

Pantheon Report

Generated at 2017-12-12 16:57:15 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

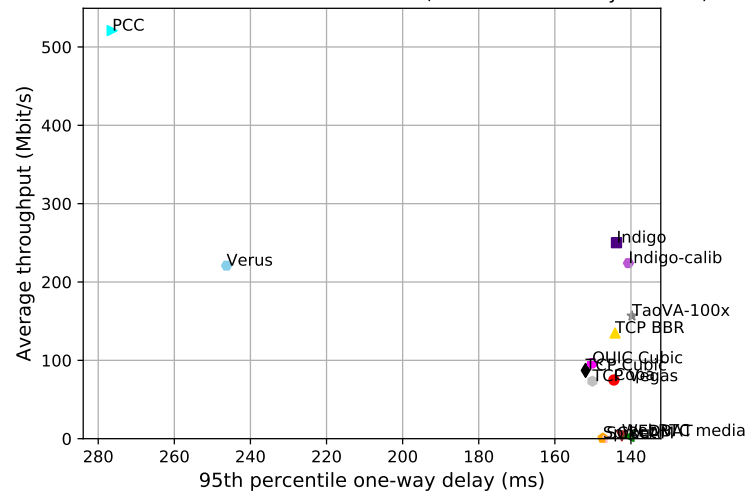
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

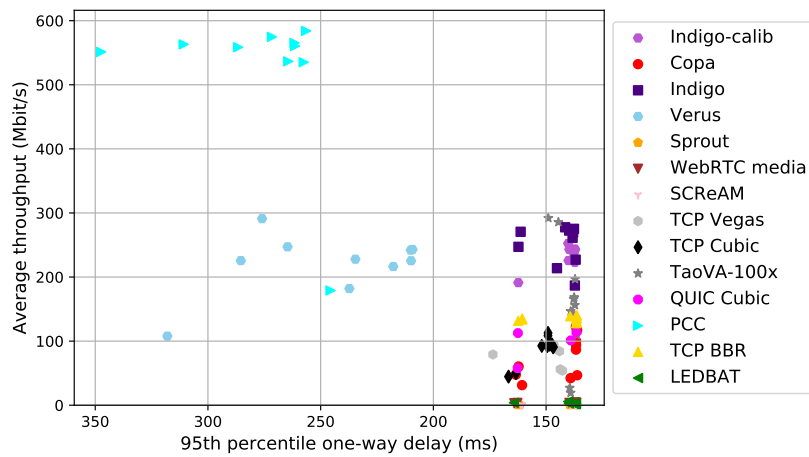
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	70.62	66.43	60.82	144.17	144.17	139.93	0.93	1.46	3.57
TCP Cubic	10	46.02	43.40	38.62	150.19	151.86	153.71	1.39	2.33	4.43
LEDBAT	10	1.69	1.24	1.02	140.55	140.42	140.32	1.51	2.38	4.40
PCC	10	388.48	146.61	109.71	273.64	241.10	248.48	5.88	4.90	6.62
QUIC Cubic	4	59.09	138.58	28.60	150.13	136.23	136.13	1.12	0.69	0.84
SCReAM	10	0.22	0.22	0.22	141.59	144.09	138.59	0.88	1.35	2.54
WebRTC media	10	2.00	1.17	0.40	136.86	142.38	139.25	1.06	2.00	5.69
Sprout	10	0.37	0.45	0.45	142.19	140.07	147.32	0.94	1.07	2.12
TaoVA-100x	10	65.16	107.28	84.67	144.28	142.06	144.93	1.15	1.45	4.03
TCP Vegas	5	44.04	29.21	31.04	149.12	147.69	144.90	0.83	1.32	2.96
Verus	10	129.80	113.07	52.14	229.54	237.28	248.38	2.19	3.33	5.66
Copa	10	35.09	50.03	28.71	144.36	142.09	137.07	1.22	1.99	6.90
Indigo	10	128.19	130.92	111.47	142.92	141.72	143.24	0.89	1.38	3.71
Indigo-calib	10	118.87	115.10	91.57	140.36	140.83	141.54	0.98	1.51	3.75

Run 1: Statistics of TCP BBR

Start at: 2017-12-12 11:37:23

End at: 2017-12-12 11:37:53

Below is generated by plot.py at 2017-12-12 16:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 160.571 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 71.04 Mbit/s

95th percentile per-packet one-way delay: 160.550 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 65.89 Mbit/s

95th percentile per-packet one-way delay: 160.631 ms

Loss rate: 1.58%

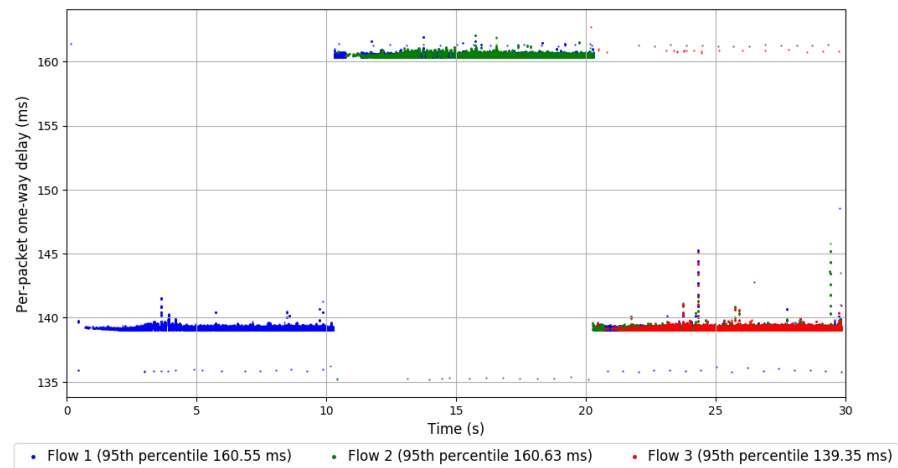
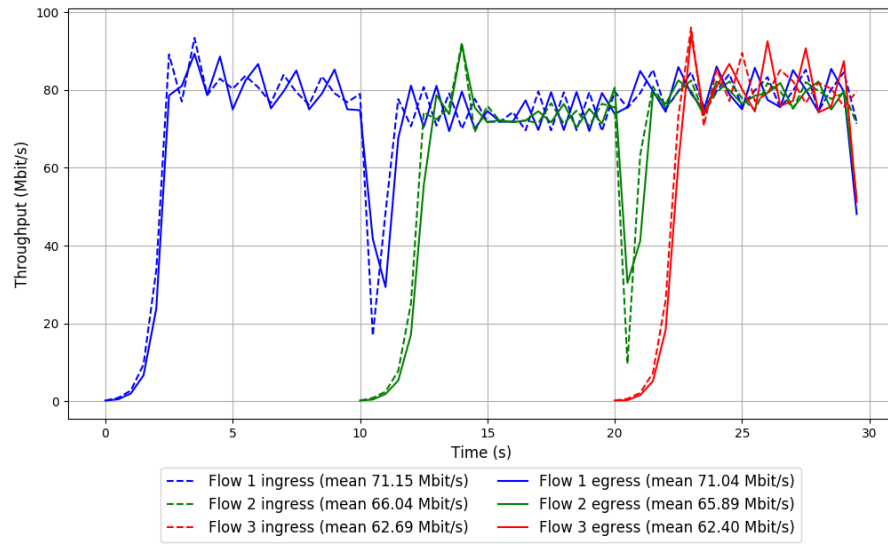
-- Flow 3:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 139.352 ms

Loss rate: 3.53%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-12 11:51:01

End at: 2017-12-12 11:51:32

Below is generated by plot.py at 2017-12-12 16:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.76 Mbit/s

95th percentile per-packet one-way delay: 160.546 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 69.54 Mbit/s

95th percentile per-packet one-way delay: 160.538 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 66.47 Mbit/s

95th percentile per-packet one-way delay: 160.579 ms

Loss rate: 1.57%

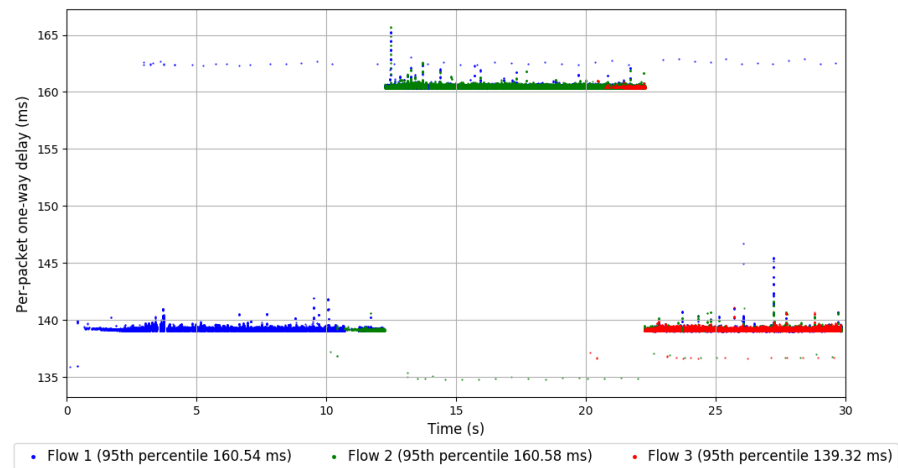
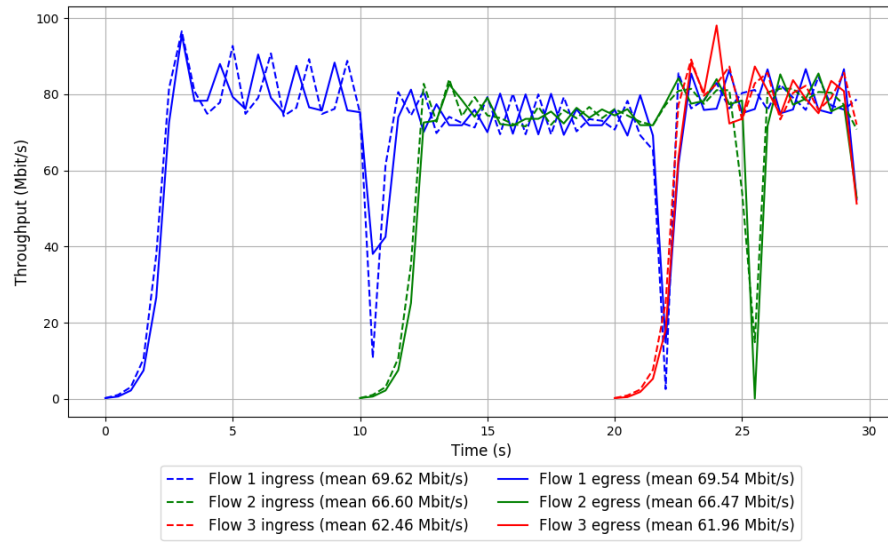
-- Flow 3:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 139.316 ms

Loss rate: 3.62%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2017-12-12 12:05:18

Below is generated by plot.py at 2017-12-12 16:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.77 Mbit/s

95th percentile per-packet one-way delay: 139.318 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 139.323 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 139.288 ms

Loss rate: 1.57%

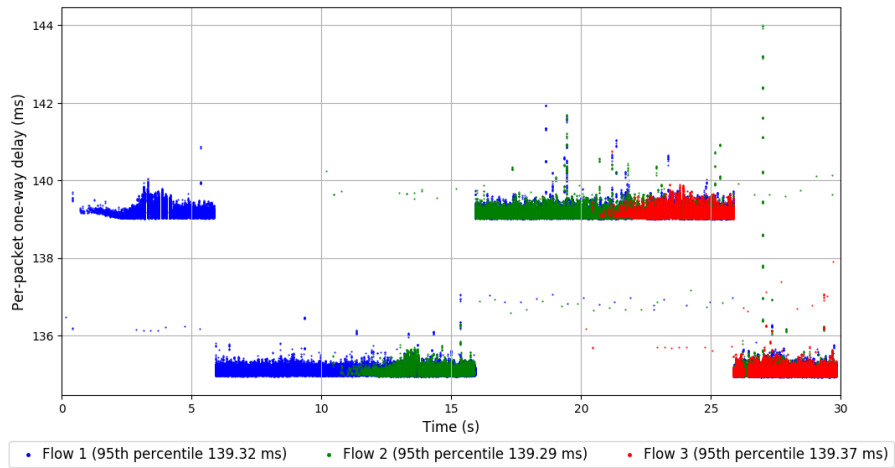
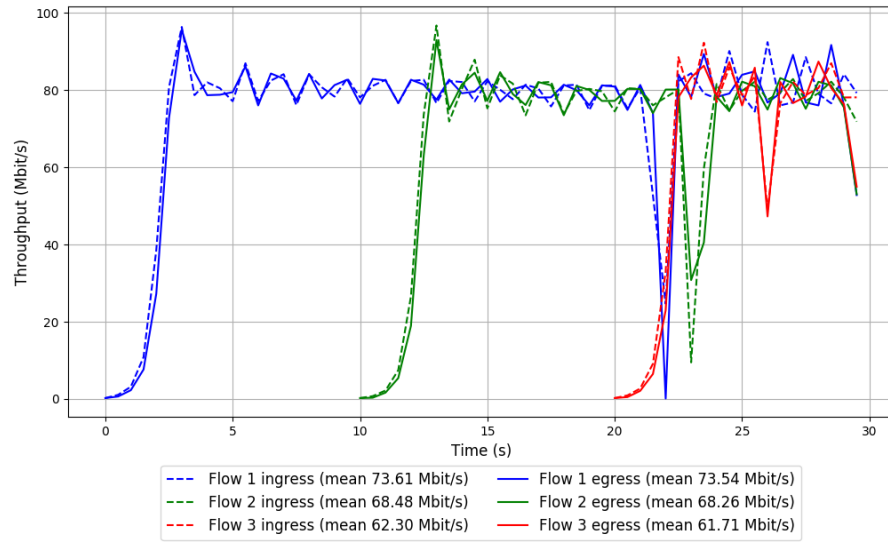
-- Flow 3:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 139.367 ms

Loss rate: 3.92%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2017-12-12 16:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.98 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 136.512 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 136.483 ms

Loss rate: 1.51%

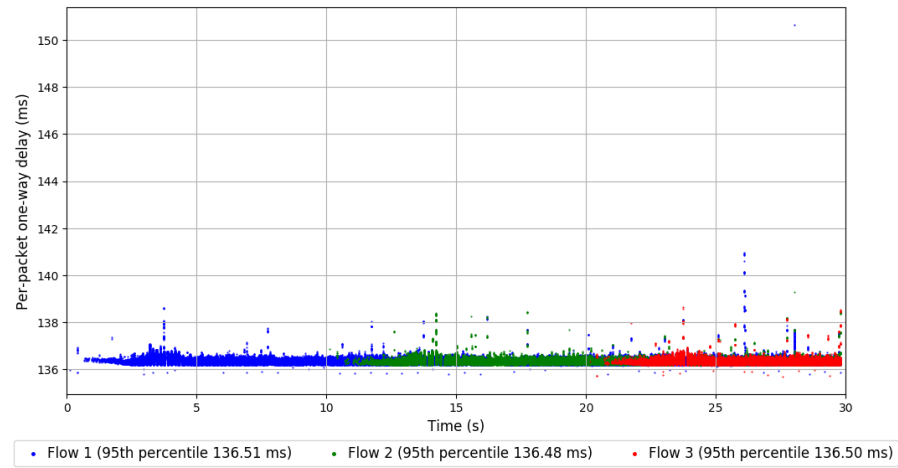
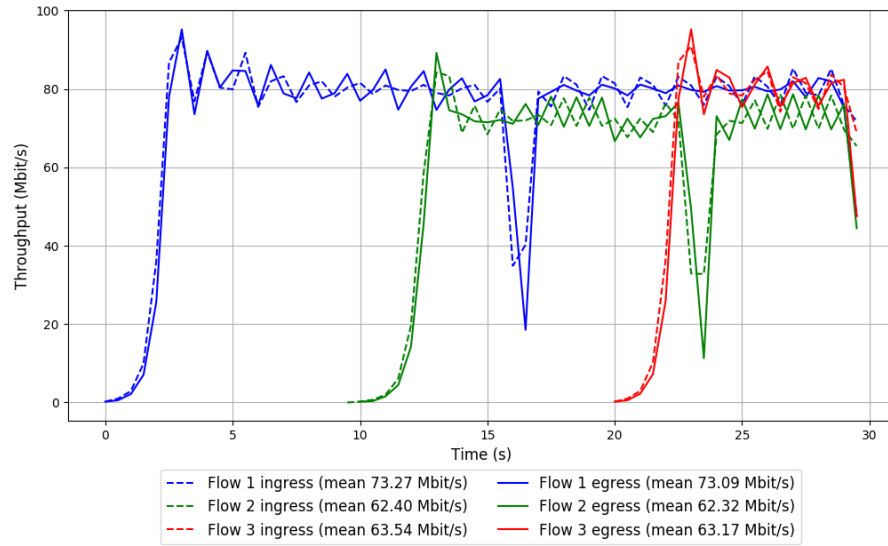
-- Flow 3:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 136.504 ms

Loss rate: 3.32%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-12 12:32:30

End at: 2017-12-12 12:33:00

Below is generated by plot.py at 2017-12-12 16:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.90 Mbit/s

95th percentile per-packet one-way delay: 136.425 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 136.457 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 136.316 ms

Loss rate: 1.63%

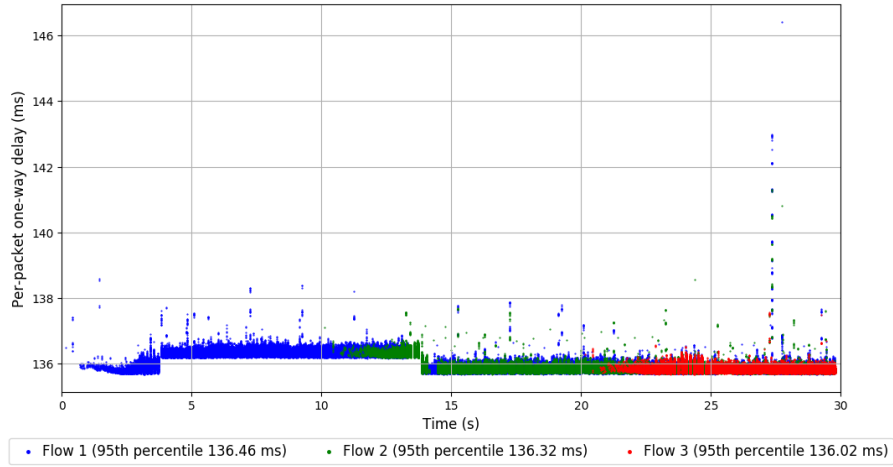
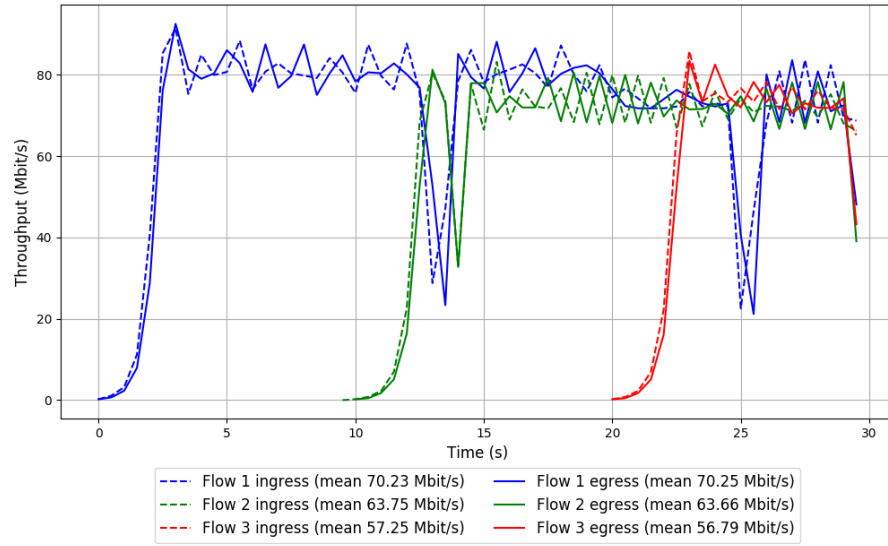
-- Flow 3:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 3.80%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-12 12:46:48

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

Below is generated by plot.py at 2017-12-12 16:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.65 Mbit/s

95th percentile per-packet one-way delay: 162.386 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 162.350 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 162.381 ms

Loss rate: 1.71%

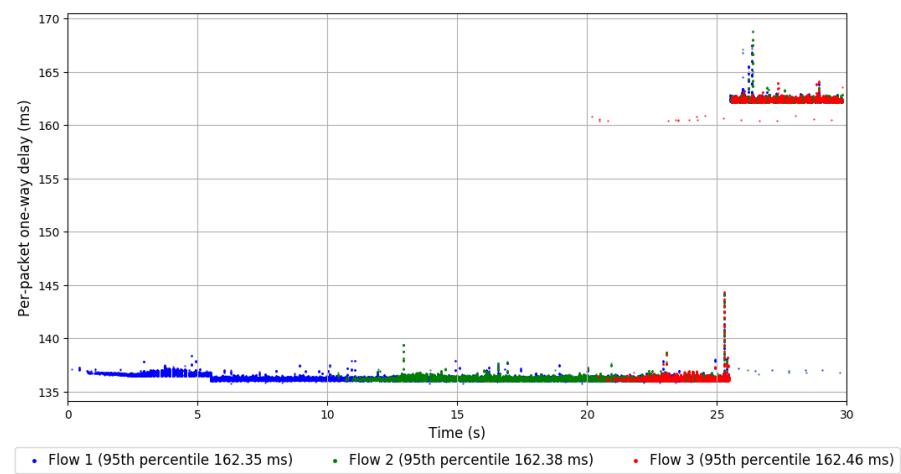
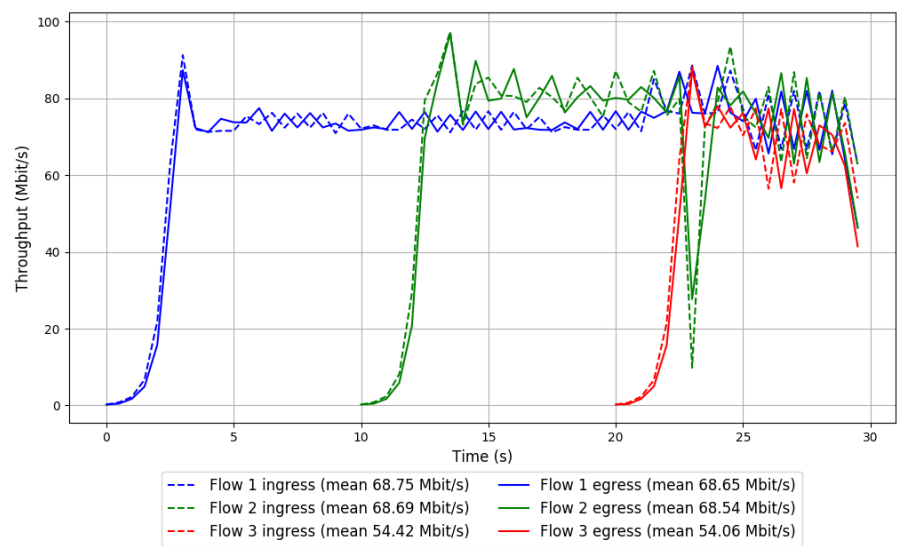
-- Flow 3:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 162.459 ms

Loss rate: 3.88%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-12 13:01:10

End at: 2017-12-12 13:01:40

Below is generated by plot.py at 2017-12-12 16:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.07 Mbit/s

95th percentile per-packet one-way delay: 136.327 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 136.323 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.65 Mbit/s

95th percentile per-packet one-way delay: 136.326 ms

Loss rate: 0.12%

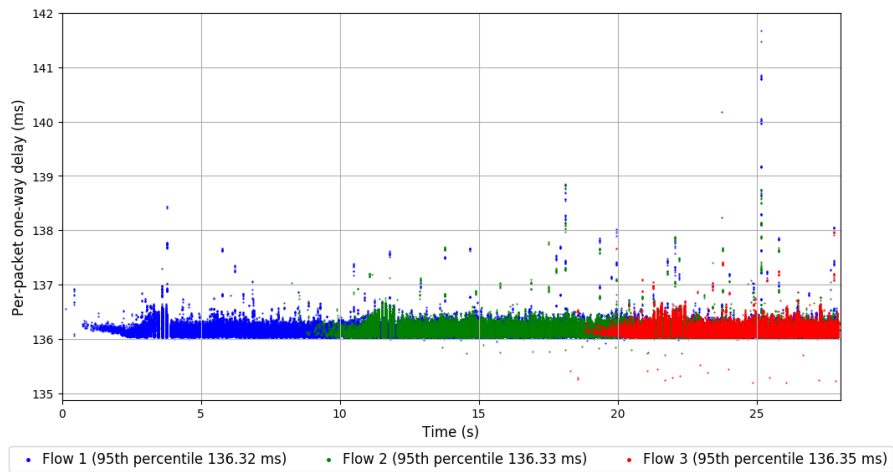
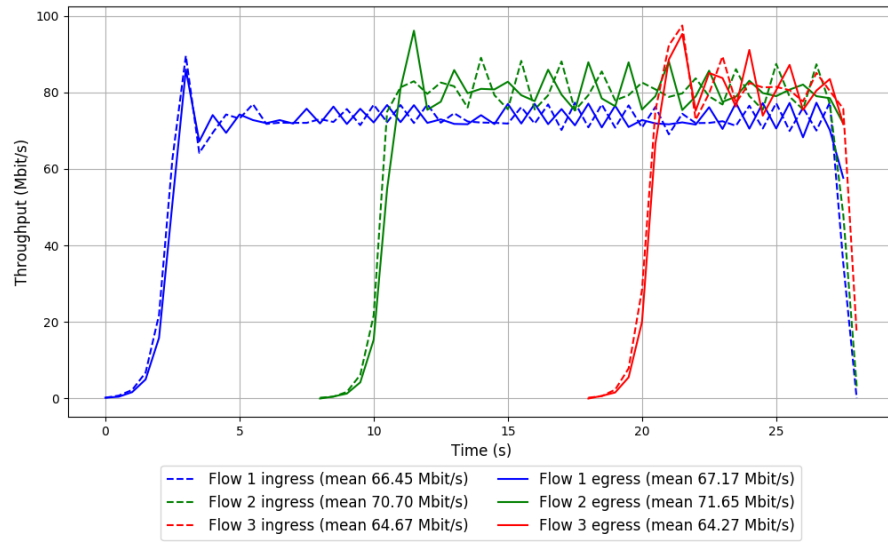
-- Flow 3:

Average throughput: 64.27 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 3.33%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-12 13:15:04

End at: 2017-12-12 13:15:34

Below is generated by plot.py at 2017-12-12 16:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.93 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 136.467 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 65.15 Mbit/s

95th percentile per-packet one-way delay: 136.485 ms

Loss rate: 1.84%

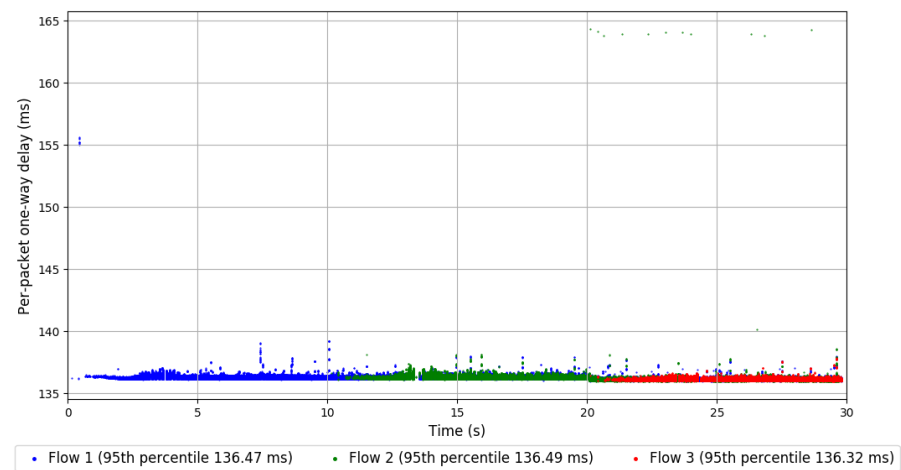
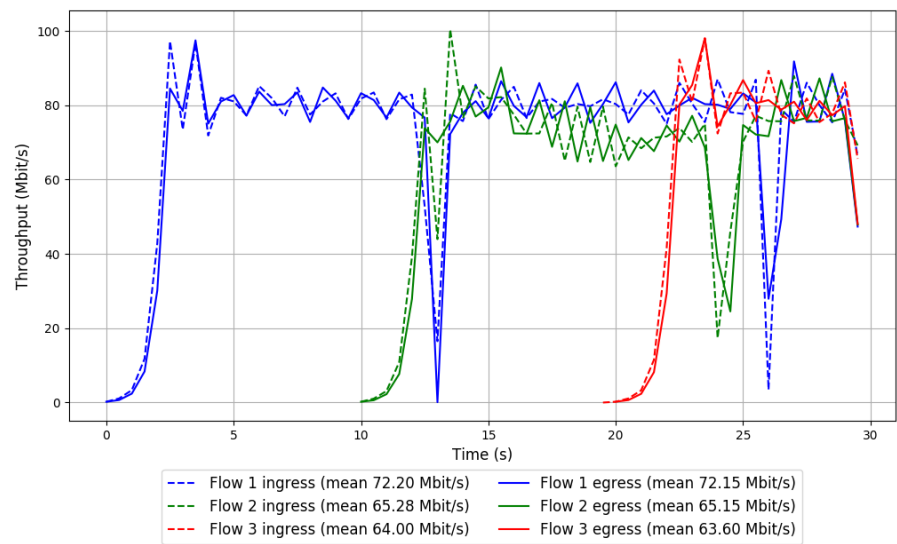
-- Flow 3:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 136.318 ms

Loss rate: 3.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-12 13:29:20

End at: 2017-12-12 13:29:50

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.61 Mbit/s

95th percentile per-packet one-way delay: 136.552 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 136.504 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 69.75 Mbit/s

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

Loss rate: 1.32%

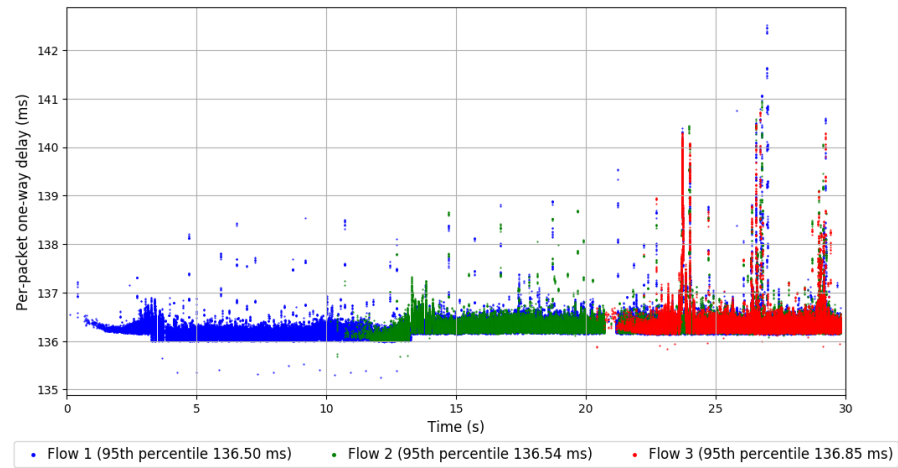
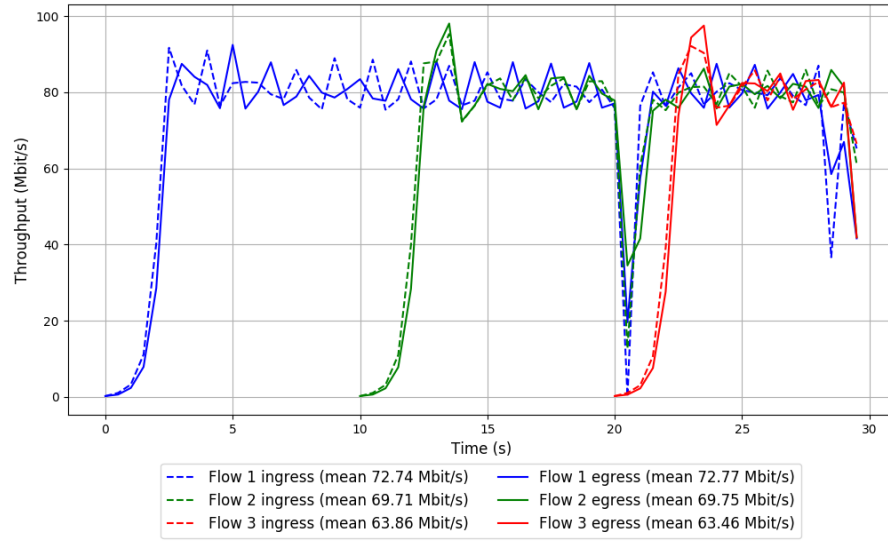
-- Flow 3:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 136.846 ms

Loss rate: 3.20%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-12 13:43:54

End at: 2017-12-12 13:44:24

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.97 Mbit/s

95th percentile per-packet one-way delay: 136.677 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 68.00 Mbit/s

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

Loss rate: 1.05%

-- Flow 2:

Average throughput: 62.61 Mbit/s

95th percentile per-packet one-way delay: 136.657 ms

Loss rate: 1.71%

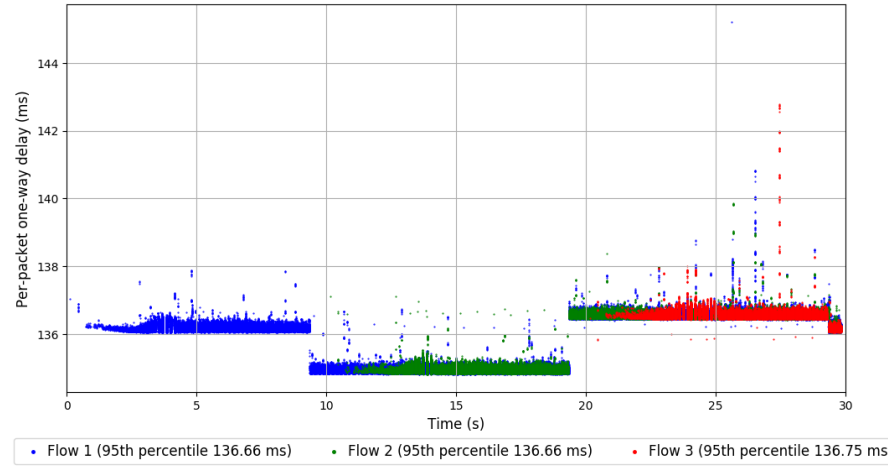
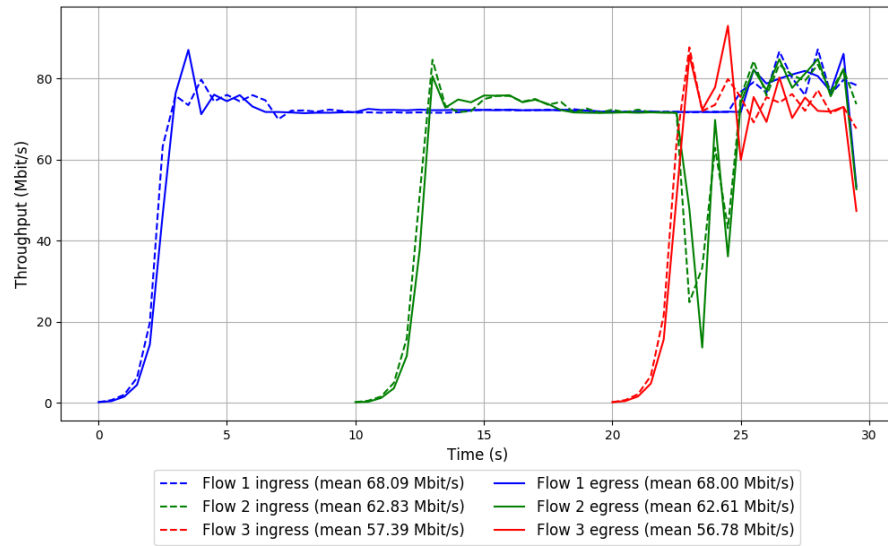
-- Flow 3:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 136.746 ms

Loss rate: 3.78%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-12 11:42:56

End at: 2017-12-12 11:43:26

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.60 Mbit/s

95th percentile per-packet one-way delay: 149.163 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 53.74 Mbit/s

95th percentile per-packet one-way delay: 148.511 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 61.76 Mbit/s

95th percentile per-packet one-way delay: 149.025 ms

Loss rate: 0.90%

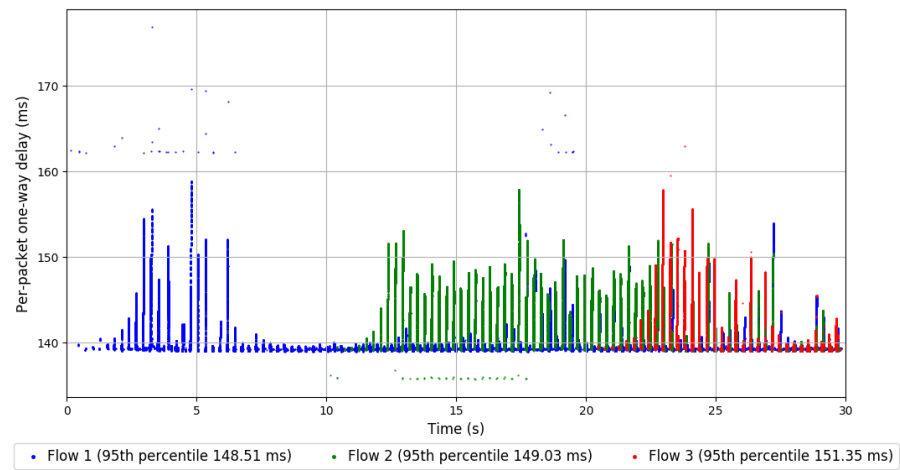
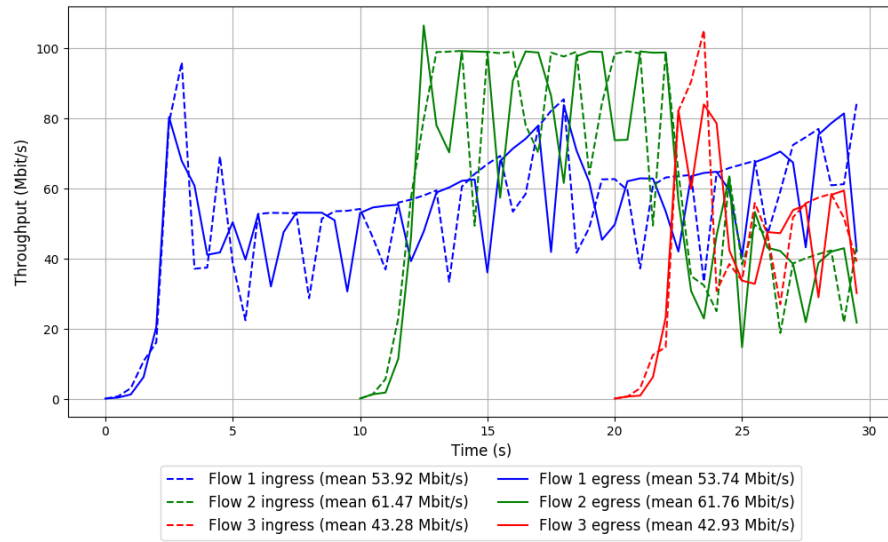
-- Flow 3:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 151.351 ms

Loss rate: 3.54%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-12 11:56:38

End at: 2017-12-12 11:57:08

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 148.405 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 143.191 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 149.107 ms

Loss rate: 1.22%

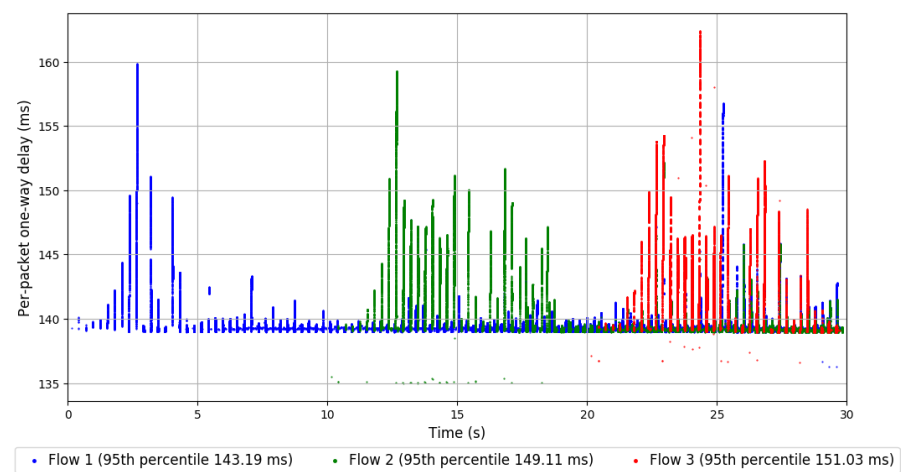
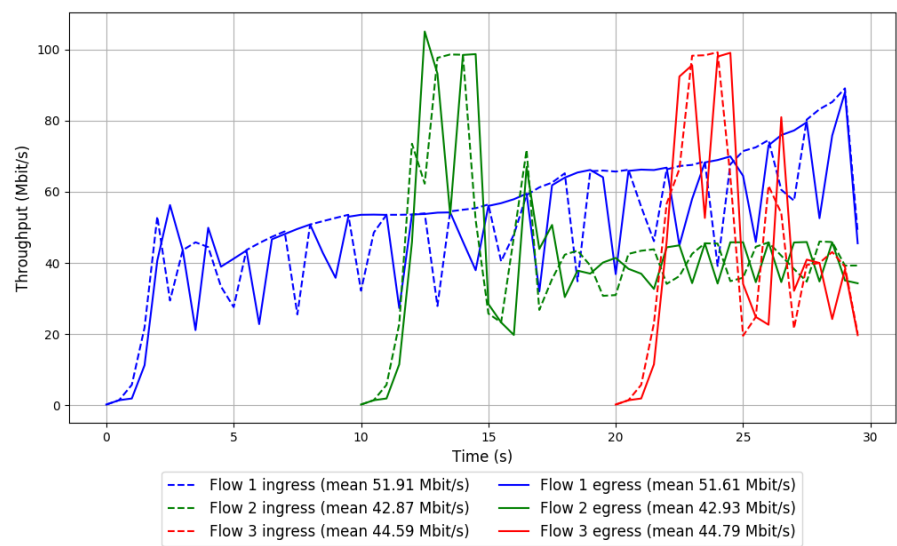
-- Flow 3:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 151.033 ms

Loss rate: 2.32%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-12 12:10:10

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

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 147.416 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 66.07 Mbit/s

95th percentile per-packet one-way delay: 146.867 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 148.475 ms

Loss rate: 6.50%

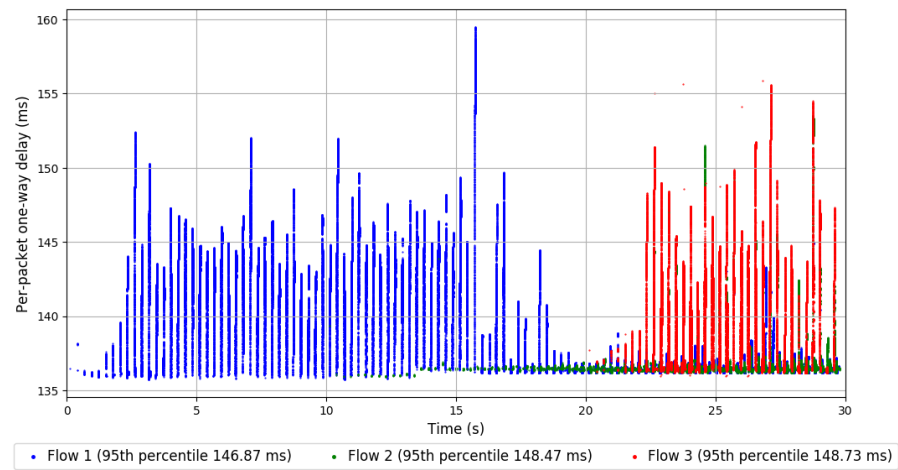
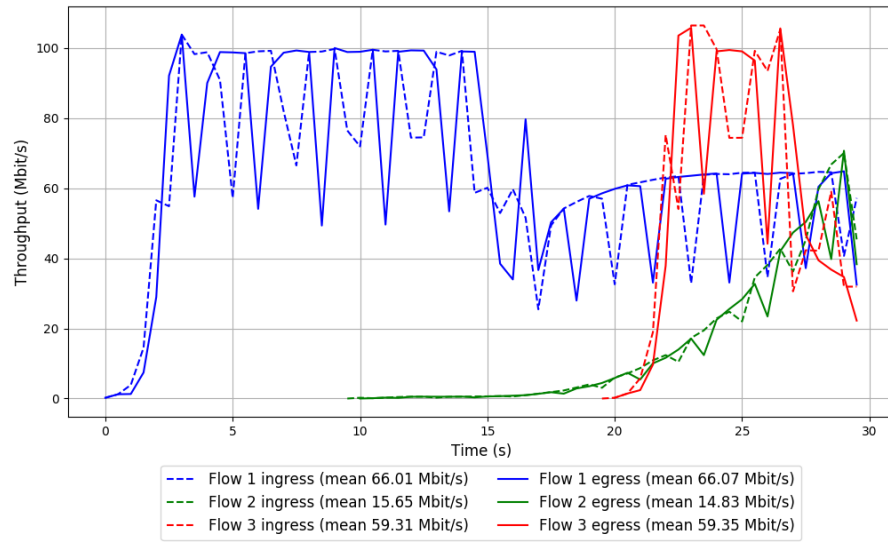
-- Flow 3:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 148.726 ms

Loss rate: 2.77%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-12 12:24:05

End at: 2017-12-12 12:24:35

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.08 Mbit/s

95th percentile per-packet one-way delay: 163.393 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 163.639 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 163.091 ms

Loss rate: 1.42%

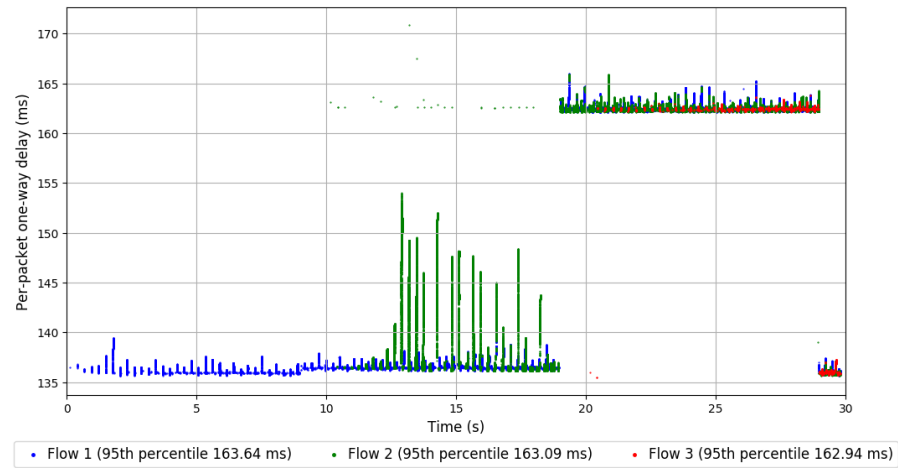
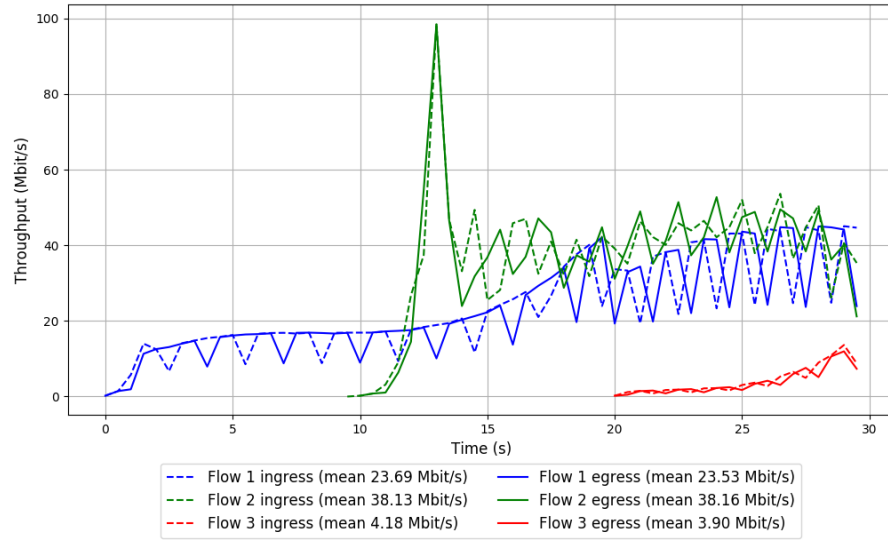
-- Flow 3:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 162.936 ms

Loss rate: 9.43%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-12 12:38:16

End at: 2017-12-12 12:38:46

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 146.873 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 36.83 Mbit/s

95th percentile per-packet one-way delay: 141.495 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 51.52 Mbit/s

95th percentile per-packet one-way delay: 146.926 ms

Loss rate: 1.30%

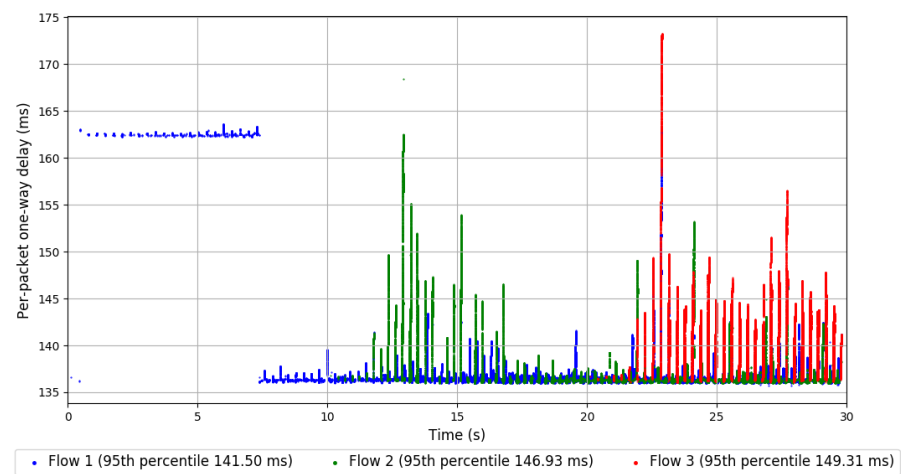
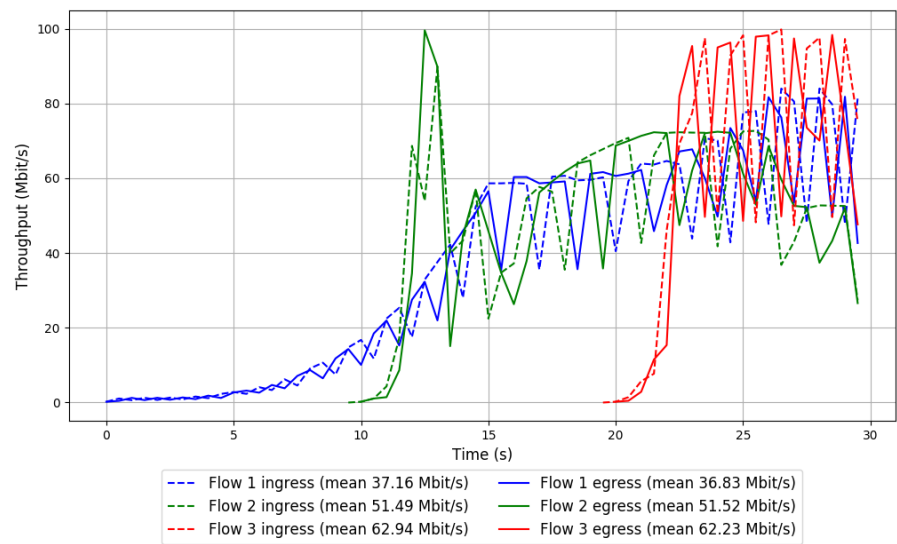
-- Flow 3:

Average throughput: 62.23 Mbit/s

95th percentile per-packet one-way delay: 149.315 ms

Loss rate: 4.09%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-12 12:52:30

End at: 2017-12-12 12:53:00

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.76 Mbit/s

95th percentile per-packet one-way delay: 149.126 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 52.74 Mbit/s

95th percentile per-packet one-way delay: 148.235 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 149.452 ms

Loss rate: 1.66%

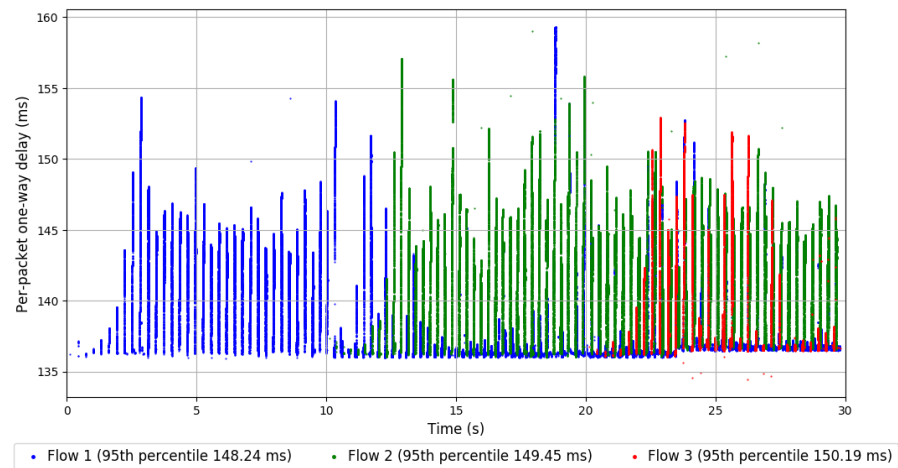
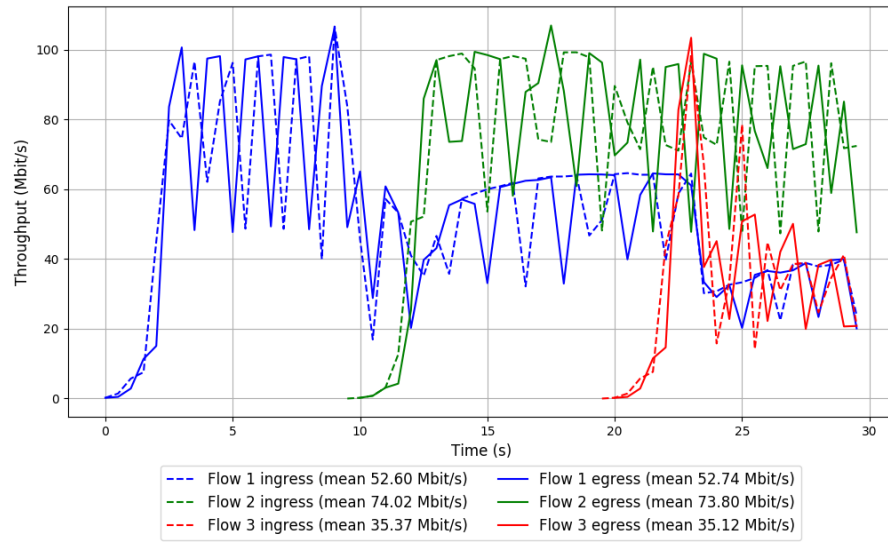
-- Flow 3:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 150.194 ms

Loss rate: 3.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-12 13:06:38

End at: 2017-12-12 13:07:08

Below is generated by plot.py at 2017-12-12 16:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.60 Mbit/s

95th percentile per-packet one-way delay: 166.657 ms

Loss rate: 3.07%

-- Flow 1:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 166.026 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 25.17 Mbit/s

95th percentile per-packet one-way delay: 167.291 ms

Loss rate: 4.37%

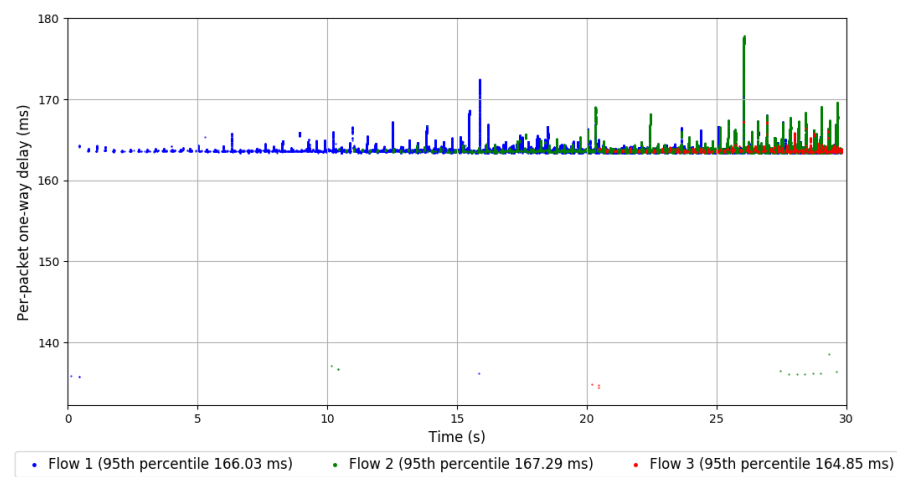
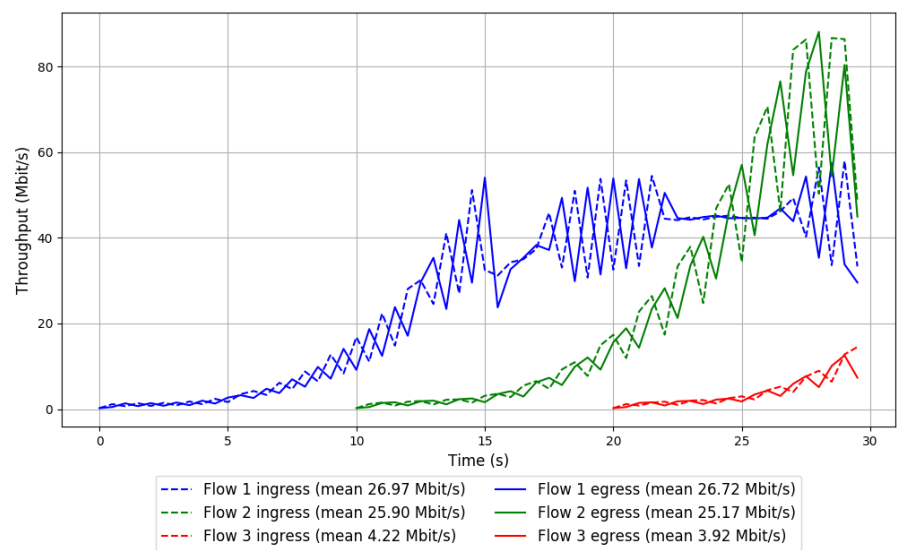
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 164.849 ms

Loss rate: 9.66%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-12 13:20:44

End at: 2017-12-12 13:21:14

Below is generated by plot.py at 2017-12-12 16:19:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 151.916 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 149.548 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 153.535 ms

Loss rate: 1.87%

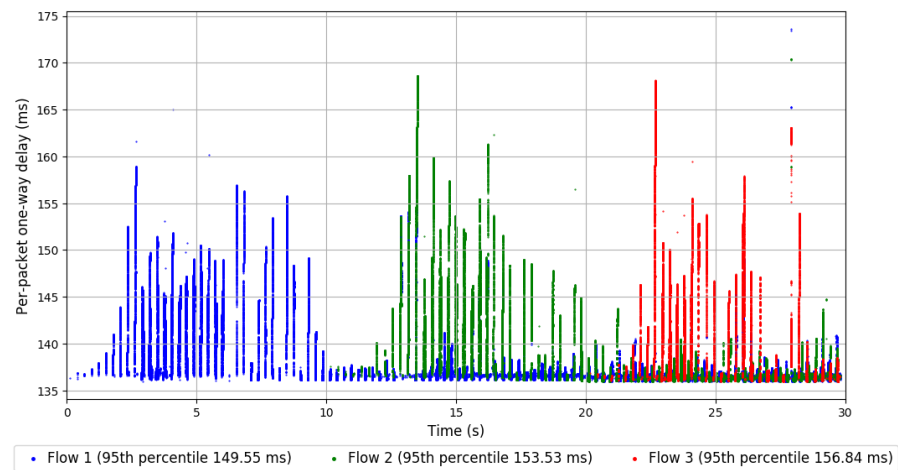
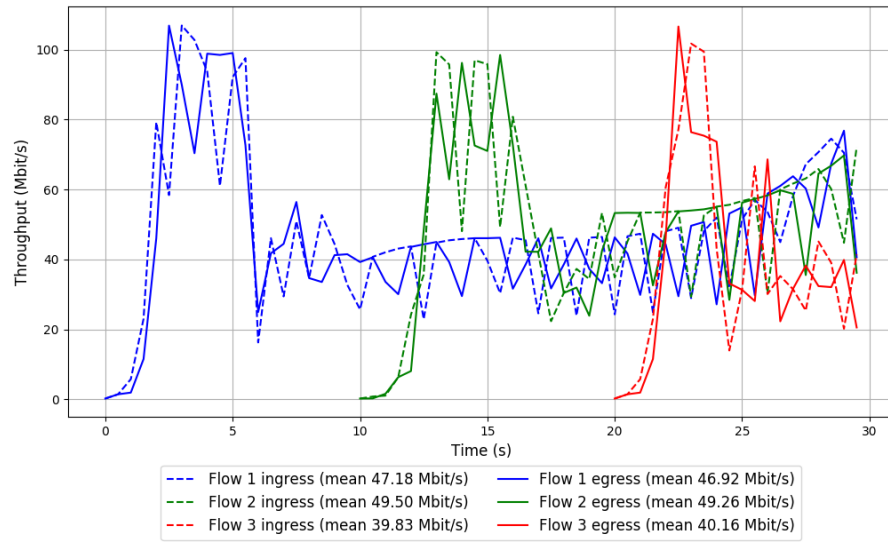
-- Flow 3:

Average throughput: 40.16 Mbit/s

95th percentile per-packet one-way delay: 156.838 ms

Loss rate: 2.64%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-12 13:35:02

End at: 2017-12-12 13:35:32

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 149.469 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 149.501 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 148.440 ms

Loss rate: 1.85%

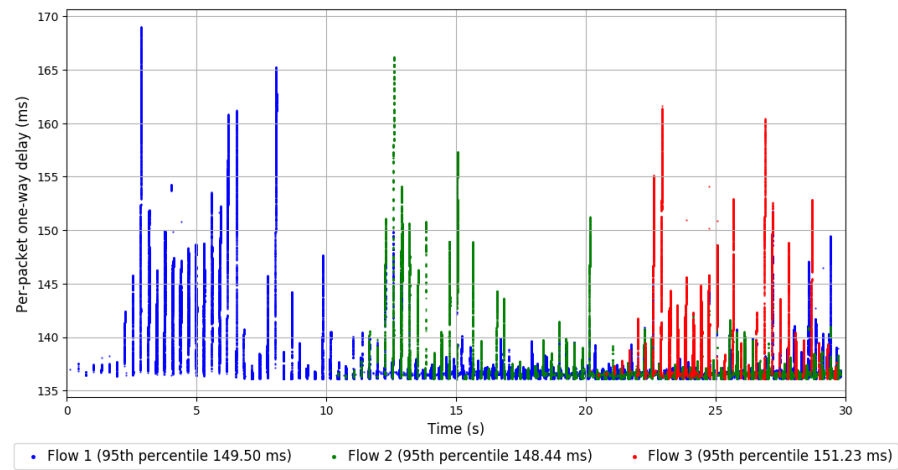
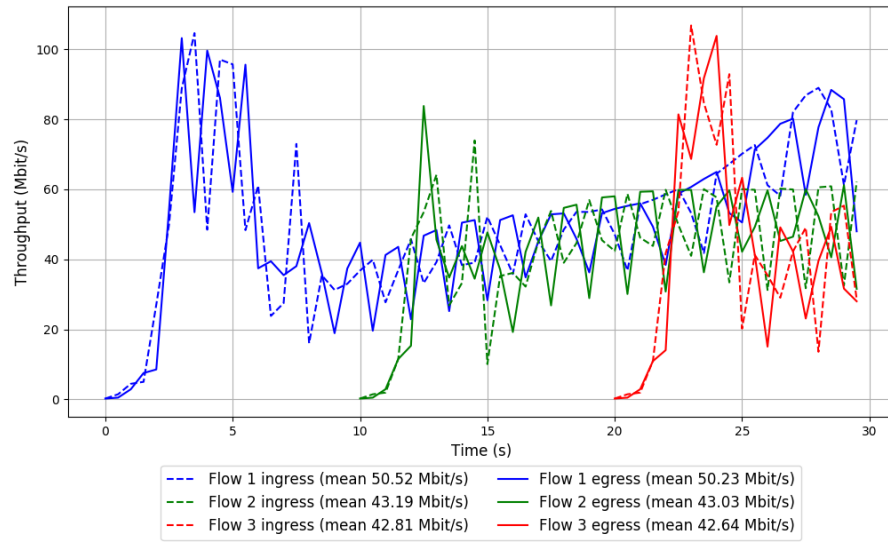
-- Flow 3:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 151.226 ms

Loss rate: 3.44%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-12 13:49:32

End at: 2017-12-12 13:50:02

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.27 Mbit/s

95th percentile per-packet one-way delay: 146.818 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 144.899 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 143.215 ms

Loss rate: 2.22%

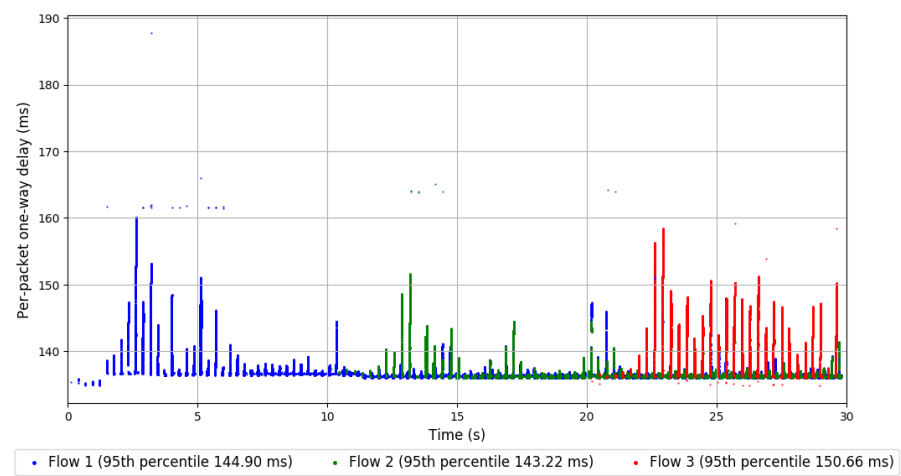
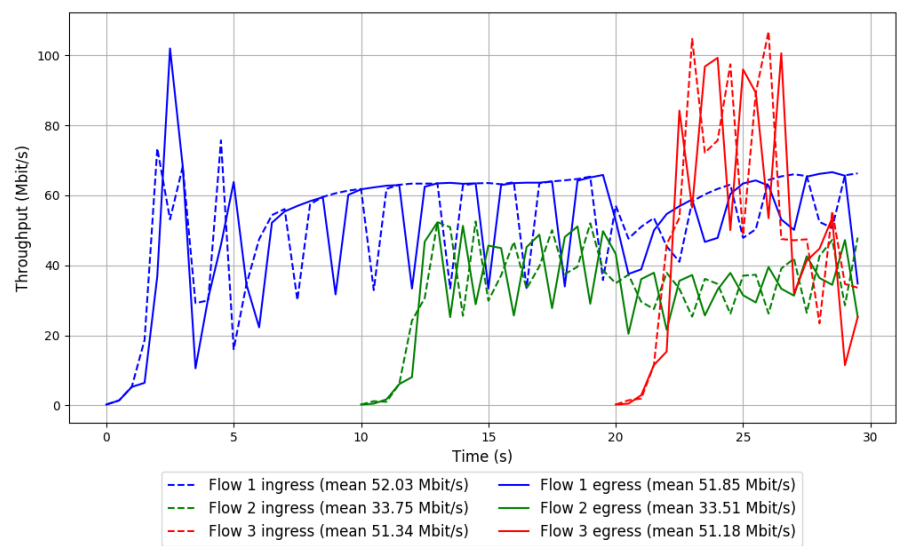
-- Flow 3:

Average throughput: 51.18 Mbit/s

95th percentile per-packet one-way delay: 150.664 ms

Loss rate: 3.39%

Run 10: Report of TCP Cubic — Data Link

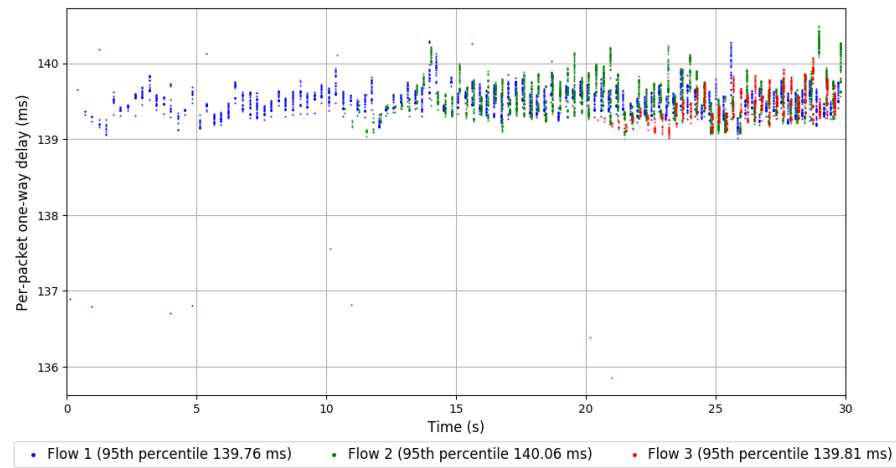
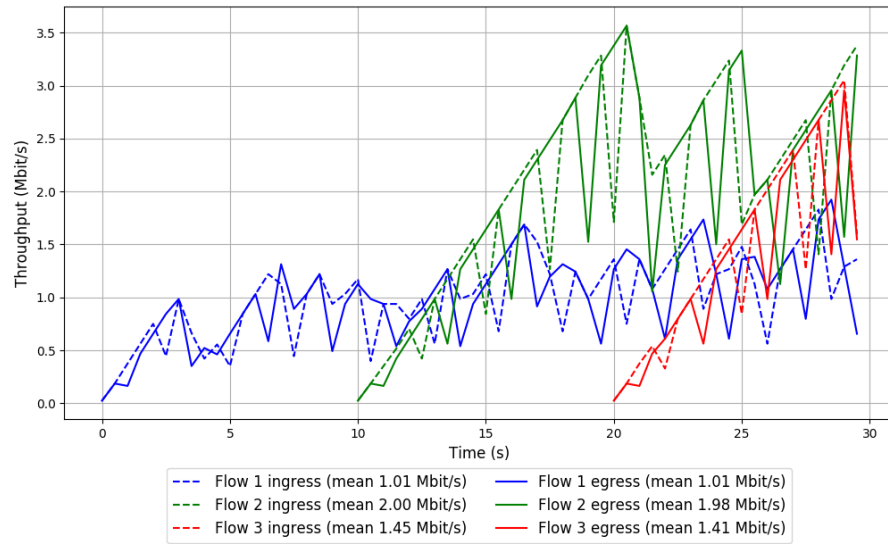


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-12 11:43:53
End at: 2017-12-12 11:44:23

# Below is generated by plot.py at 2017-12-12 16:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 139.917 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 139.765 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 140.056 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 139.815 ms
Loss rate: 5.69%
```


Run 1: Report of LEDBAT — Data Link

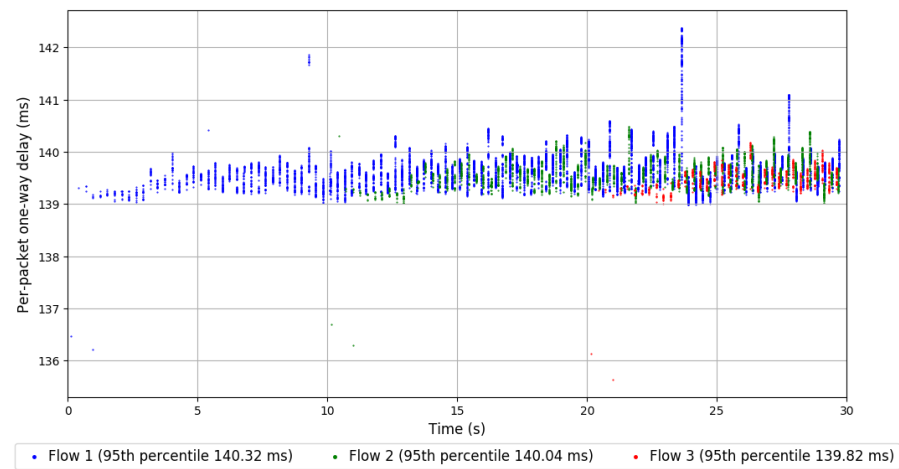
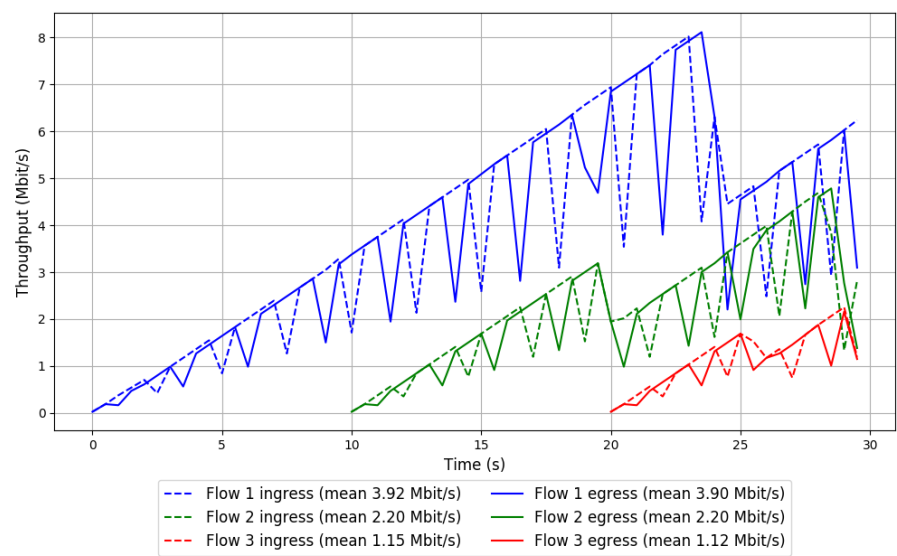


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-12 11:57:34
End at: 2017-12-12 11:58:04

# Below is generated by plot.py at 2017-12-12 16:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 140.244 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 140.317 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 140.039 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 139.823 ms
Loss rate: 5.36%
```

Run 2: Report of LEDBAT — Data Link

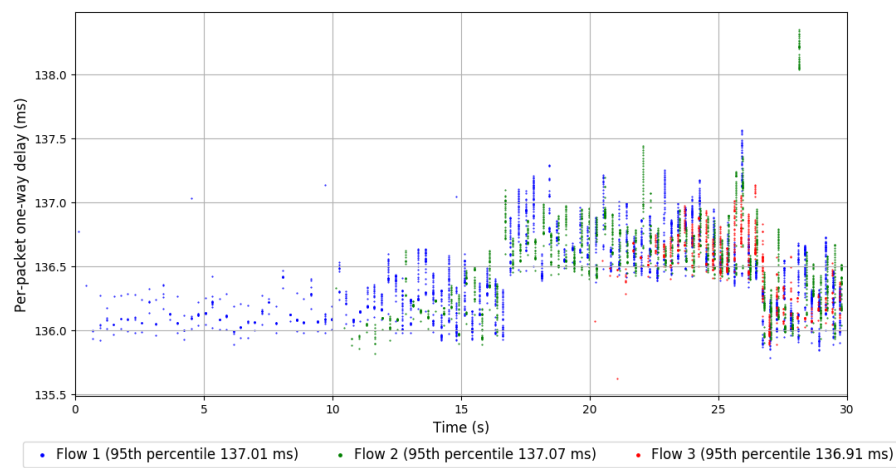
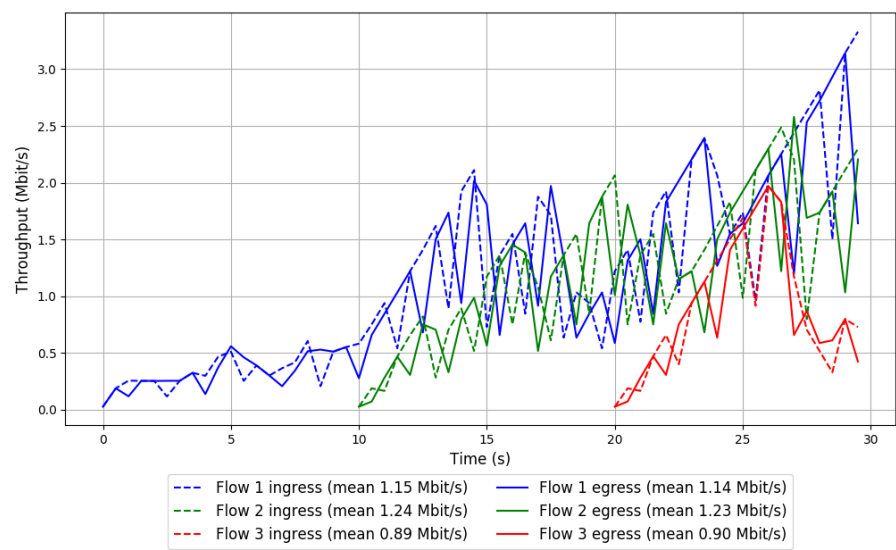


```
Run 3: Statistics of LEDBAT

Start at: 2017-12-12 12:11:07
End at: 2017-12-12 12:11:37

# Below is generated by plot.py at 2017-12-12 16:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 137.009 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 137.014 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 137.072 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 136.914 ms
Loss rate: 1.75%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-12 12:24:58

End at: 2017-12-12 12:25:28

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 136.639 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 136.799 ms

Loss rate: 3.47%

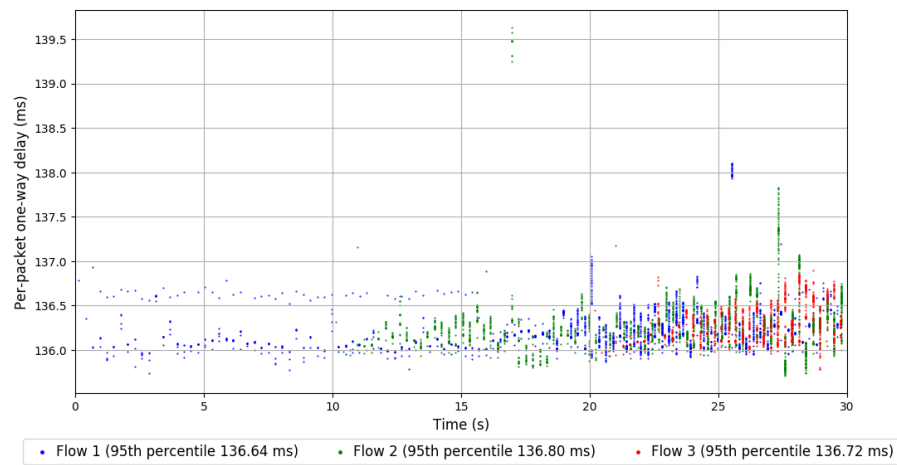
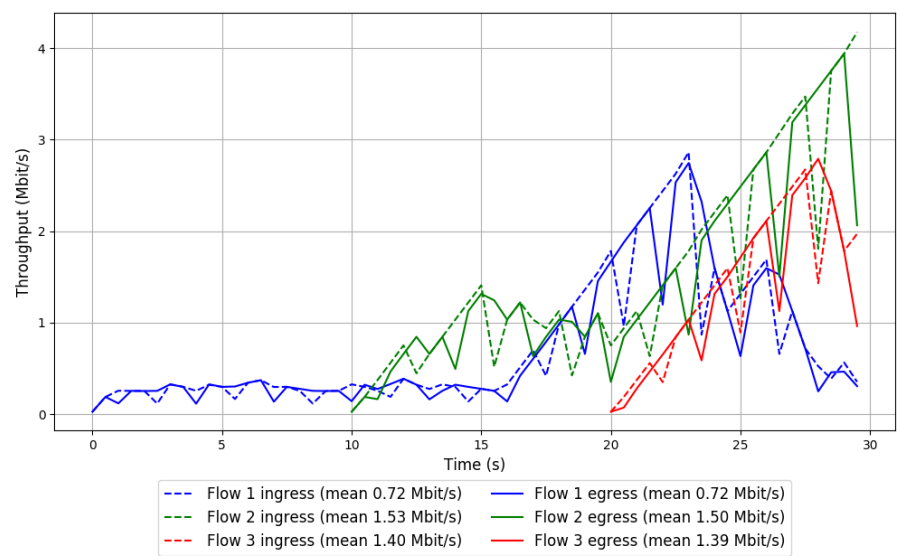
-- Flow 3:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 3.66%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-12 12:39:13

End at: 2017-12-12 12:39:43

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 137.462 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 137.480 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 137.473 ms

Loss rate: 3.25%

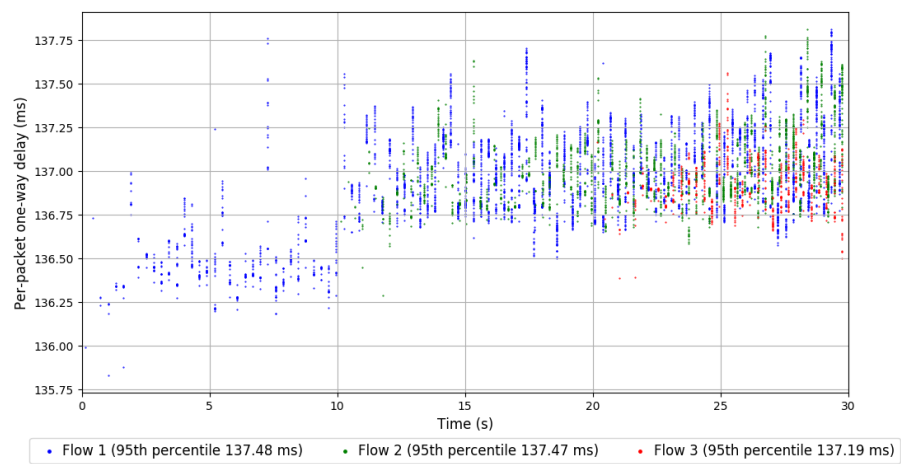
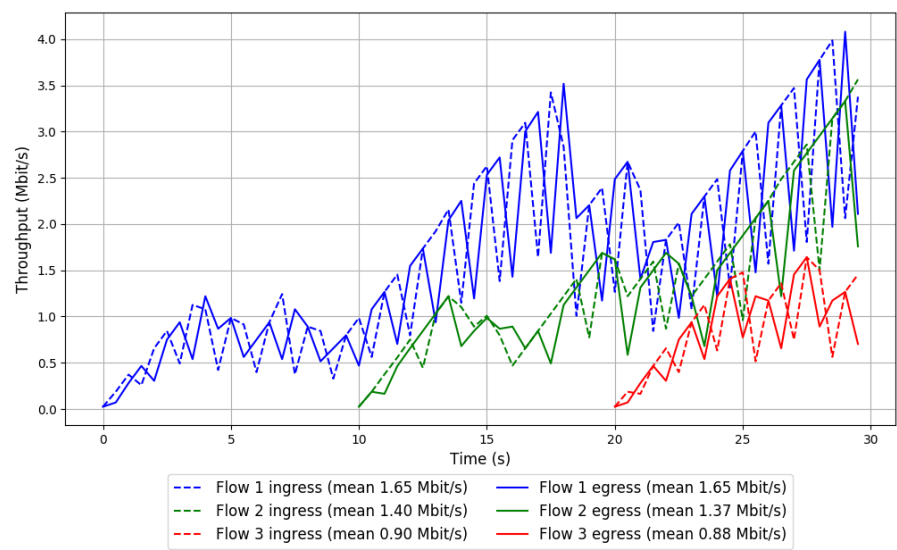
-- Flow 3:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 137.189 ms

Loss rate: 4.24%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-12 12:53:29

End at: 2017-12-12 12:53:59

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.40 Mbit/s

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

Loss rate: 1.72%

-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 136.917 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 136.749 ms

Loss rate: 1.29%

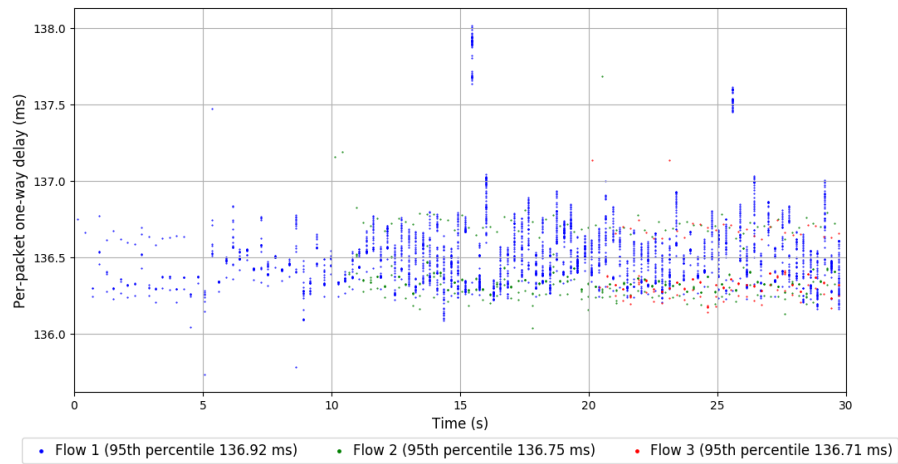
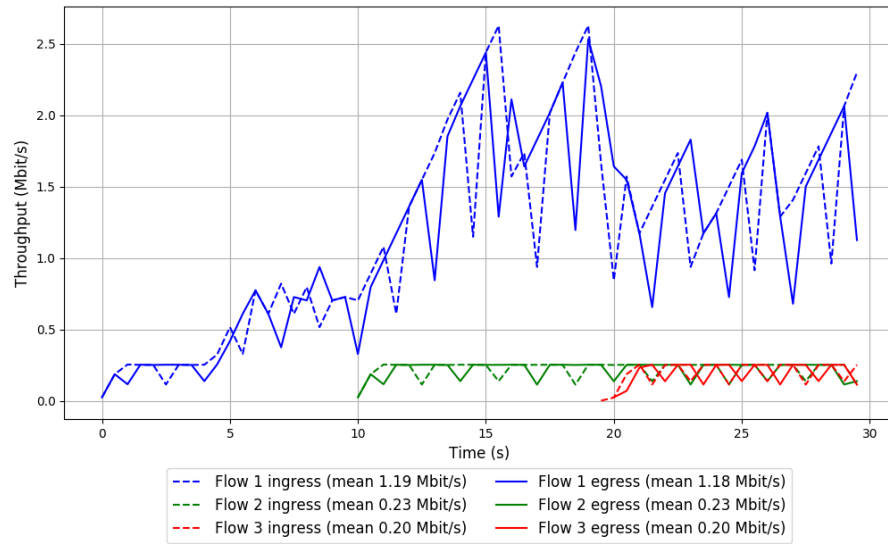
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 136.711 ms

Loss rate: 3.46%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-12 13:07:31

End at: 2017-12-12 13:08:01

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 164.286 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 164.392 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 164.184 ms

Loss rate: 3.12%

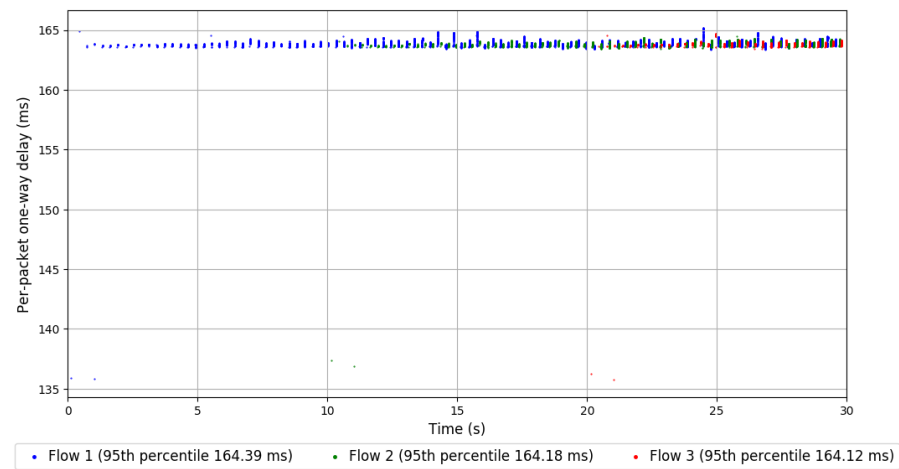
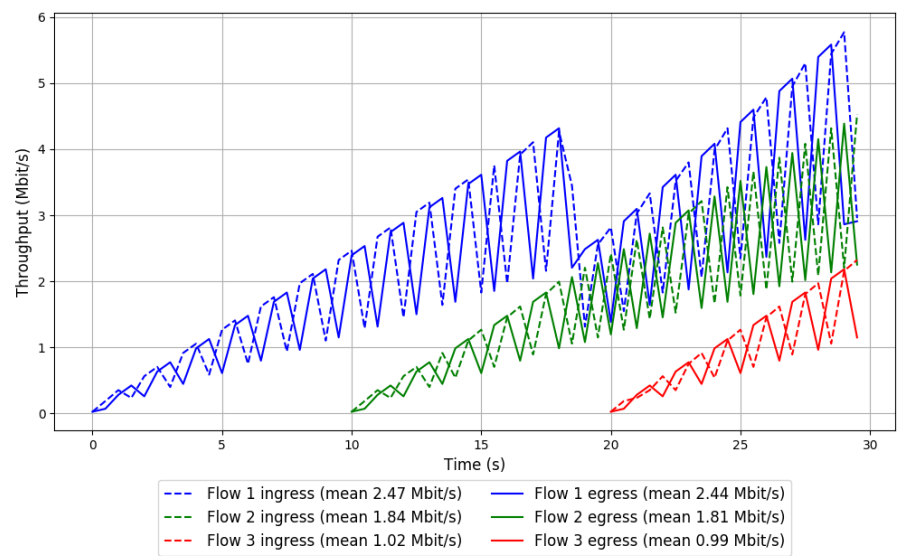
-- Flow 3:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 164.118 ms

Loss rate: 5.79%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-12 13:21:42

End at: 2017-12-12 13:22:12

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 137.712 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 137.814 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 137.698 ms

Loss rate: 2.25%

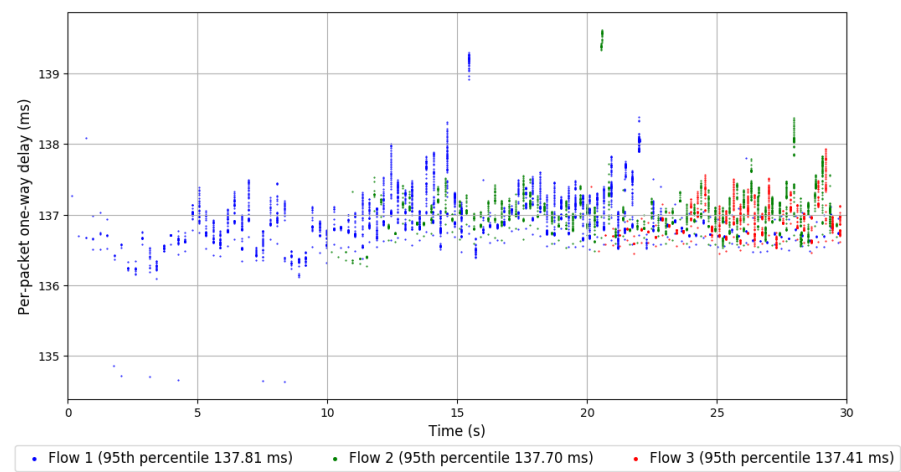
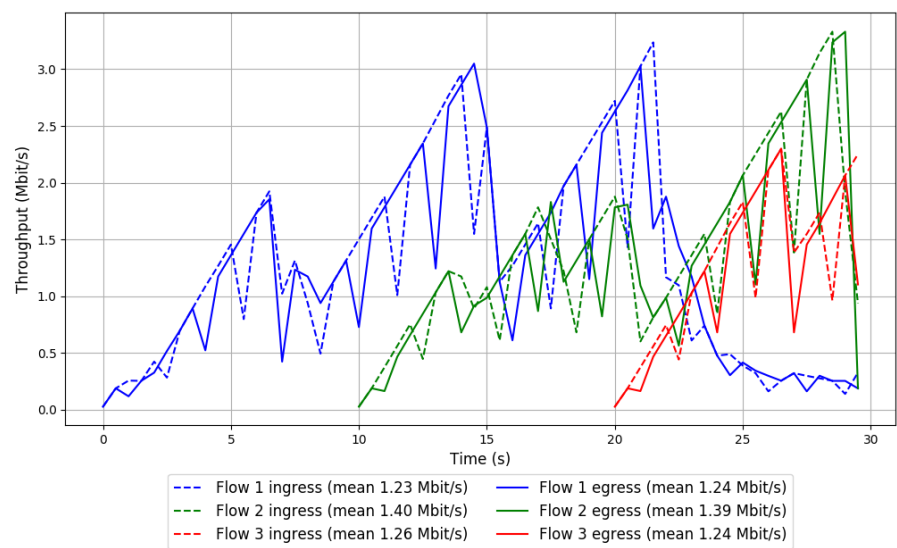
-- Flow 3:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 137.412 ms

Loss rate: 4.63%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-12 13:36:00

End at: 2017-12-12 13:36:30

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 137.724 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 137.793 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 1.19%

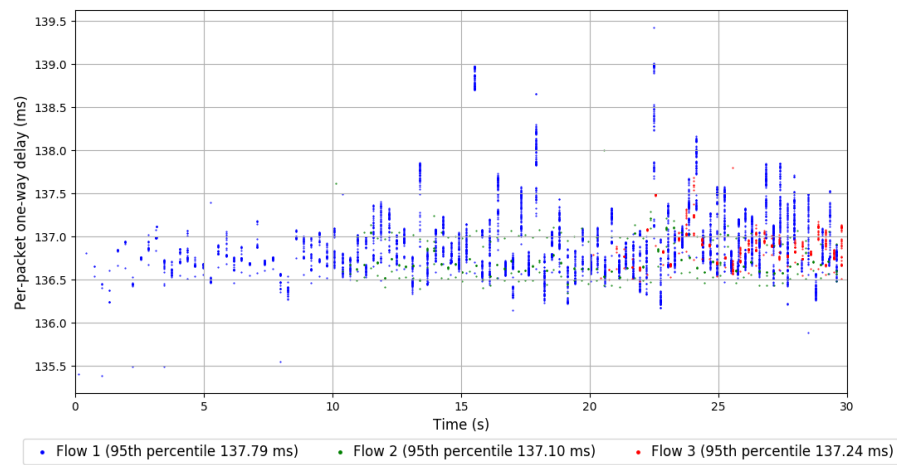
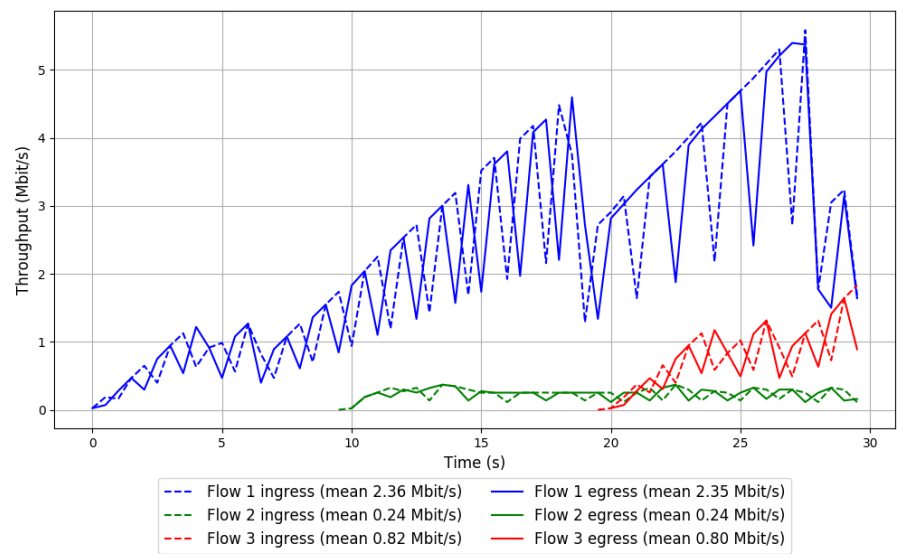
-- Flow 3:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 137.235 ms

Loss rate: 5.74%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-12 13:50:29

End at: 2017-12-12 13:50:59

Below is generated by plot.py at 2017-12-12 16:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 137.318 ms

Loss rate: 2.94%

-- Flow 1:

Average throughput: 1.23 Mbit/s

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

Loss rate: 2.64%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 3.09%

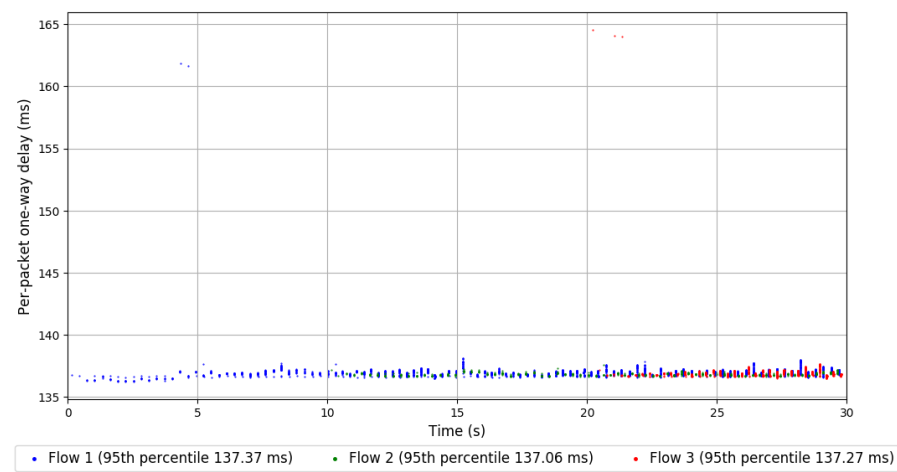
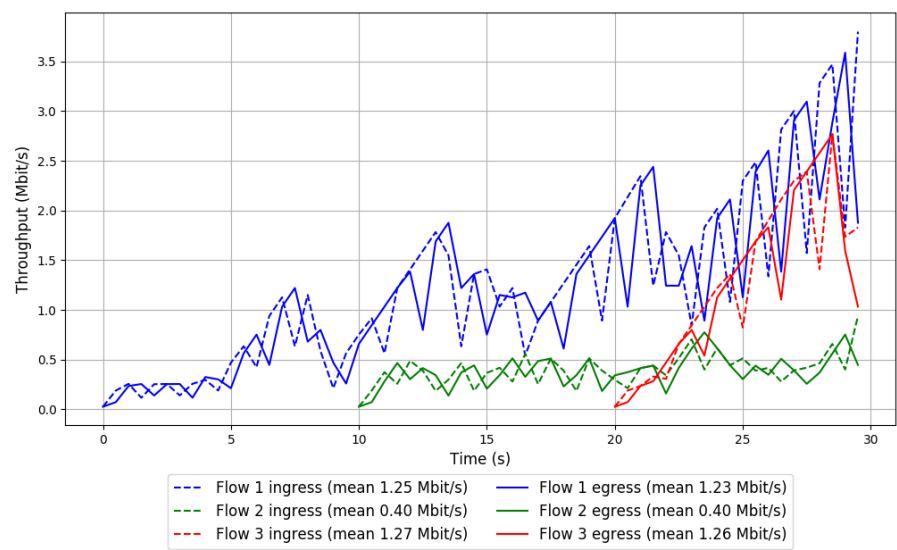
-- Flow 3:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 137.270 ms

Loss rate: 3.73%

Run 10: Report of LEDBAT — Data Link

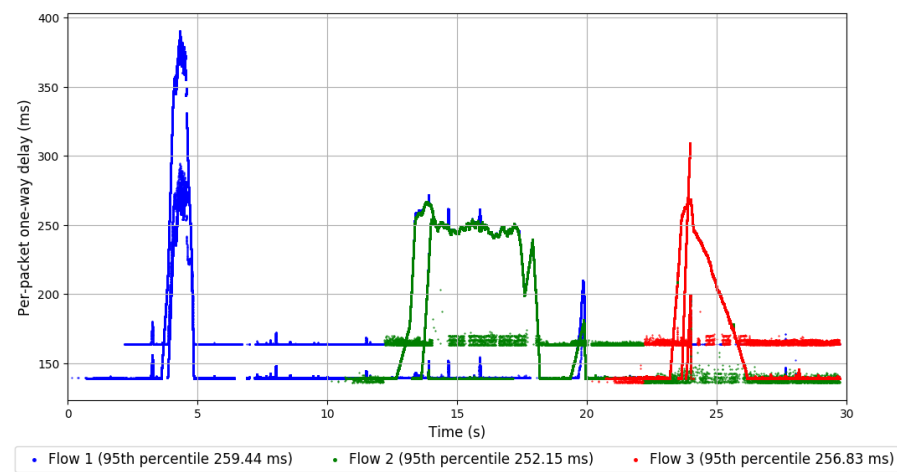
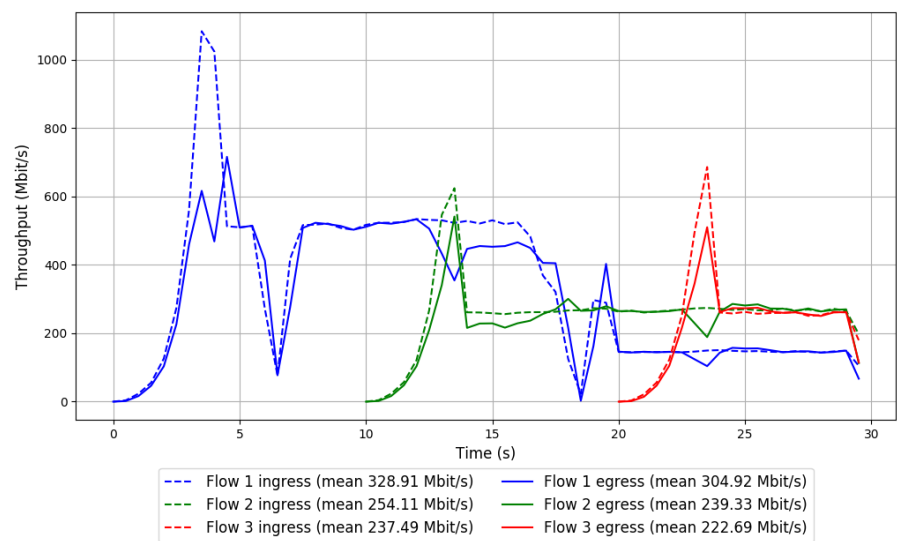


```
Run 1: Statistics of PCC

Start at: 2017-12-12 11:38:21
End at: 2017-12-12 11:38:51

# Below is generated by plot.py at 2017-12-12 16:27:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 535.15 Mbit/s
95th percentile per-packet one-way delay: 257.517 ms
Loss rate: 7.94%
-- Flow 1:
Average throughput: 304.92 Mbit/s
95th percentile per-packet one-way delay: 259.436 ms
Loss rate: 8.15%
-- Flow 2:
Average throughput: 239.33 Mbit/s
95th percentile per-packet one-way delay: 252.154 ms
Loss rate: 7.12%
-- Flow 3:
Average throughput: 222.69 Mbit/s
95th percentile per-packet one-way delay: 256.835 ms
Loss rate: 8.85%
```

Run 1: Report of PCC — Data Link

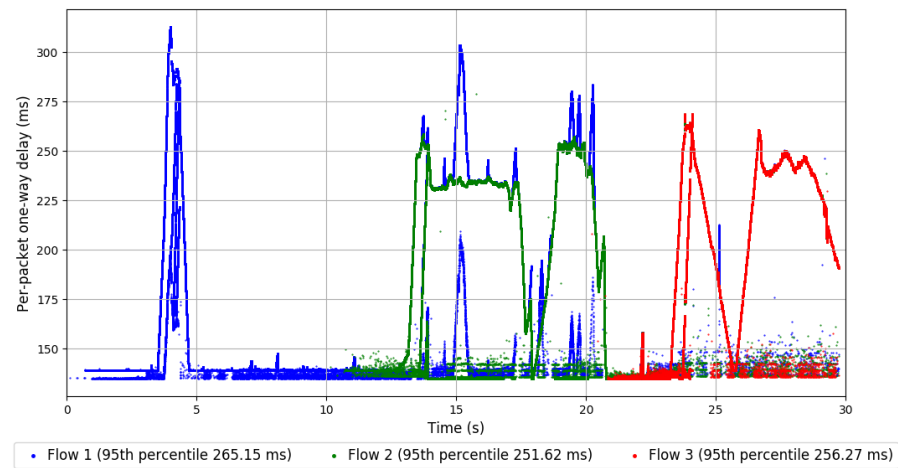
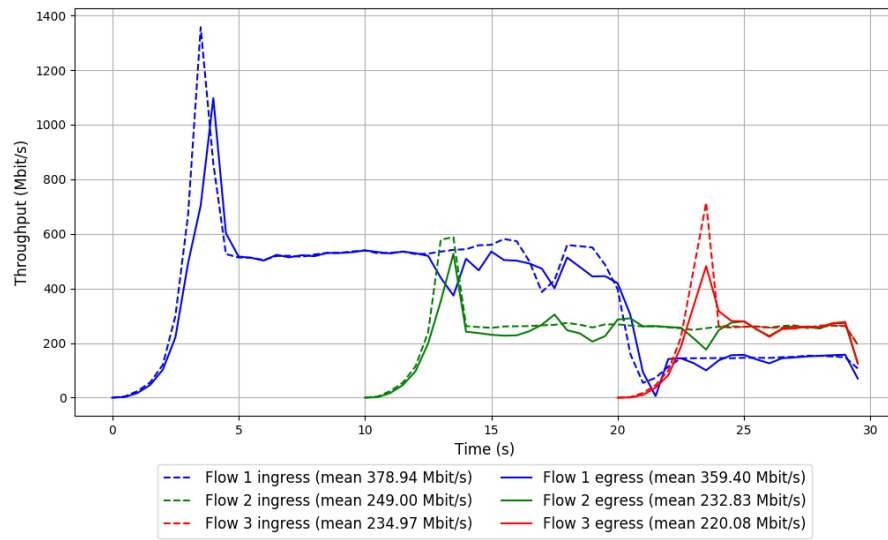


```
Run 2: Statistics of PCC

Start at: 2017-12-12 11:52:00
End at: 2017-12-12 11:52:30

# Below is generated by plot.py at 2017-12-12 16:28:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.04 Mbit/s
95th percentile per-packet one-way delay: 256.456 ms
Loss rate: 6.94%
-- Flow 1:
Average throughput: 359.40 Mbit/s
95th percentile per-packet one-way delay: 265.148 ms
Loss rate: 6.02%
-- Flow 2:
Average throughput: 232.83 Mbit/s
95th percentile per-packet one-way delay: 251.624 ms
Loss rate: 7.80%
-- Flow 3:
Average throughput: 220.08 Mbit/s
95th percentile per-packet one-way delay: 256.266 ms
Loss rate: 9.62%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

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

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

Below is generated by plot.py at 2017-12-12 16:28:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.03 Mbit/s

95th percentile per-packet one-way delay: 245.629 ms

Loss rate: 7.81%

-- Flow 1:

Average throughput: 40.03 Mbit/s

95th percentile per-packet one-way delay: 163.694 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 164.110 ms

Loss rate: 2.58%

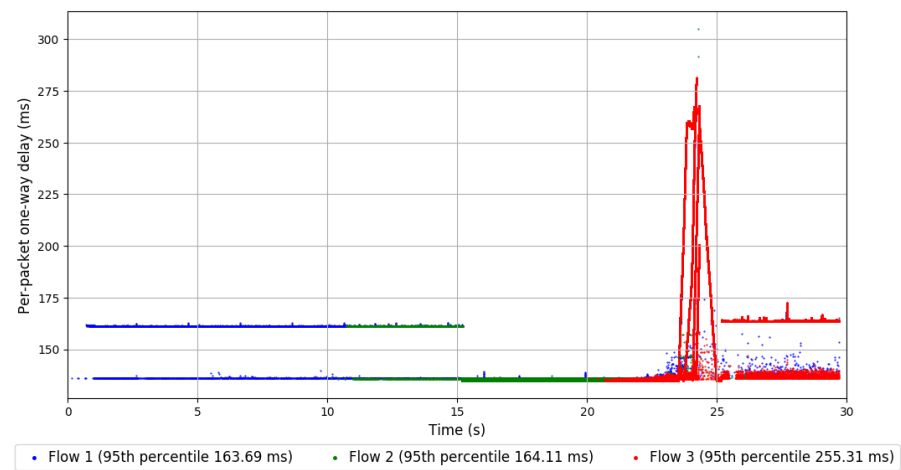
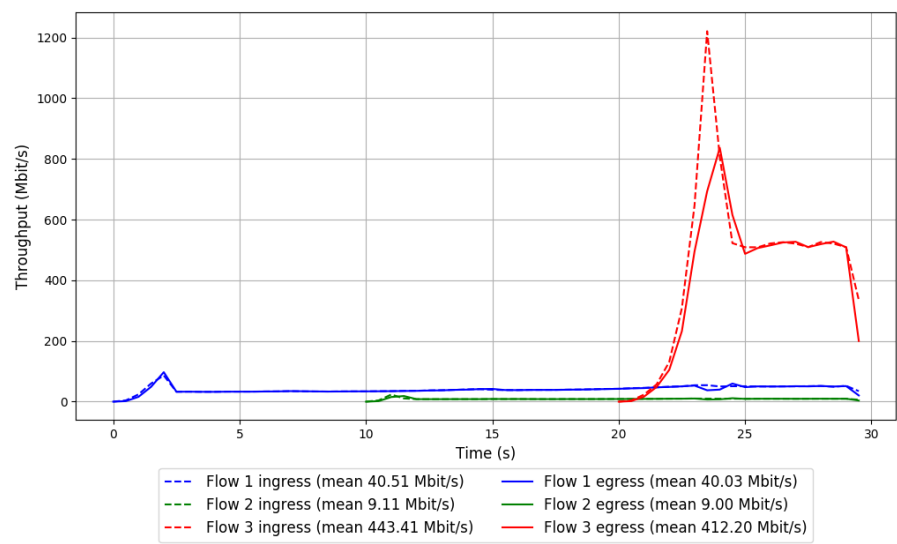
-- Flow 3:

Average throughput: 412.20 Mbit/s

95th percentile per-packet one-way delay: 255.306 ms

Loss rate: 9.62%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-12 12:19:28

End at: 2017-12-12 12:19:58

Below is generated by plot.py at 2017-12-12 16:28:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 563.10 Mbit/s

95th percentile per-packet one-way delay: 310.762 ms

Loss rate: 4.75%

-- Flow 1:

Average throughput: 459.03 Mbit/s

95th percentile per-packet one-way delay: 314.516 ms

Loss rate: 5.20%

-- Flow 2:

Average throughput: 126.50 Mbit/s

95th percentile per-packet one-way delay: 244.804 ms

Loss rate: 2.59%

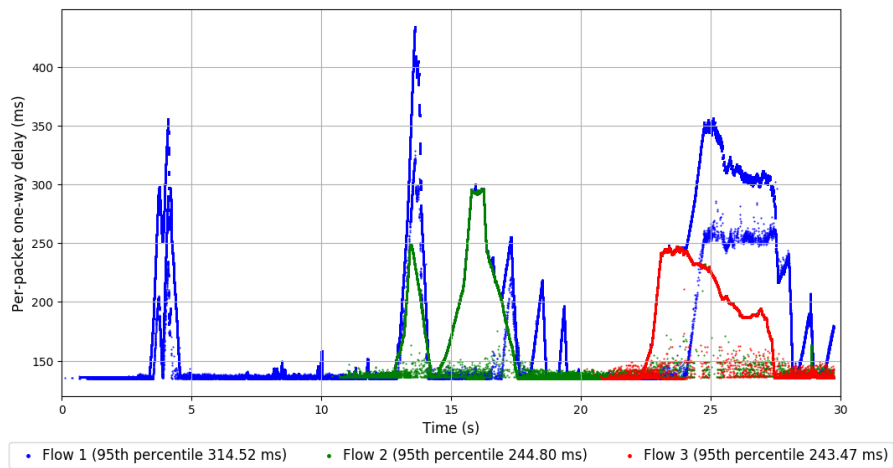
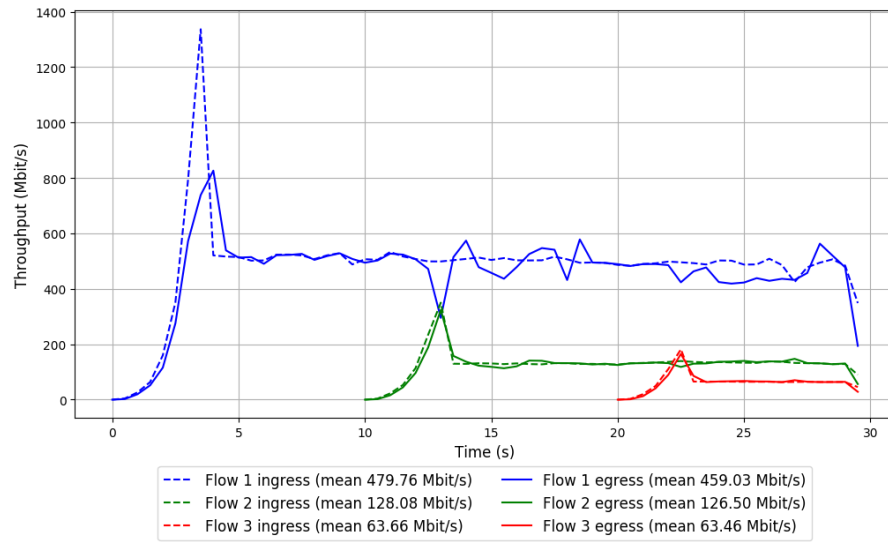
-- Flow 3:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 243.474 ms

Loss rate: 3.18%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-12 12:33:30

End at: 2017-12-12 12:34:00

Below is generated by plot.py at 2017-12-12 16:28:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 560.39 Mbit/s

95th percentile per-packet one-way delay: 261.351 ms

Loss rate: 6.69%

-- Flow 1:

Average throughput: 405.19 Mbit/s

95th percentile per-packet one-way delay: 276.803 ms

Loss rate: 6.38%

-- Flow 2:

Average throughput: 232.55 Mbit/s

95th percentile per-packet one-way delay: 245.366 ms

Loss rate: 7.49%

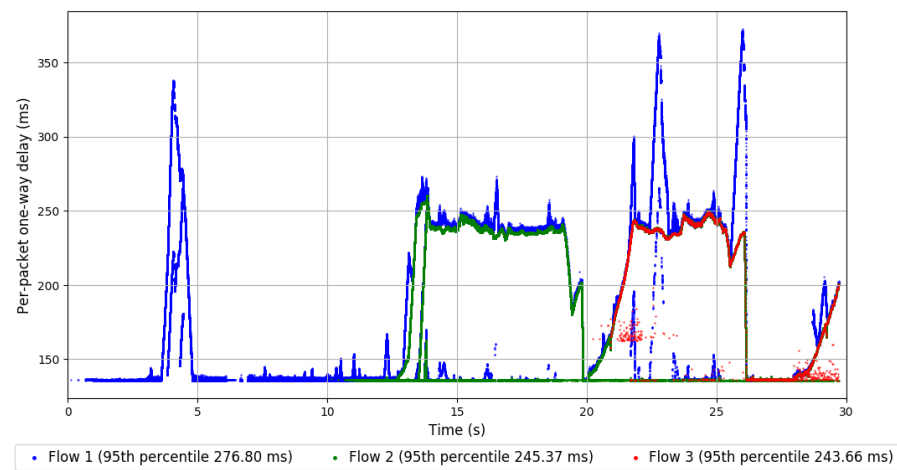
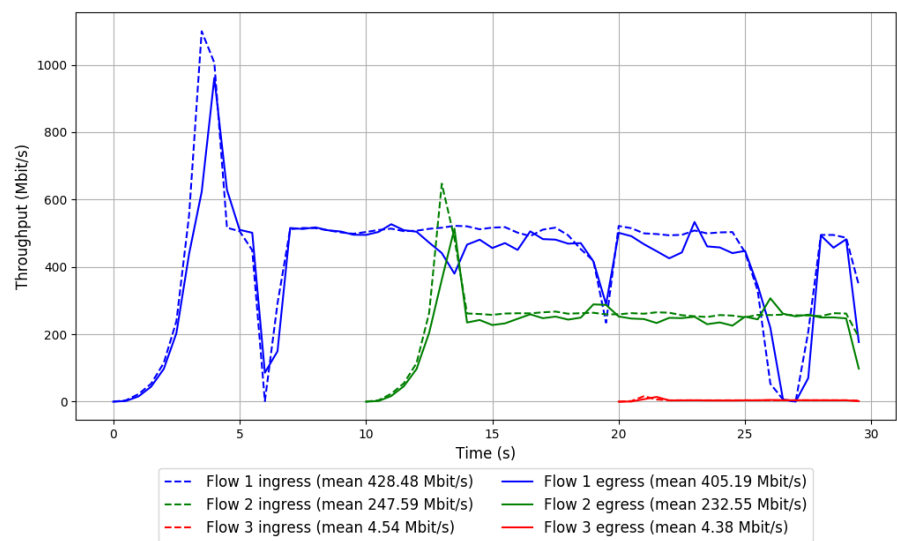
-- Flow 3:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 243.660 ms

Loss rate: 6.75%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-12 12:47:48

End at: 2017-12-12 12:48:18

Below is generated by plot.py at 2017-12-12 16:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 574.72 Mbit/s

95th percentile per-packet one-way delay: 271.611 ms

Loss rate: 4.67%

-- Flow 1:

Average throughput: 524.91 Mbit/s

95th percentile per-packet one-way delay: 272.085 ms

Loss rate: 4.86%

-- Flow 2:

Average throughput: 67.19 Mbit/s

95th percentile per-packet one-way delay: 269.831 ms

Loss rate: 2.41%

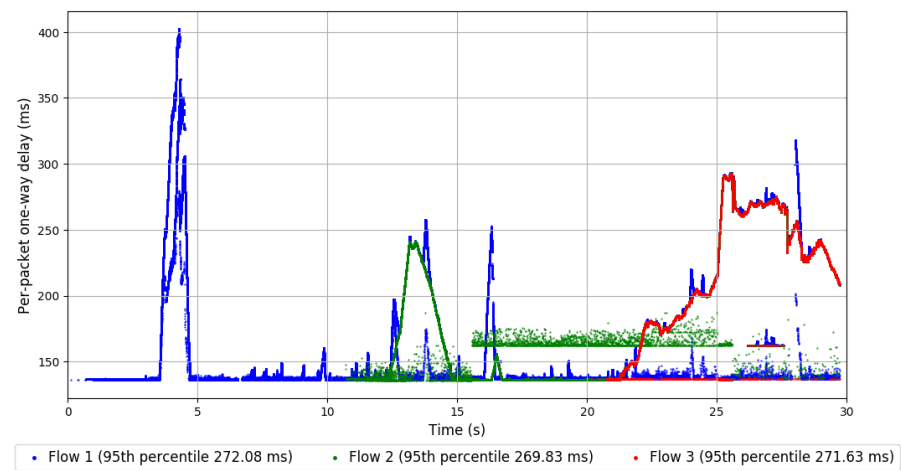
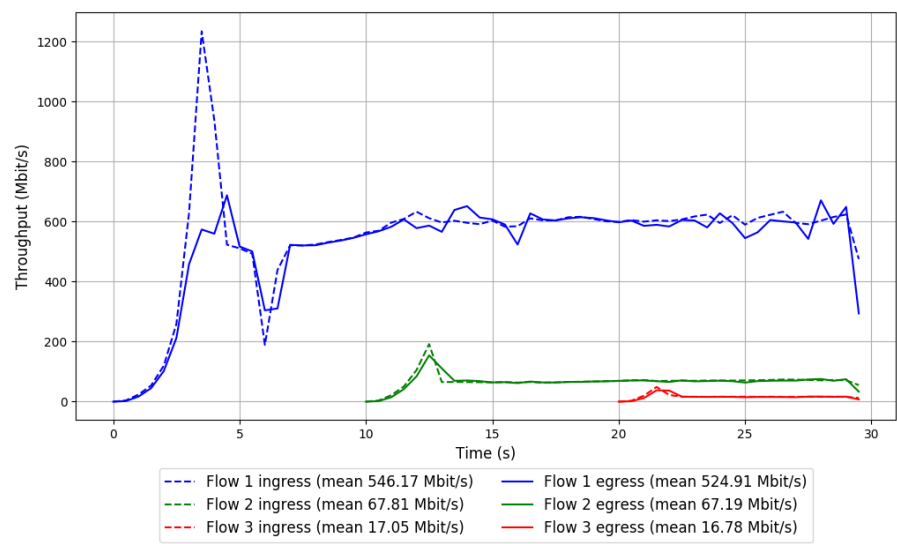
-- Flow 3:

Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 271.627 ms

Loss rate: 4.61%

Run 6: Report of PCC — Data Link

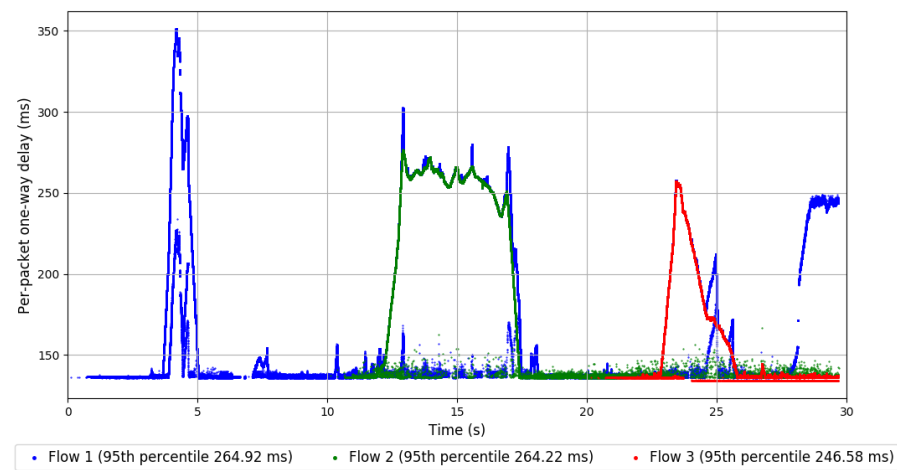
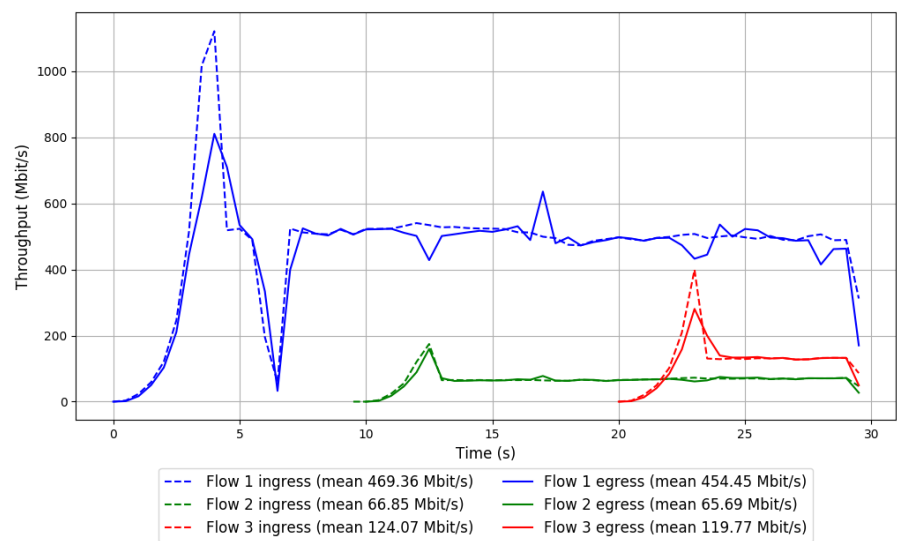


```
Run 7: Statistics of PCC

Start at: 2017-12-12 13:02:10
End at: 2017-12-12 13:02:40

# Below is generated by plot.py at 2017-12-12 16:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 536.55 Mbit/s
95th percentile per-packet one-way delay: 264.375 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 454.45 Mbit/s
95th percentile per-packet one-way delay: 264.924 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 65.69 Mbit/s
95th percentile per-packet one-way delay: 264.218 ms
Loss rate: 3.06%
-- Flow 3:
Average throughput: 119.77 Mbit/s
95th percentile per-packet one-way delay: 246.577 ms
Loss rate: 6.19%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-12 13:16:03

End at: 2017-12-12 13:16:33

Below is generated by plot.py at 2017-12-12 16:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 558.62 Mbit/s

95th percentile per-packet one-way delay: 286.609 ms

Loss rate: 4.33%

-- Flow 1:

Average throughput: 458.03 Mbit/s

95th percentile per-packet one-way delay: 298.392 ms

Loss rate: 4.60%

-- Flow 2:

Average throughput: 135.90 Mbit/s

95th percentile per-packet one-way delay: 234.175 ms

Loss rate: 2.96%

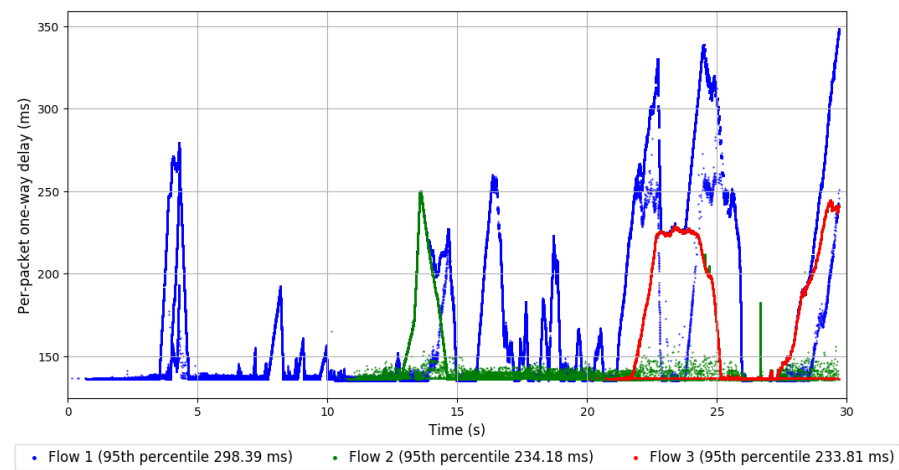
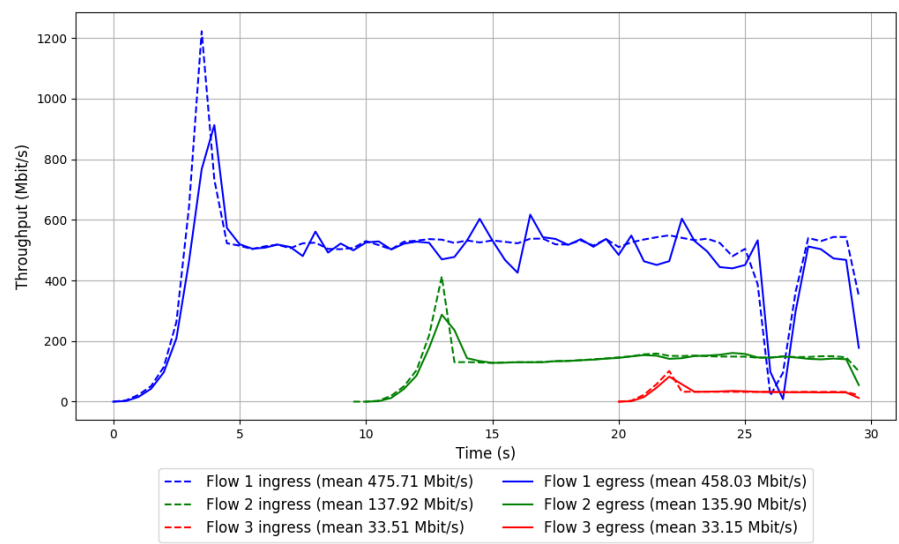
-- Flow 3:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 233.811 ms

Loss rate: 3.84%

Run 8: Report of PCC — Data Link

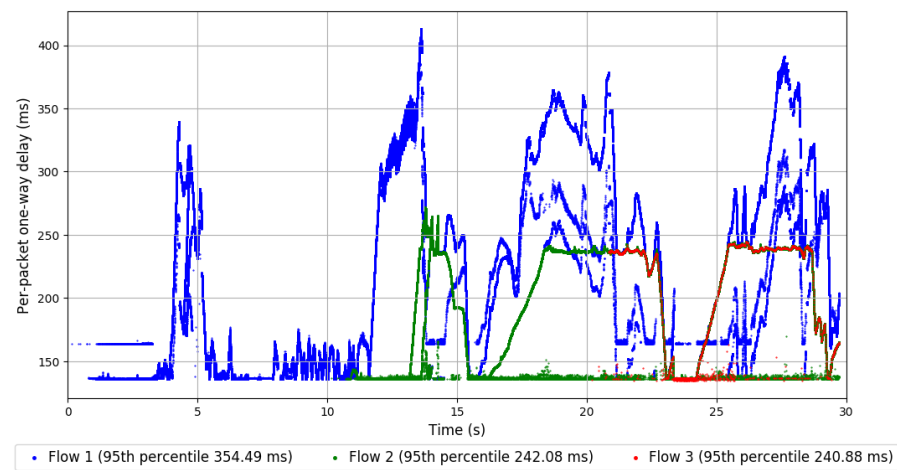
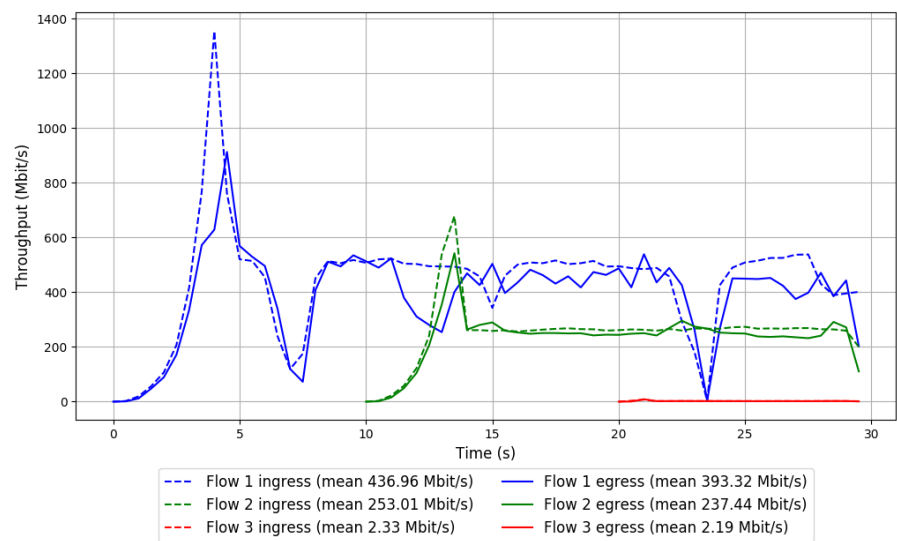


```
Run 9: Statistics of PCC

Start at: 2017-12-12 13:30:20
End at: 2017-12-12 13:30:50

# Below is generated by plot.py at 2017-12-12 16:32:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 551.29 Mbit/s
95th percentile per-packet one-way delay: 347.404 ms
Loss rate: 10.03%
-- Flow 1:
Average throughput: 393.32 Mbit/s
95th percentile per-packet one-way delay: 354.488 ms
Loss rate: 10.98%
-- Flow 2:
Average throughput: 237.44 Mbit/s
95th percentile per-packet one-way delay: 242.084 ms
Loss rate: 7.57%
-- Flow 3:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 240.882 ms
Loss rate: 8.86%
```

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-12 13:44:53

End at: 2017-12-12 13:45:23

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 565.39 Mbit/s

95th percentile per-packet one-way delay: 261.619 ms

Loss rate: 6.28%

-- Flow 1:

Average throughput: 485.49 Mbit/s

95th percentile per-packet one-way delay: 266.885 ms

Loss rate: 6.42%

-- Flow 2:

Average throughput: 119.68 Mbit/s

95th percentile per-packet one-way delay: 242.598 ms

Loss rate: 5.43%

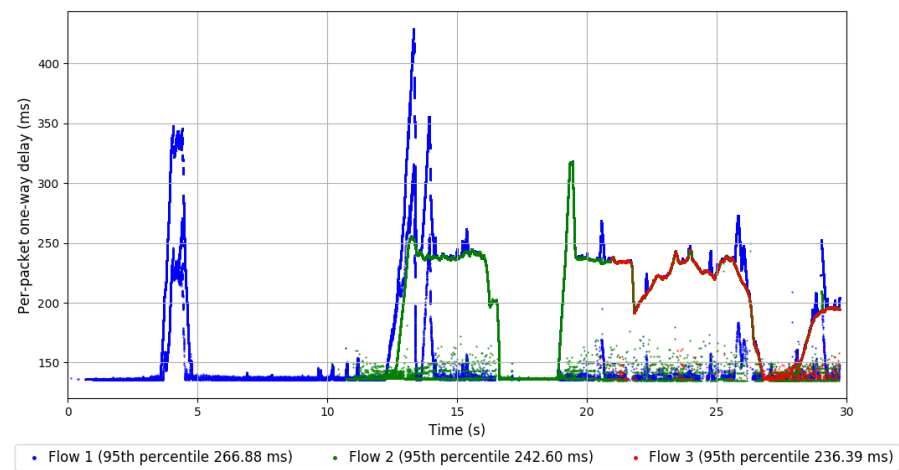
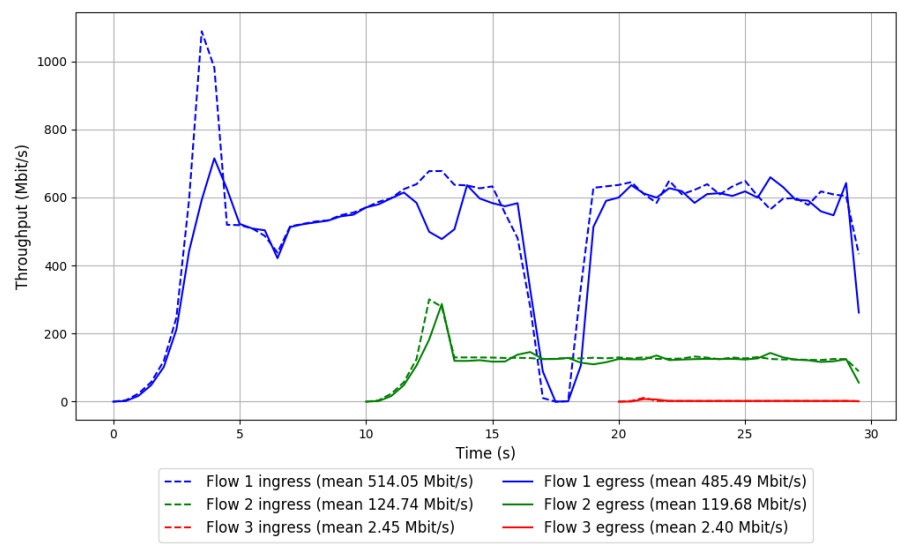
-- Flow 3:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 236.386 ms

Loss rate: 4.71%

Run 10: Report of PCC — Data Link

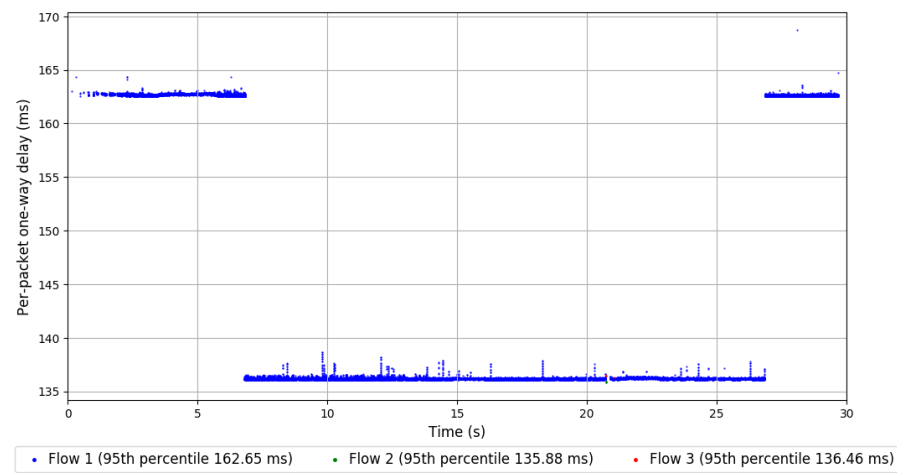
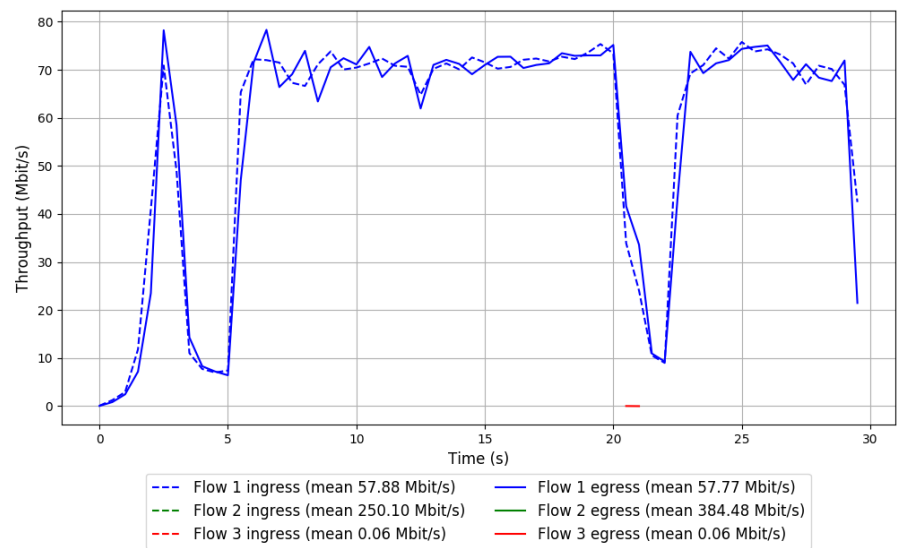


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-12 11:45:37
End at: 2017-12-12 11:46:07

# Below is generated by plot.py at 2017-12-12 16:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.77 Mbit/s
95th percentile per-packet one-way delay: 162.645 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 57.77 Mbit/s
95th percentile per-packet one-way delay: 162.645 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 384.48 Mbit/s
95th percentile per-packet one-way delay: 135.882 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.456 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-12 11:59:17

End at: 2017-12-12 11:59:47

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.21 Mbit/s

95th percentile per-packet one-way delay: 139.055 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 60.15 Mbit/s

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

Loss rate: 1.14%

-- Flow 2:

Average throughput: 48.29 Mbit/s

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

Loss rate: 1.92%

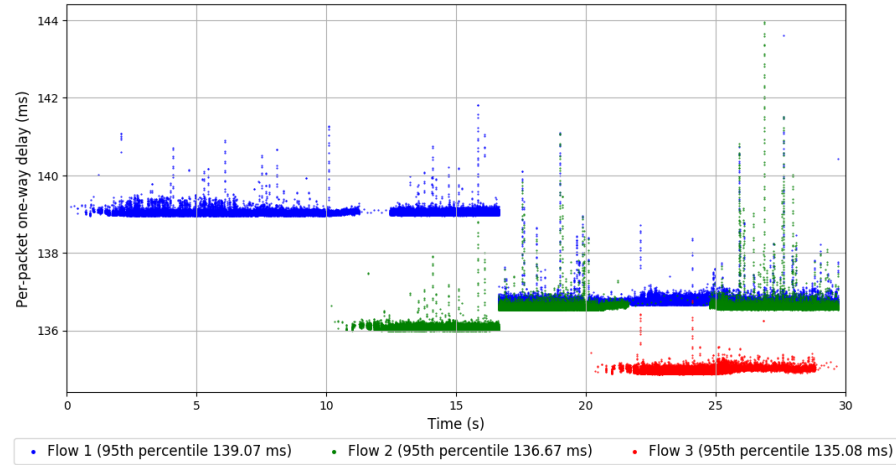
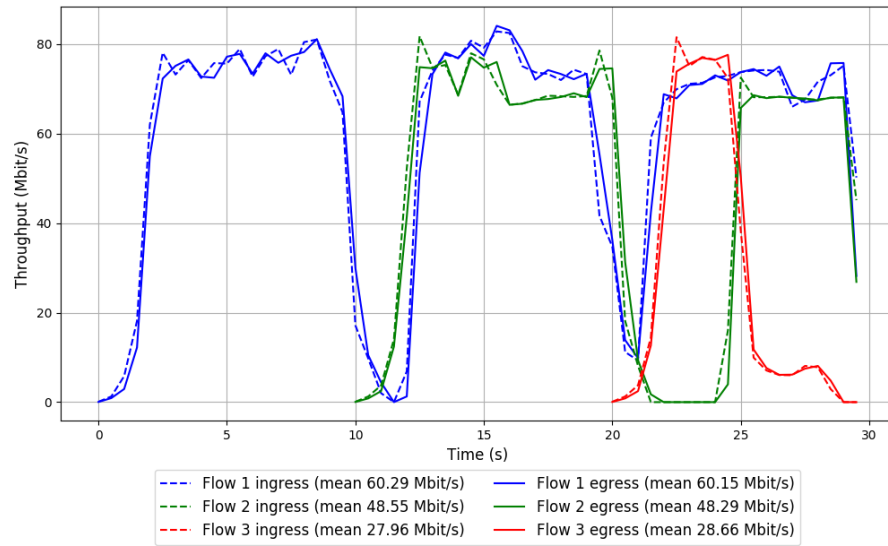
-- Flow 3:

Average throughput: 28.66 Mbit/s

95th percentile per-packet one-way delay: 135.080 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

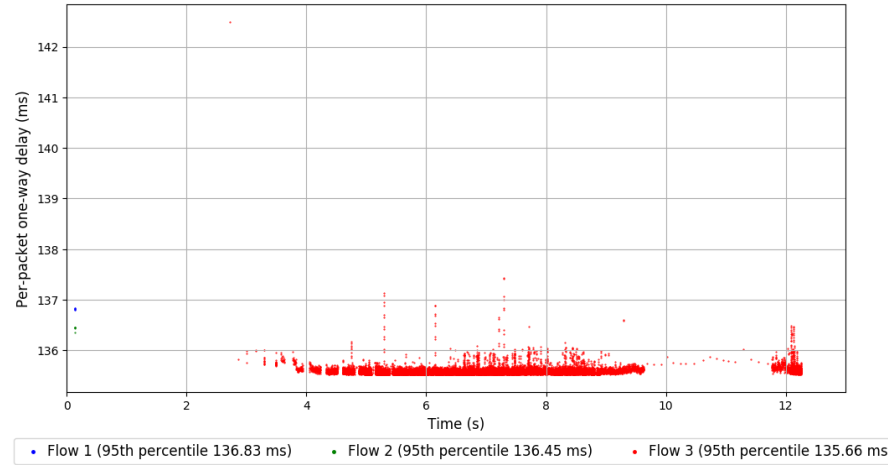
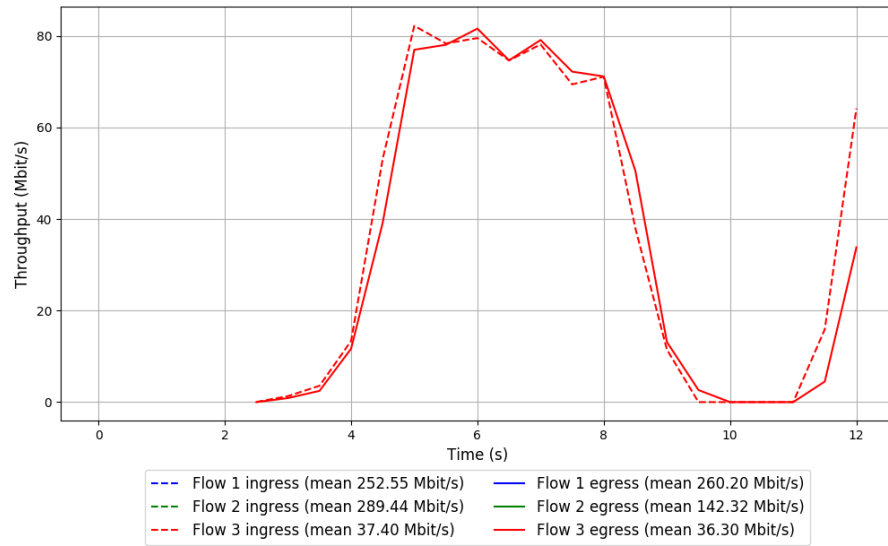


Run 3: Statistics of QUIC Cubic

Start at: 2017-12-12 12:12:52

End at: 2017-12-12 12:13:22

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-12 12:26:41

End at: 2017-12-12 12:27:11

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.59 Mbit/s

95th percentile per-packet one-way delay: 162.488 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 162.509 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 0.86%

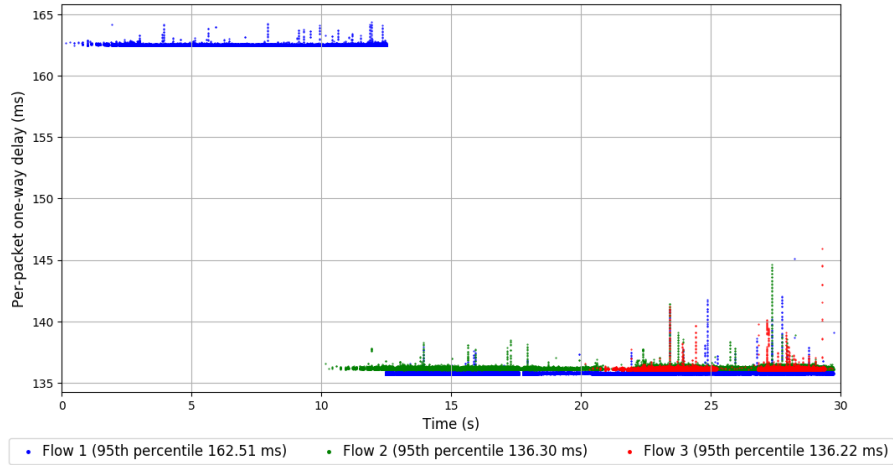
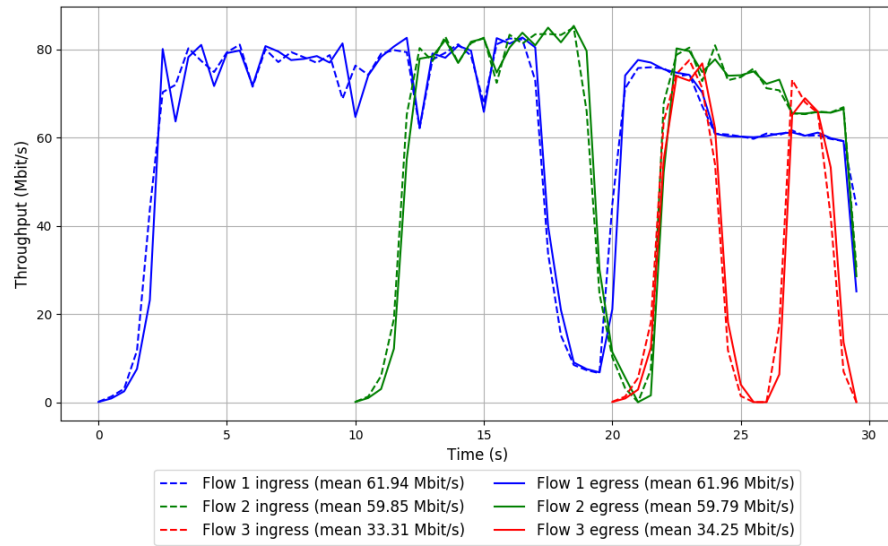
-- Flow 3:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 136.222 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

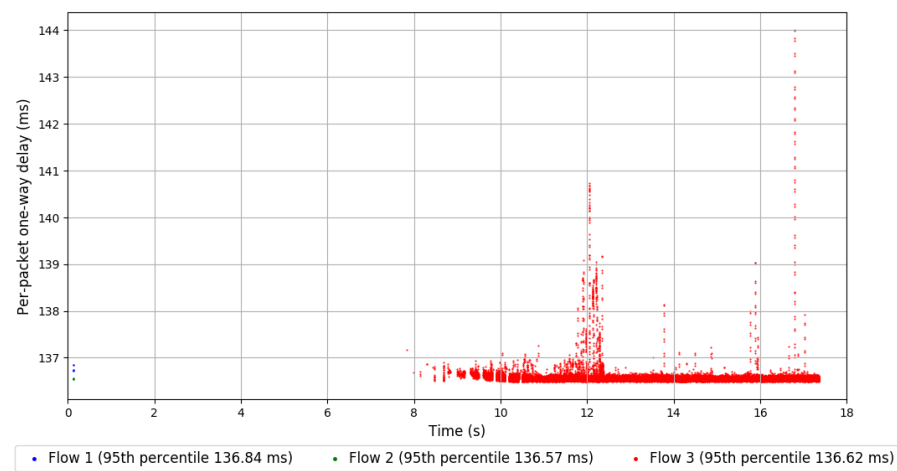
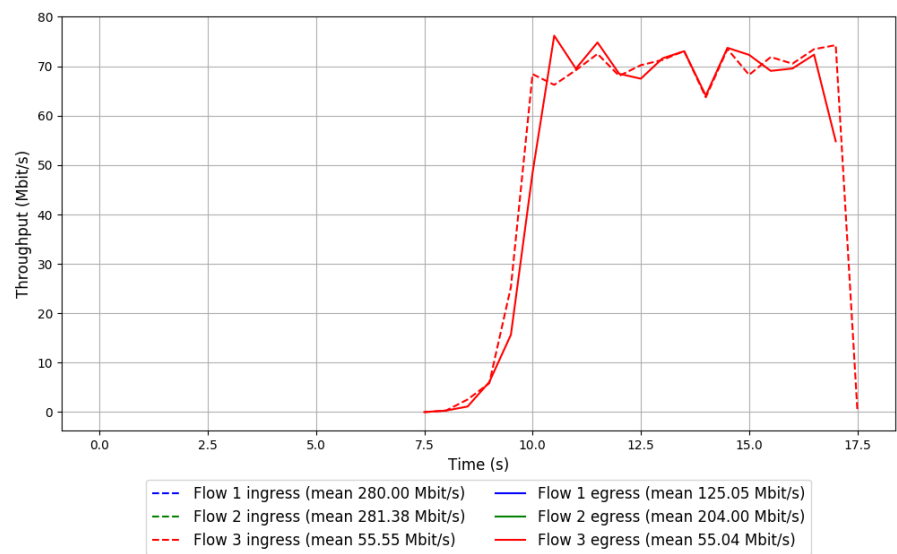


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-12 12:41:05

End at: 2017-12-12 12:41:35

Run 5: Report of QUIC Cubic — Data Link

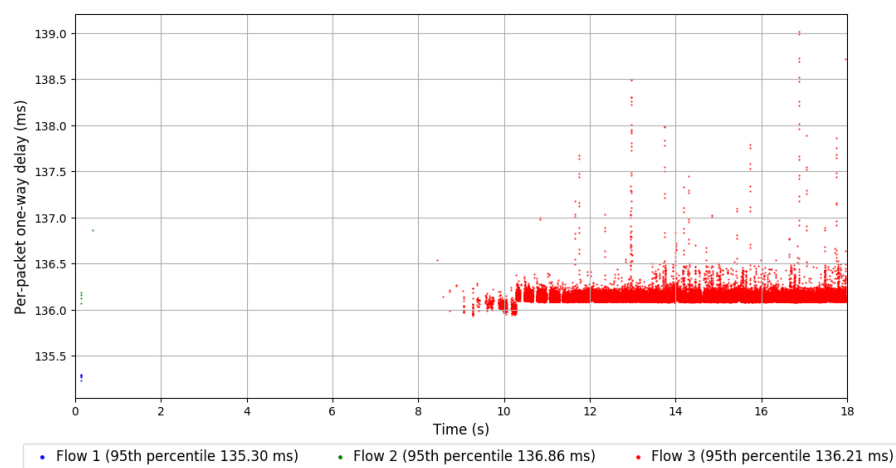
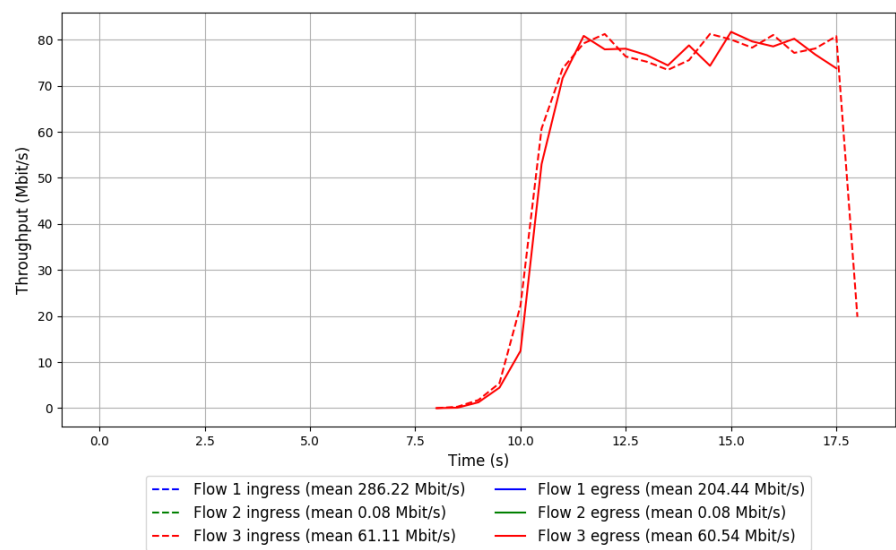


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-12 12:55:22

End at: 2017-12-12 12:55:52

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-12 13:09:16

End at: 2017-12-12 13:09:46

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.65 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 56.49 Mbit/s

95th percentile per-packet one-way delay: 136.291 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 136.056 ms

Loss rate: 0.00%

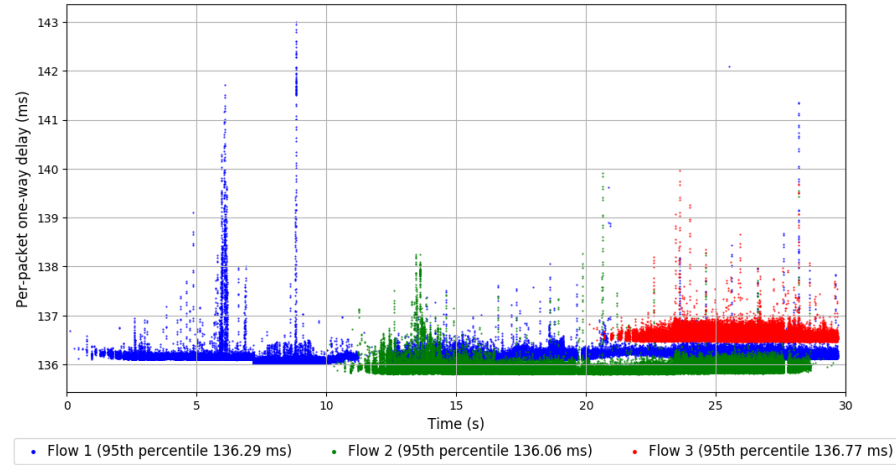
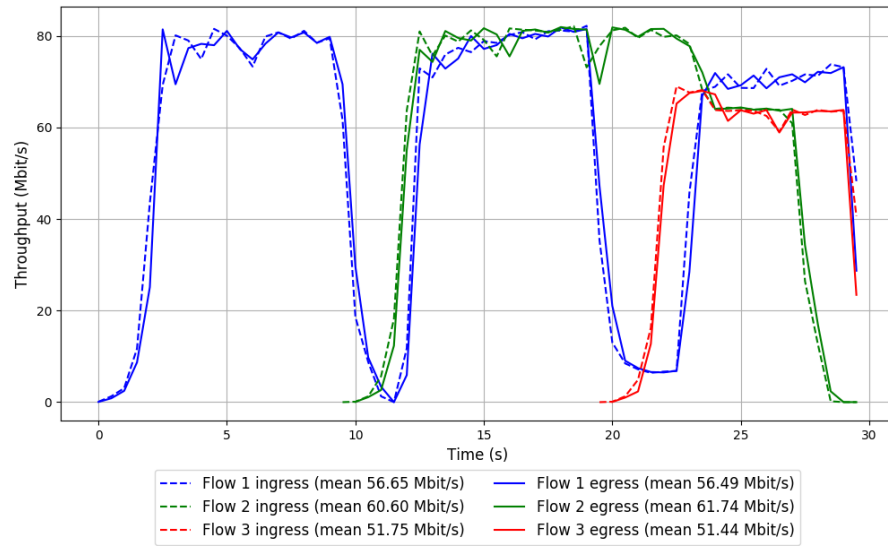
-- Flow 3:

Average throughput: 51.44 Mbit/s

95th percentile per-packet one-way delay: 136.773 ms

Loss rate: 3.38%

Run 7: Report of QUIC Cubic — Data Link

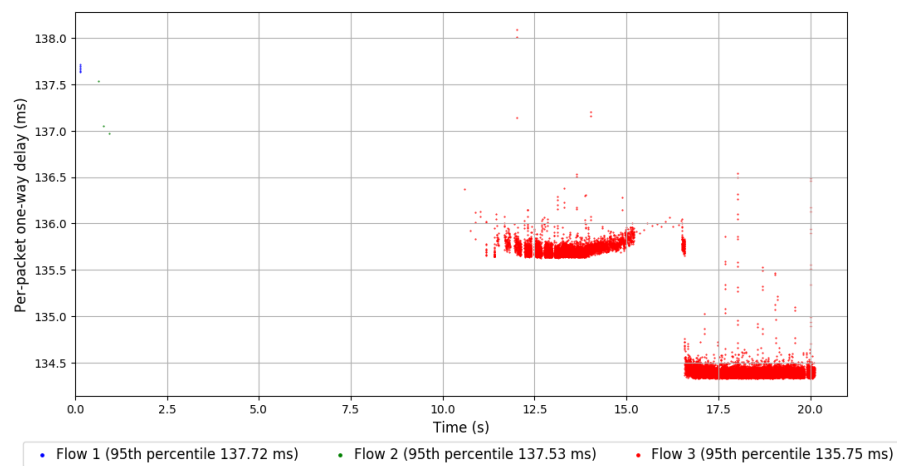
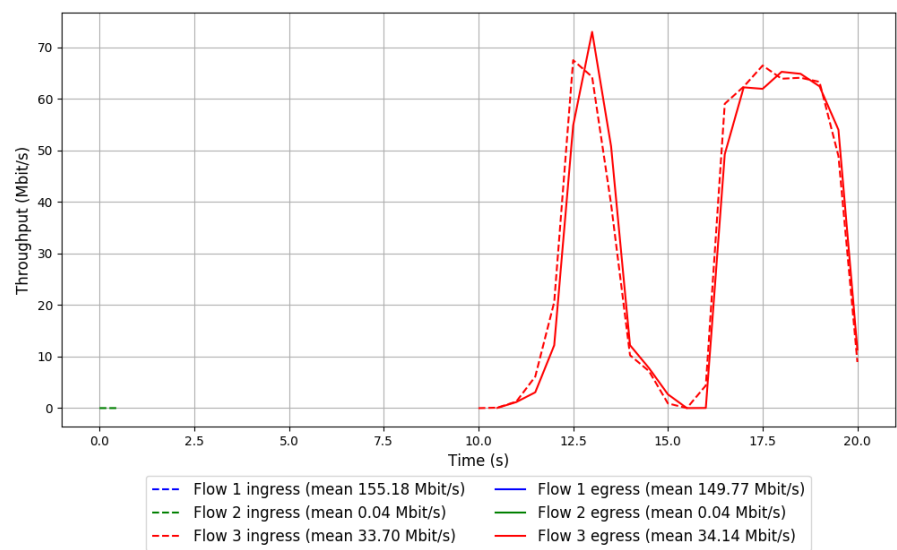


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-12 13:23:37

End at: 2017-12-12 13:24:07

Run 8: Report of QUIC Cubic — Data Link

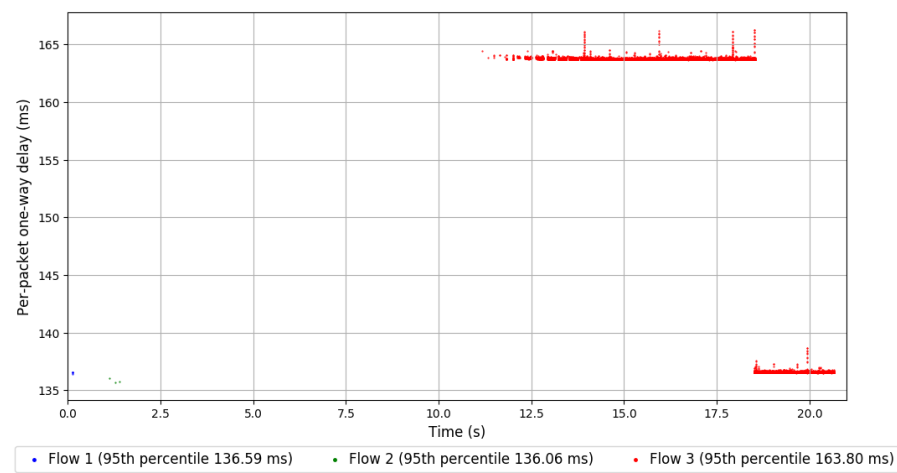
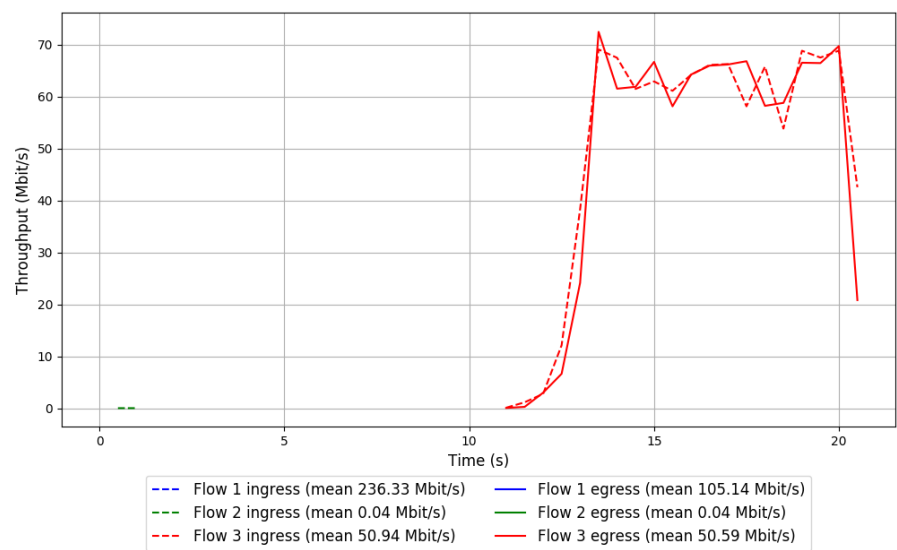


Run 9: Statistics of QUIC Cubic

Start at: 2017-12-12 13:37:56

End at: 2017-12-12 13:38:26

Run 9: Report of QUIC Cubic — Data Link

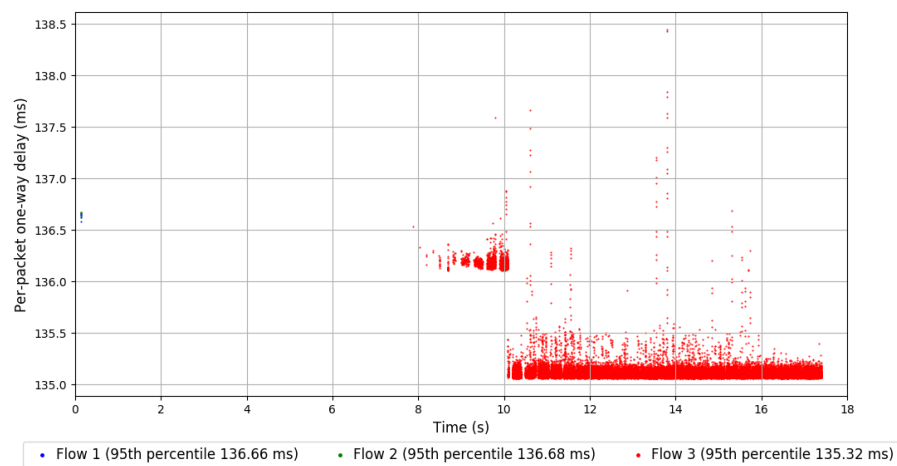
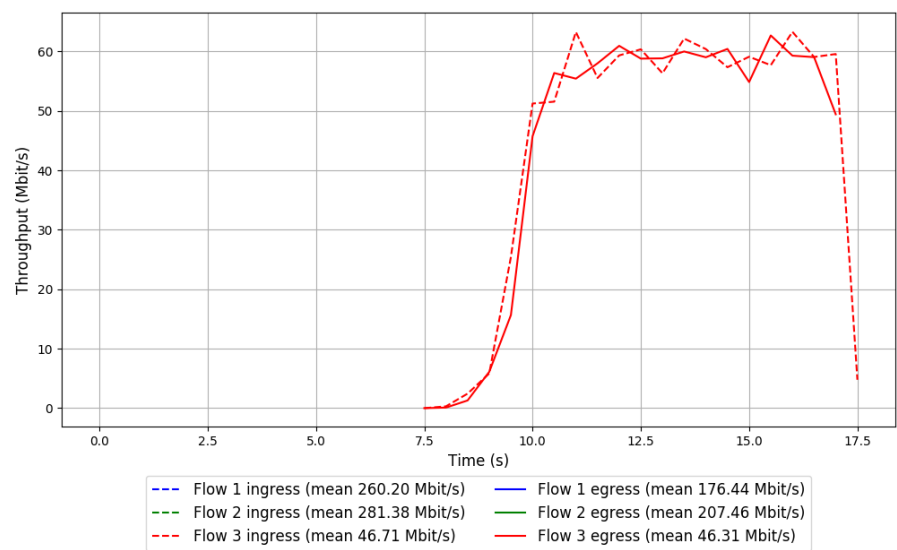


Run 10: Statistics of QUIC Cubic

Start at: 2017-12-12 13:52:21

End at: 2017-12-12 13:52:51

Run 10: Report of QUIC Cubic — Data Link

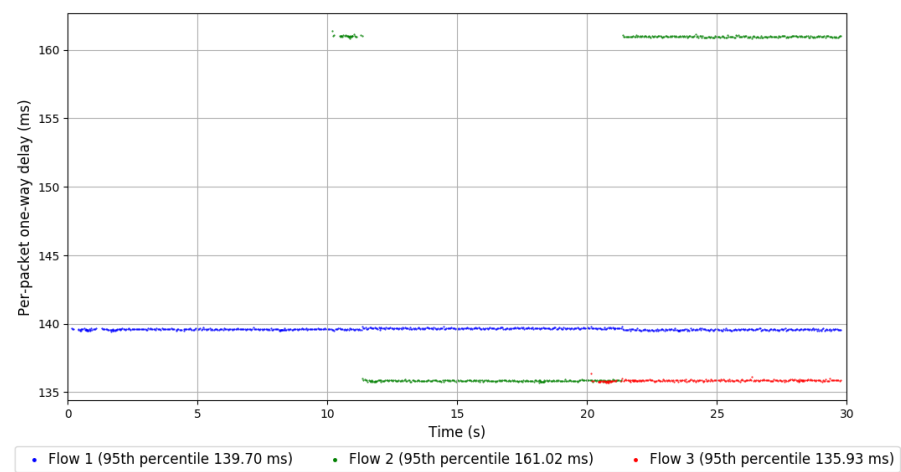
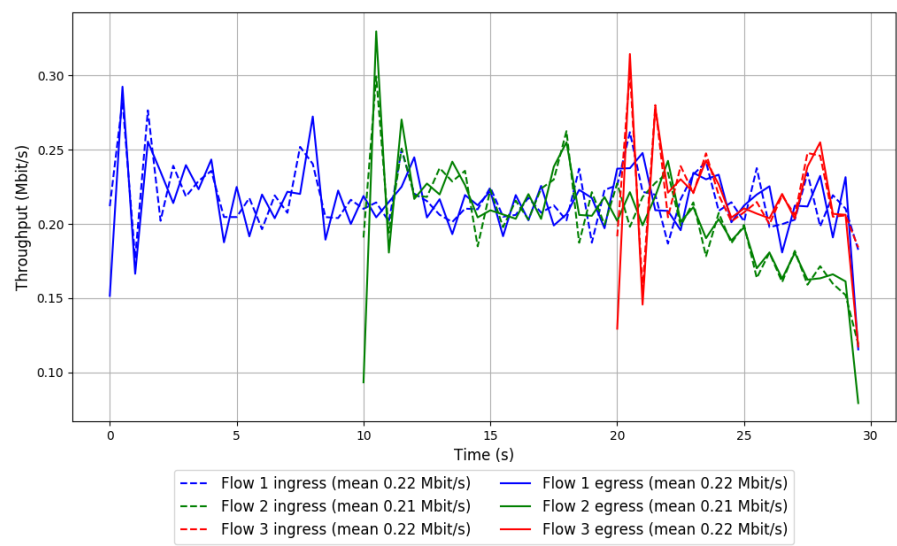


```
Run 1: Statistics of SCReAM

Start at: 2017-12-12 11:35:22
End at: 2017-12-12 11:35:52

# Below is generated by plot.py at 2017-12-12 16:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 160.988 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 139.704 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 161.020 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.927 ms
Loss rate: 2.65%
```

Run 1: Report of SReAM — Data Link

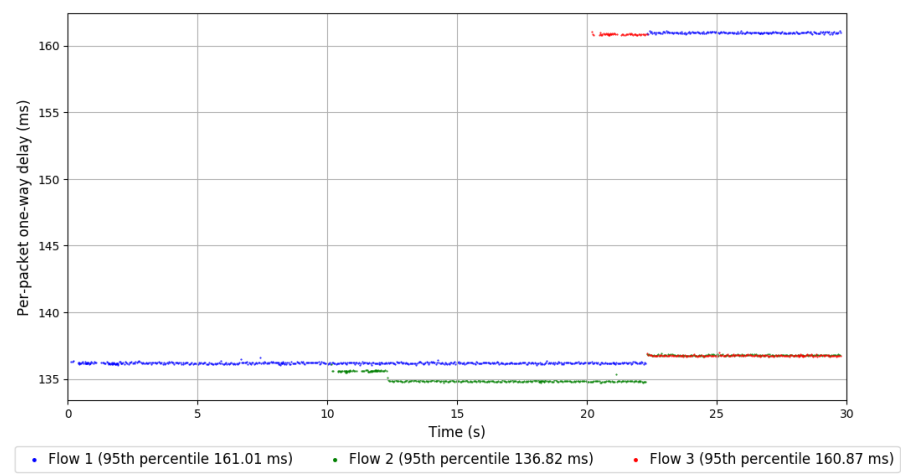
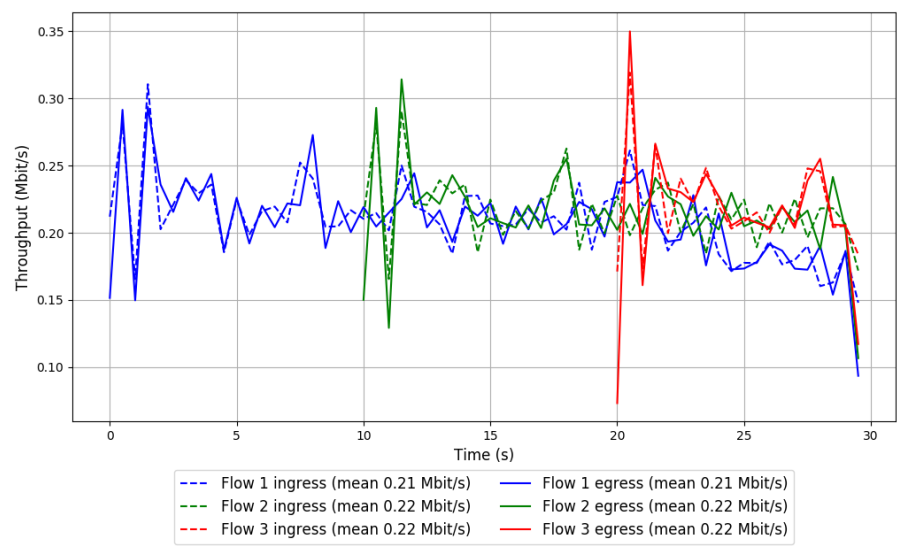


```
Run 2: Statistics of SCReAM

Start at: 2017-12-12 11:49:01
End at: 2017-12-12 11:49:31

# Below is generated by plot.py at 2017-12-12 16:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 160.981 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 161.009 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.821 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.869 ms
Loss rate: 2.64%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-12 12:02:45

End at: 2017-12-12 12:03:15

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 139.169 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.858 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.198 ms

Loss rate: 1.43%

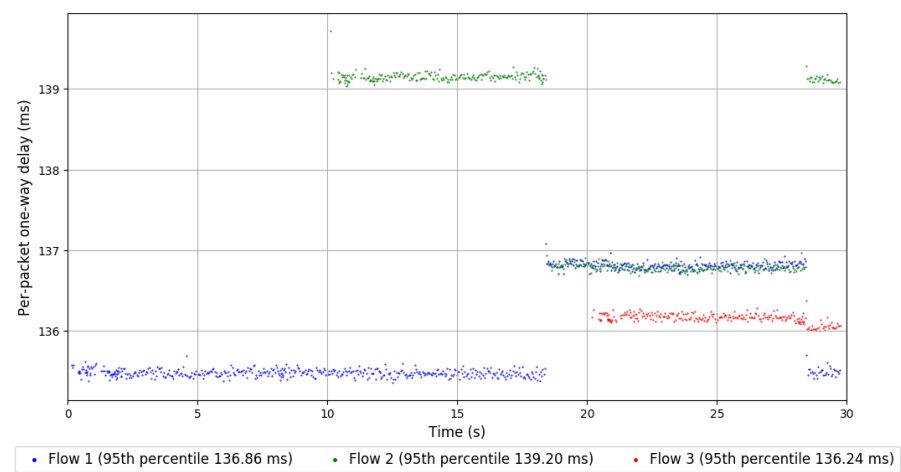
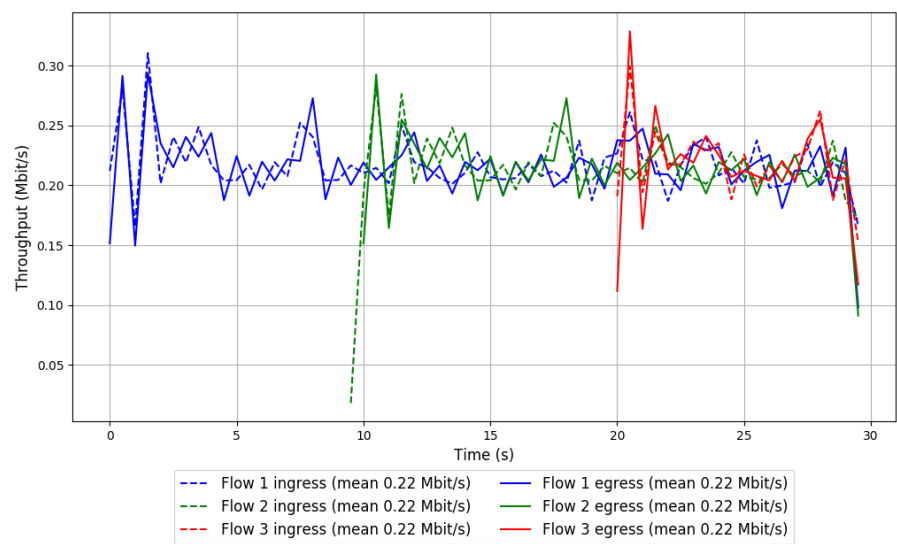
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.239 ms

Loss rate: 2.31%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-12 12:16:27

End at: 2017-12-12 12:16:57

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.126 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.446 ms

Loss rate: 1.42%

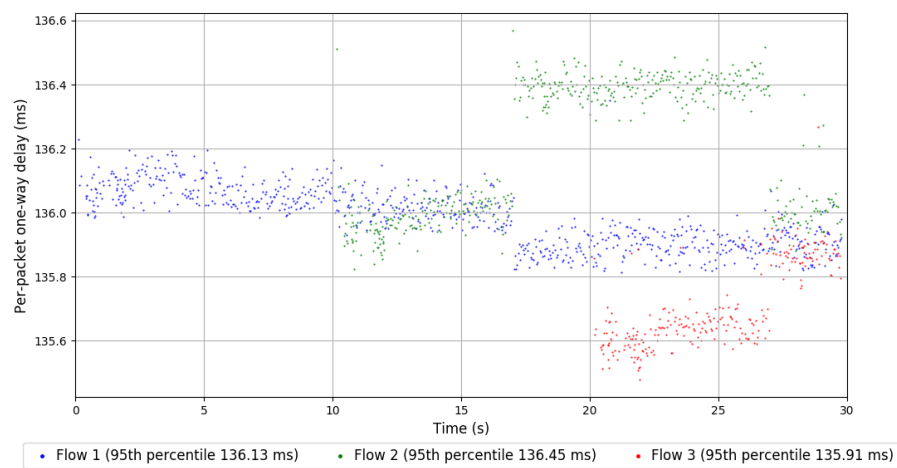
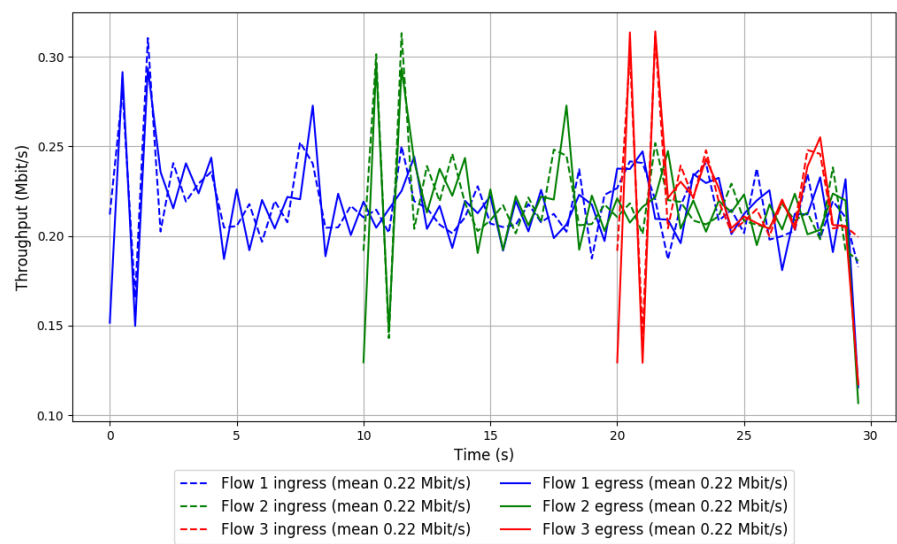
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.915 ms

Loss rate: 2.97%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

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

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

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 160.626 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 160.620 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 162.376 ms

Loss rate: 1.45%

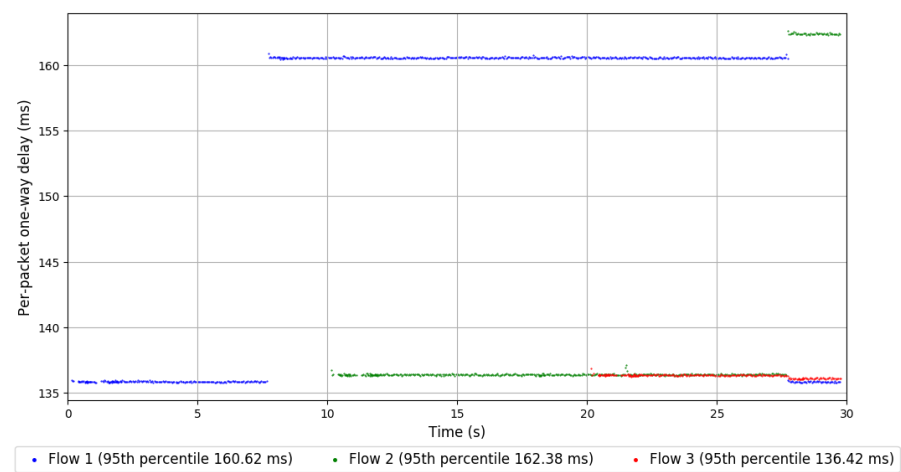
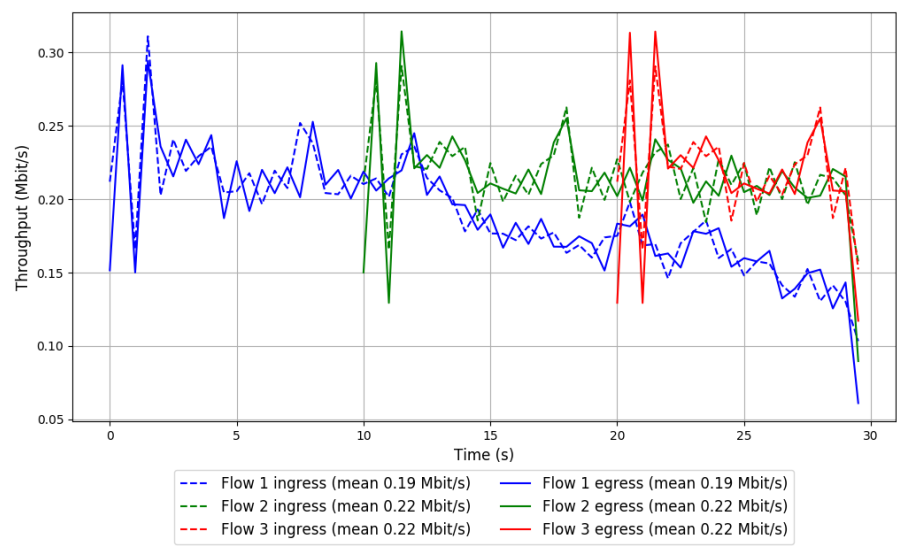
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 2.29%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

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

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

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 160.647 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.955 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 160.678 ms

Loss rate: 1.22%

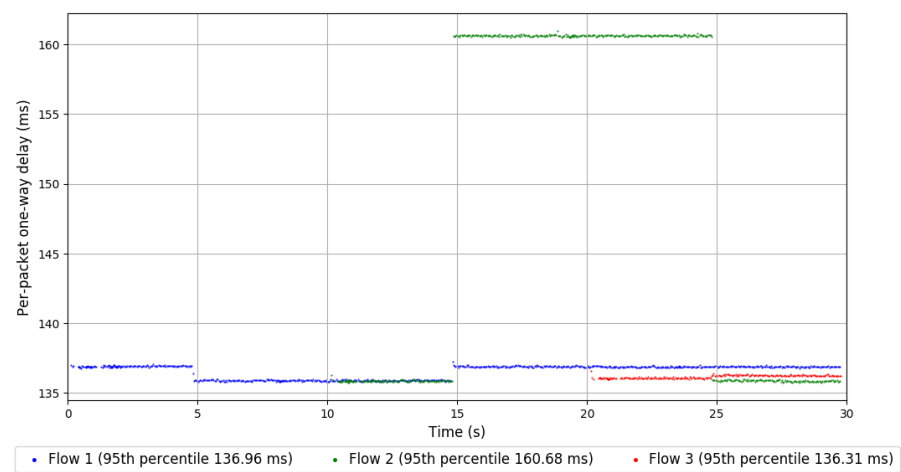
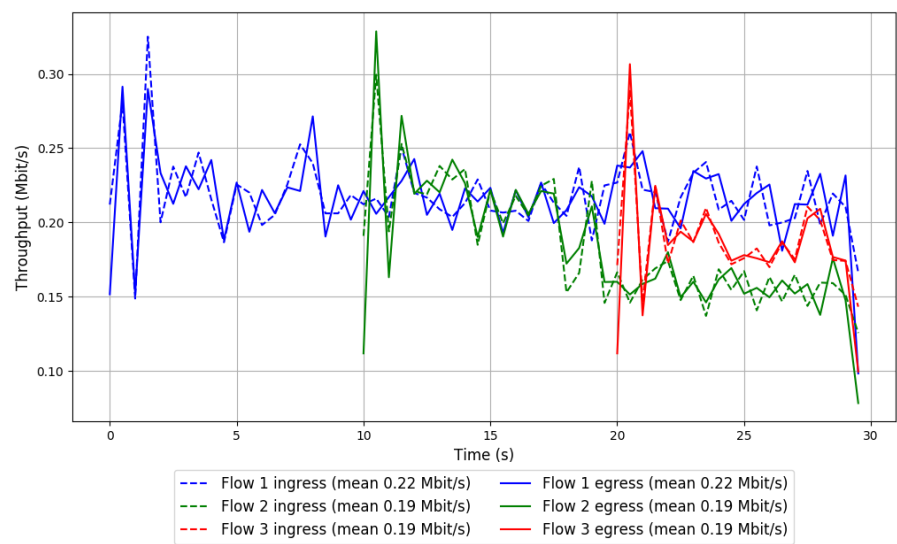
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 136.315 ms

Loss rate: 2.28%

Run 6: Report of SCRaM — Data Link



Run 7: Statistics of SReAM

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

End at: 2017-12-12 12:59:38

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.333 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.258 ms

Loss rate: 1.44%

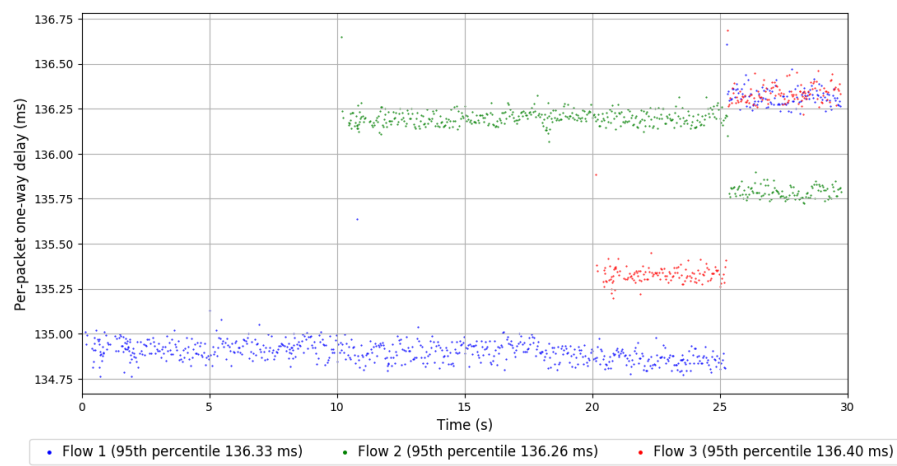
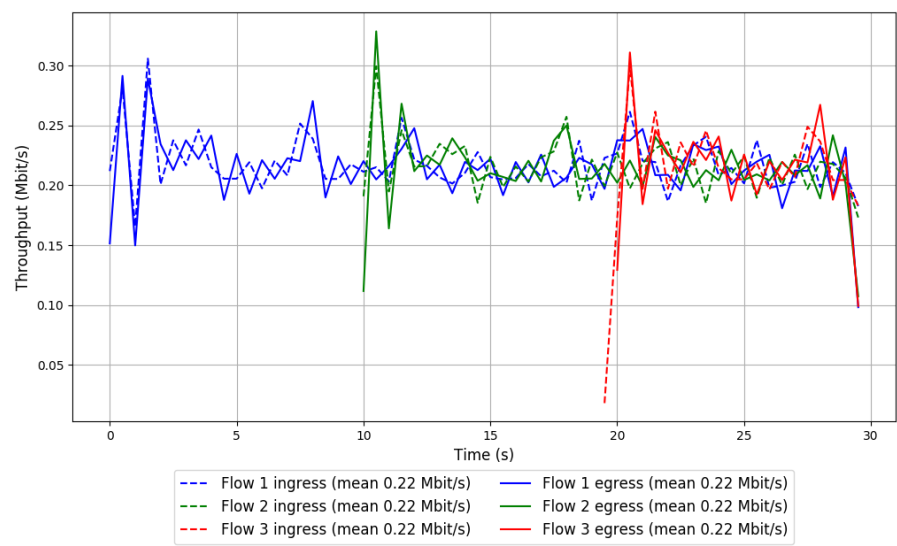
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.398 ms

Loss rate: 3.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-12-12 13:13:04

End at: 2017-12-12 13:13:34

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.277 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.241 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.307 ms

Loss rate: 1.43%

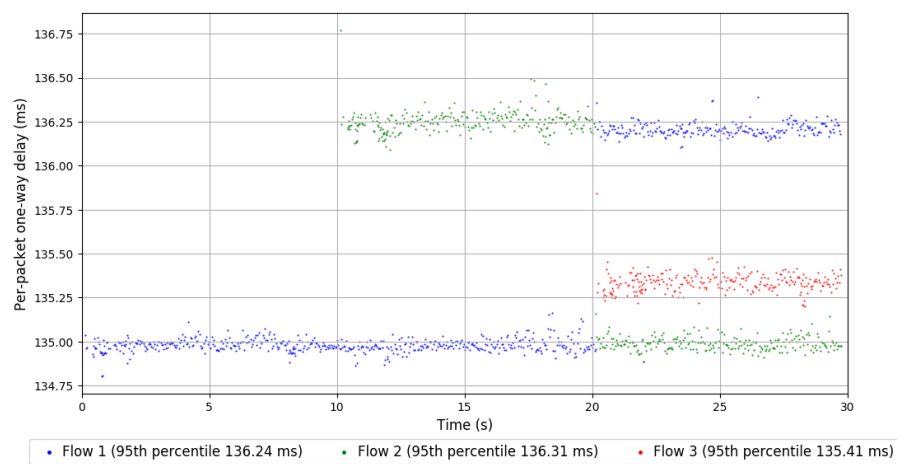
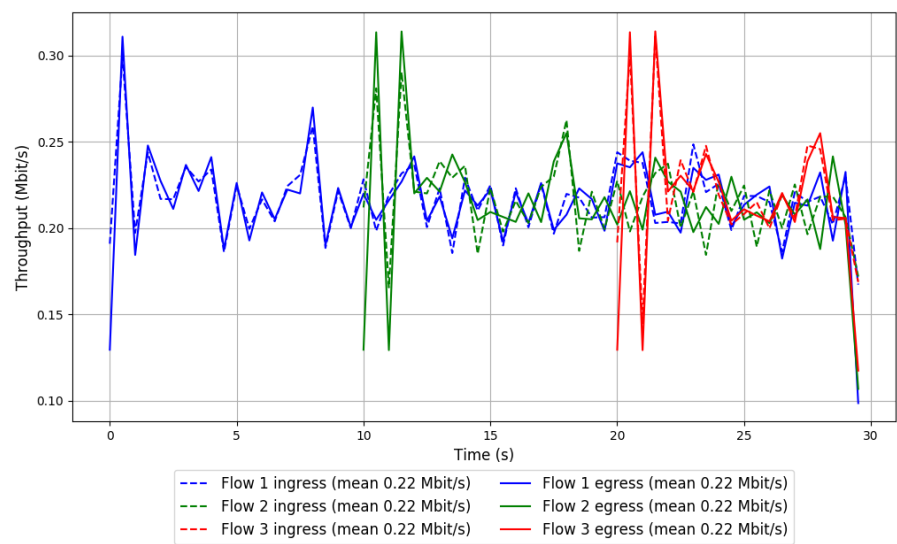
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.411 ms

Loss rate: 2.29%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-12 13:27:17

End at: 2017-12-12 13:27:47

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.941 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.963 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 1.44%

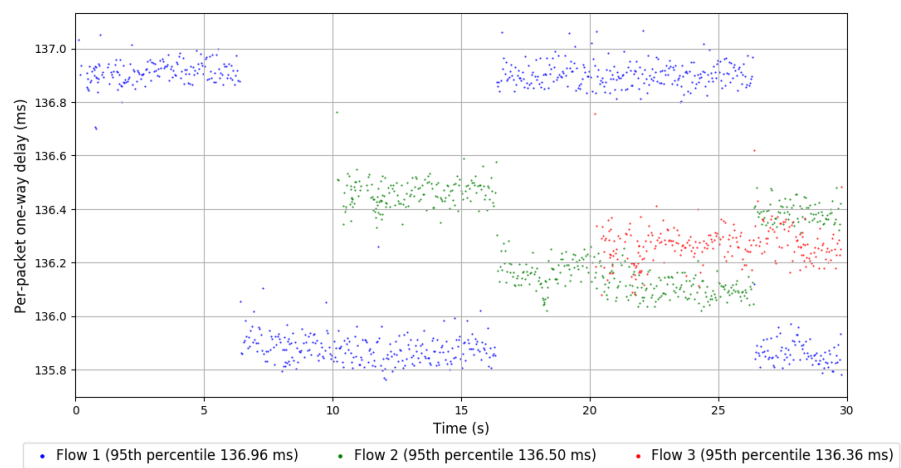
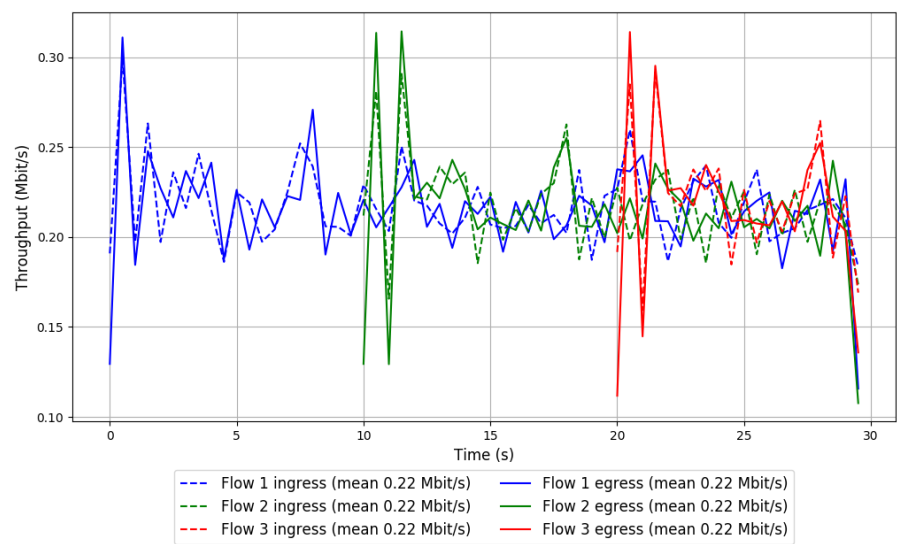
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.361 ms

Loss rate: 2.30%

Run 9: Report of SReAM — Data Link

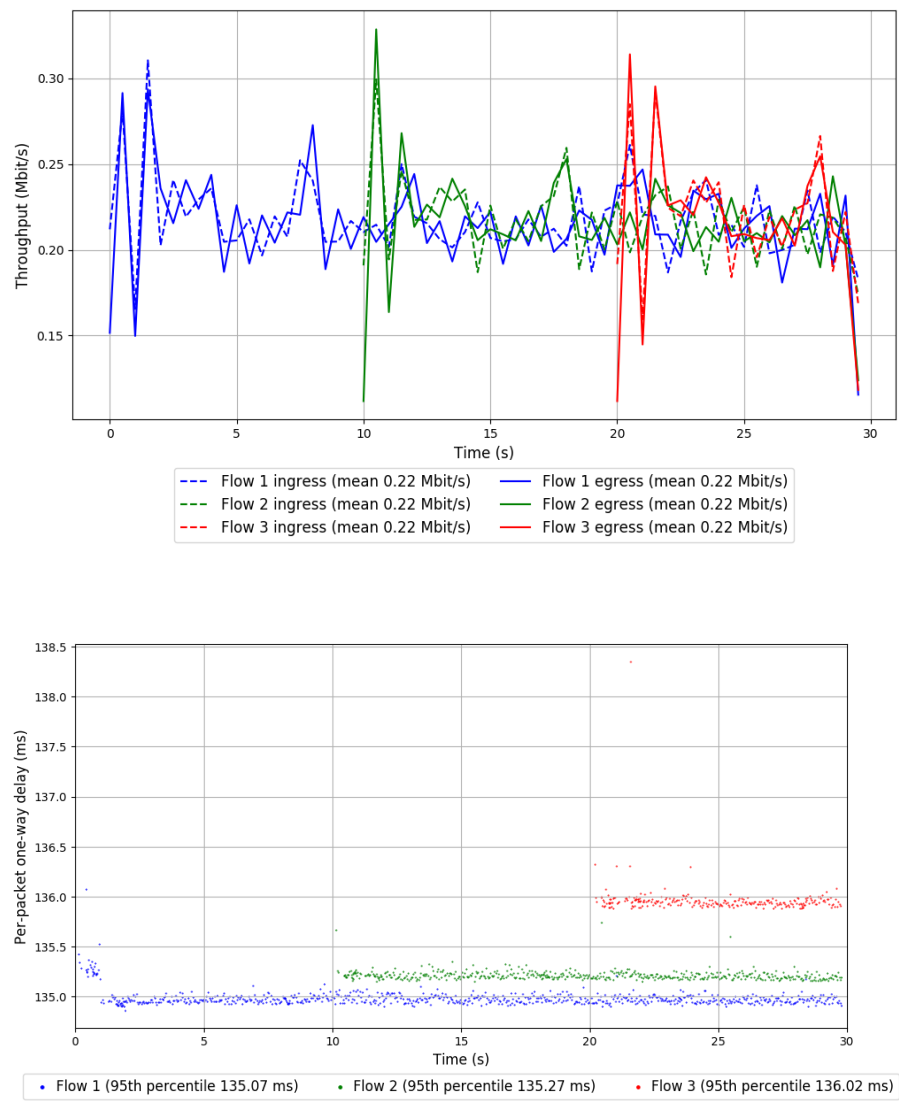


```
Run 10: Statistics of SReAM

Start at: 2017-12-12 13:41:53
End at: 2017-12-12 13:42:23

# Below is generated by plot.py at 2017-12-12 16:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 135.965 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.071 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.273 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.021 ms
Loss rate: 2.68%
```

Run 10: Report of SReAM — Data Link

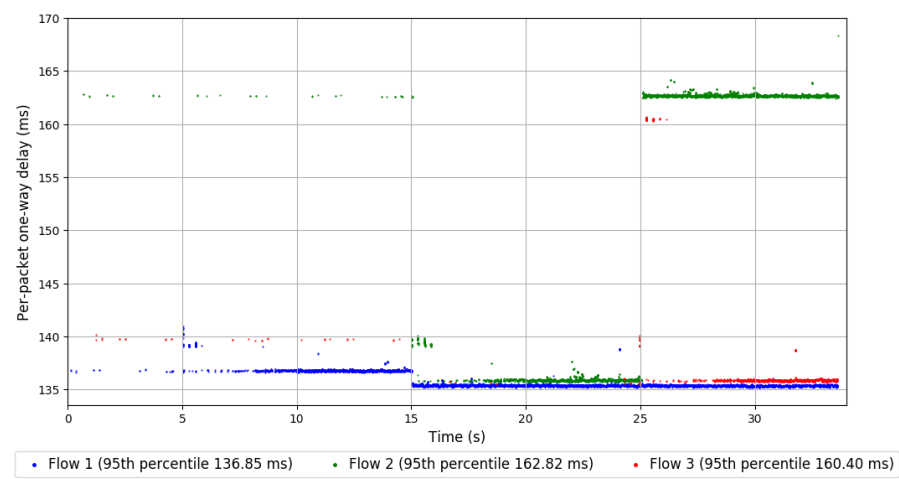
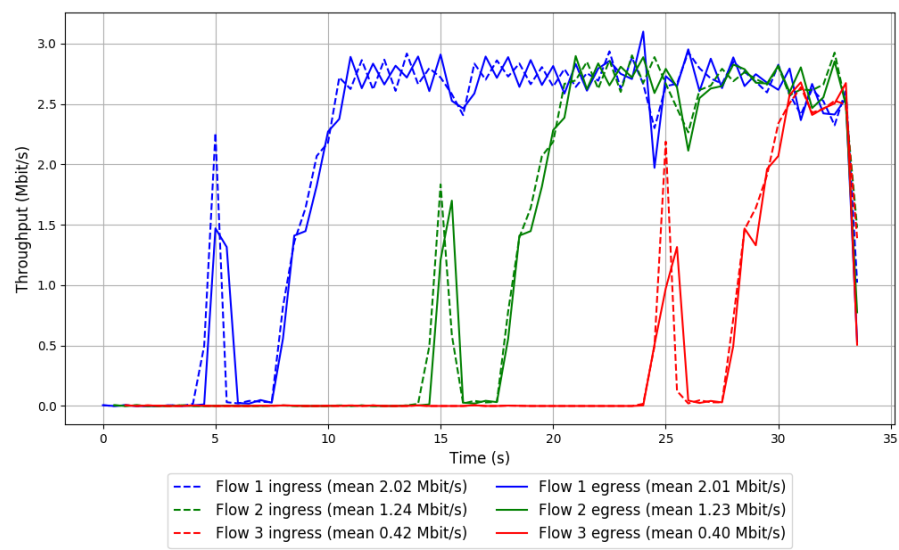


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-12 11:47:22
End at: 2017-12-12 11:47:52

# Below is generated by plot.py at 2017-12-12 16:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 162.726 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 136.855 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 162.816 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 160.404 ms
Loss rate: 5.05%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 139.661 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 139.329 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 139.735 ms

Loss rate: 1.71%

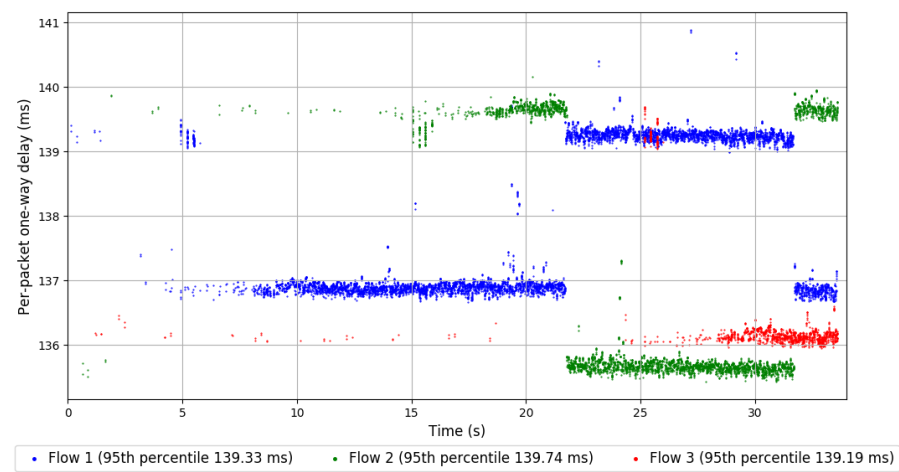
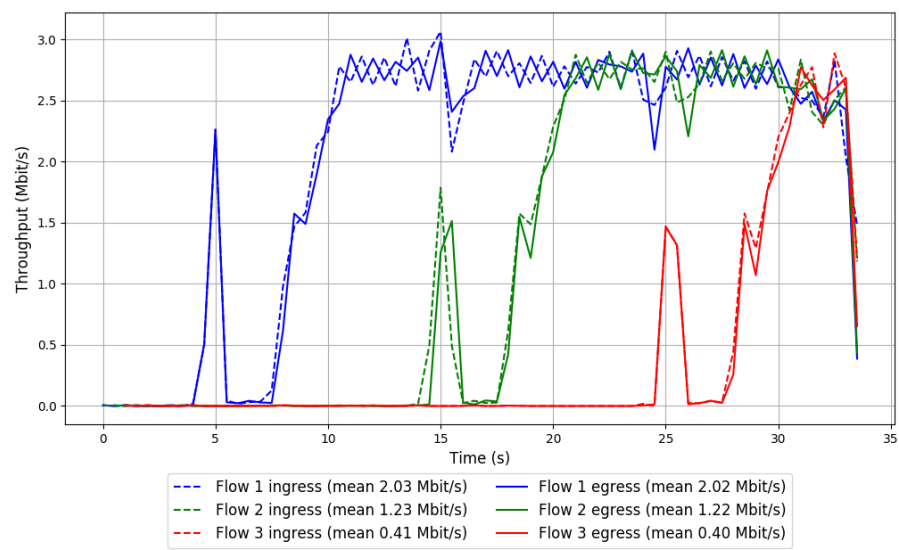
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 139.191 ms

Loss rate: 5.02%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-12 12:14:47

End at: 2017-12-12 12:15:17

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 136.627 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.259 ms

Loss rate: 1.93%

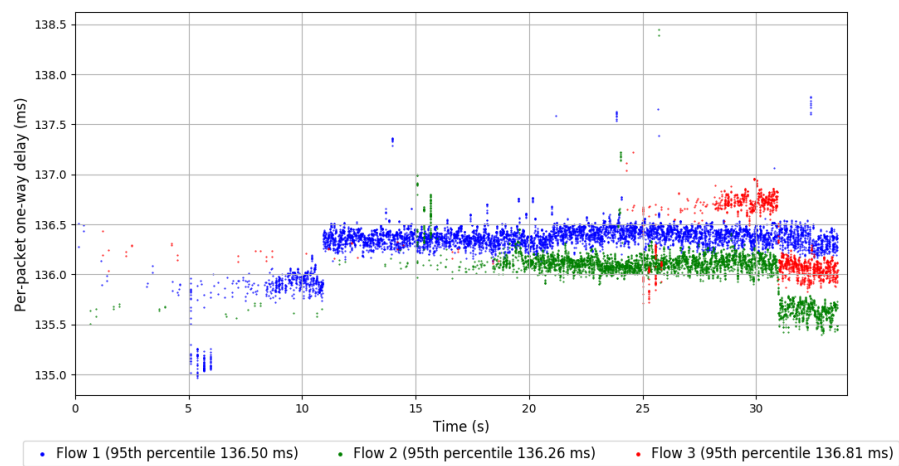
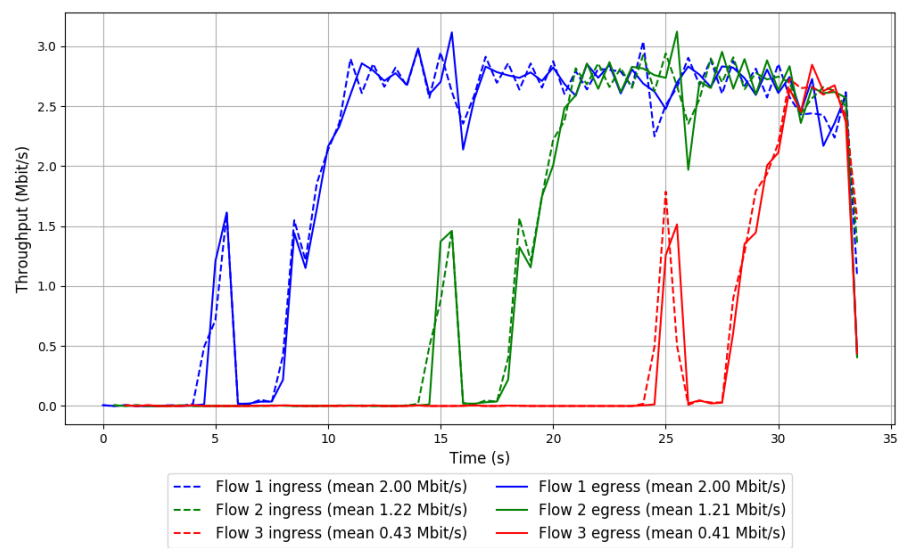
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.805 ms

Loss rate: 6.28%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-12 12:28:54

End at: 2017-12-12 12:29:24

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.130 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 2.10%

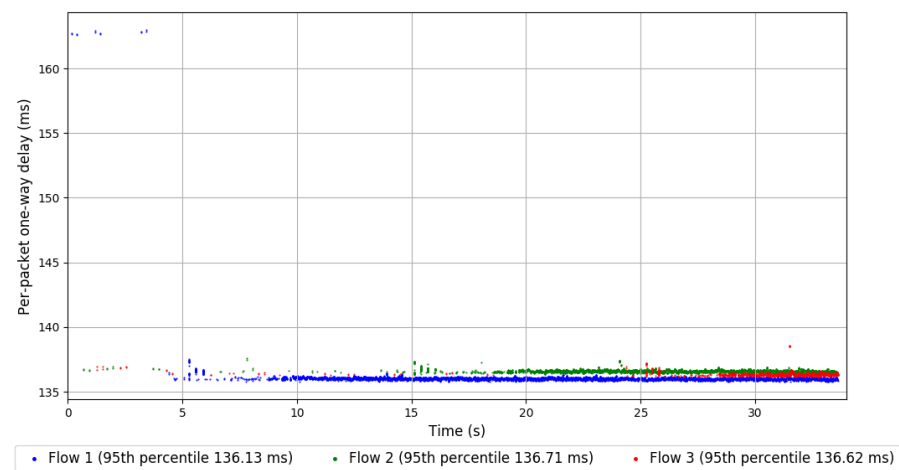
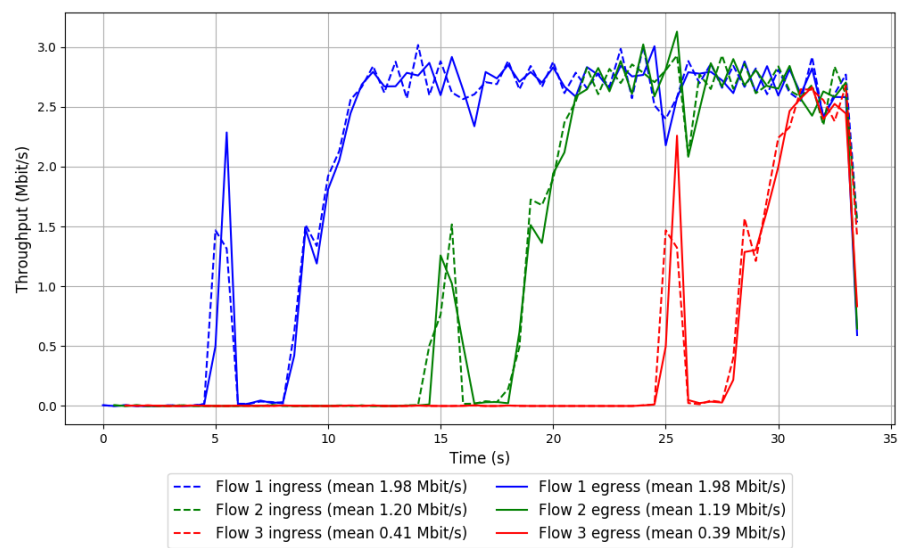
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.625 ms

Loss rate: 5.49%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-12 12:43:08

End at: 2017-12-12 12:43:38

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 136.819 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.773 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 136.868 ms

Loss rate: 2.14%

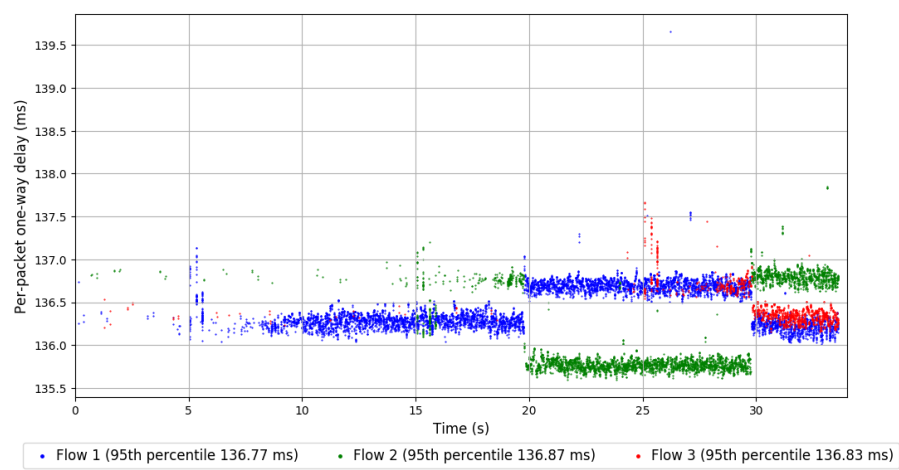
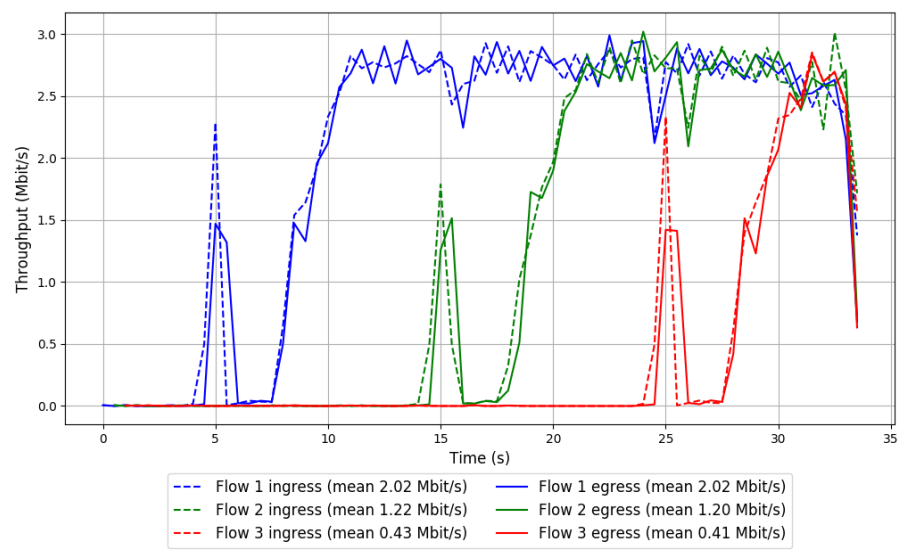
-- Flow 3:

Average throughput: 0.41 Mbit/s

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

Loss rate: 5.63%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-12 12:57:26

End at: 2017-12-12 12:57:56

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 136.825 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 135.438 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.882 ms

Loss rate: 1.95%

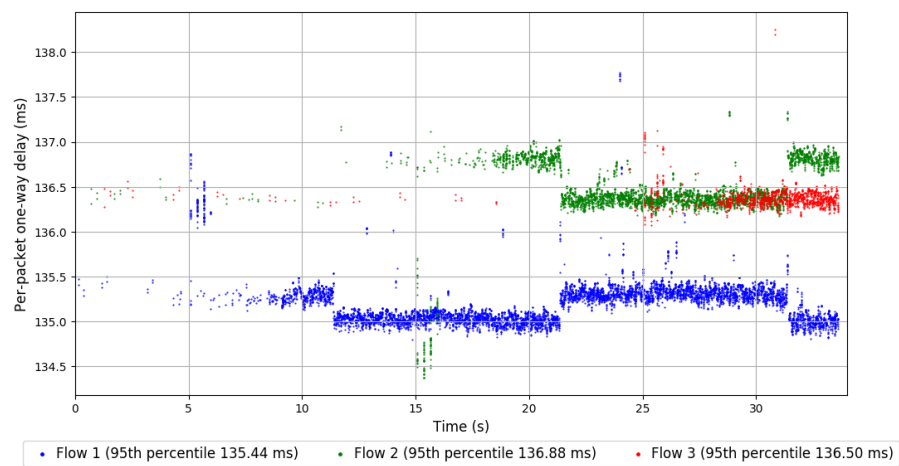
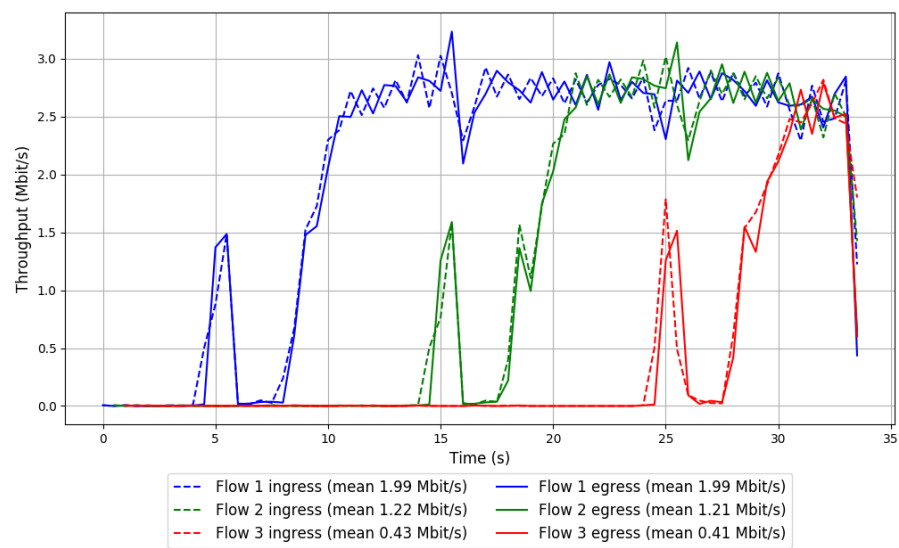
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.501 ms

Loss rate: 6.42%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-12 13:11:23

End at: 2017-12-12 13:11:53

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 136.936 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 136.886 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 136.982 ms

Loss rate: 1.99%

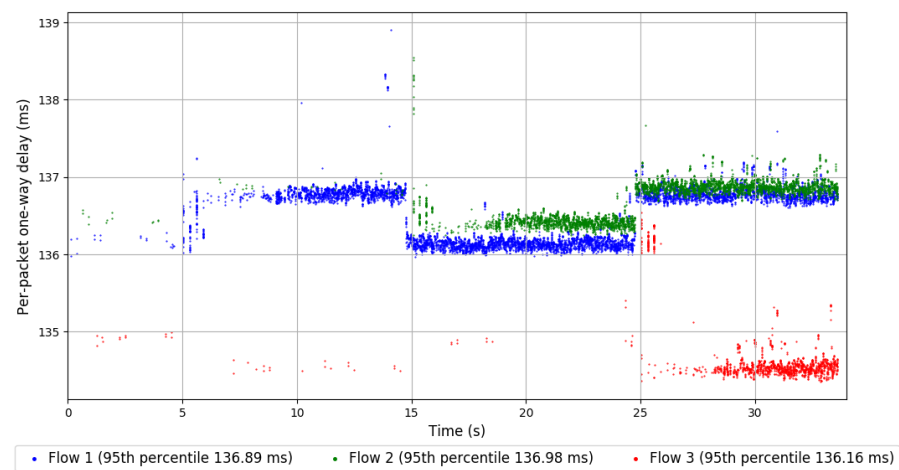
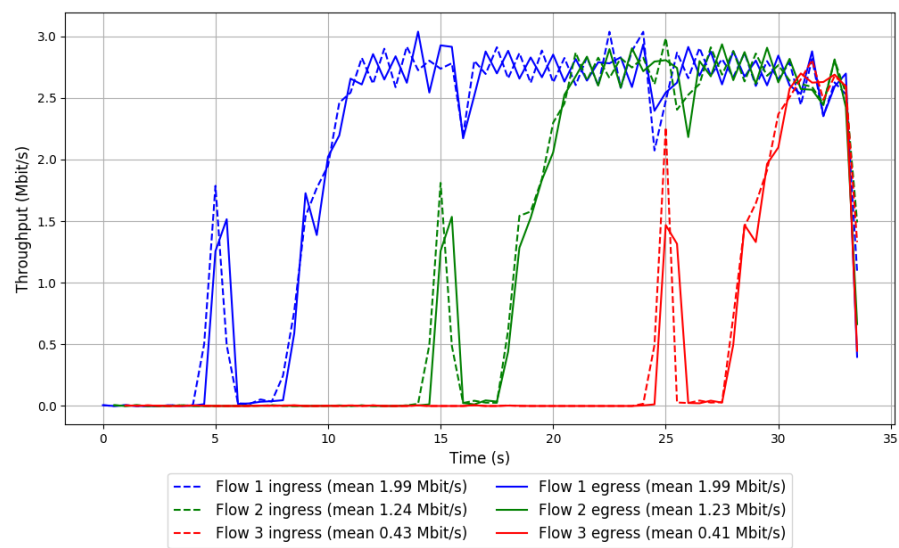
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.156 ms

Loss rate: 5.53%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-12 13:25:38

End at: 2017-12-12 13:26:08

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 164.088 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 137.065 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 164.202 ms

Loss rate: 2.67%

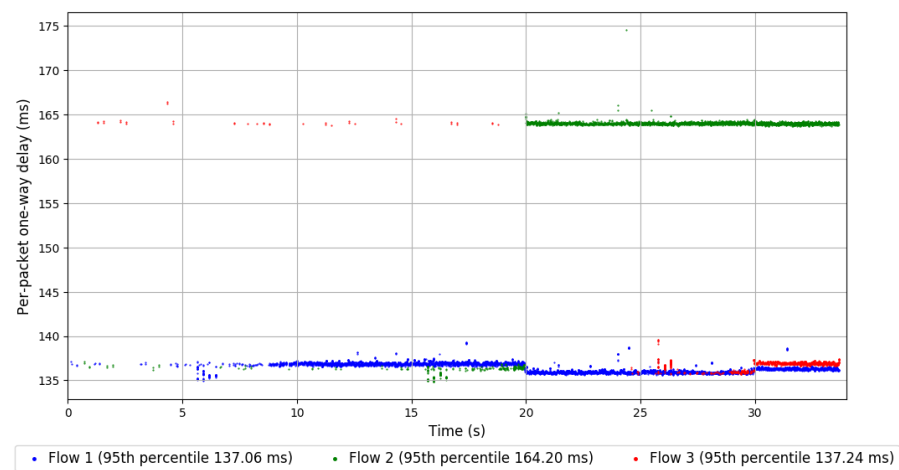
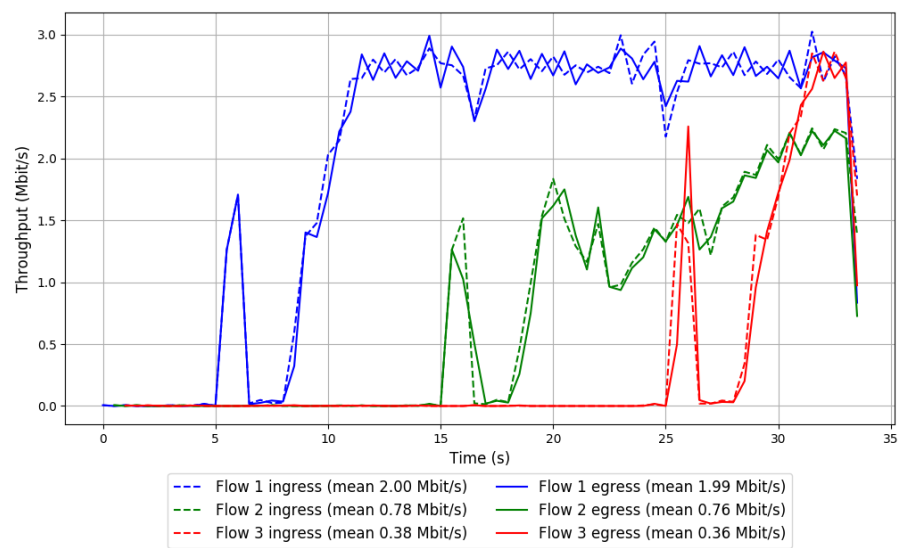
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.238 ms

Loss rate: 5.90%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-12 13:40:14

End at: 2017-12-12 13:40:44

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.877 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 1.73%

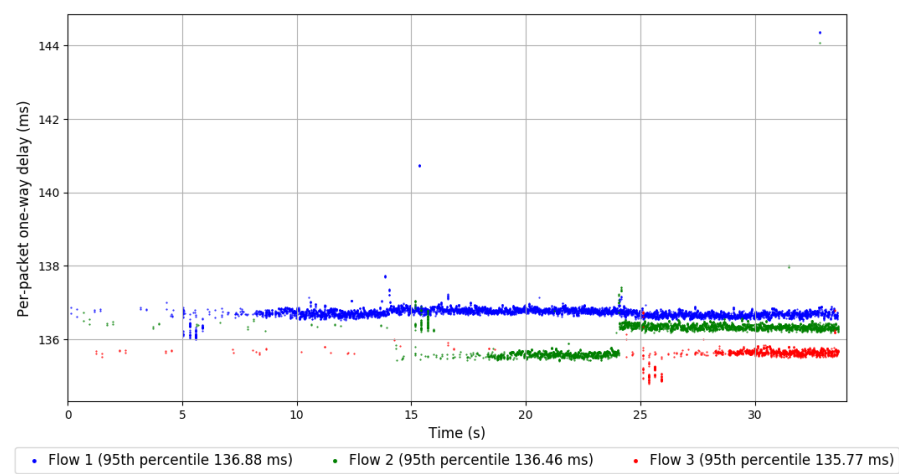
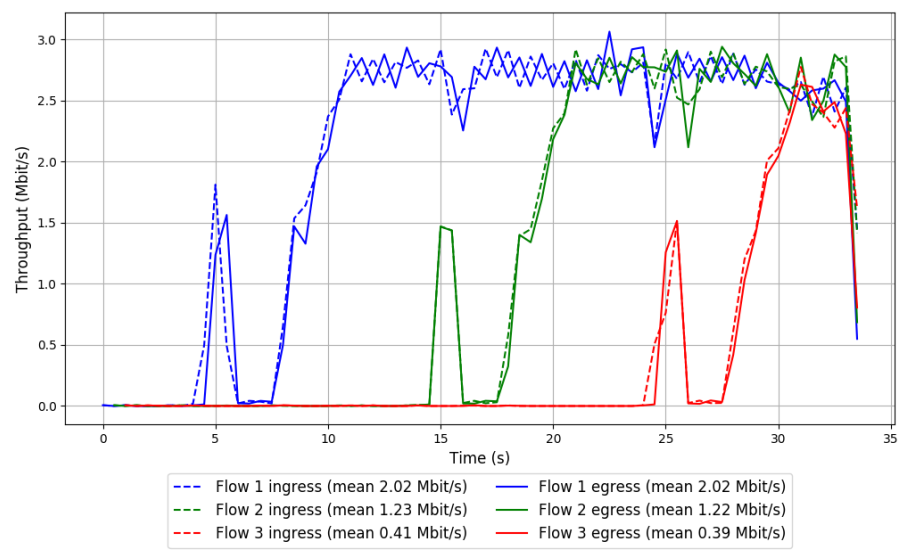
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.774 ms

Loss rate: 5.50%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-12 13:54:35

End at: 2017-12-12 13:55:05

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 136.938 ms

Loss rate: 1.72%

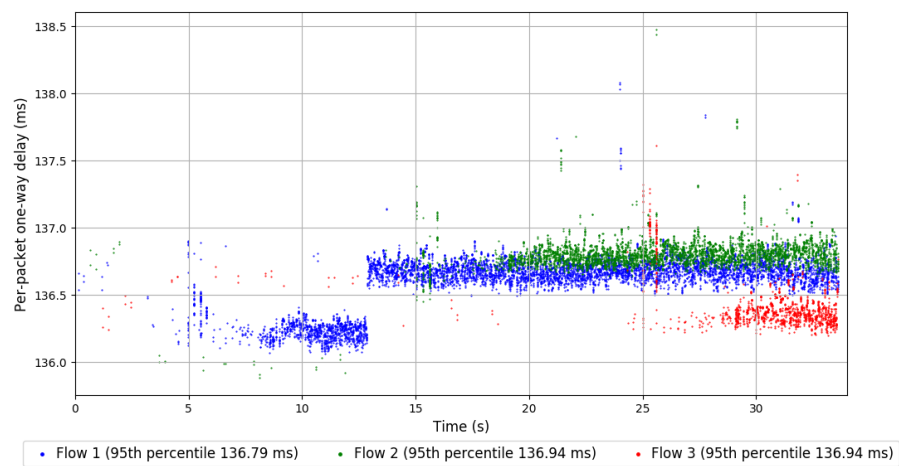
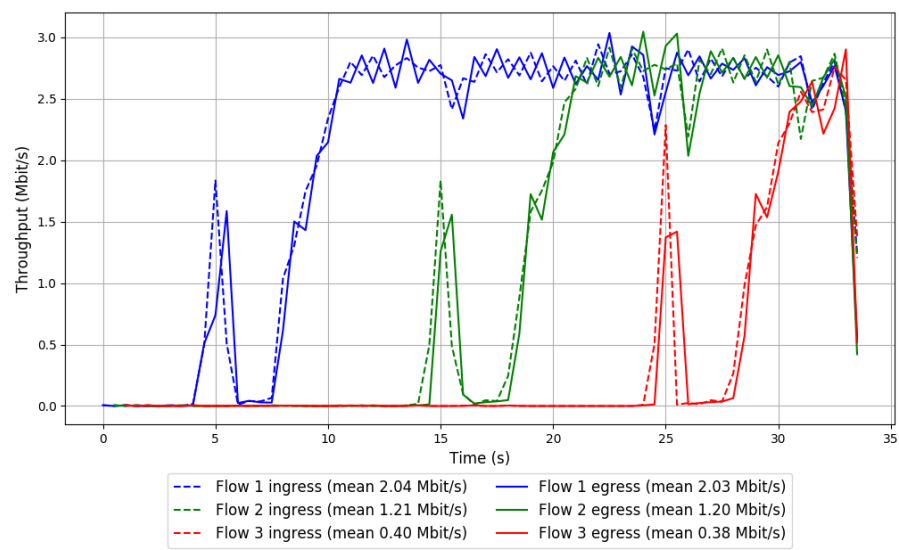
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.940 ms

Loss rate: 6.08%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

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

End at: 2017-12-12 11:35:04

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 162.233 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 160.652 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 139.617 ms

Loss rate: 0.03%

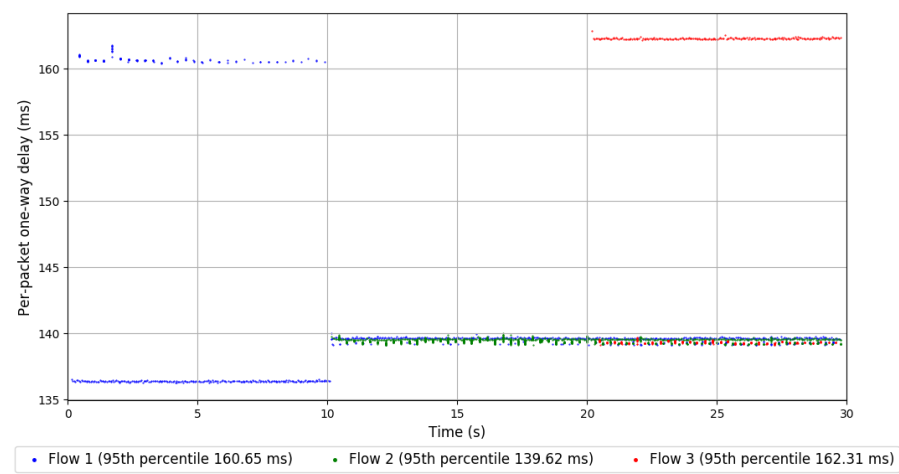
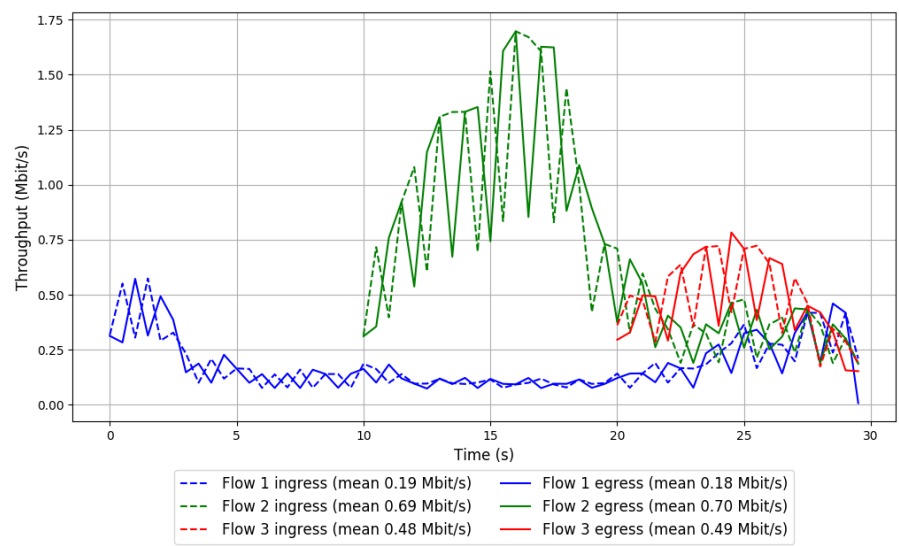
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 162.307 ms

Loss rate: 1.96%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-12 11:48:13

End at: 2017-12-12 11:48:43

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 139.374 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 139.413 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 139.356 ms

Loss rate: 1.09%

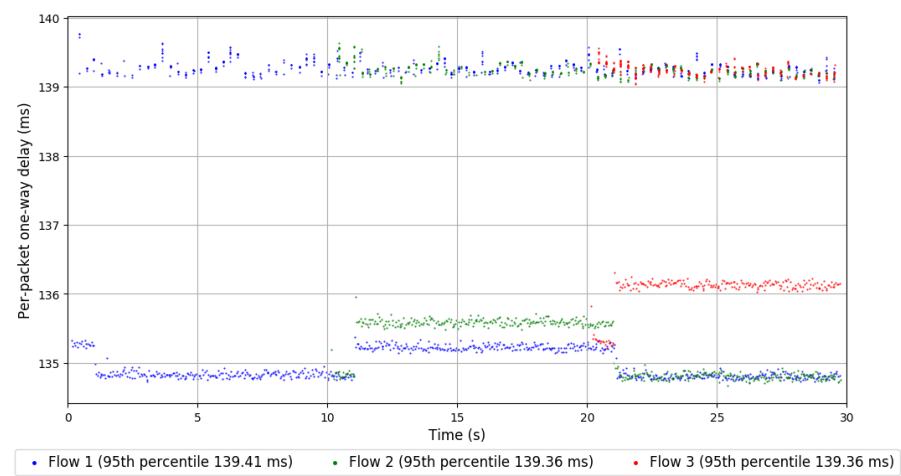
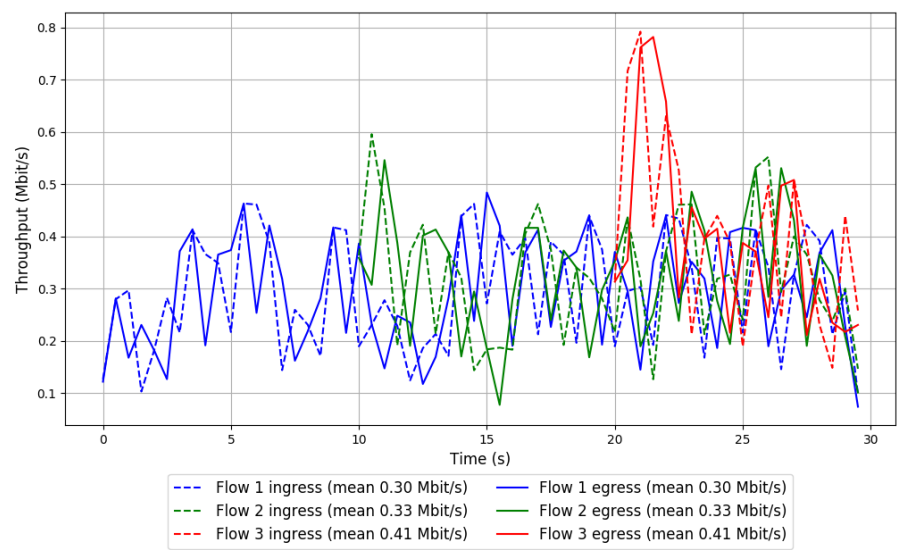
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 139.361 ms

Loss rate: 3.14%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-12 12:01:56

End at: 2017-12-12 12:02:26

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 139.440 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 139.426 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 139.449 ms

Loss rate: 1.53%

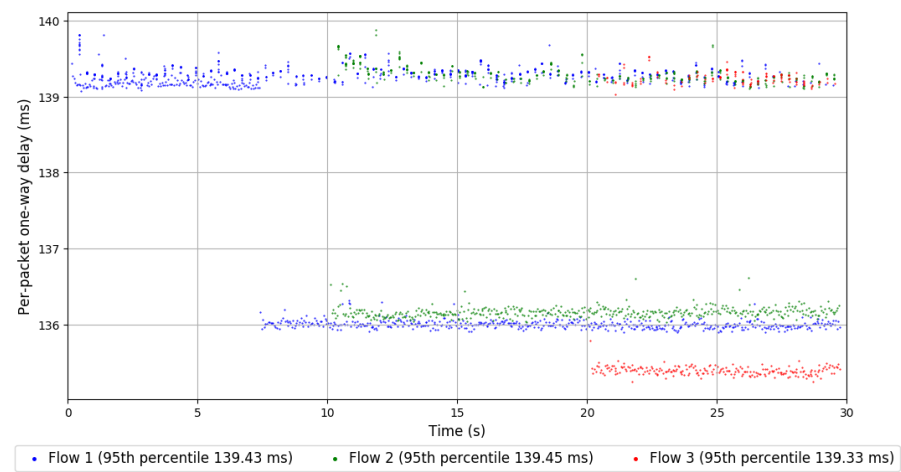
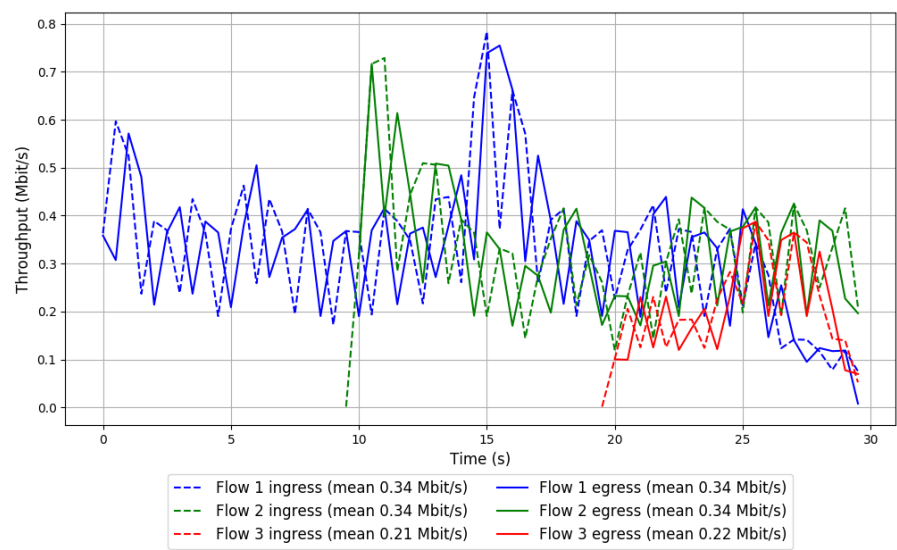
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.329 ms

Loss rate: 1.17%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-12 12:15:37

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

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 136.631 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.627 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 1.78%

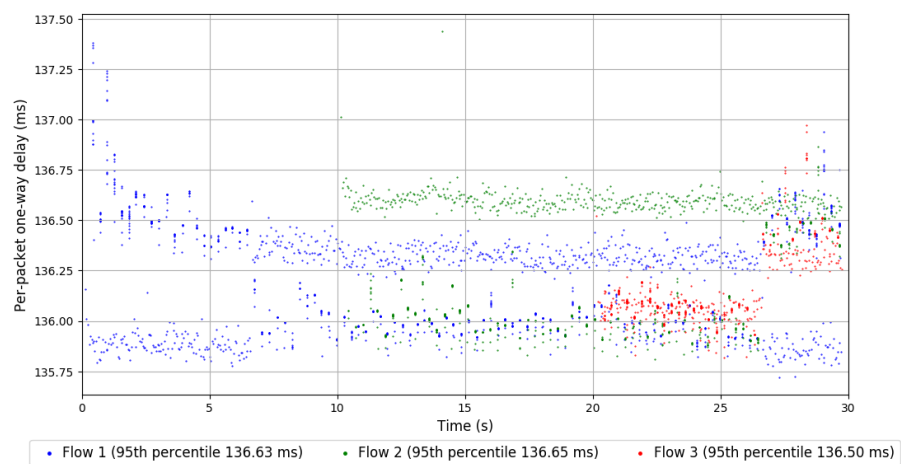
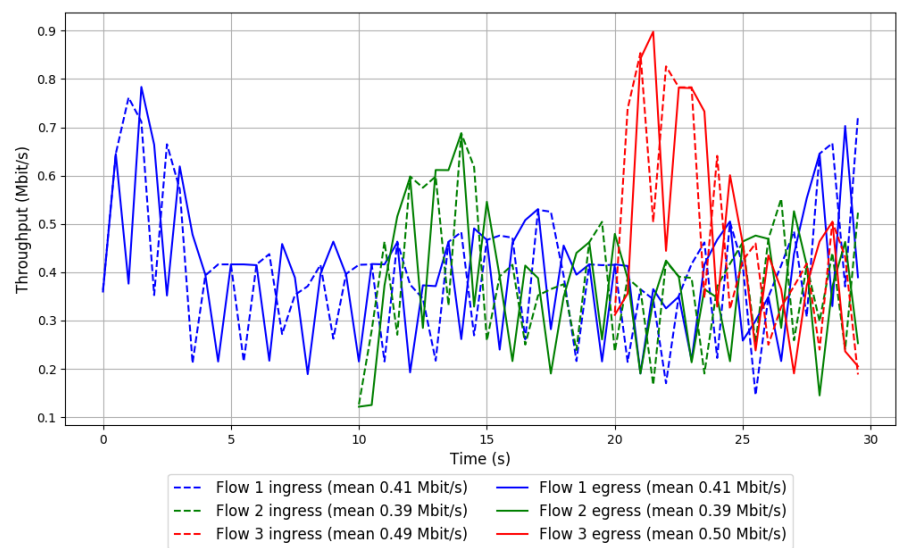
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 1.89%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

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

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

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 162.449 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 162.489 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 162.273 ms

Loss rate: 1.11%

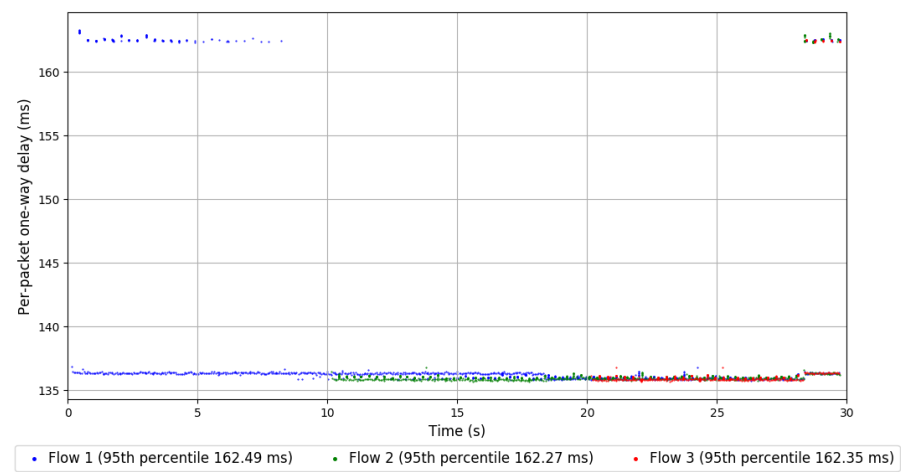
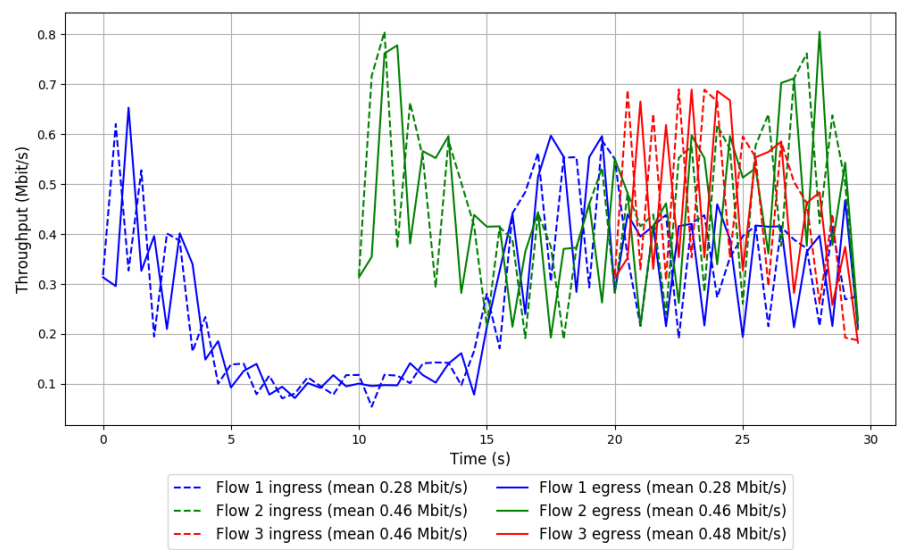
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 162.346 ms

Loss rate: 0.10%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

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

End at: 2017-12-12 12:44:30

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 136.736 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.659 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.524 ms

Loss rate: 1.20%

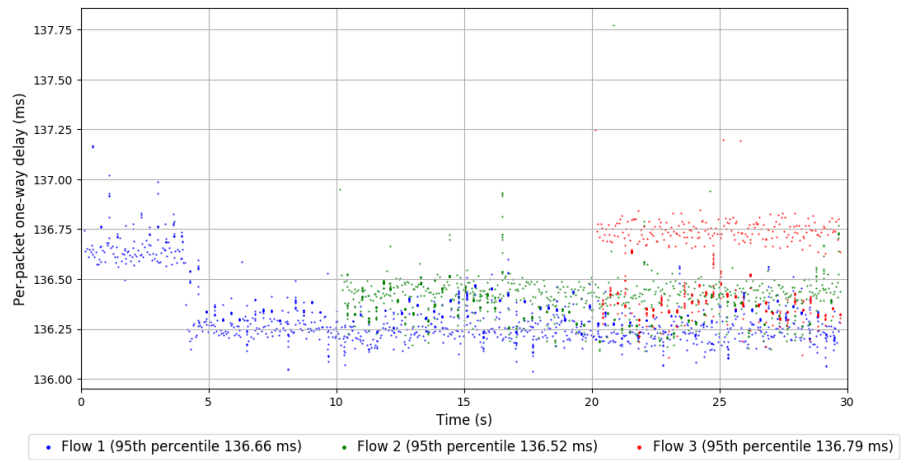
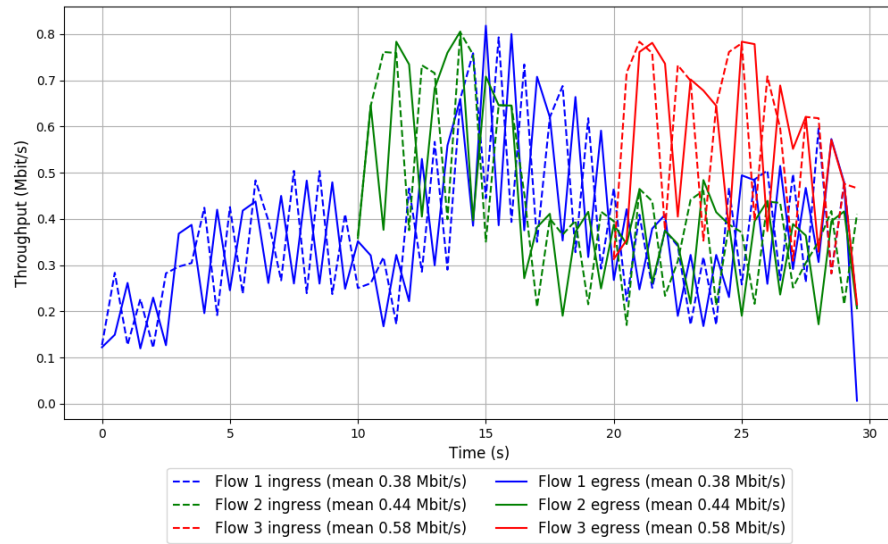
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 136.790 ms

Loss rate: 2.25%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-12 12:58:18

End at: 2017-12-12 12:58:48

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 136.887 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.922 ms

Loss rate: 0.26%

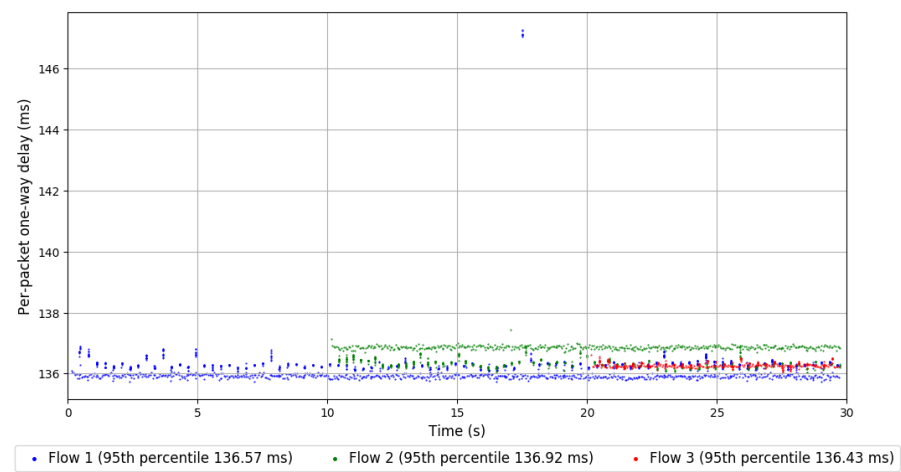
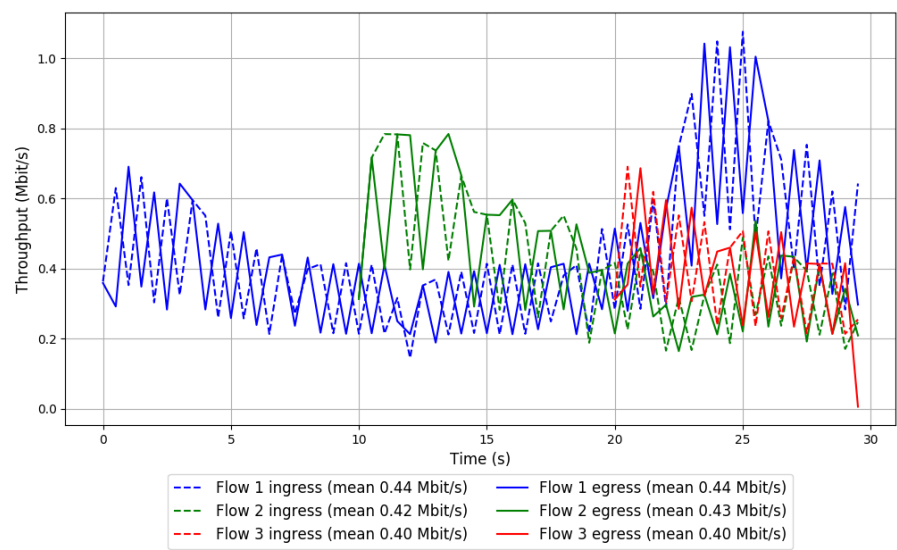
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.433 ms

Loss rate: 3.22%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-12 13:12:15

End at: 2017-12-12 13:12:45

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 161.726 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.557 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 1.55%

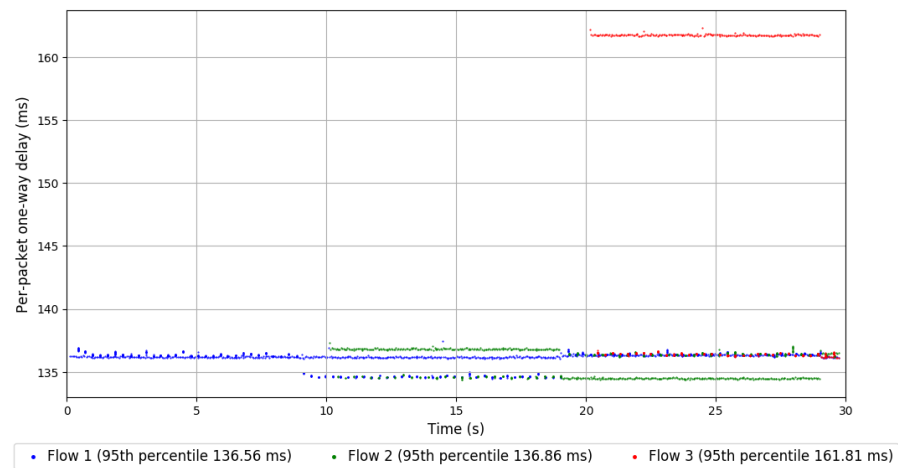
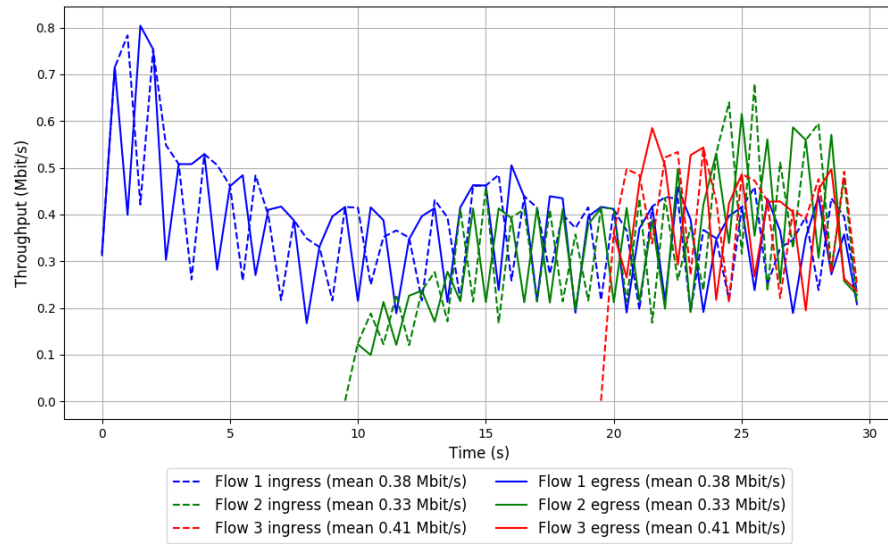
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 161.810 ms

Loss rate: 3.03%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-12 13:26:28

End at: 2017-12-12 13:26:58

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 136.695 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 136.792 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 0.81%

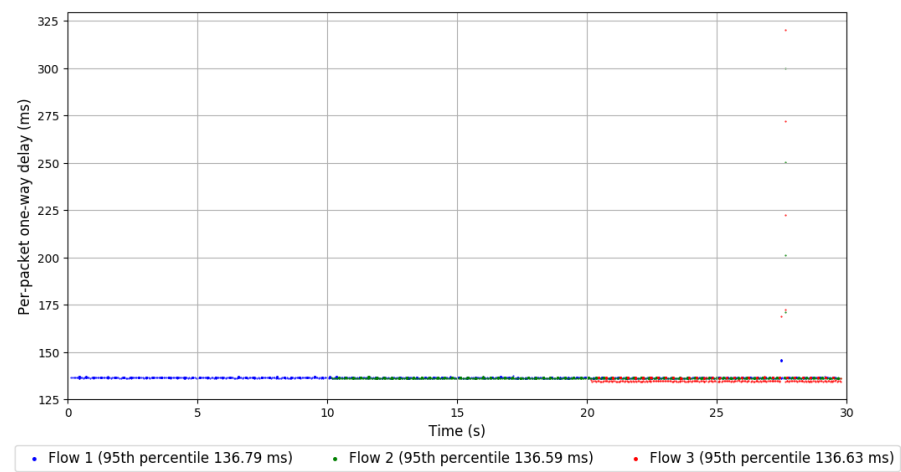
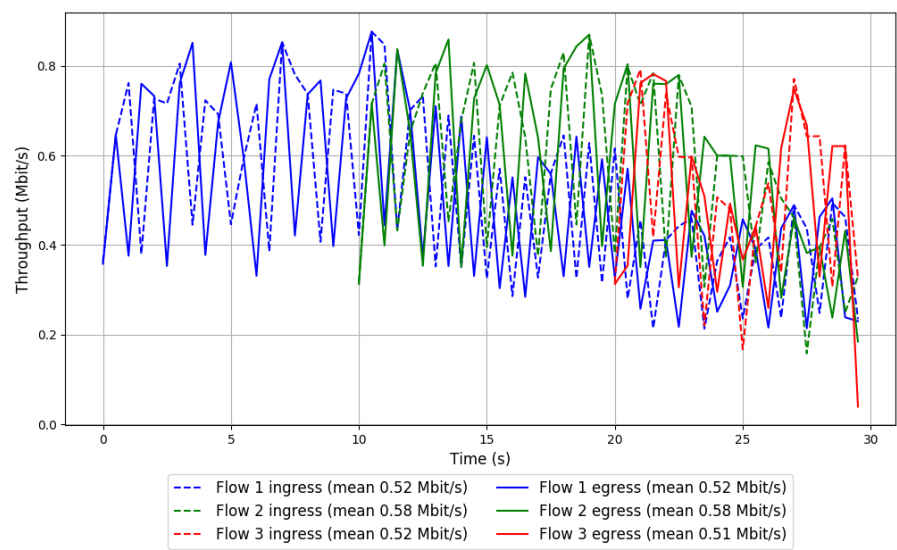
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 136.632 ms

Loss rate: 2.86%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-12 13:41:04

End at: 2017-12-12 13:41:34

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 161.592 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.768 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 136.440 ms

Loss rate: 1.37%

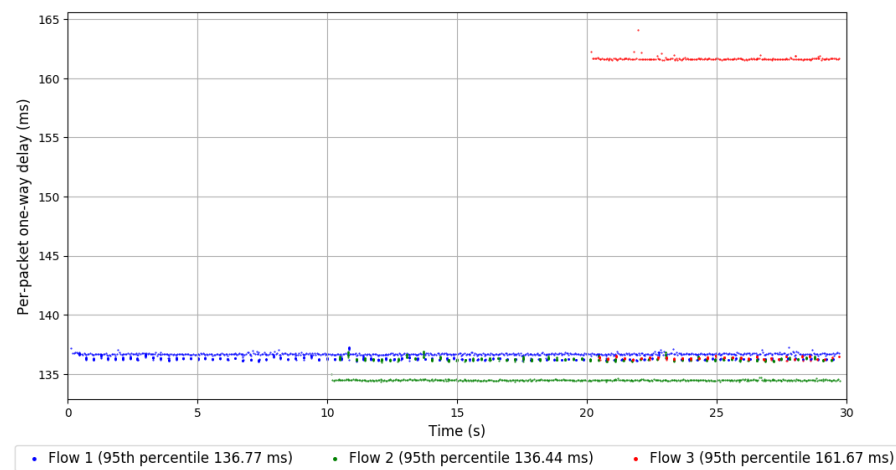
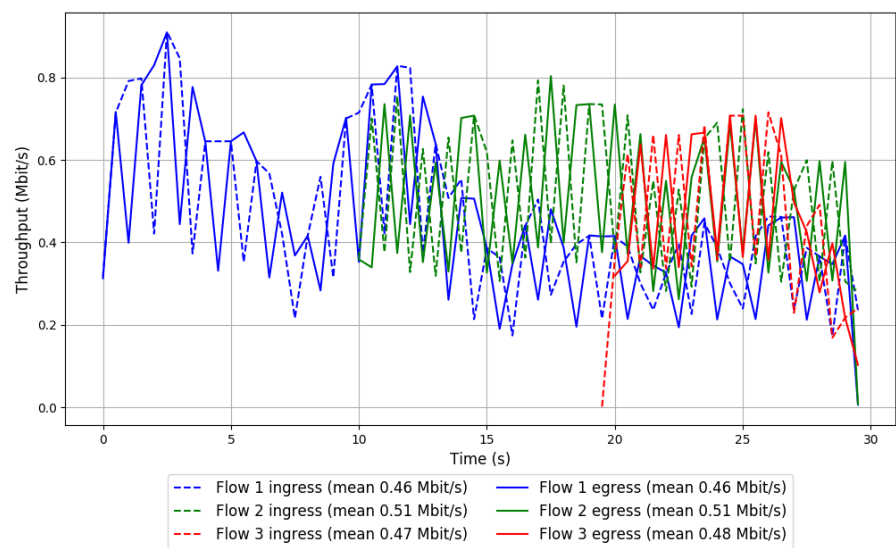
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 161.673 ms

Loss rate: 1.54%

Run 10: Report of Sprout — Data Link

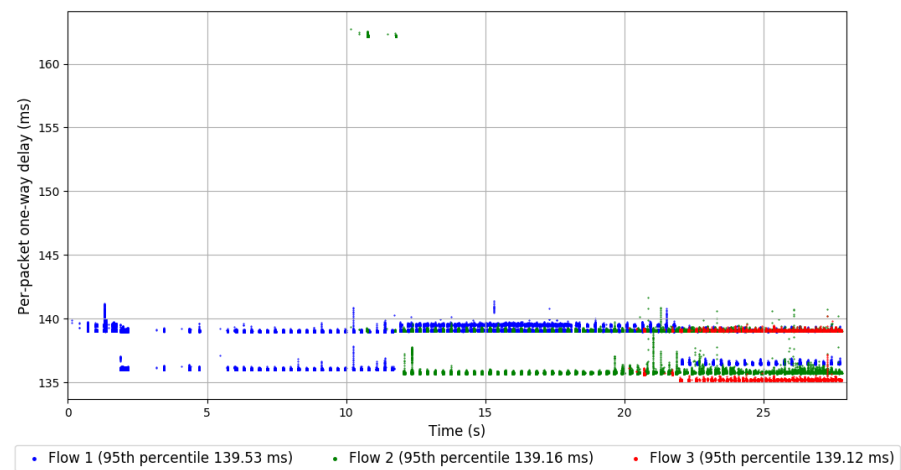
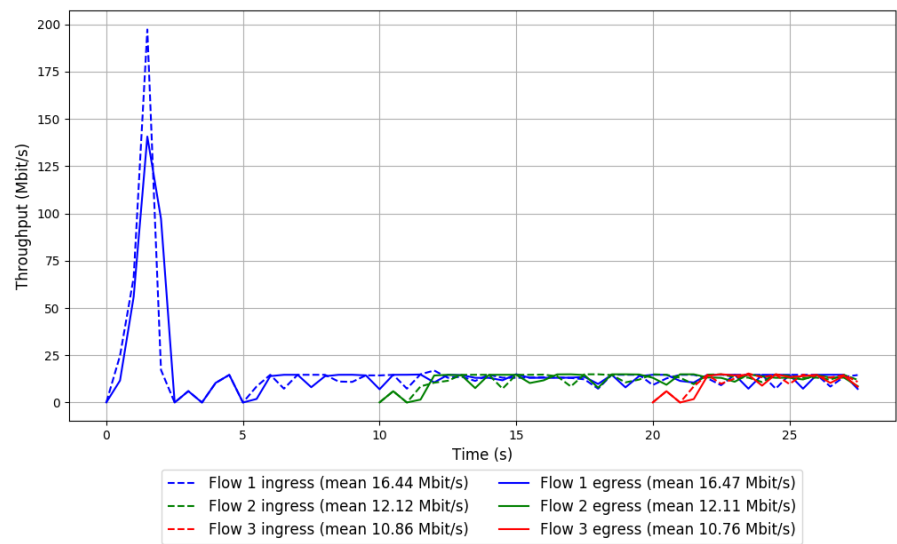


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-12 11:46:30
End at: 2017-12-12 11:47:00

# Below is generated by plot.py at 2017-12-12 16:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.13 Mbit/s
95th percentile per-packet one-way delay: 139.511 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 16.47 Mbit/s
95th percentile per-packet one-way delay: 139.534 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 139.159 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 139.123 ms
Loss rate: 4.35%
```


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

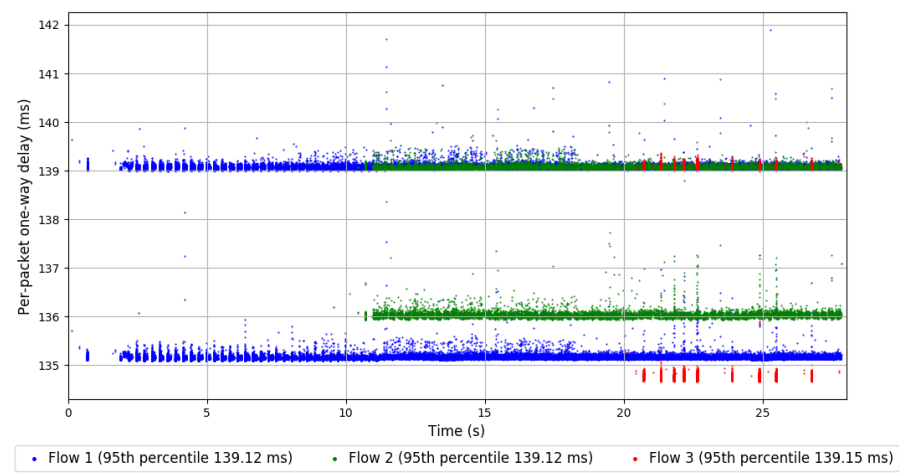
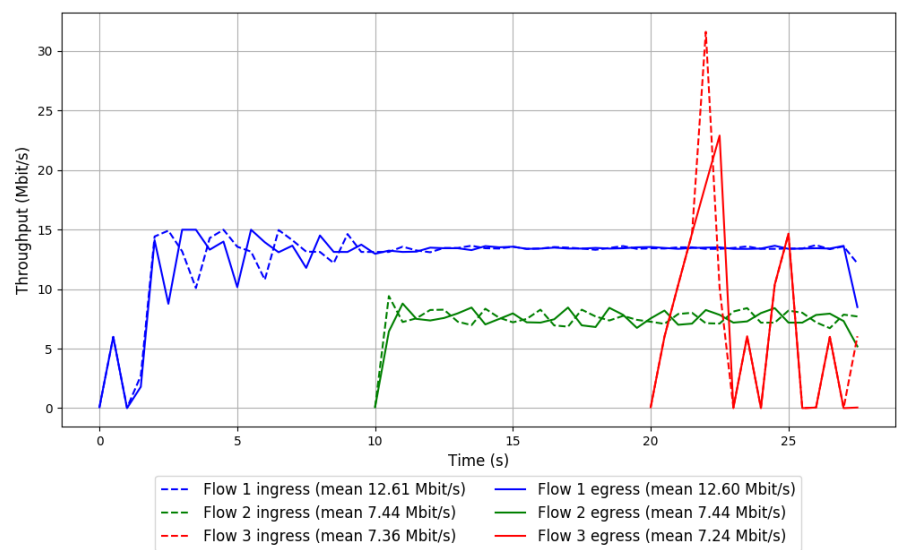


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-12 12:00:14
End at: 2017-12-12 12:00:44

# Below is generated by plot.py at 2017-12-12 16:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 139.126 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 139.121 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 139.124 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 139.150 ms
Loss rate: 5.16%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-12 12:13:43

End at: 2017-12-12 12:14:13

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.73 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 136.330 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 147.11 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 1.23%

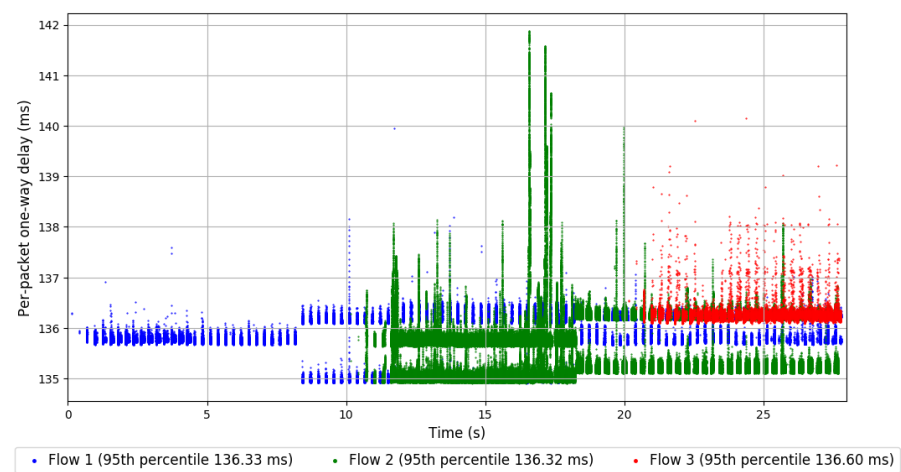
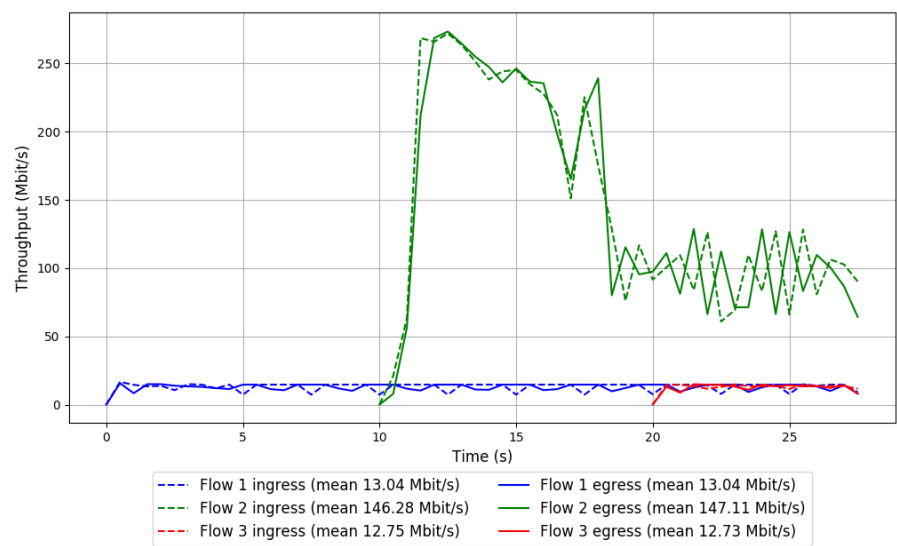
-- Flow 3:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 136.605 ms

Loss rate: 3.70%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-12 12:27:40

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

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.79 Mbit/s

95th percentile per-packet one-way delay: 137.134 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 138.284 ms

Loss rate: 4.59%

-- Flow 2:

Average throughput: 202.99 Mbit/s

95th percentile per-packet one-way delay: 136.911 ms

Loss rate: 1.54%

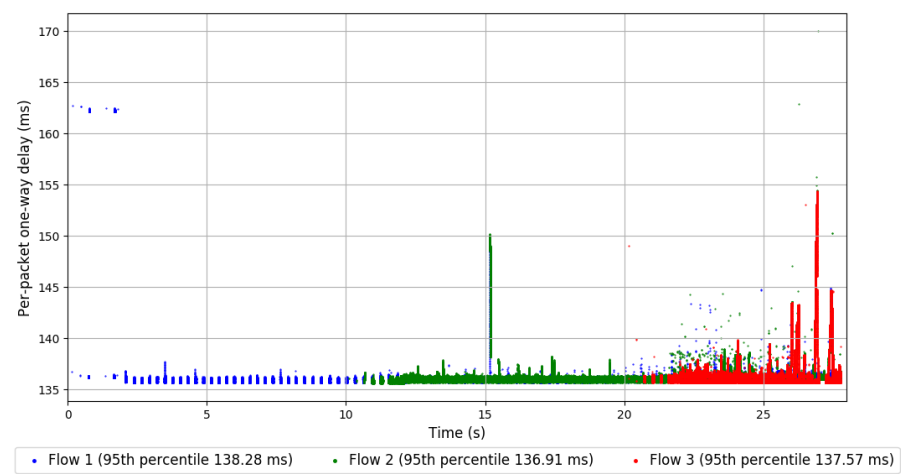
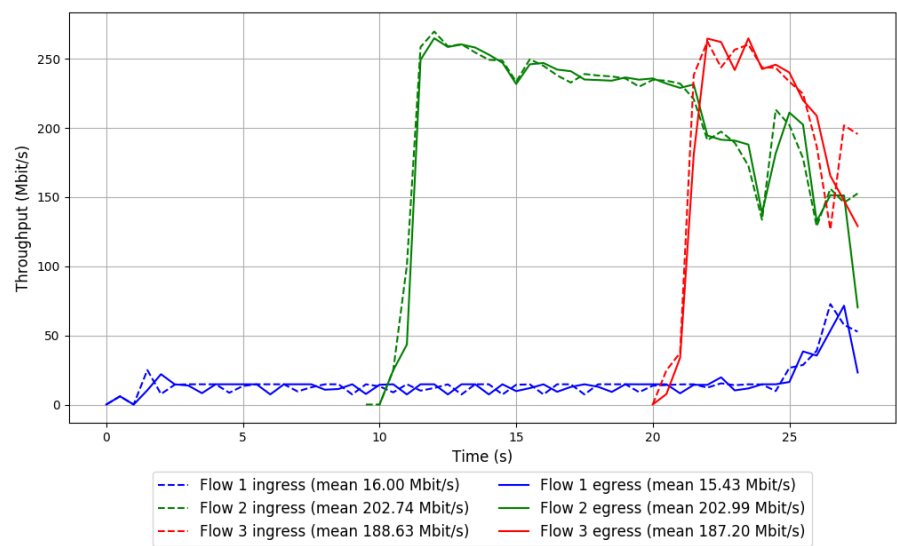
-- Flow 3:

Average throughput: 187.20 Mbit/s

95th percentile per-packet one-way delay: 137.569 ms

Loss rate: 4.19%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-12 12:41:57

End at: 2017-12-12 12:42:27

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.37 Mbit/s

95th percentile per-packet one-way delay: 137.538 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 162.280 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 176.50 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 1.96%

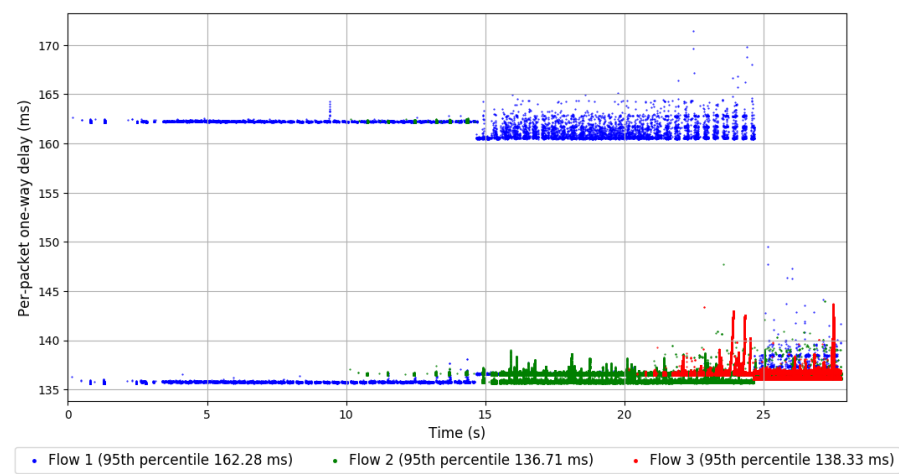
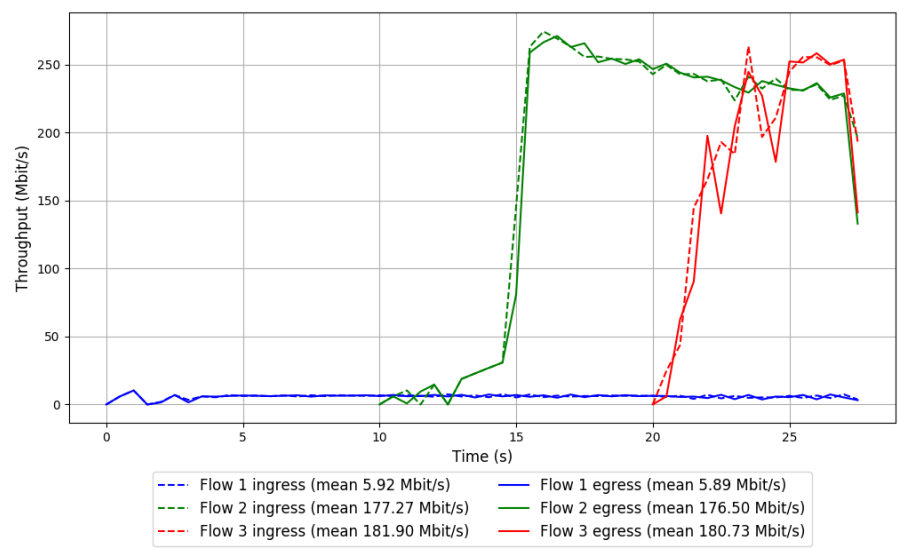
-- Flow 3:

Average throughput: 180.73 Mbit/s

95th percentile per-packet one-way delay: 138.331 ms

Loss rate: 4.15%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-12 12:56:14

End at: 2017-12-12 12:56:44

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.79 Mbit/s

95th percentile per-packet one-way delay: 137.772 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 138.34 Mbit/s

95th percentile per-packet one-way delay: 138.180 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 38.81 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.53%

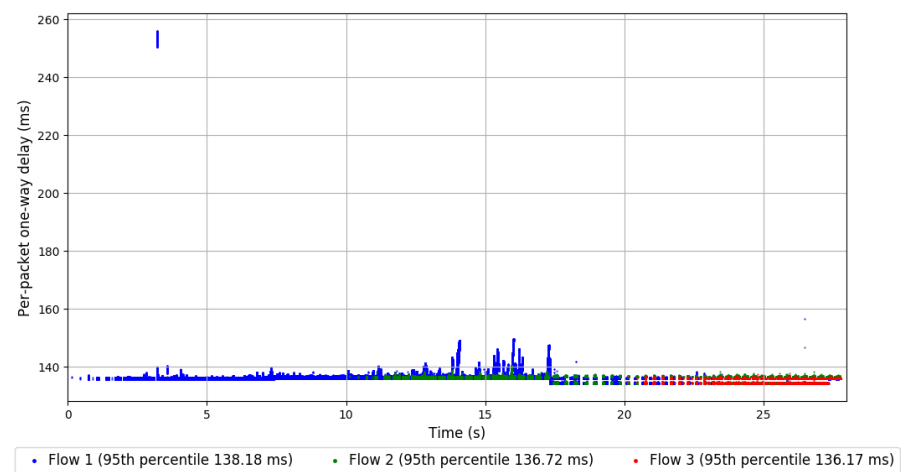
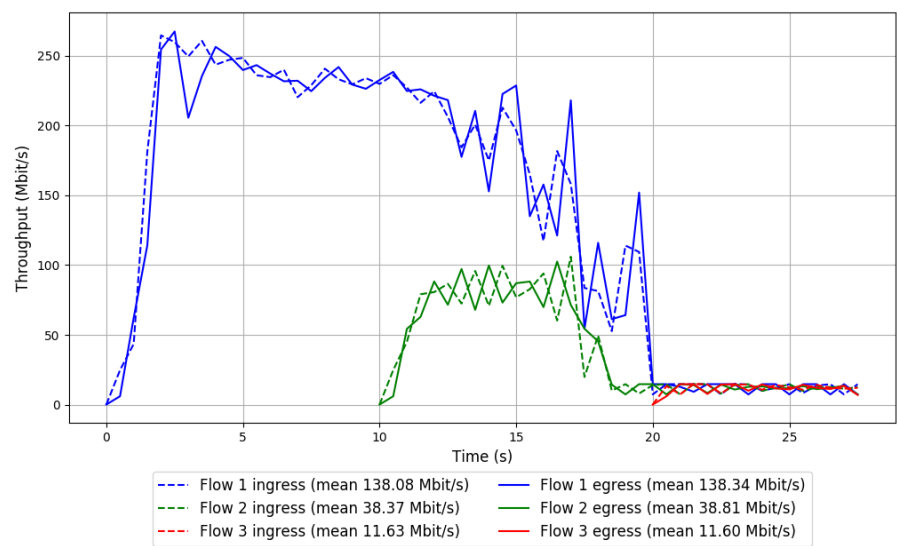
-- Flow 3:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 136.174 ms

Loss rate: 4.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-12 13:10:14

End at: 2017-12-12 13:10:44

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 156.16 Mbit/s

95th percentile per-packet one-way delay: 137.225 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 57.99 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 96.41 Mbit/s

95th percentile per-packet one-way delay: 163.859 ms

Loss rate: 0.00%

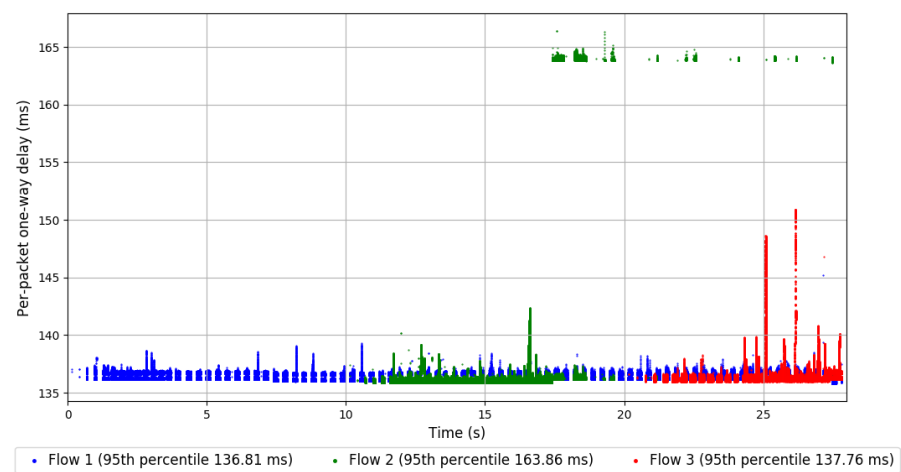
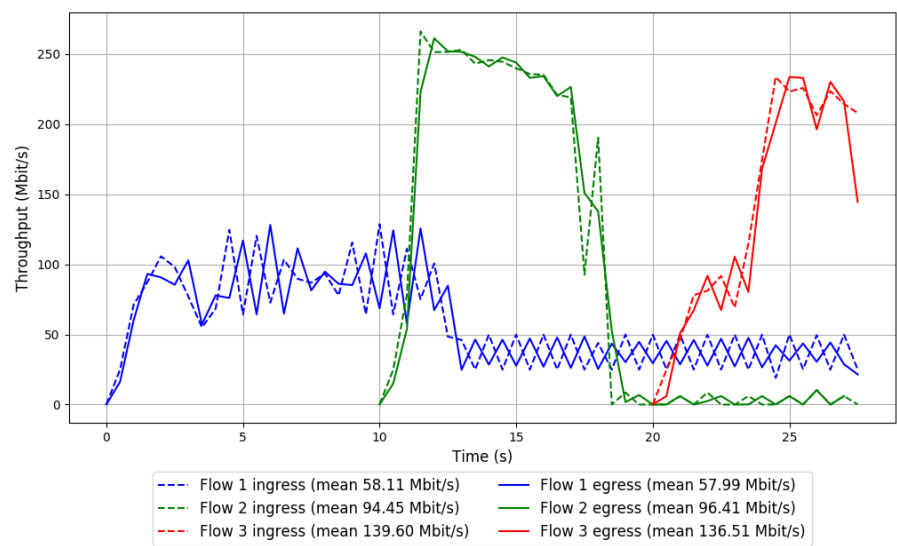
-- Flow 3:

Average throughput: 136.51 Mbit/s

95th percentile per-packet one-way delay: 137.759 ms

Loss rate: 5.57%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-12 13:24:28

End at: 2017-12-12 13:24:58

Below is generated by plot.py at 2017-12-12 16:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.62 Mbit/s

95th percentile per-packet one-way delay: 139.102 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 163.707 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 196.00 Mbit/s

95th percentile per-packet one-way delay: 138.408 ms

Loss rate: 1.68%

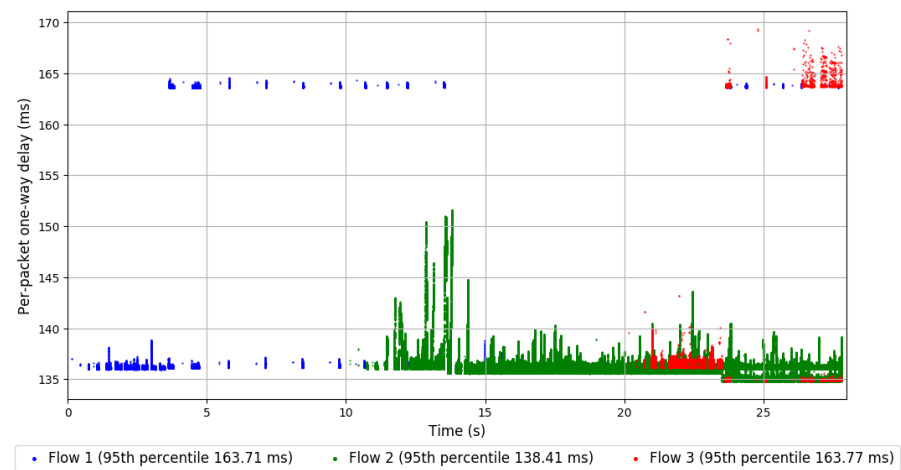
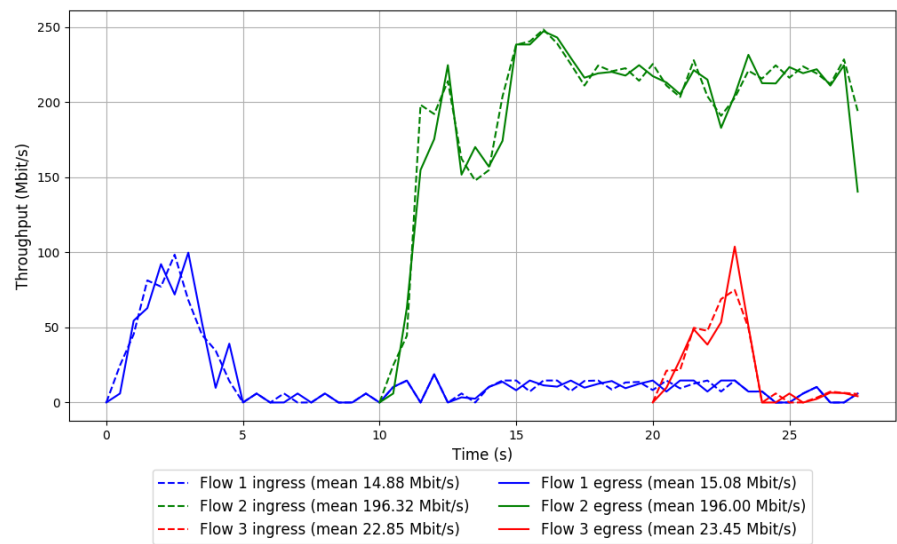
-- Flow 3:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 163.767 ms

Loss rate: 0.90%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-12 13:38:48

End at: 2017-12-12 13:39:18

Below is generated by plot.py at 2017-12-12 16:42:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.03 Mbit/s

95th percentile per-packet one-way delay: 149.003 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 168.84 Mbit/s

95th percentile per-packet one-way delay: 144.509 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 140.09 Mbit/s

95th percentile per-packet one-way delay: 156.268 ms

Loss rate: 1.79%

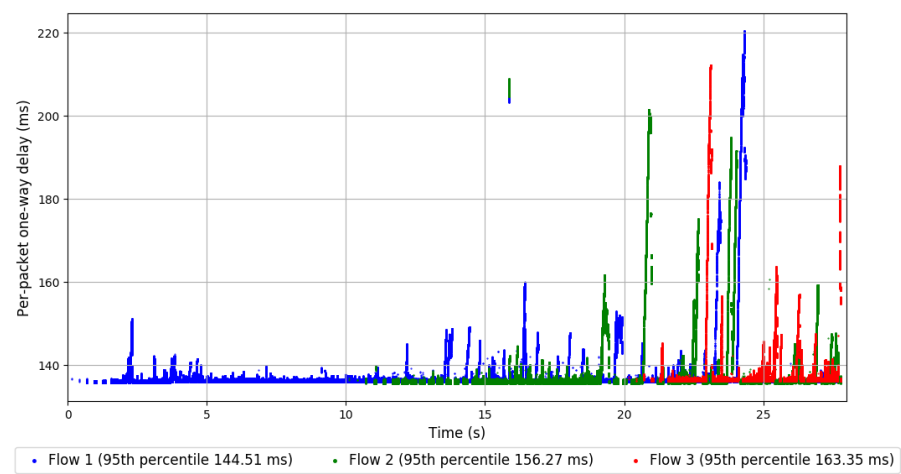
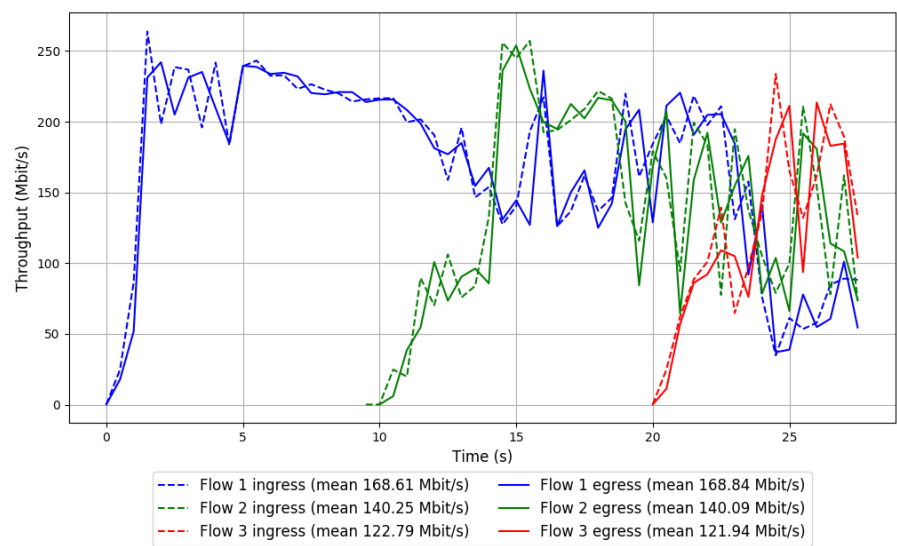
-- Flow 3:

Average throughput: 121.94 Mbit/s

95th percentile per-packet one-way delay: 163.352 ms

Loss rate: 4.09%

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

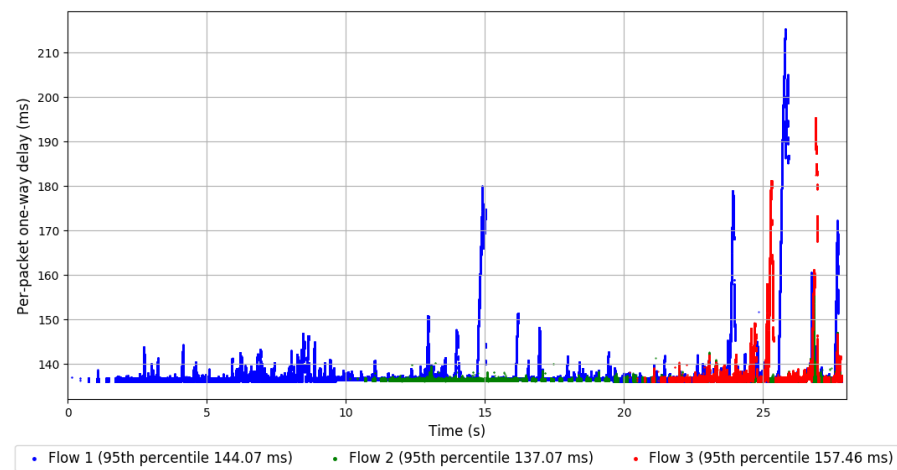
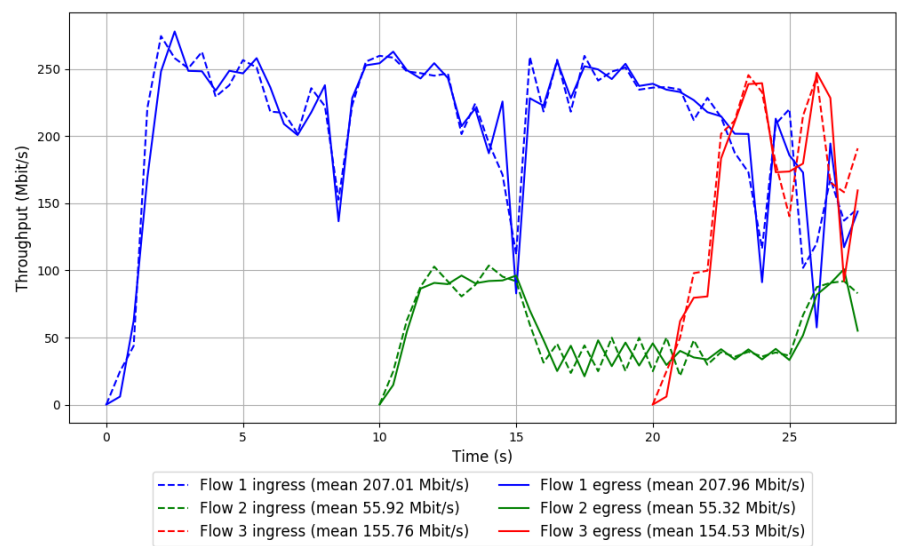


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-12 13:53:12
End at: 2017-12-12 13:53:42

# Below is generated by plot.py at 2017-12-12 16:43:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.74 Mbit/s
95th percentile per-packet one-way delay: 144.528 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 207.96 Mbit/s
95th percentile per-packet one-way delay: 144.070 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 55.32 Mbit/s
95th percentile per-packet one-way delay: 137.073 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 154.53 Mbit/s
95th percentile per-packet one-way delay: 157.459 ms
Loss rate: 4.22%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2017-12-12 11:40:09

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.12 Mbit/s

95th percentile per-packet one-way delay: 143.723 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 143.987 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 140.422 ms

Loss rate: 0.88%

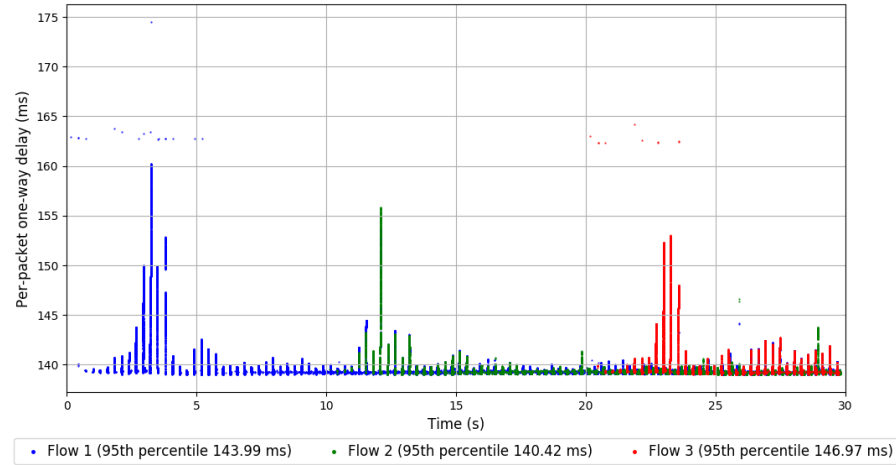
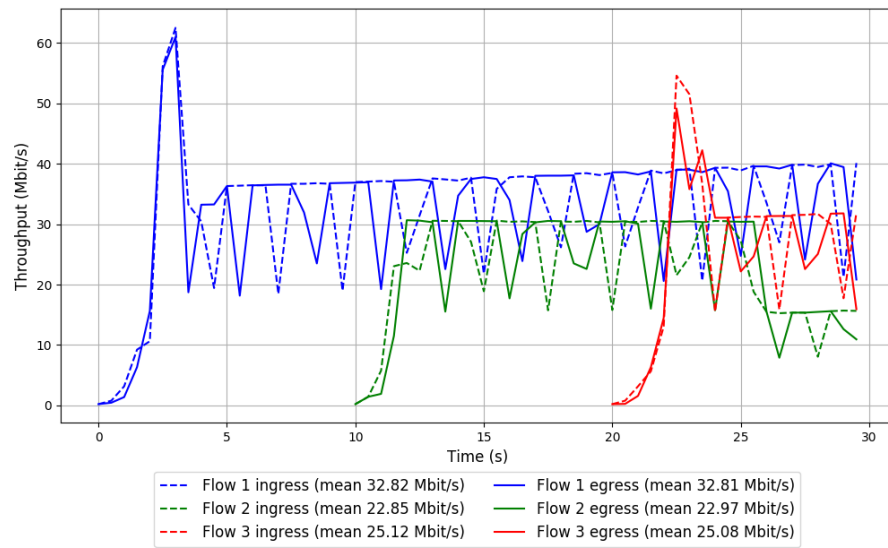
-- Flow 3:

Average throughput: 25.08 Mbit/s

95th percentile per-packet one-way delay: 146.968 ms

Loss rate: 3.23%

Run 1: Report of TCP Vegas — Data Link

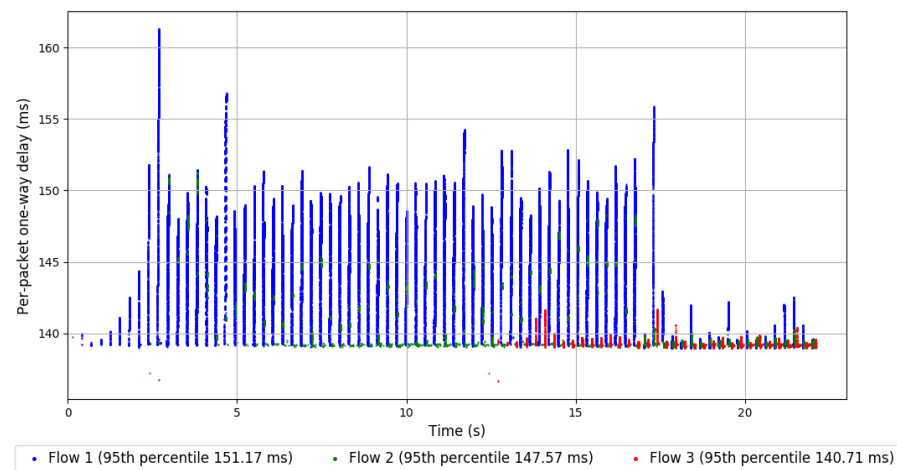
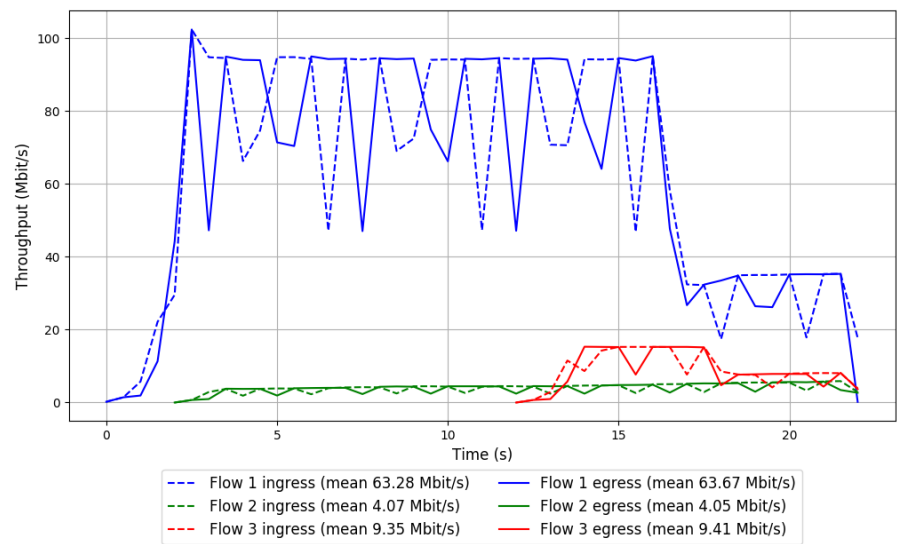


Run 2: Statistics of TCP Vegas

Start at: 2017-12-12 11:53:18

End at: 2017-12-12 11:53:48

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

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

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 173.589 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 64.60 Mbit/s

95th percentile per-packet one-way delay: 174.067 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 164.054 ms

Loss rate: 1.47%

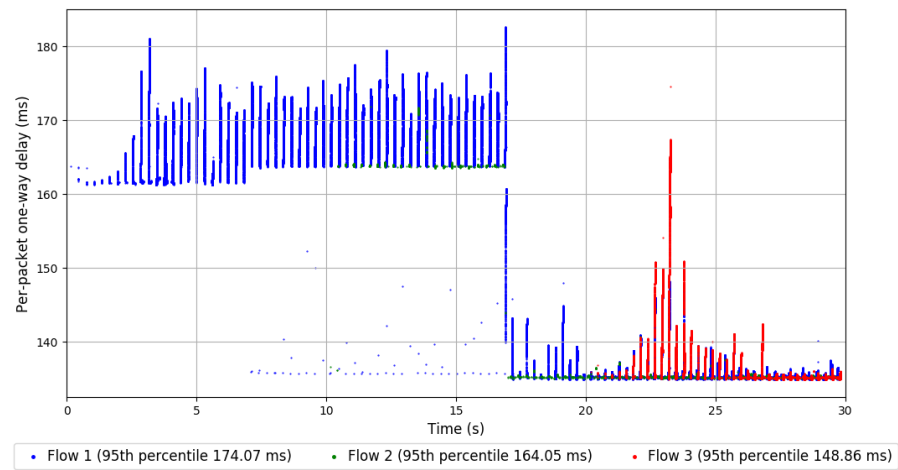
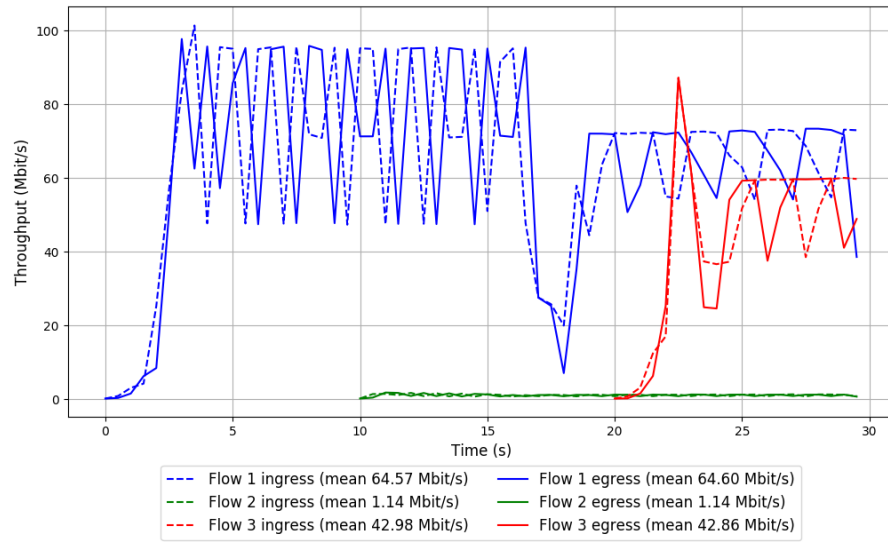
-- Flow 3:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 148.857 ms

Loss rate: 3.53%

Run 3: Report of TCP Vegas — Data Link

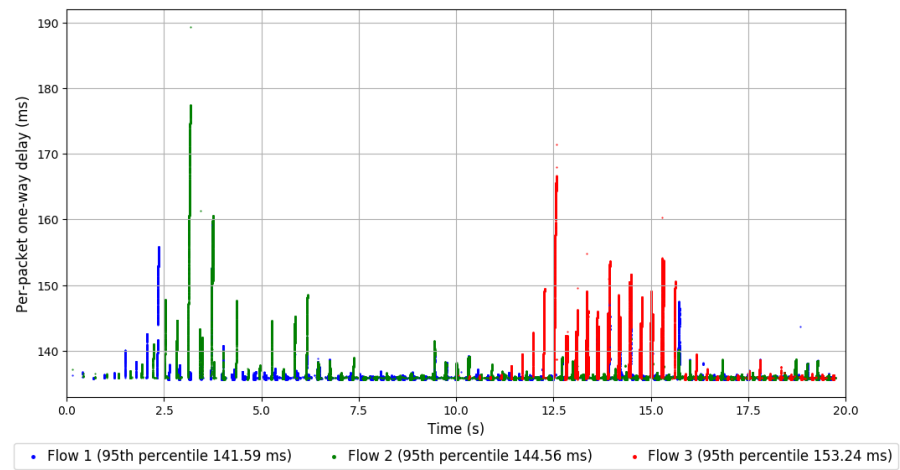
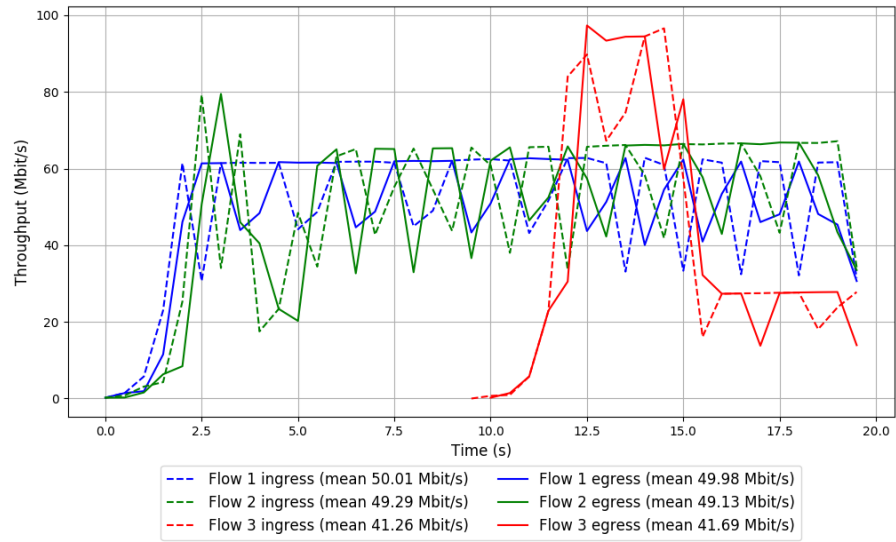


Run 4: Statistics of TCP Vegas

Start at: 2017-12-12 12:20:47

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

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-12 12:34:51

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

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 146.520 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 54.43 Mbit/s

95th percentile per-packet one-way delay: 142.316 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 147.285 ms

Loss rate: 1.38%

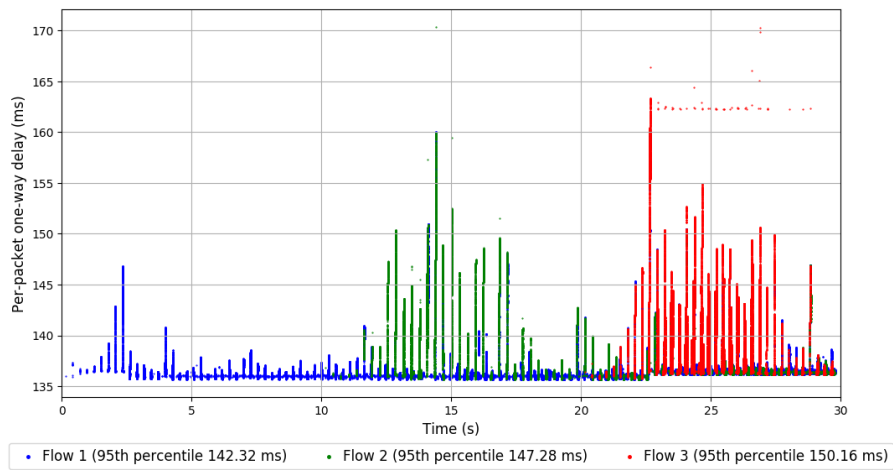
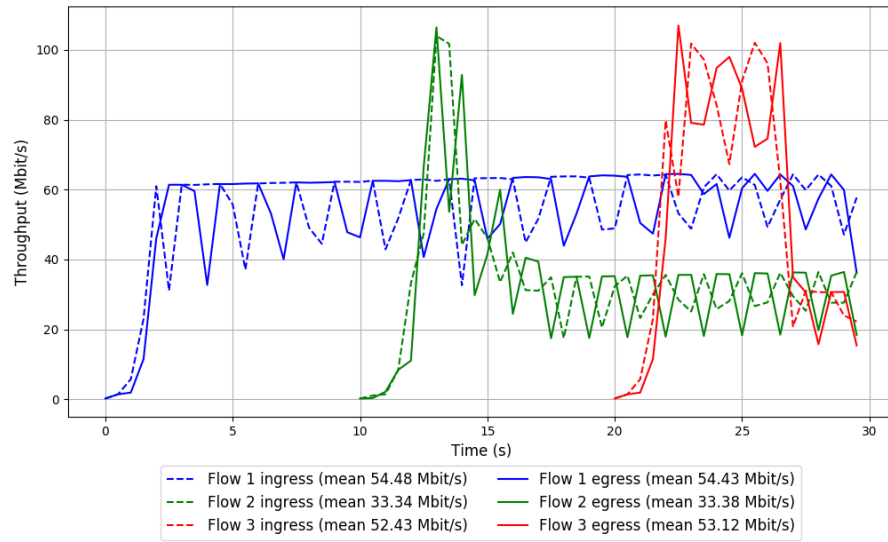
-- Flow 3:

Average throughput: 53.12 Mbit/s

95th percentile per-packet one-way delay: 150.160 ms

Loss rate: 1.50%

Run 5: Report of TCP Vegas — Data Link

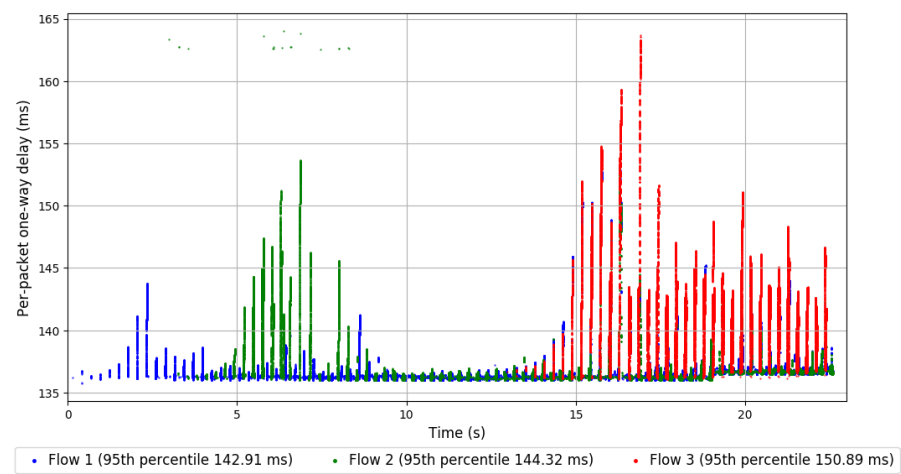
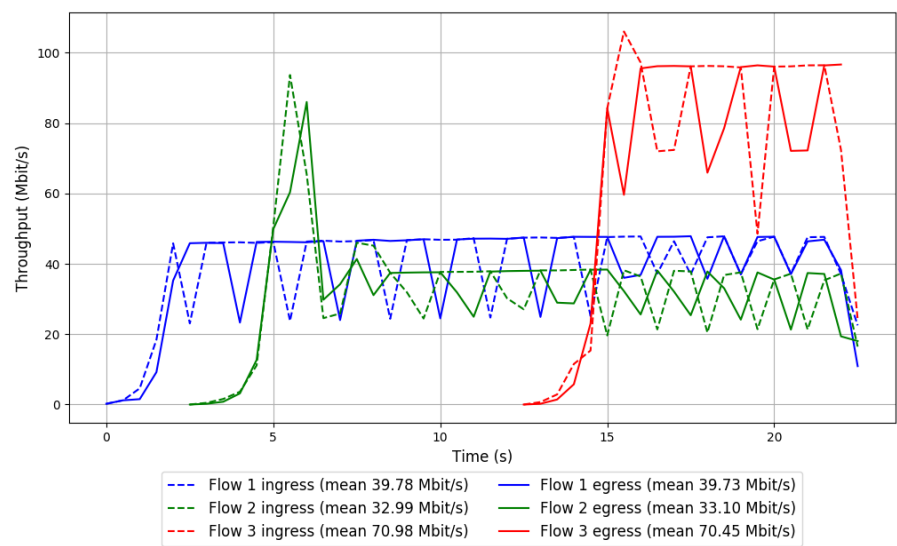


Run 6: Statistics of TCP Vegas

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

End at: 2017-12-12 12:49:38

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-12 13:03:27

End at: 2017-12-12 13:03:57

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.21 Mbit/s

95th percentile per-packet one-way delay: 144.041 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 139.401 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 40.94 Mbit/s

95th percentile per-packet one-way delay: 147.381 ms

Loss rate: 1.31%

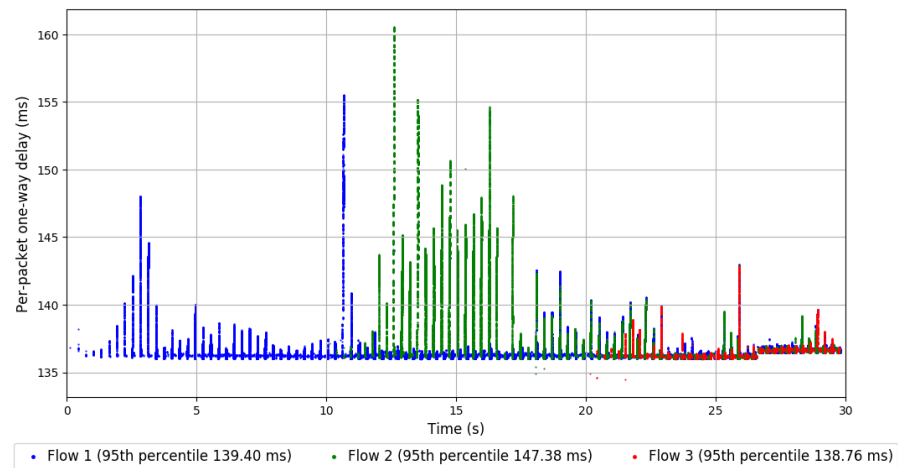
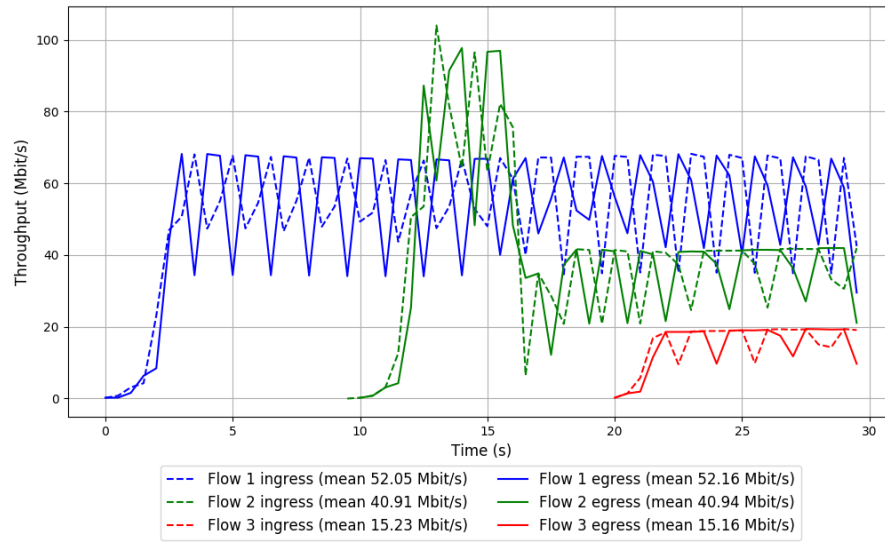
-- Flow 3:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 138.760 ms

Loss rate: 3.22%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-12 13:17:23

End at: 2017-12-12 13:17:53

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 142.784 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 145.842 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 139.318 ms

Loss rate: 1.57%

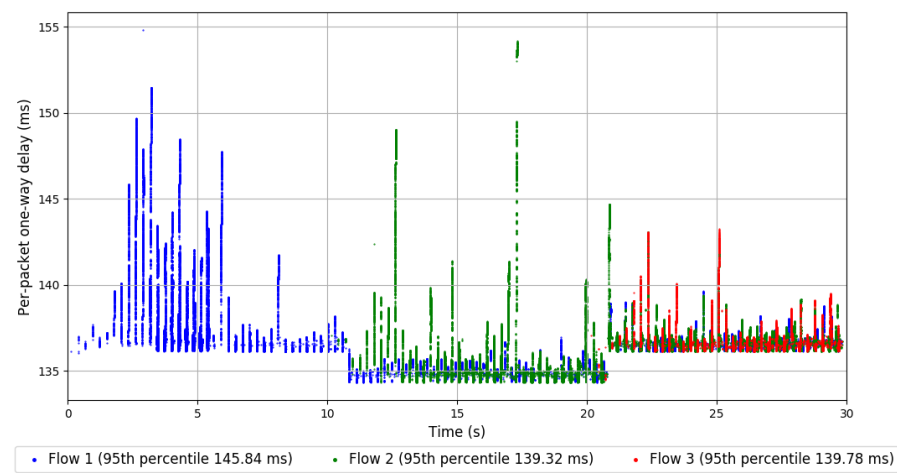
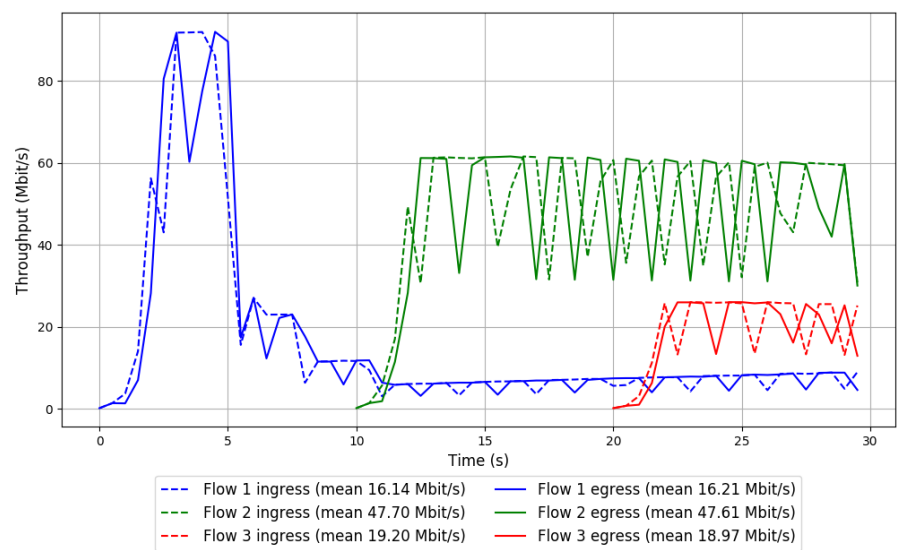
-- Flow 3:

Average throughput: 18.97 Mbit/s

95th percentile per-packet one-way delay: 139.775 ms

Loss rate: 3.34%

Run 8: Report of TCP Vegas — Data Link

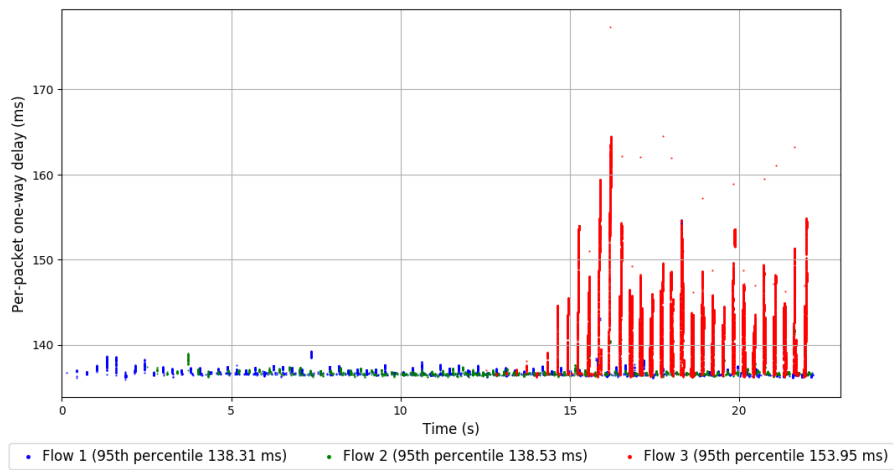
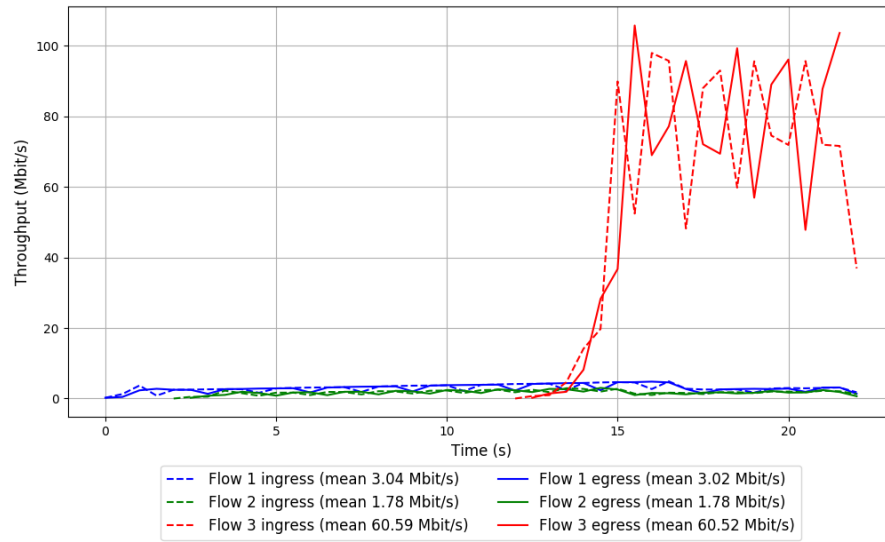


Run 9: Statistics of TCP Vegas

Start at: 2017-12-12 13:31:41

End at: 2017-12-12 13:32:11

Run 9: Report of TCP Vegas — Data Link

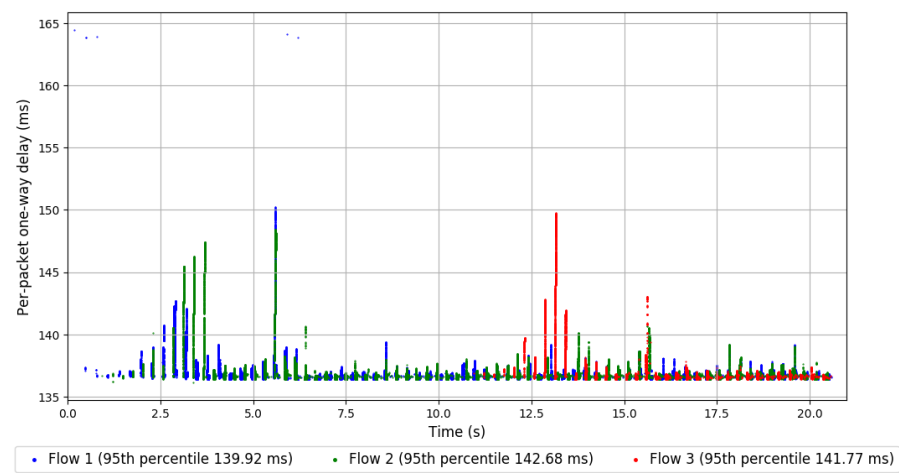
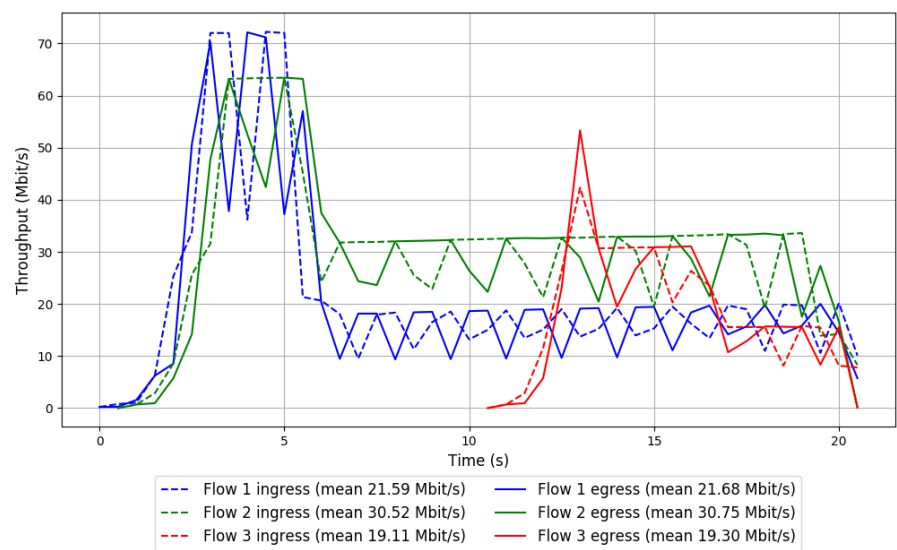


Run 10: Statistics of TCP Vegas

Start at: 2017-12-12 13:46:12

End at: 2017-12-12 13:46:42

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-12 11:41:46

End at: 2017-12-12 11:42:16

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.83 Mbit/s

95th percentile per-packet one-way delay: 234.580 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 137.53 Mbit/s

95th percentile per-packet one-way delay: 242.796 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 122.03 Mbit/s

95th percentile per-packet one-way delay: 225.828 ms

Loss rate: 0.45%

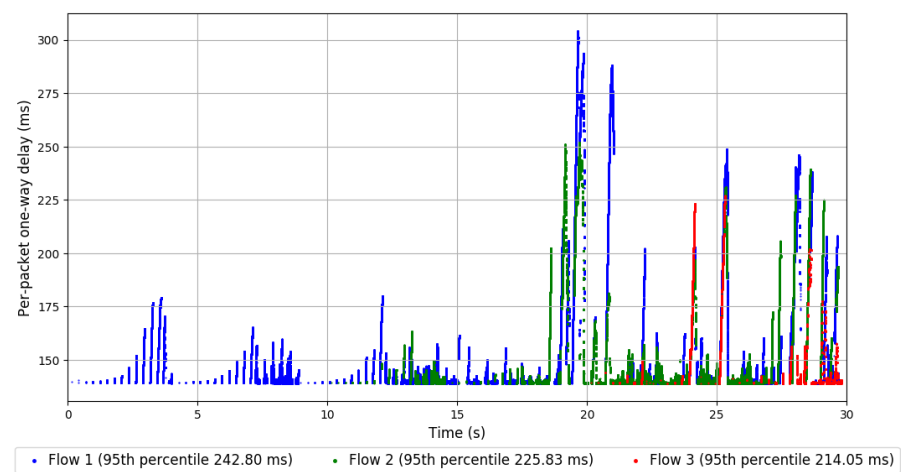
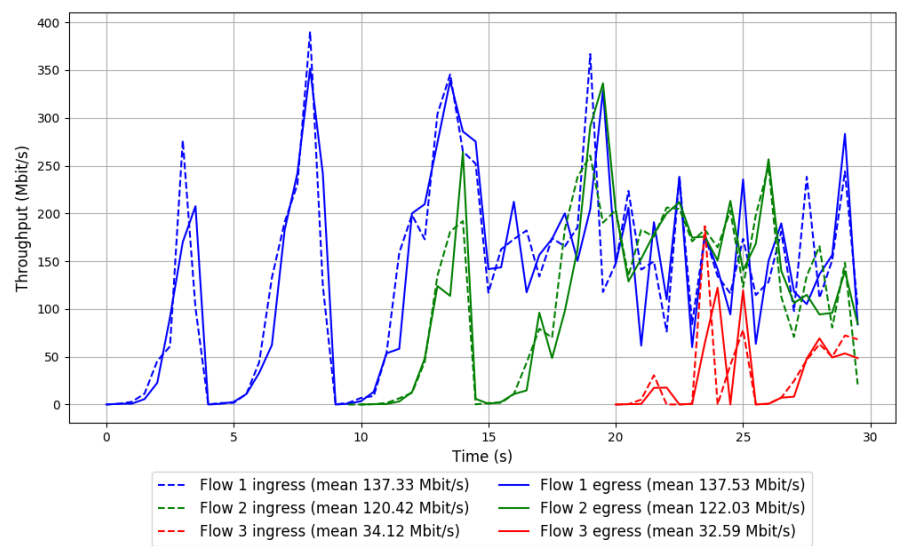
-- Flow 3:

Average throughput: 32.59 Mbit/s

95th percentile per-packet one-way delay: 214.051 ms

Loss rate: 7.12%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-12 11:55:26

End at: 2017-12-12 11:55:56

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.19 Mbit/s

95th percentile per-packet one-way delay: 264.676 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 113.13 Mbit/s

95th percentile per-packet one-way delay: 264.953 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 155.77 Mbit/s

95th percentile per-packet one-way delay: 205.547 ms

Loss rate: 2.70%

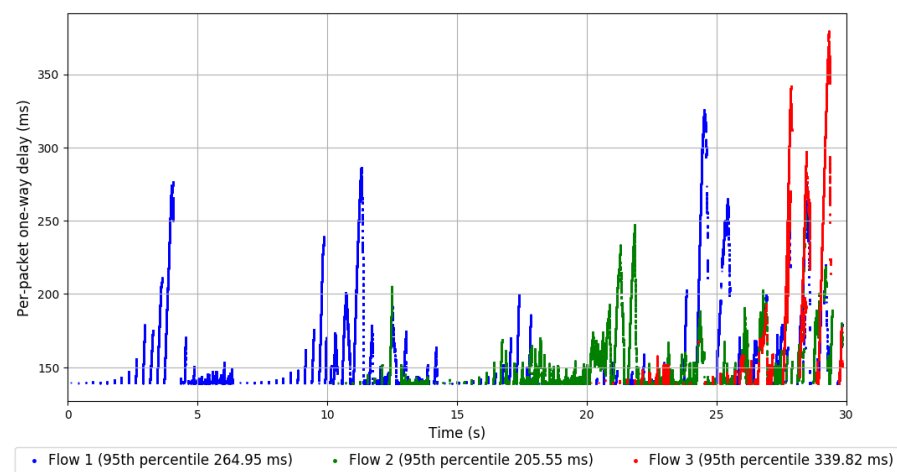
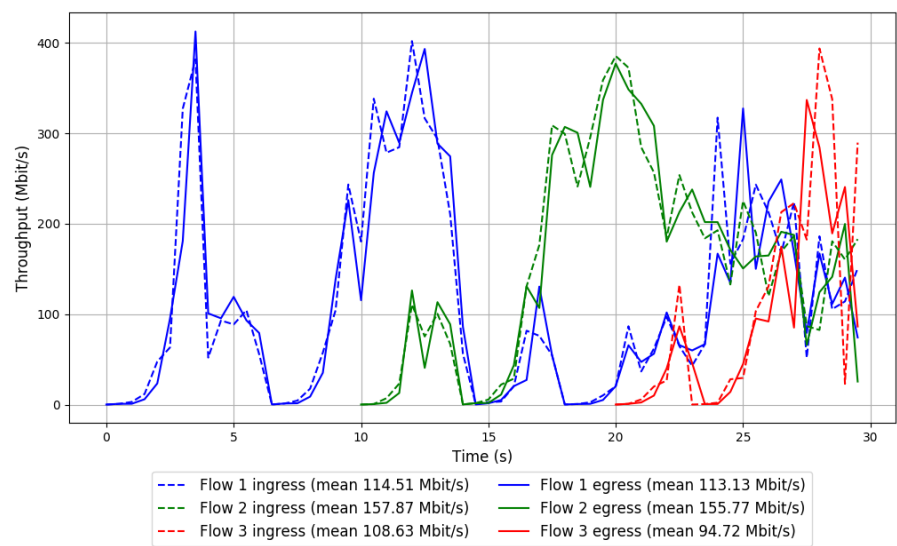
-- Flow 3:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 339.820 ms

Loss rate: 14.56%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

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

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

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.62 Mbit/s

95th percentile per-packet one-way delay: 285.416 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 205.087 ms

Loss rate: 1.92%

-- Flow 2:

Average throughput: 183.93 Mbit/s

95th percentile per-packet one-way delay: 293.830 ms

Loss rate: 1.49%

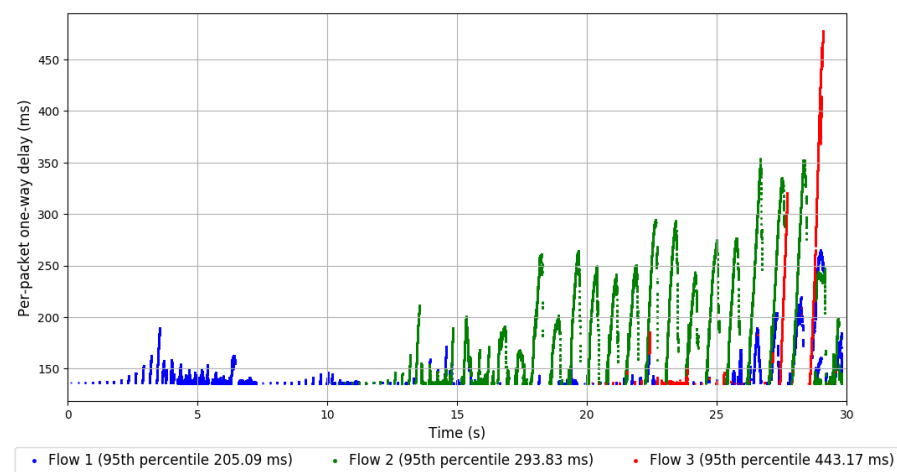
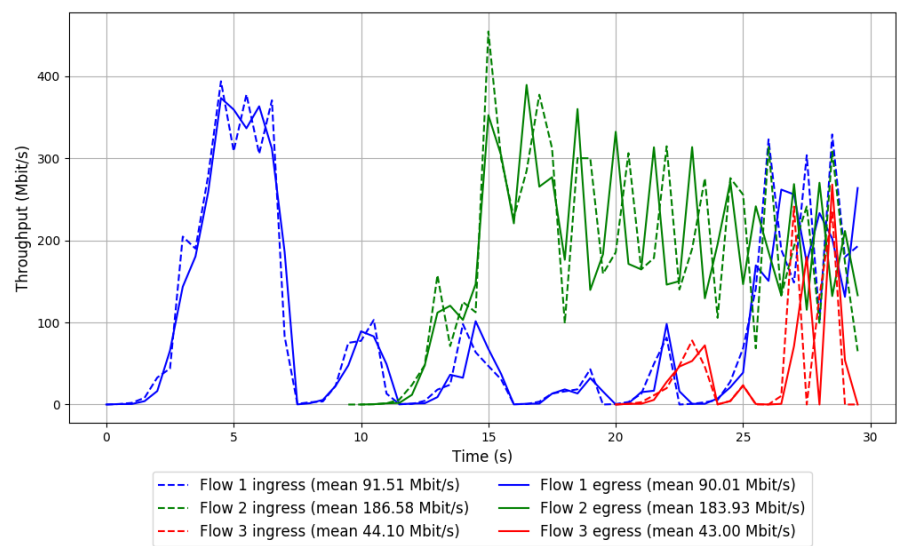
-- Flow 3:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 443.172 ms

Loss rate: 5.24%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-12 12:23:05

End at: 2017-12-12 12:23:35

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.84 Mbit/s

95th percentile per-packet one-way delay: 318.001 ms

Loss rate: 6.57%

-- Flow 1:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 336.977 ms

Loss rate: 9.39%

-- Flow 2:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 159.463 ms

Loss rate: 0.12%

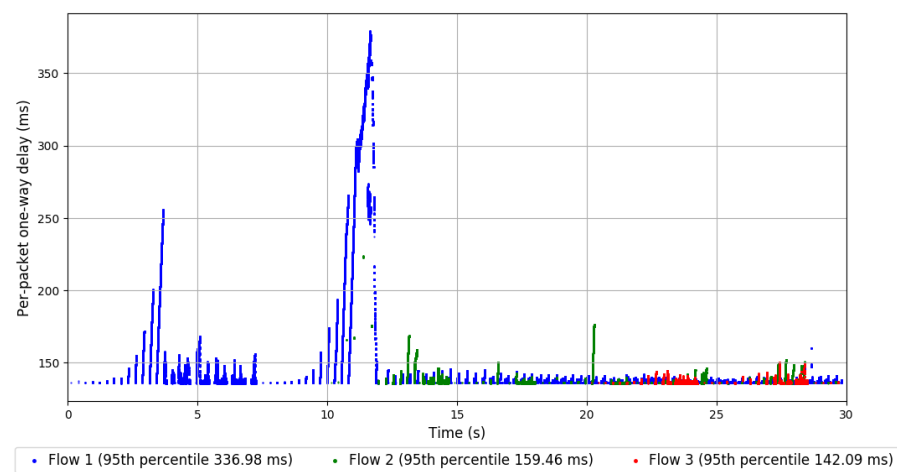
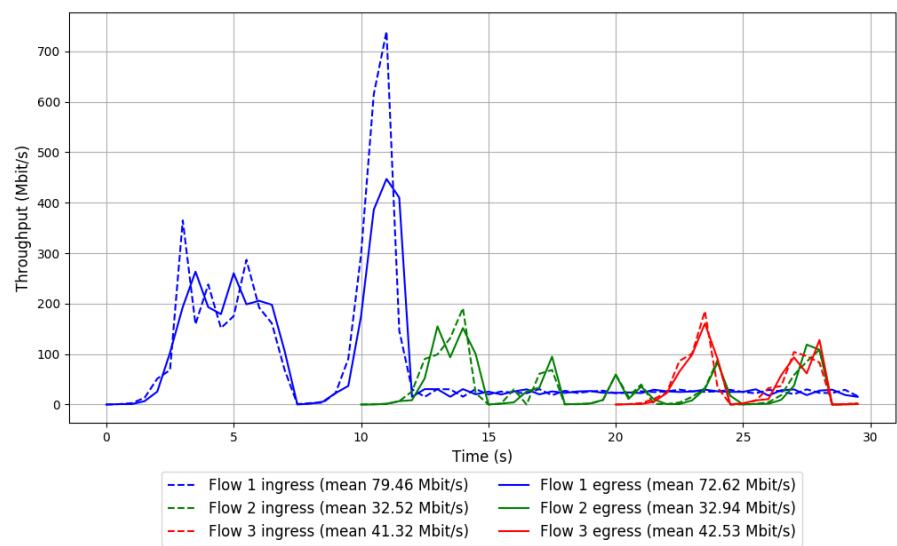
-- Flow 3:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 142.085 ms

Loss rate: 0.20%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-12 12:37:02

End at: 2017-12-12 12:37:32

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.98 Mbit/s

95th percentile per-packet one-way delay: 210.020 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 133.53 Mbit/s

95th percentile per-packet one-way delay: 178.688 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 129.52 Mbit/s

95th percentile per-packet one-way delay: 188.365 ms

Loss rate: 0.81%

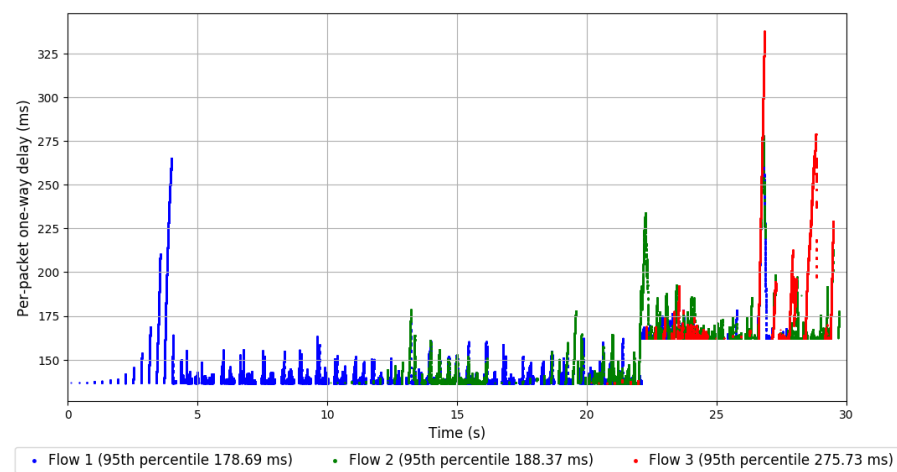
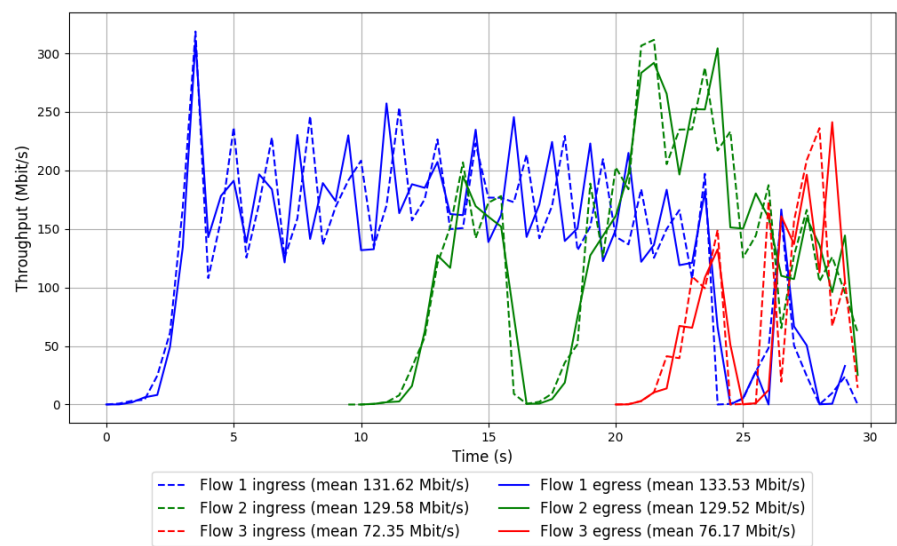
-- Flow 3:

Average throughput: 76.17 Mbit/s

95th percentile per-packet one-way delay: 275.728 ms

Loss rate: 1.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-12 12:51:18

End at: 2017-12-12 12:51:48

Below is generated by plot.py at 2017-12-12 16:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.45 Mbit/s

95th percentile per-packet one-way delay: 209.886 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 145.27 Mbit/s

95th percentile per-packet one-way delay: 208.812 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 108.22 Mbit/s

95th percentile per-packet one-way delay: 217.705 ms

Loss rate: 2.40%

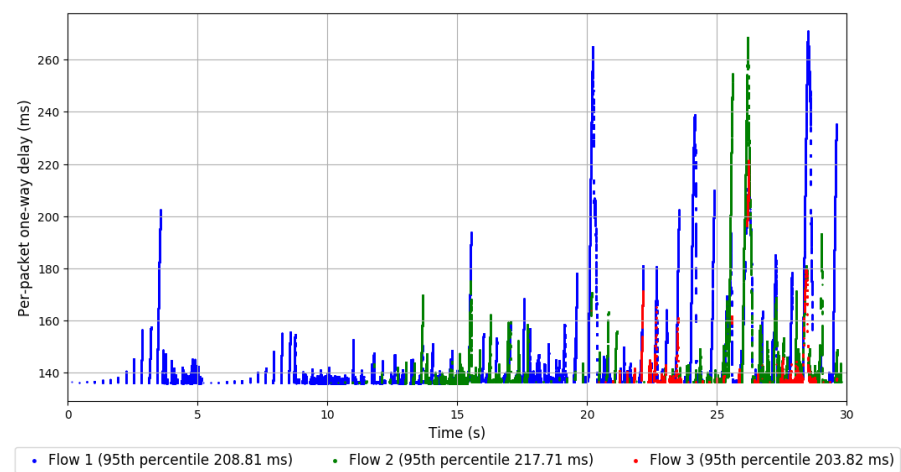
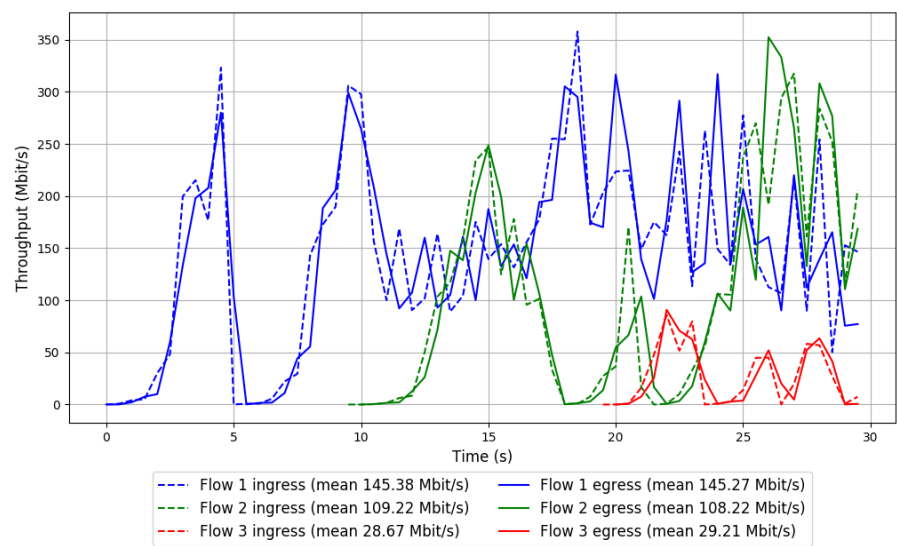
-- Flow 3:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 203.824 ms

Loss rate: 1.34%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-12 13:05:30

End at: 2017-12-12 13:06:00

Below is generated by plot.py at 2017-12-12 16:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.06 Mbit/s

95th percentile per-packet one-way delay: 237.268 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 134.92 Mbit/s

95th percentile per-packet one-way delay: 192.785 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 59.88 Mbit/s

95th percentile per-packet one-way delay: 348.704 ms

Loss rate: 12.11%

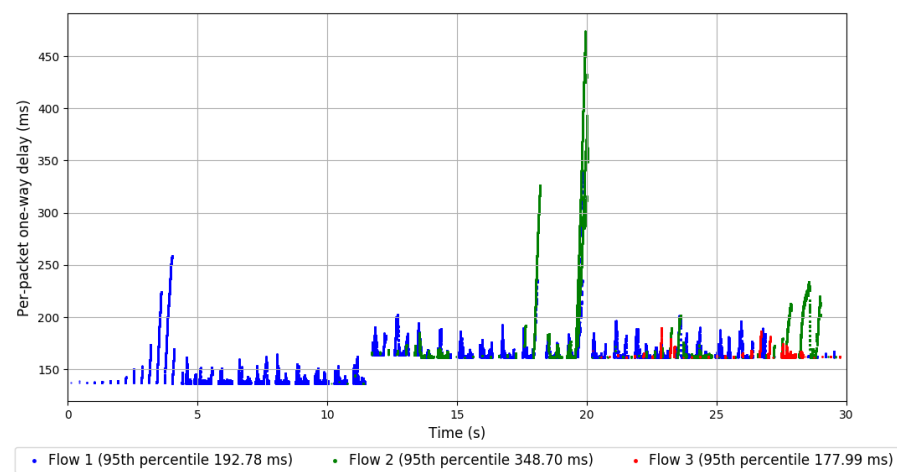
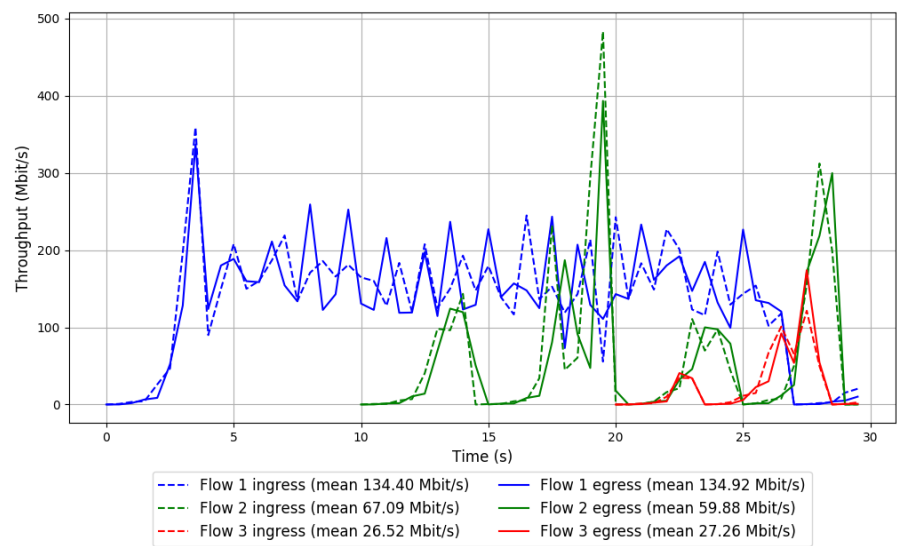
-- Flow 3:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 177.993 ms

Loss rate: 0.36%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-12 13:19:33

End at: 2017-12-12 13:20:03

Below is generated by plot.py at 2017-12-12 16:46:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.42 Mbit/s

95th percentile per-packet one-way delay: 217.783 ms

Loss rate: 3.68%

-- Flow 1:

Average throughput: 164.55 Mbit/s

95th percentile per-packet one-way delay: 246.479 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 48.67 Mbit/s

95th percentile per-packet one-way delay: 218.804 ms

Loss rate: 5.65%

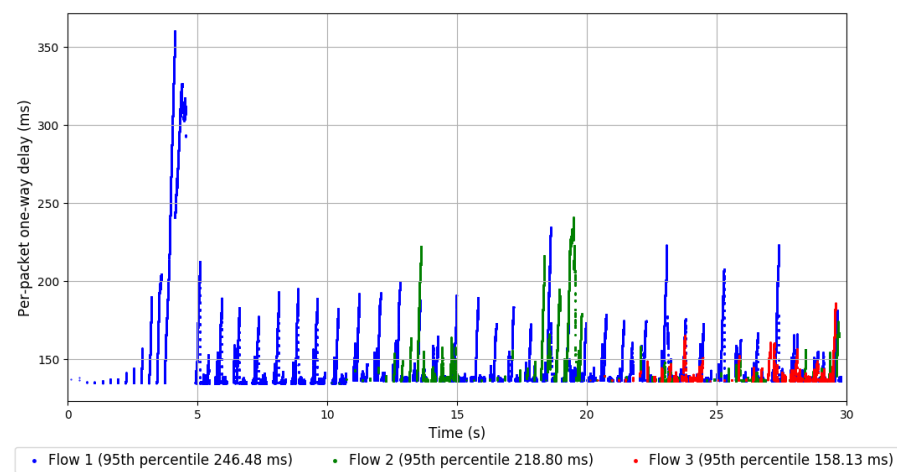
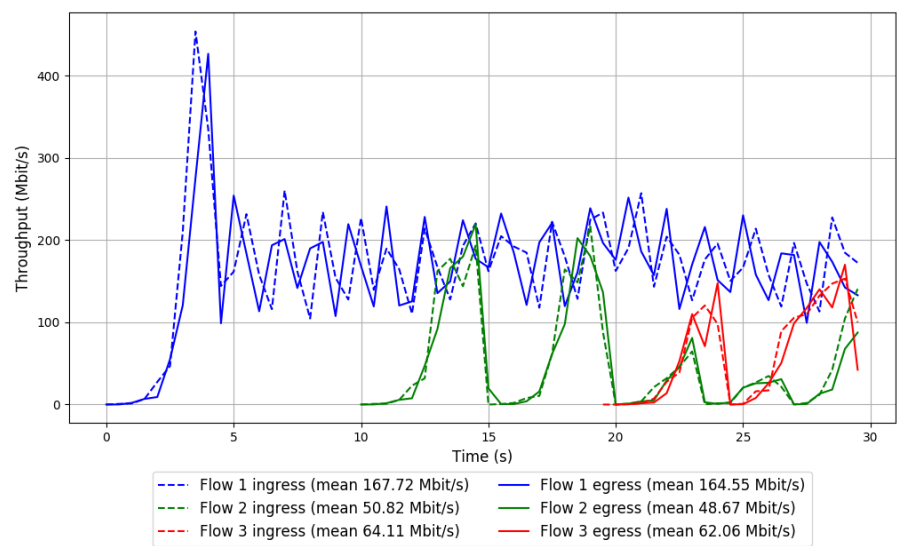
-- Flow 3:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 158.132 ms

Loss rate: 7.87%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-12 13:33:44

End at: 2017-12-12 13:34:14

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.15 Mbit/s

95th percentile per-packet one-way delay: 275.974 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 146.58 Mbit/s

95th percentile per-packet one-way delay: 231.465 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 209.52 Mbit/s

95th percentile per-packet one-way delay: 303.078 ms

Loss rate: 3.80%

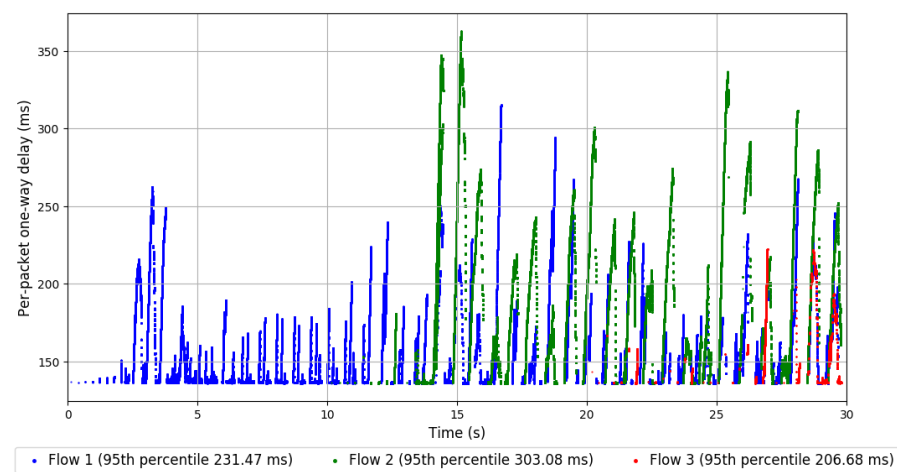
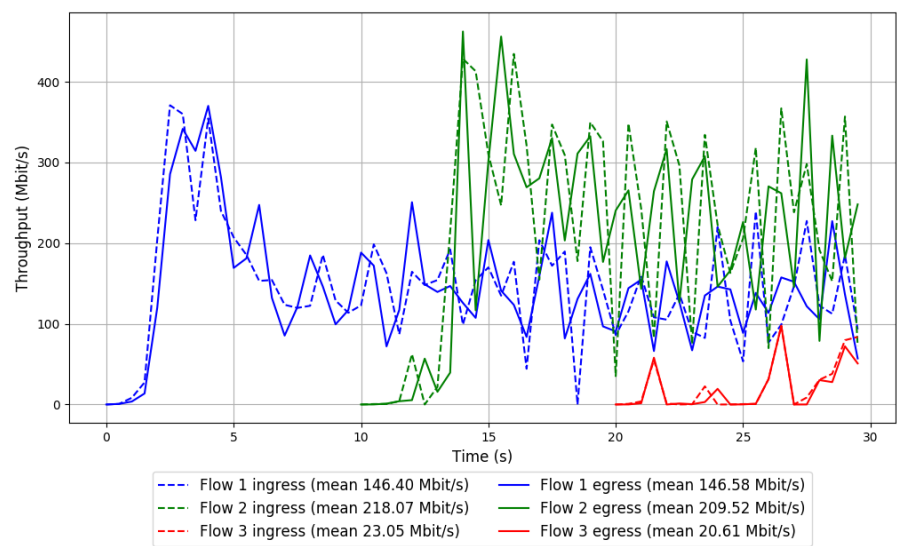
-- Flow 3:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 206.682 ms

Loss rate: 13.11%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-12 13:48:21

End at: 2017-12-12 13:48:51

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.08 Mbit/s

95th percentile per-packet one-way delay: 209.227 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 159.88 Mbit/s

95th percentile per-packet one-way delay: 187.320 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 80.22 Mbit/s

95th percentile per-packet one-way delay: 211.497 ms

Loss rate: 3.74%

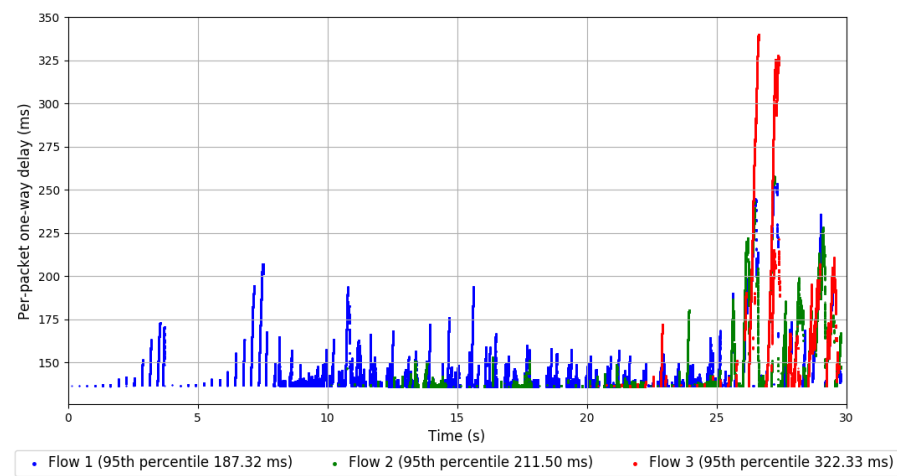
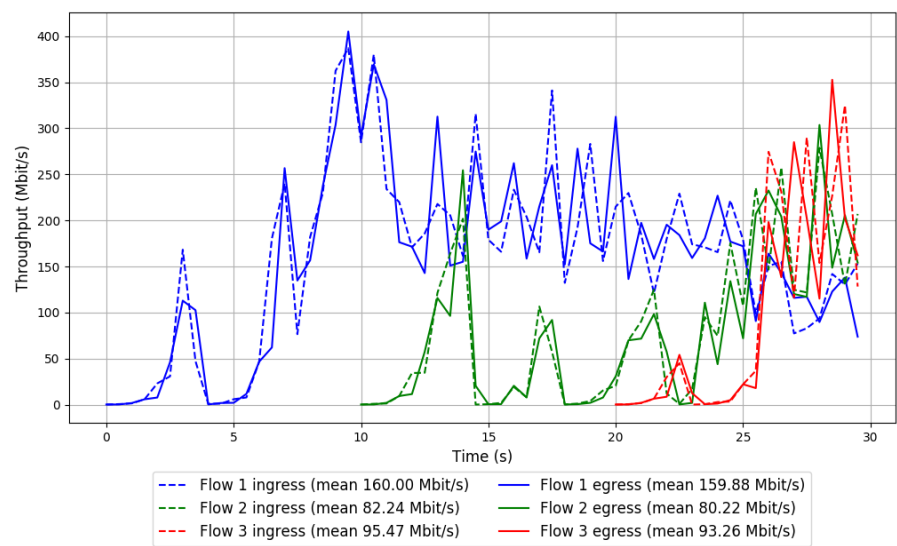
-- Flow 3:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 322.326 ms

Loss rate: 5.73%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-12 11:44:42

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

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 162.196 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 162.531 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 67.87 Mbit/s

95th percentile per-packet one-way delay: 139.153 ms

Loss rate: 2.00%

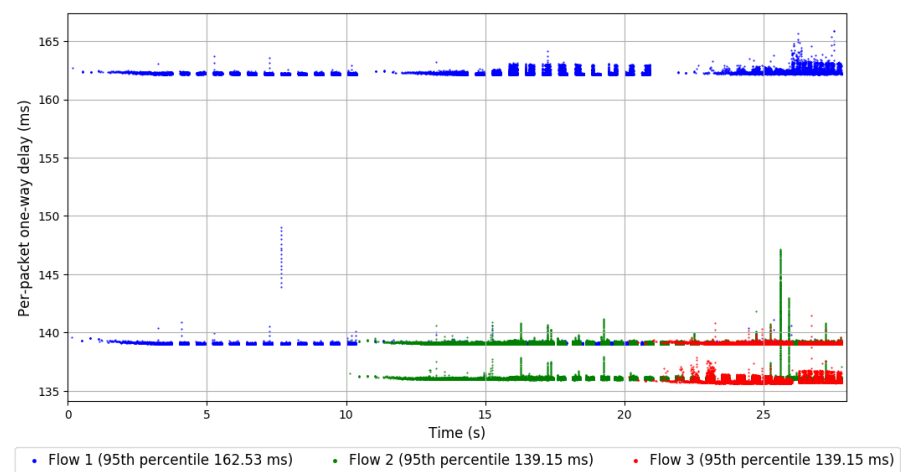
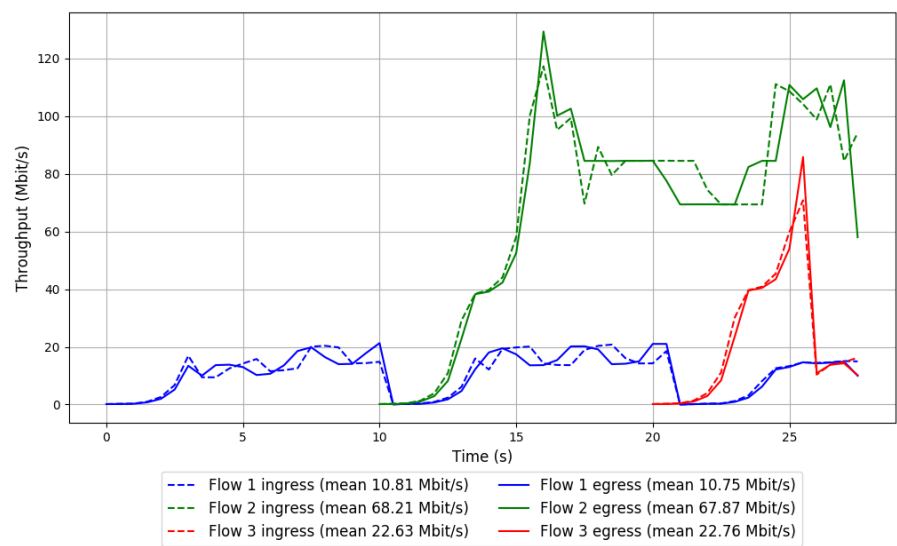
-- Flow 3:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 139.153 ms

Loss rate: 2.87%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-12 11:58:24

End at: 2017-12-12 11:58:54

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 139.136 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 139.258 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 139.137 ms

Loss rate: 1.34%

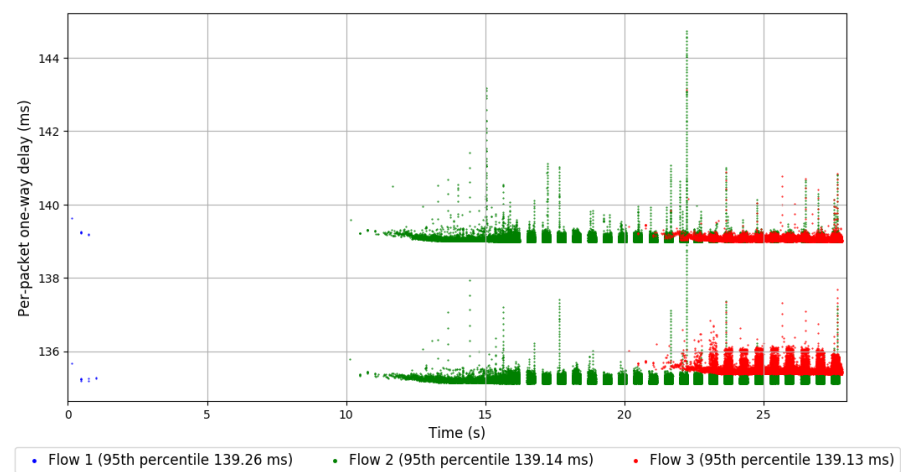
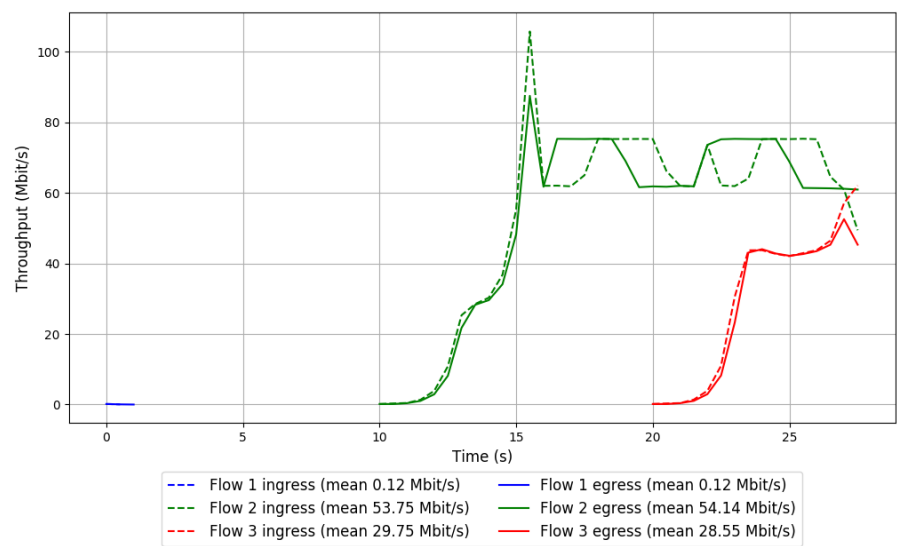
-- Flow 3:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 139.130 ms

Loss rate: 7.35%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-12 12:11:57

End at: 2017-12-12 12:12:27

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 136.232 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 135.666 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 136.223 ms

Loss rate: 1.57%

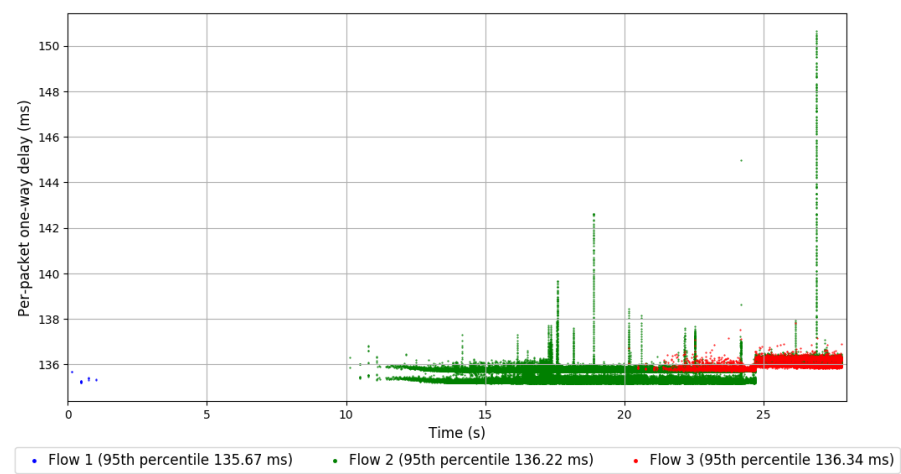
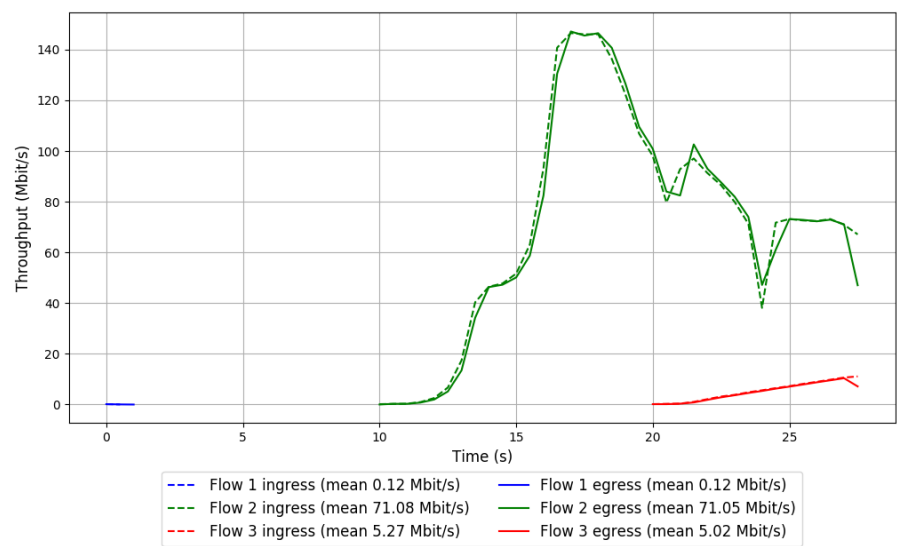
-- Flow 3:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 136.336 ms

Loss rate: 8.28%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-12 12:25:48

End at: 2017-12-12 12:26:18

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 160.656 ms

Loss rate: 4.21%

-- Flow 1:

Average throughput: 10.30 Mbit/s

95th percentile per-packet one-way delay: 160.772 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 11.22 Mbit/s

95th percentile per-packet one-way delay: 160.389 ms

Loss rate: 1.78%

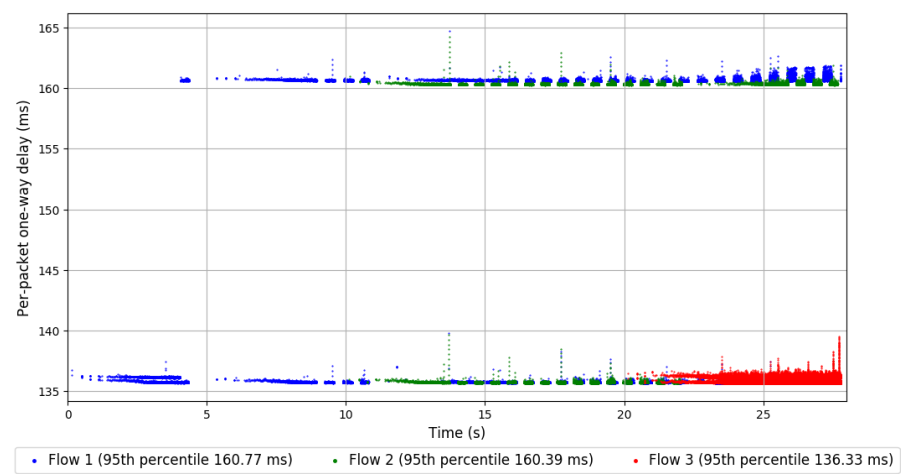
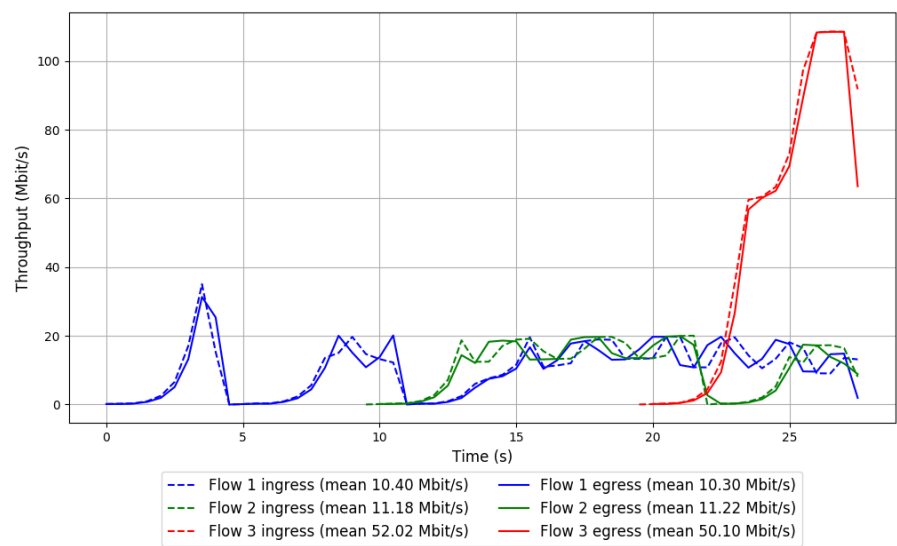
-- Flow 3:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 7.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-12 12:40:03

End at: 2017-12-12 12:40:33

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 136.736 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 136.354 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 54.66 Mbit/s

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

Loss rate: 1.11%

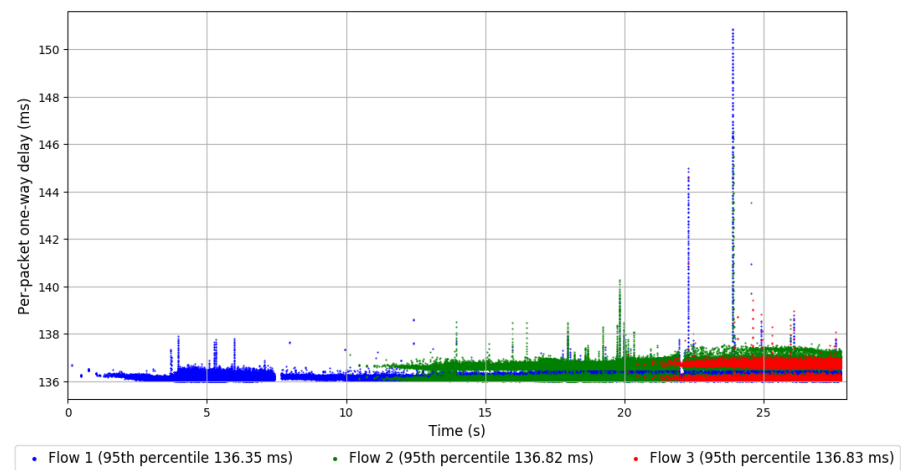
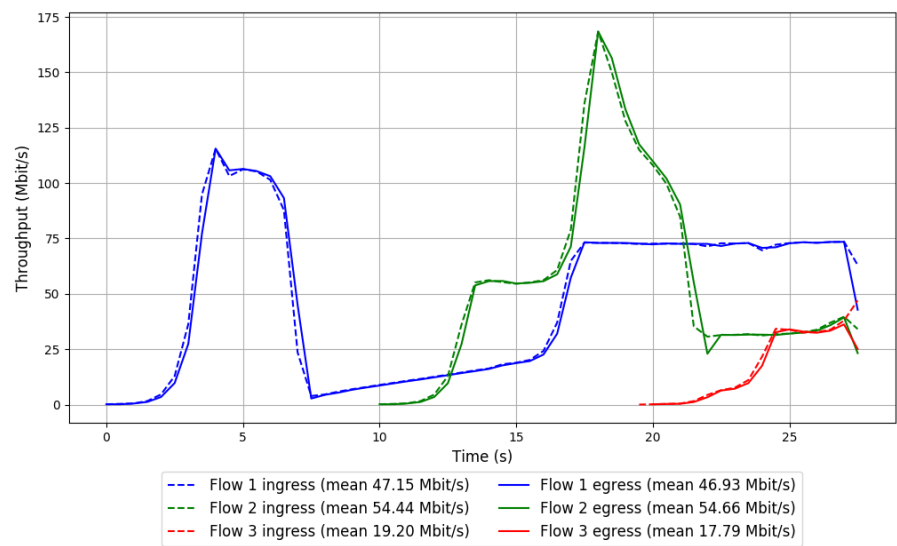
-- Flow 3:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 10.80%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-12 12:54:20

End at: 2017-12-12 12:54:50

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 136.716 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 45.93 Mbit/s

95th percentile per-packet one-way delay: 136.167 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 136.169 ms

Loss rate: 1.63%

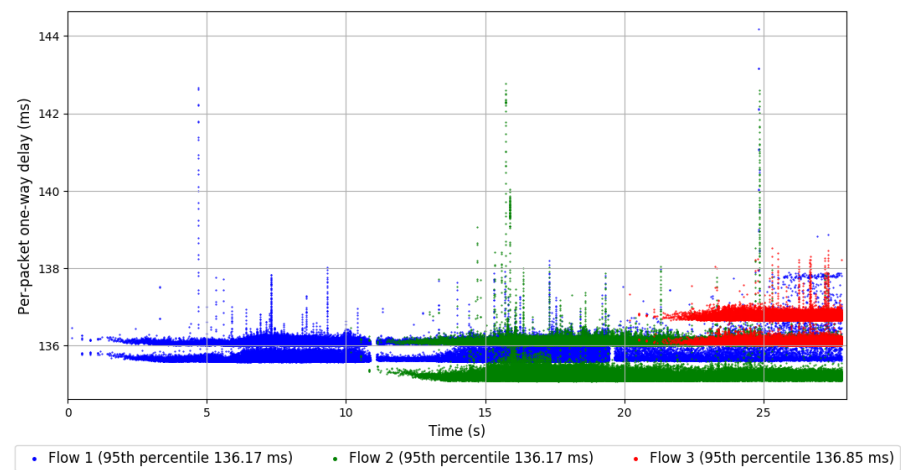
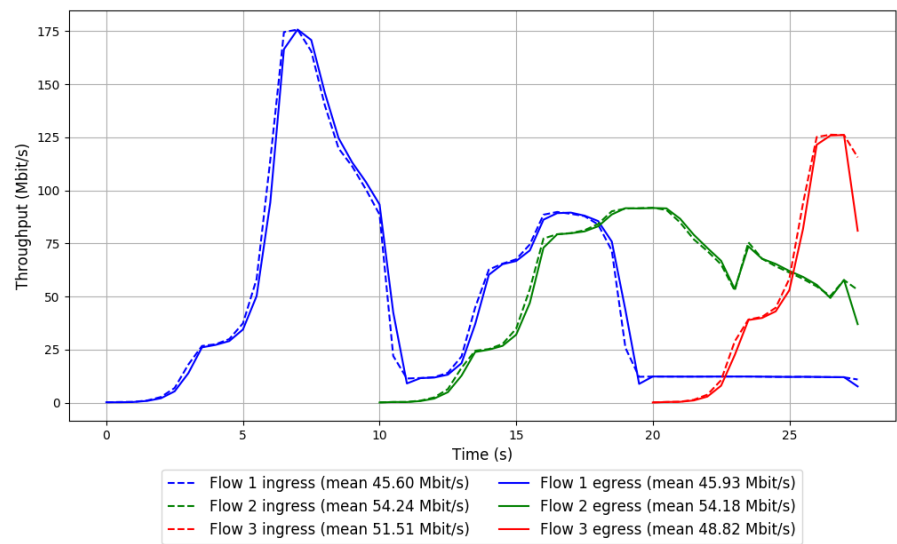
-- Flow 3:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 136.854 ms

Loss rate: 8.47%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-12 13:08:21

End at: 2017-12-12 13:08:51

Below is generated by plot.py at 2017-12-12 16:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 163.433 ms

Loss rate: 5.96%

-- Flow 1:

Average throughput: 19.32 Mbit/s

95th percentile per-packet one-way delay: 163.450 ms

Loss rate: 4.20%

-- Flow 2:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 163.428 ms

Loss rate: 6.25%

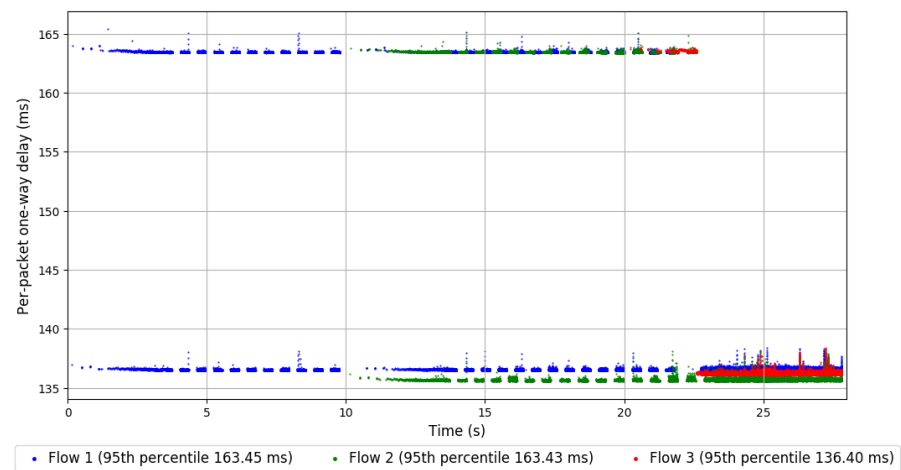
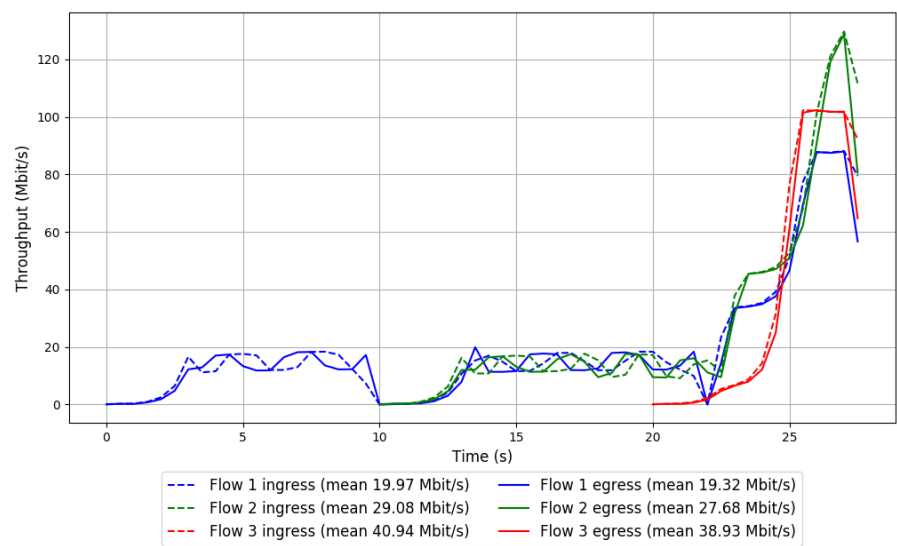
-- Flow 3:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 136.403 ms

Loss rate: 8.51%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-12 13:22:31

End at: 2017-12-12 13:23:01

Below is generated by plot.py at 2017-12-12 16:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.17 Mbit/s

95th percentile per-packet one-way delay: 136.245 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 136.242 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 136.192 ms

Loss rate: 2.12%

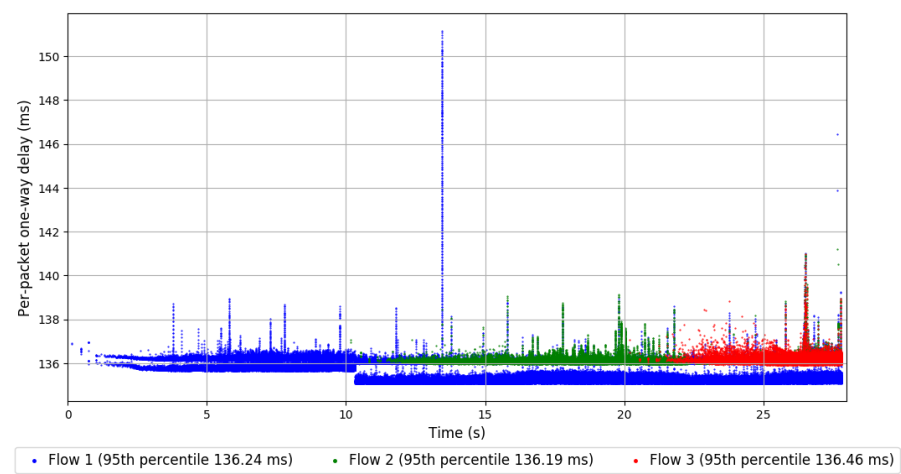
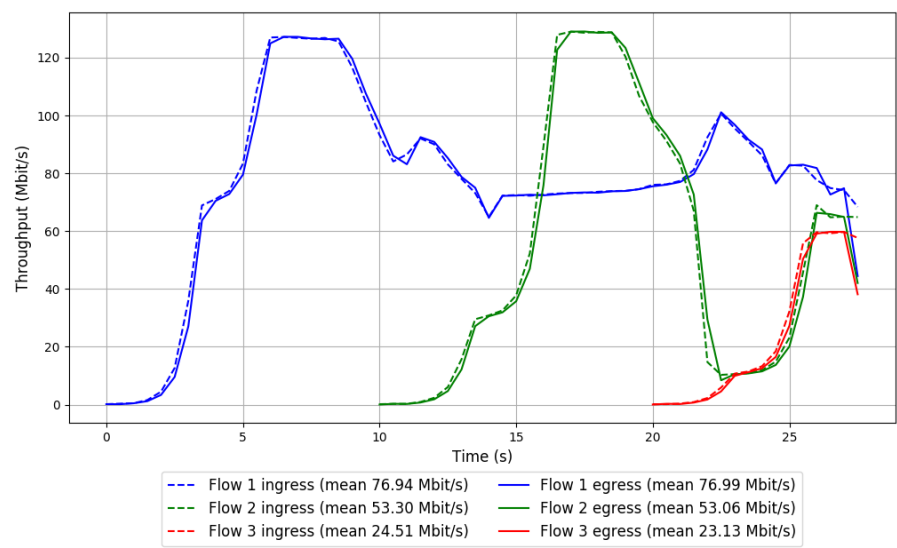
-- Flow 3:

Average throughput: 23.13 Mbit/s

95th percentile per-packet one-way delay: 136.463 ms

Loss rate: 9.20%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-12 13:36:50

End at: 2017-12-12 13:37:20

Below is generated by plot.py at 2017-12-12 16:48:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.39 Mbit/s

95th percentile per-packet one-way delay: 136.795 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 71.99 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 56.53 Mbit/s

95th percentile per-packet one-way delay: 136.918 ms

Loss rate: 1.72%

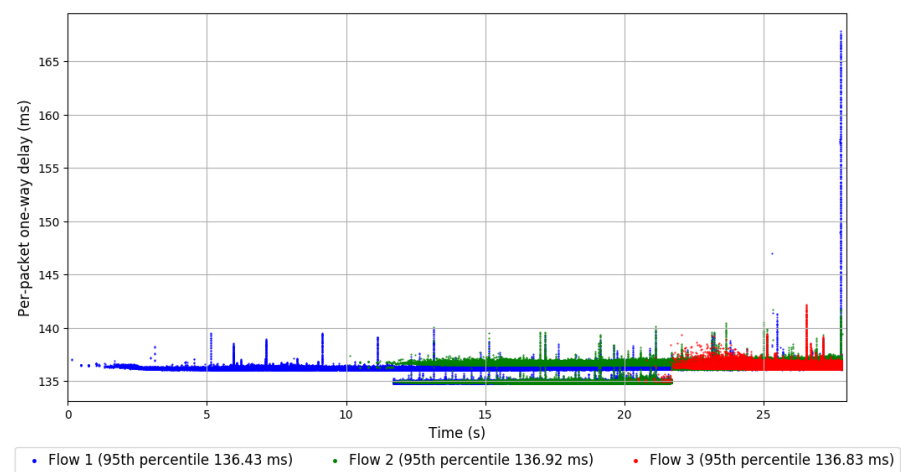
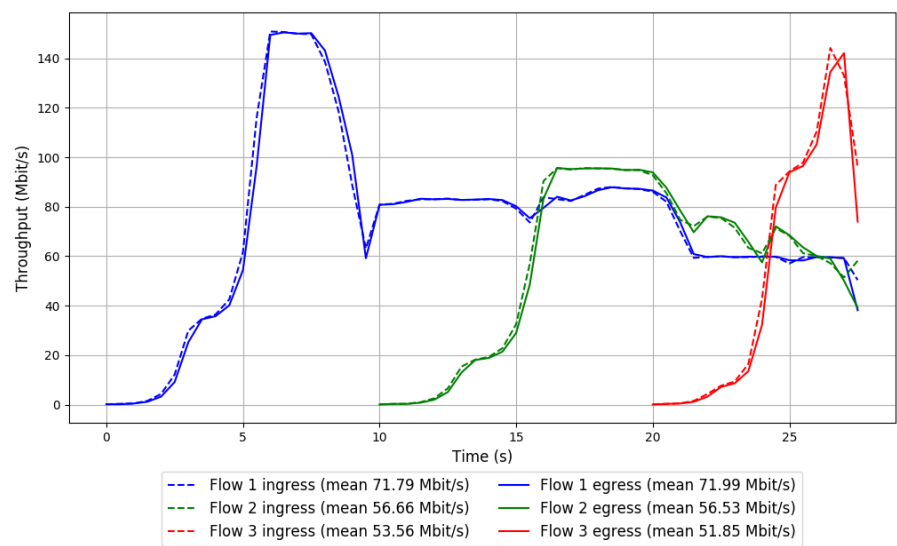
-- Flow 3:

Average throughput: 51.85 Mbit/s

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

Loss rate: 6.51%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-12 13:51:19

End at: 2017-12-12 13:51:49

Below is generated by plot.py at 2017-12-12 16:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.33 Mbit/s

95th percentile per-packet one-way delay: 136.718 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 136.731 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 136.460 ms

Loss rate: 0.42%

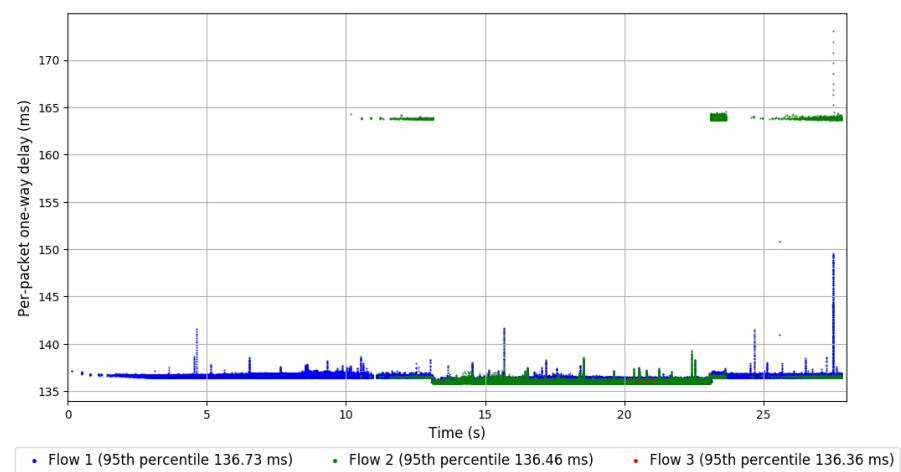
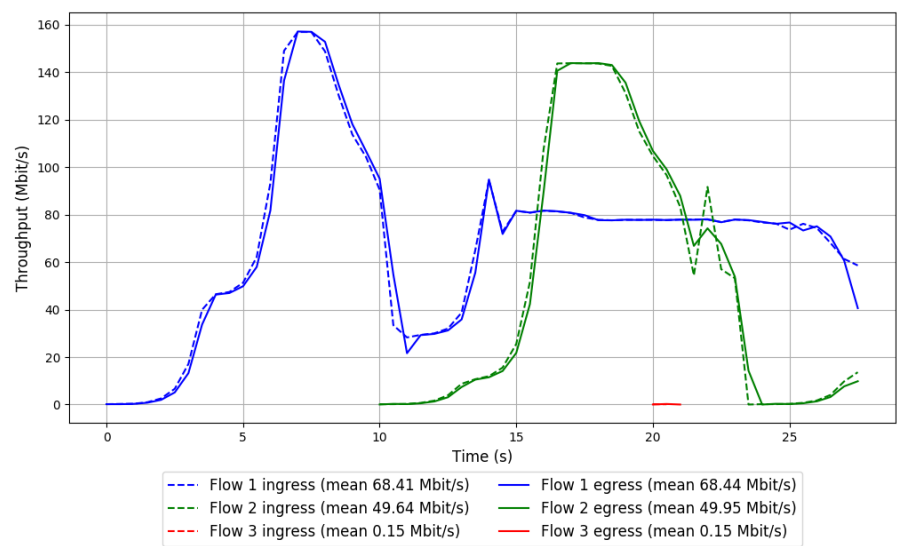
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.360 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

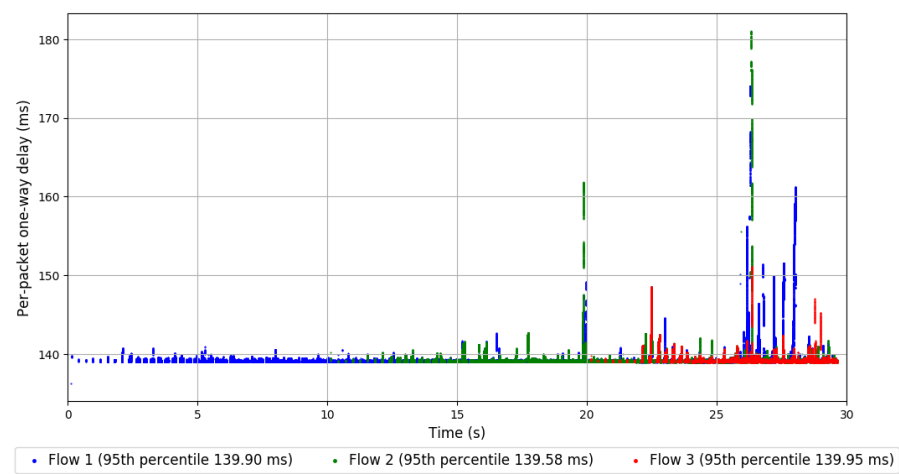
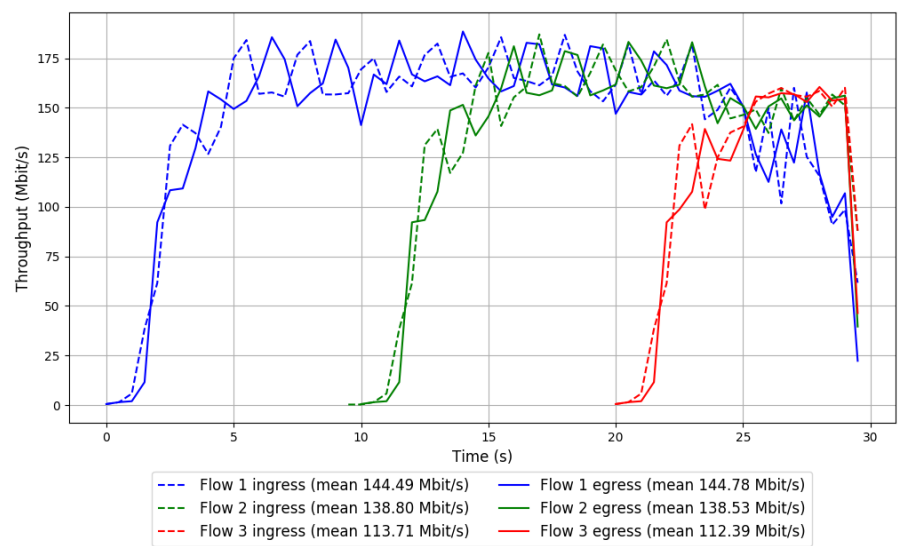


```
Run 1: Statistics of Indigo

Start at: 2017-12-12 11:40:32
End at: 2017-12-12 11:41:02

# Below is generated by plot.py at 2017-12-12 16:50:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.46 Mbit/s
95th percentile per-packet one-way delay: 139.770 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 144.78 Mbit/s
95th percentile per-packet one-way delay: 139.902 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 138.53 Mbit/s
95th percentile per-packet one-way delay: 139.582 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 112.39 Mbit/s
95th percentile per-packet one-way delay: 139.949 ms
Loss rate: 3.99%
```


Run 1: Report of Indigo — Data Link

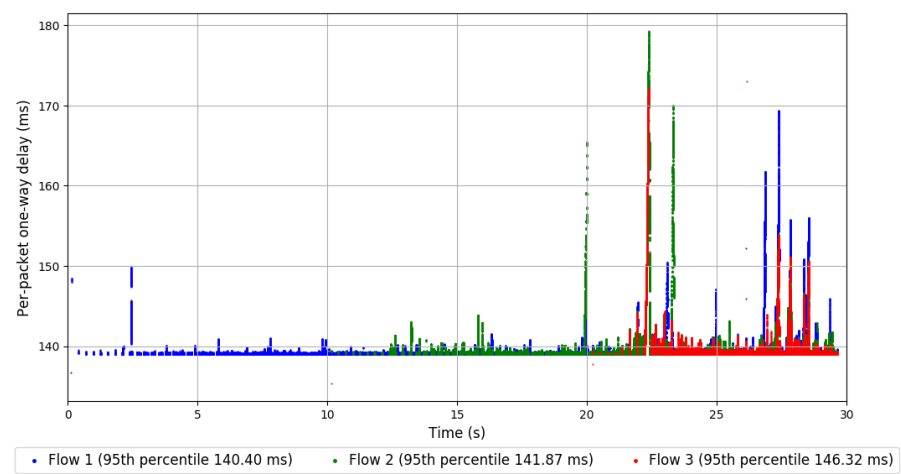
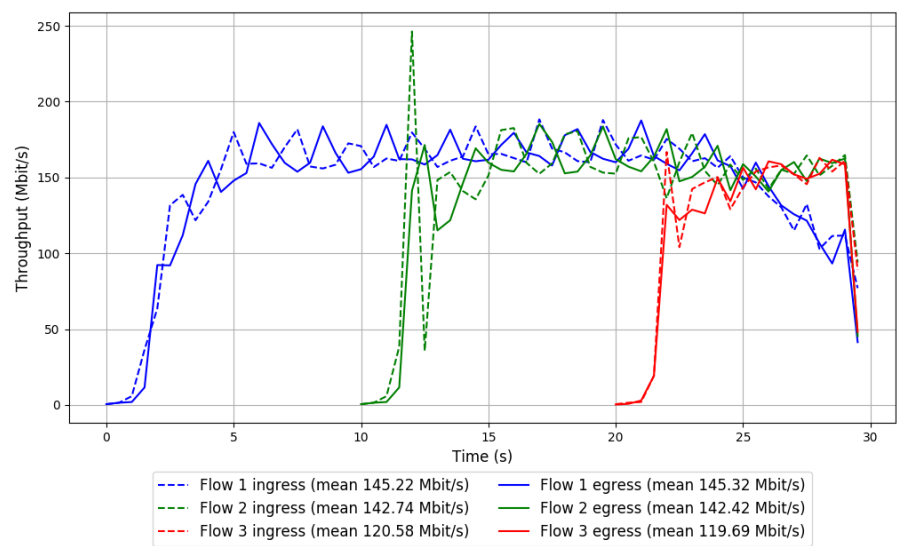


```
Run 2: Statistics of Indigo

Start at: 2017-12-12 11:54:11
End at: 2017-12-12 11:54:41

# Below is generated by plot.py at 2017-12-12 16:51:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.66 Mbit/s
95th percentile per-packet one-way delay: 141.534 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 145.32 Mbit/s
95th percentile per-packet one-way delay: 140.399 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 142.42 Mbit/s
95th percentile per-packet one-way delay: 141.873 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 119.69 Mbit/s
95th percentile per-packet one-way delay: 146.324 ms
Loss rate: 3.55%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

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

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

Below is generated by plot.py at 2017-12-12 16:51:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.64 Mbit/s

95th percentile per-packet one-way delay: 161.291 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 145.72 Mbit/s

95th percentile per-packet one-way delay: 161.334 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 135.74 Mbit/s

95th percentile per-packet one-way delay: 137.602 ms

Loss rate: 1.35%

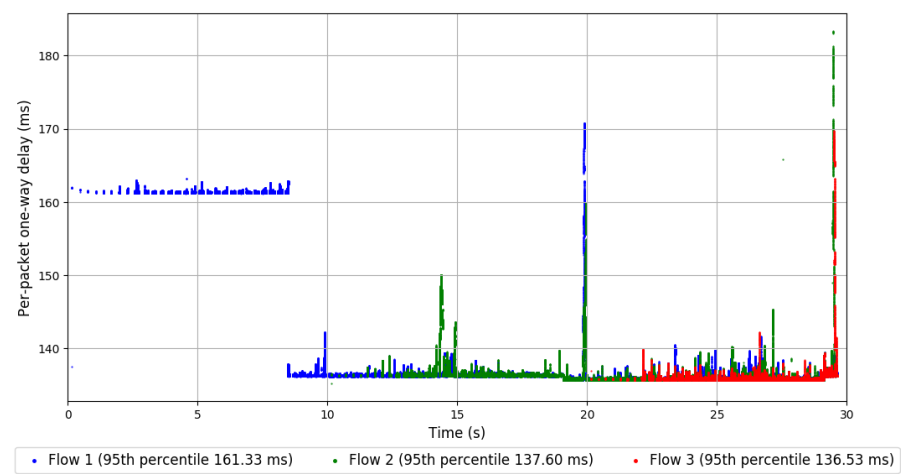
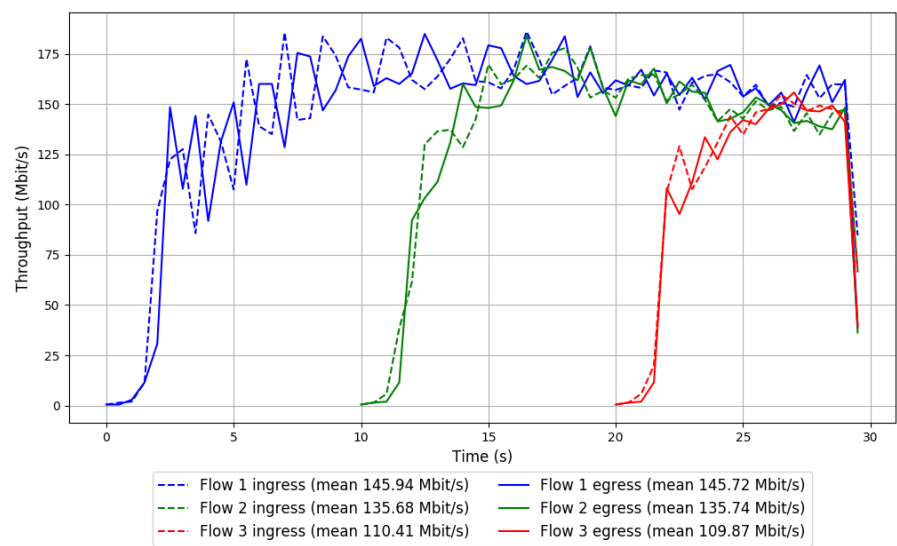
-- Flow 3:

Average throughput: 109.87 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 3.28%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

End at: 2017-12-12 12:22:17

Below is generated by plot.py at 2017-12-12 16:51:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.16 Mbit/s

95th percentile per-packet one-way delay: 162.262 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 128.99 Mbit/s

95th percentile per-packet one-way delay: 162.255 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 130.99 Mbit/s

95th percentile per-packet one-way delay: 162.249 ms

Loss rate: 0.94%

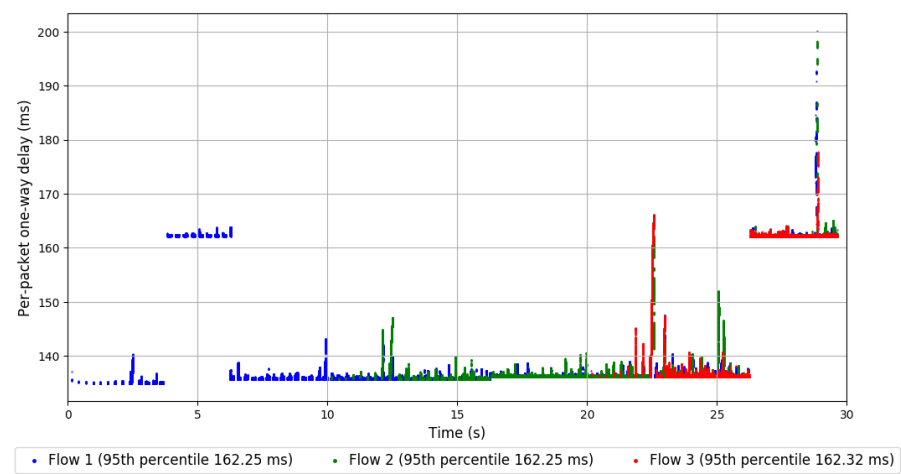
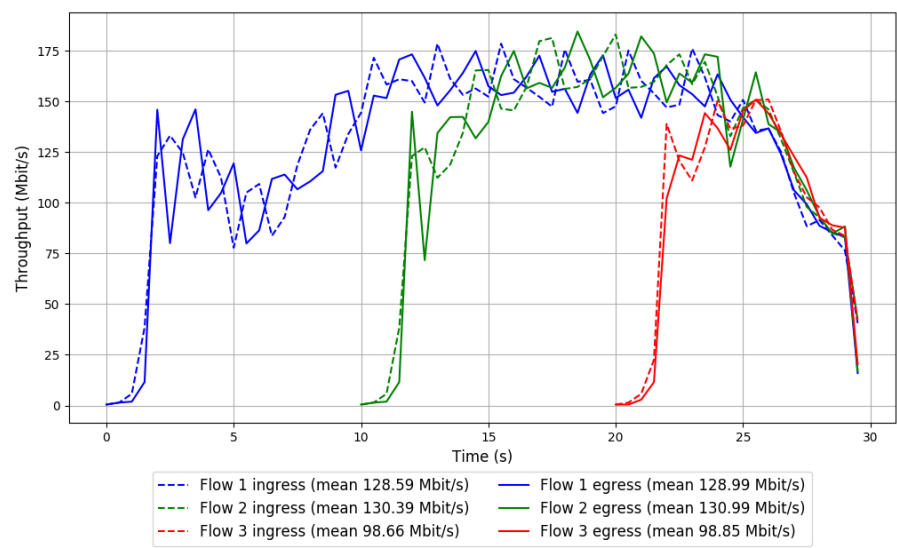
-- Flow 3:

Average throughput: 98.85 Mbit/s

95th percentile per-packet one-way delay: 162.318 ms

Loss rate: 2.56%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-12 12:35:49

End at: 2017-12-12 12:36:19

Below is generated by plot.py at 2017-12-12 16:51:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.11 Mbit/s

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

Loss rate: 1.51%

-- Flow 1:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 136.779 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 146.06 Mbit/s

95th percentile per-packet one-way delay: 136.923 ms

Loss rate: 1.54%

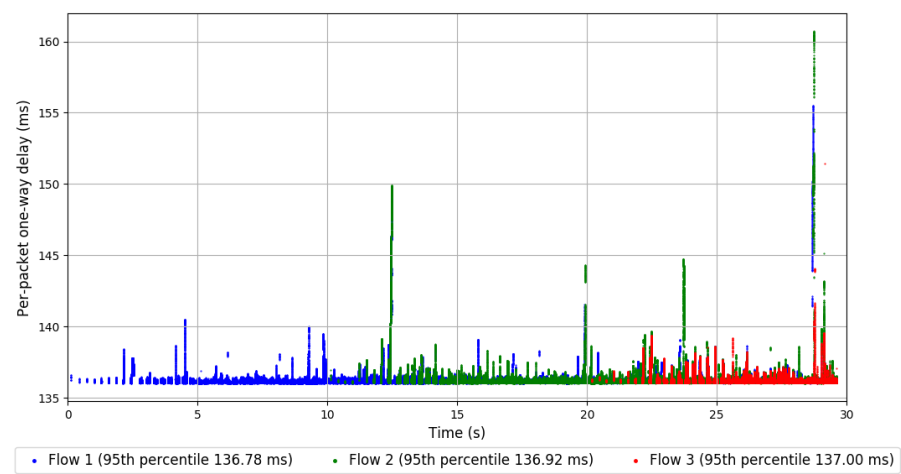
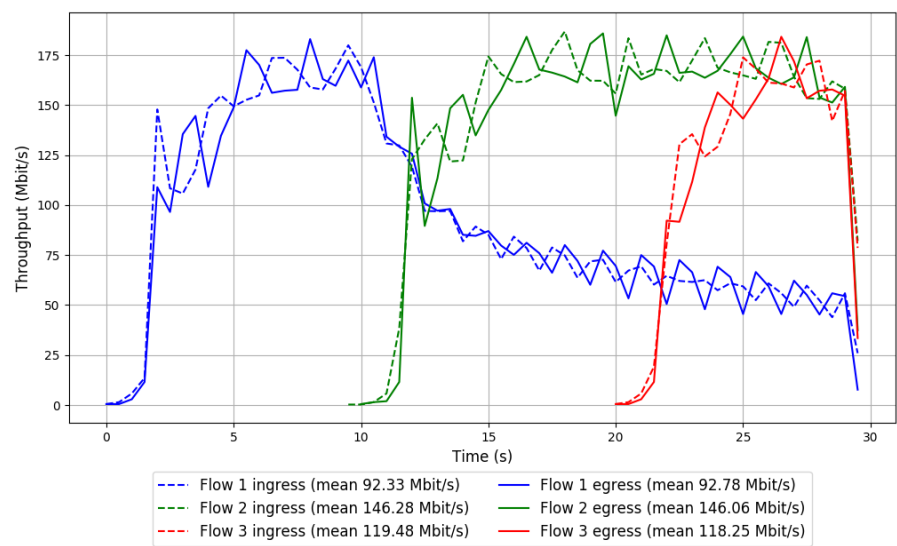
-- Flow 3:

Average throughput: 118.25 Mbit/s

95th percentile per-packet one-way delay: 137.002 ms

Loss rate: 3.78%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-12 12:50:03

End at: 2017-12-12 12:50:33

Below is generated by plot.py at 2017-12-12 16:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.32 Mbit/s

95th percentile per-packet one-way delay: 138.240 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 138.75 Mbit/s

95th percentile per-packet one-way delay: 137.597 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 129.33 Mbit/s

95th percentile per-packet one-way delay: 138.408 ms

Loss rate: 0.98%

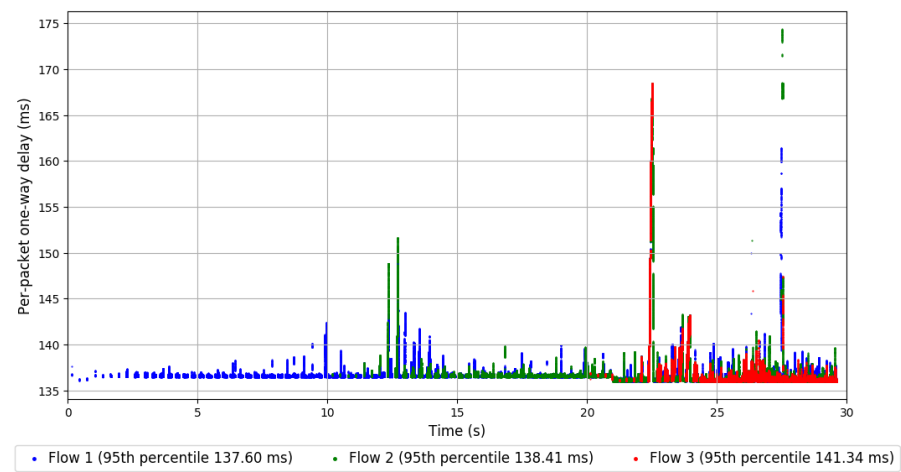
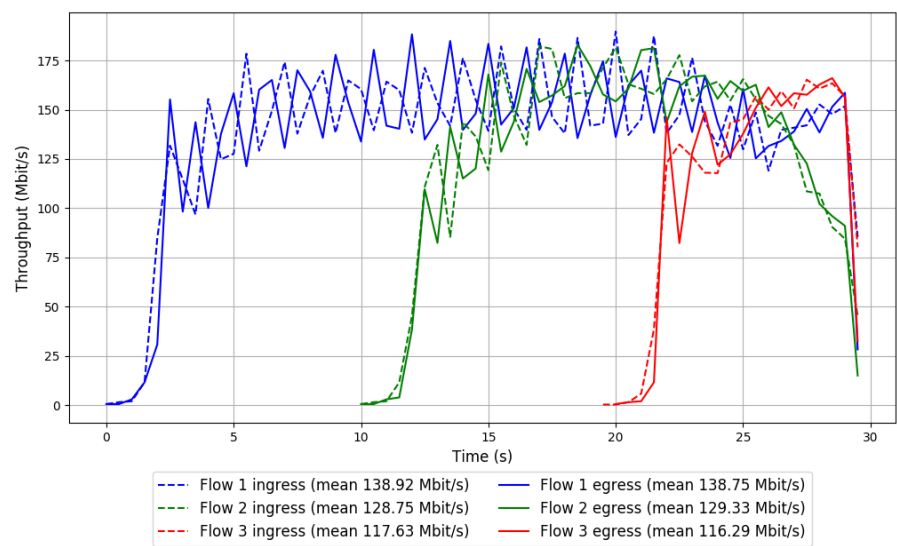
-- Flow 3:

Average throughput: 116.29 Mbit/s

95th percentile per-packet one-way delay: 141.345 ms

Loss rate: 3.91%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-12 13:04:23

End at: 2017-12-12 13:04:53

Below is generated by plot.py at 2017-12-12 16:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.79 Mbit/s

95th percentile per-packet one-way delay: 137.232 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 137.001 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 1.17%

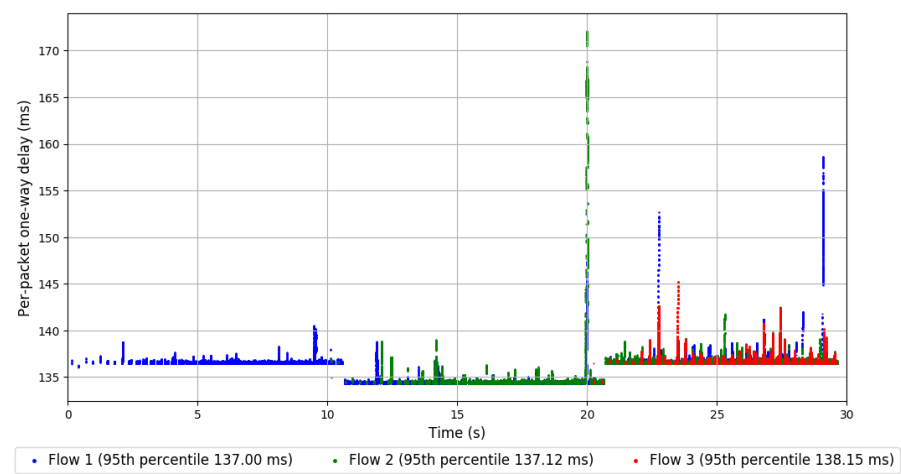
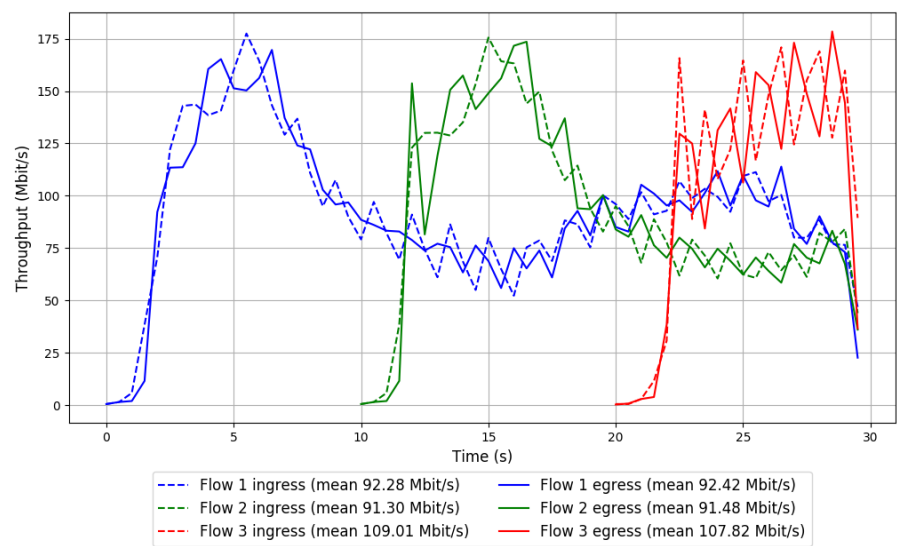
-- Flow 3:

Average throughput: 107.82 Mbit/s

95th percentile per-packet one-way delay: 138.151 ms

Loss rate: 4.27%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-12 13:18:17

End at: 2017-12-12 13:18:47

Below is generated by plot.py at 2017-12-12 16:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.69 Mbit/s

95th percentile per-packet one-way delay: 138.001 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 144.35 Mbit/s

95th percentile per-packet one-way delay: 137.541 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 139.99 Mbit/s

95th percentile per-packet one-way delay: 137.775 ms

Loss rate: 1.52%

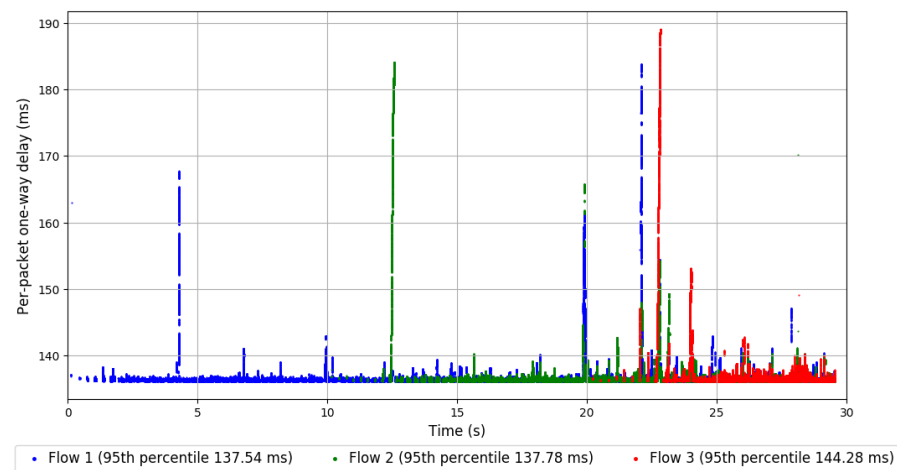
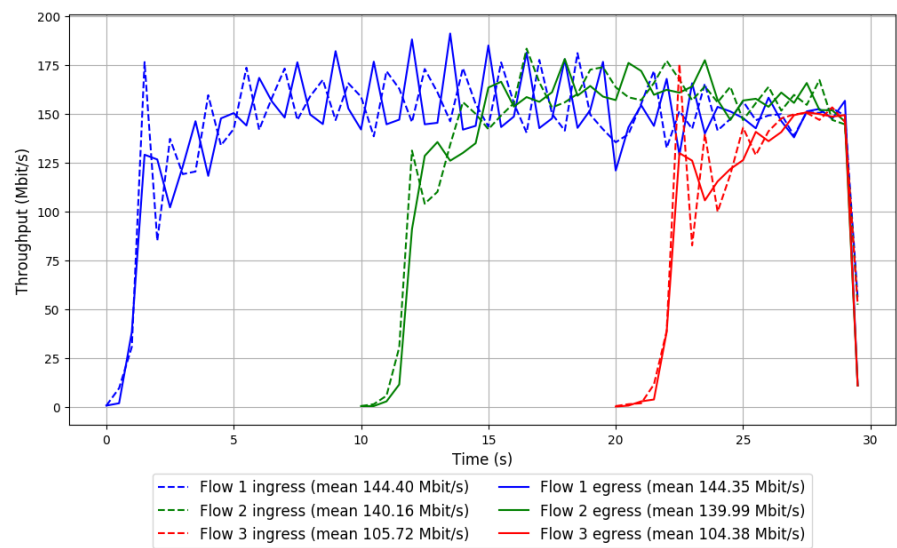
-- Flow 3:

Average throughput: 104.38 Mbit/s

95th percentile per-packet one-way delay: 144.281 ms

Loss rate: 4.06%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-12 13:32:32

End at: 2017-12-12 13:33:02

Below is generated by plot.py at 2017-12-12 16:54:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.80 Mbit/s

95th percentile per-packet one-way delay: 145.171 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 98.41 Mbit/s

95th percentile per-packet one-way delay: 139.025 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 125.19 Mbit/s

95th percentile per-packet one-way delay: 148.054 ms

Loss rate: 1.43%

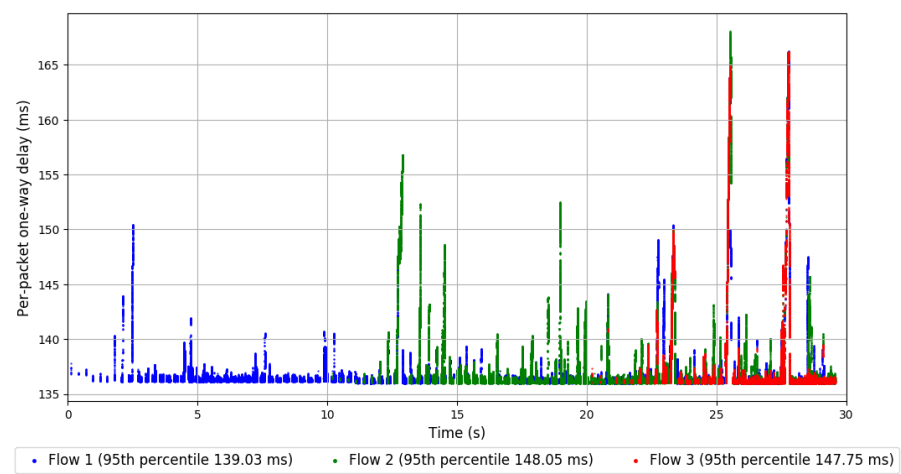
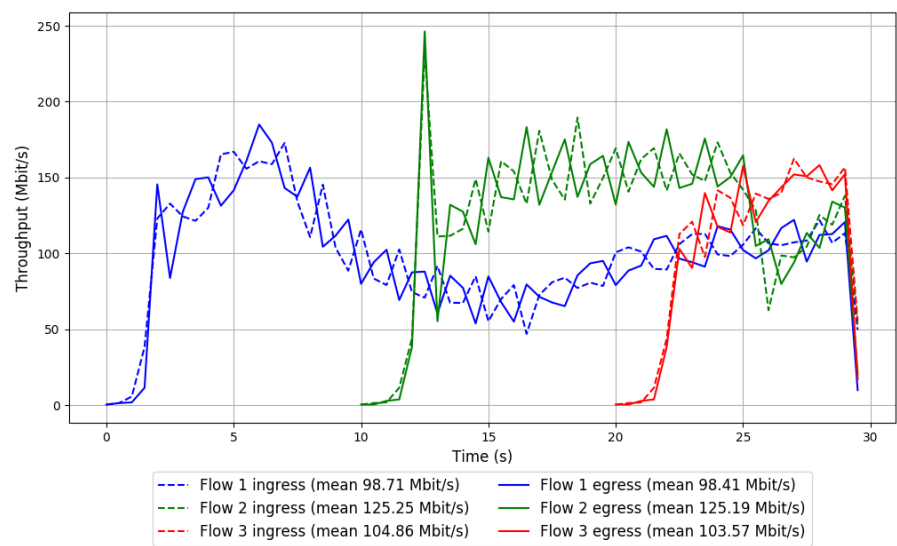
-- Flow 3:

Average throughput: 103.57 Mbit/s

95th percentile per-packet one-way delay: 147.745 ms

Loss rate: 4.03%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-12 13:47:06

End at: 2017-12-12 13:47:36

Below is generated by plot.py at 2017-12-12 16:55:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.24 Mbit/s

95th percentile per-packet one-way delay: 137.624 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 150.34 Mbit/s

95th percentile per-packet one-way delay: 137.352 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 129.48 Mbit/s

95th percentile per-packet one-way delay: 137.569 ms

Loss rate: 1.62%

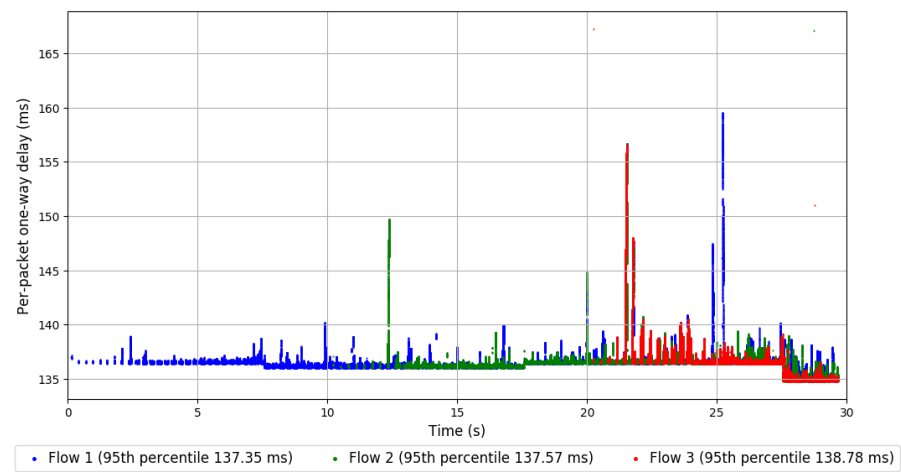
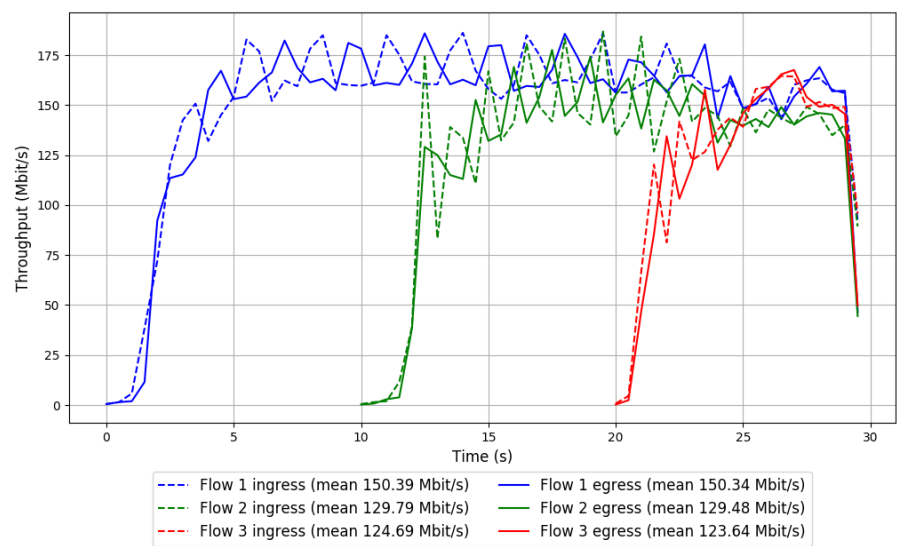
-- Flow 3:

Average throughput: 123.64 Mbit/s

95th percentile per-packet one-way delay: 138.776 ms

Loss rate: 3.63%

Run 10: Report of Indigo — Data Link

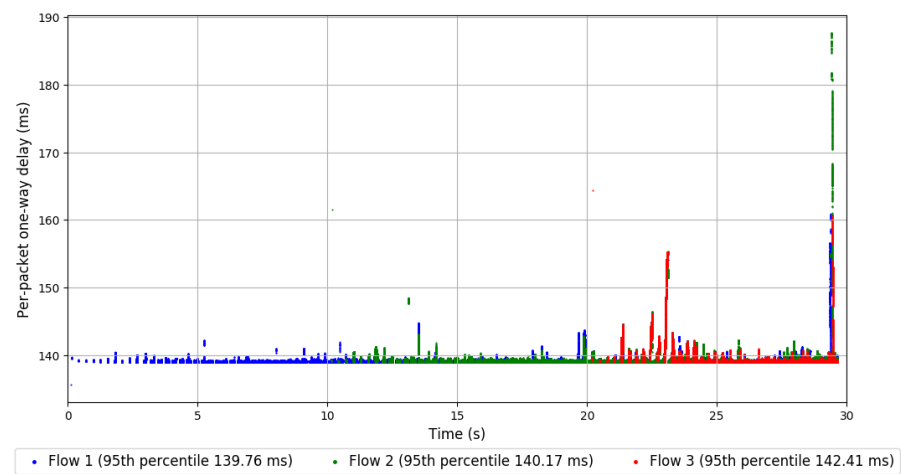
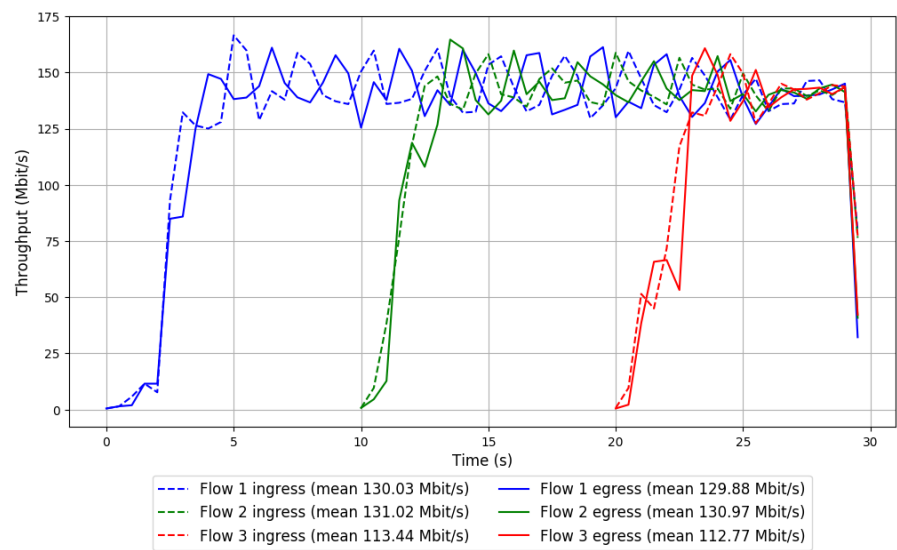


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-12 11:36:11
End at: 2017-12-12 11:36:41

# Below is generated by plot.py at 2017-12-12 16:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.46 Mbit/s
95th percentile per-packet one-way delay: 140.197 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 129.88 Mbit/s
95th percentile per-packet one-way delay: 139.756 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 130.97 Mbit/s
95th percentile per-packet one-way delay: 140.167 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 112.77 Mbit/s
95th percentile per-packet one-way delay: 142.410 ms
Loss rate: 3.43%
```

Run 1: Report of Indigo-calib — Data Link

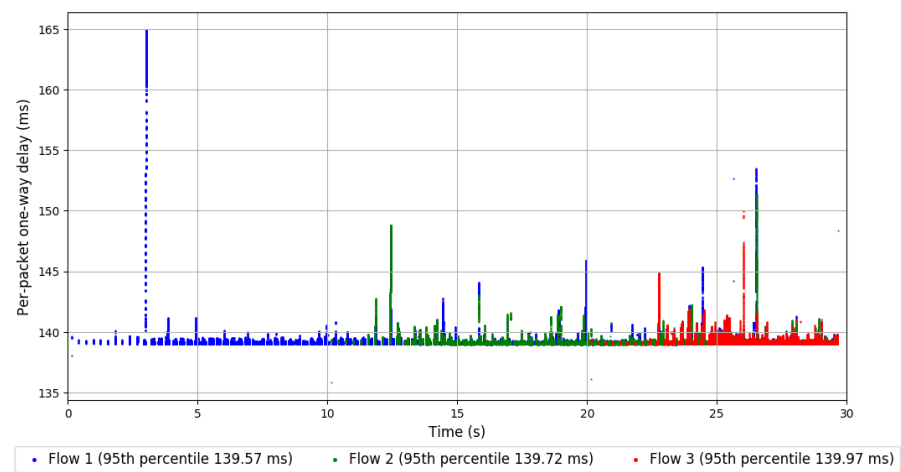
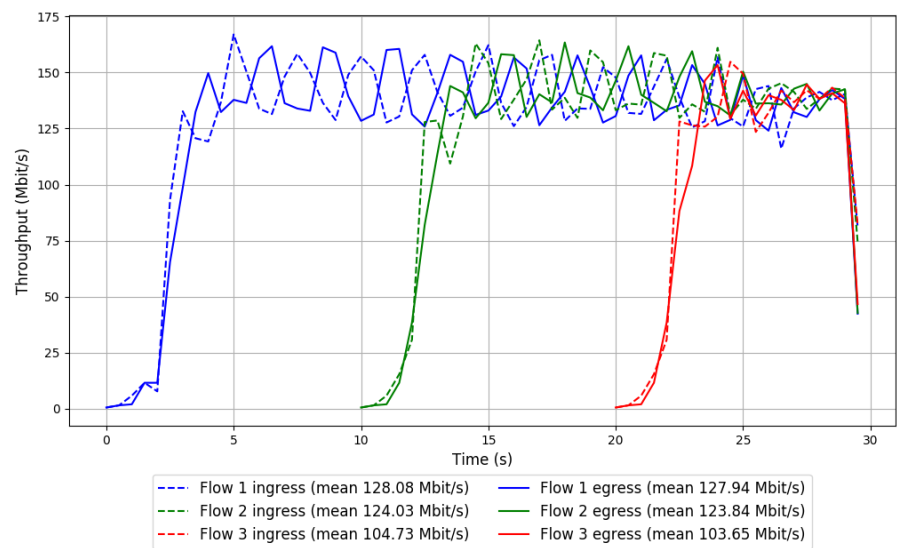


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-12 11:49:50
End at: 2017-12-12 11:50:20

# Below is generated by plot.py at 2017-12-12 16:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.13 Mbit/s
95th percentile per-packet one-way delay: 139.707 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 127.94 Mbit/s
95th percentile per-packet one-way delay: 139.571 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 123.84 Mbit/s
95th percentile per-packet one-way delay: 139.719 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 103.65 Mbit/s
95th percentile per-packet one-way delay: 139.971 ms
Loss rate: 3.79%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-12 12:03:34

End at: 2017-12-12 12:04:04

Below is generated by plot.py at 2017-12-12 16:55:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.77 Mbit/s

95th percentile per-packet one-way delay: 140.049 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 114.08 Mbit/s

95th percentile per-packet one-way delay: 139.669 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 121.42 Mbit/s

95th percentile per-packet one-way delay: 140.214 ms

Loss rate: 1.60%

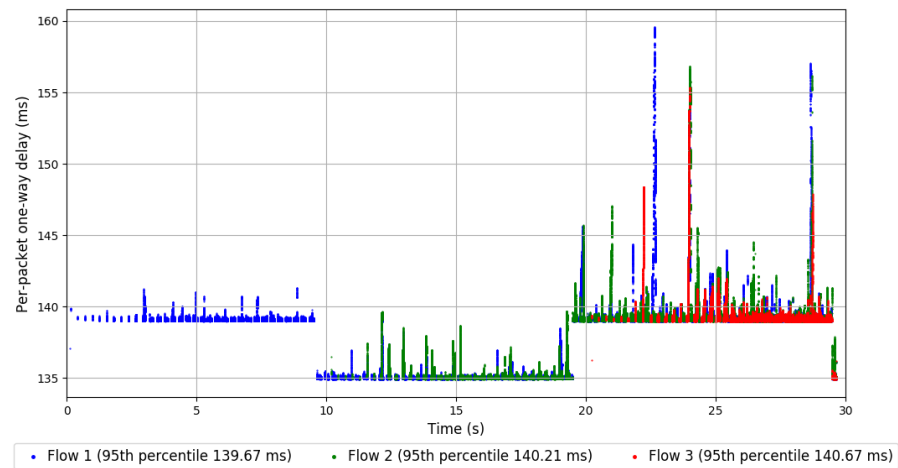
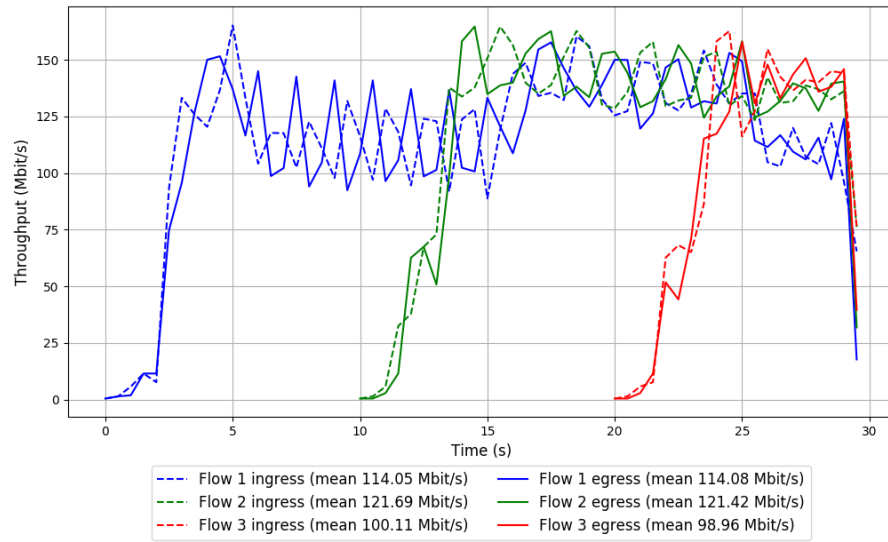
-- Flow 3:

Average throughput: 98.96 Mbit/s

95th percentile per-packet one-way delay: 140.668 ms

Loss rate: 3.94%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-12 12:17:16

End at: 2017-12-12 12:17:46

Below is generated by plot.py at 2017-12-12 16:55:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.57 Mbit/s

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

Loss rate: 1.51%

-- Flow 1:

Average throughput: 130.15 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 123.14 Mbit/s

95th percentile per-packet one-way delay: 137.693 ms

Loss rate: 1.46%

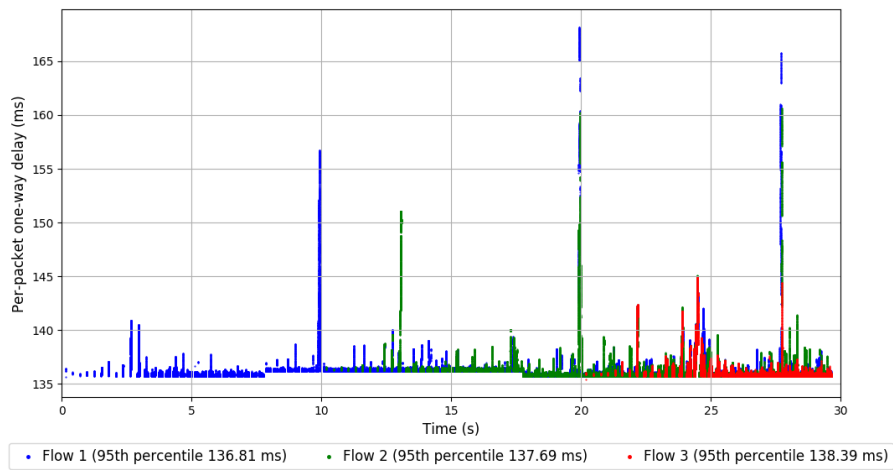
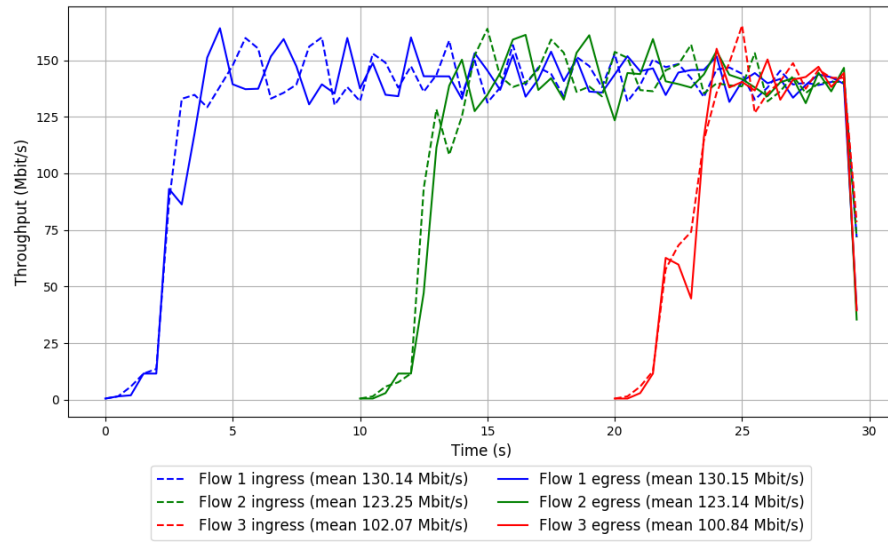
-- Flow 3:

Average throughput: 100.84 Mbit/s

95th percentile per-packet one-way delay: 138.388 ms

Loss rate: 3.93%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-12 12:31:26

End at: 2017-12-12 12:31:56

Below is generated by plot.py at 2017-12-12 16:55:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.56 Mbit/s

95th percentile per-packet one-way delay: 137.535 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 66.78 Mbit/s

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

Loss rate: 0.97%

-- Flow 2:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 137.702 ms

Loss rate: 1.41%

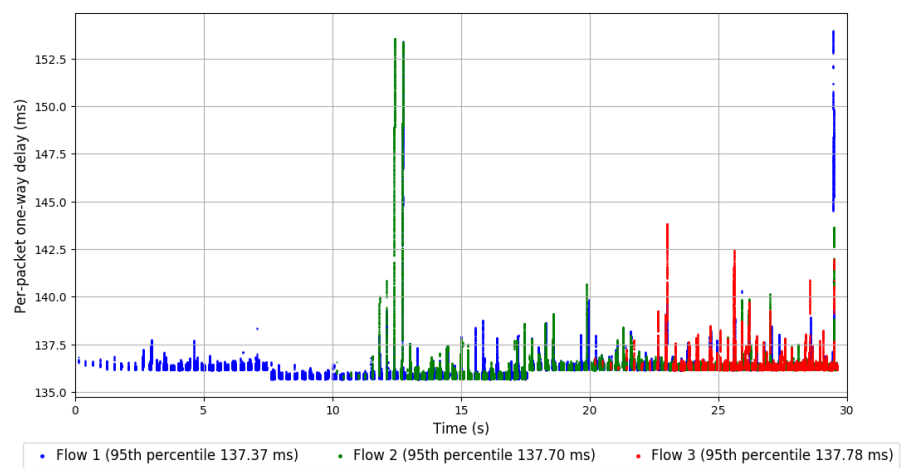
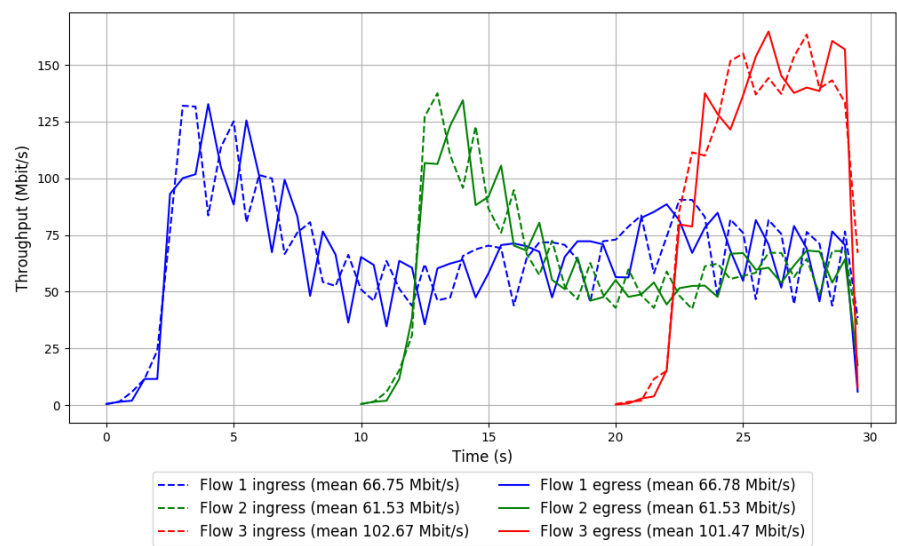
-- Flow 3:

Average throughput: 101.47 Mbit/s

95th percentile per-packet one-way delay: 137.783 ms

Loss rate: 3.96%

Run 5: Report of Indigo-calib — Data Link

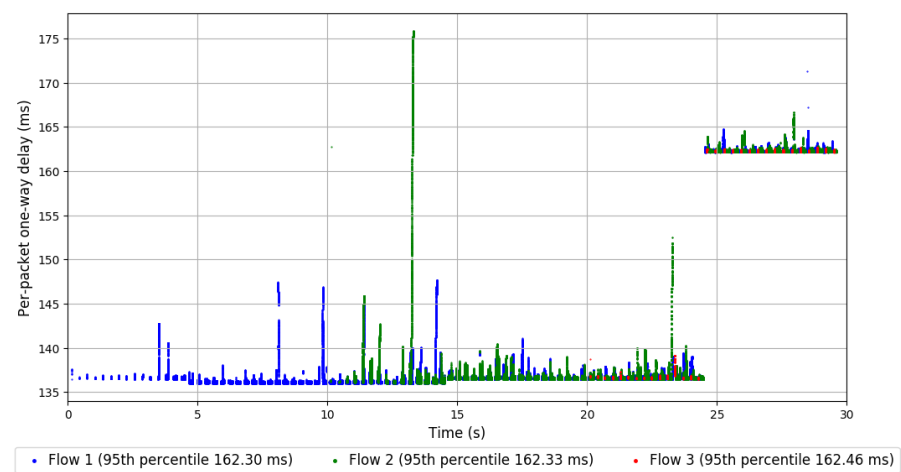
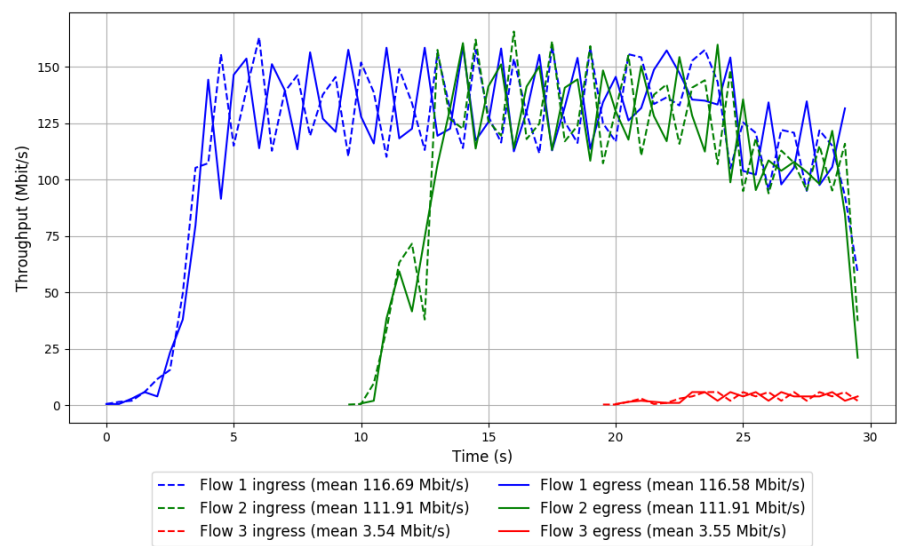


```
Run 6: Statistics of Indigo-calib

Start at: 2017-12-12 12:45:39
End at: 2017-12-12 12:46:09

# Below is generated by plot.py at 2017-12-12 16:56:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.25 Mbit/s
95th percentile per-packet one-way delay: 162.312 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 116.58 Mbit/s
95th percentile per-packet one-way delay: 162.297 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 111.91 Mbit/s
95th percentile per-packet one-way delay: 162.330 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 162.463 ms
Loss rate: 2.80%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-12 12:59:57

End at: 2017-12-12 13:00:27

Below is generated by plot.py at 2017-12-12 16:57:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.17 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 129.18 Mbit/s

95th percentile per-packet one-way delay: 137.400 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 114.02 Mbit/s

95th percentile per-packet one-way delay: 137.960 ms

Loss rate: 1.75%

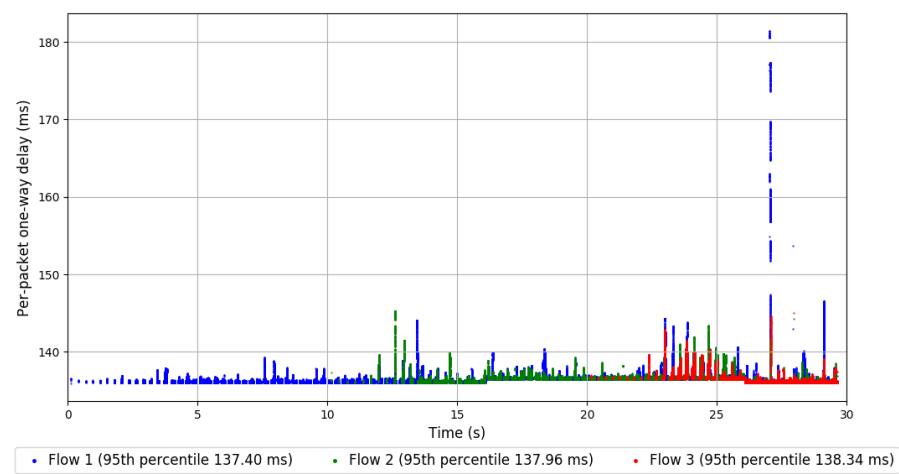
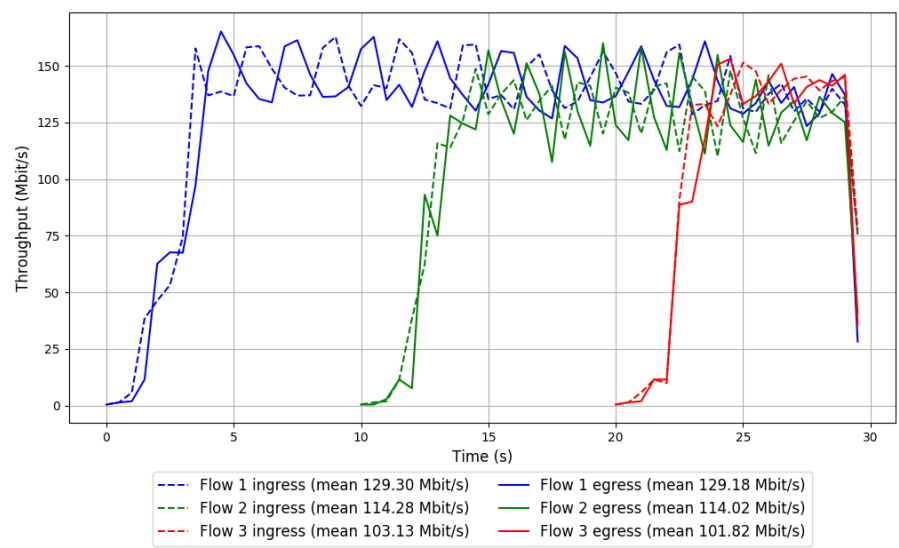
-- Flow 3:

Average throughput: 101.82 Mbit/s

95th percentile per-packet one-way delay: 138.344 ms

Loss rate: 4.04%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-12 13:13:52

End at: 2017-12-12 13:14:22

Below is generated by plot.py at 2017-12-12 16:57:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.98 Mbit/s

95th percentile per-packet one-way delay: 137.225 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 116.49 Mbit/s

95th percentile per-packet one-way delay: 137.035 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 113.19 Mbit/s

95th percentile per-packet one-way delay: 137.200 ms

Loss rate: 1.59%

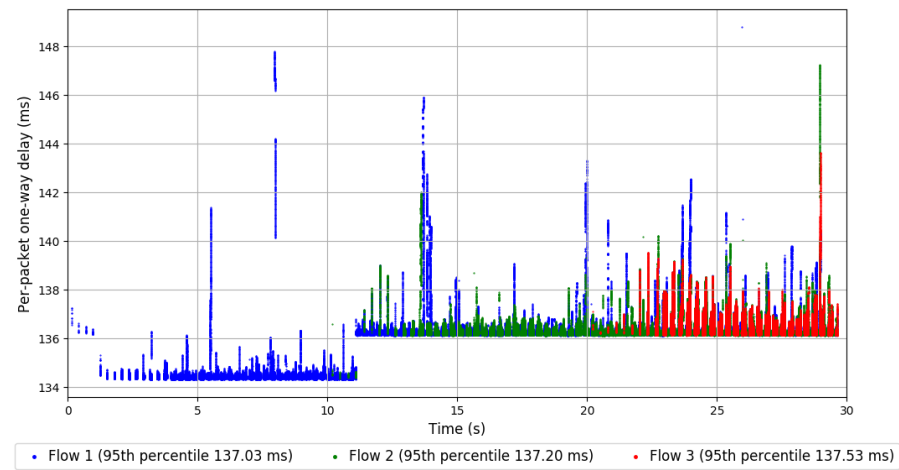
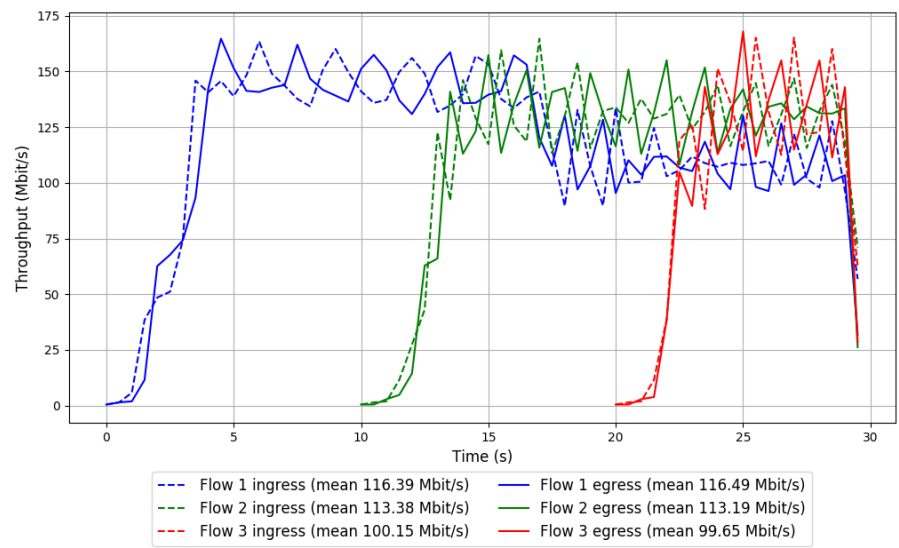
-- Flow 3:

Average throughput: 99.65 Mbit/s

95th percentile per-packet one-way delay: 137.528 ms

Loss rate: 3.29%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-12 13:28:07

End at: 2017-12-12 13:28:37

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.33 Mbit/s

95th percentile per-packet one-way delay: 137.126 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 130.12 Mbit/s

95th percentile per-packet one-way delay: 136.730 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 125.05 Mbit/s

95th percentile per-packet one-way delay: 137.954 ms

Loss rate: 1.56%

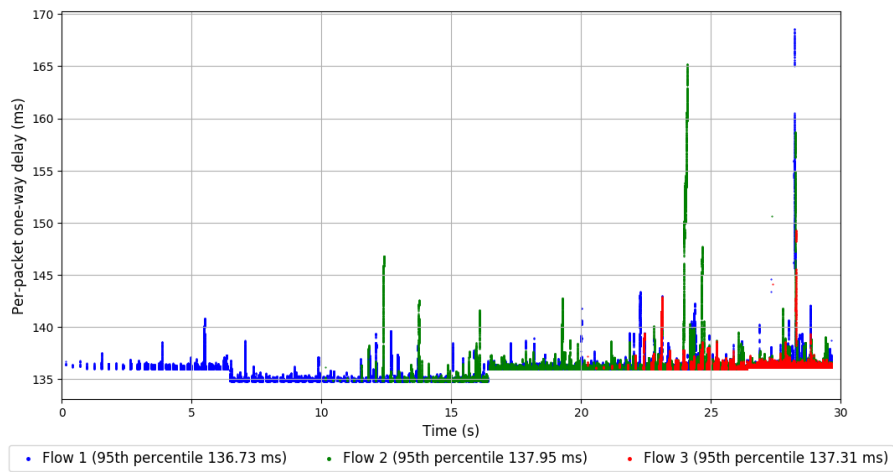
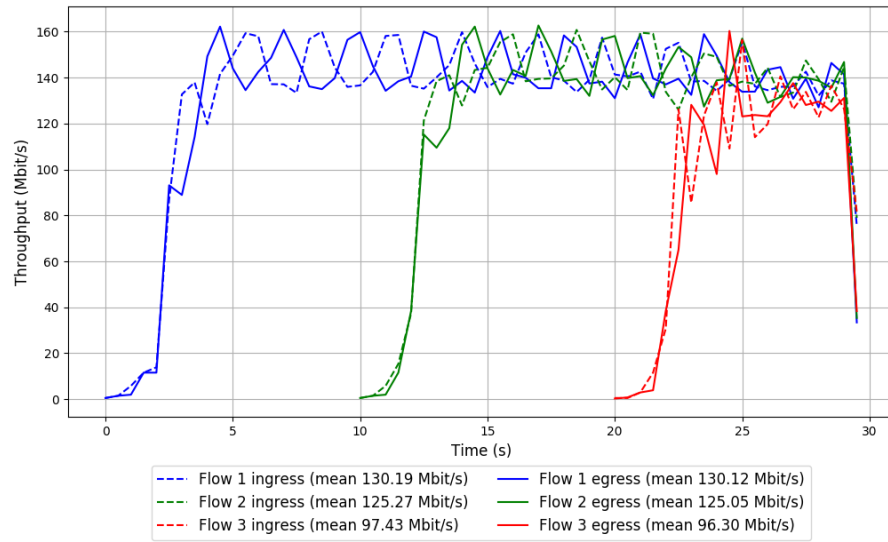
-- Flow 3:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 137.308 ms

Loss rate: 4.23%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-12 13:42:42

End at: 2017-12-12 13:43:12

Below is generated by plot.py at 2017-12-12 16:57:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.73 Mbit/s

95th percentile per-packet one-way delay: 137.344 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 125.95 Mbit/s

95th percentile per-packet one-way delay: 137.323 ms

Loss rate: 1.26%

-- Flow 3:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 140.577 ms

Loss rate: 4.14%

Run 10: Report of Indigo-calib — Data Link

