

Pantheon Report

Generated at 2018-01-18 01:14:42 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

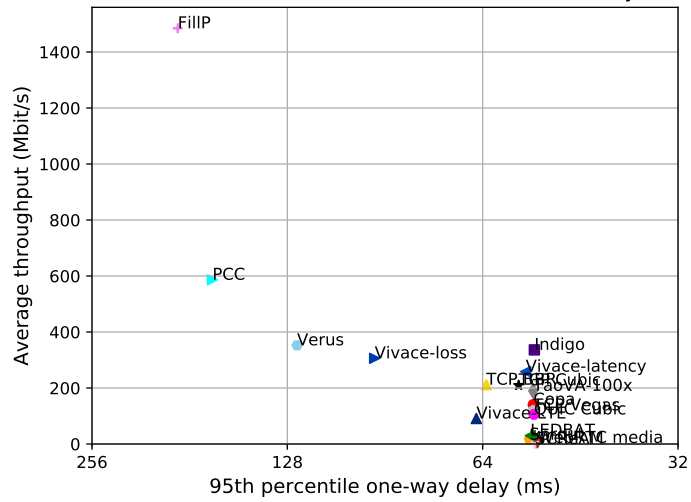
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

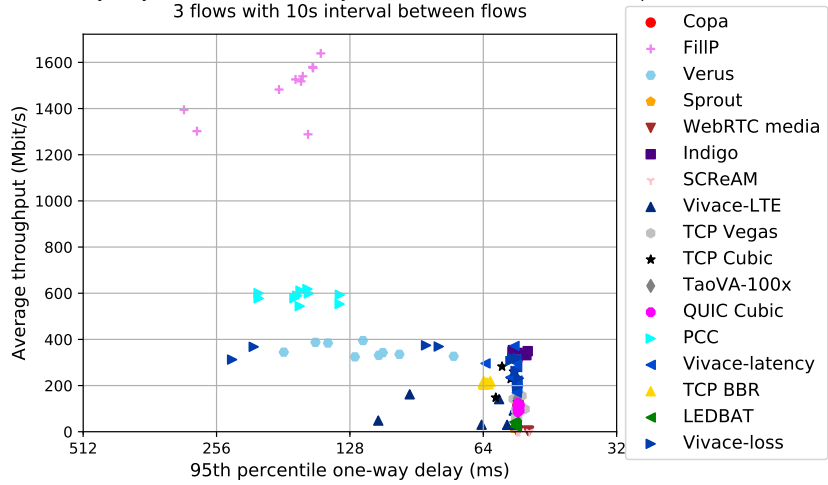
Git summary:

```
branch: master @ 54510ce29f849c716ac5c8199ca1604b6abdfbc3
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fixp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-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/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
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	105.19	105.70	109.71	62.56	63.76	63.46	0.03	0.01	0.02
TCP Cubic	5	84.90	151.03	71.72	701.99	56.17	54.85	0.00	0.00	0.06
LEDBAT	8	17.71	14.38	7.75	54.07	53.99	53.19	0.01	0.01	0.26
PCC	10	520.49	75.92	47.39	168.80	159.86	152.47	1.69	1.35	1.94
QUIC Cubic	10	56.65	51.26	46.05	52.04	52.02	51.77	0.00	0.00	0.00
SCReAM	10	0.21	0.21	0.22	51.63	52.52	51.54	0.00	0.00	0.00
WebRTC media	10	2.06	1.47	0.60	52.65	52.56	52.25	0.00	0.00	0.01
Sprout	10	7.79	7.72	7.38	54.22	54.20	53.46	0.10	0.01	0.27
TaoVA-100x	5	105.58	87.33	94.38	53.65	53.49	53.87	0.00	0.00	0.00
TCP Vegas	10	60.58	65.84	47.24	53.62	52.86	53.69	0.00	0.00	0.01
Verus	9	205.21	155.78	135.02	119.19	123.28	126.26	0.65	0.31	0.36
Copa	10	74.55	73.18	66.68	53.14	53.45	52.60	0.00	0.01	0.00
FillP	10	820.59	665.16	669.14	178.70	175.28	193.41	8.52	10.00	15.41
Indigo	9	178.80	168.06	141.93	53.02	53.25	53.58	0.01	0.00	0.00
Vivace-latency	10	119.65	154.63	109.27	53.53	69.38	61.80	0.02	0.03	0.00
Vivace-loss	10	178.34	143.50	98.38	77.52	101.81	54.03	0.27	0.56	0.00
Vivace-LTE	10	16.42	77.36	70.64	54.50	64.20	72.89	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-01-17 18:22:05

End at: 2018-01-17 18:22:35

Below is generated by plot.py at 2018-01-17 23:22:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.91 Mbit/s

95th percentile per-packet one-way delay: 61.818 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.49 Mbit/s

95th percentile per-packet one-way delay: 61.411 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 107.00 Mbit/s

95th percentile per-packet one-way delay: 62.949 ms

Loss rate: 0.00%

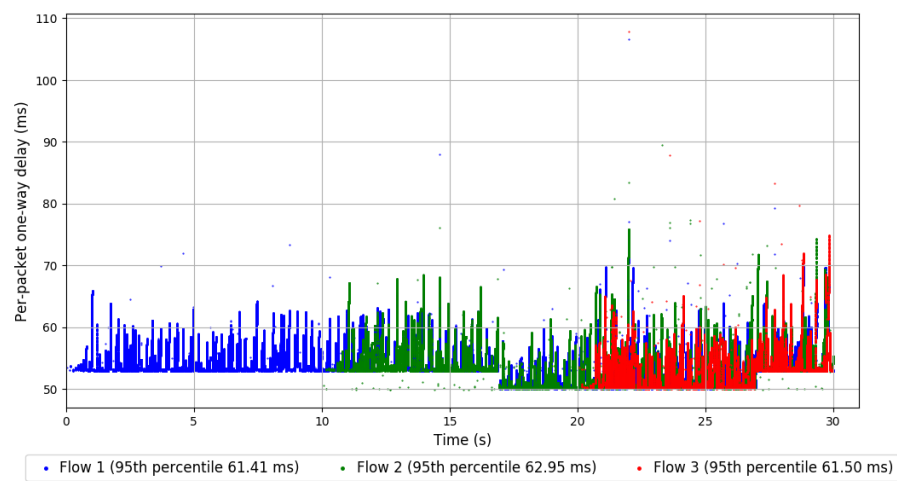
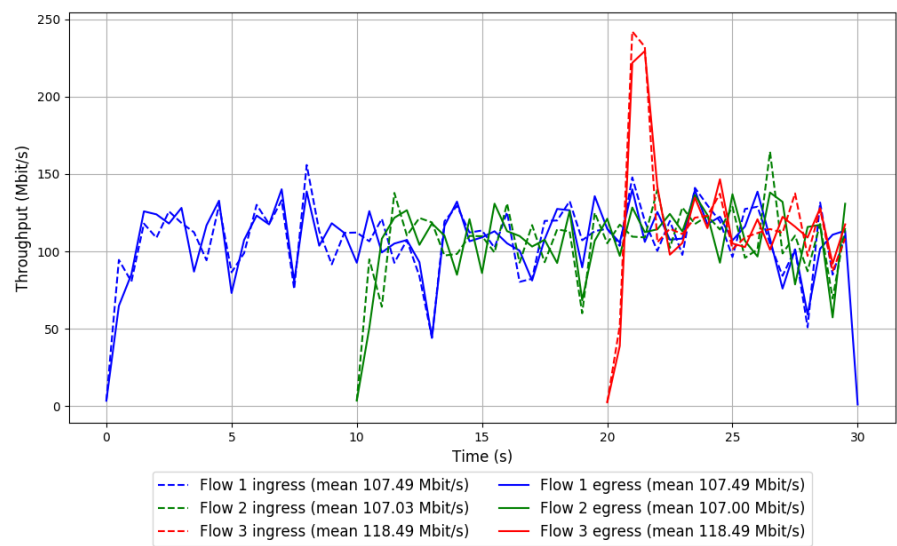
-- Flow 3:

Average throughput: 118.49 Mbit/s

95th percentile per-packet one-way delay: 61.503 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-17 18:39:02

End at: 2018-01-17 18:39:32

Below is generated by plot.py at 2018-01-17 23:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.98 Mbit/s

95th percentile per-packet one-way delay: 63.721 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.32 Mbit/s

95th percentile per-packet one-way delay: 63.028 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 65.288 ms

Loss rate: 0.00%

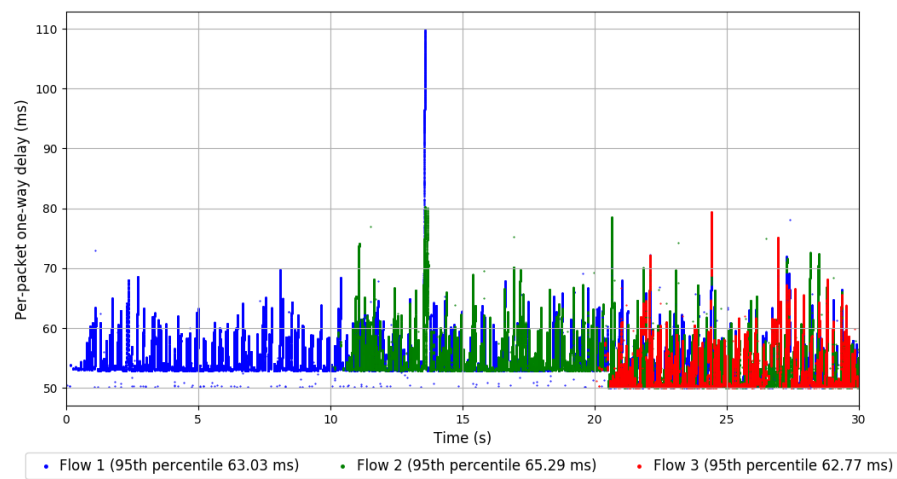
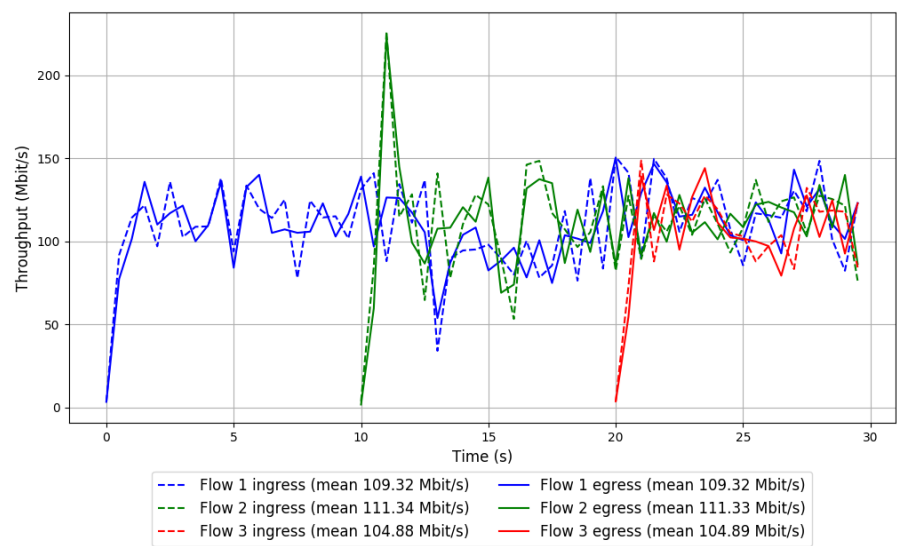
-- Flow 3:

Average throughput: 104.89 Mbit/s

95th percentile per-packet one-way delay: 62.768 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-17 18:55:42

End at: 2018-01-17 18:56:12

Below is generated by plot.py at 2018-01-17 23:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.10 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 106.38 Mbit/s

95th percentile per-packet one-way delay: 62.594 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 101.77 Mbit/s

95th percentile per-packet one-way delay: 64.955 ms

Loss rate: 0.00%

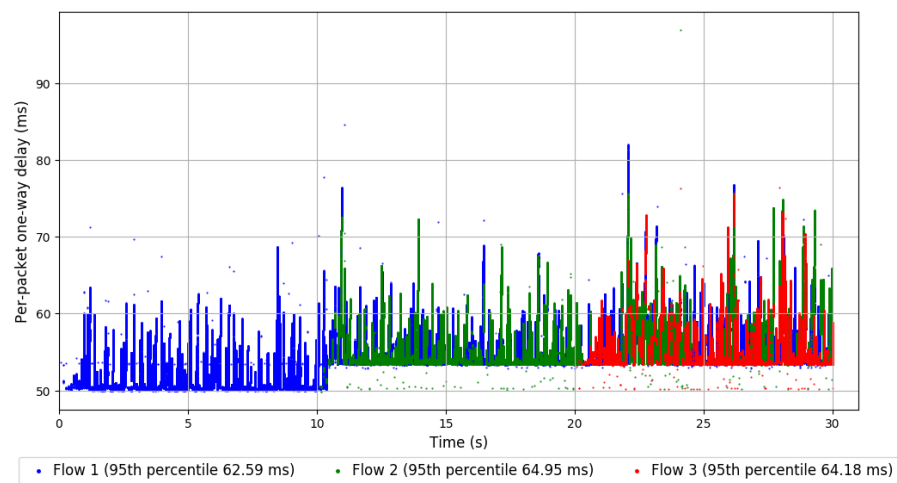
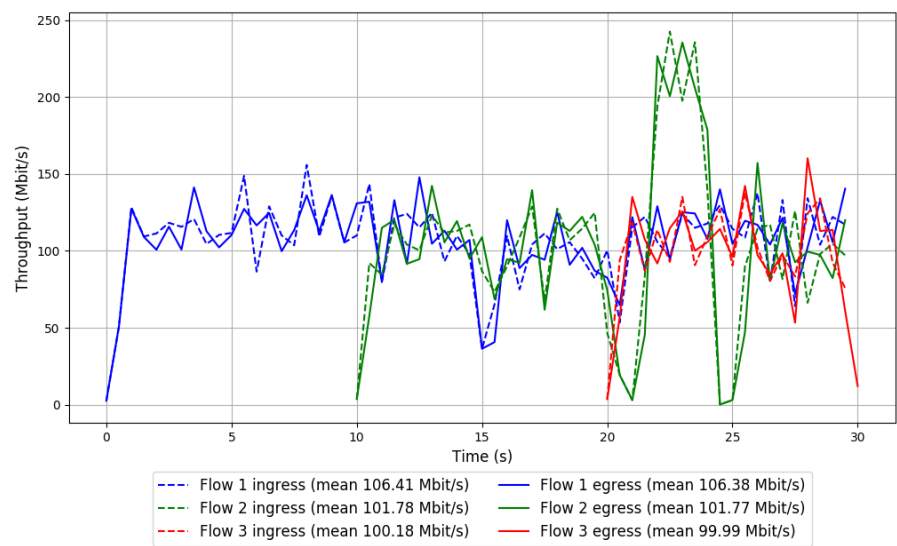
-- Flow 3:

Average throughput: 99.99 Mbit/s

95th percentile per-packet one-way delay: 64.177 ms

Loss rate: 0.14%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-17 19:12:13

End at: 2018-01-17 19:12:43

Below is generated by plot.py at 2018-01-17 23:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.40 Mbit/s

95th percentile per-packet one-way delay: 64.081 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.04 Mbit/s

95th percentile per-packet one-way delay: 62.899 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.13 Mbit/s

95th percentile per-packet one-way delay: 65.419 ms

Loss rate: 0.00%

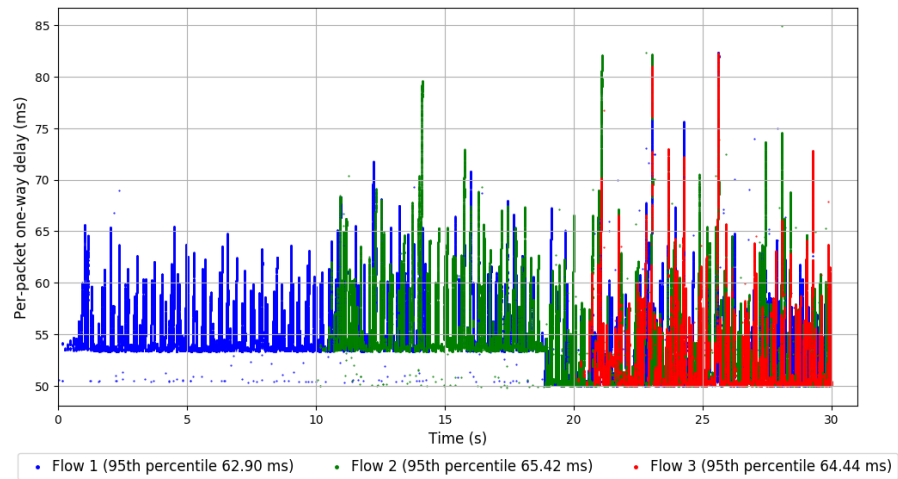
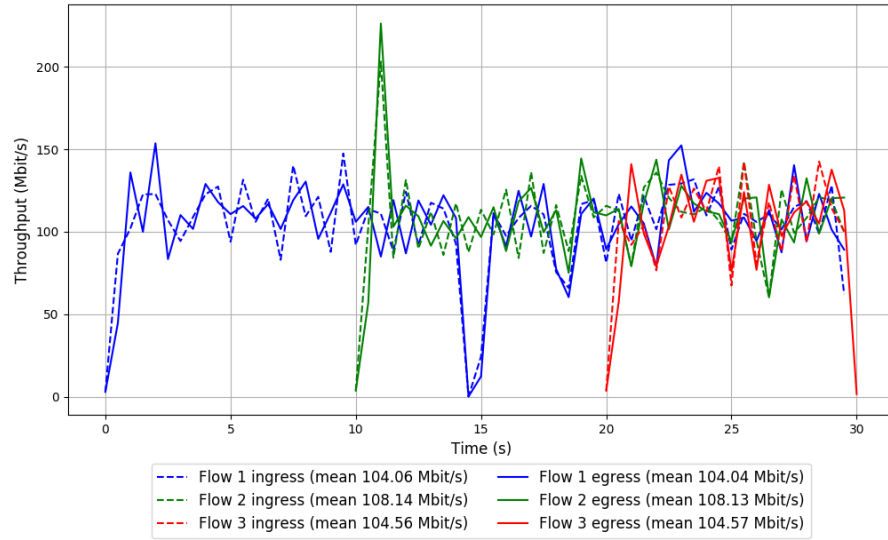
-- Flow 3:

Average throughput: 104.57 Mbit/s

95th percentile per-packet one-way delay: 64.437 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-17 19:29:16

End at: 2018-01-17 19:29:46

Below is generated by plot.py at 2018-01-17 23:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.21 Mbit/s

95th percentile per-packet one-way delay: 62.830 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 103.23 Mbit/s

95th percentile per-packet one-way delay: 63.142 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 113.33 Mbit/s

95th percentile per-packet one-way delay: 62.946 ms

Loss rate: 0.05%

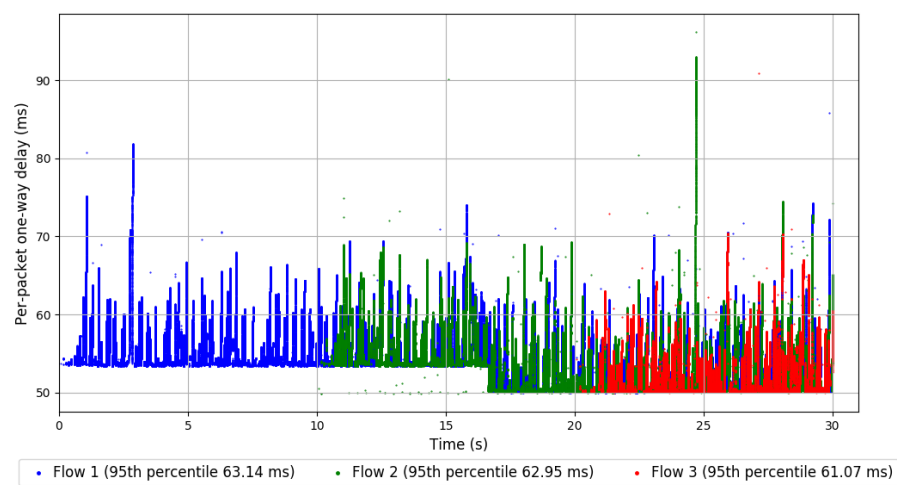
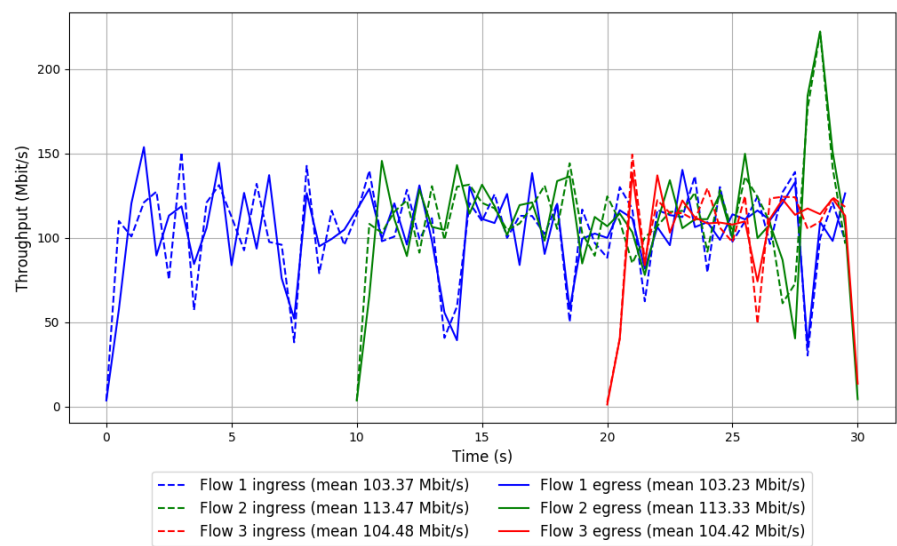
-- Flow 3:

Average throughput: 104.42 Mbit/s

95th percentile per-packet one-way delay: 61.069 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-17 19:46:15

End at: 2018-01-17 19:46:45

Below is generated by plot.py at 2018-01-17 23:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.38 Mbit/s

95th percentile per-packet one-way delay: 63.713 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.92 Mbit/s

95th percentile per-packet one-way delay: 62.715 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 104.68 Mbit/s

95th percentile per-packet one-way delay: 64.307 ms

Loss rate: 0.00%

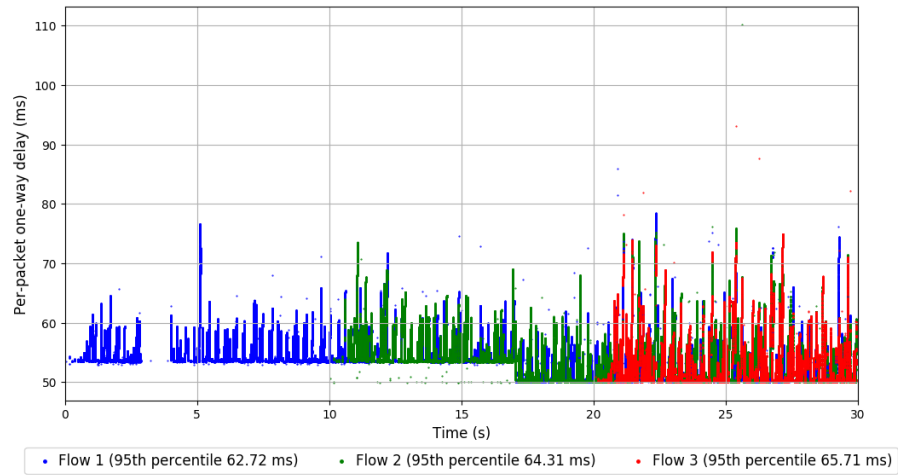
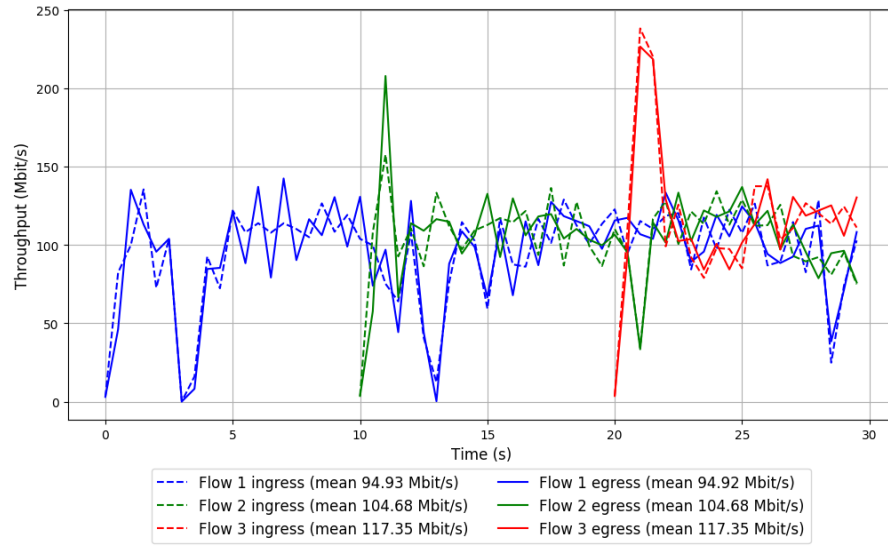
-- Flow 3:

Average throughput: 117.35 Mbit/s

95th percentile per-packet one-way delay: 65.711 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-17 20:03:01

End at: 2018-01-17 20:03:31

Below is generated by plot.py at 2018-01-17 23:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.20 Mbit/s

95th percentile per-packet one-way delay: 64.016 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 105.16 Mbit/s

95th percentile per-packet one-way delay: 63.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.18 Mbit/s

95th percentile per-packet one-way delay: 64.483 ms

Loss rate: 0.00%

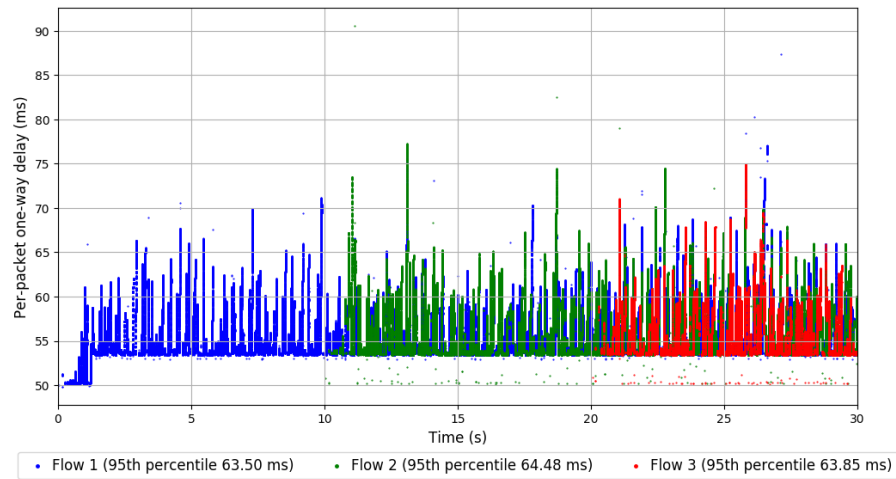
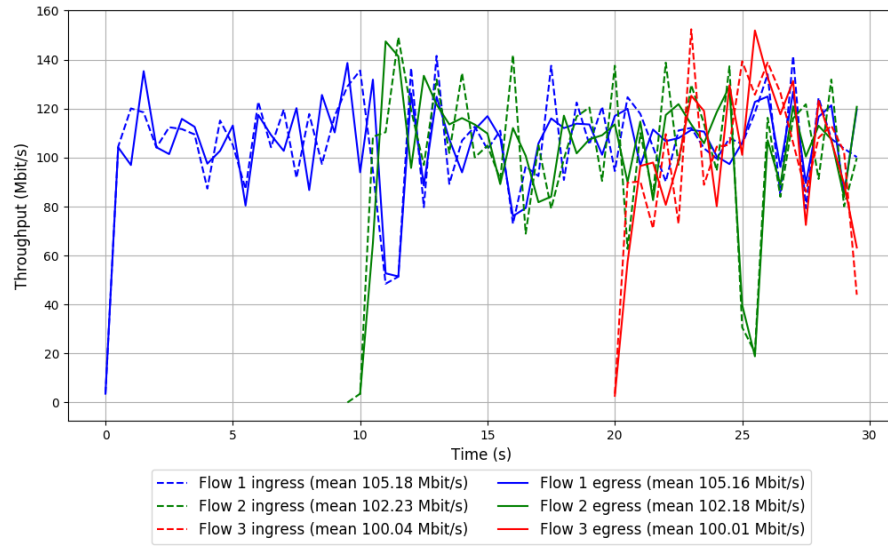
-- Flow 3:

Average throughput: 100.01 Mbit/s

95th percentile per-packet one-way delay: 63.846 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-17 20:19:50

End at: 2018-01-17 20:20:20

Below is generated by plot.py at 2018-01-17 23:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 61.661 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 110.18 Mbit/s

95th percentile per-packet one-way delay: 62.033 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 109.53 Mbit/s

95th percentile per-packet one-way delay: 61.467 ms

Loss rate: 0.00%

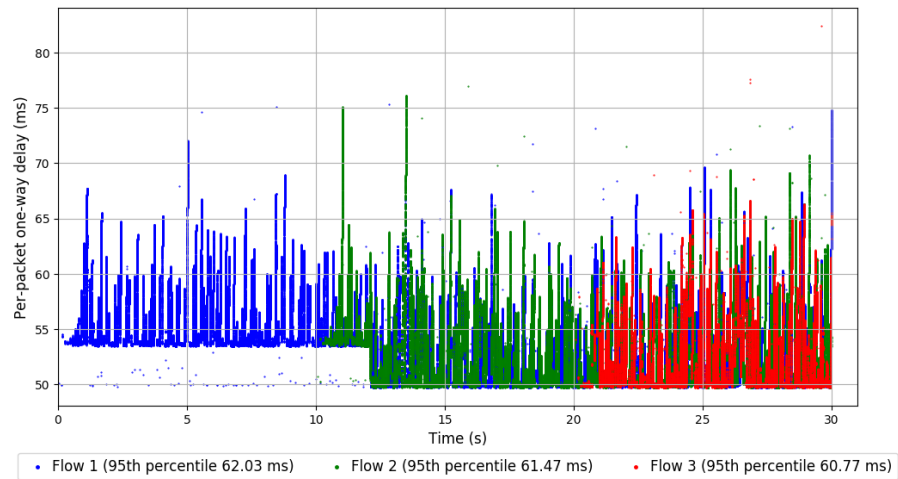
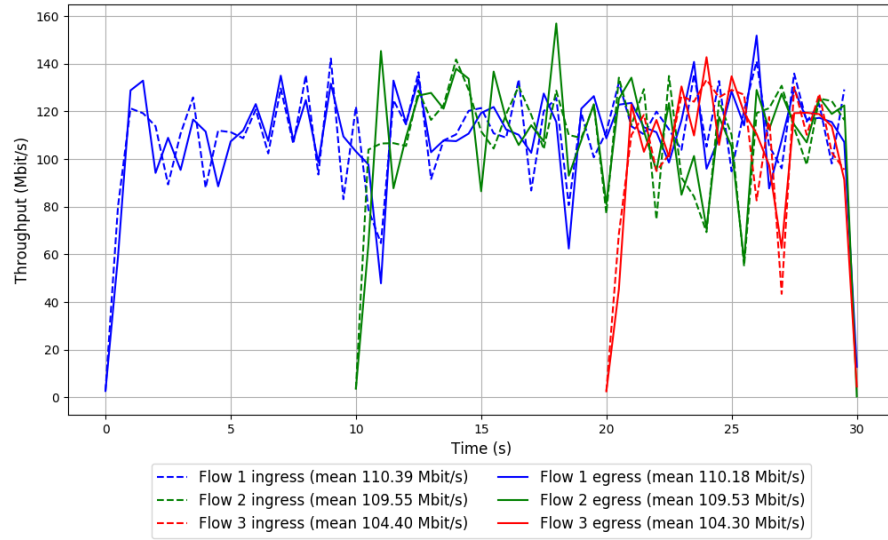
-- Flow 3:

Average throughput: 104.30 Mbit/s

95th percentile per-packet one-way delay: 60.766 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-17 20:36:53

End at: 2018-01-17 20:37:23

Below is generated by plot.py at 2018-01-17 23:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.67 Mbit/s

95th percentile per-packet one-way delay: 63.922 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 108.00 Mbit/s

95th percentile per-packet one-way delay: 62.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.17 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.01%

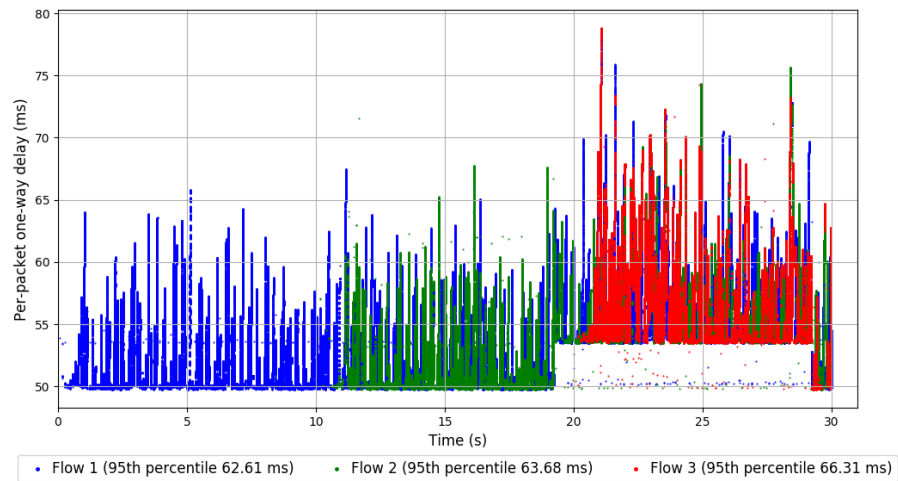
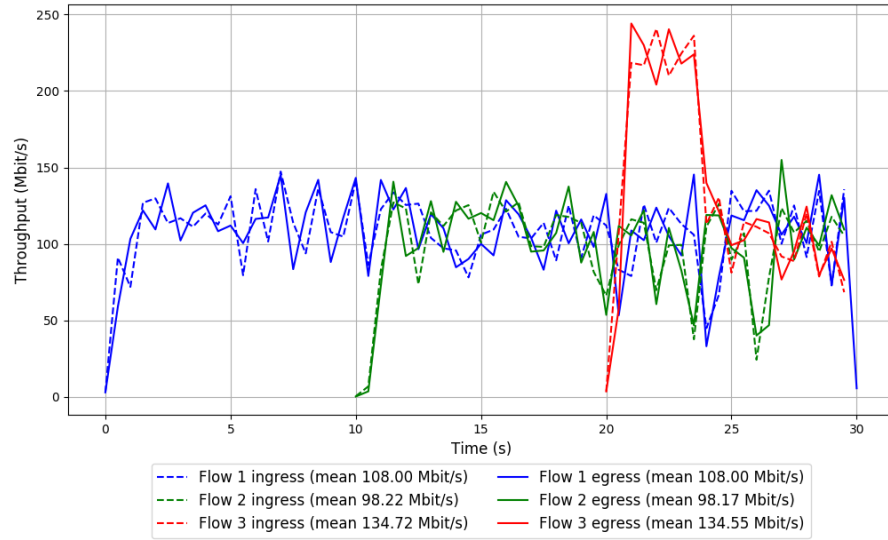
-- Flow 3:

Average throughput: 134.55 Mbit/s

95th percentile per-packet one-way delay: 66.314 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-17 20:53:12

End at: 2018-01-17 20:53:42

Below is generated by plot.py at 2018-01-17 23:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.04 Mbit/s

95th percentile per-packet one-way delay: 62.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.14 Mbit/s

95th percentile per-packet one-way delay: 61.716 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.88 Mbit/s

95th percentile per-packet one-way delay: 62.091 ms

Loss rate: 0.00%

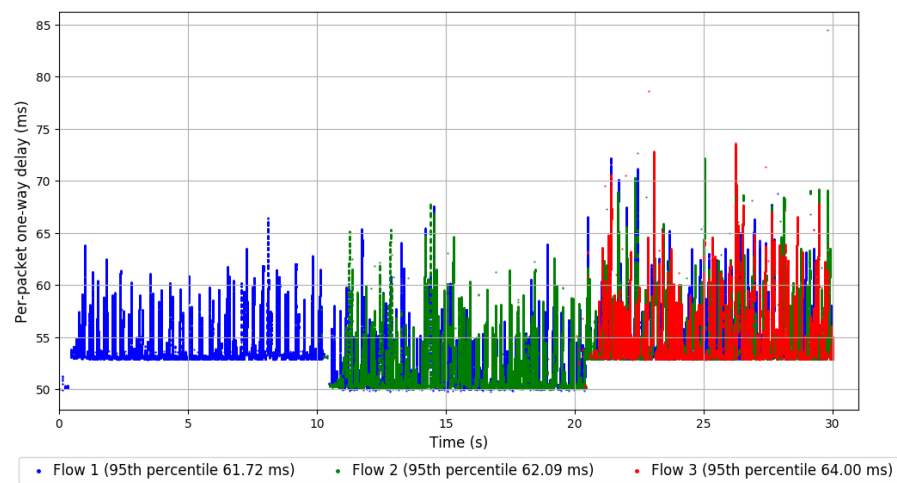
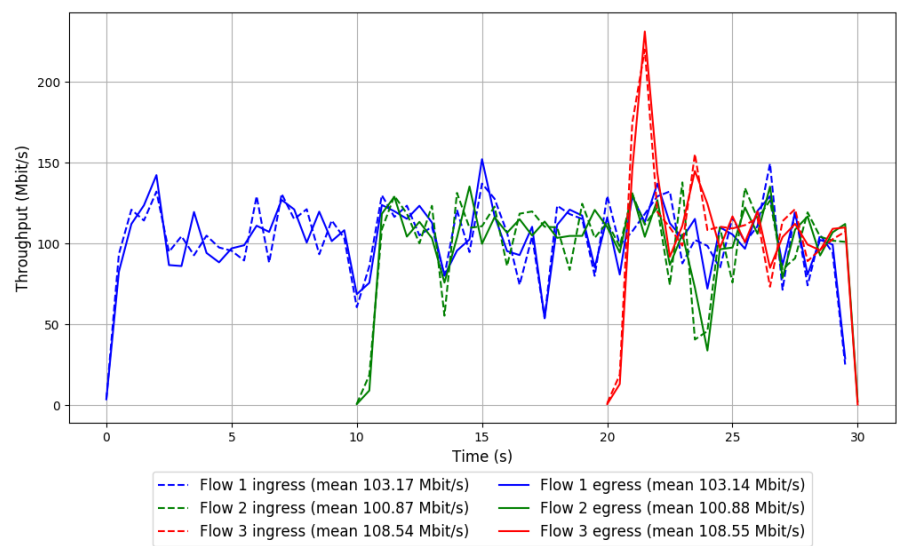
-- Flow 3:

Average throughput: 108.55 Mbit/s

95th percentile per-packet one-way delay: 64.002 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link

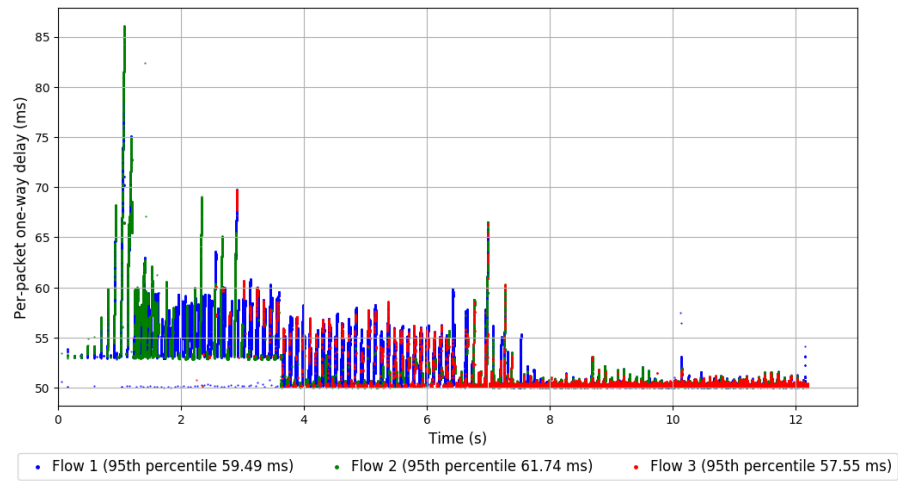
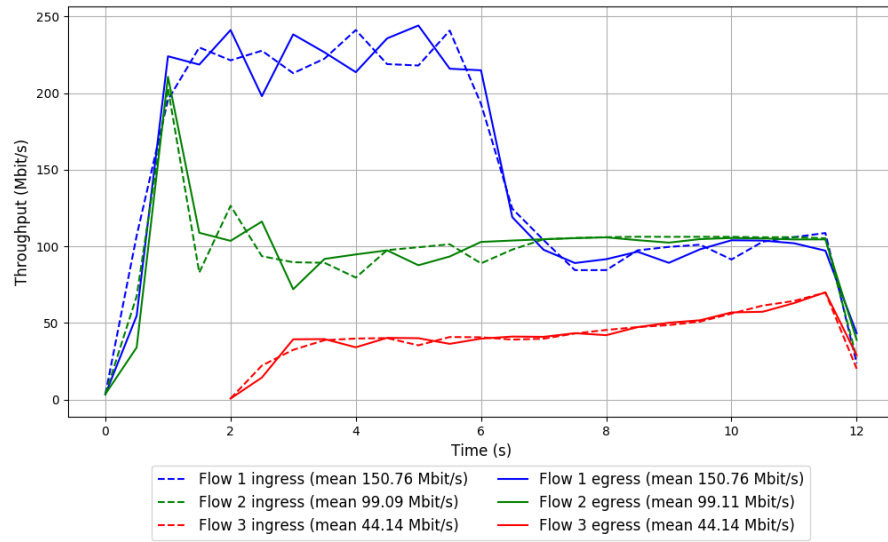


Run 1: Statistics of TCP Cubic

Start at: 2018-01-17 18:28:31

End at: 2018-01-17 18:29:01

Run 1: Report of TCP Cubic — Data Link

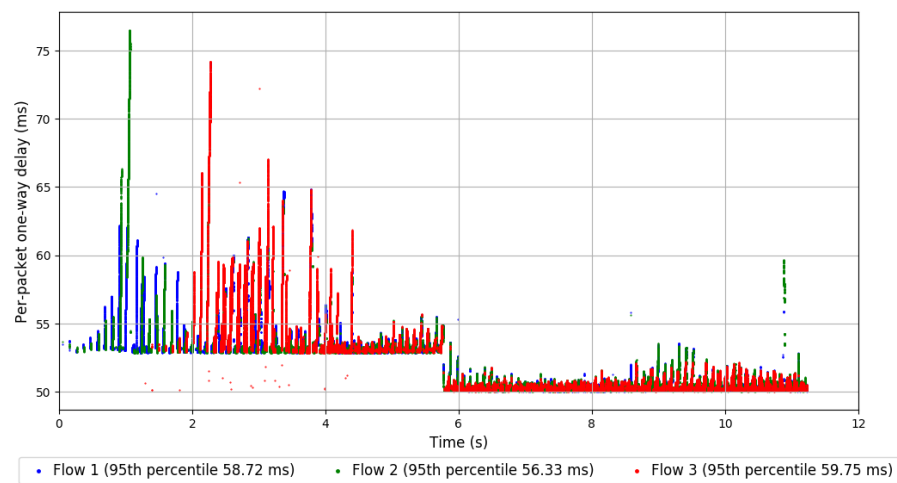
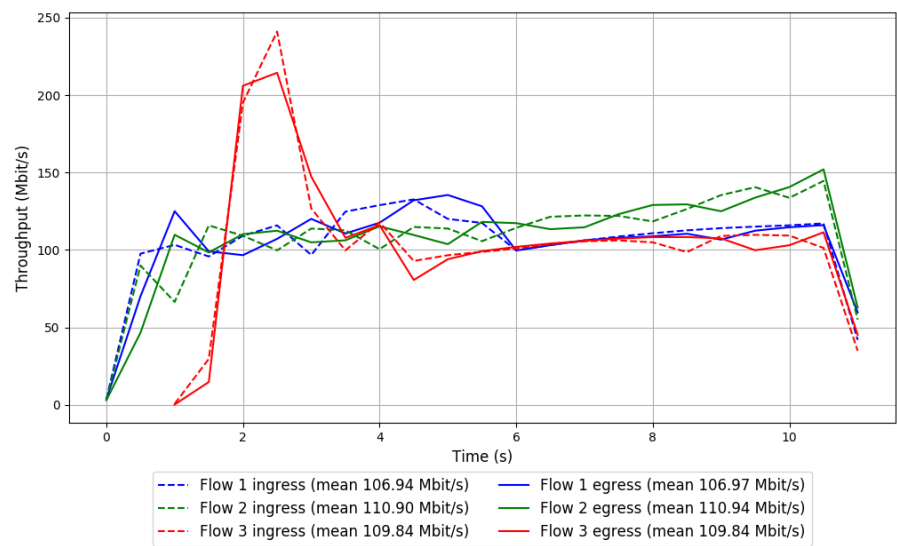


Run 2: Statistics of TCP Cubic

Start at: 2018-01-17 18:45:28

End at: 2018-01-17 18:45:58

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-17 19:01:57

End at: 2018-01-17 19:02:27

Below is generated by plot.py at 2018-01-17 23:25:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.80 Mbit/s

95th percentile per-packet one-way delay: 59.981 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.71 Mbit/s

95th percentile per-packet one-way delay: 3087.735 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.36 Mbit/s

95th percentile per-packet one-way delay: 59.638 ms

Loss rate: 0.00%

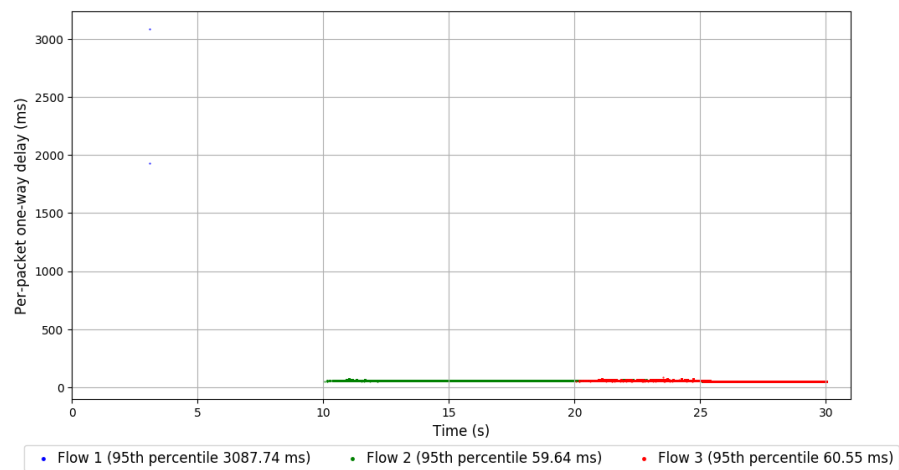
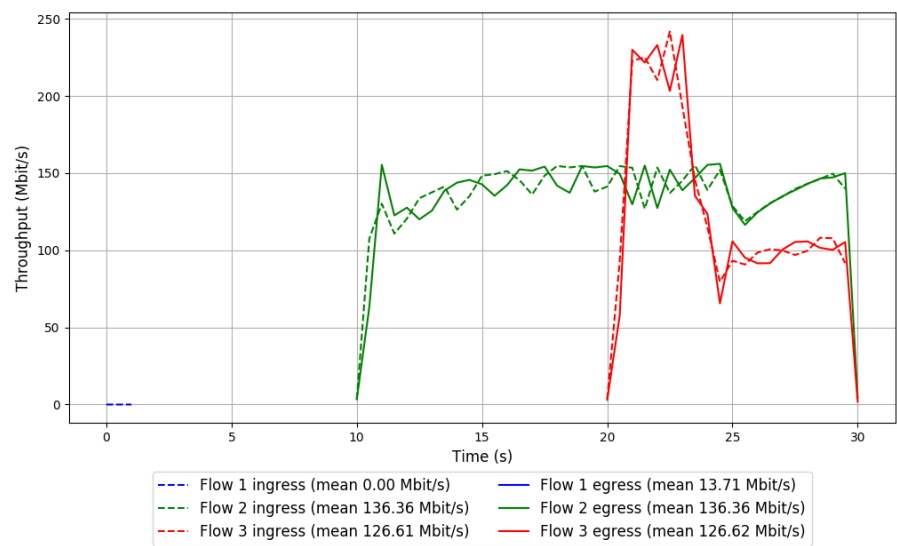
-- Flow 3:

Average throughput: 126.62 Mbit/s

95th percentile per-packet one-way delay: 60.551 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-17 19:18:38

End at: 2018-01-17 19:19:08

Below is generated by plot.py at 2018-01-17 23:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.65 Mbit/s

95th percentile per-packet one-way delay: 54.625 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.24 Mbit/s

95th percentile per-packet one-way delay: 55.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 54.052 ms

Loss rate: 0.00%

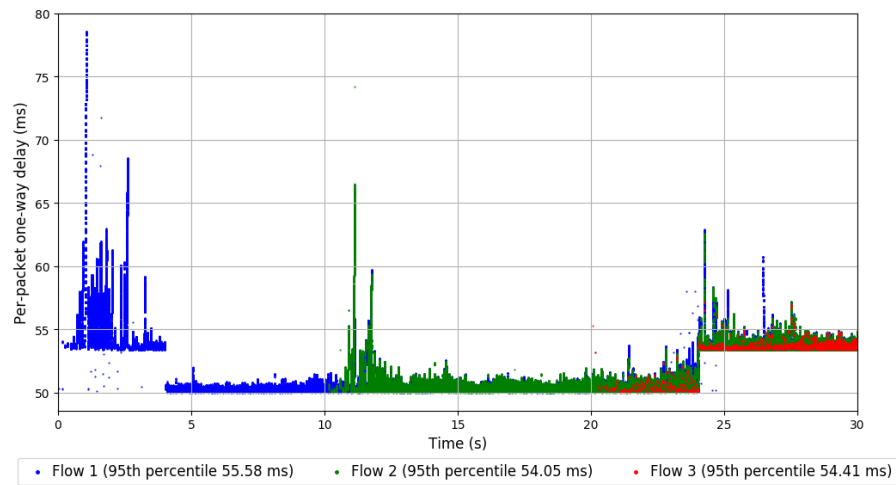
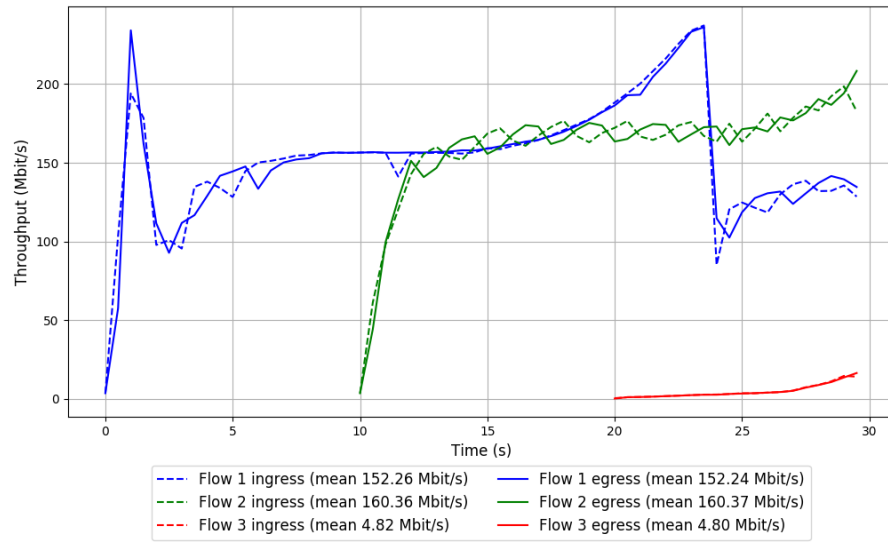
-- Flow 3:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 54.414 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-17 19:35:35

End at: 2018-01-17 19:36:05

Run 5: Report of TCP Cubic — Data Link

Figure is missing

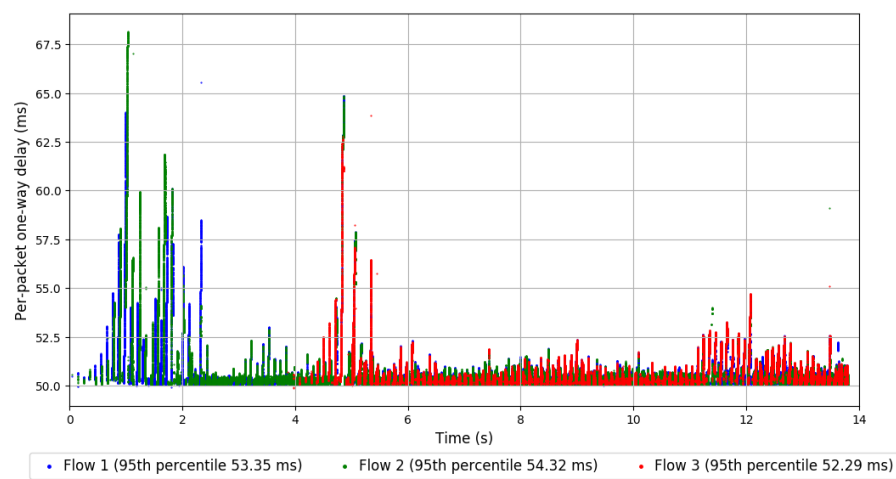
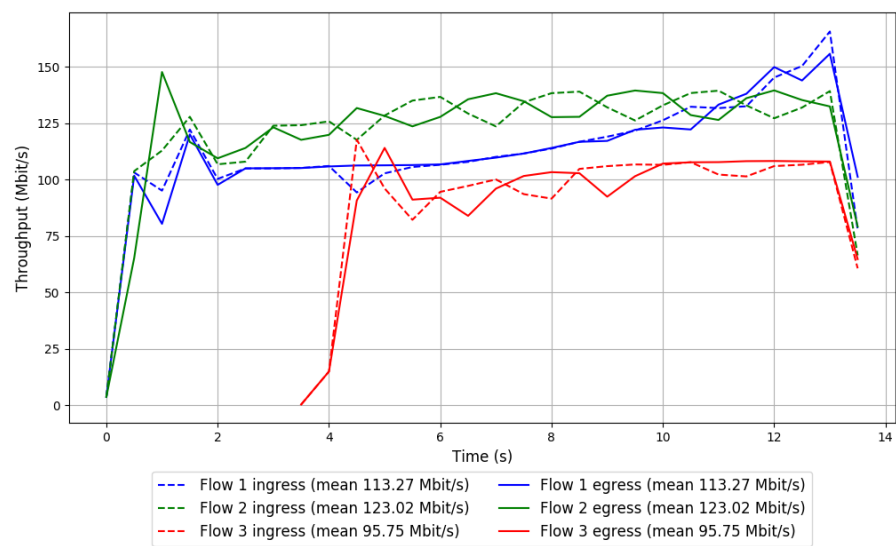
Figure is missing

Run 6: Statistics of TCP Cubic

Start at: 2018-01-17 19:52:28

End at: 2018-01-17 19:52:58

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-17 20:09:10

End at: 2018-01-17 20:09:40

Below is generated by plot.py at 2018-01-17 23:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.98 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 253.874 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.50 Mbit/s

95th percentile per-packet one-way delay: 53.690 ms

Loss rate: 0.00%

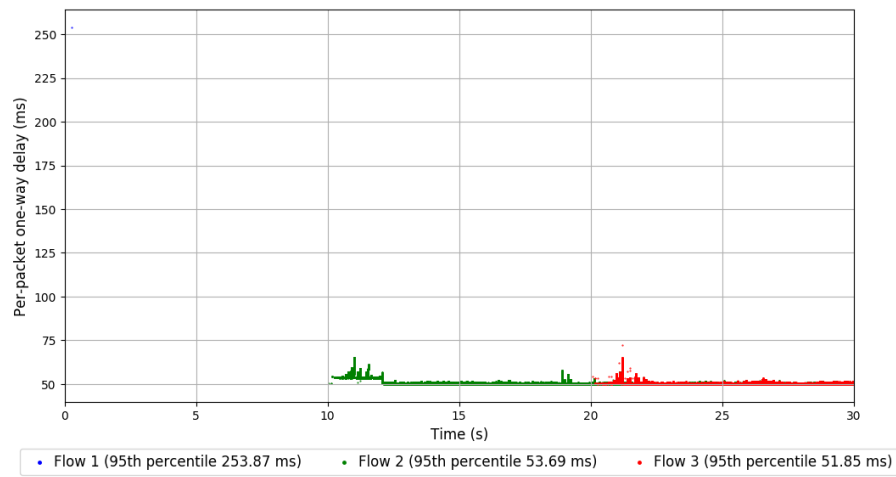
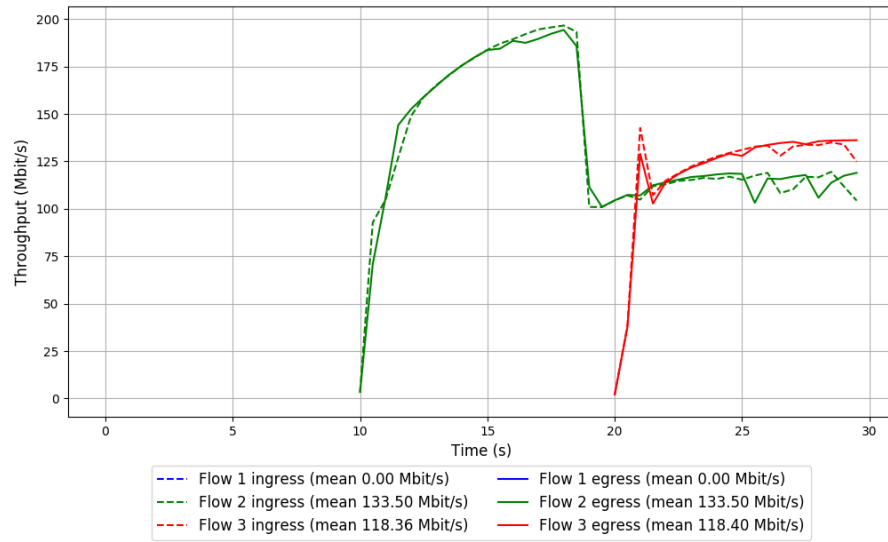
-- Flow 3:

Average throughput: 118.40 Mbit/s

95th percentile per-packet one-way delay: 51.854 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-17 20:26:17

End at: 2018-01-17 20:26:47

Below is generated by plot.py at 2018-01-17 23:28:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.51 Mbit/s

95th percentile per-packet one-way delay: 55.492 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 125.17 Mbit/s

95th percentile per-packet one-way delay: 56.056 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.61 Mbit/s

95th percentile per-packet one-way delay: 54.819 ms

Loss rate: 0.00%

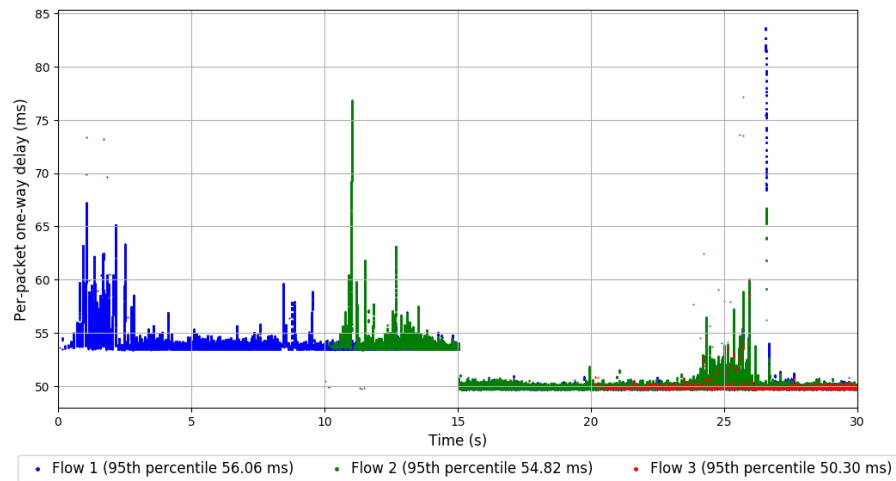
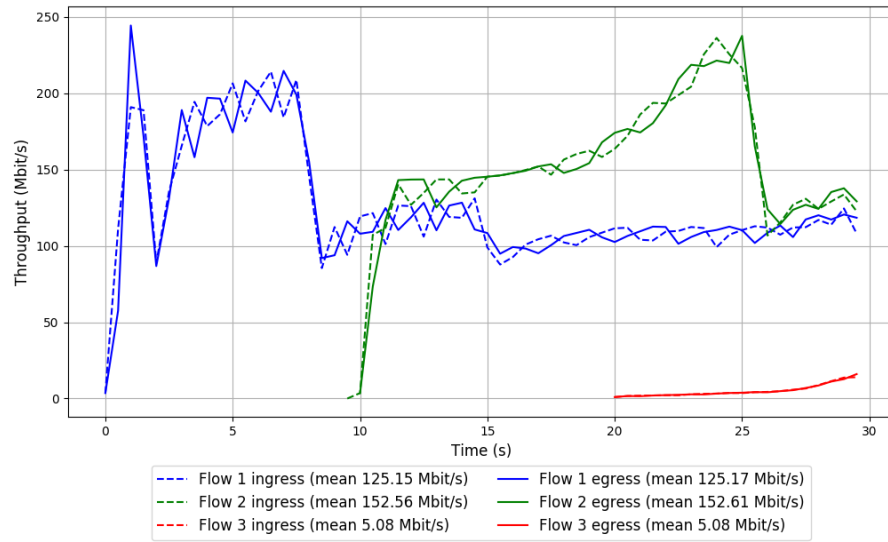
-- Flow 3:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 50.305 ms

Loss rate: 0.07%

Run 8: Report of TCP Cubic — Data Link

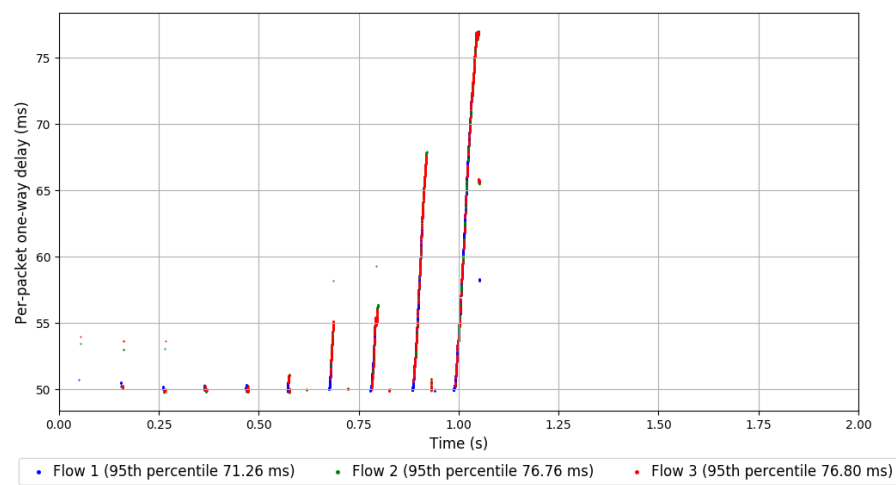
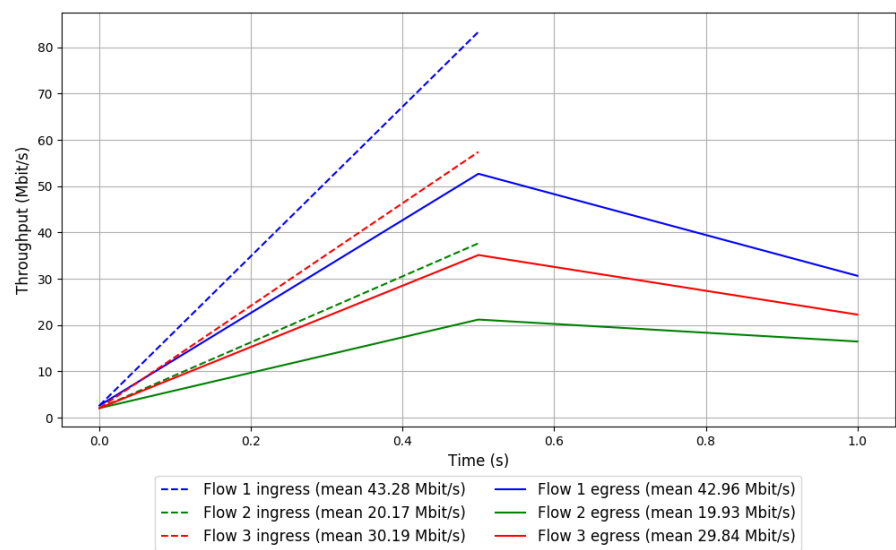


Run 9: Statistics of TCP Cubic

Start at: 2018-01-17 20:43:07

End at: 2018-01-17 20:43:37

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-17 20:59:21

End at: 2018-01-17 20:59:51

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.45 Mbit/s

95th percentile per-packet one-way delay: 58.048 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 133.38 Mbit/s

95th percentile per-packet one-way delay: 56.723 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.32 Mbit/s

95th percentile per-packet one-way delay: 58.632 ms

Loss rate: 0.00%

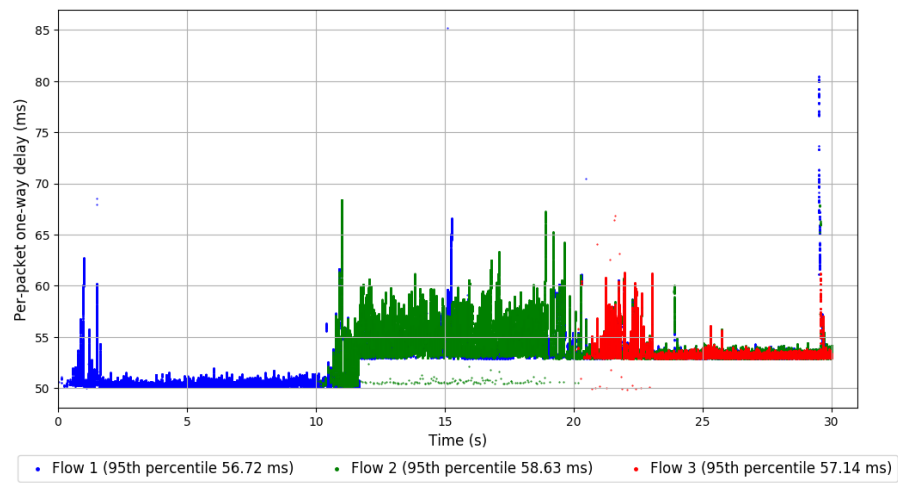
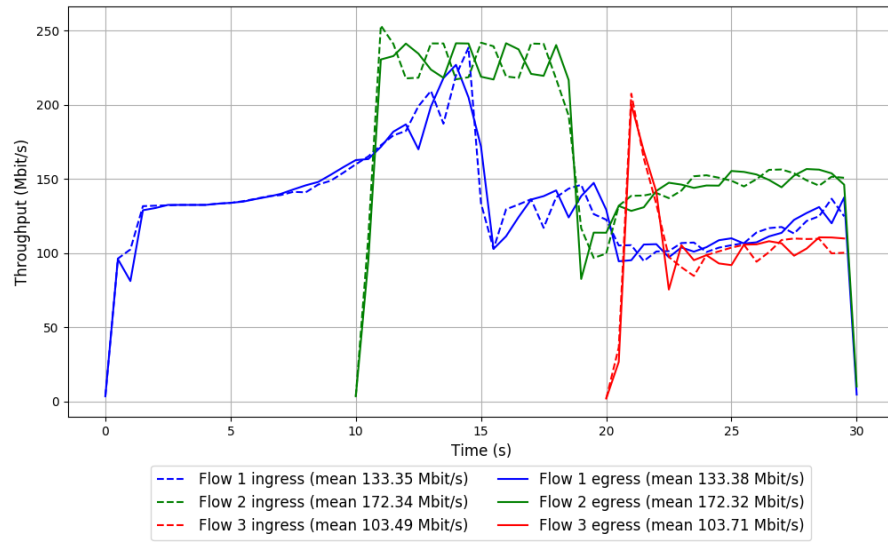
-- Flow 3:

Average throughput: 103.71 Mbit/s

95th percentile per-packet one-way delay: 57.144 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

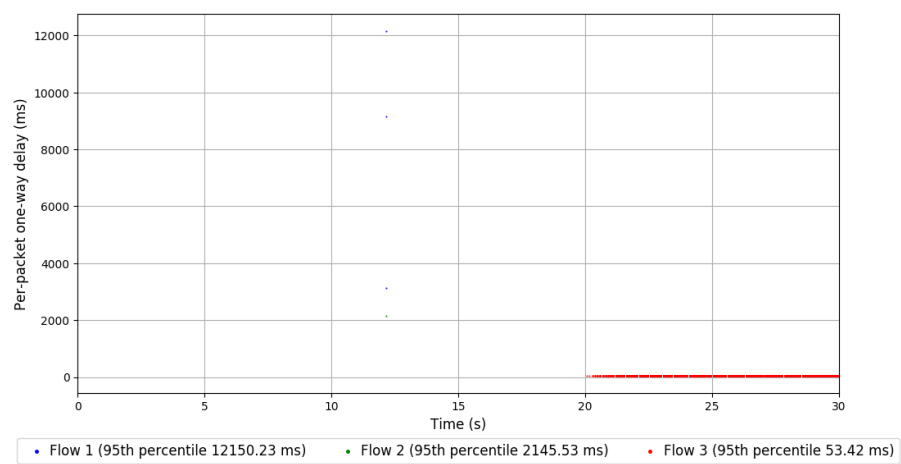
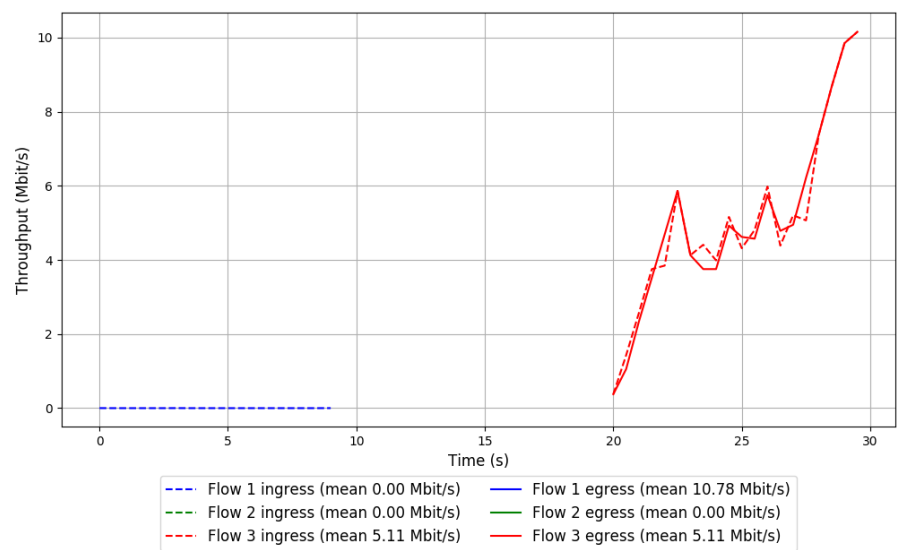


Run 1: Statistics of LEDBAT

Start at: 2018-01-17 18:19:18

End at: 2018-01-17 18:19:48

Run 1: Report of LEDBAT — Data Link

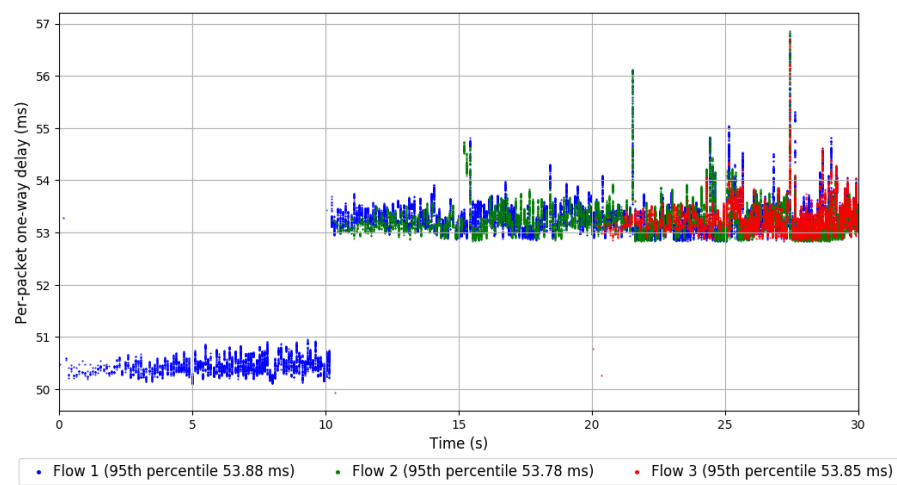
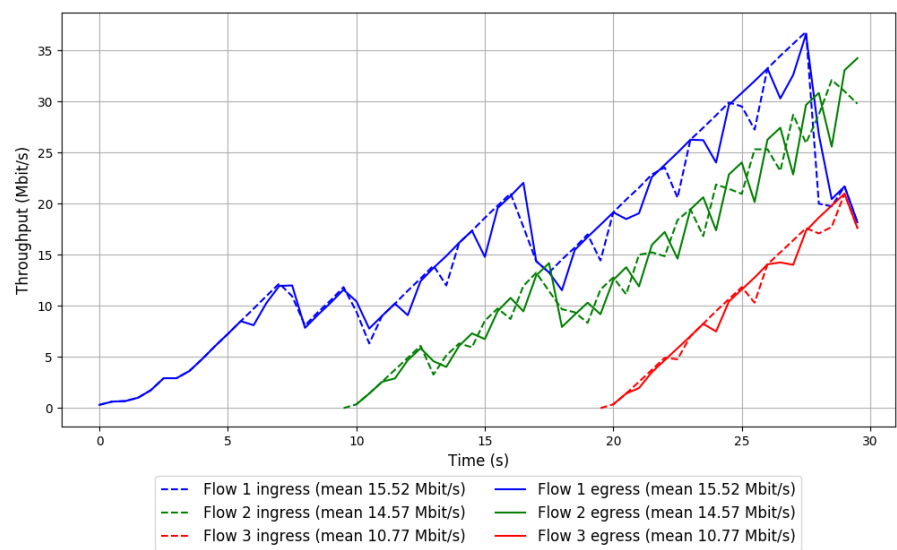


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-17 18:36:12
End at: 2018-01-17 18:36:42

# Below is generated by plot.py at 2018-01-17 23:28:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 53.879 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 53.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.77 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-17 18:52:54

End at: 2018-01-17 18:53:24

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.34 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 19.38 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 53.923 ms

Loss rate: 0.00%

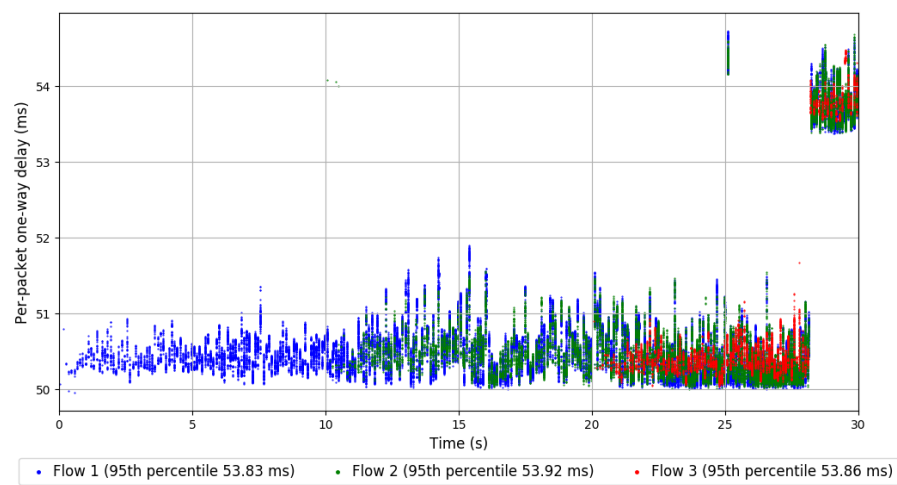
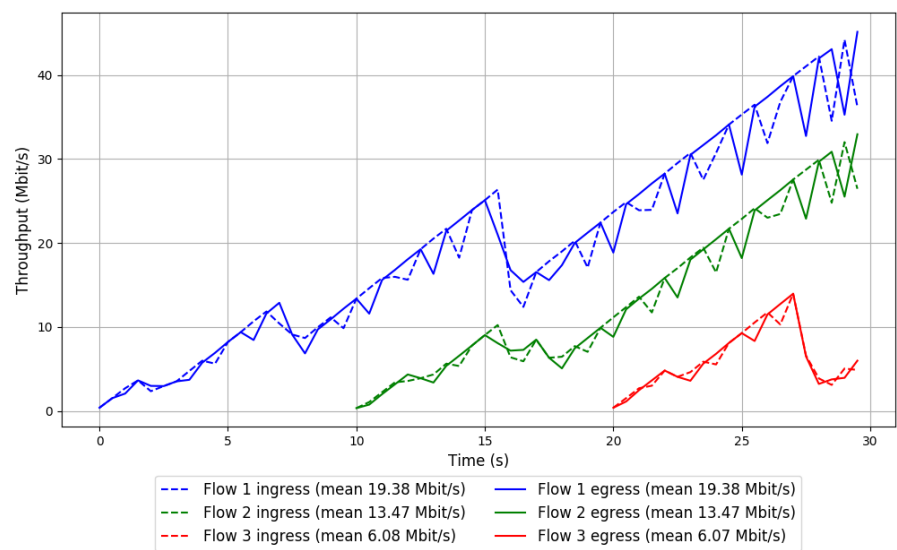
-- Flow 3:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-17 19:09:27

End at: 2018-01-17 19:09:57

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.32 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.94 Mbit/s

95th percentile per-packet one-way delay: 54.238 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 53.821 ms

Loss rate: 0.00%

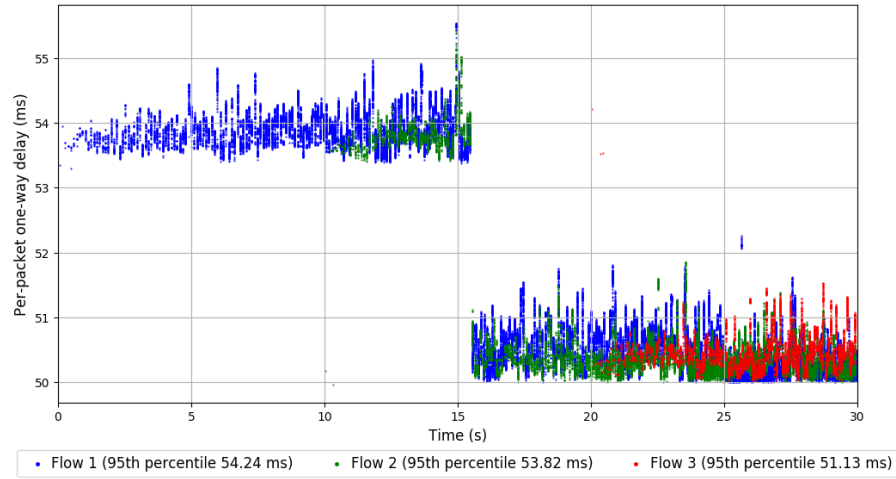
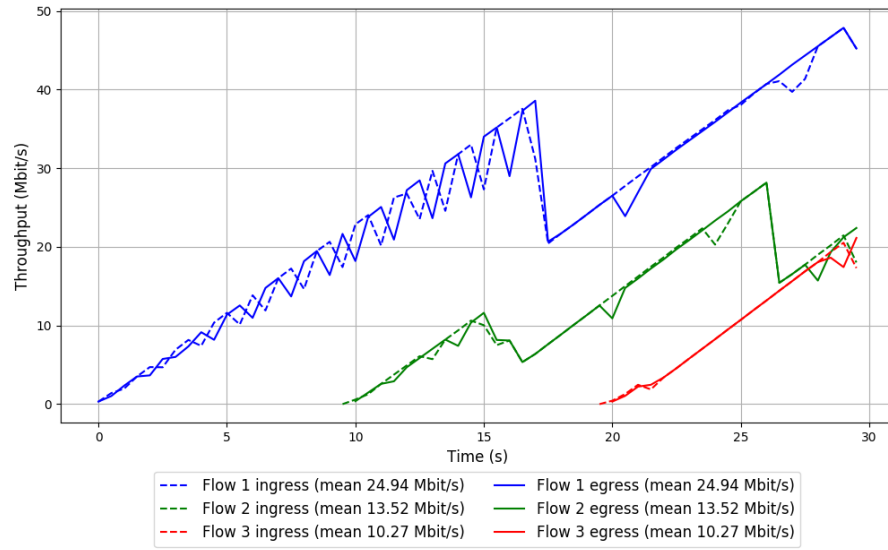
-- Flow 3:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 51.129 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-17 19:26:25

End at: 2018-01-17 19:26:55

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 53.994 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.71 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 53.985 ms

Loss rate: 0.00%

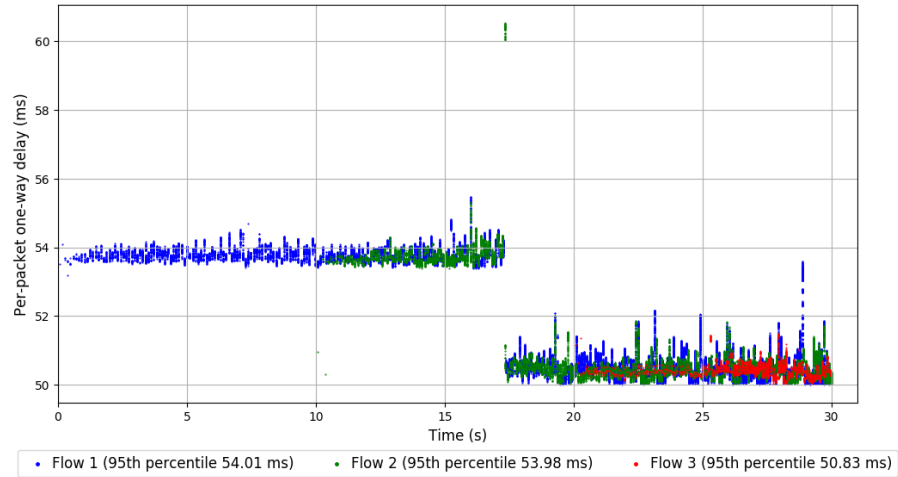
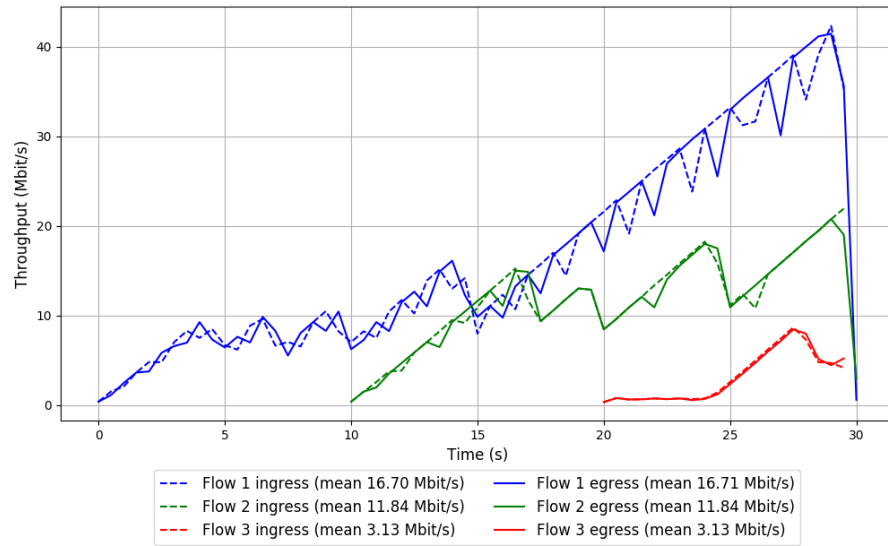
-- Flow 3:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 50.830 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-17 19:43:25

End at: 2018-01-17 19:43:55

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.55 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 54.104 ms

Loss rate: 0.00%

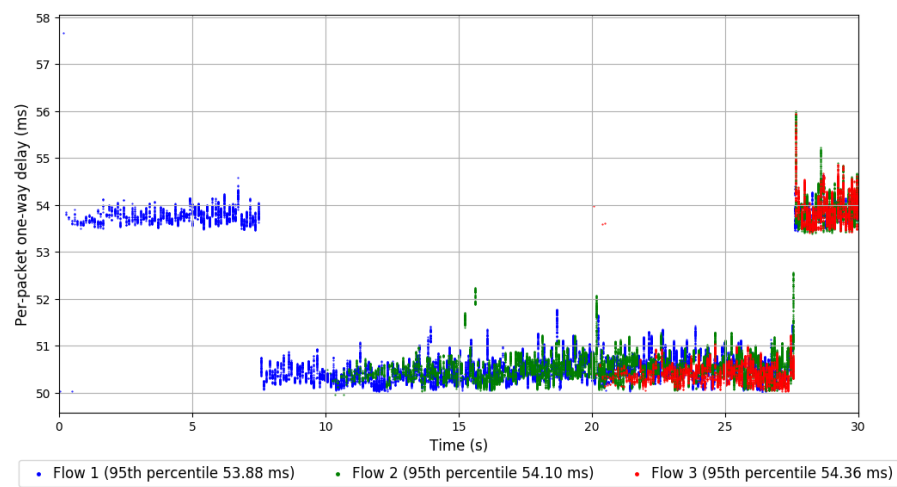
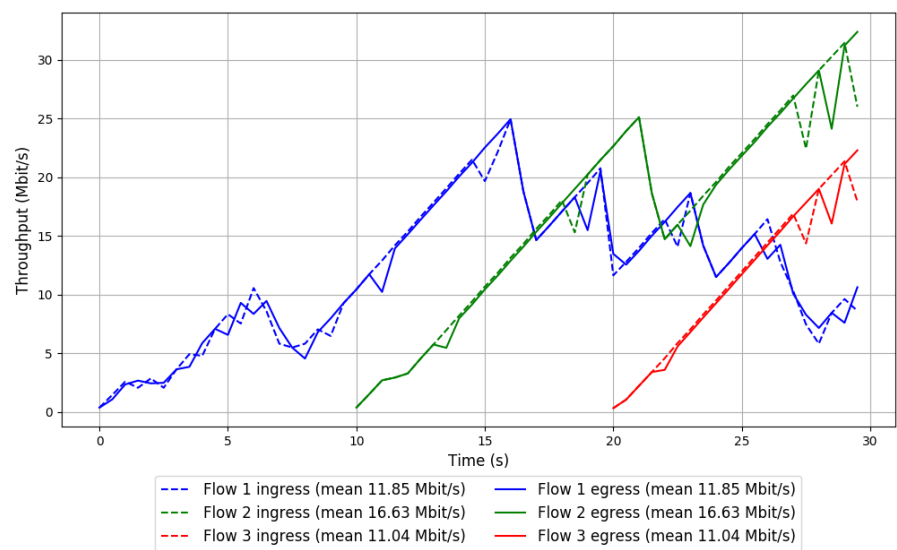
-- Flow 3:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 54.358 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-17 20:00:08

End at: 2018-01-17 20:00:38

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.39 Mbit/s

95th percentile per-packet one-way delay: 54.483 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 54.555 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 54.349 ms

Loss rate: 0.00%

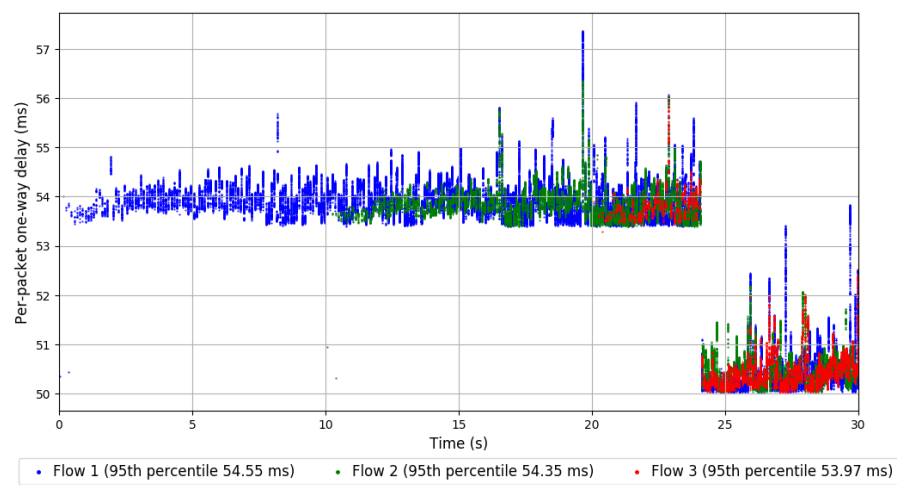
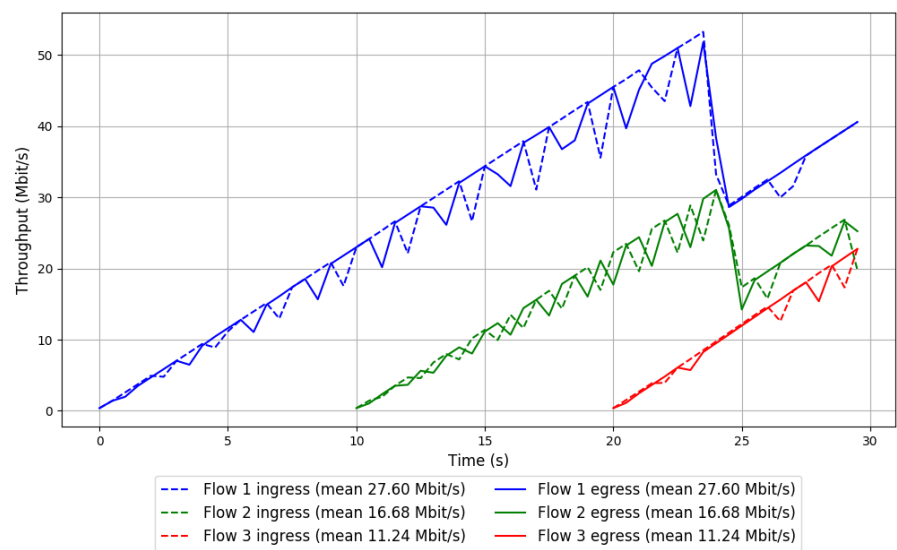
-- Flow 3:

Average throughput: 11.24 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

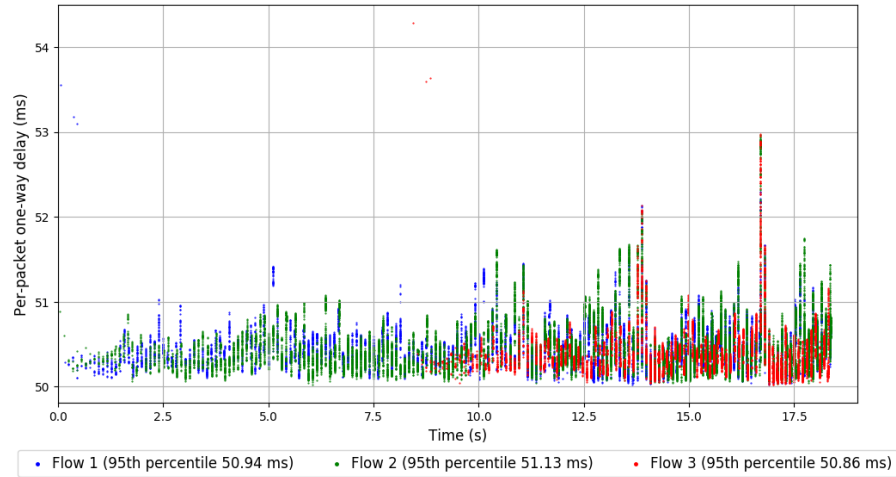
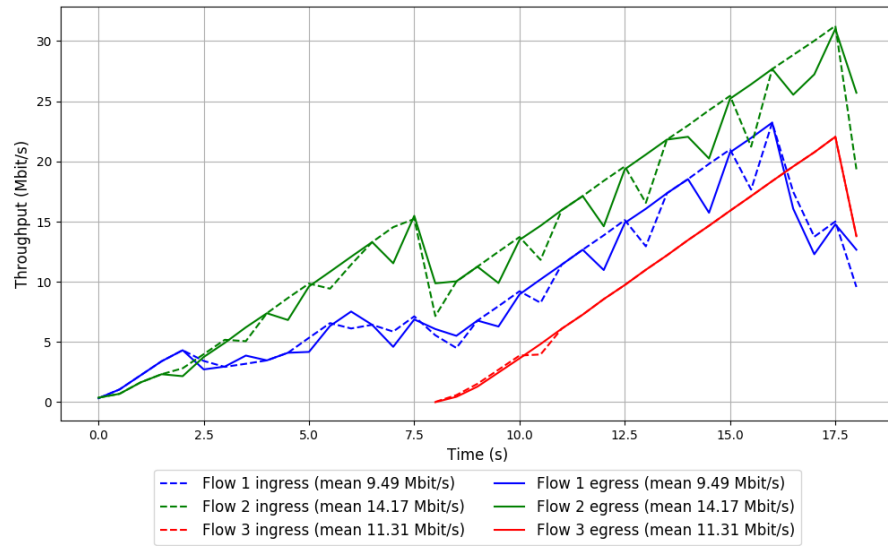


Run 8: Statistics of LEDBAT

Start at: 2018-01-17 20:17:01

End at: 2018-01-17 20:17:31

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-17 20:34:05

End at: 2018-01-17 20:34:35

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 54.300 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 54.223 ms

Loss rate: 0.01%

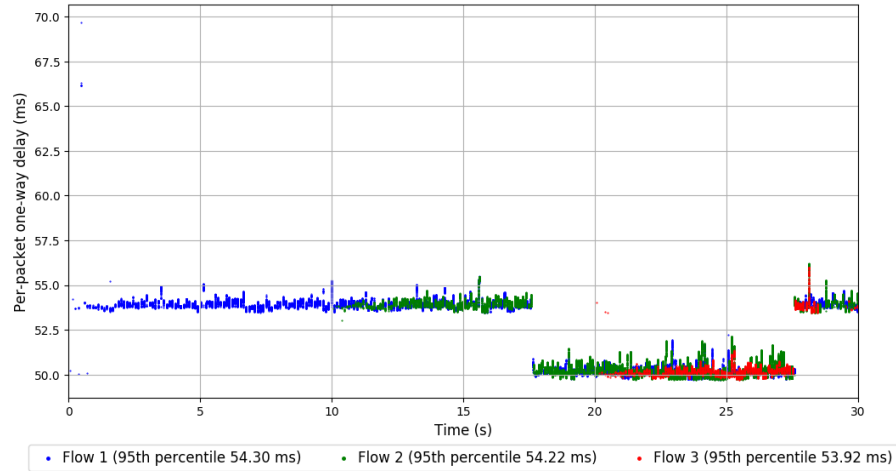
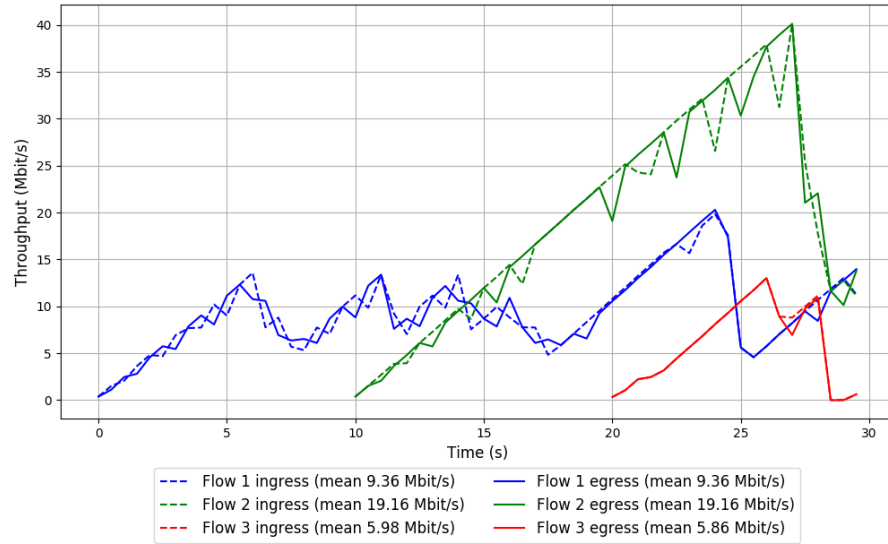
-- Flow 3:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 1.96%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-17 20:50:22

End at: 2018-01-17 20:50:52

Below is generated by plot.py at 2018-01-17 23:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 53.860 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.03%

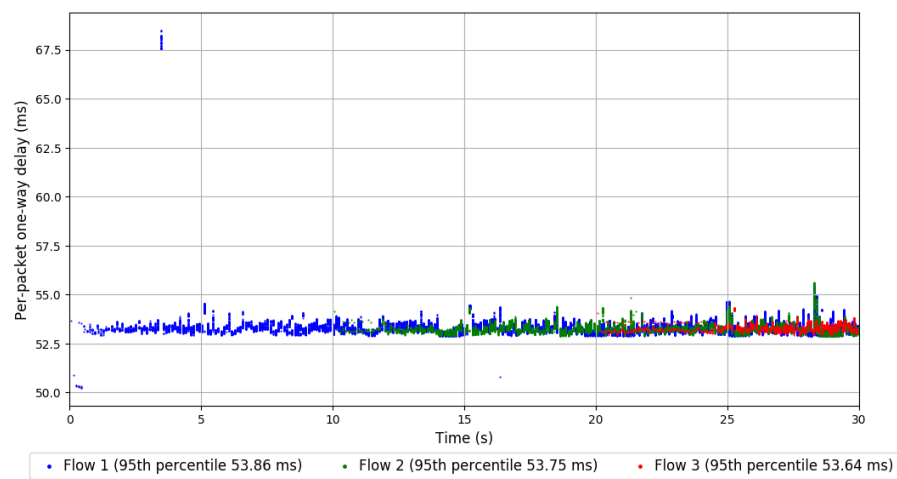
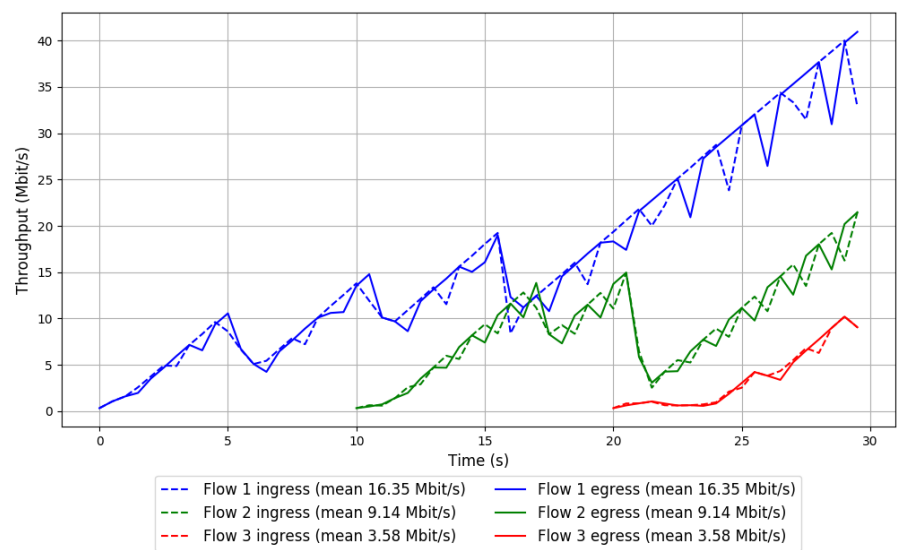
-- Flow 3:

Average throughput: 3.58 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

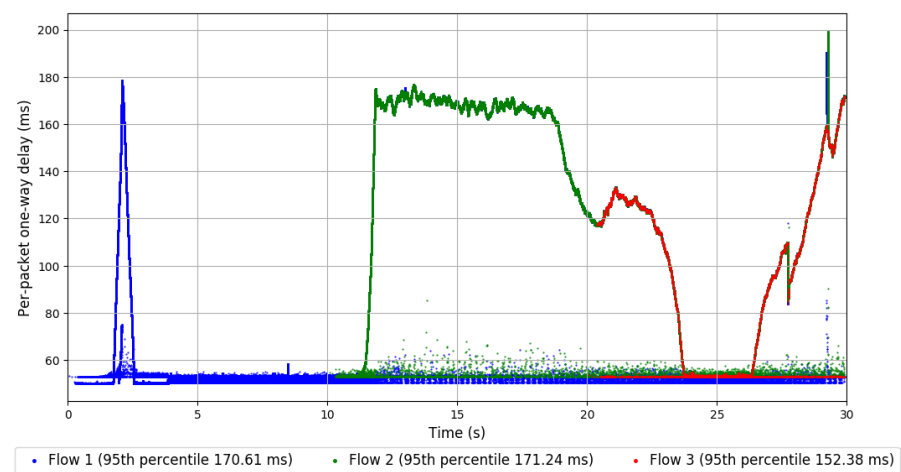
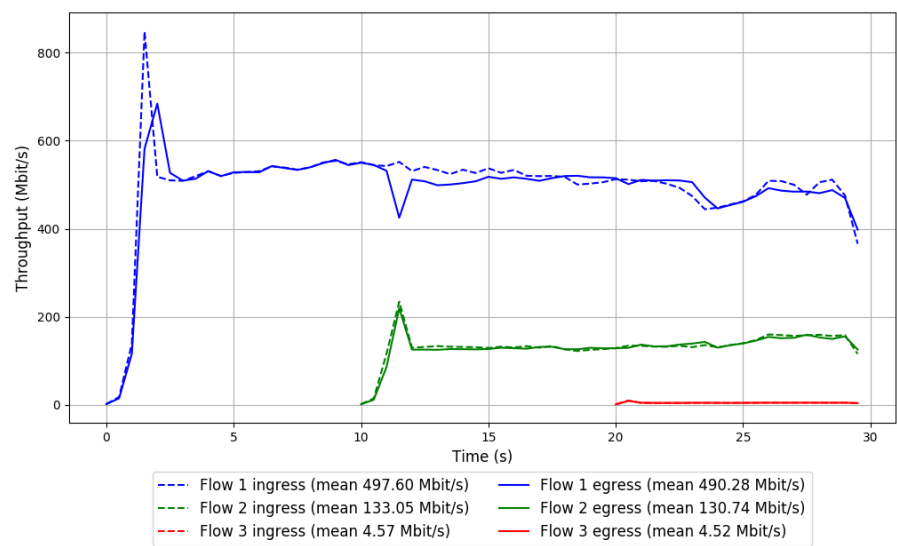


```
Run 1: Statistics of PCC

Start at: 2018-01-17 18:19:58
End at: 2018-01-17 18:20:28

# Below is generated by plot.py at 2018-01-17 23:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.58 Mbit/s
95th percentile per-packet one-way delay: 170.720 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 490.28 Mbit/s
95th percentile per-packet one-way delay: 170.612 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 130.74 Mbit/s
95th percentile per-packet one-way delay: 171.242 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 152.379 ms
Loss rate: 1.20%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-17 18:36:54

End at: 2018-01-17 18:37:24

Below is generated by plot.py at 2018-01-17 23:36:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 590.03 Mbit/s

95th percentile per-packet one-way delay: 168.283 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 528.58 Mbit/s

95th percentile per-packet one-way delay: 167.979 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 62.48 Mbit/s

95th percentile per-packet one-way delay: 169.038 ms

Loss rate: 0.36%

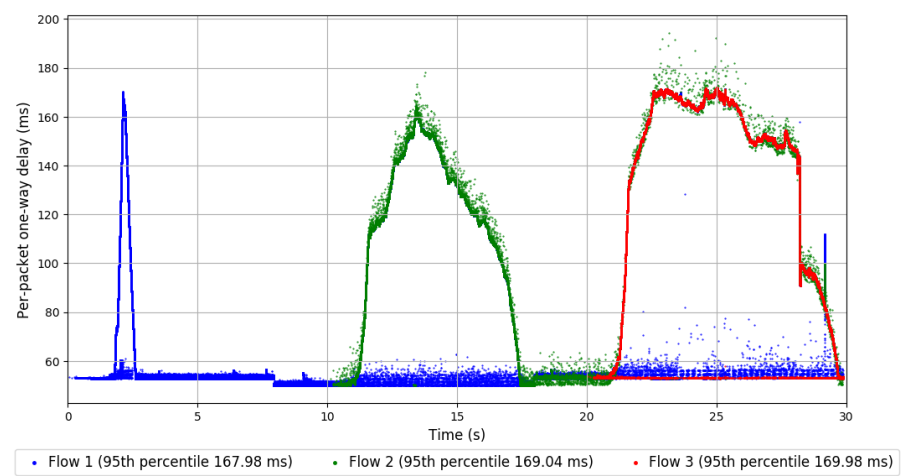
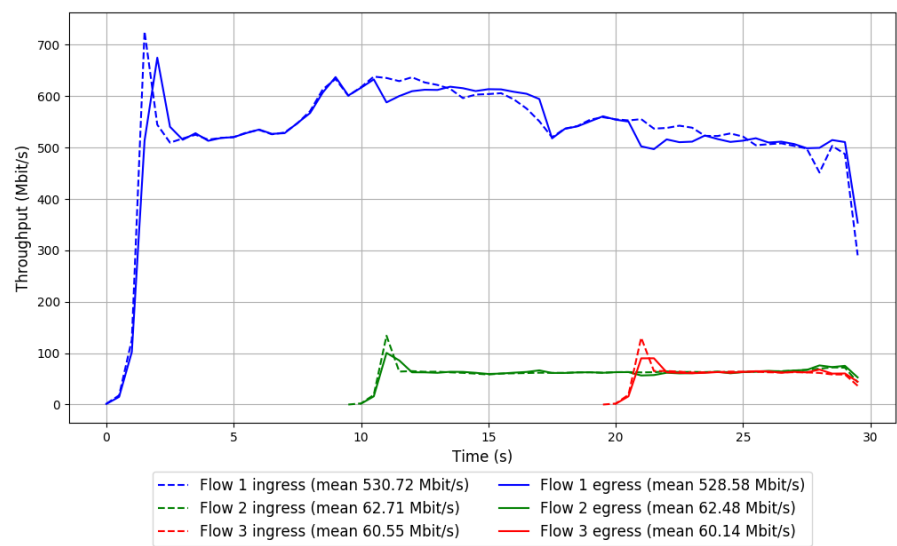
-- Flow 3:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 169.979 ms

Loss rate: 0.68%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-17 18:53:36

End at: 2018-01-17 18:54:06

Below is generated by plot.py at 2018-01-17 23:36:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 544.04 Mbit/s

95th percentile per-packet one-way delay: 166.102 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 415.86 Mbit/s

95th percentile per-packet one-way delay: 166.490 ms

Loss rate: 3.55%

-- Flow 2:

Average throughput: 163.37 Mbit/s

95th percentile per-packet one-way delay: 164.957 ms

Loss rate: 0.90%

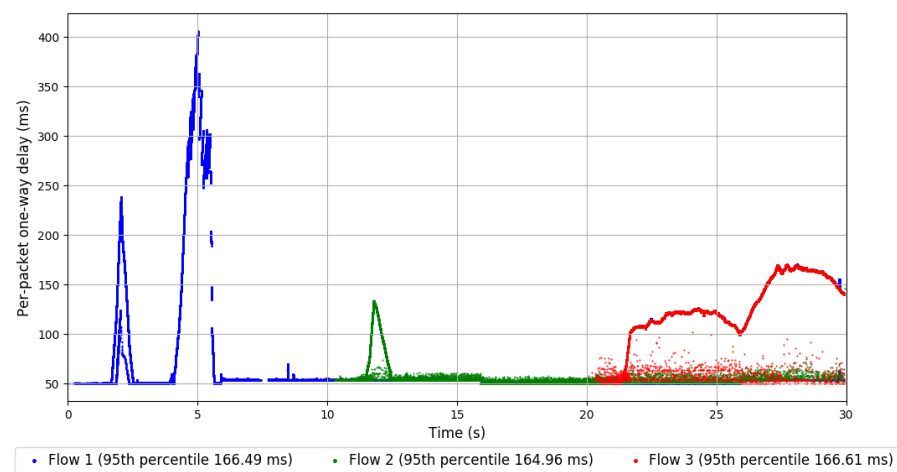
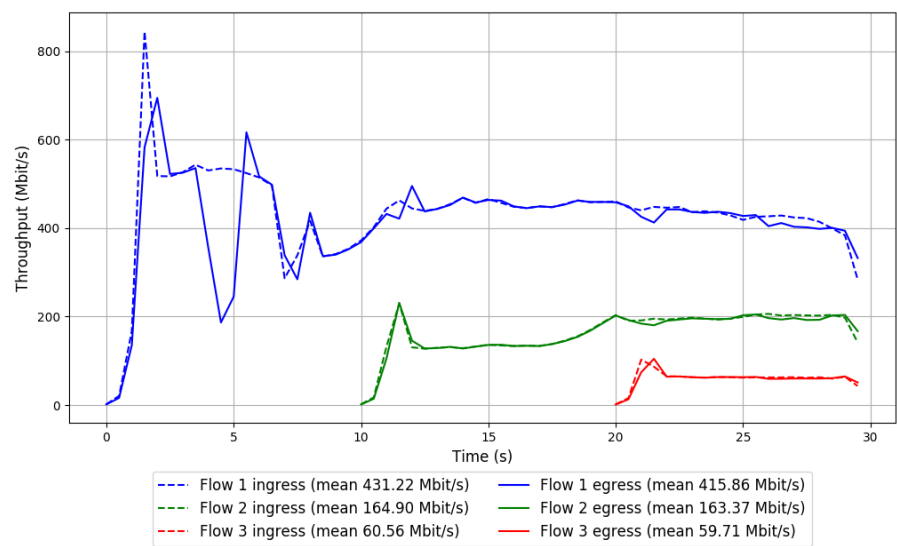
-- Flow 3:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 166.608 ms

Loss rate: 1.43%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-17 19:10:09

End at: 2018-01-17 19:10:39

Below is generated by plot.py at 2018-01-17 23:36:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 600.34 Mbit/s

95th percentile per-packet one-way delay: 205.682 ms

Loss rate: 4.12%

-- Flow 1:

Average throughput: 514.92 Mbit/s

95th percentile per-packet one-way delay: 214.317 ms

Loss rate: 3.86%

-- Flow 2:

Average throughput: 70.43 Mbit/s

95th percentile per-packet one-way delay: 170.040 ms

Loss rate: 4.44%

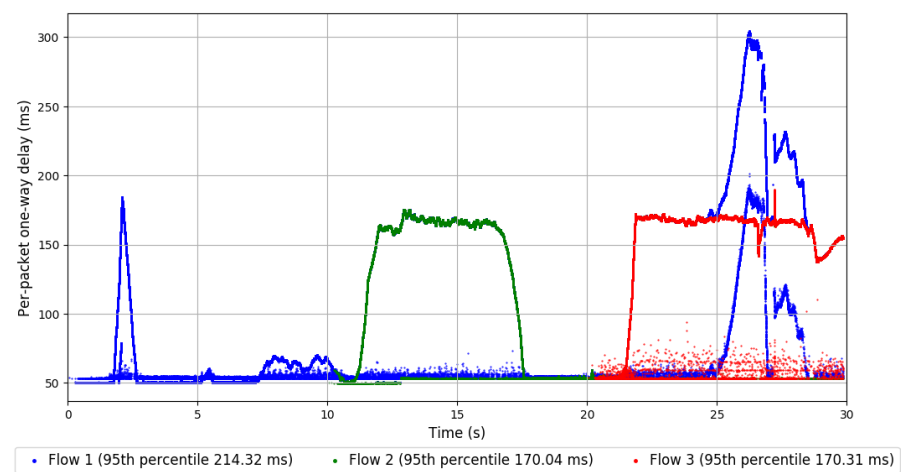
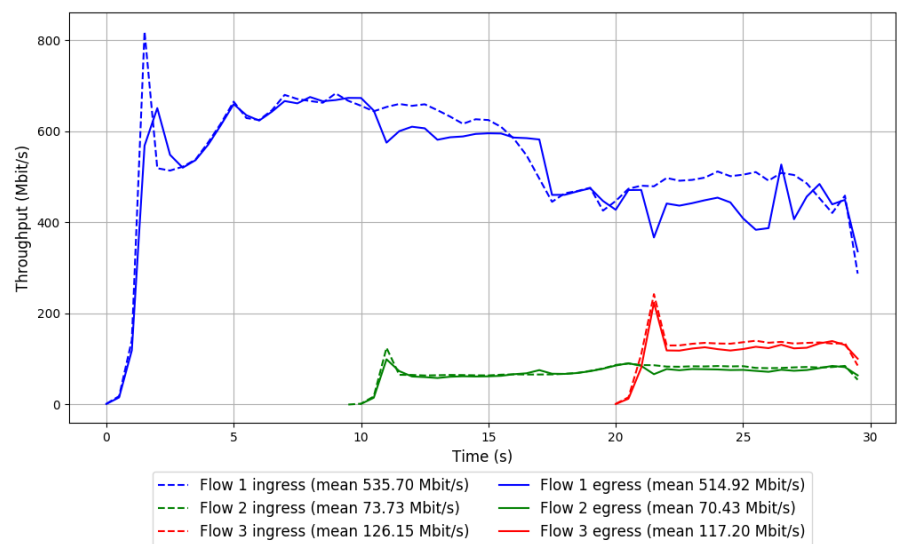
-- Flow 3:

Average throughput: 117.20 Mbit/s

95th percentile per-packet one-way delay: 170.308 ms

Loss rate: 7.05%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-17 19:27:07

End at: 2018-01-17 19:27:37

Below is generated by plot.py at 2018-01-17 23:36:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 577.54 Mbit/s

95th percentile per-packet one-way delay: 205.634 ms

Loss rate: 3.53%

-- Flow 1:

Average throughput: 526.26 Mbit/s

95th percentile per-packet one-way delay: 216.507 ms

Loss rate: 3.67%

-- Flow 2:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 171.632 ms

Loss rate: 1.91%

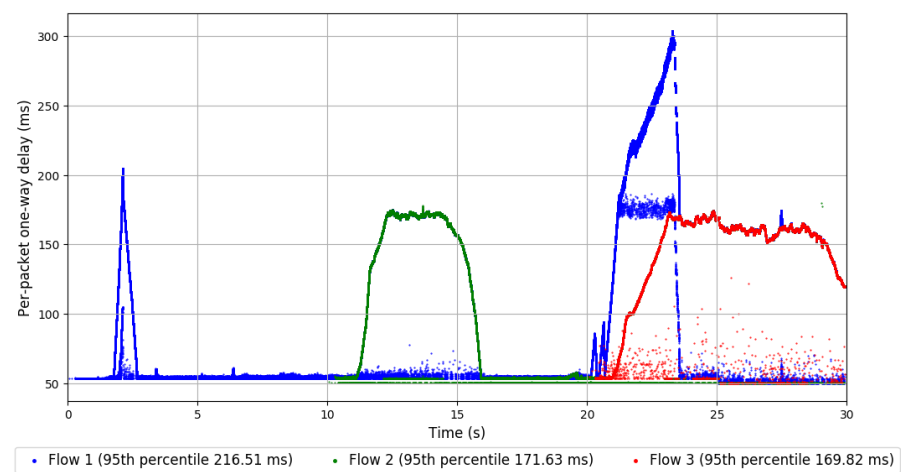
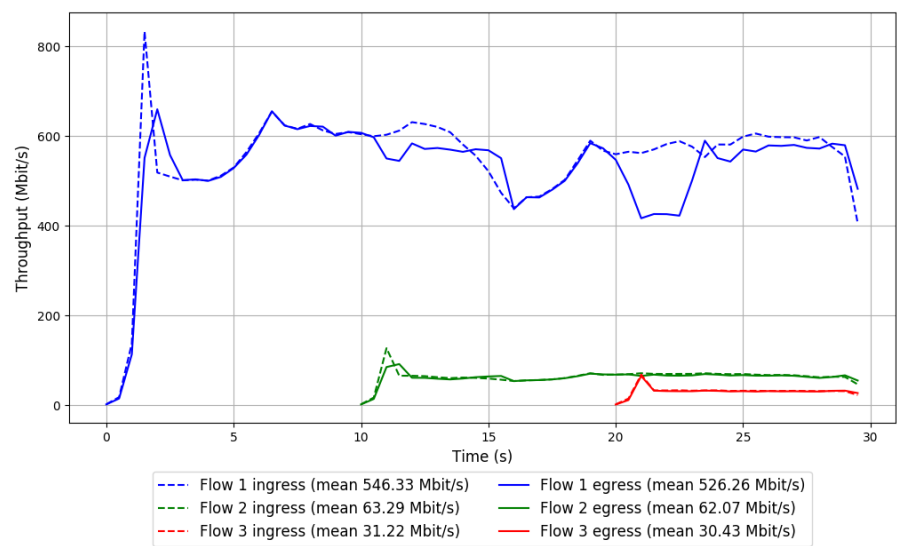
-- Flow 3:

Average throughput: 30.43 Mbit/s

95th percentile per-packet one-way delay: 169.820 ms

Loss rate: 2.55%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-17 19:44:06

End at: 2018-01-17 19:44:36

Below is generated by plot.py at 2018-01-17 23:37:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 611.31 Mbit/s

95th percentile per-packet one-way delay: 165.464 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 553.33 Mbit/s

95th percentile per-packet one-way delay: 165.214 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 166.195 ms

Loss rate: 0.81%

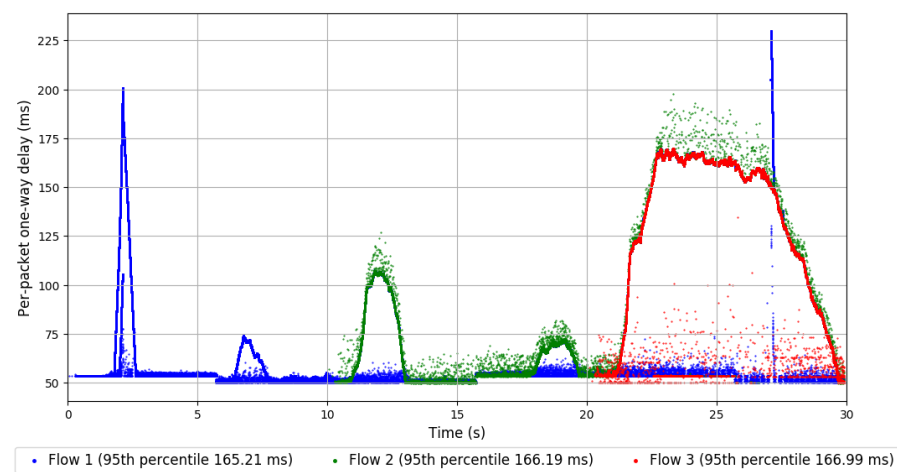
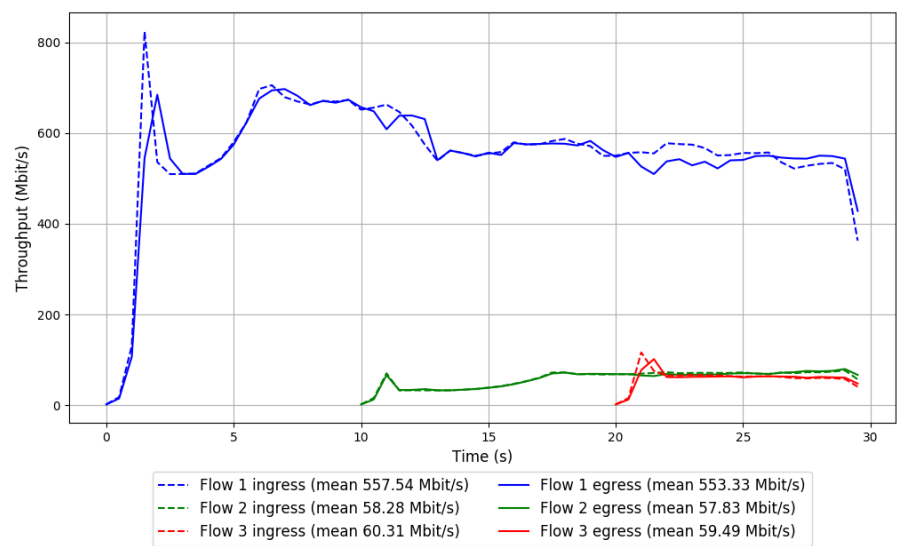
-- Flow 3:

Average throughput: 59.49 Mbit/s

95th percentile per-packet one-way delay: 166.990 ms

Loss rate: 1.41%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-17 20:00:51

End at: 2018-01-17 20:01:21

Below is generated by plot.py at 2018-01-17 23:39:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 599.21 Mbit/s

95th percentile per-packet one-way delay: 158.471 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 549.08 Mbit/s

95th percentile per-packet one-way delay: 158.472 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 67.42 Mbit/s

95th percentile per-packet one-way delay: 158.631 ms

Loss rate: 0.40%

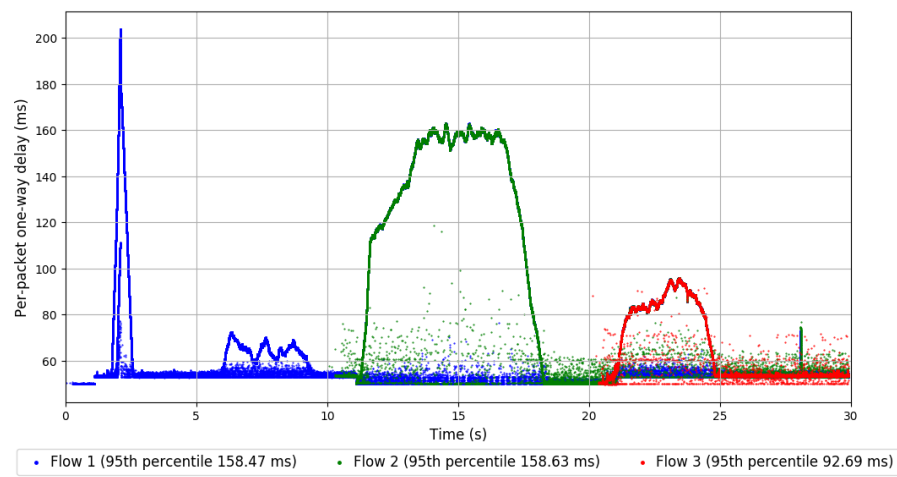
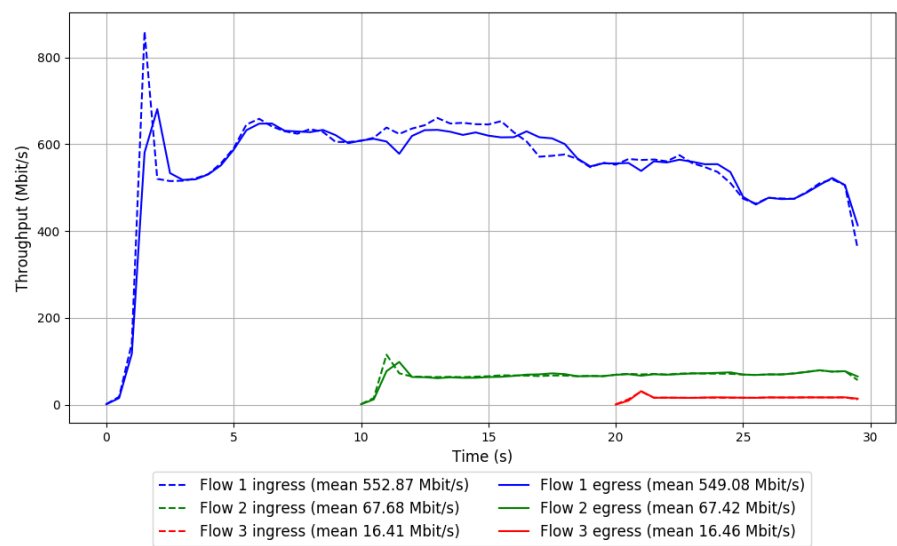
-- Flow 3:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 92.694 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-17 20:17:43

End at: 2018-01-17 20:18:13

Below is generated by plot.py at 2018-01-17 23:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.05 Mbit/s

95th percentile per-packet one-way delay: 159.541 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 595.41 Mbit/s

95th percentile per-packet one-way delay: 159.474 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 159.535 ms

Loss rate: 2.34%

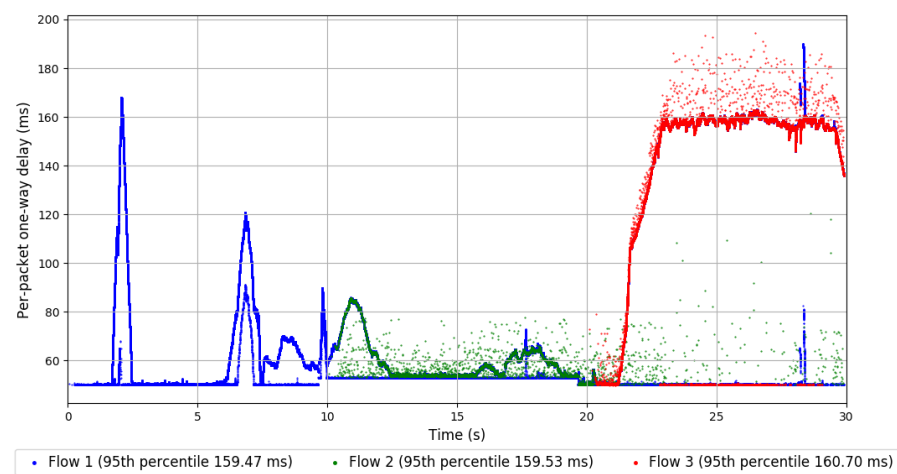
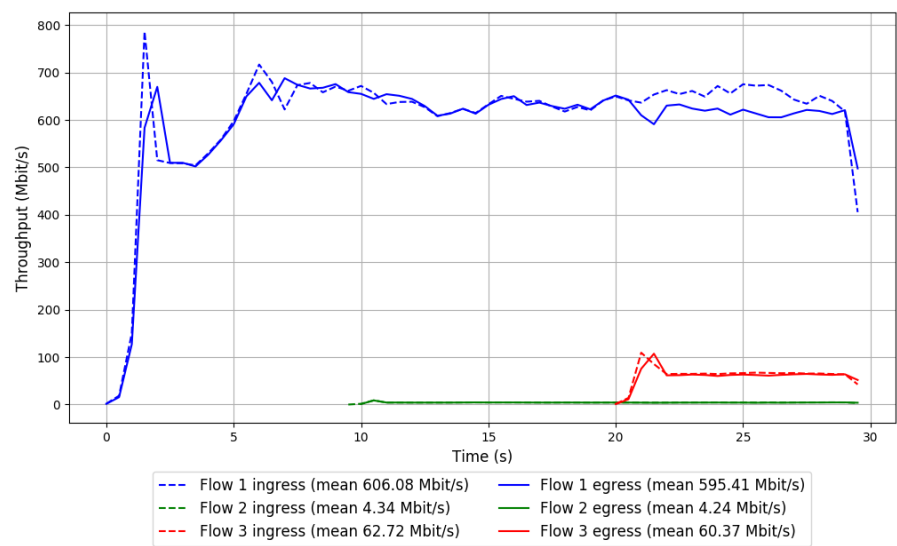
-- Flow 3:

Average throughput: 60.37 Mbit/s

95th percentile per-packet one-way delay: 160.701 ms

Loss rate: 3.92%

Run 8: Report of PCC — Data Link

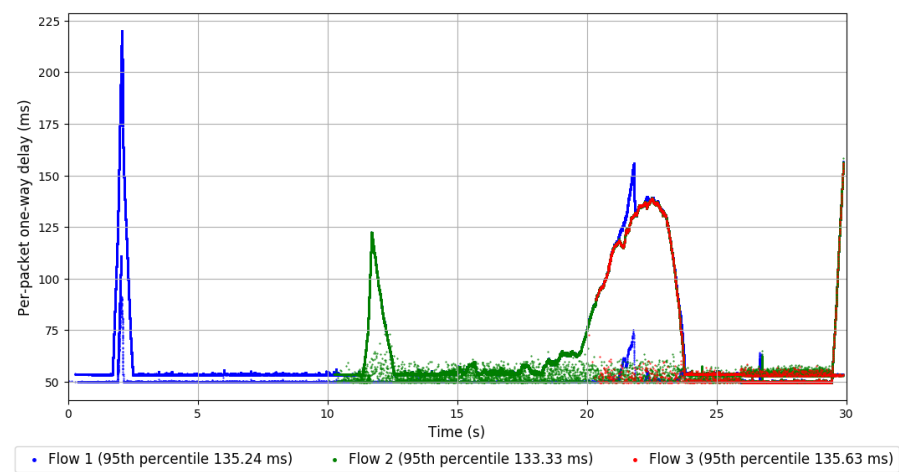
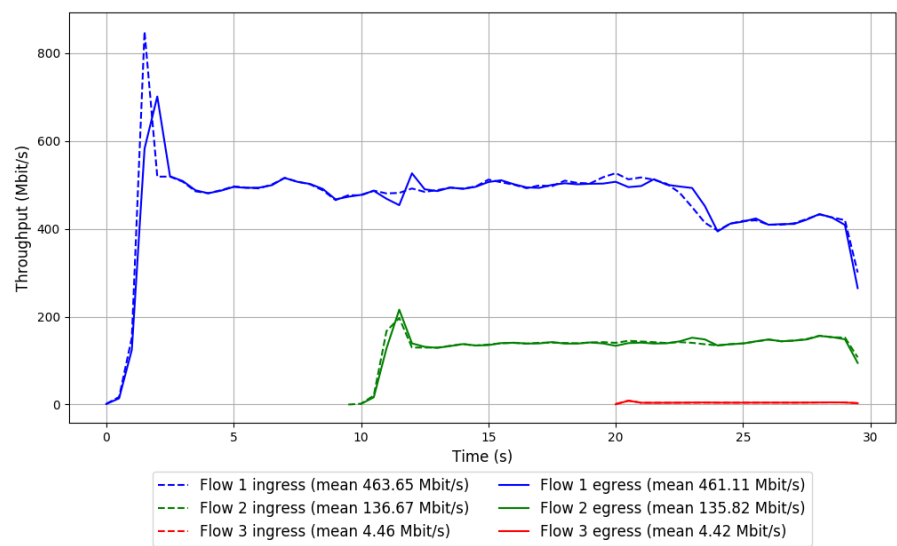


```
Run 9: Statistics of PCC

Start at: 2018-01-17 20:34:46
End at: 2018-01-17 20:35:16

# Below is generated by plot.py at 2018-01-17 23:46:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 552.87 Mbit/s
95th percentile per-packet one-way delay: 135.007 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 461.11 Mbit/s
95th percentile per-packet one-way delay: 135.243 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 135.82 Mbit/s
95th percentile per-packet one-way delay: 133.332 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 135.632 ms
Loss rate: 1.12%
```

Run 9: Report of PCC — Data Link

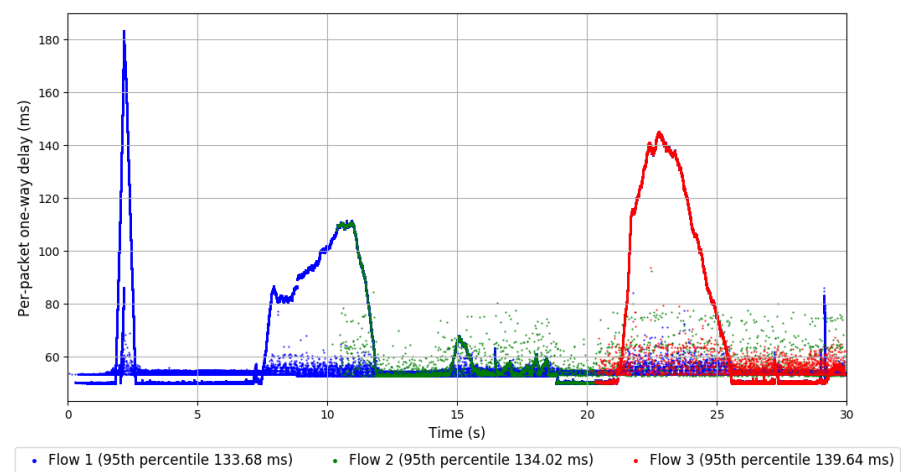
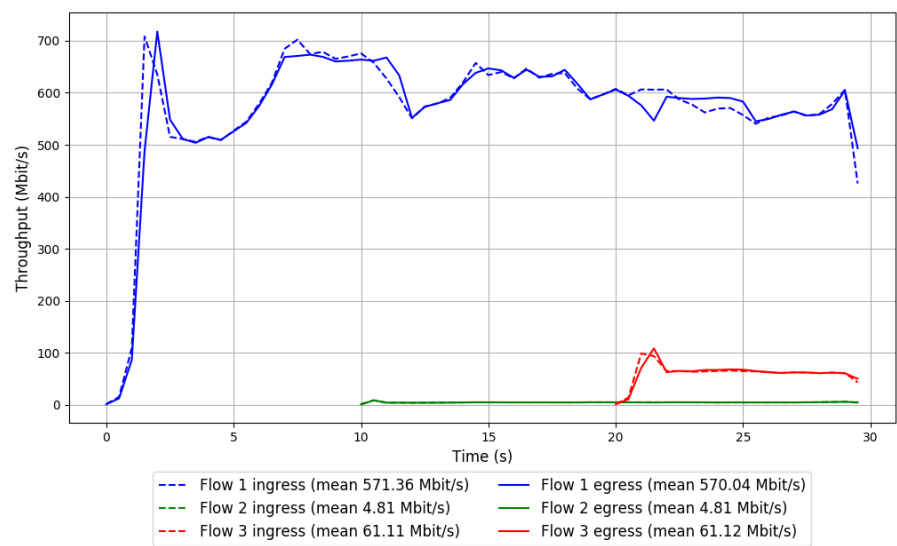


```
Run 10: Statistics of PCC

Start at: 2018-01-17 20:51:03
End at: 2018-01-17 20:51:33

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 593.36 Mbit/s
95th percentile per-packet one-way delay: 134.849 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 570.04 Mbit/s
95th percentile per-packet one-way delay: 133.682 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 134.021 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.12 Mbit/s
95th percentile per-packet one-way delay: 139.639 ms
Loss rate: 0.00%
```

Run 10: Report of PCC — Data Link

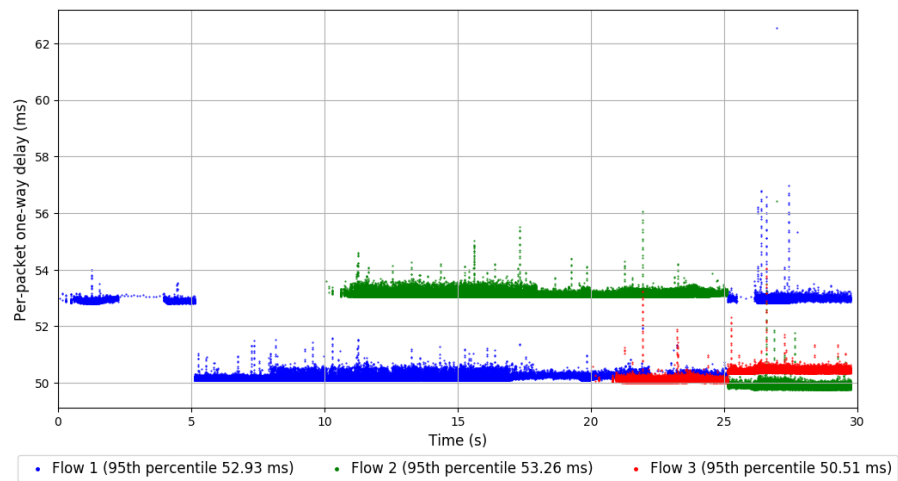
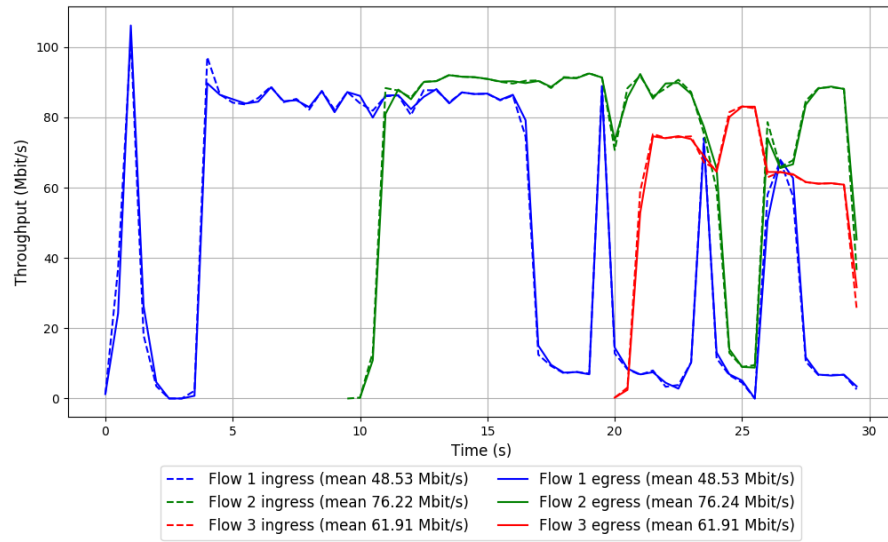


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-17 18:26:27
End at: 2018-01-17 18:26:57

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.32 Mbit/s
95th percentile per-packet one-way delay: 53.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 52.932 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.24 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.91 Mbit/s
95th percentile per-packet one-way delay: 50.506 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-17 18:43:29

End at: 2018-01-17 18:43:59

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.47 Mbit/s

95th percentile per-packet one-way delay: 53.485 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 53.221 ms

Loss rate: 0.00%

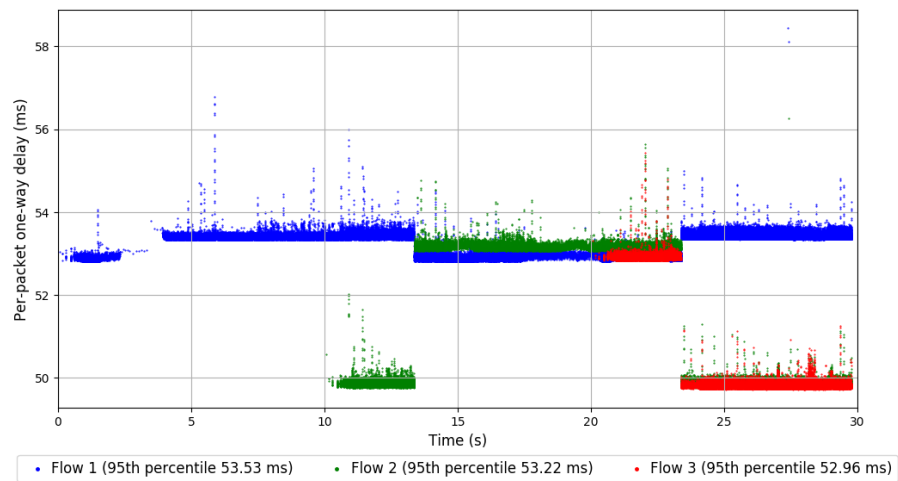
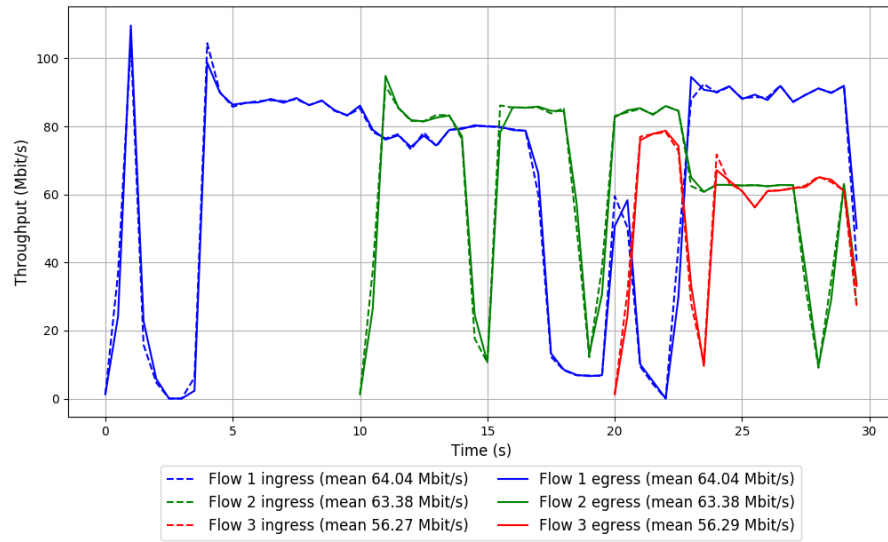
-- Flow 3:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 52.962 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-17 19:00:02

End at: 2018-01-17 19:00:32

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 53.496 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 50.178 ms

Loss rate: 0.00%

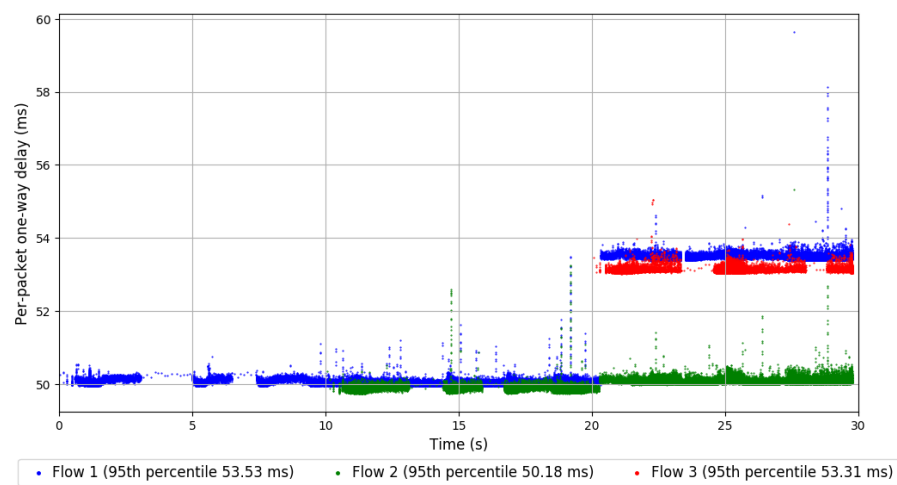
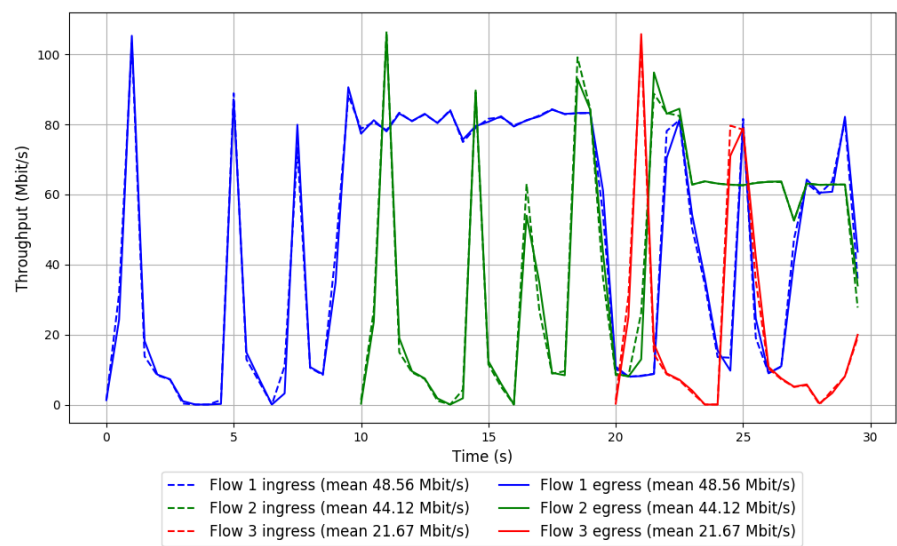
-- Flow 3:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 53.310 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-17 19:16:35

End at: 2018-01-17 19:17:05

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 53.473 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 53.170 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 50.496 ms

Loss rate: 0.00%

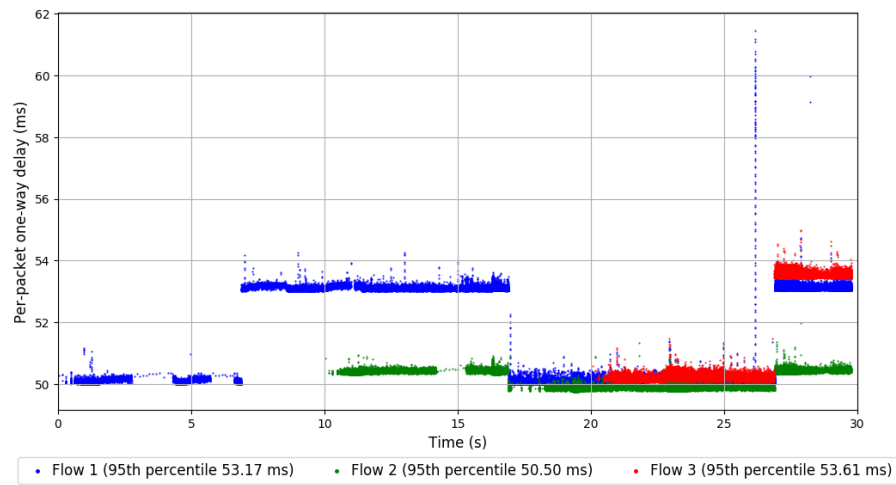
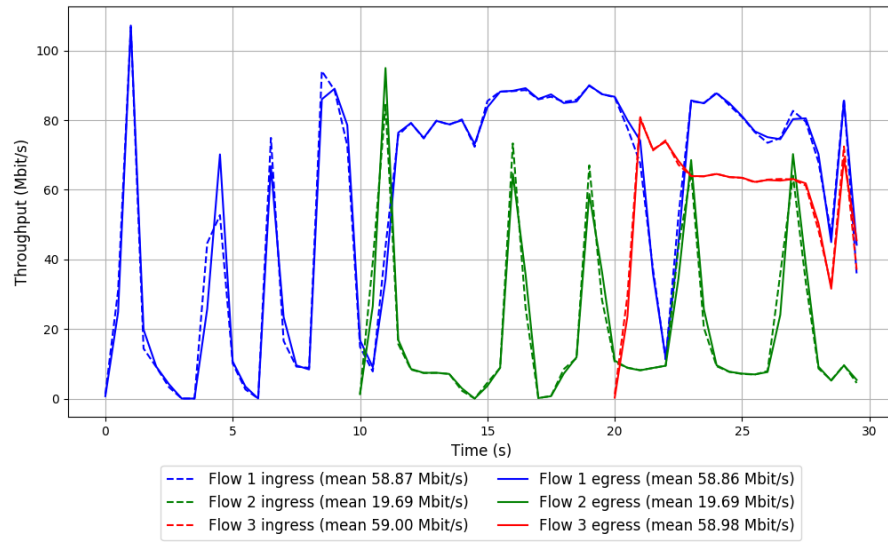
-- Flow 3:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 53.613 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-17 19:33:43

End at: 2018-01-17 19:34:13

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.01 Mbit/s

95th percentile per-packet one-way delay: 53.379 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.76 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.05 Mbit/s

95th percentile per-packet one-way delay: 53.440 ms

Loss rate: 0.00%

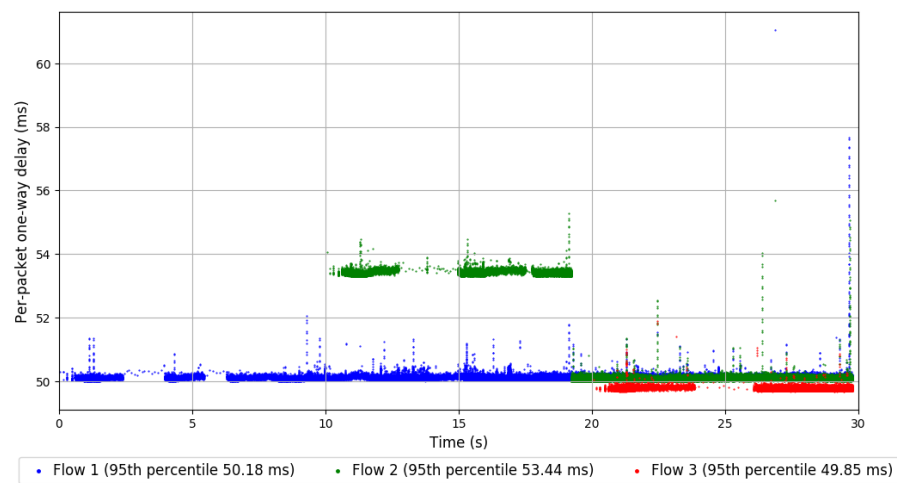
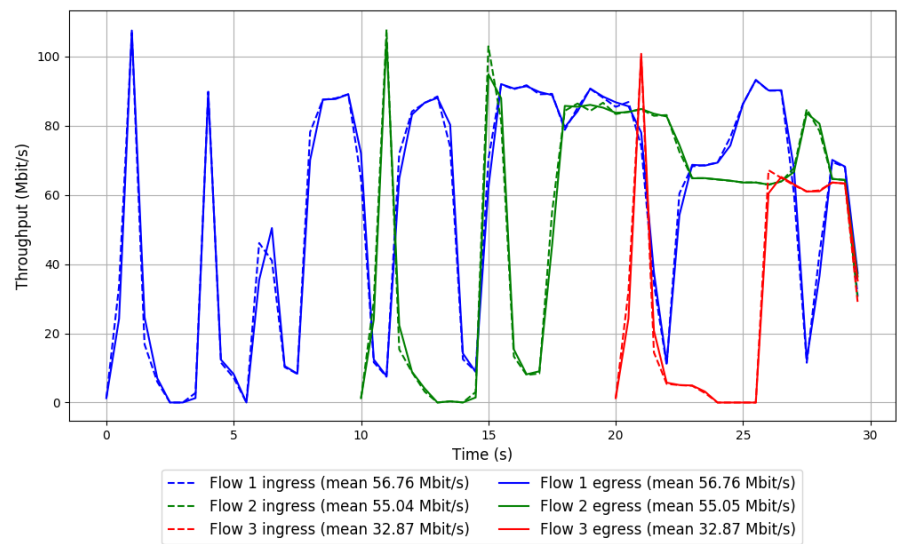
-- Flow 3:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 49.849 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-17 19:50:30

End at: 2018-01-17 19:51:00

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.68 Mbit/s

95th percentile per-packet one-way delay: 53.416 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 50.007 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.04 Mbit/s

95th percentile per-packet one-way delay: 49.983 ms

Loss rate: 0.00%

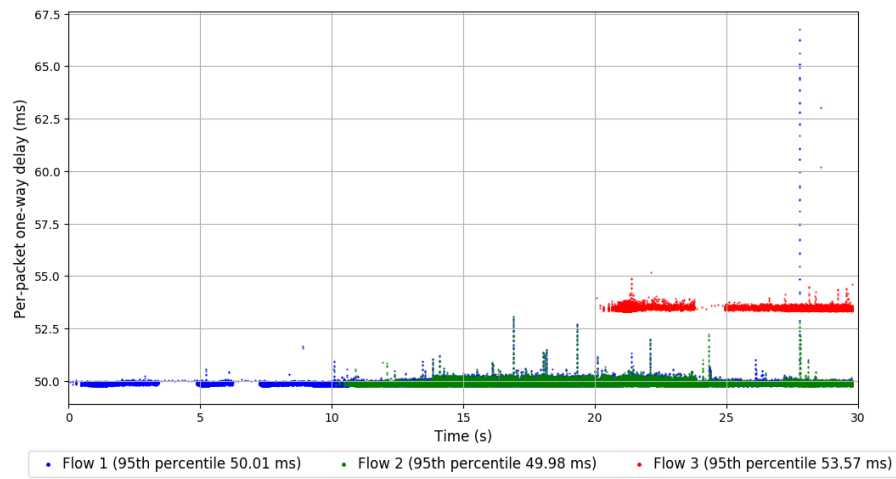
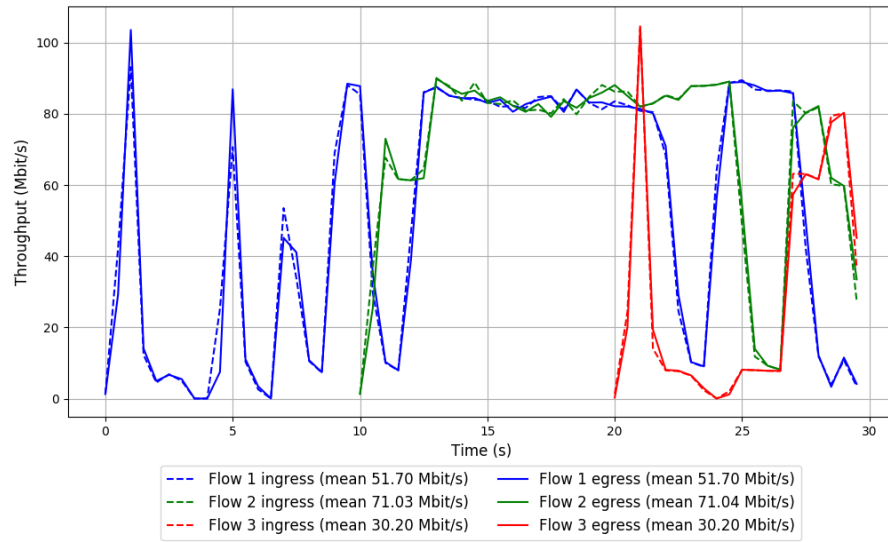
-- Flow 3:

Average throughput: 30.20 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-17 20:07:12

End at: 2018-01-17 20:07:42

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.66 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.08 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 53.563 ms

Loss rate: 0.00%

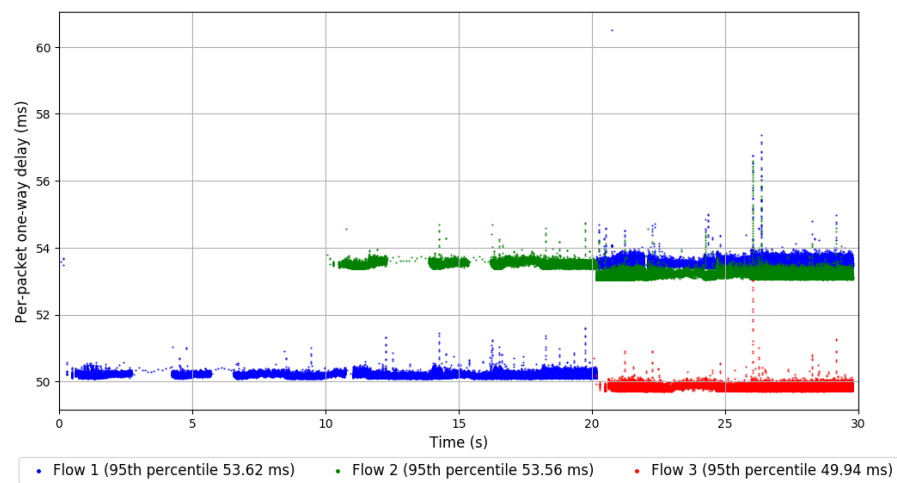
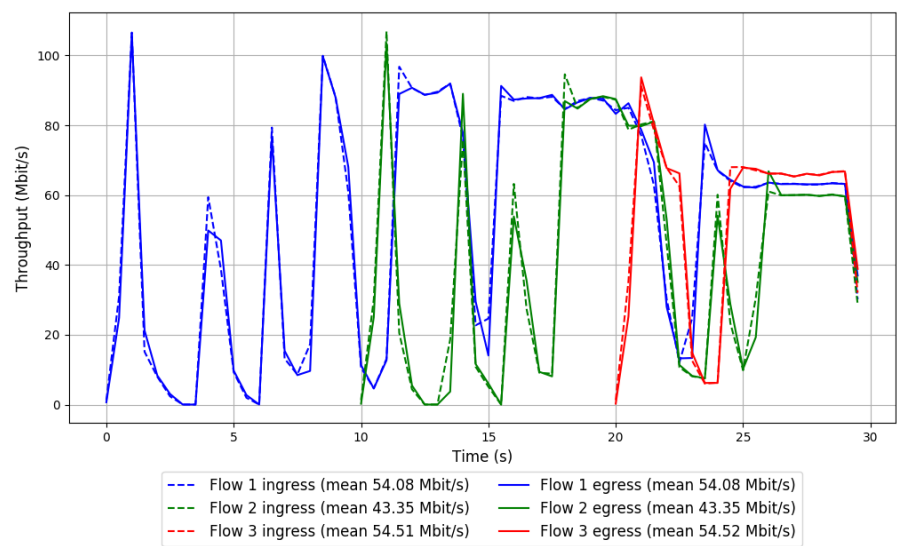
-- Flow 3:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 49.935 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-17 20:24:13

End at: 2018-01-17 20:24:43

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.36 Mbit/s

95th percentile per-packet one-way delay: 52.910 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 49.951 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.01 Mbit/s

95th percentile per-packet one-way delay: 52.964 ms

Loss rate: 0.00%

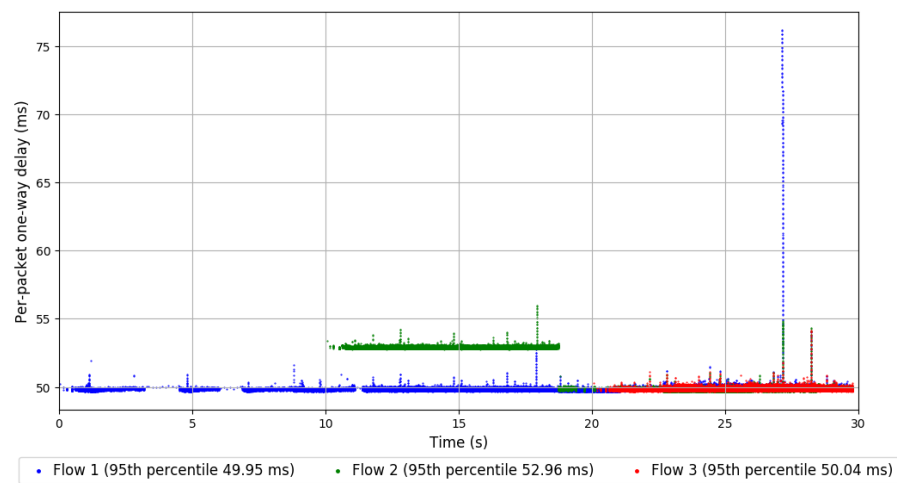
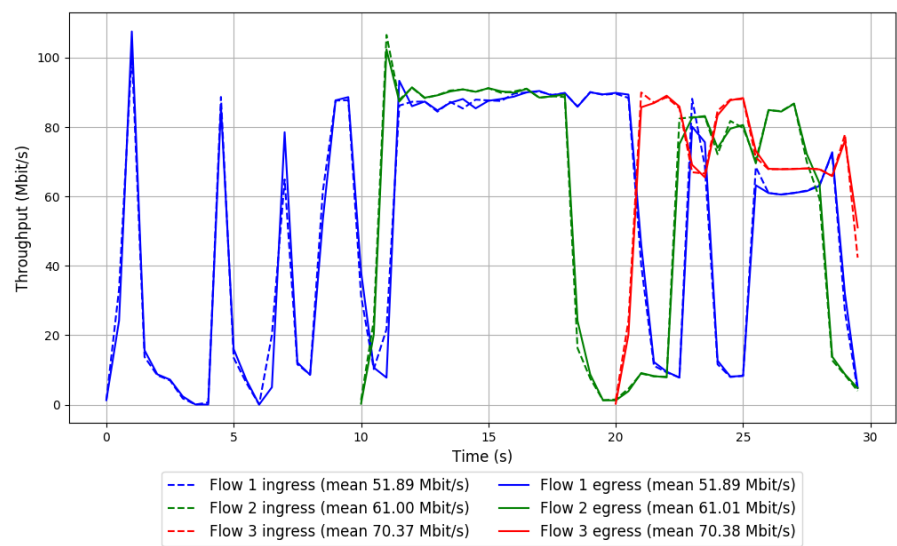
-- Flow 3:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 50.042 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-17 20:41:20

End at: 2018-01-17 20:41:50

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.10 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 50.526 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 49.959 ms

Loss rate: 0.00%

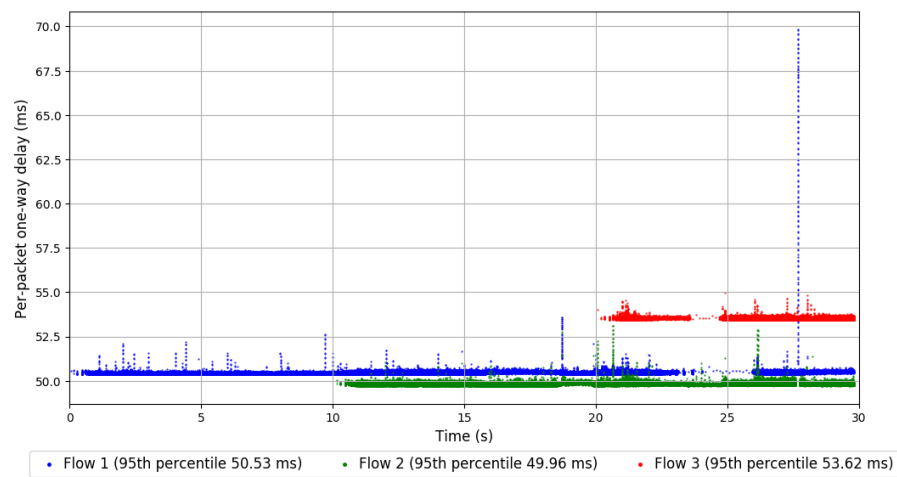
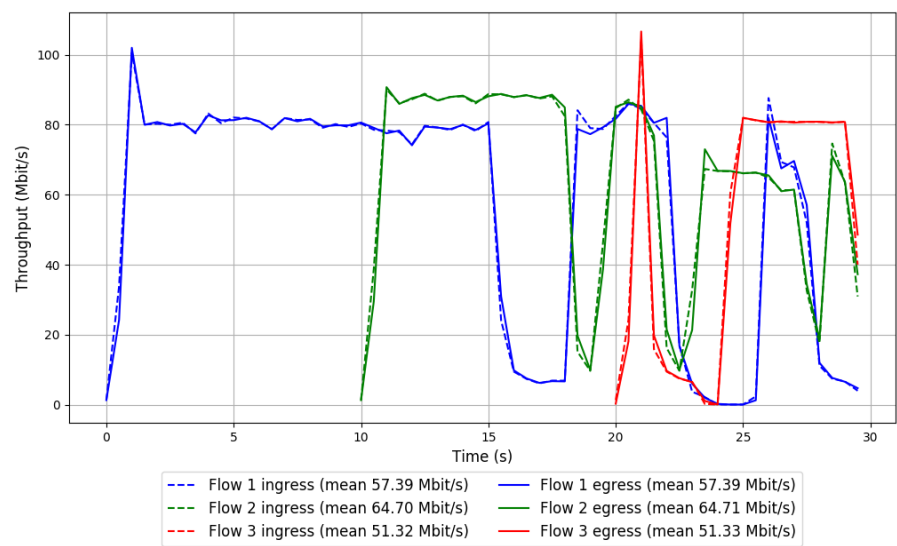
-- Flow 3:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-17 20:57:32

End at: 2018-01-17 20:58:02

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 52.991 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 52.914 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.98 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.00%

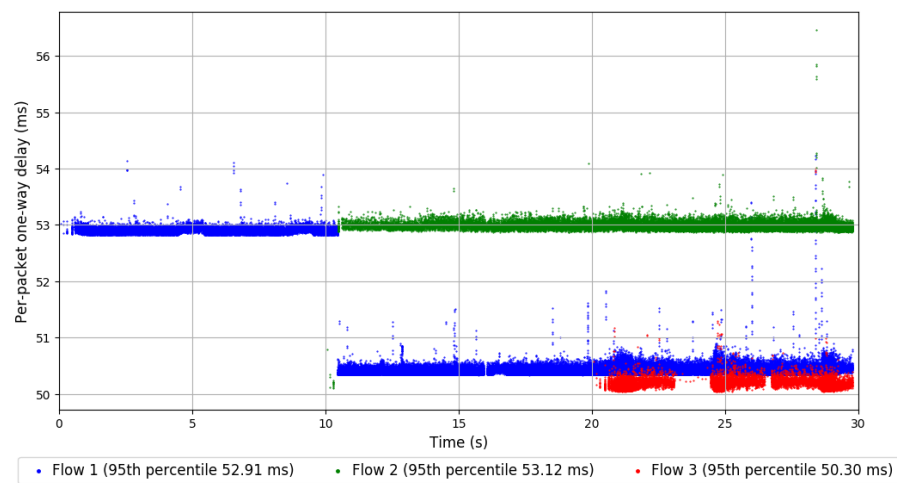
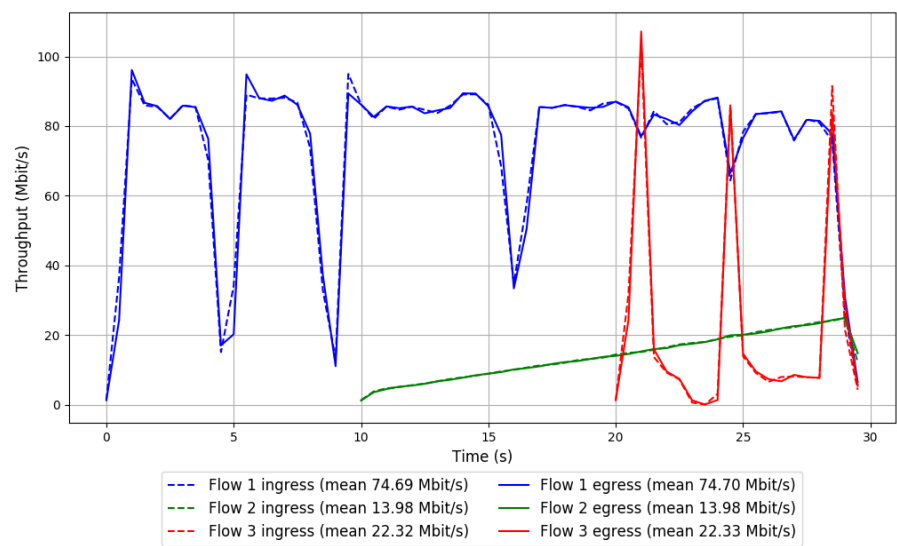
-- Flow 3:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

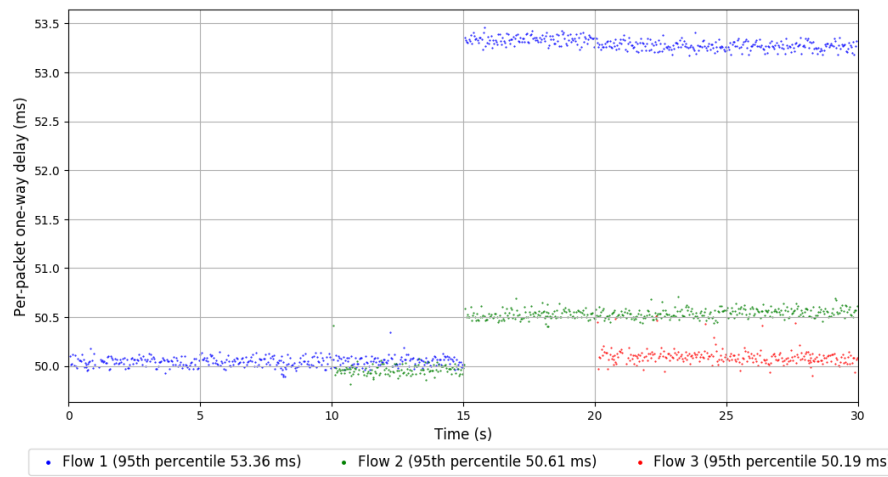
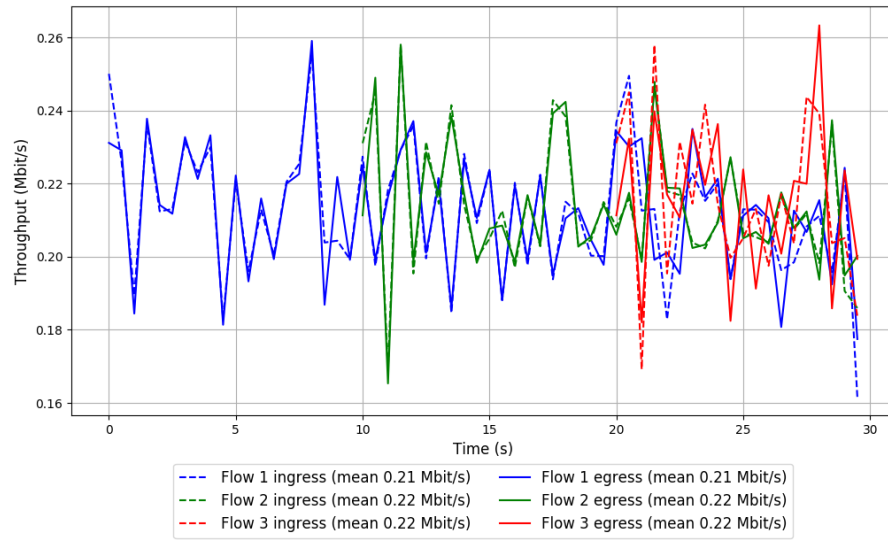


```
Run 1: Statistics of SCReAM

Start at: 2018-01-17 18:25:47
End at: 2018-01-17 18:26:17

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.341 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.361 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.607 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.185 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

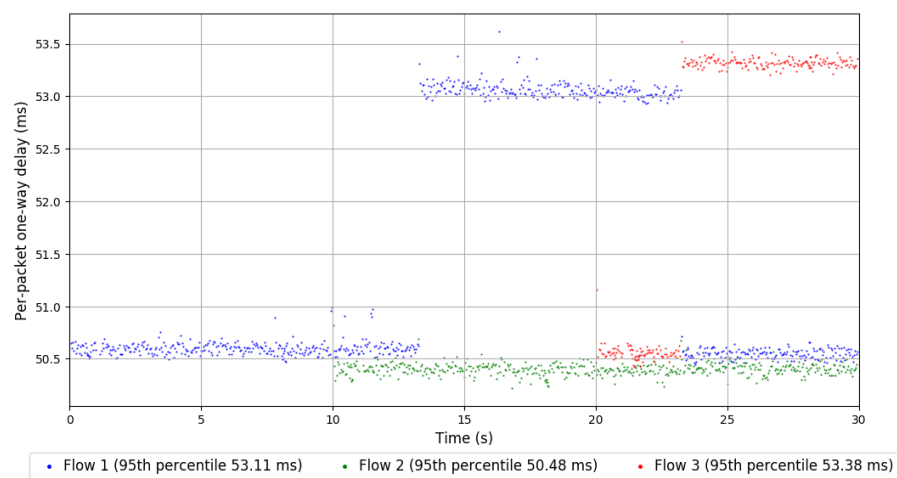
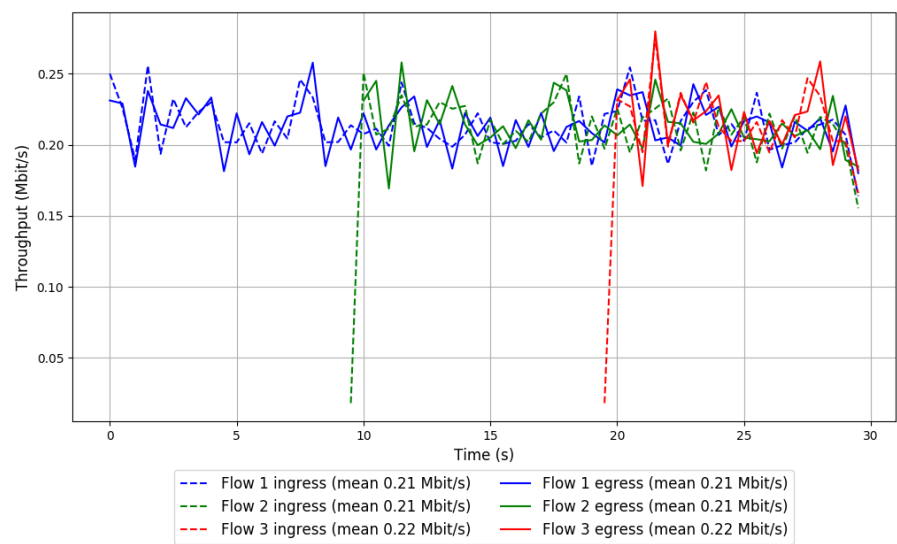


```
Run 2: Statistics of SCReAM

Start at: 2018-01-17 18:42:49
End at: 2018-01-17 18:43:19

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.378 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-17 18:59:22

End at: 2018-01-17 18:59:52

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.058 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.465 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.085 ms

Loss rate: 0.00%

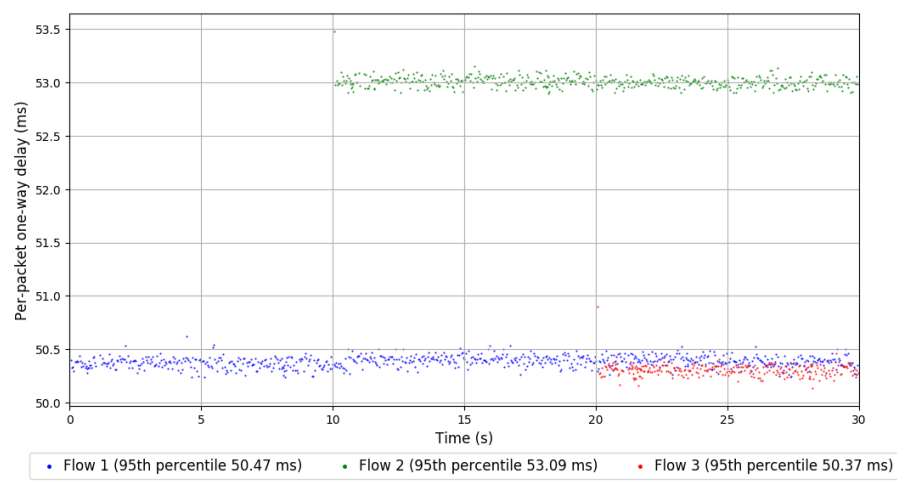
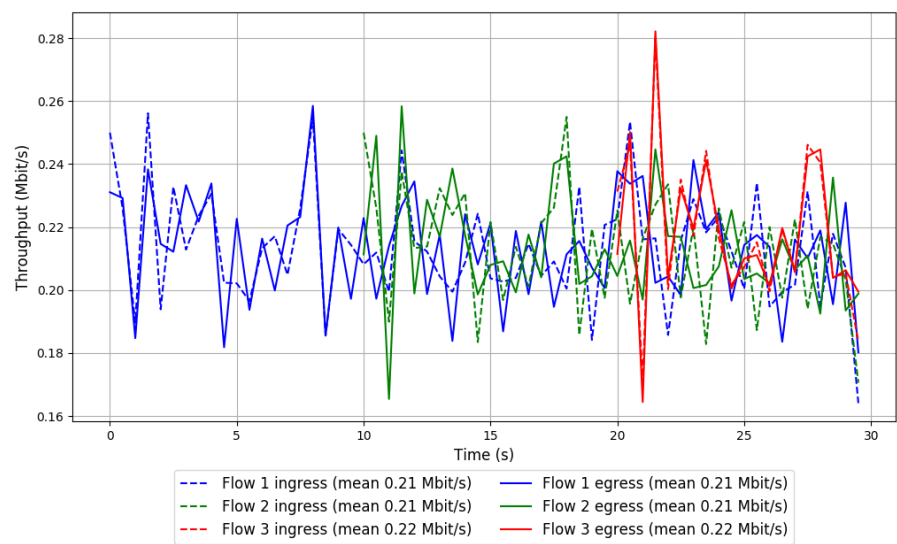
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

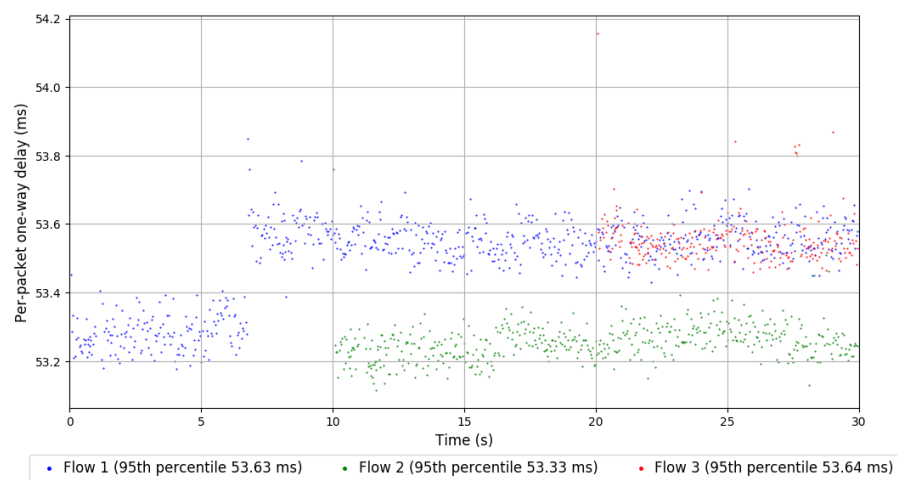
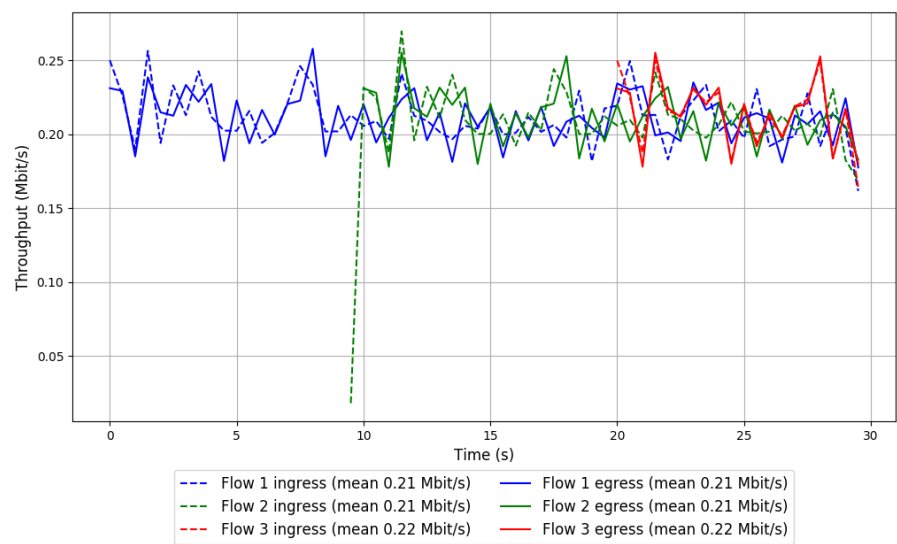


```
Run 4: Statistics of SCReAM

Start at: 2018-01-17 19:15:55
End at: 2018-01-17 19:16:25

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.632 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.334 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.643 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-17 19:33:03

End at: 2018-01-17 19:33:33

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.711 ms

Loss rate: 0.00%

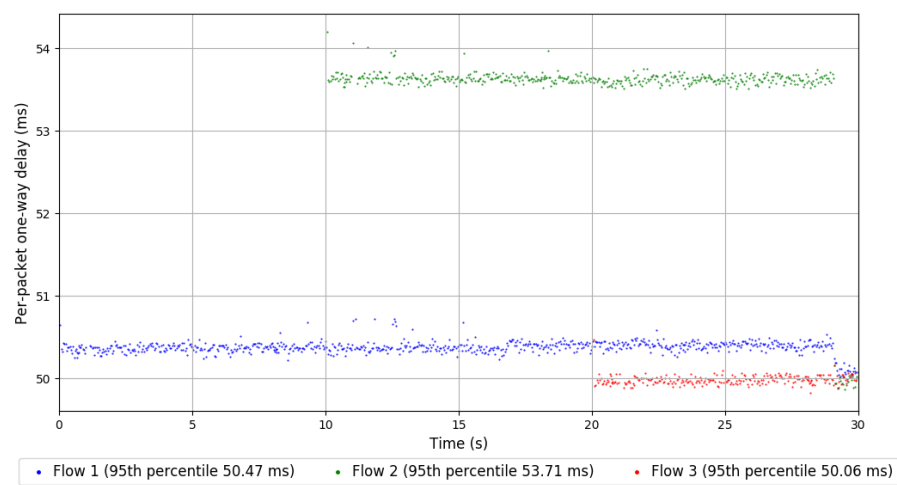
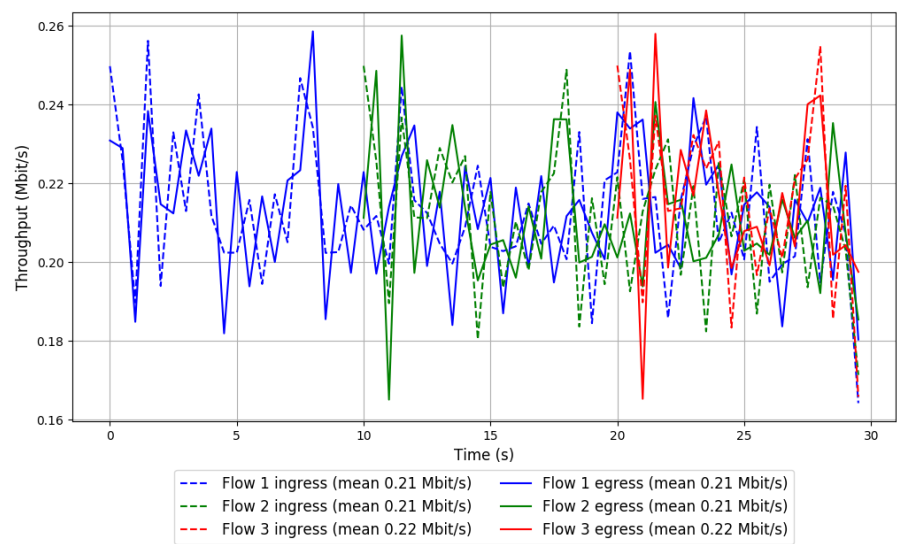
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

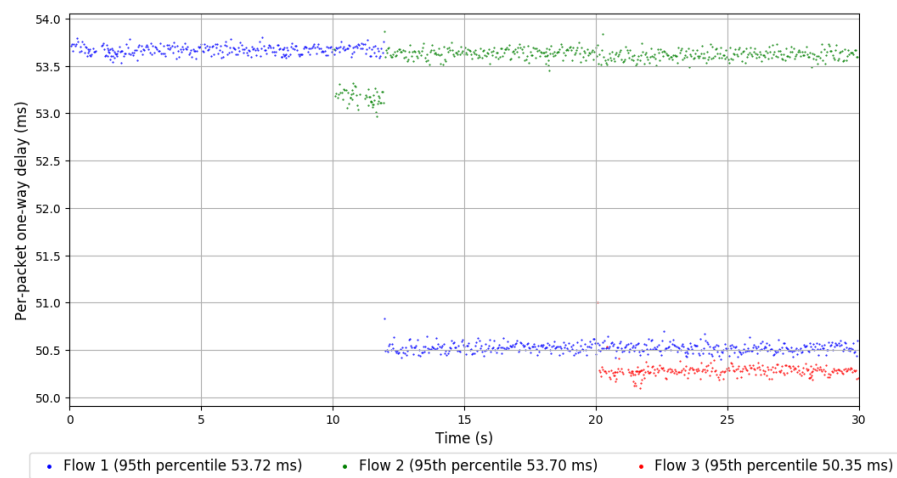
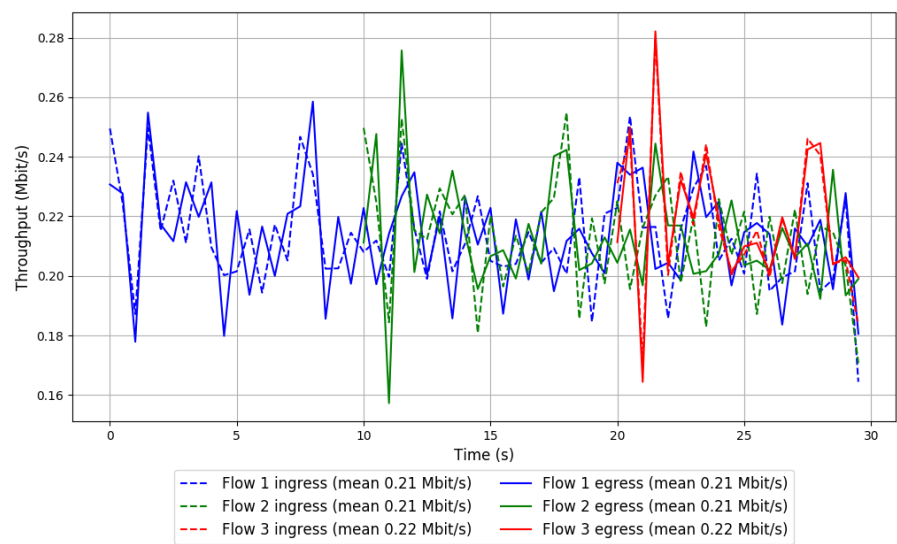


```
Run 6: Statistics of SCReAM

Start at: 2018-01-17 19:49:50
End at: 2018-01-17 19:50:20

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.351 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

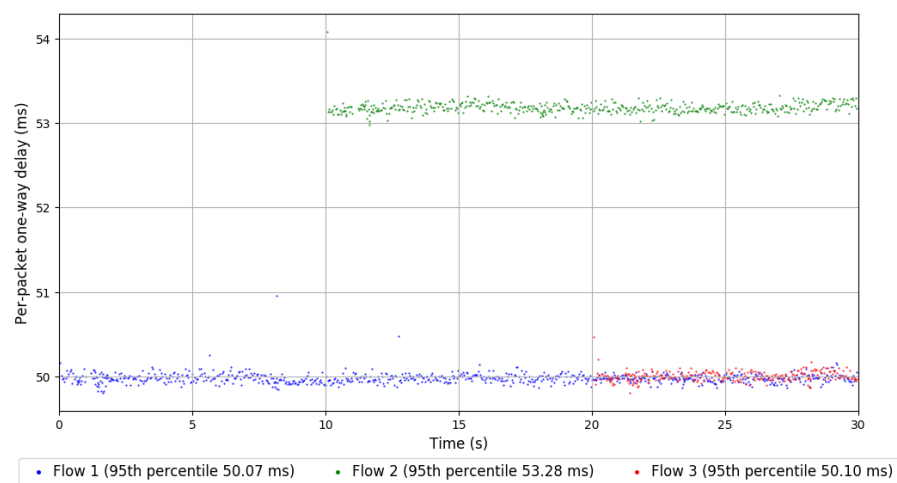
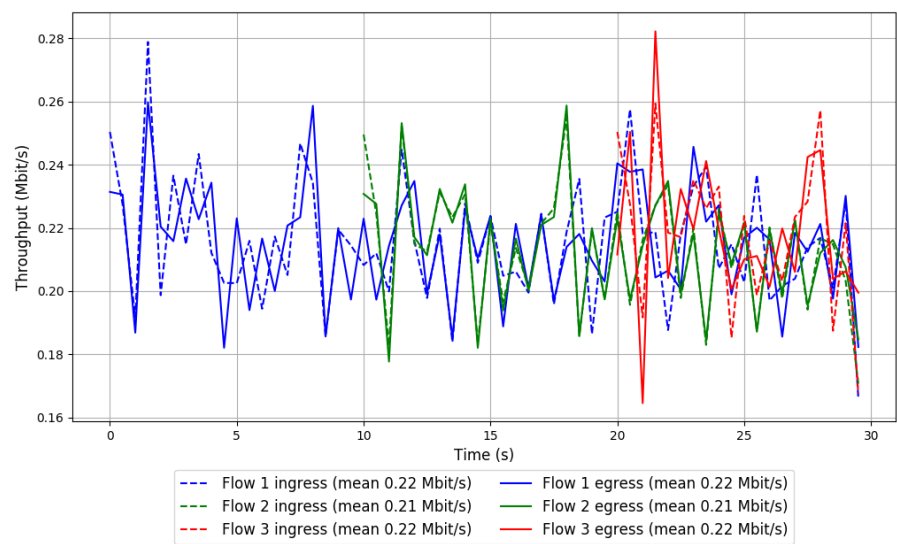


```
Run 7: Statistics of SReAM

Start at: 2018-01-17 20:06:32
End at: 2018-01-17 20:07:02

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.278 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.097 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-17 20:23:34

End at: 2018-01-17 20:24:04

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.547 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.376 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.349 ms

Loss rate: 0.00%

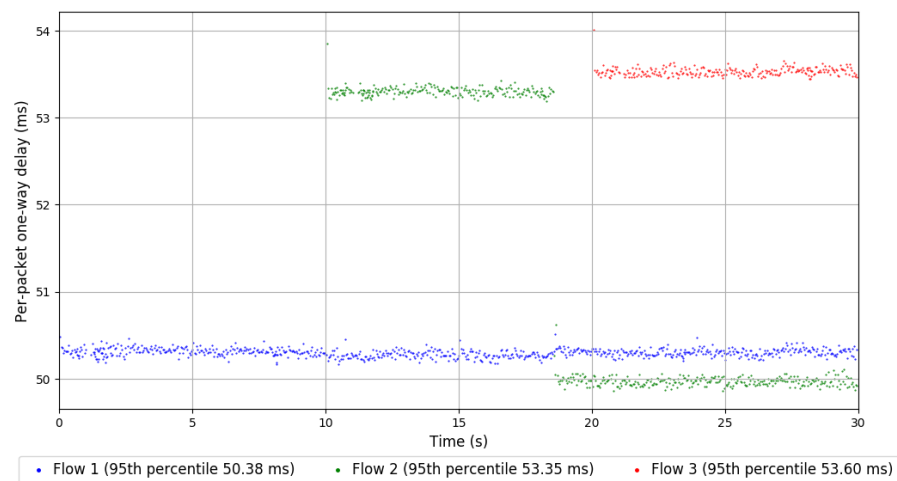
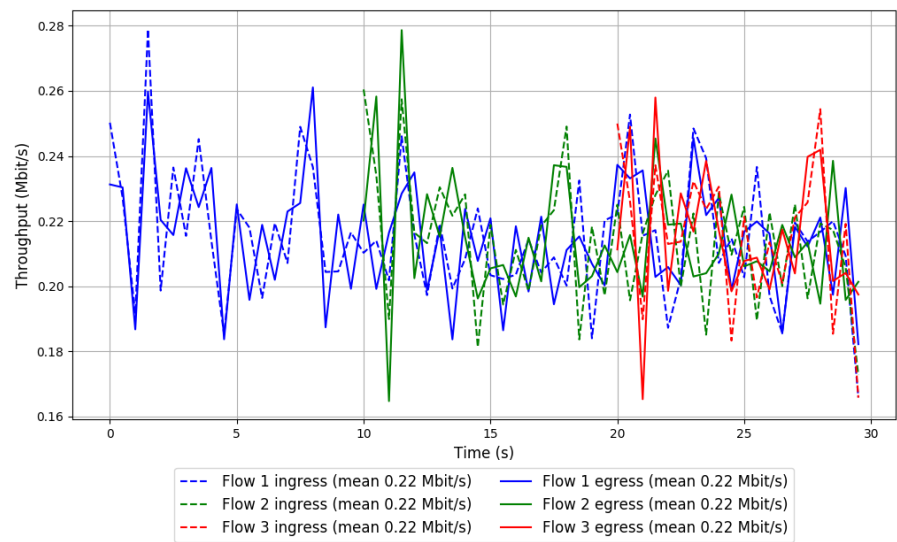
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-17 20:40:40

End at: 2018-01-17 20:41:10

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.348 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.364 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.978 ms

Loss rate: 0.00%

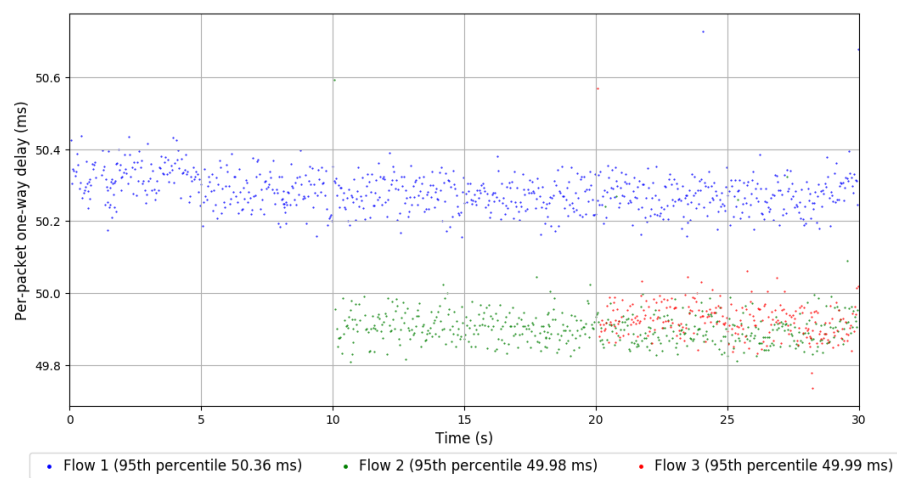
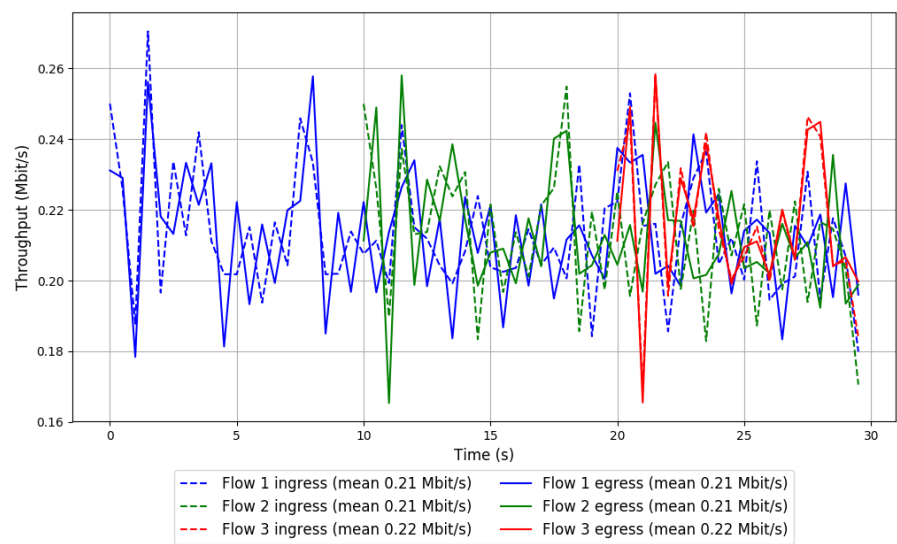
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.995 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

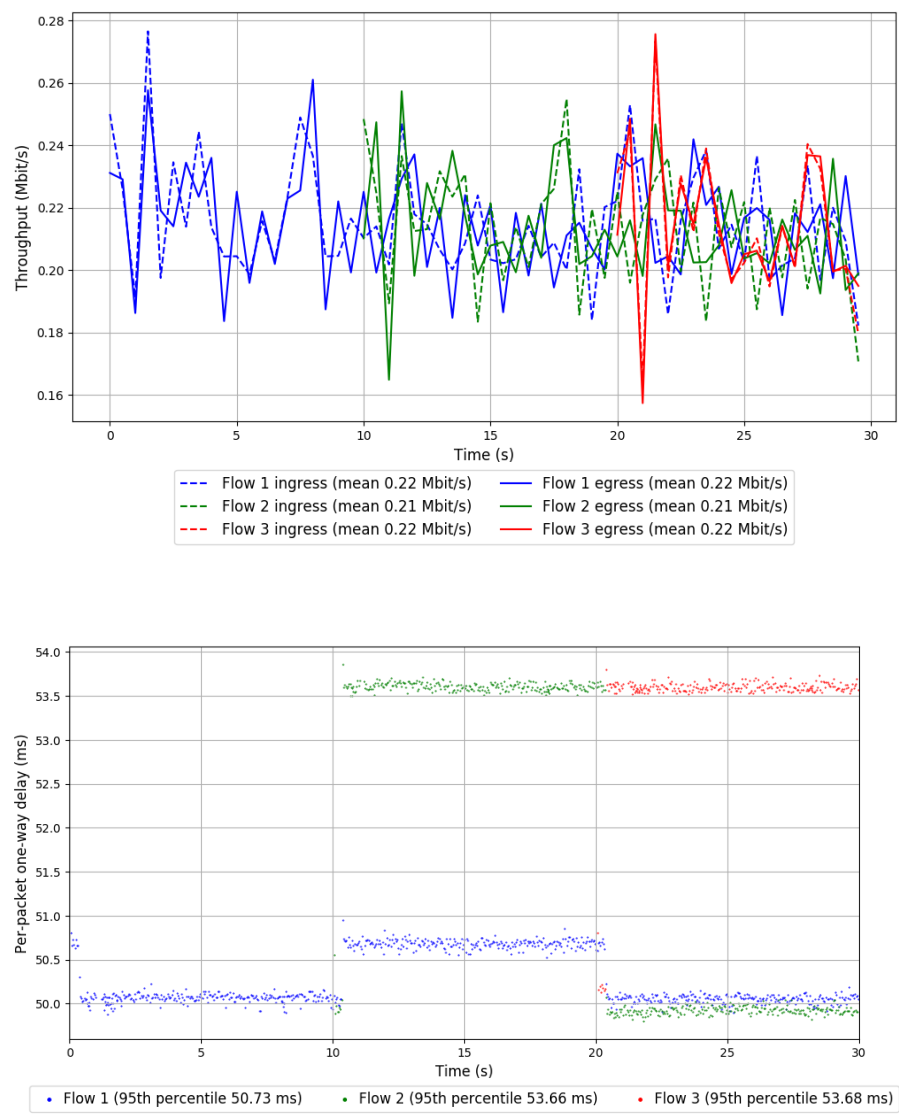


```
Run 10: Statistics of SCReAM

Start at: 2018-01-17 20:56:52
End at: 2018-01-17 20:57:22

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.730 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.681 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

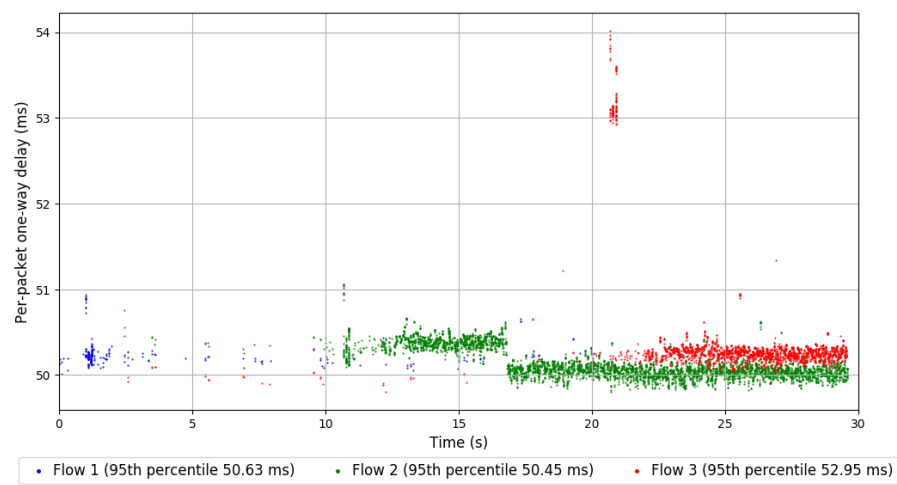
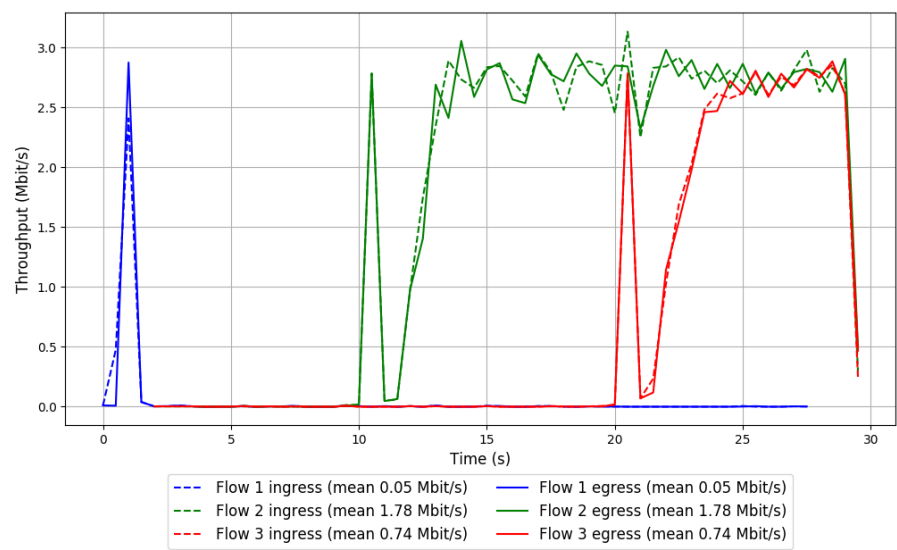


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-17 18:32:45
End at: 2018-01-17 18:33:15

# Below is generated by plot.py at 2018-01-17 23:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.630 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 50.449 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 52.945 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-17 18:49:24

End at: 2018-01-17 18:49:54

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 50.620 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 50.630 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 50.349 ms

Loss rate: 0.00%

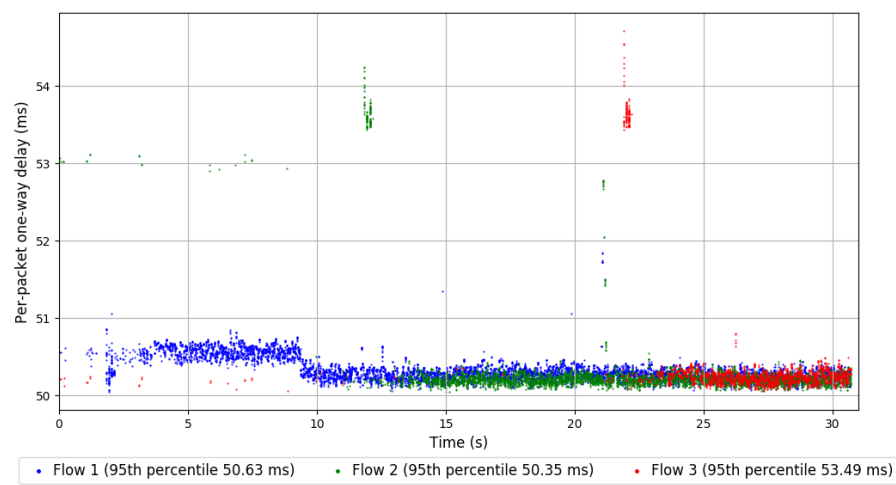
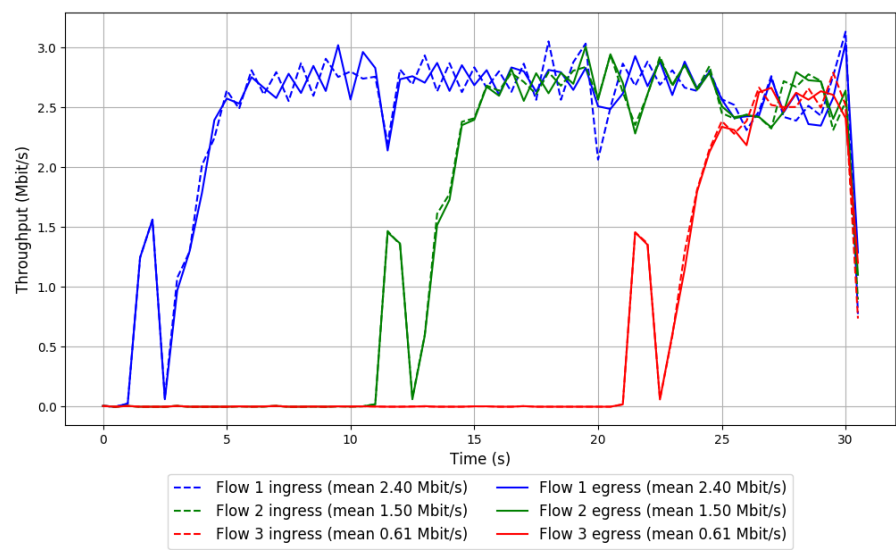
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-17 19:05:58

End at: 2018-01-17 19:06:28

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.393 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.041 ms

Loss rate: 0.00%

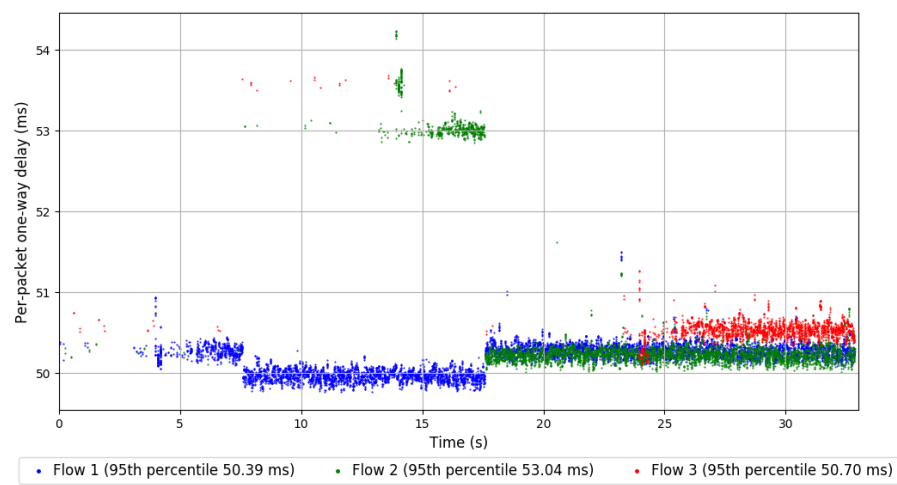
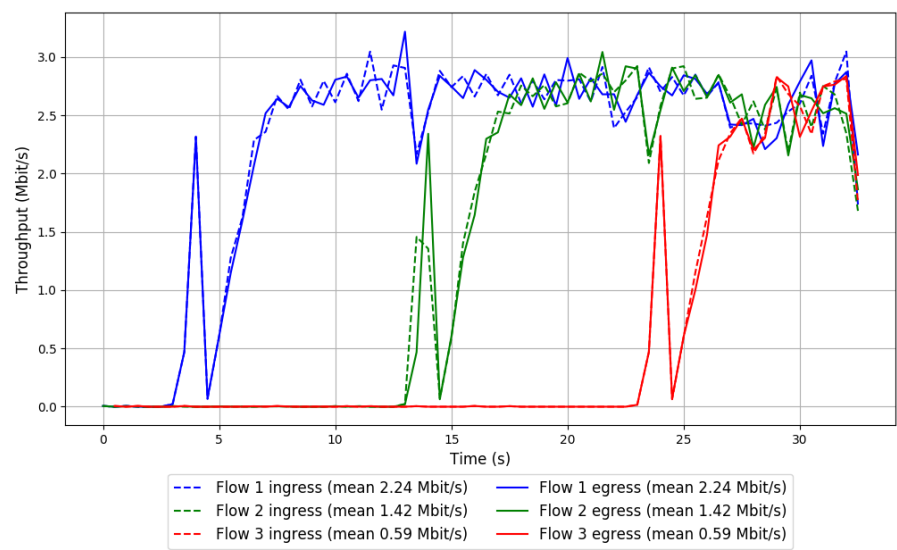
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.700 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-17 19:23:04

End at: 2018-01-17 19:23:34

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.468 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 0.00%

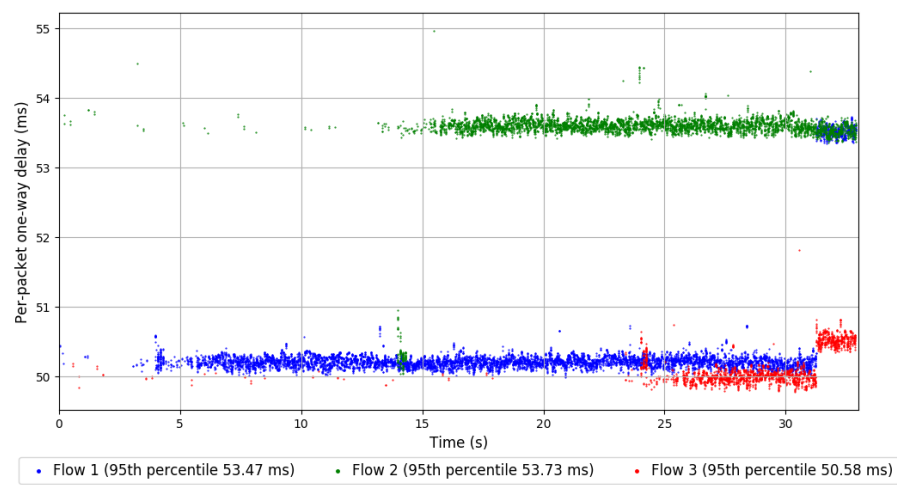
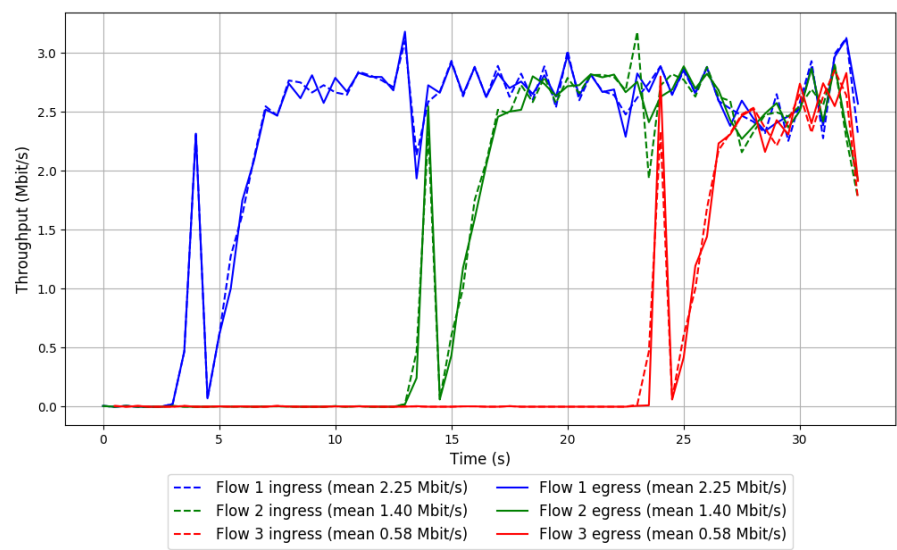
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.583 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-17 19:40:05

End at: 2018-01-17 19:40:35

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.611 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.624 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.569 ms

Loss rate: 0.00%

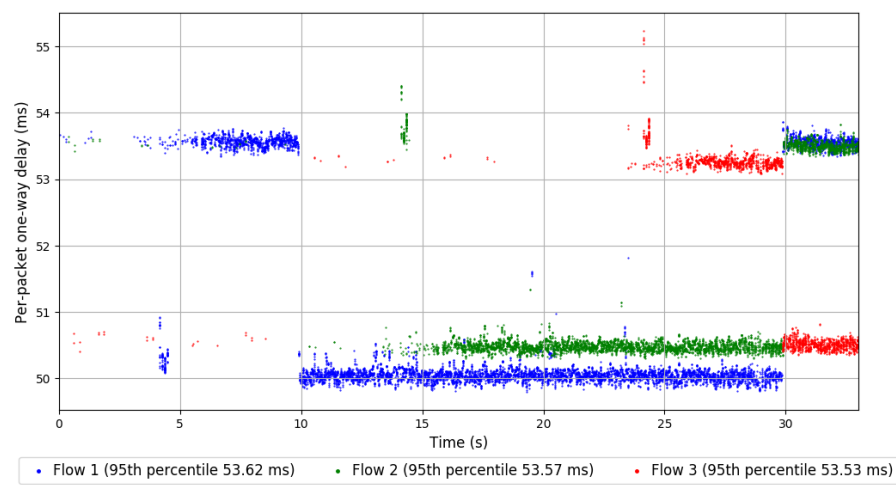
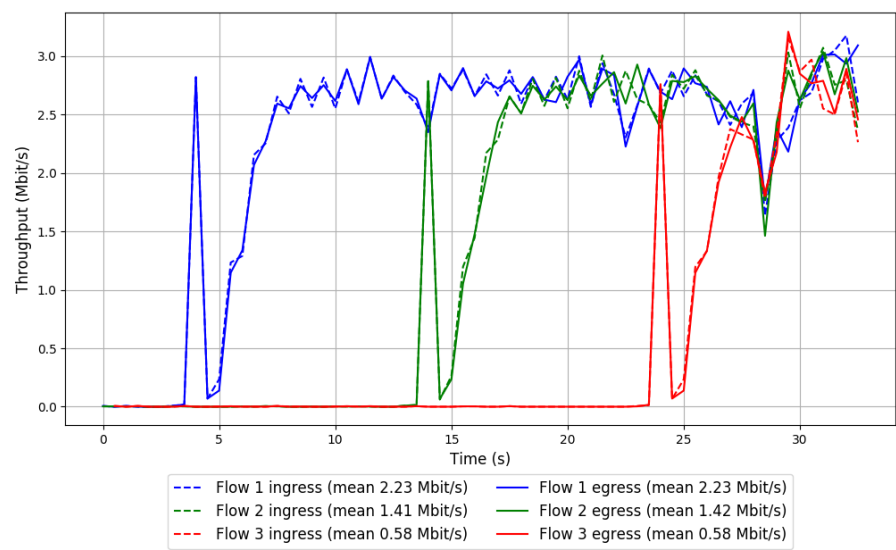
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-17 19:56:38

End at: 2018-01-17 19:57:08

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.416 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

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

Loss rate: 0.00%

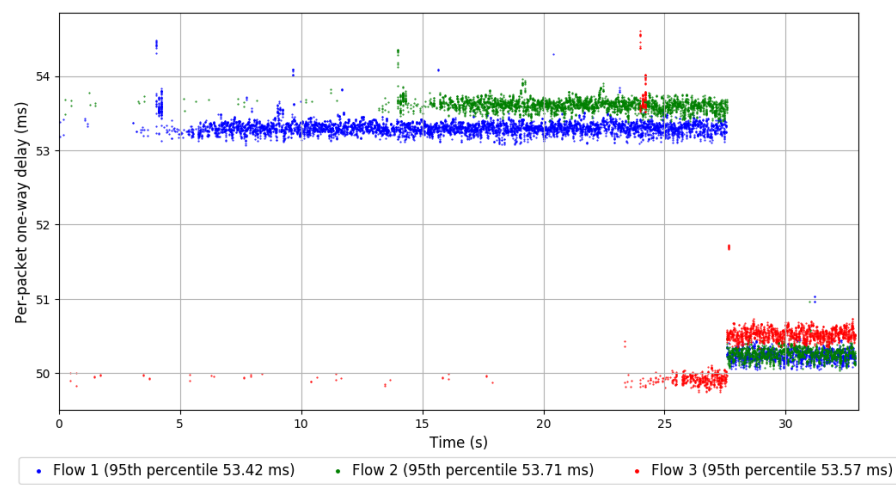
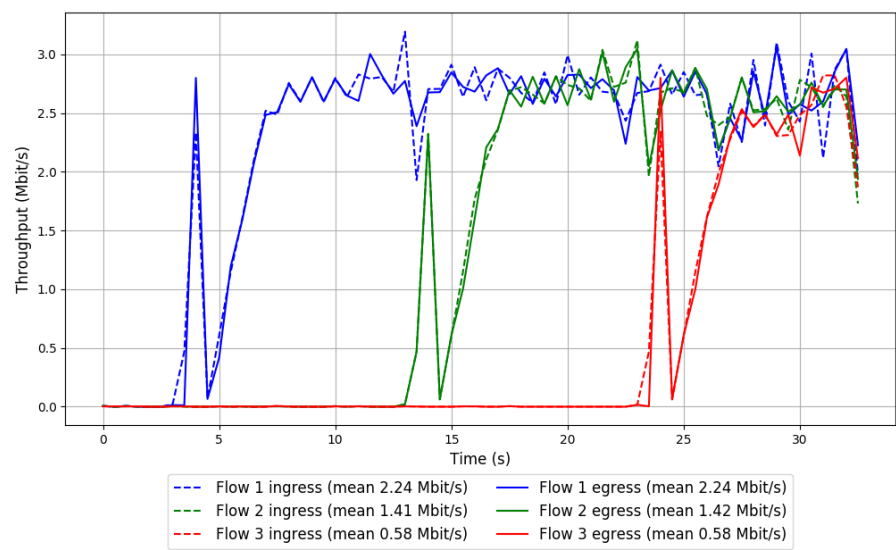
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-17 20:13:33

End at: 2018-01-17 20:14:03

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 53.691 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.220 ms

Loss rate: 0.00%

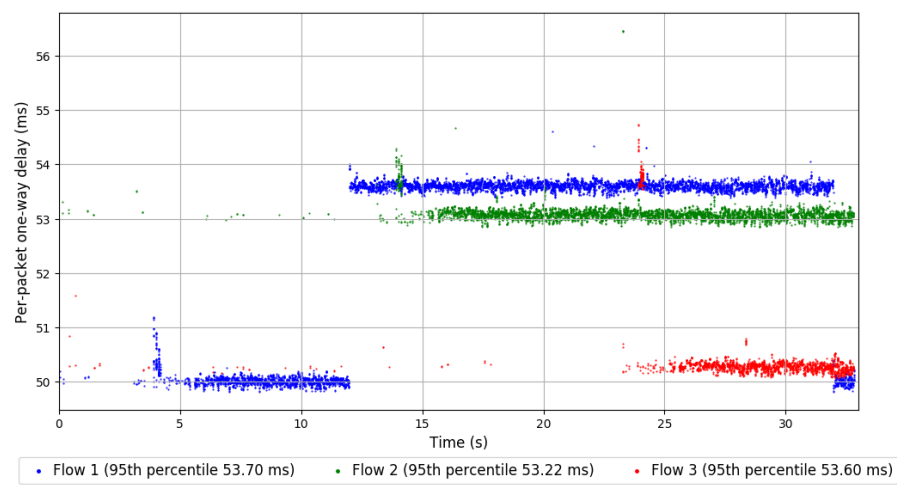
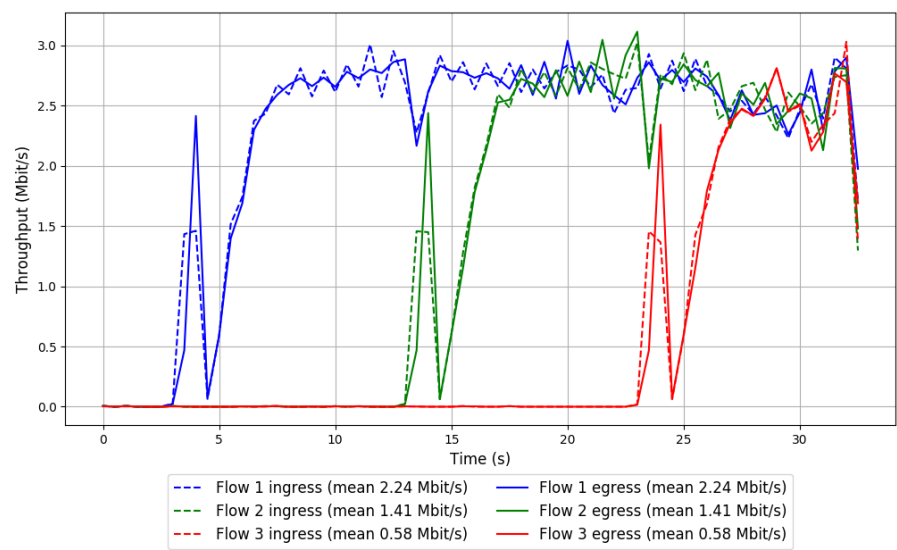
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.604 ms

Loss rate: 0.05%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-17 20:30:34

End at: 2018-01-17 20:31:04

Below is generated by plot.py at 2018-01-17 23:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.355 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.00%

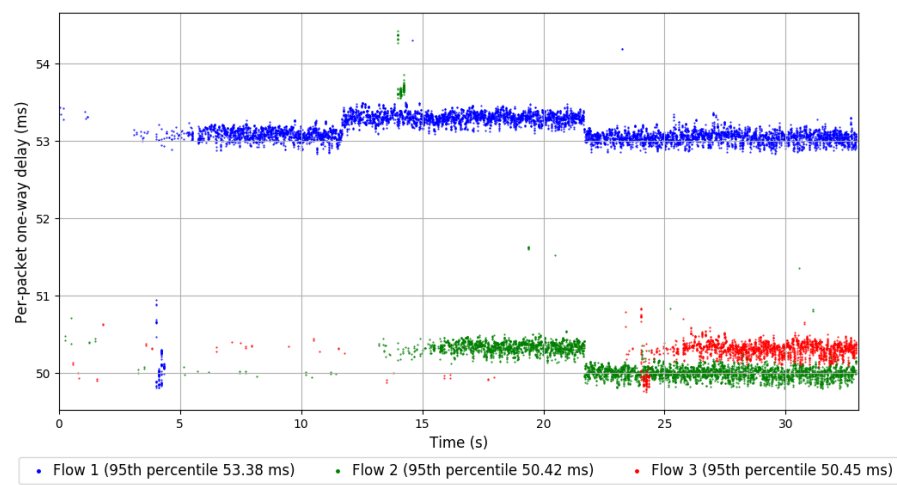
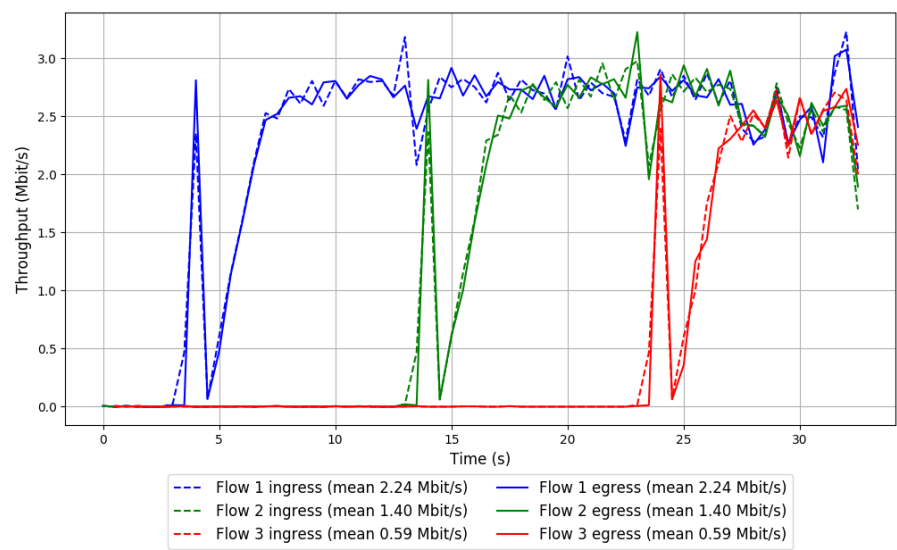
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.447 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-17 20:46:52

End at: 2018-01-17 20:47:22

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 53.396 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 53.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 53.404 ms

Loss rate: 0.00%

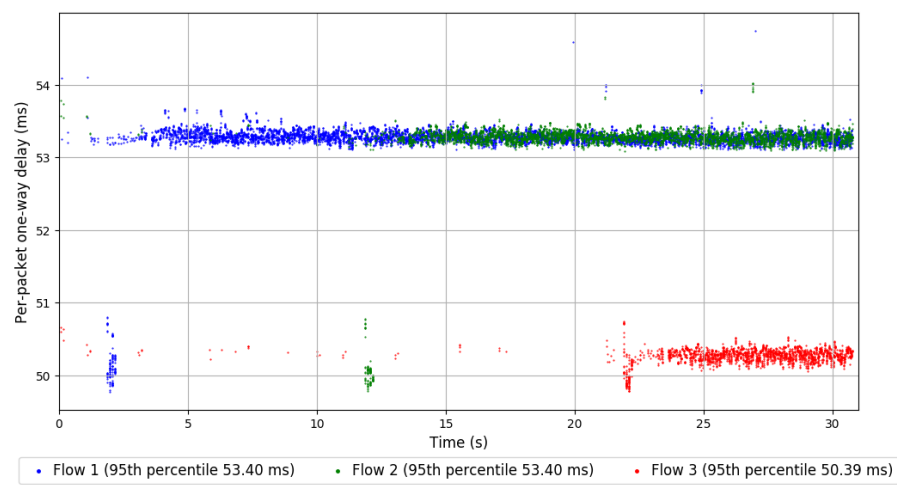
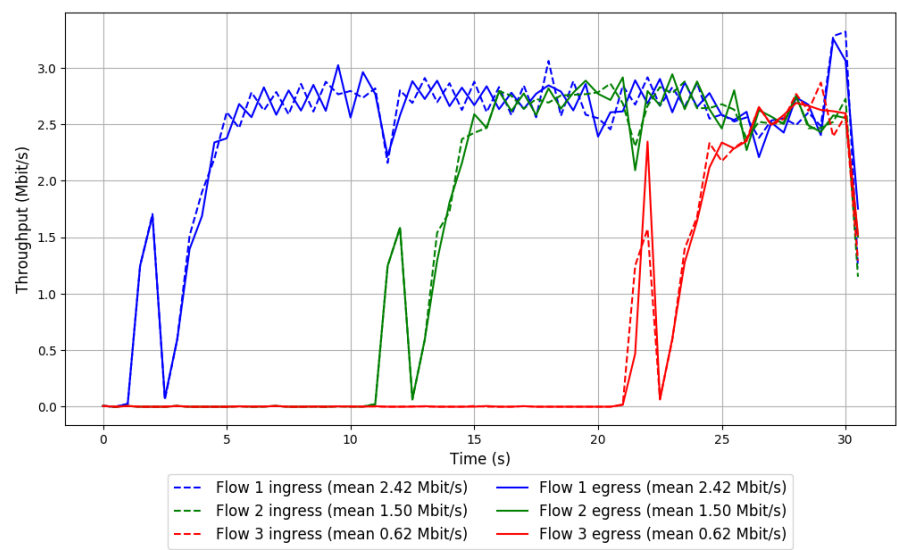
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 50.391 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-17 21:03:53

End at: 2018-01-17 21:04:23

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.822 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 0.00%

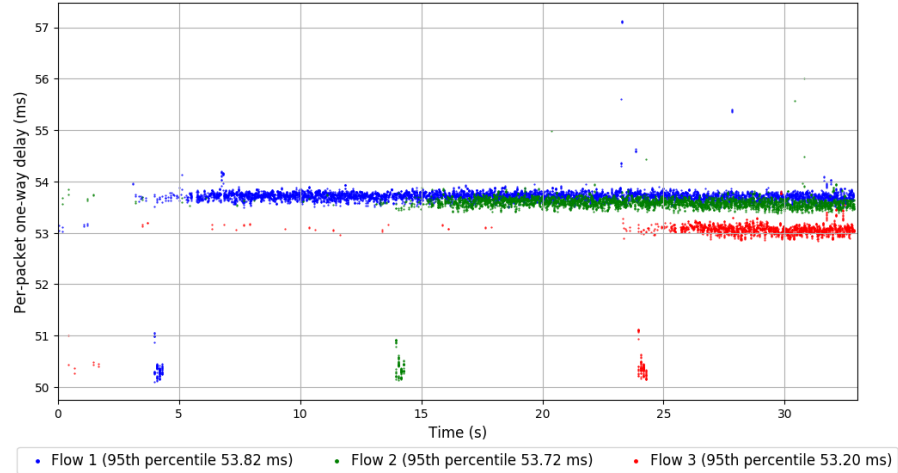
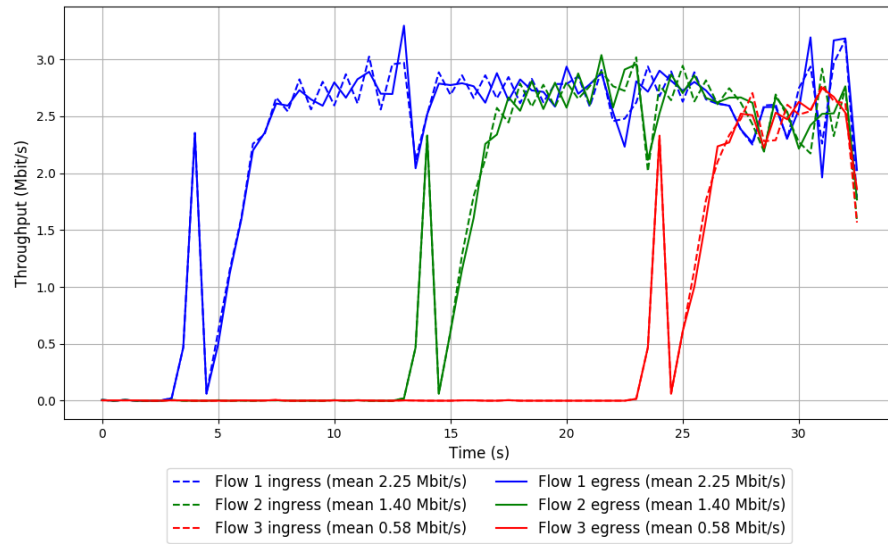
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.195 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

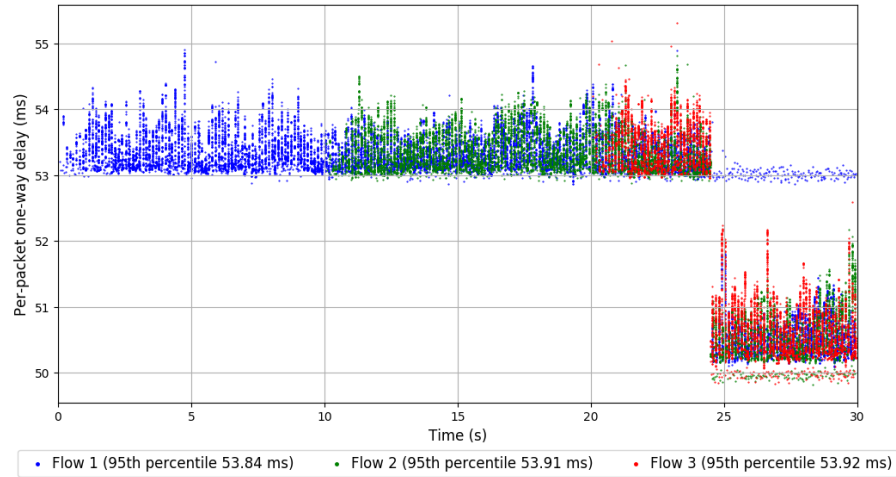
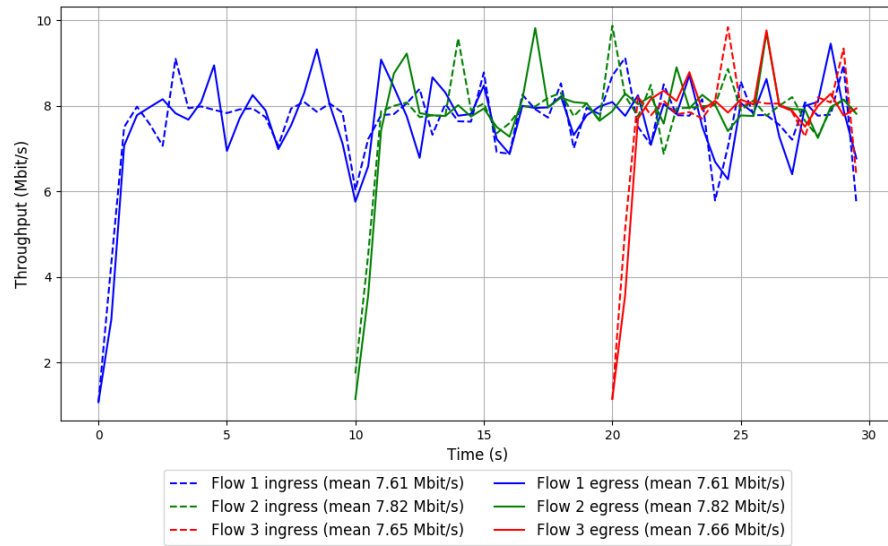


```
Run 1: Statistics of Sprout

Start at: 2018-01-17 18:29:18
End at: 2018-01-17 18:29:48

# Below is generated by plot.py at 2018-01-17 23:47:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.33 Mbit/s
95th percentile per-packet one-way delay: 53.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 53.917 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-17 18:46:14

End at: 2018-01-17 18:46:44

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.28 Mbit/s

95th percentile per-packet one-way delay: 53.651 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 53.710 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 53.402 ms

Loss rate: 0.09%

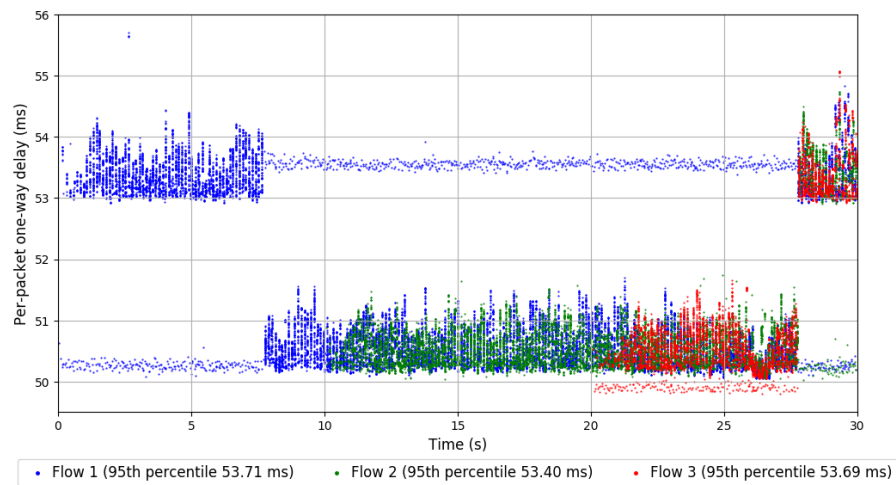
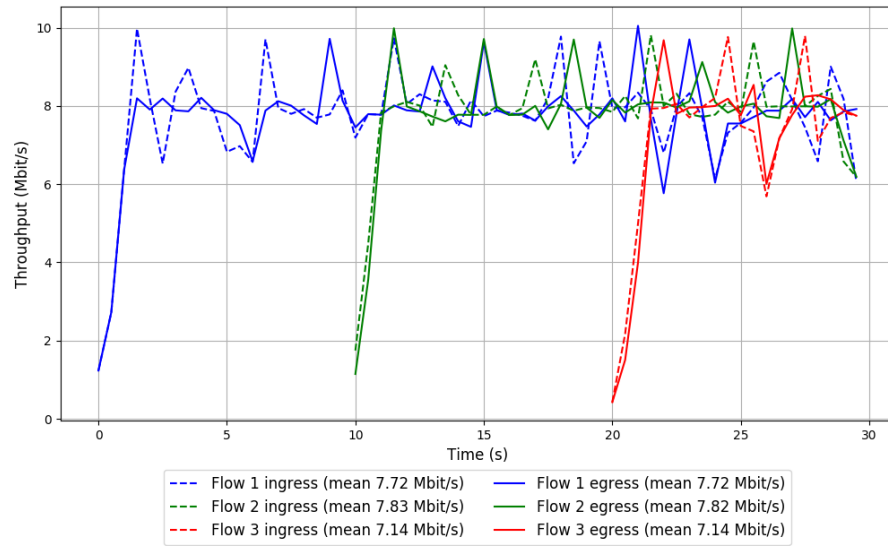
-- Flow 3:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 53.691 ms

Loss rate: 0.03%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-17 19:02:45

End at: 2018-01-17 19:03:15

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 54.334 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.461 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.66 Mbit/s

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

Loss rate: 0.00%

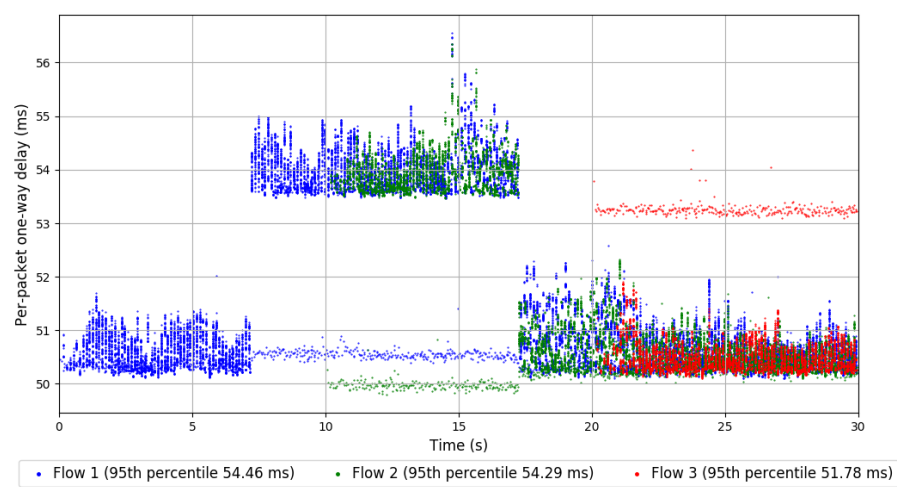
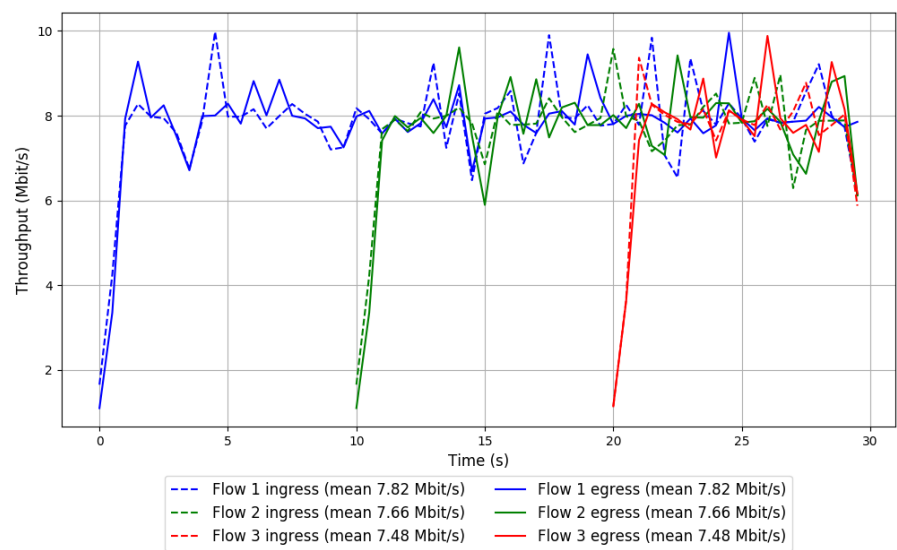
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 51.781 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-17 19:19:33

End at: 2018-01-17 19:20:03

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 54.521 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 7.81 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.689 ms

Loss rate: 0.00%

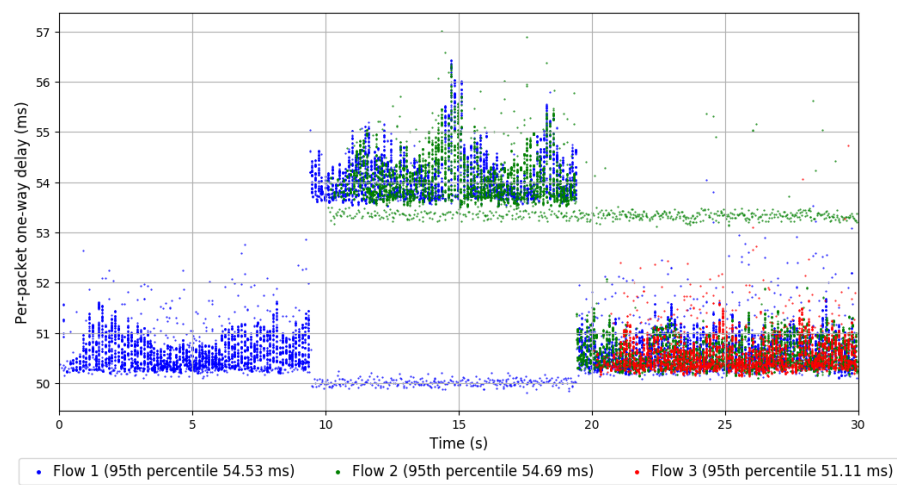
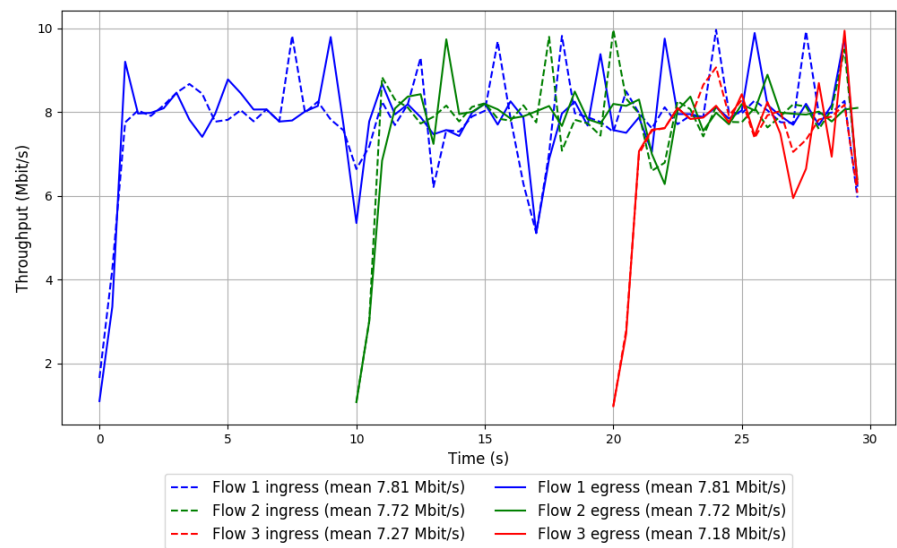
-- Flow 3:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 51.106 ms

Loss rate: 1.24%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-17 19:36:15

End at: 2018-01-17 19:36:45

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.61 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 53.901 ms

Loss rate: 0.00%

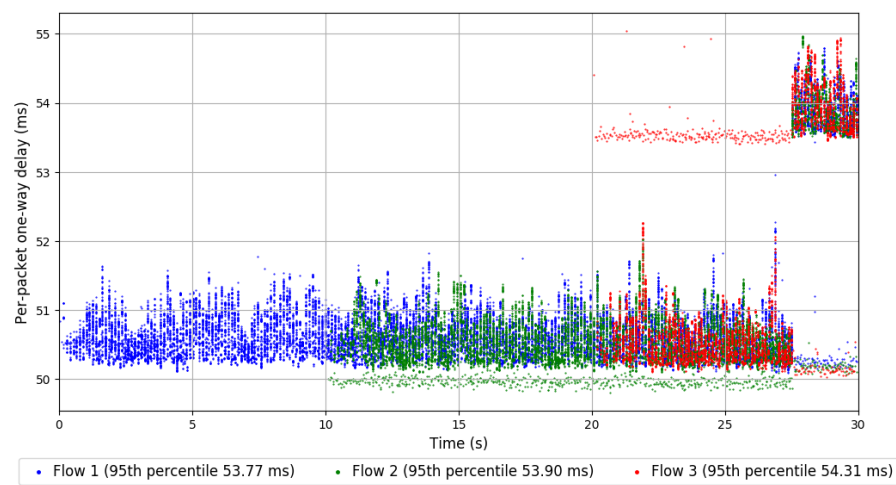
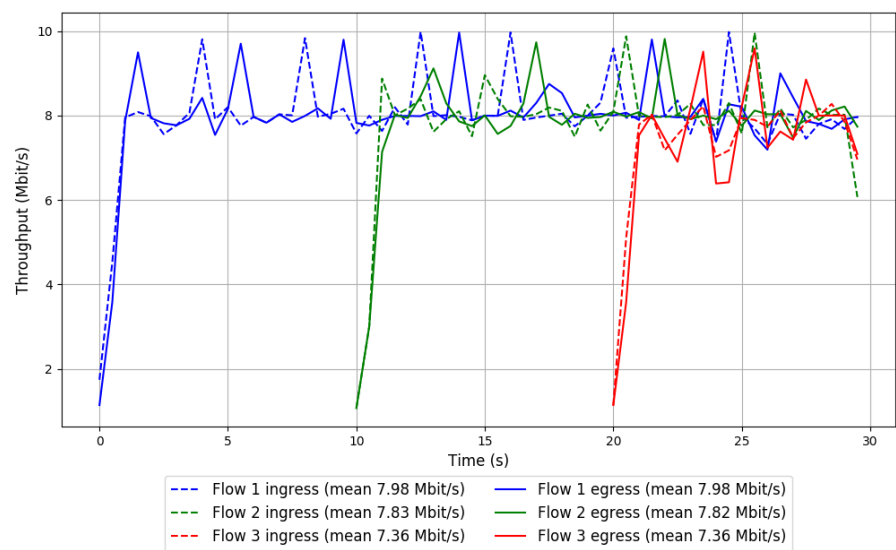
-- Flow 3:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.306 ms

Loss rate: 0.02%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-17 19:53:17

End at: 2018-01-17 19:53:47

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 54.347 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.450 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.00%

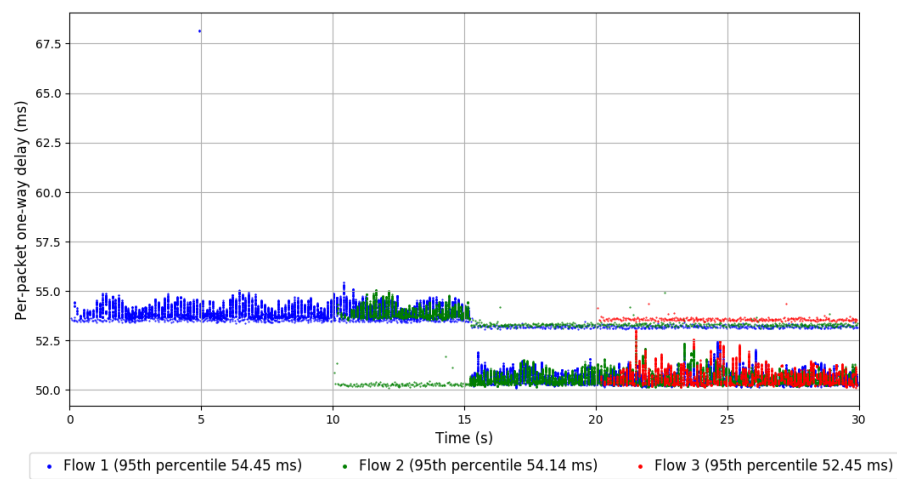
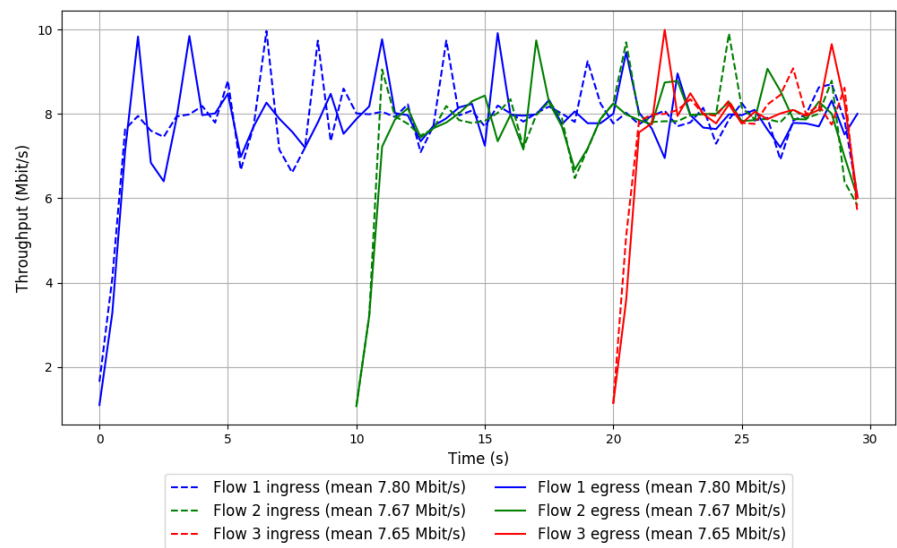
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 52.452 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-17 20:09:57

End at: 2018-01-17 20:10:27

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 54.465 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 54.466 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.436 ms

Loss rate: 0.00%

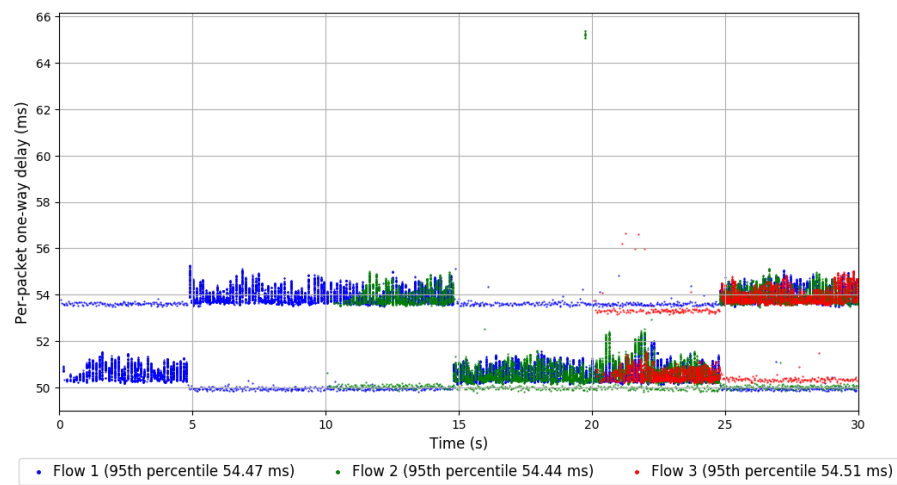
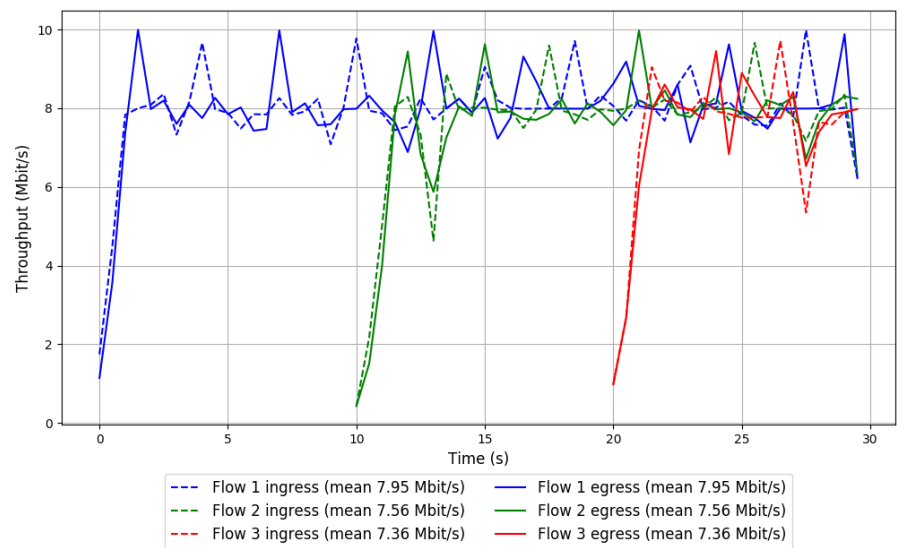
-- Flow 3:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.511 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-17 20:27:10

End at: 2018-01-17 20:27:40

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 54.377 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 54.436 ms

Loss rate: 0.02%

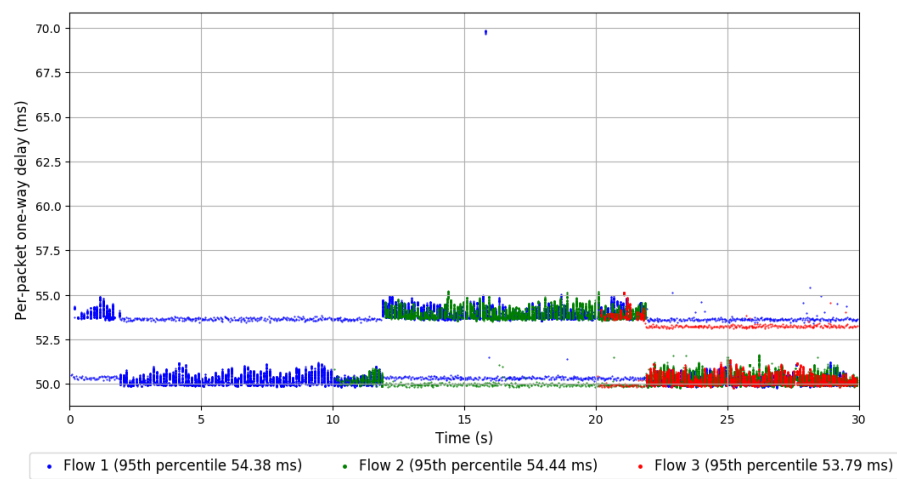
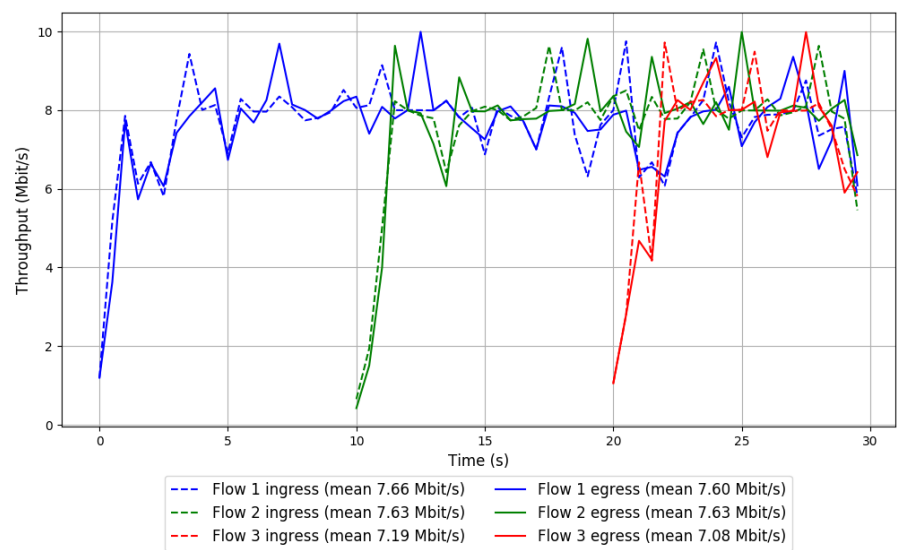
-- Flow 3:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 1.39%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-17 20:43:47

End at: 2018-01-17 20:44:17

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 54.577 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.466 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.653 ms

Loss rate: 0.02%

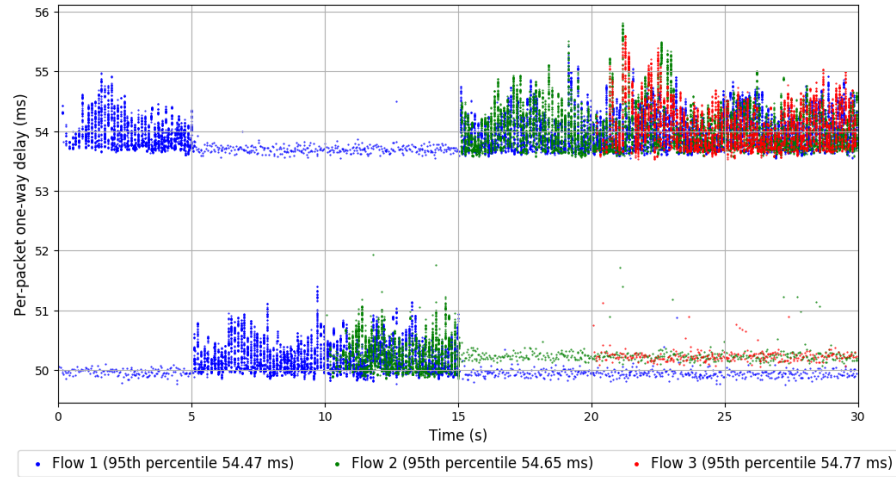
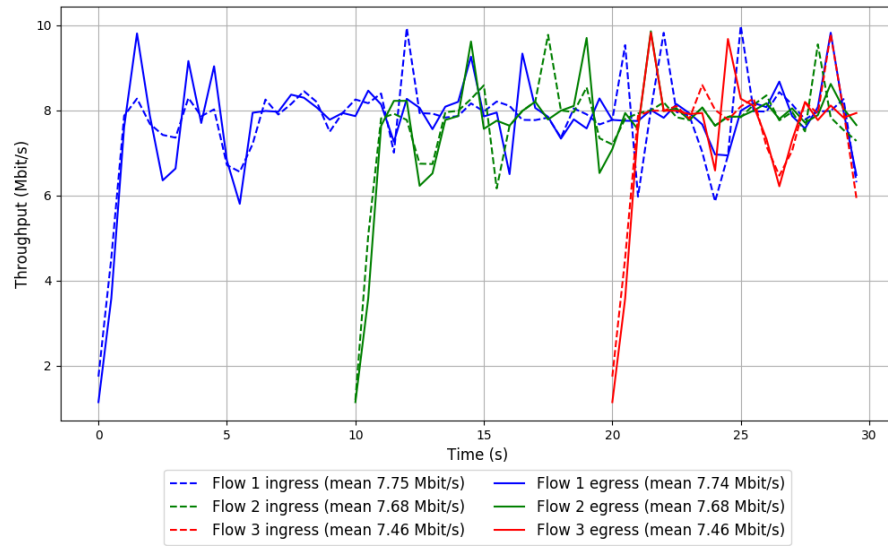
-- Flow 3:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 54.769 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-17 21:00:17

End at: 2018-01-17 21:00:47

Below is generated by plot.py at 2018-01-17 23:47:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 54.167 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.159 ms

Loss rate: 0.00%

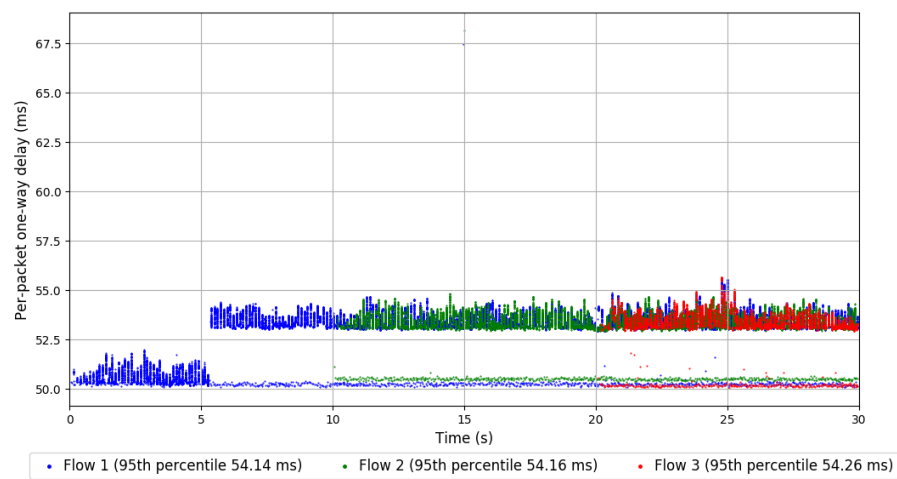
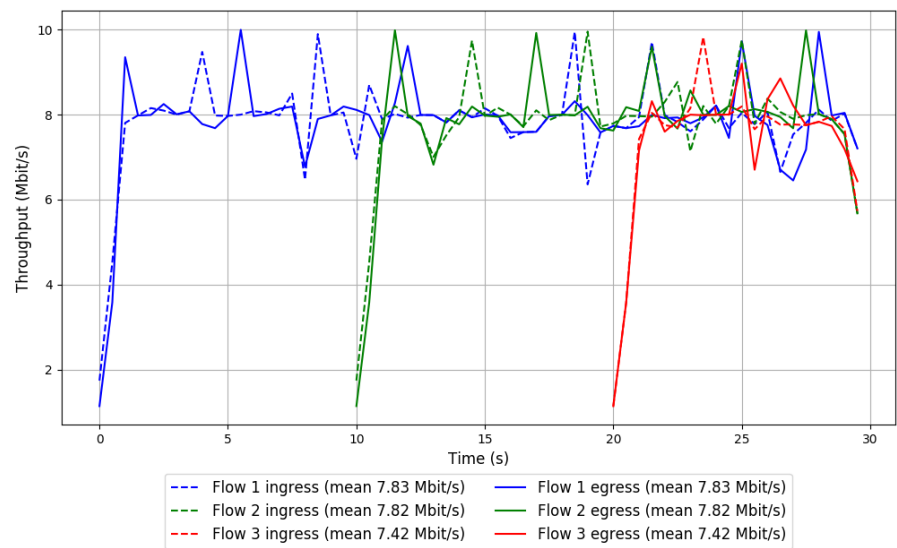
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.255 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

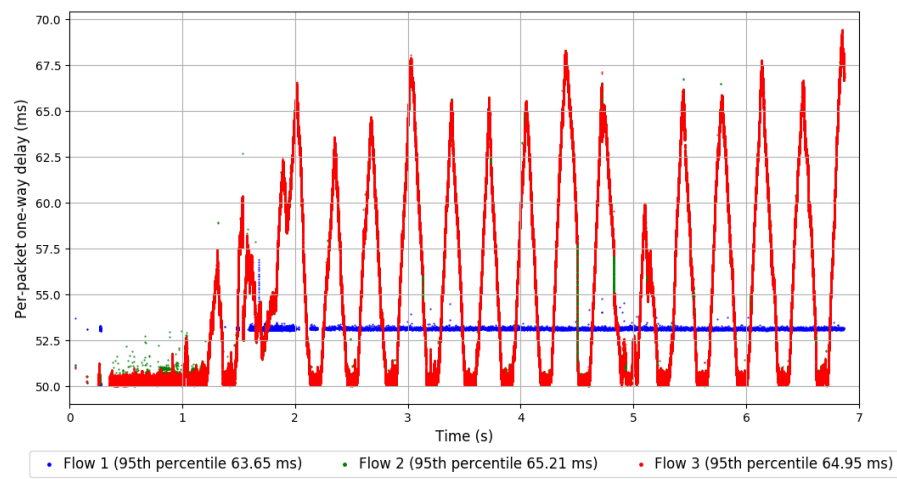
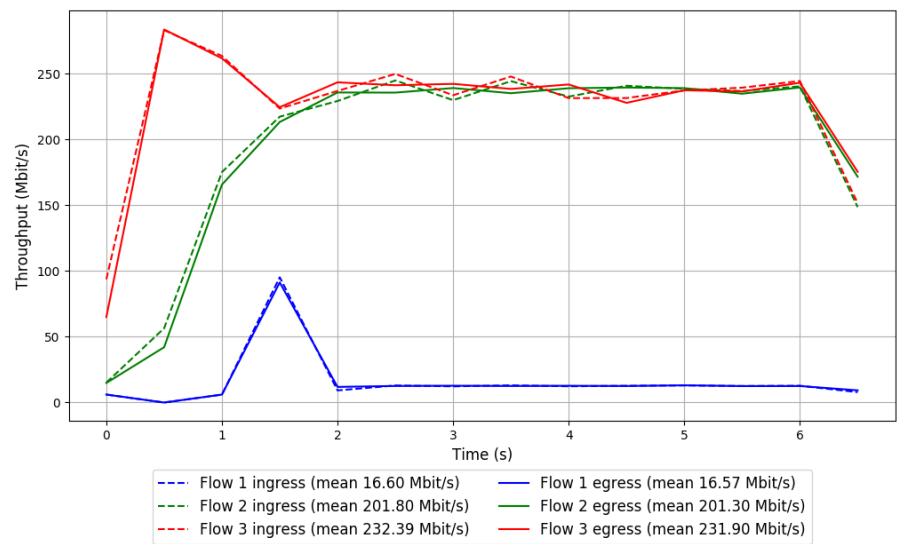


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-17 18:31:54

End at: 2018-01-17 18:32:24

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

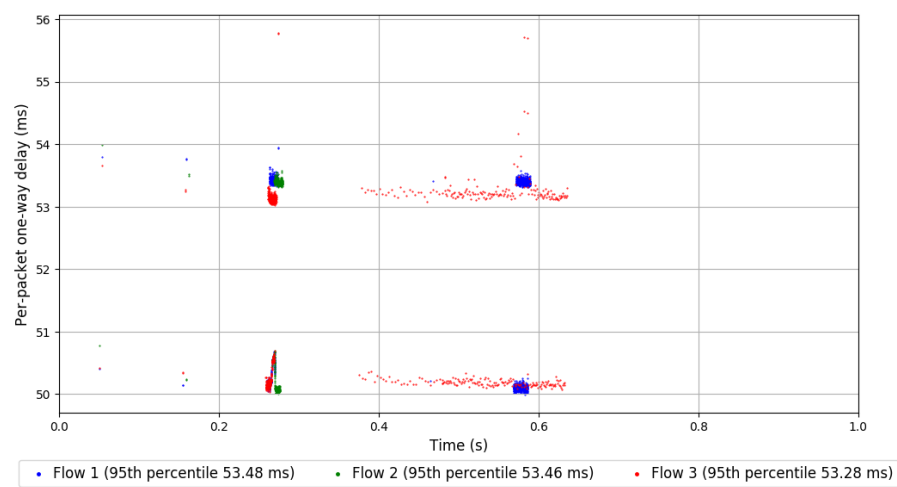
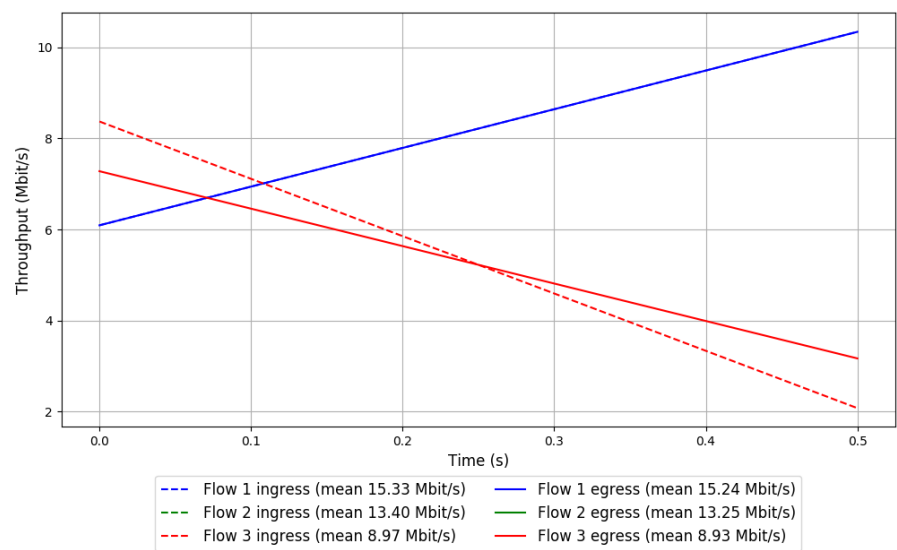


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-17 18:48:44

End at: 2018-01-17 18:49:14

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

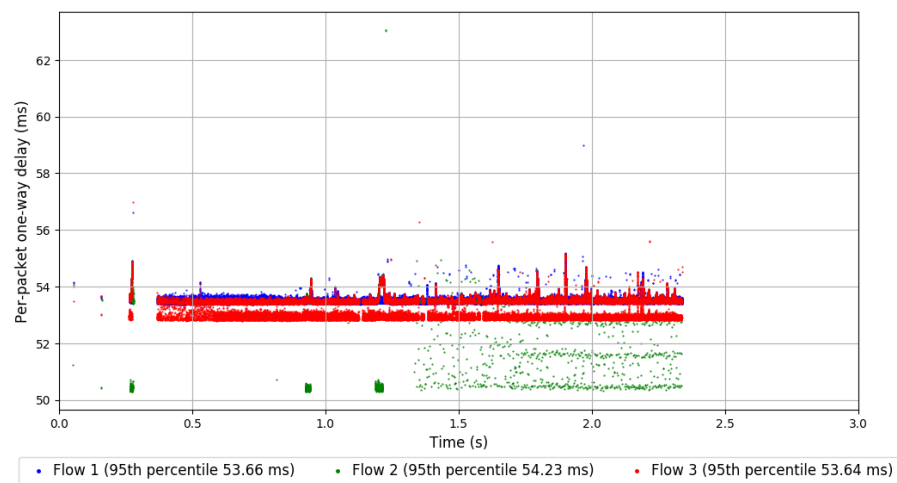
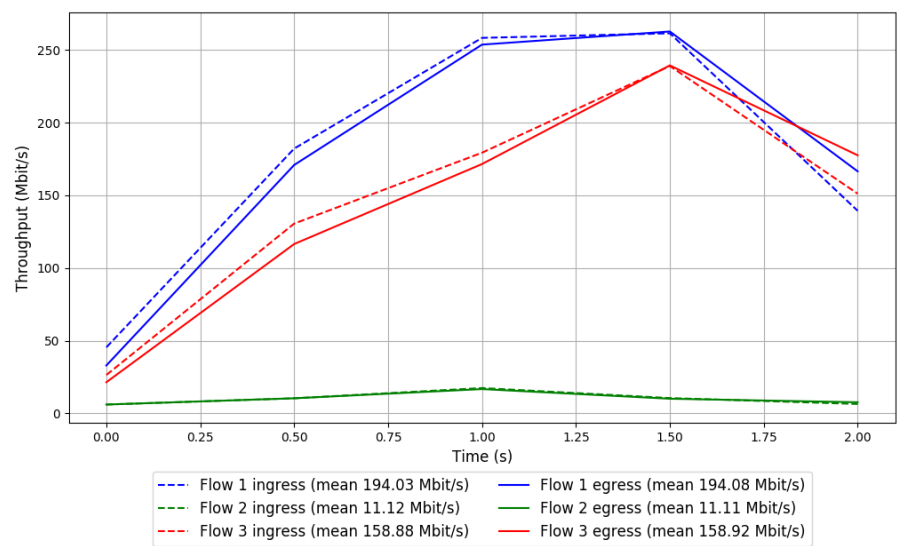


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-17 19:05:15

End at: 2018-01-17 19:05:45

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

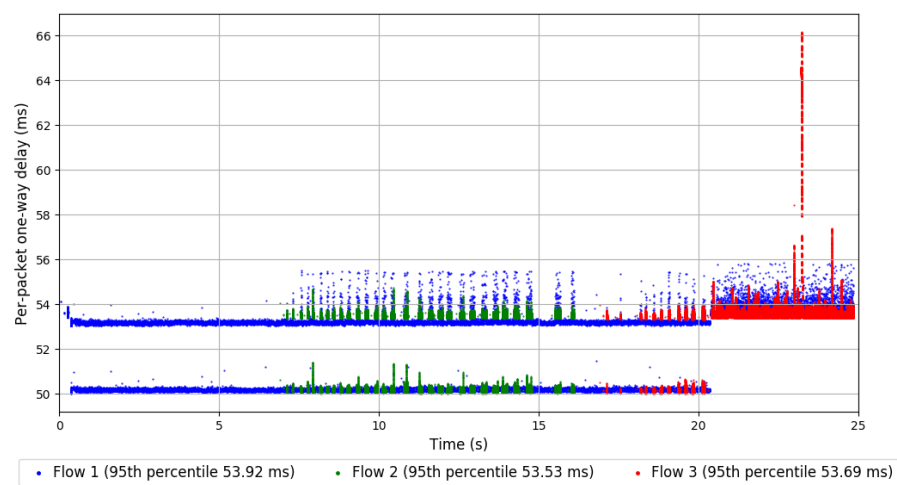
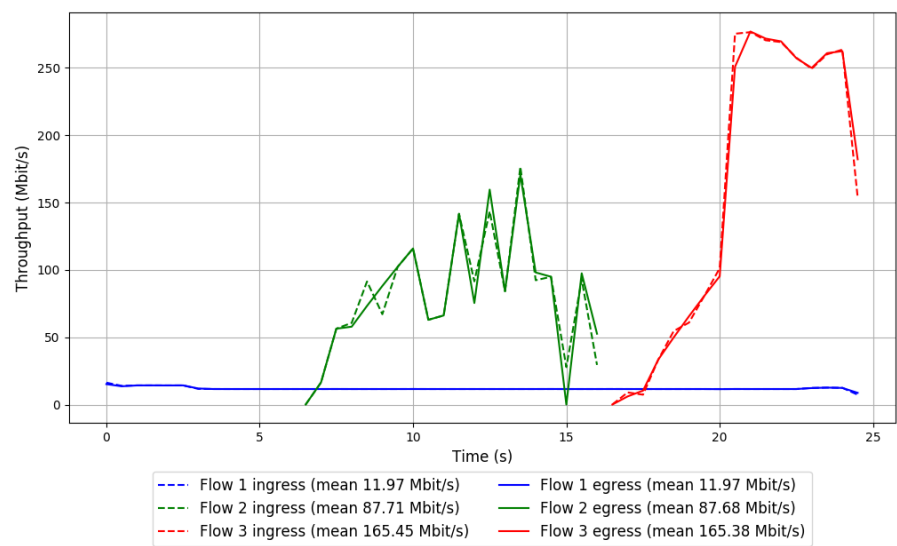


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-17 19:22:17
End at: 2018-01-17 19:22:47

# Below is generated by plot.py at 2018-01-17 23:47:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 87.68 Mbit/s
95th percentile per-packet one-way delay: 53.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.38 Mbit/s
95th percentile per-packet one-way delay: 53.694 ms
Loss rate: 0.00%
```

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

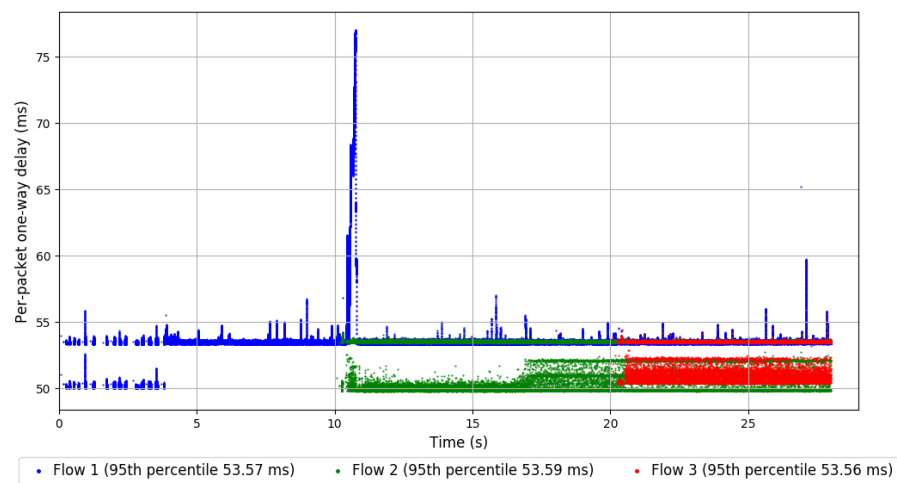
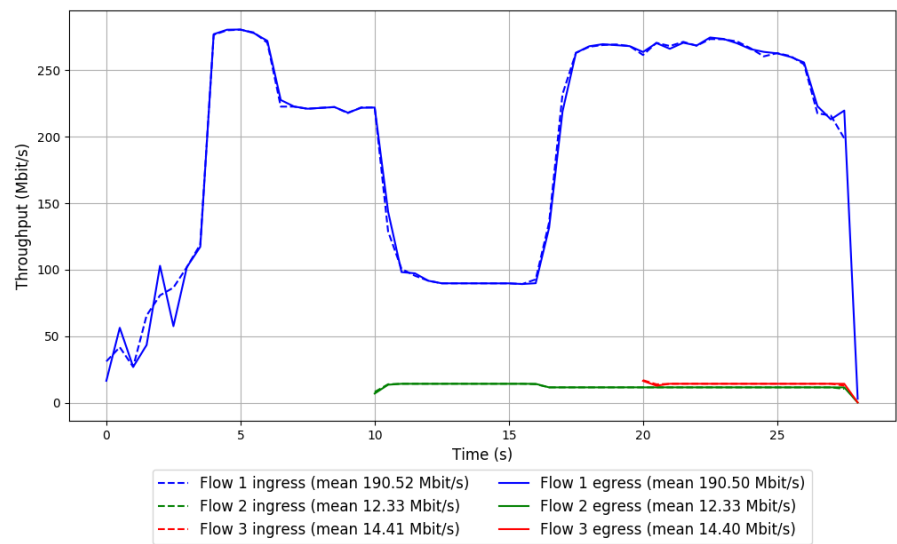


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-17 19:39:06
End at: 2018-01-17 19:39:36

# Below is generated by plot.py at 2018-01-17 23:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 202.50 Mbit/s
95th percentile per-packet one-way delay: 53.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.50 Mbit/s
95th percentile per-packet one-way delay: 53.568 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.40 Mbit/s
95th percentile per-packet one-way delay: 53.564 ms
Loss rate: 0.00%
```


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

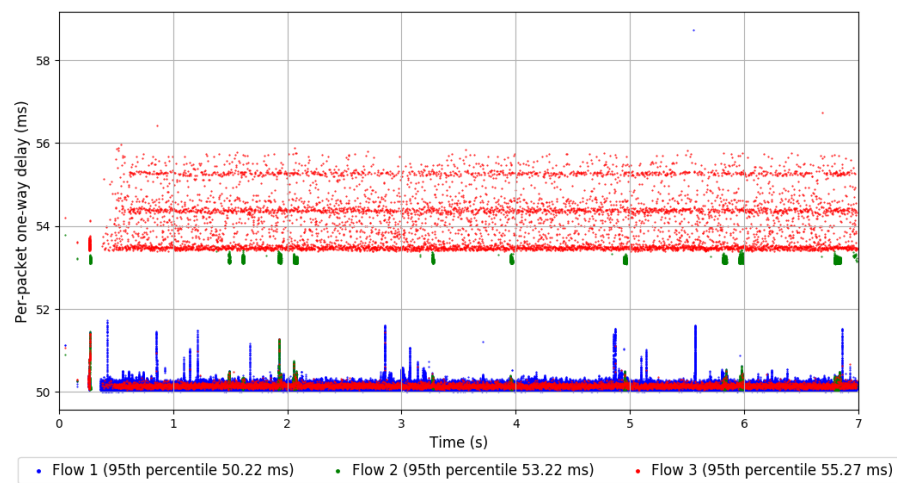
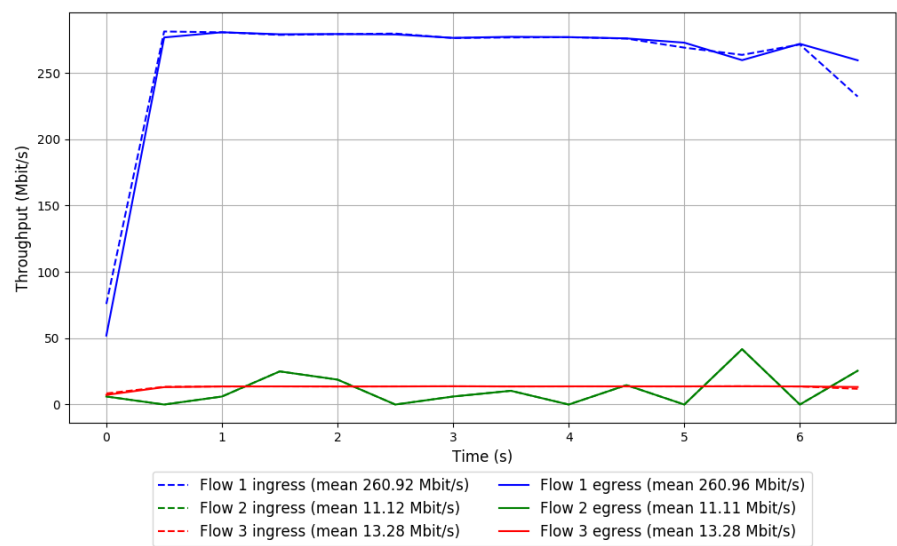


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-17 19:55:50

End at: 2018-01-17 19:56:20

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

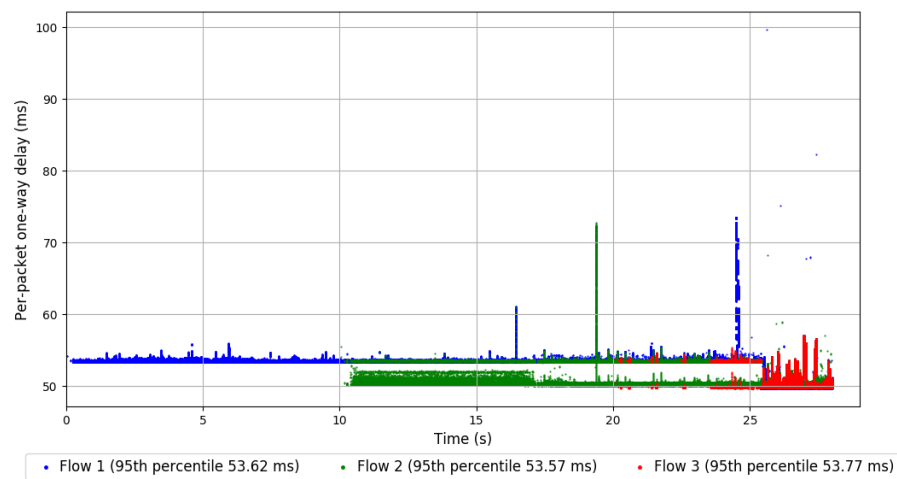
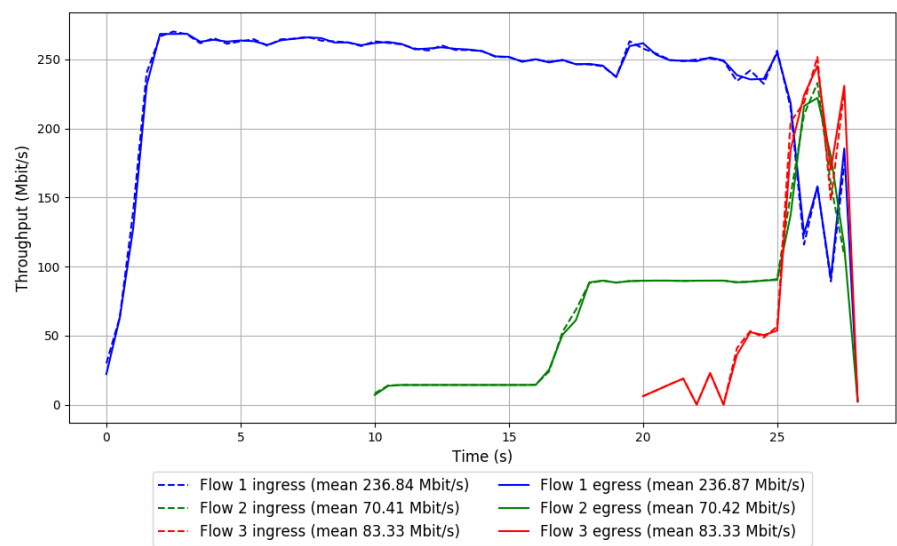


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-17 20:12:25
End at: 2018-01-17 20:12:55

# Below is generated by plot.py at 2018-01-17 23:52:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.74 Mbit/s
95th percentile per-packet one-way delay: 53.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.87 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.42 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.33 Mbit/s
95th percentile per-packet one-way delay: 53.768 ms
Loss rate: 0.00%
```

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

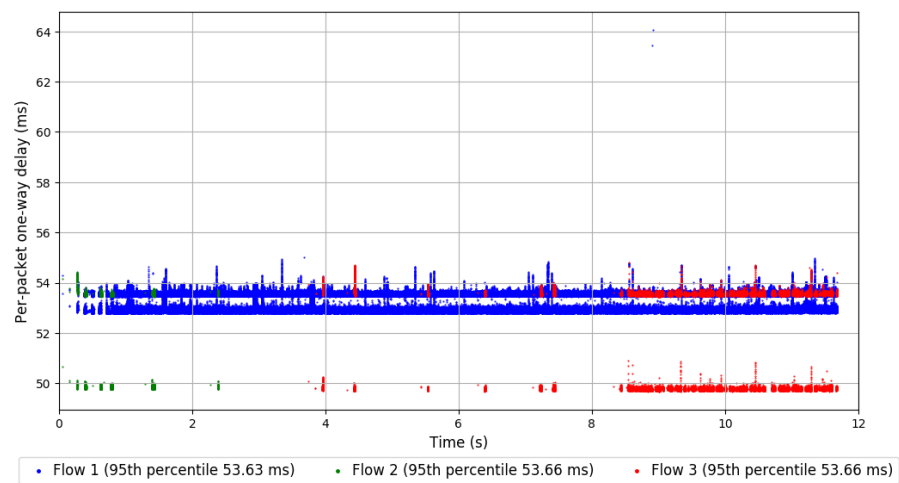
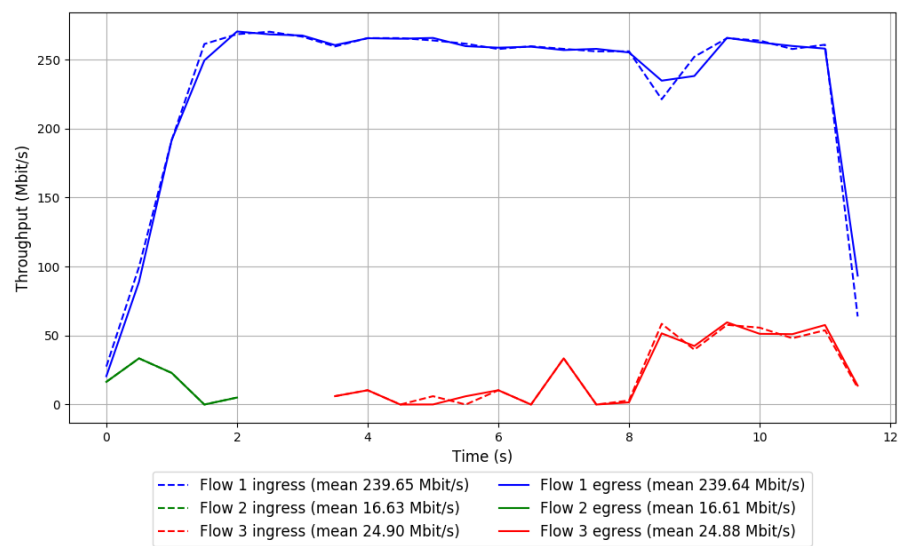


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-17 20:29:43

End at: 2018-01-17 20:30:13

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-17 20:46:00

End at: 2018-01-17 20:46:30

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.65 Mbit/s

95th percentile per-packet one-way delay: 53.635 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.46 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

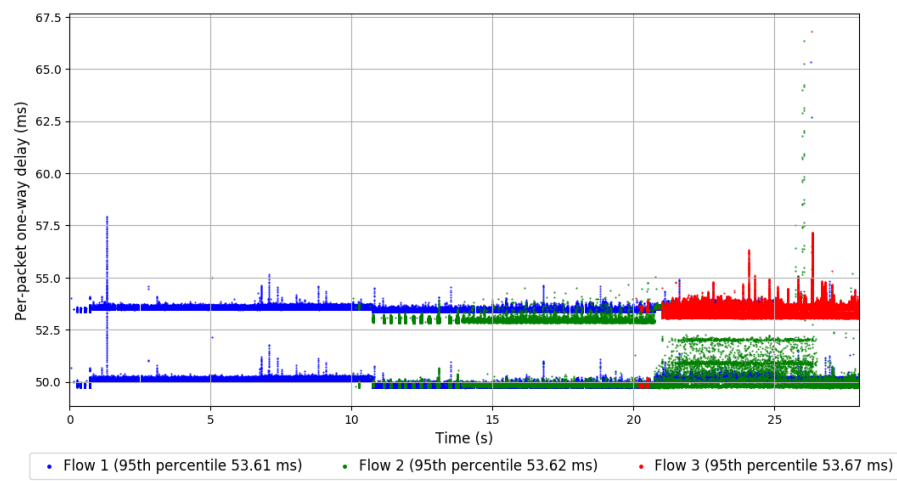
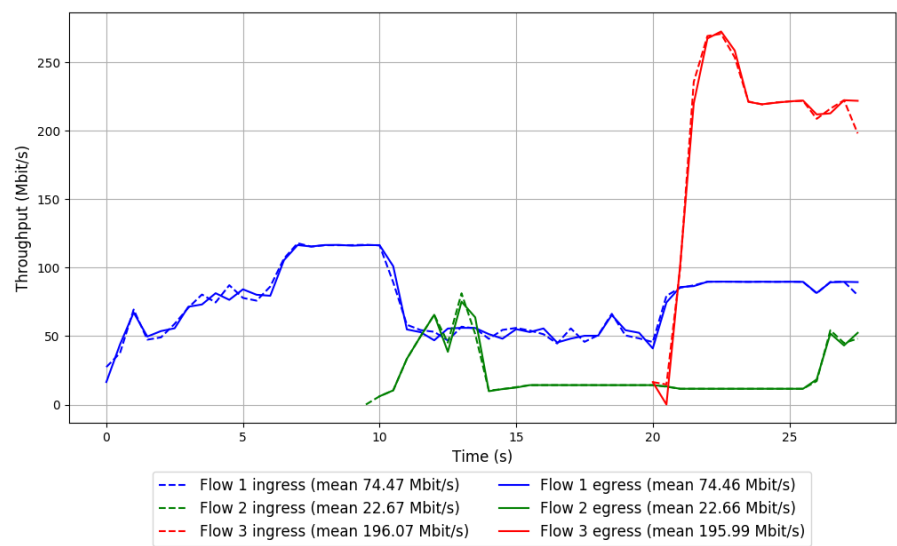
-- Flow 3:

Average throughput: 195.99 Mbit/s

95th percentile per-packet one-way delay: 53.674 ms

Loss rate: 0.00%

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

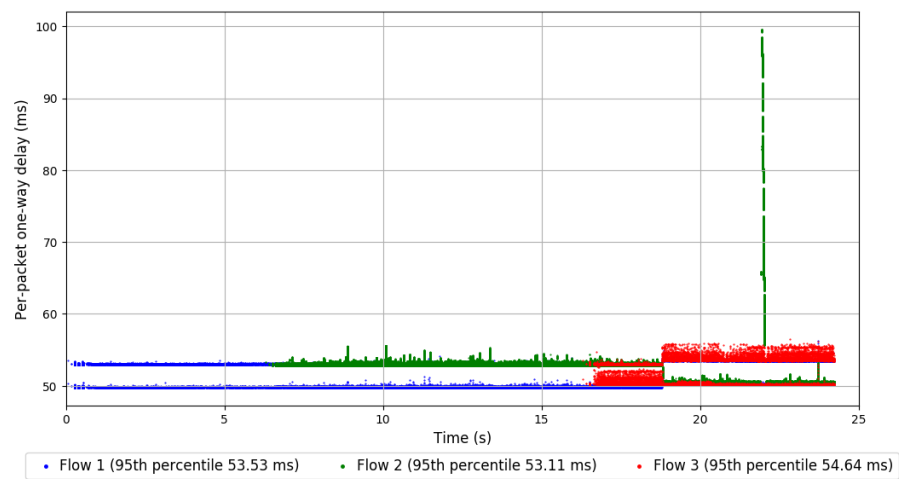


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-17 21:02:58
End at: 2018-01-17 21:03:28

# Below is generated by plot.py at 2018-01-17 23:52:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.95 Mbit/s
95th percentile per-packet one-way delay: 53.160 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 53.528 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 243.54 Mbit/s
95th percentile per-packet one-way delay: 53.114 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 54.644 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-17 18:25:04

End at: 2018-01-17 18:25:34

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.03 Mbit/s

95th percentile per-packet one-way delay: 53.513 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 53.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 53.456 ms

Loss rate: 0.00%

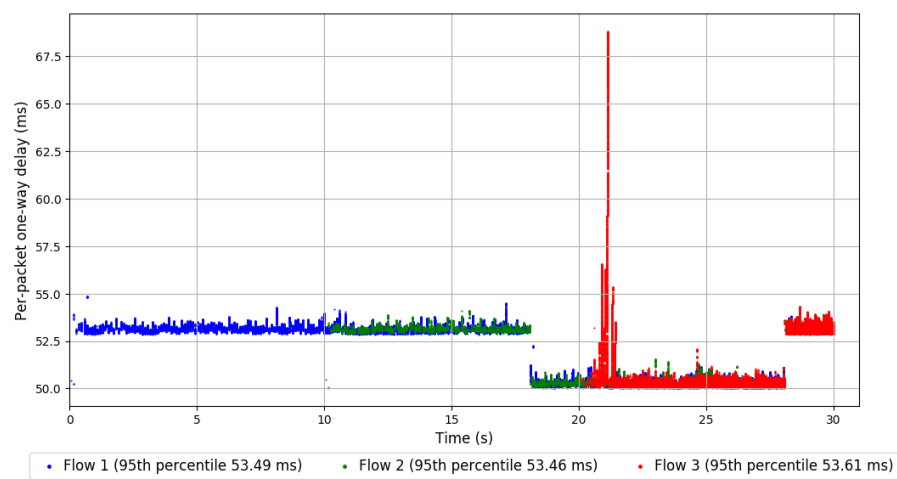
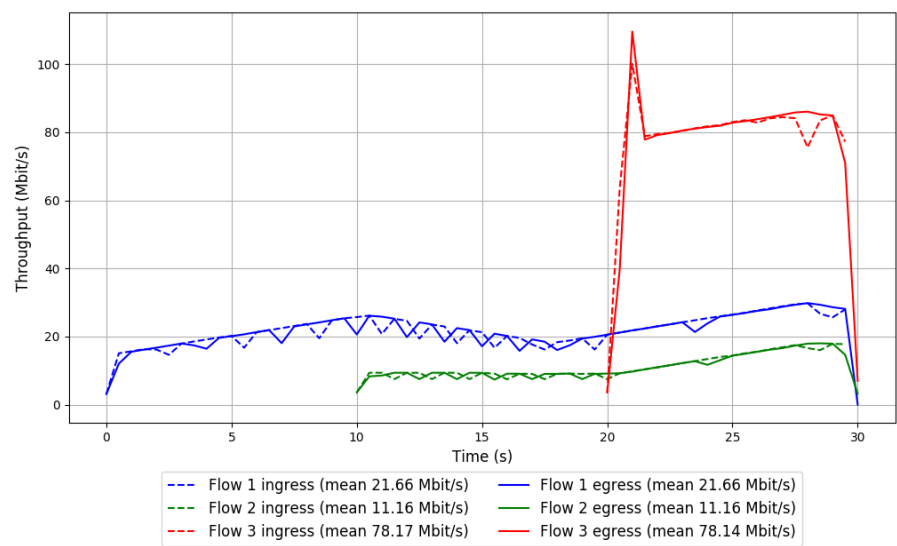
-- Flow 3:

Average throughput: 78.14 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-17 18:42:02

End at: 2018-01-17 18:42:32

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.39 Mbit/s

95th percentile per-packet one-way delay: 53.038 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 53.364 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 50.894 ms

Loss rate: 0.00%

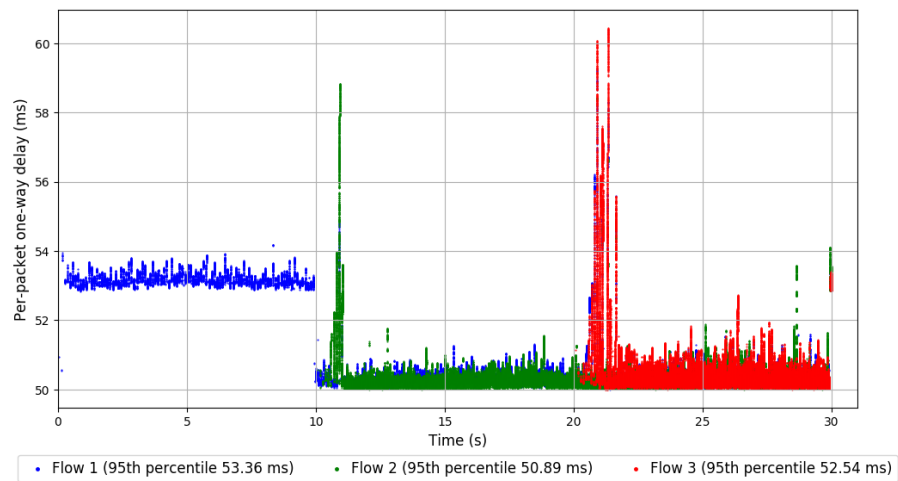
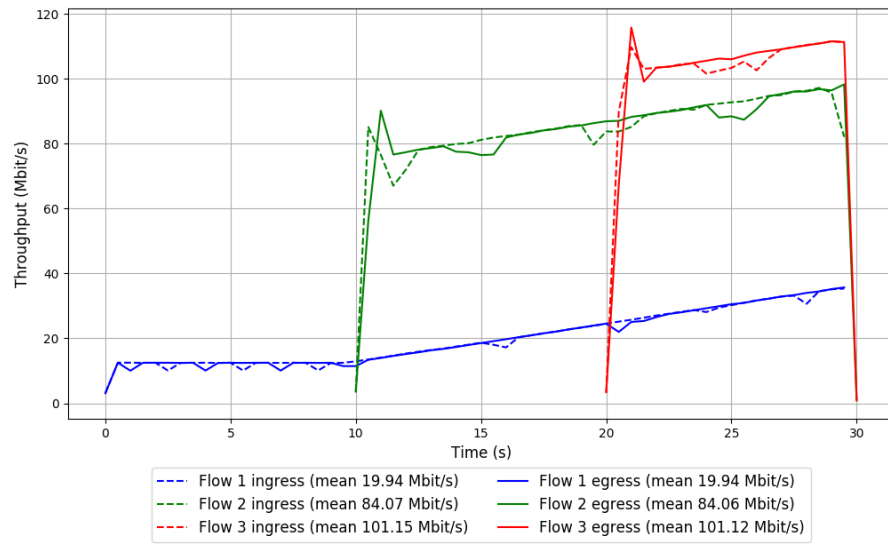
-- Flow 3:

Average throughput: 101.12 Mbit/s

95th percentile per-packet one-way delay: 52.538 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-17 18:58:35

End at: 2018-01-17 18:59:05

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.08 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.00%

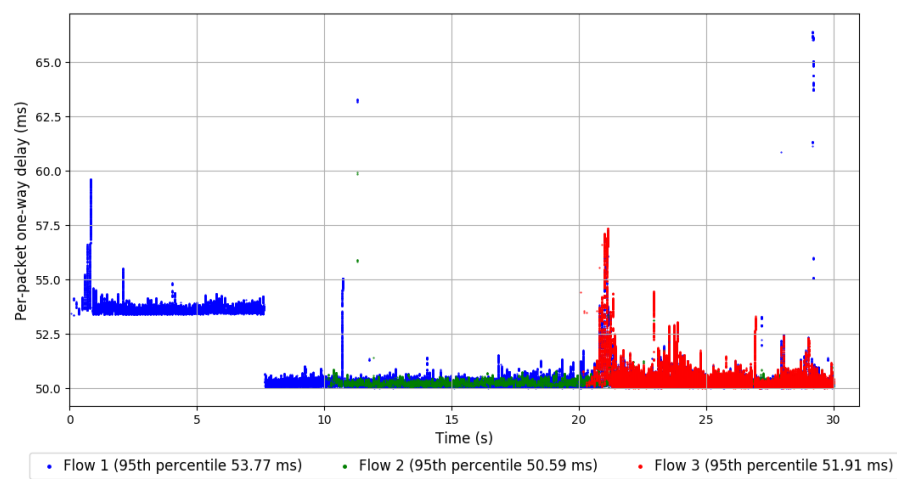
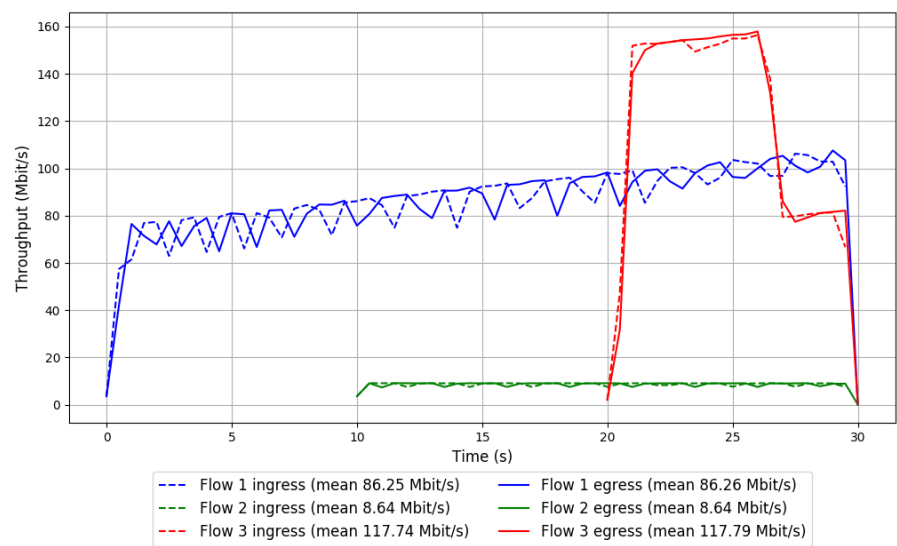
-- Flow 3:

Average throughput: 117.79 Mbit/s

95th percentile per-packet one-way delay: 51.912 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-17 19:15:10

End at: 2018-01-17 19:15:40

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 54.089 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.70 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 53.851 ms

Loss rate: 0.04%

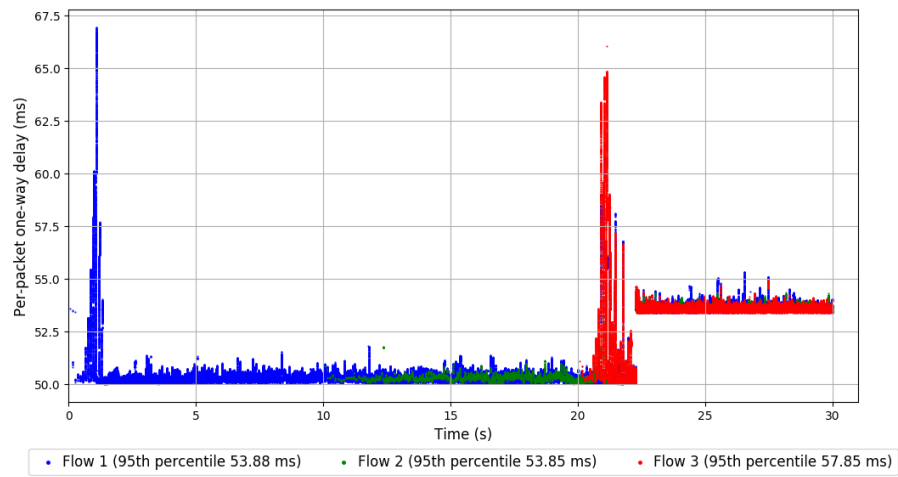
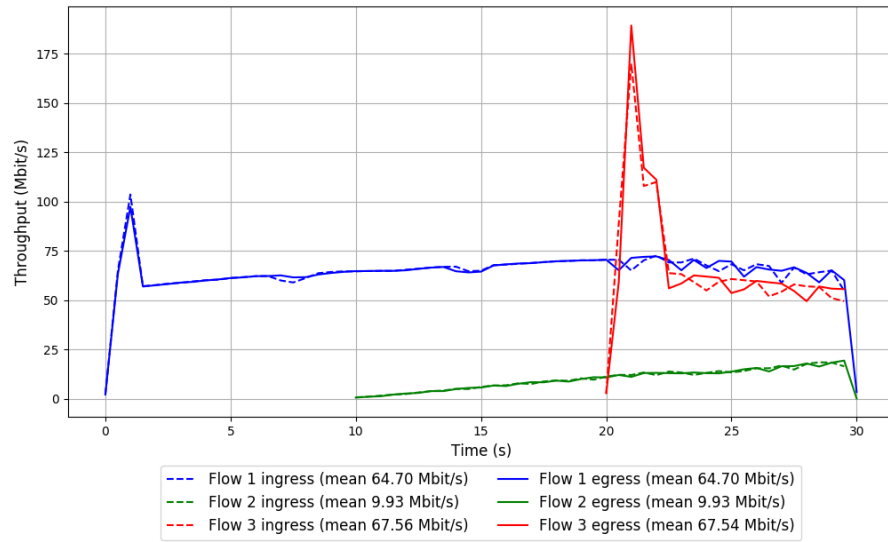
-- Flow 3:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 57.849 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-17 19:32:20

End at: 2018-01-17 19:32:50

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.63 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.57 Mbit/s

95th percentile per-packet one-way delay: 54.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.77 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.00%

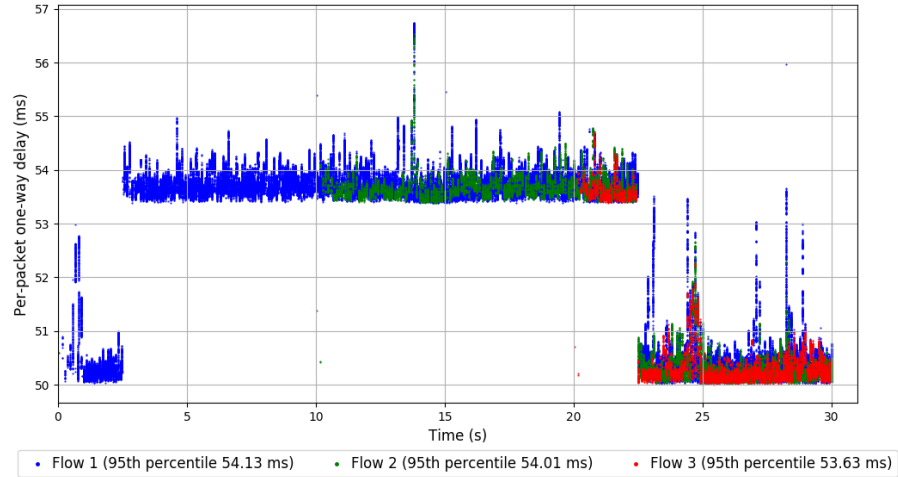
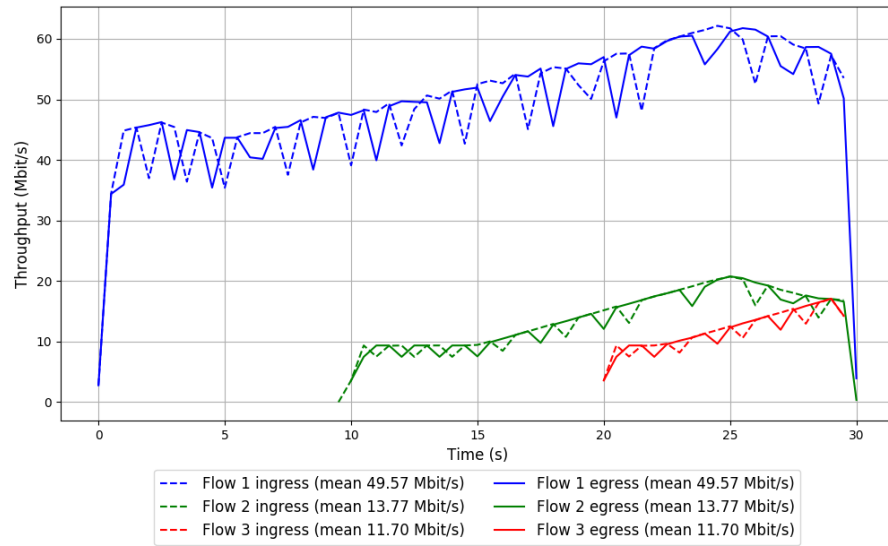
-- Flow 3:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 53.631 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-17 19:49:01

End at: 2018-01-17 19:49:31

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.43 Mbit/s

95th percentile per-packet one-way delay: 52.307 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.36 Mbit/s

95th percentile per-packet one-way delay: 51.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.94 Mbit/s

95th percentile per-packet one-way delay: 52.146 ms

Loss rate: 0.00%

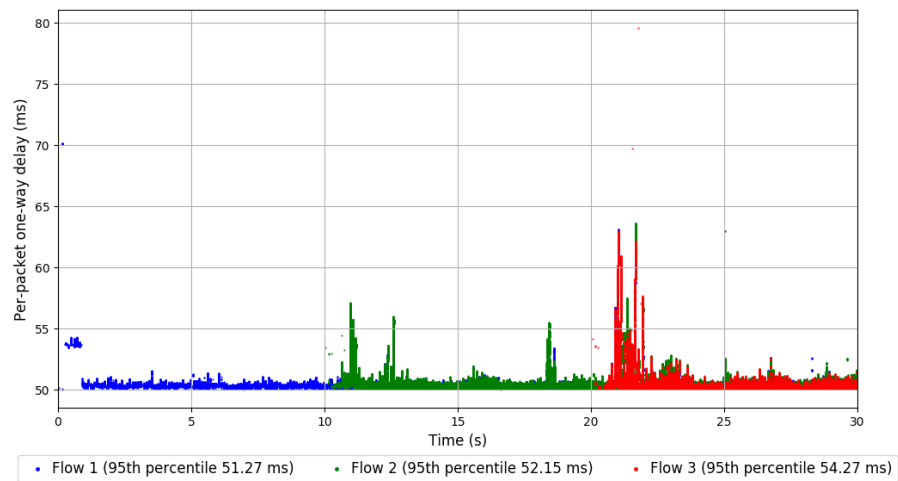
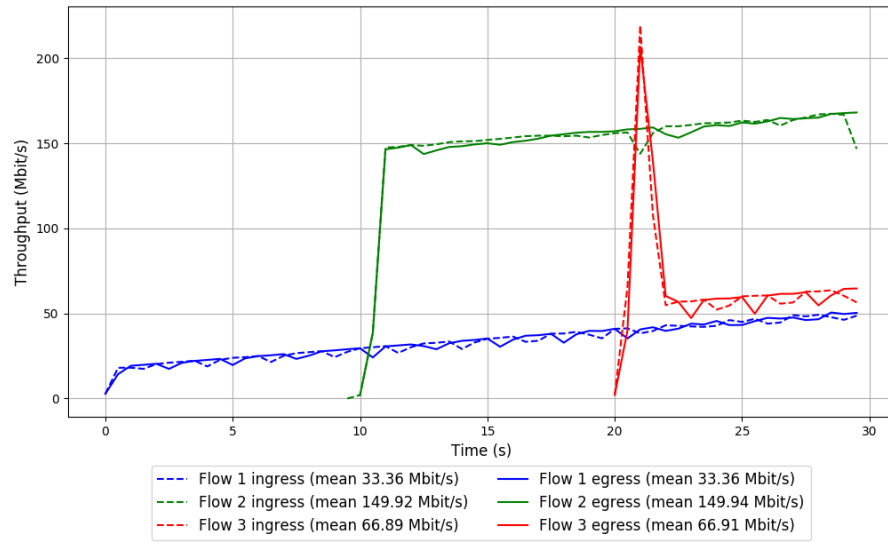
-- Flow 3:

Average throughput: 66.91 Mbit/s

95th percentile per-packet one-way delay: 54.275 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-17 20:05:46

End at: 2018-01-17 20:06:16

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.27 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.65 Mbit/s

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

Loss rate: 0.00%

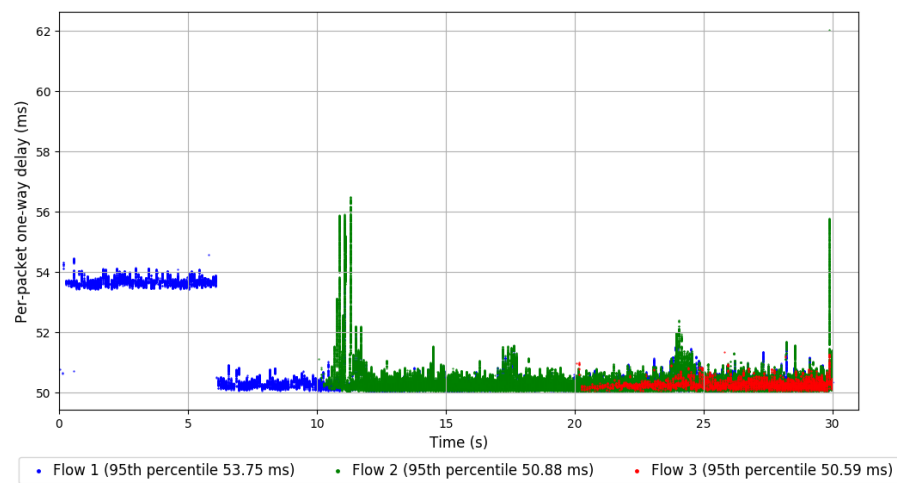
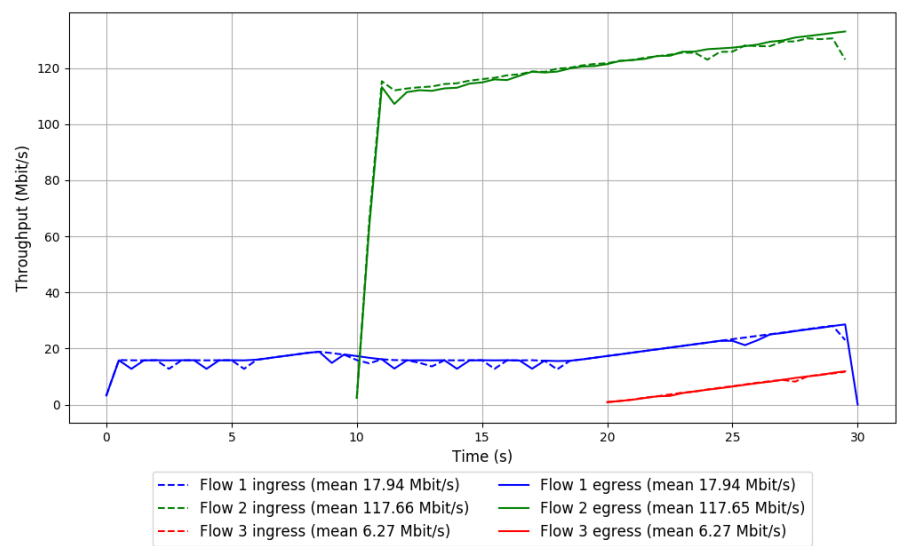
-- Flow 3:

Average throughput: 6.27 Mbit/s

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

Loss rate: 0.04%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-17 20:22:42

End at: 2018-01-17 20:23:12

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.64 Mbit/s

95th percentile per-packet one-way delay: 54.016 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 53.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.96 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.00%

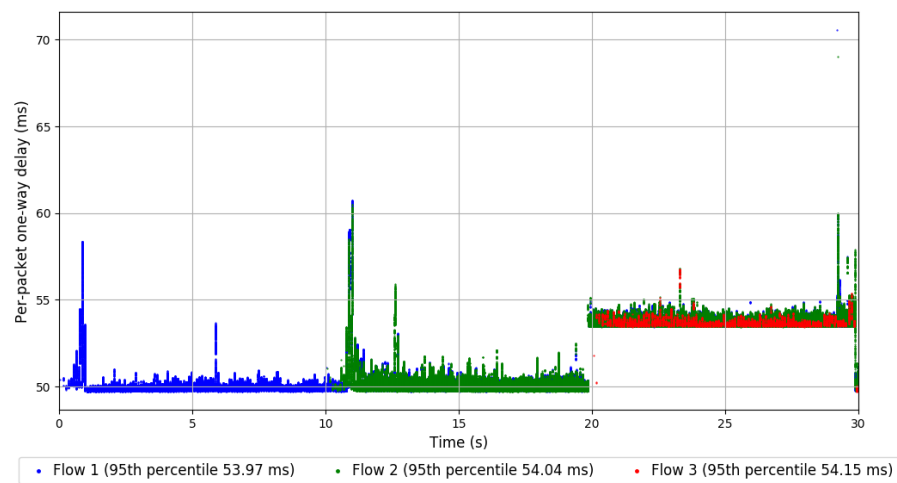
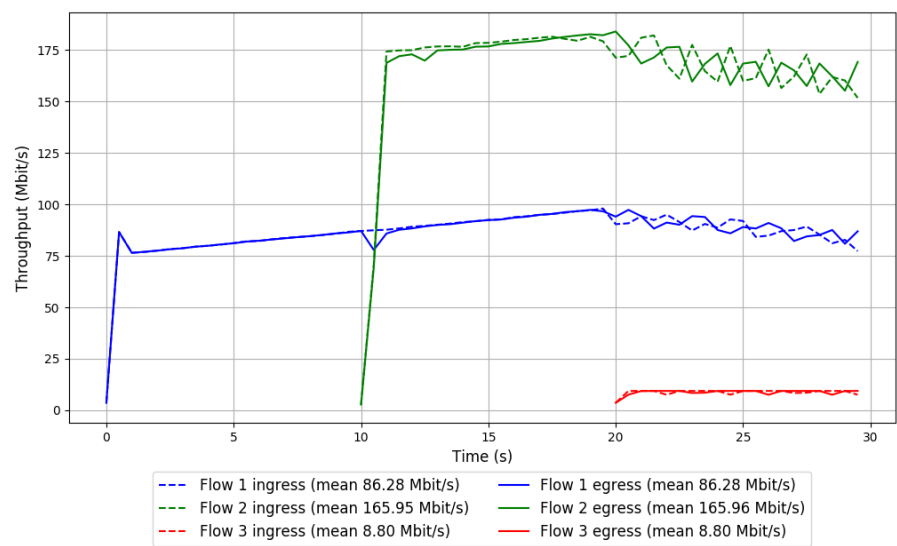
-- Flow 3:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 54.148 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-17 20:39:52

End at: 2018-01-17 20:40:22

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.14 Mbit/s

95th percentile per-packet one-way delay: 54.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 54.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 54.881 ms

Loss rate: 0.00%

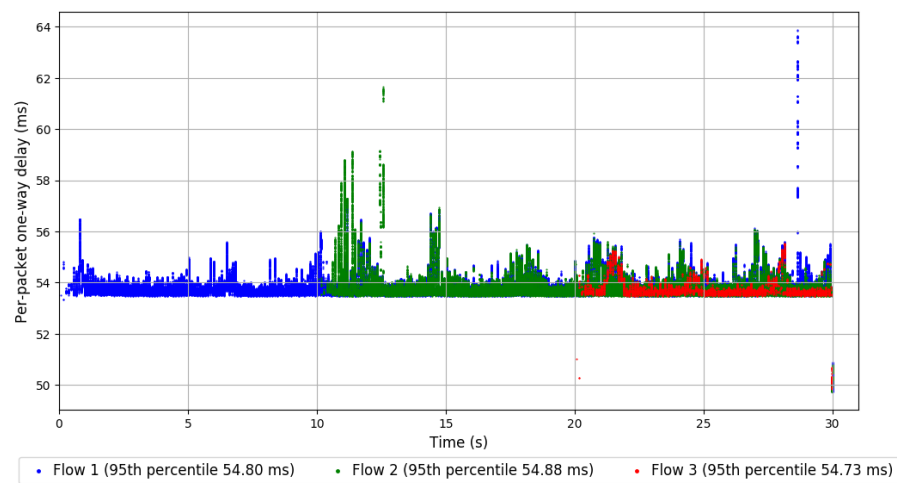
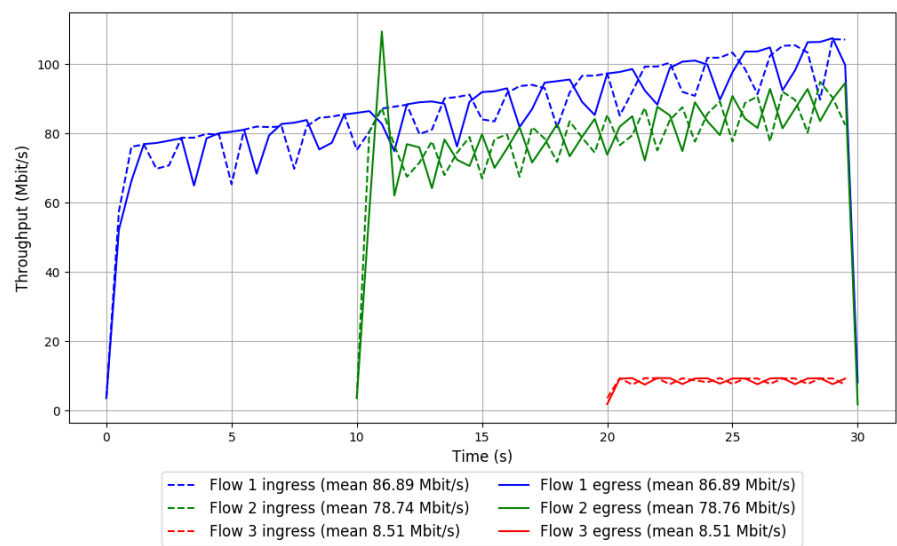
-- Flow 3:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 54.731 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-17 20:56:04

End at: 2018-01-17 20:56:34

Below is generated by plot.py at 2018-01-17 23:52:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.32 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 139.16 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.56 Mbit/s

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

Loss rate: 0.00%

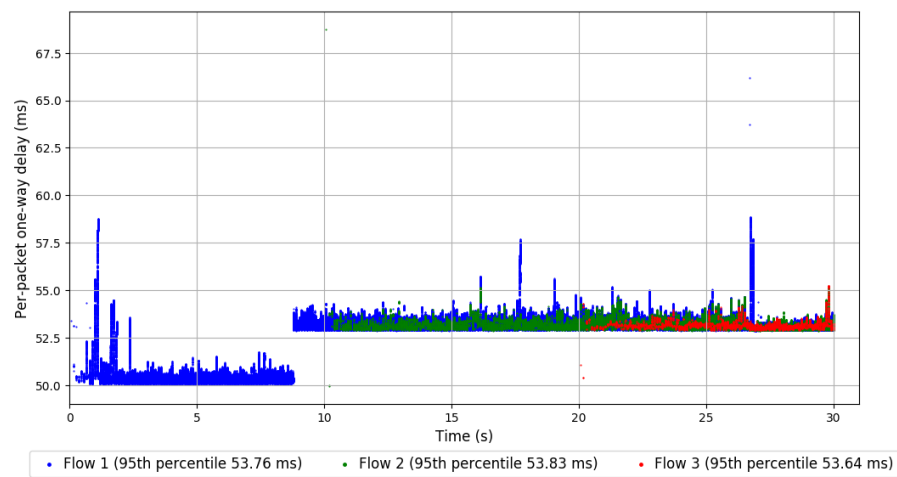
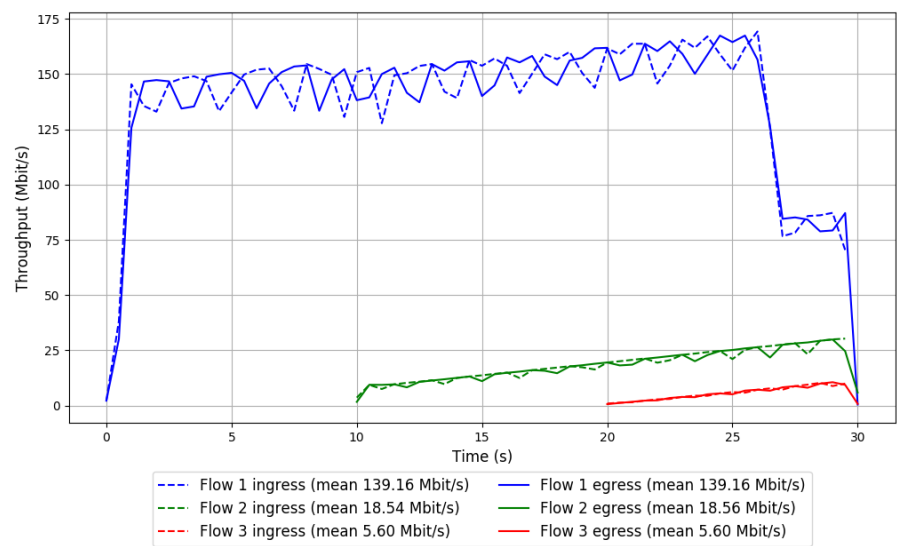
-- Flow 3:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 53.642 ms

Loss rate: 0.09%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-17 18:30:49

End at: 2018-01-17 18:31:19

Below is generated by plot.py at 2018-01-17 23:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.58 Mbit/s

95th percentile per-packet one-way delay: 107.864 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 196.05 Mbit/s

95th percentile per-packet one-way delay: 109.722 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.94 Mbit/s

95th percentile per-packet one-way delay: 105.319 ms

Loss rate: 0.00%

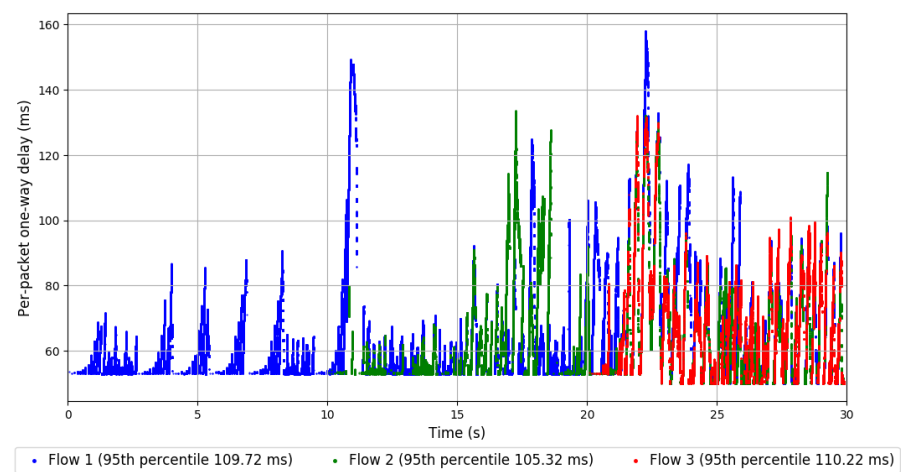
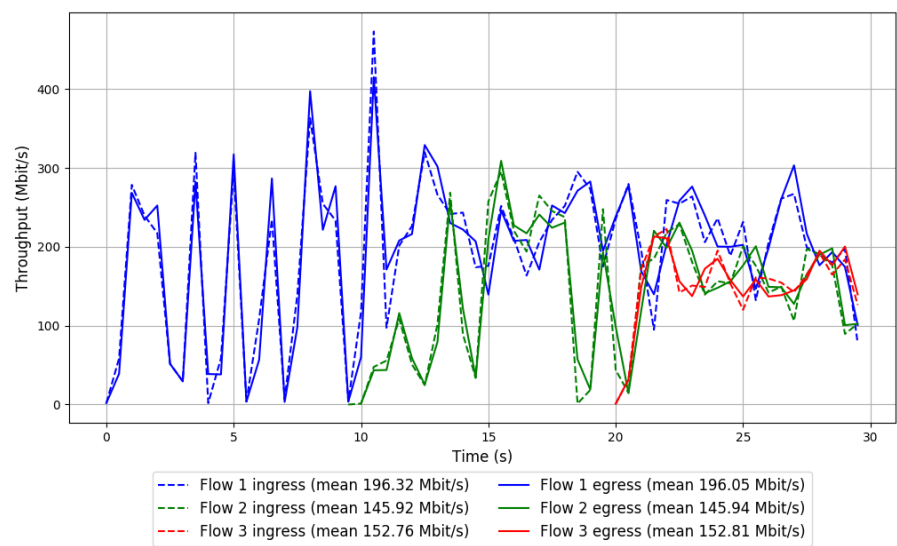
-- Flow 3:

Average throughput: 152.81 Mbit/s

95th percentile per-packet one-way delay: 110.225 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-17 18:47:38

End at: 2018-01-17 18:48:08

Below is generated by plot.py at 2018-01-17 23:56:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.67 Mbit/s

95th percentile per-packet one-way delay: 180.483 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 233.15 Mbit/s

95th percentile per-packet one-way delay: 194.239 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 104.28 Mbit/s

95th percentile per-packet one-way delay: 133.184 ms

Loss rate: 0.26%

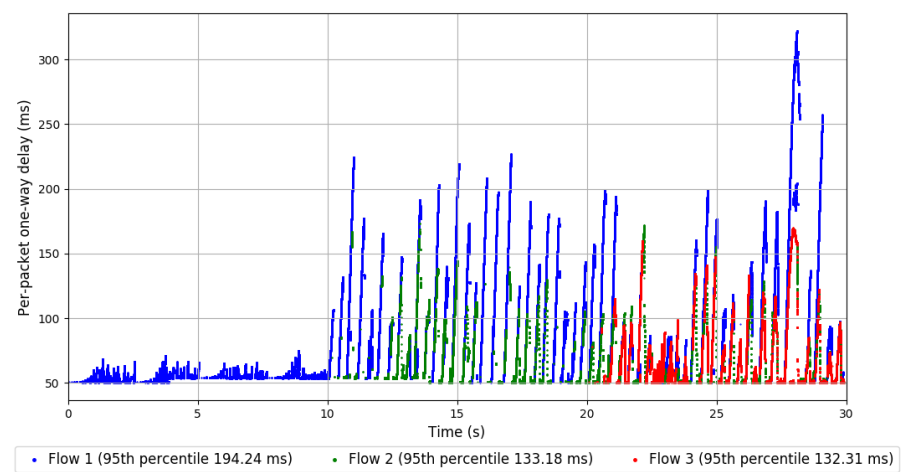
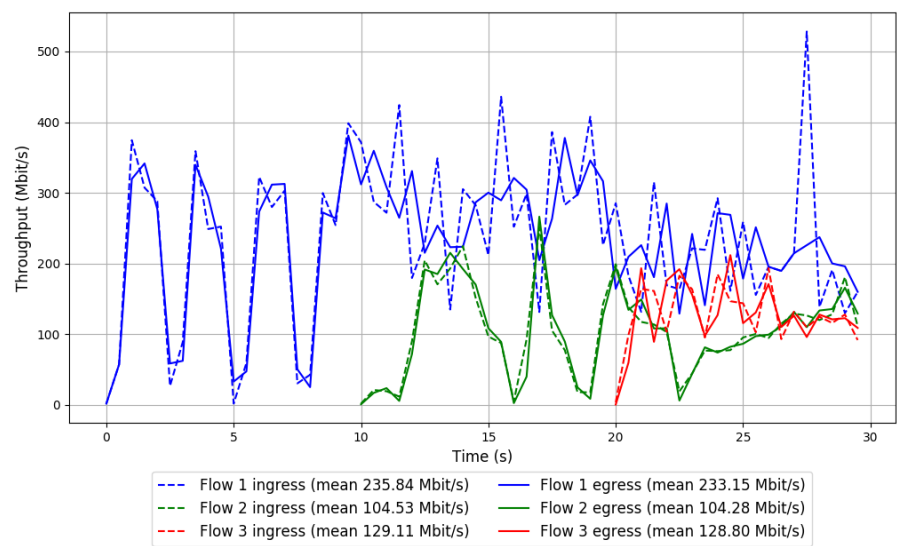
-- Flow 3:

Average throughput: 128.80 Mbit/s

95th percentile per-packet one-way delay: 132.308 ms

Loss rate: 0.25%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-17 19:04:10

End at: 2018-01-17 19:04:40

Below is generated by plot.py at 2018-01-17 23:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.46 Mbit/s

95th percentile per-packet one-way delay: 98.970 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 205.91 Mbit/s

95th percentile per-packet one-way delay: 85.163 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.25 Mbit/s

95th percentile per-packet one-way delay: 123.120 ms

Loss rate: 0.00%

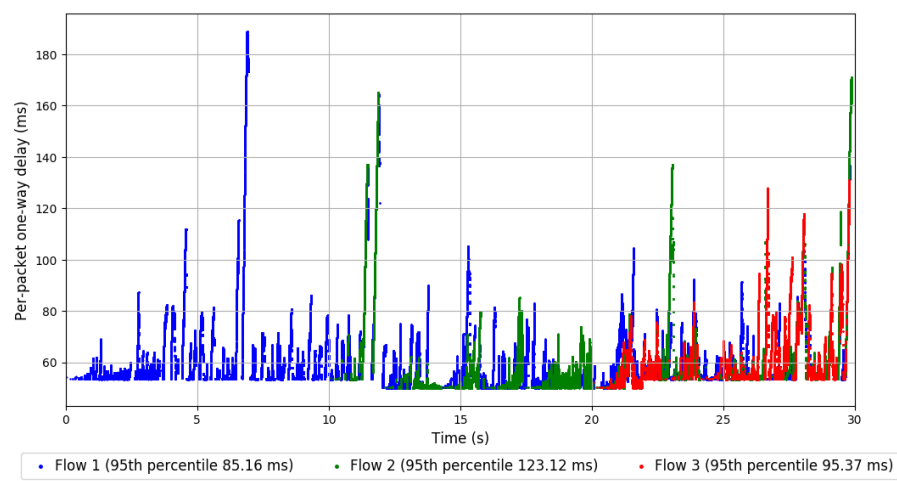
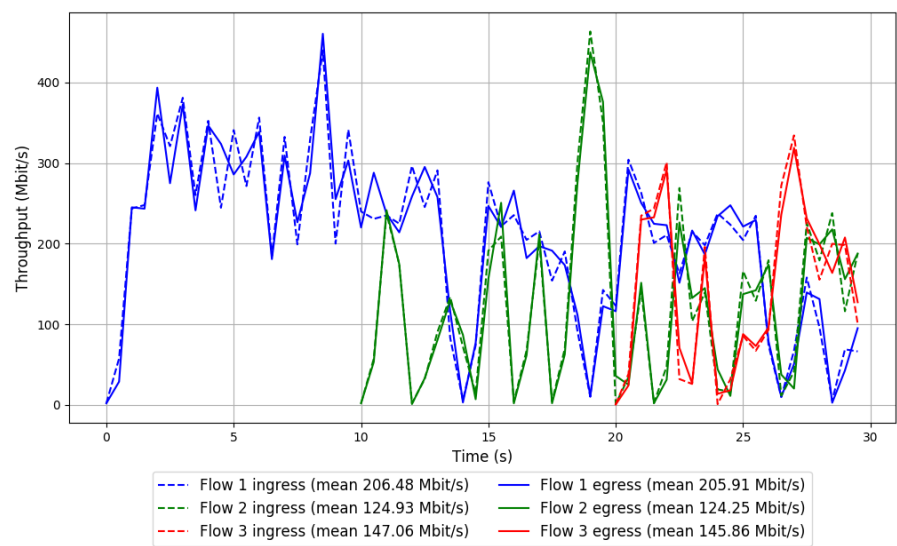
-- Flow 3:

Average throughput: 145.86 Mbit/s

95th percentile per-packet one-way delay: 95.370 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-17 19:21:09

End at: 2018-01-17 19:21:39

Below is generated by plot.py at 2018-01-17 23:57:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.36 Mbit/s

95th percentile per-packet one-way delay: 153.082 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 225.15 Mbit/s

95th percentile per-packet one-way delay: 131.093 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 192.75 Mbit/s

95th percentile per-packet one-way delay: 192.804 ms

Loss rate: 2.19%

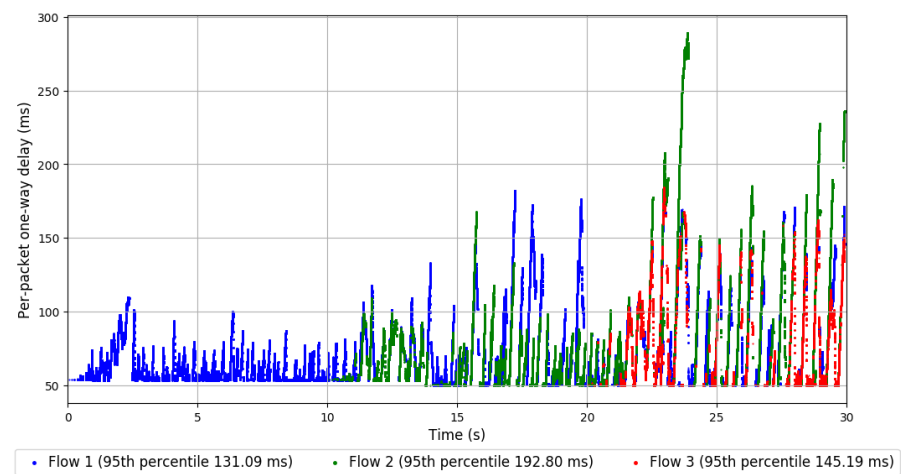
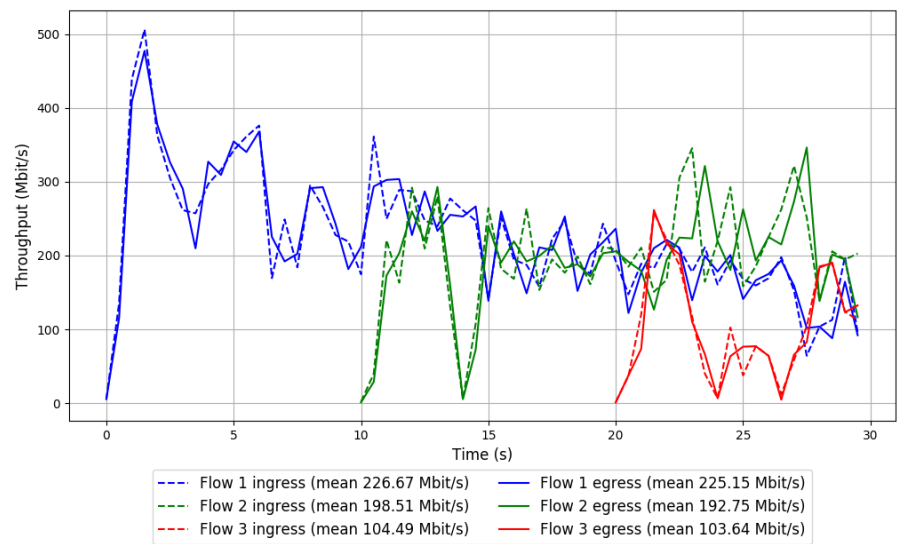
-- Flow 3:

Average throughput: 103.64 Mbit/s

95th percentile per-packet one-way delay: 145.189 ms

Loss rate: 0.87%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-17 19:37:58

End at: 2018-01-17 19:38:28

Below is generated by plot.py at 2018-01-17 23:58:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.26 Mbit/s

95th percentile per-packet one-way delay: 143.470 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 222.08 Mbit/s

95th percentile per-packet one-way delay: 123.987 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 135.48 Mbit/s

95th percentile per-packet one-way delay: 96.865 ms

Loss rate: 0.02%

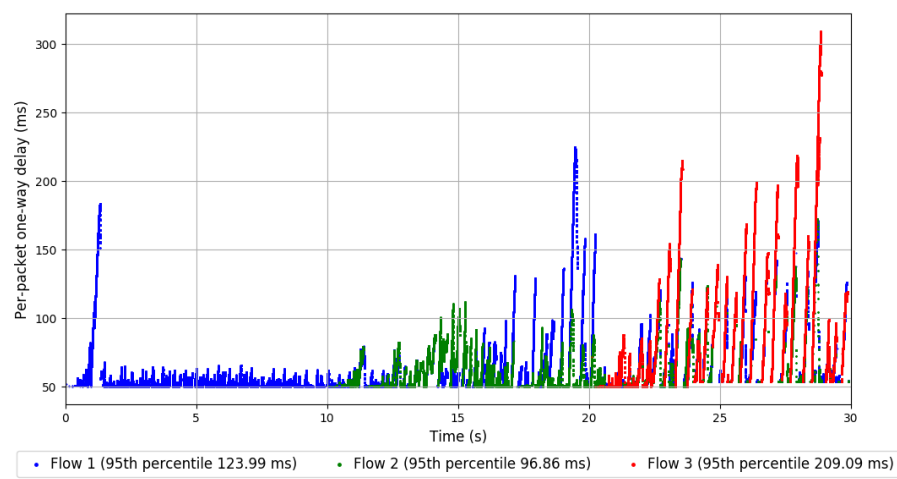
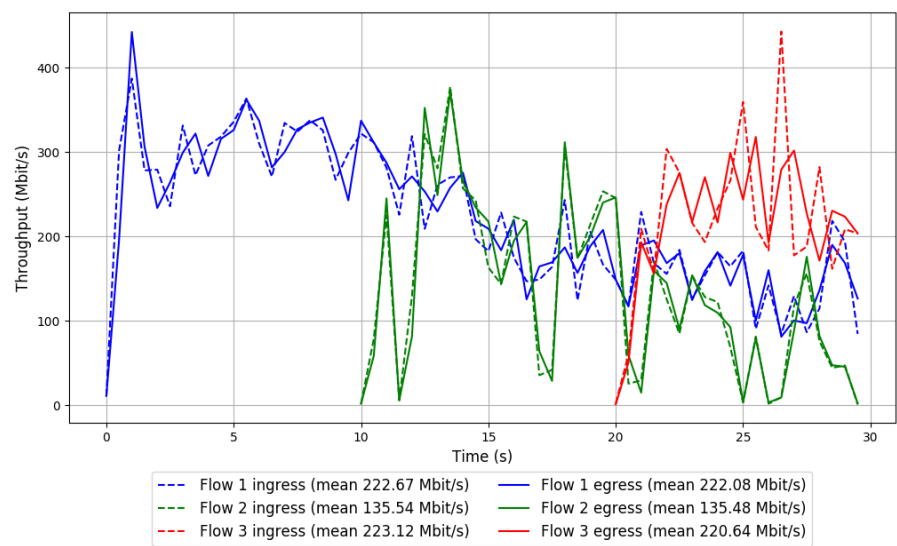
-- Flow 3:

Average throughput: 220.64 Mbit/s

95th percentile per-packet one-way delay: 209.091 ms

Loss rate: 0.63%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-17 19:54:47

End at: 2018-01-17 19:55:17

Below is generated by plot.py at 2018-01-17 23:58:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.44 Mbit/s

95th percentile per-packet one-way delay: 124.726 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.21 Mbit/s

95th percentile per-packet one-way delay: 95.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.92 Mbit/s

95th percentile per-packet one-way delay: 134.011 ms

Loss rate: 0.00%

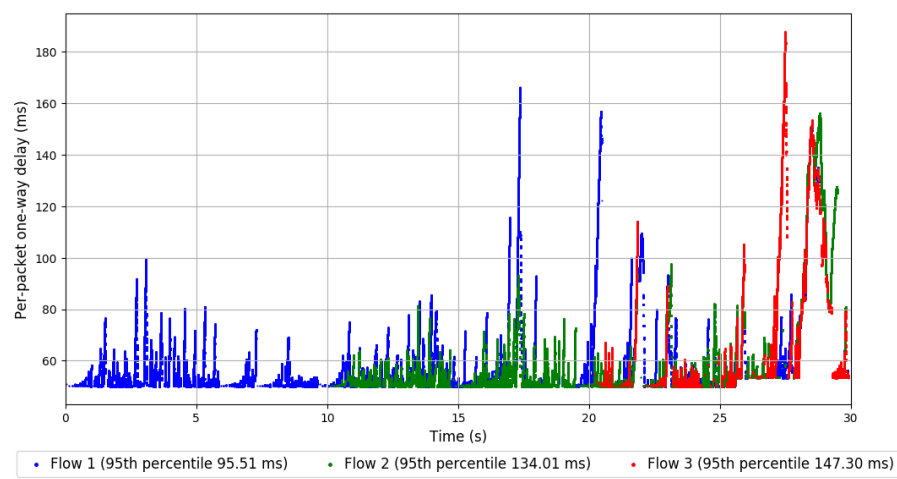
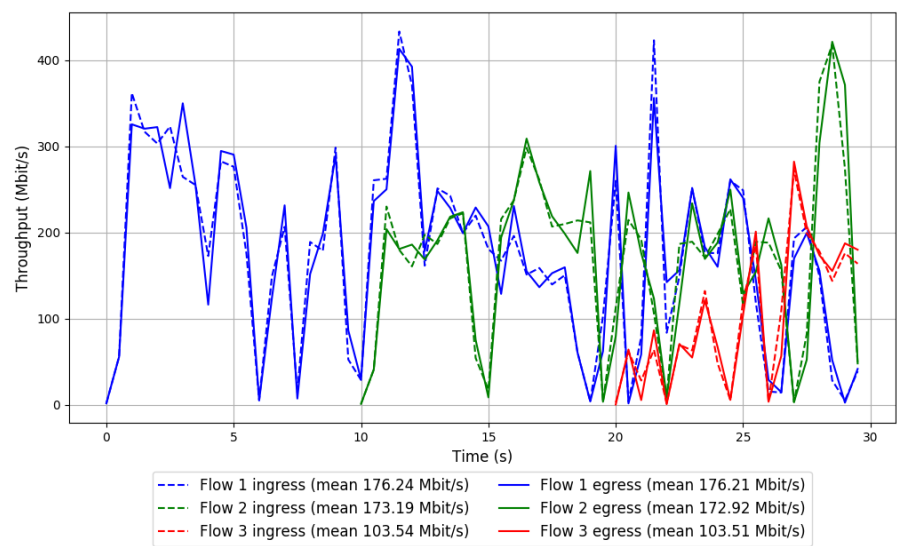
-- Flow 3:

Average throughput: 103.51 Mbit/s

95th percentile per-packet one-way delay: 147.298 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-17 20:11:21

End at: 2018-01-17 20:11:51

Below is generated by plot.py at 2018-01-17 23:58:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.88 Mbit/s

95th percentile per-packet one-way delay: 74.646 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.07 Mbit/s

95th percentile per-packet one-way delay: 71.927 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.71 Mbit/s

95th percentile per-packet one-way delay: 93.842 ms

Loss rate: 0.00%

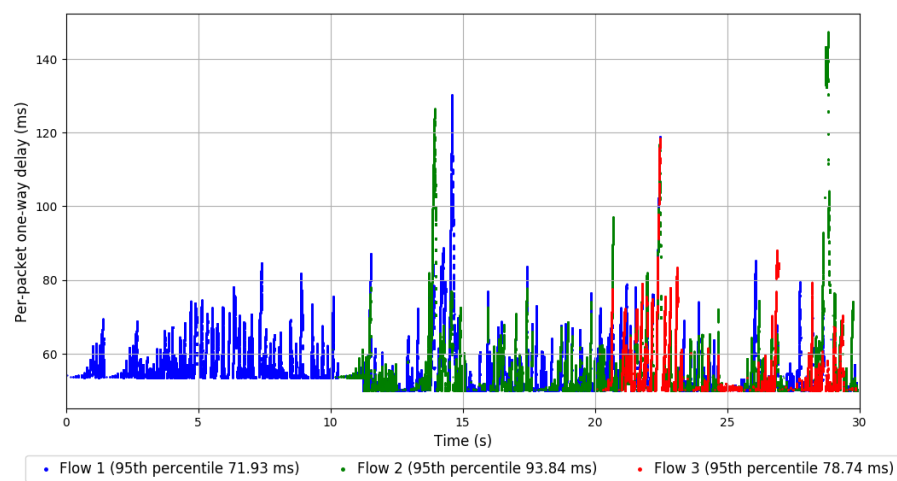
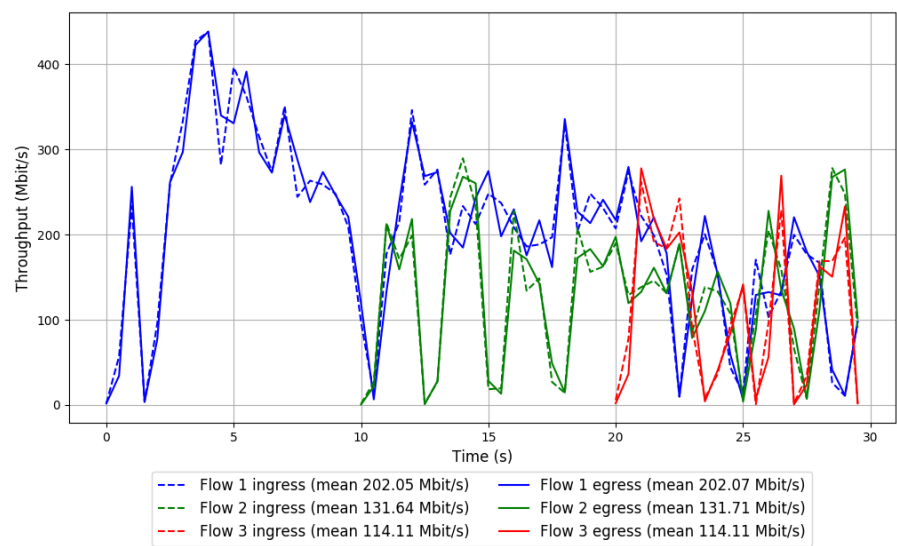
-- Flow 3:

Average throughput: 114.11 Mbit/s

95th percentile per-packet one-way delay: 78.742 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-17 20:28:34

End at: 2018-01-17 20:29:04

Below is generated by plot.py at 2018-01-17 23:59:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.92 Mbit/s

95th percentile per-packet one-way delay: 119.590 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 224.04 Mbit/s

95th percentile per-packet one-way delay: 118.613 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 211.64 Mbit/s

95th percentile per-packet one-way delay: 118.268 ms

Loss rate: 0.18%

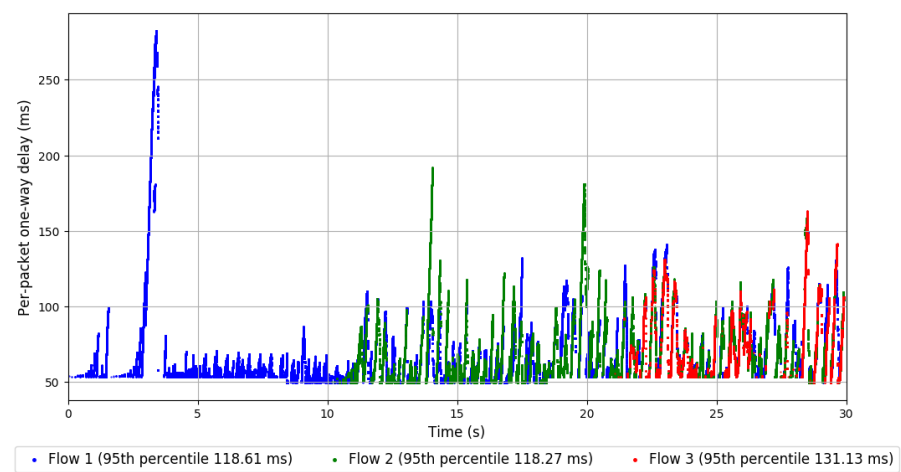
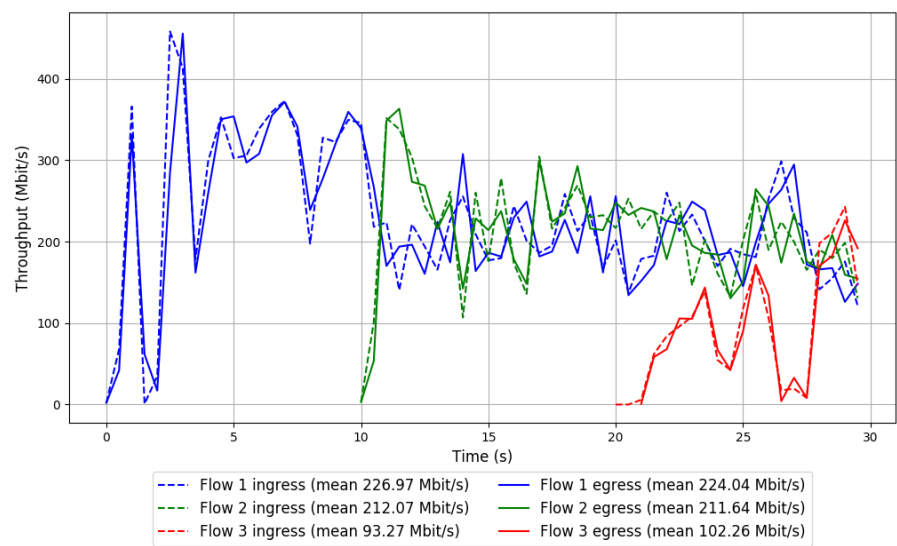
-- Flow 3:

Average throughput: 102.26 Mbit/s

95th percentile per-packet one-way delay: 131.133 ms

Loss rate: 1.50%

Run 8: Report of Verus — Data Link

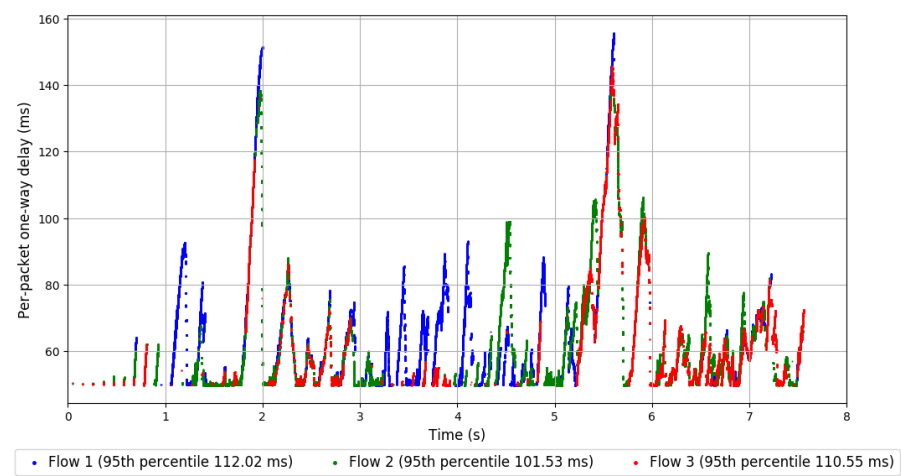
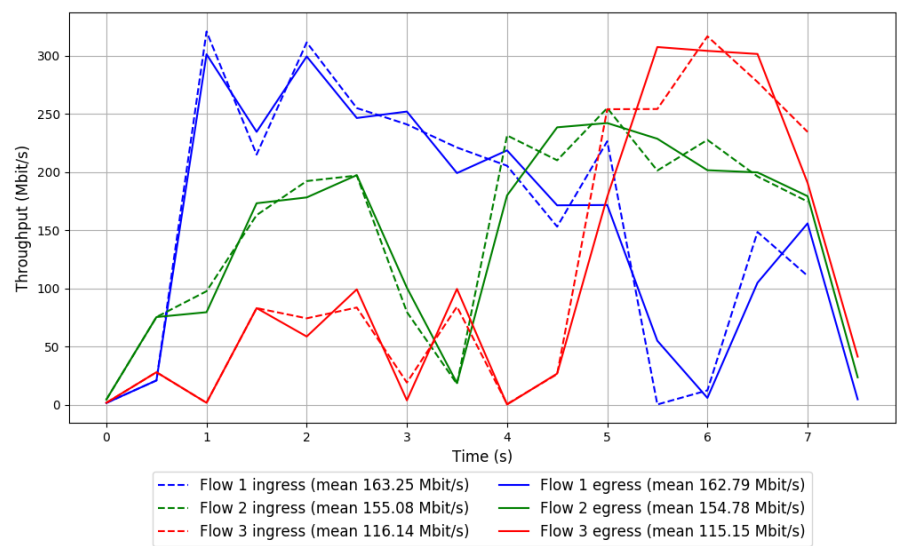


Run 9: Statistics of Verus

Start at: 2018-01-17 20:45:12

End at: 2018-01-17 20:45:42

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-17 21:01:54

End at: 2018-01-17 21:02:24

Below is generated by plot.py at 2018-01-18 00:02:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.16 Mbit/s

95th percentile per-packet one-way delay: 110.147 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 162.25 Mbit/s

95th percentile per-packet one-way delay: 142.439 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 183.05 Mbit/s

95th percentile per-packet one-way delay: 112.149 ms

Loss rate: 0.13%

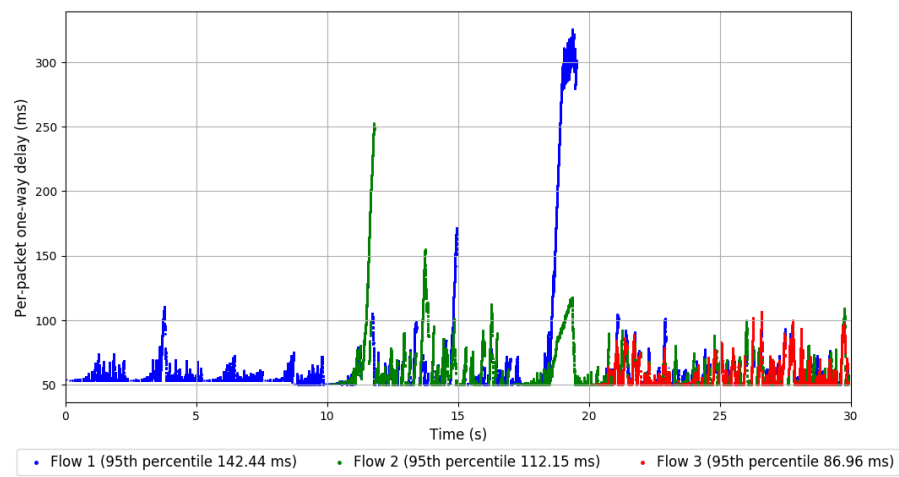
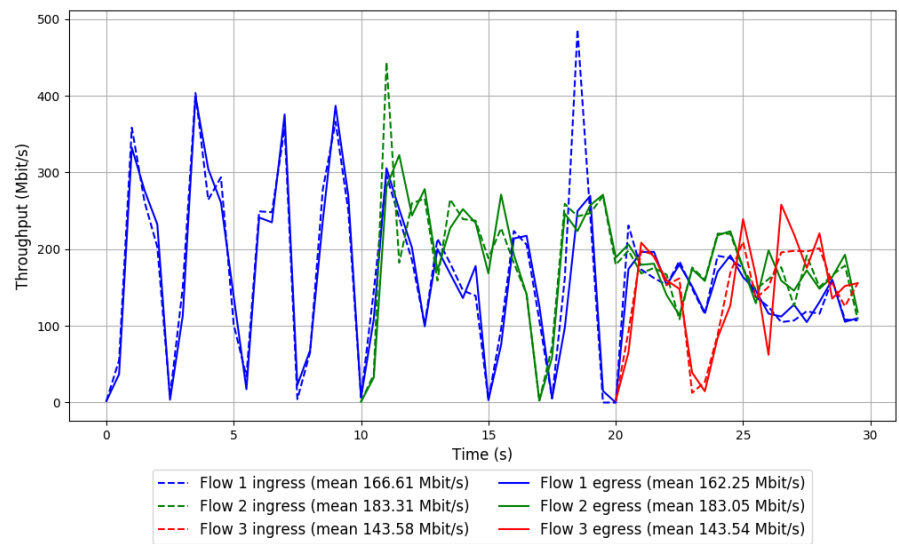
-- Flow 3:

Average throughput: 143.54 Mbit/s

95th percentile per-packet one-way delay: 86.964 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-17 18:23:01

End at: 2018-01-17 18:23:31

Below is generated by plot.py at 2018-01-18 00:02:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.45 Mbit/s

95th percentile per-packet one-way delay: 53.235 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.64 Mbit/s

95th percentile per-packet one-way delay: 50.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.81 Mbit/s

95th percentile per-packet one-way delay: 53.349 ms

Loss rate: 0.00%

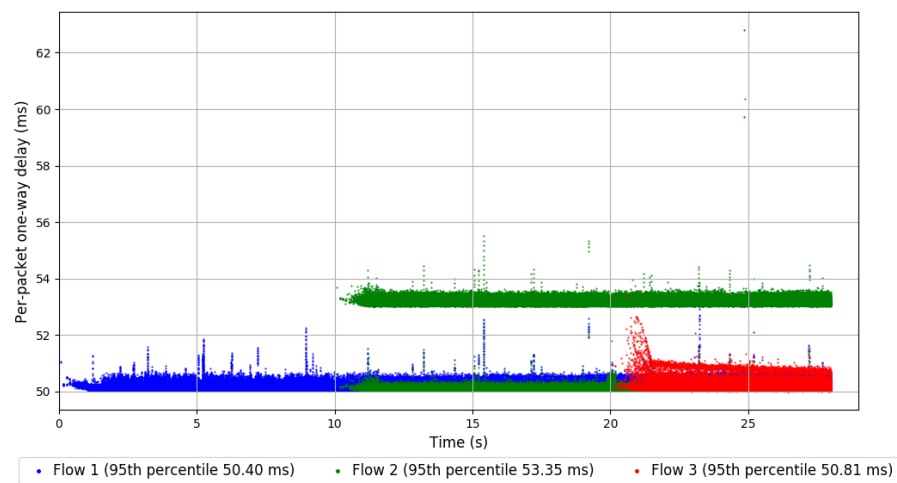
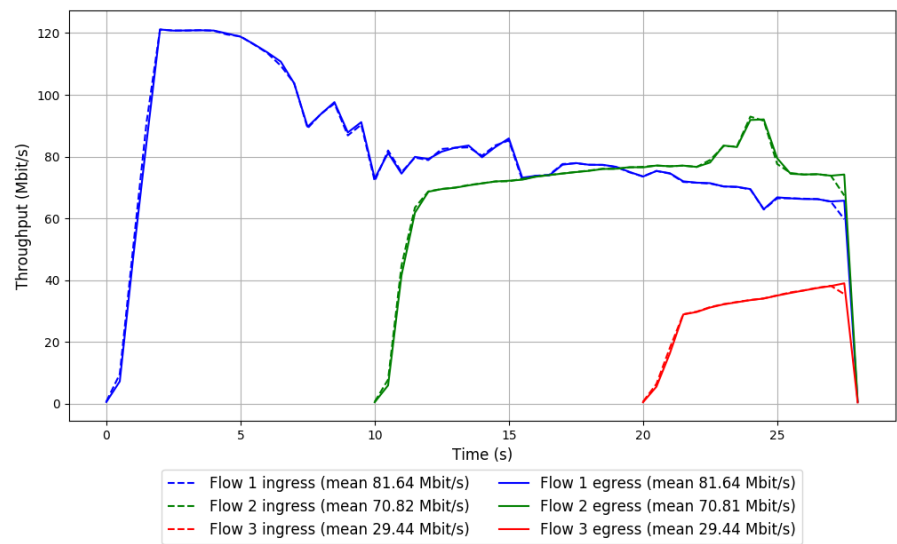
-- Flow 3:

Average throughput: 29.44 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-17 18:39:57

End at: 2018-01-17 18:40:27

Below is generated by plot.py at 2018-01-18 00:02:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.54 Mbit/s

95th percentile per-packet one-way delay: 53.379 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.70 Mbit/s

95th percentile per-packet one-way delay: 53.037 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.28 Mbit/s

95th percentile per-packet one-way delay: 52.975 ms

Loss rate: 0.00%

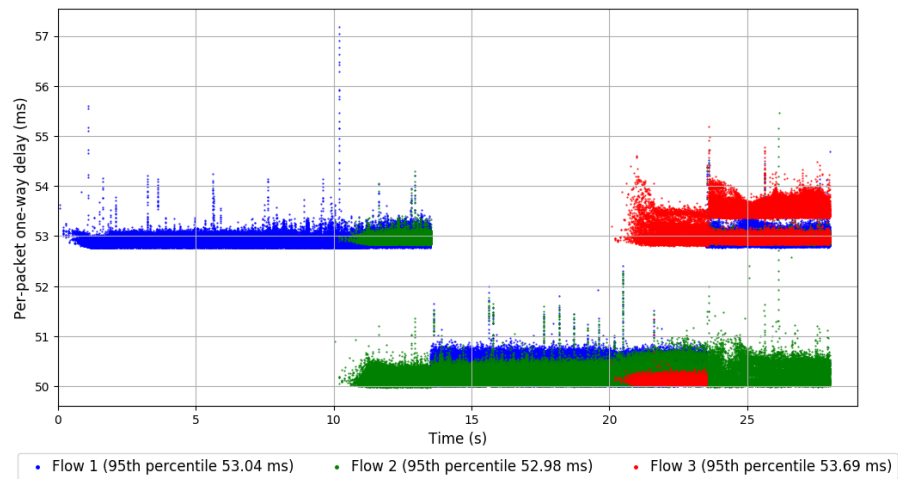
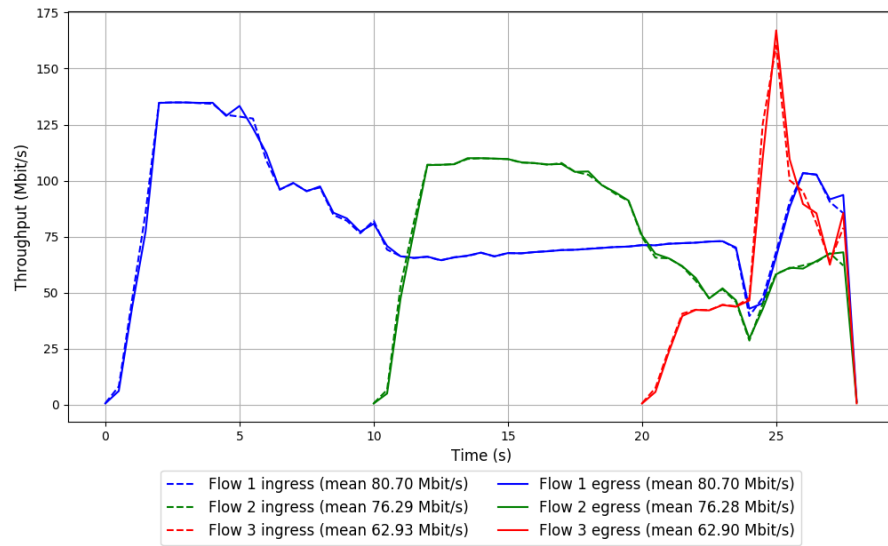
-- Flow 3:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 53.688 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-17 18:56:36

End at: 2018-01-17 18:57:06

Below is generated by plot.py at 2018-01-18 00:02:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.63 Mbit/s

95th percentile per-packet one-way delay: 53.569 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 53.502 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 53.631 ms

Loss rate: 0.00%

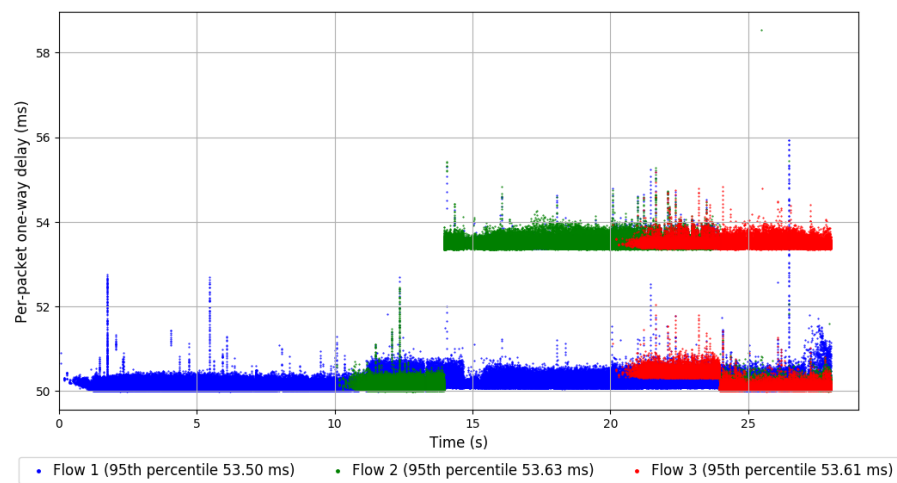
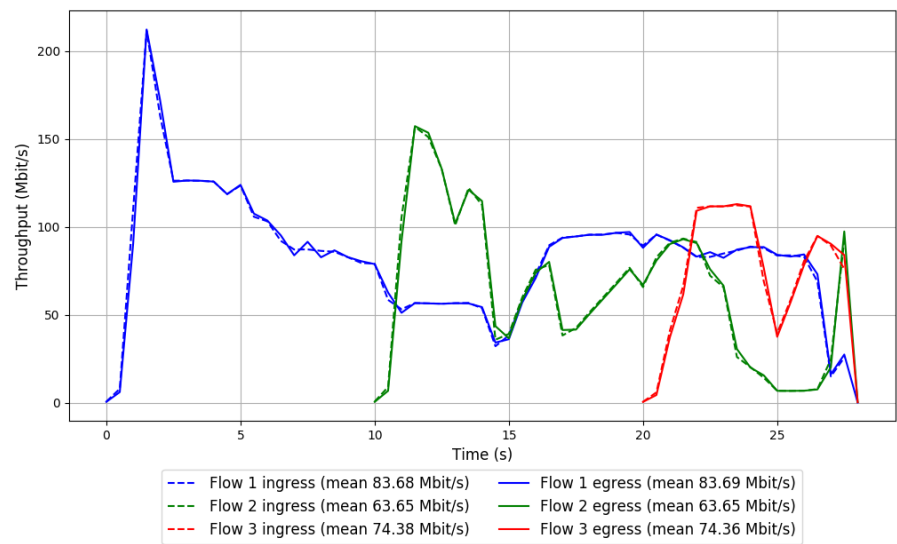
-- Flow 3:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-17 19:13:08

End at: 2018-01-17 19:13:38

Below is generated by plot.py at 2018-01-18 00:02:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.49 Mbit/s

95th percentile per-packet one-way delay: 53.571 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.18 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 53.604 ms

Loss rate: 0.00%

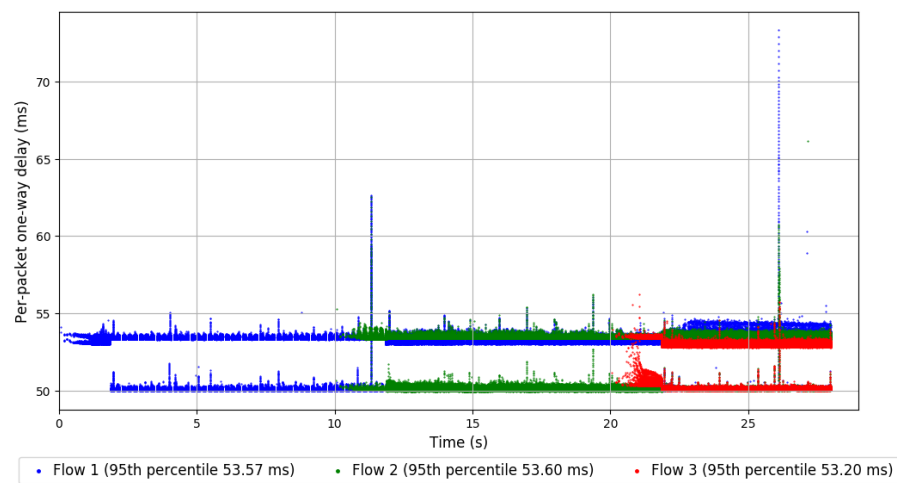
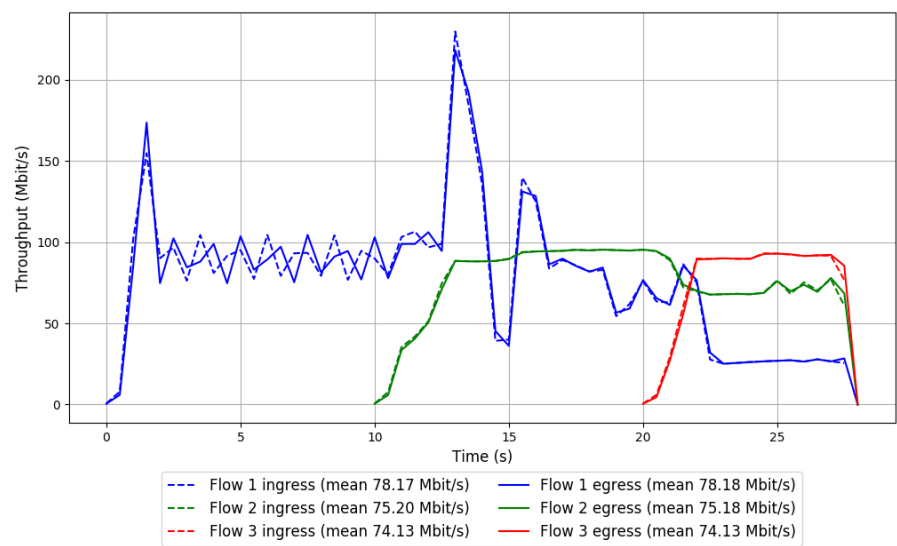
-- Flow 3:

Average throughput: 74.13 Mbit/s

95th percentile per-packet one-way delay: 53.202 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-17 19:30:11

End at: 2018-01-17 19:30:41

Below is generated by plot.py at 2018-01-18 00:02:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.24 Mbit/s

95th percentile per-packet one-way delay: 53.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 53.622 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 53.498 ms

Loss rate: 0.00%

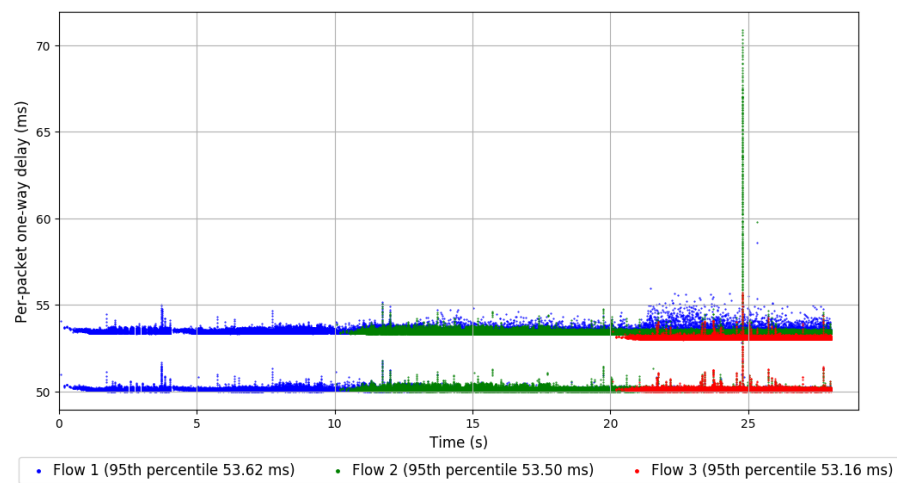
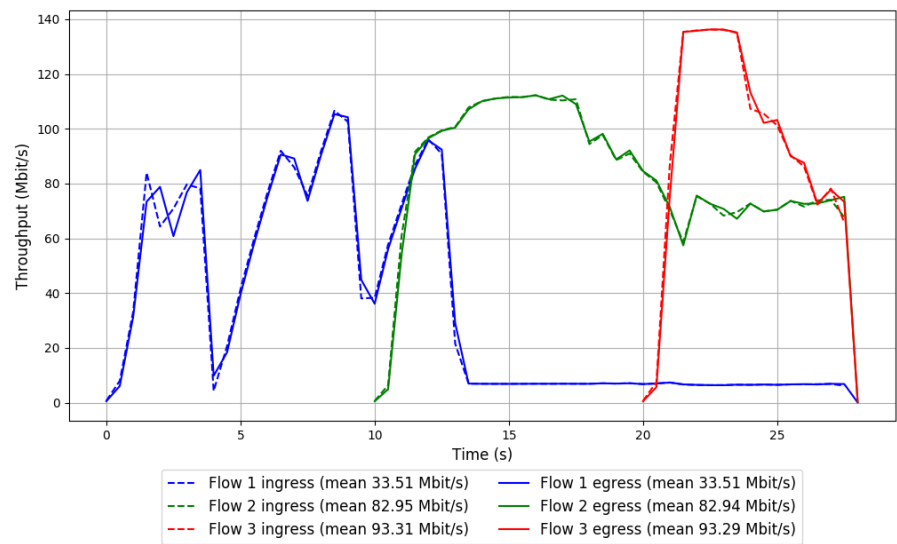
-- Flow 3:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 53.157 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-17 19:47:09

End at: 2018-01-17 19:47:39

Below is generated by plot.py at 2018-01-18 00:03:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.73 Mbit/s

95th percentile per-packet one-way delay: 53.582 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.91 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.81 Mbit/s

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

Loss rate: 0.00%

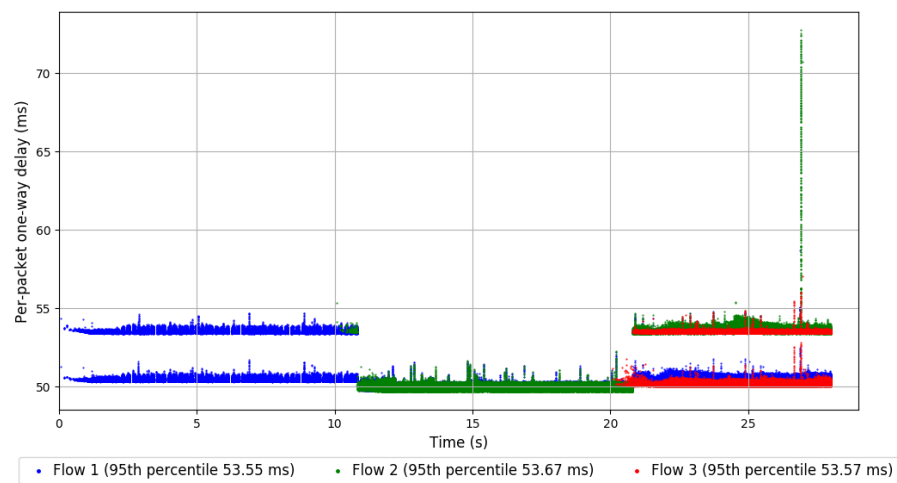
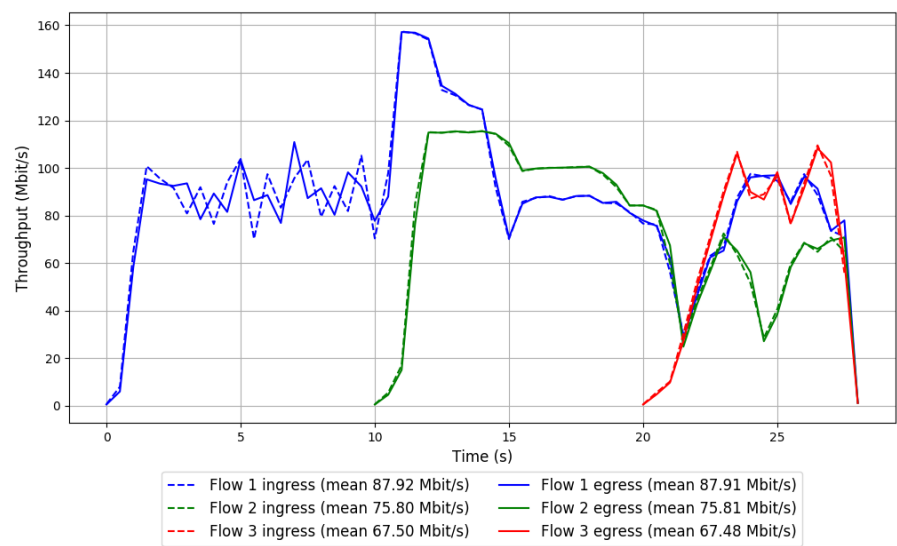
-- Flow 3:

Average throughput: 67.48 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-17 20:03:55

End at: 2018-01-17 20:04:25

Below is generated by plot.py at 2018-01-18 00:03:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.16 Mbit/s

95th percentile per-packet one-way delay: 53.598 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 53.475 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 53.710 ms

Loss rate: 0.00%

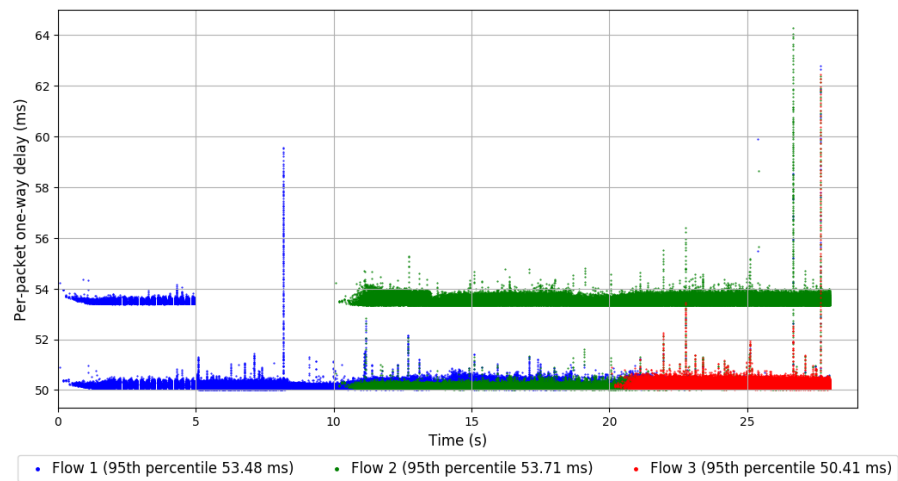
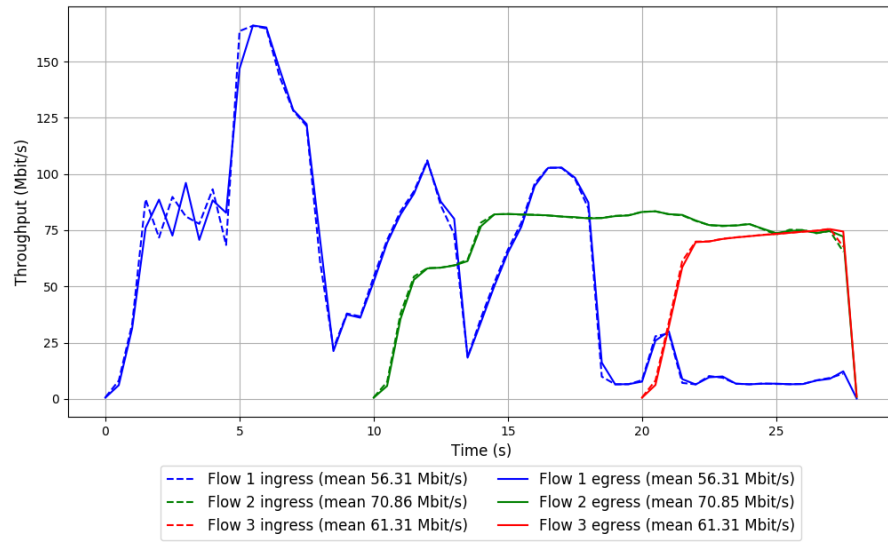
-- Flow 3:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-17 20:20:46

End at: 2018-01-17 20:21:16

Below is generated by plot.py at 2018-01-18 00:04:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.21 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.43 Mbit/s

95th percentile per-packet one-way delay: 53.492 ms

Loss rate: 0.00%

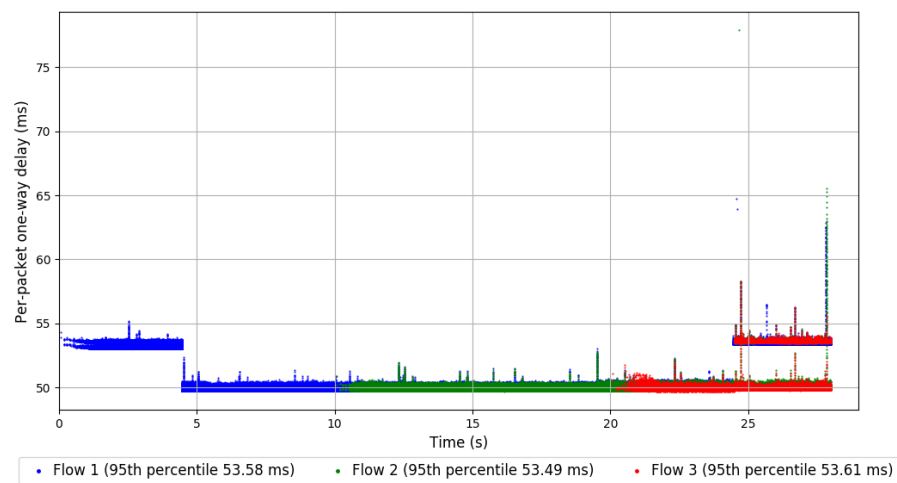
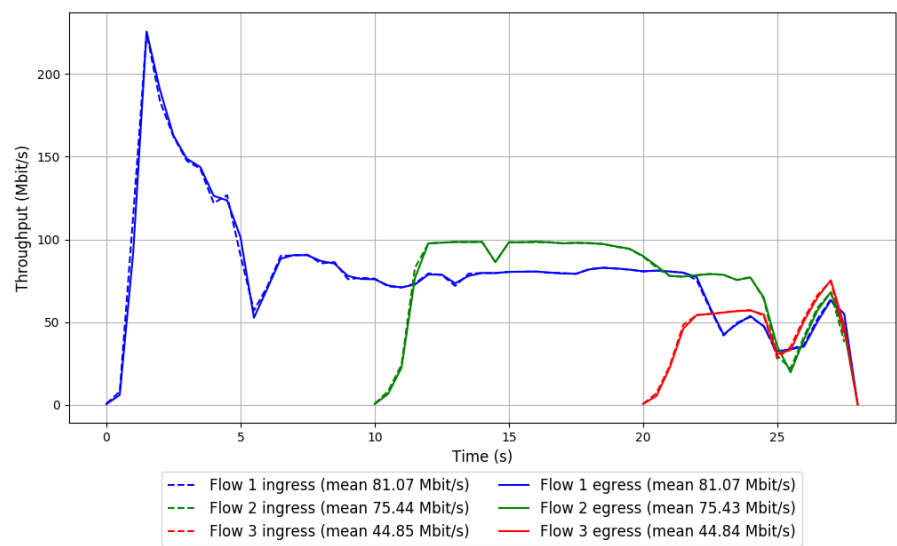
-- Flow 3:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-17 20:37:48

End at: 2018-01-17 20:38:18

Below is generated by plot.py at 2018-01-18 00:05:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.96 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 53.632 ms

Loss rate: 0.07%

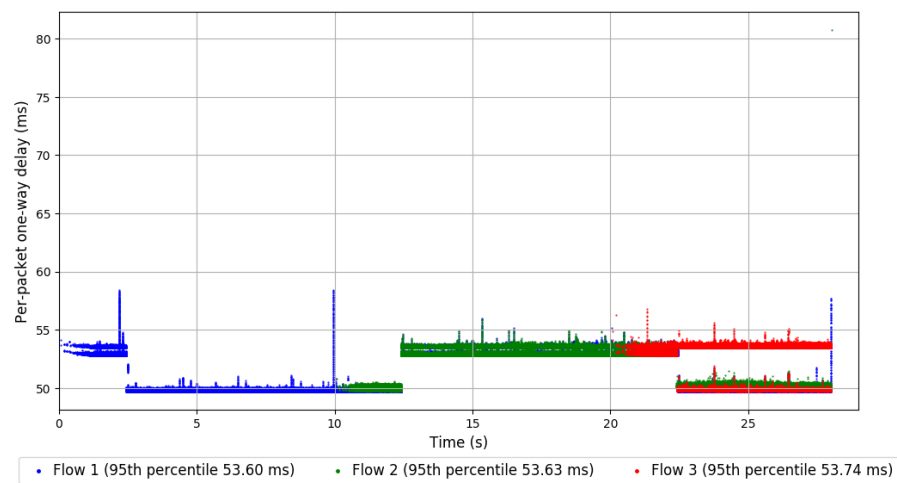
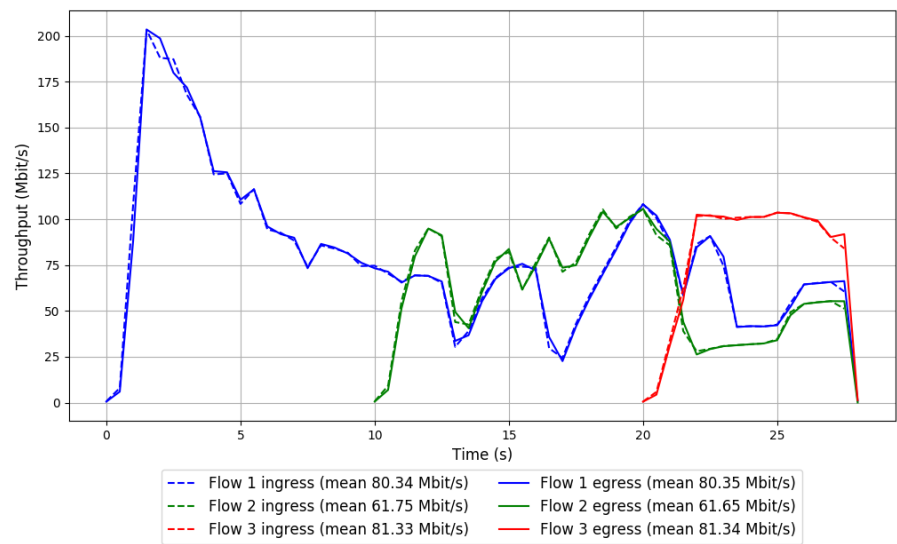
-- Flow 3:

Average throughput: 81.34 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-17 20:54:07

End at: 2018-01-17 20:54:37

Below is generated by plot.py at 2018-01-18 00:06:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.02 Mbit/s

95th percentile per-packet one-way delay: 52.998 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.15 Mbit/s

95th percentile per-packet one-way delay: 53.021 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 52.964 ms

Loss rate: 0.00%

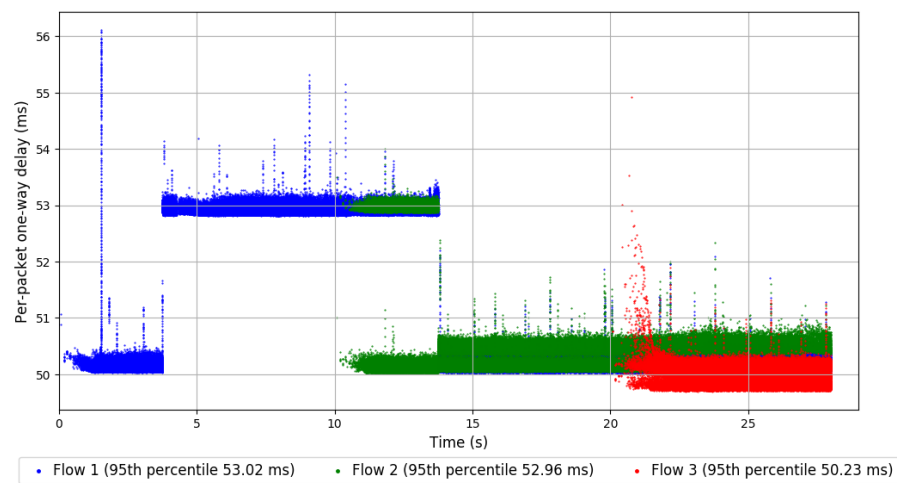
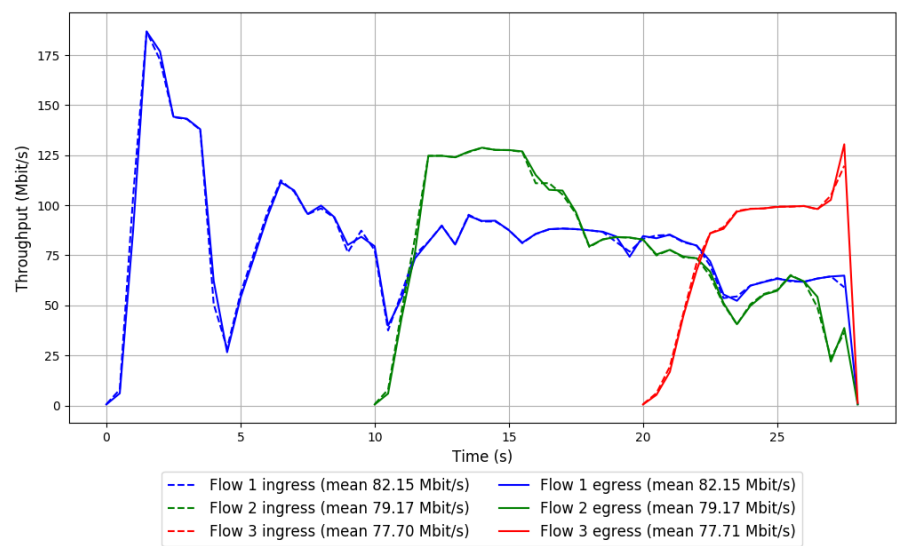
-- Flow 3:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 50.231 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

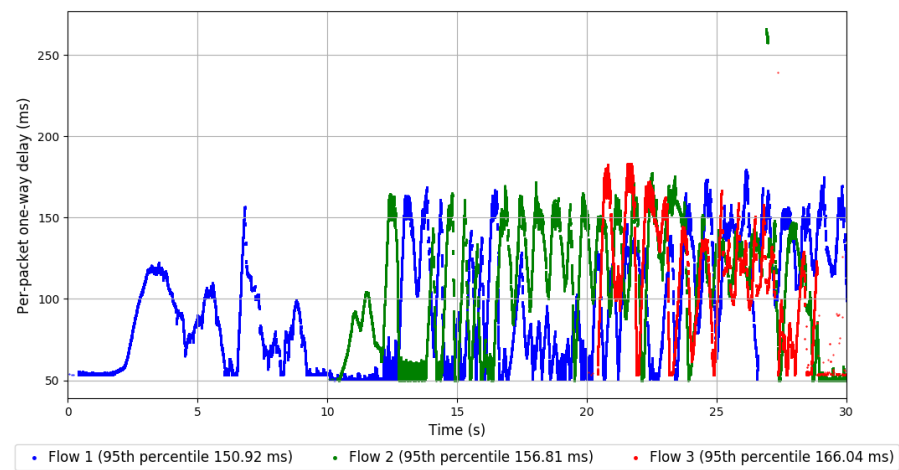
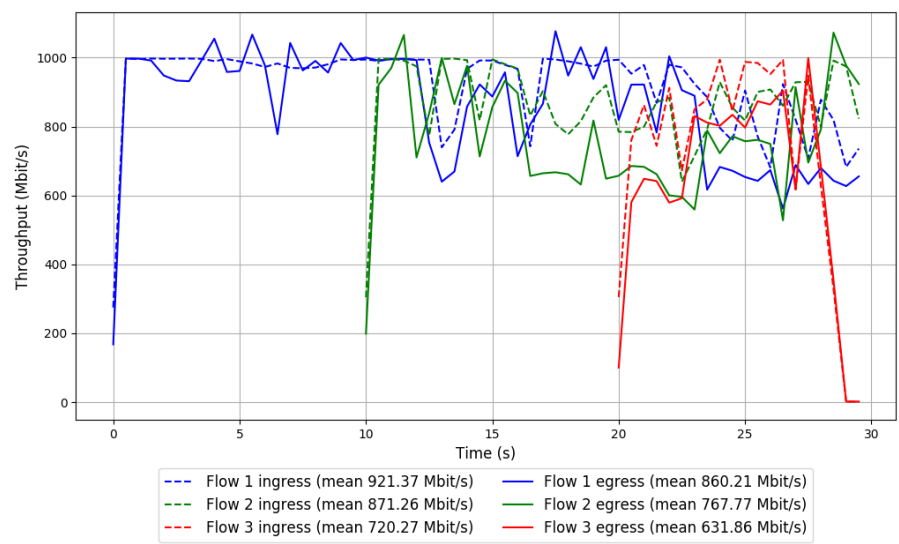


```
Run 1: Statistics of FillP

Start at: 2018-01-17 18:17:32
End at: 2018-01-17 18:18:02

# Below is generated by plot.py at 2018-01-18 00:32:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1580.32 Mbit/s
95th percentile per-packet one-way delay: 155.357 ms
Loss rate: 9.15%
-- Flow 1:
Average throughput: 860.21 Mbit/s
95th percentile per-packet one-way delay: 150.920 ms
Loss rate: 6.63%
-- Flow 2:
Average throughput: 767.77 Mbit/s
95th percentile per-packet one-way delay: 156.805 ms
Loss rate: 11.88%
-- Flow 3:
Average throughput: 631.86 Mbit/s
95th percentile per-packet one-way delay: 166.040 ms
Loss rate: 12.28%
```


Run 1: Report of FillP — Data Link

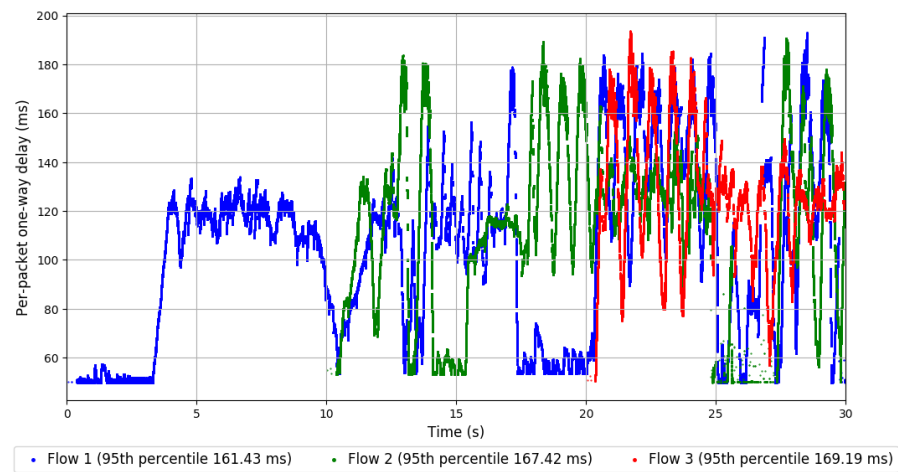
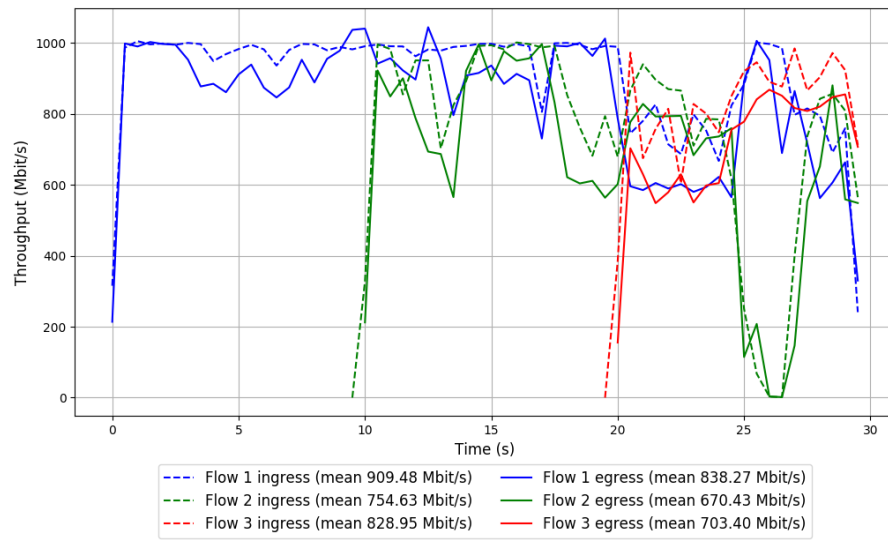


```
Run 2: Statistics of FillP

Start at: 2018-01-17 18:34:28
End at: 2018-01-17 18:34:58

# Below is generated by plot.py at 2018-01-18 00:32:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1517.90 Mbit/s
95th percentile per-packet one-way delay: 165.016 ms
Loss rate: 10.01%
-- Flow 1:
Average throughput: 838.27 Mbit/s
95th percentile per-packet one-way delay: 161.425 ms
Loss rate: 7.83%
-- Flow 2:
Average throughput: 670.43 Mbit/s
95th percentile per-packet one-way delay: 167.417 ms
Loss rate: 11.16%
-- Flow 3:
Average throughput: 703.40 Mbit/s
95th percentile per-packet one-way delay: 169.185 ms
Loss rate: 15.12%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-17 18:51:07

End at: 2018-01-17 18:51:37

Below is generated by plot.py at 2018-01-18 00:32:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1576.08 Mbit/s

95th percentile per-packet one-way delay: 155.025 ms

Loss rate: 10.40%

-- Flow 1:

Average throughput: 824.42 Mbit/s

95th percentile per-packet one-way delay: 135.343 ms

Loss rate: 9.47%

-- Flow 2:

Average throughput: 786.42 Mbit/s

95th percentile per-packet one-way delay: 161.134 ms

Loss rate: 9.45%

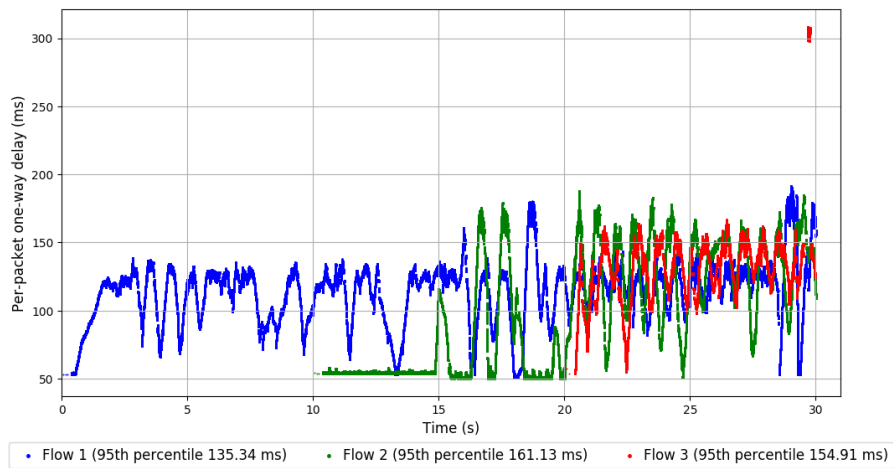
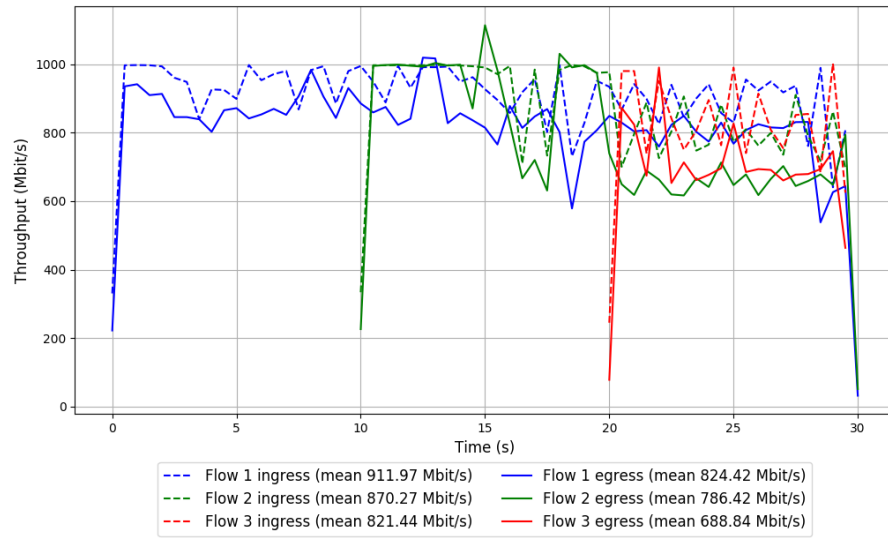
-- Flow 3:

Average throughput: 688.84 Mbit/s

95th percentile per-packet one-way delay: 154.915 ms

Loss rate: 15.57%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-17 19:07:41

End at: 2018-01-17 19:08:11

Below is generated by plot.py at 2018-01-18 00:32:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1526.35 Mbit/s

95th percentile per-packet one-way delay: 169.776 ms

Loss rate: 11.27%

-- Flow 1:

Average throughput: 784.25 Mbit/s

95th percentile per-packet one-way delay: 168.214 ms

Loss rate: 10.23%

-- Flow 2:

Average throughput: 821.70 Mbit/s

95th percentile per-packet one-way delay: 151.561 ms

Loss rate: 7.95%

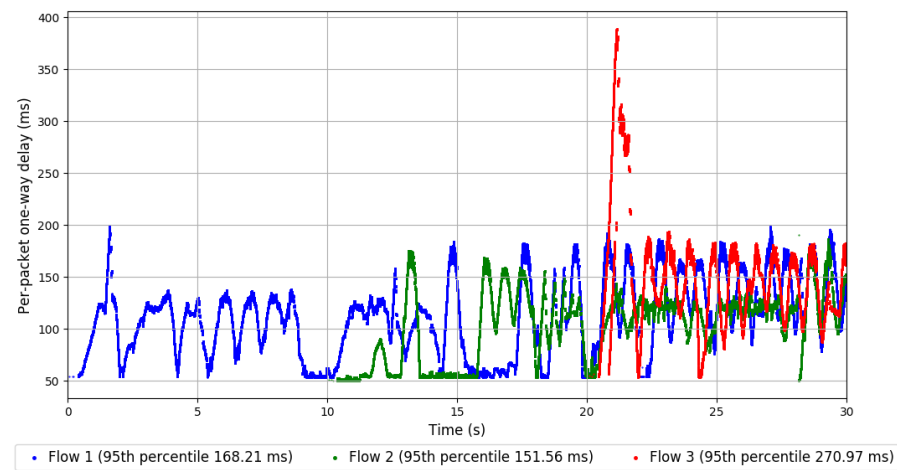
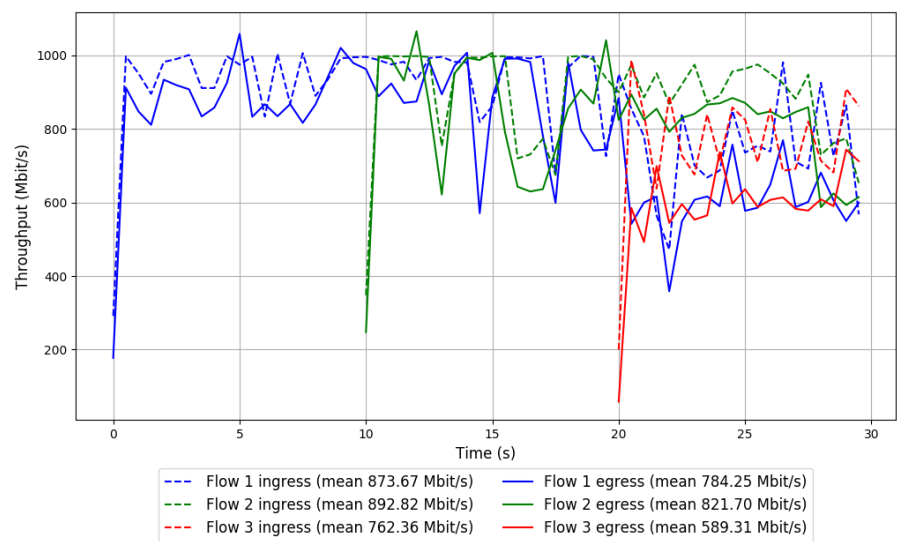
-- Flow 3:

Average throughput: 589.31 Mbit/s

95th percentile per-packet one-way delay: 270.973 ms

Loss rate: 22.70%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-17 19:24:46

End at: 2018-01-17 19:25:16

Below is generated by plot.py at 2018-01-18 00:32:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1302.19 Mbit/s

95th percentile per-packet one-way delay: 283.473 ms

Loss rate: 7.83%

-- Flow 1:

Average throughput: 847.20 Mbit/s

95th percentile per-packet one-way delay: 268.230 ms

Loss rate: 6.72%

-- Flow 2:

Average throughput: 391.70 Mbit/s

95th percentile per-packet one-way delay: 128.406 ms

Loss rate: 2.57%

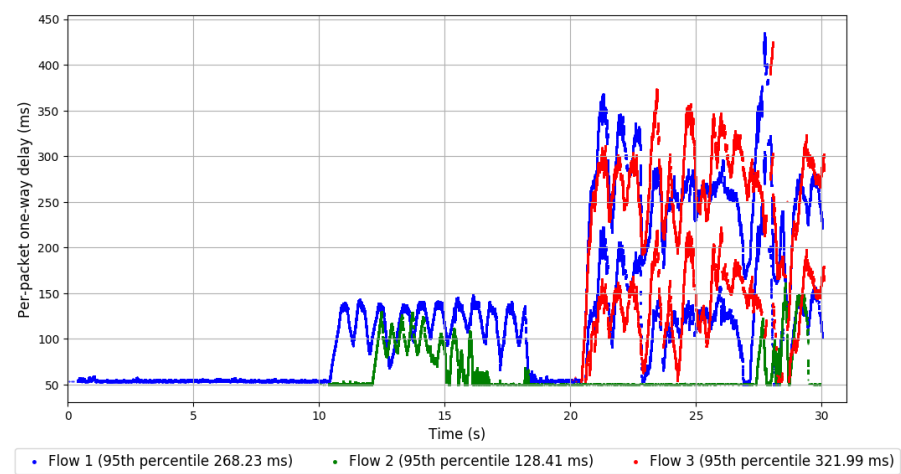
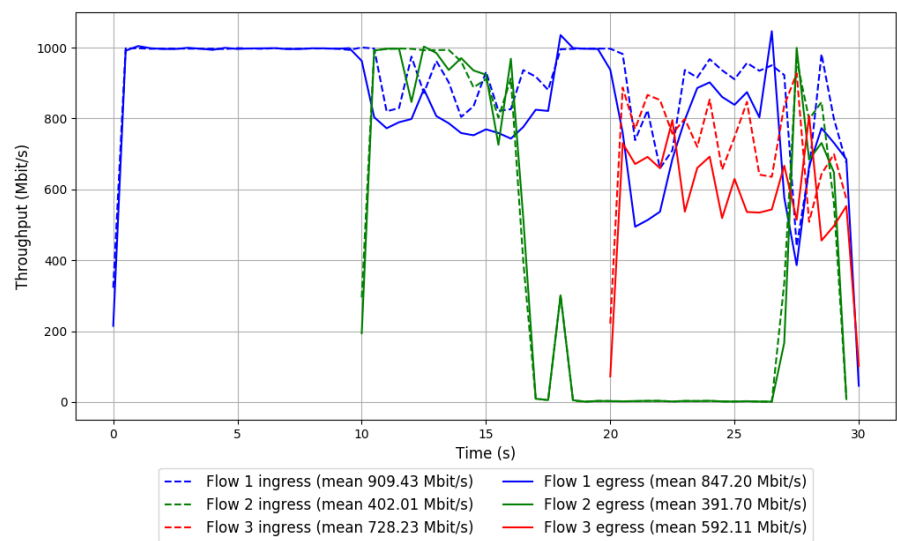
-- Flow 3:

Average throughput: 592.11 Mbit/s

95th percentile per-packet one-way delay: 321.992 ms

Loss rate: 17.82%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-17 19:41:48

End at: 2018-01-17 19:42:18

Below is generated by plot.py at 2018-01-18 00:32:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1288.39 Mbit/s

95th percentile per-packet one-way delay: 159.118 ms

Loss rate: 10.01%

-- Flow 1:

Average throughput: 814.28 Mbit/s

95th percentile per-packet one-way delay: 156.355 ms

Loss rate: 10.62%

-- Flow 2:

Average throughput: 321.74 Mbit/s

95th percentile per-packet one-way delay: 160.464 ms

Loss rate: 5.09%

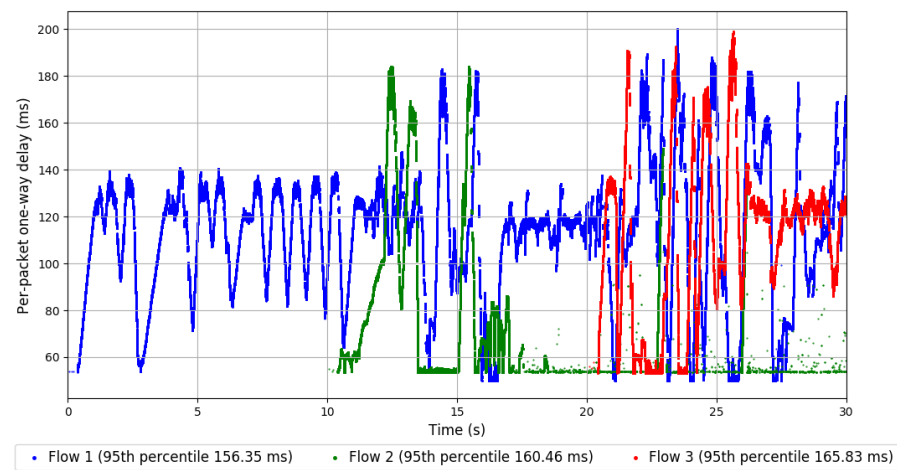
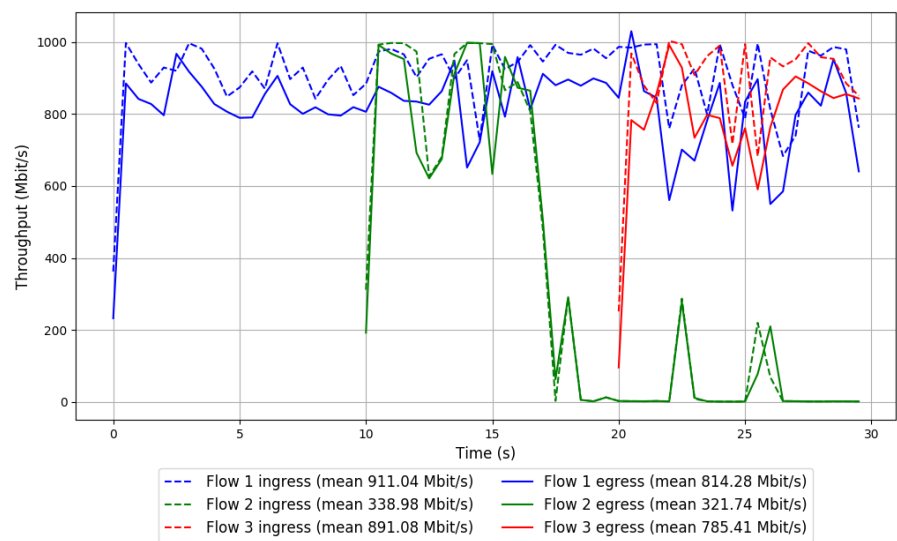
-- Flow 3:

Average throughput: 785.41 Mbit/s

95th percentile per-packet one-way delay: 165.826 ms

Loss rate: 11.88%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-17 19:58:21

End at: 2018-01-17 19:58:51

Below is generated by plot.py at 2018-01-18 00:32:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1394.63 Mbit/s

95th percentile per-packet one-way delay: 303.182 ms

Loss rate: 12.82%

-- Flow 1:

Average throughput: 734.07 Mbit/s

95th percentile per-packet one-way delay: 305.083 ms

Loss rate: 11.82%

-- Flow 2:

Average throughput: 704.58 Mbit/s

95th percentile per-packet one-way delay: 308.728 ms

Loss rate: 12.12%

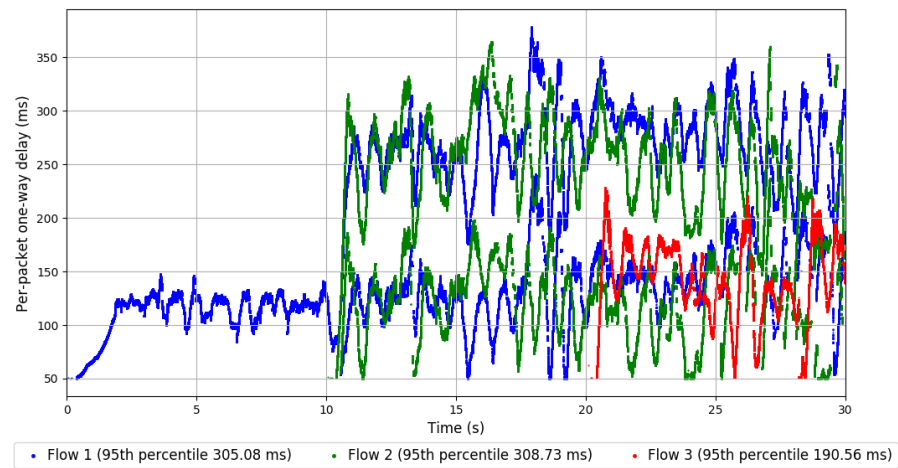
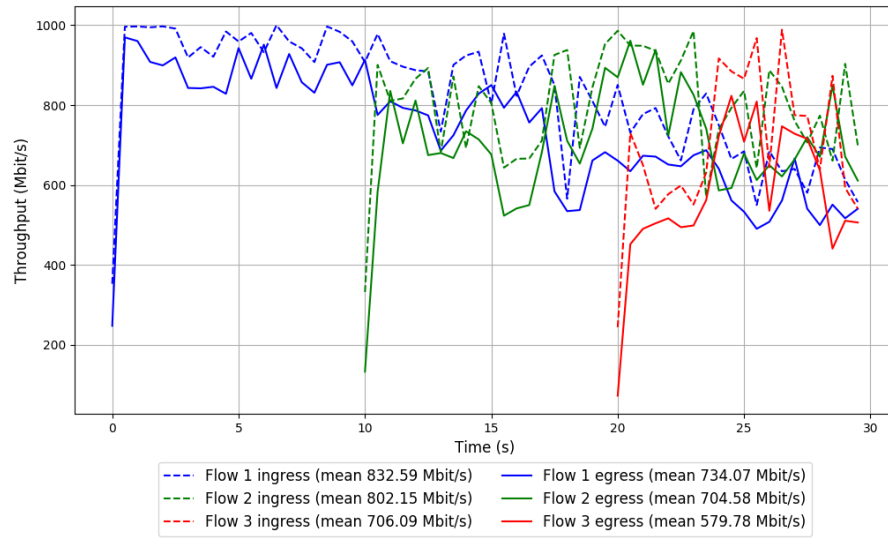
-- Flow 3:

Average throughput: 579.78 Mbit/s

95th percentile per-packet one-way delay: 190.559 ms

Loss rate: 17.95%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-17 20:15:17

End at: 2018-01-17 20:15:47

Below is generated by plot.py at 2018-01-18 00:36:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 1482.35 Mbit/s

95th percentile per-packet one-way delay: 185.035 ms

Loss rate: 10.37%

-- Flow 1:

Average throughput: 785.24 Mbit/s

95th percentile per-packet one-way delay: 146.704 ms

Loss rate: 7.52%

-- Flow 2:

Average throughput: 685.60 Mbit/s

95th percentile per-packet one-way delay: 201.629 ms

Loss rate: 14.15%

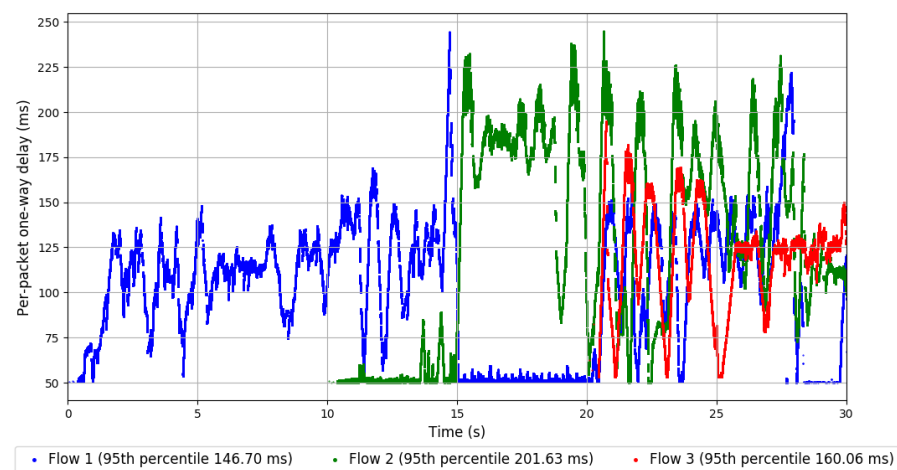
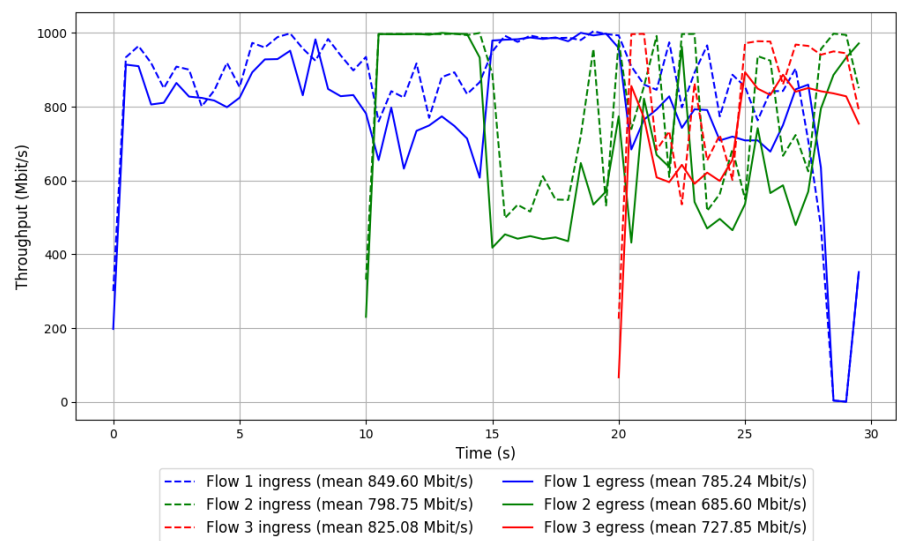
-- Flow 3:

Average throughput: 727.85 Mbit/s

95th percentile per-packet one-way delay: 160.061 ms

Loss rate: 11.86%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-17 20:32:16

End at: 2018-01-17 20:32:46

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 1639.02 Mbit/s

95th percentile per-packet one-way delay: 148.903 ms

Loss rate: 8.62%

-- Flow 1:

Average throughput: 885.04 Mbit/s

95th percentile per-packet one-way delay: 149.161 ms

Loss rate: 5.27%

-- Flow 2:

Average throughput: 786.00 Mbit/s

95th percentile per-packet one-way delay: 148.491 ms

Loss rate: 11.09%

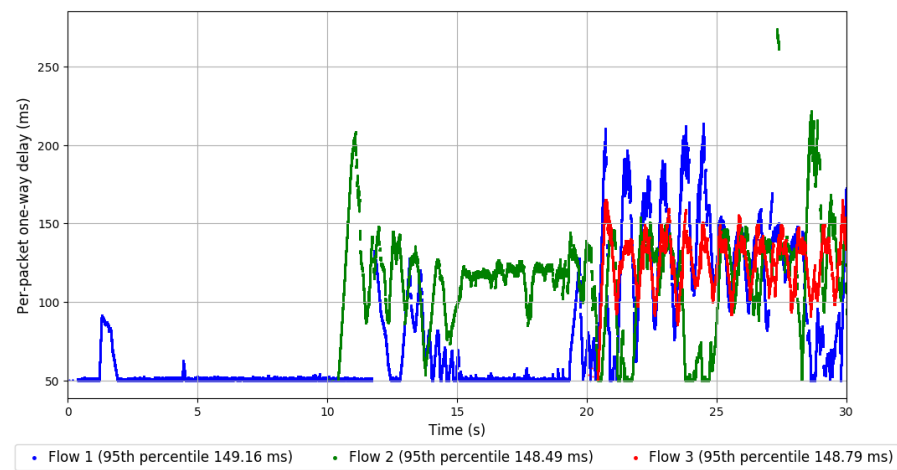
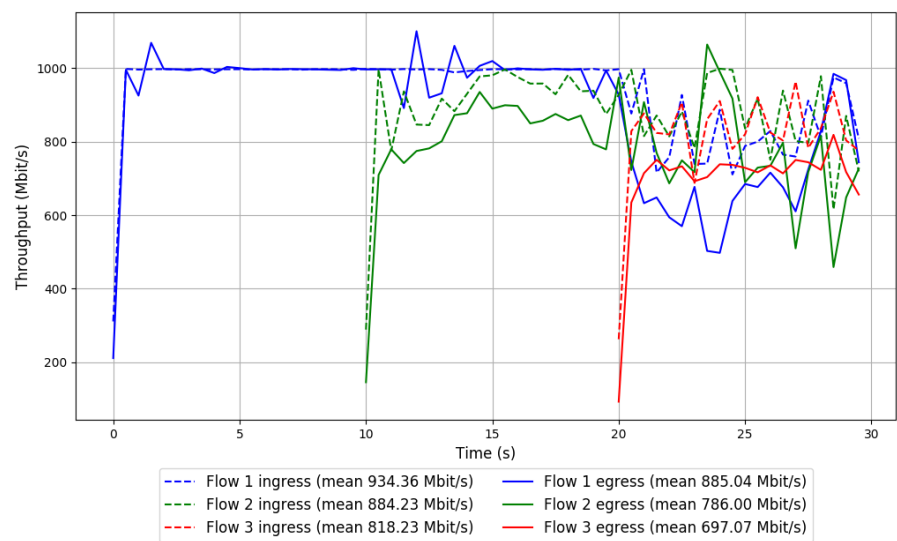
-- Flow 3:

Average throughput: 697.07 Mbit/s

95th percentile per-packet one-way delay: 148.795 ms

Loss rate: 14.81%

Run 9: Report of FillP — Data Link

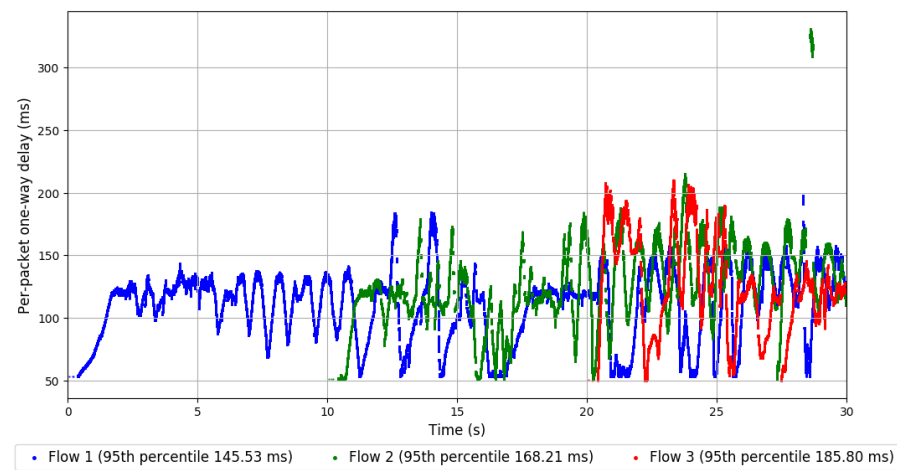
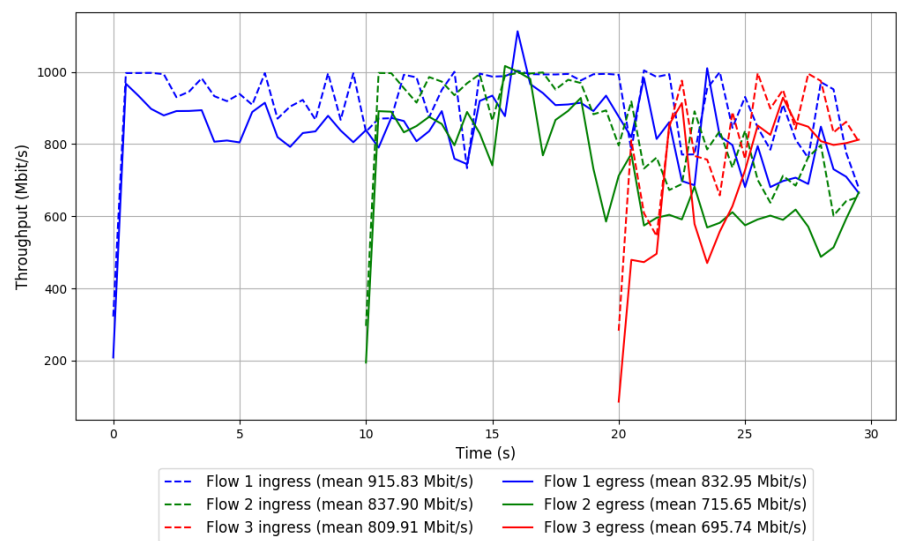


```
Run 10: Statistics of FillP

Start at: 2018-01-17 20:48:35
End at: 2018-01-17 20:49:05

# Below is generated by plot.py at 2018-01-18 01:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1539.73 Mbit/s
95th percentile per-packet one-way delay: 163.542 ms
Loss rate: 11.59%
-- Flow 1:
Average throughput: 832.95 Mbit/s
95th percentile per-packet one-way delay: 145.535 ms
Loss rate: 9.05%
-- Flow 2:
Average throughput: 715.65 Mbit/s
95th percentile per-packet one-way delay: 168.209 ms
Loss rate: 14.58%
-- Flow 3:
Average throughput: 695.74 Mbit/s
95th percentile per-packet one-way delay: 185.796 ms
Loss rate: 14.07%
```

Run 10: Report of FillP — Data Link

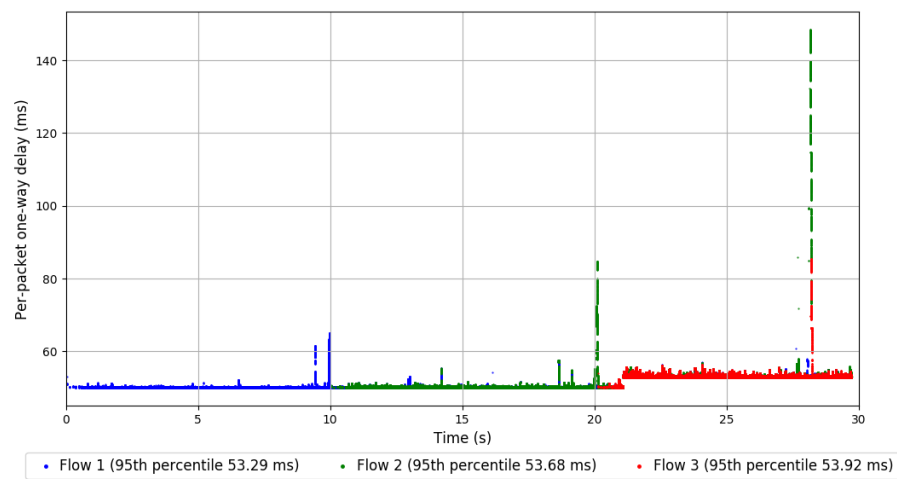
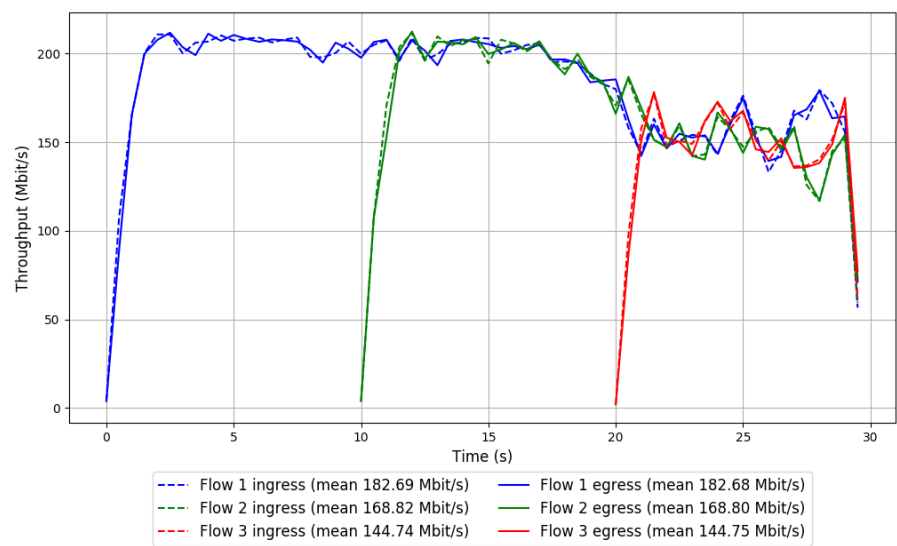


```
Run 1: Statistics of Indigo

Start at: 2018-01-17 18:21:01
End at: 2018-01-17 18:21:31

# Below is generated by plot.py at 2018-01-18 01:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.42 Mbit/s
95th percentile per-packet one-way delay: 53.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.68 Mbit/s
95th percentile per-packet one-way delay: 53.288 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 168.80 Mbit/s
95th percentile per-packet one-way delay: 53.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 144.75 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-17 18:37:57

End at: 2018-01-17 18:38:27

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.20 Mbit/s

95th percentile per-packet one-way delay: 53.596 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.76 Mbit/s

95th percentile per-packet one-way delay: 53.519 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.62 Mbit/s

95th percentile per-packet one-way delay: 53.568 ms

Loss rate: 0.00%

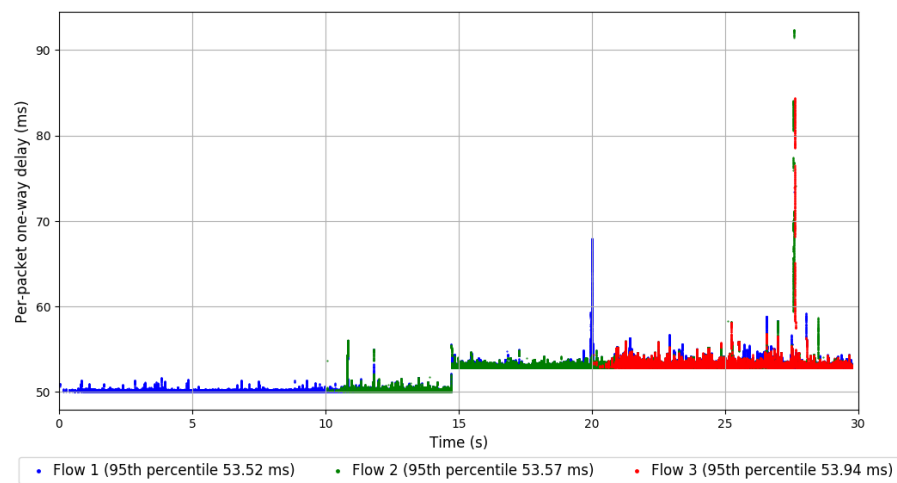
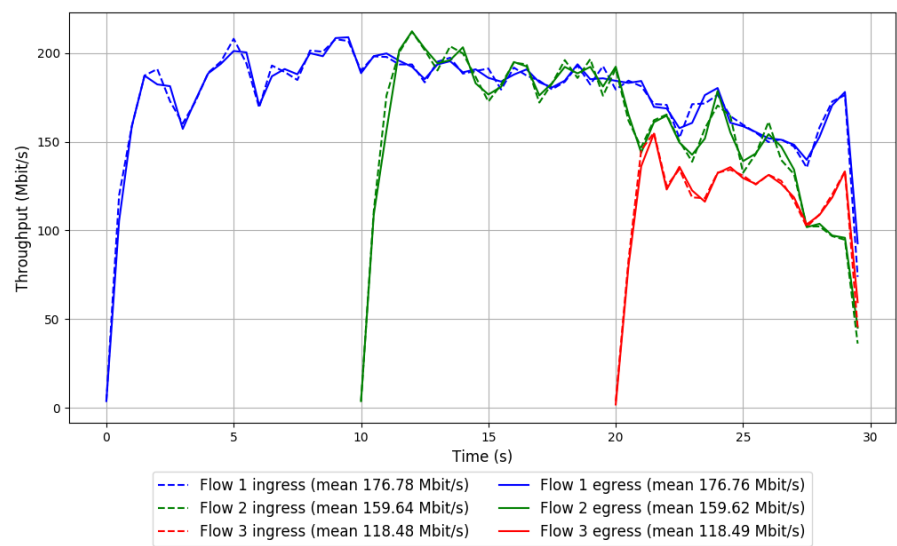
-- Flow 3:

Average throughput: 118.49 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-17 18:54:38

End at: 2018-01-17 18:55:08

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.79 Mbit/s

95th percentile per-packet one-way delay: 53.763 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.18 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.14 Mbit/s

95th percentile per-packet one-way delay: 54.010 ms

Loss rate: 0.00%

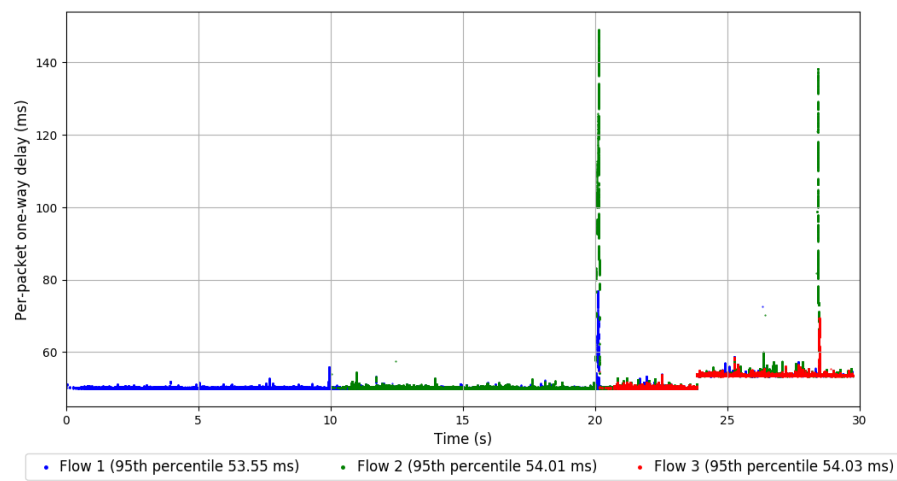
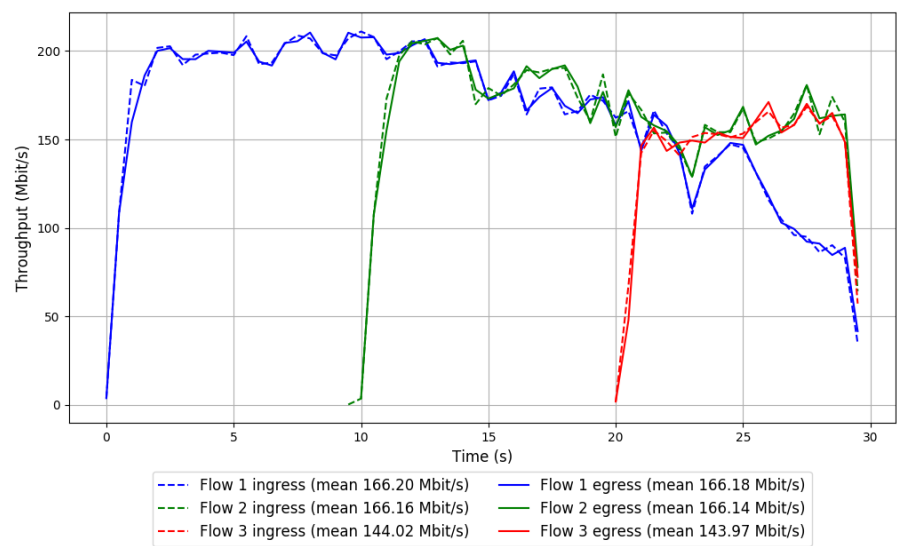
-- Flow 3:

Average throughput: 143.97 Mbit/s

95th percentile per-packet one-way delay: 54.031 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

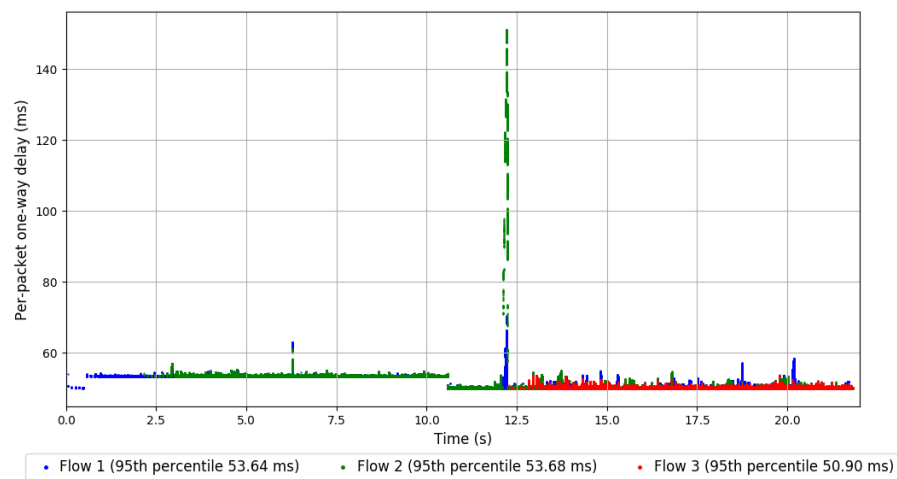
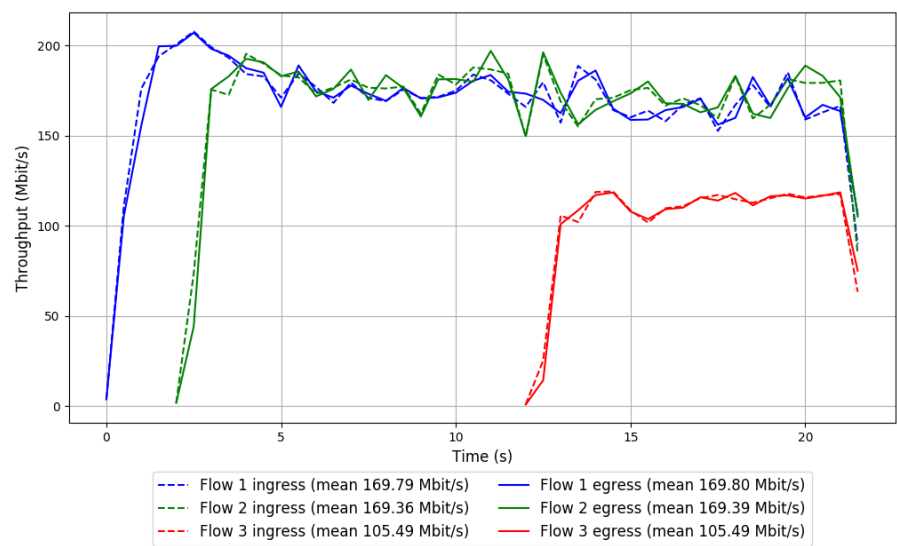


Run 4: Statistics of Indigo

Start at: 2018-01-17 19:11:14

End at: 2018-01-17 19:11:44

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-17 19:28:10

End at: 2018-01-17 19:28:40

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.07 Mbit/s

95th percentile per-packet one-way delay: 50.805 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.12 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.96 Mbit/s

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

Loss rate: 0.00%

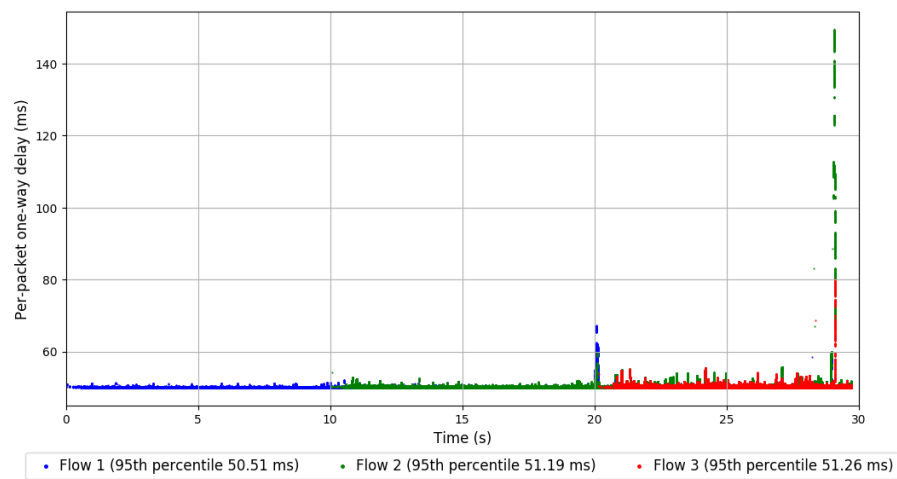
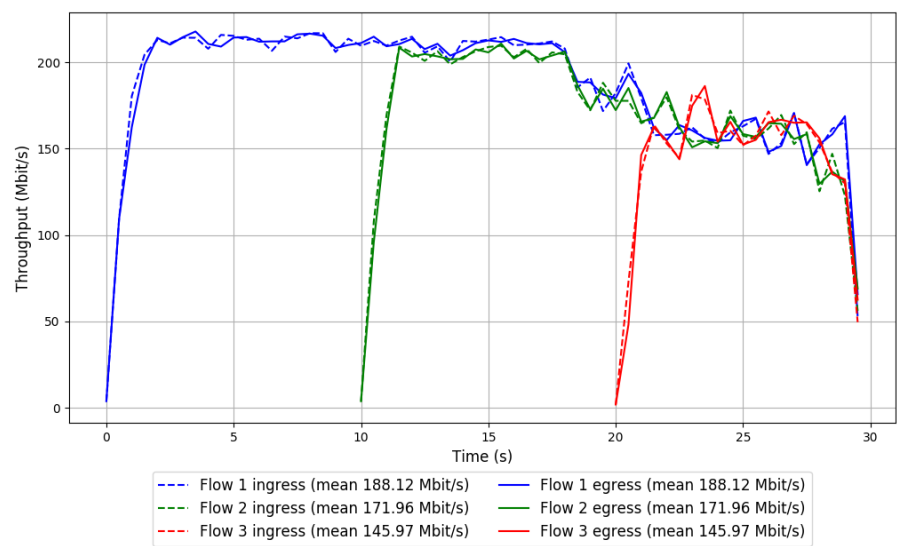
-- Flow 3:

Average throughput: 145.97 Mbit/s

95th percentile per-packet one-way delay: 51.262 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-17 19:45:11

End at: 2018-01-17 19:45:41

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.85 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.55 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.52 Mbit/s

95th percentile per-packet one-way delay: 51.839 ms

Loss rate: 0.00%

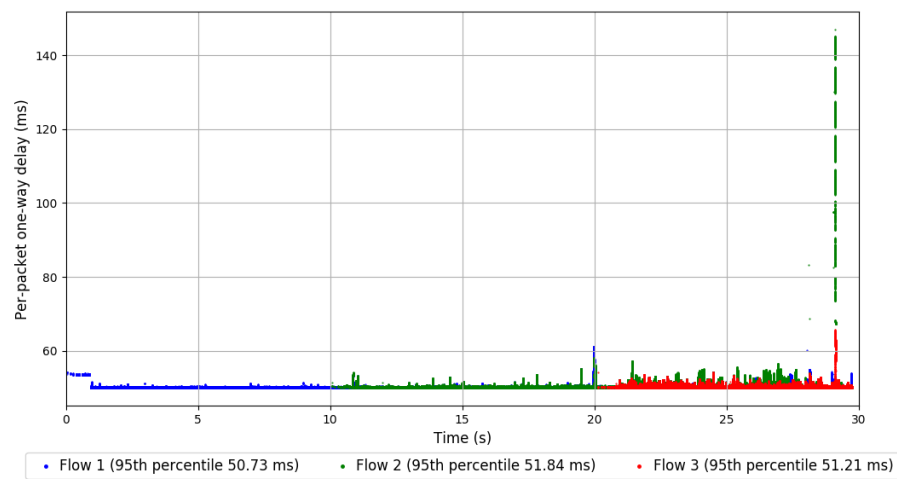
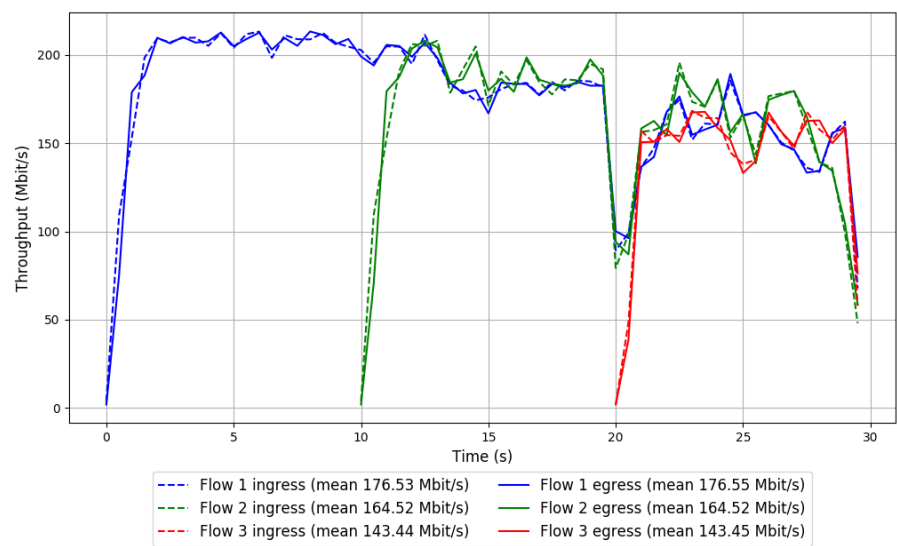
-- Flow 3:

Average throughput: 143.45 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-17 20:01:55

End at: 2018-01-17 20:02:25

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.75 Mbit/s

95th percentile per-packet one-way delay: 54.972 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 186.29 Mbit/s

95th percentile per-packet one-way delay: 54.569 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 164.14 Mbit/s

95th percentile per-packet one-way delay: 55.110 ms

Loss rate: 0.00%

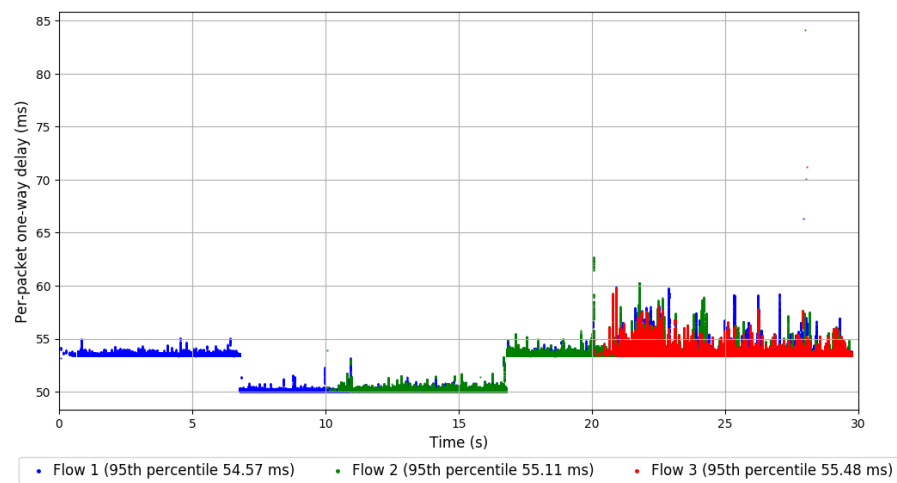
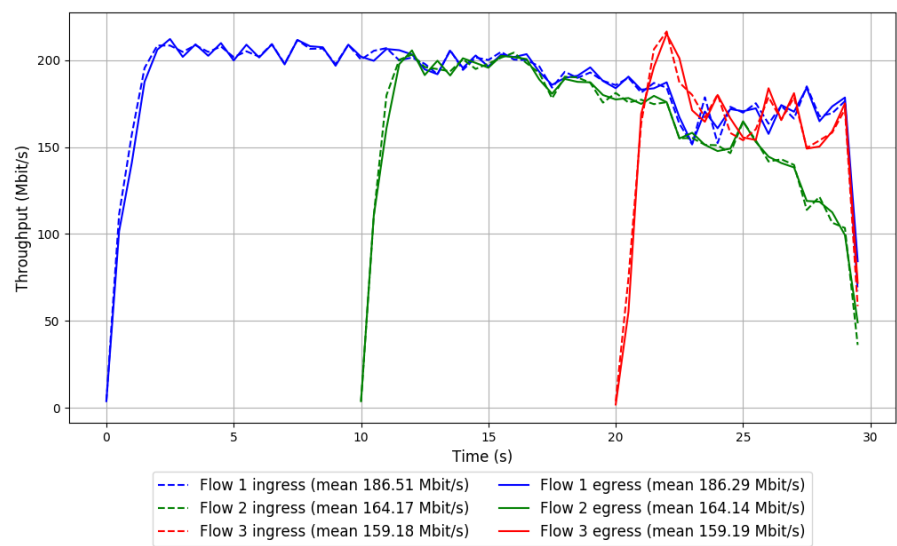
-- Flow 3:

Average throughput: 159.19 Mbit/s

95th percentile per-packet one-way delay: 55.485 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-17 20:18:47

End at: 2018-01-17 20:19:17

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.89 Mbit/s

95th percentile per-packet one-way delay: 53.812 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.26 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 176.15 Mbit/s

95th percentile per-packet one-way delay: 53.861 ms

Loss rate: 0.00%

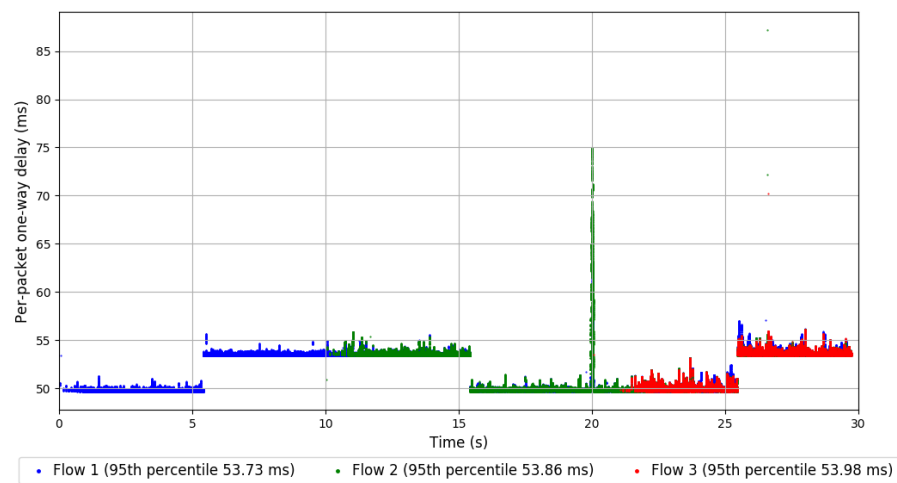
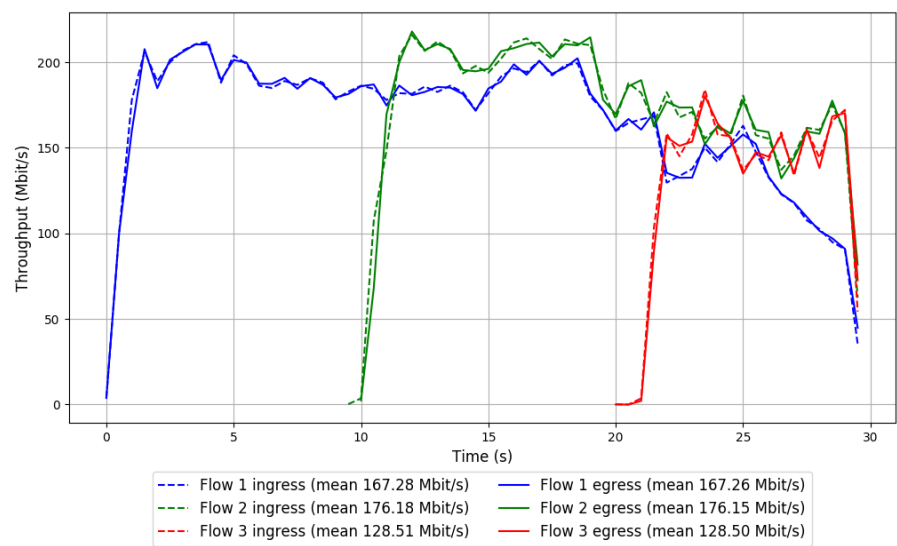
-- Flow 3:

Average throughput: 128.50 Mbit/s

95th percentile per-packet one-way delay: 53.984 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-17 20:35:48

End at: 2018-01-17 20:36:18

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.60 Mbit/s

95th percentile per-packet one-way delay: 54.860 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.07 Mbit/s

95th percentile per-packet one-way delay: 54.272 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.85 Mbit/s

95th percentile per-packet one-way delay: 54.979 ms

Loss rate: 0.00%

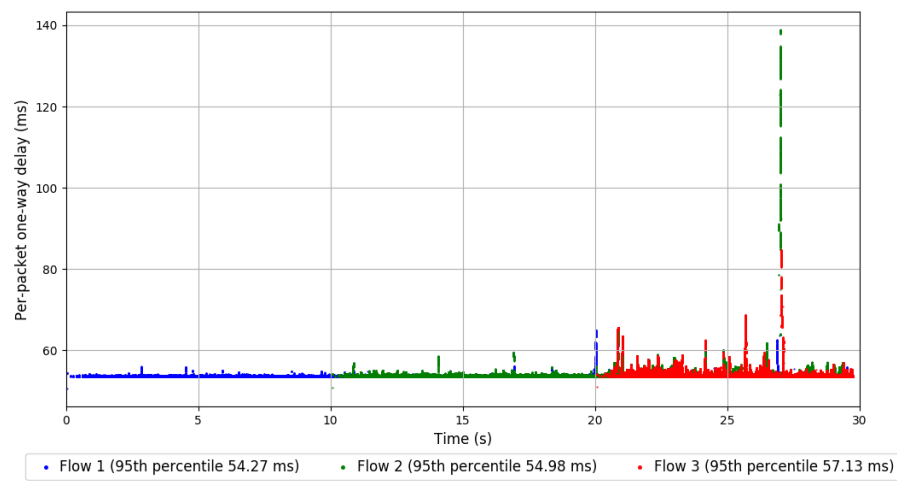
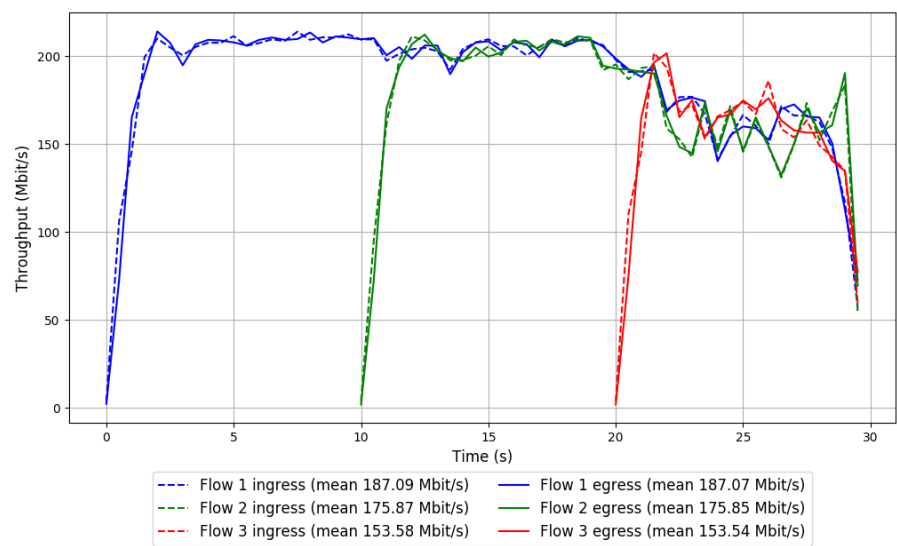
-- Flow 3:

Average throughput: 153.54 Mbit/s

95th percentile per-packet one-way delay: 57.133 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-17 20:52:07

End at: 2018-01-17 20:52:38

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.79 Mbit/s

95th percentile per-packet one-way delay: 52.968 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.28 Mbit/s

95th percentile per-packet one-way delay: 52.997 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.32 Mbit/s

95th percentile per-packet one-way delay: 51.049 ms

Loss rate: 0.00%

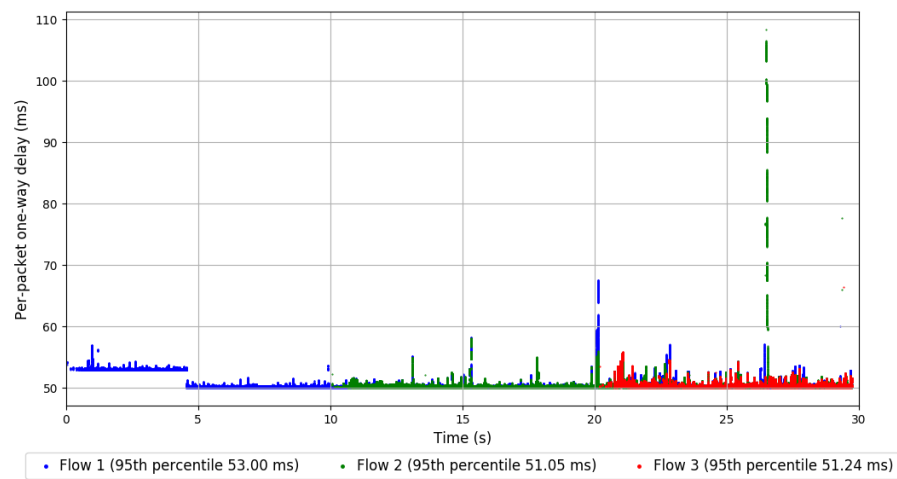
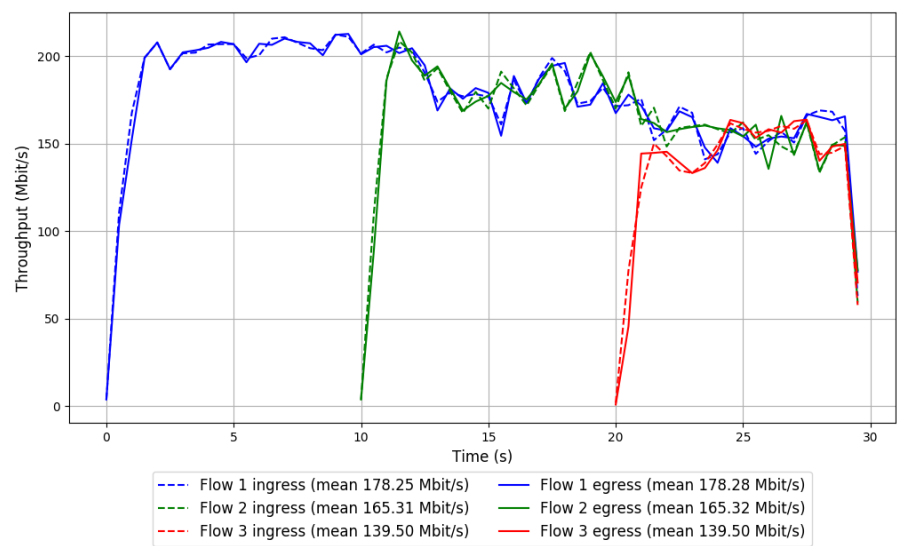
-- Flow 3:

Average throughput: 139.50 Mbit/s

95th percentile per-packet one-way delay: 51.241 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

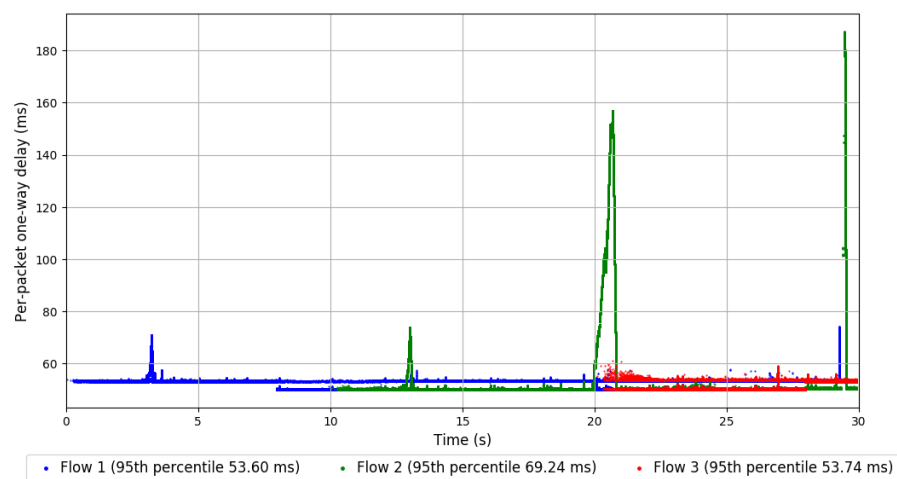
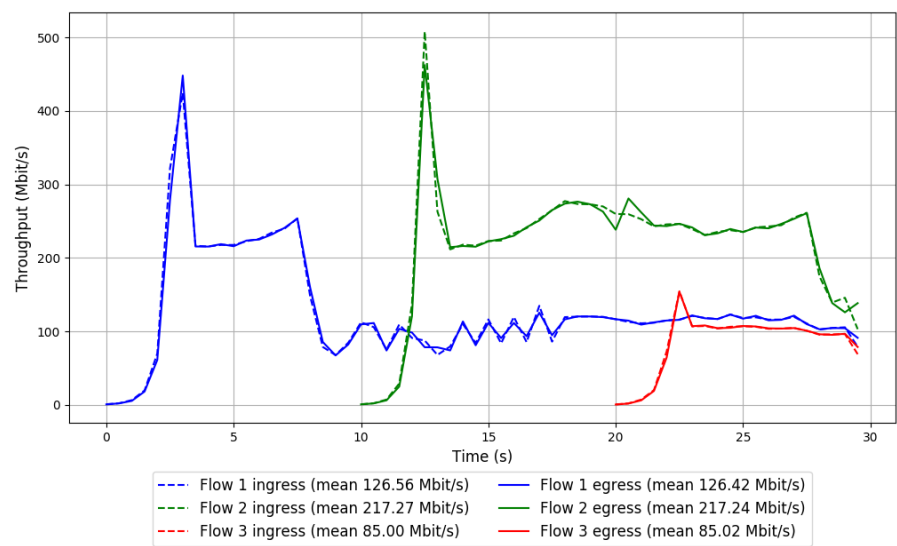


```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-17 18:23:54
End at: 2018-01-17 18:24:24

# Below is generated by plot.py at 2018-01-18 01:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.72 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 126.42 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 217.24 Mbit/s
95th percentile per-packet one-way delay: 69.242 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.02 Mbit/s
95th percentile per-packet one-way delay: 53.745 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-17 18:40:51

End at: 2018-01-17 18:41:21

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.77 Mbit/s

95th percentile per-packet one-way delay: 53.962 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 143.79 Mbit/s

95th percentile per-packet one-way delay: 53.028 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 222.16 Mbit/s

95th percentile per-packet one-way delay: 58.787 ms

Loss rate: 0.00%

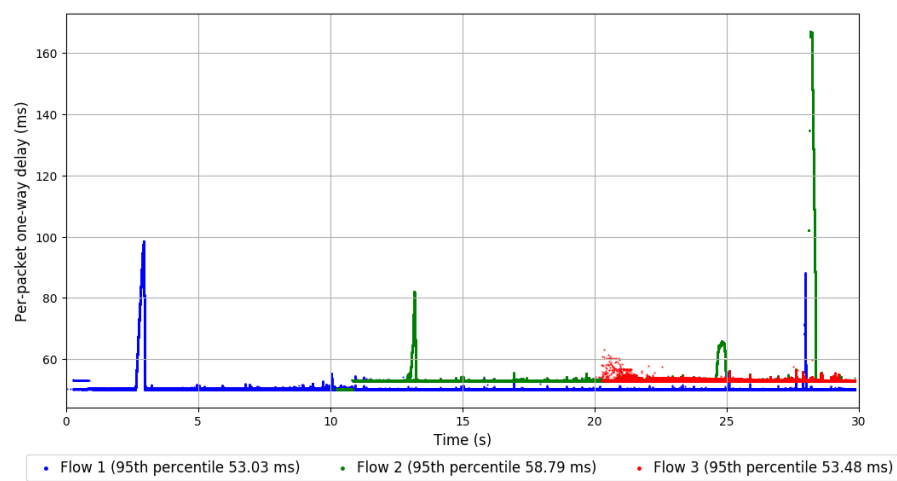
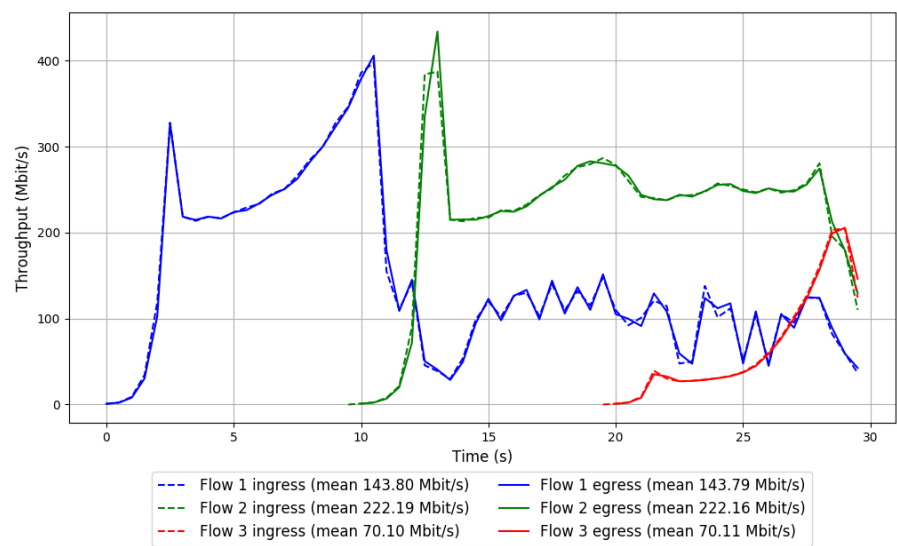
-- Flow 3:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-17 18:57:30

End at: 2018-01-17 18:58:00

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.56 Mbit/s

95th percentile per-packet one-way delay: 55.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.11 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.58 Mbit/s

95th percentile per-packet one-way delay: 67.612 ms

Loss rate: 0.00%

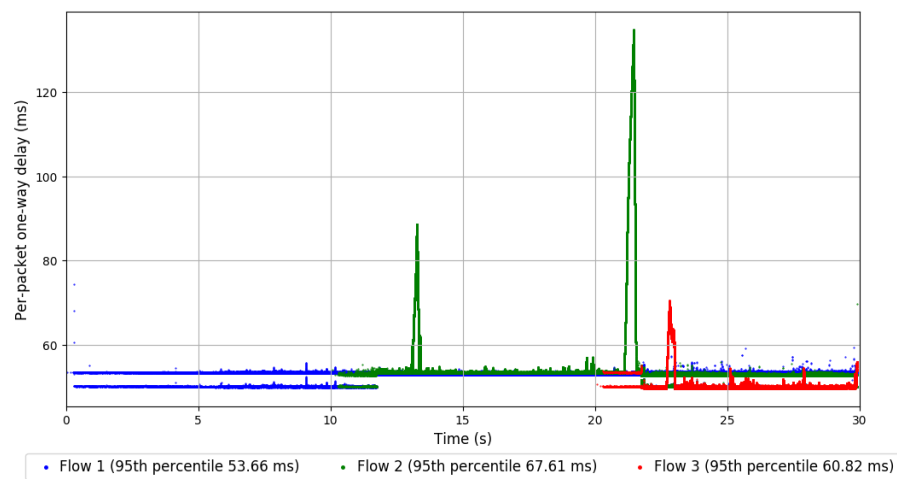
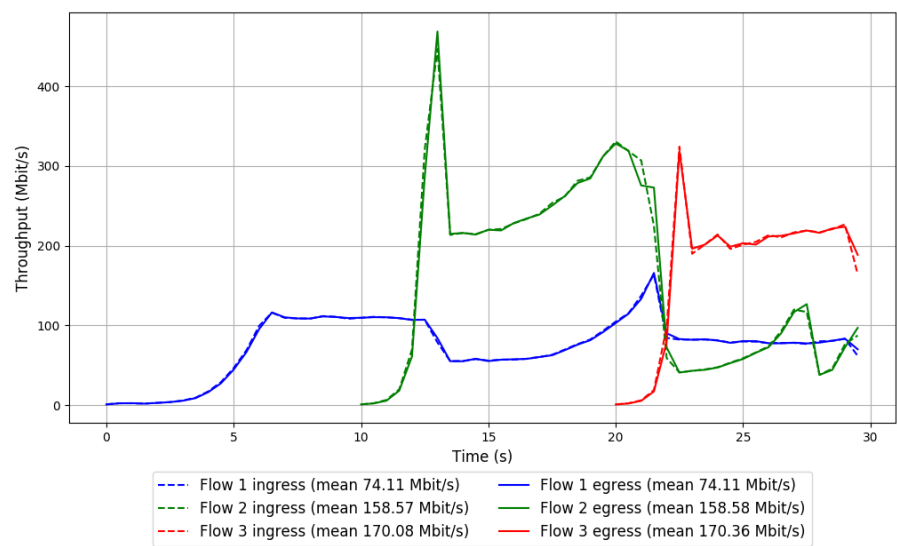
-- Flow 3:

Average throughput: 170.36 Mbit/s

95th percentile per-packet one-way delay: 60.824 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-17 19:14:02

End at: 2018-01-17 19:14:32

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.58 Mbit/s

95th percentile per-packet one-way delay: 53.682 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 120.38 Mbit/s

95th percentile per-packet one-way delay: 53.664 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.21 Mbit/s

95th percentile per-packet one-way delay: 57.090 ms

Loss rate: 0.00%

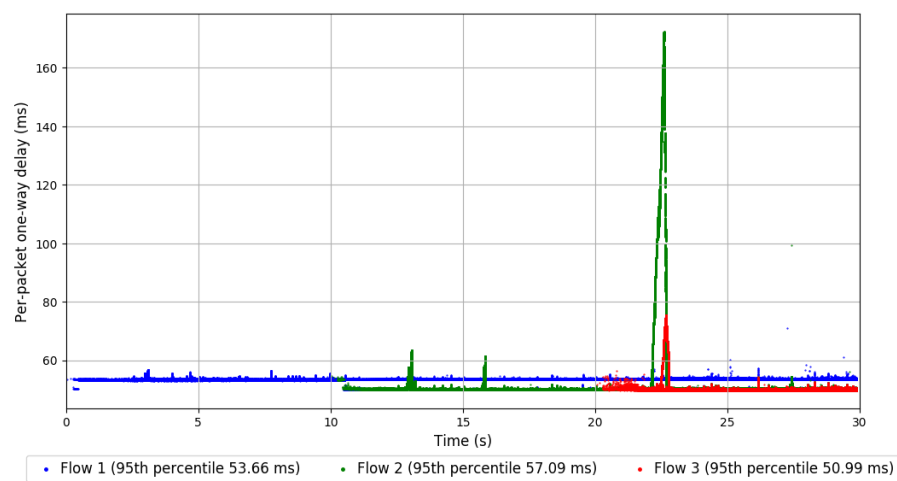
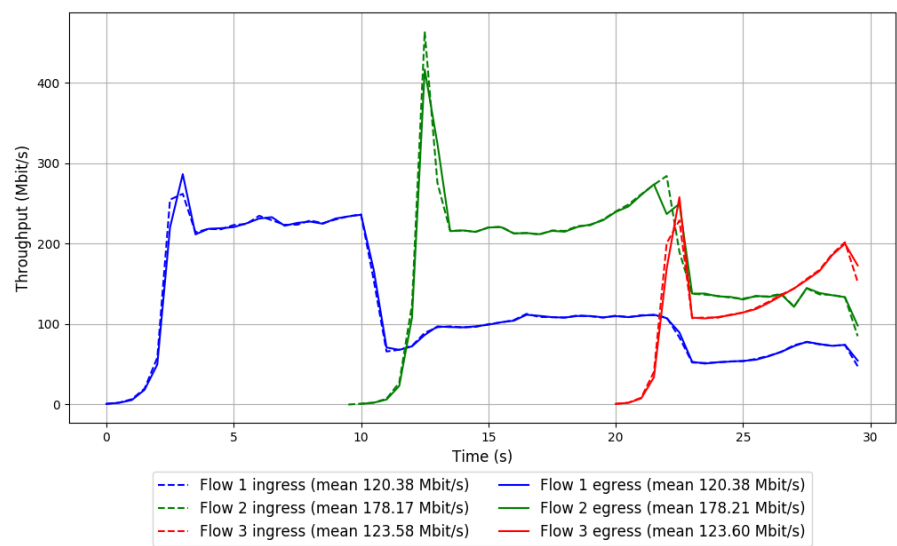
-- Flow 3:

Average throughput: 123.60 Mbit/s

95th percentile per-packet one-way delay: 50.995 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-17 19:31:02

End at: 2018-01-17 19:31:32

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.66 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 226.91 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.19 Mbit/s

95th percentile per-packet one-way delay: 157.789 ms

Loss rate: 0.16%

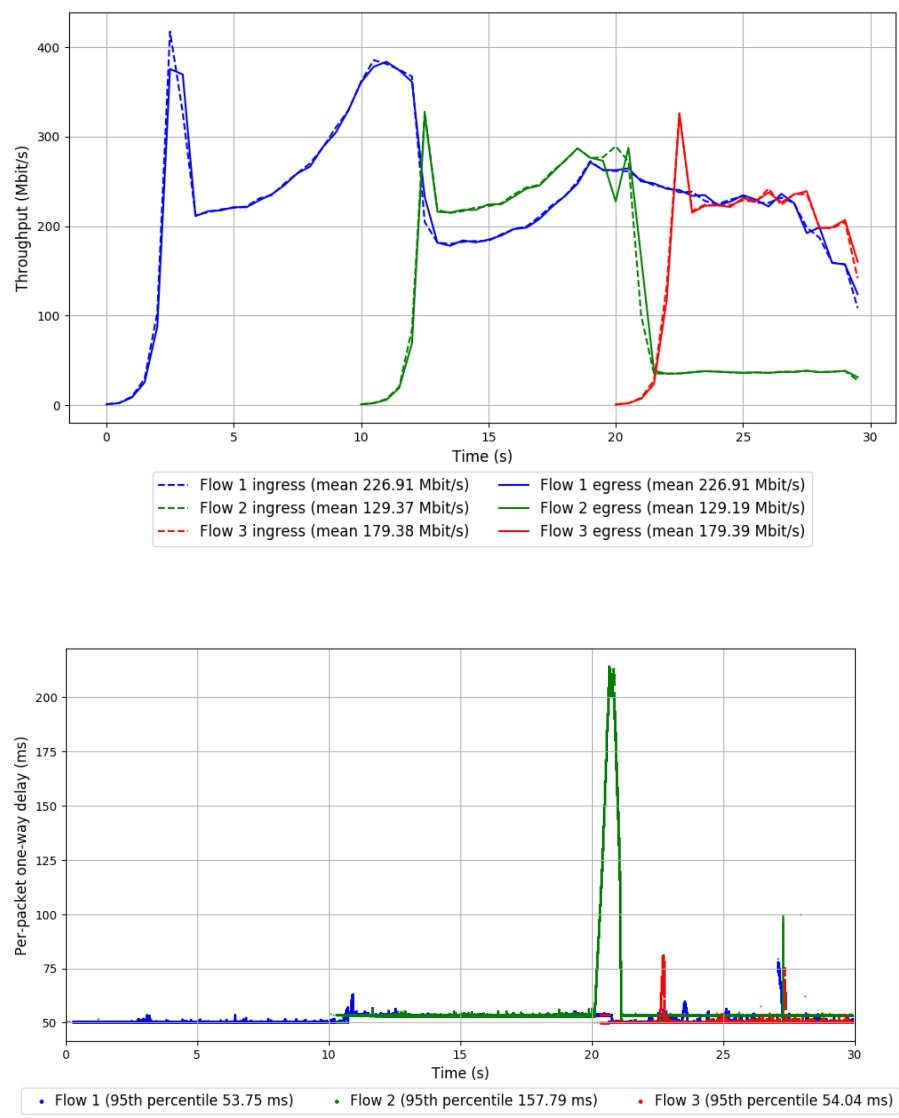
-- Flow 3:

Average throughput: 179.39 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-17 19:48:04

End at: 2018-01-17 19:48:34

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.49 Mbit/s

95th percentile per-packet one-way delay: 53.778 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.52 Mbit/s

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

Loss rate: 0.00%

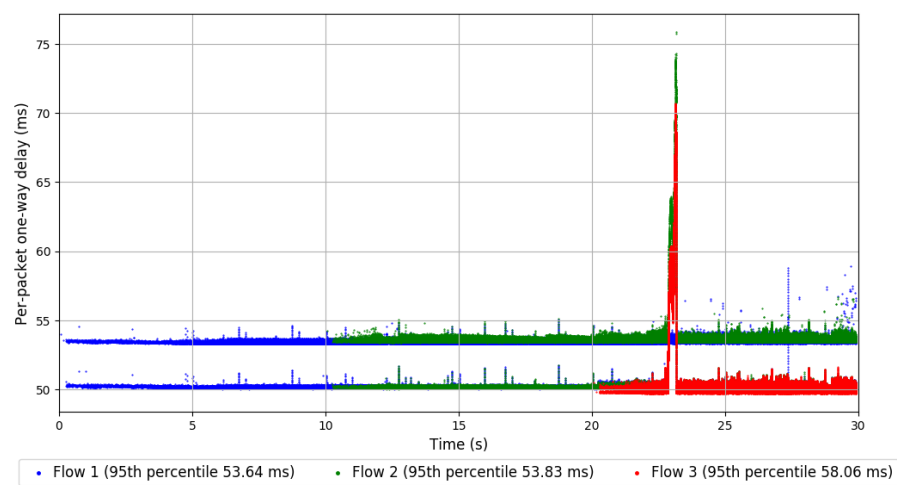
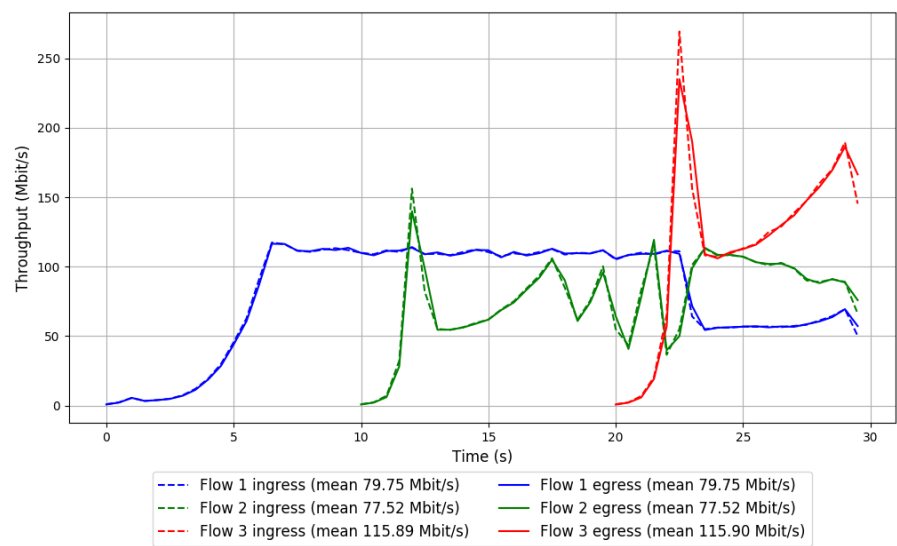
-- Flow 3:

Average throughput: 115.90 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-17 20:04:47

End at: 2018-01-17 20:05:17

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.42 Mbit/s

95th percentile per-packet one-way delay: 53.630 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.00%

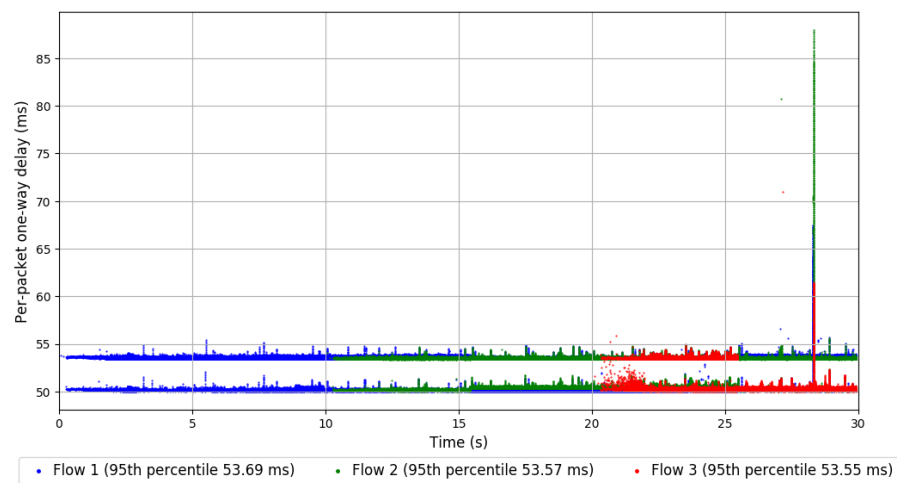
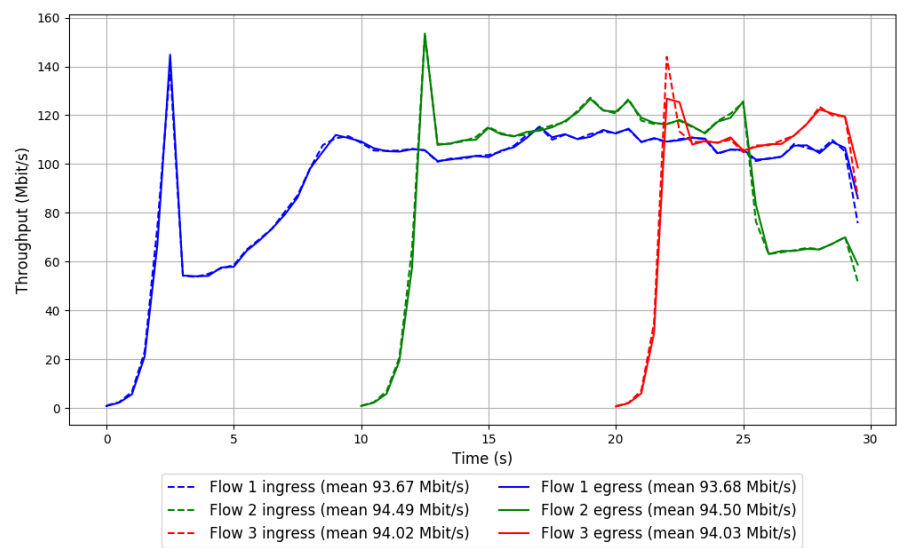
-- Flow 3:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-17 20:21:40

End at: 2018-01-17 20:22:10

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.91 Mbit/s

95th percentile per-packet one-way delay: 53.579 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 93.13 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 160.72 Mbit/s

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

Loss rate: 0.19%

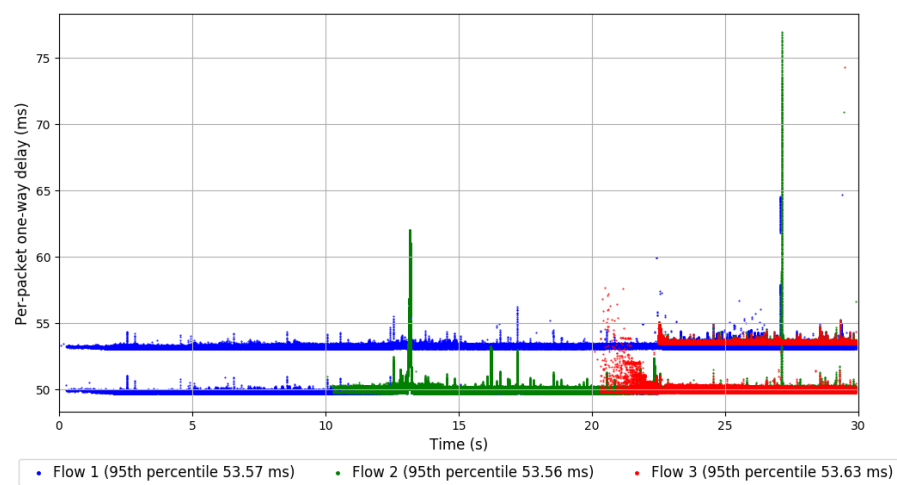
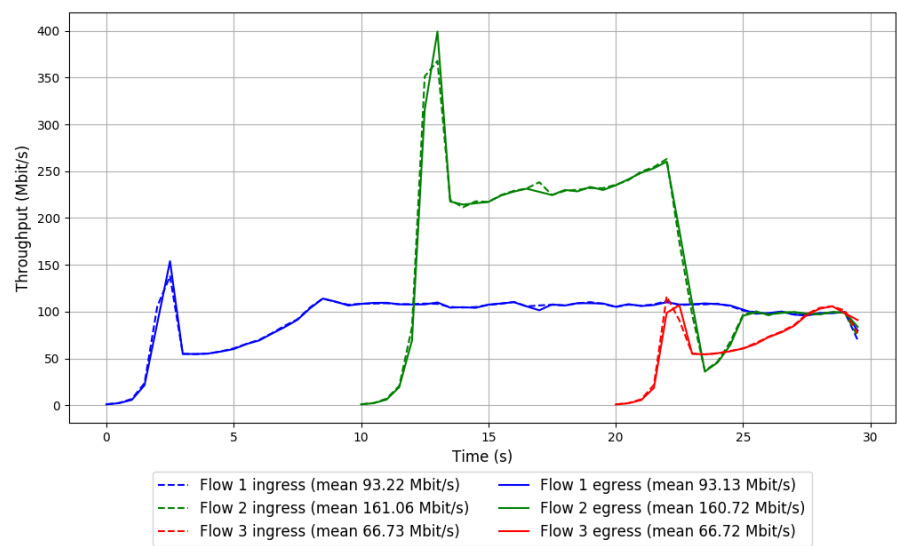
-- Flow 3:

Average throughput: 66.72 Mbit/s

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

Loss rate: 0.01%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-17 20:38:42

End at: 2018-01-17 20:39:12

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.87 Mbit/s

95th percentile per-packet one-way delay: 63.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.81 Mbit/s

95th percentile per-packet one-way delay: 53.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 221.45 Mbit/s

95th percentile per-packet one-way delay: 69.244 ms

Loss rate: 0.00%

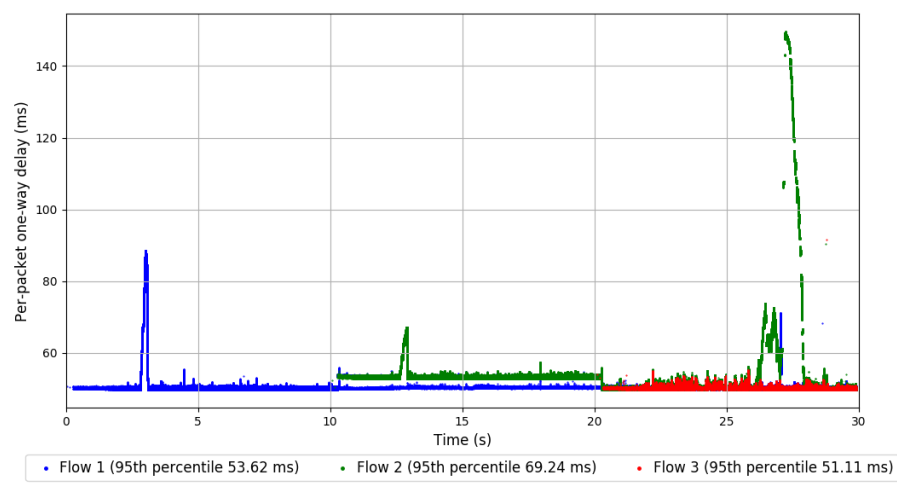
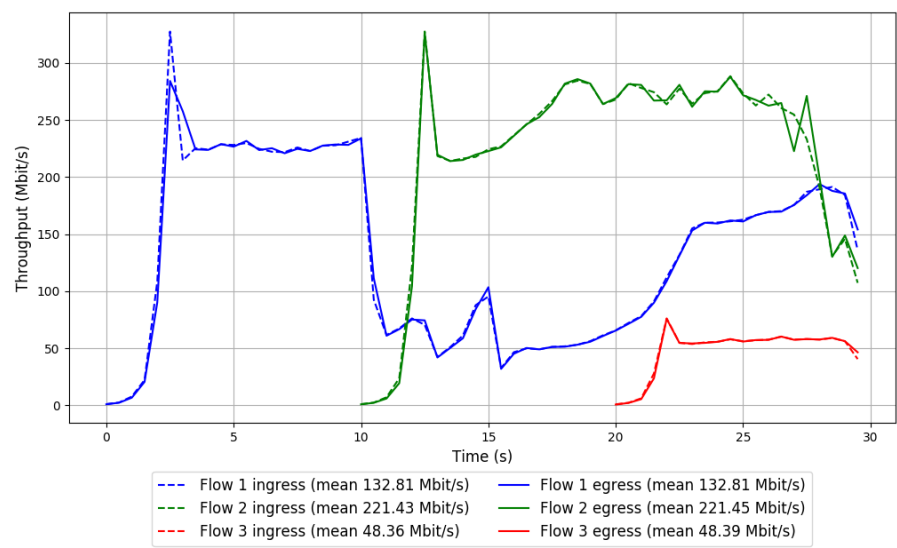
-- Flow 3:

Average throughput: 48.39 Mbit/s

95th percentile per-packet one-way delay: 51.114 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-17 20:55:02

End at: 2018-01-17 20:55:32

Below is generated by plot.py at 2018-01-18 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.04 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 105.55 Mbit/s

95th percentile per-packet one-way delay: 53.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 53.059 ms

Loss rate: 0.00%

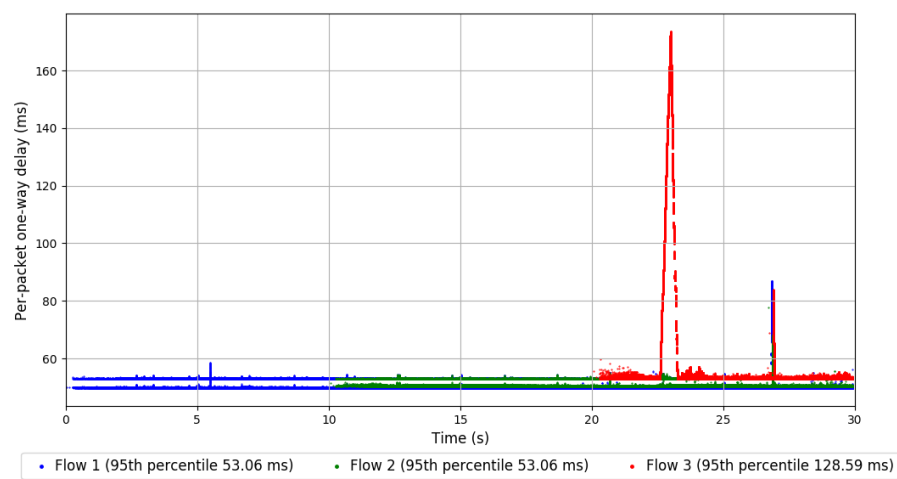
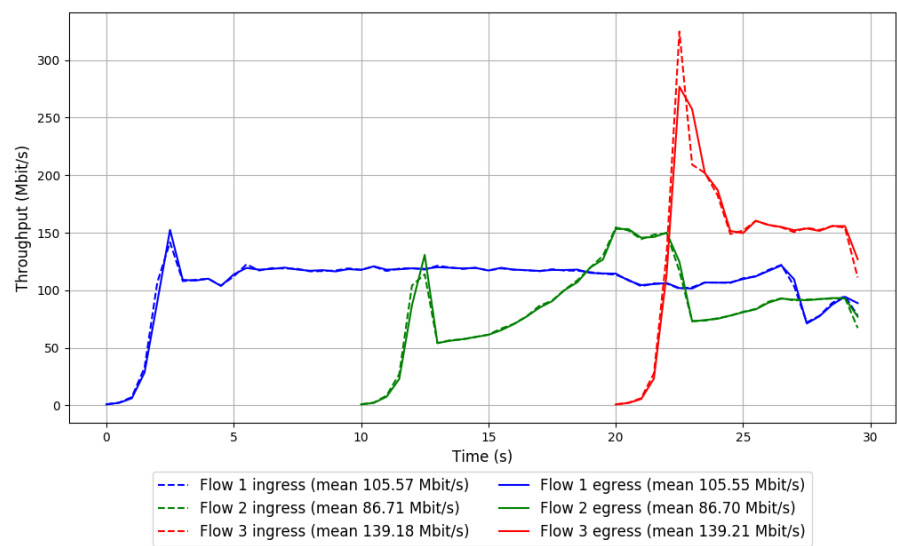
-- Flow 3:

Average throughput: 139.21 Mbit/s

95th percentile per-packet one-way delay: 128.588 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

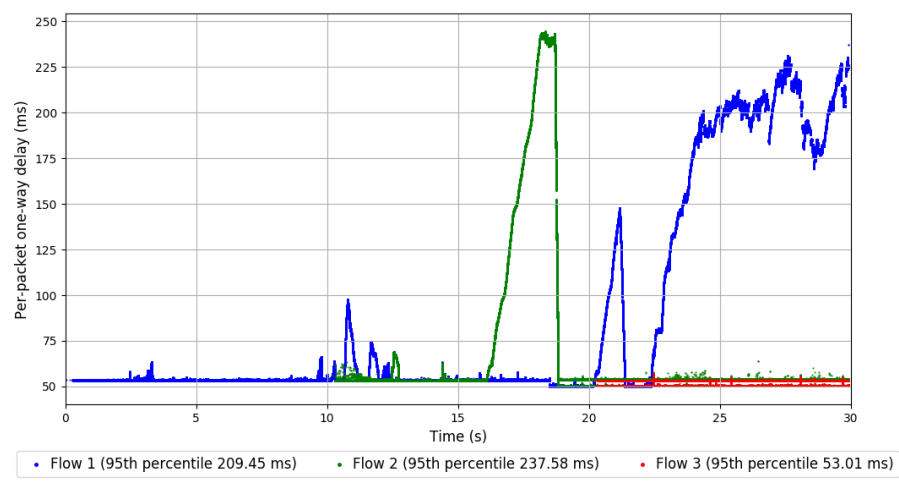
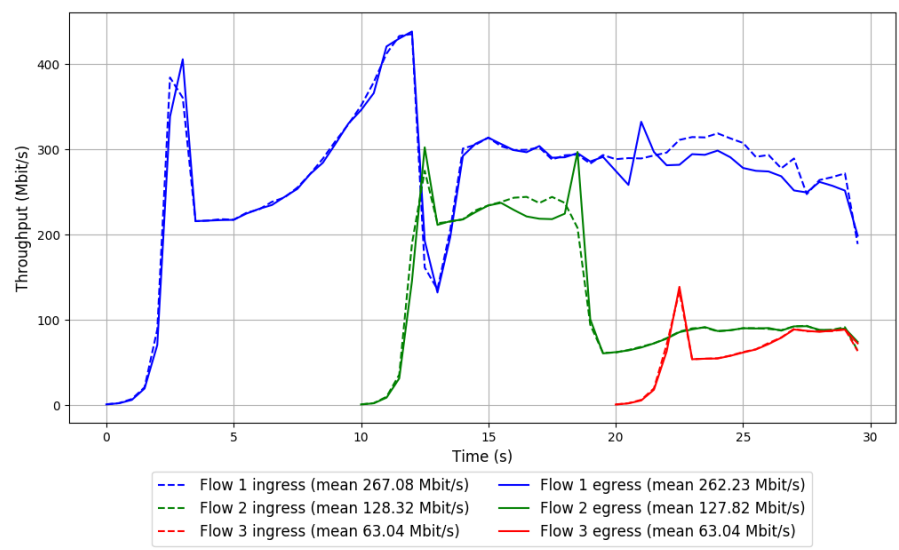


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-17 18:27:14
End at: 2018-01-17 18:27:44

# Below is generated by plot.py at 2018-01-18 01:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.91 Mbit/s
95th percentile per-packet one-way delay: 210.979 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 262.23 Mbit/s
95th percentile per-packet one-way delay: 209.449 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 127.82 Mbit/s
95th percentile per-packet one-way delay: 237.577 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 53.011 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

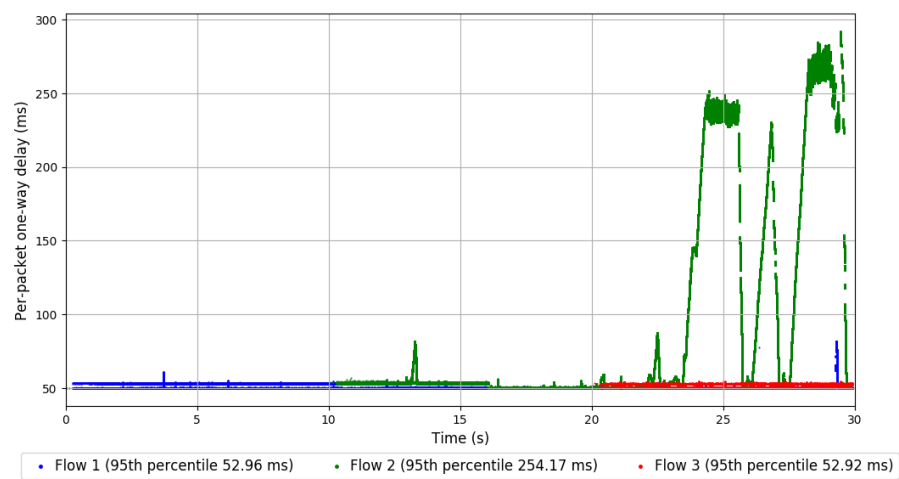
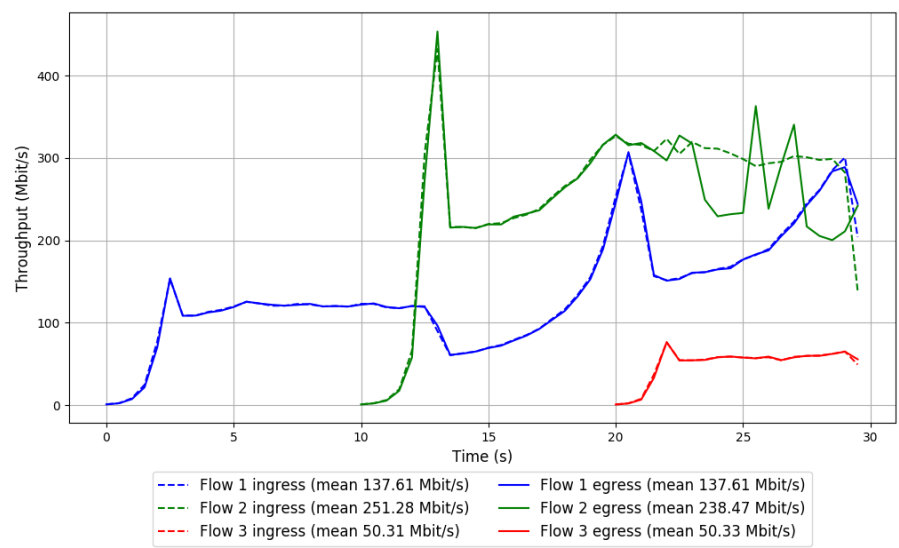


```
Run 2: Statistics of Vivace-loss

Start at: 2018-01-17 18:44:16
End at: 2018-01-17 18:44:46

# Below is generated by plot.py at 2018-01-18 01:06:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.53 Mbit/s
95th percentile per-packet one-way delay: 236.088 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 137.61 Mbit/s
95th percentile per-packet one-way delay: 52.959 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 238.47 Mbit/s
95th percentile per-packet one-way delay: 254.173 ms
Loss rate: 5.12%
-- Flow 3:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 52.923 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-17 19:00:47

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

Below is generated by plot.py at 2018-01-18 01:06:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.50 Mbit/s

95th percentile per-packet one-way delay: 55.558 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 213.50 Mbit/s

95th percentile per-packet one-way delay: 63.183 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 89.33 Mbit/s

95th percentile per-packet one-way delay: 53.539 ms

Loss rate: 0.00%

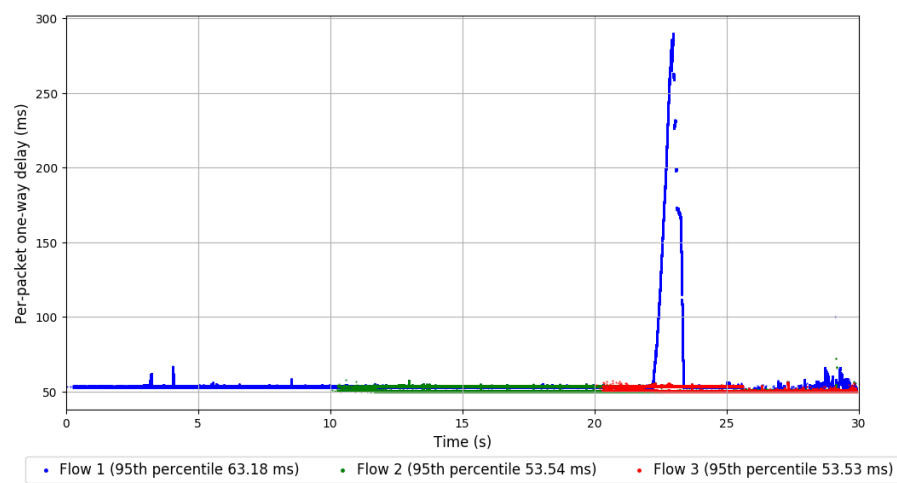
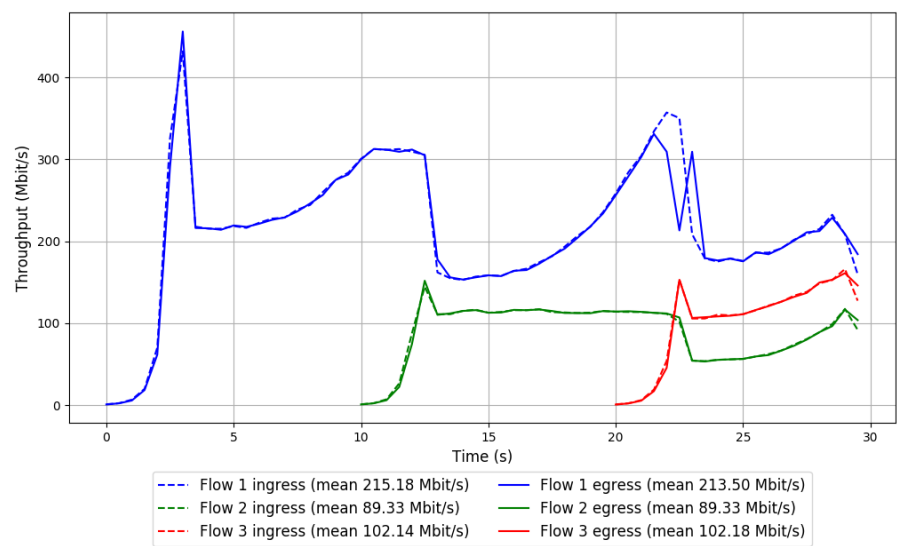
-- Flow 3:

Average throughput: 102.18 Mbit/s

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-17 19:17:20

End at: 2018-01-17 19:17:50

Below is generated by plot.py at 2018-01-18 01:09:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.18 Mbit/s

95th percentile per-packet one-way delay: 86.151 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 210.97 Mbit/s

95th percentile per-packet one-way delay: 102.663 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 63.159 ms

Loss rate: 0.00%

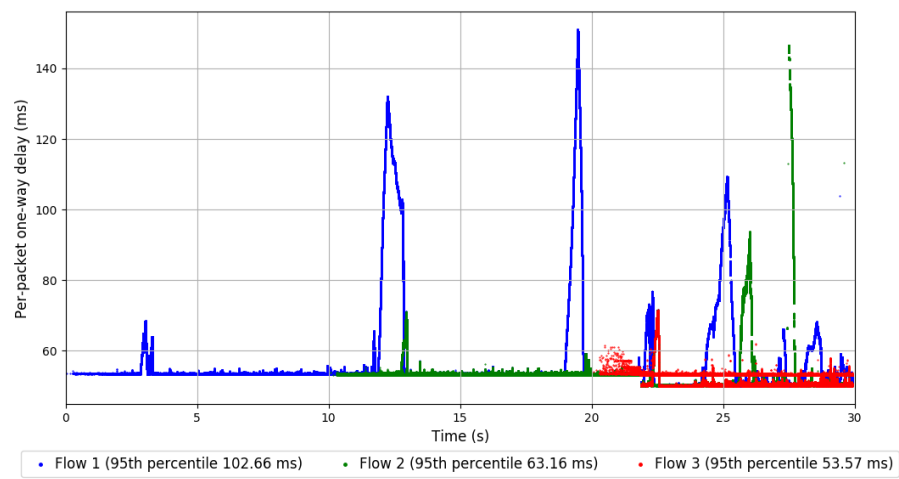
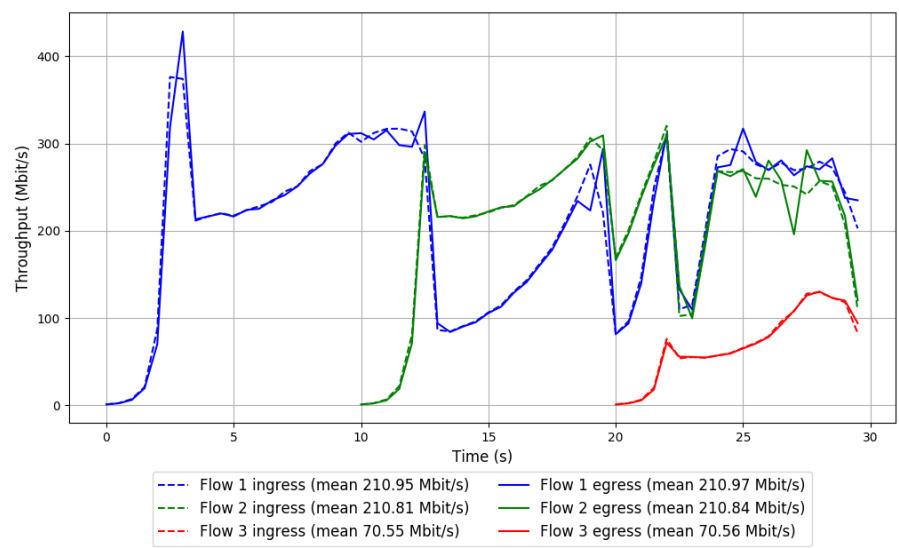
-- Flow 3:

Average throughput: 70.56 Mbit/s

95th percentile per-packet one-way delay: 53.568 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-17 19:34:29

End at: 2018-01-17 19:34:59

Below is generated by plot.py at 2018-01-18 01:09:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.38 Mbit/s

95th percentile per-packet one-way delay: 54.110 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 97.77 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 190.46 Mbit/s

95th percentile per-packet one-way delay: 67.190 ms

Loss rate: 0.06%

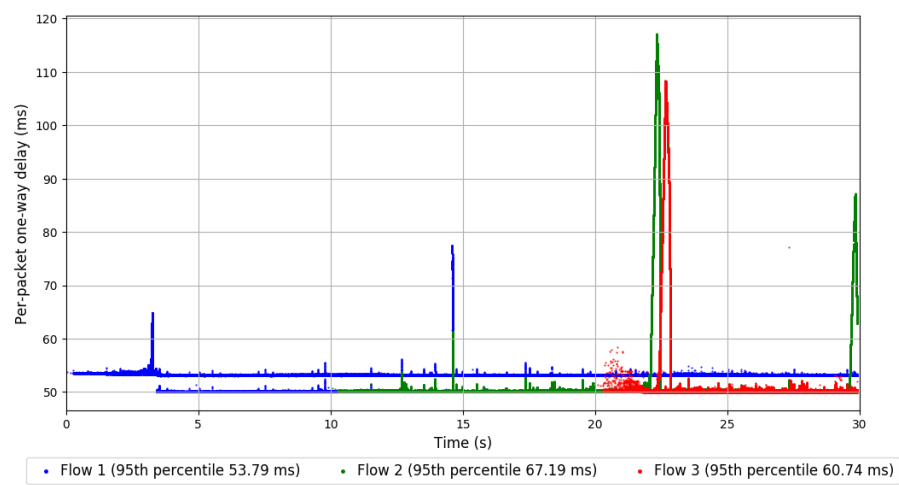
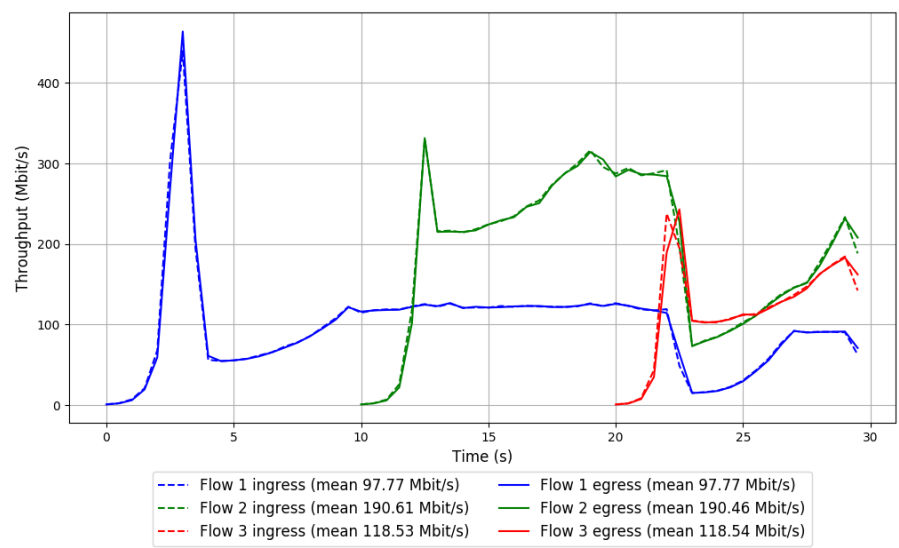
-- Flow 3:

Average throughput: 118.54 Mbit/s

95th percentile per-packet one-way delay: 60.744 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link

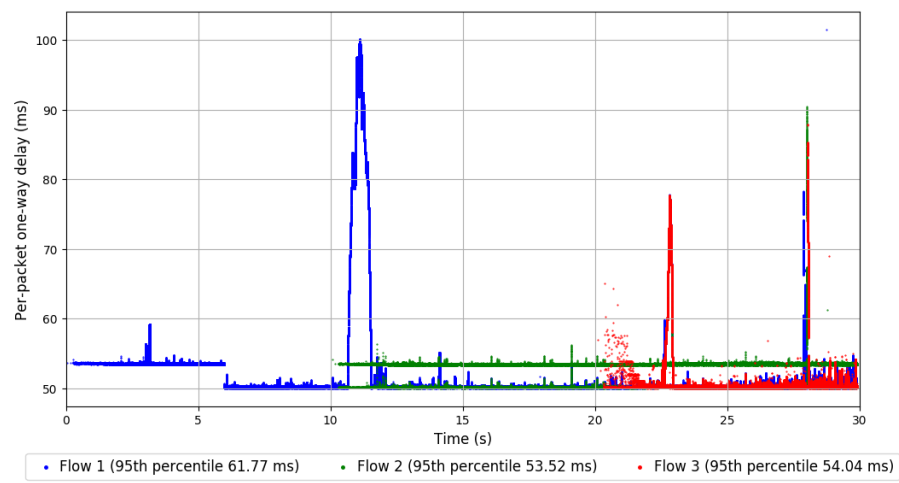
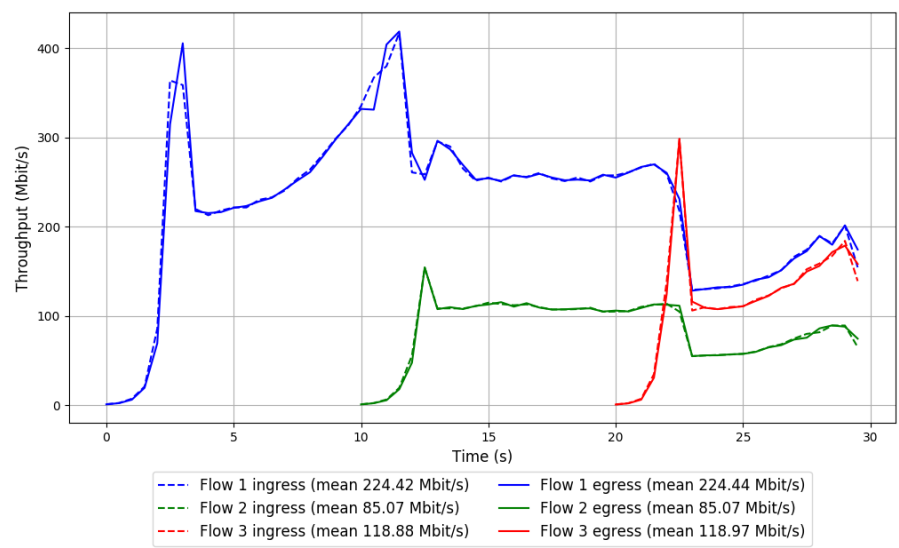


```
Run 6: Statistics of Vivace-loss

Start at: 2018-01-17 19:51:16
End at: 2018-01-17 19:51:46

# Below is generated by plot.py at 2018-01-18 01:10:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.02 Mbit/s
95th percentile per-packet one-way delay: 55.003 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.44 Mbit/s
95th percentile per-packet one-way delay: 61.768 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 53.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 118.97 Mbit/s
95th percentile per-packet one-way delay: 54.038 ms
Loss rate: 0.00%
```

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-17 20:07:58

End at: 2018-01-17 20:08:28

Below is generated by plot.py at 2018-01-18 01:12:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 226.16 Mbit/s

95th percentile per-packet one-way delay: 51.843 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 53.598 ms

Loss rate: 0.00%

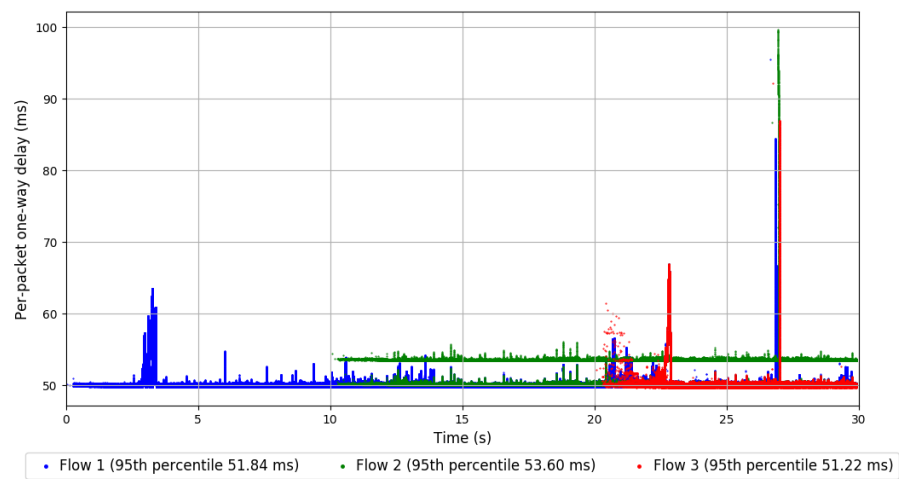
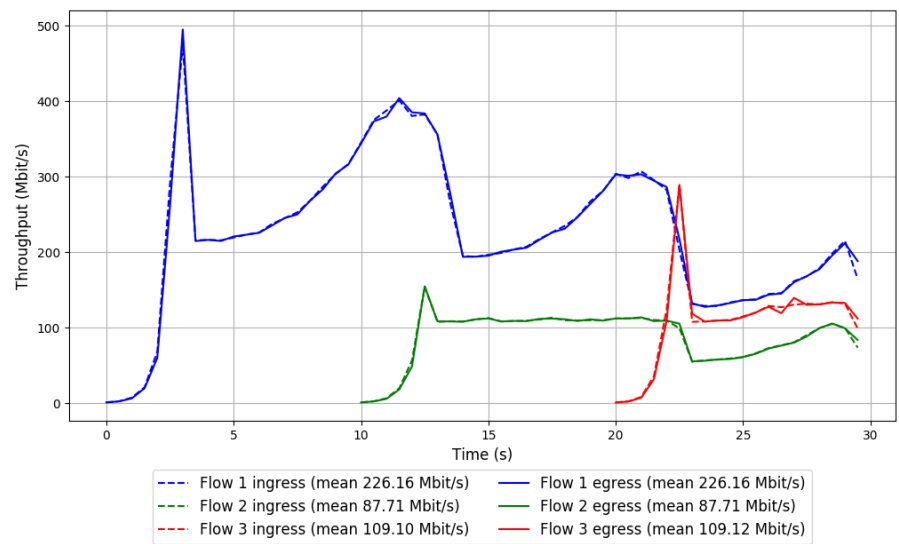
-- Flow 3:

Average throughput: 109.12 Mbit/s

95th percentile per-packet one-way delay: 51.218 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-17 20:25:00

End at: 2018-01-17 20:25:30

Below is generated by plot.py at 2018-01-18 01:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.07 Mbit/s

95th percentile per-packet one-way delay: 80.657 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 218.22 Mbit/s

95th percentile per-packet one-way delay: 72.802 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 186.26 Mbit/s

95th percentile per-packet one-way delay: 128.490 ms

Loss rate: 0.00%

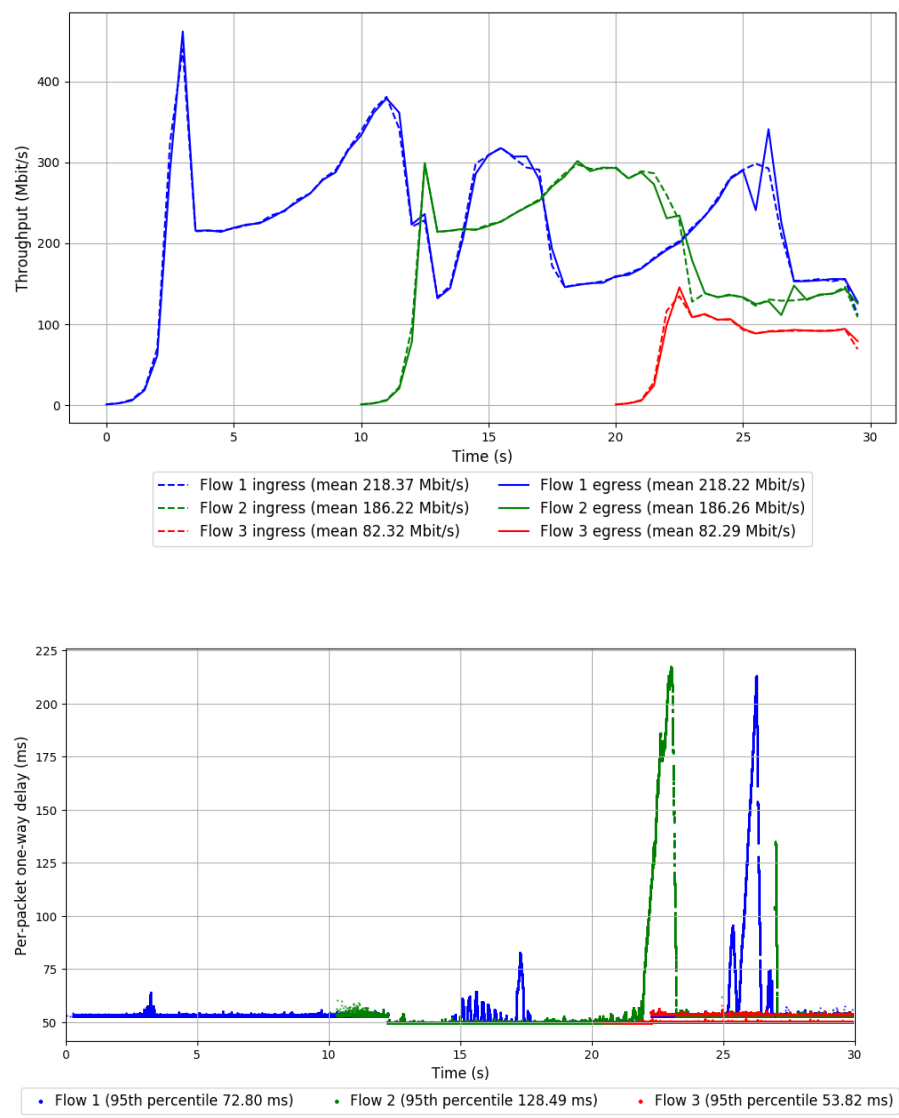
-- Flow 3:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-17 20:42:07

End at: 2018-01-17 20:42:37

Below is generated by plot.py at 2018-01-18 01:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 194.65 Mbit/s

95th percentile per-packet one-way delay: 53.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 93.52 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.83 Mbit/s

95th percentile per-packet one-way delay: 53.674 ms

Loss rate: 0.00%

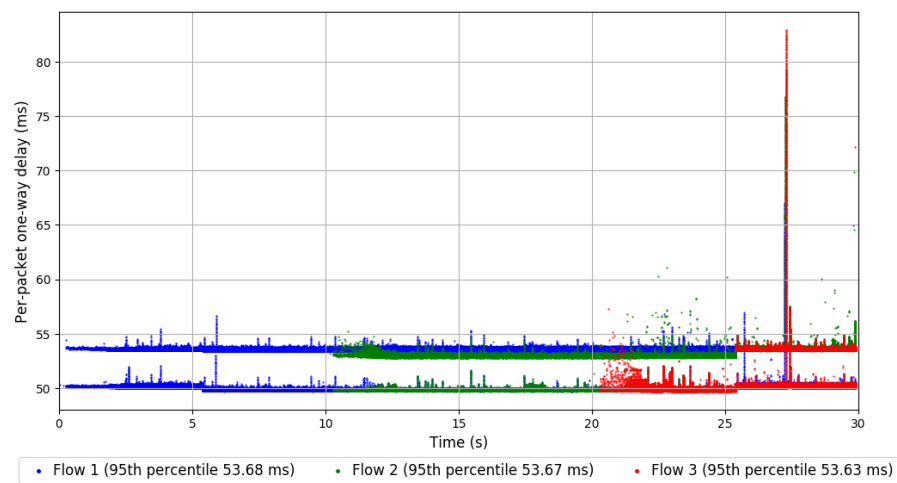
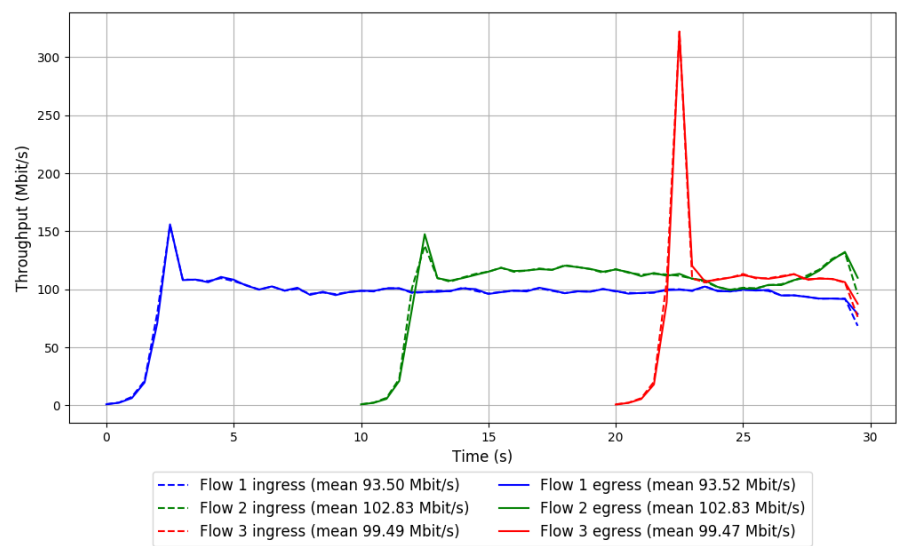
-- Flow 3:

Average throughput: 99.47 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-17 20:58:17

End at: 2018-01-17 20:58:47

Below is generated by plot.py at 2018-01-18 01:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.80 Mbit/s

95th percentile per-packet one-way delay: 53.192 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.97 Mbit/s

95th percentile per-packet one-way delay: 53.093 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.20 Mbit/s

95th percentile per-packet one-way delay: 53.180 ms

Loss rate: 0.00%

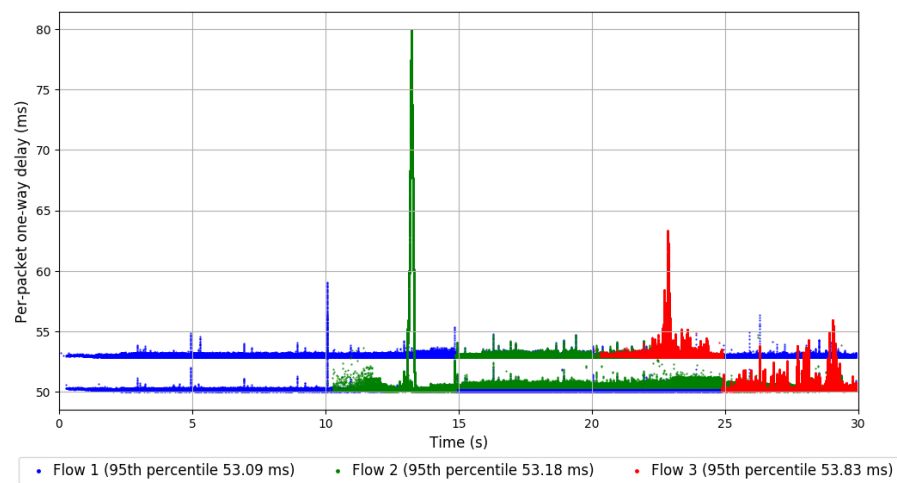
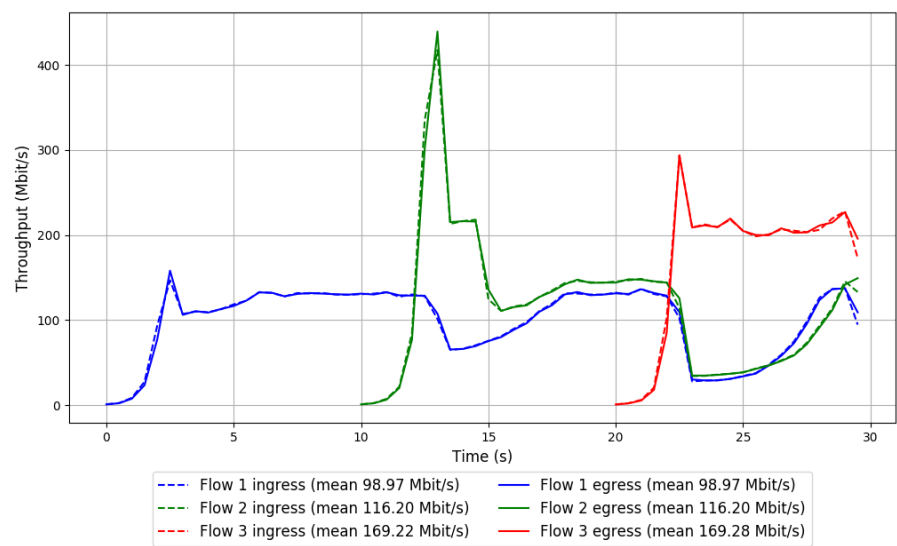
-- Flow 3:

Average throughput: 169.28 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

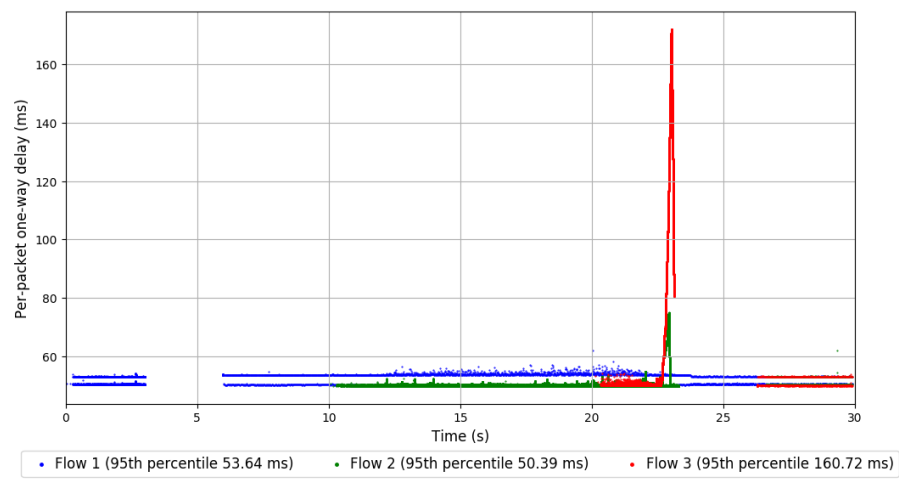
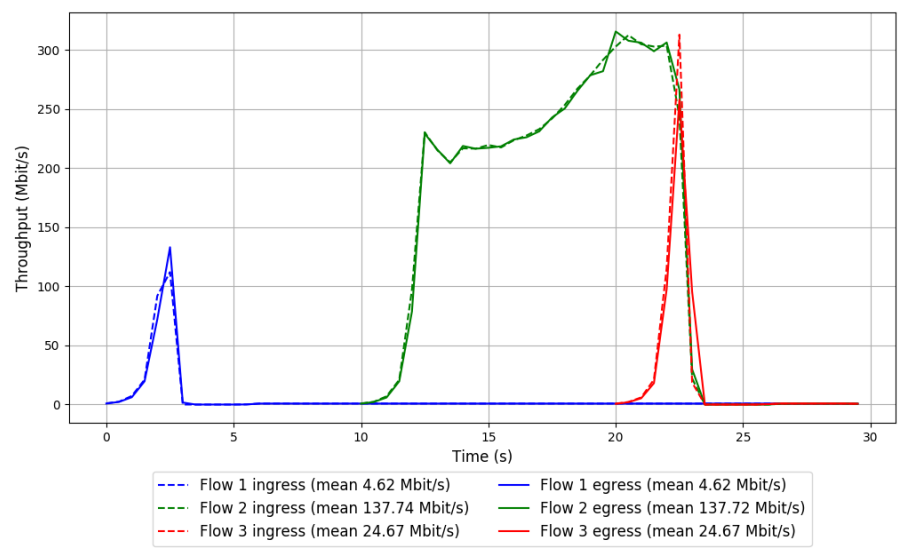


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-17 18:29:58
End at: 2018-01-17 18:30:28

# Below is generated by plot.py at 2018-01-18 01:14:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.16 Mbit/s
95th percentile per-packet one-way delay: 54.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 53.642 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 137.72 Mbit/s
95th percentile per-packet one-way delay: 50.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 160.725 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-17 18:46:55

End at: 2018-01-17 18:47:25

Below is generated by plot.py at 2018-01-18 01:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 56.539 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 61.255 ms

Loss rate: 0.00%

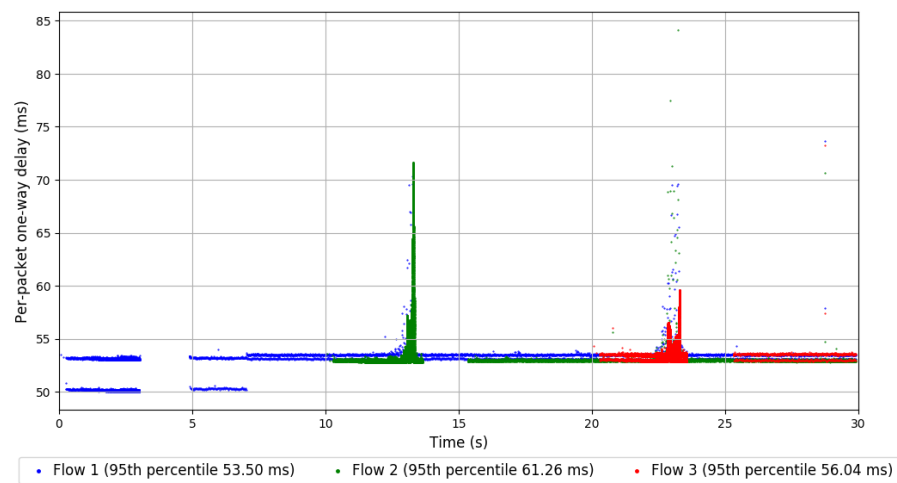
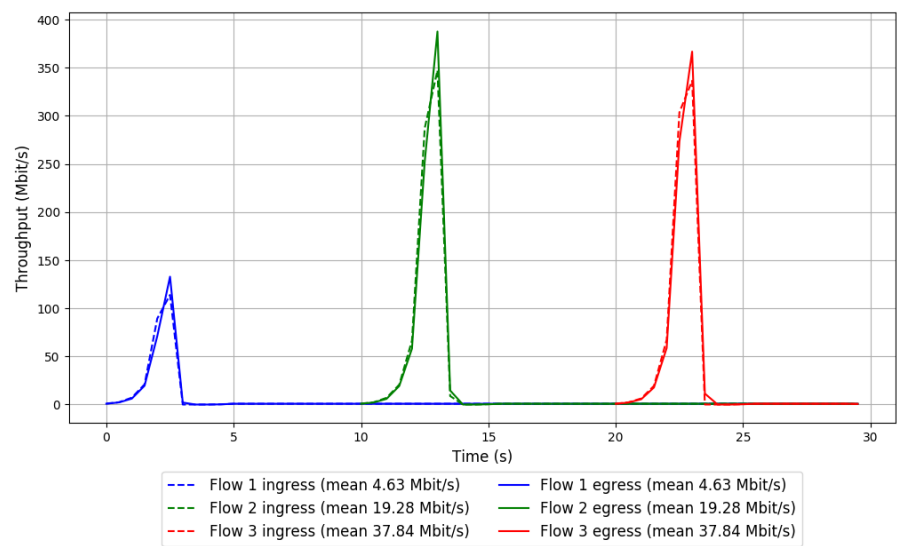
-- Flow 3:

Average throughput: 37.84 Mbit/s

95th percentile per-packet one-way delay: 56.038 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-17 19:03:26

End at: 2018-01-17 19:03:56

Below is generated by plot.py at 2018-01-18 01:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 110.465 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 53.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.93 Mbit/s

95th percentile per-packet one-way delay: 55.362 ms

Loss rate: 0.00%

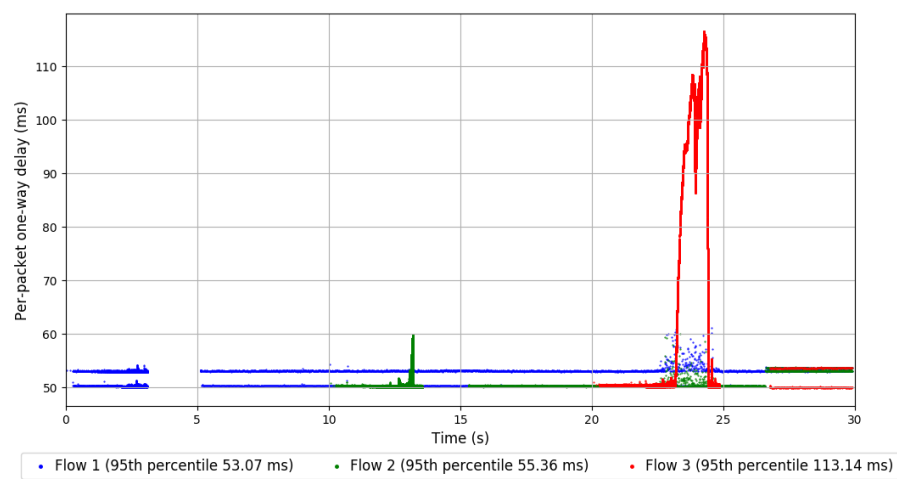
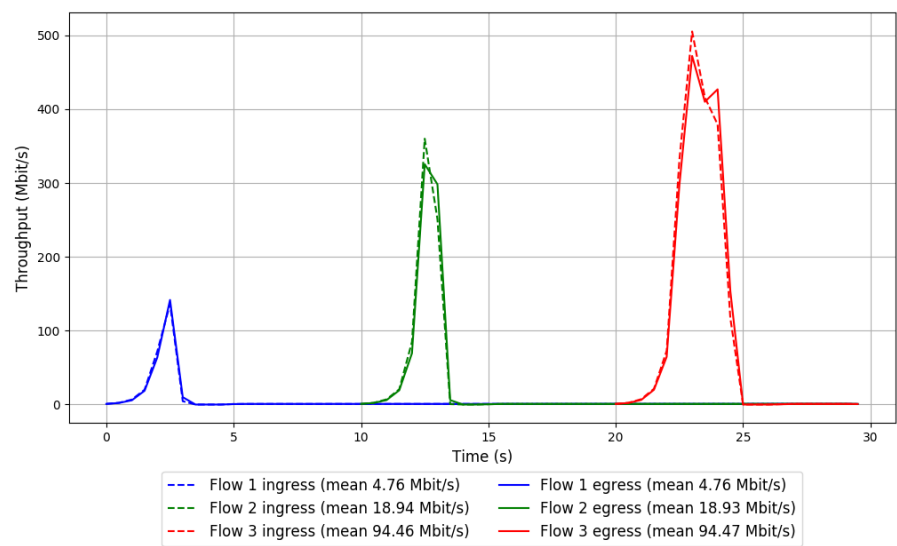
-- Flow 3:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 113.138 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-17 19:20:13

End at: 2018-01-17 19:20:43

Below is generated by plot.py at 2018-01-18 01:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.37 Mbit/s

95th percentile per-packet one-way delay: 58.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 54.420 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.29 Mbit/s

95th percentile per-packet one-way delay: 112.256 ms

Loss rate: 0.00%

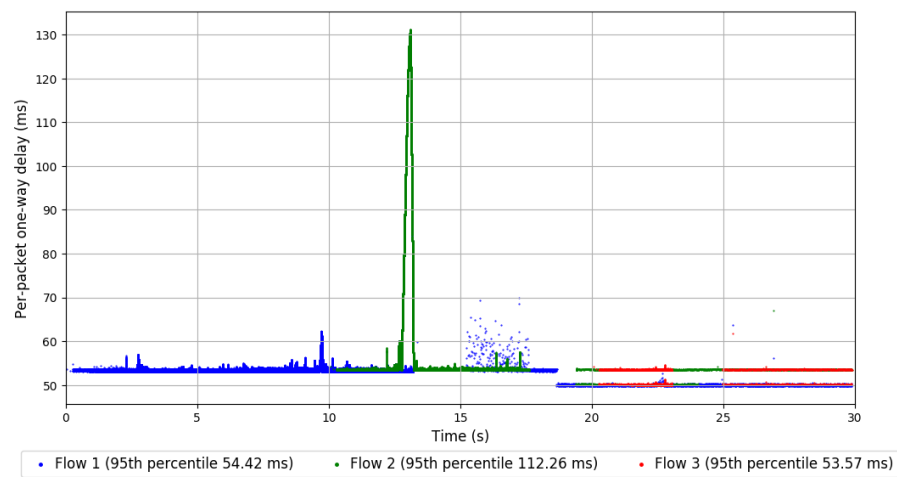
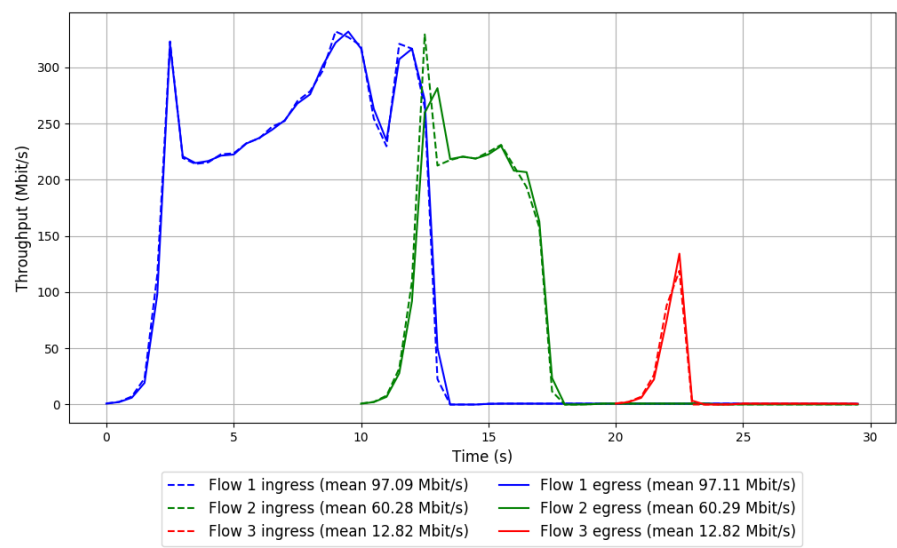
-- Flow 3:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-17 19:36:55

End at: 2018-01-17 19:37:25

Below is generated by plot.py at 2018-01-18 01:14:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.68 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 58.563 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 237.44 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.00%

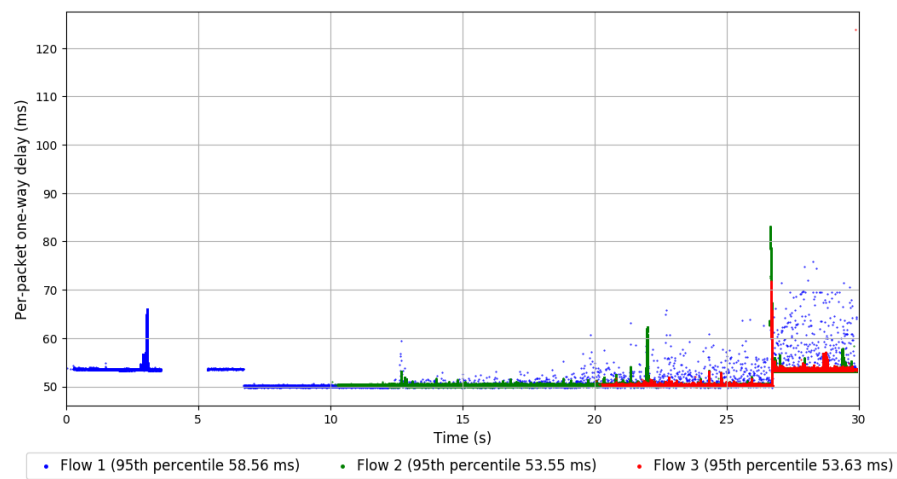
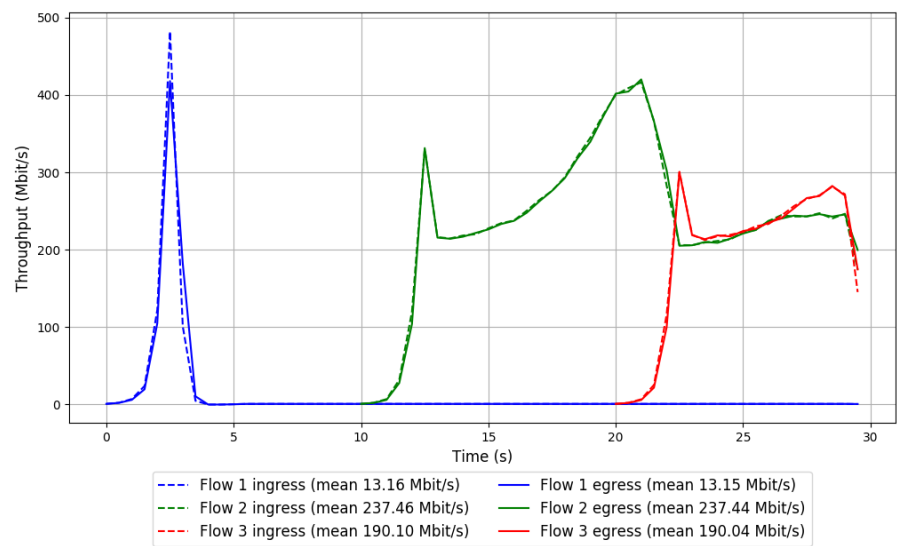
-- Flow 3:

Average throughput: 190.04 Mbit/s

95th percentile per-packet one-way delay: 53.631 ms

Loss rate: 0.02%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-17 19:53:58

End at: 2018-01-17 19:54:28

Below is generated by plot.py at 2018-01-18 01:14:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 54.622 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 0.00%

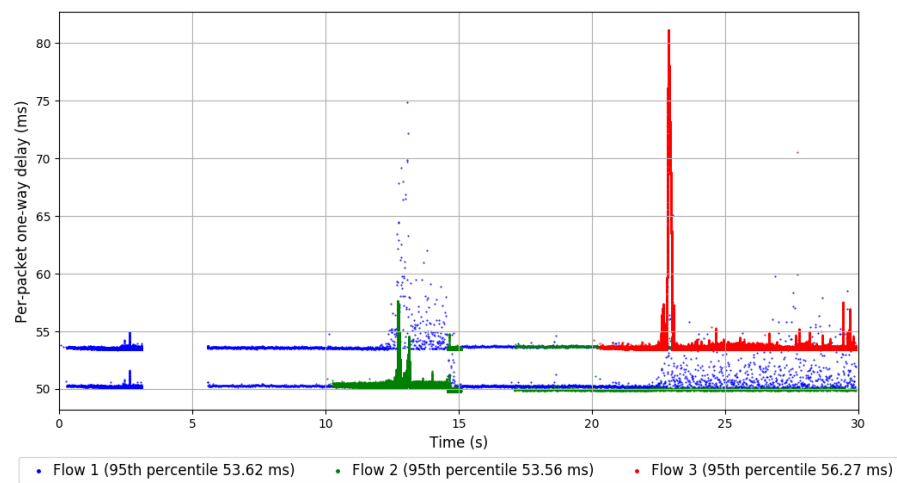
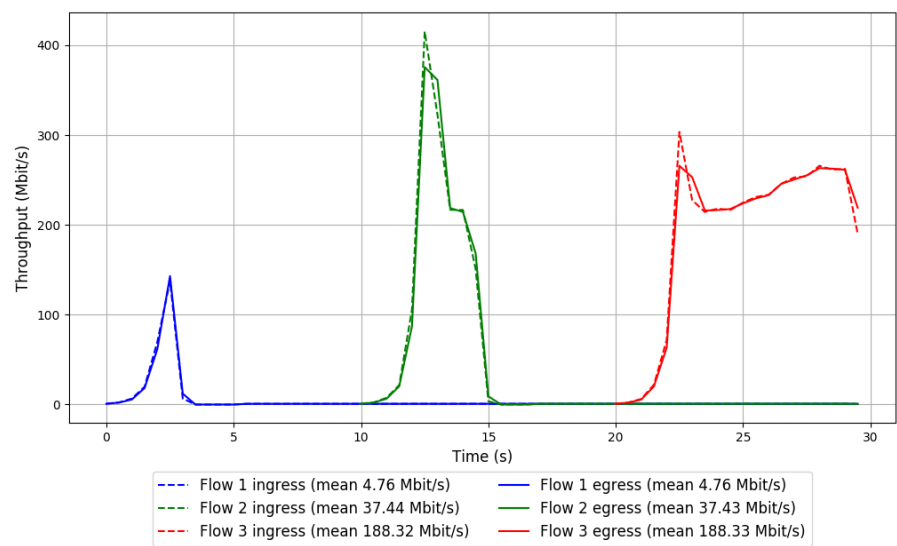
-- Flow 3:

Average throughput: 188.33 Mbit/s

95th percentile per-packet one-way delay: 56.270 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-17 20:10:38

End at: 2018-01-17 20:11:08

Below is generated by plot.py at 2018-01-18 01:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 54.059 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.53 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 53.037 ms

Loss rate: 0.00%

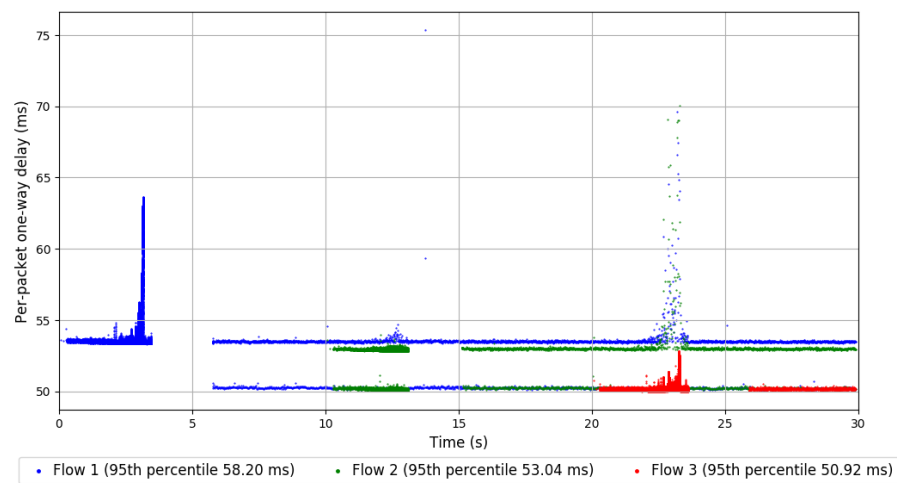
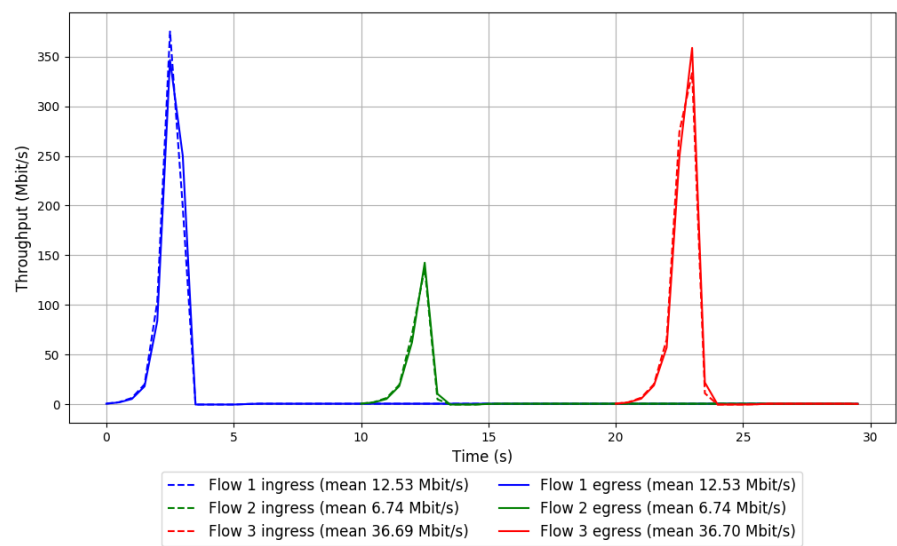
-- Flow 3:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-17 20:27:51

End at: 2018-01-17 20:28:21

Below is generated by plot.py at 2018-01-18 01:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 64.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.79 Mbit/s

95th percentile per-packet one-way delay: 53.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.00%

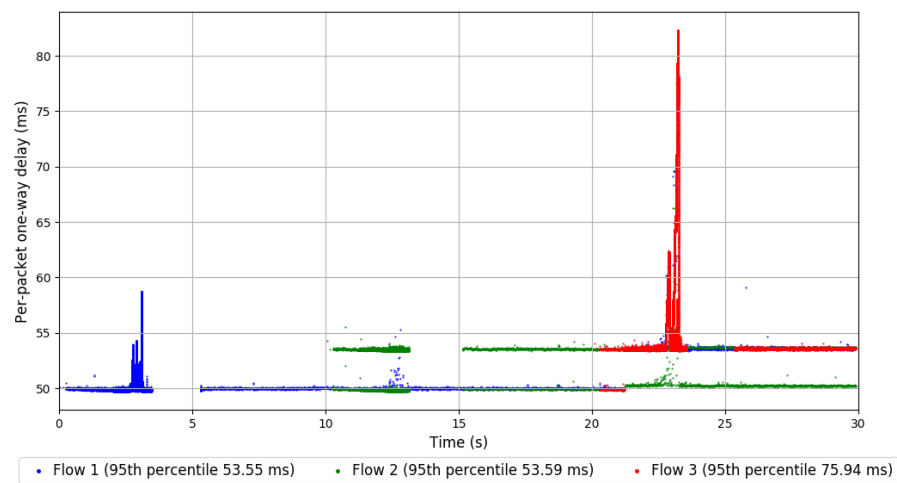
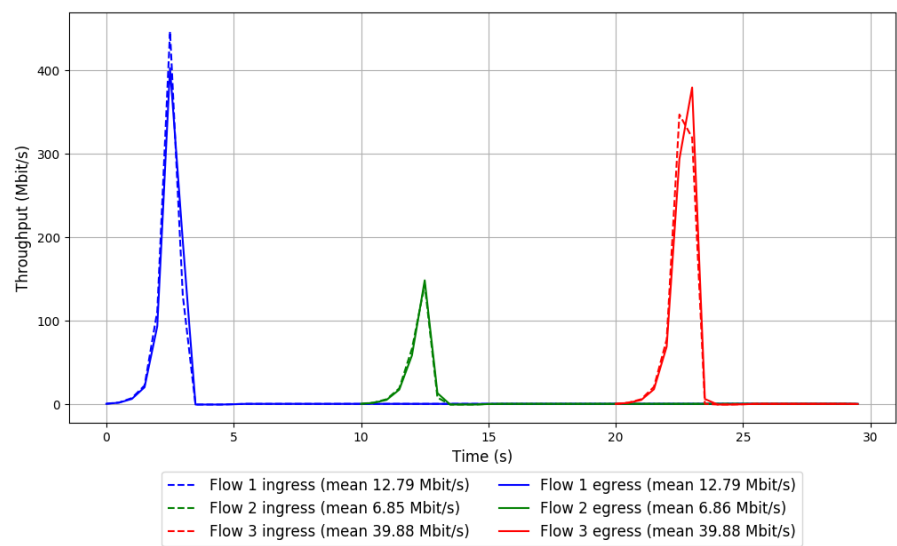
-- Flow 3:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 75.940 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-17 20:44:28

End at: 2018-01-17 20:44:58

Below is generated by plot.py at 2018-01-18 01:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 53.674 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 53.325 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 52.964 ms

Loss rate: 0.00%

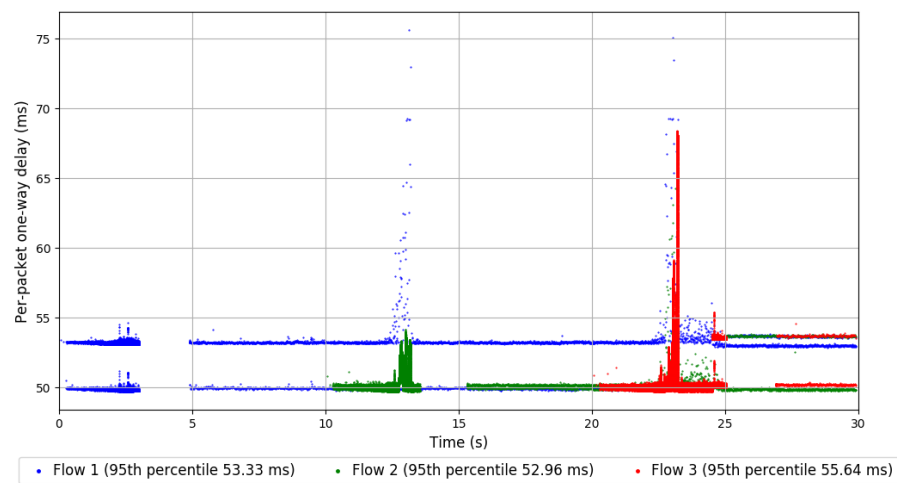
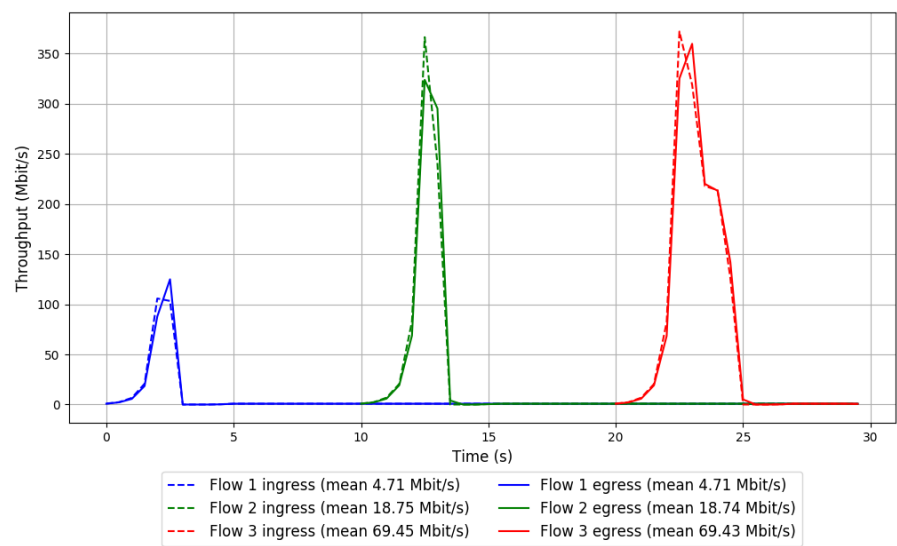
-- Flow 3:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 55.636 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-17 21:00:58
End at: 2018-01-17 21:01:28

# Below is generated by plot.py at 2018-01-18 01:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.16 Mbit/s
95th percentile per-packet one-way delay: 93.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 53.174 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 230.20 Mbit/s
95th percentile per-packet one-way delay: 96.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 53.048 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

