

Pantheon Report

Generated at 2018-01-03 05:14:18 (UTC).

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

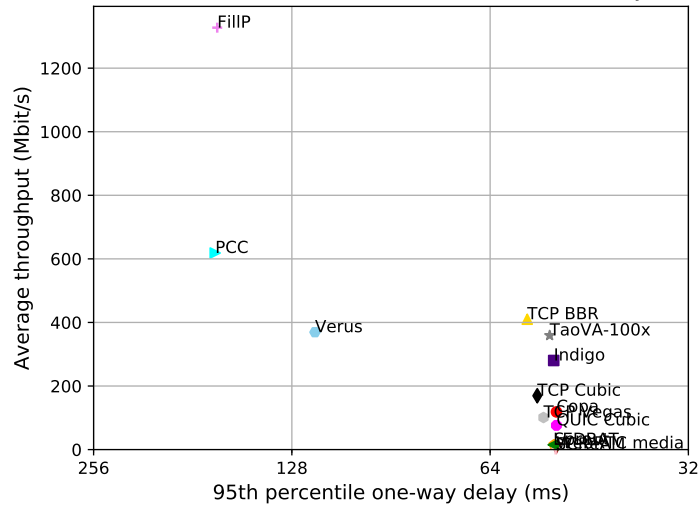
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

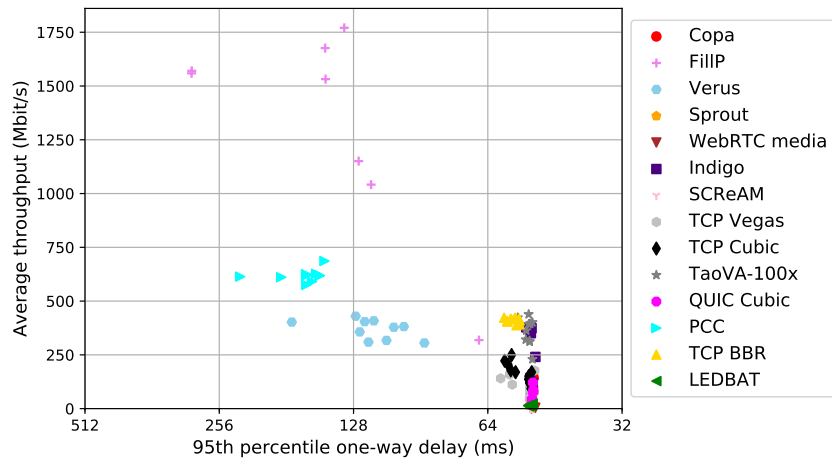
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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 Iowa 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 Iowa Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



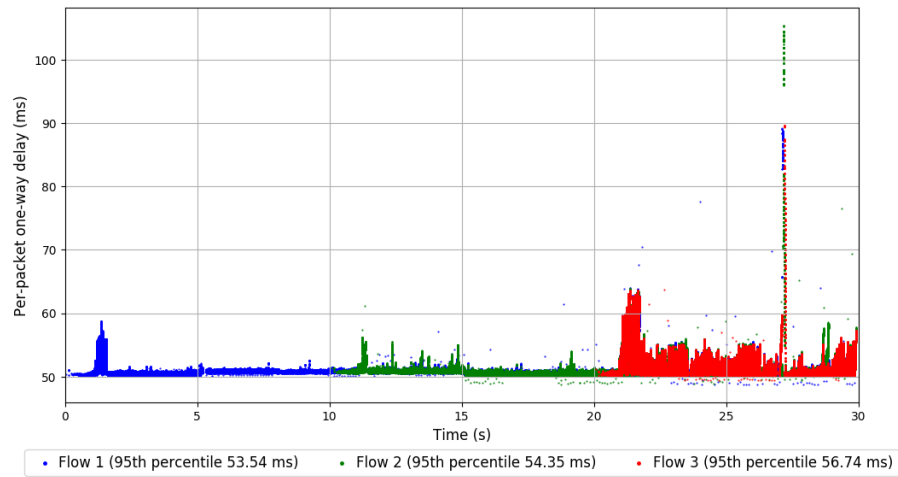
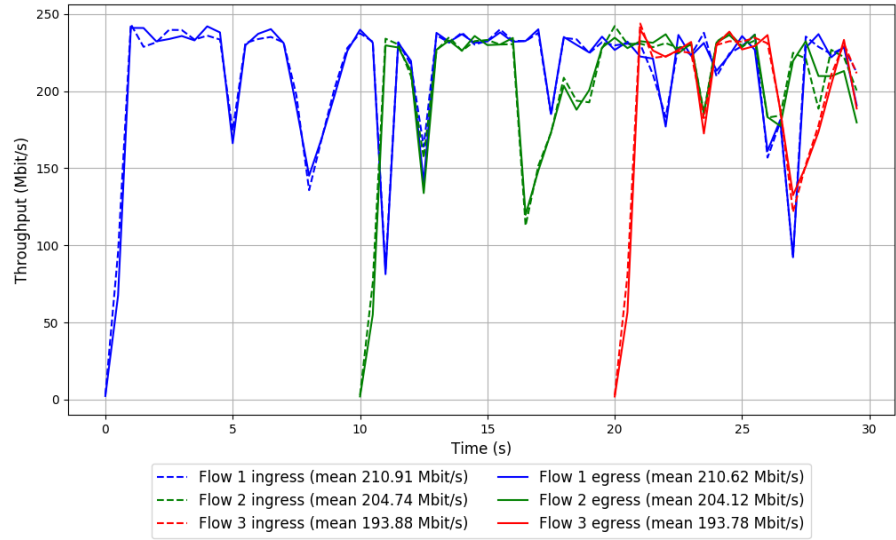
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	211.99	204.72	189.64	55.18	56.21	58.28	0.50	0.69	1.38
TCP Cubic	10	91.34	90.49	54.78	53.85	54.37	52.50	0.80	0.79	1.95
LEDBAT	9	8.88	6.51	4.67	51.33	51.32	51.36	1.27	1.66	3.64
PCC	10	503.14	160.13	28.35	169.61	156.07	135.04	2.40	2.82	2.81
QUIC Cubic	9	35.67	46.73	29.16	50.73	50.61	50.43	0.32	0.66	1.17
SCReAM	10	0.22	0.22	0.22	50.79	50.79	50.34	0.29	0.51	0.98
WebRTC media	9	1.97	1.25	0.50	50.76	50.55	50.82	0.46	0.55	1.90
Sprout	10	7.81	7.72	7.45	51.24	51.10	51.00	0.98	1.29	2.16
TaoVA-100x	10	179.94	199.07	184.66	51.88	51.79	52.27	0.74	0.43	1.77
TCP Vegas	10	36.85	76.15	41.31	52.25	53.43	51.05	0.81	0.61	1.15
Verus	10	218.56	159.35	140.38	106.74	115.33	121.09	0.89	0.69	1.65
Copa	10	60.19	62.54	65.70	54.83	54.38	50.69	0.28	5.10	1.54
FillP	8	685.08	610.99	627.82	140.34	168.96	149.41	4.24	6.60	8.86
Indigo	10	146.83	136.10	133.65	51.07	51.40	51.39	0.42	0.57	1.19

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-02 23:10:42
End at: 2018-01-02 23:11:12

# Below is generated by plot.py at 2018-01-03 03:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.08 Mbit/s
95th percentile per-packet one-way delay: 54.287 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 210.62 Mbit/s
95th percentile per-packet one-way delay: 53.543 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 204.12 Mbit/s
95th percentile per-packet one-way delay: 54.352 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 193.78 Mbit/s
95th percentile per-packet one-way delay: 56.745 ms
Loss rate: 1.23%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 23:25:00

End at: 2018-01-02 23:25:30

Below is generated by plot.py at 2018-01-03 03:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 416.55 Mbit/s

95th percentile per-packet one-way delay: 56.776 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 211.91 Mbit/s

95th percentile per-packet one-way delay: 55.609 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 210.16 Mbit/s

95th percentile per-packet one-way delay: 57.357 ms

Loss rate: 0.64%

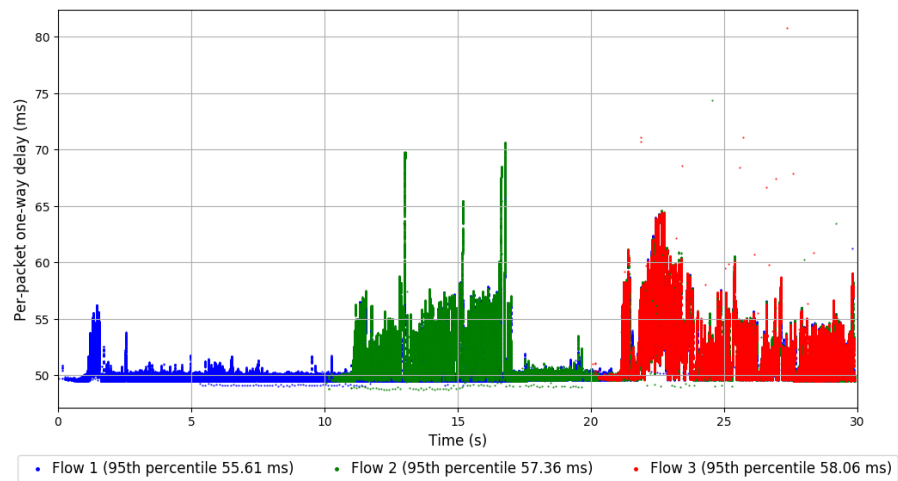
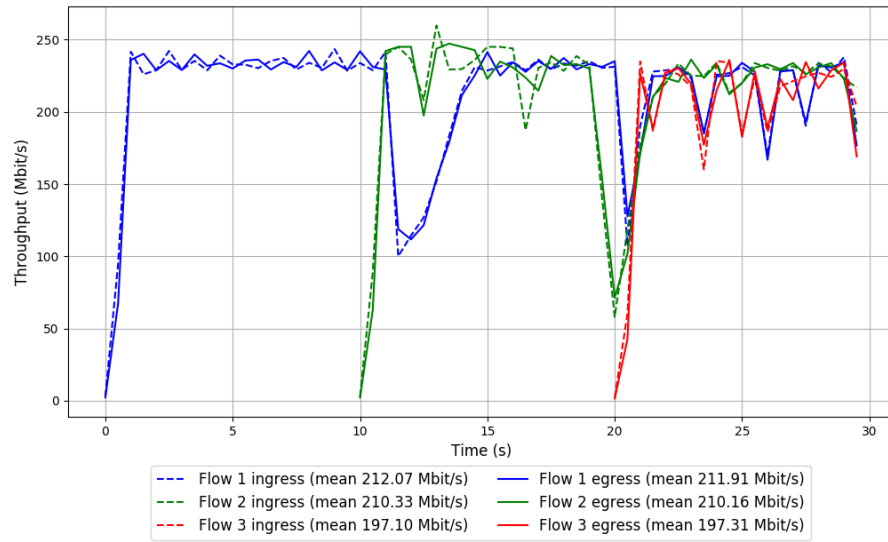
-- Flow 3:

Average throughput: 197.31 Mbit/s

95th percentile per-packet one-way delay: 58.061 ms

Loss rate: 1.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 23:39:20

End at: 2018-01-02 23:39:50

Below is generated by plot.py at 2018-01-03 03:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.54 Mbit/s

95th percentile per-packet one-way delay: 56.866 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 216.84 Mbit/s

95th percentile per-packet one-way delay: 55.748 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 206.38 Mbit/s

95th percentile per-packet one-way delay: 56.568 ms

Loss rate: 0.59%

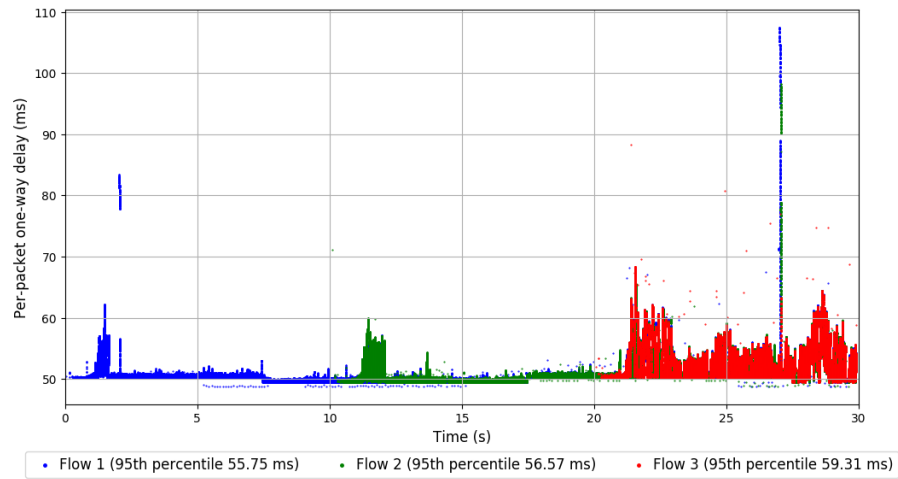
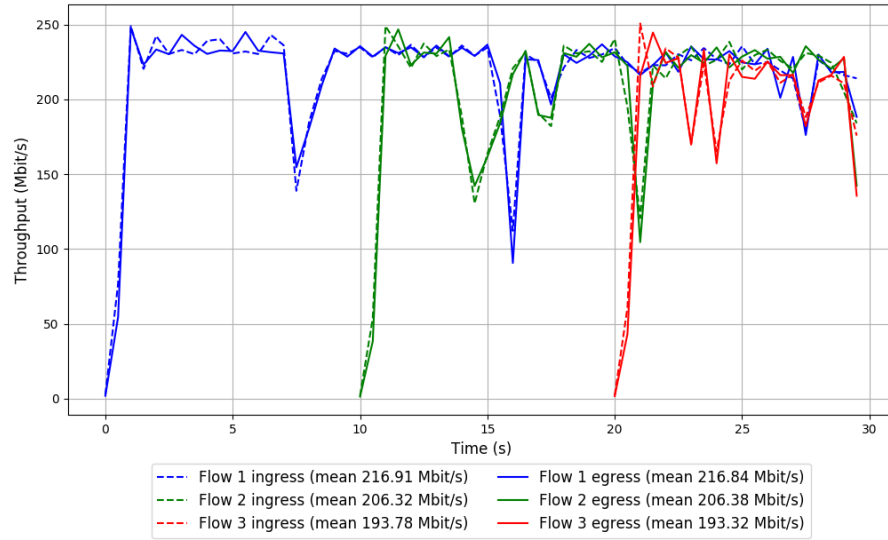
-- Flow 3:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 59.312 ms

Loss rate: 1.23%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 23:52:58

End at: 2018-01-02 23:53:28

Below is generated by plot.py at 2018-01-03 03:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.91 Mbit/s

95th percentile per-packet one-way delay: 57.910 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 206.74 Mbit/s

95th percentile per-packet one-way delay: 56.935 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 57.697 ms

Loss rate: 0.59%

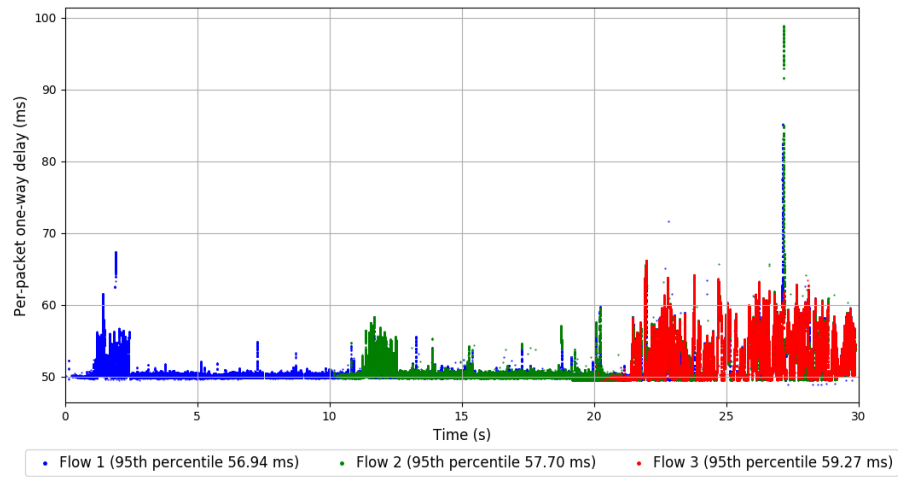
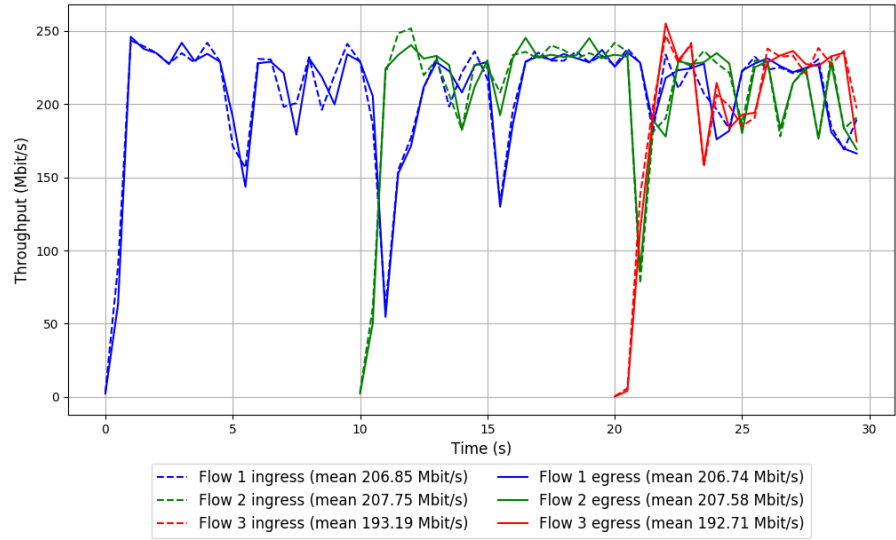
-- Flow 3:

Average throughput: 192.71 Mbit/s

95th percentile per-packet one-way delay: 59.274 ms

Loss rate: 1.28%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-03 00:06:00

End at: 2018-01-03 00:06:30

Below is generated by plot.py at 2018-01-03 03:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.57 Mbit/s

95th percentile per-packet one-way delay: 57.829 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 215.90 Mbit/s

95th percentile per-packet one-way delay: 56.474 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 195.36 Mbit/s

95th percentile per-packet one-way delay: 57.807 ms

Loss rate: 0.70%

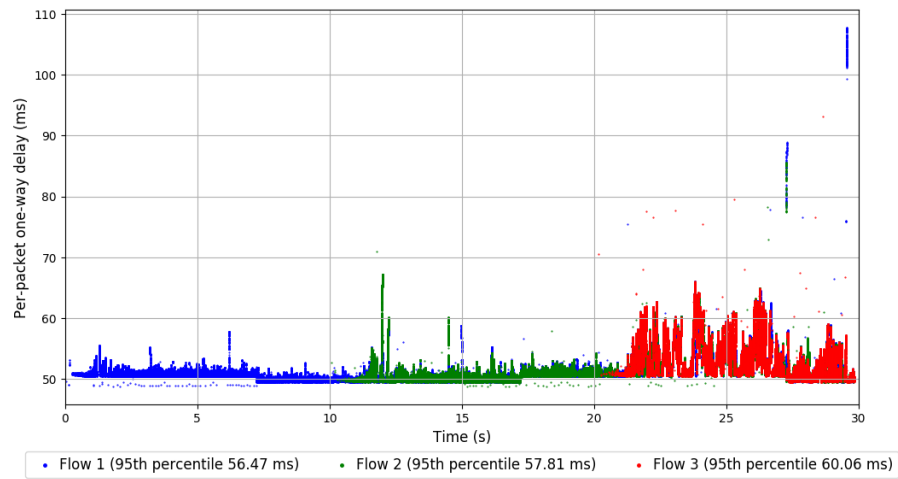
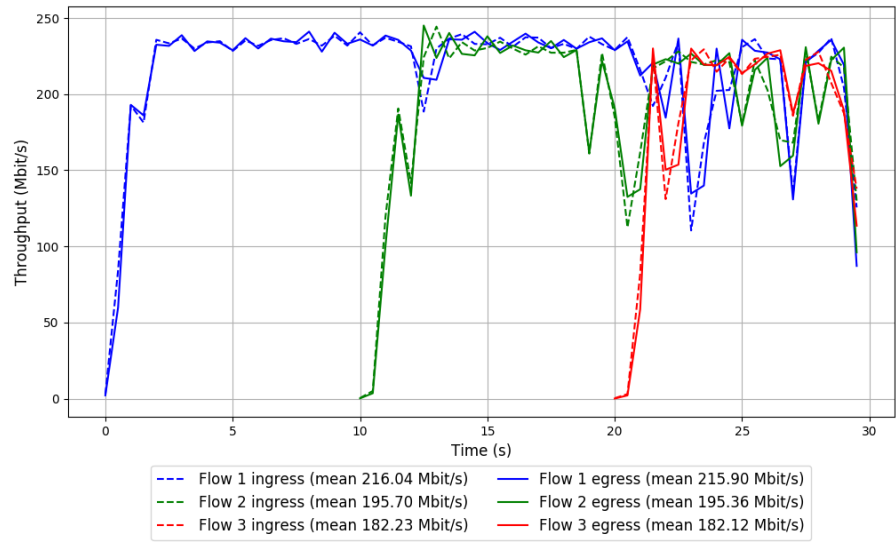
-- Flow 3:

Average throughput: 182.12 Mbit/s

95th percentile per-packet one-way delay: 60.060 ms

Loss rate: 1.32%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-03 00:18:33

End at: 2018-01-03 00:19:03

Below is generated by plot.py at 2018-01-03 03:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.86 Mbit/s

95th percentile per-packet one-way delay: 55.202 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 207.13 Mbit/s

95th percentile per-packet one-way delay: 54.338 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 197.48 Mbit/s

95th percentile per-packet one-way delay: 55.116 ms

Loss rate: 0.60%

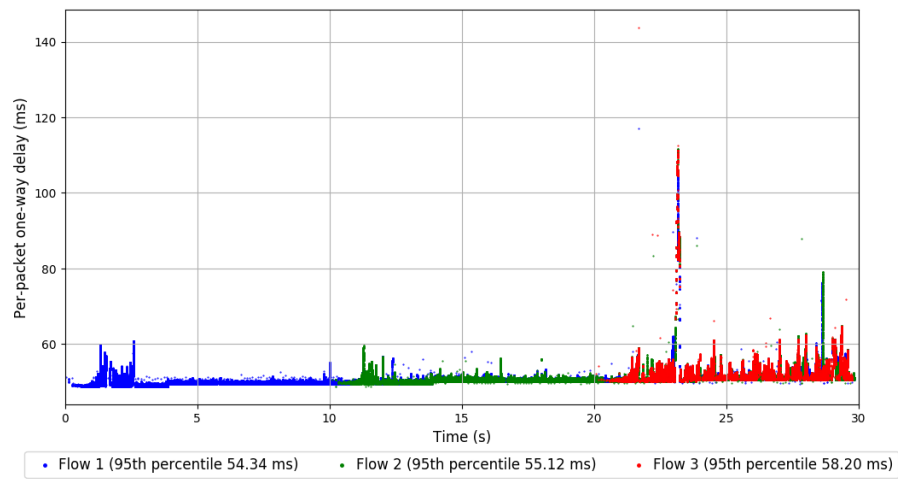
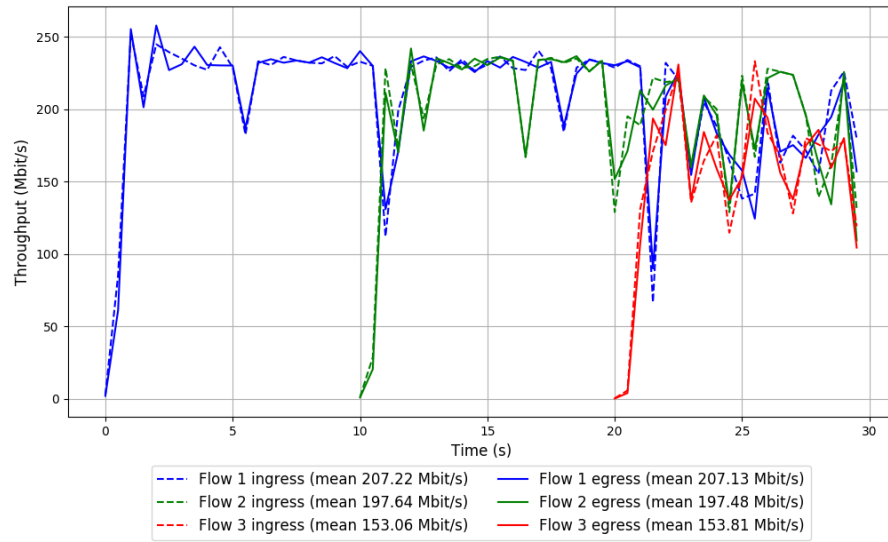
-- Flow 3:

Average throughput: 153.81 Mbit/s

95th percentile per-packet one-way delay: 58.195 ms

Loss rate: 1.34%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-03 00:31:12

End at: 2018-01-03 00:31:42

Below is generated by plot.py at 2018-01-03 03:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.66 Mbit/s

95th percentile per-packet one-way delay: 54.313 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 203.52 Mbit/s

95th percentile per-packet one-way delay: 53.610 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 197.34 Mbit/s

95th percentile per-packet one-way delay: 54.510 ms

Loss rate: 1.21%

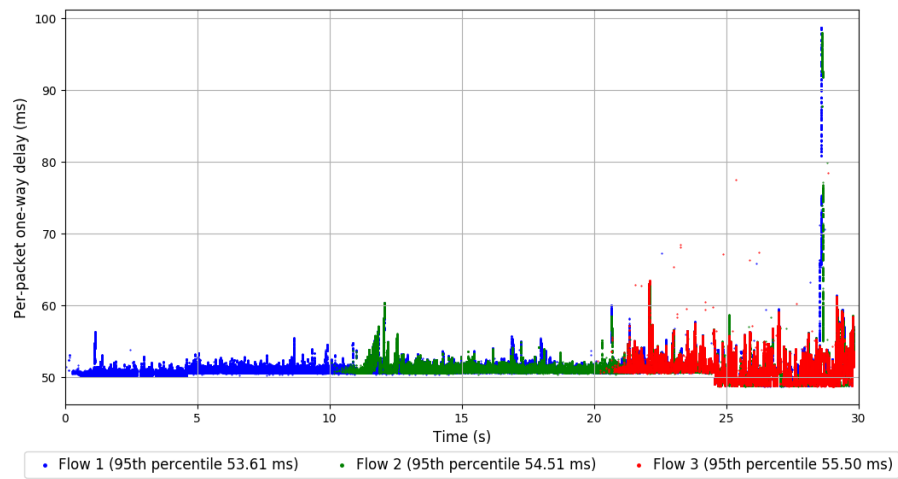
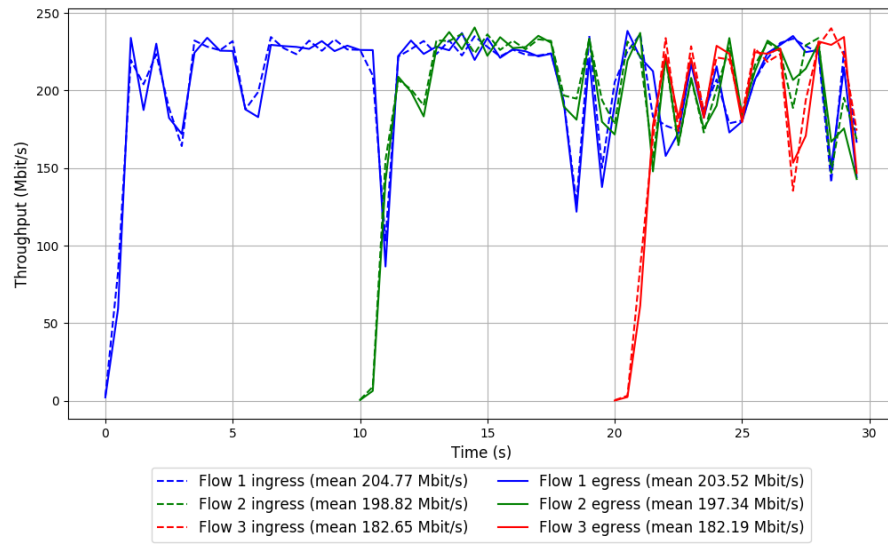
-- Flow 3:

Average throughput: 182.19 Mbit/s

95th percentile per-packet one-way delay: 55.500 ms

Loss rate: 1.32%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-03 00:44:42

End at: 2018-01-03 00:45:12

Below is generated by plot.py at 2018-01-03 03:54:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.63 Mbit/s

95th percentile per-packet one-way delay: 58.818 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 214.56 Mbit/s

95th percentile per-packet one-way delay: 56.672 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 214.10 Mbit/s

95th percentile per-packet one-way delay: 58.366 ms

Loss rate: 0.30%

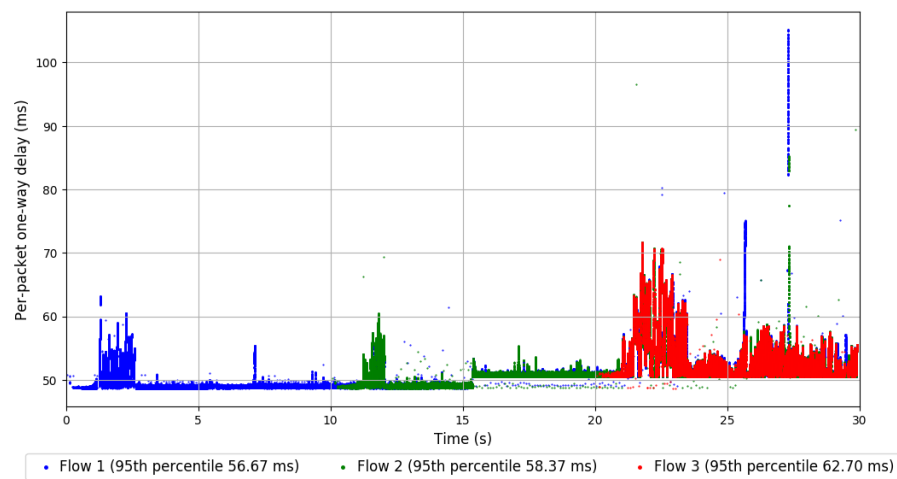
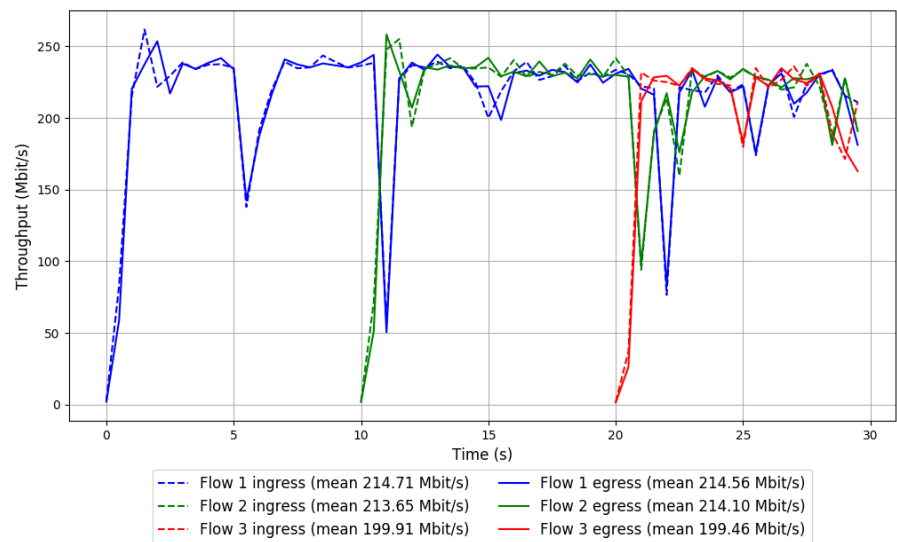
-- Flow 3:

Average throughput: 199.46 Mbit/s

95th percentile per-packet one-way delay: 62.702 ms

Loss rate: 1.24%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-03 00:59:08

End at: 2018-01-03 00:59:38

Below is generated by plot.py at 2018-01-03 04:00:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.81 Mbit/s

95th percentile per-packet one-way delay: 55.597 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 215.88 Mbit/s

95th percentile per-packet one-way delay: 54.790 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 211.67 Mbit/s

95th percentile per-packet one-way delay: 55.737 ms

Loss rate: 0.54%

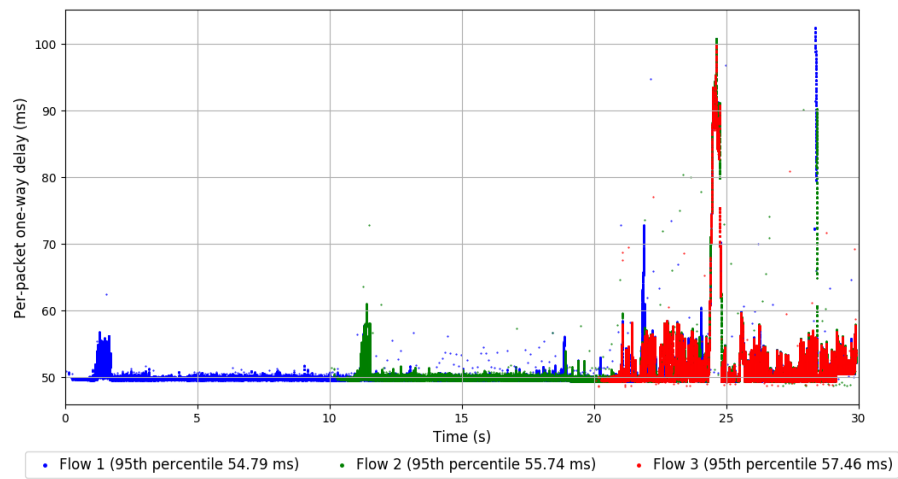
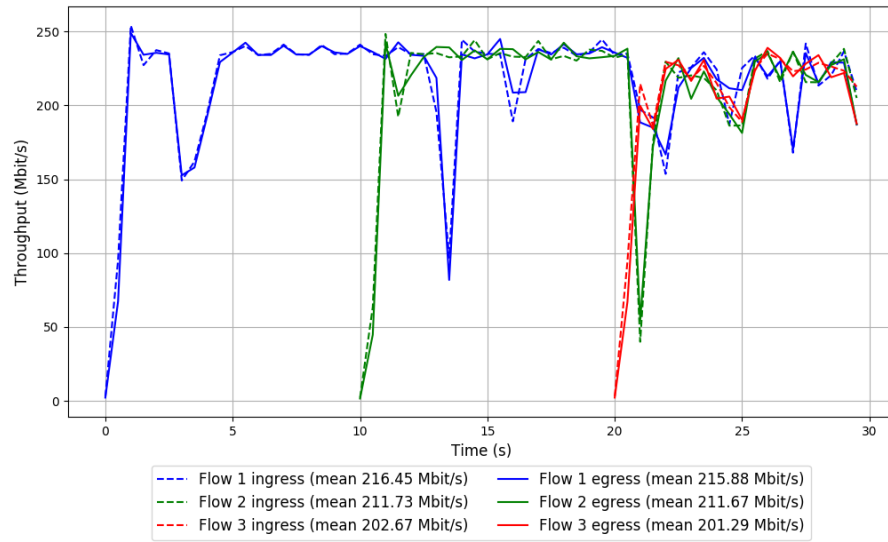
-- Flow 3:

Average throughput: 201.29 Mbit/s

95th percentile per-packet one-way delay: 57.460 ms

Loss rate: 1.75%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-03 01:13:30

End at: 2018-01-03 01:14:00

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.75 Mbit/s

95th percentile per-packet one-way delay: 54.526 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 216.79 Mbit/s

95th percentile per-packet one-way delay: 54.124 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 203.03 Mbit/s

95th percentile per-packet one-way delay: 54.617 ms

Loss rate: 0.81%

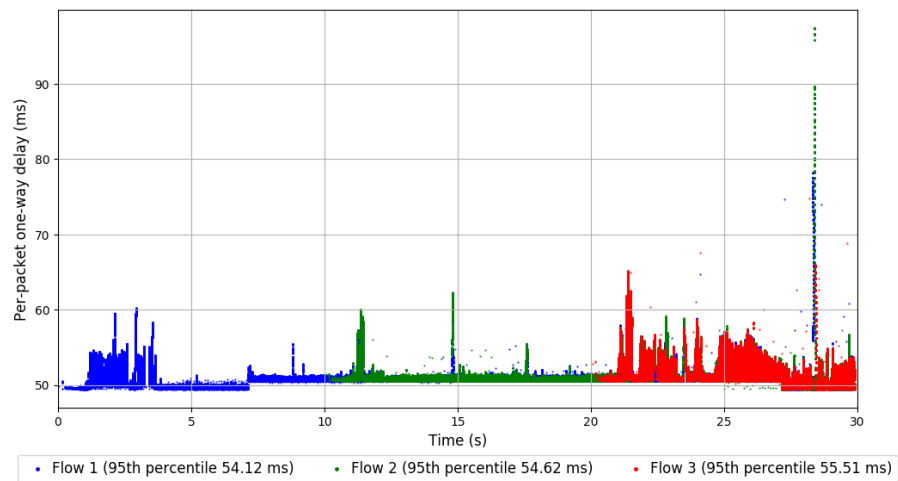
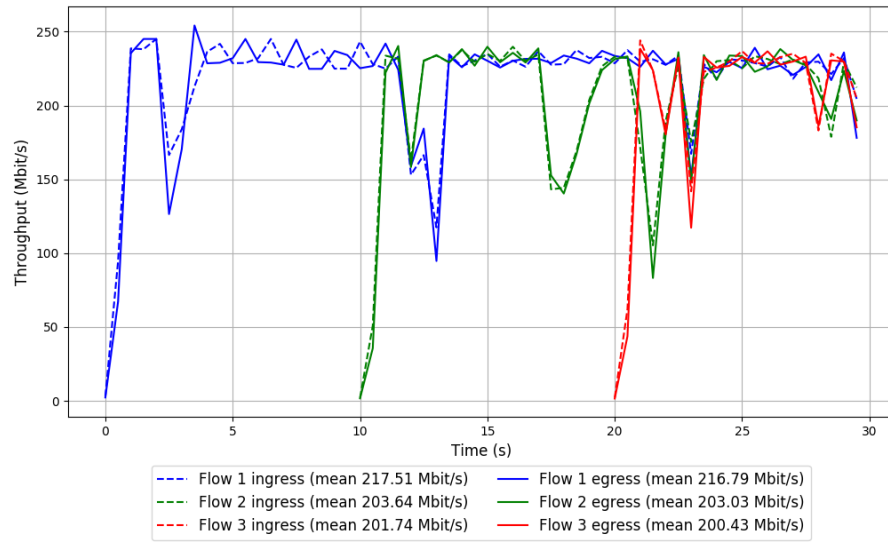
-- Flow 3:

Average throughput: 200.43 Mbit/s

95th percentile per-packet one-way delay: 55.505 ms

Loss rate: 1.69%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 23:13:32

End at: 2018-01-02 23:14:02

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.45 Mbit/s

95th percentile per-packet one-way delay: 56.849 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 107.14 Mbit/s

95th percentile per-packet one-way delay: 57.170 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 106.25 Mbit/s

95th percentile per-packet one-way delay: 56.463 ms

Loss rate: 0.84%

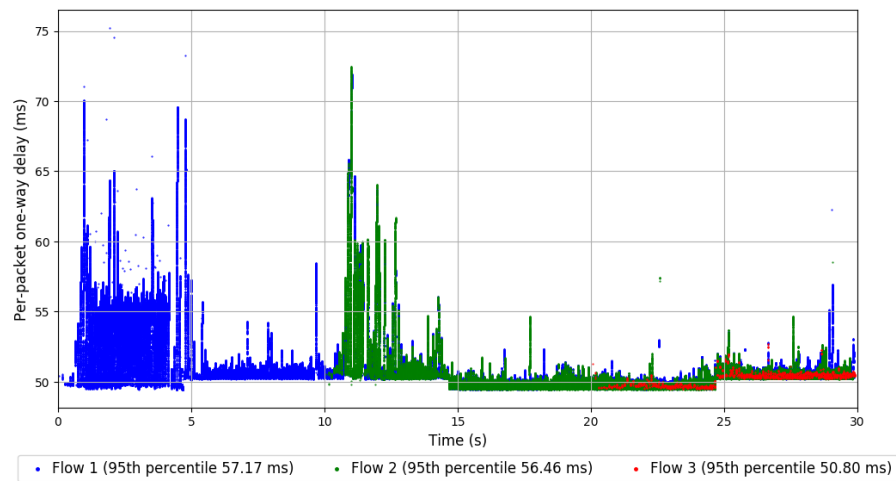
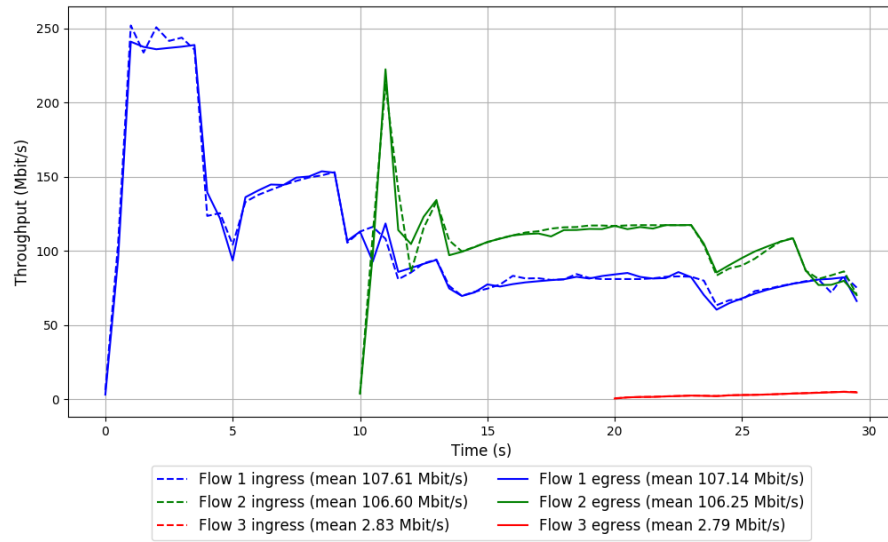
-- Flow 3:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 2.64%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 23:27:42

End at: 2018-01-02 23:28:12

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.22 Mbit/s

95th percentile per-packet one-way delay: 56.603 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 141.27 Mbit/s

95th percentile per-packet one-way delay: 56.851 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 110.58 Mbit/s

95th percentile per-packet one-way delay: 54.671 ms

Loss rate: 0.45%

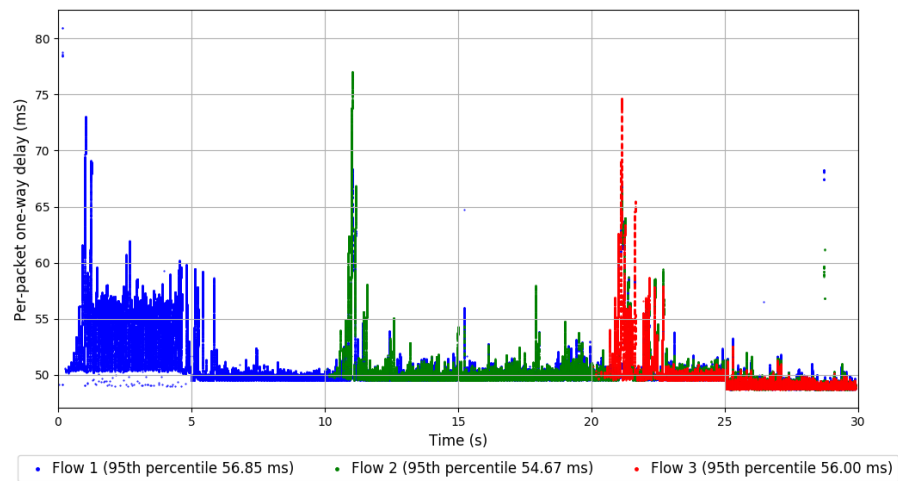
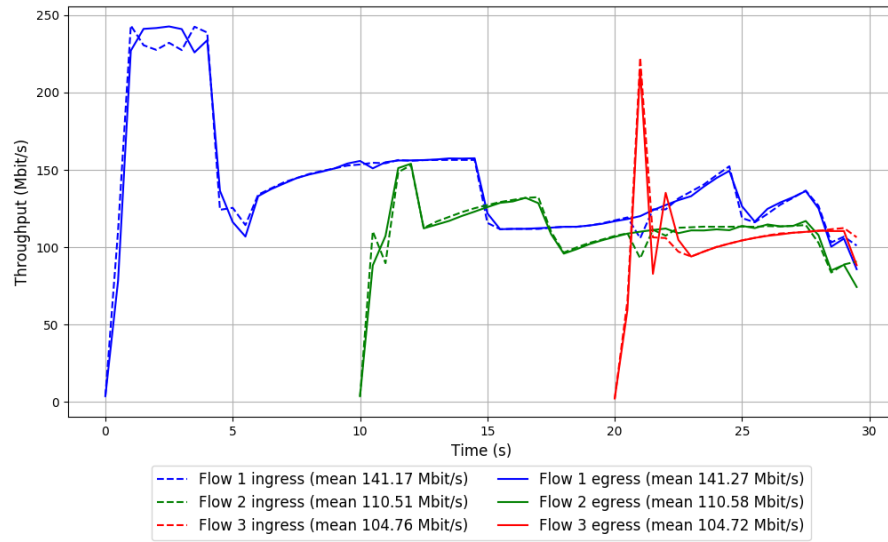
-- Flow 3:

Average throughput: 104.72 Mbit/s

95th percentile per-packet one-way delay: 55.996 ms

Loss rate: 1.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 23:42:22

End at: 2018-01-02 23:42:52

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 51.247 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 51.074 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 13.17 Mbit/s

95th percentile per-packet one-way delay: 50.769 ms

Loss rate: 1.46%

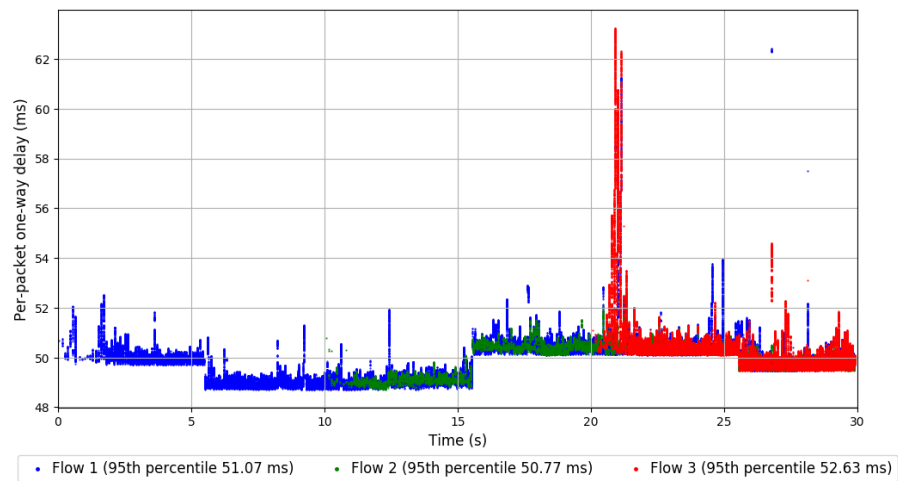
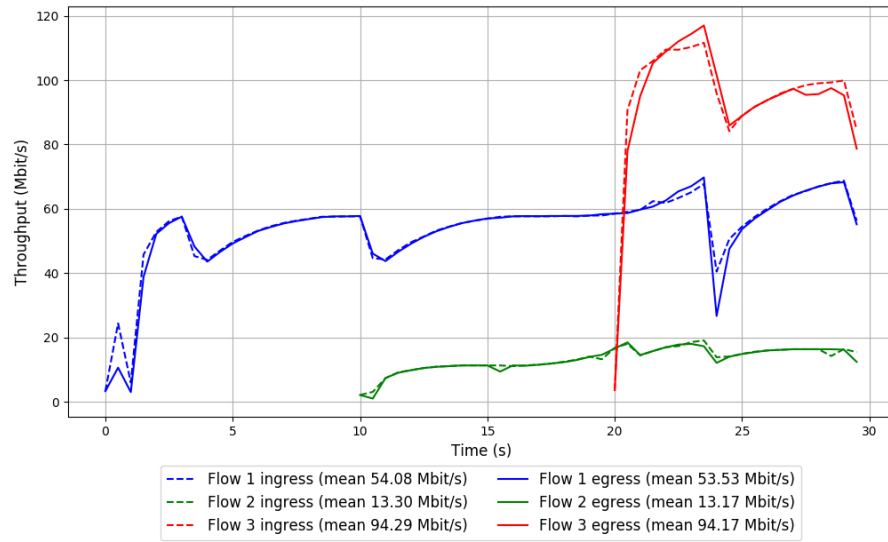
-- Flow 3:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 52.635 ms

Loss rate: 1.14%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 23:55:54

End at: 2018-01-02 23:56:24

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.87 Mbit/s

95th percentile per-packet one-way delay: 51.810 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 103.82 Mbit/s

95th percentile per-packet one-way delay: 51.687 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 69.54 Mbit/s

95th percentile per-packet one-way delay: 52.196 ms

Loss rate: 0.53%

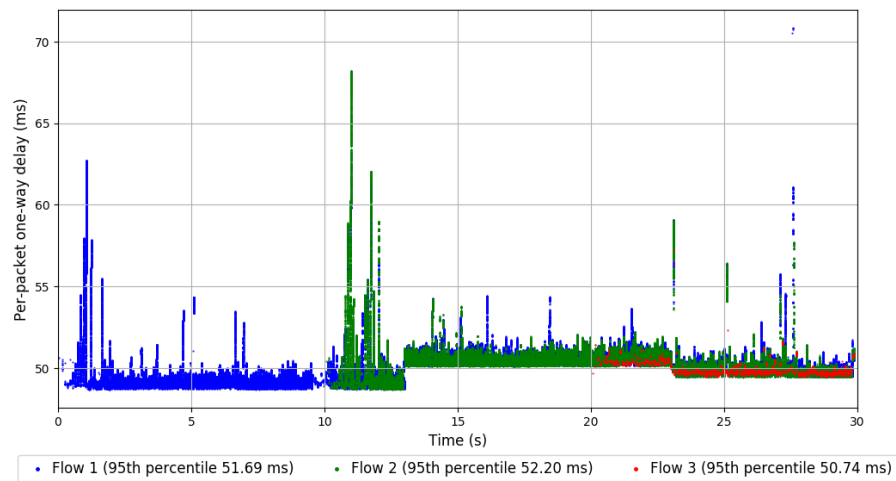
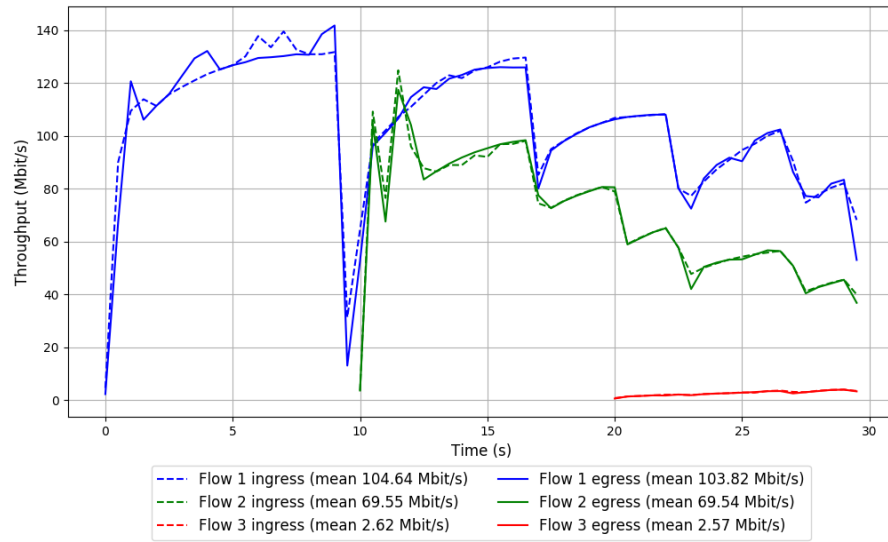
-- Flow 3:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 3.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-03 00:08:49

End at: 2018-01-03 00:09:19

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.33 Mbit/s

95th percentile per-packet one-way delay: 51.600 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 50.45 Mbit/s

95th percentile per-packet one-way delay: 51.816 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 51.614 ms

Loss rate: 1.12%

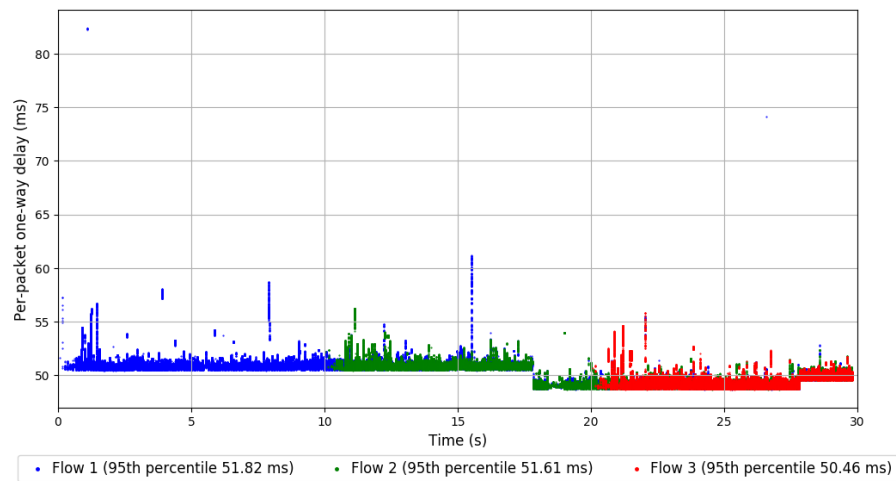
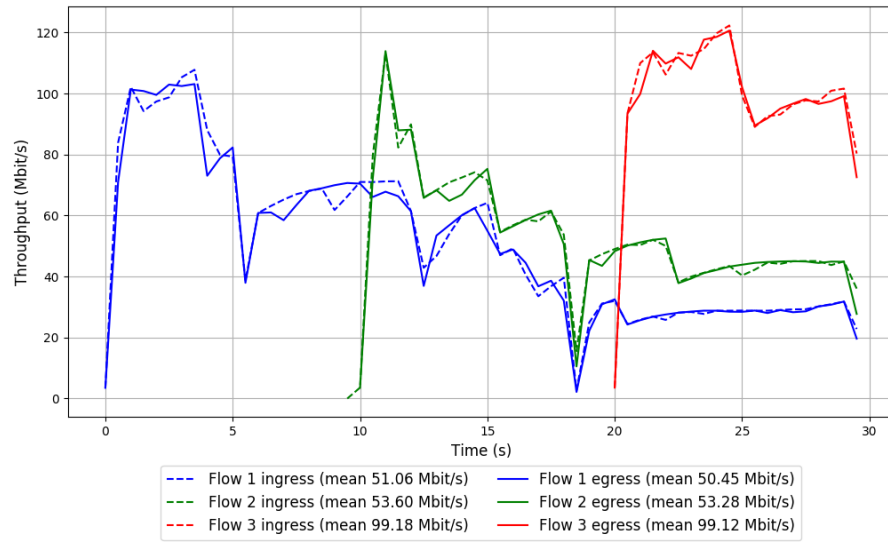
-- Flow 3:

Average throughput: 99.12 Mbit/s

95th percentile per-packet one-way delay: 50.464 ms

Loss rate: 1.07%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-03 00:21:29

End at: 2018-01-03 00:21:59

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.16 Mbit/s

95th percentile per-packet one-way delay: 51.888 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 83.22 Mbit/s

95th percentile per-packet one-way delay: 51.835 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 78.64 Mbit/s

95th percentile per-packet one-way delay: 52.026 ms

Loss rate: 0.69%

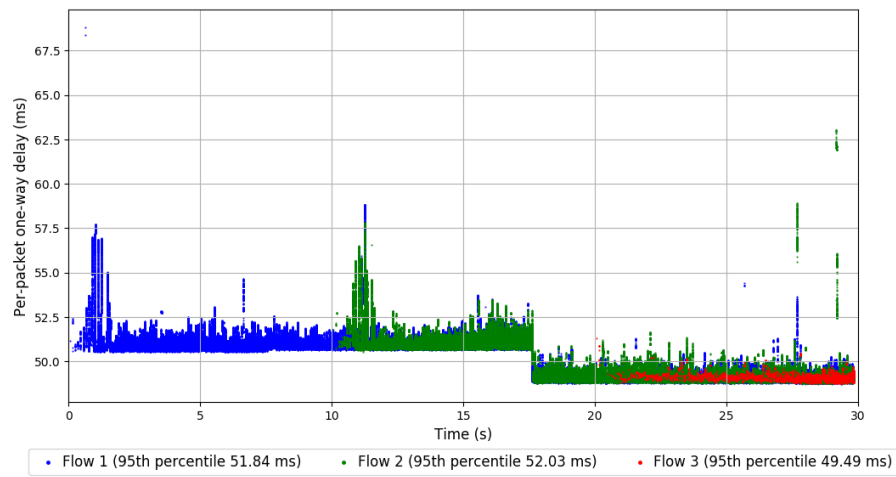
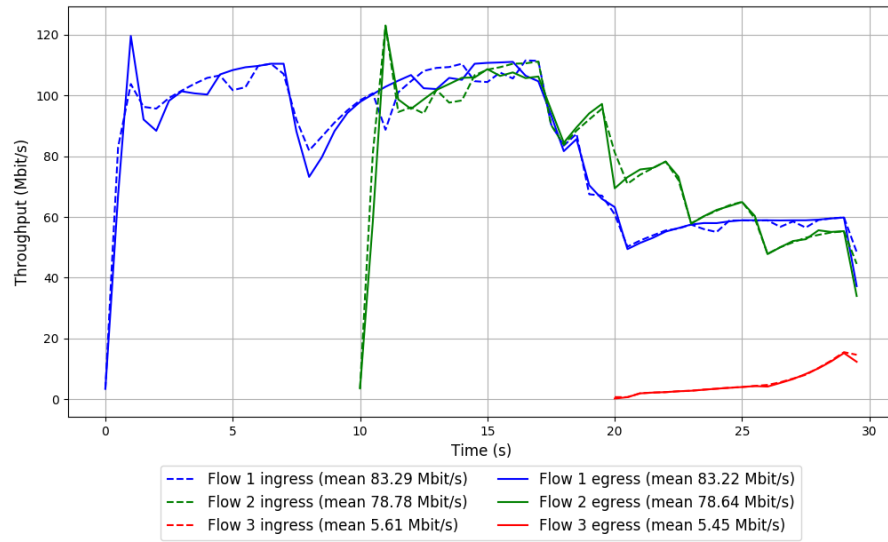
-- Flow 3:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 49.487 ms

Loss rate: 3.90%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-03 00:34:03

End at: 2018-01-03 00:34:33

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.50 Mbit/s

95th percentile per-packet one-way delay: 51.019 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 119.67 Mbit/s

95th percentile per-packet one-way delay: 50.863 ms

Loss rate: 0.50%

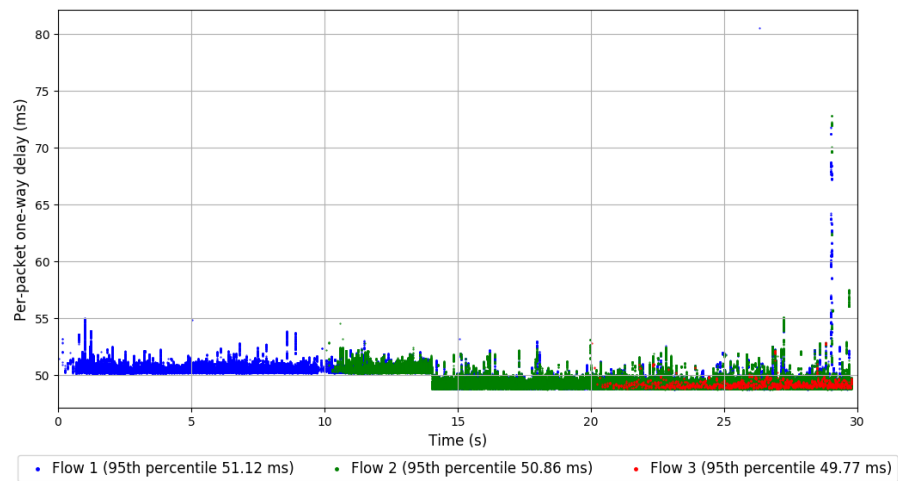
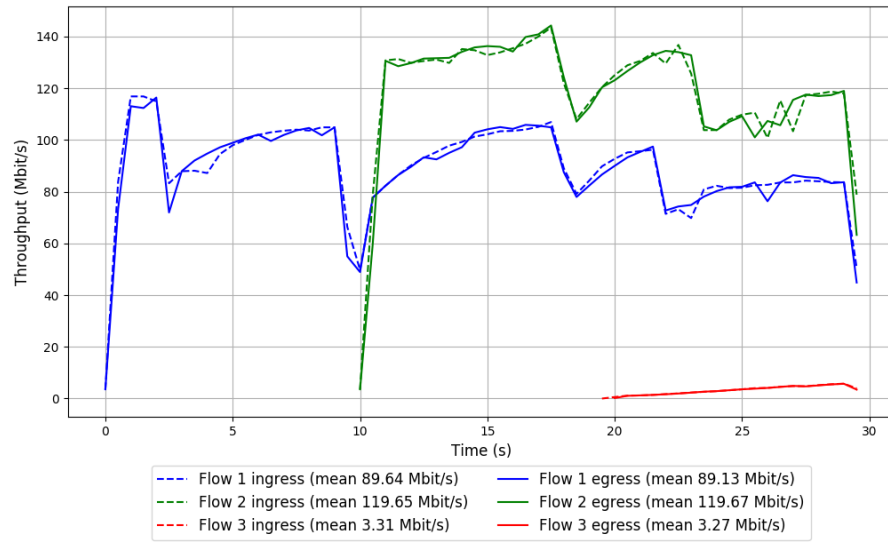
-- Flow 3:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 49.772 ms

Loss rate: 2.13%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-03 00:47:40

End at: 2018-01-03 00:48:10

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.46 Mbit/s

95th percentile per-packet one-way delay: 57.636 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 55.604 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 145.44 Mbit/s

95th percentile per-packet one-way delay: 58.667 ms

Loss rate: 0.36%

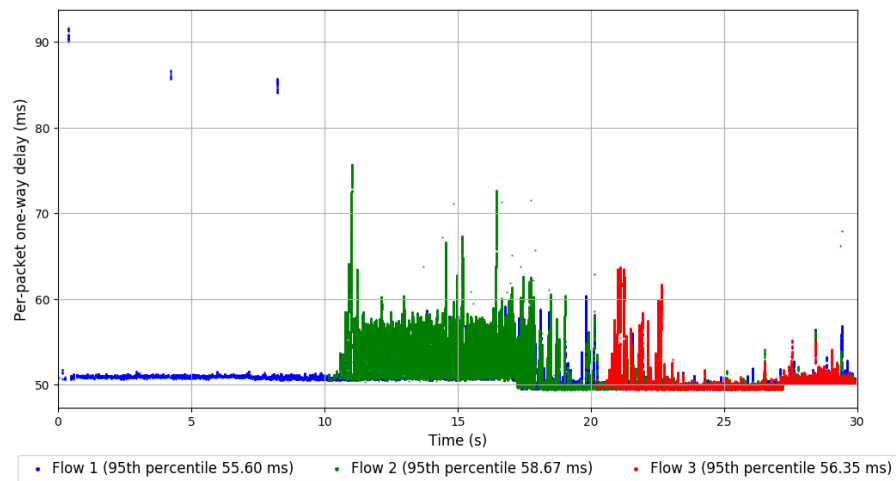
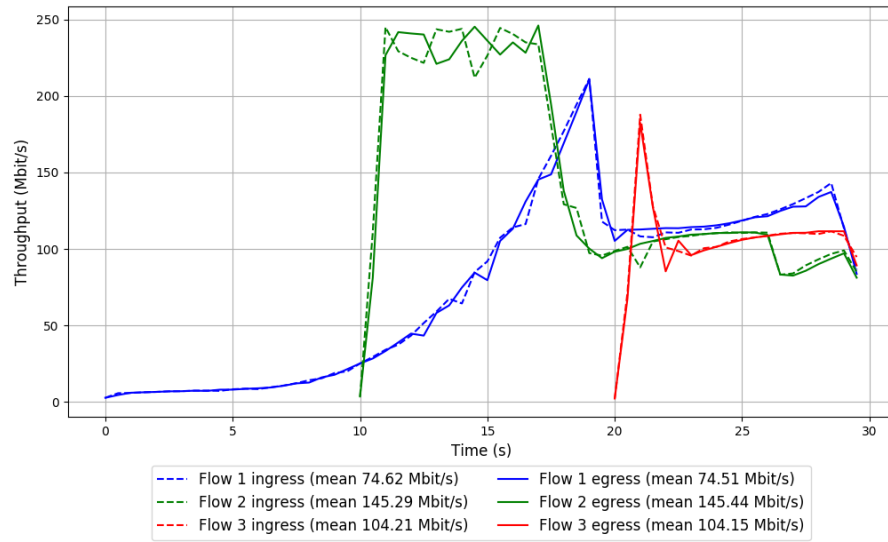
-- Flow 3:

Average throughput: 104.15 Mbit/s

95th percentile per-packet one-way delay: 56.346 ms

Loss rate: 1.08%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-03 01:02:08

End at: 2018-01-03 01:02:38

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.61 Mbit/s

95th percentile per-packet one-way delay: 55.452 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 106.93 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 56.712 ms

Loss rate: 1.38%

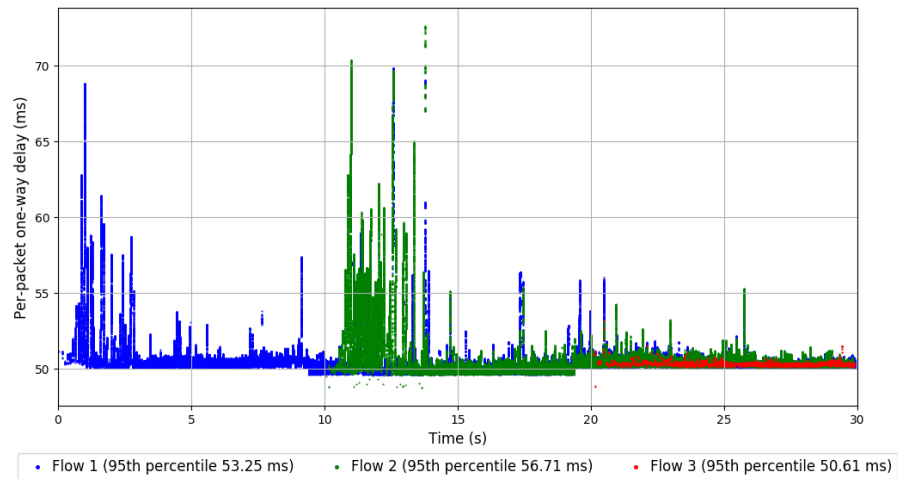
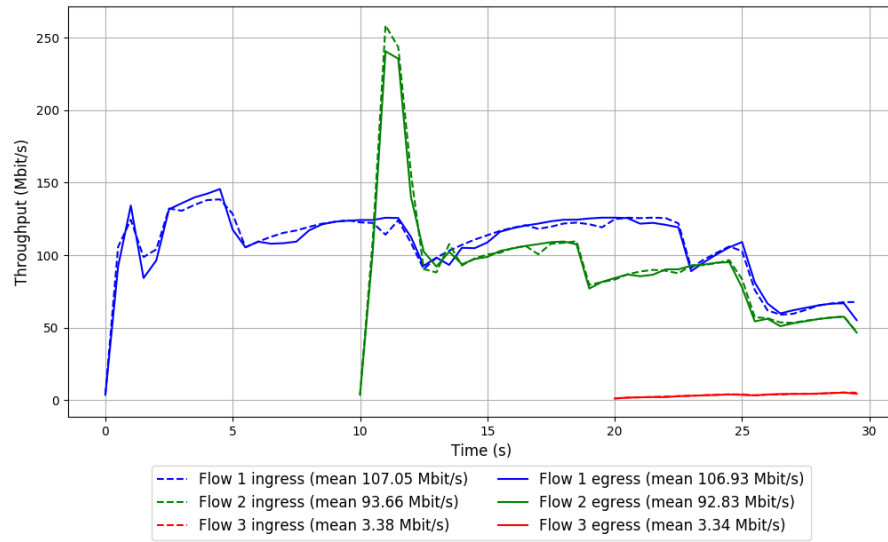
-- Flow 3:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 50.611 ms

Loss rate: 2.18%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-03 01:16:24

End at: 2018-01-03 01:16:54

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.39 Mbit/s

95th percentile per-packet one-way delay: 58.660 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 103.45 Mbit/s

95th percentile per-packet one-way delay: 58.063 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 115.52 Mbit/s

95th percentile per-packet one-way delay: 59.697 ms

Loss rate: 0.56%

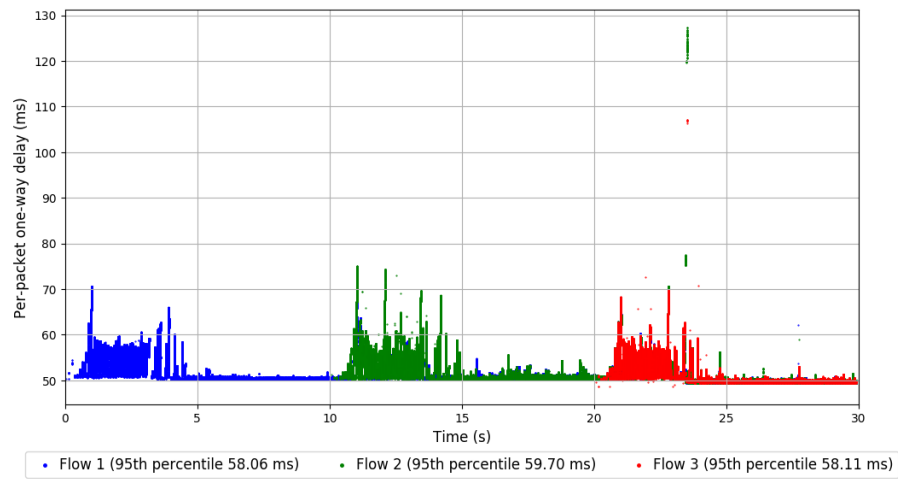
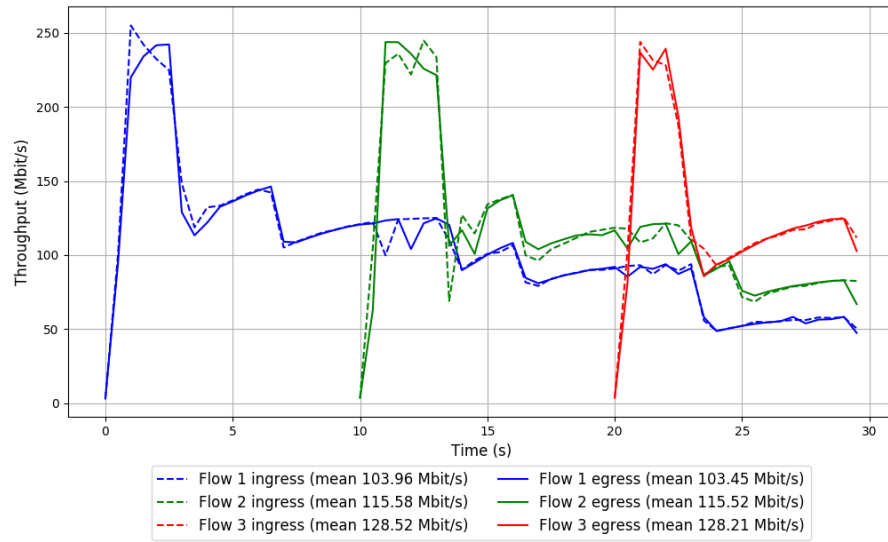
-- Flow 3:

Average throughput: 128.21 Mbit/s

95th percentile per-packet one-way delay: 58.111 ms

Loss rate: 1.32%

Run 10: Report of TCP Cubic — Data Link

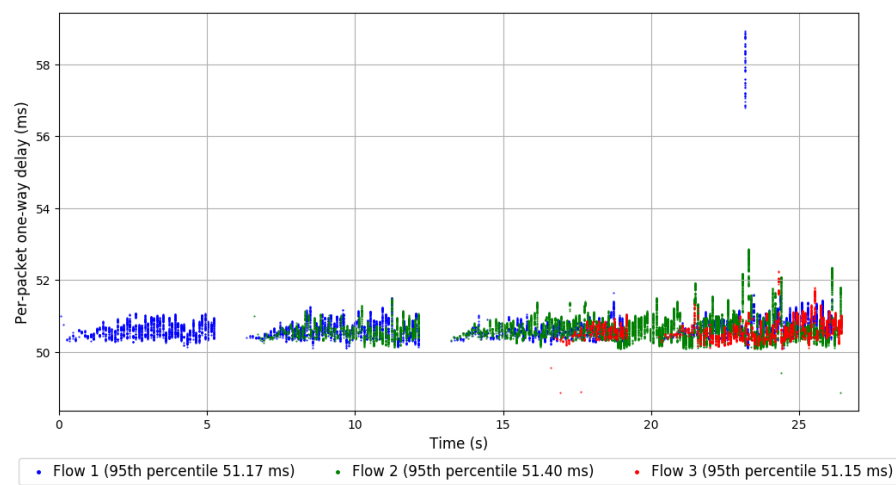
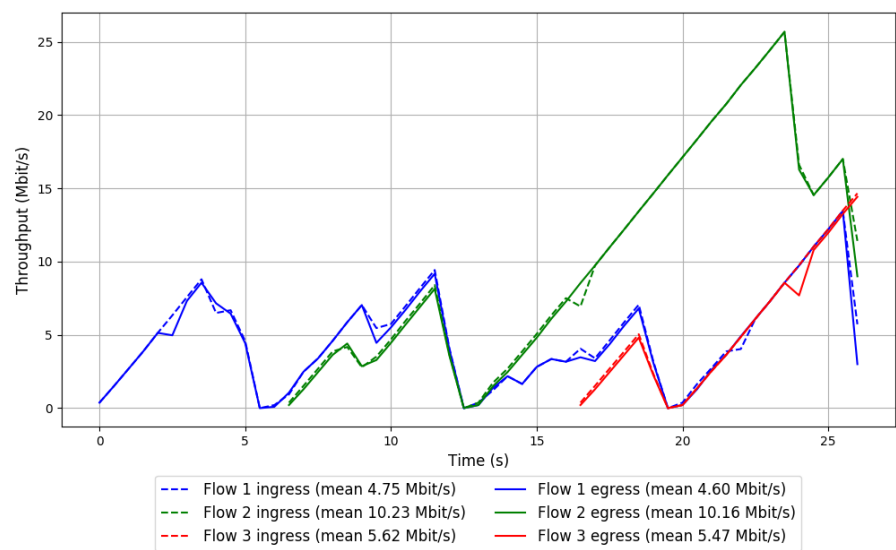


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 23:19:27
End at: 2018-01-02 23:19:57

# Below is generated by plot.py at 2018-01-03 04:00:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 51.284 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 51.166 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 51.395 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 51.146 ms
Loss rate: 3.78%
```


Run 1: Report of LEDBAT — Data Link

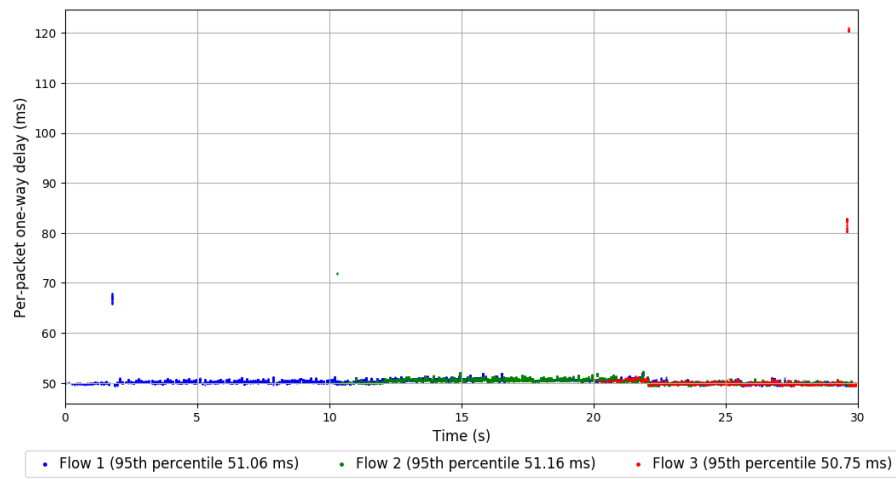
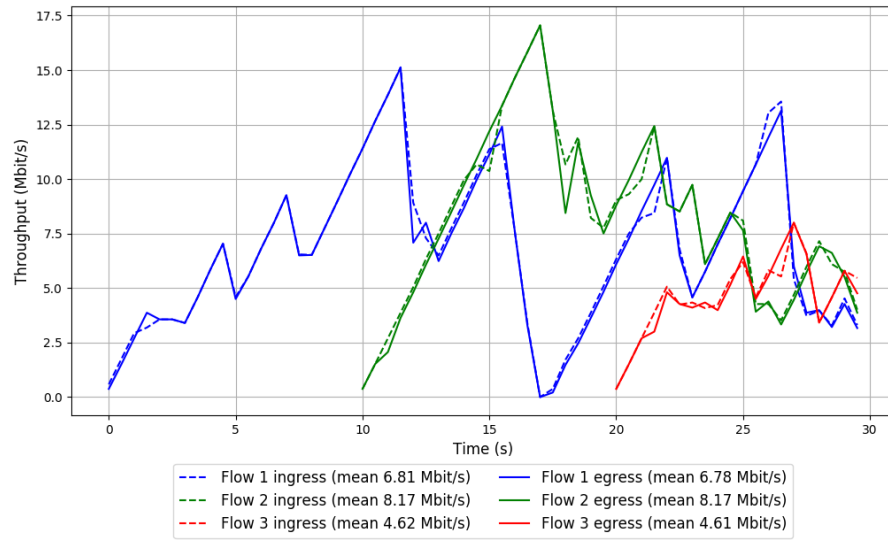


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-02 23:33:45
End at: 2018-01-02 23:34:15

# Below is generated by plot.py at 2018-01-03 04:00:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 51.061 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 51.159 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 50.747 ms
Loss rate: 1.20%
```

Run 2: Report of LEDBAT — Data Link

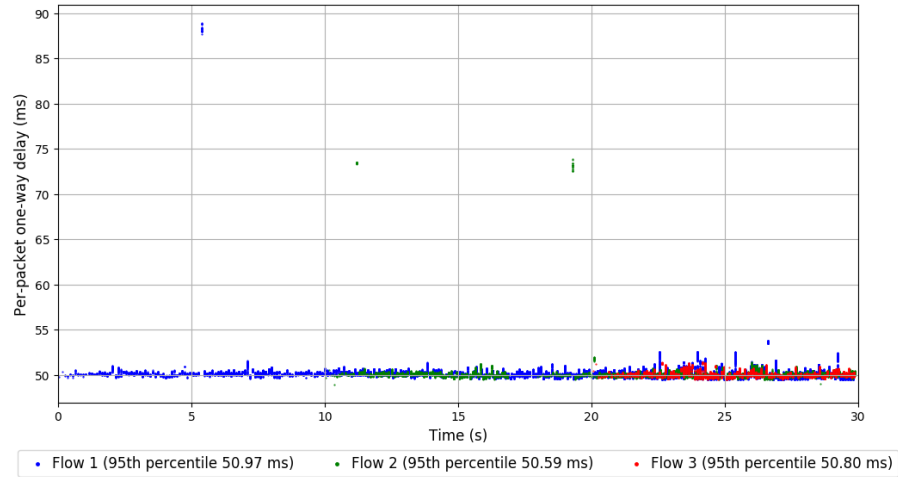
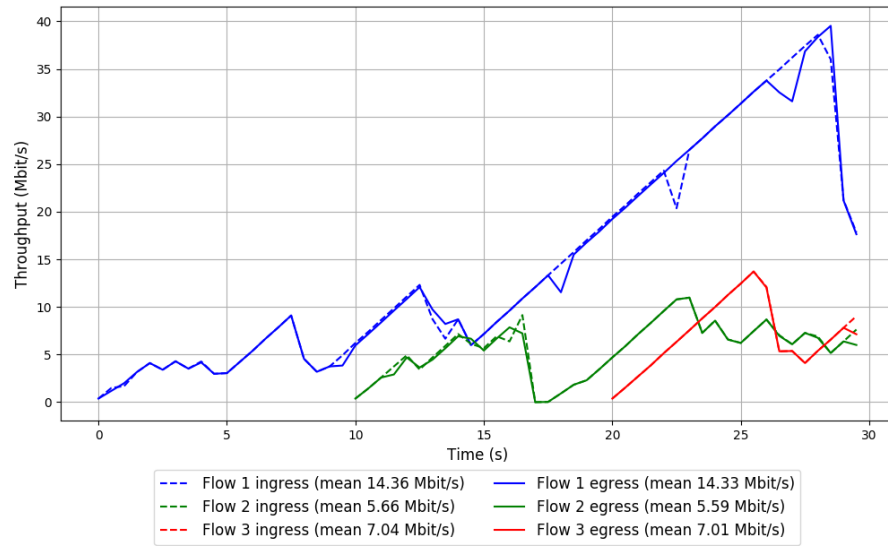


```
Run 3: Statistics of LEDBAT

Start at: 2018-01-02 23:48:02
End at: 2018-01-02 23:48:32

# Below is generated by plot.py at 2018-01-03 04:00:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 50.970 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 50.588 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 1.41%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-03 00:01:33

End at: 2018-01-03 00:02:03

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 51.793 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 51.835 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 51.721 ms

Loss rate: 2.36%

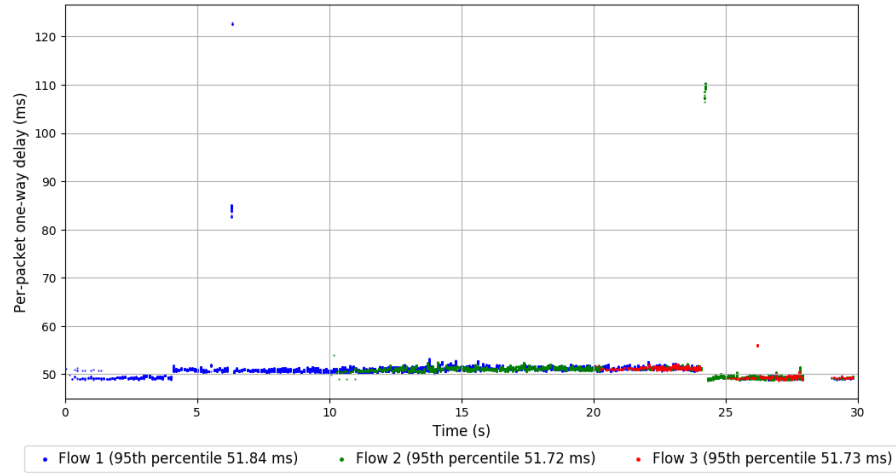
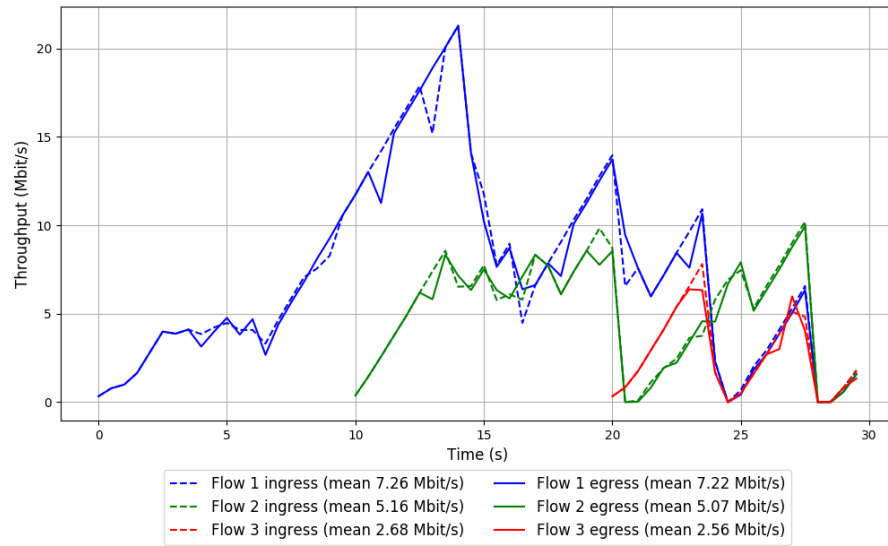
-- Flow 3:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 51.727 ms

Loss rate: 5.65%

Run 4: Report of LEDBAT — Data Link

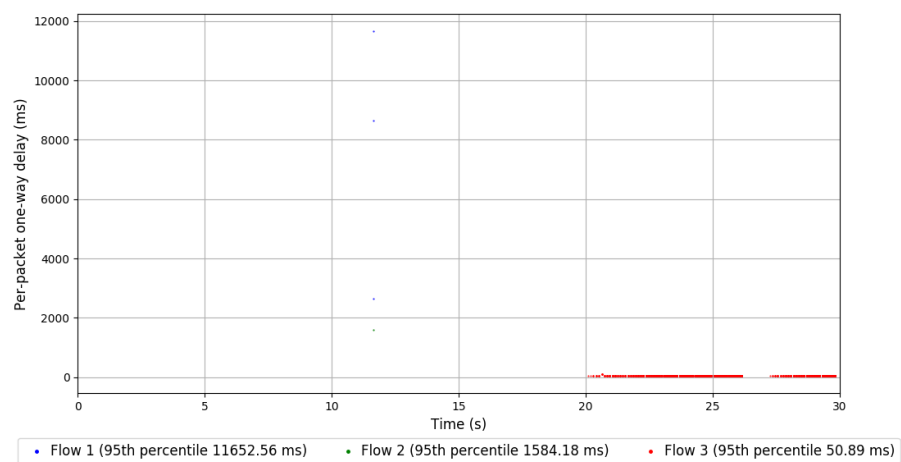
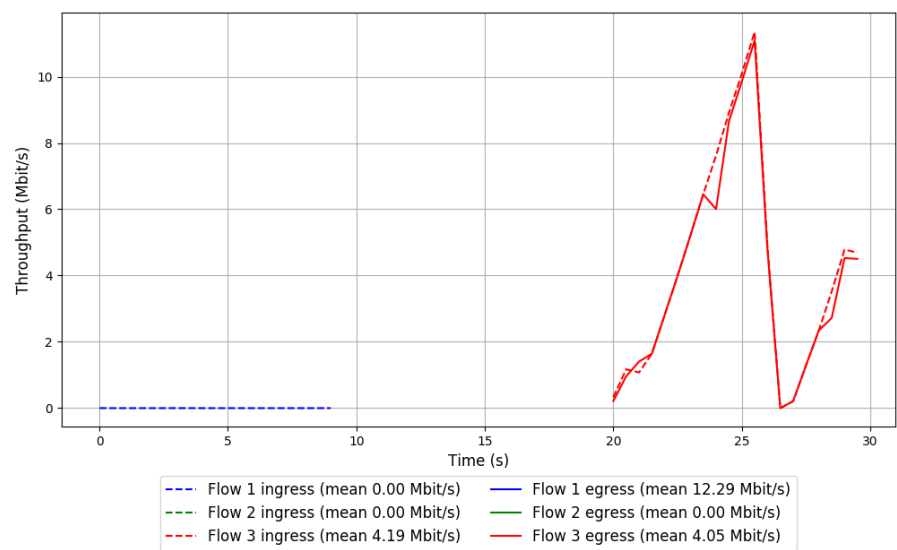


Run 5: Statistics of LEDBAT

Start at: 2018-01-03 00:14:10

End at: 2018-01-03 00:14:40

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-03 00:26:55

End at: 2018-01-03 00:27:25

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 51.949 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 8.69 Mbit/s

95th percentile per-packet one-way delay: 51.892 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 1.56%

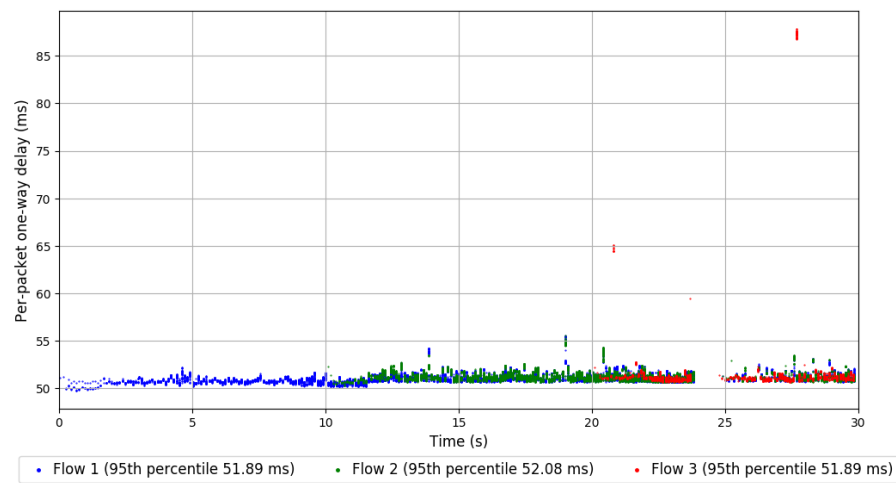
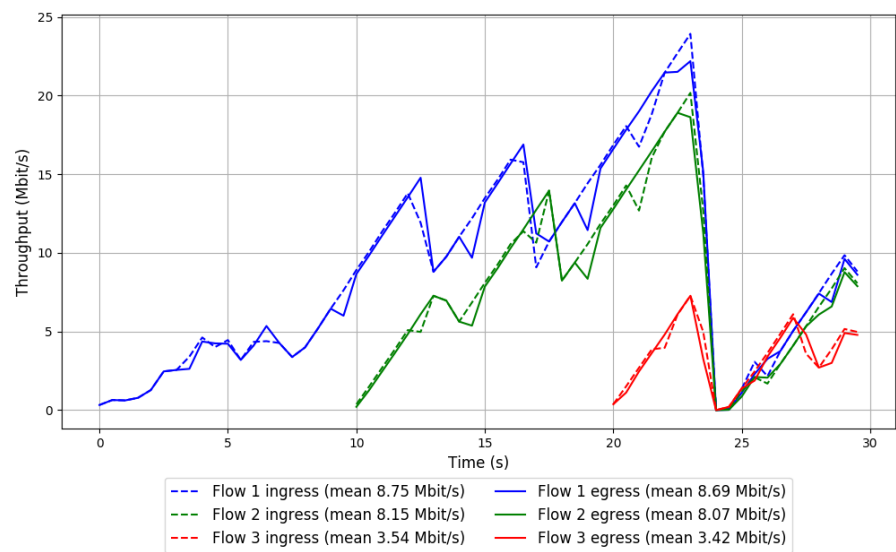
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 4.48%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-03 00:39:32

End at: 2018-01-03 00:40:02

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 51.747 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 51.777 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 51.544 ms

Loss rate: 1.36%

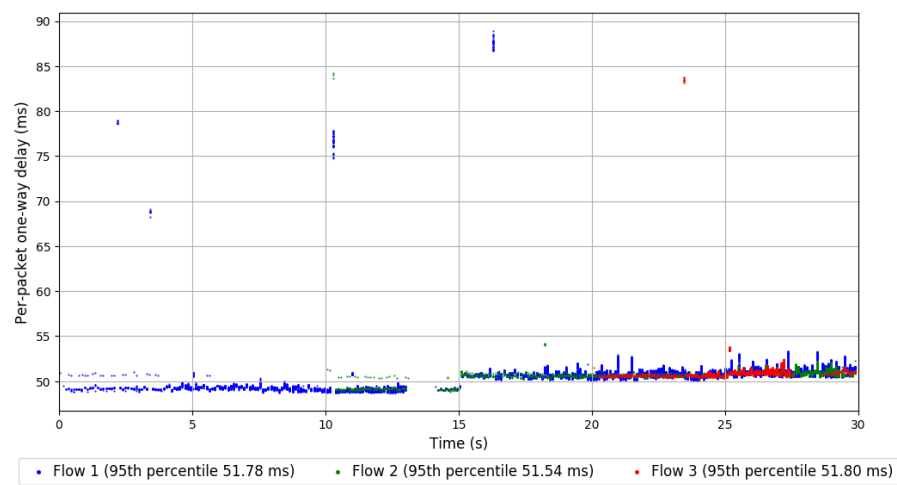
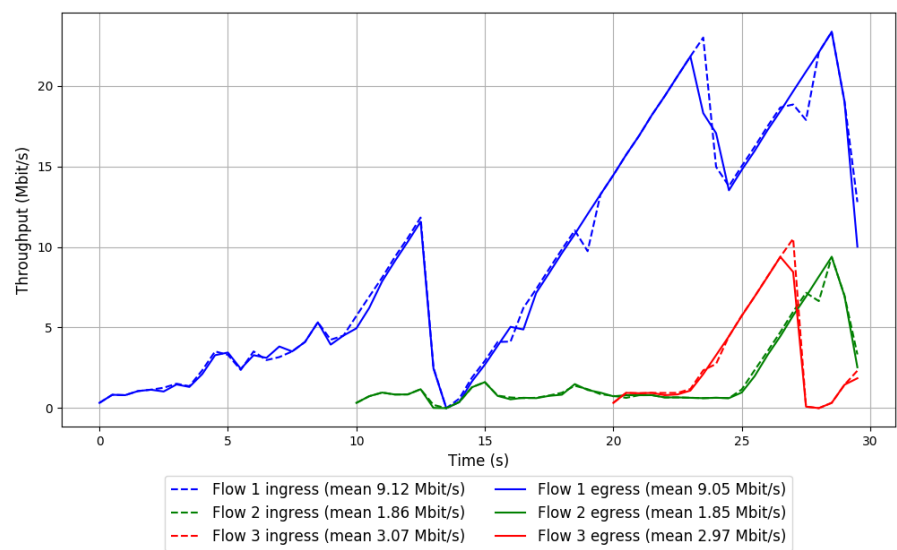
-- Flow 3:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 51.798 ms

Loss rate: 4.29%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-03 00:53:37

End at: 2018-01-03 00:54:07

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 13.77 Mbit/s

95th percentile per-packet one-way delay: 50.736 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 50.811 ms

Loss rate: 1.62%

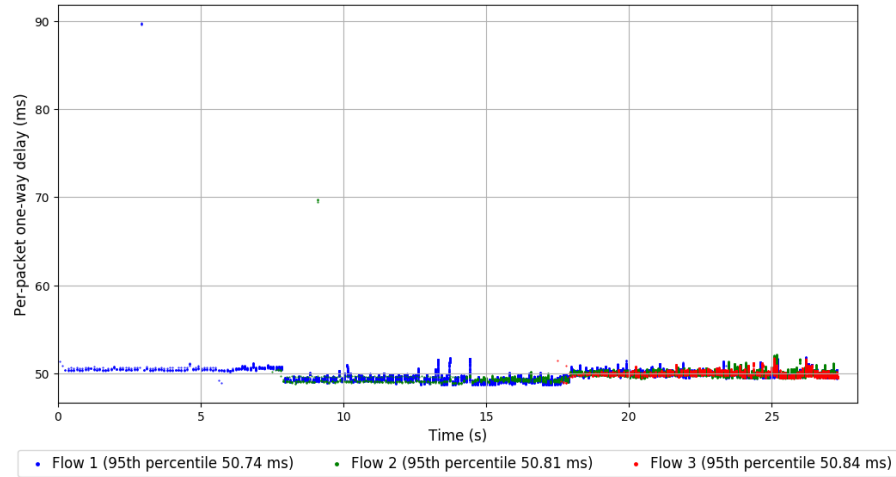
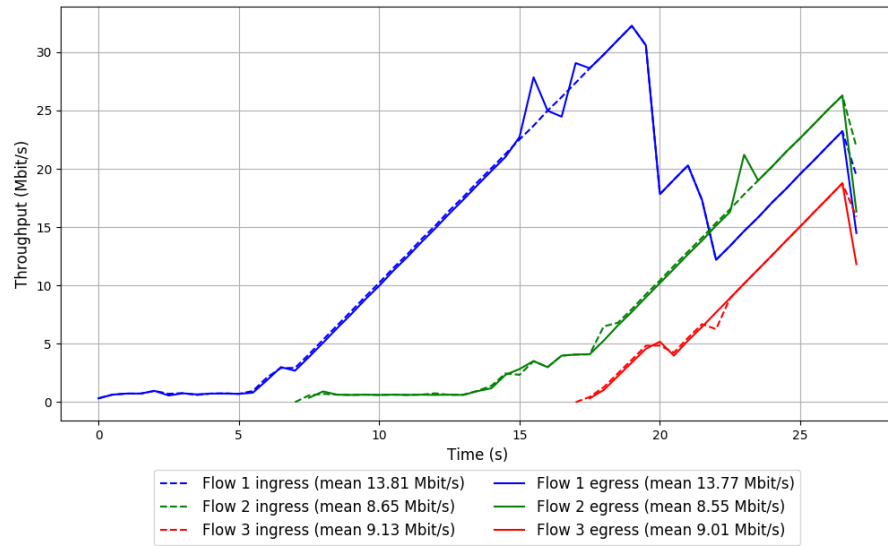
-- Flow 3:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 2.27%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-03 01:08:06

End at: 2018-01-03 01:08:36

Below is generated by plot.py at 2018-01-03 04:00:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 51.237 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 51.164 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 51.341 ms

Loss rate: 2.38%

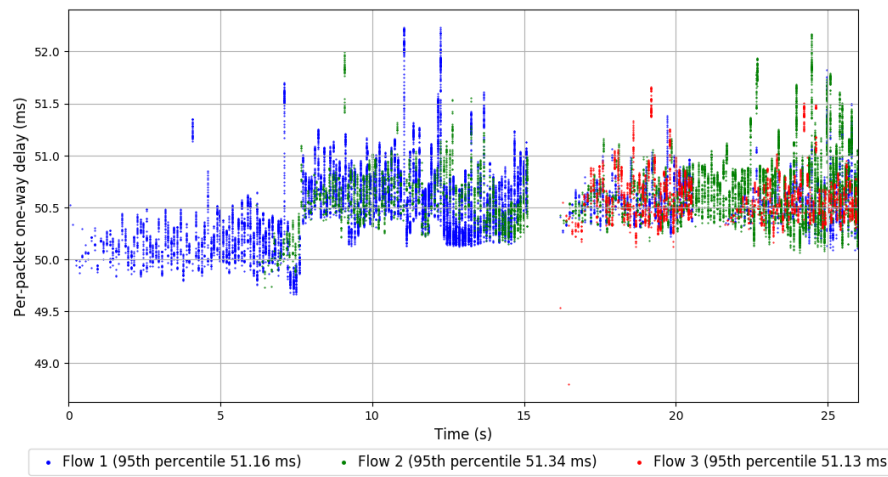
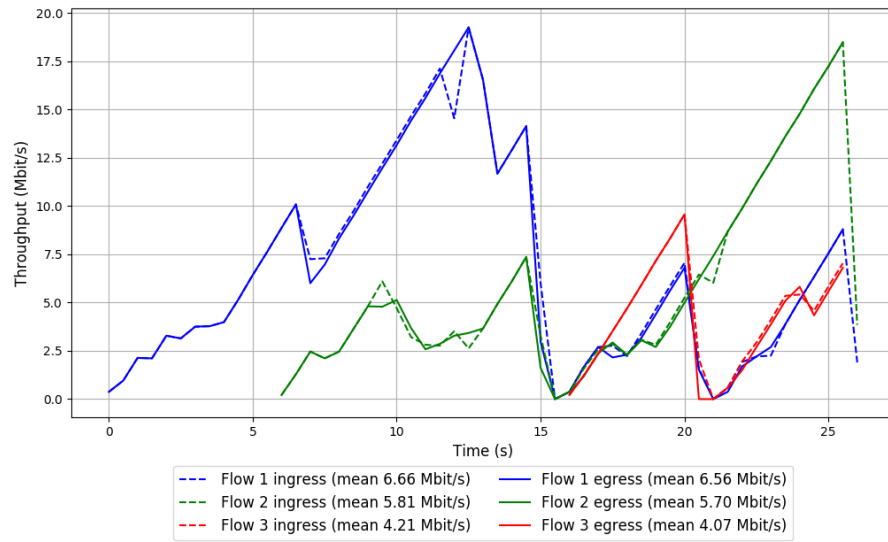
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 51.128 ms

Loss rate: 4.31%

Run 9: Report of LEDBAT — Data Link

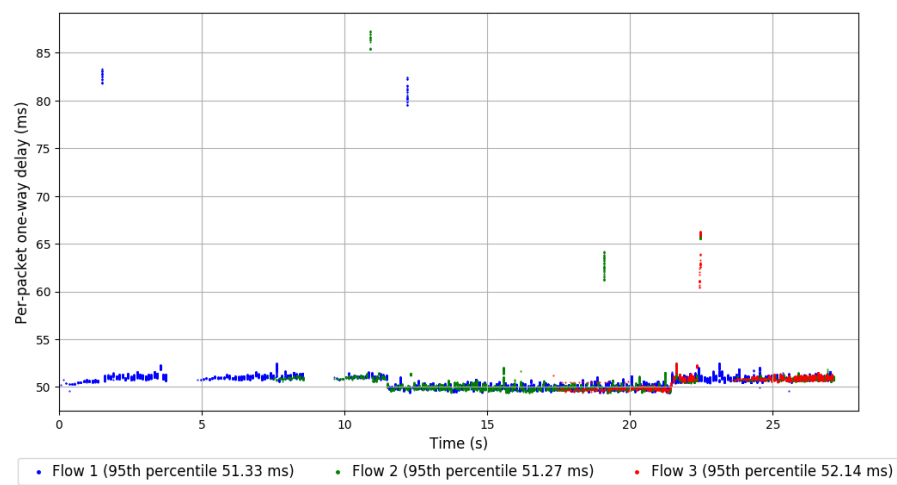
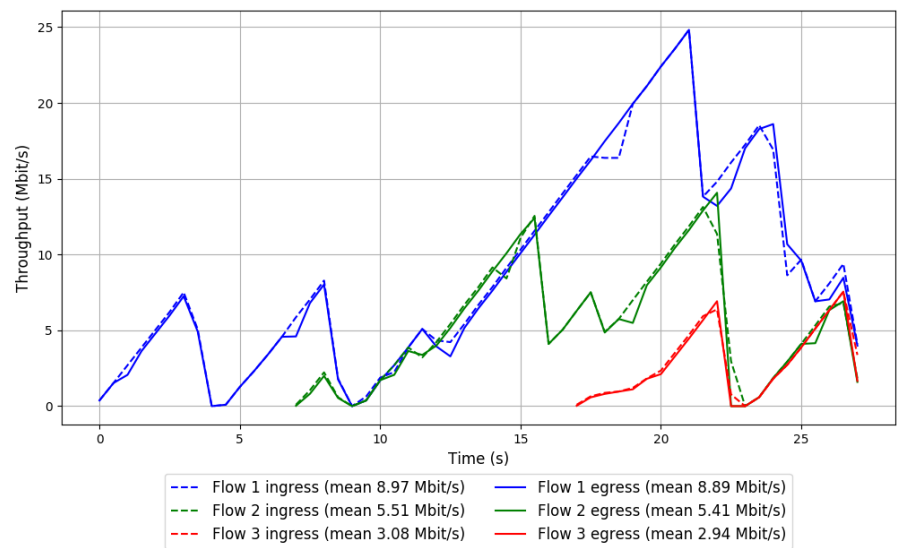


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-03 01:22:23
End at: 2018-01-03 01:22:53

# Below is generated by plot.py at 2018-01-03 04:00:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 51.337 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 8.89 Mbit/s
95th percentile per-packet one-way delay: 51.333 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 51.275 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 52.143 ms
Loss rate: 5.34%
```

Run 10: Report of LEDBAT — Data Link

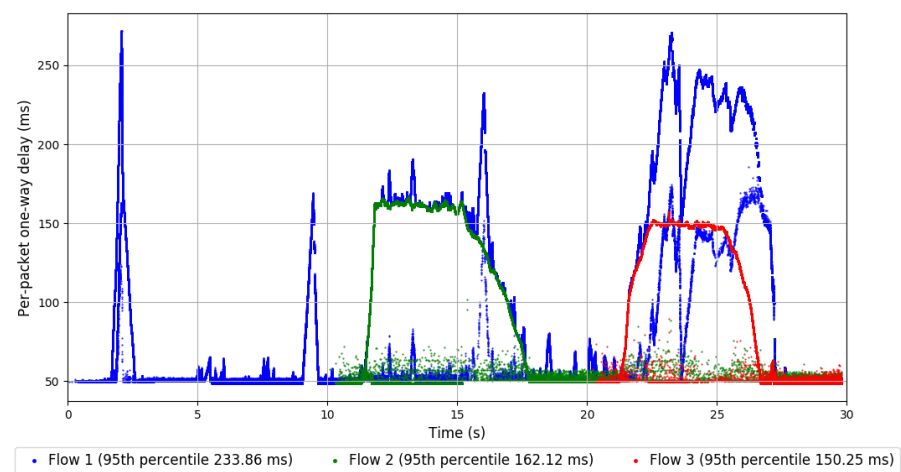
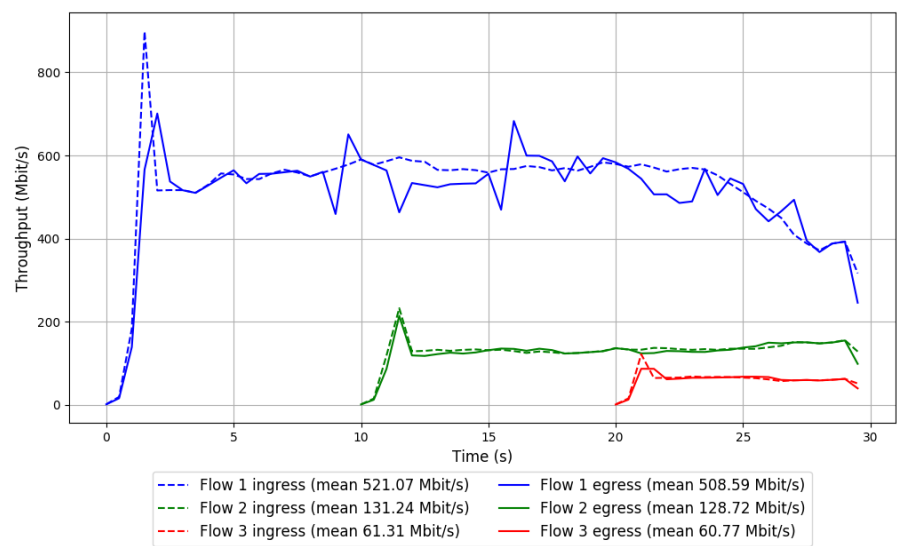


```
Run 1: Statistics of PCC

Start at: 2018-01-02 23:05:51
End at: 2018-01-02 23:06:21

# Below is generated by plot.py at 2018-01-03 04:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 613.73 Mbit/s
95th percentile per-packet one-way delay: 229.788 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 508.59 Mbit/s
95th percentile per-packet one-way delay: 233.857 ms
Loss rate: 2.83%
-- Flow 2:
Average throughput: 128.72 Mbit/s
95th percentile per-packet one-way delay: 162.117 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 60.77 Mbit/s
95th percentile per-packet one-way delay: 150.247 ms
Loss rate: 2.24%
```

Run 1: Report of PCC — Data Link

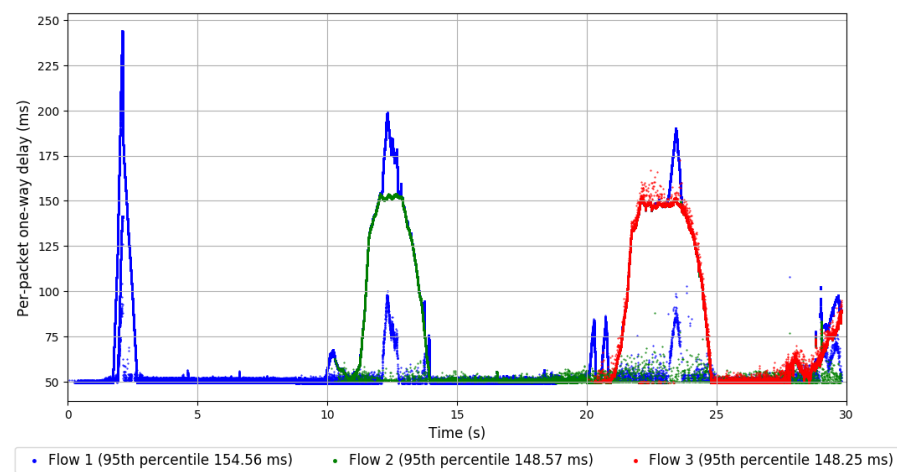
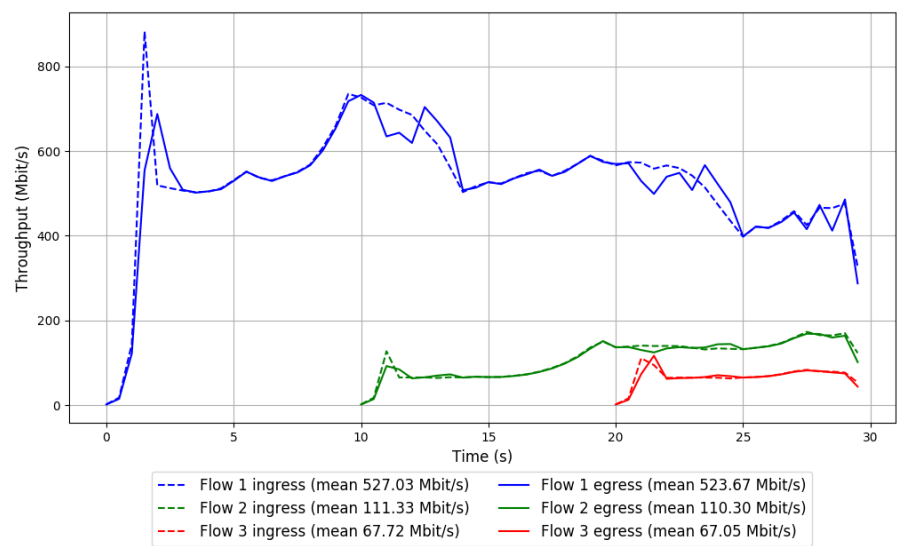


```
Run 2: Statistics of PCC

Start at: 2018-01-02 23:20:08
End at: 2018-01-02 23:20:38

# Below is generated by plot.py at 2018-01-03 04:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 618.82 Mbit/s
95th percentile per-packet one-way delay: 152.533 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 523.67 Mbit/s
95th percentile per-packet one-way delay: 154.555 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 110.30 Mbit/s
95th percentile per-packet one-way delay: 148.567 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 67.05 Mbit/s
95th percentile per-packet one-way delay: 148.253 ms
Loss rate: 2.02%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 23:34:26

End at: 2018-01-02 23:34:56

Below is generated by plot.py at 2018-01-03 04:10:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 686.20 Mbit/s

95th percentile per-packet one-way delay: 148.731 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 642.43 Mbit/s

95th percentile per-packet one-way delay: 149.032 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 146.809 ms

Loss rate: 2.09%

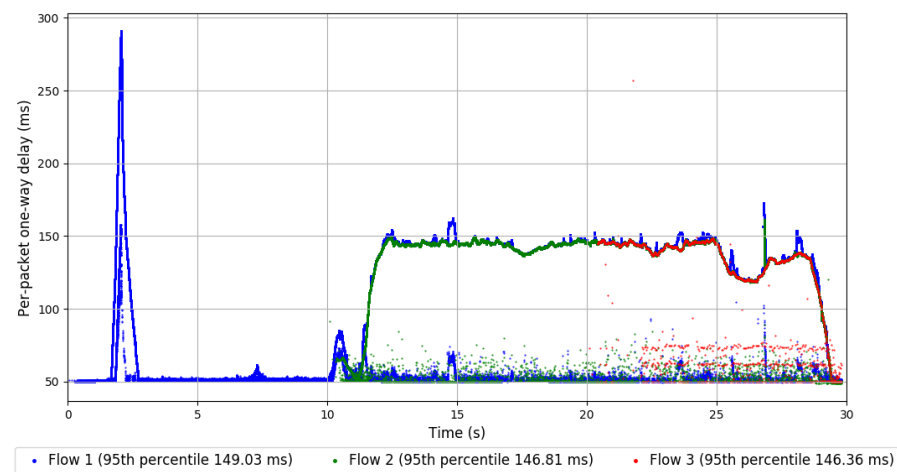
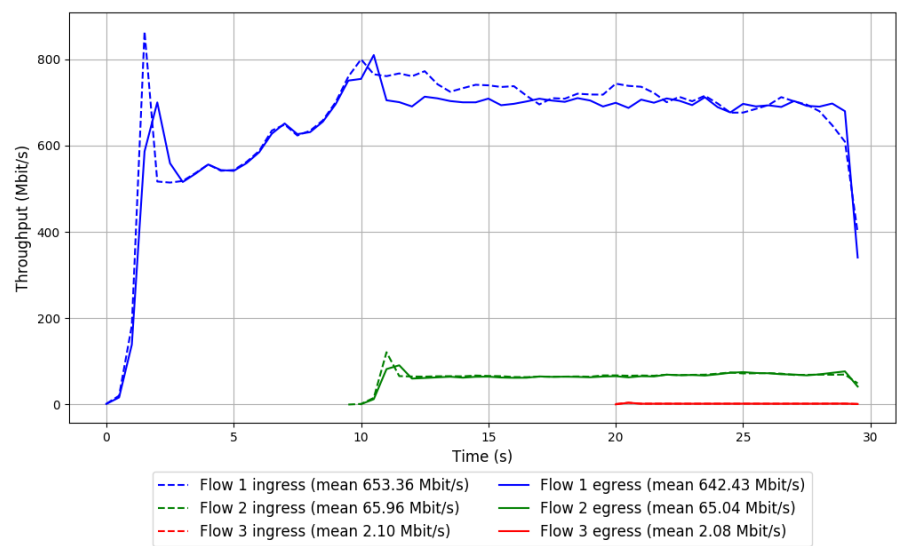
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 146.359 ms

Loss rate: 2.12%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 23:48:44

End at: 2018-01-02 23:49:14

Below is generated by plot.py at 2018-01-03 04:10:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 625.13 Mbit/s

95th percentile per-packet one-way delay: 163.557 ms

Loss rate: 8.68%

-- Flow 1:

Average throughput: 476.80 Mbit/s

95th percentile per-packet one-way delay: 163.834 ms

Loss rate: 8.29%

-- Flow 2:

Average throughput: 222.86 Mbit/s

95th percentile per-packet one-way delay: 162.893 ms

Loss rate: 9.93%

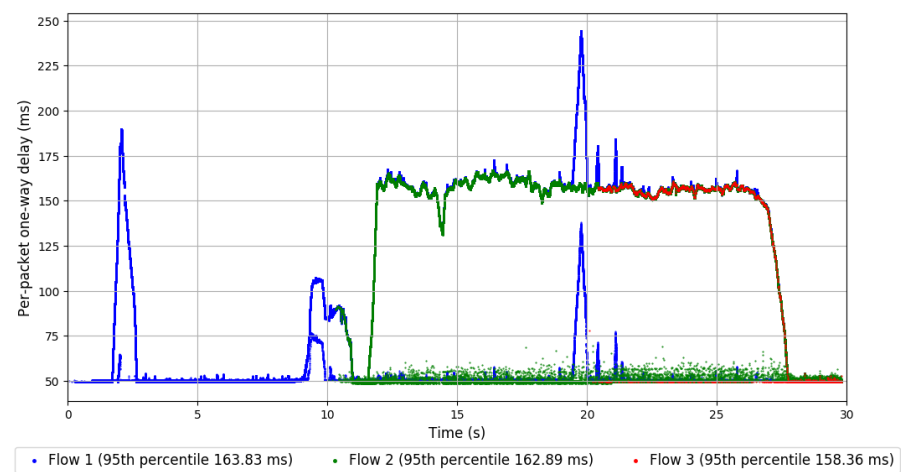
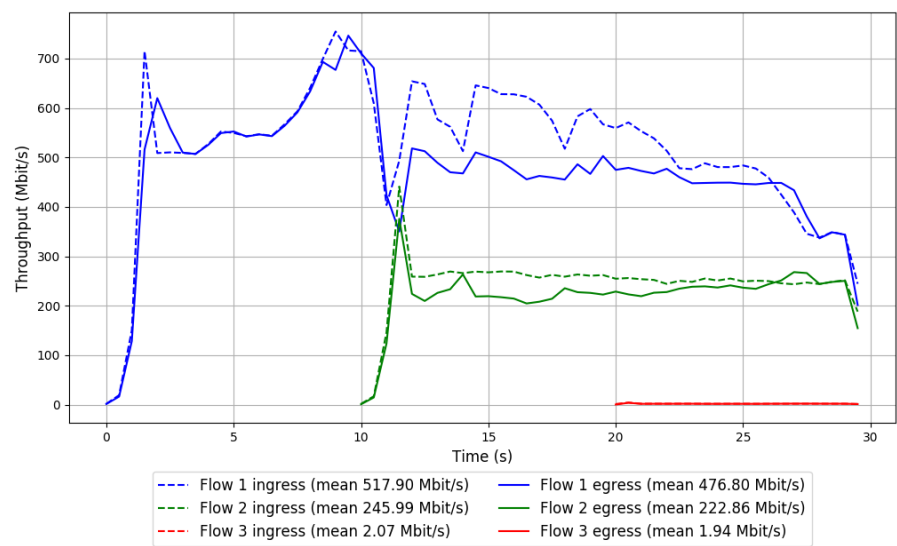
-- Flow 3:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 158.359 ms

Loss rate: 7.52%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-03 00:02:14

End at: 2018-01-03 00:02:44

Below is generated by plot.py at 2018-01-03 04:10:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 627.17 Mbit/s

95th percentile per-packet one-way delay: 155.294 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 475.74 Mbit/s

95th percentile per-packet one-way delay: 155.239 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 225.80 Mbit/s

95th percentile per-packet one-way delay: 155.402 ms

Loss rate: 3.70%

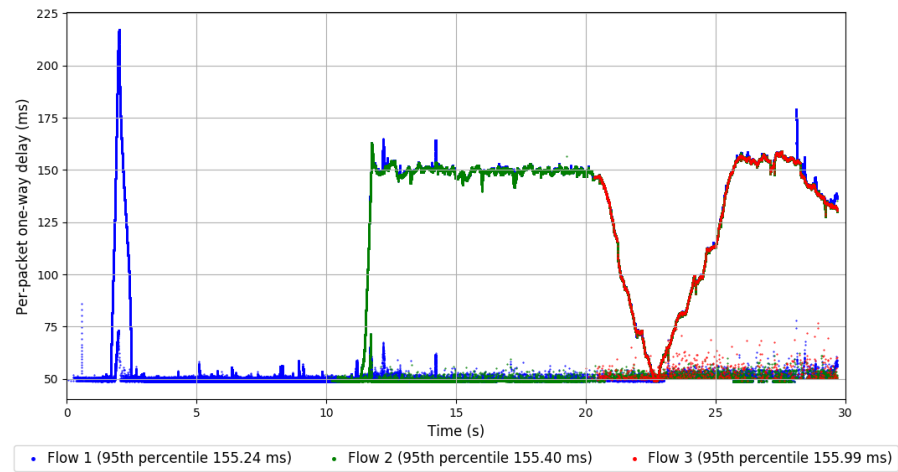
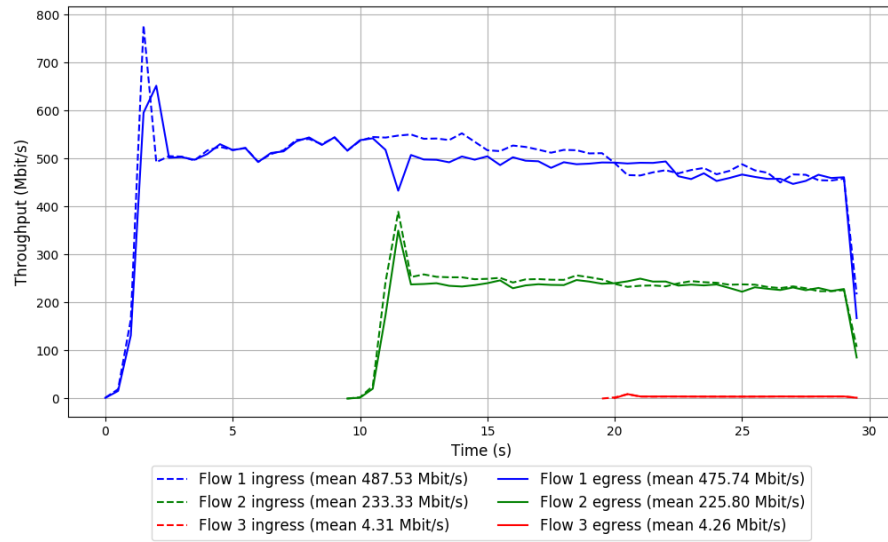
-- Flow 3:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 155.989 ms

Loss rate: 2.24%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-03 00:14:50

End at: 2018-01-03 00:15:20

Below is generated by plot.py at 2018-01-03 04:10:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 590.90 Mbit/s

95th percentile per-packet one-way delay: 158.562 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 429.96 Mbit/s

95th percentile per-packet one-way delay: 159.085 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 235.07 Mbit/s

95th percentile per-packet one-way delay: 158.035 ms

Loss rate: 1.73%

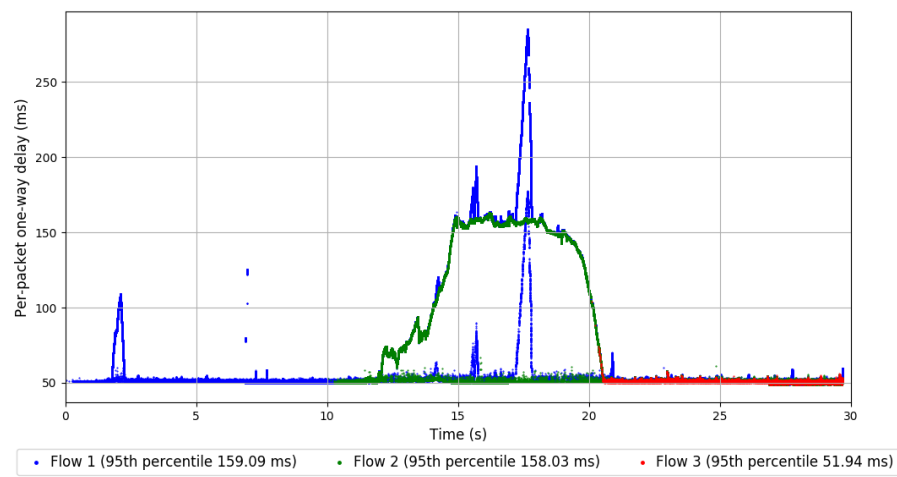
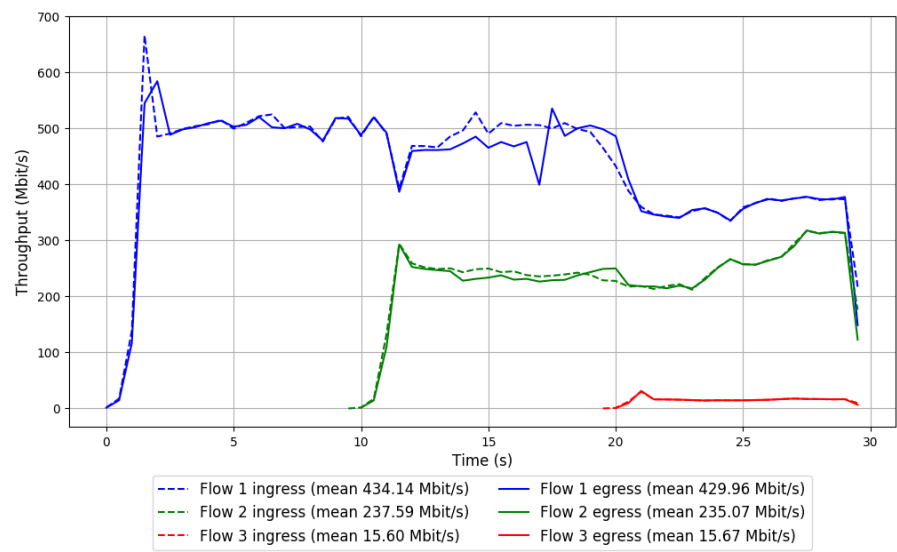
-- Flow 3:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 51.940 ms

Loss rate: 1.50%

Run 6: Report of PCC — Data Link

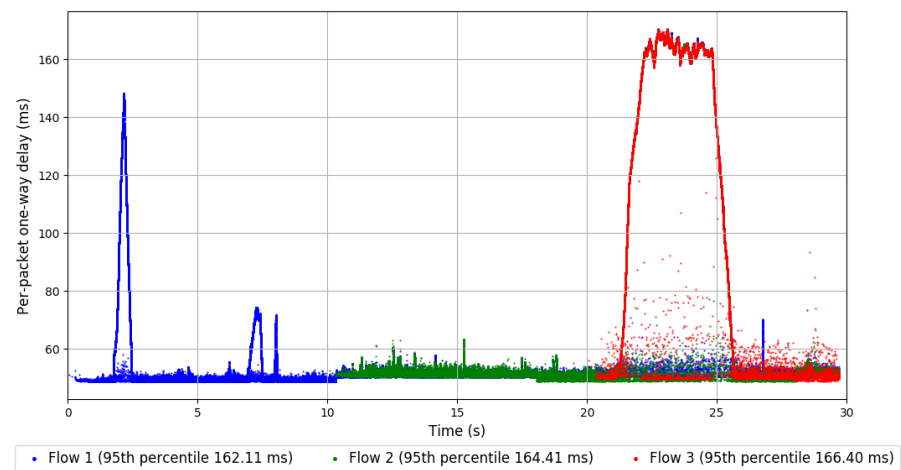
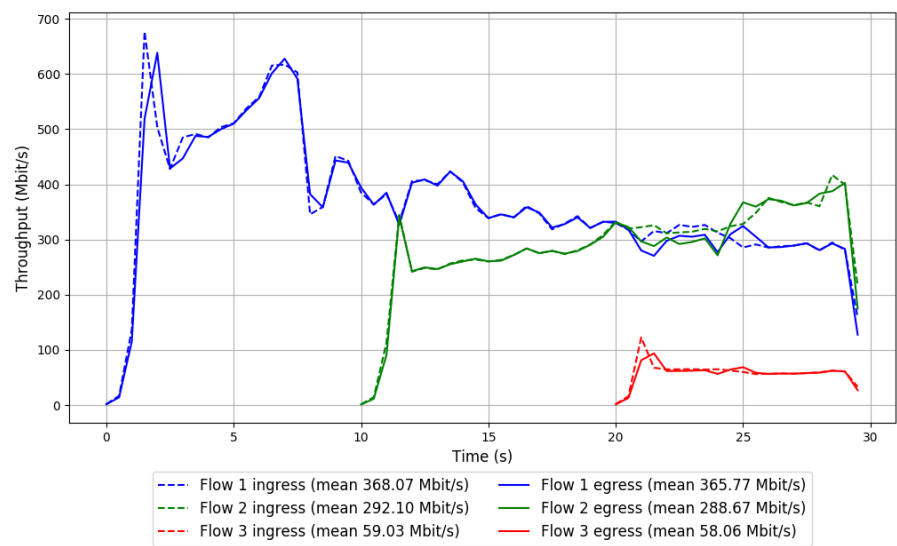


```
Run 7: Statistics of PCC

Start at: 2018-01-03 00:27:37
End at: 2018-01-03 00:28:07

# Below is generated by plot.py at 2018-01-03 04:10:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.51 Mbit/s
95th percentile per-packet one-way delay: 163.284 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 365.77 Mbit/s
95th percentile per-packet one-way delay: 162.112 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 288.67 Mbit/s
95th percentile per-packet one-way delay: 164.406 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 166.403 ms
Loss rate: 2.73%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-03 00:40:13

End at: 2018-01-03 00:40:43

Below is generated by plot.py at 2018-01-03 04:11:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.61 Mbit/s

95th percentile per-packet one-way delay: 163.400 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 527.35 Mbit/s

95th percentile per-packet one-way delay: 166.202 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 135.65 Mbit/s

95th percentile per-packet one-way delay: 159.613 ms

Loss rate: 2.54%

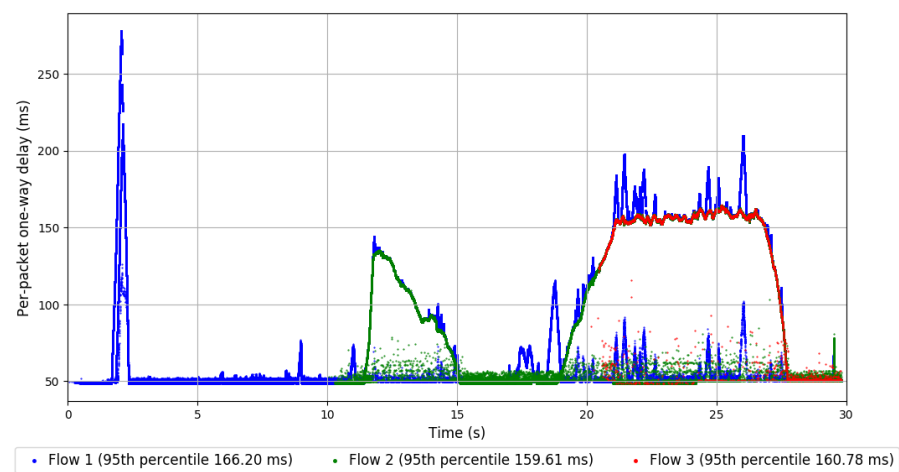
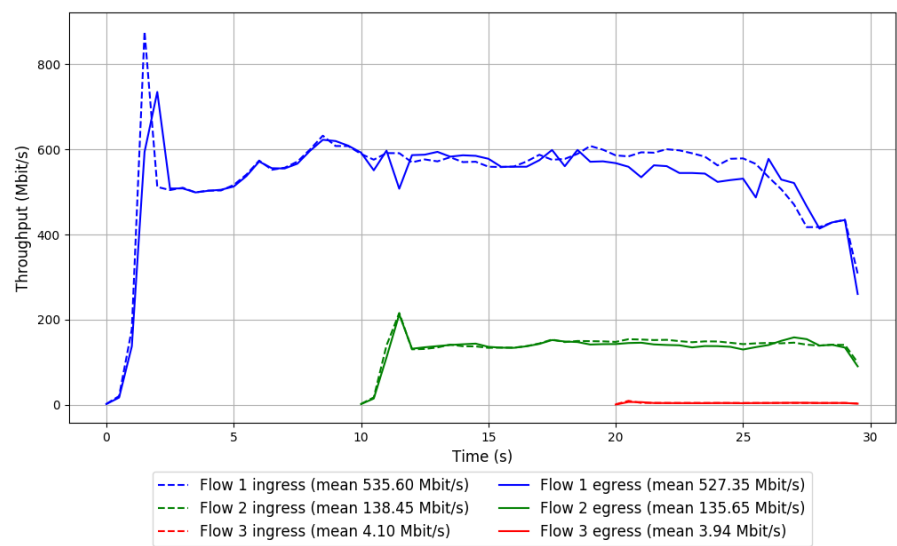
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 160.783 ms

Loss rate: 5.29%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-03 00:54:18

End at: 2018-01-03 00:54:48

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.40 Mbit/s

95th percentile per-packet one-way delay: 152.339 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 588.67 Mbit/s

95th percentile per-packet one-way delay: 152.681 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 146.081 ms

Loss rate: 1.13%

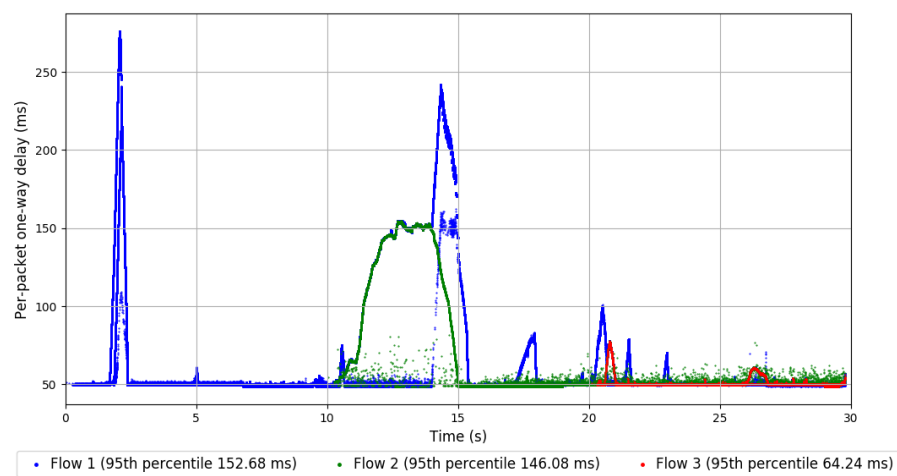
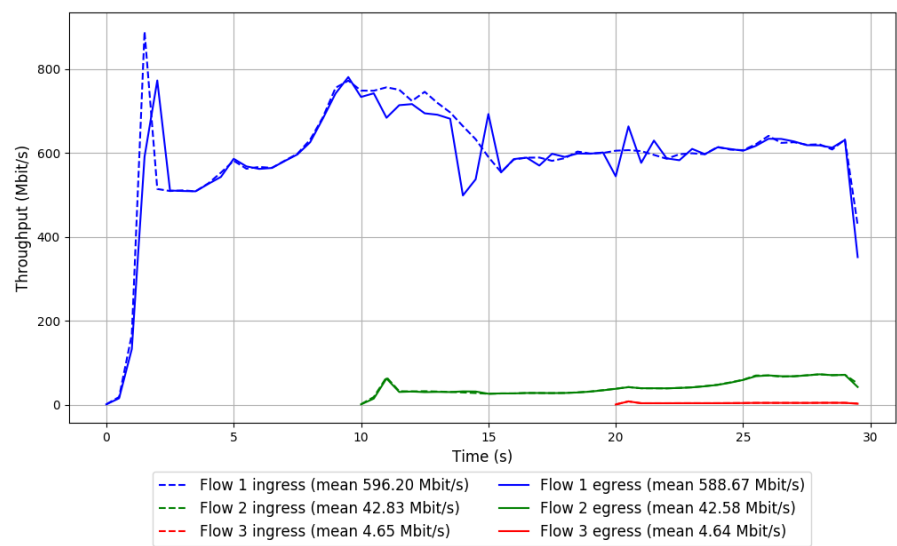
-- Flow 3:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 64.243 ms

Loss rate: 1.16%

Run 9: Report of PCC — Data Link

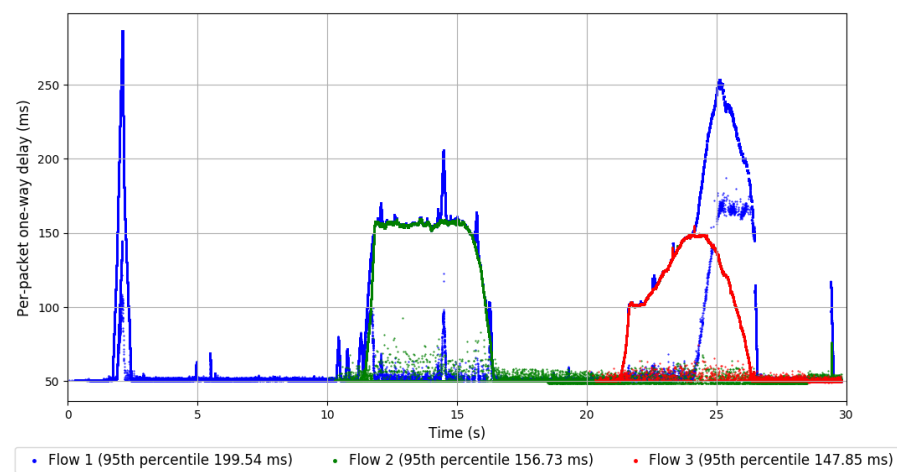
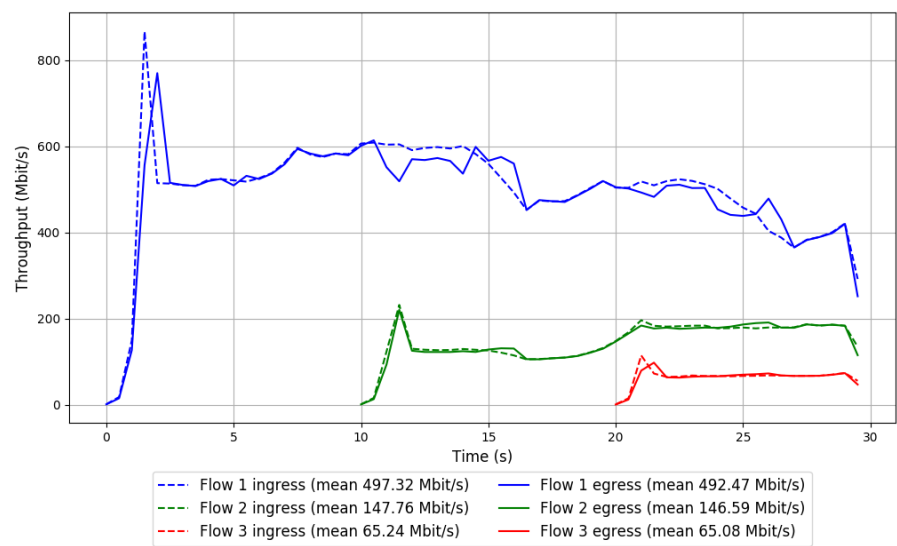


```
Run 10: Statistics of PCC

Start at: 2018-01-03 01:08:46
End at: 2018-01-03 01:09:16

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 610.94 Mbit/s
95th percentile per-packet one-way delay: 185.886 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 492.47 Mbit/s
95th percentile per-packet one-way delay: 199.541 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 146.59 Mbit/s
95th percentile per-packet one-way delay: 156.730 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 147.855 ms
Loss rate: 1.33%
```

Run 10: Report of PCC — Data Link

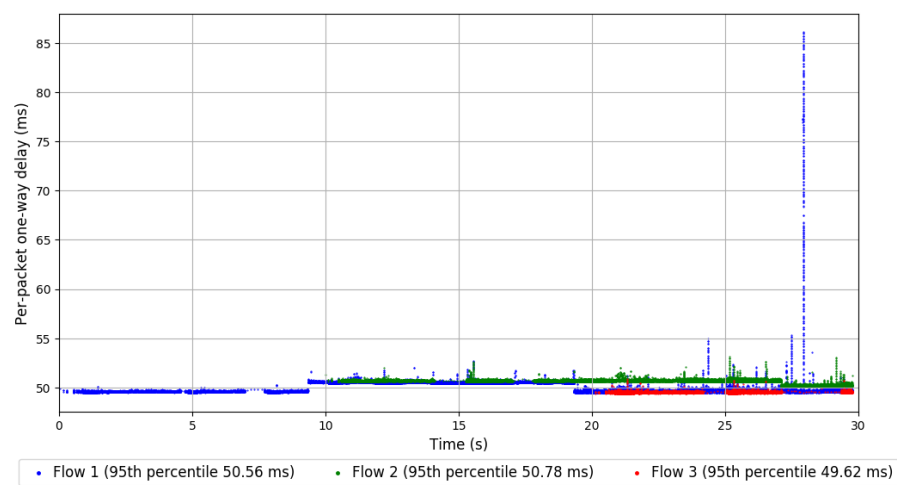
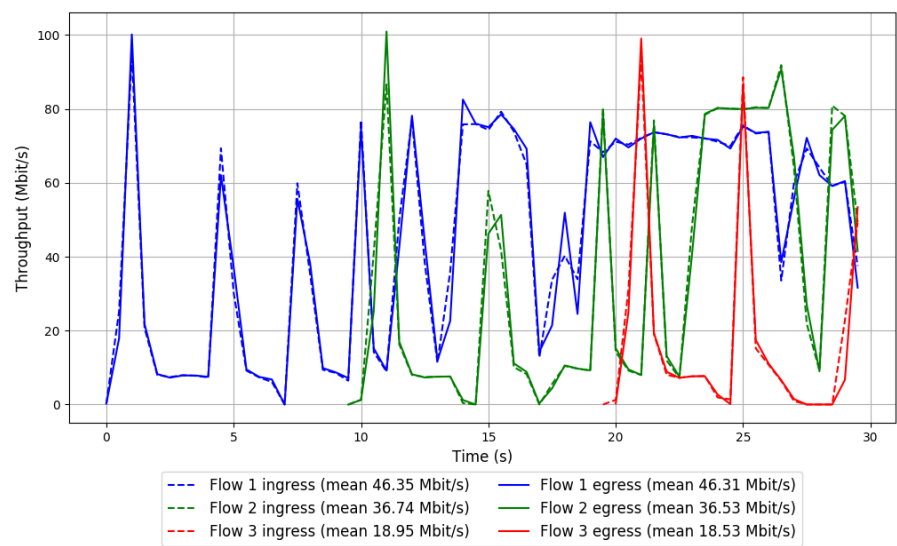


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 23:16:48
End at: 2018-01-02 23:17:18

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 50.714 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 46.31 Mbit/s
95th percentile per-packet one-way delay: 50.558 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 36.53 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 18.53 Mbit/s
95th percentile per-packet one-way delay: 49.625 ms
Loss rate: 3.21%
```


Run 1: Report of QUIC Cubic — Data Link

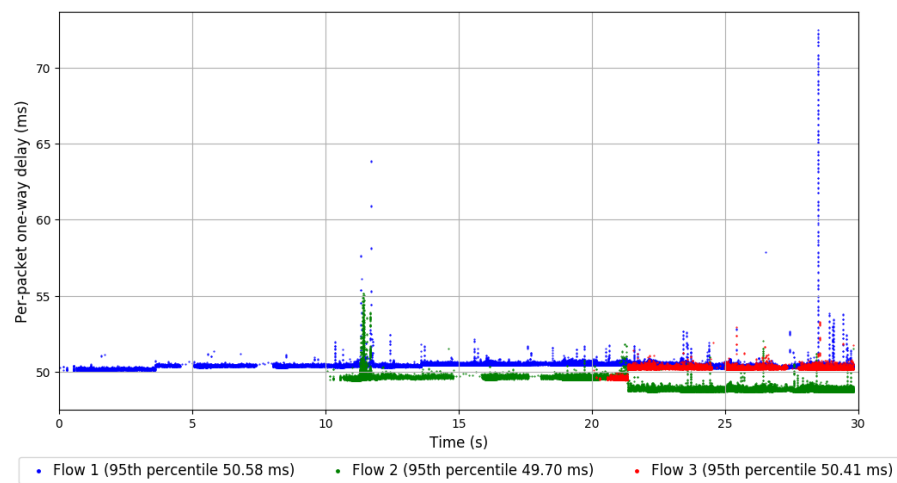
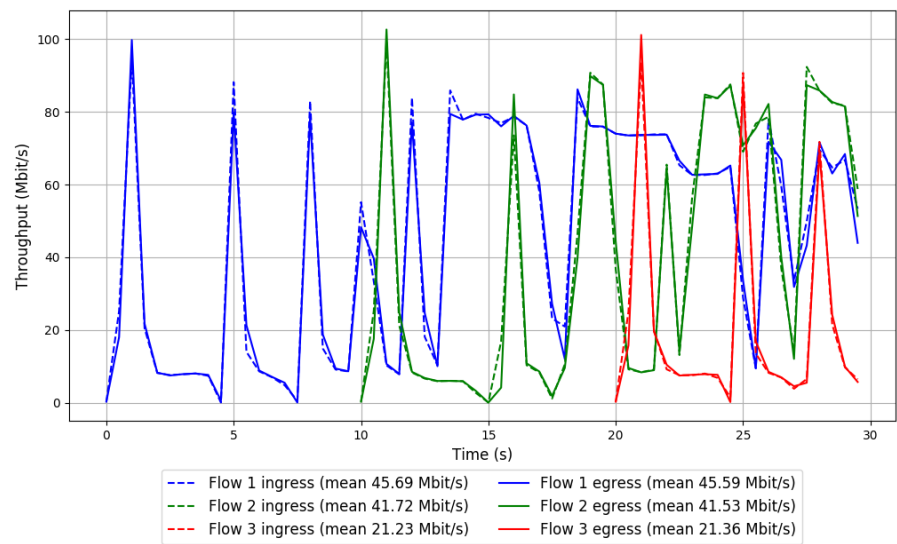


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 23:31:03
End at: 2018-01-02 23:31:33

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 50.552 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 50.577 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 49.698 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 21.36 Mbit/s
95th percentile per-packet one-way delay: 50.413 ms
Loss rate: 0.41%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 23:45:31

End at: 2018-01-02 23:46:01

Run 3: Report of QUIC Cubic — Data Link

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Figure is missing

Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 23:58:59

End at: 2018-01-02 23:59:29

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.29 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 65.60 Mbit/s

95th percentile per-packet one-way delay: 50.786 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 60.00 Mbit/s

95th percentile per-packet one-way delay: 50.724 ms

Loss rate: 0.19%

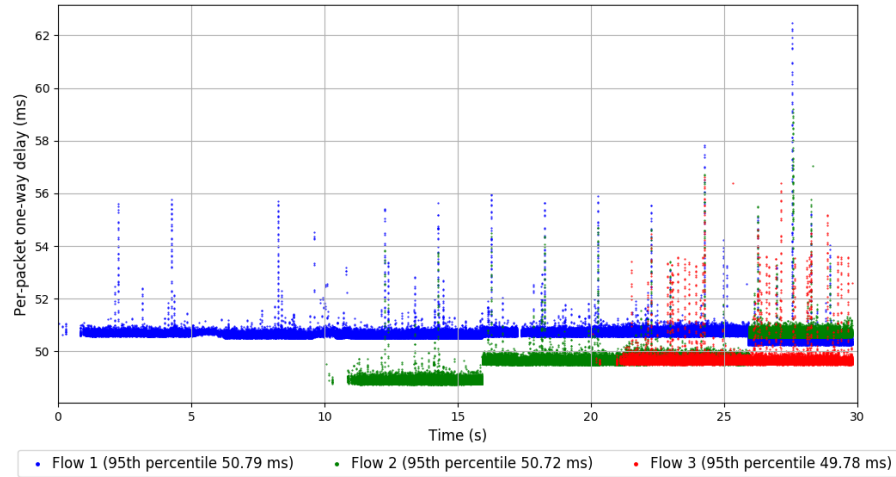
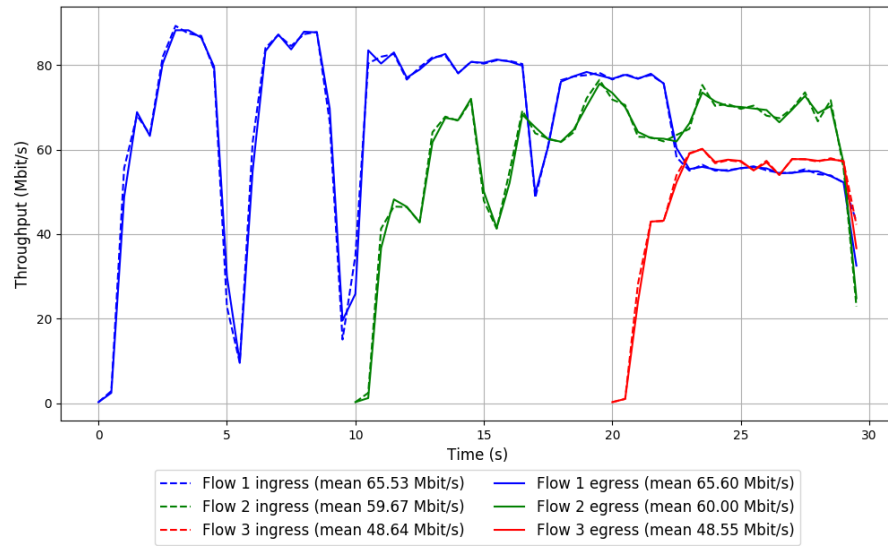
-- Flow 3:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 49.784 ms

Loss rate: 1.18%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-03 00:11:41

End at: 2018-01-03 00:12:11

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.37 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.574 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 51.000 ms

Loss rate: 0.60%

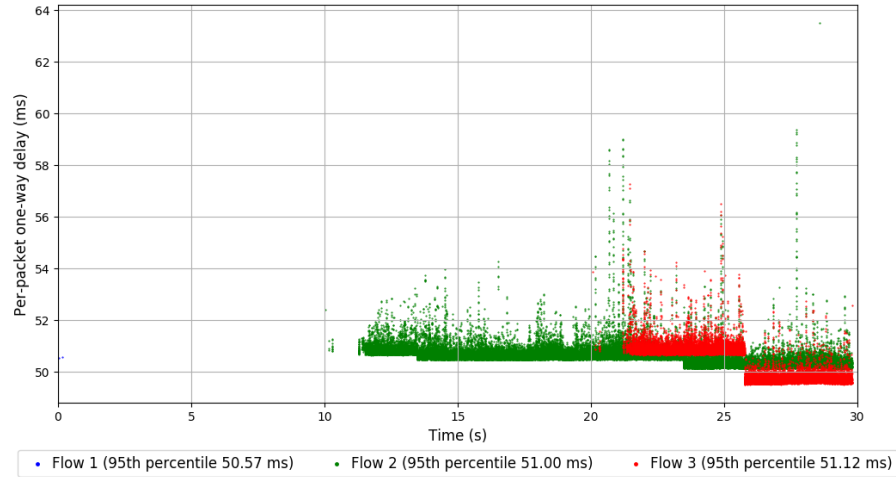
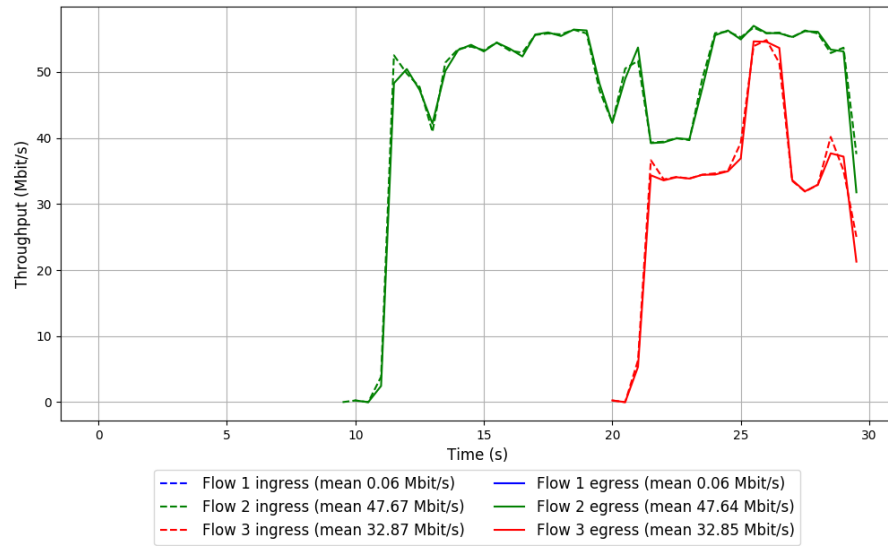
-- Flow 3:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 51.117 ms

Loss rate: 1.13%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-03 00:24:27

End at: 2018-01-03 00:24:57

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.39 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.960 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.40 Mbit/s

95th percentile per-packet one-way delay: 50.626 ms

Loss rate: 0.40%

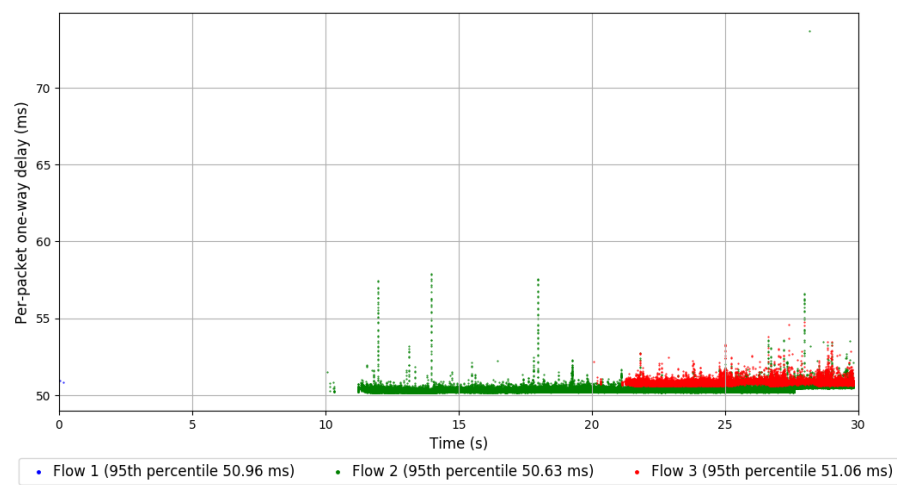
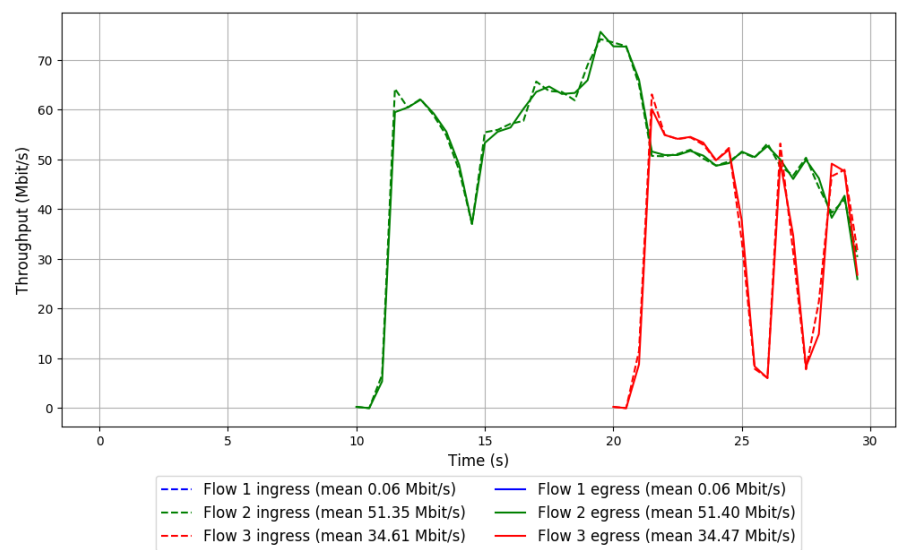
-- Flow 3:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 51.062 ms

Loss rate: 1.47%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-03 00:37:04

End at: 2018-01-03 00:37:34

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.483 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.93 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.55%

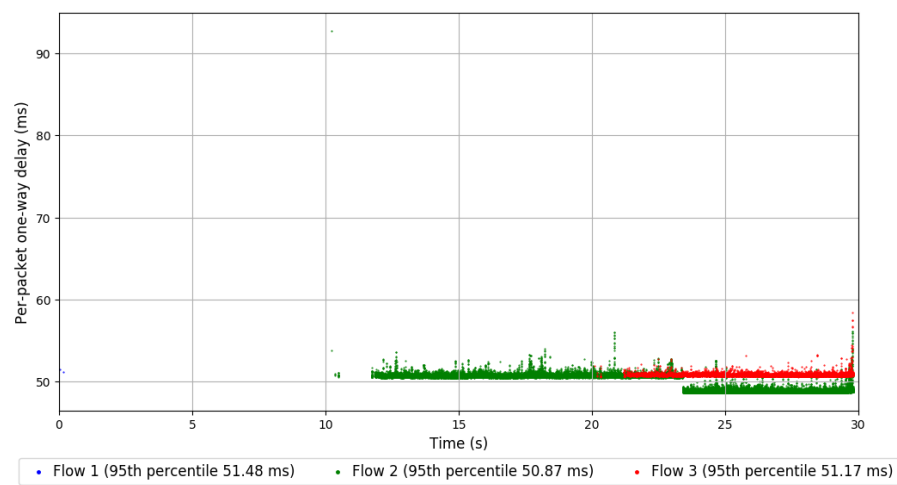
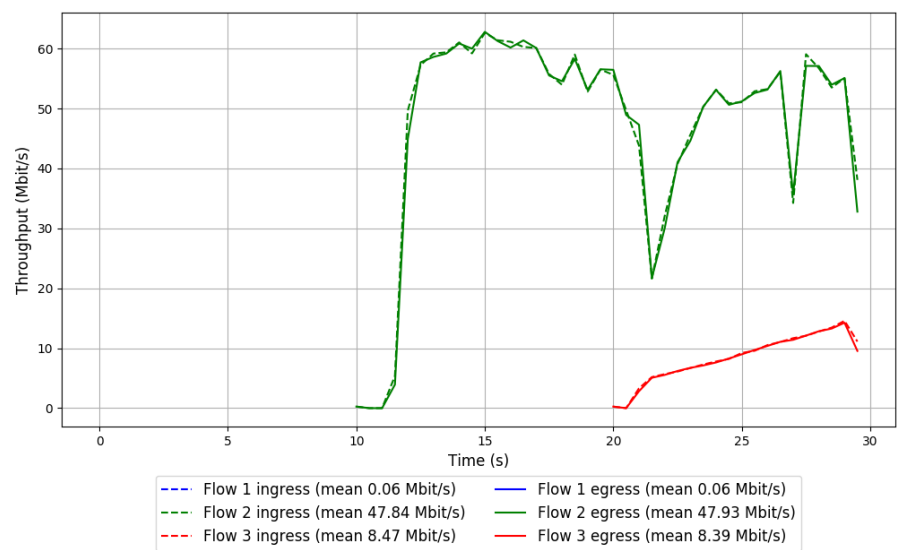
-- Flow 3:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 51.168 ms

Loss rate: 1.98%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-03 00:50:56

End at: 2018-01-03 00:51:26

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.63 Mbit/s

95th percentile per-packet one-way delay: 50.625 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 41.23 Mbit/s

95th percentile per-packet one-way delay: 50.226 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 50.763 ms

Loss rate: 0.75%

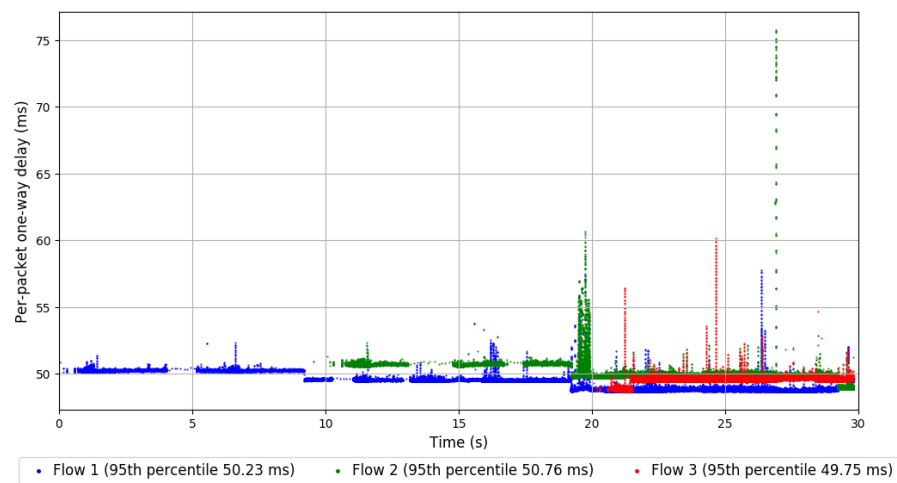
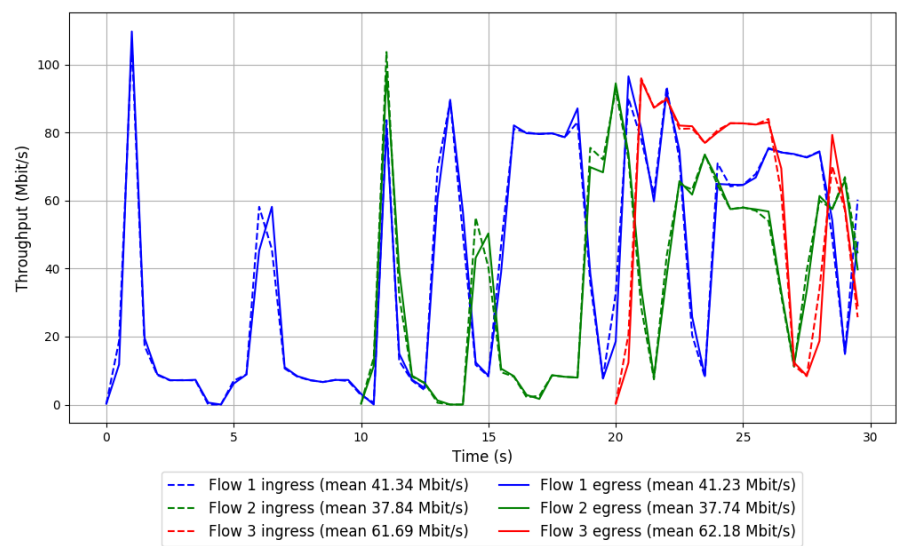
-- Flow 3:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 49.754 ms

Loss rate: 0.23%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.92 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 50.339 ms

Loss rate: 0.60%

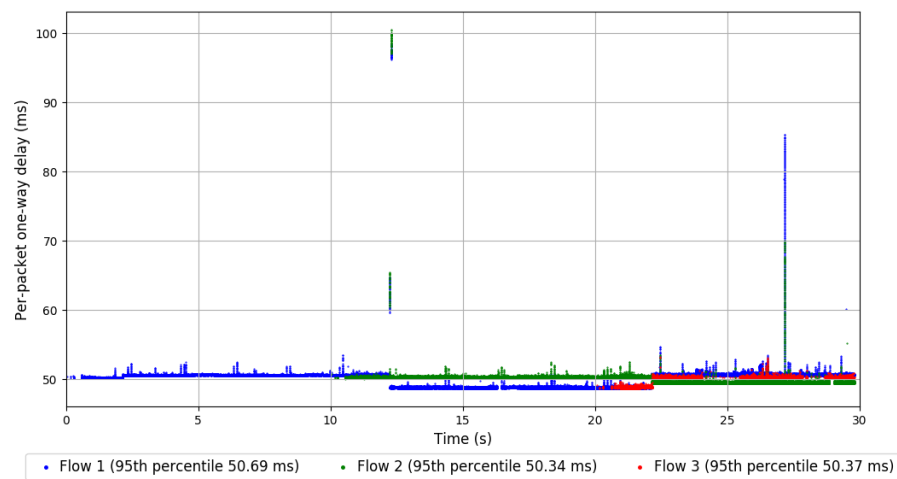
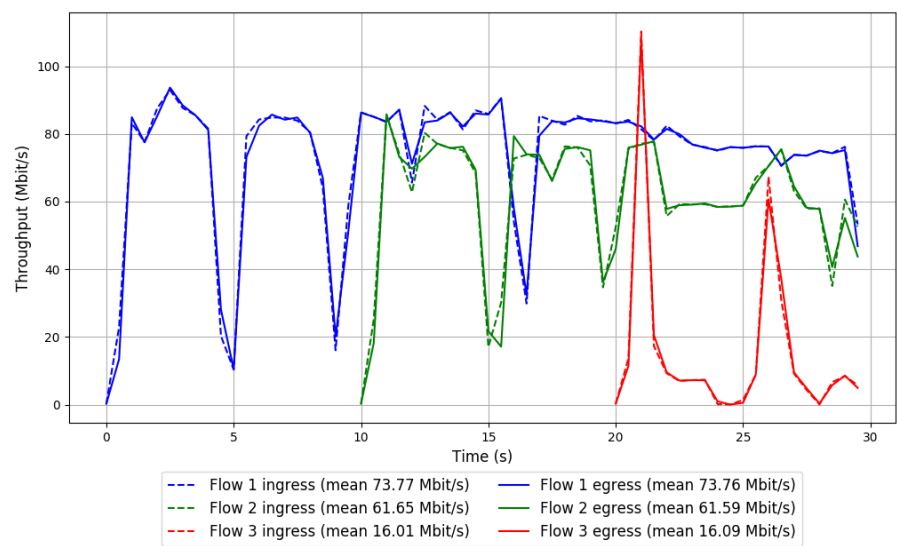
-- Flow 3:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 50.371 ms

Loss rate: 0.51%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-03 01:19:43

End at: 2018-01-03 01:20:13

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 50.675 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 48.33 Mbit/s

95th percentile per-packet one-way delay: 50.676 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 36.22 Mbit/s

95th percentile per-packet one-way delay: 50.685 ms

Loss rate: 0.86%

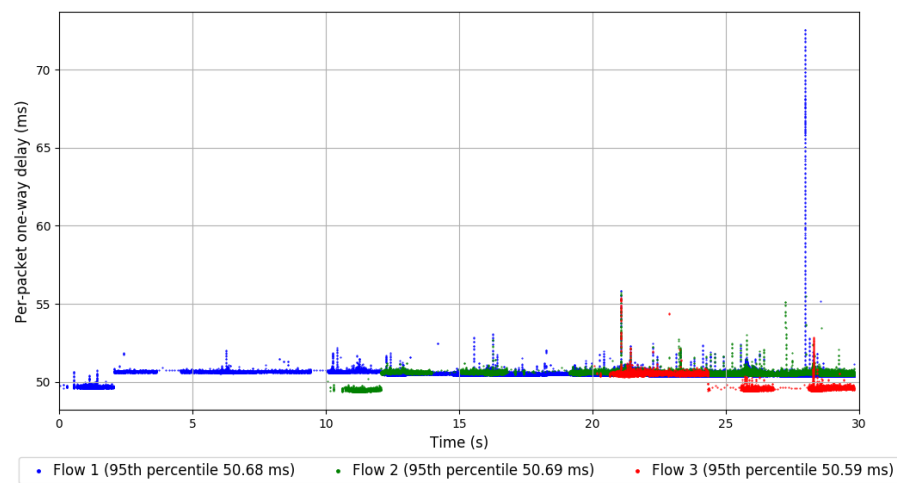
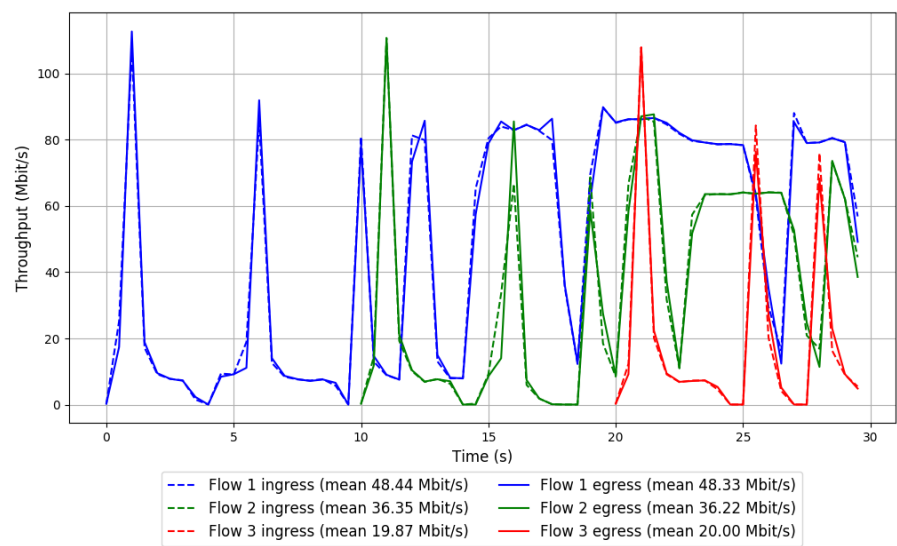
-- Flow 3:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 50.585 ms

Loss rate: 0.37%

Run 10: Report of QUIC Cubic — Data Link

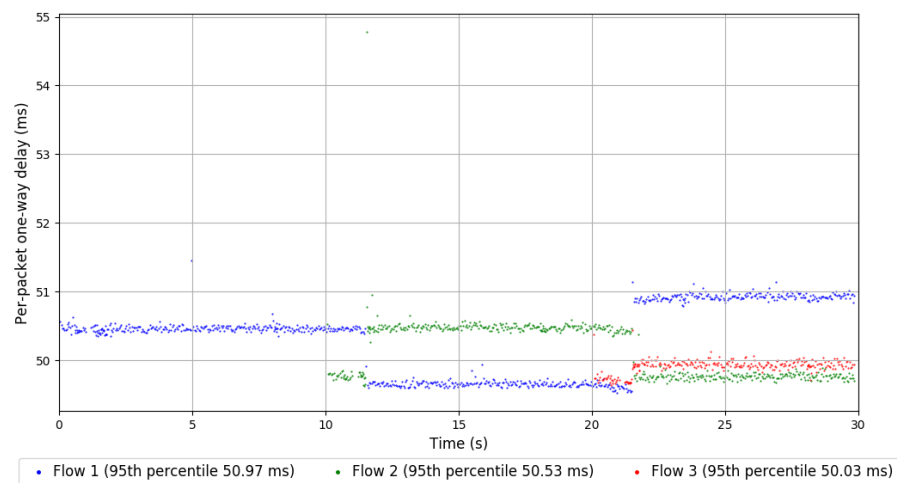
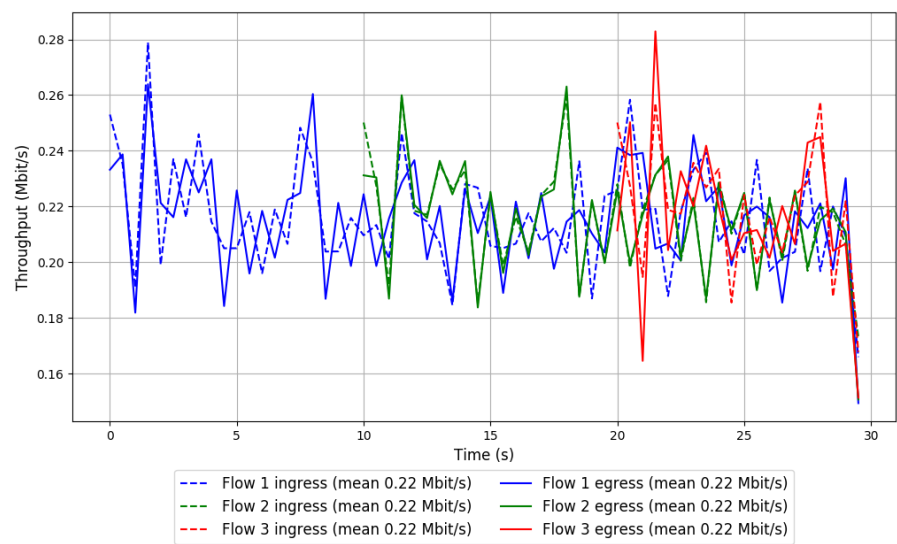


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 23:12:53
End at: 2018-01-02 23:13:23

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.938 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.965 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.526 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.032 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

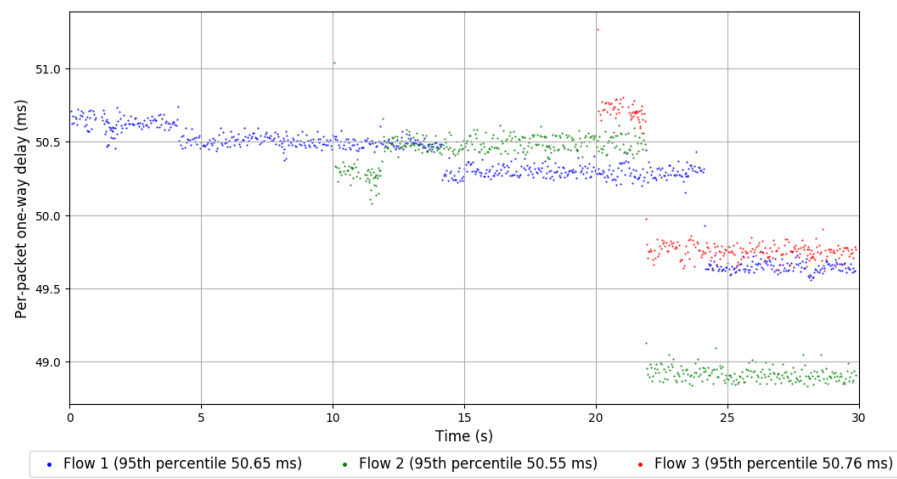
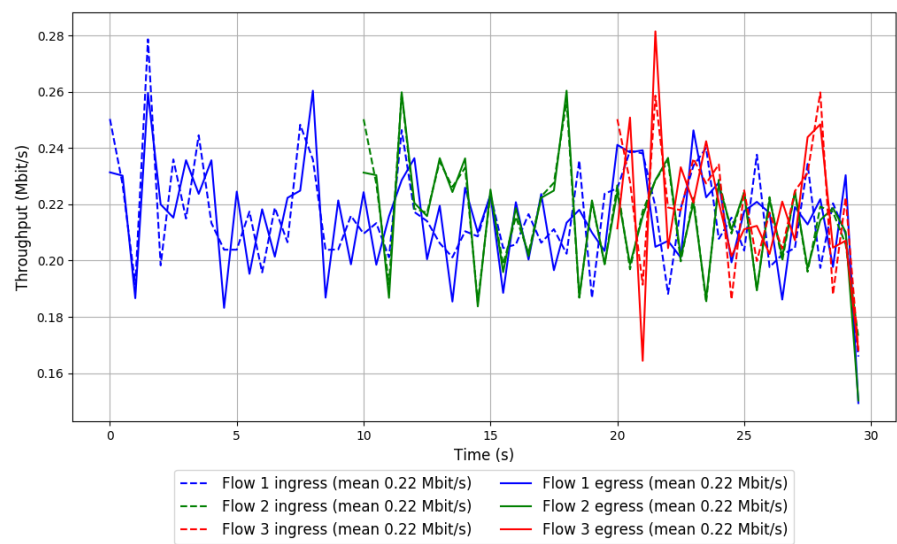


```
Run 2: Statistics of SCReAM

Start at: 2018-01-02 23:27:03
End at: 2018-01-02 23:27:33

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.651 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.551 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.757 ms
Loss rate: 0.74%
```

Run 2: Report of SReAM — Data Link

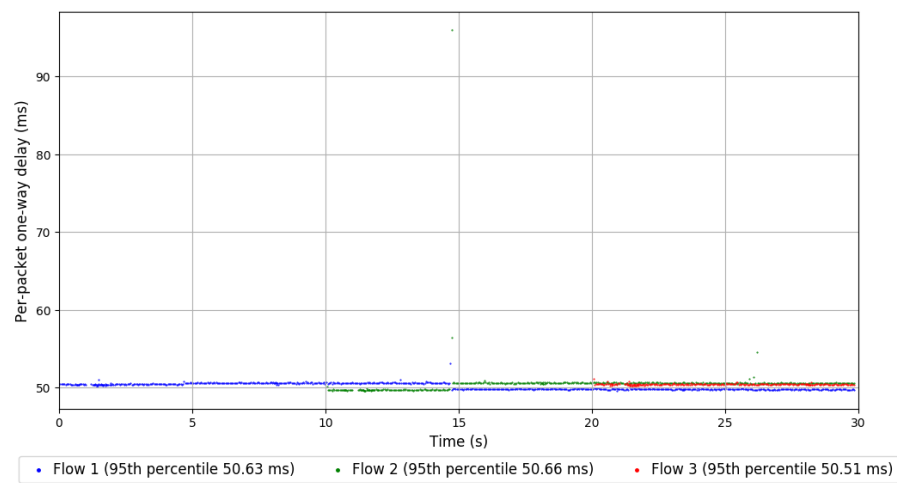
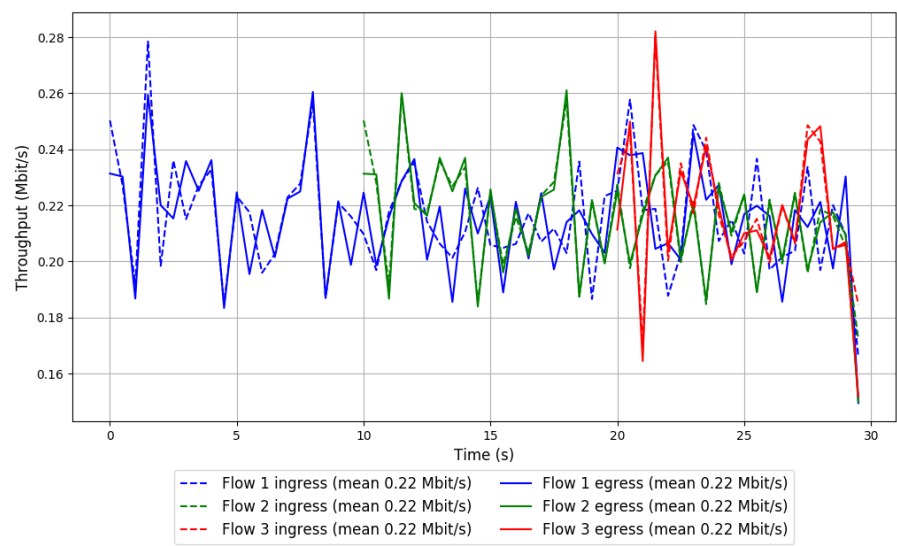


```
Run 3: Statistics of SCReAM

Start at: 2018-01-02 23:41:42
End at: 2018-01-02 23:42:12

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.642 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.656 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.505 ms
Loss rate: 1.11%
```


Run 3: Report of SReAM — Data Link

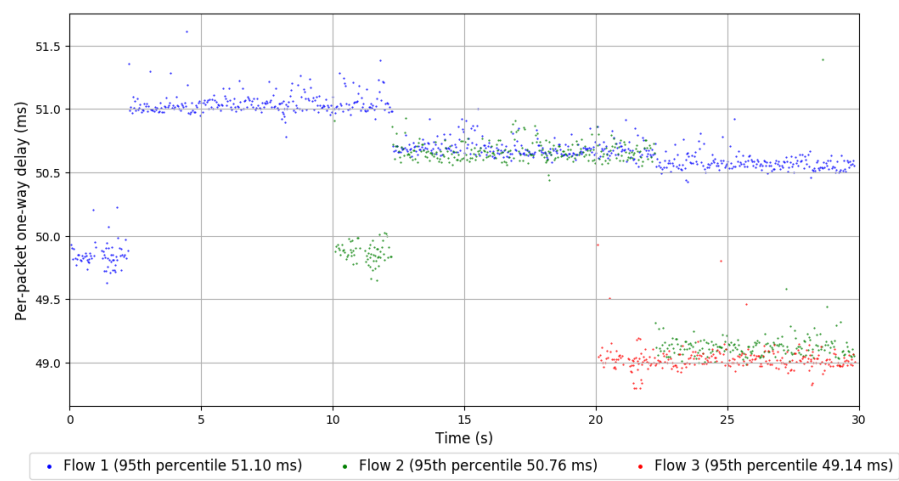
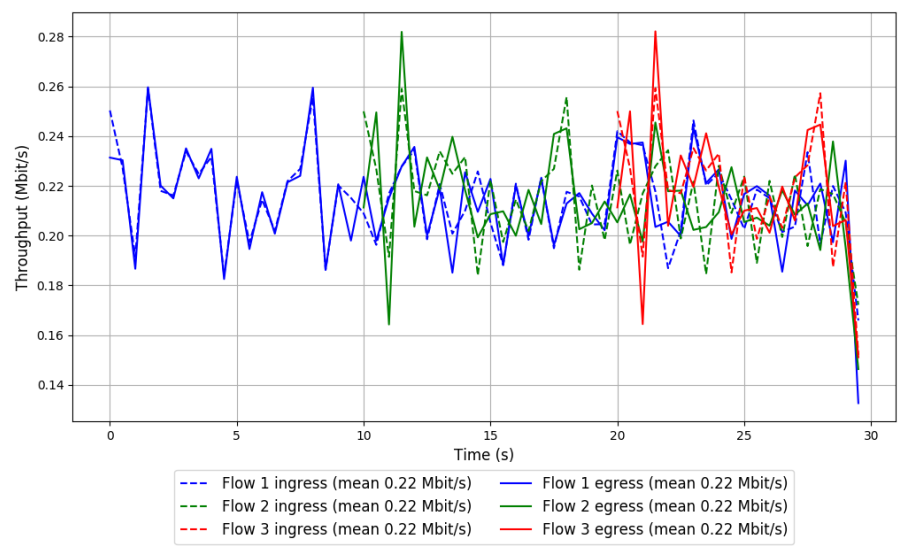


```
Run 4: Statistics of SCReAM

Start at: 2018-01-02 23:55:15
End at: 2018-01-02 23:55:45

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.060 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.099 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.758 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.136 ms
Loss rate: 0.76%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-03 00:08:10

End at: 2018-01-03 00:08:40

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.117 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.63%

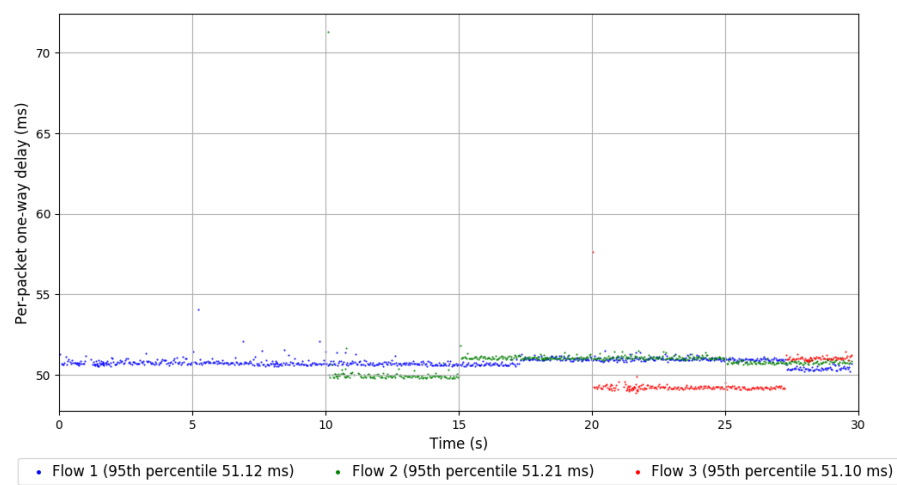
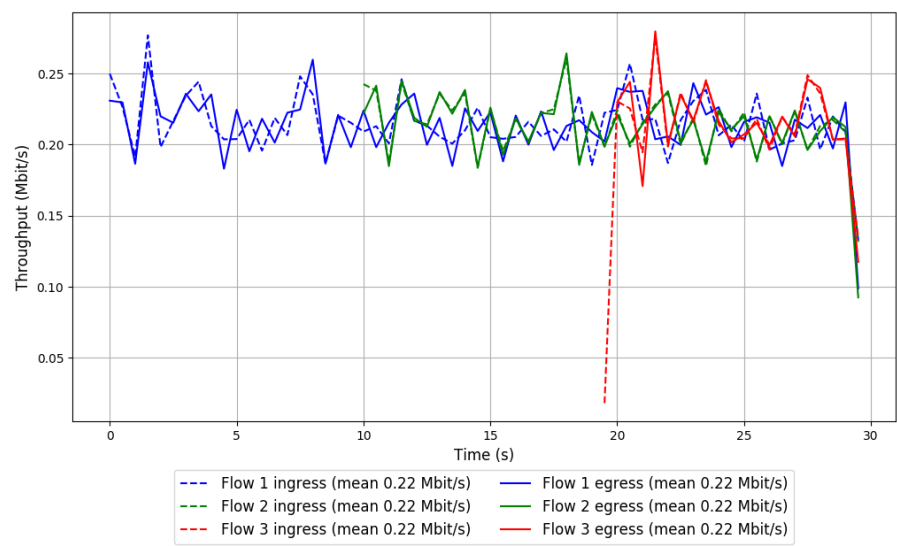
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.098 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link

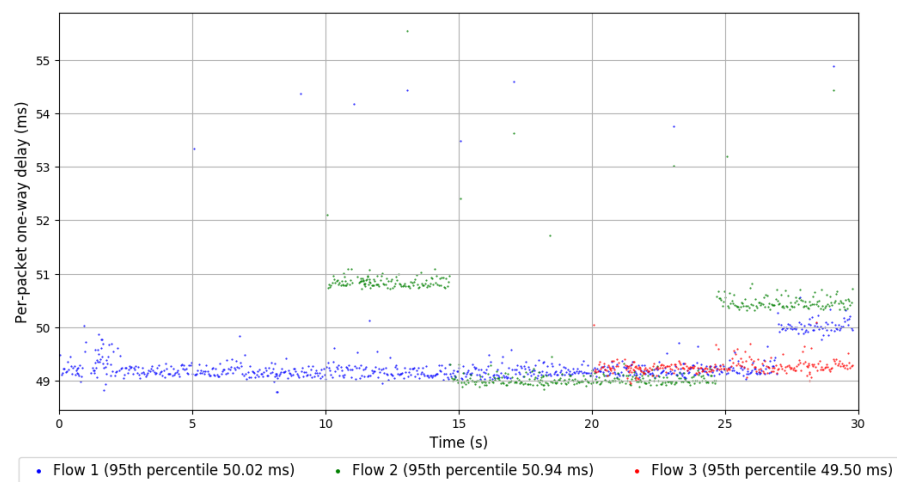
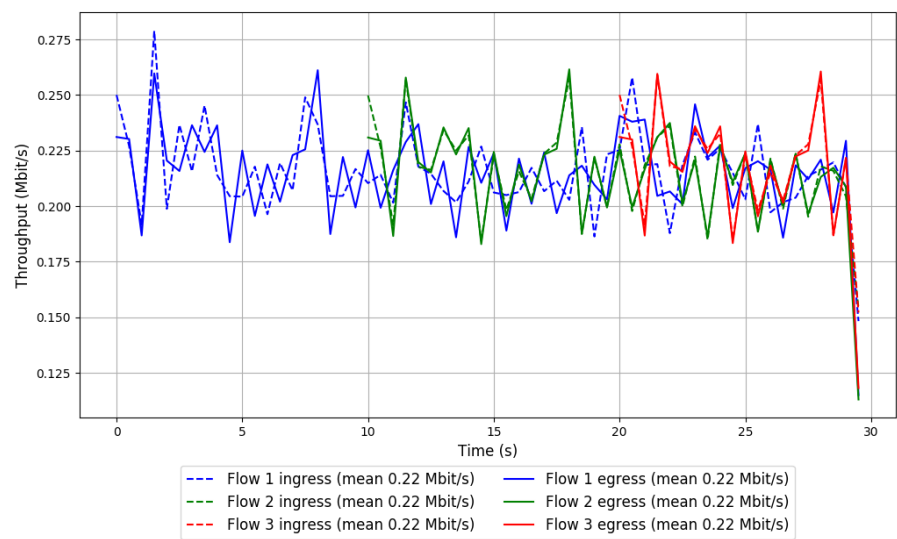


```
Run 6: Statistics of SReAM

Start at: 2018-01-03 00:20:50
End at: 2018-01-03 00:21:20

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.826 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.023 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.939 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.498 ms
Loss rate: 1.16%
```

Run 6: Report of SReAM — Data Link

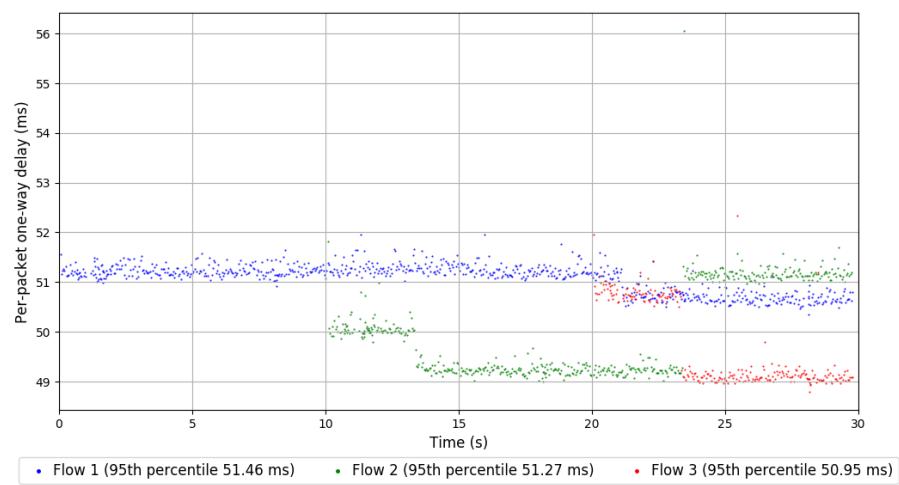
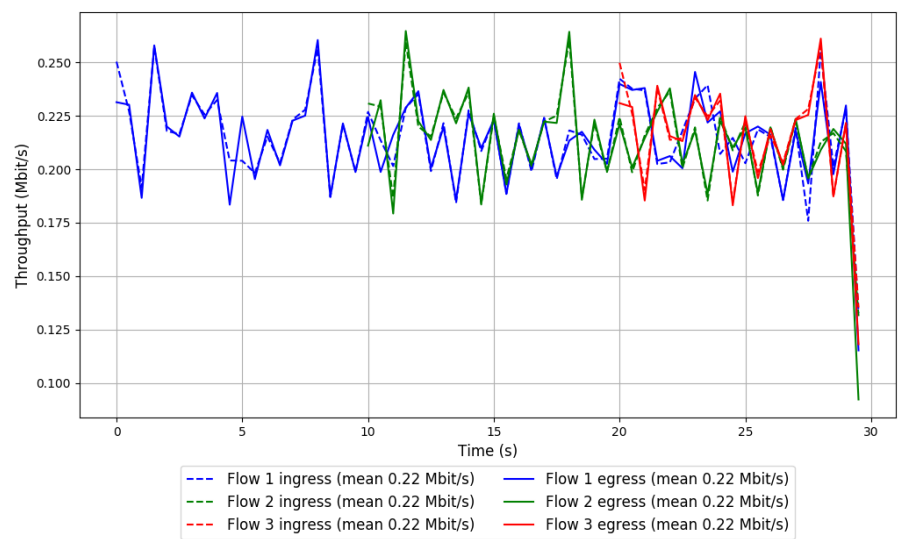


```
Run 7: Statistics of SCReAM

Start at: 2018-01-03 00:33:24
End at: 2018-01-03 00:33:54

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.403 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.463 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.273 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.78%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-03 00:47:01

End at: 2018-01-03 00:47:31

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.831 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.866 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.458 ms

Loss rate: 0.43%

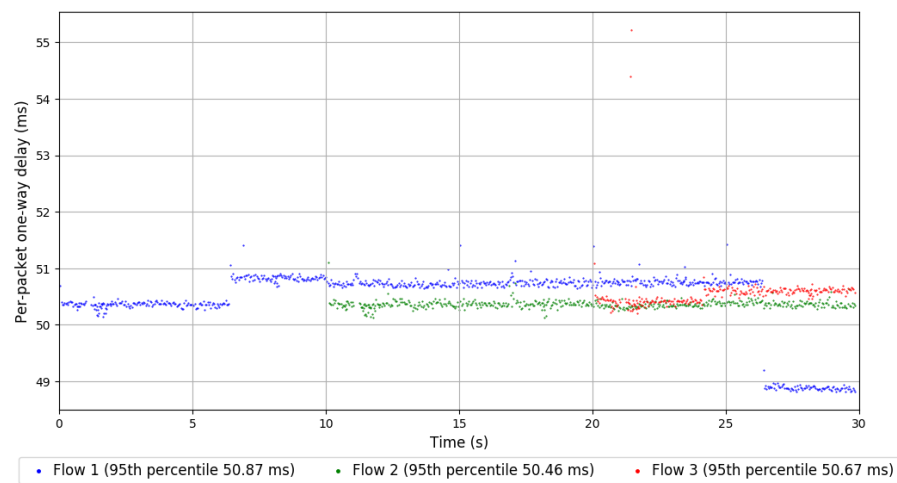
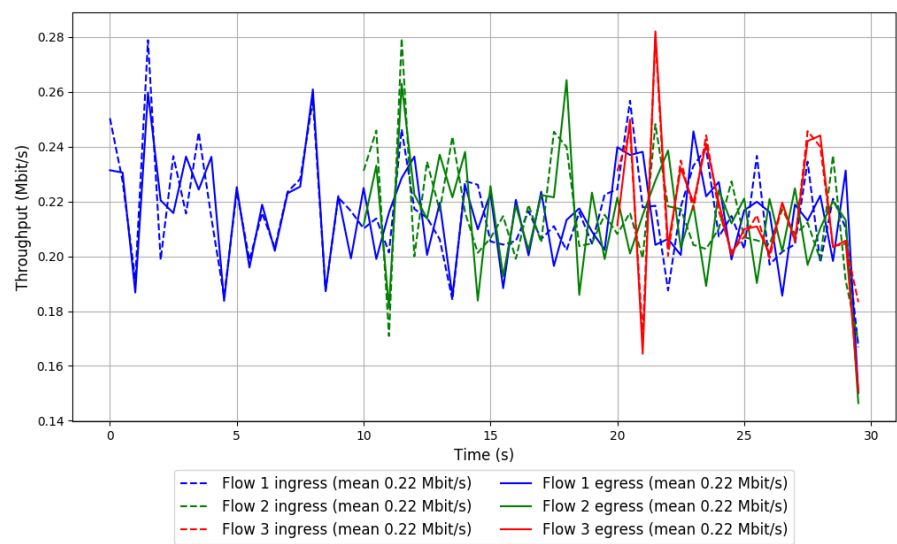
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 1.11%

Run 8: Report of SReAM — Data Link

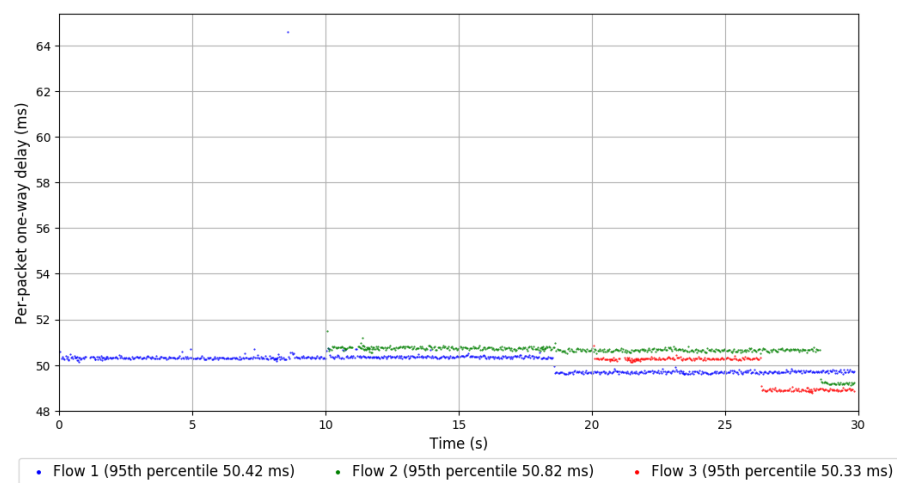
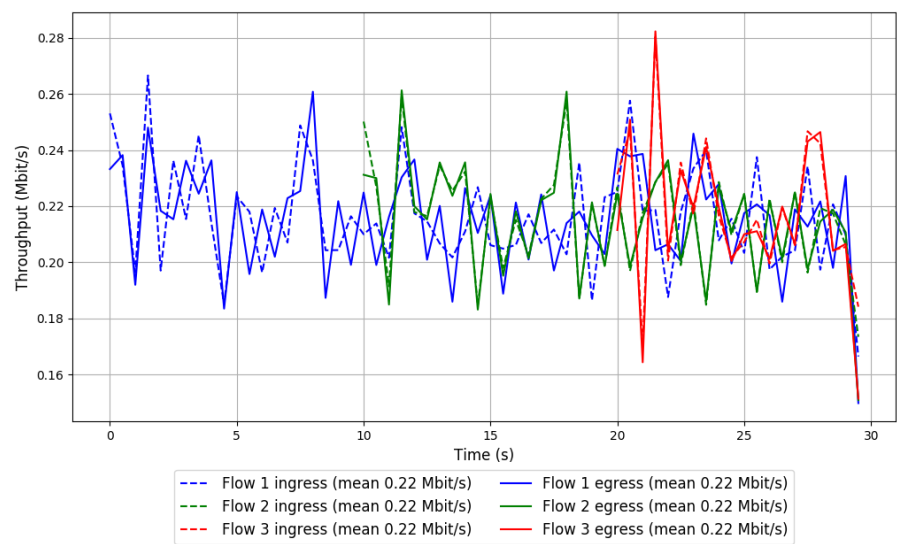


```
Run 9: Statistics of SCReAM

Start at: 2018-01-03 01:01:29
End at: 2018-01-03 01:01:59

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.787 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.418 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.818 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.330 ms
Loss rate: 1.11%
```

Run 9: Report of SReAM — Data Link

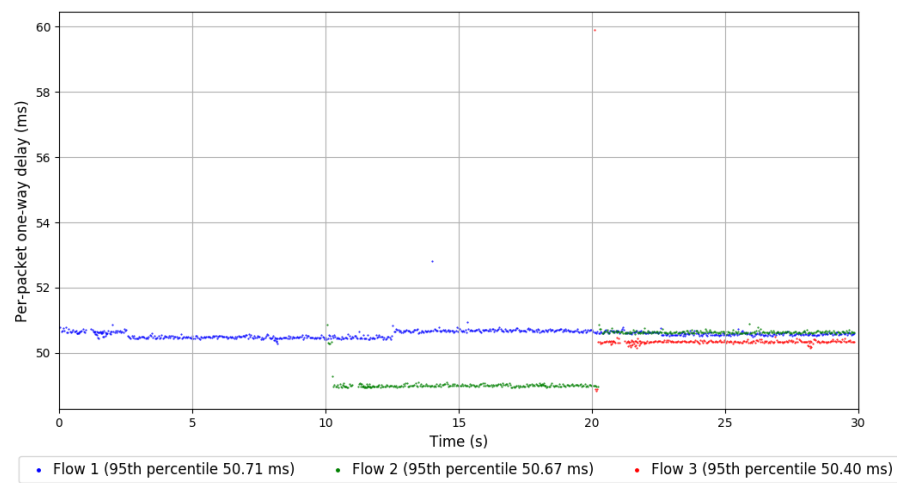
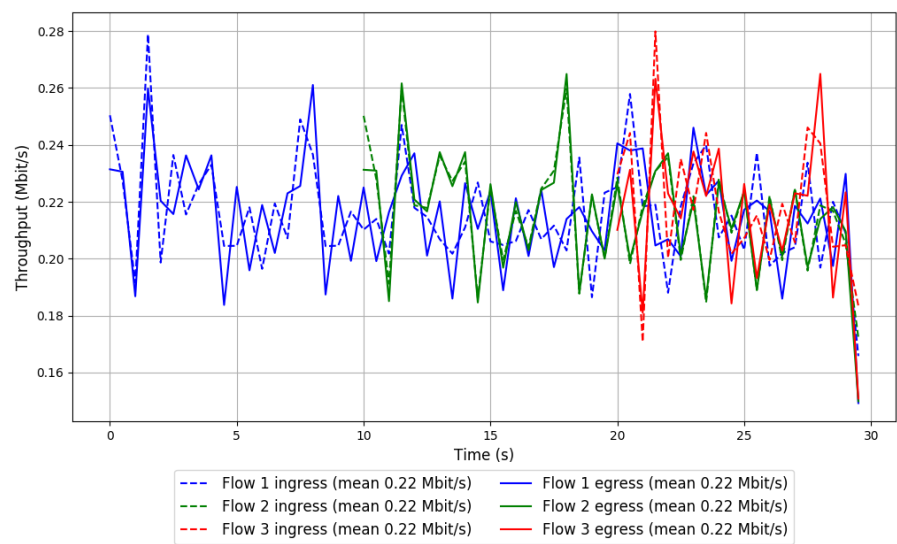


```
Run 10: Statistics of SCReAM

Start at: 2018-01-03 01:15:45
End at: 2018-01-03 01:16:15

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.713 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.671 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.400 ms
Loss rate: 1.11%
```

Run 10: Report of SReAM — Data Link

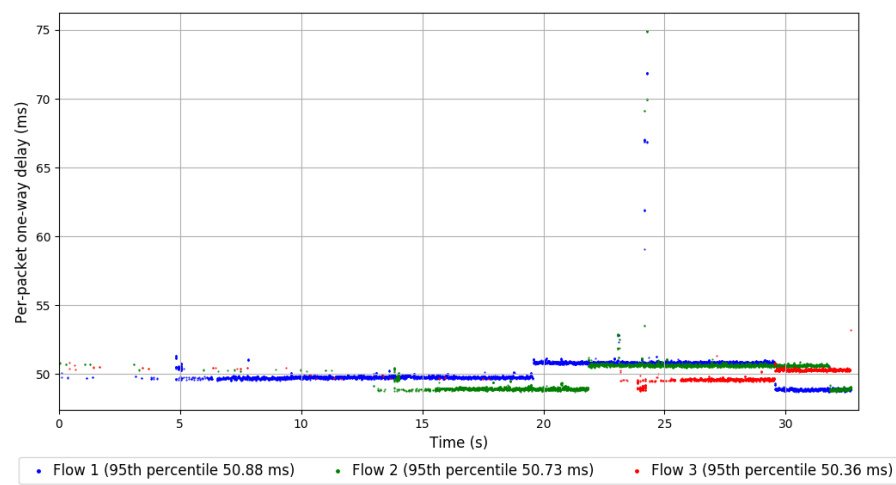
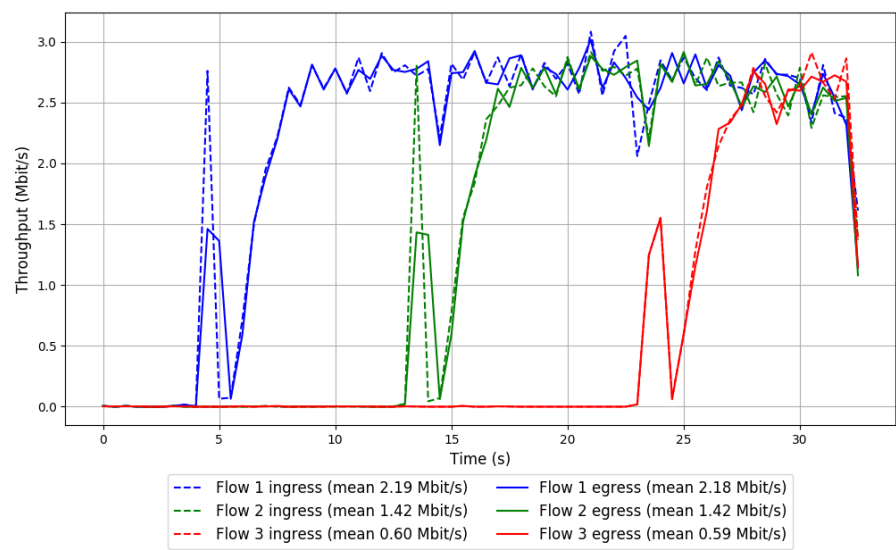


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 23:16:08
End at: 2018-01-02 23:16:38

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 50.882 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.726 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 50.361 ms
Loss rate: 1.69%
```


Run 1: Report of WebRTC media — Data Link

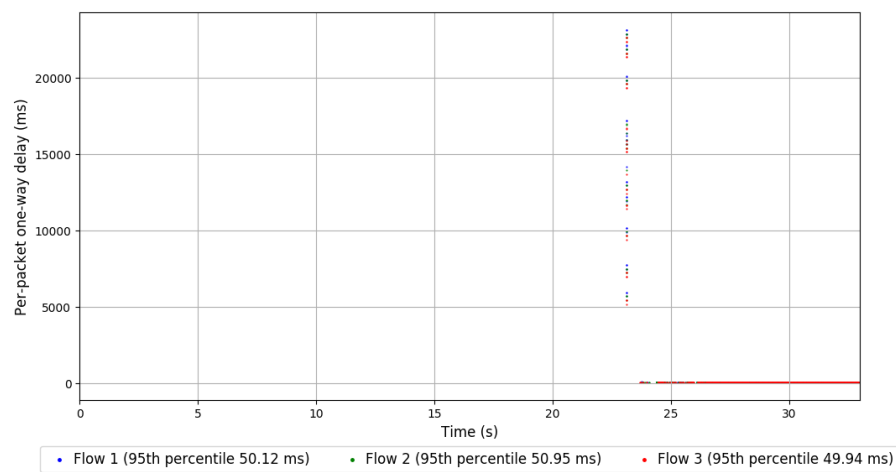
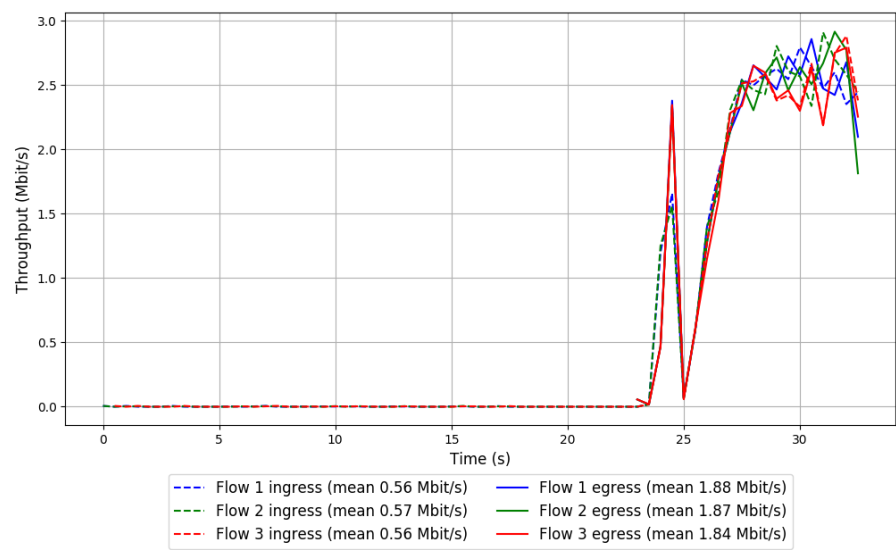


Run 2: Statistics of WebRTC media

Start at: 2018-01-02 23:30:24

End at: 2018-01-02 23:30:54

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 23:44:52

End at: 2018-01-02 23:45:22

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.076 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.702 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.00%

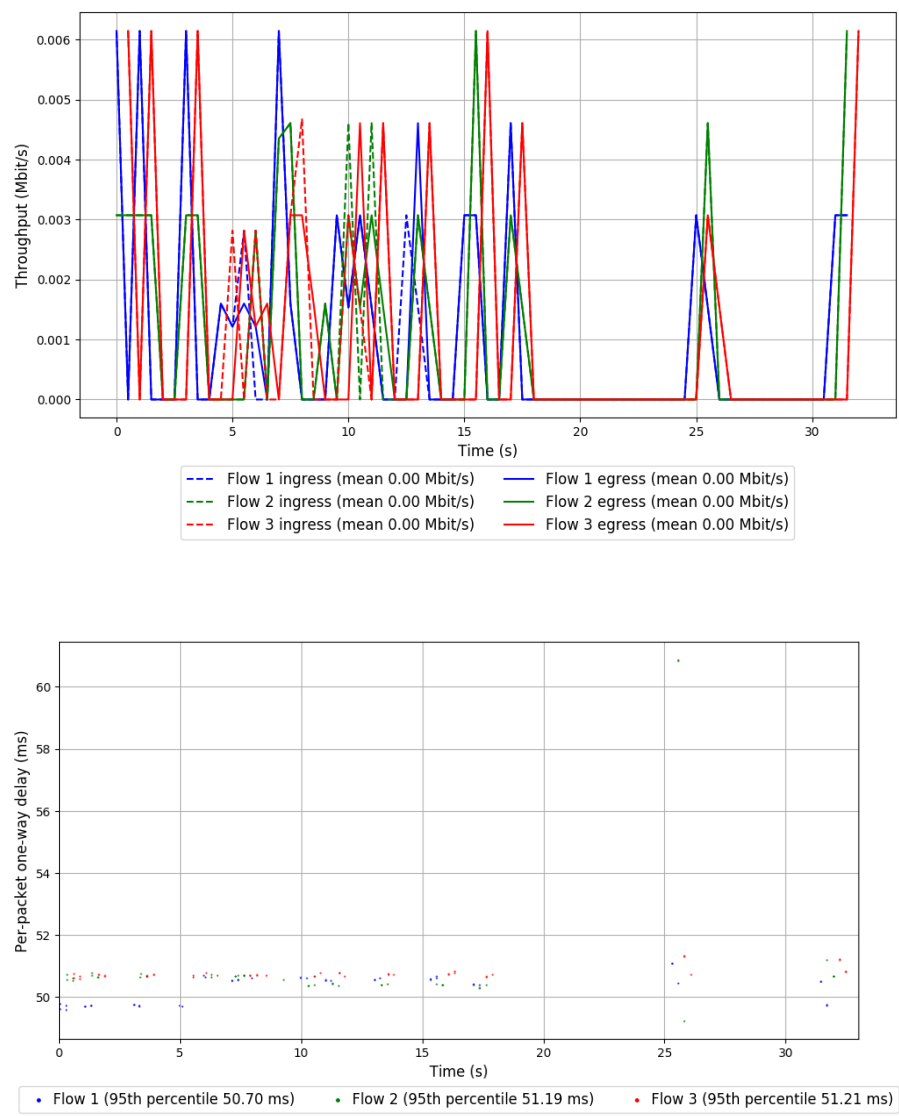
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 23:58:19

End at: 2018-01-02 23:58:49

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 50.838 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.862 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.49%

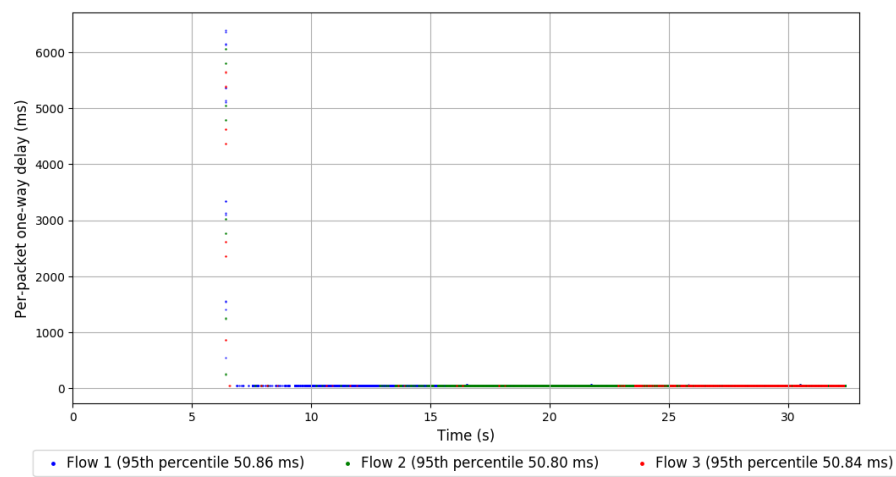
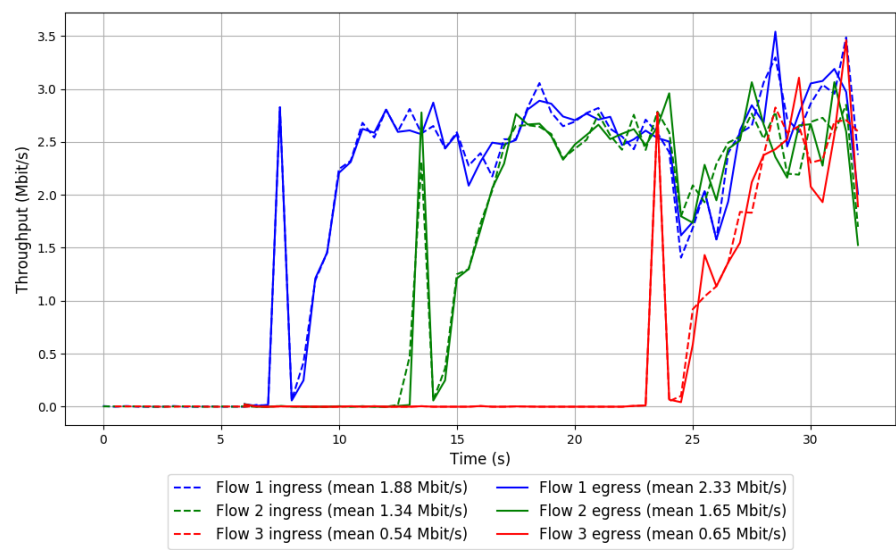
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 2.07%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-03 00:11:02

End at: 2018-01-03 00:11:32

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 1.00%

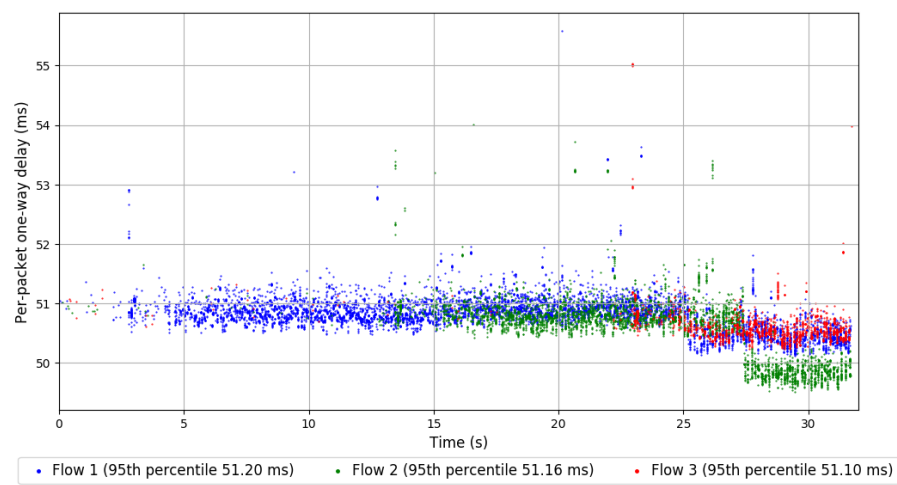
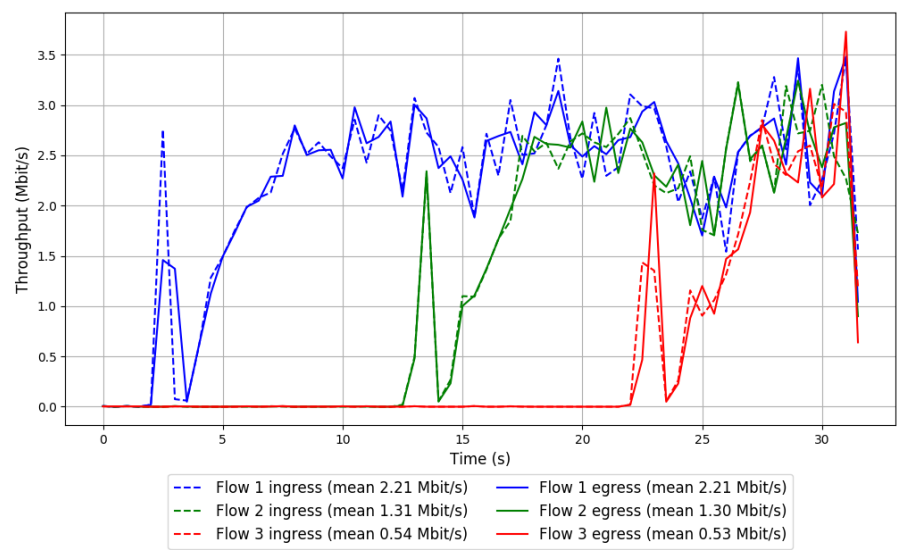
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 1.94%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-03 00:23:47

End at: 2018-01-03 00:24:17

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 50.076 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 49.991 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 50.136 ms

Loss rate: 0.52%

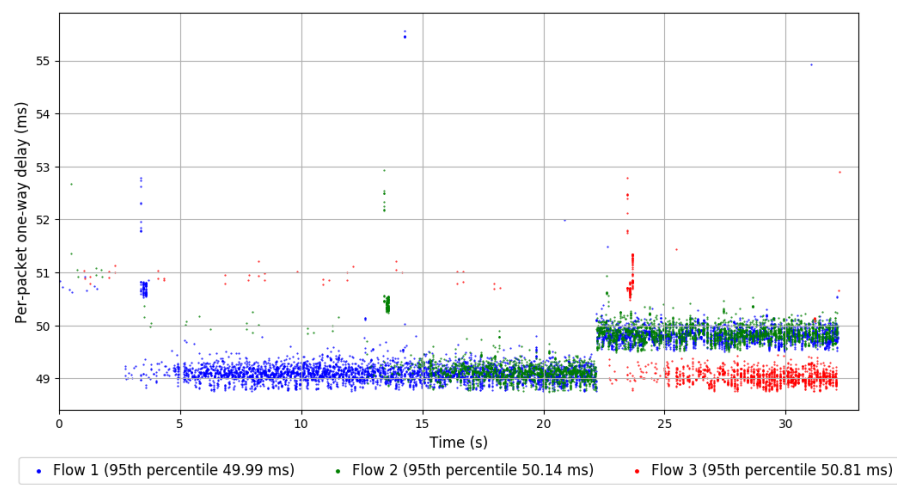
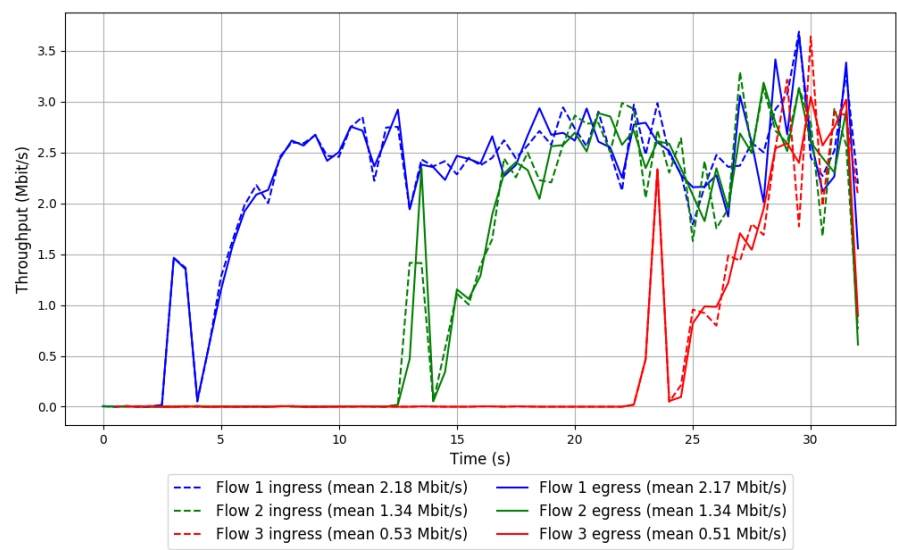
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 3.58%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-03 00:36:24

End at: 2018-01-03 00:36:54

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 51.112 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 51.130 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 49.696 ms

Loss rate: 0.46%

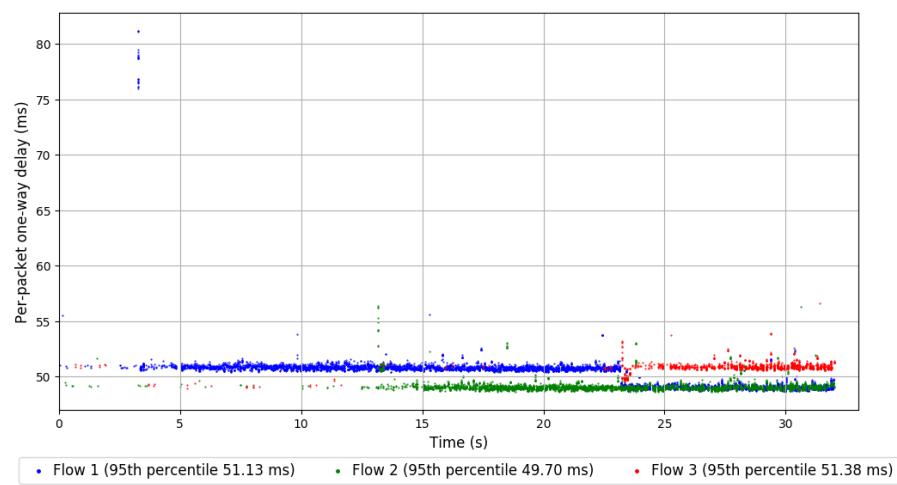
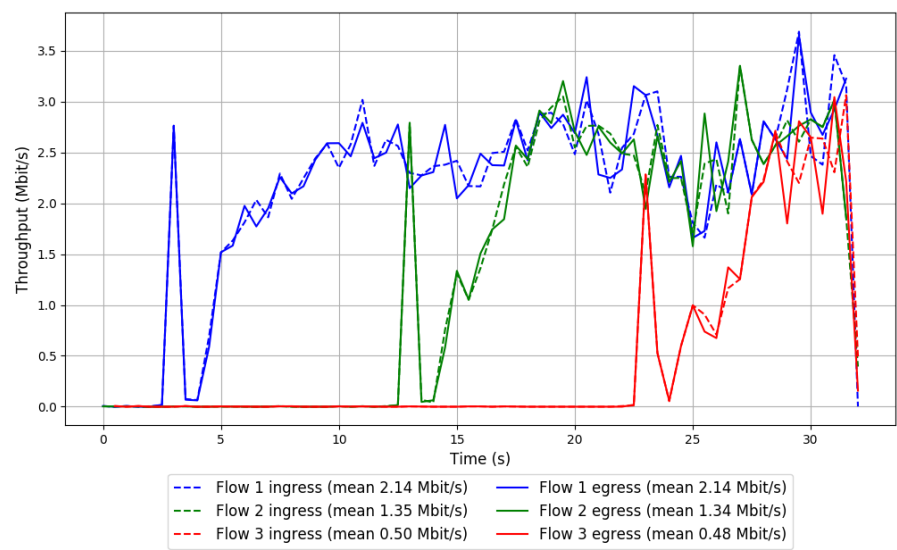
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 51.384 ms

Loss rate: 3.78%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-03 00:50:16

End at: 2018-01-03 00:50:46

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.599 ms

Loss rate: 0.66%

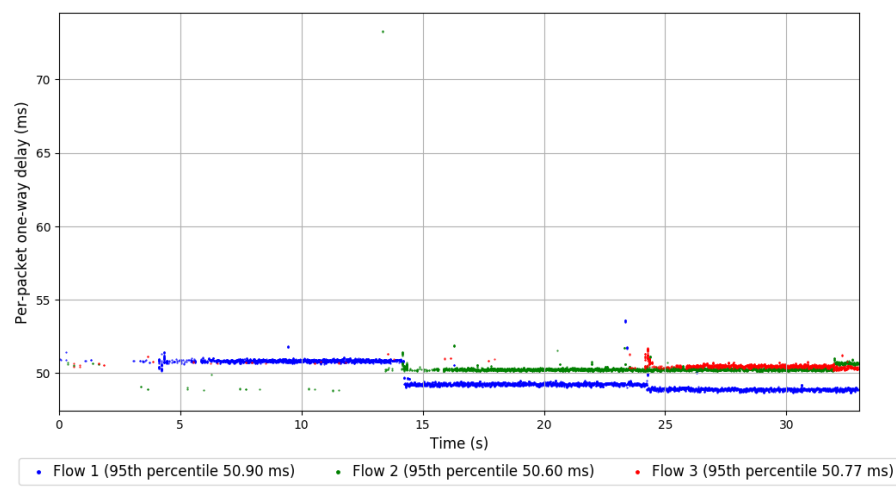
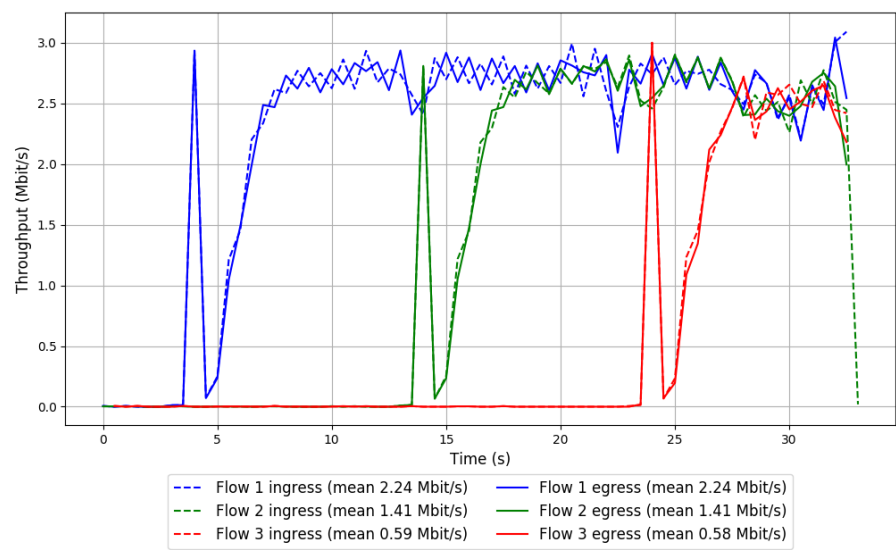
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 1.43%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-03 01:04:43

End at: 2018-01-03 01:05:13

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 50.651 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.420 ms

Loss rate: 0.60%

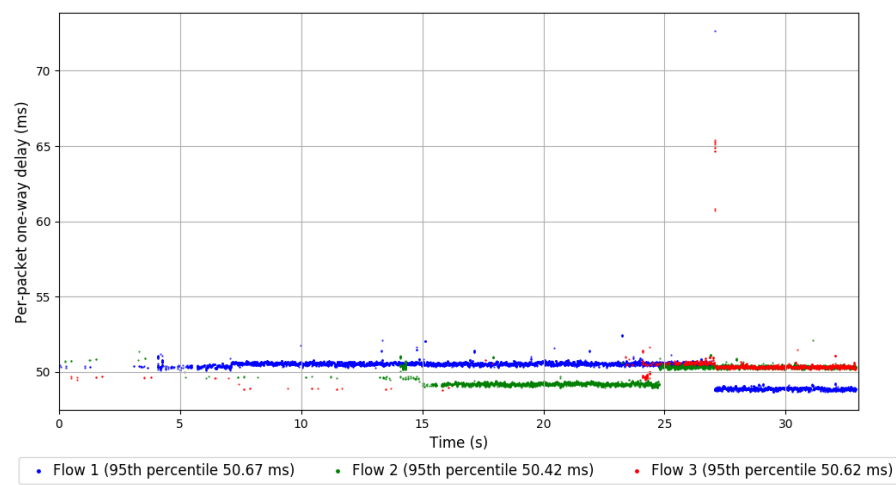
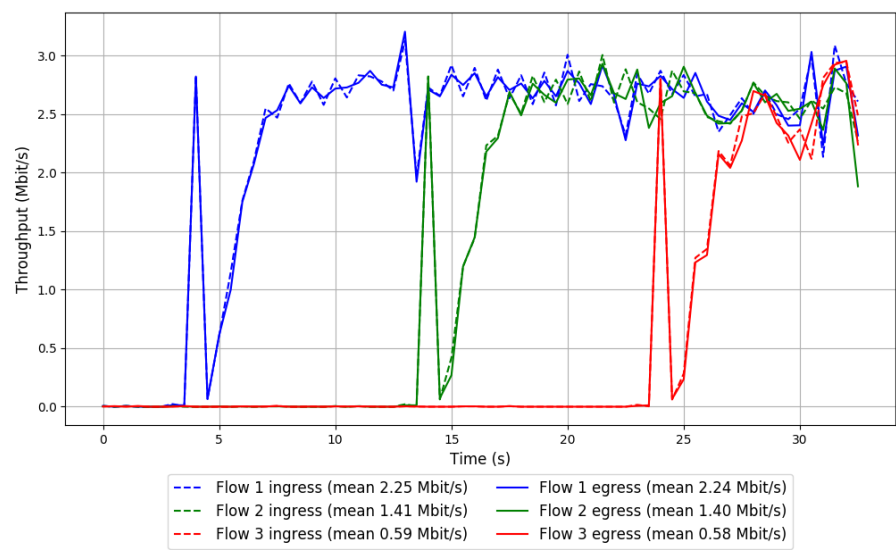
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.623 ms

Loss rate: 1.31%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-03 01:19:03

End at: 2018-01-03 01:19:33

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 50.450 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.475 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.274 ms

Loss rate: 0.68%

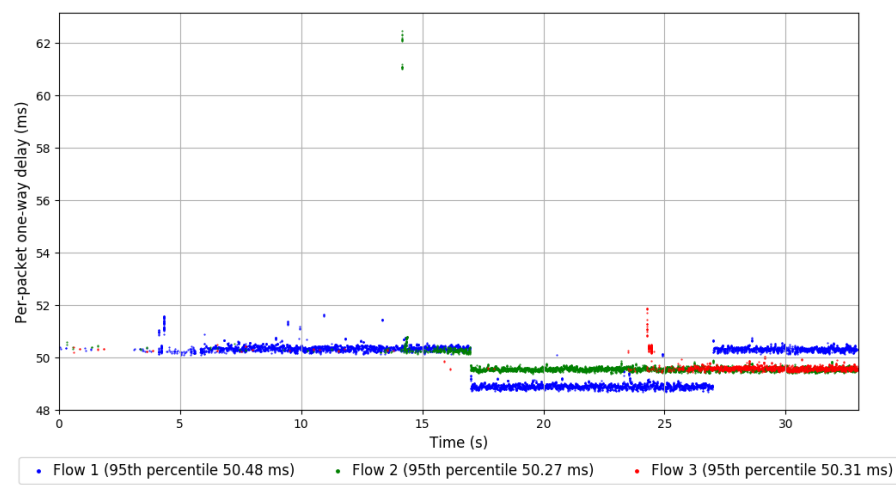
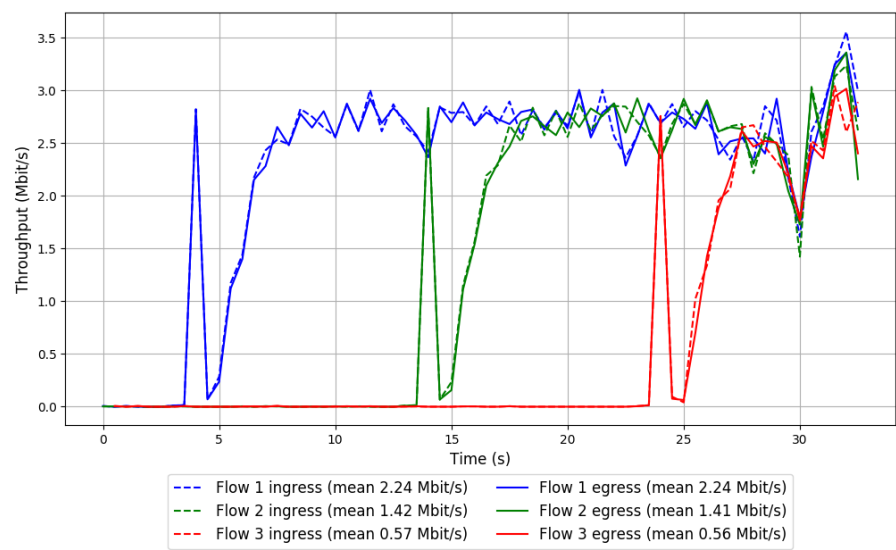
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.311 ms

Loss rate: 1.32%

Run 10: Report of WebRTC media — Data Link

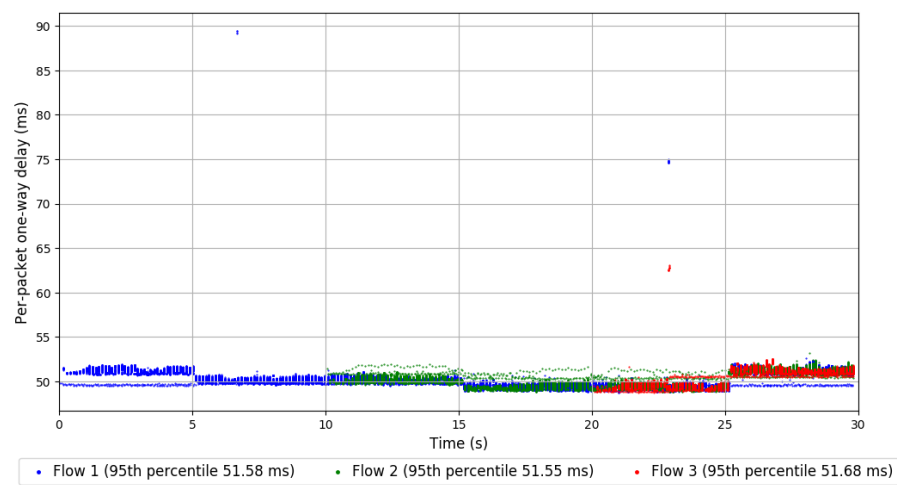
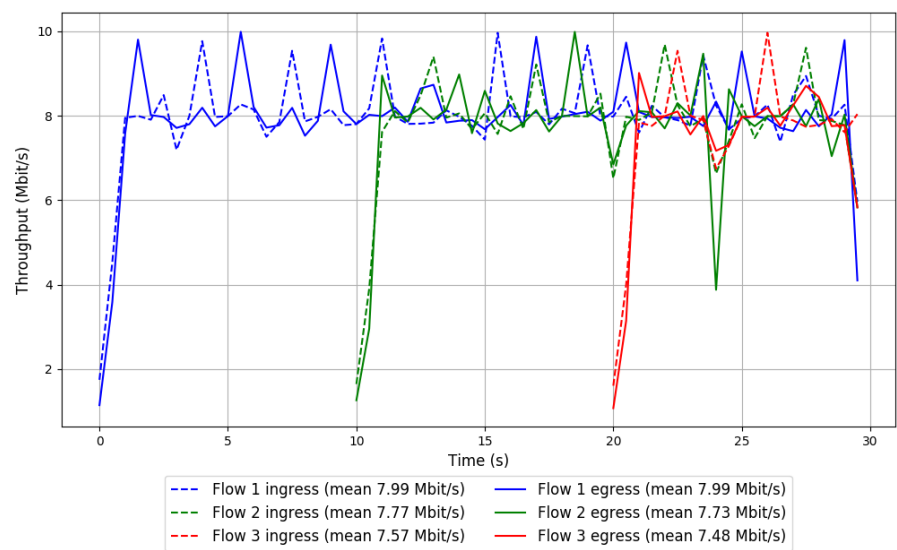


```
Run 1: Statistics of Sprout

Start at: 2018-01-02 23:14:22
End at: 2018-01-02 23:14:52

# Below is generated by plot.py at 2018-01-03 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 51.586 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.577 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 51.548 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 51.680 ms
Loss rate: 2.38%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 23:28:36

End at: 2018-01-02 23:29:06

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 51.234 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.362 ms

Loss rate: 1.76%

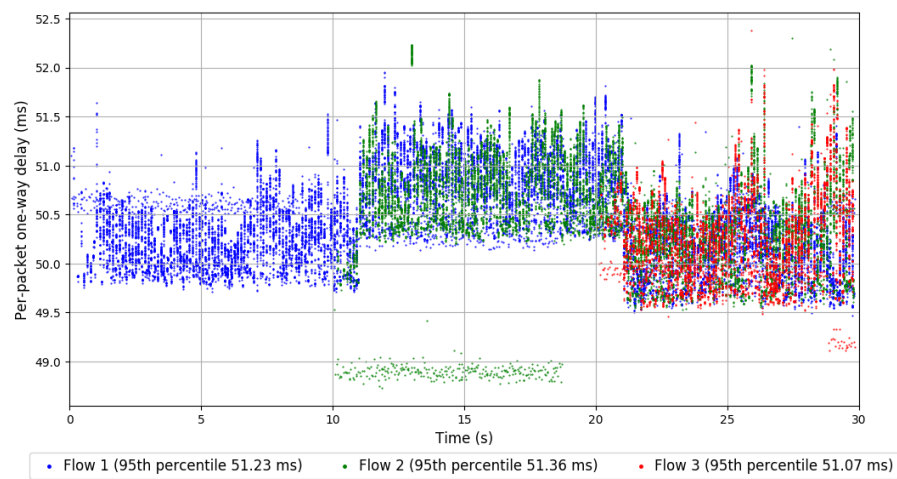
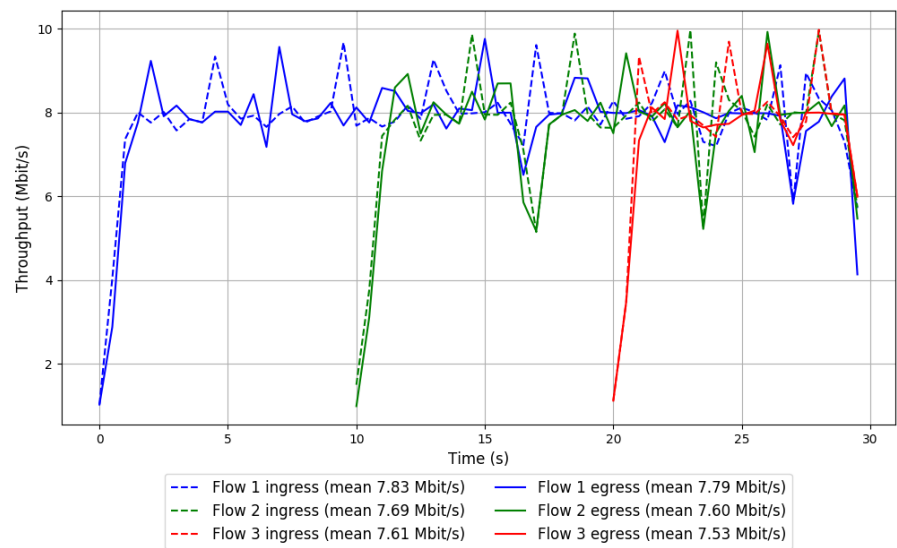
-- Flow 3:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 1.75%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 23:43:06

End at: 2018-01-02 23:43:36

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 51.079 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.185 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 50.887 ms

Loss rate: 2.68%

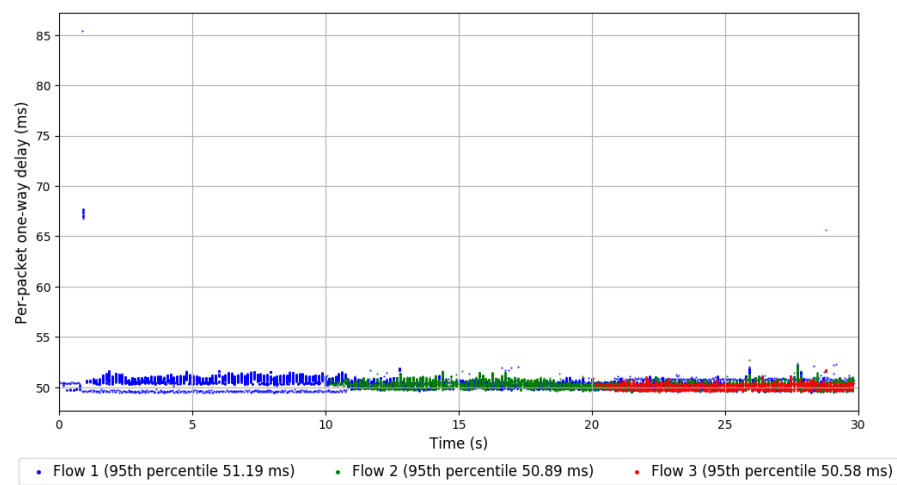
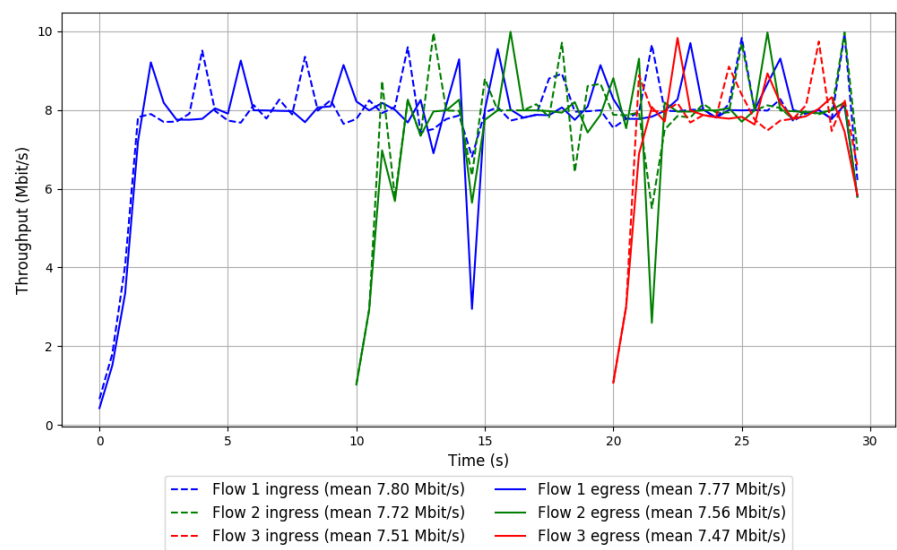
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 2.01%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 23:56:42

End at: 2018-01-02 23:57:12

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.22 Mbit/s

95th percentile per-packet one-way delay: 51.215 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 51.281 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 51.182 ms

Loss rate: 1.26%

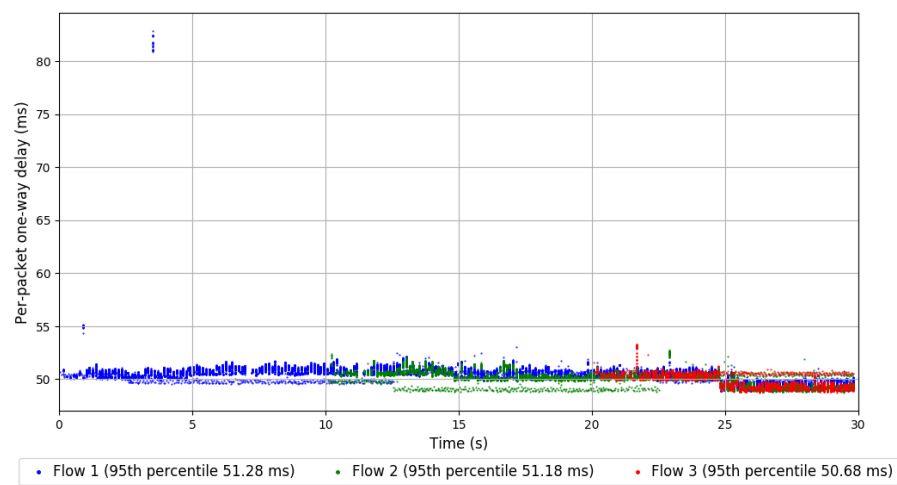
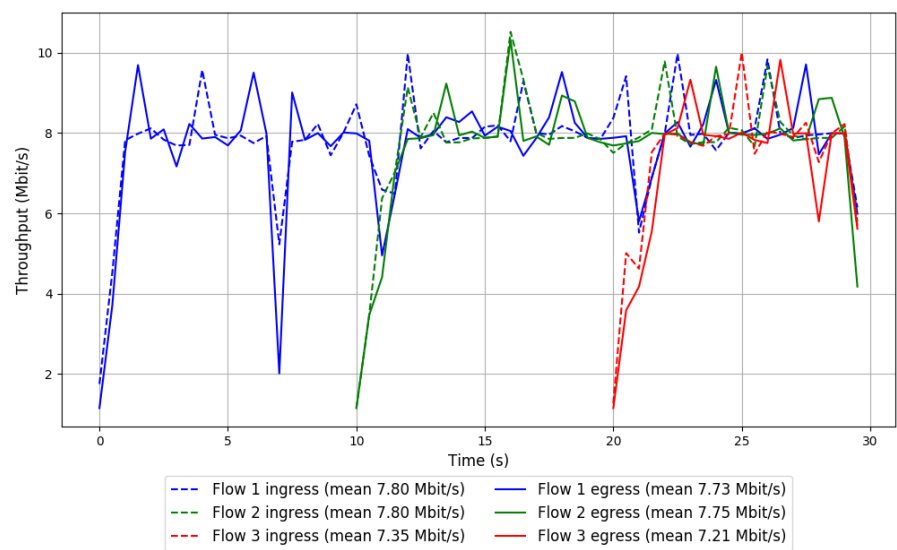
-- Flow 3:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 50.681 ms

Loss rate: 2.89%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-03 00:09:36

End at: 2018-01-03 00:10:06

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 51.311 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.187 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 51.282 ms

Loss rate: 1.66%

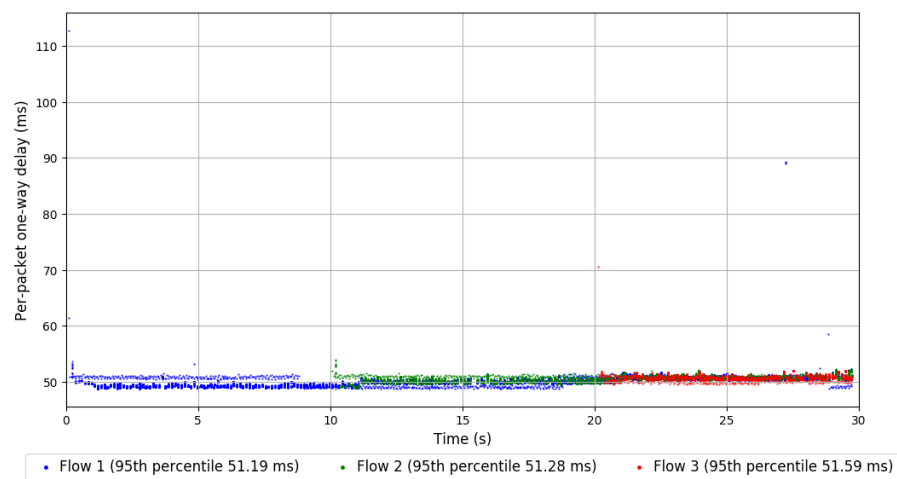
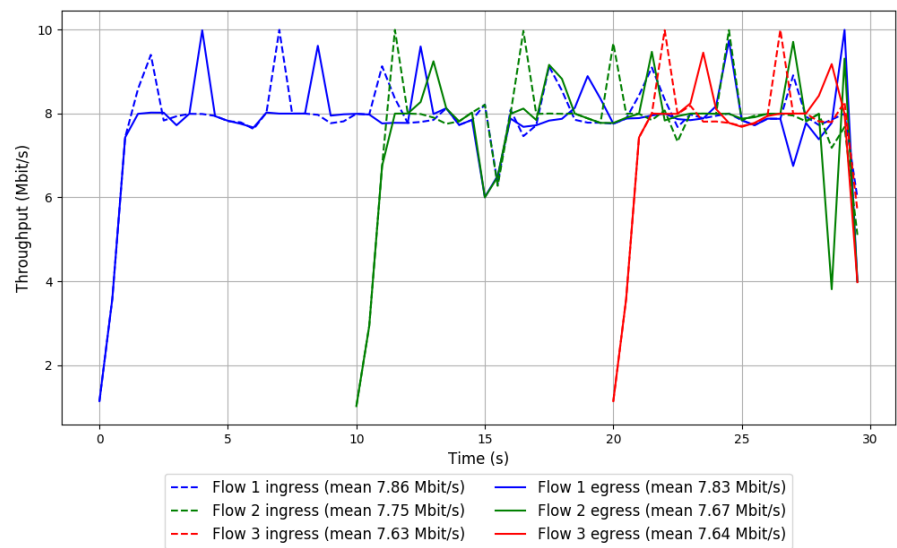
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 51.587 ms

Loss rate: 1.34%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-03 00:22:17

End at: 2018-01-03 00:22:47

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 50.210 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 50.286 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 50.078 ms

Loss rate: 0.63%

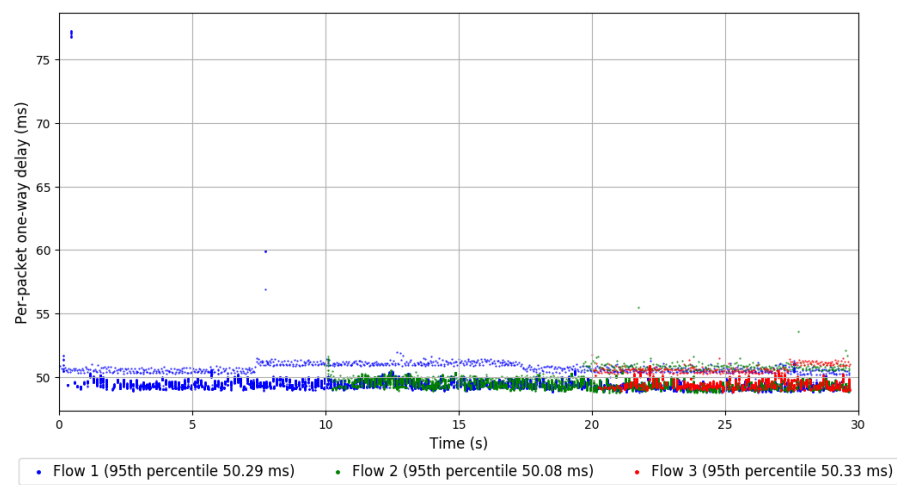
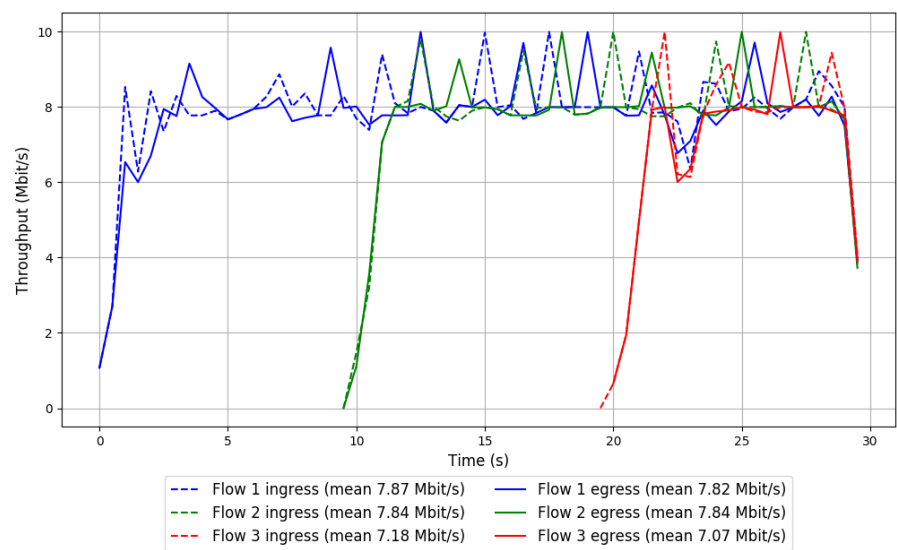
-- Flow 3:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 50.326 ms

Loss rate: 2.80%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-03 00:34:53

End at: 2018-01-03 00:35:23

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 51.521 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 51.469 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 51.611 ms

Loss rate: 1.33%

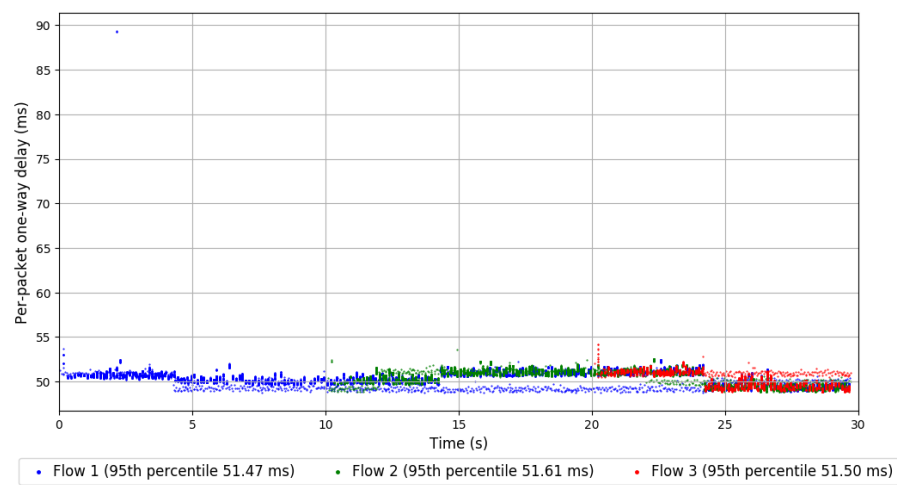
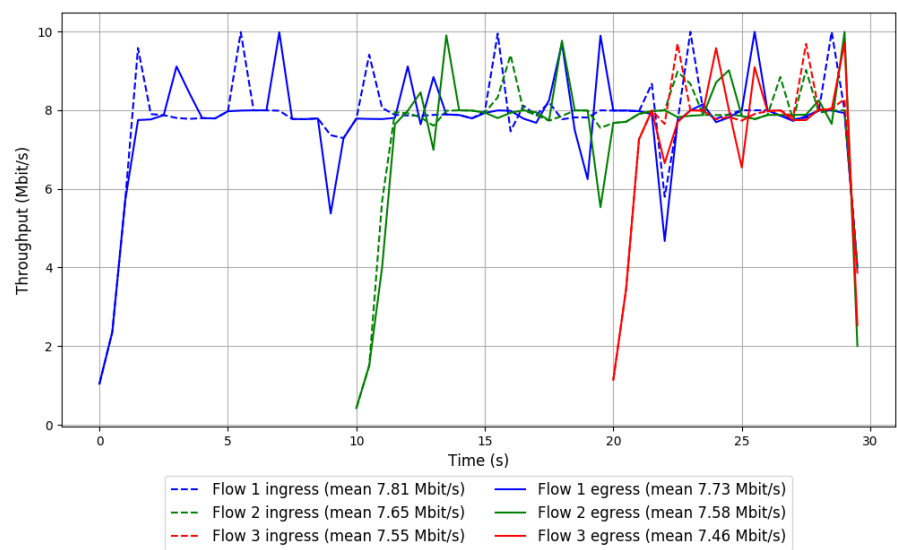
-- Flow 3:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 51.502 ms

Loss rate: 1.98%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-03 00:48:32

End at: 2018-01-03 00:49:02

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 50.618 ms

Loss rate: 0.69%

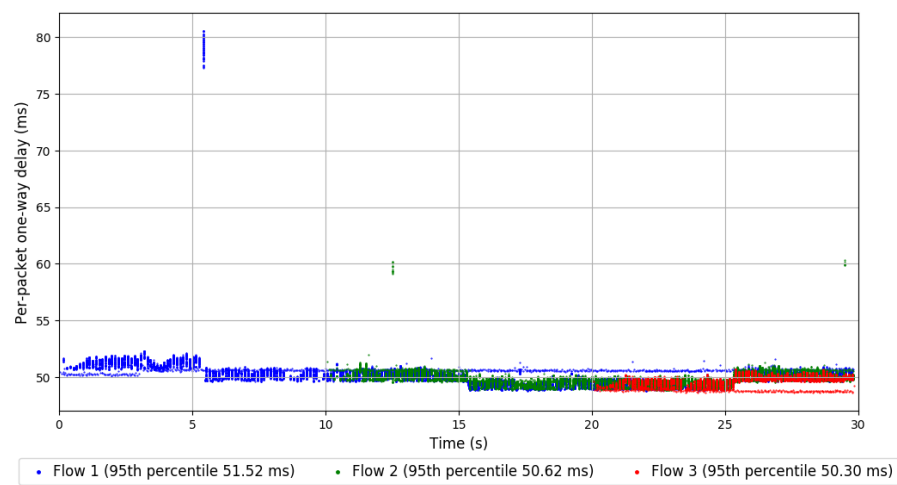
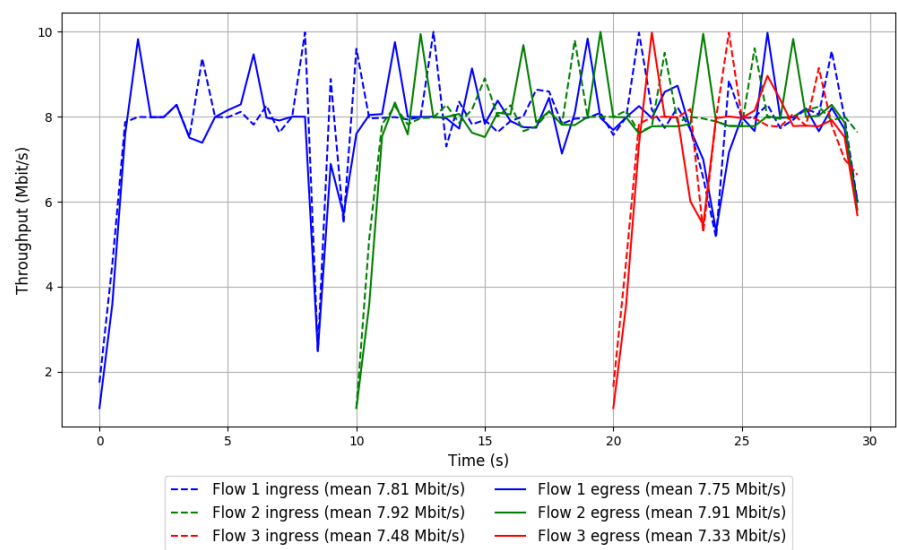
-- Flow 3:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 50.295 ms

Loss rate: 2.69%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-03 01:02:57

End at: 2018-01-03 01:03:27

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 51.256 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.353 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.167 ms

Loss rate: 0.59%

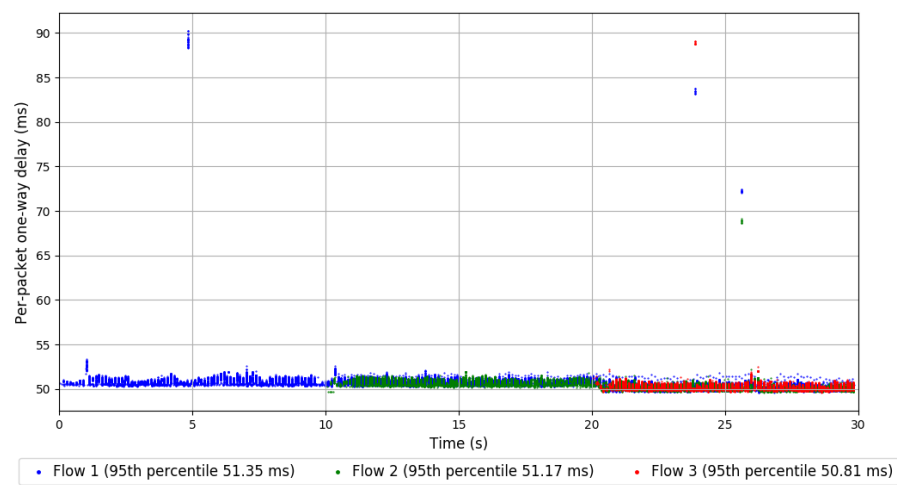
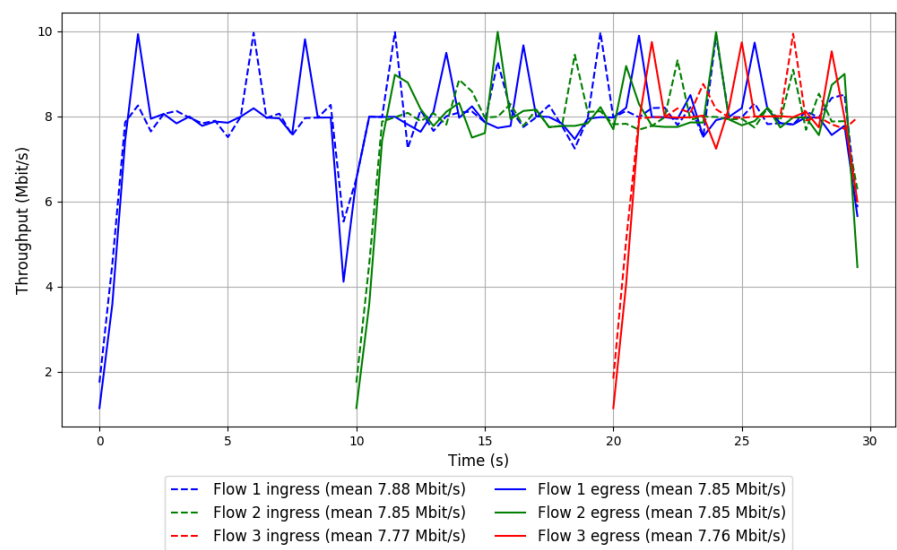
-- Flow 3:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 50.814 ms

Loss rate: 1.30%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-03 01:17:17

End at: 2018-01-03 01:17:47

Below is generated by plot.py at 2018-01-03 04:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 51.313 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.286 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 51.281 ms

Loss rate: 1.12%

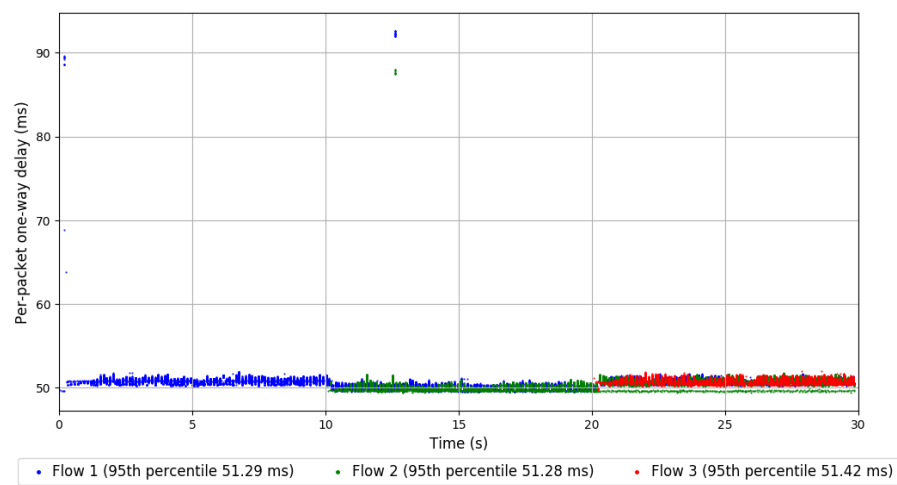
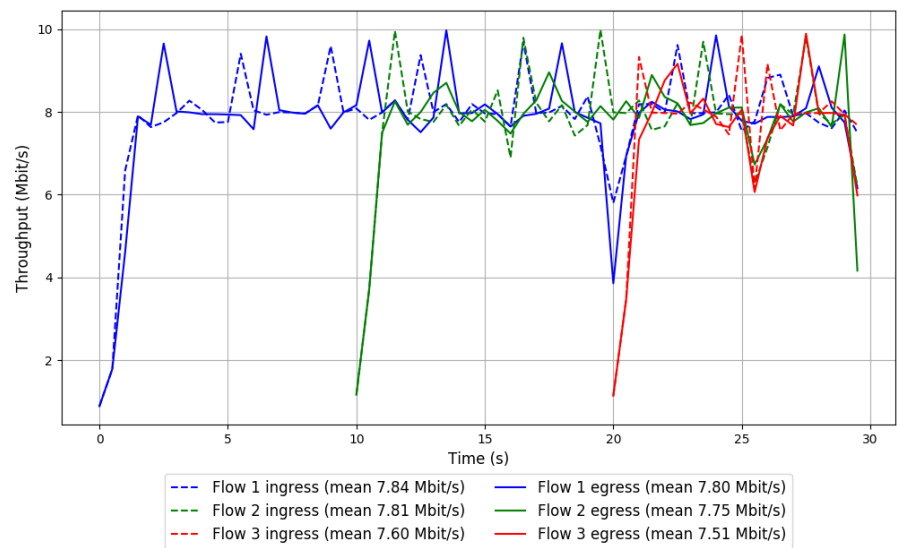
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 51.423 ms

Loss rate: 2.46%

Run 10: Report of Sprout — Data Link

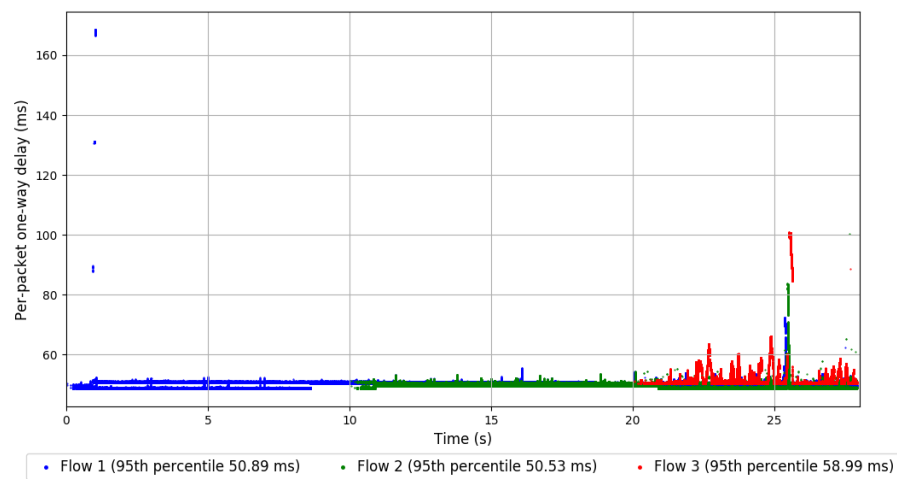
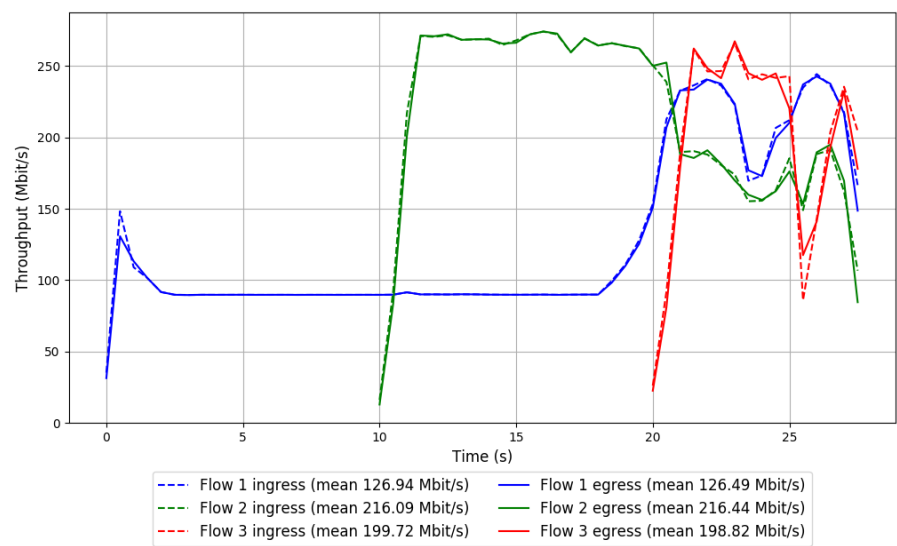


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 23:11:44
End at: 2018-01-02 23:12:14

# Below is generated by plot.py at 2018-01-03 04:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.92 Mbit/s
95th percentile per-packet one-way delay: 52.608 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 126.49 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 216.44 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 198.82 Mbit/s
95th percentile per-packet one-way delay: 58.986 ms
Loss rate: 1.74%
```


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

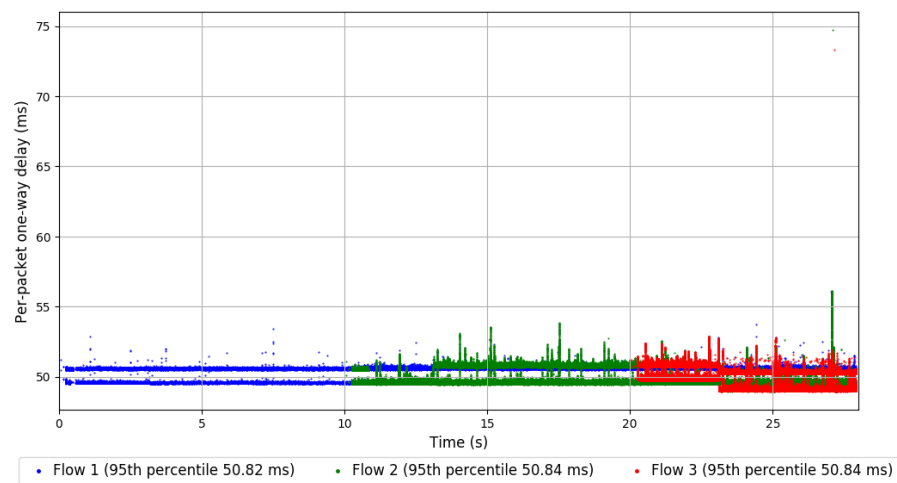
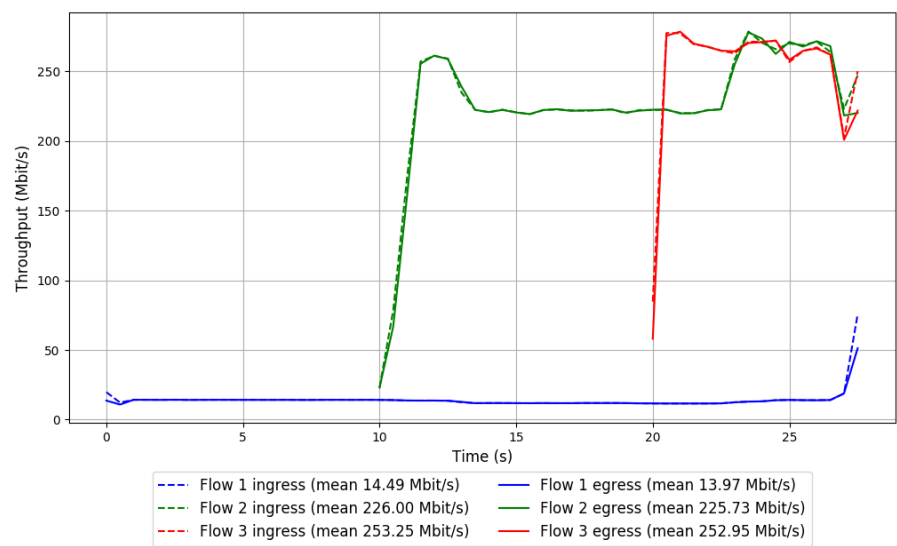


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 23:26:02
End at: 2018-01-02 23:26:32

# Below is generated by plot.py at 2018-01-03 04:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.78 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 3.94%
-- Flow 2:
Average throughput: 225.73 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 252.95 Mbit/s
95th percentile per-packet one-way delay: 50.845 ms
Loss rate: 1.37%
```

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

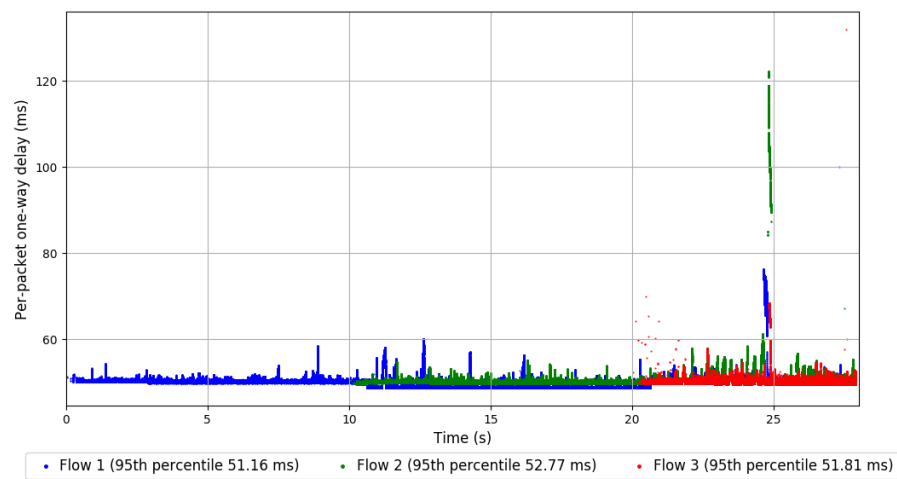
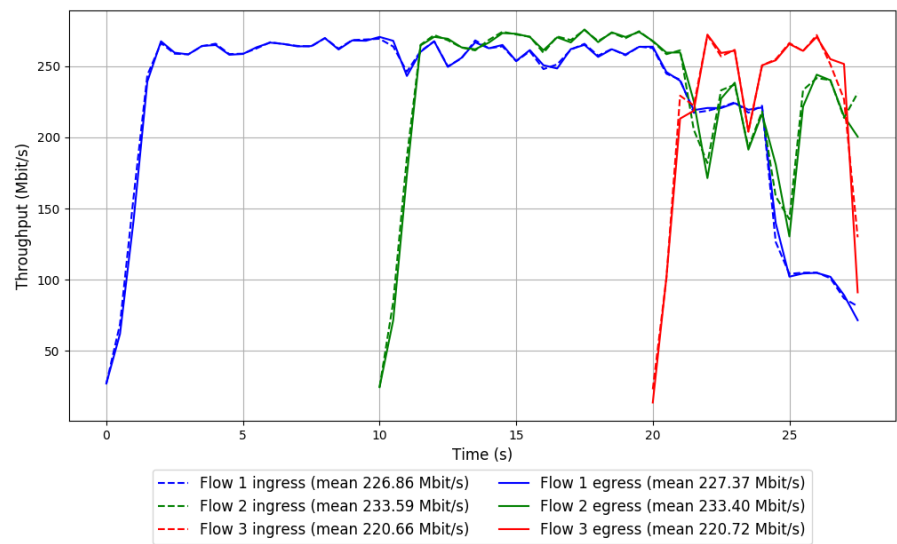


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 23:40:22
End at: 2018-01-02 23:40:52

# Below is generated by plot.py at 2018-01-03 04:26:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.66 Mbit/s
95th percentile per-packet one-way delay: 51.839 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 227.37 Mbit/s
95th percentile per-packet one-way delay: 51.159 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 233.40 Mbit/s
95th percentile per-packet one-way delay: 52.765 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 220.72 Mbit/s
95th percentile per-packet one-way delay: 51.809 ms
Loss rate: 1.11%
```

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

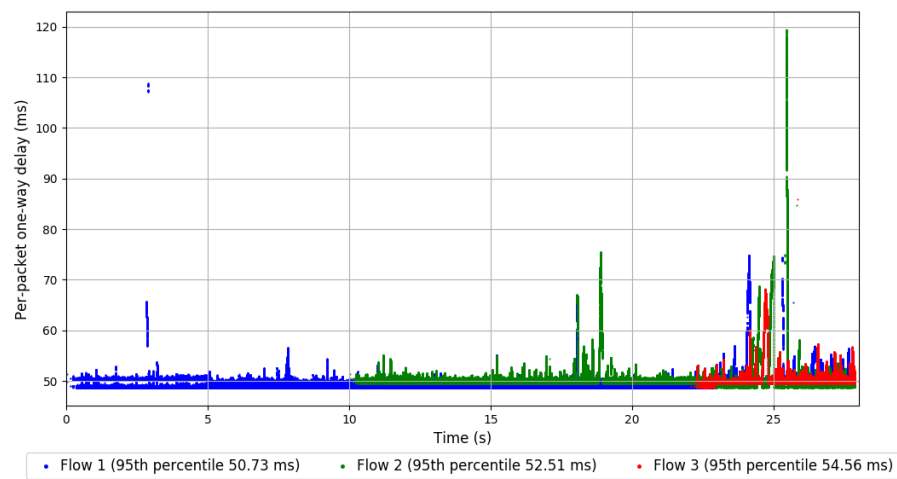
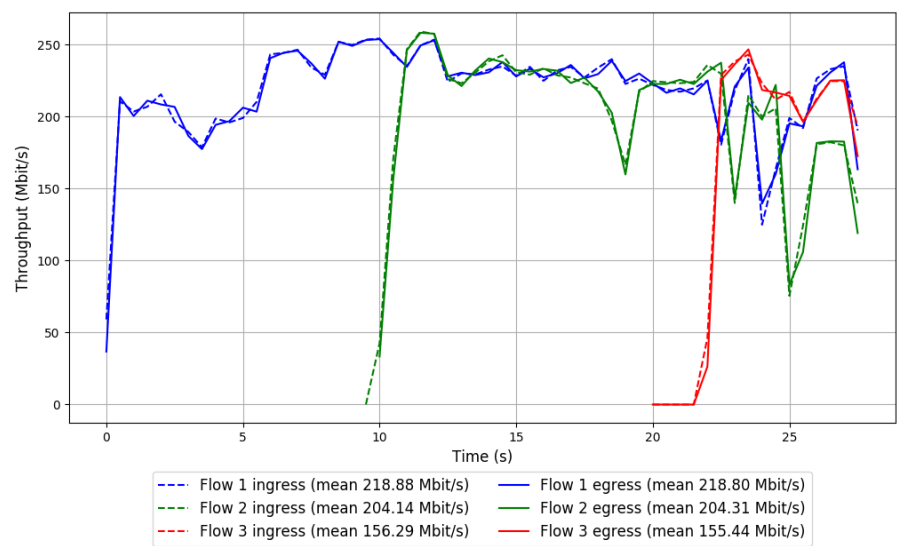


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 23:54:00
End at: 2018-01-02 23:54:30

# Below is generated by plot.py at 2018-01-03 04:26:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.17 Mbit/s
95th percentile per-packet one-way delay: 51.763 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 218.80 Mbit/s
95th percentile per-packet one-way delay: 50.727 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 204.31 Mbit/s
95th percentile per-packet one-way delay: 52.505 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 155.44 Mbit/s
95th percentile per-packet one-way delay: 54.560 ms
Loss rate: 1.83%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-03 00:07:02

End at: 2018-01-03 00:07:32

Below is generated by plot.py at 2018-01-03 04:26:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.02 Mbit/s

95th percentile per-packet one-way delay: 51.546 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 171.46 Mbit/s

95th percentile per-packet one-way delay: 51.610 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 158.48 Mbit/s

95th percentile per-packet one-way delay: 51.452 ms

Loss rate: 0.36%

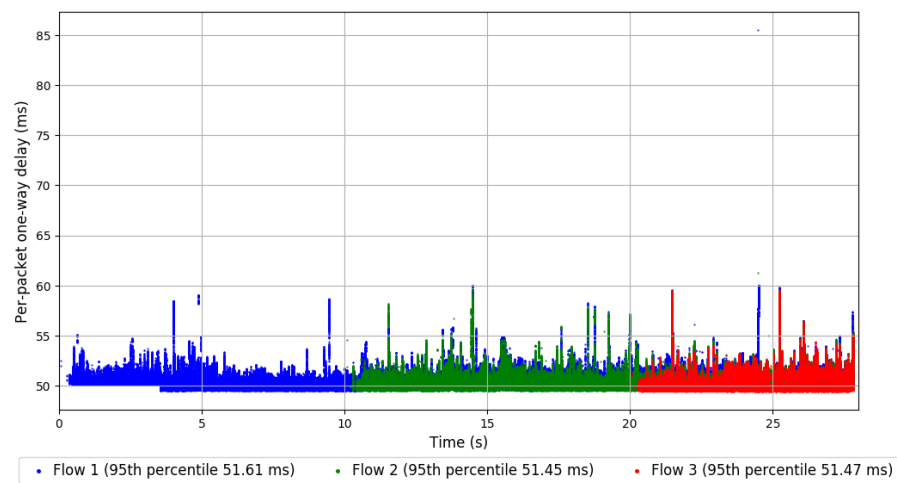
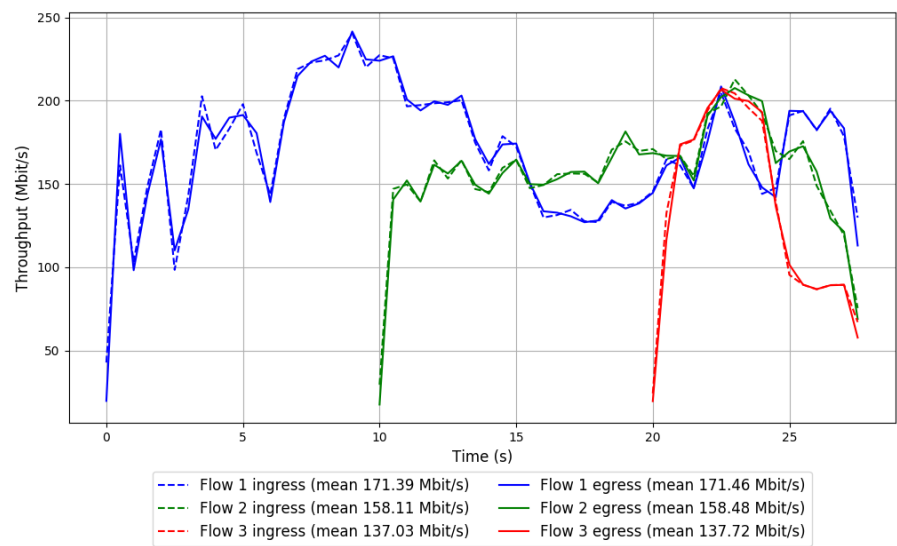
-- Flow 3:

Average throughput: 137.72 Mbit/s

95th percentile per-packet one-way delay: 51.474 ms

Loss rate: 0.87%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-03 00:19:35

End at: 2018-01-03 00:20:05

Below is generated by plot.py at 2018-01-03 04:26:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.62 Mbit/s

95th percentile per-packet one-way delay: 51.413 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 51.674 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 153.01 Mbit/s

95th percentile per-packet one-way delay: 50.908 ms

Loss rate: 0.24%

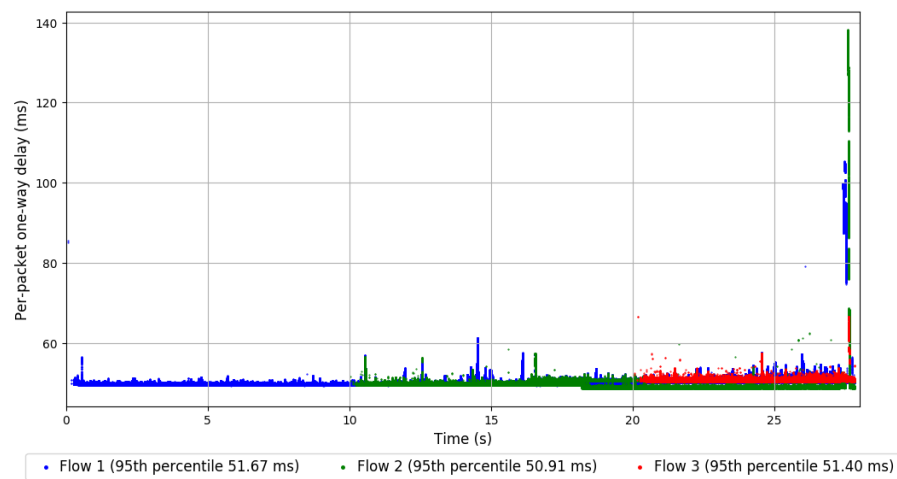
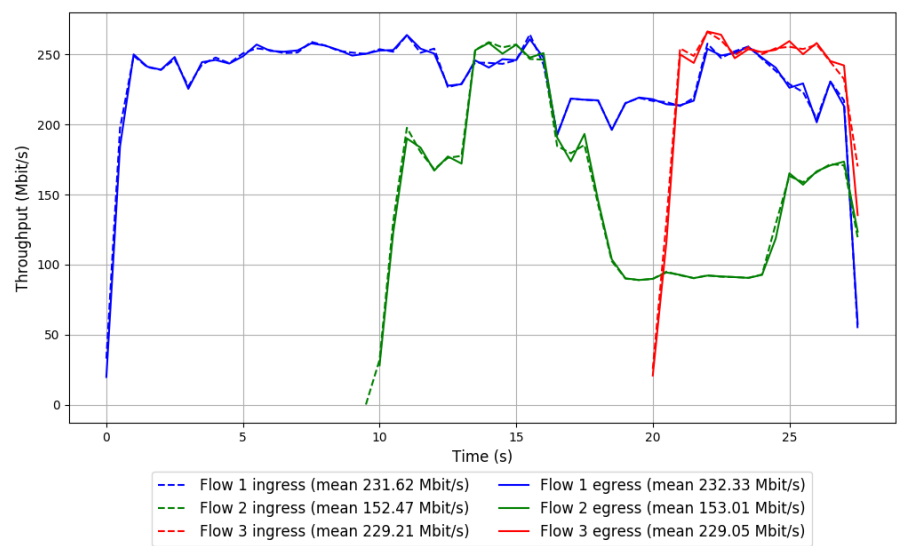
-- Flow 3:

Average throughput: 229.05 Mbit/s

95th percentile per-packet one-way delay: 51.396 ms

Loss rate: 1.41%

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

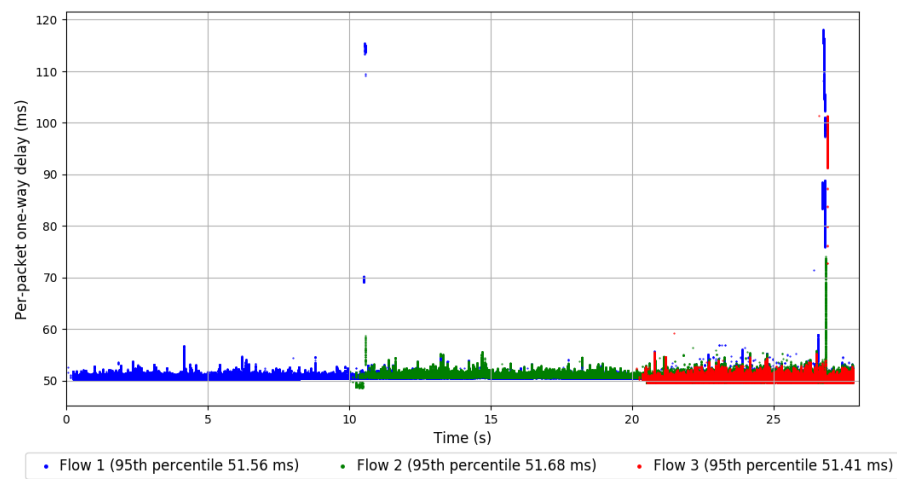
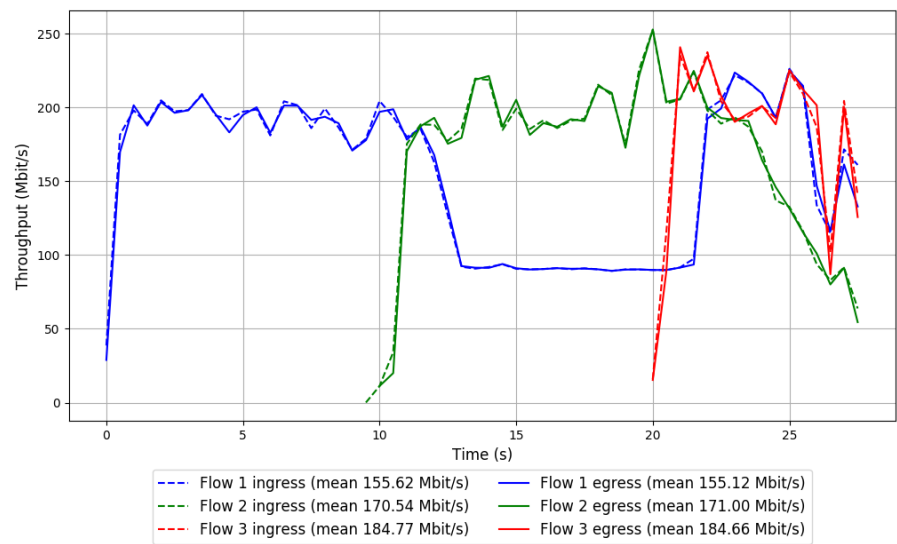


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-03 00:32:15
End at: 2018-01-03 00:32:45

# Below is generated by plot.py at 2018-01-03 04:29:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.57 Mbit/s
95th percentile per-packet one-way delay: 51.598 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 155.12 Mbit/s
95th percentile per-packet one-way delay: 51.565 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 171.00 Mbit/s
95th percentile per-packet one-way delay: 51.681 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 184.66 Mbit/s
95th percentile per-packet one-way delay: 51.405 ms
Loss rate: 1.35%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-03 00:45:44

End at: 2018-01-03 00:46:14

Below is generated by plot.py at 2018-01-03 04:32:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.21 Mbit/s

95th percentile per-packet one-way delay: 50.838 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 216.96 Mbit/s

95th percentile per-packet one-way delay: 51.009 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 184.88 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 0.28%

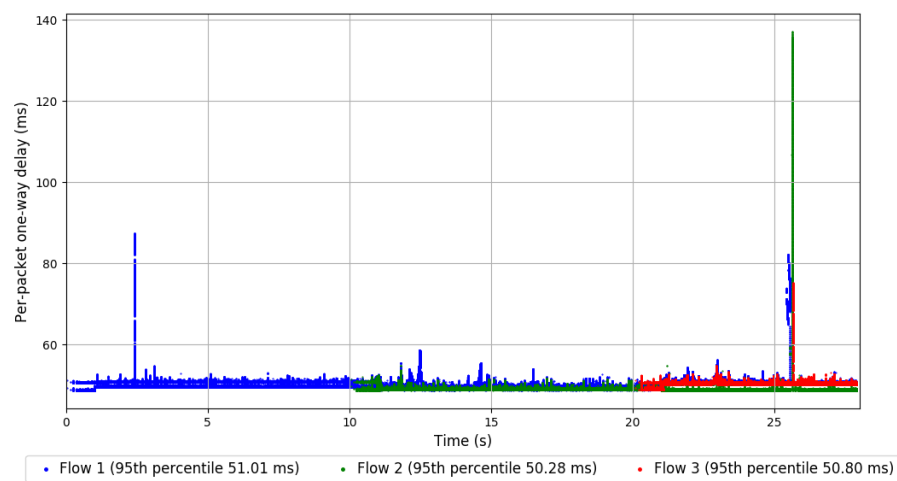
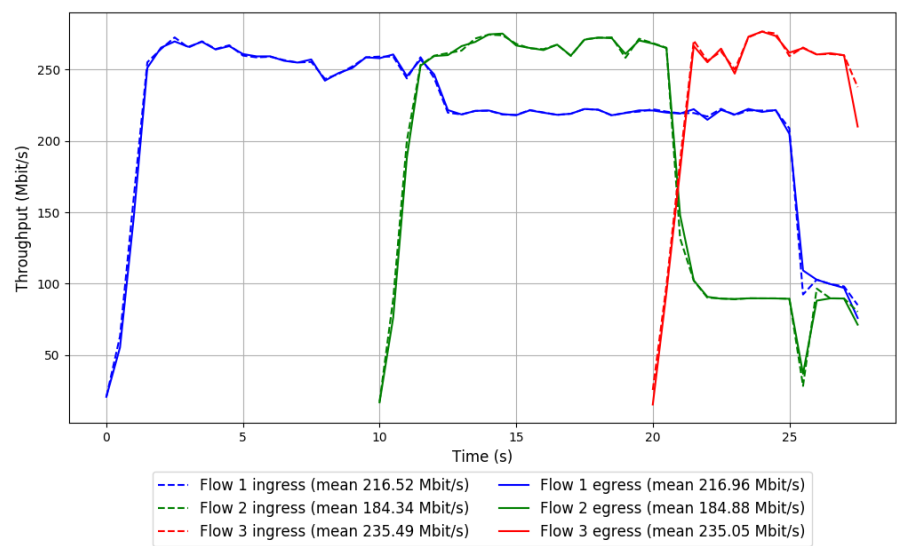
-- Flow 3:

Average throughput: 235.05 Mbit/s

95th percentile per-packet one-way delay: 50.801 ms

Loss rate: 1.45%

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

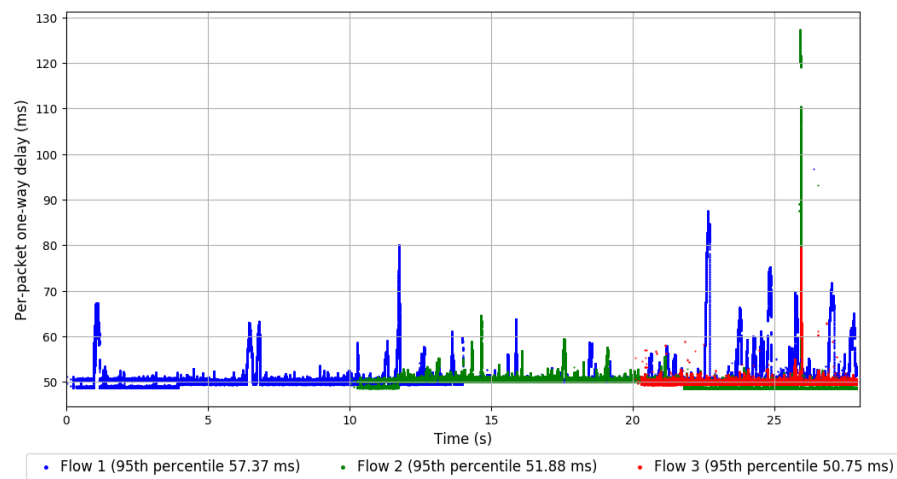
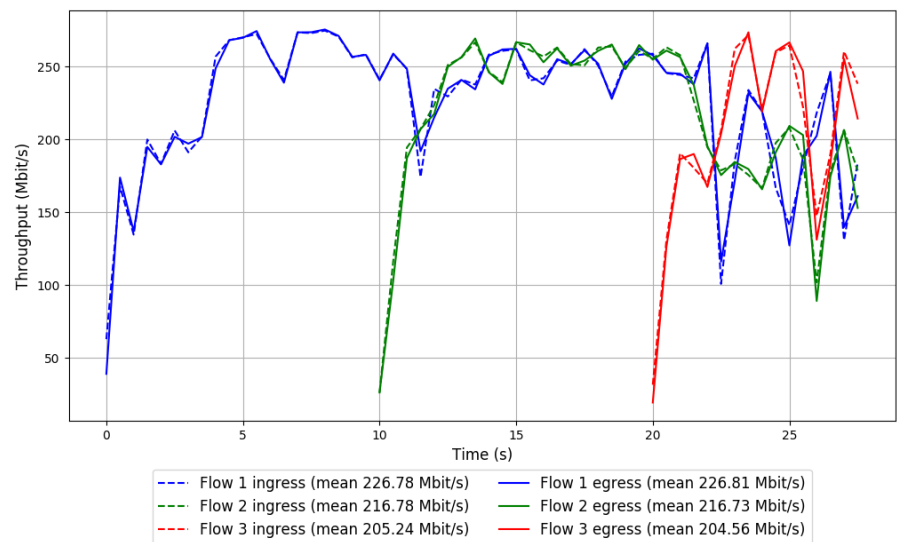


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-03 01:00:11
End at: 2018-01-03 01:00:41

# Below is generated by plot.py at 2018-01-03 04:33:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 423.05 Mbit/s
95th percentile per-packet one-way delay: 54.833 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 226.81 Mbit/s
95th percentile per-packet one-way delay: 57.373 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 216.73 Mbit/s
95th percentile per-packet one-way delay: 51.882 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 204.56 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 1.59%
```


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

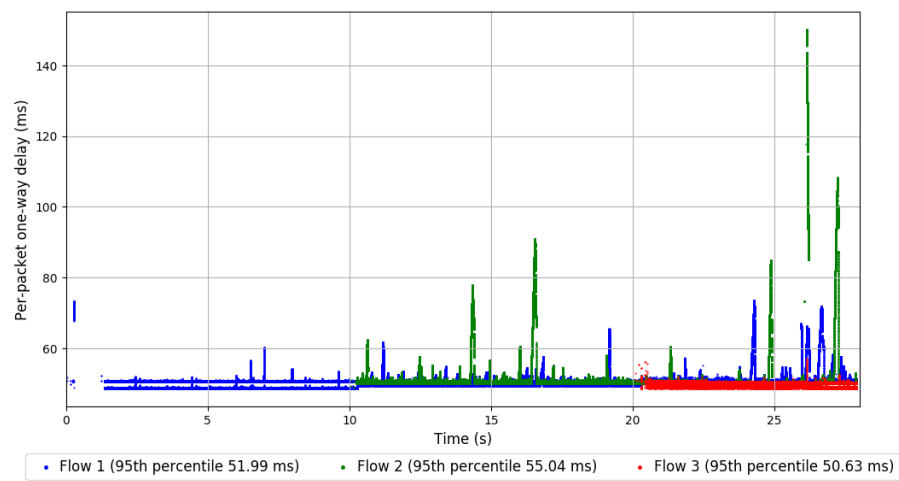
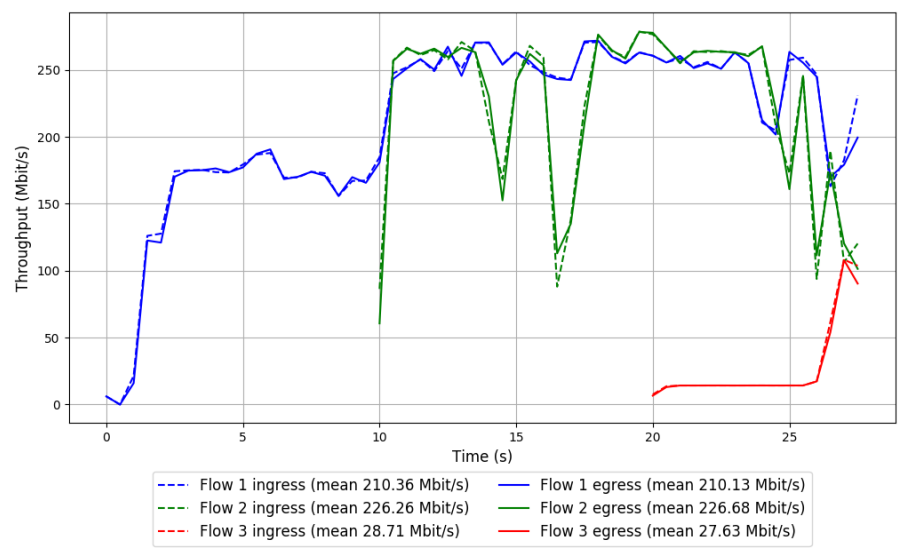


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-03 01:14:33
End at: 2018-01-03 01:15:03

# Below is generated by plot.py at 2018-01-03 04:33:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.11 Mbit/s
95th percentile per-packet one-way delay: 52.499 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 210.13 Mbit/s
95th percentile per-packet one-way delay: 51.992 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 226.68 Mbit/s
95th percentile per-packet one-way delay: 55.043 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 50.635 ms
Loss rate: 5.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 23:17:31

End at: 2018-01-02 23:18:01

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.87 Mbit/s

95th percentile per-packet one-way delay: 56.418 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 54.003 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 57.123 ms

Loss rate: 0.48%

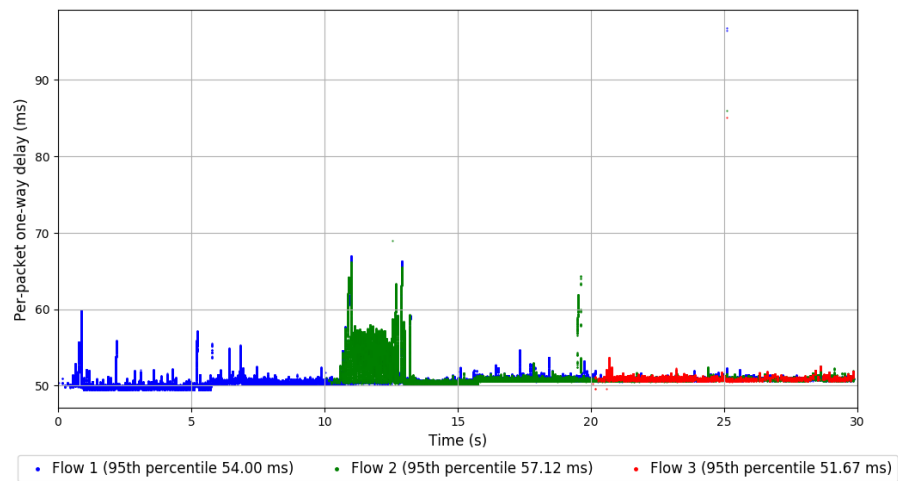
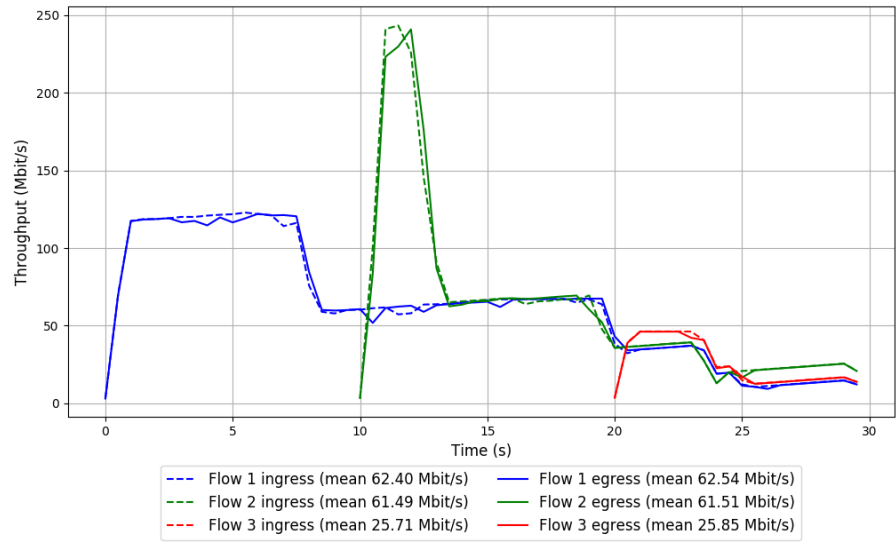
-- Flow 3:

Average throughput: 25.85 Mbit/s

95th percentile per-packet one-way delay: 51.670 ms

Loss rate: 0.89%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 23:31:47

End at: 2018-01-02 23:32:17

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.07 Mbit/s

95th percentile per-packet one-way delay: 50.235 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 50.165 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 0.21%

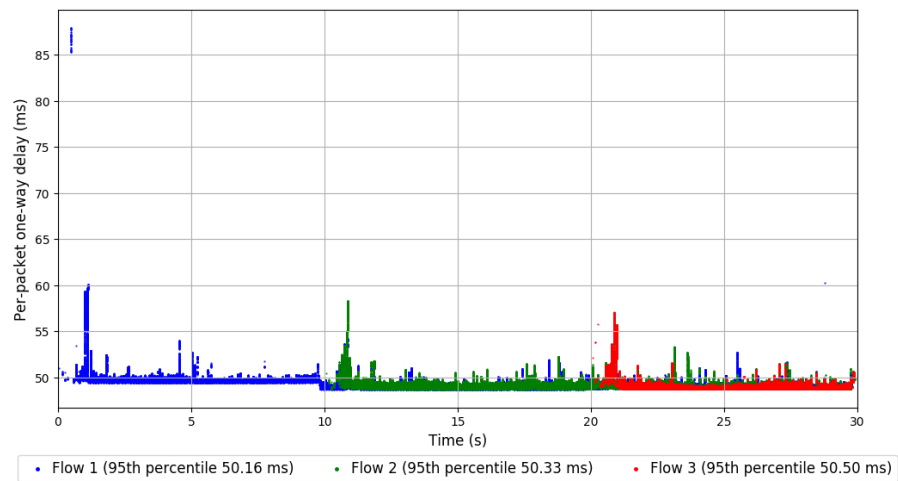
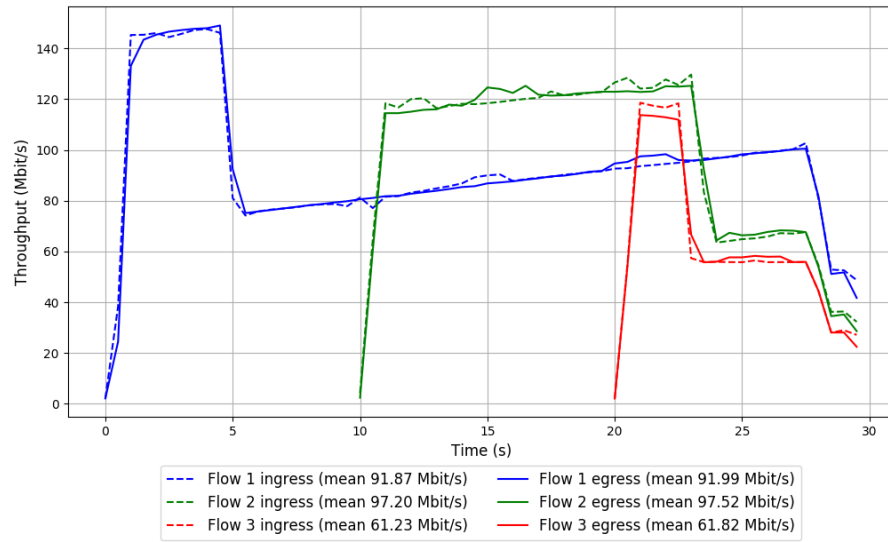
-- Flow 3:

Average throughput: 61.82 Mbit/s

95th percentile per-packet one-way delay: 50.498 ms

Loss rate: 0.51%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 23:46:10

End at: 2018-01-02 23:46:40

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 51.515 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 59.58 Mbit/s

95th percentile per-packet one-way delay: 51.219 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 46.35 Mbit/s

95th percentile per-packet one-way delay: 52.675 ms

Loss rate: 0.57%

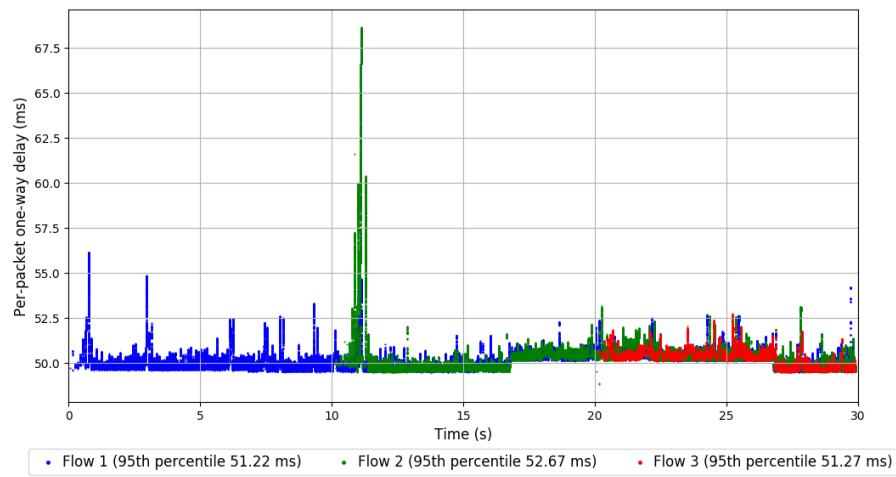
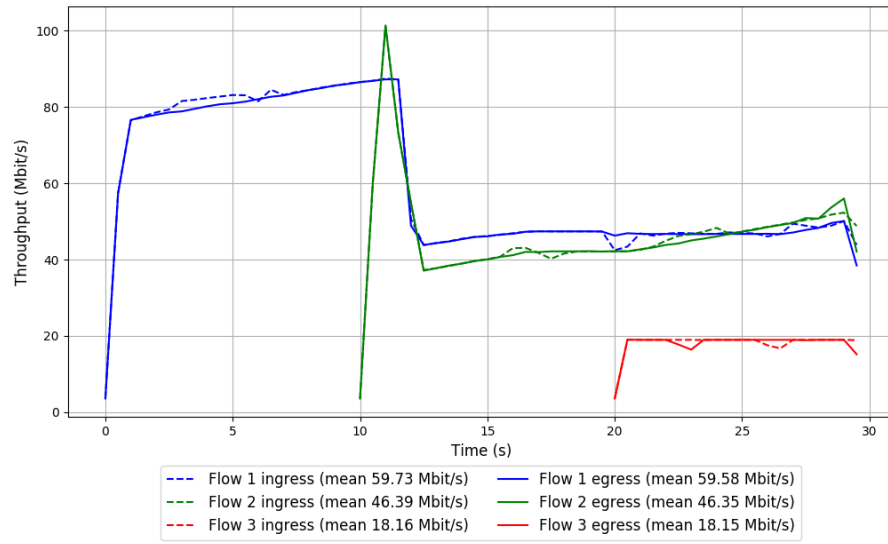
-- Flow 3:

Average throughput: 18.15 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 1.05%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 23:59:45

End at: 2018-01-03 00:00:15

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 51.353 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 19.64 Mbit/s

95th percentile per-packet one-way delay: 51.149 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 31.03 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 0.42%

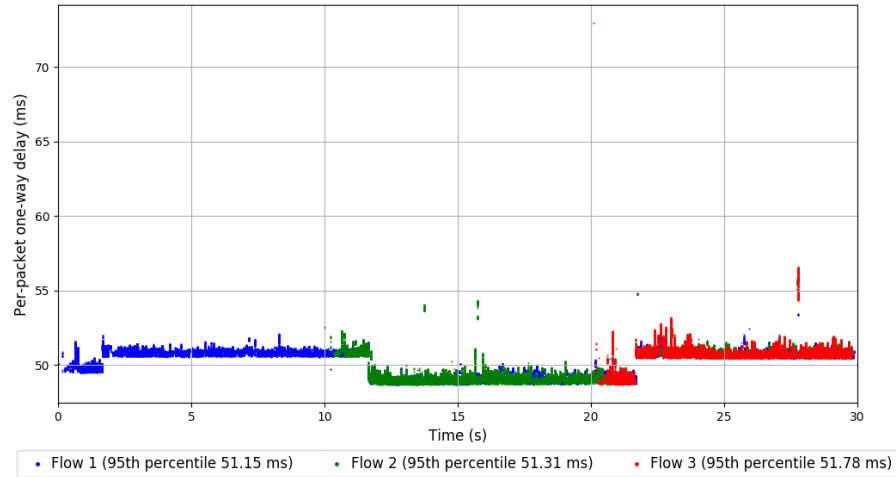
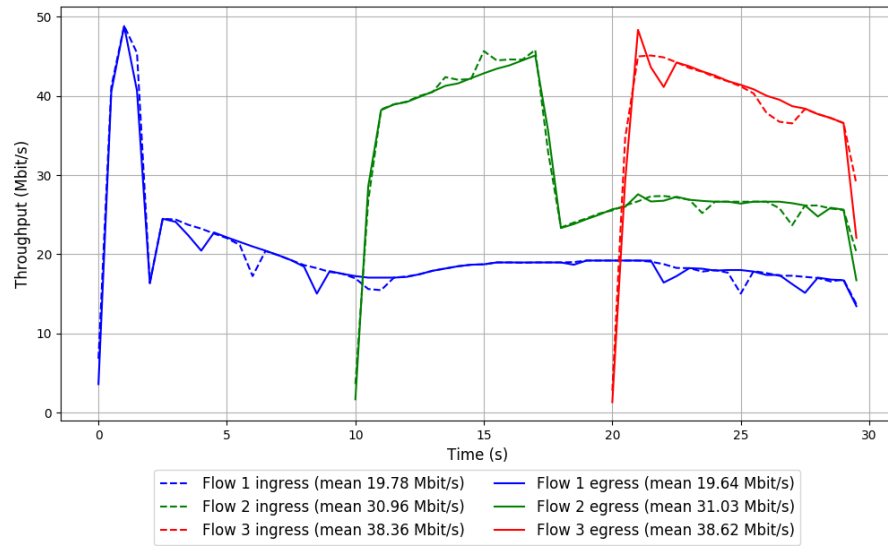
-- Flow 3:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 51.777 ms

Loss rate: 0.95%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-03 00:12:23

End at: 2018-01-03 00:12:53

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.91 Mbit/s

95th percentile per-packet one-way delay: 50.382 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 17.95 Mbit/s

95th percentile per-packet one-way delay: 50.248 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 56.30 Mbit/s

95th percentile per-packet one-way delay: 50.467 ms

Loss rate: 0.55%

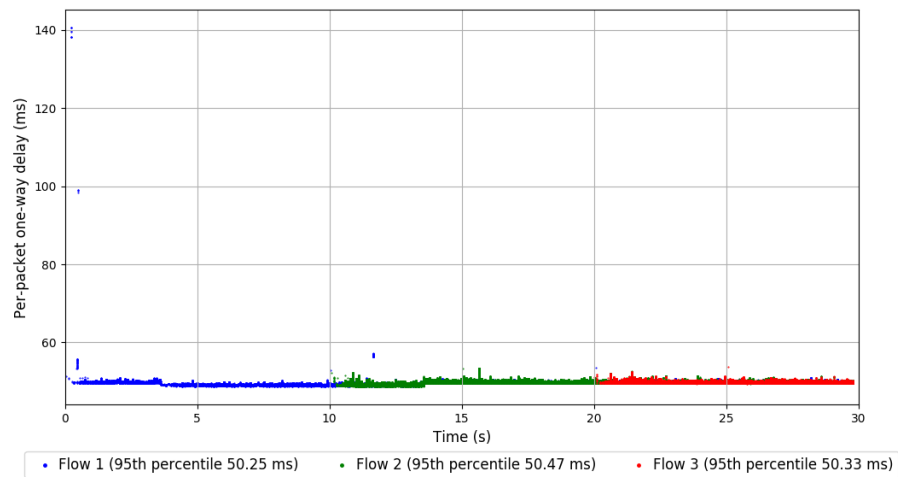
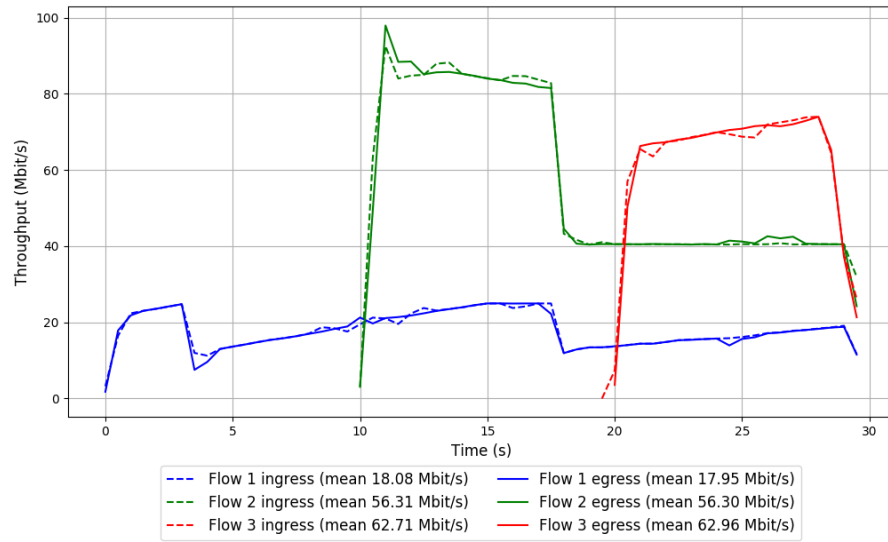
-- Flow 3:

Average throughput: 62.96 Mbit/s

95th percentile per-packet one-way delay: 50.331 ms

Loss rate: 0.64%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-03 00:25:09

End at: 2018-01-03 00:25:39

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.39 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 51.156 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 37.34 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.95%

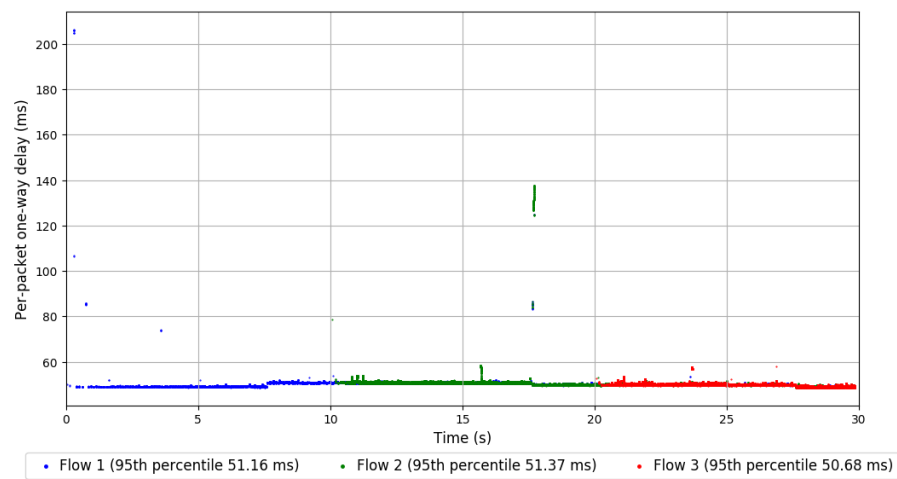
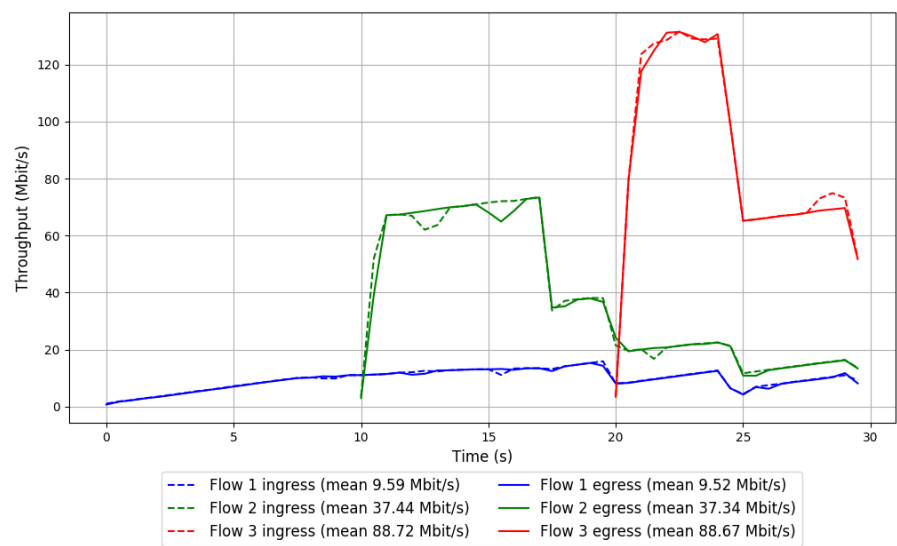
-- Flow 3:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 50.678 ms

Loss rate: 1.09%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-03 00:37:45

End at: 2018-01-03 00:38:15

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.80 Mbit/s

95th percentile per-packet one-way delay: 51.619 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 51.592 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 51.672 ms

Loss rate: 0.86%

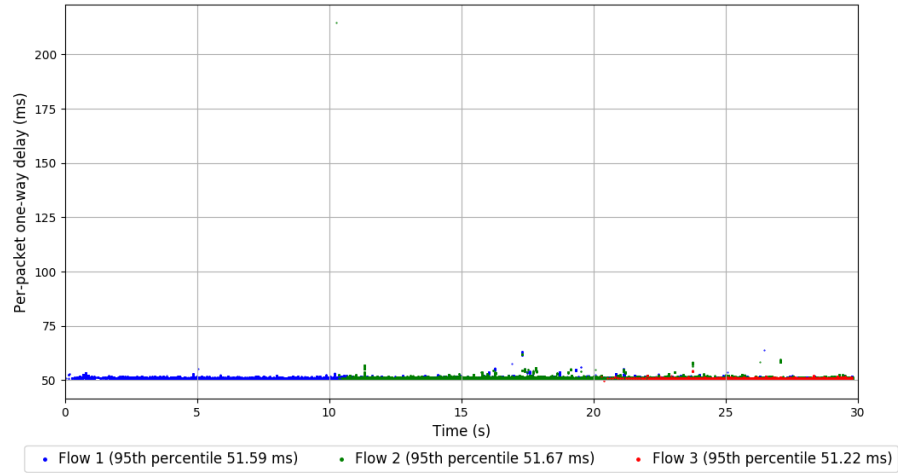
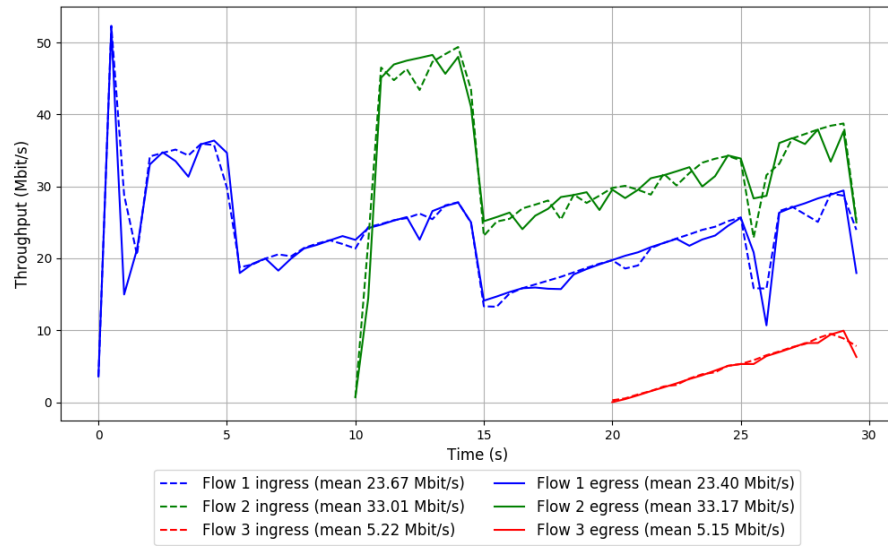
-- Flow 3:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 51.223 ms

Loss rate: 2.33%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-03 00:51:40

End at: 2018-01-03 00:52:10

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.57 Mbit/s

95th percentile per-packet one-way delay: 57.166 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 55.964 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 145.43 Mbit/s

95th percentile per-packet one-way delay: 57.646 ms

Loss rate: 0.78%

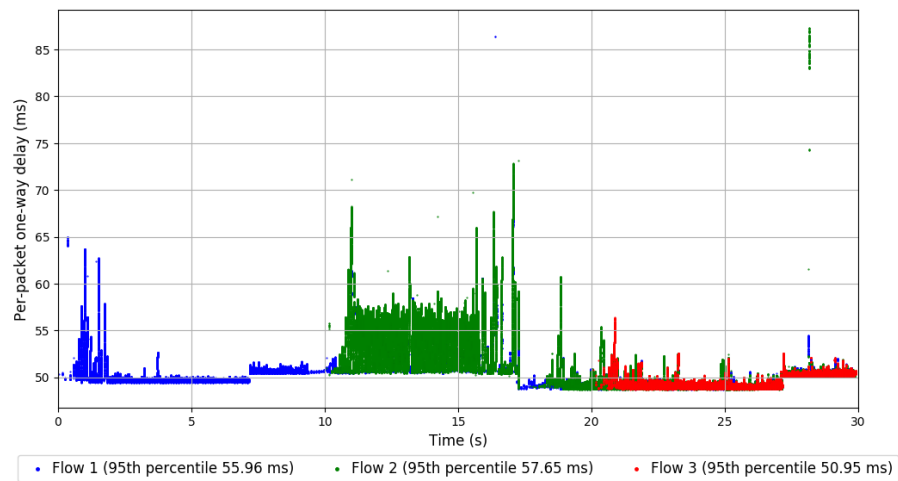
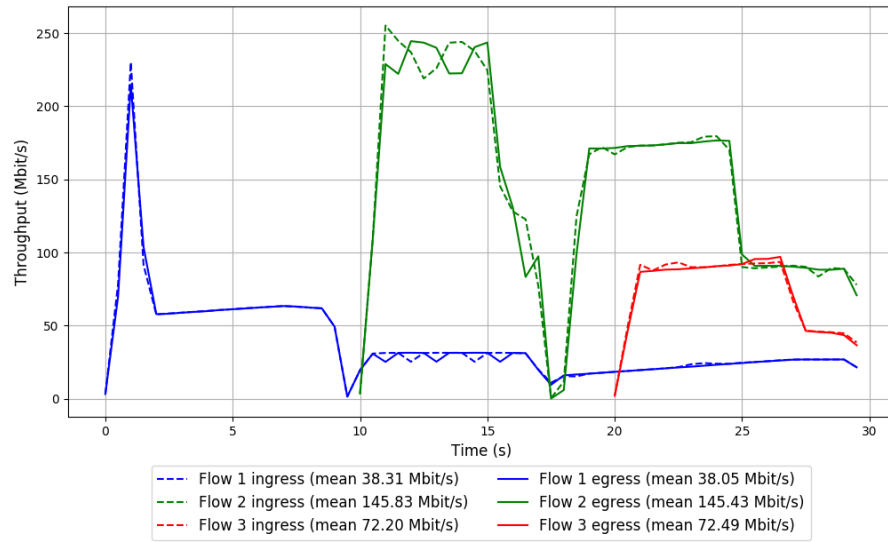
-- Flow 3:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 50.952 ms

Loss rate: 0.61%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

End at: 2018-01-03 01:06:40

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 51.291 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 72.02 Mbit/s

95th percentile per-packet one-way delay: 51.479 ms

Loss rate: 0.37%

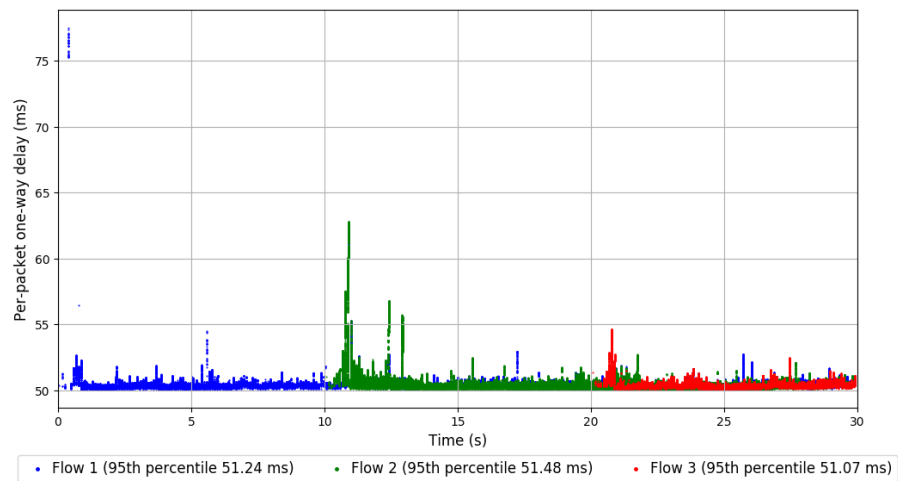
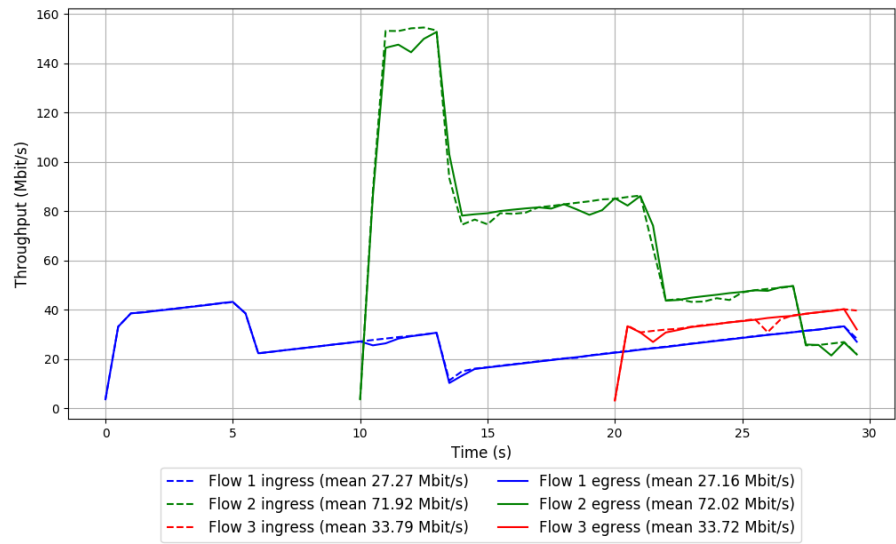
-- Flow 3:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 51.071 ms

Loss rate: 1.24%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-03 01:20:27

End at: 2018-01-03 01:20:57

Below is generated by plot.py at 2018-01-03 04:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.50 Mbit/s

95th percentile per-packet one-way delay: 59.891 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 18.70 Mbit/s

95th percentile per-packet one-way delay: 55.716 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 180.79 Mbit/s

95th percentile per-packet one-way delay: 60.250 ms

Loss rate: 0.93%

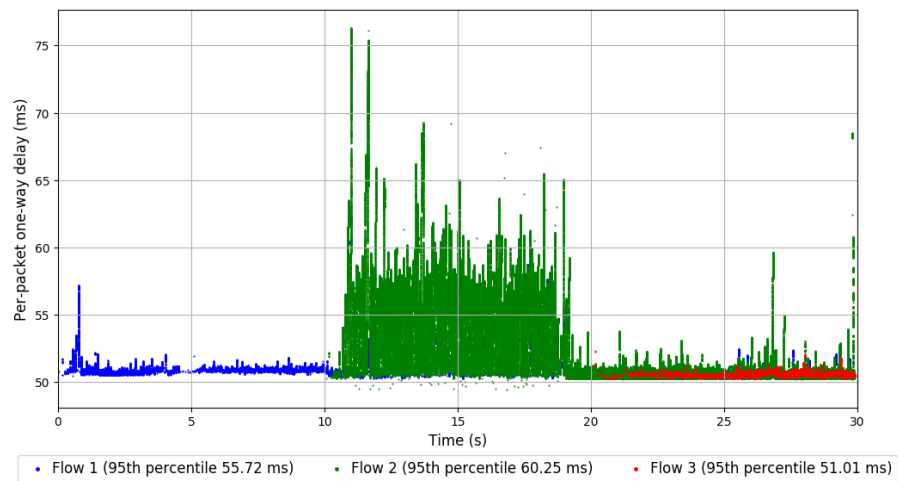
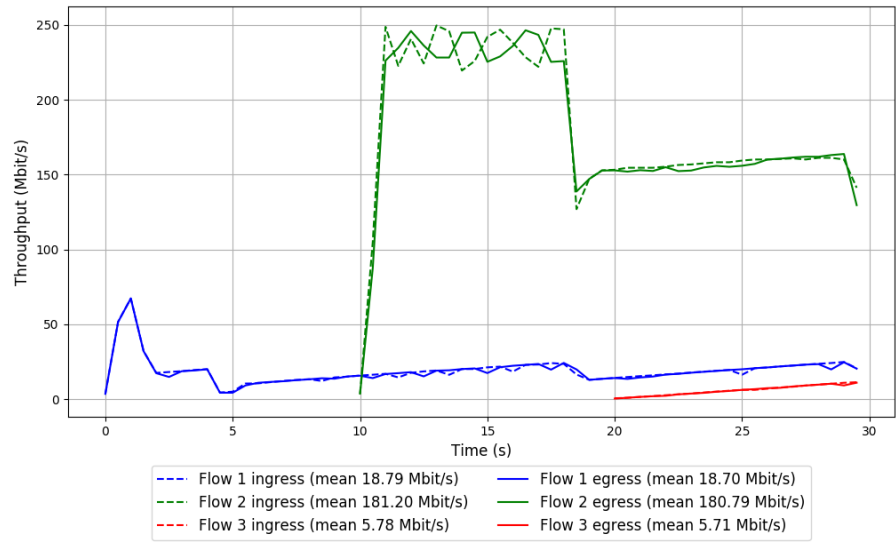
-- Flow 3:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 51.014 ms

Loss rate: 2.19%

Run 10: Report of TCP Vegas — Data Link

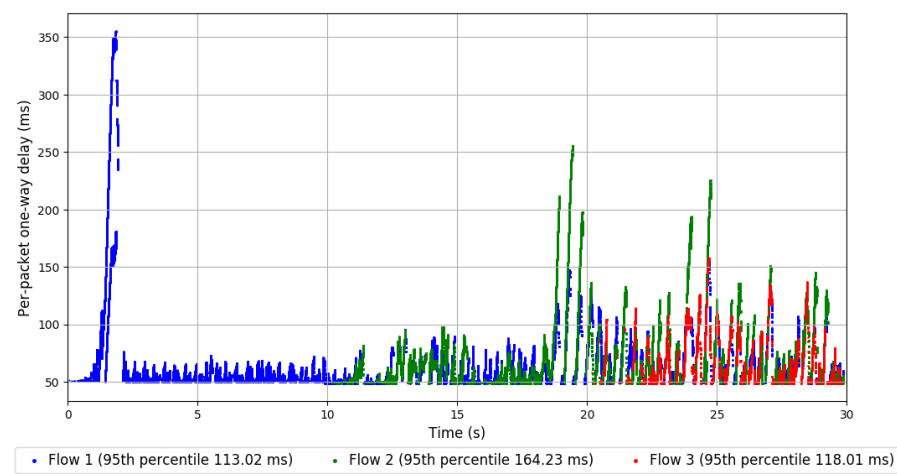
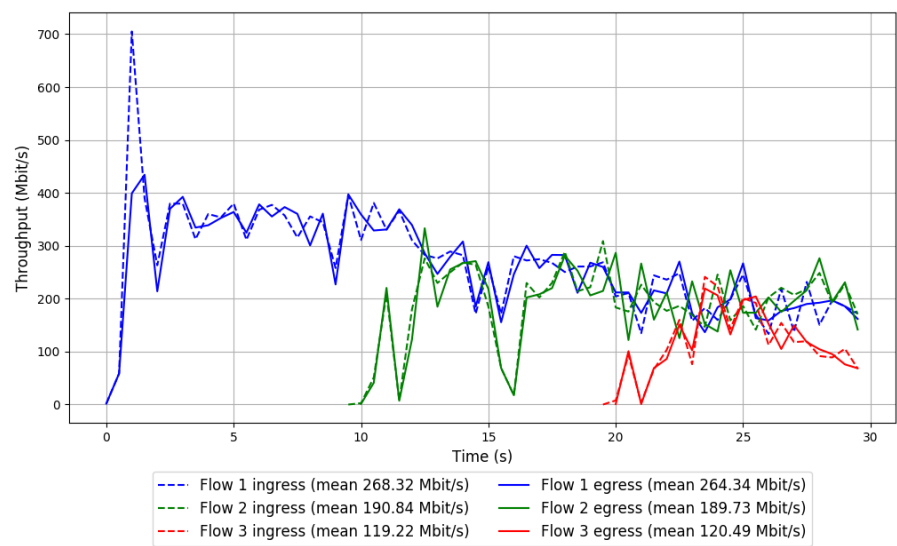


```
Run 1: Statistics of Verus

Start at: 2018-01-02 23:18:17
End at: 2018-01-02 23:18:47

# Below is generated by plot.py at 2018-01-03 04:35:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 429.78 Mbit/s
95th percentile per-packet one-way delay: 126.581 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 264.34 Mbit/s
95th percentile per-packet one-way delay: 113.022 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 189.73 Mbit/s
95th percentile per-packet one-way delay: 164.234 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 120.49 Mbit/s
95th percentile per-packet one-way delay: 118.012 ms
Loss rate: 1.28%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 23:32:37

End at: 2018-01-02 23:33:07

Below is generated by plot.py at 2018-01-03 04:36:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.38 Mbit/s

95th percentile per-packet one-way delay: 176.052 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 220.17 Mbit/s

95th percentile per-packet one-way delay: 118.118 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 135.81 Mbit/s

95th percentile per-packet one-way delay: 145.309 ms

Loss rate: 1.09%

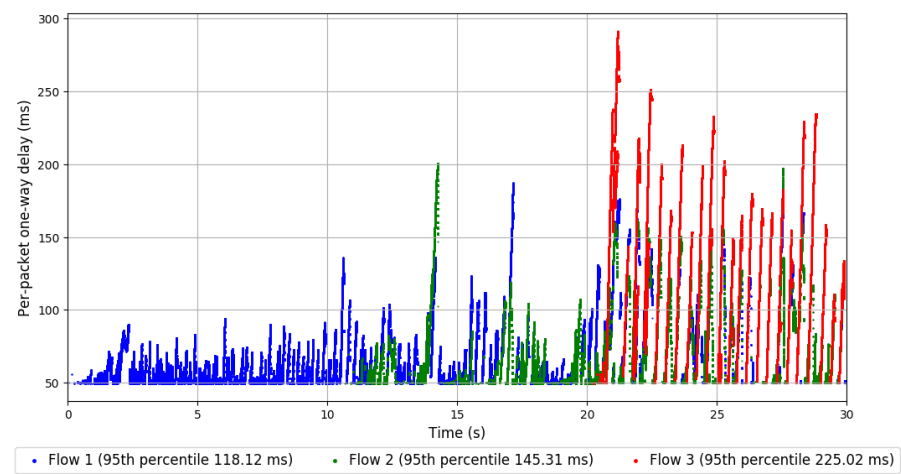
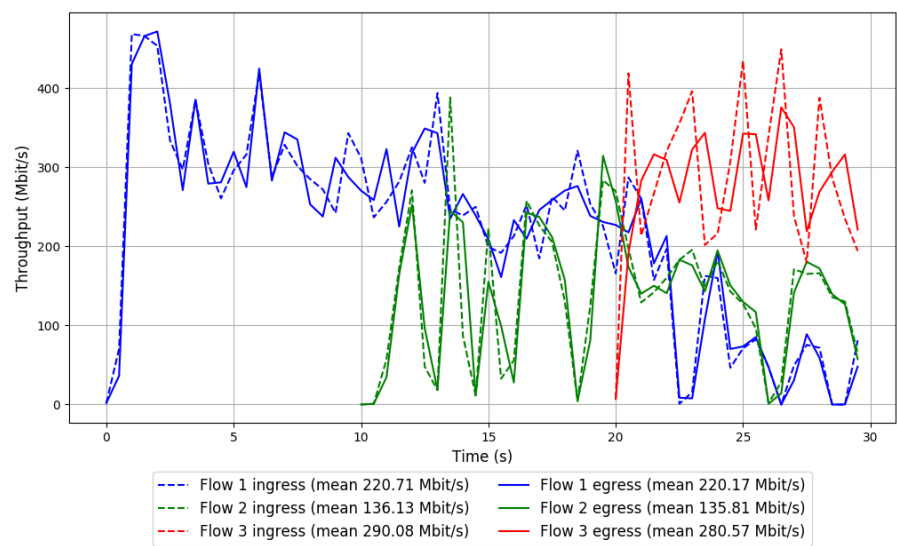
-- Flow 3:

Average throughput: 280.57 Mbit/s

95th percentile per-packet one-way delay: 225.023 ms

Loss rate: 2.81%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 23:46:55

End at: 2018-01-02 23:47:25

Below is generated by plot.py at 2018-01-03 04:36:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.41 Mbit/s

95th percentile per-packet one-way delay: 98.709 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 236.66 Mbit/s

95th percentile per-packet one-way delay: 98.859 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 157.11 Mbit/s

95th percentile per-packet one-way delay: 105.410 ms

Loss rate: 0.00%

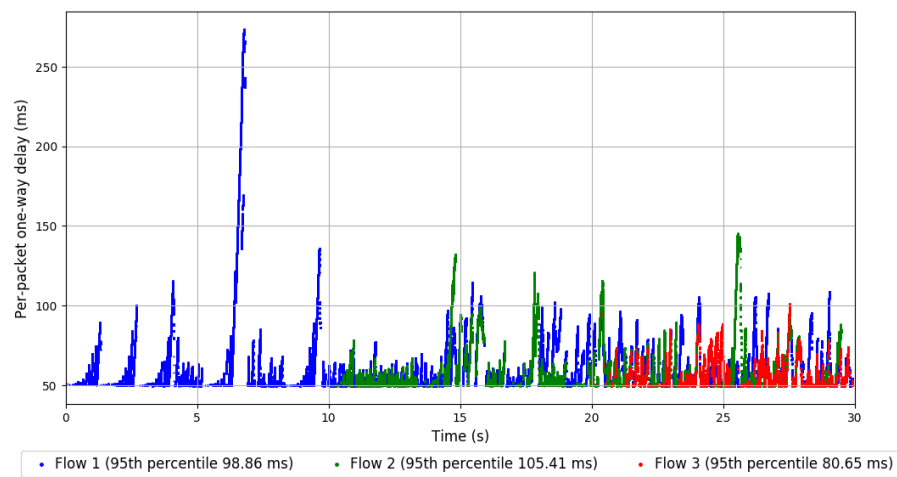
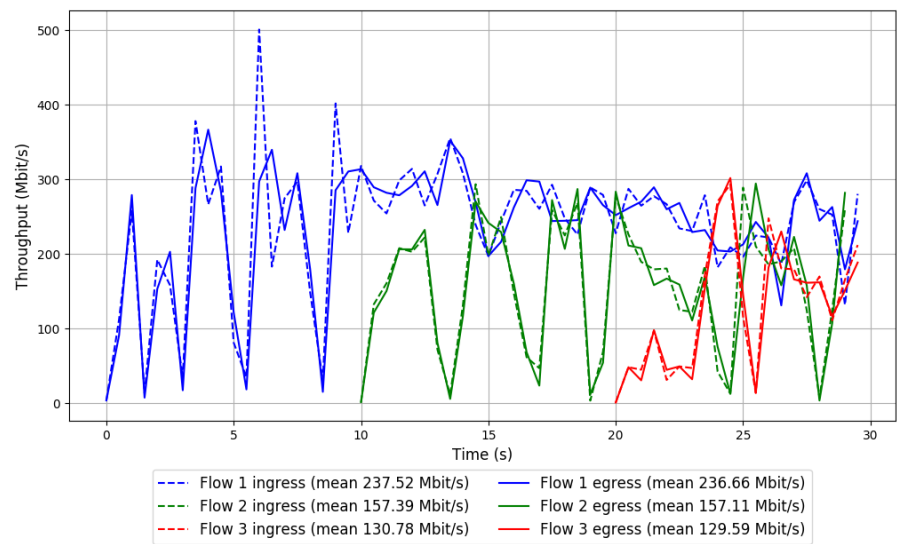
-- Flow 3:

Average throughput: 129.59 Mbit/s

95th percentile per-packet one-way delay: 80.650 ms

Loss rate: 1.96%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-03 00:00:28

End at: 2018-01-03 00:00:58

Below is generated by plot.py at 2018-01-03 04:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.86 Mbit/s

95th percentile per-packet one-way delay: 123.969 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 251.16 Mbit/s

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

Loss rate: 0.97%

-- Flow 2:

Average throughput: 106.24 Mbit/s

95th percentile per-packet one-way delay: 81.852 ms

Loss rate: 0.55%

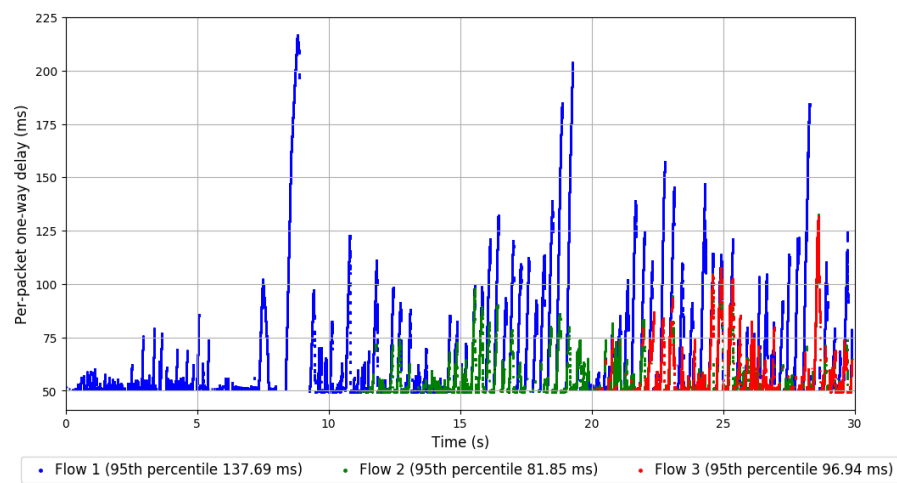
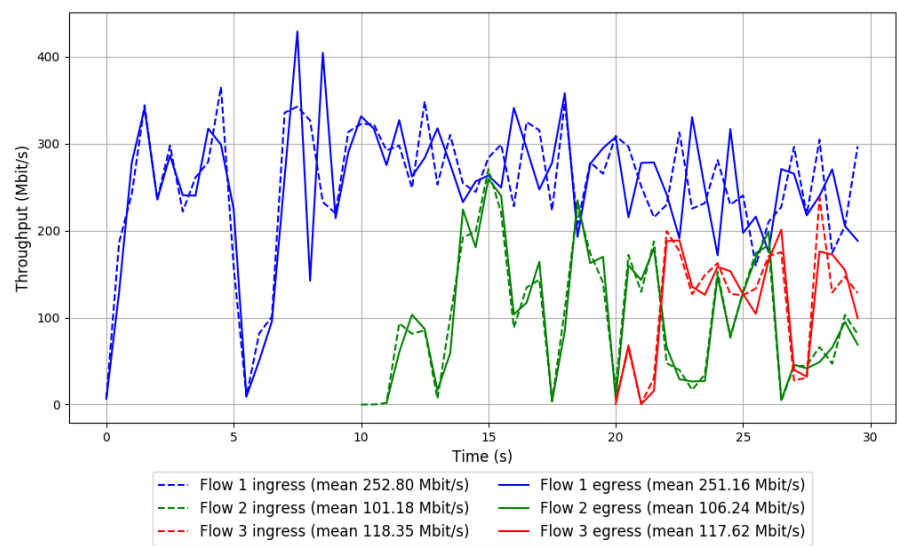
-- Flow 3:

Average throughput: 117.62 Mbit/s

95th percentile per-packet one-way delay: 96.938 ms

Loss rate: 1.67%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-03 00:13:07

End at: 2018-01-03 00:13:37

Below is generated by plot.py at 2018-01-03 04:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.21 Mbit/s

95th percentile per-packet one-way delay: 107.959 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 100.025 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 183.83 Mbit/s

95th percentile per-packet one-way delay: 112.043 ms

Loss rate: 0.61%

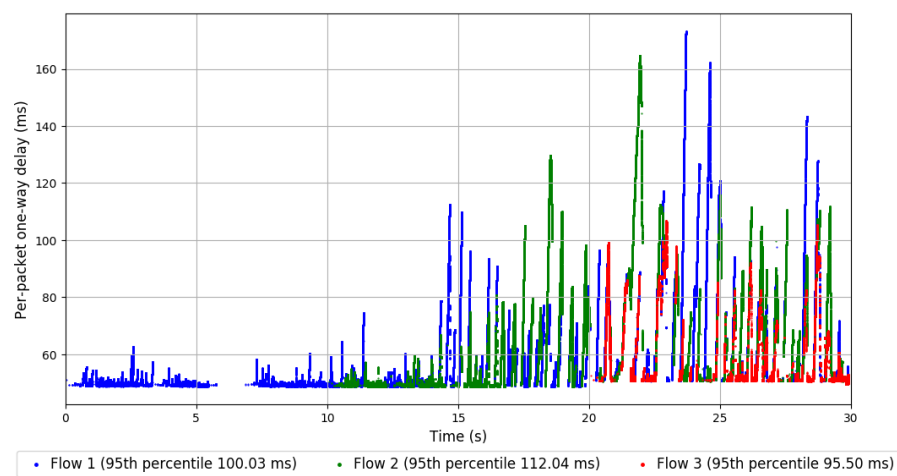
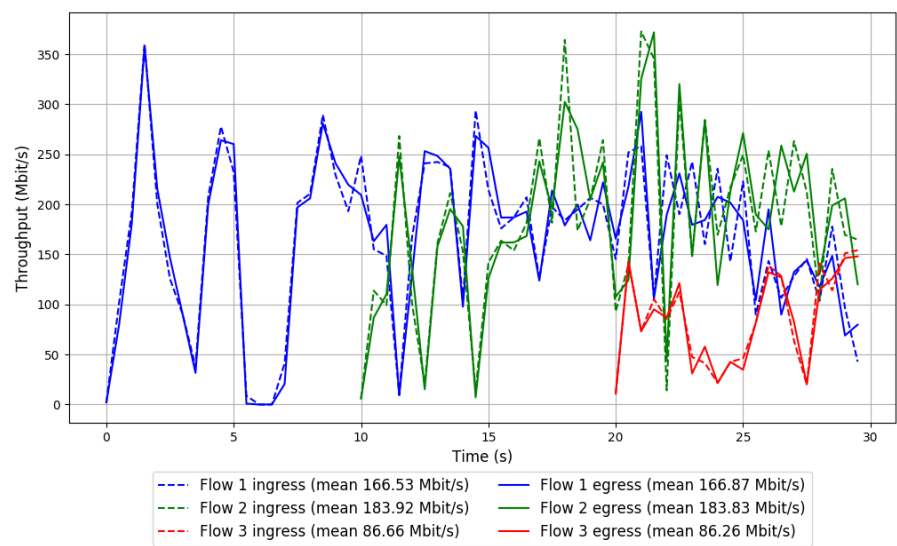
-- Flow 3:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 95.504 ms

Loss rate: 1.49%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-03 00:25:53

End at: 2018-01-03 00:26:23

Below is generated by plot.py at 2018-01-03 04:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.25 Mbit/s

95th percentile per-packet one-way delay: 118.514 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 148.22 Mbit/s

95th percentile per-packet one-way delay: 77.486 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 137.56 Mbit/s

95th percentile per-packet one-way delay: 85.368 ms

Loss rate: 0.03%

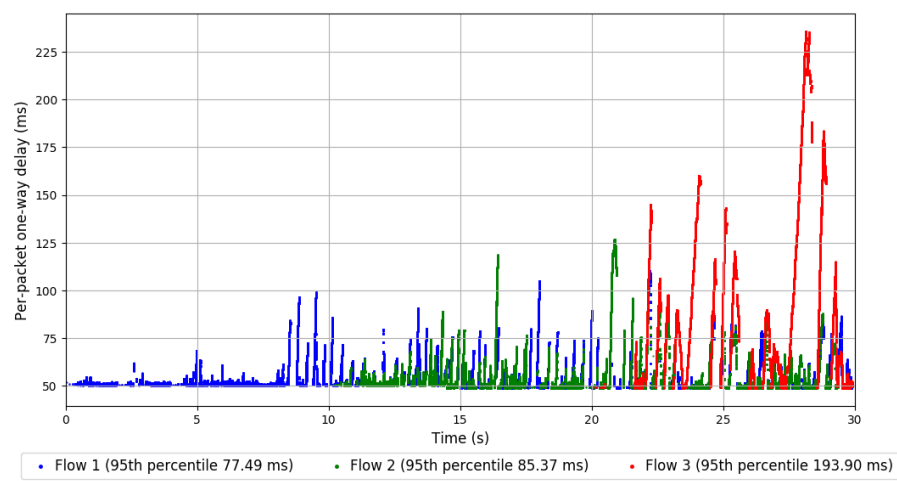
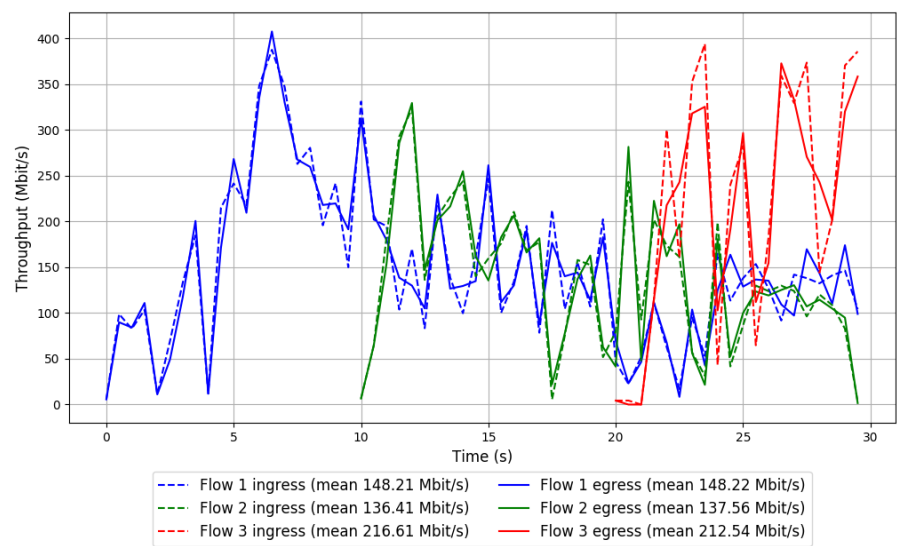
-- Flow 3:

Average throughput: 212.54 Mbit/s

95th percentile per-packet one-way delay: 193.904 ms

Loss rate: 3.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-03 00:38:29

End at: 2018-01-03 00:38:59

Below is generated by plot.py at 2018-01-03 04:38:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.41 Mbit/s

95th percentile per-packet one-way delay: 88.785 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 153.78 Mbit/s

95th percentile per-packet one-way delay: 90.134 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 185.06 Mbit/s

95th percentile per-packet one-way delay: 90.097 ms

Loss rate: 1.19%

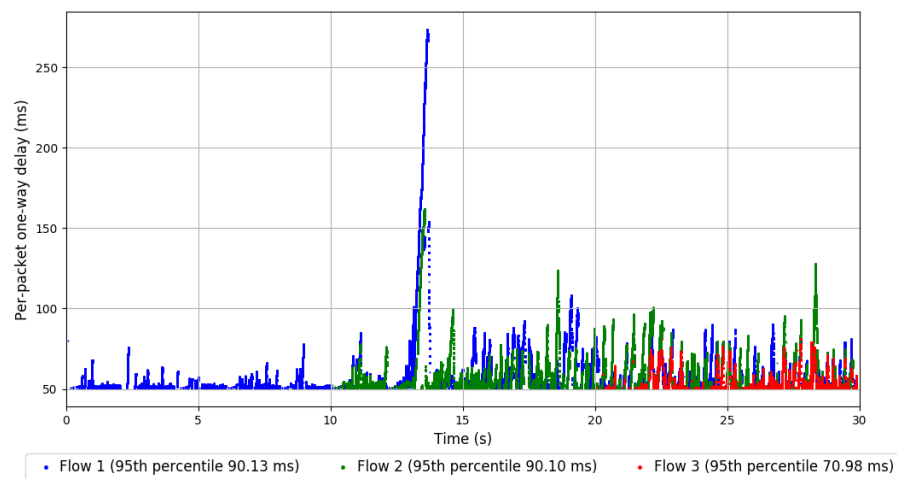
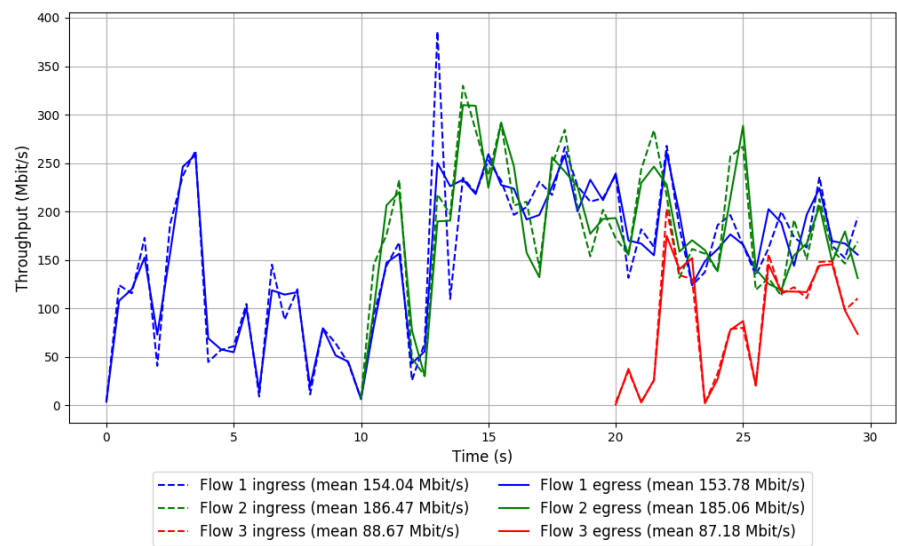
-- Flow 3:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 70.976 ms

Loss rate: 2.86%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-03 00:52:28

End at: 2018-01-03 00:52:58

Below is generated by plot.py at 2018-01-03 04:40:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.17 Mbit/s

95th percentile per-packet one-way delay: 115.278 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 241.43 Mbit/s

95th percentile per-packet one-way delay: 108.089 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 188.07 Mbit/s

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

Loss rate: 0.77%

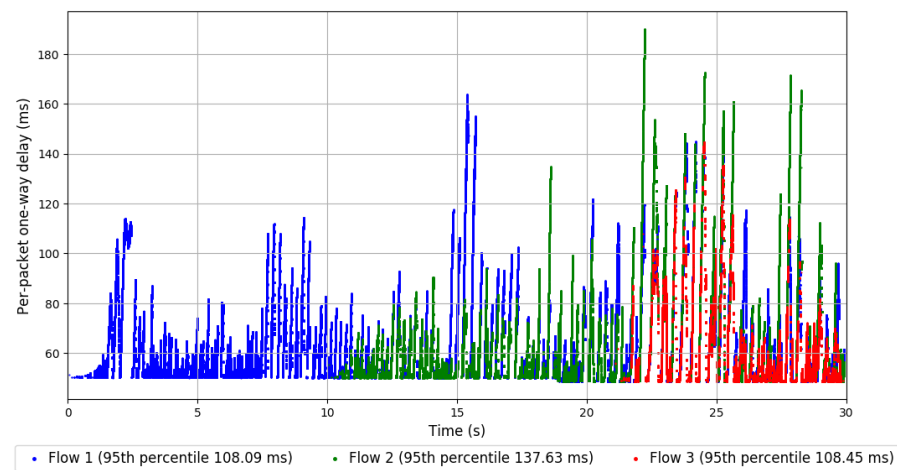
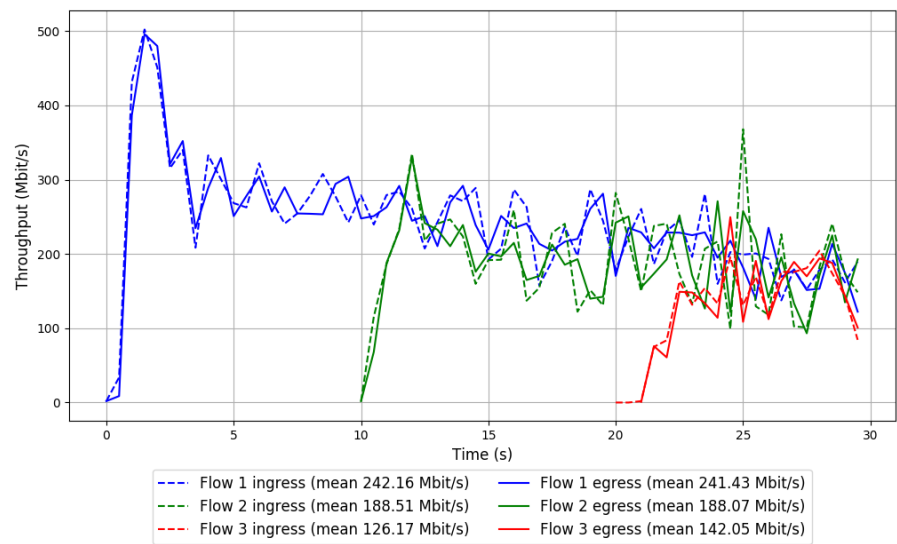
-- Flow 3:

Average throughput: 142.05 Mbit/s

95th percentile per-packet one-way delay: 108.450 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-03 01:06:55

End at: 2018-01-03 01:07:25

Below is generated by plot.py at 2018-01-03 04:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.42 Mbit/s

95th percentile per-packet one-way delay: 103.976 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 234.85 Mbit/s

95th percentile per-packet one-way delay: 100.612 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 169.20 Mbit/s

95th percentile per-packet one-way delay: 117.466 ms

Loss rate: 1.08%

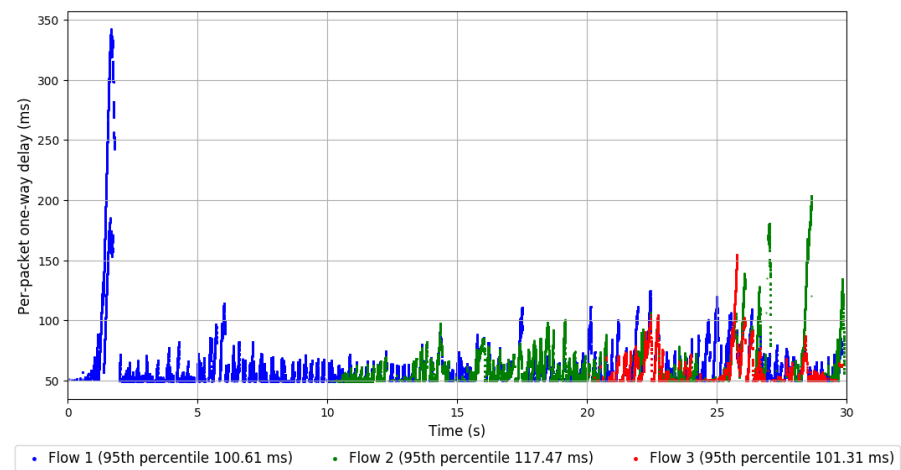
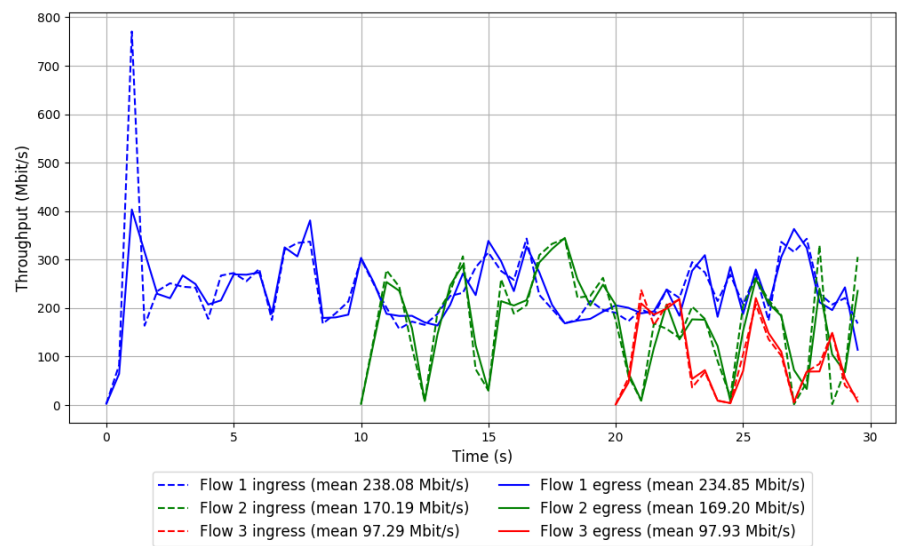
-- Flow 3:

Average throughput: 97.93 Mbit/s

95th percentile per-packet one-way delay: 101.313 ms

Loss rate: 0.43%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-03 01:21:15

End at: 2018-01-03 01:21:45

Below is generated by plot.py at 2018-01-03 04:42:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.35 Mbit/s

95th percentile per-packet one-way delay: 120.825 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 268.07 Mbit/s

95th percentile per-packet one-way delay: 123.355 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 140.86 Mbit/s

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

Loss rate: 0.85%

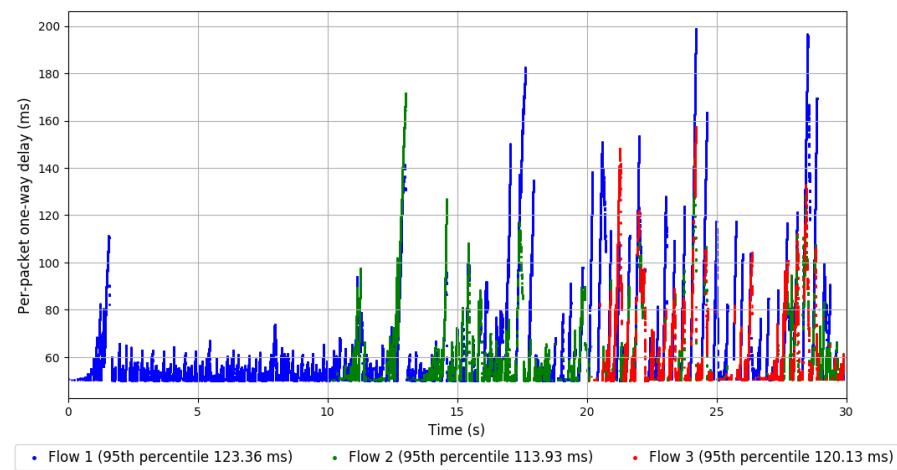
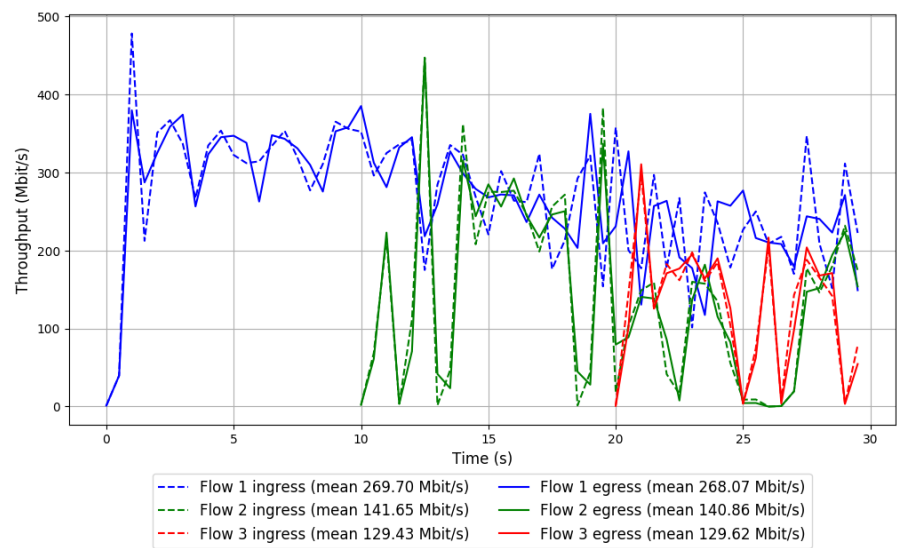
-- Flow 3:

Average throughput: 129.62 Mbit/s

95th percentile per-packet one-way delay: 120.126 ms

Loss rate: 0.94%

Run 10: Report of Verus — Data Link

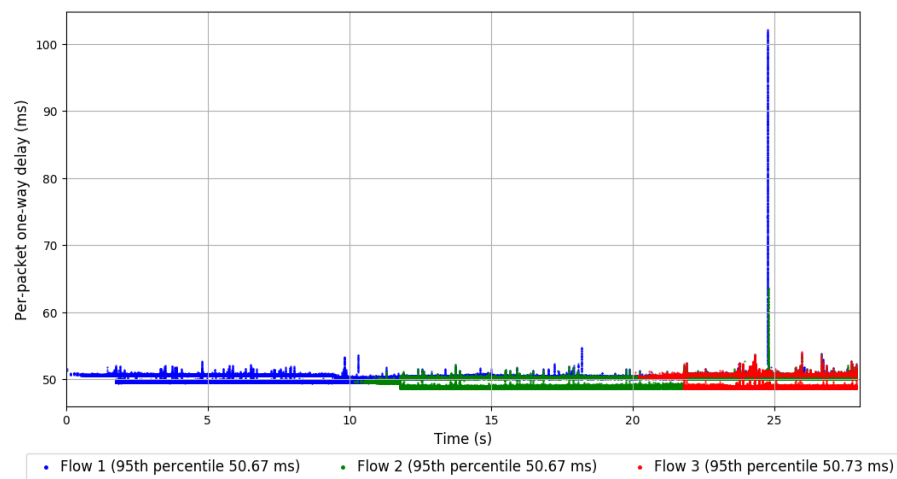
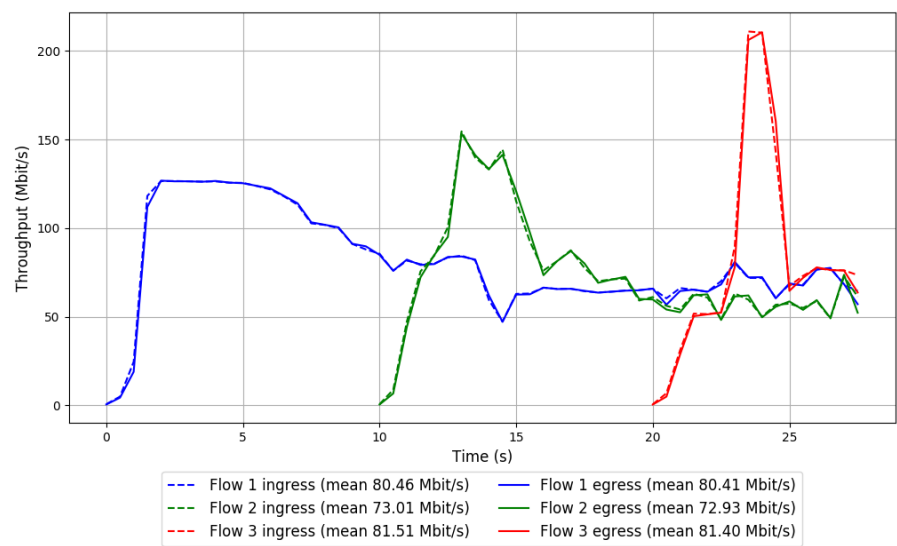


```
Run 1: Statistics of Copa

Start at: 2018-01-02 23:08:43
End at: 2018-01-02 23:09:13

# Below is generated by plot.py at 2018-01-03 04:42:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.99 Mbit/s
95th percentile per-packet one-way delay: 50.689 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 80.41 Mbit/s
95th percentile per-packet one-way delay: 50.674 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 72.93 Mbit/s
95th percentile per-packet one-way delay: 50.675 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 81.40 Mbit/s
95th percentile per-packet one-way delay: 50.731 ms
Loss rate: 1.42%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 23:23:01

End at: 2018-01-02 23:23:31

Below is generated by plot.py at 2018-01-03 04:42:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.16 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 73.18 Mbit/s

95th percentile per-packet one-way delay: 50.535 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.52%

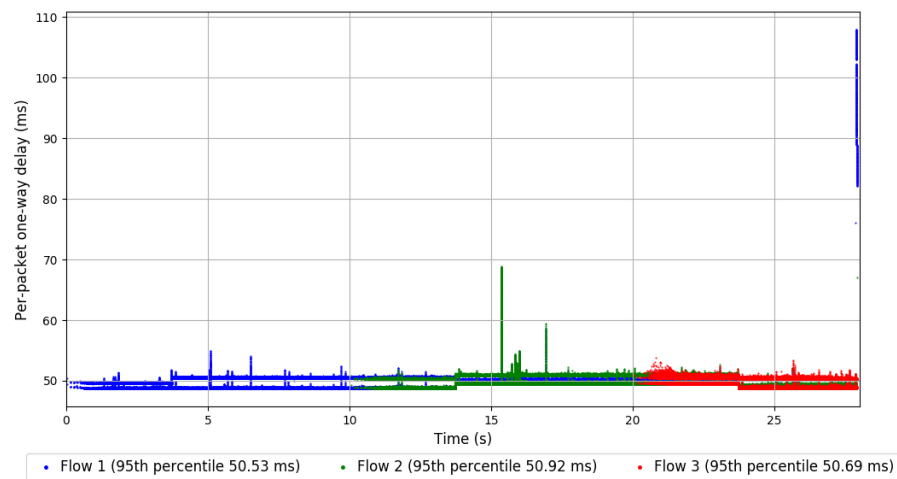
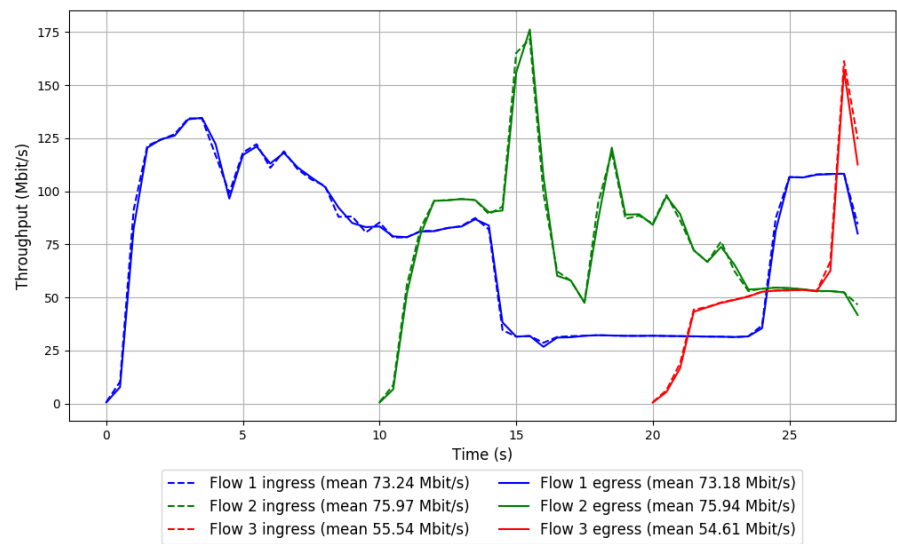
-- Flow 3:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 50.690 ms

Loss rate: 2.93%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 23:37:20

End at: 2018-01-02 23:37:50

Below is generated by plot.py at 2018-01-03 04:42:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.82 Mbit/s

95th percentile per-packet one-way delay: 50.675 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 50.644 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 72.33 Mbit/s

95th percentile per-packet one-way delay: 50.604 ms

Loss rate: 0.64%

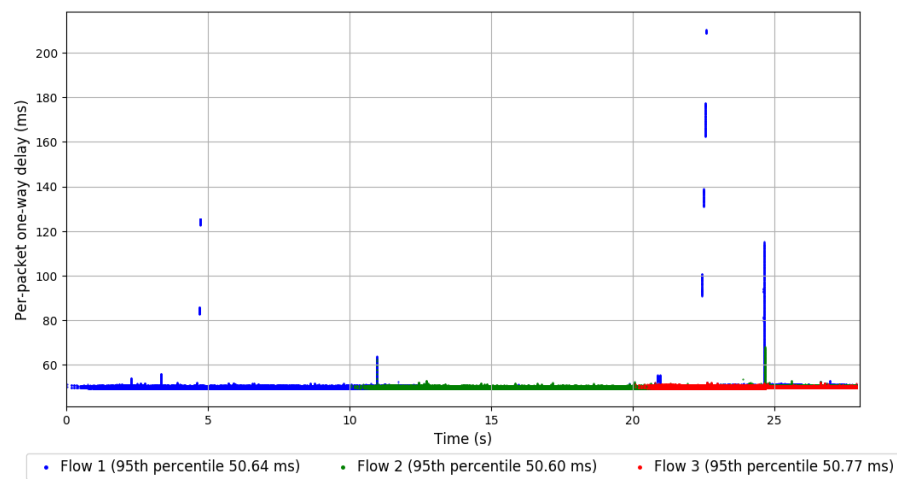
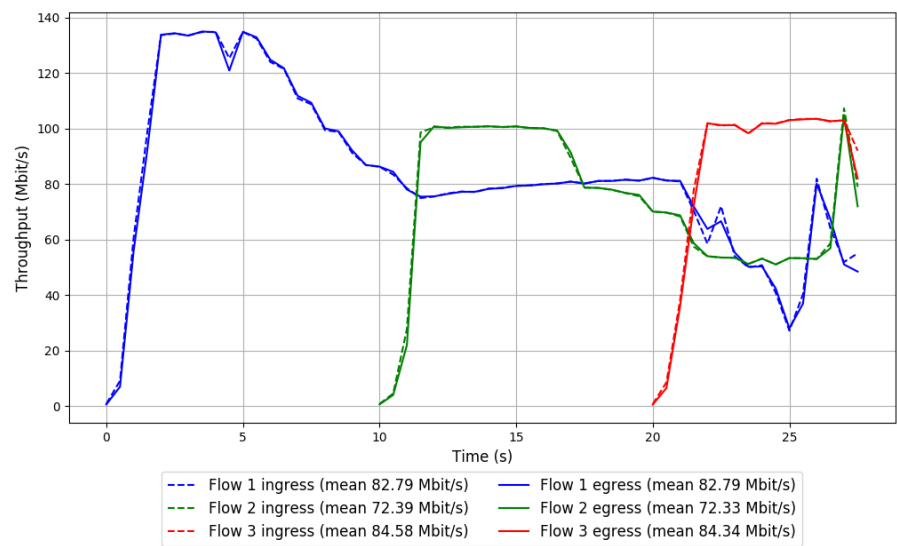
-- Flow 3:

Average throughput: 84.34 Mbit/s

95th percentile per-packet one-way delay: 50.770 ms

Loss rate: 1.52%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 23:51:06

End at: 2018-01-02 23:51:36

Below is generated by plot.py at 2018-01-03 04:42:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.69 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 78.45 Mbit/s

95th percentile per-packet one-way delay: 50.558 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 64.93 Mbit/s

95th percentile per-packet one-way delay: 50.291 ms

Loss rate: 0.32%

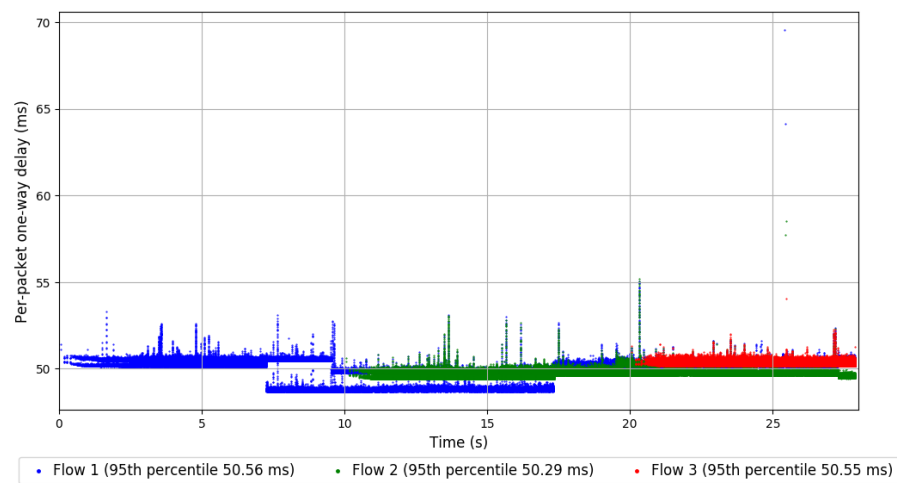
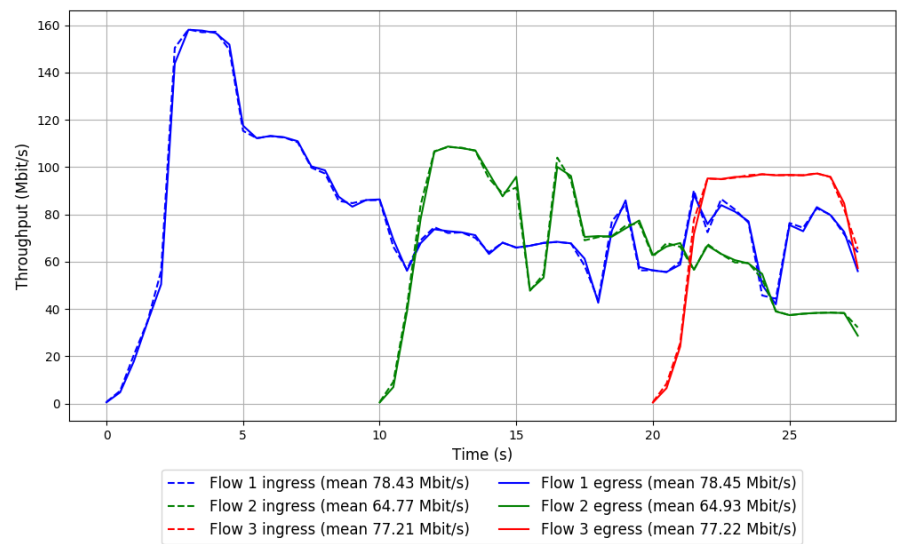
-- Flow 3:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 50.551 ms

Loss rate: 1.25%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-03 00:04:17

End at: 2018-01-03 00:04:47

Below is generated by plot.py at 2018-01-03 04:42:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.44 Mbit/s

95th percentile per-packet one-way delay: 50.678 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 49.73 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.31%

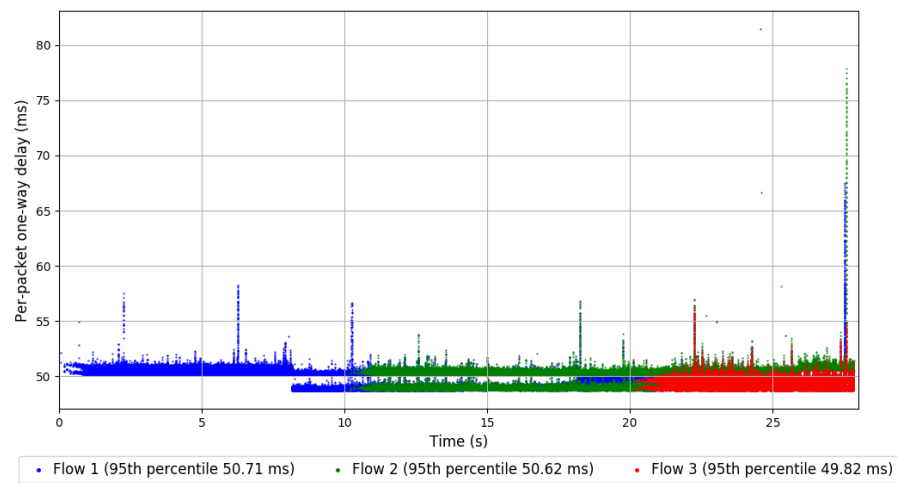
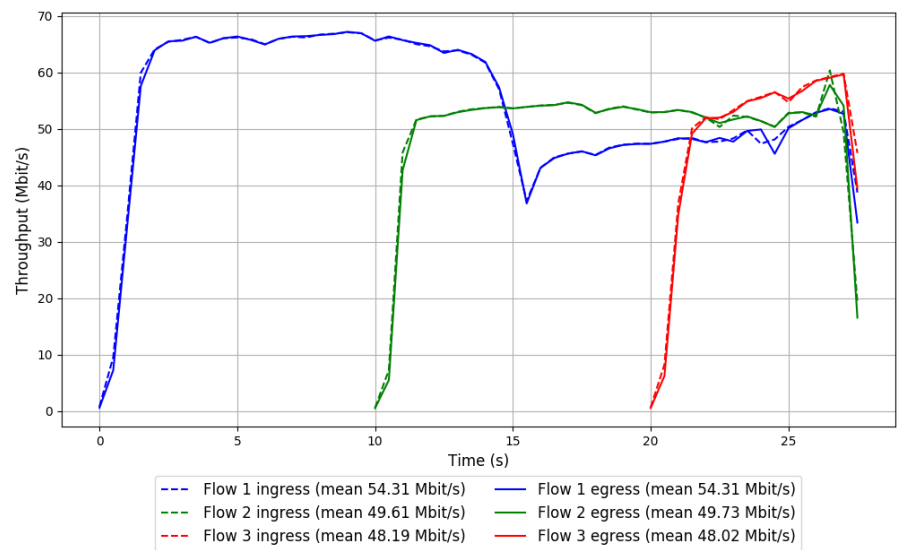
-- Flow 3:

Average throughput: 48.02 Mbit/s

95th percentile per-packet one-way delay: 49.824 ms

Loss rate: 1.63%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-03 00:16:49

End at: 2018-01-03 00:17:19

Below is generated by plot.py at 2018-01-03 04:43:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.84 Mbit/s

95th percentile per-packet one-way delay: 50.883 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 54.19 Mbit/s

95th percentile per-packet one-way delay: 50.908 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 57.73 Mbit/s

95th percentile per-packet one-way delay: 50.523 ms

Loss rate: 0.49%

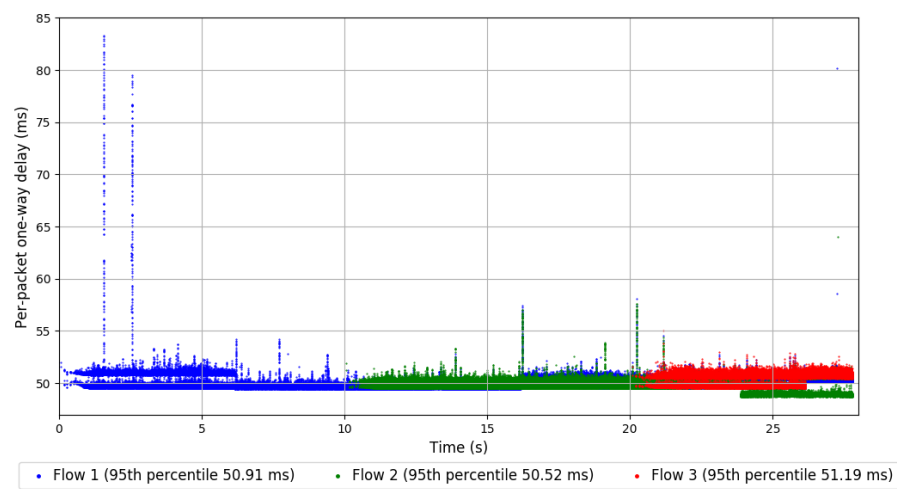
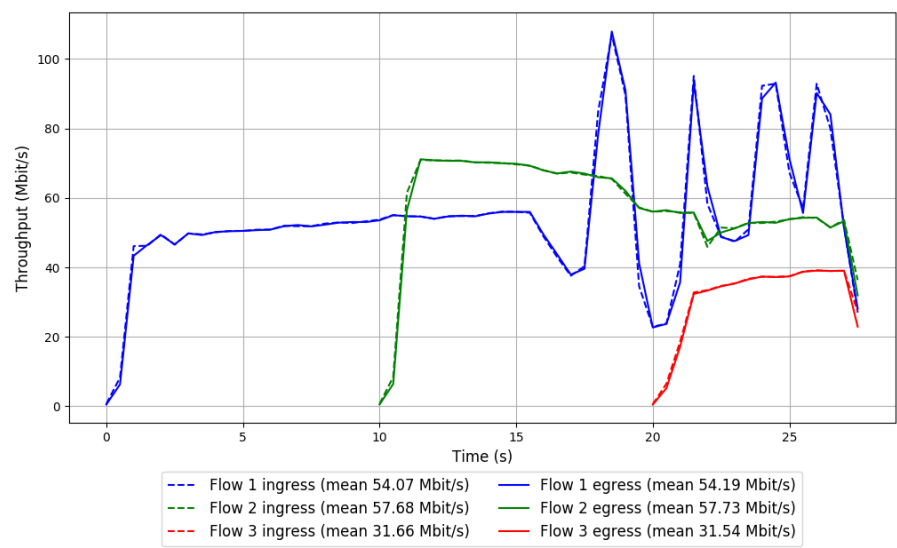
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 51.193 ms

Loss rate: 1.69%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-03 00:29:37

End at: 2018-01-03 00:30:07

Below is generated by plot.py at 2018-01-03 04:43:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.48 Mbit/s

95th percentile per-packet one-way delay: 50.977 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 37.42 Mbit/s

95th percentile per-packet one-way delay: 50.949 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 87.890 ms

Loss rate: 46.17%

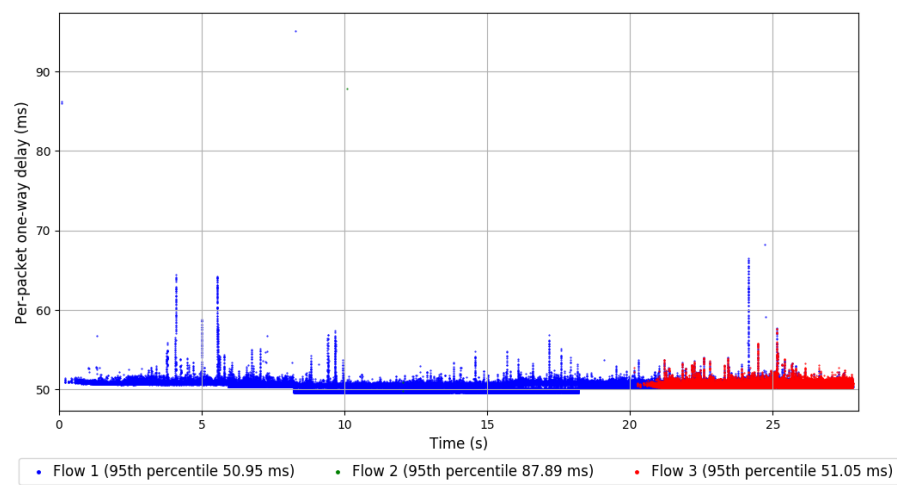
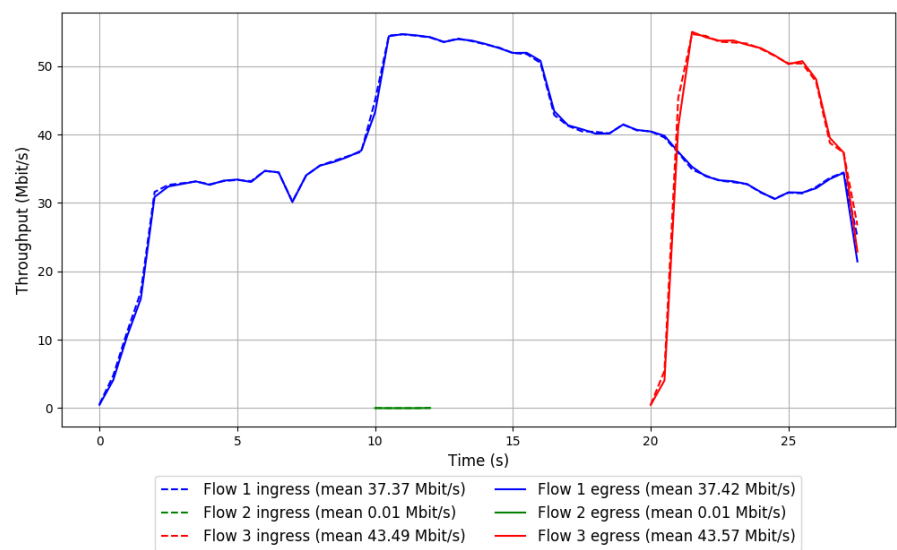
-- Flow 3:

Average throughput: 43.57 Mbit/s

95th percentile per-packet one-way delay: 51.046 ms

Loss rate: 1.13%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-03 00:42:46

End at: 2018-01-03 00:43:16

Below is generated by plot.py at 2018-01-03 04:44:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.17 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 50.645 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 50.839 ms

Loss rate: 0.82%

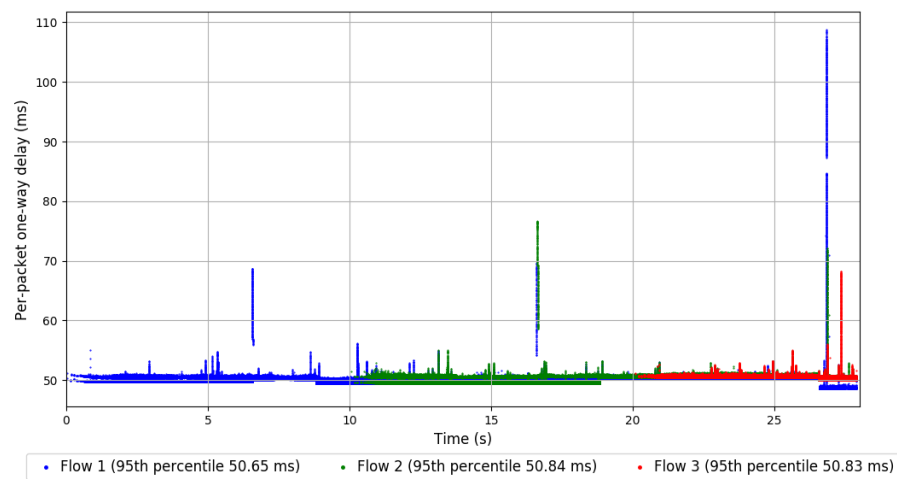
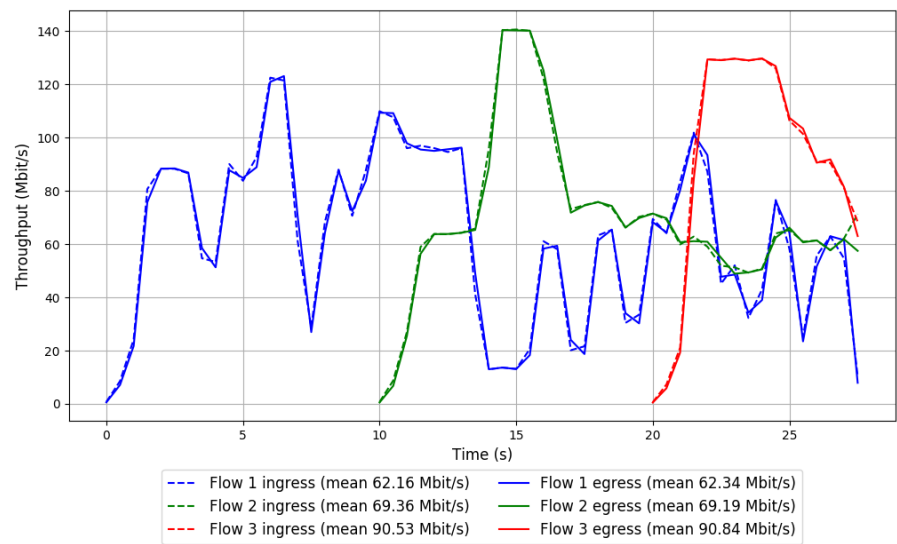
-- Flow 3:

Average throughput: 90.84 Mbit/s

95th percentile per-packet one-way delay: 50.833 ms

Loss rate: 0.93%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-03 00:57:10

End at: 2018-01-03 00:57:40

Below is generated by plot.py at 2018-01-03 04:44:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.12 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 50.399 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 50.591 ms

Loss rate: 0.60%

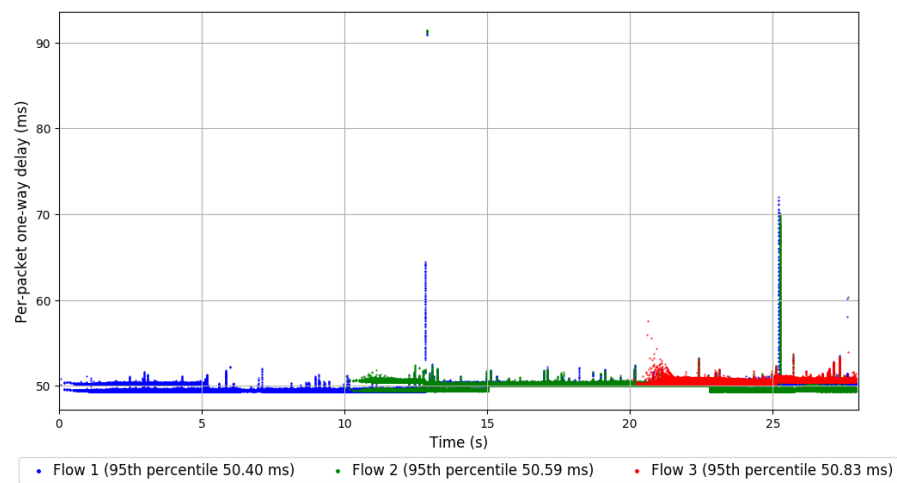
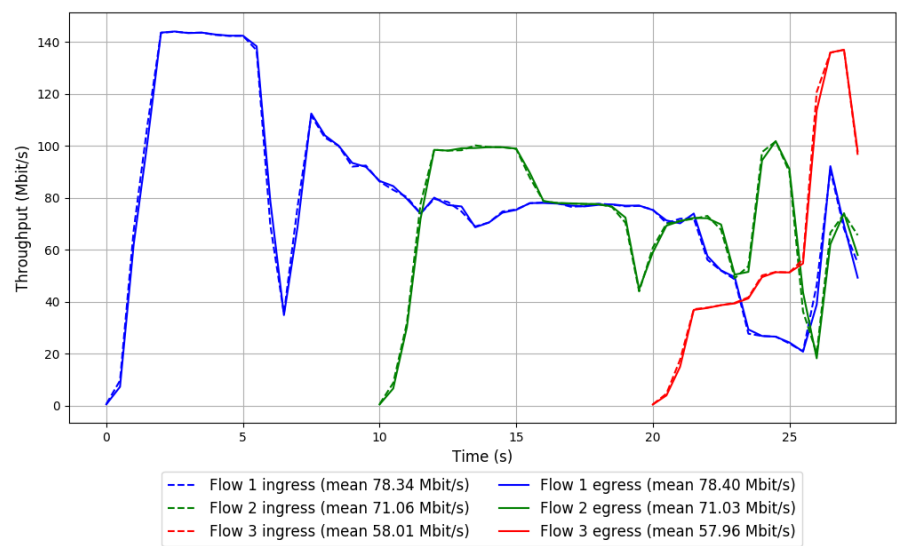
-- Flow 3:

Average throughput: 57.96 Mbit/s

95th percentile per-packet one-way delay: 50.833 ms

Loss rate: 1.36%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-03 01:11:38

End at: 2018-01-03 01:12:08

Below is generated by plot.py at 2018-01-03 04:44:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 50.827 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 92.323 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.63 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 0.45%

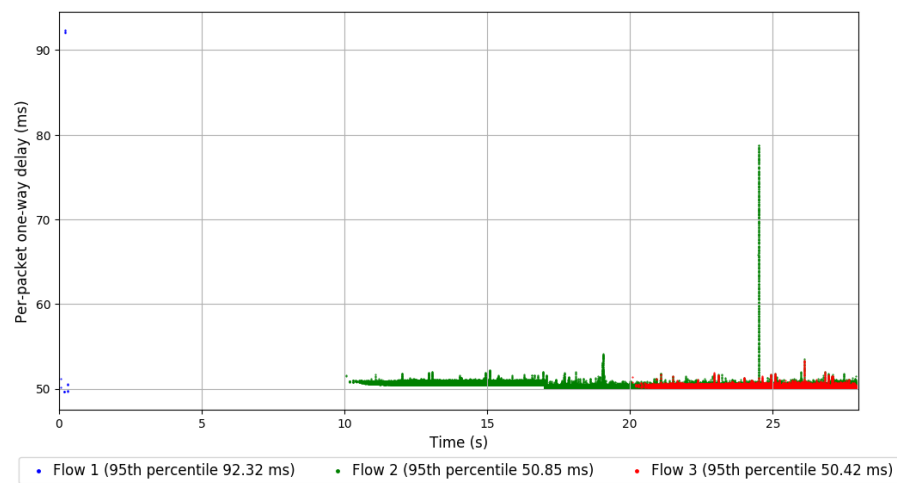
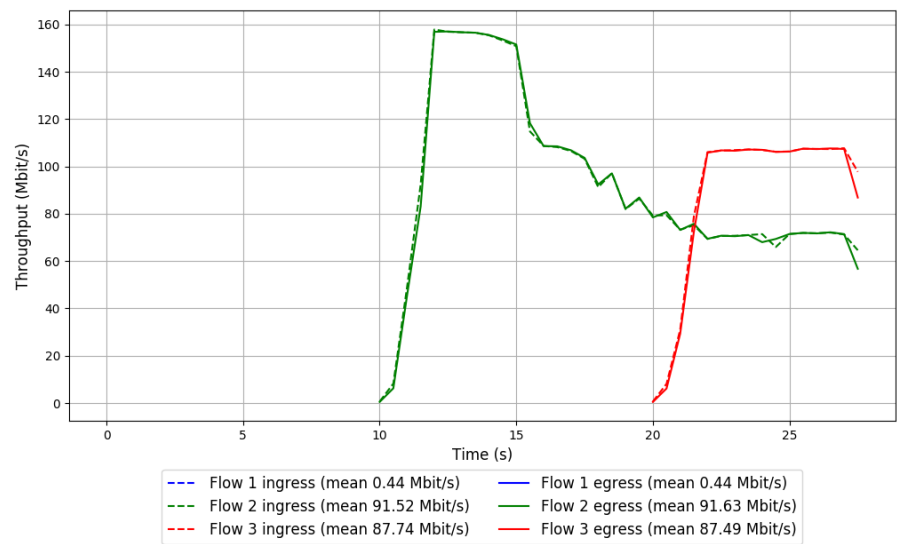
-- Flow 3:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 50.419 ms

Loss rate: 1.57%

Run 10: Report of Copa — Data Link

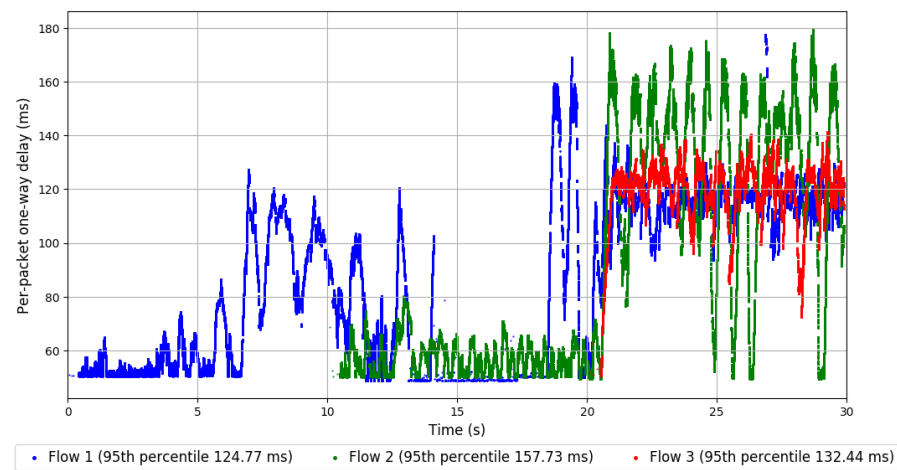
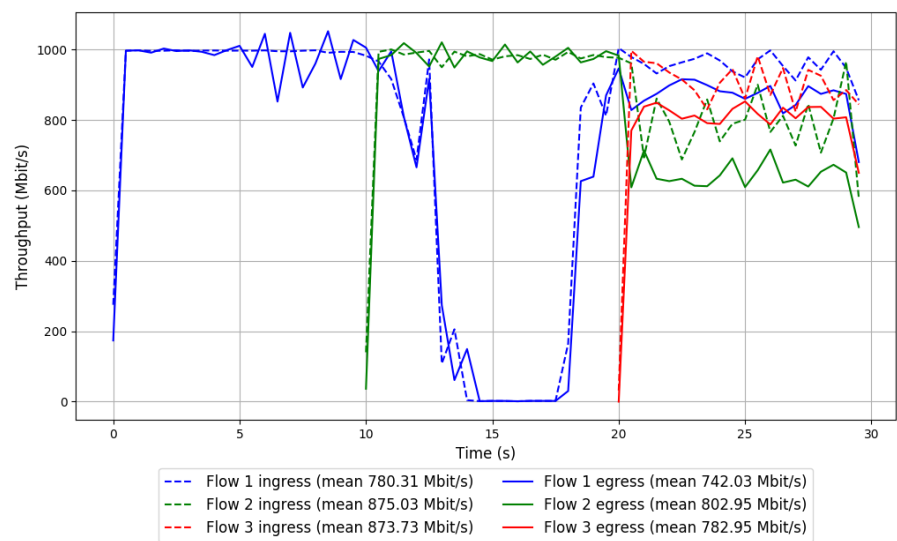


```
Run 1: Statistics of FillP

Start at: 2018-01-02 23:06:57
End at: 2018-01-02 23:07:27

# Below is generated by plot.py at 2018-01-03 05:10:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1531.95 Mbit/s
95th percentile per-packet one-way delay: 147.882 ms
Loss rate: 7.56%
-- Flow 1:
Average throughput: 742.03 Mbit/s
95th percentile per-packet one-way delay: 124.774 ms
Loss rate: 5.23%
-- Flow 2:
Average throughput: 802.95 Mbit/s
95th percentile per-packet one-way delay: 157.727 ms
Loss rate: 8.79%
-- Flow 3:
Average throughput: 782.95 Mbit/s
95th percentile per-packet one-way delay: 132.445 ms
Loss rate: 11.34%
```


Run 1: Report of FillP — Data Link

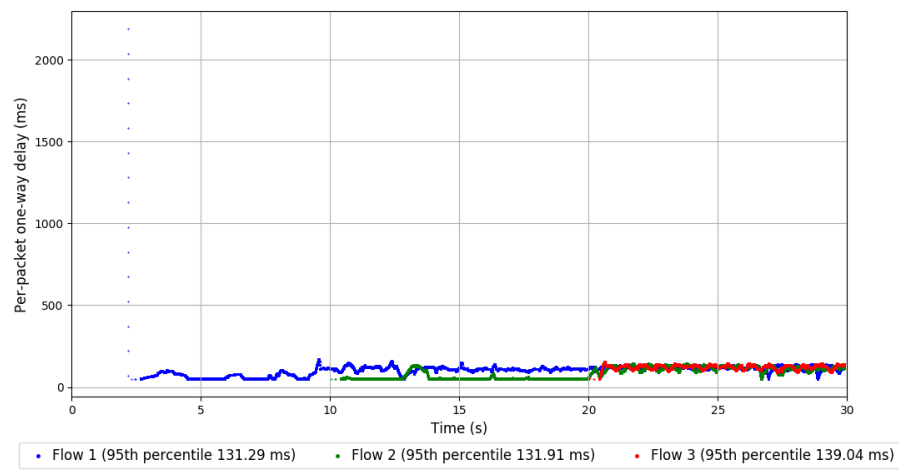
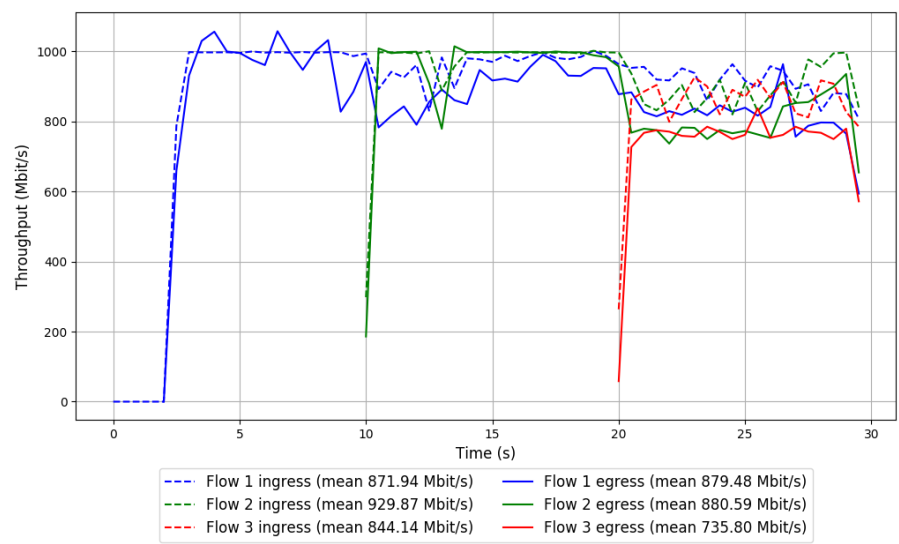


```
Run 2: Statistics of FillP

Start at: 2018-01-02 23:21:13
End at: 2018-01-02 23:21:43

# Below is generated by plot.py at 2018-01-03 05:12:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1770.43 Mbit/s
95th percentile per-packet one-way delay: 134.279 ms
Loss rate: 7.48%
-- Flow 1:
Average throughput: 879.48 Mbit/s
95th percentile per-packet one-way delay: 131.287 ms
Loss rate: 6.68%
-- Flow 2:
Average throughput: 880.59 Mbit/s
95th percentile per-packet one-way delay: 131.908 ms
Loss rate: 5.78%
-- Flow 3:
Average throughput: 735.80 Mbit/s
95th percentile per-packet one-way delay: 139.038 ms
Loss rate: 13.72%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 23:35:33

End at: 2018-01-02 23:36:03

Below is generated by plot.py at 2018-01-03 05:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1676.20 Mbit/s

95th percentile per-packet one-way delay: 148.185 ms

Loss rate: 7.63%

-- Flow 1:

Average throughput: 878.35 Mbit/s

95th percentile per-packet one-way delay: 142.548 ms

Loss rate: 5.59%

-- Flow 2:

Average throughput: 827.60 Mbit/s

95th percentile per-packet one-way delay: 150.098 ms

Loss rate: 8.40%

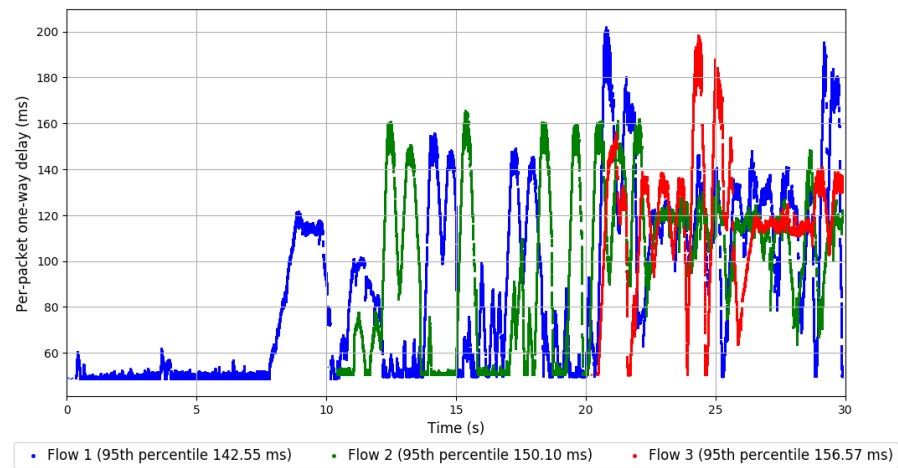
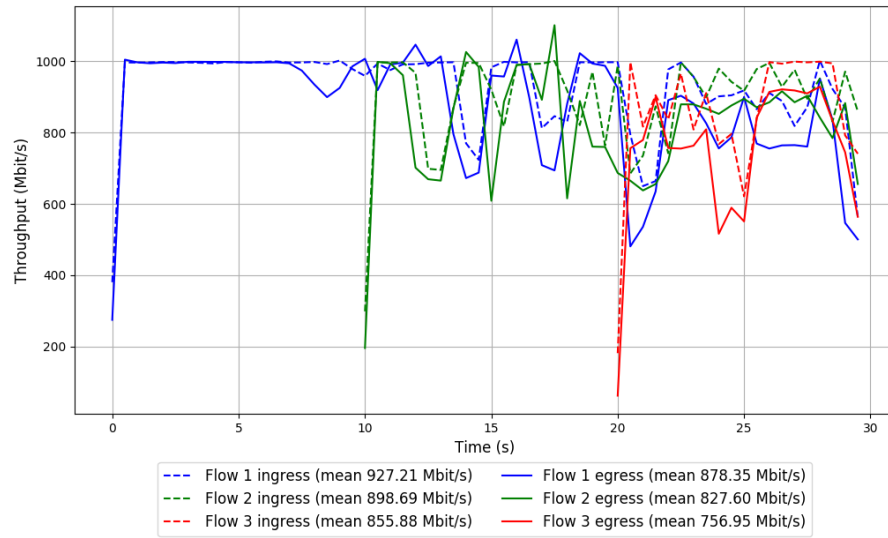
-- Flow 3:

Average throughput: 756.95 Mbit/s

95th percentile per-packet one-way delay: 156.574 ms

Loss rate: 12.66%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 23:49:50

End at: 2018-01-02 23:50:20

Below is generated by plot.py at 2018-01-03 05:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1041.55 Mbit/s

95th percentile per-packet one-way delay: 116.913 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 491.83 Mbit/s

95th percentile per-packet one-way delay: 96.180 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 407.56 Mbit/s

95th percentile per-packet one-way delay: 96.316 ms

Loss rate: 0.95%

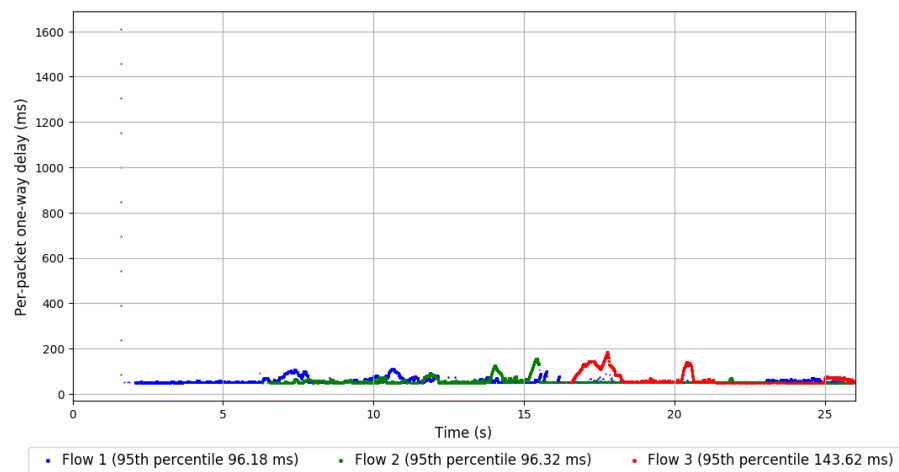
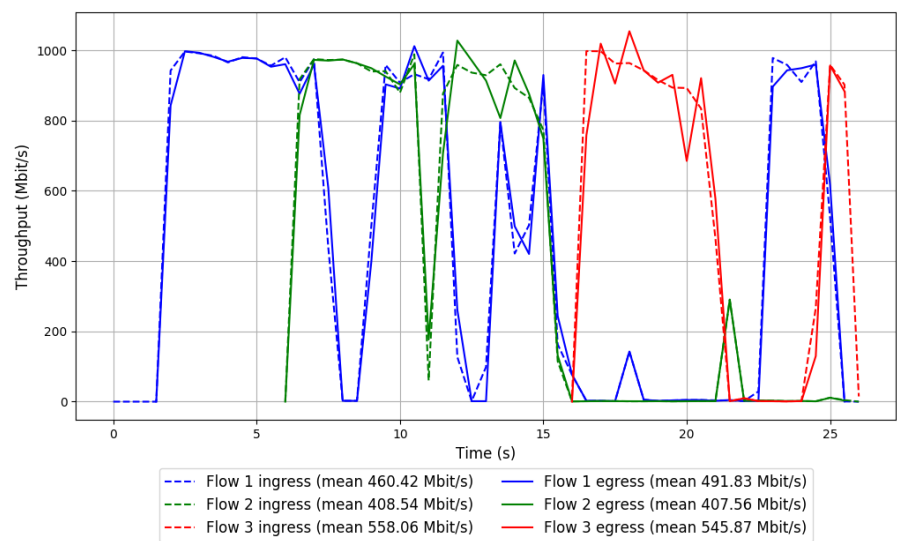
-- Flow 3:

Average throughput: 545.87 Mbit/s

95th percentile per-packet one-way delay: 143.619 ms

Loss rate: 3.18%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-03 00:03:19

End at: 2018-01-03 00:03:49

Below is generated by plot.py at 2018-01-03 05:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.61 Mbit/s

95th percentile per-packet one-way delay: 66.978 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 129.54 Mbit/s

95th percentile per-packet one-way delay: 70.755 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 151.90 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 0.00%

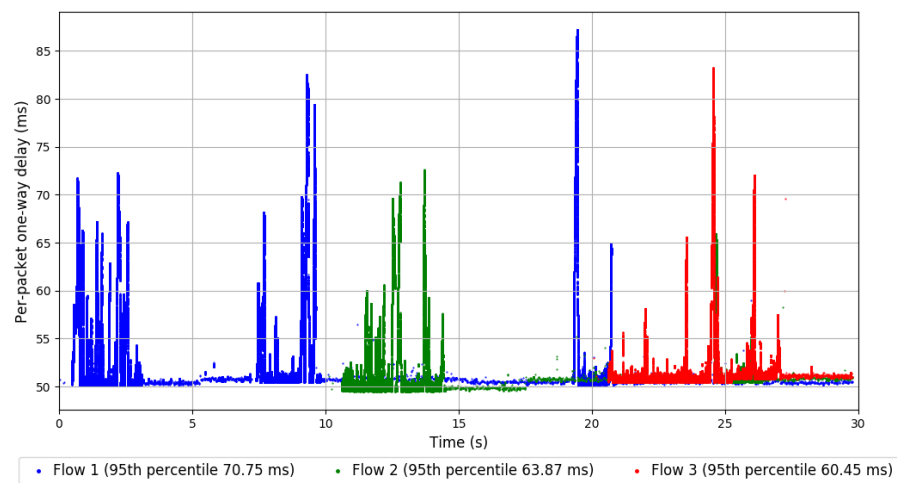
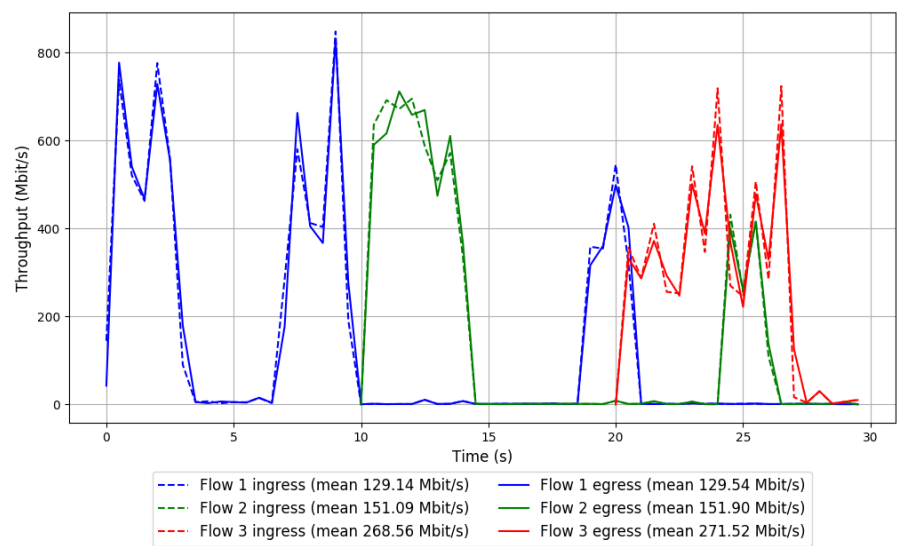
-- Flow 3:

Average throughput: 271.52 Mbit/s

95th percentile per-packet one-way delay: 60.445 ms

Loss rate: 0.02%

Run 5: Report of FillP — Data Link

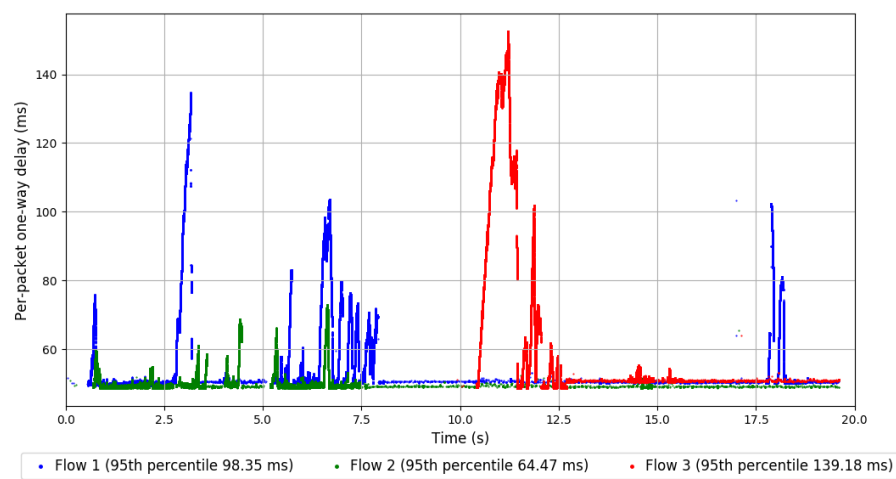
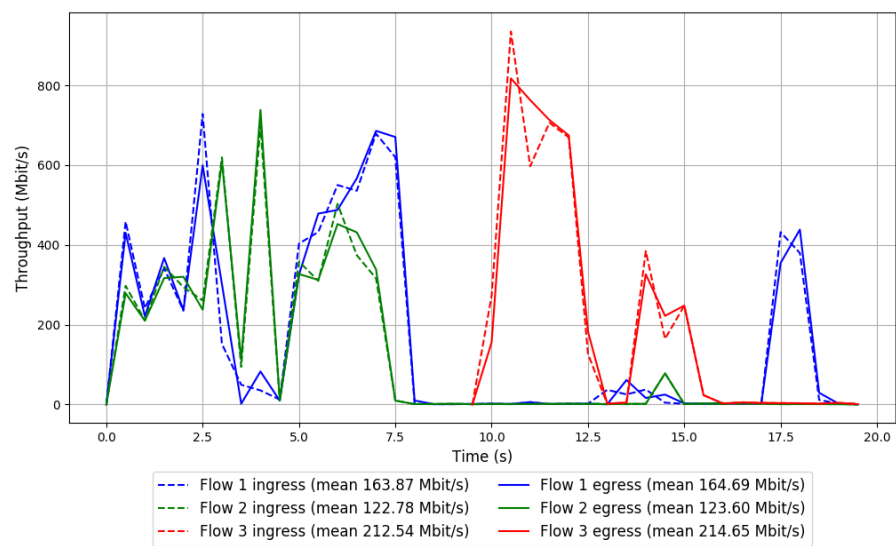


Run 6: Statistics of FillP

Start at: 2018-01-03 00:15:54

End at: 2018-01-03 00:16:24

Run 6: Report of FillP — Data Link

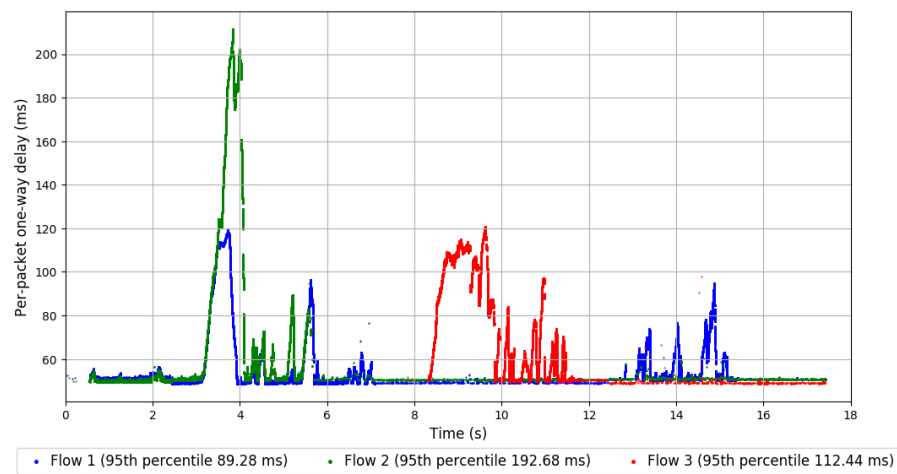
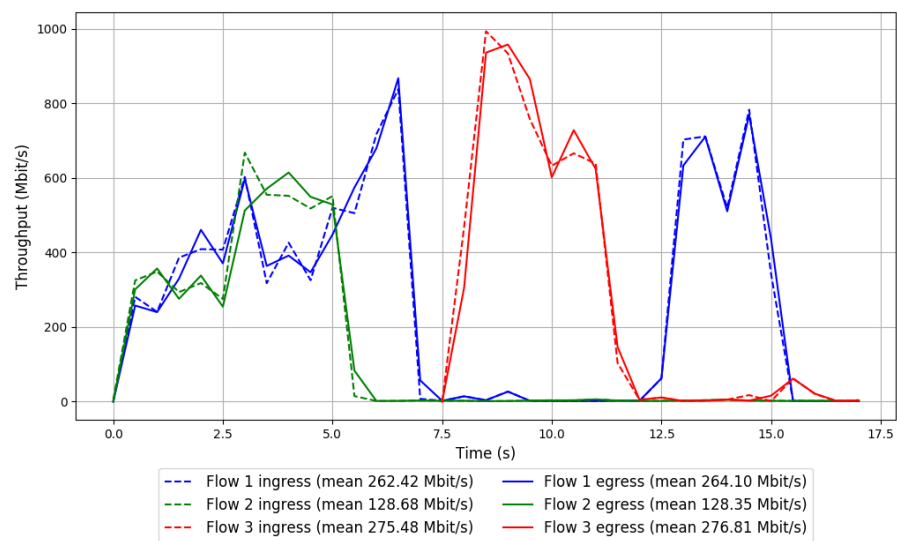


Run 7: Statistics of FillP

Start at: 2018-01-03 00:28:40

End at: 2018-01-03 00:29:10

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-03 00:41:17

End at: 2018-01-03 00:41:47

Below is generated by plot.py at 2018-01-03 05:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1150.86 Mbit/s

95th percentile per-packet one-way delay: 124.671 ms

Loss rate: 3.90%

-- Flow 1:

Average throughput: 662.62 Mbit/s

95th percentile per-packet one-way delay: 126.647 ms

Loss rate: 4.76%

-- Flow 2:

Average throughput: 447.80 Mbit/s

95th percentile per-packet one-way delay: 122.595 ms

Loss rate: 2.44%

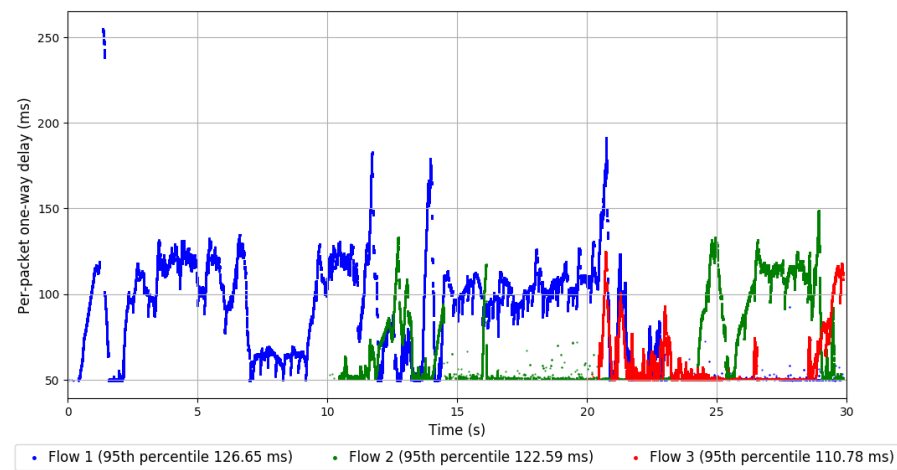
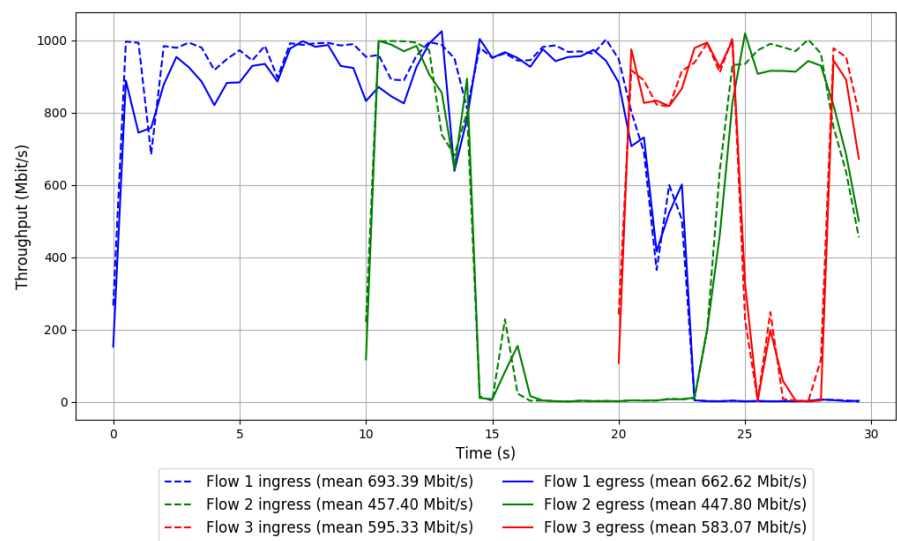
-- Flow 3:

Average throughput: 583.07 Mbit/s

95th percentile per-packet one-way delay: 110.777 ms

Loss rate: 3.08%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-03 00:55:22

End at: 2018-01-03 00:55:52

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 1558.92 Mbit/s

95th percentile per-packet one-way delay: 295.326 ms

Loss rate: 8.43%

-- Flow 1:

Average throughput: 895.01 Mbit/s

95th percentile per-packet one-way delay: 156.531 ms

Loss rate: 4.61%

-- Flow 2:

Average throughput: 718.64 Mbit/s

95th percentile per-packet one-way delay: 310.807 ms

Loss rate: 11.80%

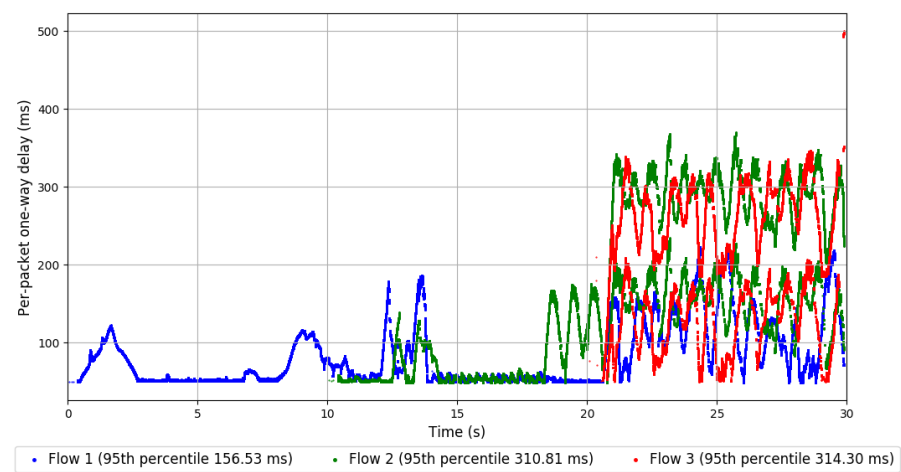
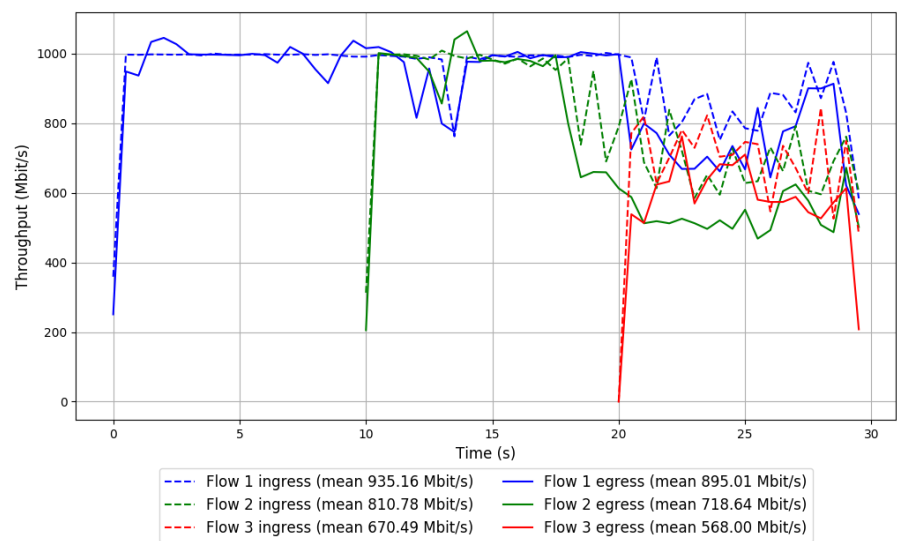
-- Flow 3:

Average throughput: 568.00 Mbit/s

95th percentile per-packet one-way delay: 314.297 ms

Loss rate: 16.33%

Run 9: Report of FillP — Data Link

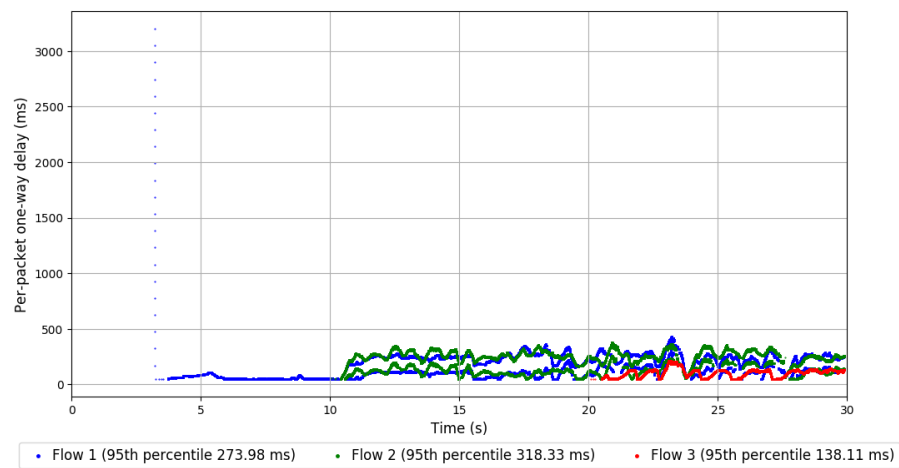
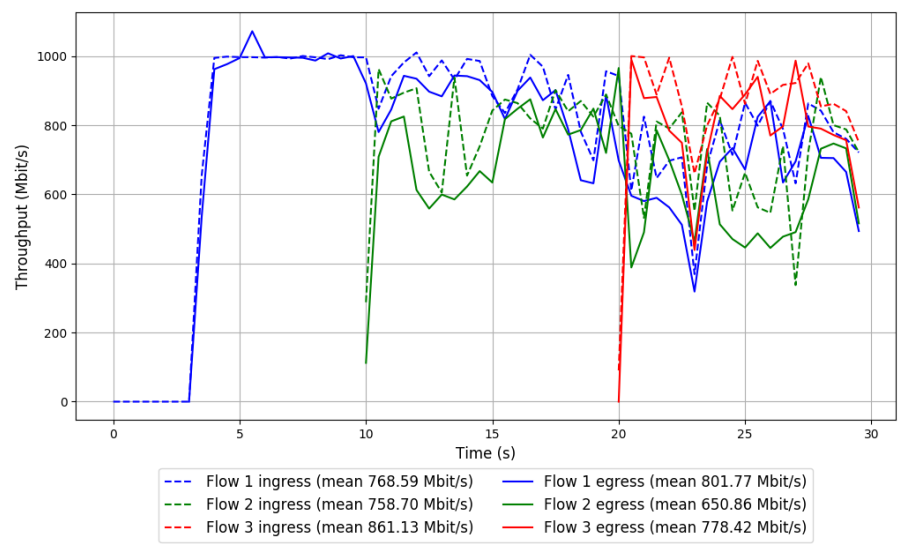


```
Run 10: Statistics of FillP

Start at: 2018-01-03 01:09:52
End at: 2018-01-03 01:10:22

# Below is generated by plot.py at 2018-01-03 05:14:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1570.58 Mbit/s
95th percentile per-packet one-way delay: 295.051 ms
Loss rate: 10.13%
-- Flow 1:
Average throughput: 801.77 Mbit/s
95th percentile per-packet one-way delay: 273.984 ms
Loss rate: 7.01%
-- Flow 2:
Average throughput: 650.86 Mbit/s
95th percentile per-packet one-way delay: 318.327 ms
Loss rate: 14.66%
-- Flow 3:
Average throughput: 778.42 Mbit/s
95th percentile per-packet one-way delay: 138.113 ms
Loss rate: 10.51%
```

Run 10: Report of FillP — Data Link

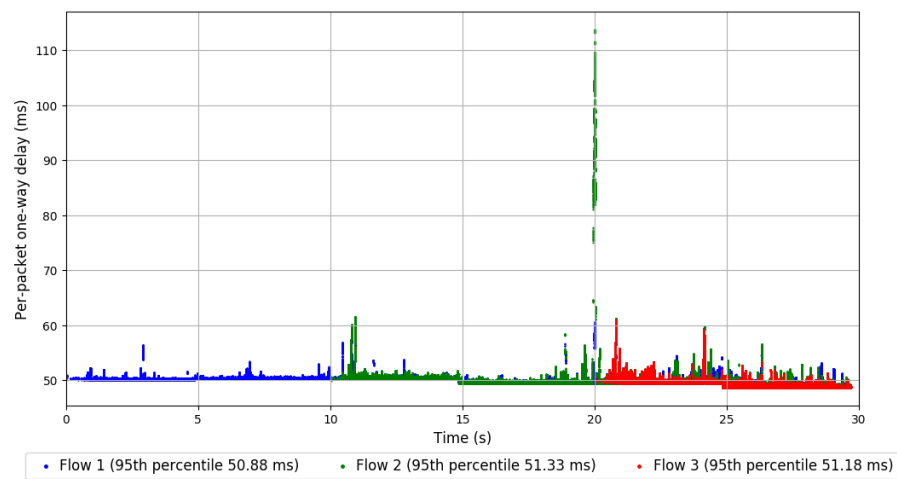
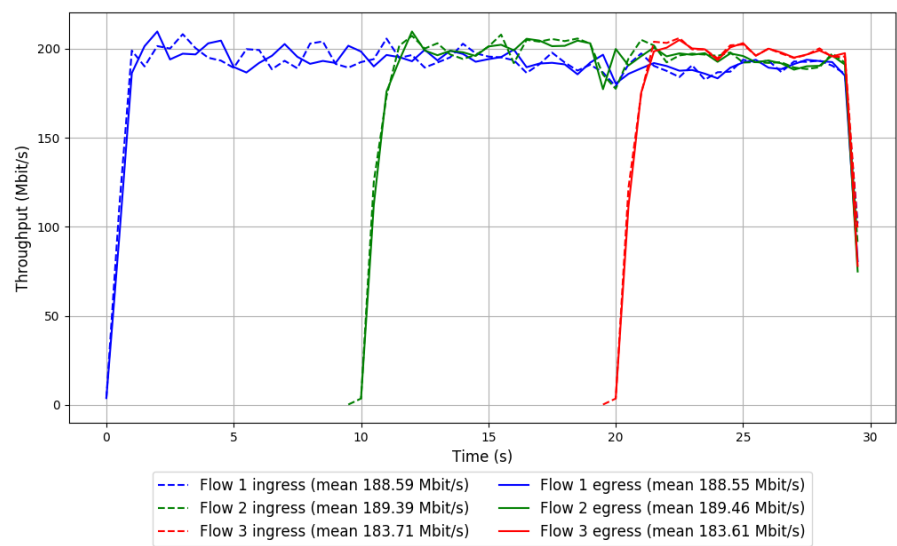


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 23:15:02
End at: 2018-01-02 23:15:32

# Below is generated by plot.py at 2018-01-03 05:14:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.97 Mbit/s
95th percentile per-packet one-way delay: 51.062 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 188.55 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 189.46 Mbit/s
95th percentile per-packet one-way delay: 51.327 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 183.61 Mbit/s
95th percentile per-packet one-way delay: 51.182 ms
Loss rate: 1.07%
```

Run 1: Report of Indigo — Data Link

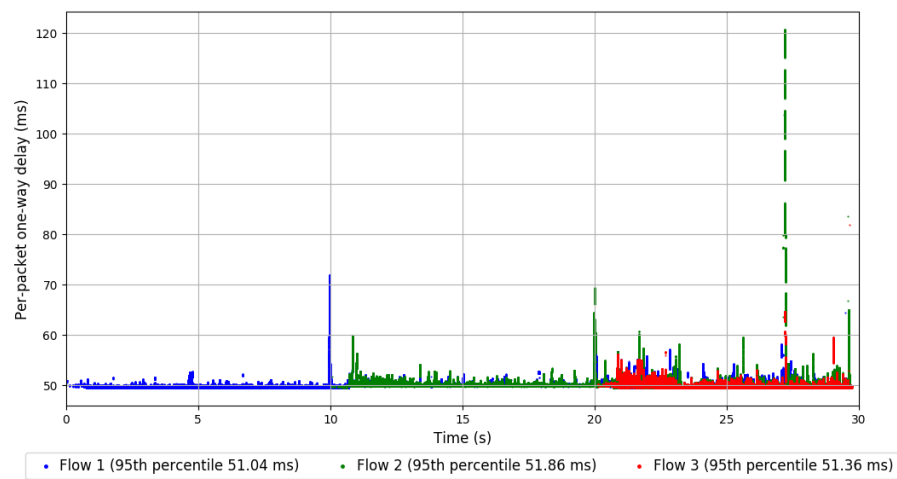
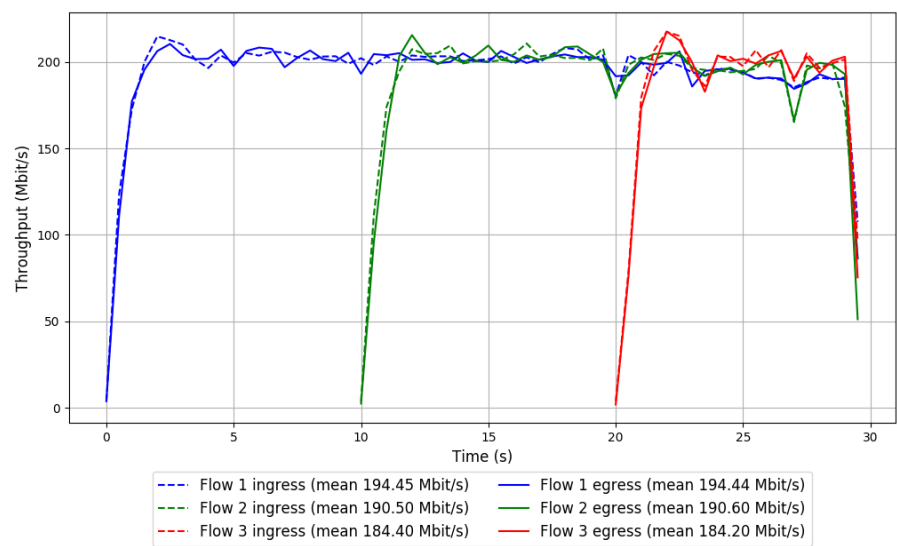


```
Run 2: Statistics of Indigo

Start at: 2018-01-02 23:29:16
End at: 2018-01-02 23:29:46

# Below is generated by plot.py at 2018-01-03 05:14:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.27 Mbit/s
95th percentile per-packet one-way delay: 51.327 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 194.44 Mbit/s
95th percentile per-packet one-way delay: 51.036 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 190.60 Mbit/s
95th percentile per-packet one-way delay: 51.857 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 184.20 Mbit/s
95th percentile per-packet one-way delay: 51.358 ms
Loss rate: 1.13%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 23:43:46

End at: 2018-01-02 23:44:16

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.02 Mbit/s

95th percentile per-packet one-way delay: 51.510 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 193.79 Mbit/s

95th percentile per-packet one-way delay: 51.244 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 188.25 Mbit/s

95th percentile per-packet one-way delay: 51.698 ms

Loss rate: 0.54%

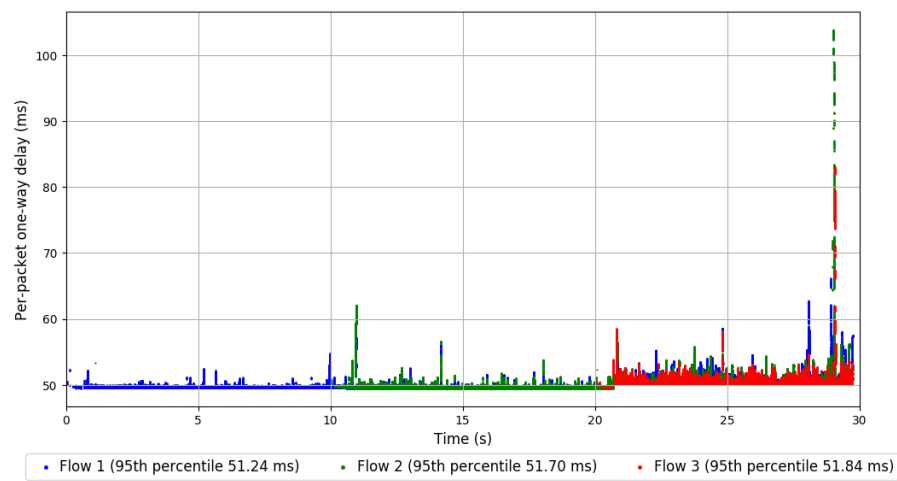
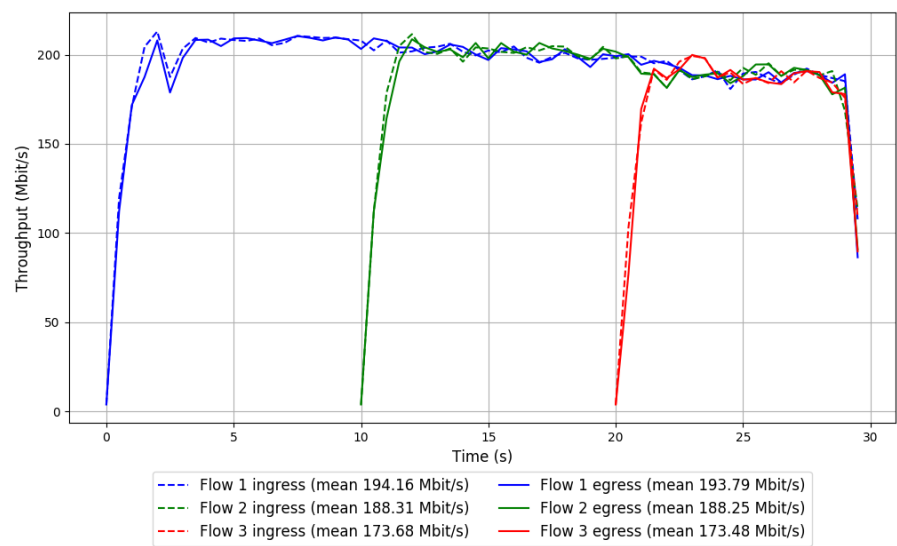
-- Flow 3:

Average throughput: 173.48 Mbit/s

95th percentile per-packet one-way delay: 51.841 ms

Loss rate: 1.16%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 23:57:22

End at: 2018-01-02 23:57:52

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.45 Mbit/s

95th percentile per-packet one-way delay: 50.057 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 142.05 Mbit/s

95th percentile per-packet one-way delay: 50.023 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 50.140 ms

Loss rate: 0.45%

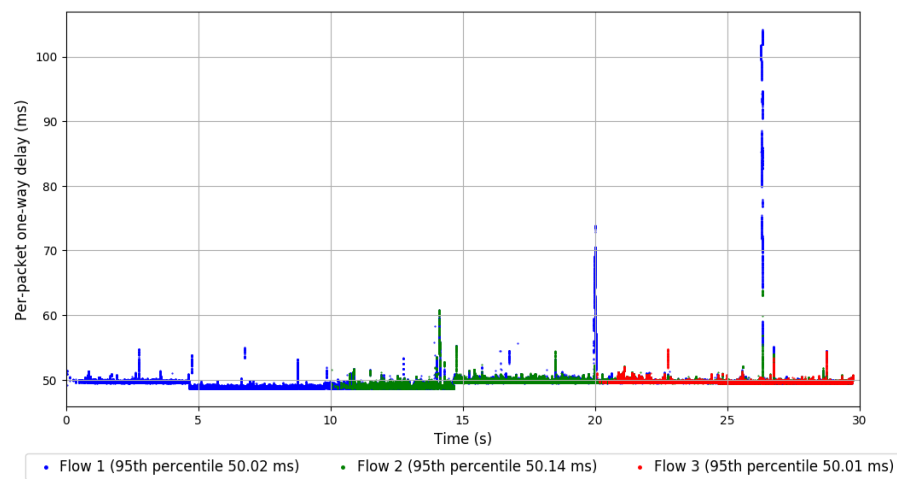
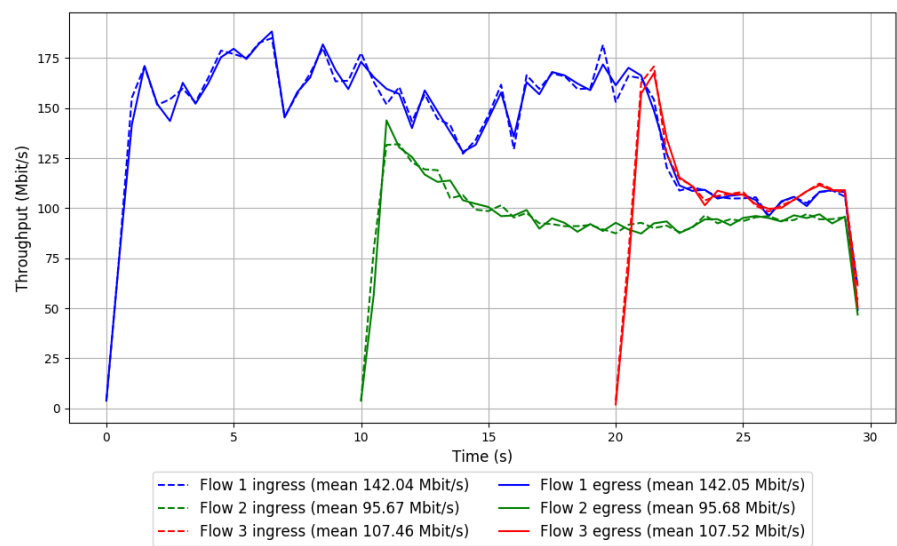
-- Flow 3:

Average throughput: 107.52 Mbit/s

95th percentile per-packet one-way delay: 50.011 ms

Loss rate: 0.99%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-03 00:10:16

End at: 2018-01-03 00:10:46

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 51.204 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 37.67 Mbit/s

95th percentile per-packet one-way delay: 51.080 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 51.320 ms

Loss rate: 1.14%

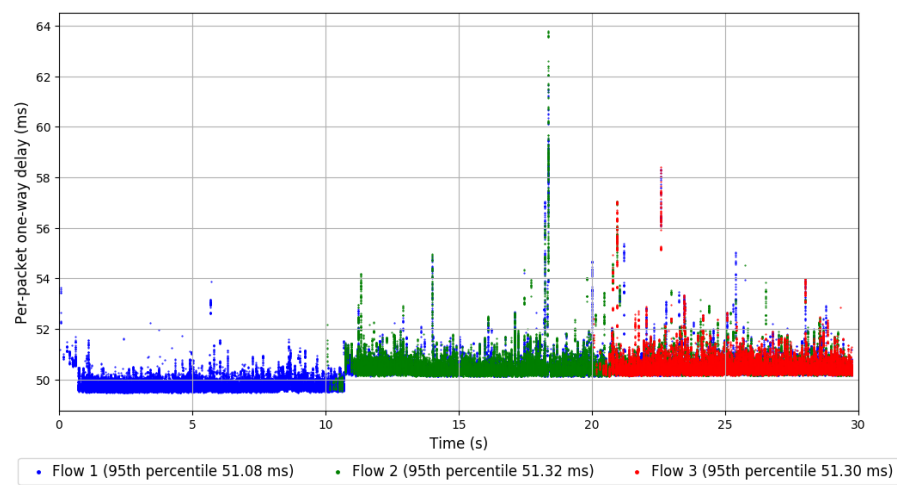
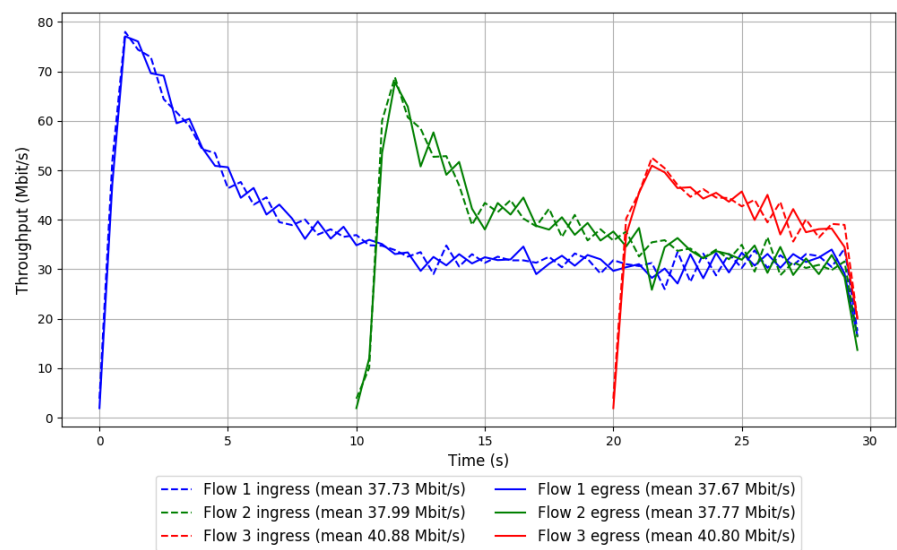
-- Flow 3:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 1.23%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-03 00:22:59

End at: 2018-01-03 00:23:29

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.40 Mbit/s

95th percentile per-packet one-way delay: 50.824 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 50.934 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 50.372 ms

Loss rate: 0.64%

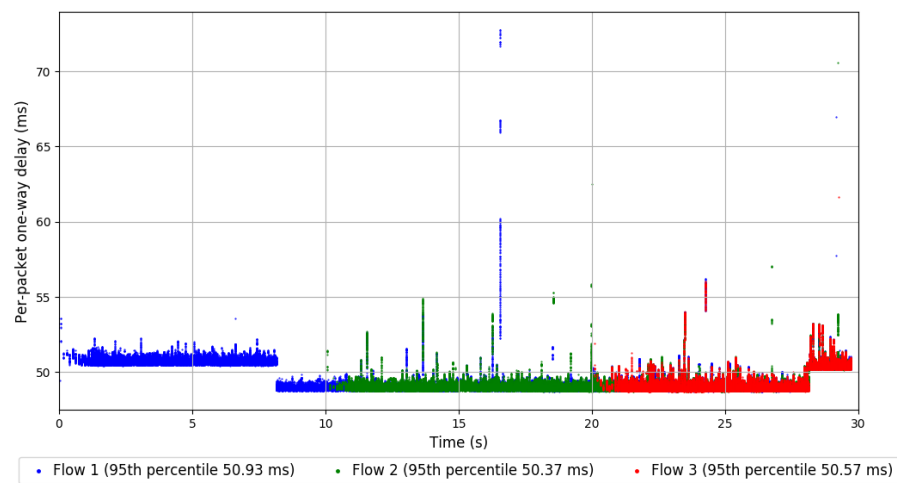
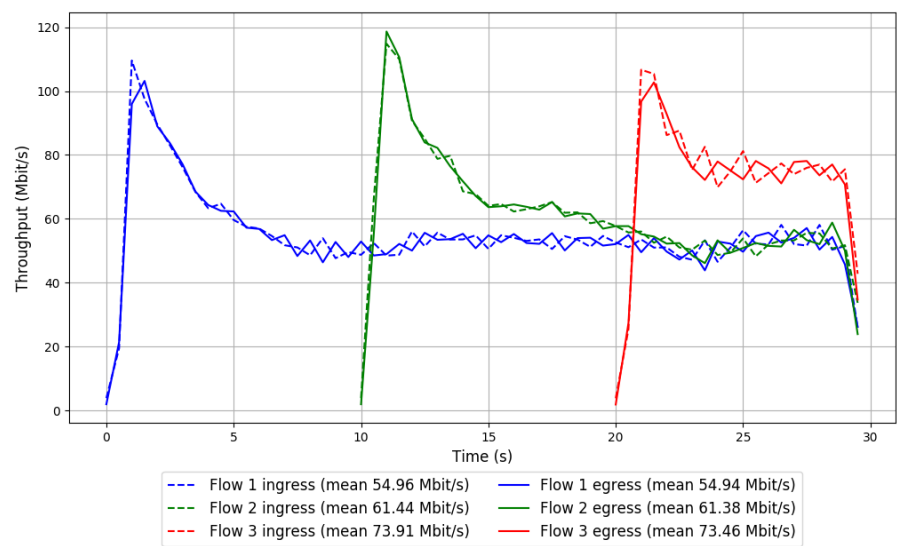
-- Flow 3:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 50.573 ms

Loss rate: 1.69%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-03 00:35:33

End at: 2018-01-03 00:36:03

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.23 Mbit/s

95th percentile per-packet one-way delay: 51.418 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 51.367 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.49%

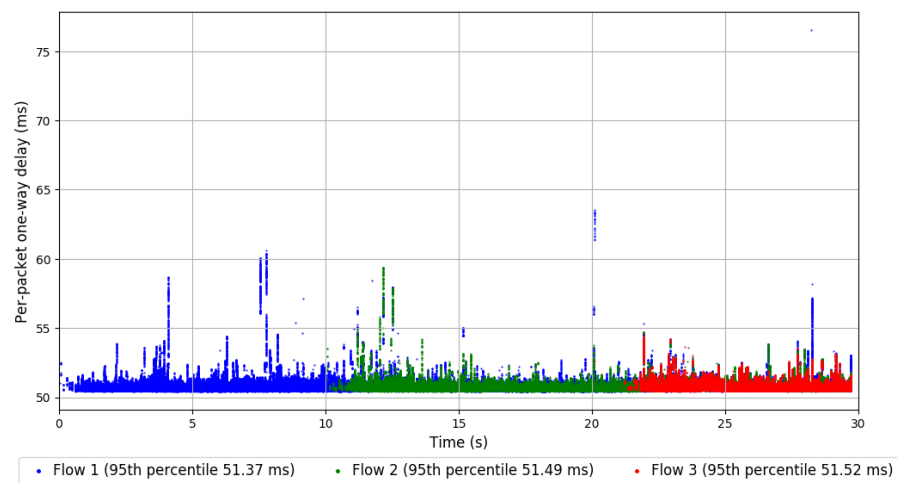
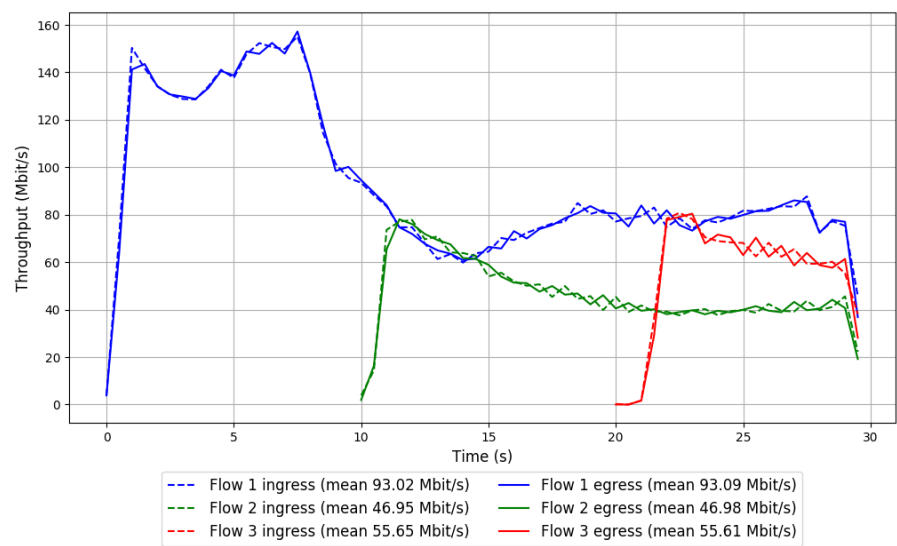
-- Flow 3:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 51.517 ms

Loss rate: 1.20%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-03 00:49:12

End at: 2018-01-03 00:49:42

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.96 Mbit/s

95th percentile per-packet one-way delay: 51.235 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 180.55 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 178.08 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.44%

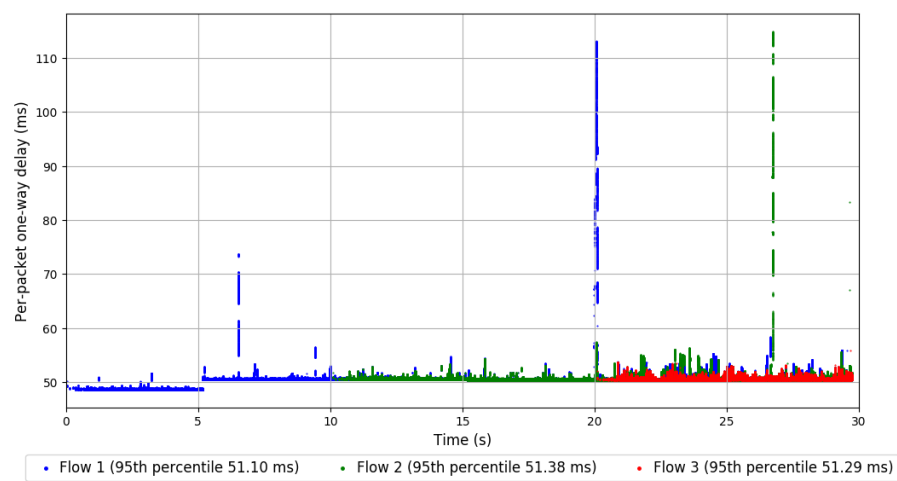
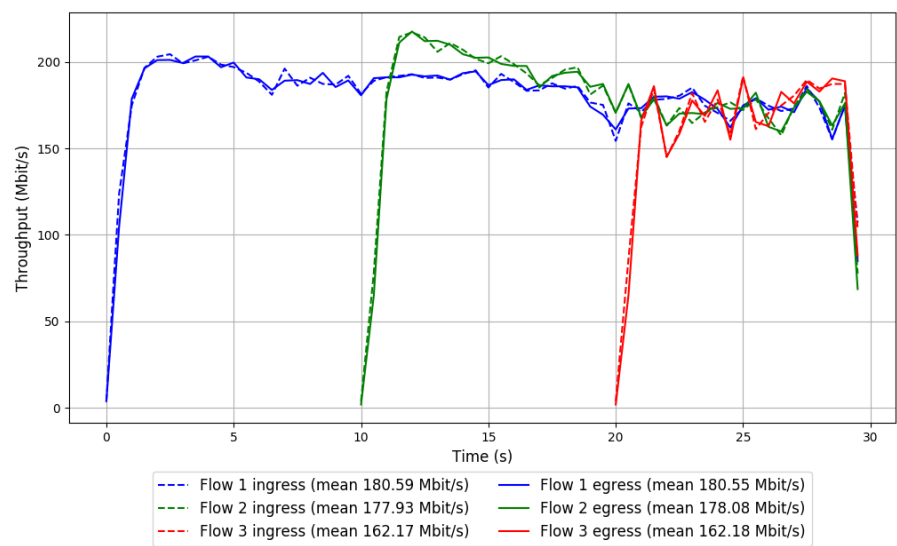
-- Flow 3:

Average throughput: 162.18 Mbit/s

95th percentile per-packet one-way delay: 51.290 ms

Loss rate: 1.04%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-03 01:03:37

End at: 2018-01-03 01:04:07

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.64 Mbit/s

95th percentile per-packet one-way delay: 51.339 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 188.51 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 184.13 Mbit/s

95th percentile per-packet one-way delay: 51.643 ms

Loss rate: 0.53%

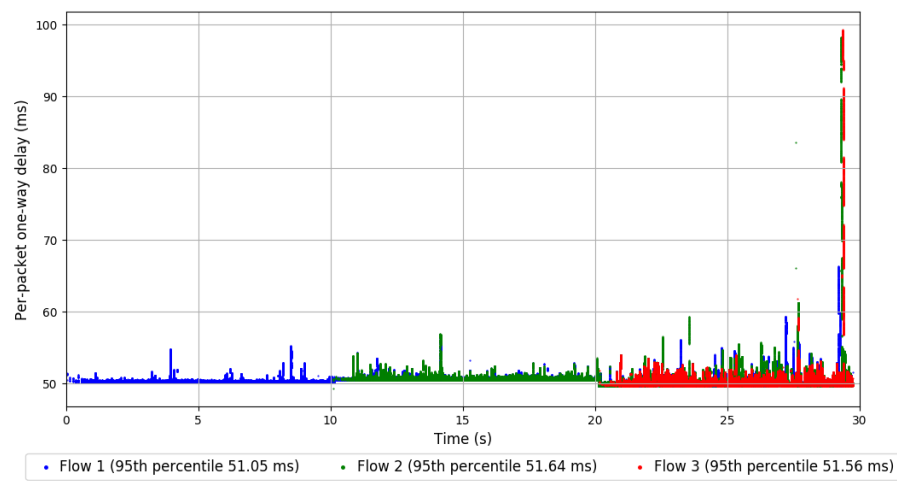
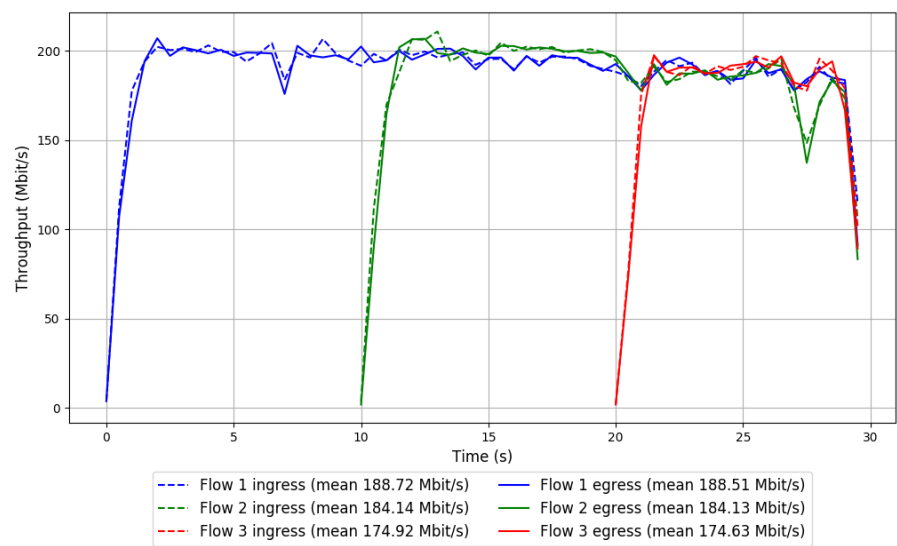
-- Flow 3:

Average throughput: 174.63 Mbit/s

95th percentile per-packet one-way delay: 51.559 ms

Loss rate: 1.21%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-03 01:17:57

End at: 2018-01-03 01:18:27

Below is generated by plot.py at 2018-01-03 05:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.03 Mbit/s

95th percentile per-packet one-way delay: 52.470 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 194.73 Mbit/s

95th percentile per-packet one-way delay: 51.969 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 188.64 Mbit/s

95th percentile per-packet one-way delay: 52.734 ms

Loss rate: 0.52%

-- Flow 3:

Average throughput: 180.98 Mbit/s

95th percentile per-packet one-way delay: 53.309 ms

Loss rate: 1.18%

Run 10: Report of Indigo — Data Link

