

Pantheon Report

Generated at 2018-01-10 10:20:12 (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.

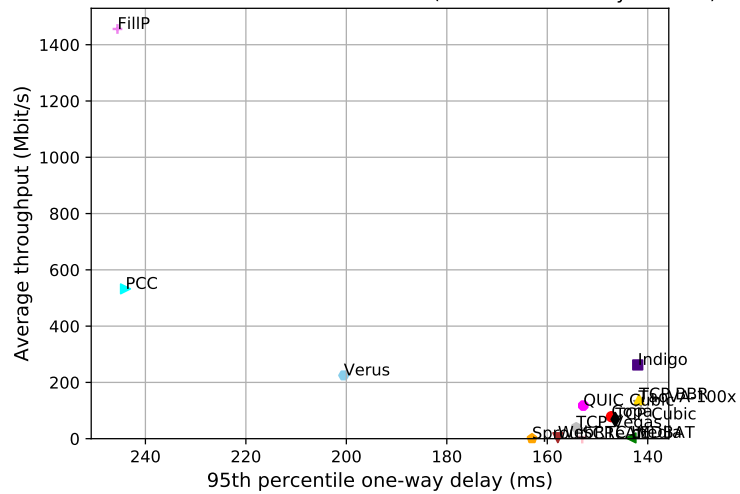
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

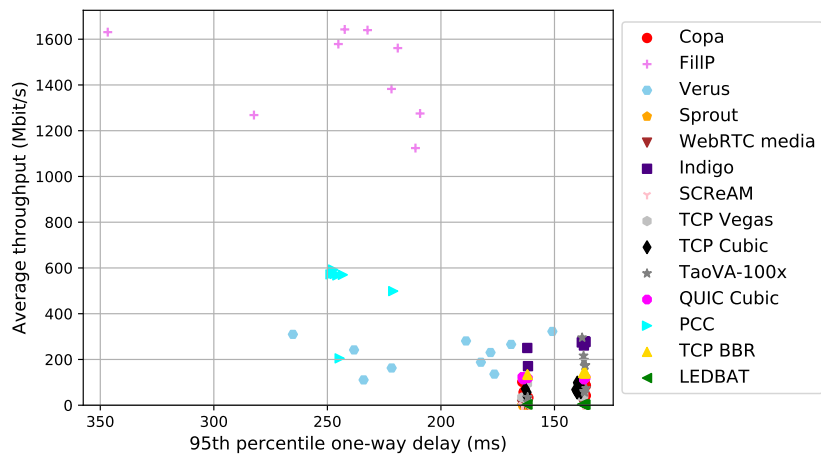
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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	72.81	70.01	62.44	141.73	141.71	141.64	0.96	1.43	3.67
TCP Cubic	10	35.42	35.23	30.61	145.99	141.63	143.45	1.31	2.21	4.69
LEDBAT	8	1.63	1.50	0.75	143.35	140.30	143.09	2.99	2.56	6.91
PCC	10	433.56	112.18	76.39	236.00	237.21	244.52	3.16	3.42	5.31
QUIC Cubic	10	61.11	59.81	52.68	144.43	141.90	150.18	1.07	1.05	3.72
SCReAM	10	0.21	0.22	0.21	150.27	139.56	147.43	0.86	1.44	2.77
WebRTC media	10	1.99	1.09	0.38	147.07	149.93	146.91	1.06	1.97	5.78
Sprout	8	0.32	0.34	0.38	159.54	157.06	149.84	0.99	1.32	2.12
TaoVA-100x	10	62.54	61.34	105.27	147.19	149.49	146.30	0.84	1.53	3.09
TCP Vegas	6	18.76	19.98	23.29	154.02	154.62	151.07	2.19	1.91	3.23
Verus	10	147.33	95.27	47.32	190.83	219.48	168.73	1.84	2.90	2.11
Copa	10	53.74	28.00	24.12	144.59	155.27	146.39	0.75	0.68	10.11
FillP	9	766.18	668.19	761.15	225.08	248.05	236.31	3.45	5.89	9.38
Indigo	10	141.19	128.91	111.70	141.81	142.17	143.01	0.85	1.37	3.70

Run 1: Statistics of TCP BBR

Start at: 2018-01-10 03:58:54

End at: 2018-01-10 03:59:24

Below is generated by plot.py at 2018-01-10 09:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.70 Mbit/s

95th percentile per-packet one-way delay: 137.114 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 73.21 Mbit/s

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

Loss rate: 0.97%

-- Flow 2:

Average throughput: 70.84 Mbit/s

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

Loss rate: 1.51%

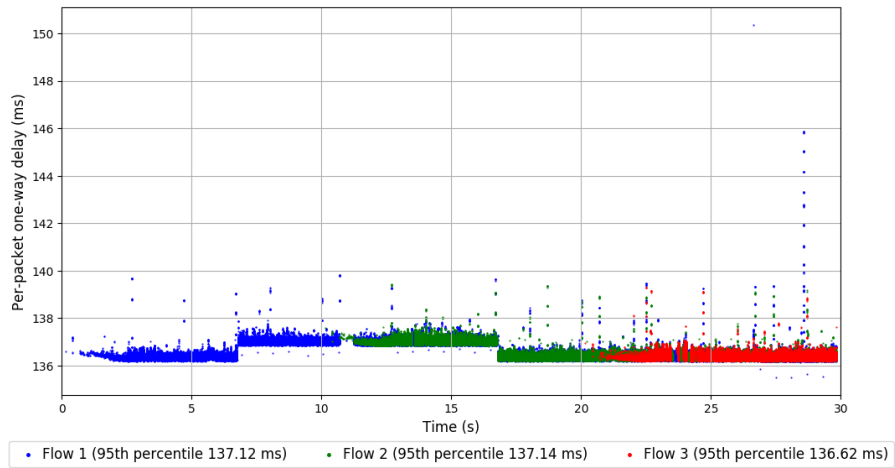
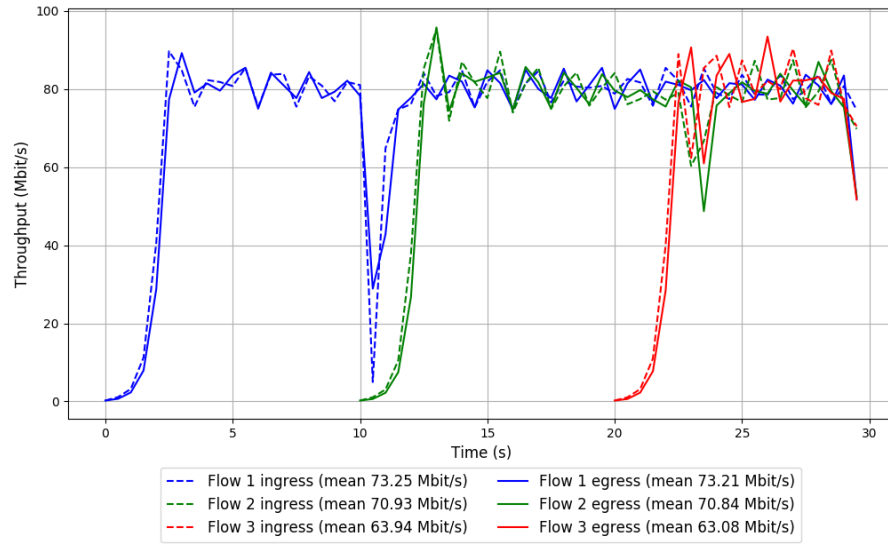
-- Flow 3:

Average throughput: 63.08 Mbit/s

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

Loss rate: 3.51%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-10 04:14:40

End at: 2018-01-10 04:15:10

Below is generated by plot.py at 2018-01-10 09:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.54 Mbit/s

95th percentile per-packet one-way delay: 161.768 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 161.711 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 66.70 Mbit/s

95th percentile per-packet one-way delay: 161.761 ms

Loss rate: 1.74%

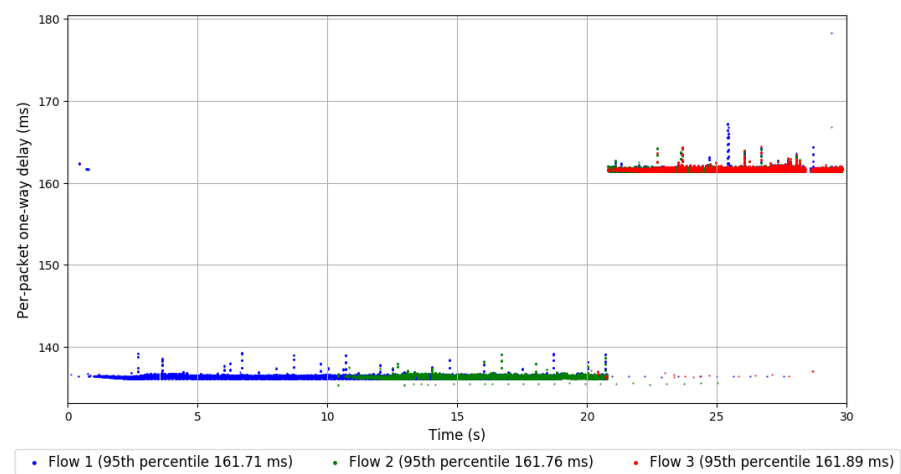
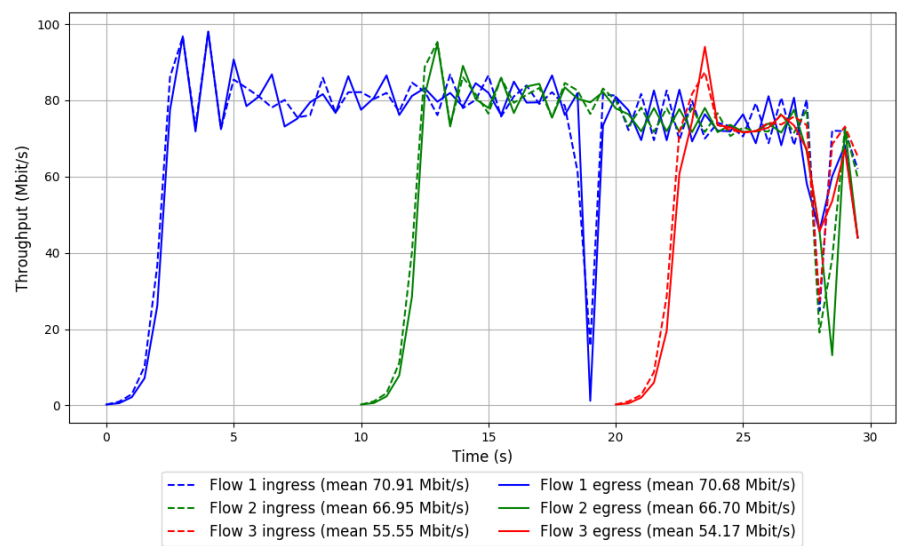
-- Flow 3:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 161.887 ms

Loss rate: 5.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-10 04:29:15

End at: 2018-01-10 04:29:45

Below is generated by plot.py at 2018-01-10 09:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.06 Mbit/s

95th percentile per-packet one-way delay: 136.576 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 136.570 ms

Loss rate: 1.53%

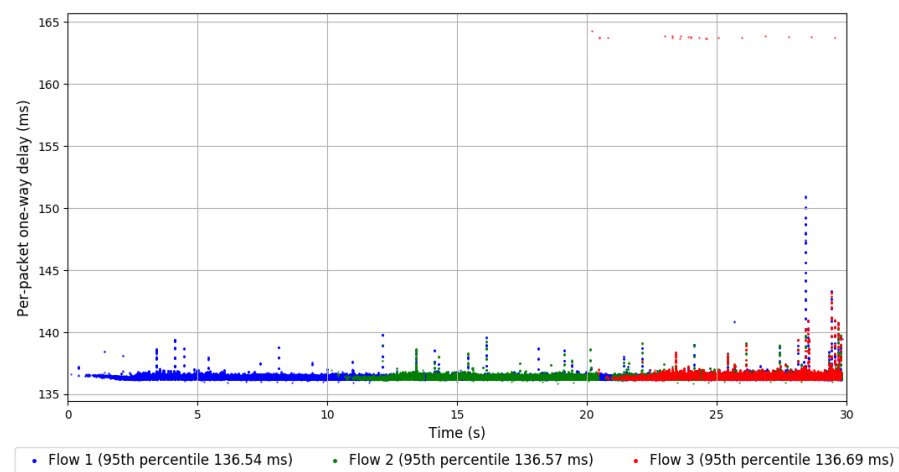
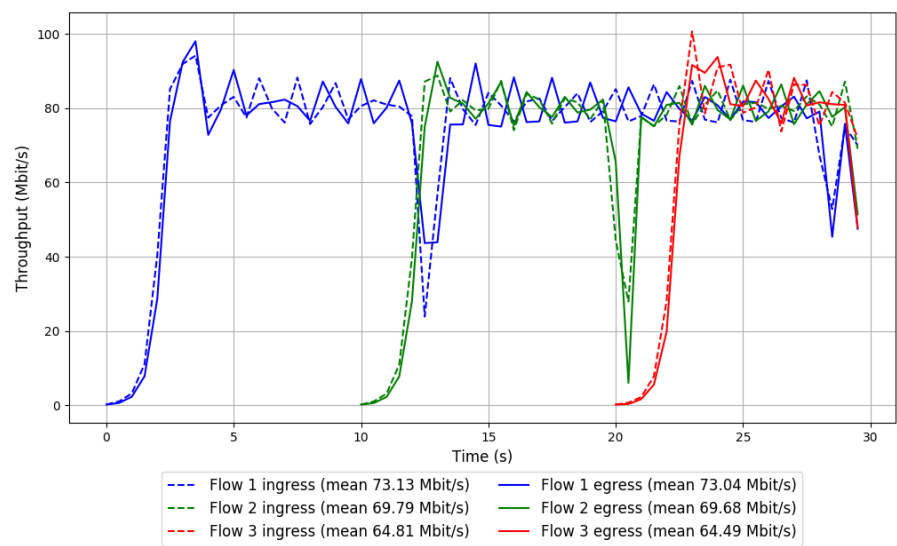
-- Flow 3:

Average throughput: 64.49 Mbit/s

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

Loss rate: 3.74%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-10 04:45:07

End at: 2018-01-10 04:45:37

Below is generated by plot.py at 2018-01-10 09:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.68 Mbit/s

95th percentile per-packet one-way delay: 161.942 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 161.910 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 161.967 ms

Loss rate: 1.80%

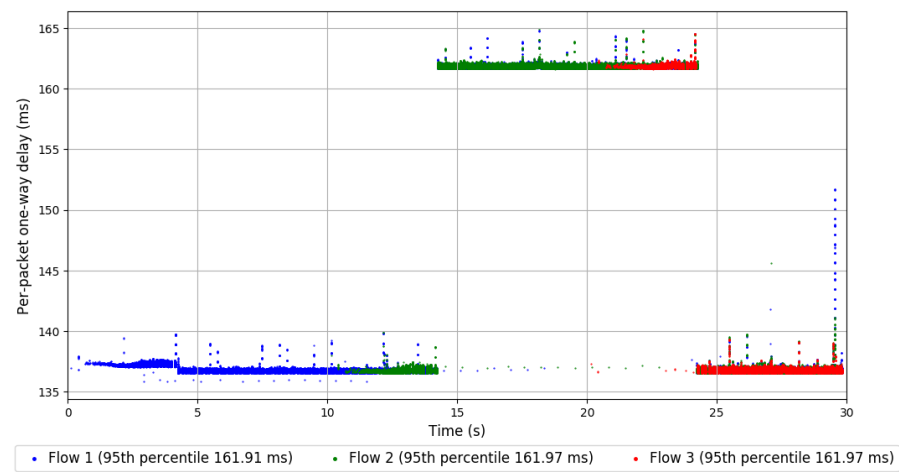
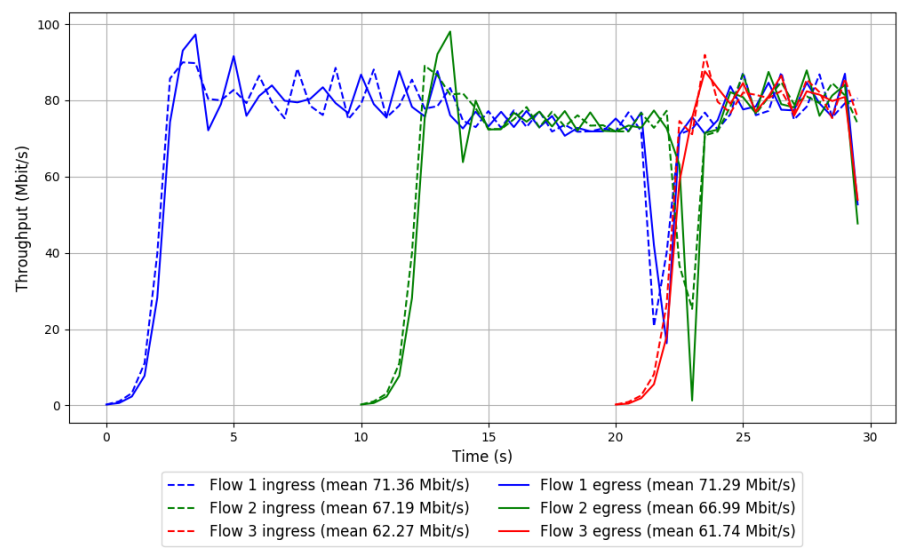
-- Flow 3:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 161.969 ms

Loss rate: 3.70%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-10 05:01:07

End at: 2018-01-10 05:01:37

Below is generated by plot.py at 2018-01-10 09:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.06 Mbit/s

95th percentile per-packet one-way delay: 137.369 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 73.31 Mbit/s

95th percentile per-packet one-way delay: 137.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.05 Mbit/s

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

Loss rate: 1.48%

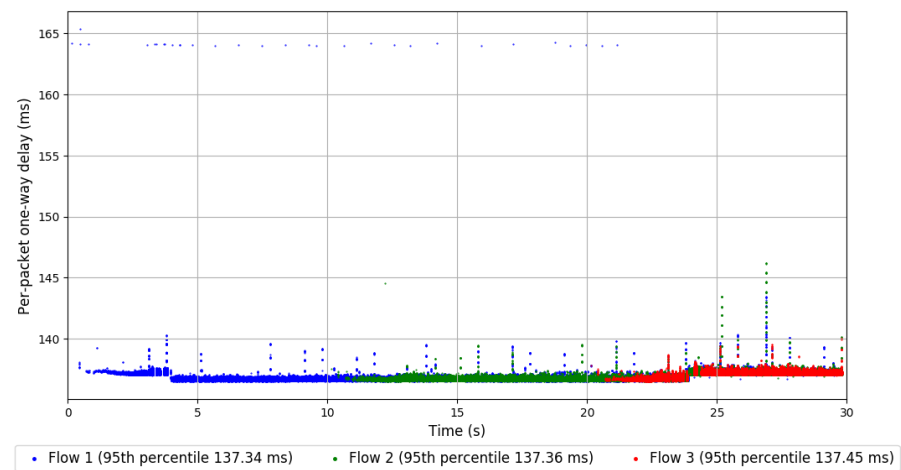
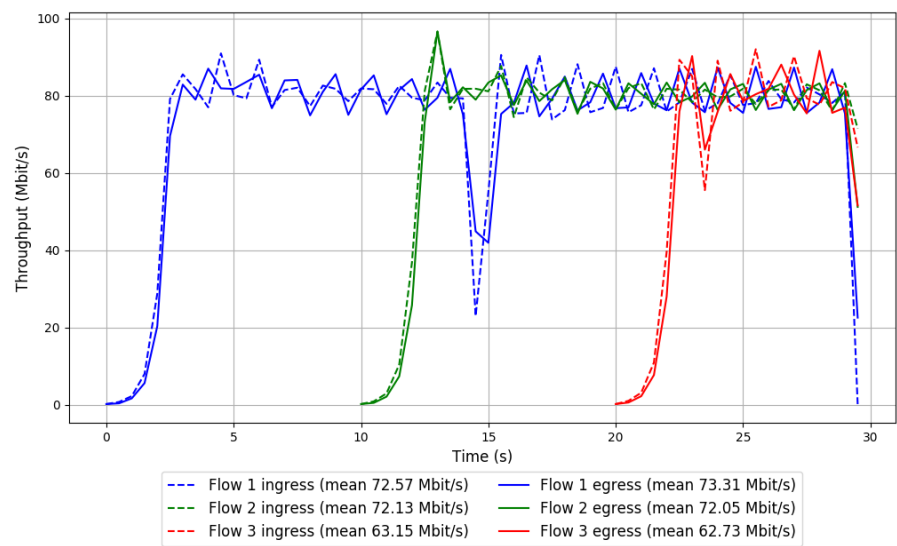
-- Flow 3:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 137.451 ms

Loss rate: 3.42%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-10 05:17:32

End at: 2018-01-10 05:18:02

Below is generated by plot.py at 2018-01-10 09:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.04 Mbit/s

95th percentile per-packet one-way delay: 136.712 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 136.760 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 136.517 ms

Loss rate: 1.66%

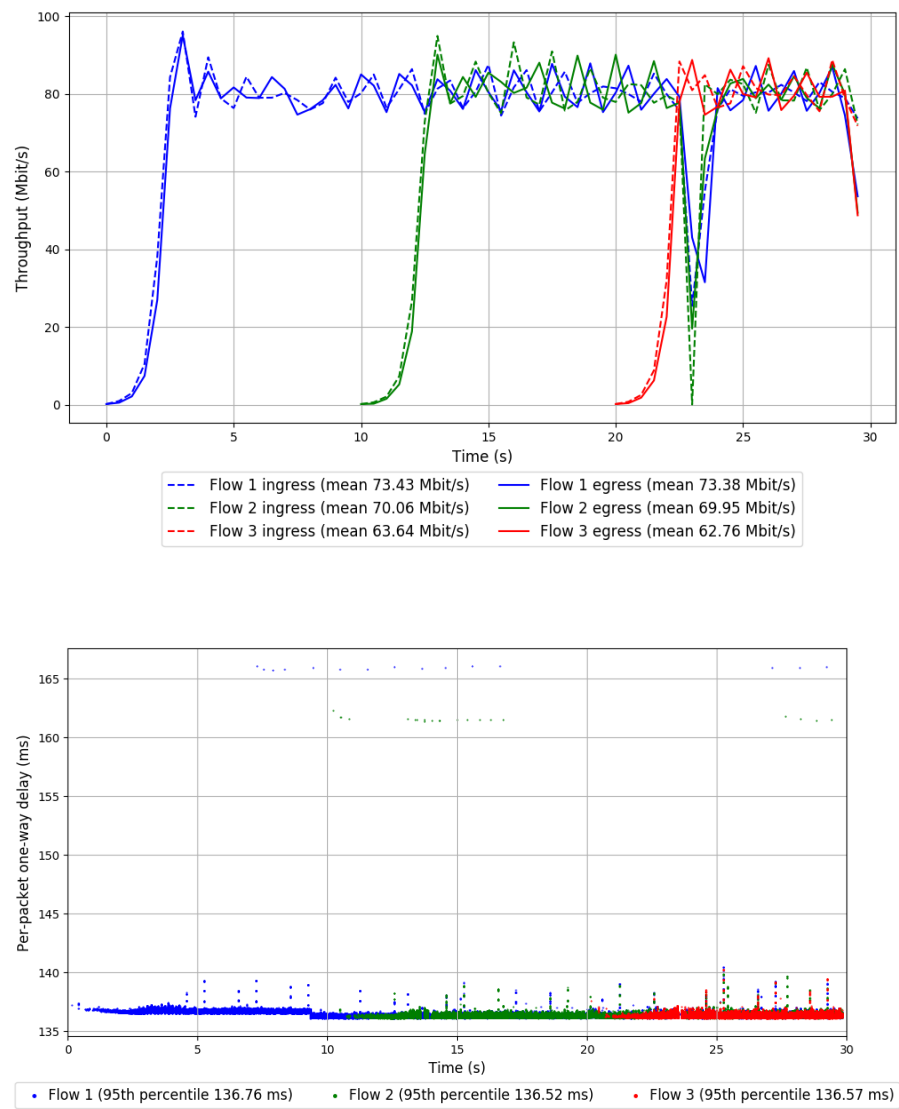
-- Flow 3:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 3.73%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-10 05:33:36

End at: 2018-01-10 05:34:06

Below is generated by plot.py at 2018-01-10 09:17:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.83 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.778 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 71.40 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 0.00%

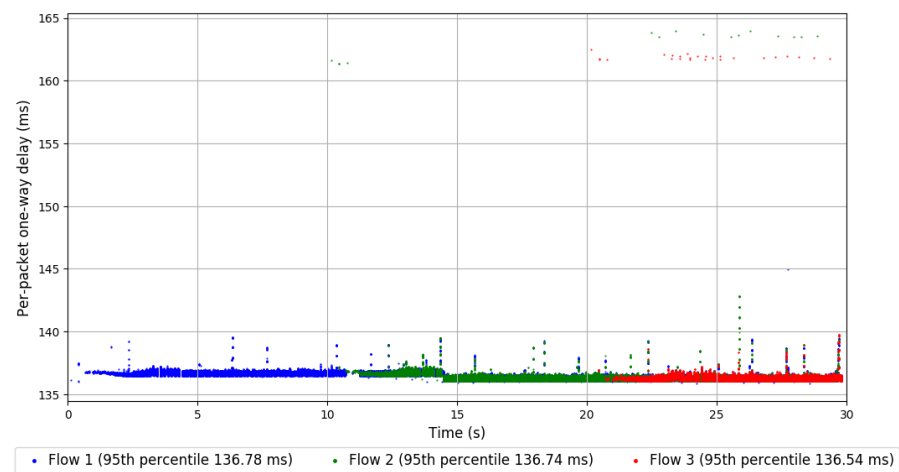
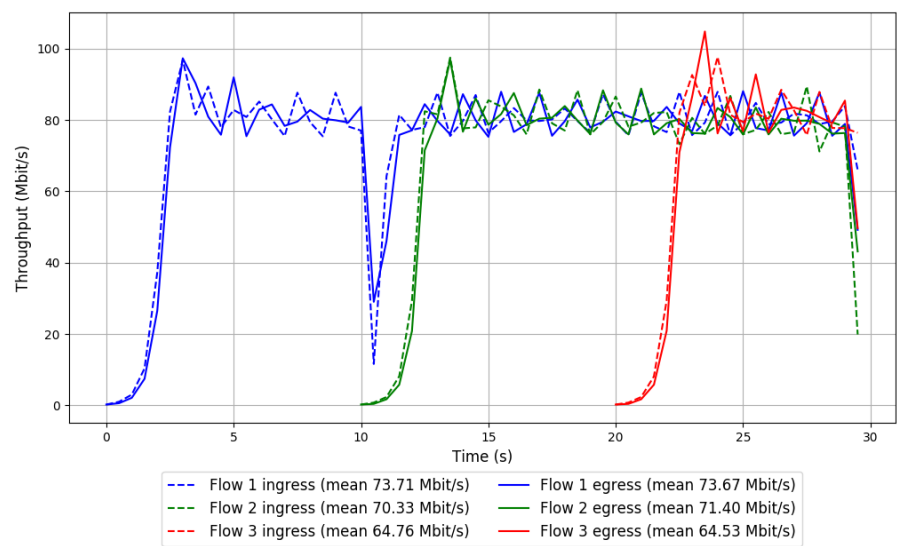
-- Flow 3:

Average throughput: 64.53 Mbit/s

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

Loss rate: 3.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-10 05:49:45

End at: 2018-01-10 05:50:15

Below is generated by plot.py at 2018-01-10 09:17:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.24 Mbit/s

95th percentile per-packet one-way delay: 136.321 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 75.20 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 136.287 ms

Loss rate: 1.54%

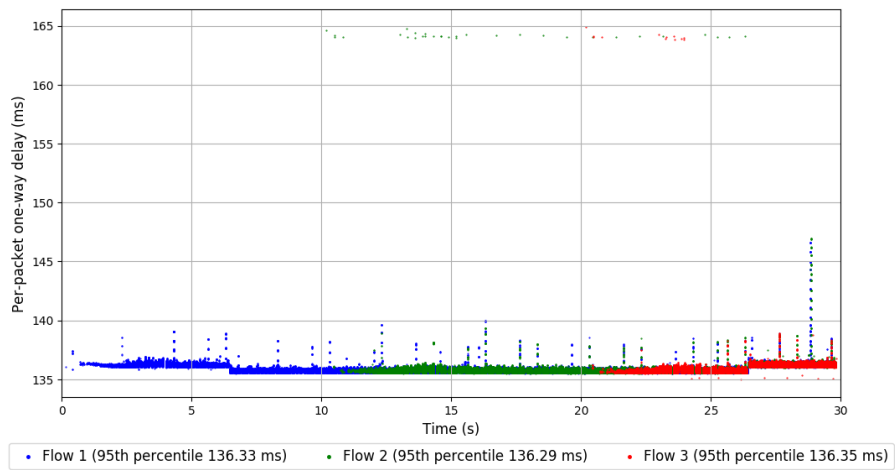
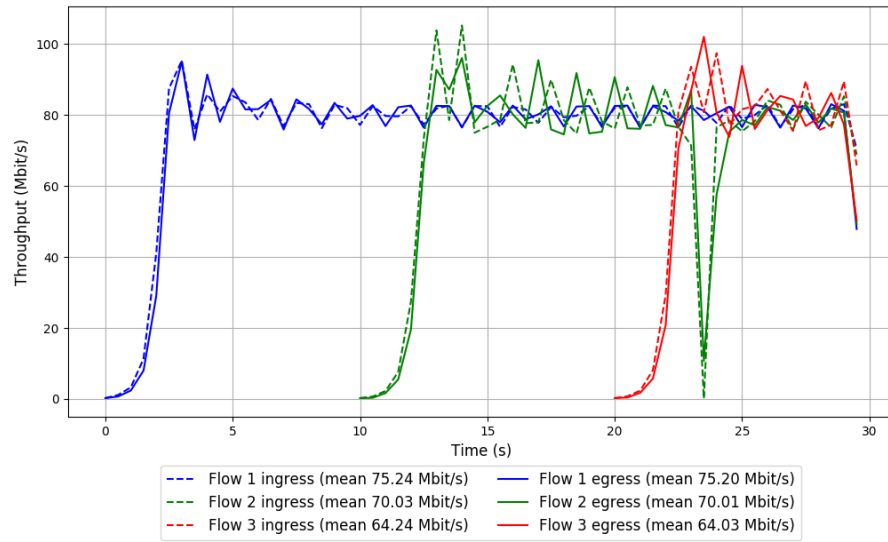
-- Flow 3:

Average throughput: 64.03 Mbit/s

95th percentile per-packet one-way delay: 136.353 ms

Loss rate: 3.35%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-10 06:05:36

End at: 2018-01-10 06:06:06

Below is generated by plot.py at 2018-01-10 09:19:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.64 Mbit/s

95th percentile per-packet one-way delay: 136.310 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 71.97 Mbit/s

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

Loss rate: 0.99%

-- Flow 2:

Average throughput: 72.24 Mbit/s

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

Loss rate: 1.48%

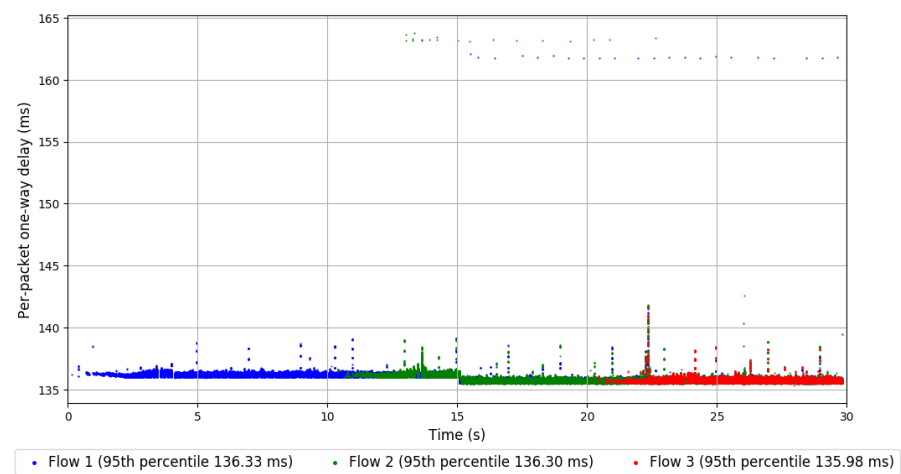
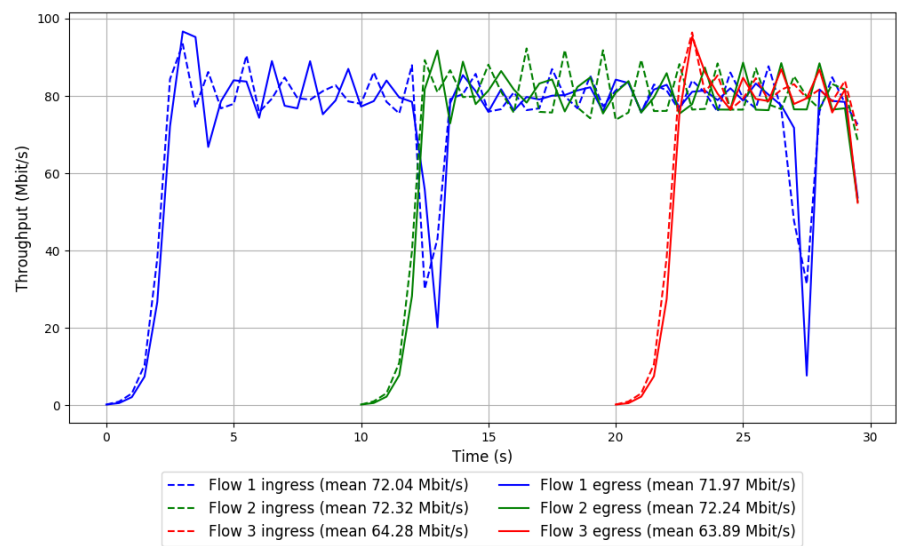
-- Flow 3:

Average throughput: 63.89 Mbit/s

95th percentile per-packet one-way delay: 135.979 ms

Loss rate: 3.33%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-10 06:21:26

End at: 2018-01-10 06:21:56

Below is generated by plot.py at 2018-01-10 09:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.33 Mbit/s

95th percentile per-packet one-way delay: 136.445 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 136.449 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 1.56%

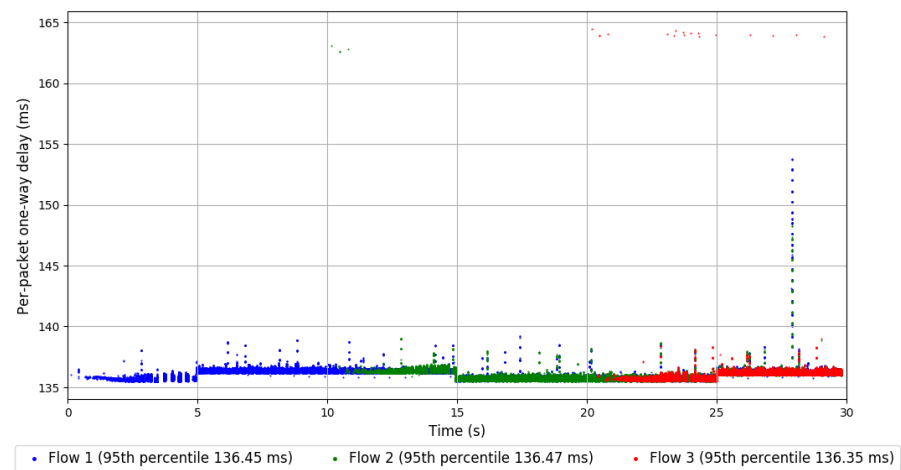
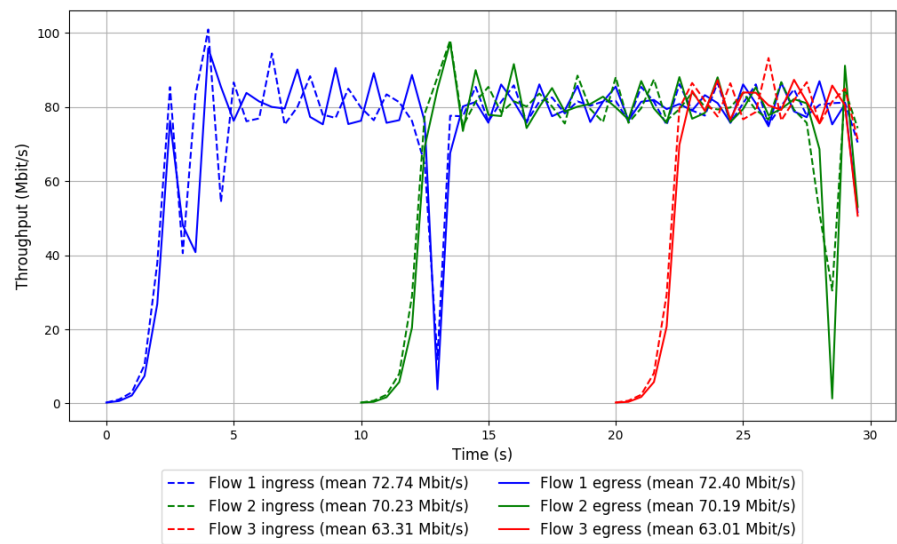
-- Flow 3:

Average throughput: 63.01 Mbit/s

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

Loss rate: 3.54%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-10 03:54:55

End at: 2018-01-10 03:55:25

Below is generated by plot.py at 2018-01-10 09:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 140.332 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 138.487 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 141.580 ms

Loss rate: 1.64%

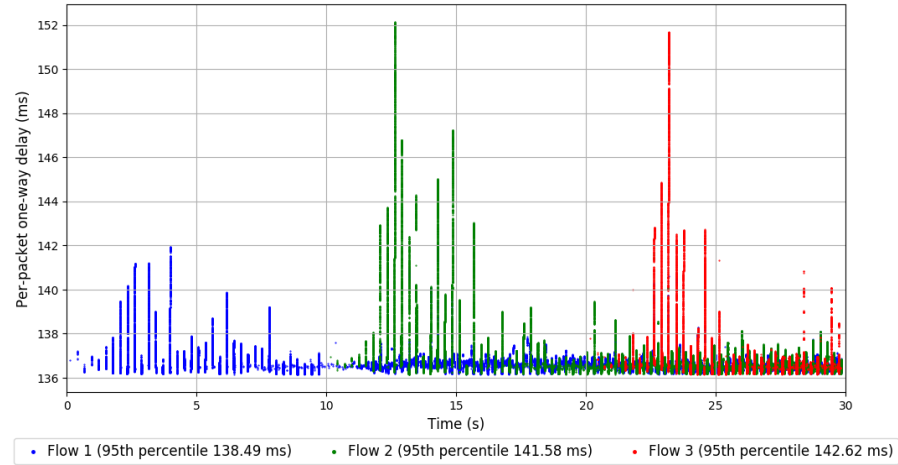
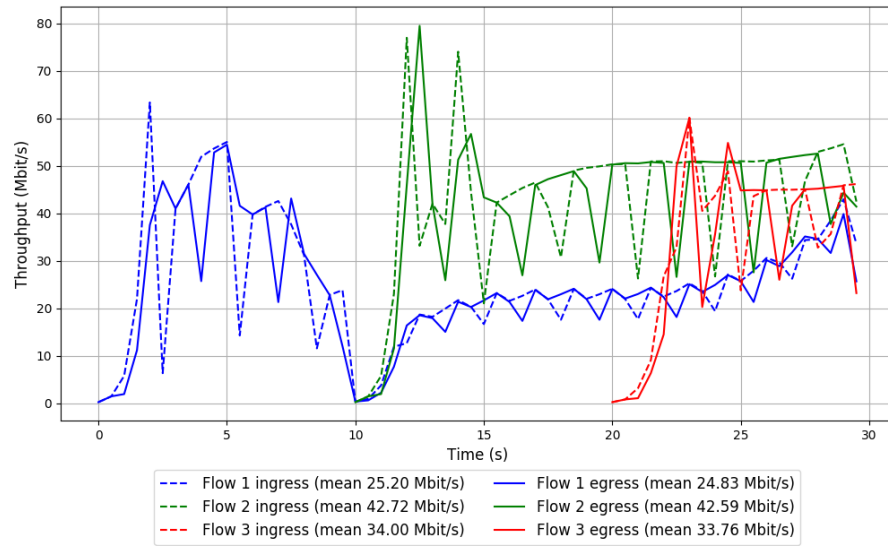
-- Flow 3:

Average throughput: 33.76 Mbit/s

95th percentile per-packet one-way delay: 142.625 ms

Loss rate: 3.45%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-10 04:10:55

End at: 2018-01-10 04:11:25

Below is generated by plot.py at 2018-01-10 09:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 162.033 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 162.203 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 18.00 Mbit/s

95th percentile per-packet one-way delay: 138.930 ms

Loss rate: 3.40%

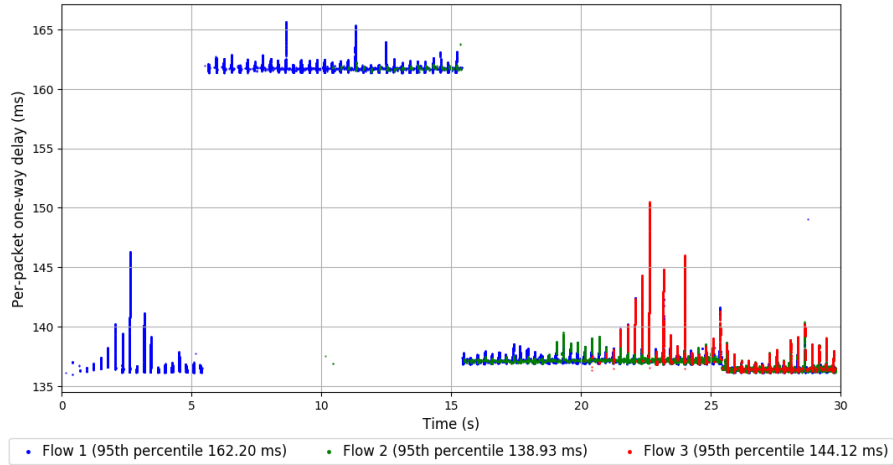
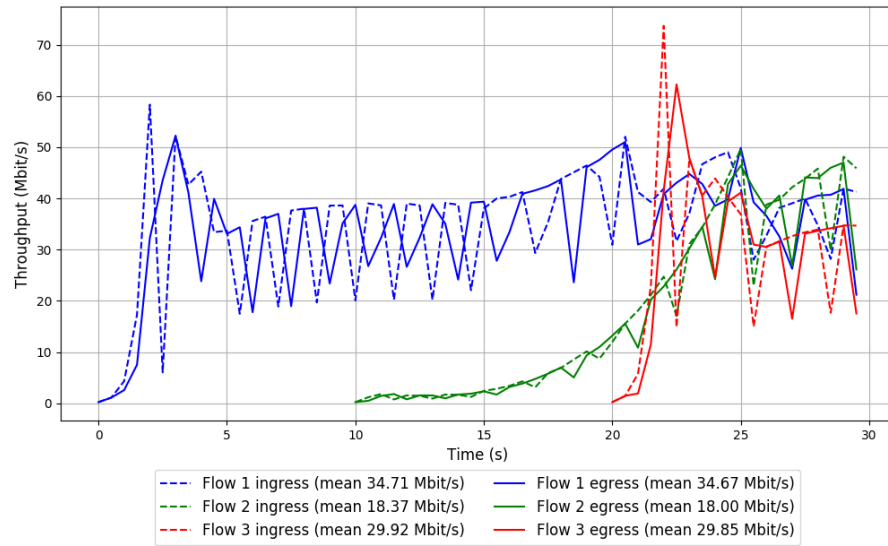
-- Flow 3:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 144.121 ms

Loss rate: 2.96%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-10 04:25:07

End at: 2018-01-10 04:25:37

Below is generated by plot.py at 2018-01-10 09:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.65 Mbit/s

95th percentile per-packet one-way delay: 162.864 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 162.525 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 163.424 ms

Loss rate: 4.10%

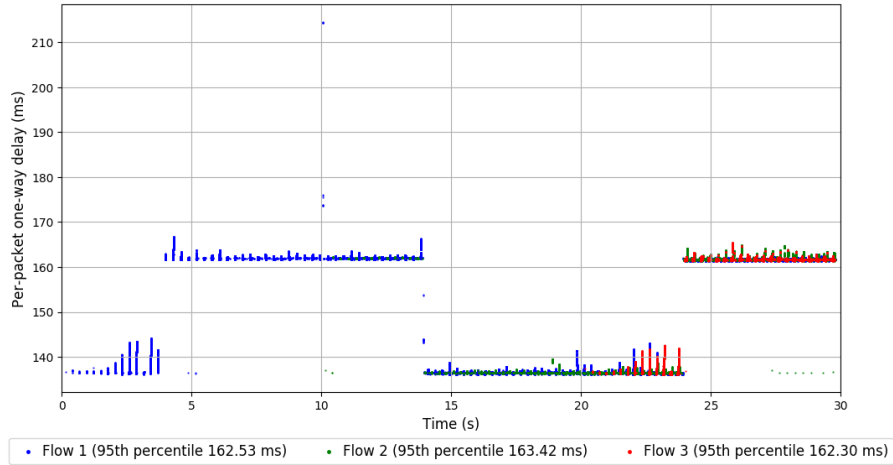
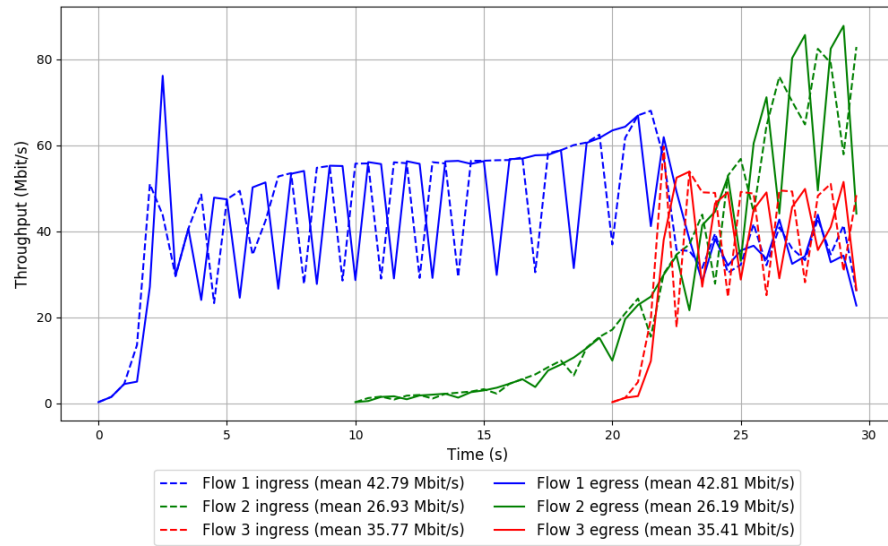
-- Flow 3:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 162.302 ms

Loss rate: 3.76%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-10 04:41:01

End at: 2018-01-10 04:41:31

Below is generated by plot.py at 2018-01-10 09:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 140.041 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 17.08 Mbit/s

95th percentile per-packet one-way delay: 138.177 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 139.278 ms

Loss rate: 1.77%

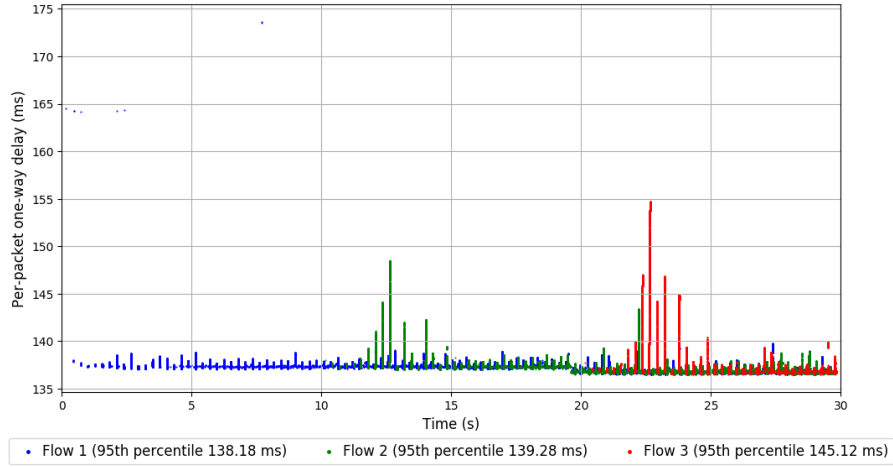
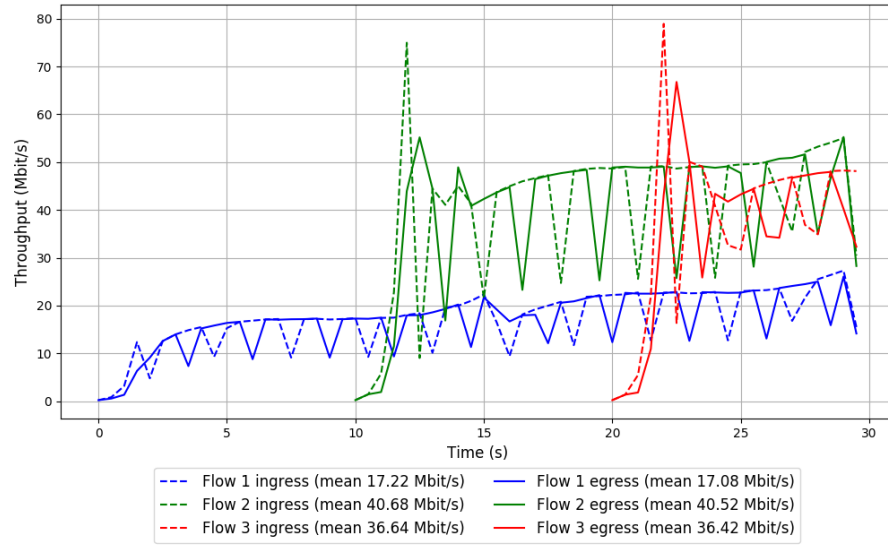
-- Flow 3:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 145.116 ms

Loss rate: 3.32%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-10 04:56:59

End at: 2018-01-10 04:57:29

Below is generated by plot.py at 2018-01-10 09:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 138.386 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 138.150 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 139.359 ms

Loss rate: 1.66%

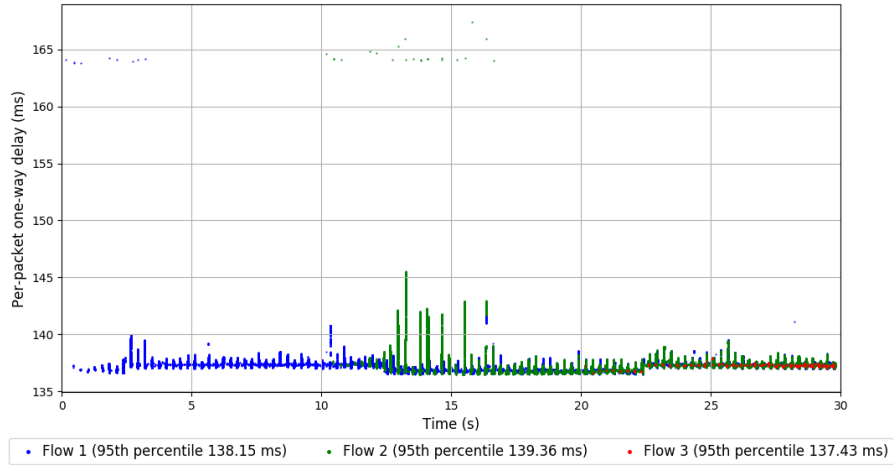
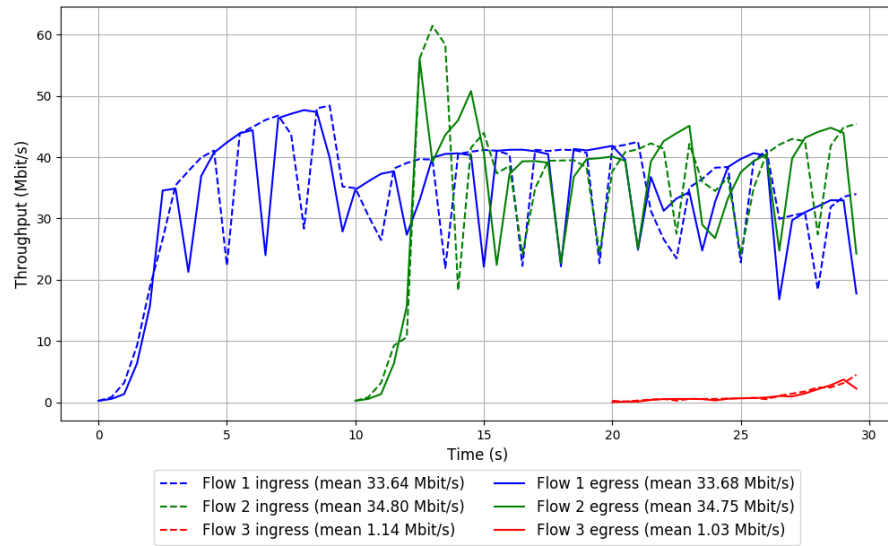
-- Flow 3:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 137.431 ms

Loss rate: 12.10%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-10 05:13:29

End at: 2018-01-10 05:13:59

Below is generated by plot.py at 2018-01-10 09:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 162.093 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 14.89 Mbit/s

95th percentile per-packet one-way delay: 162.310 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 139.988 ms

Loss rate: 2.75%

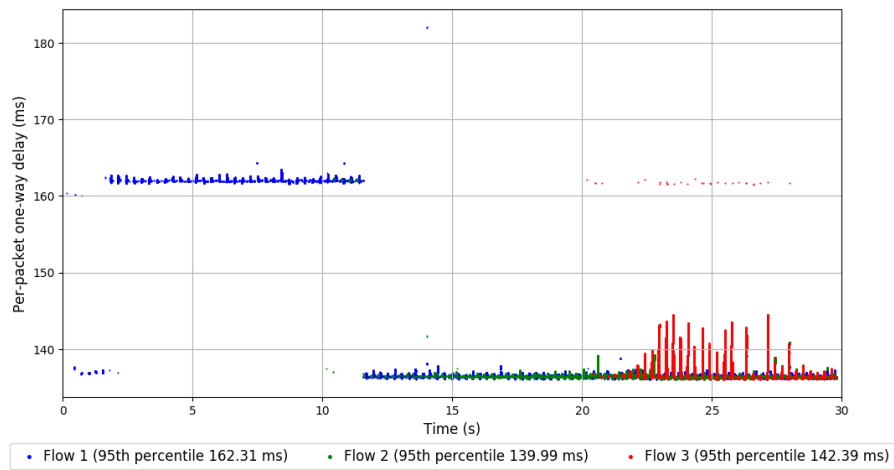
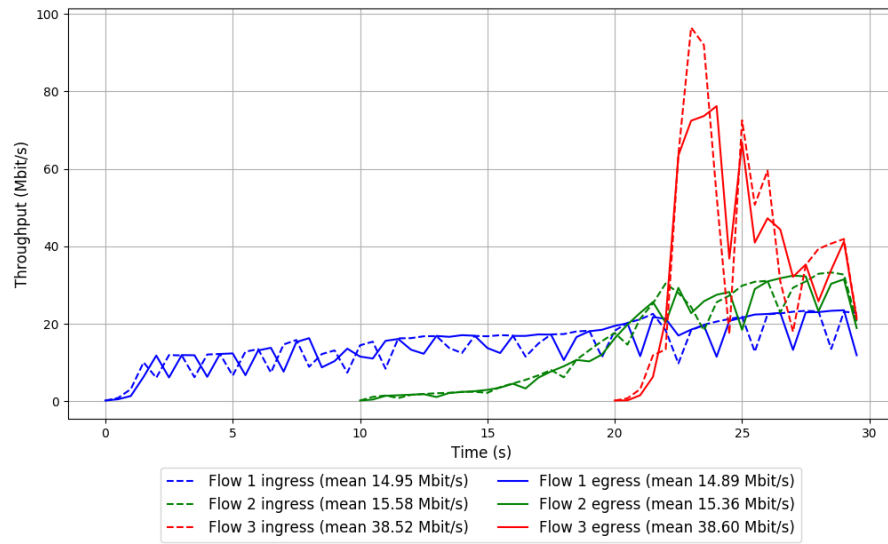
-- Flow 3:

Average throughput: 38.60 Mbit/s

95th percentile per-packet one-way delay: 142.390 ms

Loss rate: 2.80%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-10 05:29:29

End at: 2018-01-10 05:29:59

Below is generated by plot.py at 2018-01-10 09:19:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 139.670 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 138.819 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 44.64 Mbit/s

95th percentile per-packet one-way delay: 140.316 ms

Loss rate: 1.63%

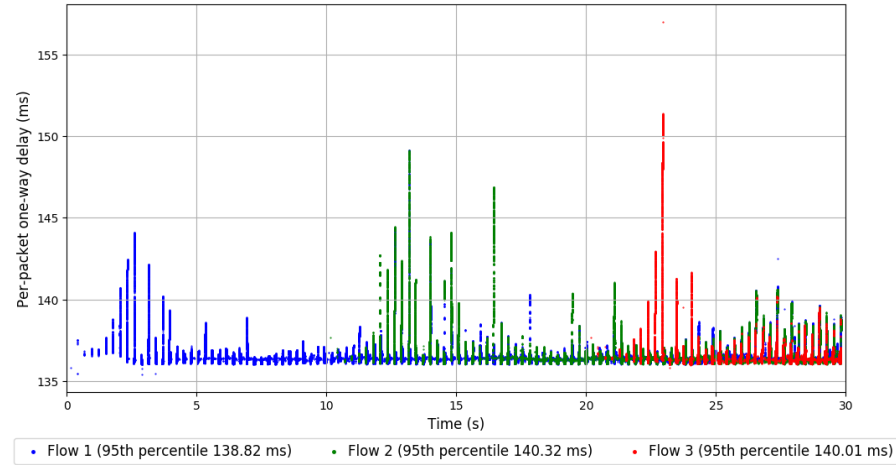
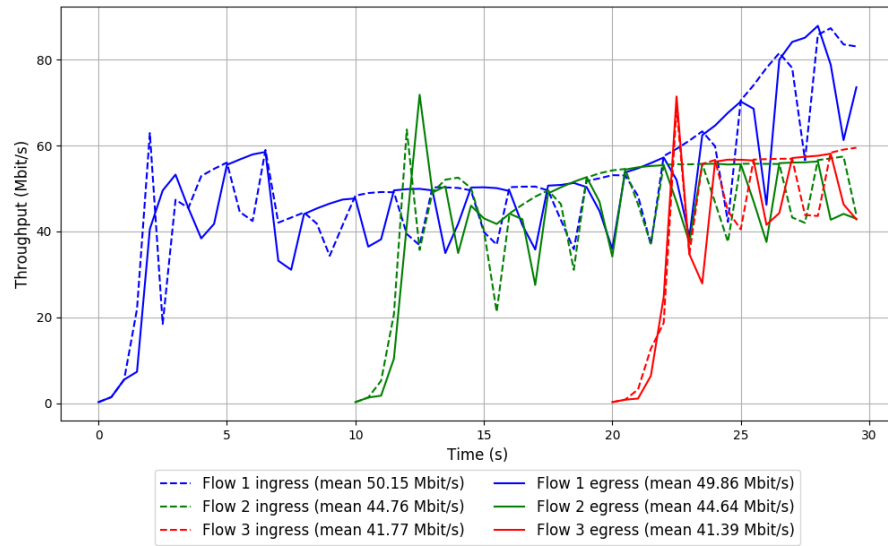
-- Flow 3:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 140.014 ms

Loss rate: 3.64%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-10 05:45:34

End at: 2018-01-10 05:46:04

Below is generated by plot.py at 2018-01-10 09:19:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.18 Mbit/s

95th percentile per-packet one-way delay: 140.690 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 142.138 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 137.449 ms

Loss rate: 1.60%

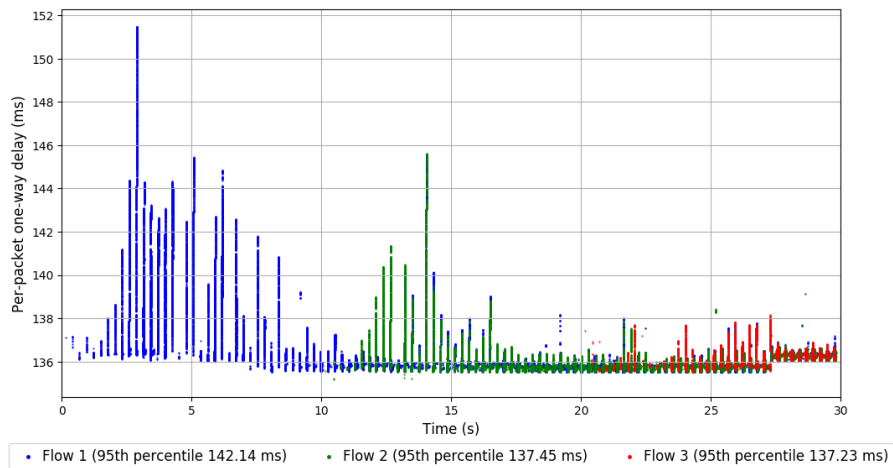
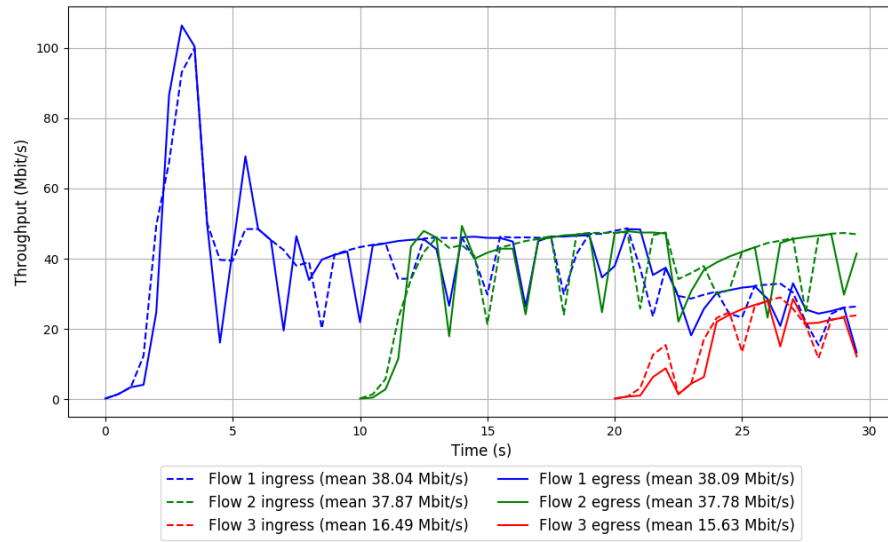
-- Flow 3:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 137.227 ms

Loss rate: 8.40%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-10 06:01:37

End at: 2018-01-10 06:02:07

Below is generated by plot.py at 2018-01-10 09:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.47 Mbit/s

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

Loss rate: 1.64%

-- Flow 1:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 137.161 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 138.712 ms

Loss rate: 1.77%

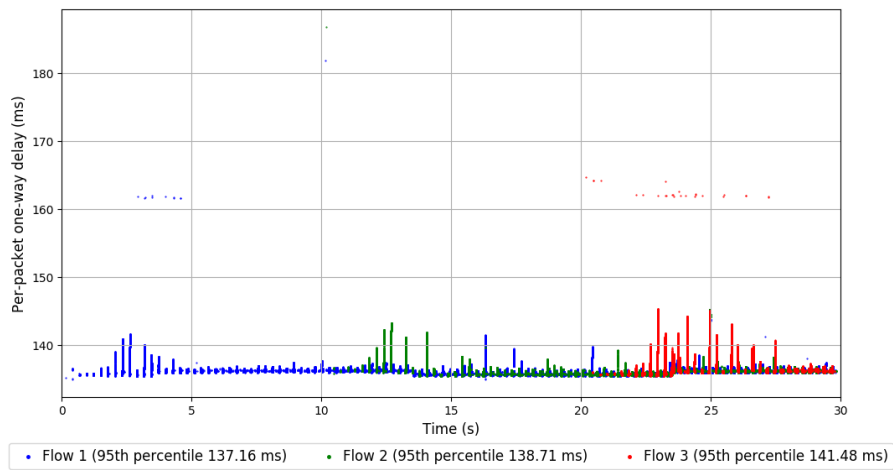
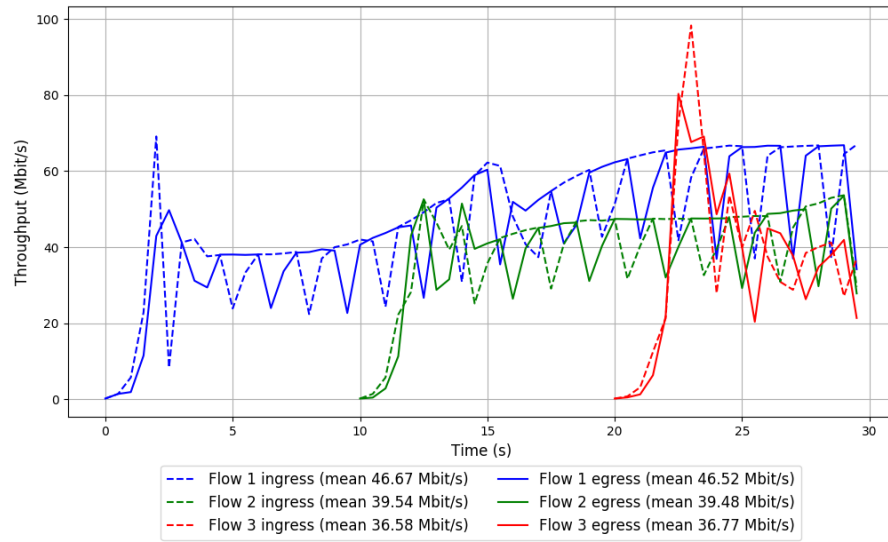
-- Flow 3:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 141.483 ms

Loss rate: 2.98%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-10 06:17:07

End at: 2018-01-10 06:17:37

Below is generated by plot.py at 2018-01-10 09:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.92 Mbit/s

95th percentile per-packet one-way delay: 139.946 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 51.77 Mbit/s

95th percentile per-packet one-way delay: 139.971 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 52.95 Mbit/s

95th percentile per-packet one-way delay: 137.307 ms

Loss rate: 1.76%

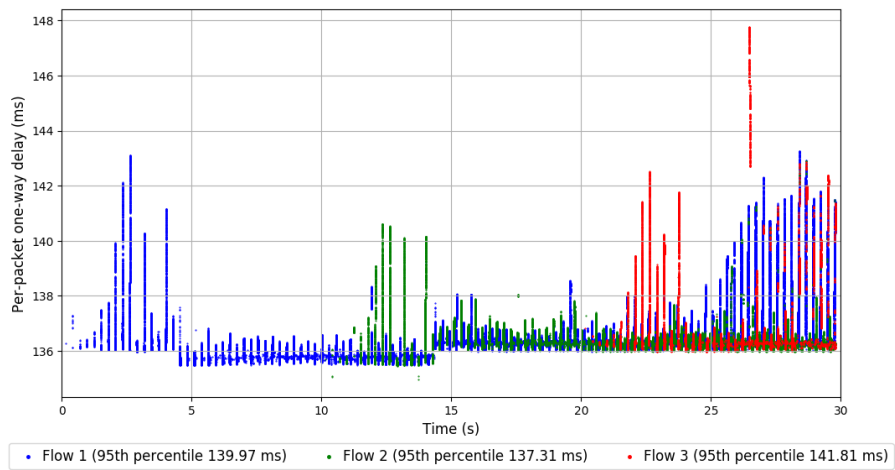
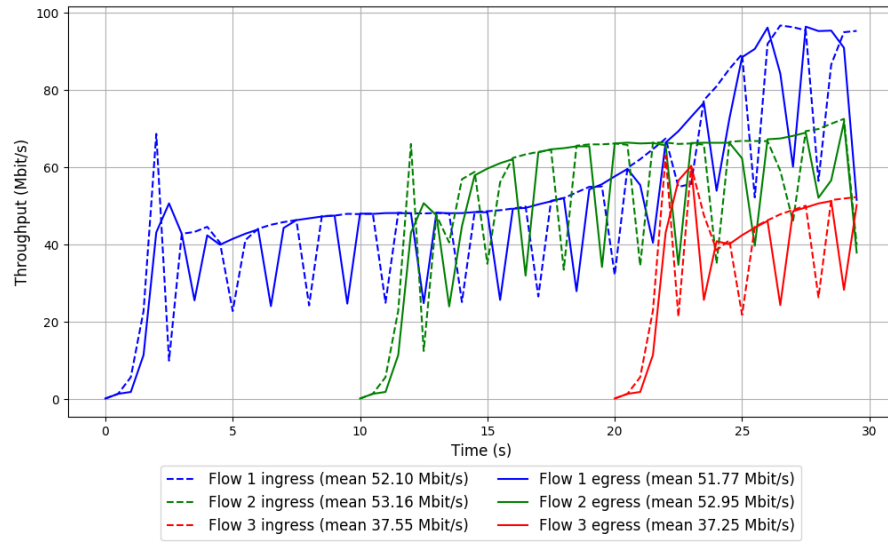
-- Flow 3:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 141.813 ms

Loss rate: 3.54%

Run 10: Report of TCP Cubic — Data Link

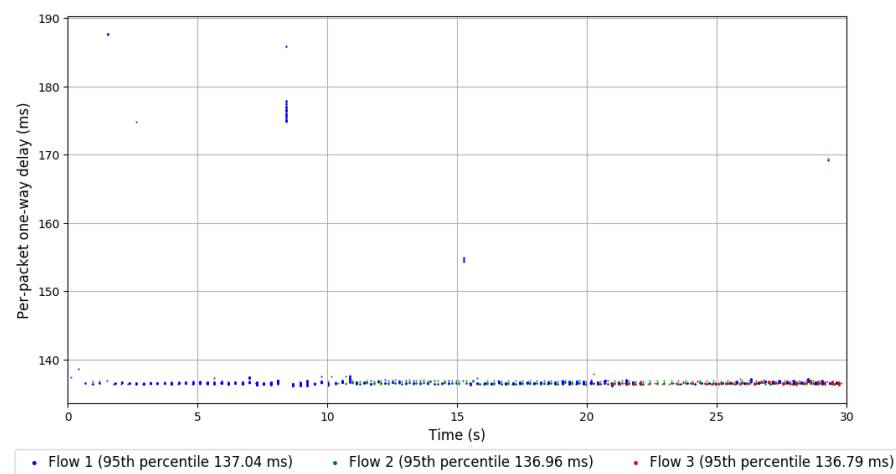
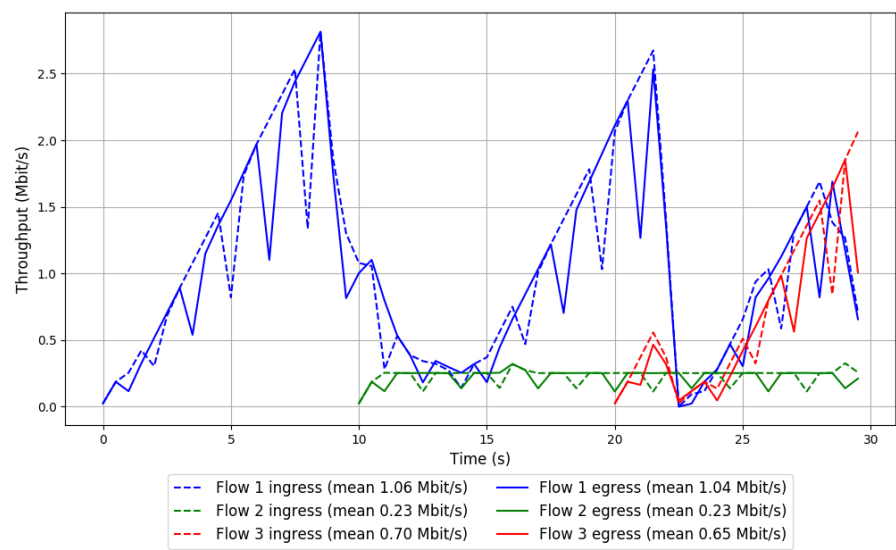


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-10 04:03:41
End at: 2018-01-10 04:04:11

# Below is generated by plot.py at 2018-01-10 09:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 136.961 ms
Loss rate: 4.46%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 137.036 ms
Loss rate: 3.52%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.958 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 136.790 ms
Loss rate: 10.05%
```


Run 1: Report of LEDBAT — Data Link

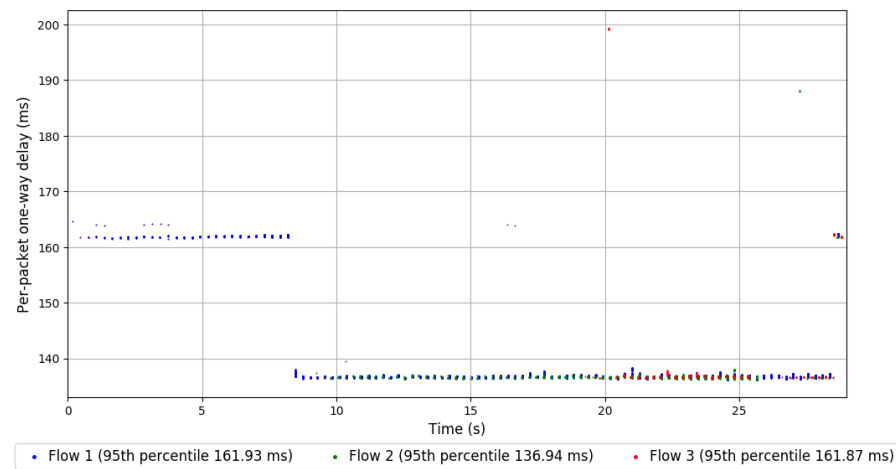
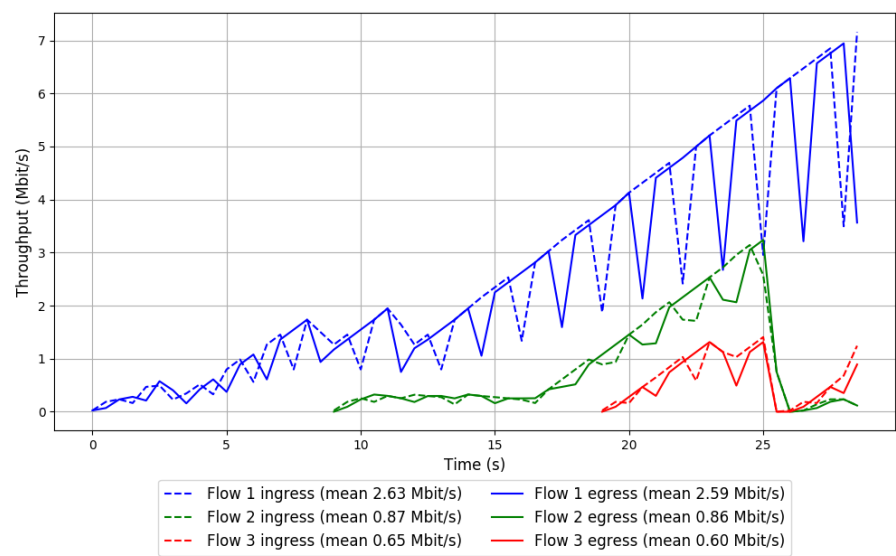


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-10 04:19:22
End at: 2018-01-10 04:19:52

# Below is generated by plot.py at 2018-01-10 09:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 161.881 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 161.930 ms
Loss rate: 2.57%
-- Flow 2:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 136.944 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 161.872 ms
Loss rate: 10.98%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-10 04:34:02

End at: 2018-01-10 04:34:32

Below is generated by plot.py at 2018-01-10 09:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 162.268 ms

Loss rate: 2.83%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 162.299 ms

Loss rate: 3.99%

-- Flow 2:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 162.232 ms

Loss rate: 1.67%

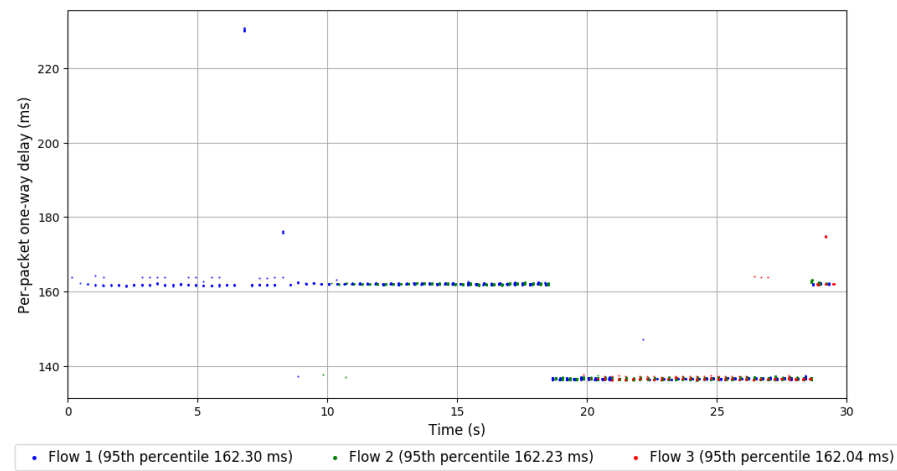
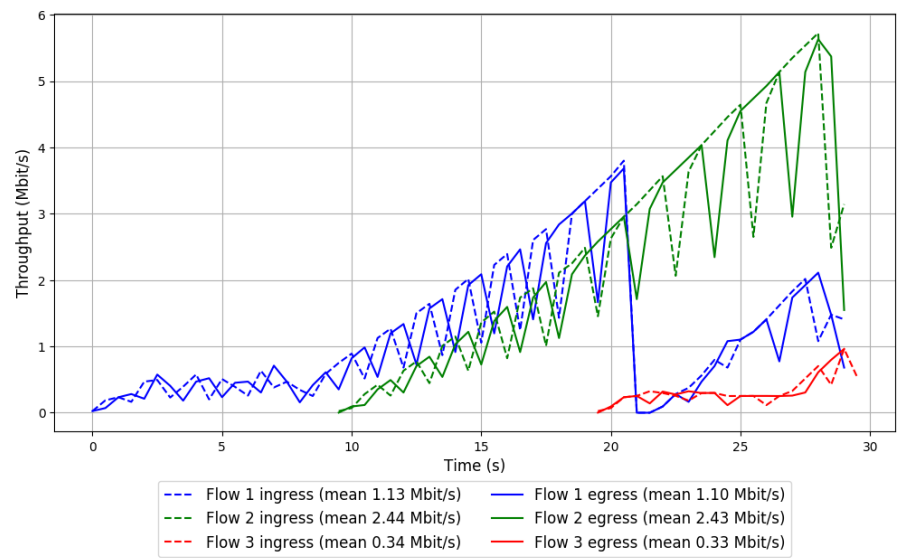
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 162.040 ms

Loss rate: 7.90%

Run 3: Report of LEDBAT — Data Link

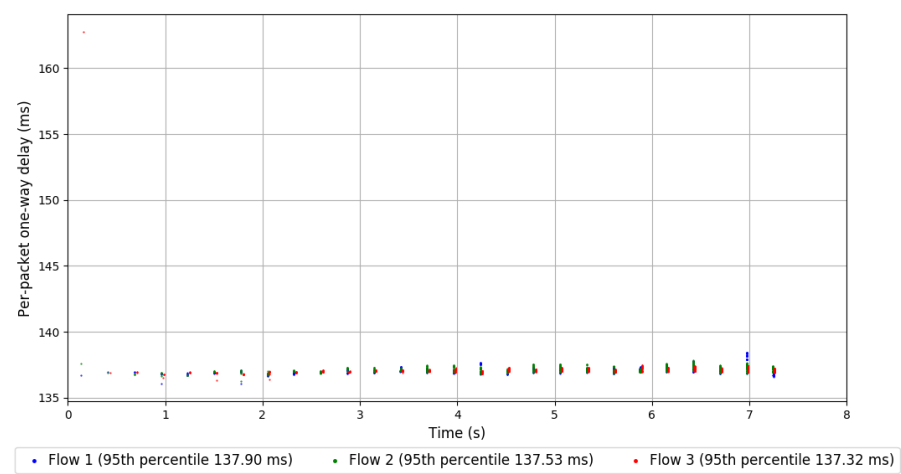
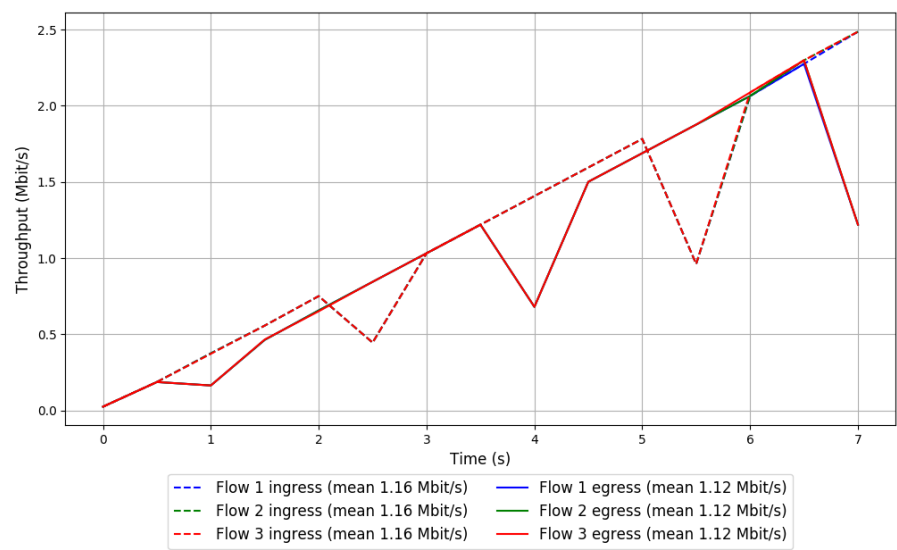


Run 4: Statistics of LEDBAT

Start at: 2018-01-10 04:49:58

End at: 2018-01-10 04:50:28

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-10 05:06:05

End at: 2018-01-10 05:06:35

Below is generated by plot.py at 2018-01-10 09:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 137.931 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 137.972 ms

Loss rate: 2.25%

-- Flow 2:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 137.948 ms

Loss rate: 2.02%

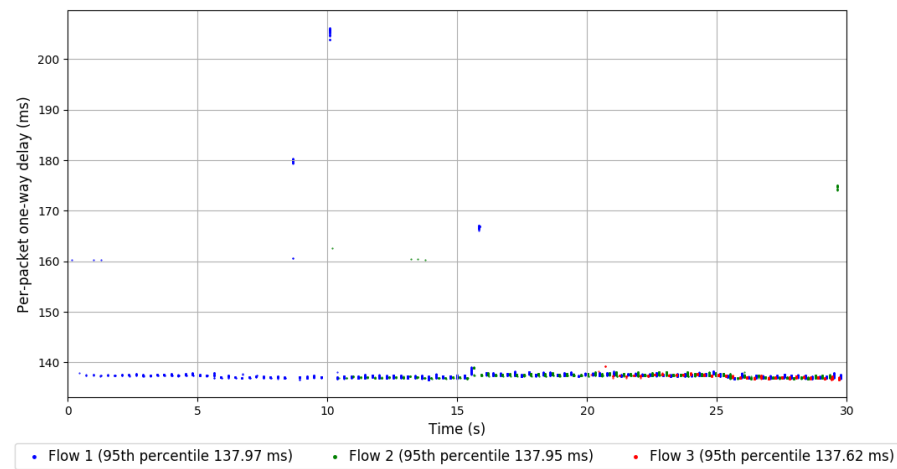
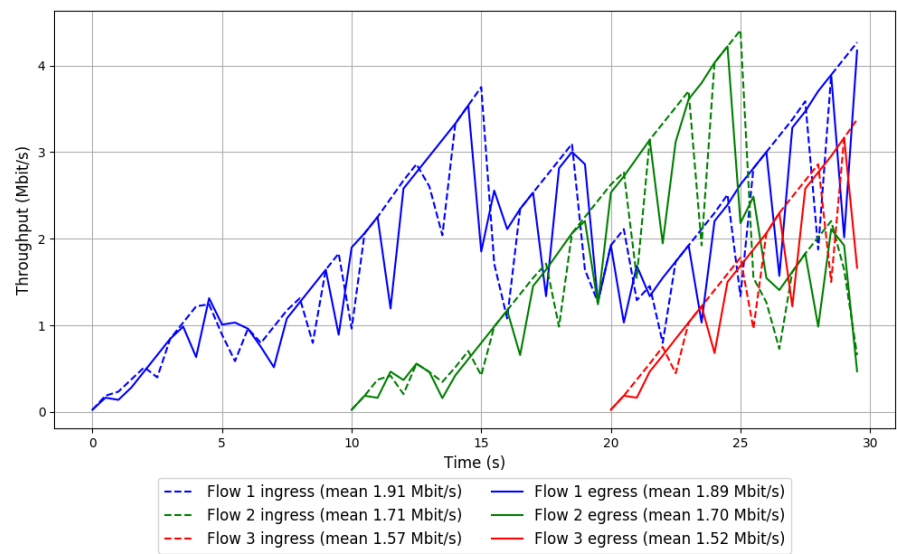
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 137.616 ms

Loss rate: 5.57%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-10 05:22:19

End at: 2018-01-10 05:22:49

Below is generated by plot.py at 2018-01-10 09:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 137.314 ms

Loss rate: 2.89%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 137.288 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 137.827 ms

Loss rate: 3.07%

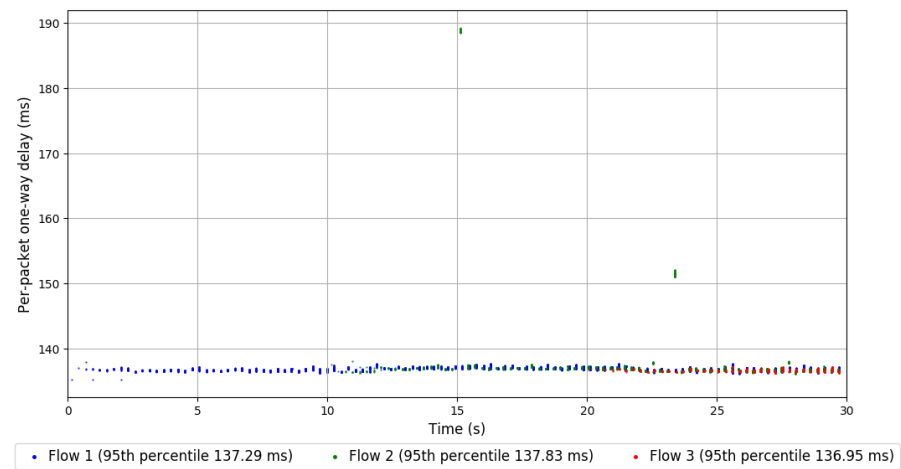
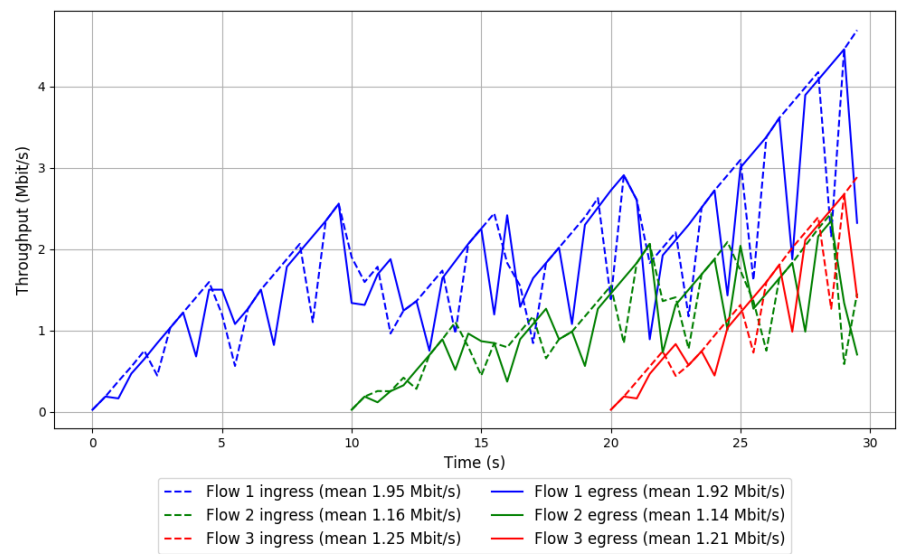
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.953 ms

Loss rate: 6.01%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-10 05:38:27

End at: 2018-01-10 05:38:57

Below is generated by plot.py at 2018-01-10 09:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.97 Mbit/s

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

Loss rate: 3.84%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 137.343 ms

Loss rate: 4.04%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 137.155 ms

Loss rate: 2.17%

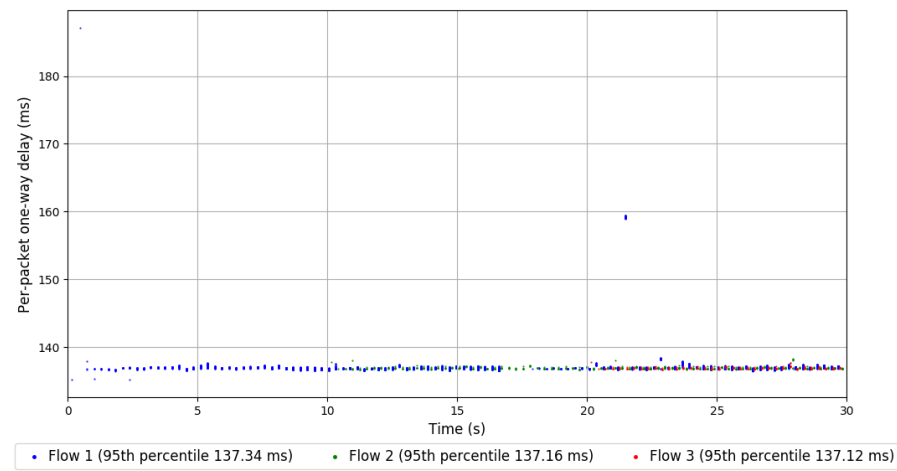
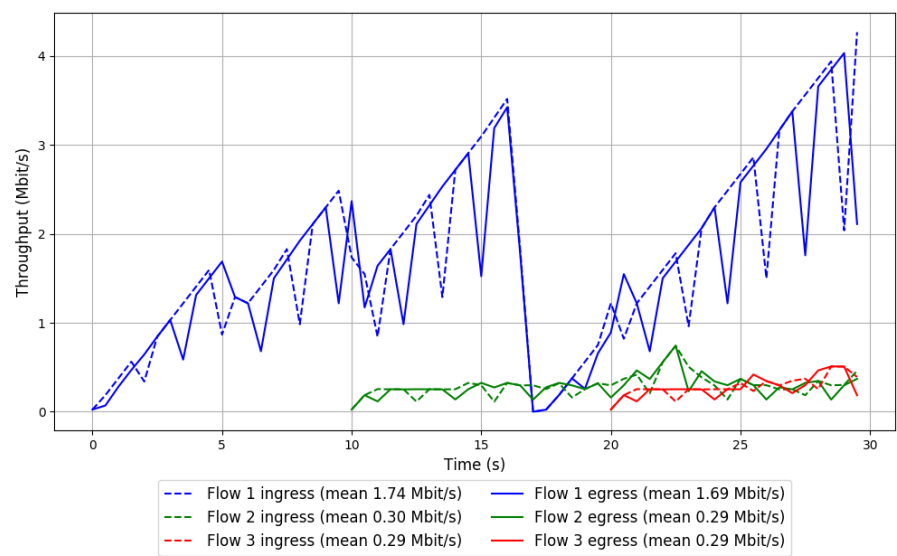
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 137.122 ms

Loss rate: 3.62%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-10 05:54:38

End at: 2018-01-10 05:55:08

Below is generated by plot.py at 2018-01-10 09:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 136.379 ms

Loss rate: 3.67%

-- Flow 1:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 3.15%

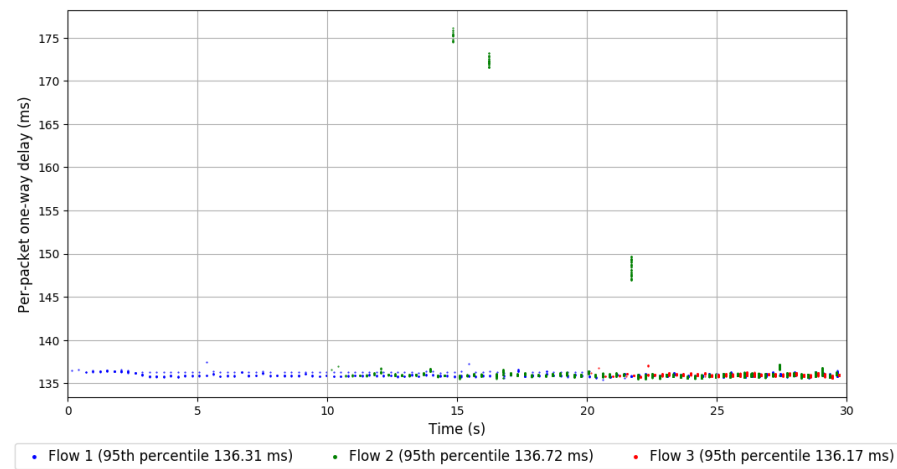
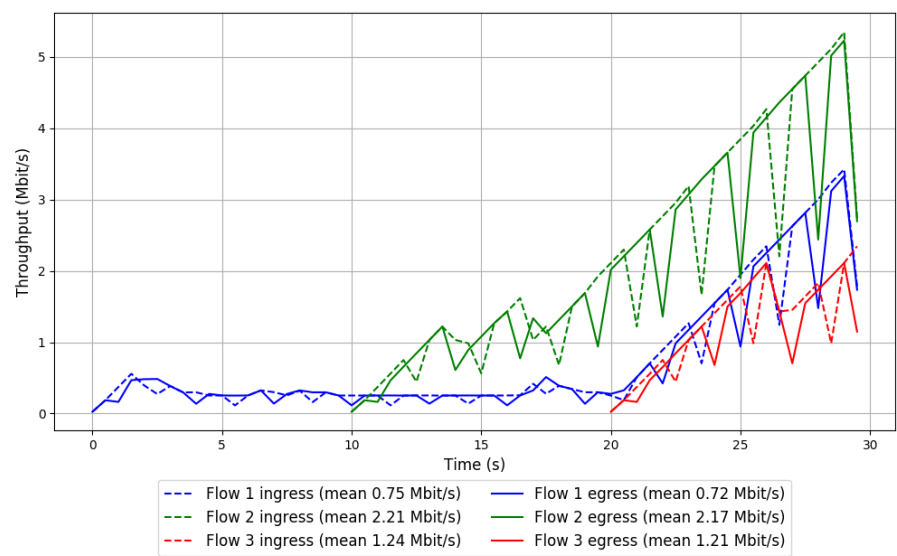
-- Flow 3:

Average throughput: 1.21 Mbit/s

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

Loss rate: 4.93%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-10 06:10:28

End at: 2018-01-10 06:10:58

Below is generated by plot.py at 2018-01-10 09:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 136.606 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 136.596 ms

Loss rate: 2.77%

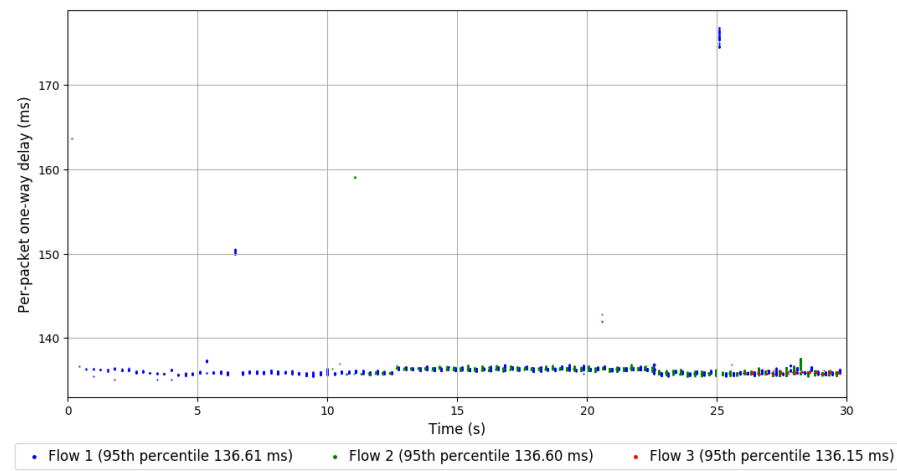
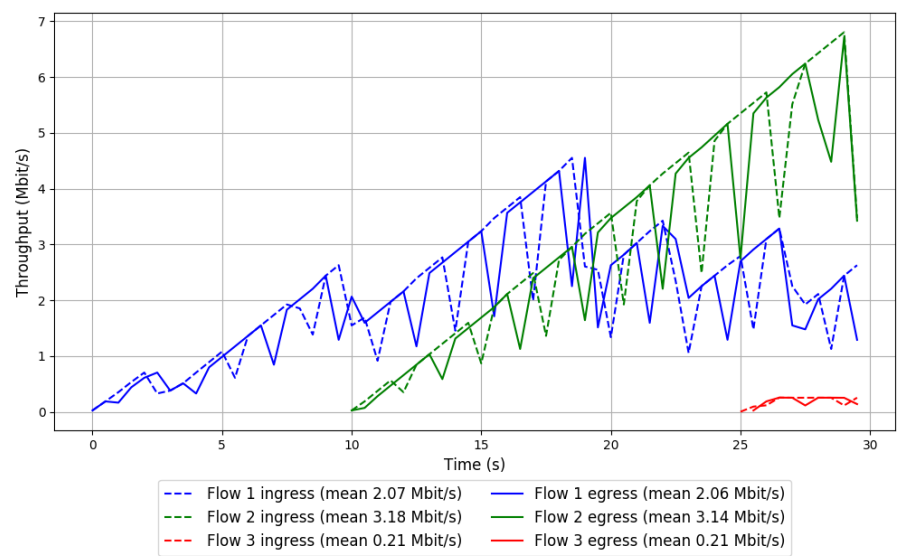
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 136.145 ms

Loss rate: 6.23%

Run 9: Report of LEDBAT — Data Link

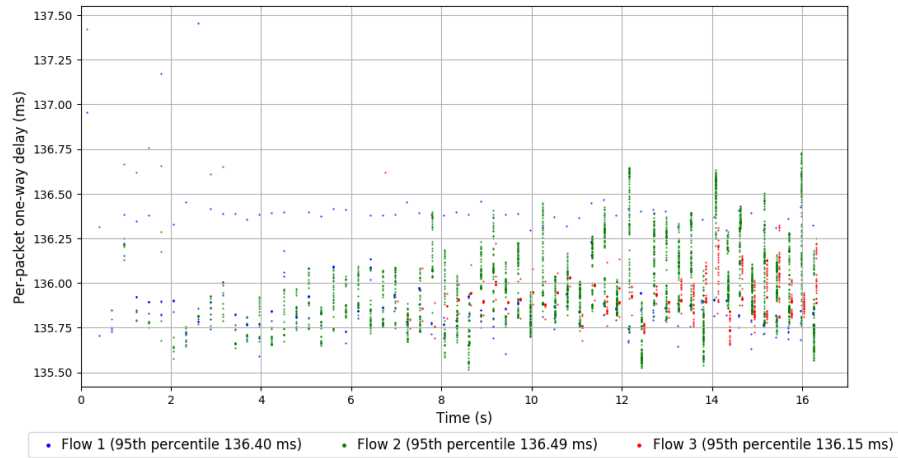
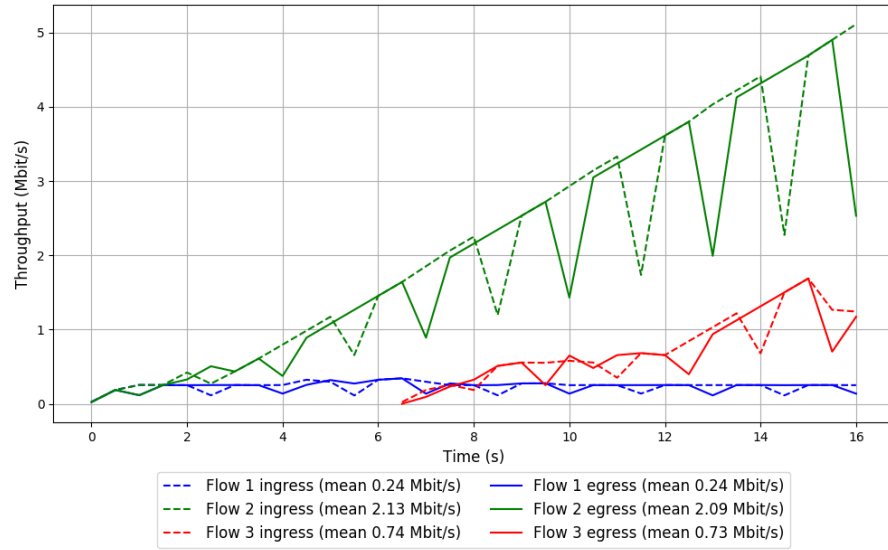


Run 10: Statistics of LEDBAT

Start at: 2018-01-10 06:26:21

End at: 2018-01-10 06:26:51

Run 10: Report of LEDBAT — Data Link

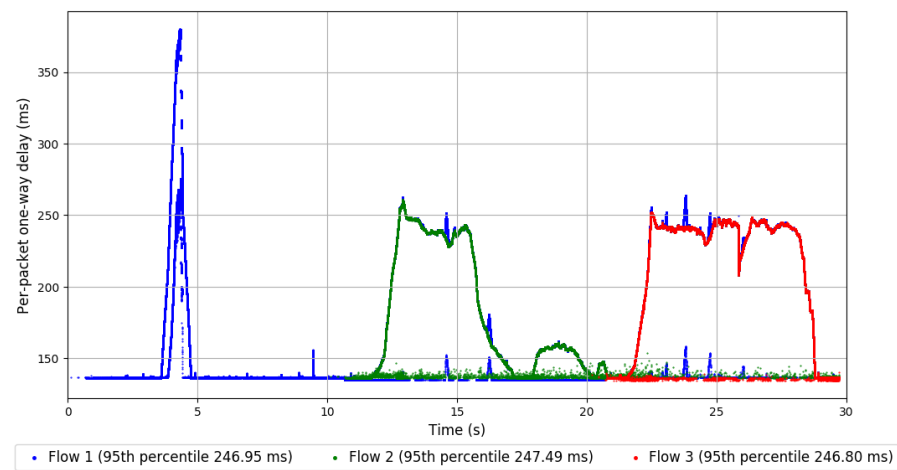
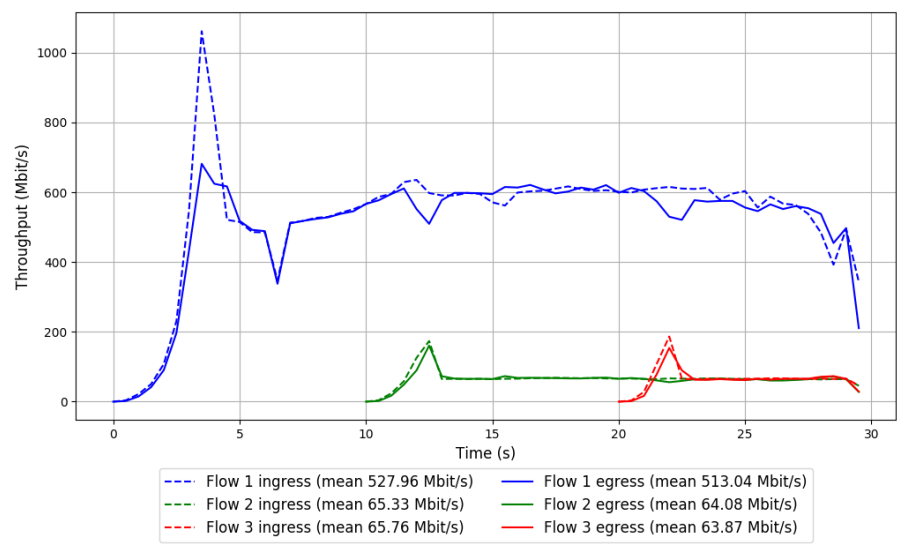


```
Run 1: Statistics of PCC

Start at: 2018-01-10 03:50:58
End at: 2018-01-10 03:51:28

# Below is generated by plot.py at 2018-01-10 09:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.95 Mbit/s
95th percentile per-packet one-way delay: 246.982 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 513.04 Mbit/s
95th percentile per-packet one-way delay: 246.952 ms
Loss rate: 3.72%
-- Flow 2:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 247.487 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 246.796 ms
Loss rate: 5.56%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-10 04:06:53

End at: 2018-01-10 04:07:23

Below is generated by plot.py at 2018-01-10 09:27:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.60 Mbit/s

95th percentile per-packet one-way delay: 247.711 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 545.37 Mbit/s

95th percentile per-packet one-way delay: 247.872 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 64.73 Mbit/s

95th percentile per-packet one-way delay: 245.825 ms

Loss rate: 2.15%

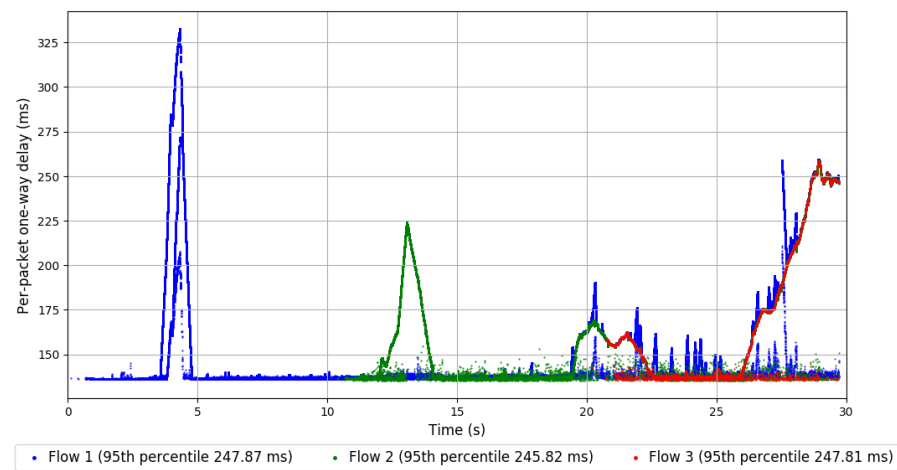
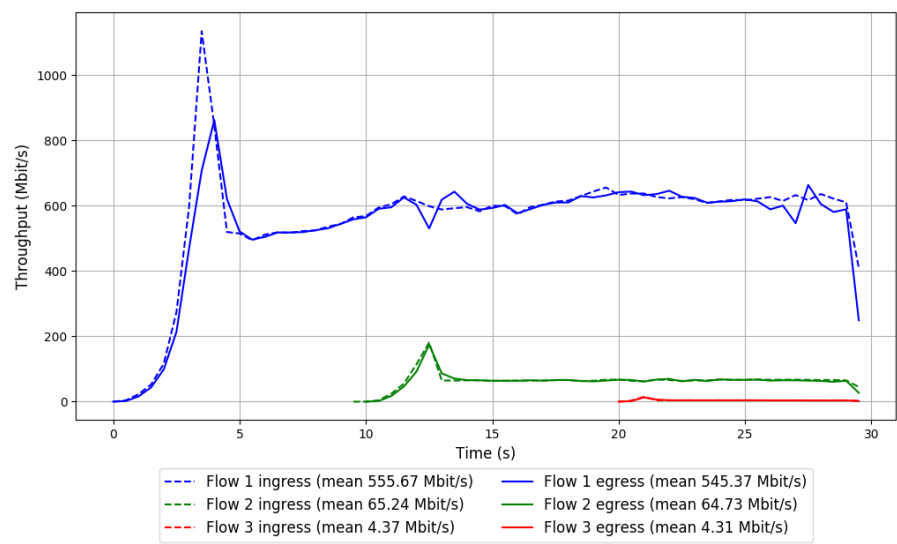
-- Flow 3:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 247.814 ms

Loss rate: 3.99%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-10 04:21:58

End at: 2018-01-10 04:22:28

Below is generated by plot.py at 2018-01-10 09:27:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.88 Mbit/s

95th percentile per-packet one-way delay: 244.597 ms

Loss rate: 4.95%

-- Flow 1:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 164.032 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 181.271 ms

Loss rate: 2.27%

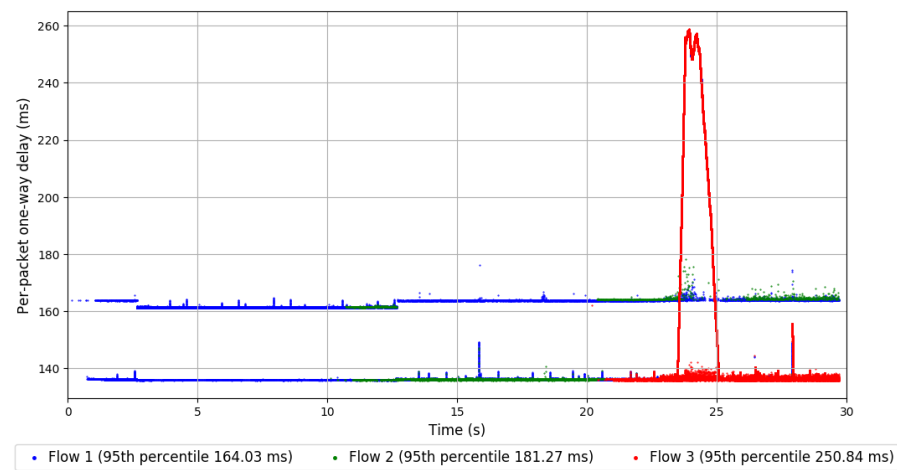
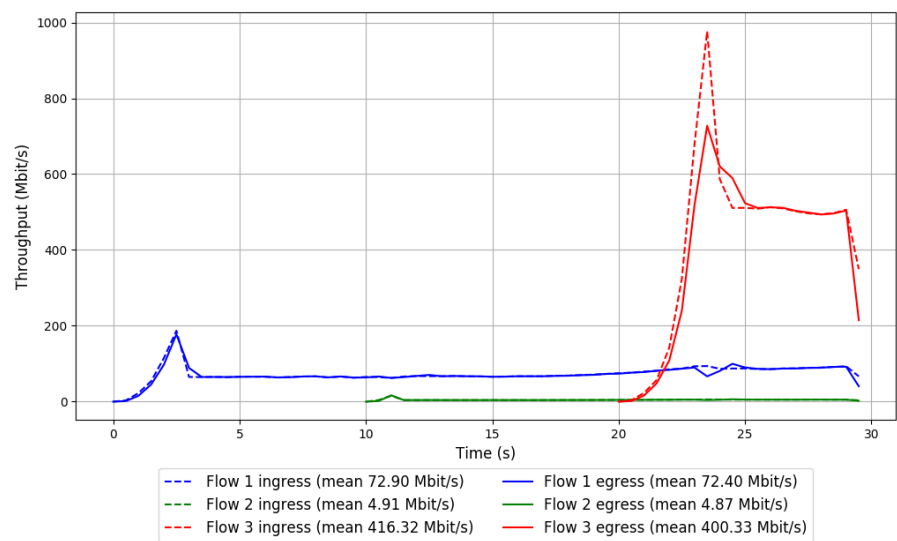
-- Flow 3:

Average throughput: 400.33 Mbit/s

95th percentile per-packet one-way delay: 250.845 ms

Loss rate: 6.75%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-10 04:36:49

End at: 2018-01-10 04:37:19

Below is generated by plot.py at 2018-01-10 09:28:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 578.04 Mbit/s

95th percentile per-packet one-way delay: 247.695 ms

Loss rate: 3.88%

-- Flow 1:

Average throughput: 475.40 Mbit/s

95th percentile per-packet one-way delay: 248.901 ms

Loss rate: 3.83%

-- Flow 2:

Average throughput: 125.22 Mbit/s

95th percentile per-packet one-way delay: 243.701 ms

Loss rate: 3.56%

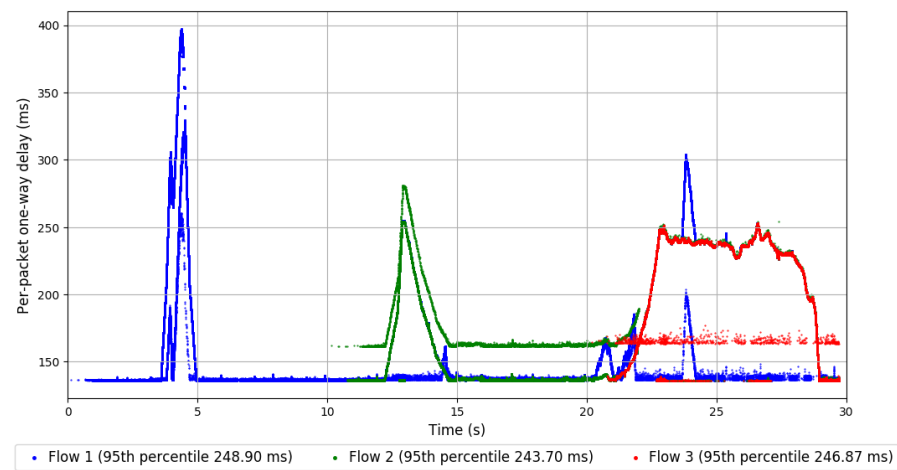
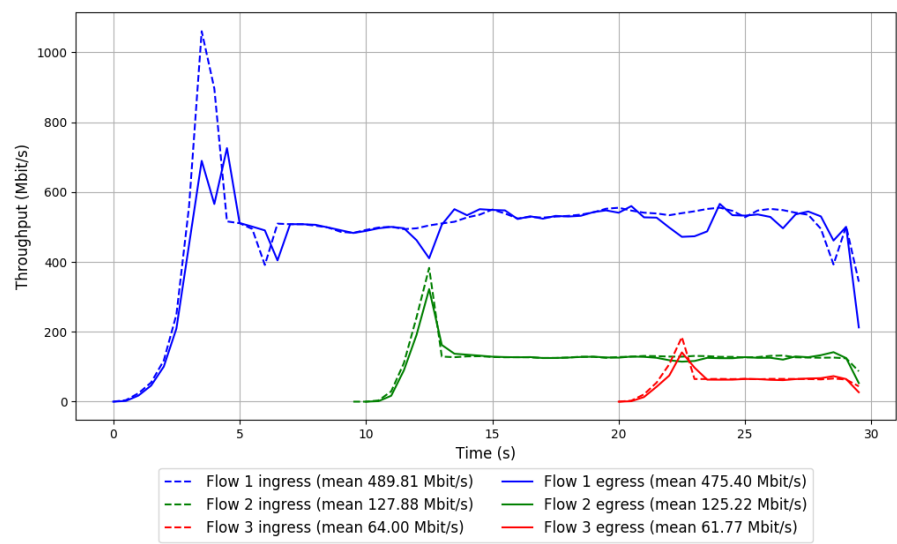
-- Flow 3:

Average throughput: 61.77 Mbit/s

95th percentile per-packet one-way delay: 246.873 ms

Loss rate: 6.44%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-10 04:52:43

End at: 2018-01-10 04:53:13

Below is generated by plot.py at 2018-01-10 09:28:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 567.42 Mbit/s

95th percentile per-packet one-way delay: 245.597 ms

Loss rate: 4.32%

-- Flow 1:

Average throughput: 467.51 Mbit/s

95th percentile per-packet one-way delay: 245.458 ms

Loss rate: 4.18%

-- Flow 2:

Average throughput: 122.05 Mbit/s

95th percentile per-packet one-way delay: 245.723 ms

Loss rate: 4.32%

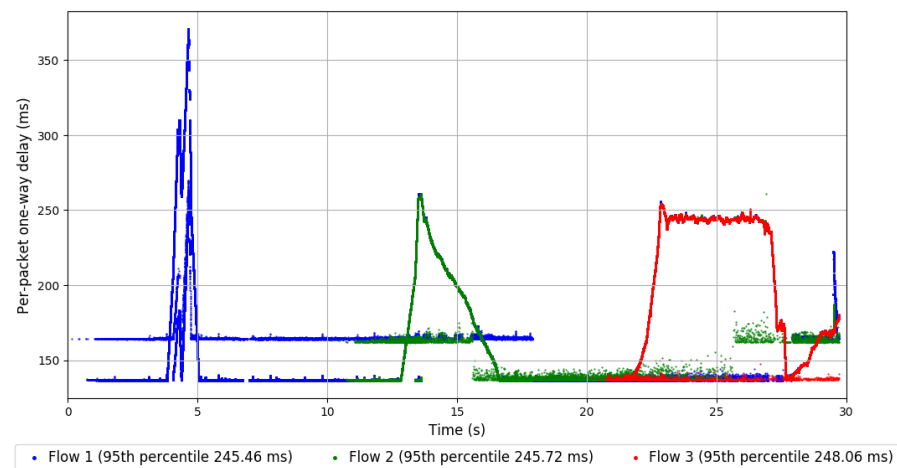
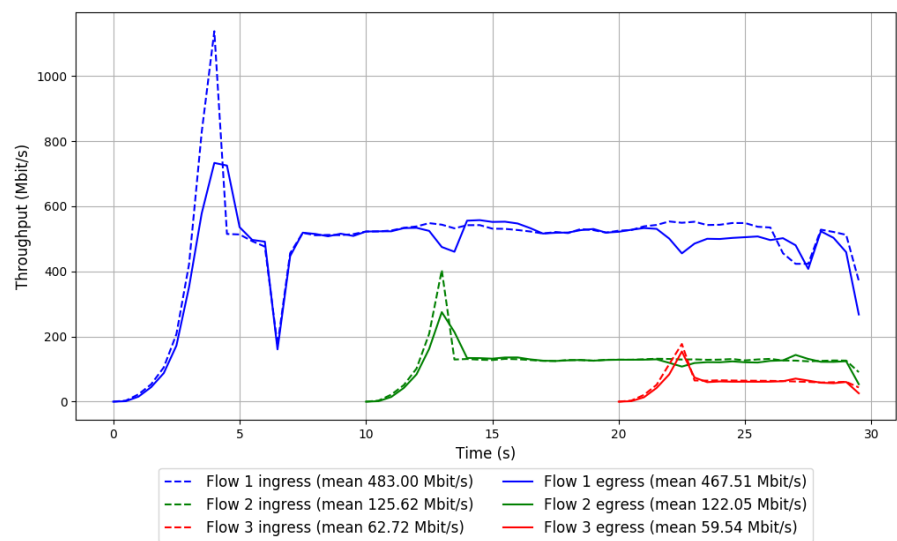
-- Flow 3:

Average throughput: 59.54 Mbit/s

95th percentile per-packet one-way delay: 248.058 ms

Loss rate: 7.72%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-10 05:09:12

End at: 2018-01-10 05:09:42

Below is generated by plot.py at 2018-01-10 09:28:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.18 Mbit/s

95th percentile per-packet one-way delay: 247.489 ms

Loss rate: 3.49%

-- Flow 1:

Average throughput: 503.82 Mbit/s

95th percentile per-packet one-way delay: 247.331 ms

Loss rate: 3.38%

-- Flow 2:

Average throughput: 119.38 Mbit/s

95th percentile per-packet one-way delay: 248.786 ms

Loss rate: 4.20%

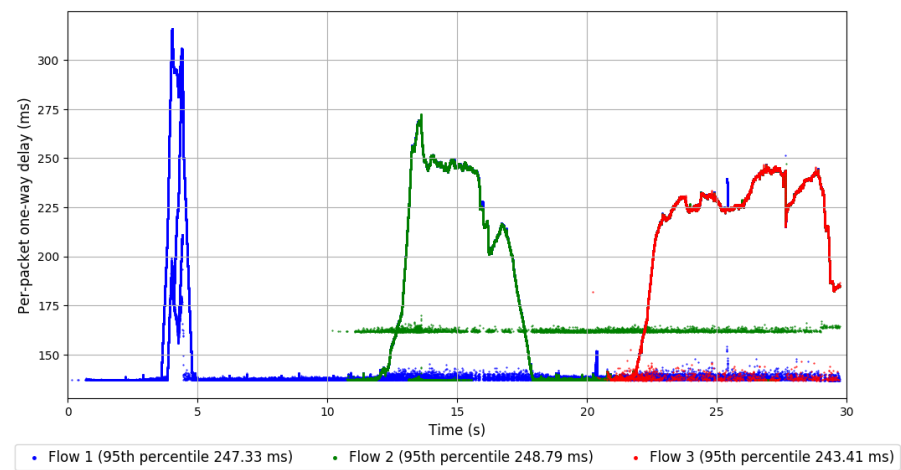
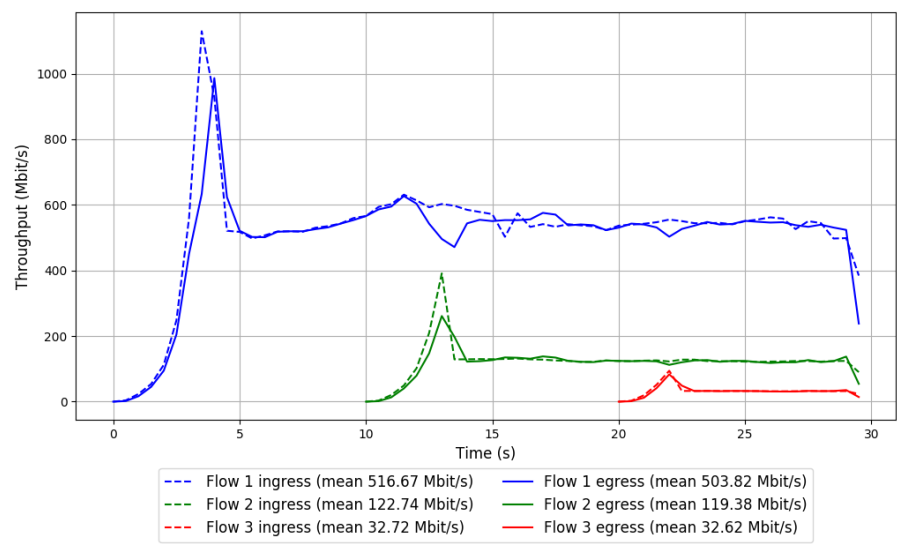
-- Flow 3:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 243.414 ms

Loss rate: 3.51%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-10 05:25:14

End at: 2018-01-10 05:25:44

Below is generated by plot.py at 2018-01-10 09:28:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.76 Mbit/s

95th percentile per-packet one-way delay: 221.012 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 325.63 Mbit/s

95th percentile per-packet one-way delay: 220.885 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 245.71 Mbit/s

95th percentile per-packet one-way delay: 221.189 ms

Loss rate: 3.23%

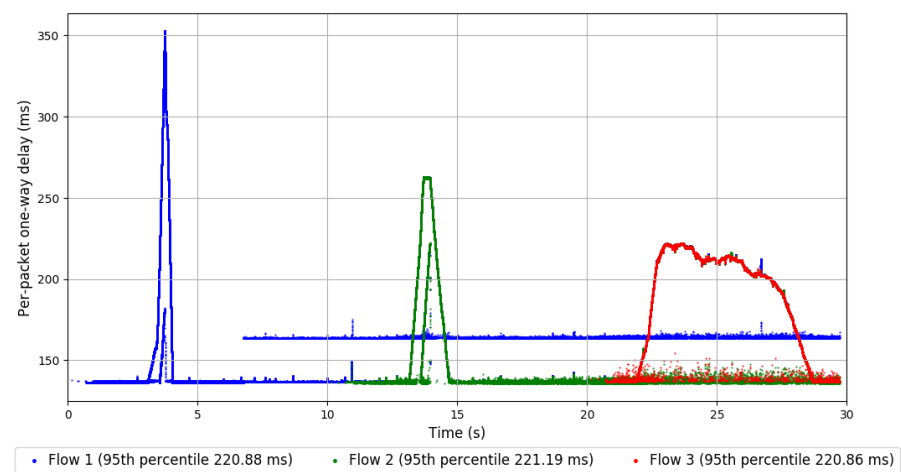
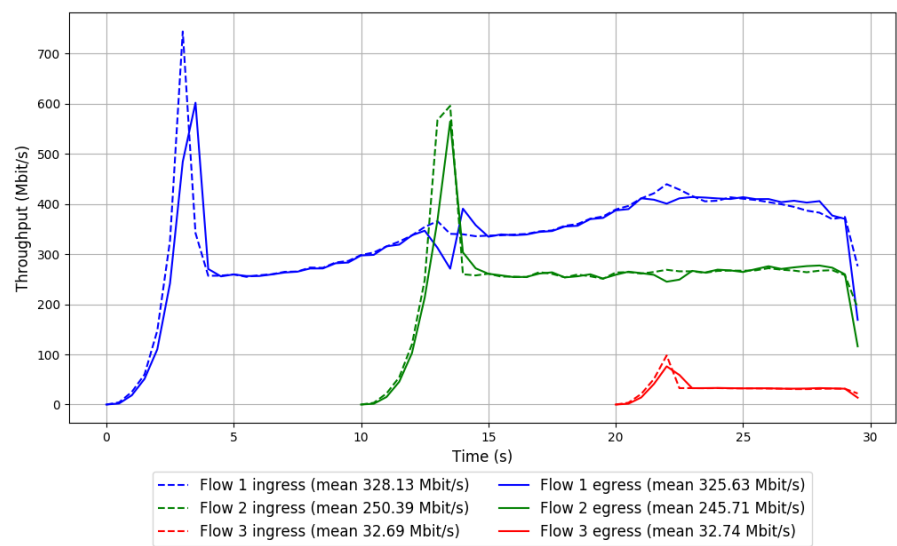
-- Flow 3:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 220.857 ms

Loss rate: 2.64%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-10 05:41:21

End at: 2018-01-10 05:41:51

Below is generated by plot.py at 2018-01-10 09:29:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 573.80 Mbit/s

95th percentile per-packet one-way delay: 246.749 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 479.52 Mbit/s

95th percentile per-packet one-way delay: 246.721 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 126.83 Mbit/s

95th percentile per-packet one-way delay: 246.731 ms

Loss rate: 3.70%

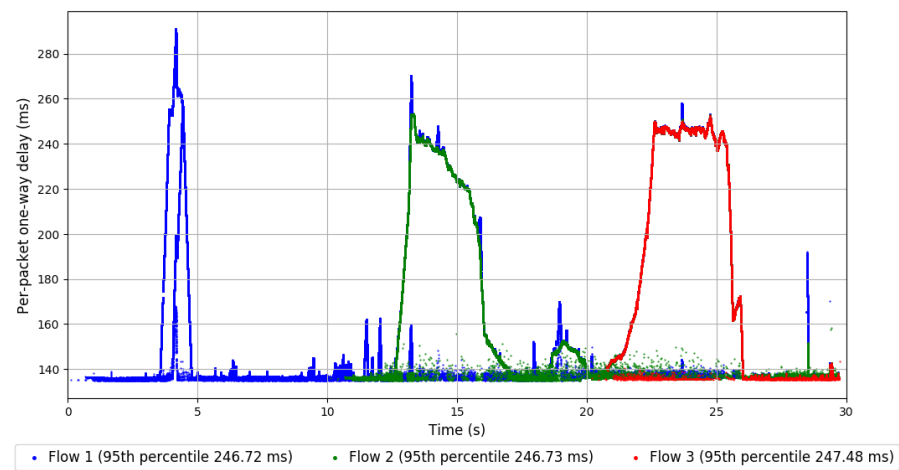
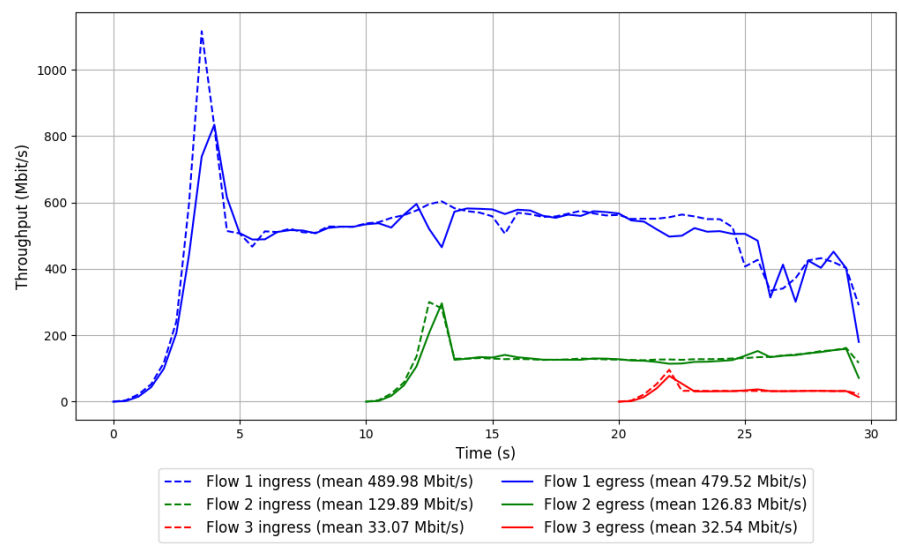
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 247.479 ms

Loss rate: 4.28%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-10 05:57:39

End at: 2018-01-10 05:58:09

Below is generated by plot.py at 2018-01-10 09:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 571.99 Mbit/s

95th percentile per-packet one-way delay: 248.626 ms

Loss rate: 3.55%

-- Flow 1:

Average throughput: 484.75 Mbit/s

95th percentile per-packet one-way delay: 248.621 ms

Loss rate: 3.59%

-- Flow 2:

Average throughput: 123.99 Mbit/s

95th percentile per-packet one-way delay: 248.649 ms

Loss rate: 3.31%

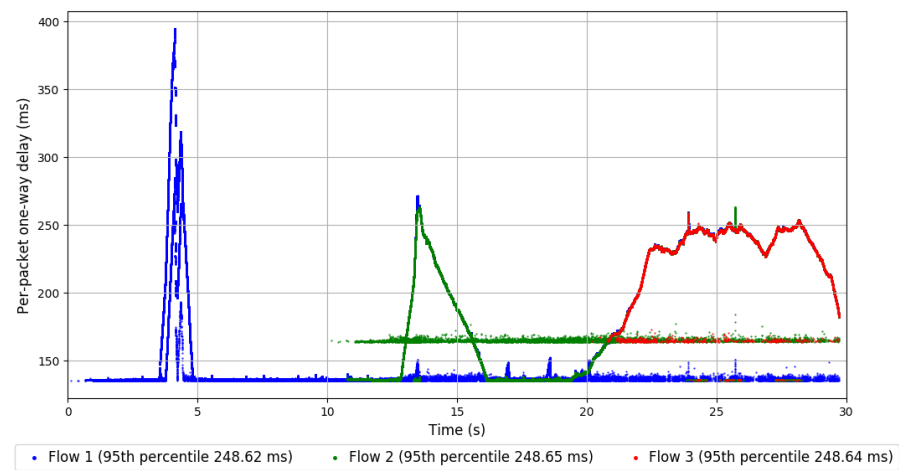
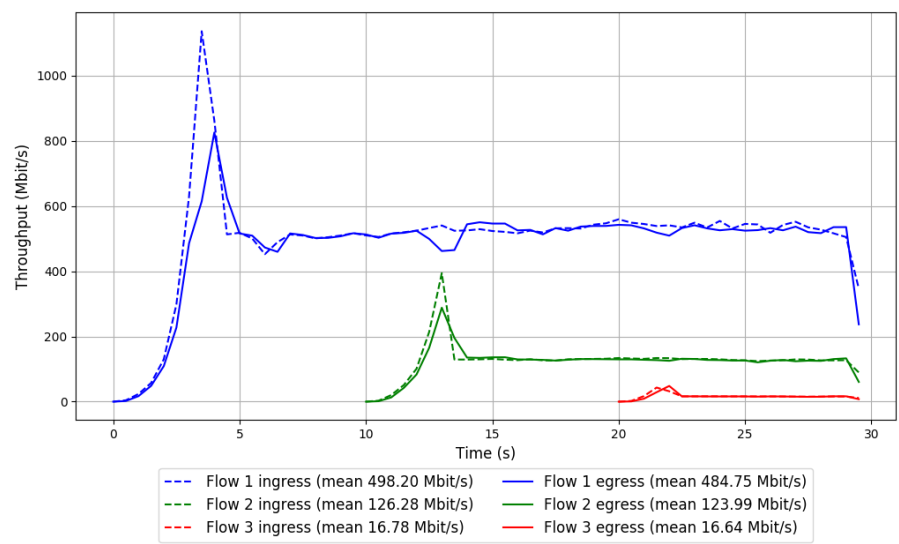
-- Flow 3:

Average throughput: 16.64 Mbit/s

95th percentile per-packet one-way delay: 248.644 ms

Loss rate: 3.88%

Run 9: Report of PCC — Data Link

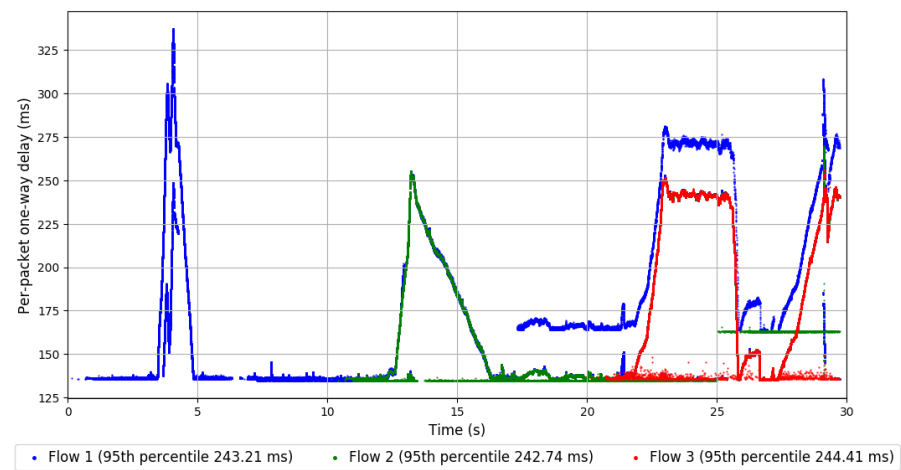
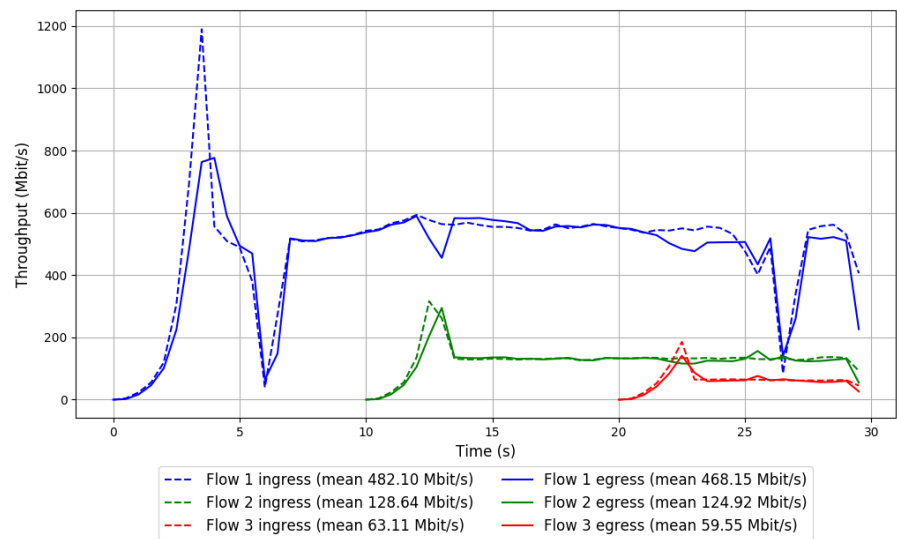


```
Run 10: Statistics of PCC

Start at: 2018-01-10 06:13:14
End at: 2018-01-10 06:13:44

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 570.04 Mbit/s
95th percentile per-packet one-way delay: 243.195 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 468.15 Mbit/s
95th percentile per-packet one-way delay: 243.209 ms
Loss rate: 3.78%
-- Flow 2:
Average throughput: 124.92 Mbit/s
95th percentile per-packet one-way delay: 242.737 ms
Loss rate: 4.22%
-- Flow 3:
Average throughput: 59.55 Mbit/s
95th percentile per-packet one-way delay: 244.411 ms
Loss rate: 8.31%
```

Run 10: Report of PCC — Data Link

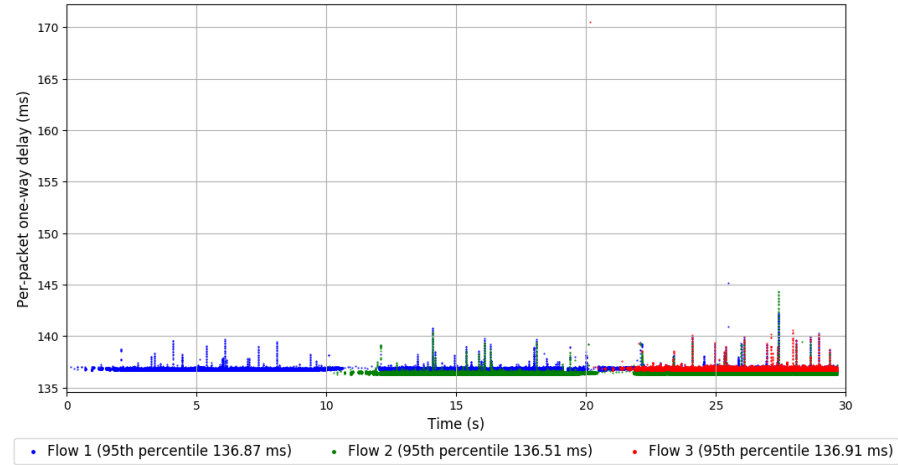
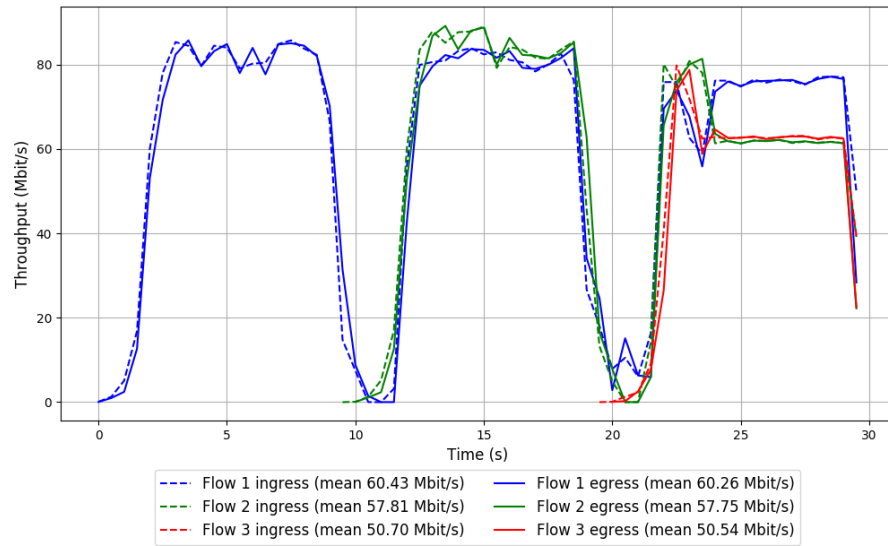


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-10 04:01:55
End at: 2018-01-10 04:02:25

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.79 Mbit/s
95th percentile per-packet one-way delay: 136.858 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: 136.866 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 57.75 Mbit/s
95th percentile per-packet one-way delay: 136.512 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 50.54 Mbit/s
95th percentile per-packet one-way delay: 136.909 ms
Loss rate: 3.42%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-10 04:17:33

End at: 2018-01-10 04:18:03

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.08 Mbit/s

95th percentile per-packet one-way delay: 164.129 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 136.857 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 135.996 ms

Loss rate: 0.13%

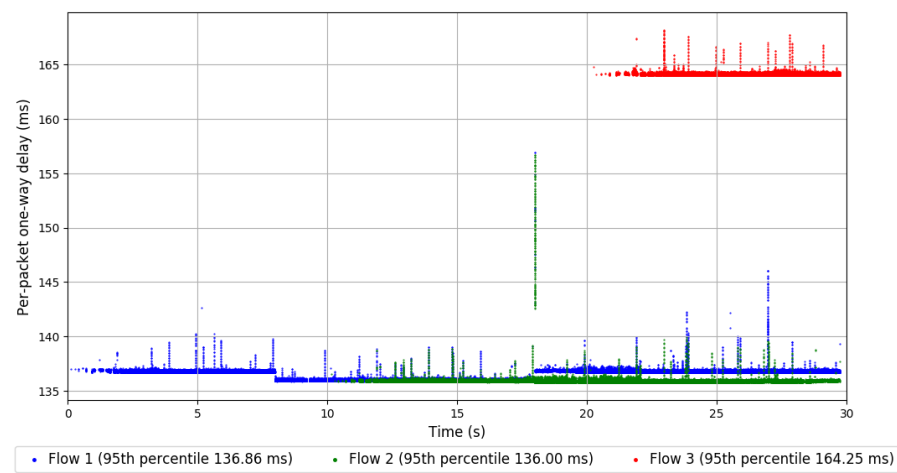
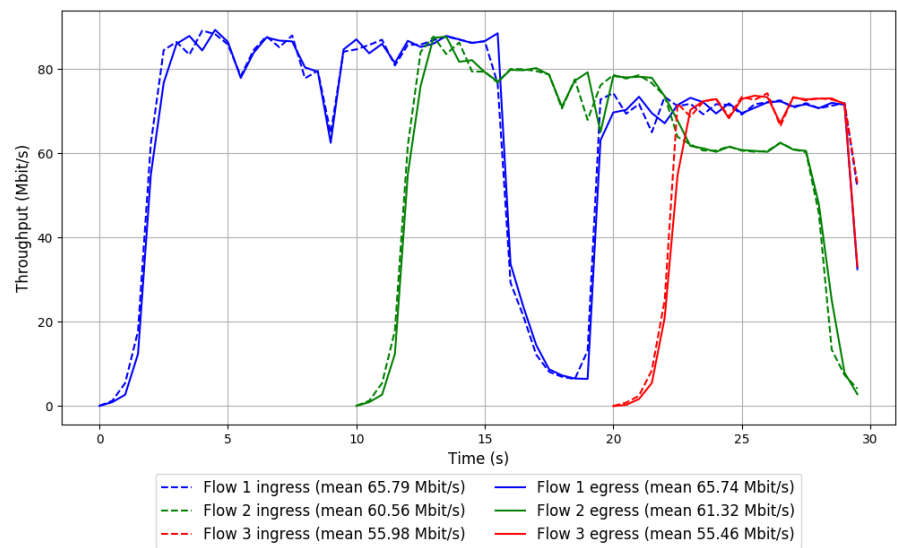
-- Flow 3:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 164.249 ms

Loss rate: 3.99%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-10 04:32:15

End at: 2018-01-10 04:32:45

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: 163.720 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 161.900 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 136.431 ms

Loss rate: 1.78%

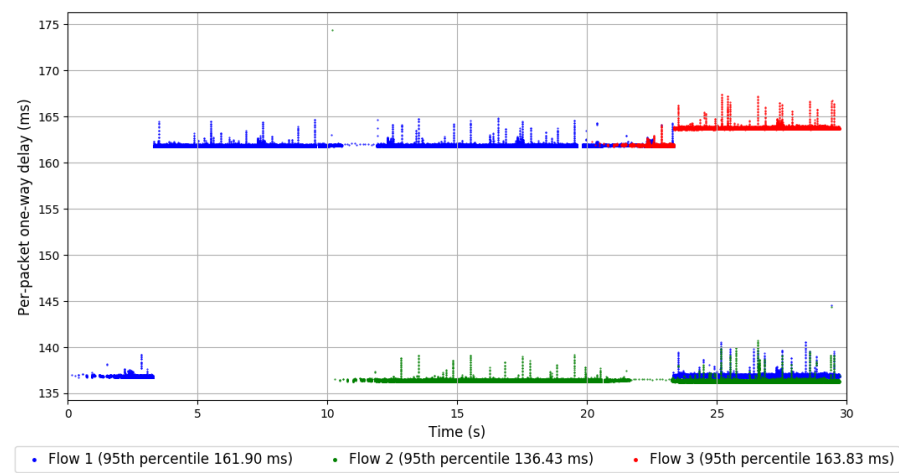
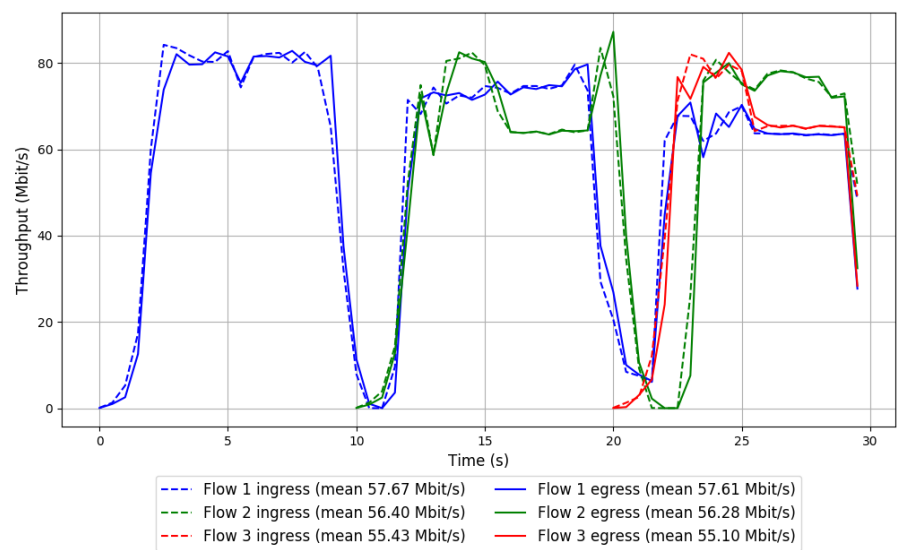
-- Flow 3:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 163.828 ms

Loss rate: 3.86%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-10 04:48:10

End at: 2018-01-10 04:48:40

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.98 Mbit/s

95th percentile per-packet one-way delay: 163.943 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 163.974 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 136.750 ms

Loss rate: 1.55%

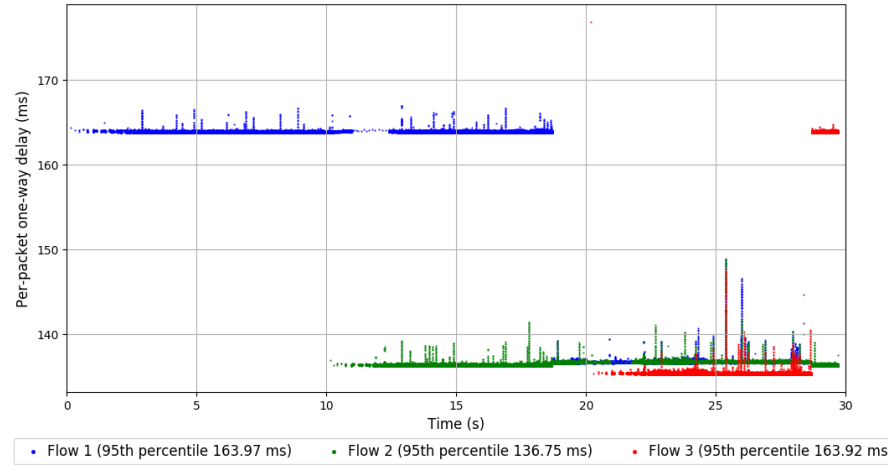
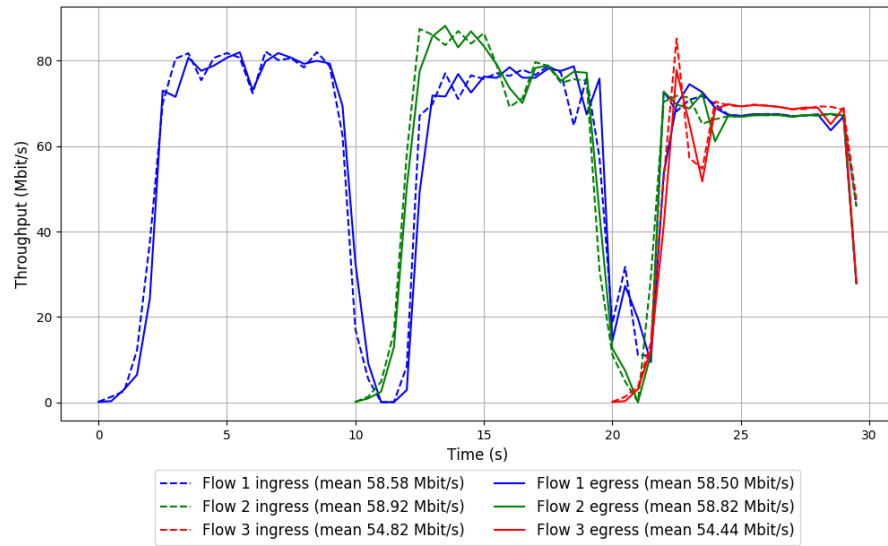
-- Flow 3:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 163.917 ms

Loss rate: 3.87%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-10 05:04:18

End at: 2018-01-10 05:04:48

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.92 Mbit/s

95th percentile per-packet one-way delay: 161.703 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 60.17 Mbit/s

95th percentile per-packet one-way delay: 136.860 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 62.48 Mbit/s

95th percentile per-packet one-way delay: 136.817 ms

Loss rate: 1.80%

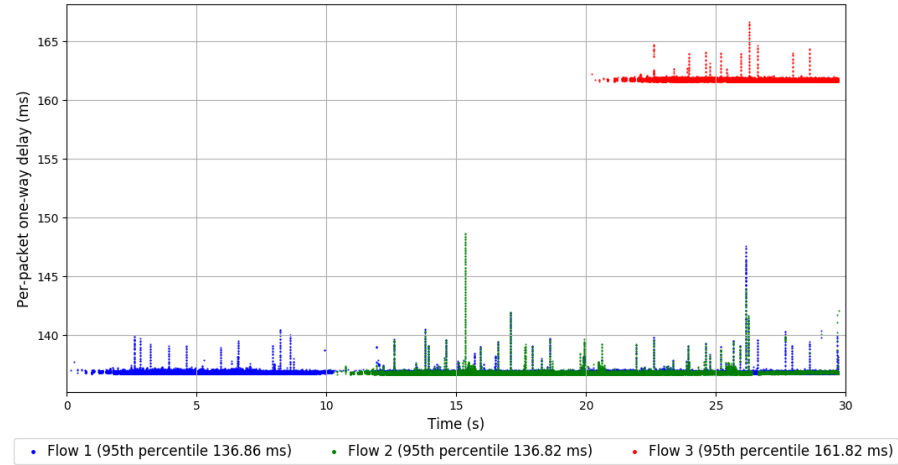
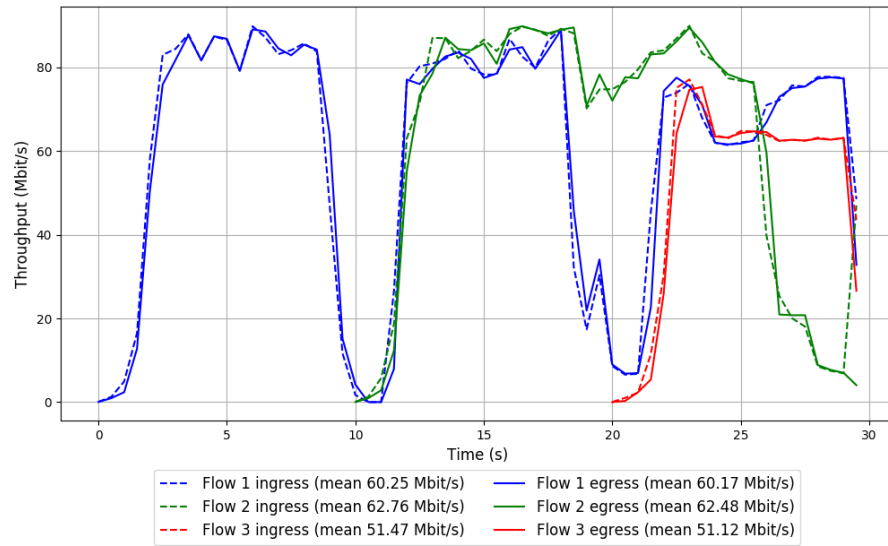
-- Flow 3:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 161.817 ms

Loss rate: 3.71%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-10 05:20:33

End at: 2018-01-10 05:21:03

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.06 Mbit/s

95th percentile per-packet one-way delay: 136.743 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 136.777 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 61.19 Mbit/s

95th percentile per-packet one-way delay: 136.294 ms

Loss rate: 0.38%

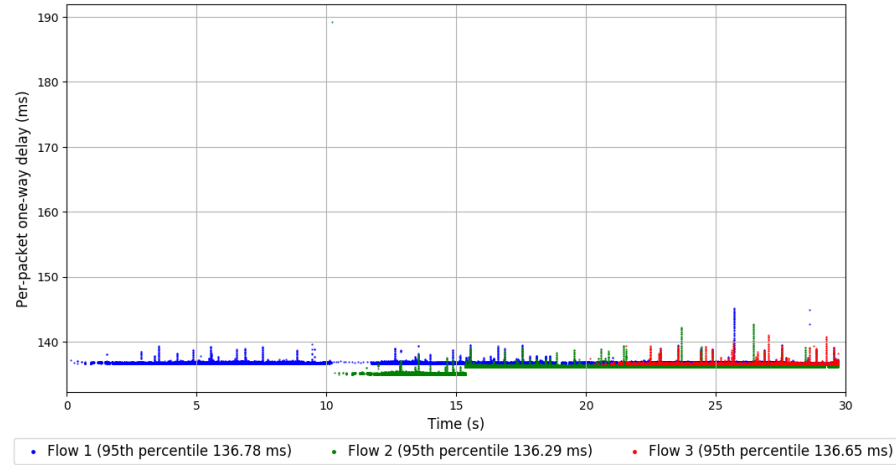
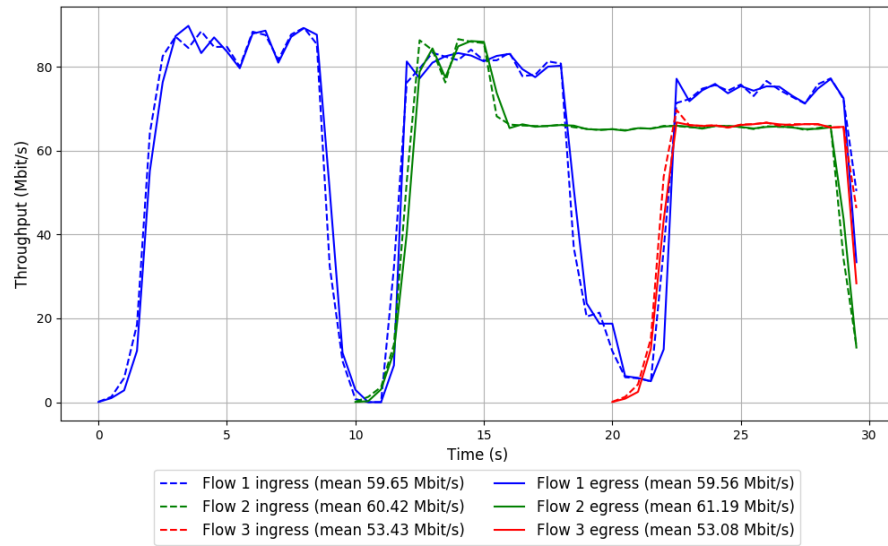
-- Flow 3:

Average throughput: 53.08 Mbit/s

95th percentile per-packet one-way delay: 136.651 ms

Loss rate: 3.42%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-10 05:36:41

End at: 2018-01-10 05:37:11

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.12 Mbit/s

95th percentile per-packet one-way delay: 137.055 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 61.42 Mbit/s

95th percentile per-packet one-way delay: 137.086 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 135.958 ms

Loss rate: 1.60%

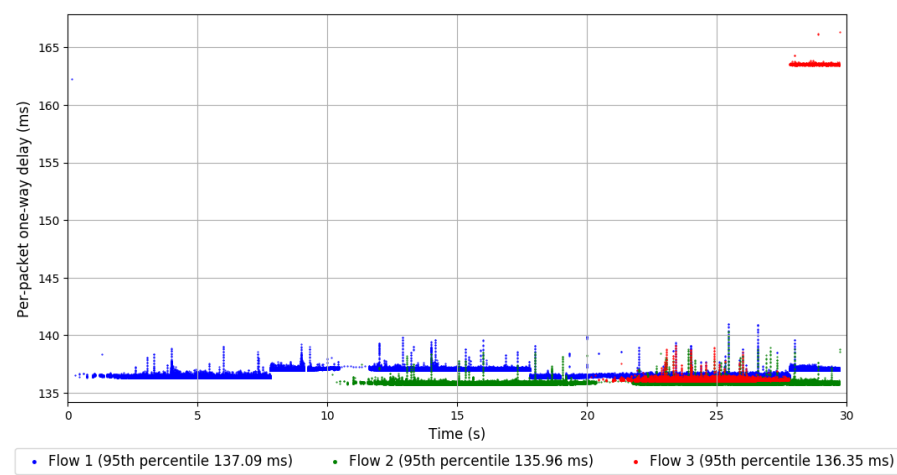
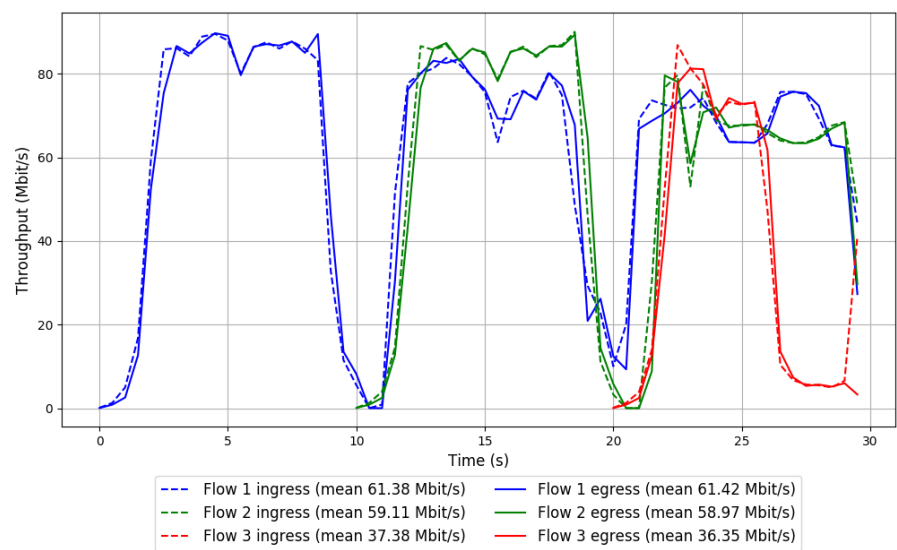
-- Flow 3:

Average throughput: 36.35 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 5.45%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-10 05:52:51

End at: 2018-01-10 05:53:21

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.81 Mbit/s

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

Loss rate: 1.15%

-- Flow 1:

Average throughput: 60.88 Mbit/s

95th percentile per-packet one-way delay: 136.025 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 163.813 ms

Loss rate: 0.14%

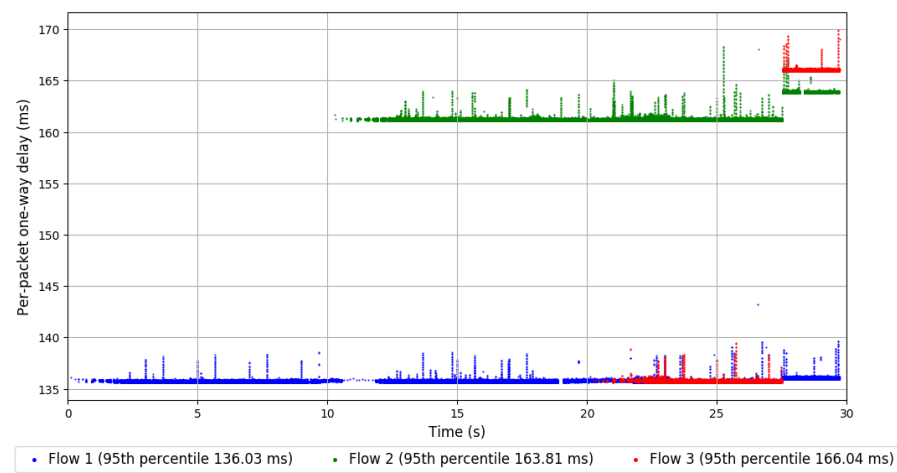
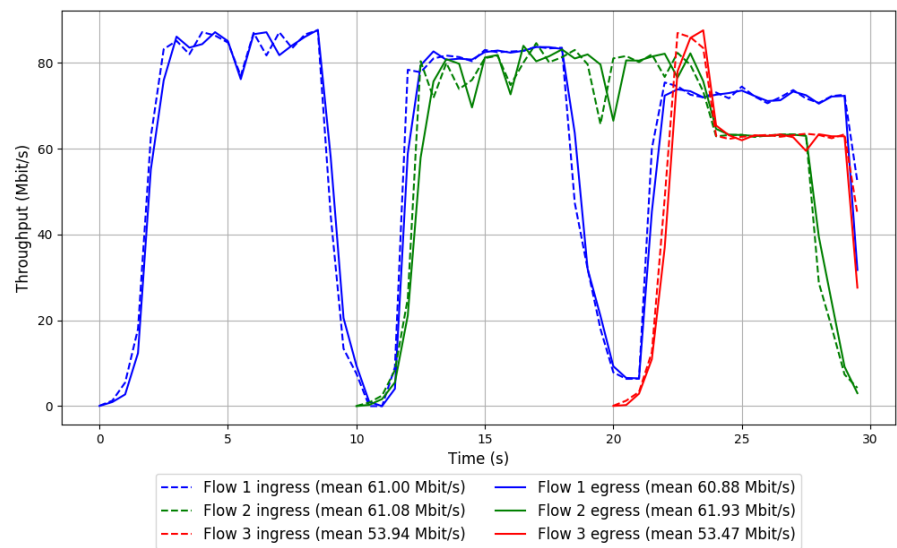
-- Flow 3:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 166.043 ms

Loss rate: 3.61%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-10 06:08:40

End at: 2018-01-10 06:09:10

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.20 Mbit/s

95th percentile per-packet one-way delay: 163.990 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 161.731 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 164.053 ms

Loss rate: 1.54%

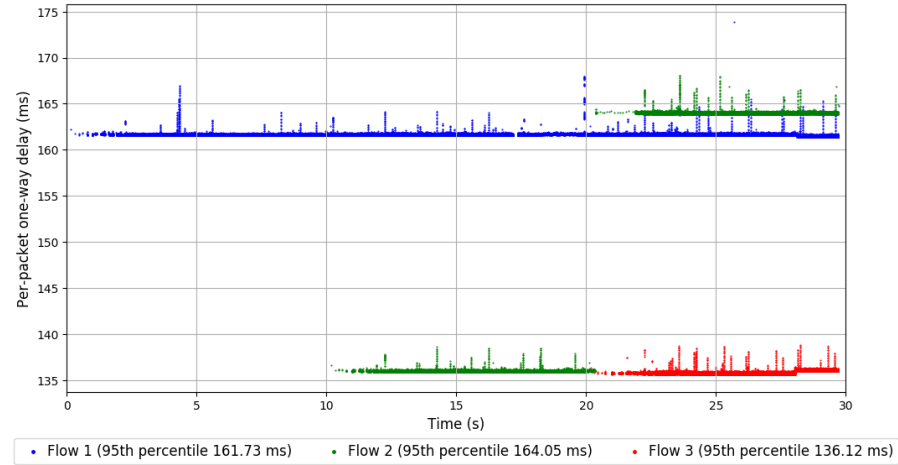
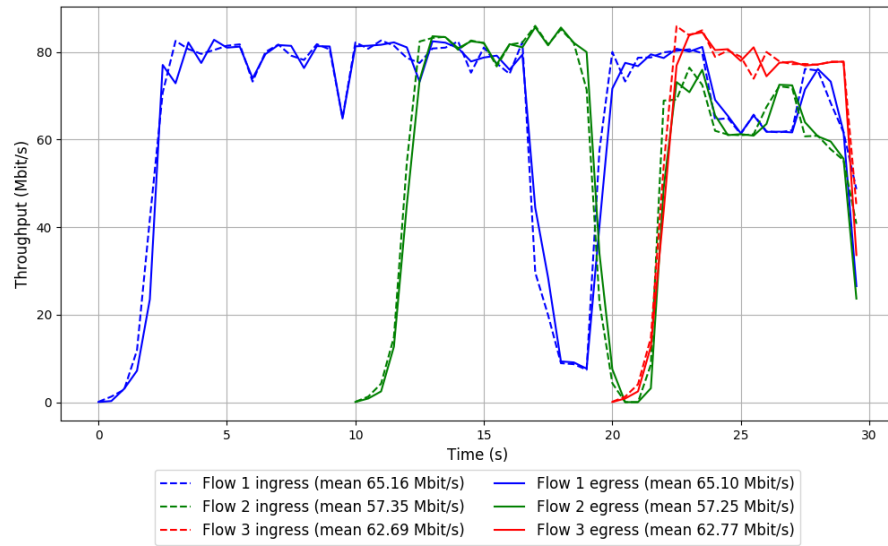
-- Flow 3:

Average throughput: 62.77 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 2.64%

Run 9: Report of QUIC Cubic — Data Link

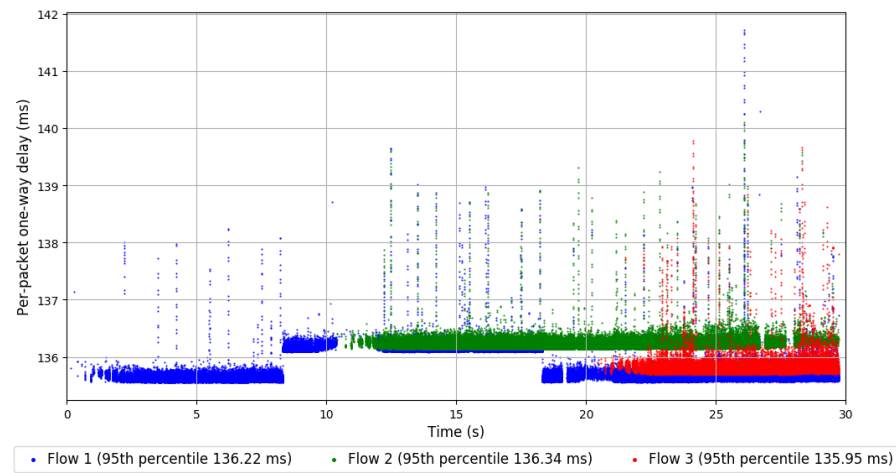
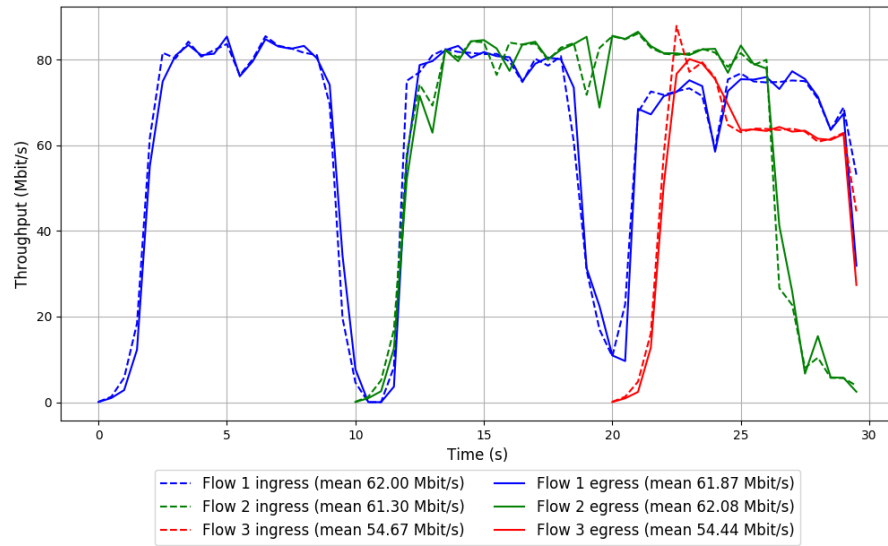


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-10 06:24:33
End at: 2018-01-10 06:25:03

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.56 Mbit/s
95th percentile per-packet one-way delay: 136.289 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 61.87 Mbit/s
95th percentile per-packet one-way delay: 136.221 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 62.08 Mbit/s
95th percentile per-packet one-way delay: 136.337 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 54.44 Mbit/s
95th percentile per-packet one-way delay: 135.954 ms
Loss rate: 3.19%
```

Run 10: Report of QUIC Cubic — Data Link

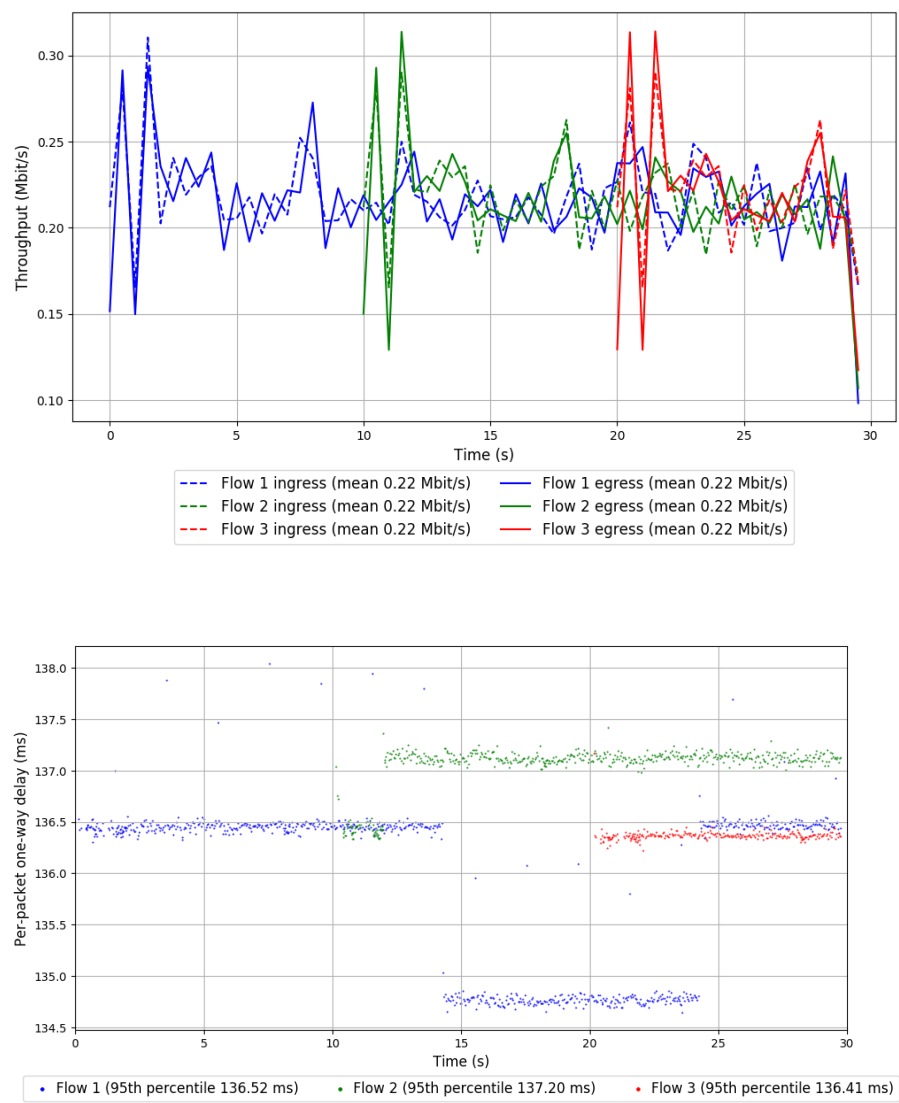


```
Run 1: Statistics of SCReAM

Start at: 2018-01-10 03:54:07
End at: 2018-01-10 03:54:37

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.170 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.516 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.199 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.414 ms
Loss rate: 2.63%
```

Run 1: Report of SReAM — Data Link

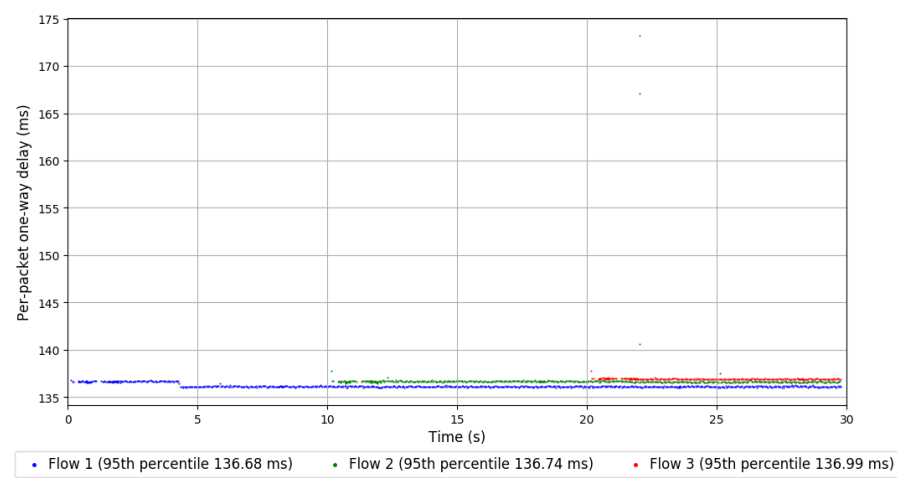
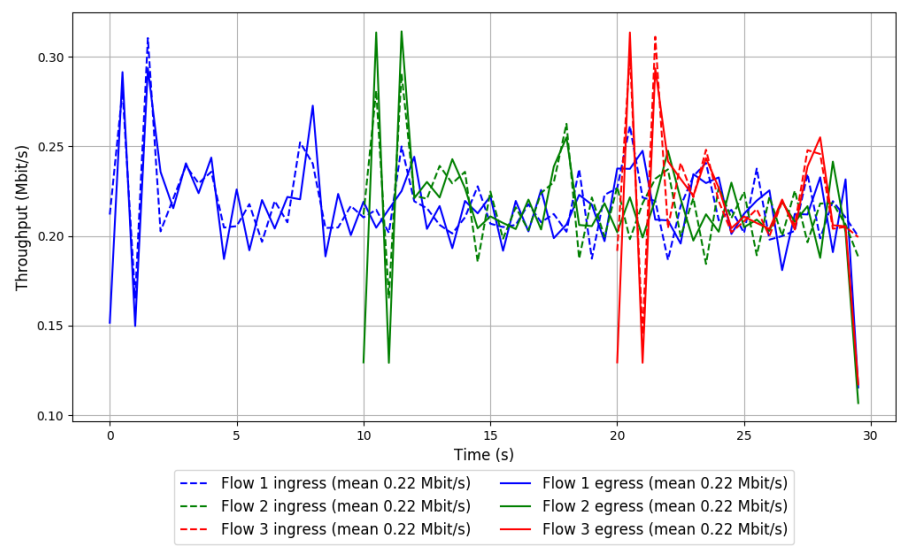


```
Run 2: Statistics of SCReAM

Start at: 2018-01-10 04:10:07
End at: 2018-01-10 04:10:37

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.935 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.681 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.736 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.992 ms
Loss rate: 2.97%
```

Run 2: Report of SReAM — Data Link

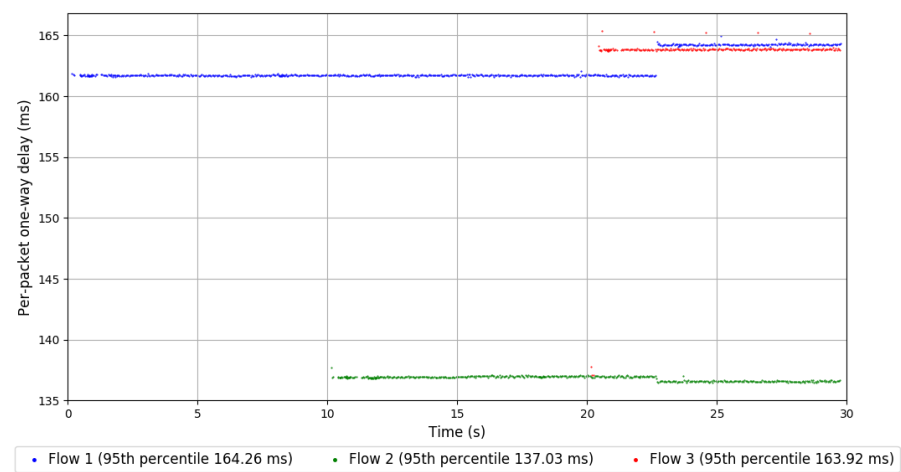
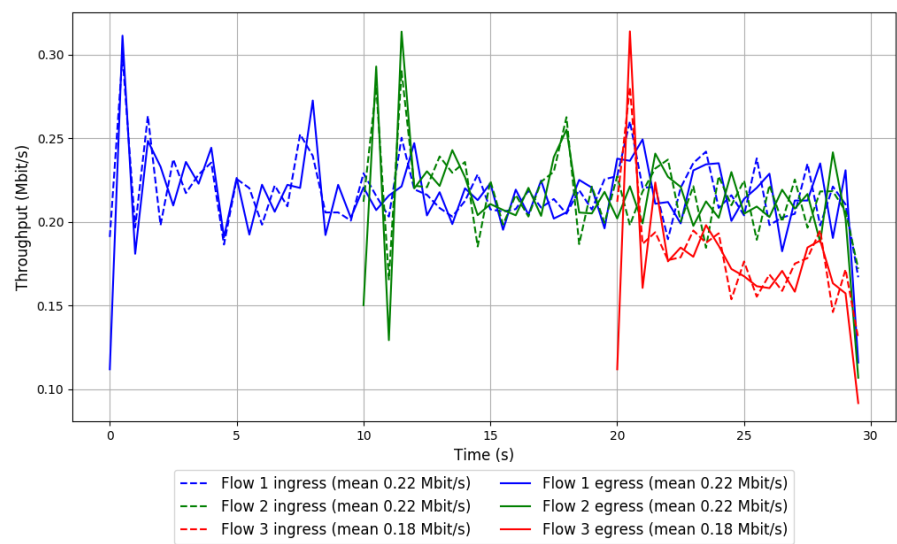


```
Run 3: Statistics of SCReAM

Start at: 2018-01-10 04:24:18
End at: 2018-01-10 04:24:48

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 164.238 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 164.264 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.033 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.916 ms
Loss rate: 2.88%
```


Run 3: Report of SReAM — Data Link

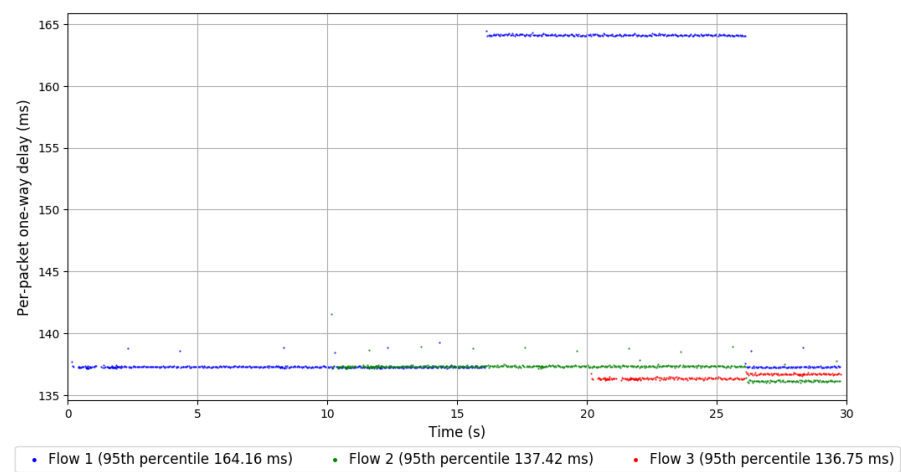
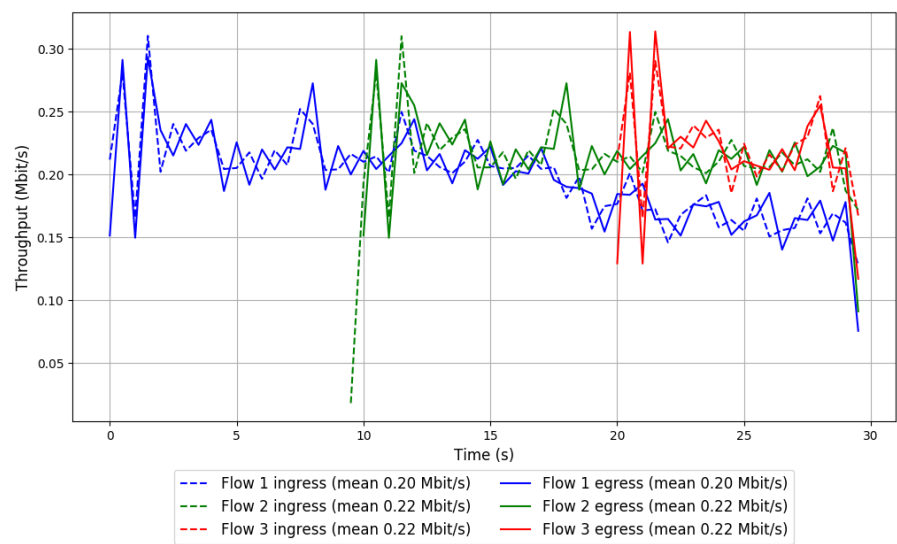


```
Run 4: Statistics of SReAM

Start at: 2018-01-10 04:40:12
End at: 2018-01-10 04:40:42

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 164.134 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 164.162 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.416 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.754 ms
Loss rate: 2.63%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-10 04:56:09

End at: 2018-01-10 04:56:39

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 164.273 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 161.908 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 164.304 ms

Loss rate: 1.45%

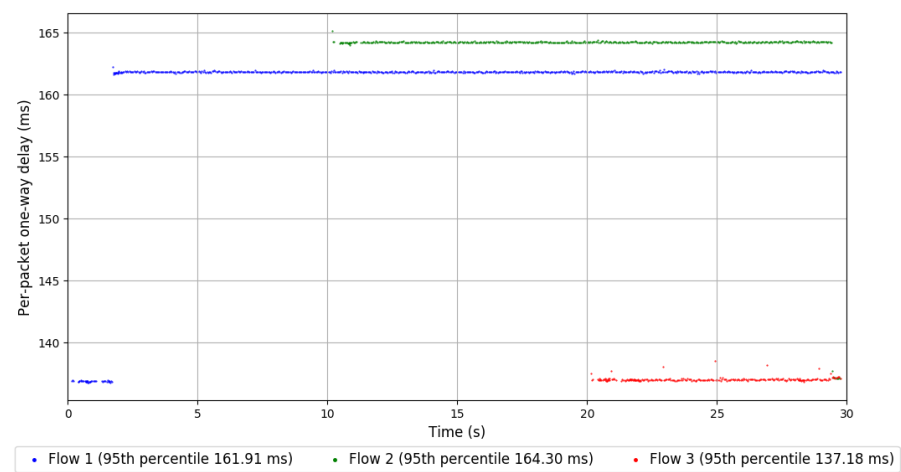
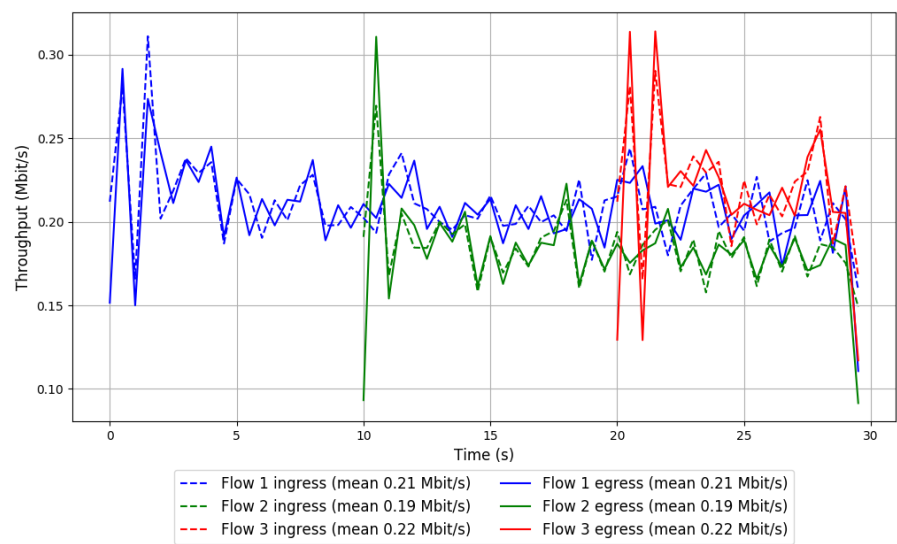
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.183 ms

Loss rate: 2.63%

Run 5: Report of SReAM — Data Link

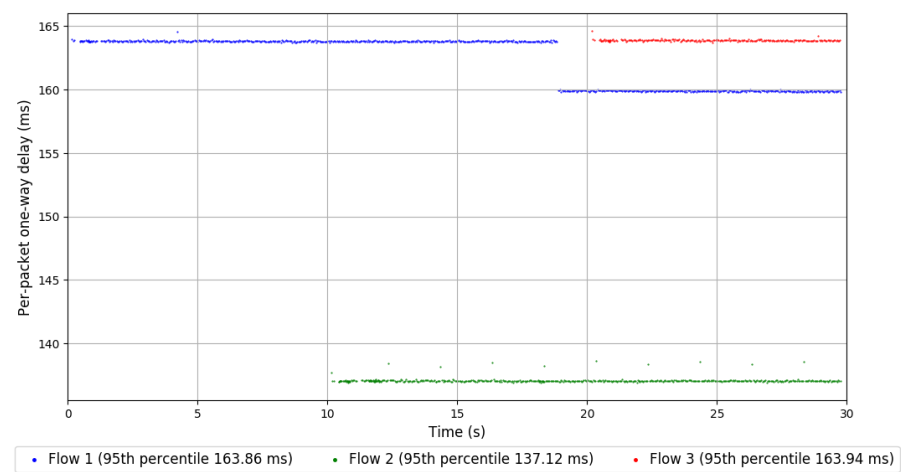
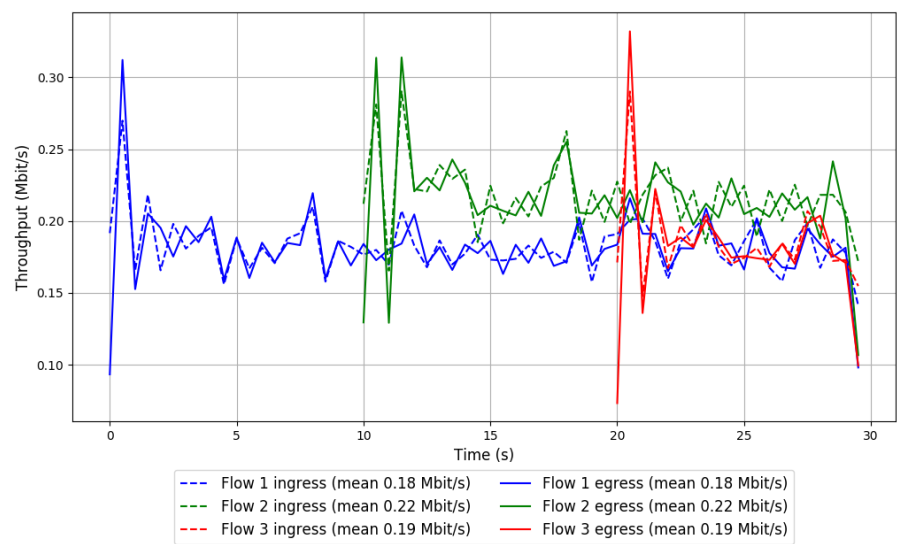


```
Run 6: Statistics of SCReAM

Start at: 2018-01-10 05:12:40
End at: 2018-01-10 05:13:10

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 163.887 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.856 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.117 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.943 ms
Loss rate: 3.02%
```

Run 6: Report of SCRaM — Data Link

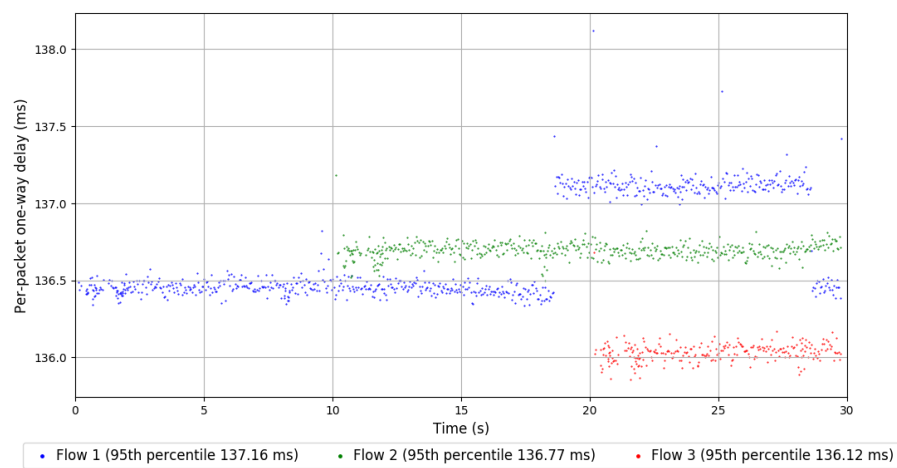
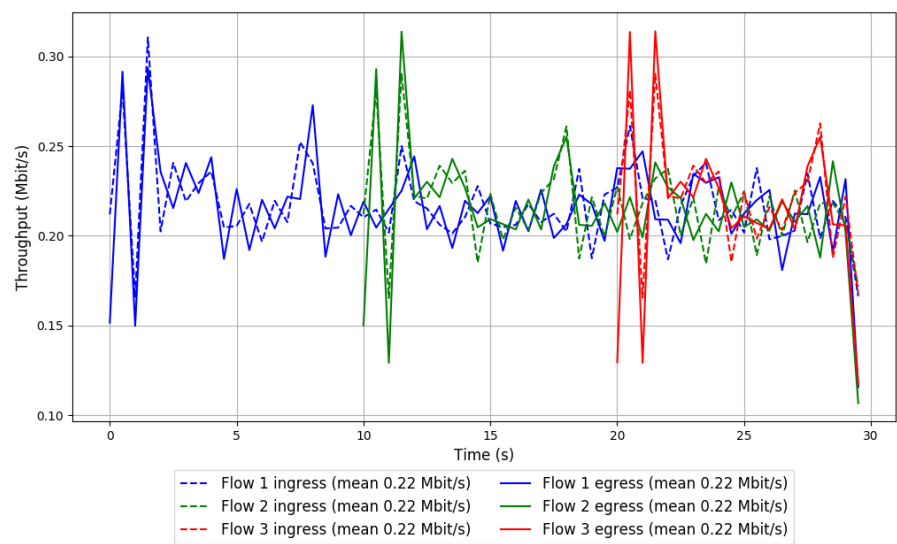


```
Run 7: Statistics of SReAM

Start at: 2018-01-10 05:28:40
End at: 2018-01-10 05:29:10

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.137 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.165 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.766 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.122 ms
Loss rate: 2.64%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-10 05:44:45

End at: 2018-01-10 05:45:15

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.131 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.163 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.553 ms

Loss rate: 1.42%

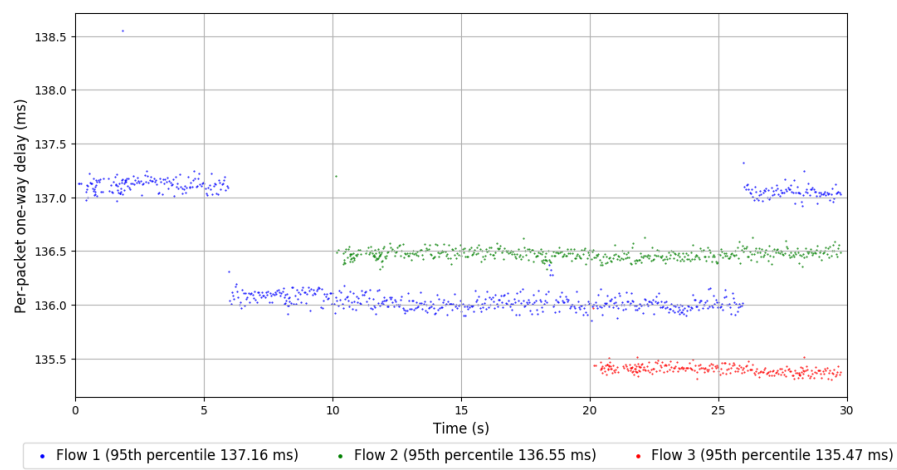
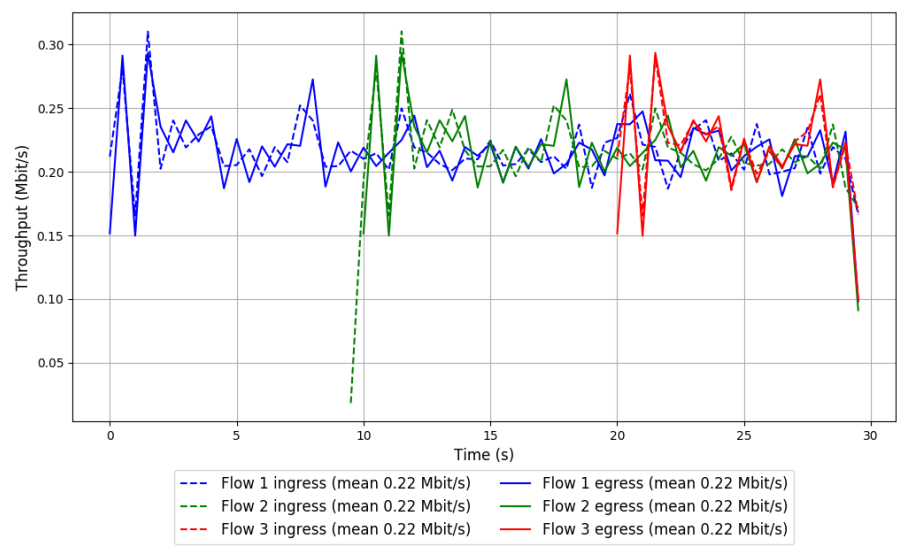
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.466 ms

Loss rate: 2.63%

Run 8: Report of SReAM — Data Link

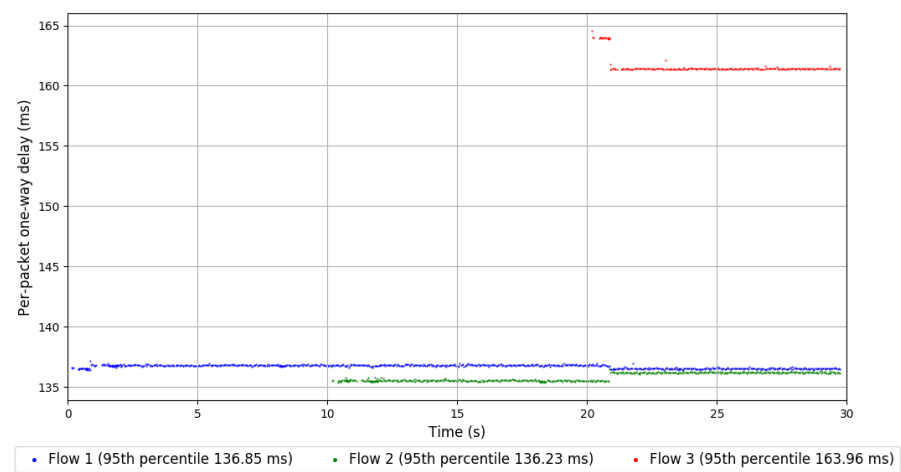
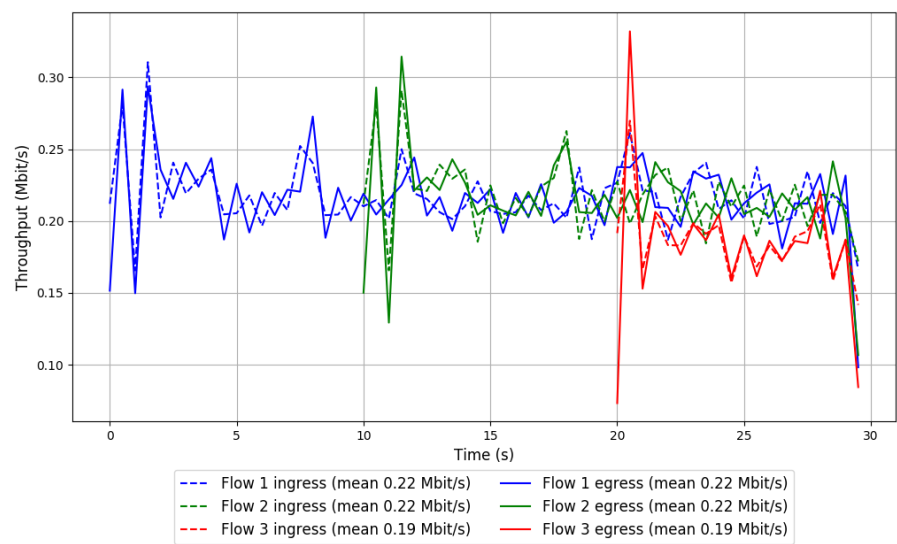


```
Run 9: Statistics of SReAM

Start at: 2018-01-10 06:00:48
End at: 2018-01-10 06:01:18

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 161.417 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.847 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.229 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.956 ms
Loss rate: 3.02%
```

Run 9: Report of SReAM — Data Link

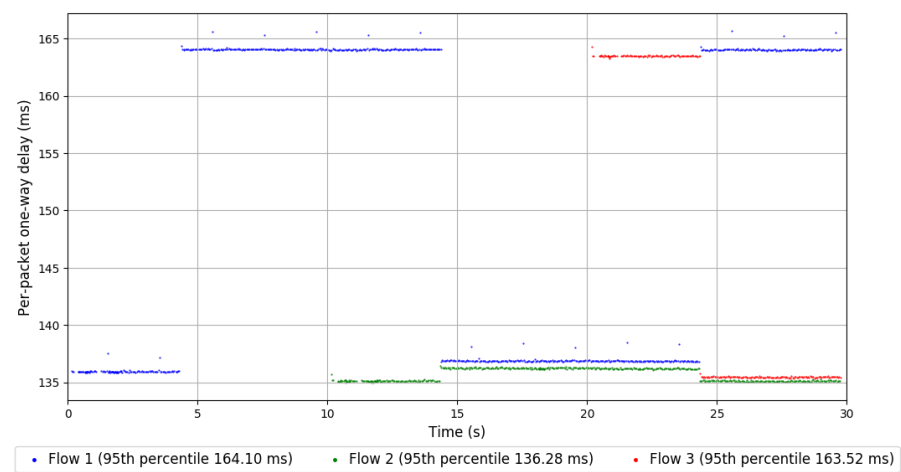
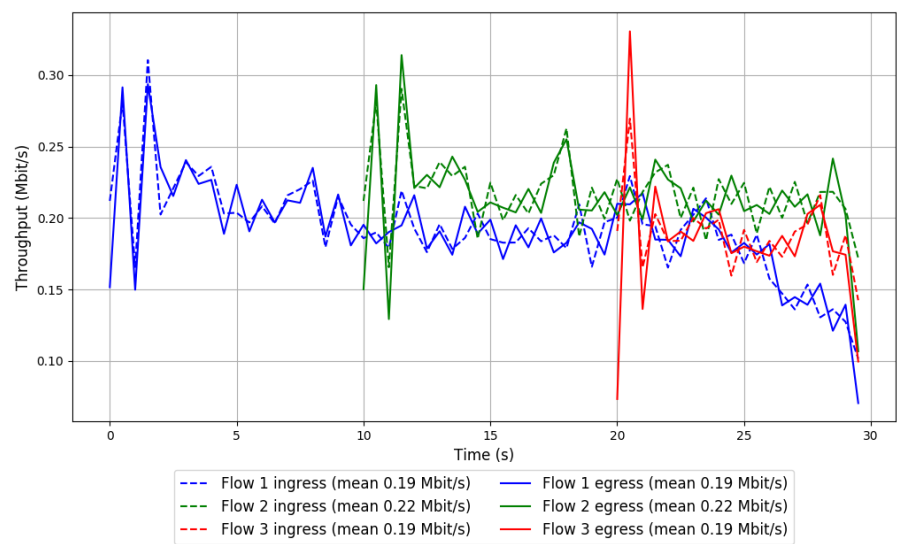


```
Run 10: Statistics of SCReAM

Start at: 2018-01-10 06:16:17
End at: 2018-01-10 06:16:47

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 164.077 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.097 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.277 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.520 ms
Loss rate: 2.63%
```

Run 10: Report of SCReAM — Data Link

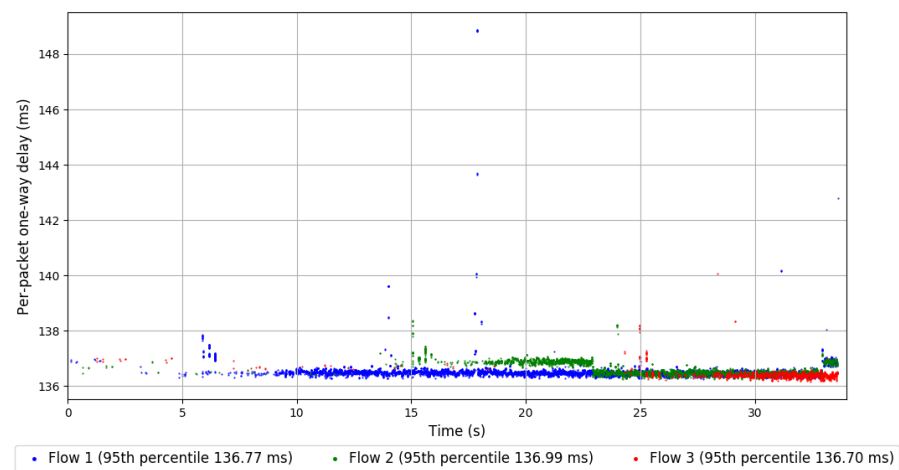
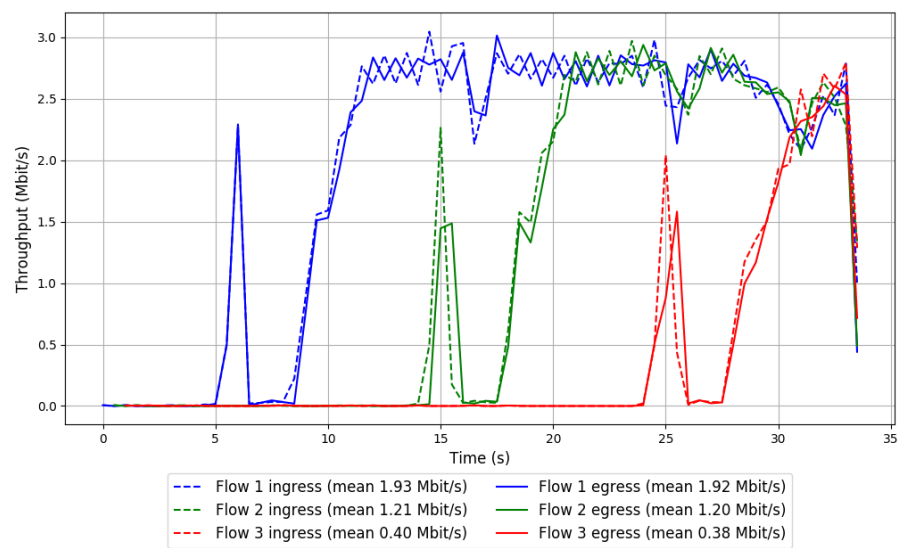


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-10 03:56:59
End at: 2018-01-10 03:57:29

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 136.953 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 136.773 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 136.985 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.697 ms
Loss rate: 5.92%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-10 04:12:49

End at: 2018-01-10 04:13:19

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 163.936 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 136.185 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 164.002 ms

Loss rate: 2.29%

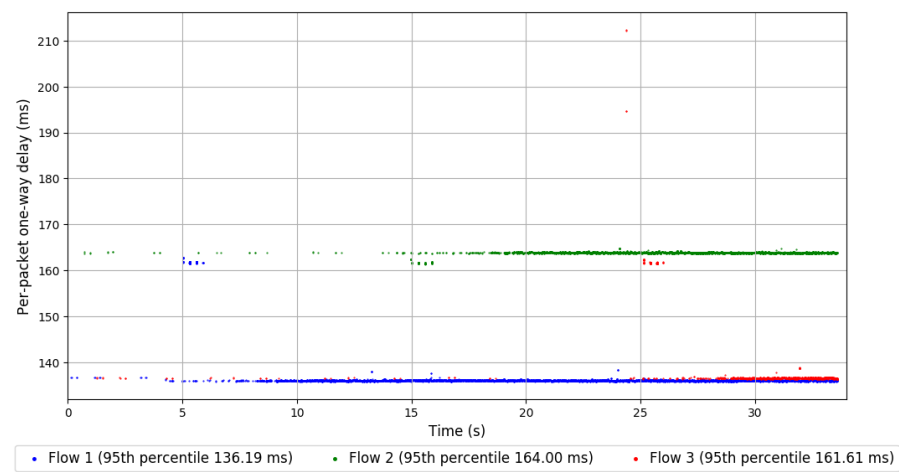
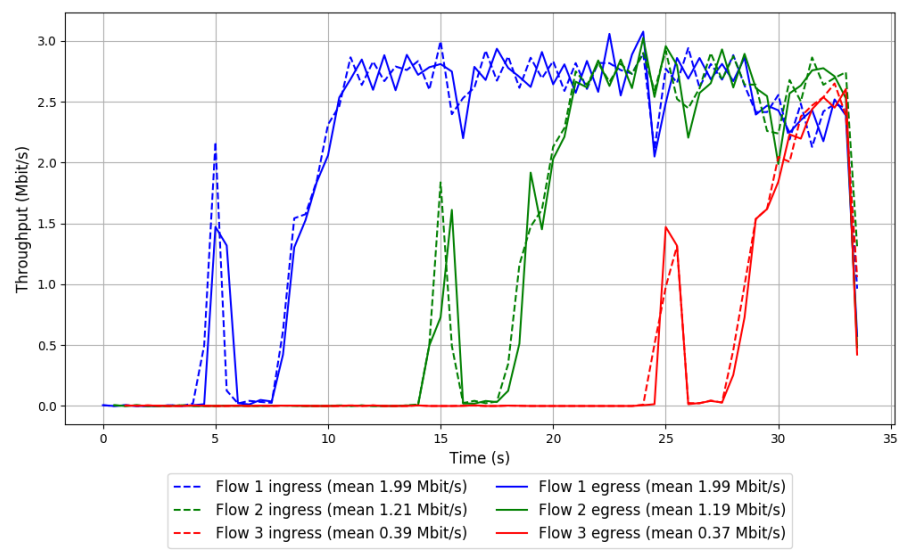
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 161.608 ms

Loss rate: 5.14%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-10 04:27:11

End at: 2018-01-10 04:27:41

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 161.969 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 161.996 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 137.417 ms

Loss rate: 1.84%

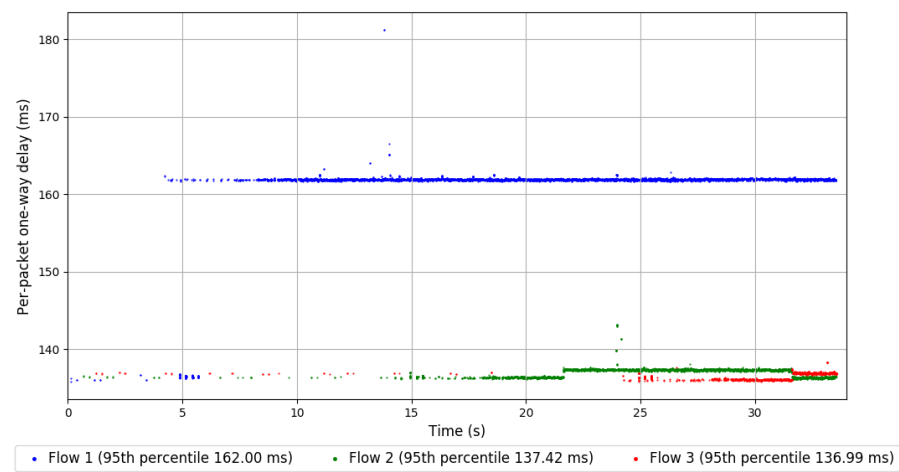
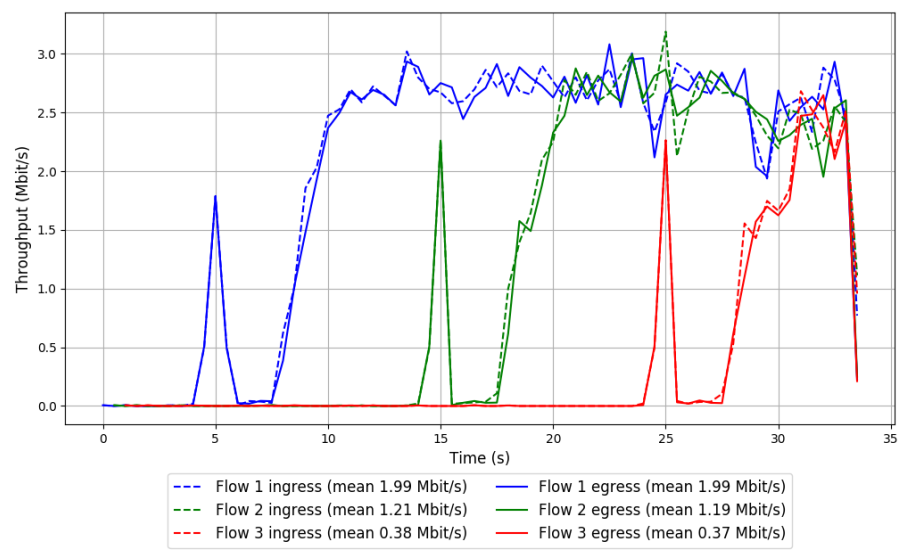
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.994 ms

Loss rate: 5.42%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-10 04:43:05

End at: 2018-01-10 04:43:35

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 164.285 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 136.981 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 164.382 ms

Loss rate: 2.11%

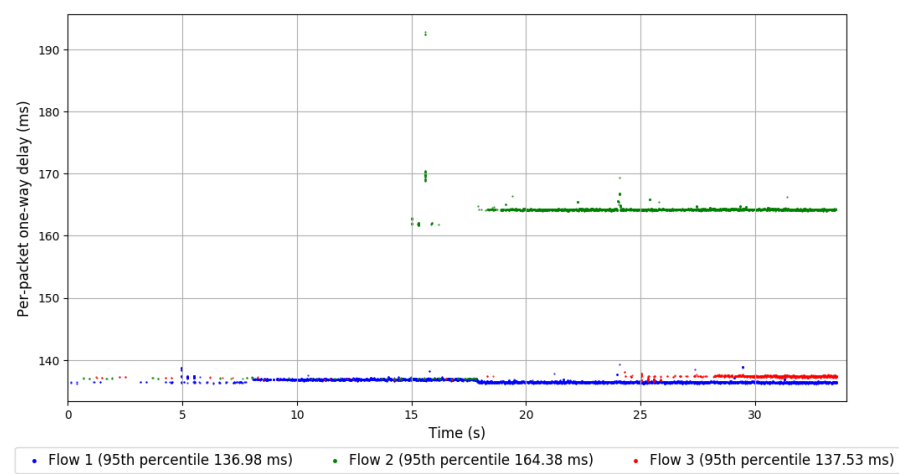
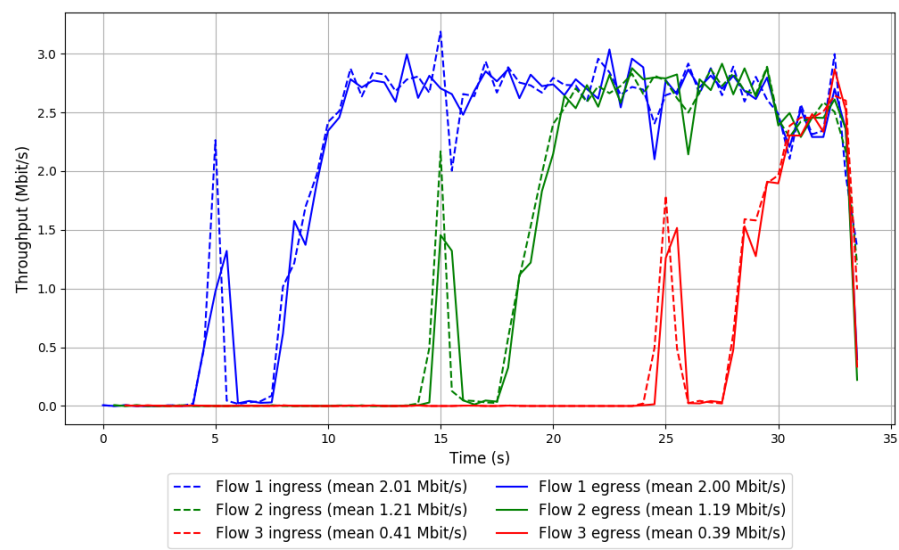
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.528 ms

Loss rate: 5.45%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-10 04:59:04

End at: 2018-01-10 04:59:34

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 163.817 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 163.828 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 160.020 ms

Loss rate: 1.98%

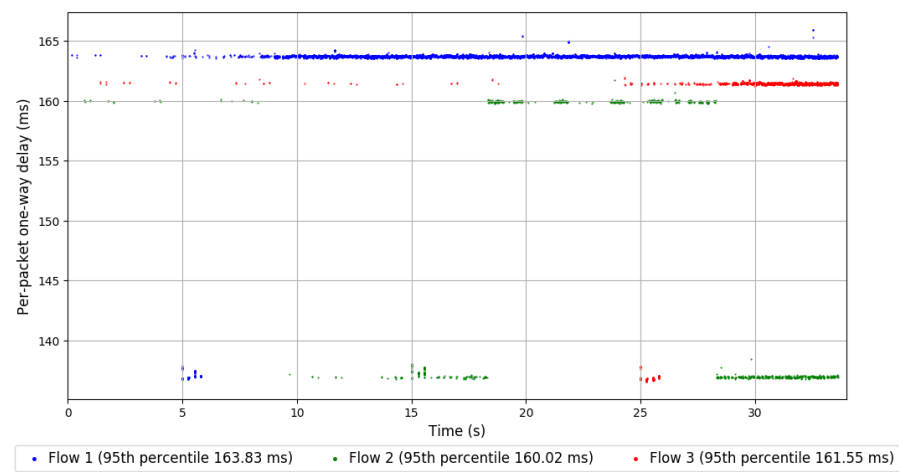
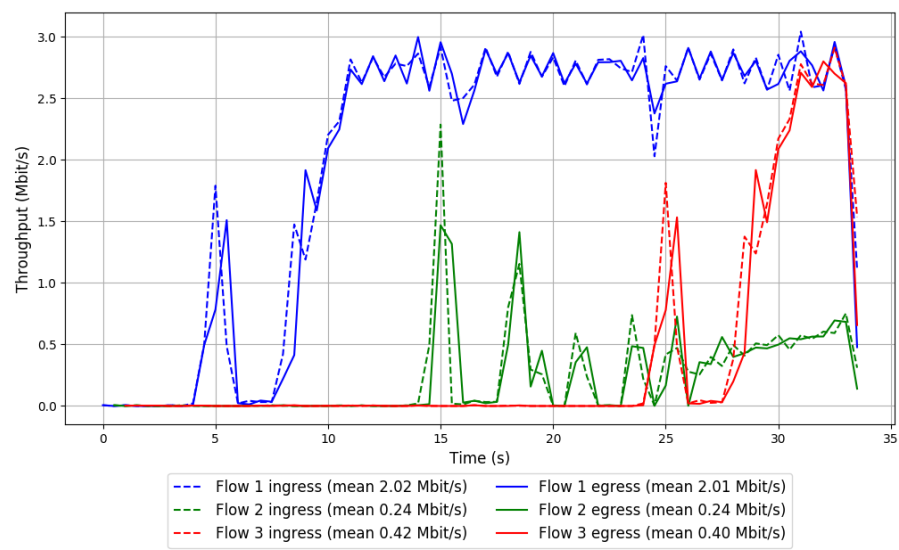
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 161.553 ms

Loss rate: 6.48%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-10 05:15:33

End at: 2018-01-10 05:16:03

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 161.883 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 161.854 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 137.336 ms

Loss rate: 1.59%

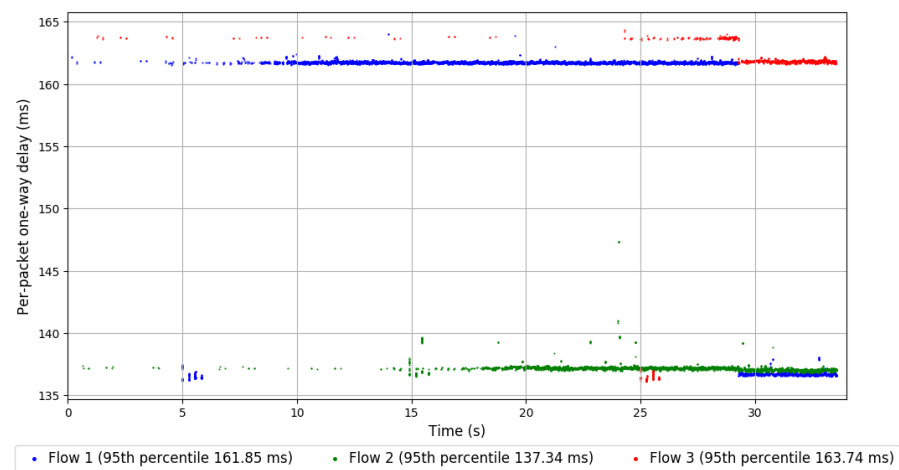
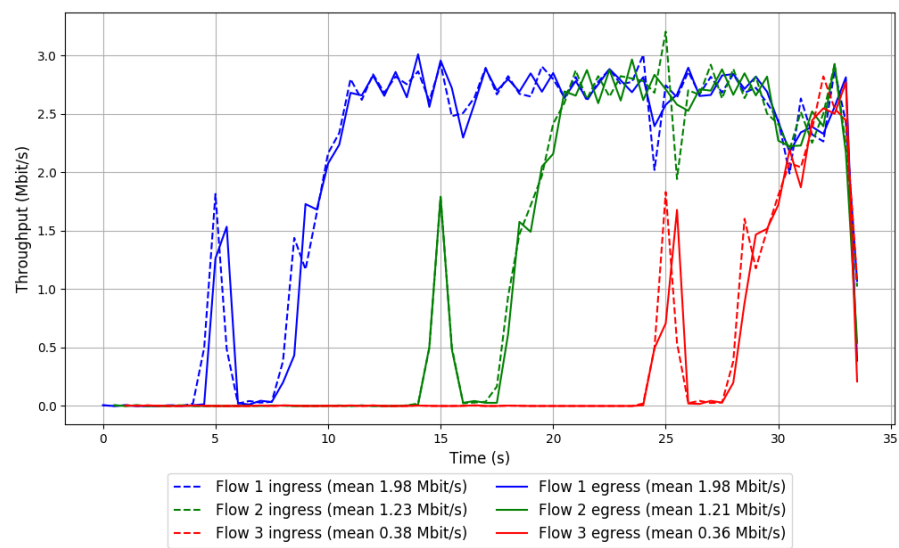
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 163.742 ms

Loss rate: 6.19%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-10 05:31:35

End at: 2018-01-10 05:32:05

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 163.772 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.042 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 163.827 ms

Loss rate: 2.40%

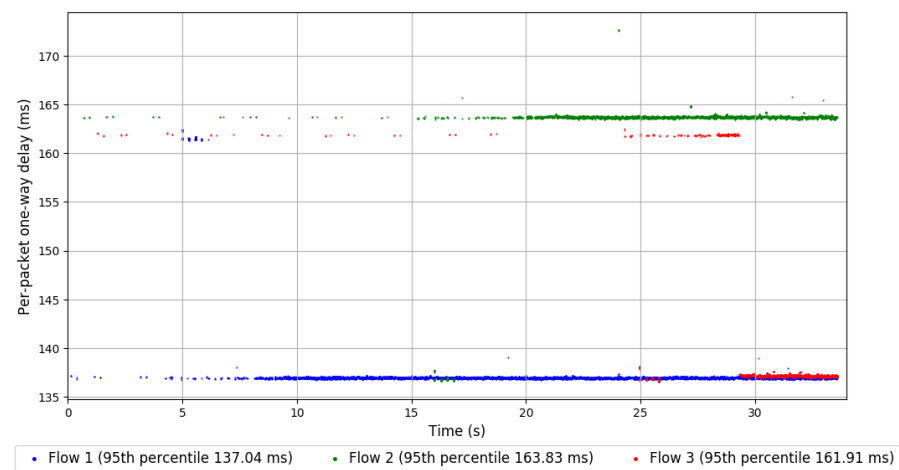
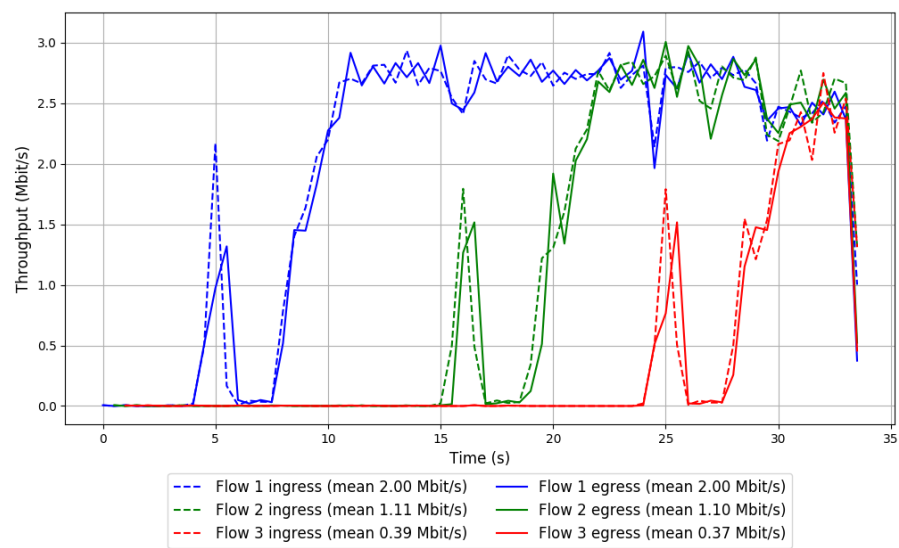
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 161.907 ms

Loss rate: 6.12%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-10 05:47:38

End at: 2018-01-10 05:48:08

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.116 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 2.00 Mbit/s

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

Loss rate: 1.20%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 137.168 ms

Loss rate: 1.84%

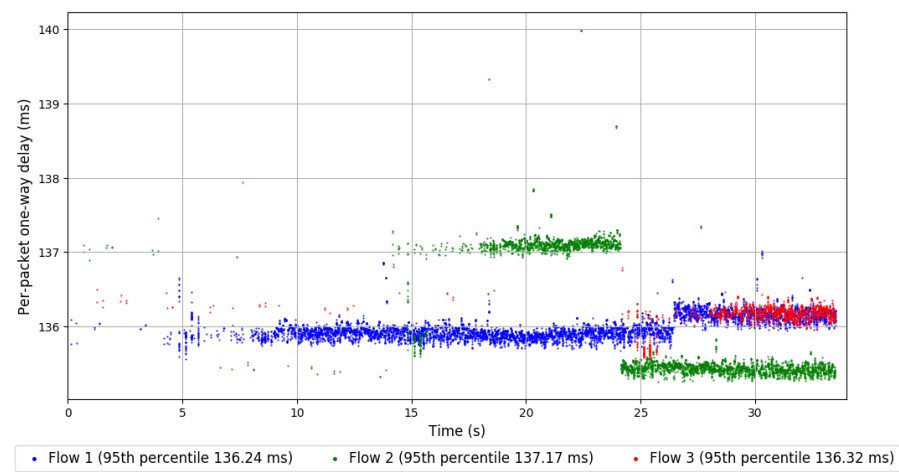
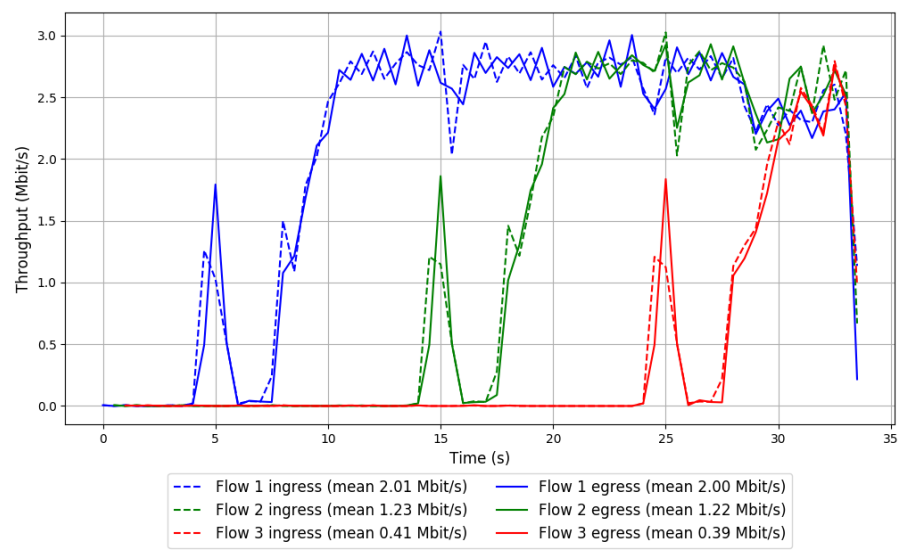
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.320 ms

Loss rate: 6.33%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-10 06:03:46

End at: 2018-01-10 06:04:16

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 161.756 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 161.806 ms

Loss rate: 2.00%

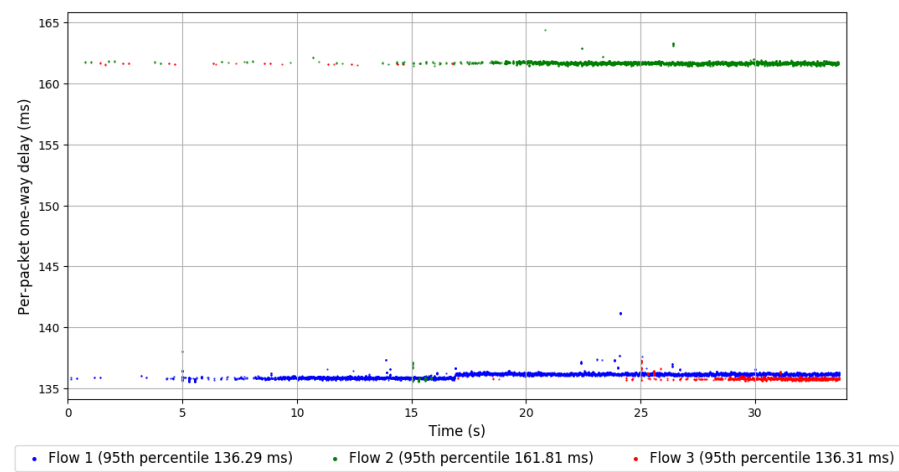
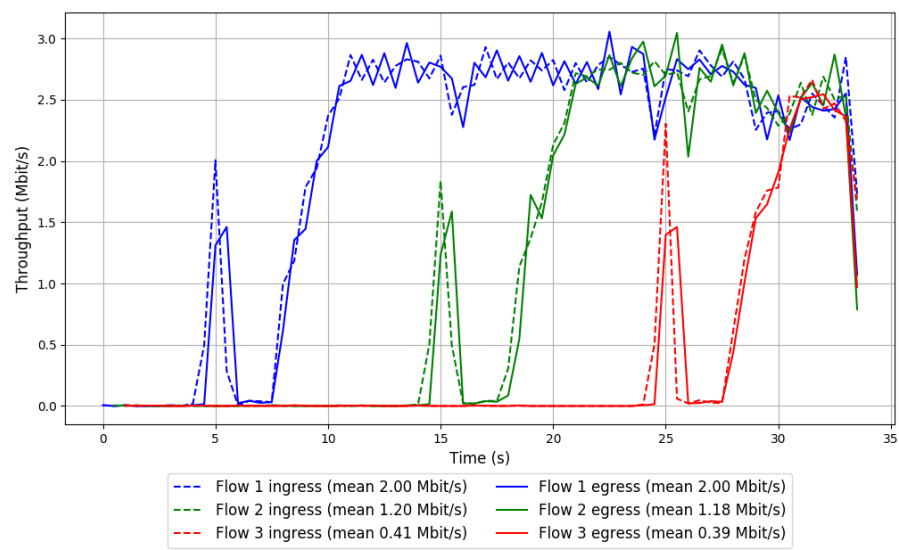
-- Flow 3:

Average throughput: 0.39 Mbit/s

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

Loss rate: 5.43%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-10 06:19:16

End at: 2018-01-10 06:19:46

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 163.530 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 163.561 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 1.21 Mbit/s

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

Loss rate: 1.82%

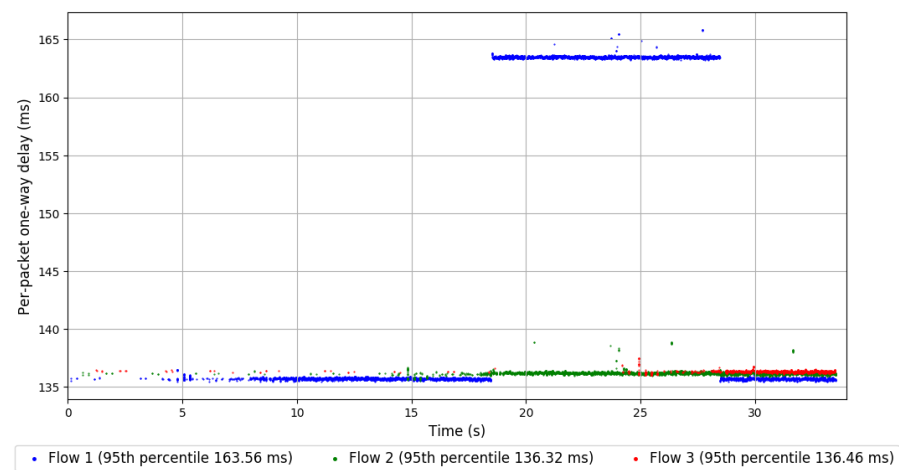
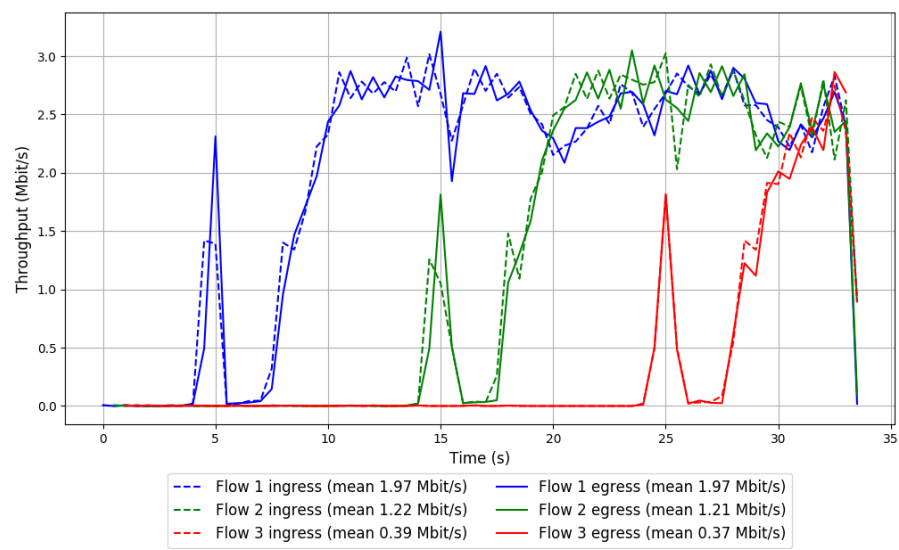
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.462 ms

Loss rate: 5.33%

Run 10: Report of WebRTC media — Data Link

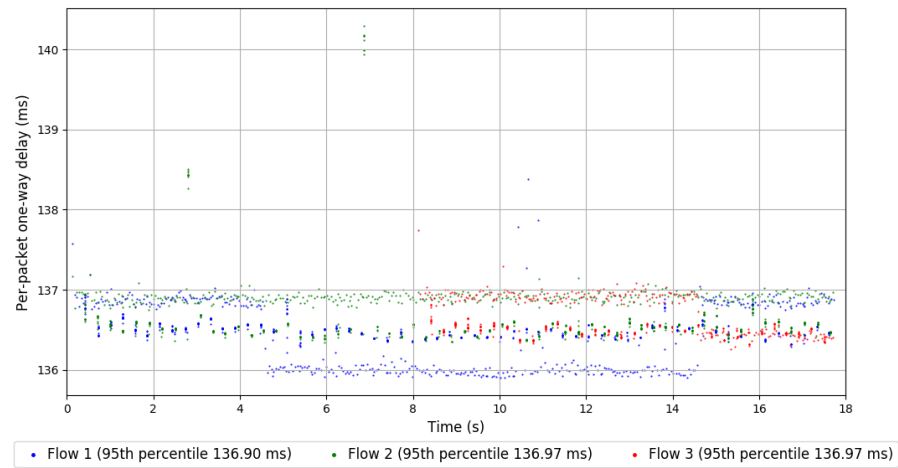
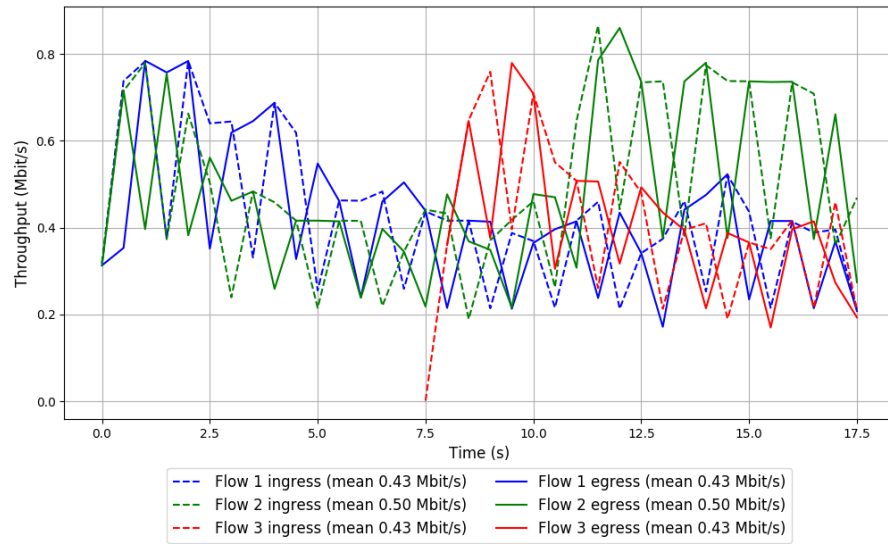


Run 1: Statistics of Sprout

Start at: 2018-01-10 04:02:52

End at: 2018-01-10 04:03:22

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-10 04:18:32

End at: 2018-01-10 04:19:02

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 162.136 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 161.999 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 162.183 ms

Loss rate: 1.79%

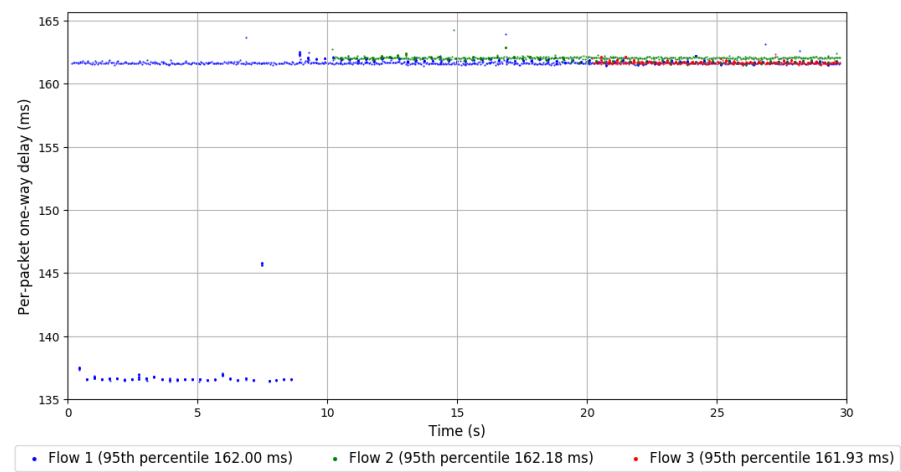
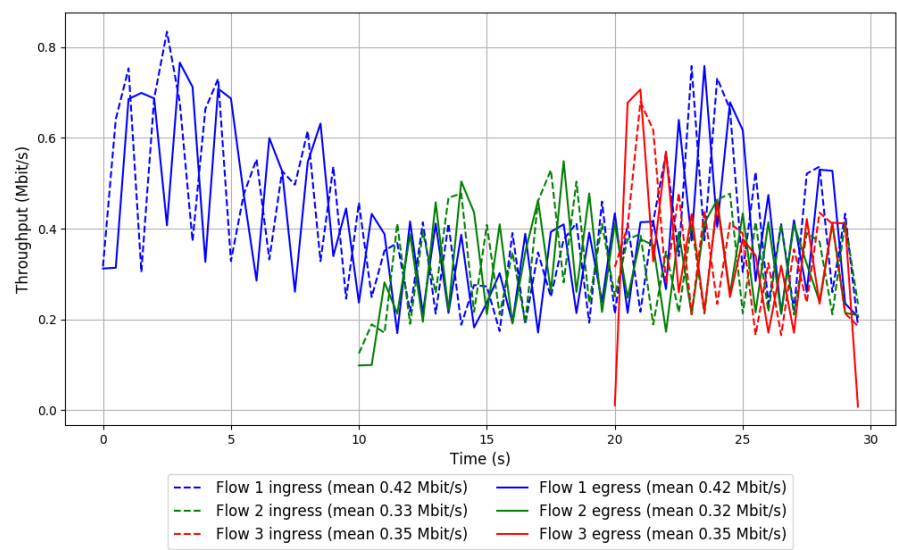
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 161.926 ms

Loss rate: 2.62%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-10 04:33:13

End at: 2018-01-10 04:33:43

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 164.015 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 161.804 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 161.995 ms

Loss rate: 1.99%

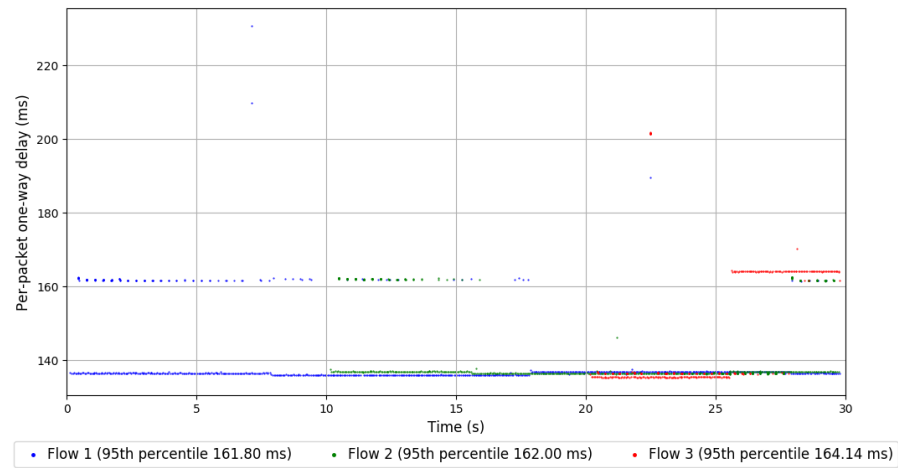
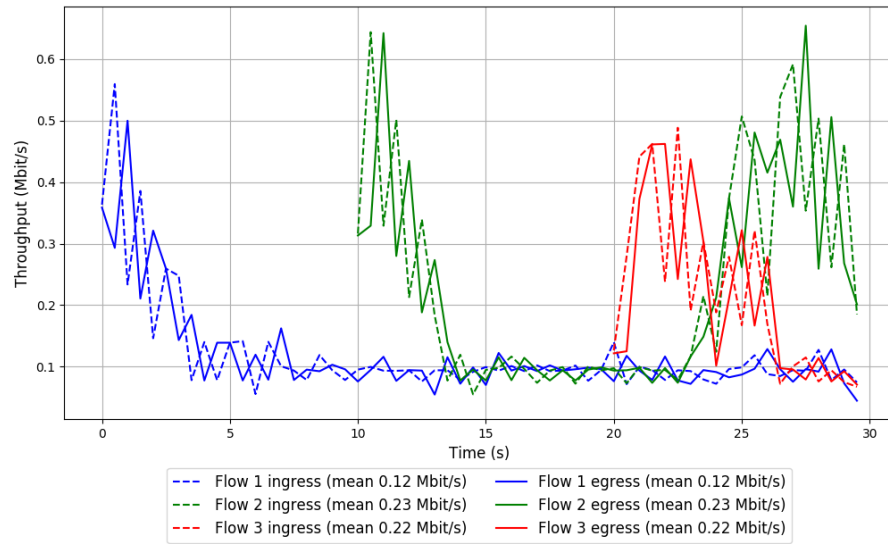
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 164.140 ms

Loss rate: 0.56%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-10 04:49:09

End at: 2018-01-10 04:49:39

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 162.121 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 0.18 Mbit/s

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

Loss rate: 2.11%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.121 ms

Loss rate: 1.85%

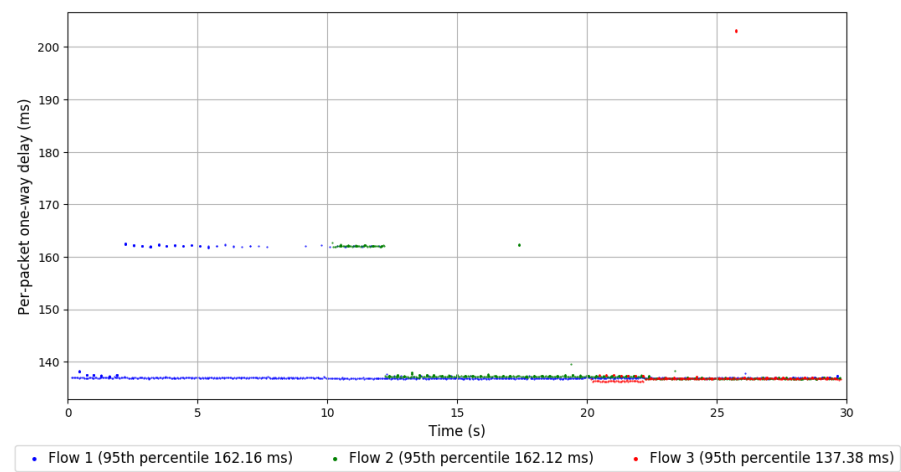
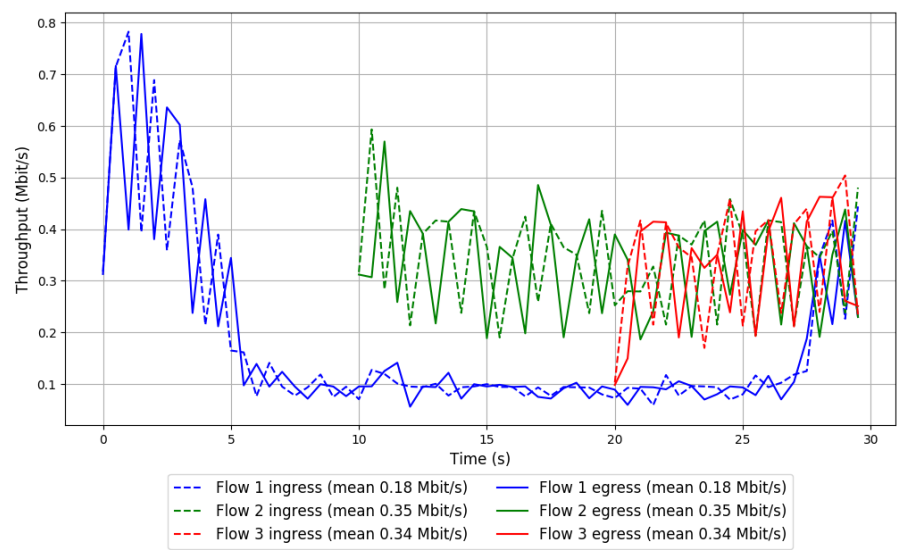
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 137.377 ms

Loss rate: 3.41%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-10 05:05:16

End at: 2018-01-10 05:05:46

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 163.771 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.721 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 163.802 ms

Loss rate: 0.99%

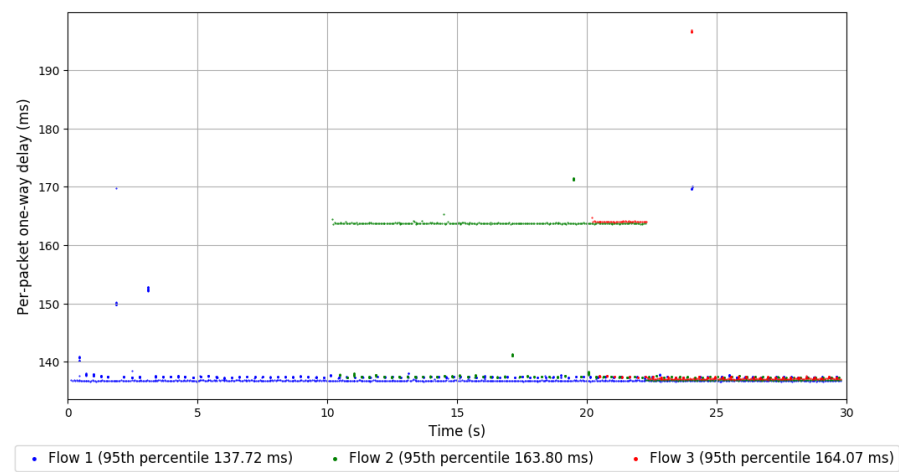
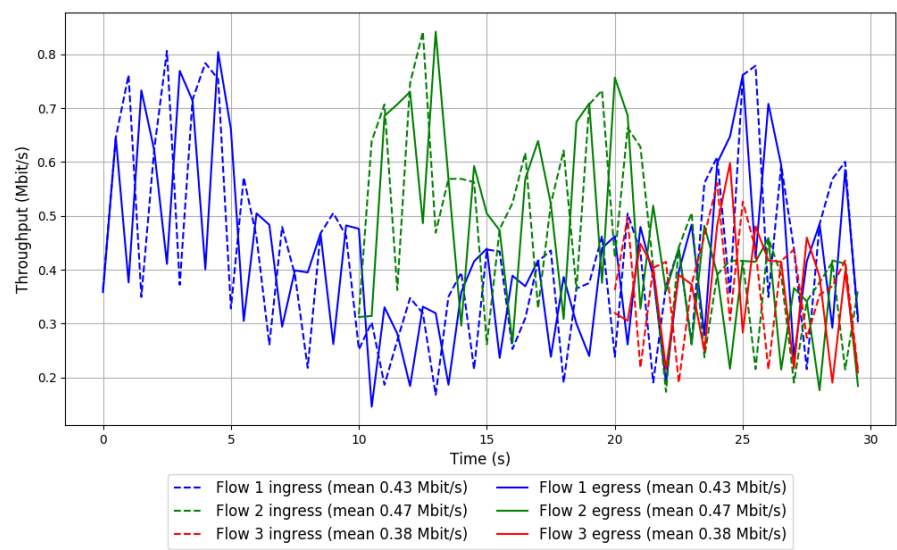
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 164.067 ms

Loss rate: 2.80%

Run 5: Report of Sprout — Data Link

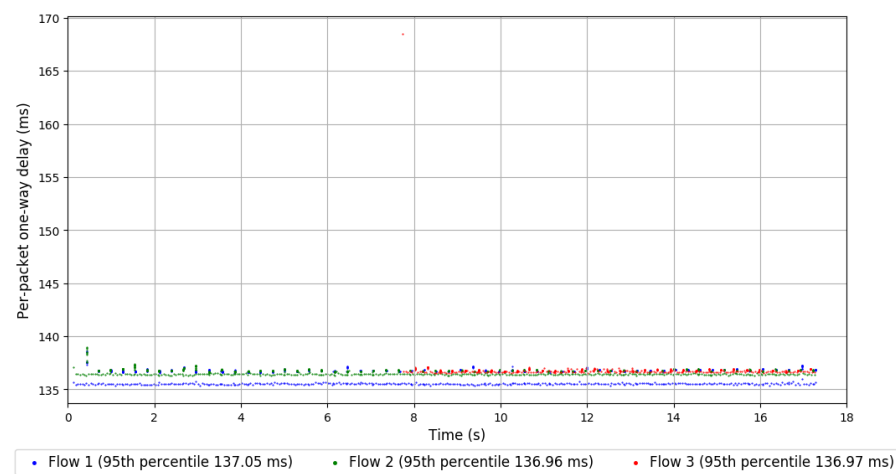
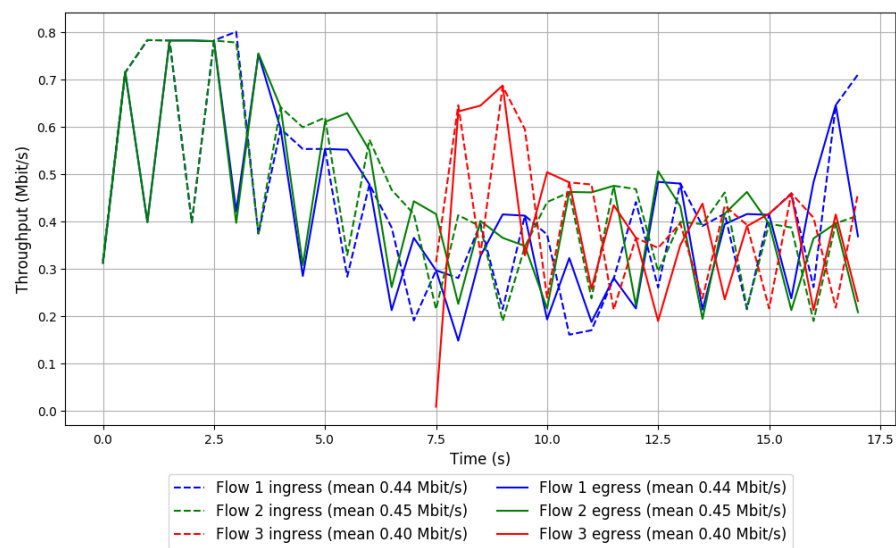


Run 6: Statistics of Sprout

Start at: 2018-01-10 05:21:30

End at: 2018-01-10 05:22:00

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-10 05:37:38

End at: 2018-01-10 05:38:08

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 161.855 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 161.880 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 145.036 ms

Loss rate: 0.39%

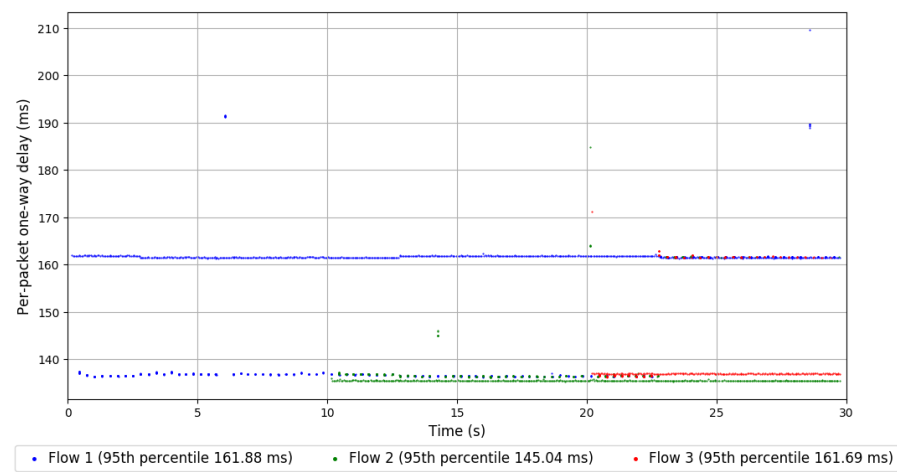
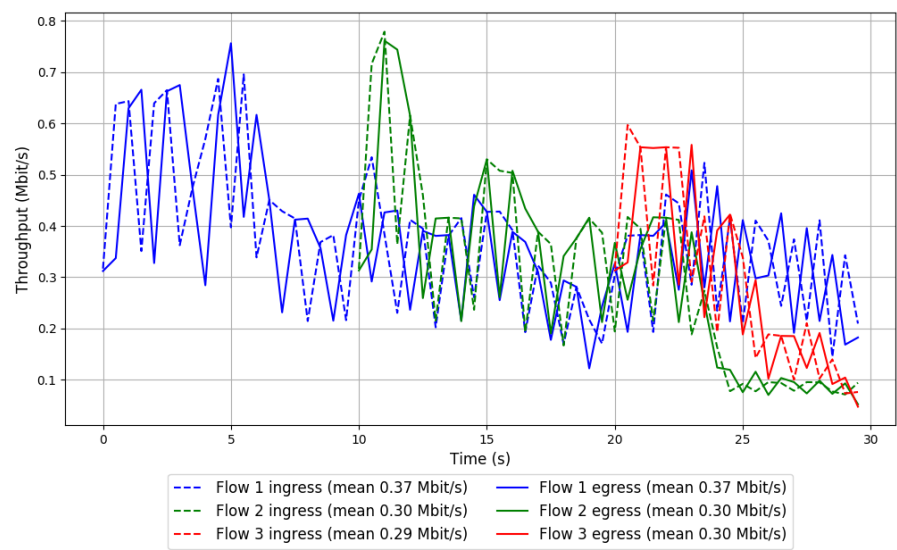
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 161.689 ms

Loss rate: 0.85%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-10 05:53:50

End at: 2018-01-10 05:54:20

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 164.200 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 164.464 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 164.208 ms

Loss rate: 1.32%

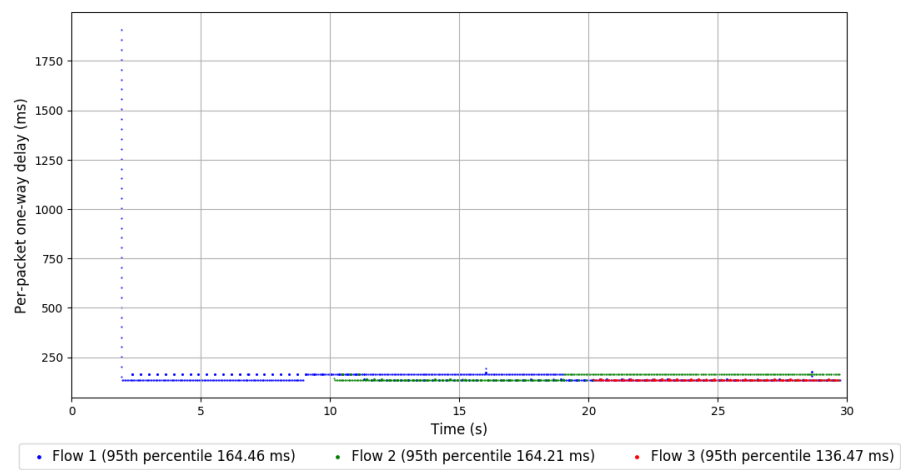
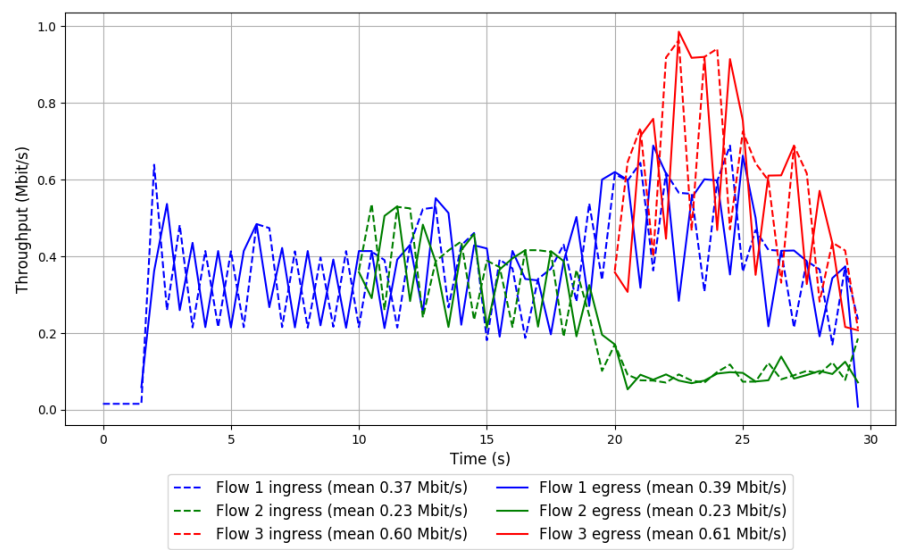
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 136.469 ms

Loss rate: 1.77%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-10 06:09:39

End at: 2018-01-10 06:10:09

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 163.965 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 163.997 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.370 ms

Loss rate: 1.17%

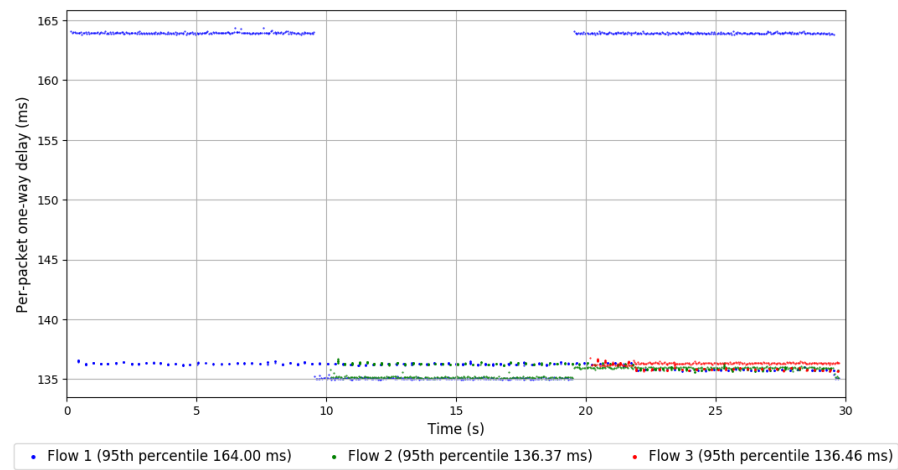
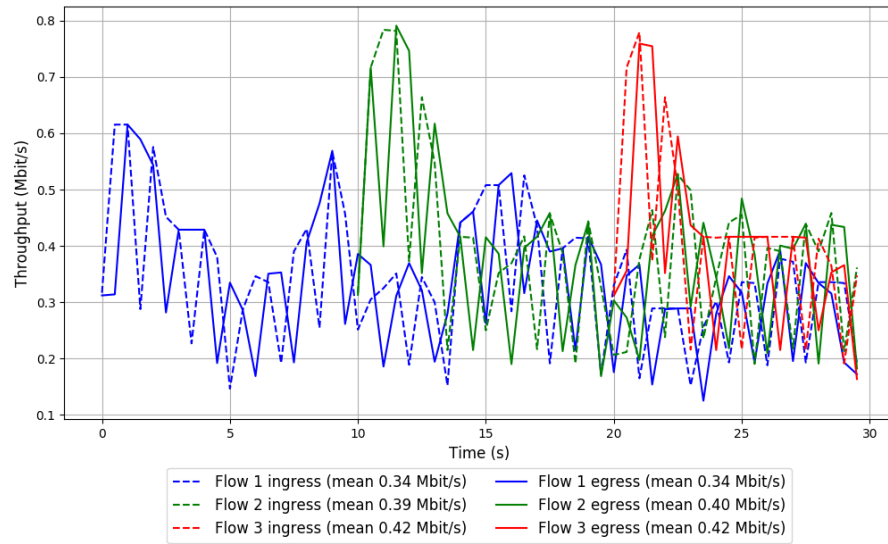
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.458 ms

Loss rate: 2.29%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-10 06:25:31

End at: 2018-01-10 06:26:01

Below is generated by plot.py at 2018-01-10 09:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 162.223 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 162.260 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 160.770 ms

Loss rate: 1.05%

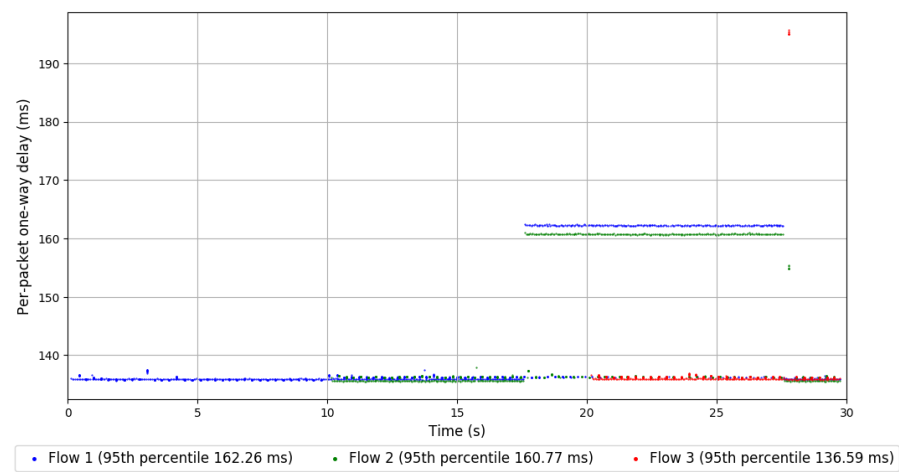
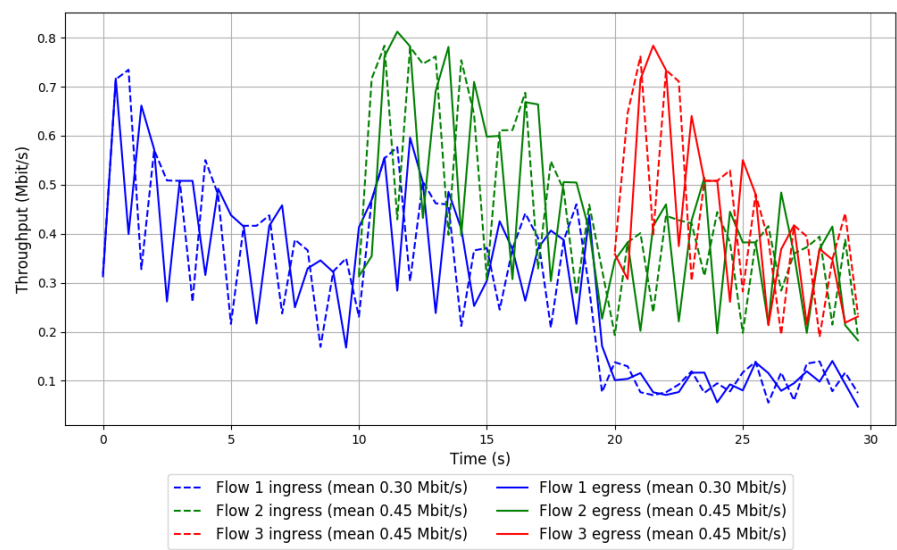
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 2.62%

Run 10: Report of Sprout — Data Link

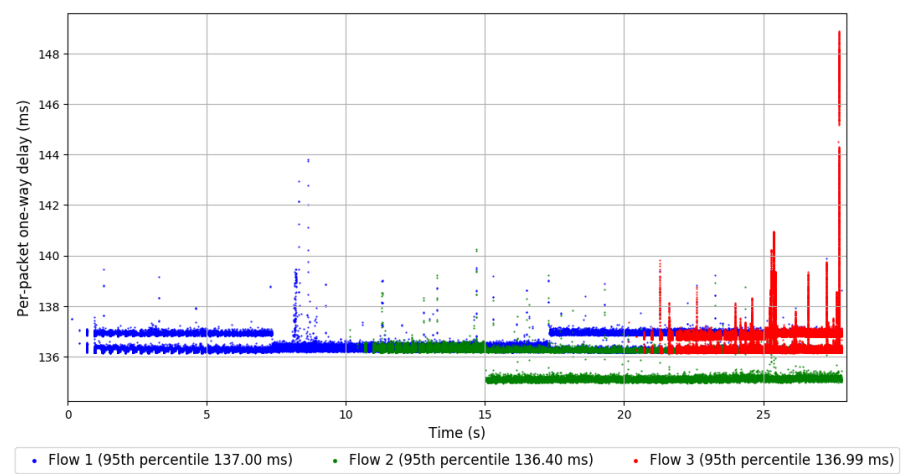
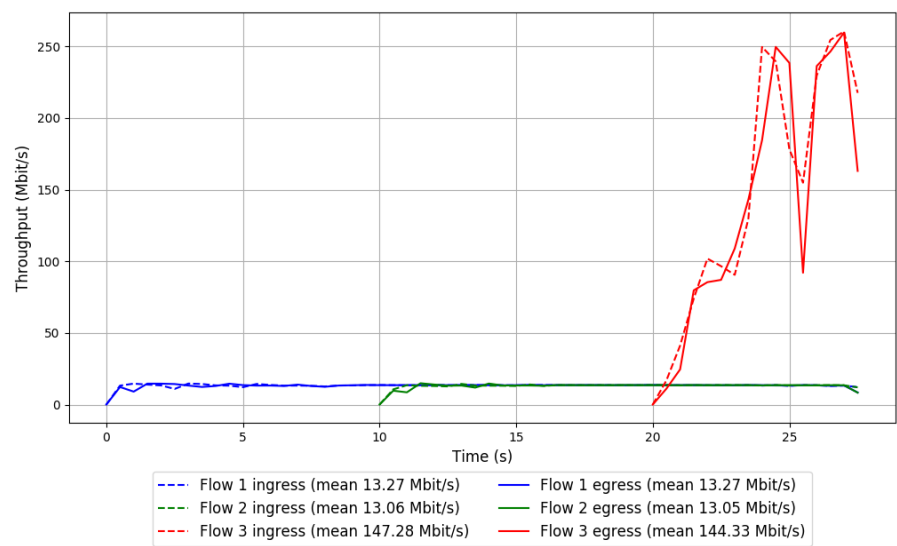


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-10 03:50:02
End at: 2018-01-10 03:50:32

# Below is generated by plot.py at 2018-01-10 09:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 136.985 ms
Loss rate: 3.94%
-- Flow 1:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 136.999 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 136.403 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 144.33 Mbit/s
95th percentile per-packet one-way delay: 136.994 ms
Loss rate: 5.35%
```


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

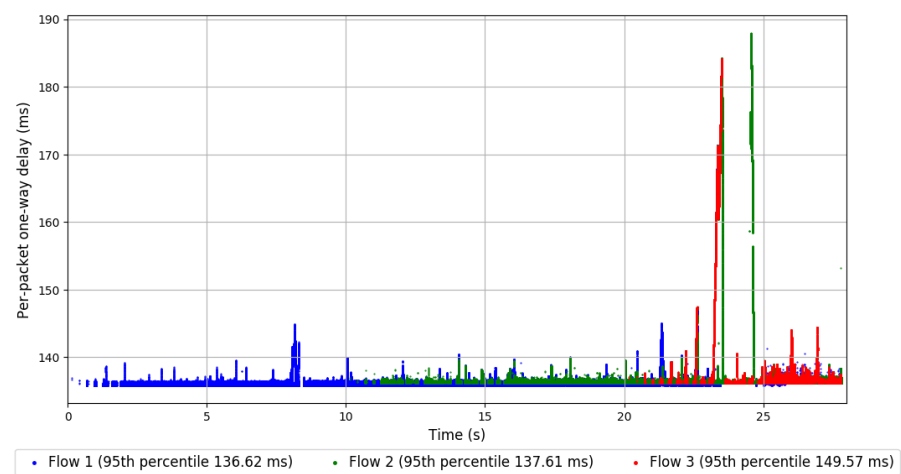
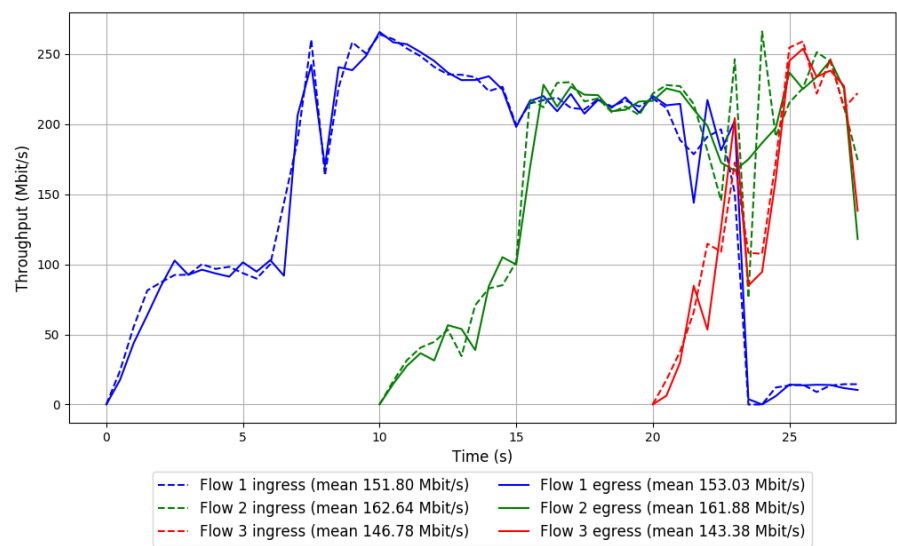


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-10 04:05:31
End at: 2018-01-10 04:06:01

# Below is generated by plot.py at 2018-01-10 09:40:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.78 Mbit/s
95th percentile per-packet one-way delay: 137.822 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 153.03 Mbit/s
95th percentile per-packet one-way delay: 136.623 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 161.88 Mbit/s
95th percentile per-packet one-way delay: 137.608 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 143.38 Mbit/s
95th percentile per-packet one-way delay: 149.575 ms
Loss rate: 6.04%
```

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

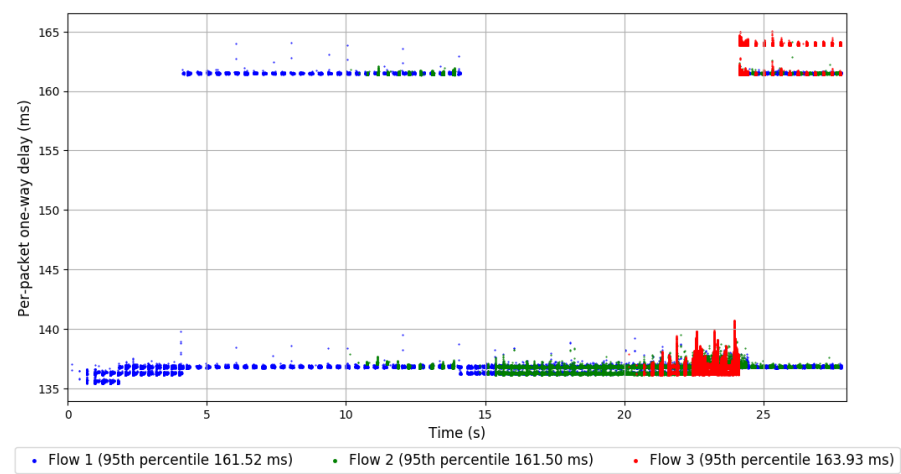
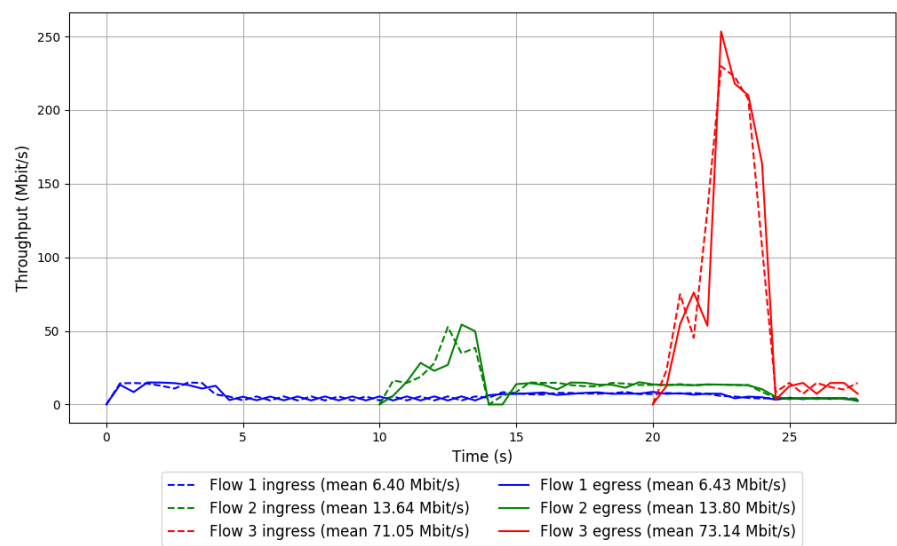


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-10 04:21:05
End at: 2018-01-10 04:21:35

# Below is generated by plot.py at 2018-01-10 09:40:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.36 Mbit/s
95th percentile per-packet one-way delay: 161.820 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 161.518 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 161.505 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 73.14 Mbit/s
95th percentile per-packet one-way delay: 163.929 ms
Loss rate: 0.65%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-10 04:35:53

End at: 2018-01-10 04:36:23

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.87 Mbit/s

95th percentile per-packet one-way delay: 136.707 ms

Loss rate: 3.99%

-- Flow 1:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 164.042 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 161.439 ms

Loss rate: 1.80%

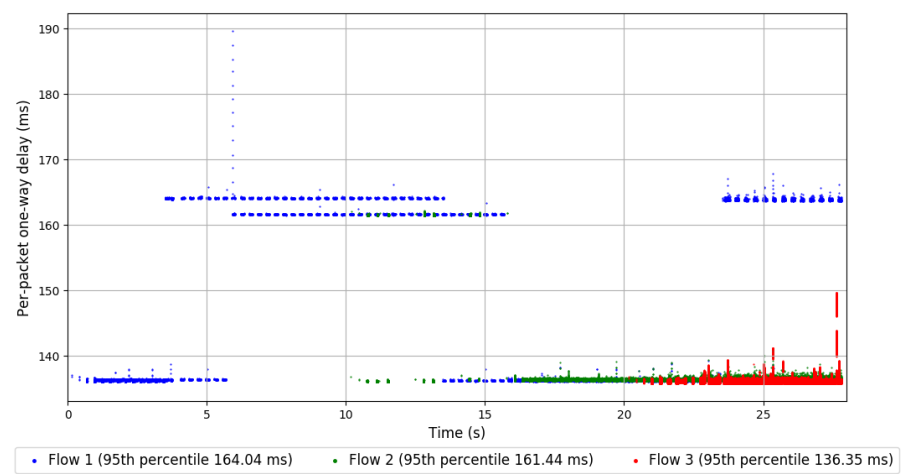
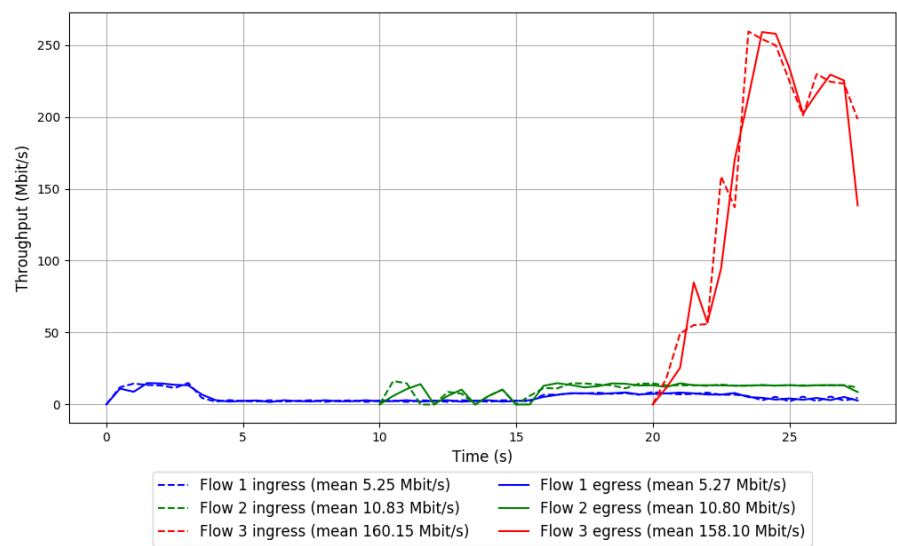
-- Flow 3:

Average throughput: 158.10 Mbit/s

95th percentile per-packet one-way delay: 136.353 ms

Loss rate: 4.71%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-10 04:51:52

End at: 2018-01-10 04:52:22

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 161.779 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 161.828 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 161.744 ms

Loss rate: 4.11%

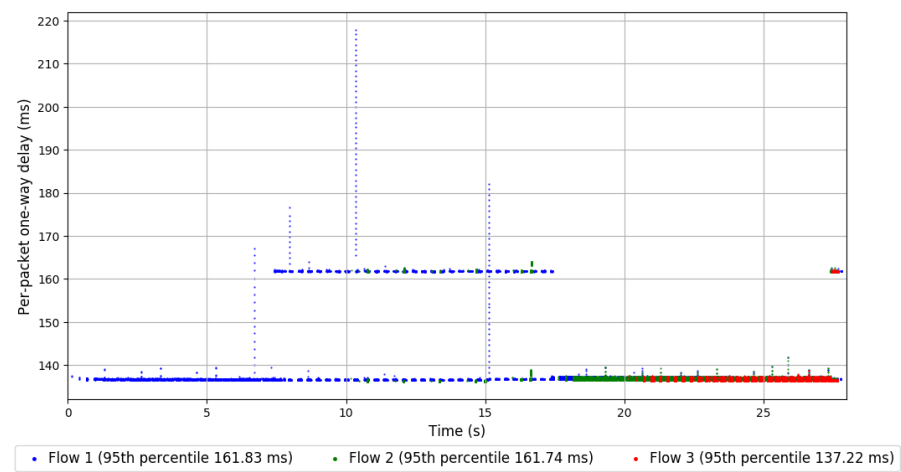
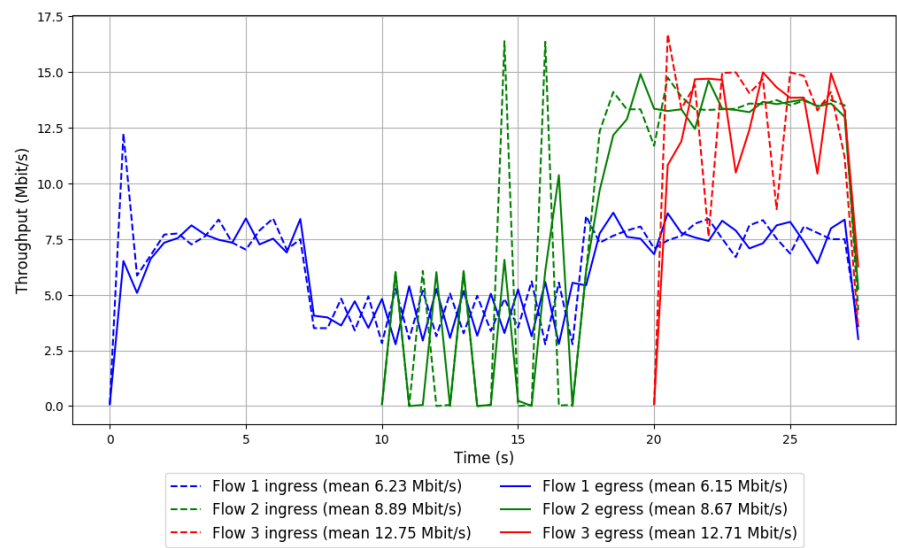
-- Flow 3:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 137.222 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-10 05:08:00

End at: 2018-01-10 05:08:30

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.52 Mbit/s

95th percentile per-packet one-way delay: 137.208 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 212.55 Mbit/s

95th percentile per-packet one-way delay: 137.197 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 163.630 ms

Loss rate: 0.00%

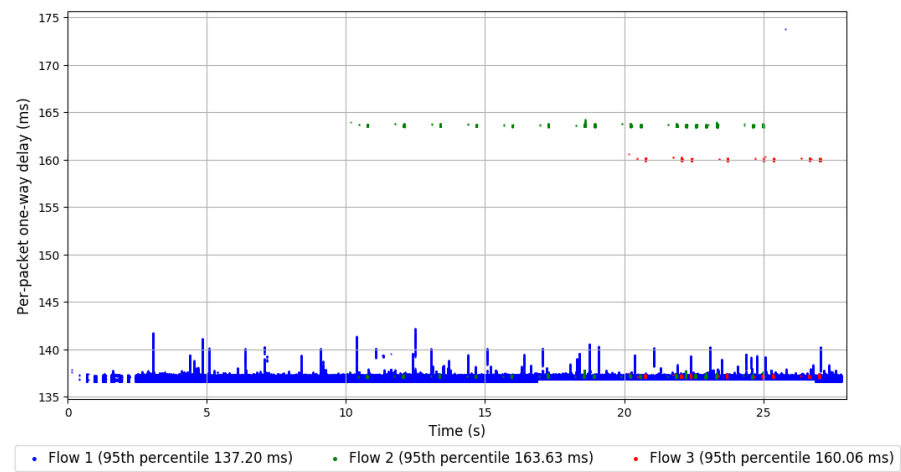
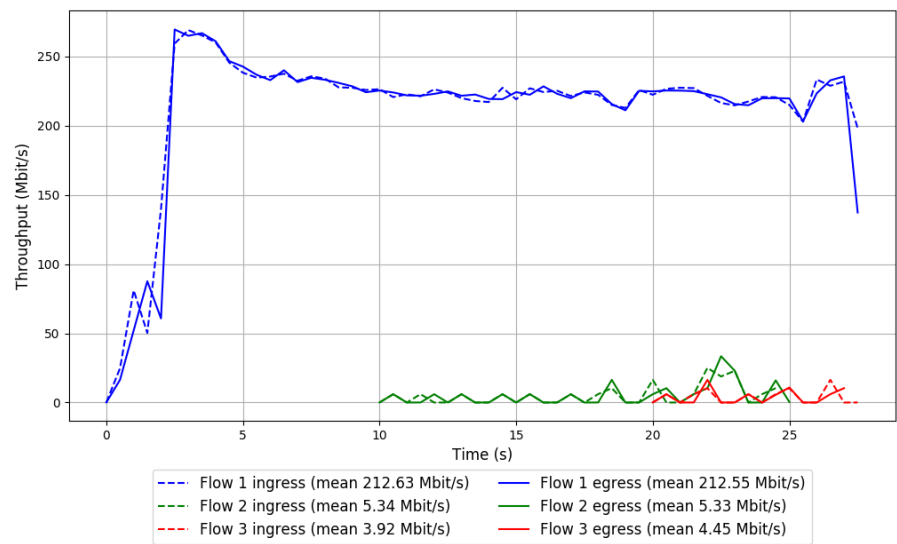
-- Flow 3:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 160.055 ms

Loss rate: 0.08%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-10 05:24:05

End at: 2018-01-10 05:24:35

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.90 Mbit/s

95th percentile per-packet one-way delay: 136.748 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 136.662 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 181.04 Mbit/s

95th percentile per-packet one-way delay: 136.633 ms

Loss rate: 1.94%

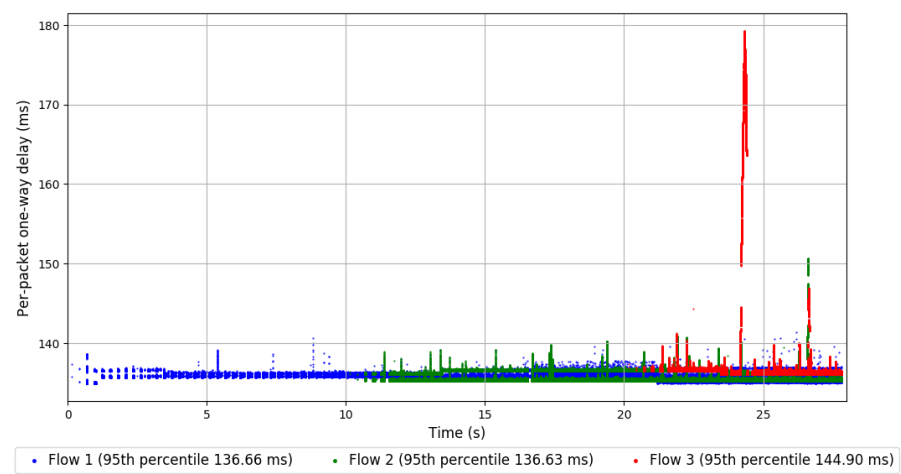
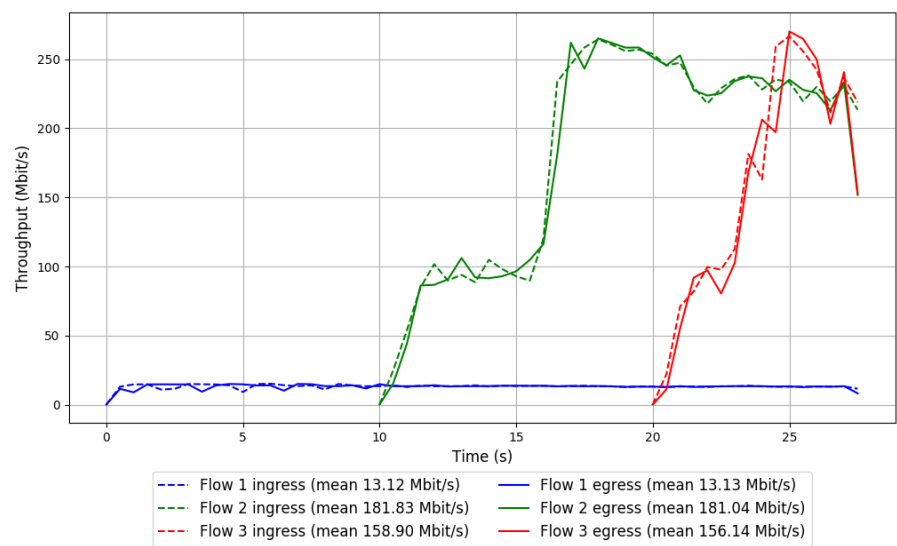
-- Flow 3:

Average throughput: 156.14 Mbit/s

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

Loss rate: 5.11%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-10 05:40:11

End at: 2018-01-10 05:40:41

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.95 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 194.05 Mbit/s

95th percentile per-packet one-way delay: 136.977 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 163.464 ms

Loss rate: 0.00%

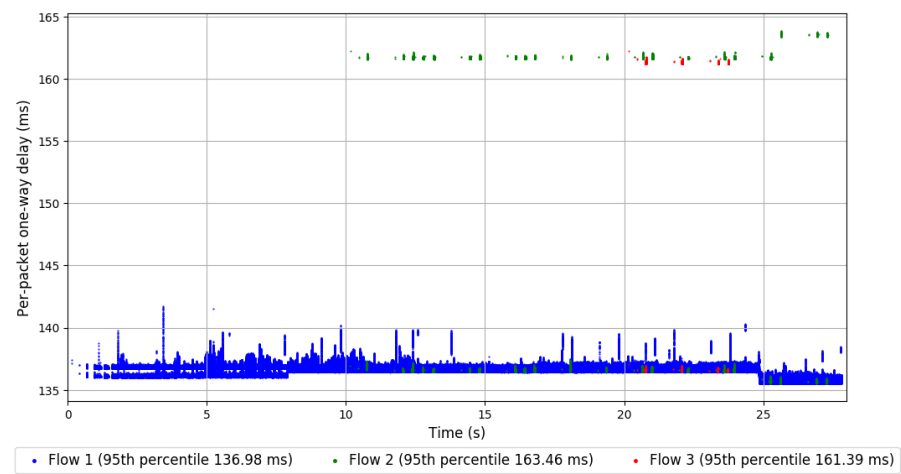
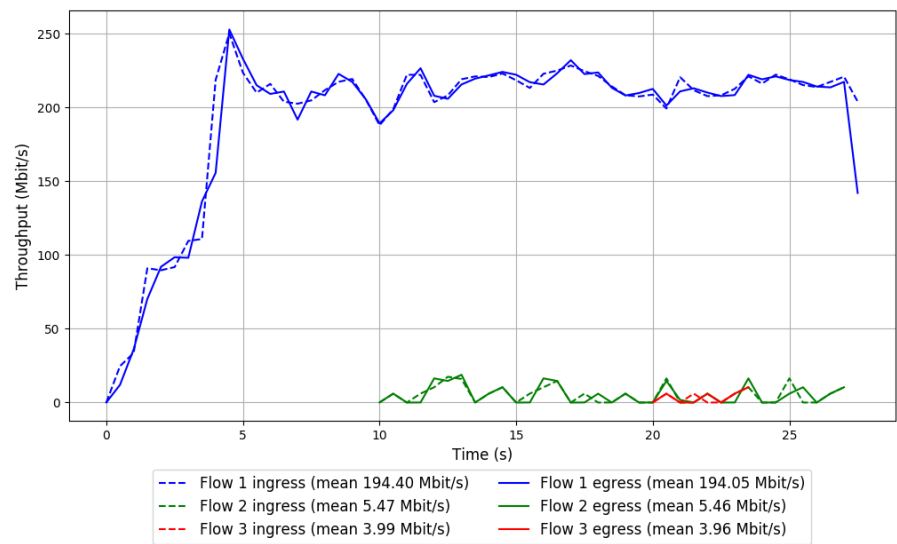
-- Flow 3:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 161.387 ms

Loss rate: 0.00%

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

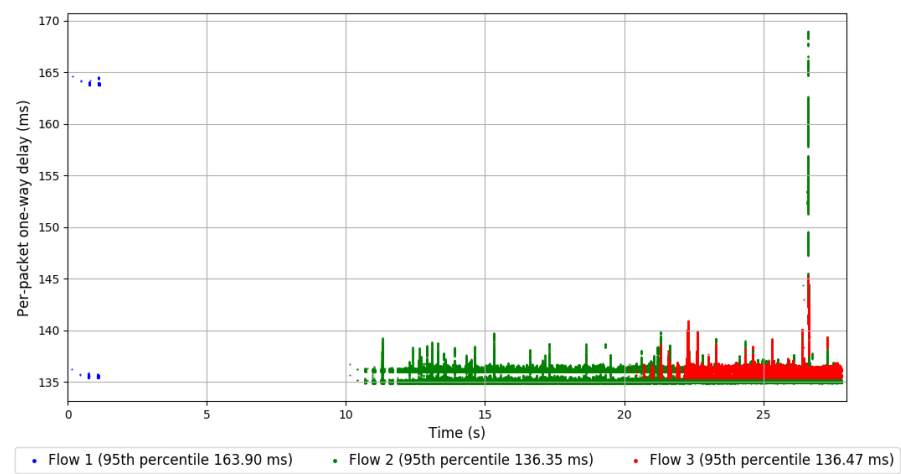
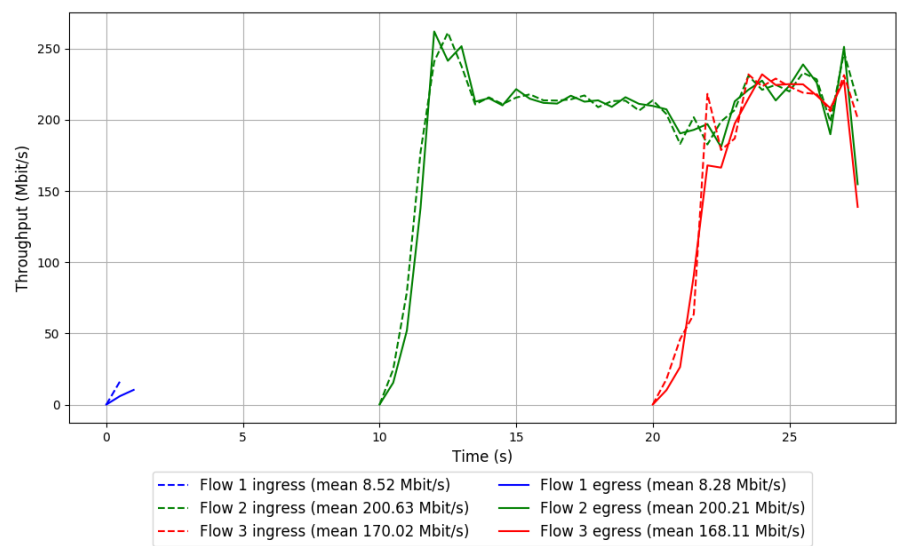


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-10 05:56:30
End at: 2018-01-10 05:57:00

# Below is generated by plot.py at 2018-01-10 09:40:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 174.56 Mbit/s
95th percentile per-packet one-way delay: 136.392 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 163.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.21 Mbit/s
95th percentile per-packet one-way delay: 136.350 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 168.11 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 4.55%
```


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

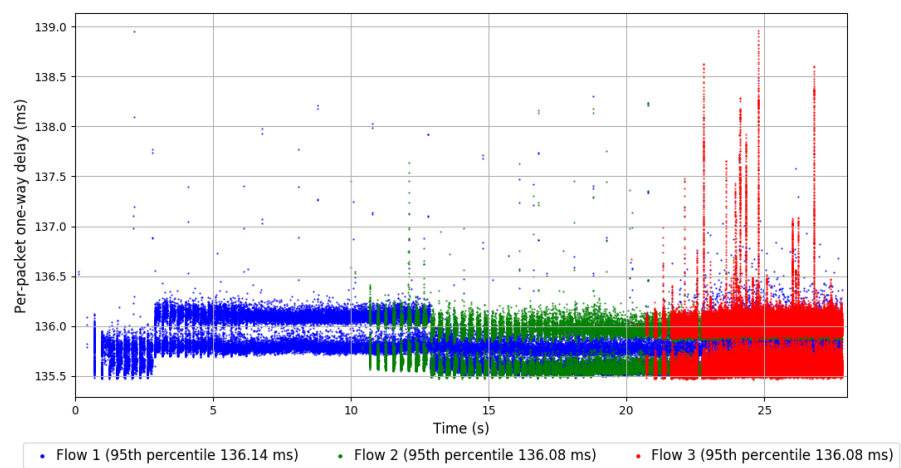
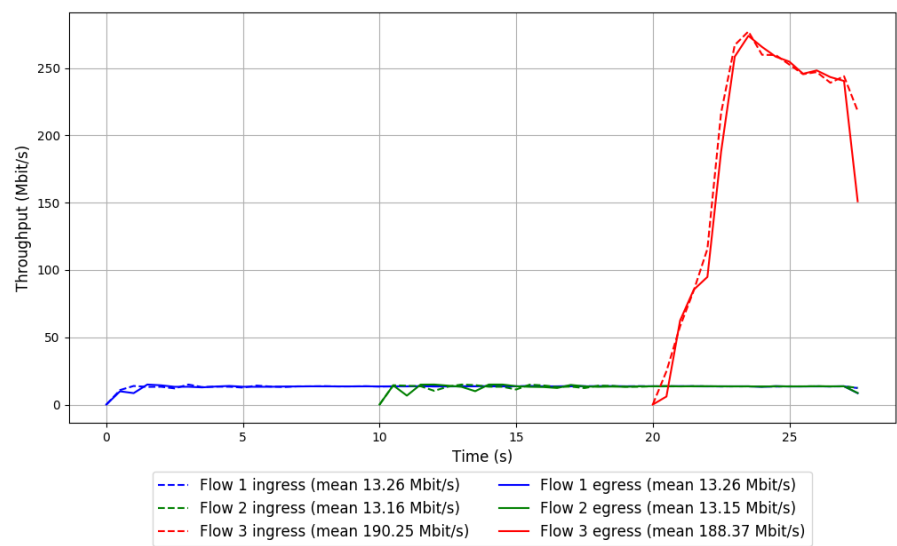


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-10 06:12:16
End at: 2018-01-10 06:12:46

# Below is generated by plot.py at 2018-01-10 09:40:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.60 Mbit/s
95th percentile per-packet one-way delay: 136.095 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 136.144 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 136.079 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 188.37 Mbit/s
95th percentile per-packet one-way delay: 136.078 ms
Loss rate: 4.43%
```

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

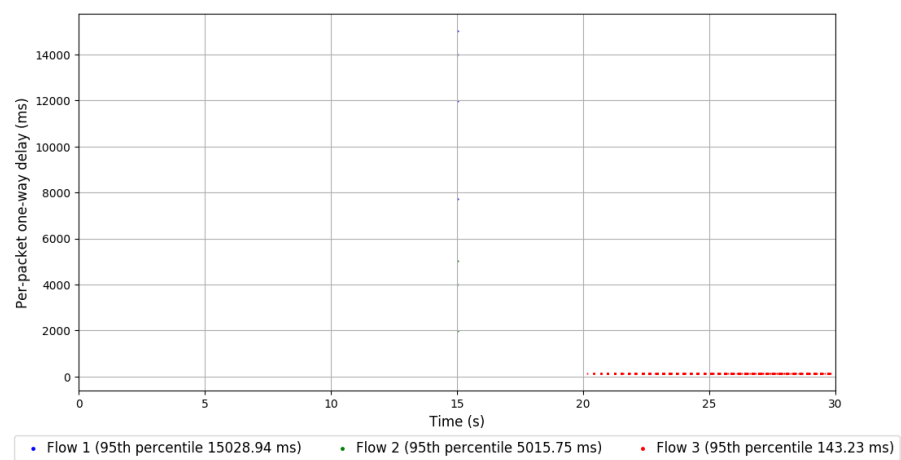
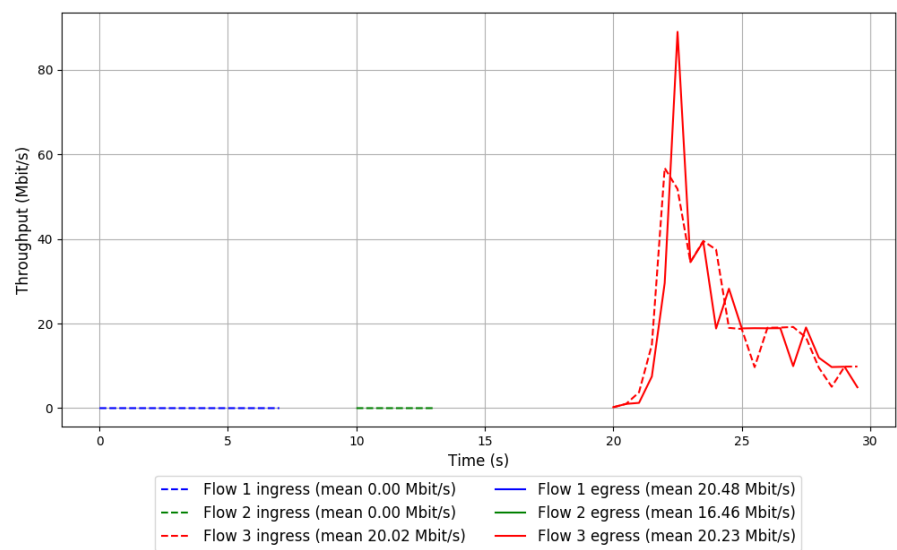


Run 1: Statistics of TCP Vegas

Start at: 2018-01-10 04:01:05

End at: 2018-01-10 04:01:35

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-10 04:16:43

End at: 2018-01-10 04:17:13

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 161.884 ms

Loss rate: 4.60%

-- Flow 1:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 161.892 ms

Loss rate: 4.86%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 161.871 ms

Loss rate: 3.05%

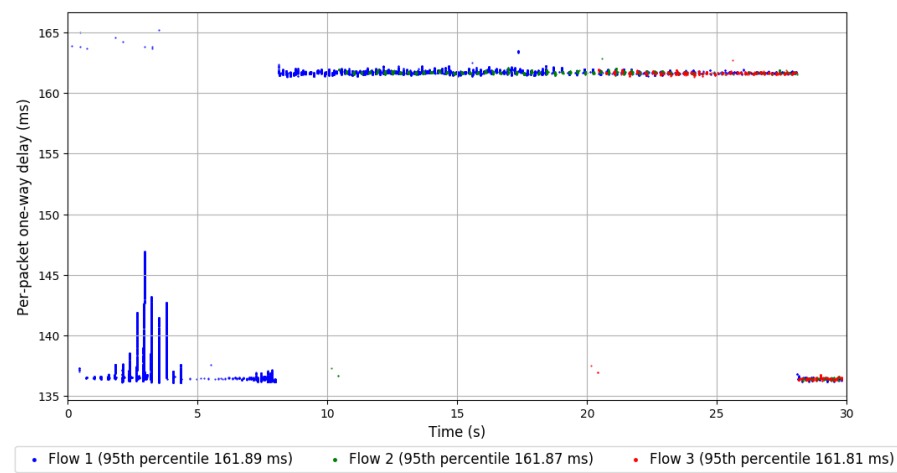
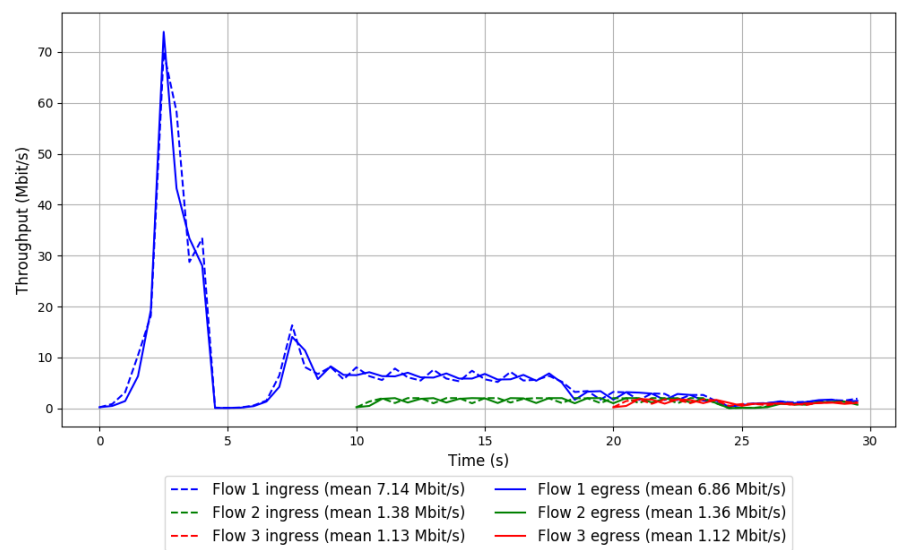
-- Flow 3:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 161.815 ms

Loss rate: 3.44%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-10 04:31:24

End at: 2018-01-10 04:31:54

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 161.875 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 161.985 ms

Loss rate: 3.02%

-- Flow 2:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 161.773 ms

Loss rate: 2.28%

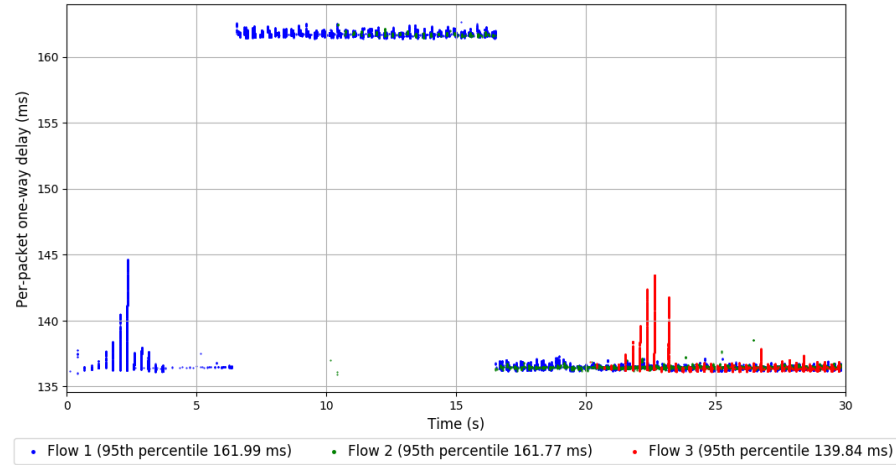
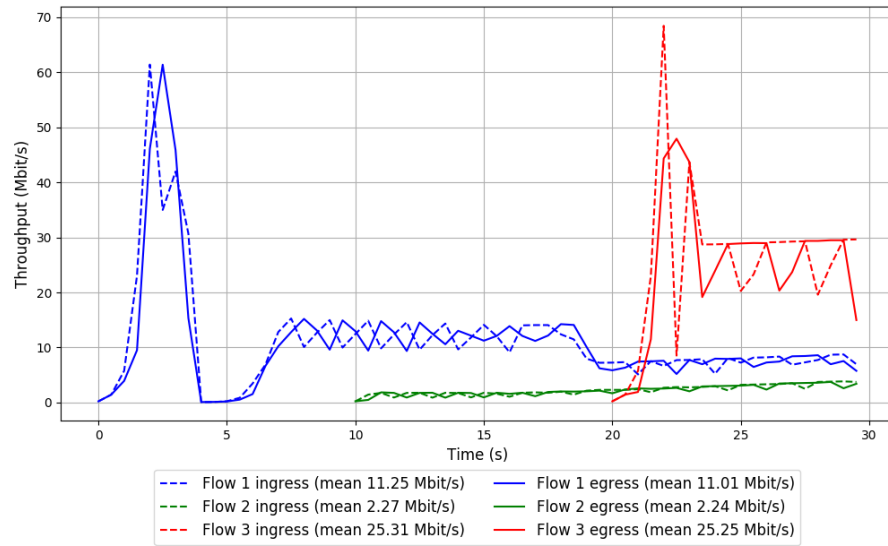
-- Flow 3:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 139.837 ms

Loss rate: 2.97%

Run 3: Report of TCP Vegas — Data Link

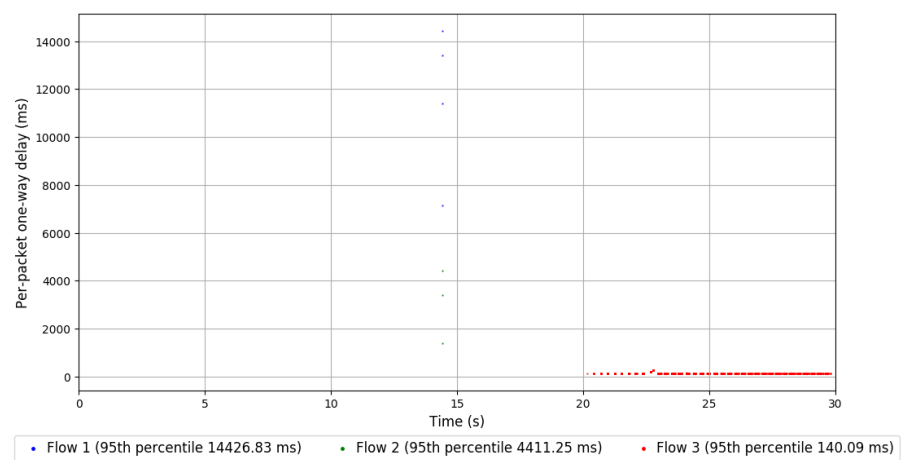
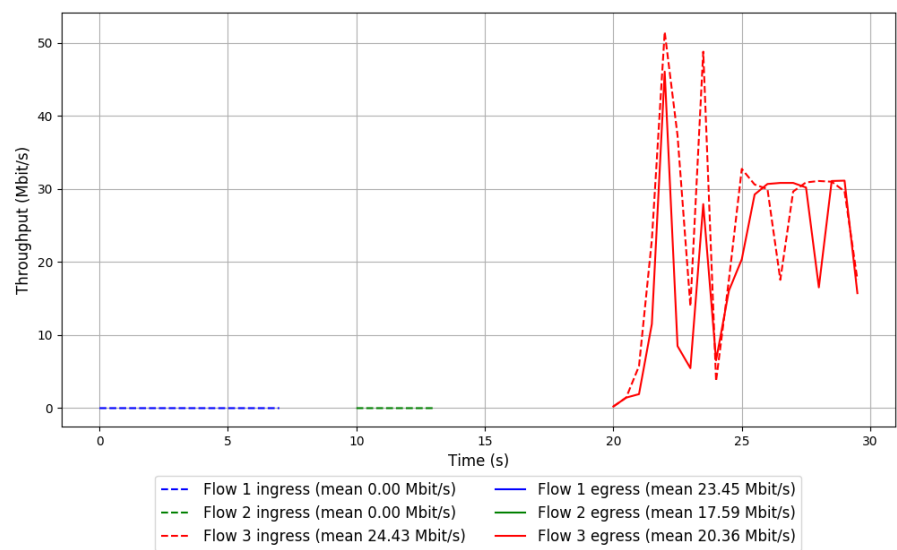


Run 4: Statistics of TCP Vegas

Start at: 2018-01-10 04:47:18

End at: 2018-01-10 04:47:48

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-10 05:03:23

End at: 2018-01-10 05:03:53

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 161.884 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 161.805 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 24.97 Mbit/s

95th percentile per-packet one-way delay: 161.816 ms

Loss rate: 1.45%

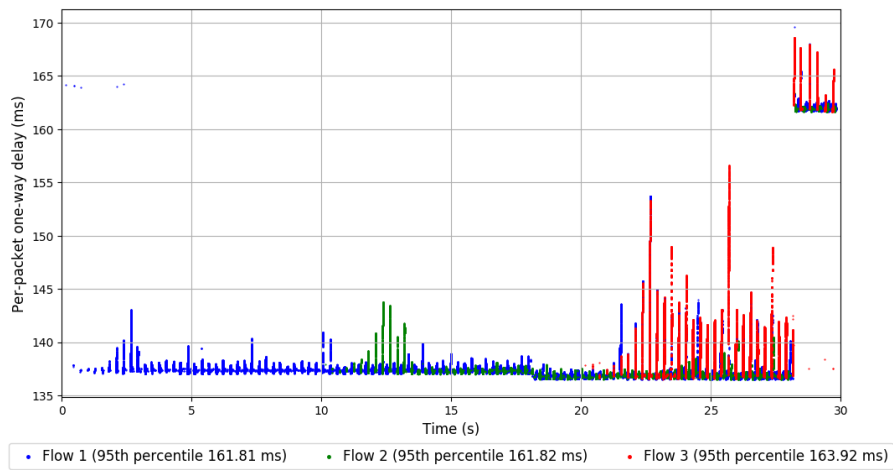
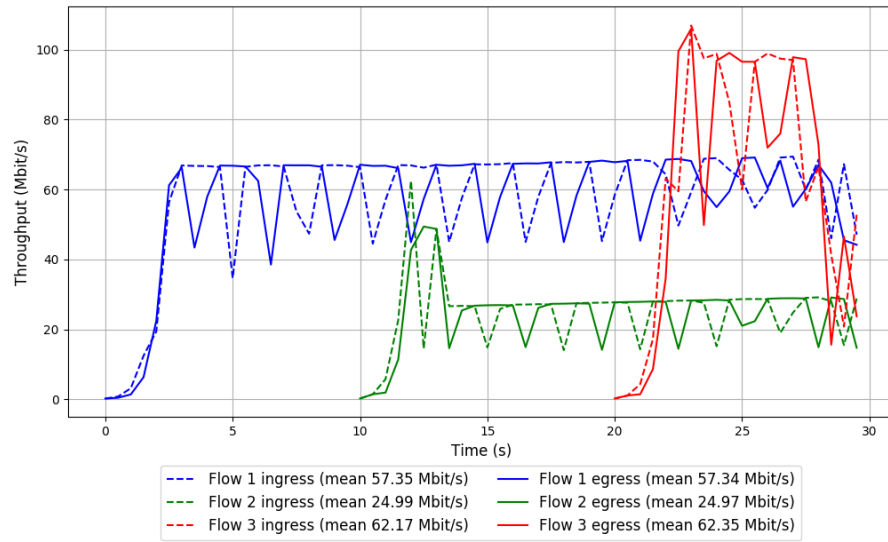
-- Flow 3:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 163.918 ms

Loss rate: 2.42%

Run 5: Report of TCP Vegas — Data Link

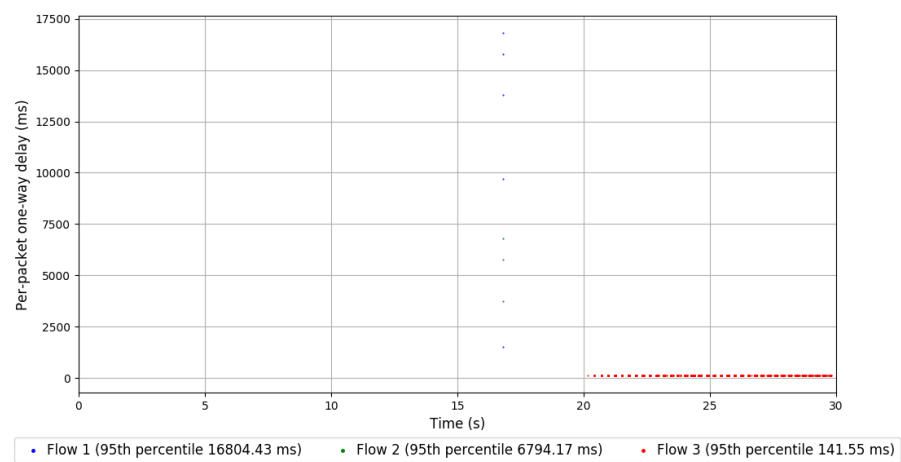
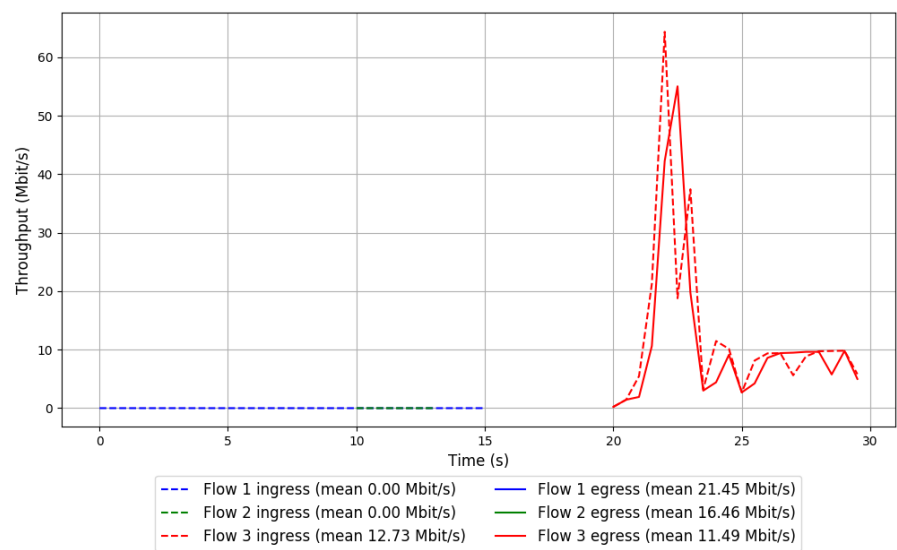


Run 6: Statistics of TCP Vegas

Start at: 2018-01-10 05:19:44

End at: 2018-01-10 05:20:14

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-10 05:35:49

End at: 2018-01-10 05:36:19

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 137.085 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 137.059 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 137.040 ms

Loss rate: 1.53%

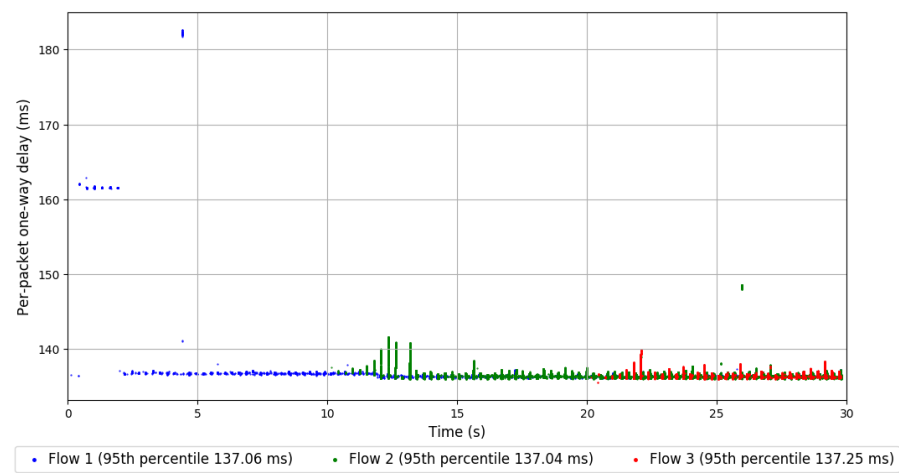
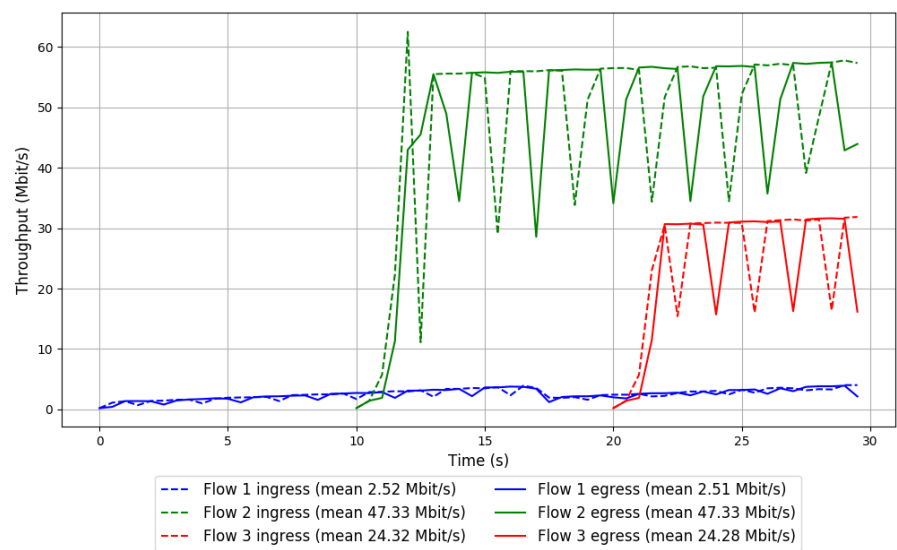
-- Flow 3:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 137.255 ms

Loss rate: 3.30%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-10 05:51:59

End at: 2018-01-10 05:52:29

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.93 Mbit/s

95th percentile per-packet one-way delay: 164.399 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 14.90 Mbit/s

95th percentile per-packet one-way delay: 164.287 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 164.604 ms

Loss rate: 1.59%

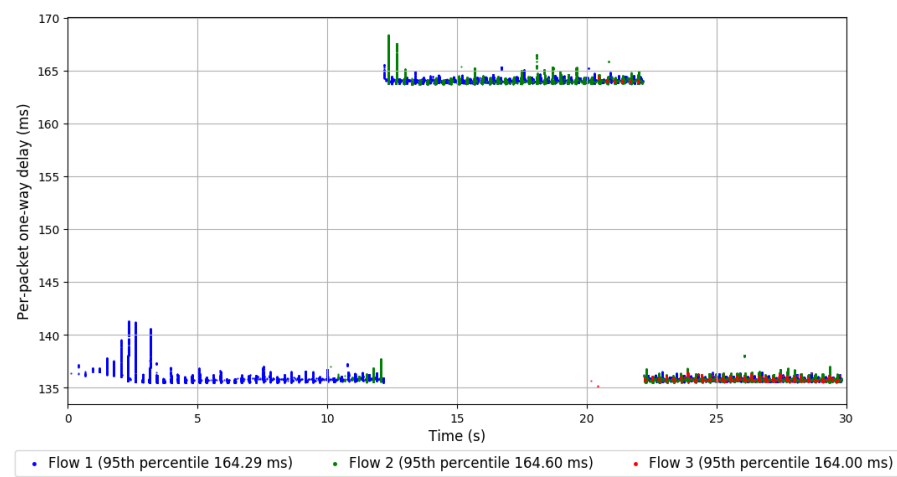
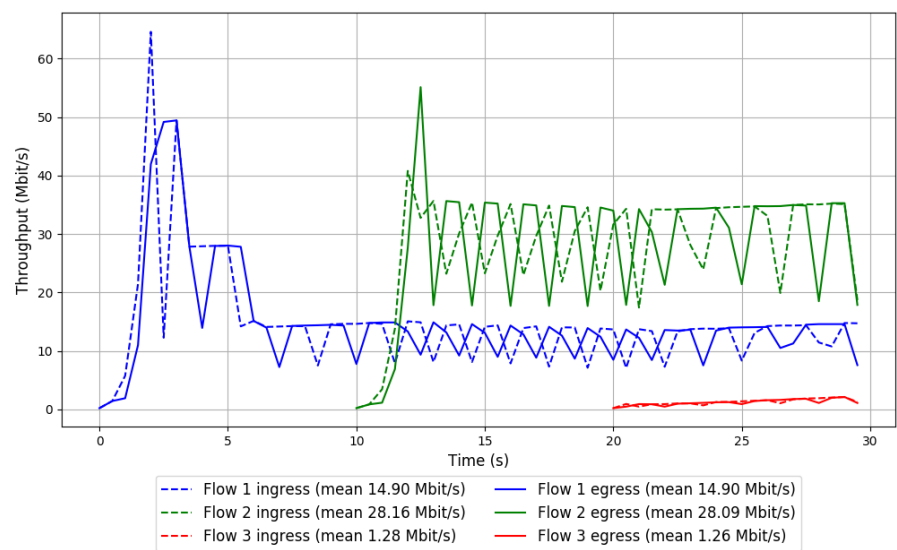
-- Flow 3:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 164.001 ms

Loss rate: 4.47%

Run 8: Report of TCP Vegas — Data Link

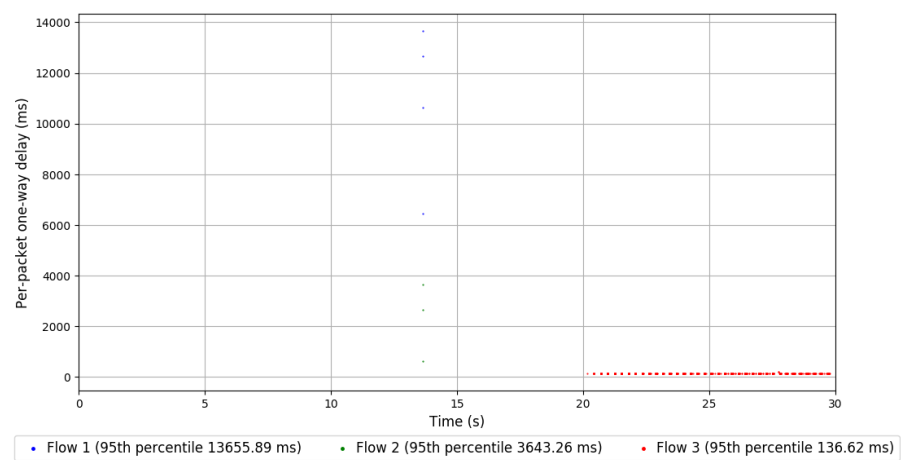
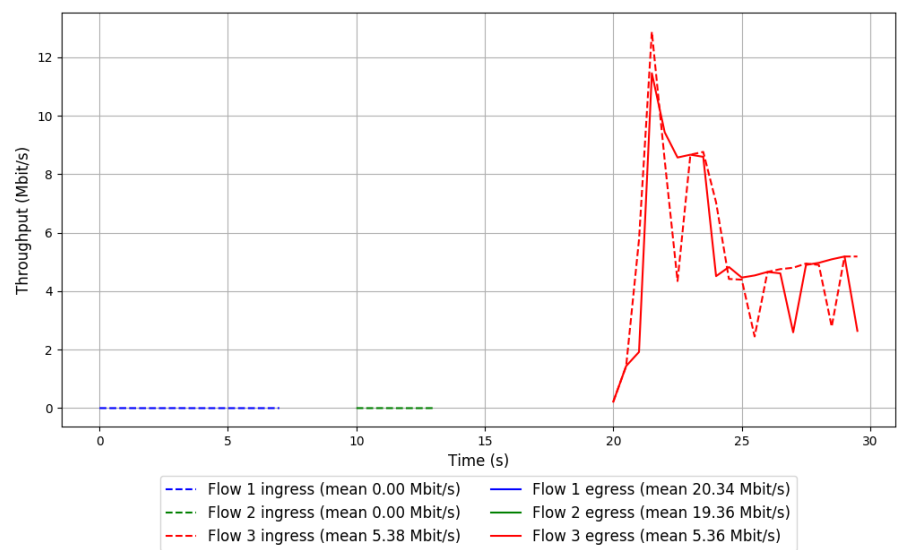


Run 9: Statistics of TCP Vegas

Start at: 2018-01-10 06:07:51

End at: 2018-01-10 06:08:21

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-10 06:23:40

End at: 2018-01-10 06:24:10

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 138.305 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 19.93 Mbit/s

95th percentile per-packet one-way delay: 137.105 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 15.86 Mbit/s

95th percentile per-packet one-way delay: 140.615 ms

Loss rate: 1.56%

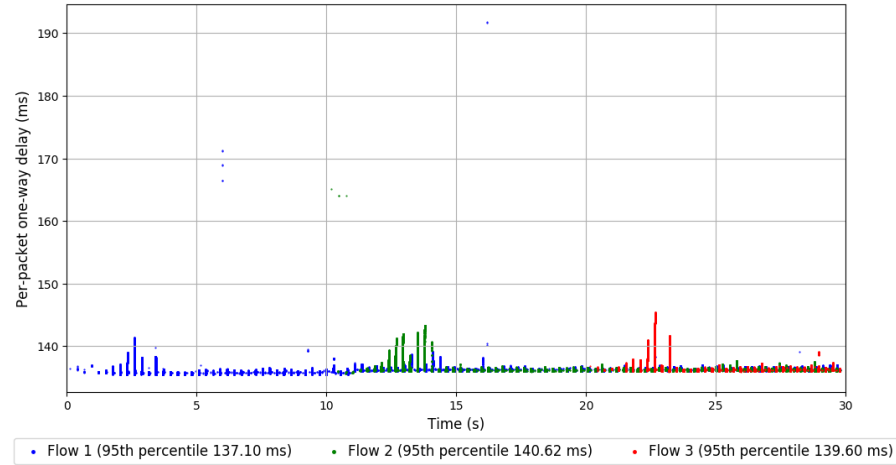
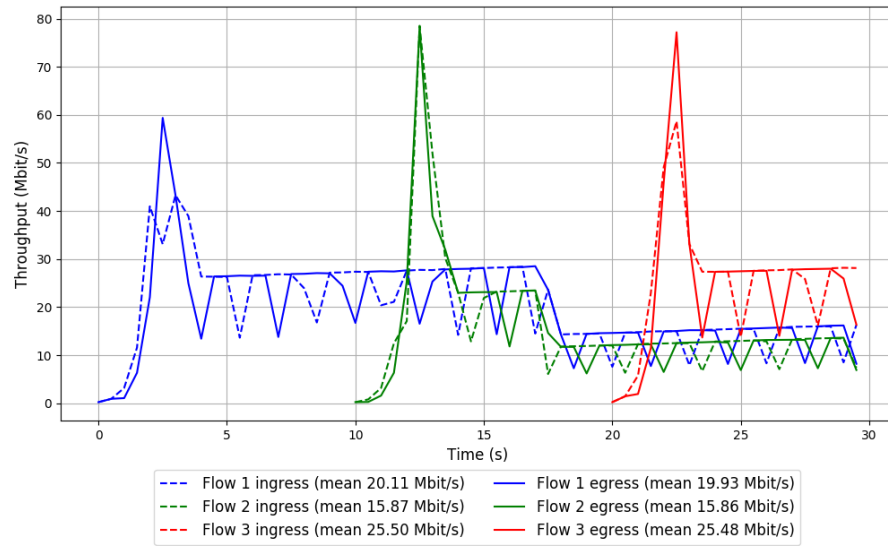
-- Flow 3:

Average throughput: 25.48 Mbit/s

95th percentile per-packet one-way delay: 139.599 ms

Loss rate: 2.81%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-10 03:57:49

End at: 2018-01-10 03:58:19

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.74 Mbit/s

95th percentile per-packet one-way delay: 221.699 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 110.76 Mbit/s

95th percentile per-packet one-way delay: 165.459 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 69.82 Mbit/s

95th percentile per-packet one-way delay: 298.644 ms

Loss rate: 2.76%

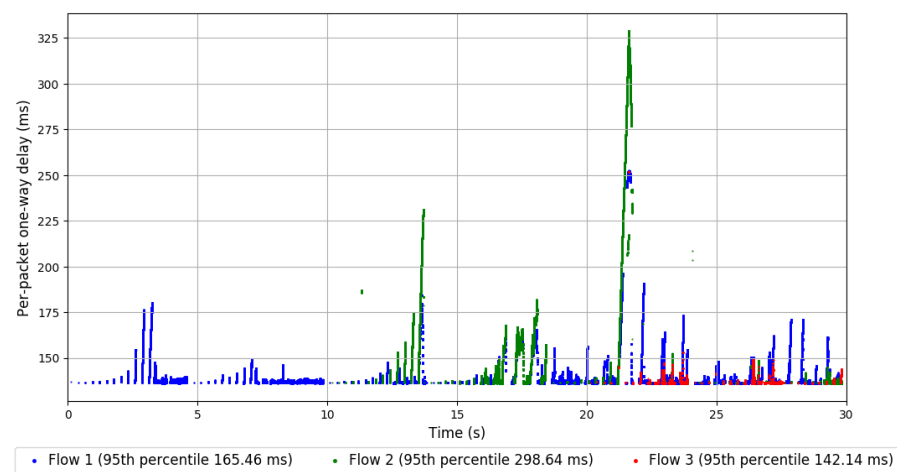
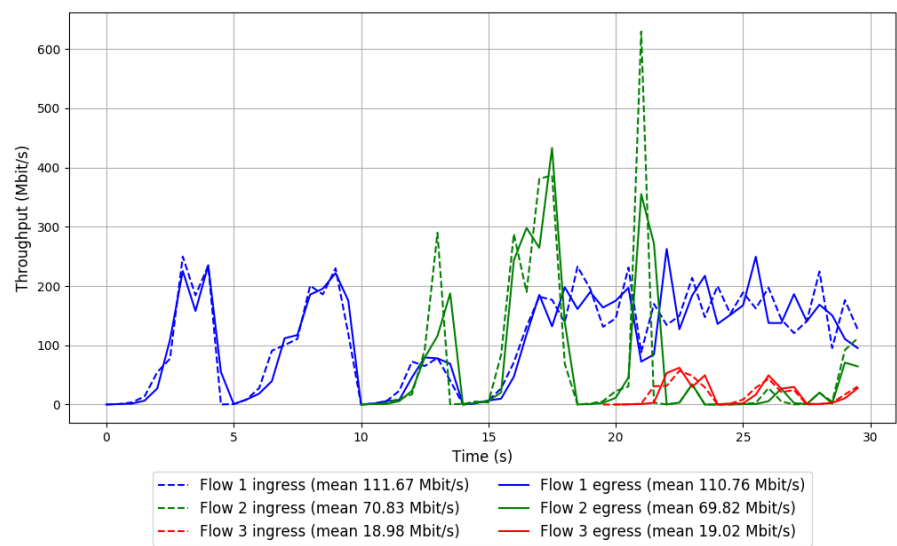
-- Flow 3:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 142.143 ms

Loss rate: 2.54%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-10 04:13:38

End at: 2018-01-10 04:14:08

Below is generated by plot.py at 2018-01-10 09:40:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.92 Mbit/s

95th percentile per-packet one-way delay: 176.458 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 180.587 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 36.32 Mbit/s

95th percentile per-packet one-way delay: 139.456 ms

Loss rate: 2.27%

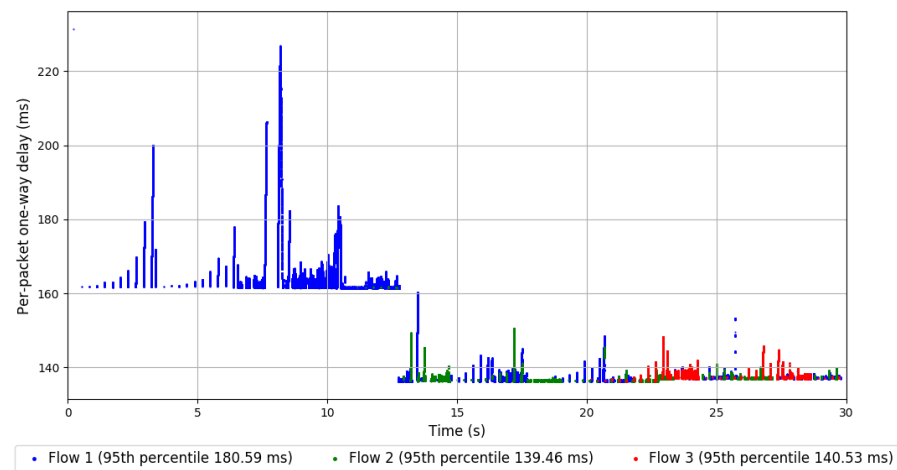
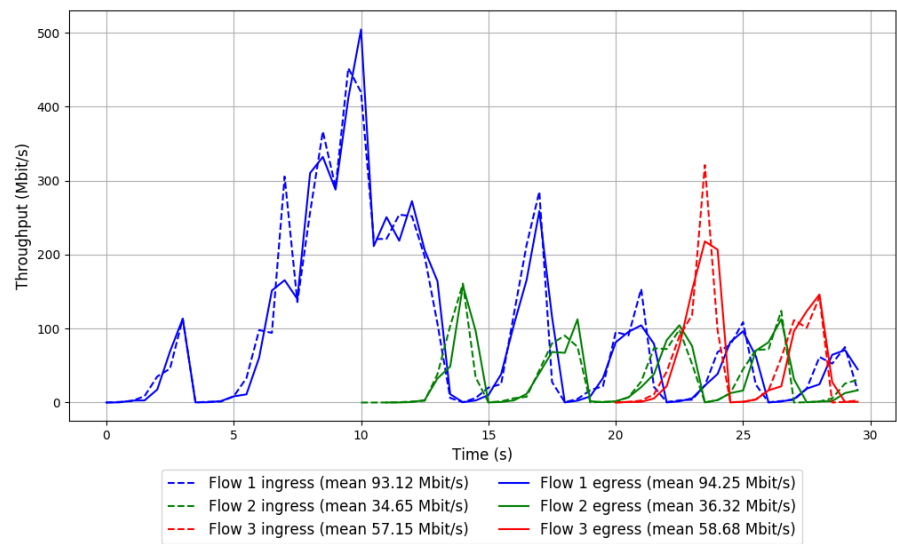
-- Flow 3:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 140.529 ms

Loss rate: 0.19%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-10 04:28:00

End at: 2018-01-10 04:28:30

Below is generated by plot.py at 2018-01-10 09:42:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.96 Mbit/s

95th percentile per-packet one-way delay: 188.946 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 201.10 Mbit/s

95th percentile per-packet one-way delay: 189.685 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 111.82 Mbit/s

95th percentile per-packet one-way delay: 186.603 ms

Loss rate: 0.00%

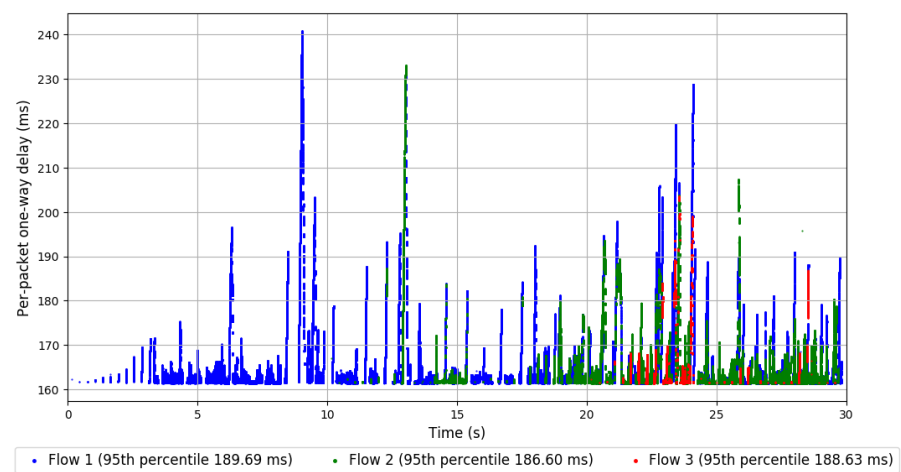
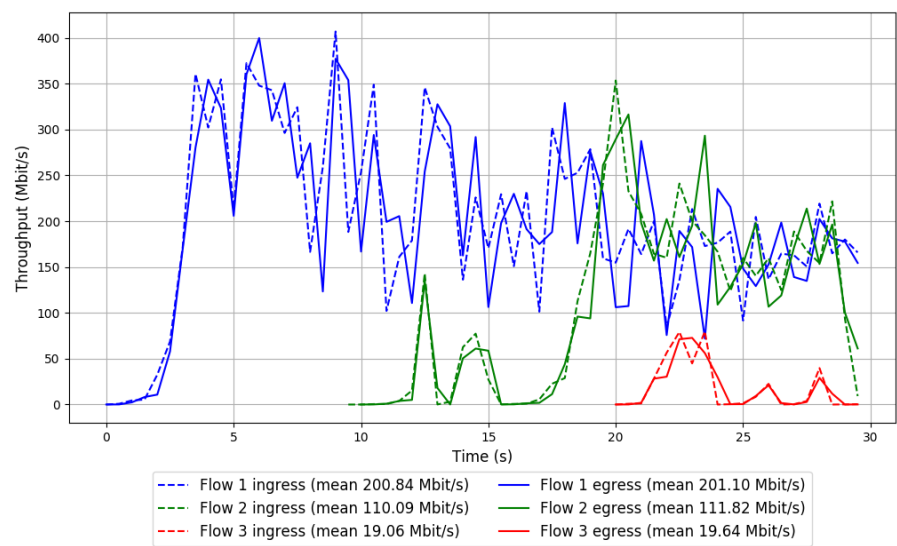
-- Flow 3:

Average throughput: 19.64 Mbit/s

95th percentile per-packet one-way delay: 188.632 ms

Loss rate: 0.12%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-10 04:43:54

End at: 2018-01-10 04:44:24

Below is generated by plot.py at 2018-01-10 09:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.88 Mbit/s

95th percentile per-packet one-way delay: 169.084 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 222.49 Mbit/s

95th percentile per-packet one-way delay: 147.375 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 331.113 ms

Loss rate: 7.14%

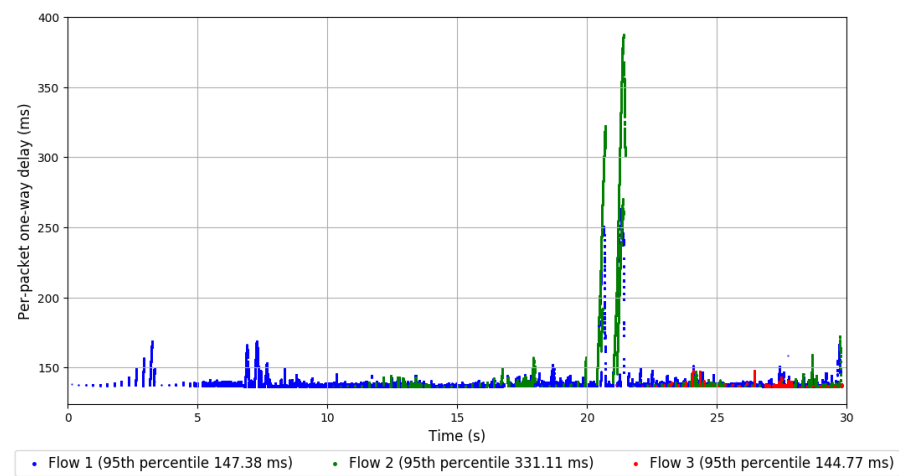
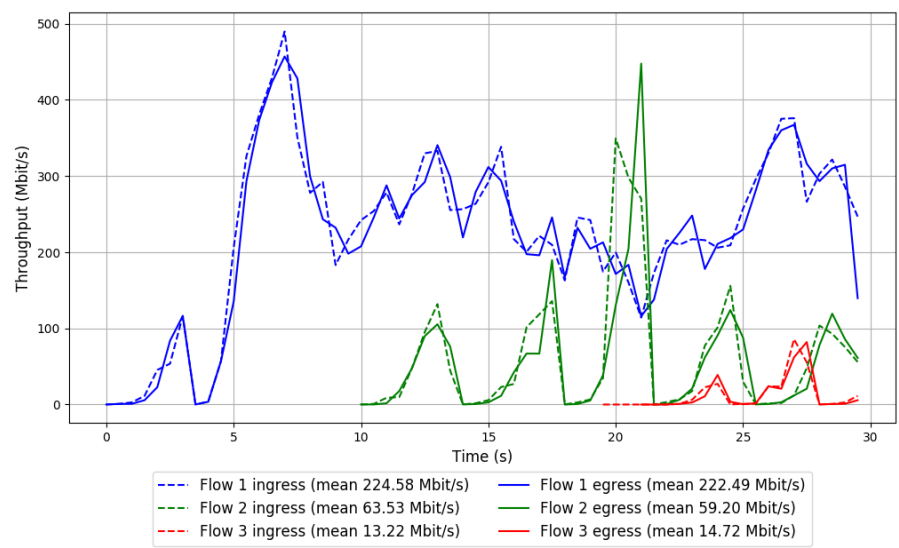
-- Flow 3:

Average throughput: 14.72 Mbit/s

95th percentile per-packet one-way delay: 144.774 ms

Loss rate: 2.89%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-10 04:59:55

End at: 2018-01-10 05:00:25

Below is generated by plot.py at 2018-01-10 09:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.42 Mbit/s

95th percentile per-packet one-way delay: 178.159 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 145.32 Mbit/s

95th percentile per-packet one-way delay: 181.247 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 177.065 ms

Loss rate: 0.02%

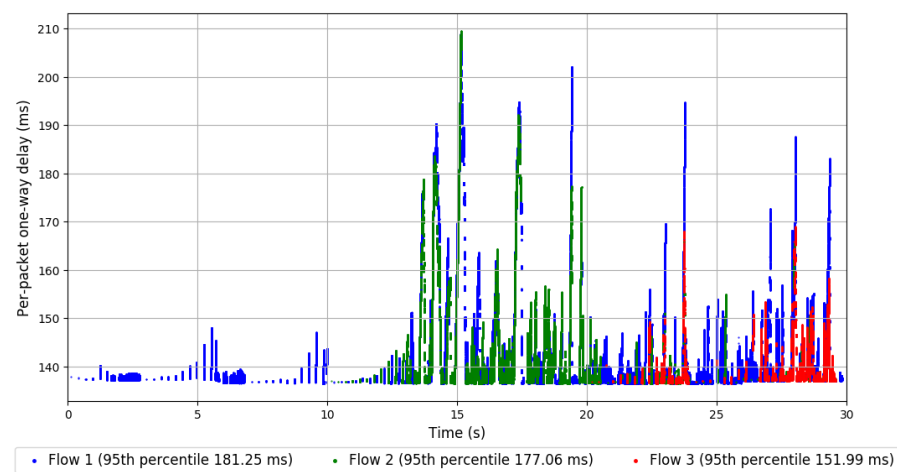
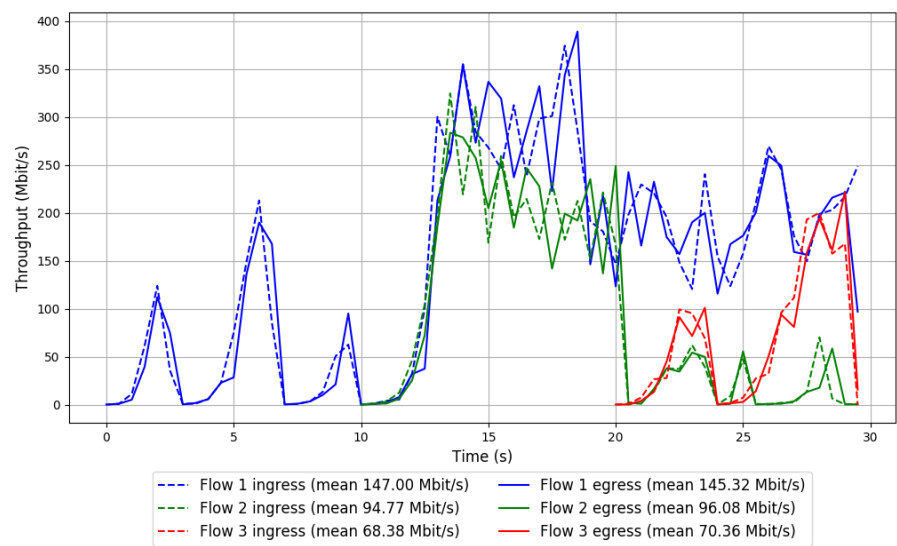
-- Flow 3:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 151.990 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-10 05:16:23

End at: 2018-01-10 05:16:53

Below is generated by plot.py at 2018-01-10 09:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.95 Mbit/s

95th percentile per-packet one-way delay: 182.405 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 150.965 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 212.826 ms

Loss rate: 1.45%

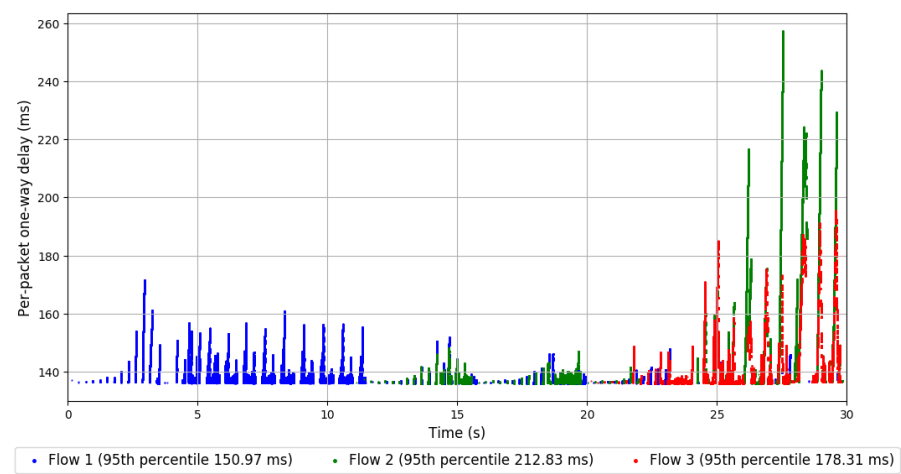
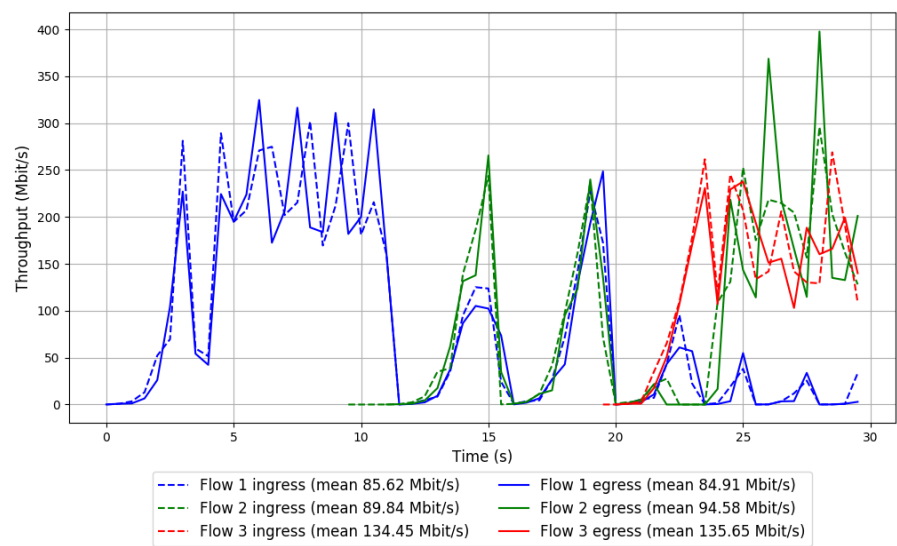
-- Flow 3:

Average throughput: 135.65 Mbit/s

95th percentile per-packet one-way delay: 178.311 ms

Loss rate: 2.40%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-10 05:32:25

End at: 2018-01-10 05:32:55

Below is generated by plot.py at 2018-01-10 09:43:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.77 Mbit/s

95th percentile per-packet one-way delay: 238.259 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 112.77 Mbit/s

95th percentile per-packet one-way delay: 262.710 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 188.82 Mbit/s

95th percentile per-packet one-way delay: 191.553 ms

Loss rate: 2.10%

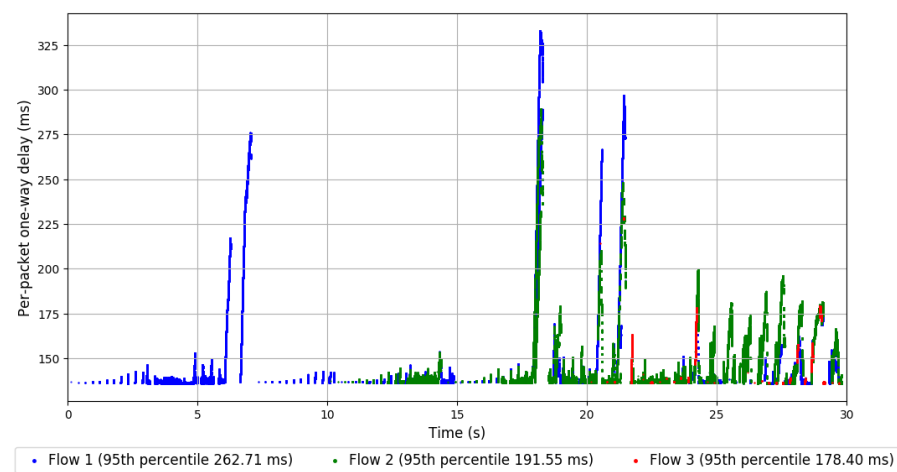
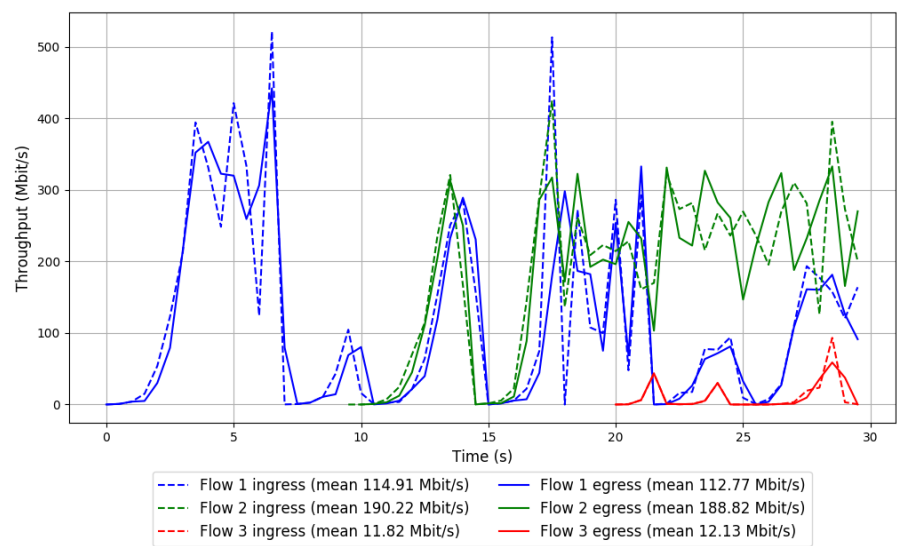
-- Flow 3:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 178.404 ms

Loss rate: 0.16%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-10 05:48:28

End at: 2018-01-10 05:48:58

Below is generated by plot.py at 2018-01-10 09:45:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.57 Mbit/s

95th percentile per-packet one-way delay: 150.934 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 257.09 Mbit/s

95th percentile per-packet one-way delay: 147.967 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 153.769 ms

Loss rate: 0.78%

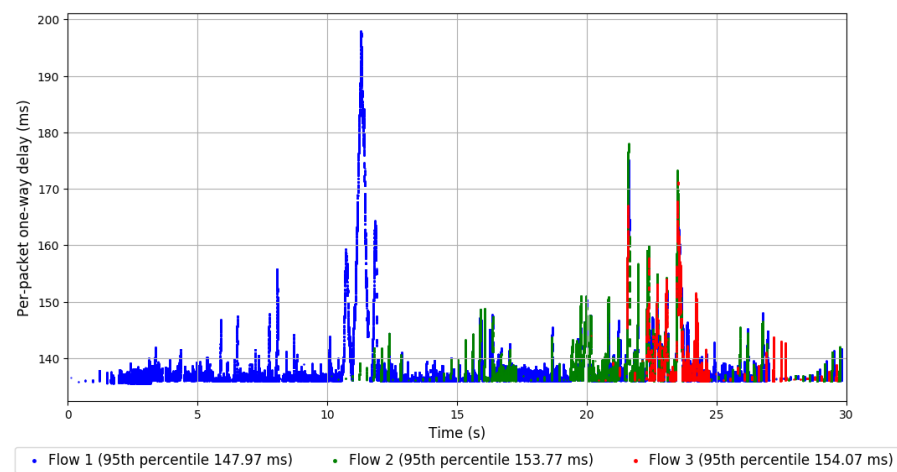
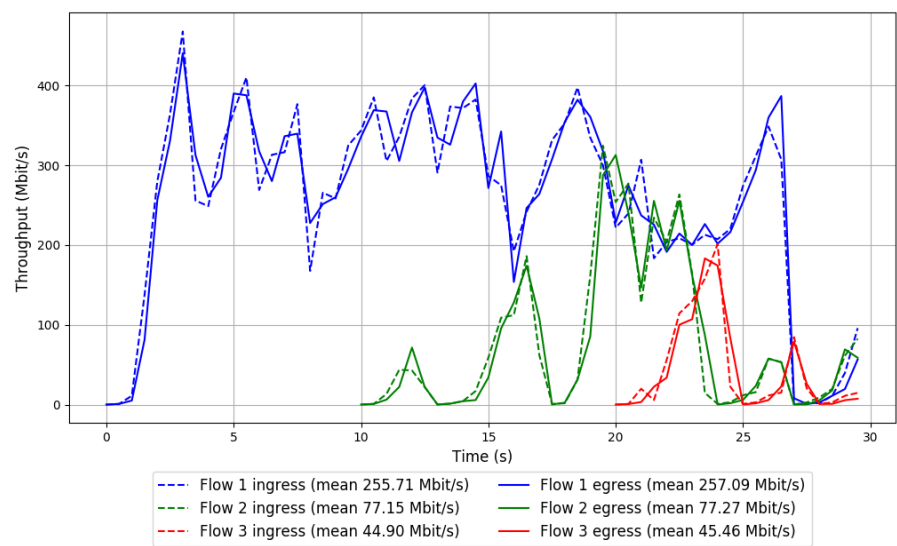
-- Flow 3:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 154.070 ms

Loss rate: 1.69%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-10 06:04:35

End at: 2018-01-10 06:05:05

Below is generated by plot.py at 2018-01-10 09:45:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.64 Mbit/s

95th percentile per-packet one-way delay: 234.053 ms

Loss rate: 4.99%

-- Flow 1:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 260.688 ms

Loss rate: 4.15%

-- Flow 2:

Average throughput: 45.58 Mbit/s

95th percentile per-packet one-way delay: 174.725 ms

Loss rate: 7.36%

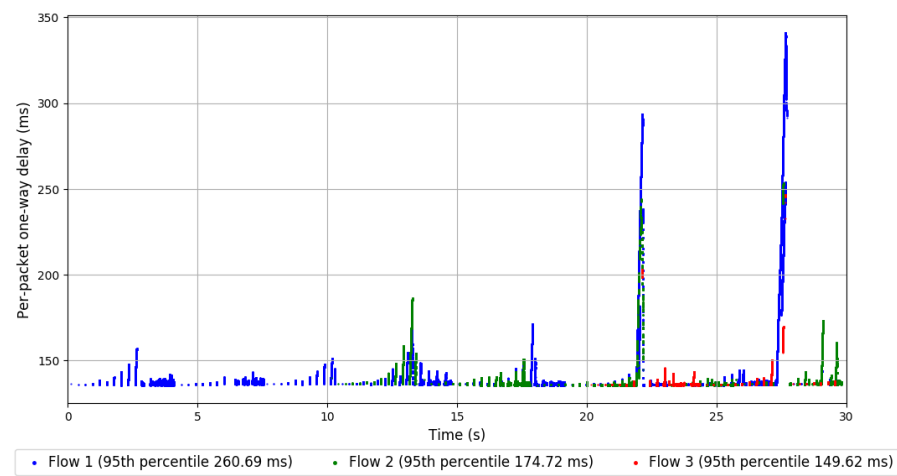
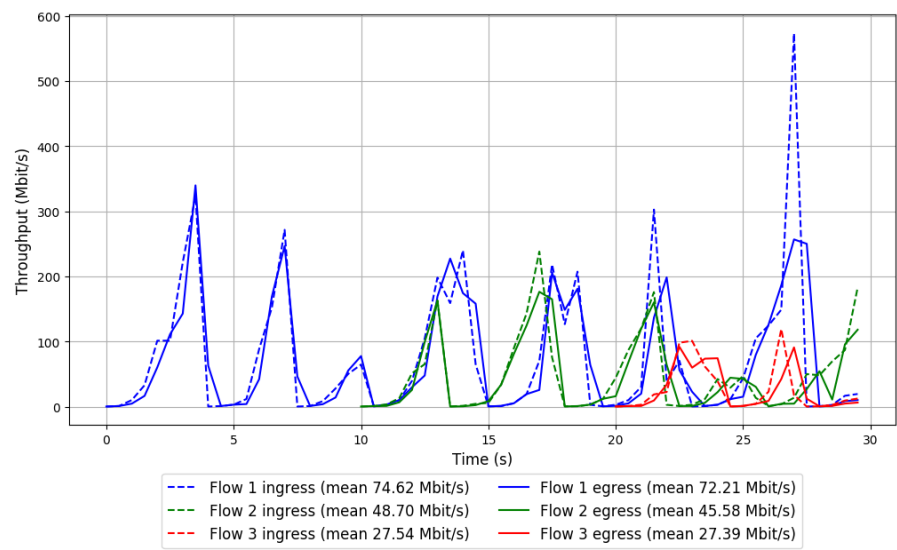
-- Flow 3:

Average throughput: 27.39 Mbit/s

95th percentile per-packet one-way delay: 149.620 ms

Loss rate: 3.37%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-10 06:20:07

End at: 2018-01-10 06:20:37

Below is generated by plot.py at 2018-01-10 09:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.76 Mbit/s

95th percentile per-packet one-way delay: 265.186 ms

Loss rate: 3.91%

-- Flow 1:

Average throughput: 172.40 Mbit/s

95th percentile per-packet one-way delay: 221.613 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 173.24 Mbit/s

95th percentile per-packet one-way delay: 329.058 ms

Loss rate: 5.14%

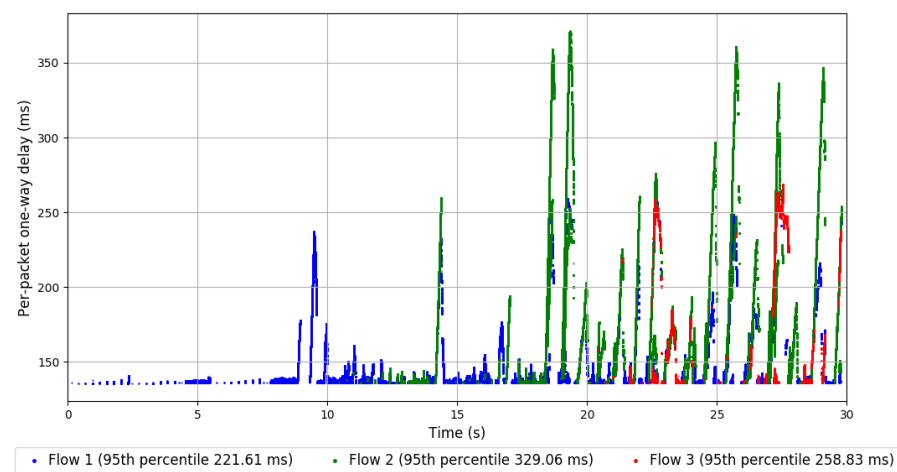
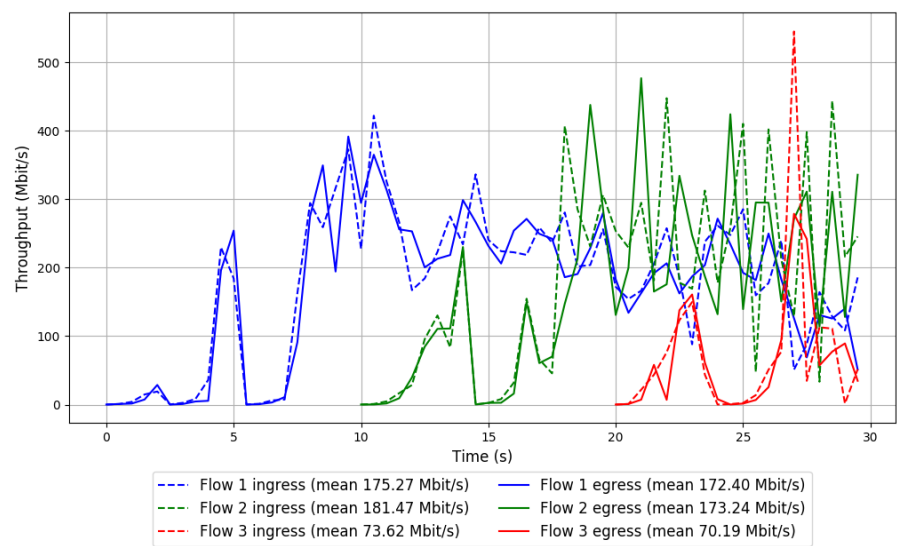
-- Flow 3:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 258.831 ms

Loss rate: 7.71%

Run 10: Report of Verus — Data Link

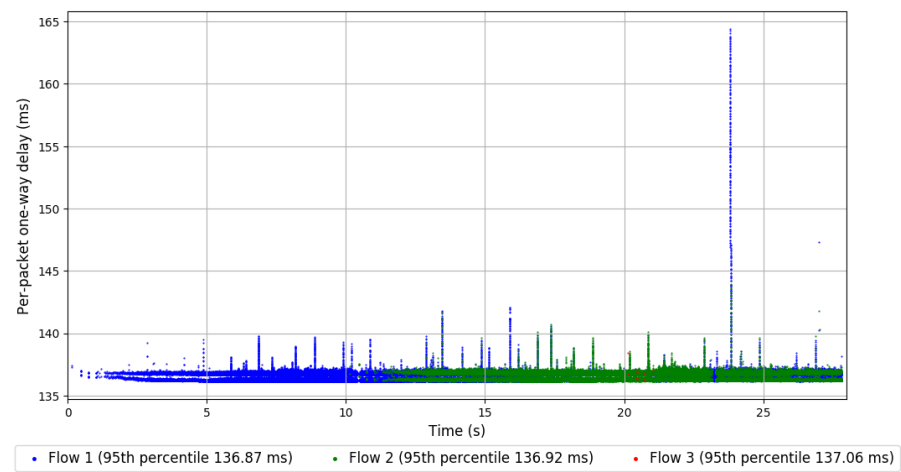
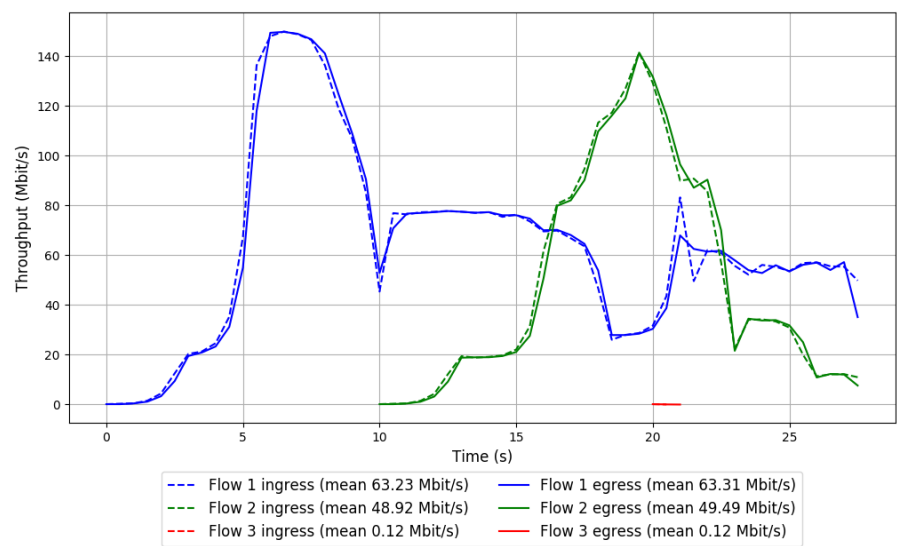


```
Run 1: Statistics of Copa

Start at: 2018-01-10 04:04:30
End at: 2018-01-10 04:05:00

# Below is generated by plot.py at 2018-01-10 09:46:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 136.886 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 63.31 Mbit/s
95th percentile per-packet one-way delay: 136.866 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 136.920 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 137.063 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-10 04:20:11

End at: 2018-01-10 04:20:41

Below is generated by plot.py at 2018-01-10 09:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 161.492 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 161.474 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 161.526 ms

Loss rate: 0.46%

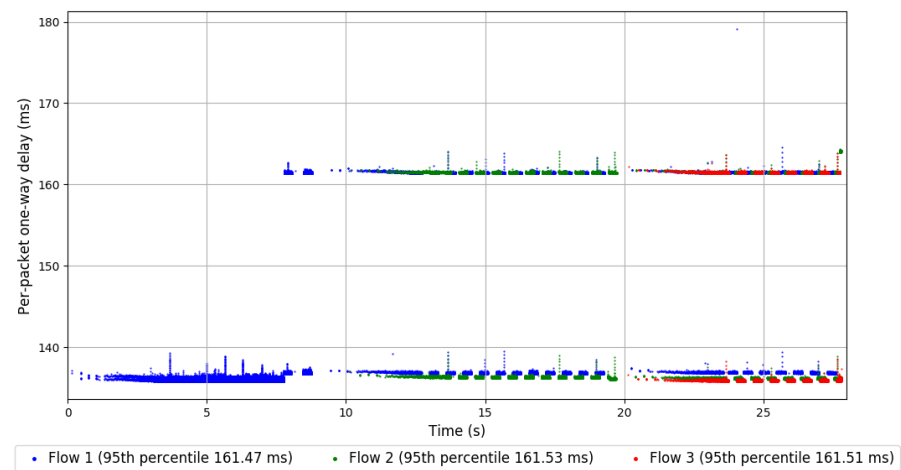
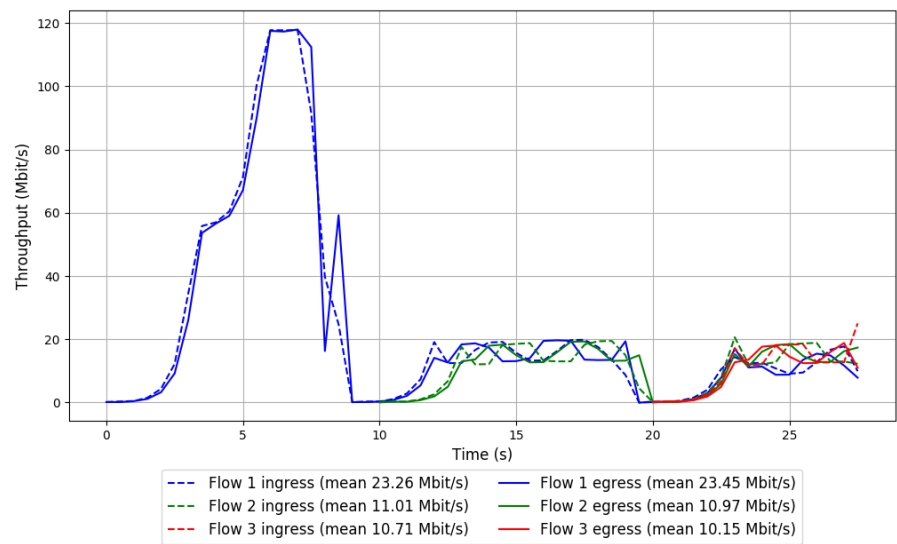
-- Flow 3:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 161.511 ms

Loss rate: 8.55%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-10 04:34:52

End at: 2018-01-10 04:35:22

Below is generated by plot.py at 2018-01-10 09:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.69 Mbit/s

95th percentile per-packet one-way delay: 164.190 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 69.39 Mbit/s

95th percentile per-packet one-way delay: 164.174 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 46.91 Mbit/s

95th percentile per-packet one-way delay: 166.091 ms

Loss rate: 0.77%

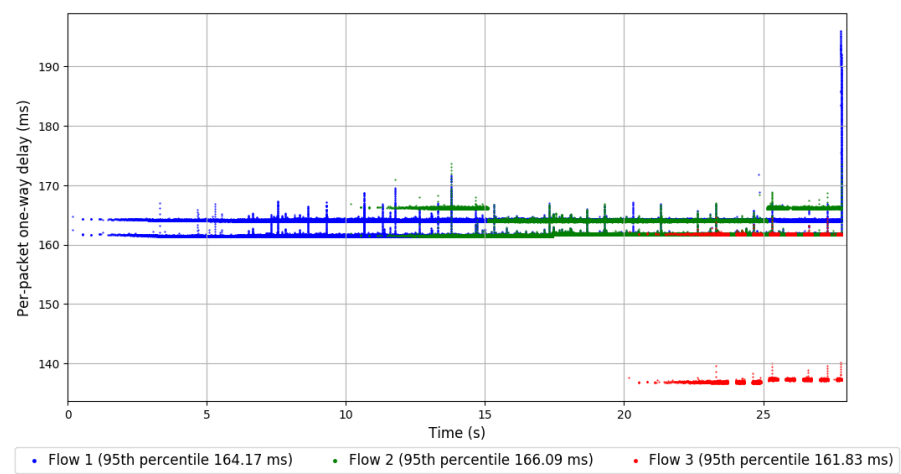
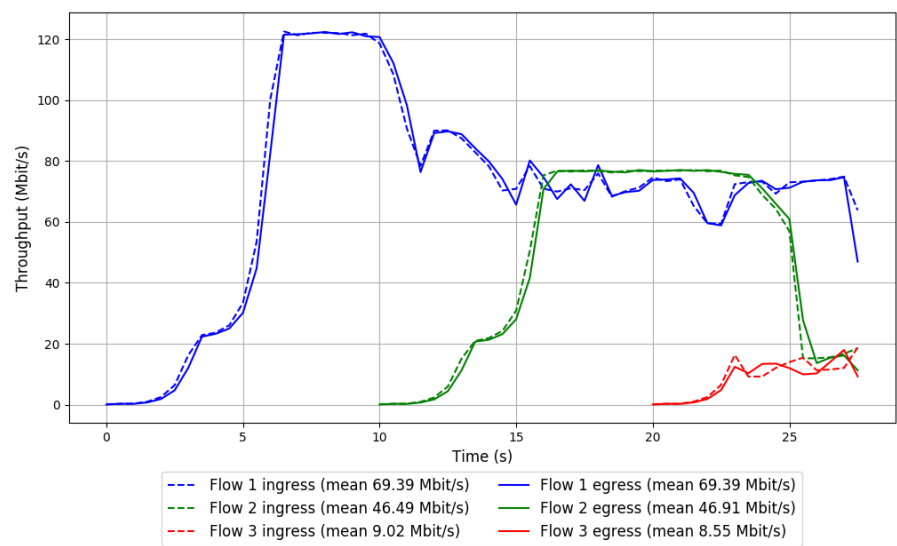
-- Flow 3:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 161.834 ms

Loss rate: 6.78%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-10 04:50:48

End at: 2018-01-10 04:51:18

Below is generated by plot.py at 2018-01-10 09:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.40 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 136.703 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 27.87 Mbit/s

95th percentile per-packet one-way delay: 159.843 ms

Loss rate: 0.58%

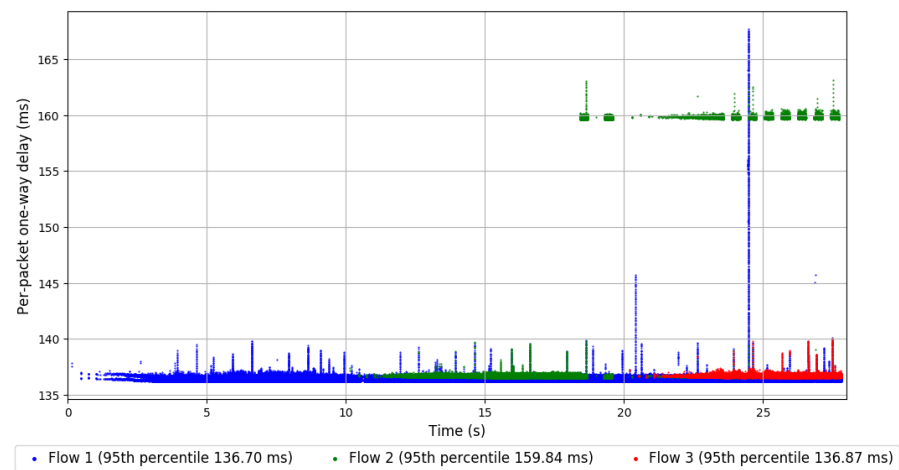
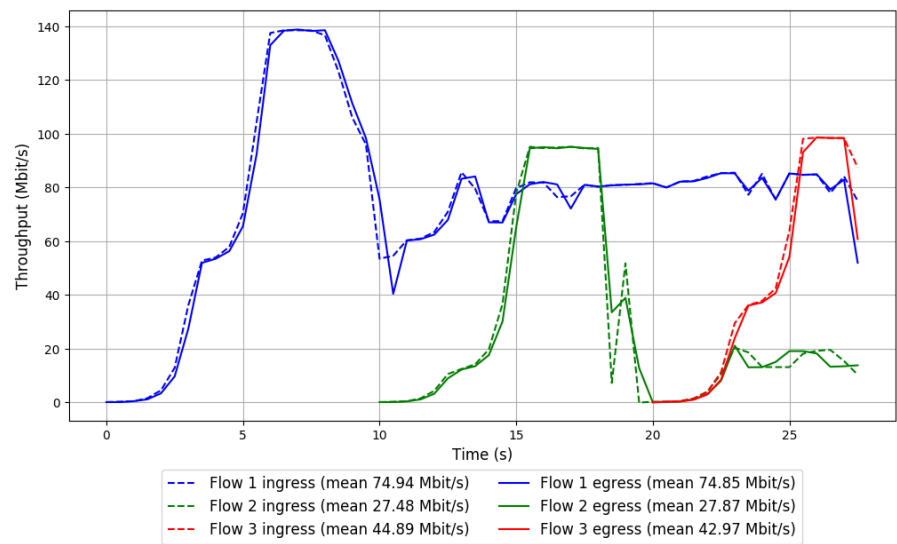
-- Flow 3:

Average throughput: 42.97 Mbit/s

95th percentile per-packet one-way delay: 136.870 ms

Loss rate: 7.57%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-10 05:06:55

End at: 2018-01-10 05:07:25

Below is generated by plot.py at 2018-01-10 09:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.65 Mbit/s

95th percentile per-packet one-way delay: 137.121 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 137.133 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 137.110 ms

Loss rate: 1.04%

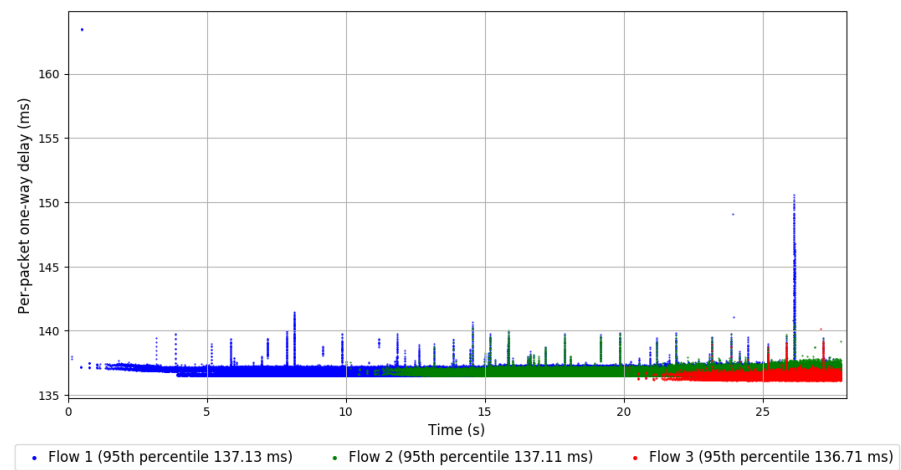
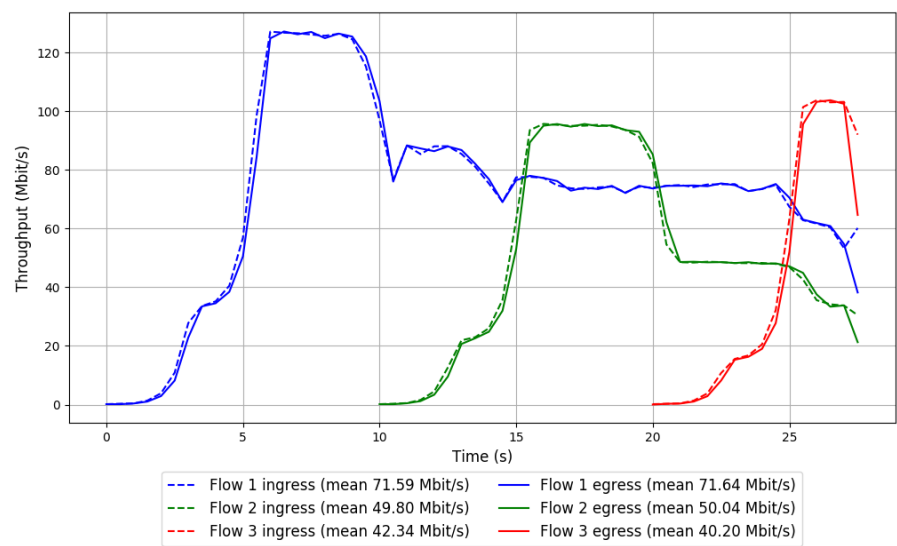
-- Flow 3:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 8.33%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-10 05:23:09

End at: 2018-01-10 05:23:39

Below is generated by plot.py at 2018-01-10 09:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 163.612 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 50.74 Mbit/s

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

Loss rate: 0.35%

-- Flow 2:

Average throughput: 9.30 Mbit/s

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

Loss rate: 0.14%

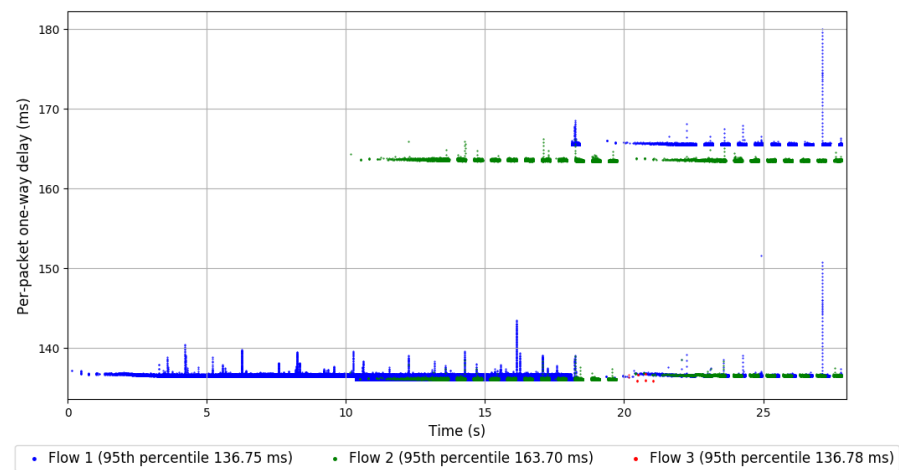
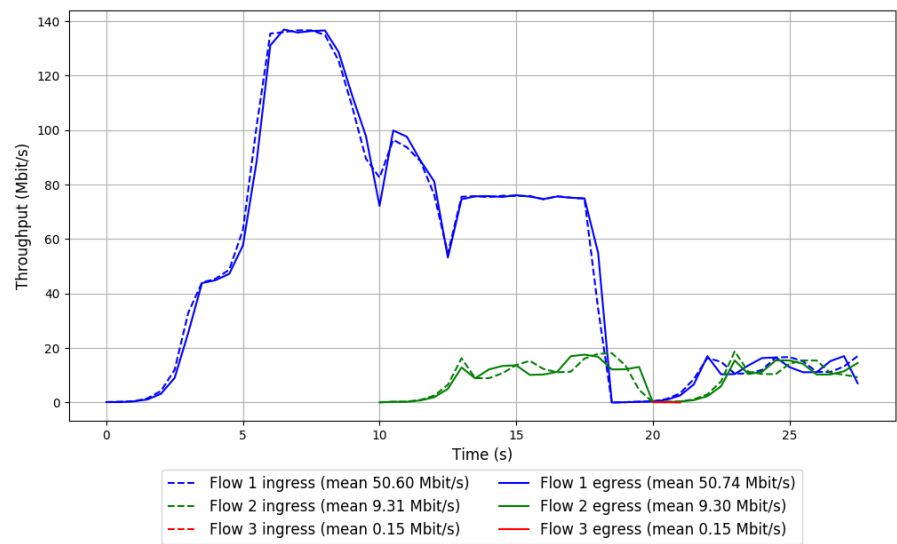
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.784 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-10 05:39:16

End at: 2018-01-10 05:39:46

Below is generated by plot.py at 2018-01-10 09:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 136.195 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 136.195 ms

Loss rate: 1.65%

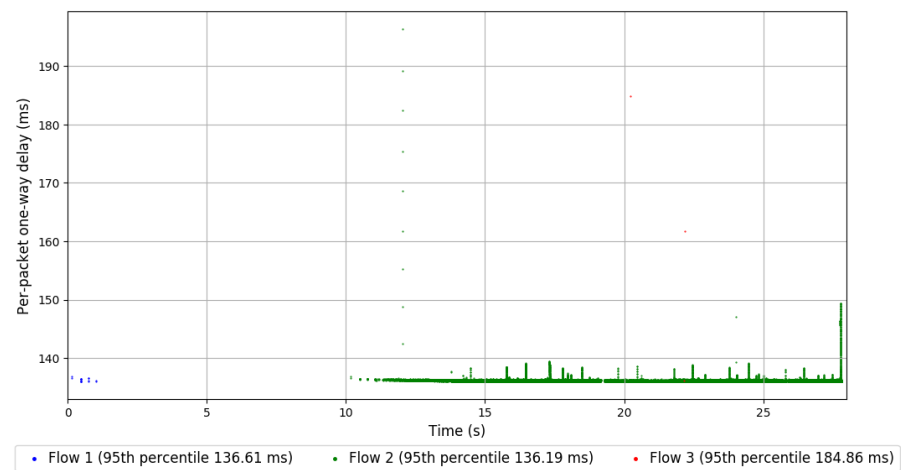
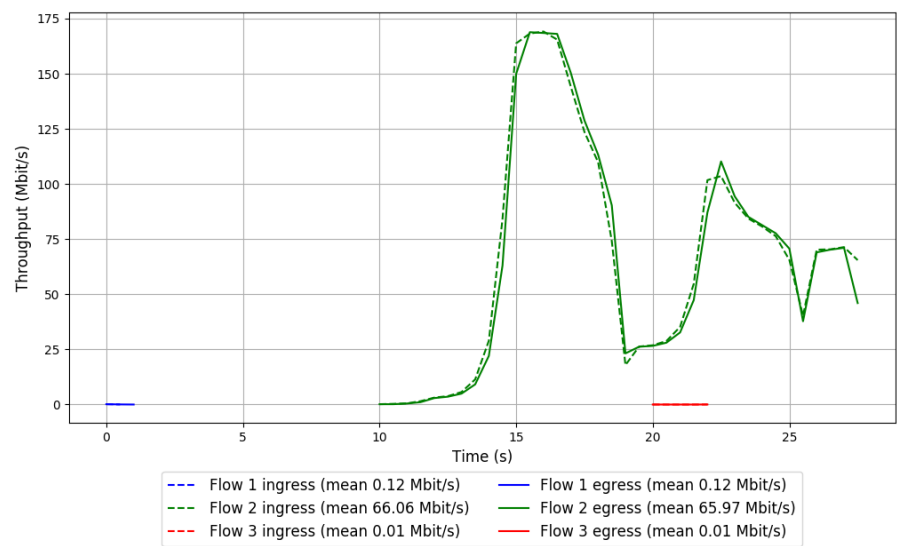
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 184.863 ms

Loss rate: 46.17%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-10 05:55:29

End at: 2018-01-10 05:55:59

Below is generated by plot.py at 2018-01-10 09:46:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 136.171 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 136.165 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 164.064 ms

Loss rate: 0.00%

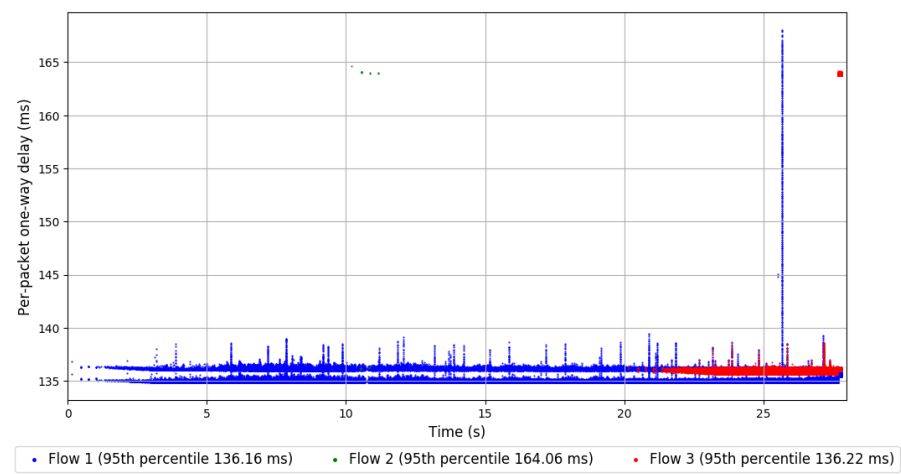
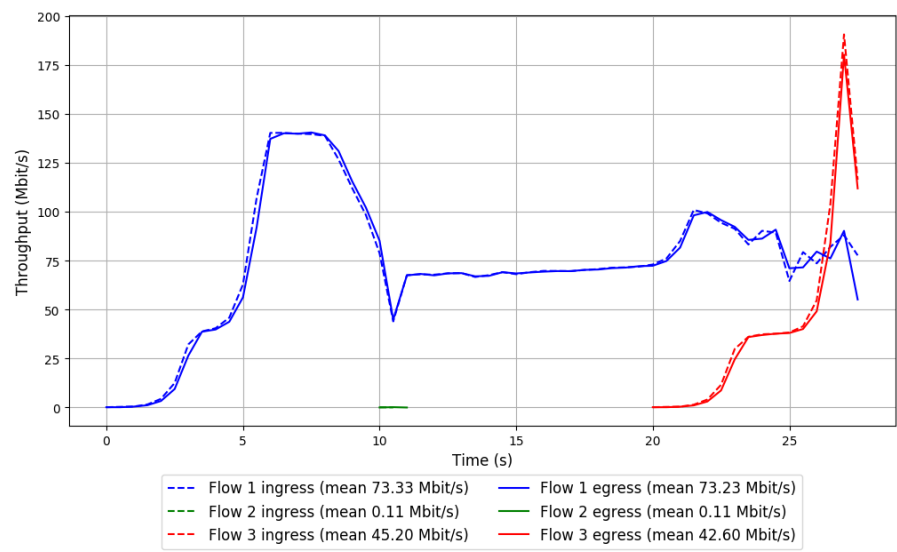
-- Flow 3:

Average throughput: 42.60 Mbit/s

95th percentile per-packet one-way delay: 136.218 ms

Loss rate: 7.41%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-10 06:11:18

End at: 2018-01-10 06:11:48

Below is generated by plot.py at 2018-01-10 09:46:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 163.385 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 163.766 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 163.406 ms

Loss rate: 0.28%

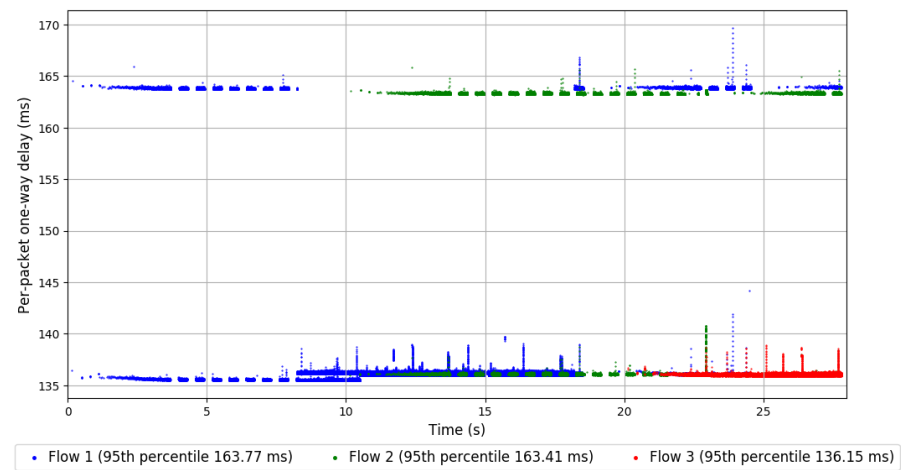
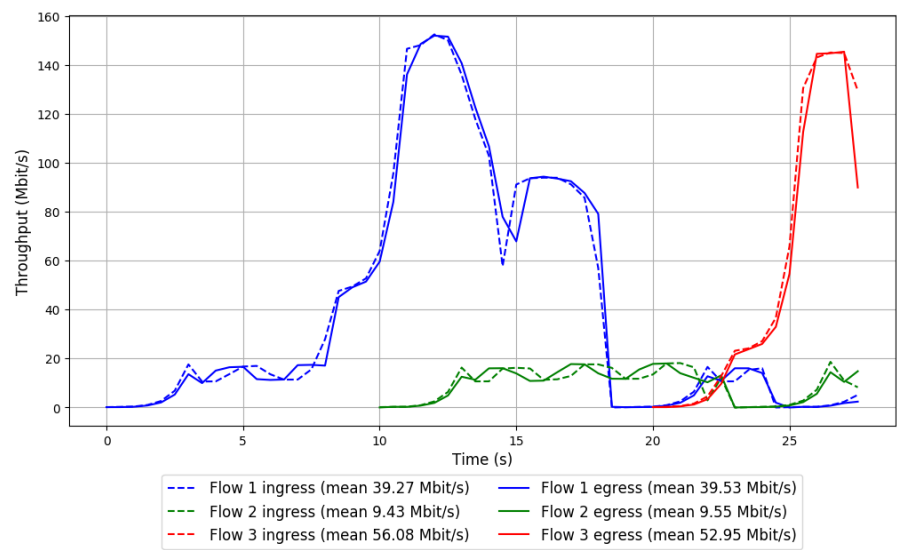
-- Flow 3:

Average throughput: 52.95 Mbit/s

95th percentile per-packet one-way delay: 136.151 ms

Loss rate: 8.84%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-10 06:27:10

End at: 2018-01-10 06:27:40

Below is generated by plot.py at 2018-01-10 09:47:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 136.377 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 136.293 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 163.871 ms

Loss rate: 1.50%

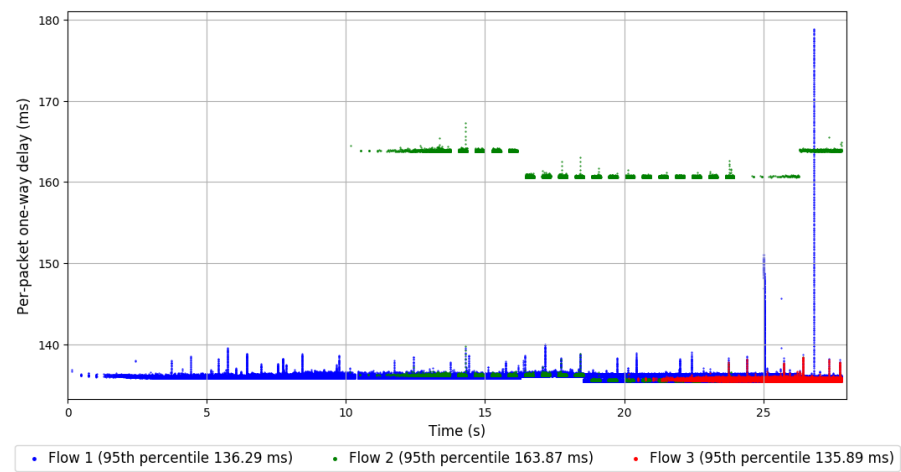
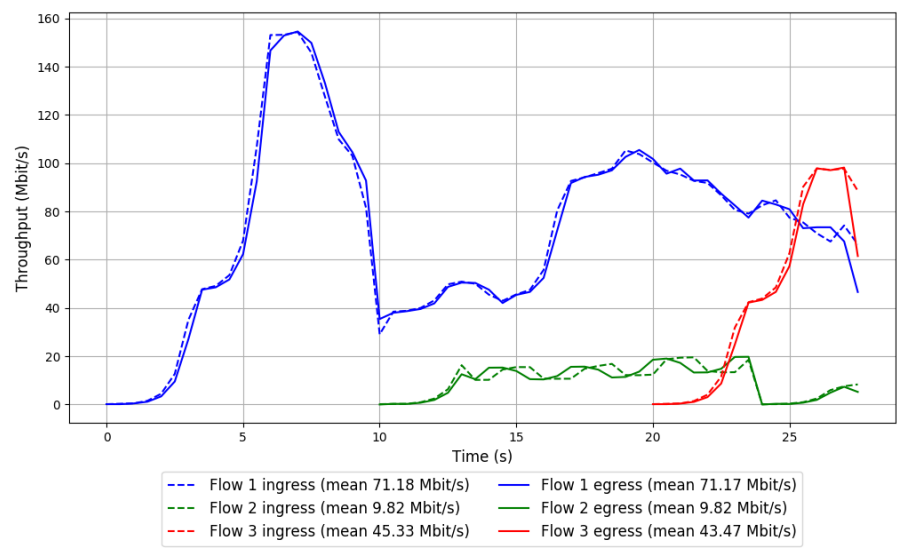
-- Flow 3:

Average throughput: 43.47 Mbit/s

95th percentile per-packet one-way delay: 135.887 ms

Loss rate: 7.40%

Run 10: Report of Copa — Data Link

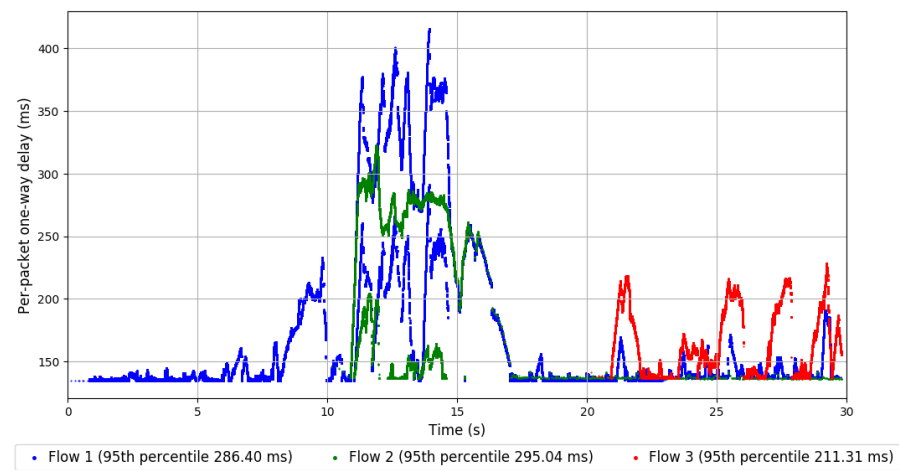
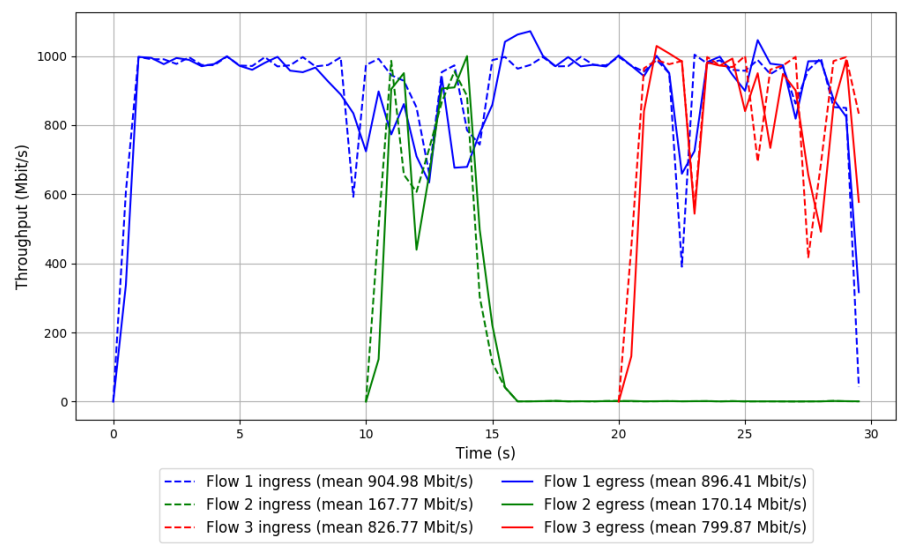


```
Run 1: Statistics of FillP

Start at: 2018-01-10 03:52:16
End at: 2018-01-10 03:52:46

# Below is generated by plot.py at 2018-01-10 10:05:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1268.38 Mbit/s
95th percentile per-packet one-way delay: 282.335 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 896.41 Mbit/s
95th percentile per-packet one-way delay: 286.402 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 170.14 Mbit/s
95th percentile per-packet one-way delay: 295.041 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 799.87 Mbit/s
95th percentile per-packet one-way delay: 211.313 ms
Loss rate: 5.96%
```


Run 1: Report of FillP — Data Link

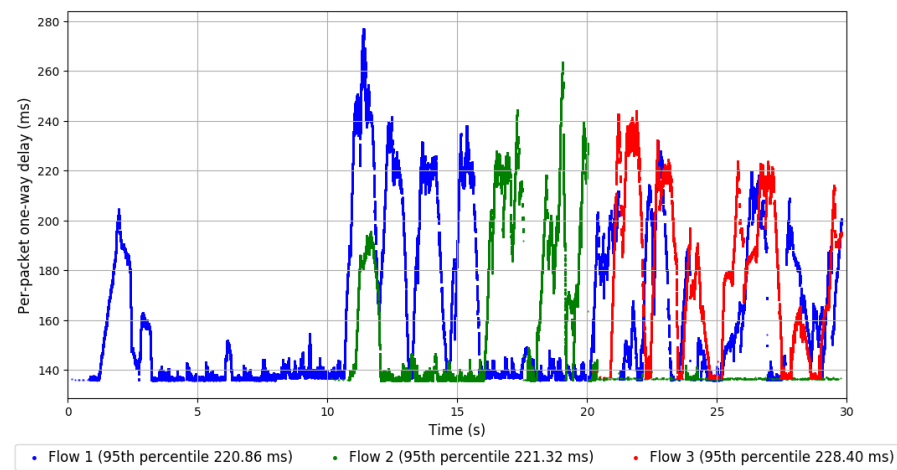
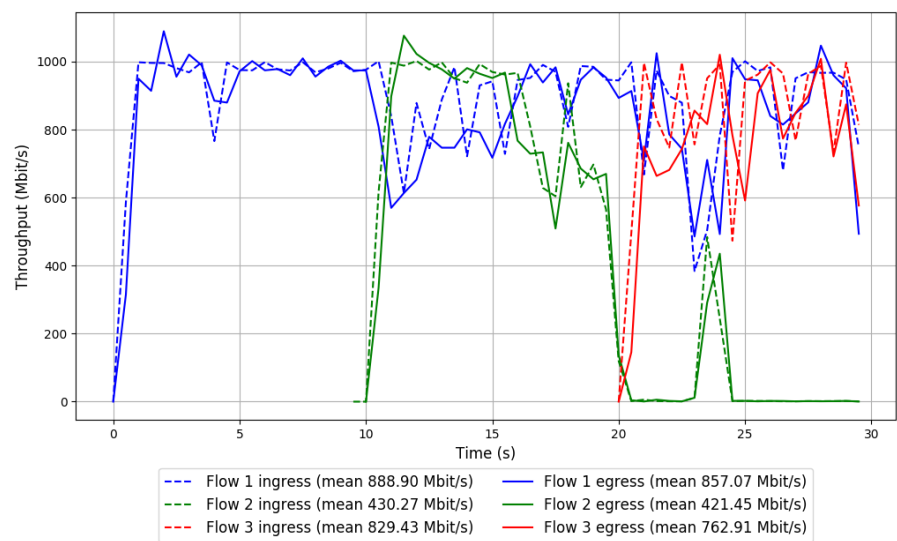


```
Run 2: Statistics of FillP

Start at: 2018-01-10 04:08:11
End at: 2018-01-10 04:08:41

# Below is generated by plot.py at 2018-01-10 10:07:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1382.59 Mbit/s
95th percentile per-packet one-way delay: 221.776 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 857.07 Mbit/s
95th percentile per-packet one-way delay: 220.860 ms
Loss rate: 4.30%
-- Flow 2:
Average throughput: 421.45 Mbit/s
95th percentile per-packet one-way delay: 221.325 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 762.91 Mbit/s
95th percentile per-packet one-way delay: 228.398 ms
Loss rate: 10.61%
```

Run 2: Report of FillP — Data Link

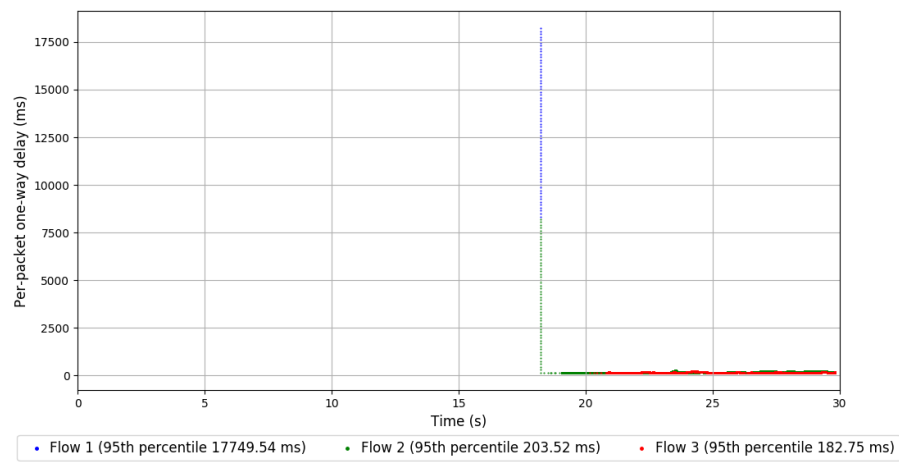
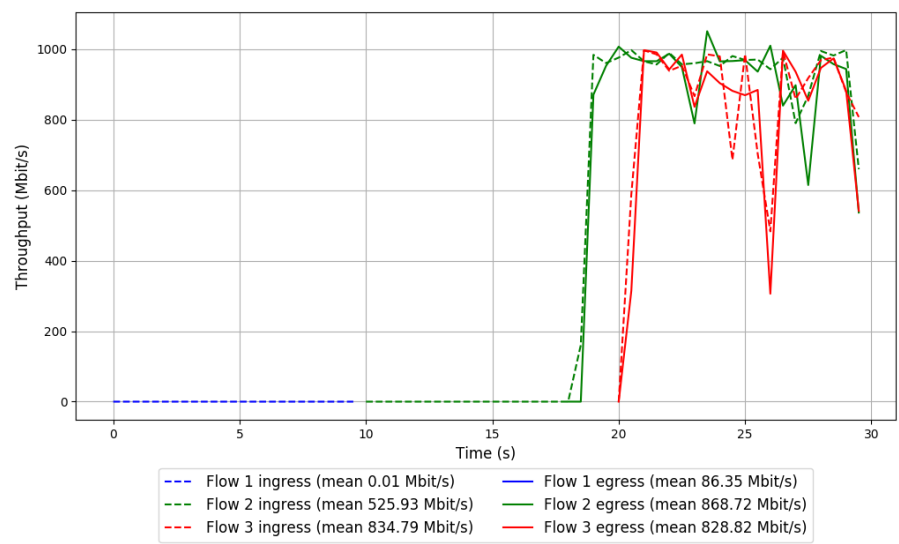


Run 3: Statistics of FillP

Start at: 2018-01-10 04:22:58

End at: 2018-01-10 04:23:28

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-10 04:38:07

End at: 2018-01-10 04:38:37

Below is generated by plot.py at 2018-01-10 10:11:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 1578.81 Mbit/s

95th percentile per-packet one-way delay: 245.169 ms

Loss rate: 7.43%

-- Flow 1:

Average throughput: 845.93 Mbit/s

95th percentile per-packet one-way delay: 244.400 ms

Loss rate: 4.36%

-- Flow 2:

Average throughput: 783.69 Mbit/s

95th percentile per-packet one-way delay: 246.126 ms

Loss rate: 9.40%

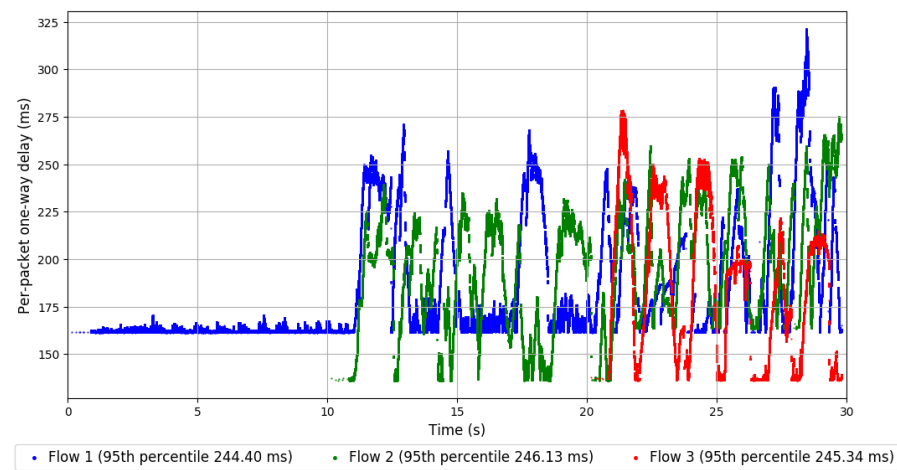
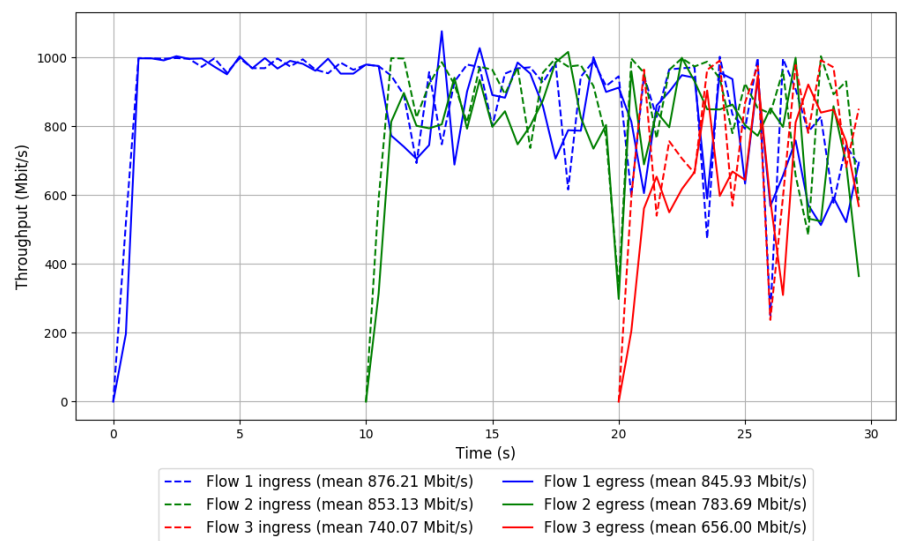
-- Flow 3:

Average throughput: 656.00 Mbit/s

95th percentile per-packet one-way delay: 245.336 ms

Loss rate: 13.81%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-10 04:54:02

End at: 2018-01-10 04:54:32

Below is generated by plot.py at 2018-01-10 10:11:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1561.20 Mbit/s

95th percentile per-packet one-way delay: 219.009 ms

Loss rate: 7.61%

-- Flow 1:

Average throughput: 836.58 Mbit/s

95th percentile per-packet one-way delay: 218.461 ms

Loss rate: 5.49%

-- Flow 2:

Average throughput: 753.53 Mbit/s

95th percentile per-packet one-way delay: 220.270 ms

Loss rate: 9.36%

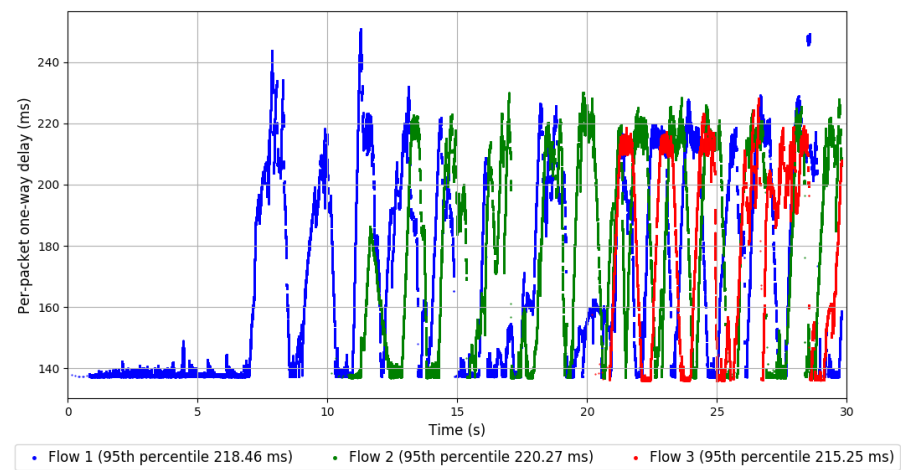
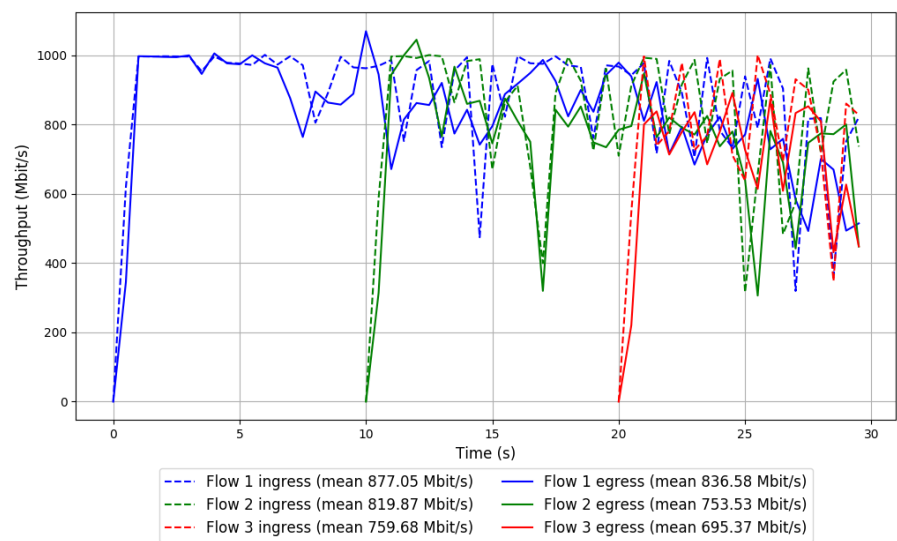
-- Flow 3:

Average throughput: 695.37 Mbit/s

95th percentile per-packet one-way delay: 215.247 ms

Loss rate: 11.18%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-10 05:10:32

End at: 2018-01-10 05:11:02

Below is generated by plot.py at 2018-01-10 10:13:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 1642.71 Mbit/s

95th percentile per-packet one-way delay: 242.353 ms

Loss rate: 6.22%

-- Flow 1:

Average throughput: 851.73 Mbit/s

95th percentile per-packet one-way delay: 244.244 ms

Loss rate: 5.29%

-- Flow 2:

Average throughput: 824.34 Mbit/s

95th percentile per-packet one-way delay: 242.337 ms

Loss rate: 5.74%

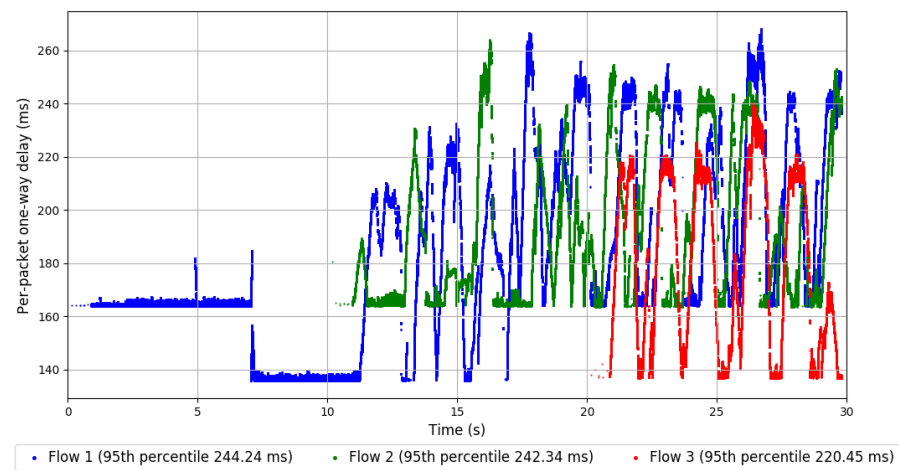
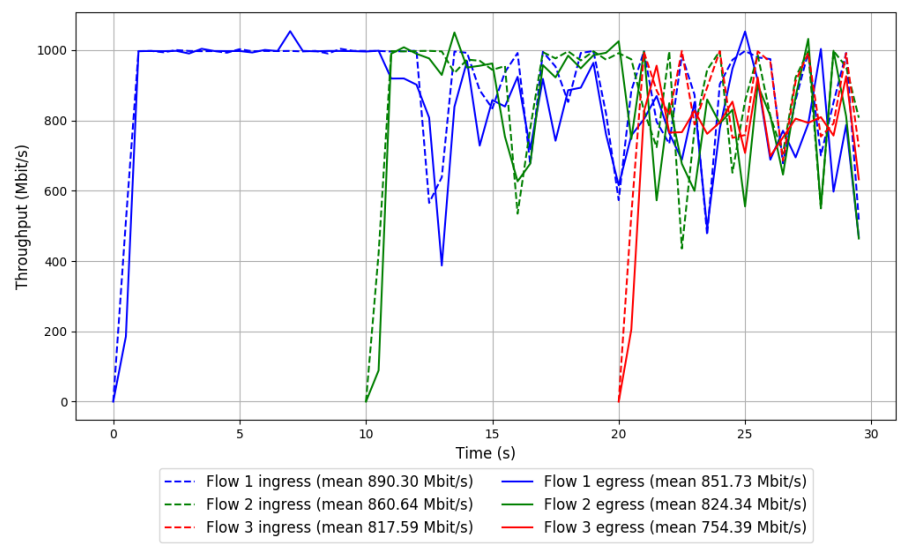
-- Flow 3:

Average throughput: 754.39 Mbit/s

95th percentile per-packet one-way delay: 220.453 ms

Loss rate: 10.28%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-10 05:26:29

End at: 2018-01-10 05:26:59

Below is generated by plot.py at 2018-01-10 10:14:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 1630.88 Mbit/s

95th percentile per-packet one-way delay: 346.713 ms

Loss rate: 7.11%

-- Flow 1:

Average throughput: 870.73 Mbit/s

95th percentile per-packet one-way delay: 213.112 ms

Loss rate: 4.10%

-- Flow 2:

Average throughput: 817.90 Mbit/s

95th percentile per-packet one-way delay: 355.773 ms

Loss rate: 8.42%

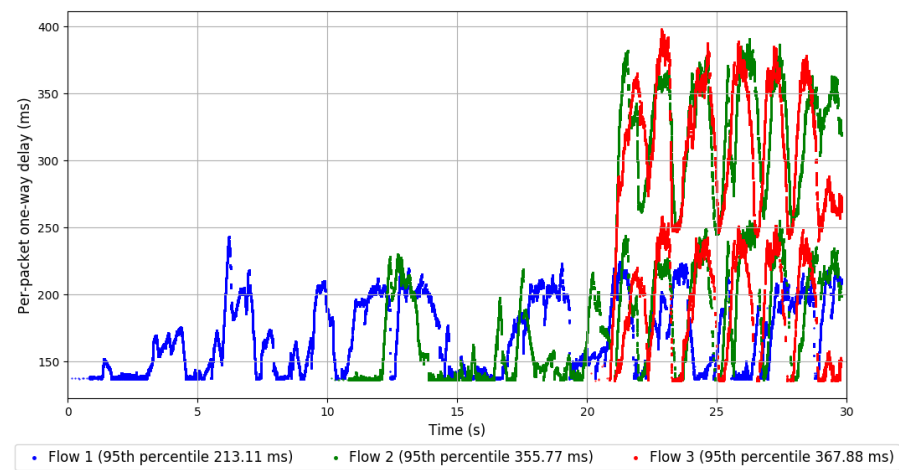
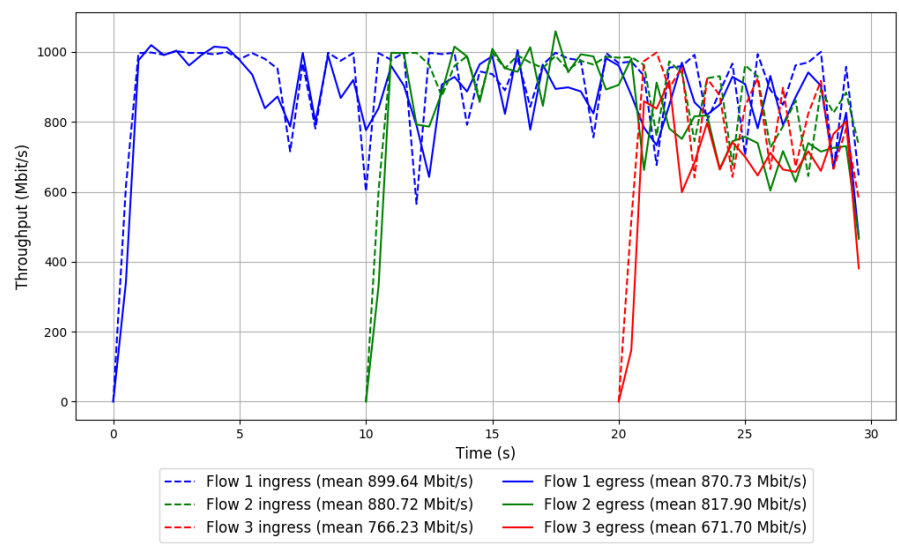
-- Flow 3:

Average throughput: 671.70 Mbit/s

95th percentile per-packet one-way delay: 367.876 ms

Loss rate: 14.78%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-10 05:42:38

End at: 2018-01-10 05:43:08

Below is generated by plot.py at 2018-01-10 10:14:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 1639.74 Mbit/s

95th percentile per-packet one-way delay: 232.323 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 815.78 Mbit/s

95th percentile per-packet one-way delay: 242.939 ms

Loss rate: 4.89%

-- Flow 2:

Average throughput: 835.16 Mbit/s

95th percentile per-packet one-way delay: 211.533 ms

Loss rate: 5.61%

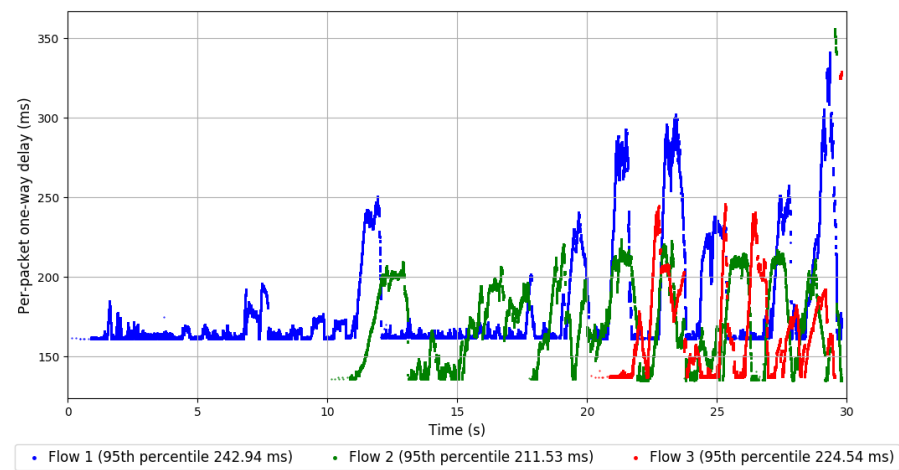
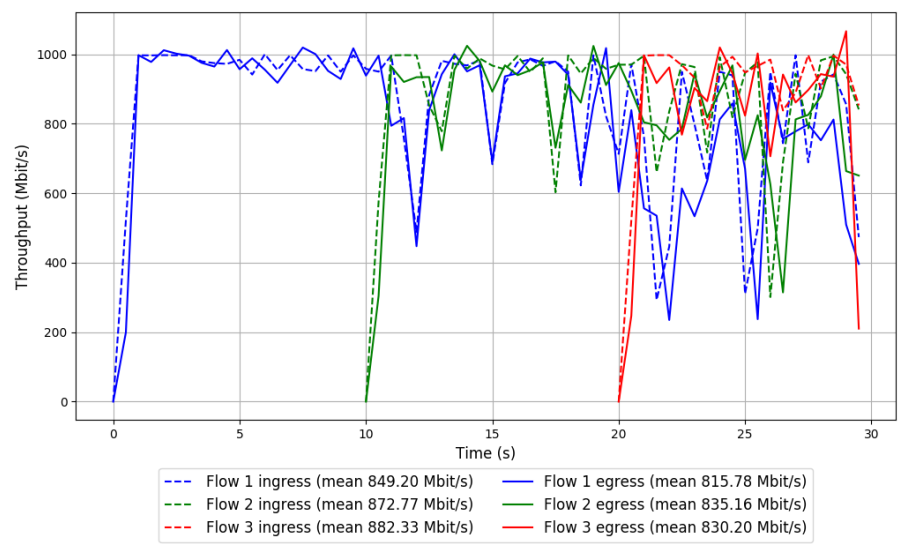
-- Flow 3:

Average throughput: 830.20 Mbit/s

95th percentile per-packet one-way delay: 224.541 ms

Loss rate: 8.51%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-10 05:58:56

End at: 2018-01-10 05:59:26

Below is generated by plot.py at 2018-01-10 10:19:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 1275.27 Mbit/s

95th percentile per-packet one-way delay: 209.189 ms

Loss rate: 3.04%

-- Flow 1:

Average throughput: 659.03 Mbit/s

95th percentile per-packet one-way delay: 202.132 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 523.46 Mbit/s

95th percentile per-packet one-way delay: 226.035 ms

Loss rate: 6.48%

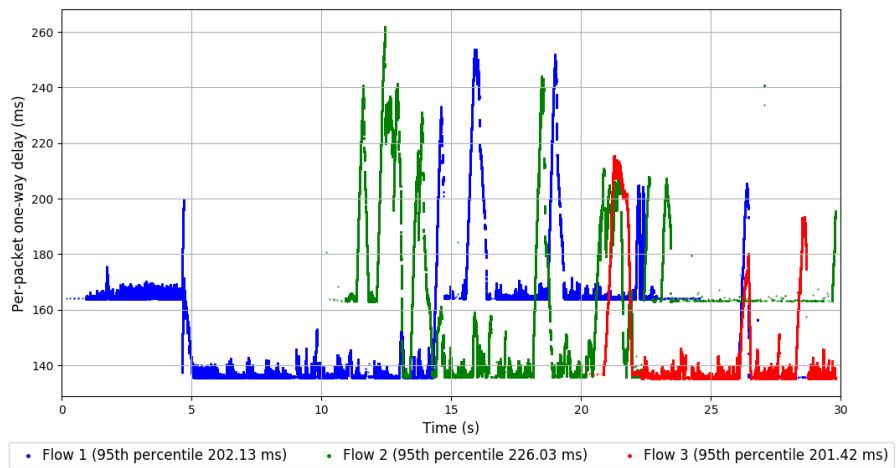
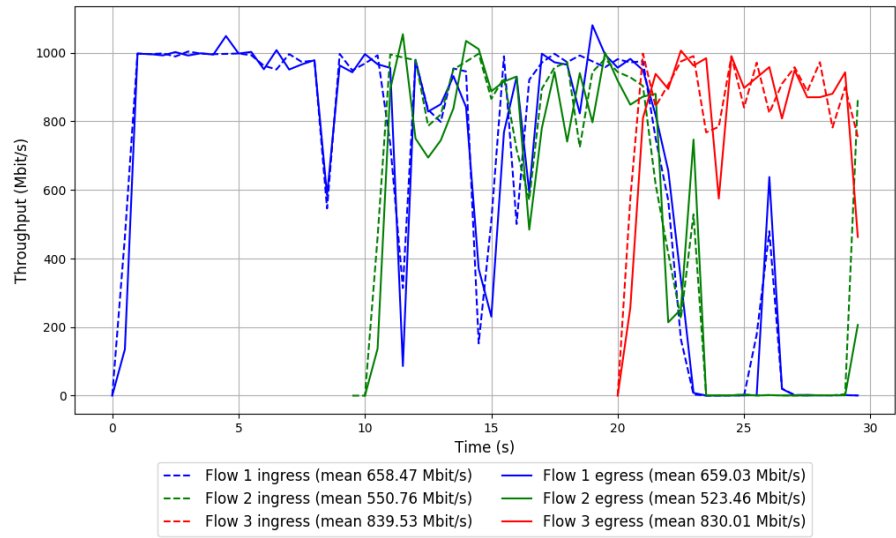
-- Flow 3:

Average throughput: 830.01 Mbit/s

95th percentile per-packet one-way delay: 201.421 ms

Loss rate: 3.88%

Run 9: Report of FillP — Data Link

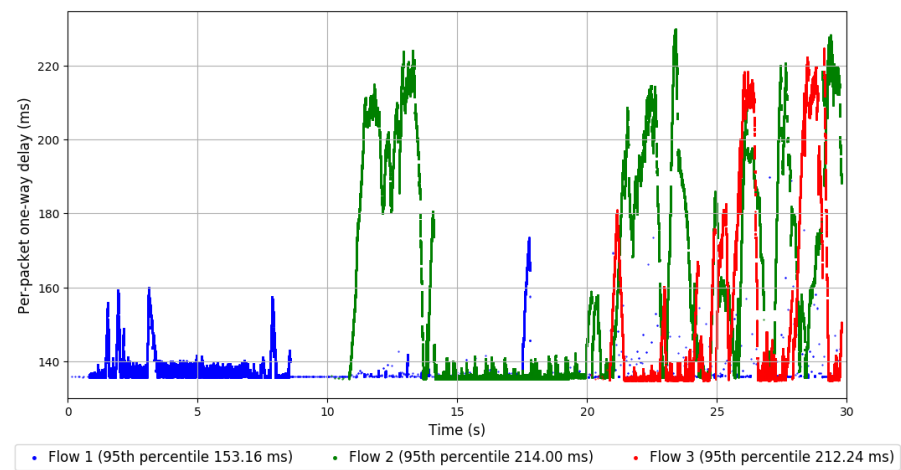
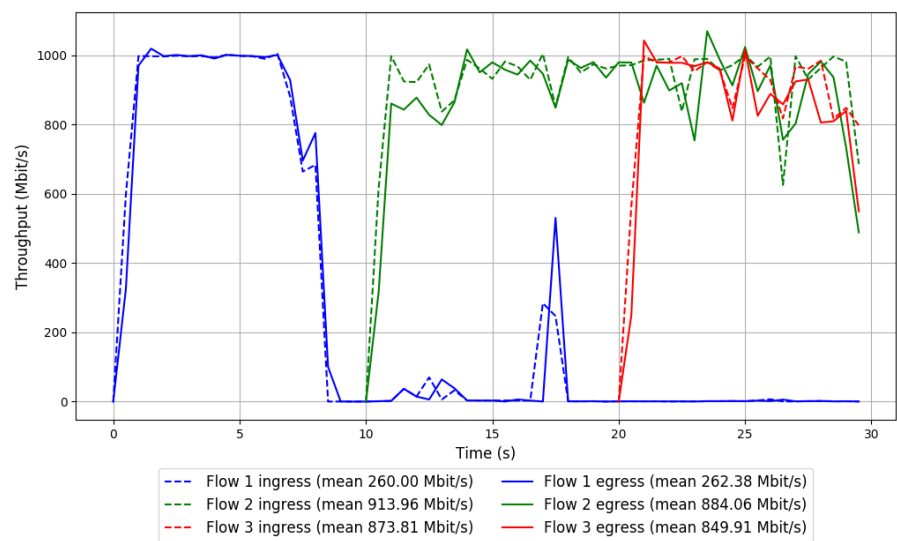


```
Run 10: Statistics of FillP

Start at: 2018-01-10 06:14:32
End at: 2018-01-10 06:15:02

# Below is generated by plot.py at 2018-01-10 10:20:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1124.06 Mbit/s
95th percentile per-packet one-way delay: 211.218 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 262.38 Mbit/s
95th percentile per-packet one-way delay: 153.162 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 884.06 Mbit/s
95th percentile per-packet one-way delay: 214.003 ms
Loss rate: 4.60%
-- Flow 3:
Average throughput: 849.91 Mbit/s
95th percentile per-packet one-way delay: 212.237 ms
Loss rate: 5.42%
```

Run 10: Report of FillP — Data Link

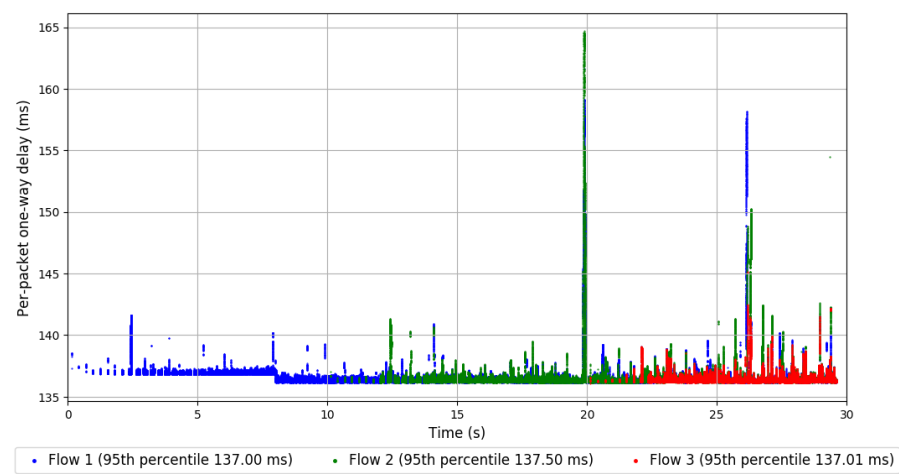
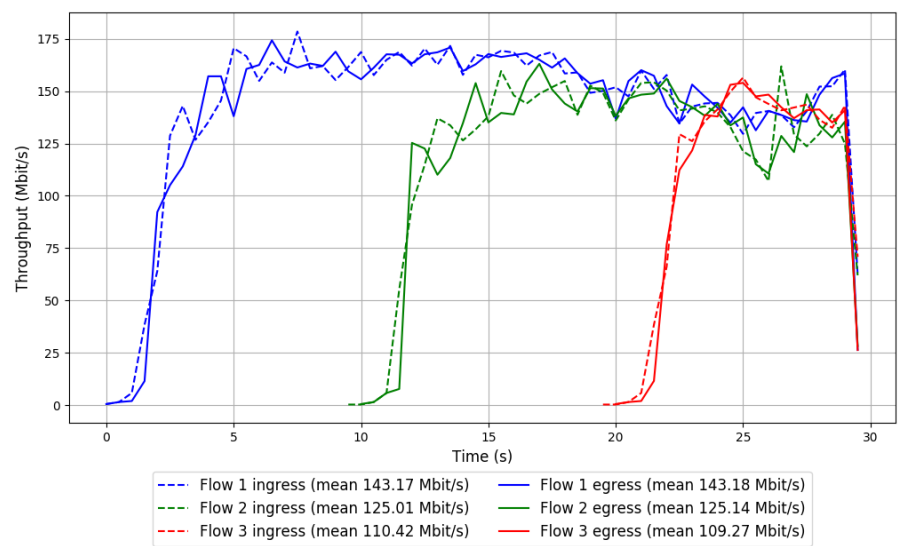


```
Run 1: Statistics of Indigo

Start at: 2018-01-10 03:59:53
End at: 2018-01-10 04:00:23

# Below is generated by plot.py at 2018-01-10 10:20:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.07 Mbit/s
95th percentile per-packet one-way delay: 137.044 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 143.18 Mbit/s
95th percentile per-packet one-way delay: 136.998 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 125.14 Mbit/s
95th percentile per-packet one-way delay: 137.502 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 109.27 Mbit/s
95th percentile per-packet one-way delay: 137.013 ms
Loss rate: 3.81%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-10 04:15:38

End at: 2018-01-10 04:16:08

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.77 Mbit/s

95th percentile per-packet one-way delay: 161.674 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 161.610 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 161.852 ms

Loss rate: 1.03%

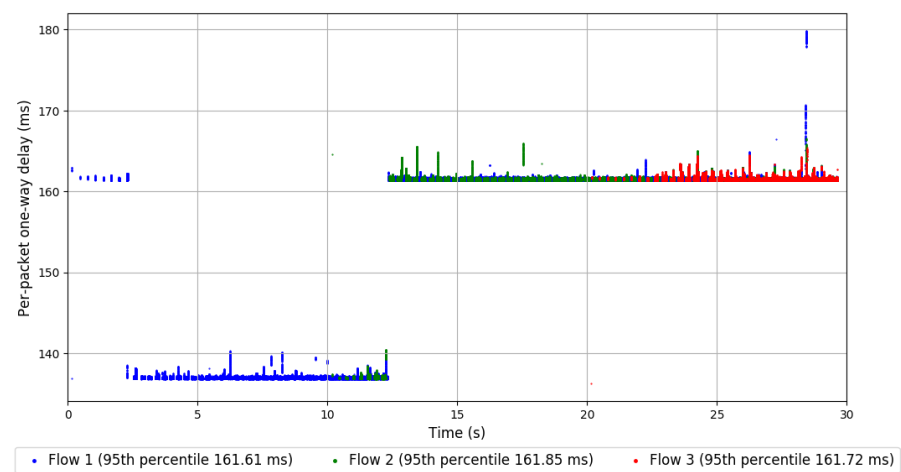
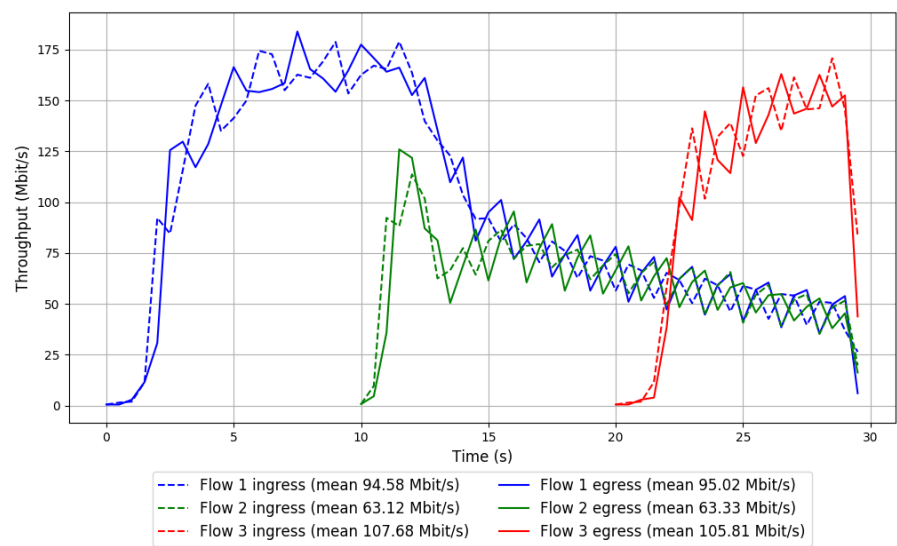
-- Flow 3:

Average throughput: 105.81 Mbit/s

95th percentile per-packet one-way delay: 161.718 ms

Loss rate: 4.47%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-10 04:30:13

End at: 2018-01-10 04:30:43

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.23 Mbit/s

95th percentile per-packet one-way delay: 161.985 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 137.01 Mbit/s

95th percentile per-packet one-way delay: 161.803 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 123.68 Mbit/s

95th percentile per-packet one-way delay: 162.059 ms

Loss rate: 1.53%

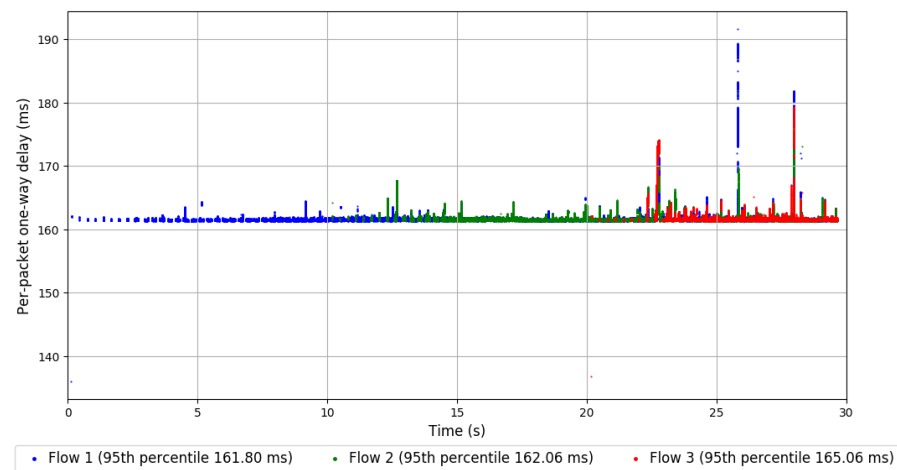
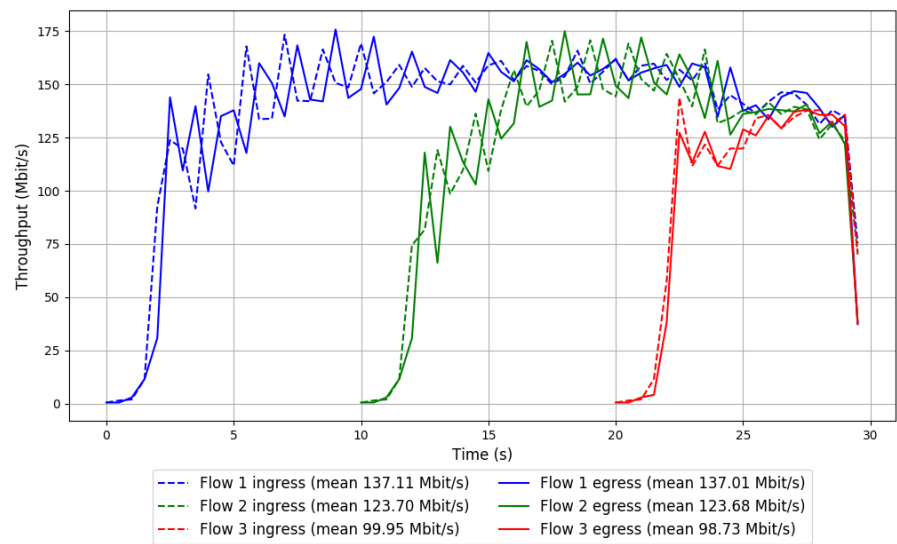
-- Flow 3:

Average throughput: 98.73 Mbit/s

95th percentile per-packet one-way delay: 165.057 ms

Loss rate: 4.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-10 04:46:05

End at: 2018-01-10 04:46:35

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.42 Mbit/s

95th percentile per-packet one-way delay: 137.985 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 147.19 Mbit/s

95th percentile per-packet one-way delay: 137.691 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 137.44 Mbit/s

95th percentile per-packet one-way delay: 137.875 ms

Loss rate: 1.44%

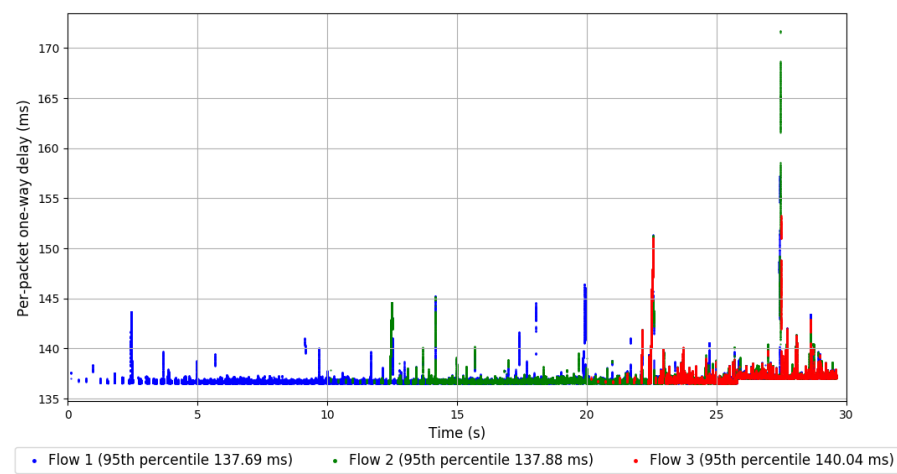
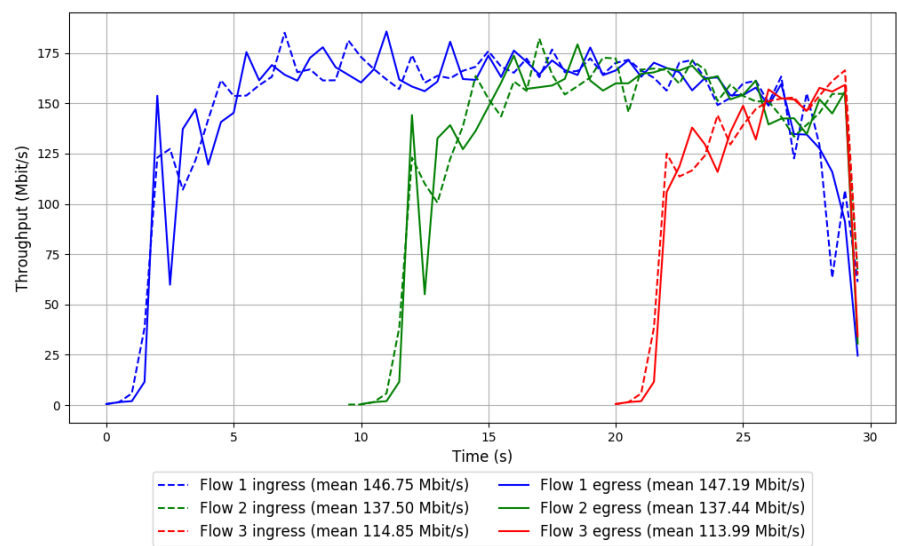
-- Flow 3:

Average throughput: 113.99 Mbit/s

95th percentile per-packet one-way delay: 140.037 ms

Loss rate: 3.55%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-10 05:02:07

End at: 2018-01-10 05:02:37

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.69 Mbit/s

95th percentile per-packet one-way delay: 137.607 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 145.84 Mbit/s

95th percentile per-packet one-way delay: 137.442 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 142.71 Mbit/s

95th percentile per-packet one-way delay: 137.672 ms

Loss rate: 1.22%

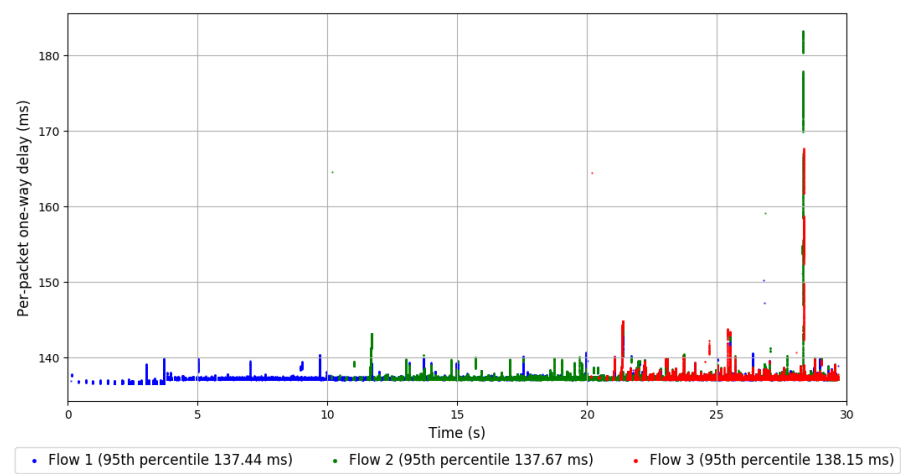
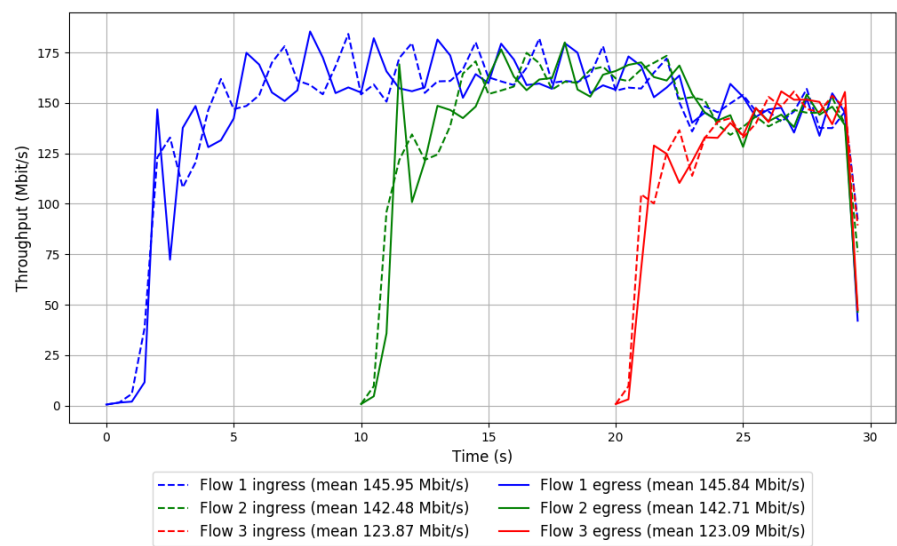
-- Flow 3:

Average throughput: 123.09 Mbit/s

95th percentile per-packet one-way delay: 138.149 ms

Loss rate: 3.41%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-10 05:18:31

End at: 2018-01-10 05:19:01

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.77 Mbit/s

95th percentile per-packet one-way delay: 136.929 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 145.91 Mbit/s

95th percentile per-packet one-way delay: 136.763 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 133.34 Mbit/s

95th percentile per-packet one-way delay: 137.256 ms

Loss rate: 1.54%

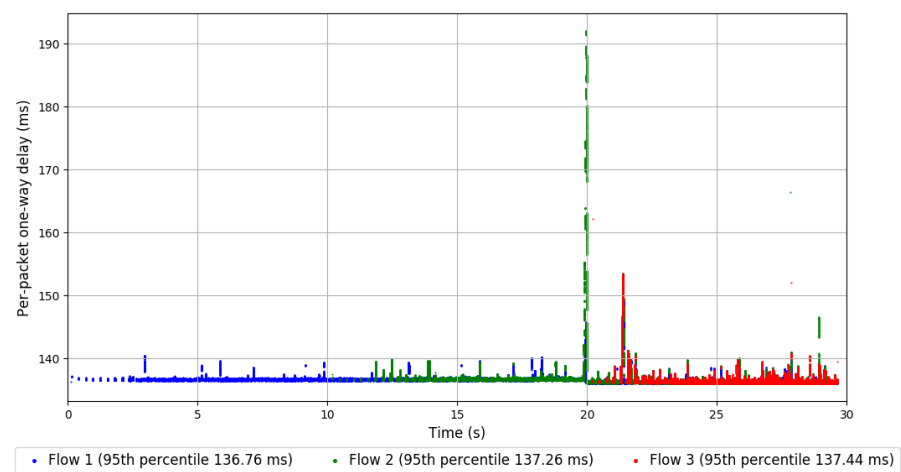
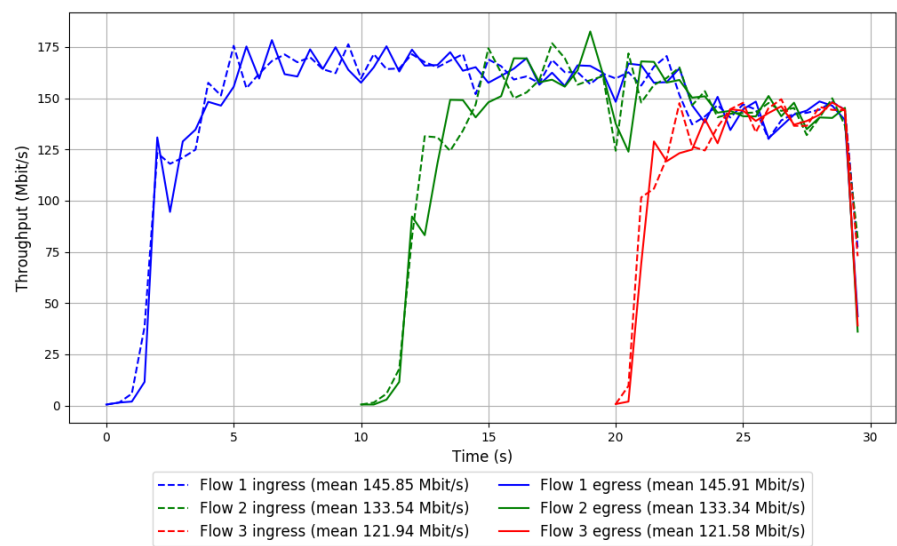
-- Flow 3:

Average throughput: 121.58 Mbit/s

95th percentile per-packet one-way delay: 137.436 ms

Loss rate: 3.04%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-10 05:34:35

End at: 2018-01-10 05:35:05

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.03 Mbit/s

95th percentile per-packet one-way delay: 137.050 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 145.62 Mbit/s

95th percentile per-packet one-way delay: 136.849 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 143.97 Mbit/s

95th percentile per-packet one-way delay: 137.379 ms

Loss rate: 1.42%

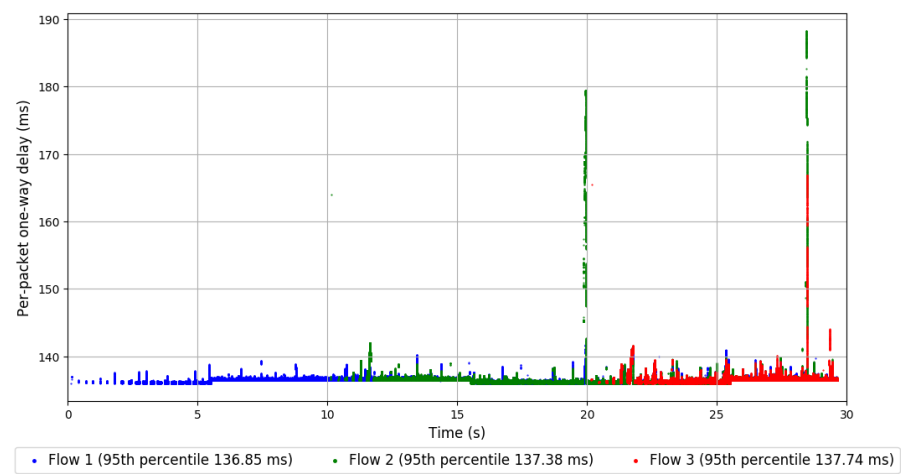
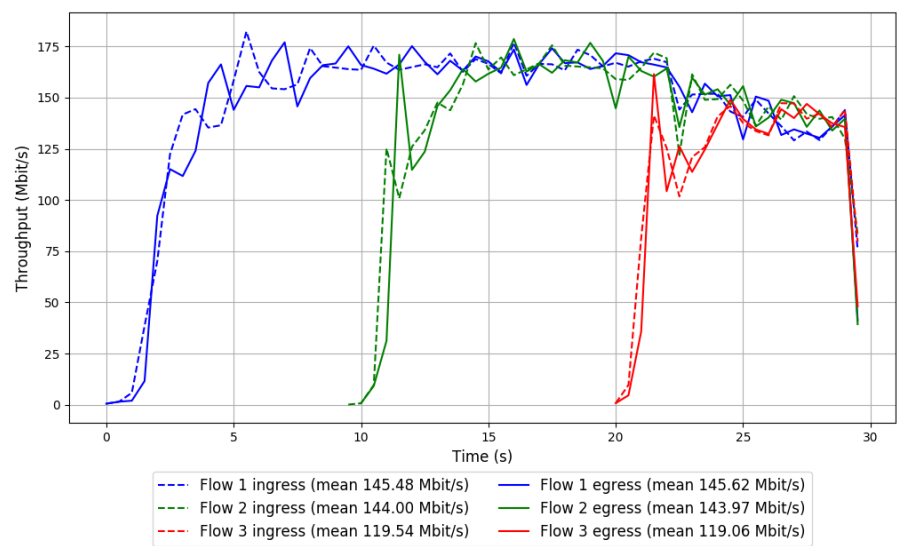
-- Flow 3:

Average throughput: 119.06 Mbit/s

95th percentile per-packet one-way delay: 137.743 ms

Loss rate: 3.19%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-10 05:50:43

End at: 2018-01-10 05:51:13

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.88 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 150.04 Mbit/s

95th percentile per-packet one-way delay: 136.400 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 141.03 Mbit/s

95th percentile per-packet one-way delay: 136.802 ms

Loss rate: 1.40%

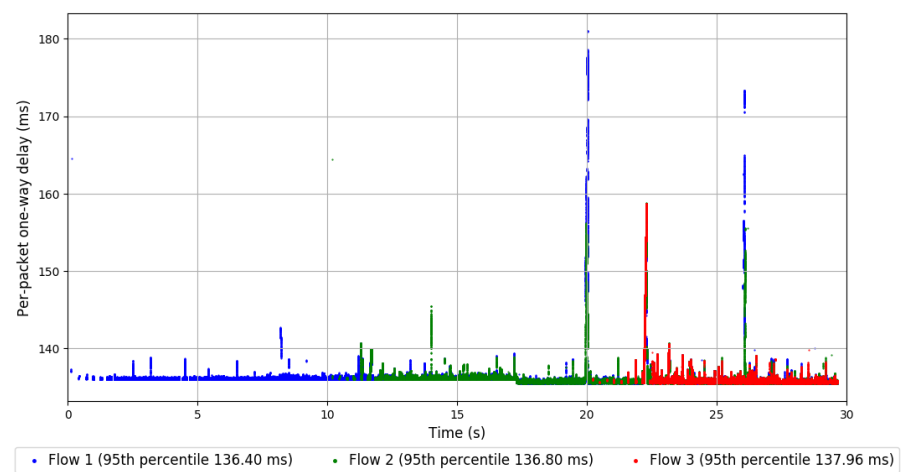
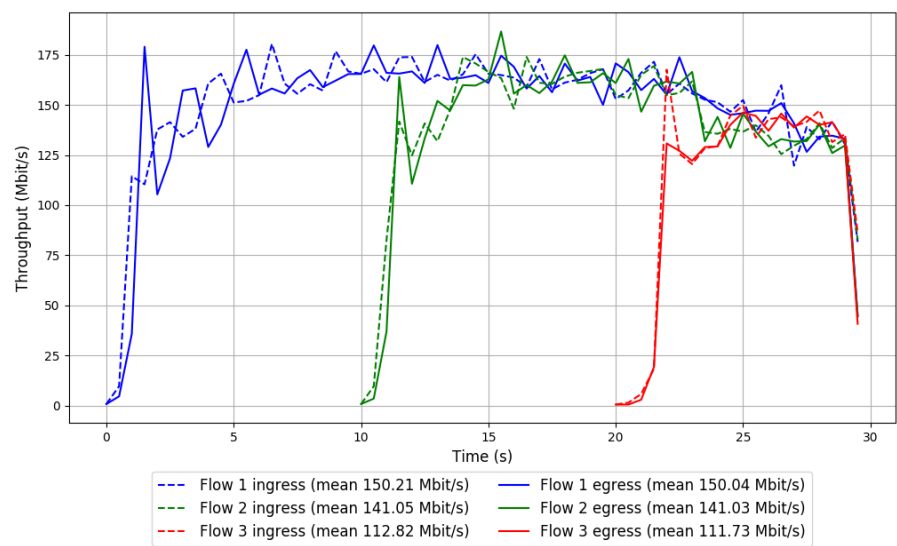
-- Flow 3:

Average throughput: 111.73 Mbit/s

95th percentile per-packet one-way delay: 137.962 ms

Loss rate: 3.74%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-10 06:06:36

End at: 2018-01-10 06:07:06

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.83 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 148.82 Mbit/s

95th percentile per-packet one-way delay: 136.206 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 142.25 Mbit/s

95th percentile per-packet one-way delay: 136.340 ms

Loss rate: 1.25%

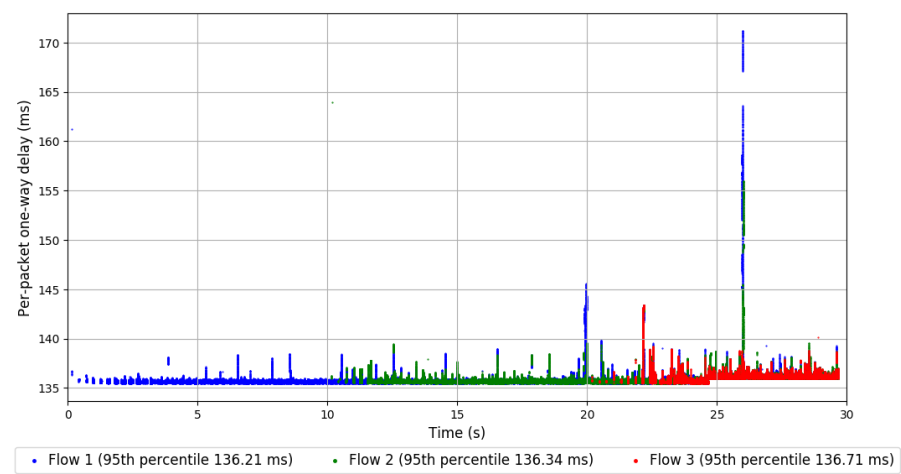
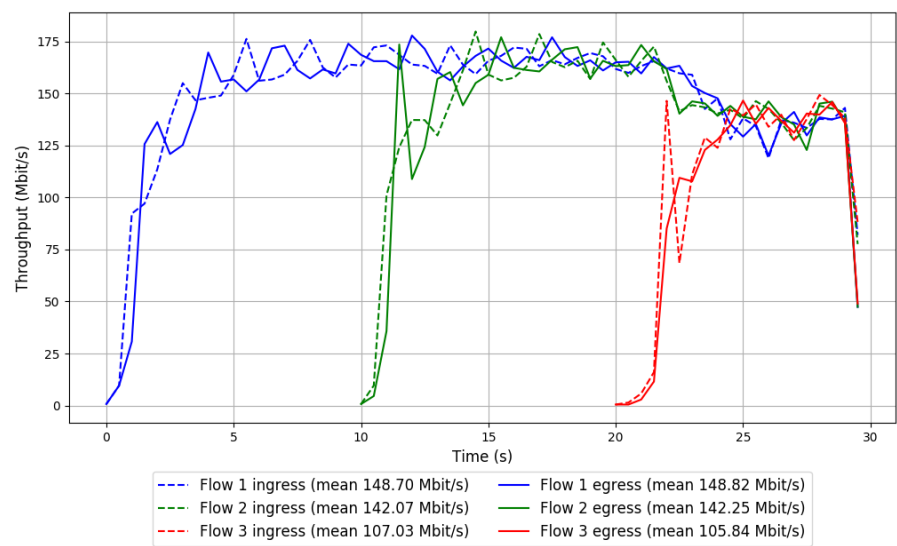
-- Flow 3:

Average throughput: 105.84 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 3.89%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-10 06:22:26

End at: 2018-01-10 06:22:56

Below is generated by plot.py at 2018-01-10 10:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.93 Mbit/s

95th percentile per-packet one-way delay: 136.713 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 153.26 Mbit/s

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

Loss rate: 0.86%

-- Flow 2:

Average throughput: 136.17 Mbit/s

95th percentile per-packet one-way delay: 136.989 ms

Loss rate: 1.51%

-- Flow 3:

Average throughput: 107.91 Mbit/s

95th percentile per-packet one-way delay: 138.278 ms

Loss rate: 3.95%

Run 10: Report of Indigo — Data Link

