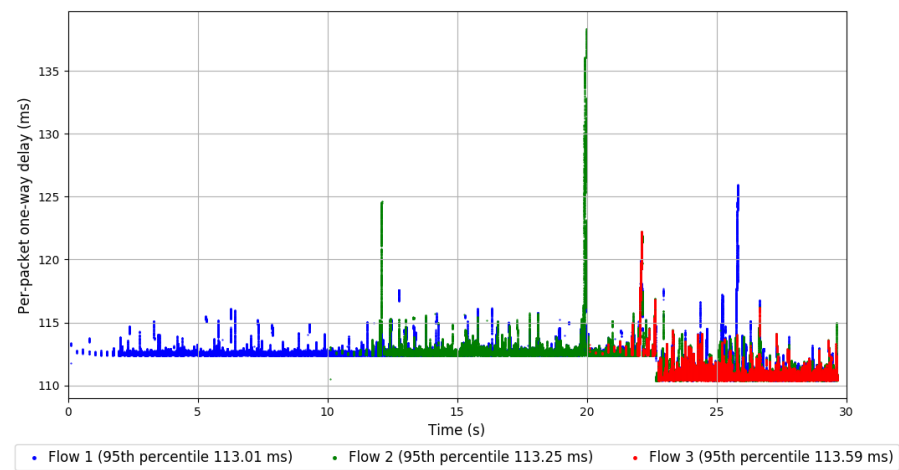
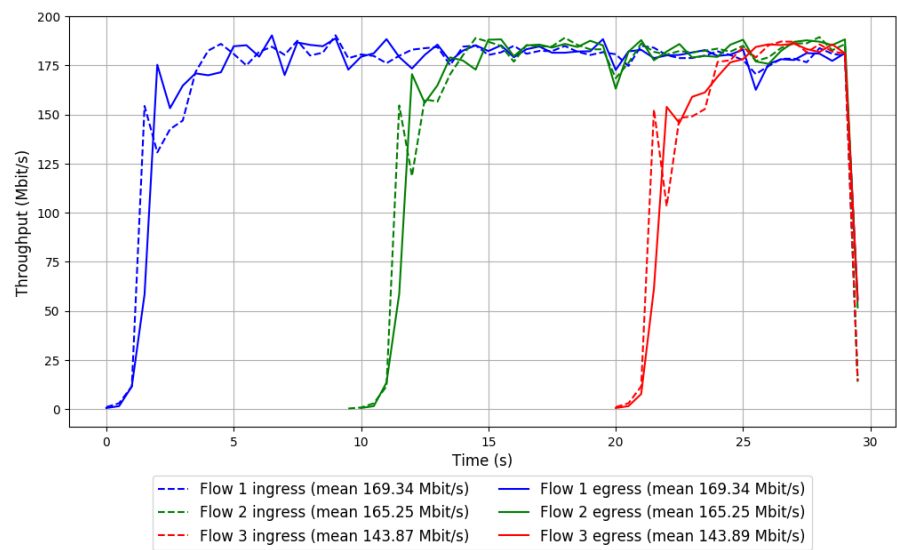
-- Flow 3:

Average throughput: 143.89 Mbit/s

95th percentile per-packet one-way delay: 113.588 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-22 03:59:57

End at: 2017-09-22 04:00:27

Below is generated by plot.py at 2017-09-22 06:46:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.15 Mbit/s

95th percentile per-packet one-way delay: 111.592 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.66 Mbit/s

95th percentile per-packet one-way delay: 111.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.65 Mbit/s

95th percentile per-packet one-way delay: 111.758 ms

Loss rate: 0.00%

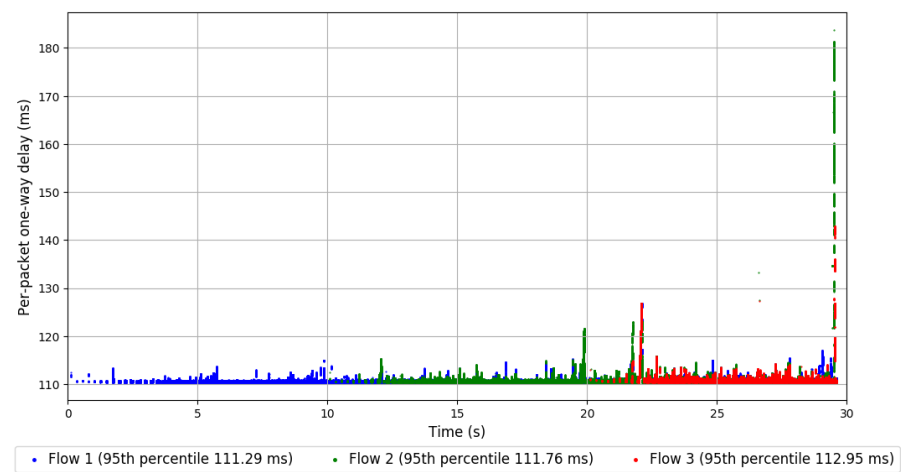
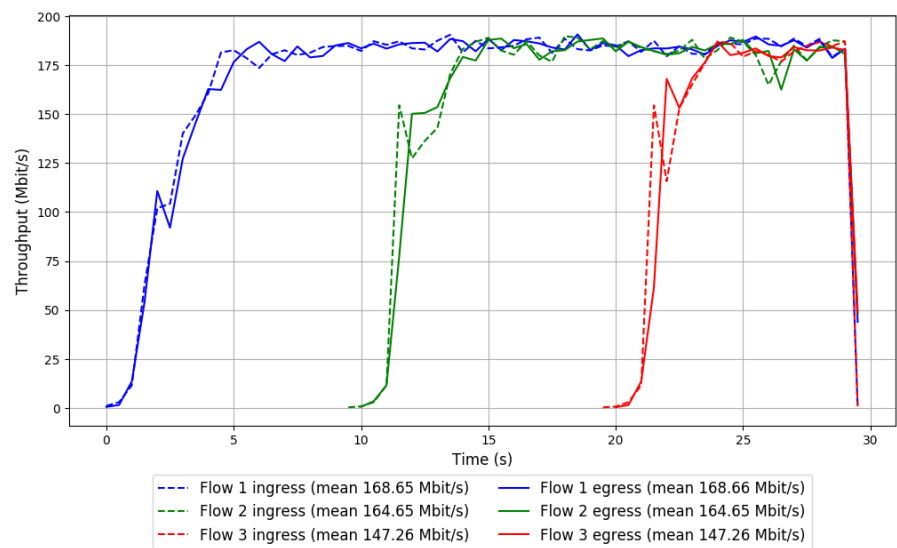
-- Flow 3:

Average throughput: 147.26 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-22 04:13:49

End at: 2017-09-22 04:14:19

Below is generated by plot.py at 2017-09-22 06:48:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.35 Mbit/s

95th percentile per-packet one-way delay: 111.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 111.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.65 Mbit/s

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

Loss rate: 0.00%

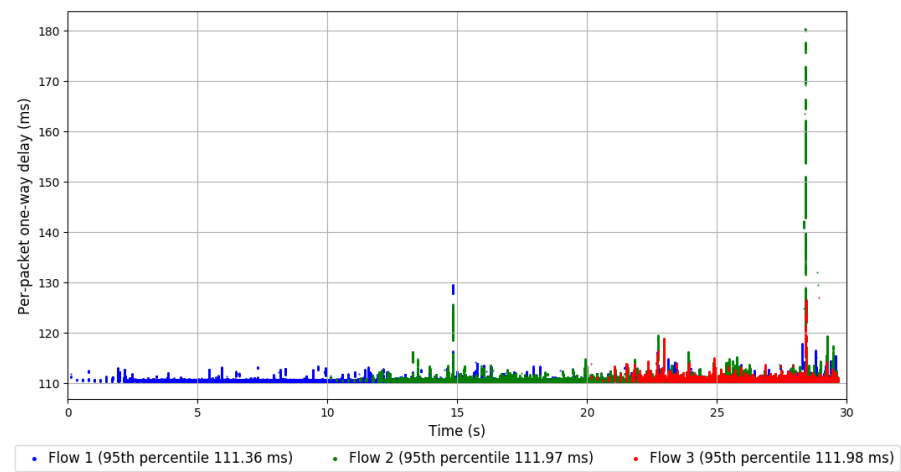
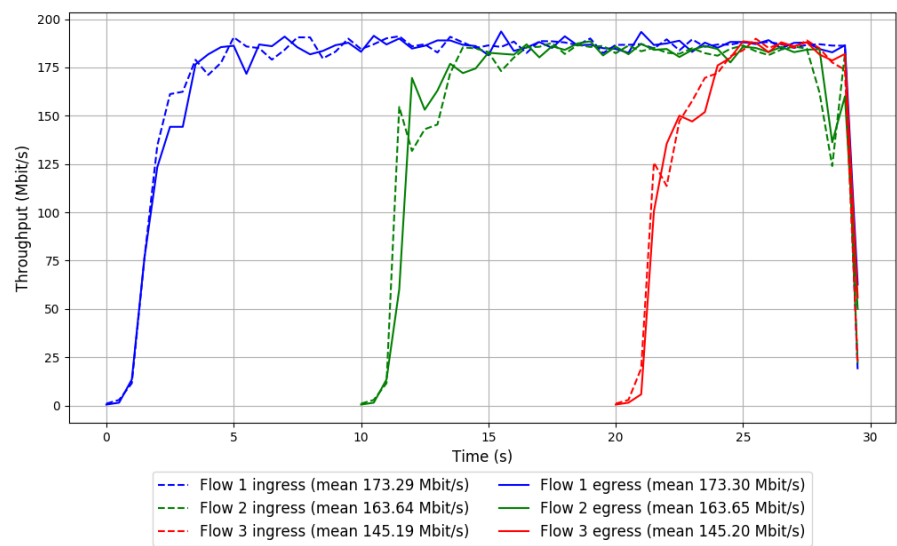
-- Flow 3:

Average throughput: 145.20 Mbit/s

95th percentile per-packet one-way delay: 111.985 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-22 04:27:46

End at: 2017-09-22 04:28:16

Below is generated by plot.py at 2017-09-22 06:48:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.97 Mbit/s

95th percentile per-packet one-way delay: 114.052 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 162.95 Mbit/s

95th percentile per-packet one-way delay: 113.562 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.93 Mbit/s

95th percentile per-packet one-way delay: 115.014 ms

Loss rate: 0.03%

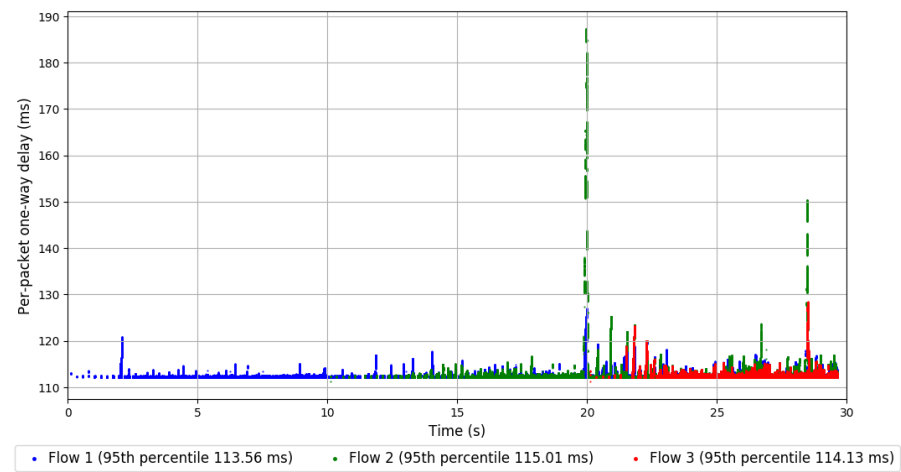
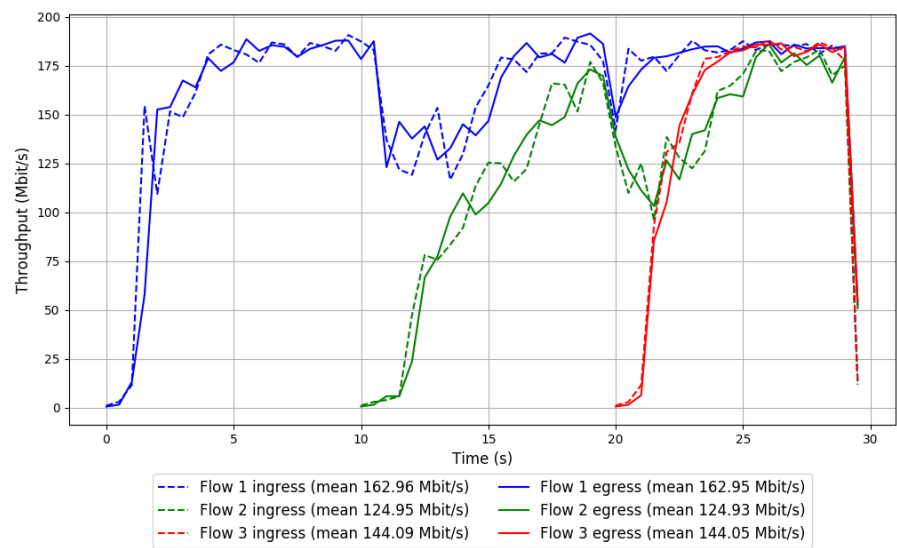
-- Flow 3:

Average throughput: 144.05 Mbit/s

95th percentile per-packet one-way delay: 114.127 ms

Loss rate: 0.03%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-22 04:41:30

End at: 2017-09-22 04:42:00

Below is generated by plot.py at 2017-09-22 06:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.46 Mbit/s

95th percentile per-packet one-way delay: 113.484 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.96 Mbit/s

95th percentile per-packet one-way delay: 113.312 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.97 Mbit/s

95th percentile per-packet one-way delay: 113.722 ms

Loss rate: 0.00%

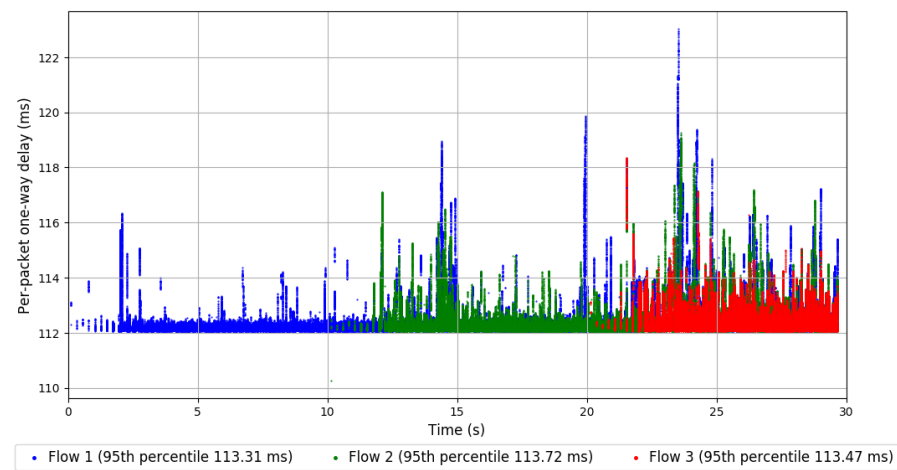
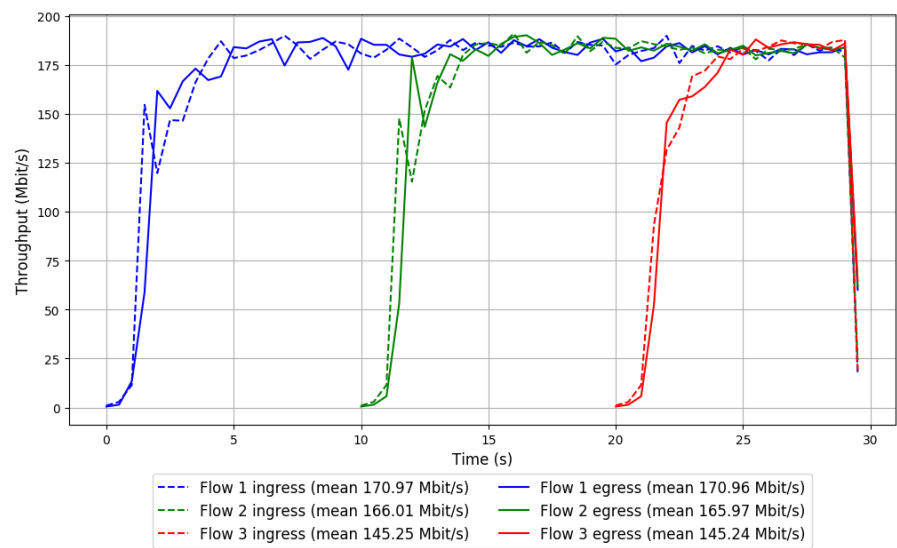
-- Flow 3:

Average throughput: 145.24 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-22 04:54:52

End at: 2017-09-22 04:55:22

Below is generated by plot.py at 2017-09-22 06:50:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.22 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 169.91 Mbit/s

95th percentile per-packet one-way delay: 112.984 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 165.49 Mbit/s

95th percentile per-packet one-way delay: 114.258 ms

Loss rate: 0.00%

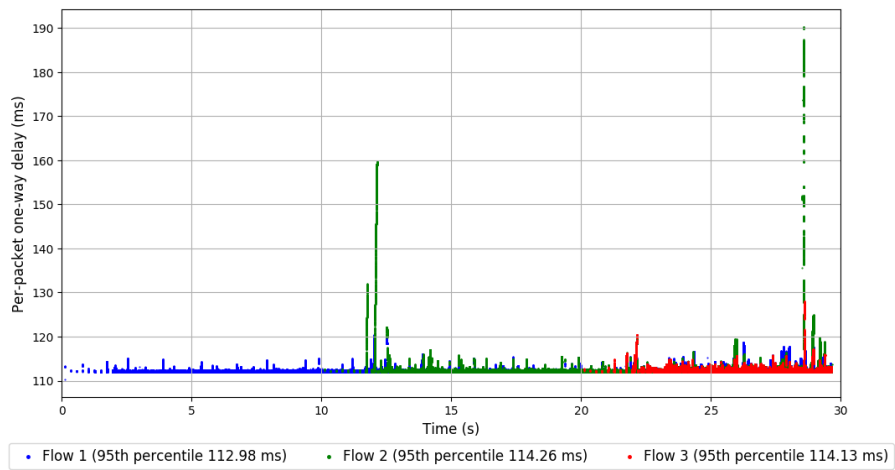
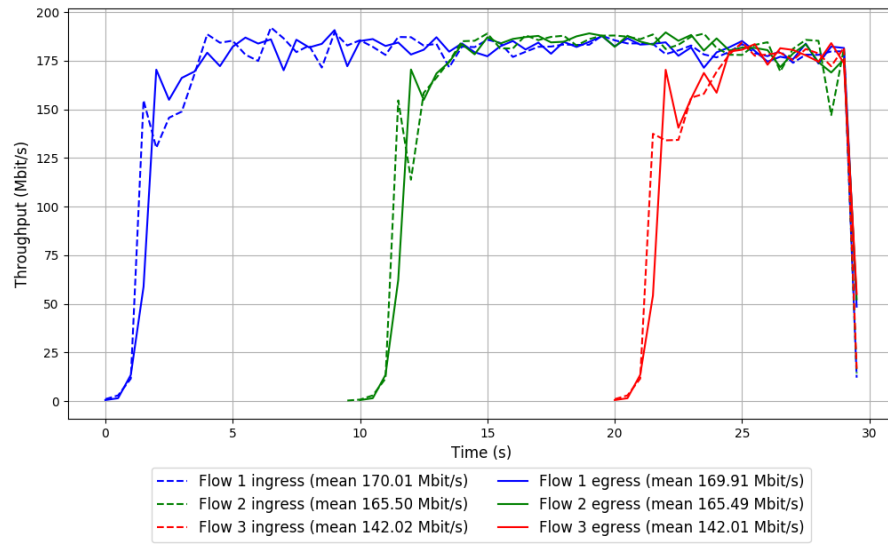
-- Flow 3:

Average throughput: 142.01 Mbit/s

95th percentile per-packet one-way delay: 114.131 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-22 05:07:59

End at: 2017-09-22 05:08:29

Below is generated by plot.py at 2017-09-22 06:50:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.02 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.95 Mbit/s

95th percentile per-packet one-way delay: 113.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.69 Mbit/s

95th percentile per-packet one-way delay: 113.689 ms

Loss rate: 0.00%

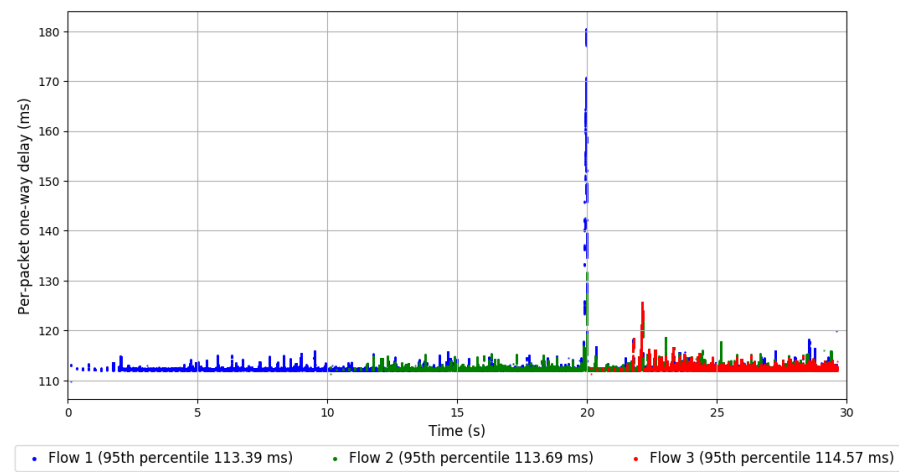
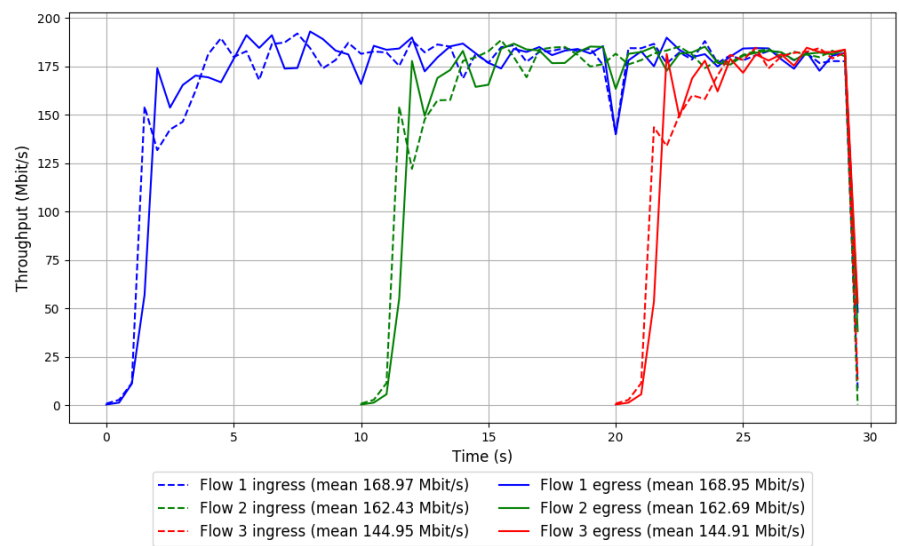
-- Flow 3:

Average throughput: 144.91 Mbit/s

95th percentile per-packet one-way delay: 114.573 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

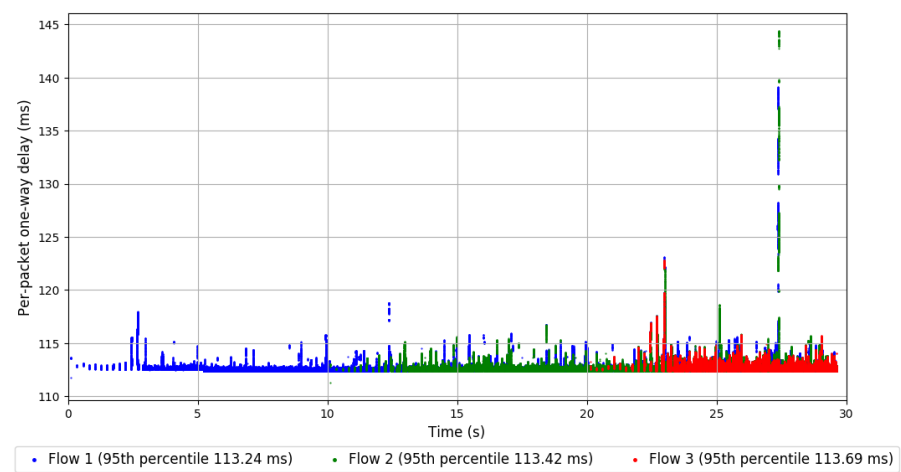
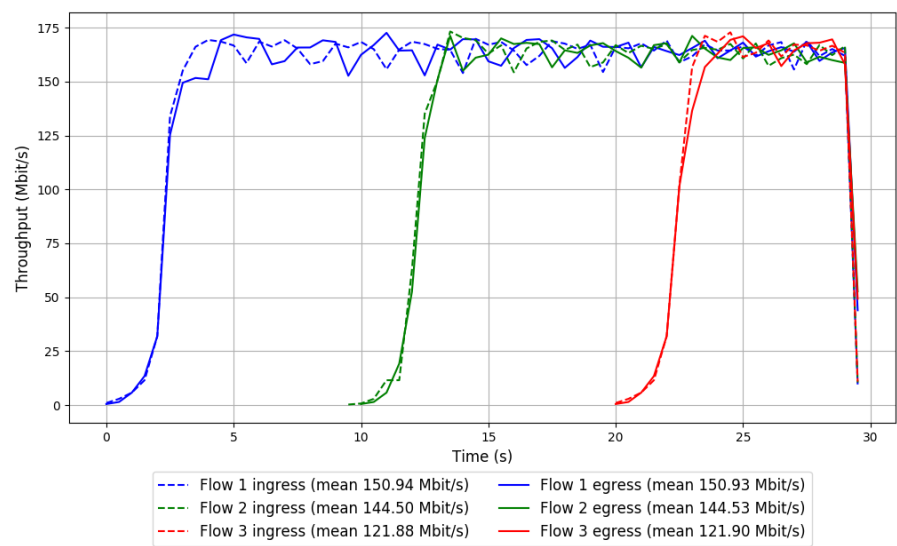


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-22 03:16:56
End at: 2017-09-22 03:17:26

# Below is generated by plot.py at 2017-09-22 06:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.78 Mbit/s
95th percentile per-packet one-way delay: 113.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.93 Mbit/s
95th percentile per-packet one-way delay: 113.239 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 144.53 Mbit/s
95th percentile per-packet one-way delay: 113.420 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 121.90 Mbit/s
95th percentile per-packet one-way delay: 113.693 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo-calib — Data Link

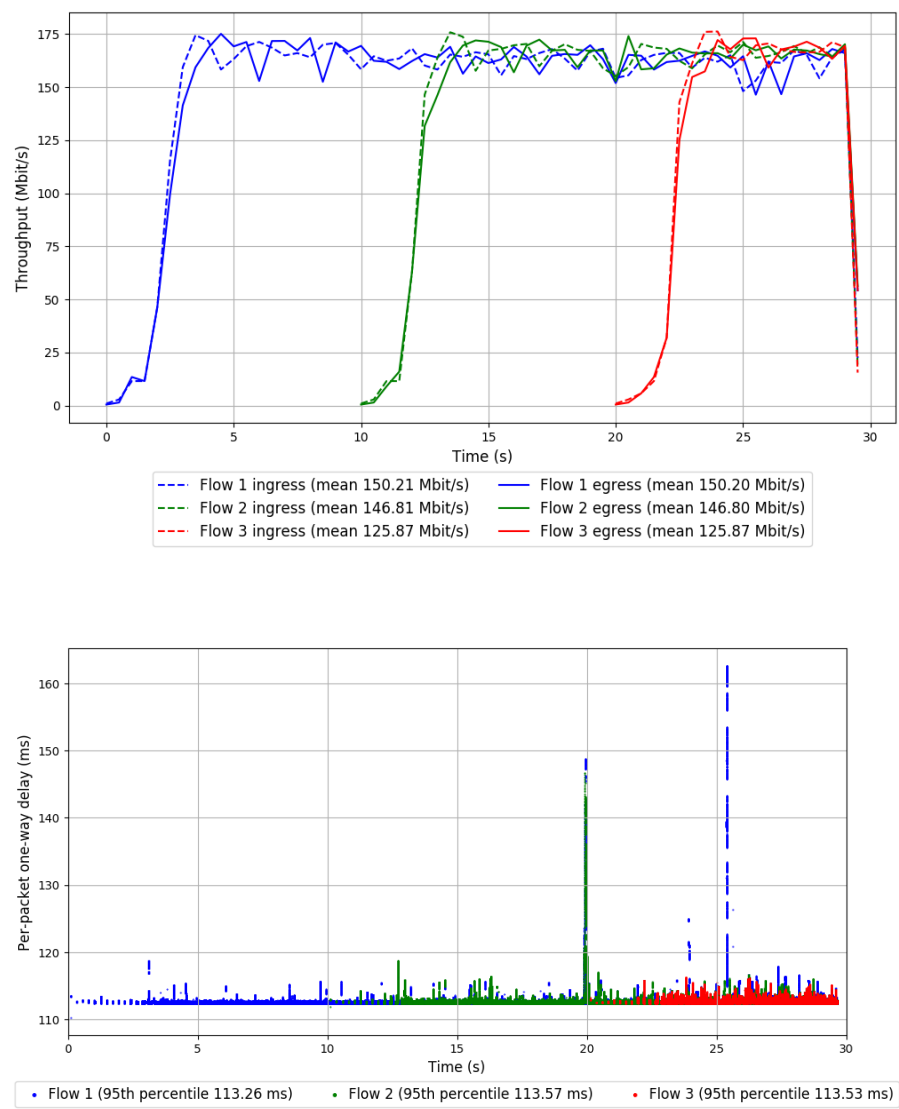


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-22 03:30:39
End at: 2017-09-22 03:31:09

# Below is generated by plot.py at 2017-09-22 06:50:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.83 Mbit/s
95th percentile per-packet one-way delay: 113.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.20 Mbit/s
95th percentile per-packet one-way delay: 113.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.80 Mbit/s
95th percentile per-packet one-way delay: 113.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.87 Mbit/s
95th percentile per-packet one-way delay: 113.527 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-22 03:44:06

End at: 2017-09-22 03:44:36

Below is generated by plot.py at 2017-09-22 06:50:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.19 Mbit/s

95th percentile per-packet one-way delay: 113.327 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 113.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.51 Mbit/s

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

Loss rate: 0.00%

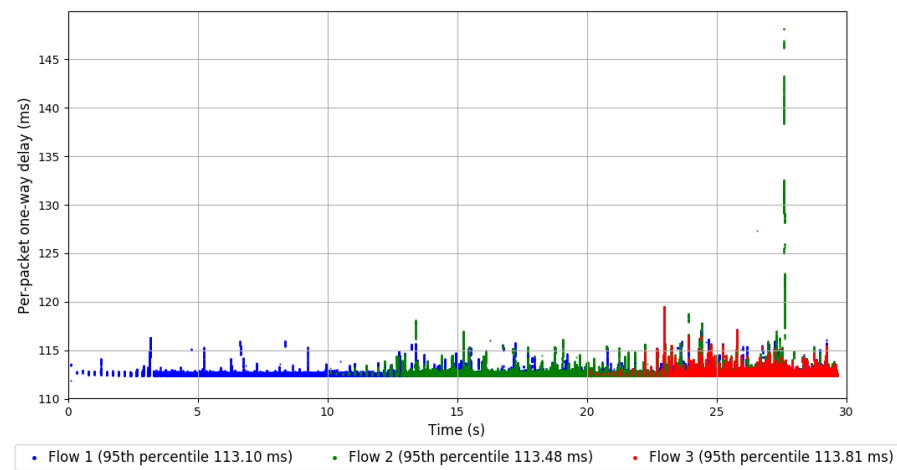
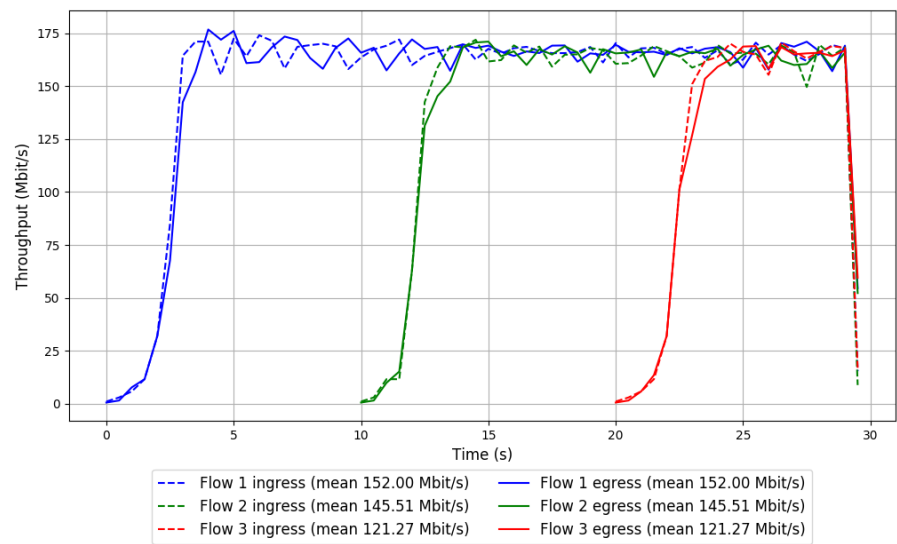
-- Flow 3:

Average throughput: 121.27 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link

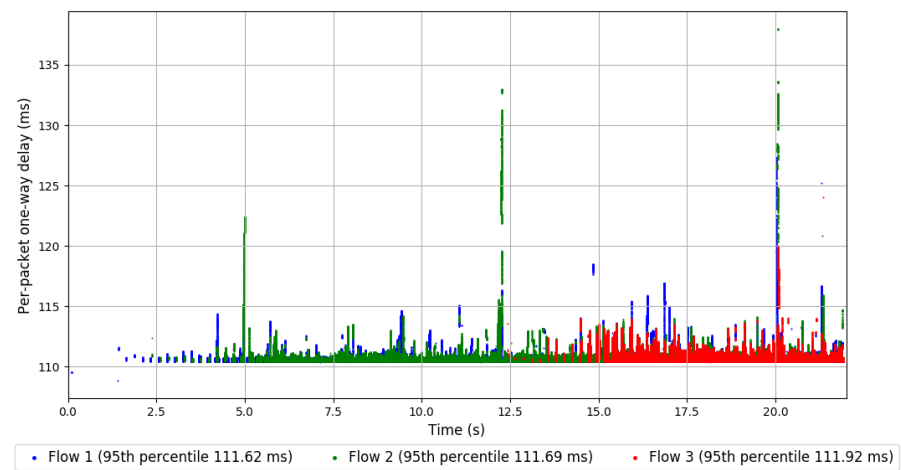
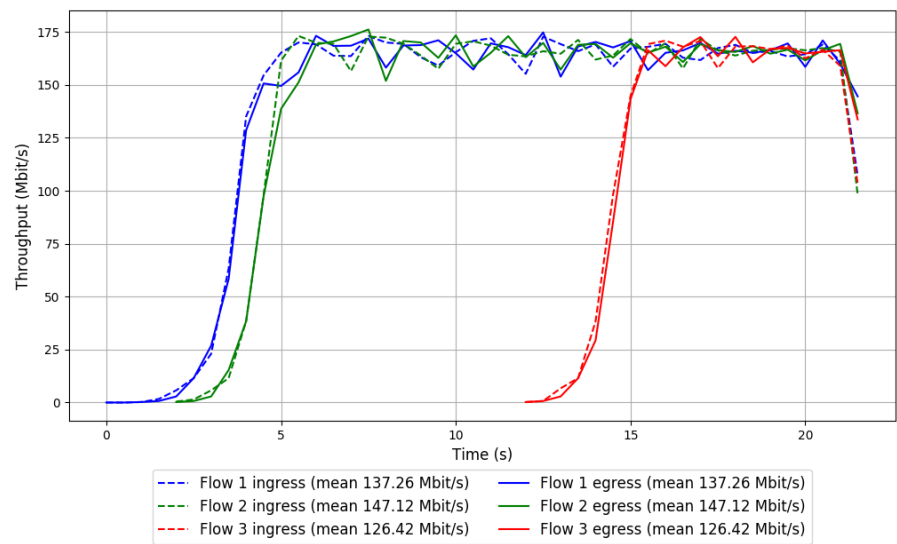


Run 4: Statistics of Indigo-calib

Start at: 2017-09-22 03:57:30

End at: 2017-09-22 03:58:00

Run 4: Report of Indigo-calib — Data Link

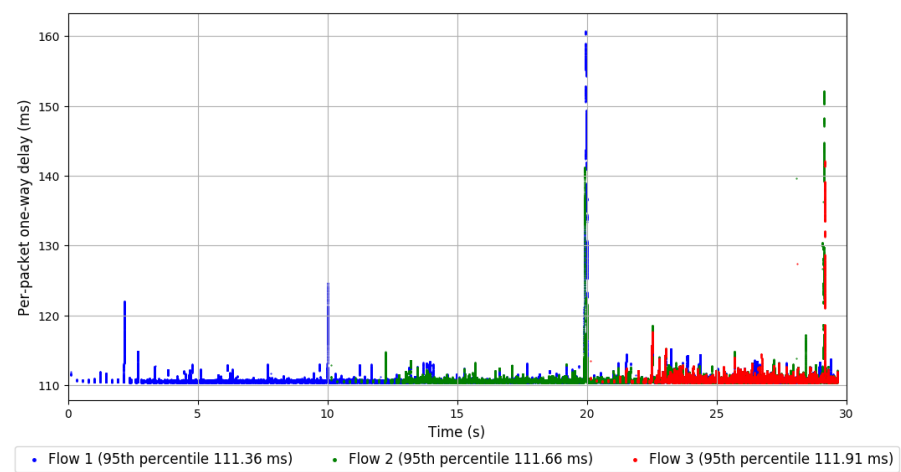
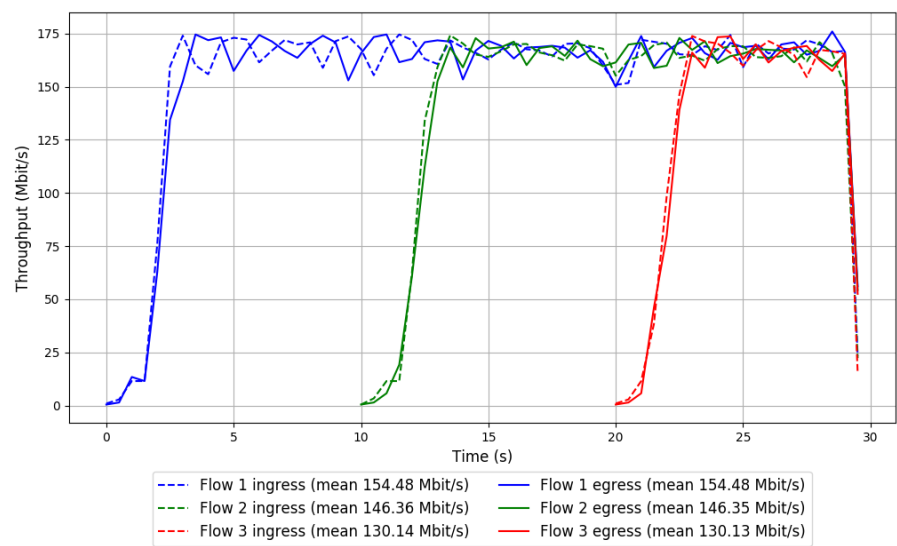


```
Run 5: Statistics of Indigo-calib

Start at: 2017-09-22 04:11:20
End at: 2017-09-22 04:11:50

# Below is generated by plot.py at 2017-09-22 06:52:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.05 Mbit/s
95th percentile per-packet one-way delay: 111.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.48 Mbit/s
95th percentile per-packet one-way delay: 111.362 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.35 Mbit/s
95th percentile per-packet one-way delay: 111.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.13 Mbit/s
95th percentile per-packet one-way delay: 111.908 ms
Loss rate: 0.00%
```


Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-22 04:25:15

End at: 2017-09-22 04:25:45

Below is generated by plot.py at 2017-09-22 06:53:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.06 Mbit/s

95th percentile per-packet one-way delay: 113.139 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.36 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.89 Mbit/s

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

Loss rate: 0.00%

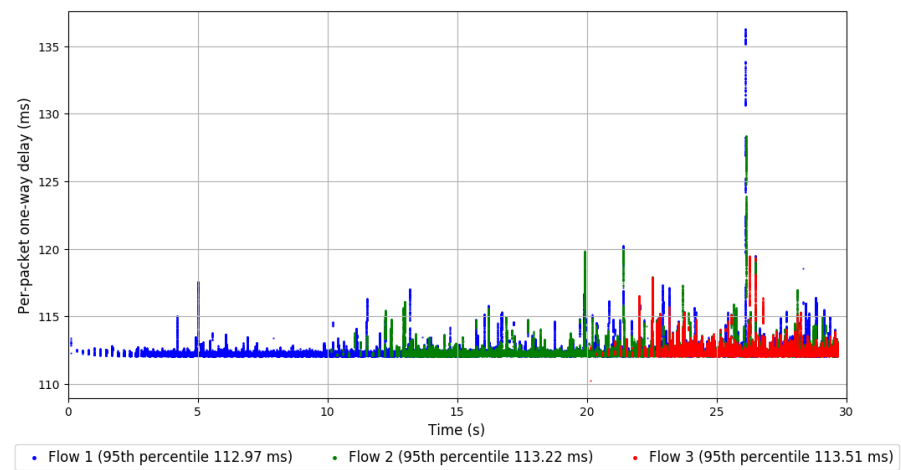
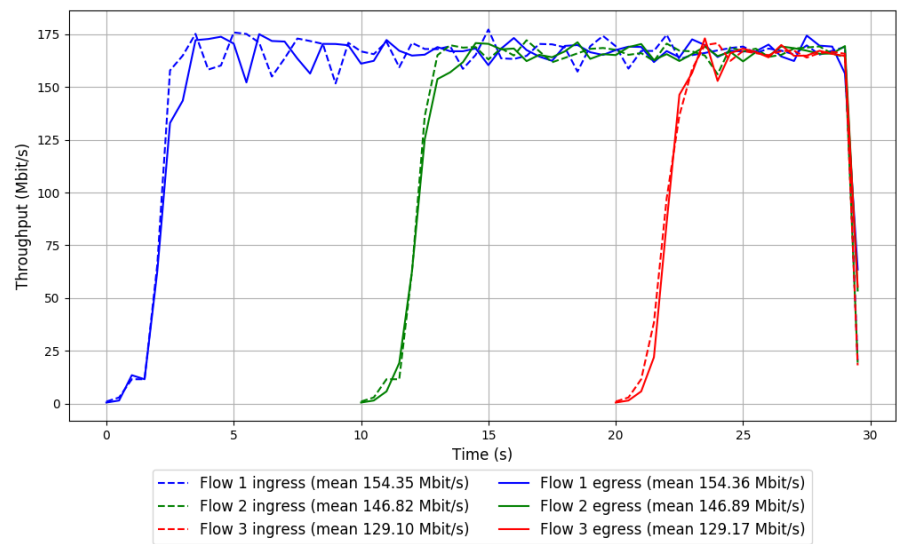
-- Flow 3:

Average throughput: 129.17 Mbit/s

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

Loss rate: 0.02%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

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

End at: 2017-09-22 04:39:32

Below is generated by plot.py at 2017-09-22 06:53:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.35 Mbit/s

95th percentile per-packet one-way delay: 113.360 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.28 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.24 Mbit/s

95th percentile per-packet one-way delay: 113.497 ms

Loss rate: 0.00%

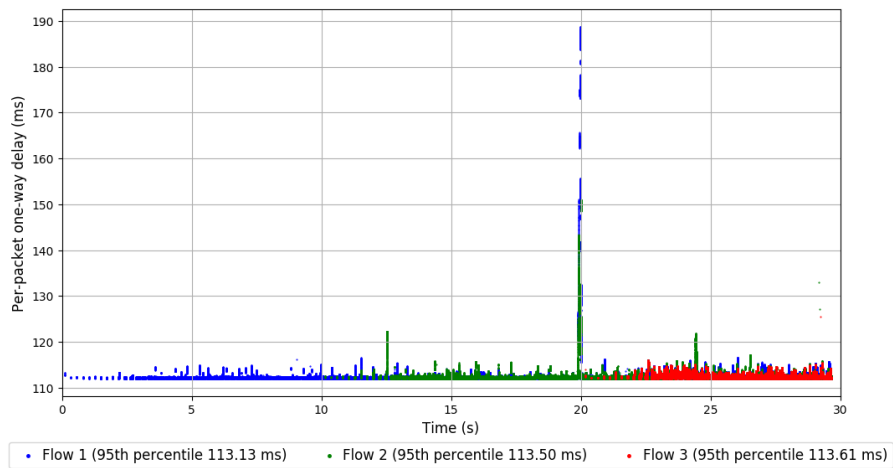
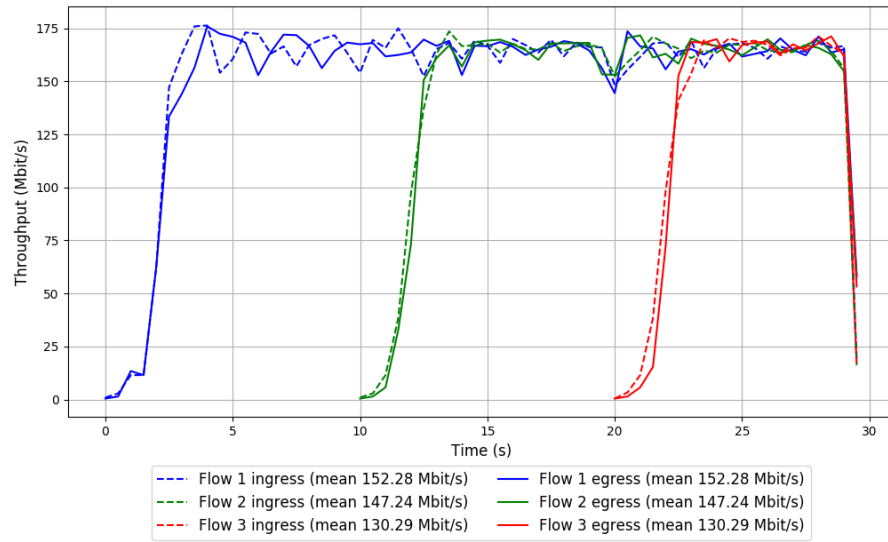
-- Flow 3:

Average throughput: 130.29 Mbit/s

95th percentile per-packet one-way delay: 113.608 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

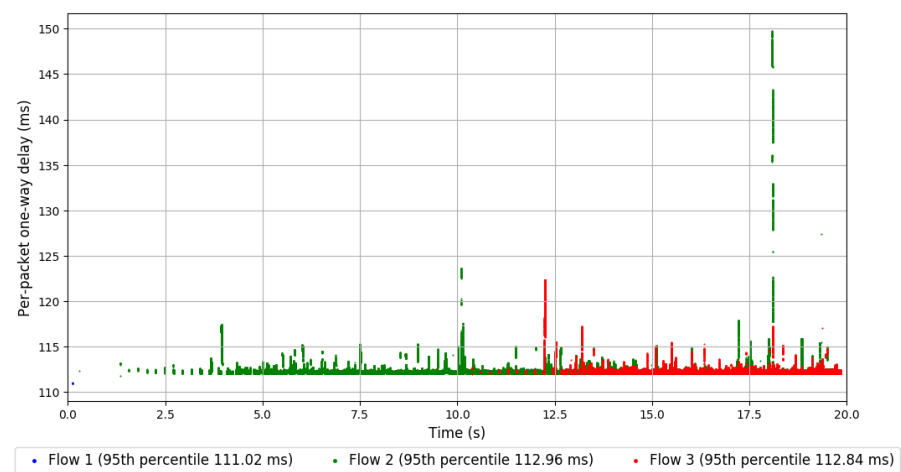
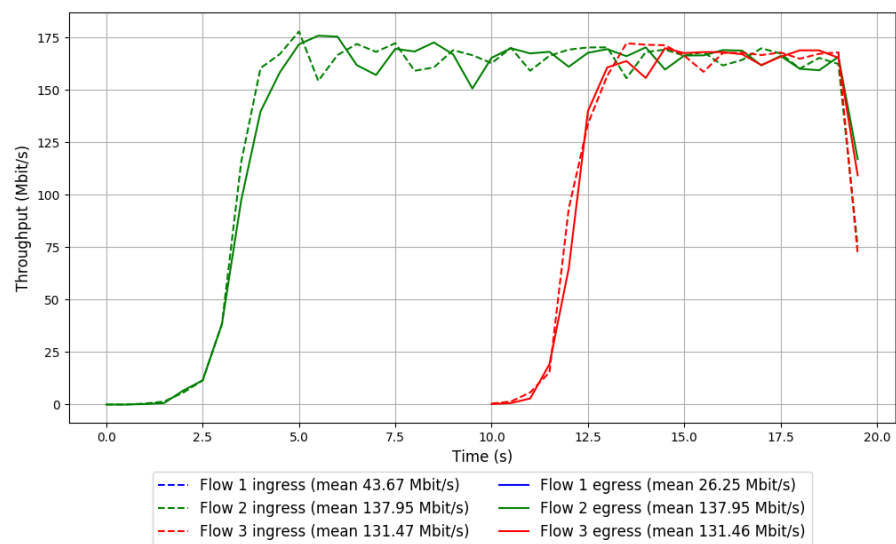


Run 8: Statistics of Indigo-calib

Start at: 2017-09-22 04:52:34

End at: 2017-09-22 04:53:04

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-22 05:05:55

End at: 2017-09-22 05:06:25

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.51 Mbit/s

95th percentile per-packet one-way delay: 113.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.09 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.67 Mbit/s

95th percentile per-packet one-way delay: 113.394 ms

Loss rate: 0.00%

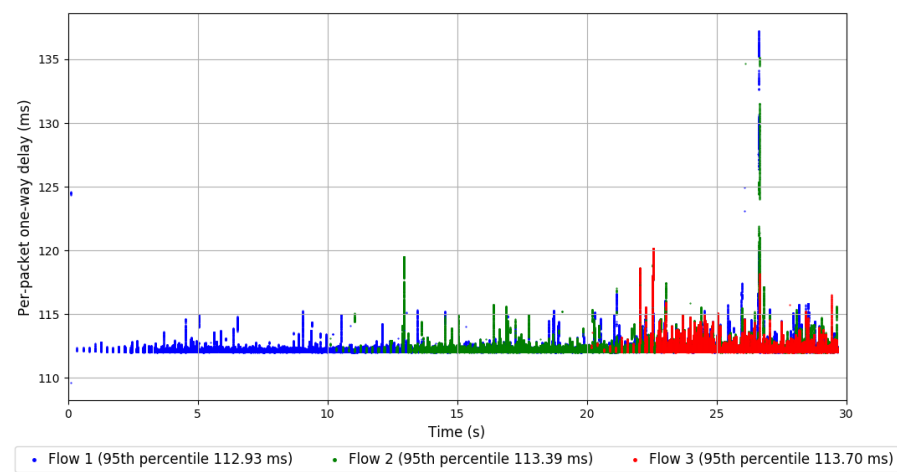
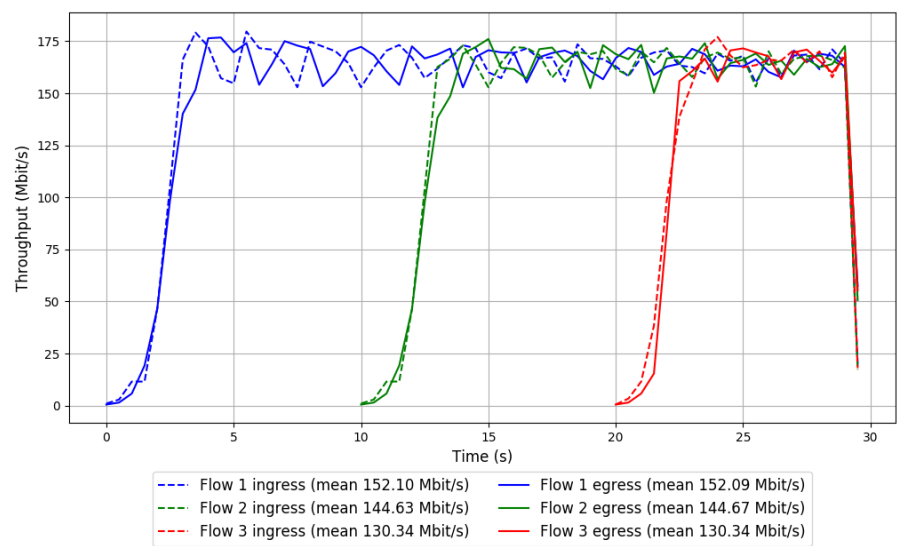
-- Flow 3:

Average throughput: 130.34 Mbit/s

95th percentile per-packet one-way delay: 113.703 ms

Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link

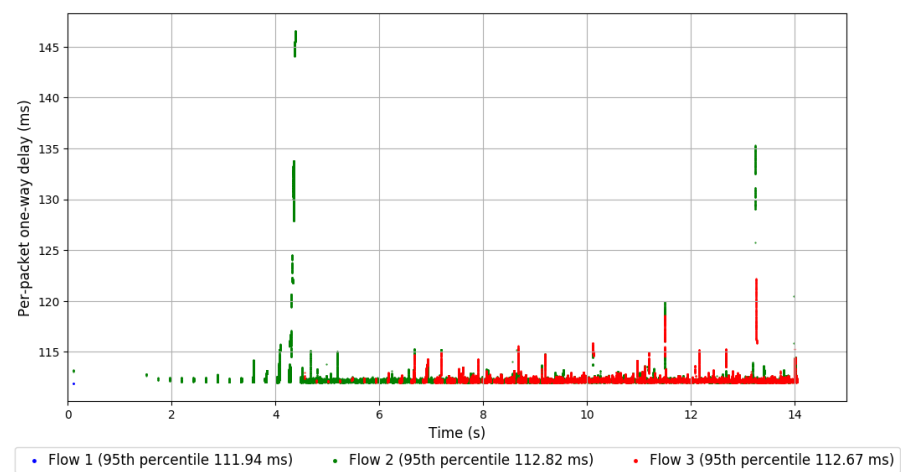
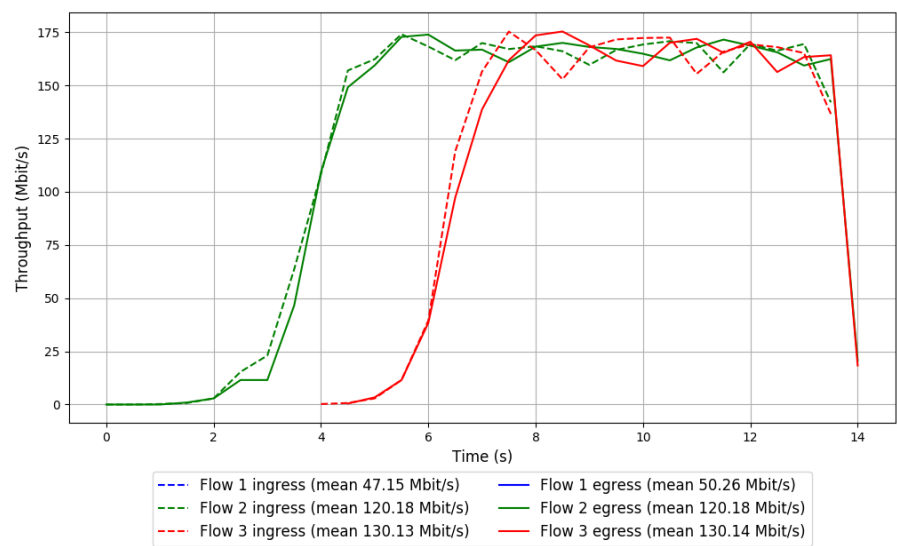


Run 10: Statistics of Indigo-calib

Start at: 2017-09-22 05:18:41

End at: 2017-09-22 05:19:11

Run 10: Report of Indigo-calib — Data Link

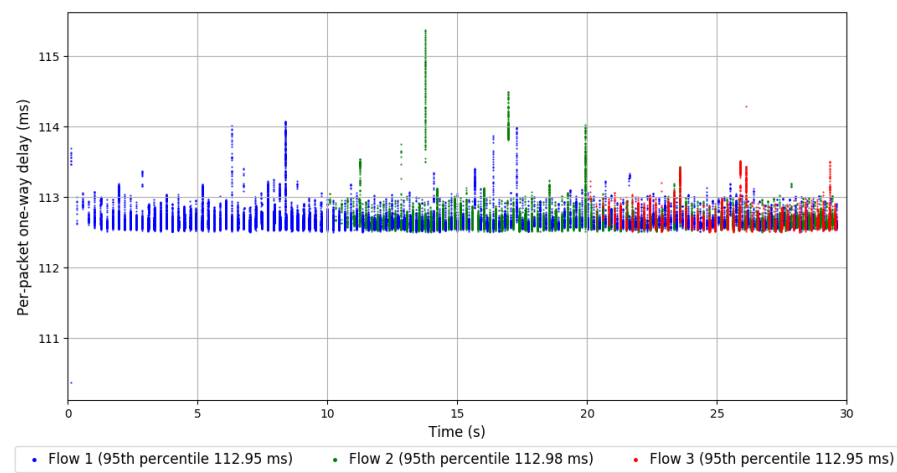
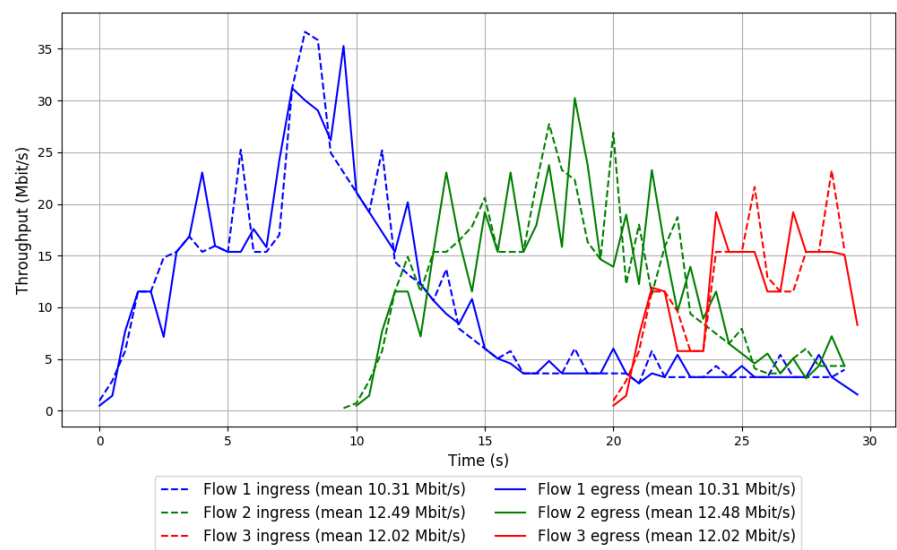


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-22 03:16:07
End at: 2017-09-22 03:16:37

# Below is generated by plot.py at 2017-09-22 06:53:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 112.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 112.955 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 112.977 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 112.953 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-delay — Data Link

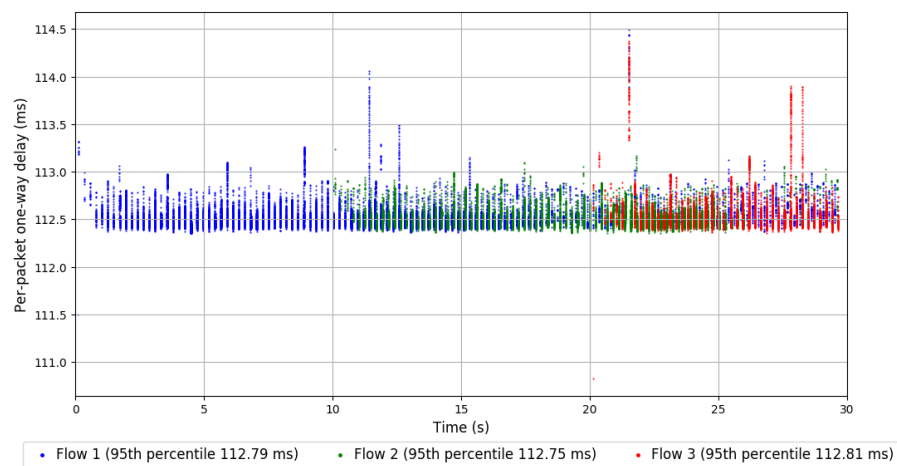
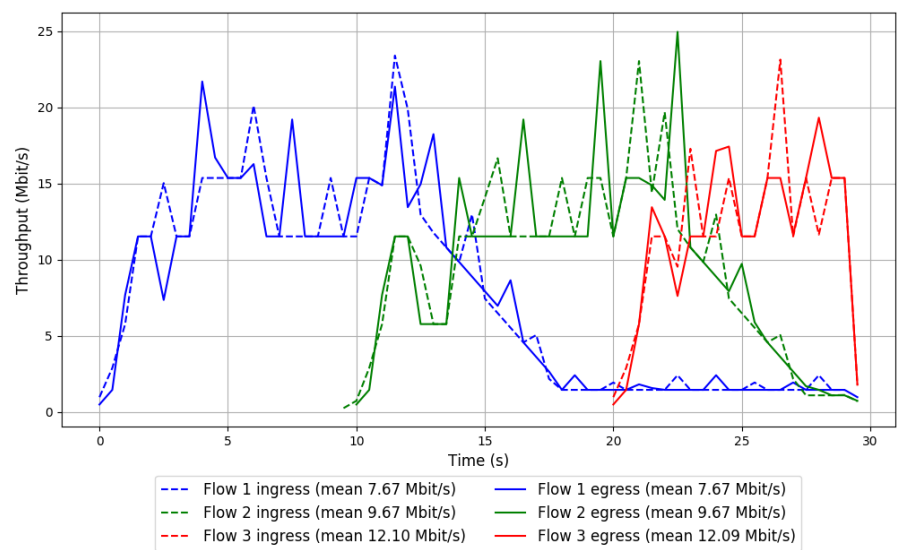


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-22 03:29:50
End at: 2017-09-22 03:30:20

# Below is generated by plot.py at 2017-09-22 06:53:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.92 Mbit/s
95th percentile per-packet one-way delay: 112.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 112.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 112.755 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 112.813 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-delay — Data Link



Run 3: Statistics of Indigo-delay

Start at: 2017-09-22 03:43:18

End at: 2017-09-22 03:43:48

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.12 Mbit/s

95th percentile per-packet one-way delay: 112.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 112.887 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.90 Mbit/s

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

Loss rate: 0.00%

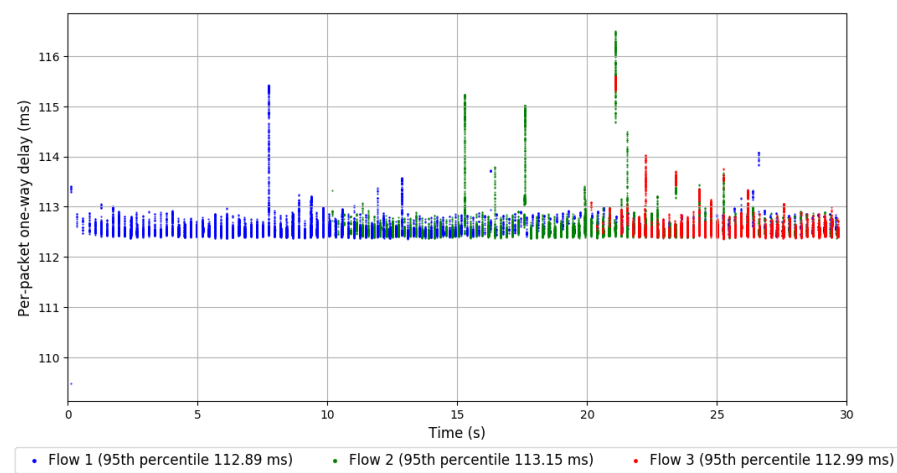
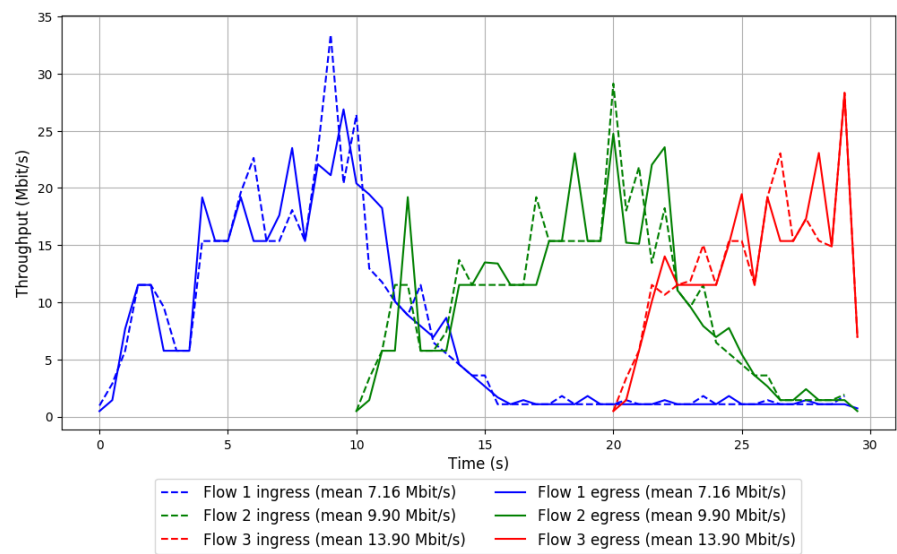
-- Flow 3:

Average throughput: 13.90 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-22 03:56:42

End at: 2017-09-22 03:57:12

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.91 Mbit/s

95th percentile per-packet one-way delay: 110.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 111.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 110.862 ms

Loss rate: 0.00%

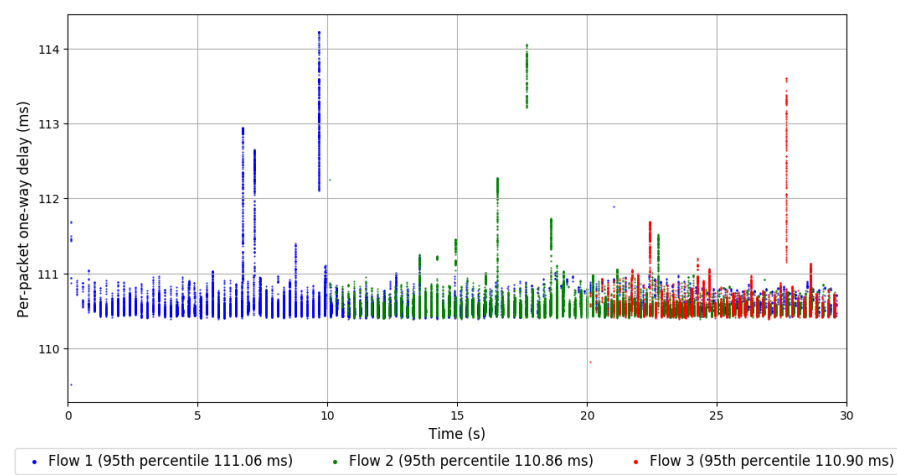
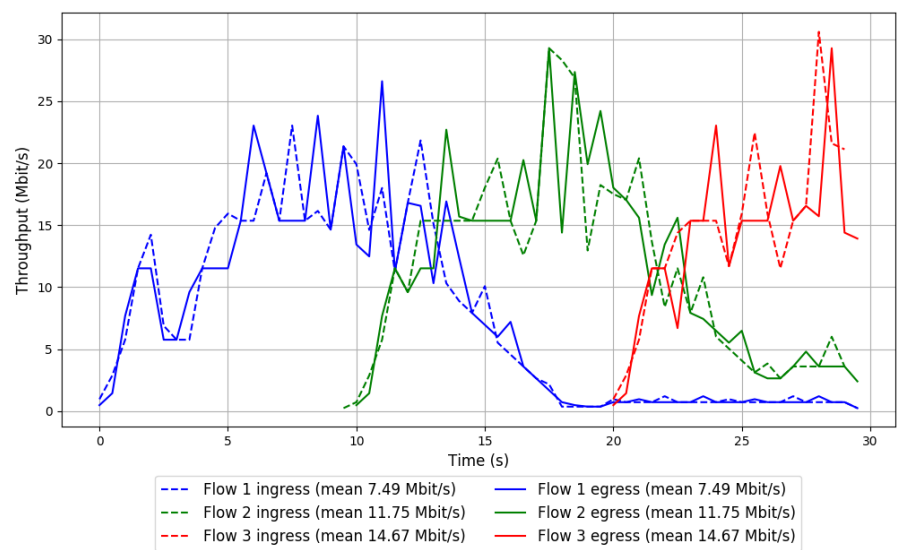
-- Flow 3:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 110.904 ms

Loss rate: 0.00%

Run 4: Report of Indigo-delay — Data Link

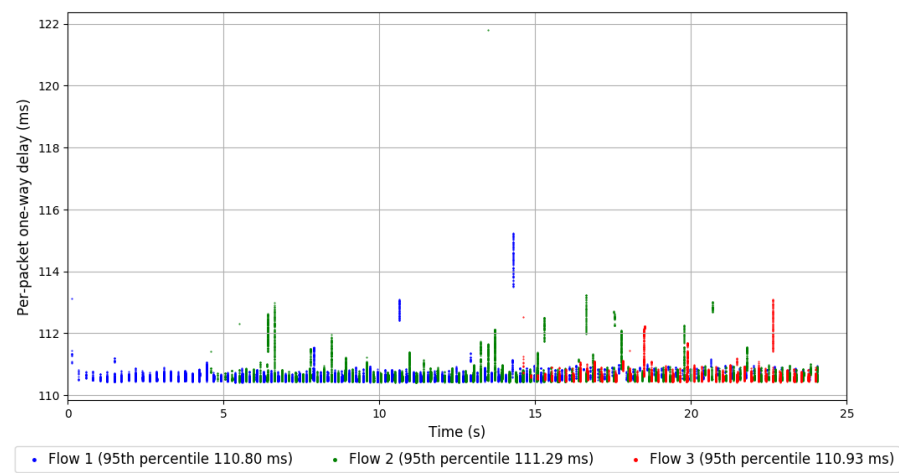
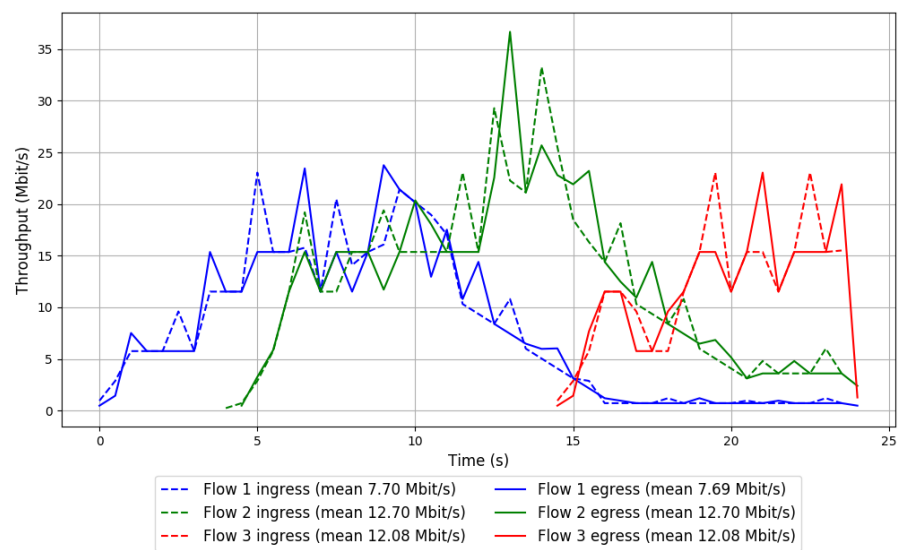


Run 5: Statistics of Indigo-delay

Start at: 2017-09-22 04:10:31

End at: 2017-09-22 04:11:01

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-22 04:24:27

End at: 2017-09-22 04:24:57

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.14 Mbit/s

95th percentile per-packet one-way delay: 112.953 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.18 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 112.593 ms

Loss rate: 0.00%

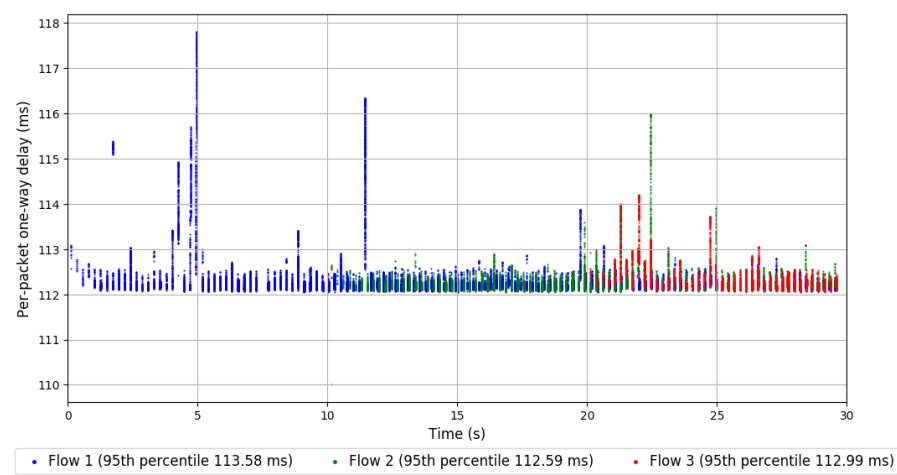
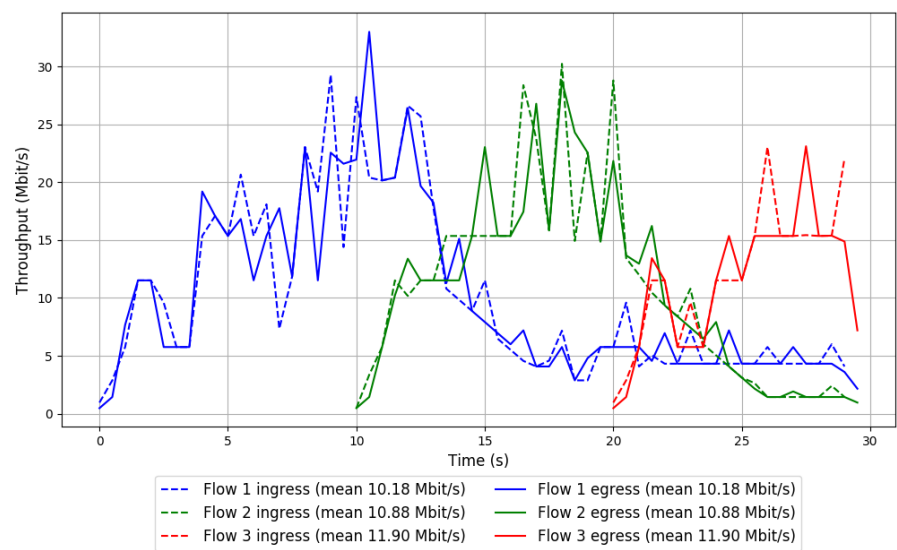
-- Flow 3:

Average throughput: 11.90 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-22 04:38:14

End at: 2017-09-22 04:38:44

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 112.542 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.26 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.71 Mbit/s

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

Loss rate: 0.00%

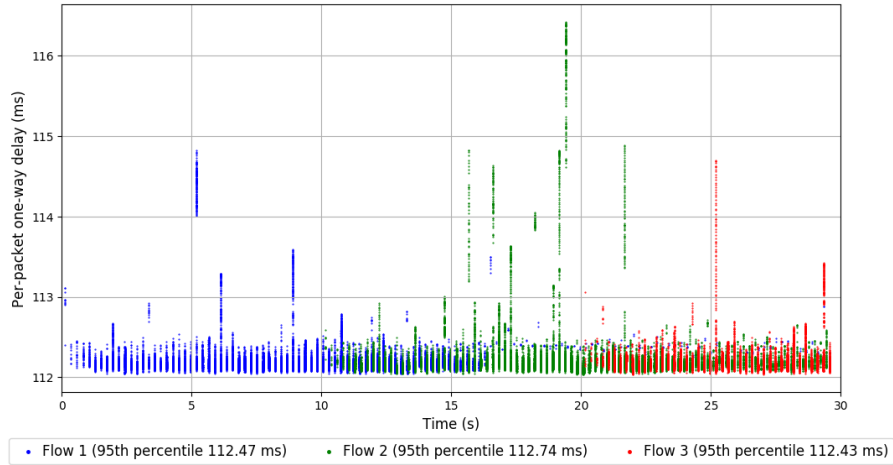
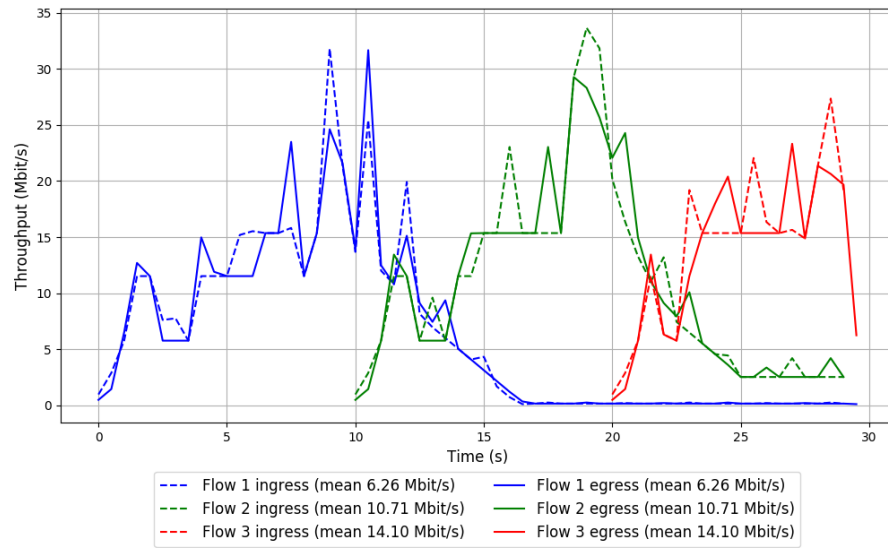
-- Flow 3:

Average throughput: 14.10 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-22 04:51:45

End at: 2017-09-22 04:52:15

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 112.467 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.89 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 112.474 ms

Loss rate: 0.00%

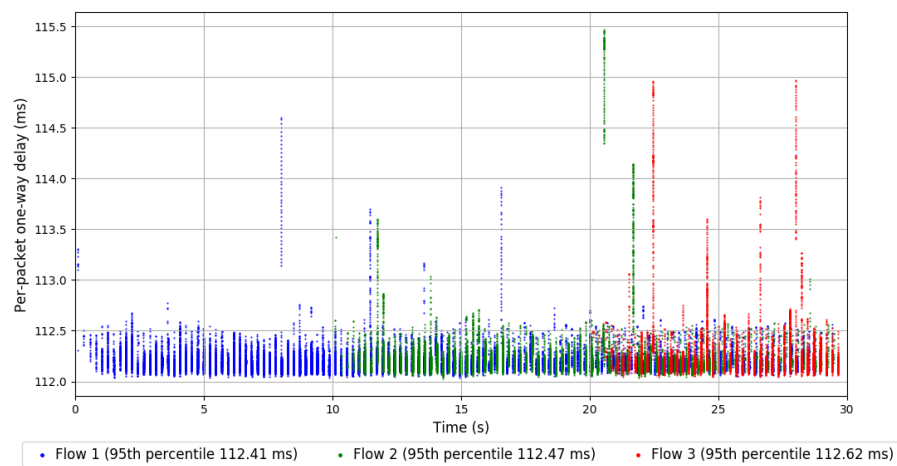
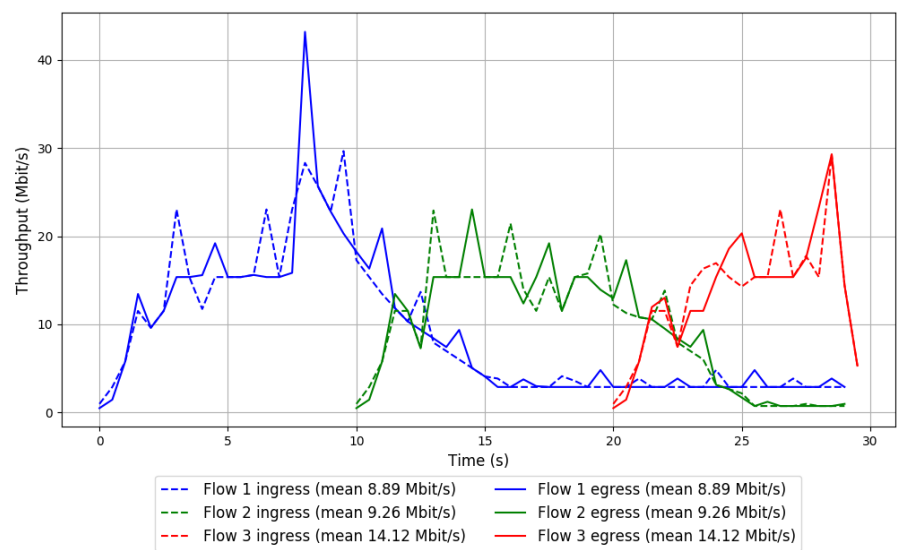
-- Flow 3:

Average throughput: 14.12 Mbit/s

95th percentile per-packet one-way delay: 112.617 ms

Loss rate: 0.00%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-22 05:05:06

End at: 2017-09-22 05:05:36

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.96 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 112.687 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.75 Mbit/s

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

Loss rate: 0.00%

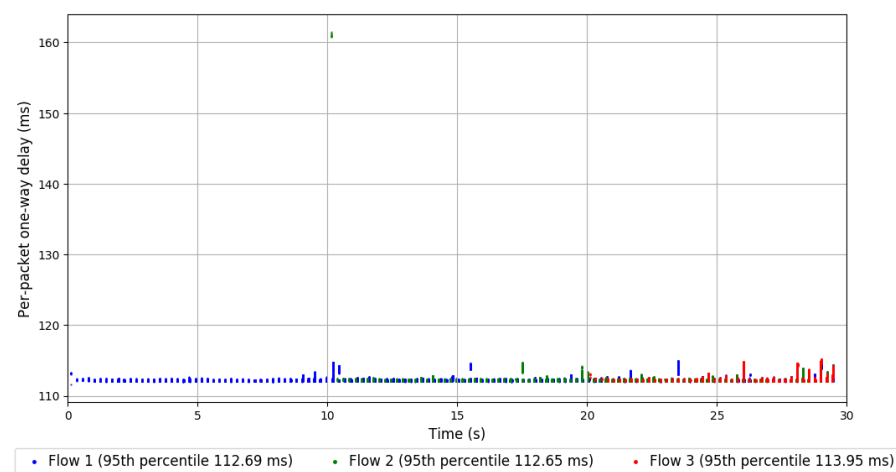
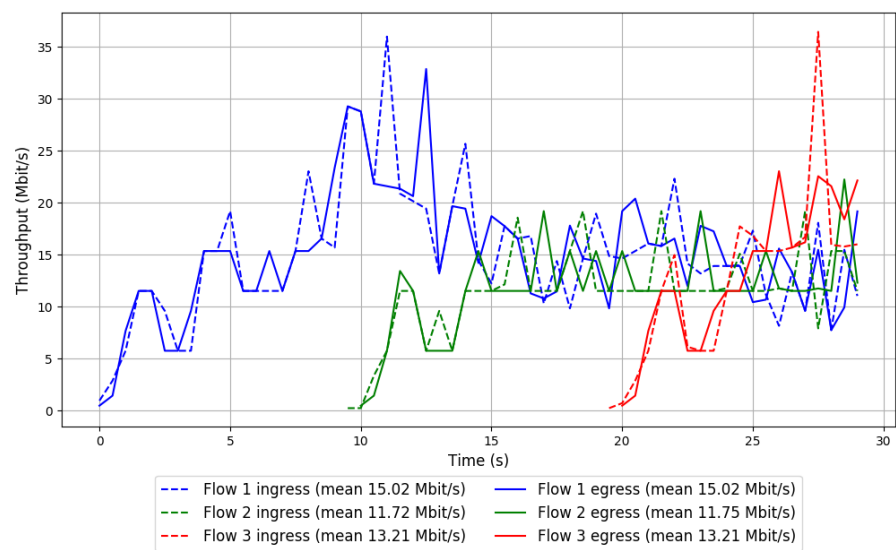
-- Flow 3:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 113.952 ms

Loss rate: 0.00%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-22 05:17:53

End at: 2017-09-22 05:18:23

Below is generated by plot.py at 2017-09-22 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.28 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 112.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.80 Mbit/s

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

Loss rate: 0.00%

-- Flow 3:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 112.340 ms

Loss rate: 0.00%

Run 10: Report of Indigo-delay — Data Link

