

Pantheon Report

Generated at 2018-01-03 06:13:55 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

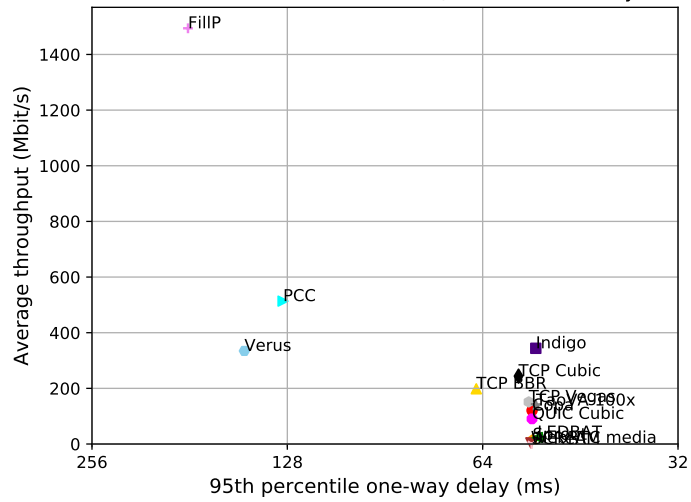
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

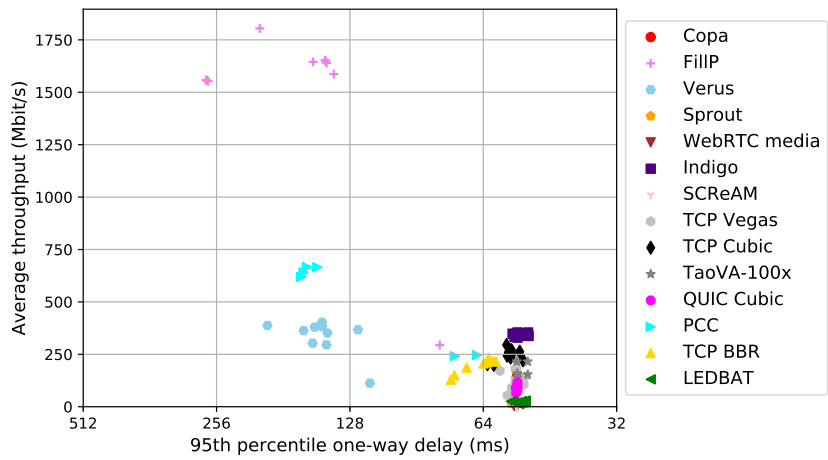
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



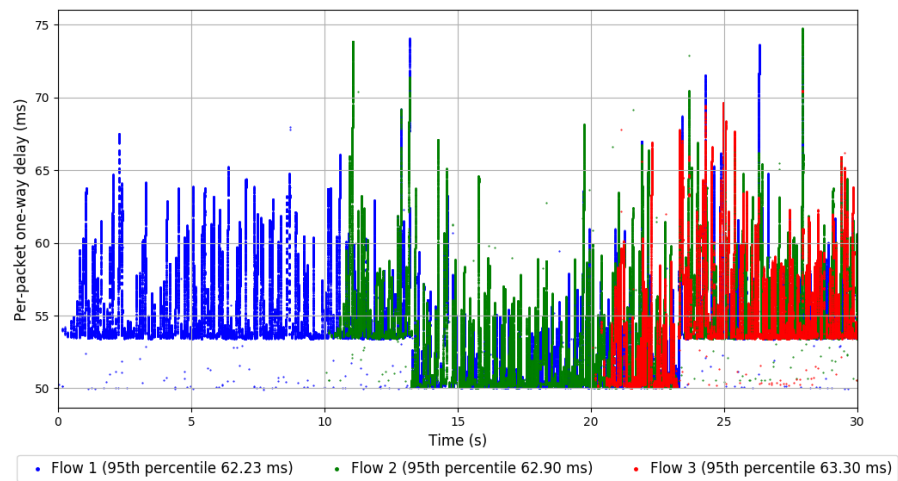
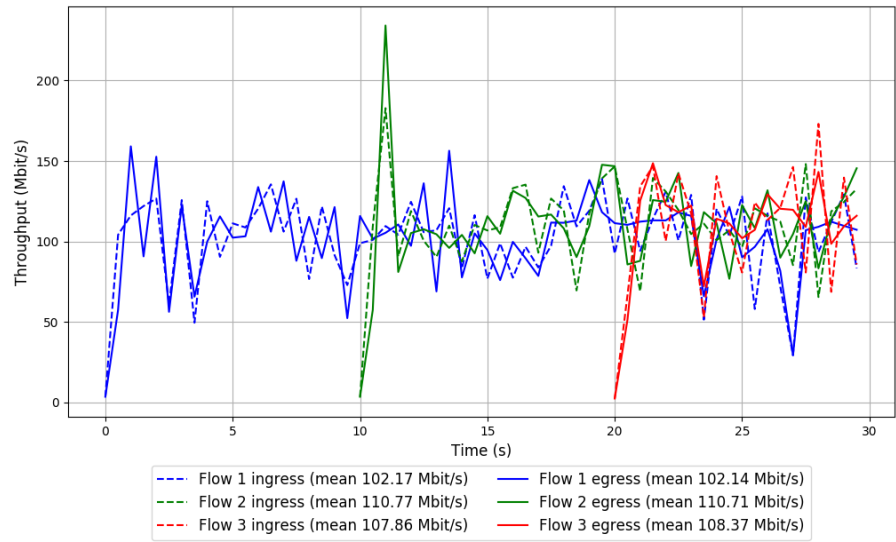
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	103.03	97.81	91.99	65.41	65.89	64.79	3.08	3.27	5.10
TCP Cubic	10	122.78	117.04	116.57	56.42	56.60	54.26	0.01	0.02	0.02
LEDBAT	10	13.50	10.41	8.92	52.77	52.42	52.27	0.22	0.30	0.47
PCC	6	478.18	40.79	25.05	129.92	129.82	107.14	5.96	7.26	6.48
QUIC Cubic	10	53.35	41.30	29.56	53.08	52.47	52.17	0.00	0.00	0.01
SCReAM	10	54.96	0.21	0.22	228.52	52.17	52.72	0.00	0.00	0.00
WebRTC media	10	2.15	1.37	0.54	53.00	53.70	52.91	0.00	0.00	0.00
Sprout	10	7.79	7.72	7.41	53.53	53.61	53.27	0.06	0.07	0.02
TaoVA-100x	8	57.88	105.15	128.86	53.09	52.73	52.59	0.01	0.00	0.01
TCP Vegas	10	67.74	93.59	64.16	53.69	55.06	53.22	0.22	0.17	0.12
Verus	10	191.47	148.53	137.67	136.59	141.02	148.97	3.54	4.25	7.34
Copa	10	71.16	56.35	46.76	53.60	56.21	53.85	0.00	4.62	4.63
FillP	10	779.53	751.62	647.60	157.41	189.40	155.87	7.82	9.92	14.95
Indigo	10	181.13	172.27	150.13	52.70	53.30	53.27	0.00	0.00	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-03 01:25:11
End at: 2018-01-03 01:25:41

# Below is generated by plot.py at 2018-01-03 04:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 211.63 Mbit/s
95th percentile per-packet one-way delay: 62.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.14 Mbit/s
95th percentile per-packet one-way delay: 62.227 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 110.71 Mbit/s
95th percentile per-packet one-way delay: 62.899 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.37 Mbit/s
95th percentile per-packet one-way delay: 63.305 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-03 01:38:42

End at: 2018-01-03 01:39:12

Below is generated by plot.py at 2018-01-03 04:54:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.81 Mbit/s

95th percentile per-packet one-way delay: 59.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 108.45 Mbit/s

95th percentile per-packet one-way delay: 60.695 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.96 Mbit/s

95th percentile per-packet one-way delay: 59.629 ms

Loss rate: 0.00%

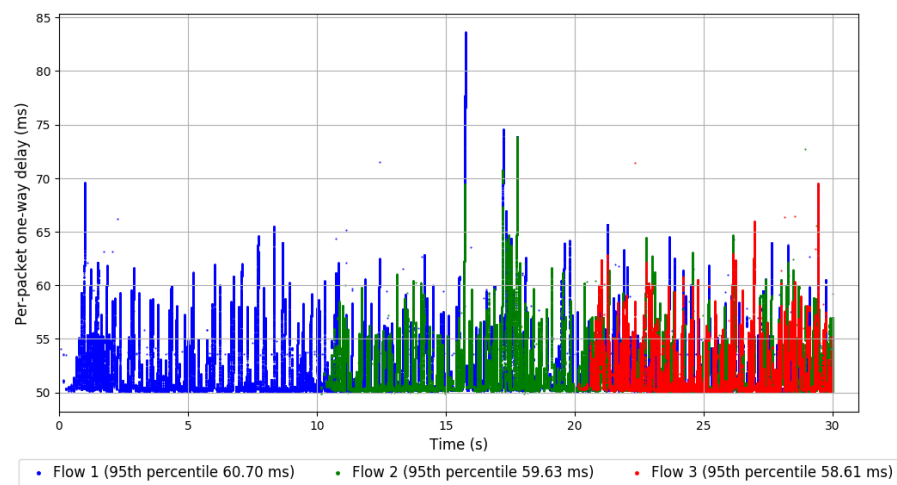
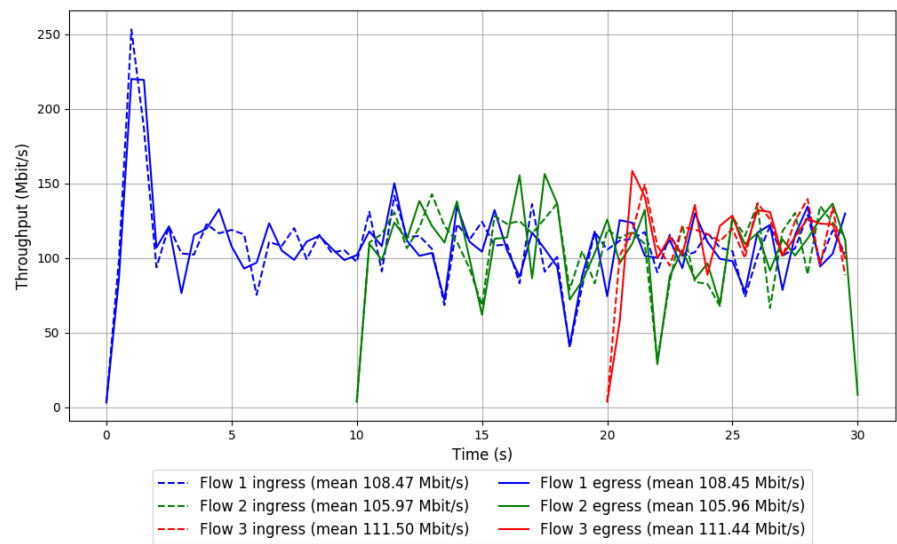
-- Flow 3:

Average throughput: 111.44 Mbit/s

95th percentile per-packet one-way delay: 58.609 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-01-03 04:54:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.12 Mbit/s

95th percentile per-packet one-way delay: 62.247 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 118.41 Mbit/s

95th percentile per-packet one-way delay: 62.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.51 Mbit/s

95th percentile per-packet one-way delay: 61.502 ms

Loss rate: 0.00%

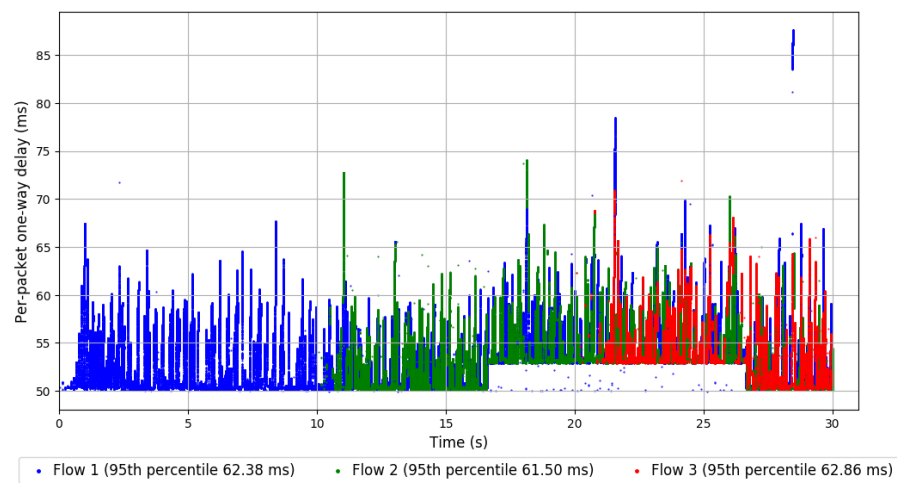
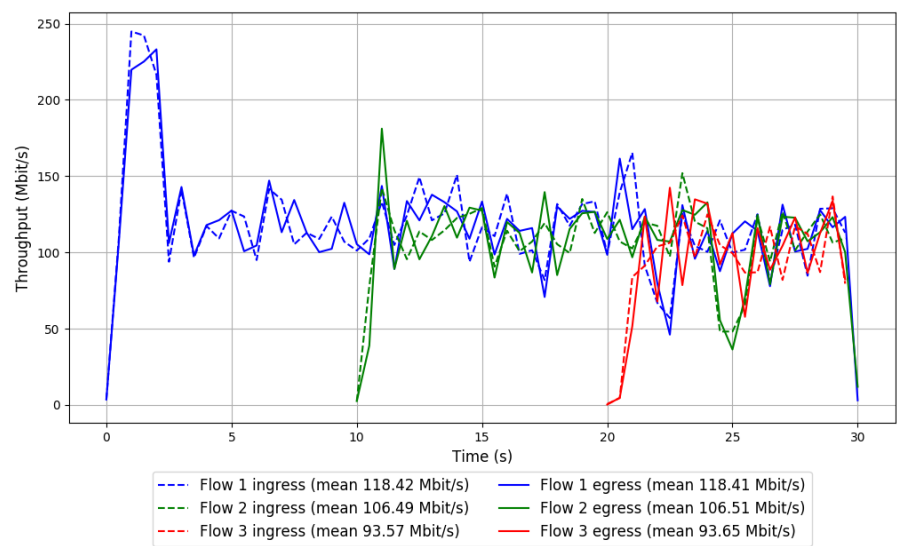
-- Flow 3:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 62.857 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-03 02:06:28

End at: 2018-01-03 02:06:58

Below is generated by plot.py at 2018-01-03 04:54:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.20 Mbit/s

95th percentile per-packet one-way delay: 62.239 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 125.03 Mbit/s

95th percentile per-packet one-way delay: 62.350 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.30 Mbit/s

95th percentile per-packet one-way delay: 62.392 ms

Loss rate: 0.00%

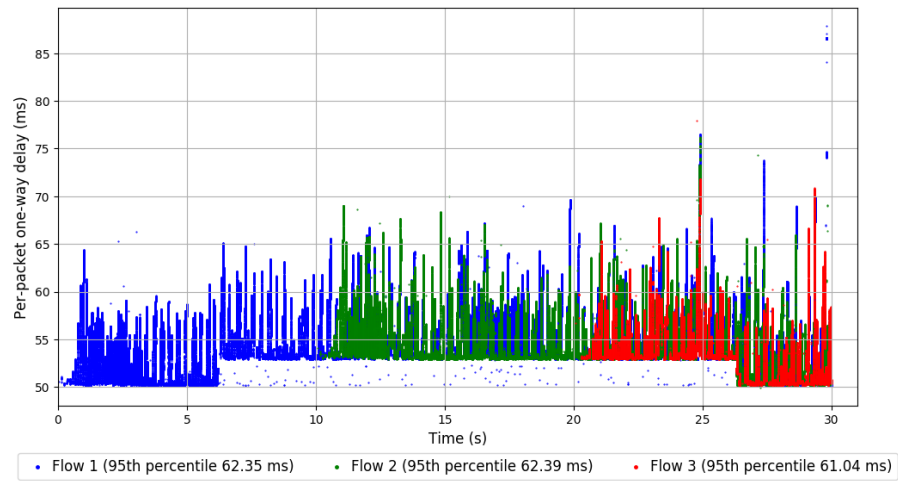
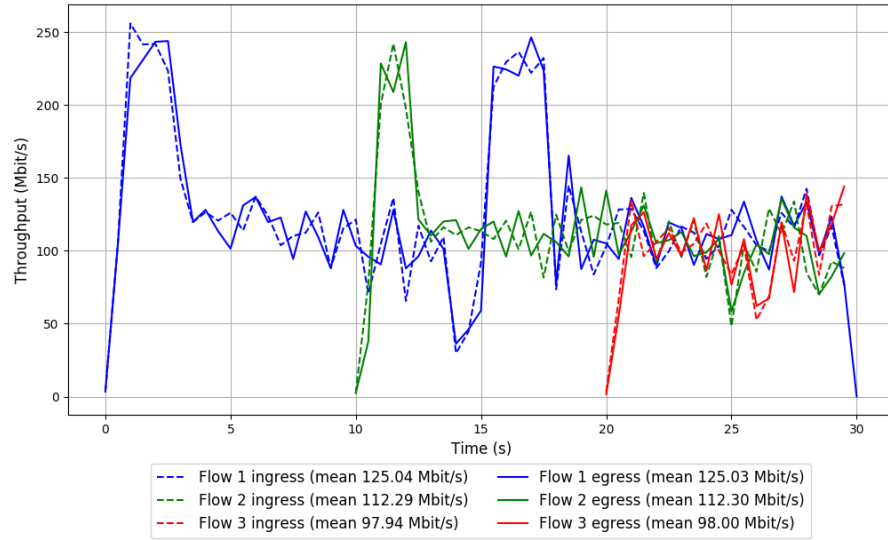
-- Flow 3:

Average throughput: 98.00 Mbit/s

95th percentile per-packet one-way delay: 61.040 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-03 02:20:29

End at: 2018-01-03 02:20:59

Below is generated by plot.py at 2018-01-03 04:54:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.56 Mbit/s

95th percentile per-packet one-way delay: 63.890 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 103.26 Mbit/s

95th percentile per-packet one-way delay: 63.009 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 104.37 Mbit/s

95th percentile per-packet one-way delay: 64.853 ms

Loss rate: 0.42%

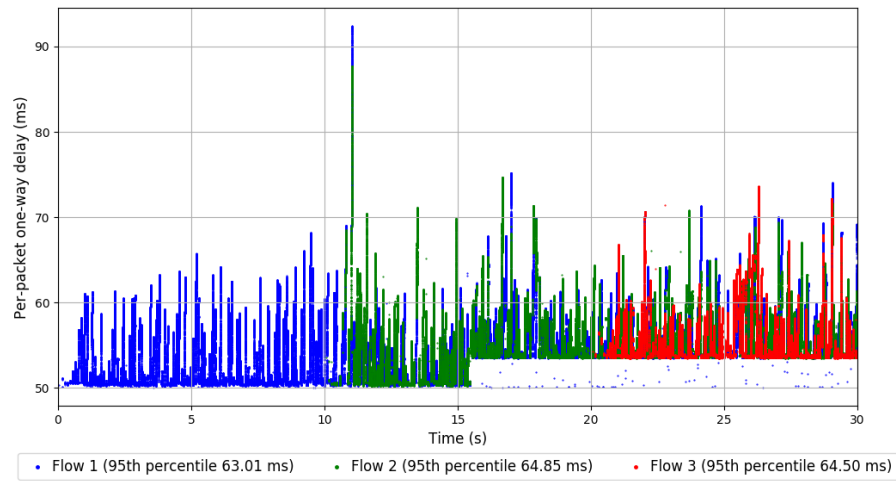
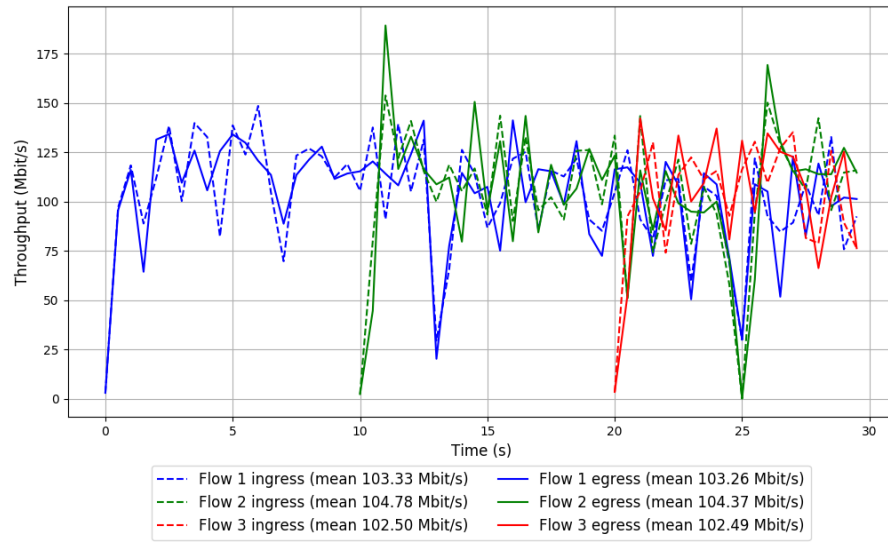
-- Flow 3:

Average throughput: 102.49 Mbit/s

95th percentile per-packet one-way delay: 64.502 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-03 02:32:43

End at: 2018-01-03 02:33:13

Below is generated by plot.py at 2018-01-03 04:54:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.31 Mbit/s

95th percentile per-packet one-way delay: 75.740 ms

Loss rate: 17.17%

-- Flow 1:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 76.396 ms

Loss rate: 18.24%

-- Flow 2:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 75.267 ms

Loss rate: 12.91%

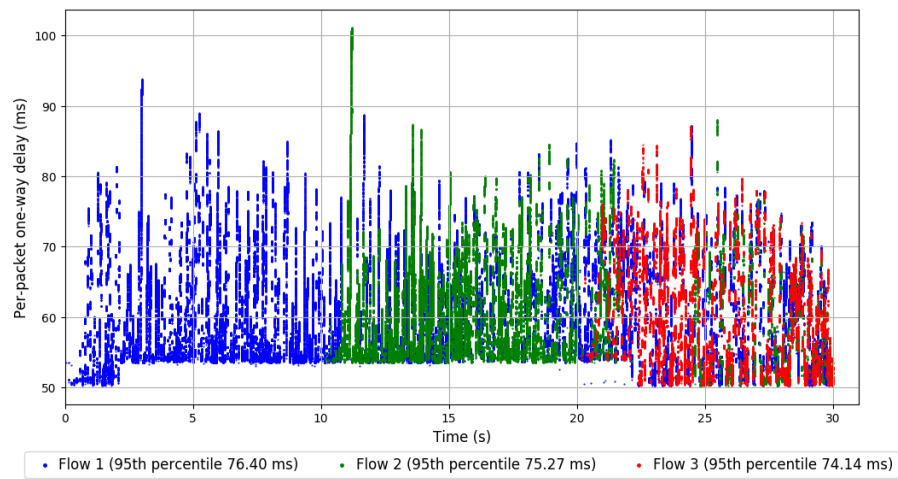
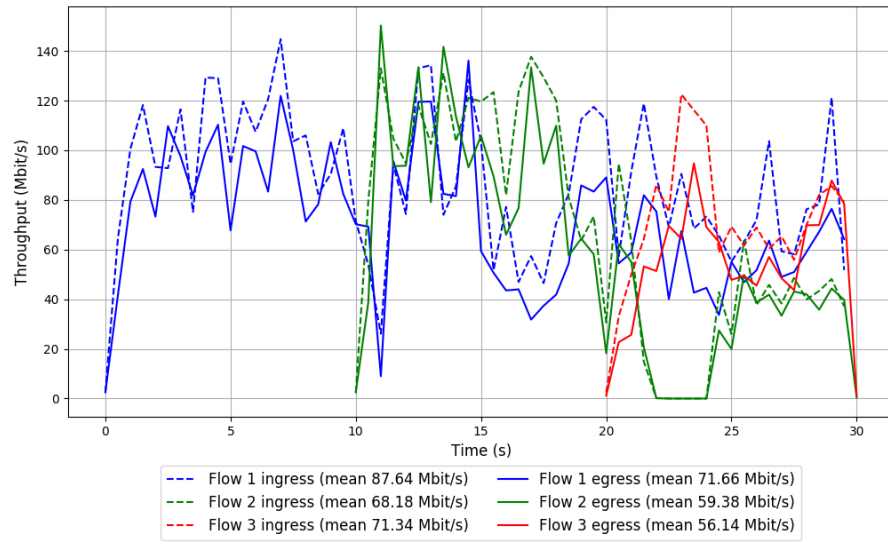
-- Flow 3:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 74.139 ms

Loss rate: 21.39%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-03 02:46:12

End at: 2018-01-03 02:46:42

Below is generated by plot.py at 2018-01-03 04:54:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.55 Mbit/s

95th percentile per-packet one-way delay: 62.870 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 110.99 Mbit/s

95th percentile per-packet one-way delay: 61.803 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 107.87 Mbit/s

95th percentile per-packet one-way delay: 63.975 ms

Loss rate: 0.00%

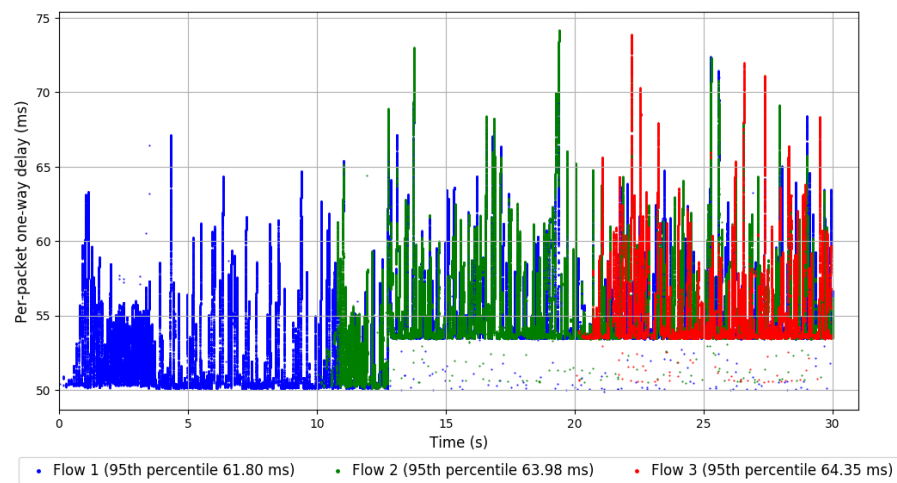
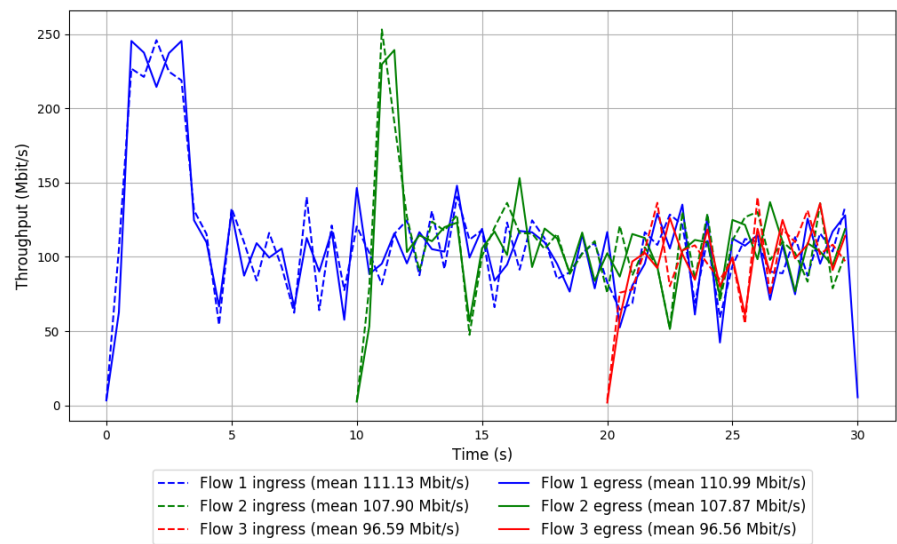
-- Flow 3:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 64.347 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-03 02:59:57

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

Below is generated by plot.py at 2018-01-03 04:54:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.78 Mbit/s

95th percentile per-packet one-way delay: 60.945 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 108.21 Mbit/s

95th percentile per-packet one-way delay: 61.599 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.53 Mbit/s

95th percentile per-packet one-way delay: 59.993 ms

Loss rate: 0.00%

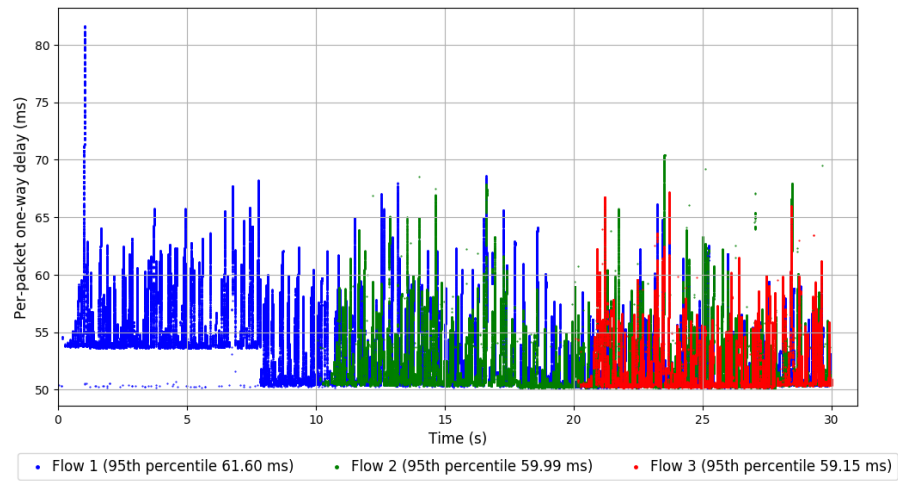
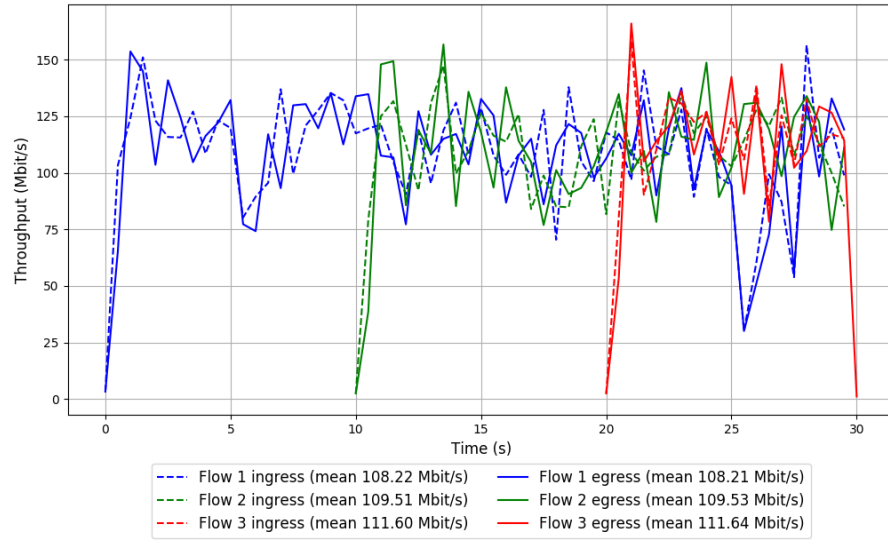
-- Flow 3:

Average throughput: 111.64 Mbit/s

95th percentile per-packet one-way delay: 59.153 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

End at: 2018-01-03 03:14:30

Below is generated by plot.py at 2018-01-03 04:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.73 Mbit/s

95th percentile per-packet one-way delay: 74.341 ms

Loss rate: 11.46%

-- Flow 1:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 74.997 ms

Loss rate: 8.67%

-- Flow 2:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 74.362 ms

Loss rate: 13.65%

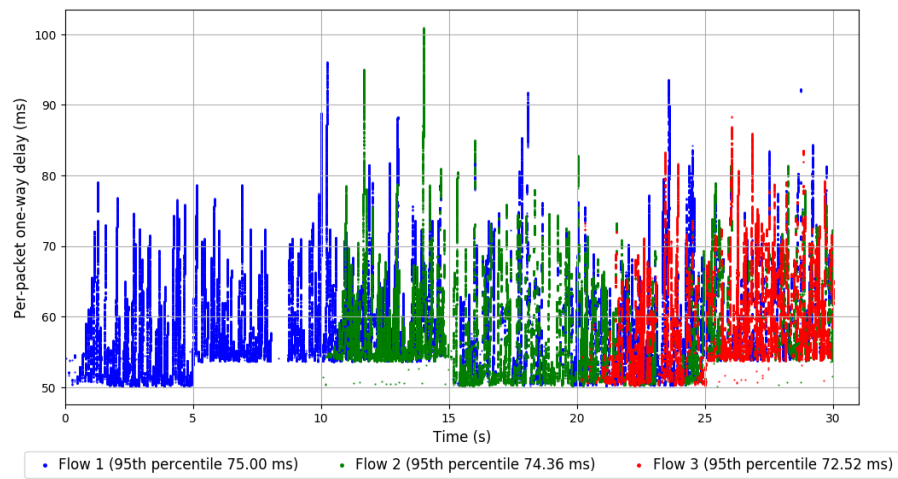
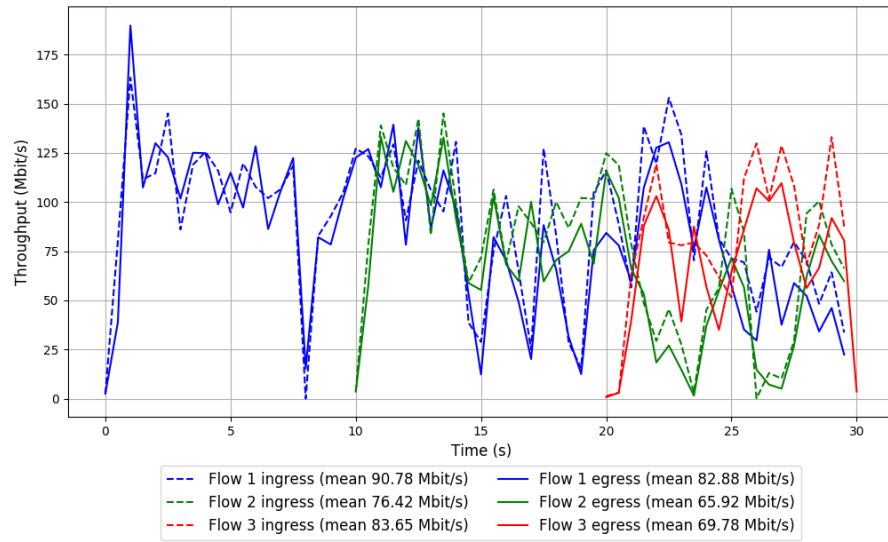
-- Flow 3:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 72.517 ms

Loss rate: 16.56%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-03 03:27:35

End at: 2018-01-03 03:28:05

Below is generated by plot.py at 2018-01-03 04:57:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.54 Mbit/s

95th percentile per-packet one-way delay: 69.817 ms

Loss rate: 5.72%

-- Flow 1:

Average throughput: 99.22 Mbit/s

95th percentile per-packet one-way delay: 68.639 ms

Loss rate: 3.78%

-- Flow 2:

Average throughput: 95.53 Mbit/s

95th percentile per-packet one-way delay: 74.005 ms

Loss rate: 5.75%

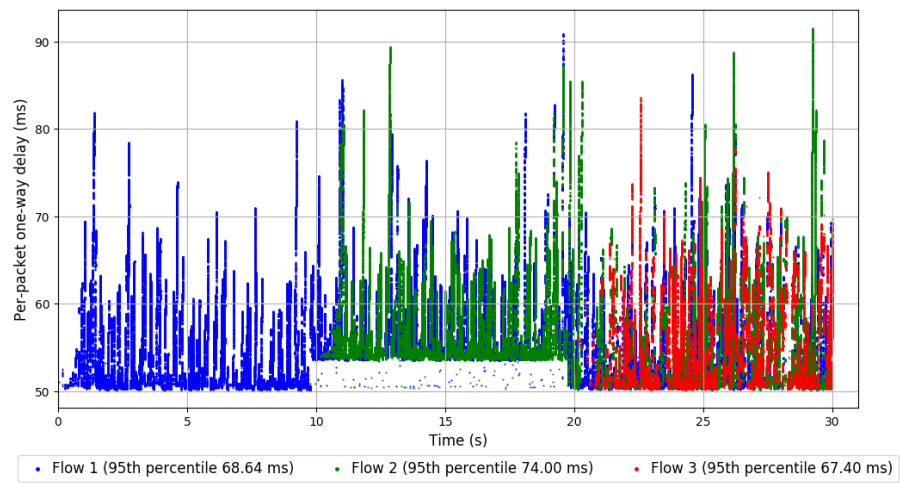
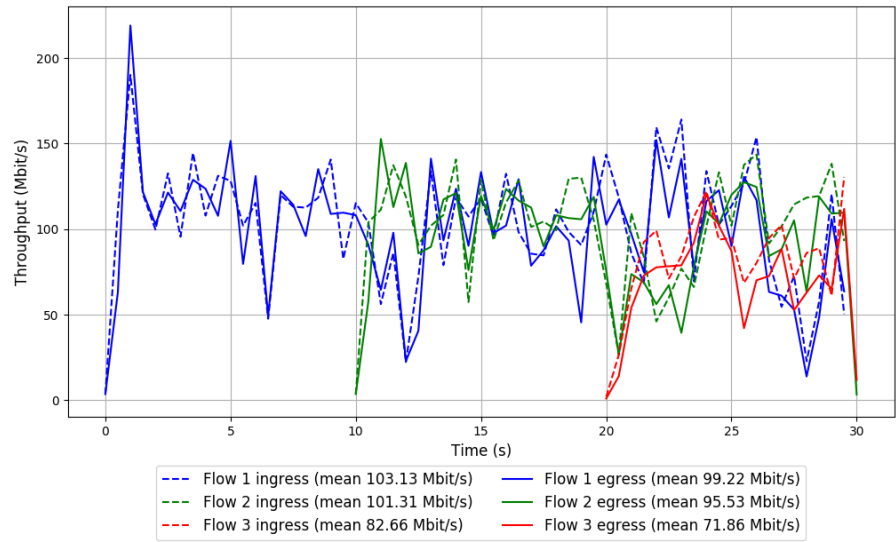
-- Flow 3:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 67.398 ms

Loss rate: 12.97%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-03 01:16:22

End at: 2018-01-03 01:16:52

Below is generated by plot.py at 2018-01-03 04:59:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.32 Mbit/s

95th percentile per-packet one-way delay: 55.274 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.85 Mbit/s

95th percentile per-packet one-way delay: 55.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.34 Mbit/s

95th percentile per-packet one-way delay: 53.831 ms

Loss rate: 0.00%

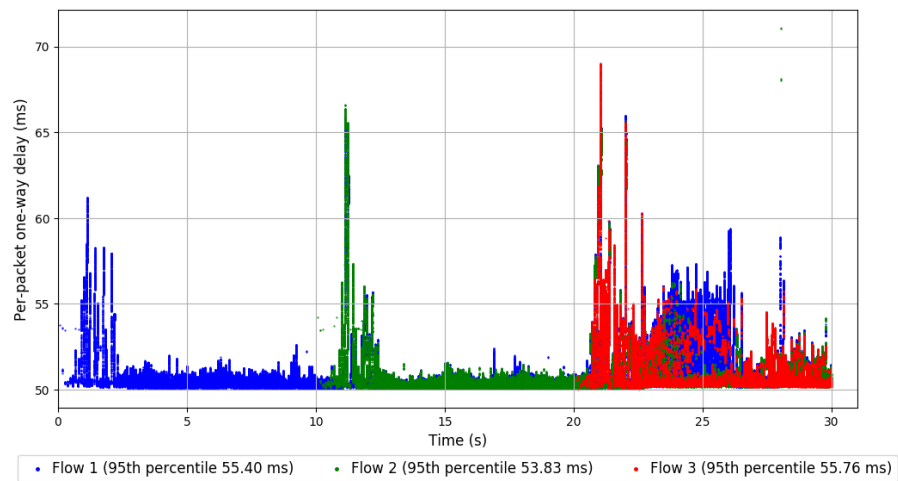
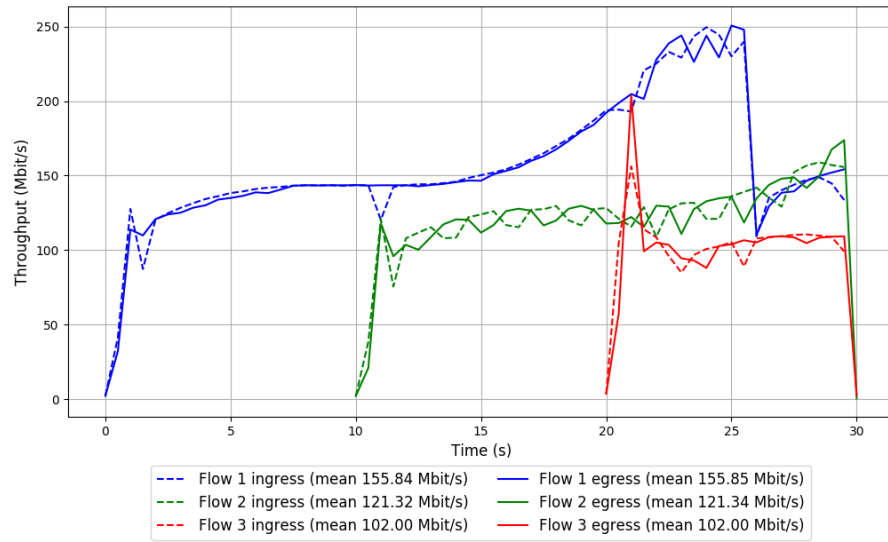
-- Flow 3:

Average throughput: 102.00 Mbit/s

95th percentile per-packet one-way delay: 55.760 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2018-01-03 01:30:33

Below is generated by plot.py at 2018-01-03 04:59:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.44 Mbit/s

95th percentile per-packet one-way delay: 55.534 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.72 Mbit/s

95th percentile per-packet one-way delay: 55.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.34 Mbit/s

95th percentile per-packet one-way delay: 55.927 ms

Loss rate: 0.00%

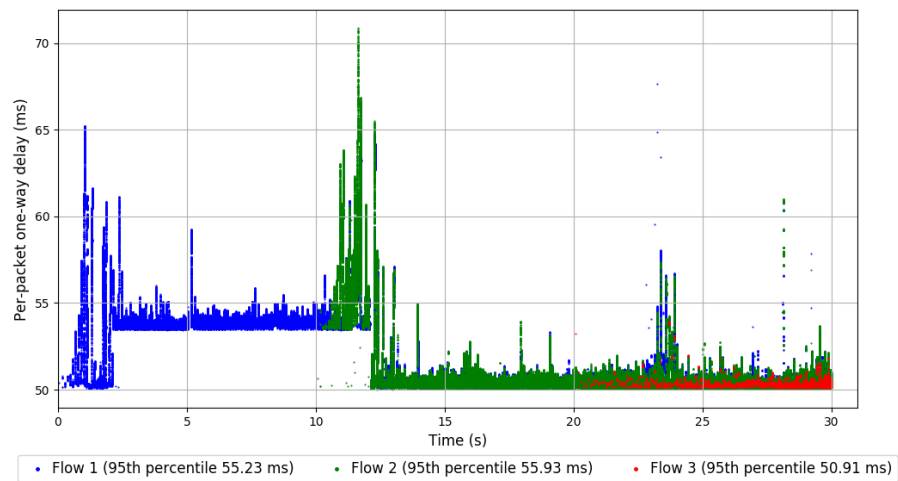
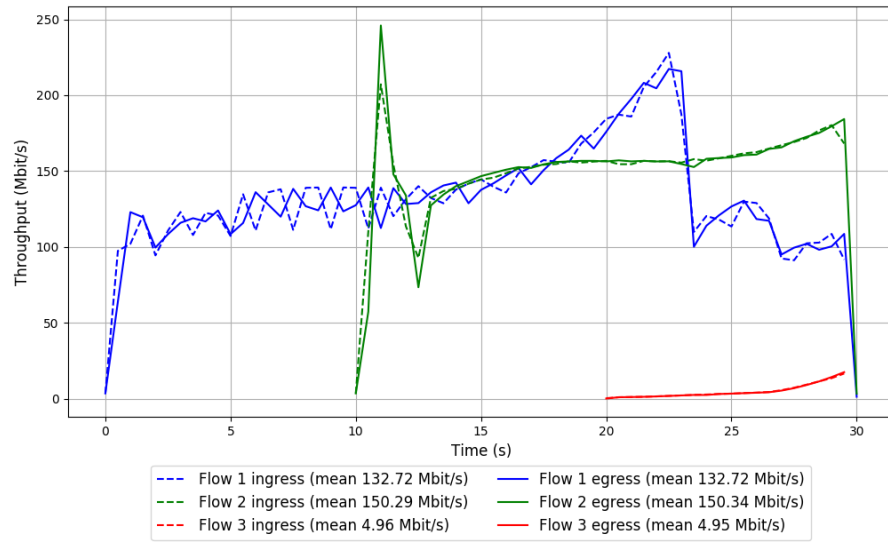
-- Flow 3:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-03 01:43:49

End at: 2018-01-03 01:44:19

Below is generated by plot.py at 2018-01-03 04:59:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.30 Mbit/s

95th percentile per-packet one-way delay: 52.021 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 145.14 Mbit/s

95th percentile per-packet one-way delay: 52.088 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.90 Mbit/s

95th percentile per-packet one-way delay: 51.954 ms

Loss rate: 0.01%

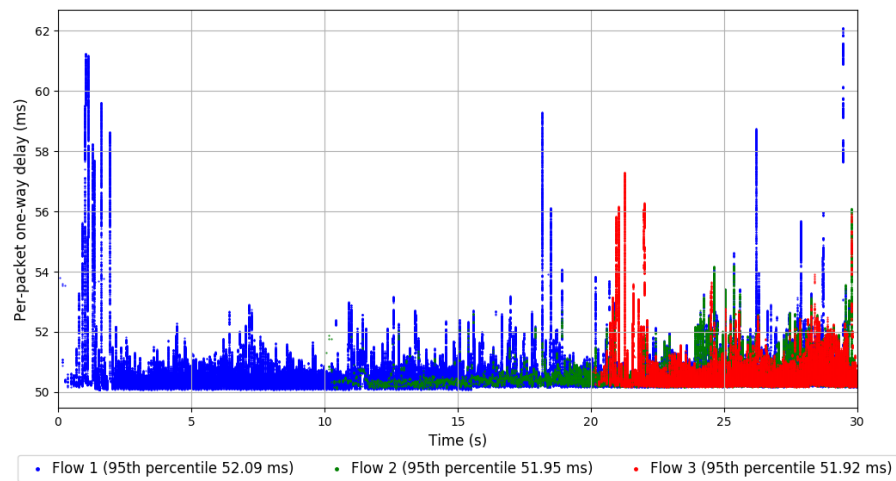
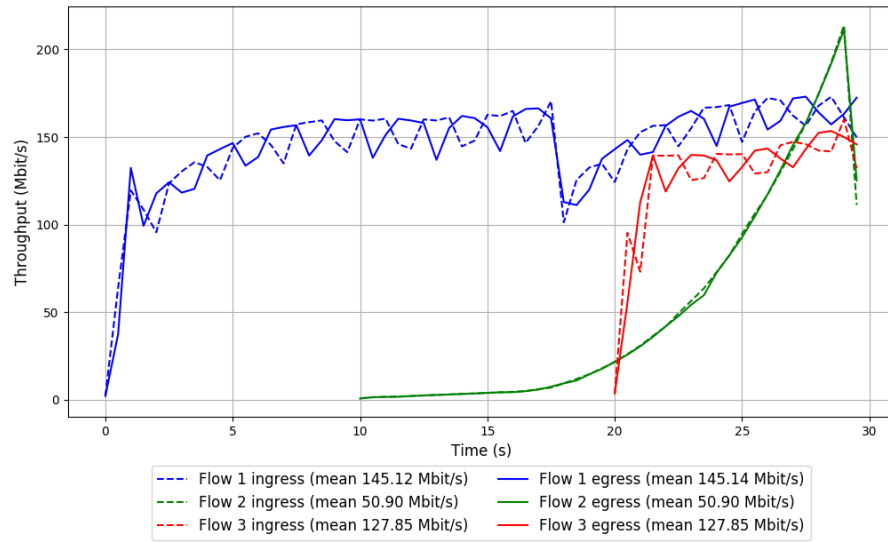
-- Flow 3:

Average throughput: 127.85 Mbit/s

95th percentile per-packet one-way delay: 51.924 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-03 01:57:25

End at: 2018-01-03 01:57:55

Below is generated by plot.py at 2018-01-03 04:59:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.62 Mbit/s

95th percentile per-packet one-way delay: 56.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.63 Mbit/s

95th percentile per-packet one-way delay: 56.589 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.49 Mbit/s

95th percentile per-packet one-way delay: 57.289 ms

Loss rate: 0.01%

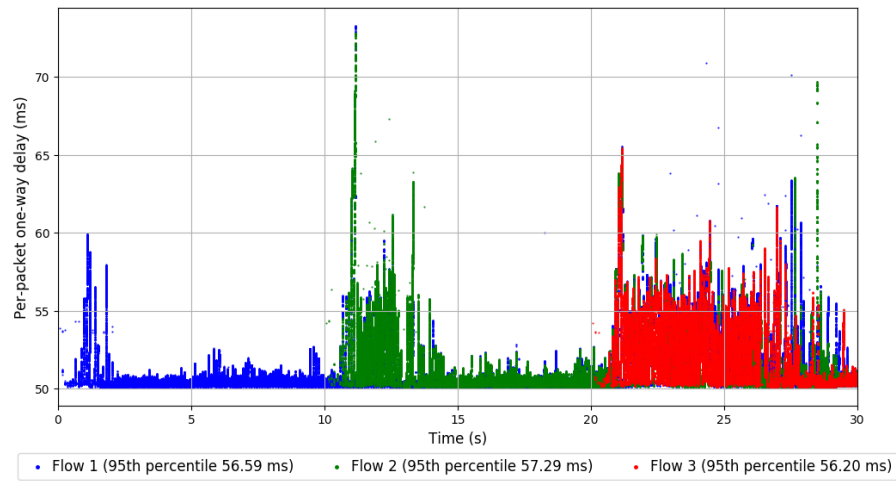
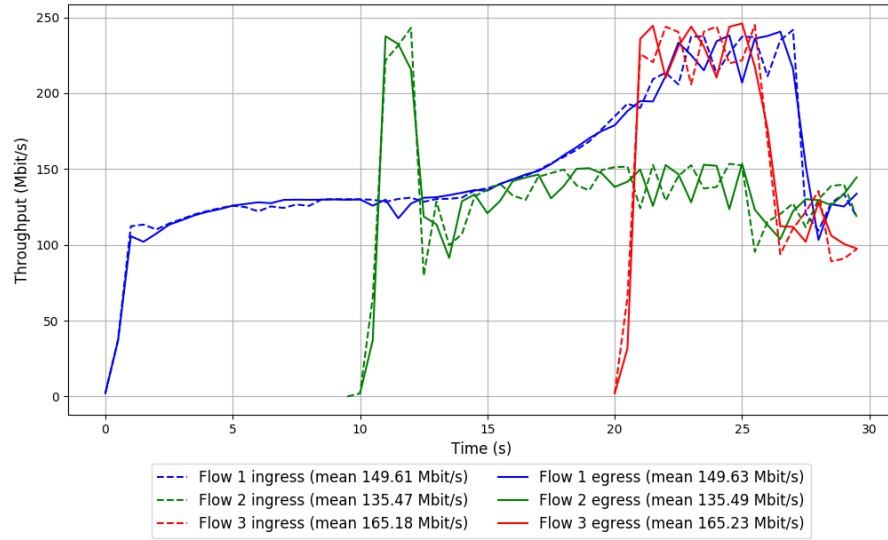
-- Flow 3:

Average throughput: 165.23 Mbit/s

95th percentile per-packet one-way delay: 56.198 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-03 02:11:38

End at: 2018-01-03 02:12:08

Below is generated by plot.py at 2018-01-03 04:59:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.15 Mbit/s

95th percentile per-packet one-way delay: 56.542 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 110.00 Mbit/s

95th percentile per-packet one-way delay: 57.939 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.45 Mbit/s

95th percentile per-packet one-way delay: 54.887 ms

Loss rate: 0.00%

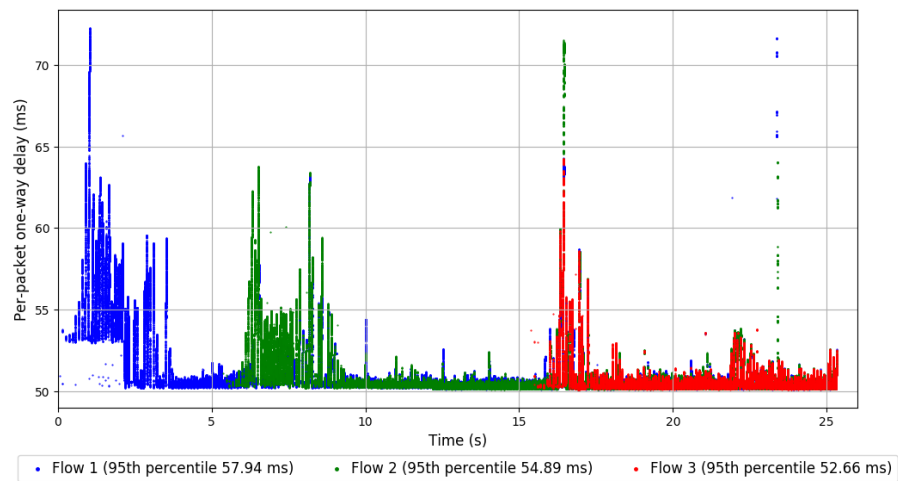
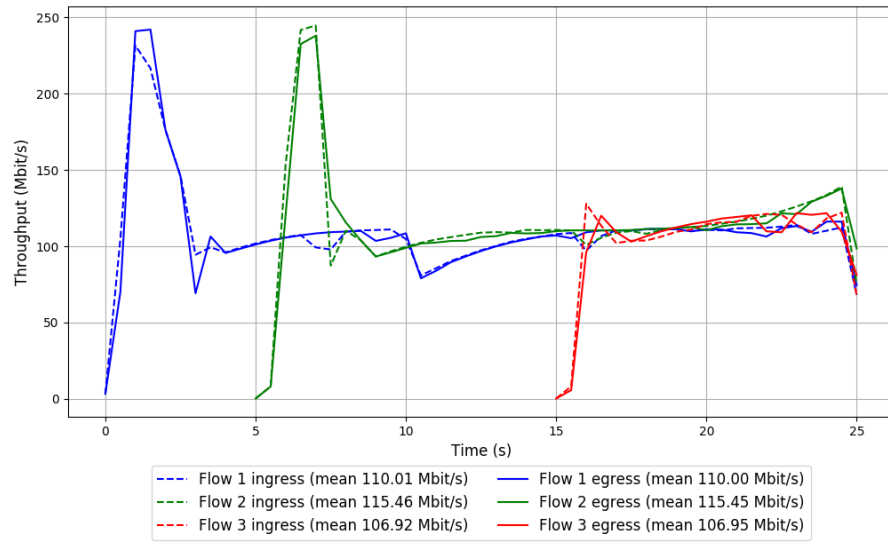
-- Flow 3:

Average throughput: 106.95 Mbit/s

95th percentile per-packet one-way delay: 52.655 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-03 02:25:18

End at: 2018-01-03 02:25:48

Below is generated by plot.py at 2018-01-03 04:59:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.42 Mbit/s

95th percentile per-packet one-way delay: 60.597 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.17 Mbit/s

95th percentile per-packet one-way delay: 61.616 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 61.121 ms

Loss rate: 0.00%

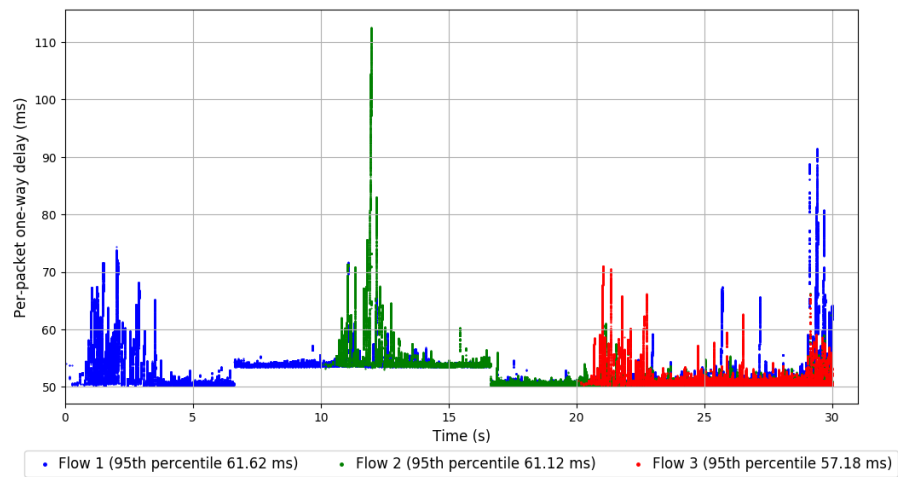
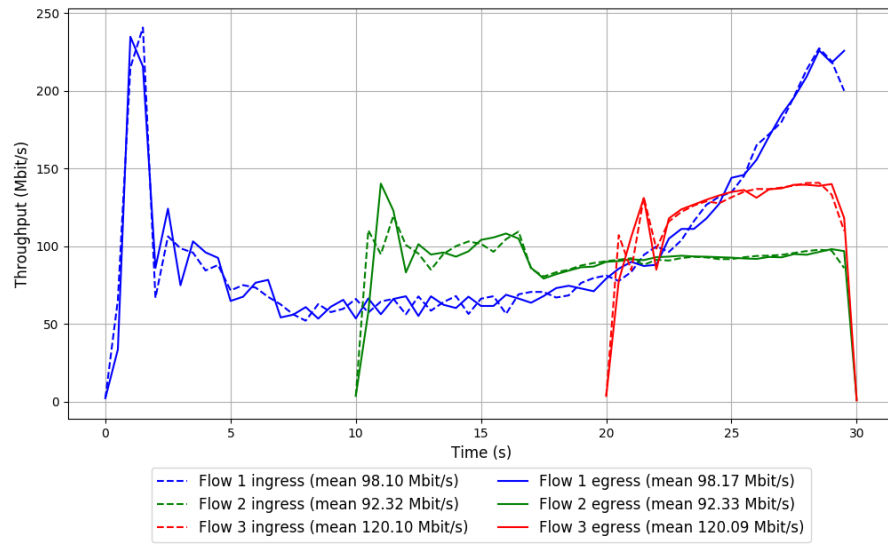
-- Flow 3:

Average throughput: 120.09 Mbit/s

95th percentile per-packet one-way delay: 57.182 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-03 02:37:20

End at: 2018-01-03 02:37:50

Below is generated by plot.py at 2018-01-03 05:01:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.51 Mbit/s

95th percentile per-packet one-way delay: 52.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.25 Mbit/s

95th percentile per-packet one-way delay: 52.325 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.68 Mbit/s

95th percentile per-packet one-way delay: 53.184 ms

Loss rate: 0.00%

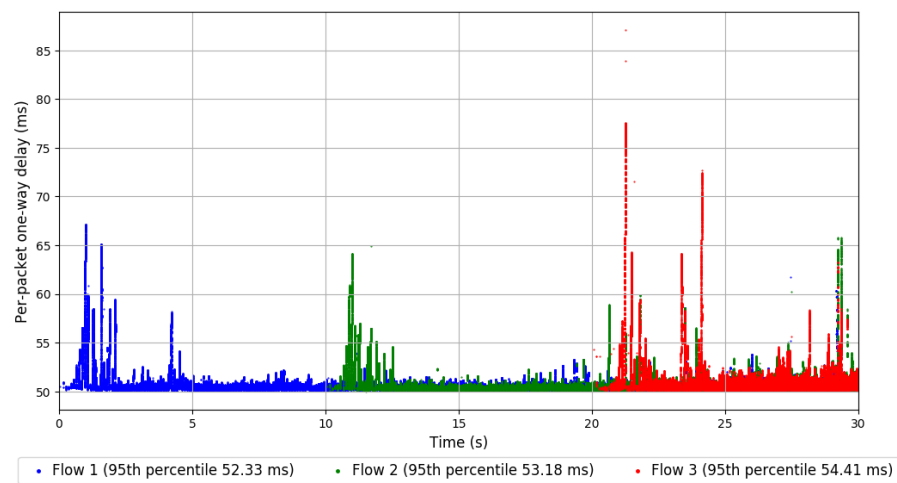
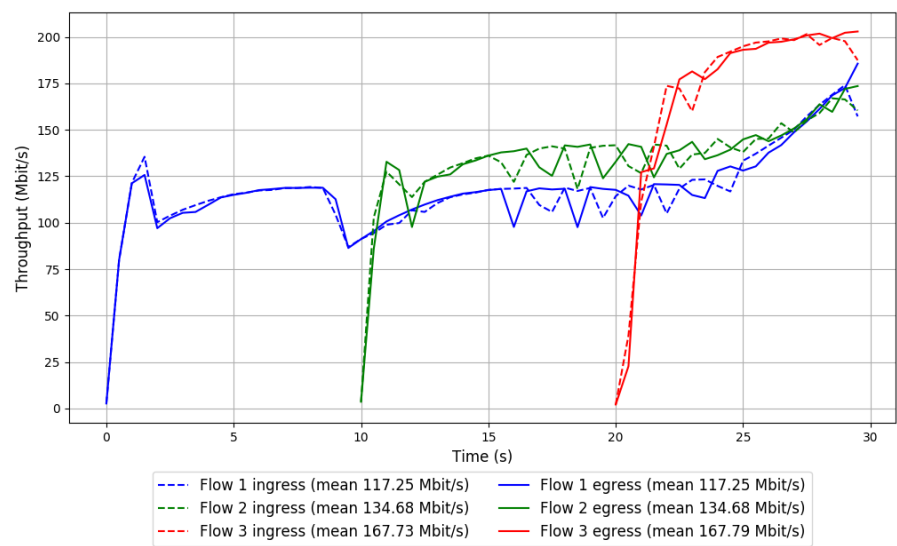
-- Flow 3:

Average throughput: 167.79 Mbit/s

95th percentile per-packet one-way delay: 54.405 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-03 02:51:19

End at: 2018-01-03 02:51:49

Below is generated by plot.py at 2018-01-03 05:01:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.47 Mbit/s

95th percentile per-packet one-way delay: 55.124 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.70 Mbit/s

95th percentile per-packet one-way delay: 57.078 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 107.44 Mbit/s

95th percentile per-packet one-way delay: 55.630 ms

Loss rate: 0.00%

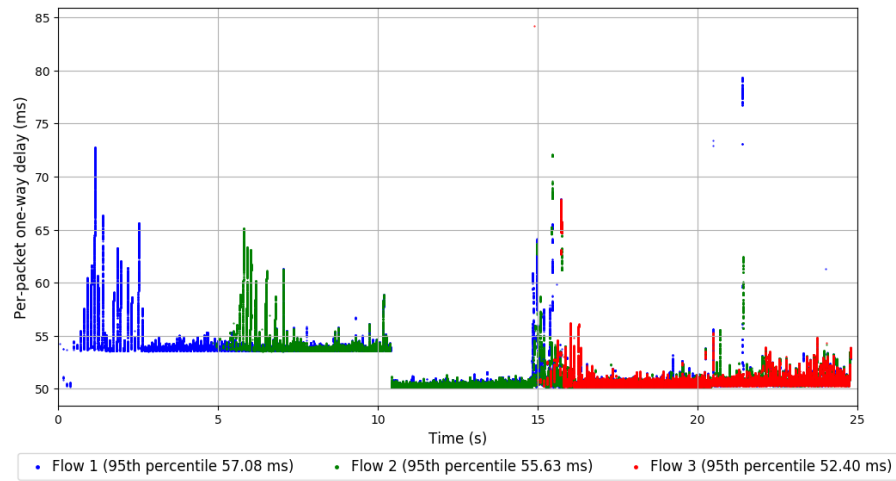
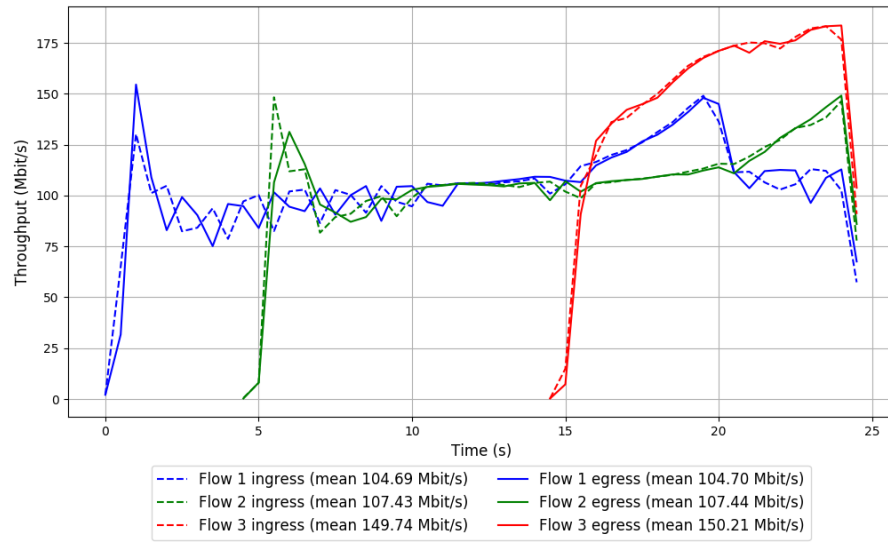
-- Flow 3:

Average throughput: 150.21 Mbit/s

95th percentile per-packet one-way delay: 52.404 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-03 03:05:08

End at: 2018-01-03 03:05:38

Below is generated by plot.py at 2018-01-03 05:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.31 Mbit/s

95th percentile per-packet one-way delay: 56.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 131.76 Mbit/s

95th percentile per-packet one-way delay: 56.358 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 141.62 Mbit/s

95th percentile per-packet one-way delay: 55.981 ms

Loss rate: 0.00%

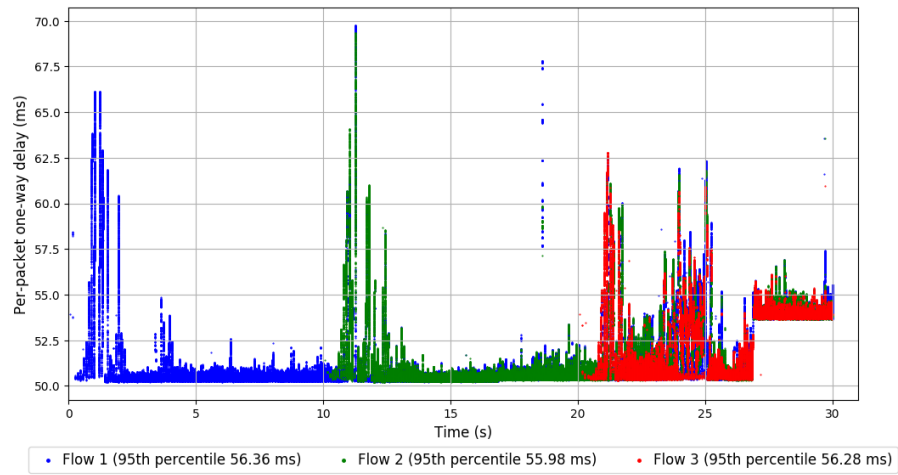
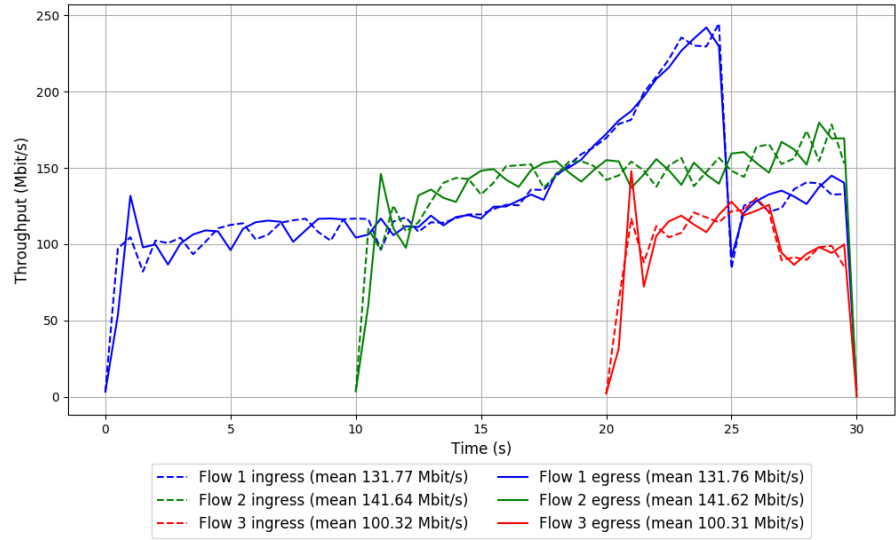
-- Flow 3:

Average throughput: 100.31 Mbit/s

95th percentile per-packet one-way delay: 56.284 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-03 03:18:44

End at: 2018-01-03 03:19:14

Below is generated by plot.py at 2018-01-03 05:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.85 Mbit/s

95th percentile per-packet one-way delay: 62.627 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 82.58 Mbit/s

95th percentile per-packet one-way delay: 59.625 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 66.225 ms

Loss rate: 0.20%

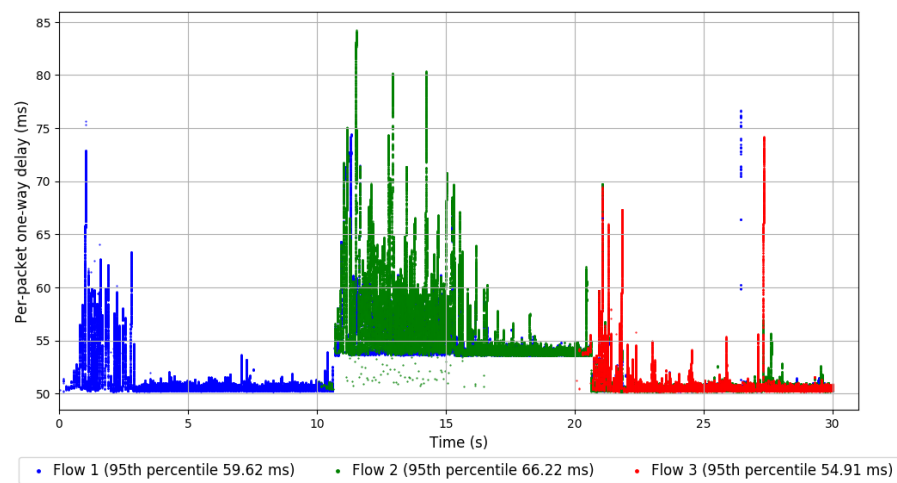
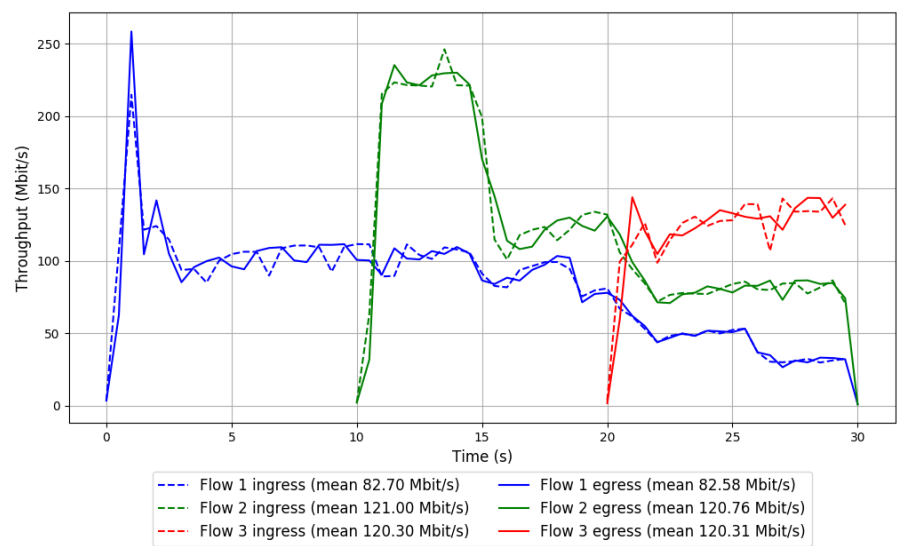
-- Flow 3:

Average throughput: 120.31 Mbit/s

95th percentile per-packet one-way delay: 54.909 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

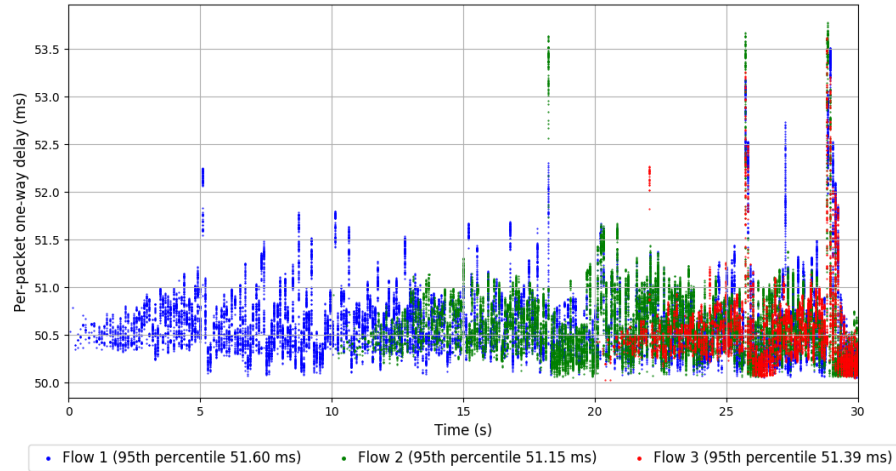
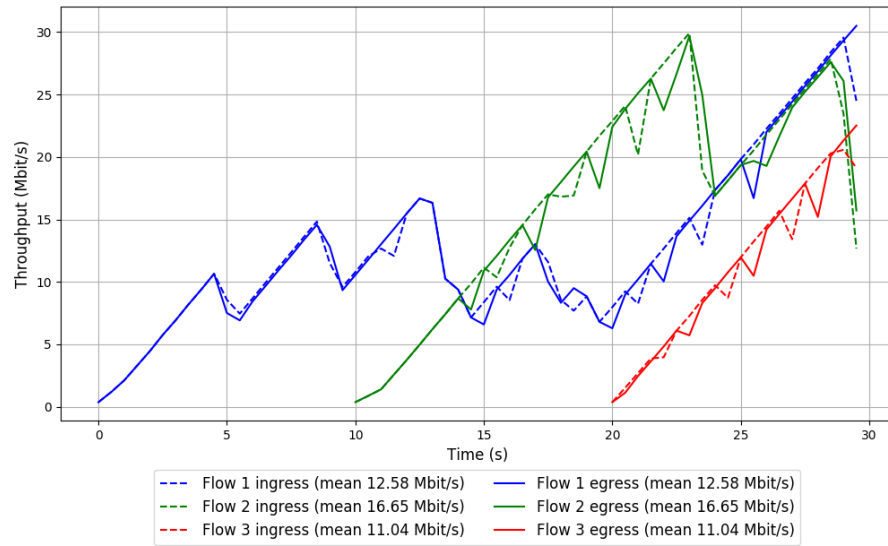


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-03 01:24:30
End at: 2018-01-03 01:25:00

# Below is generated by plot.py at 2018-01-03 05:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.28 Mbit/s
95th percentile per-packet one-way delay: 51.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 51.599 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.65 Mbit/s
95th percentile per-packet one-way delay: 51.150 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 51.393 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

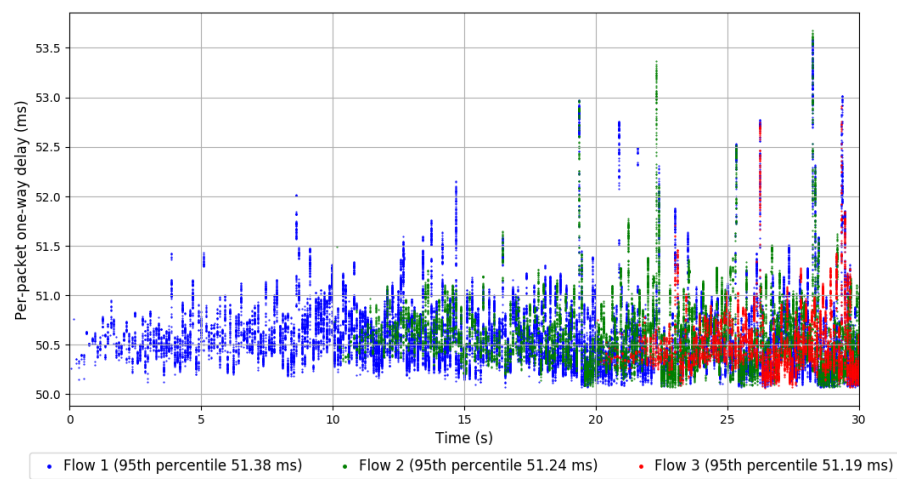
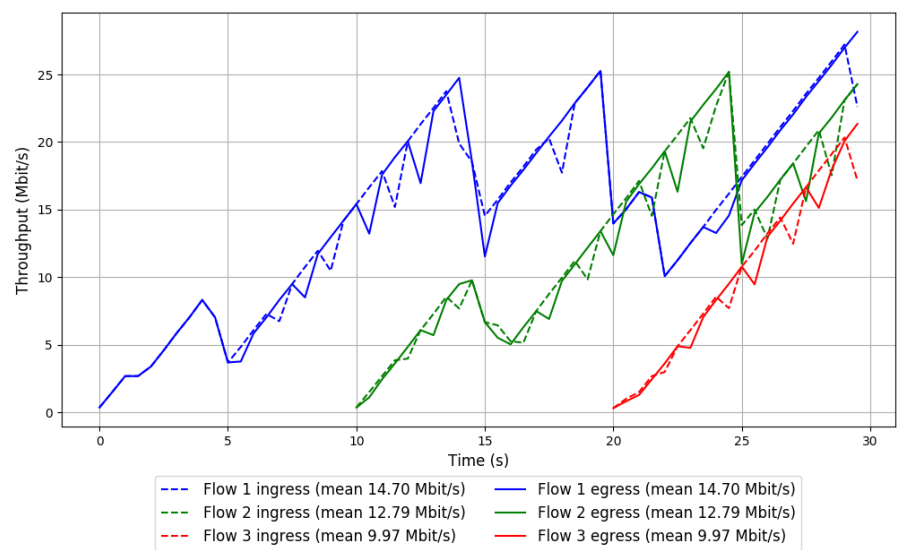


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-03 01:38:00
End at: 2018-01-03 01:38:30

# Below is generated by plot.py at 2018-01-03 05:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.48 Mbit/s
95th percentile per-packet one-way delay: 51.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 51.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 51.237 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 51.187 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

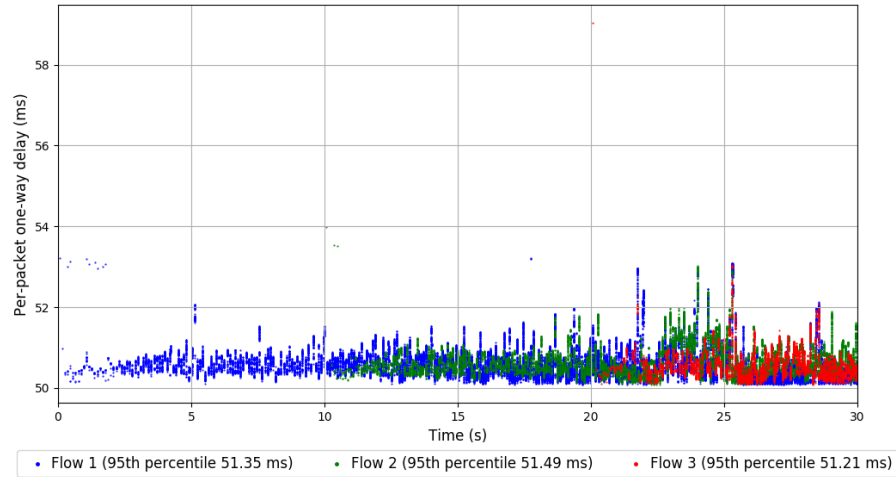
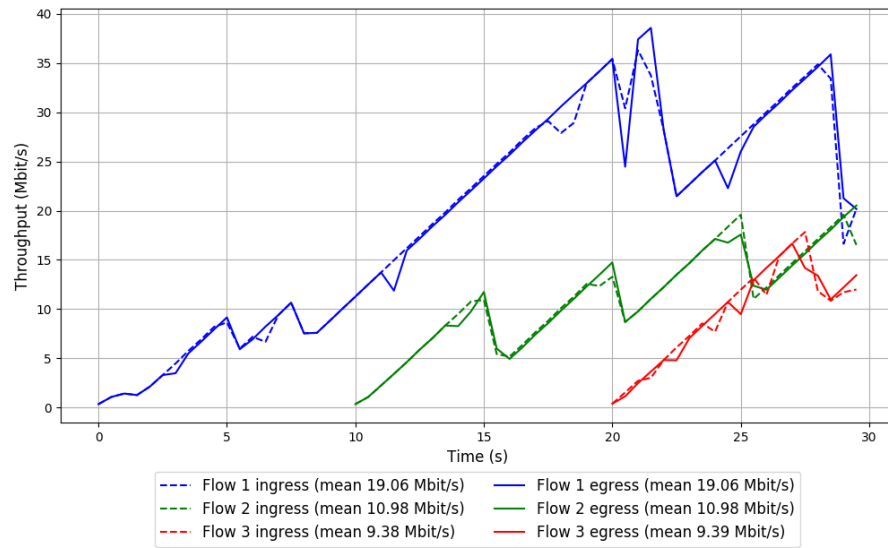


```
Run 3: Statistics of LEDBAT

Start at: 2018-01-03 01:51:46
End at: 2018-01-03 01:52:16

# Below is generated by plot.py at 2018-01-03 05:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 51.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 51.346 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.98 Mbit/s
95th percentile per-packet one-way delay: 51.491 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 51.206 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-03 02:05:47

End at: 2018-01-03 02:06:17

Below is generated by plot.py at 2018-01-03 05:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 53.675 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 51.733 ms

Loss rate: 0.00%

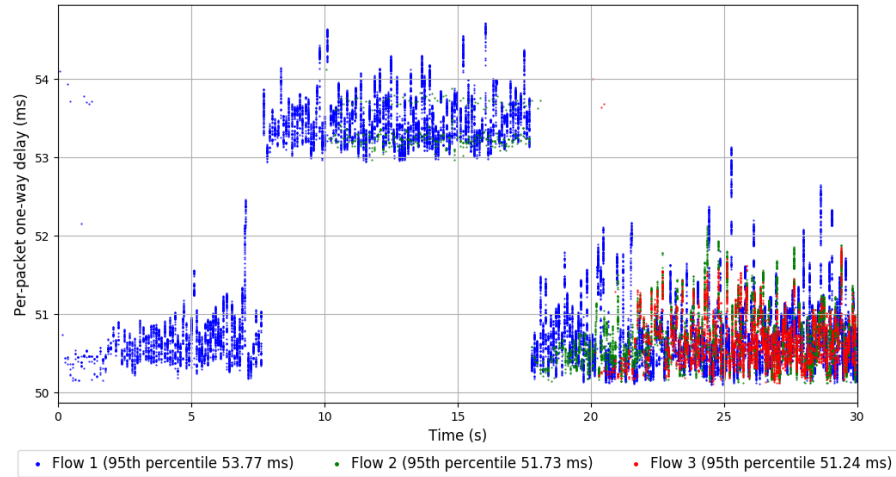
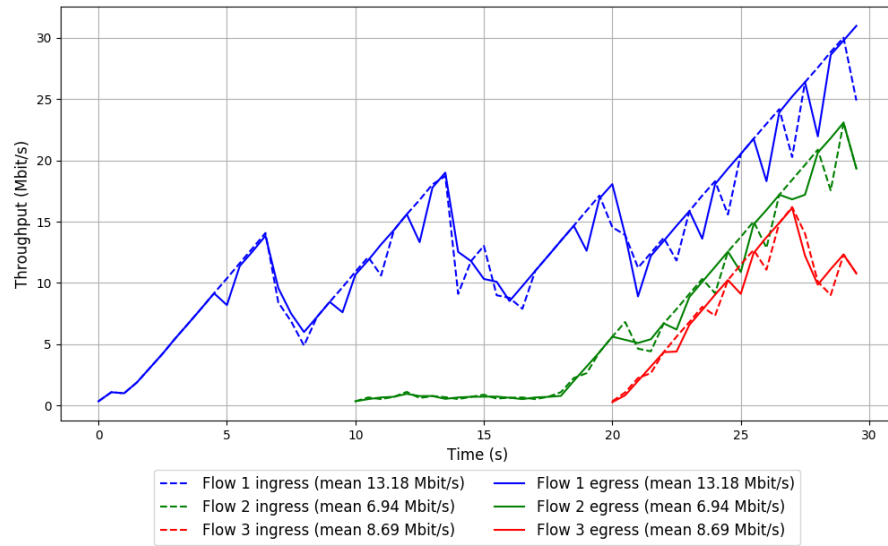
-- Flow 3:

Average throughput: 8.69 Mbit/s

95th percentile per-packet one-way delay: 51.245 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

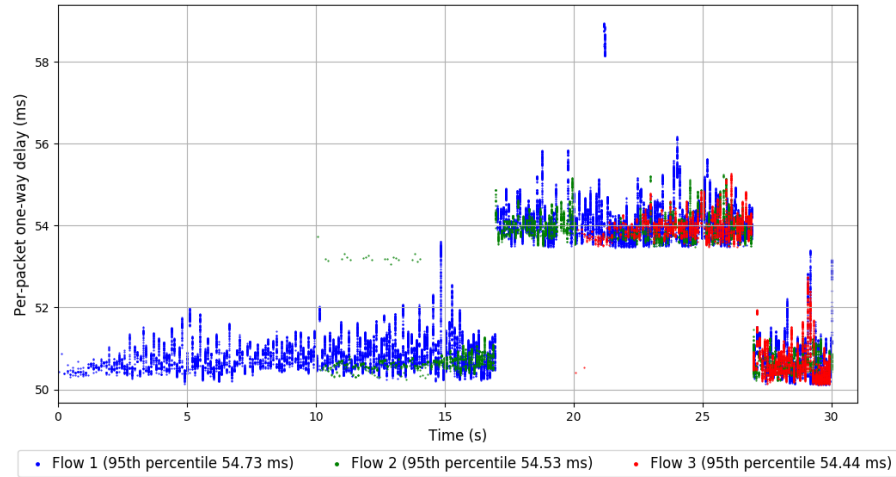
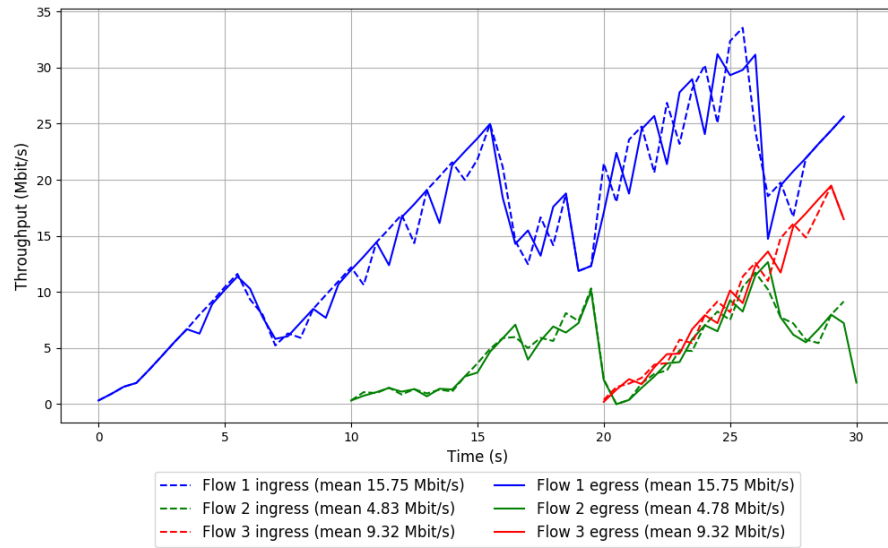


```
Run 5: Statistics of LEDBAT

Start at: 2018-01-03 02:19:48
End at: 2018-01-03 02:20:18

# Below is generated by plot.py at 2018-01-03 05:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.99 Mbit/s
95th percentile per-packet one-way delay: 54.664 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 15.75 Mbit/s
95th percentile per-packet one-way delay: 54.731 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 54.533 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 54.436 ms
Loss rate: 0.00%
```


Run 5: Report of LEDBAT — Data Link

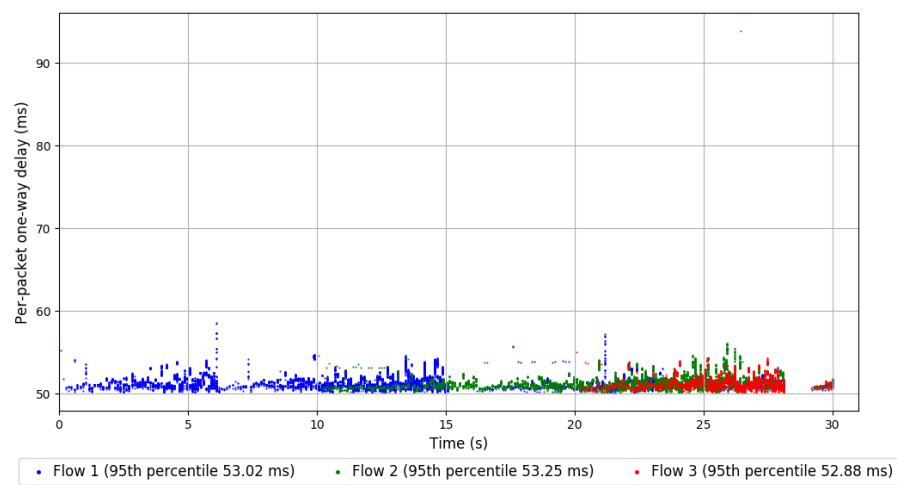
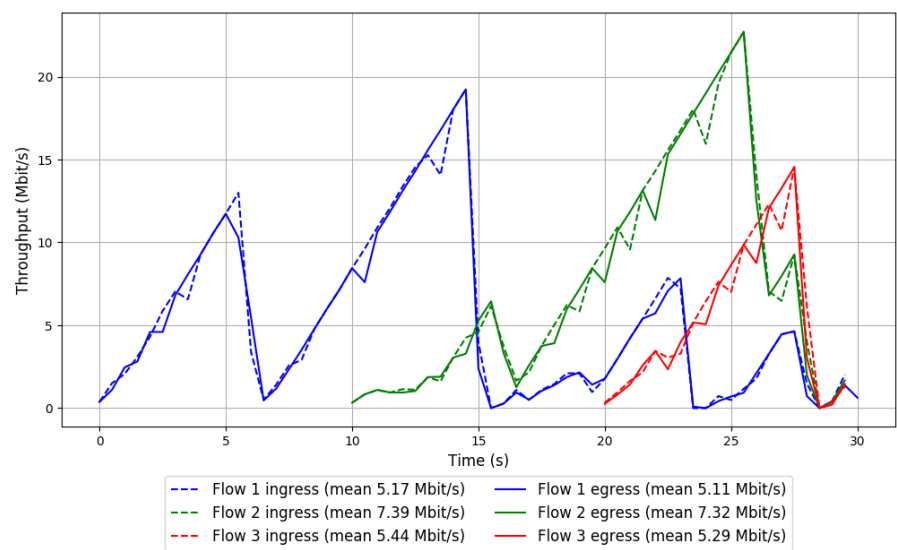


```
Run 6: Statistics of LEDBAT

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

# Below is generated by plot.py at 2018-01-03 05:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 53.086 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 5.11 Mbit/s
95th percentile per-packet one-way delay: 53.024 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 53.248 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 52.882 ms
Loss rate: 2.88%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-03 02:45:30

End at: 2018-01-03 02:46:00

Below is generated by plot.py at 2018-01-03 05:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 51.464 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 51.422 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 51.495 ms

Loss rate: 0.03%

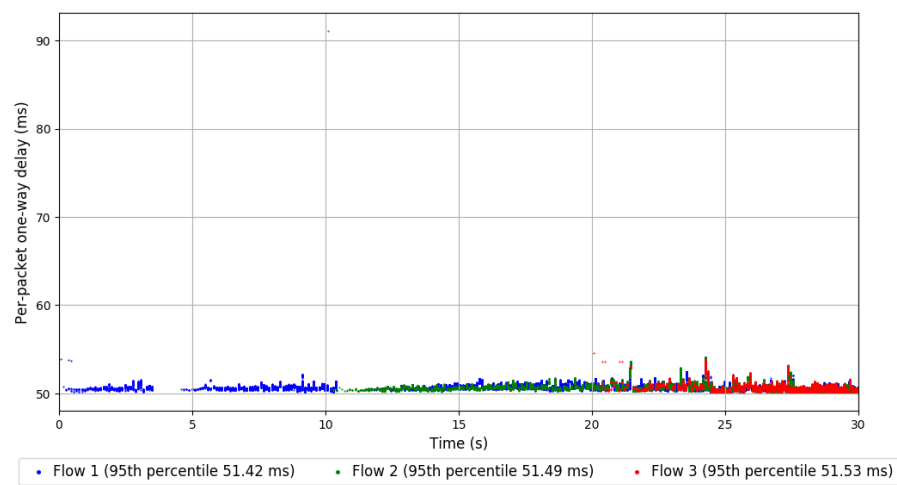
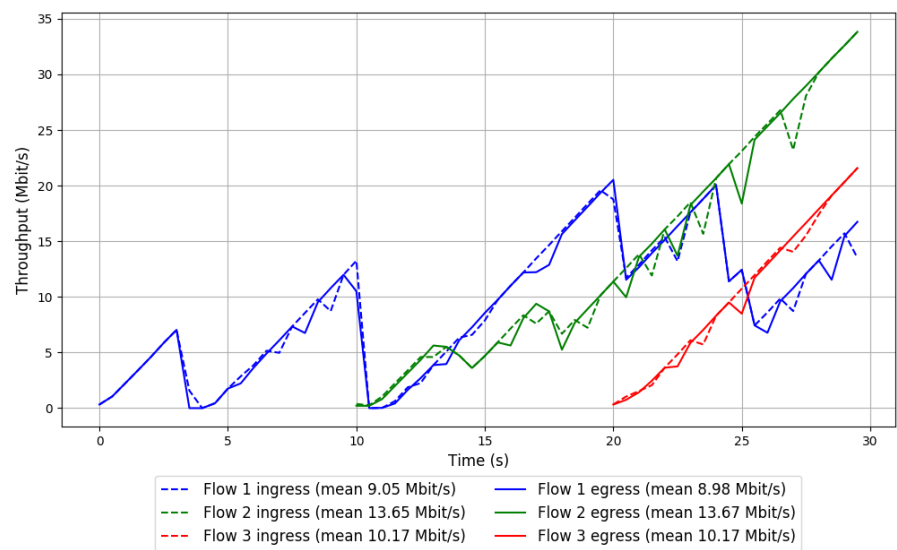
-- Flow 3:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 51.535 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-03 02:59:15

End at: 2018-01-03 02:59:45

Below is generated by plot.py at 2018-01-03 05:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 52.445 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 52.401 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 51.818 ms

Loss rate: 0.00%

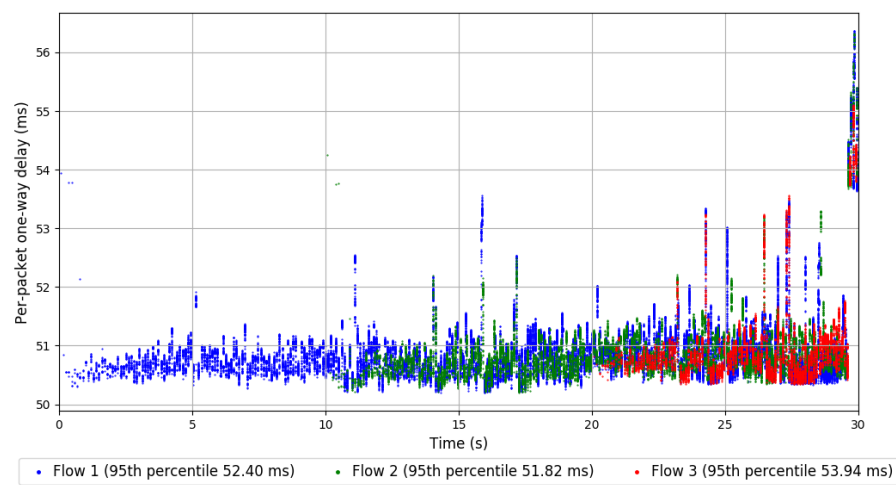
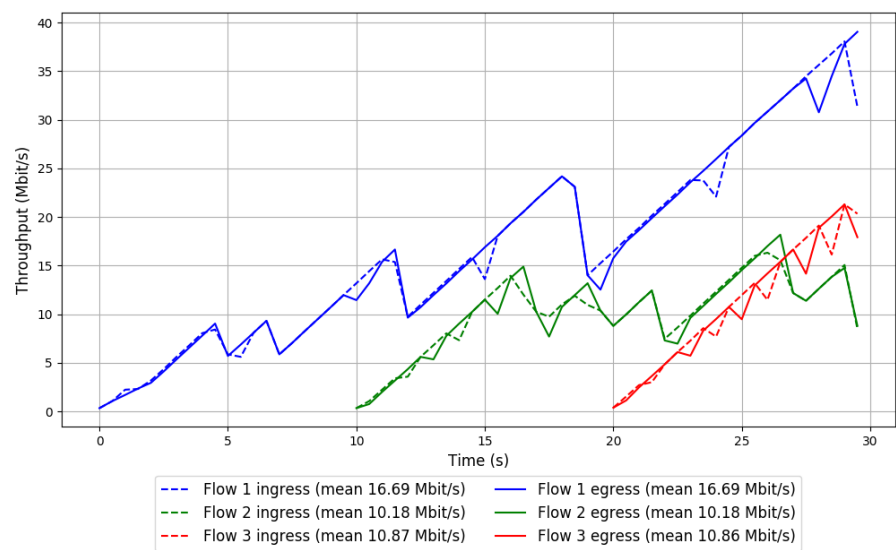
-- Flow 3:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 53.940 ms

Loss rate: 1.12%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-03 03:13:18

End at: 2018-01-03 03:13:48

Below is generated by plot.py at 2018-01-03 05:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 52.376 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 12.19 Mbit/s

95th percentile per-packet one-way delay: 52.552 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 52.021 ms

Loss rate: 0.61%

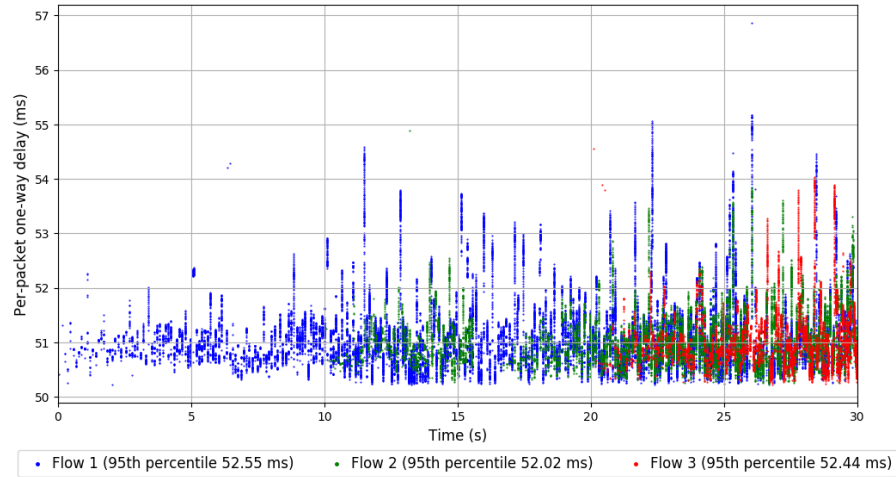
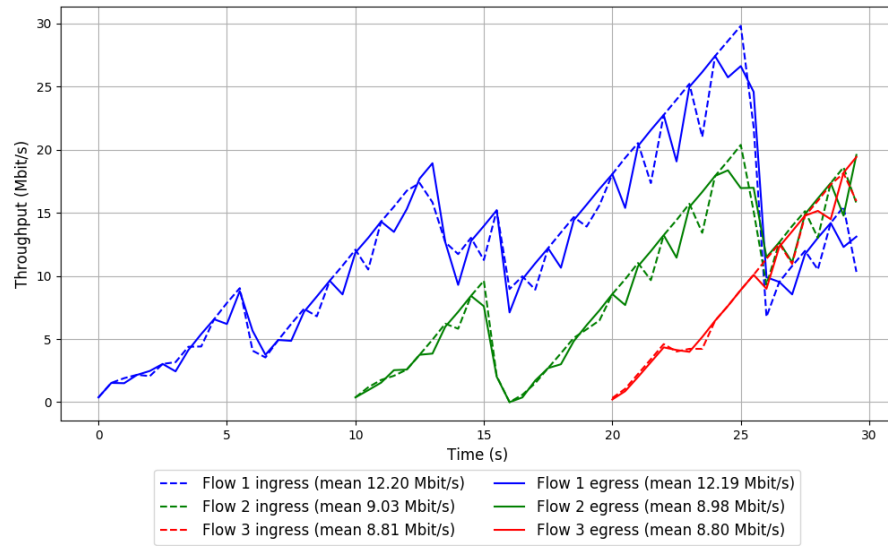
-- Flow 3:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 52.438 ms

Loss rate: 0.12%

Run 9: Report of LEDBAT — Data Link

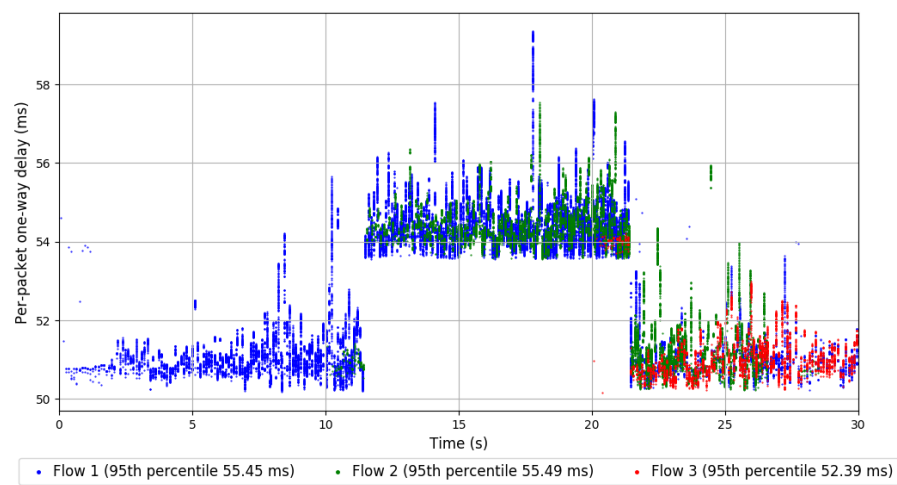
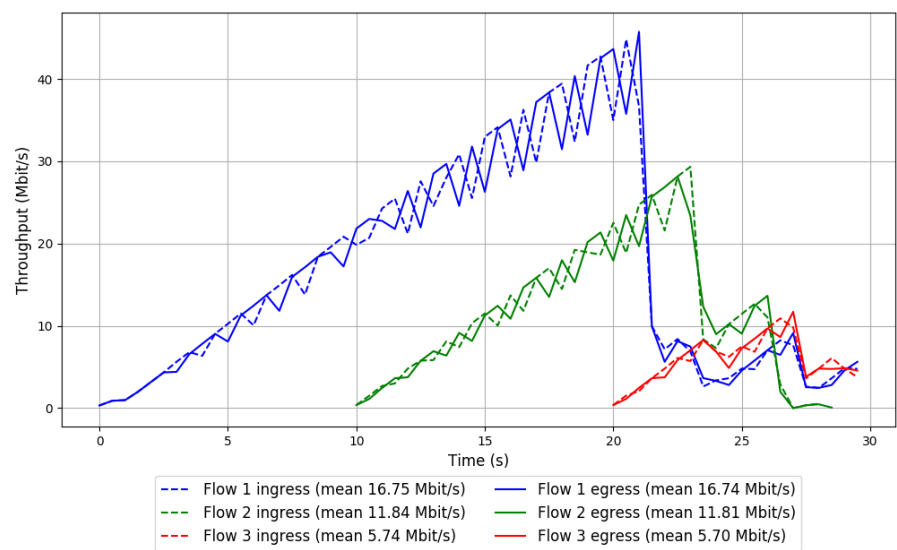


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-03 03:26:53
End at: 2018-01-03 03:27:23

# Below is generated by plot.py at 2018-01-03 05:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 55.420 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 55.453 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 55.487 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 52.393 ms
Loss rate: 0.56%
```

Run 10: Report of LEDBAT — Data Link

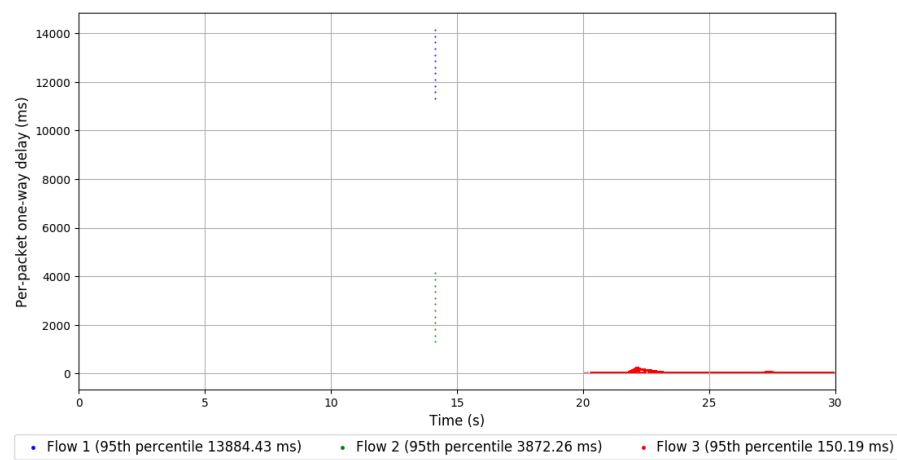
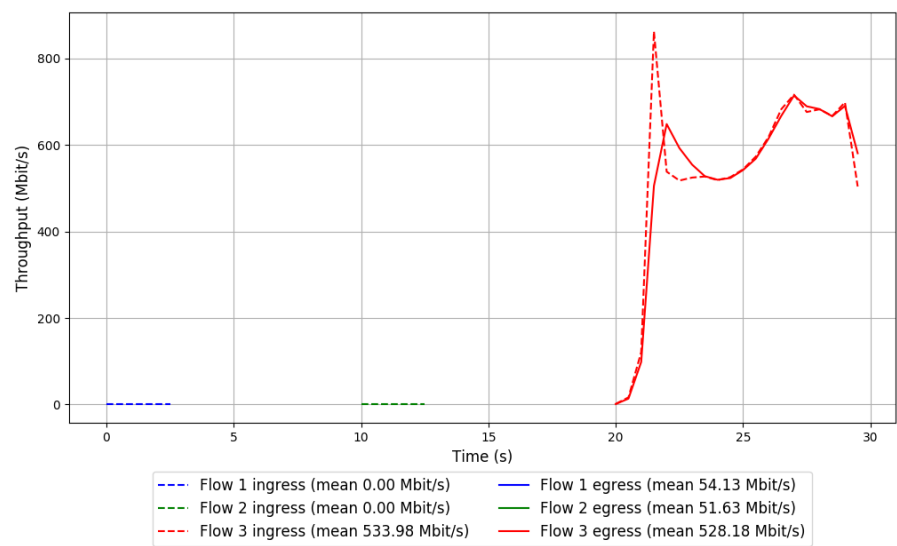


Run 1: Statistics of PCC

Start at: 2018-01-03 01:28:35

End at: 2018-01-03 01:29:05

Run 1: Report of PCC — Data Link

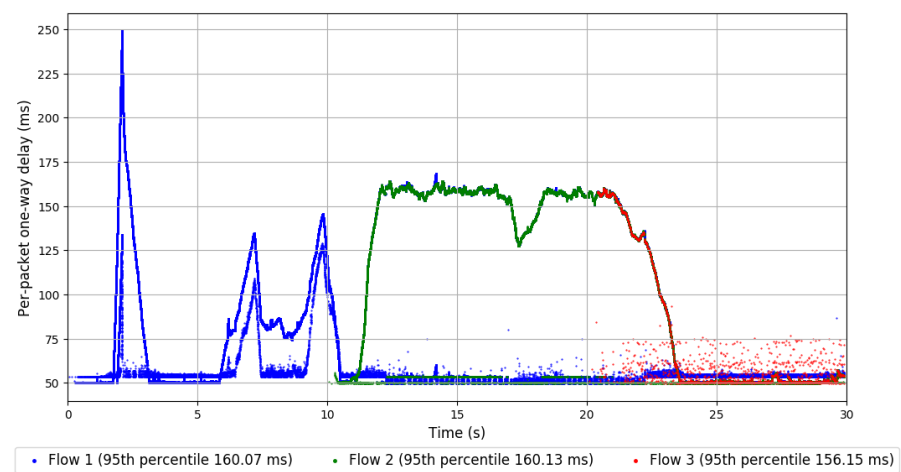
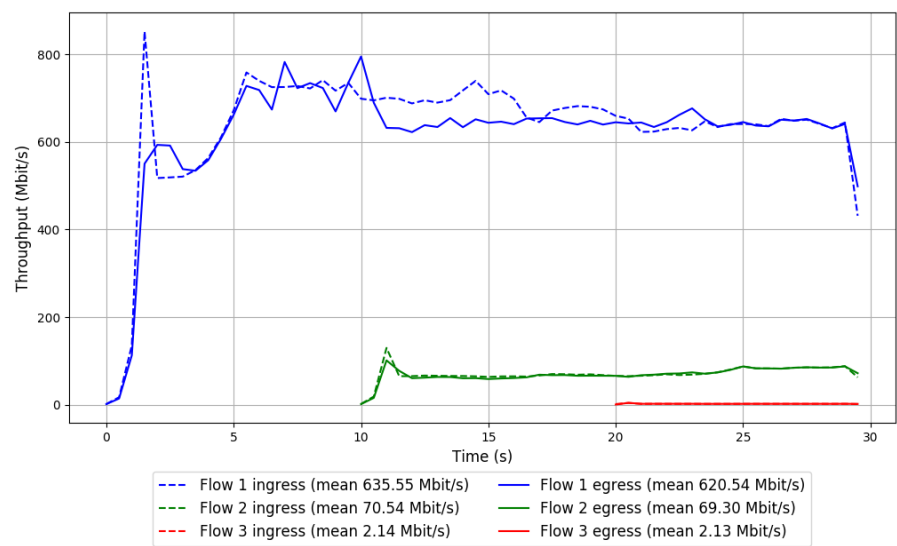


```
Run 2: Statistics of PCC

Start at: 2018-01-03 01:42:02
End at: 2018-01-03 01:42:32

# Below is generated by plot.py at 2018-01-03 05:12:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 667.32 Mbit/s
95th percentile per-packet one-way delay: 160.077 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 620.54 Mbit/s
95th percentile per-packet one-way delay: 160.074 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 69.30 Mbit/s
95th percentile per-packet one-way delay: 160.131 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 156.148 ms
Loss rate: 0.34%
```

Run 2: Report of PCC — Data Link

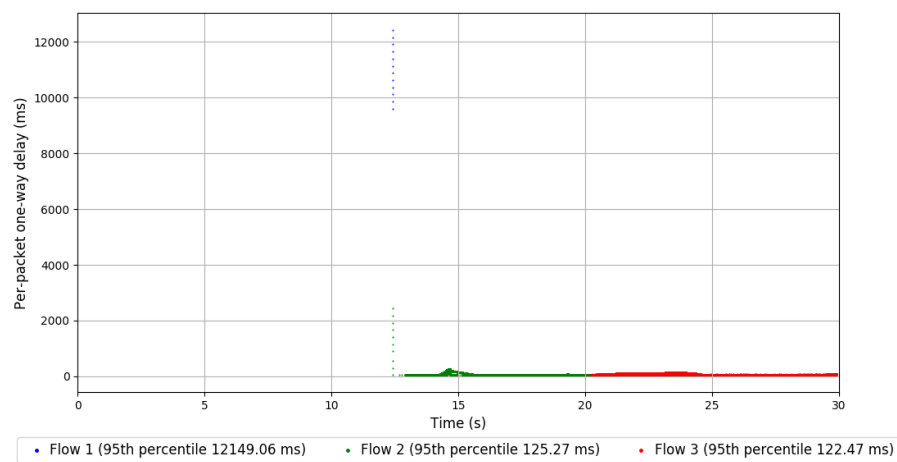
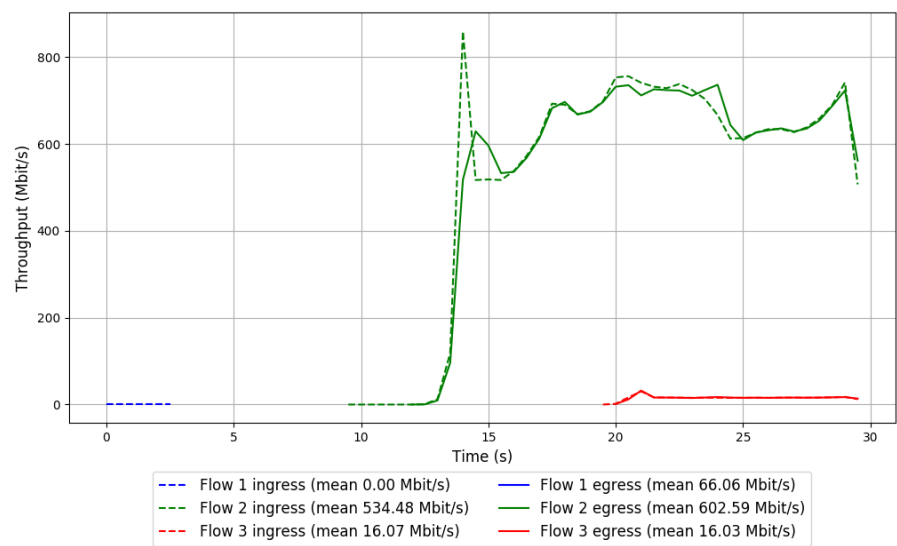


Run 3: Statistics of PCC

Start at: 2018-01-03 01:55:51

End at: 2018-01-03 01:56:21

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-03 02:09:51

End at: 2018-01-03 02:10:21

Below is generated by plot.py at 2018-01-03 05:12:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 665.80 Mbit/s

95th percentile per-packet one-way delay: 151.611 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 642.50 Mbit/s

95th percentile per-packet one-way delay: 151.640 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 151.144 ms

Loss rate: 0.77%

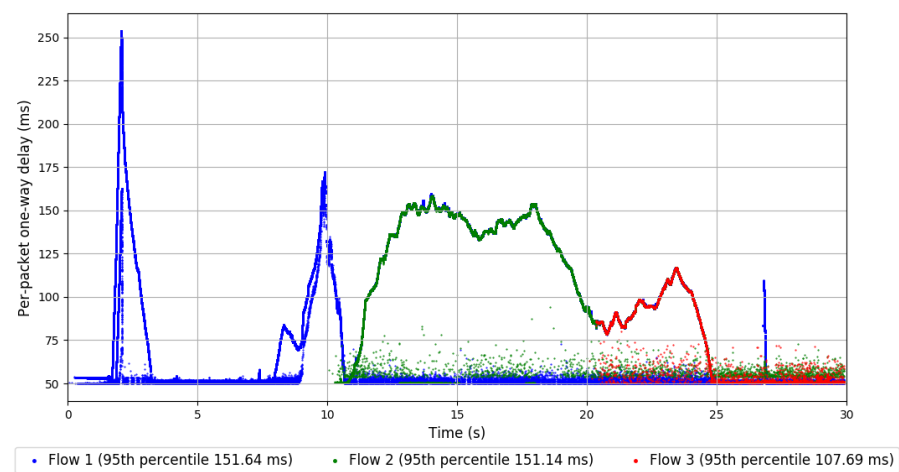
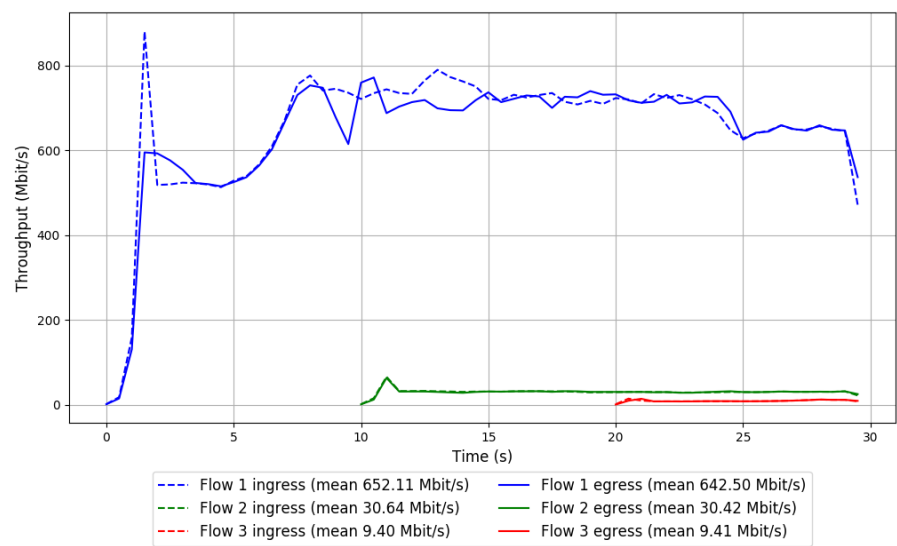
-- Flow 3:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 107.694 ms

Loss rate: 0.01%

Run 4: Report of PCC — Data Link

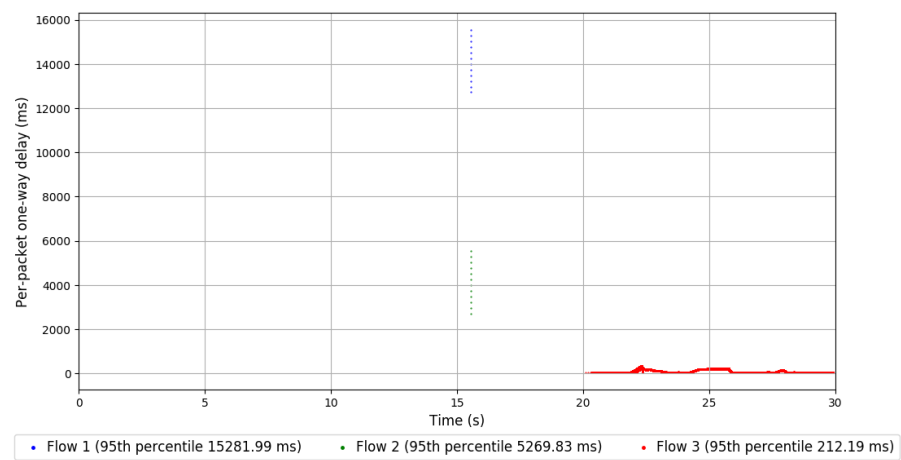
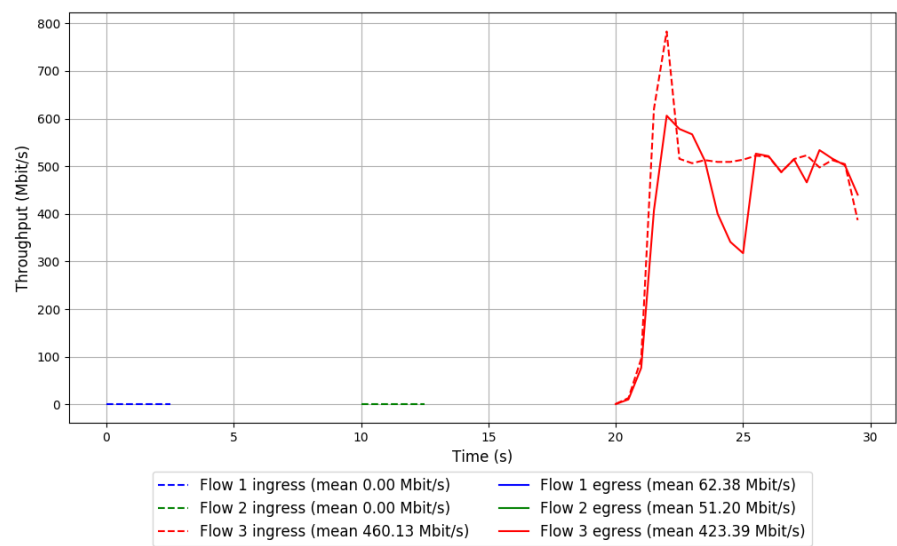


Run 5: Statistics of PCC

Start at: 2018-01-03 02:23:52

End at: 2018-01-03 02:24:22

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-03 02:35:49

End at: 2018-01-03 02:36:19

Below is generated by plot.py at 2018-01-03 05:12:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.45 Mbit/s

95th percentile per-packet one-way delay: 66.092 ms

Loss rate: 7.69%

-- Flow 1:

Average throughput: 230.80 Mbit/s

95th percentile per-packet one-way delay: 66.188 ms

Loss rate: 7.82%

-- Flow 2:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 66.008 ms

Loss rate: 8.58%

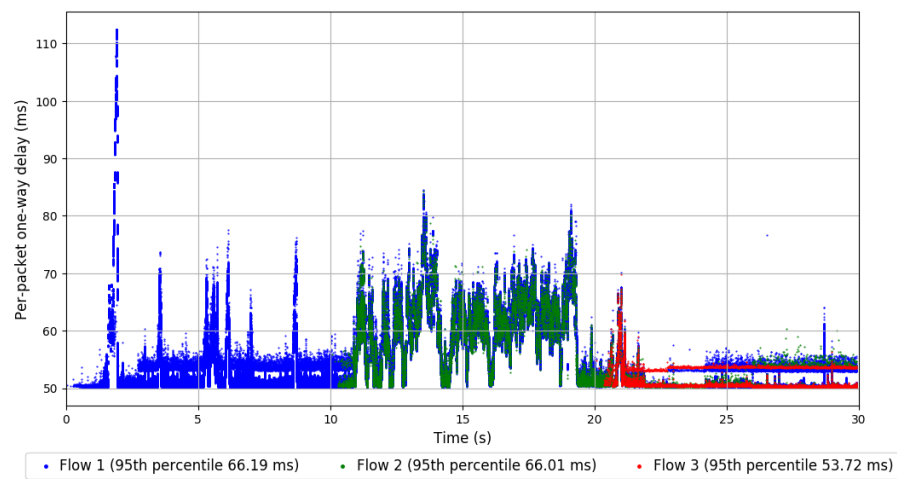
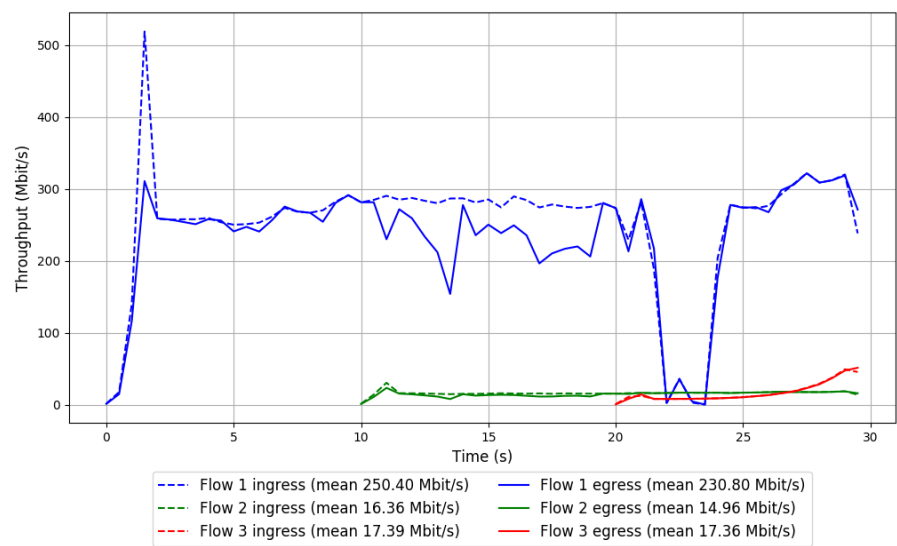
-- Flow 3:

Average throughput: 17.36 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 0.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-03 02:49:33

End at: 2018-01-03 02:50:03

Below is generated by plot.py at 2018-01-03 05:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.80 Mbit/s

95th percentile per-packet one-way delay: 164.873 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 576.55 Mbit/s

95th percentile per-packet one-way delay: 164.711 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 165.088 ms

Loss rate: 1.33%

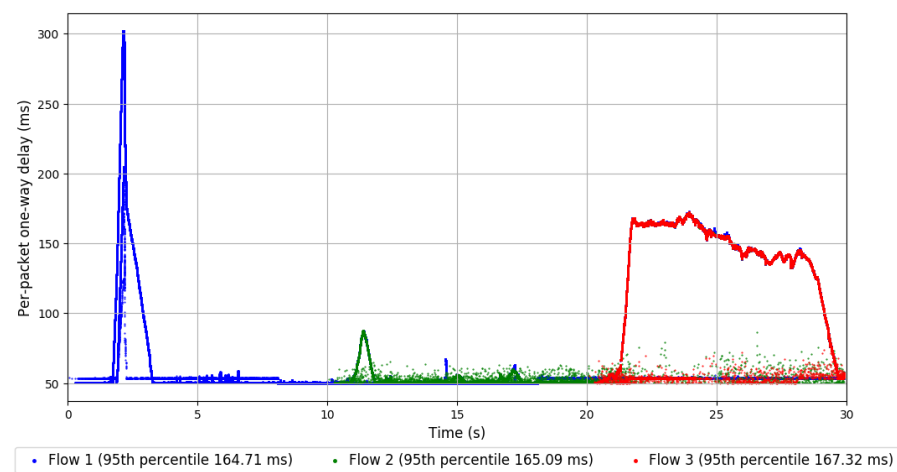
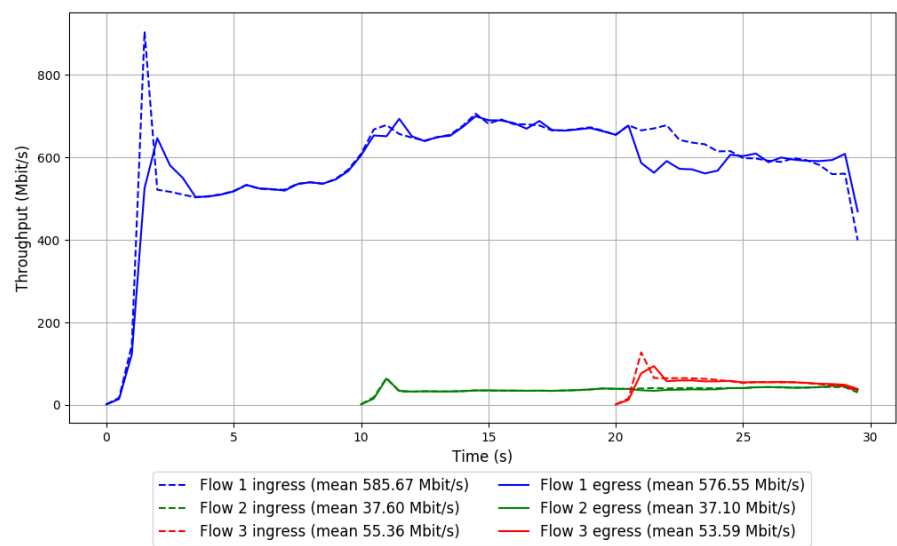
-- Flow 3:

Average throughput: 53.59 Mbit/s

95th percentile per-packet one-way delay: 167.319 ms

Loss rate: 3.24%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

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

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 641.64 Mbit/s

95th percentile per-packet one-way delay: 162.822 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 616.24 Mbit/s

95th percentile per-packet one-way delay: 162.953 ms

Loss rate: 2.48%

-- Flow 2:

Average throughput: 5.22 Mbit/s

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

Loss rate: 1.97%

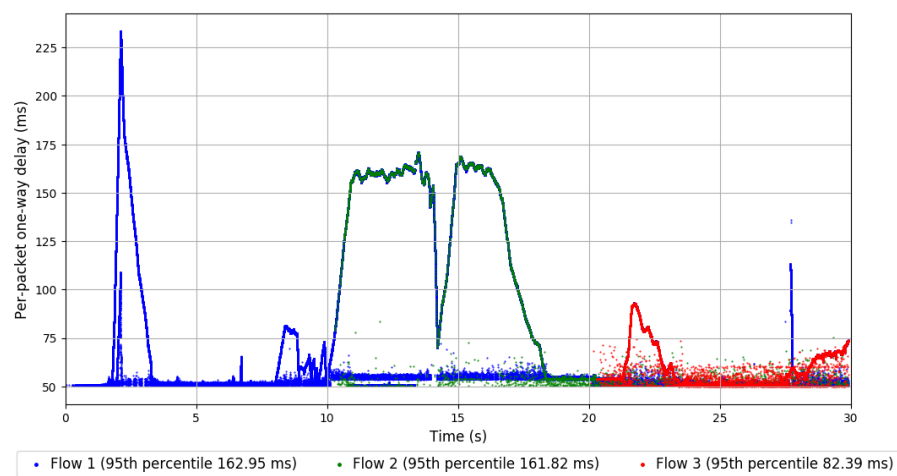
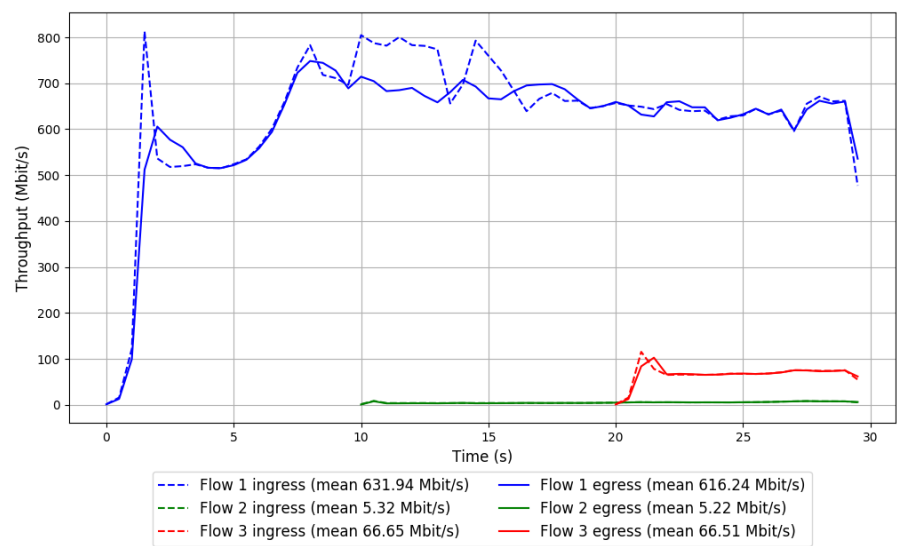
-- Flow 3:

Average throughput: 66.51 Mbit/s

95th percentile per-packet one-way delay: 82.388 ms

Loss rate: 0.27%

Run 8: Report of PCC — Data Link

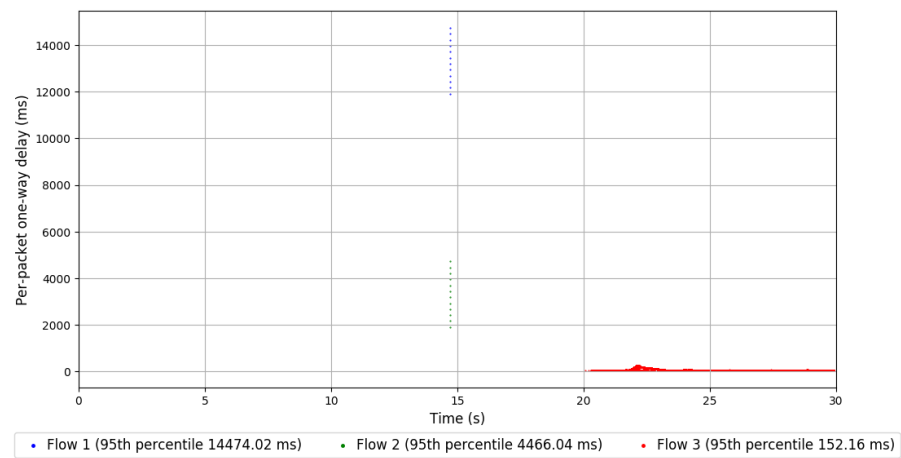
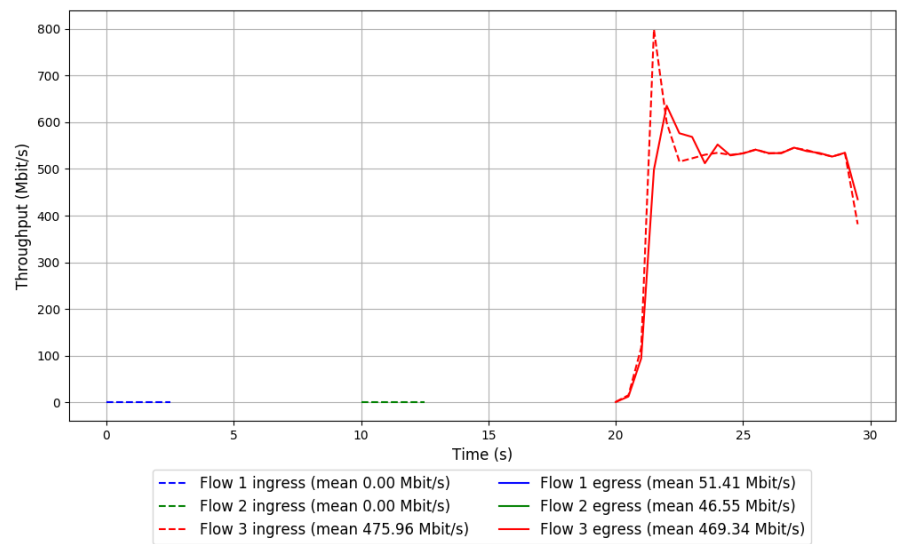


Run 9: Statistics of PCC

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

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

Run 9: Report of PCC — Data Link

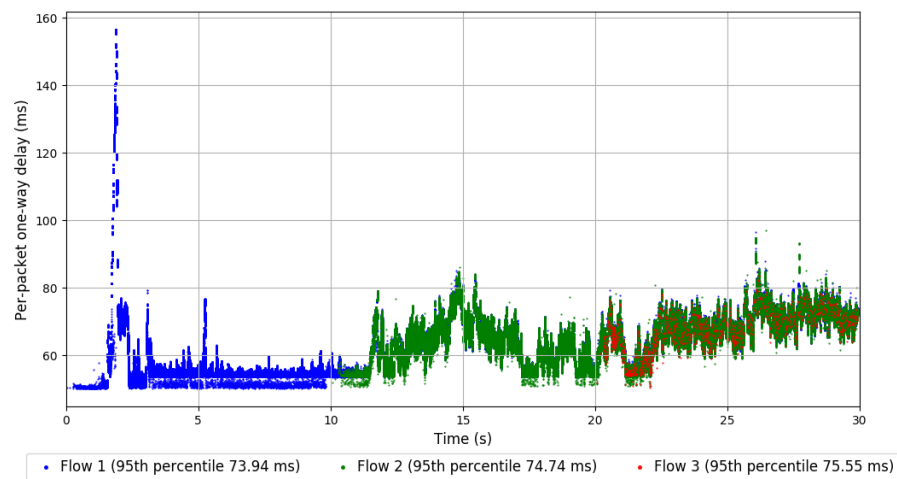
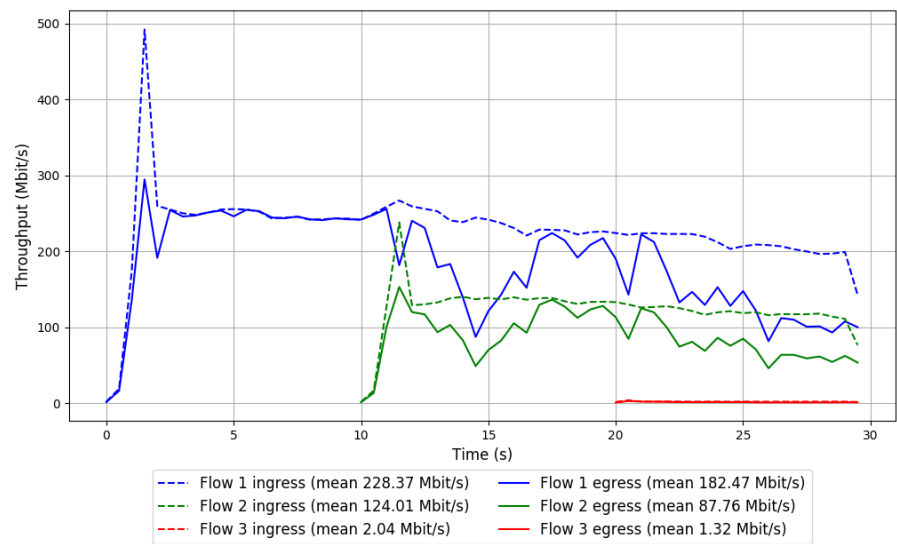


```
Run 10: Statistics of PCC

Start at: 2018-01-03 03:30:52
End at: 2018-01-03 03:31:22

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.26 Mbit/s
95th percentile per-packet one-way delay: 74.192 ms
Loss rate: 22.48%
-- Flow 1:
Average throughput: 182.47 Mbit/s
95th percentile per-packet one-way delay: 73.941 ms
Loss rate: 20.04%
-- Flow 2:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 74.737 ms
Loss rate: 29.15%
-- Flow 3:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 75.550 ms
Loss rate: 34.86%
```

Run 10: Report of PCC — Data Link

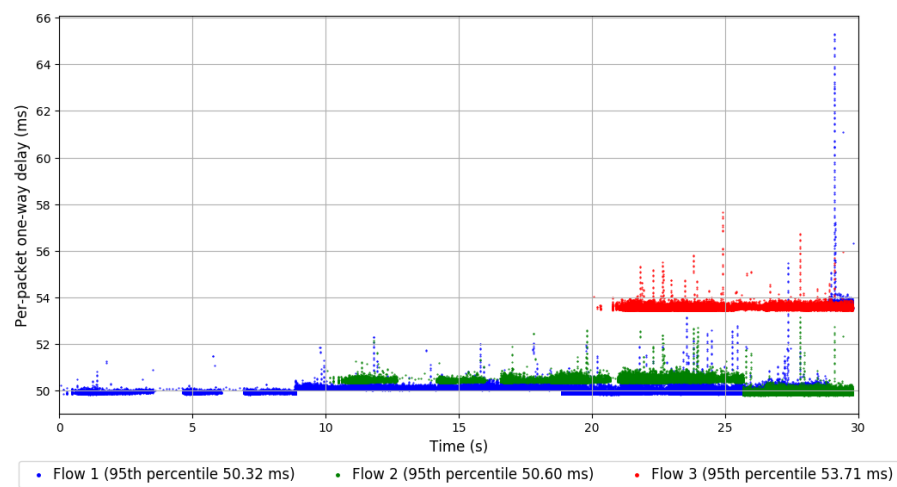
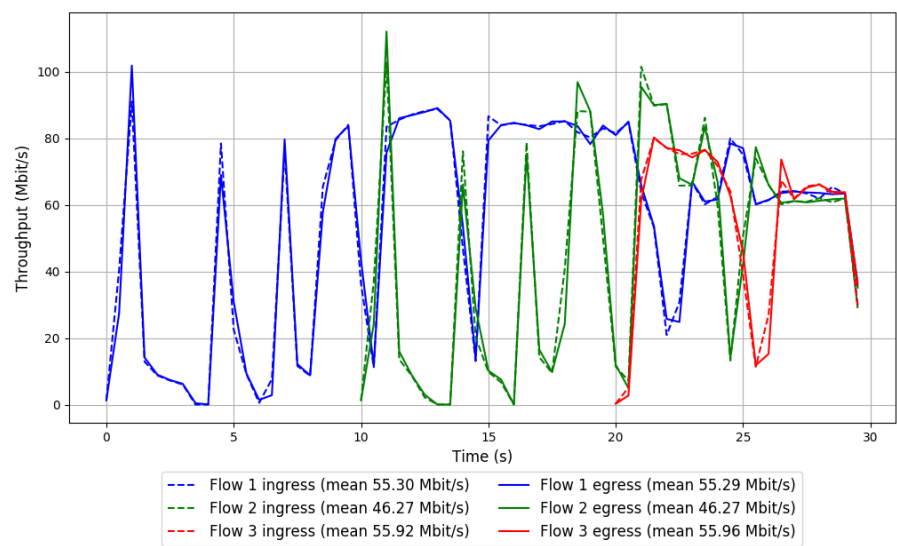


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-03 01:26:06
End at: 2018-01-03 01:26:36

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.27 Mbit/s
95th percentile per-packet one-way delay: 53.595 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 50.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.96 Mbit/s
95th percentile per-packet one-way delay: 53.707 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-03 01:39:36

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

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.00 Mbit/s

95th percentile per-packet one-way delay: 53.570 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 53.583 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.00%

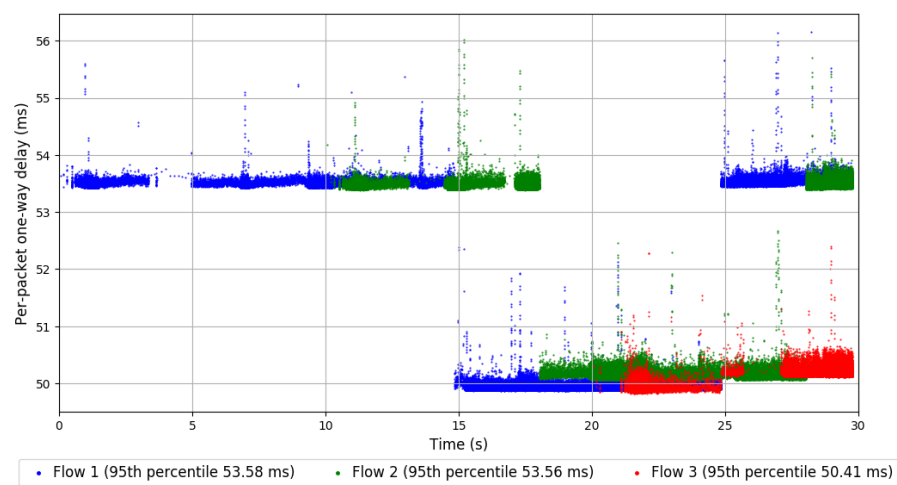
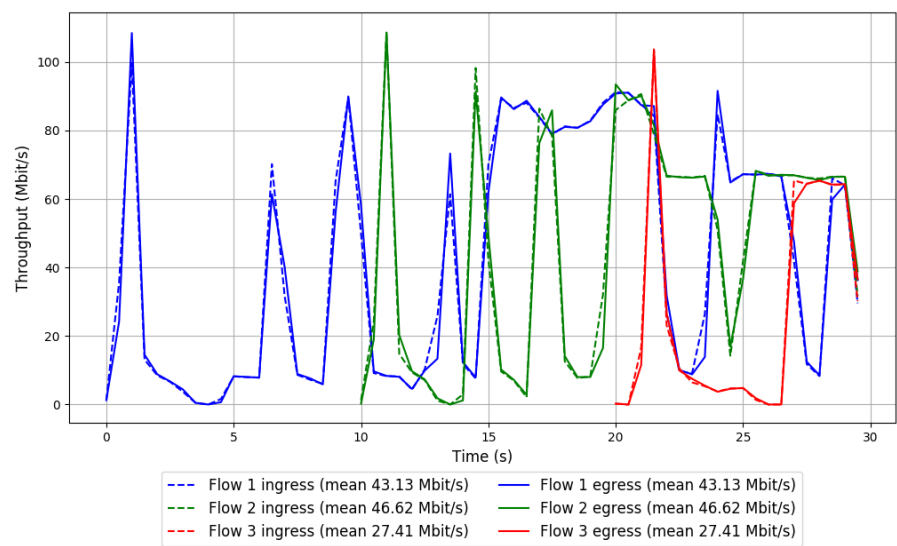
-- Flow 3:

Average throughput: 27.41 Mbit/s

95th percentile per-packet one-way delay: 50.406 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.47 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 53.675 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 53.467 ms

Loss rate: 0.00%

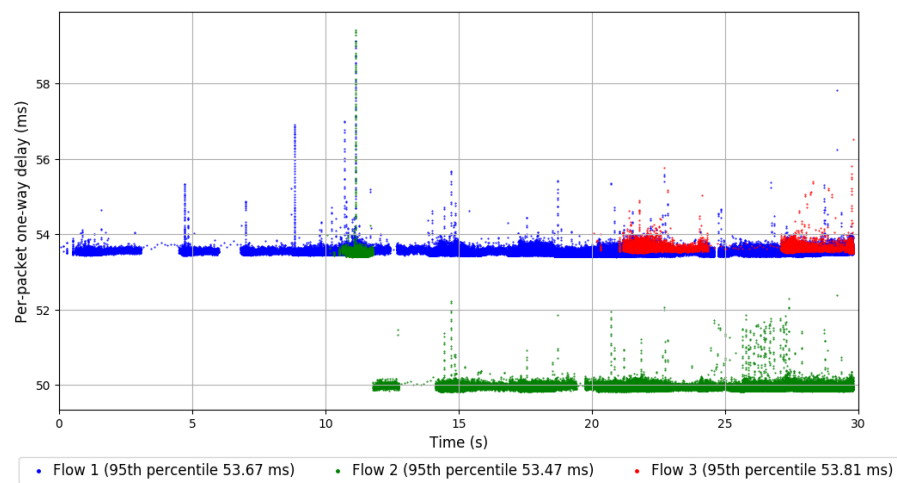
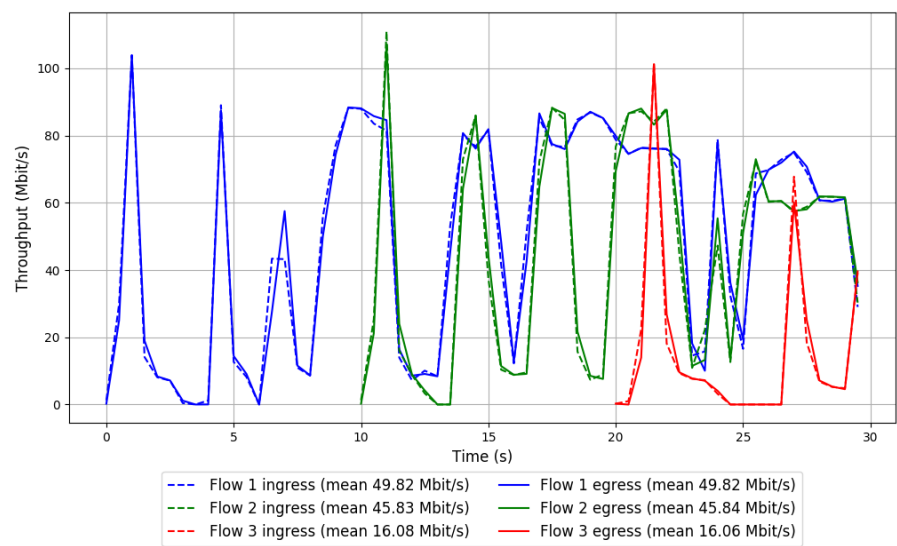
-- Flow 3:

Average throughput: 16.06 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.09%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-03 02:07:24

End at: 2018-01-03 02:07:54

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.95 Mbit/s

95th percentile per-packet one-way delay: 53.659 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 53.644 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.98 Mbit/s

95th percentile per-packet one-way delay: 53.684 ms

Loss rate: 0.01%

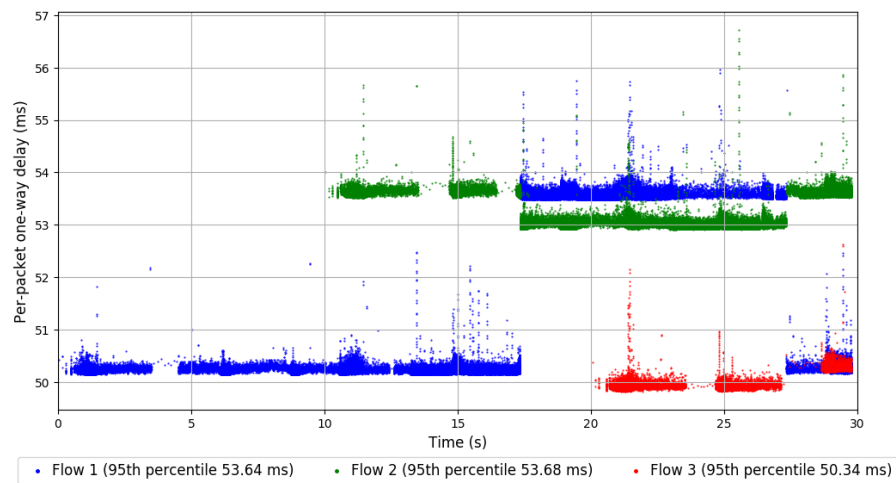
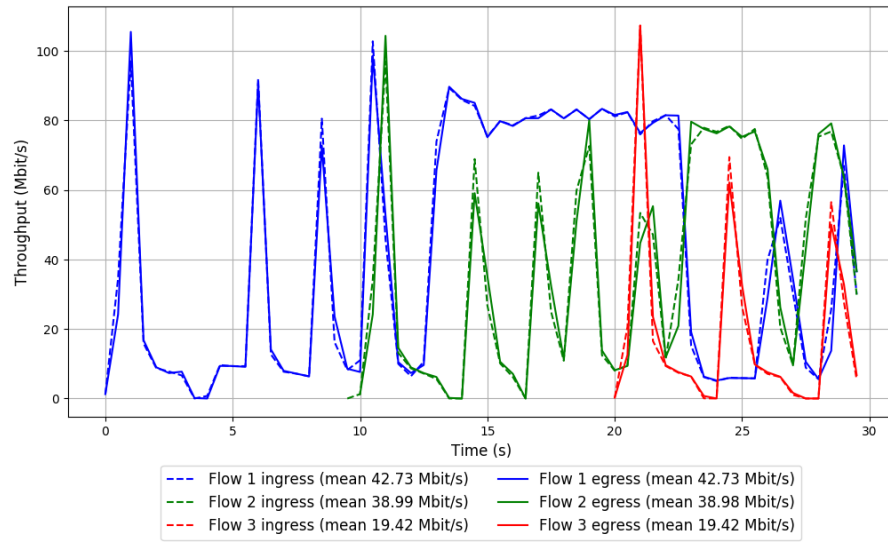
-- Flow 3:

Average throughput: 19.42 Mbit/s

95th percentile per-packet one-way delay: 50.337 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-03 02:21:23

End at: 2018-01-03 02:21:53

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.25 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.35 Mbit/s

95th percentile per-packet one-way delay: 50.296 ms

Loss rate: 0.00%

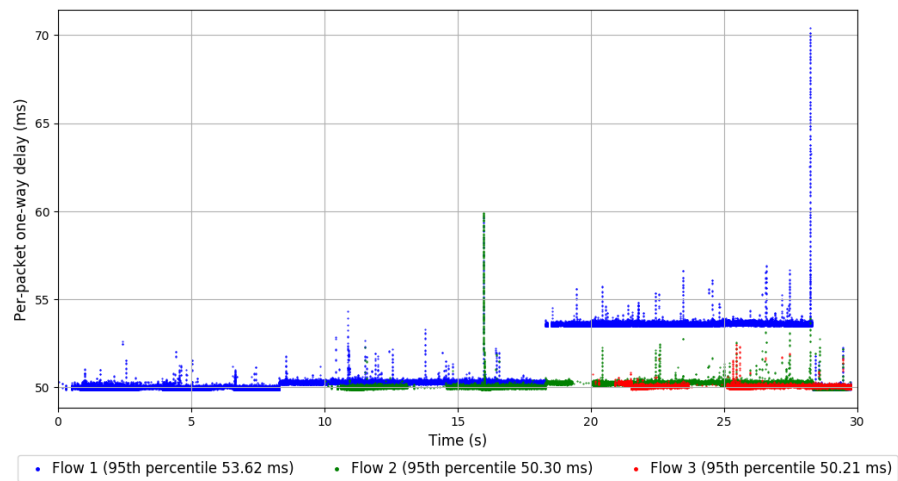
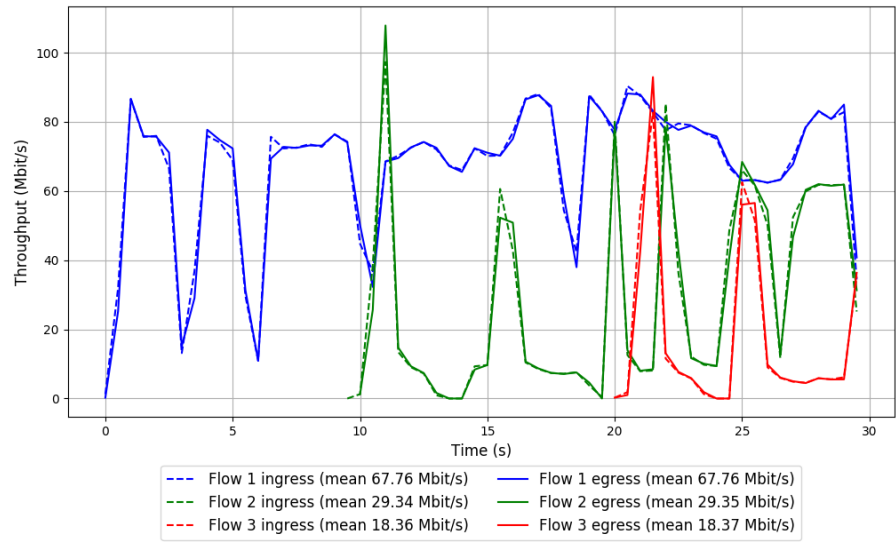
-- Flow 3:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-03 02:33:32

End at: 2018-01-03 02:34:02

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: 54.042 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.06 Mbit/s

95th percentile per-packet one-way delay: 54.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.16 Mbit/s

95th percentile per-packet one-way delay: 53.254 ms

Loss rate: 0.00%

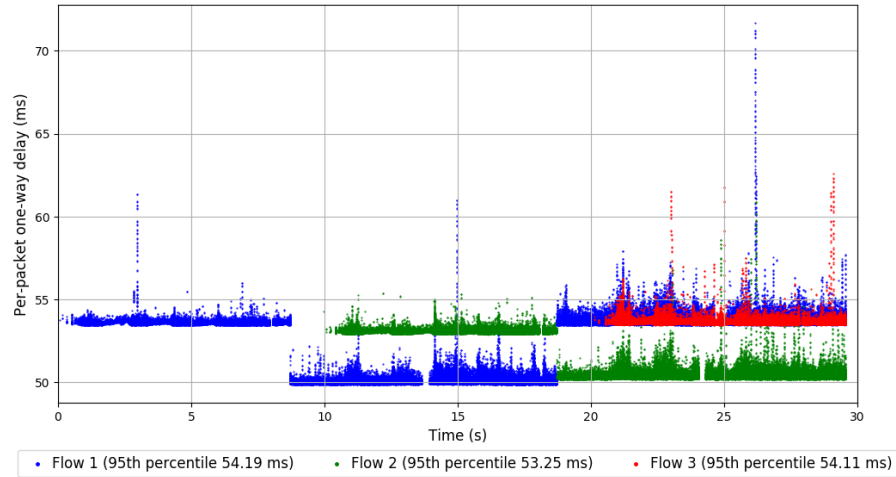
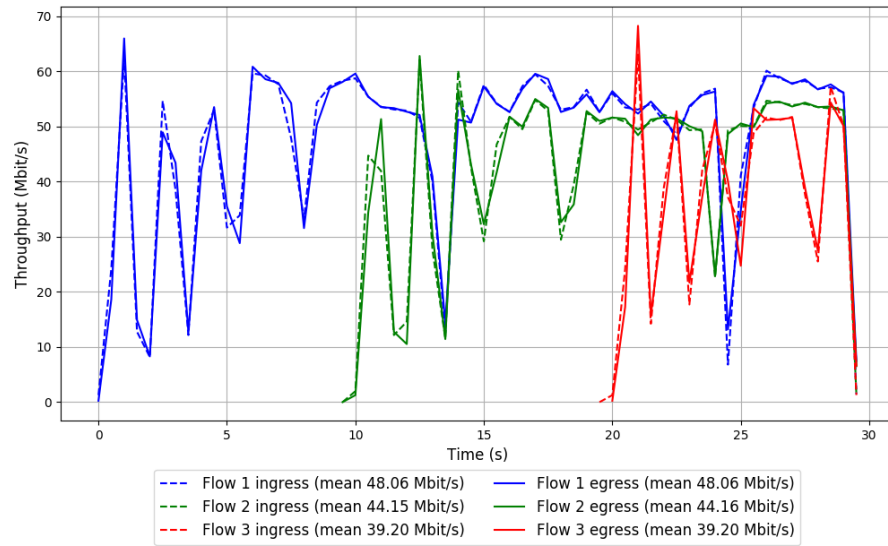
-- Flow 3:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 54.111 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-03 02:47:06

End at: 2018-01-03 02:47:36

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.67 Mbit/s

95th percentile per-packet one-way delay: 53.565 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.37 Mbit/s

95th percentile per-packet one-way delay: 50.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.00%

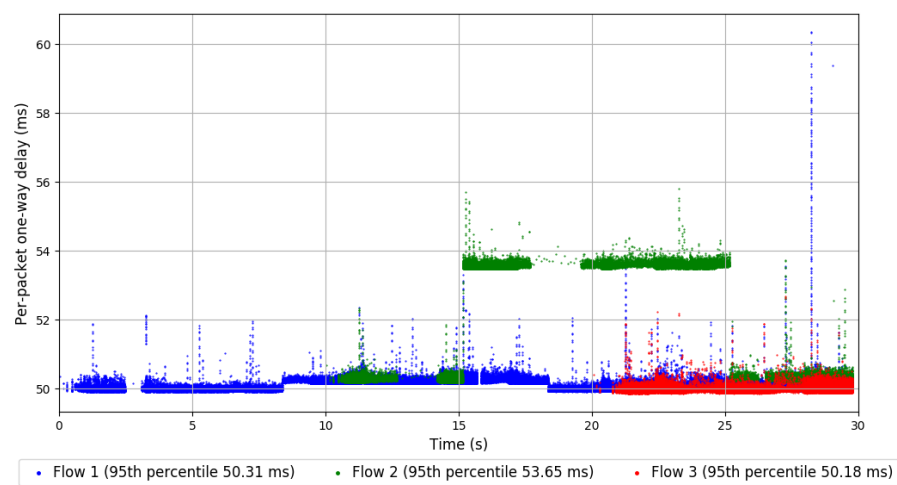
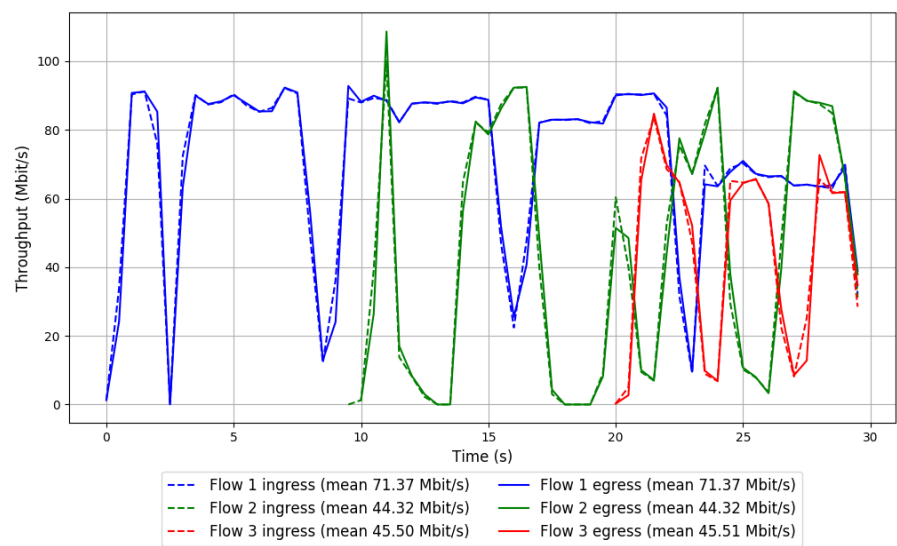
-- Flow 3:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.22 Mbit/s

95th percentile per-packet one-way delay: 53.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.76 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 53.518 ms

Loss rate: 0.00%

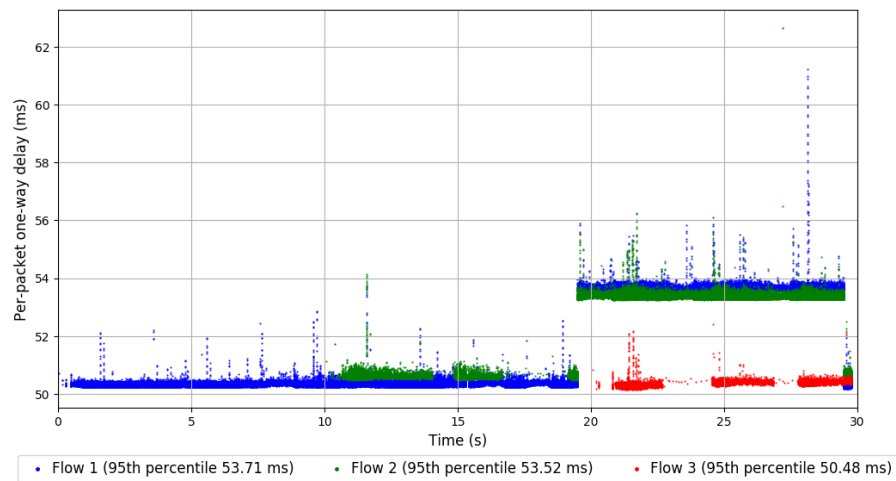
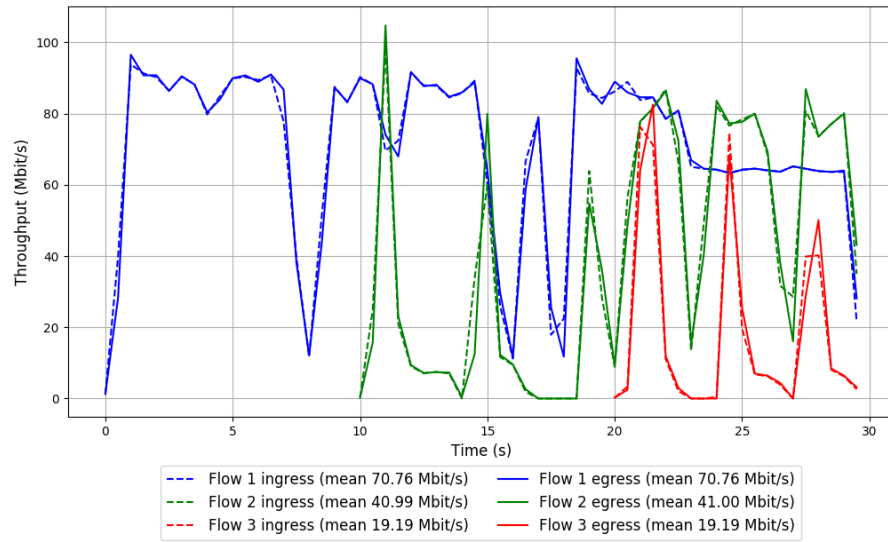
-- Flow 3:

Average throughput: 19.19 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-03 03:14:51

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

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 53.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.82 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 52.021 ms

Loss rate: 0.00%

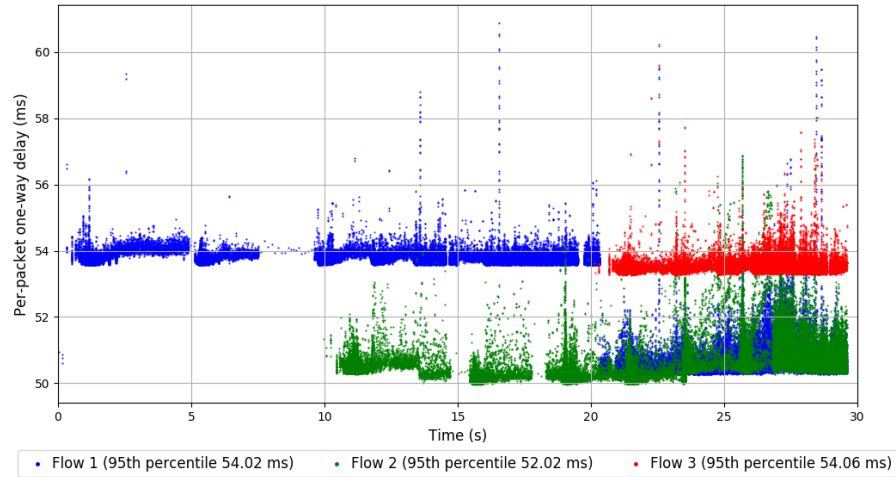
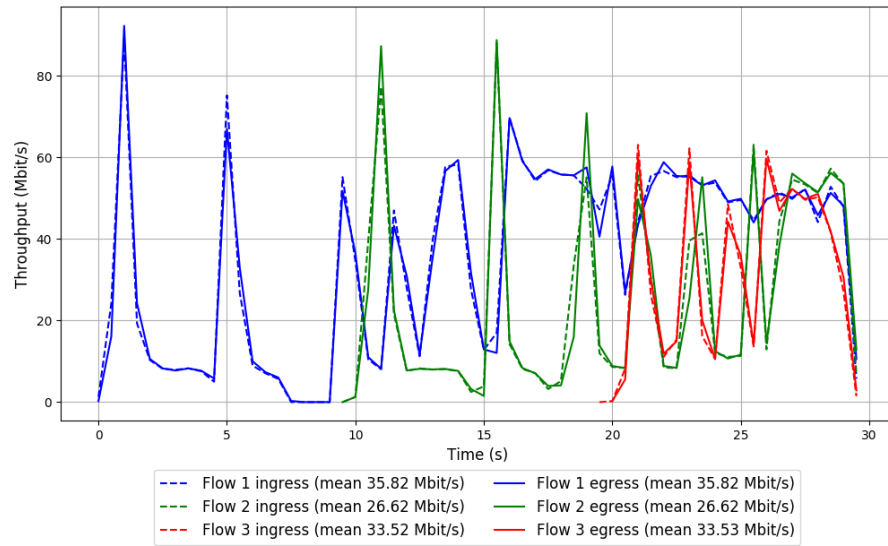
-- Flow 3:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 54.062 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

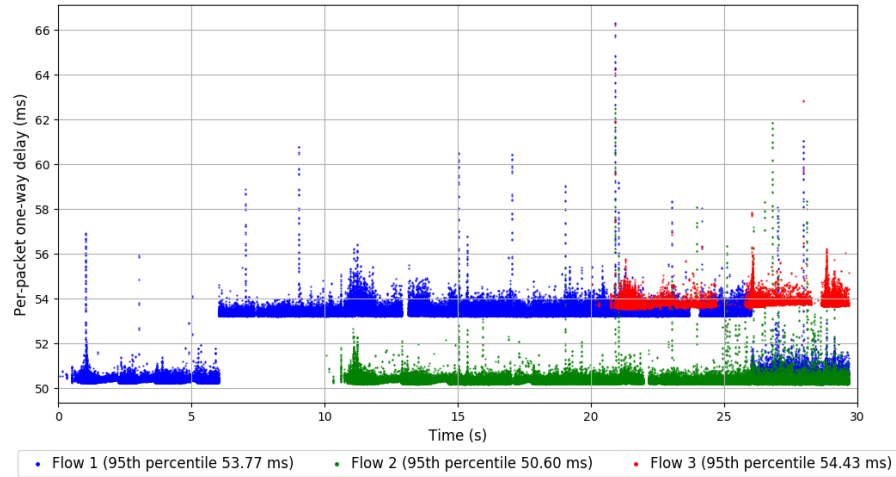
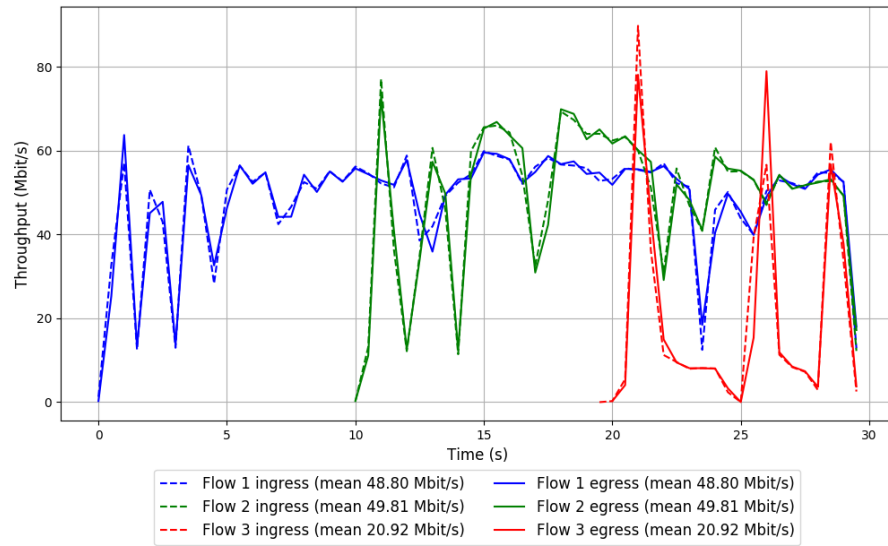


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-03 03:28:28
End at: 2018-01-03 03:28:58

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.57 Mbit/s
95th percentile per-packet one-way delay: 53.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 50.599 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 54.434 ms
Loss rate: 0.01%
```

Run 10: Report of QUIC Cubic — Data Link

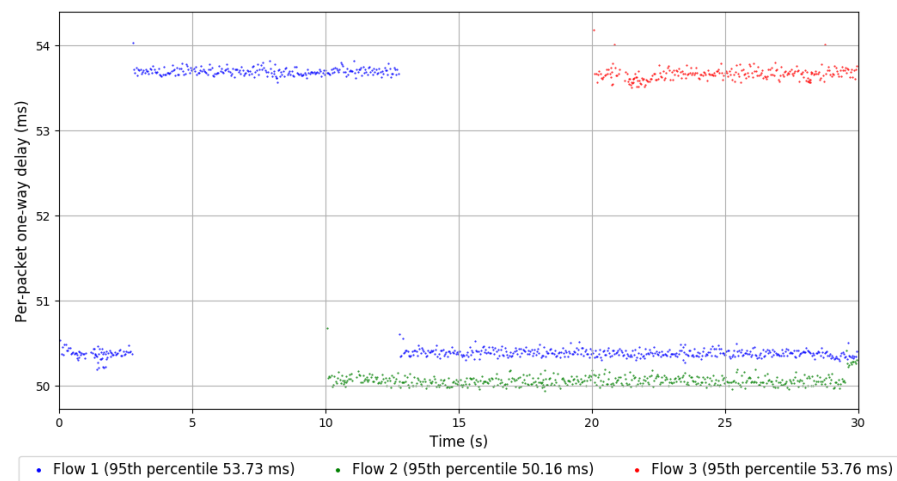
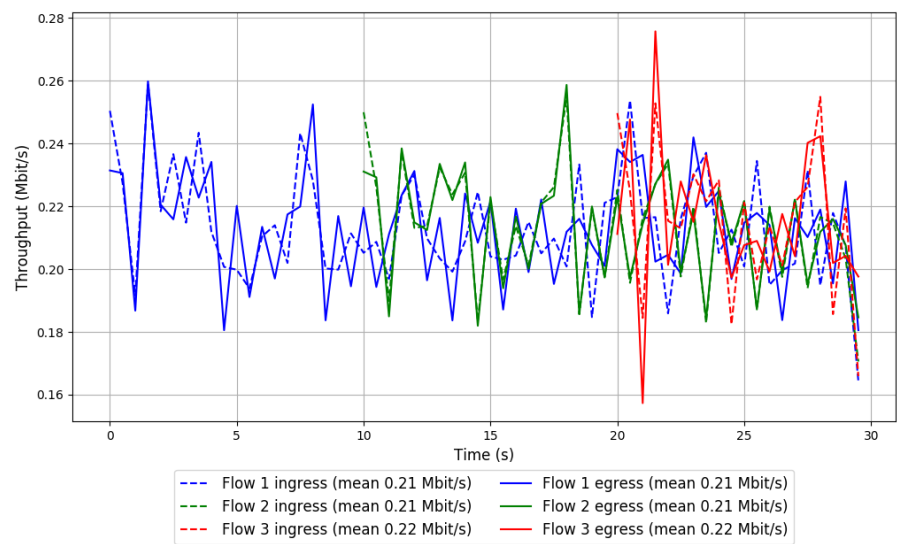


```
Run 1: Statistics of SCReAM

Start at: 2018-01-03 01:18:22
End at: 2018-01-03 01:18:52

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.160 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.761 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

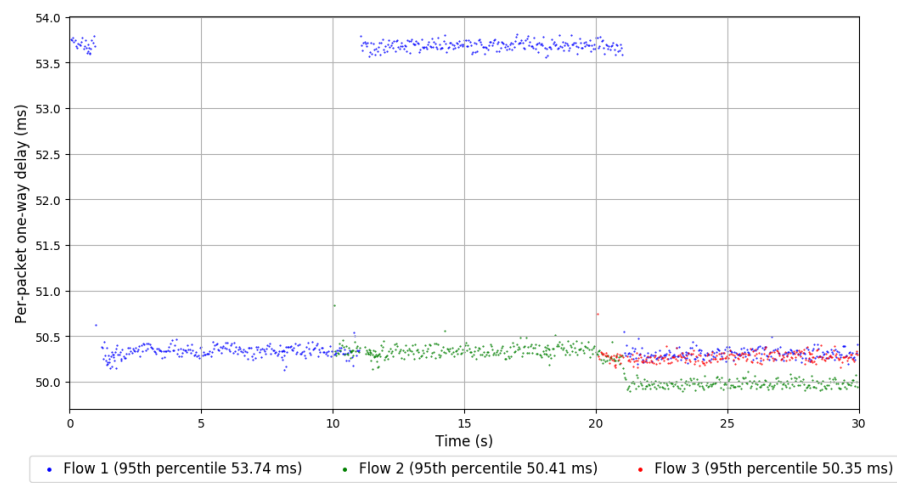
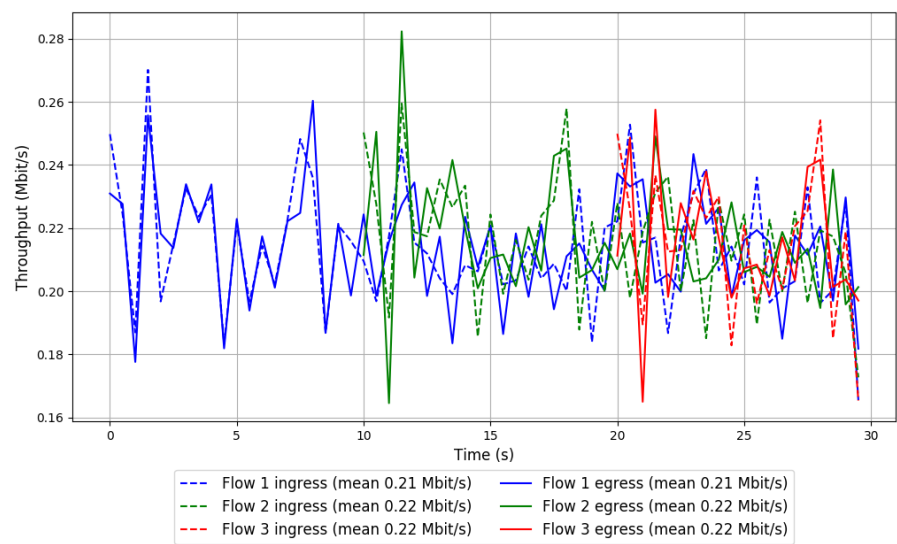


```
Run 2: Statistics of SReAM

Start at: 2018-01-03 01:32:00
End at: 2018-01-03 01:32:30

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.409 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.349 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

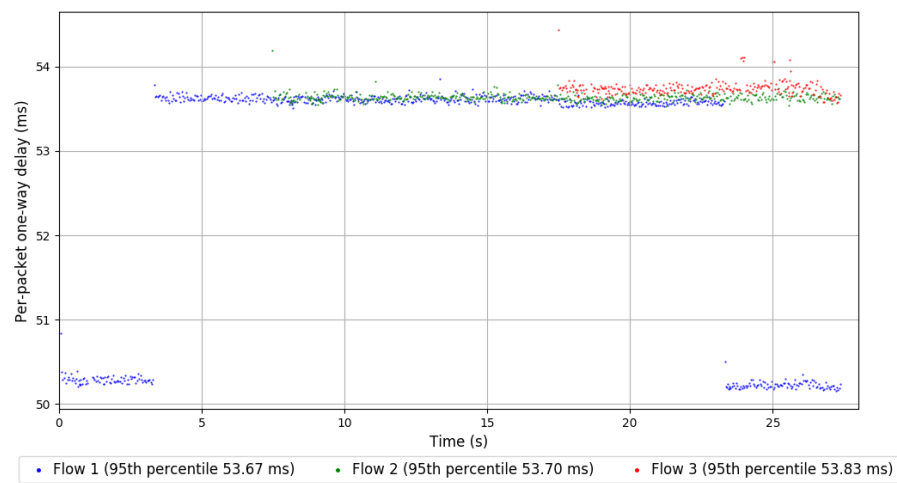
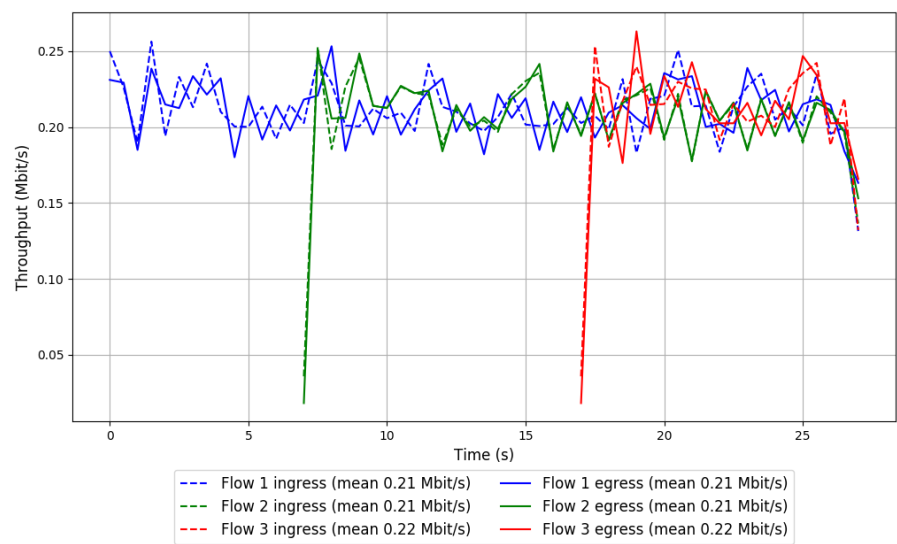


```
Run 3: Statistics of SCReAM

Start at: 2018-01-03 01:45:45
End at: 2018-01-03 01:46:15

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 53.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.696 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

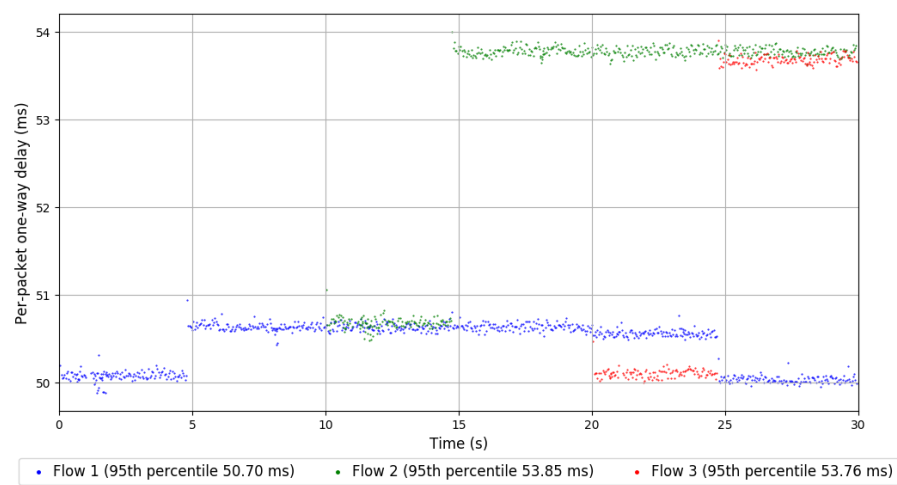
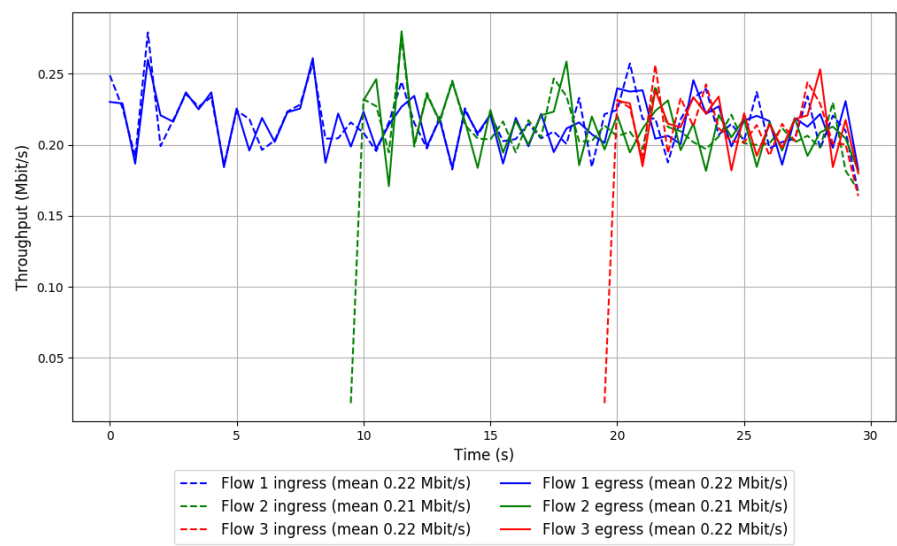


```
Run 4: Statistics of SCReAM

Start at: 2018-01-03 01:59:27
End at: 2018-01-03 01:59:57

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.850 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.757 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

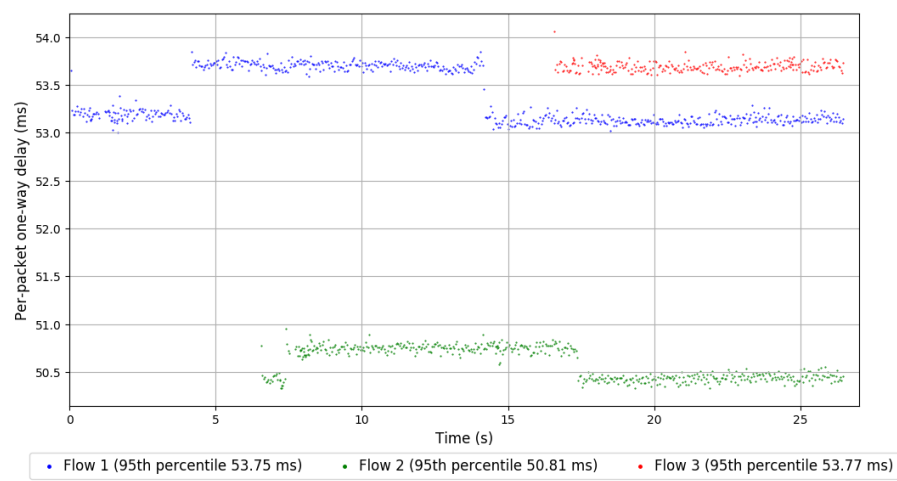
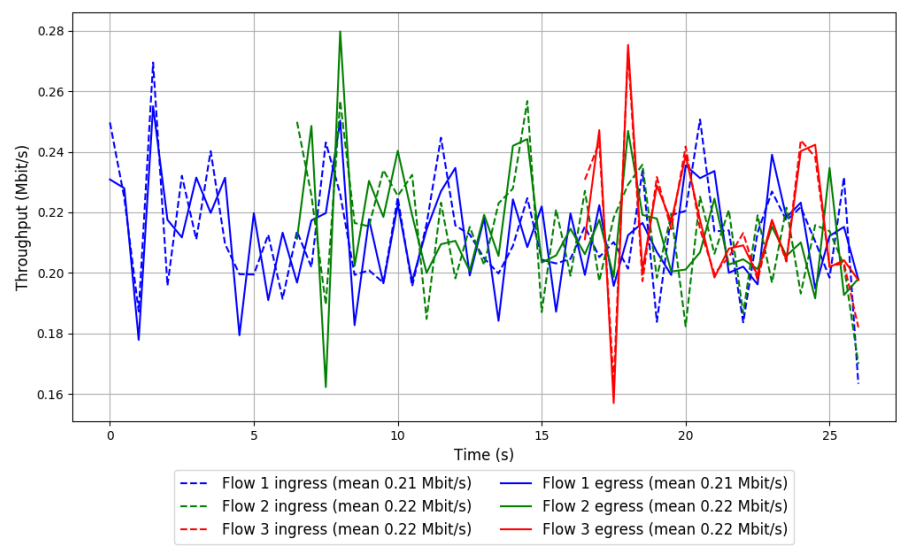


```
Run 5: Statistics of SReAM

Start at: 2018-01-03 02:13:34
End at: 2018-01-03 02:14:04

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 53.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.749 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.806 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.775 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link

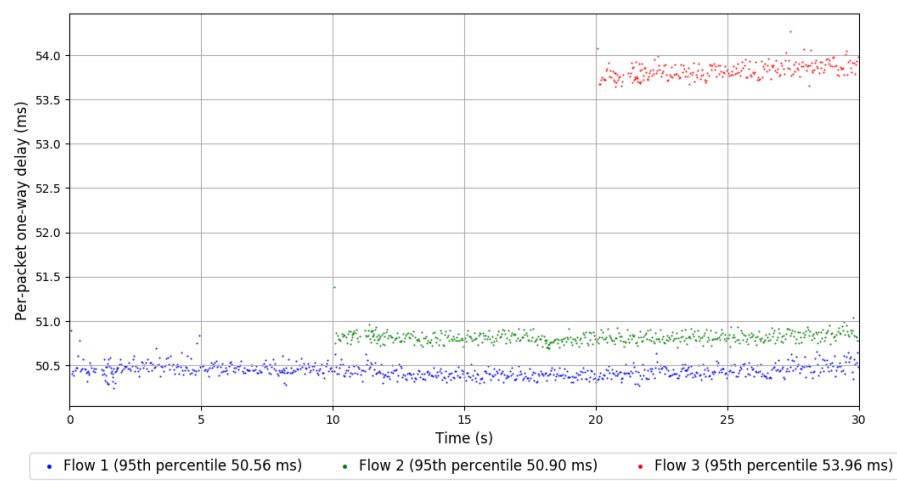
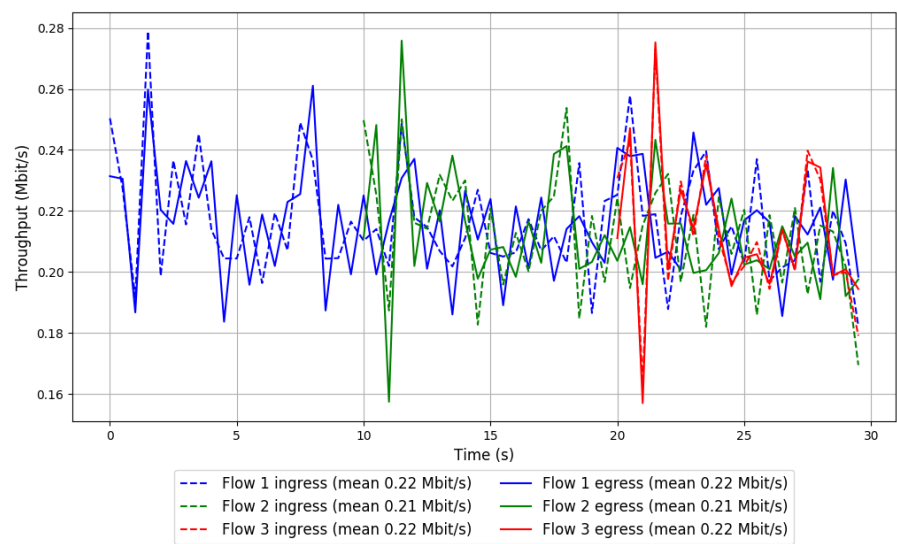


```
Run 6: Statistics of SCReAM

Start at: 2018-01-03 02:27:13
End at: 2018-01-03 02:27:43

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.958 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

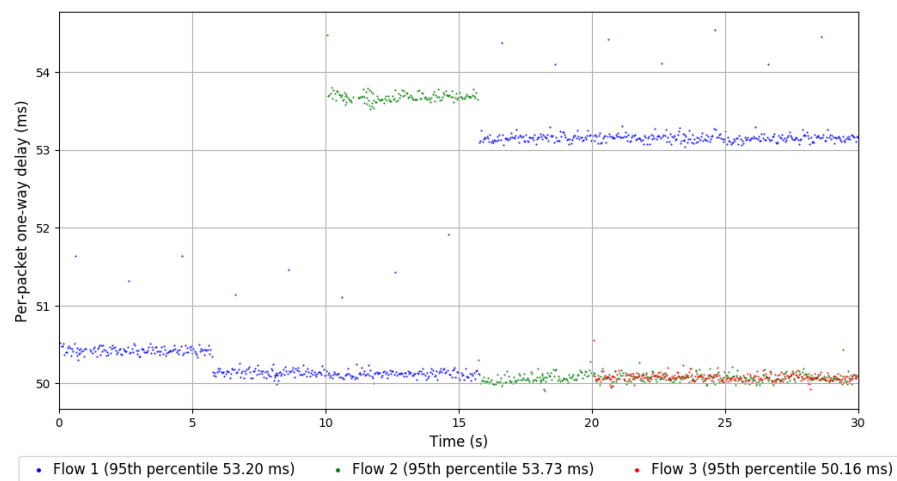
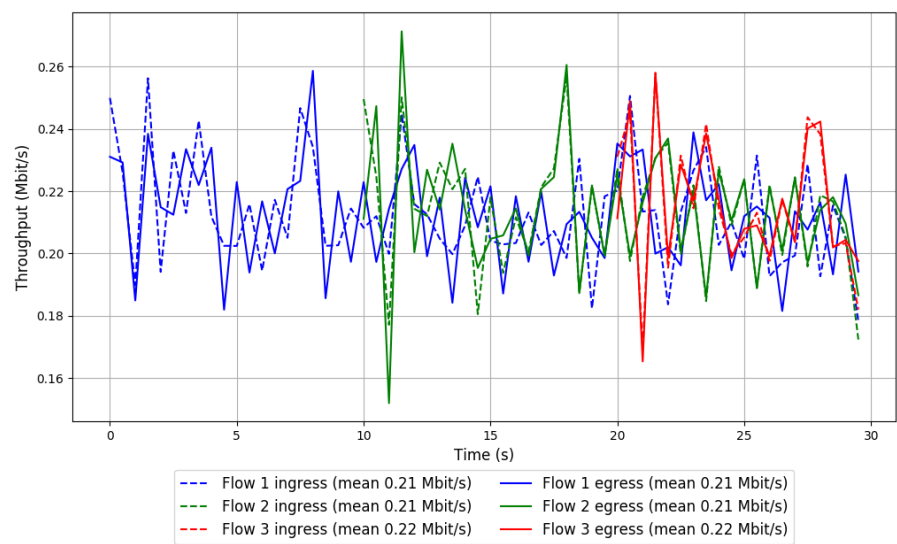


```
Run 7: Statistics of SCReAM

Start at: 2018-01-03 02:39:19
End at: 2018-01-03 02:39:49

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.155 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-03 02:53:16

End at: 2018-01-03 02:53:46

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 290.22 Mbit/s

95th percentile per-packet one-way delay: 1178.714 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.301 ms

Loss rate: 0.00%

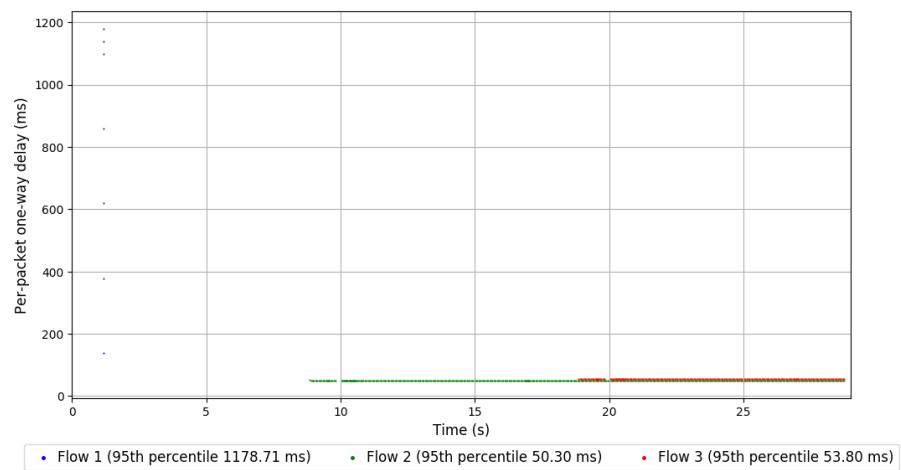
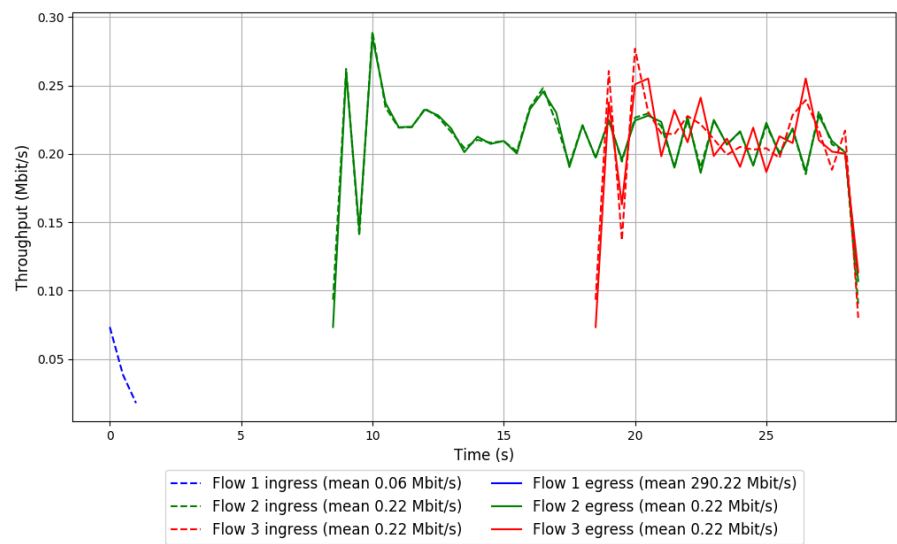
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

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

End at: 2018-01-03 03:07:37

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.921 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 257.72 Mbit/s

95th percentile per-packet one-way delay: 683.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.926 ms

Loss rate: 0.00%

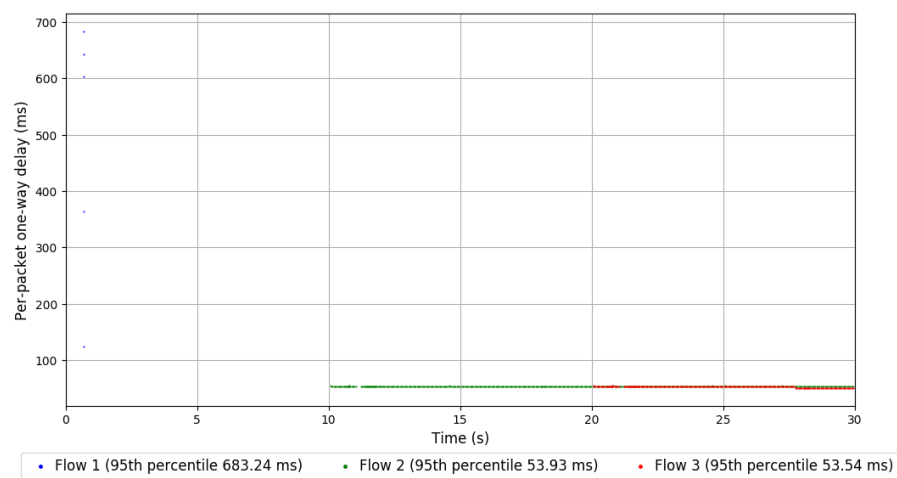
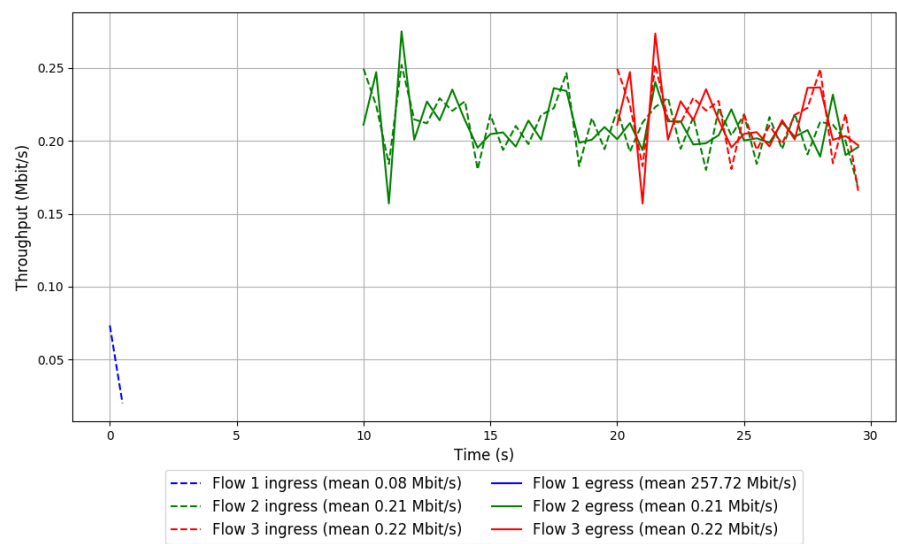
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link

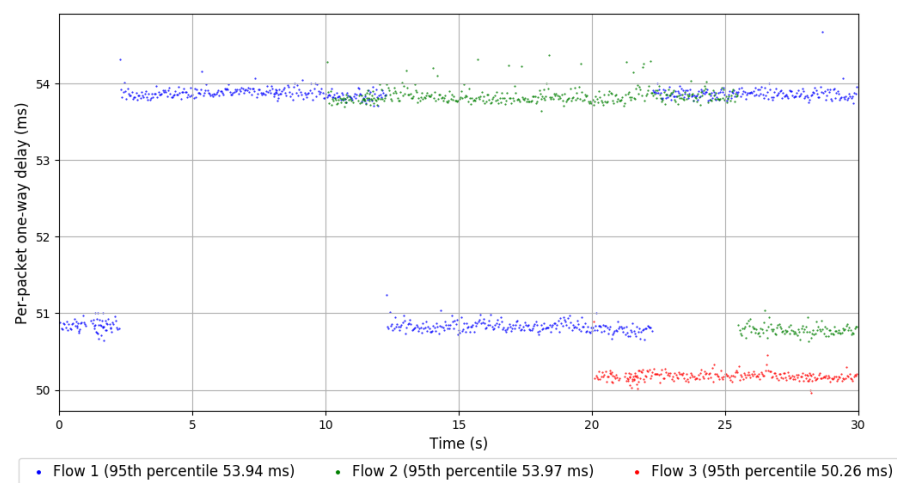
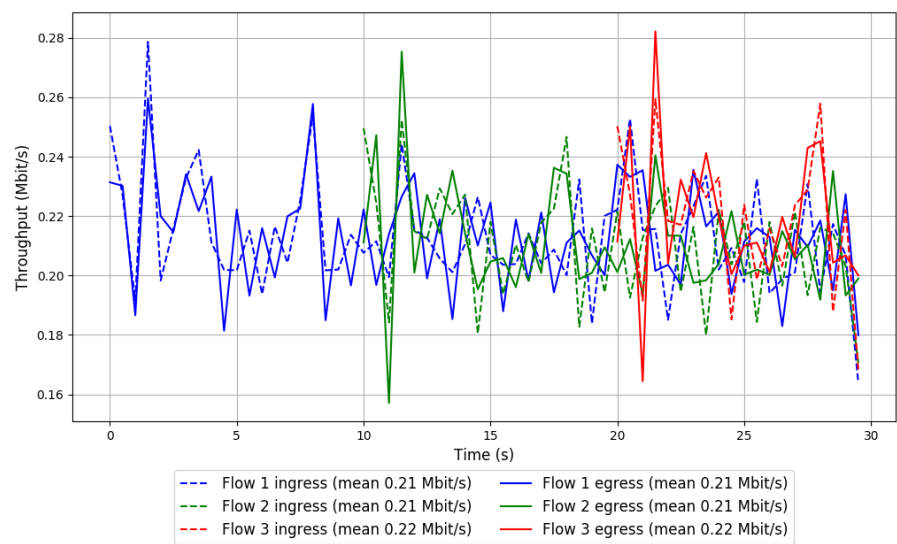


```
Run 10: Statistics of SReAM

Start at: 2018-01-03 03:20:39
End at: 2018-01-03 03:21:09

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.942 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.968 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.256 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

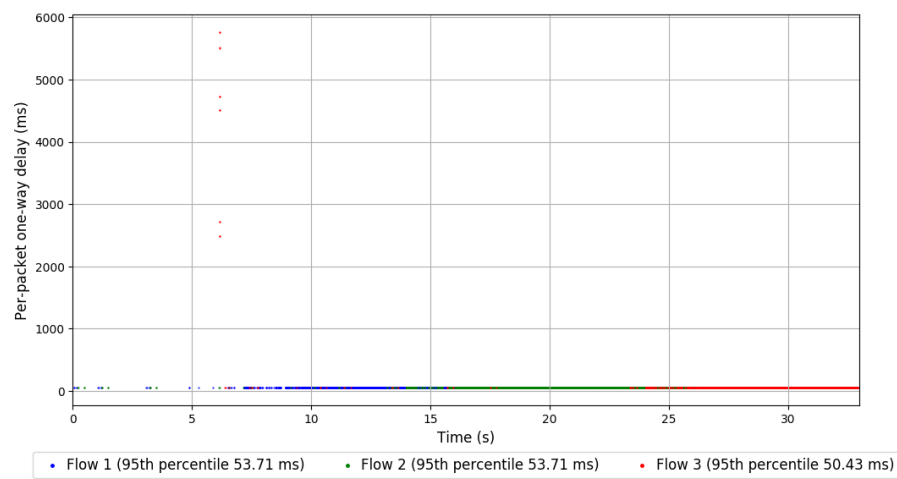
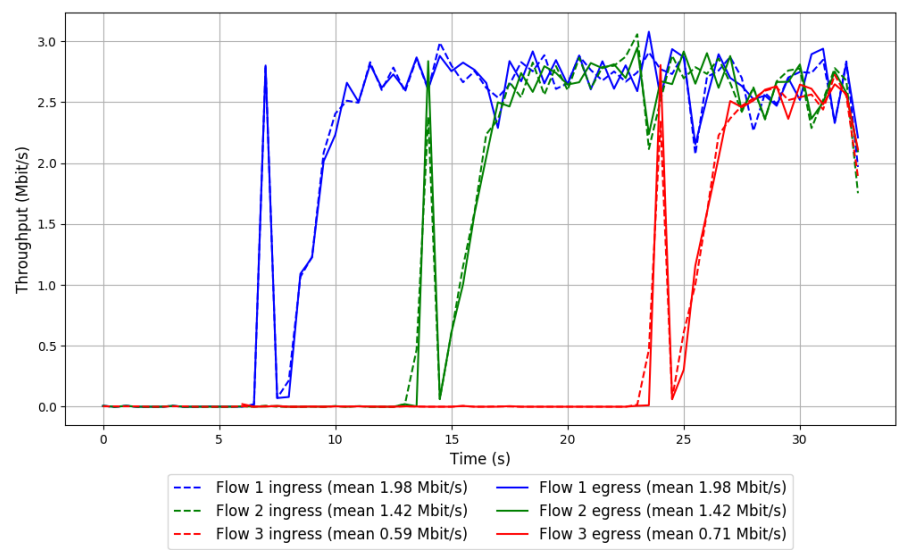


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-03 01:26:52
End at: 2018-01-03 01:27:22

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 53.709 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 50.429 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-03 01:40:21

End at: 2018-01-03 01:40:51

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 53.768 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.00%

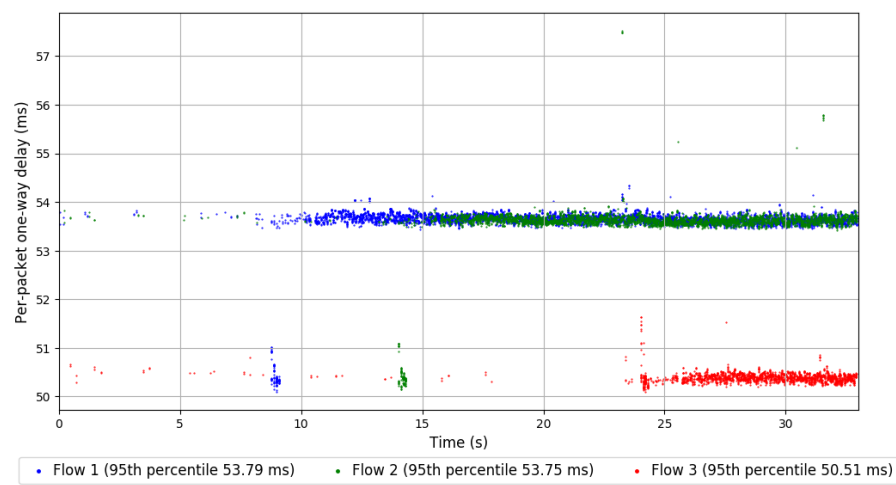
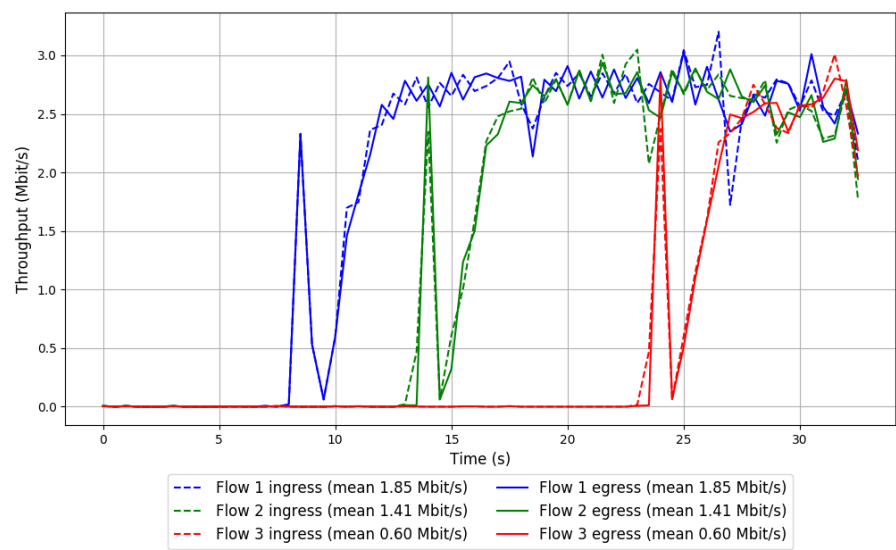
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.507 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-03 01:54:07

End at: 2018-01-03 01:54:37

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.00%

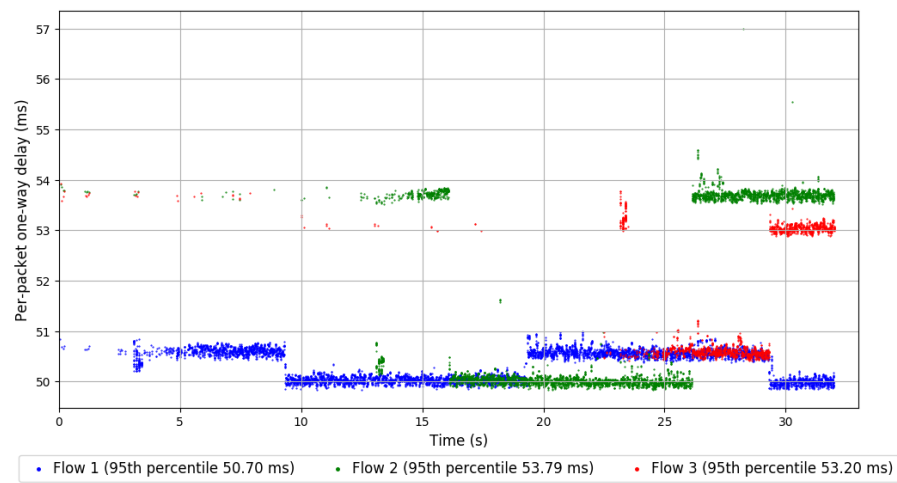
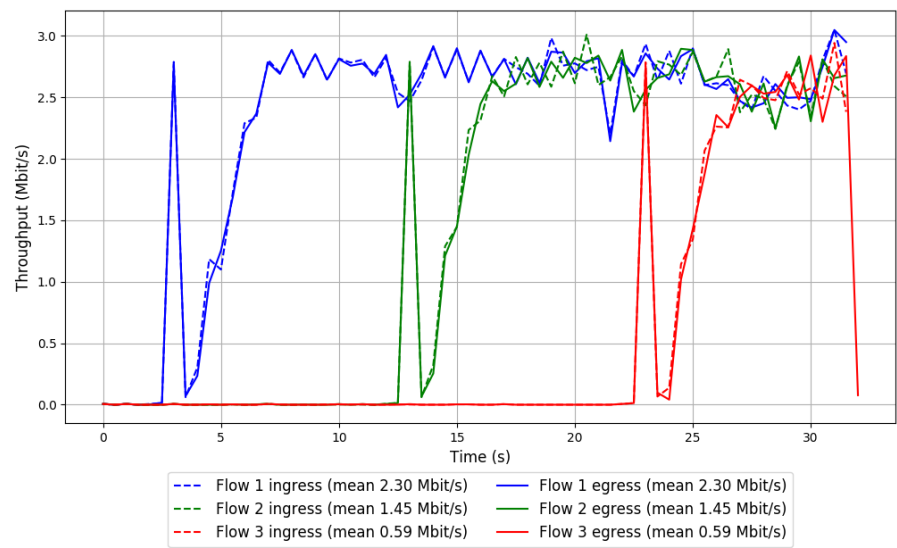
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.200 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

End at: 2018-01-03 02:08:38

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.863 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.00%

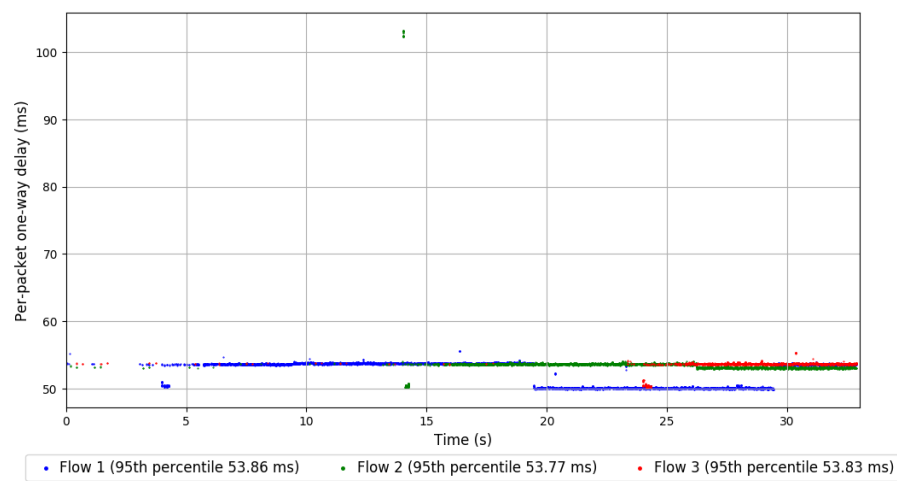
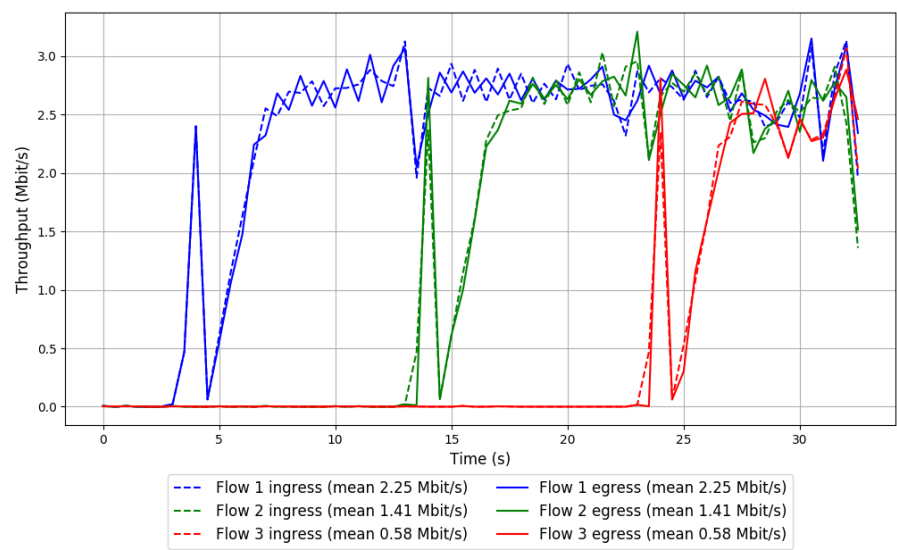
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.826 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-03 02:22:08

End at: 2018-01-03 02:22:38

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 53.893 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.944 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.874 ms

Loss rate: 0.00%

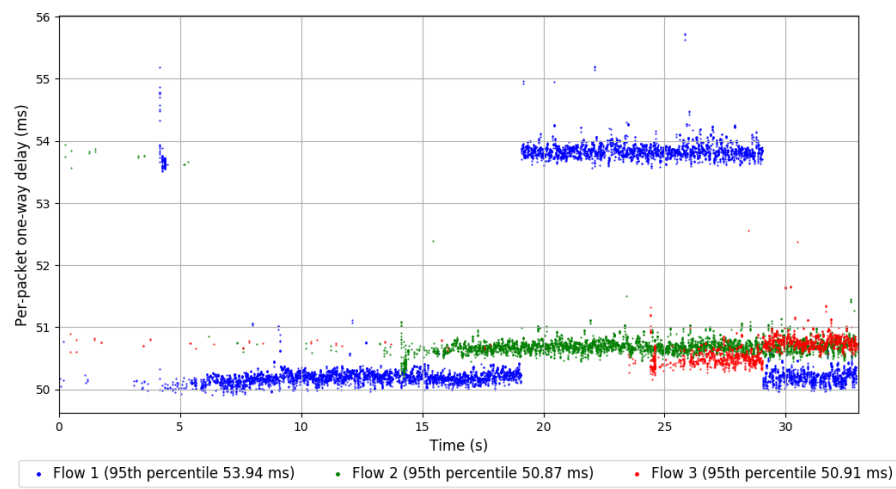
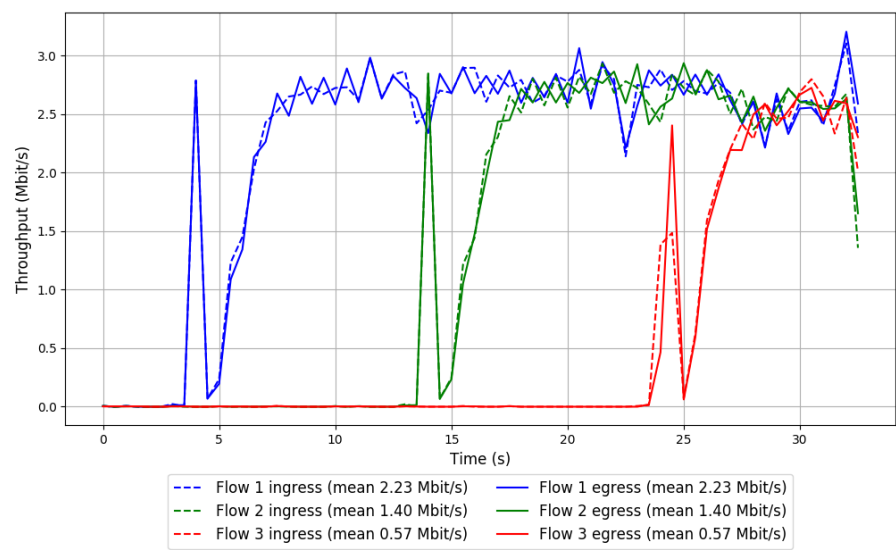
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.905 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-03 02:34:18

End at: 2018-01-03 02:34:48

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 54.287 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 51.260 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 54.538 ms

Loss rate: 0.00%

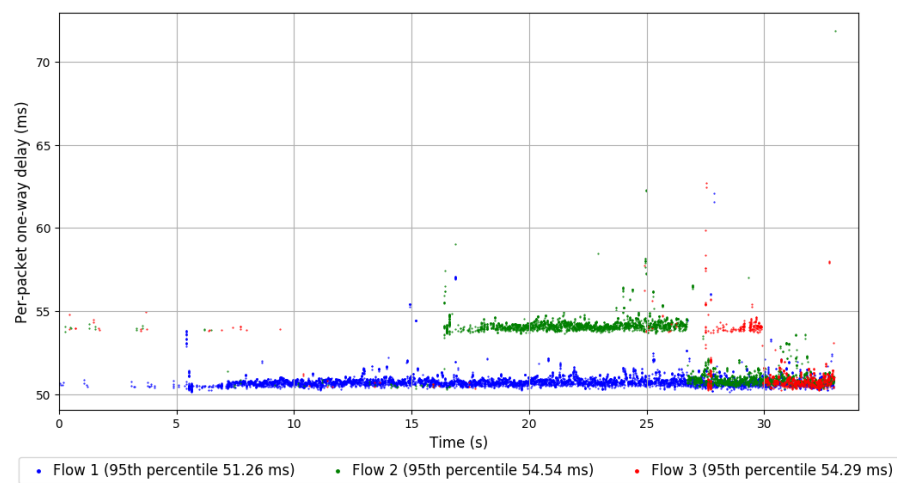
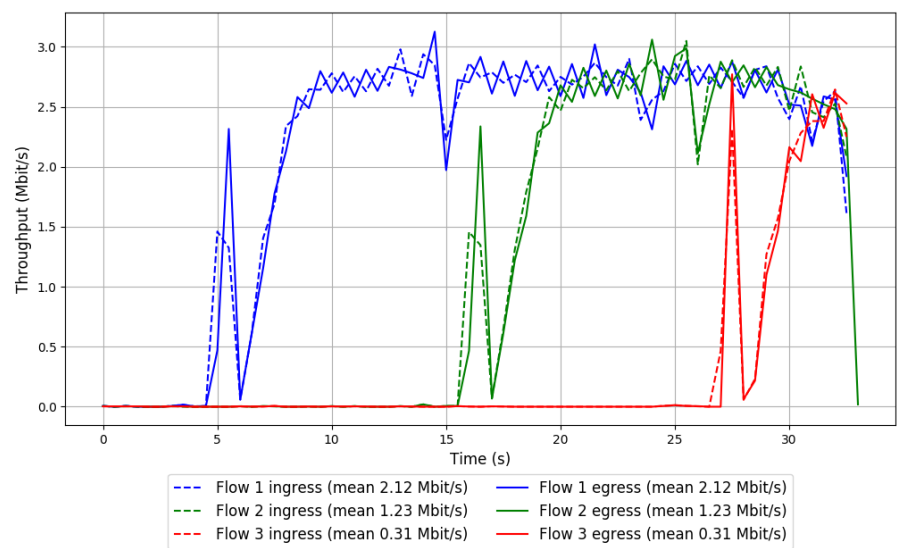
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 54.287 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-03 02:47:53

End at: 2018-01-03 02:48:23

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.803 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 0.00%

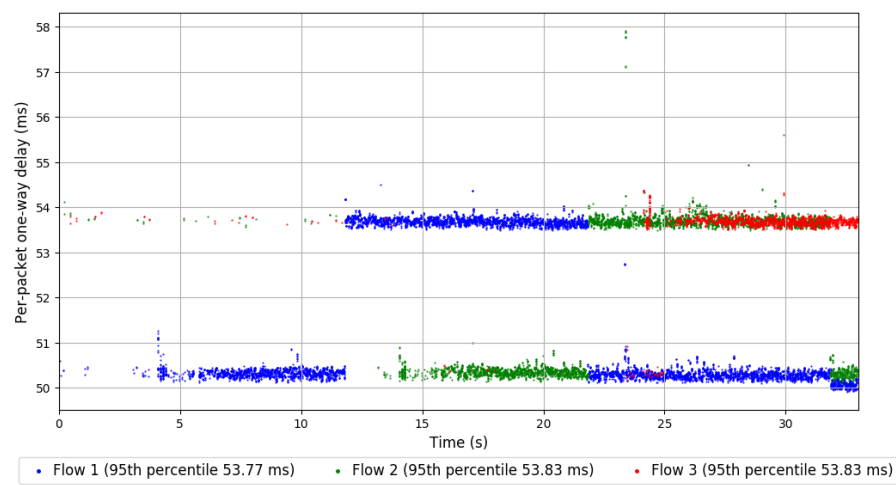
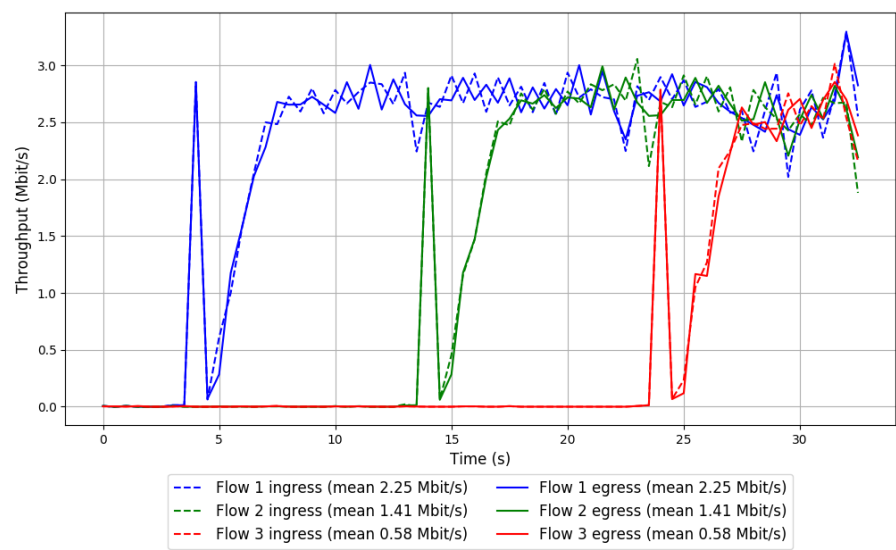
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.832 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.795 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.00%

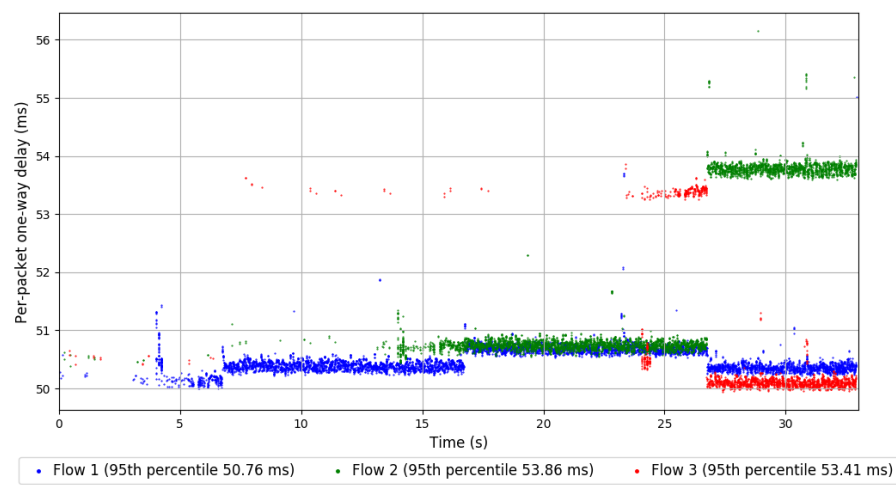
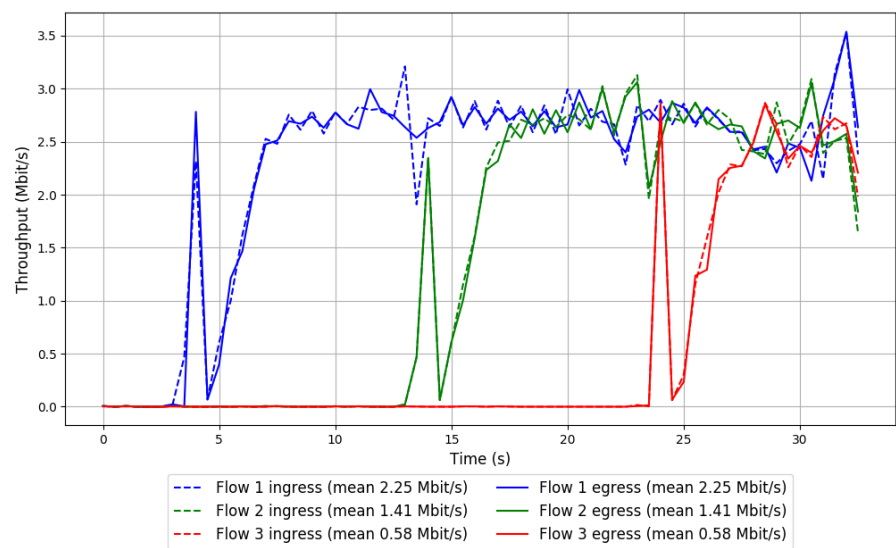
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.411 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-03 03:15:35

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

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 54.522 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 54.228 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 54.595 ms

Loss rate: 0.00%

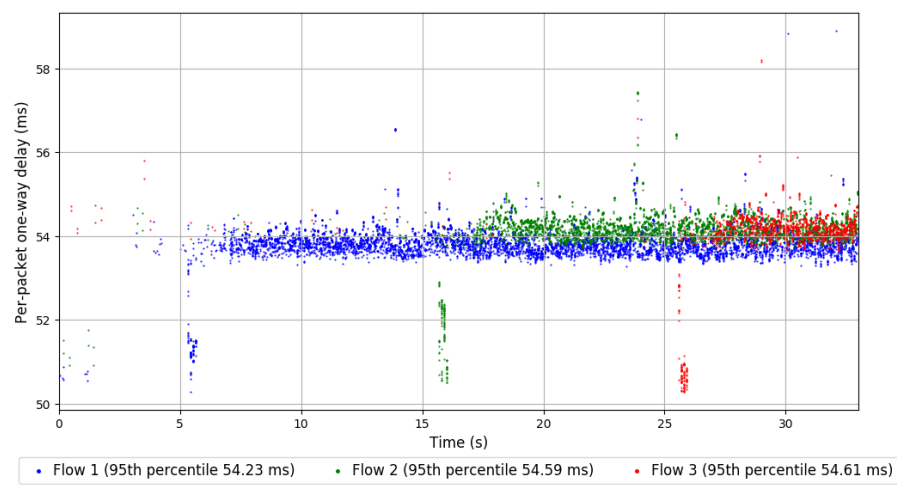
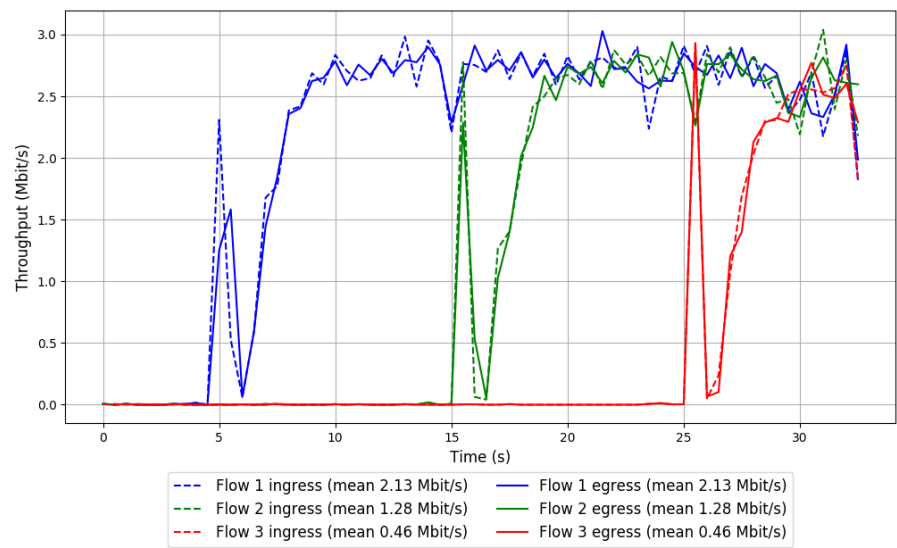
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 54.609 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-03 03:29:13

End at: 2018-01-03 03:29:43

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 54.022 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 54.244 ms

Loss rate: 0.00%

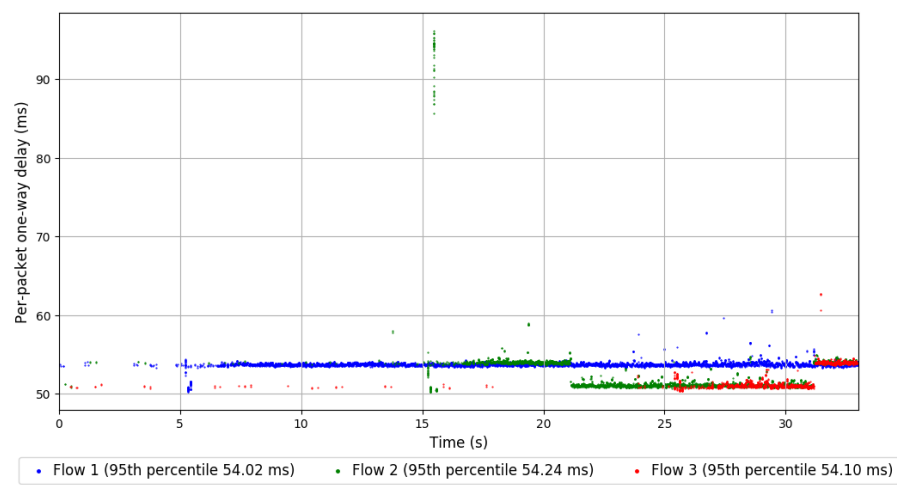
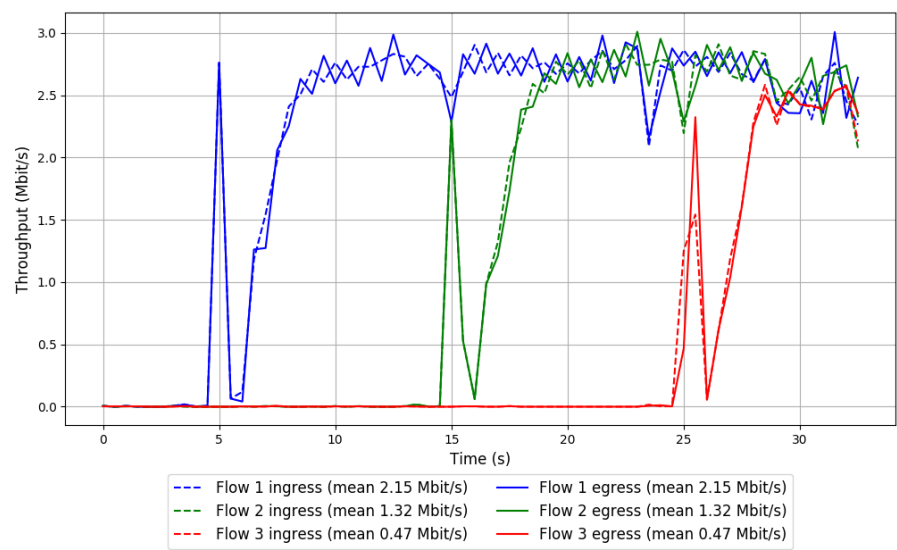
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 54.102 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

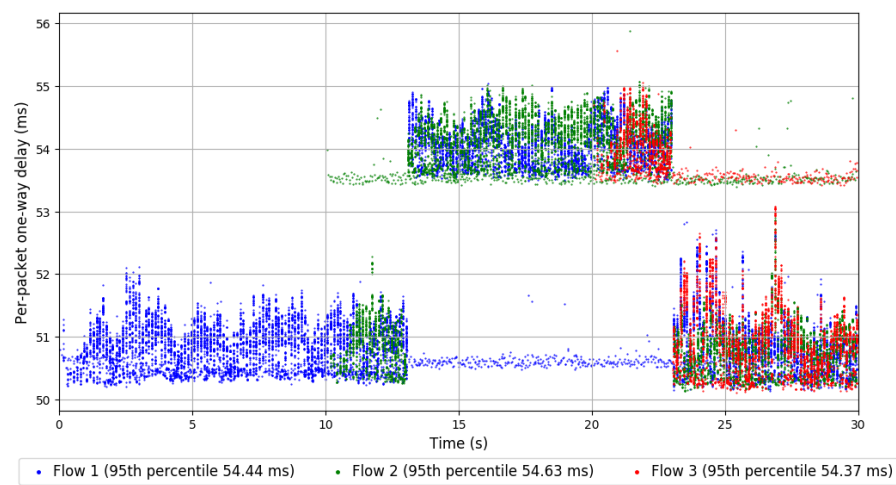
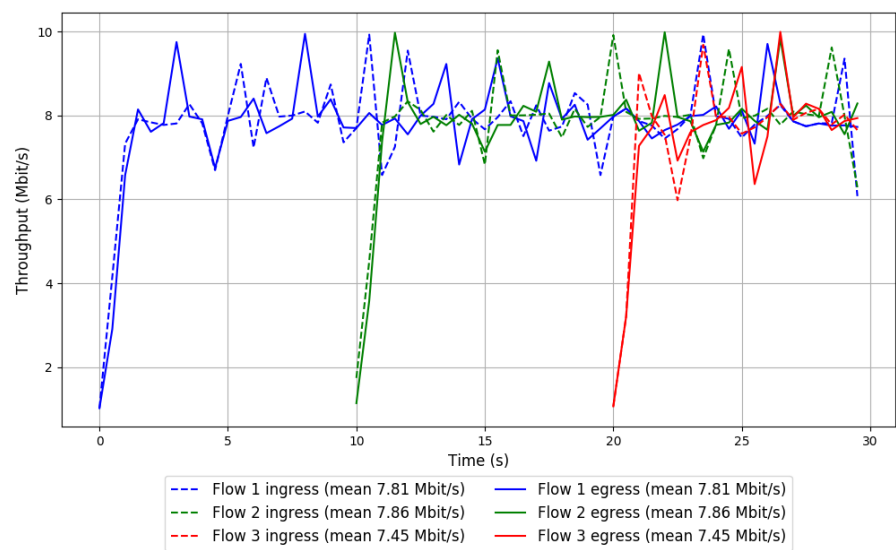


```
Run 1: Statistics of Sprout

Start at: 2018-01-03 01:29:22
End at: 2018-01-03 01:29:52

# Below is generated by plot.py at 2018-01-03 05:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 54.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 54.439 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 54.634 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 54.372 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-03 01:43:08

End at: 2018-01-03 01:43:38

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 54.415 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.328 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.332 ms

Loss rate: 0.00%

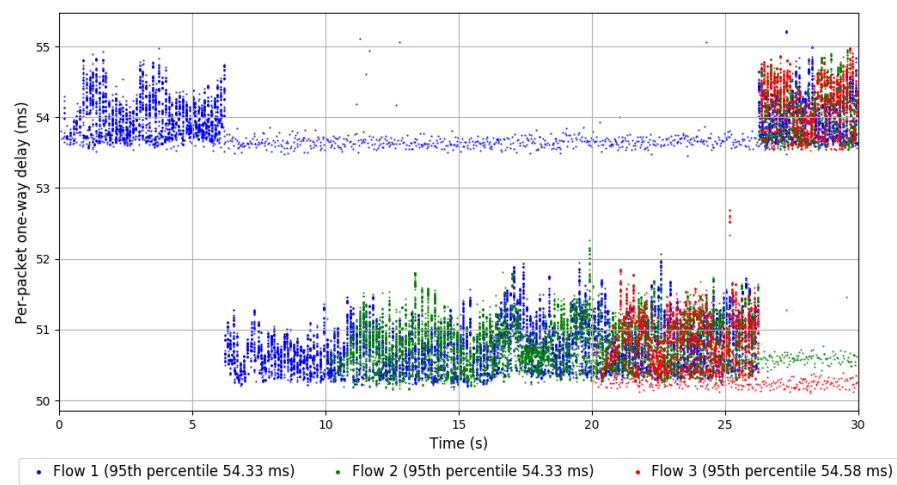
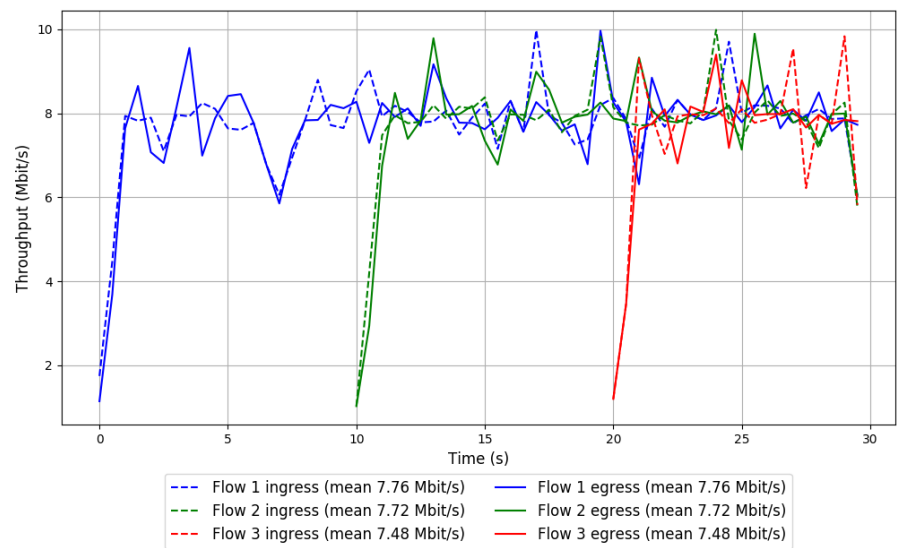
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-03 01:56:45

End at: 2018-01-03 01:57:15

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 52.826 ms

Loss rate: 0.00%

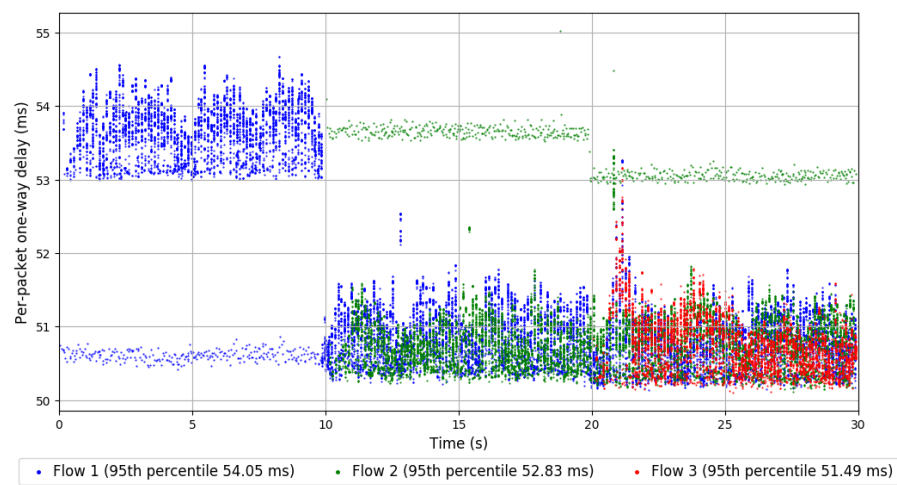
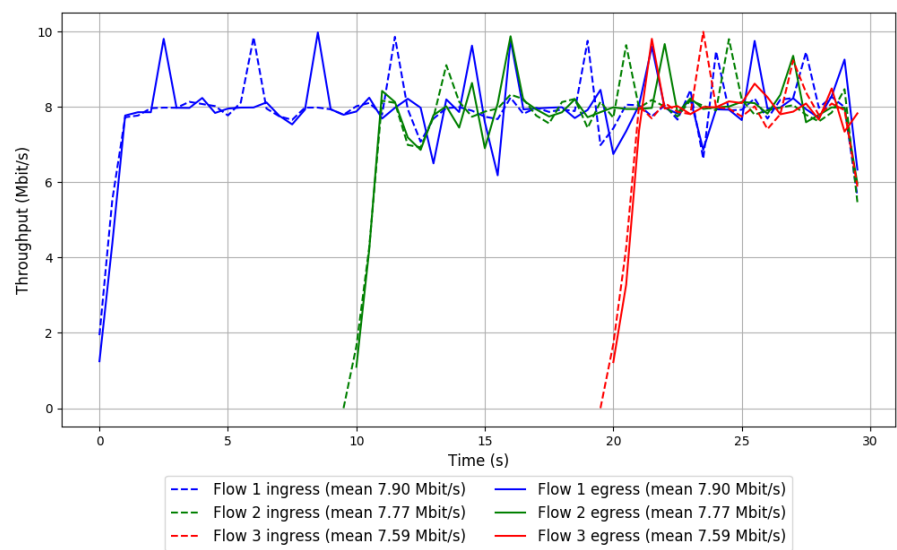
-- Flow 3:

Average throughput: 7.59 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-03 02:10:57

End at: 2018-01-03 02:11:27

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 53.945 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.942 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.055 ms

Loss rate: 0.00%

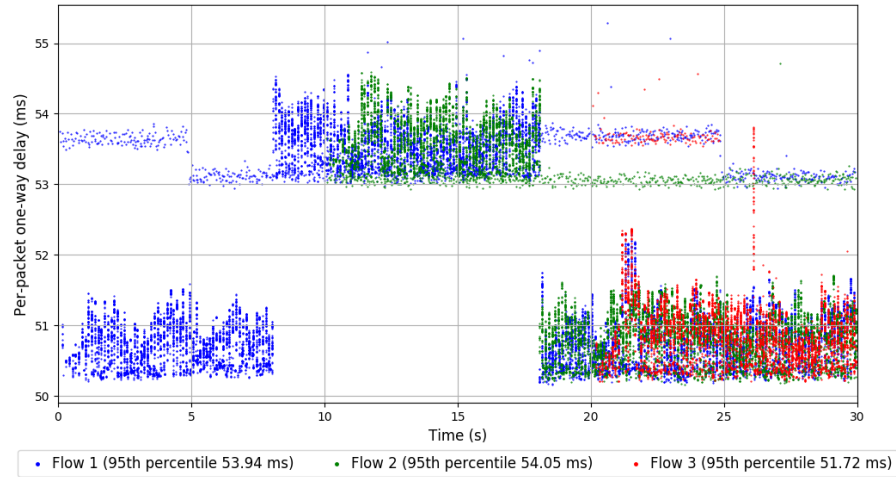
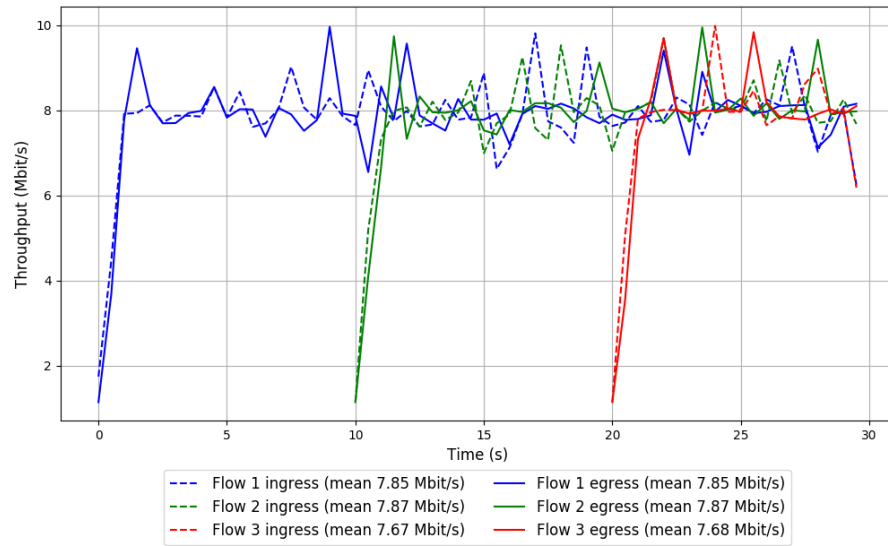
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 51.723 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-03 02:24:37

End at: 2018-01-03 02:25:07

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 54.256 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 54.294 ms

Loss rate: 0.07%

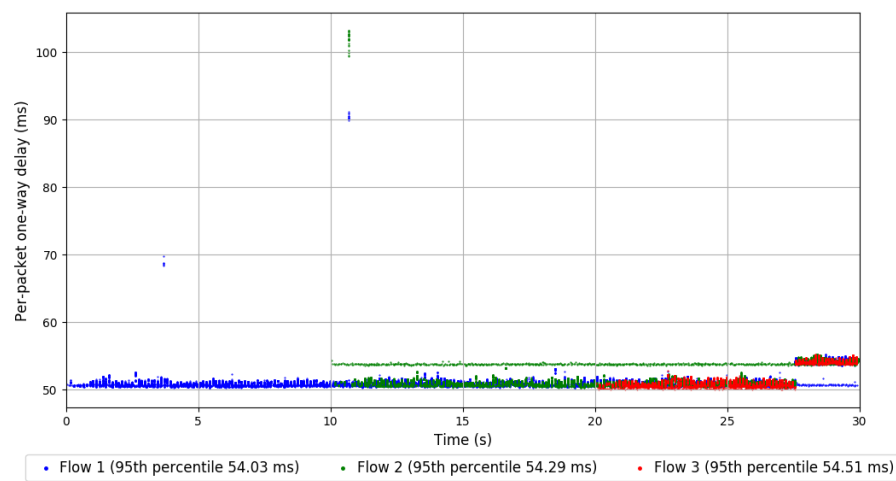
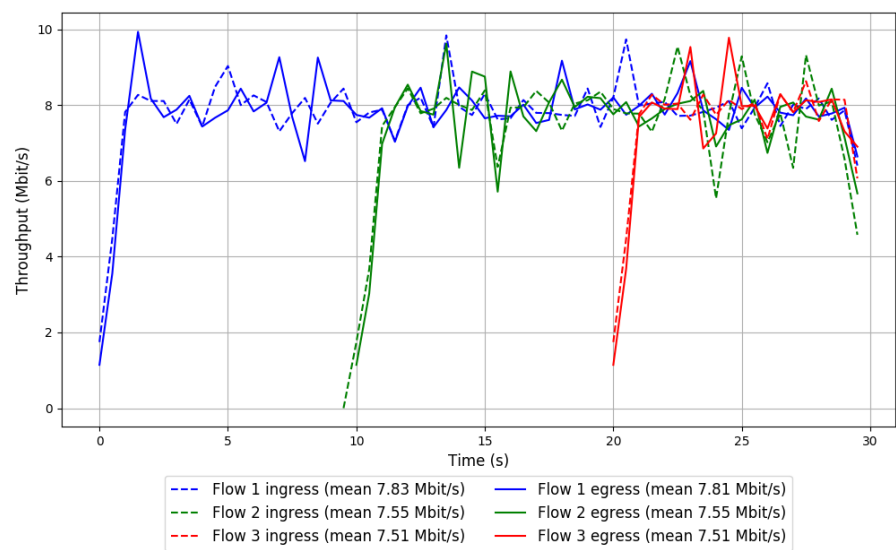
-- Flow 3:

Average throughput: 7.51 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-03 02:36:39

End at: 2018-01-03 02:37:09

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 54.603 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.570 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.687 ms

Loss rate: 0.00%

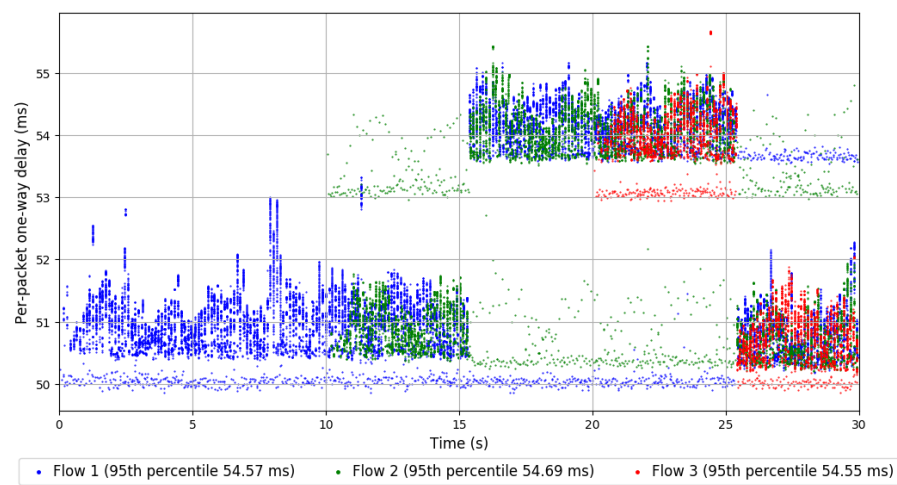
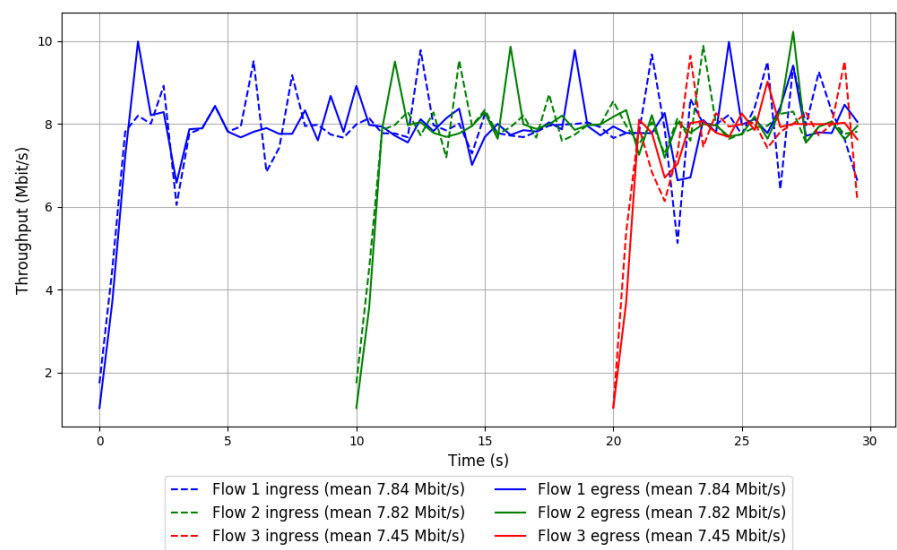
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.554 ms

Loss rate: 0.13%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-03 02:50:38

End at: 2018-01-03 02:51:08

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 51.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 51.503 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 51.657 ms

Loss rate: 0.00%

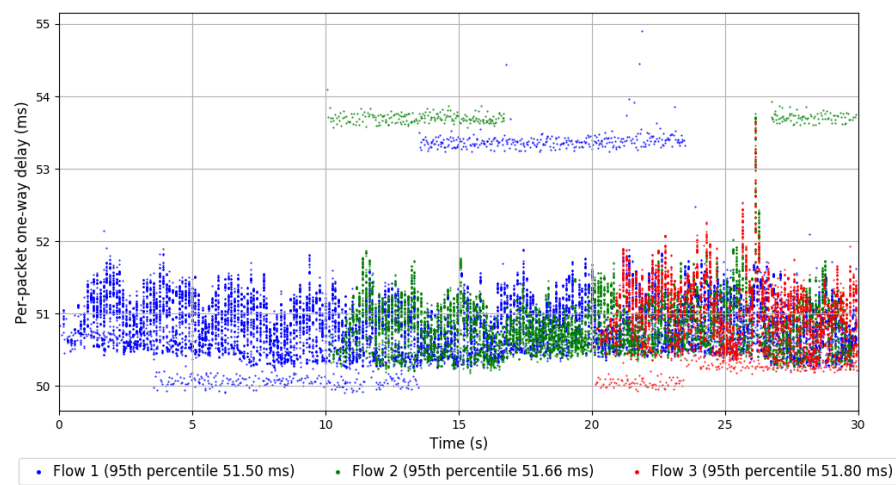
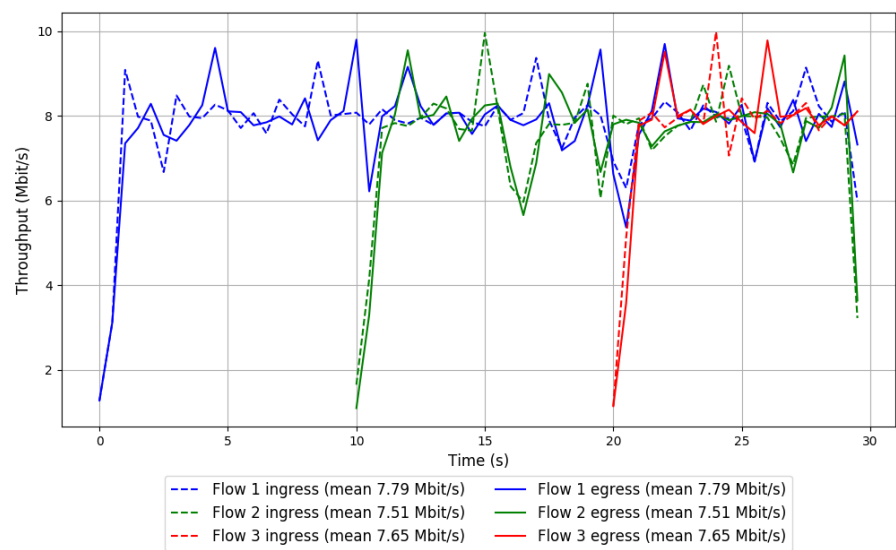
-- Flow 3:

Average throughput: 7.65 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-03 03:04:27

End at: 2018-01-03 03:04:57

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 51.904 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 52.199 ms

Loss rate: 0.00%

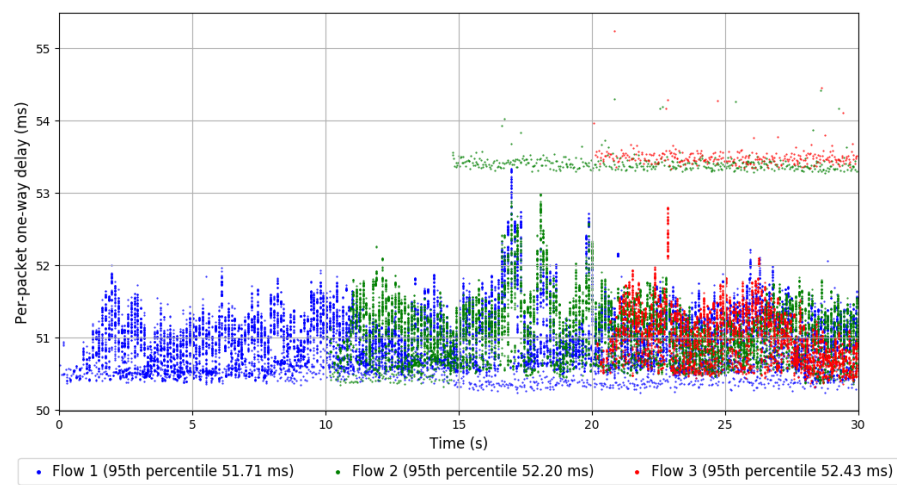
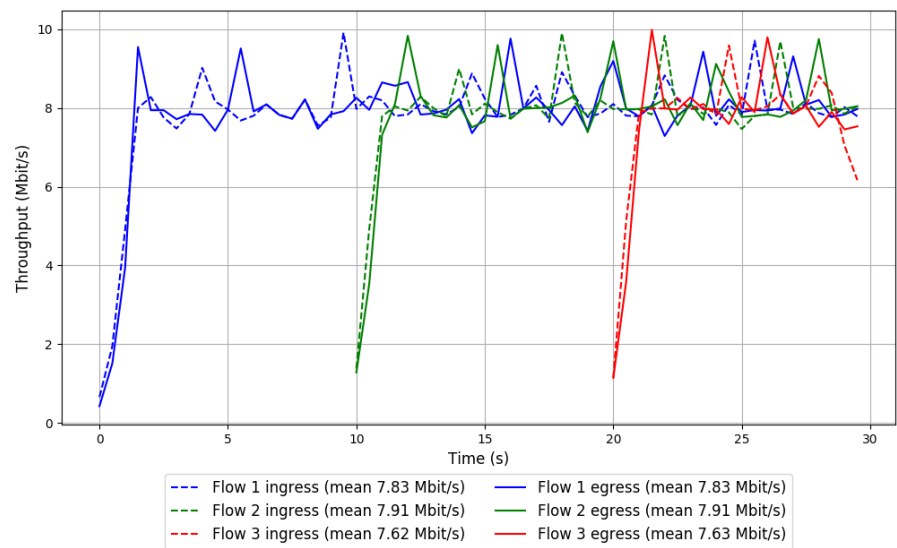
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 52.433 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

End at: 2018-01-03 03:18:33

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.22 Mbit/s

95th percentile per-packet one-way delay: 51.722 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.732 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 52.105 ms

Loss rate: 0.65%

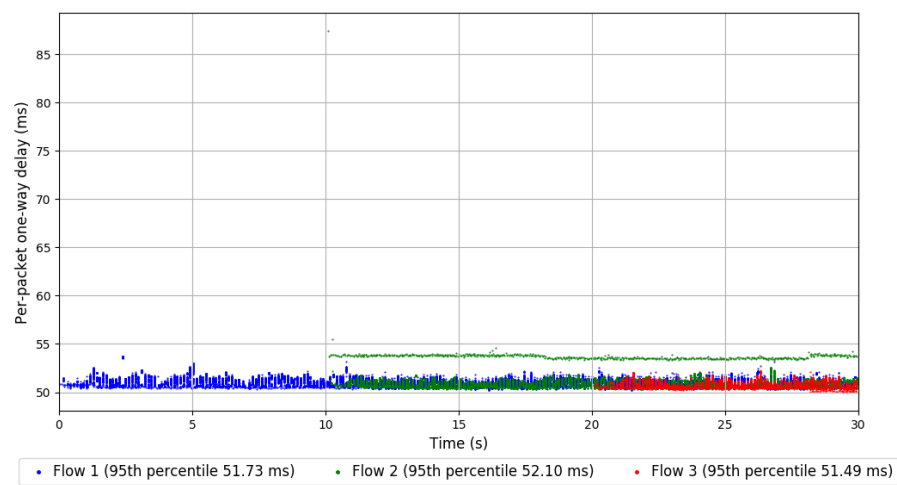
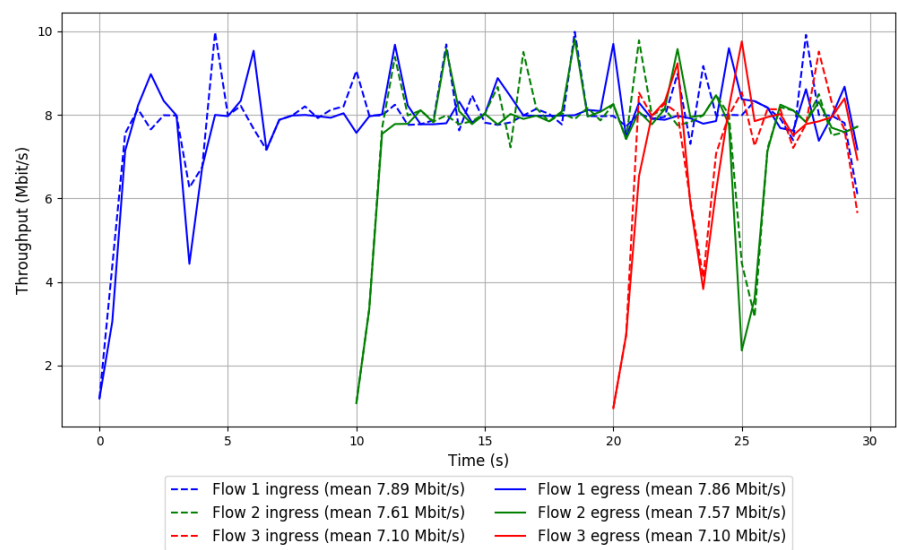
-- Flow 3:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 51.491 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-03 03:31:43

End at: 2018-01-03 03:32:13

Below is generated by plot.py at 2018-01-03 05:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 55.298 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 55.024 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 55.309 ms

Loss rate: 0.00%

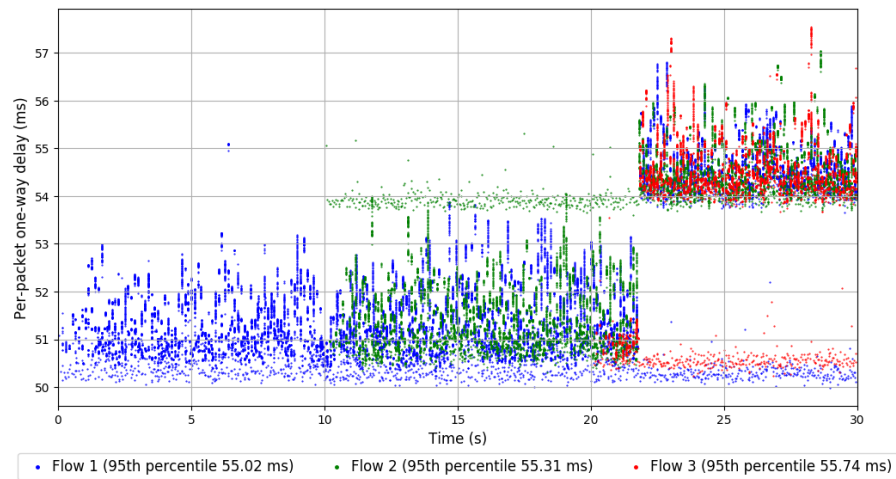
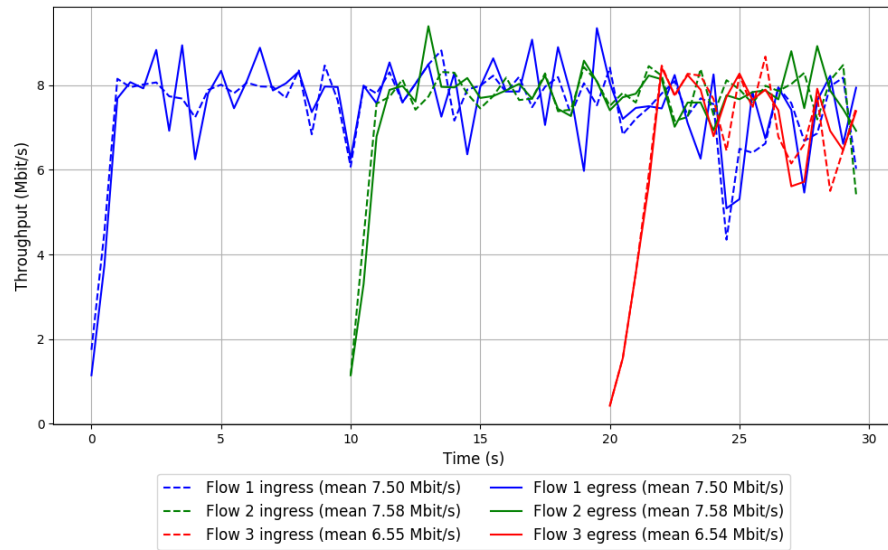
-- Flow 3:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 55.742 ms

Loss rate: 0.06%

Run 10: Report of Sprout — Data Link

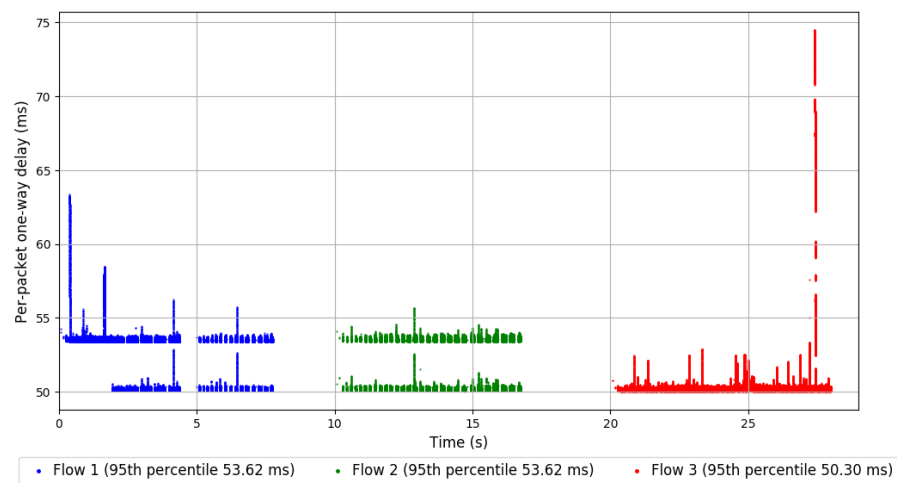
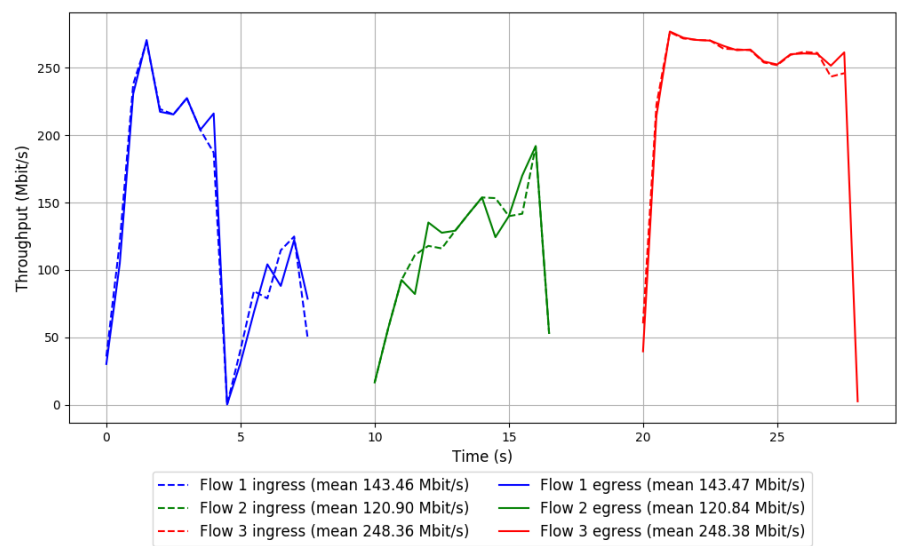


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-03 01:19:51
End at: 2018-01-03 01:20:21

# Below is generated by plot.py at 2018-01-03 05:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.89 Mbit/s
95th percentile per-packet one-way delay: 53.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.47 Mbit/s
95th percentile per-packet one-way delay: 53.622 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.84 Mbit/s
95th percentile per-packet one-way delay: 53.620 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 248.38 Mbit/s
95th percentile per-packet one-way delay: 50.302 ms
Loss rate: 0.00%
```


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

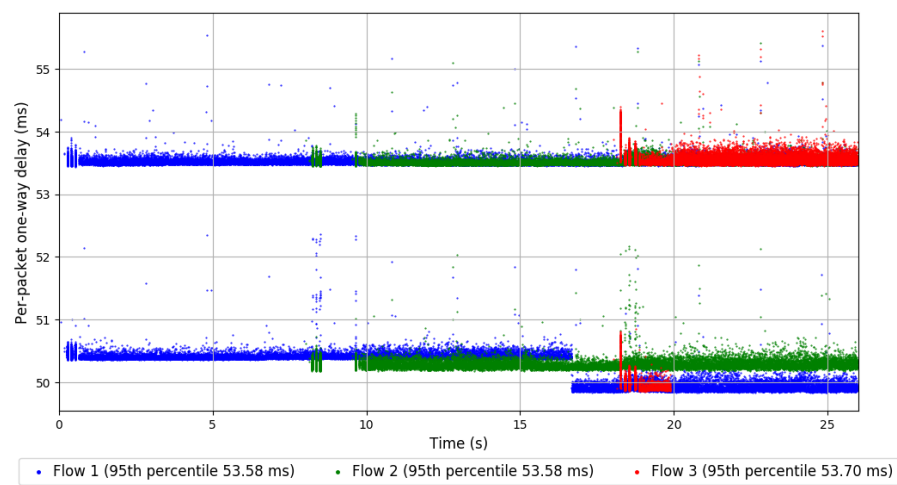
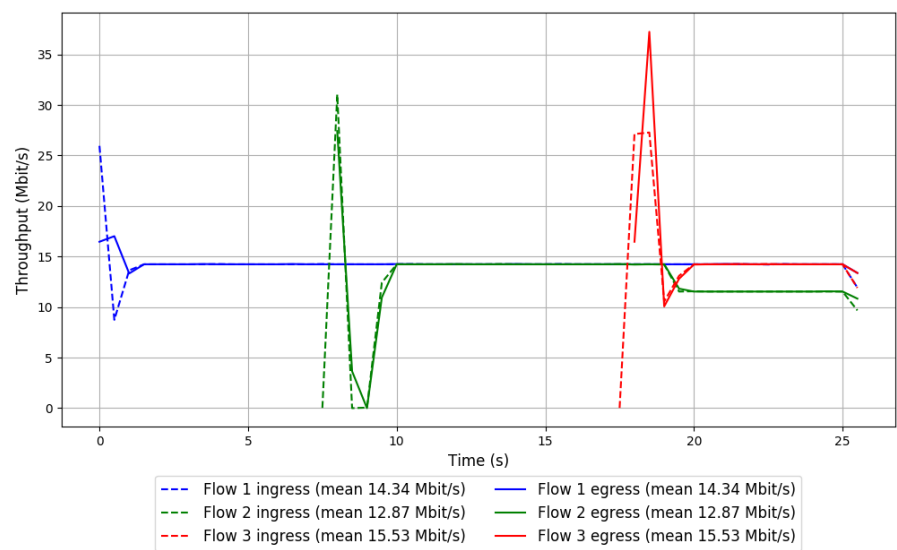


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-03 01:33:31
End at: 2018-01-03 01:34:01

# Below is generated by plot.py at 2018-01-03 05:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 14.34 Mbit/s
95th percentile per-packet one-way delay: 53.578 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 53.580 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 53.697 ms
Loss rate: 0.02%
```

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

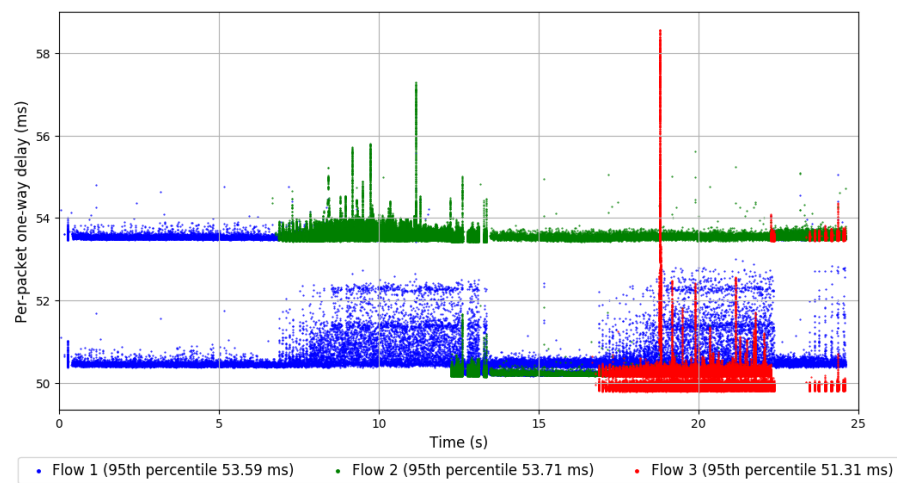
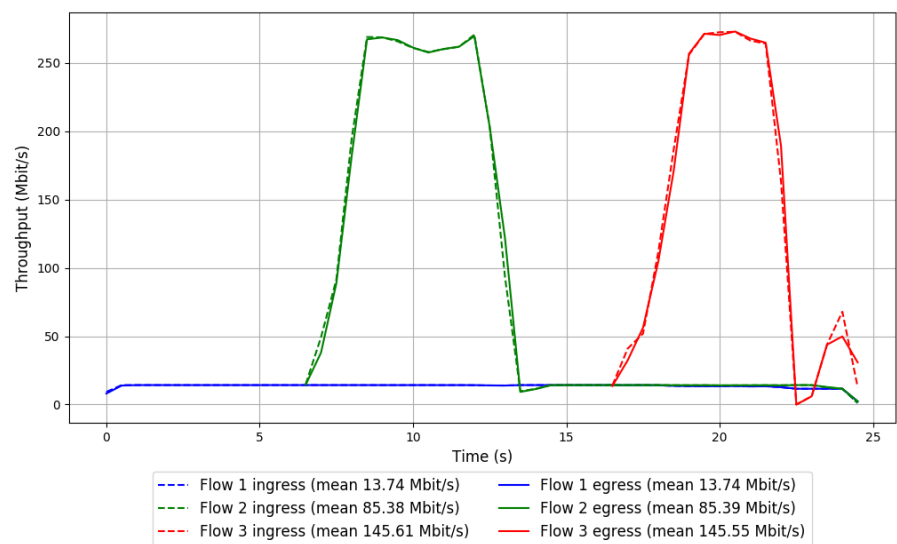


```
Run 3: Statistics of TaoVA-100x

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

# Below is generated by plot.py at 2018-01-03 05:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.03 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.74 Mbit/s
95th percentile per-packet one-way delay: 53.585 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 85.39 Mbit/s
95th percentile per-packet one-way delay: 53.706 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.55 Mbit/s
95th percentile per-packet one-way delay: 51.309 ms
Loss rate: 0.00%
```

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

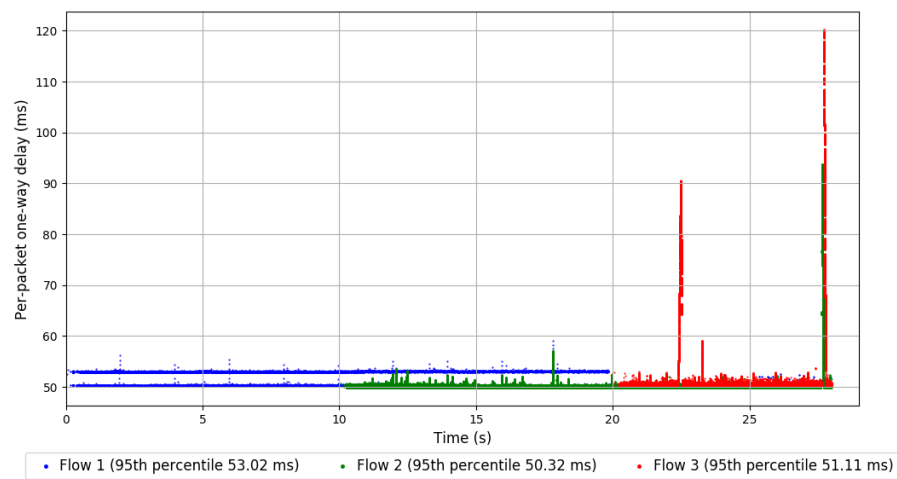
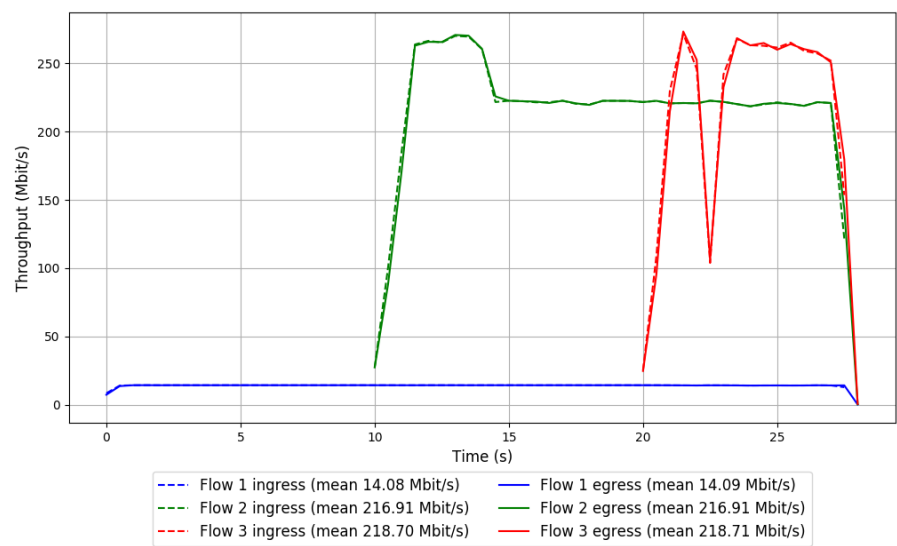


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-03 02:01:00
End at: 2018-01-03 02:01:30

# Below is generated by plot.py at 2018-01-03 05:18:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.44 Mbit/s
95th percentile per-packet one-way delay: 50.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 53.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 216.91 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 218.71 Mbit/s
95th percentile per-packet one-way delay: 51.112 ms
Loss rate: 0.00%
```

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

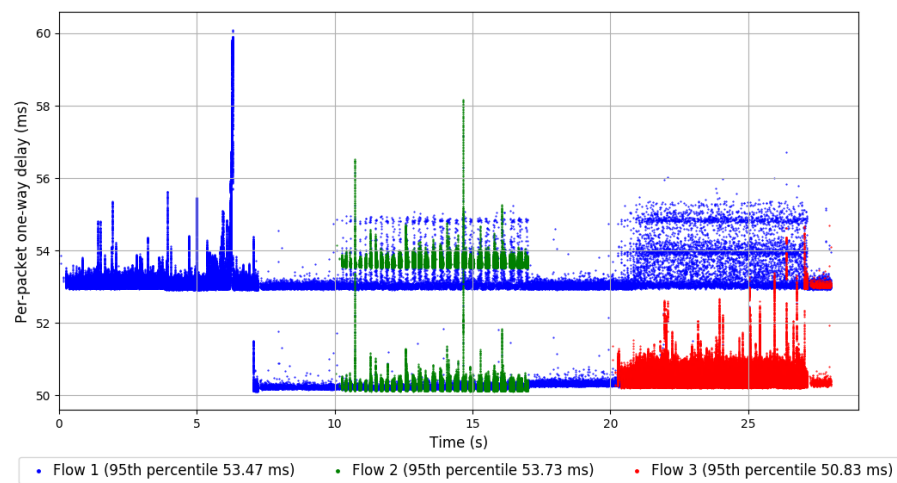
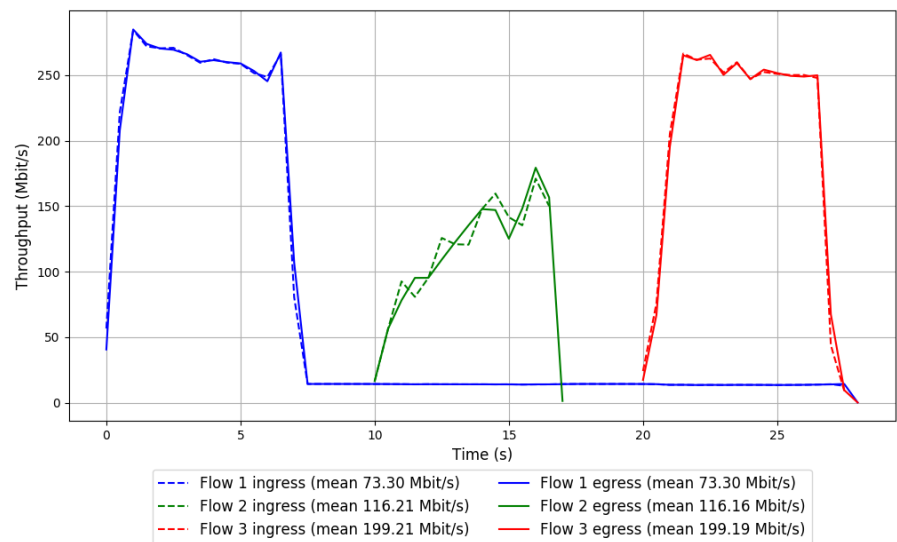


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-03 02:15:06
End at: 2018-01-03 02:15:36

# Below is generated by plot.py at 2018-01-03 05:18:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 158.69 Mbit/s
95th percentile per-packet one-way delay: 53.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.30 Mbit/s
95th percentile per-packet one-way delay: 53.472 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 116.16 Mbit/s
95th percentile per-packet one-way delay: 53.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 199.19 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.00%
```


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

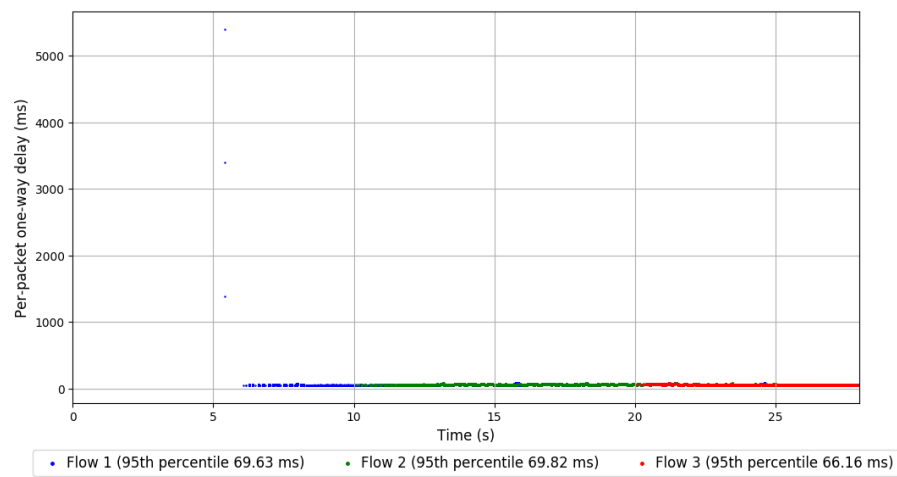
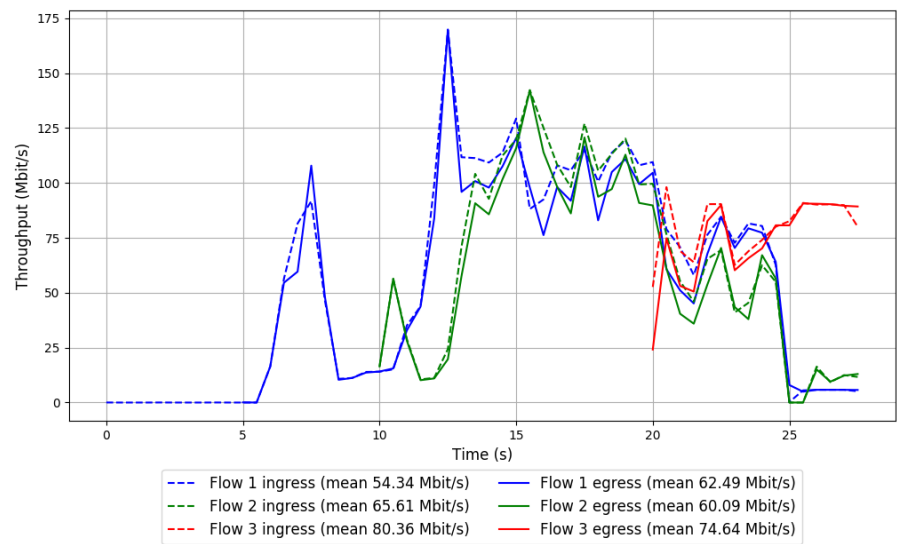


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-03 02:28:40

End at: 2018-01-03 02:29:10

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

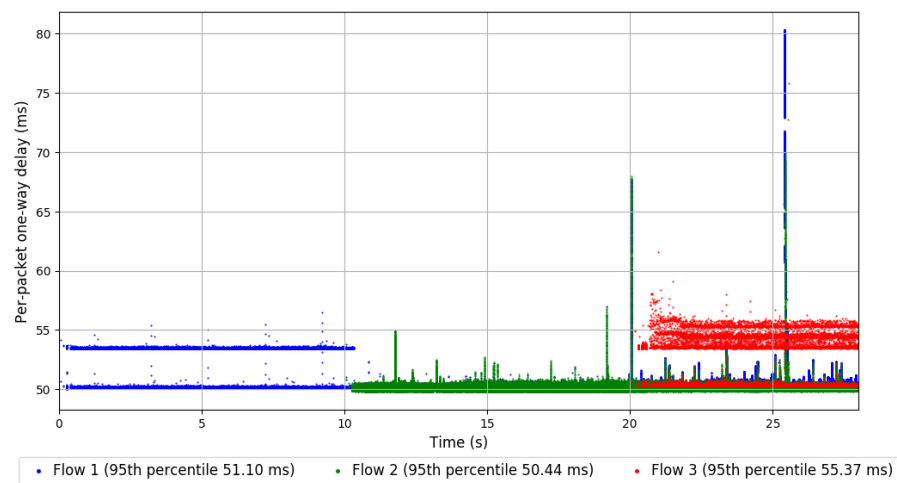
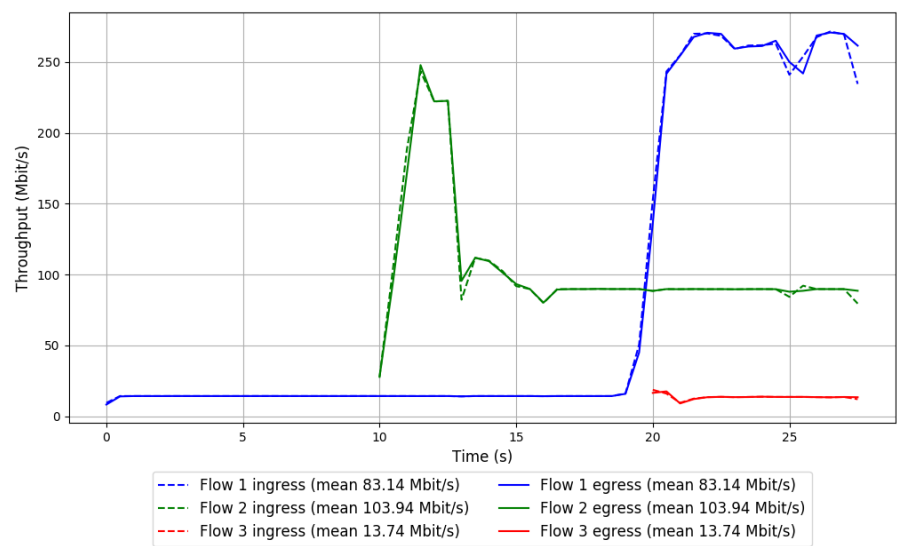


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-03 02:40:52
End at: 2018-01-03 02:41:22

# Below is generated by plot.py at 2018-01-03 05:18:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.73 Mbit/s
95th percentile per-packet one-way delay: 50.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.14 Mbit/s
95th percentile per-packet one-way delay: 51.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.94 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.74 Mbit/s
95th percentile per-packet one-way delay: 55.374 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-03 02:54:49

End at: 2018-01-03 02:55:19

Below is generated by plot.py at 2018-01-03 05:18:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.59 Mbit/s

95th percentile per-packet one-way delay: 53.714 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 53.696 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.00%

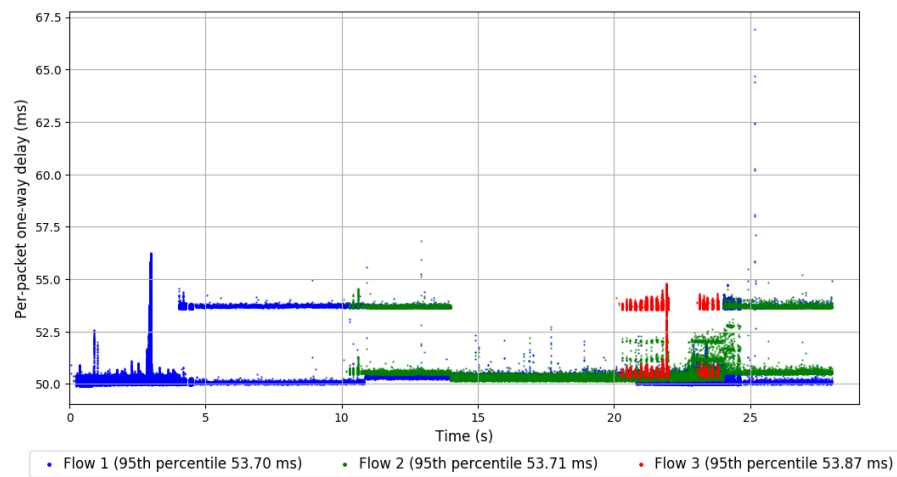
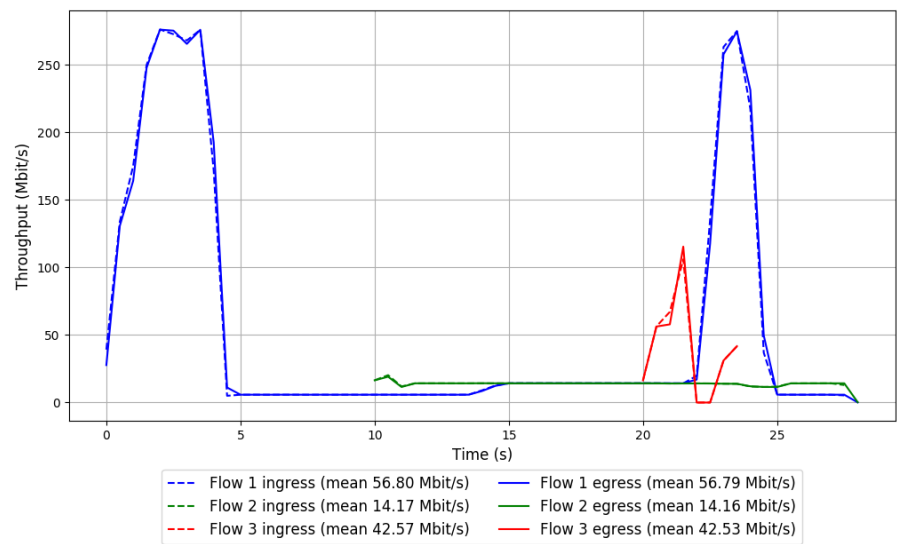
-- Flow 3:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.00%

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

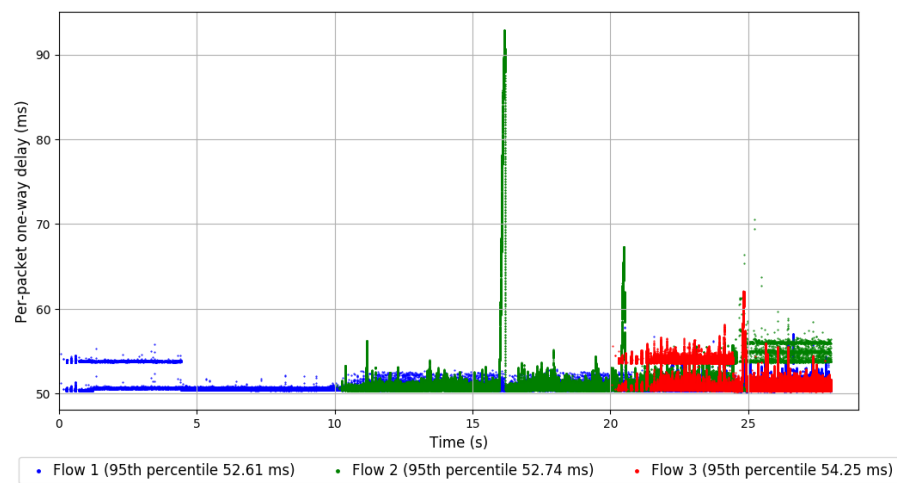
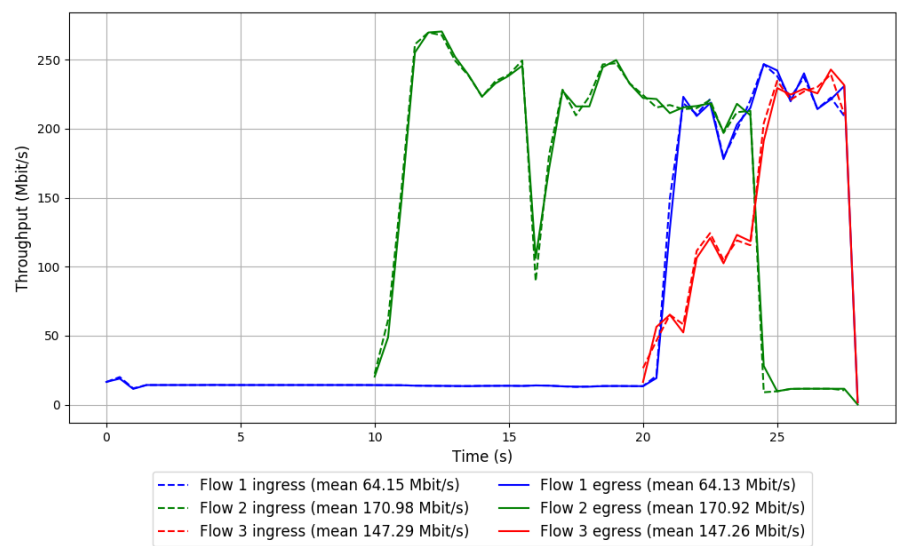


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-03 03:08:38
End at: 2018-01-03 03:09:08

# Below is generated by plot.py at 2018-01-03 05:21:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.65 Mbit/s
95th percentile per-packet one-way delay: 53.778 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.13 Mbit/s
95th percentile per-packet one-way delay: 52.608 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 170.92 Mbit/s
95th percentile per-packet one-way delay: 52.740 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 147.26 Mbit/s
95th percentile per-packet one-way delay: 54.253 ms
Loss rate: 0.03%
```


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

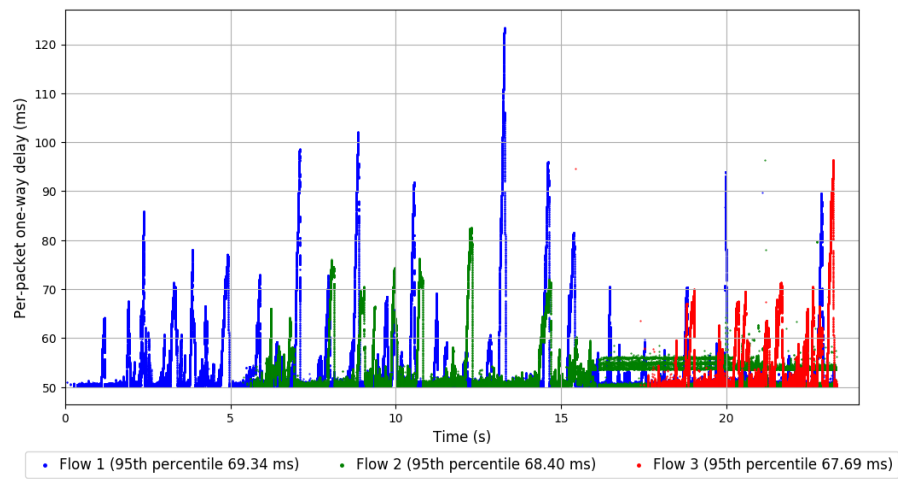
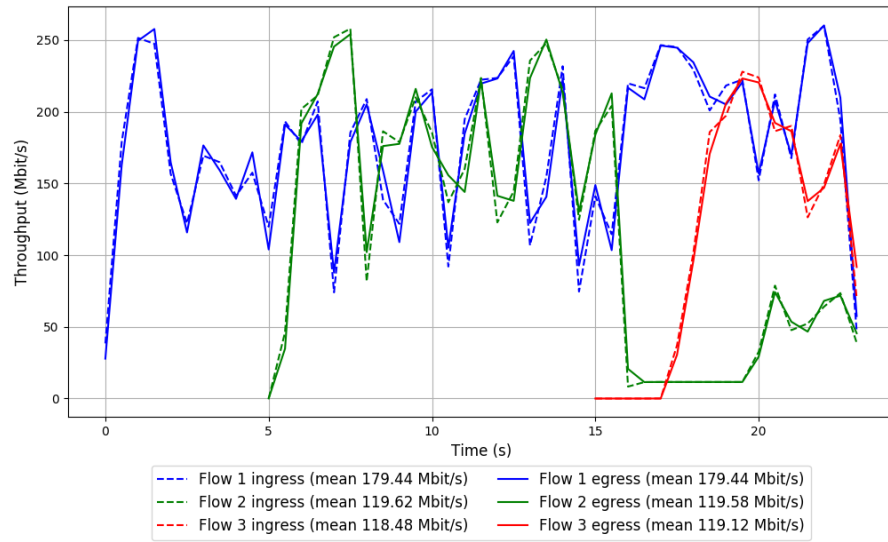


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-03 03:22:09

End at: 2018-01-03 03:22:39

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-03 01:23:37

End at: 2018-01-03 01:24:07

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.89 Mbit/s

95th percentile per-packet one-way delay: 53.968 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 130.36 Mbit/s

95th percentile per-packet one-way delay: 54.228 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.84 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.00%

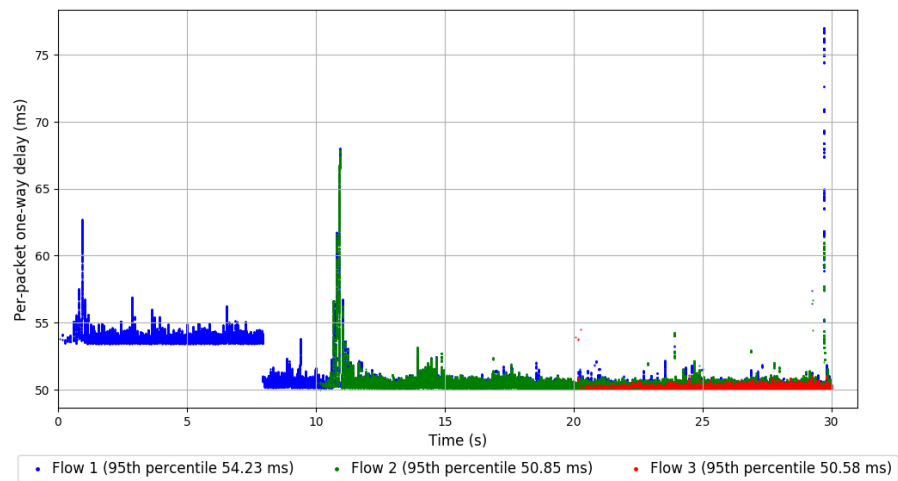
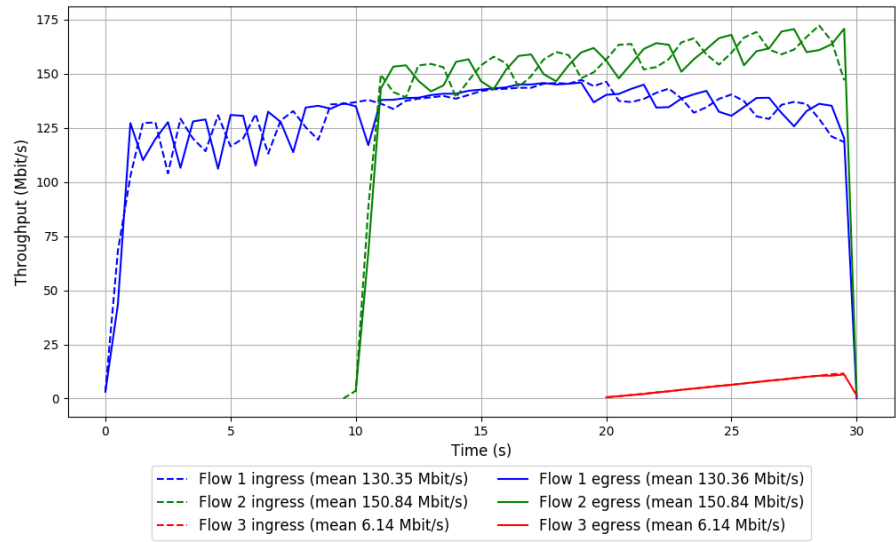
-- Flow 3:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 50.584 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-03 01:37:08

End at: 2018-01-03 01:37:38

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.18 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 155.36 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.00%

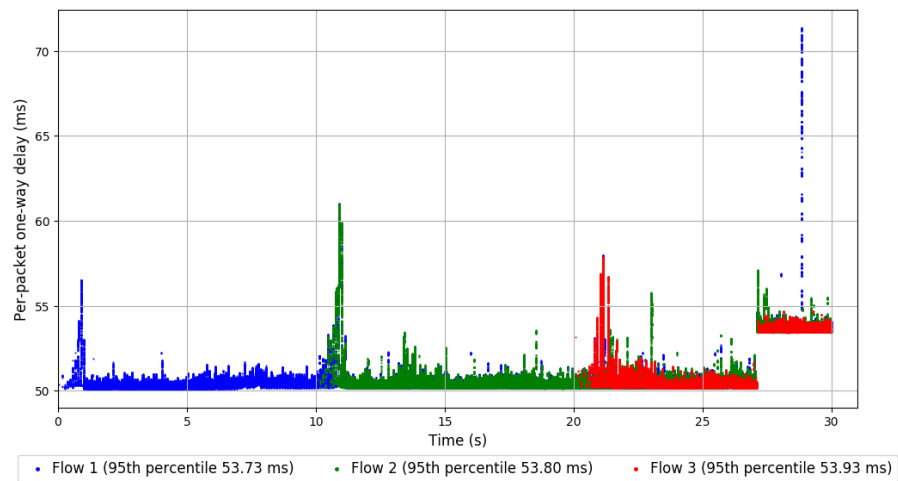
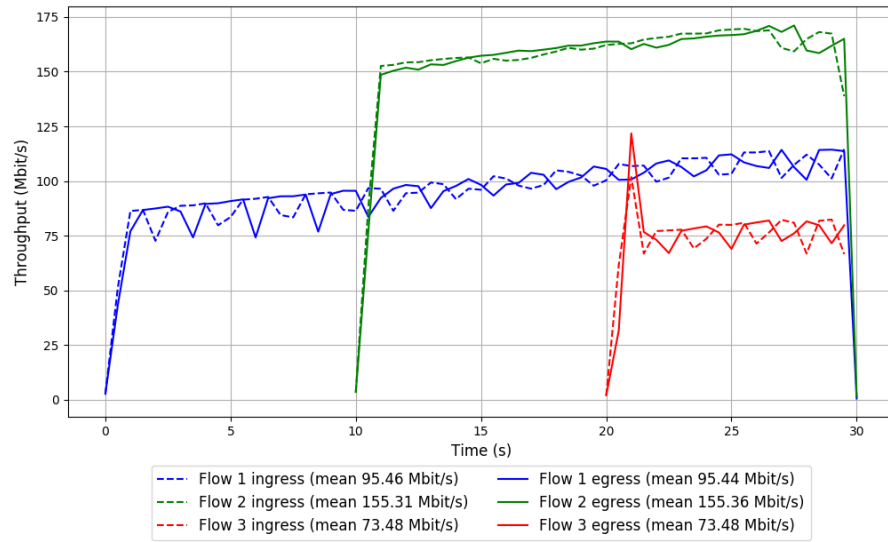
-- Flow 3:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 53.934 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

End at: 2018-01-03 01:51:30

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.08 Mbit/s

95th percentile per-packet one-way delay: 51.792 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 53.370 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 101.62 Mbit/s

95th percentile per-packet one-way delay: 51.275 ms

Loss rate: 0.00%

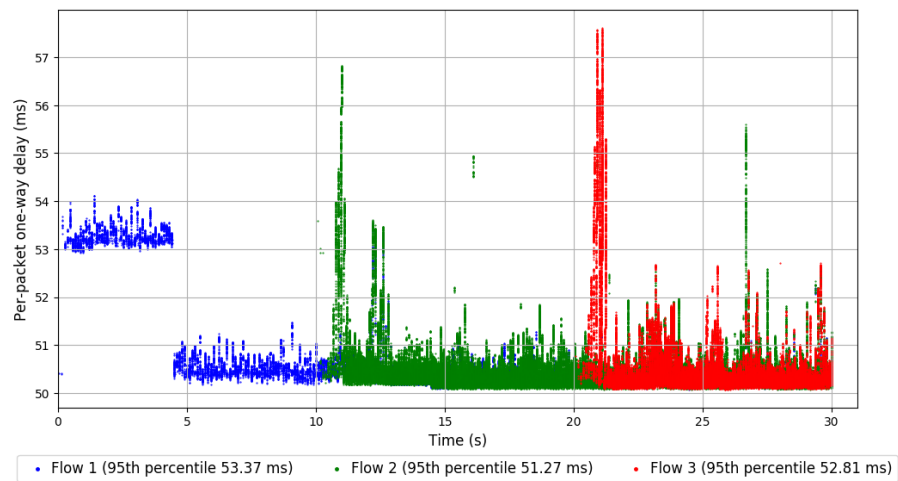
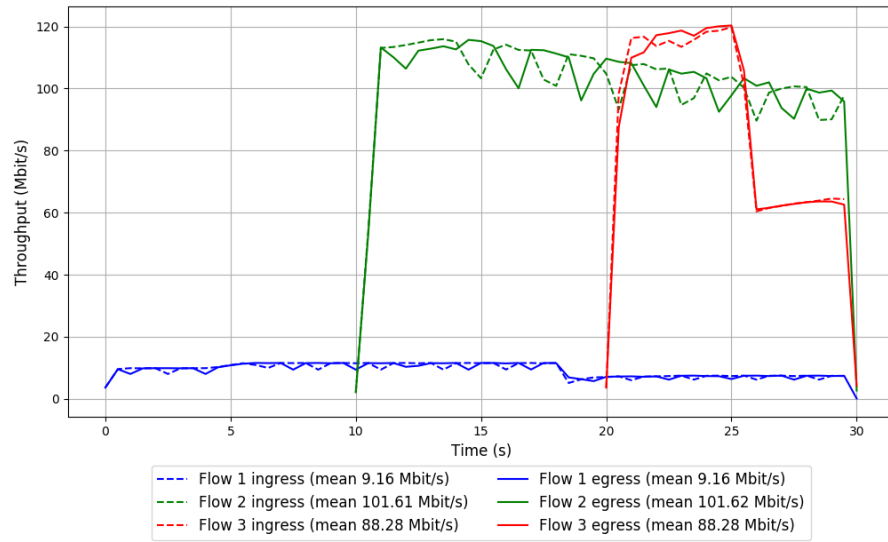
-- Flow 3:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 52.812 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-03 02:04:57

End at: 2018-01-03 02:05:27

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.17 Mbit/s

95th percentile per-packet one-way delay: 53.756 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 108.73 Mbit/s

95th percentile per-packet one-way delay: 53.552 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.48 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 0.00%

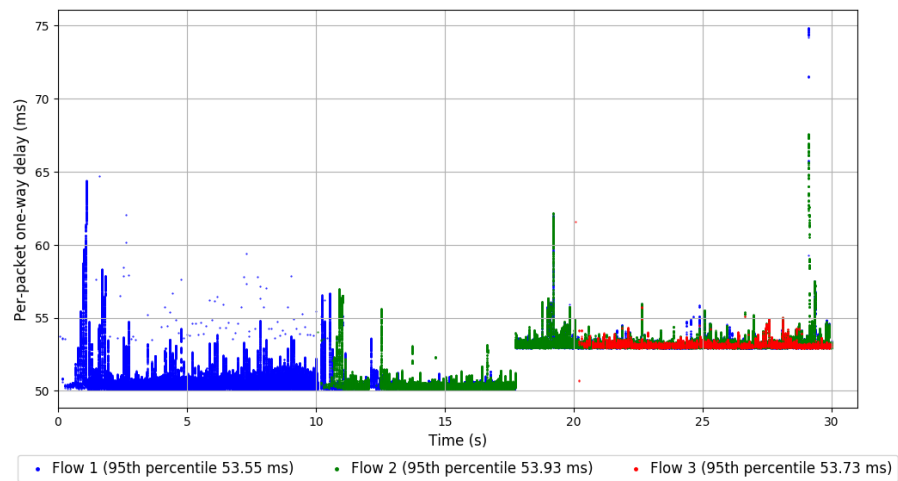
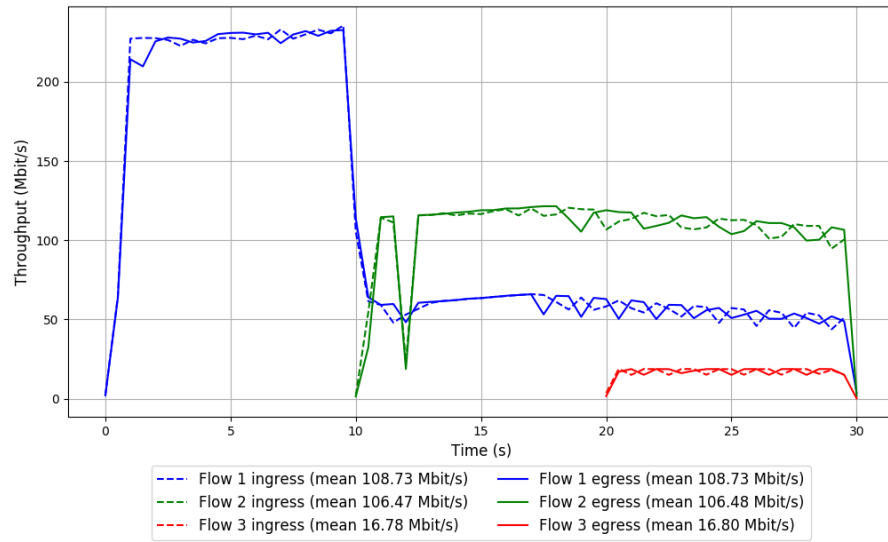
-- Flow 3:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-03 02:19:00

End at: 2018-01-03 02:19:30

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.17 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.99 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 51.583 ms

Loss rate: 0.00%

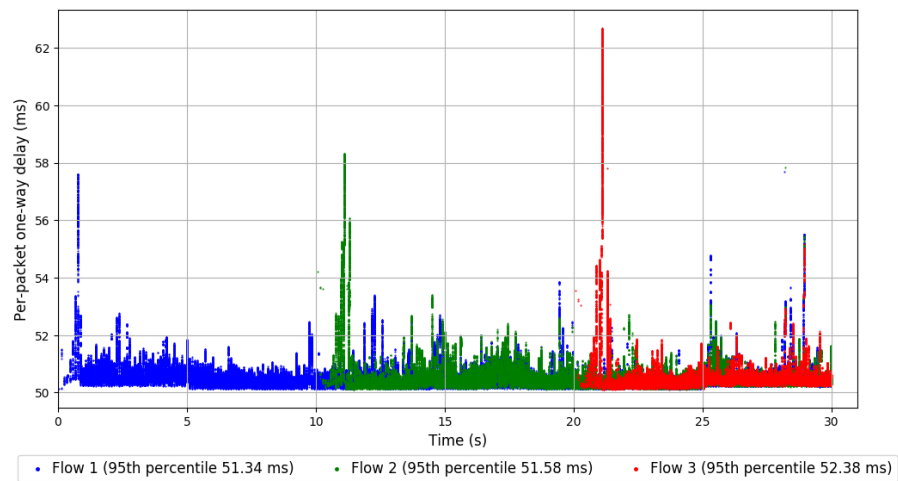
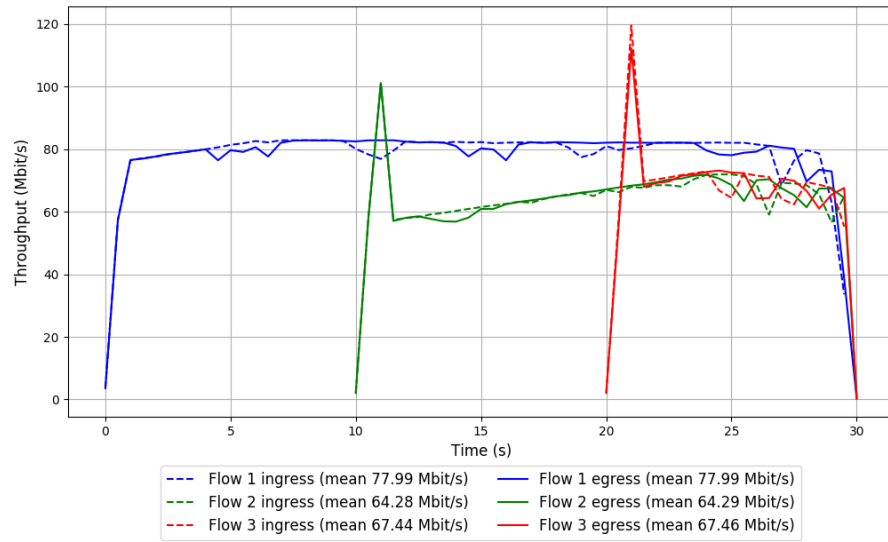
-- Flow 3:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 52.379 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-03 02:31:18

End at: 2018-01-03 02:31:48

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 56.464 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 55.847 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 15.64 Mbit/s

95th percentile per-packet one-way delay: 60.054 ms

Loss rate: 1.60%

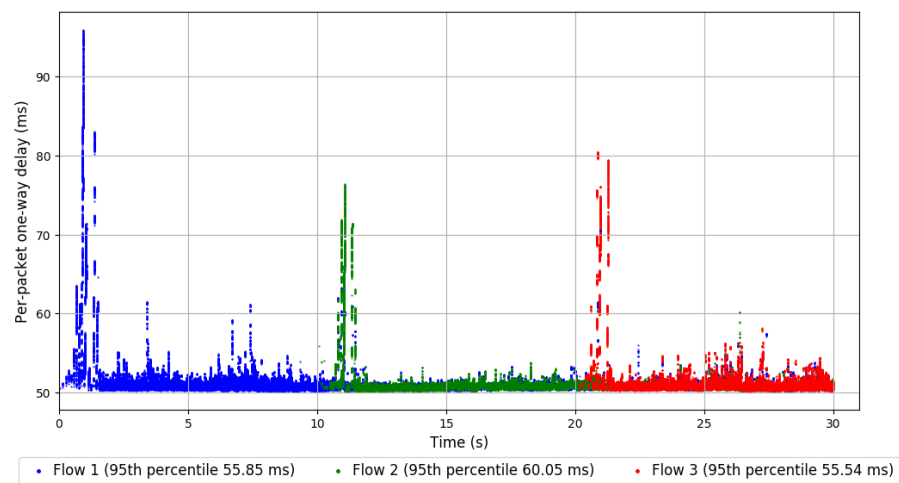
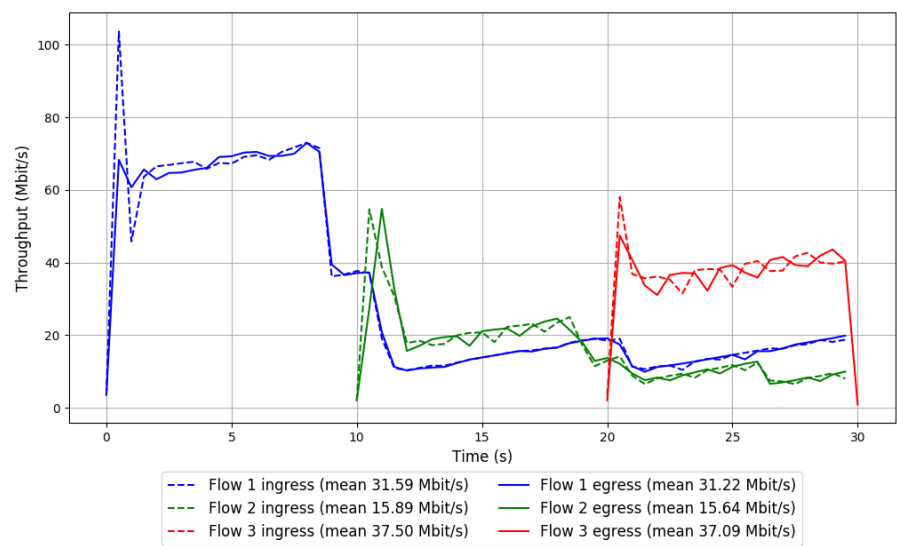
-- Flow 3:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 55.542 ms

Loss rate: 1.10%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-03 02:44:43

End at: 2018-01-03 02:45:13

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.61 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 54.037 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 54.187 ms

Loss rate: 0.02%

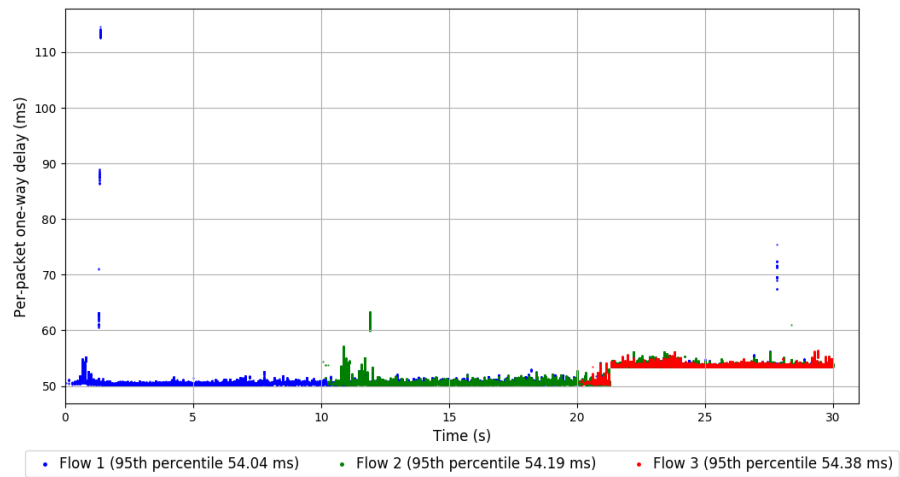
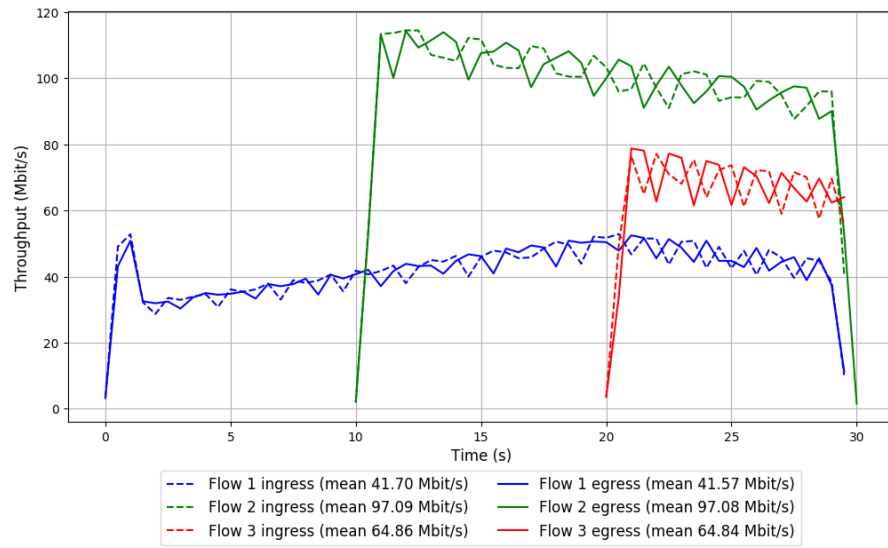
-- Flow 3:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 54.385 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-03 02:58:25

End at: 2018-01-03 02:58:55

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.31 Mbit/s

95th percentile per-packet one-way delay: 54.177 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.24 Mbit/s

95th percentile per-packet one-way delay: 54.276 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.66 Mbit/s

95th percentile per-packet one-way delay: 54.401 ms

Loss rate: 0.00%

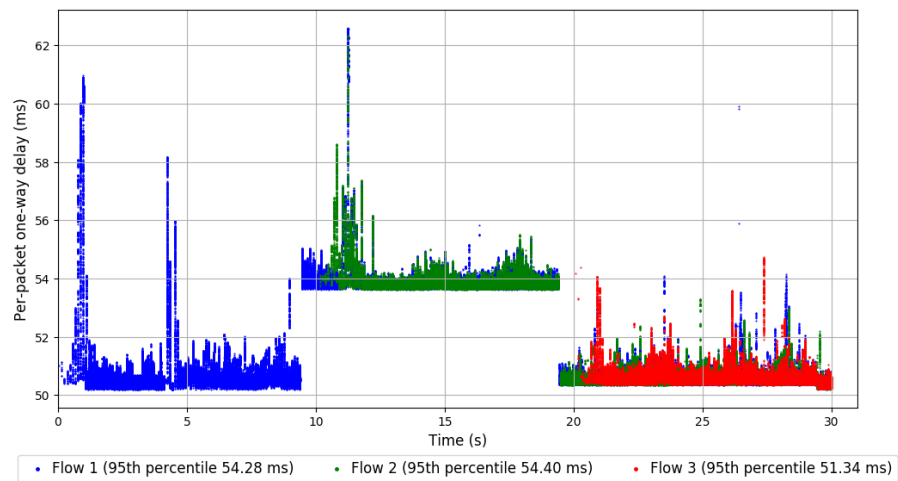
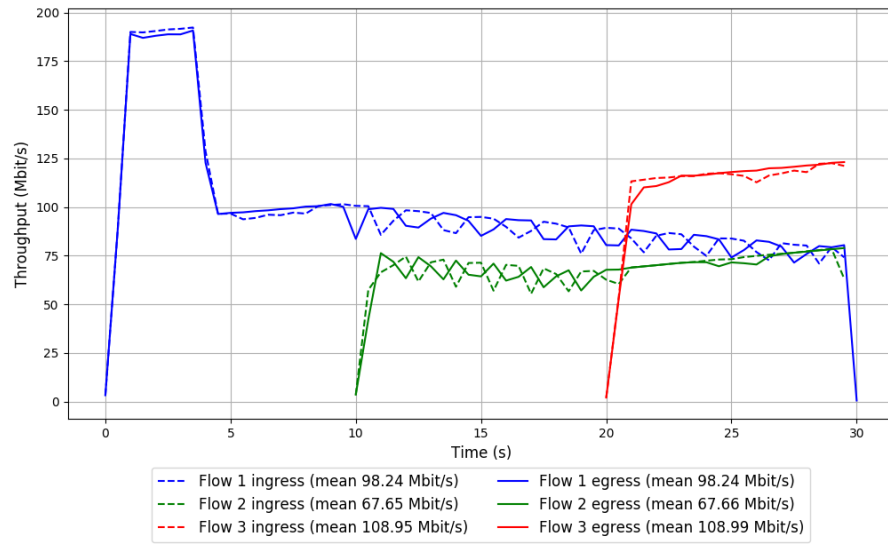
-- Flow 3:

Average throughput: 108.99 Mbit/s

95th percentile per-packet one-way delay: 51.336 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-03 03:12:28

End at: 2018-01-03 03:12:58

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.10 Mbit/s

95th percentile per-packet one-way delay: 58.681 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 54.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.03 Mbit/s

95th percentile per-packet one-way delay: 62.764 ms

Loss rate: 0.00%

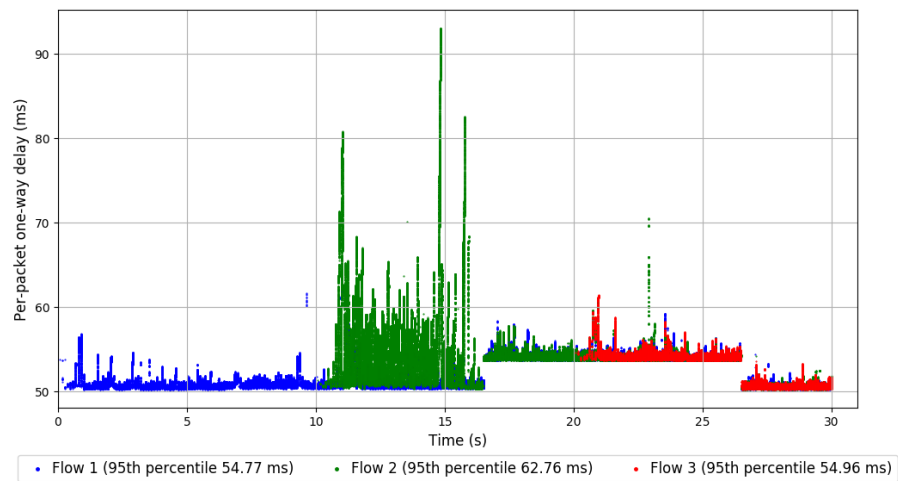
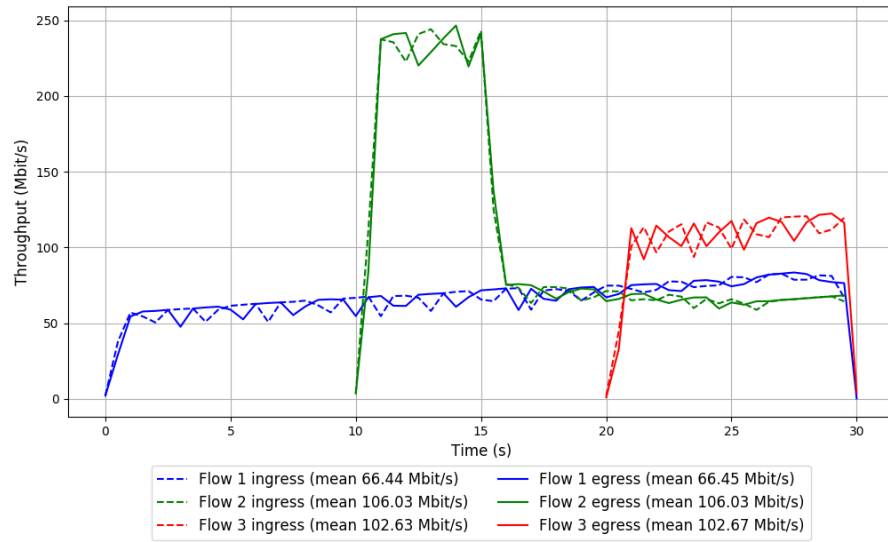
-- Flow 3:

Average throughput: 102.67 Mbit/s

95th percentile per-packet one-way delay: 54.958 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-03 03:26:09

End at: 2018-01-03 03:26:39

Below is generated by plot.py at 2018-01-03 05:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 55.203 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 51.730 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 70.89 Mbit/s

95th percentile per-packet one-way delay: 57.809 ms

Loss rate: 0.03%

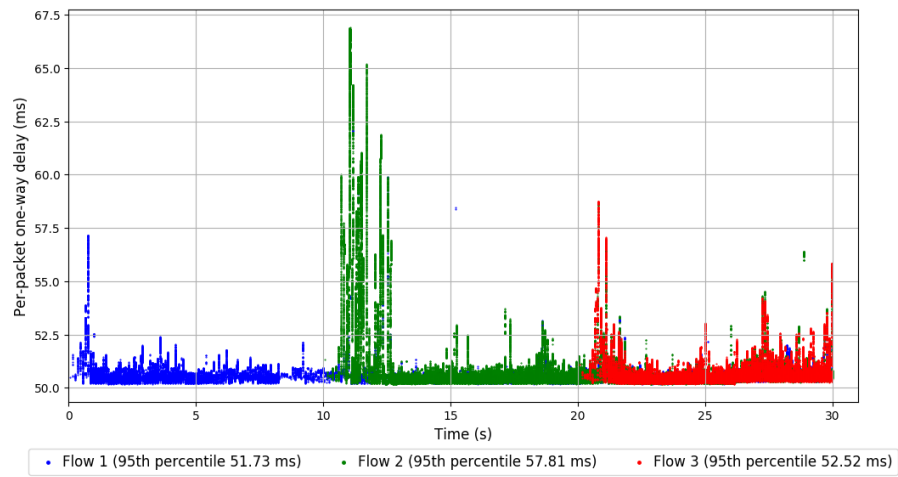
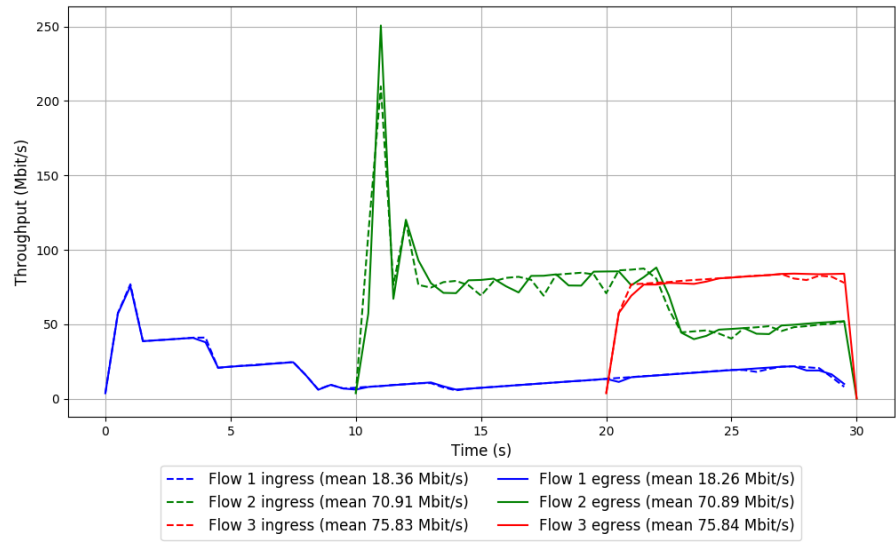
-- Flow 3:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 52.525 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

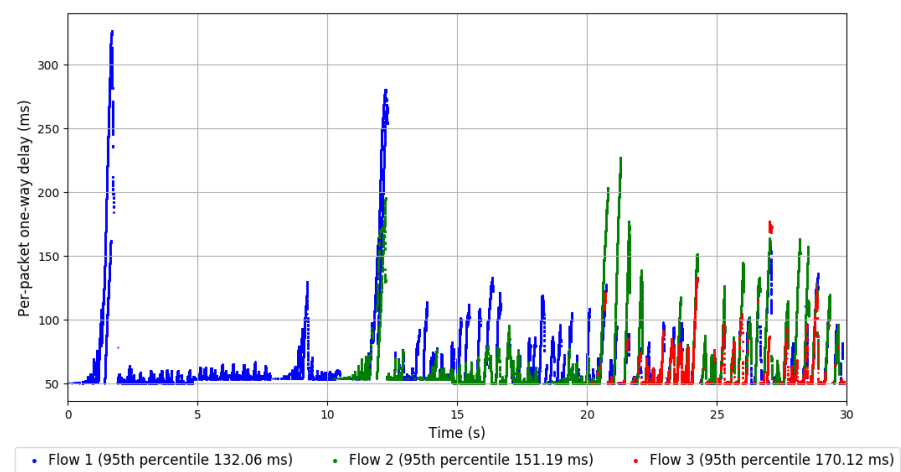
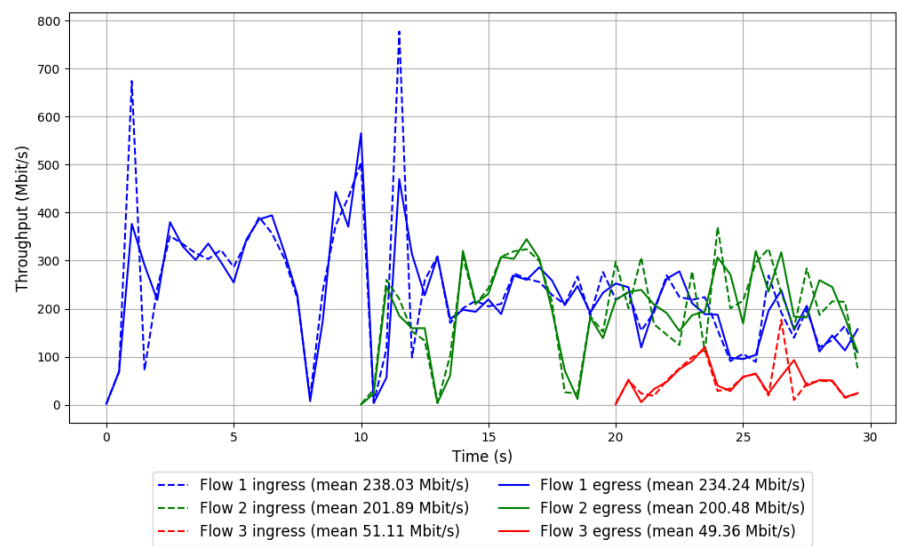


```
Run 1: Statistics of Verus

Start at: 2018-01-03 01:22:30
End at: 2018-01-03 01:23:00

# Below is generated by plot.py at 2018-01-03 05:26:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.73 Mbit/s
95th percentile per-packet one-way delay: 147.800 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 234.24 Mbit/s
95th percentile per-packet one-way delay: 132.065 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 200.48 Mbit/s
95th percentile per-packet one-way delay: 151.190 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 49.36 Mbit/s
95th percentile per-packet one-way delay: 170.120 ms
Loss rate: 3.42%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

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

End at: 2018-01-03 01:36:31

Below is generated by plot.py at 2018-01-03 05:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.60 Mbit/s

95th percentile per-packet one-way delay: 153.788 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 209.35 Mbit/s

95th percentile per-packet one-way delay: 143.633 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 131.03 Mbit/s

95th percentile per-packet one-way delay: 137.908 ms

Loss rate: 0.16%

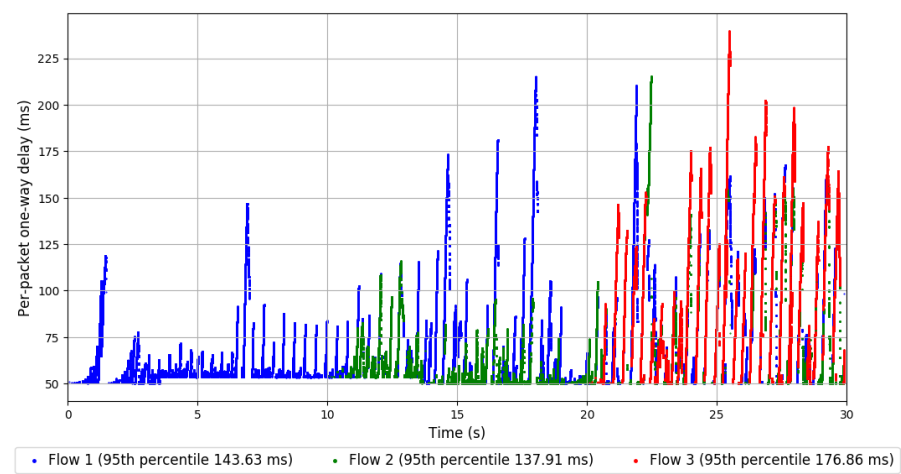
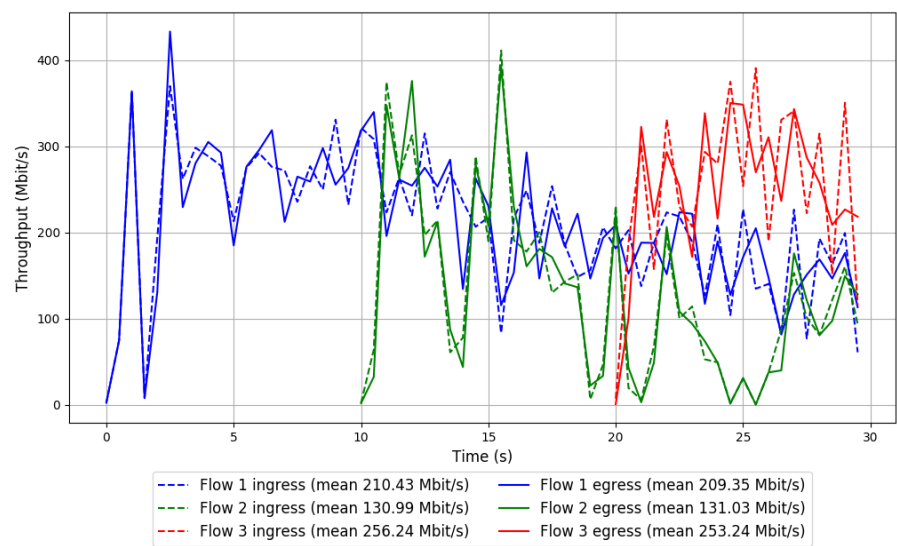
-- Flow 3:

Average throughput: 253.24 Mbit/s

95th percentile per-packet one-way delay: 176.862 ms

Loss rate: 1.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-03 01:49:51

End at: 2018-01-03 01:50:21

Below is generated by plot.py at 2018-01-03 05:27:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.40 Mbit/s

95th percentile per-packet one-way delay: 147.947 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 204.84 Mbit/s

95th percentile per-packet one-way delay: 121.940 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 241.48 Mbit/s

95th percentile per-packet one-way delay: 185.142 ms

Loss rate: 0.71%

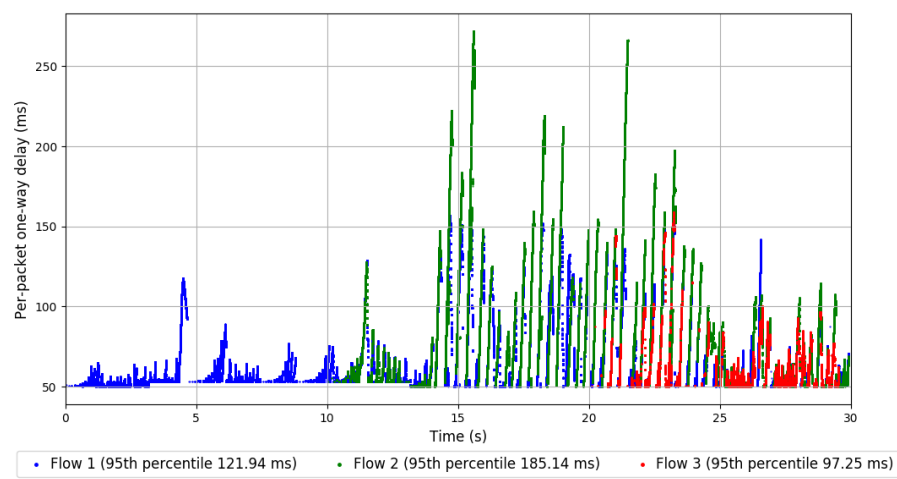
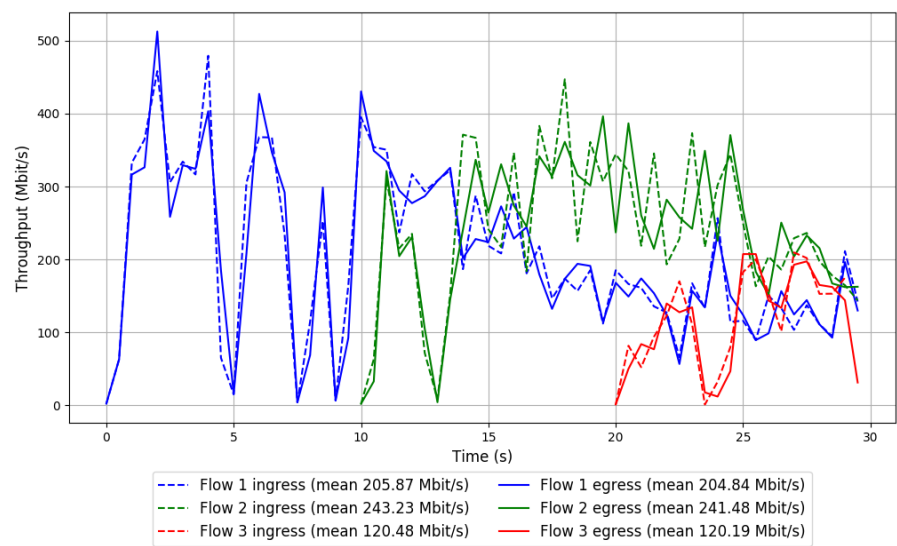
-- Flow 3:

Average throughput: 120.19 Mbit/s

95th percentile per-packet one-way delay: 97.252 ms

Loss rate: 0.12%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-03 02:03:51

End at: 2018-01-03 02:04:21

Below is generated by plot.py at 2018-01-03 05:27:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.84 Mbit/s

95th percentile per-packet one-way delay: 162.825 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 160.70 Mbit/s

95th percentile per-packet one-way delay: 101.607 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 131.170 ms

Loss rate: 0.61%

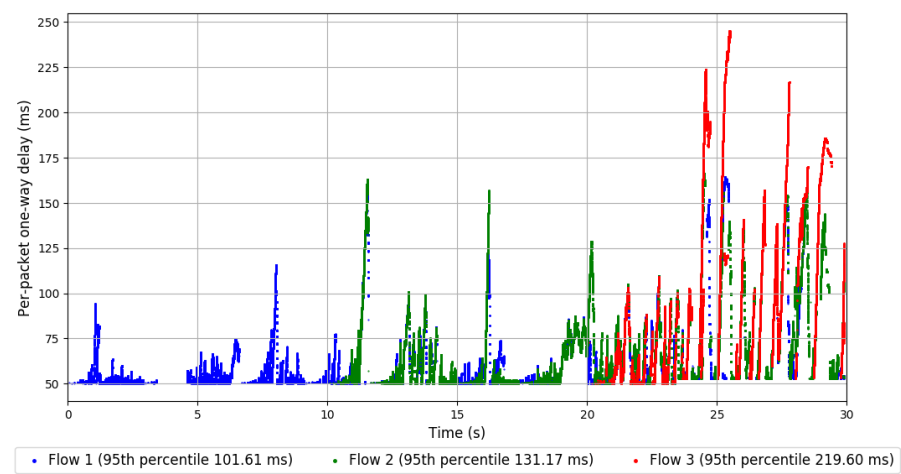
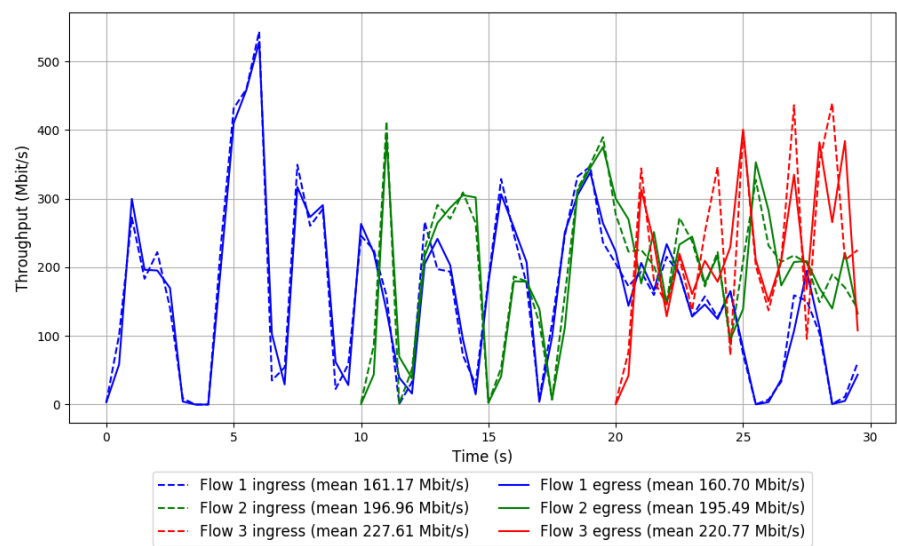
-- Flow 3:

Average throughput: 220.77 Mbit/s

95th percentile per-packet one-way delay: 219.597 ms

Loss rate: 3.24%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-03 02:17:52

End at: 2018-01-03 02:18:22

Below is generated by plot.py at 2018-01-03 05:27:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.72 Mbit/s

95th percentile per-packet one-way delay: 196.466 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 226.29 Mbit/s

95th percentile per-packet one-way delay: 170.899 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 134.93 Mbit/s

95th percentile per-packet one-way delay: 219.232 ms

Loss rate: 3.43%

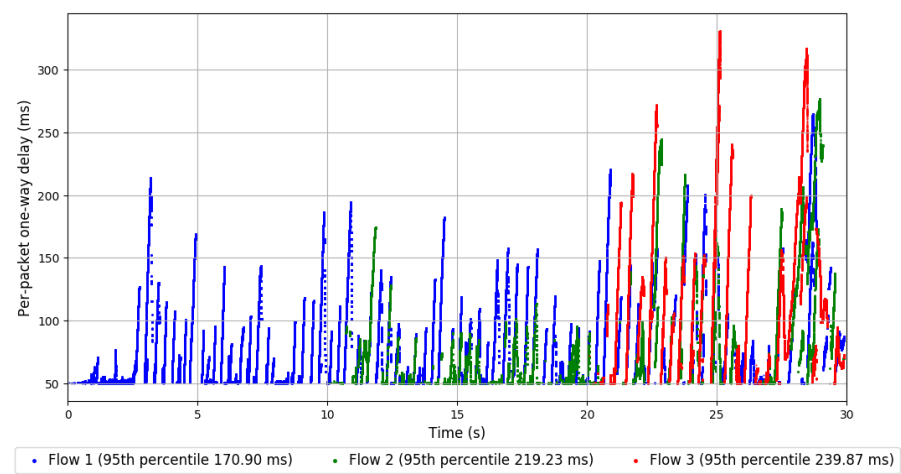
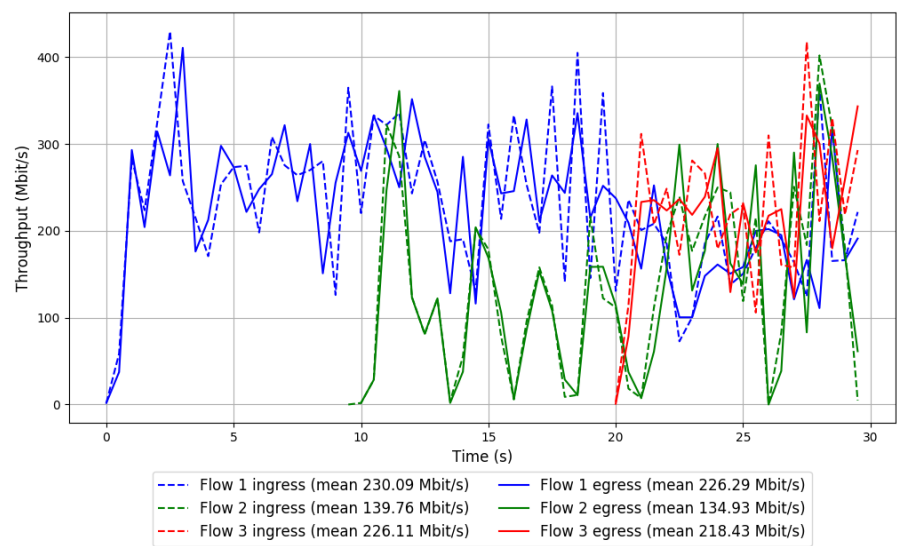
-- Flow 3:

Average throughput: 218.43 Mbit/s

95th percentile per-packet one-way delay: 239.867 ms

Loss rate: 3.57%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-03 02:30:28

End at: 2018-01-03 02:30:58

Below is generated by plot.py at 2018-01-03 05:27:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.43 Mbit/s

95th percentile per-packet one-way delay: 115.365 ms

Loss rate: 41.85%

-- Flow 1:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 86.469 ms

Loss rate: 27.26%

-- Flow 2:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 80.546 ms

Loss rate: 36.25%

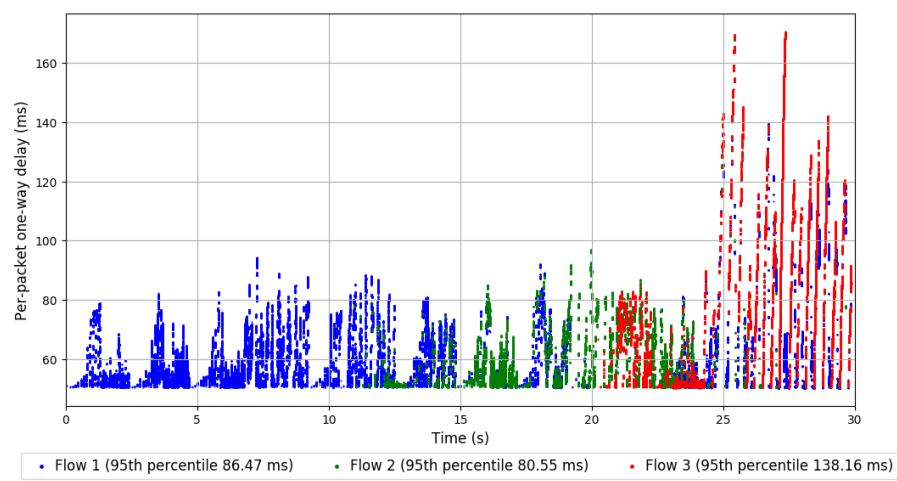
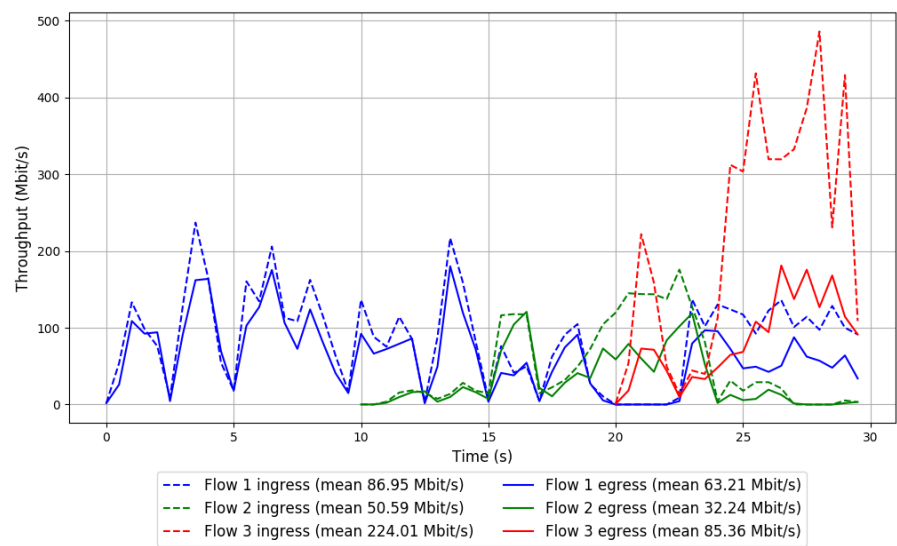
-- Flow 3:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 138.163 ms

Loss rate: 61.78%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-03 02:43:38

End at: 2018-01-03 02:44:08

Below is generated by plot.py at 2018-01-03 05:28:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.12 Mbit/s

95th percentile per-packet one-way delay: 143.889 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 228.26 Mbit/s

95th percentile per-packet one-way delay: 157.278 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 136.98 Mbit/s

95th percentile per-packet one-way delay: 111.580 ms

Loss rate: 0.03%

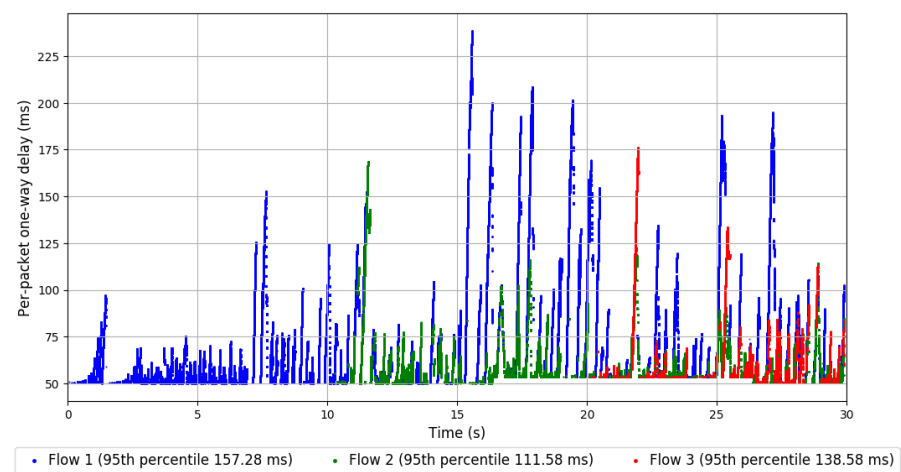
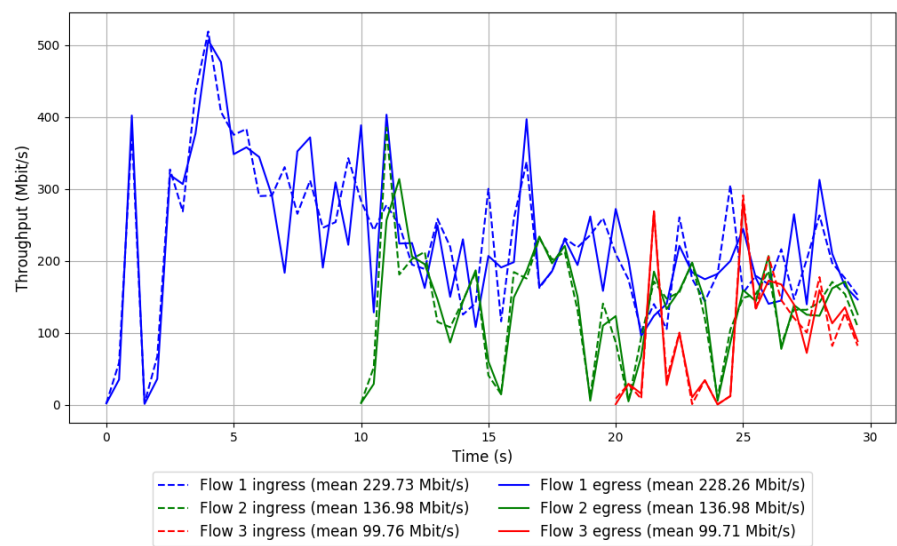
-- Flow 3:

Average throughput: 99.71 Mbit/s

95th percentile per-packet one-way delay: 138.583 ms

Loss rate: 0.04%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-03 02:57:23

End at: 2018-01-03 02:57:53

Below is generated by plot.py at 2018-01-03 05:28:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.08 Mbit/s

95th percentile per-packet one-way delay: 155.352 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 184.64 Mbit/s

95th percentile per-packet one-way delay: 176.466 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 136.81 Mbit/s

95th percentile per-packet one-way delay: 100.939 ms

Loss rate: 0.03%

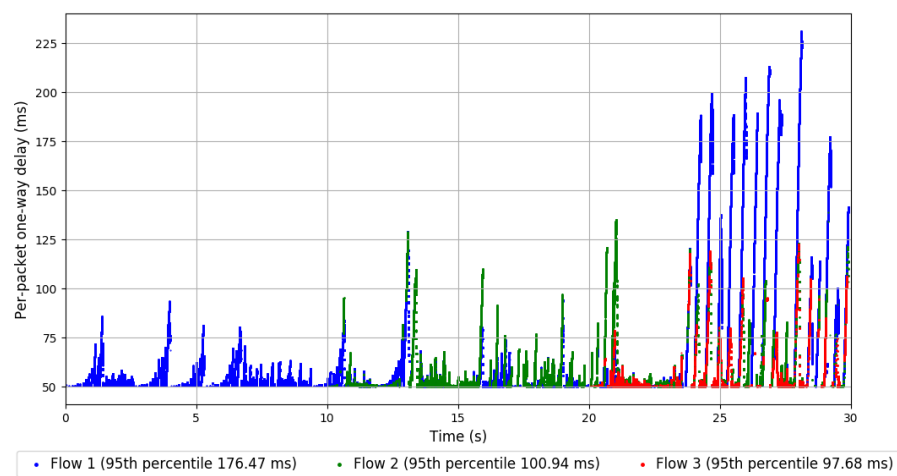
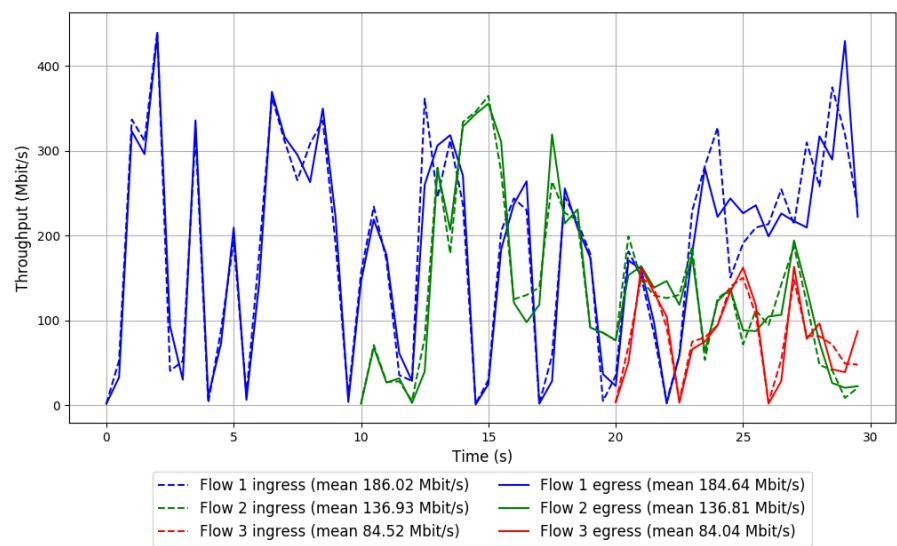
-- Flow 3:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 97.684 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-03 03:11:27

End at: 2018-01-03 03:11:57

Below is generated by plot.py at 2018-01-03 05:29:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.41 Mbit/s

95th percentile per-packet one-way delay: 144.614 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 168.03 Mbit/s

95th percentile per-packet one-way delay: 170.689 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 150.55 Mbit/s

95th percentile per-packet one-way delay: 117.092 ms

Loss rate: 0.10%

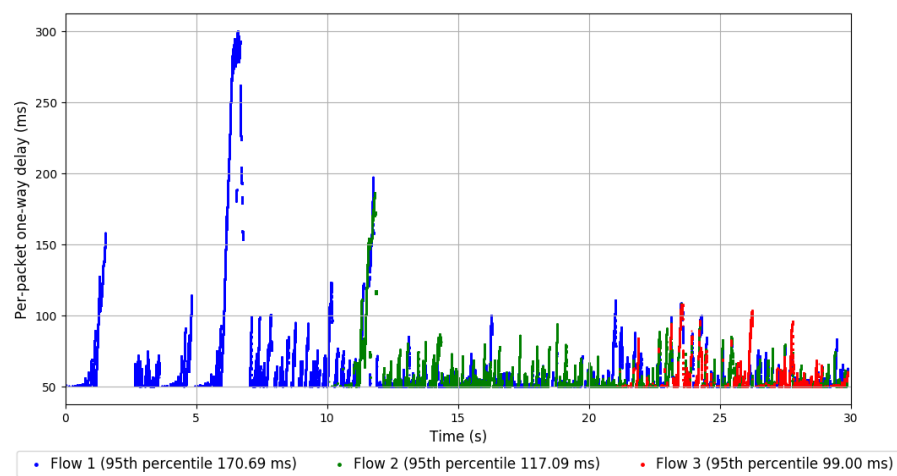
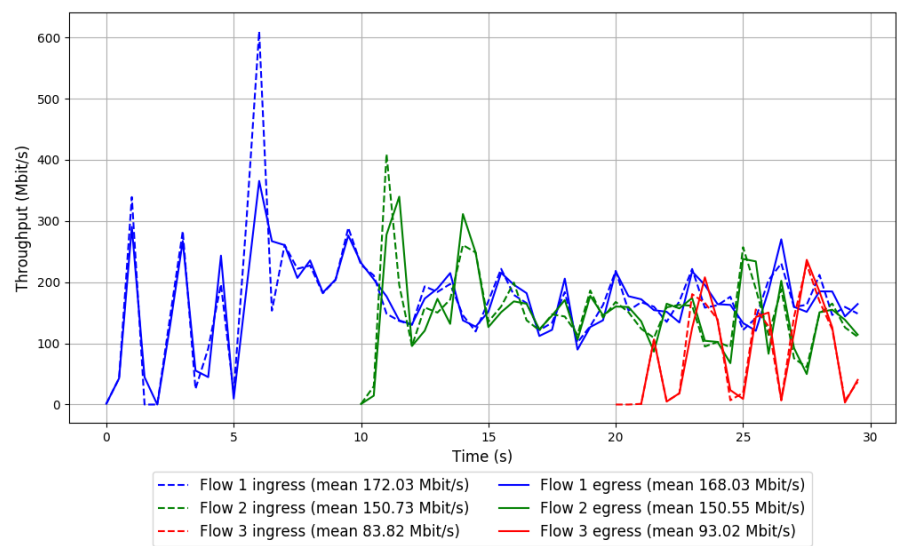
-- Flow 3:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 99.002 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-03 03:25:02

End at: 2018-01-03 03:25:32

Below is generated by plot.py at 2018-01-03 05:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 367.31 Mbit/s

95th percentile per-packet one-way delay: 122.761 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 235.19 Mbit/s

95th percentile per-packet one-way delay: 104.862 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 125.29 Mbit/s

95th percentile per-packet one-way delay: 175.395 ms

Loss rate: 0.48%

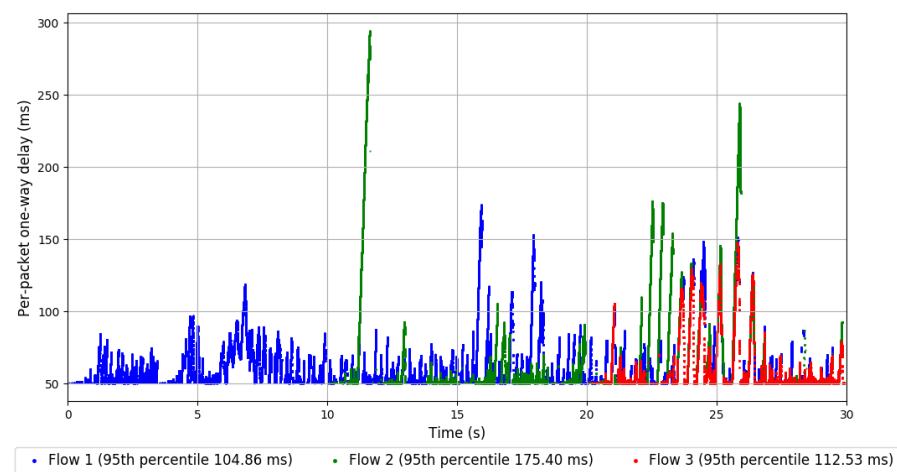
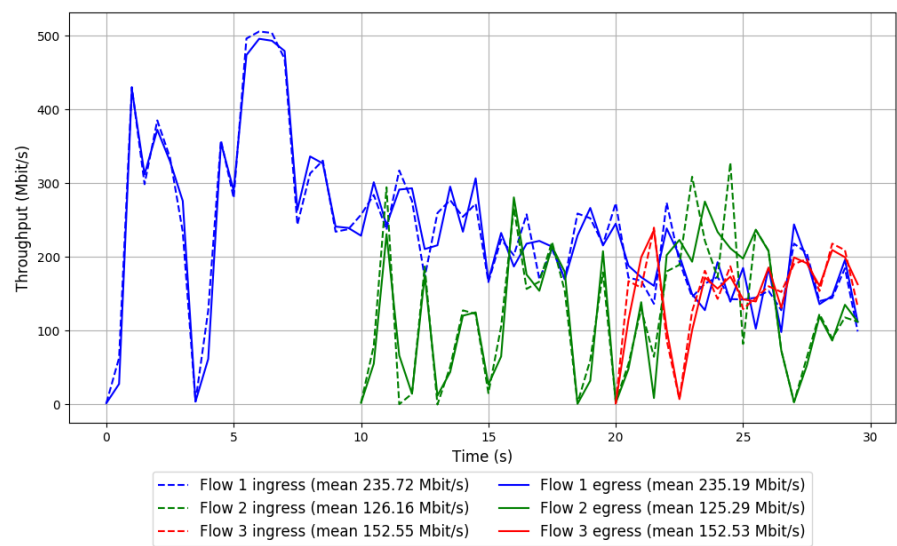
-- Flow 3:

Average throughput: 152.53 Mbit/s

95th percentile per-packet one-way delay: 112.527 ms

Loss rate: 0.02%

Run 10: Report of Verus — Data Link

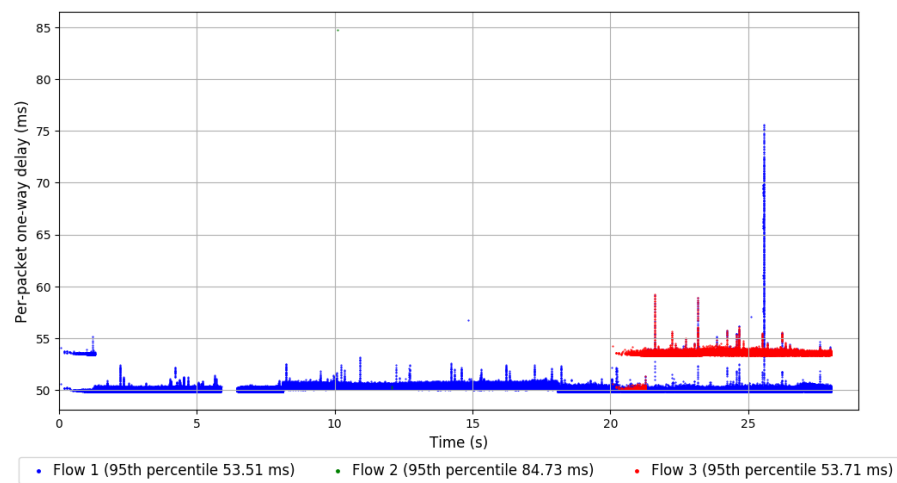
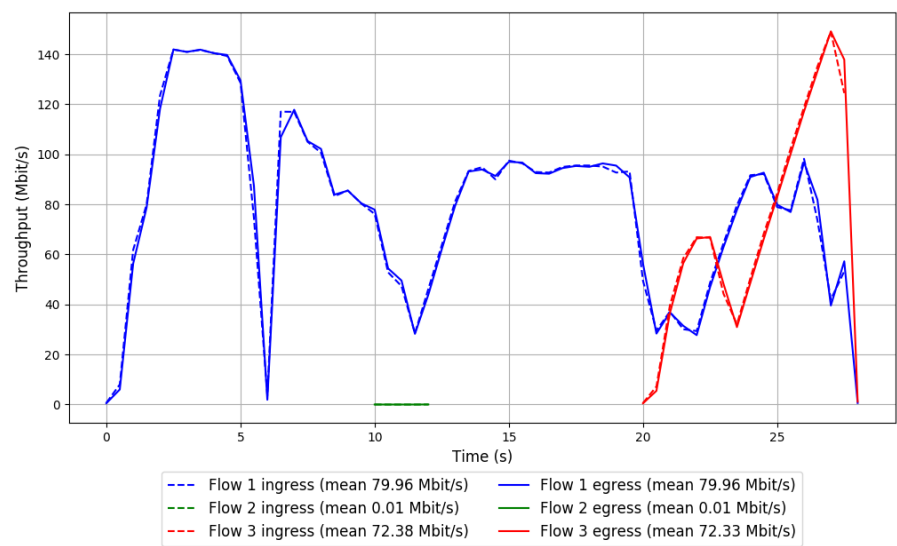


```
Run 1: Statistics of Copa

Start at: 2018-01-03 01:19:01
End at: 2018-01-03 01:19:31

# Below is generated by plot.py at 2018-01-03 05:32:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.49 Mbit/s
95th percentile per-packet one-way delay: 53.593 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.96 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 84.729 ms
Loss rate: 46.17%
-- Flow 3:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.06%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-03 01:32:40

End at: 2018-01-03 01:33:10

Below is generated by plot.py at 2018-01-03 05:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.76 Mbit/s

95th percentile per-packet one-way delay: 53.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.40 Mbit/s

95th percentile per-packet one-way delay: 53.659 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.00%

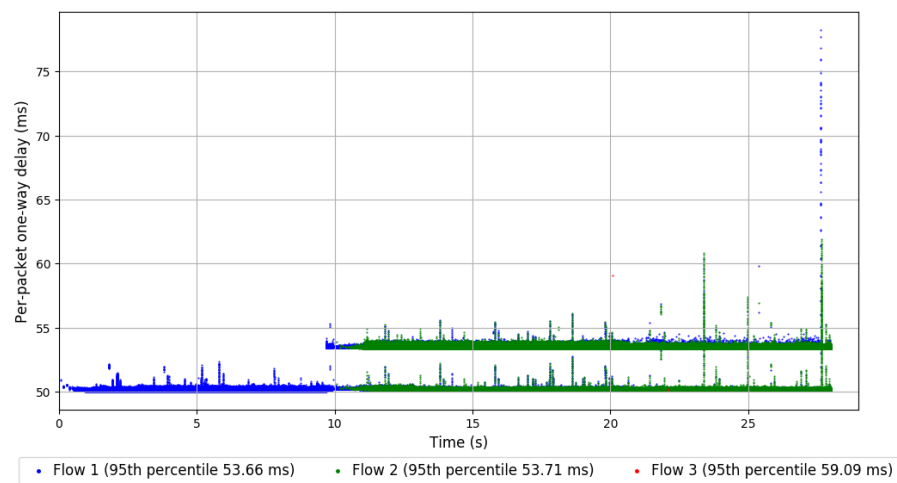
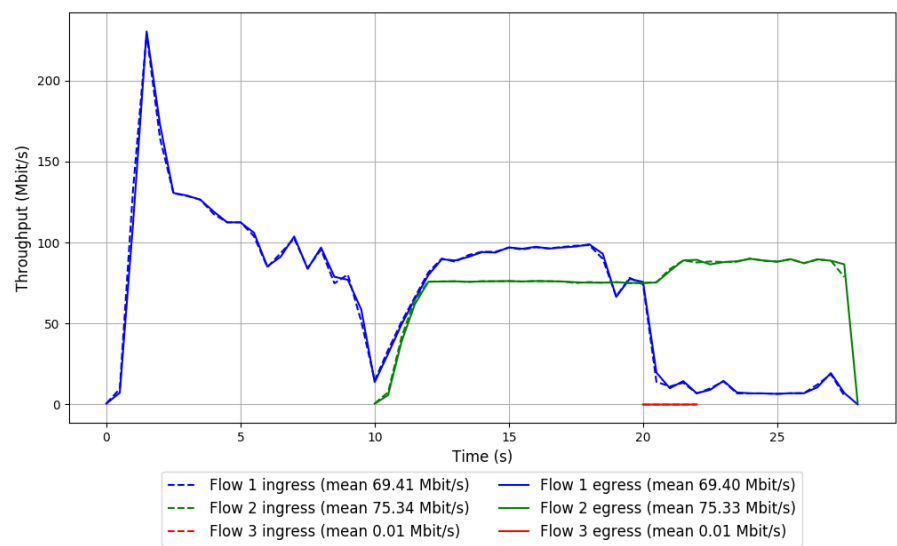
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 59.087 ms

Loss rate: 46.17%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-03 01:46:25

End at: 2018-01-03 01:46:55

Below is generated by plot.py at 2018-01-03 05:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.46 Mbit/s

95th percentile per-packet one-way delay: 53.735 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 53.717 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.21 Mbit/s

95th percentile per-packet one-way delay: 53.843 ms

Loss rate: 0.00%

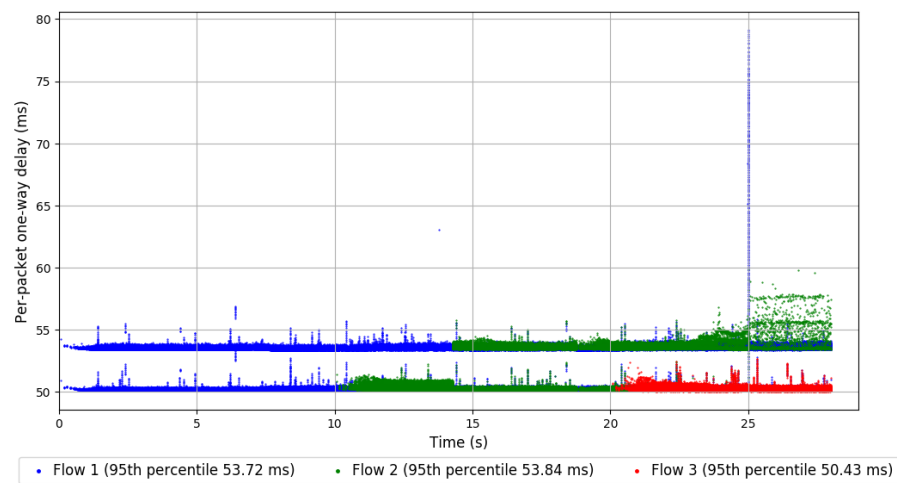
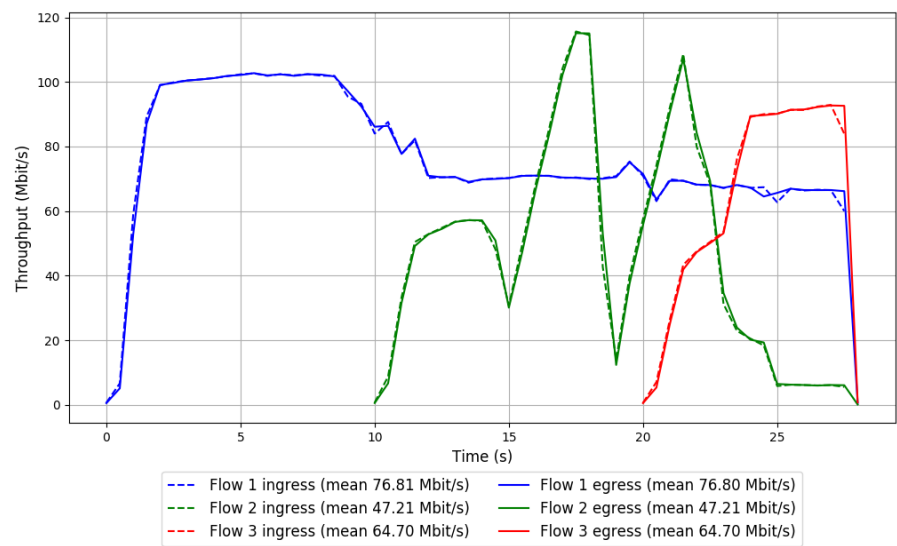
-- Flow 3:

Average throughput: 64.70 Mbit/s

95th percentile per-packet one-way delay: 50.430 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-03 02:00:06

End at: 2018-01-03 02:00:36

Below is generated by plot.py at 2018-01-03 05:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.98 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.63 Mbit/s

95th percentile per-packet one-way delay: 53.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 53.866 ms

Loss rate: 0.00%

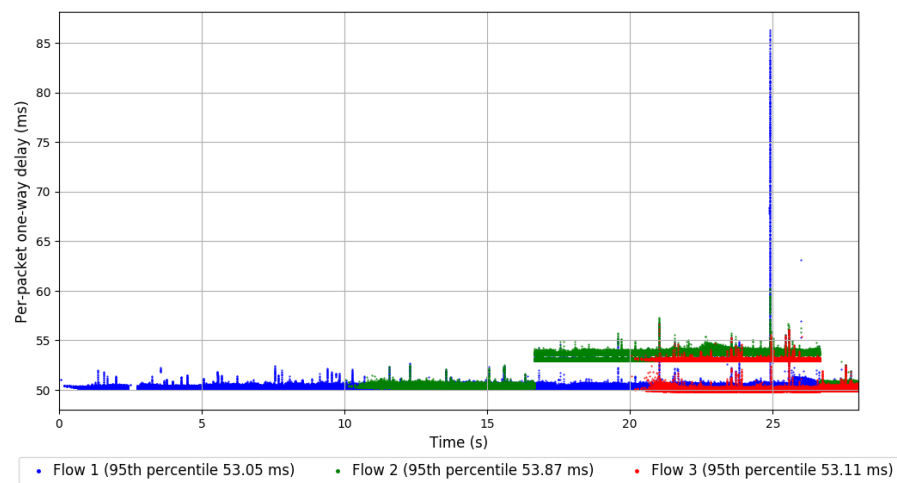
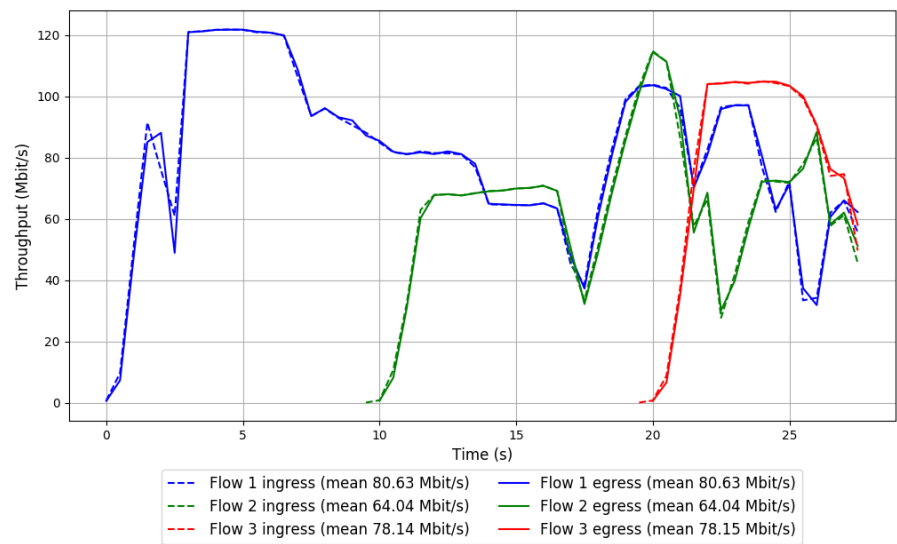
-- Flow 3:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 53.110 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

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

End at: 2018-01-03 02:14:44

Below is generated by plot.py at 2018-01-03 05:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.61 Mbit/s

95th percentile per-packet one-way delay: 53.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 53.082 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 53.135 ms

Loss rate: 0.00%

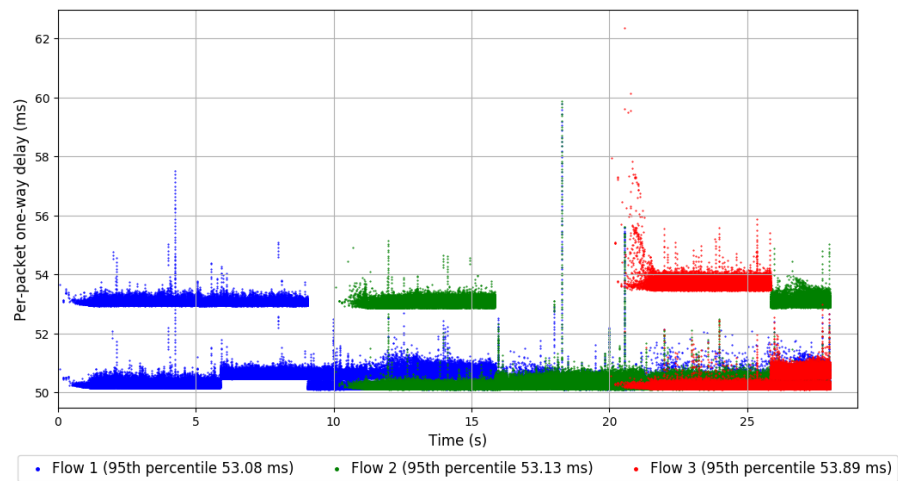
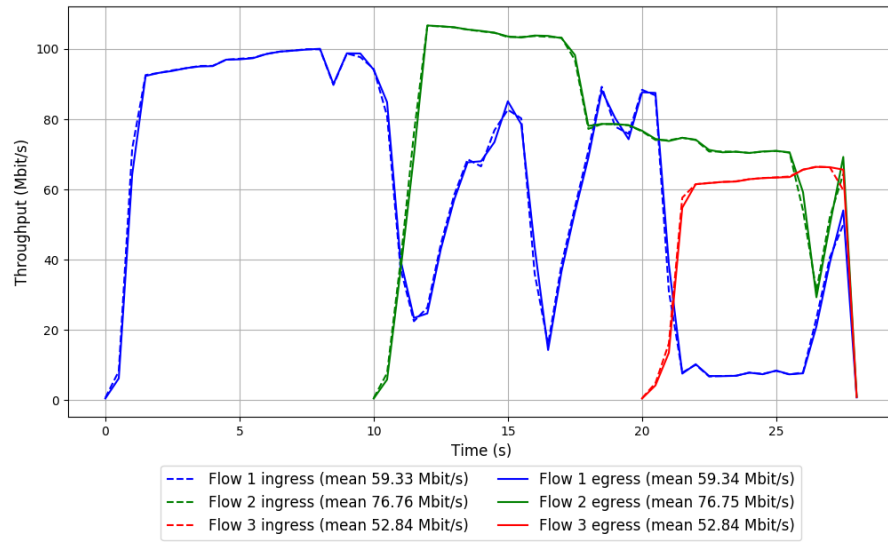
-- Flow 3:

Average throughput: 52.84 Mbit/s

95th percentile per-packet one-way delay: 53.894 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-03 02:27:53

End at: 2018-01-03 02:28:23

Below is generated by plot.py at 2018-01-03 05:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 54.230 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 54.236 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 53.978 ms

Loss rate: 0.01%

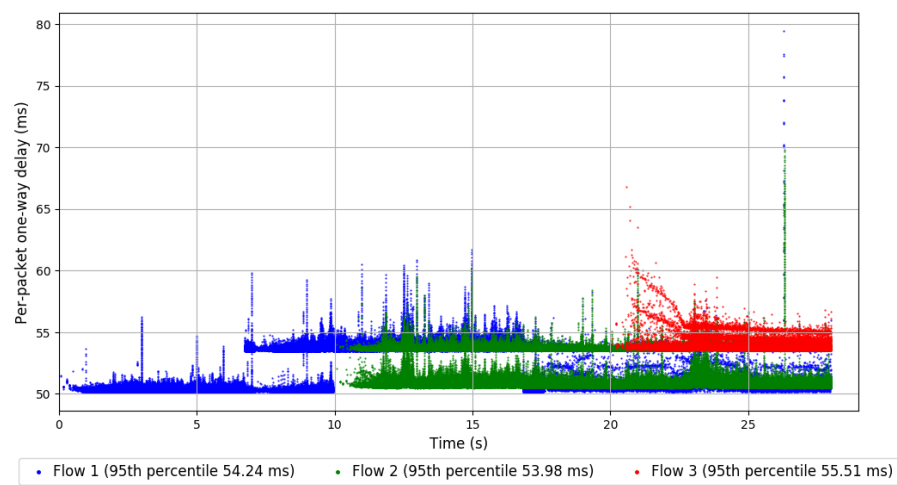
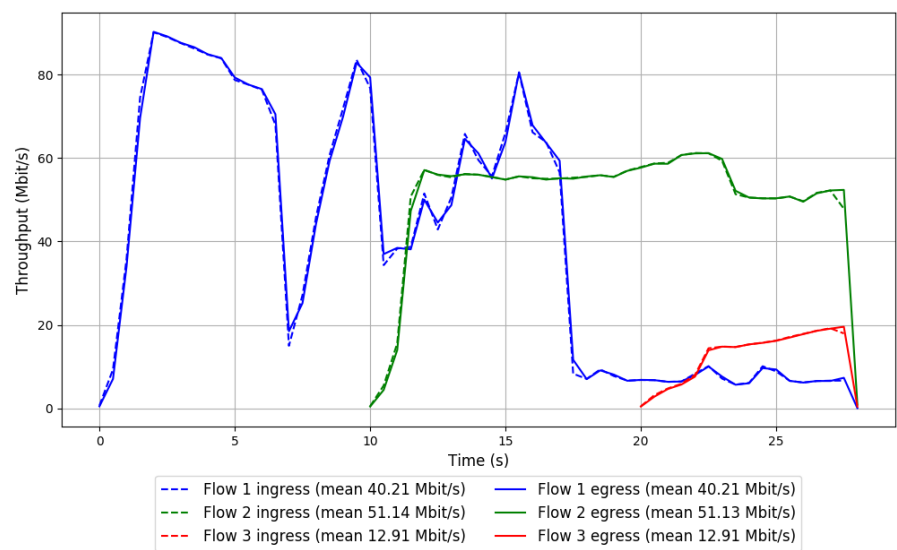
-- Flow 3:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 55.511 ms

Loss rate: 0.03%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-03 02:39:59

End at: 2018-01-03 02:40:29

Below is generated by plot.py at 2018-01-03 05:34:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.02 Mbit/s

95th percentile per-packet one-way delay: 53.629 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.05 Mbit/s

95th percentile per-packet one-way delay: 53.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 50.408 ms

Loss rate: 0.00%

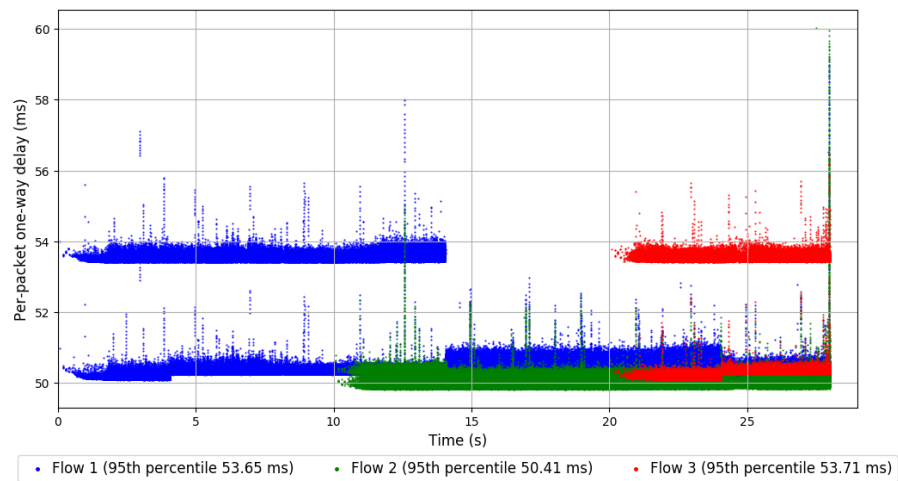
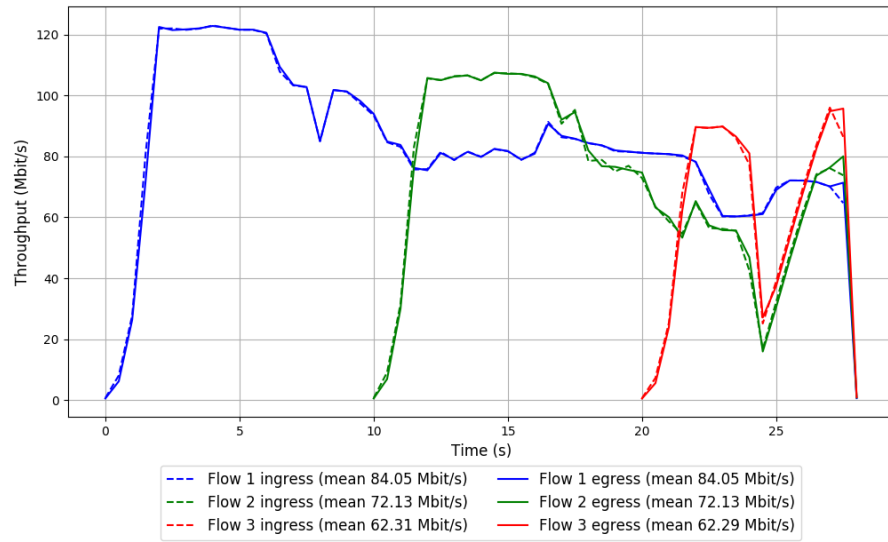
-- Flow 3:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-03 02:53:55

End at: 2018-01-03 02:54:25

Below is generated by plot.py at 2018-01-03 05:34:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.42 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.39 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.00%

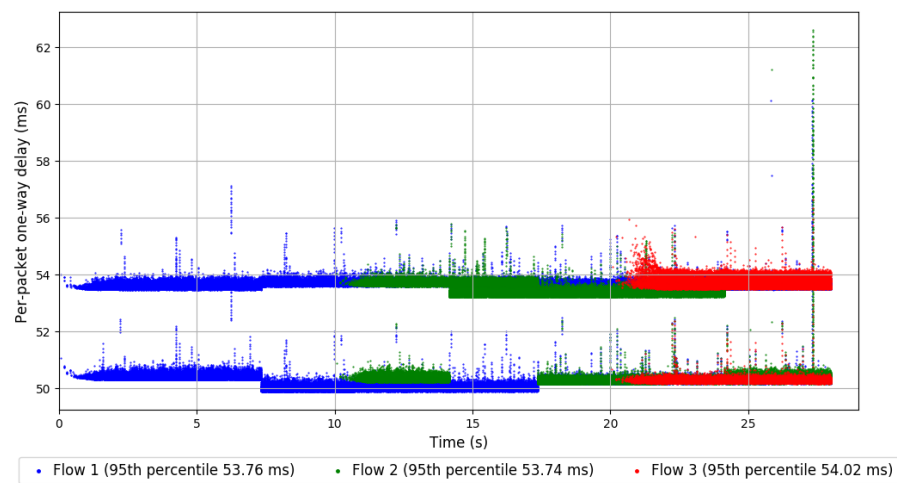
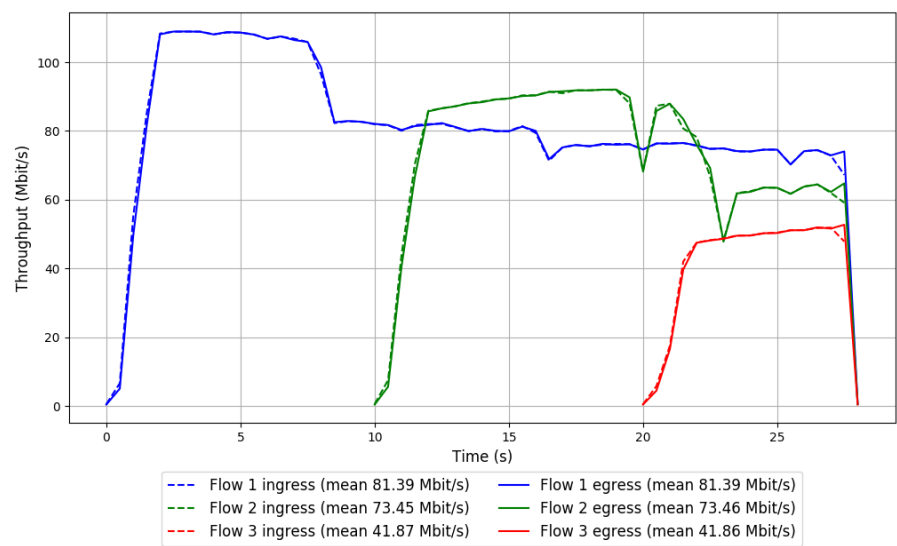
-- Flow 3:

Average throughput: 41.86 Mbit/s

95th percentile per-packet one-way delay: 54.019 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-03 03:07:46

End at: 2018-01-03 03:08:16

Below is generated by plot.py at 2018-01-03 05:34:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.68 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.48 Mbit/s

95th percentile per-packet one-way delay: 53.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.00%

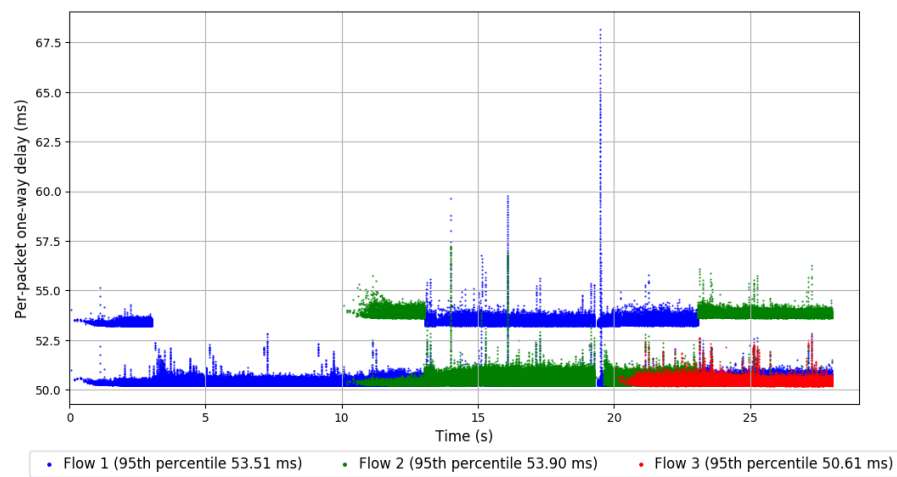
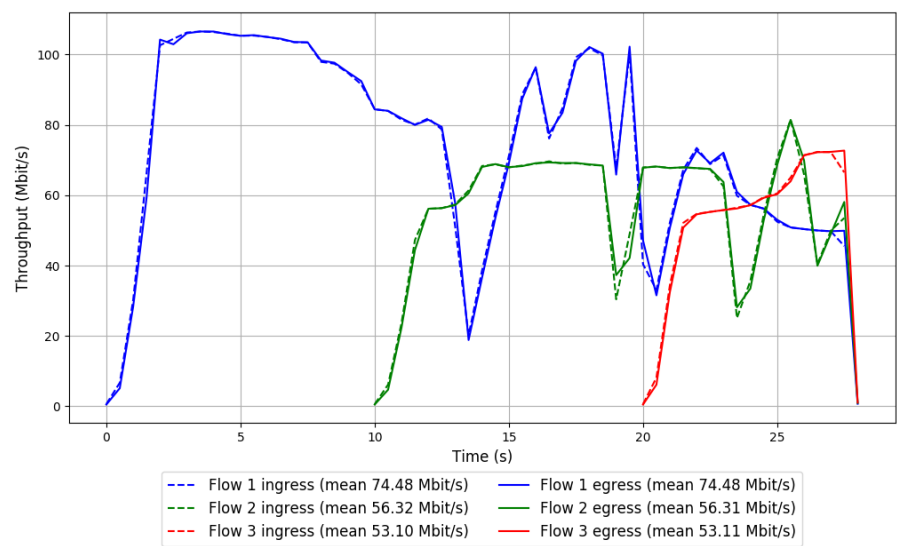
-- Flow 3:

Average throughput: 53.11 Mbit/s

95th percentile per-packet one-way delay: 50.608 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-03 03:21:19

End at: 2018-01-03 03:21:49

Below is generated by plot.py at 2018-01-03 05:34:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.98 Mbit/s

95th percentile per-packet one-way delay: 53.870 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.38 Mbit/s

95th percentile per-packet one-way delay: 53.867 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.16 Mbit/s

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

Loss rate: 0.00%

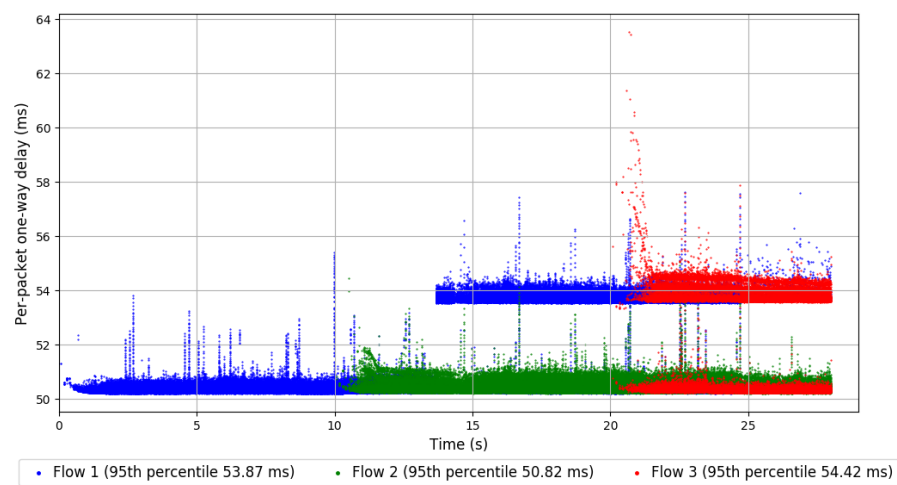
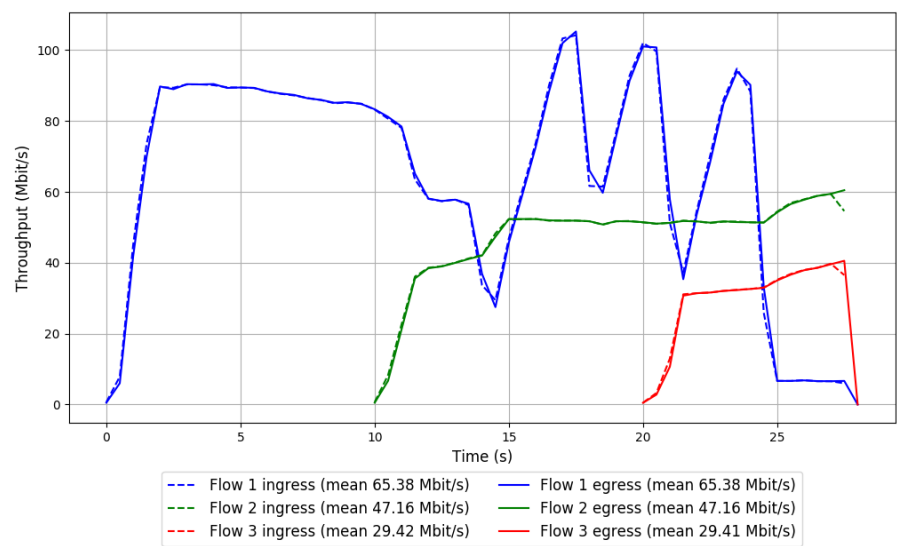
-- Flow 3:

Average throughput: 29.41 Mbit/s

95th percentile per-packet one-way delay: 54.419 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

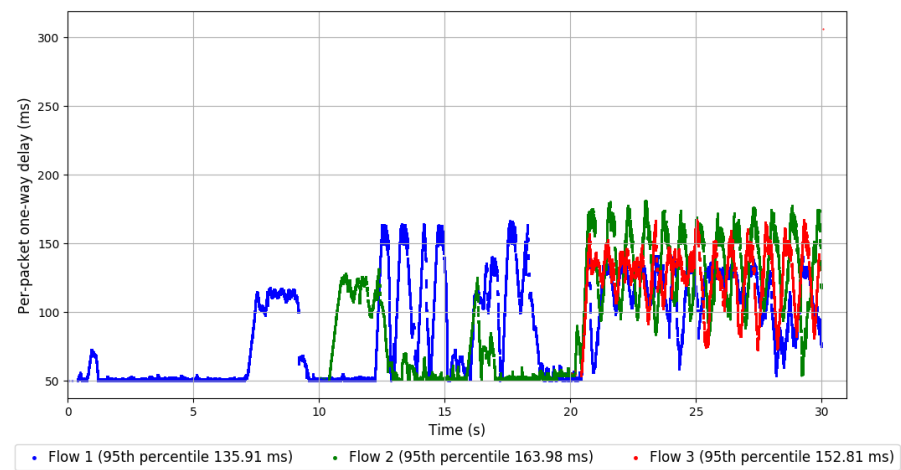
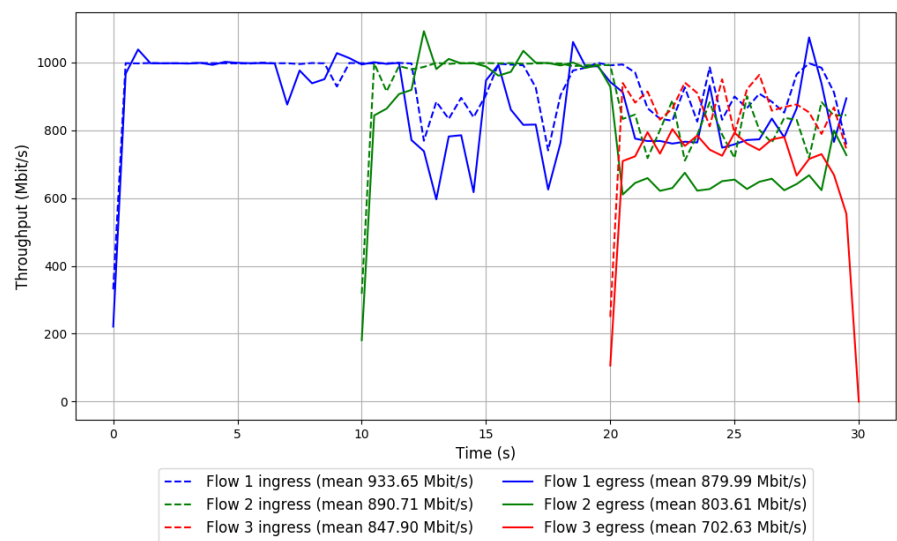


```
Run 1: Statistics of FillP

Start at: 2018-01-03 01:20:42
End at: 2018-01-03 01:21:12

# Below is generated by plot.py at 2018-01-03 06:01:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1645.05 Mbit/s
95th percentile per-packet one-way delay: 154.952 ms
Loss rate: 8.72%
-- Flow 1:
Average throughput: 879.99 Mbit/s
95th percentile per-packet one-way delay: 135.906 ms
Loss rate: 5.74%
-- Flow 2:
Average throughput: 803.61 Mbit/s
95th percentile per-packet one-way delay: 163.977 ms
Loss rate: 9.77%
-- Flow 3:
Average throughput: 702.63 Mbit/s
95th percentile per-packet one-way delay: 152.807 ms
Loss rate: 16.45%
```


Run 1: Report of FillP — Data Link

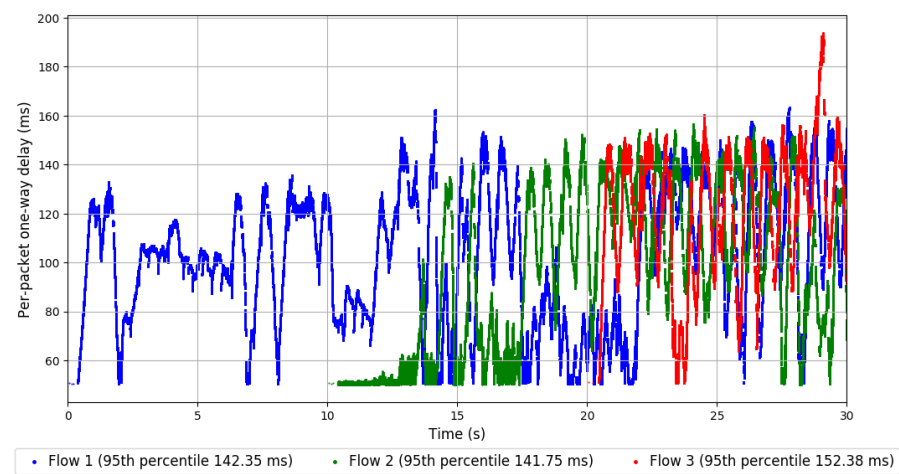
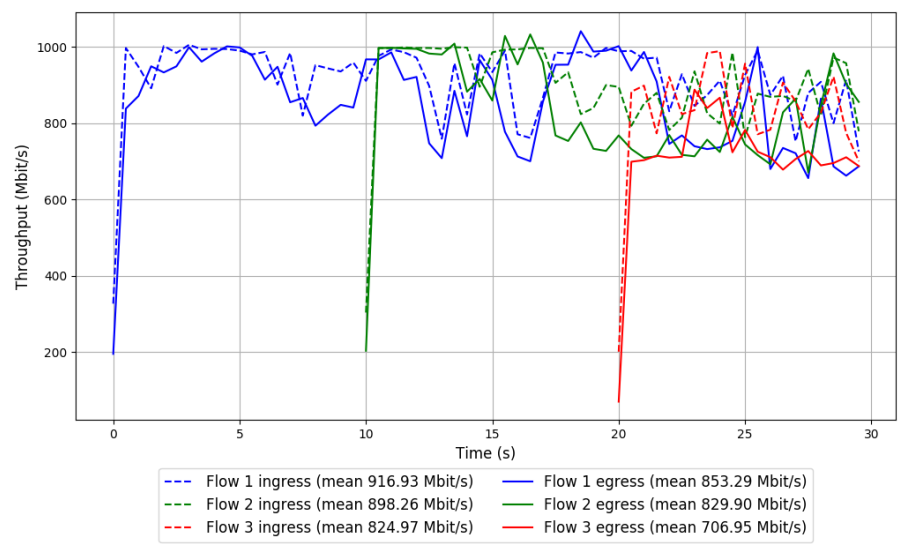


```
Run 2: Statistics of FillP

Start at: 2018-01-03 01:34:14
End at: 2018-01-03 01:34:44

# Below is generated by plot.py at 2018-01-03 06:01:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1640.16 Mbit/s
95th percentile per-packet one-way delay: 144.488 ms
Loss rate: 8.28%
-- Flow 1:
Average throughput: 853.29 Mbit/s
95th percentile per-packet one-way delay: 142.349 ms
Loss rate: 6.93%
-- Flow 2:
Average throughput: 829.90 Mbit/s
95th percentile per-packet one-way delay: 141.754 ms
Loss rate: 7.59%
-- Flow 3:
Average throughput: 706.95 Mbit/s
95th percentile per-packet one-way delay: 152.377 ms
Loss rate: 14.28%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-03 01:48:07

End at: 2018-01-03 01:48:37

Below is generated by plot.py at 2018-01-03 06:01:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 1586.73 Mbit/s

95th percentile per-packet one-way delay: 139.095 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 785.51 Mbit/s

95th percentile per-packet one-way delay: 127.841 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 842.22 Mbit/s

95th percentile per-packet one-way delay: 140.118 ms

Loss rate: 7.11%

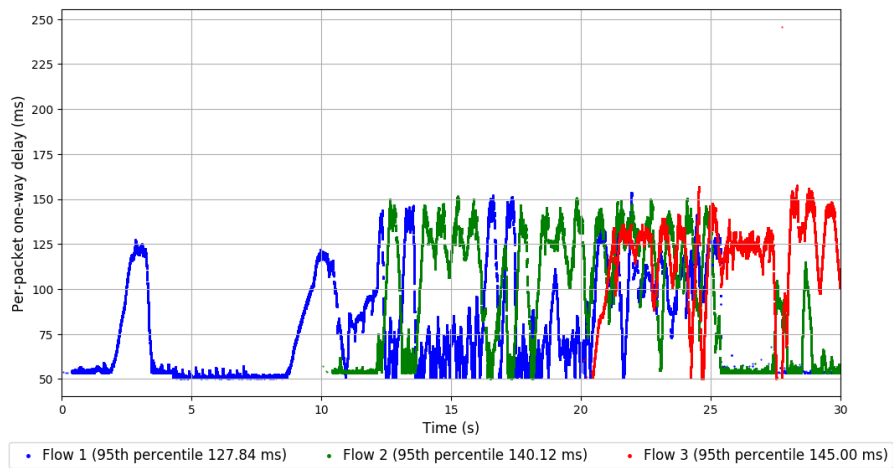
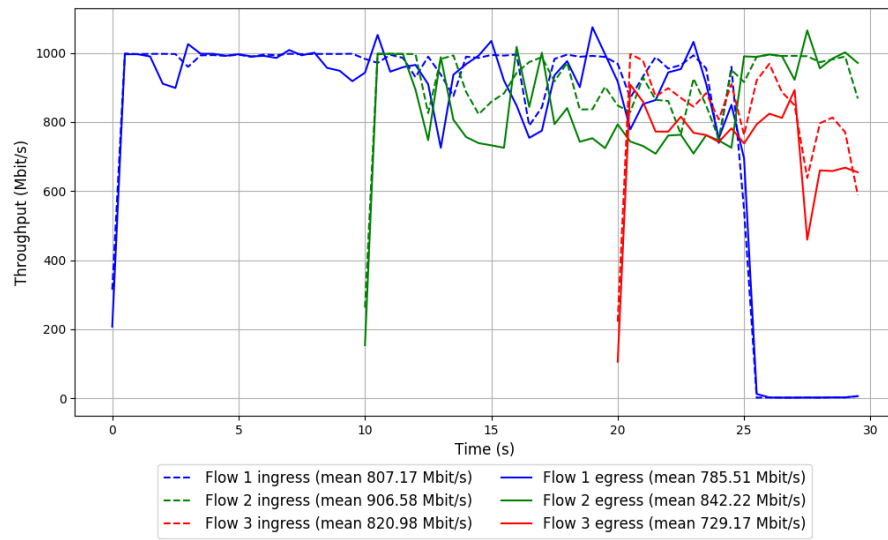
-- Flow 3:

Average throughput: 729.17 Mbit/s

95th percentile per-packet one-way delay: 144.995 ms

Loss rate: 11.24%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

End at: 2018-01-03 02:02:30

Below is generated by plot.py at 2018-01-03 06:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1804.58 Mbit/s

95th percentile per-packet one-way delay: 204.440 ms

Loss rate: 4.55%

-- Flow 1:

Average throughput: 917.35 Mbit/s

95th percentile per-packet one-way delay: 130.145 ms

Loss rate: 3.95%

-- Flow 2:

Average throughput: 937.66 Mbit/s

95th percentile per-packet one-way delay: 244.809 ms

Loss rate: 2.43%

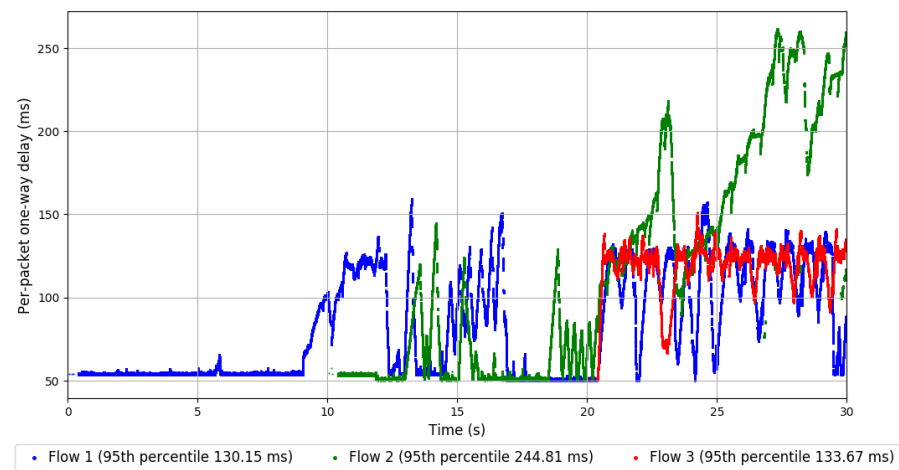
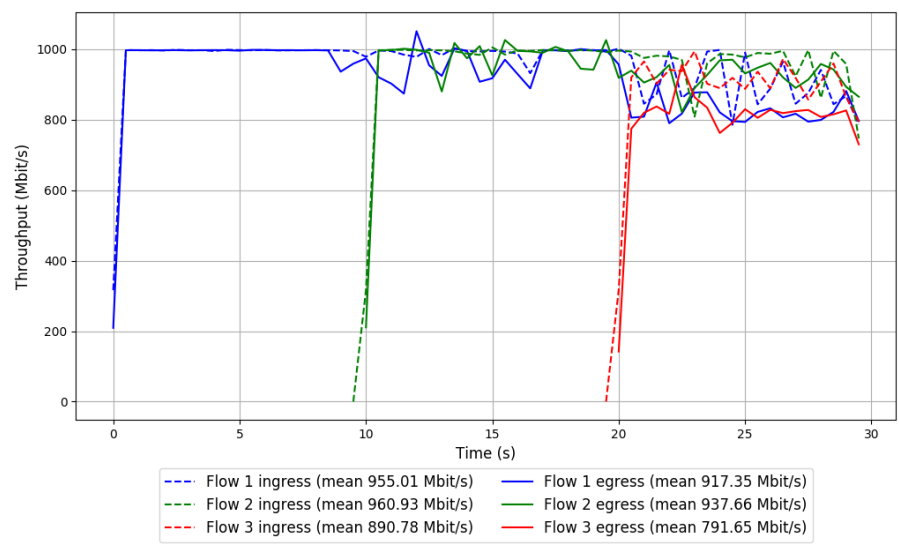
-- Flow 3:

Average throughput: 791.65 Mbit/s

95th percentile per-packet one-way delay: 133.671 ms

Loss rate: 11.11%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-03 02:16:00

End at: 2018-01-03 02:16:30

Below is generated by plot.py at 2018-01-03 06:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1556.52 Mbit/s

95th percentile per-packet one-way delay: 269.214 ms

Loss rate: 7.48%

-- Flow 1:

Average throughput: 847.34 Mbit/s

95th percentile per-packet one-way delay: 263.088 ms

Loss rate: 4.39%

-- Flow 2:

Average throughput: 696.09 Mbit/s

95th percentile per-packet one-way delay: 277.972 ms

Loss rate: 10.13%

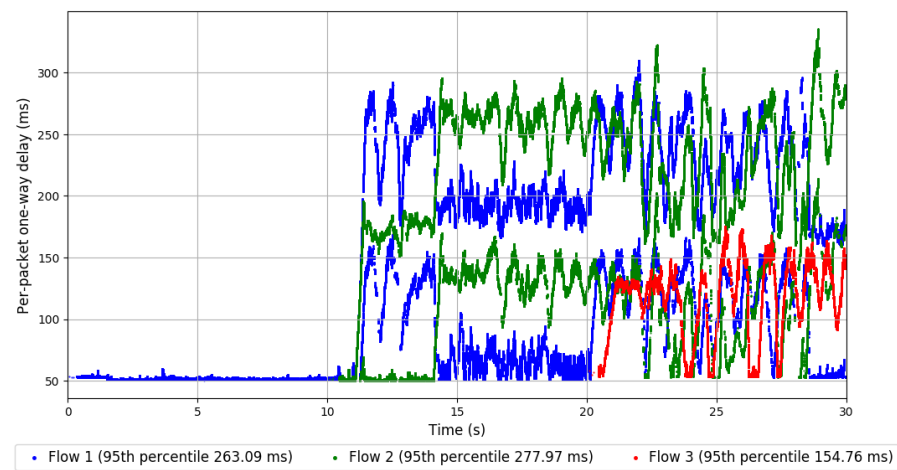
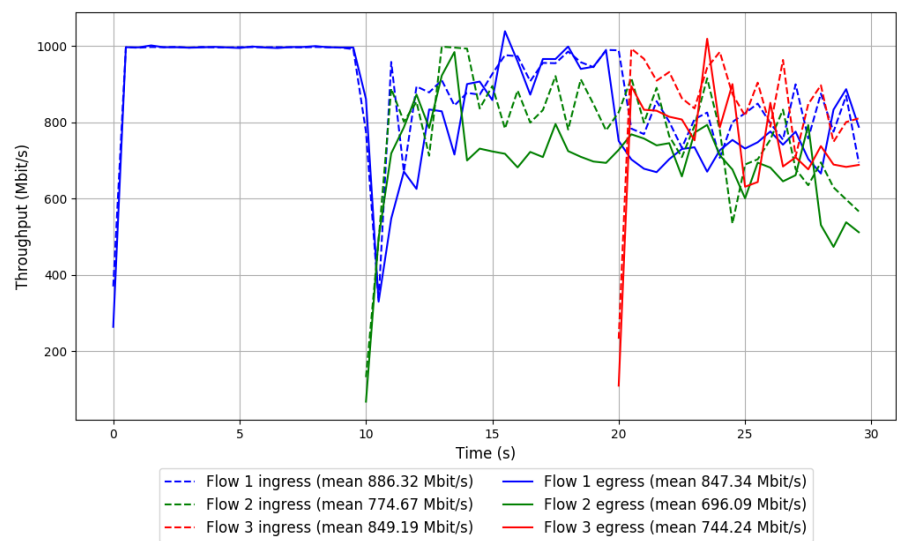
-- Flow 3:

Average throughput: 744.24 Mbit/s

95th percentile per-packet one-way delay: 154.765 ms

Loss rate: 12.38%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-03 02:29:31

End at: 2018-01-03 02:30:01

Below is generated by plot.py at 2018-01-03 06:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.39 Mbit/s

95th percentile per-packet one-way delay: 80.256 ms

Loss rate: 29.87%

-- Flow 1:

Average throughput: 173.44 Mbit/s

95th percentile per-packet one-way delay: 79.497 ms

Loss rate: 28.88%

-- Flow 2:

Average throughput: 137.78 Mbit/s

95th percentile per-packet one-way delay: 81.364 ms

Loss rate: 29.57%

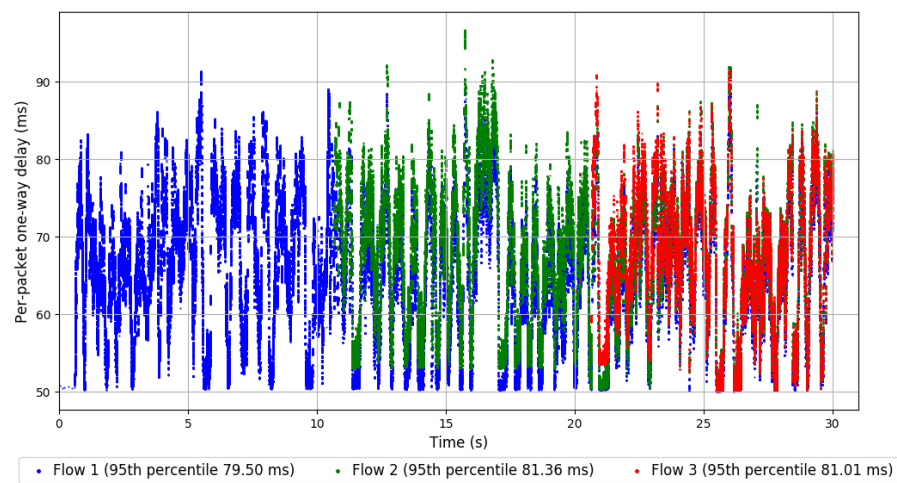
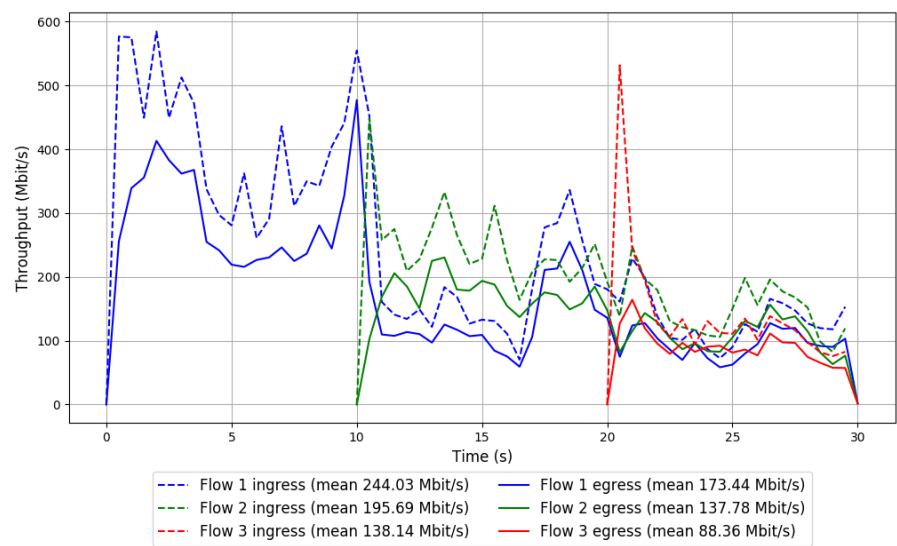
-- Flow 3:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 81.012 ms

Loss rate: 35.98%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-03 02:41:47

End at: 2018-01-03 02:42:17

Below is generated by plot.py at 2018-01-03 06:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1553.07 Mbit/s

95th percentile per-packet one-way delay: 267.304 ms

Loss rate: 7.17%

-- Flow 1:

Average throughput: 831.69 Mbit/s

95th percentile per-packet one-way delay: 266.853 ms

Loss rate: 6.93%

-- Flow 2:

Average throughput: 817.15 Mbit/s

95th percentile per-packet one-way delay: 278.659 ms

Loss rate: 6.82%

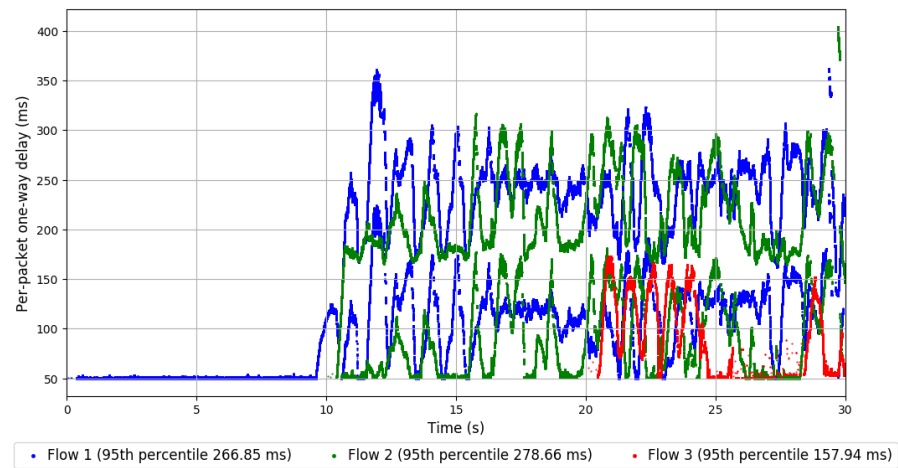
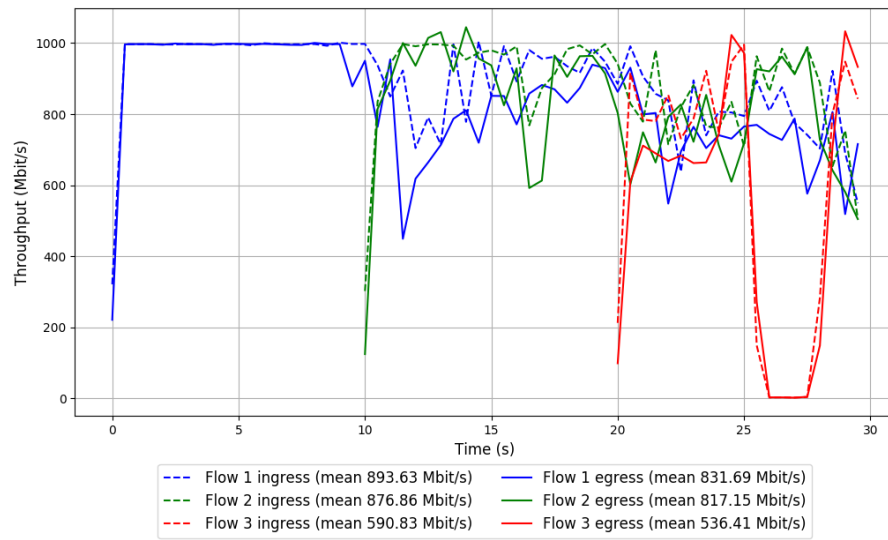
-- Flow 3:

Average throughput: 536.41 Mbit/s

95th percentile per-packet one-way delay: 157.943 ms

Loss rate: 9.29%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-03 02:55:35

End at: 2018-01-03 02:56:05

Below is generated by plot.py at 2018-01-03 06:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1558.41 Mbit/s

95th percentile per-packet one-way delay: 270.433 ms

Loss rate: 7.66%

-- Flow 1:

Average throughput: 815.45 Mbit/s

95th percentile per-packet one-way delay: 137.862 ms

Loss rate: 3.05%

-- Flow 2:

Average throughput: 793.26 Mbit/s

95th percentile per-packet one-way delay: 275.165 ms

Loss rate: 10.17%

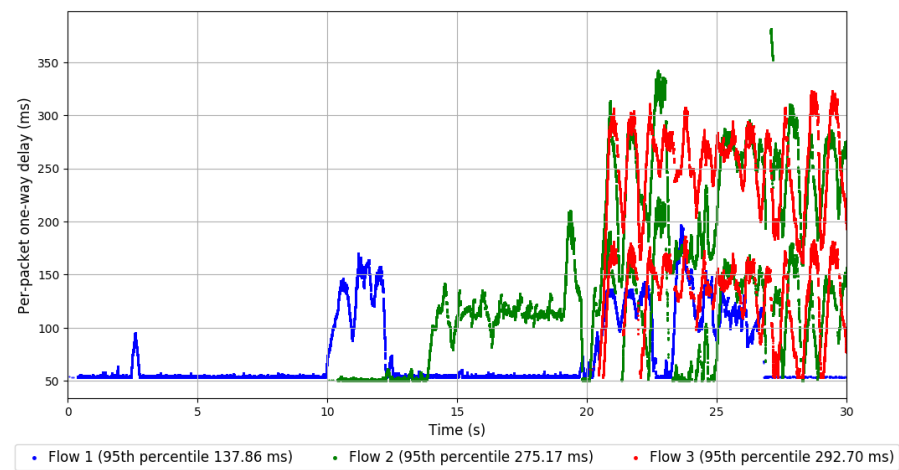
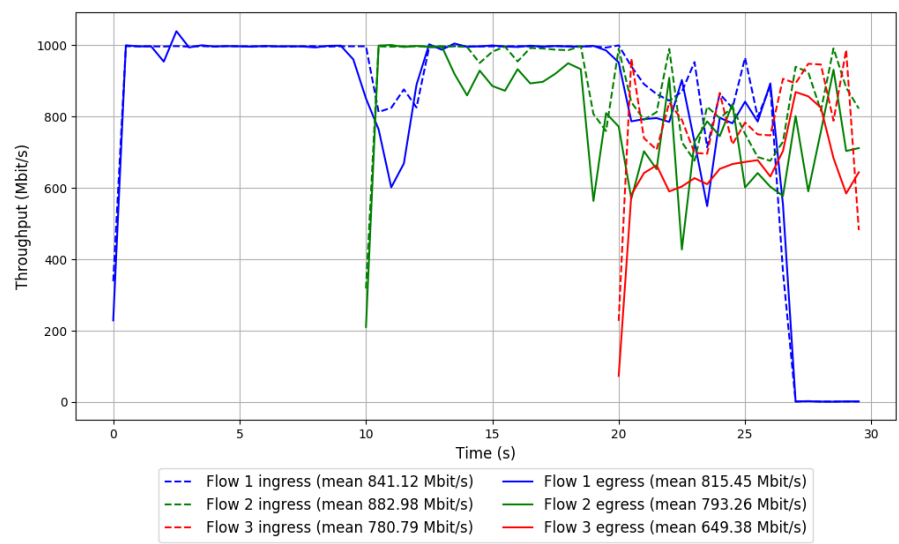
-- Flow 3:

Average throughput: 649.38 Mbit/s

95th percentile per-packet one-way delay: 292.699 ms

Loss rate: 16.91%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-03 03:09:39

End at: 2018-01-03 03:10:09

Below is generated by plot.py at 2018-01-03 06:12:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 1648.31 Mbit/s

95th percentile per-packet one-way delay: 145.190 ms

Loss rate: 8.67%

-- Flow 1:

Average throughput: 872.79 Mbit/s

95th percentile per-packet one-way delay: 141.061 ms

Loss rate: 6.82%

-- Flow 2:

Average throughput: 799.47 Mbit/s

95th percentile per-packet one-way delay: 148.013 ms

Loss rate: 9.66%

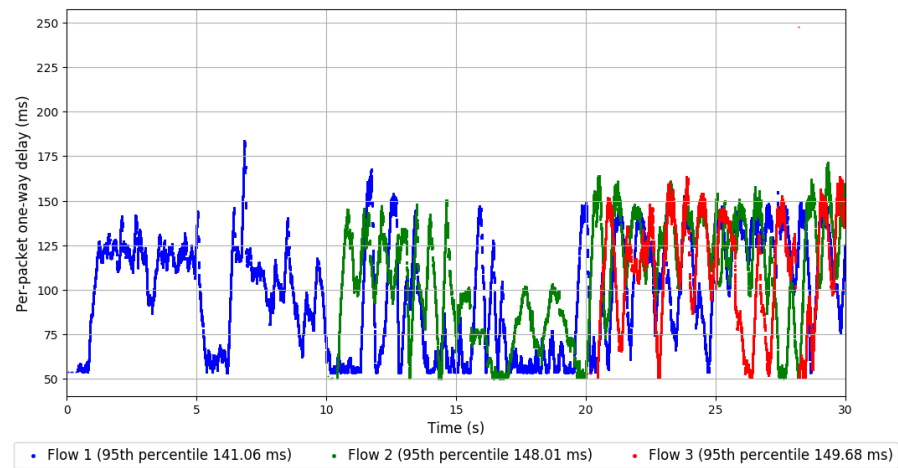
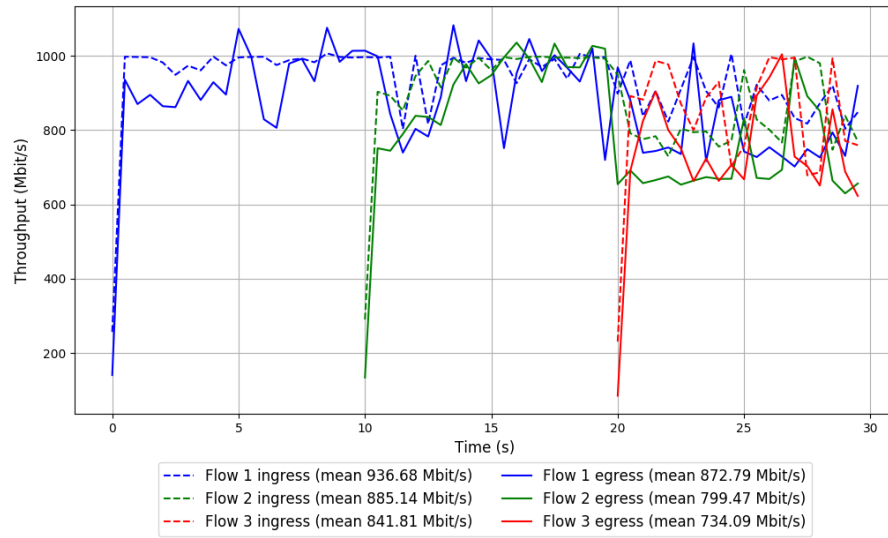
-- Flow 3:

Average throughput: 734.09 Mbit/s

95th percentile per-packet one-way delay: 149.677 ms

Loss rate: 12.78%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-03 03:23:13

End at: 2018-01-03 03:23:43

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 1653.05 Mbit/s

95th percentile per-packet one-way delay: 145.561 ms

Loss rate: 7.88%

-- Flow 1:

Average throughput: 818.43 Mbit/s

95th percentile per-packet one-way delay: 149.479 ms

Loss rate: 8.81%

-- Flow 2:

Average throughput: 859.11 Mbit/s

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

Loss rate: 5.94%

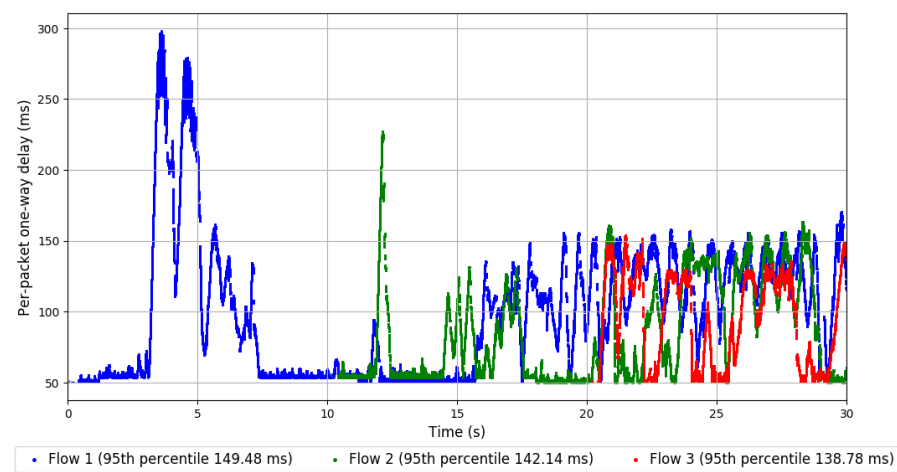
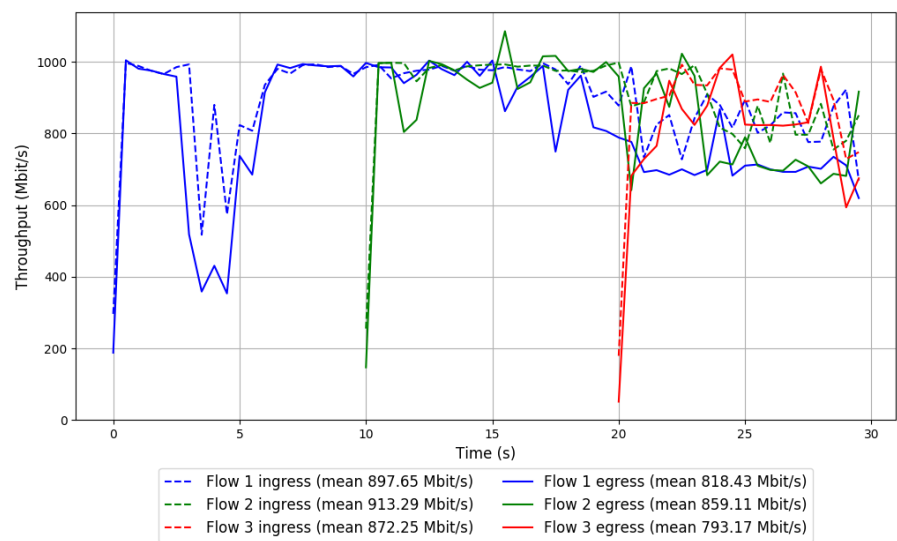
-- Flow 3:

Average throughput: 793.17 Mbit/s

95th percentile per-packet one-way delay: 138.777 ms

Loss rate: 9.04%

Run 10: Report of FillP — Data Link

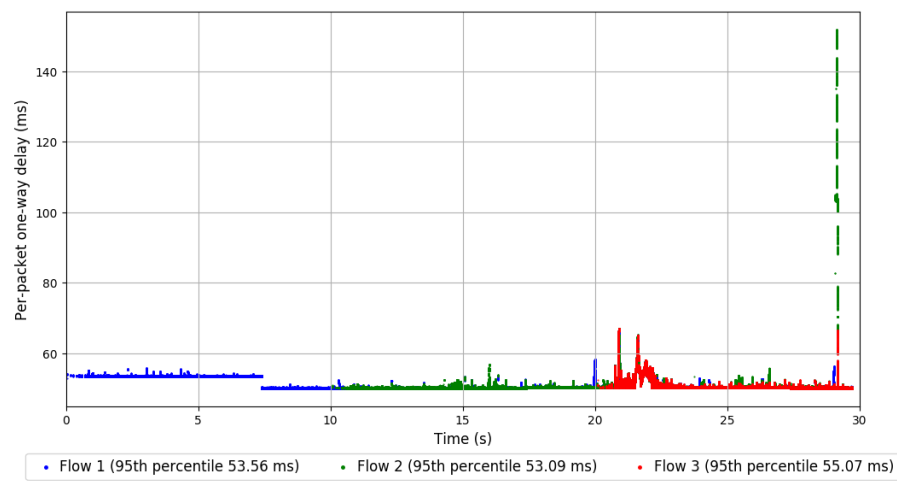
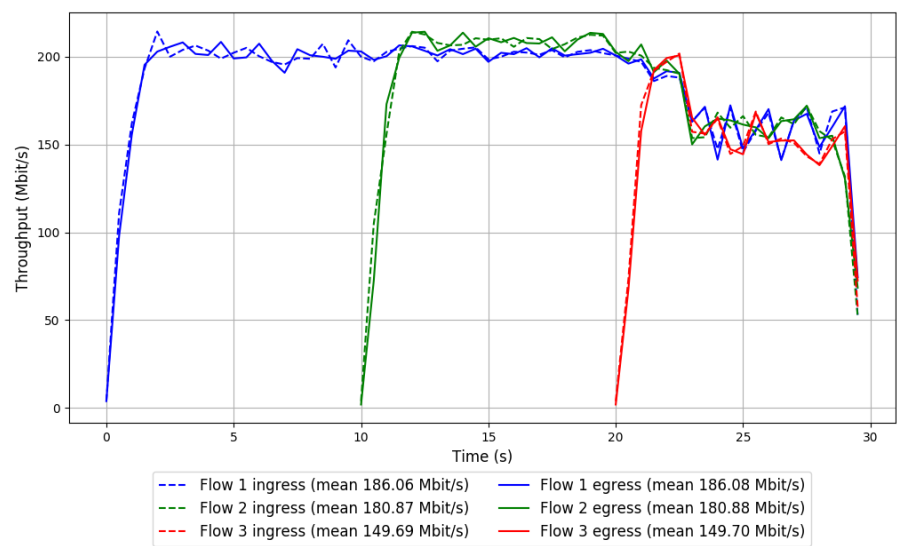


```
Run 1: Statistics of Indigo

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 06:13:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.39 Mbit/s
95th percentile per-packet one-way delay: 53.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.08 Mbit/s
95th percentile per-packet one-way delay: 53.562 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 180.88 Mbit/s
95th percentile per-packet one-way delay: 53.088 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 149.70 Mbit/s
95th percentile per-packet one-way delay: 55.067 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

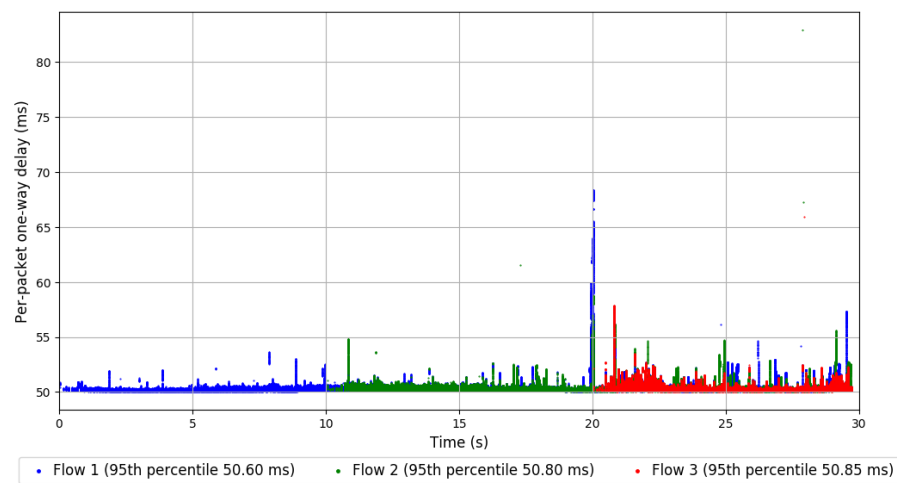
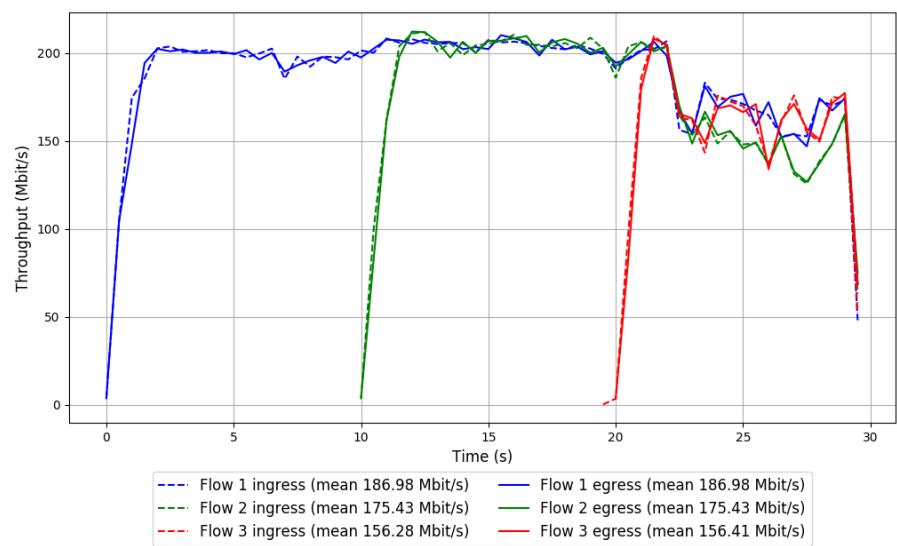


```
Run 2: Statistics of Indigo

Start at: 2018-01-03 01:30:55
End at: 2018-01-03 01:31:25

# Below is generated by plot.py at 2018-01-03 06:13:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.25 Mbit/s
95th percentile per-packet one-way delay: 50.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.98 Mbit/s
95th percentile per-packet one-way delay: 50.601 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.43 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 156.41 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-03 01:44:41

End at: 2018-01-03 01:45:11

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.28 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.47 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.07 Mbit/s

95th percentile per-packet one-way delay: 53.865 ms

Loss rate: 0.00%

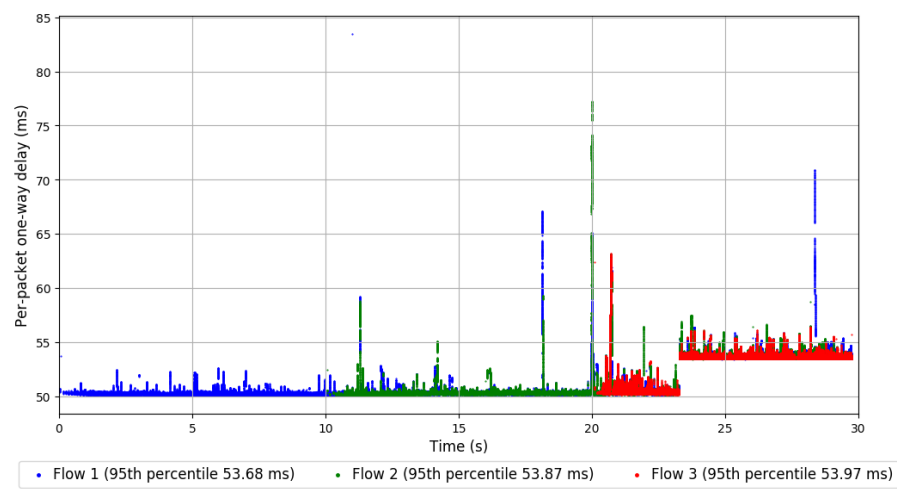
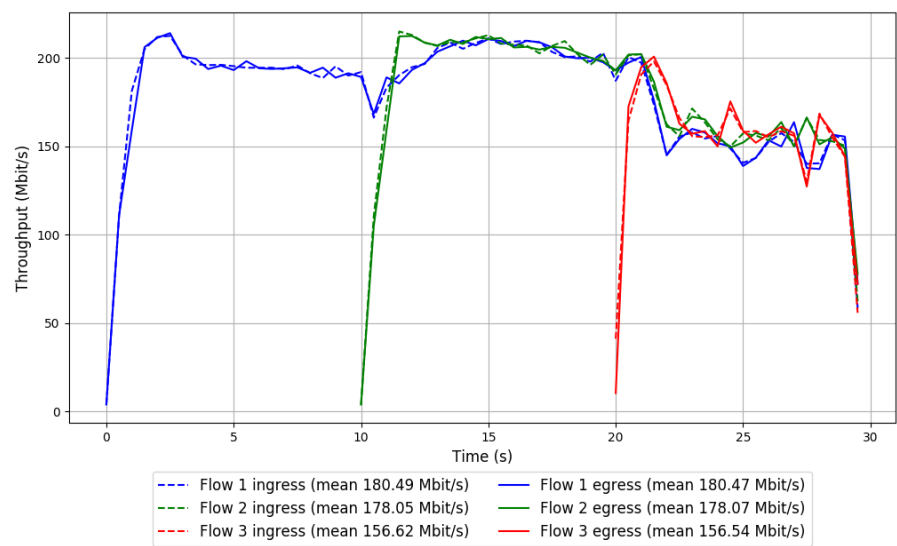
-- Flow 3:

Average throughput: 156.54 Mbit/s

95th percentile per-packet one-way delay: 53.970 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-03 01:58:22

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

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.97 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.32 Mbit/s

95th percentile per-packet one-way delay: 53.432 ms

Loss rate: 0.00%

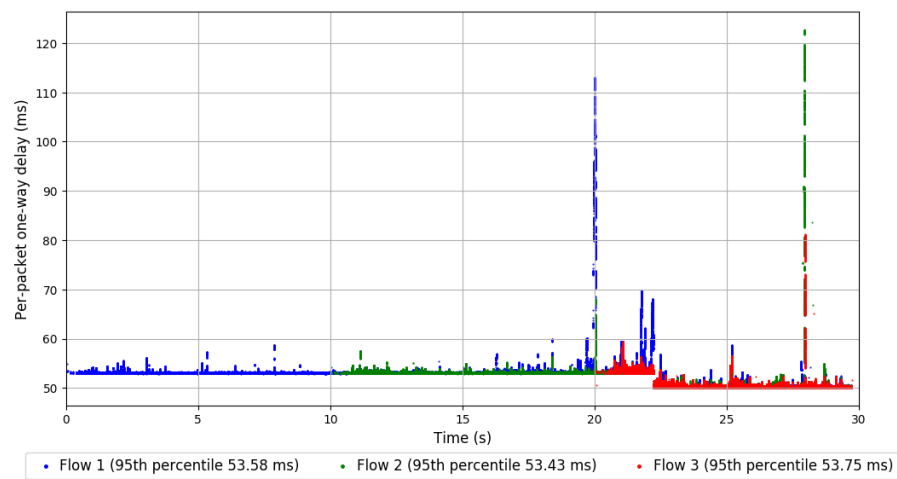
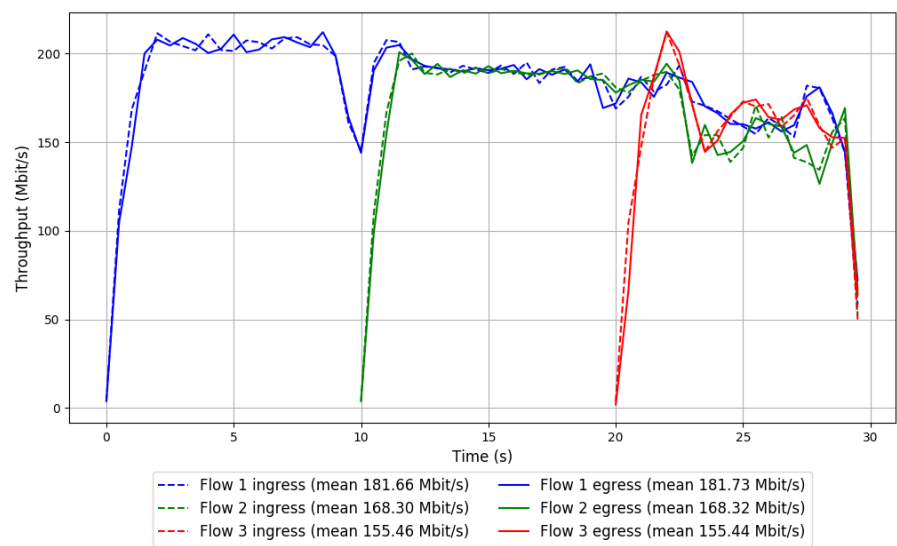
-- Flow 3:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-03 02:12:30

End at: 2018-01-03 02:13:00

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.66 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 179.52 Mbit/s

95th percentile per-packet one-way delay: 50.428 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.95 Mbit/s

95th percentile per-packet one-way delay: 50.917 ms

Loss rate: 0.00%

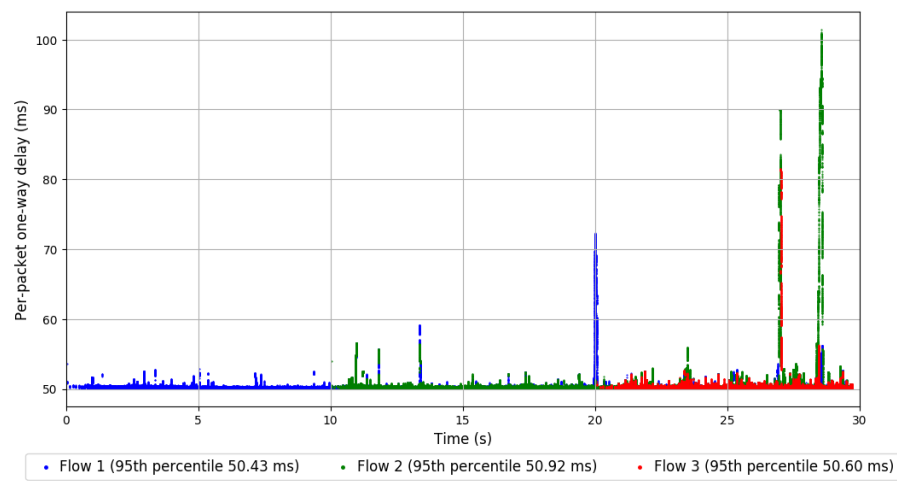
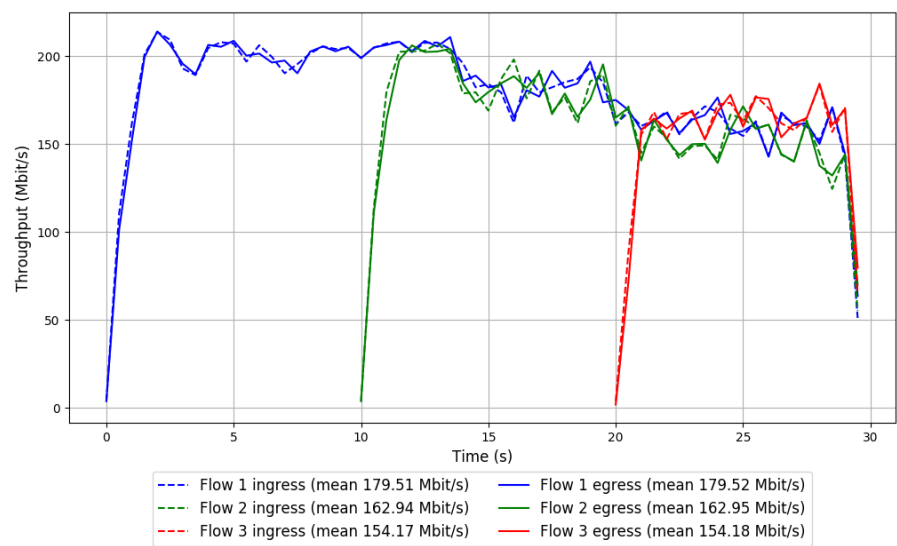
-- Flow 3:

Average throughput: 154.18 Mbit/s

95th percentile per-packet one-way delay: 50.596 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-03 02:26:09

End at: 2018-01-03 02:26:39

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.73 Mbit/s

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 174.23 Mbit/s

95th percentile per-packet one-way delay: 51.580 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 176.33 Mbit/s

95th percentile per-packet one-way delay: 52.884 ms

Loss rate: 0.01%

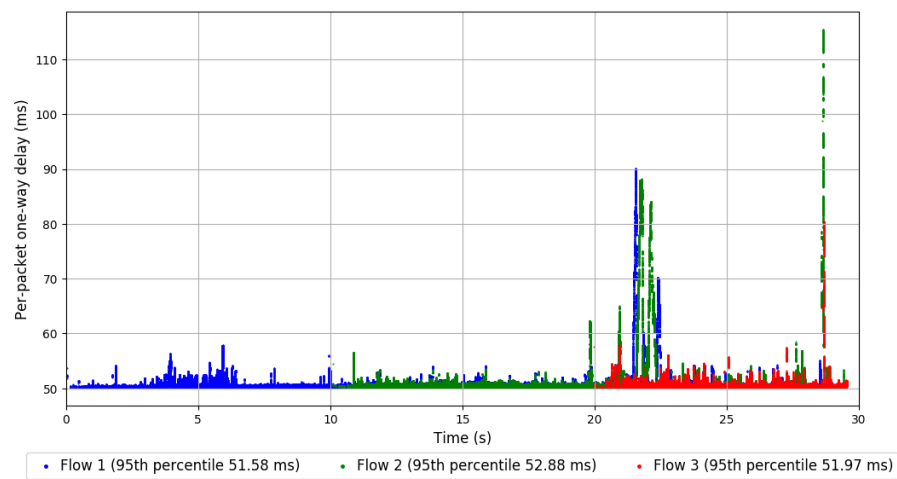
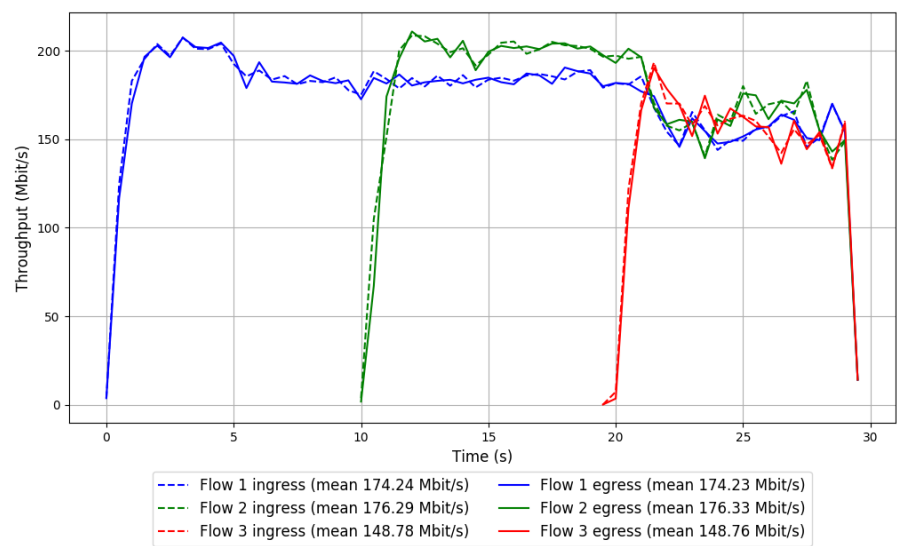
-- Flow 3:

Average throughput: 148.76 Mbit/s

95th percentile per-packet one-way delay: 51.971 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-03 02:38:16

End at: 2018-01-03 02:38:46

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.66 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.35 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.54 Mbit/s

95th percentile per-packet one-way delay: 50.662 ms

Loss rate: 0.00%

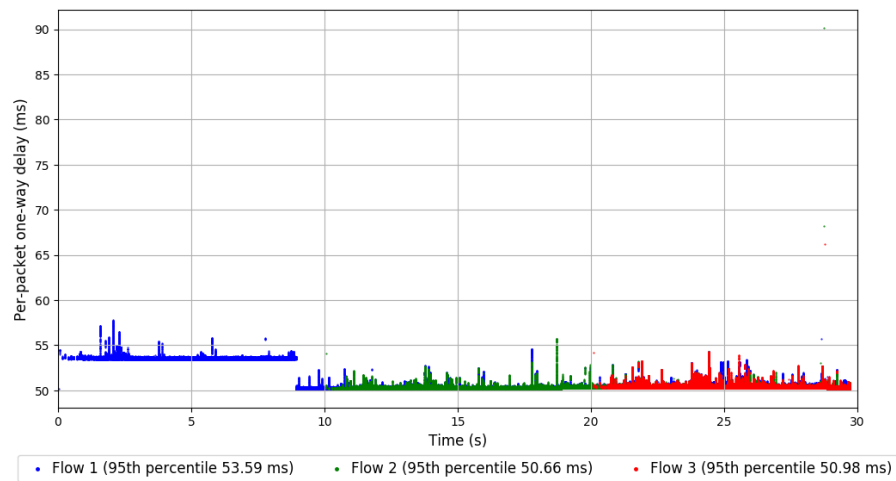
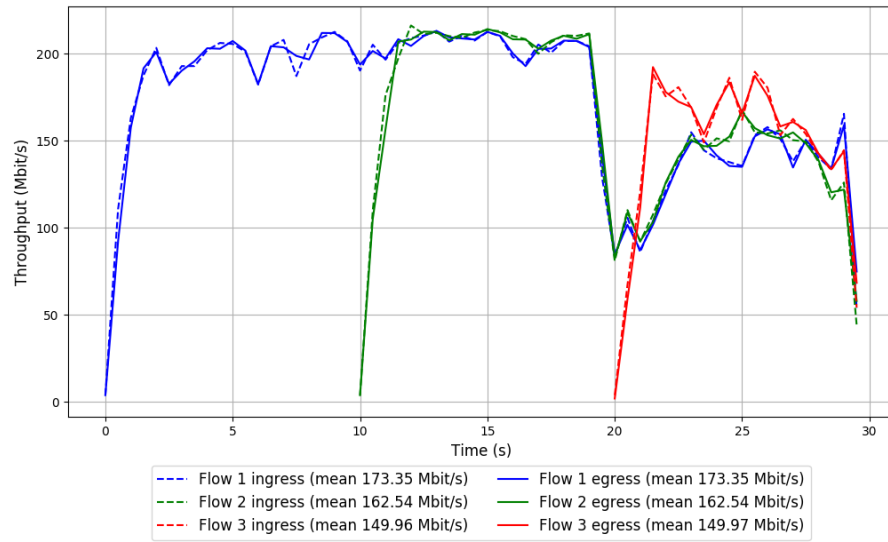
-- Flow 3:

Average throughput: 149.97 Mbit/s

95th percentile per-packet one-way delay: 50.984 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-03 02:52:11

End at: 2018-01-03 02:52:41

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.39 Mbit/s

95th percentile per-packet one-way delay: 54.964 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 180.92 Mbit/s

95th percentile per-packet one-way delay: 54.368 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 175.19 Mbit/s

95th percentile per-packet one-way delay: 55.071 ms

Loss rate: 0.01%

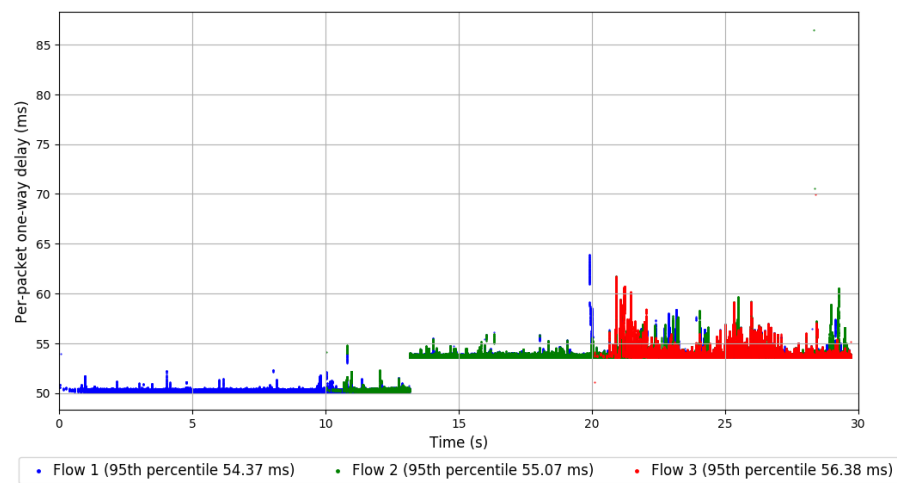
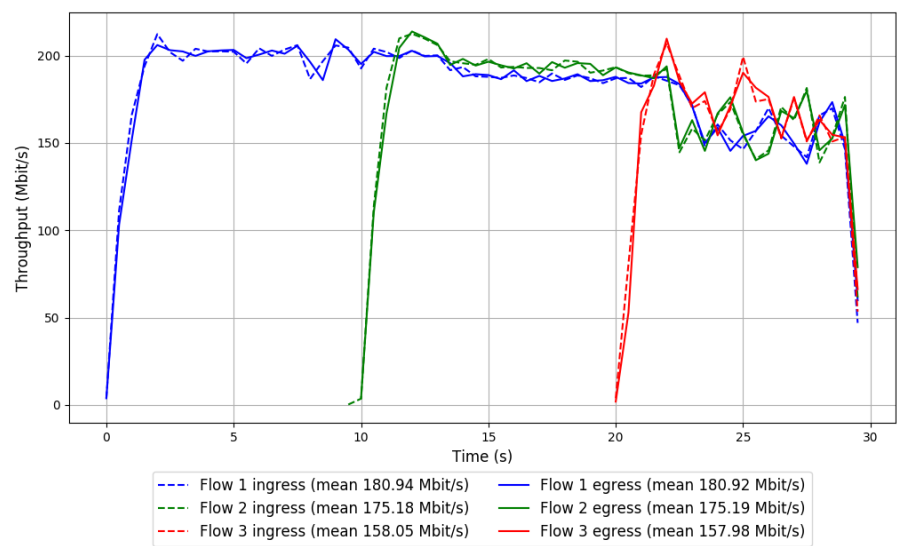
-- Flow 3:

Average throughput: 157.98 Mbit/s

95th percentile per-packet one-way delay: 56.381 ms

Loss rate: 0.03%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-03 03:06:02

End at: 2018-01-03 03:06:32

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.45 Mbit/s

95th percentile per-packet one-way delay: 53.031 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 185.51 Mbit/s

95th percentile per-packet one-way delay: 51.778 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.35 Mbit/s

95th percentile per-packet one-way delay: 53.207 ms

Loss rate: 0.00%

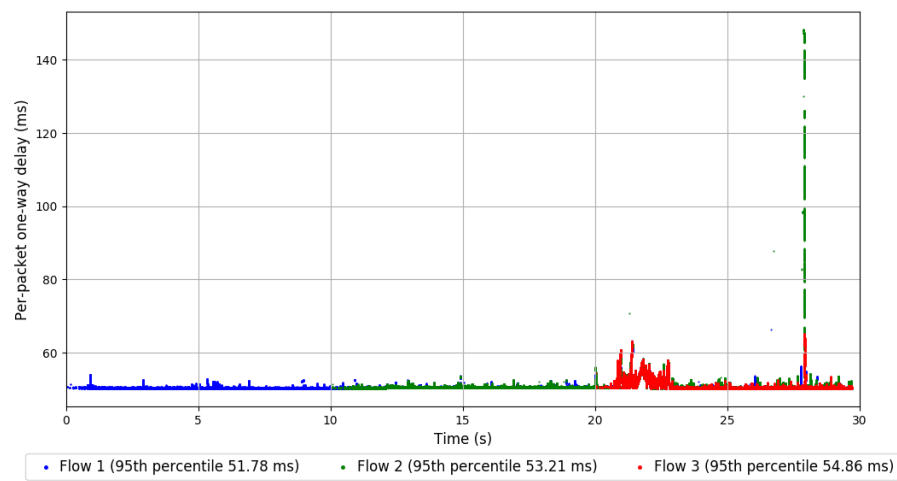
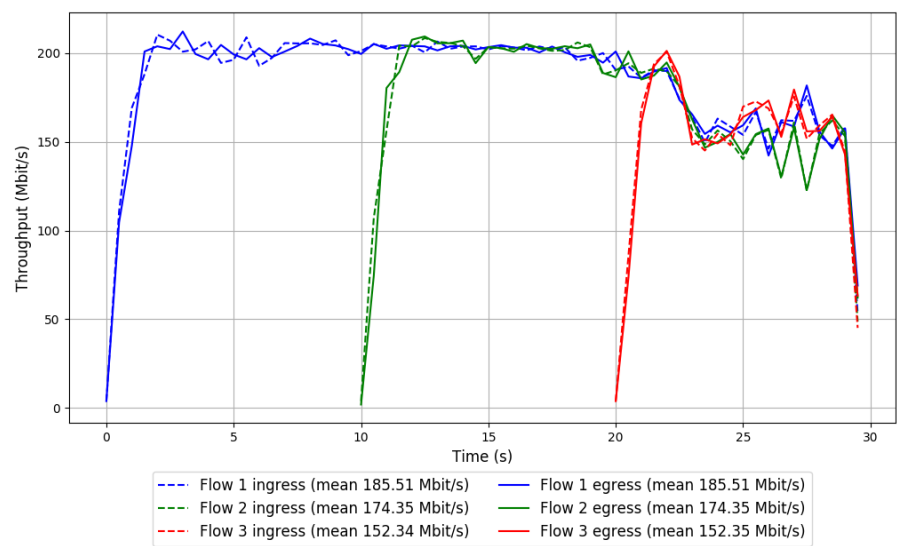
-- Flow 3:

Average throughput: 152.35 Mbit/s

95th percentile per-packet one-way delay: 54.863 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-03 03:19:36

End at: 2018-01-03 03:20:06

Below is generated by plot.py at 2018-01-03 06:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.02 Mbit/s

95th percentile per-packet one-way delay: 54.376 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 182.54 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.67 Mbit/s

95th percentile per-packet one-way delay: 59.093 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 119.96 Mbit/s

95th percentile per-packet one-way delay: 54.234 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

