

## Pantheon Report

Generated at 2017-10-12 09:46:00 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Sydney 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.

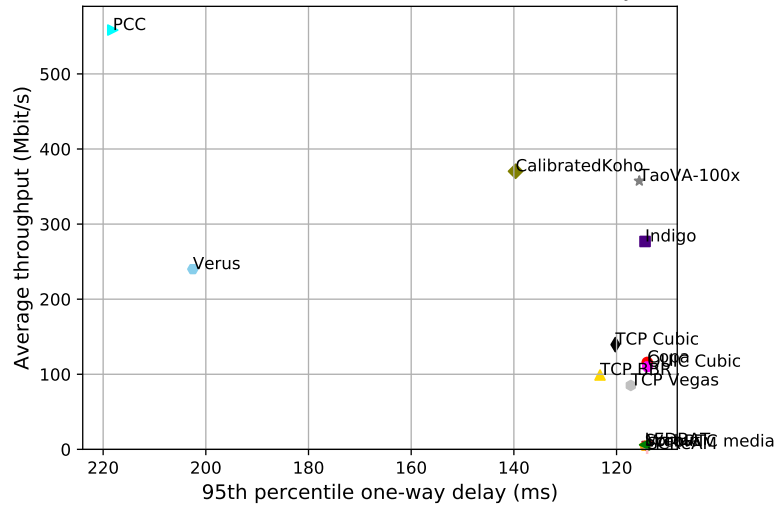
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

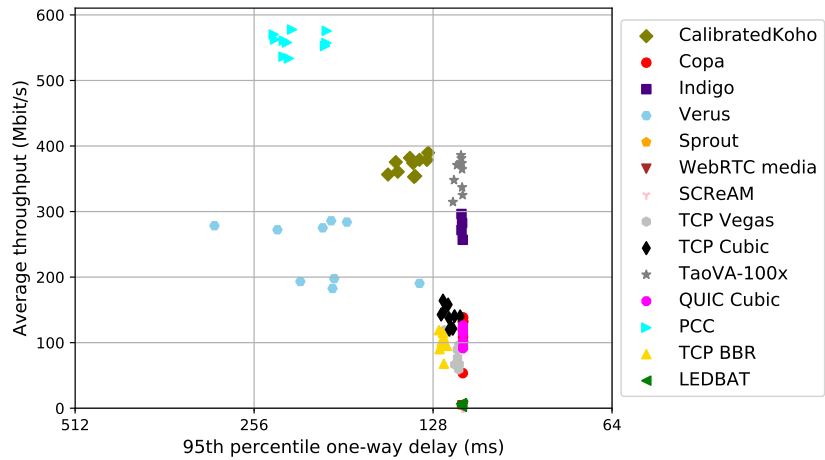
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
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 @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	46.84	51.07	56.62	583.44	123.26	125.19	0.00	0.00	0.00
TCP Cubic	10	74.78	69.99	55.42	119.30	120.43	120.94	0.00	0.06	0.04
LEDBAT	8	2.65	3.98	2.01	559.07	114.59	114.50	0.02	0.00	0.05
PCC	10	485.03	88.66	43.95	218.03	215.28	218.23	2.04	1.53	1.85
QUIC Cubic	10	59.80	57.79	37.01	113.84	113.99	113.96	0.00	0.00	0.01
SCReAM	10	0.21	0.22	0.22	114.02	113.90	113.96	0.00	0.00	0.00
WebRTC media	10	2.00	1.29	0.47	114.01	113.99	114.04	0.00	0.00	0.01
Sprout	10	2.47	2.14	1.88	114.50	114.42	114.36	0.04	0.02	0.00
TaoVA-100x	10	198.38	188.09	136.22	114.96	116.10	118.10	0.00	0.01	0.01
TCP Vegas	10	43.49	41.18	42.87	115.93	118.18	118.77	0.03	0.01	0.00
Verus	9	152.76	103.15	59.25	197.37	172.07	193.15	0.75	0.36	1.56
Copa	10	58.58	62.54	59.89	114.01	114.01	114.04	0.00	0.00	0.00
CalibratedKoho	10	275.94	140.46	2.61	140.04	139.78	134.55	0.03	0.13	0.45
Indigo	4	143.59	136.99	132.56	114.17	114.54	117.36	0.00	0.00	0.00

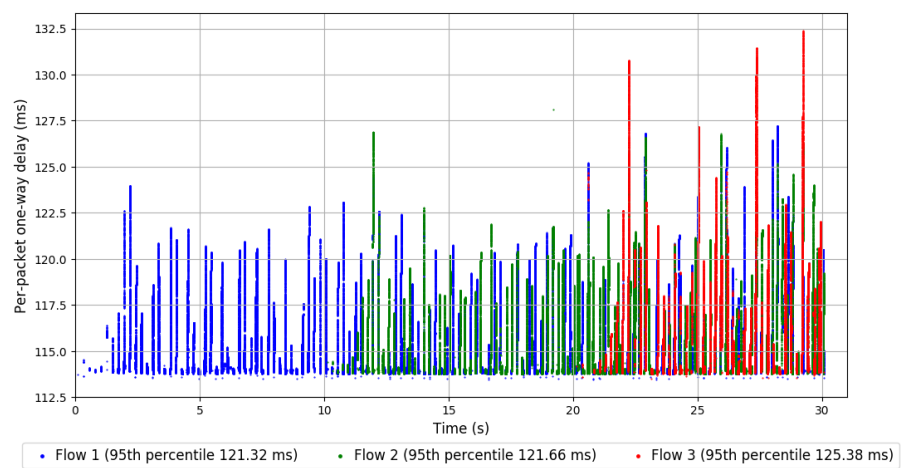
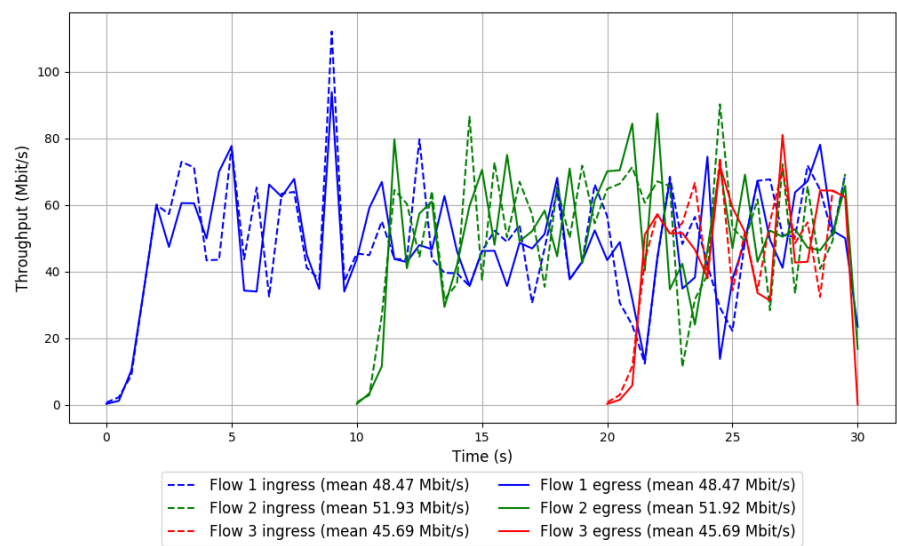
```
Run 1: Statistics of TCP BBR

Start at: 2017-10-12 05:44:00
End at: 2017-10-12 05:44:30

# Below is generated by plot.py at 2017-10-12 08:48:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.16 Mbit/s
95th percentile per-packet one-way delay: 121.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 121.317 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 121.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.69 Mbit/s
95th percentile per-packet one-way delay: 125.383 ms
Loss rate: 0.00%
```



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-12 05:57:17

End at: 2017-10-12 05:57:47

# Below is generated by plot.py at 2017-10-12 08:48:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 121.351 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.09 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.61 Mbit/s

95th percentile per-packet one-way delay: 121.166 ms

Loss rate: 0.00%

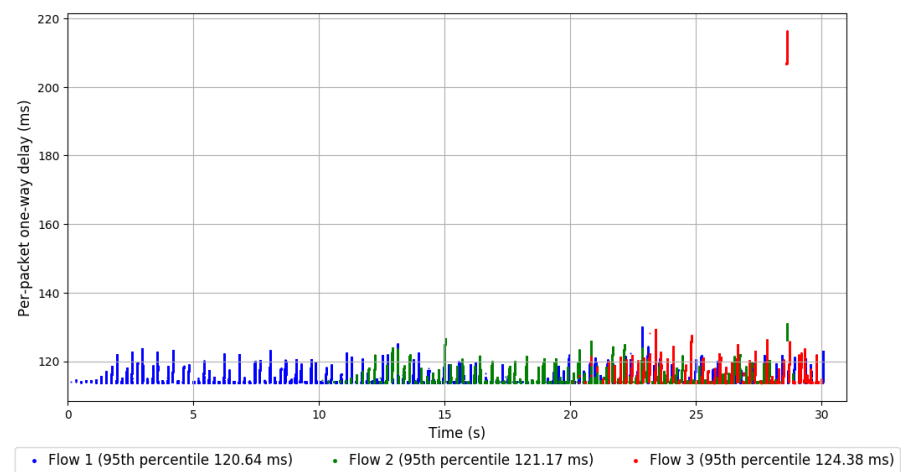
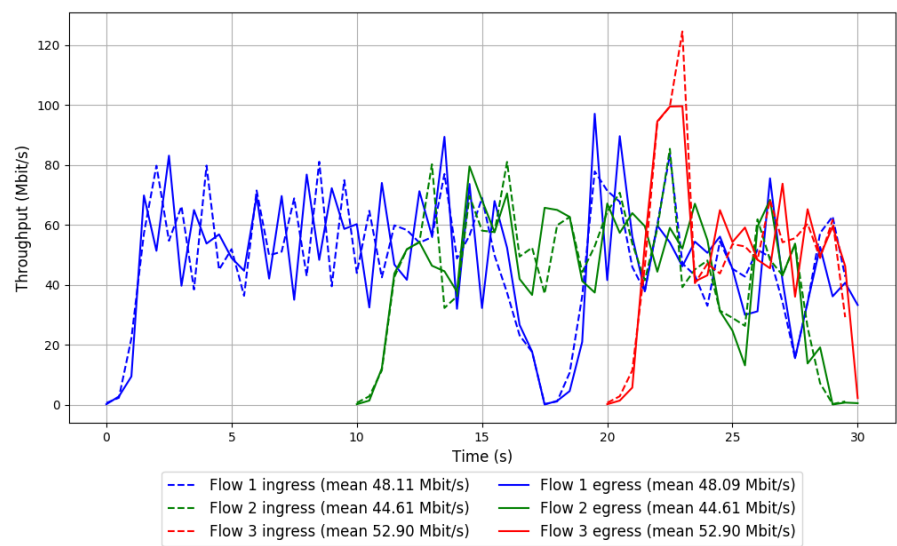
-- Flow 3:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 124.380 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-12 06:10:40

End at: 2017-10-12 06:11:10

# Below is generated by plot.py at 2017-10-12 08:48:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 108.67 Mbit/s

95th percentile per-packet one-way delay: 122.910 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 122.386 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 121.806 ms

Loss rate: 0.01%

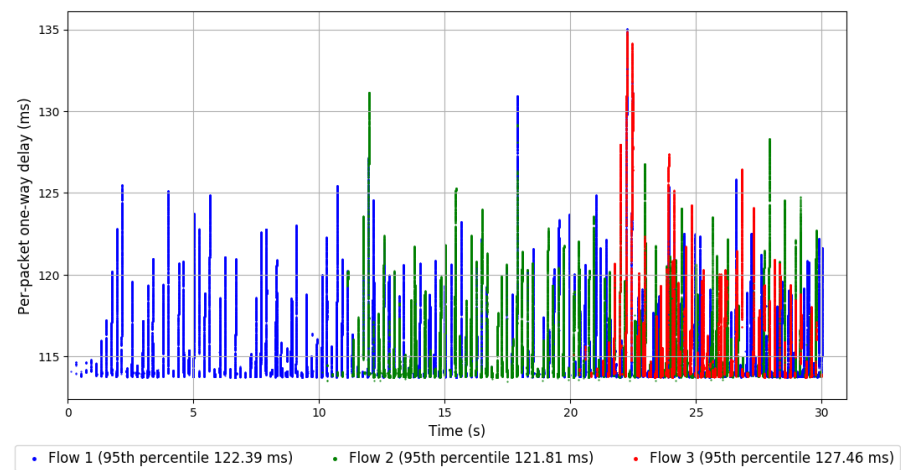
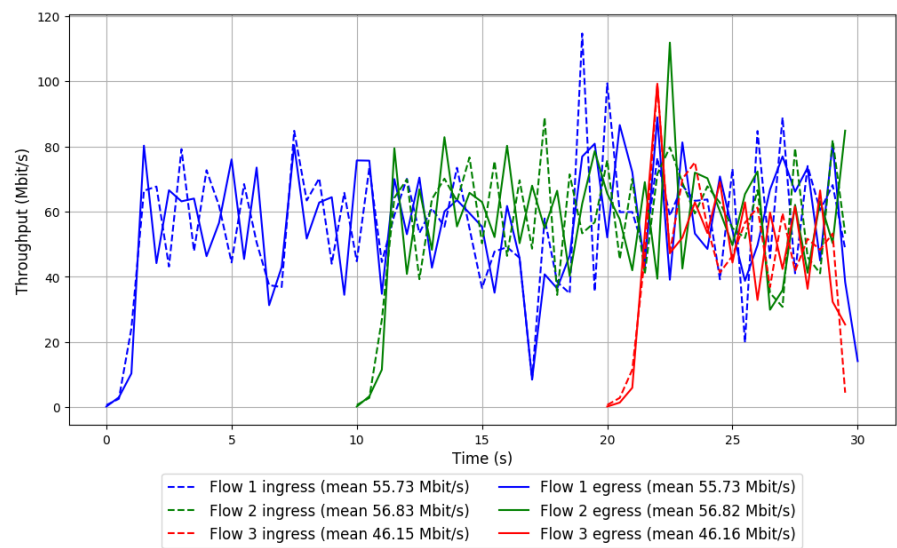
-- Flow 3:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 127.456 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-12 06:24:12

End at: 2017-10-12 06:24:42

# Below is generated by plot.py at 2017-10-12 08:48:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 102.25 Mbit/s

95th percentile per-packet one-way delay: 123.721 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.25 Mbit/s

95th percentile per-packet one-way delay: 122.436 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 124.463 ms

Loss rate: 0.00%

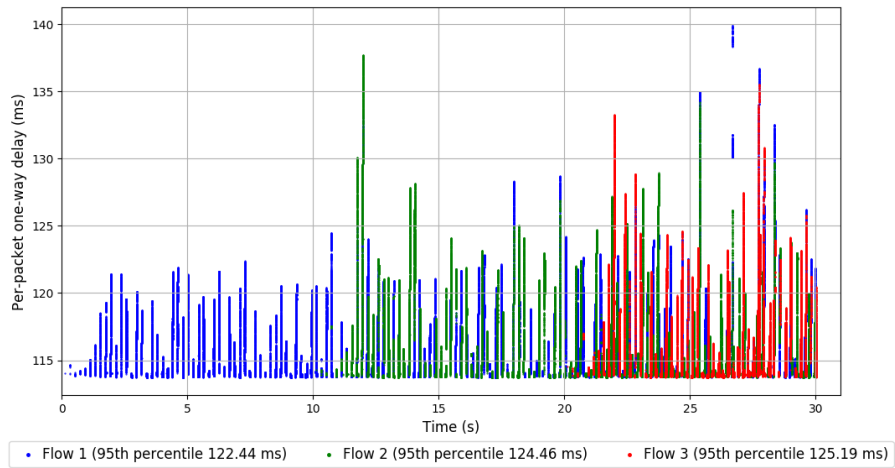
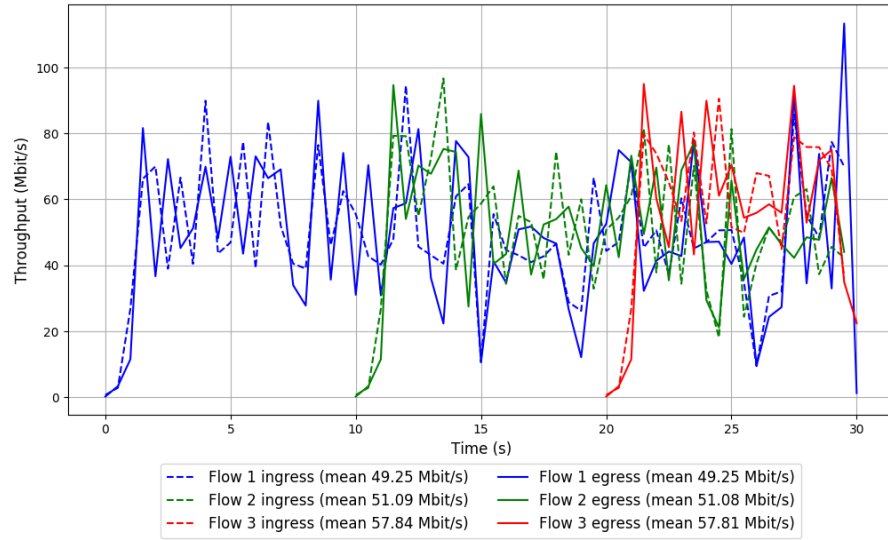
-- Flow 3:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 125.195 ms

Loss rate: 0.00%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-12 06:37:36

End at: 2017-10-12 06:38:06

# Below is generated by plot.py at 2017-10-12 08:48:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.91 Mbit/s

95th percentile per-packet one-way delay: 122.746 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 4730.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.72 Mbit/s

95th percentile per-packet one-way delay: 121.735 ms

Loss rate: 0.00%

-- Flow 3:

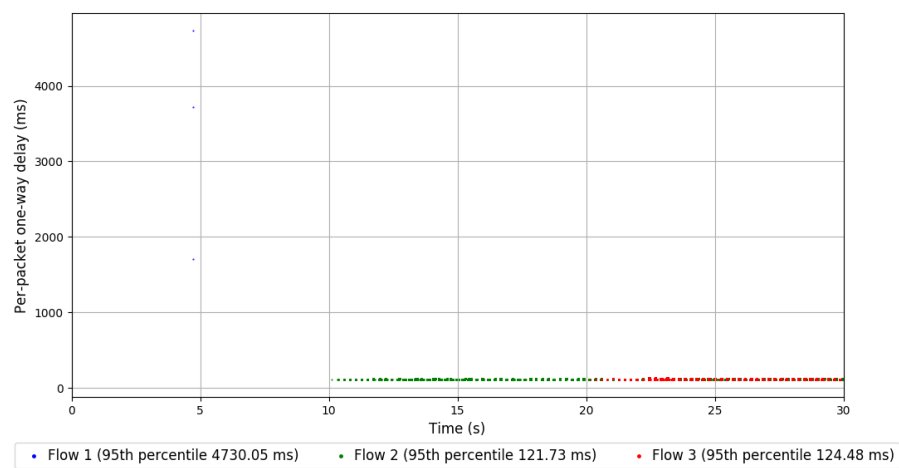
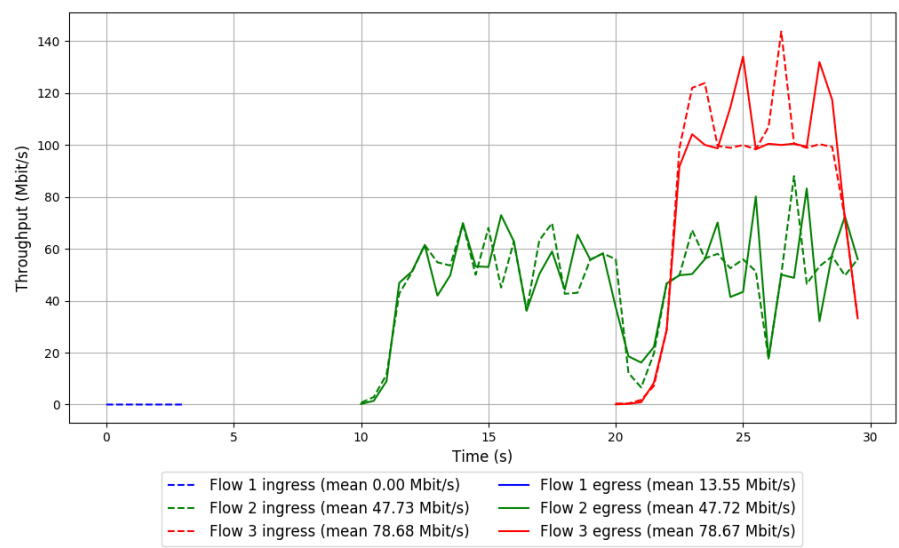
Average throughput: 78.67 Mbit/s

95th percentile per-packet one-way delay: 124.480 ms

Loss rate: 0.02%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-12 06:51:05

End at: 2017-10-12 06:51:35

# Below is generated by plot.py at 2017-10-12 08:48:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 119.14 Mbit/s

95th percentile per-packet one-way delay: 125.122 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 125.605 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 124.663 ms

Loss rate: 0.00%

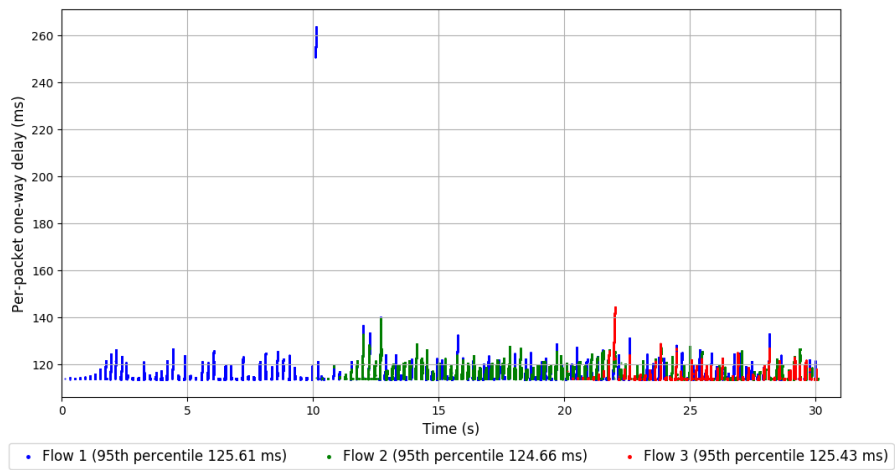
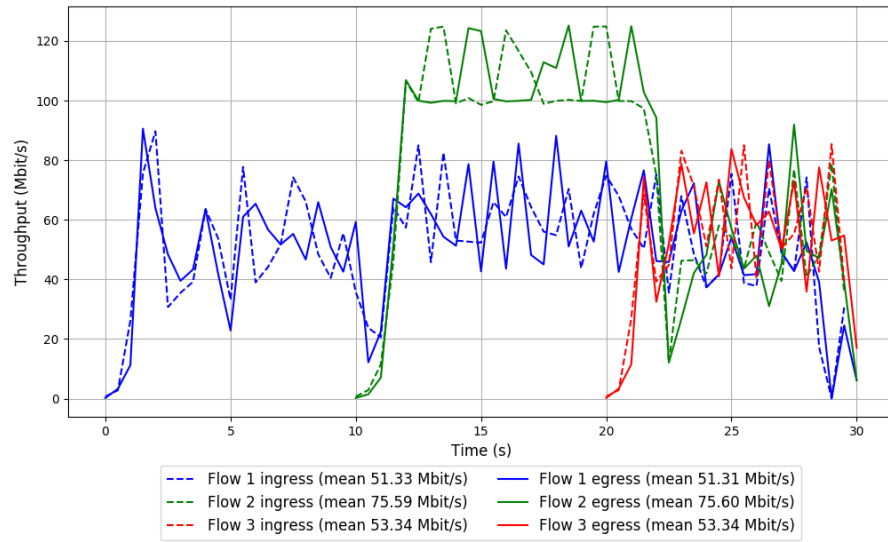
-- Flow 3:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 125.433 ms

Loss rate: 0.00%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-12 07:04:33

End at: 2017-10-12 07:05:03

# Below is generated by plot.py at 2017-10-12 08:48:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 114.92 Mbit/s

95th percentile per-packet one-way delay: 123.237 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 122.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 123.651 ms

Loss rate: 0.00%

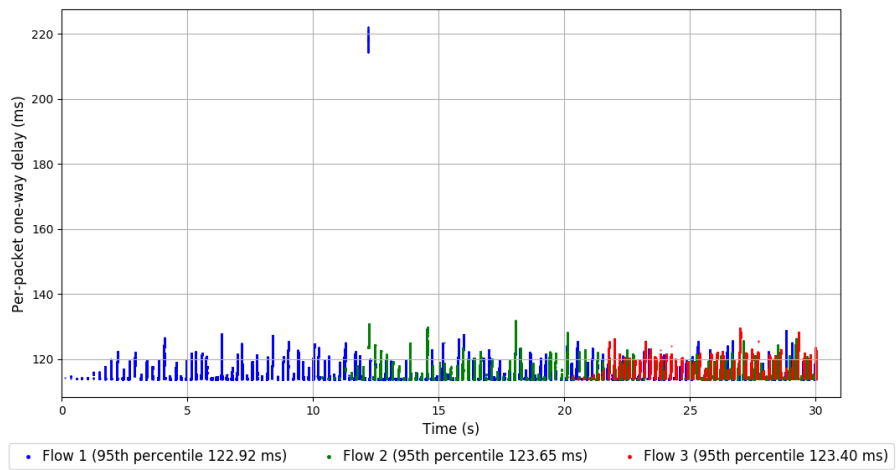
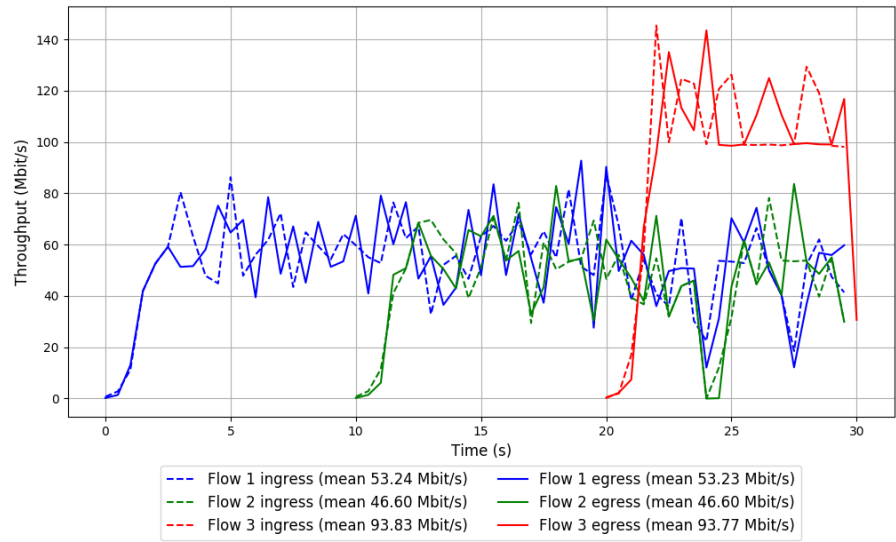
-- Flow 3:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 123.398 ms

Loss rate: 0.00%

# Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-12 07:17:46

End at: 2017-10-12 07:18:16

# Below is generated by plot.py at 2017-10-12 08:48:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 122.469 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.85 Mbit/s

95th percentile per-packet one-way delay: 121.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 123.549 ms

Loss rate: 0.00%

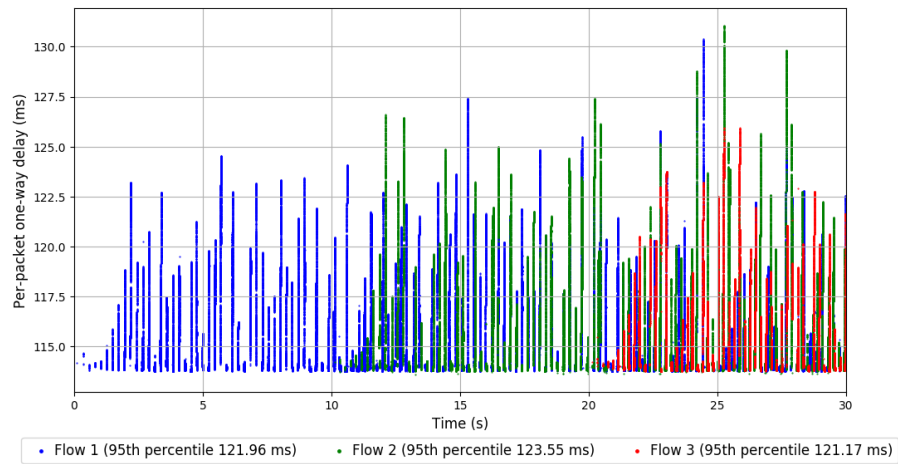
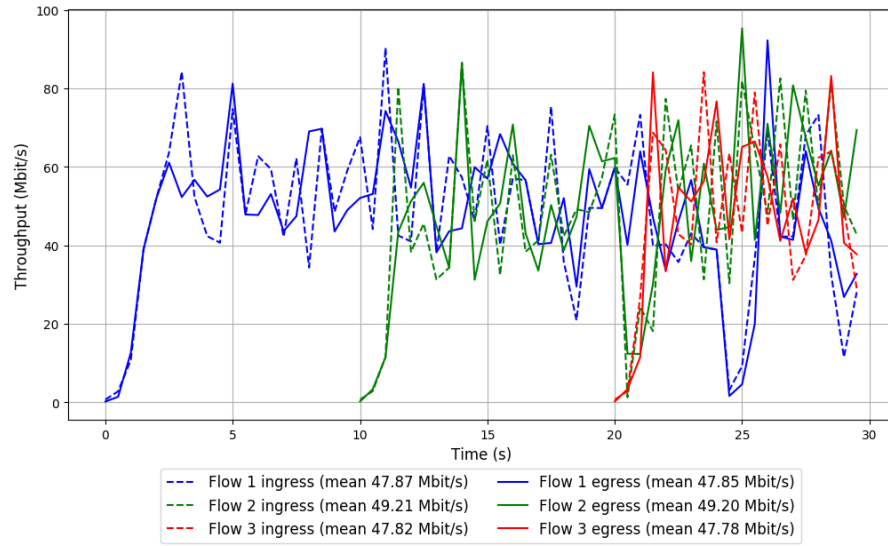
-- Flow 3:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 121.173 ms

Loss rate: 0.00%

## Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-12 07:31:20

End at: 2017-10-12 07:31:50

# Below is generated by plot.py at 2017-10-12 08:49:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 124.831 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 50.72 Mbit/s

95th percentile per-packet one-way delay: 124.058 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 125.243 ms

Loss rate: 0.00%

-- Flow 3:

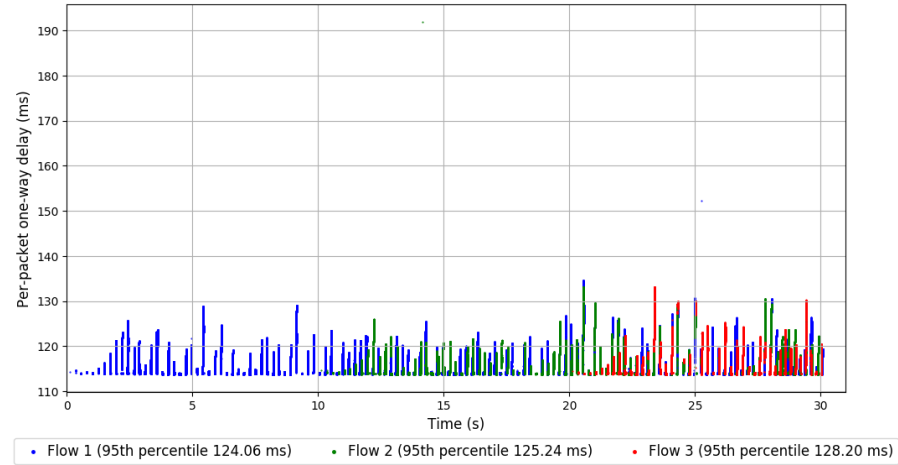
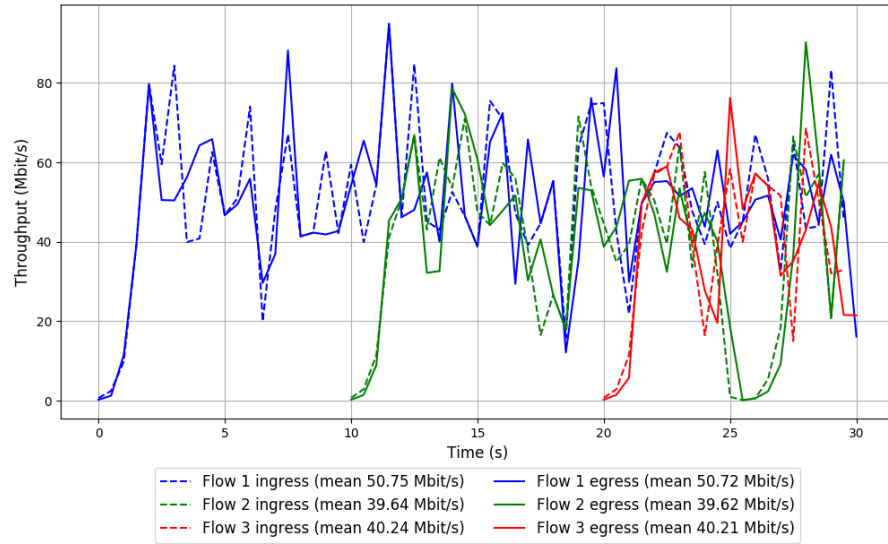
Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 128.196 ms

Loss rate: 0.00%



## Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-12 07:44:49

End at: 2017-10-12 07:45:19

# Below is generated by plot.py at 2017-10-12 08:50:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 98.04 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 123.001 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 124.616 ms

Loss rate: 0.00%

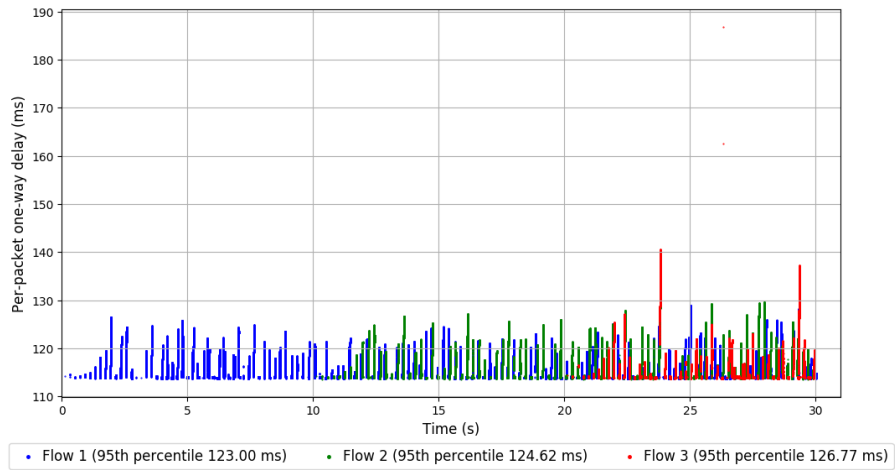
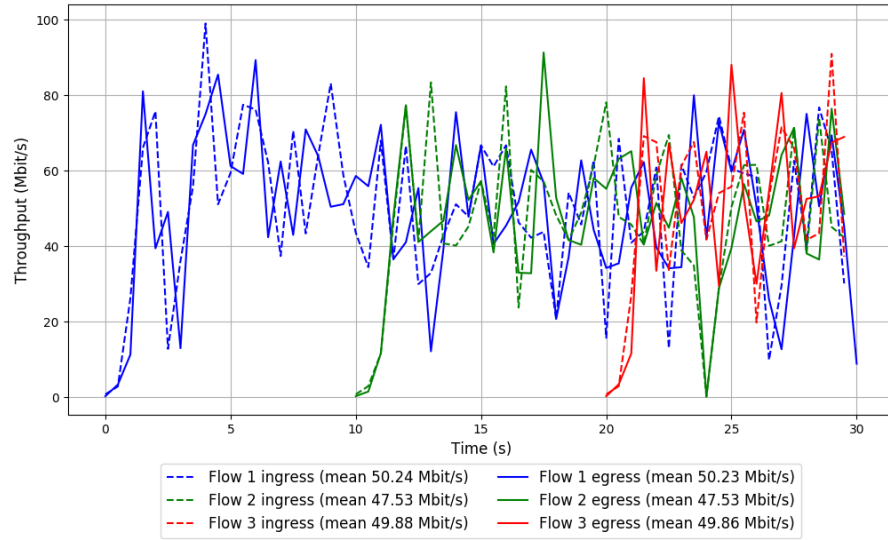
-- Flow 3:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 126.772 ms

Loss rate: 0.00%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-12 05:48:53

End at: 2017-10-12 05:49:23

# Below is generated by plot.py at 2017-10-12 08:50:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 142.81 Mbit/s

95th percentile per-packet one-way delay: 124.041 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 119.029 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.63 Mbit/s

95th percentile per-packet one-way delay: 123.778 ms

Loss rate: 0.17%

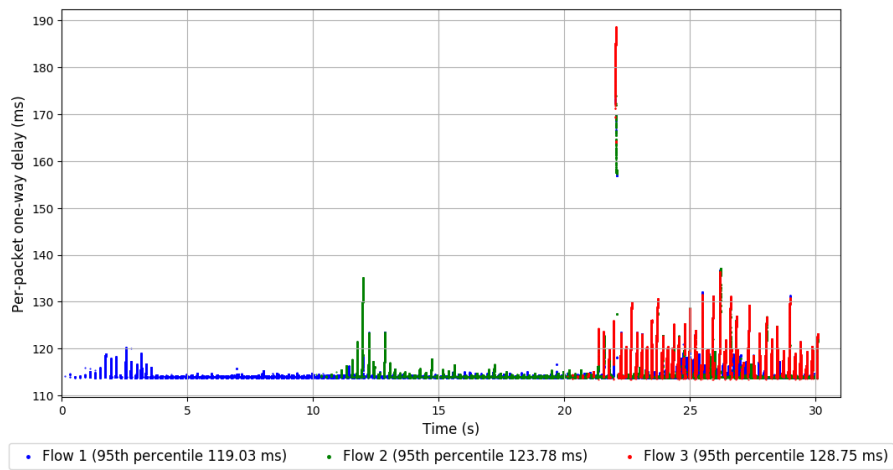
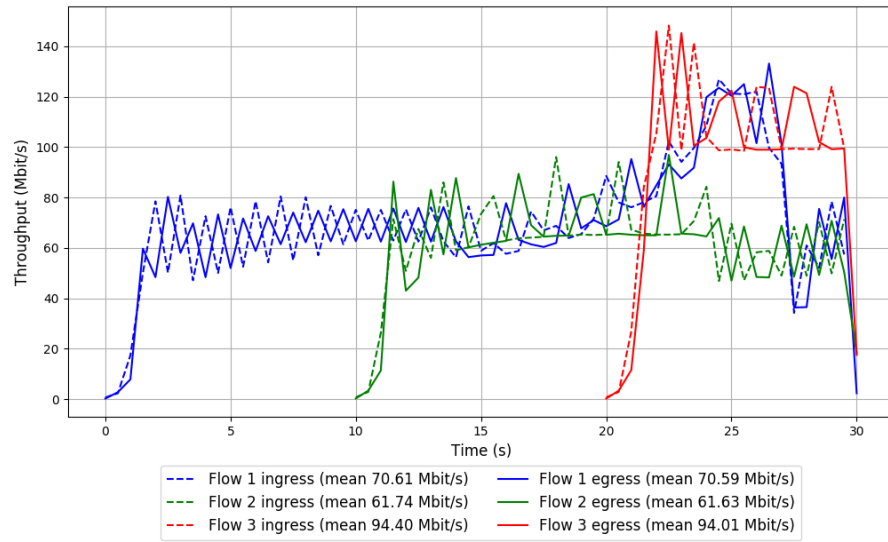
-- Flow 3:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 128.750 ms

Loss rate: 0.39%

## Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-12 06:02:26

End at: 2017-10-12 06:02:56

# Below is generated by plot.py at 2017-10-12 08:50:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 120.02 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 120.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 120.124 ms

Loss rate: 0.00%

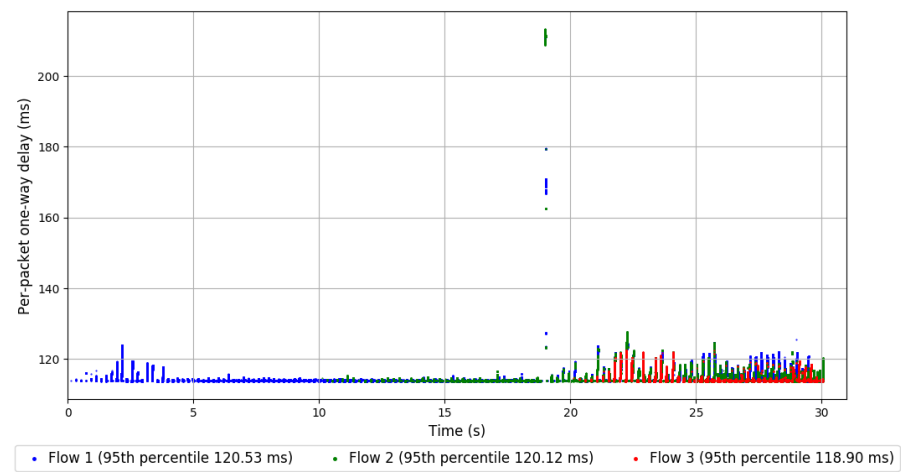
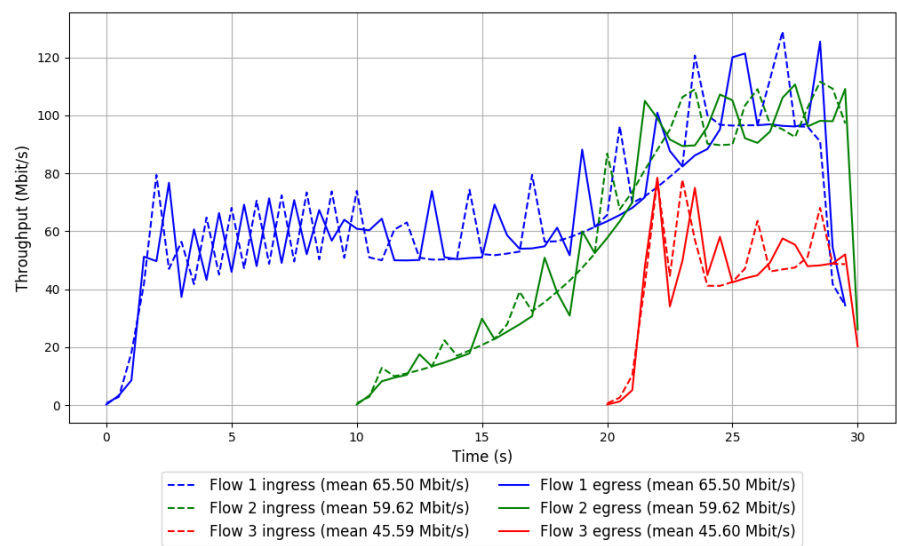
-- Flow 3:

Average throughput: 45.60 Mbit/s

95th percentile per-packet one-way delay: 118.897 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-12 06:15:48

End at: 2017-10-12 06:16:18

# Below is generated by plot.py at 2017-10-12 08:51:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 158.00 Mbit/s

95th percentile per-packet one-way delay: 120.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 121.260 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 119.885 ms

Loss rate: 0.00%

-- Flow 3:

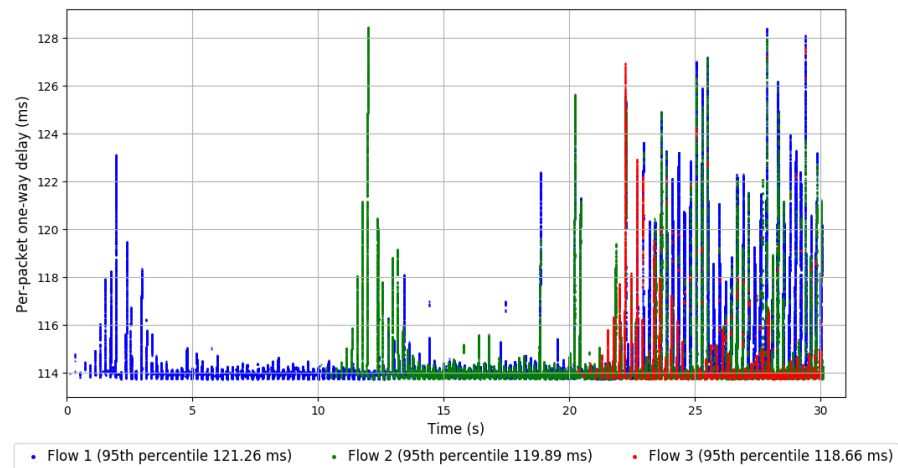
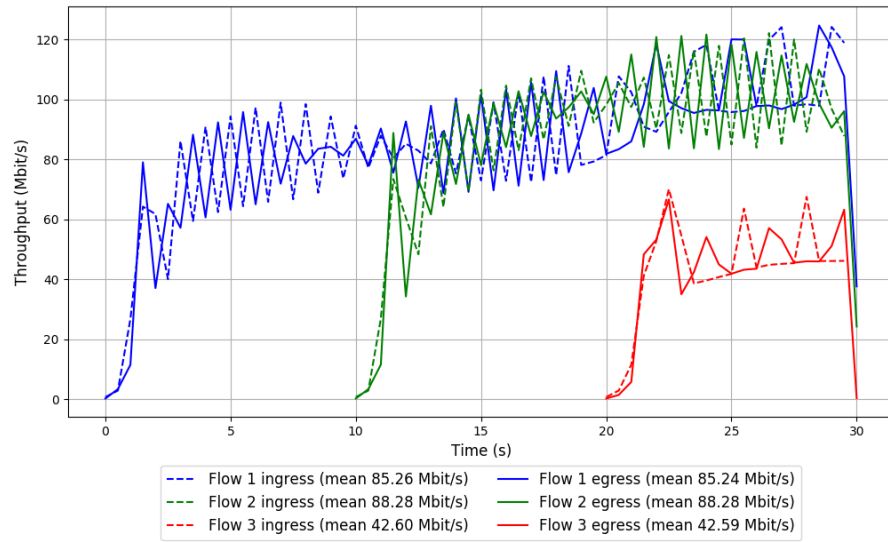
Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 118.662 ms

Loss rate: 0.00%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-12 06:29:21

End at: 2017-10-12 06:29:51

# Below is generated by plot.py at 2017-10-12 08:51:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 121.32 Mbit/s

95th percentile per-packet one-way delay: 118.572 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.25 Mbit/s

95th percentile per-packet one-way delay: 118.202 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 118.378 ms

Loss rate: 0.00%

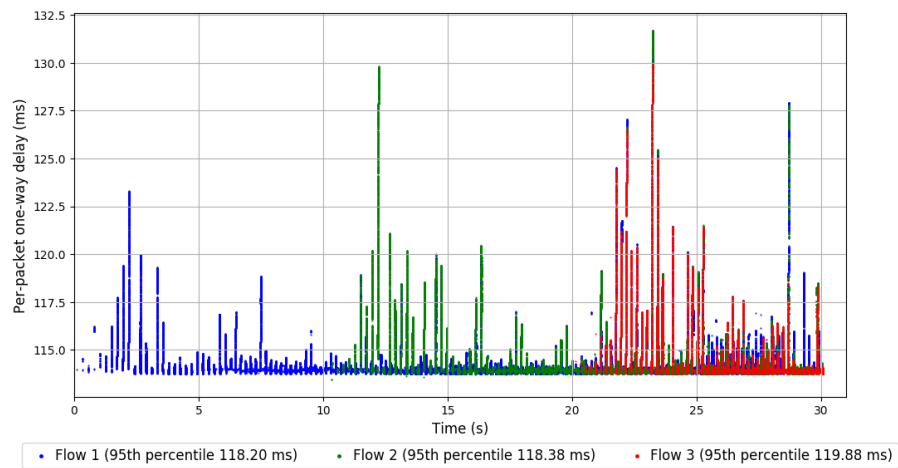
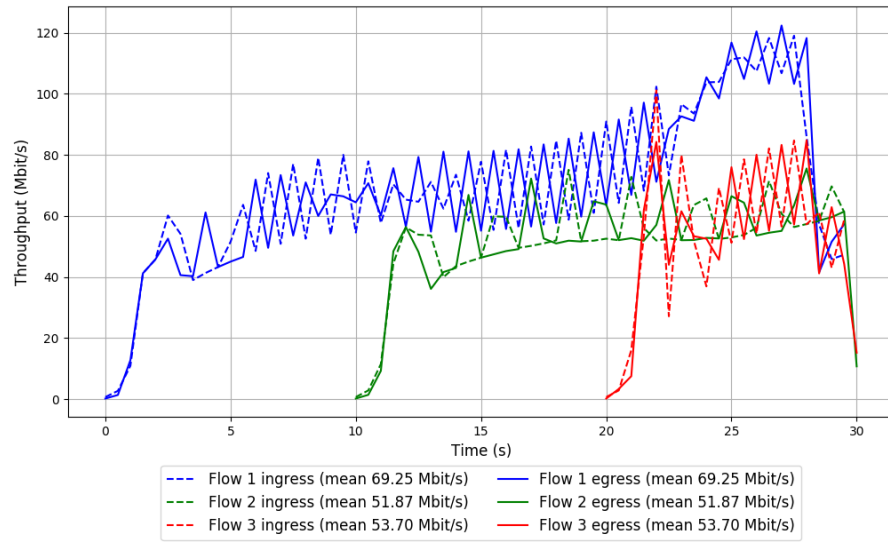
-- Flow 3:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 119.883 ms

Loss rate: 0.00%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-12 06:42:44

End at: 2017-10-12 06:43:14

# Below is generated by plot.py at 2017-10-12 08:51:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 137.42 Mbit/s

95th percentile per-packet one-way delay: 120.337 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 119.890 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 120.640 ms

Loss rate: 0.38%

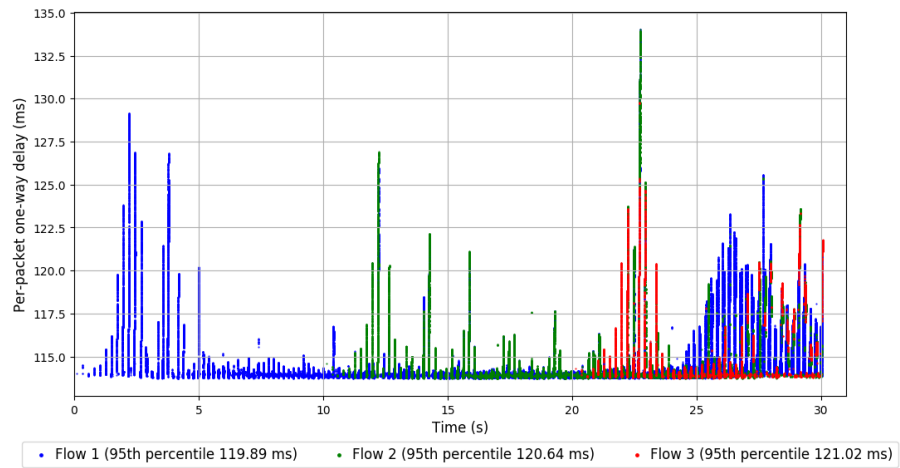
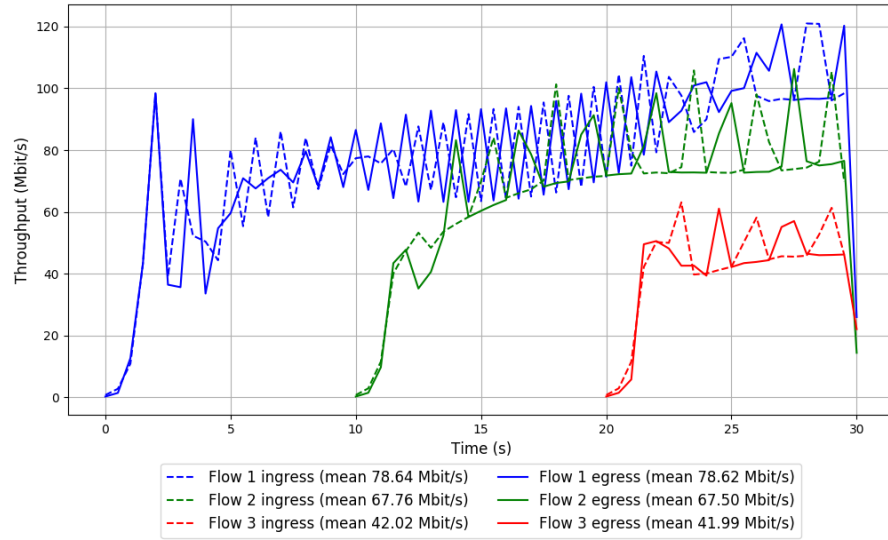
-- Flow 3:

Average throughput: 41.99 Mbit/s

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

Loss rate: 0.00%

# Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-12 06:56:11

End at: 2017-10-12 06:56:41

# Below is generated by plot.py at 2017-10-12 08:51:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 140.38 Mbit/s

95th percentile per-packet one-way delay: 117.795 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 117.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 117.540 ms

Loss rate: 0.00%

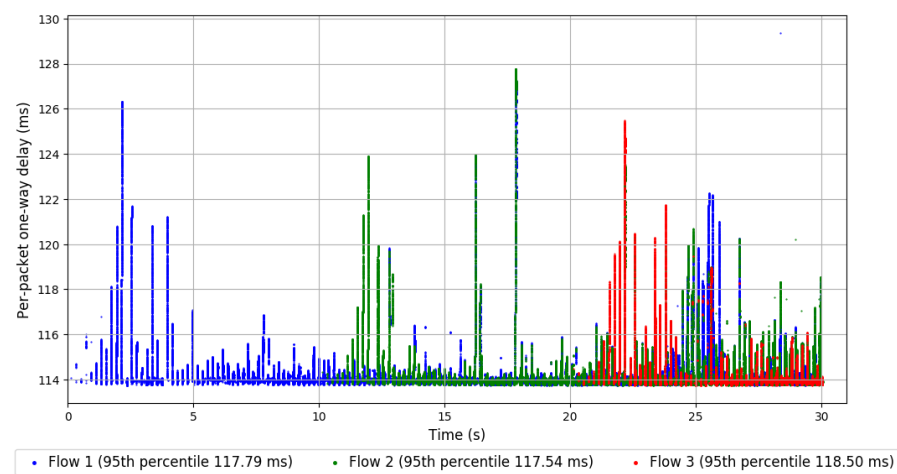
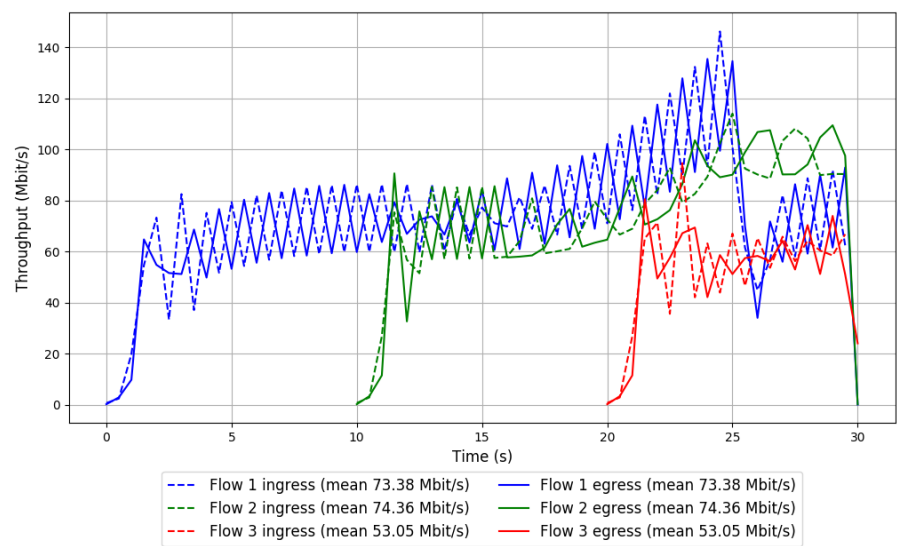
-- Flow 3:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 118.497 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-12 07:09:40

End at: 2017-10-12 07:10:10

# Below is generated by plot.py at 2017-10-12 08:52:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 140.03 Mbit/s

95th percentile per-packet one-way delay: 115.247 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.97 Mbit/s

95th percentile per-packet one-way delay: 115.109 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 115.770 ms

Loss rate: 0.00%

-- Flow 3:

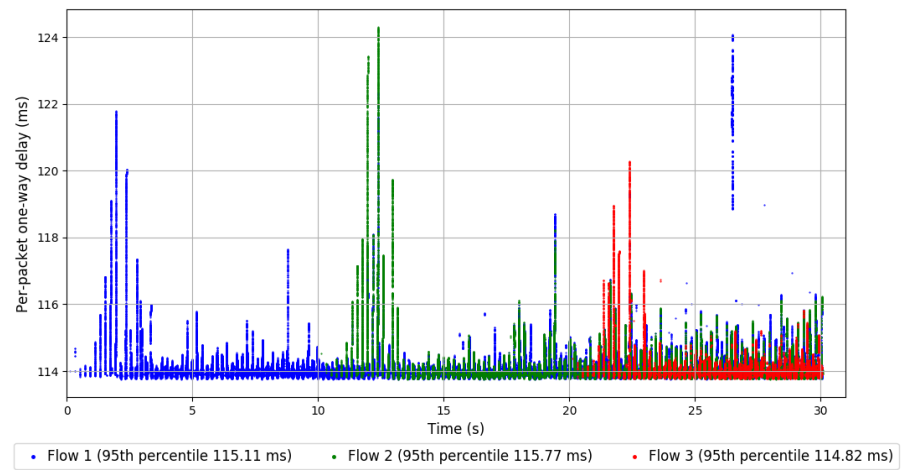
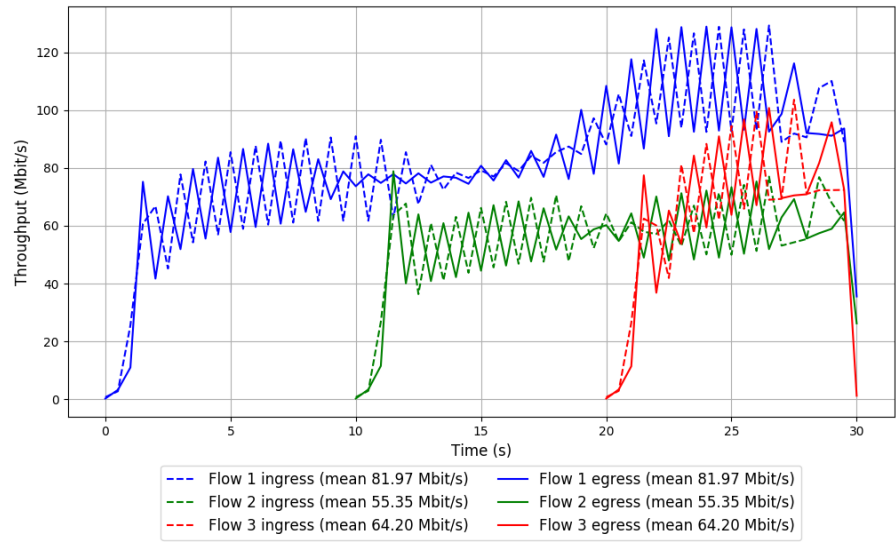
Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 114.824 ms

Loss rate: 0.00%



# Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-12 07:22:54

End at: 2017-10-12 07:23:24

# Below is generated by plot.py at 2017-10-12 08:52:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 123.23 Mbit/s

95th percentile per-packet one-way delay: 119.390 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 119.138 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 120.614 ms

Loss rate: 0.00%

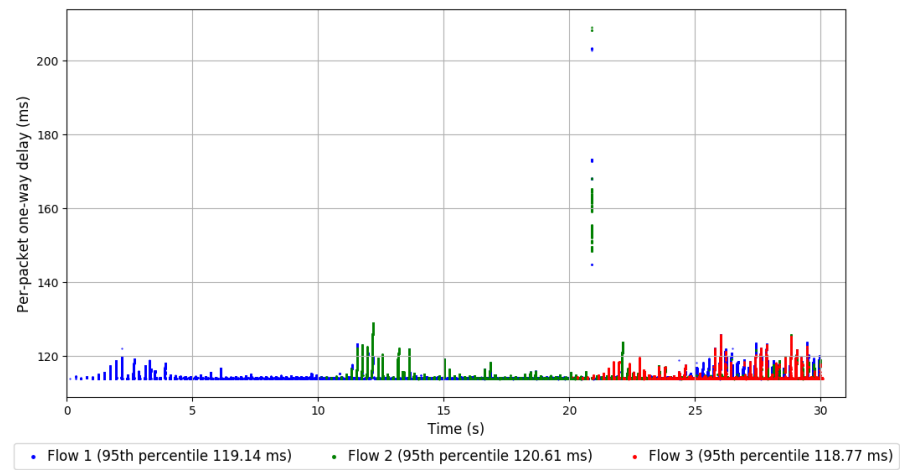
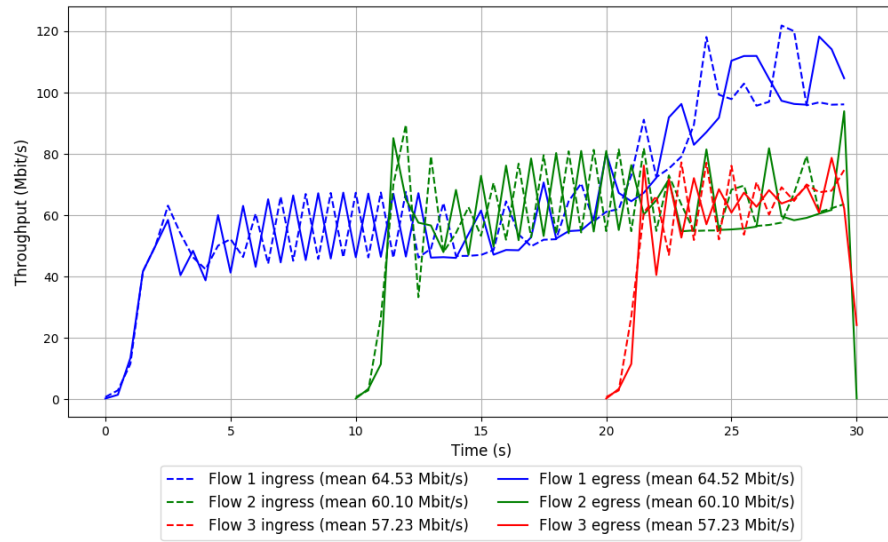
-- Flow 3:

Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 118.774 ms

Loss rate: 0.00%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-12 07:36:30

End at: 2017-10-12 07:37:00

# Below is generated by plot.py at 2017-10-12 08:53:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 147.75 Mbit/s

95th percentile per-packet one-way delay: 122.805 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 120.158 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.27 Mbit/s

95th percentile per-packet one-way delay: 123.962 ms

Loss rate: 0.00%

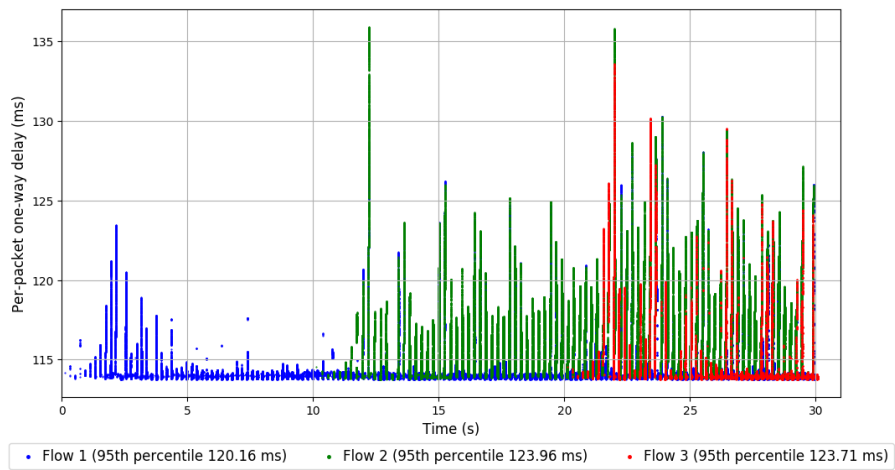
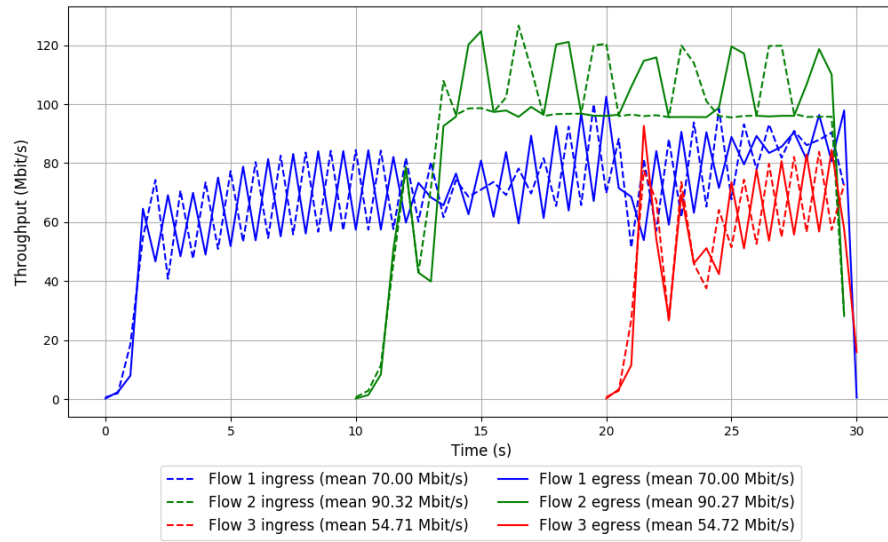
-- Flow 3:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 123.714 ms

Loss rate: 0.00%

# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-12 07:50:04

End at: 2017-10-12 07:50:34

# Below is generated by plot.py at 2017-10-12 08:53:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 164.11 Mbit/s

95th percentile per-packet one-way delay: 123.171 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.72 Mbit/s

95th percentile per-packet one-way delay: 121.938 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 123.603 ms

Loss rate: 0.00%

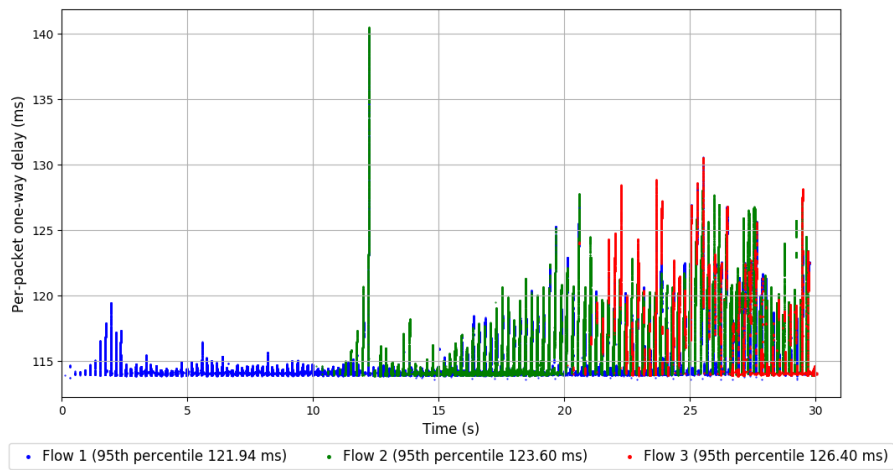
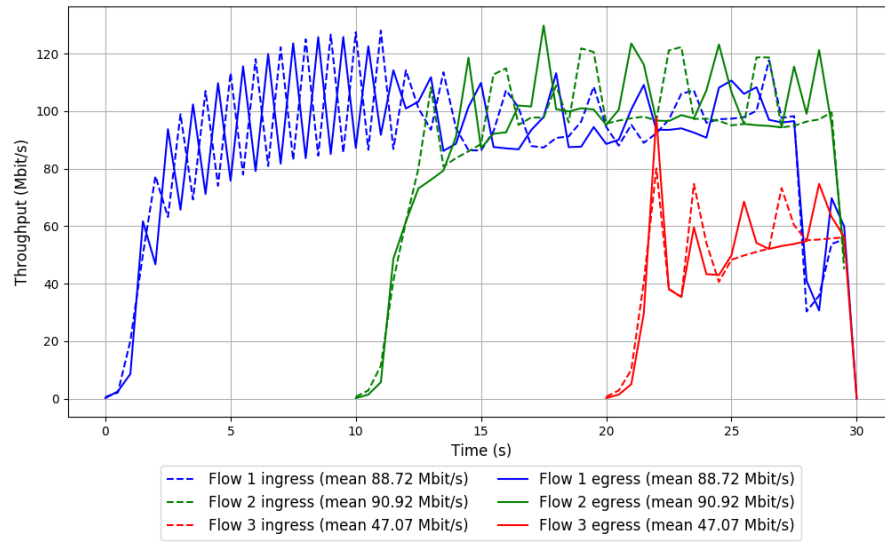
-- Flow 3:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 126.403 ms

Loss rate: 0.00%

# Run 10: Report of TCP Cubic — Data Link



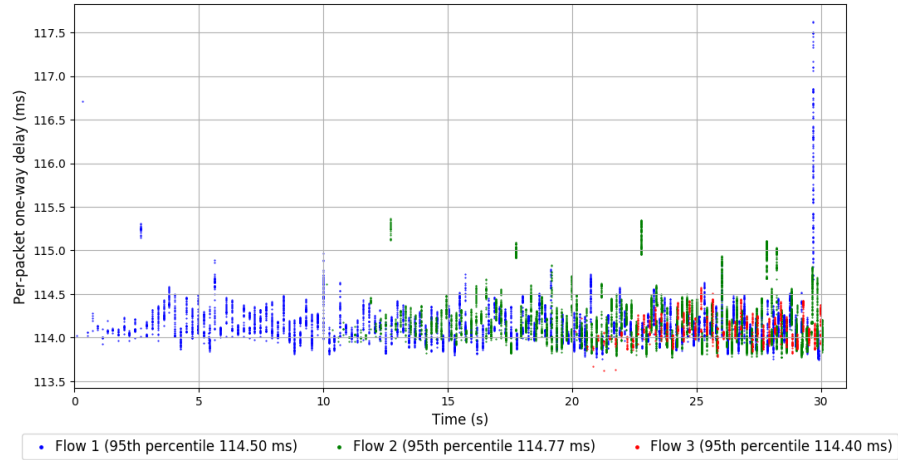
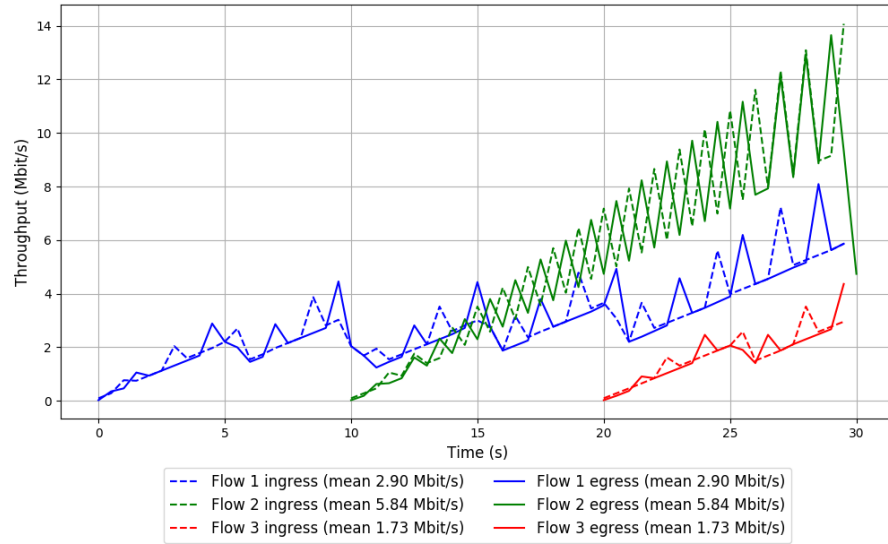
```
Run 1: Statistics of LEDBAT

Start at: 2017-10-12 05:52:36
End at: 2017-10-12 05:53:06

# Below is generated by plot.py at 2017-10-12 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 114.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 114.501 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 114.771 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 114.397 ms
Loss rate: 0.00%
```



## Run 1: Report of LEDBAT — Data Link

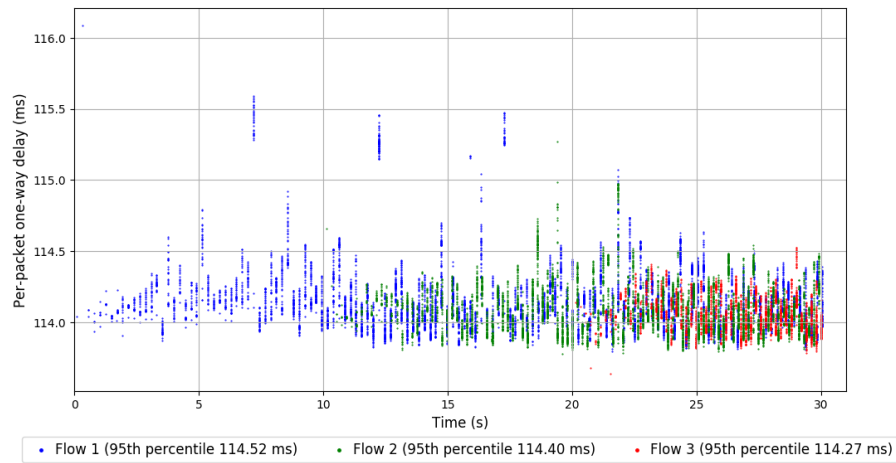
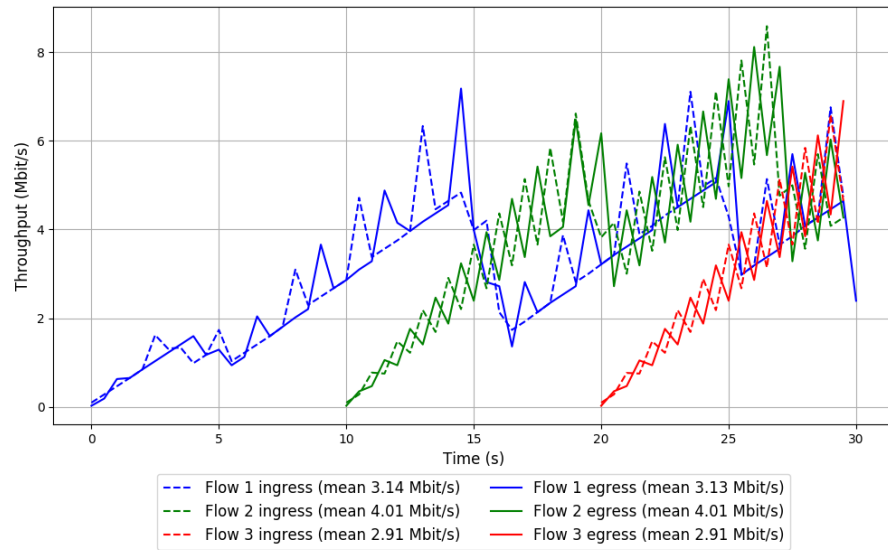


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-12 06:06:07
End at: 2017-10-12 06:06:37

# Below is generated by plot.py at 2017-10-12 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 114.437 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 114.524 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 114.403 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 114.268 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-12 06:19:36

End at: 2017-10-12 06:20:06

# Below is generated by plot.py at 2017-10-12 08:53:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 114.419 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 4.19 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 3.30 Mbit/s

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

Loss rate: 0.00%

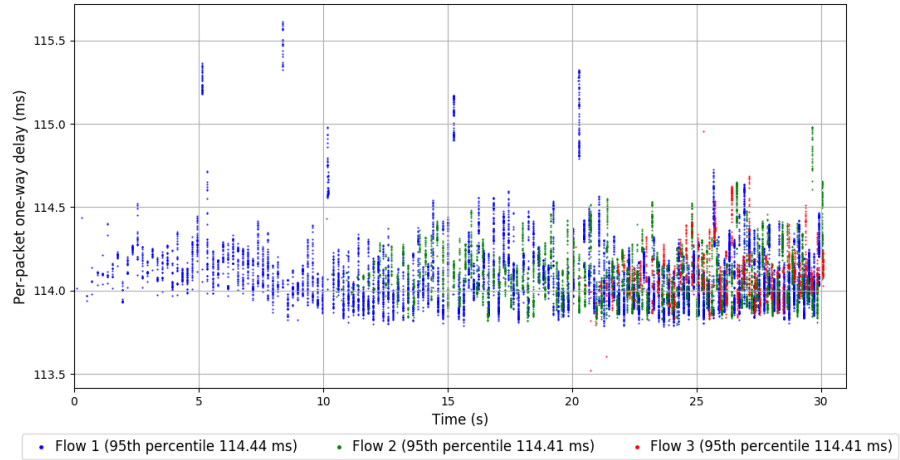
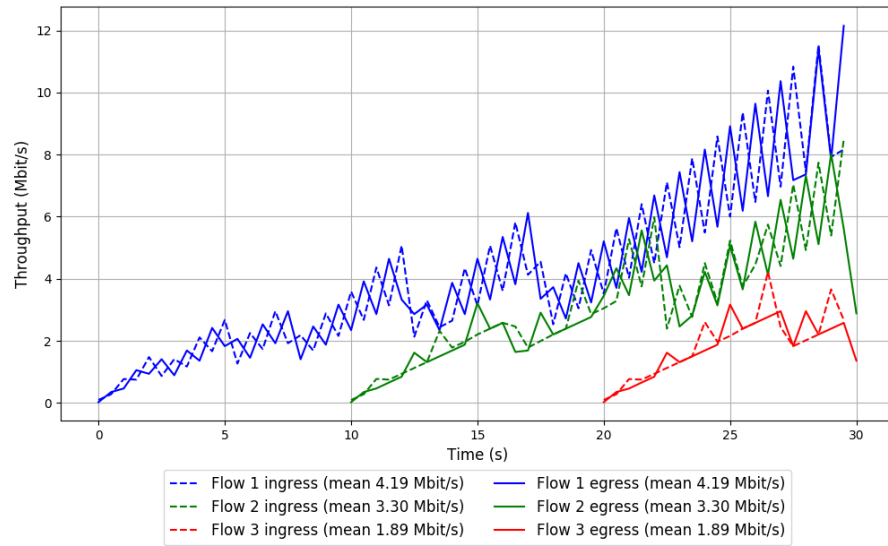
-- Flow 3:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 114.411 ms

Loss rate: 0.00%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-12 06:33:04

End at: 2017-10-12 06:33:34

# Below is generated by plot.py at 2017-10-12 08:53:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 114.542 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1927.279 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.25 Mbit/s

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

Loss rate: 0.00%

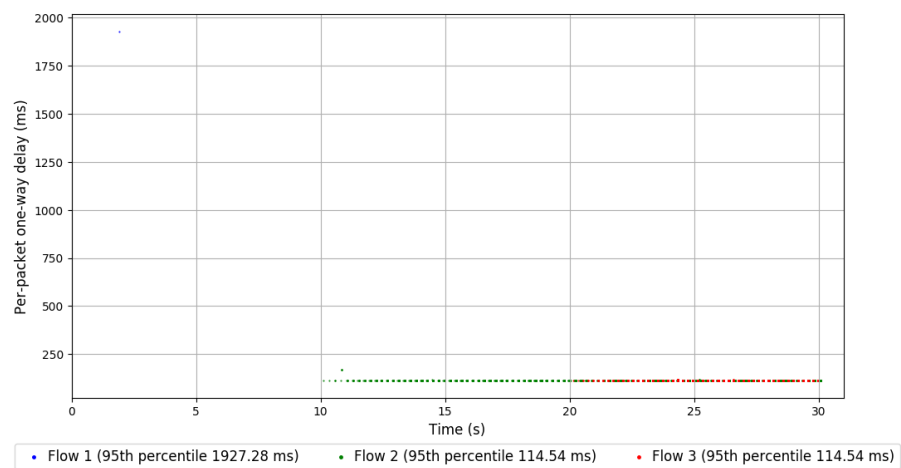
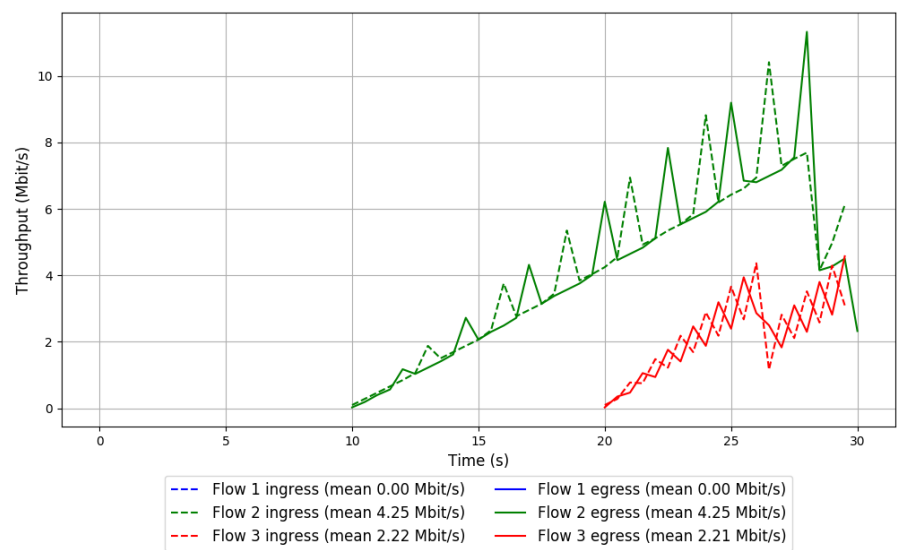
-- Flow 3:

Average throughput: 2.21 Mbit/s

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

Loss rate: 0.37%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-12 06:46:29

End at: 2017-10-12 06:46:59

# Below is generated by plot.py at 2017-10-12 08:53:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 114.492 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 114.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 114.854 ms

Loss rate: 0.01%

-- Flow 3:

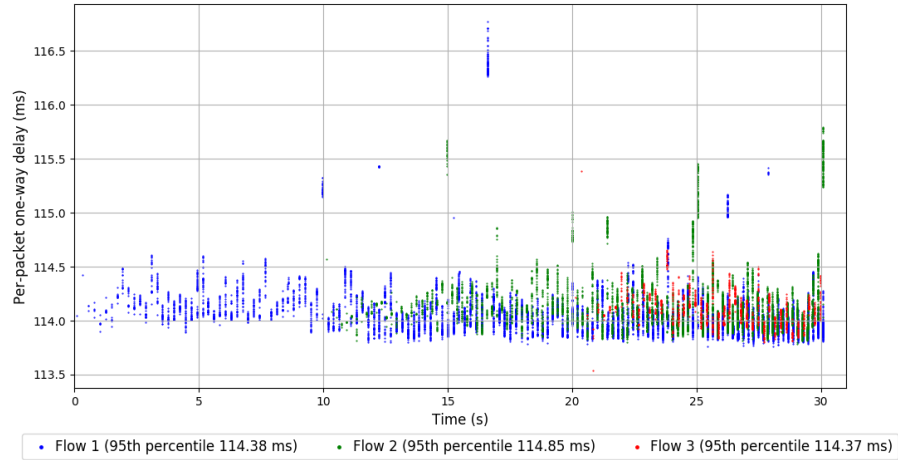
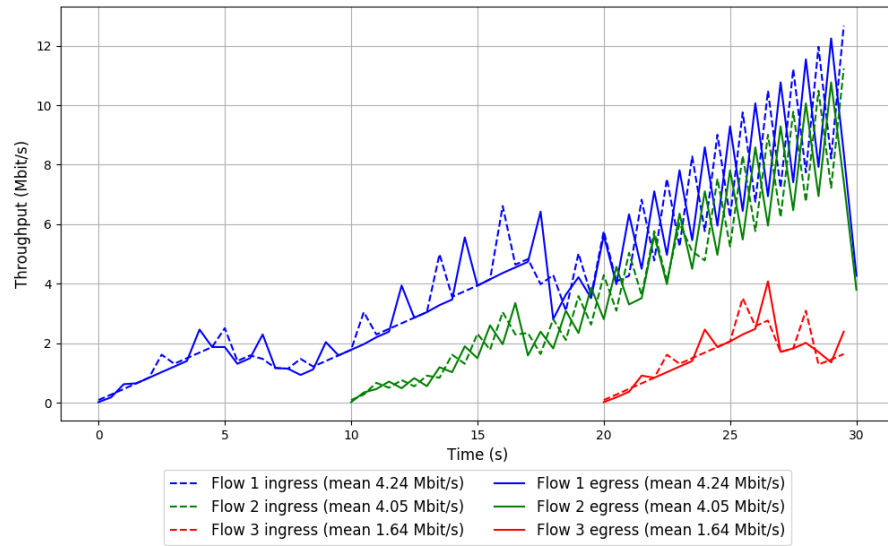
Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 114.374 ms

Loss rate: 0.00%



# Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-12 06:59:59

End at: 2017-10-12 07:00:29

# Below is generated by plot.py at 2017-10-12 08:53:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 114.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 114.794 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.92 Mbit/s

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

Loss rate: 0.00%

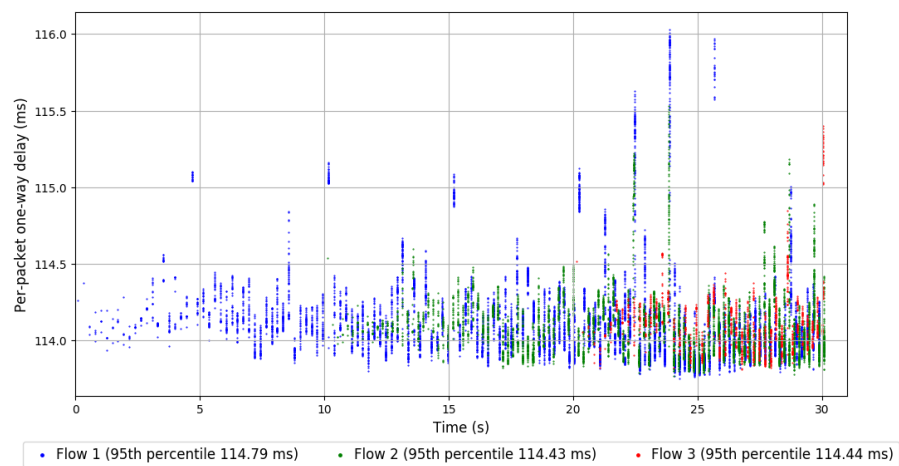
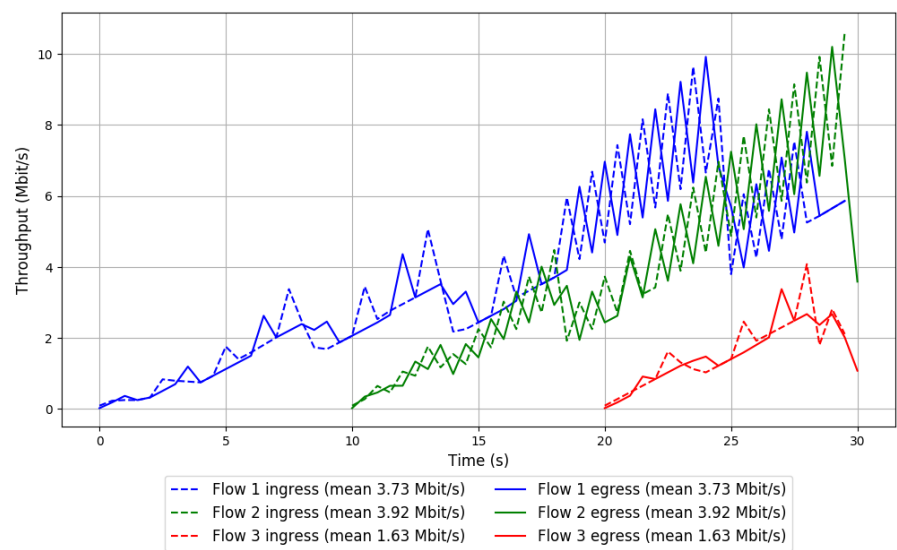
-- Flow 3:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 114.438 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

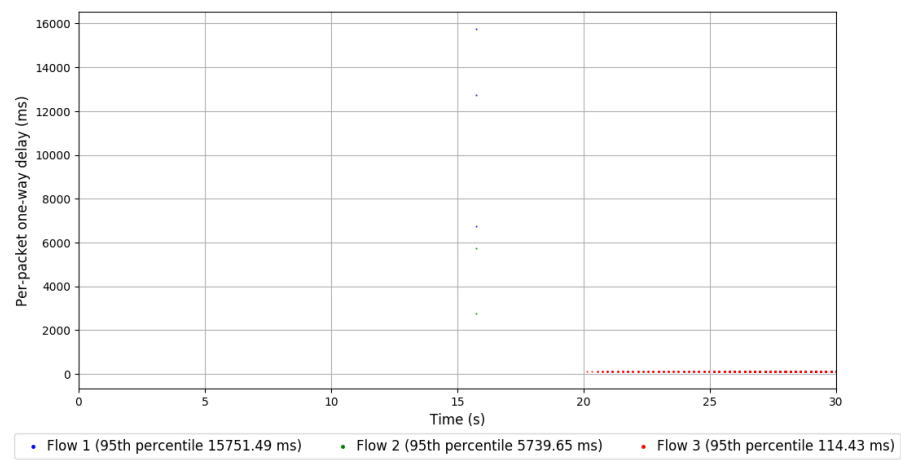
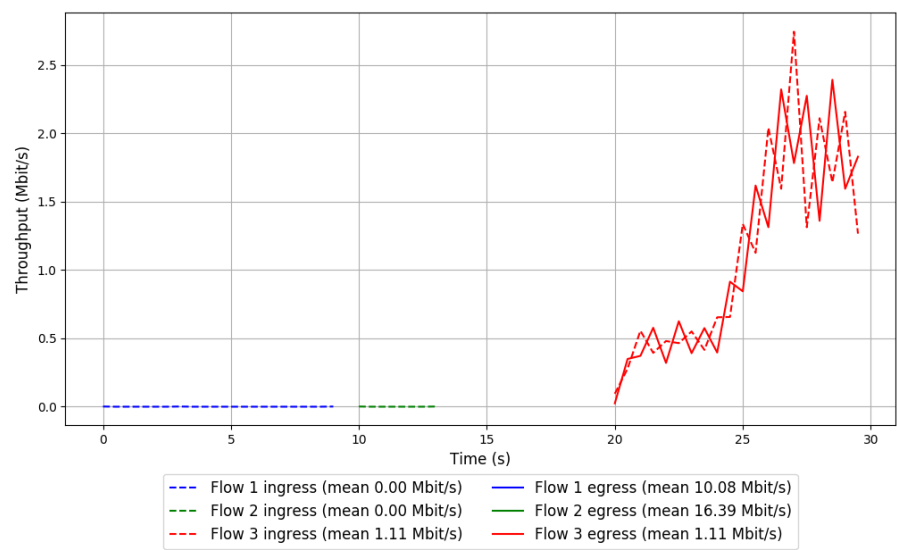


Run 7: Statistics of LEDBAT

Start at: 2017-10-12 07:13:09

End at: 2017-10-12 07:13:39

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-12 07:26:38

End at: 2017-10-12 07:27:08

# Below is generated by plot.py at 2017-10-12 08:53:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 114.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1857.766 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 114.450 ms

Loss rate: 0.00%

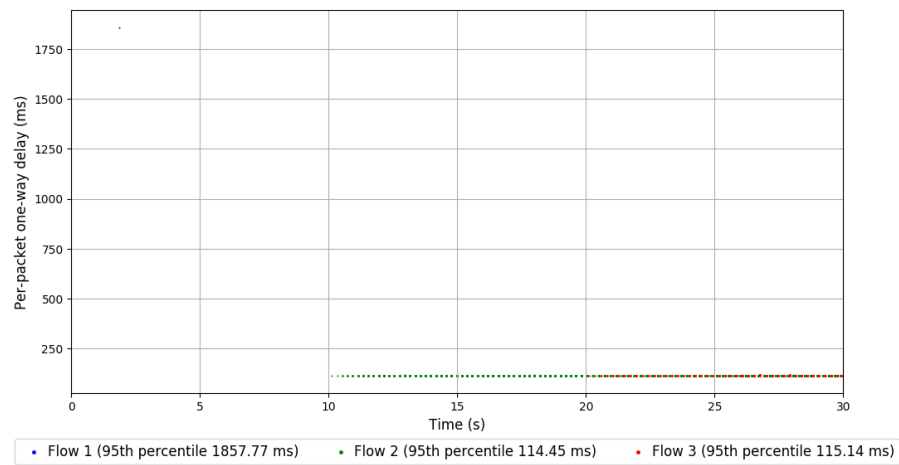
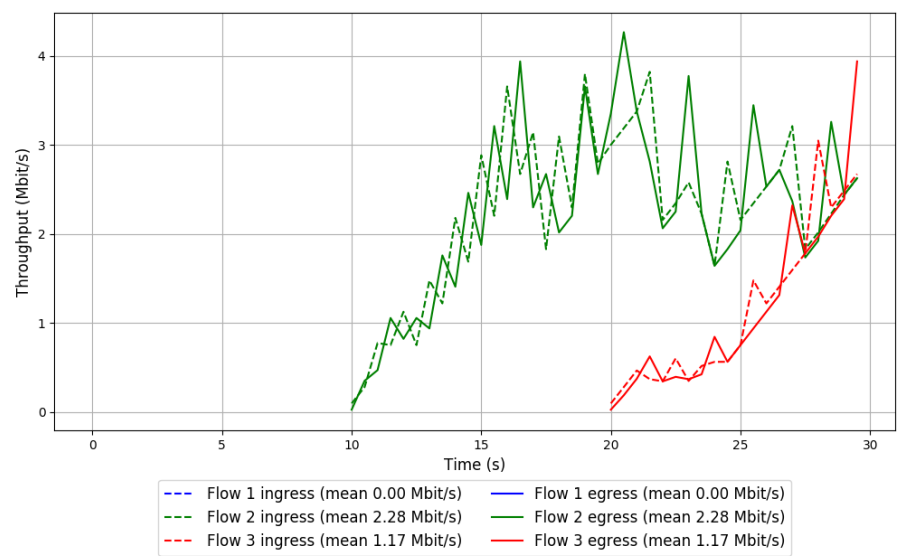
-- Flow 3:

Average throughput: 1.17 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



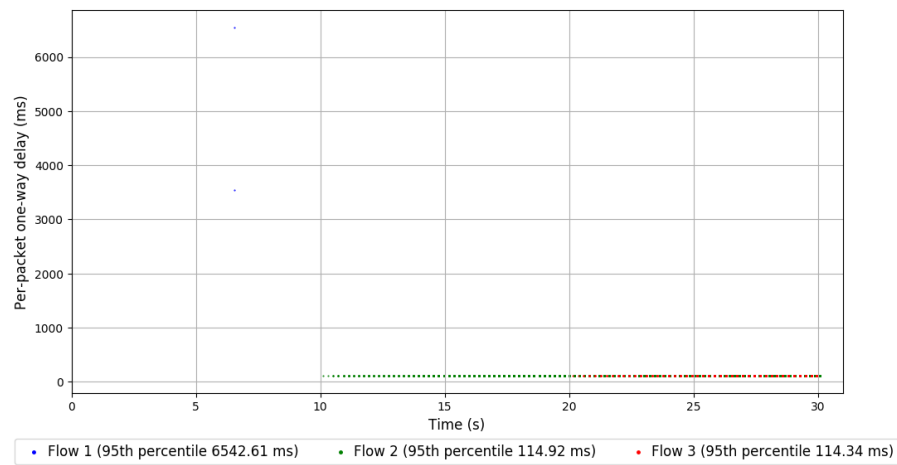
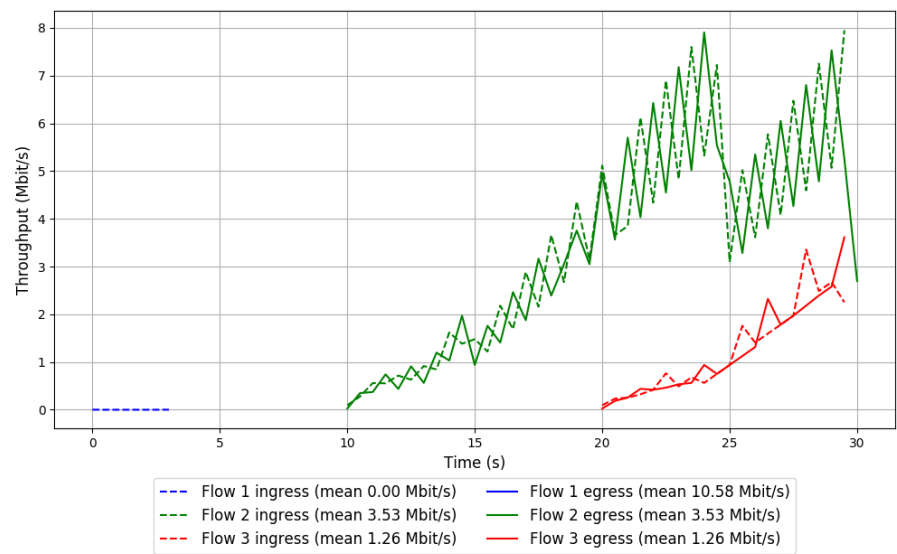
Run 9: Statistics of LEDBAT

Start at: 2017-10-12 07:40:06

End at: 2017-10-12 07:40:36



Run 9: Report of LEDBAT — Data Link

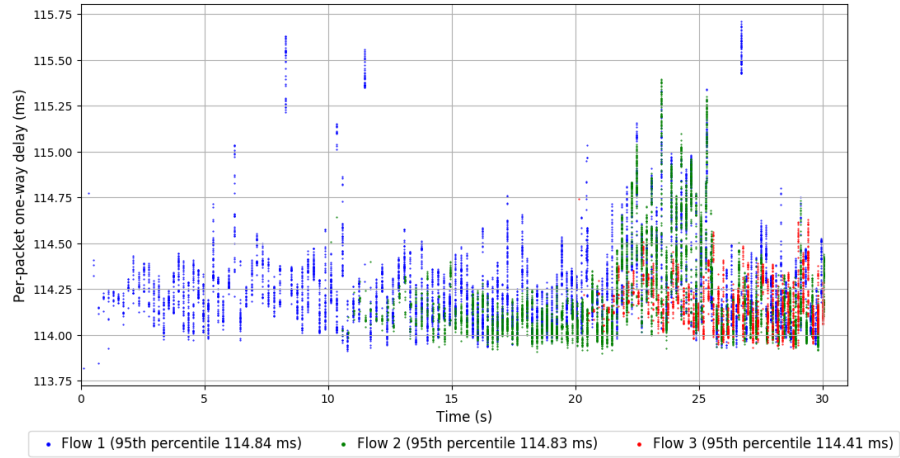
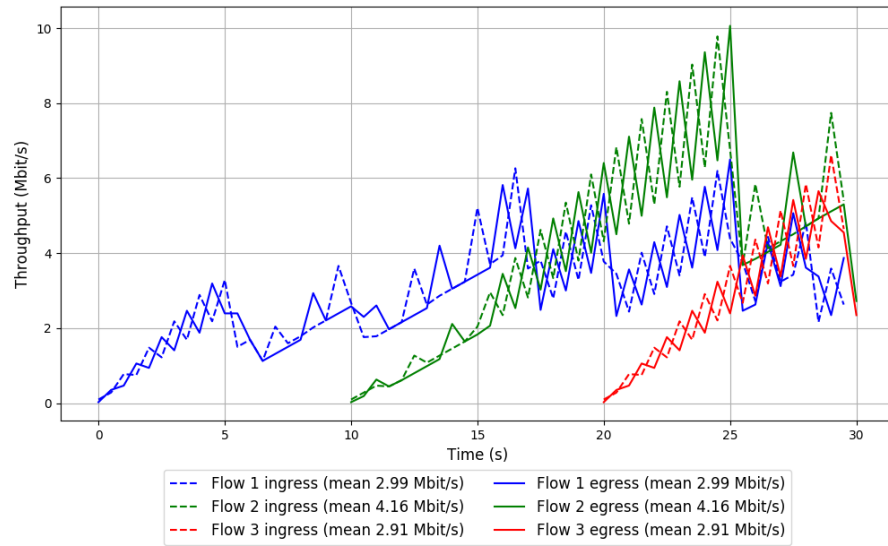


```
Run 10: Statistics of LEDBAT

Start at: 2017-10-12 07:53:52
End at: 2017-10-12 07:54:22

# Below is generated by plot.py at 2017-10-12 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 114.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 114.838 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 114.828 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 114.406 ms
Loss rate: 0.00%
```

# Run 10: Report of LEDBAT — Data Link

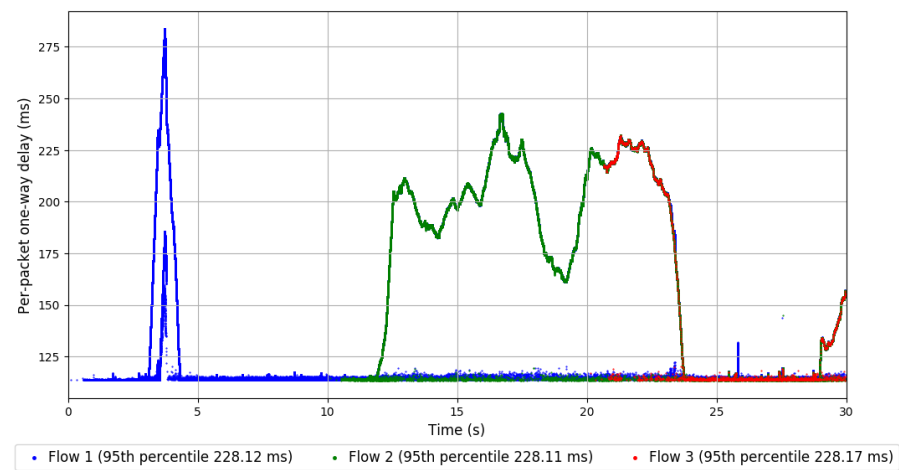
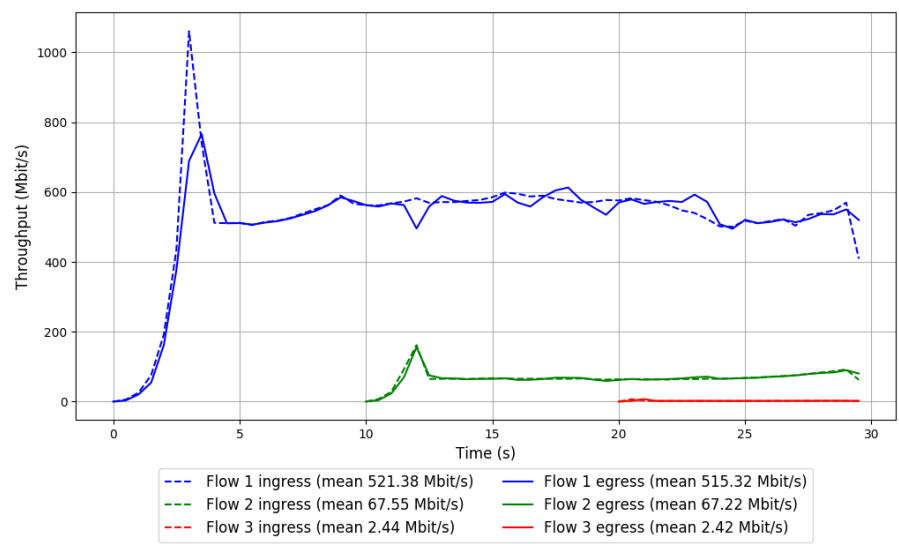


```
Run 1: Statistics of PCC

Start at: 2017-10-12 05:46:09
End at: 2017-10-12 05:46:39

# Below is generated by plot.py at 2017-10-12 09:01:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.79 Mbit/s
95th percentile per-packet one-way delay: 228.120 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 515.32 Mbit/s
95th percentile per-packet one-way delay: 228.121 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 67.22 Mbit/s
95th percentile per-packet one-way delay: 228.108 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 228.173 ms
Loss rate: 0.50%
```

Run 1: Report of PCC — Data Link

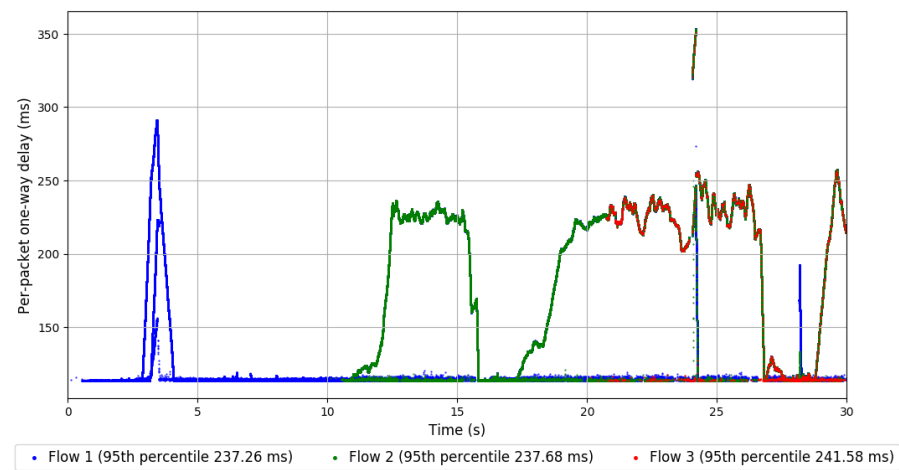
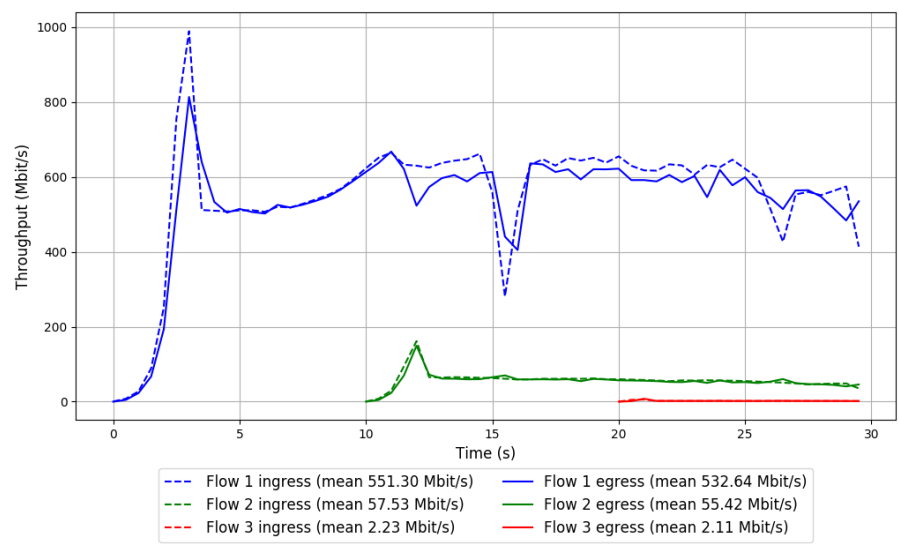


```
Run 2: Statistics of PCC

Start at: 2017-10-12 05:59:21
End at: 2017-10-12 05:59:51

# Below is generated by plot.py at 2017-10-12 09:01:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 570.15 Mbit/s
95th percentile per-packet one-way delay: 237.302 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 532.64 Mbit/s
95th percentile per-packet one-way delay: 237.259 ms
Loss rate: 3.38%
-- Flow 2:
Average throughput: 55.42 Mbit/s
95th percentile per-packet one-way delay: 237.681 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 241.577 ms
Loss rate: 5.49%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-12 06:12:49

End at: 2017-10-12 06:13:19

# Below is generated by plot.py at 2017-10-12 09:01:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 557.87 Mbit/s

95th percentile per-packet one-way delay: 225.438 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 498.04 Mbit/s

95th percentile per-packet one-way delay: 223.281 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 223.175 ms

Loss rate: 1.29%

-- Flow 3:

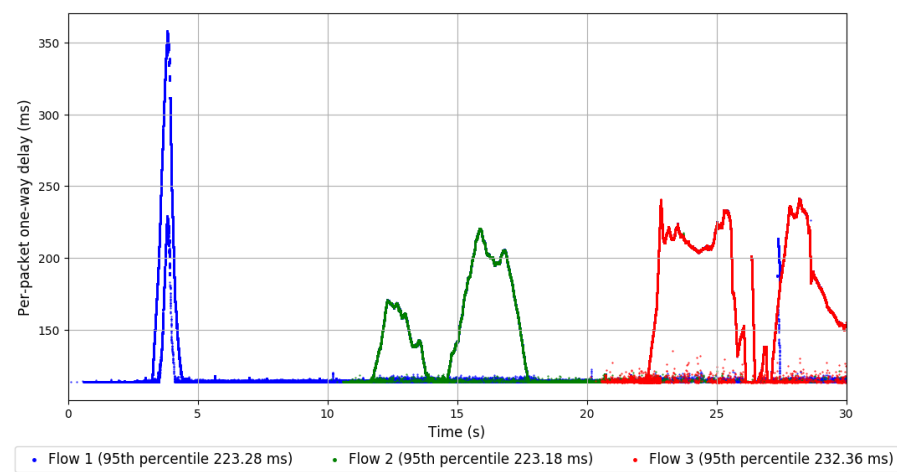
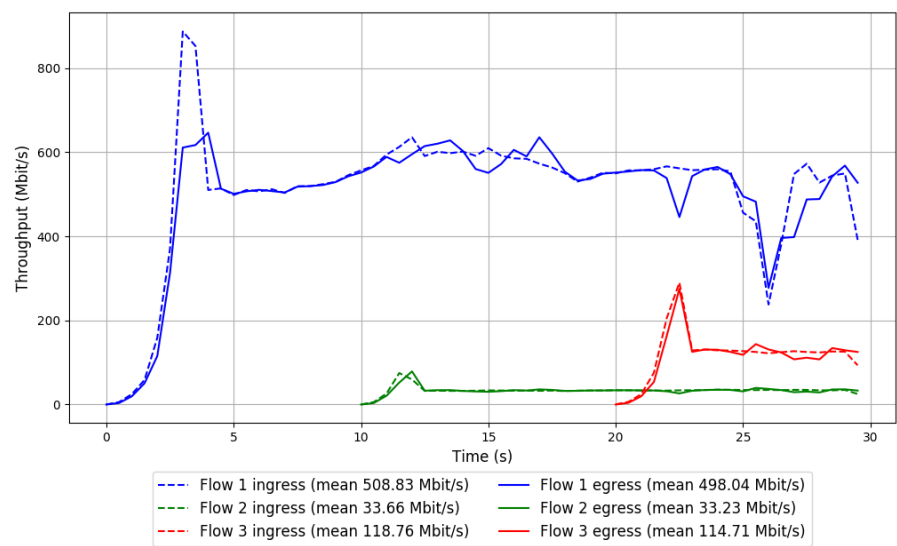
Average throughput: 114.71 Mbit/s

95th percentile per-packet one-way delay: 232.361 ms

Loss rate: 3.42%



Run 3: Report of PCC — Data Link

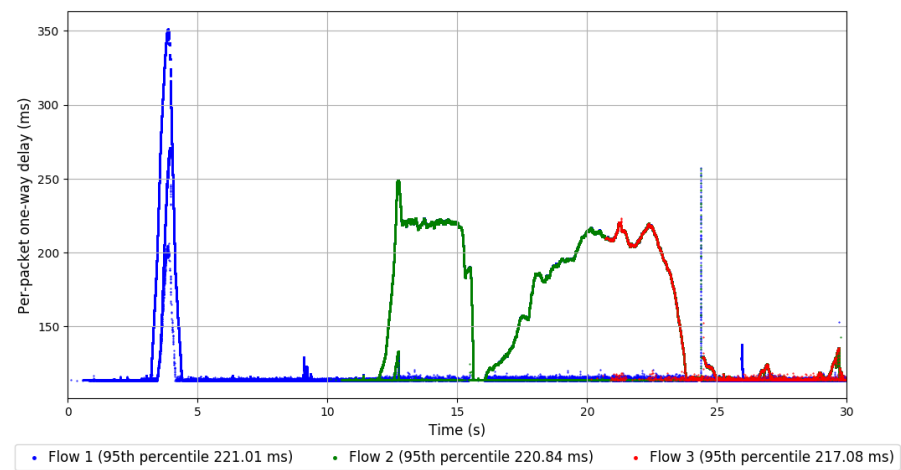
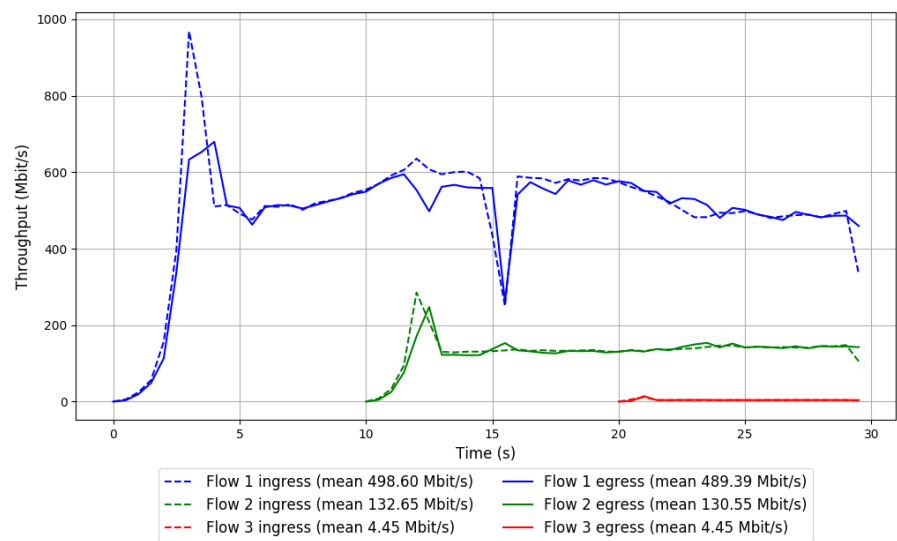


```
Run 4: Statistics of PCC

Start at: 2017-10-12 06:26:21
End at: 2017-10-12 06:26:51

# Below is generated by plot.py at 2017-10-12 09:01:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 577.65 Mbit/s
95th percentile per-packet one-way delay: 220.967 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 489.39 Mbit/s
95th percentile per-packet one-way delay: 221.012 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 130.55 Mbit/s
95th percentile per-packet one-way delay: 220.841 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 217.077 ms
Loss rate: 0.14%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-12 06:39:40

End at: 2017-10-12 06:40:10

# Below is generated by plot.py at 2017-10-12 09:02:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 557.14 Mbit/s

95th percentile per-packet one-way delay: 193.410 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 501.62 Mbit/s

95th percentile per-packet one-way delay: 194.464 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 189.358 ms

Loss rate: 0.40%

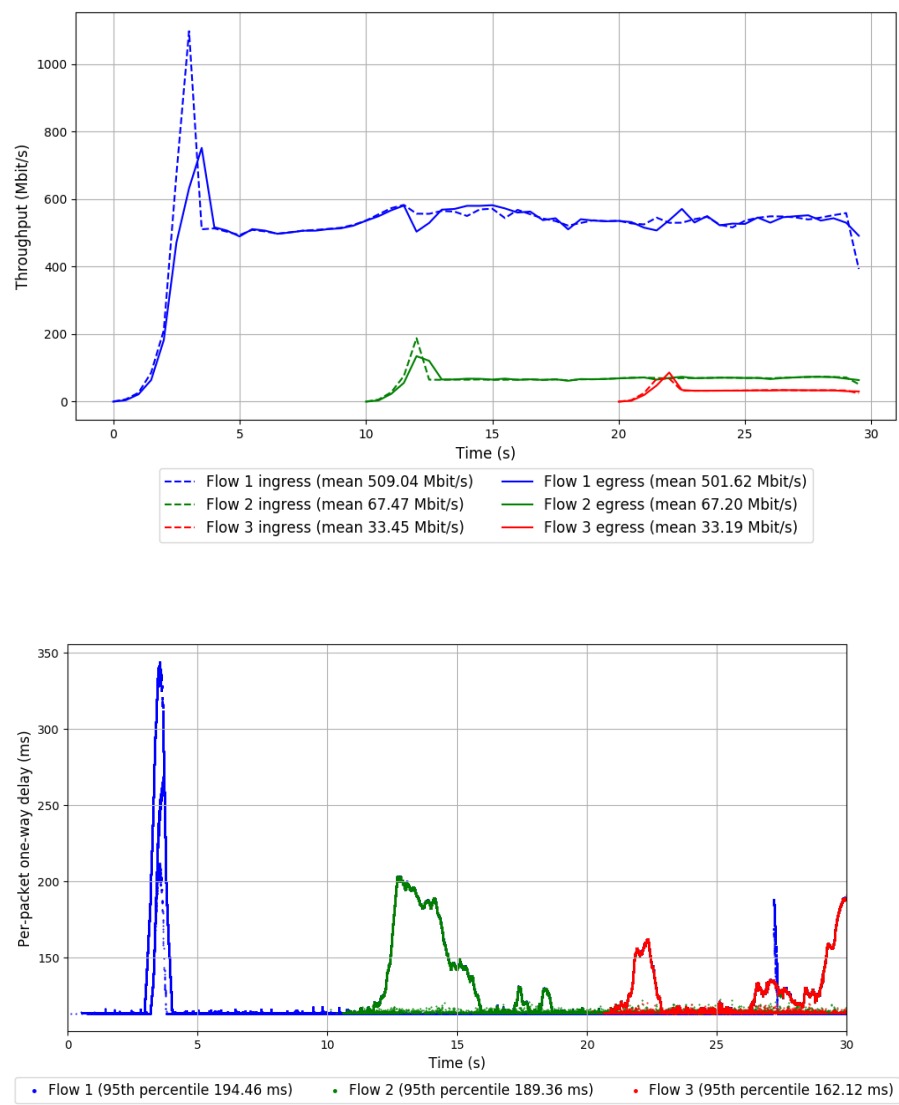
-- Flow 3:

Average throughput: 33.19 Mbit/s

95th percentile per-packet one-way delay: 162.116 ms

Loss rate: 0.78%

Run 5: Report of PCC — Data Link

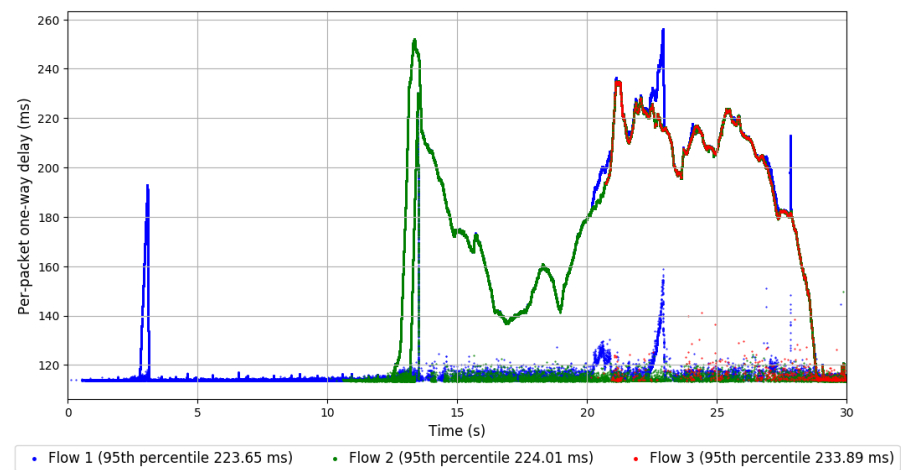
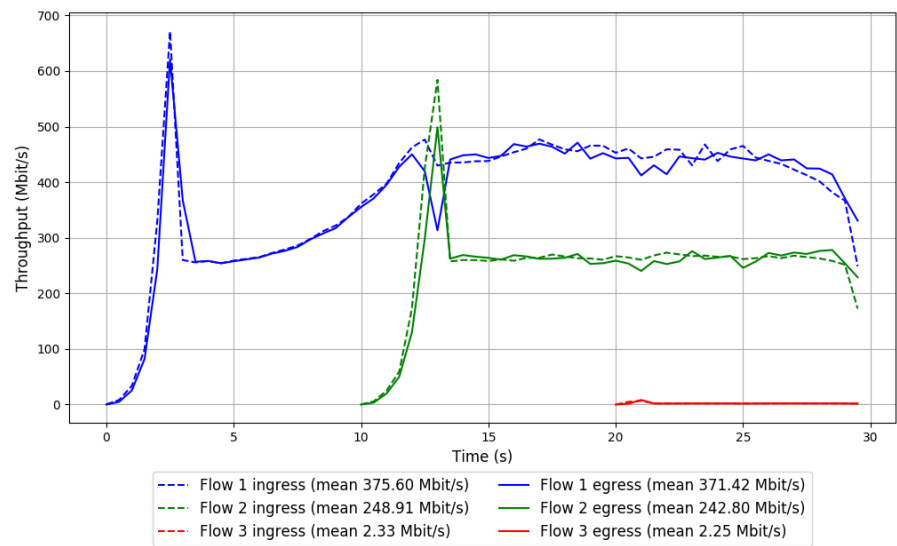


```
Run 6: Statistics of PCC

Start at: 2017-10-12 06:53:15
End at: 2017-10-12 06:53:45

# Below is generated by plot.py at 2017-10-12 09:02:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 533.58 Mbit/s
95th percentile per-packet one-way delay: 223.753 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 371.42 Mbit/s
95th percentile per-packet one-way delay: 223.645 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 242.80 Mbit/s
95th percentile per-packet one-way delay: 224.008 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 233.890 ms
Loss rate: 3.32%
```

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-12 07:06:42

End at: 2017-10-12 07:07:12

# Below is generated by plot.py at 2017-10-12 09:02:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 536.33 Mbit/s

95th percentile per-packet one-way delay: 228.393 ms

Loss rate: 2.77%

-- Flow 1:

Average throughput: 379.66 Mbit/s

95th percentile per-packet one-way delay: 228.141 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 131.94 Mbit/s

95th percentile per-packet one-way delay: 224.367 ms

Loss rate: 2.25%

-- Flow 3:

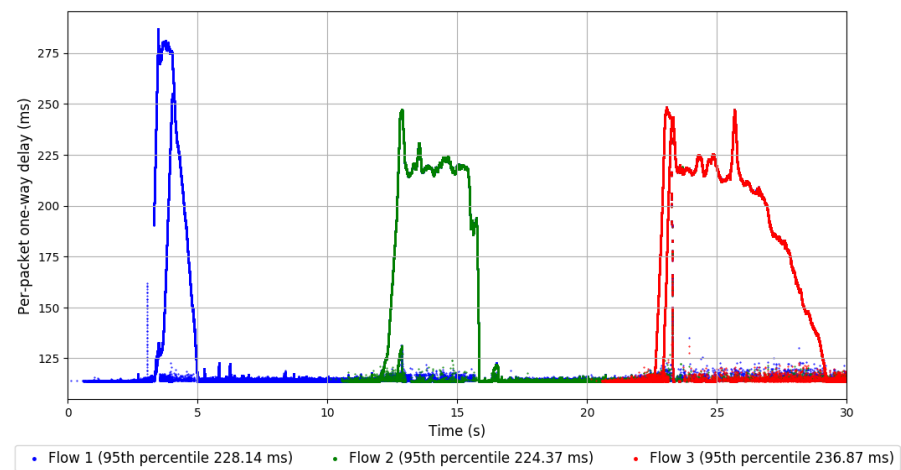
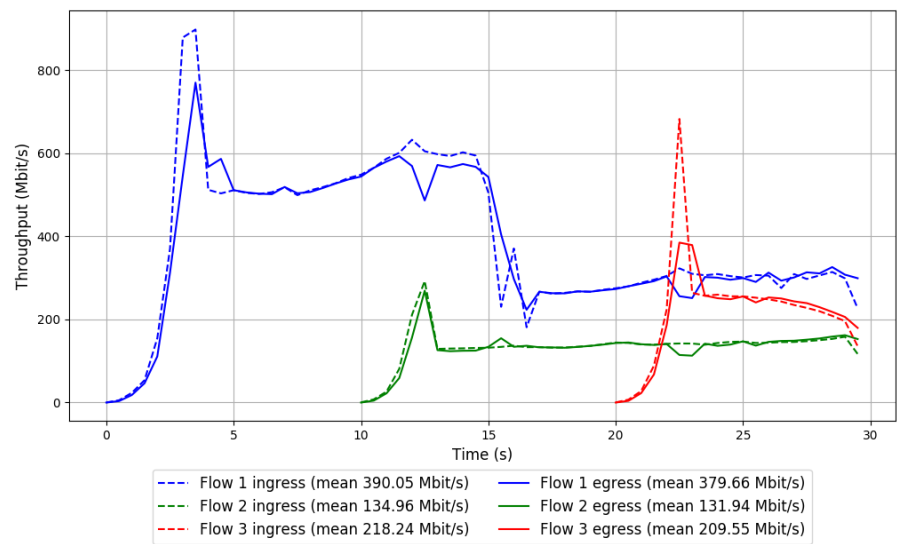
Average throughput: 209.55 Mbit/s

95th percentile per-packet one-way delay: 236.866 ms

Loss rate: 4.00%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-12 07:19:52

End at: 2017-10-12 07:20:22

# Below is generated by plot.py at 2017-10-12 09:04:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 575.65 Mbit/s

95th percentile per-packet one-way delay: 193.215 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 532.28 Mbit/s

95th percentile per-packet one-way delay: 192.948 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 33.61 Mbit/s

95th percentile per-packet one-way delay: 189.446 ms

Loss rate: 0.21%

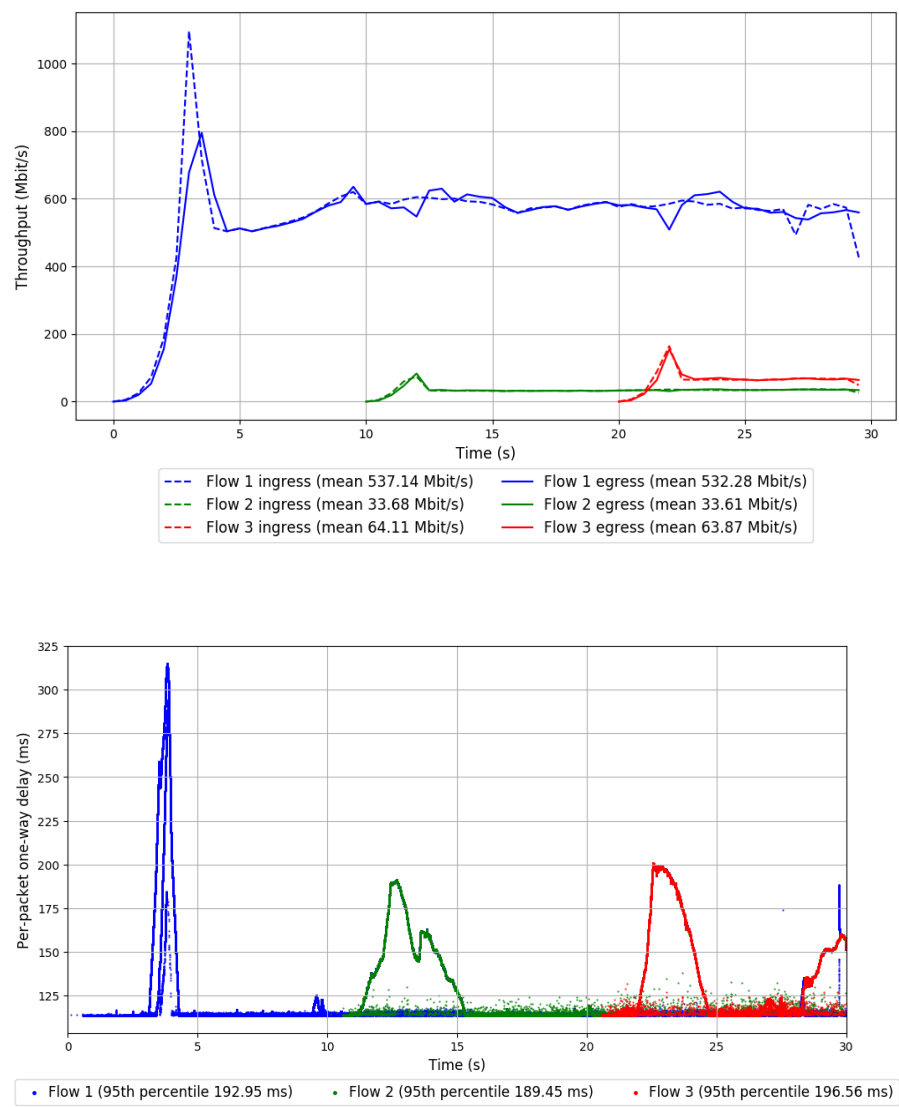
-- Flow 3:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 196.564 ms

Loss rate: 0.42%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-12 07:33:25

End at: 2017-10-12 07:33:55

# Below is generated by plot.py at 2017-10-12 09:11:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 552.61 Mbit/s

95th percentile per-packet one-way delay: 194.476 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 548.15 Mbit/s

95th percentile per-packet one-way delay: 194.341 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 184.037 ms

Loss rate: 0.01%

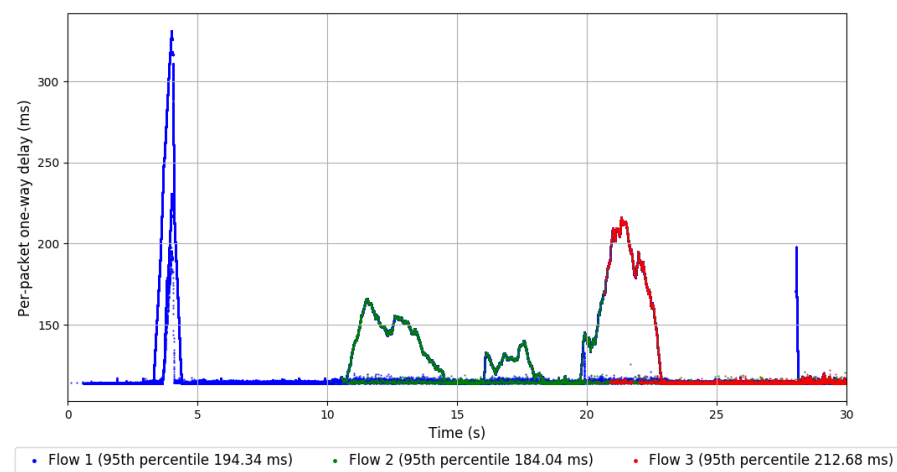
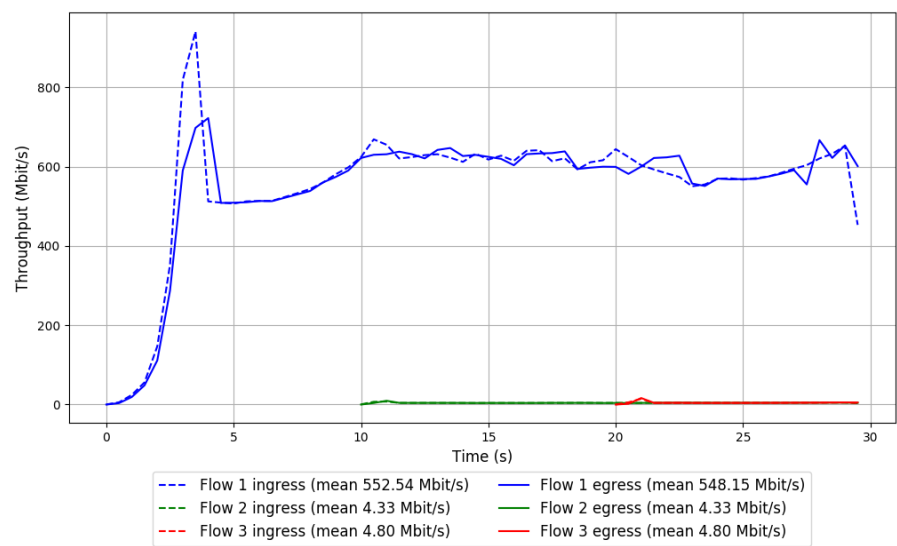
-- Flow 3:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 212.681 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-12 07:46:58

End at: 2017-10-12 07:47:28

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 562.44 Mbit/s

95th percentile per-packet one-way delay: 236.114 ms

Loss rate: 4.71%

-- Flow 1:

Average throughput: 481.78 Mbit/s

95th percentile per-packet one-way delay: 237.071 ms

Loss rate: 4.99%

-- Flow 2:

Average throughput: 120.25 Mbit/s

95th percentile per-packet one-way delay: 231.762 ms

Loss rate: 2.97%

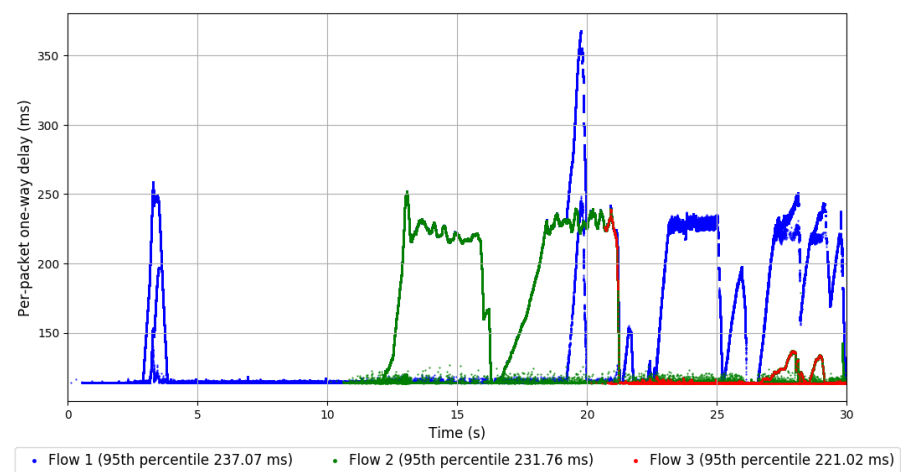
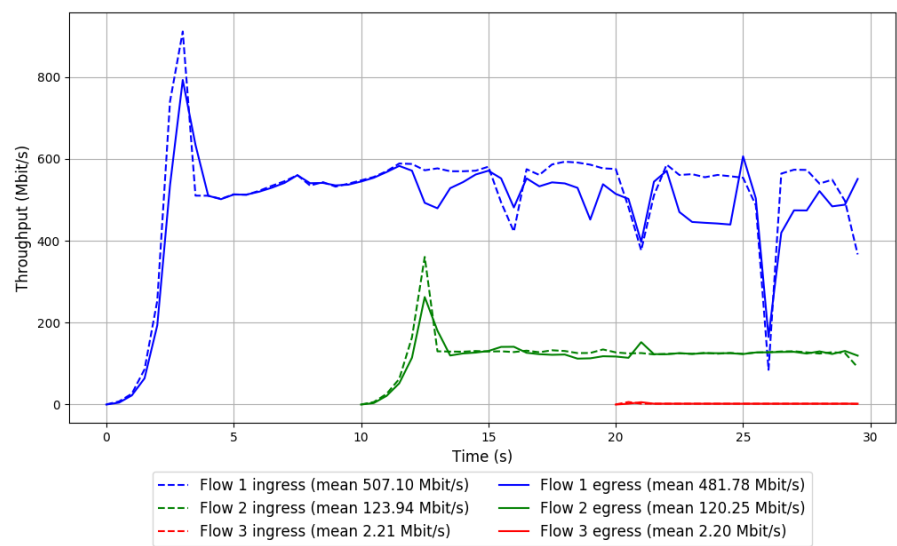
-- Flow 3:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 221.022 ms

Loss rate: 0.39%

Run 10: Report of PCC — Data Link



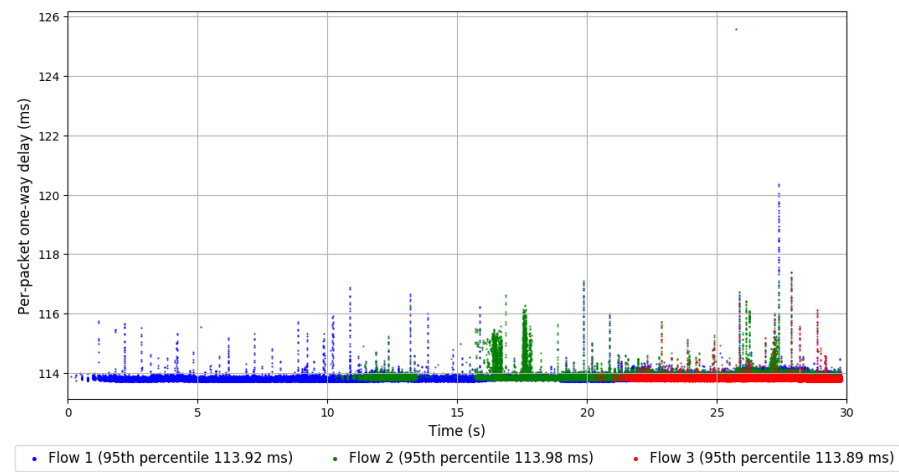
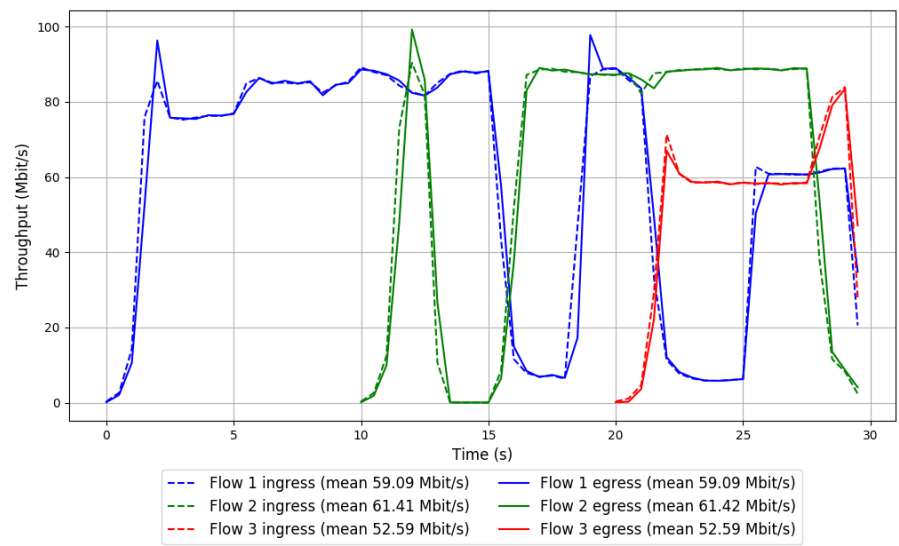
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-12 05:54:14
End at: 2017-10-12 05:54:44

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.88 Mbit/s
95th percentile per-packet one-way delay: 113.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 113.925 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 113.984 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 113.886 ms
Loss rate: 0.00%
```



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-12 06:07:42

End at: 2017-10-12 06:08:12

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 113.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.58 Mbit/s

95th percentile per-packet one-way delay: 113.627 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 114.005 ms

Loss rate: 0.00%

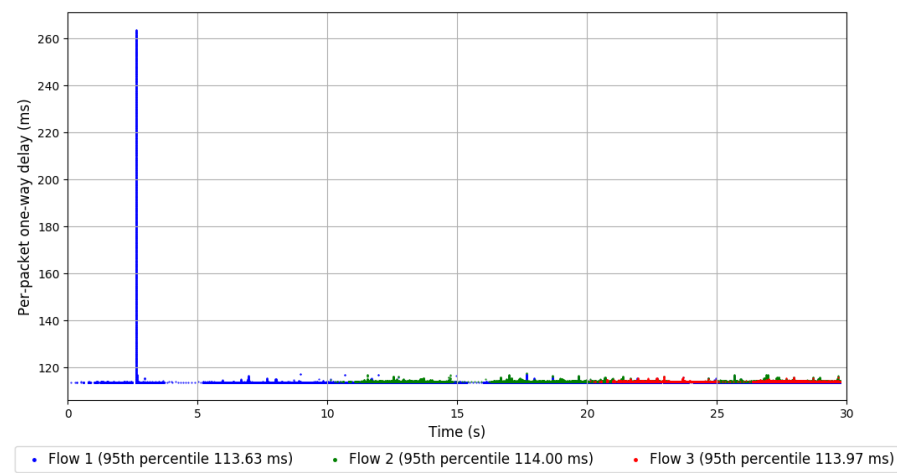
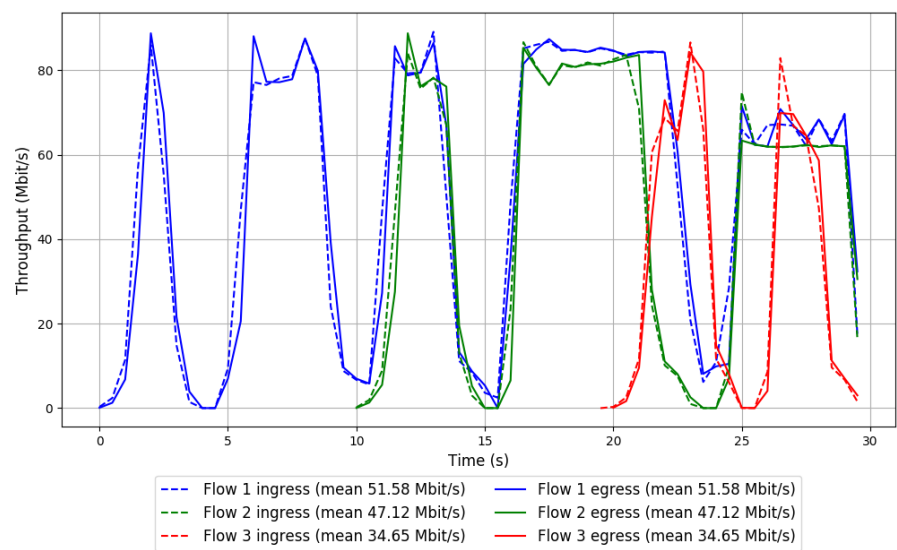
-- Flow 3:

Average throughput: 34.65 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-12 06:21:13

End at: 2017-10-12 06:21:43

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 113.882 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 41.52 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 66.72 Mbit/s

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

Loss rate: 0.01%

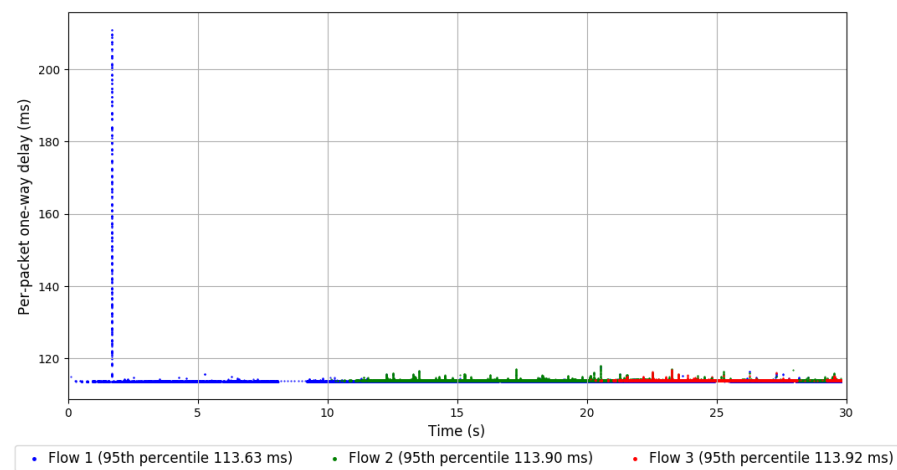
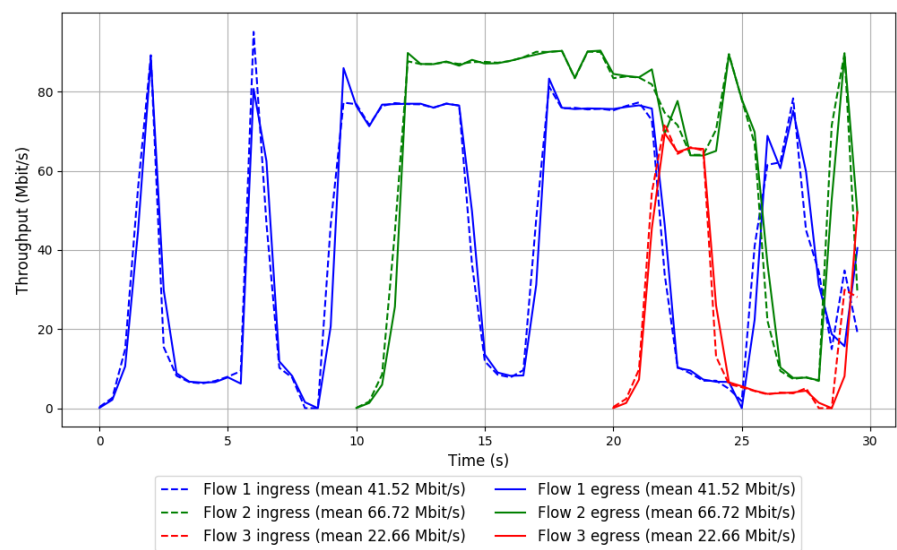
-- Flow 3:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 113.923 ms

Loss rate: 0.08%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-12 06:34:39

End at: 2017-10-12 06:35:09

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 113.30 Mbit/s

95th percentile per-packet one-way delay: 113.946 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 113.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.55 Mbit/s

95th percentile per-packet one-way delay: 113.992 ms

Loss rate: 0.00%

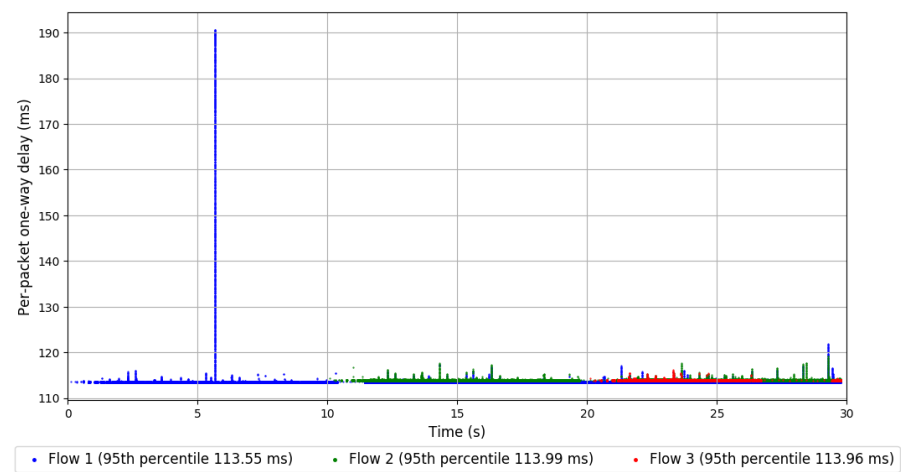
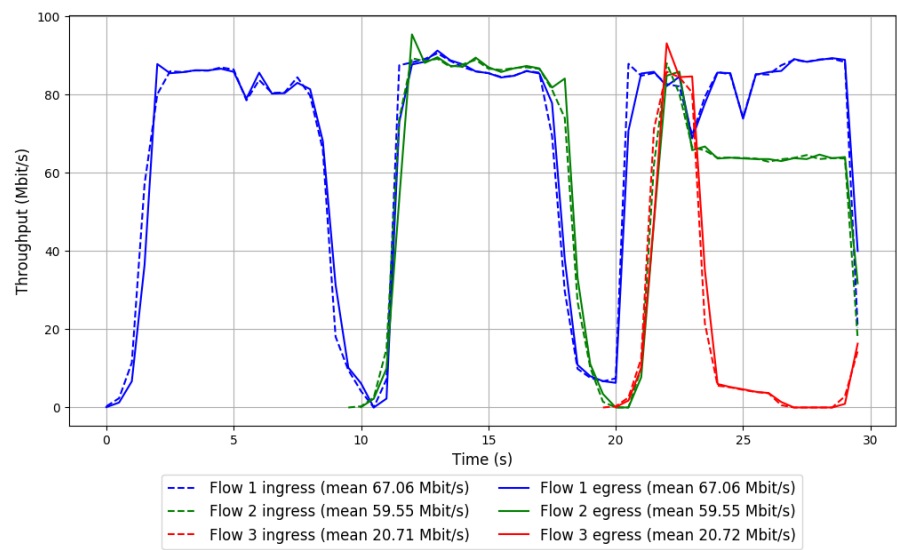
-- Flow 3:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 113.956 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-12 06:48:04

End at: 2017-10-12 06:48:34

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 101.71 Mbit/s

95th percentile per-packet one-way delay: 113.957 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 60.45 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 51.66 Mbit/s

95th percentile per-packet one-way delay: 113.962 ms

Loss rate: 0.03%

-- Flow 3:

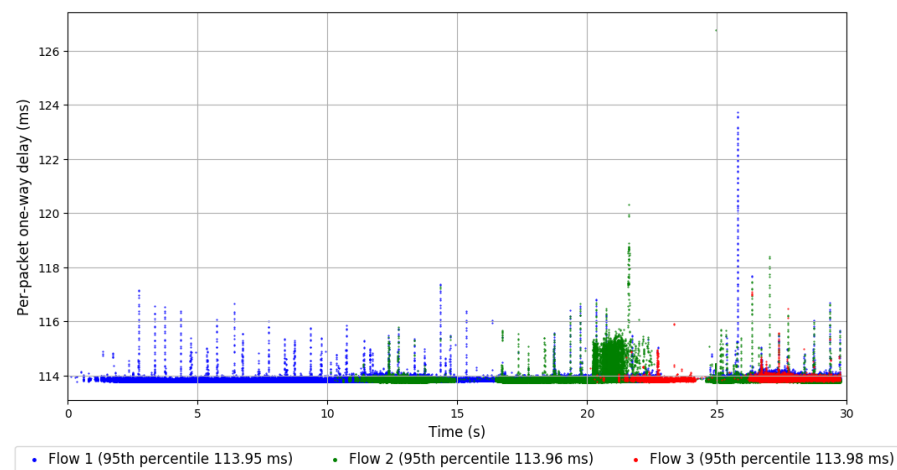
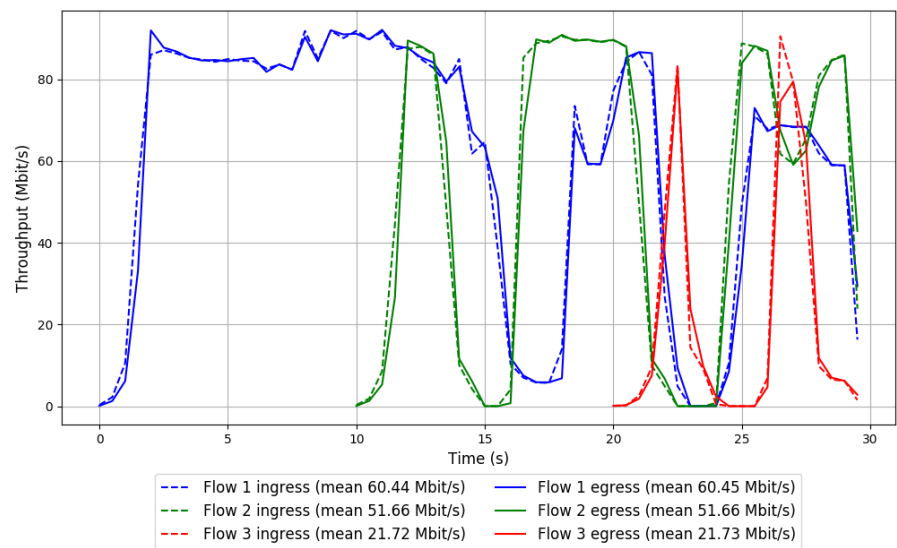
Average throughput: 21.73 Mbit/s

95th percentile per-packet one-way delay: 113.983 ms

Loss rate: 0.01%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-12 07:01:37

End at: 2017-10-12 07:02:07

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 114.027 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 114.001 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 114.065 ms

Loss rate: 0.00%

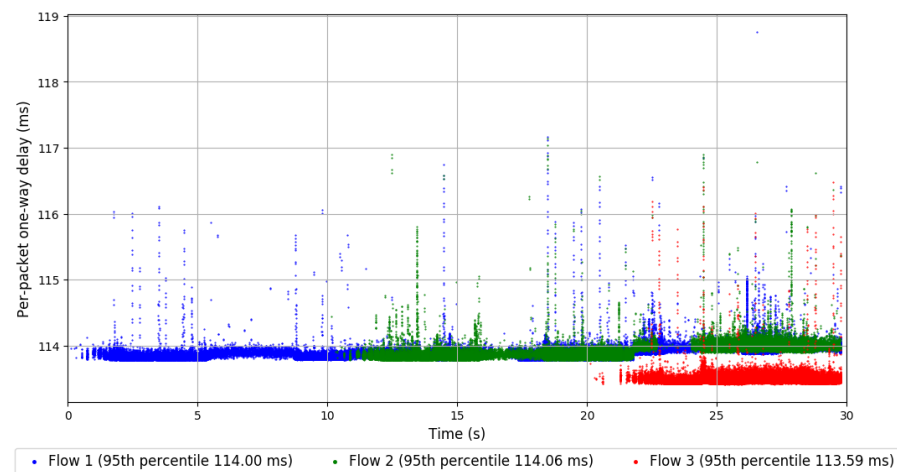
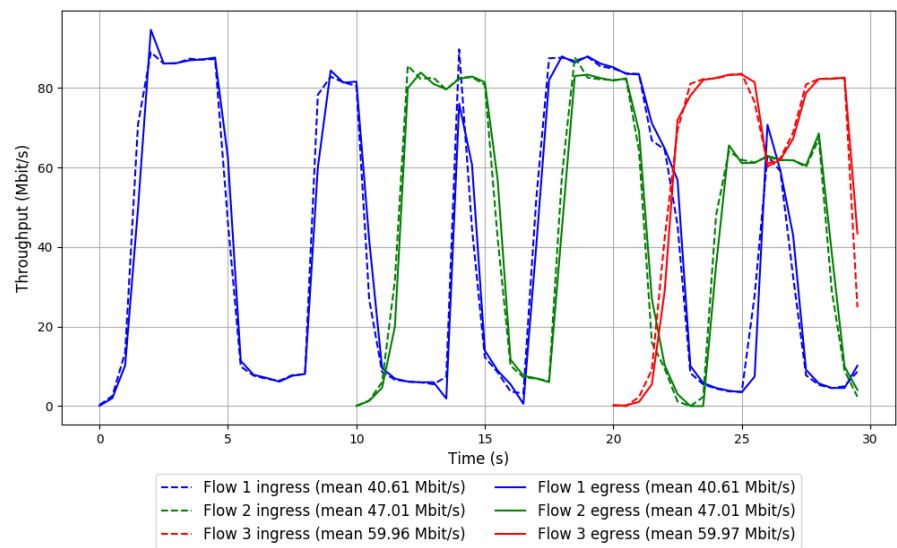
-- Flow 3:

Average throughput: 59.97 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-12 07:14:44

End at: 2017-10-12 07:15:14

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 126.35 Mbit/s

95th percentile per-packet one-way delay: 113.985 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 113.893 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.70 Mbit/s

95th percentile per-packet one-way delay: 113.791 ms

Loss rate: 0.00%

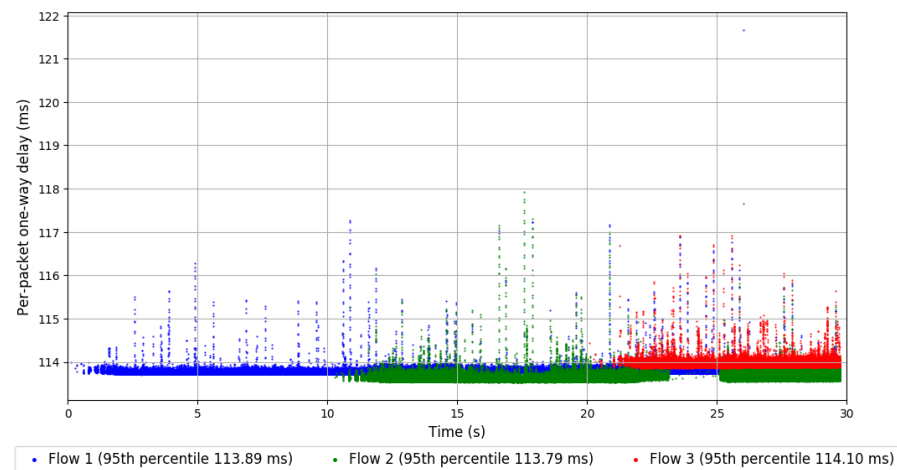
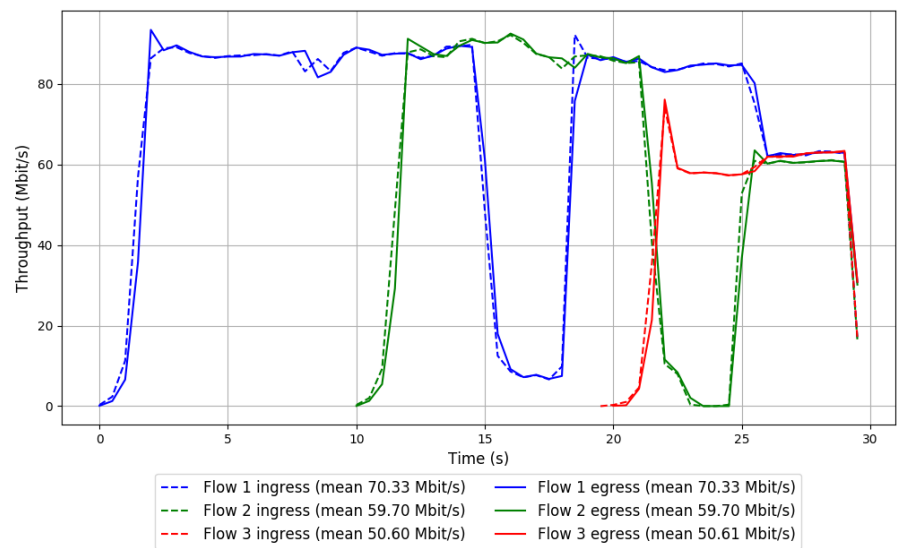
-- Flow 3:

Average throughput: 50.61 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-12 07:28:16

End at: 2017-10-12 07:28:46

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 115.73 Mbit/s

95th percentile per-packet one-way delay: 114.063 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 113.745 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.23 Mbit/s

95th percentile per-packet one-way delay: 114.115 ms

Loss rate: 0.00%

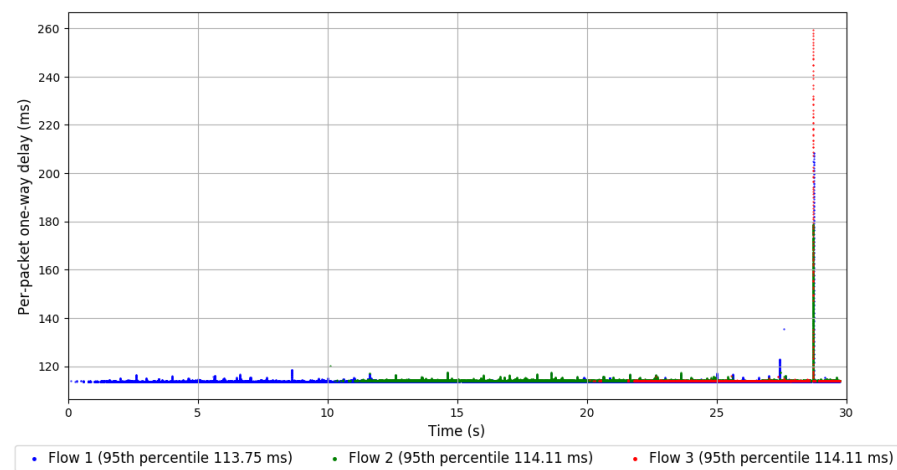
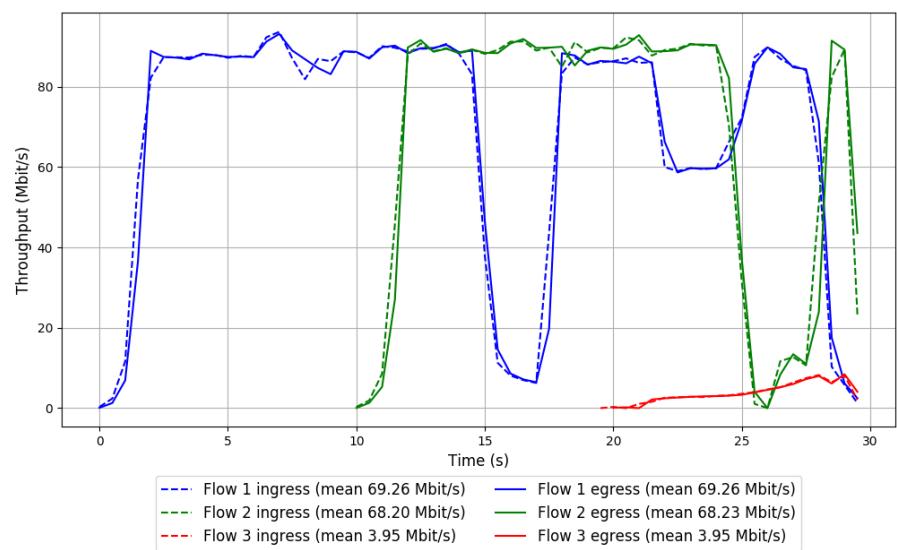
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 114.111 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-12 07:41:44

End at: 2017-10-12 07:42:14

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 125.53 Mbit/s

95th percentile per-packet one-way delay: 113.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 113.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.67 Mbit/s

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

Loss rate: 0.00%

-- Flow 3:

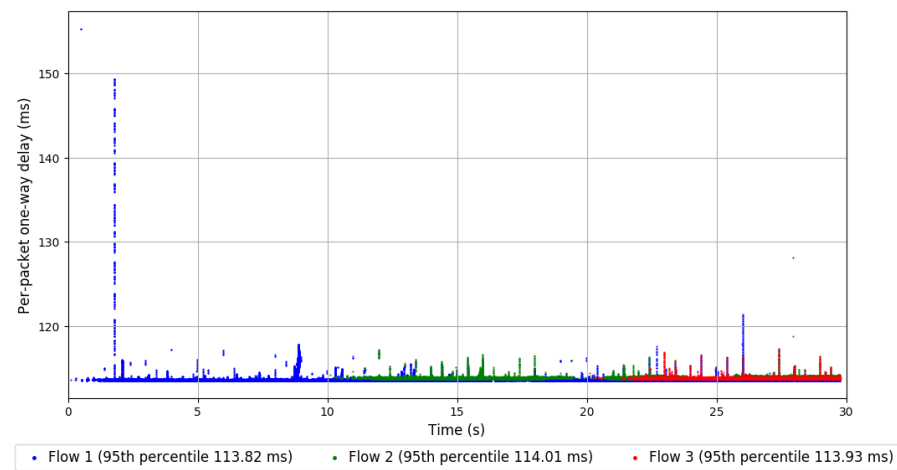
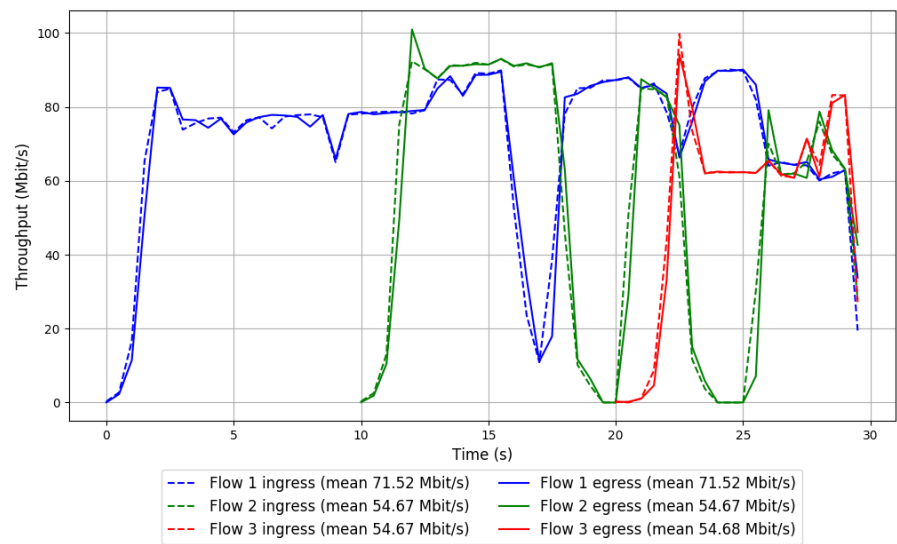
Average throughput: 54.68 Mbit/s

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

Loss rate: 0.00%



Run 9: Report of QUIC Cubic — Data Link

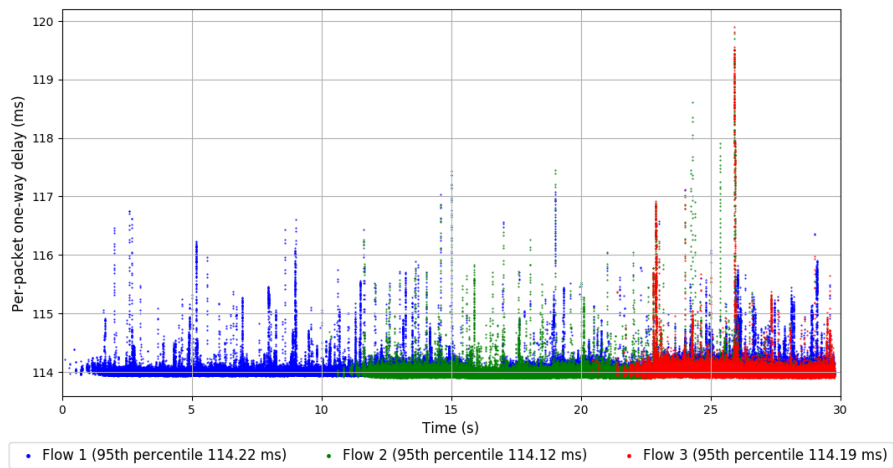
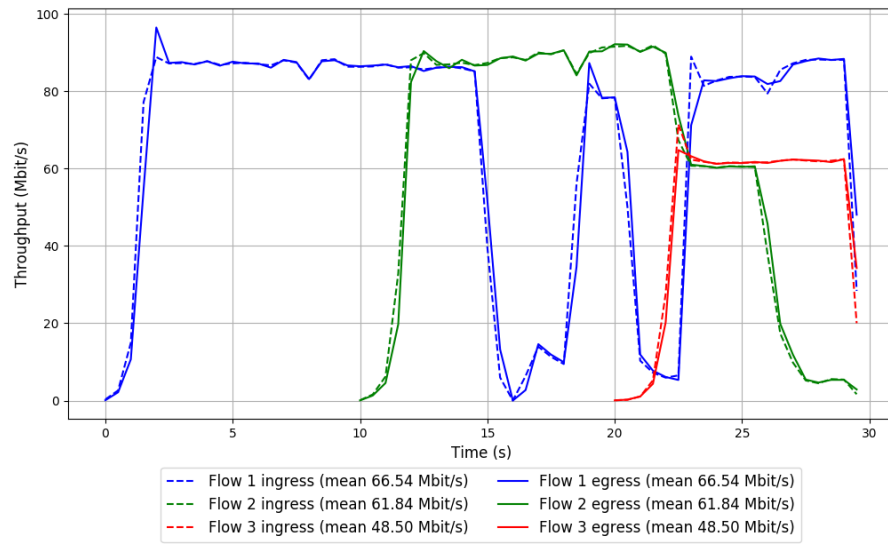


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-12 07:55:31
End at: 2017-10-12 07:56:01

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.13 Mbit/s
95th percentile per-packet one-way delay: 114.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.54 Mbit/s
95th percentile per-packet one-way delay: 114.215 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 114.118 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.50 Mbit/s
95th percentile per-packet one-way delay: 114.186 ms
Loss rate: 0.00%
```

# Run 10: Report of QUIC Cubic — Data Link

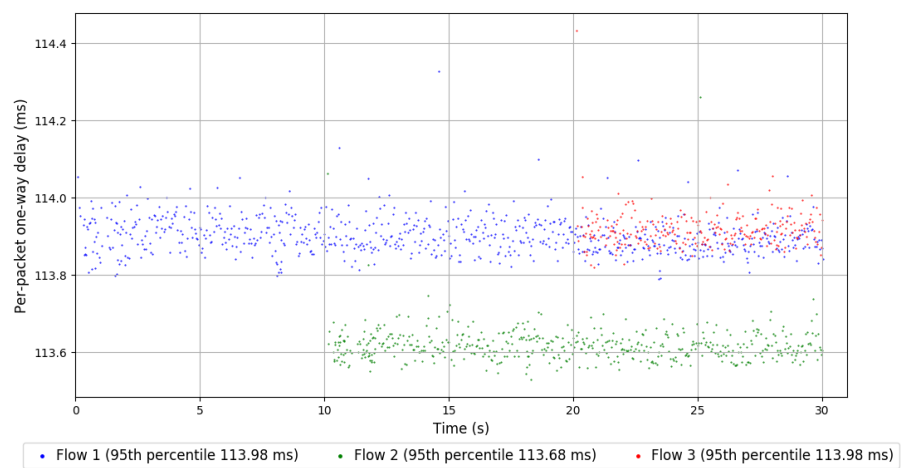
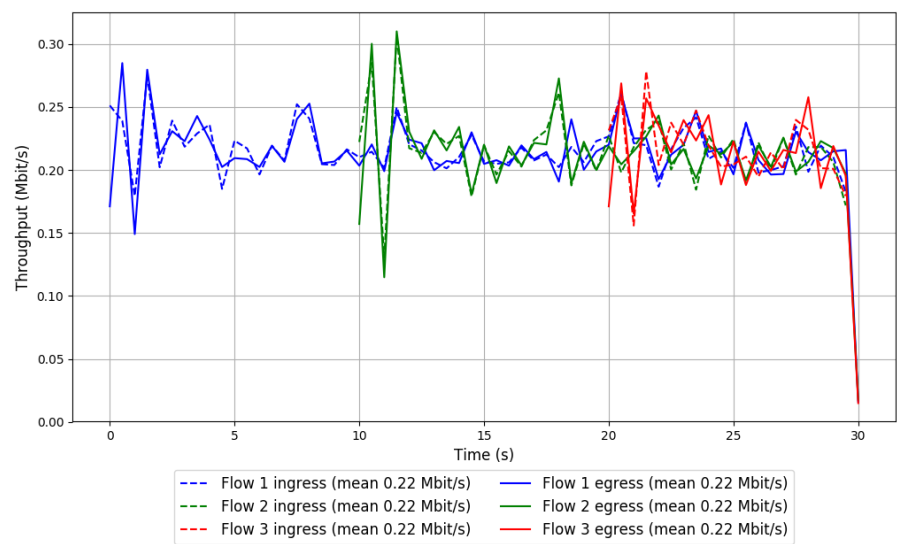


```
Run 1: Statistics of SCReAM

Start at: 2017-10-12 05:43:13
End at: 2017-10-12 05:43:43

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 113.972 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.978 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.680 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.985 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

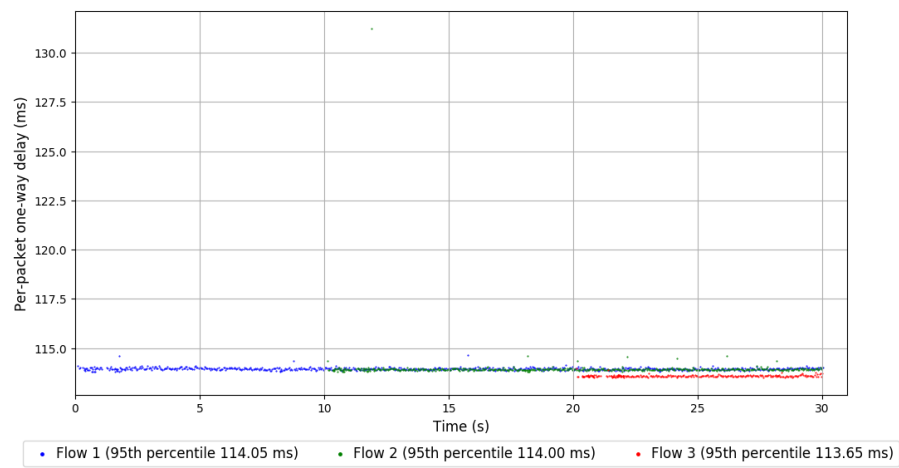
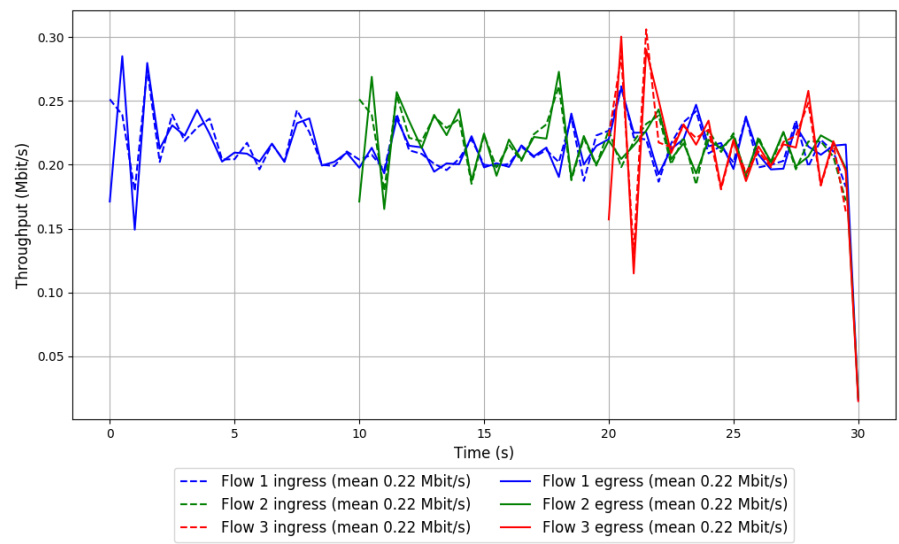


```
Run 2: Statistics of SReAM

Start at: 2017-10-12 05:56:31
End at: 2017-10-12 05:57:01

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.045 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.996 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.654 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-12 06:09:55

End at: 2017-10-12 06:10:25

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 114.020 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.956 ms

Loss rate: 0.00%

-- Flow 3:

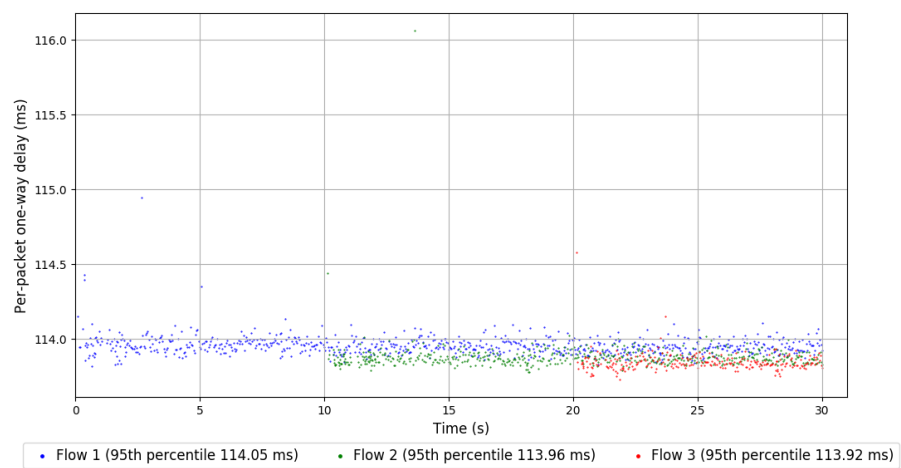
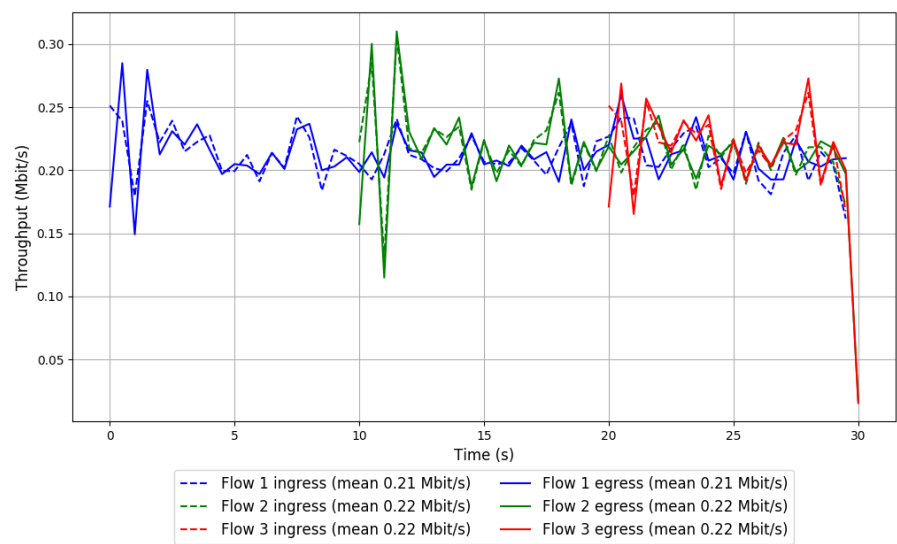
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.915 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

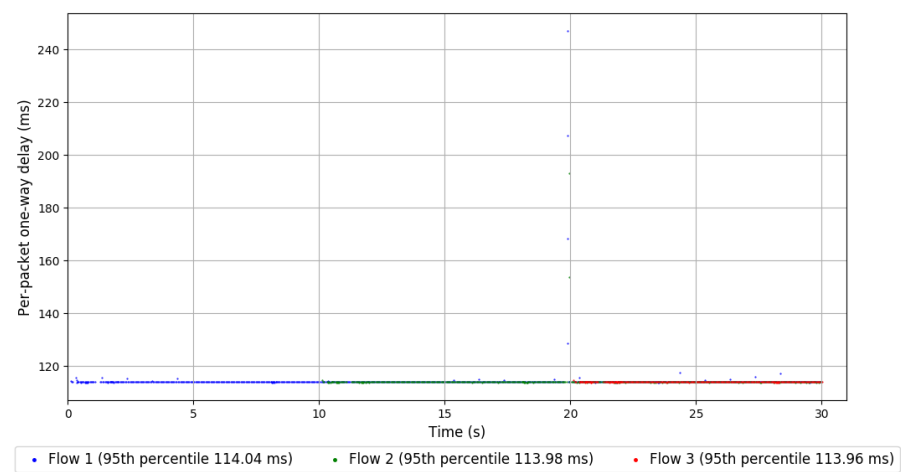
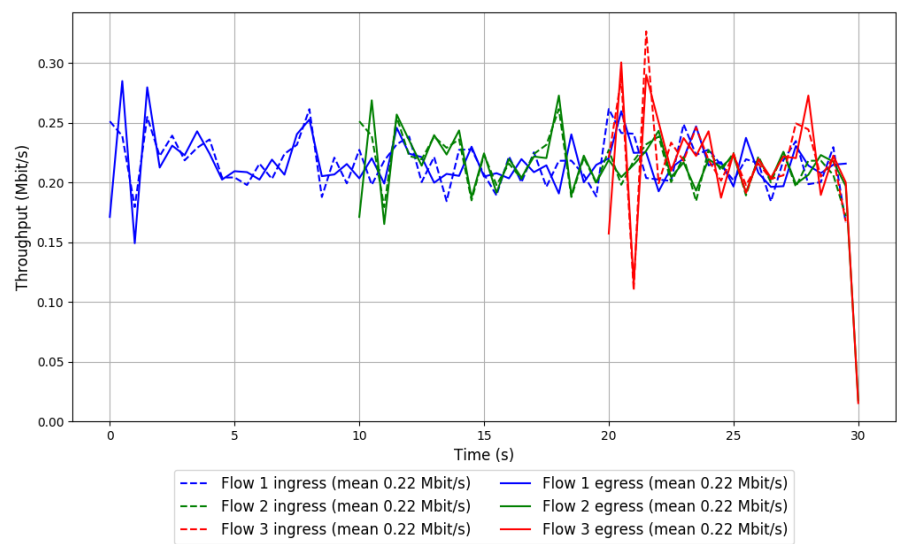


```
Run 4: Statistics of SReAM

Start at: 2017-10-12 06:23:25
End at: 2017-10-12 06:23:55

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.040 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.958 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-10-12 06:36:51

End at: 2017-10-12 06:37:21

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.928 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.724 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

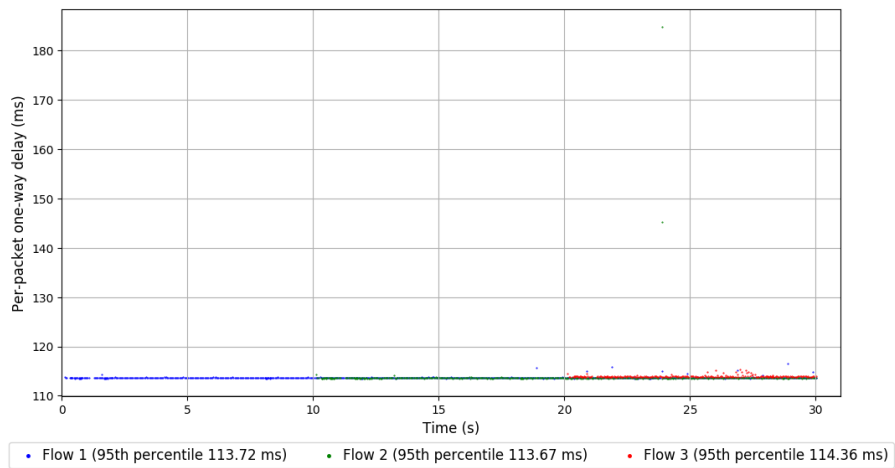
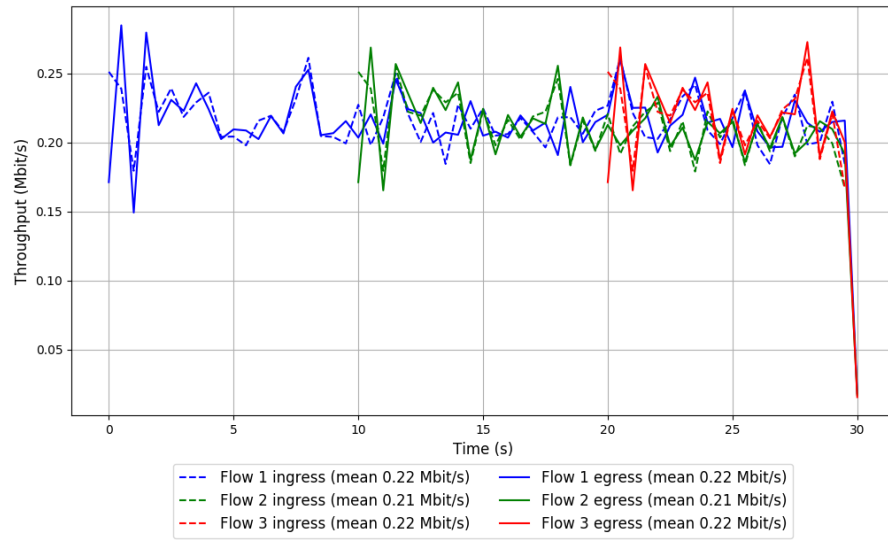
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.360 ms

Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-12 06:50:19

End at: 2017-10-12 06:50:49

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.173 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.792 ms

Loss rate: 0.00%

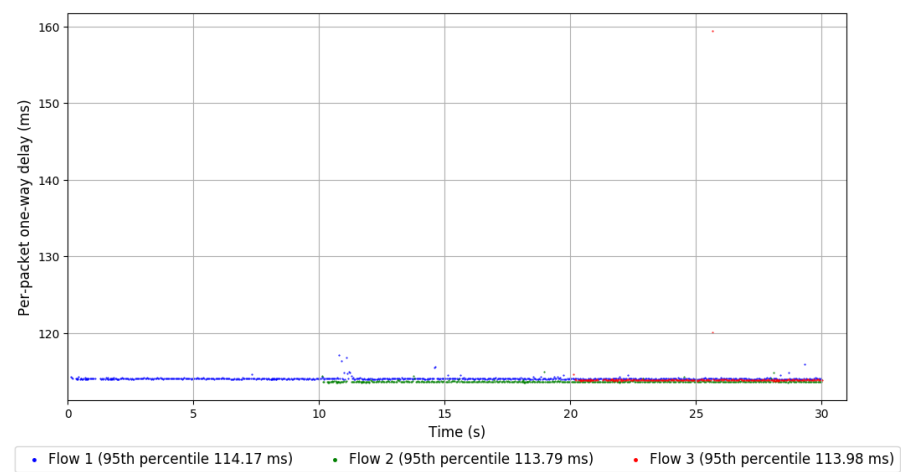
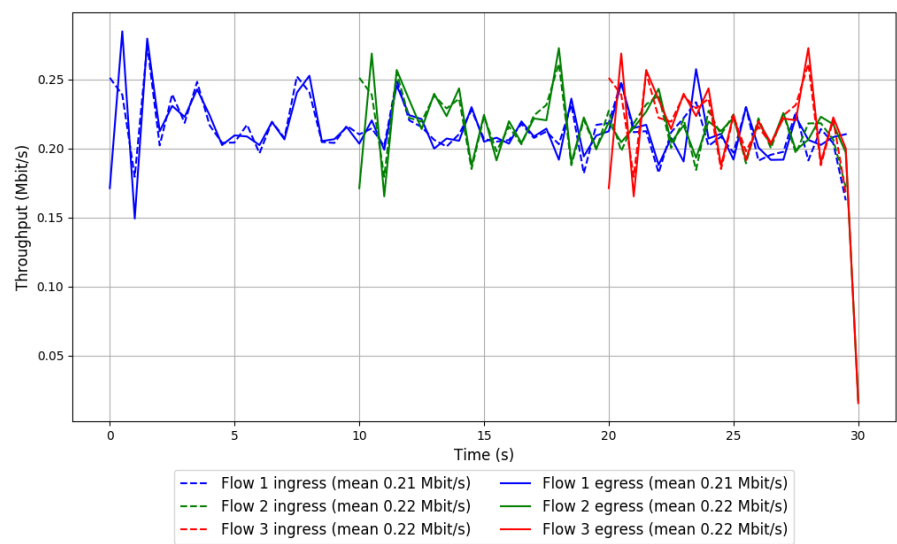
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.979 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



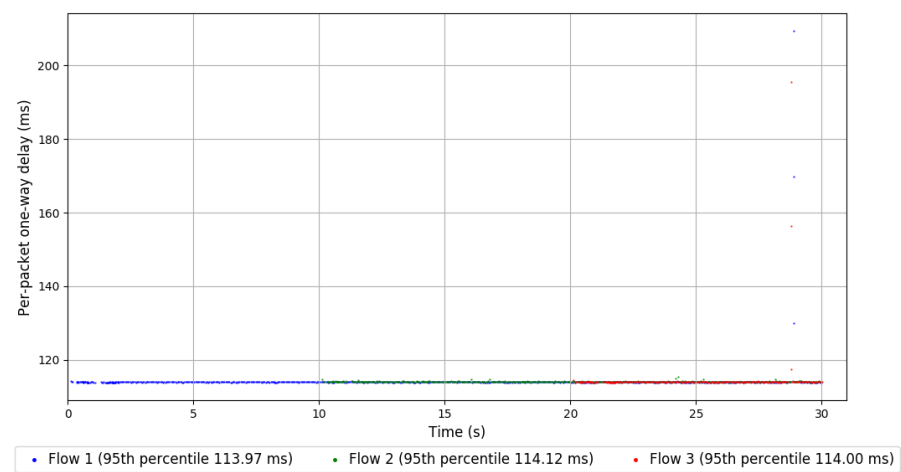
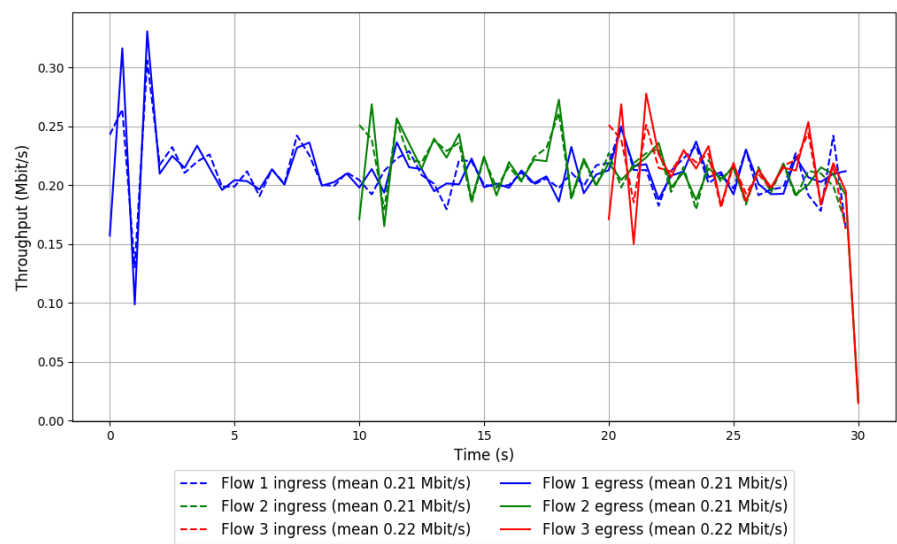
```
Run 7: Statistics of SReAM

Start at: 2017-10-12 07:03:46
End at: 2017-10-12 07:04:16

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.970 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.124 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.003 ms
Loss rate: 0.00%
```



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-12 07:17:01

End at: 2017-10-12 07:17:31

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.992 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.007 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.667 ms

Loss rate: 0.00%

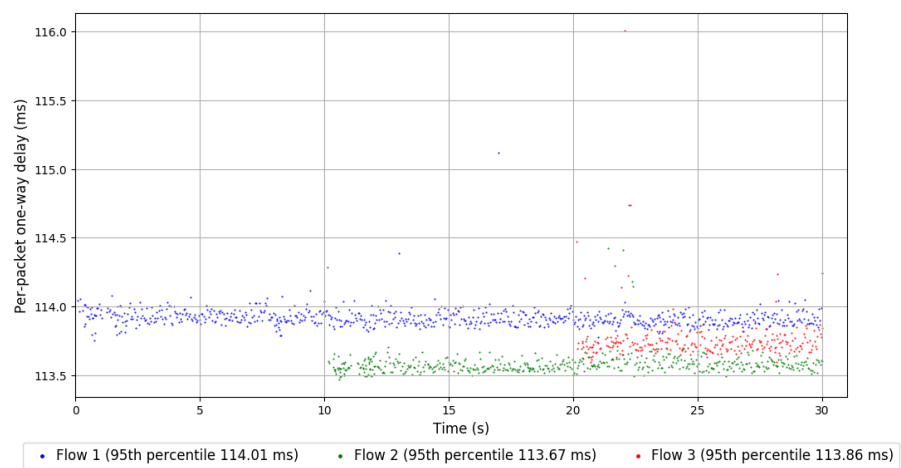
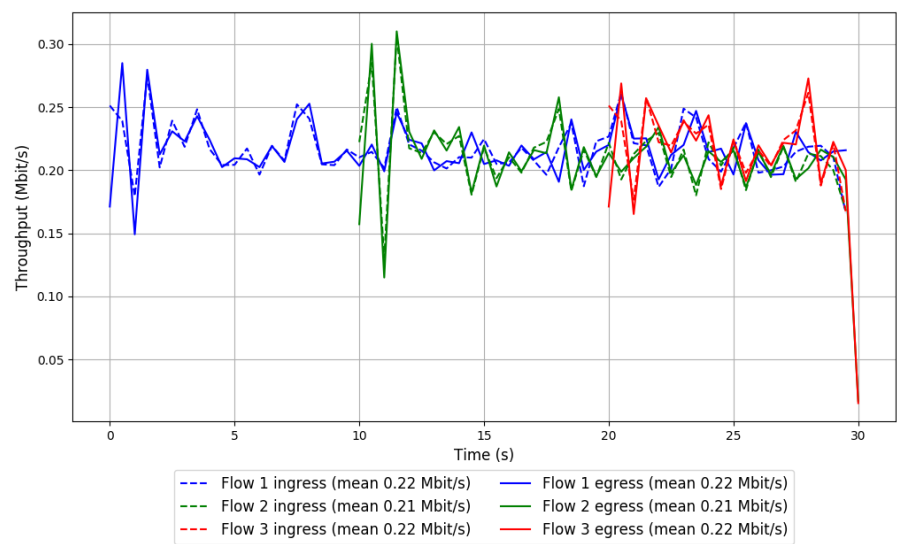
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.864 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-10-12 07:30:34

End at: 2017-10-12 07:31:04

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 114.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.222 ms

Loss rate: 0.00%

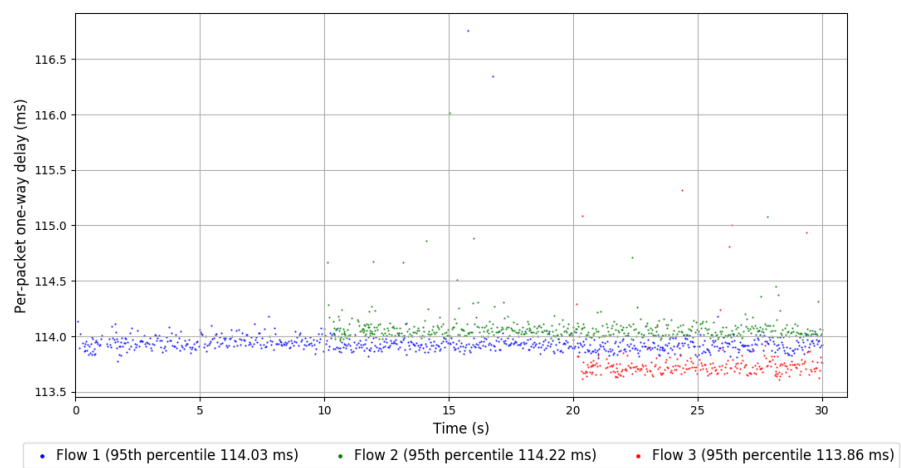
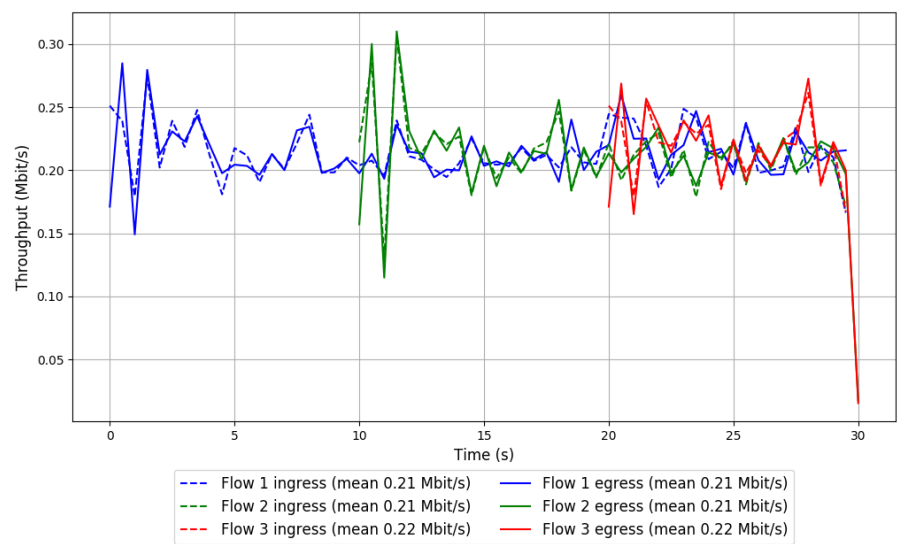
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.855 ms

Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

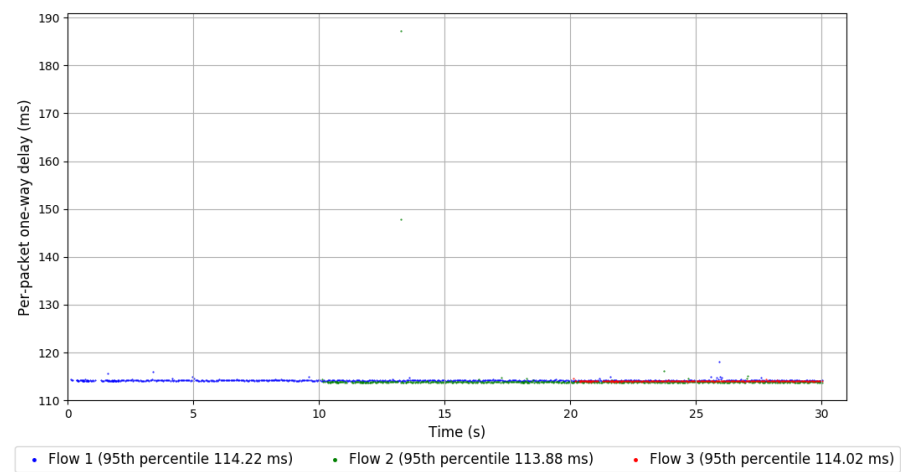
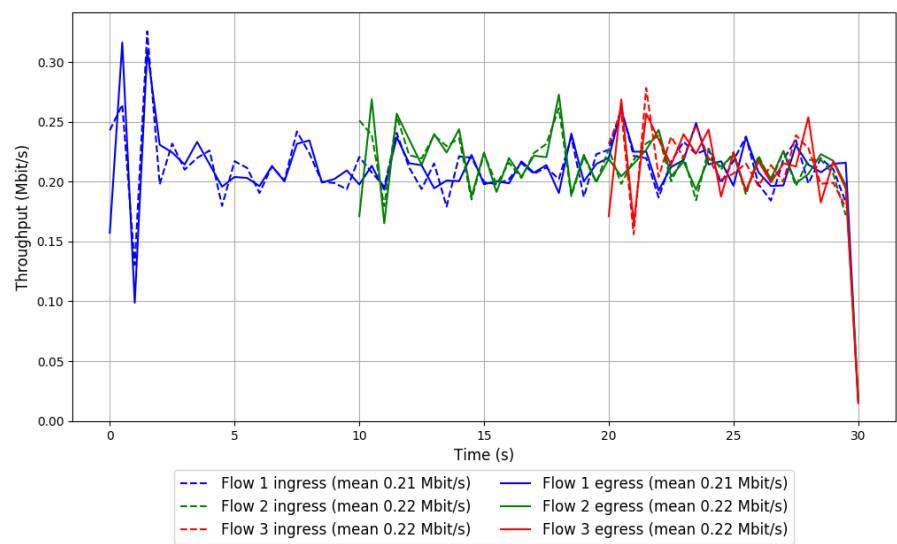


```
Run 10: Statistics of SCReAM

Start at: 2017-10-12 07:44:02
End at: 2017-10-12 07:44:32

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.019 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link



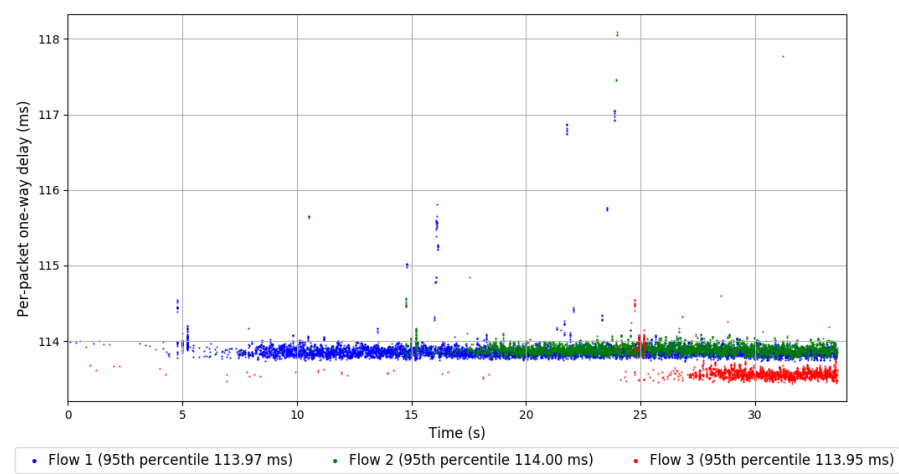
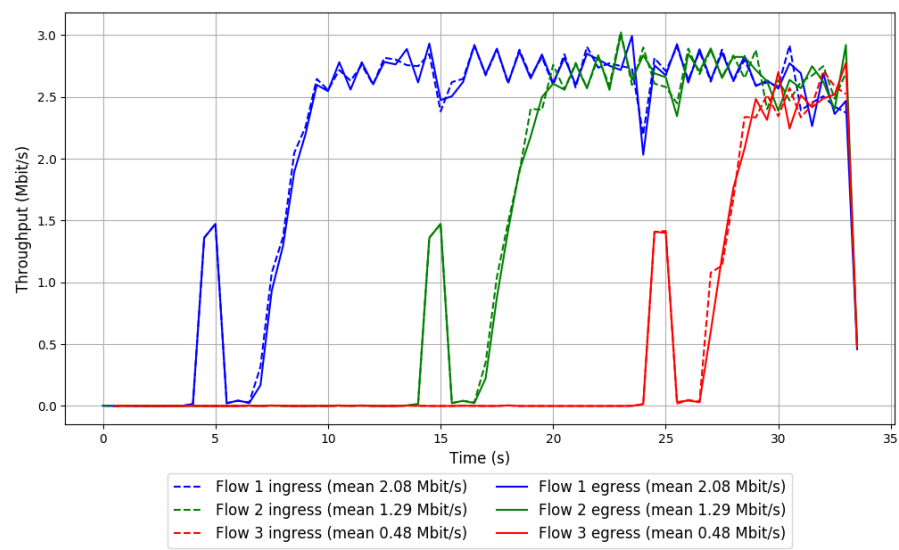
```
Run 1: Statistics of WebRTC media

Start at: 2017-10-12 05:48:08
End at: 2017-10-12 05:48:38

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 113.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 113.968 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 113.996 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 113.946 ms
Loss rate: 0.00%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-12 06:01:41

End at: 2017-10-12 06:02:11

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 113.960 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 113.676 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 114.070 ms

Loss rate: 0.00%

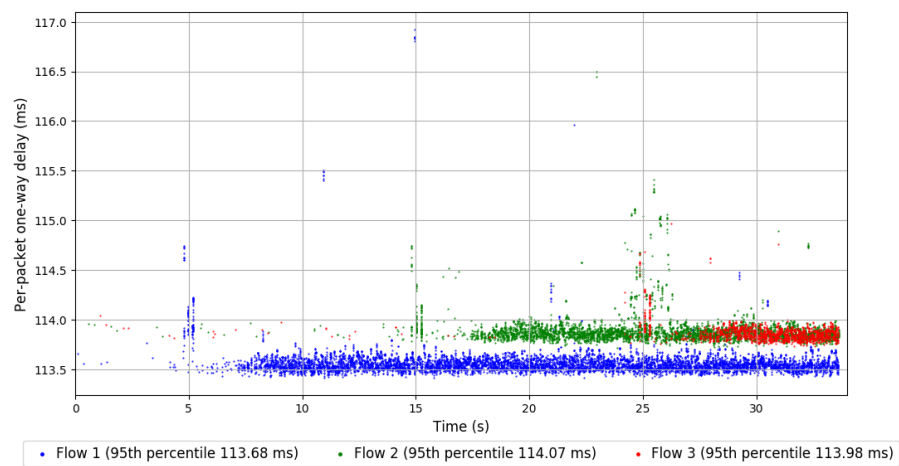
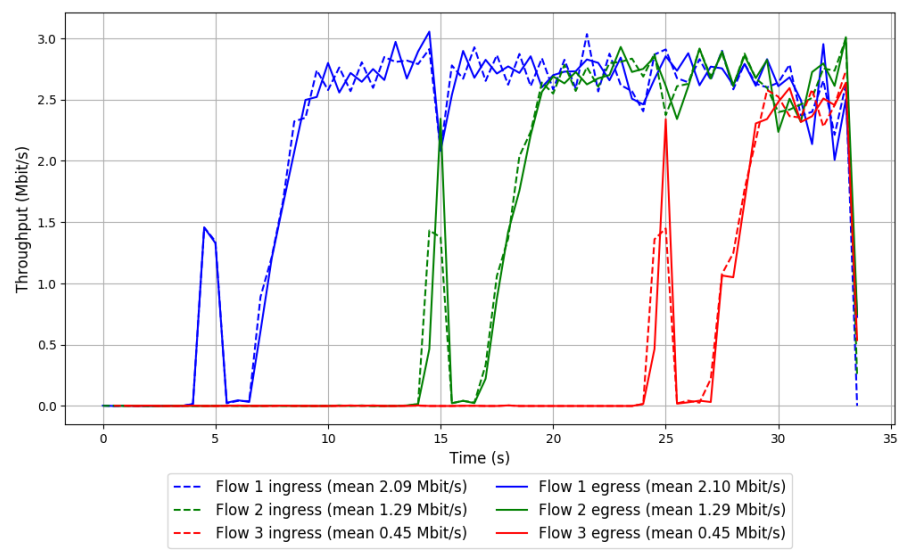
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 113.984 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-12 06:15:03

End at: 2017-10-12 06:15:33

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 114.083 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 113.709 ms

Loss rate: 0.00%

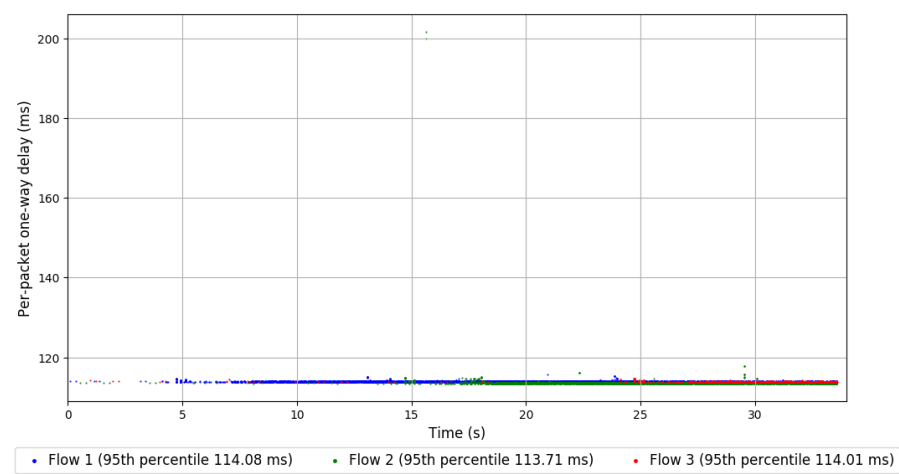
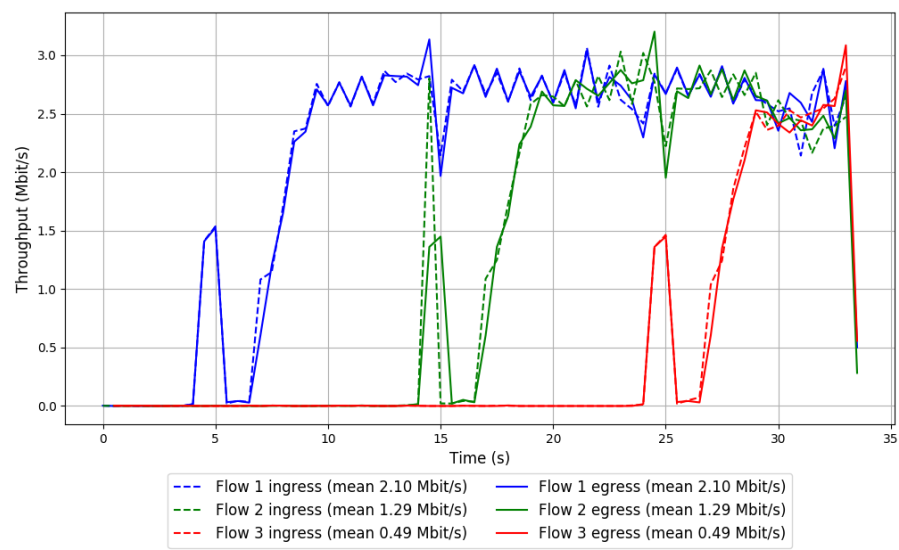
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.006 ms

Loss rate: 0.06%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-12 06:28:36

End at: 2017-10-12 06:29:06

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 114.034 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 114.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

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

Loss rate: 0.00%

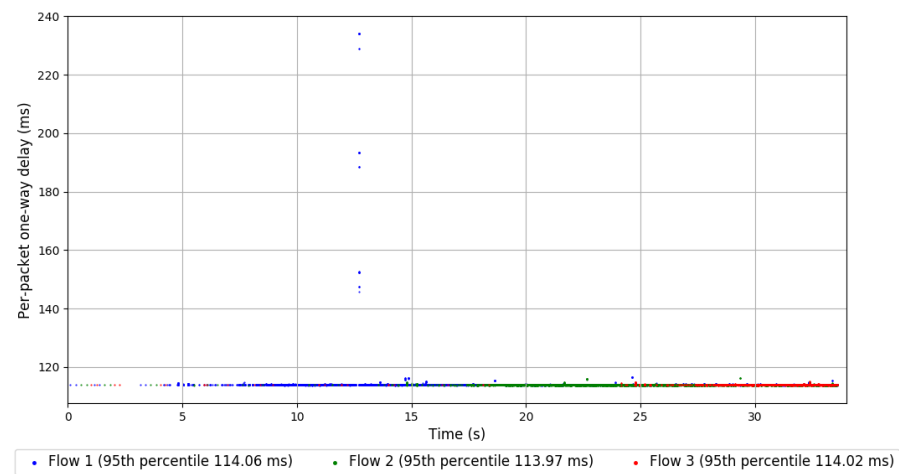
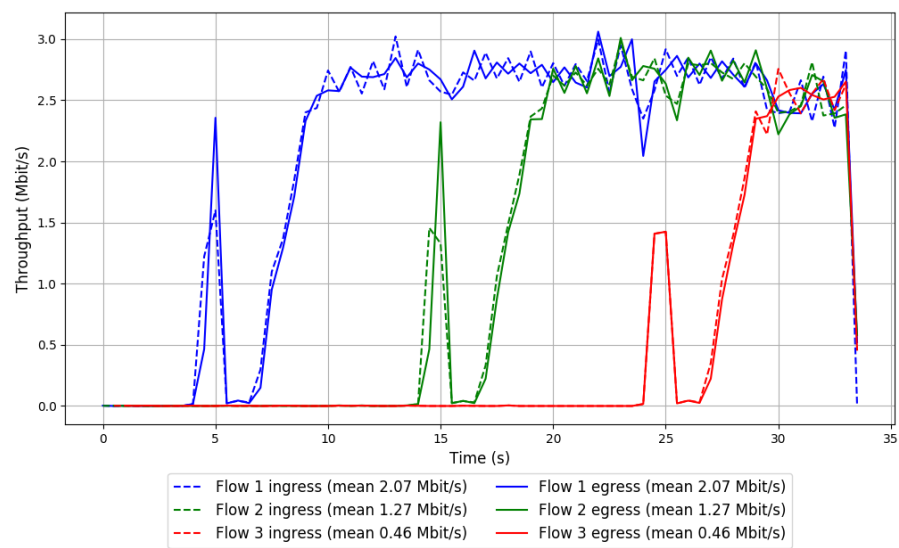
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 114.016 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-12 06:41:58

End at: 2017-10-12 06:42:28

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 114.040 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 114.031 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 114.064 ms

Loss rate: 0.00%

-- Flow 3:

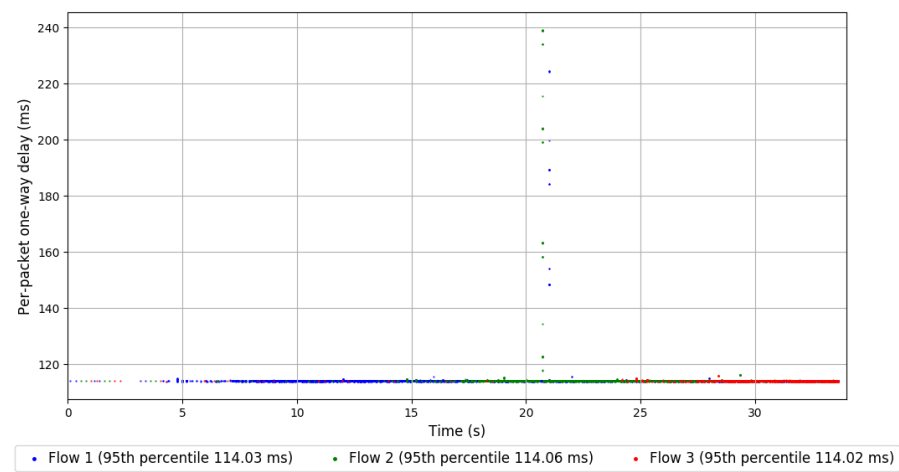
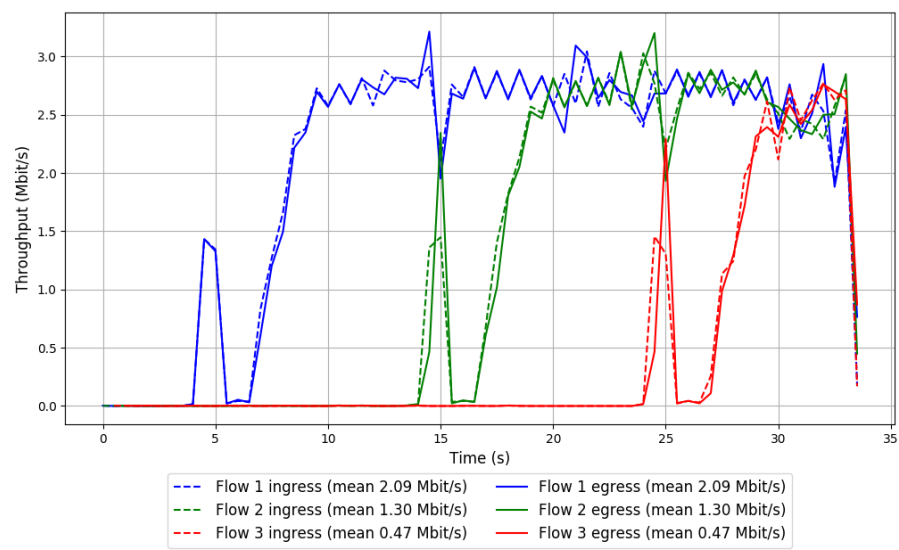
Average throughput: 0.47 Mbit/s

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

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-12 06:55:26

End at: 2017-10-12 06:55:56

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 114.084 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 114.016 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 114.136 ms

Loss rate: 0.00%

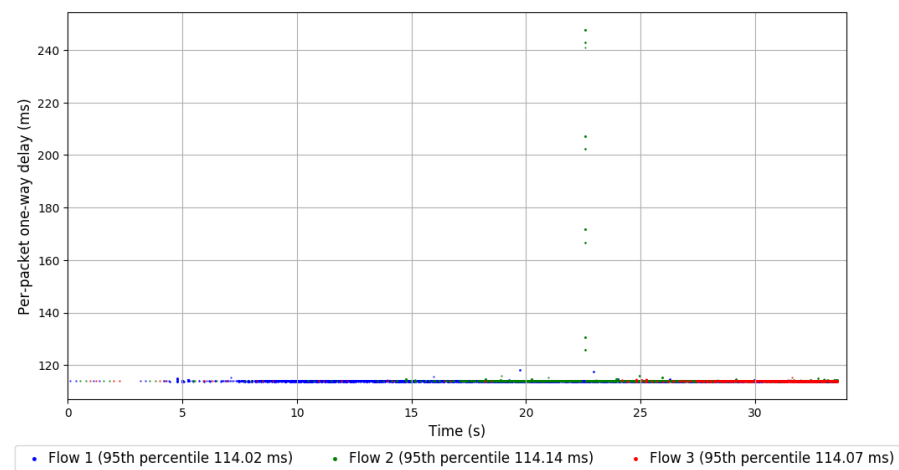
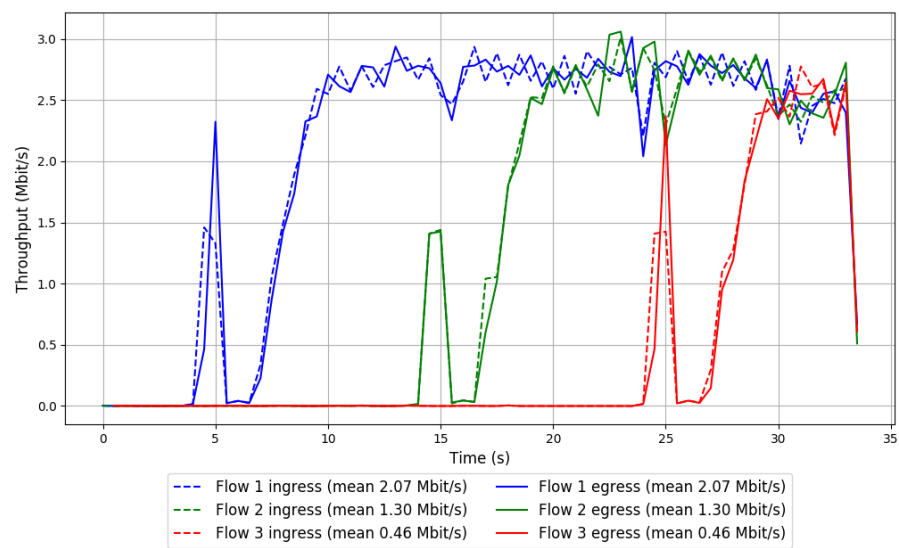
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 114.067 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-12 07:08:54

End at: 2017-10-12 07:09:24

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 114.136 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 114.125 ms

Loss rate: 0.00%

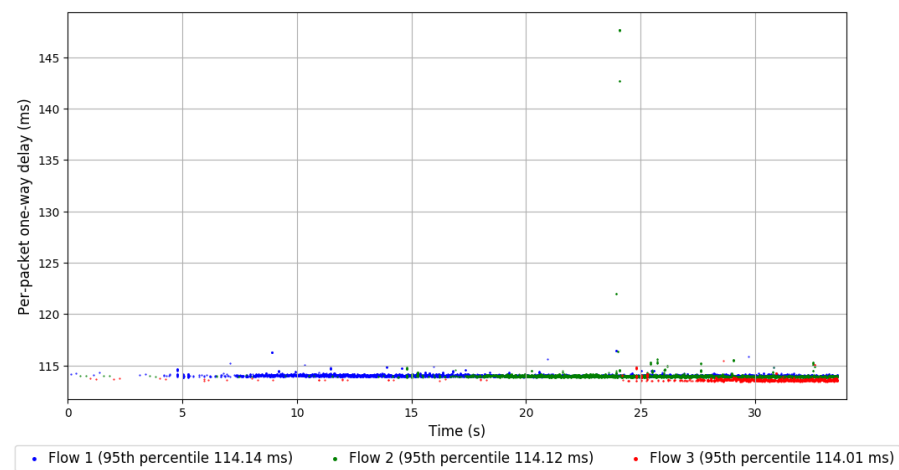
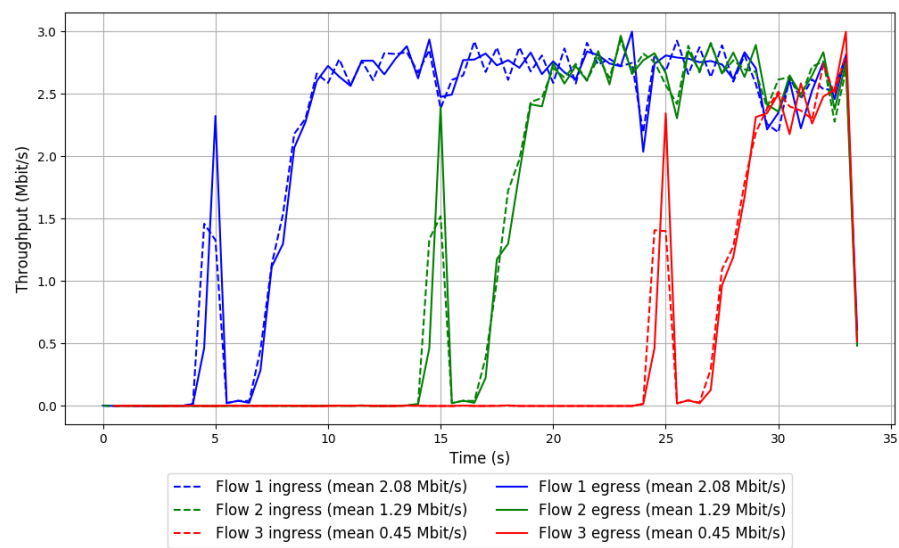
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 114.007 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-12 07:22:09

End at: 2017-10-12 07:22:39

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 114.072 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 113.784 ms

Loss rate: 0.00%

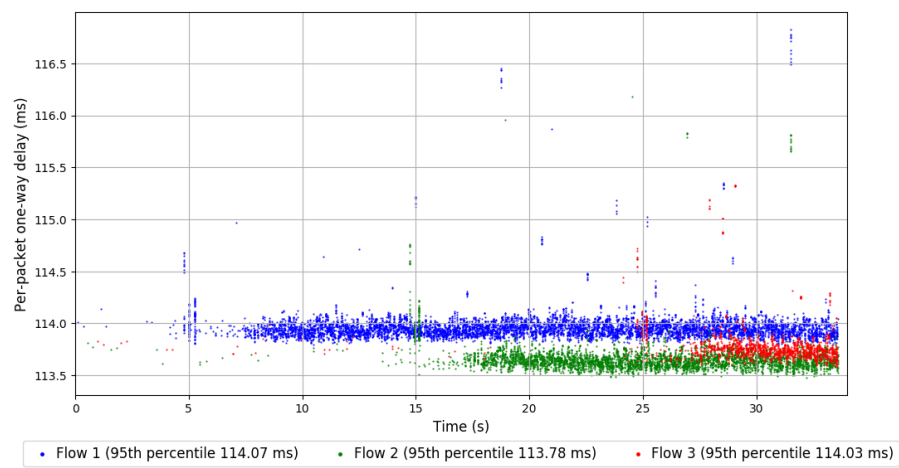
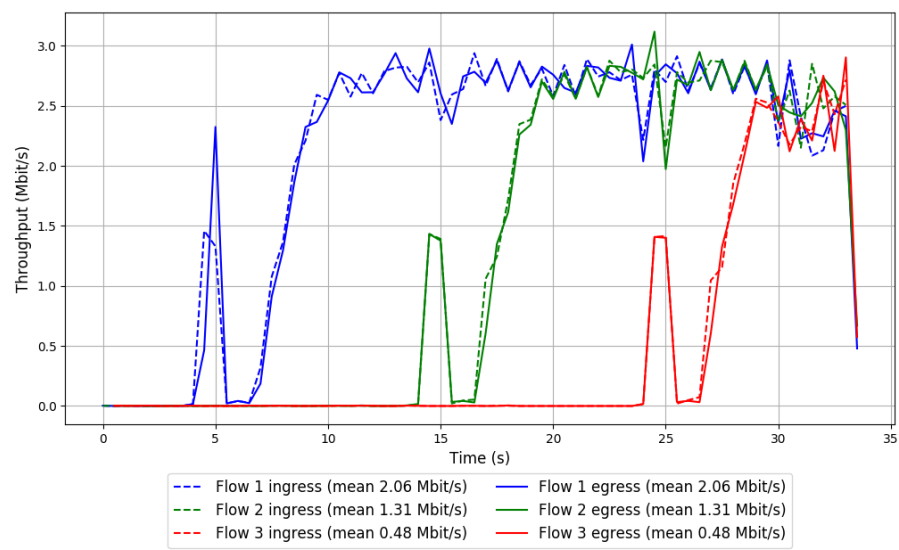
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 114.032 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-12 07:35:43

End at: 2017-10-12 07:36:13

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 114.012 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 113.855 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 113.908 ms

Loss rate: 0.00%

-- Flow 3:

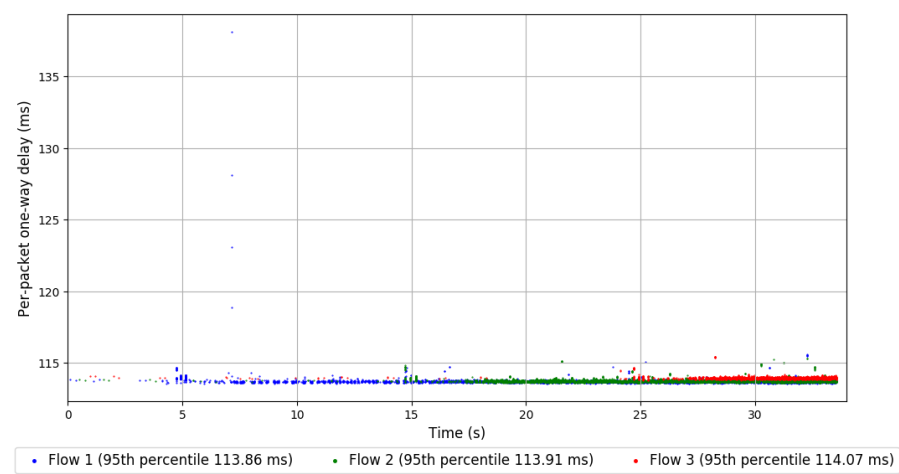
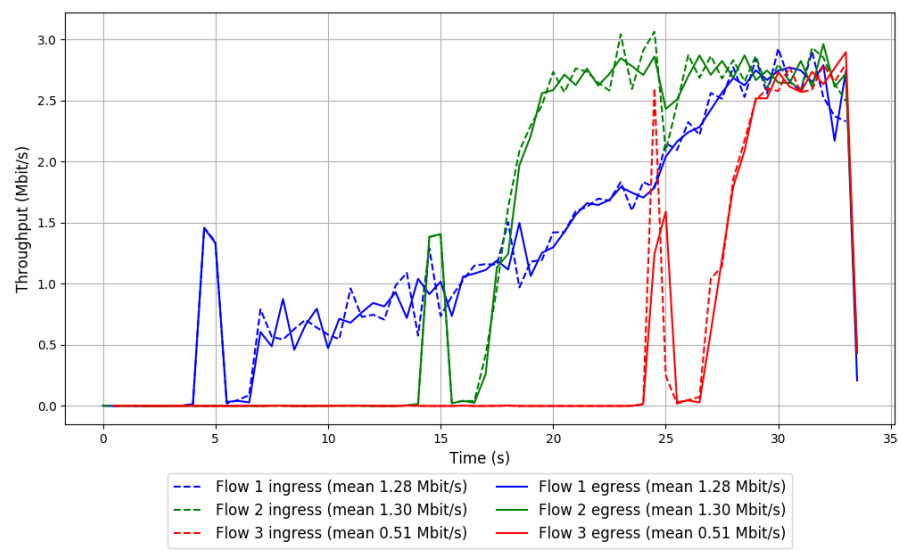
Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 114.070 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link

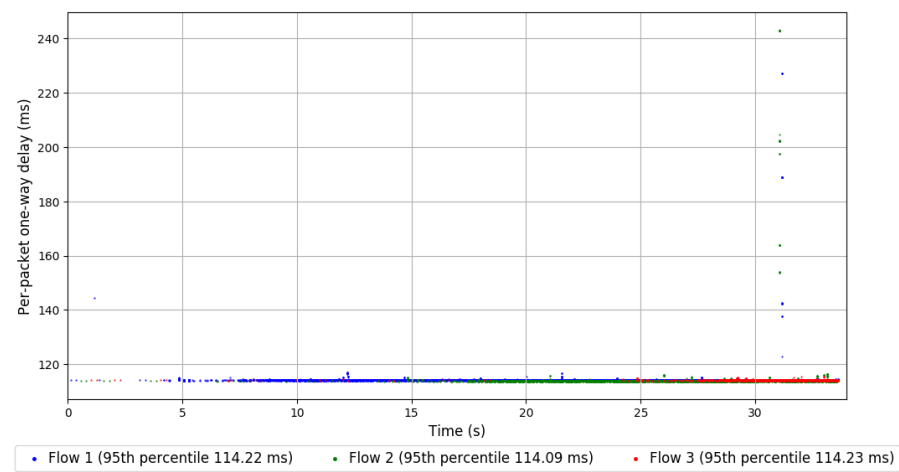
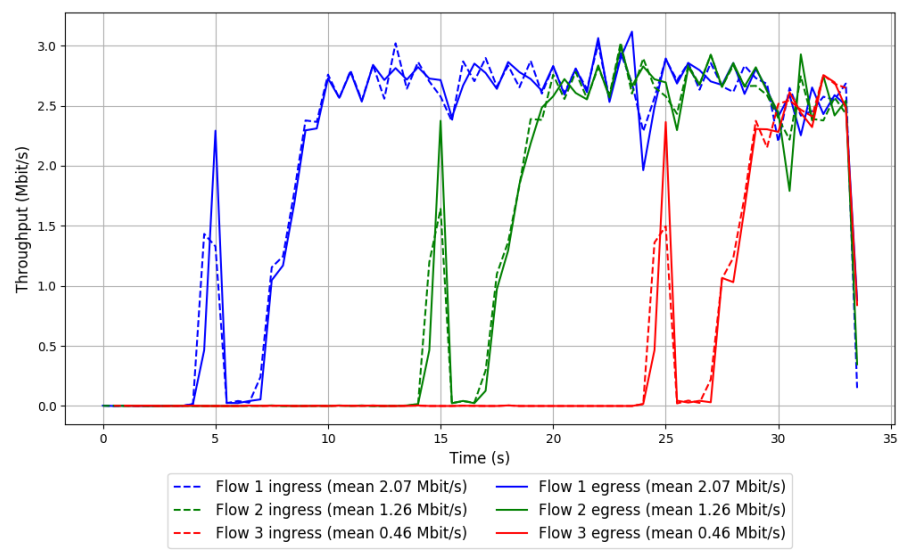


```
Run 10: Statistics of WebRTC media

Start at: 2017-10-12 07:49:17
End at: 2017-10-12 07:49:47

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 114.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 114.216 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 114.093 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 114.227 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

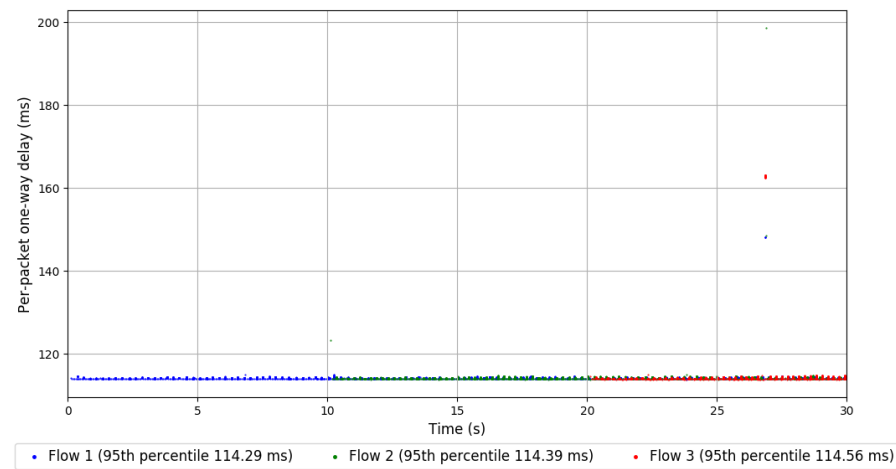
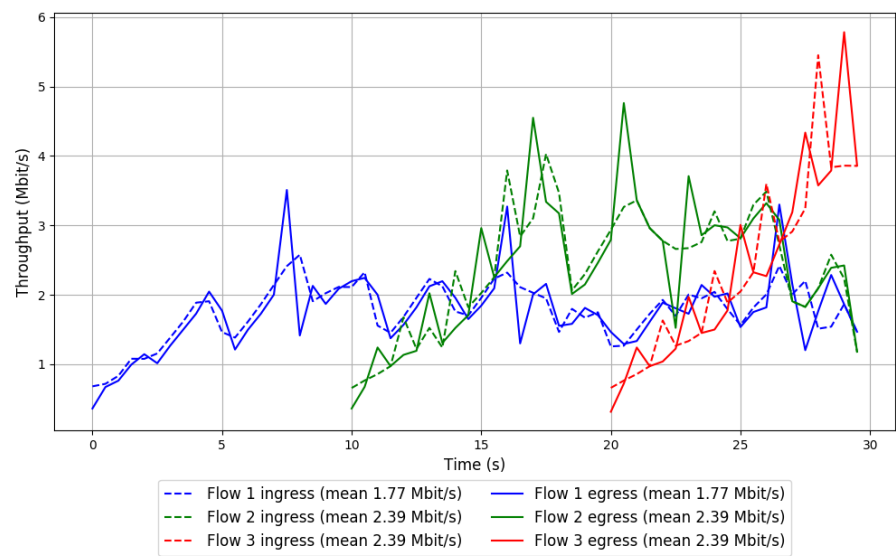


```
Run 1: Statistics of Sprout

Start at: 2017-10-12 05:49:48
End at: 2017-10-12 05:50:18

# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 114.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 114.293 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 114.386 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 114.565 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-12 06:03:20

End at: 2017-10-12 06:03:50

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 114.512 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 114.583 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 114.469 ms

Loss rate: 0.18%

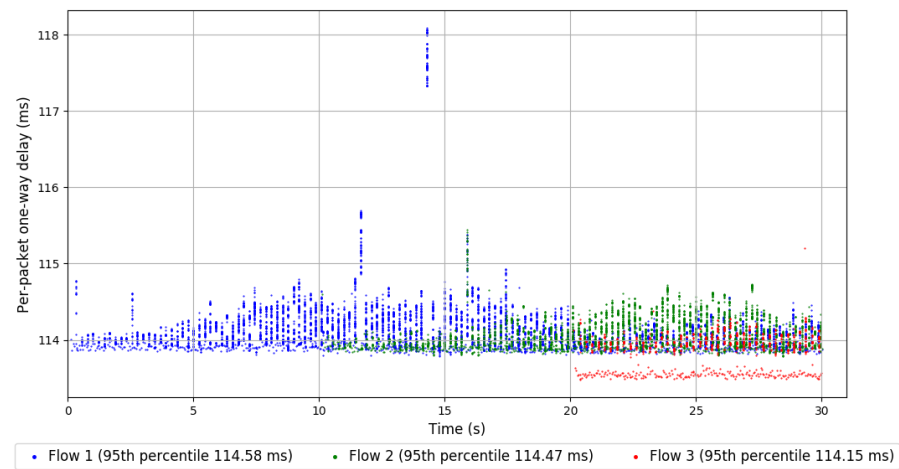
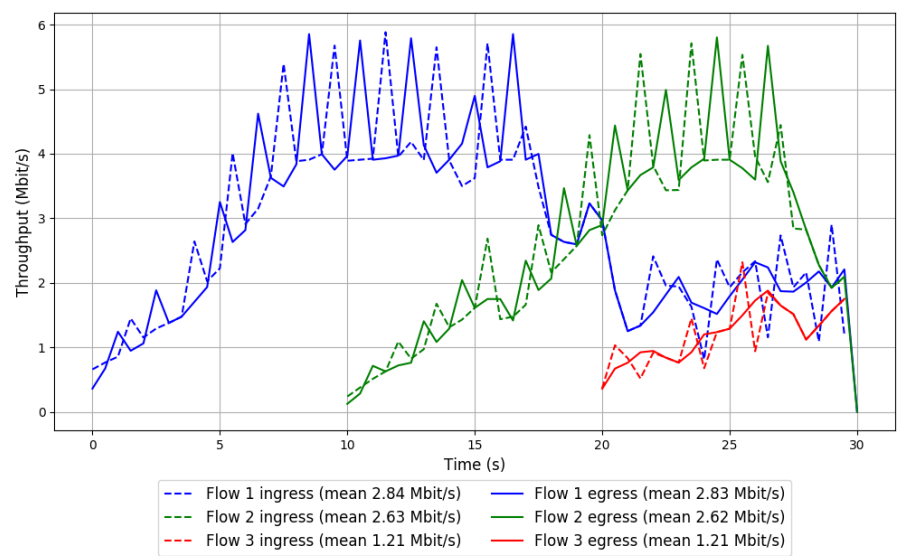
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 114.151 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-12 06:16:44

End at: 2017-10-12 06:17:14

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 114.548 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 114.358 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 114.597 ms

Loss rate: 0.02%

-- Flow 3:

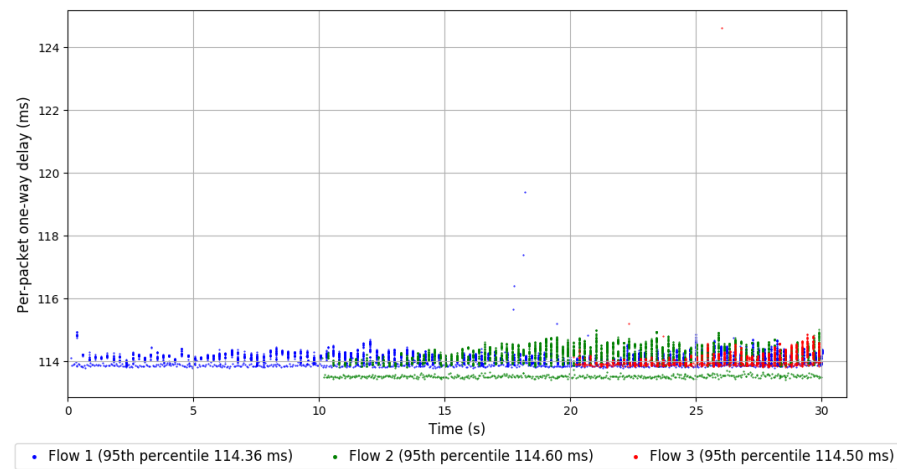
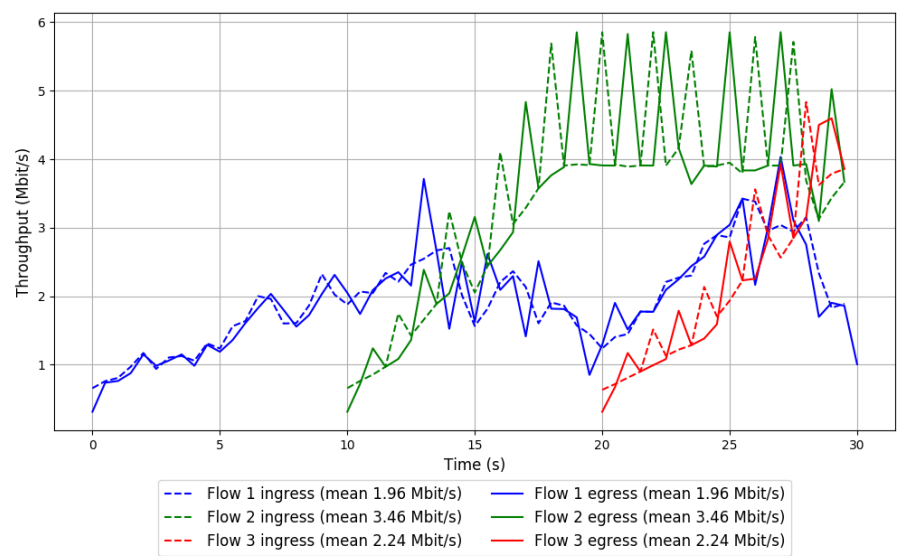
Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 114.505 ms

Loss rate: 0.00%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-12 06:30:15

End at: 2017-10-12 06:30:45

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 114.434 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.429 ms

Loss rate: 0.00%

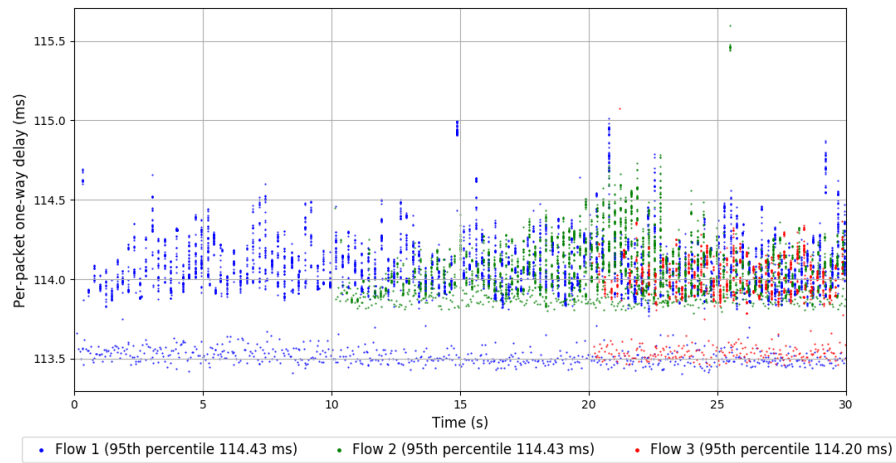
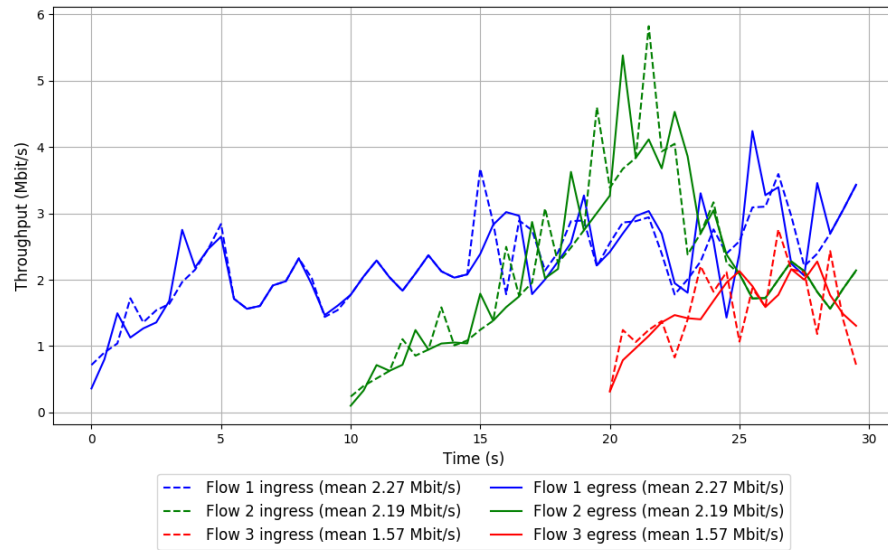
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 114.202 ms

Loss rate: 0.00%

#### Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-12 06:43:38

End at: 2017-10-12 06:44:08

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.70 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 114.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 114.313 ms

Loss rate: 0.00%

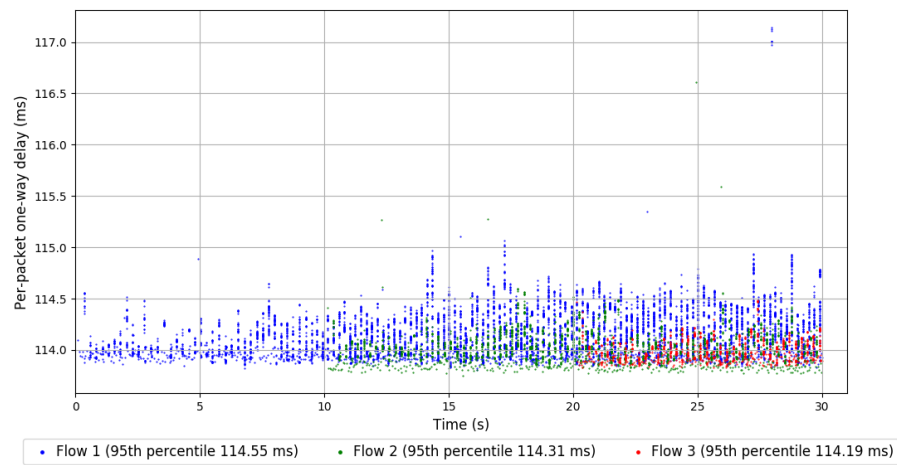
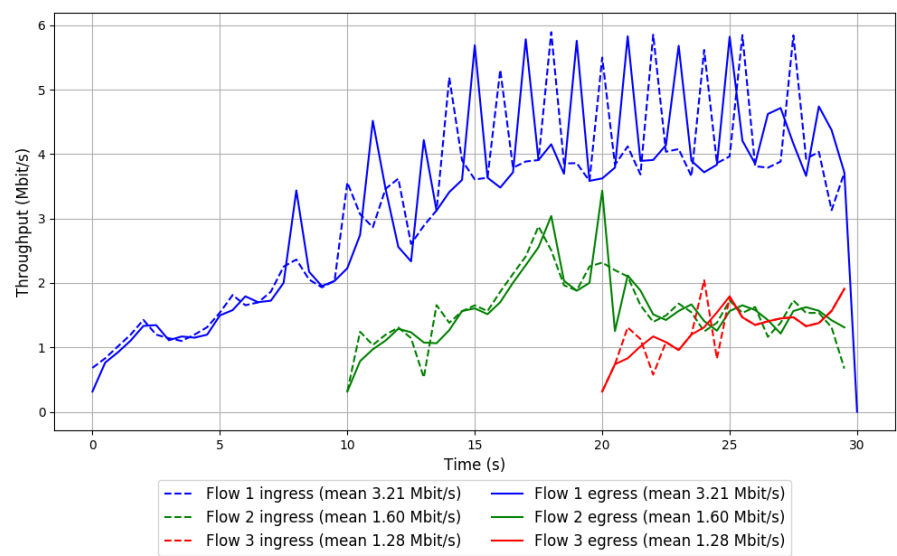
-- Flow 3:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 114.185 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-12 06:57:05

End at: 2017-10-12 06:57:35

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 114.522 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 114.581 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 114.496 ms

Loss rate: 0.00%

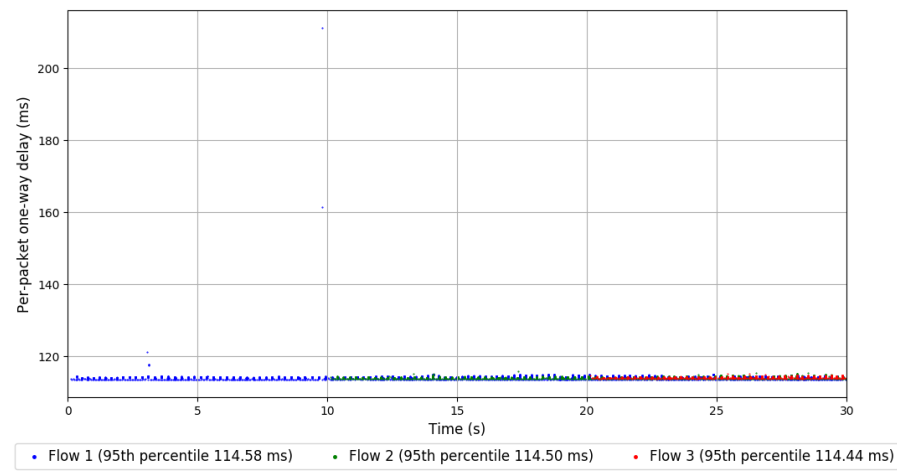
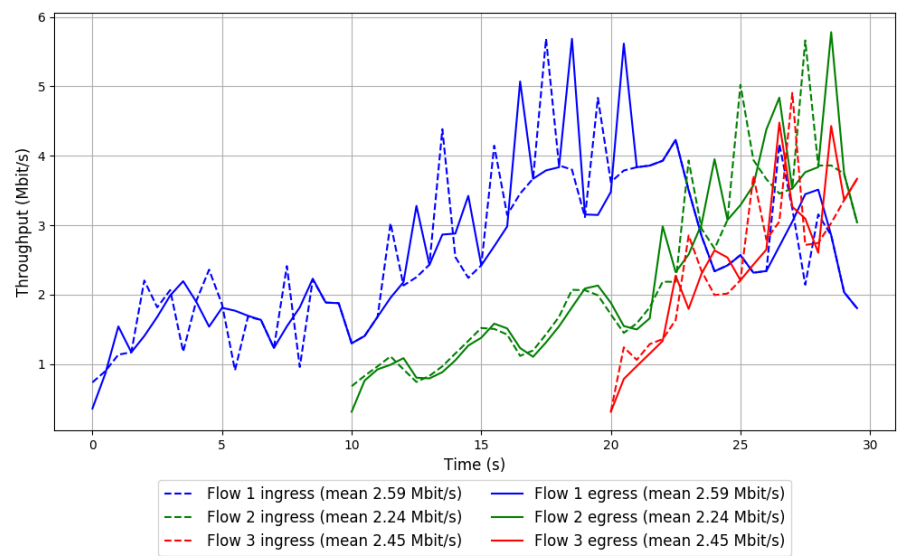
-- Flow 3:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 114.438 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-12 07:10:34

End at: 2017-10-12 07:11:04

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 114.535 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 114.602 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 114.286 ms

Loss rate: 0.00%

-- Flow 3:

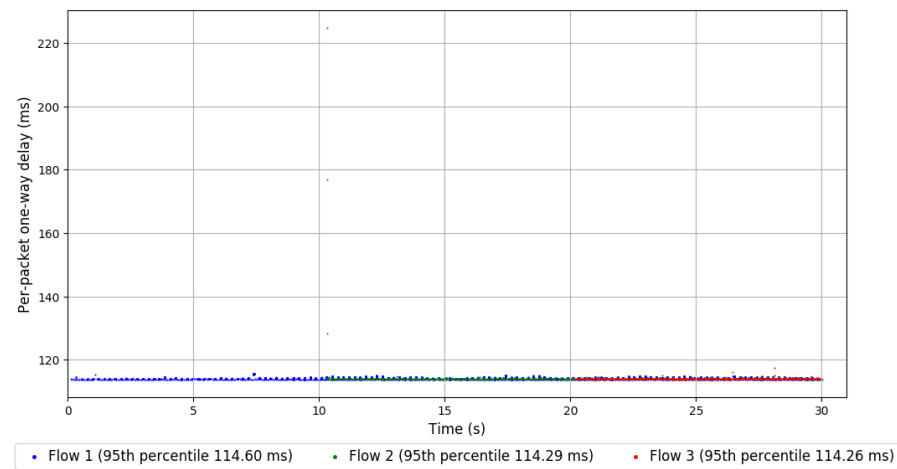
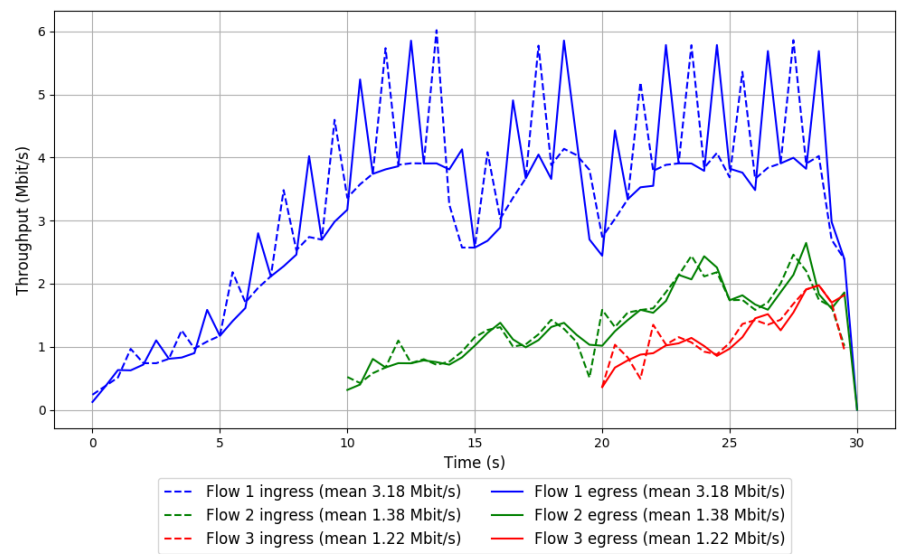
Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 114.264 ms

Loss rate: 0.00%



Run 7: Report of Sprout — Data Link



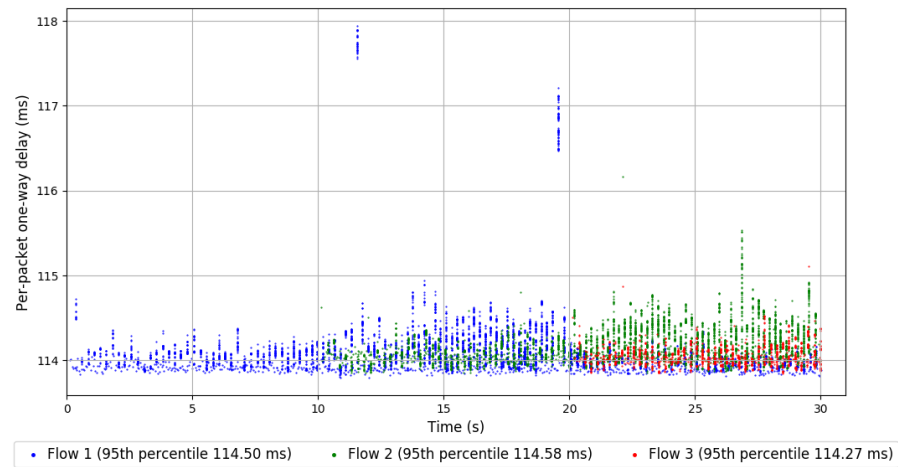
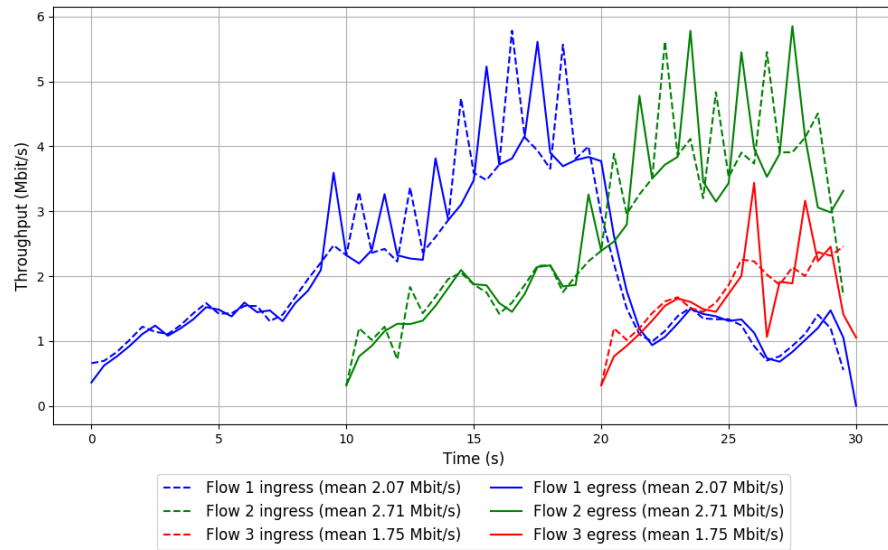
Run 8: Statistics of Sprout

Start at: 2017-10-12 07:23:48

End at: 2017-10-12 07:24:18

```
# Below is generated by plot.py at 2017-10-12 09:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 114.521 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 114.505 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 114.580 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 114.266 ms
Loss rate: 0.00%
```

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-12 07:37:25

End at: 2017-10-12 07:37:55

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 114.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 114.492 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.60 Mbit/s

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

Loss rate: 0.00%

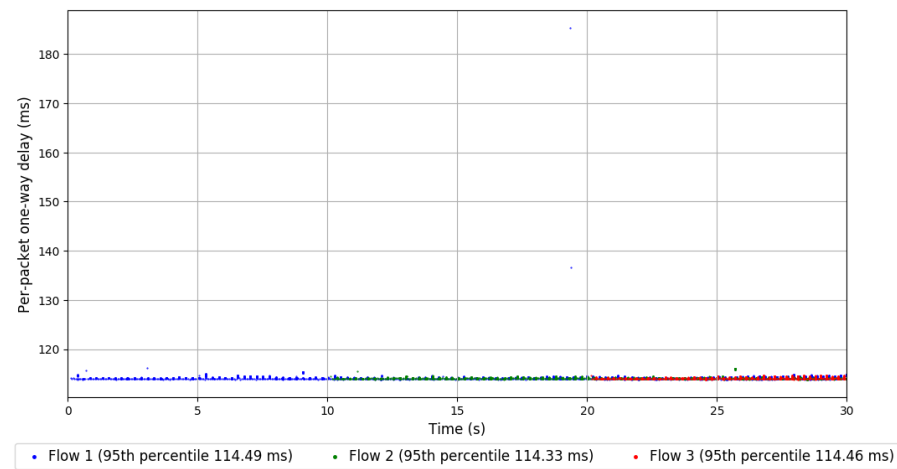
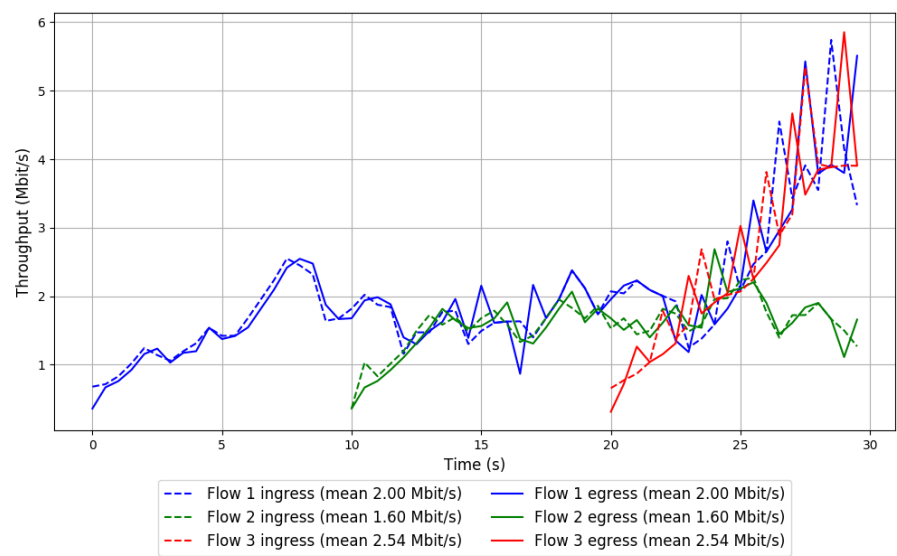
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 114.464 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-12 07:51:00

End at: 2017-10-12 07:51:30

# Below is generated by plot.py at 2017-10-12 09:11:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 114.602 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 114.639 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 114.303 ms

Loss rate: 0.00%

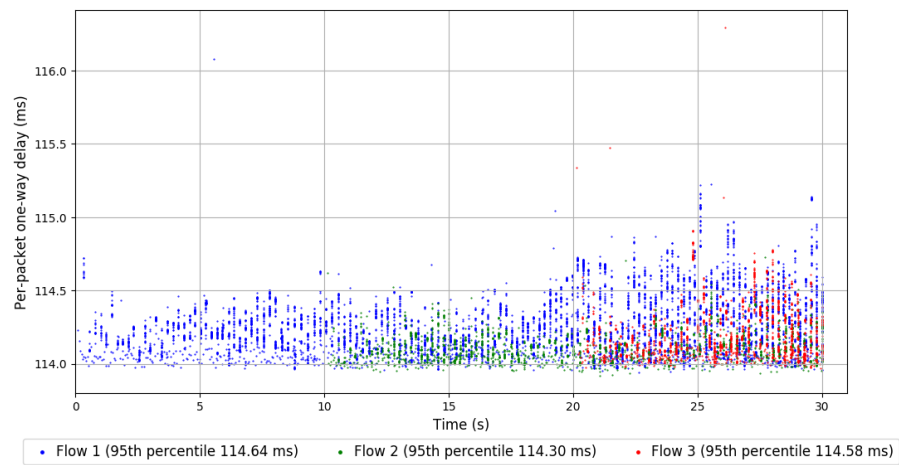
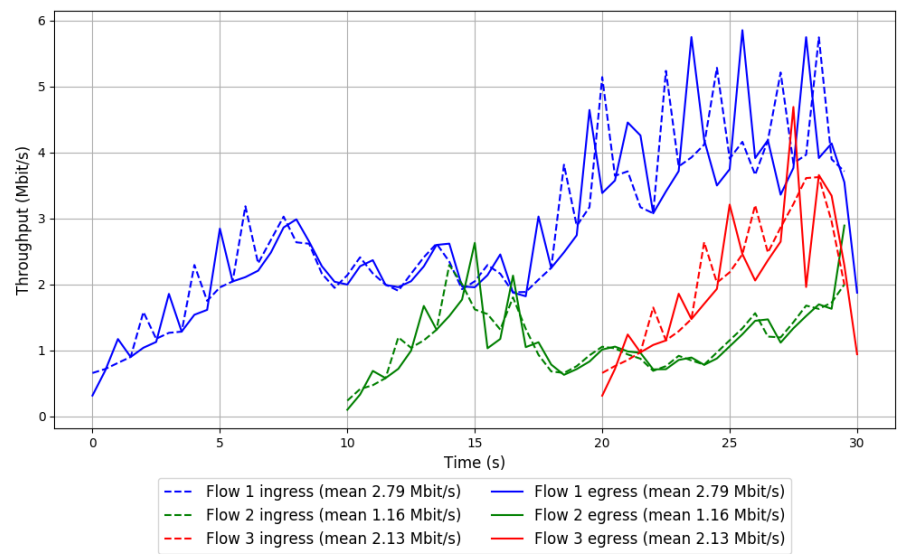
-- Flow 3:

Average throughput: 2.13 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



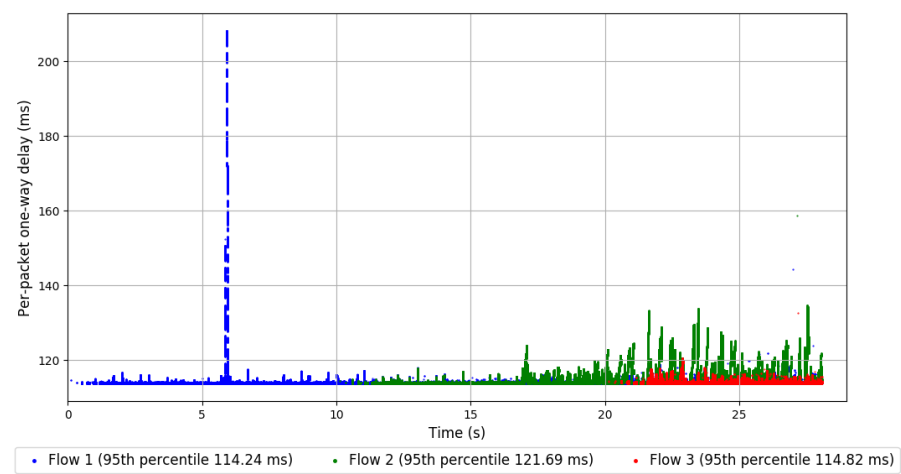
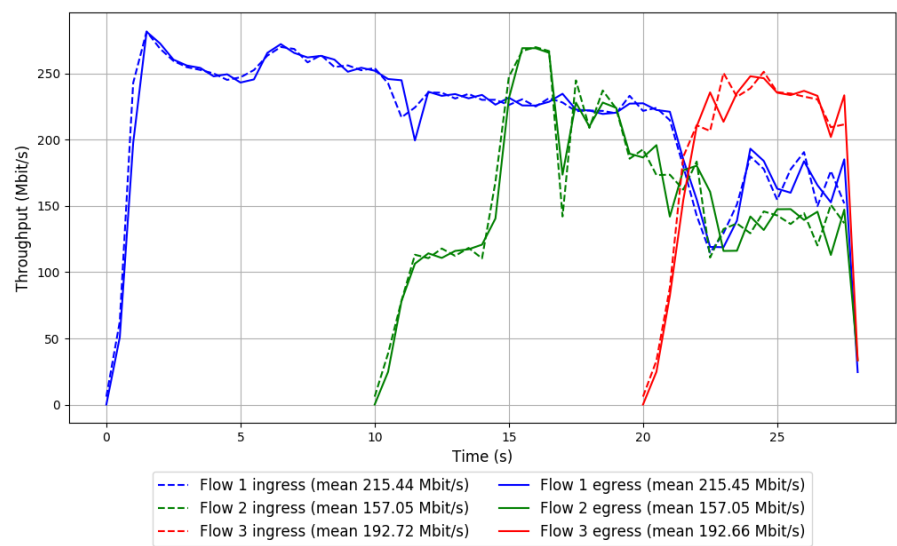
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-12 05:55:07
End at: 2017-10-12 05:55:37

# Below is generated by plot.py at 2017-10-12 09:17:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.94 Mbit/s
95th percentile per-packet one-way delay: 116.661 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 215.45 Mbit/s
95th percentile per-packet one-way delay: 114.240 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 157.05 Mbit/s
95th percentile per-packet one-way delay: 121.694 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 192.66 Mbit/s
95th percentile per-packet one-way delay: 114.824 ms
Loss rate: 0.04%
```



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

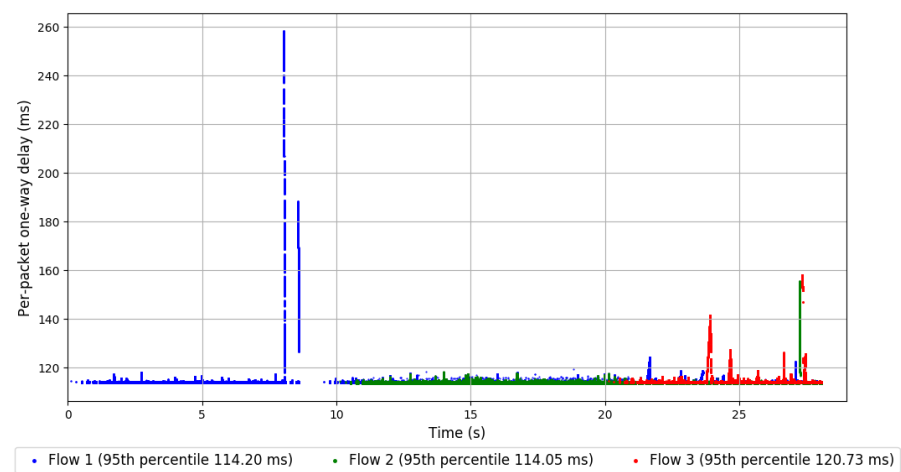
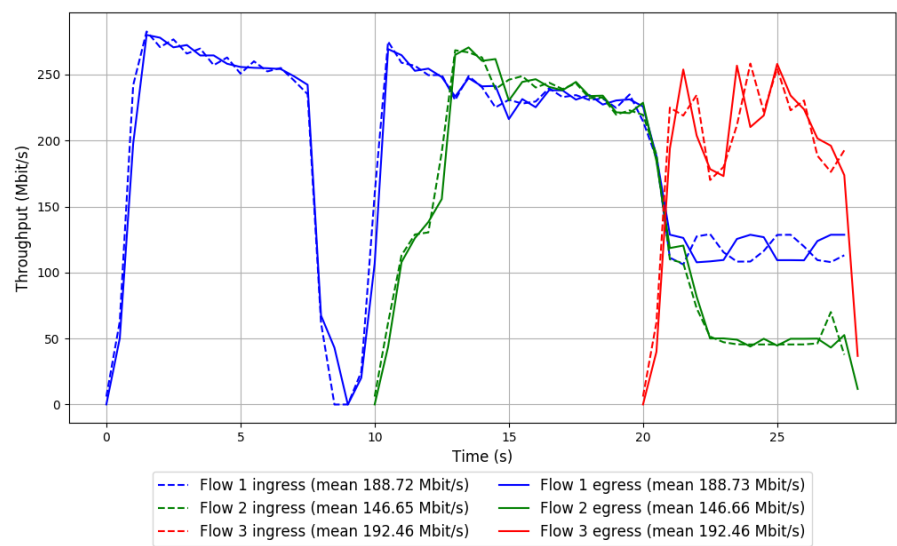


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-12 06:08:35
End at: 2017-10-12 06:09:05

# Below is generated by plot.py at 2017-10-12 09:17:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.00 Mbit/s
95th percentile per-packet one-way delay: 114.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.73 Mbit/s
95th percentile per-packet one-way delay: 114.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.66 Mbit/s
95th percentile per-packet one-way delay: 114.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 192.46 Mbit/s
95th percentile per-packet one-way delay: 120.735 ms
Loss rate: 0.02%
```

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

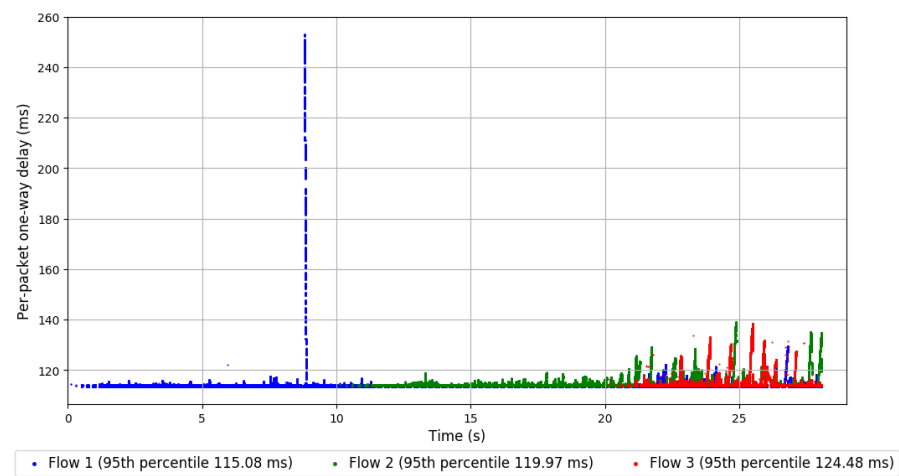
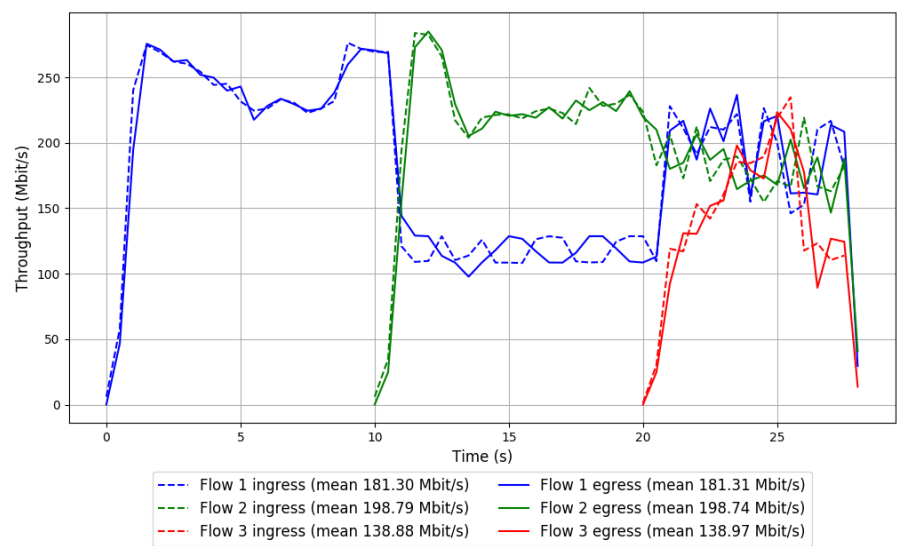


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-10-12 06:22:04
End at: 2017-10-12 06:22:34

# Below is generated by plot.py at 2017-10-12 09:17:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.10 Mbit/s
95th percentile per-packet one-way delay: 118.032 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 181.31 Mbit/s
95th percentile per-packet one-way delay: 115.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 198.74 Mbit/s
95th percentile per-packet one-way delay: 119.974 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 138.97 Mbit/s
95th percentile per-packet one-way delay: 124.485 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-12 06:35:32

End at: 2017-10-12 06:36:02

# Below is generated by plot.py at 2017-10-12 09:17:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 325.20 Mbit/s

95th percentile per-packet one-way delay: 114.154 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 195.42 Mbit/s

95th percentile per-packet one-way delay: 114.073 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.71 Mbit/s

95th percentile per-packet one-way delay: 114.261 ms

Loss rate: 0.00%

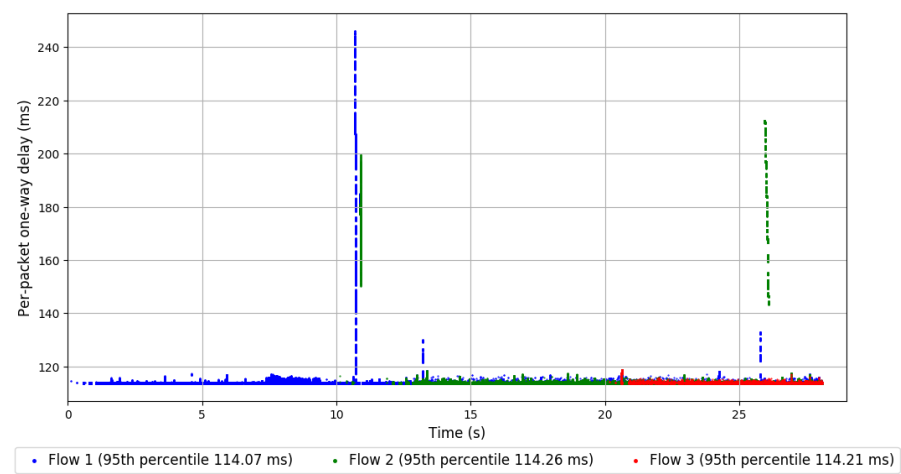
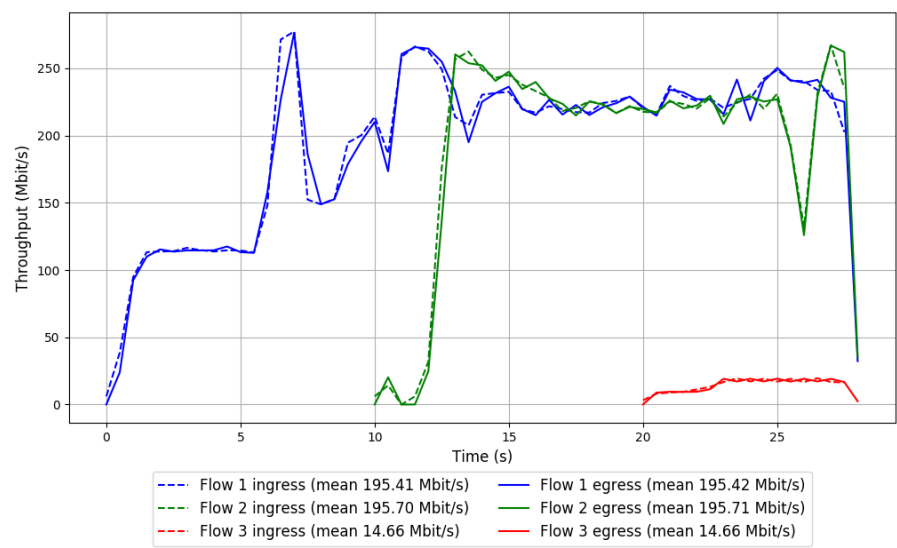
-- Flow 3:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 114.206 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-12 06:48:56

End at: 2017-10-12 06:49:26

# Below is generated by plot.py at 2017-10-12 09:17:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 364.63 Mbit/s

95th percentile per-packet one-way delay: 114.391 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 182.58 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 203.52 Mbit/s

95th percentile per-packet one-way delay: 114.106 ms

Loss rate: 0.00%

-- Flow 3:

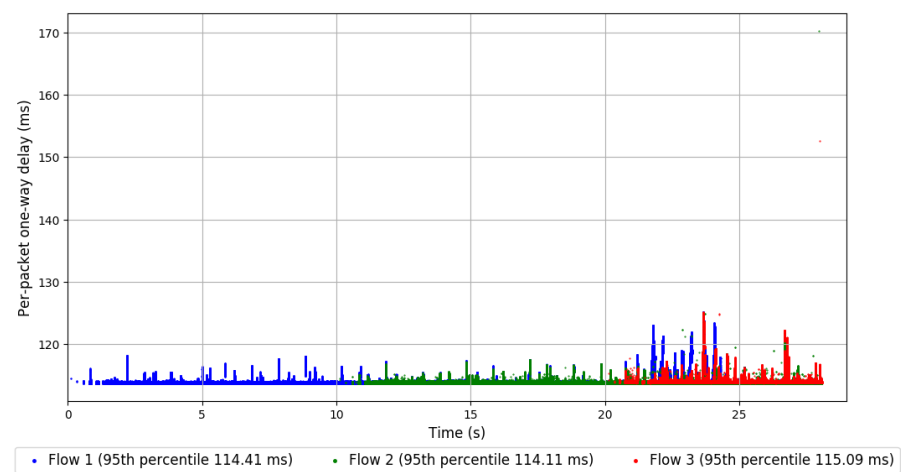
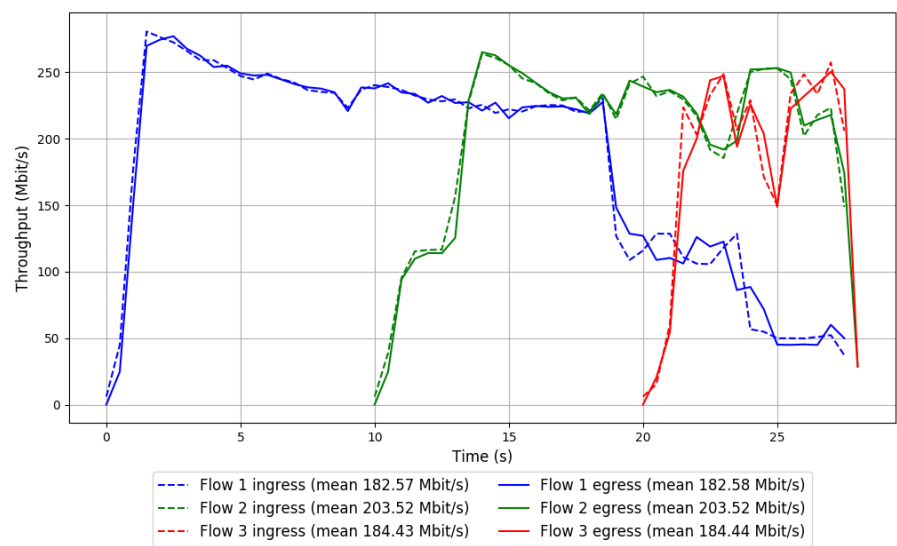
Average throughput: 184.44 Mbit/s

95th percentile per-packet one-way delay: 115.091 ms

Loss rate: 0.00%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-12 07:02:29

End at: 2017-10-12 07:02:59

# Below is generated by plot.py at 2017-10-12 09:17:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 314.61 Mbit/s

95th percentile per-packet one-way delay: 118.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 153.87 Mbit/s

95th percentile per-packet one-way delay: 119.569 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.92 Mbit/s

95th percentile per-packet one-way delay: 117.978 ms

Loss rate: 0.00%

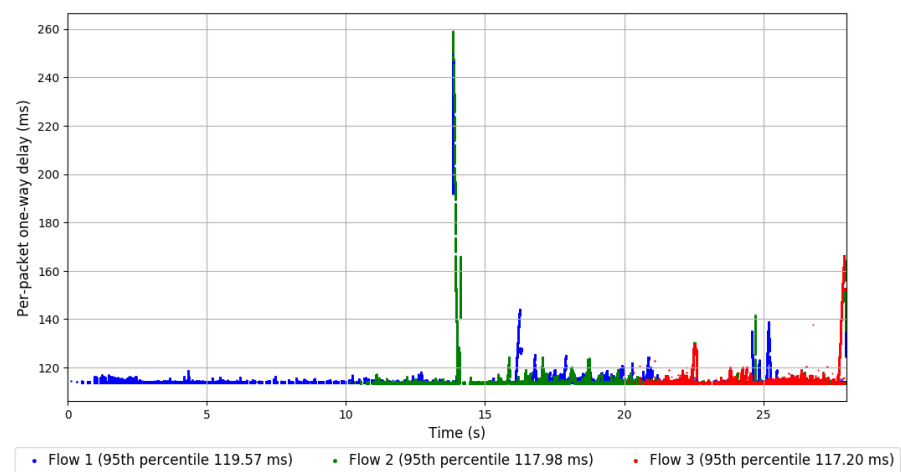
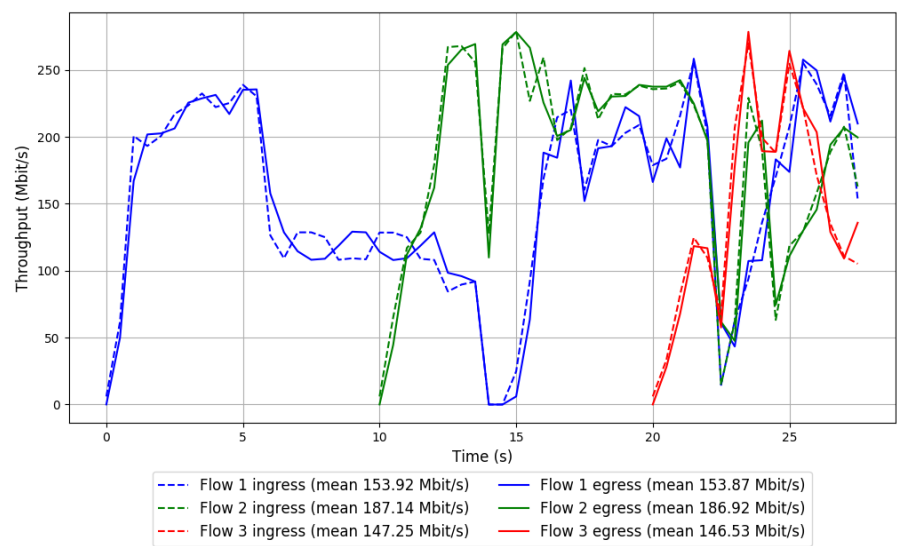
-- Flow 3:

Average throughput: 146.53 Mbit/s

95th percentile per-packet one-way delay: 117.197 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-12 07:15:38

End at: 2017-10-12 07:16:08

# Below is generated by plot.py at 2017-10-12 09:23:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 373.73 Mbit/s

95th percentile per-packet one-way delay: 114.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 224.21 Mbit/s

95th percentile per-packet one-way delay: 114.094 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.65 Mbit/s

95th percentile per-packet one-way delay: 114.808 ms

Loss rate: 0.00%

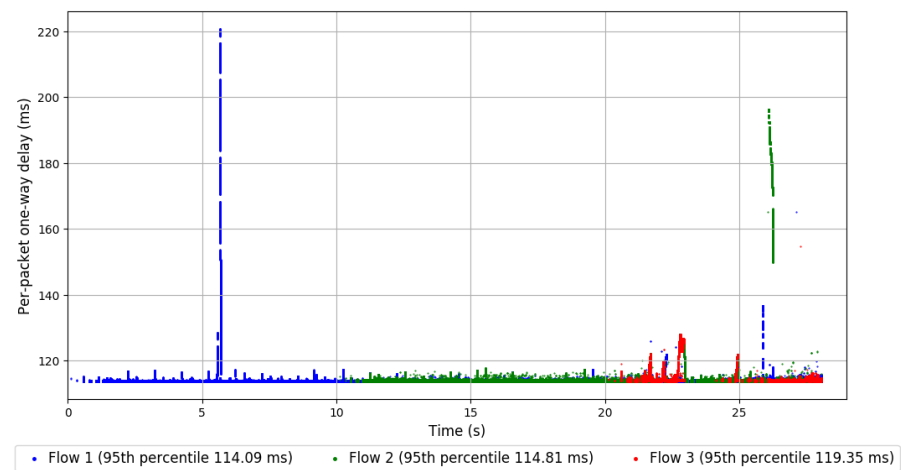
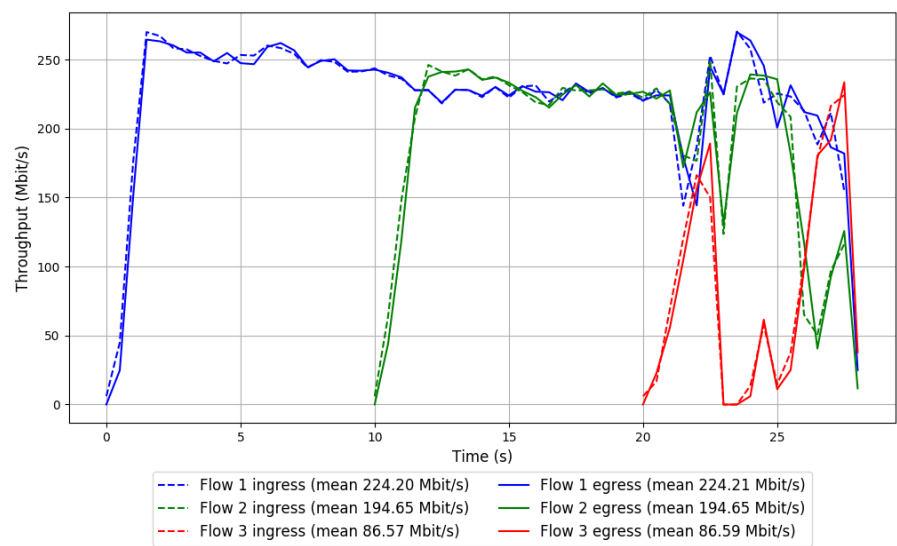
-- Flow 3:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 119.348 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-12 07:29:09

End at: 2017-10-12 07:29:39

# Below is generated by plot.py at 2017-10-12 09:24:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 381.17 Mbit/s

95th percentile per-packet one-way delay: 114.703 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 216.57 Mbit/s

95th percentile per-packet one-way delay: 114.268 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.95 Mbit/s

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

Loss rate: 0.00%

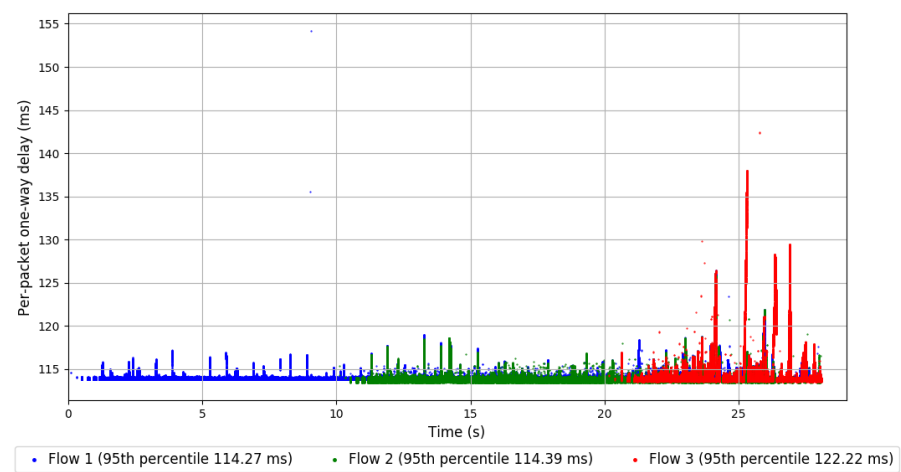
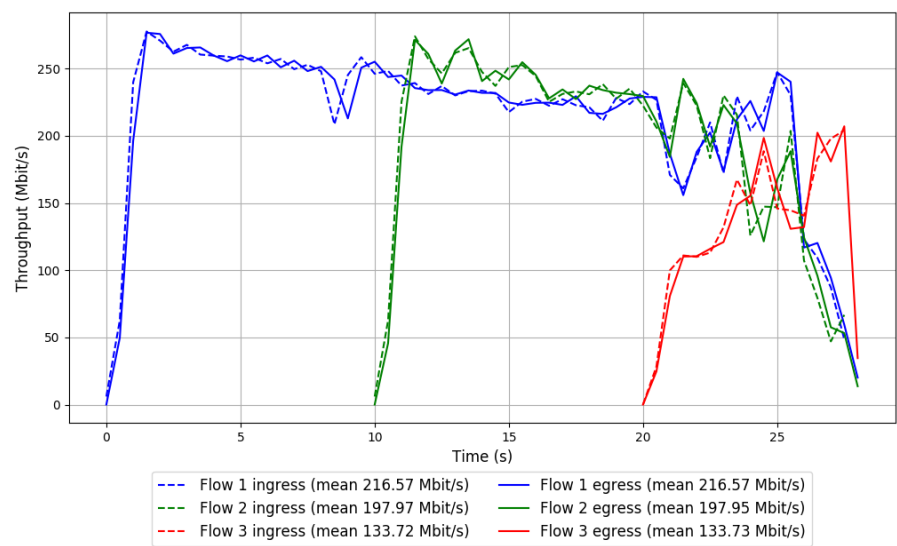
-- Flow 3:

Average throughput: 133.73 Mbit/s

95th percentile per-packet one-way delay: 122.221 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-12 07:42:38

End at: 2017-10-12 07:43:08

# Below is generated by plot.py at 2017-10-12 09:27:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 373.37 Mbit/s

95th percentile per-packet one-way delay: 115.473 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 212.56 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 194.52 Mbit/s

95th percentile per-packet one-way delay: 114.790 ms

Loss rate: 0.00%

-- Flow 3:

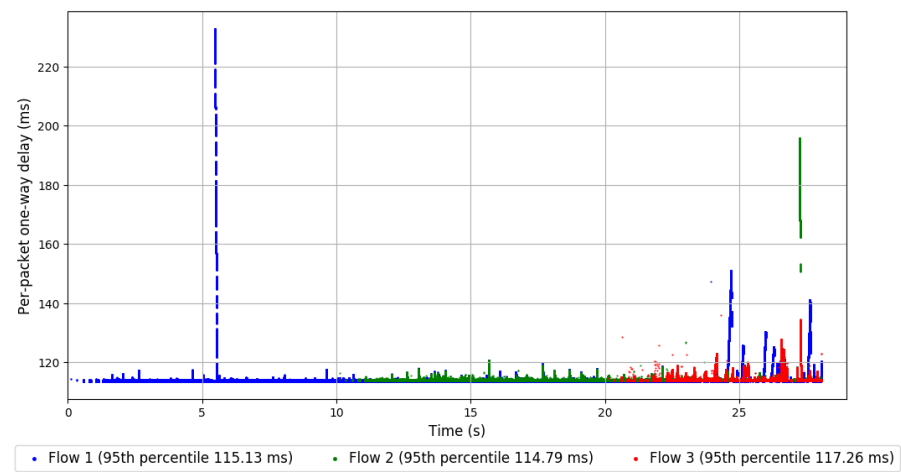
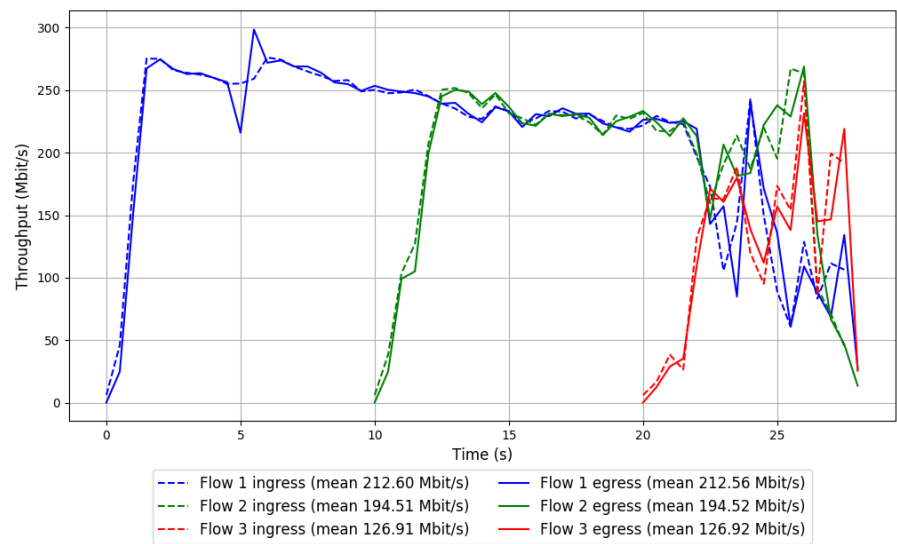
Average throughput: 126.92 Mbit/s

95th percentile per-packet one-way delay: 117.258 ms

Loss rate: 0.00%



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

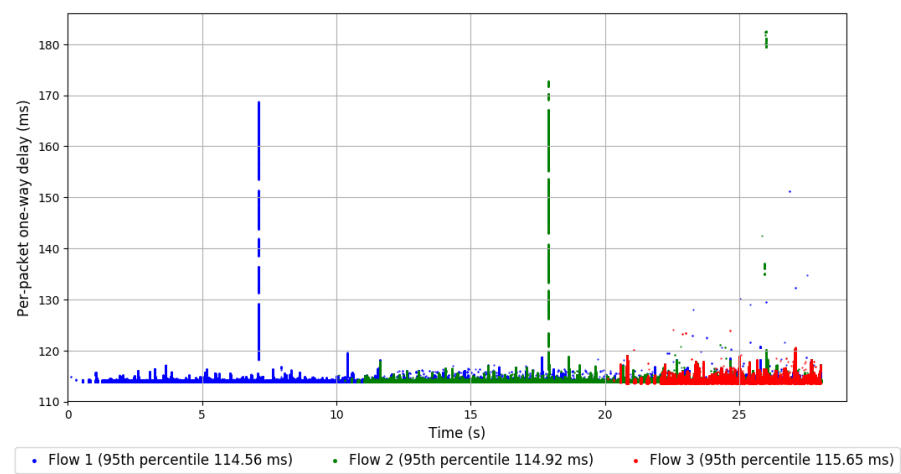
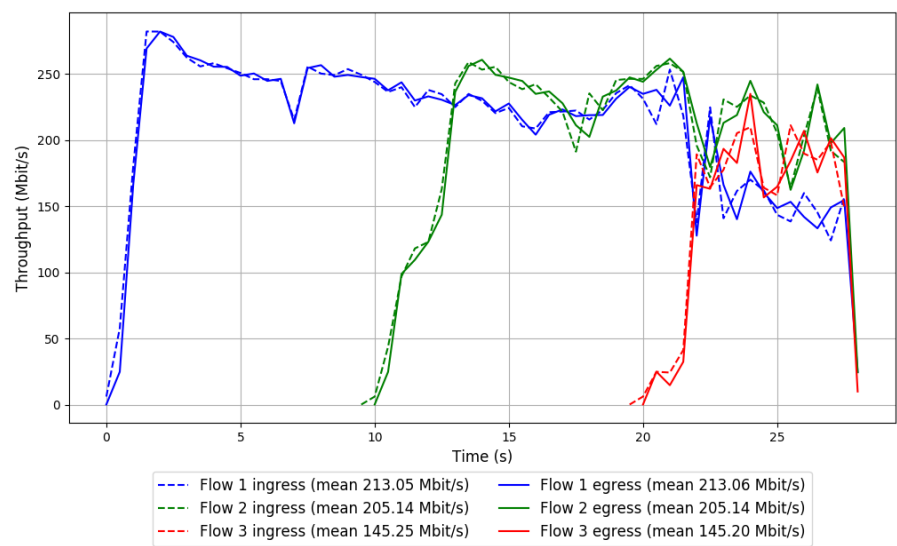


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-12 07:56:25
End at: 2017-10-12 07:56:55

# Below is generated by plot.py at 2017-10-12 09:28:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.00 Mbit/s
95th percentile per-packet one-way delay: 114.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.06 Mbit/s
95th percentile per-packet one-way delay: 114.564 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 205.14 Mbit/s
95th percentile per-packet one-way delay: 114.916 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.20 Mbit/s
95th percentile per-packet one-way delay: 115.648 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-12 05:53:22

End at: 2017-10-12 05:53:52

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 115.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.70 Mbit/s

95th percentile per-packet one-way delay: 115.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 115.791 ms

Loss rate: 0.00%

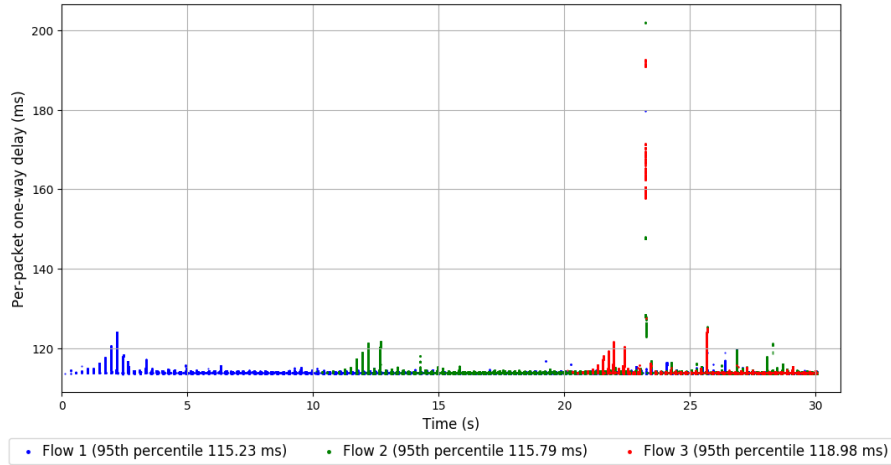
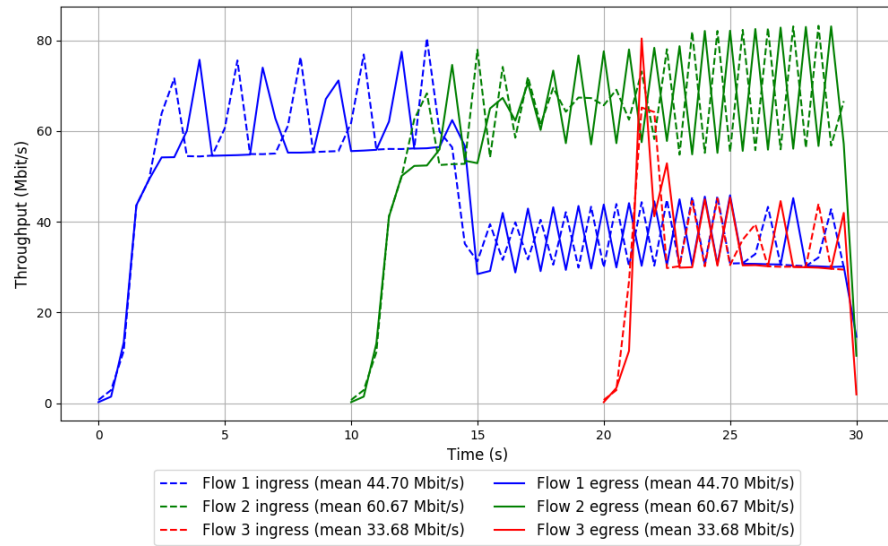
-- Flow 3:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 118.981 ms

Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-12 06:06:53

End at: 2017-10-12 06:07:23

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 115.887 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.83 Mbit/s

95th percentile per-packet one-way delay: 115.102 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 33.14 Mbit/s

95th percentile per-packet one-way delay: 117.313 ms

Loss rate: 0.00%

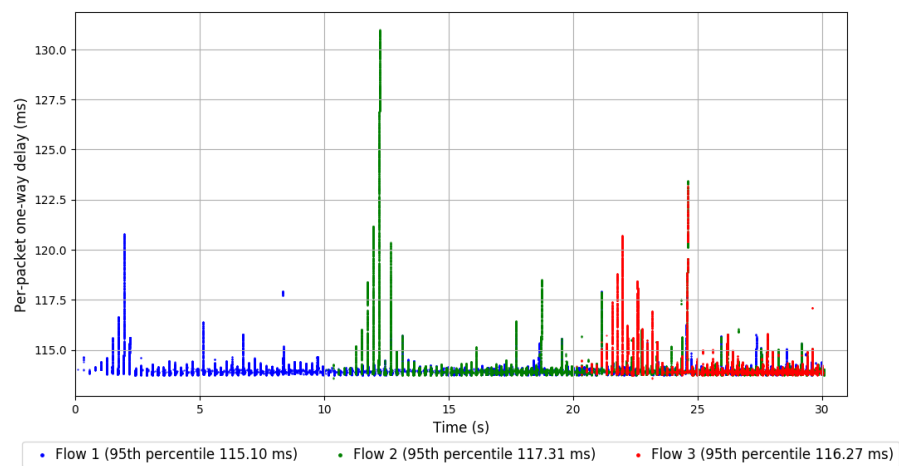
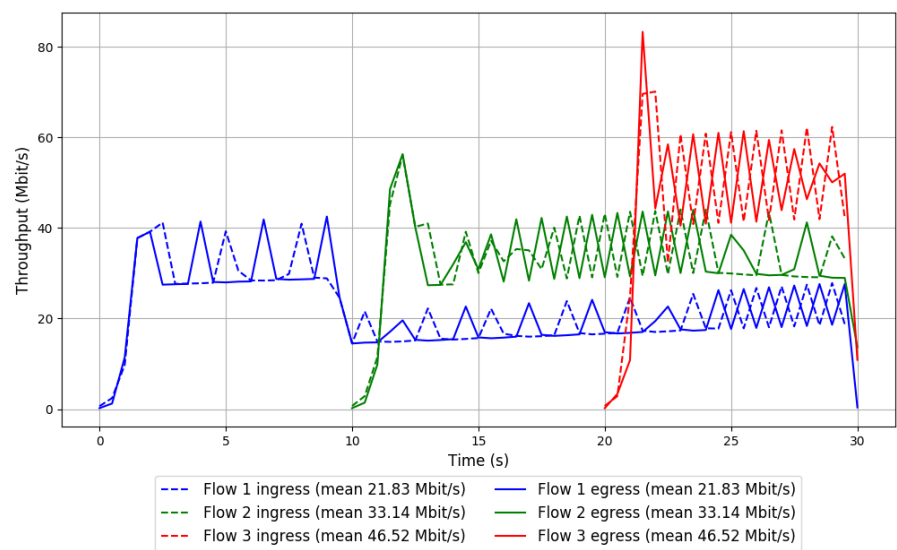
-- Flow 3:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 116.274 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-12 06:20:22

End at: 2017-10-12 06:20:52

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 116.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 114.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 116.897 ms

Loss rate: 0.00%

-- Flow 3:

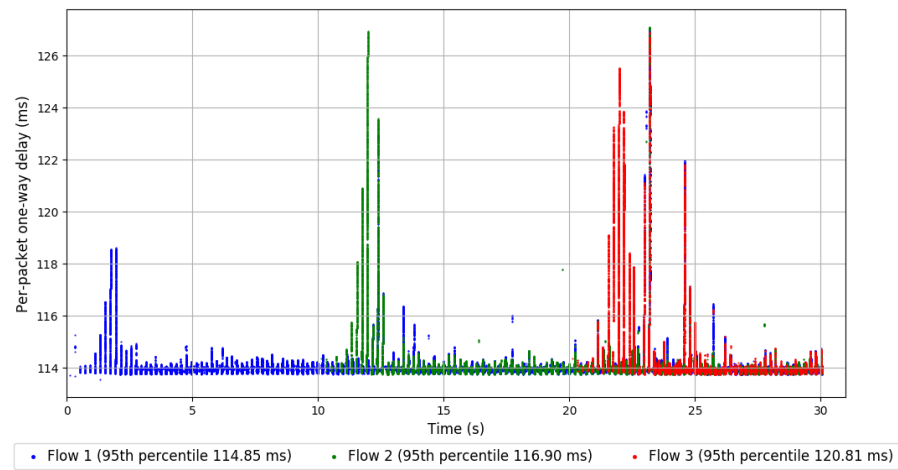
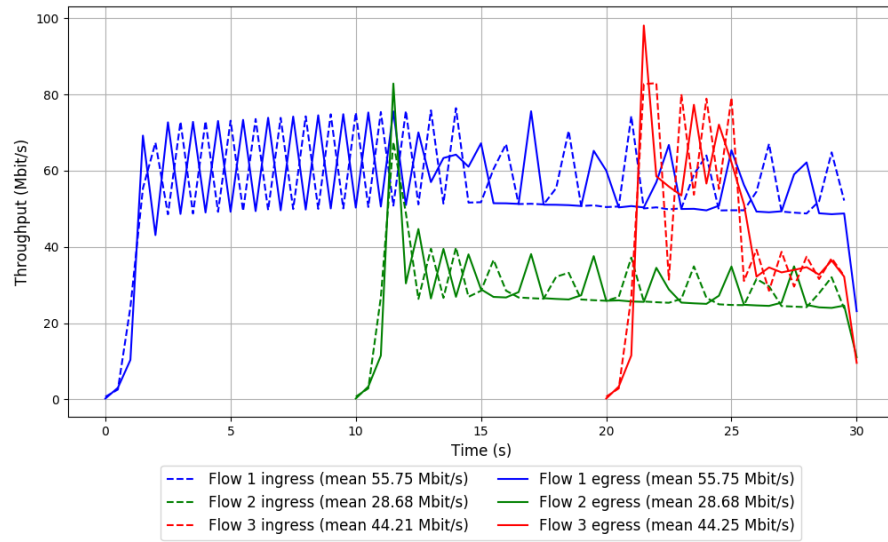
Average throughput: 44.25 Mbit/s

95th percentile per-packet one-way delay: 120.810 ms

Loss rate: 0.01%



### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-12 06:33:50

End at: 2017-10-12 06:34:20

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: 117.691 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.53 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 119.610 ms

Loss rate: 0.00%

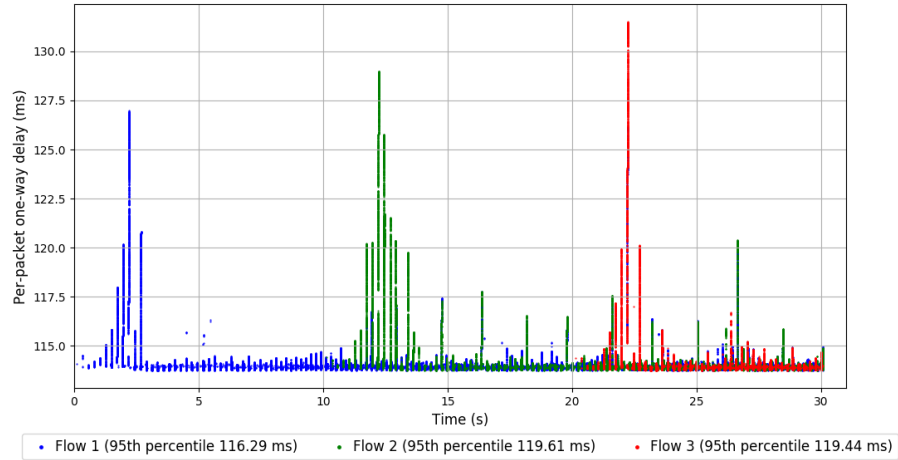
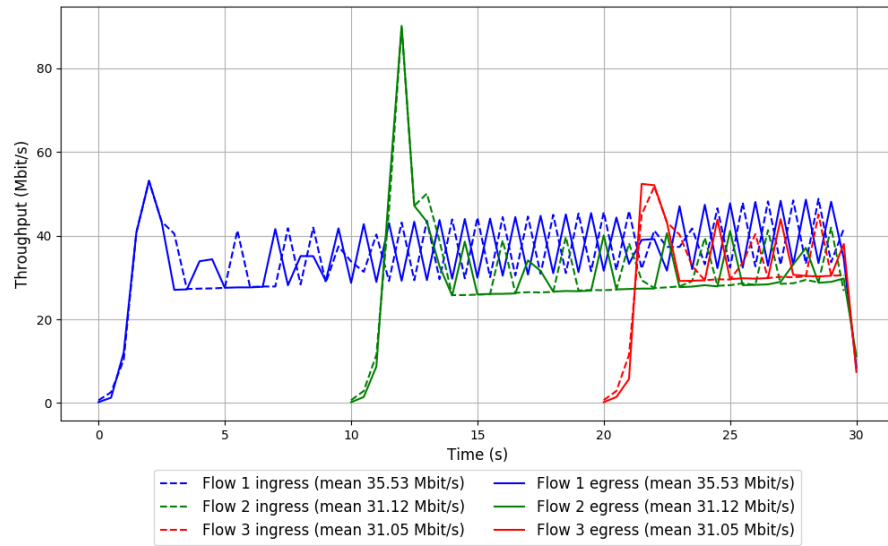
-- Flow 3:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 119.444 ms

Loss rate: 0.00%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-12 06:47:15

End at: 2017-10-12 06:47:45

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 116.095 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 115.373 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 33.09 Mbit/s

95th percentile per-packet one-way delay: 115.469 ms

Loss rate: 0.05%

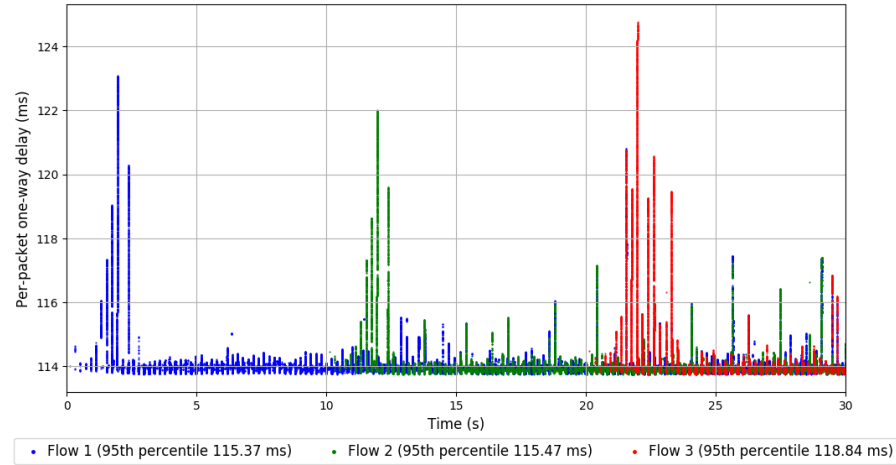
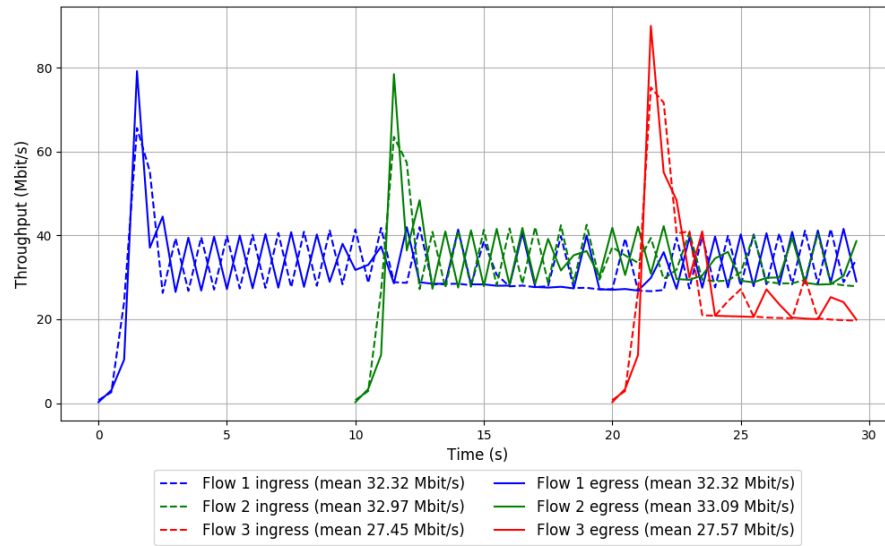
-- Flow 3:

Average throughput: 27.57 Mbit/s

95th percentile per-packet one-way delay: 118.841 ms

Loss rate: 0.01%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-12 07:00:44

End at: 2017-10-12 07:01:14

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 116.58 Mbit/s

95th percentile per-packet one-way delay: 120.040 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 117.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.26 Mbit/s

95th percentile per-packet one-way delay: 121.394 ms

Loss rate: 0.00%

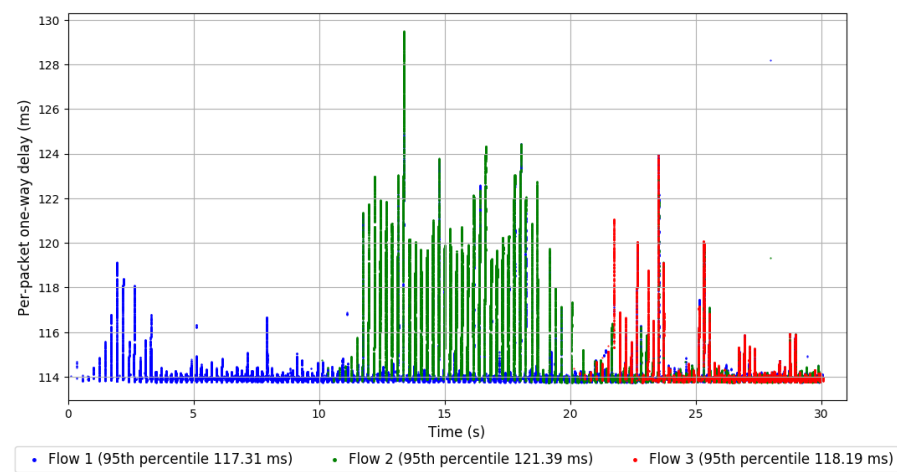
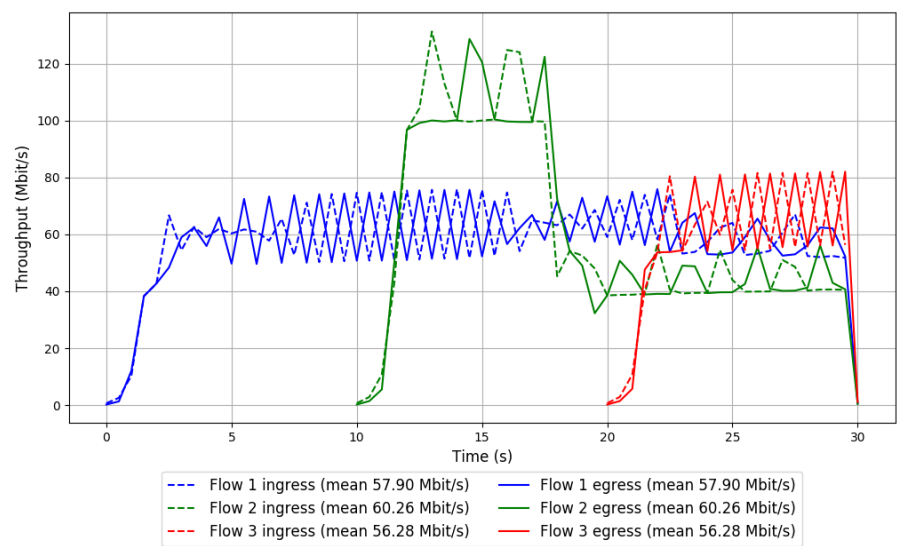
-- Flow 3:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 118.193 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-12 07:13:54

End at: 2017-10-12 07:14:24

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 115.694 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 115.342 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 116.369 ms

Loss rate: 0.00%

-- Flow 3:

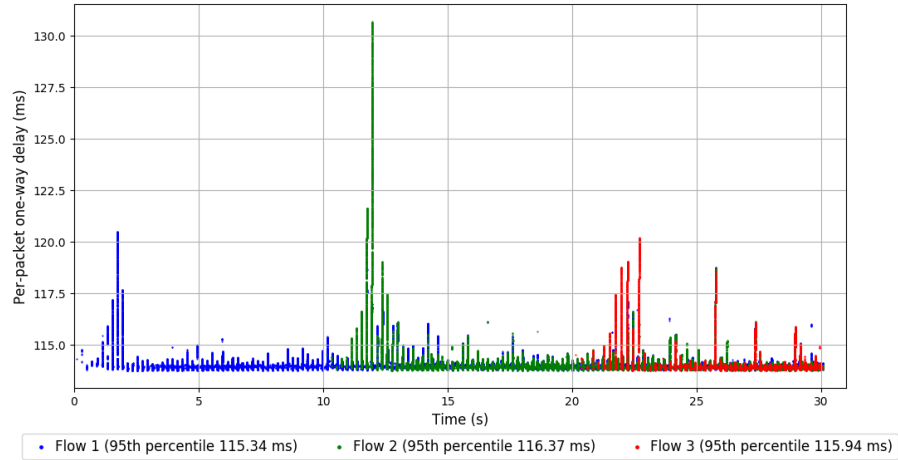
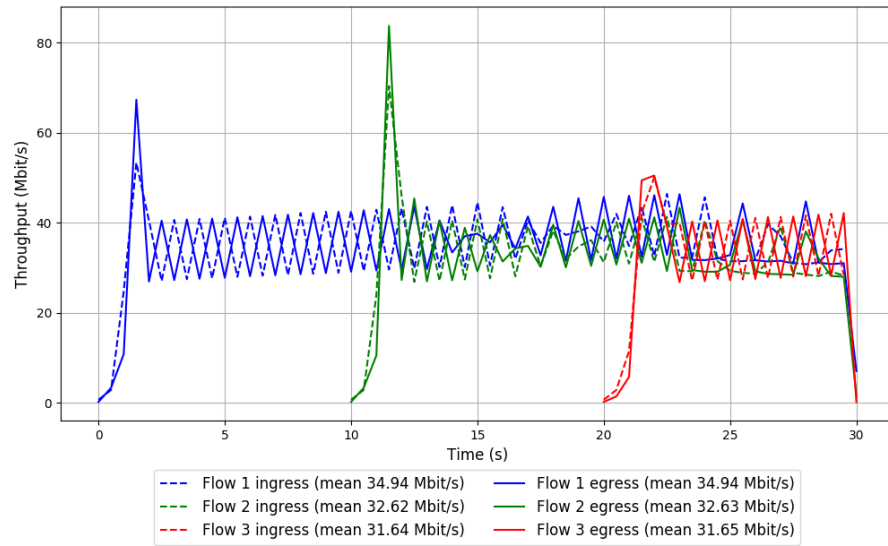
Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 115.943 ms

Loss rate: 0.00%



## Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-12 07:27:24

End at: 2017-10-12 07:27:54

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 116.445 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 115.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 117.212 ms

Loss rate: 0.00%

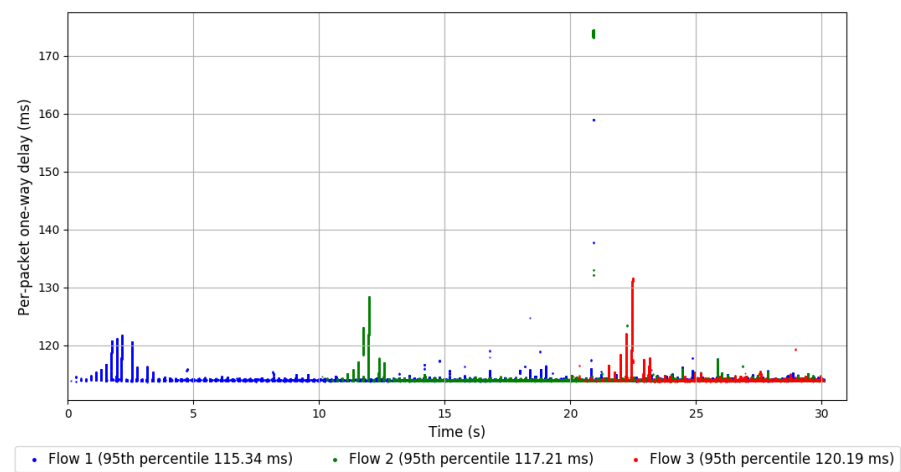
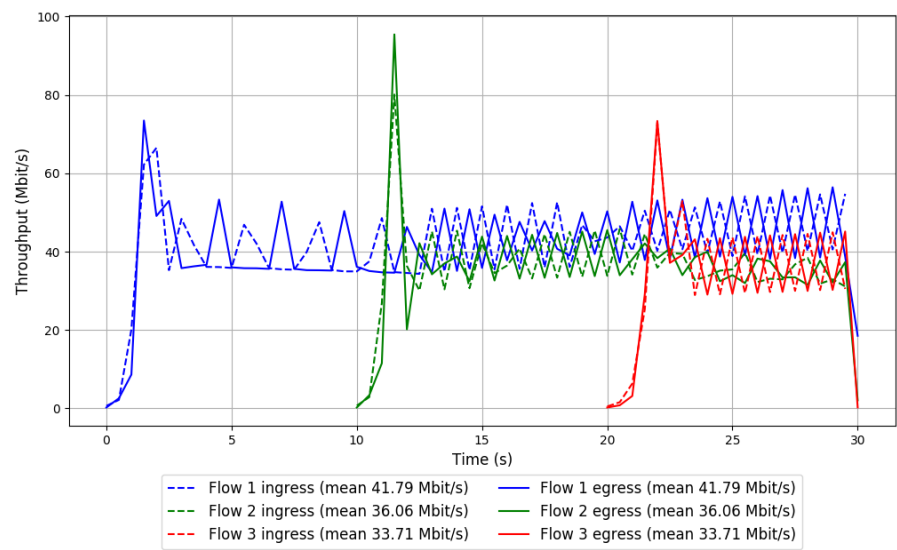
-- Flow 3:

Average throughput: 33.71 Mbit/s

95th percentile per-packet one-way delay: 120.195 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-12 07:40:51

End at: 2017-10-12 07:41:21

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 119.05 Mbit/s

95th percentile per-packet one-way delay: 122.461 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.22 Mbit/s

95th percentile per-packet one-way delay: 119.305 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 124.894 ms

Loss rate: 0.00%

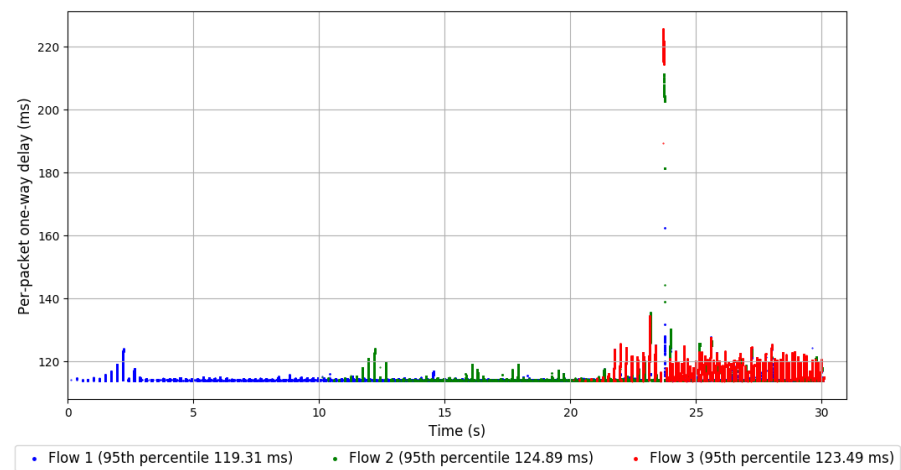
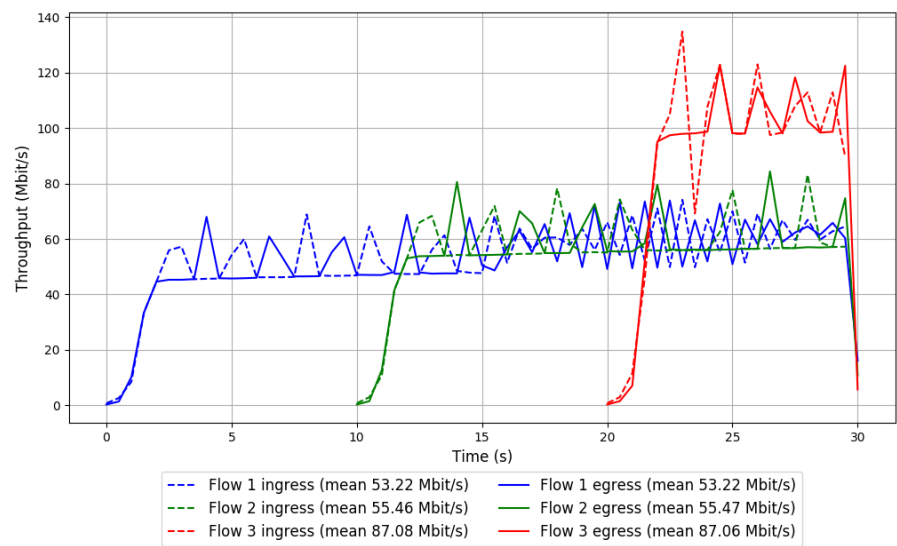
-- Flow 3:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 123.493 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-12 07:54:38

End at: 2017-10-12 07:55:08

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 115.588 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 115.180 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 116.824 ms

Loss rate: 0.00%

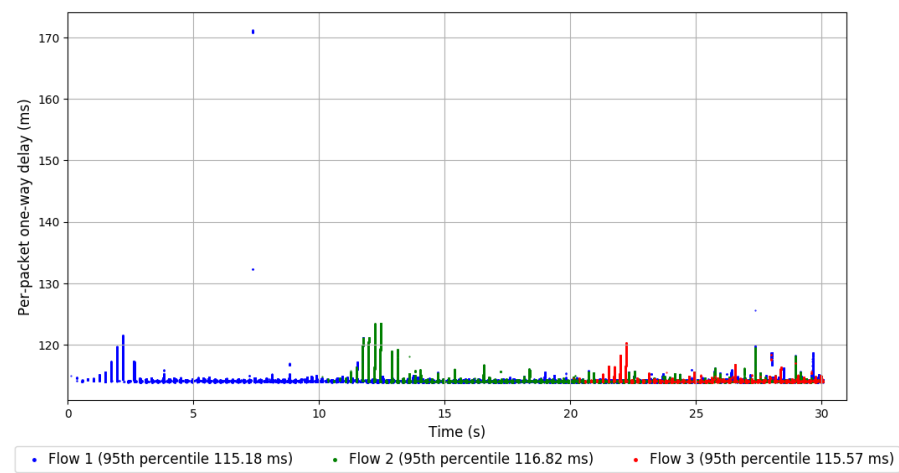
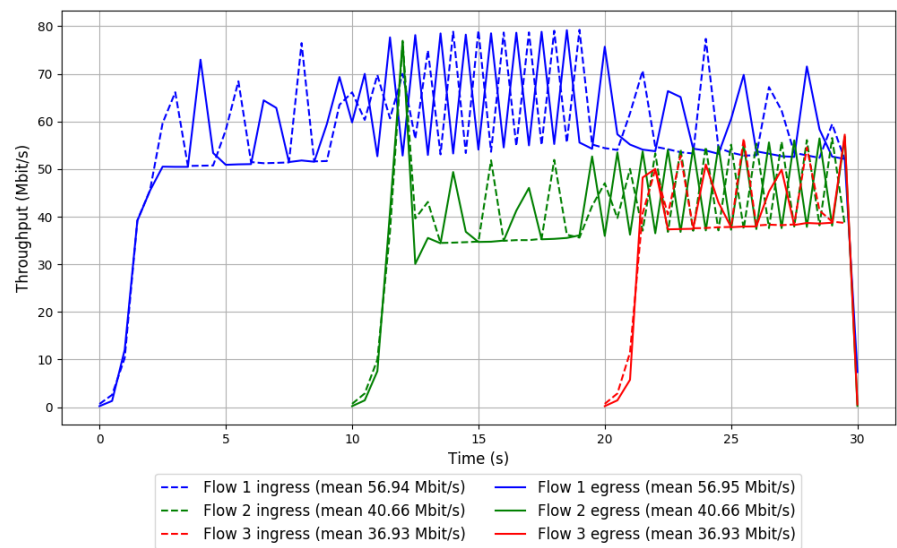
-- Flow 3:

Average throughput: 36.93 Mbit/s

95th percentile per-packet one-way delay: 115.572 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



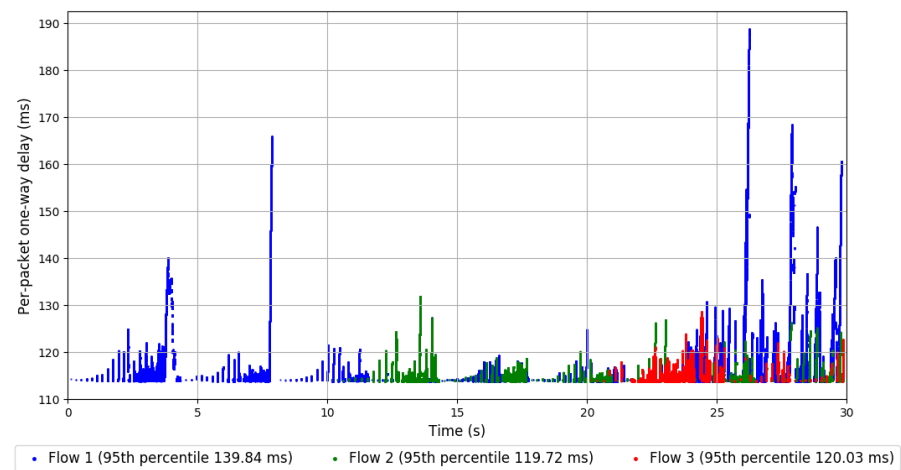
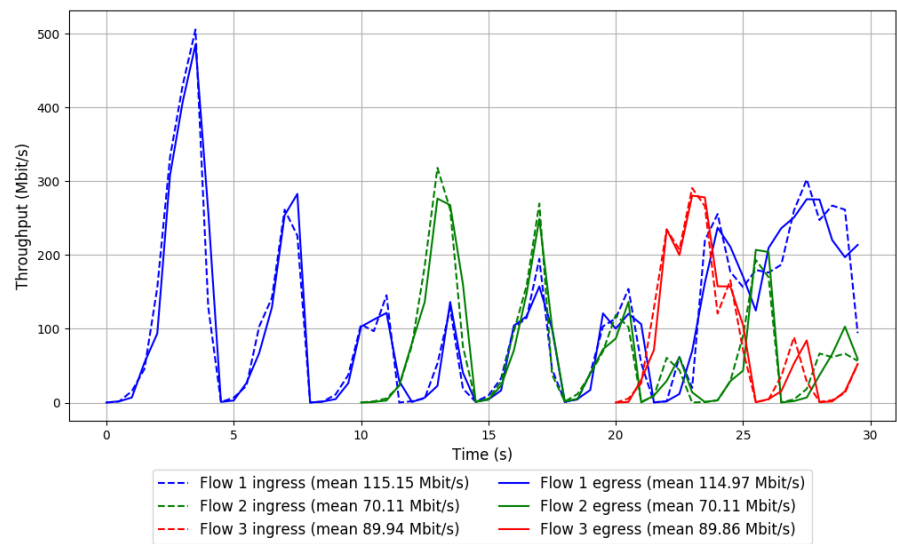
```
Run 1: Statistics of Verus

Start at: 2017-10-12 05:51:34
End at: 2017-10-12 05:52:04

# Below is generated by plot.py at 2017-10-12 09:28:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.42 Mbit/s
95th percentile per-packet one-way delay: 134.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 114.97 Mbit/s
95th percentile per-packet one-way delay: 139.835 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.11 Mbit/s
95th percentile per-packet one-way delay: 119.718 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.86 Mbit/s
95th percentile per-packet one-way delay: 120.031 ms
Loss rate: 0.00%
```



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-12 06:05:06

End at: 2017-10-12 06:05:36

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 214.018 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 76.04 Mbit/s

95th percentile per-packet one-way delay: 146.431 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 142.38 Mbit/s

95th percentile per-packet one-way delay: 148.695 ms

Loss rate: 0.00%

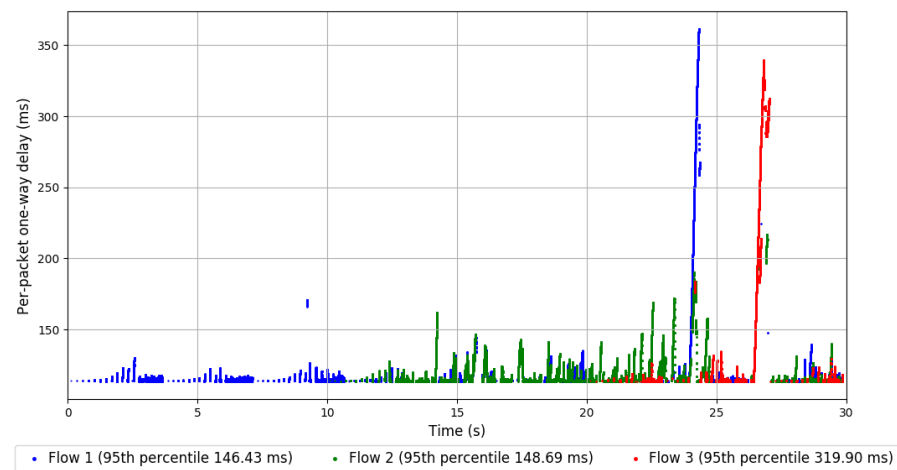
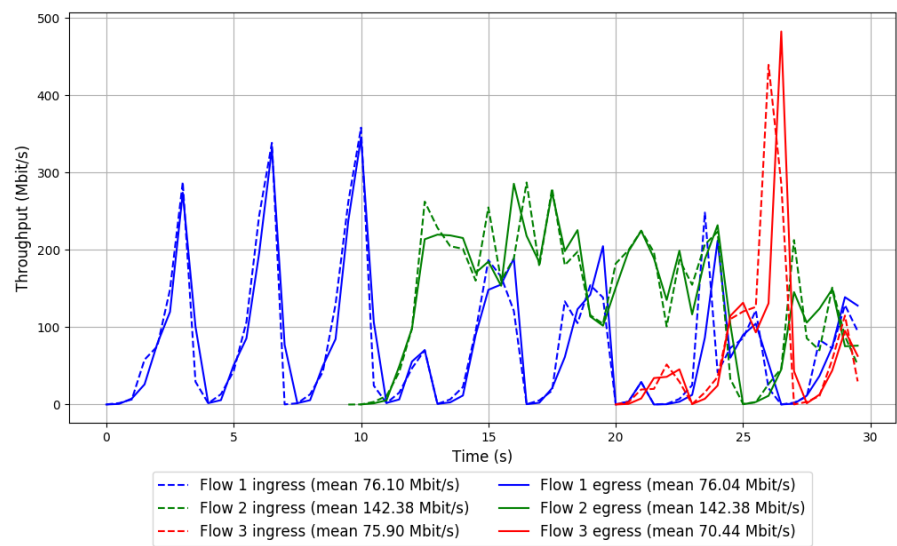
-- Flow 3:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 319.901 ms

Loss rate: 7.17%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-12 06:18:29

End at: 2017-10-12 06:18:59

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 278.39 Mbit/s

95th percentile per-packet one-way delay: 298.483 ms

Loss rate: 4.24%

-- Flow 1:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 314.919 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 97.54 Mbit/s

95th percentile per-packet one-way delay: 210.246 ms

Loss rate: 0.32%

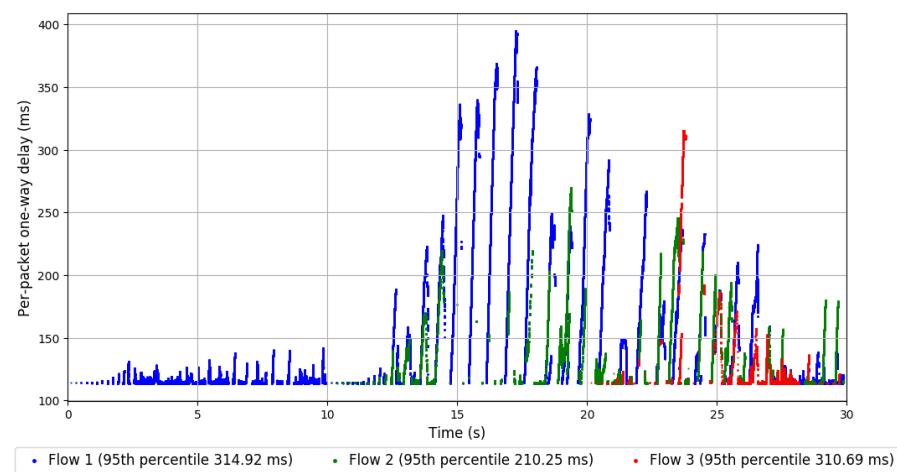
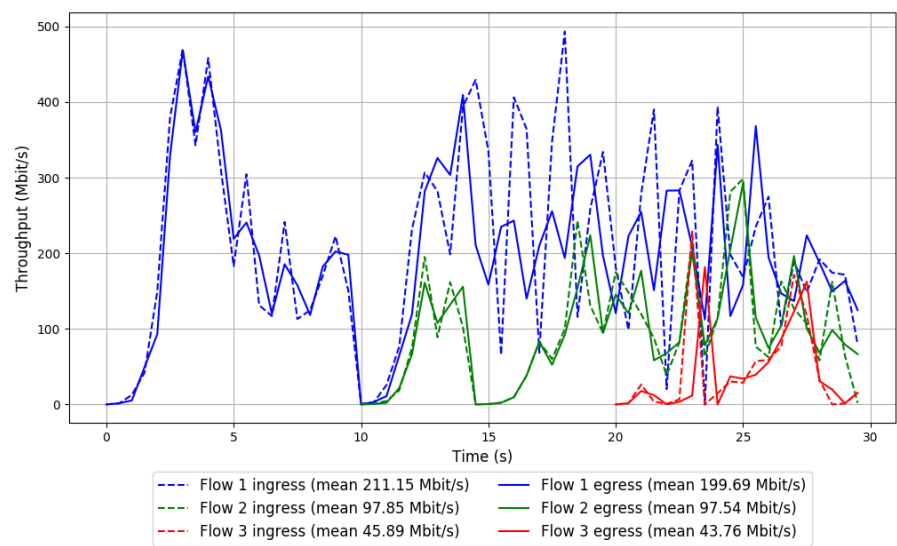
-- Flow 3:

Average throughput: 43.76 Mbit/s

95th percentile per-packet one-way delay: 310.688 ms

Loss rate: 4.56%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-12 06:31:57

End at: 2017-10-12 06:32:27

# Below is generated by plot.py at 2017-10-12 09:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 275.21 Mbit/s

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

Loss rate: 0.13%

-- Flow 1:

Average throughput: 203.51 Mbit/s

95th percentile per-packet one-way delay: 201.826 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 77.63 Mbit/s

95th percentile per-packet one-way delay: 157.461 ms

Loss rate: 0.03%

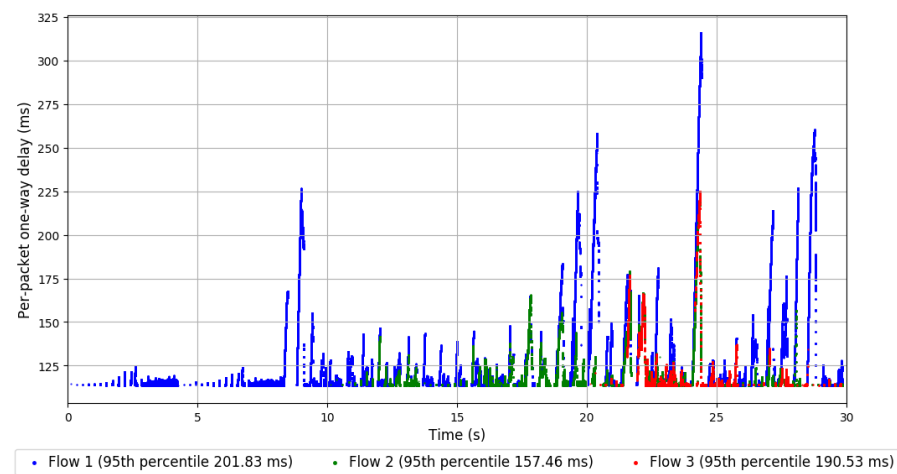
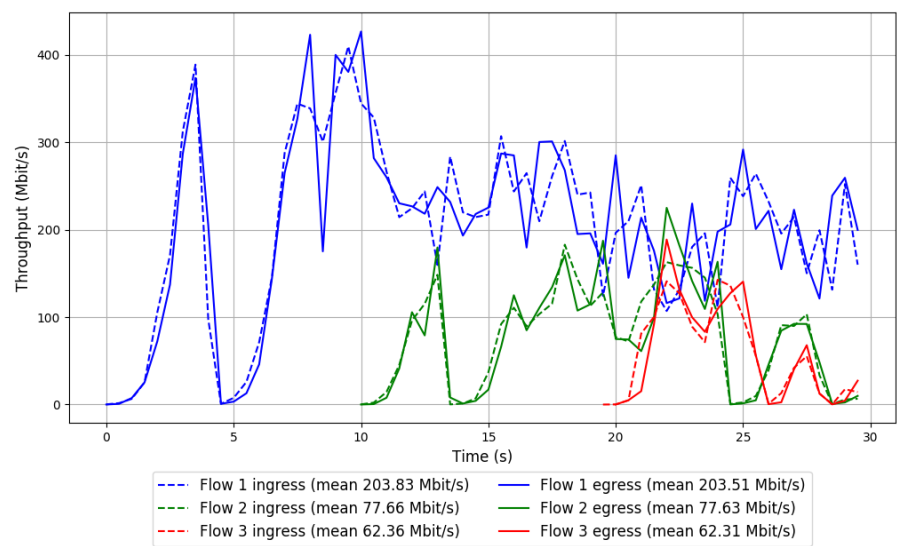
-- Flow 3:

Average throughput: 62.31 Mbit/s

95th percentile per-packet one-way delay: 190.531 ms

Loss rate: 0.07%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-12 06:45:21

End at: 2017-10-12 06:45:51

# Below is generated by plot.py at 2017-10-12 09:28:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 285.96 Mbit/s

95th percentile per-packet one-way delay: 189.905 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 212.84 Mbit/s

95th percentile per-packet one-way delay: 196.415 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.73 Mbit/s

95th percentile per-packet one-way delay: 175.007 ms

Loss rate: 0.00%

-- Flow 3:

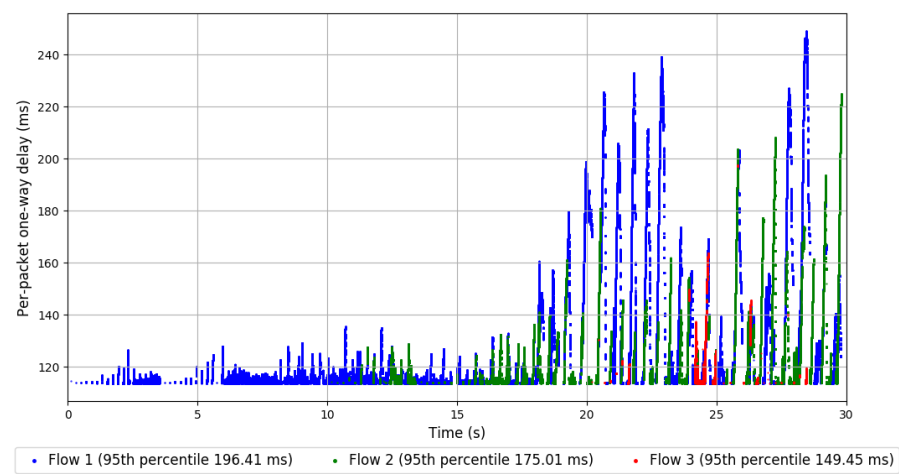
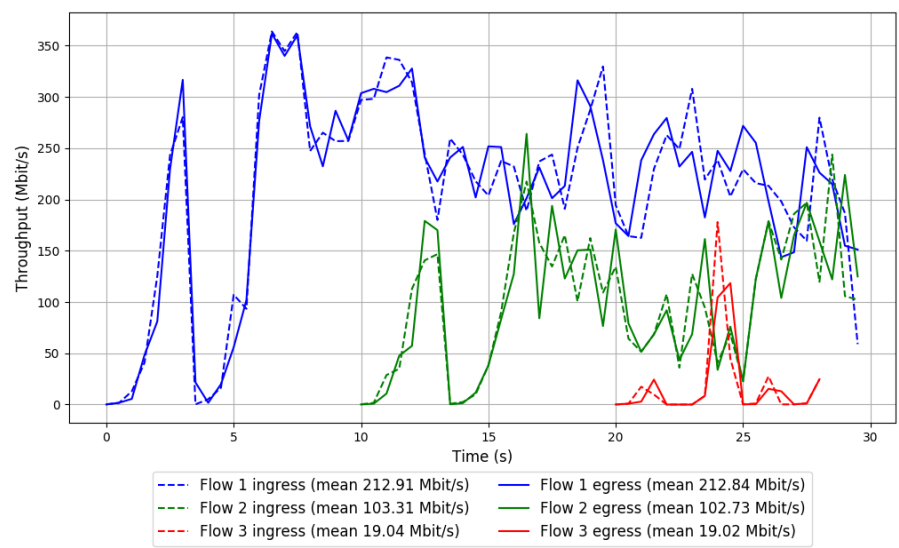
Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 149.450 ms

Loss rate: 0.00%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-12 06:58:50

End at: 2017-10-12 06:59:20

# Below is generated by plot.py at 2017-10-12 09:28:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 283.93 Mbit/s

95th percentile per-packet one-way delay: 178.726 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 179.24 Mbit/s

95th percentile per-packet one-way delay: 192.342 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 142.81 Mbit/s

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

Loss rate: 0.00%

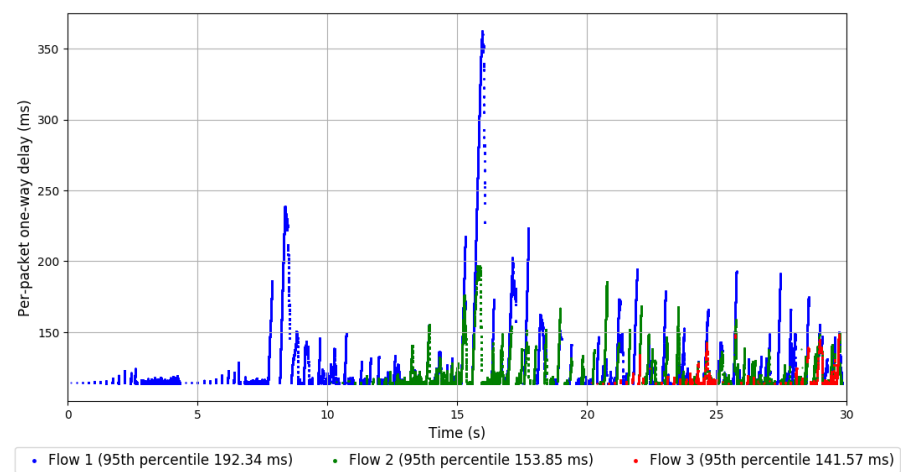
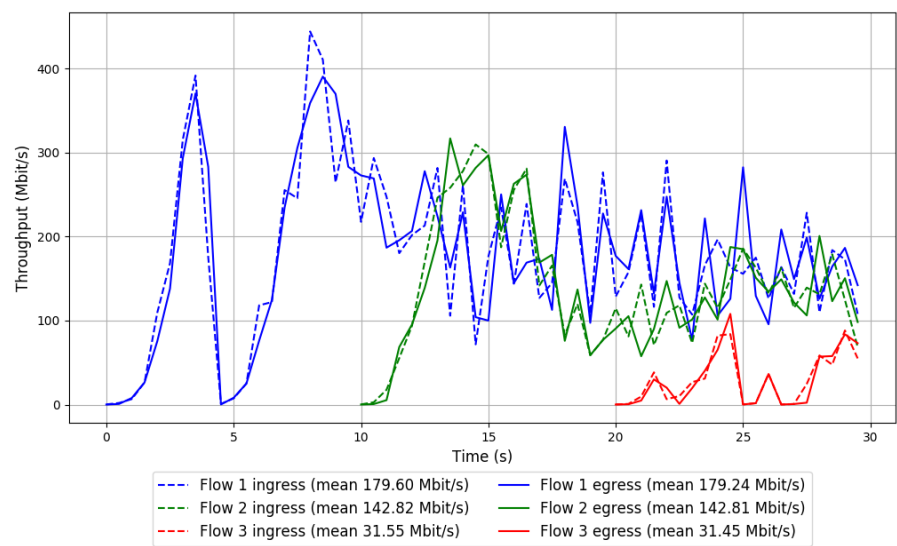
-- Flow 3:

Average throughput: 31.45 Mbit/s

95th percentile per-packet one-way delay: 141.574 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link

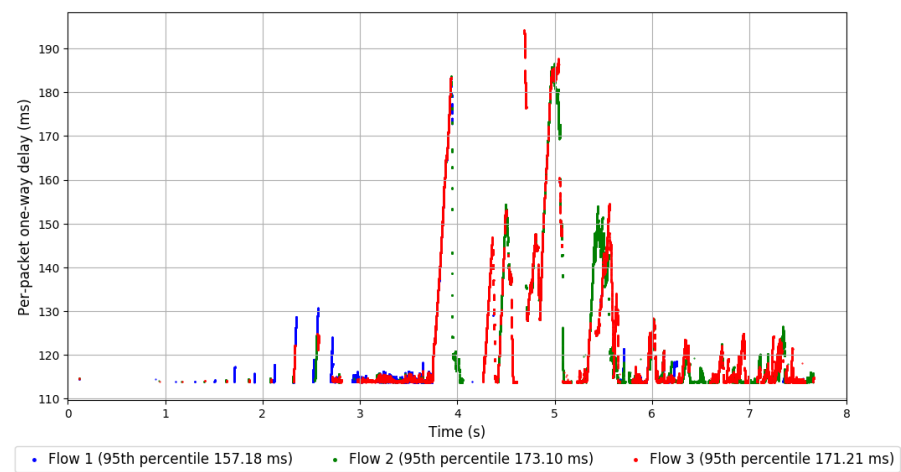
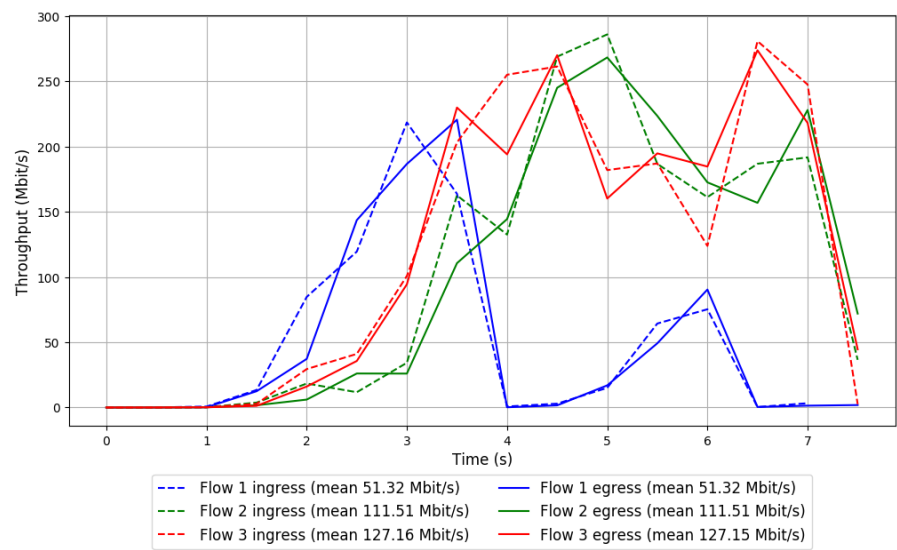


Run 7: Statistics of Verus

Start at: 2017-10-12 07:12:18

End at: 2017-10-12 07:12:48

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-12 07:25:35

End at: 2017-10-12 07:26:05

# Below is generated by plot.py at 2017-10-12 09:28:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 182.67 Mbit/s

95th percentile per-packet one-way delay: 188.928 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 77.83 Mbit/s

95th percentile per-packet one-way delay: 130.651 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 268.108 ms

Loss rate: 2.90%

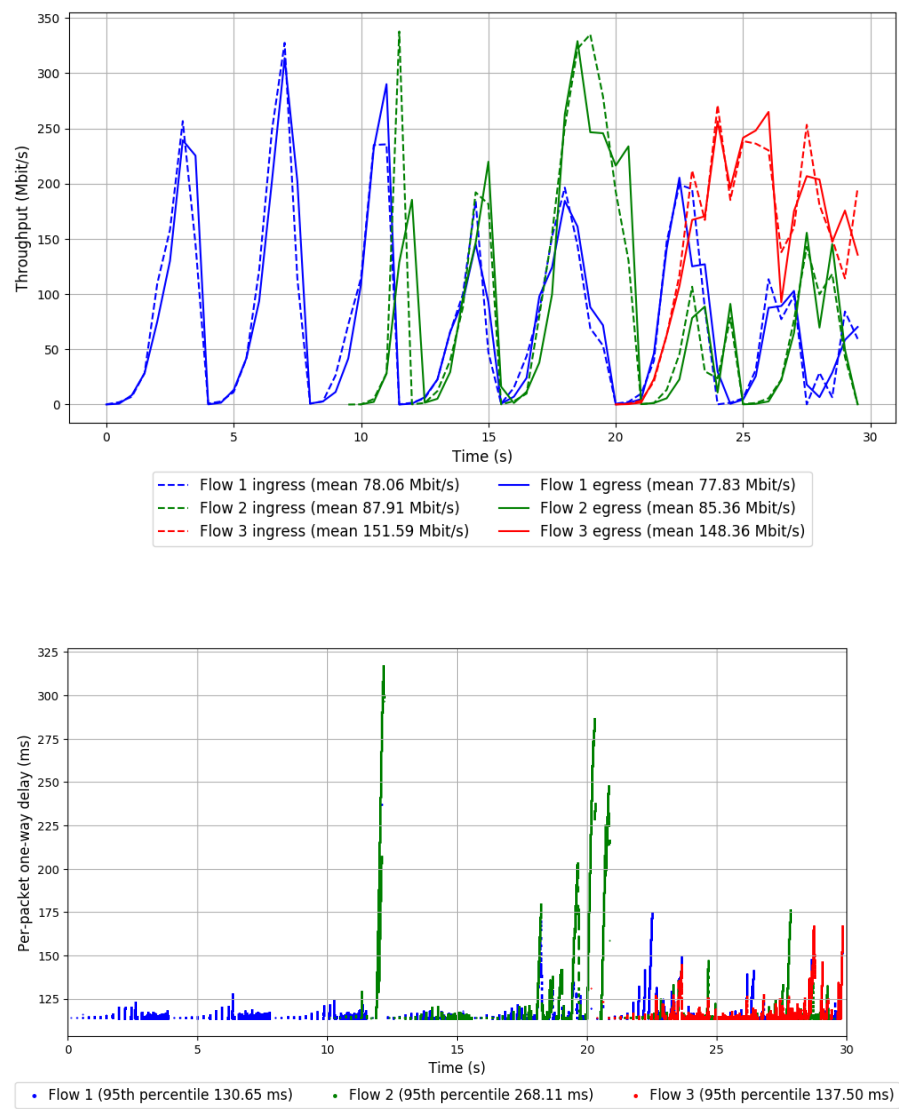
-- Flow 3:

Average throughput: 148.36 Mbit/s

95th percentile per-packet one-way delay: 137.498 ms

Loss rate: 2.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-12 07:39:04

End at: 2017-10-12 07:39:34

# Below is generated by plot.py at 2017-10-12 09:28:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 197.82 Mbit/s

95th percentile per-packet one-way delay: 187.719 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 122.02 Mbit/s

95th percentile per-packet one-way delay: 195.709 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 101.55 Mbit/s

95th percentile per-packet one-way delay: 144.858 ms

Loss rate: 0.00%

-- Flow 3:

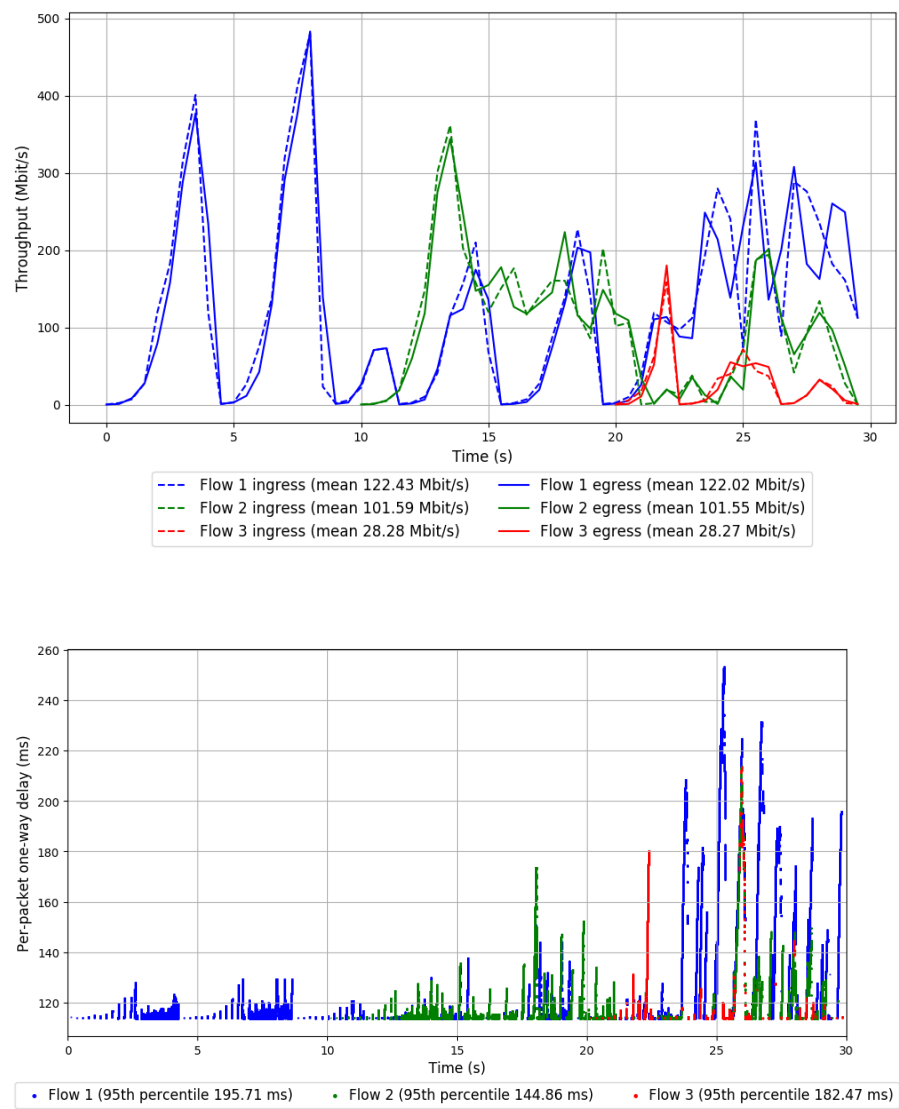
Average throughput: 28.27 Mbit/s

95th percentile per-packet one-way delay: 182.469 ms

Loss rate: 0.00%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-12 07:52:43

End at: 2017-10-12 07:53:13

# Below is generated by plot.py at 2017-10-12 09:31:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 272.26 Mbit/s

95th percentile per-packet one-way delay: 233.865 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 188.73 Mbit/s

95th percentile per-packet one-way delay: 258.244 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 108.23 Mbit/s

95th percentile per-packet one-way delay: 170.725 ms

Loss rate: 0.00%

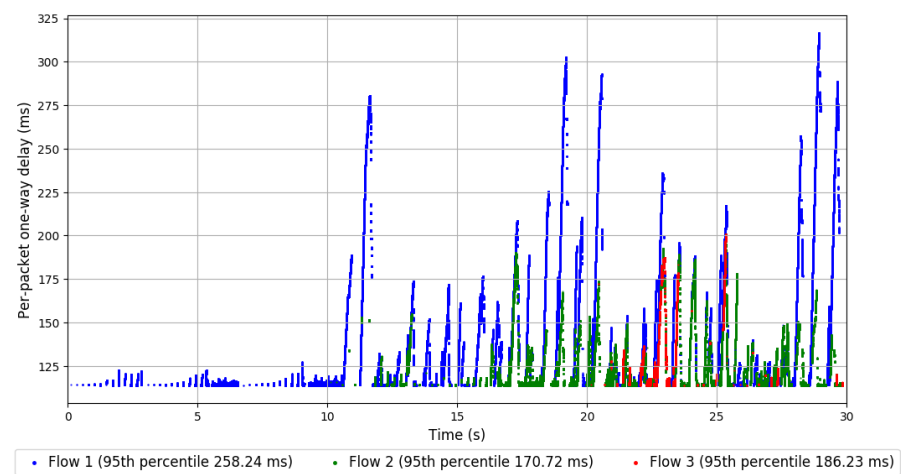
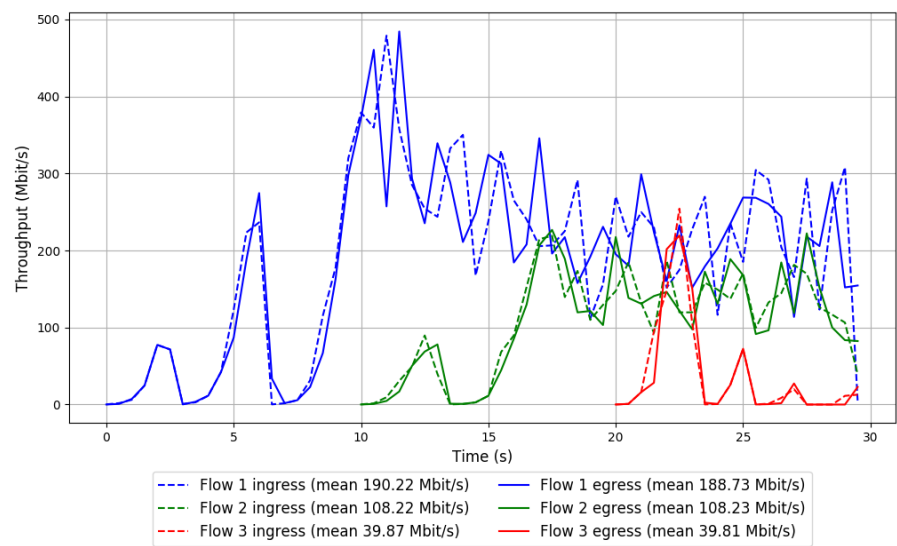
-- Flow 3:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 186.227 ms

Loss rate: 0.17%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-10-12 05:50:34

End at: 2017-10-12 05:51:04

# Below is generated by plot.py at 2017-10-12 09:31:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 138.42 Mbit/s

95th percentile per-packet one-way delay: 113.998 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 113.932 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 114.092 ms

Loss rate: 0.00%

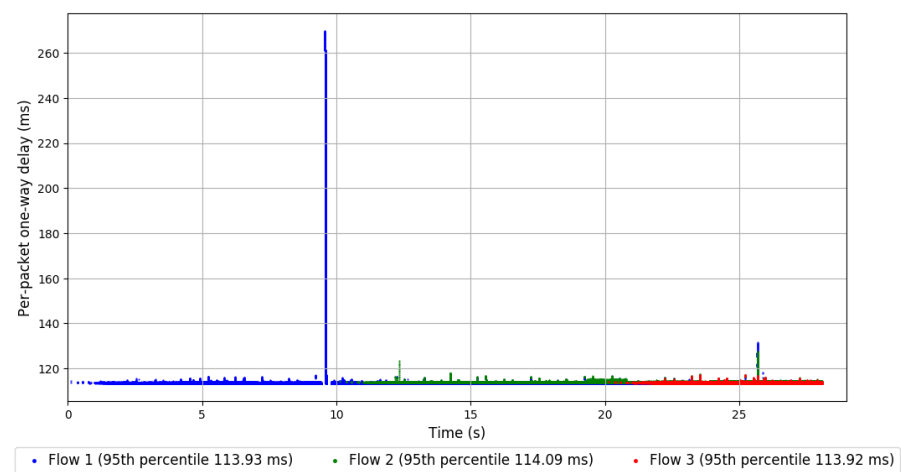
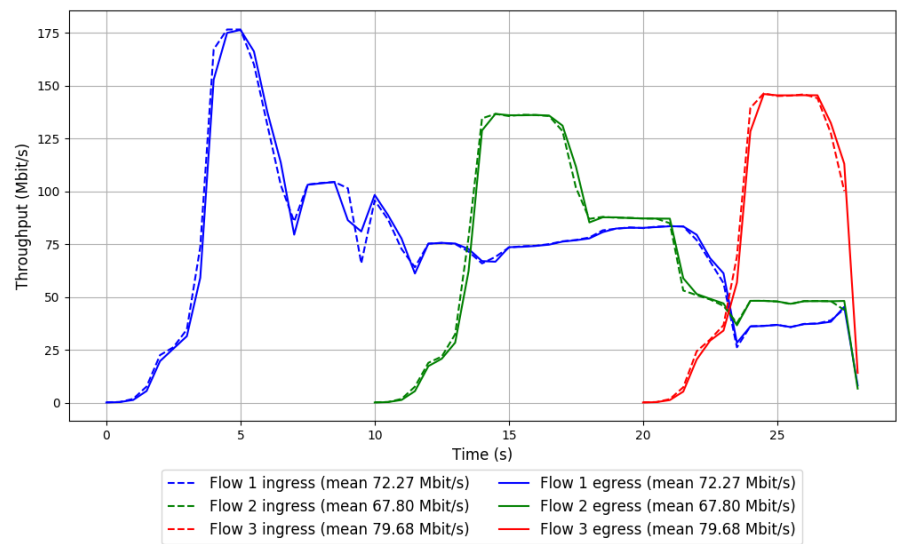
-- Flow 3:

Average throughput: 79.68 Mbit/s

95th percentile per-packet one-way delay: 113.924 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-12 06:04:05

End at: 2017-10-12 06:04:35

# Below is generated by plot.py at 2017-10-12 09:31:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 138.35 Mbit/s

95th percentile per-packet one-way delay: 113.986 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.84 Mbit/s

95th percentile per-packet one-way delay: 113.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 113.979 ms

Loss rate: 0.00%

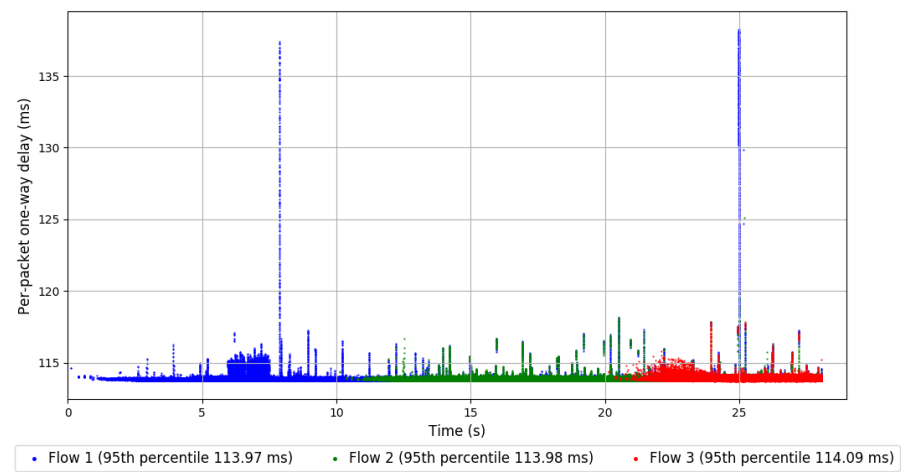
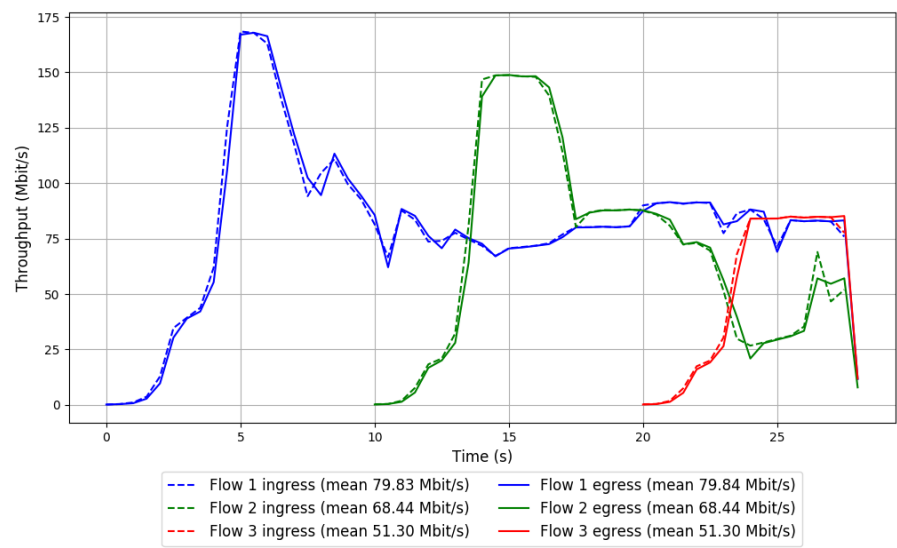
-- Flow 3:

Average throughput: 51.30 Mbit/s

95th percentile per-packet one-way delay: 114.092 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-12 06:17:30

End at: 2017-10-12 06:18:00

# Below is generated by plot.py at 2017-10-12 09:31:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 132.23 Mbit/s

95th percentile per-packet one-way delay: 113.921 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 113.924 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.61 Mbit/s

95th percentile per-packet one-way delay: 113.915 ms

Loss rate: 0.00%

-- Flow 3:

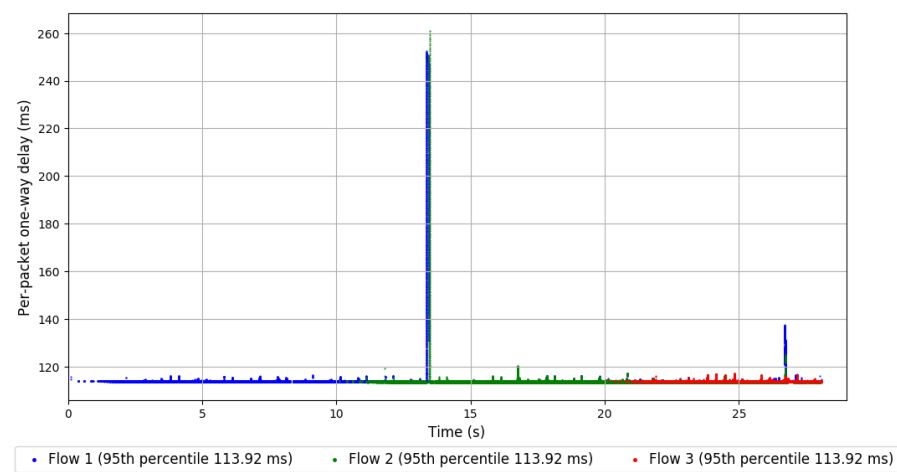
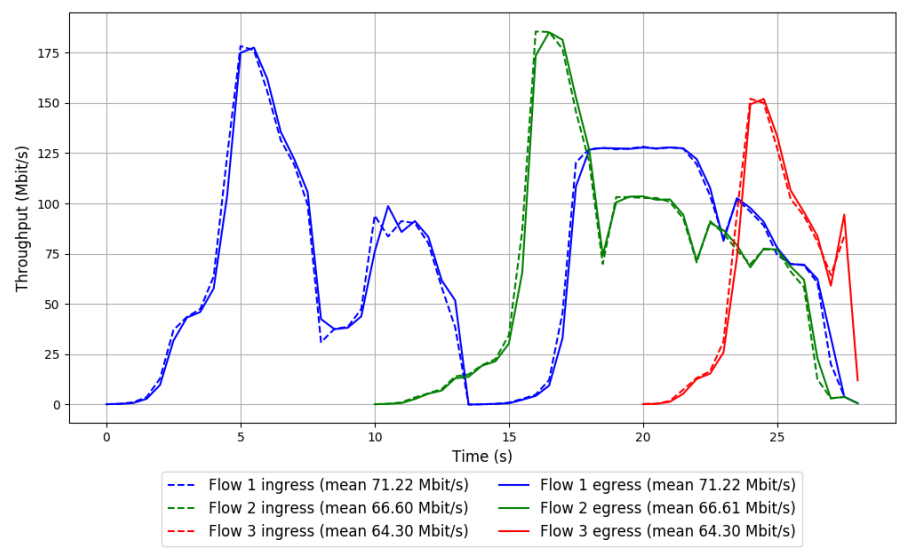
Average throughput: 64.30 Mbit/s

95th percentile per-packet one-way delay: 113.924 ms

Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-12 06:31:00

End at: 2017-10-12 06:31:30

# Below is generated by plot.py at 2017-10-12 09:31:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.09 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.78 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 113.904 ms

Loss rate: 0.00%

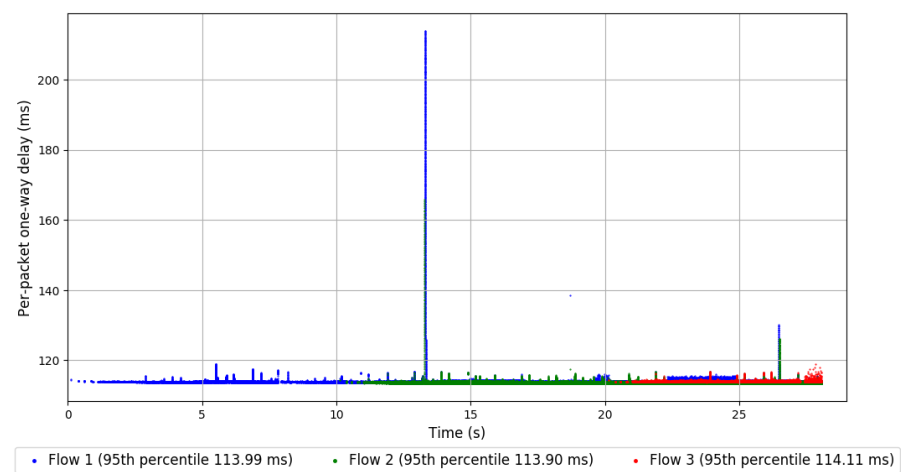
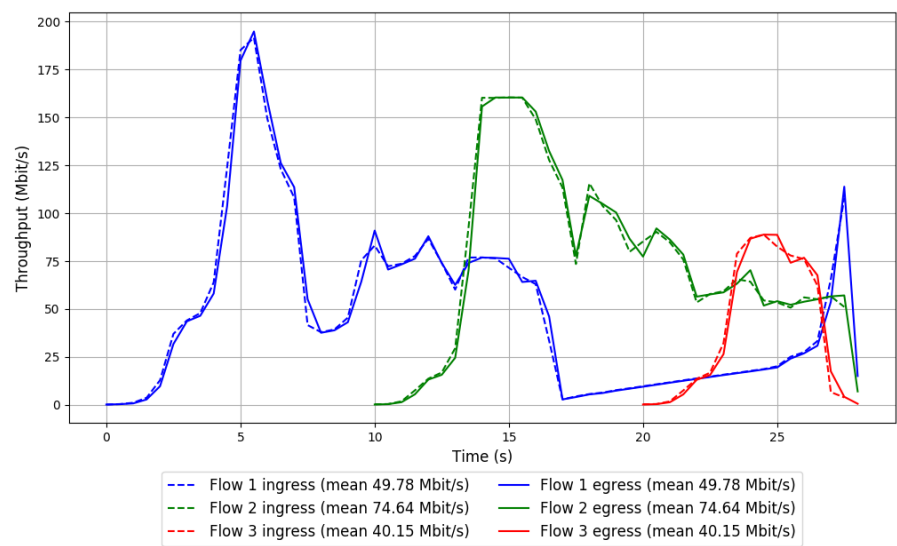
-- Flow 3:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 114.114 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-12 06:44:24

End at: 2017-10-12 06:44:54

# Below is generated by plot.py at 2017-10-12 09:31:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 101.22 Mbit/s

95th percentile per-packet one-way delay: 113.925 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 113.940 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 113.919 ms

Loss rate: 0.00%

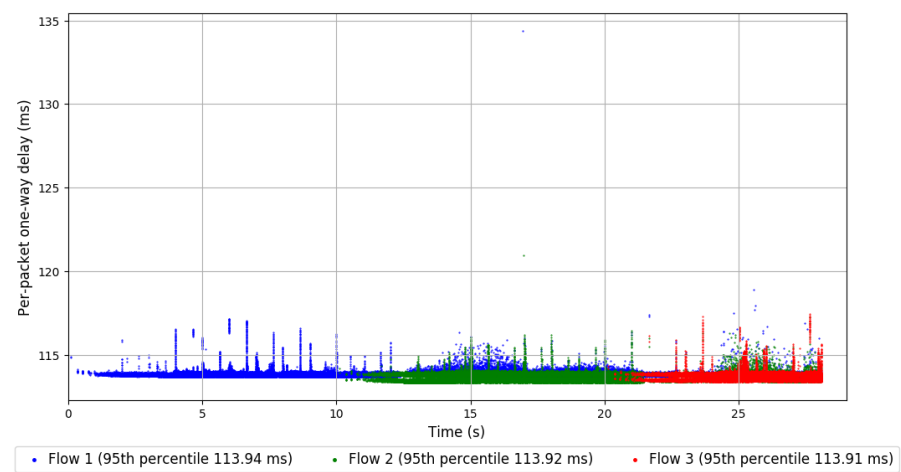
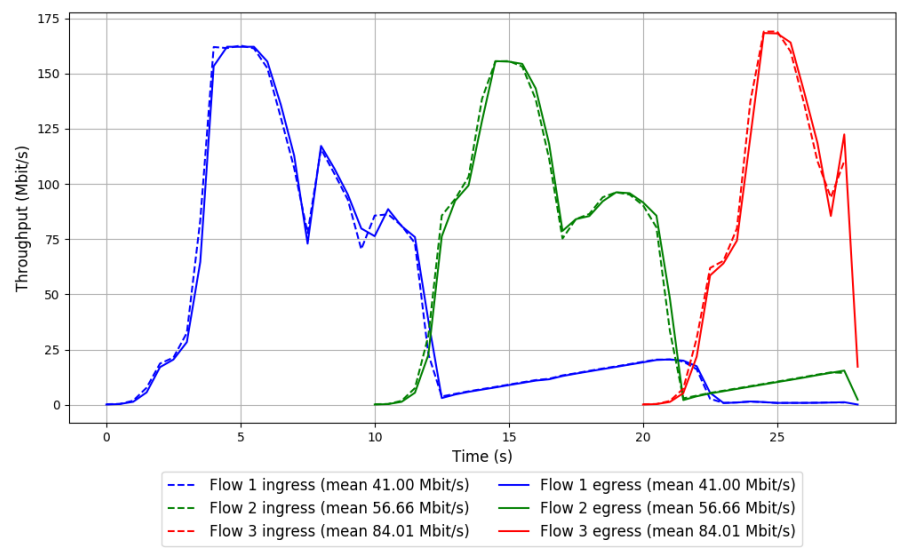
-- Flow 3:

Average throughput: 84.01 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-12 06:57:51

End at: 2017-10-12 06:58:21

# Below is generated by plot.py at 2017-10-12 09:32:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 131.34 Mbit/s

95th percentile per-packet one-way delay: 114.009 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.60 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 114.030 ms

Loss rate: 0.00%

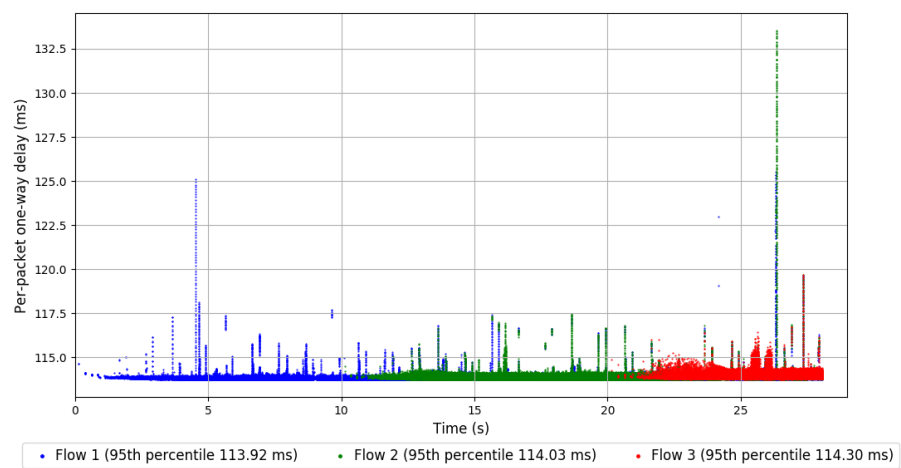
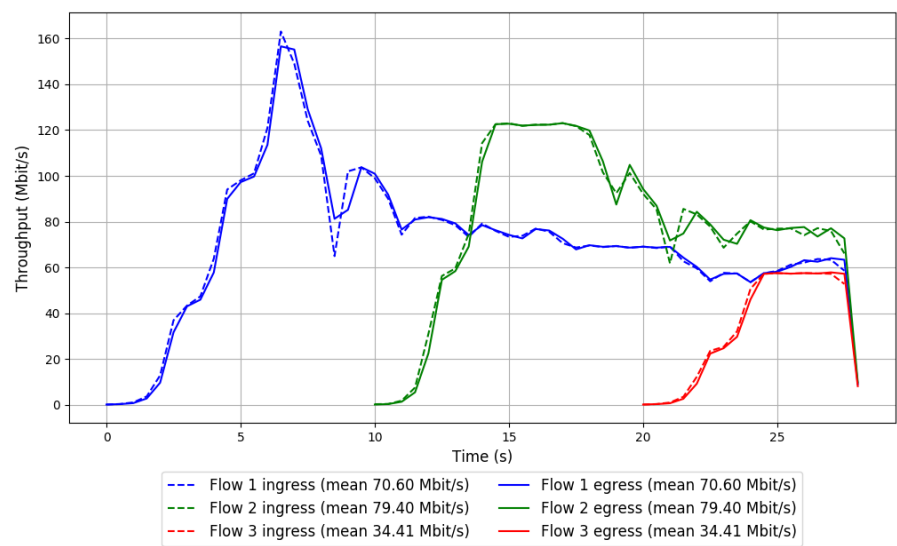
-- Flow 3:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 114.302 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-12 07:11:20

End at: 2017-10-12 07:11:50

# Below is generated by plot.py at 2017-10-12 09:32:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 119.40 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 114.033 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 3:

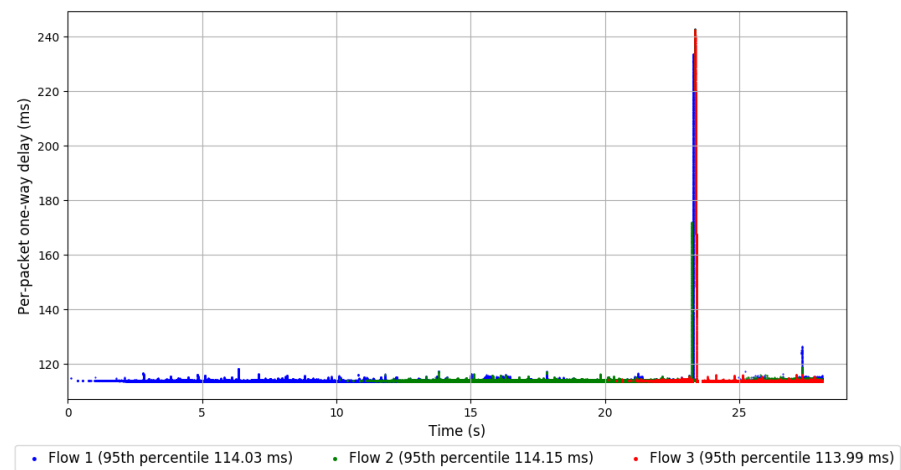
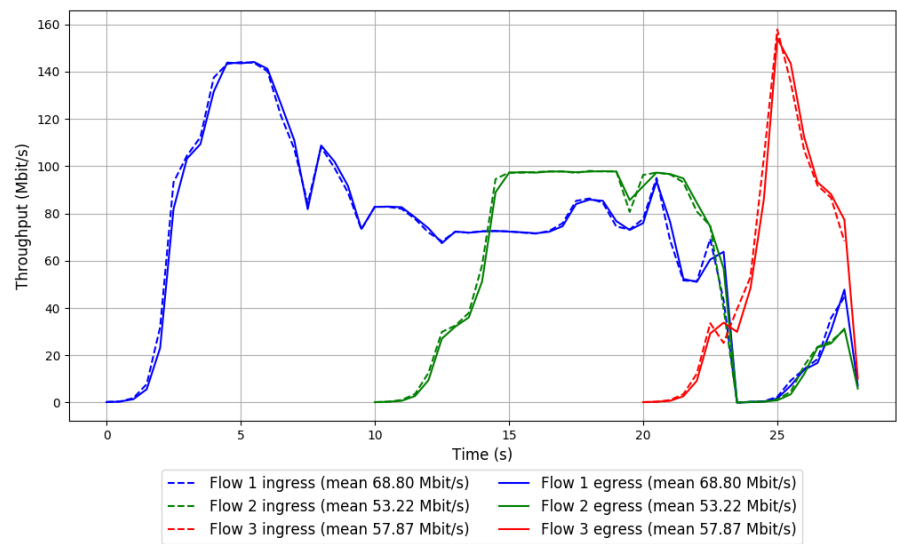
Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 113.986 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-12 07:24:35

End at: 2017-10-12 07:25:05

# Below is generated by plot.py at 2017-10-12 09:34:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 132.94 Mbit/s

95th percentile per-packet one-way delay: 114.034 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 114.042 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 114.029 ms

Loss rate: 0.00%

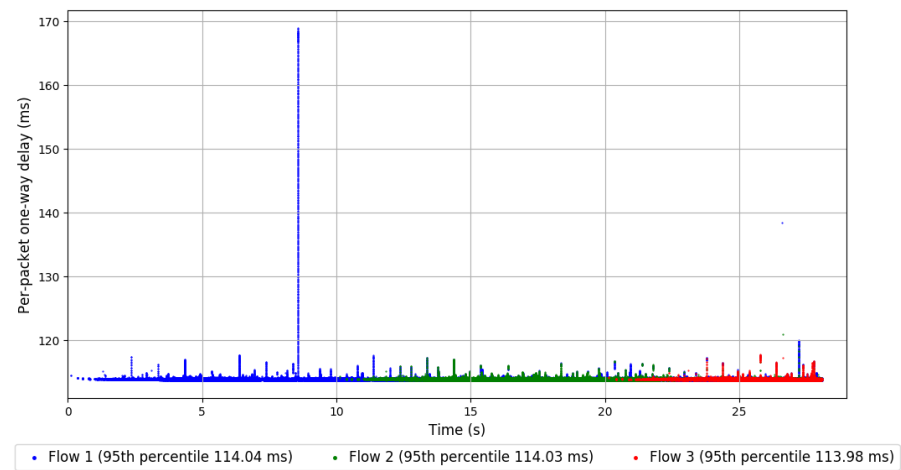
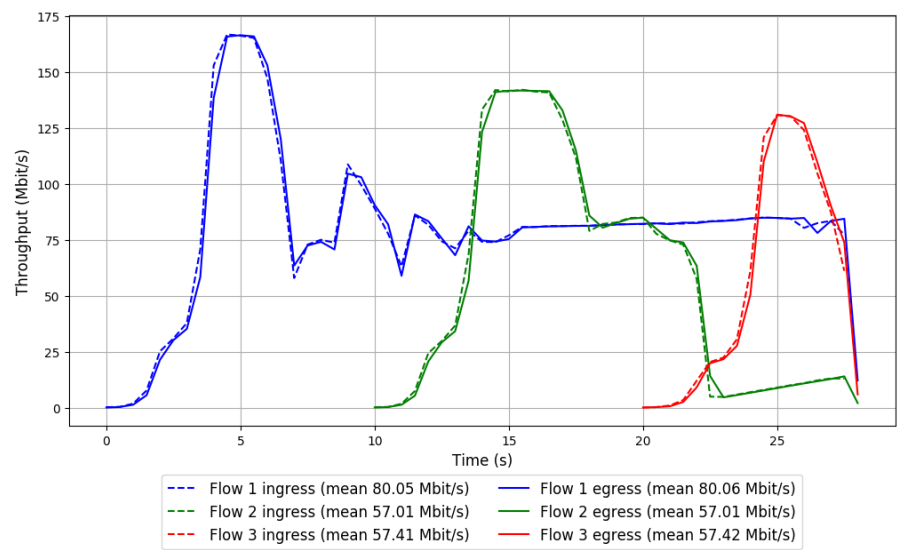
-- Flow 3:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 113.978 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-12 07:38:12

End at: 2017-10-12 07:38:42

# Below is generated by plot.py at 2017-10-12 09:34:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 114.077 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 114.195 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.69 Mbit/s

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

Loss rate: 0.00%

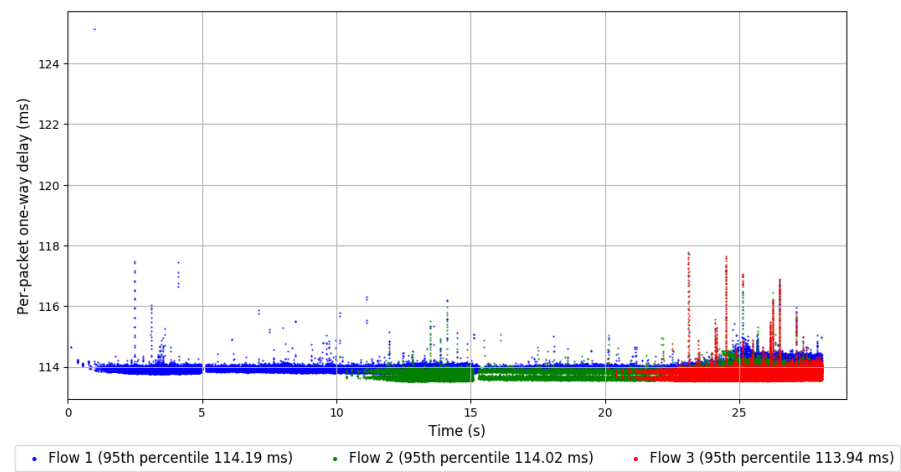
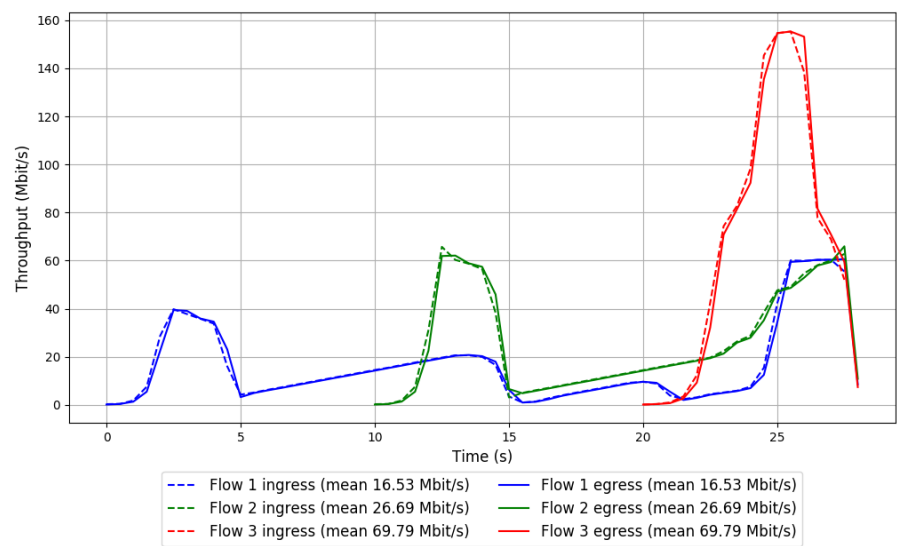
-- Flow 3:

Average throughput: 69.79 Mbit/s

95th percentile per-packet one-way delay: 113.939 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-12 07:51:46

End at: 2017-10-12 07:52:16

# Below is generated by plot.py at 2017-10-12 09:34:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 100.84 Mbit/s

95th percentile per-packet one-way delay: 114.126 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.71 Mbit/s

95th percentile per-packet one-way delay: 114.137 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.95 Mbit/s

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

Loss rate: 0.00%

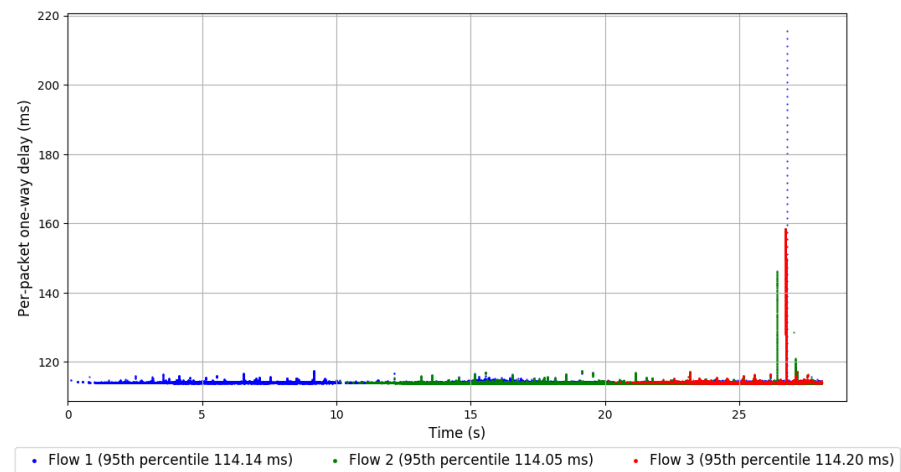
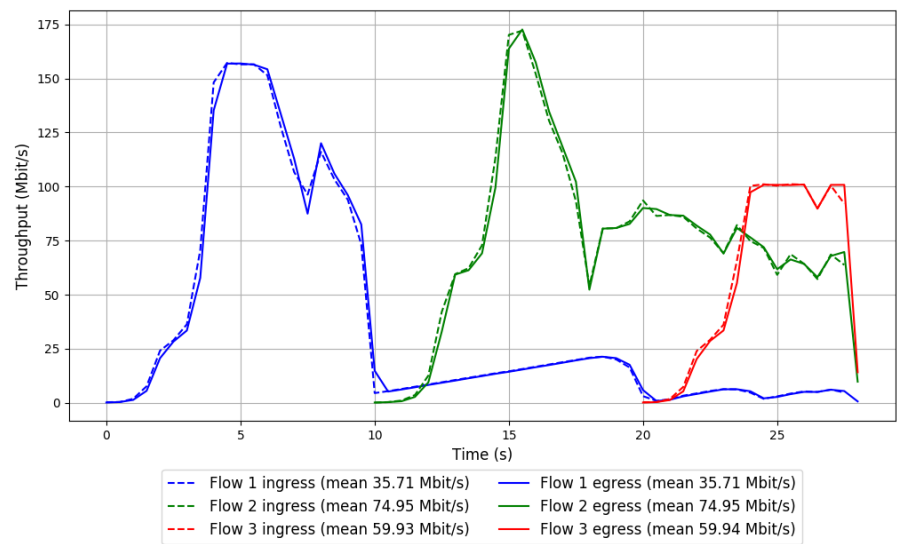
-- Flow 3:

Average throughput: 59.94 Mbit/s

95th percentile per-packet one-way delay: 114.205 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-10-12 05:44:54

End at: 2017-10-12 05:45:24

# Below is generated by plot.py at 2017-10-12 09:38:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 374.12 Mbit/s

95th percentile per-packet one-way delay: 138.270 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 285.09 Mbit/s

95th percentile per-packet one-way delay: 135.520 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 132.37 Mbit/s

95th percentile per-packet one-way delay: 144.441 ms

Loss rate: 0.00%

-- Flow 3:

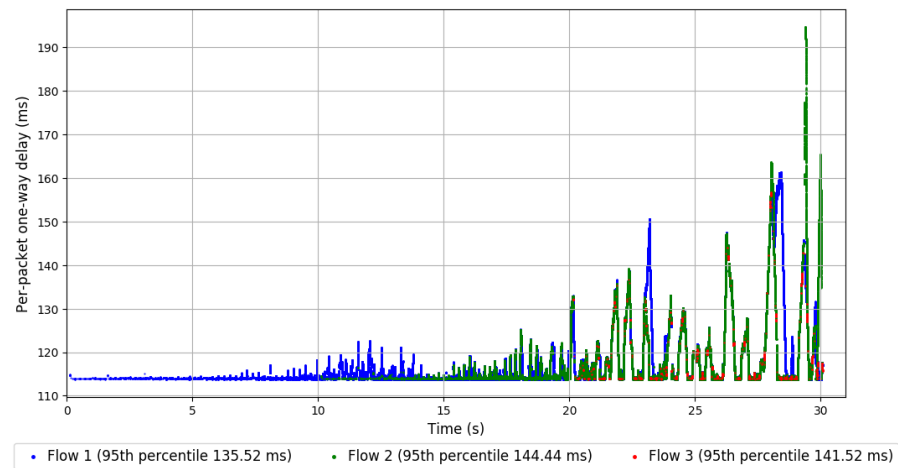
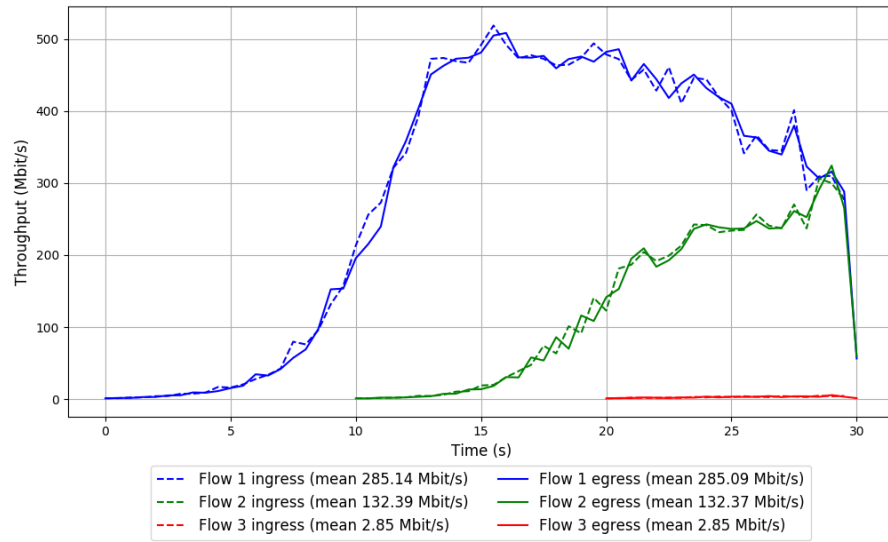
Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 141.519 ms

Loss rate: 0.21%



## Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-12 05:58:09

End at: 2017-10-12 05:58:39

# Below is generated by plot.py at 2017-10-12 09:38:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 352.92 Mbit/s

95th percentile per-packet one-way delay: 137.781 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 253.80 Mbit/s

95th percentile per-packet one-way delay: 138.142 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 147.56 Mbit/s

95th percentile per-packet one-way delay: 135.713 ms

Loss rate: 0.09%

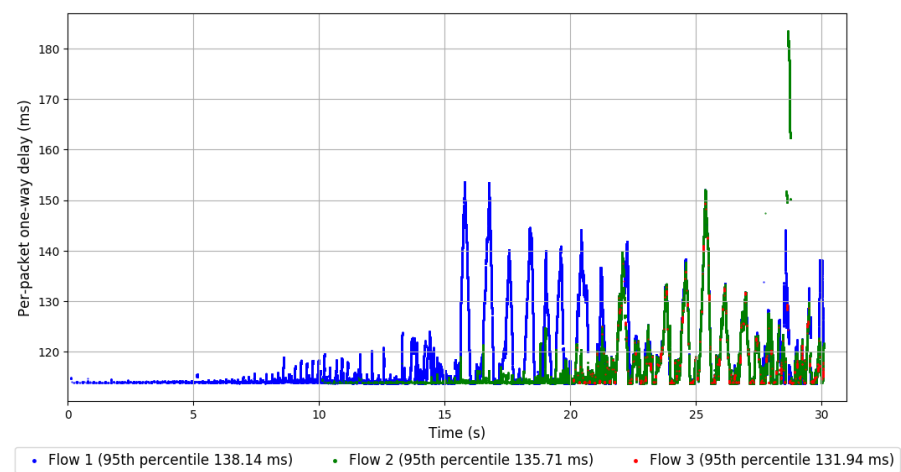
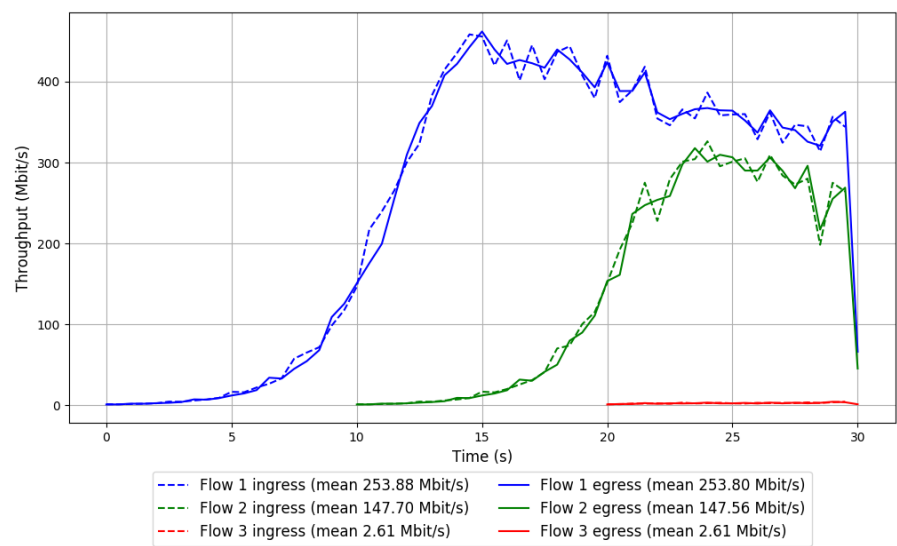
-- Flow 3:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 131.944 ms

Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-12 06:11:34

End at: 2017-10-12 06:12:04

# Below is generated by plot.py at 2017-10-12 09:38:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 375.50 Mbit/s

95th percentile per-packet one-way delay: 147.888 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 260.44 Mbit/s

95th percentile per-packet one-way delay: 148.591 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 171.59 Mbit/s

95th percentile per-packet one-way delay: 145.086 ms

Loss rate: 0.61%

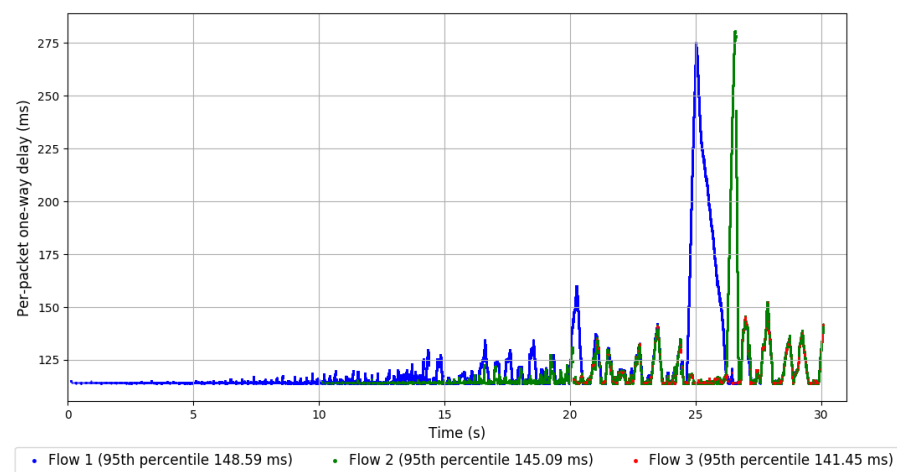
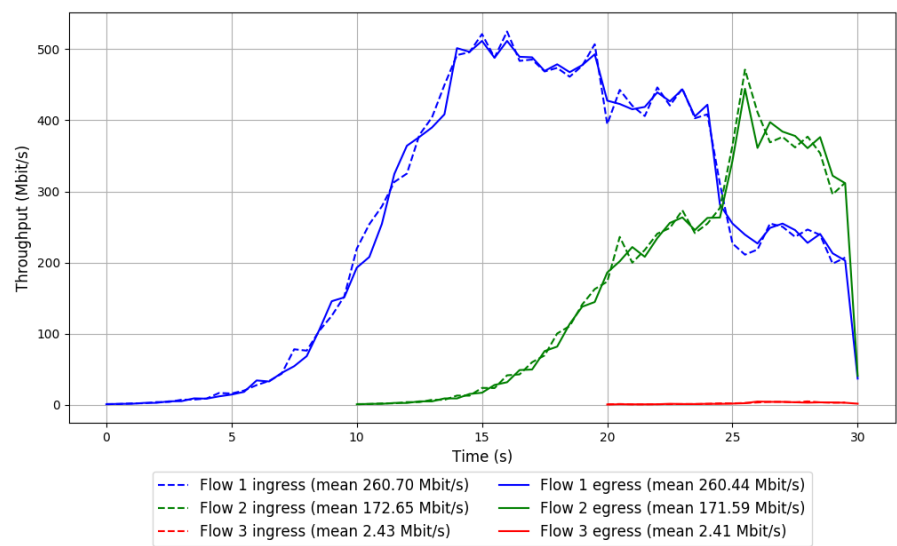
-- Flow 3:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 141.450 ms

Loss rate: 0.55%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-12 06:25:06

End at: 2017-10-12 06:25:36

# Below is generated by plot.py at 2017-10-12 09:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 381.92 Mbit/s

95th percentile per-packet one-way delay: 140.033 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 282.57 Mbit/s

95th percentile per-packet one-way delay: 135.284 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.51 Mbit/s

95th percentile per-packet one-way delay: 149.875 ms

Loss rate: 0.30%

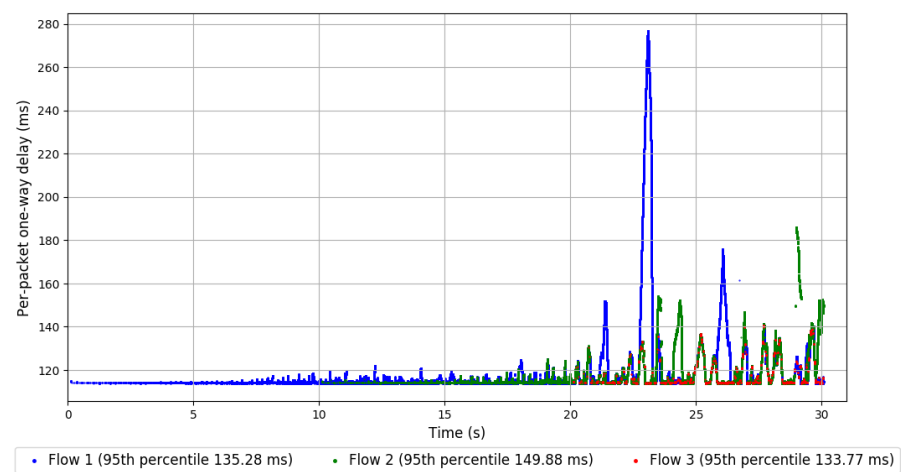
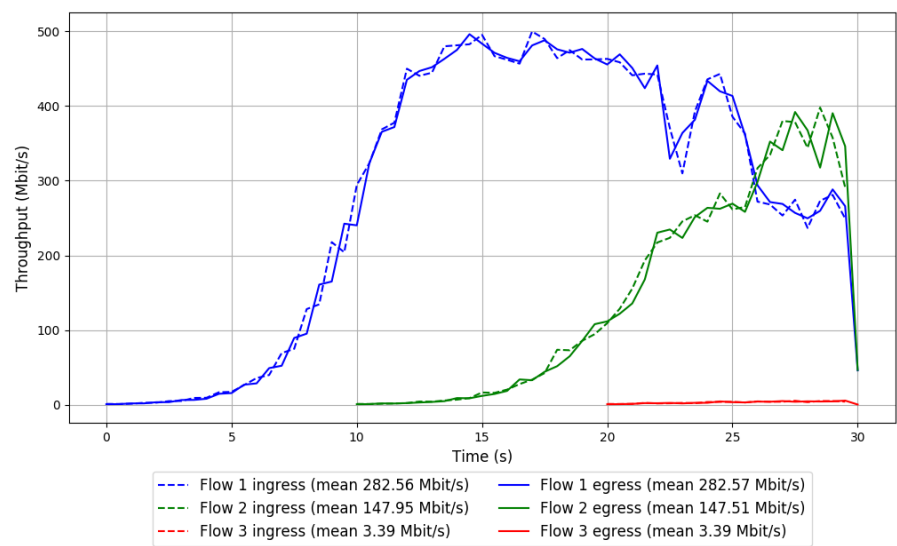
-- Flow 3:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 133.772 ms

Loss rate: 0.04%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-12 06:38:27

End at: 2017-10-12 06:38:57

# Below is generated by plot.py at 2017-10-12 09:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 360.69 Mbit/s

95th percentile per-packet one-way delay: 146.756 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 269.24 Mbit/s

95th percentile per-packet one-way delay: 152.370 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 135.78 Mbit/s

95th percentile per-packet one-way delay: 142.761 ms

Loss rate: 0.05%

-- Flow 3:

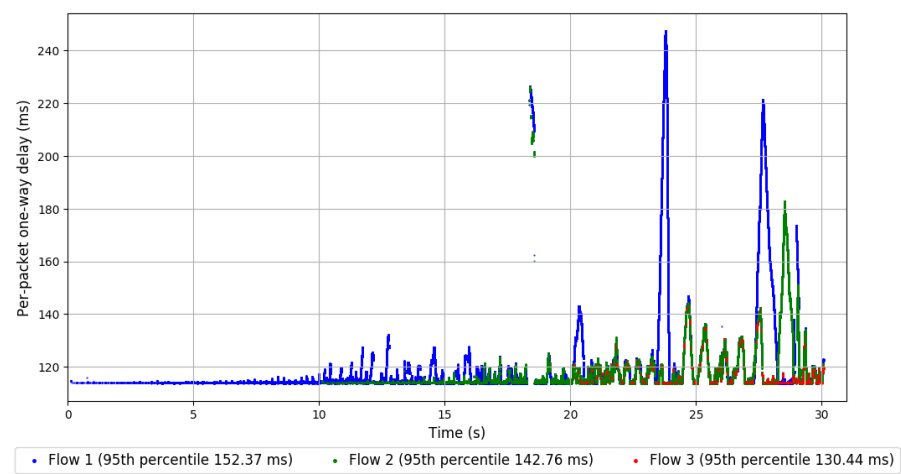
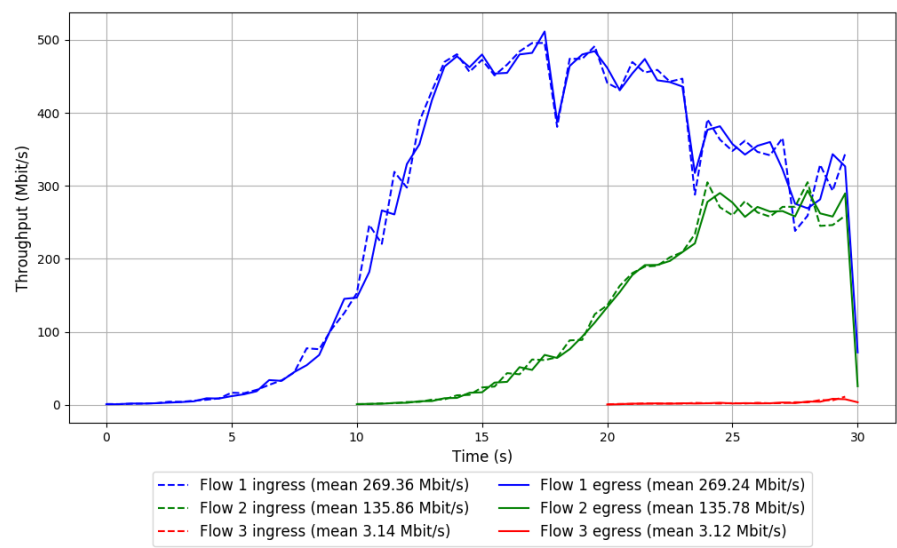
Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 130.442 ms

Loss rate: 0.88%



Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-12 06:52:00

End at: 2017-10-12 06:52:30

# Below is generated by plot.py at 2017-10-12 09:40:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 389.78 Mbit/s

95th percentile per-packet one-way delay: 130.451 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 308.14 Mbit/s

95th percentile per-packet one-way delay: 129.744 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.73 Mbit/s

95th percentile per-packet one-way delay: 132.253 ms

Loss rate: 0.00%

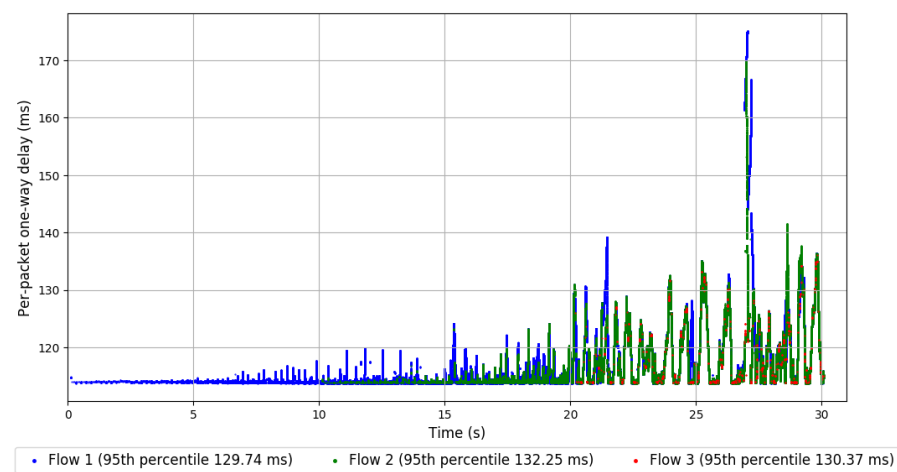
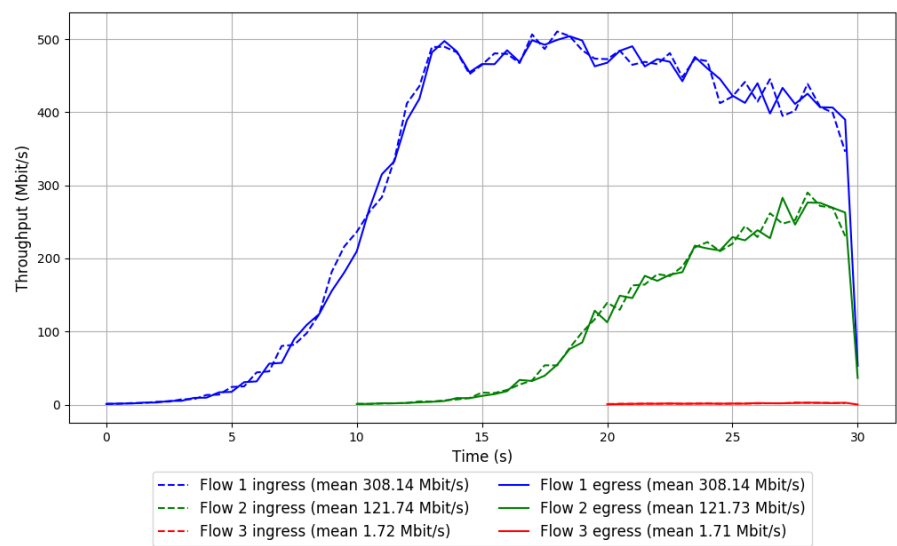
-- Flow 3:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 130.365 ms

Loss rate: 1.12%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-12 07:05:27

End at: 2017-10-12 07:05:57

# Below is generated by plot.py at 2017-10-12 09:41:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 378.78 Mbit/s

95th percentile per-packet one-way delay: 131.084 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 295.27 Mbit/s

95th percentile per-packet one-way delay: 130.494 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 124.65 Mbit/s

95th percentile per-packet one-way delay: 133.794 ms

Loss rate: 0.15%

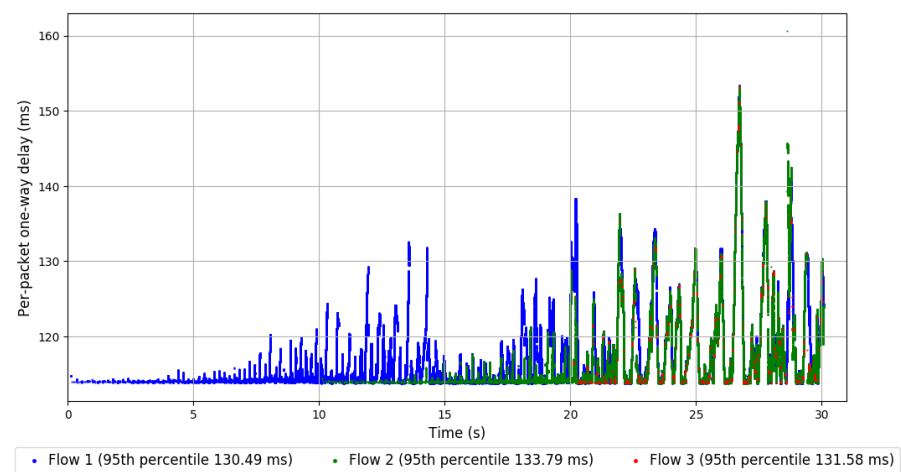
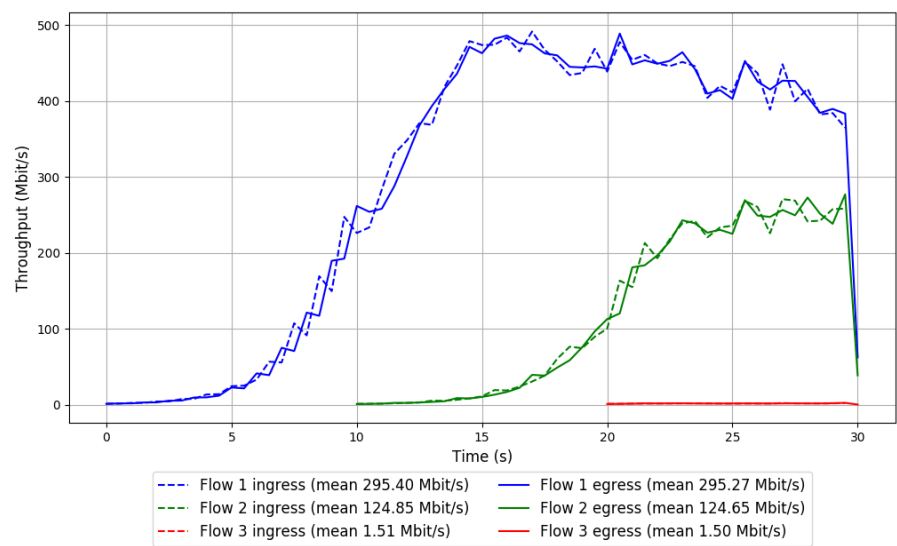
-- Flow 3:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 131.580 ms

Loss rate: 0.48%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-12 07:18:40

End at: 2017-10-12 07:19:10

# Below is generated by plot.py at 2017-10-12 09:41:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 354.14 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 266.84 Mbit/s

95th percentile per-packet one-way delay: 137.426 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.38 Mbit/s

95th percentile per-packet one-way delay: 136.840 ms

Loss rate: 0.00%

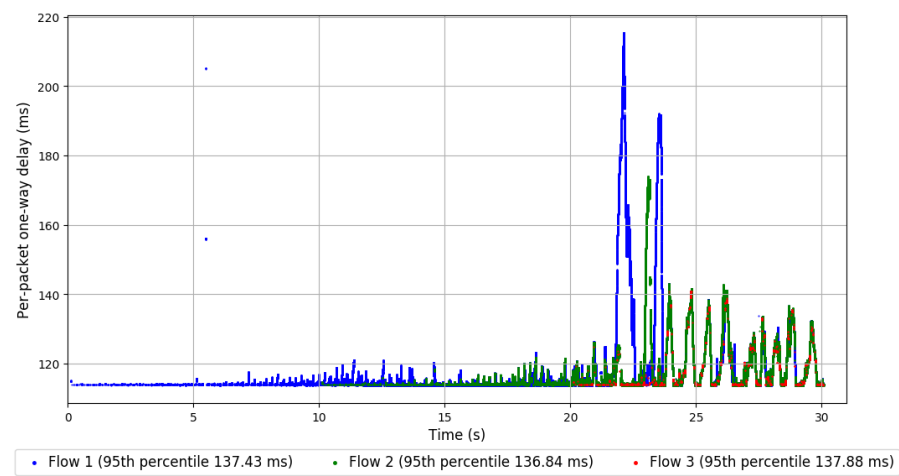
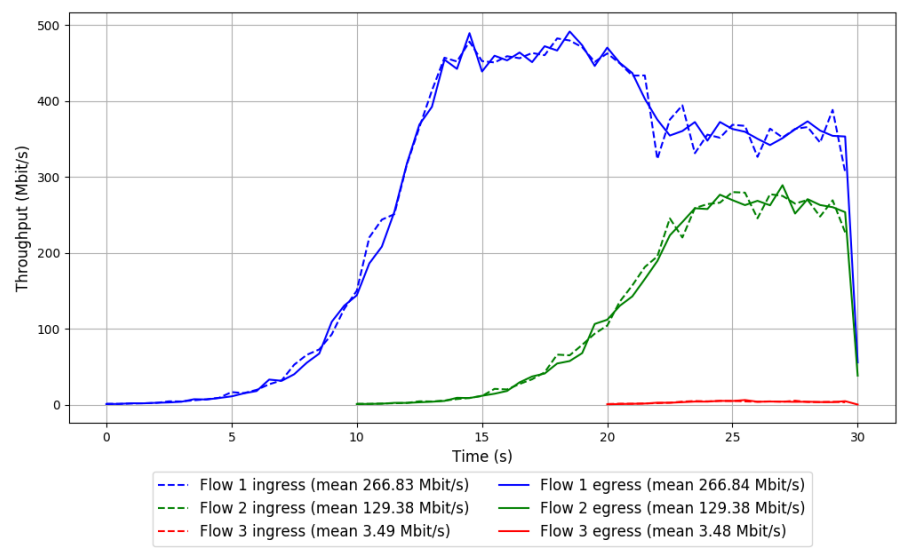
-- Flow 3:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 137.883 ms

Loss rate: 0.38%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-12 07:32:12

End at: 2017-10-12 07:32:42

# Below is generated by plot.py at 2017-10-12 09:44:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 356.52 Mbit/s

95th percentile per-packet one-way delay: 152.405 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 248.19 Mbit/s

95th percentile per-packet one-way delay: 158.523 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 161.09 Mbit/s

95th percentile per-packet one-way delay: 140.383 ms

Loss rate: 0.07%

-- Flow 3:

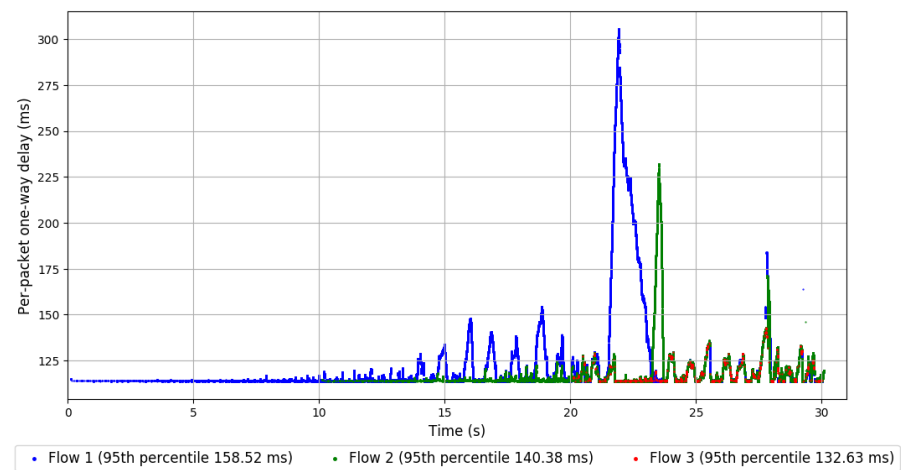
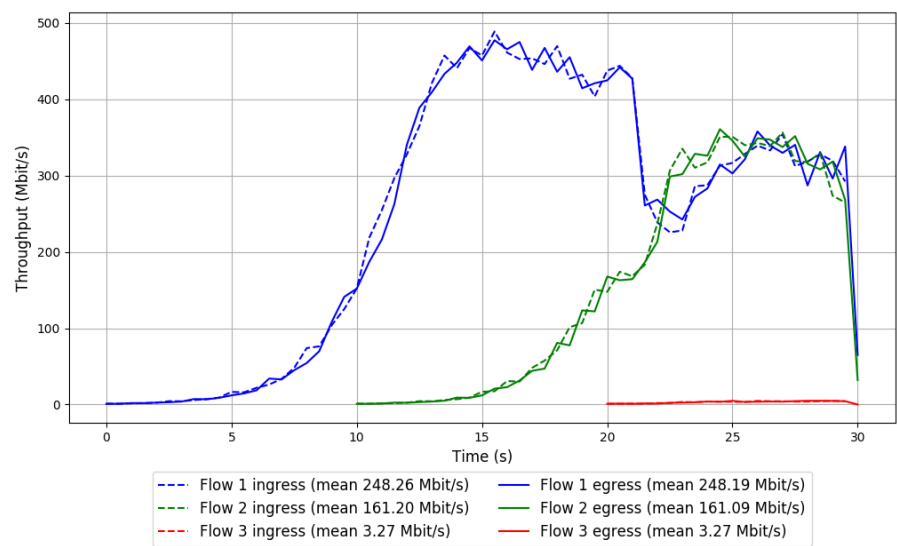
Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 132.630 ms

Loss rate: 0.07%



Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-12 07:45:42

End at: 2017-10-12 07:46:12

# Below is generated by plot.py at 2017-10-12 09:44:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 378.95 Mbit/s

95th percentile per-packet one-way delay: 134.911 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 289.82 Mbit/s

95th percentile per-packet one-way delay: 134.333 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 132.96 Mbit/s

95th percentile per-packet one-way delay: 136.639 ms

Loss rate: 0.04%

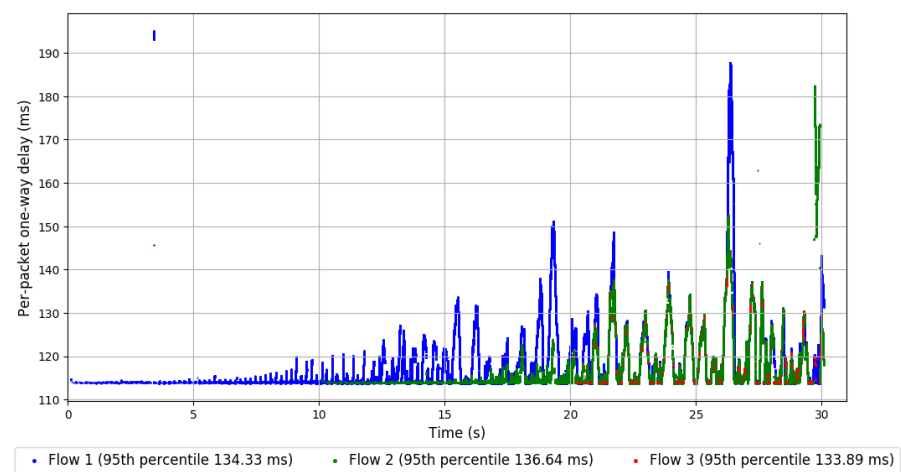
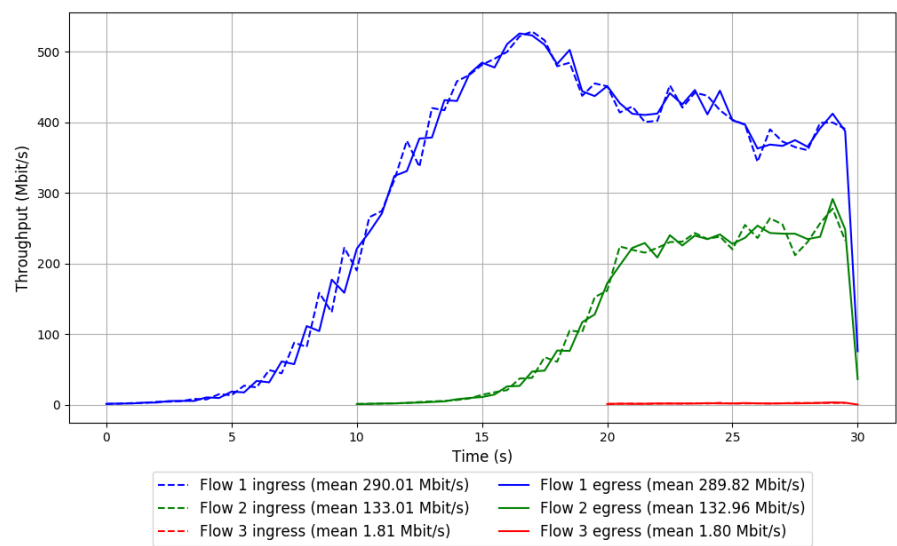
-- Flow 3:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 133.893 ms

Loss rate: 0.73%

Run 10: Report of CalibratedKoho — Data Link

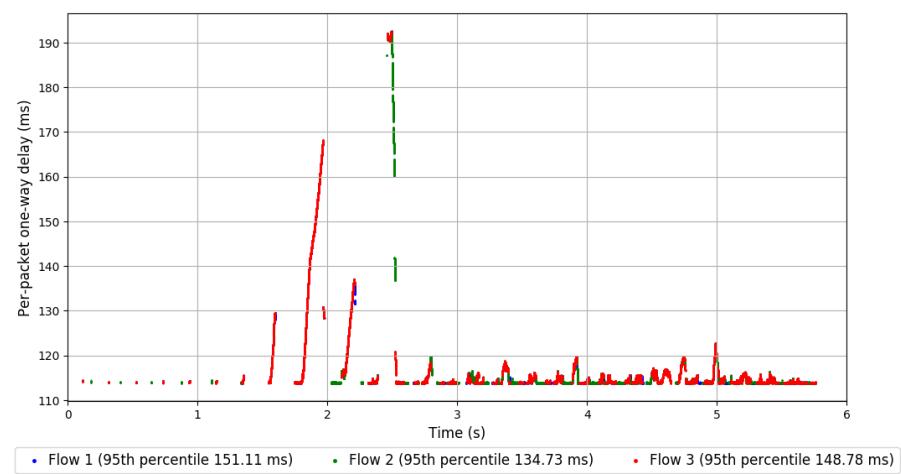
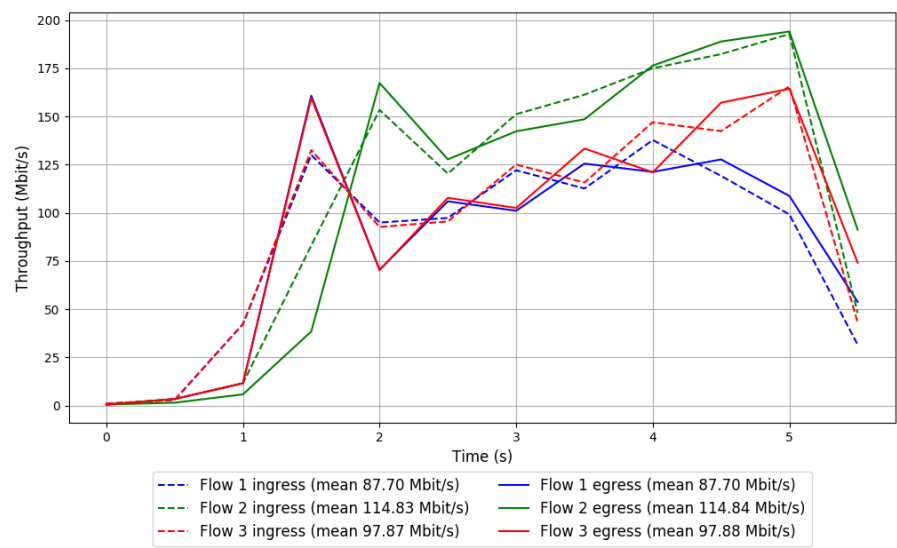


Run 1: Statistics of Indigo

Start at: 2017-10-12 05:47:18

End at: 2017-10-12 05:47:48

Run 1: Report of Indigo — Data Link

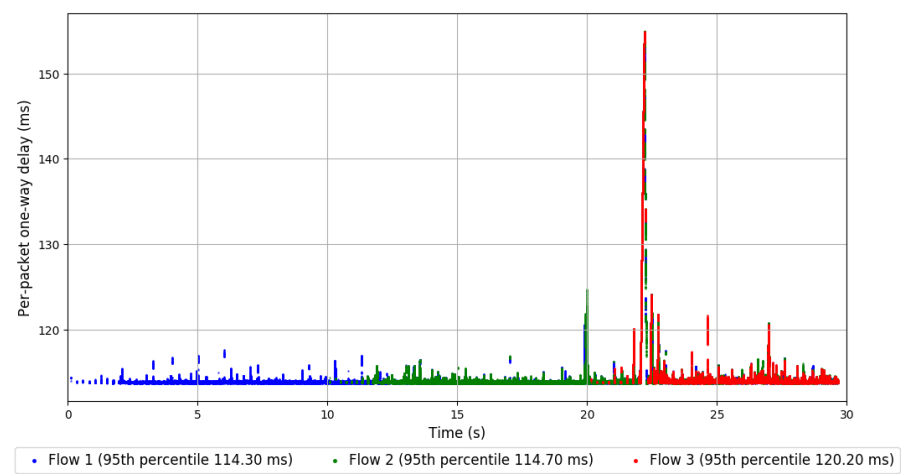
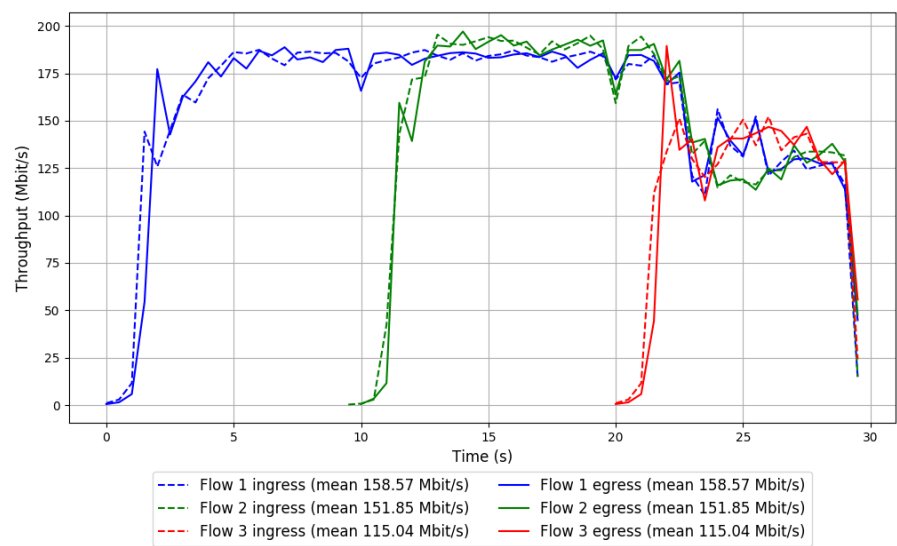


```
Run 2: Statistics of Indigo

Start at: 2017-10-12 06:00:32
End at: 2017-10-12 06:01:02

# Below is generated by plot.py at 2017-10-12 09:44:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.28 Mbit/s
95th percentile per-packet one-way delay: 114.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.57 Mbit/s
95th percentile per-packet one-way delay: 114.297 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.85 Mbit/s
95th percentile per-packet one-way delay: 114.700 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.04 Mbit/s
95th percentile per-packet one-way delay: 120.201 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



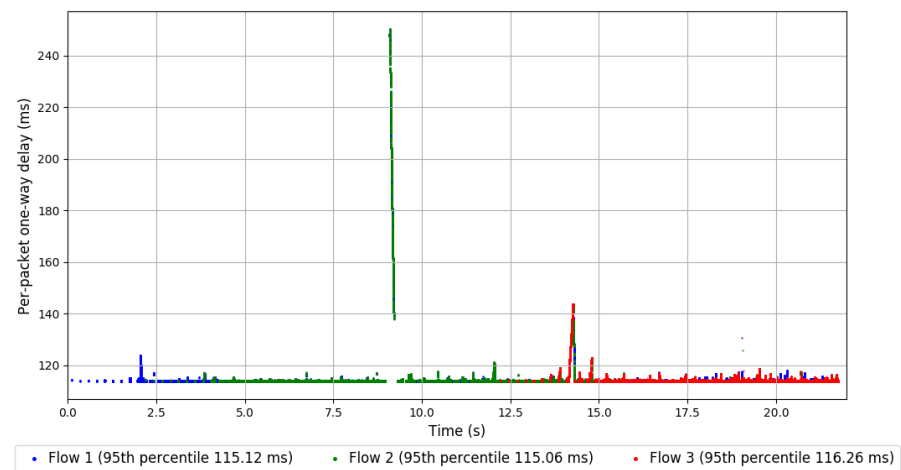
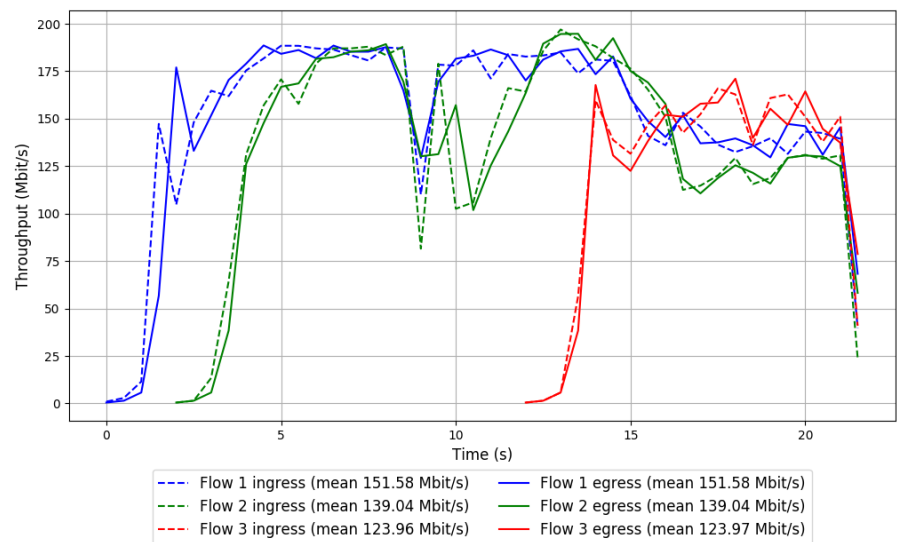
Run 3: Statistics of Indigo

Start at: 2017-10-12 06:13:58

End at: 2017-10-12 06:14:28



Run 3: Report of Indigo — Data Link

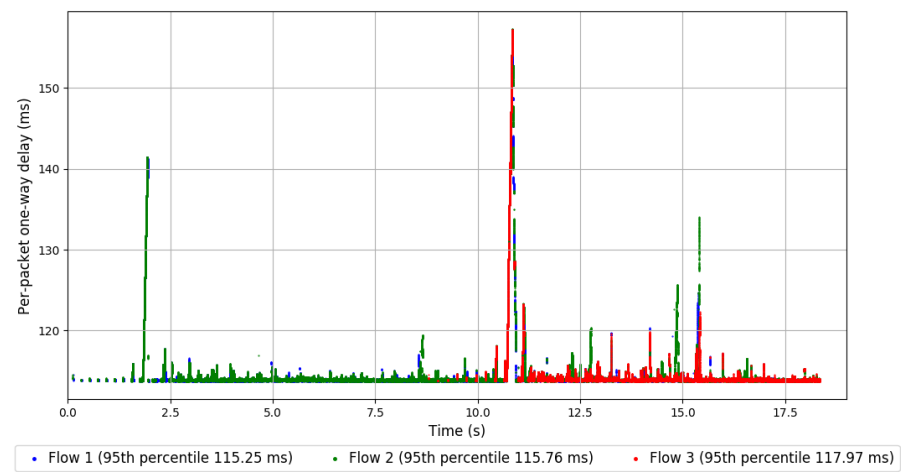
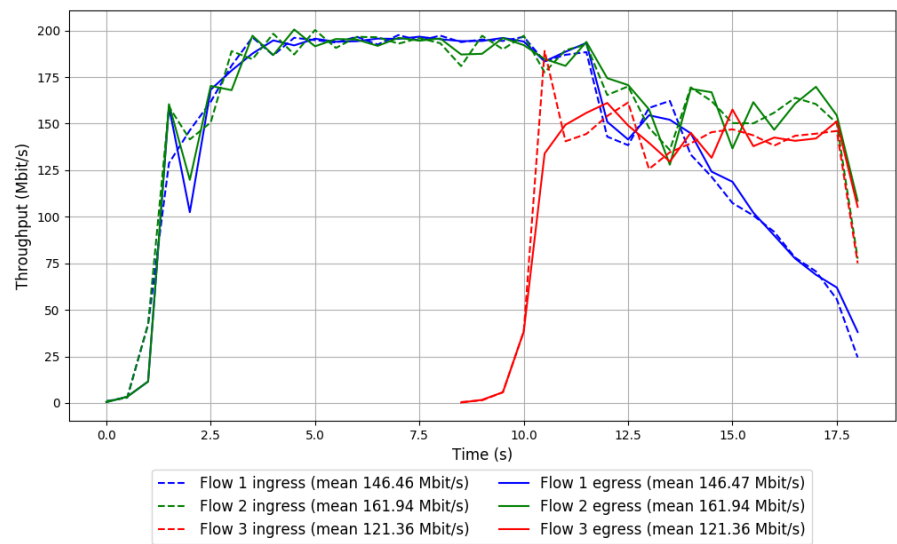


Run 4: Statistics of Indigo

Start at: 2017-10-12 06:27:31

End at: 2017-10-12 06:28:01

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-12 06:40:50

End at: 2017-10-12 06:41:20

# Below is generated by plot.py at 2017-10-12 09:44:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 271.78 Mbit/s

95th percentile per-packet one-way delay: 114.661 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 164.36 Mbit/s

95th percentile per-packet one-way delay: 114.339 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 114.780 ms

Loss rate: 0.00%

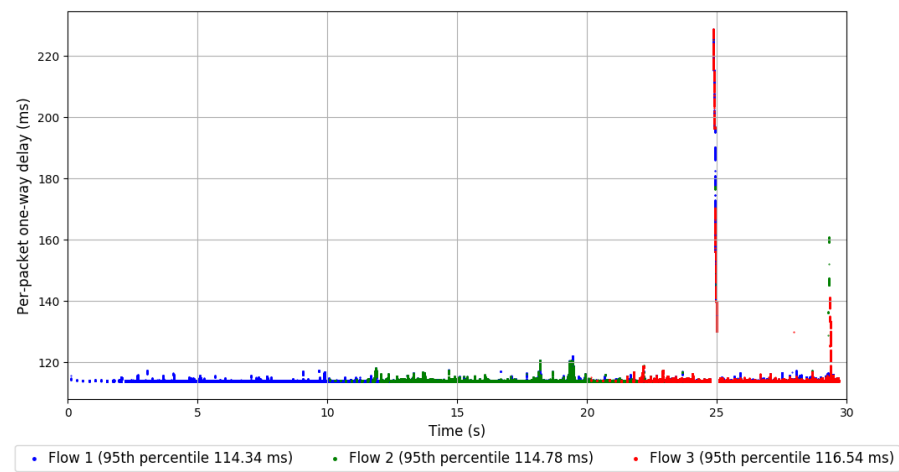
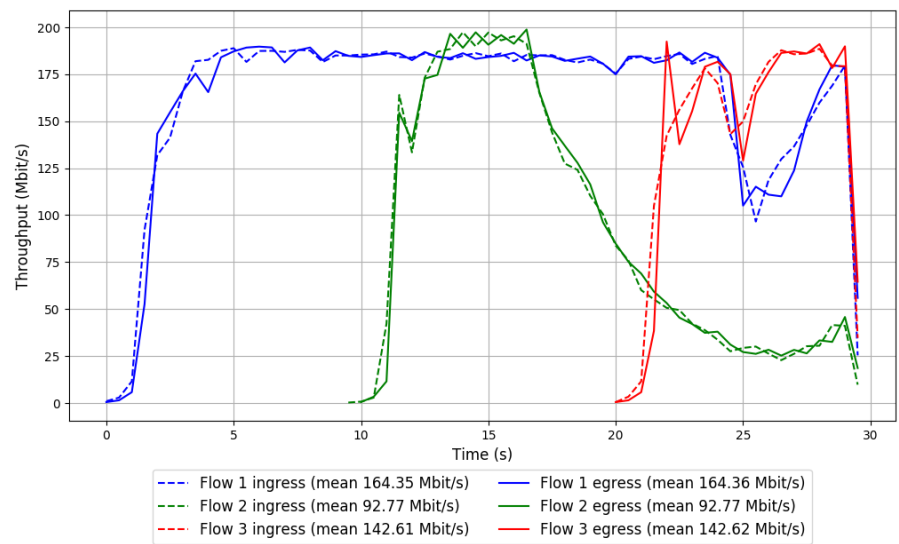
-- Flow 3:

Average throughput: 142.62 Mbit/s

95th percentile per-packet one-way delay: 116.540 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

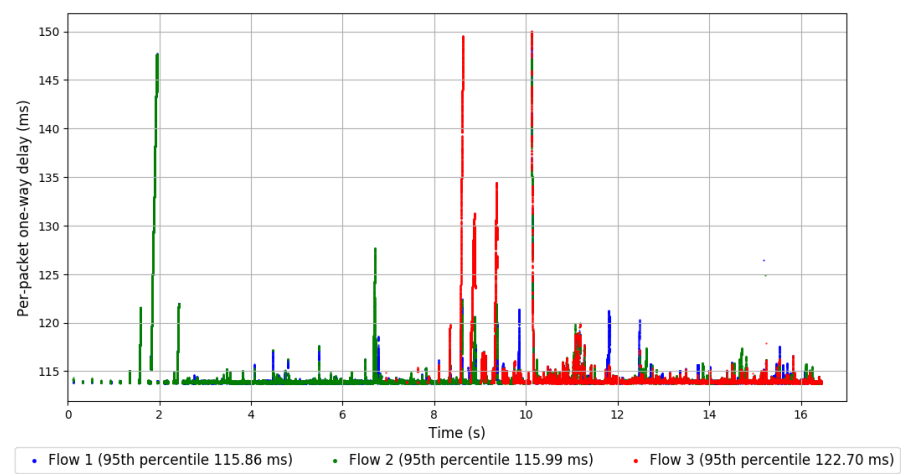
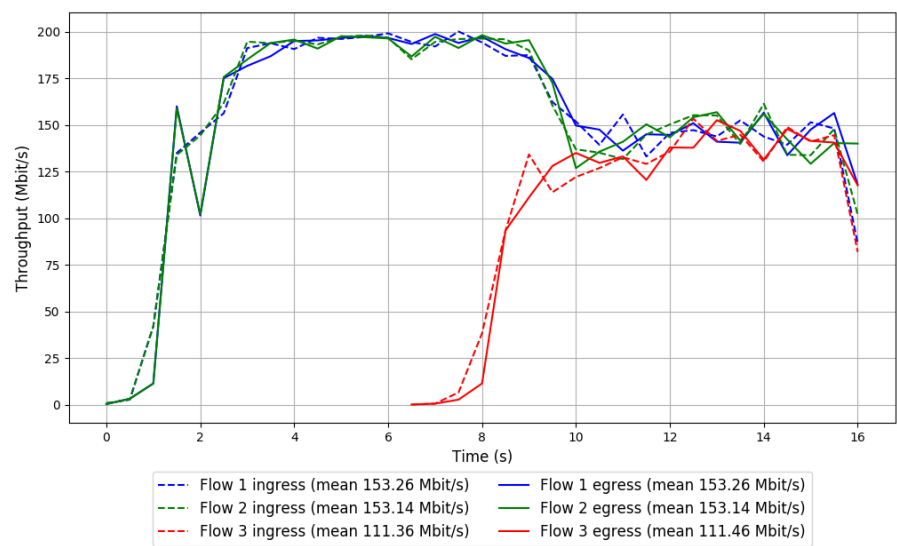


Run 6: Statistics of Indigo

Start at: 2017-10-12 06:54:23

End at: 2017-10-12 06:54:53

Run 6: Report of Indigo — Data Link



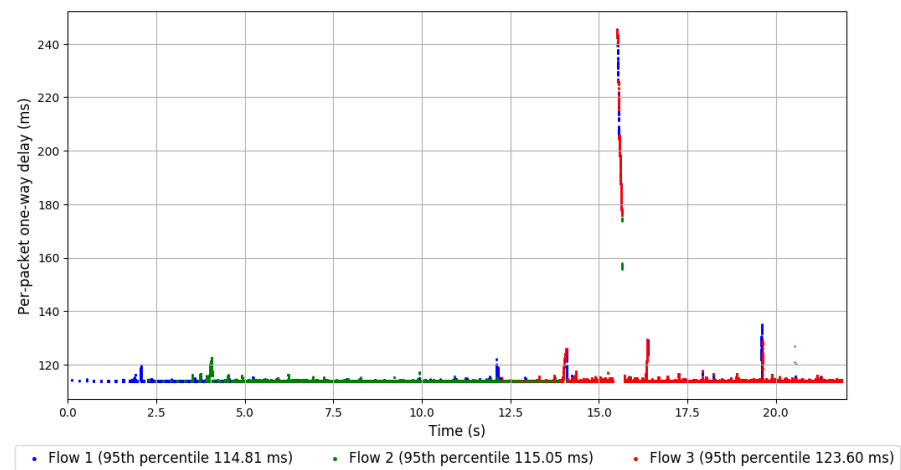
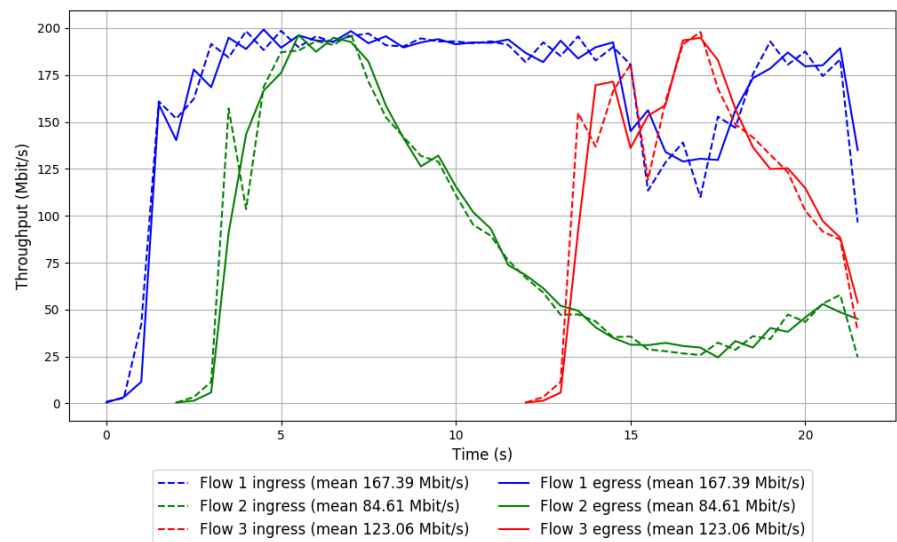
Run 7: Statistics of Indigo

Start at: 2017-10-12 07:07:51

End at: 2017-10-12 07:08:21



Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-12 07:21:02

End at: 2017-10-12 07:21:32

# Below is generated by plot.py at 2017-10-12 09:45:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 256.94 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.72 Mbit/s

95th percentile per-packet one-way delay: 114.005 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.59 Mbit/s

95th percentile per-packet one-way delay: 114.172 ms

Loss rate: 0.00%

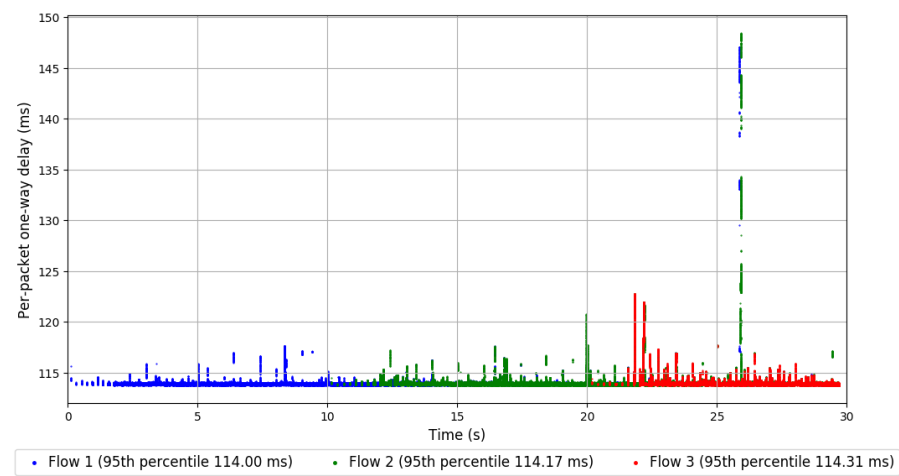
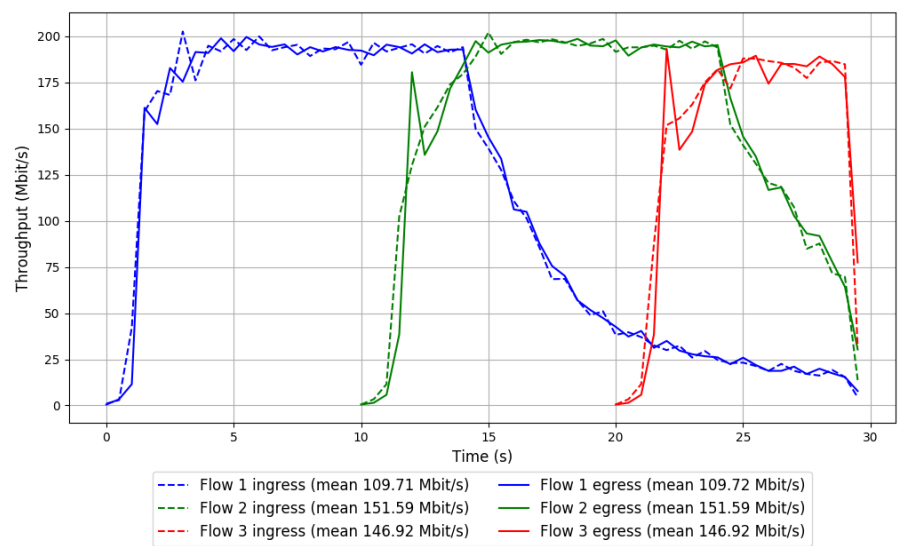
-- Flow 3:

Average throughput: 146.92 Mbit/s

95th percentile per-packet one-way delay: 114.309 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-12 07:34:35

End at: 2017-10-12 07:35:05

# Below is generated by plot.py at 2017-10-12 09:45:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 282.45 Mbit/s

95th percentile per-packet one-way delay: 114.387 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 141.70 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.74 Mbit/s

95th percentile per-packet one-way delay: 114.502 ms

Loss rate: 0.00%

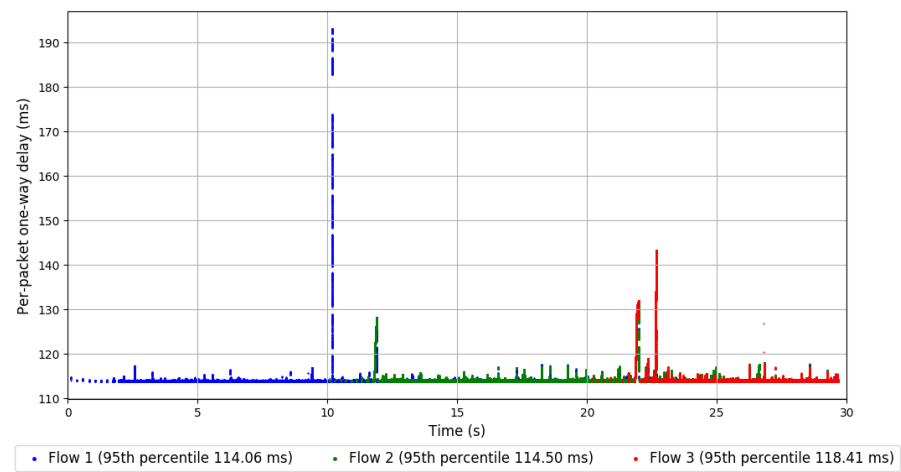
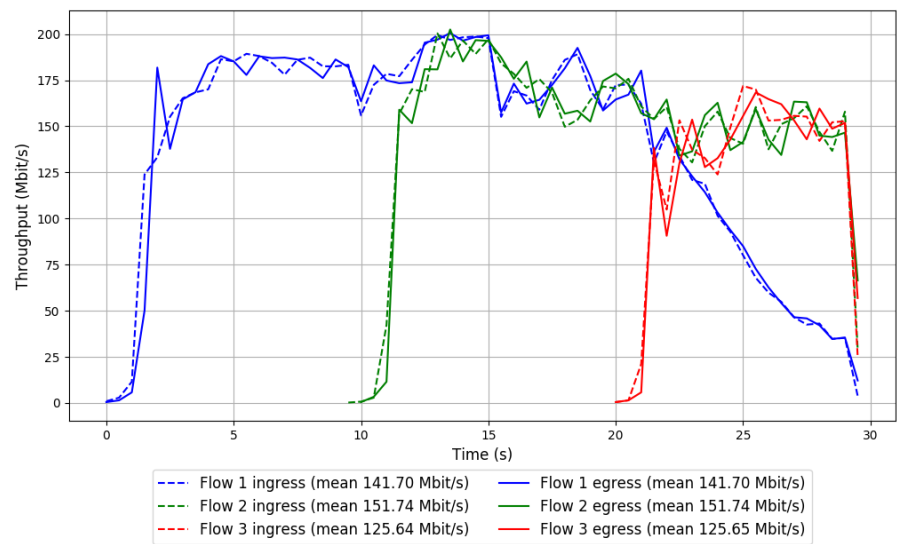
-- Flow 3:

Average throughput: 125.65 Mbit/s

95th percentile per-packet one-way delay: 118.405 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-12 07:48:10

End at: 2017-10-12 07:48:40

Run 10: Report of Indigo — Data Link

