

Pantheon Report

Generated at 2017-12-21 12:23:23 (UTC).

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

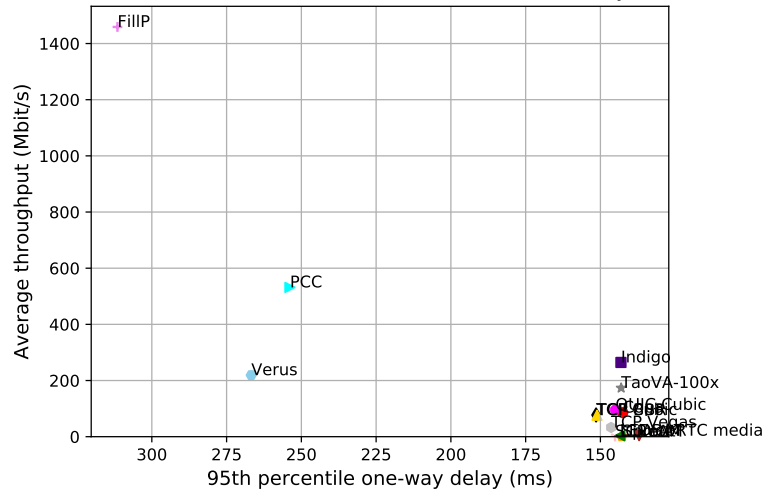
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

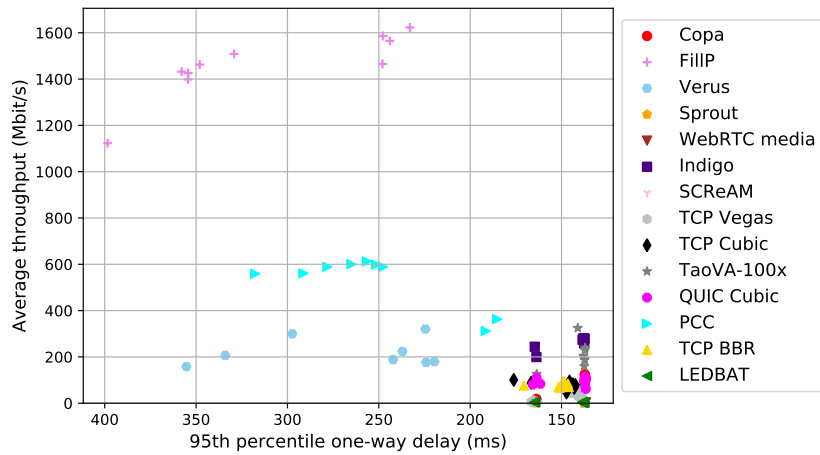
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	37.90	38.11	40.80	150.38	151.32	150.79	1.04	1.03	0.70
TCP Cubic	8	35.80	41.70	40.00	148.94	150.43	153.15	0.74	0.07	0.01
LEDBAT	10	1.91	1.44	1.09	143.74	143.45	147.13	1.02	0.34	0.72
PCC	9	382.85	194.64	59.21	255.63	230.65	228.20	2.89	2.10	3.02
QUIC Cubic	10	48.24	53.85	36.31	139.68	139.75	141.72	0.01	0.02	0.10
SCReAM	10	0.21	0.22	0.22	144.84	139.62	141.98	0.00	0.00	0.03
WebRTC media	10	1.94	1.19	0.40	136.97	136.85	142.50	0.00	0.00	0.01
Sprout	10	0.38	0.39	0.43	142.85	142.83	142.57	0.08	0.00	0.00
TaoVA-100x	10	85.35	111.17	82.80	145.35	146.00	142.58	0.53	0.02	0.00
TCP Vegas	10	12.82	17.63	25.31	146.33	144.85	145.76	1.07	0.51	0.05
Verus	8	119.34	133.70	35.83	212.66	271.24	246.49	1.09	5.75	7.04
Copa	10	57.73	30.32	30.61	142.43	149.97	142.65	0.00	4.62	0.13
FillP	10	743.60	758.45	637.21	303.78	289.48	292.72	6.52	7.79	13.88
Indigo	10	142.67	131.56	108.60	142.88	143.32	144.56	0.10	0.07	0.06

Run 1: Statistics of TCP BBR

Start at: 2017-12-21 07:36:33

End at: 2017-12-21 07:37:03

Below is generated by plot.py at 2017-12-21 11:16:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.37 Mbit/s

95th percentile per-packet one-way delay: 149.227 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 149.482 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 38.63 Mbit/s

95th percentile per-packet one-way delay: 148.553 ms

Loss rate: 0.48%

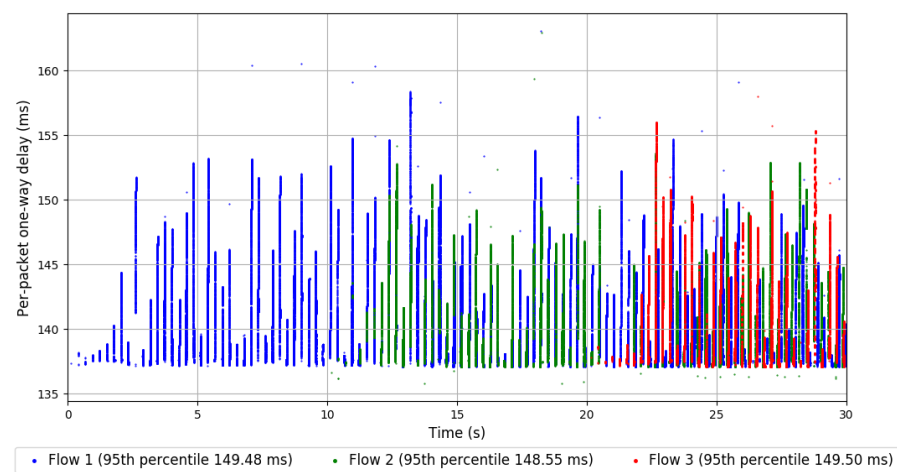
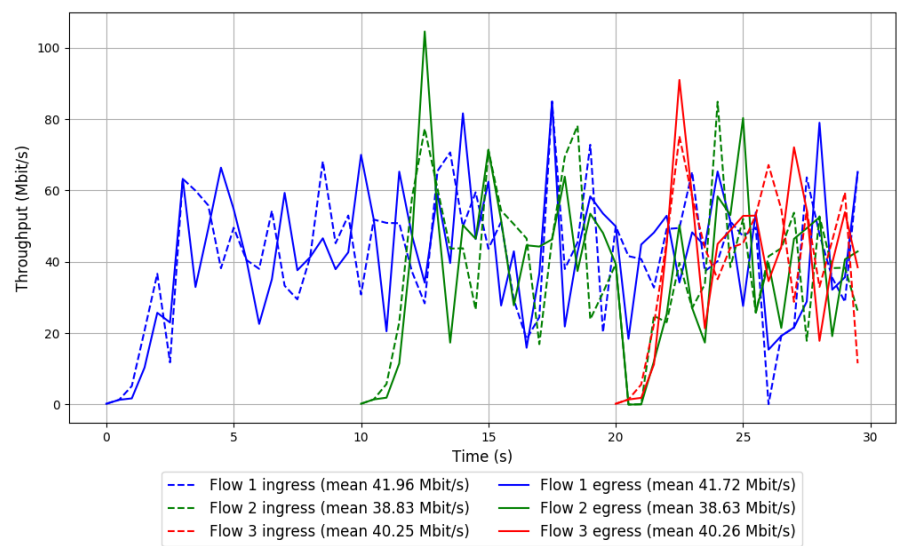
-- Flow 3:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 149.500 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-21 07:52:14

End at: 2017-12-21 07:52:44

Below is generated by plot.py at 2017-12-21 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.99 Mbit/s

95th percentile per-packet one-way delay: 148.985 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 147.397 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 149.999 ms

Loss rate: 0.00%

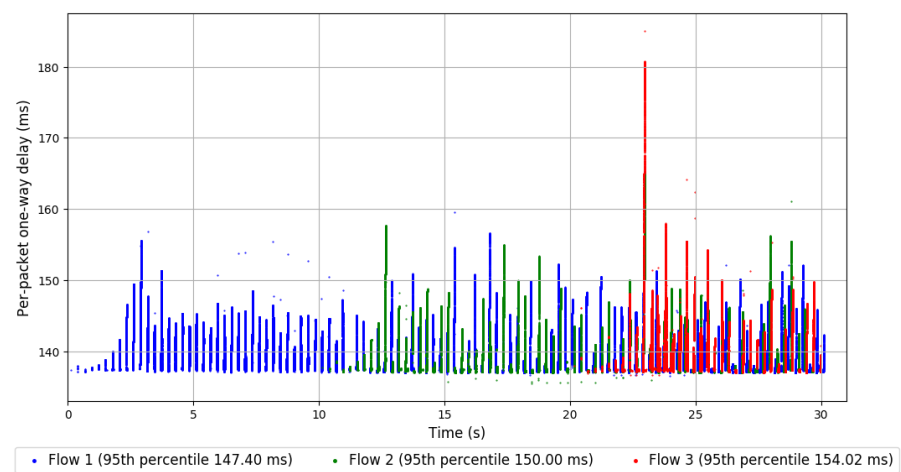
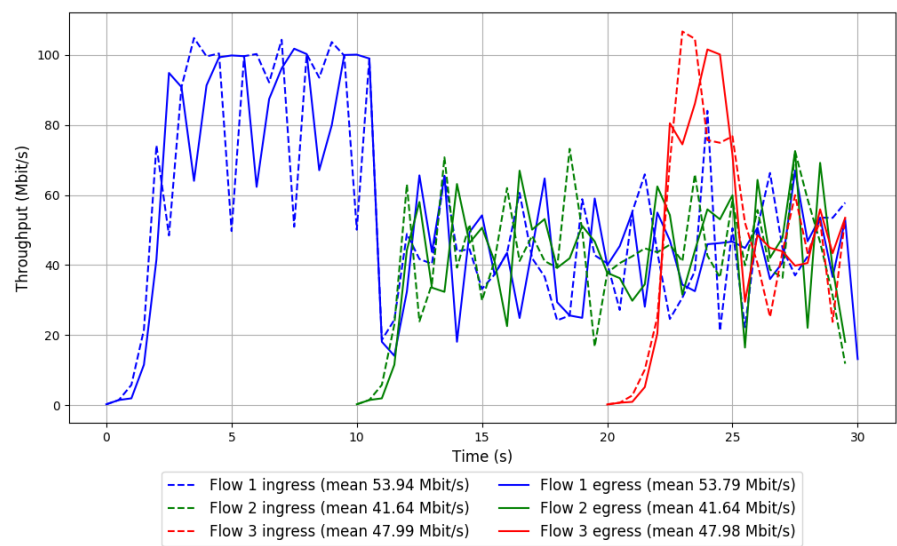
-- Flow 3:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 154.024 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-21 08:08:11

End at: 2017-12-21 08:08:41

Below is generated by plot.py at 2017-12-21 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 151.027 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 148.749 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 151.875 ms

Loss rate: 1.23%

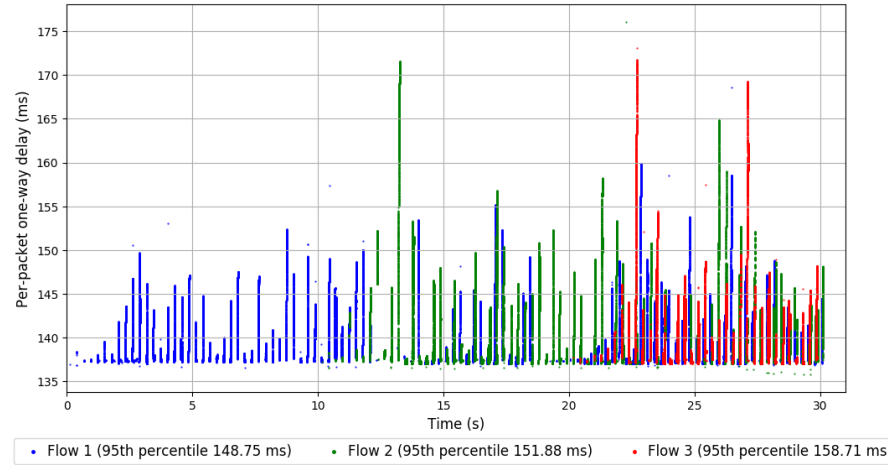
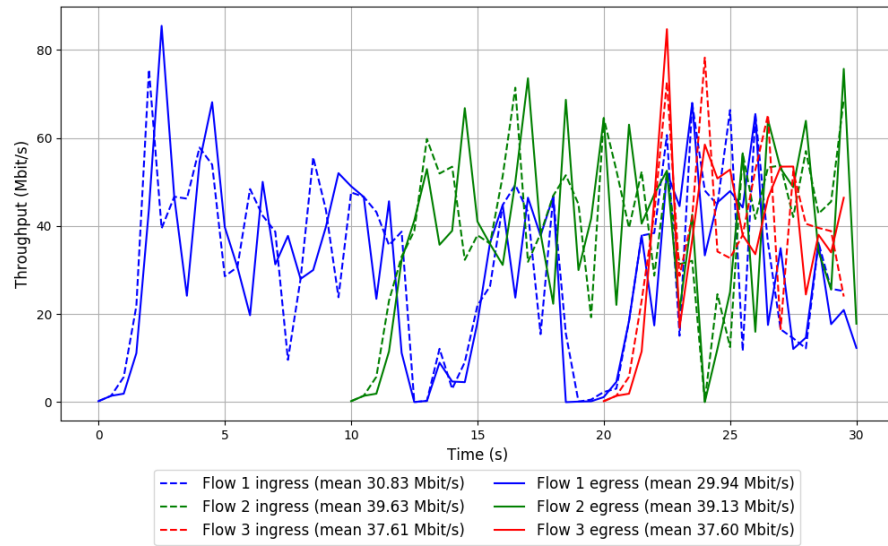
-- Flow 3:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 158.706 ms

Loss rate: 0.03%

Run 3: Report of TCP BBR — Data Link



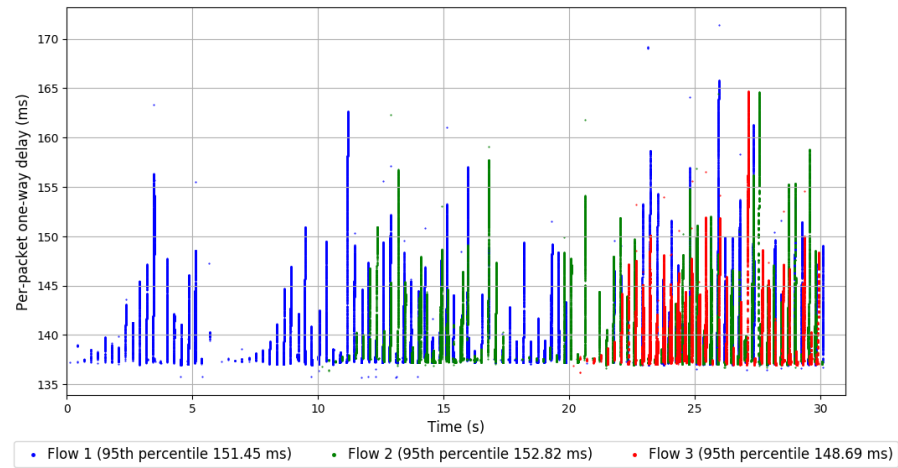
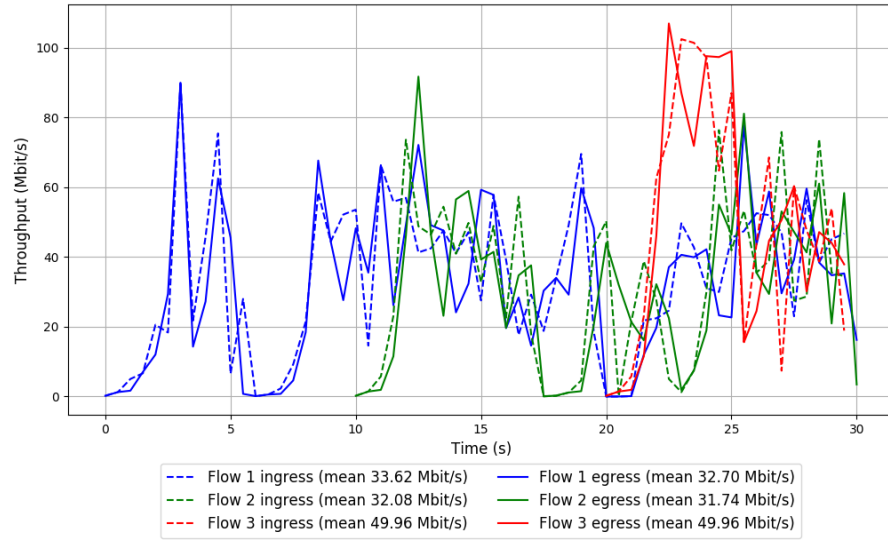
Run 4: Statistics of TCP BBR

Start at: 2017-12-21 08:24:34

End at: 2017-12-21 08:25:04

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.08 Mbit/s
95th percentile per-packet one-way delay: 151.612 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 151.451 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 152.817 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 49.96 Mbit/s
95th percentile per-packet one-way delay: 148.694 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-21 08:39:50

End at: 2017-12-21 08:40:20

Below is generated by plot.py at 2017-12-21 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 170.617 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 40.16 Mbit/s

95th percentile per-packet one-way delay: 172.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 168.242 ms

Loss rate: 2.06%

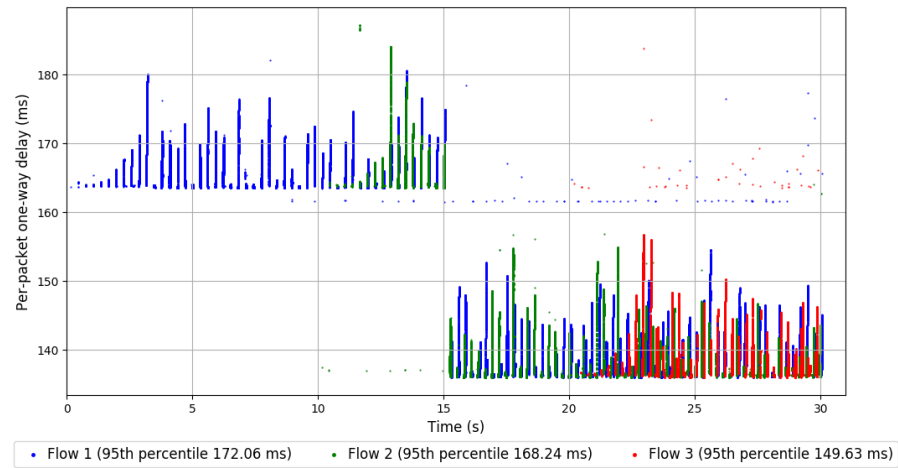
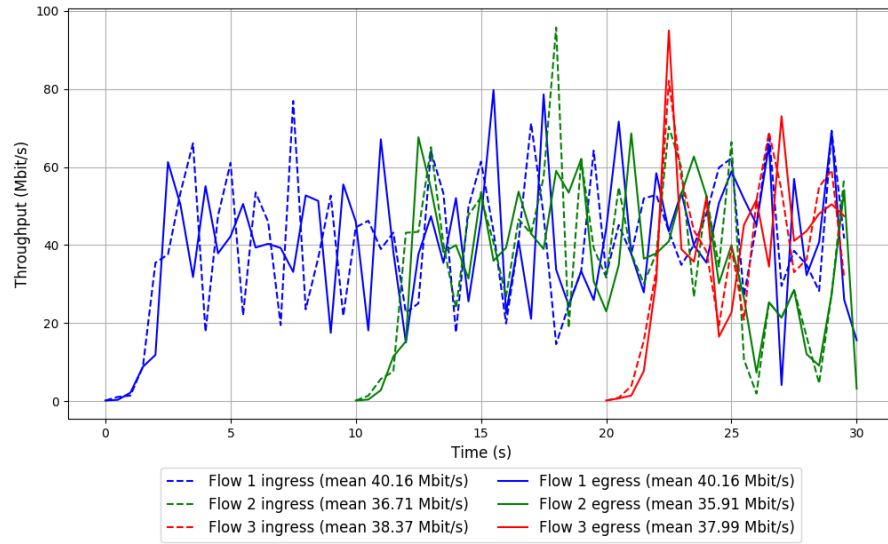
-- Flow 3:

Average throughput: 37.99 Mbit/s

95th percentile per-packet one-way delay: 149.627 ms

Loss rate: 1.03%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-21 08:55:24

End at: 2017-12-21 08:55:54

Below is generated by plot.py at 2017-12-21 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.42 Mbit/s

95th percentile per-packet one-way delay: 146.519 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 40.11 Mbit/s

95th percentile per-packet one-way delay: 145.998 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 43.93 Mbit/s

95th percentile per-packet one-way delay: 147.656 ms

Loss rate: 0.00%

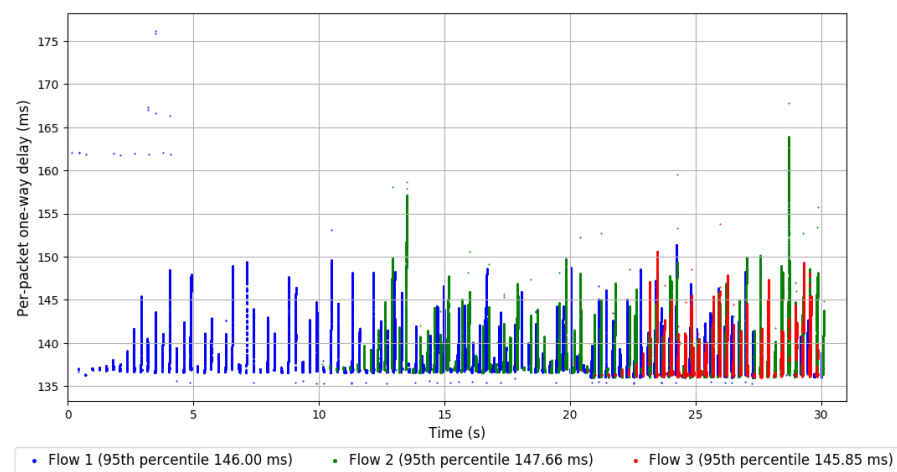
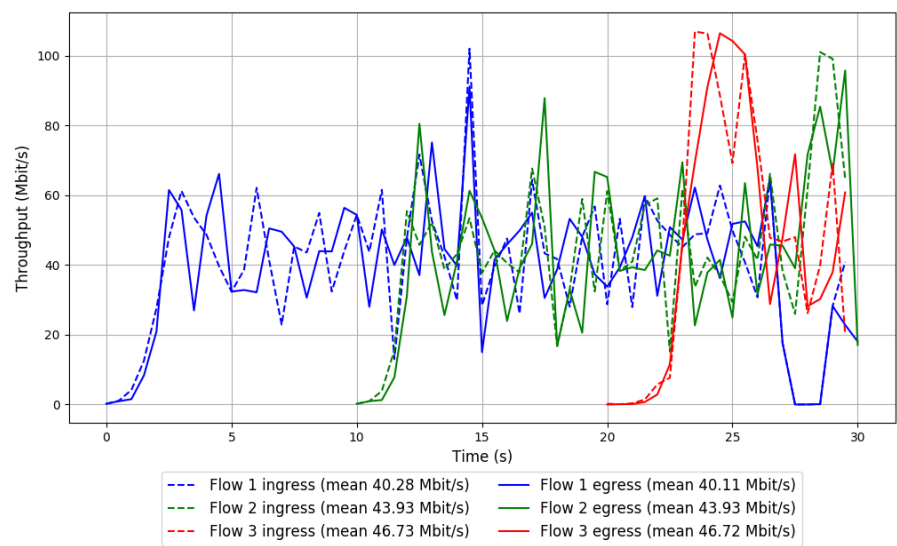
-- Flow 3:

Average throughput: 46.72 Mbit/s

95th percentile per-packet one-way delay: 145.853 ms

Loss rate: 0.03%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-21 09:11:13

End at: 2017-12-21 09:11:43

Below is generated by plot.py at 2017-12-21 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.24 Mbit/s

95th percentile per-packet one-way delay: 149.502 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 32.28 Mbit/s

95th percentile per-packet one-way delay: 149.090 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 148.581 ms

Loss rate: 0.88%

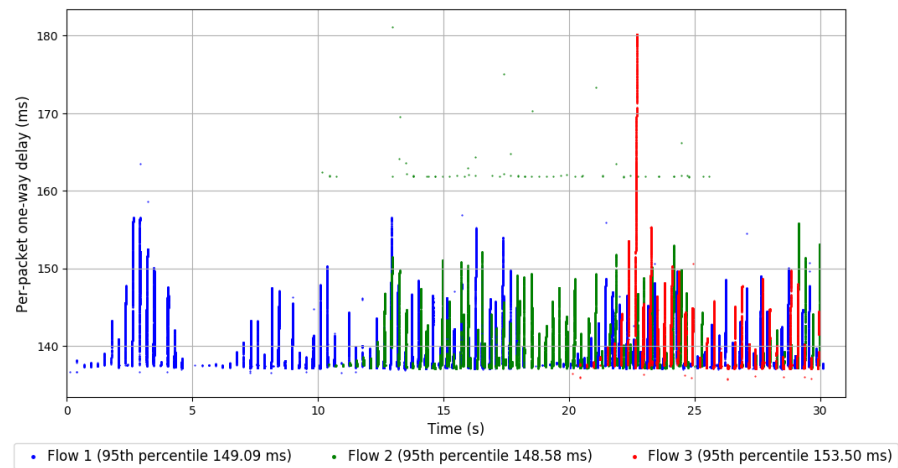
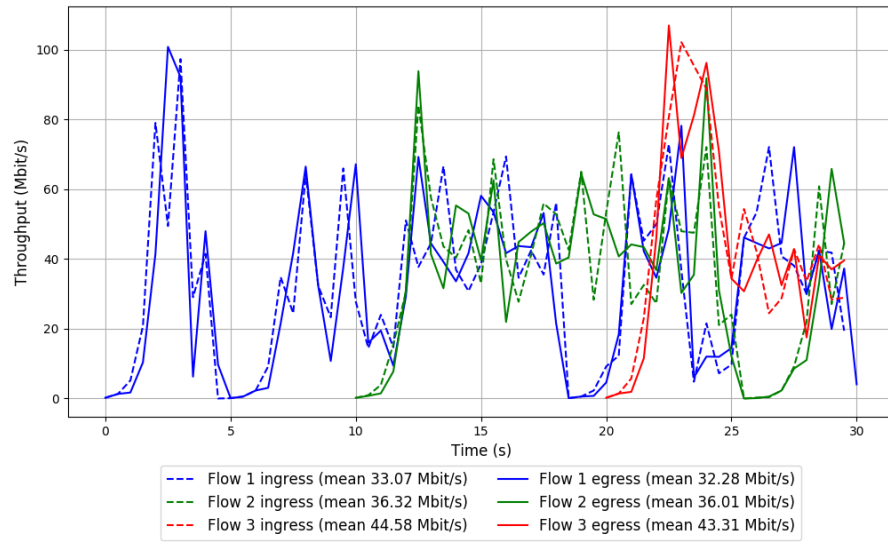
-- Flow 3:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 153.498 ms

Loss rate: 2.78%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-21 09:27:34

End at: 2017-12-21 09:28:04

Below is generated by plot.py at 2017-12-21 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.24 Mbit/s

95th percentile per-packet one-way delay: 150.869 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 149.301 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 151.761 ms

Loss rate: 2.53%

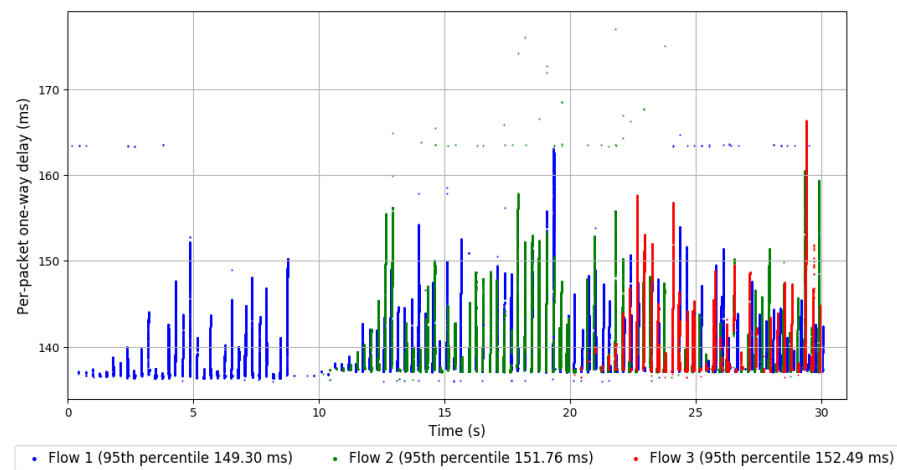
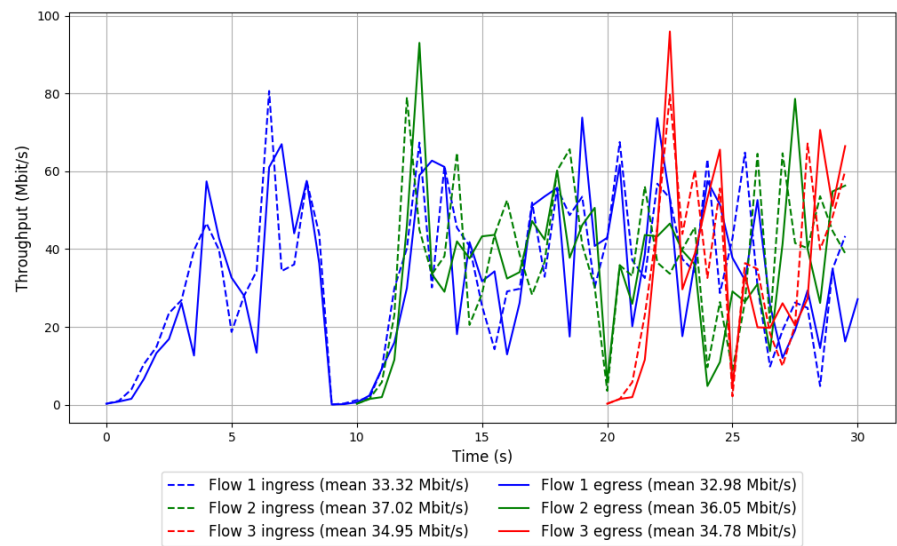
-- Flow 3:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 152.489 ms

Loss rate: 0.40%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-21 09:43:46

End at: 2017-12-21 09:44:16

Below is generated by plot.py at 2017-12-21 11:17:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 146.066 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 143.888 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 145.859 ms

Loss rate: 2.12%

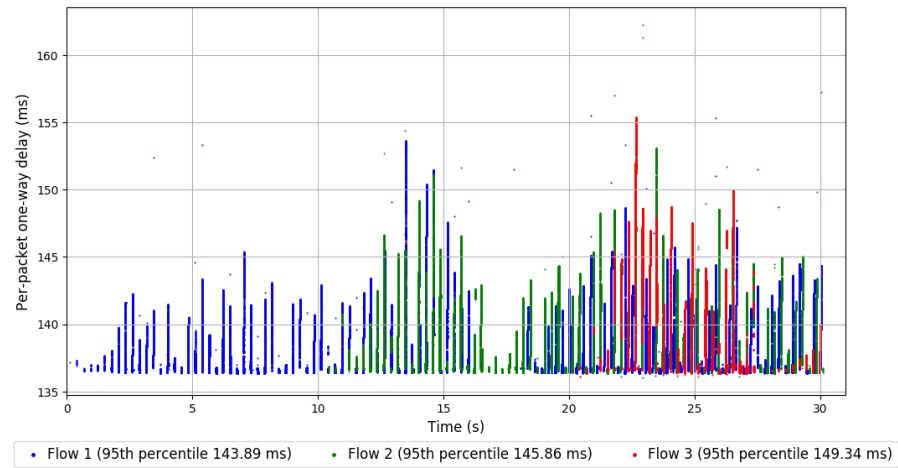
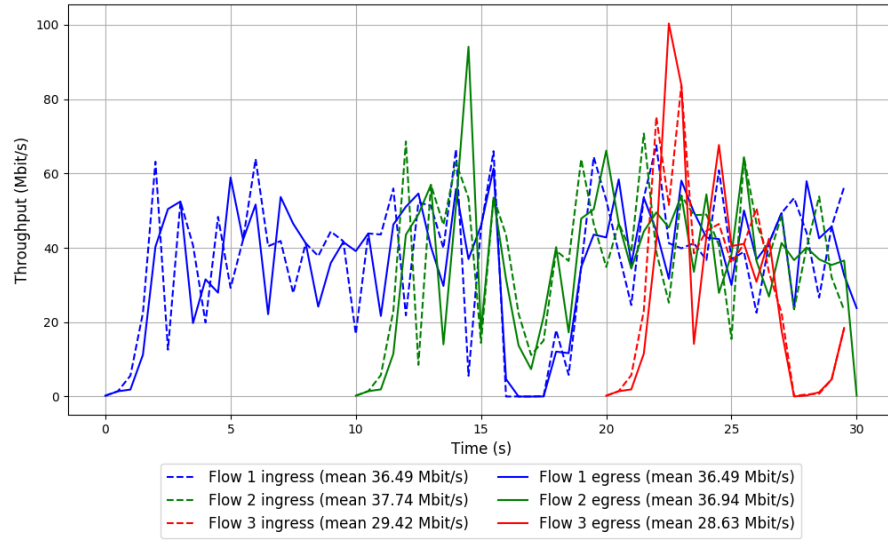
-- Flow 3:

Average throughput: 28.63 Mbit/s

95th percentile per-packet one-way delay: 149.335 ms

Loss rate: 2.66%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-21 10:00:01

End at: 2017-12-21 10:00:31

Below is generated by plot.py at 2017-12-21 11:18:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 146.876 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 146.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 147.845 ms

Loss rate: 0.00%

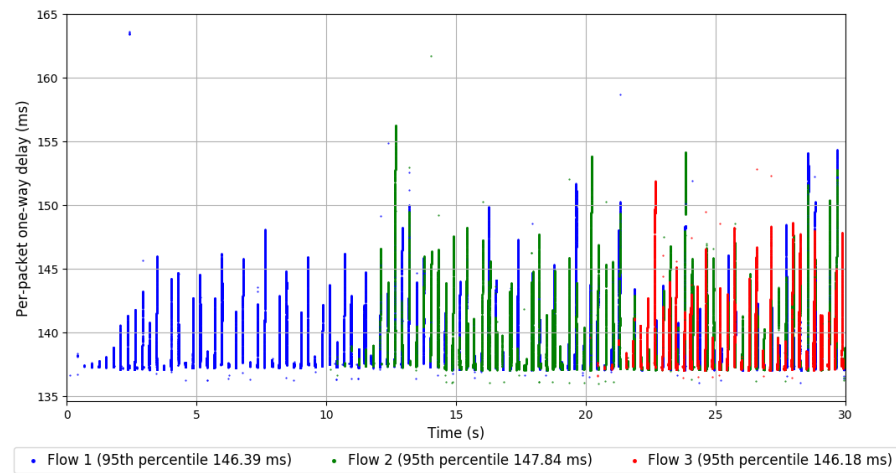
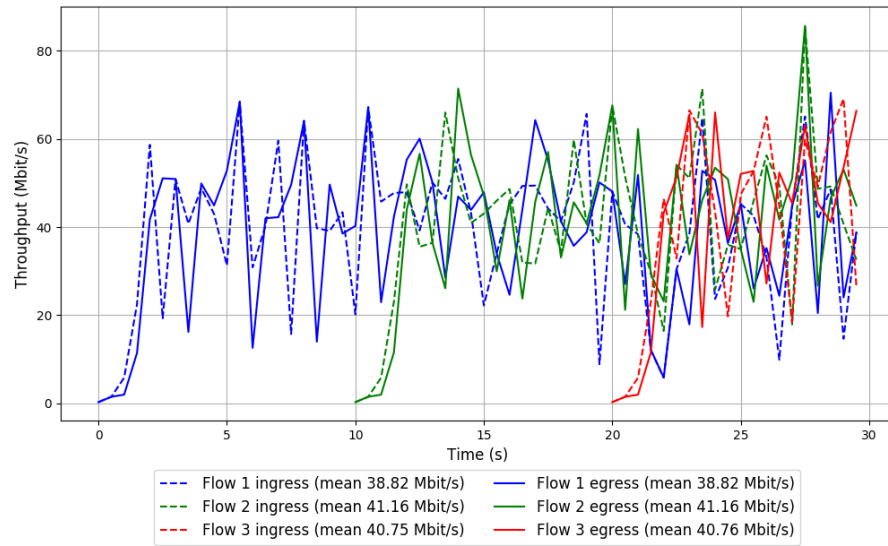
-- Flow 3:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 146.180 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-21 07:29:13

End at: 2017-12-21 07:29:43

Below is generated by plot.py at 2017-12-21 11:18:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.51 Mbit/s

95th percentile per-packet one-way delay: 143.833 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 145.043 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 40.33 Mbit/s

95th percentile per-packet one-way delay: 140.358 ms

Loss rate: 0.01%

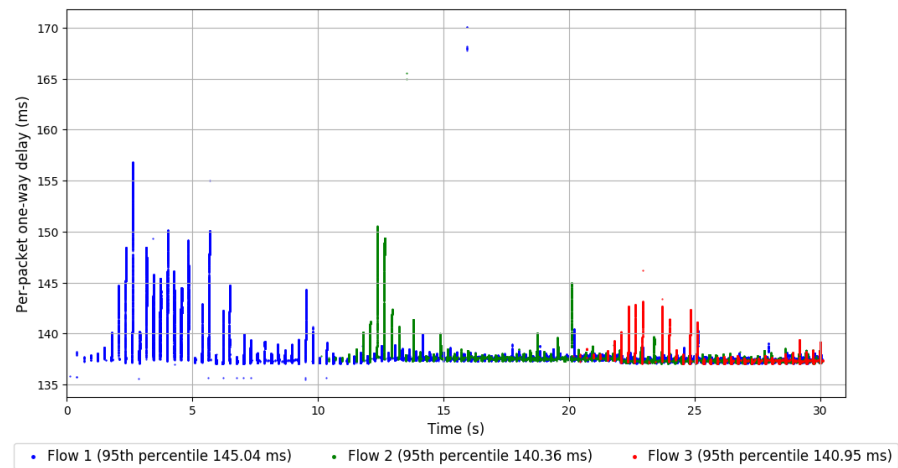
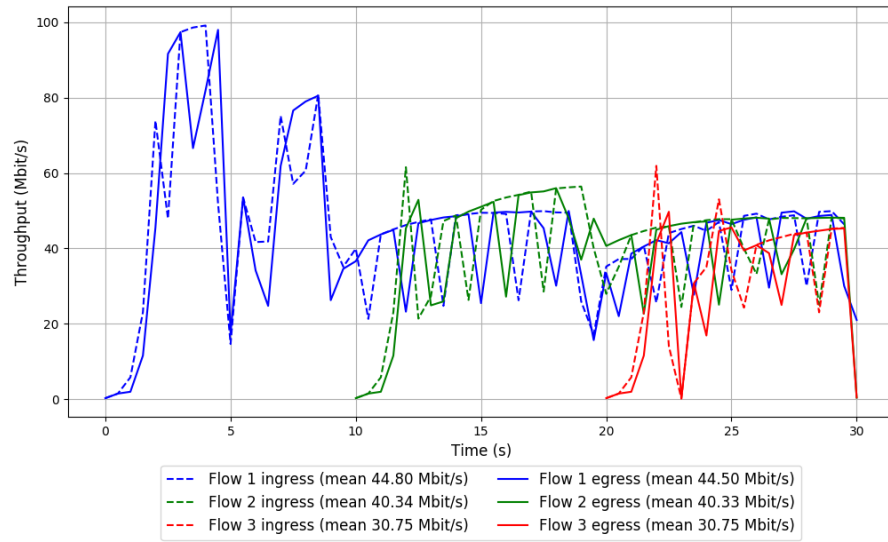
-- Flow 3:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 140.950 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-21 07:44:14

End at: 2017-12-21 07:44:44

Below is generated by plot.py at 2017-12-21 11:18:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 146.498 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 141.225 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 146.927 ms

Loss rate: 0.01%

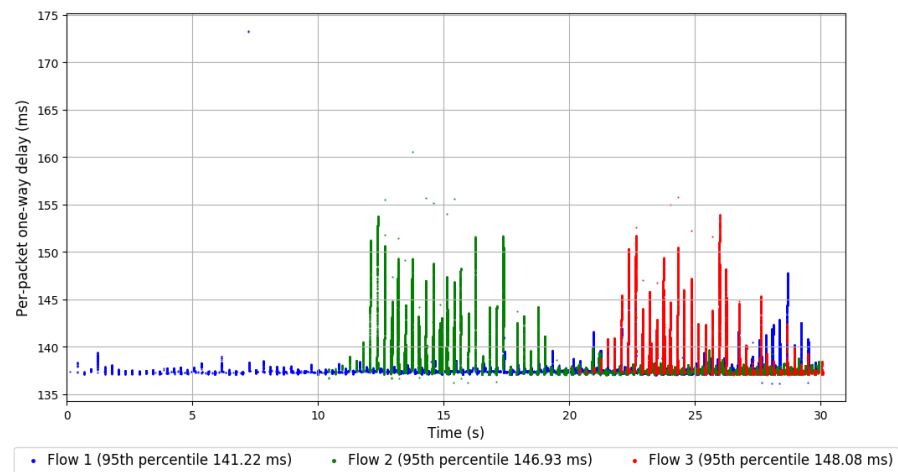
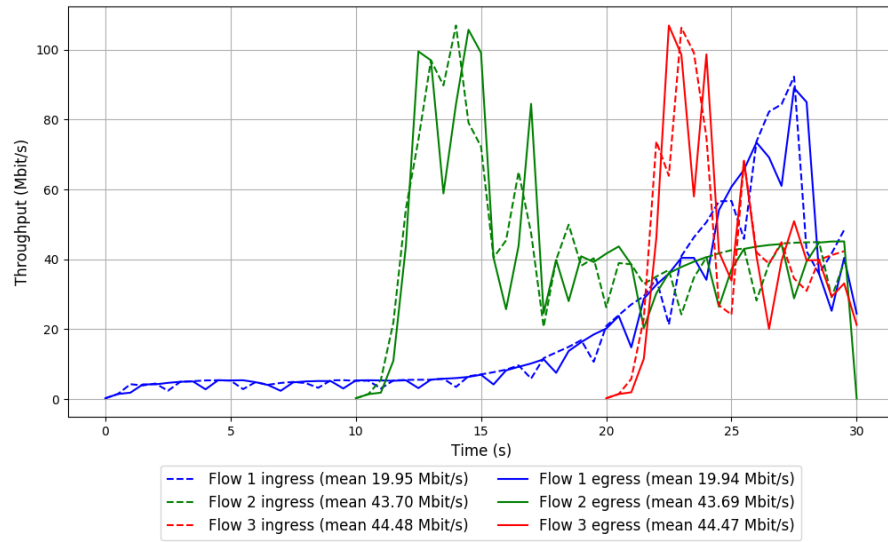
-- Flow 3:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 148.079 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-21 08:00:12

End at: 2017-12-21 08:00:42

Below is generated by plot.py at 2017-12-21 11:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 145.631 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 143.460 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 147.613 ms

Loss rate: 0.02%

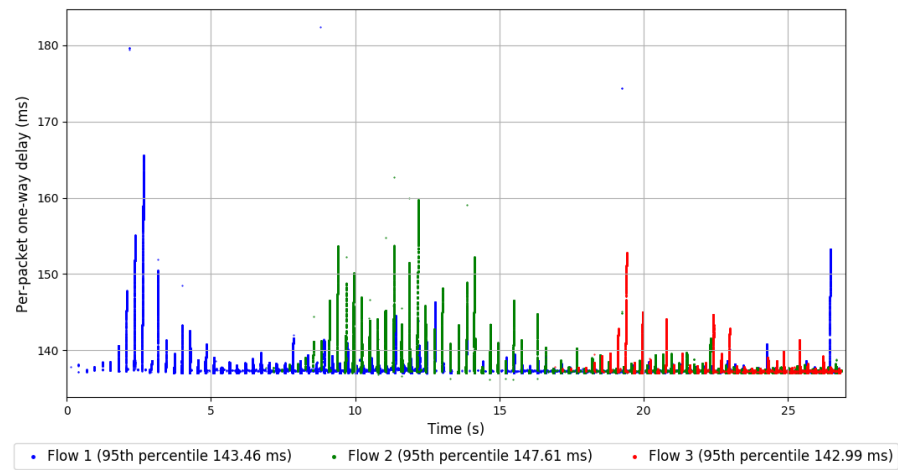
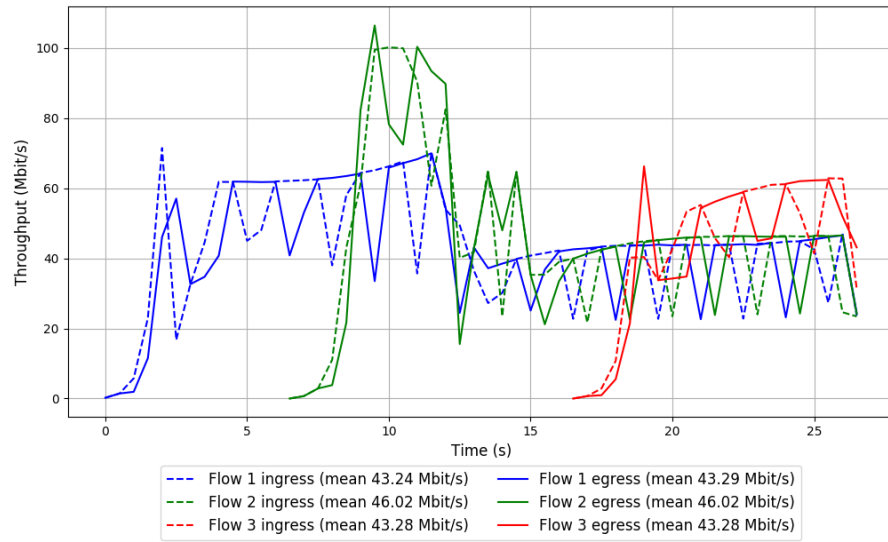
-- Flow 3:

Average throughput: 43.28 Mbit/s

95th percentile per-packet one-way delay: 142.985 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

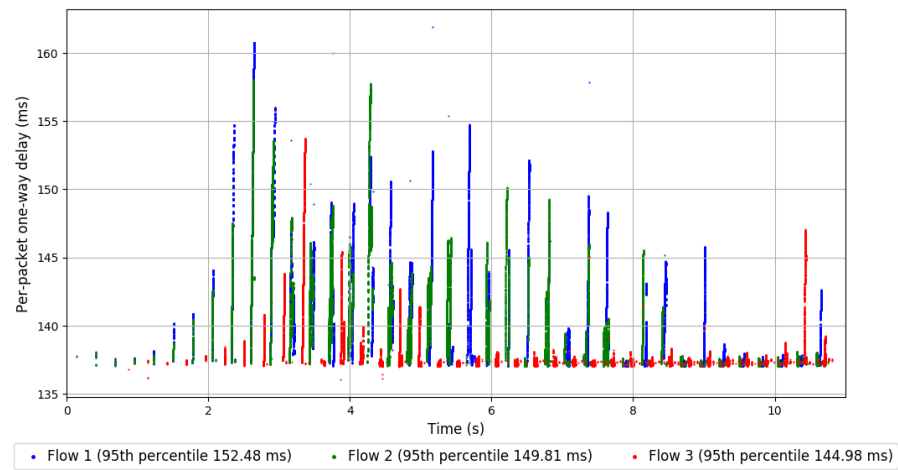
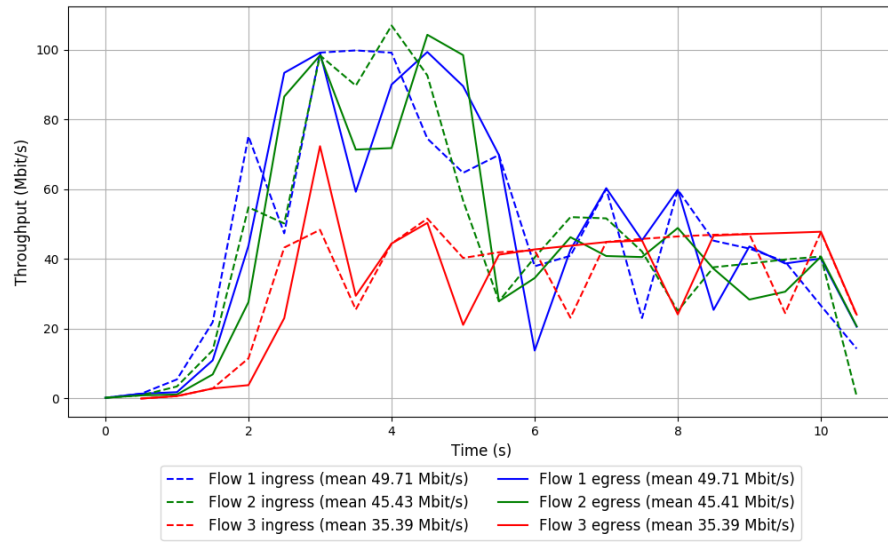


Run 4: Statistics of TCP Cubic

Start at: 2017-12-21 08:16:31

End at: 2017-12-21 08:17:01

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-21 08:32:01

End at: 2017-12-21 08:32:31

Below is generated by plot.py at 2017-12-21 11:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 166.653 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 167.816 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 164.658 ms

Loss rate: 0.43%

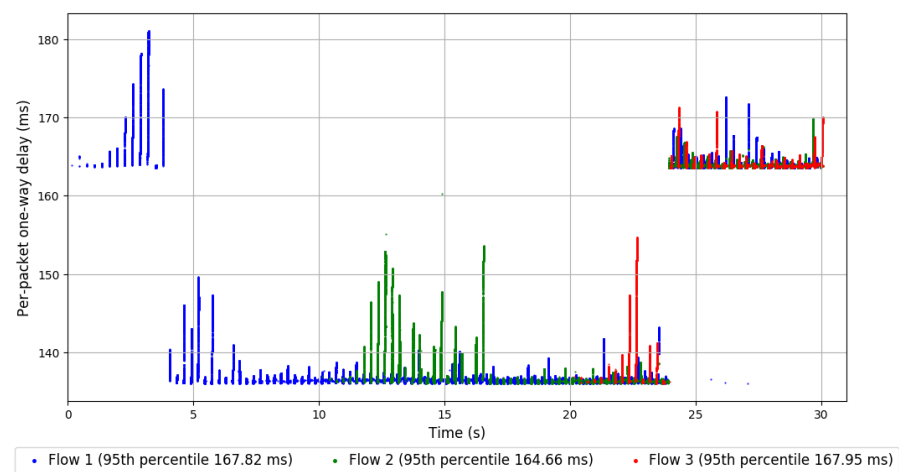
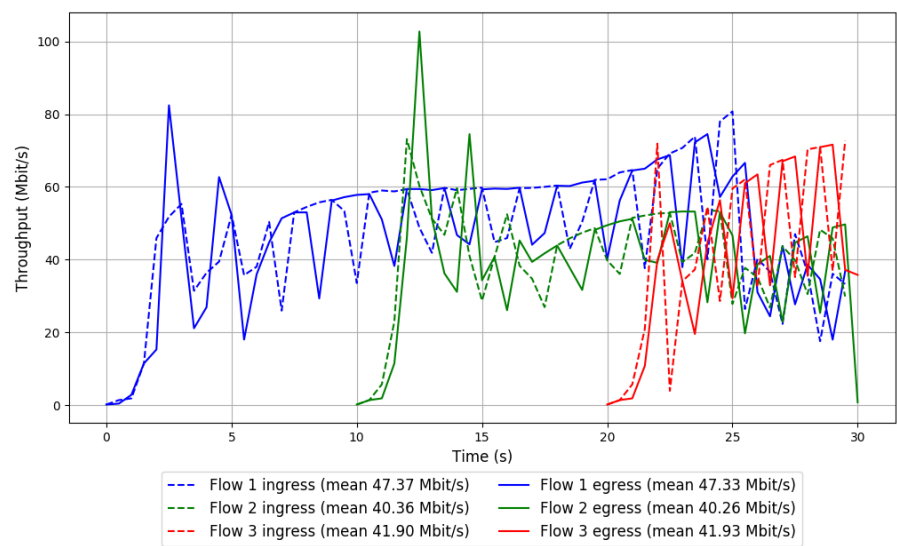
-- Flow 3:

Average throughput: 41.93 Mbit/s

95th percentile per-packet one-way delay: 167.953 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-21 08:47:33

End at: 2017-12-21 08:48:03

Below is generated by plot.py at 2017-12-21 11:19:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 176.163 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 59.94 Mbit/s

95th percentile per-packet one-way delay: 173.423 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 41.26 Mbit/s

95th percentile per-packet one-way delay: 176.174 ms

Loss rate: 0.04%

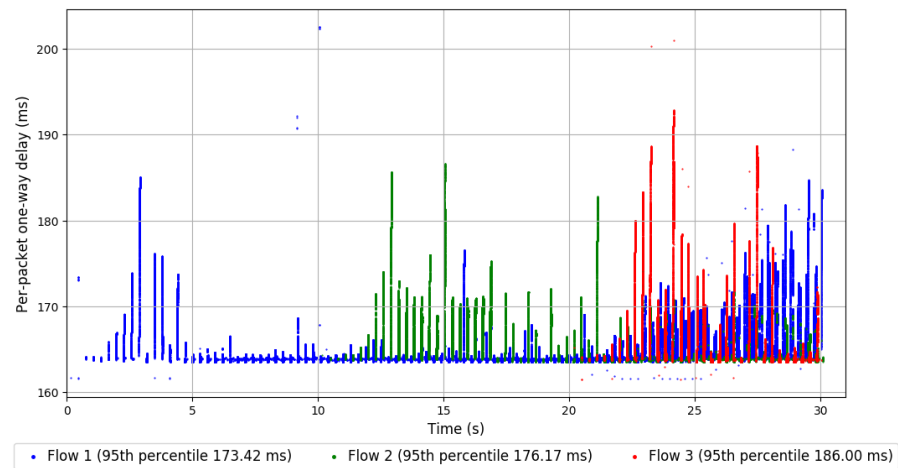
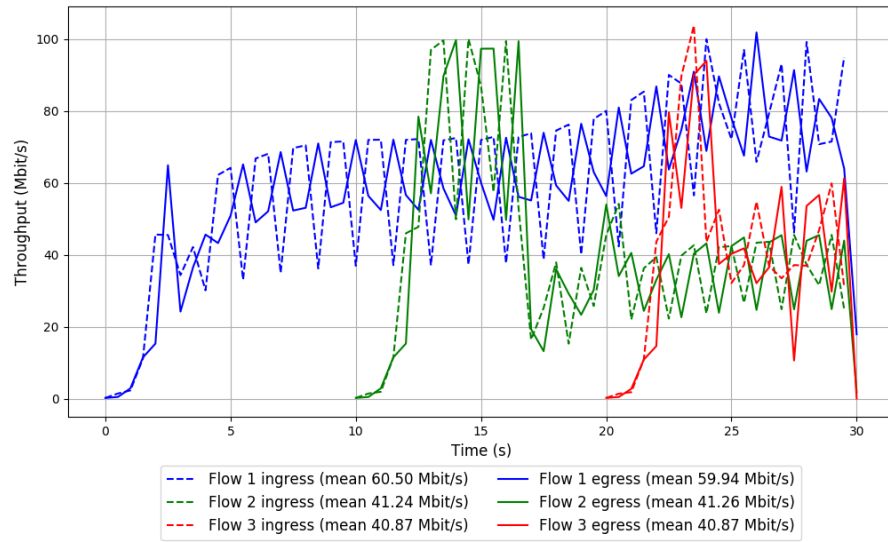
-- Flow 3:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 185.998 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-21 09:03:14

End at: 2017-12-21 09:03:44

Below is generated by plot.py at 2017-12-21 11:19:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 142.457 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 38.06 Mbit/s

95th percentile per-packet one-way delay: 140.927 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 142.011 ms

Loss rate: 0.05%

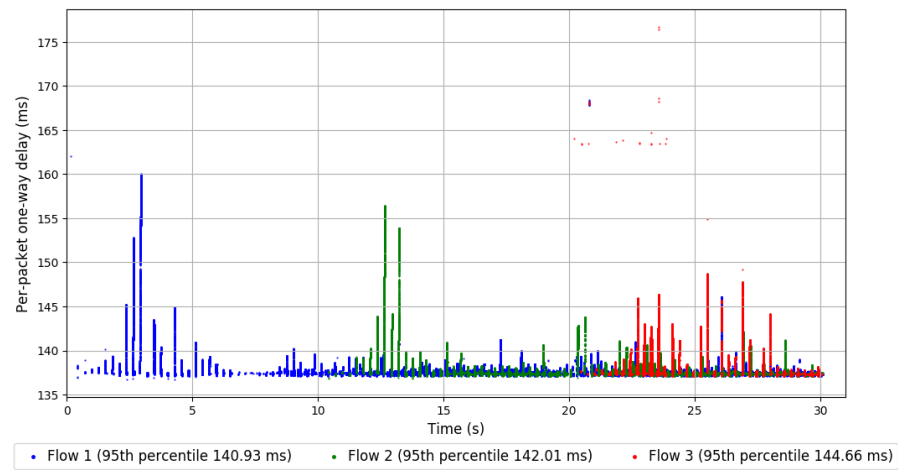
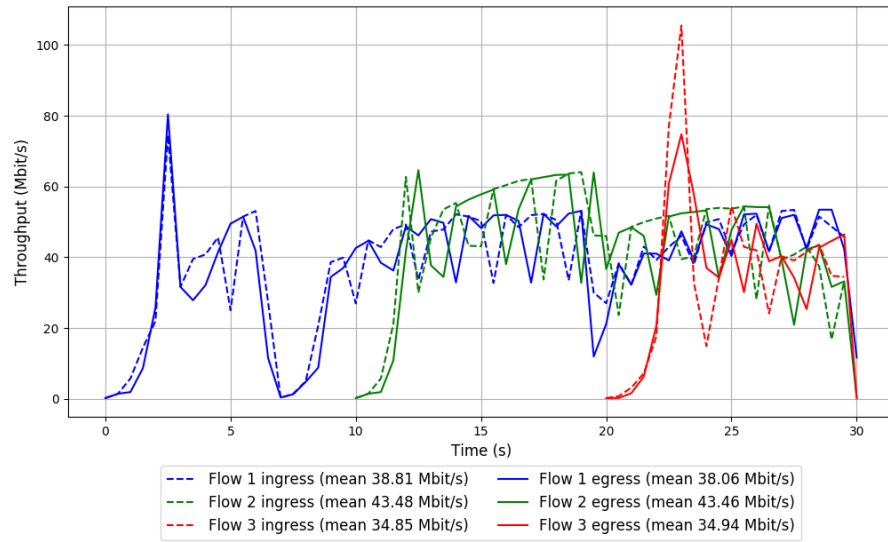
-- Flow 3:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 144.663 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-21 09:19:33

End at: 2017-12-21 09:20:03

Below is generated by plot.py at 2017-12-21 11:19:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.50 Mbit/s

95th percentile per-packet one-way delay: 147.318 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 139.074 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 142.233 ms

Loss rate: 0.02%

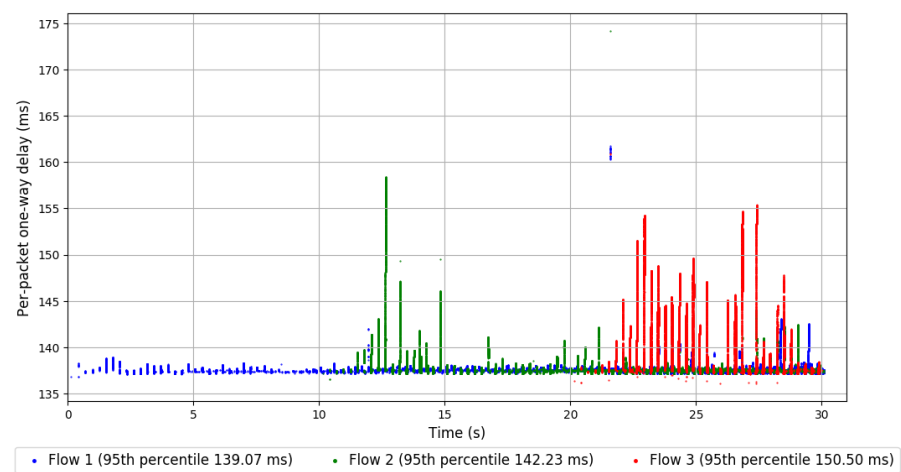
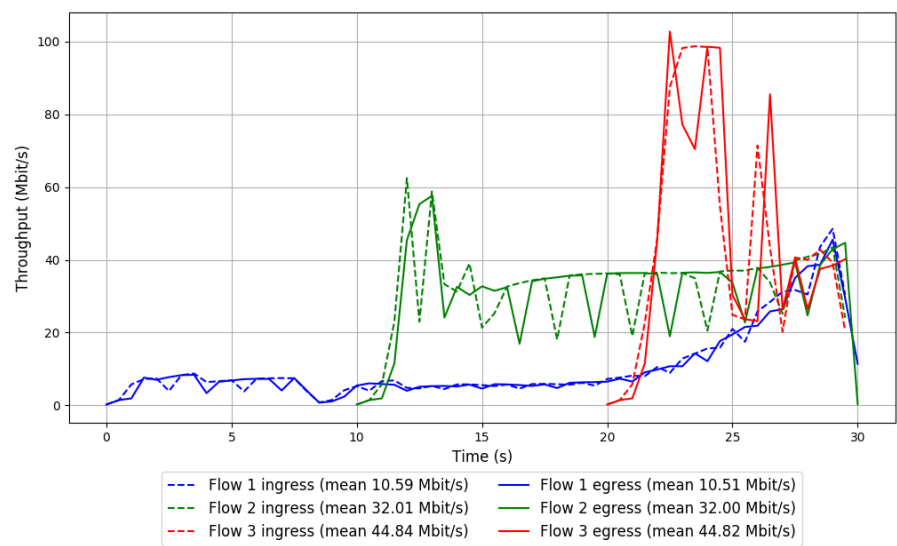
-- Flow 3:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 150.498 ms

Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-21 09:35:46

End at: 2017-12-21 09:36:16

Below is generated by plot.py at 2017-12-21 11:19:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 143.043 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 140.517 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 143.476 ms

Loss rate: 0.00%

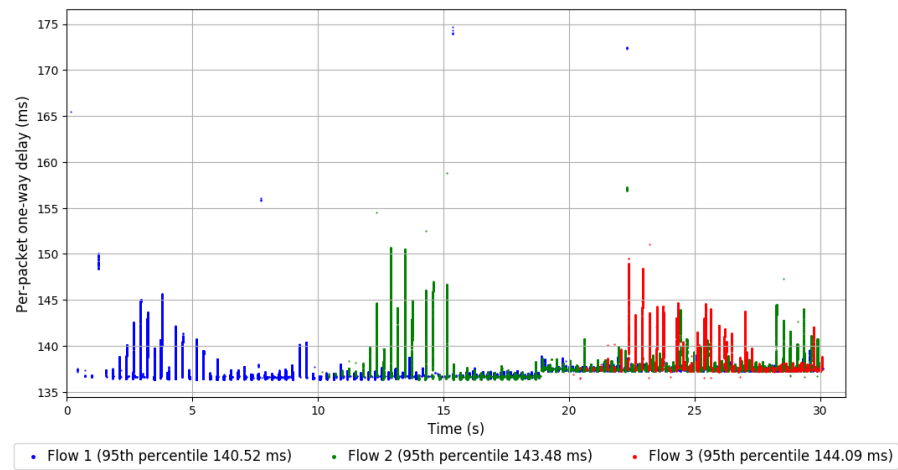
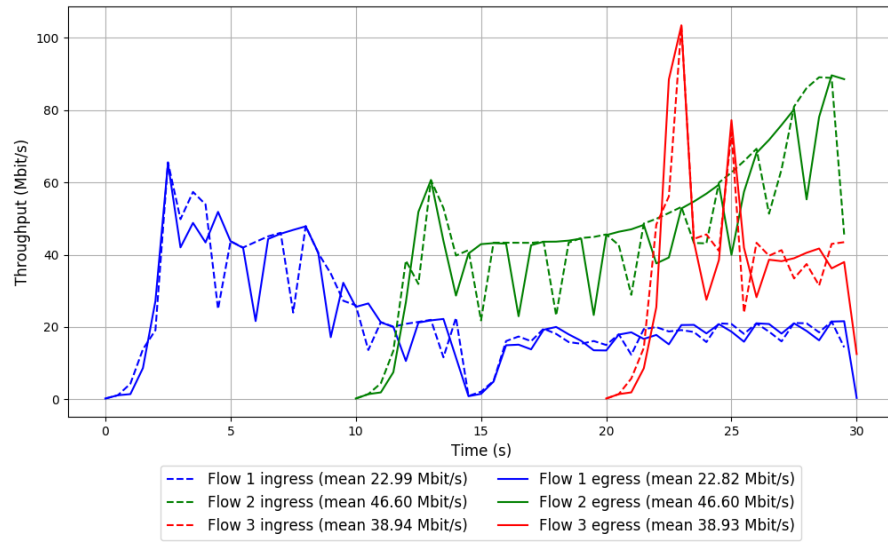
-- Flow 3:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 144.087 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link

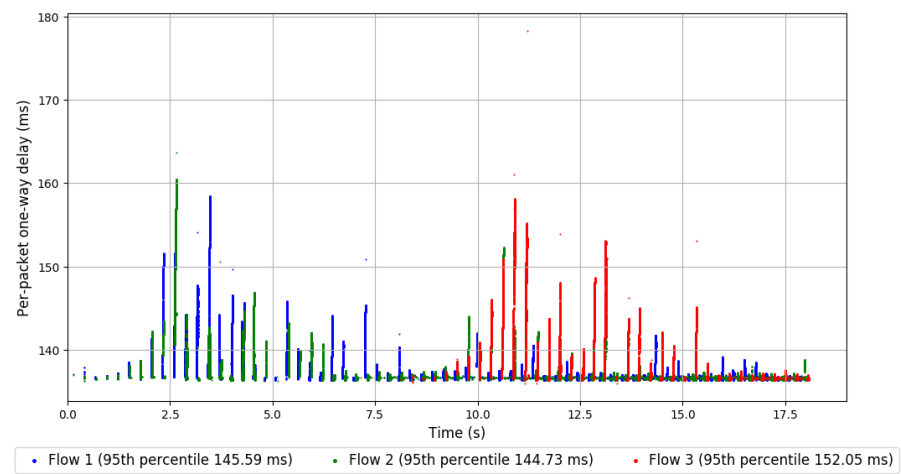
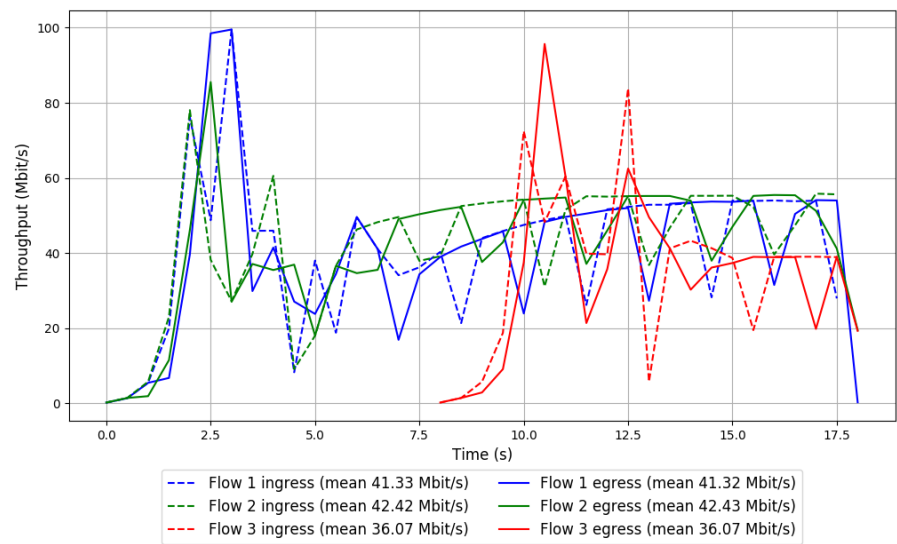


Run 10: Statistics of TCP Cubic

Start at: 2017-12-21 09:52:04

End at: 2017-12-21 09:52:34

Run 10: Report of TCP Cubic — Data Link

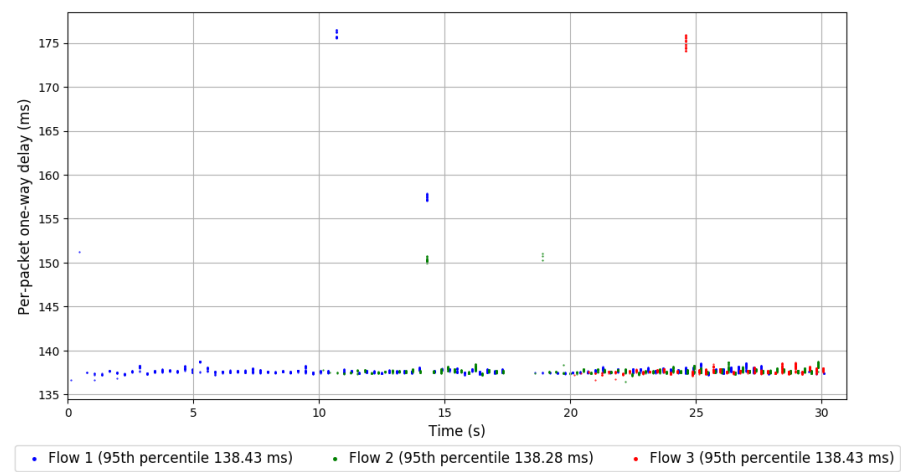
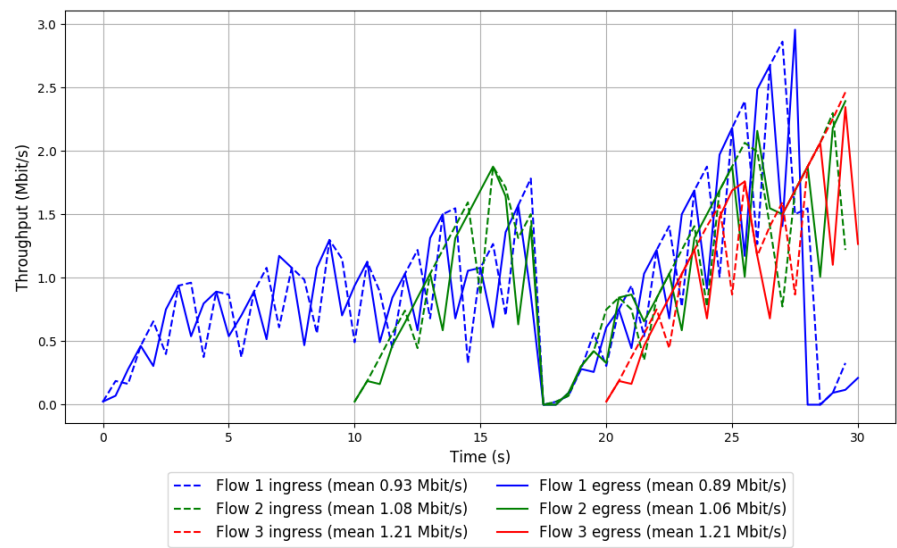


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-21 07:31:48
End at: 2017-12-21 07:32:18

# Below is generated by plot.py at 2017-12-21 11:19:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 138.353 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 138.425 ms
Loss rate: 4.66%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 138.278 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 138.426 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

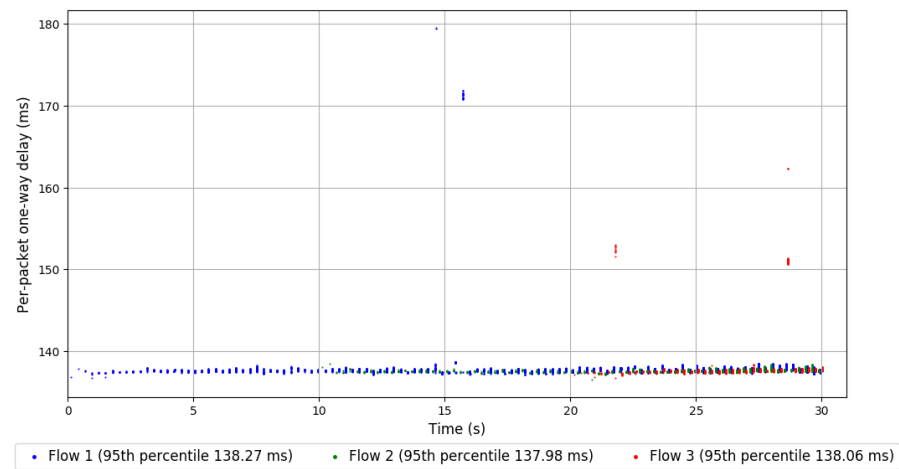
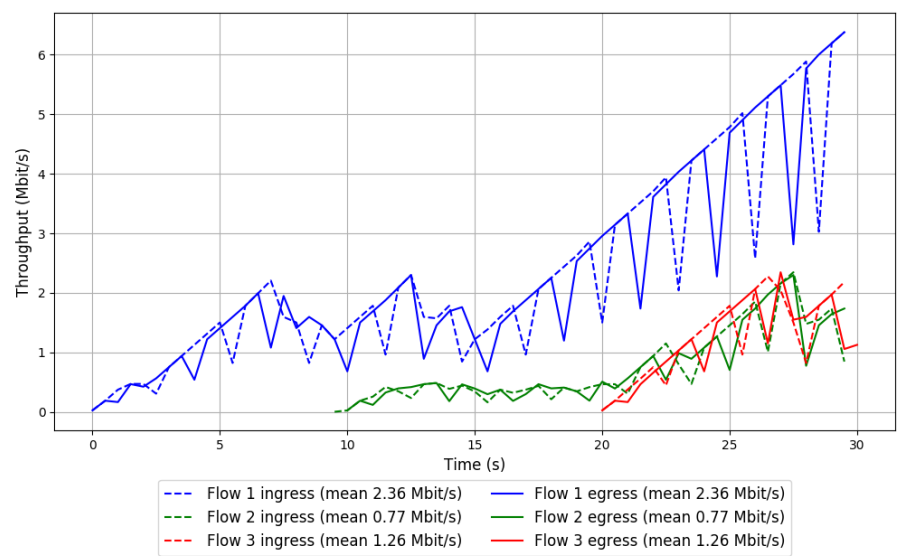


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-21 07:46:47
End at: 2017-12-21 07:47:17

# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 138.229 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 138.272 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 137.984 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 138.063 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-21 08:02:48

End at: 2017-12-21 08:03:18

Below is generated by plot.py at 2017-12-21 11:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 138.511 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 138.608 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 138.174 ms

Loss rate: 0.00%

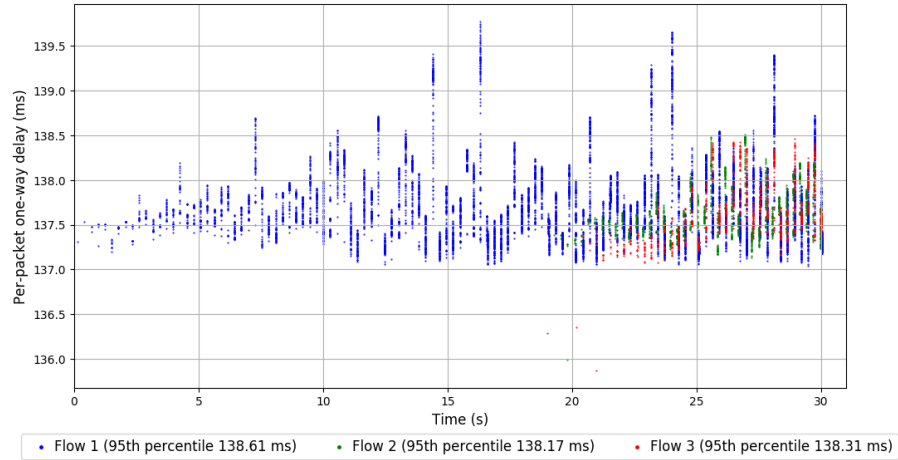
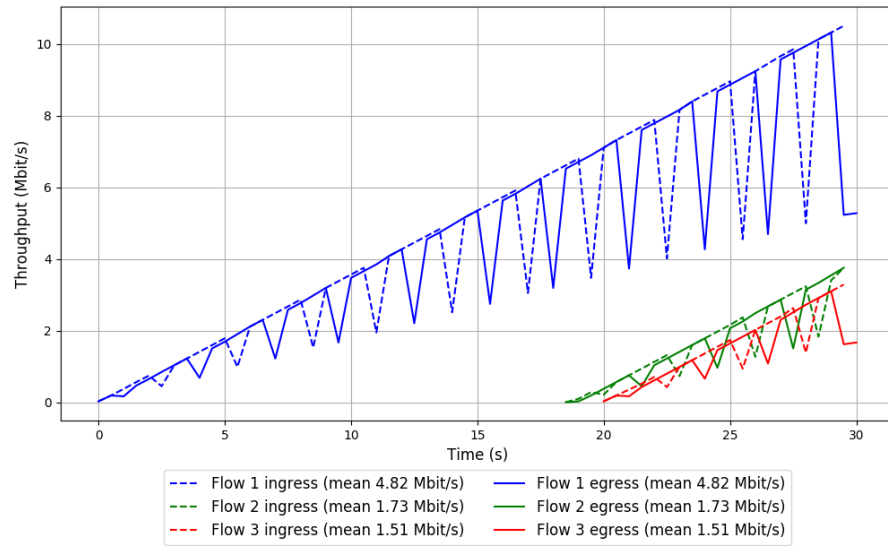
-- Flow 3:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 138.314 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-21 08:19:05

End at: 2017-12-21 08:19:35

Below is generated by plot.py at 2017-12-21 11:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 138.232 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 138.233 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 138.239 ms

Loss rate: 0.23%

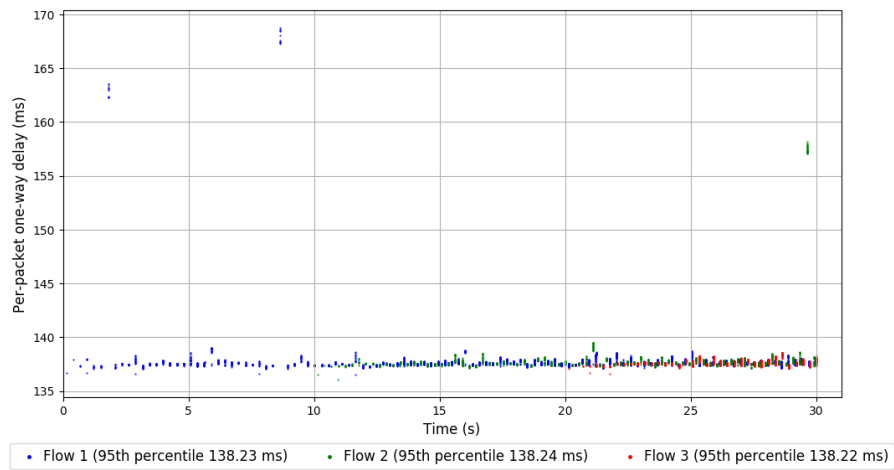
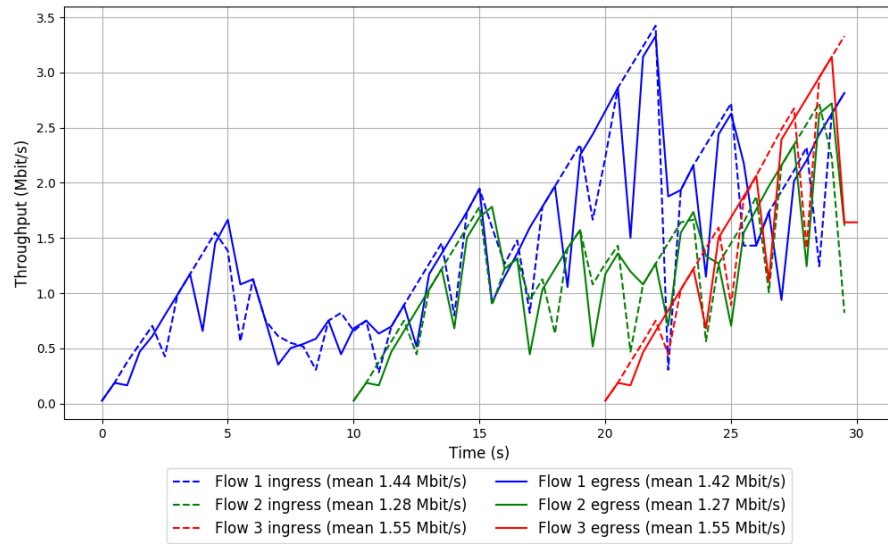
-- Flow 3:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 138.222 ms

Loss rate: 0.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-21 08:34:36

End at: 2017-12-21 08:35:06

Below is generated by plot.py at 2017-12-21 11:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 165.080 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 164.810 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 165.466 ms

Loss rate: 0.00%

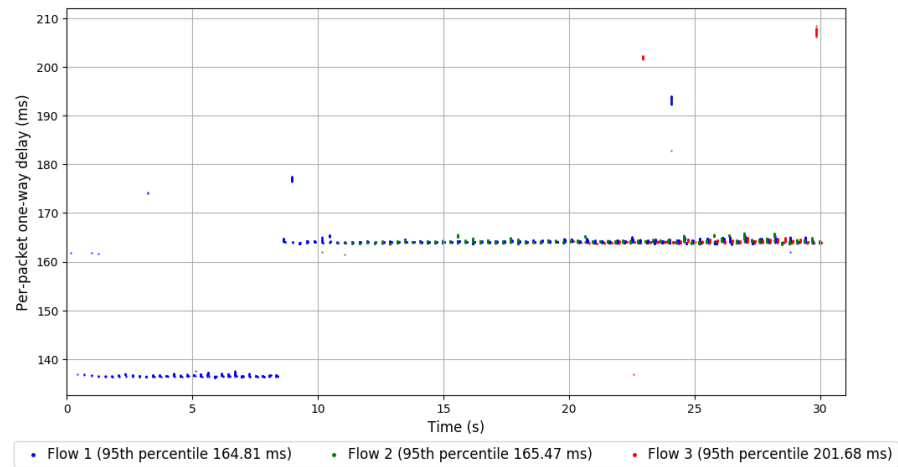
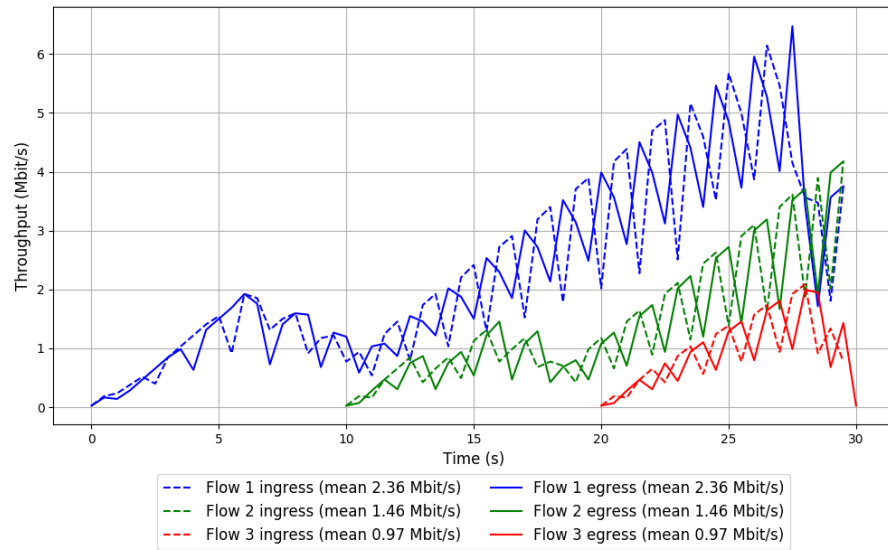
-- Flow 3:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 201.680 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

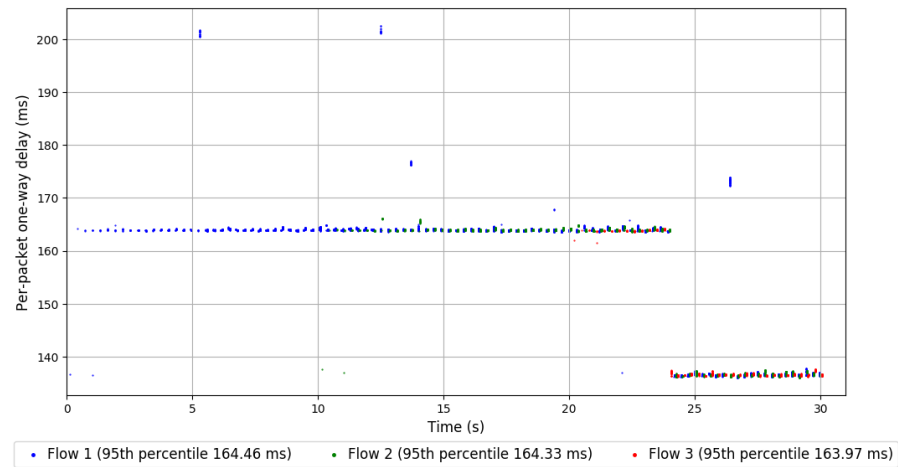
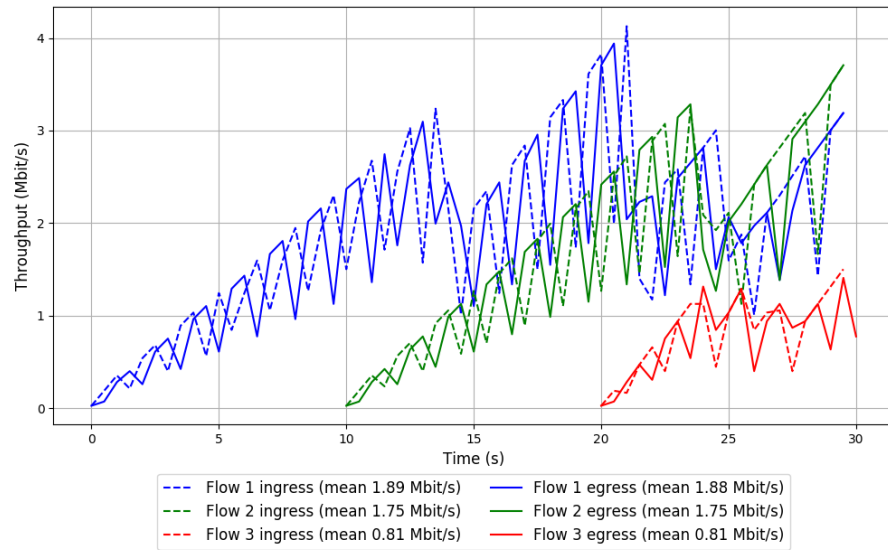


```
Run 6: Statistics of LEDBAT

Start at: 2017-12-21 08:50:11
End at: 2017-12-21 08:50:41

# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 164.383 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 164.461 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 164.331 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 163.969 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-21 09:05:49

End at: 2017-12-21 09:06:19

Below is generated by plot.py at 2017-12-21 11:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 138.741 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 140.843 ms

Loss rate: 3.51%

-- Flow 2:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 138.174 ms

Loss rate: 0.89%

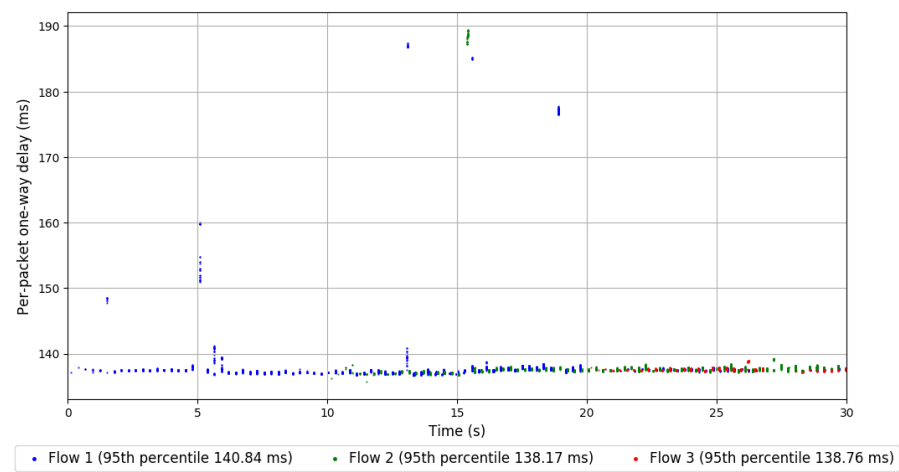
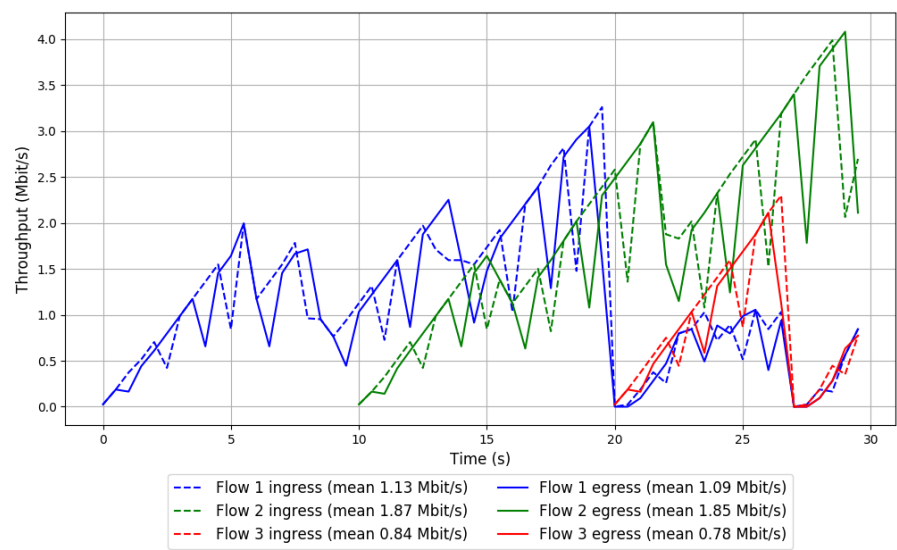
-- Flow 3:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 138.761 ms

Loss rate: 7.09%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-21 09:22:07

End at: 2017-12-21 09:22:37

Below is generated by plot.py at 2017-12-21 11:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 138.155 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 138.021 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 138.433 ms

Loss rate: 0.00%

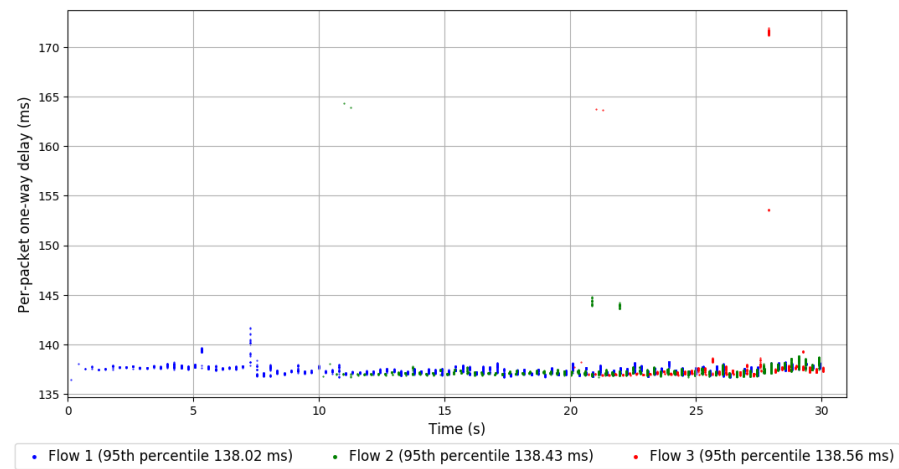
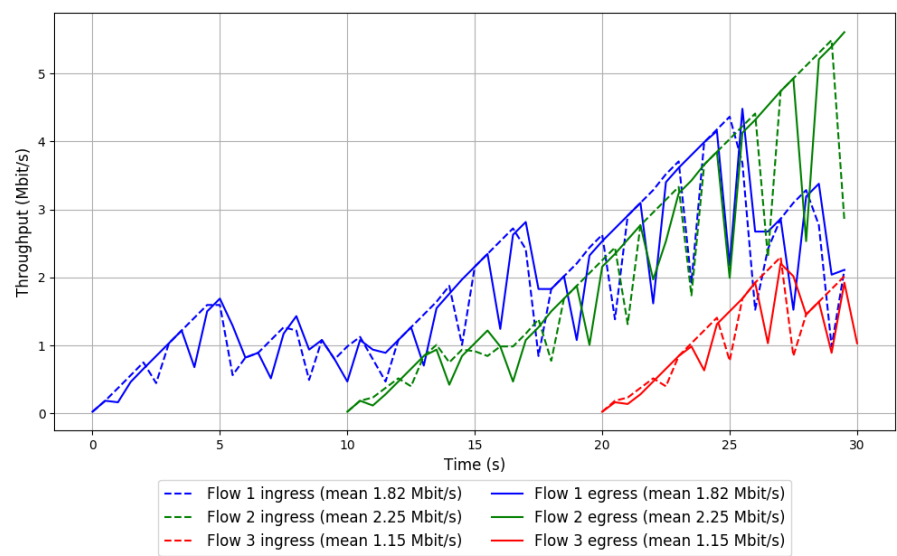
-- Flow 3:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 138.557 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-21 09:38:21

End at: 2017-12-21 09:38:51

Below is generated by plot.py at 2017-12-21 11:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 137.408 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 137.656 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 137.335 ms

Loss rate: 0.00%

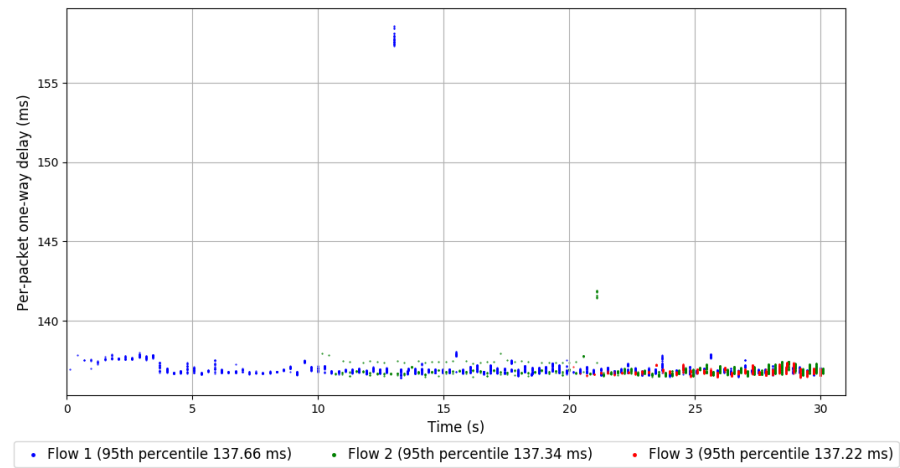
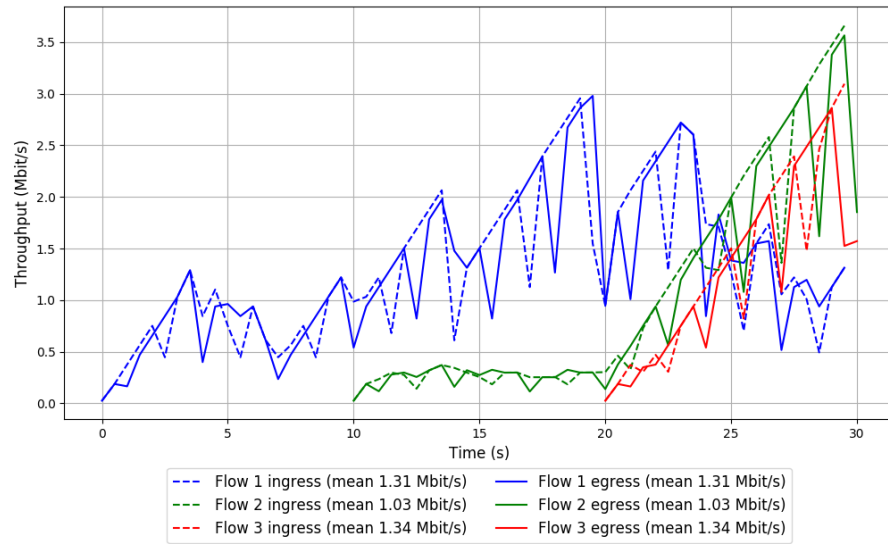
-- Flow 3:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 137.218 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-21 09:54:37

End at: 2017-12-21 09:55:07

Below is generated by plot.py at 2017-12-21 11:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 138.080 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 138.087 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 138.039 ms

Loss rate: 0.00%

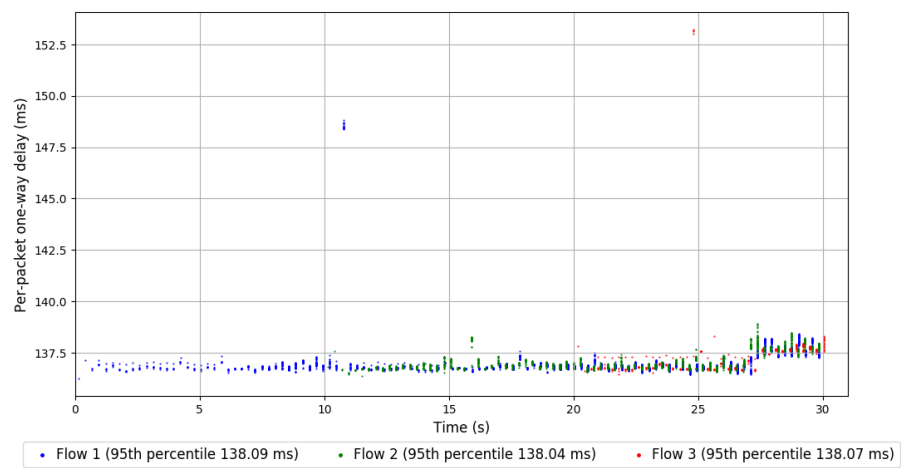
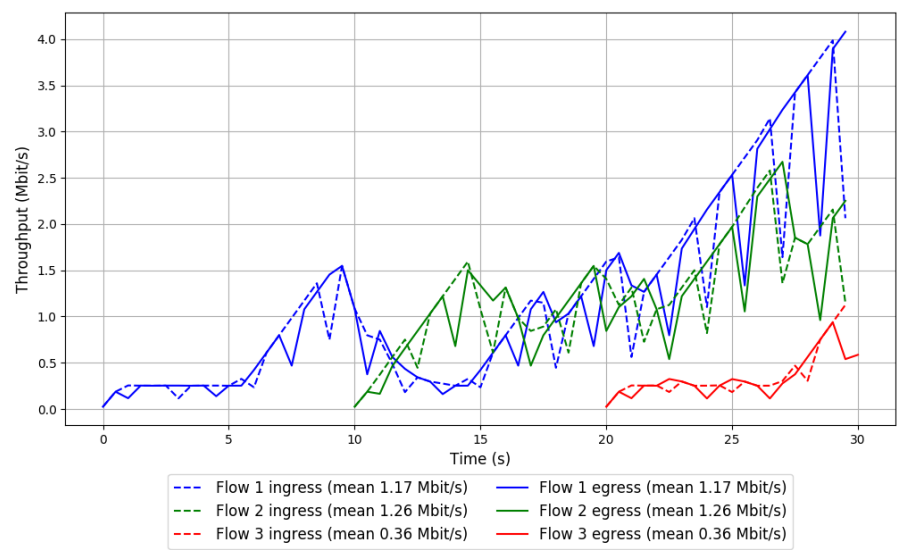
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 138.073 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

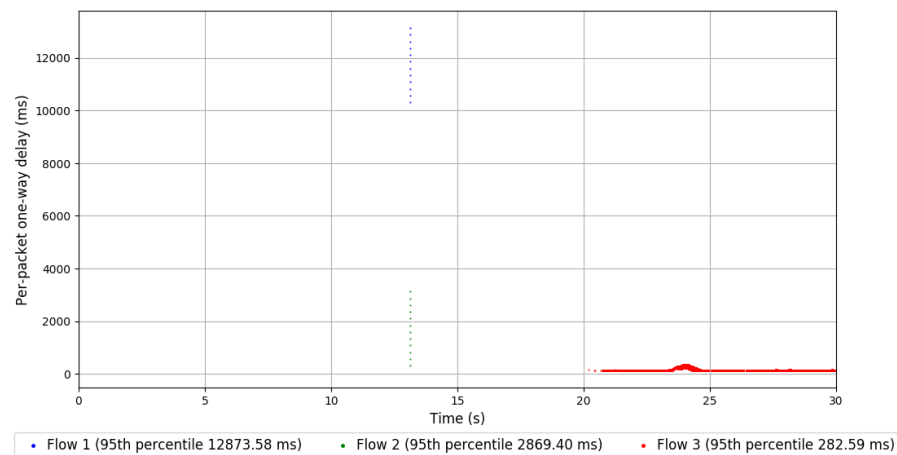
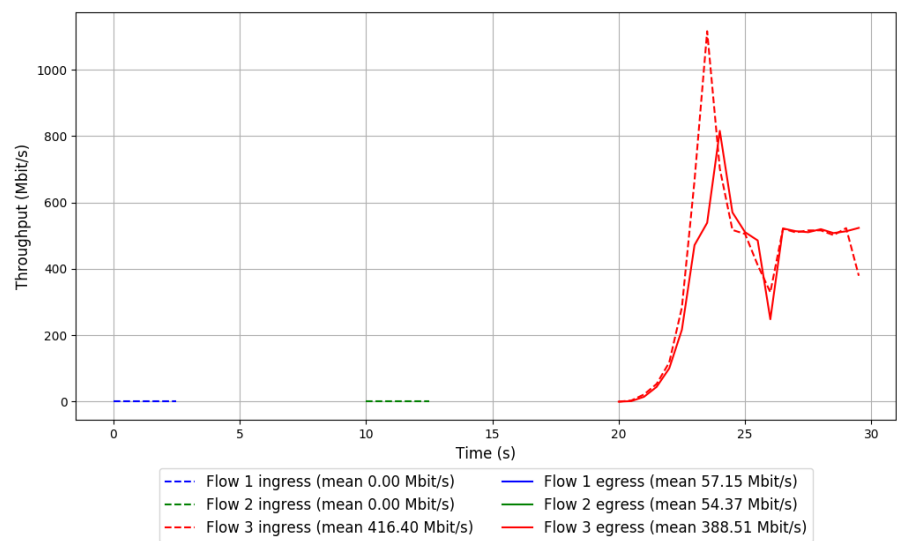


Run 1: Statistics of PCC

Start at: 2017-12-21 07:35:37

End at: 2017-12-21 07:36:07

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-21 07:50:56

End at: 2017-12-21 07:51:26

Below is generated by plot.py at 2017-12-21 11:28:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 588.87 Mbit/s

95th percentile per-packet one-way delay: 247.743 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 503.32 Mbit/s

95th percentile per-packet one-way delay: 248.115 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 124.79 Mbit/s

95th percentile per-packet one-way delay: 246.802 ms

Loss rate: 1.76%

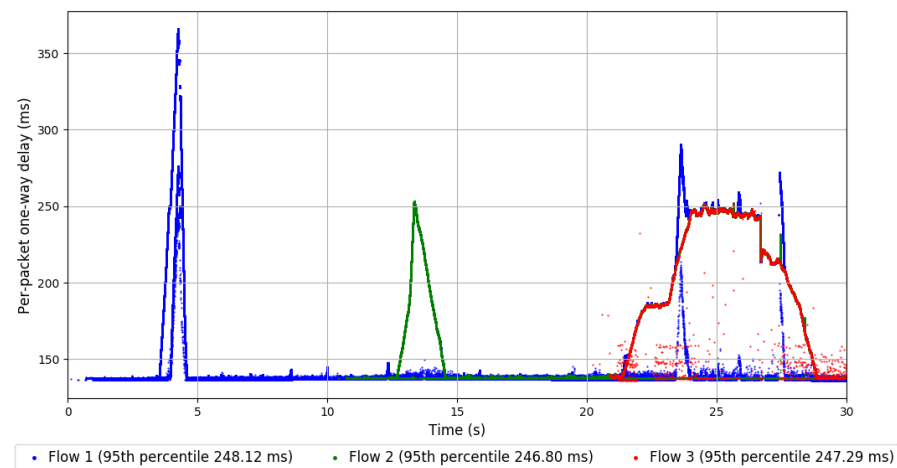
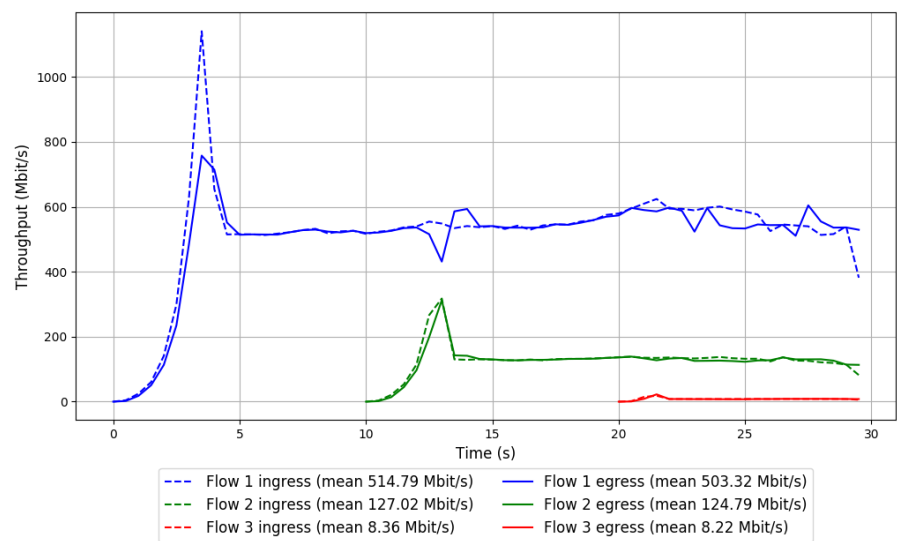
-- Flow 3:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 247.294 ms

Loss rate: 1.74%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-21 08:06:53

End at: 2017-12-21 08:07:23

Below is generated by plot.py at 2017-12-21 11:28:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 598.47 Mbit/s

95th percentile per-packet one-way delay: 251.436 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 478.25 Mbit/s

95th percentile per-packet one-way delay: 255.692 ms

Loss rate: 3.66%

-- Flow 2:

Average throughput: 123.79 Mbit/s

95th percentile per-packet one-way delay: 240.782 ms

Loss rate: 2.77%

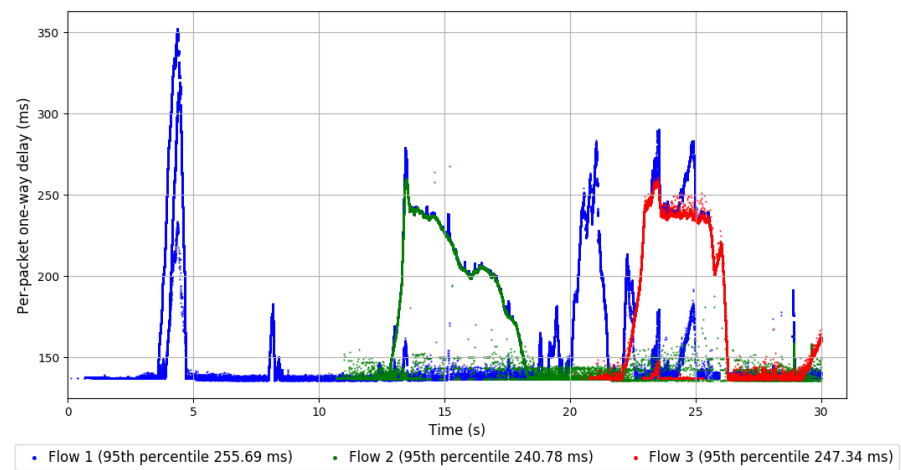
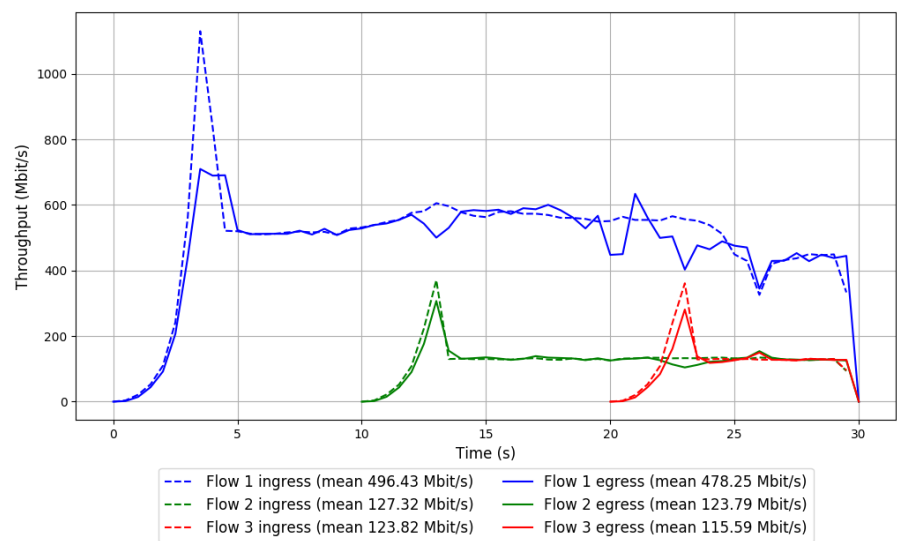
-- Flow 3:

Average throughput: 115.59 Mbit/s

95th percentile per-packet one-way delay: 247.337 ms

Loss rate: 6.67%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-21 08:23:16

End at: 2017-12-21 08:23:46

Below is generated by plot.py at 2017-12-21 11:28:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.14 Mbit/s

95th percentile per-packet one-way delay: 278.146 ms

Loss rate: 3.21%

-- Flow 1:

Average throughput: 483.01 Mbit/s

95th percentile per-packet one-way delay: 285.404 ms

Loss rate: 3.26%

-- Flow 2:

Average throughput: 128.90 Mbit/s

95th percentile per-packet one-way delay: 244.911 ms

Loss rate: 2.73%

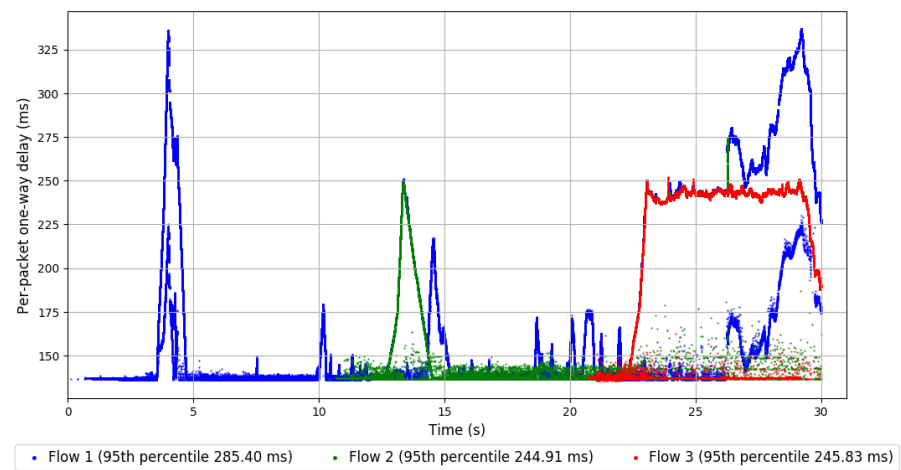
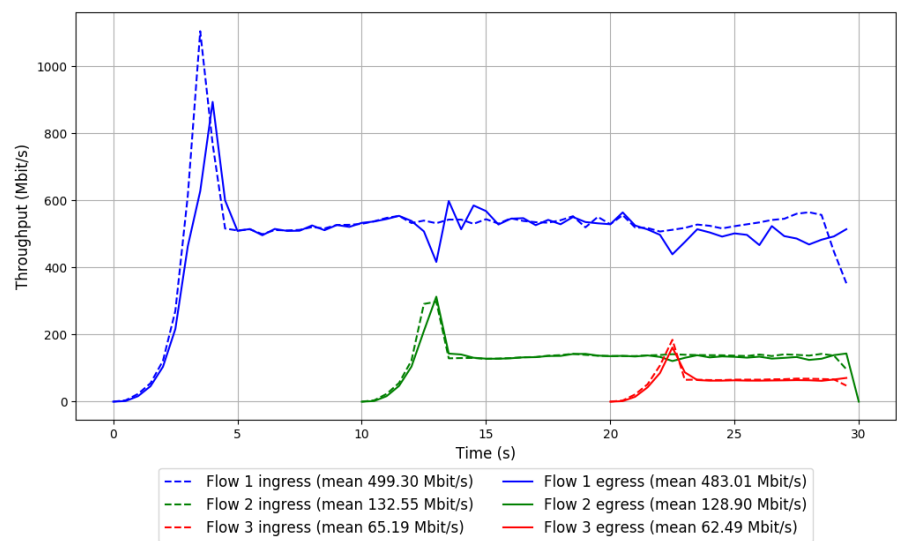
-- Flow 3:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 245.833 ms

Loss rate: 4.14%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-21 08:38:44

End at: 2017-12-21 08:39:14

Below is generated by plot.py at 2017-12-21 11:28:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.97 Mbit/s

95th percentile per-packet one-way delay: 191.446 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 167.575 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 458.09 Mbit/s

95th percentile per-packet one-way delay: 193.386 ms

Loss rate: 1.54%

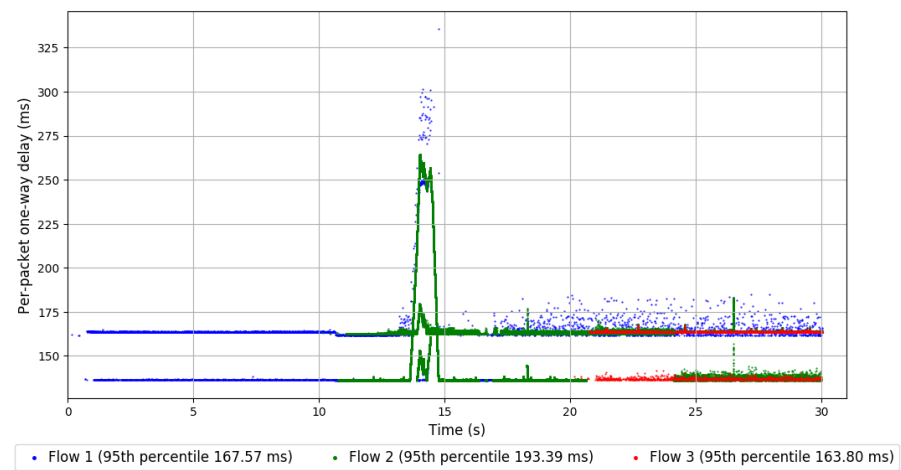
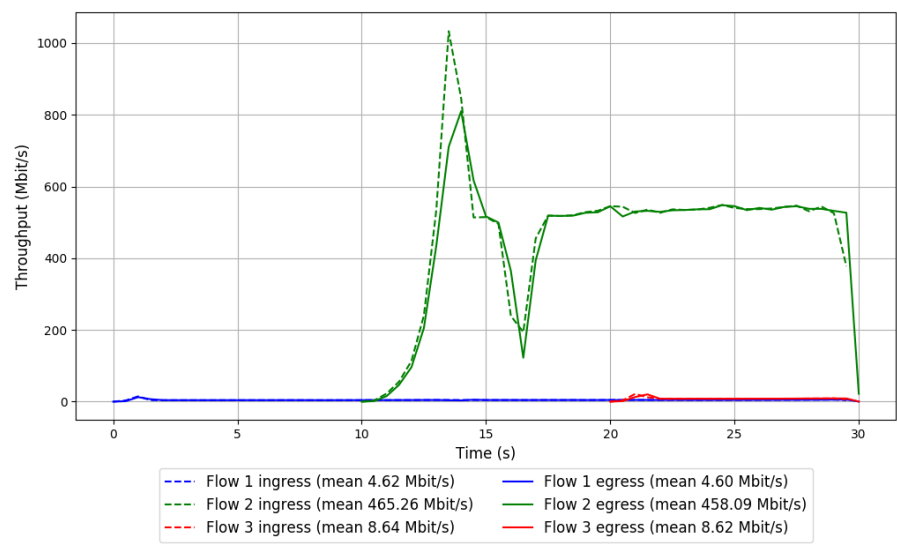
-- Flow 3:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 163.803 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-21 08:54:16

End at: 2017-12-21 08:54:46

Below is generated by plot.py at 2017-12-21 11:28:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.81 Mbit/s

95th percentile per-packet one-way delay: 185.202 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 164.811 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 461.85 Mbit/s

95th percentile per-packet one-way delay: 187.924 ms

Loss rate: 1.59%

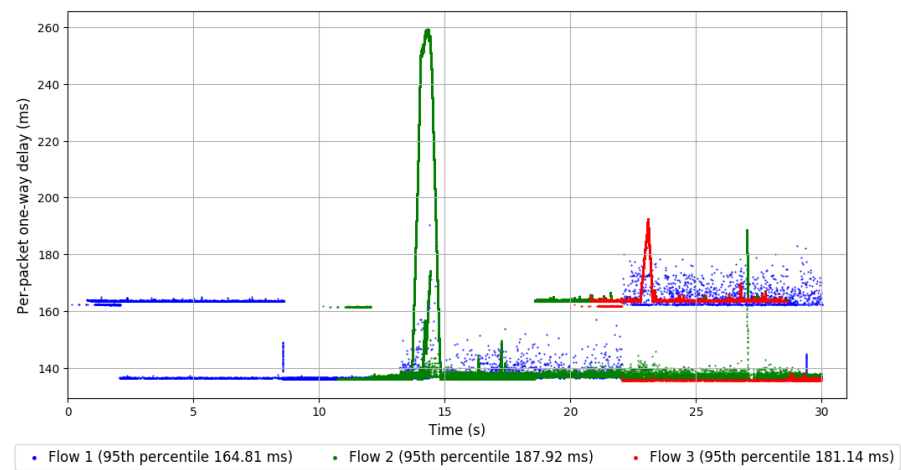
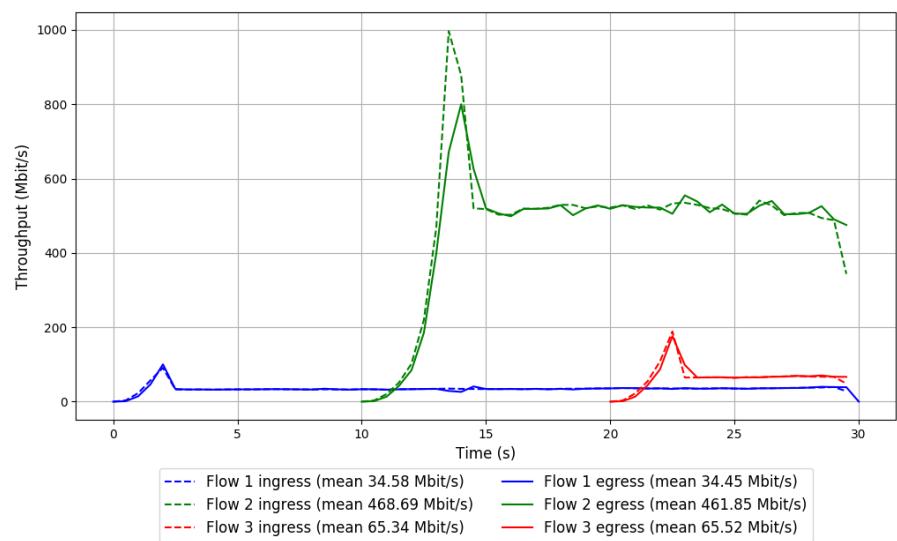
-- Flow 3:

Average throughput: 65.52 Mbit/s

95th percentile per-packet one-way delay: 181.144 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-21 09:09:55

End at: 2017-12-21 09:10:25

Below is generated by plot.py at 2017-12-21 11:28:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.06 Mbit/s

95th percentile per-packet one-way delay: 291.261 ms

Loss rate: 5.81%

-- Flow 1:

Average throughput: 440.82 Mbit/s

95th percentile per-packet one-way delay: 303.923 ms

Loss rate: 6.15%

-- Flow 2:

Average throughput: 124.79 Mbit/s

95th percentile per-packet one-way delay: 242.284 ms

Loss rate: 3.61%

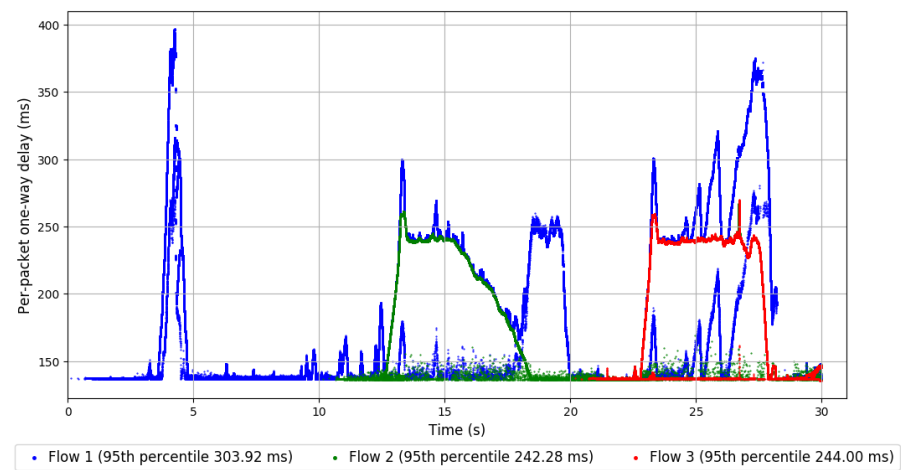
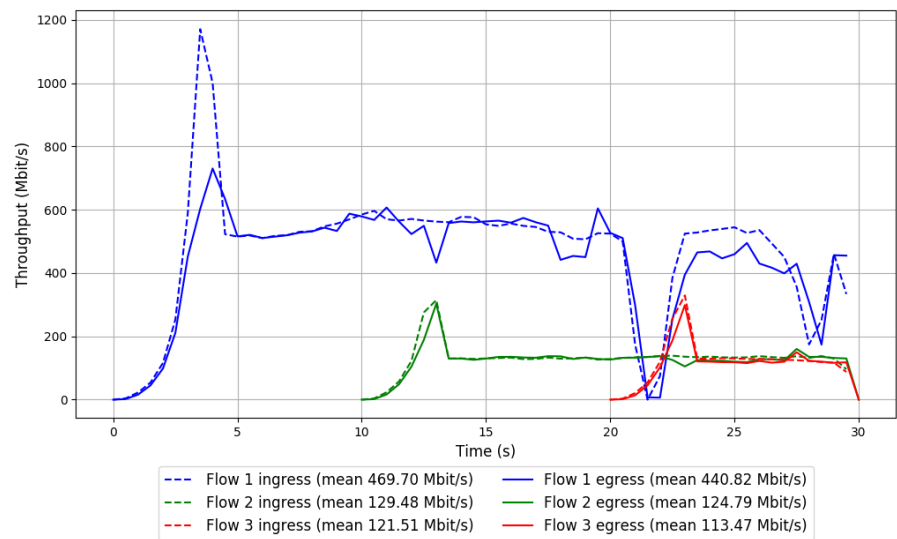
-- Flow 3:

Average throughput: 113.47 Mbit/s

95th percentile per-packet one-way delay: 243.998 ms

Loss rate: 6.60%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-21 09:26:15

End at: 2017-12-21 09:26:45

Below is generated by plot.py at 2017-12-21 11:29:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 600.53 Mbit/s

95th percentile per-packet one-way delay: 264.974 ms

Loss rate: 3.35%

-- Flow 1:

Average throughput: 498.04 Mbit/s

95th percentile per-packet one-way delay: 282.471 ms

Loss rate: 3.47%

-- Flow 2:

Average throughput: 123.13 Mbit/s

95th percentile per-packet one-way delay: 242.695 ms

Loss rate: 2.52%

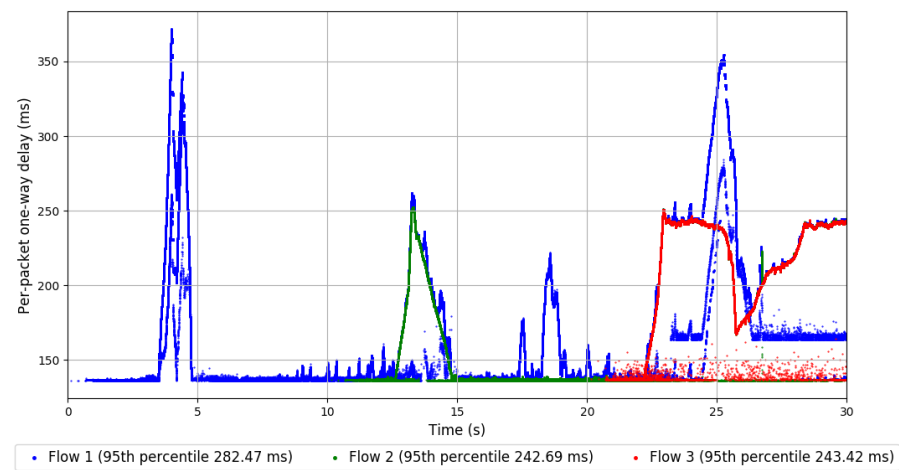
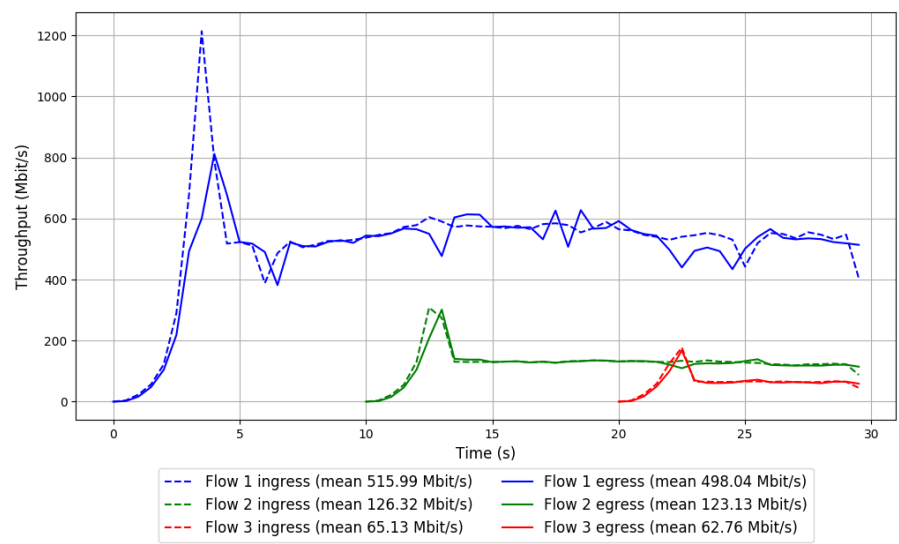
-- Flow 3:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 243.424 ms

Loss rate: 3.63%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-21 09:42:29

End at: 2017-12-21 09:42:59

Below is generated by plot.py at 2017-12-21 11:30:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 559.21 Mbit/s

95th percentile per-packet one-way delay: 317.654 ms

Loss rate: 3.04%

-- Flow 1:

Average throughput: 454.68 Mbit/s

95th percentile per-packet one-way delay: 328.610 ms

Loss rate: 3.40%

-- Flow 2:

Average throughput: 141.06 Mbit/s

95th percentile per-packet one-way delay: 241.073 ms

Loss rate: 1.44%

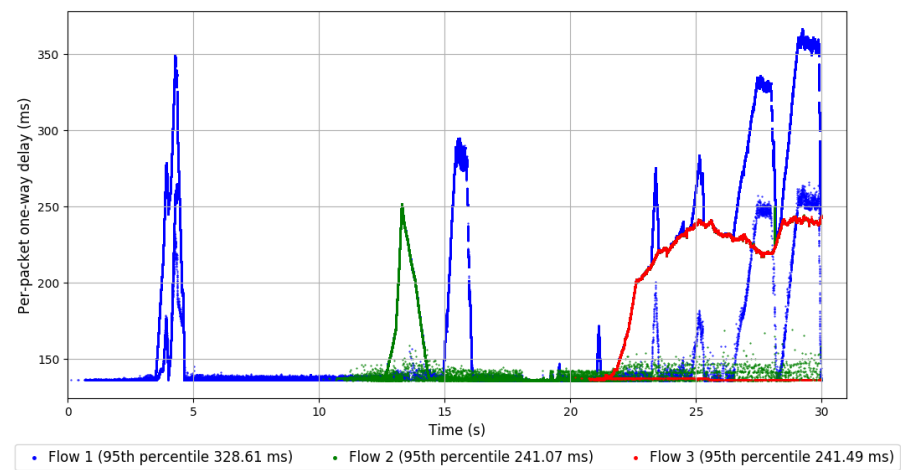
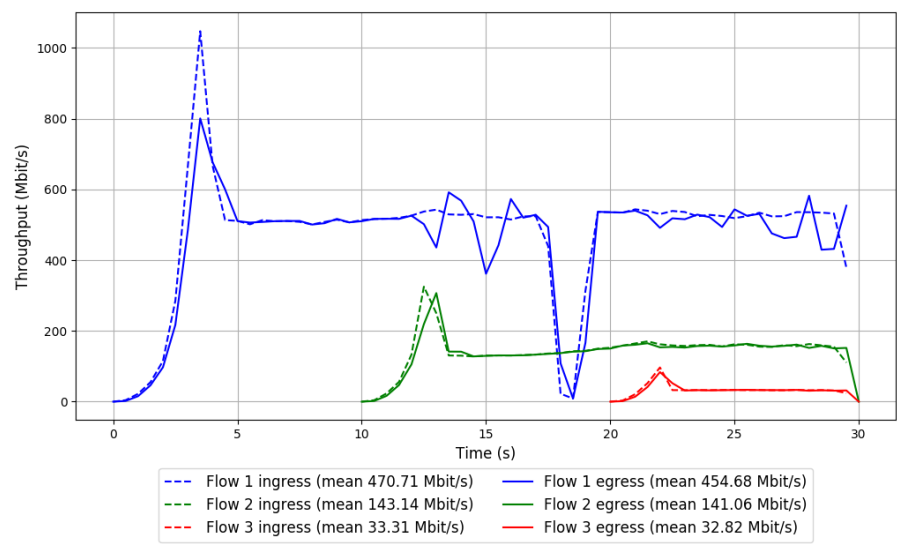
-- Flow 3:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 241.493 ms

Loss rate: 1.45%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-21 09:58:43

End at: 2017-12-21 09:59:13

Below is generated by plot.py at 2017-12-21 11:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 612.65 Mbit/s

95th percentile per-packet one-way delay: 256.454 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 548.46 Mbit/s

95th percentile per-packet one-way delay: 264.072 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 65.33 Mbit/s

95th percentile per-packet one-way delay: 235.975 ms

Loss rate: 0.90%

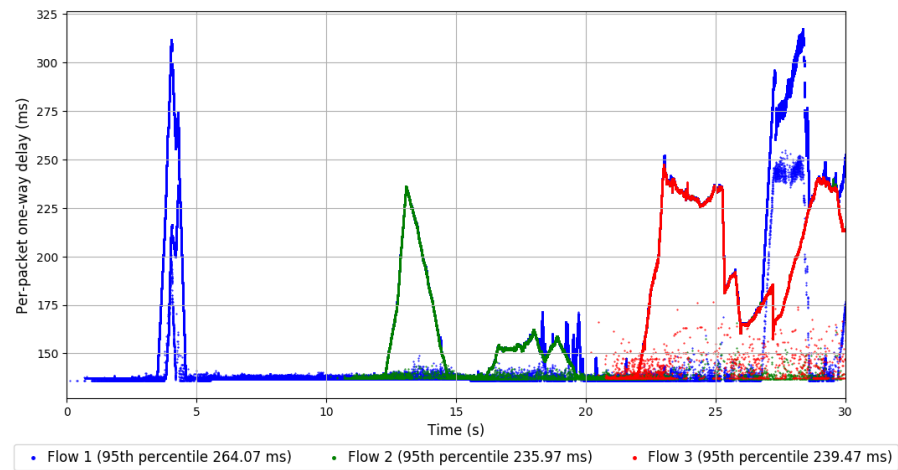
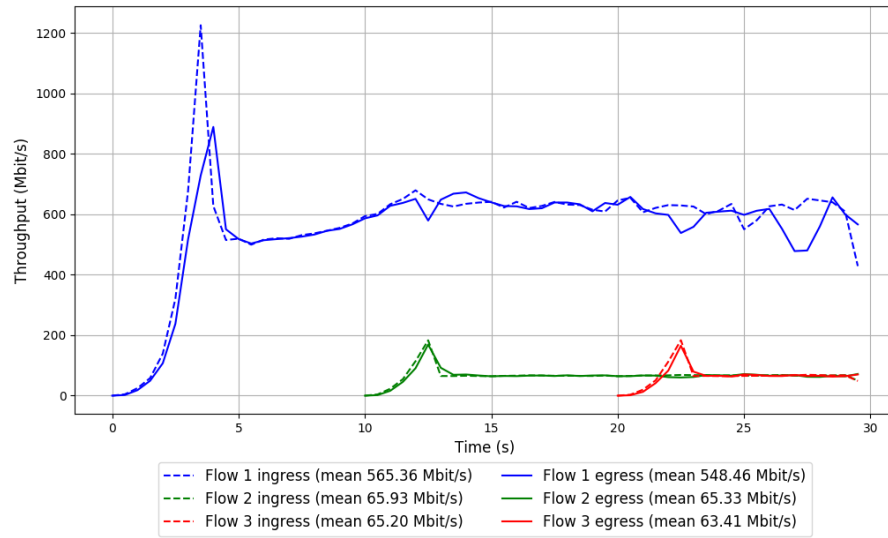
-- Flow 3:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 239.472 ms

Loss rate: 2.92%

Run 10: Report of PCC — Data Link

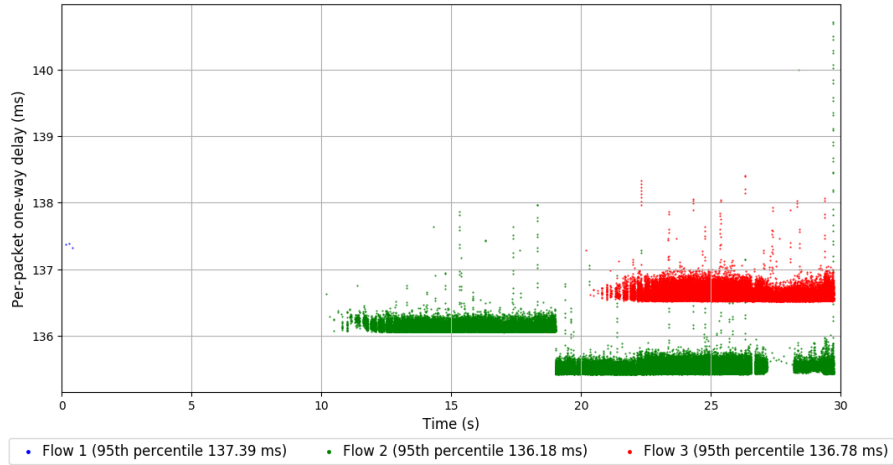
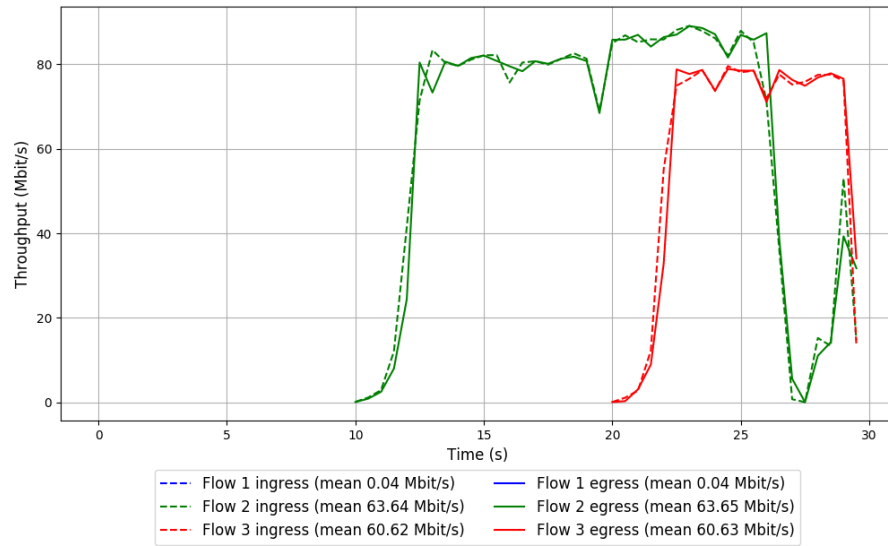


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-21 07:28:19
End at: 2017-12-21 07:28:49

# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.61 Mbit/s
95th percentile per-packet one-way delay: 136.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 137.394 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.65 Mbit/s
95th percentile per-packet one-way delay: 136.179 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 136.782 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-21 07:43:17

End at: 2017-12-21 07:43:47

Below is generated by plot.py at 2017-12-21 11:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.38 Mbit/s

95th percentile per-packet one-way delay: 137.220 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.64 Mbit/s

95th percentile per-packet one-way delay: 137.070 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 137.237 ms

Loss rate: 0.00%

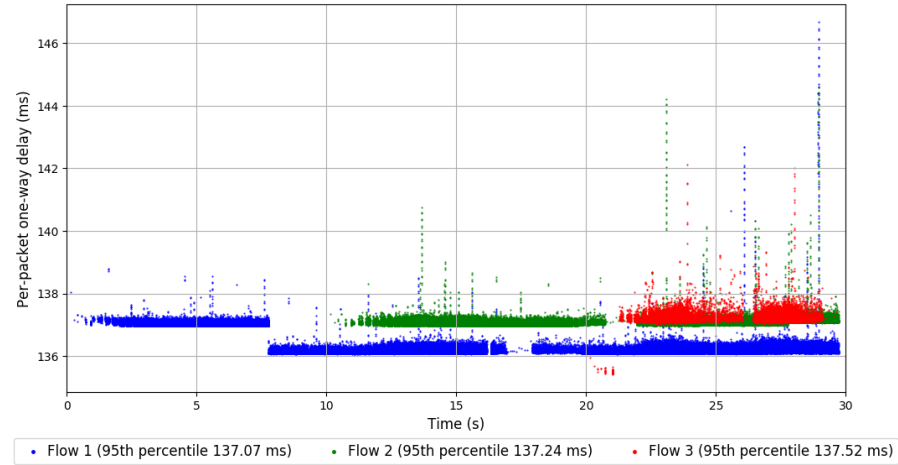
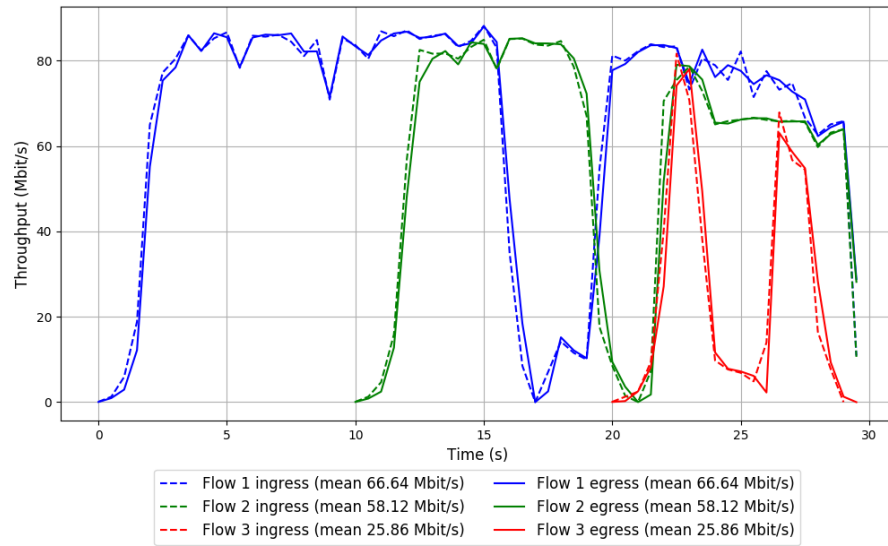
-- Flow 3:

Average throughput: 25.86 Mbit/s

95th percentile per-packet one-way delay: 137.521 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-21 07:59:15

End at: 2017-12-21 07:59:45

Below is generated by plot.py at 2017-12-21 11:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.14 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 136.733 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 136.545 ms

Loss rate: 0.00%

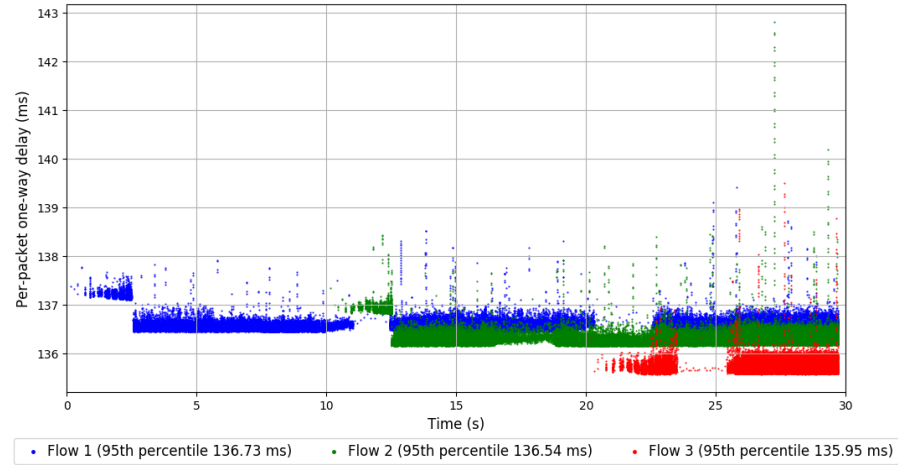
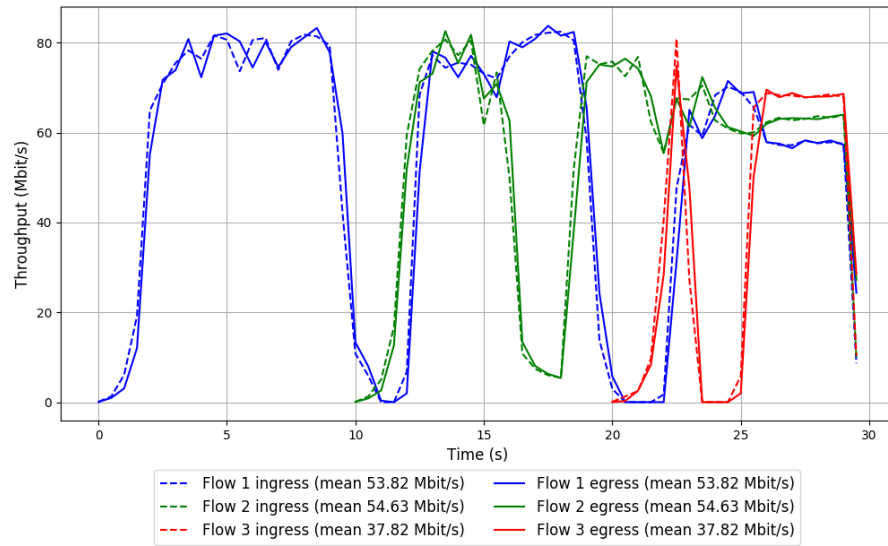
-- Flow 3:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 135.950 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-21 08:15:34

End at: 2017-12-21 08:16:04

Below is generated by plot.py at 2017-12-21 11:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 136.990 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 136.574 ms

Loss rate: 0.00%

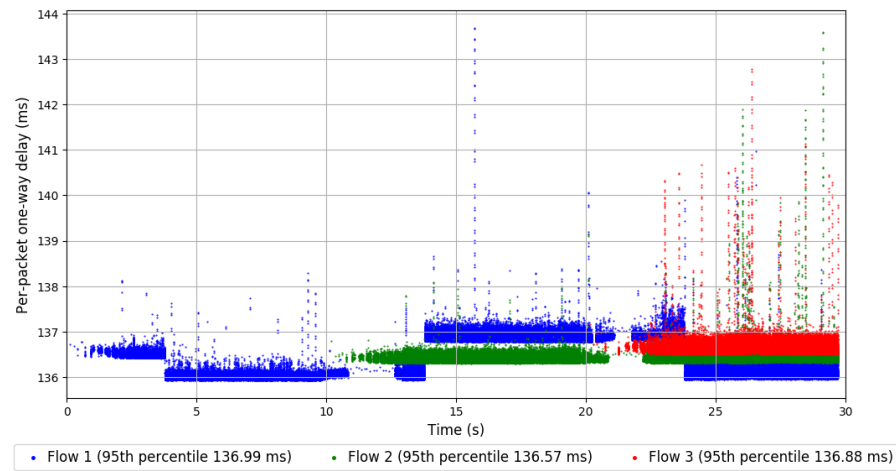
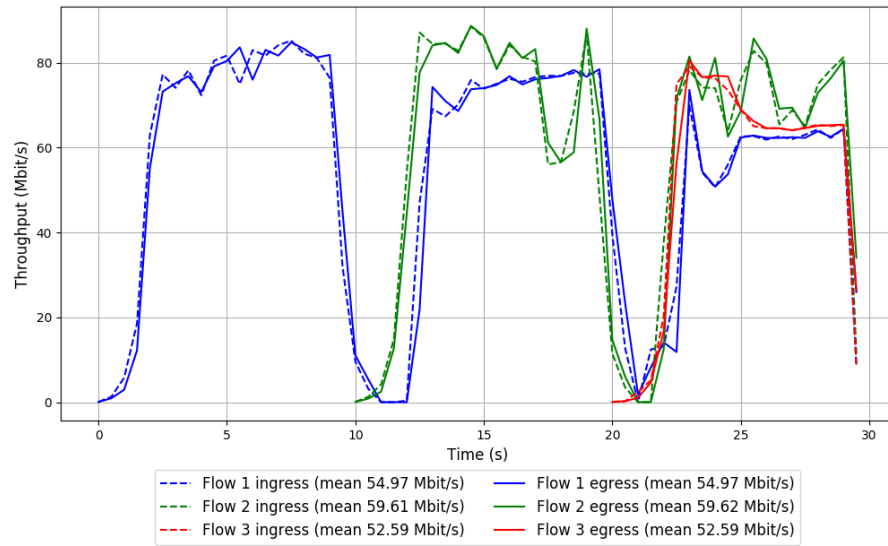
-- Flow 3:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 136.879 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-21 08:31:06

End at: 2017-12-21 08:31:36

Below is generated by plot.py at 2017-12-21 11:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.46 Mbit/s

95th percentile per-packet one-way delay: 165.679 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.27 Mbit/s

95th percentile per-packet one-way delay: 165.756 ms

Loss rate: 0.19%

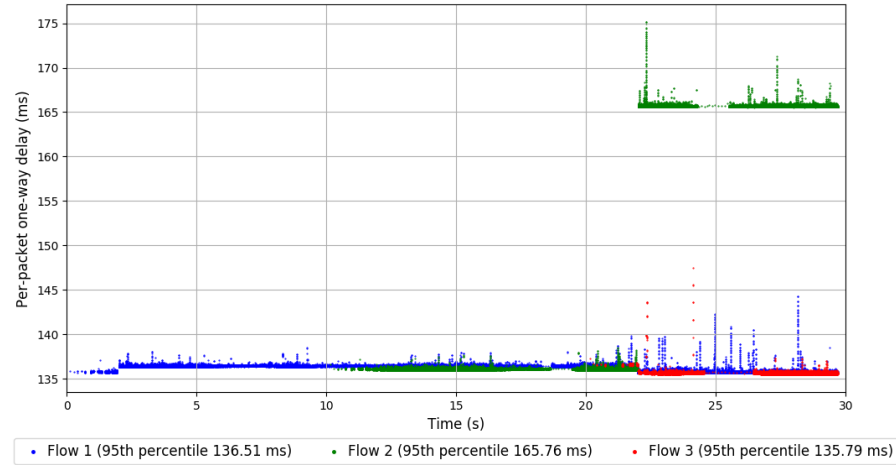
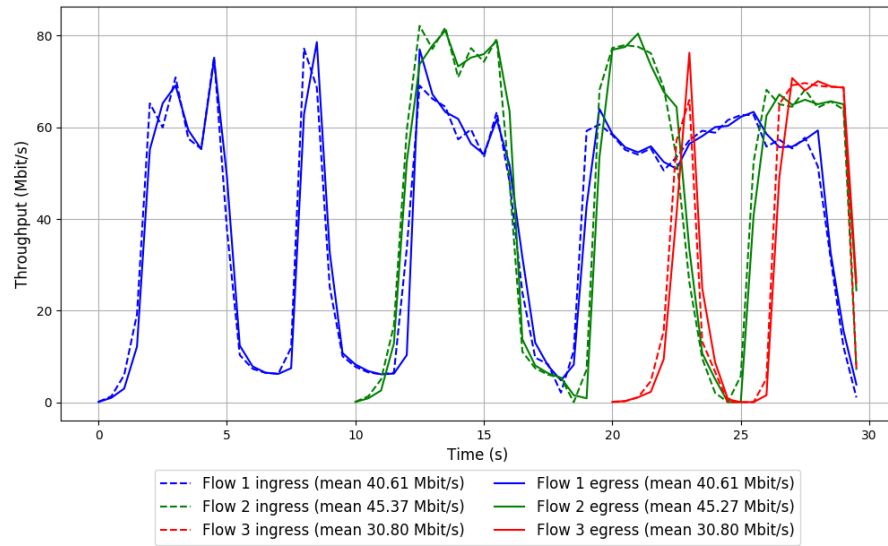
-- Flow 3:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 135.790 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-21 08:46:35

End at: 2017-12-21 08:47:05

Below is generated by plot.py at 2017-12-21 11:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.45 Mbit/s

95th percentile per-packet one-way delay: 163.637 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 62.65 Mbit/s

95th percentile per-packet one-way delay: 163.701 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 57.65 Mbit/s

95th percentile per-packet one-way delay: 137.136 ms

Loss rate: 0.00%

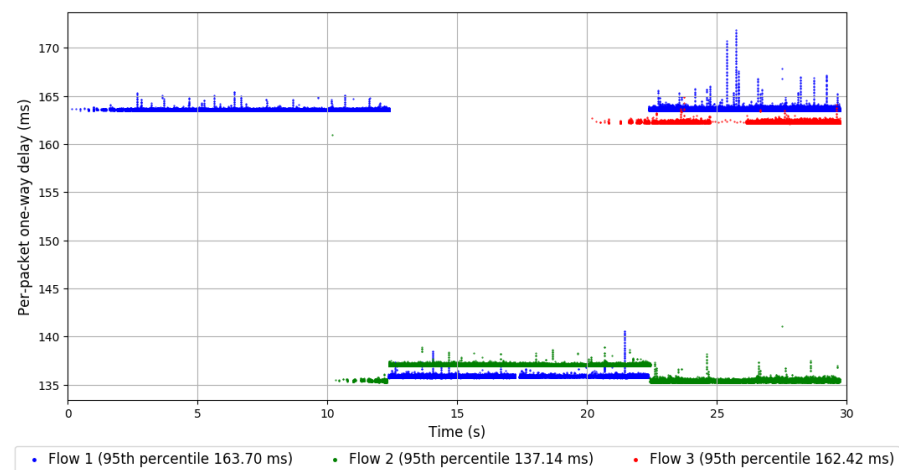
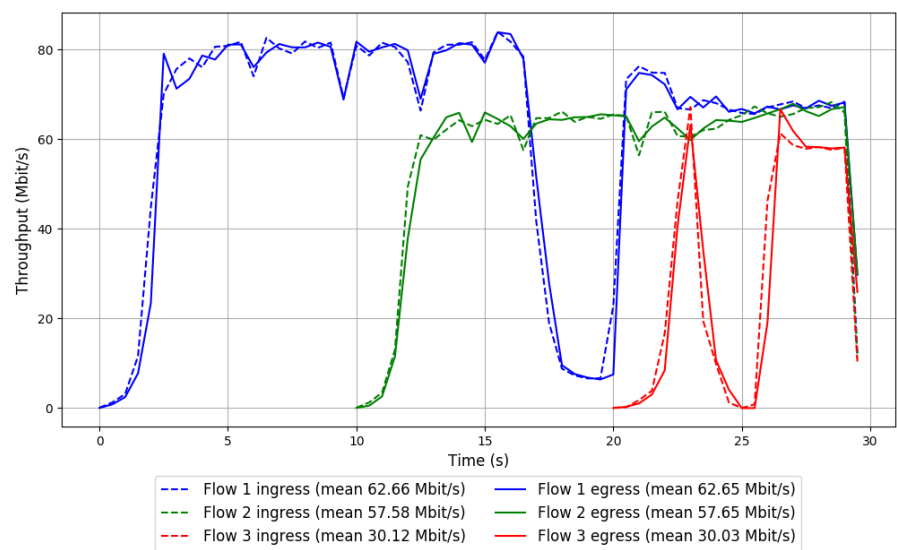
-- Flow 3:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 162.422 ms

Loss rate: 0.51%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-21 09:02:18

End at: 2017-12-21 09:02:48

Below is generated by plot.py at 2017-12-21 11:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.55 Mbit/s

95th percentile per-packet one-way delay: 161.554 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 137.144 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 137.159 ms

Loss rate: 0.00%

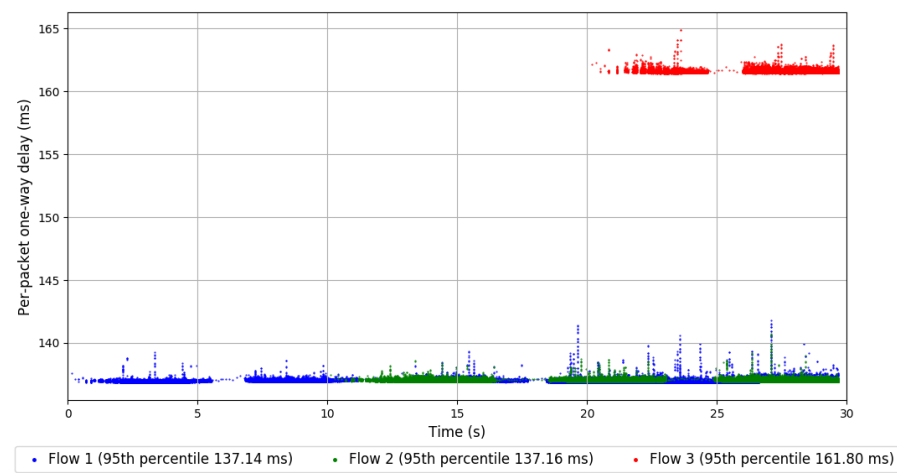
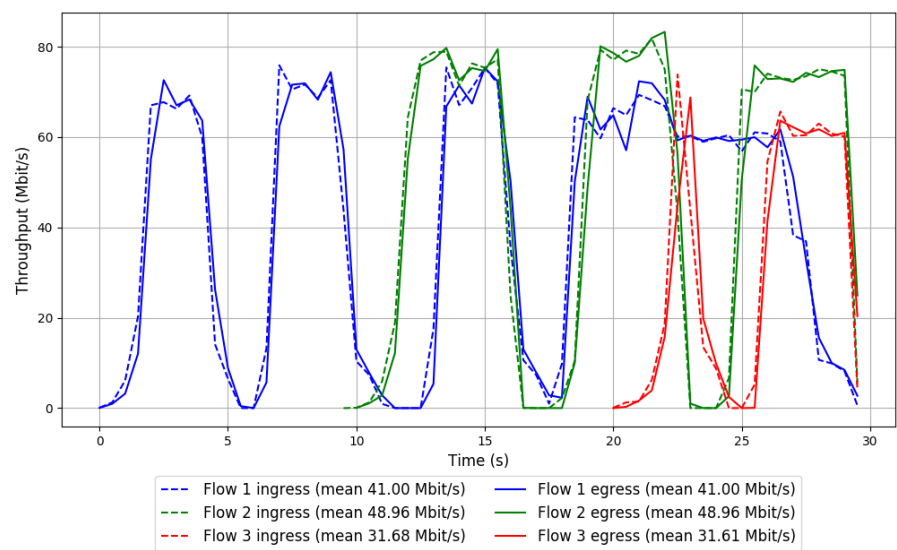
-- Flow 3:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 161.802 ms

Loss rate: 0.47%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-21 09:18:33

End at: 2017-12-21 09:19:03

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 137.174 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.61 Mbit/s

95th percentile per-packet one-way delay: 136.951 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 137.274 ms

Loss rate: 0.00%

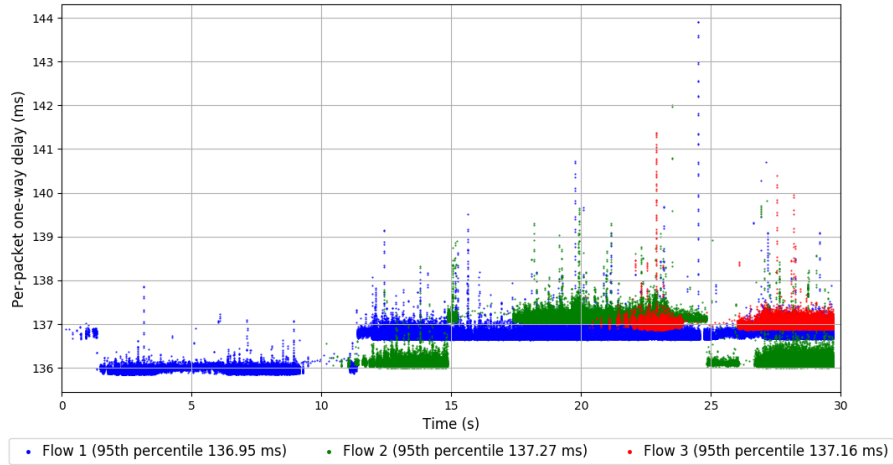
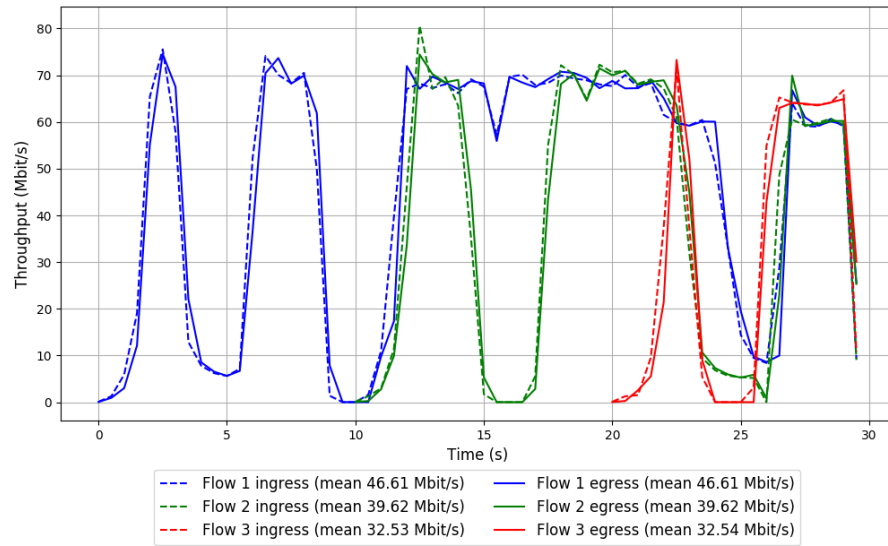
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 137.157 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-21 09:34:49

End at: 2017-12-21 09:35:19

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.11 Mbit/s

95th percentile per-packet one-way delay: 136.983 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.84 Mbit/s

95th percentile per-packet one-way delay: 137.025 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.40 Mbit/s

95th percentile per-packet one-way delay: 136.610 ms

Loss rate: 0.00%

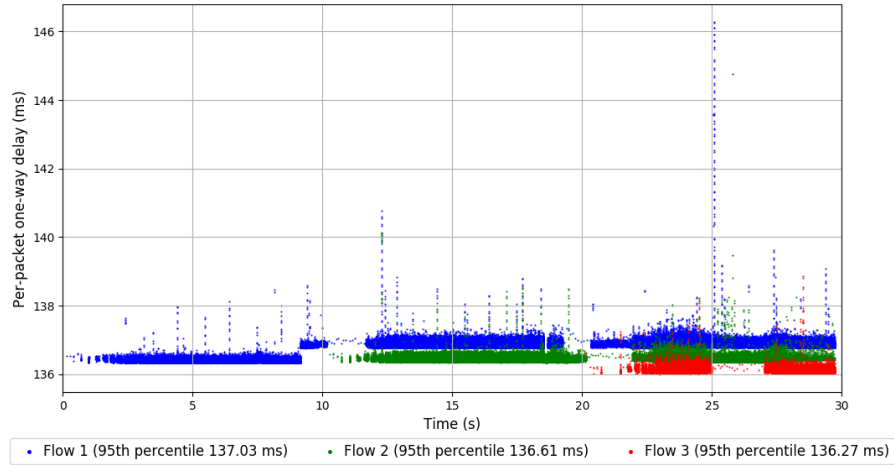
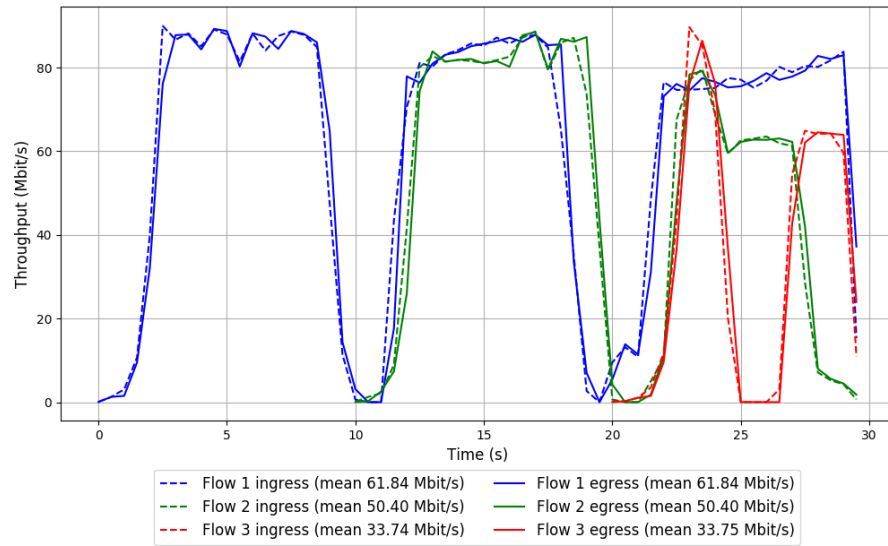
-- Flow 3:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

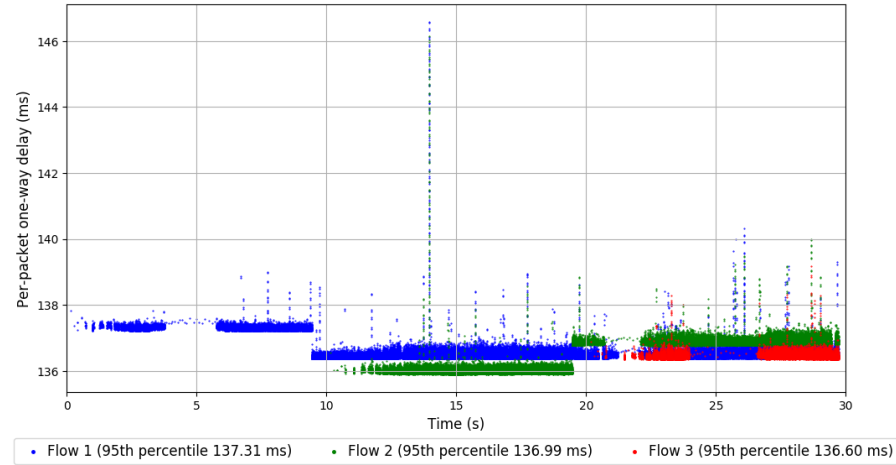
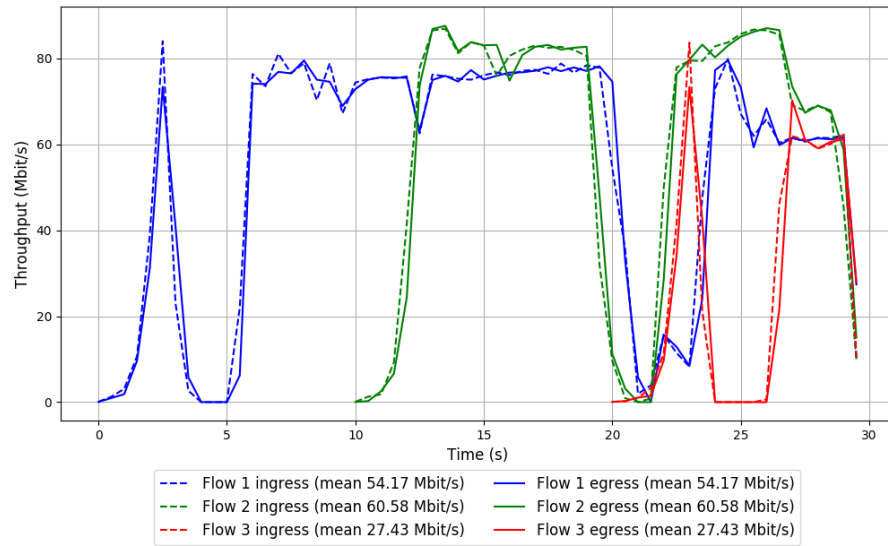


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-21 09:51:08
End at: 2017-12-21 09:51:38

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.10 Mbit/s
95th percentile per-packet one-way delay: 137.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.17 Mbit/s
95th percentile per-packet one-way delay: 137.305 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.58 Mbit/s
95th percentile per-packet one-way delay: 136.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.43 Mbit/s
95th percentile per-packet one-way delay: 136.605 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

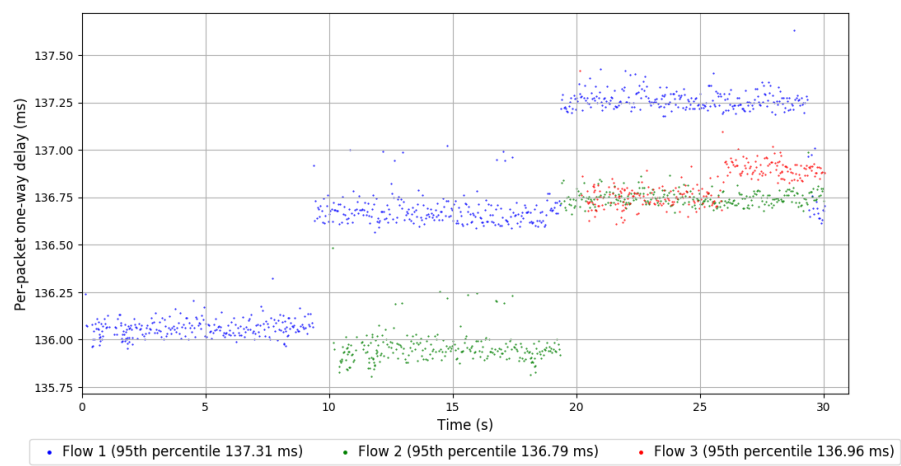
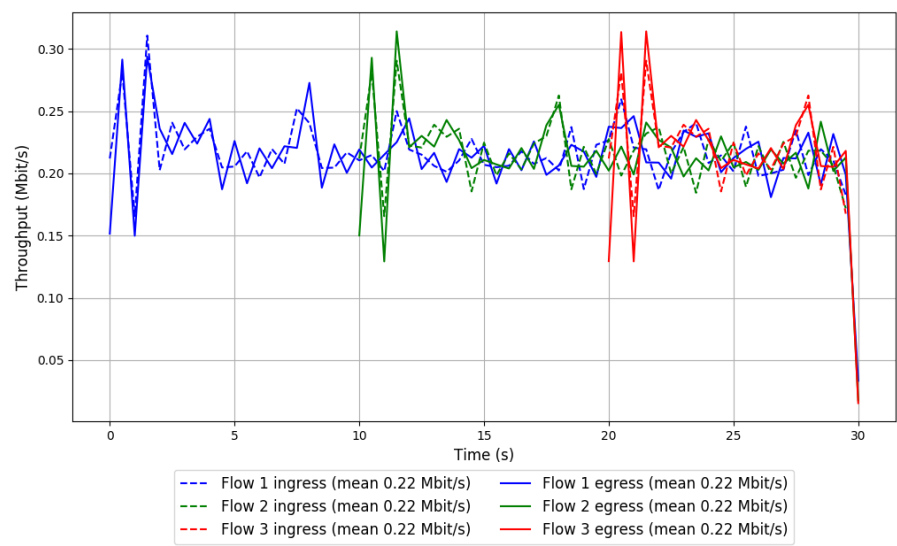


```
Run 1: Statistics of SCReAM

Start at: 2017-12-21 07:41:29
End at: 2017-12-21 07:41:59

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.305 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.955 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

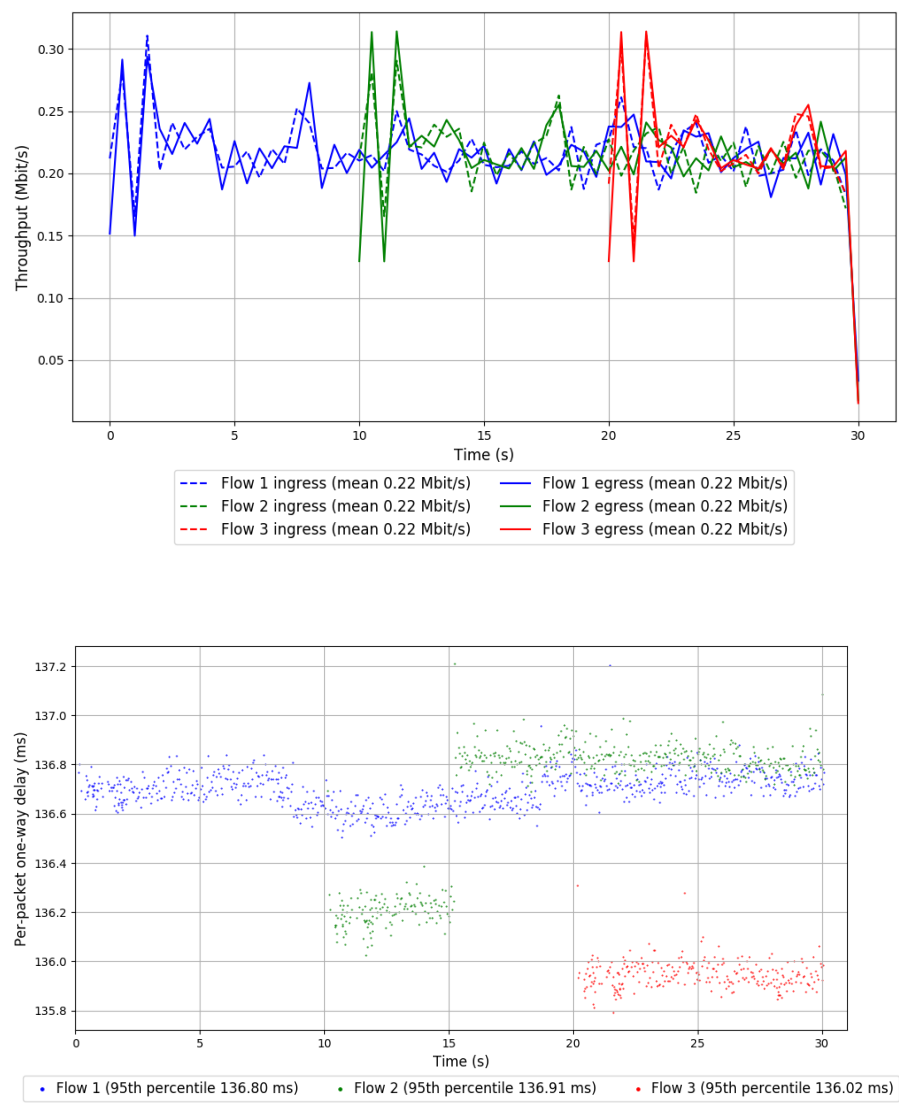


```
Run 2: Statistics of SReAM

Start at: 2017-12-21 07:57:19
End at: 2017-12-21 07:57:49

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.022 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

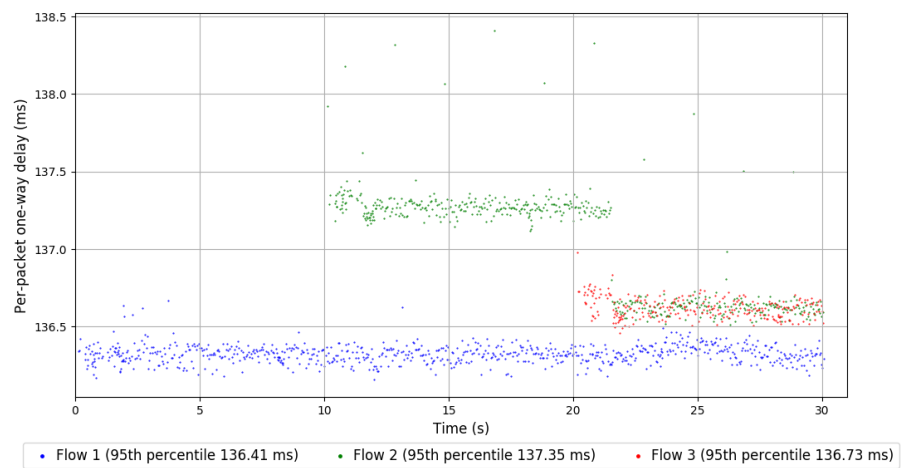
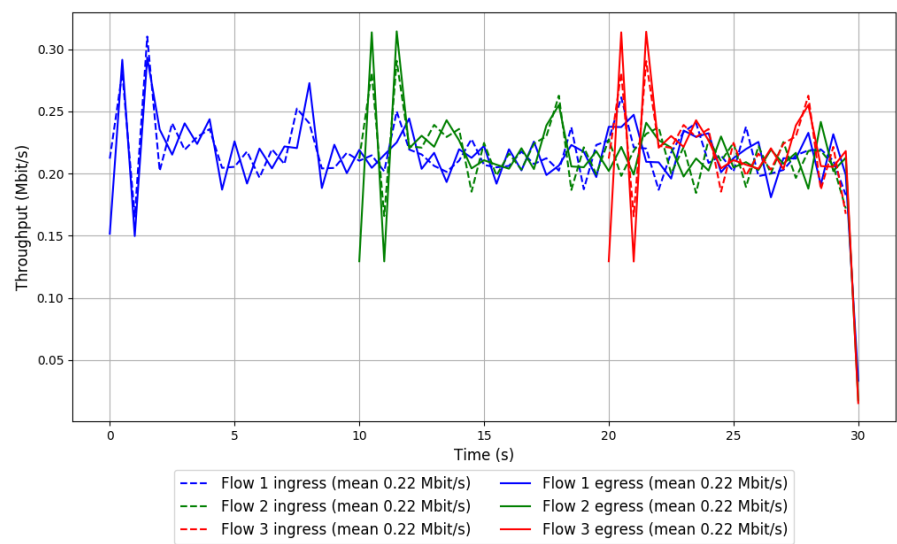


```
Run 3: Statistics of SCReAM

Start at: 2017-12-21 08:13:37
End at: 2017-12-21 08:14:07

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.353 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.729 ms
Loss rate: 0.00%
```


Run 3: Report of SCRaM — Data Link

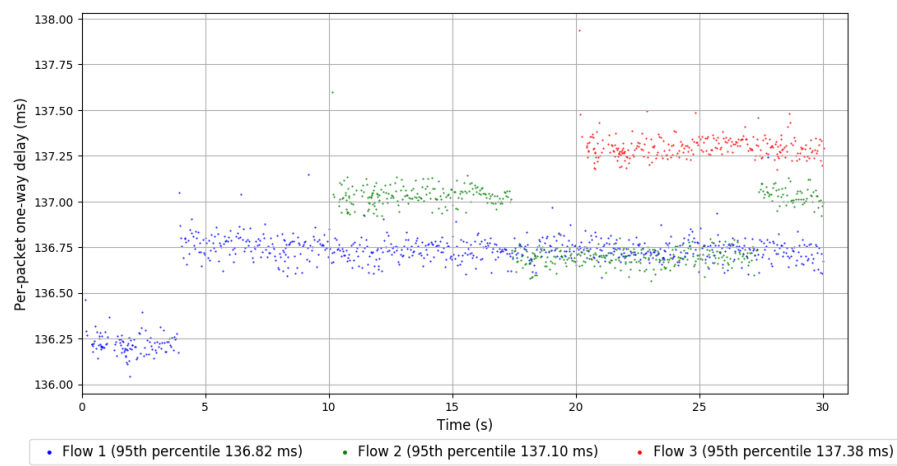
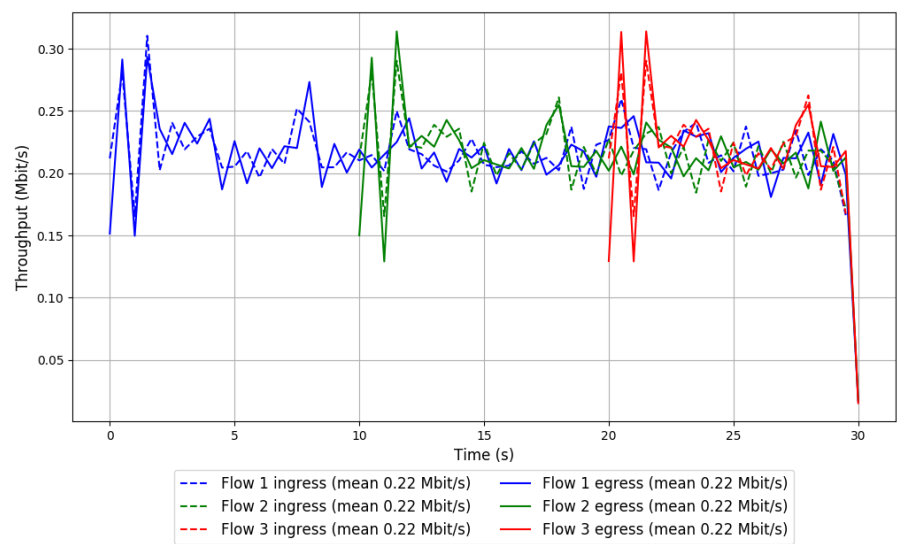


```
Run 4: Statistics of SCReAM

Start at: 2017-12-21 08:29:11
End at: 2017-12-21 08:29:41

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.323 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.822 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.380 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-21 08:44:39

End at: 2017-12-21 08:45:09

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 164.426 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.086 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 163.866 ms

Loss rate: 0.00%

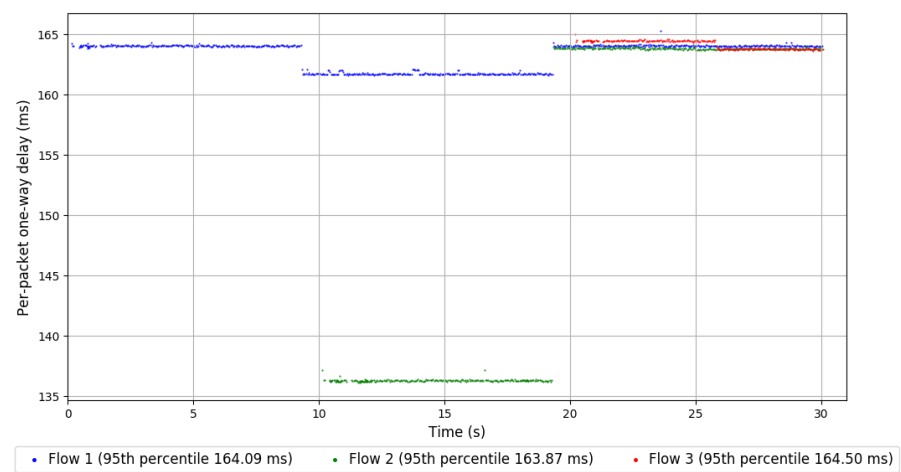
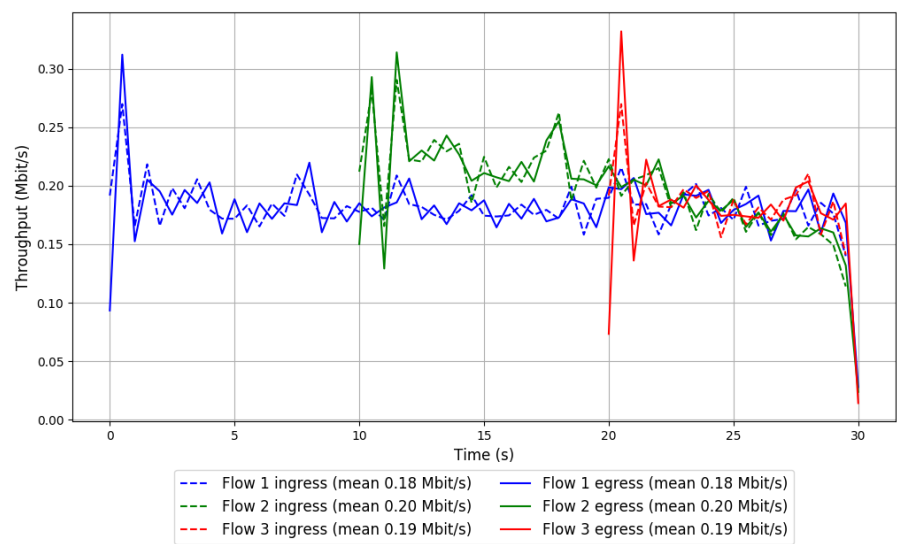
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 164.497 ms

Loss rate: 0.35%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-21 09:00:37

End at: 2017-12-21 09:01:07

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 162.477 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 162.498 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.090 ms

Loss rate: 0.00%

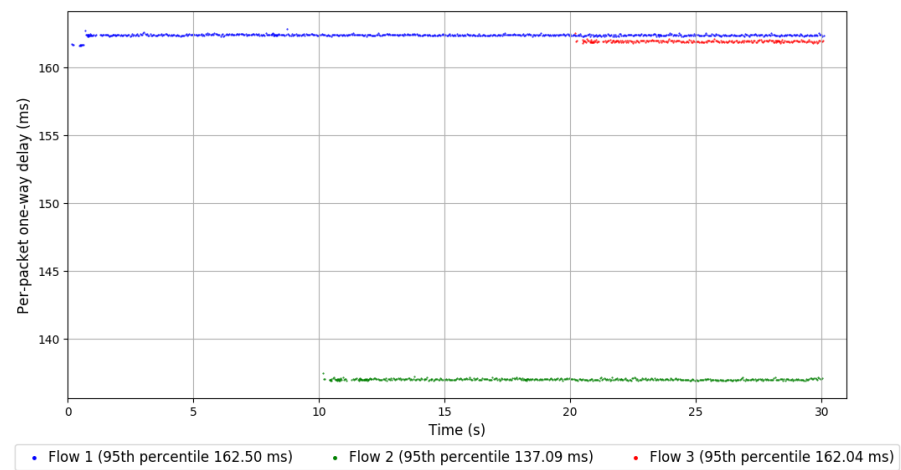
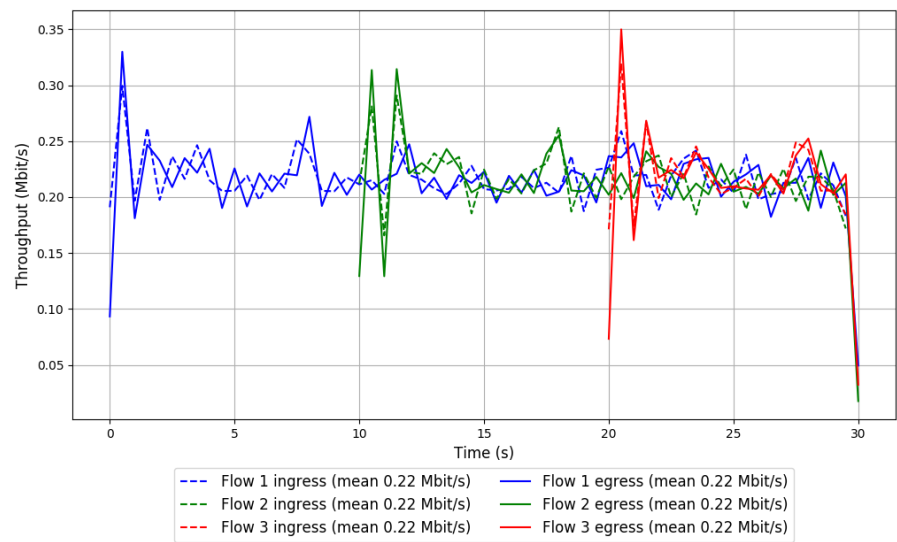
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 162.045 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

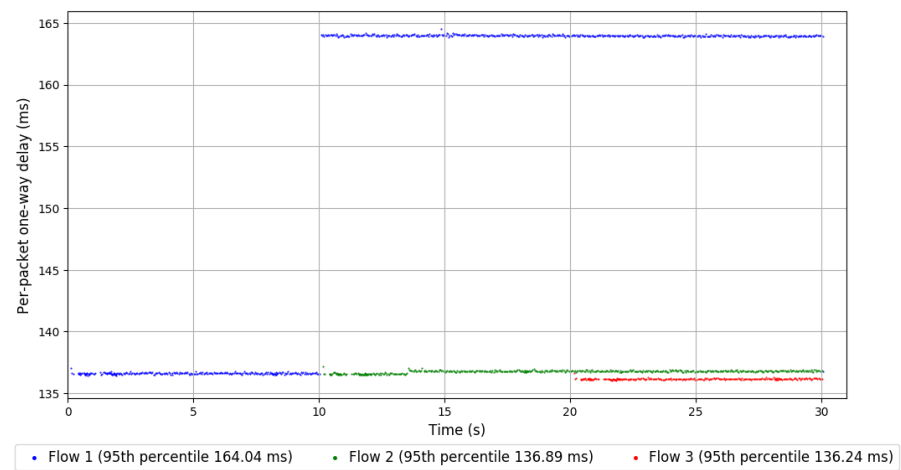
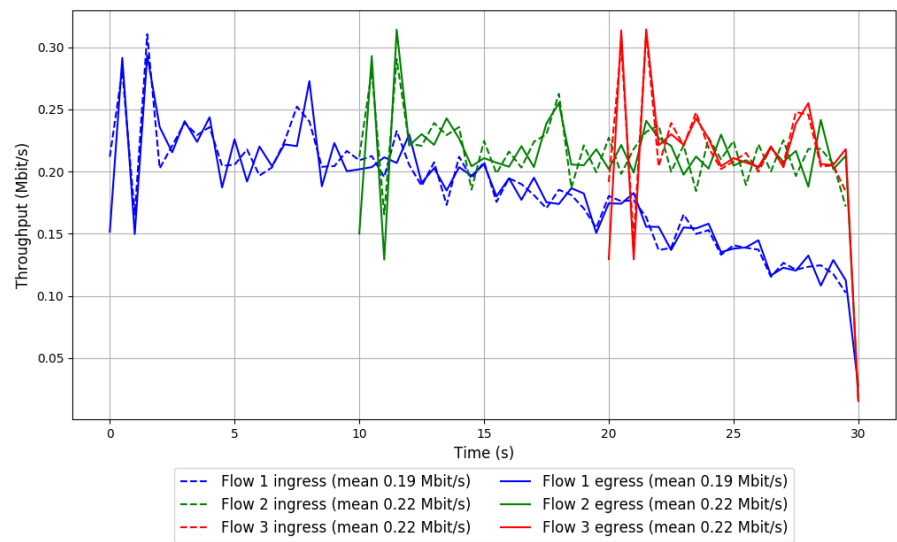


```
Run 7: Statistics of SCReAM

Start at: 2017-12-21 09:16:25
End at: 2017-12-21 09:16:55

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 164.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.044 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.891 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.235 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-21 09:32:51

End at: 2017-12-21 09:33:21

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.376 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.419 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.231 ms

Loss rate: 0.00%

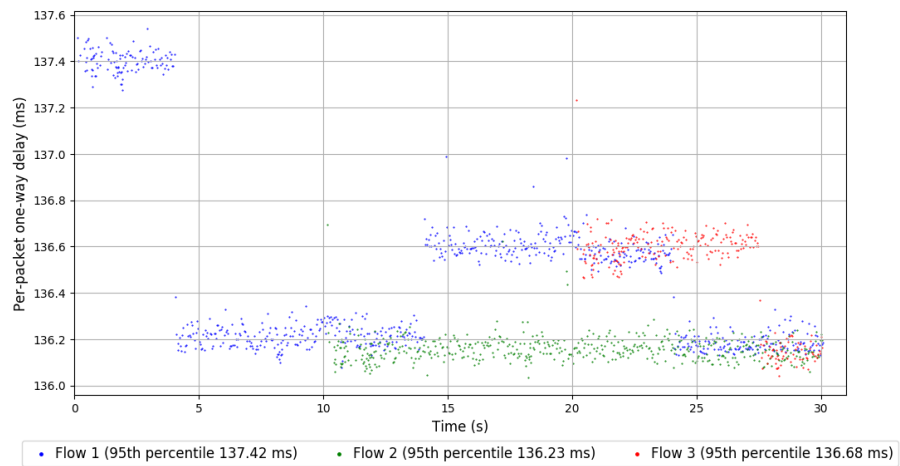
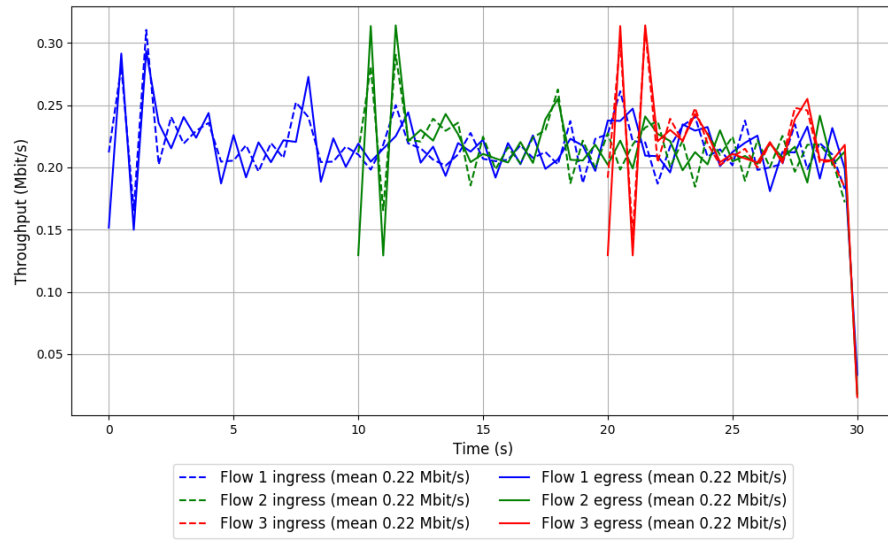
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.681 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-21 09:49:03

End at: 2017-12-21 09:49:33

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.635 ms

Loss rate: 0.00%

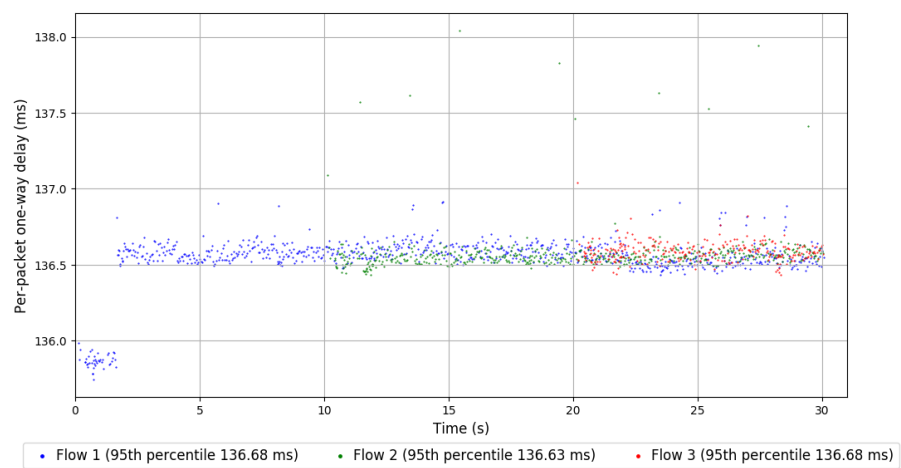
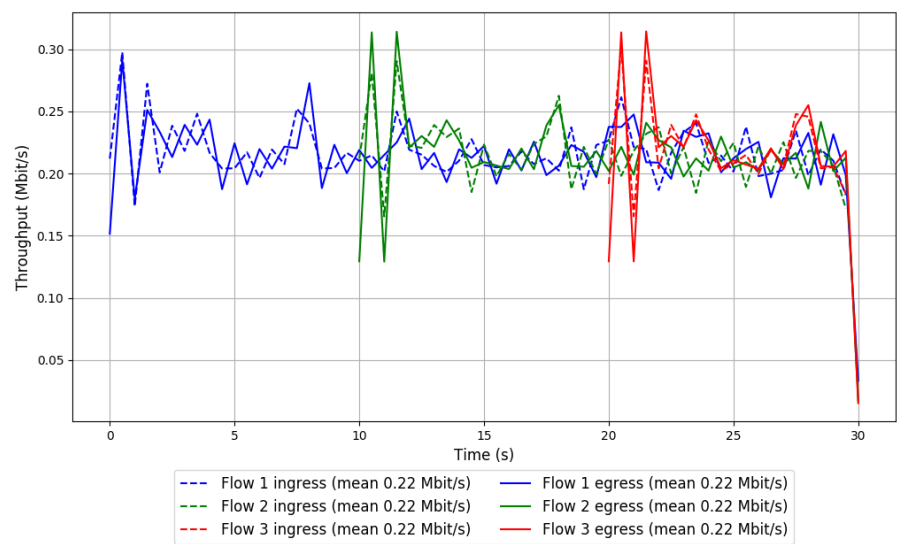
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

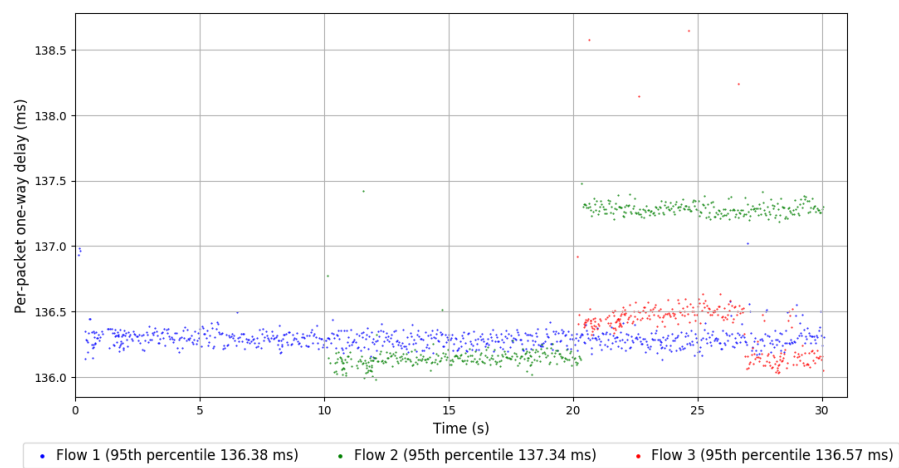
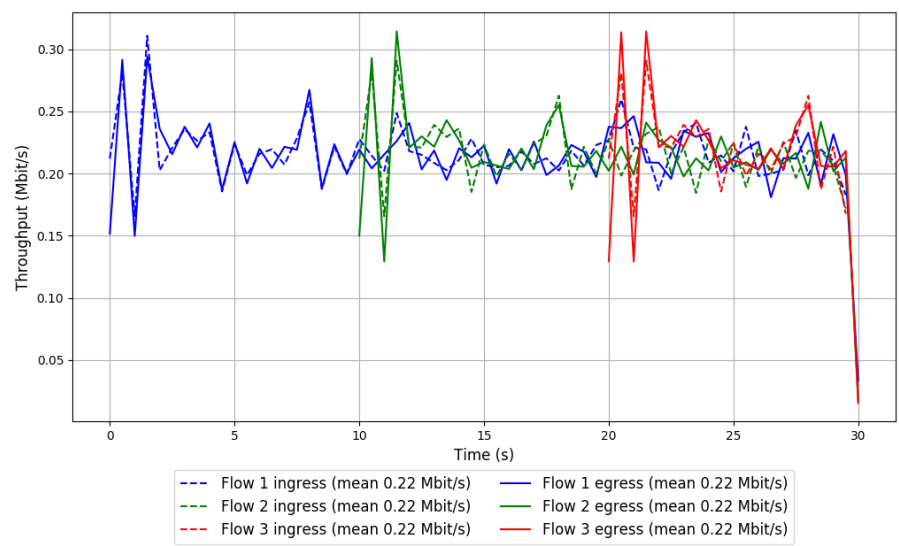


```
Run 10: Statistics of SReAM

Start at: 2017-12-21 10:05:08
End at: 2017-12-21 10:05:38

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.575 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

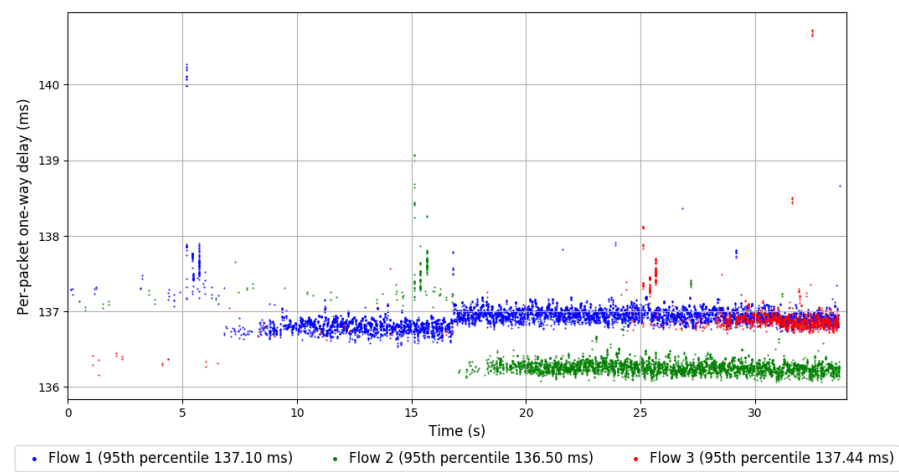
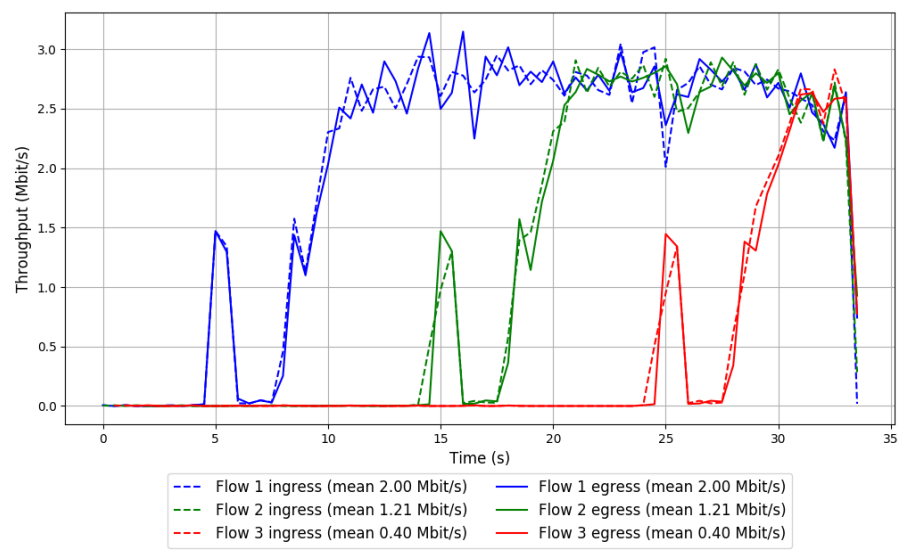


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-21 07:38:25
End at: 2017-12-21 07:38:55

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 137.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 137.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.496 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.443 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-21 07:54:18

End at: 2017-12-21 07:54:48

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 137.196 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.872 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 137.258 ms

Loss rate: 0.00%

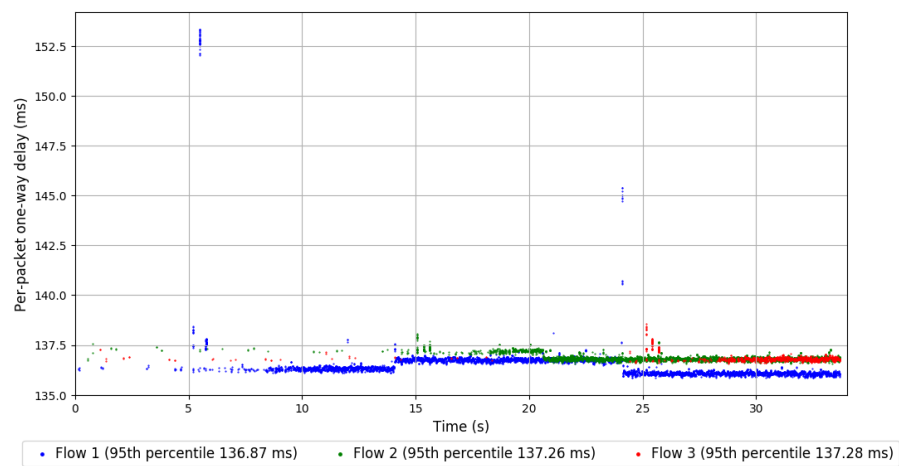
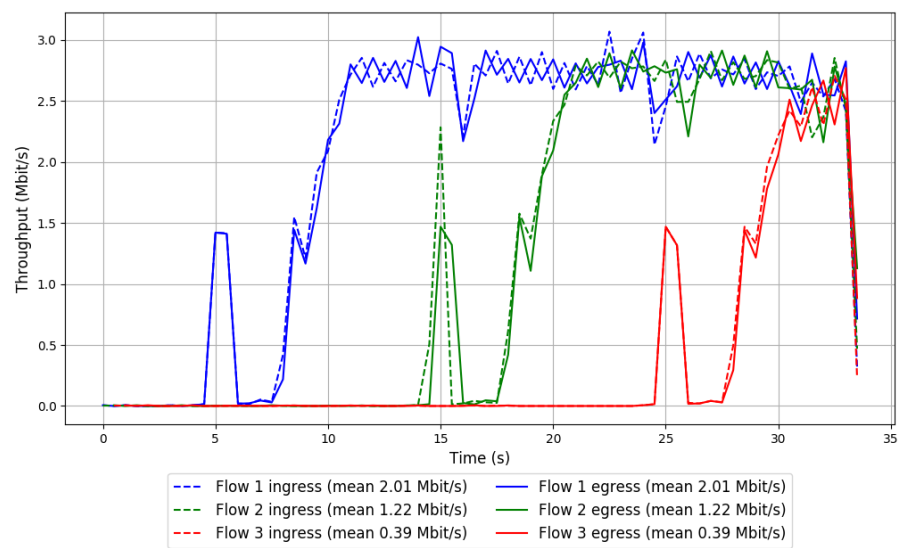
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.278 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-21 08:10:30

End at: 2017-12-21 08:11:00

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 137.303 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 137.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 137.026 ms

Loss rate: 0.00%

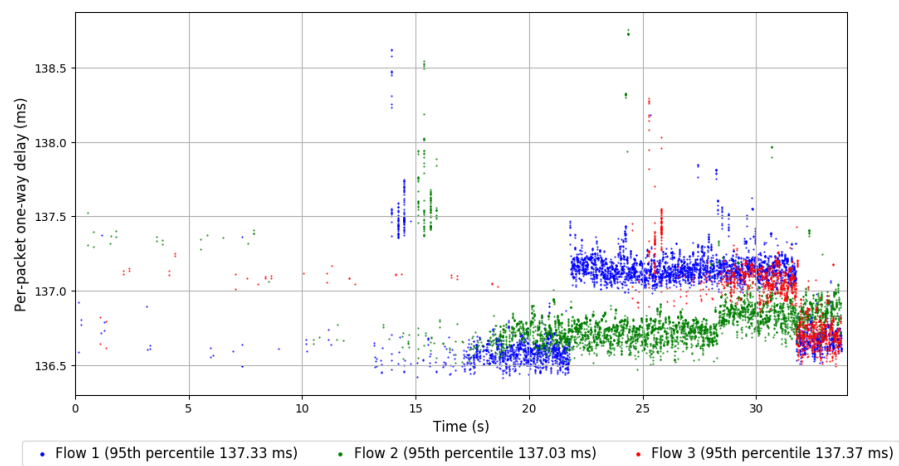
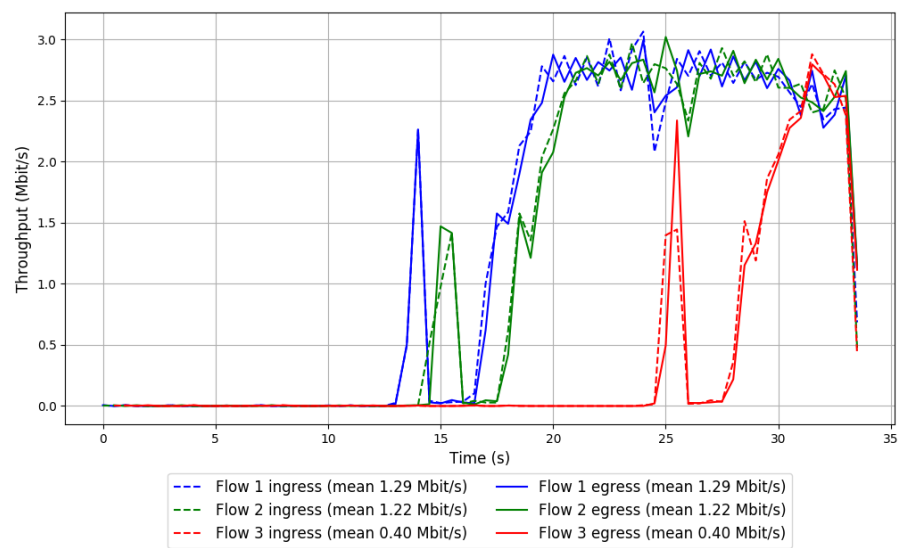
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.370 ms

Loss rate: 0.07%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-21 08:26:19

End at: 2017-12-21 08:26:49

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 136.920 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 136.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.831 ms

Loss rate: 0.00%

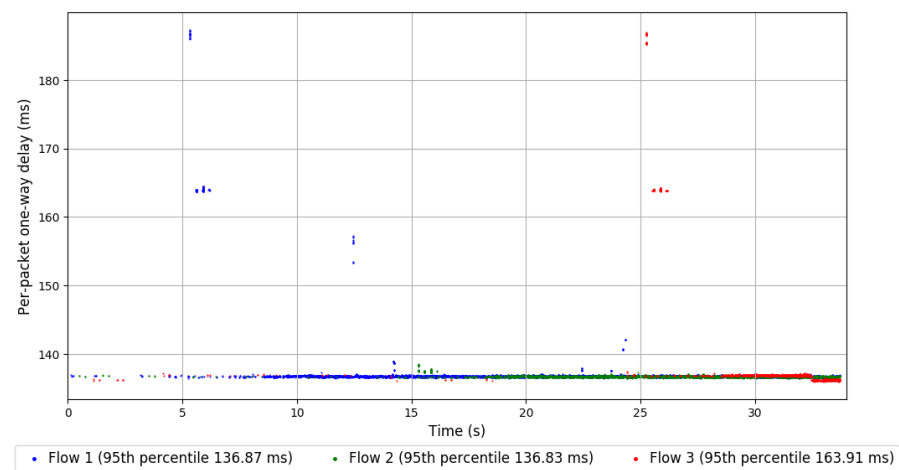
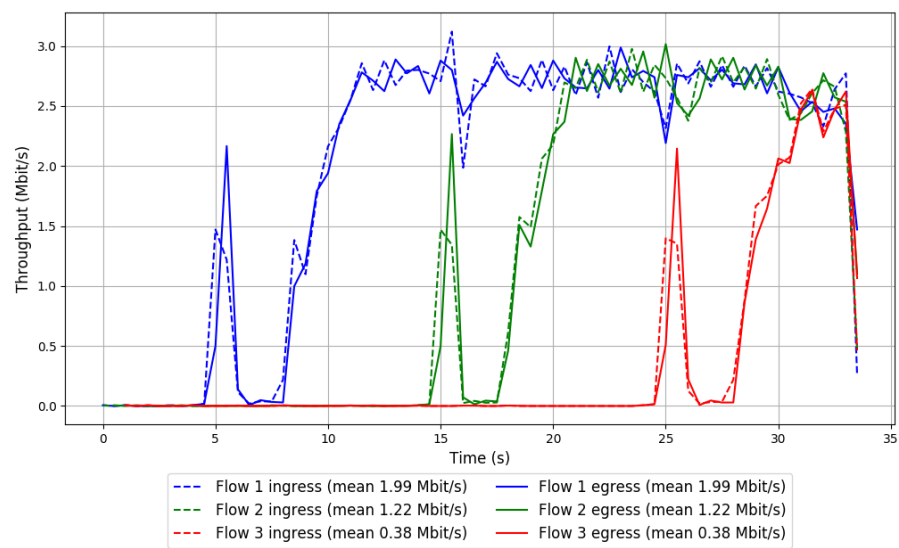
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 163.905 ms

Loss rate: 0.01%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-21 08:41:50

End at: 2017-12-21 08:42:20

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.210 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 137.188 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 0.00%

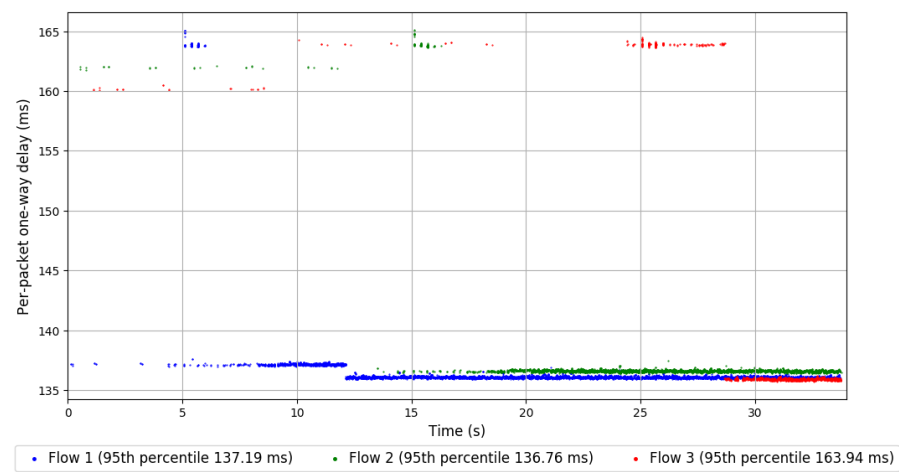
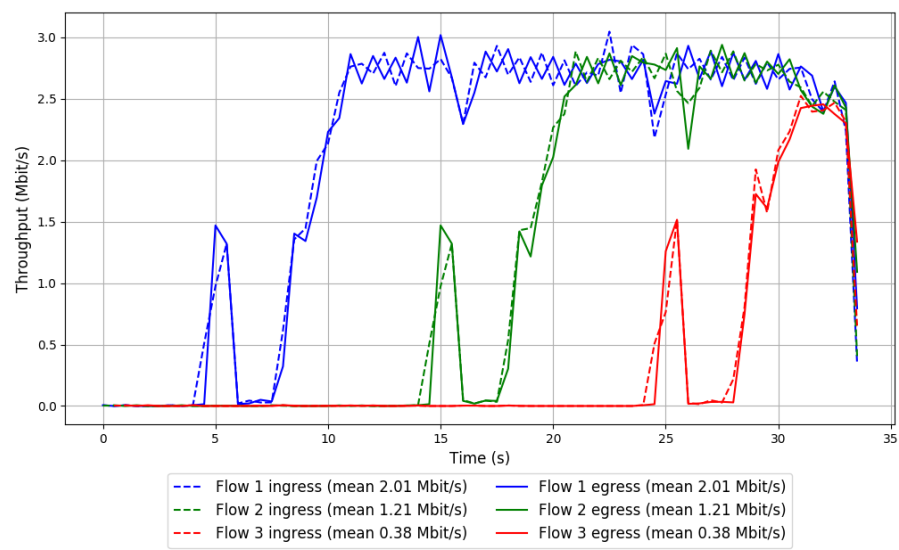
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 163.939 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-21 08:57:32

End at: 2017-12-21 08:58:02

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.881 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 136.789 ms

Loss rate: 0.00%

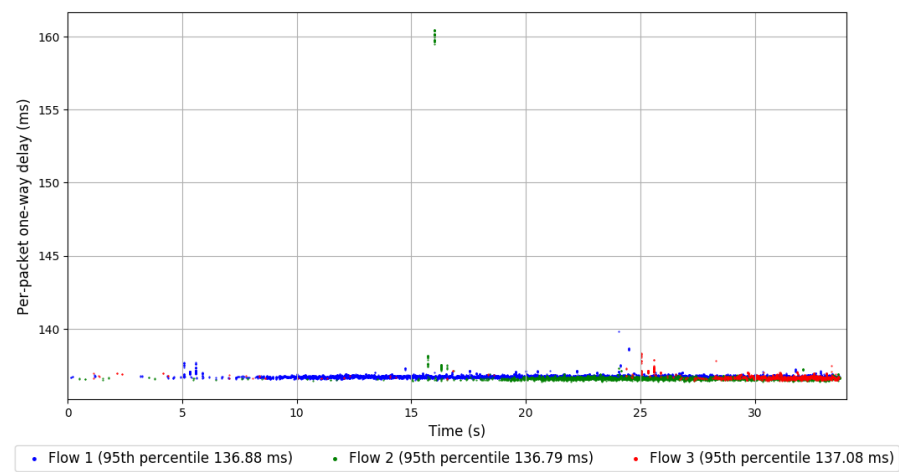
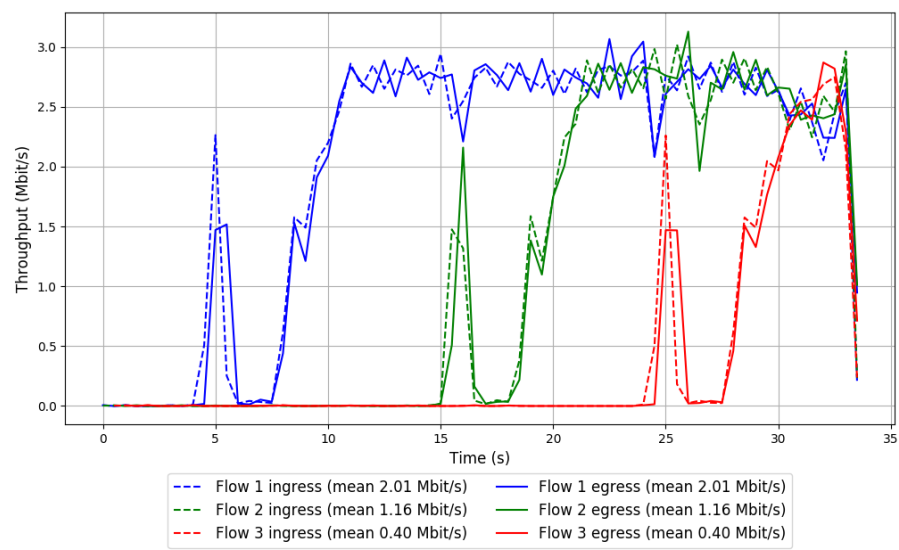
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-21 09:13:19

End at: 2017-12-21 09:13:49

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 137.296 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 137.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 137.014 ms

Loss rate: 0.00%

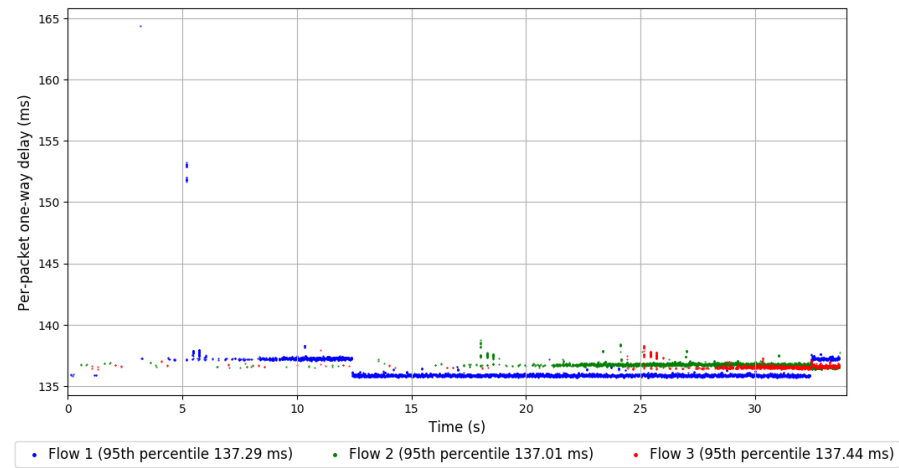
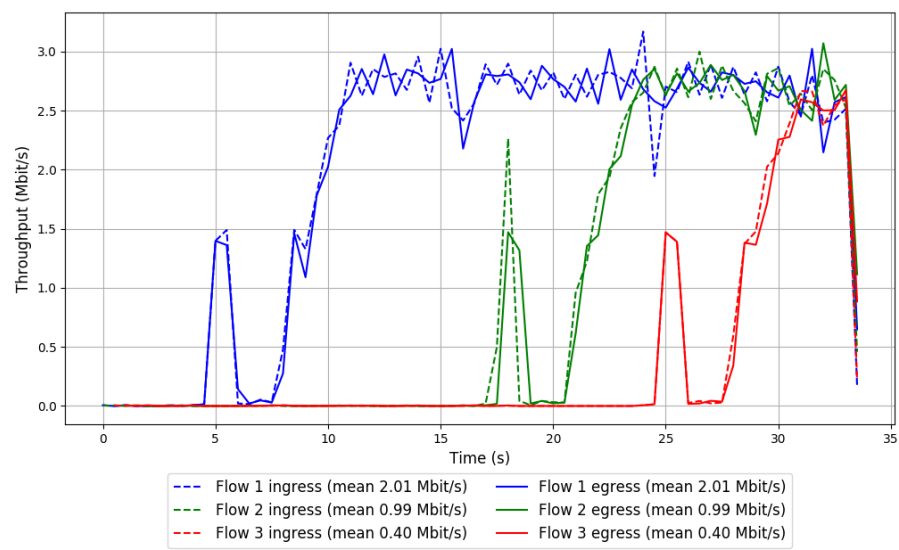
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.439 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-21 09:29:45

End at: 2017-12-21 09:30:15

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 136.665 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.650 ms

Loss rate: 0.00%

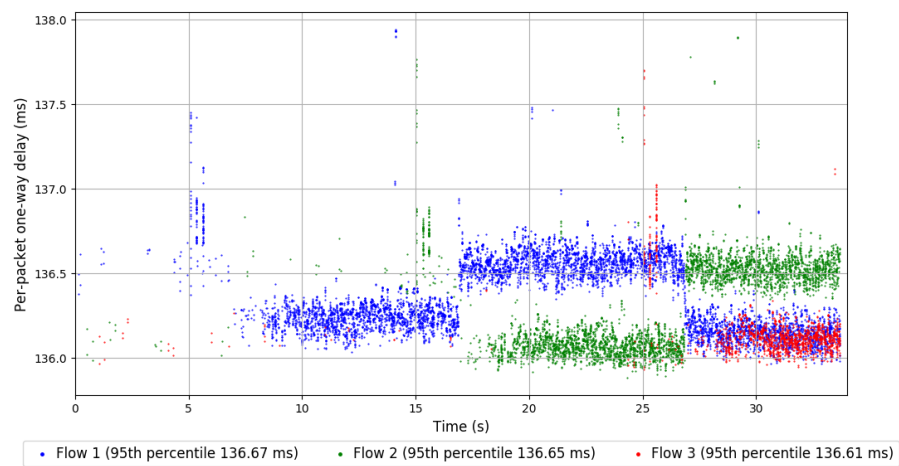
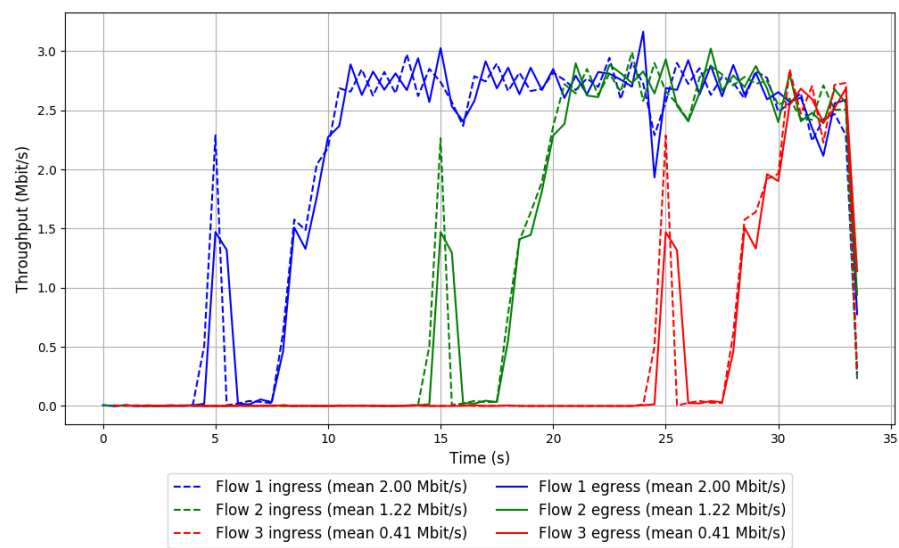
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.609 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

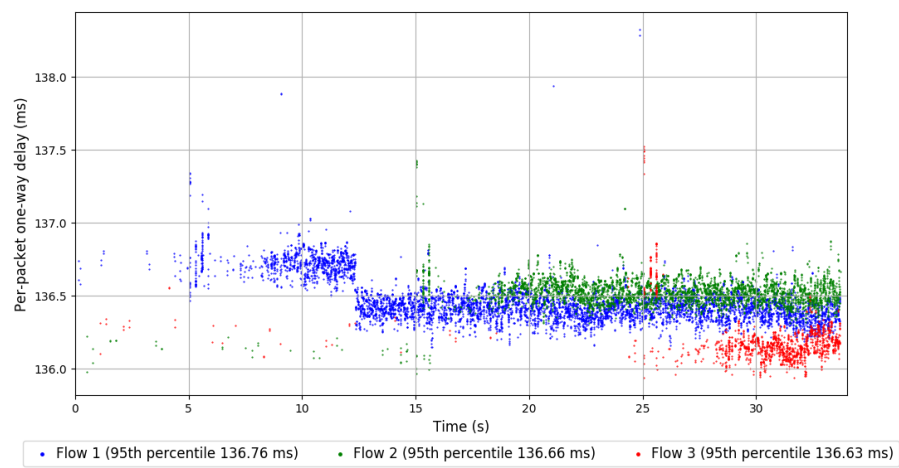
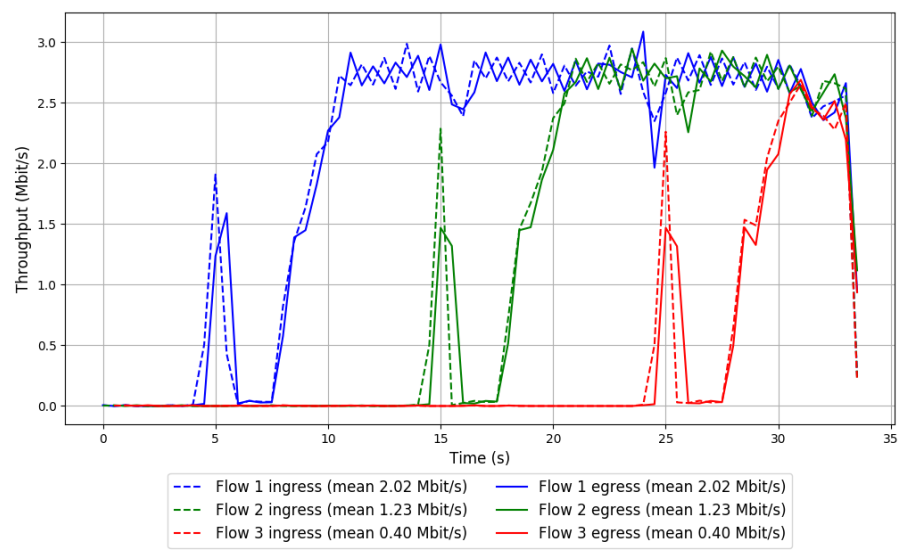


```
Run 9: Statistics of WebRTC media

Start at: 2017-12-21 09:45:56
End at: 2017-12-21 09:46:26

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 136.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.759 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.656 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.630 ms
Loss rate: 0.00%
```


Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-21 10:02:06

End at: 2017-12-21 10:02:36

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 137.138 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.747 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 136.968 ms

Loss rate: 0.00%

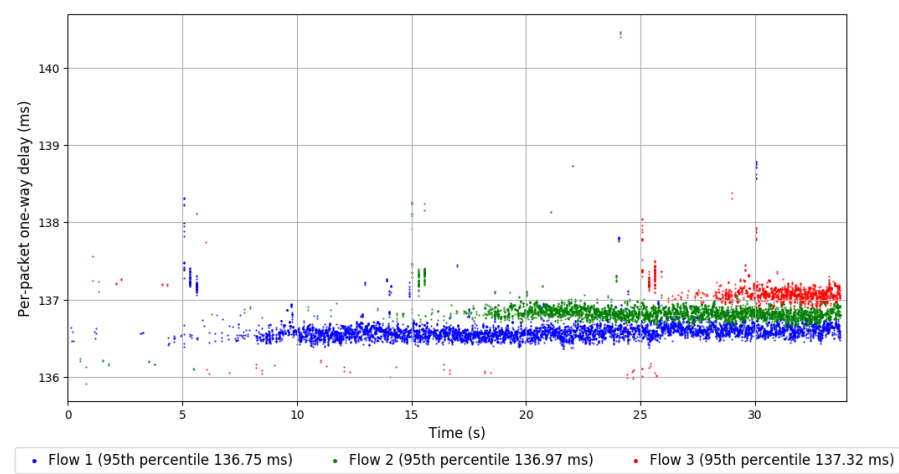
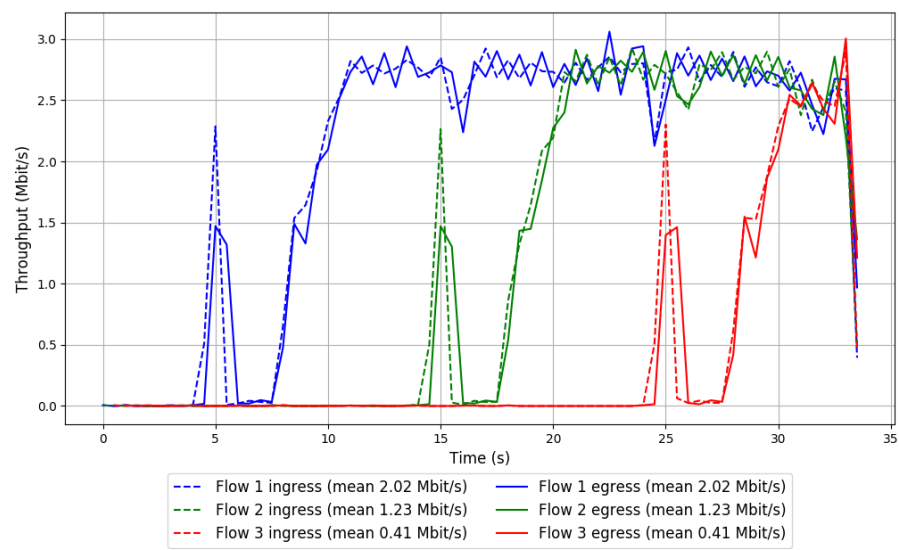
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.319 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

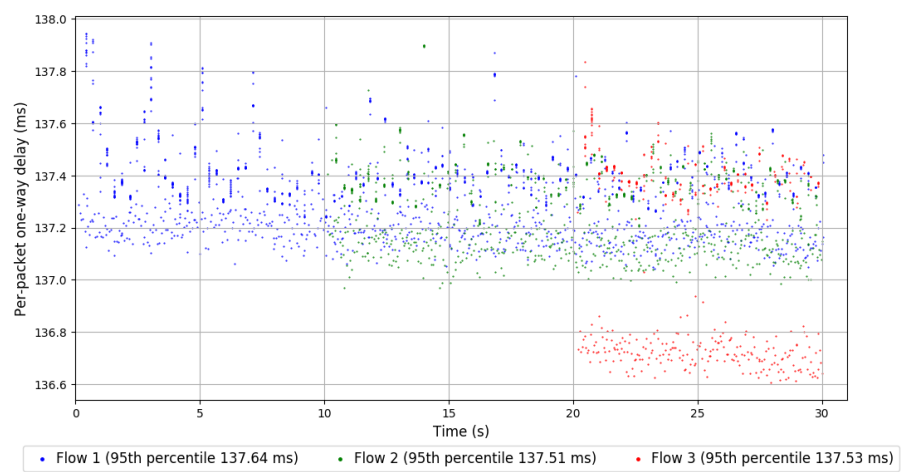
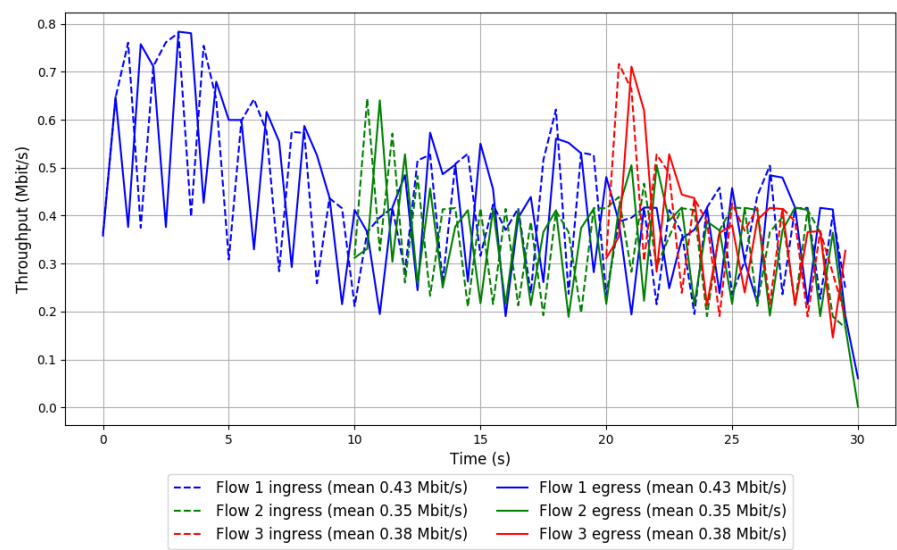


```
Run 1: Statistics of Sprout

Start at: 2017-12-21 07:31:00
End at: 2017-12-21 07:31:30

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 137.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.641 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 137.532 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-21 07:45:59

End at: 2017-12-21 07:46:29

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 137.584 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 137.671 ms

Loss rate: 0.00%

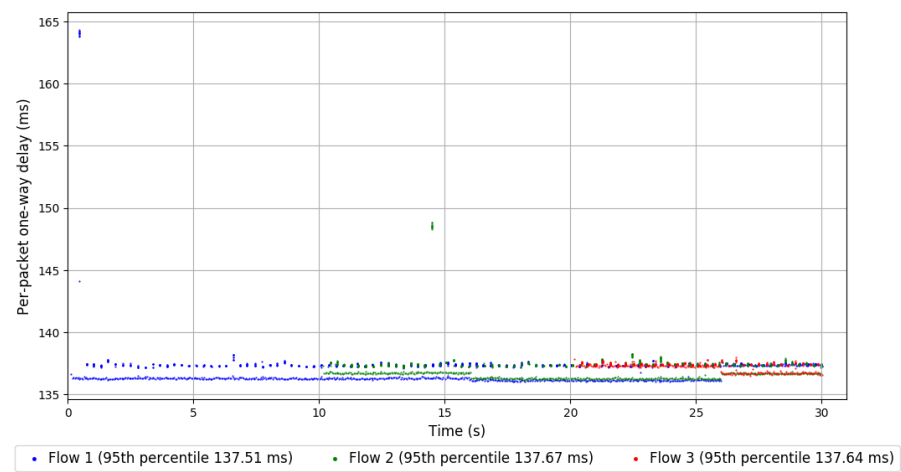
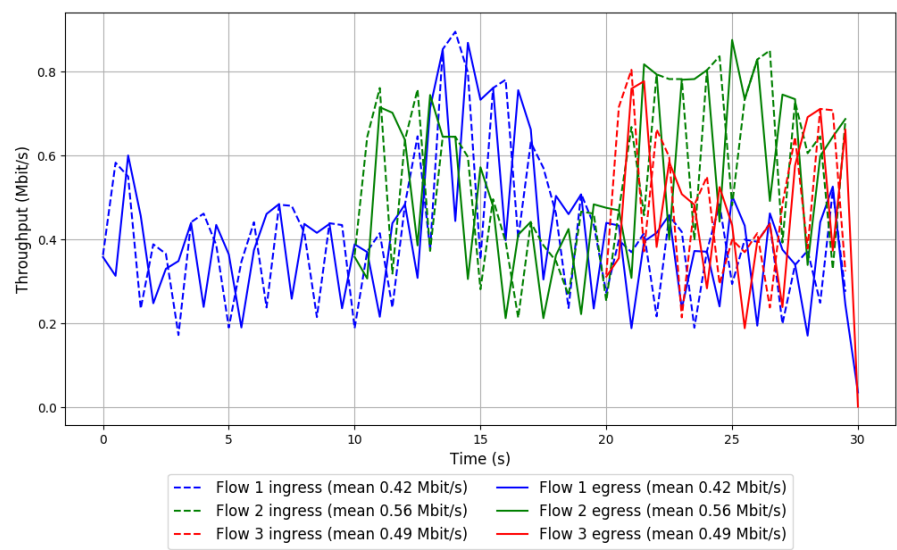
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 137.636 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-21 08:01:59

End at: 2017-12-21 08:02:29

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 137.643 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.739 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.578 ms

Loss rate: 0.00%

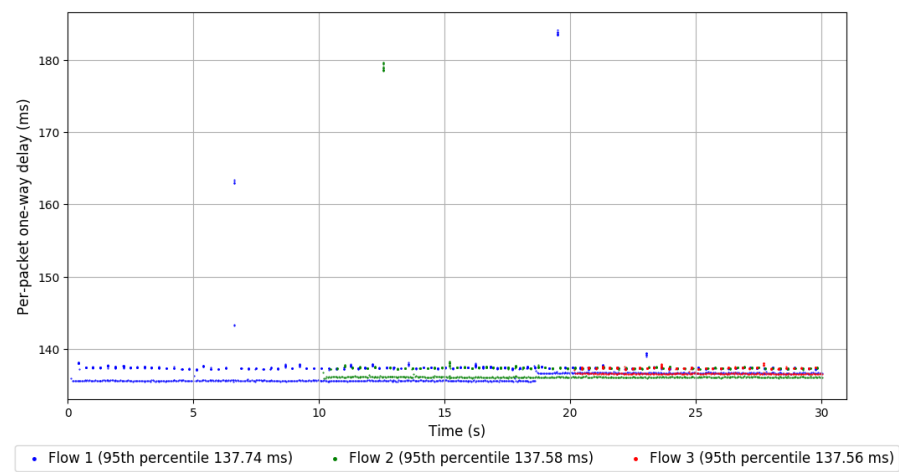
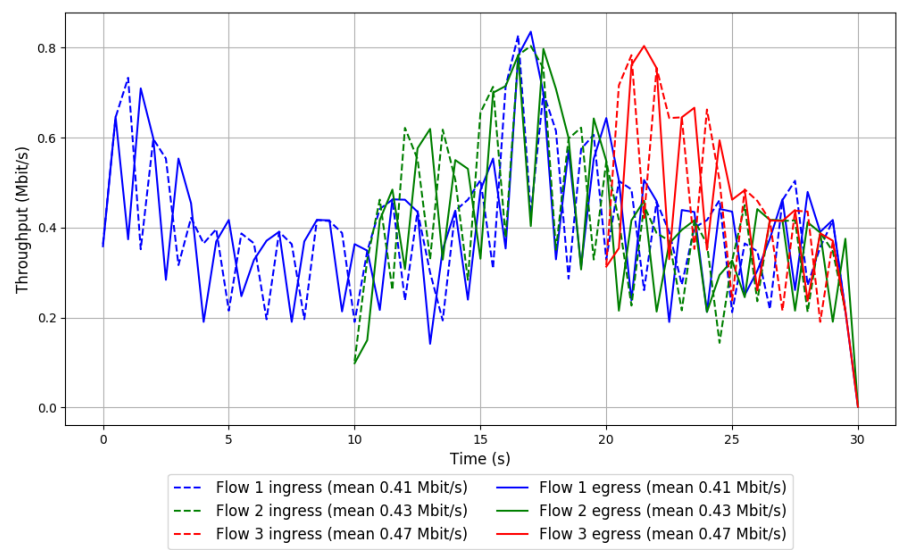
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 137.559 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-21 08:18:17

End at: 2017-12-21 08:18:47

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 137.707 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 137.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.635 ms

Loss rate: 0.00%

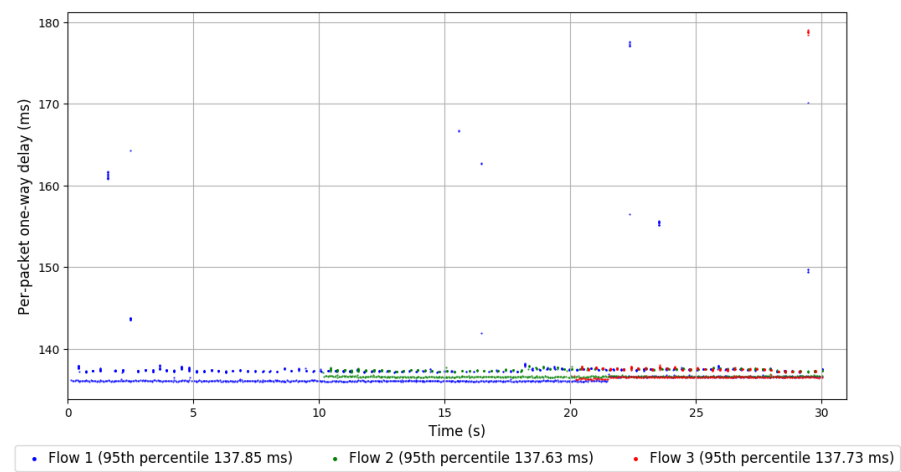
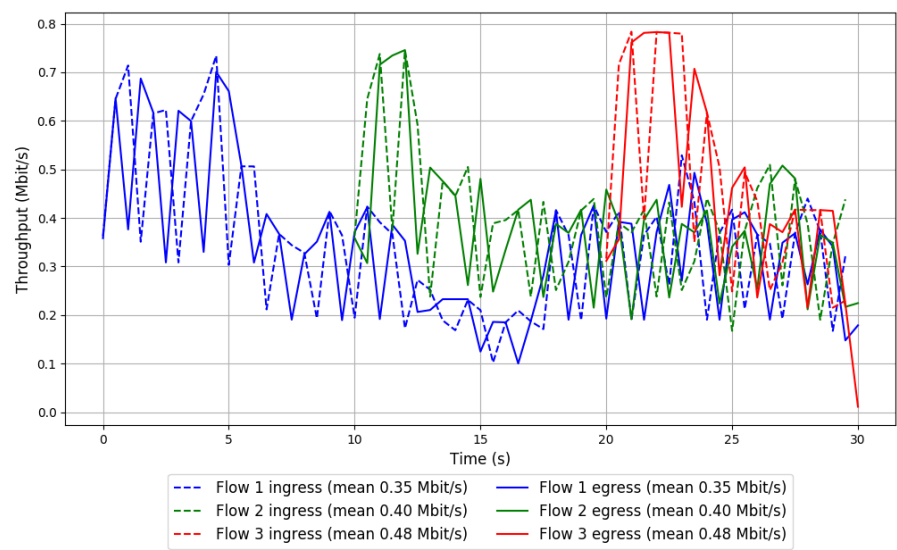
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 137.729 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-21 08:33:46

End at: 2017-12-21 08:34:16

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 164.010 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 164.033 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 163.992 ms

Loss rate: 0.00%

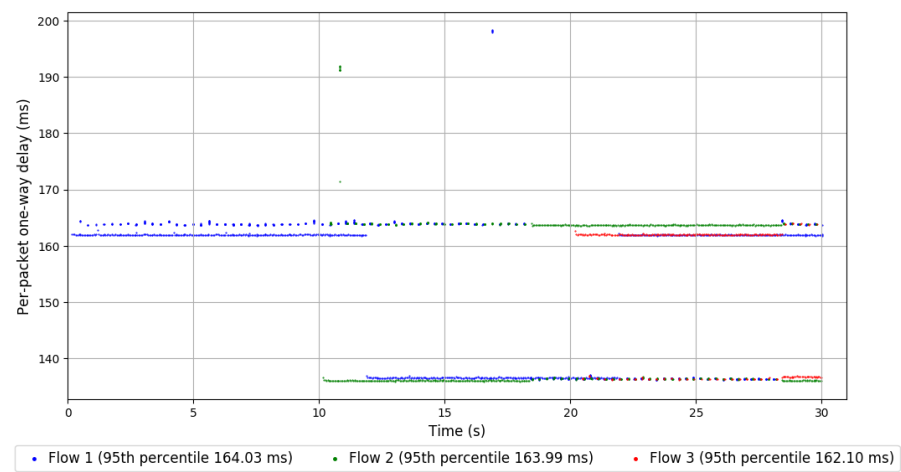
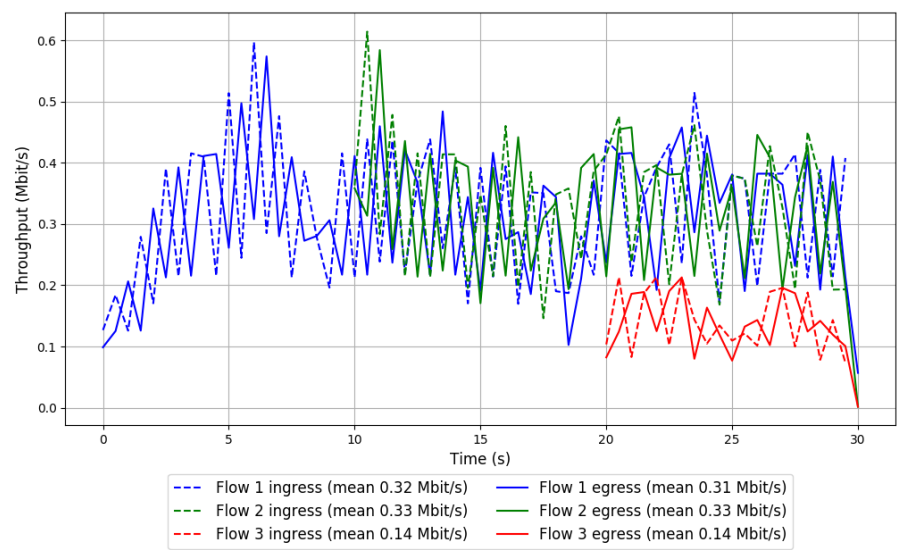
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 162.097 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-21 08:49:21

End at: 2017-12-21 08:49:51

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 164.031 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 164.012 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 163.927 ms

Loss rate: 0.00%

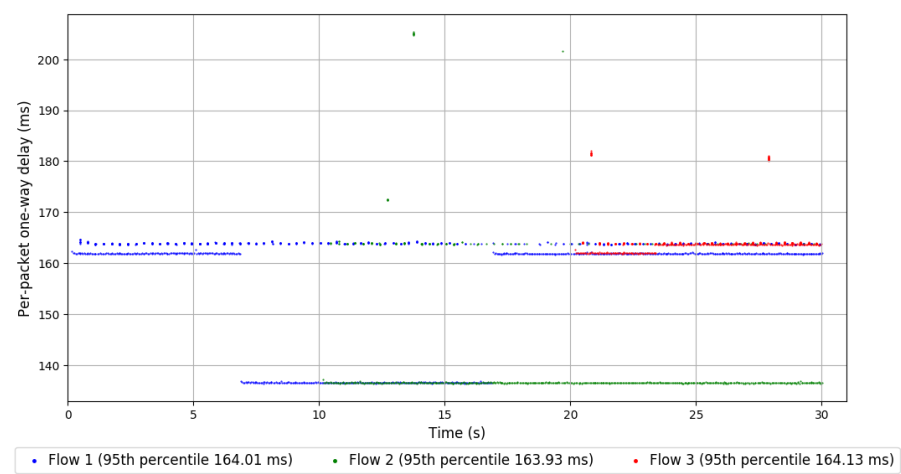
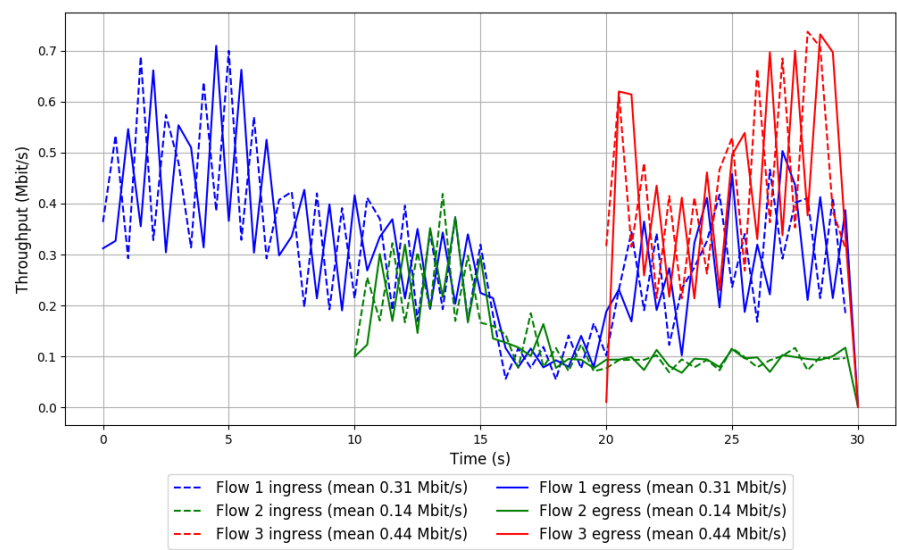
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 164.127 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-21 09:05:01

End at: 2017-12-21 09:05:31

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 137.611 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.733 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 138.020 ms

Loss rate: 0.00%

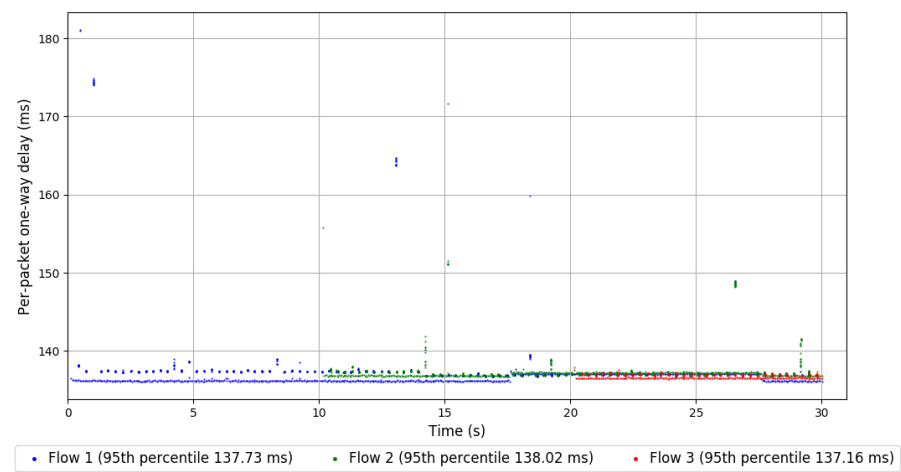
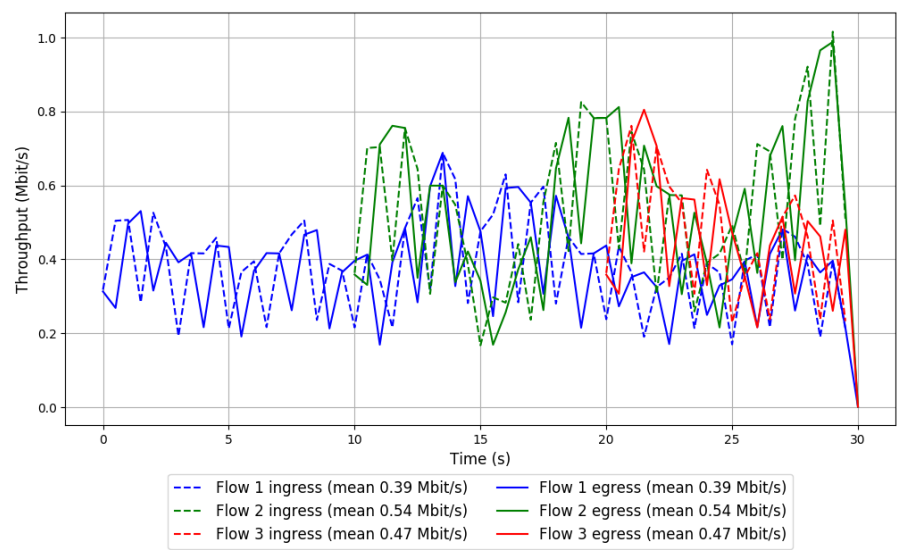
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 137.159 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-21 09:21:18

End at: 2017-12-21 09:21:48

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 137.644 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.561 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.648 ms

Loss rate: 0.00%

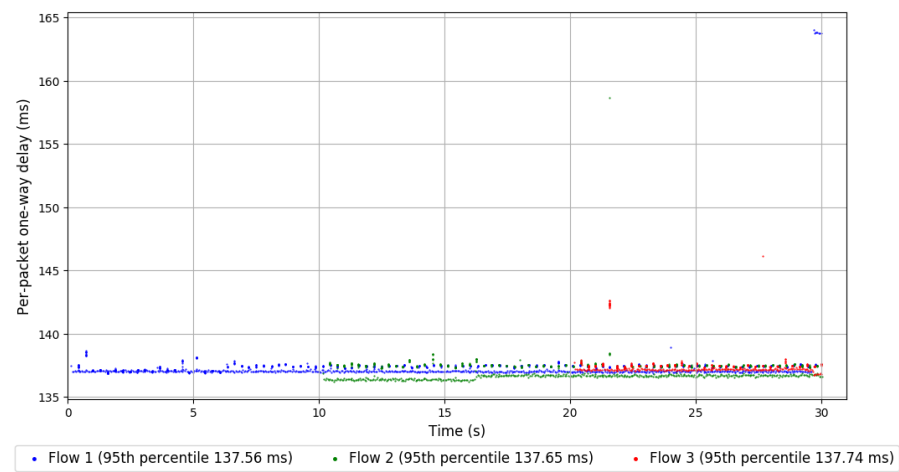
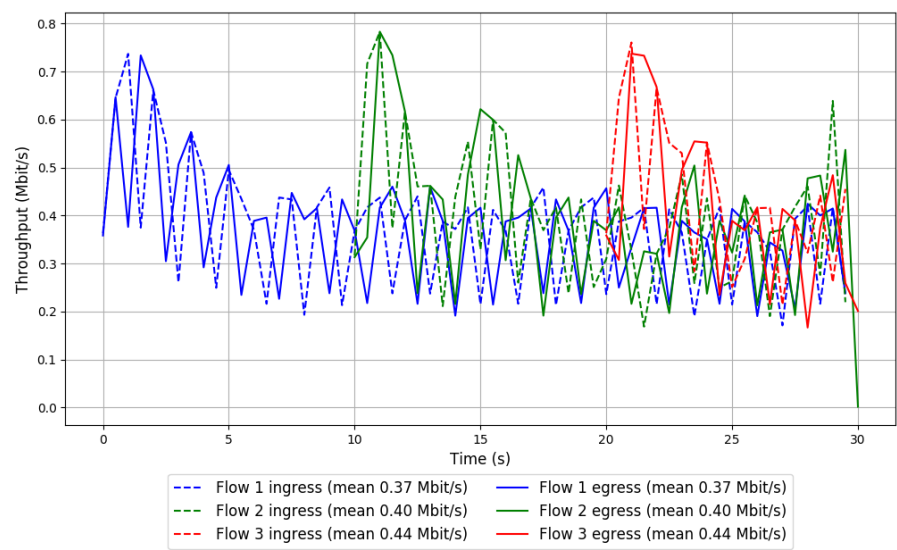
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.740 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-21 09:37:32

End at: 2017-12-21 09:38:02

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.816 ms

Loss rate: 0.00%

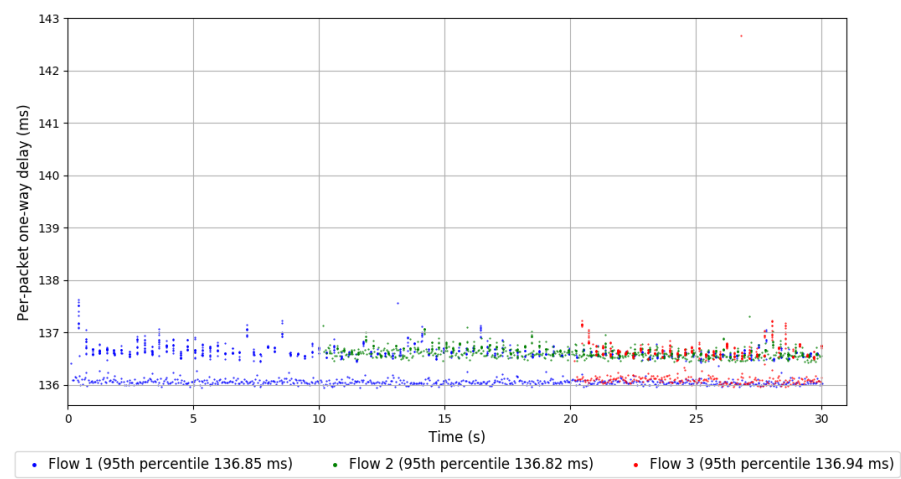
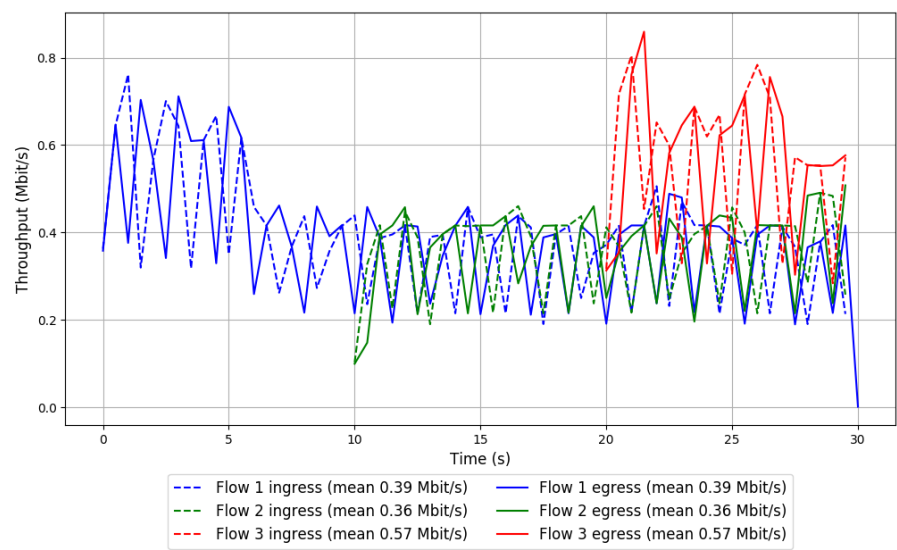
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 136.939 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-21 09:53:49

End at: 2017-12-21 09:54:19

Below is generated by plot.py at 2017-12-21 11:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 137.553 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.598 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.520 ms

Loss rate: 0.00%

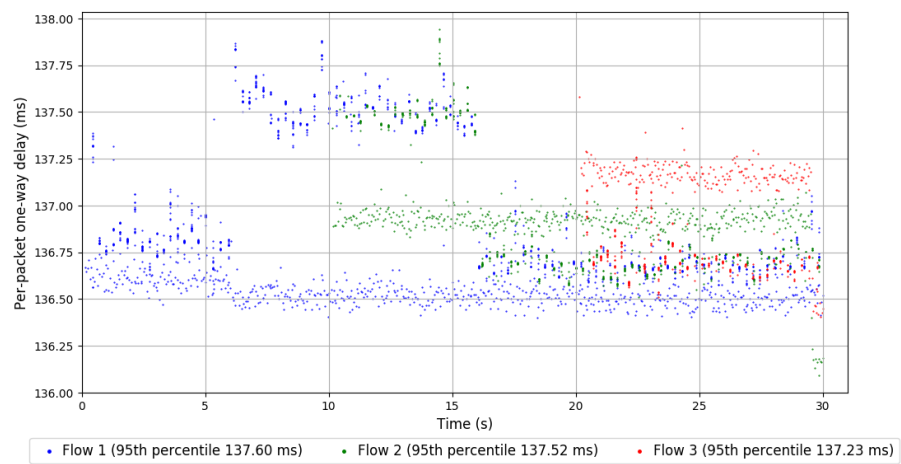
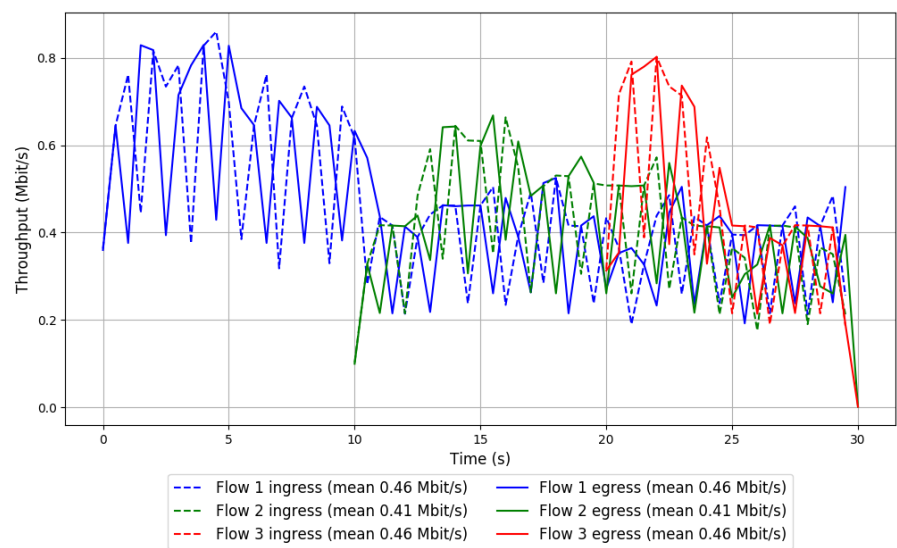
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.231 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

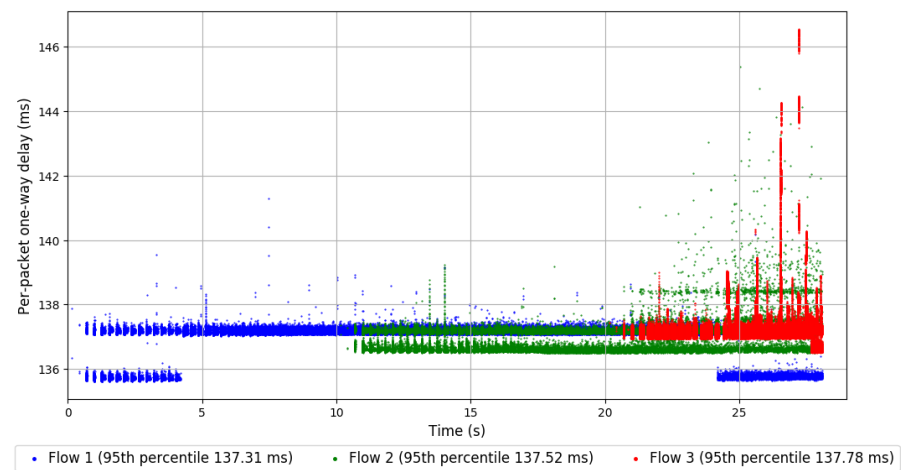
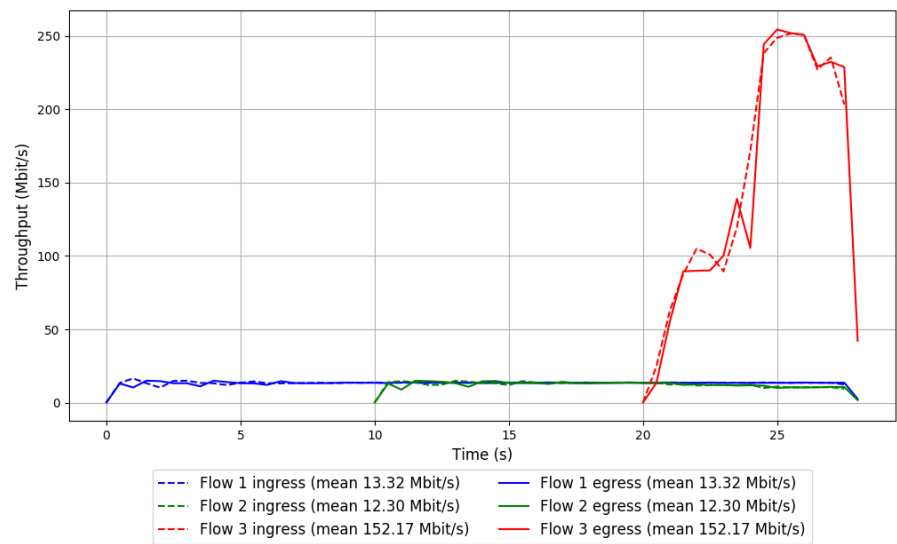


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-21 07:37:28
End at: 2017-12-21 07:37:58

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 137.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 137.518 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.17 Mbit/s
95th percentile per-packet one-way delay: 137.775 ms
Loss rate: 0.00%
```


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

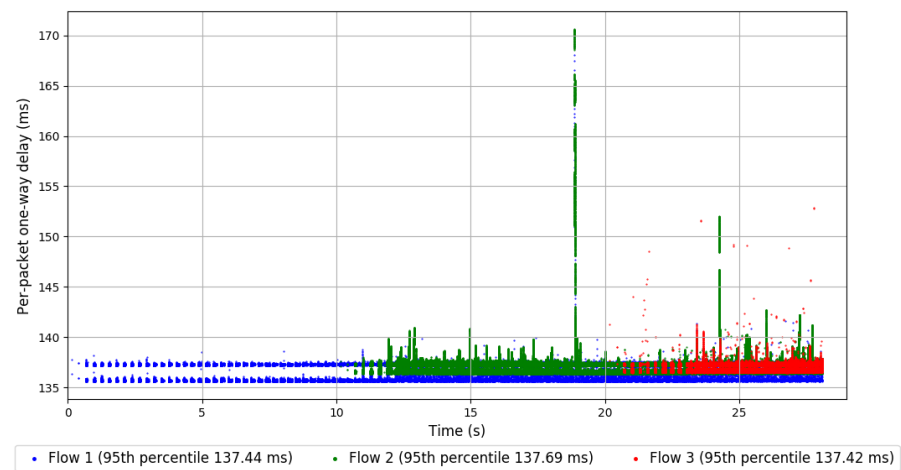
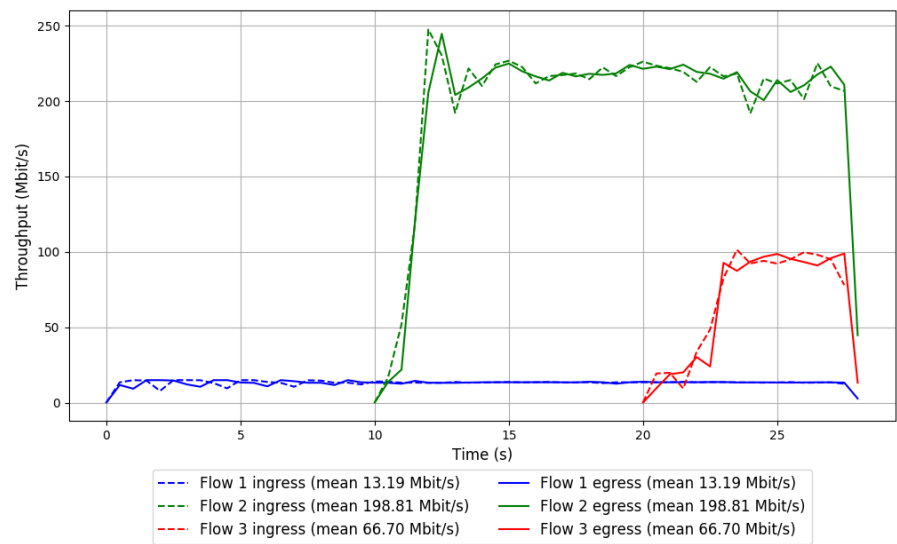


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-21 07:53:10
End at: 2017-12-21 07:53:40

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.75 Mbit/s
95th percentile per-packet one-way delay: 137.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 137.439 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 198.81 Mbit/s
95th percentile per-packet one-way delay: 137.691 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 137.417 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-21 08:09:06

End at: 2017-12-21 08:09:36

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.84 Mbit/s

95th percentile per-packet one-way delay: 141.113 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 200.69 Mbit/s

95th percentile per-packet one-way delay: 139.324 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.95 Mbit/s

95th percentile per-packet one-way delay: 144.283 ms

Loss rate: 0.01%

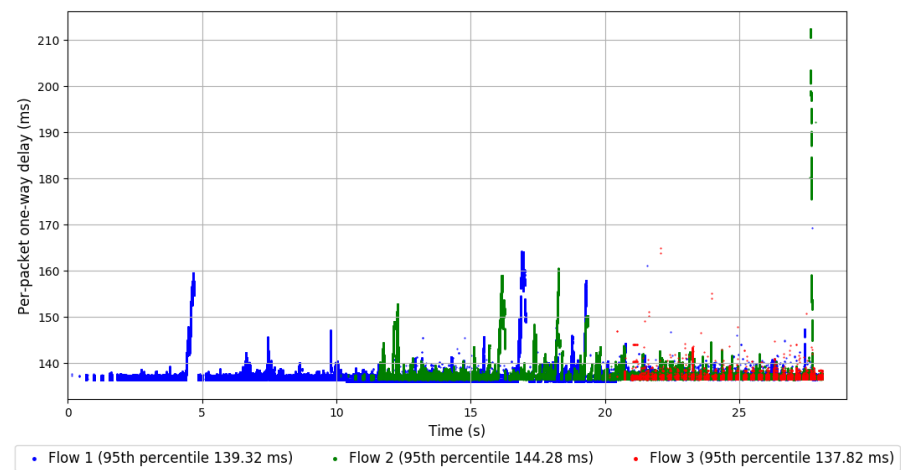
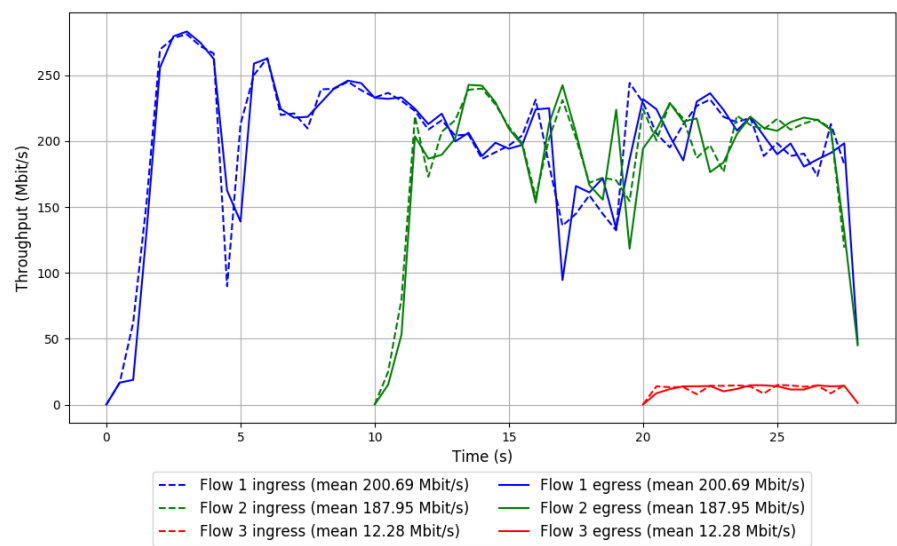
-- Flow 3:

Average throughput: 12.28 Mbit/s

95th percentile per-packet one-way delay: 137.818 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-21 08:25:29

End at: 2017-12-21 08:25:59

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.35 Mbit/s

95th percentile per-packet one-way delay: 163.787 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 163.791 ms

Loss rate: 3.78%

-- Flow 2:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 163.775 ms

Loss rate: 0.00%

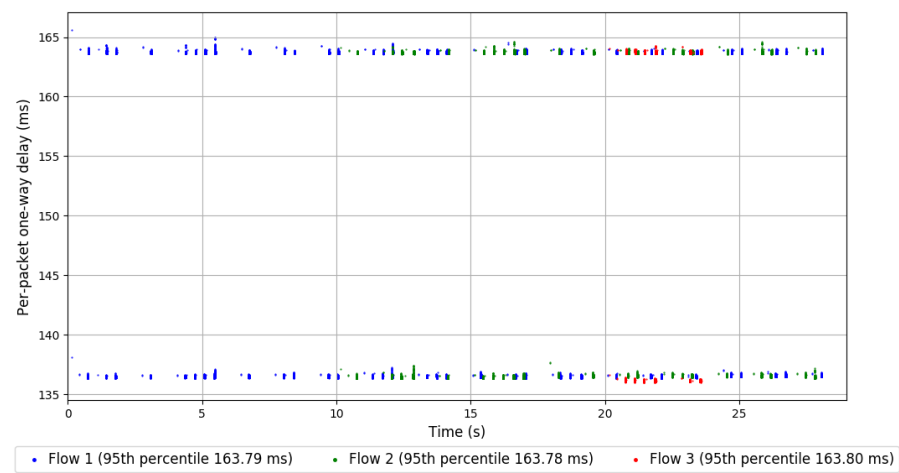
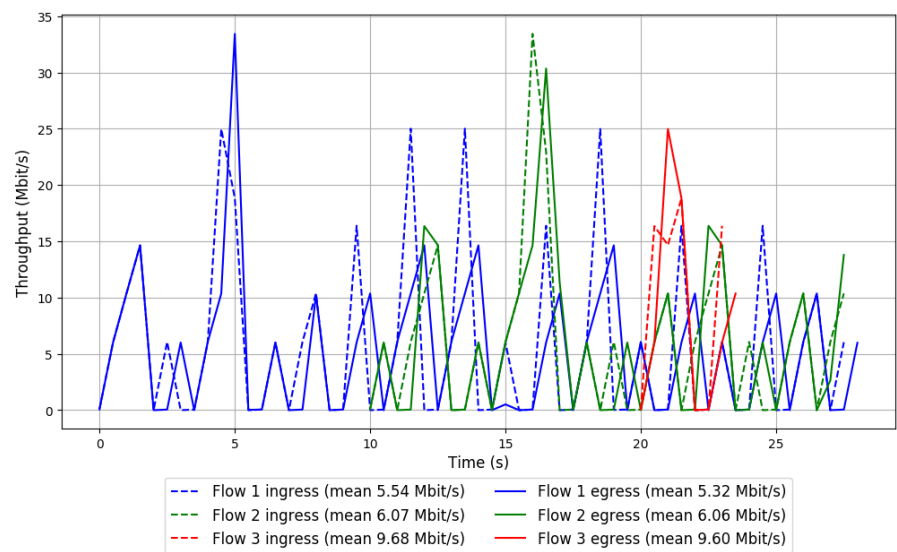
-- Flow 3:

Average throughput: 9.60 Mbit/s

95th percentile per-packet one-way delay: 163.803 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-21 08:40:46

End at: 2017-12-21 08:41:16

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.46 Mbit/s

95th percentile per-packet one-way delay: 163.618 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.14 Mbit/s

95th percentile per-packet one-way delay: 162.637 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.16 Mbit/s

95th percentile per-packet one-way delay: 163.662 ms

Loss rate: 0.00%

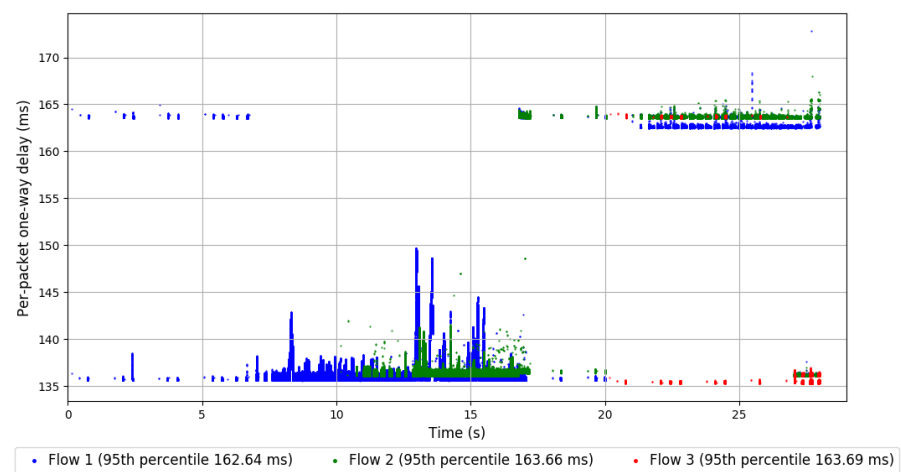
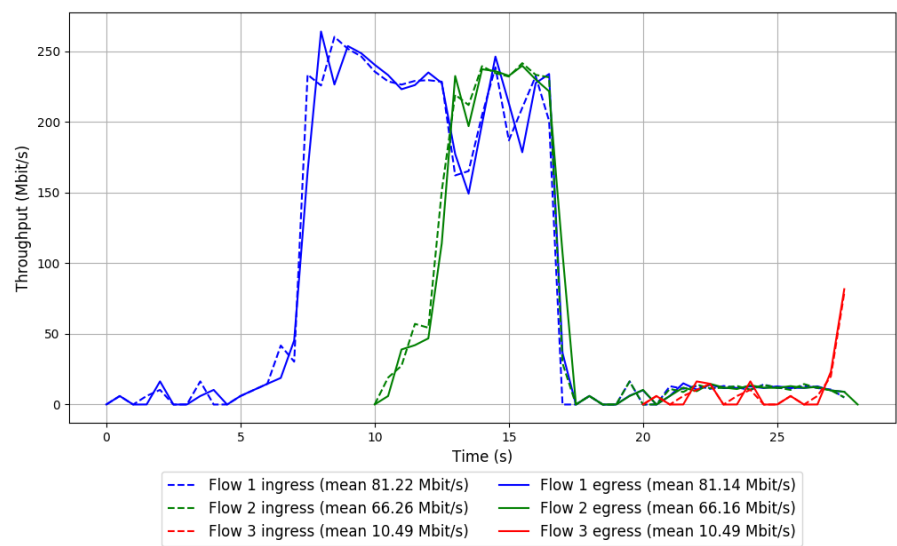
-- Flow 3:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 163.687 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-21 08:56:20

End at: 2017-12-21 08:56:50

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.82 Mbit/s

95th percentile per-packet one-way delay: 137.338 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 161.603 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 200.52 Mbit/s

95th percentile per-packet one-way delay: 137.299 ms

Loss rate: 0.12%

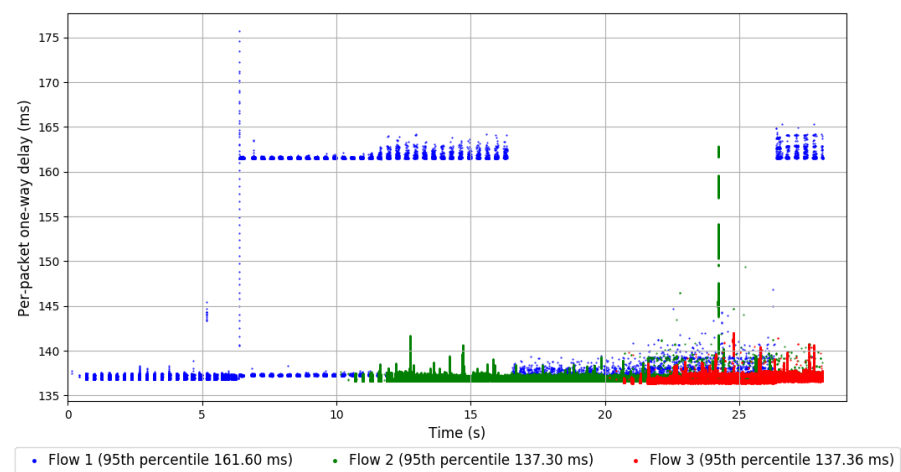
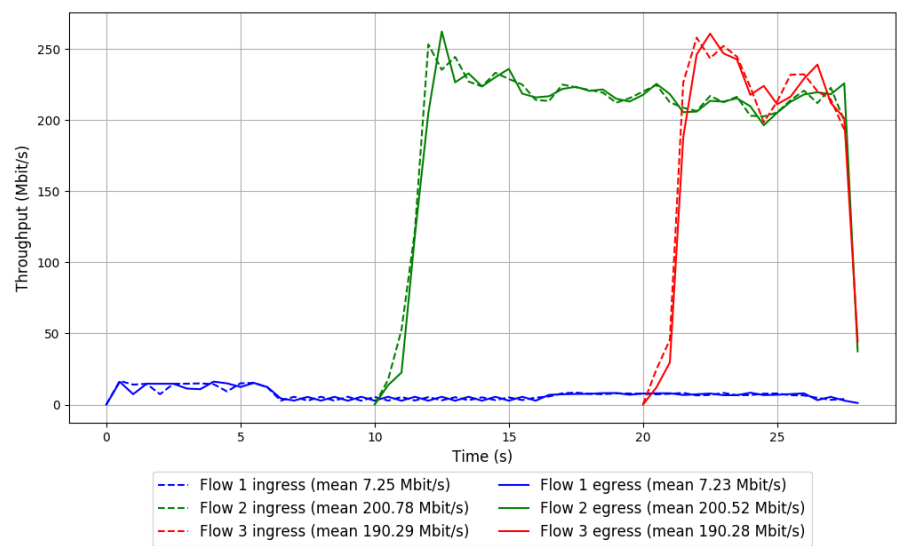
-- Flow 3:

Average throughput: 190.28 Mbit/s

95th percentile per-packet one-way delay: 137.360 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-21 09:12:07

End at: 2017-12-21 09:12:37

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.08 Mbit/s

95th percentile per-packet one-way delay: 138.049 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 195.17 Mbit/s

95th percentile per-packet one-way delay: 137.912 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 163.903 ms

Loss rate: 0.04%

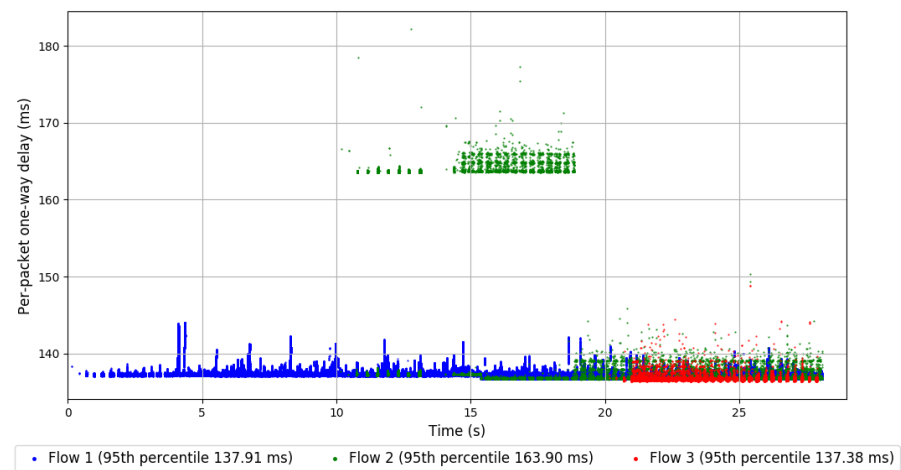
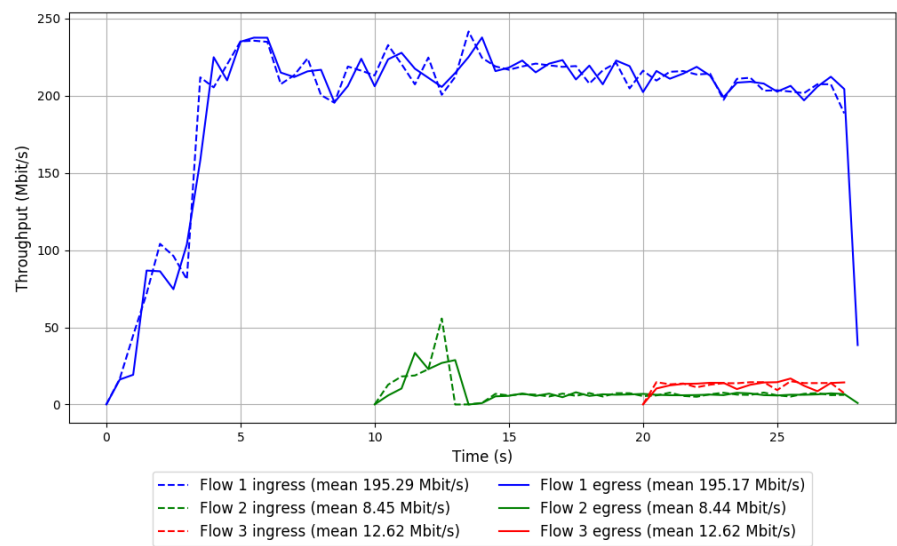
-- Flow 3:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 137.385 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-21 09:28:29

End at: 2017-12-21 09:28:59

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.16 Mbit/s

95th percentile per-packet one-way delay: 137.220 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 114.74 Mbit/s

95th percentile per-packet one-way delay: 138.829 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 210.90 Mbit/s

95th percentile per-packet one-way delay: 136.891 ms

Loss rate: 0.00%

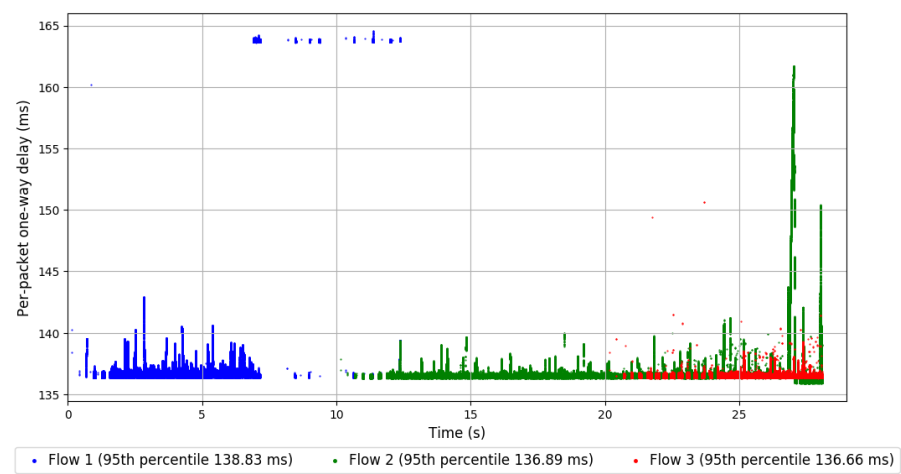
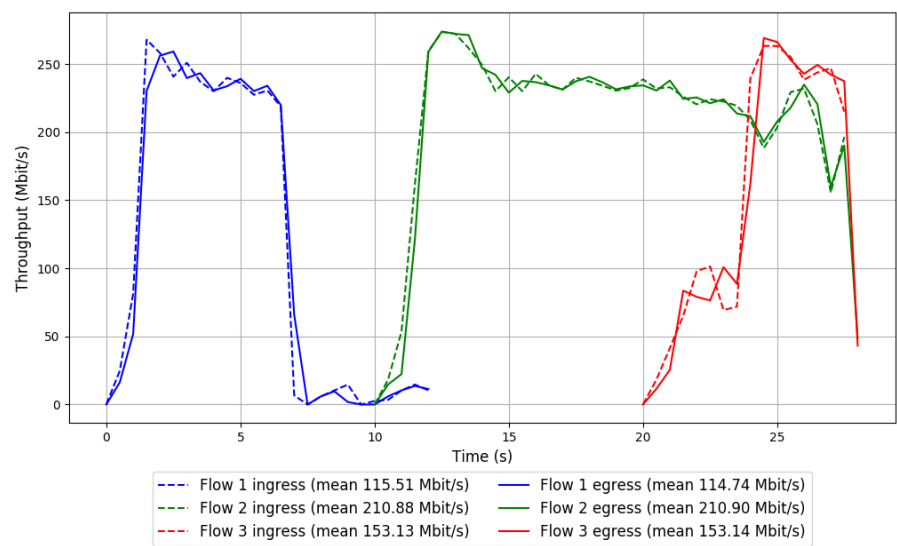
-- Flow 3:

Average throughput: 153.14 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-21 09:44:41

End at: 2017-12-21 09:45:11

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.55 Mbit/s

95th percentile per-packet one-way delay: 137.030 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 210.15 Mbit/s

95th percentile per-packet one-way delay: 137.038 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 137.575 ms

Loss rate: 0.00%

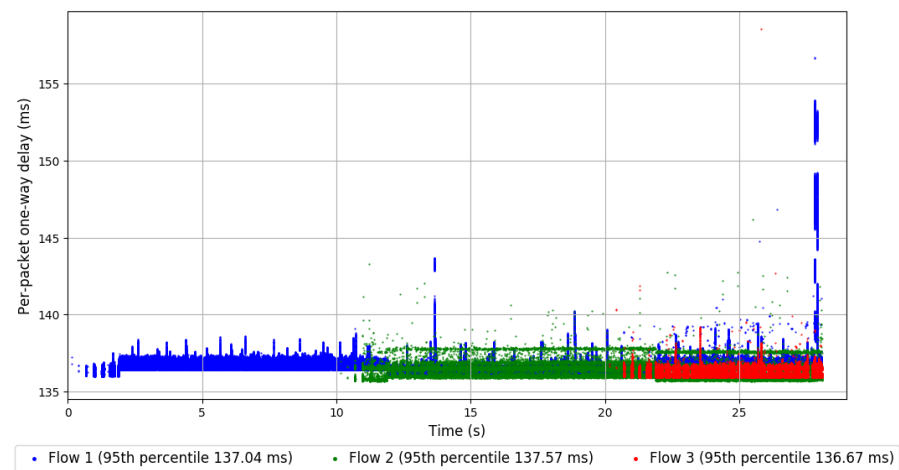
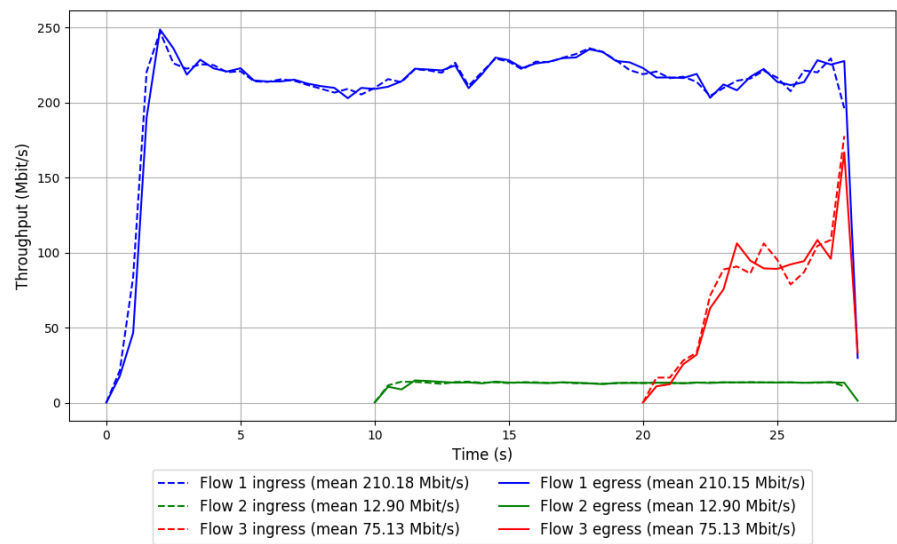
-- Flow 3:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 136.669 ms

Loss rate: 0.00%

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

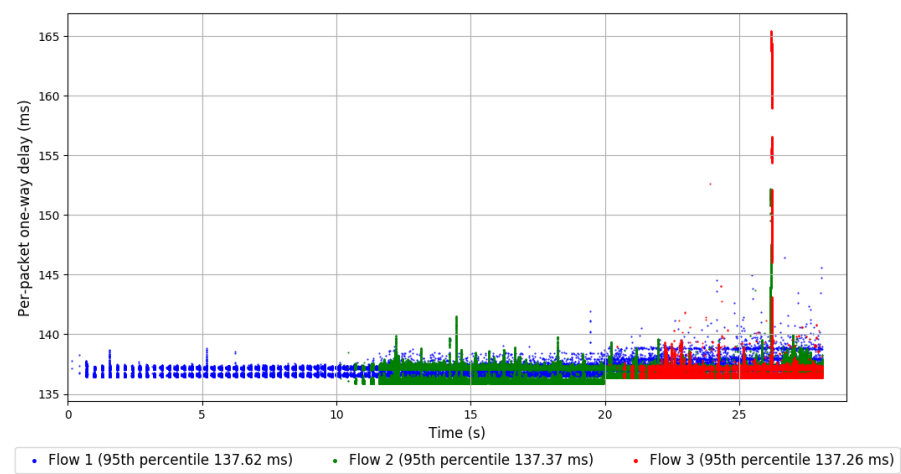
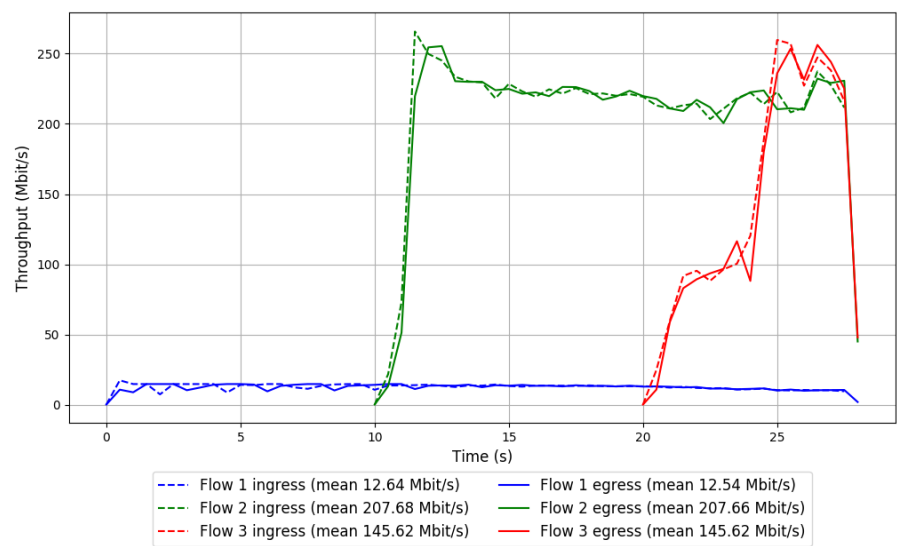


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-21 10:00:56
End at: 2017-12-21 10:01:26

# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 187.19 Mbit/s
95th percentile per-packet one-way delay: 137.350 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 137.623 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 207.66 Mbit/s
95th percentile per-packet one-way delay: 137.371 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.62 Mbit/s
95th percentile per-packet one-way delay: 137.257 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-21 07:30:08

End at: 2017-12-21 07:30:38

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 141.441 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 142.866 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 138.802 ms

Loss rate: 0.01%

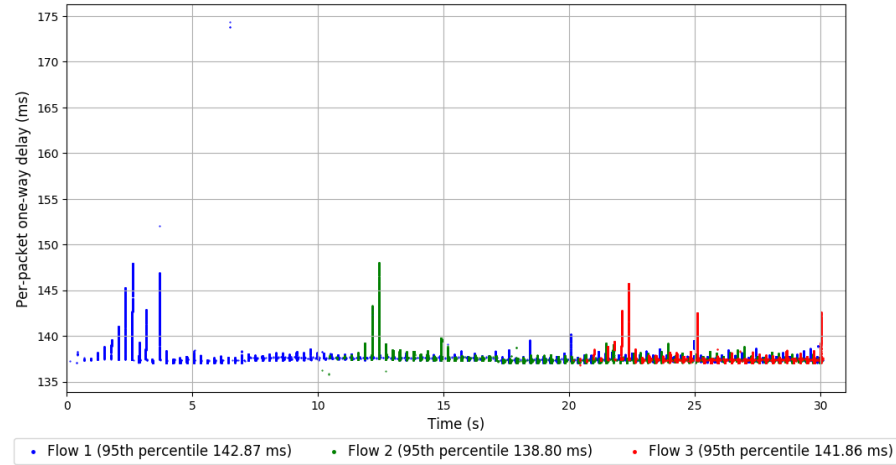
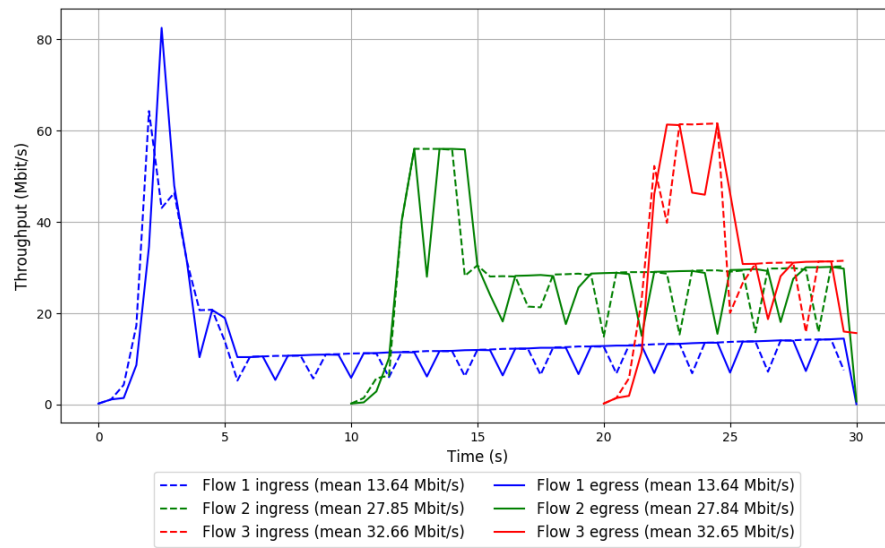
-- Flow 3:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 141.858 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-21 07:45:07

End at: 2017-12-21 07:45:37

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.46 Mbit/s

95th percentile per-packet one-way delay: 140.656 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 140.737 ms

Loss rate: 7.77%

-- Flow 2:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 140.948 ms

Loss rate: 1.57%

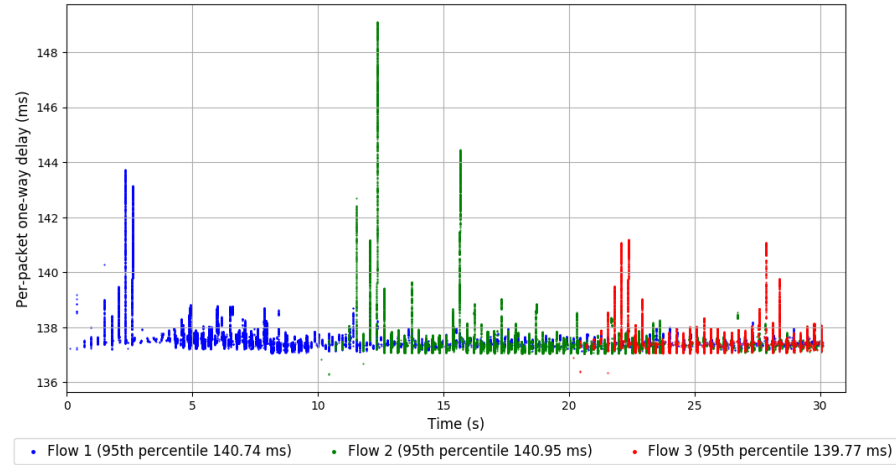
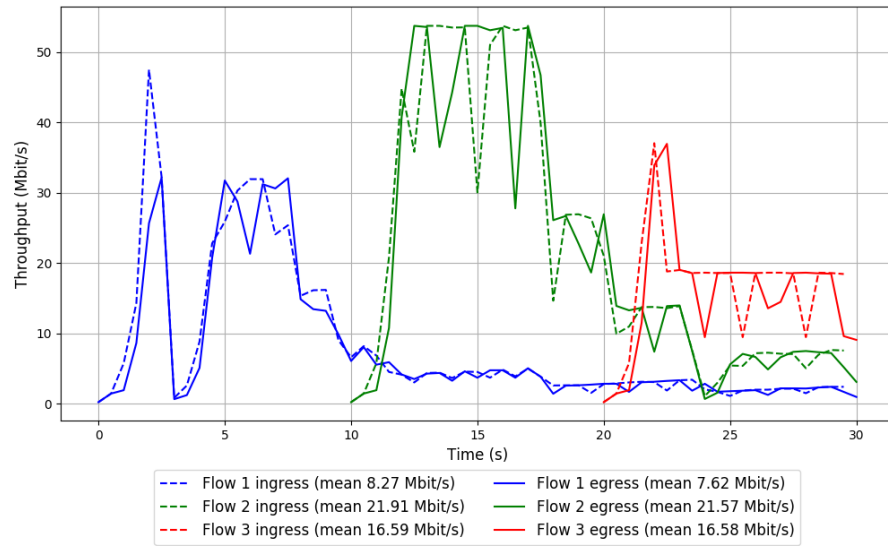
-- Flow 3:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: 139.768 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-21 08:01:06

End at: 2017-12-21 08:01:36

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 143.760 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 144.900 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 139.533 ms

Loss rate: 1.86%

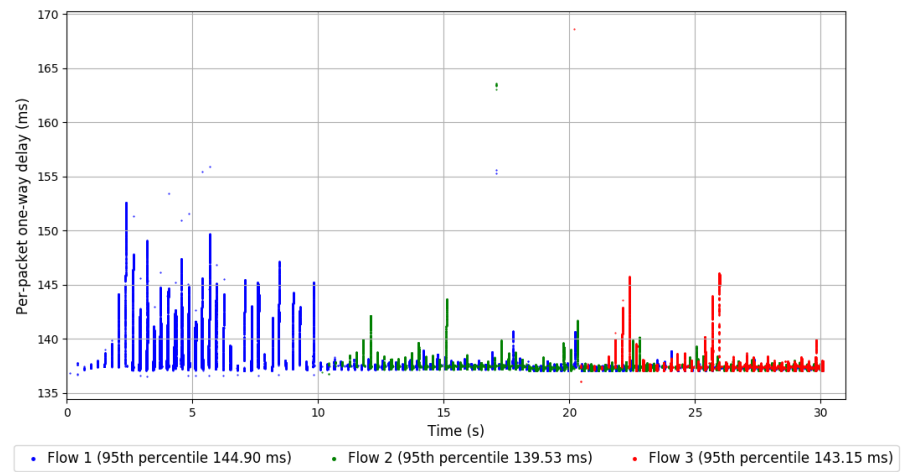
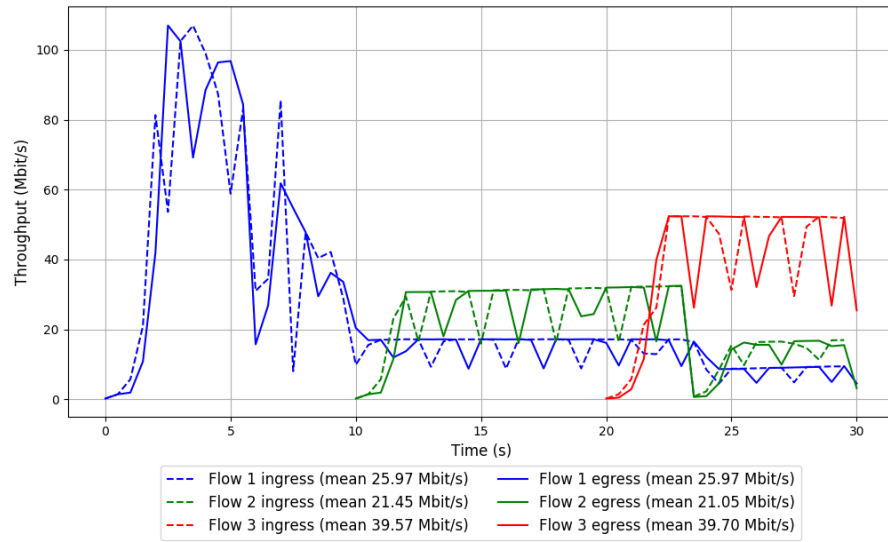
-- Flow 3:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 143.154 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-21 08:17:23

End at: 2017-12-21 08:17:53

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 141.870 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 26.04 Mbit/s

95th percentile per-packet one-way delay: 143.648 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 32.58 Mbit/s

95th percentile per-packet one-way delay: 138.606 ms

Loss rate: 0.00%

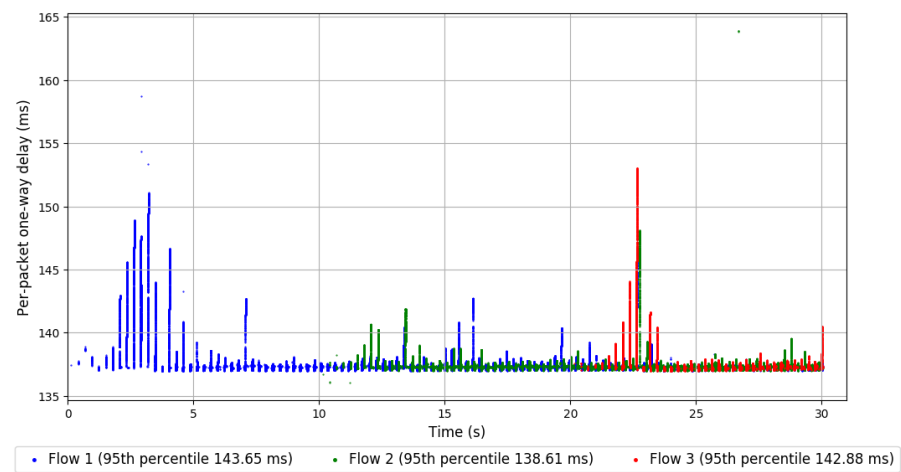
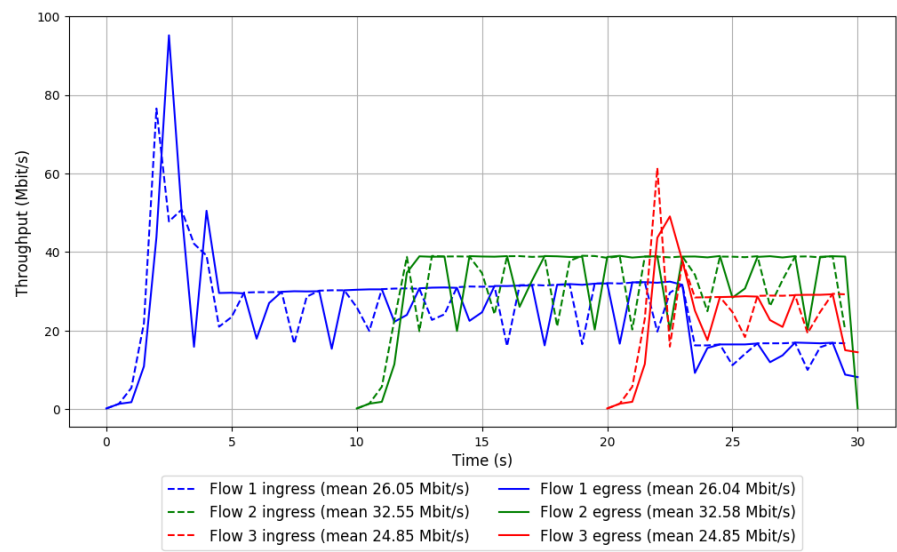
-- Flow 3:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 142.876 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-21 08:32:56

End at: 2017-12-21 08:33:26

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 166.632 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 164.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 164.162 ms

Loss rate: 0.00%

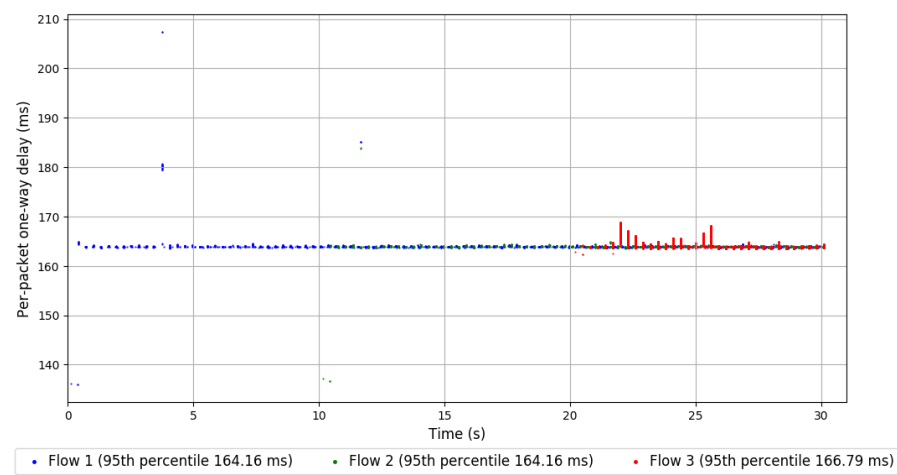
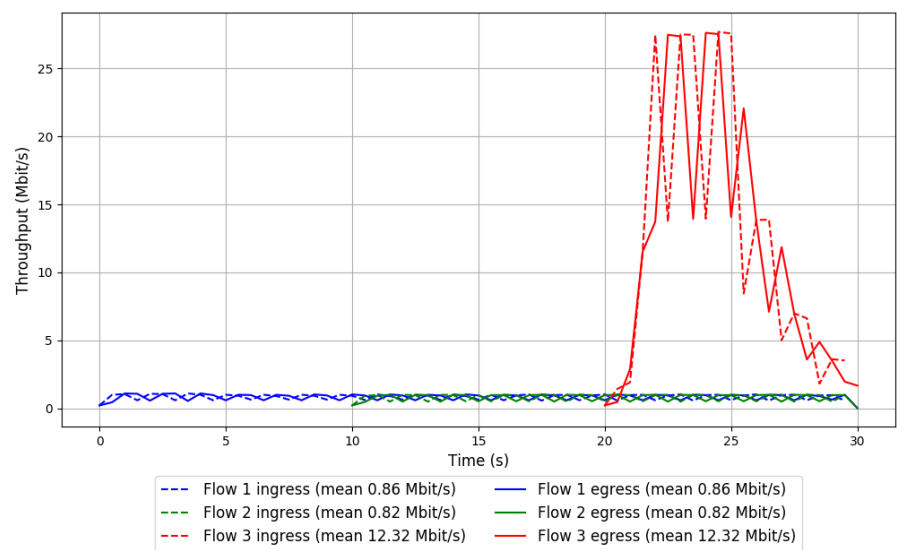
-- Flow 3:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 166.788 ms

Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-21 08:48:30

End at: 2017-12-21 08:49:00

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 165.168 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 165.288 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 164.211 ms

Loss rate: 0.00%

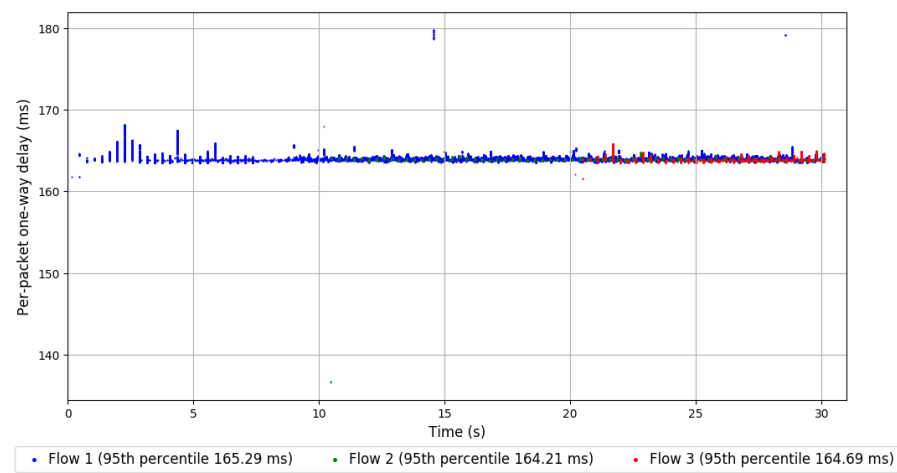
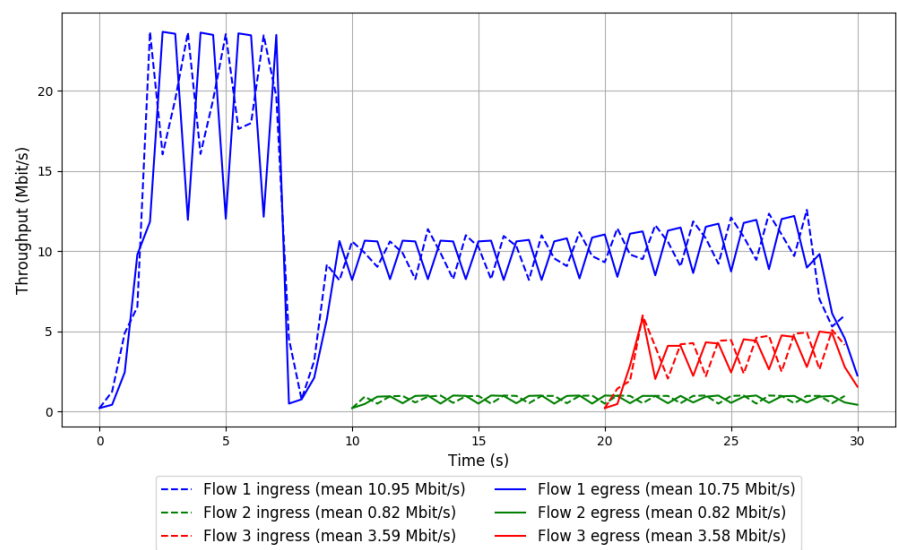
-- Flow 3:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 164.694 ms

Loss rate: 0.30%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-21 09:04:09

End at: 2017-12-21 09:04:39

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.71 Mbit/s

95th percentile per-packet one-way delay: 138.786 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 137.921 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 23.22 Mbit/s

95th percentile per-packet one-way delay: 138.745 ms

Loss rate: 1.55%

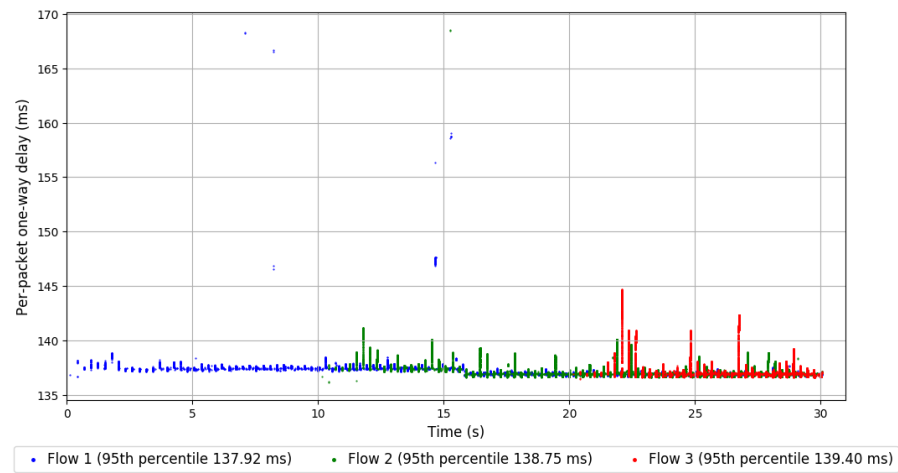
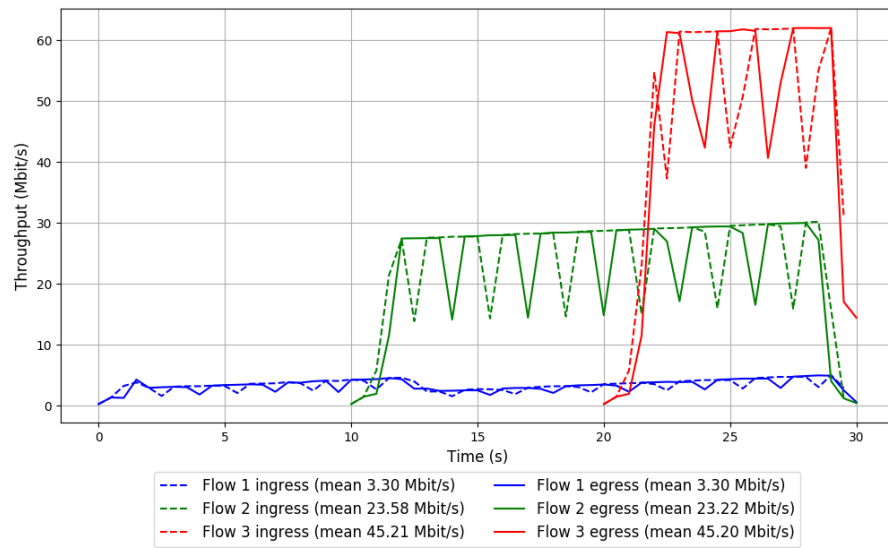
-- Flow 3:

Average throughput: 45.20 Mbit/s

95th percentile per-packet one-way delay: 139.396 ms

Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-21 09:20:25

End at: 2017-12-21 09:20:55

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 145.539 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 26.42 Mbit/s

95th percentile per-packet one-way delay: 148.044 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 140.335 ms

Loss rate: 0.08%

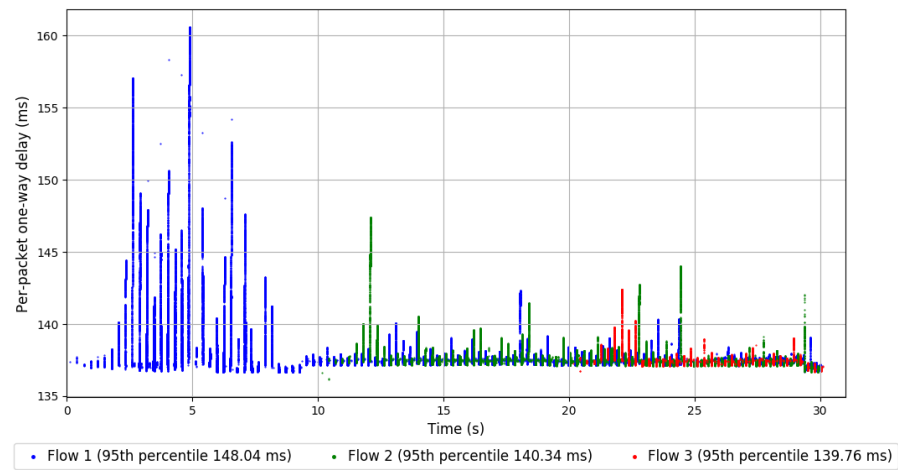
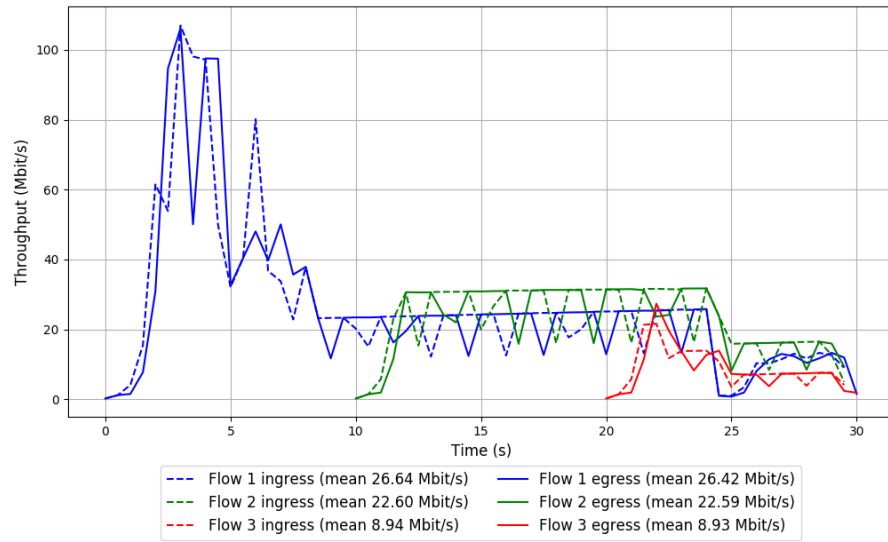
-- Flow 3:

Average throughput: 8.93 Mbit/s

95th percentile per-packet one-way delay: 139.760 ms

Loss rate: 0.14%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-21 09:36:40

End at: 2017-12-21 09:37:10

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 142.783 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 138.473 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 146.124 ms

Loss rate: 0.01%

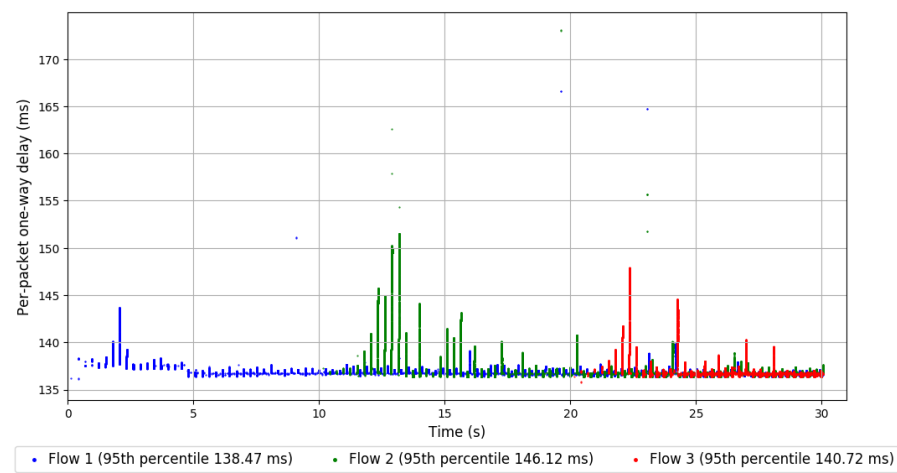
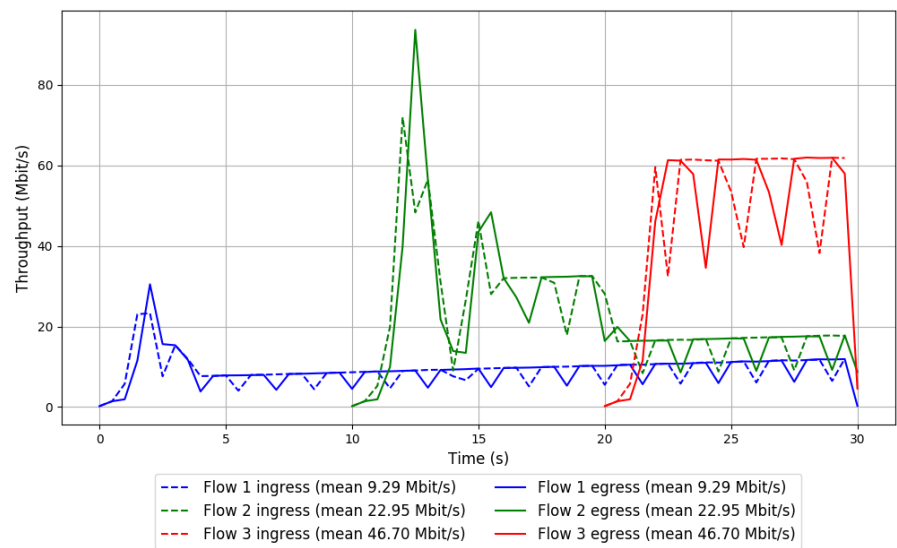
-- Flow 3:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 140.725 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-21 09:52:58

End at: 2017-12-21 09:53:28

Below is generated by plot.py at 2017-12-21 11:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 137.632 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 137.216 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 137.016 ms

Loss rate: 0.06%

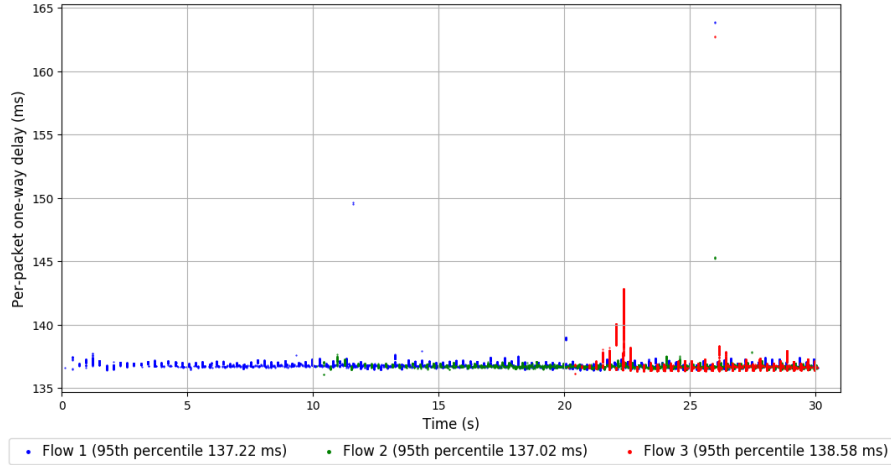
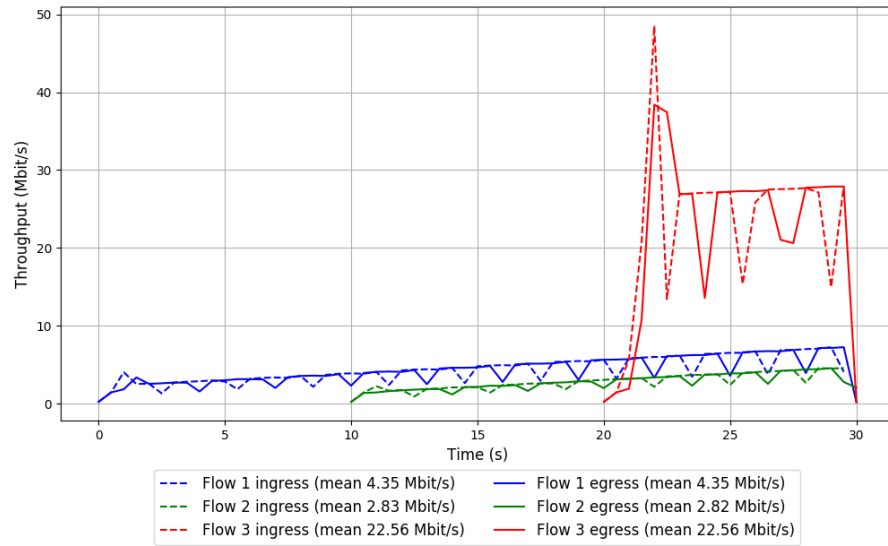
-- Flow 3:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 138.576 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-21 07:27:10

End at: 2017-12-21 07:27:40

Below is generated by plot.py at 2017-12-21 11:41:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.84 Mbit/s

95th percentile per-packet one-way delay: 334.013 ms

Loss rate: 8.81%

-- Flow 1:

Average throughput: 72.89 Mbit/s

95th percentile per-packet one-way delay: 190.188 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 187.70 Mbit/s

95th percentile per-packet one-way delay: 345.663 ms

Loss rate: 13.72%

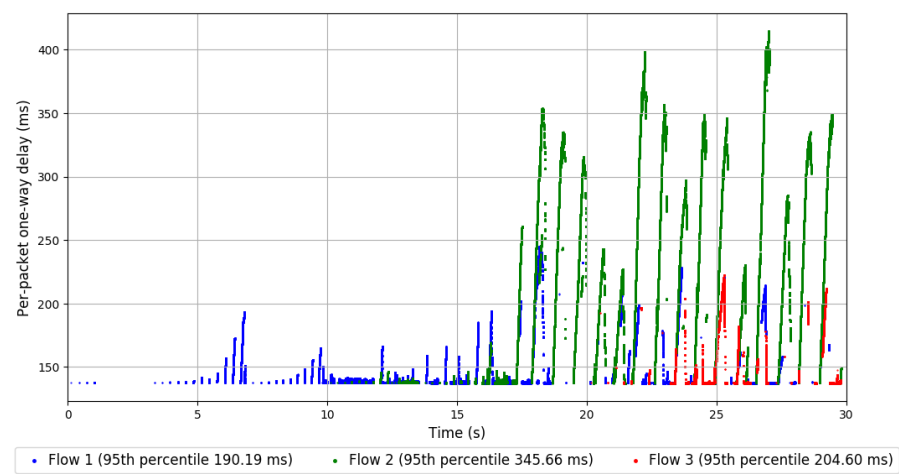
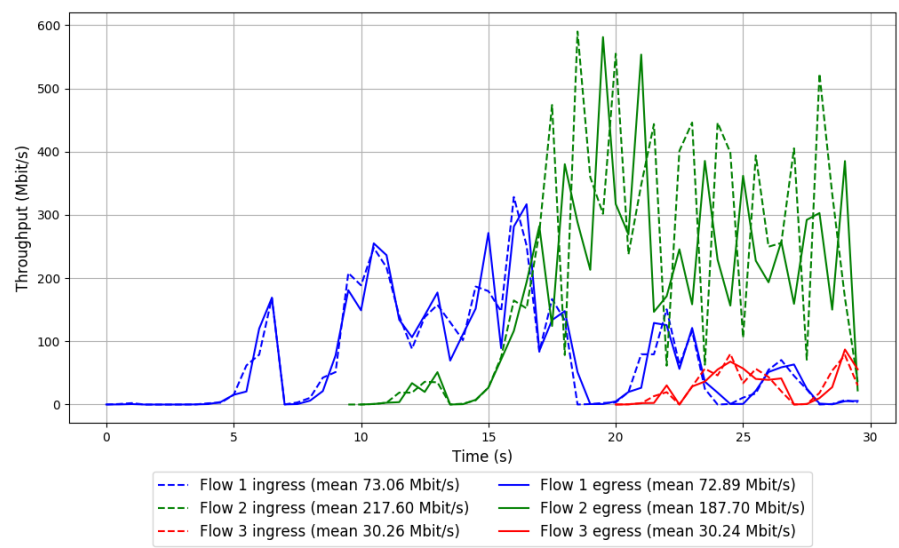
-- Flow 3:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 204.604 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link

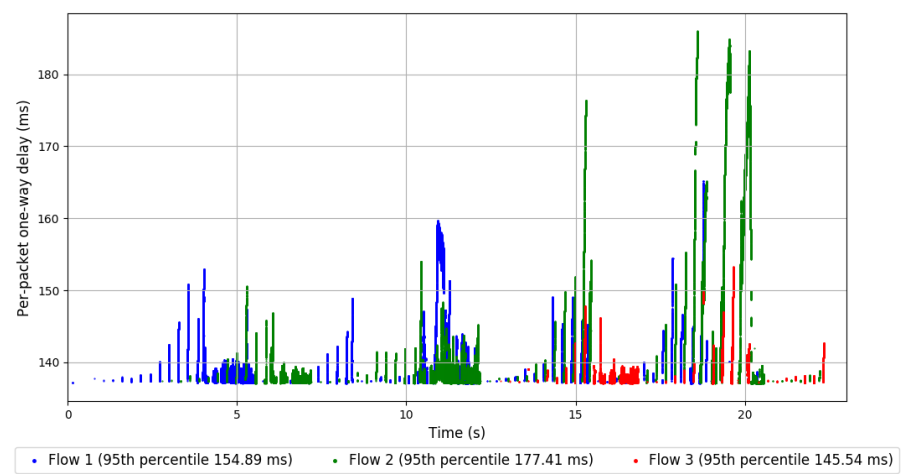
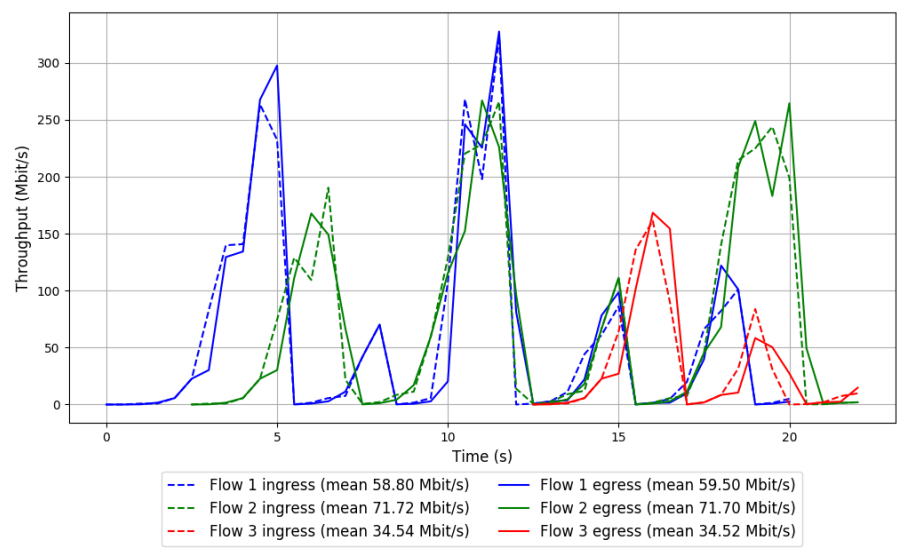


Run 2: Statistics of Verus

Start at: 2017-12-21 07:42:18

End at: 2017-12-21 07:42:48

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-21 07:58:09

End at: 2017-12-21 07:58:39

Below is generated by plot.py at 2017-12-21 11:41:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.07 Mbit/s

95th percentile per-packet one-way delay: 242.142 ms

Loss rate: 3.16%

-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 179.258 ms

Loss rate: 3.56%

-- Flow 2:

Average throughput: 176.07 Mbit/s

95th percentile per-packet one-way delay: 243.636 ms

Loss rate: 2.17%

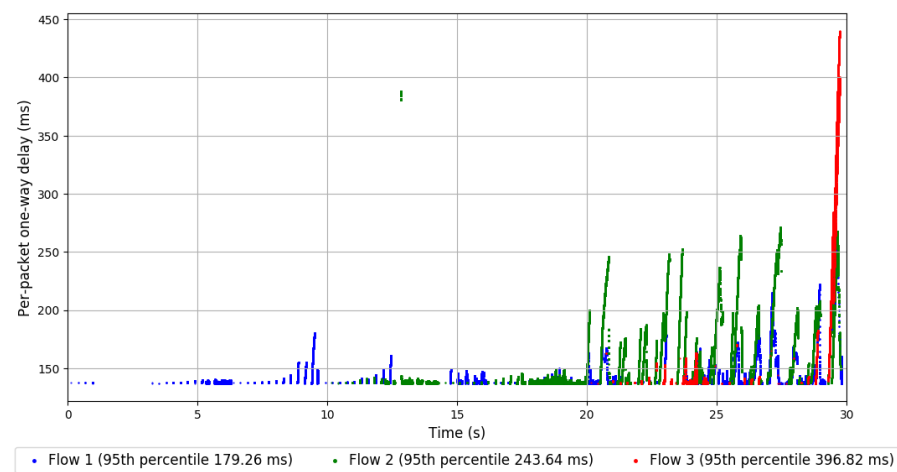
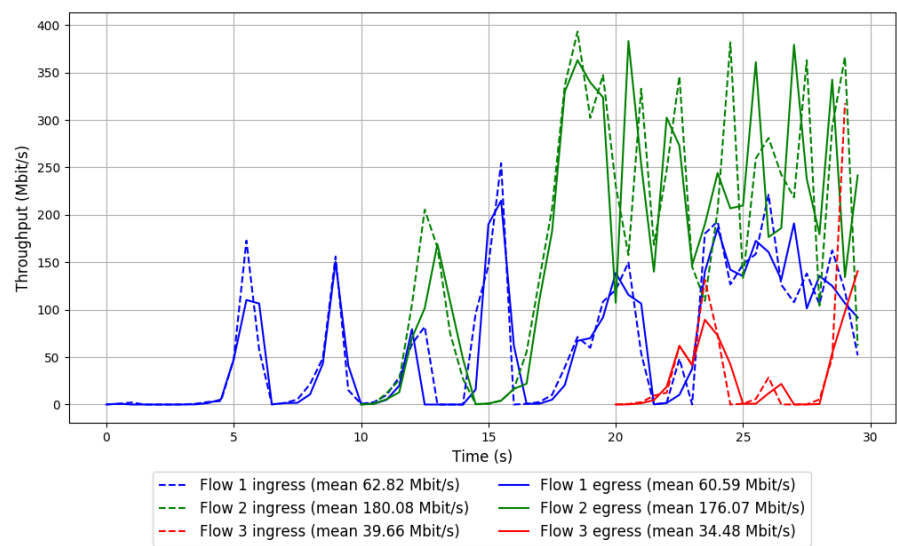
-- Flow 3:

Average throughput: 34.48 Mbit/s

95th percentile per-packet one-way delay: 396.825 ms

Loss rate: 10.68%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-21 08:14:26

End at: 2017-12-21 08:14:56

Below is generated by plot.py at 2017-12-21 11:41:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.07 Mbit/s

95th percentile per-packet one-way delay: 355.276 ms

Loss rate: 11.00%

-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 208.132 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 123.64 Mbit/s

95th percentile per-packet one-way delay: 381.221 ms

Loss rate: 17.58%

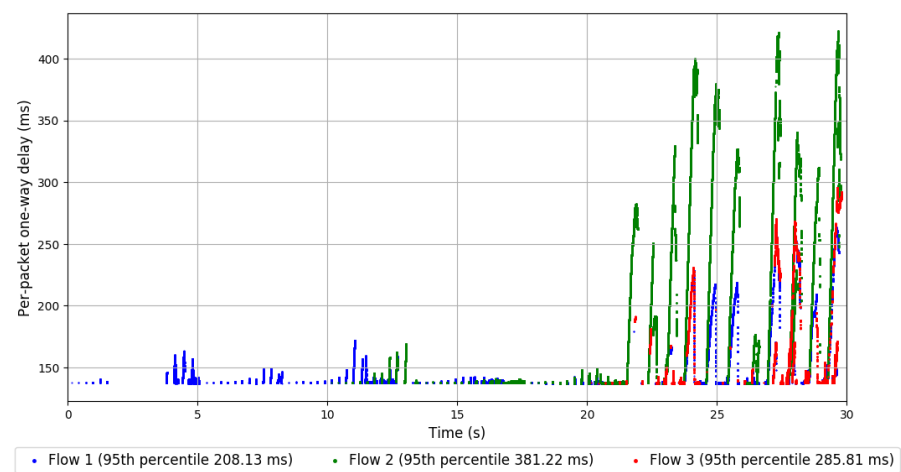
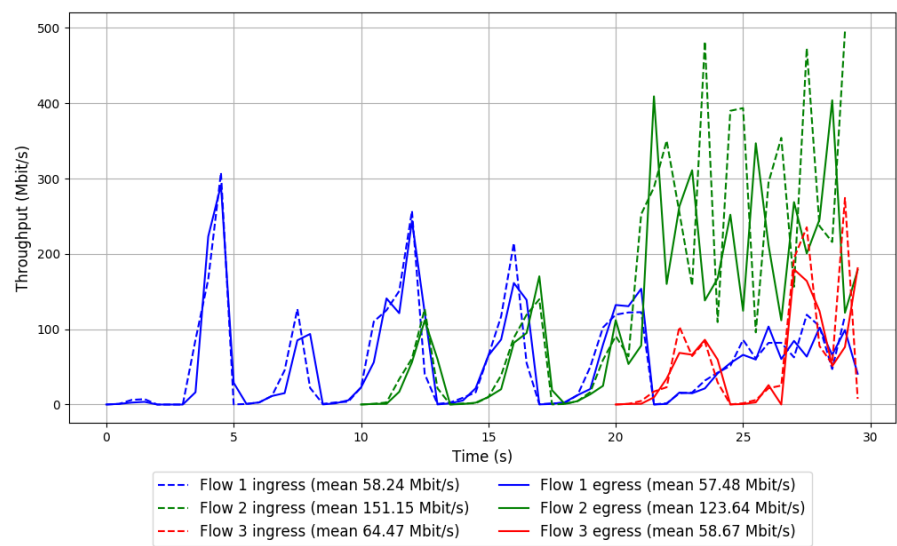
-- Flow 3:

Average throughput: 58.67 Mbit/s

95th percentile per-packet one-way delay: 285.805 ms

Loss rate: 7.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-21 08:30:00

End at: 2017-12-21 08:30:30

Below is generated by plot.py at 2017-12-21 11:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.33 Mbit/s

95th percentile per-packet one-way delay: 224.151 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 215.955 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.22 Mbit/s

95th percentile per-packet one-way delay: 268.017 ms

Loss rate: 3.31%

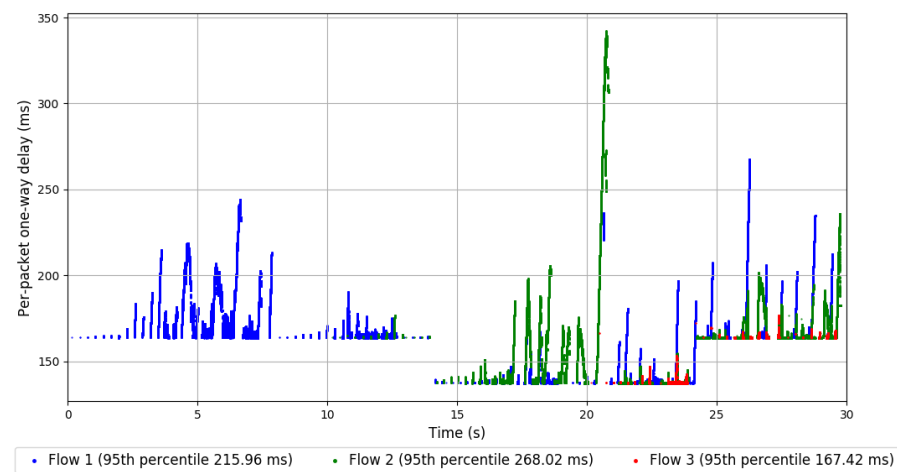
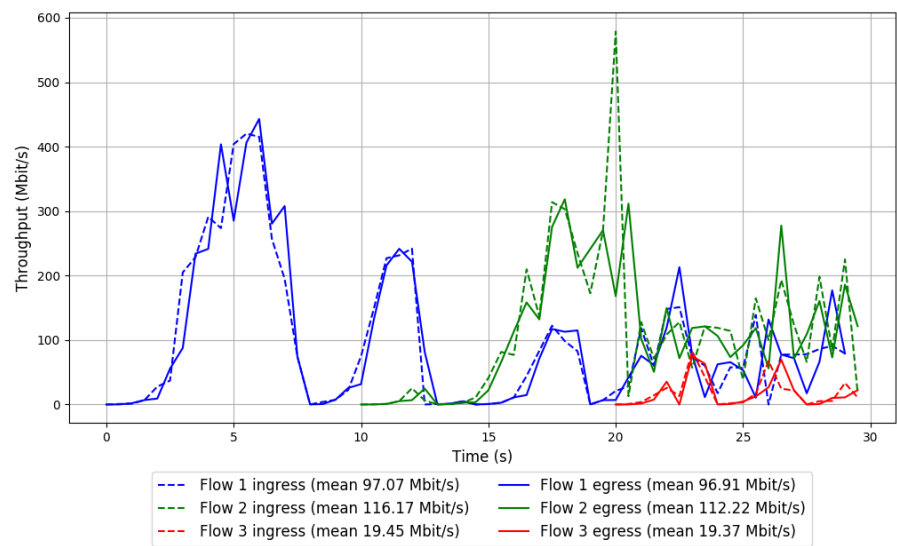
-- Flow 3:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 167.420 ms

Loss rate: 2.91%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-21 08:45:29

End at: 2017-12-21 08:45:59

Below is generated by plot.py at 2017-12-21 11:43:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.78 Mbit/s

95th percentile per-packet one-way delay: 219.562 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 118.10 Mbit/s

95th percentile per-packet one-way delay: 252.778 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 74.11 Mbit/s

95th percentile per-packet one-way delay: 170.688 ms

Loss rate: 0.42%

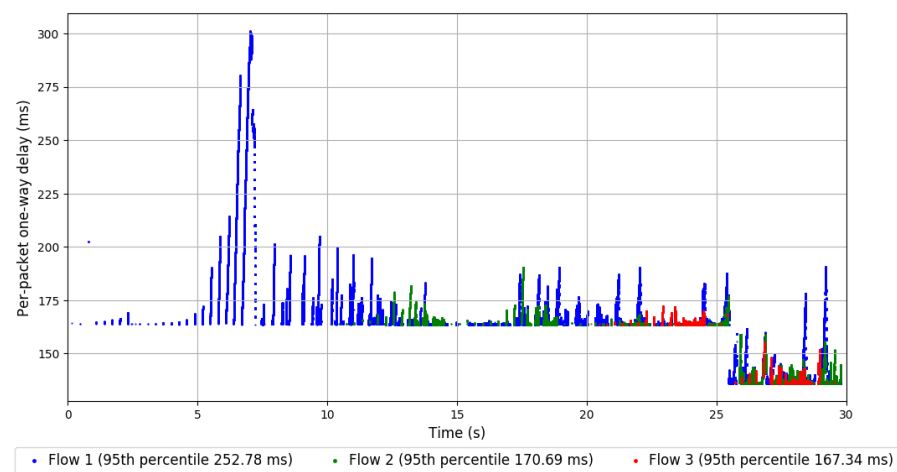
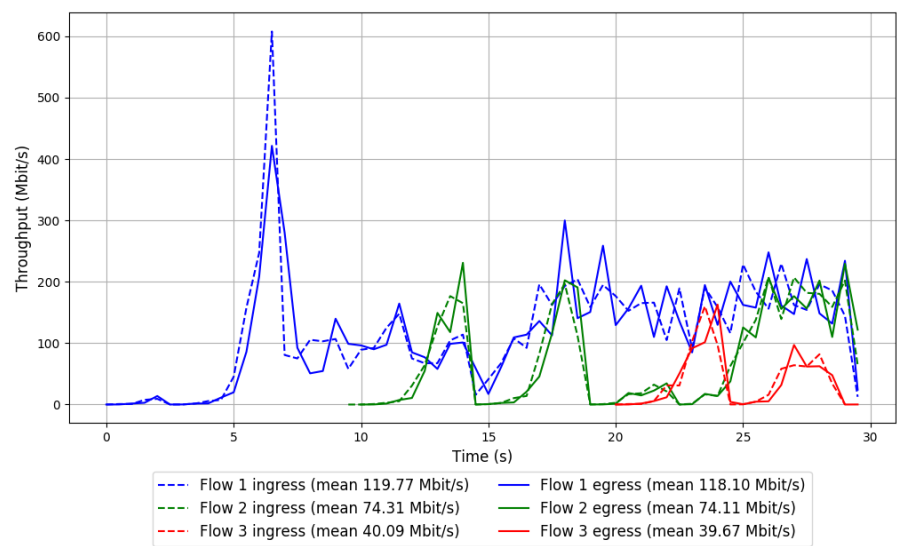
-- Flow 3:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 167.344 ms

Loss rate: 1.32%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-21 09:01:28

End at: 2017-12-21 09:01:58

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2017-12-21 09:17:14

End at: 2017-12-21 09:17:44

Below is generated by plot.py at 2017-12-21 11:45:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.16 Mbit/s

95th percentile per-packet one-way delay: 224.521 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 176.96 Mbit/s

95th percentile per-packet one-way delay: 201.769 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 196.58 Mbit/s

95th percentile per-packet one-way delay: 247.214 ms

Loss rate: 0.70%

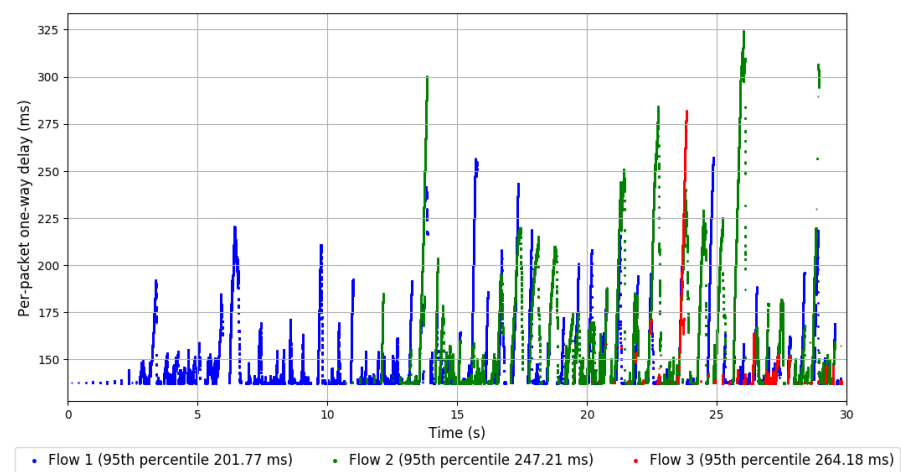
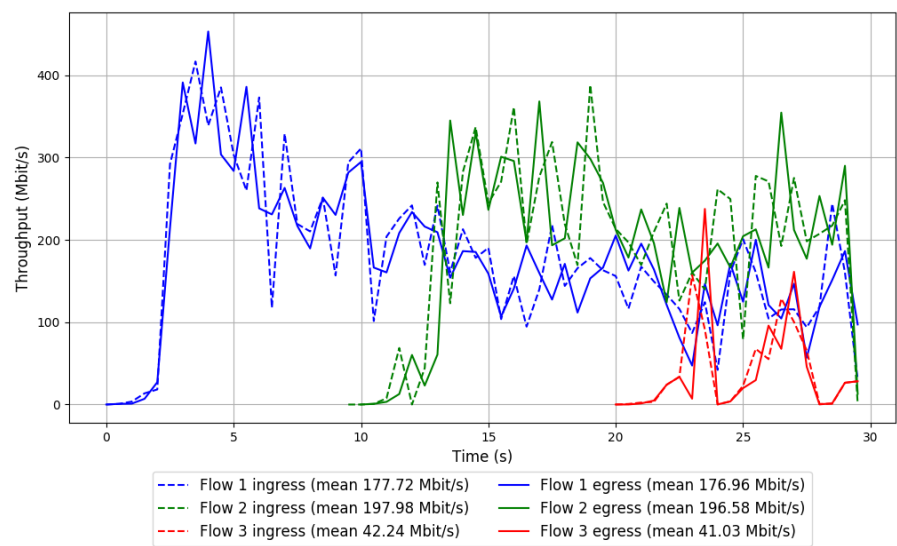
-- Flow 3:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 264.178 ms

Loss rate: 2.86%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-21 09:33:40

End at: 2017-12-21 09:34:10

Below is generated by plot.py at 2017-12-21 11:45:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.68 Mbit/s

95th percentile per-packet one-way delay: 237.085 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 245.501 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 166.335 ms

Loss rate: 0.02%

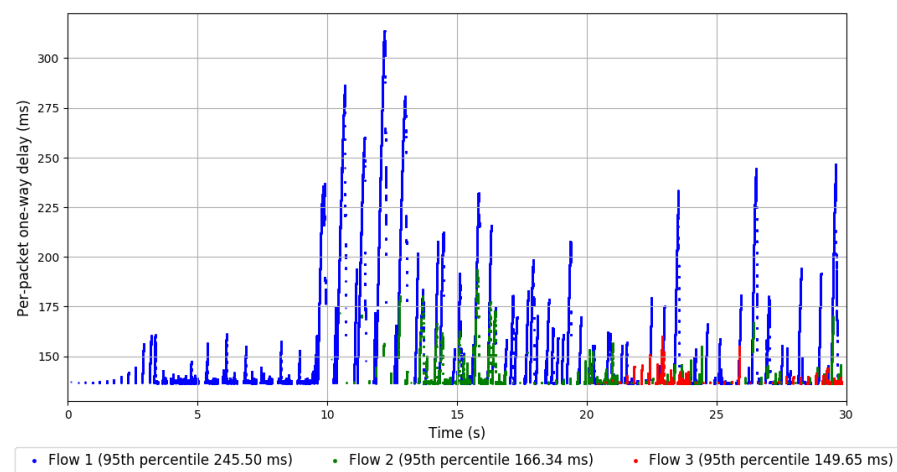
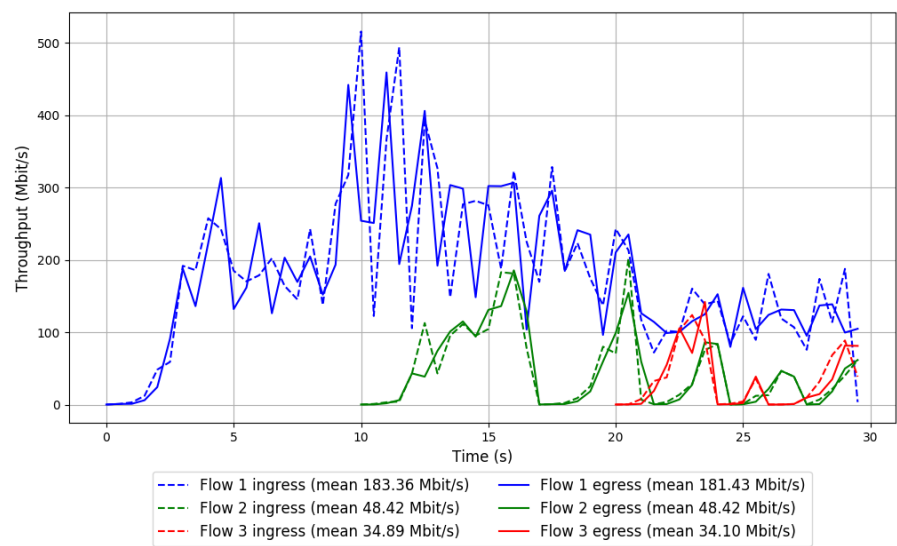
-- Flow 3:

Average throughput: 34.10 Mbit/s

95th percentile per-packet one-way delay: 149.650 ms

Loss rate: 2.28%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-21 09:49:53

End at: 2017-12-21 09:50:23

Below is generated by plot.py at 2017-12-21 11:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.65 Mbit/s

95th percentile per-packet one-way delay: 297.324 ms

Loss rate: 4.60%

-- Flow 1:

Average throughput: 190.39 Mbit/s

95th percentile per-packet one-way delay: 207.726 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 150.84 Mbit/s

95th percentile per-packet one-way delay: 347.118 ms

Loss rate: 8.05%

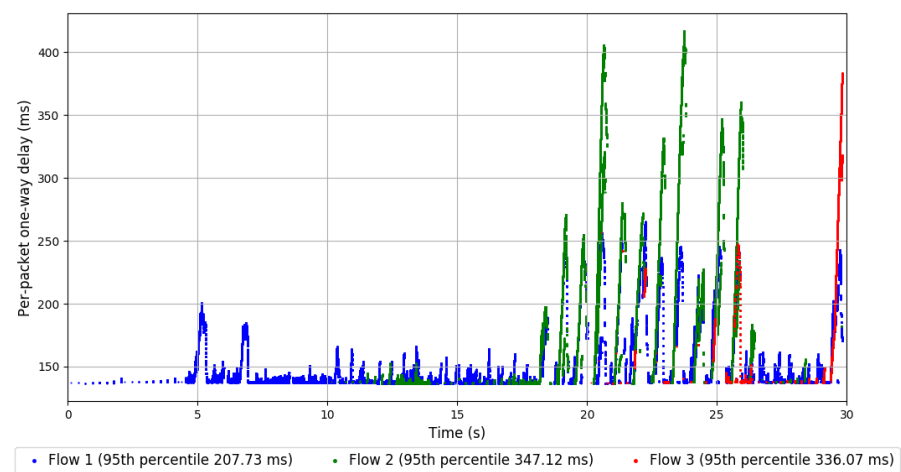
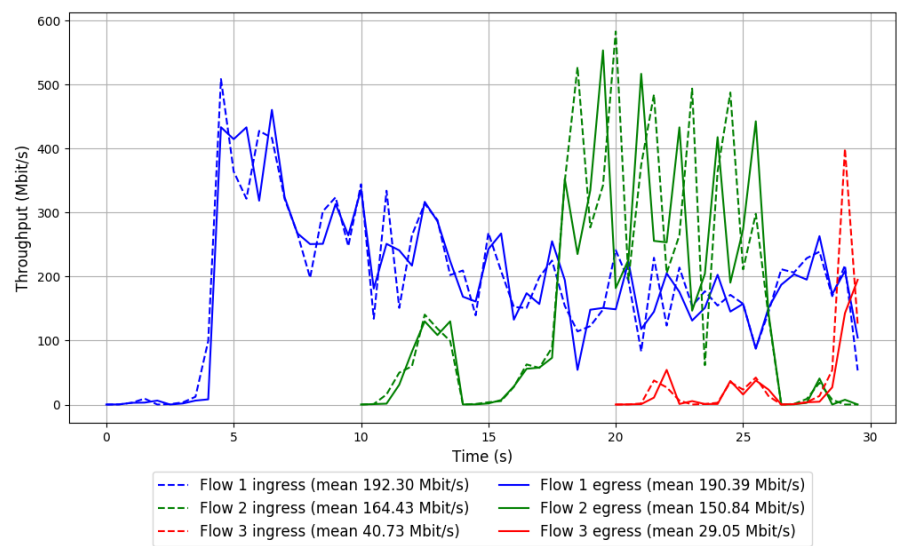
-- Flow 3:

Average throughput: 29.05 Mbit/s

95th percentile per-packet one-way delay: 336.071 ms

Loss rate: 28.69%

Run 10: Report of Verus — Data Link

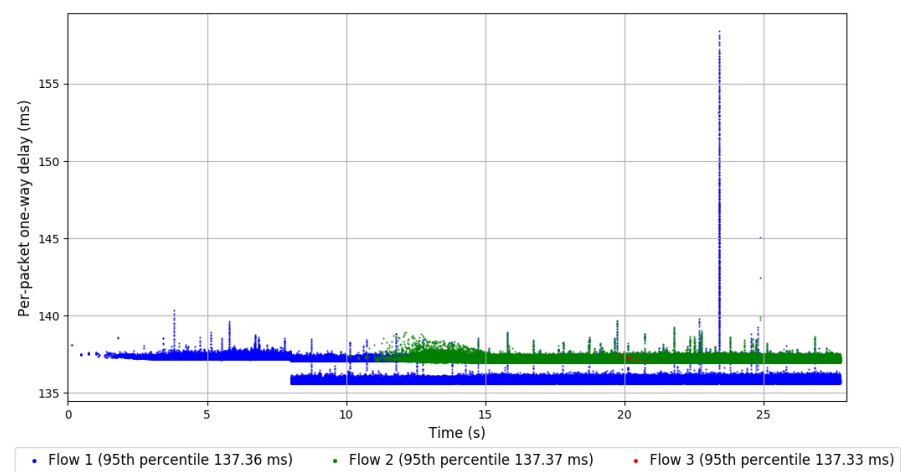
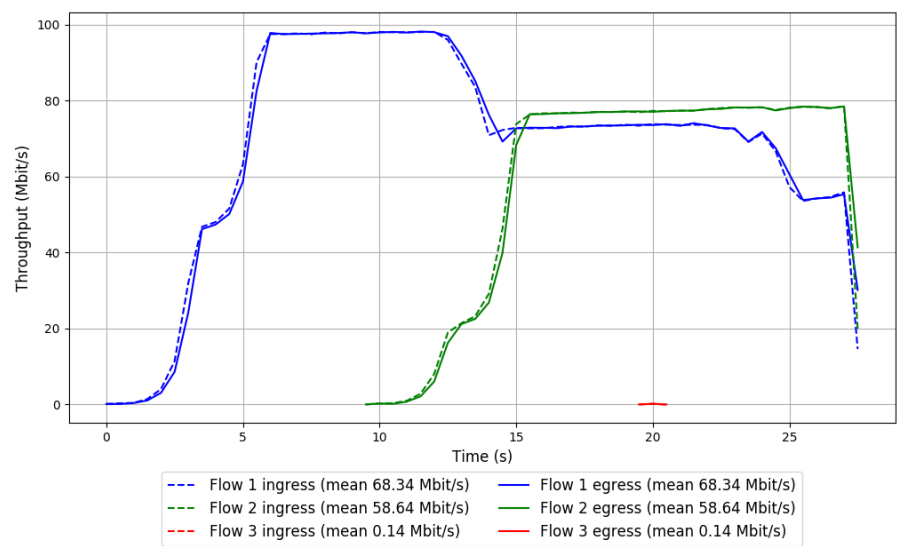


```
Run 1: Statistics of Copa

Start at: 2017-12-21 07:39:14
End at: 2017-12-21 07:39:44

# Below is generated by plot.py at 2017-12-21 11:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.44 Mbit/s
95th percentile per-packet one-way delay: 137.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.34 Mbit/s
95th percentile per-packet one-way delay: 137.362 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 137.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 137.334 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-21 07:55:07

End at: 2017-12-21 07:55:37

Below is generated by plot.py at 2017-12-21 11:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.35 Mbit/s

95th percentile per-packet one-way delay: 137.383 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 137.329 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 186.499 ms

Loss rate: 46.17%

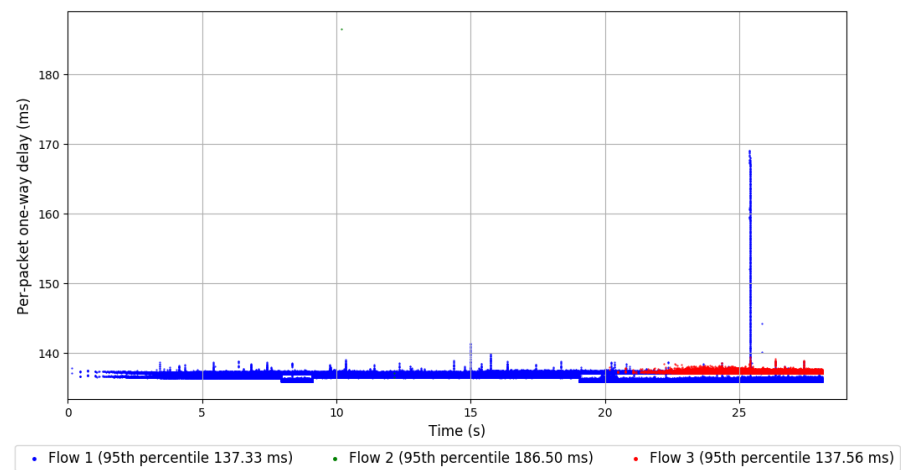
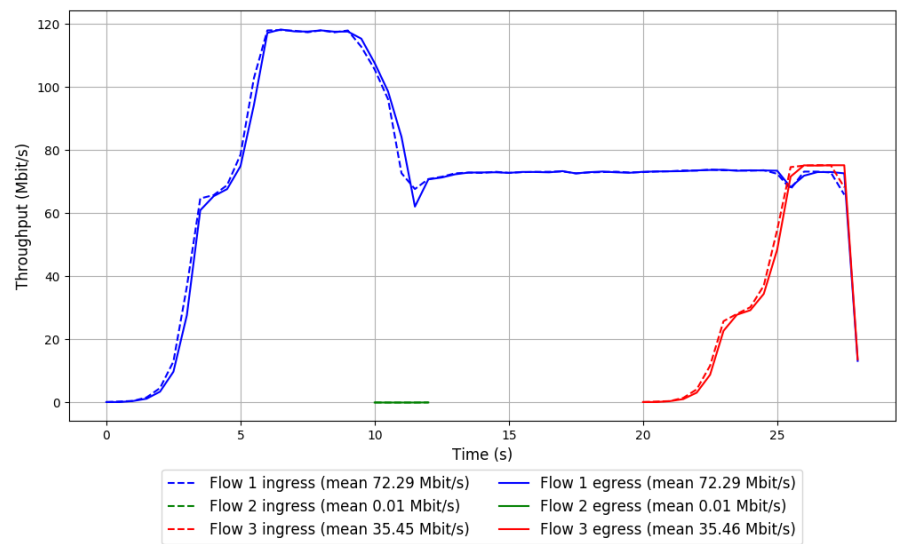
-- Flow 3:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 137.563 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-21 08:11:19

End at: 2017-12-21 08:11:49

Below is generated by plot.py at 2017-12-21 11:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.21 Mbit/s

95th percentile per-packet one-way delay: 137.259 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 137.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 137.313 ms

Loss rate: 0.00%

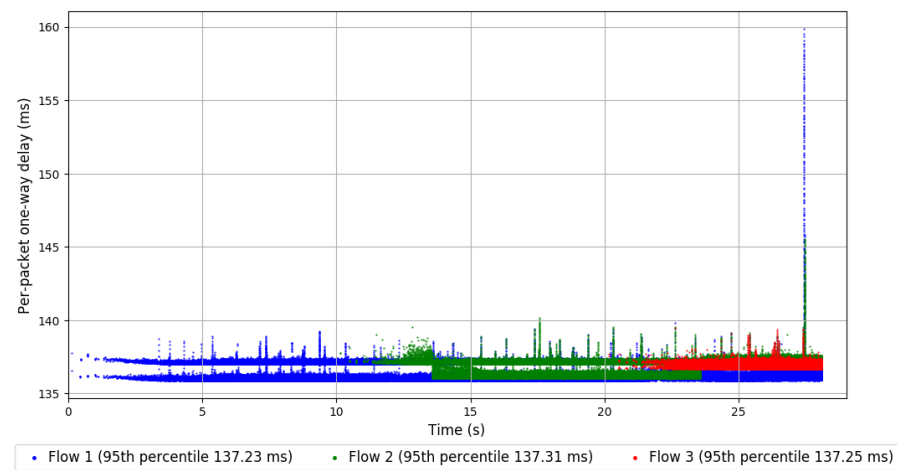
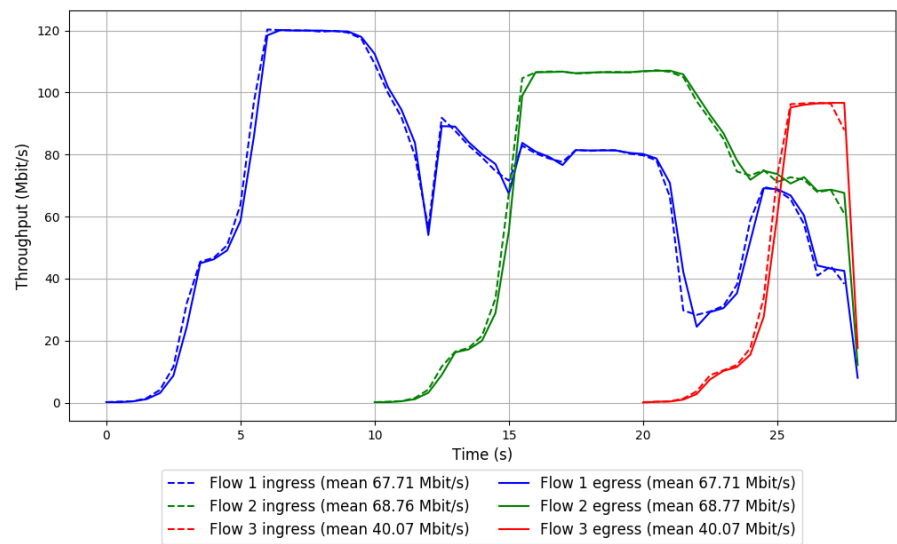
-- Flow 3:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 137.251 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-21 08:27:09

End at: 2017-12-21 08:27:39

Below is generated by plot.py at 2017-12-21 11:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.78 Mbit/s

95th percentile per-packet one-way delay: 163.783 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 163.769 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 163.791 ms

Loss rate: 0.00%

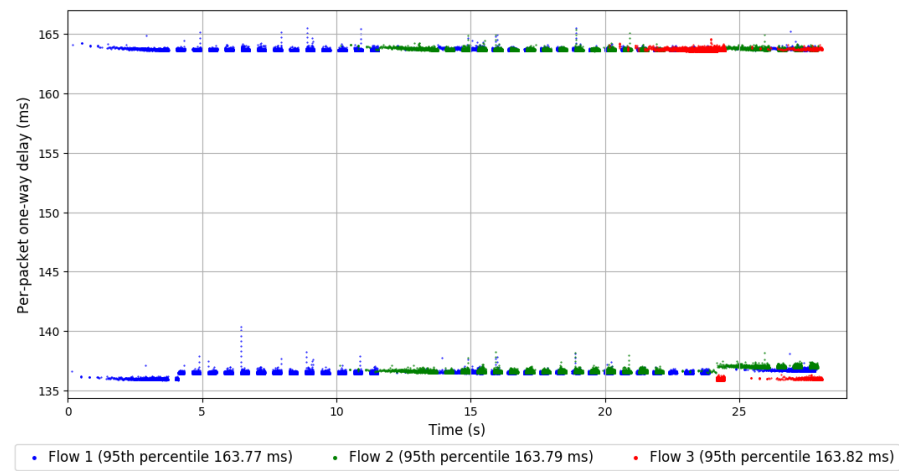
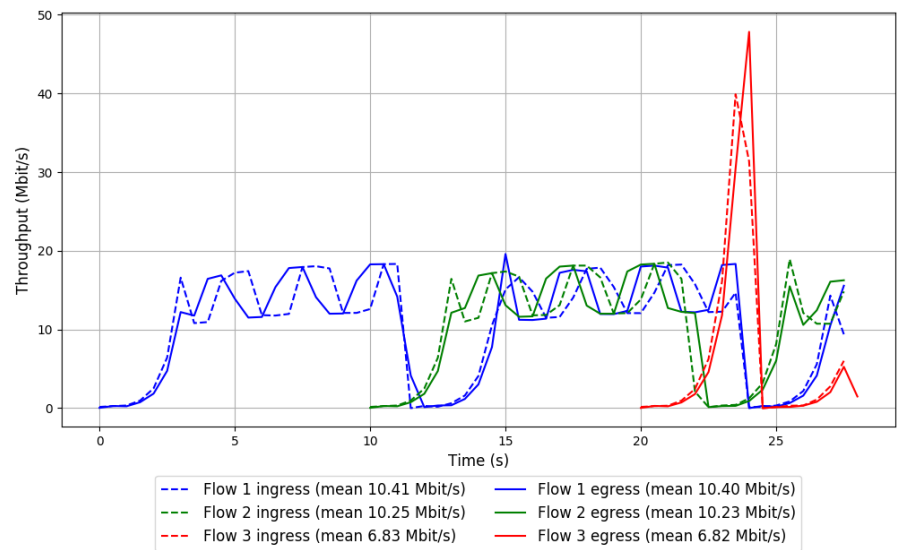
-- Flow 3:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 163.824 ms

Loss rate: 0.44%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-21 08:42:40

End at: 2017-12-21 08:43:10

Below is generated by plot.py at 2017-12-21 11:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 163.699 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 162.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 164.223 ms

Loss rate: 0.00%

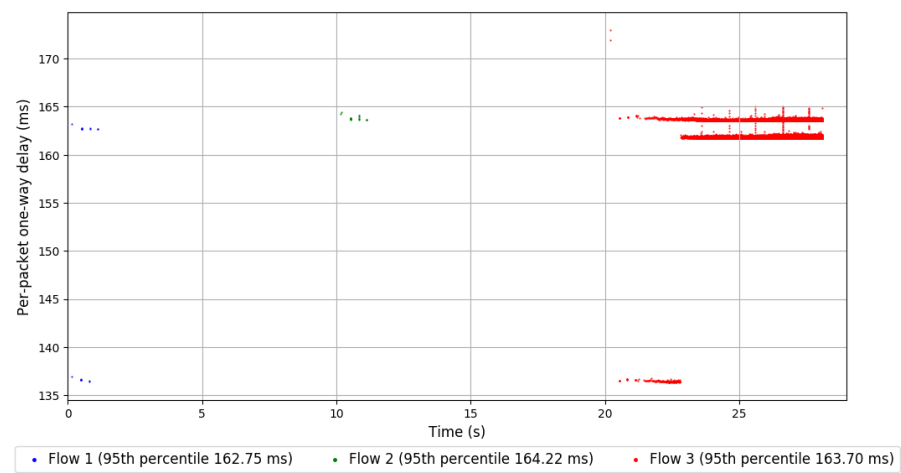
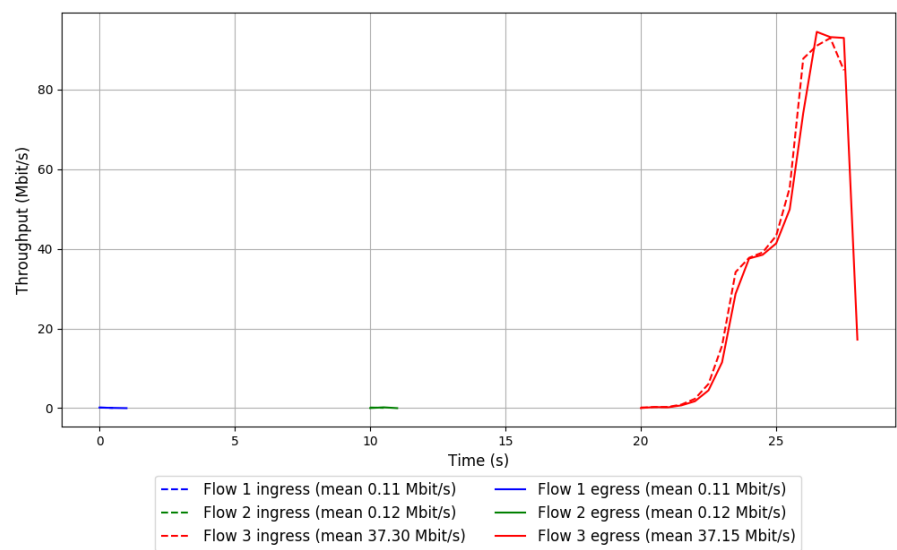
-- Flow 3:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 163.699 ms

Loss rate: 0.84%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-21 08:58:21

End at: 2017-12-21 08:58:51

Below is generated by plot.py at 2017-12-21 11:45:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 137.356 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 137.298 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.01 Mbit/s

95th percentile per-packet one-way delay: 162.161 ms

Loss rate: 0.03%

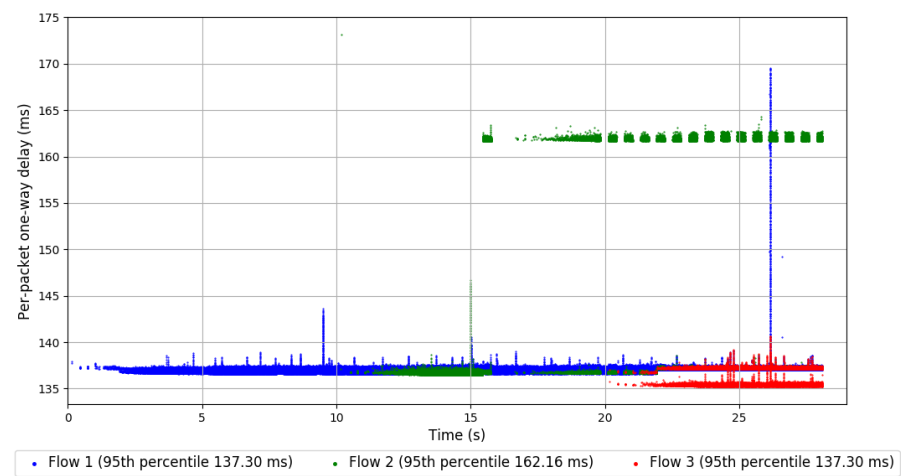
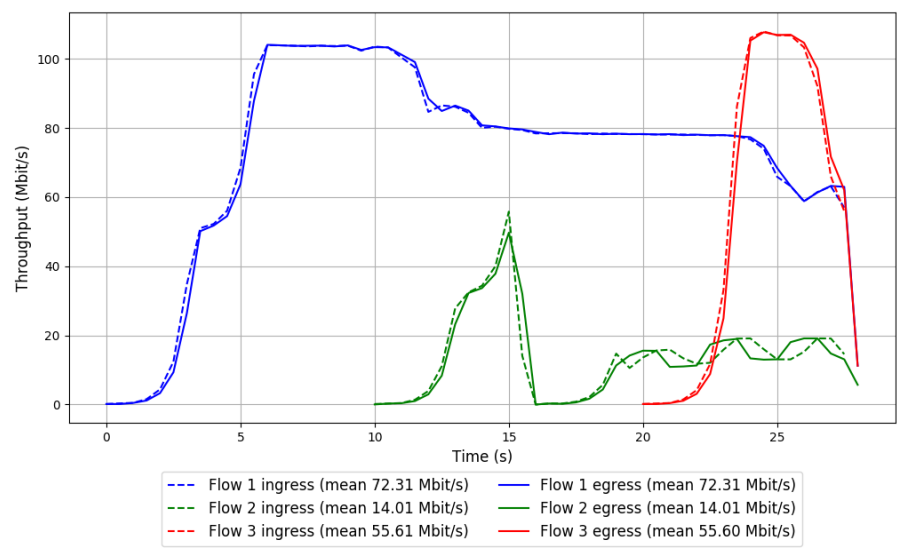
-- Flow 3:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 137.303 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-21 09:14:09

End at: 2017-12-21 09:14:39

Below is generated by plot.py at 2017-12-21 11:45:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 137.370 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 137.365 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.16 Mbit/s

95th percentile per-packet one-way delay: 137.390 ms

Loss rate: 0.00%

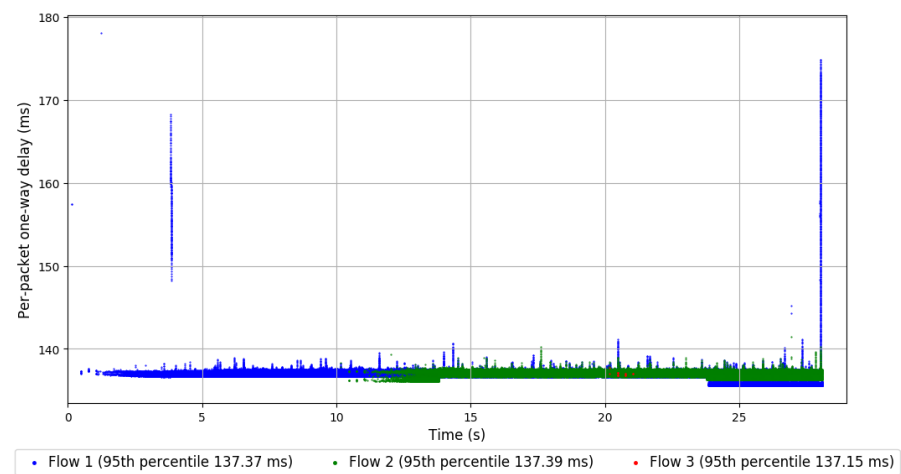
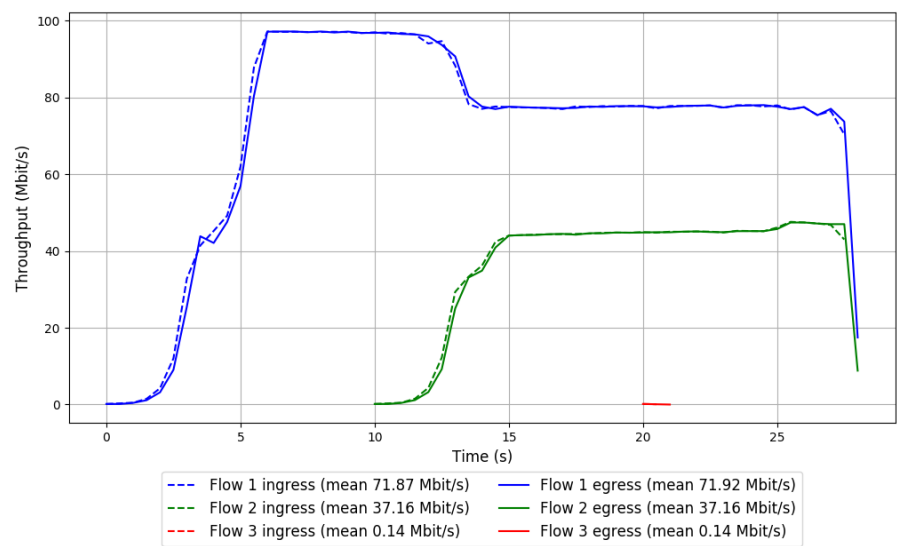
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 137.145 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-21 09:30:34

End at: 2017-12-21 09:31:04

Below is generated by plot.py at 2017-12-21 11:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.59 Mbit/s

95th percentile per-packet one-way delay: 136.612 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.71 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 0.00%

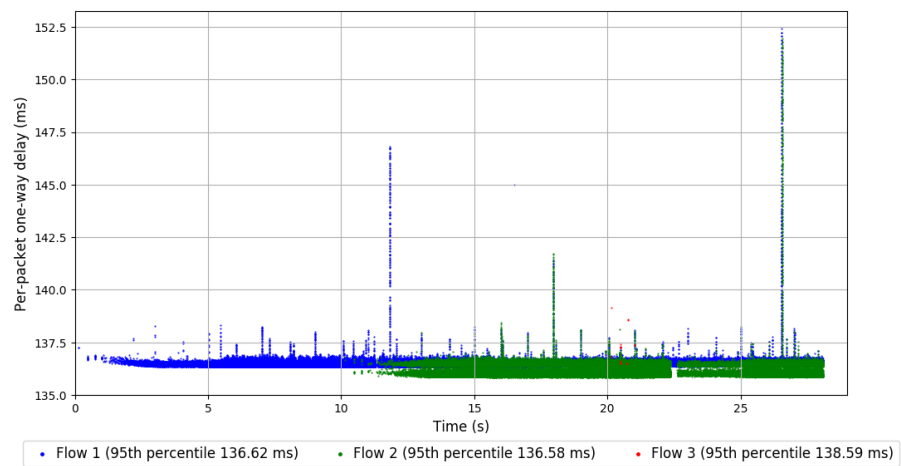
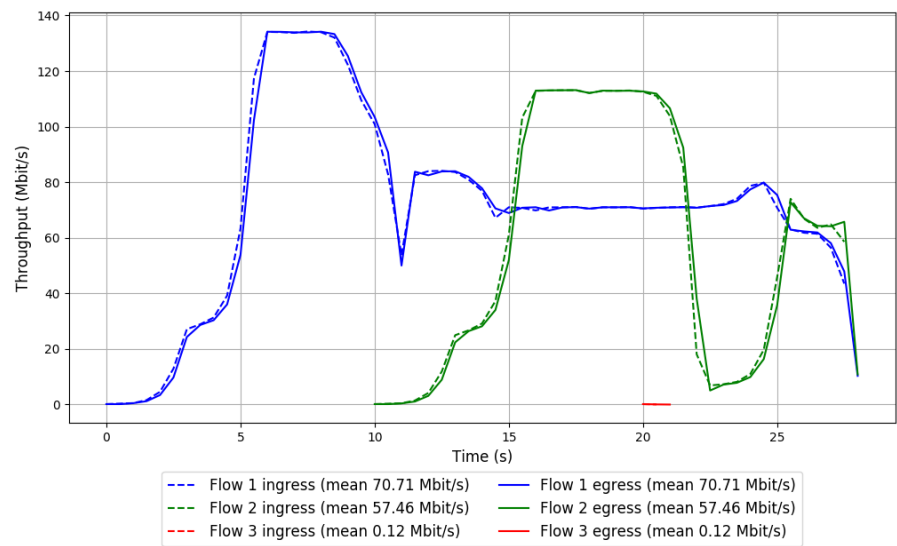
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 138.592 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-21 09:46:45

End at: 2017-12-21 09:47:15

Below is generated by plot.py at 2017-12-21 11:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.62 Mbit/s

95th percentile per-packet one-way delay: 137.239 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 137.283 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 0.00%

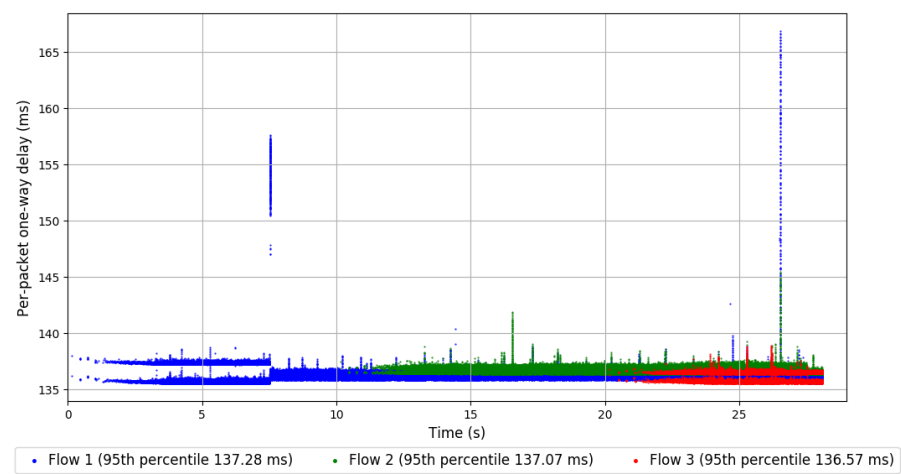
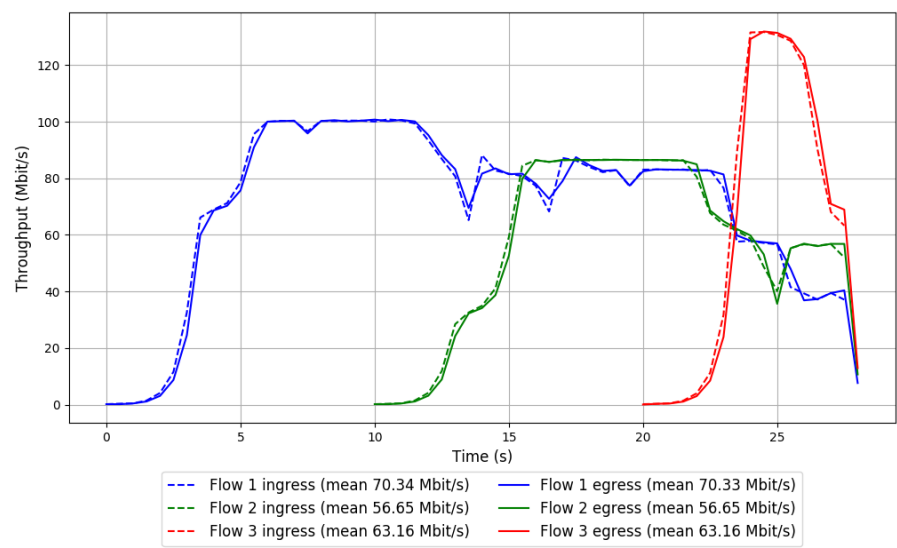
-- Flow 3:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 136.572 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-21 10:02:56

End at: 2017-12-21 10:03:26

Below is generated by plot.py at 2017-12-21 11:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 137.241 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 137.245 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 137.273 ms

Loss rate: 0.00%

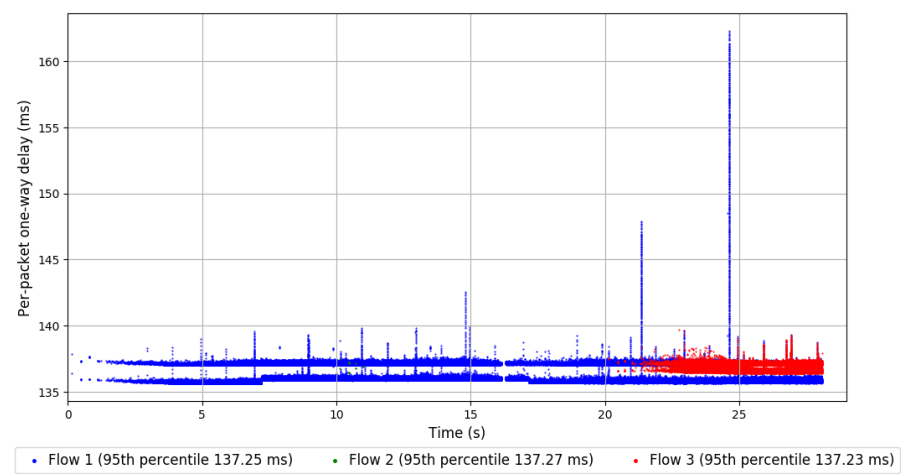
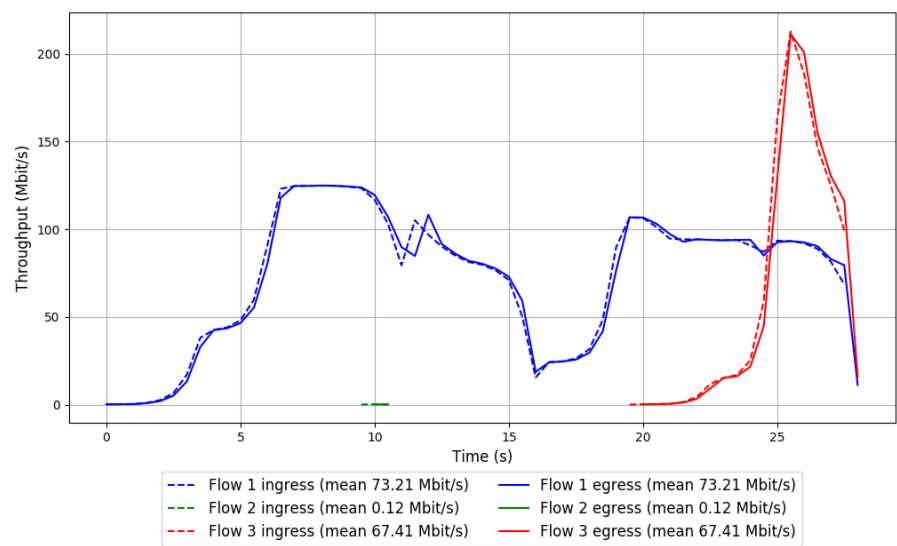
-- Flow 3:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 137.228 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

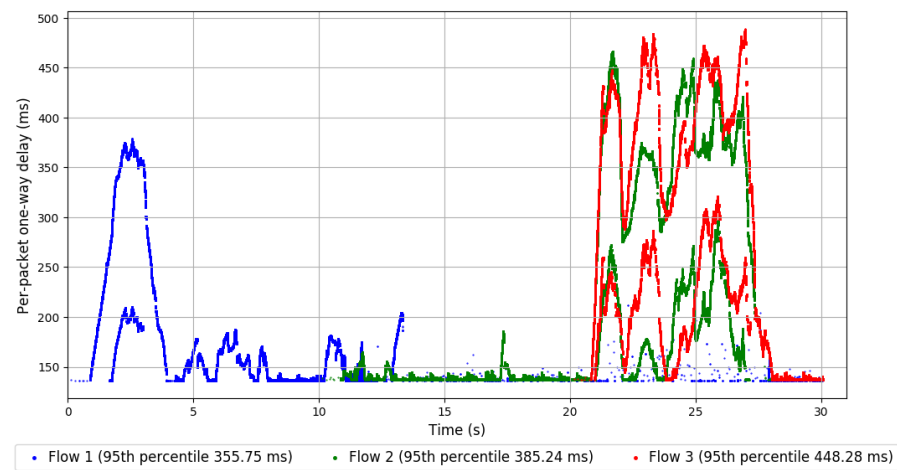
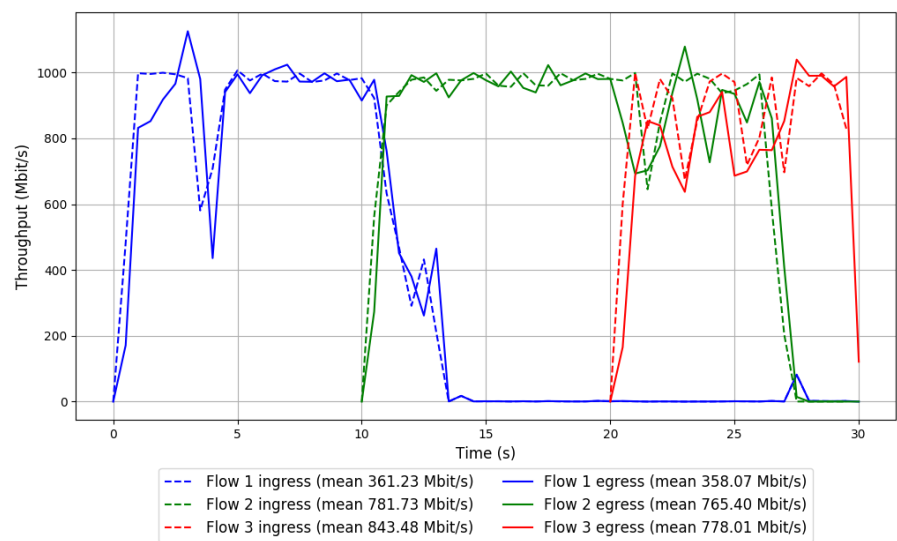


```
Run 1: Statistics of FillP

Start at: 2017-12-21 07:32:39
End at: 2017-12-21 07:33:09

# Below is generated by plot.py at 2017-12-21 12:05:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1123.42 Mbit/s
95th percentile per-packet one-way delay: 398.389 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 358.07 Mbit/s
95th percentile per-packet one-way delay: 355.747 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 765.40 Mbit/s
95th percentile per-packet one-way delay: 385.242 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 778.01 Mbit/s
95th percentile per-packet one-way delay: 448.276 ms
Loss rate: 7.77%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2017-12-21 07:47:38

End at: 2017-12-21 07:48:08

Below is generated by plot.py at 2017-12-21 12:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1622.74 Mbit/s

95th percentile per-packet one-way delay: 232.988 ms

Loss rate: 6.15%

-- Flow 1:

Average throughput: 892.99 Mbit/s

95th percentile per-packet one-way delay: 210.564 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 801.89 Mbit/s

95th percentile per-packet one-way delay: 217.070 ms

Loss rate: 6.15%

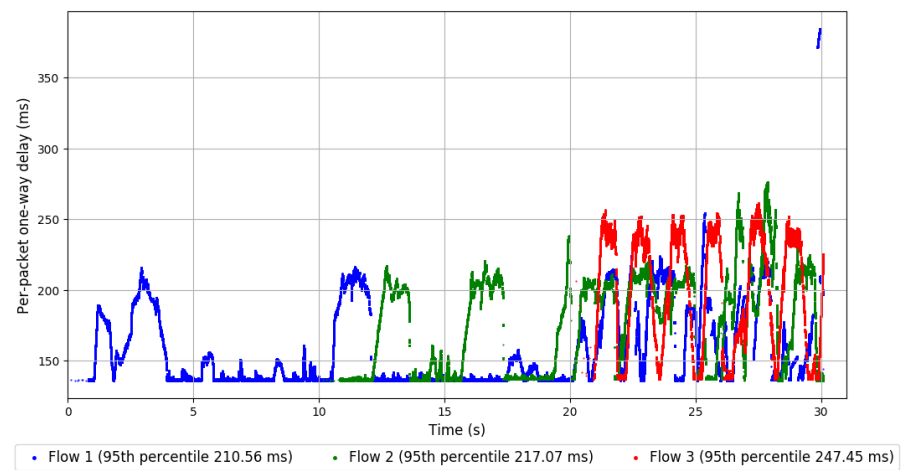
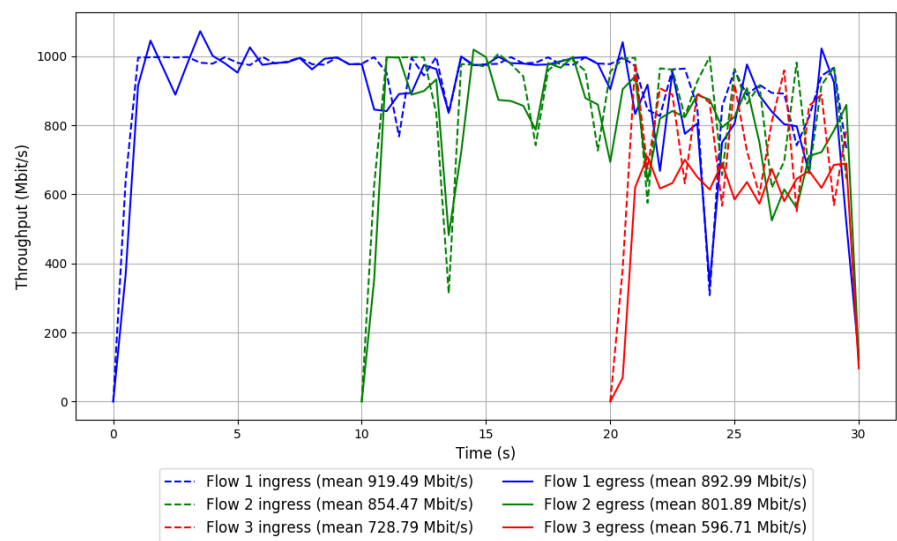
-- Flow 3:

Average throughput: 596.71 Mbit/s

95th percentile per-packet one-way delay: 247.450 ms

Loss rate: 18.69%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2017-12-21 08:03:39

End at: 2017-12-21 08:04:09

Below is generated by plot.py at 2017-12-21 12:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1465.38 Mbit/s

95th percentile per-packet one-way delay: 247.967 ms

Loss rate: 10.34%

-- Flow 1:

Average throughput: 742.83 Mbit/s

95th percentile per-packet one-way delay: 246.773 ms

Loss rate: 9.95%

-- Flow 2:

Average throughput: 769.96 Mbit/s

95th percentile per-packet one-way delay: 239.417 ms

Loss rate: 8.24%

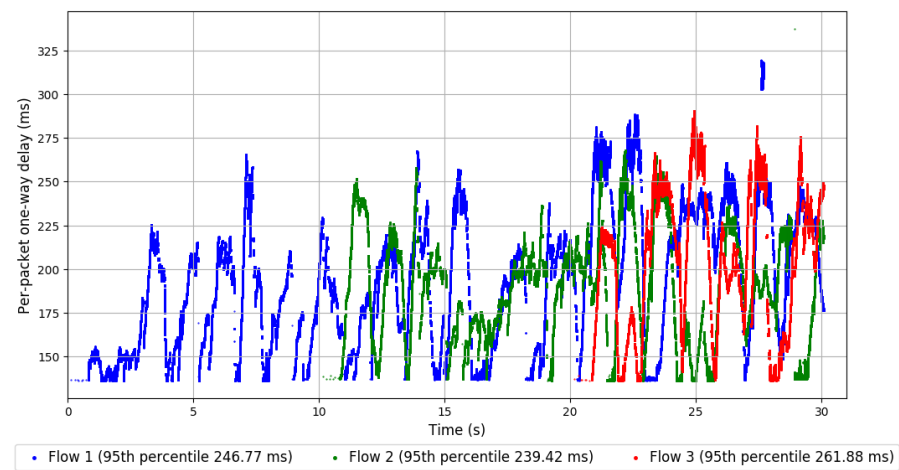
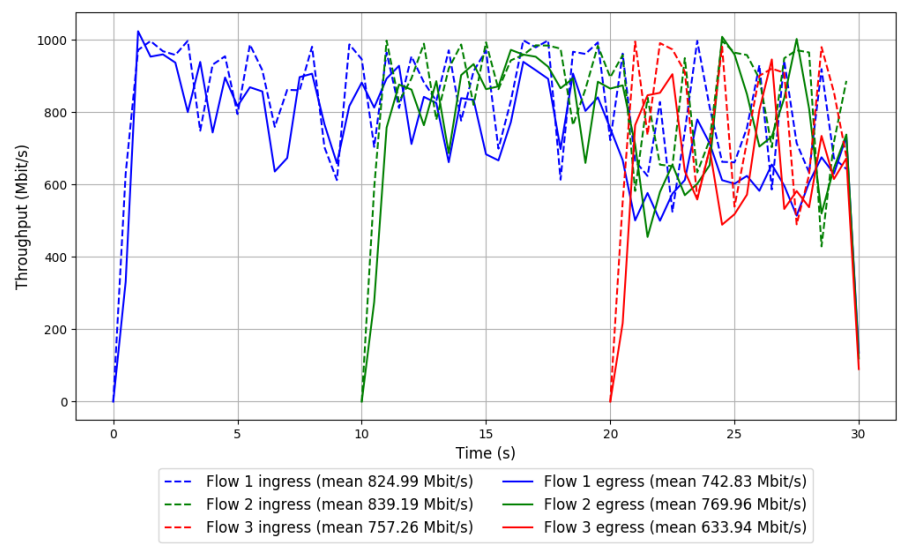
-- Flow 3:

Average throughput: 633.94 Mbit/s

95th percentile per-packet one-way delay: 261.876 ms

Loss rate: 16.26%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2017-12-21 08:19:56

End at: 2017-12-21 08:20:26

Below is generated by plot.py at 2017-12-21 12:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1462.35 Mbit/s

95th percentile per-packet one-way delay: 347.983 ms

Loss rate: 11.74%

-- Flow 1:

Average throughput: 797.90 Mbit/s

95th percentile per-packet one-way delay: 342.230 ms

Loss rate: 7.93%

-- Flow 2:

Average throughput: 685.43 Mbit/s

95th percentile per-packet one-way delay: 359.110 ms

Loss rate: 14.88%

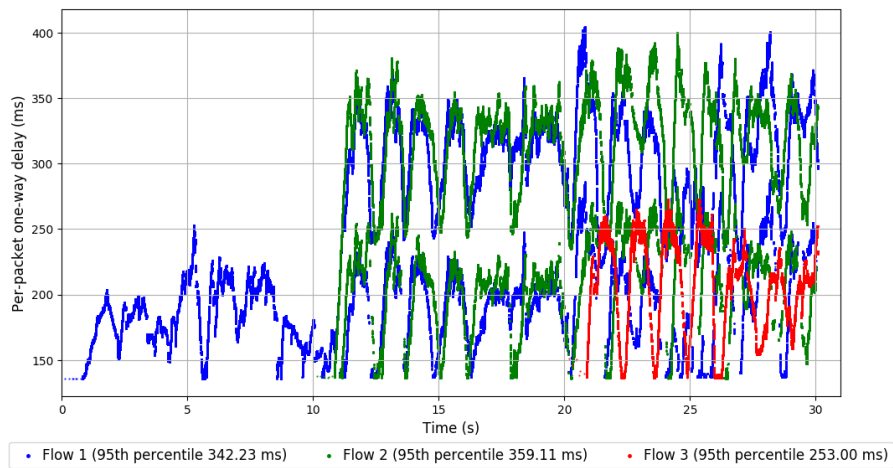
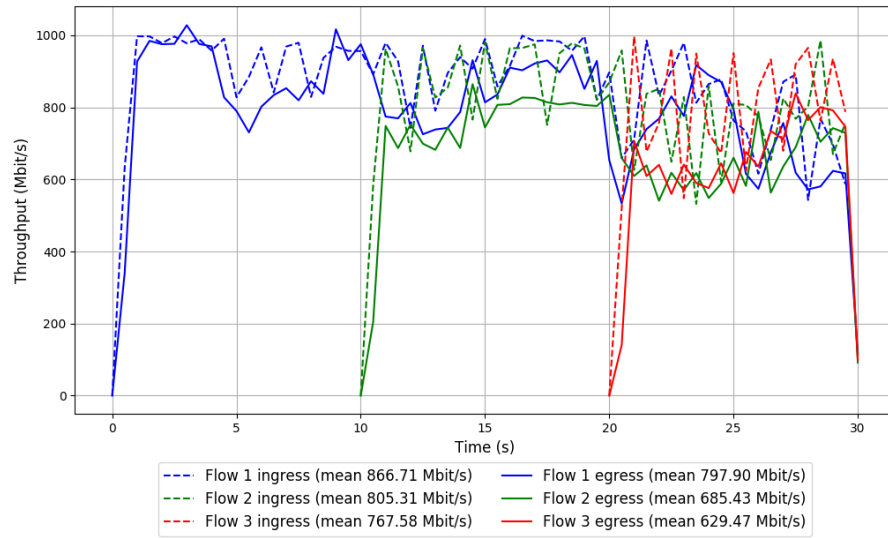
-- Flow 3:

Average throughput: 629.47 Mbit/s

95th percentile per-packet one-way delay: 252.998 ms

Loss rate: 18.10%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2017-12-21 08:35:27

End at: 2017-12-21 08:35:57

Below is generated by plot.py at 2017-12-21 12:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1398.43 Mbit/s

95th percentile per-packet one-way delay: 354.381 ms

Loss rate: 10.26%

-- Flow 1:

Average throughput: 752.60 Mbit/s

95th percentile per-packet one-way delay: 350.933 ms

Loss rate: 11.33%

-- Flow 2:

Average throughput: 638.52 Mbit/s

95th percentile per-packet one-way delay: 366.319 ms

Loss rate: 7.33%

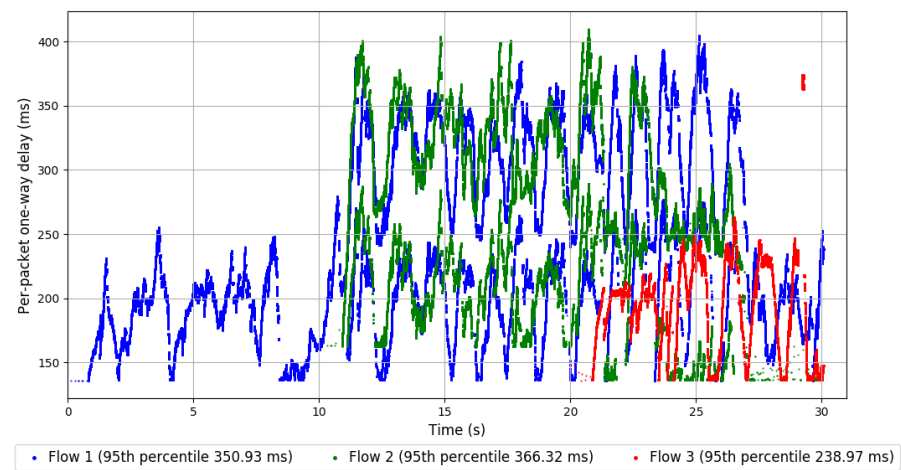
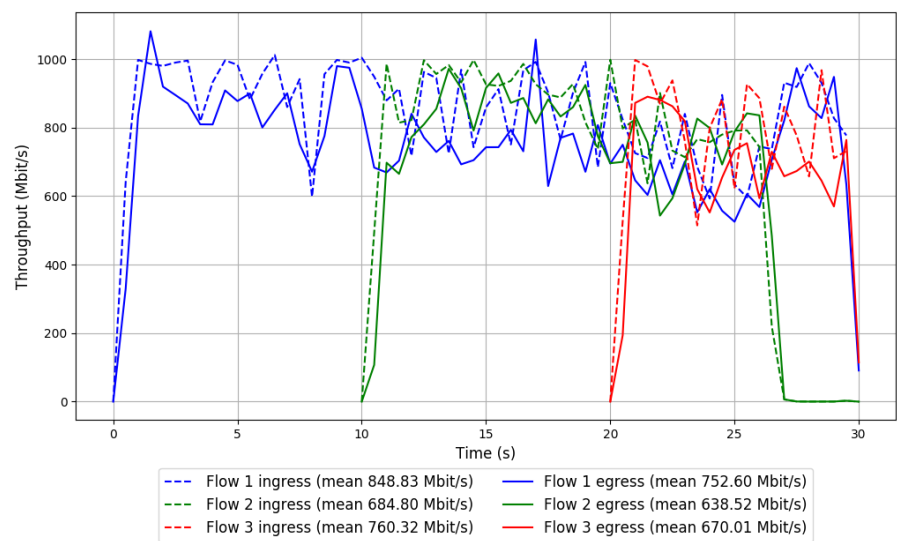
-- Flow 3:

Average throughput: 670.01 Mbit/s

95th percentile per-packet one-way delay: 238.971 ms

Loss rate: 11.97%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2017-12-21 08:51:02

End at: 2017-12-21 08:51:32

Below is generated by plot.py at 2017-12-21 12:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1431.89 Mbit/s

95th percentile per-packet one-way delay: 357.903 ms

Loss rate: 9.01%

-- Flow 1:

Average throughput: 776.76 Mbit/s

95th percentile per-packet one-way delay: 360.751 ms

Loss rate: 7.80%

-- Flow 2:

Average throughput: 731.76 Mbit/s

95th percentile per-packet one-way delay: 257.821 ms

Loss rate: 8.77%

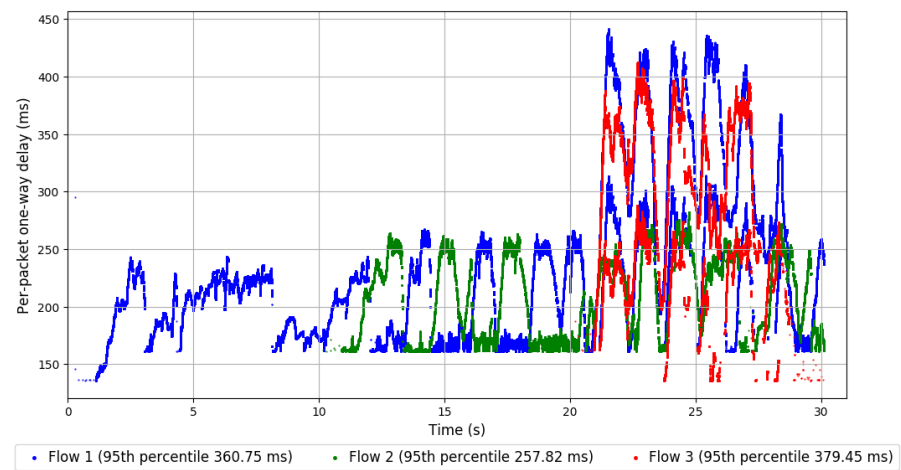
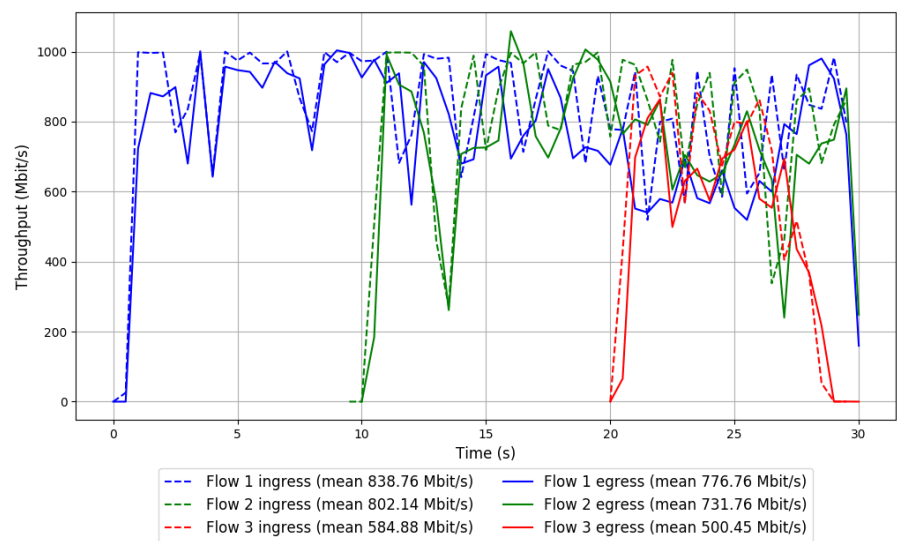
-- Flow 3:

Average throughput: 500.45 Mbit/s

95th percentile per-packet one-way delay: 379.452 ms

Loss rate: 14.88%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2017-12-21 09:06:40

End at: 2017-12-21 09:07:10

Below is generated by plot.py at 2017-12-21 12:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1425.75 Mbit/s

95th percentile per-packet one-way delay: 354.332 ms

Loss rate: 7.62%

-- Flow 1:

Average throughput: 654.39 Mbit/s

95th percentile per-packet one-way delay: 361.967 ms

Loss rate: 9.51%

-- Flow 2:

Average throughput: 790.05 Mbit/s

95th percentile per-packet one-way delay: 356.188 ms

Loss rate: 5.84%

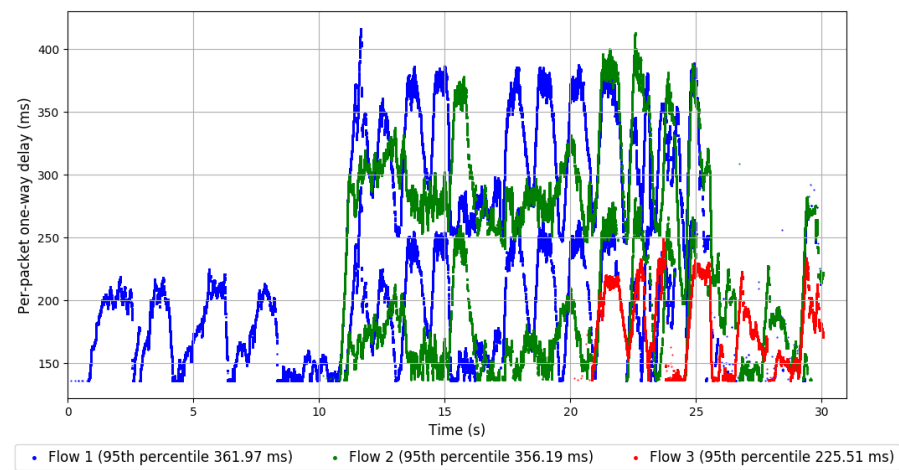
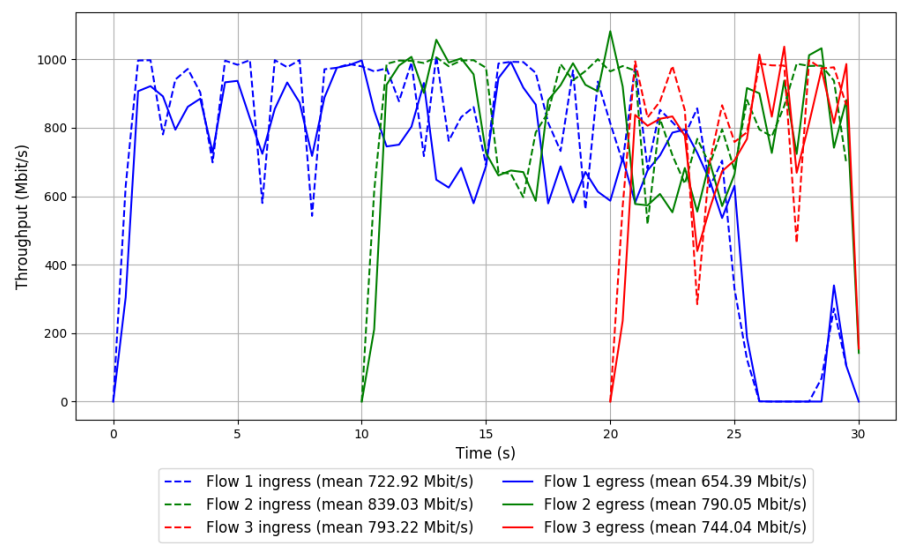
-- Flow 3:

Average throughput: 744.04 Mbit/s

95th percentile per-packet one-way delay: 225.512 ms

Loss rate: 6.19%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2017-12-21 09:22:58

End at: 2017-12-21 09:23:28

Below is generated by plot.py at 2017-12-21 12:17:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 1586.50 Mbit/s

95th percentile per-packet one-way delay: 247.802 ms

Loss rate: 8.20%

-- Flow 1:

Average throughput: 806.83 Mbit/s

95th percentile per-packet one-way delay: 255.538 ms

Loss rate: 7.13%

-- Flow 2:

Average throughput: 813.89 Mbit/s

95th percentile per-packet one-way delay: 231.060 ms

Loss rate: 8.55%

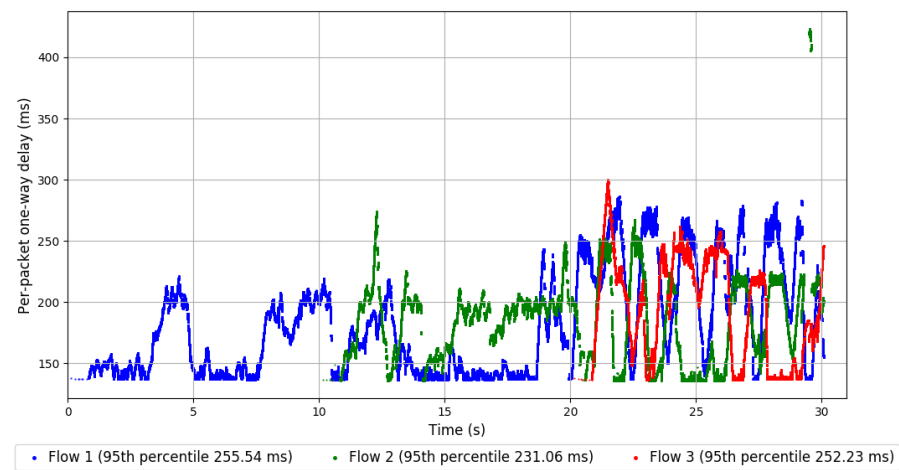
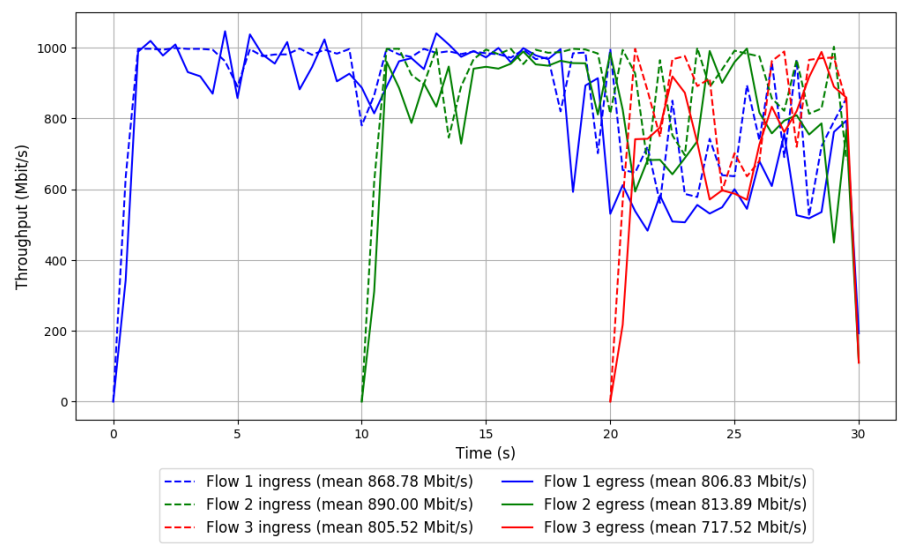
-- Flow 3:

Average throughput: 717.52 Mbit/s

95th percentile per-packet one-way delay: 252.230 ms

Loss rate: 10.92%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2017-12-21 09:39:11

End at: 2017-12-21 09:39:41

Below is generated by plot.py at 2017-12-21 12:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1564.76 Mbit/s

95th percentile per-packet one-way delay: 243.974 ms

Loss rate: 8.44%

-- Flow 1:

Average throughput: 853.62 Mbit/s

95th percentile per-packet one-way delay: 236.445 ms

Loss rate: 4.86%

-- Flow 2:

Average throughput: 775.40 Mbit/s

95th percentile per-packet one-way delay: 243.483 ms

Loss rate: 9.25%

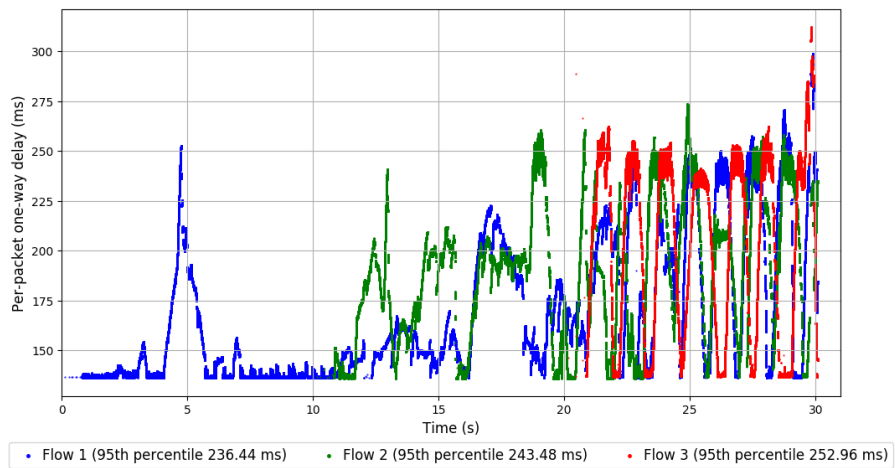
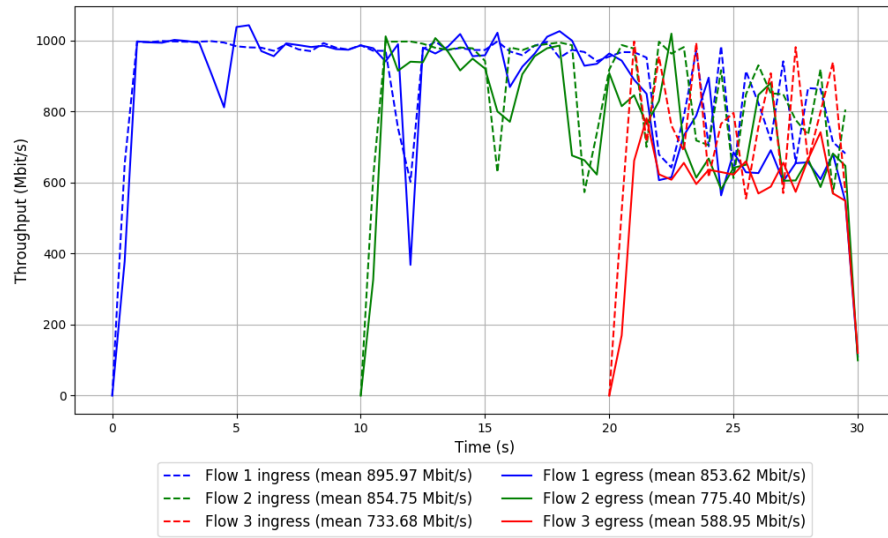
-- Flow 3:

Average throughput: 588.95 Mbit/s

95th percentile per-packet one-way delay: 252.963 ms

Loss rate: 19.75%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2017-12-21 09:55:28

End at: 2017-12-21 09:55:58

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 1508.59 Mbit/s

95th percentile per-packet one-way delay: 329.206 ms

Loss rate: 5.77%

-- Flow 1:

Average throughput: 800.03 Mbit/s

95th percentile per-packet one-way delay: 316.805 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 812.20 Mbit/s

95th percentile per-packet one-way delay: 239.080 ms

Loss rate: 6.83%

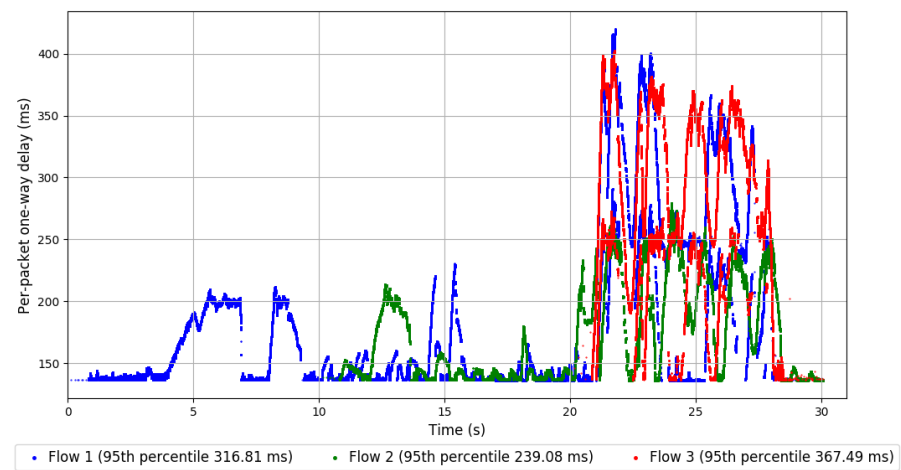
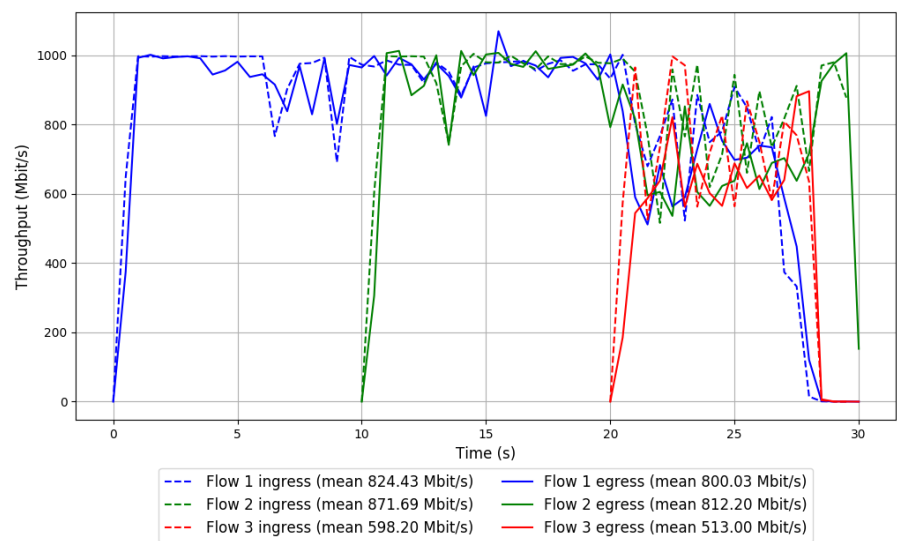
-- Flow 3:

Average throughput: 513.00 Mbit/s

95th percentile per-packet one-way delay: 367.490 ms

Loss rate: 14.32%

Run 10: Report of FillP — Data Link

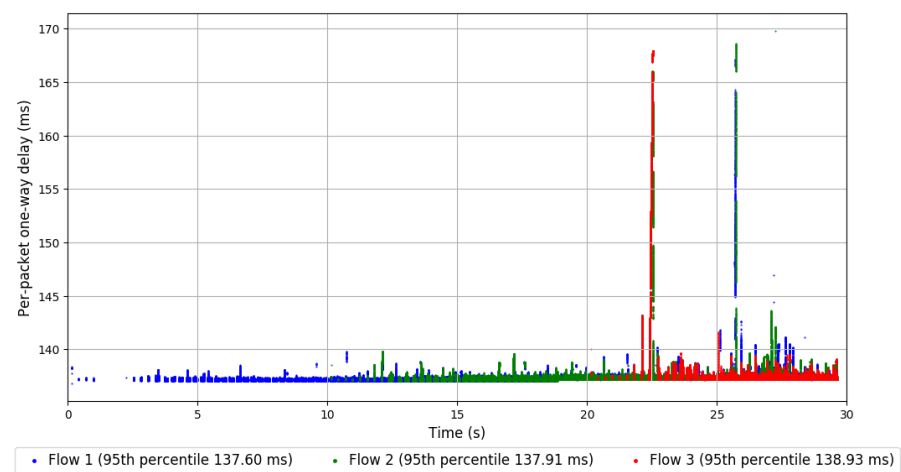
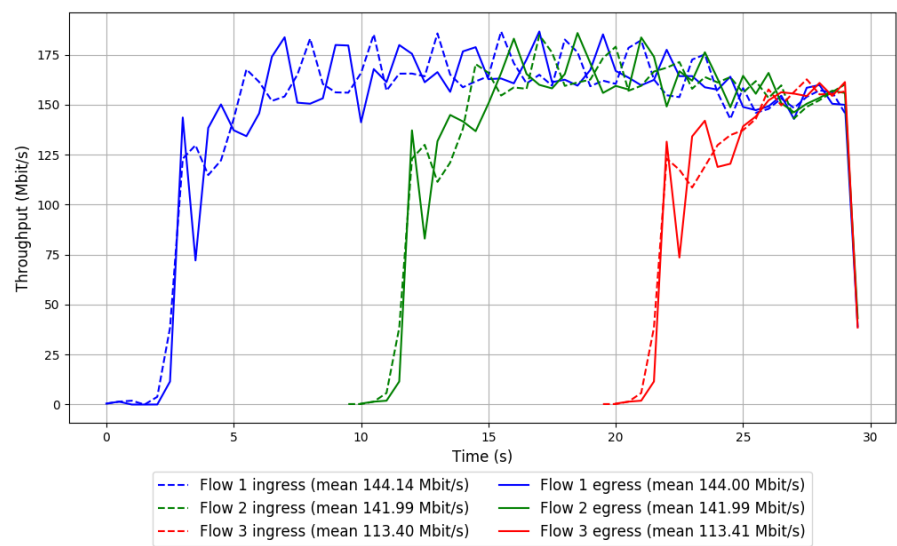


```
Run 1: Statistics of Indigo

Start at: 2017-12-21 07:40:15
End at: 2017-12-21 07:40:45

# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.33 Mbit/s
95th percentile per-packet one-way delay: 137.790 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 144.00 Mbit/s
95th percentile per-packet one-way delay: 137.603 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 141.99 Mbit/s
95th percentile per-packet one-way delay: 137.905 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.41 Mbit/s
95th percentile per-packet one-way delay: 138.925 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

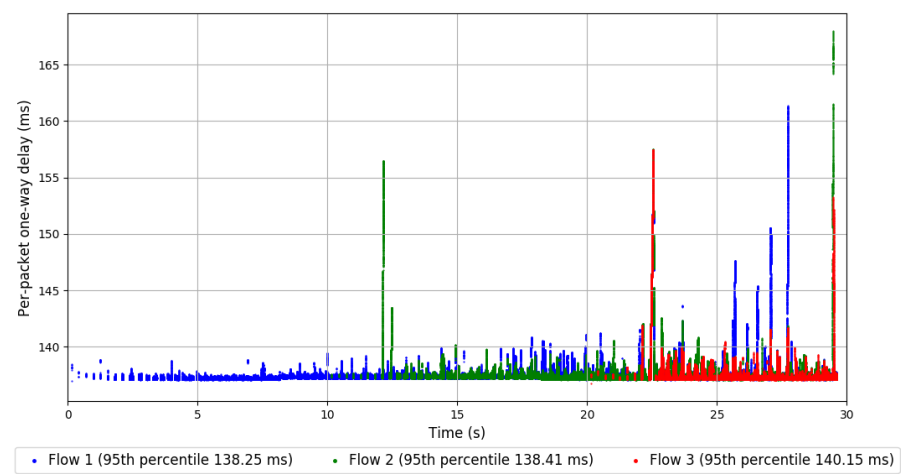
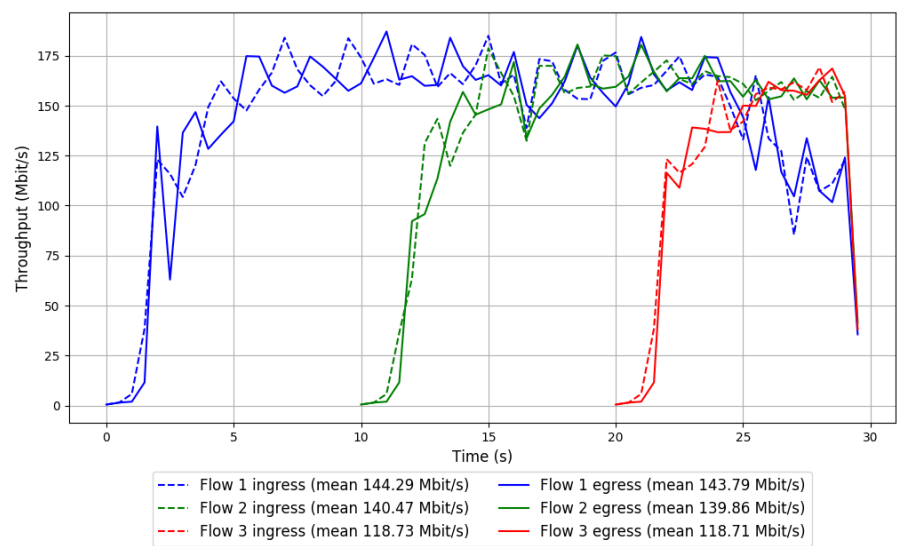


```
Run 2: Statistics of Indigo

Start at: 2017-12-21 07:56:06
End at: 2017-12-21 07:56:36

# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.25 Mbit/s
95th percentile per-packet one-way delay: 138.501 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 143.79 Mbit/s
95th percentile per-packet one-way delay: 138.247 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 139.86 Mbit/s
95th percentile per-packet one-way delay: 138.414 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 118.71 Mbit/s
95th percentile per-packet one-way delay: 140.146 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-21 08:12:23

End at: 2017-12-21 08:12:53

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.84 Mbit/s

95th percentile per-packet one-way delay: 138.016 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 148.27 Mbit/s

95th percentile per-packet one-way delay: 137.822 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 139.86 Mbit/s

95th percentile per-packet one-way delay: 138.108 ms

Loss rate: 0.03%

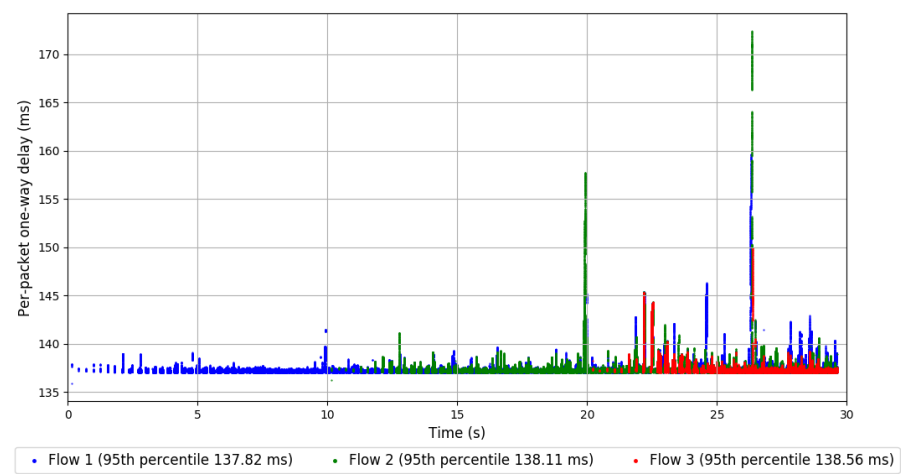
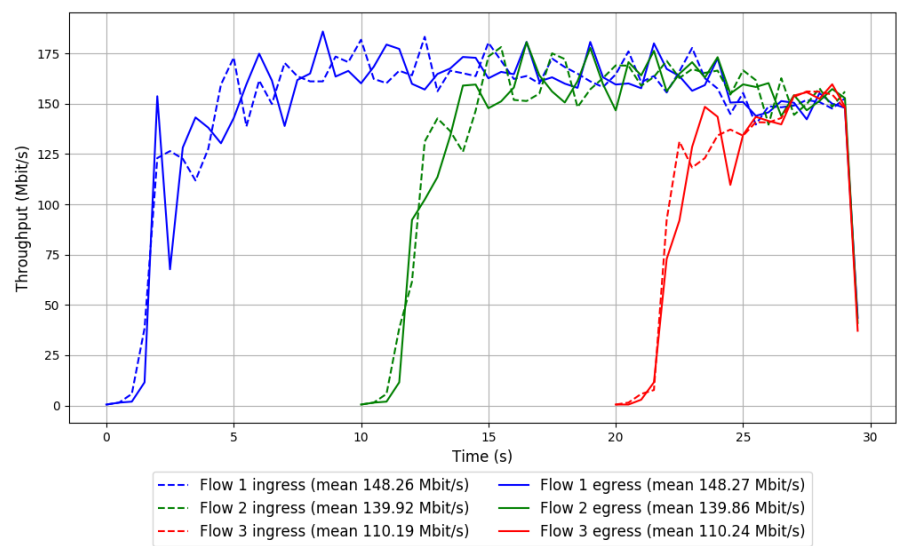
-- Flow 3:

Average throughput: 110.24 Mbit/s

95th percentile per-packet one-way delay: 138.560 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-21 08:28:00

End at: 2017-12-21 08:28:30

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.95 Mbit/s

95th percentile per-packet one-way delay: 164.669 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 139.63 Mbit/s

95th percentile per-packet one-way delay: 164.167 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 109.26 Mbit/s

95th percentile per-packet one-way delay: 165.982 ms

Loss rate: 0.22%

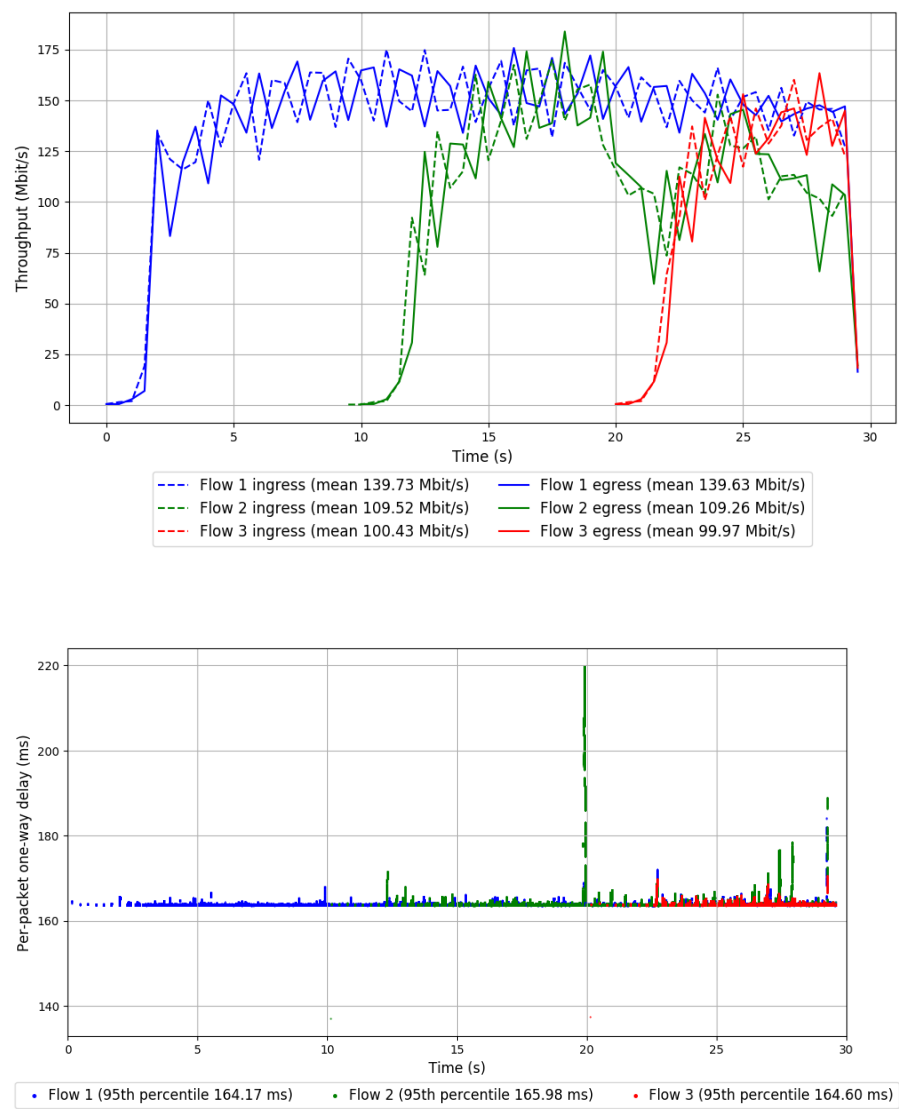
-- Flow 3:

Average throughput: 99.97 Mbit/s

95th percentile per-packet one-way delay: 164.600 ms

Loss rate: 0.49%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-21 08:43:31

End at: 2017-12-21 08:44:01

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.39 Mbit/s

95th percentile per-packet one-way delay: 163.760 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 105.53 Mbit/s

95th percentile per-packet one-way delay: 163.717 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 163.839 ms

Loss rate: 0.00%

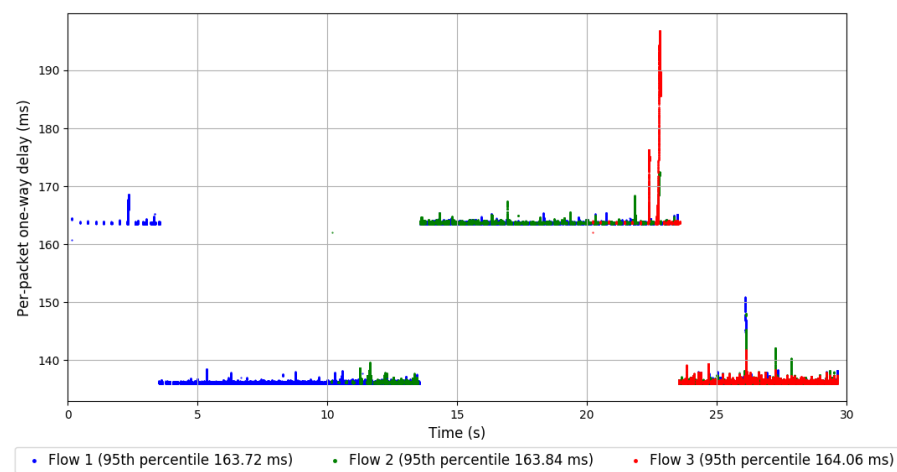
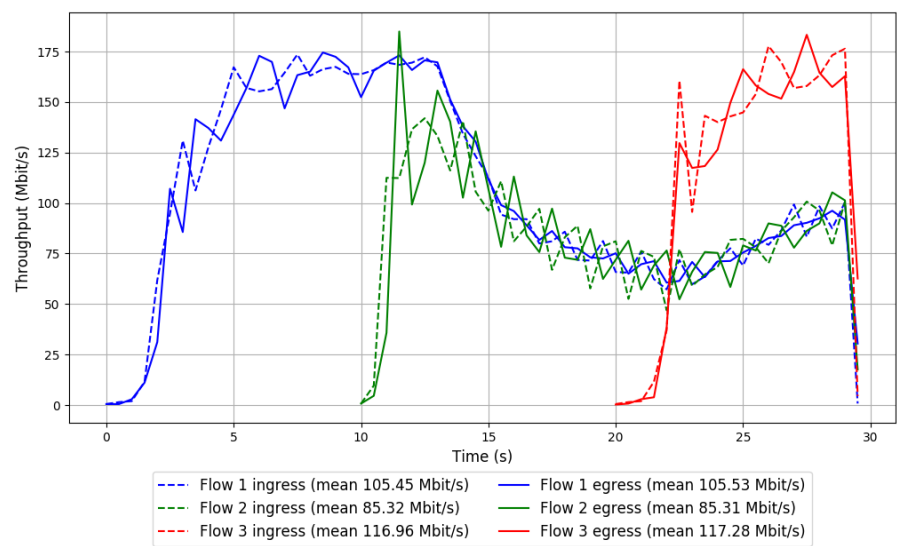
-- Flow 3:

Average throughput: 117.28 Mbit/s

95th percentile per-packet one-way delay: 164.057 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-21 08:59:23

End at: 2017-12-21 08:59:53

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.74 Mbit/s

95th percentile per-packet one-way delay: 137.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.47 Mbit/s

95th percentile per-packet one-way delay: 137.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.53 Mbit/s

95th percentile per-packet one-way delay: 137.832 ms

Loss rate: 0.01%

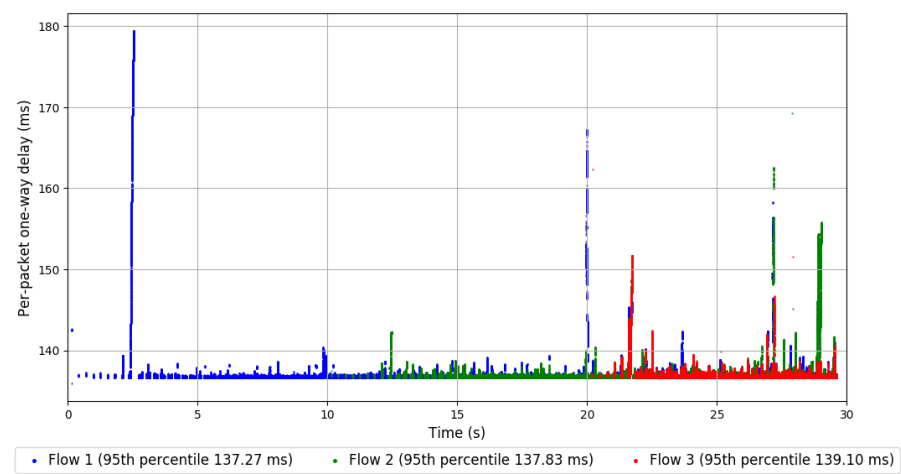
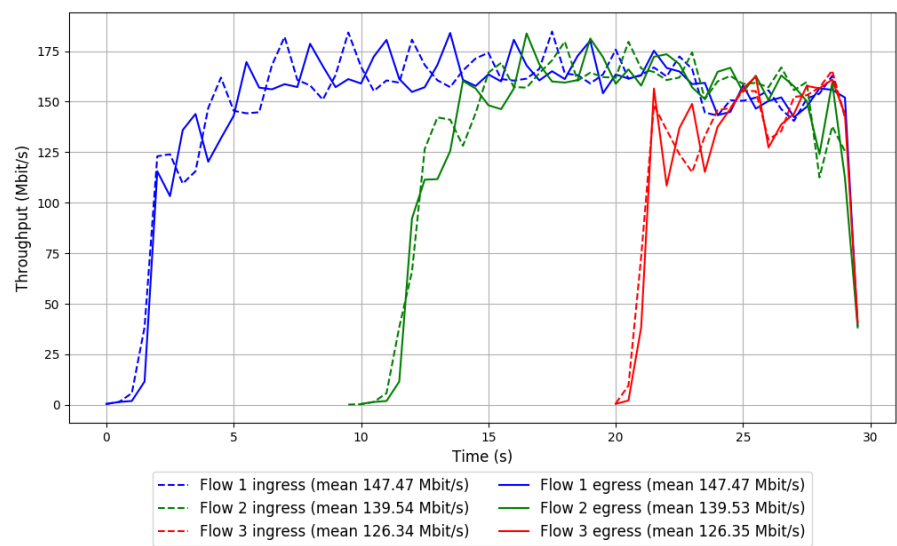
-- Flow 3:

Average throughput: 126.35 Mbit/s

95th percentile per-packet one-way delay: 139.104 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-21 09:15:10

End at: 2017-12-21 09:15:40

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.48 Mbit/s

95th percentile per-packet one-way delay: 138.188 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 149.25 Mbit/s

95th percentile per-packet one-way delay: 137.808 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 141.28 Mbit/s

95th percentile per-packet one-way delay: 138.385 ms

Loss rate: 0.03%

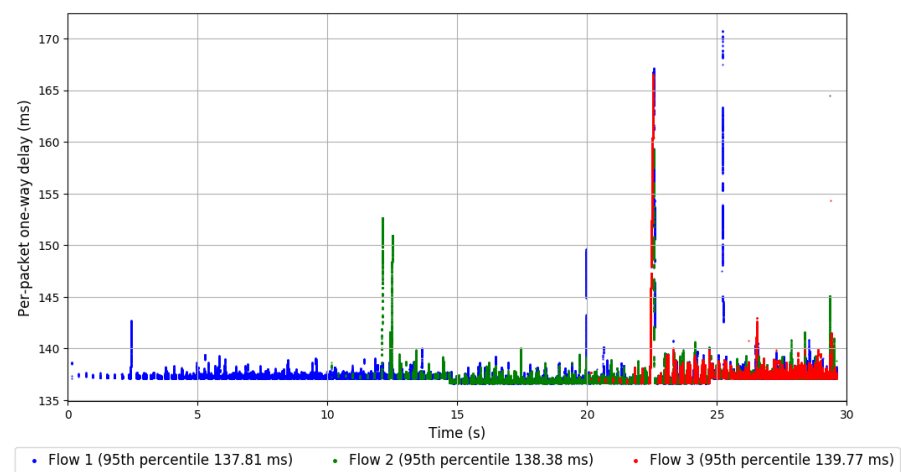
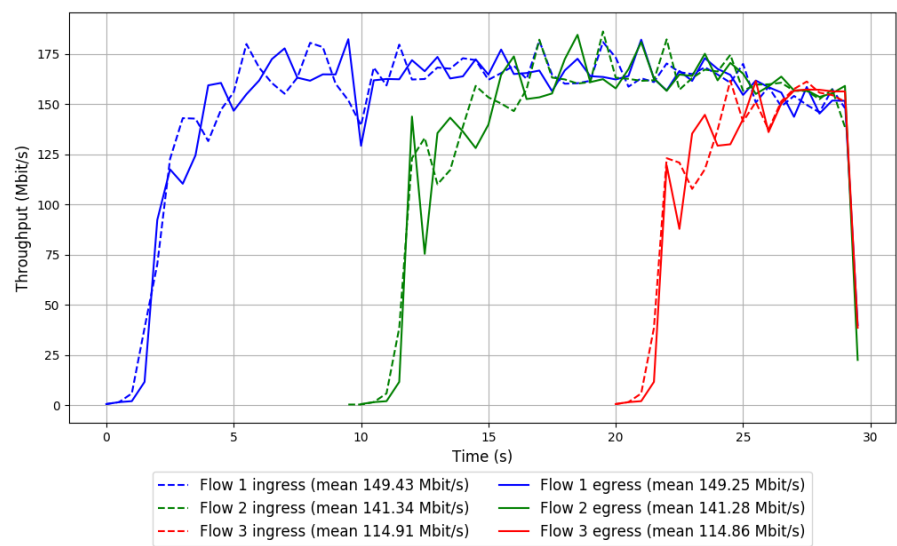
-- Flow 3:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 139.766 ms

Loss rate: 0.04%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-21 09:31:36

End at: 2017-12-21 09:32:06

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.62 Mbit/s

95th percentile per-packet one-way delay: 137.393 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 147.87 Mbit/s

95th percentile per-packet one-way delay: 137.266 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 139.39 Mbit/s

95th percentile per-packet one-way delay: 137.458 ms

Loss rate: 0.00%

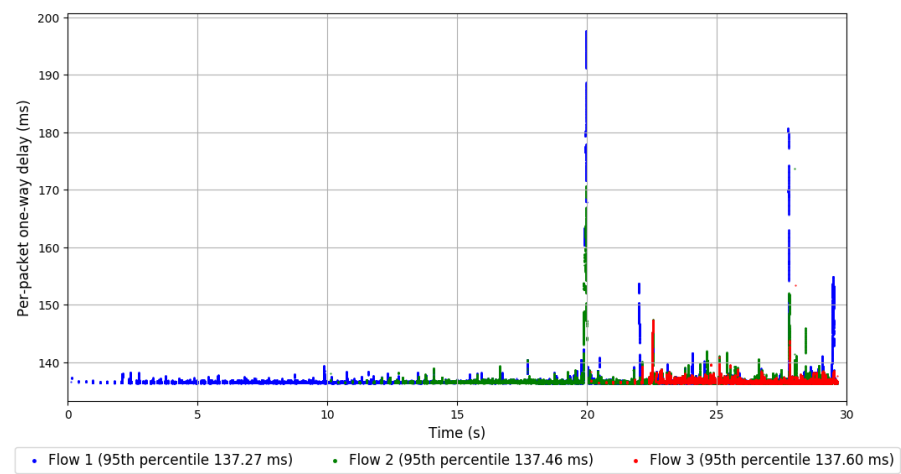
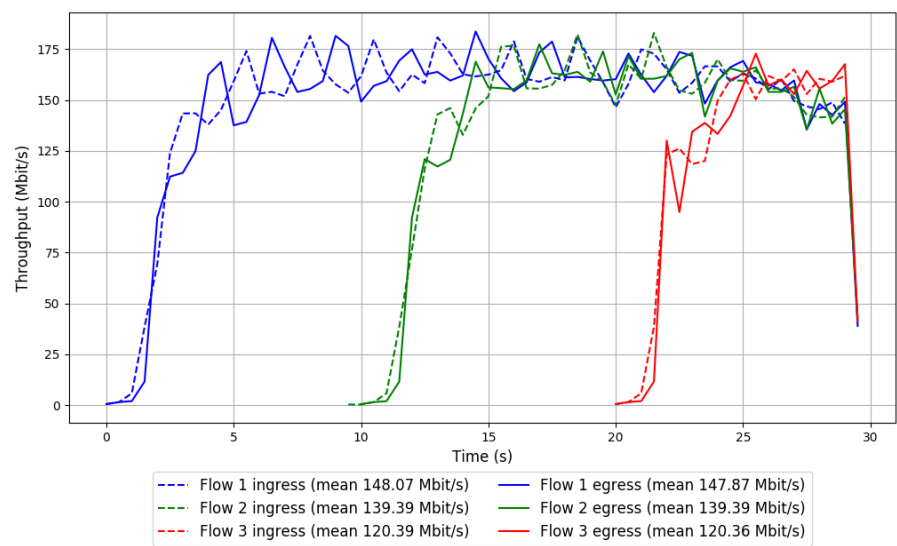
-- Flow 3:

Average throughput: 120.36 Mbit/s

95th percentile per-packet one-way delay: 137.597 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-21 09:47:49

End at: 2017-12-21 09:48:19

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 137.676 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 151.24 Mbit/s

95th percentile per-packet one-way delay: 137.545 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.39 Mbit/s

95th percentile per-packet one-way delay: 137.613 ms

Loss rate: 0.01%

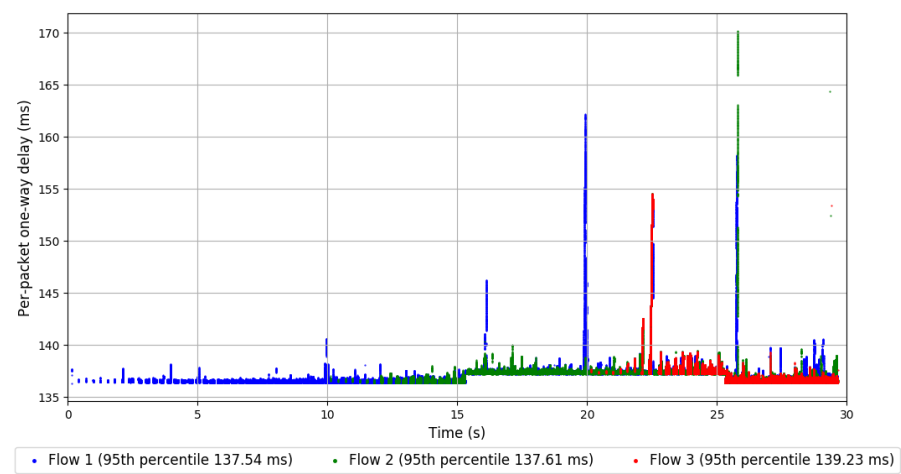
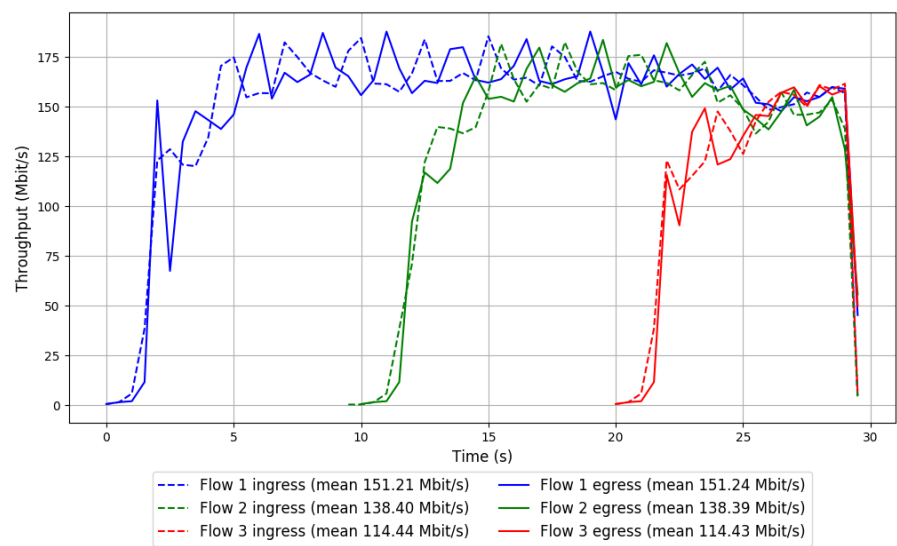
-- Flow 3:

Average throughput: 114.43 Mbit/s

95th percentile per-packet one-way delay: 139.226 ms

Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-21 10:03:56

End at: 2017-12-21 10:04:26

Below is generated by plot.py at 2017-12-21 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.70 Mbit/s

95th percentile per-packet one-way delay: 137.631 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 149.62 Mbit/s

95th percentile per-packet one-way delay: 137.358 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 140.74 Mbit/s

95th percentile per-packet one-way delay: 137.695 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 143.654 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

