

Pantheon Report

Generated at 2018-01-26 23:31:51 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

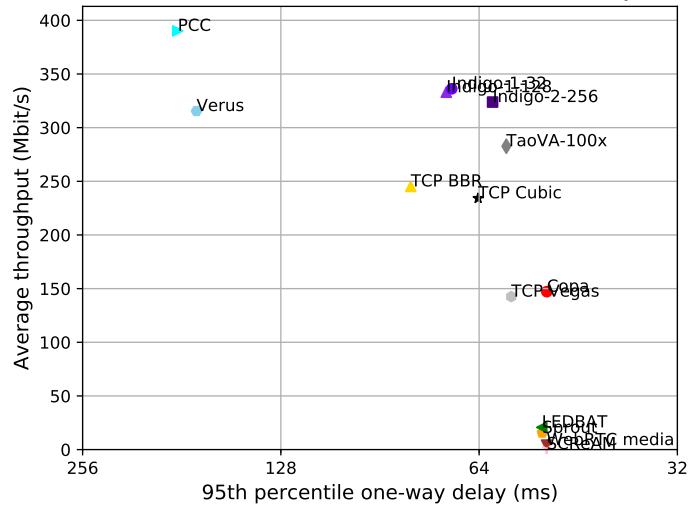
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

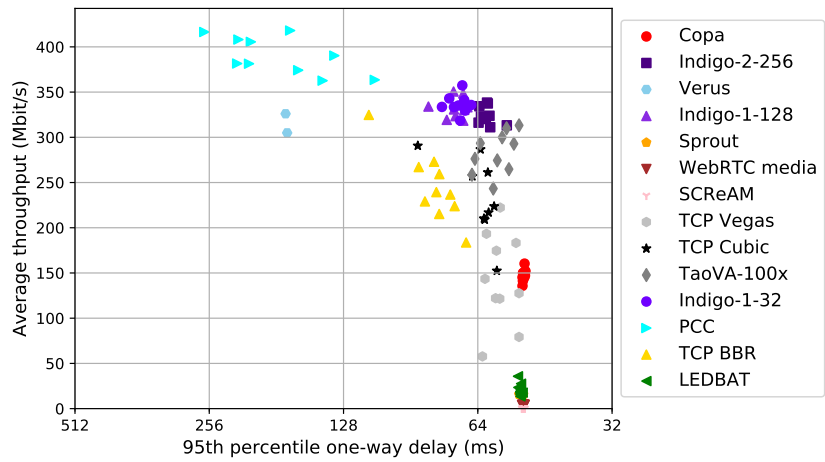
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



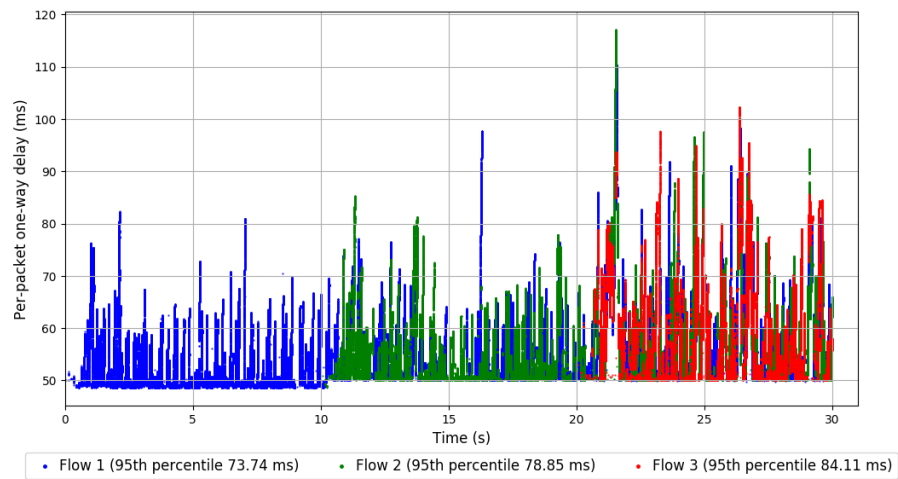
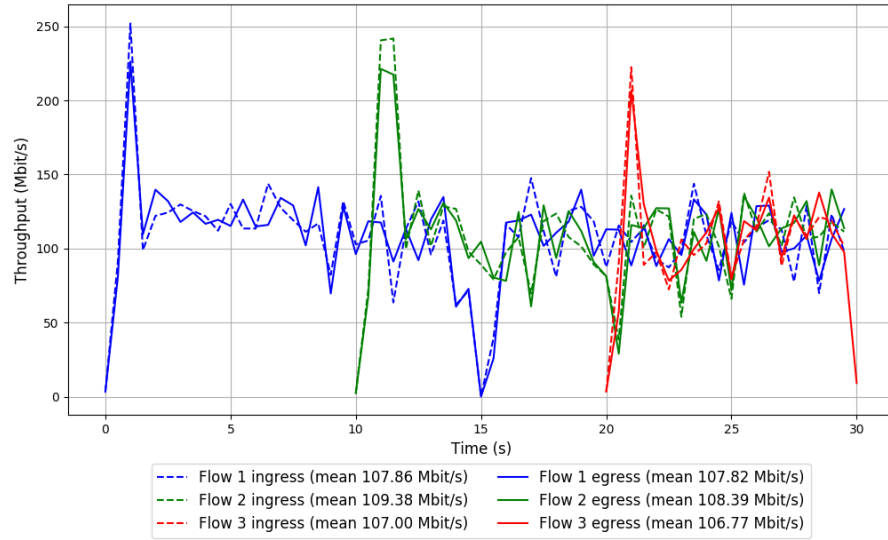
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	108.44	128.47	148.40	87.44	80.25	87.96	0.12	0.12	0.22
TCP Cubic	9	108.50	132.88	112.35	62.09	64.09	65.55	0.12	0.06	0.03
LEDBAT	10	10.31	11.53	7.99	51.46	51.41	51.20	0.36	0.60	0.85
PCC	10	349.93	44.71	31.97	185.39	172.41	148.03	0.88	0.45	0.45
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.22	0.22	0.22	50.38	50.21	50.10	0.00	0.00	0.00
WebRTC media	10	2.23	1.40	0.57	50.41	50.45	50.37	0.00	0.00	0.00
Sprout	10	7.87	7.83	7.56	51.35	51.30	51.33	0.32	0.19	0.23
TaoVA-100x	10	163.14	133.22	124.42	57.73	58.70	58.10	0.01	0.03	0.04
TCP Vegas	10	42.67	94.11	113.03	466.68	54.54	59.23	0.15	0.07	0.32
Verus	2	185.62	149.30	95.20	185.95	162.67	192.28	2.74	0.14	1.36
Copa	10	78.50	74.07	74.38	50.43	50.36	50.38	0.00	0.01	0.00
Indigo-2-256	10	180.69	171.08	92.70	59.49	61.74	64.91	0.01	0.01	0.03
Indigo-1-32	10	187.94	164.04	122.73	68.36	70.83	75.47	0.05	0.09	0.10
Indigo-1-128	10	187.80	173.25	94.82	68.69	72.57	77.52	0.04	0.05	0.08

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-26 18:38:11
End at: 2018-01-26 18:38:41

# Below is generated by plot.py at 2018-01-26 22:29:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.24 Mbit/s
95th percentile per-packet one-way delay: 78.099 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 107.82 Mbit/s
95th percentile per-packet one-way delay: 73.736 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 108.39 Mbit/s
95th percentile per-packet one-way delay: 78.846 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 106.77 Mbit/s
95th percentile per-packet one-way delay: 84.105 ms
Loss rate: 0.23%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 18:51:59

End at: 2018-01-26 18:52:29

Below is generated by plot.py at 2018-01-26 22:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.13 Mbit/s

95th percentile per-packet one-way delay: 84.087 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 102.48 Mbit/s

95th percentile per-packet one-way delay: 77.383 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 105.38 Mbit/s

95th percentile per-packet one-way delay: 80.719 ms

Loss rate: 0.01%

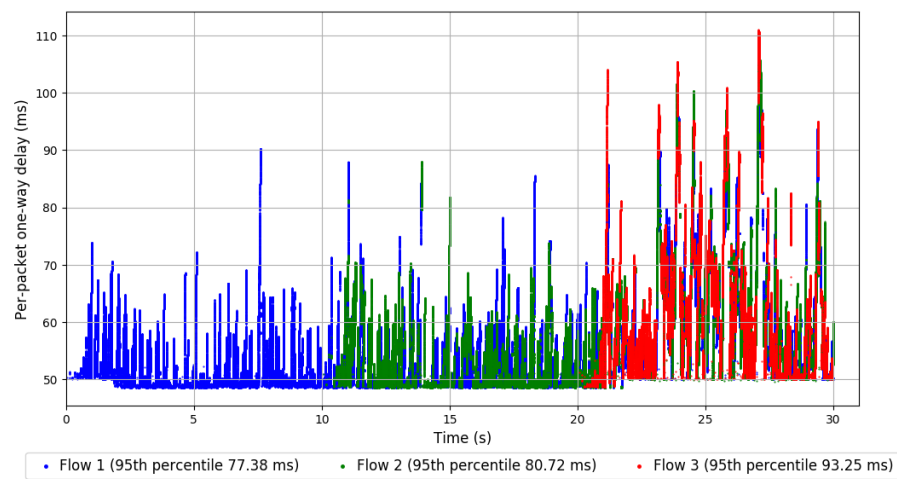
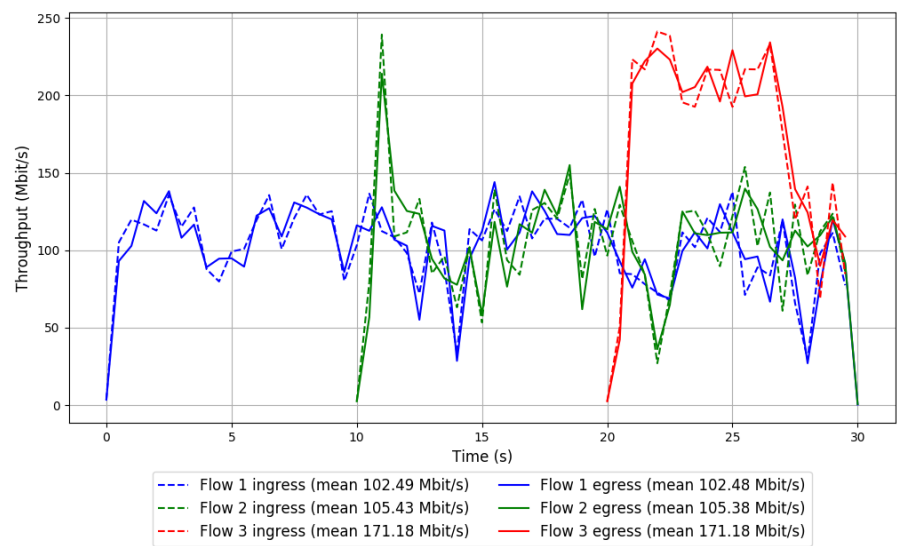
-- Flow 3:

Average throughput: 171.18 Mbit/s

95th percentile per-packet one-way delay: 93.254 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 19:05:41

End at: 2018-01-26 19:06:11

Below is generated by plot.py at 2018-01-26 22:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.73 Mbit/s

95th percentile per-packet one-way delay: 67.975 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 169.277 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.88 Mbit/s

95th percentile per-packet one-way delay: 63.937 ms

Loss rate: 0.14%

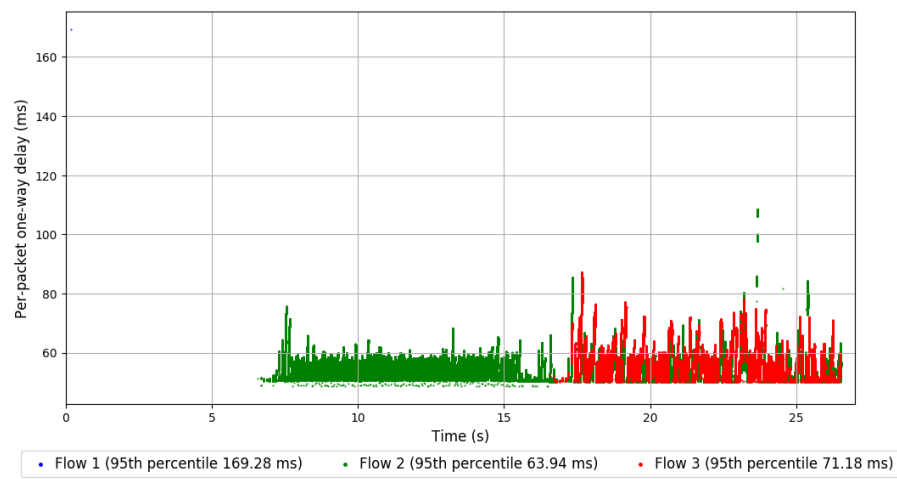
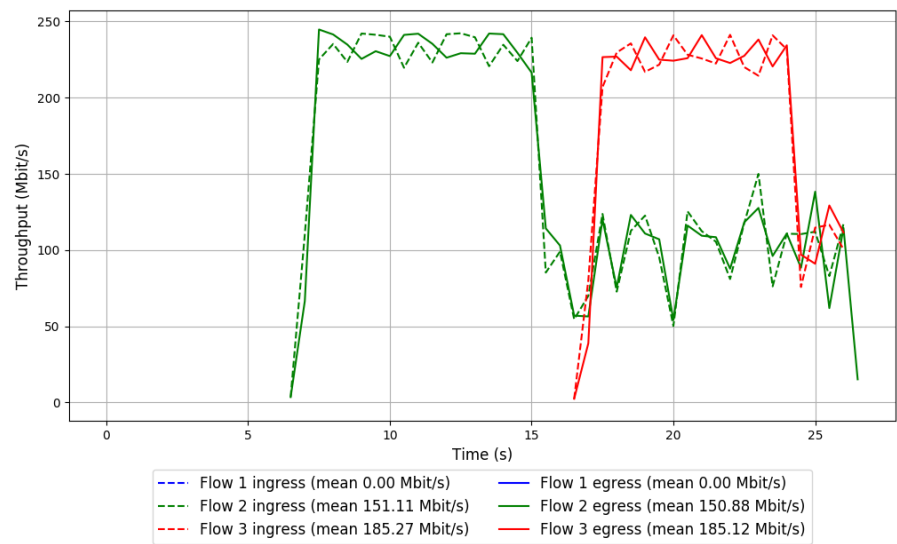
-- Flow 3:

Average throughput: 185.12 Mbit/s

95th percentile per-packet one-way delay: 71.180 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 19:19:27

End at: 2018-01-26 19:19:57

Below is generated by plot.py at 2018-01-26 22:30:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.09 Mbit/s

95th percentile per-packet one-way delay: 86.817 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 134.13 Mbit/s

95th percentile per-packet one-way delay: 82.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 85.446 ms

Loss rate: 0.01%

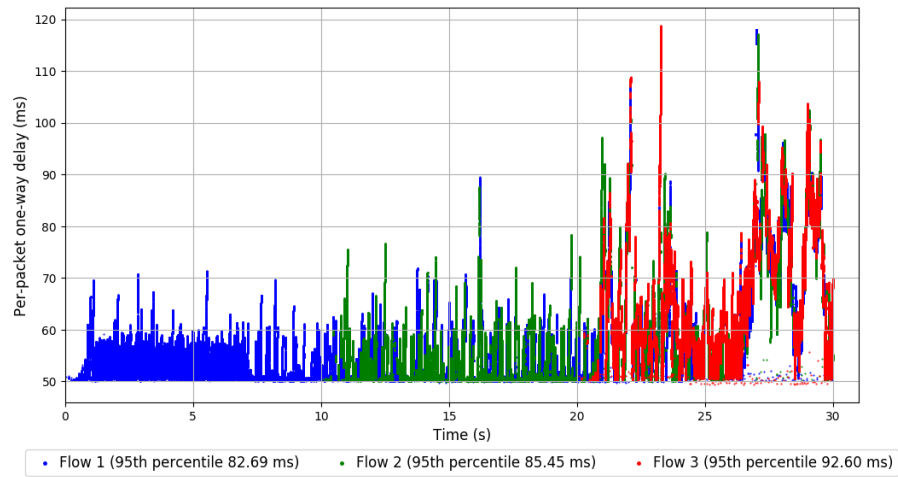
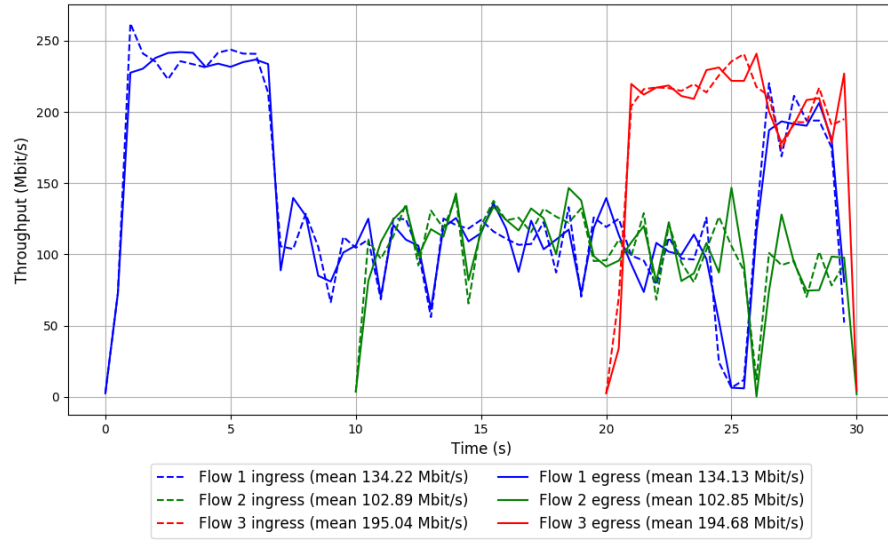
-- Flow 3:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 92.604 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 19:33:17

End at: 2018-01-26 19:33:47

Below is generated by plot.py at 2018-01-26 22:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.01 Mbit/s

95th percentile per-packet one-way delay: 80.226 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 123.10 Mbit/s

95th percentile per-packet one-way delay: 78.024 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 149.25 Mbit/s

95th percentile per-packet one-way delay: 78.283 ms

Loss rate: 0.00%

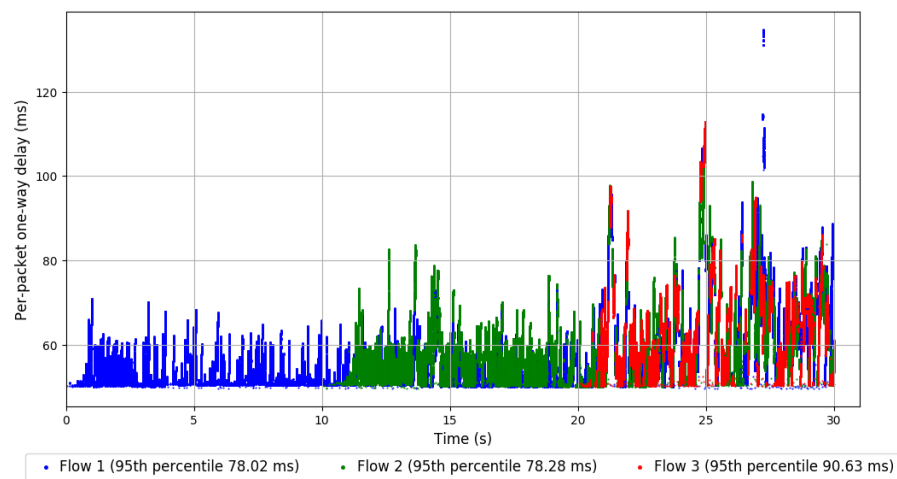
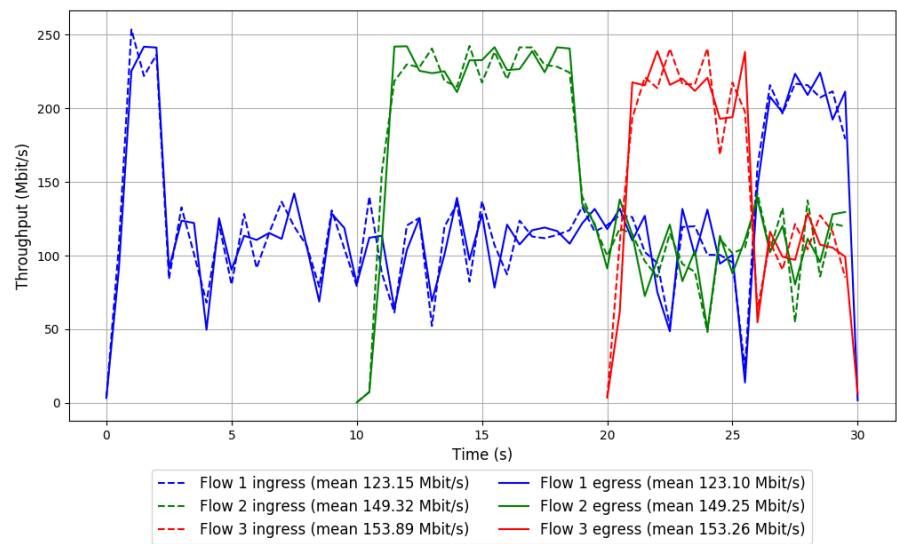
-- Flow 3:

Average throughput: 153.26 Mbit/s

95th percentile per-packet one-way delay: 90.627 ms

Loss rate: 0.34%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 19:47:17

End at: 2018-01-26 19:47:47

Below is generated by plot.py at 2018-01-26 22:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.73 Mbit/s

95th percentile per-packet one-way delay: 73.761 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 117.17 Mbit/s

95th percentile per-packet one-way delay: 71.629 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 118.10 Mbit/s

95th percentile per-packet one-way delay: 72.945 ms

Loss rate: 0.00%

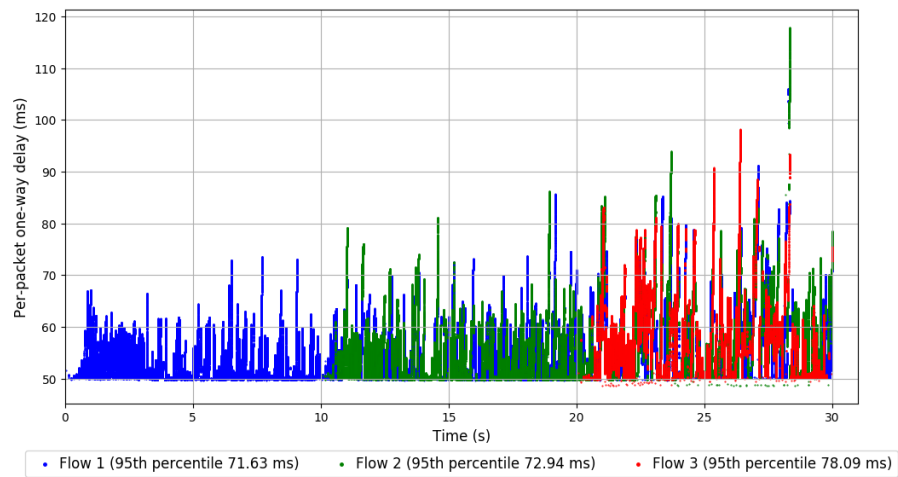
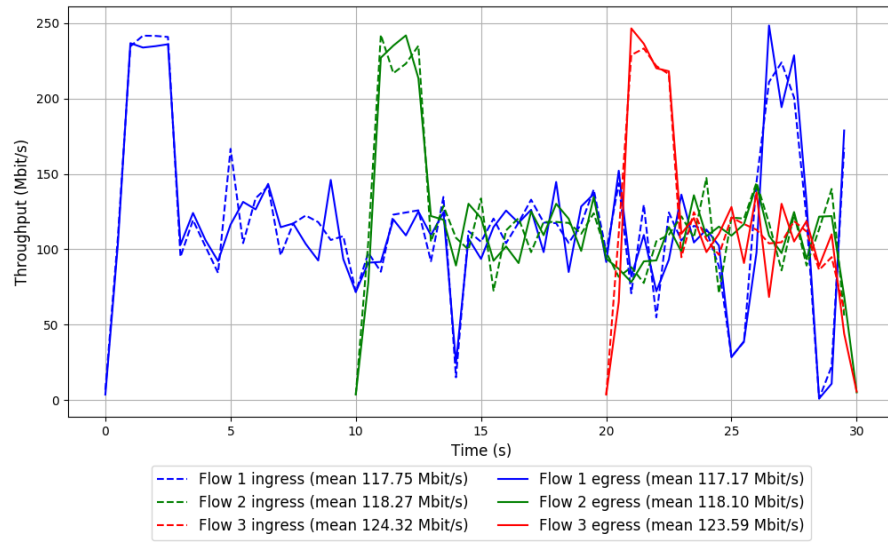
-- Flow 3:

Average throughput: 123.59 Mbit/s

95th percentile per-packet one-way delay: 78.094 ms

Loss rate: 0.42%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-26 20:01:12

End at: 2018-01-26 20:01:42

Below is generated by plot.py at 2018-01-26 22:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.29 Mbit/s

95th percentile per-packet one-way delay: 78.052 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 134.63 Mbit/s

95th percentile per-packet one-way delay: 75.128 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 138.77 Mbit/s

95th percentile per-packet one-way delay: 79.403 ms

Loss rate: 0.01%

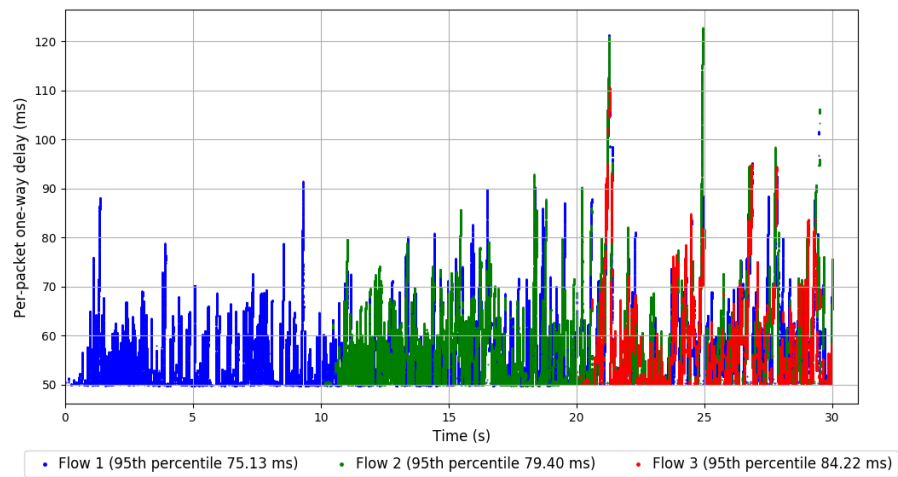
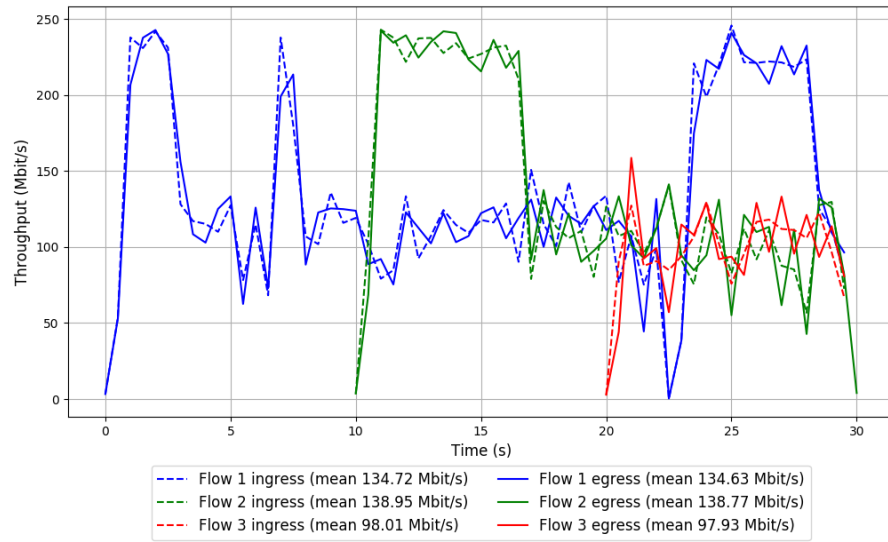
-- Flow 3:

Average throughput: 97.93 Mbit/s

95th percentile per-packet one-way delay: 84.216 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 20:15:07

End at: 2018-01-26 20:15:37

Below is generated by plot.py at 2018-01-26 22:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.89 Mbit/s

95th percentile per-packet one-way delay: 72.133 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 111.37 Mbit/s

95th percentile per-packet one-way delay: 68.370 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 108.21 Mbit/s

95th percentile per-packet one-way delay: 72.446 ms

Loss rate: 0.01%

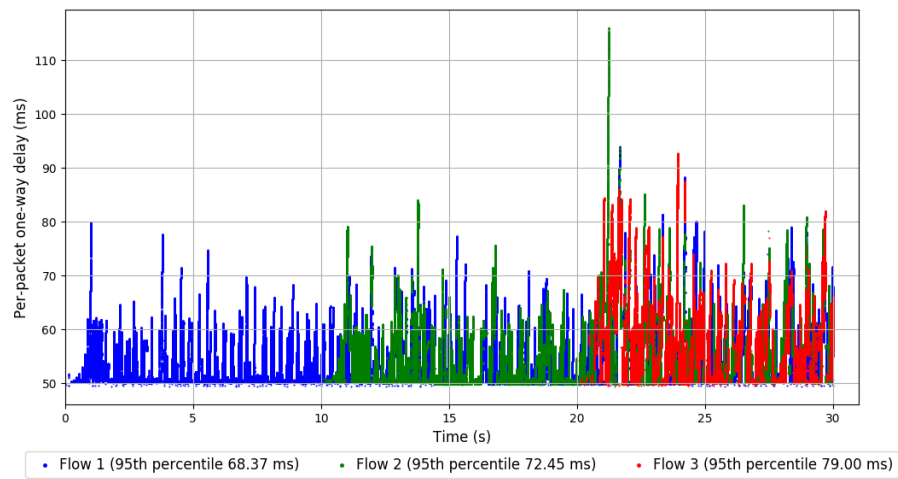
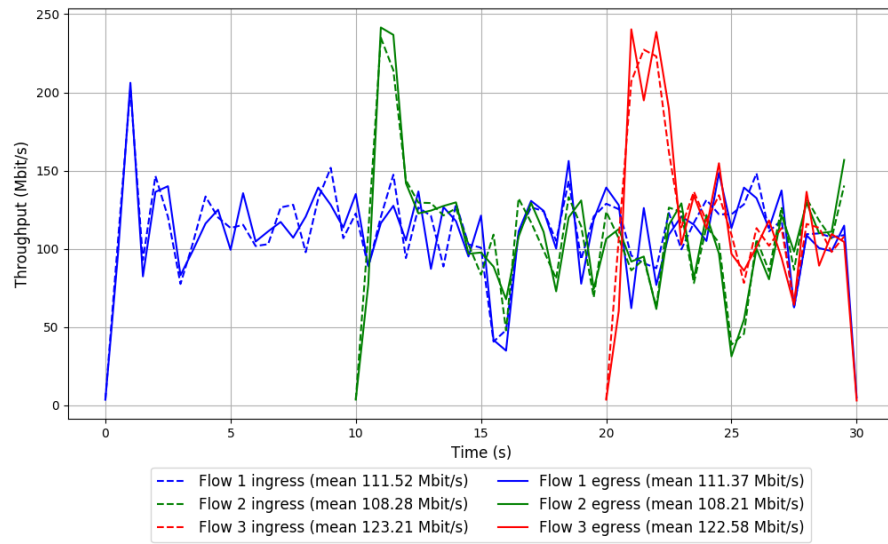
-- Flow 3:

Average throughput: 122.58 Mbit/s

95th percentile per-packet one-way delay: 79.001 ms

Loss rate: 0.55%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 20:28:45

End at: 2018-01-26 20:29:15

Below is generated by plot.py at 2018-01-26 22:33:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.39 Mbit/s

95th percentile per-packet one-way delay: 79.265 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 106.07 Mbit/s

95th percentile per-packet one-way delay: 74.783 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 112.14 Mbit/s

95th percentile per-packet one-way delay: 77.348 ms

Loss rate: 0.01%

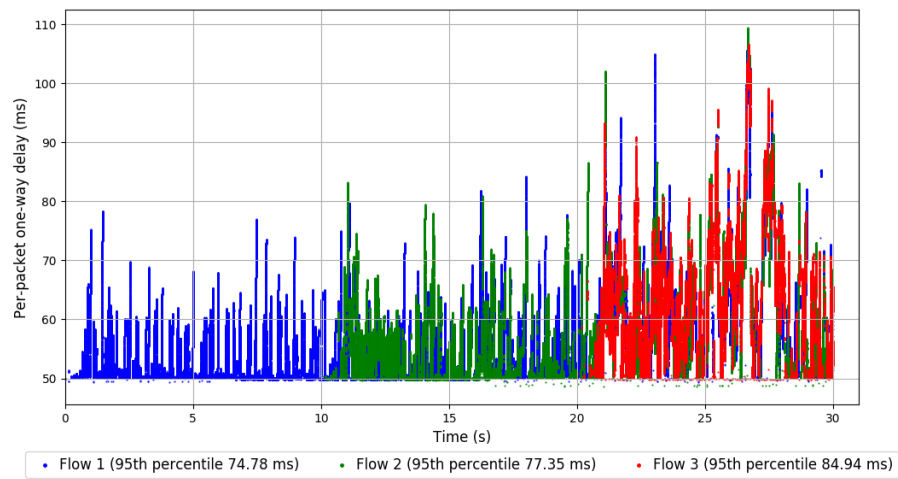
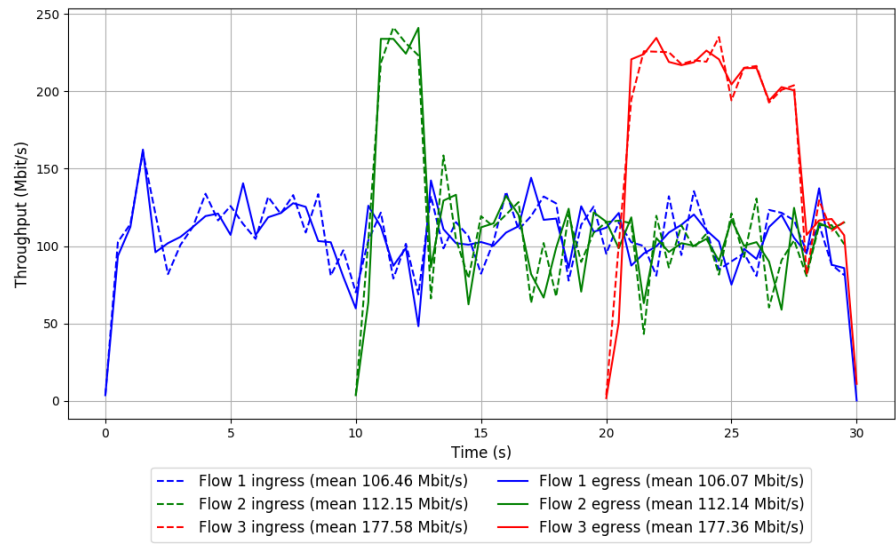
-- Flow 3:

Average throughput: 177.36 Mbit/s

95th percentile per-packet one-way delay: 84.944 ms

Loss rate: 0.09%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 20:42:31

End at: 2018-01-26 20:43:01

Below is generated by plot.py at 2018-01-26 22:35:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.77 Mbit/s

95th percentile per-packet one-way delay: 112.347 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 147.59 Mbit/s

95th percentile per-packet one-way delay: 103.343 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 190.68 Mbit/s

95th percentile per-packet one-way delay: 113.137 ms

Loss rate: 0.15%

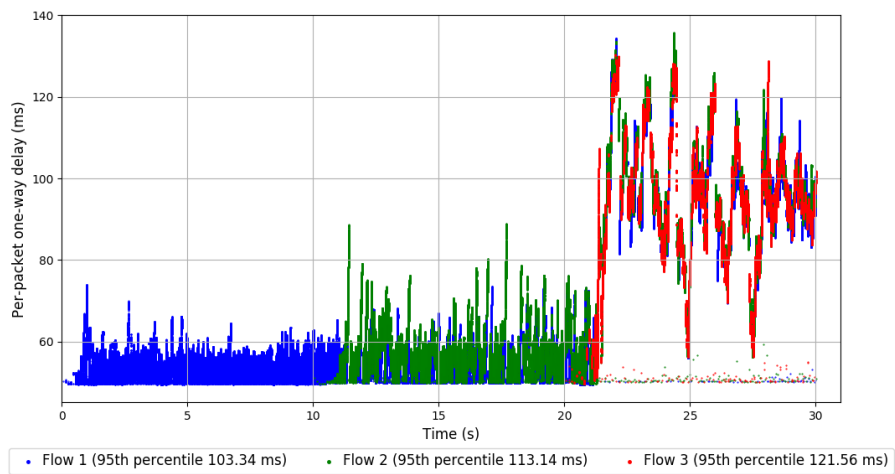
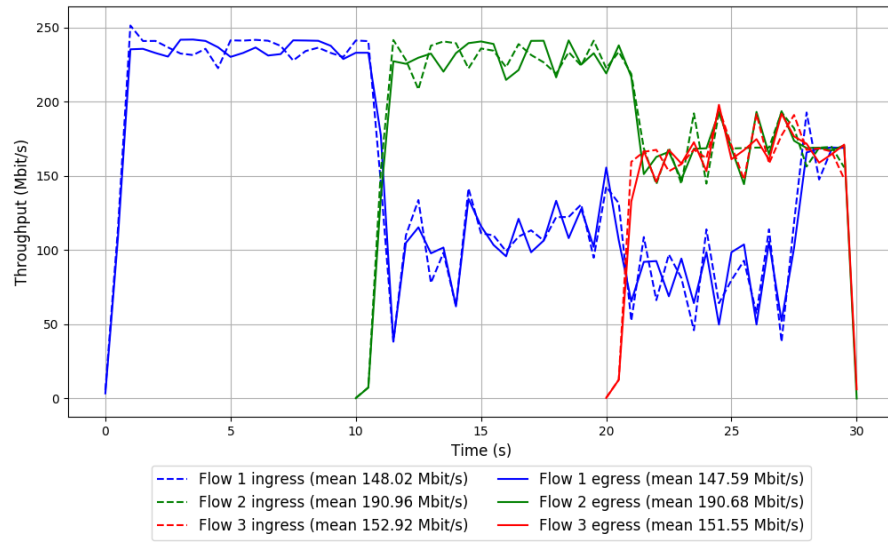
-- Flow 3:

Average throughput: 151.55 Mbit/s

95th percentile per-packet one-way delay: 121.565 ms

Loss rate: 0.54%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 18:37:17

End at: 2018-01-26 18:37:47

Below is generated by plot.py at 2018-01-26 22:35:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.90 Mbit/s

95th percentile per-packet one-way delay: 65.828 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 126.21 Mbit/s

95th percentile per-packet one-way delay: 62.298 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.19 Mbit/s

95th percentile per-packet one-way delay: 66.223 ms

Loss rate: 0.03%

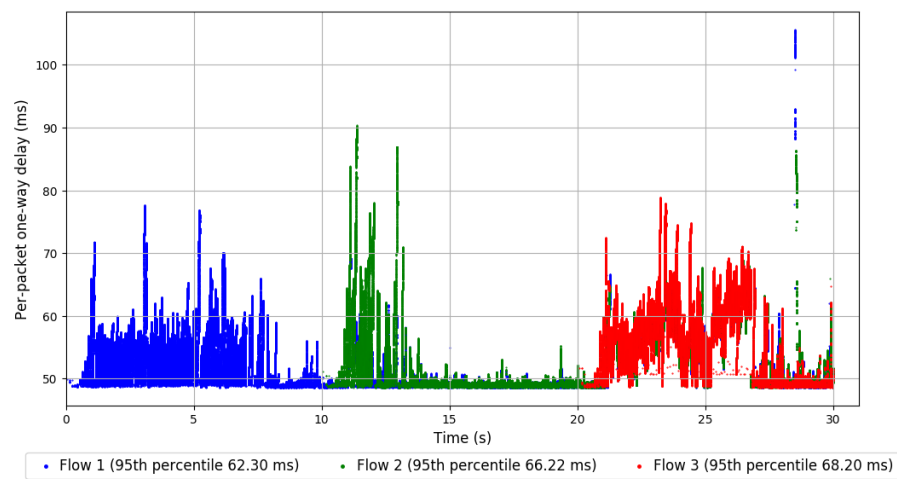
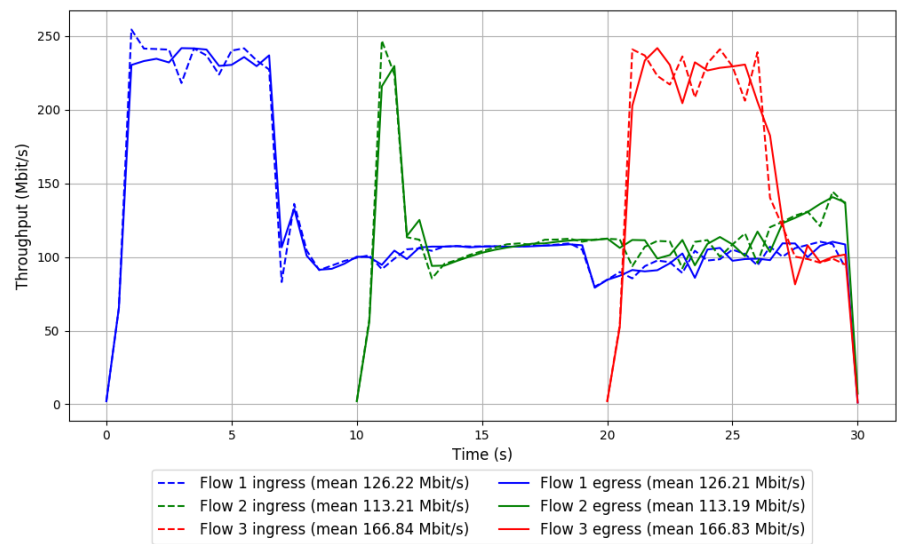
-- Flow 3:

Average throughput: 166.83 Mbit/s

95th percentile per-packet one-way delay: 68.196 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 18:51:07

End at: 2018-01-26 18:51:37

Below is generated by plot.py at 2018-01-26 22:35:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.83 Mbit/s

95th percentile per-packet one-way delay: 60.535 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 58.742 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 161.22 Mbit/s

95th percentile per-packet one-way delay: 60.157 ms

Loss rate: 0.00%

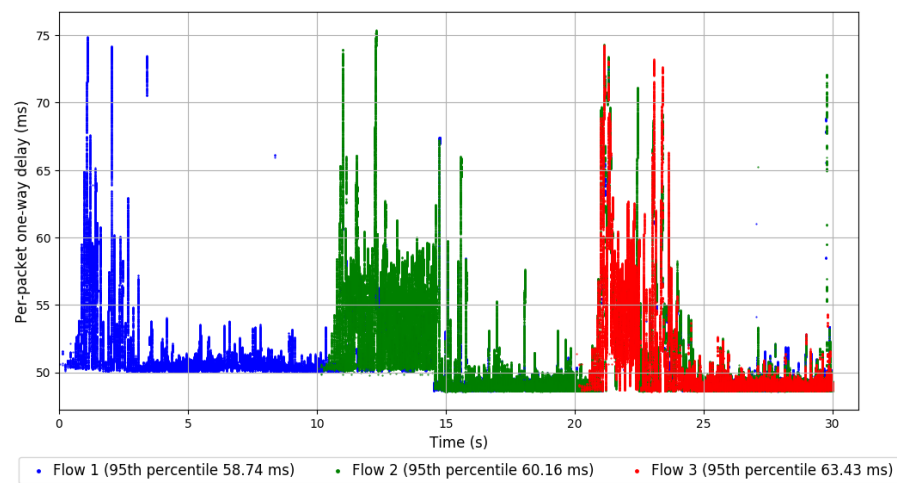
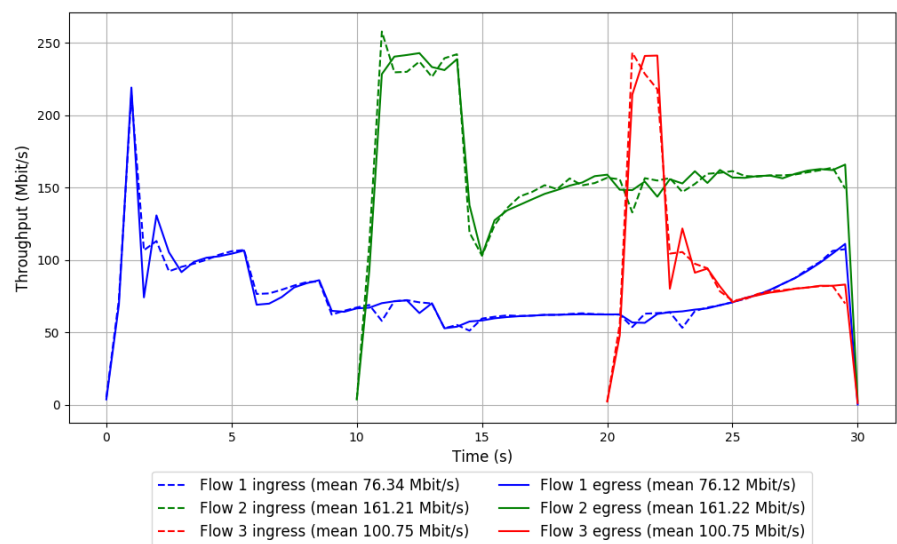
-- Flow 3:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 19:05:02

End at: 2018-01-26 19:05:32

Run 3: Report of TCP Cubic — Data Link

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Figure is missing

Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 19:18:35

End at: 2018-01-26 19:19:05

Below is generated by plot.py at 2018-01-26 22:35:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.22 Mbit/s

95th percentile per-packet one-way delay: 61.995 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 91.39 Mbit/s

95th percentile per-packet one-way delay: 60.733 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 94.04 Mbit/s

95th percentile per-packet one-way delay: 59.239 ms

Loss rate: 0.00%

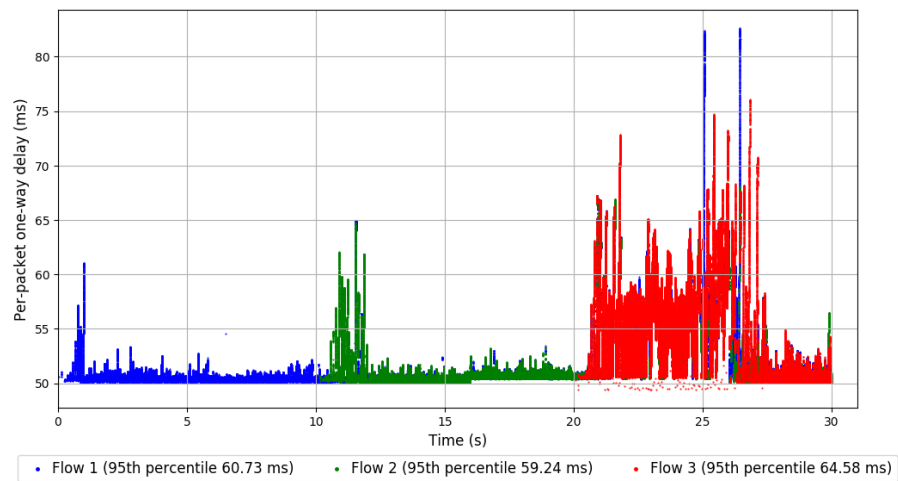
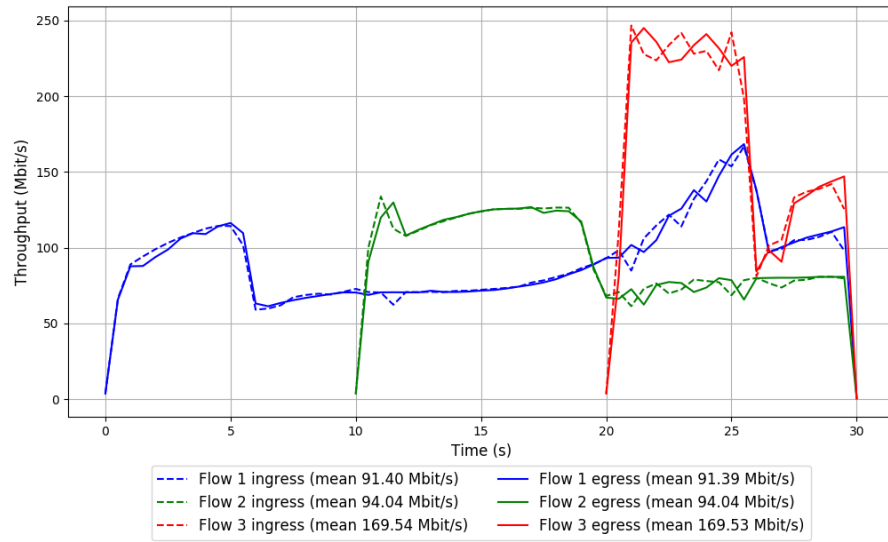
-- Flow 3:

Average throughput: 169.53 Mbit/s

95th percentile per-packet one-way delay: 64.579 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 19:32:20

End at: 2018-01-26 19:32:50

Below is generated by plot.py at 2018-01-26 22:35:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.69 Mbit/s

95th percentile per-packet one-way delay: 87.243 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 127.11 Mbit/s

95th percentile per-packet one-way delay: 83.830 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.24 Mbit/s

95th percentile per-packet one-way delay: 85.246 ms

Loss rate: 0.12%

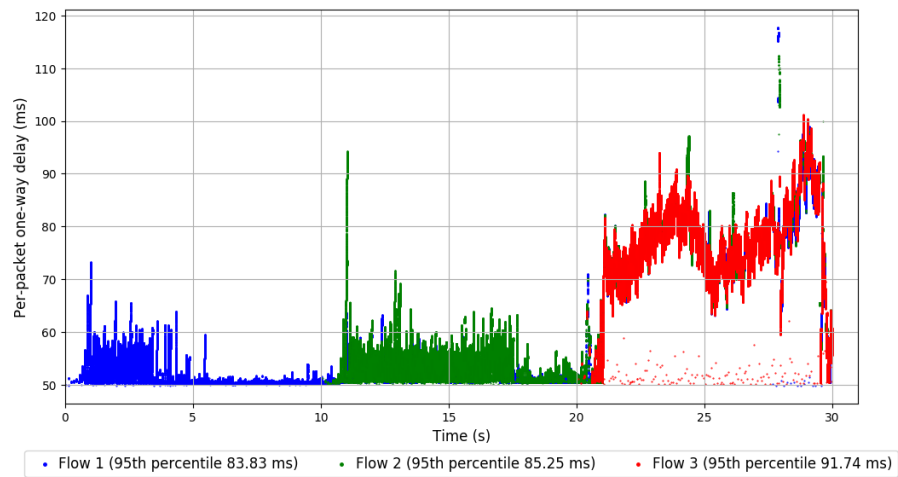
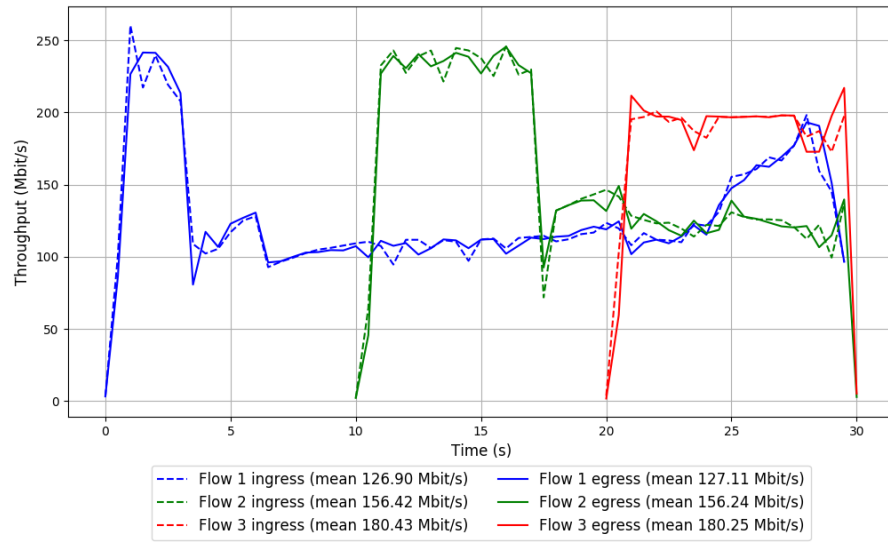
-- Flow 3:

Average throughput: 180.25 Mbit/s

95th percentile per-packet one-way delay: 91.736 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 19:46:21

End at: 2018-01-26 19:46:51

Below is generated by plot.py at 2018-01-26 22:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.62 Mbit/s

95th percentile per-packet one-way delay: 63.117 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 132.76 Mbit/s

95th percentile per-packet one-way delay: 61.159 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 154.79 Mbit/s

95th percentile per-packet one-way delay: 61.751 ms

Loss rate: 0.40%

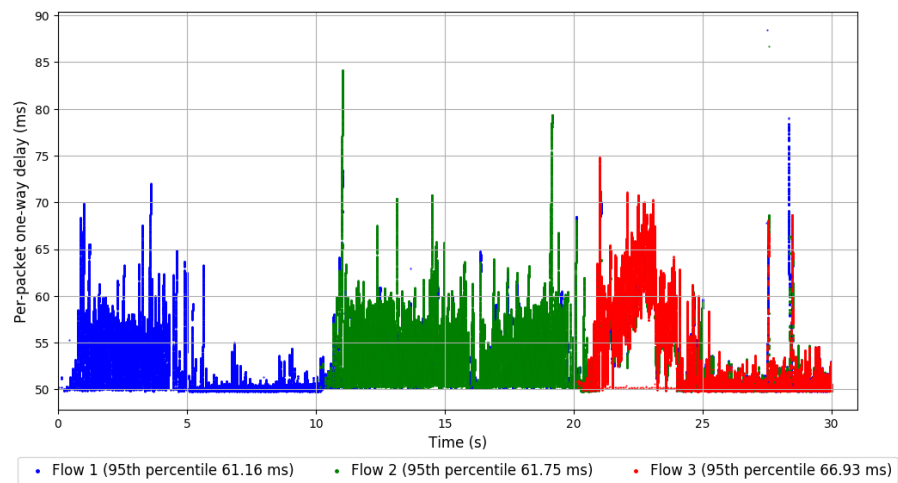
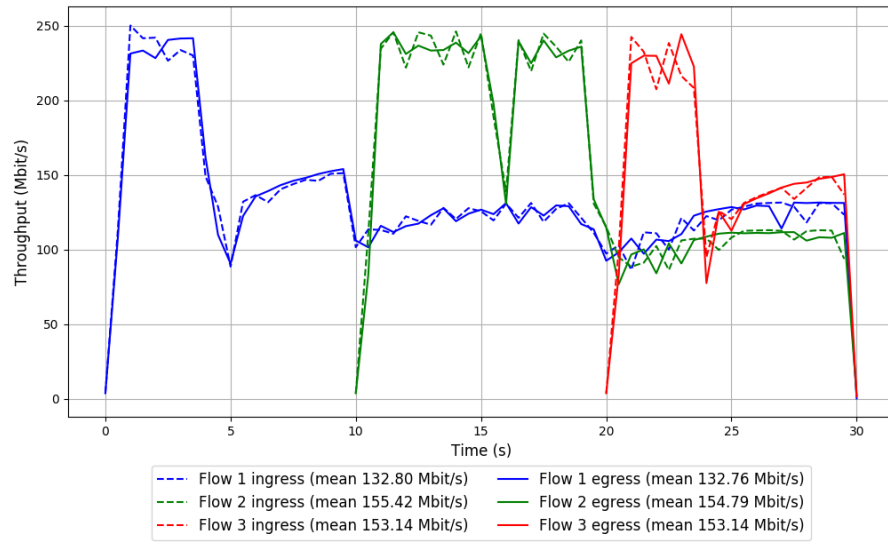
-- Flow 3:

Average throughput: 153.14 Mbit/s

95th percentile per-packet one-way delay: 66.929 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 20:00:19

End at: 2018-01-26 20:00:49

Below is generated by plot.py at 2018-01-26 22:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.66 Mbit/s

95th percentile per-packet one-way delay: 58.832 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 109.78 Mbit/s

95th percentile per-packet one-way delay: 57.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 60.660 ms

Loss rate: 0.01%

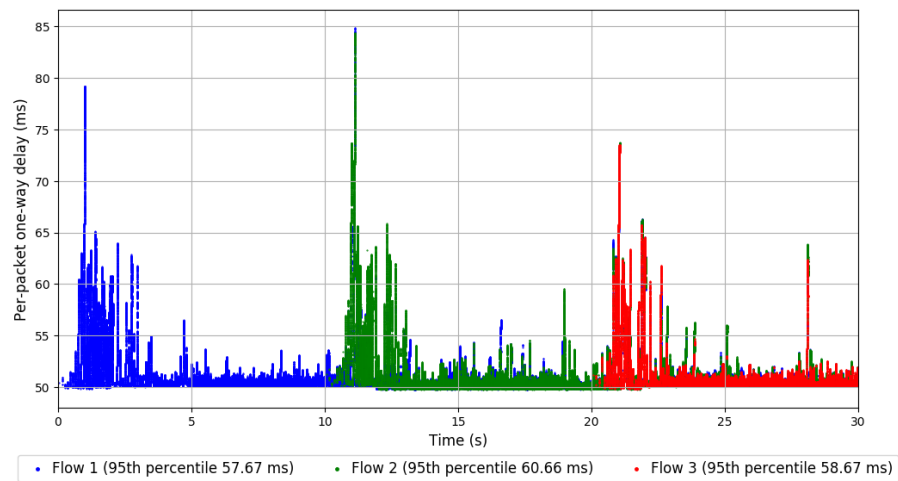
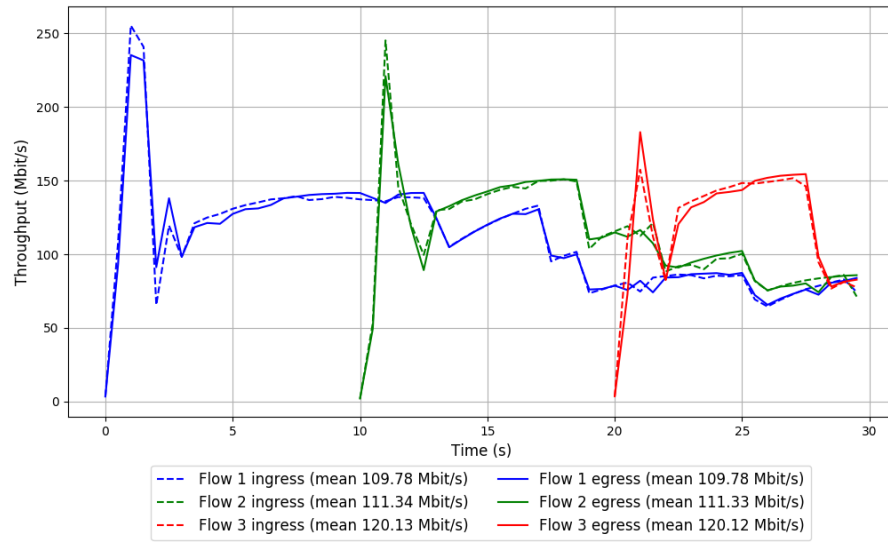
-- Flow 3:

Average throughput: 120.12 Mbit/s

95th percentile per-packet one-way delay: 58.666 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 20:14:12

End at: 2018-01-26 20:14:42

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.20 Mbit/s

95th percentile per-packet one-way delay: 60.763 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 143.65 Mbit/s

95th percentile per-packet one-way delay: 59.456 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 122.02 Mbit/s

95th percentile per-packet one-way delay: 61.352 ms

Loss rate: 0.00%

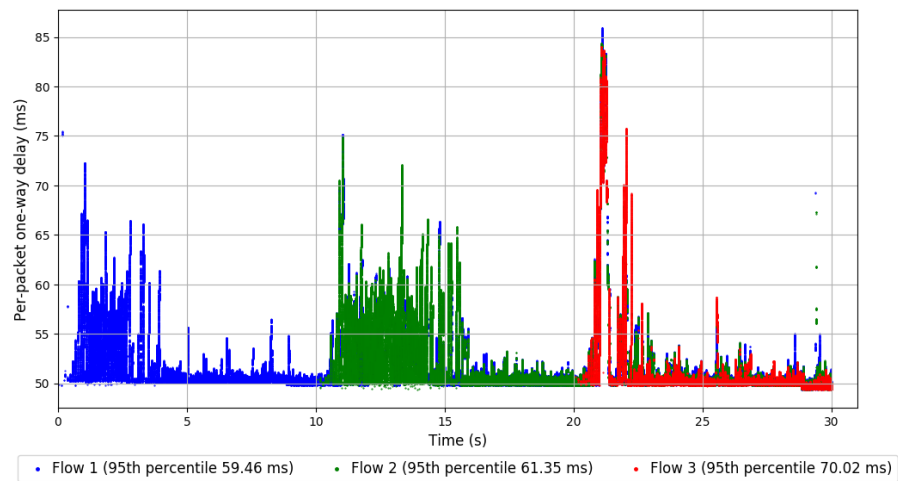
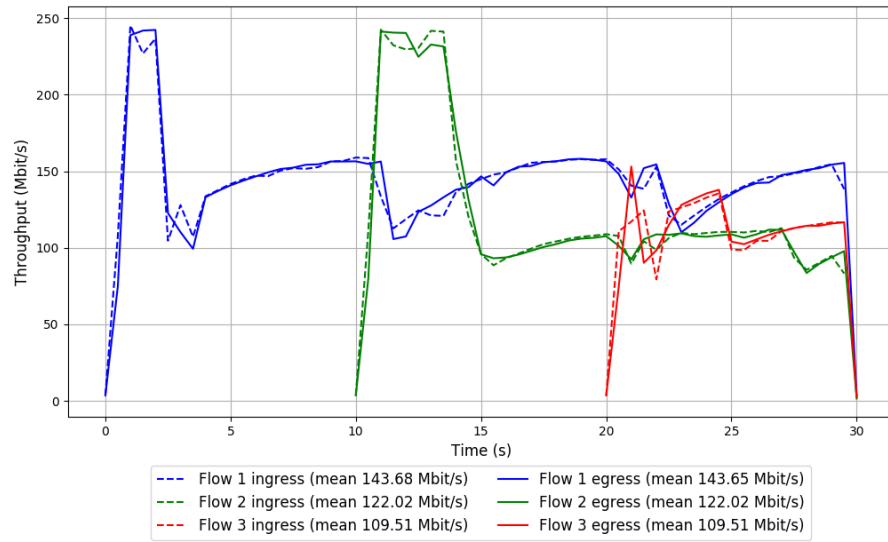
-- Flow 3:

Average throughput: 109.51 Mbit/s

95th percentile per-packet one-way delay: 70.023 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 20:27:53

End at: 2018-01-26 20:28:23

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.96 Mbit/s

95th percentile per-packet one-way delay: 61.754 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 84.99 Mbit/s

95th percentile per-packet one-way delay: 57.757 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 183.74 Mbit/s

95th percentile per-packet one-way delay: 63.334 ms

Loss rate: 0.00%

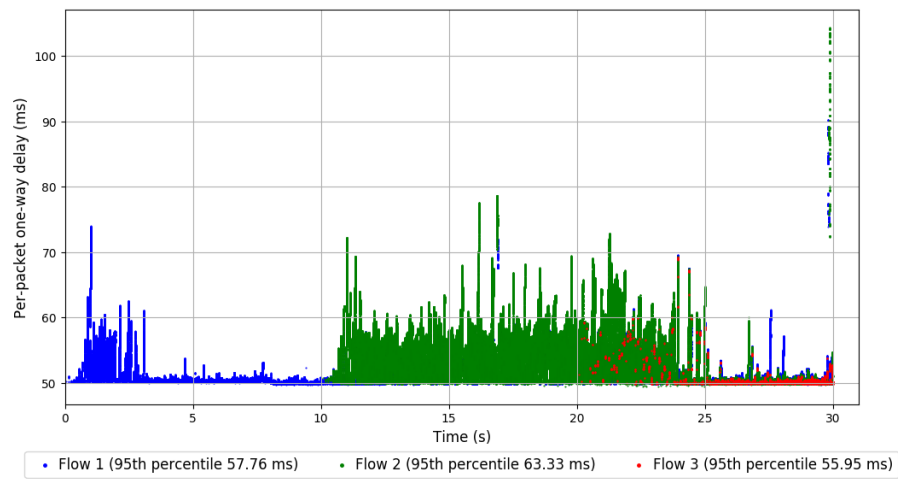
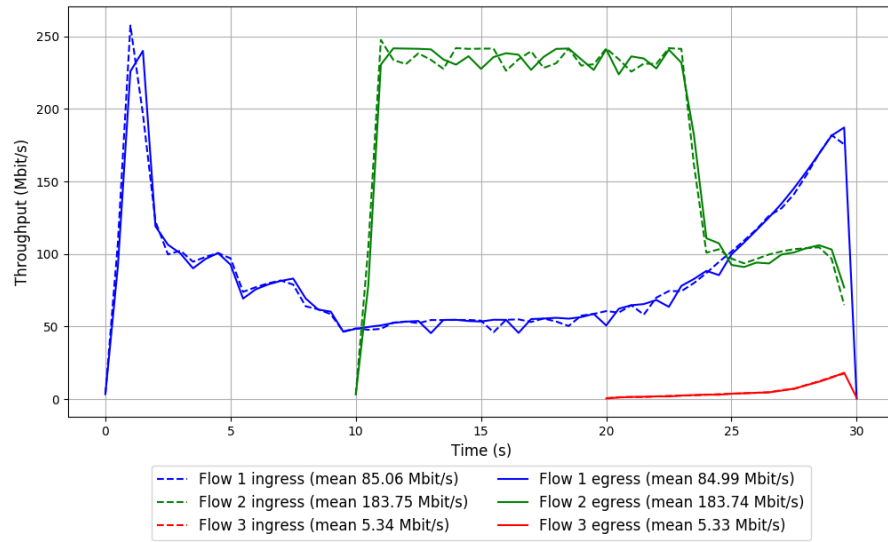
-- Flow 3:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 55.946 ms

Loss rate: 0.16%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 20:41:42

End at: 2018-01-26 20:42:12

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.47 Mbit/s

95th percentile per-packet one-way delay: 58.013 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 84.48 Mbit/s

95th percentile per-packet one-way delay: 57.198 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 99.33 Mbit/s

95th percentile per-packet one-way delay: 58.823 ms

Loss rate: 0.02%

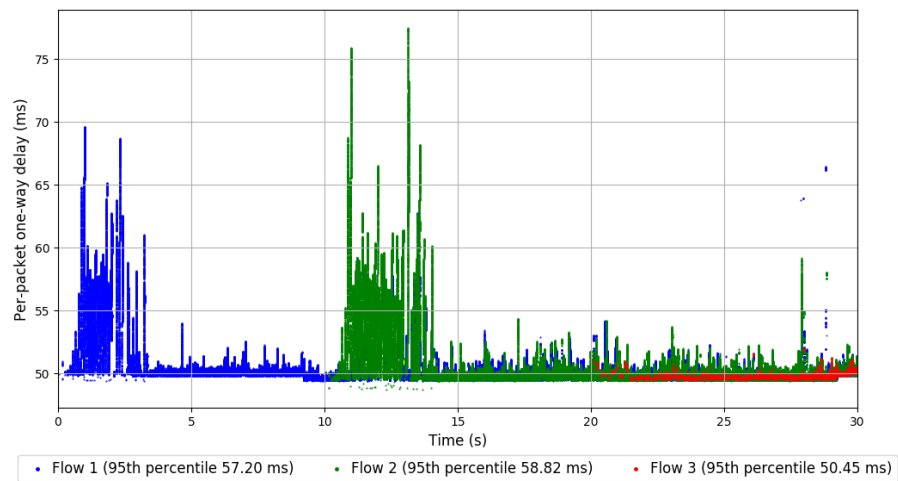
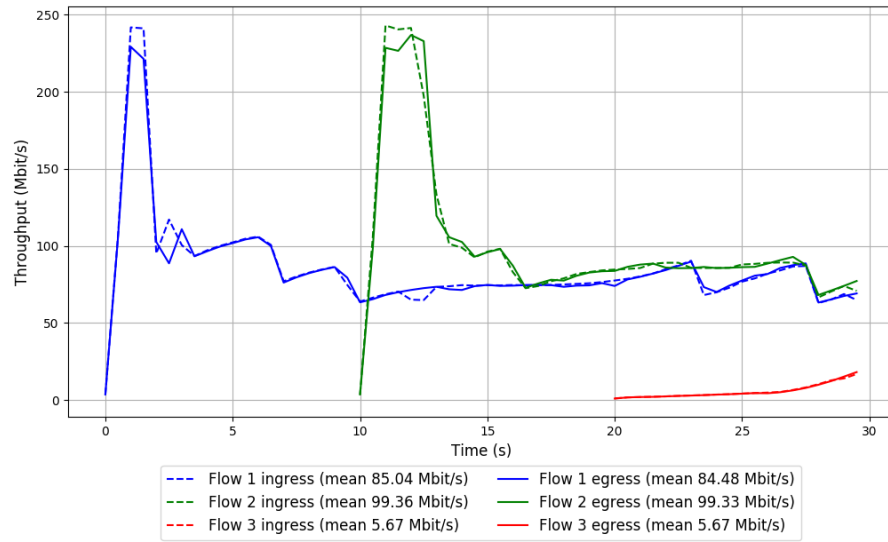
-- Flow 3:

Average throughput: 5.67 Mbit/s

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

Loss rate: 0.09%

Run 10: Report of TCP Cubic — Data Link

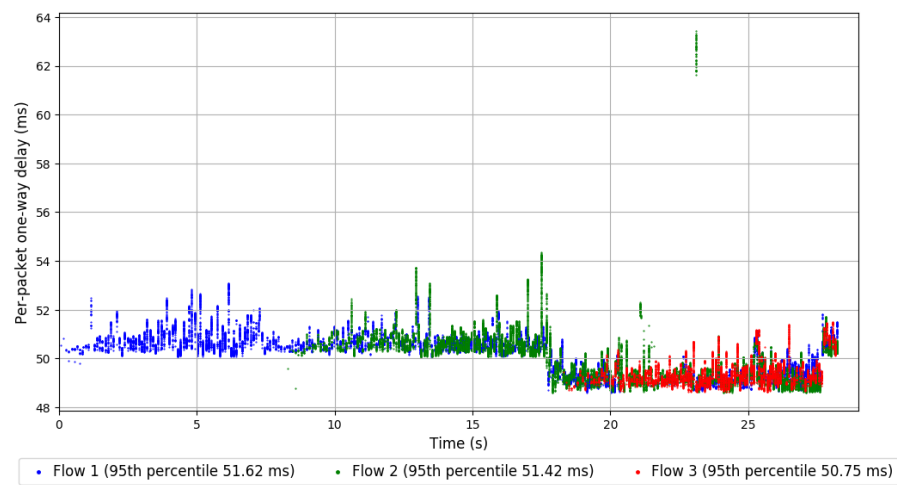
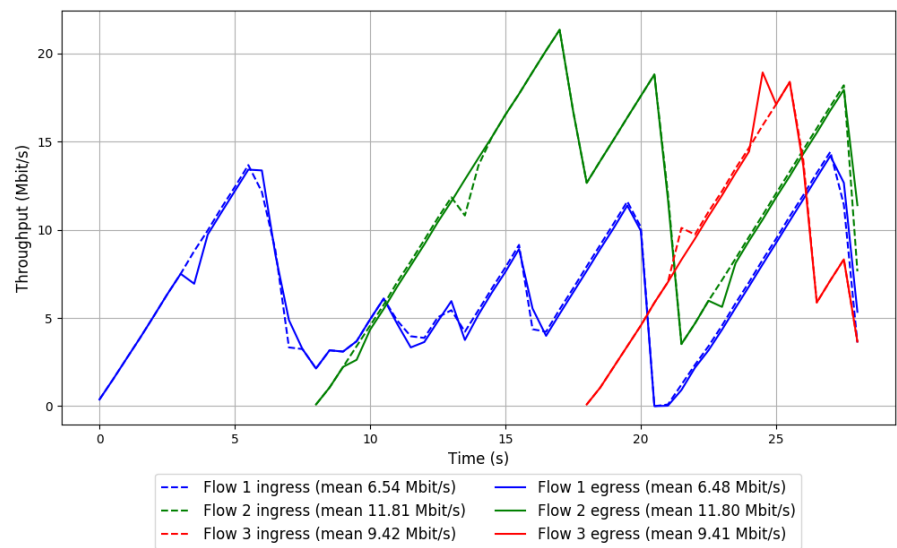


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 18:40:42
End at: 2018-01-26 18:41:12

# Below is generated by plot.py at 2018-01-26 22:38:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 51.398 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 51.615 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 51.421 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 50.751 ms
Loss rate: 0.18%
```


Run 1: Report of LEDBAT — Data Link

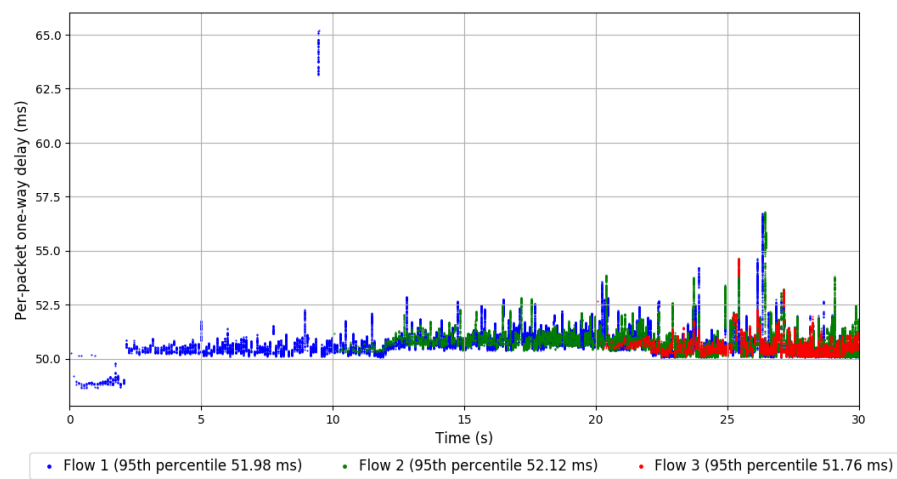
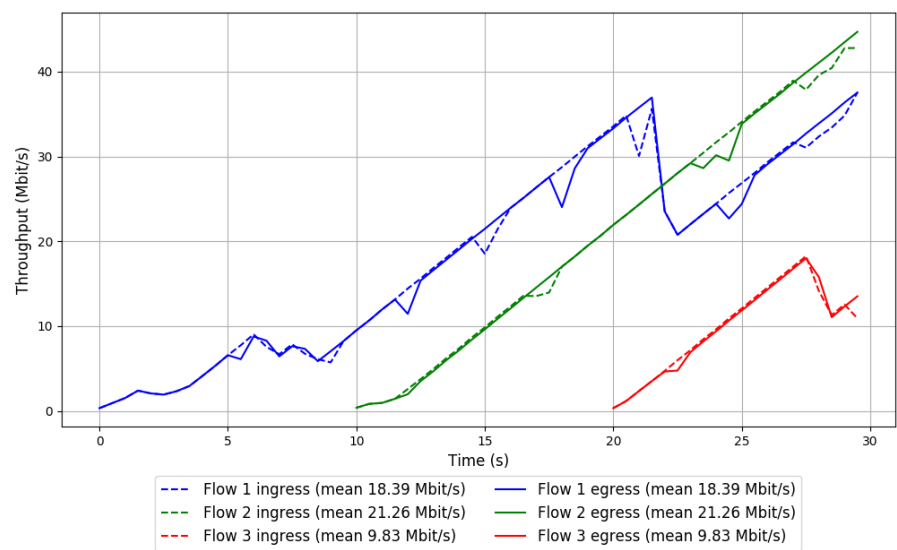


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 18:54:29
End at: 2018-01-26 18:54:59

# Below is generated by plot.py at 2018-01-26 22:38:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 52.018 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.39 Mbit/s
95th percentile per-packet one-way delay: 51.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.26 Mbit/s
95th percentile per-packet one-way delay: 52.122 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 51.762 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 19:08:06

End at: 2018-01-26 19:08:36

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.51 Mbit/s

95th percentile per-packet one-way delay: 51.454 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 51.527 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 1.08%

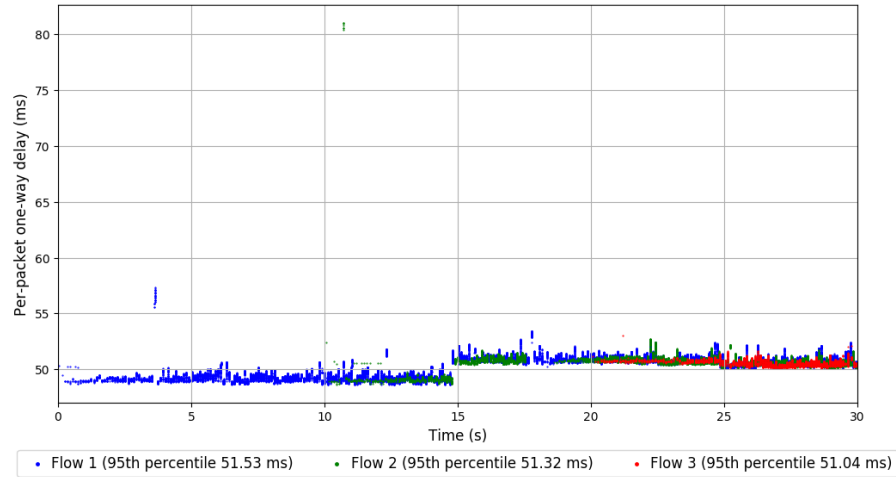
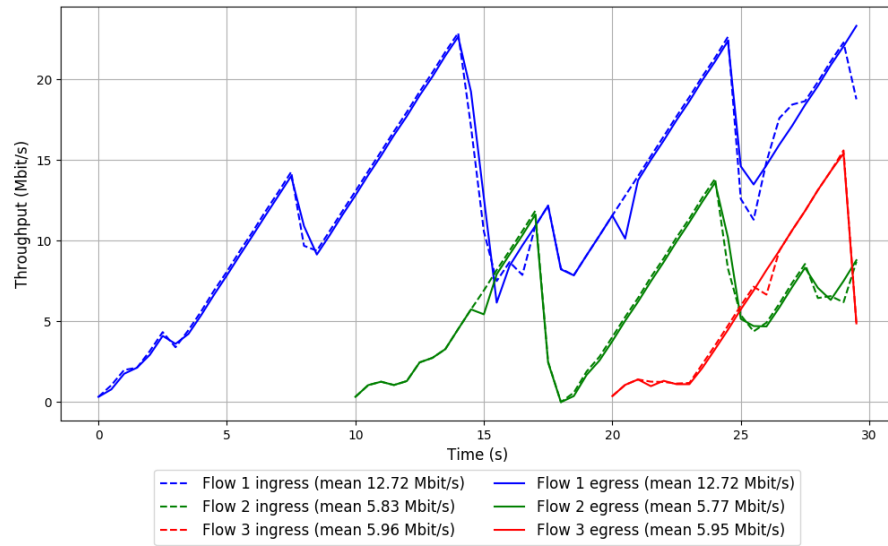
-- Flow 3:

Average throughput: 5.95 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.16%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 19:21:58

End at: 2018-01-26 19:22:28

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 51.933 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 13.89 Mbit/s

95th percentile per-packet one-way delay: 52.095 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 8.49 Mbit/s

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

Loss rate: 0.06%

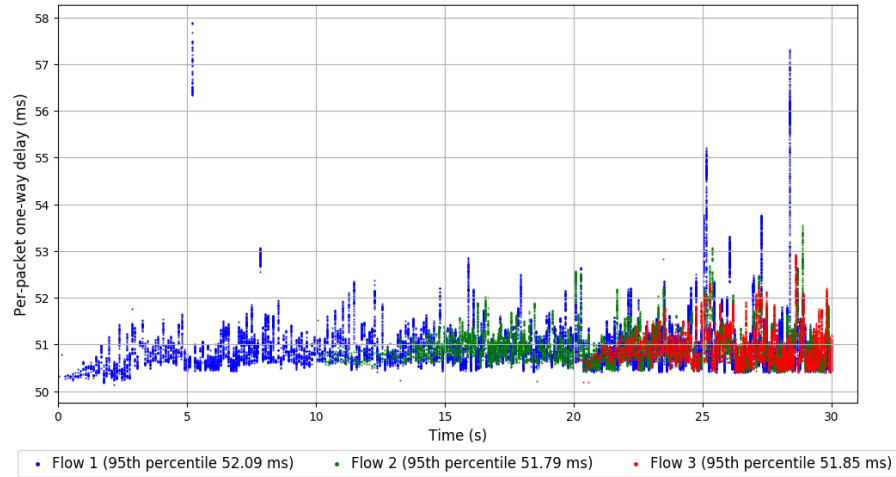
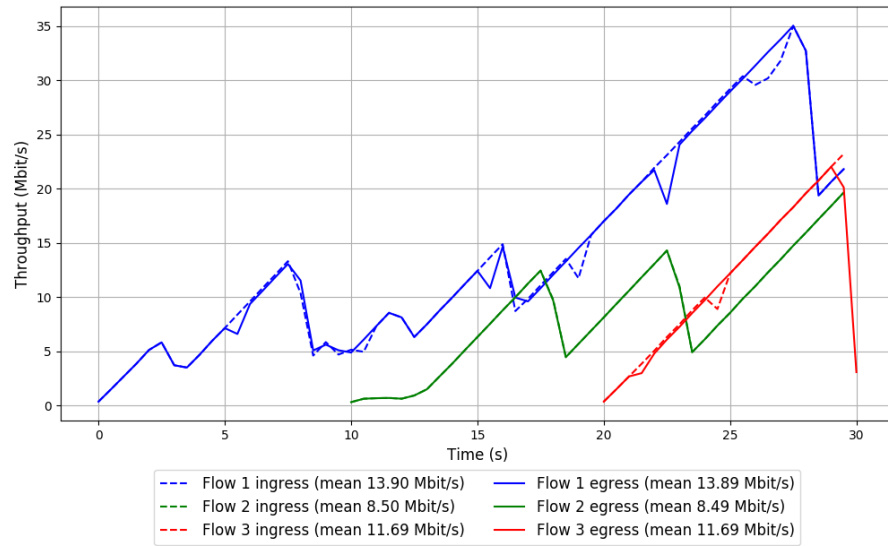
-- Flow 3:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 51.846 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 19:35:50

End at: 2018-01-26 19:36:20

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 51.268 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 51.270 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 51.279 ms

Loss rate: 1.14%

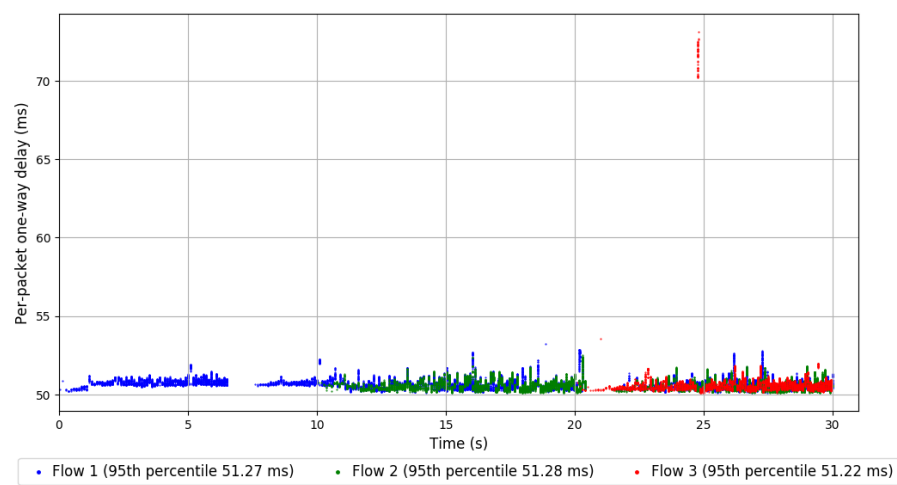
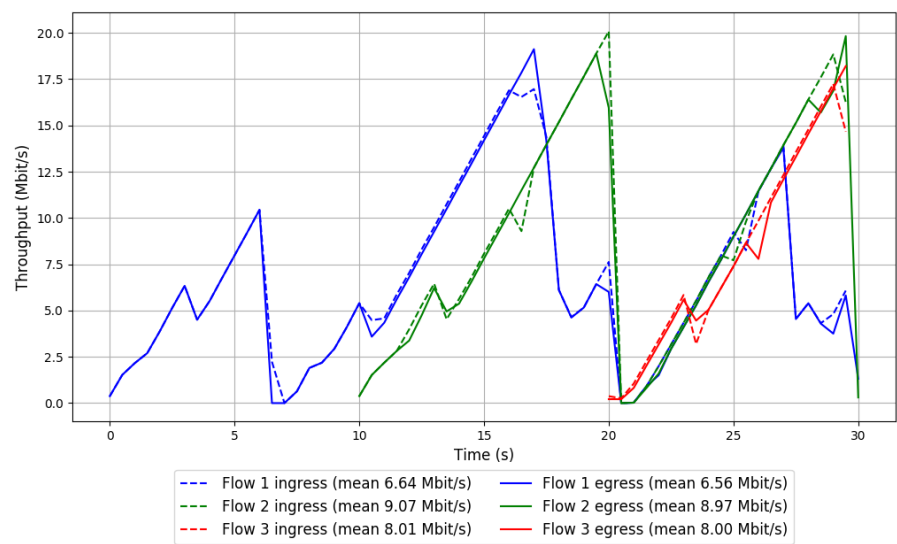
-- Flow 3:

Average throughput: 8.00 Mbit/s

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

Loss rate: 0.09%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-26 19:49:47

End at: 2018-01-26 19:50:17

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 51.200 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 51.248 ms

Loss rate: 0.00%

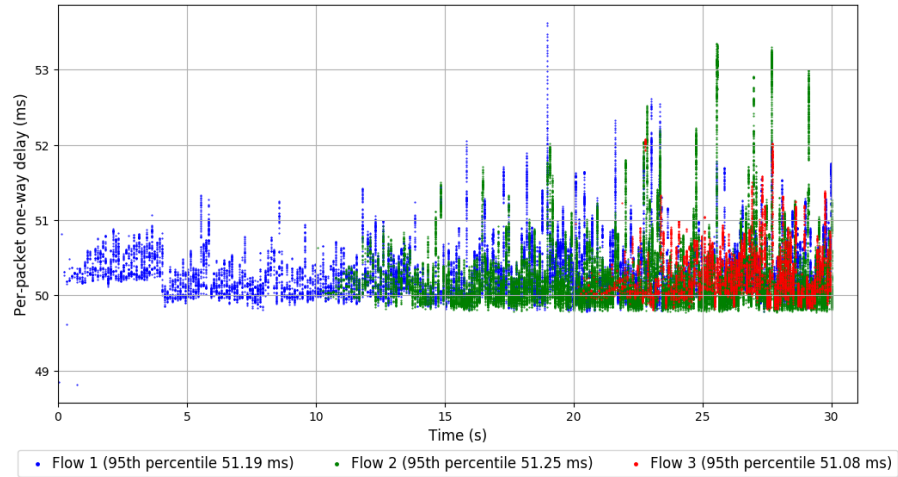
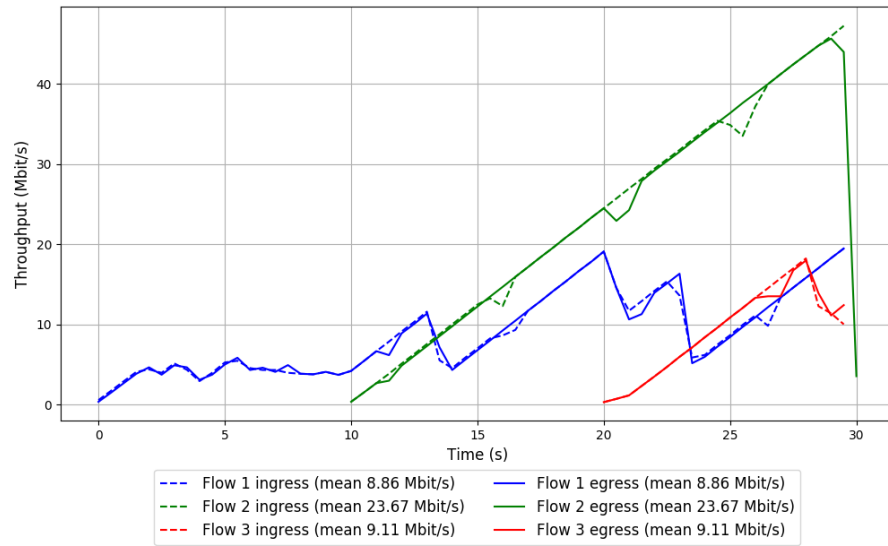
-- Flow 3:

Average throughput: 9.11 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 20:03:42

End at: 2018-01-26 20:04:12

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.74 Mbit/s

95th percentile per-packet one-way delay: 51.351 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 51.255 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 14.59 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.00%

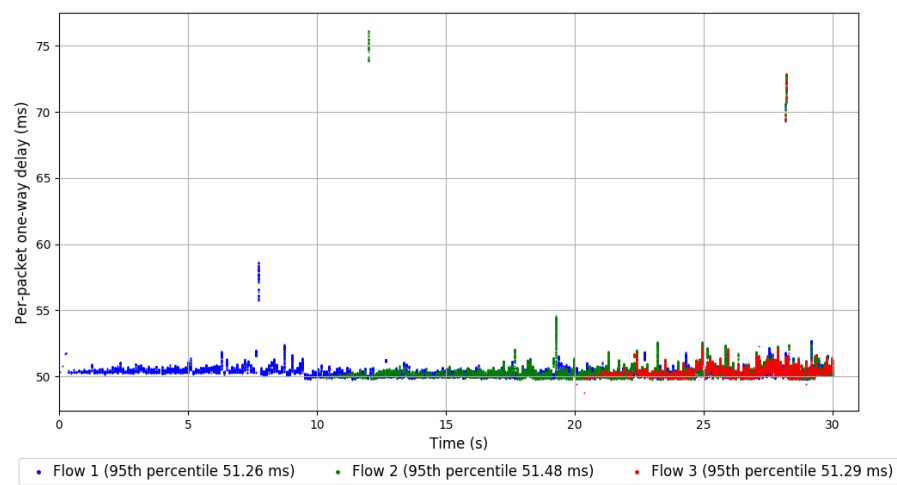
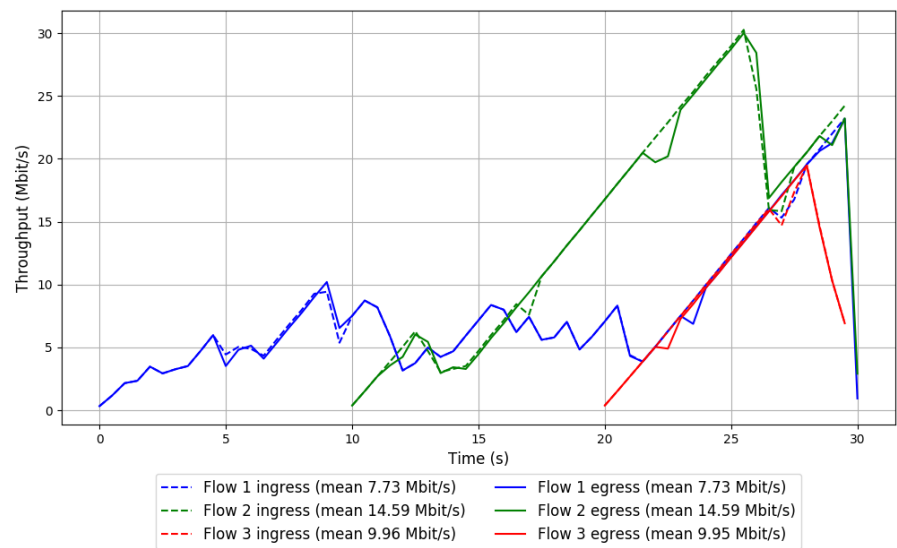
-- Flow 3:

Average throughput: 9.95 Mbit/s

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

Loss rate: 0.06%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 20:17:35

End at: 2018-01-26 20:18:05

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 51.430 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 8.78 Mbit/s

95th percentile per-packet one-way delay: 51.364 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 8.56 Mbit/s

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

Loss rate: 0.27%

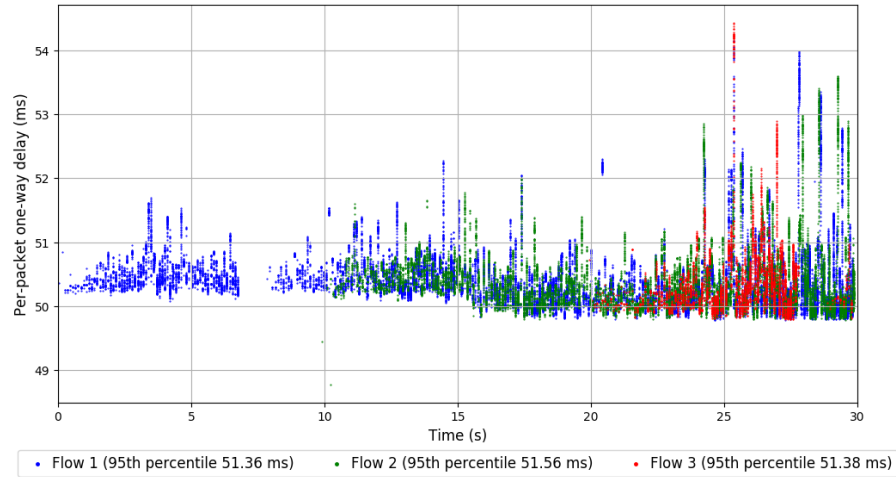
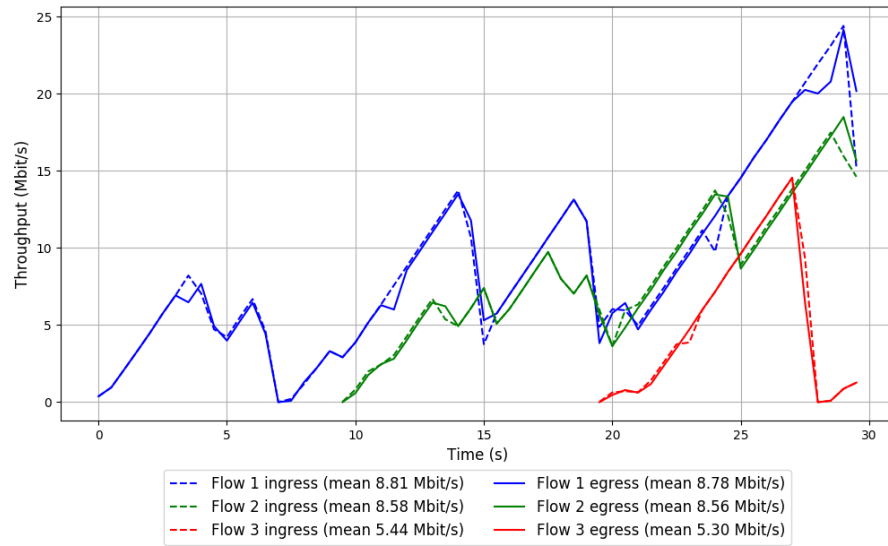
-- Flow 3:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 51.379 ms

Loss rate: 2.67%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 20:31:14

End at: 2018-01-26 20:31:44

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.57 Mbit/s

95th percentile per-packet one-way delay: 51.376 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 51.525 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 5.28 Mbit/s

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

Loss rate: 2.77%

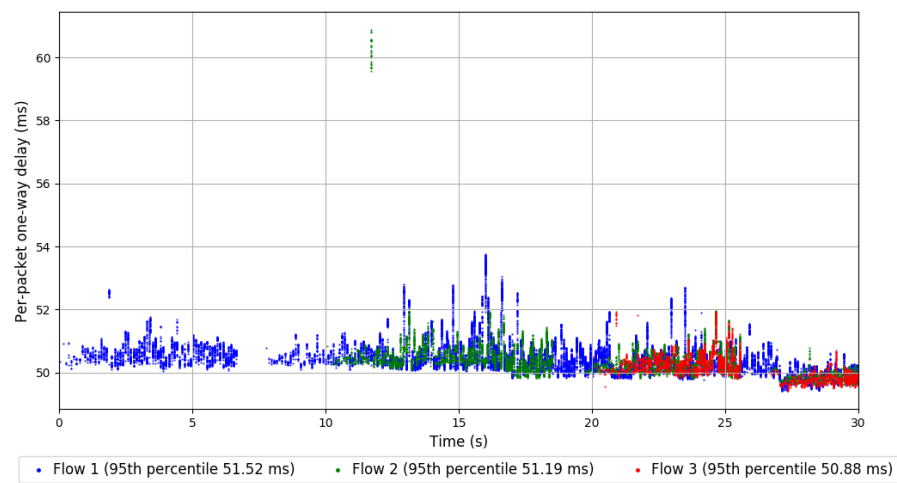
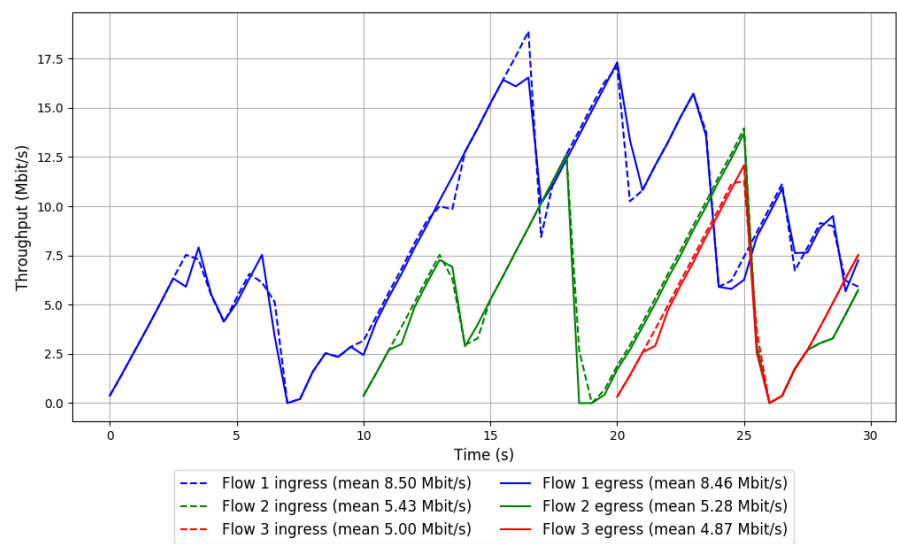
-- Flow 3:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 50.881 ms

Loss rate: 2.66%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 20:45:04

End at: 2018-01-26 20:45:34

Below is generated by plot.py at 2018-01-26 22:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 50.798 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 50.705 ms

Loss rate: 0.58%

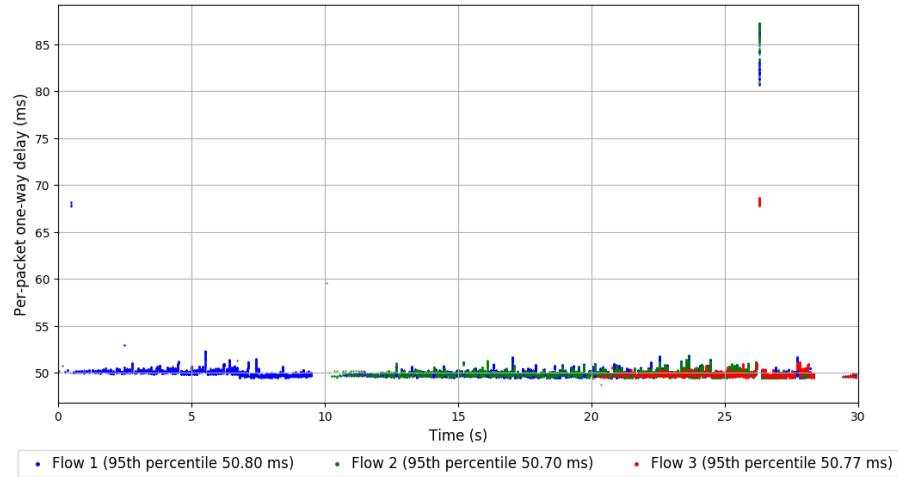
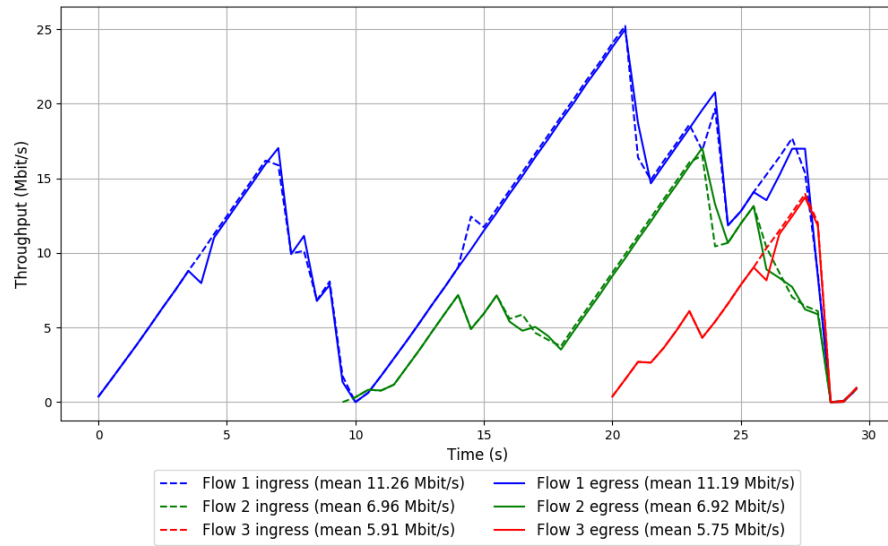
-- Flow 3:

Average throughput: 5.75 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 2.64%

Run 10: Report of LEDBAT — Data Link

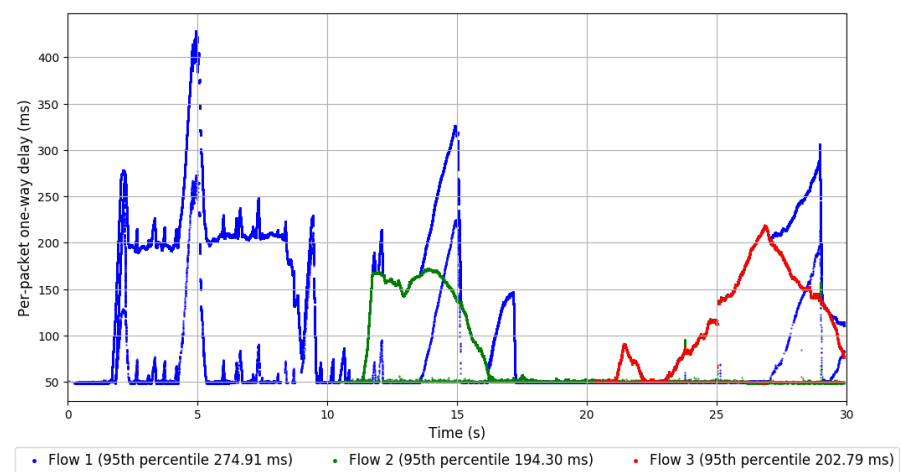
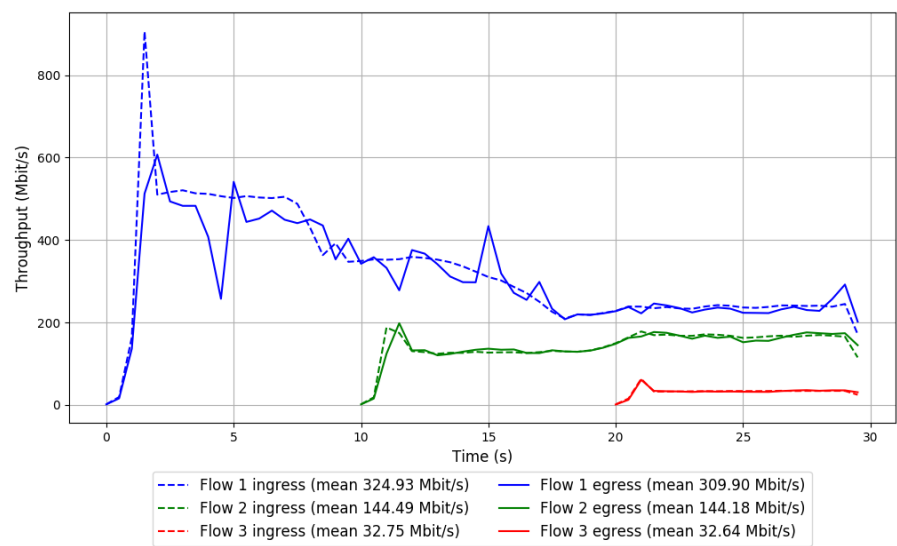


```
Run 1: Statistics of PCC

Start at: 2018-01-26 18:39:45
End at: 2018-01-26 18:40:15

# Below is generated by plot.py at 2018-01-26 22:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.44 Mbit/s
95th percentile per-packet one-way delay: 262.666 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 309.90 Mbit/s
95th percentile per-packet one-way delay: 274.913 ms
Loss rate: 4.63%
-- Flow 2:
Average throughput: 144.18 Mbit/s
95th percentile per-packet one-way delay: 194.302 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 202.789 ms
Loss rate: 0.32%
```

Run 1: Report of PCC — Data Link

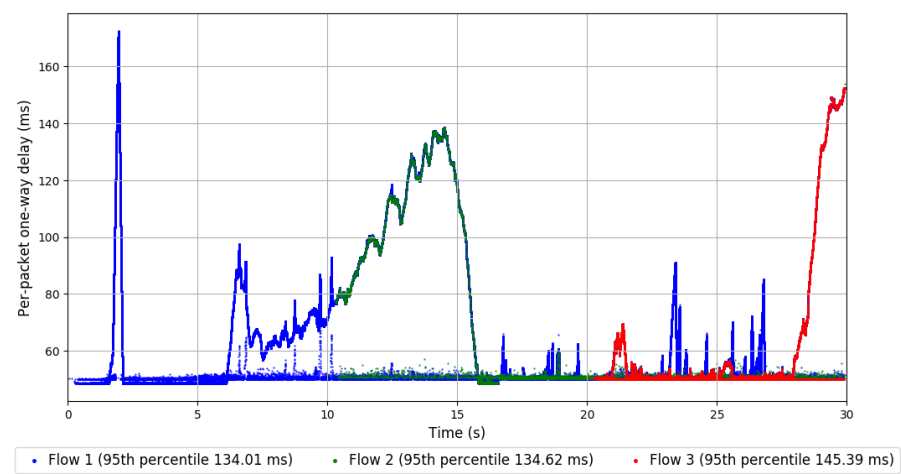
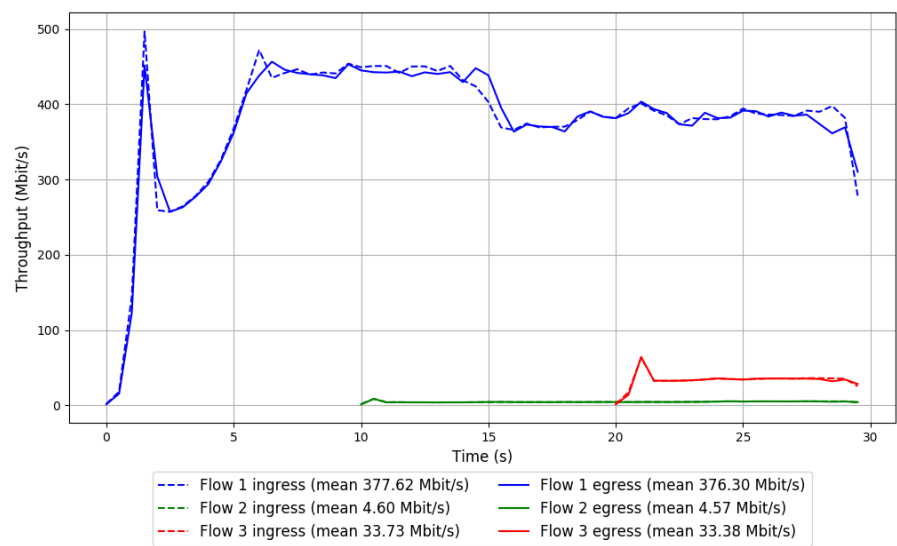


```
Run 2: Statistics of PCC

Start at: 2018-01-26 18:53:34
End at: 2018-01-26 18:54:04

# Below is generated by plot.py at 2018-01-26 22:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.32 Mbit/s
95th percentile per-packet one-way delay: 134.196 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 376.30 Mbit/s
95th percentile per-packet one-way delay: 134.015 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 134.622 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 145.387 ms
Loss rate: 1.07%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 19:07:11

End at: 2018-01-26 19:07:41

Below is generated by plot.py at 2018-01-26 22:43:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 418.06 Mbit/s

95th percentile per-packet one-way delay: 168.589 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 368.05 Mbit/s

95th percentile per-packet one-way delay: 166.631 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.01 Mbit/s

95th percentile per-packet one-way delay: 173.940 ms

Loss rate: 0.00%

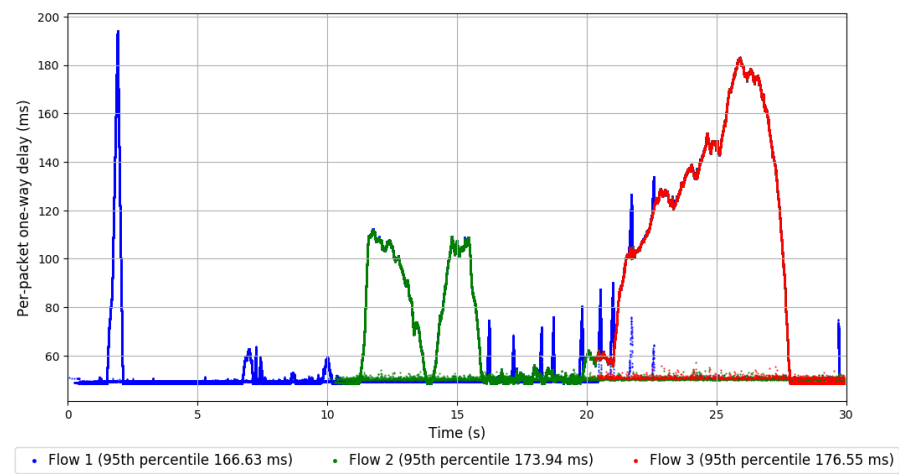
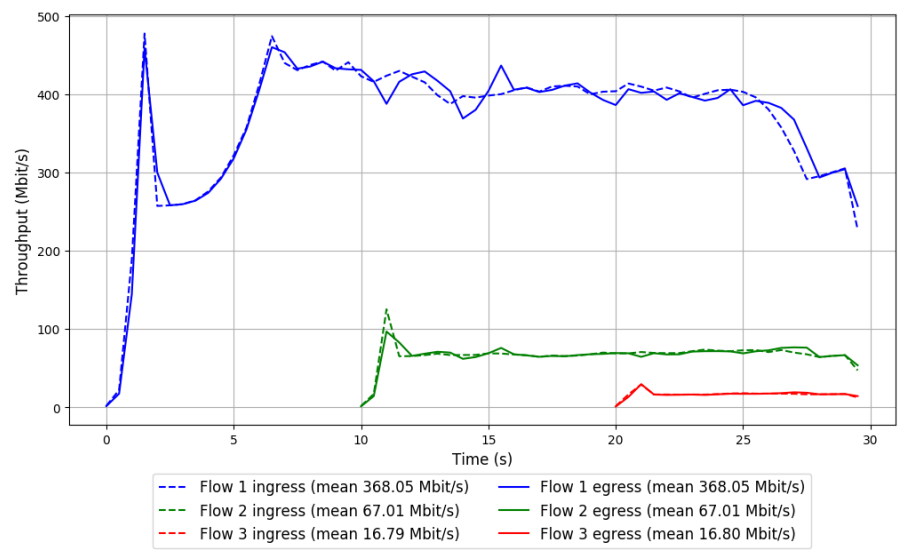
-- Flow 3:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 176.554 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 19:21:04

End at: 2018-01-26 19:21:34

Below is generated by plot.py at 2018-01-26 22:43:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.57 Mbit/s

95th percentile per-packet one-way delay: 221.637 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 336.10 Mbit/s

95th percentile per-packet one-way delay: 221.366 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 66.35 Mbit/s

95th percentile per-packet one-way delay: 223.274 ms

Loss rate: 0.80%

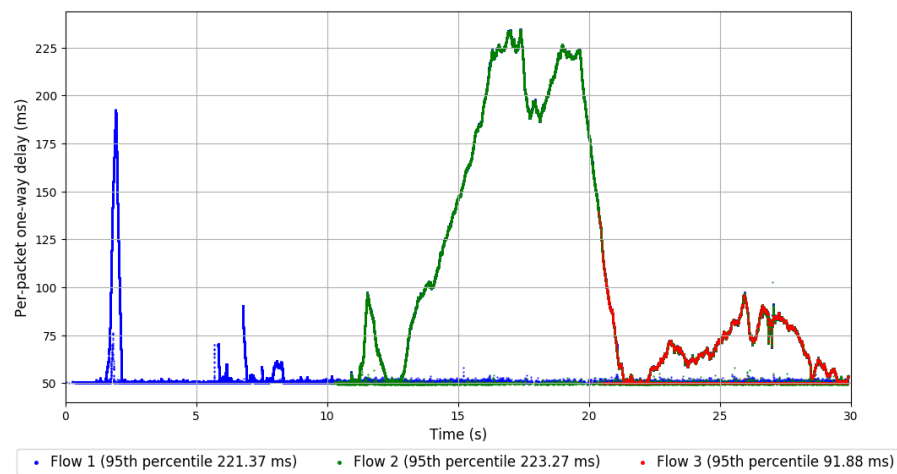
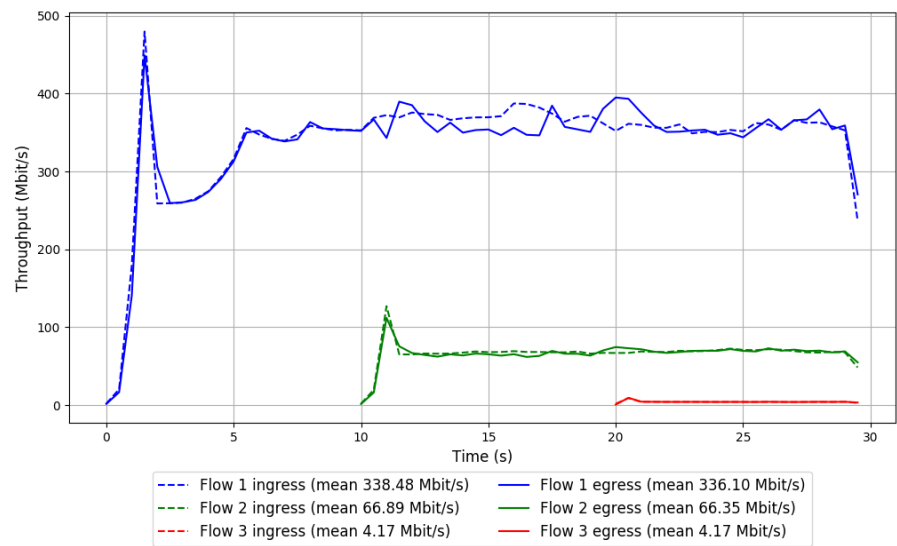
-- Flow 3:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 91.876 ms

Loss rate: 0.03%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 19:34:55

End at: 2018-01-26 19:35:25

Below is generated by plot.py at 2018-01-26 22:44:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.08 Mbit/s

95th percentile per-packet one-way delay: 220.208 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 397.61 Mbit/s

95th percentile per-packet one-way delay: 220.317 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 221.717 ms

Loss rate: 1.16%

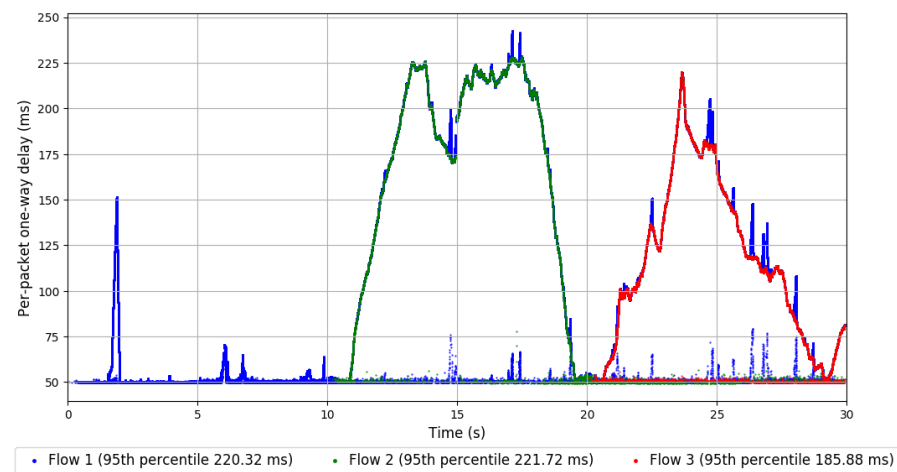
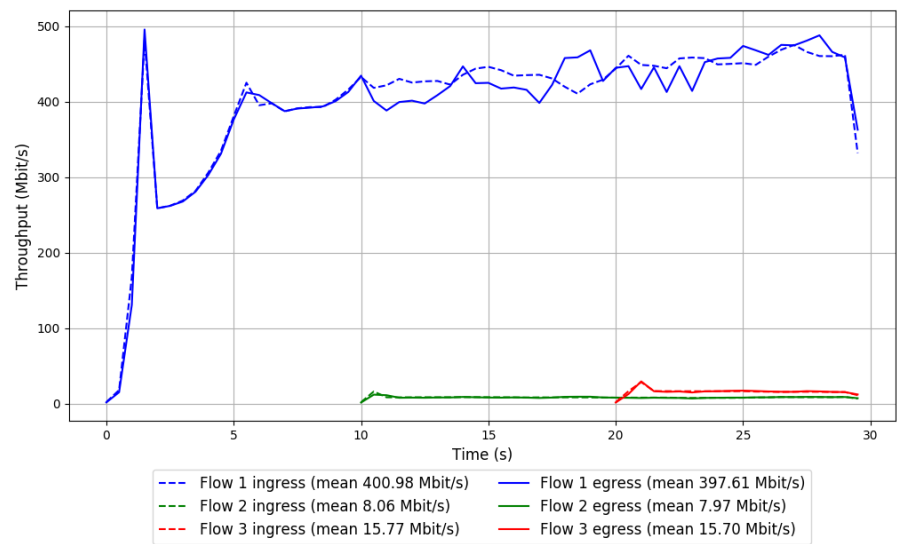
-- Flow 3:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 185.877 ms

Loss rate: 0.47%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 19:48:52

End at: 2018-01-26 19:49:22

Below is generated by plot.py at 2018-01-26 22:44:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.52 Mbit/s

95th percentile per-packet one-way delay: 206.524 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 382.44 Mbit/s

95th percentile per-packet one-way delay: 207.634 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 207.647 ms

Loss rate: 0.94%

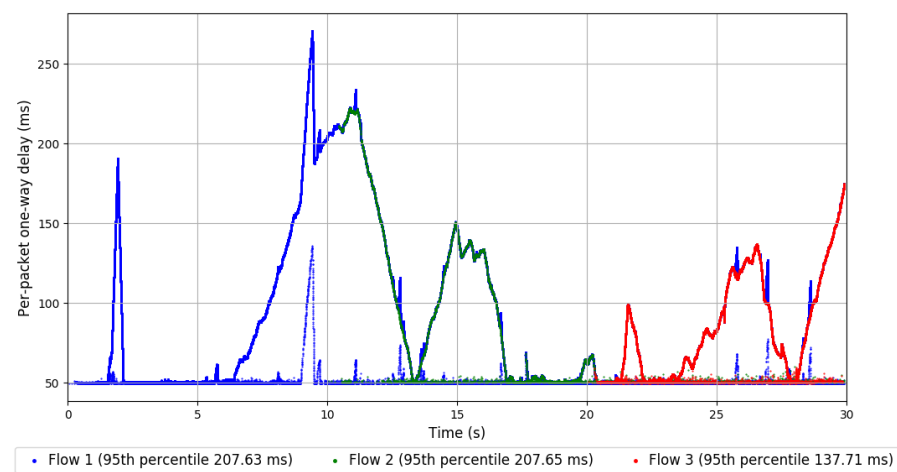
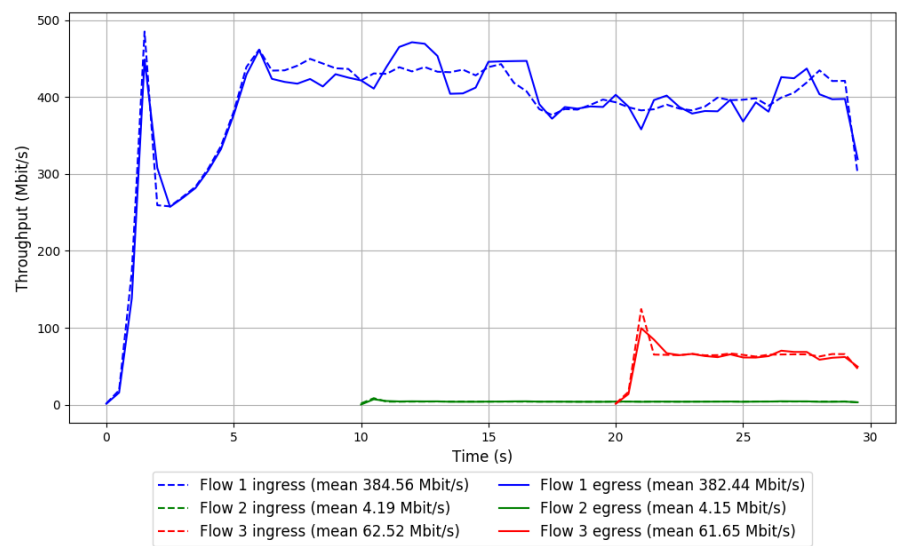
-- Flow 3:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 137.705 ms

Loss rate: 1.37%

Run 6: Report of PCC — Data Link

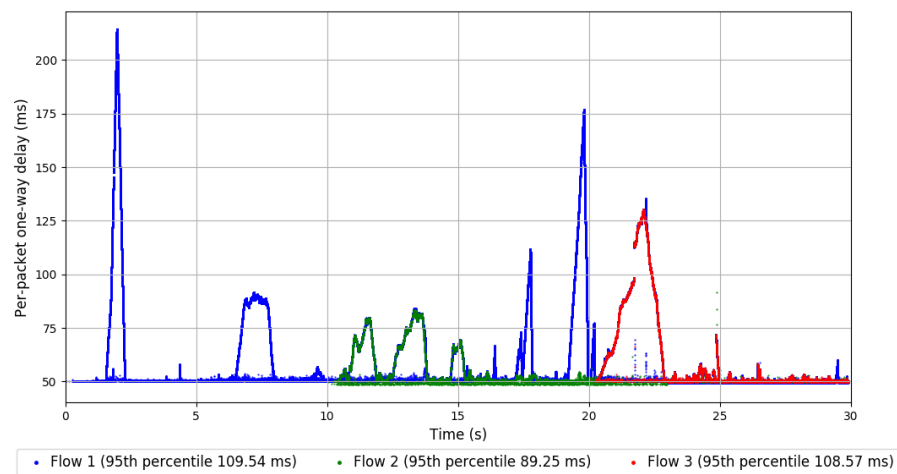
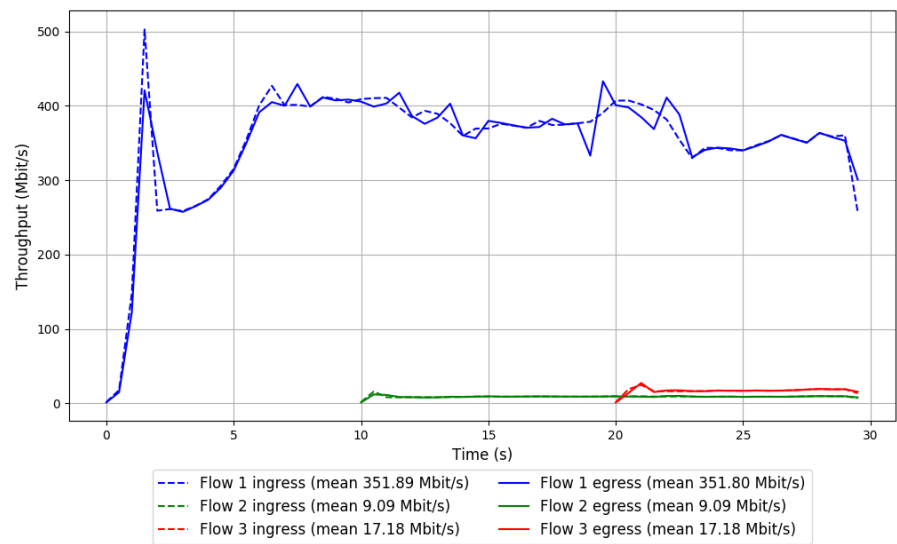


```
Run 7: Statistics of PCC

Start at: 2018-01-26 20:02:48
End at: 2018-01-26 20:03:18

# Below is generated by plot.py at 2018-01-26 22:45:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.50 Mbit/s
95th percentile per-packet one-way delay: 108.931 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 351.80 Mbit/s
95th percentile per-packet one-way delay: 109.539 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 89.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.18 Mbit/s
95th percentile per-packet one-way delay: 108.570 ms
Loss rate: 0.00%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 20:16:41

End at: 2018-01-26 20:17:11

Below is generated by plot.py at 2018-01-26 22:46:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.17 Mbit/s

95th percentile per-packet one-way delay: 161.738 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 348.18 Mbit/s

95th percentile per-packet one-way delay: 161.642 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 153.371 ms

Loss rate: 0.47%

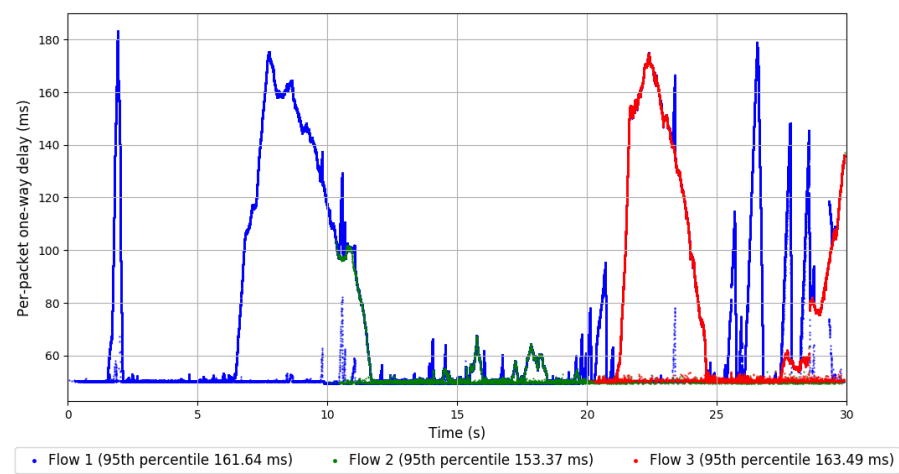
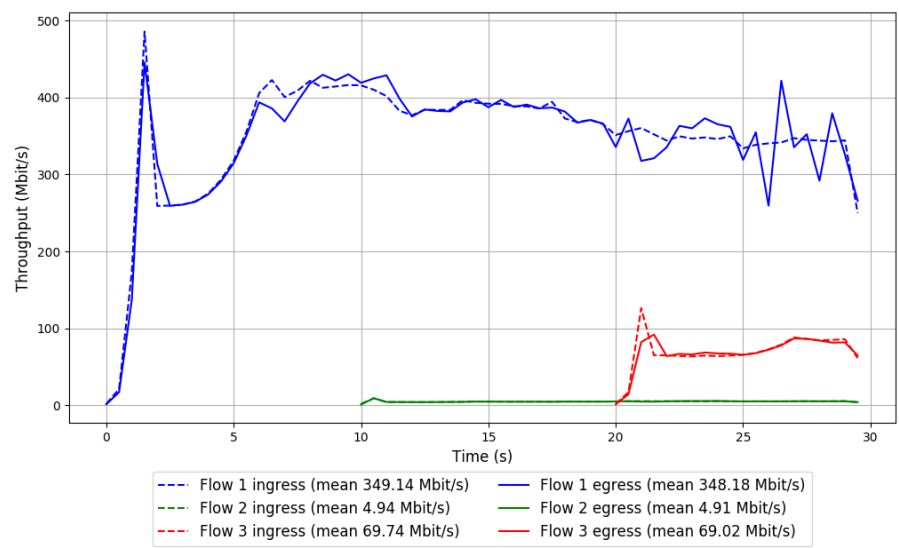
-- Flow 3:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 163.487 ms

Loss rate: 1.02%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 20:30:20

End at: 2018-01-26 20:30:50

Below is generated by plot.py at 2018-01-26 22:49:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.65 Mbit/s

95th percentile per-packet one-way delay: 142.585 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 289.02 Mbit/s

95th percentile per-packet one-way delay: 143.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 142.681 ms

Loss rate: 0.01%

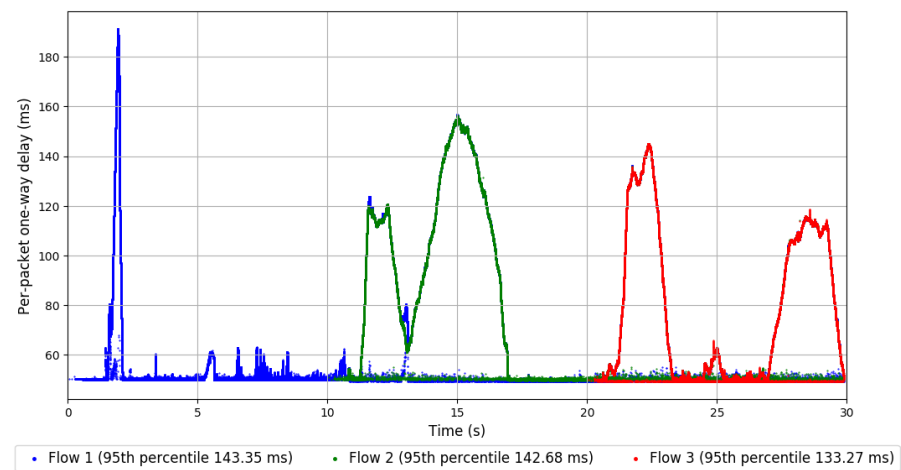
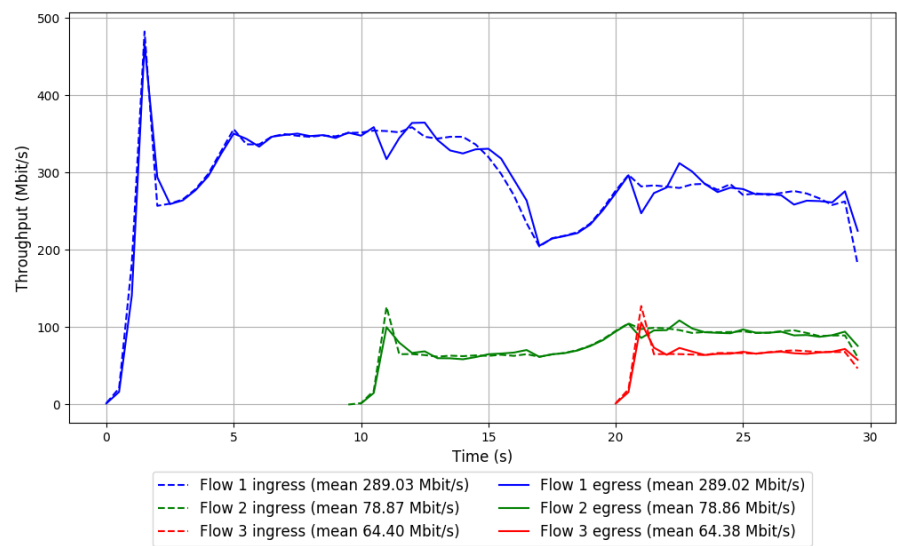
-- Flow 3:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 133.272 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link

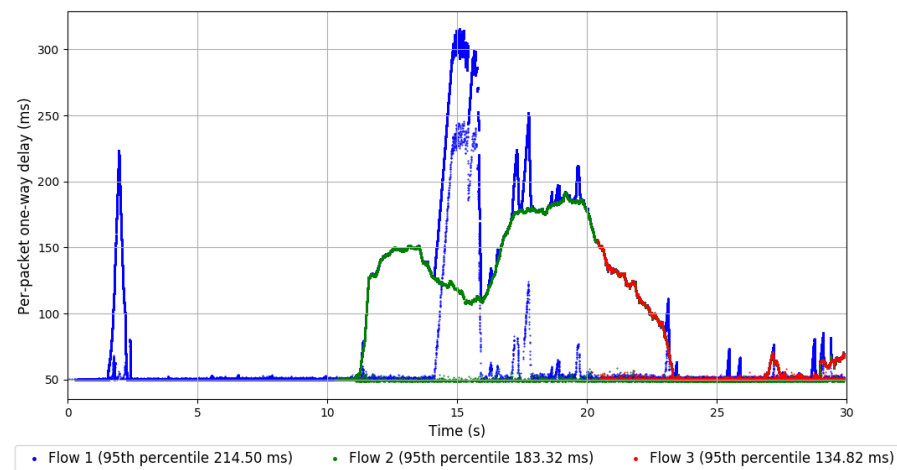
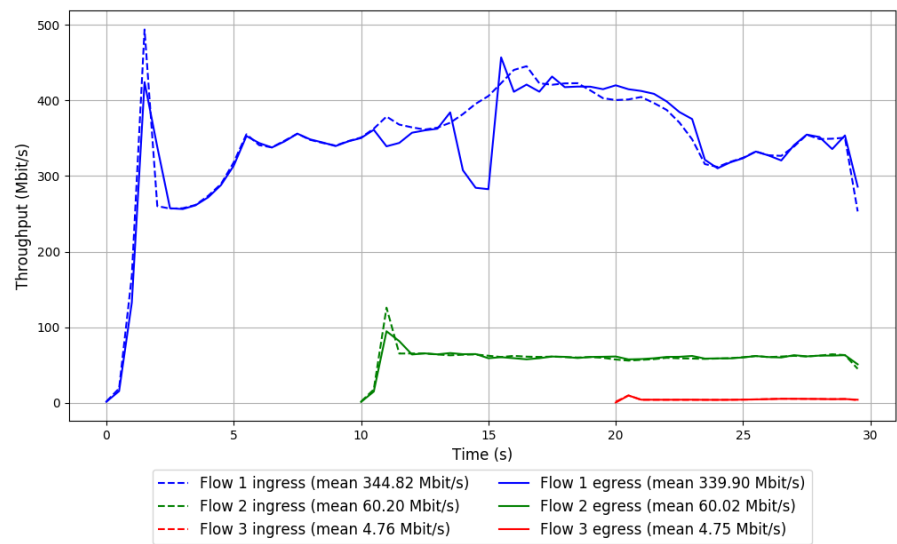


```
Run 10: Statistics of PCC

Start at: 2018-01-26 20:44:10
End at: 2018-01-26 20:44:40

# Below is generated by plot.py at 2018-01-26 22:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.37 Mbit/s
95th percentile per-packet one-way delay: 208.468 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 339.90 Mbit/s
95th percentile per-packet one-way delay: 214.496 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 183.325 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 134.818 ms
Loss rate: 0.18%
```

Run 10: Report of PCC — Data Link

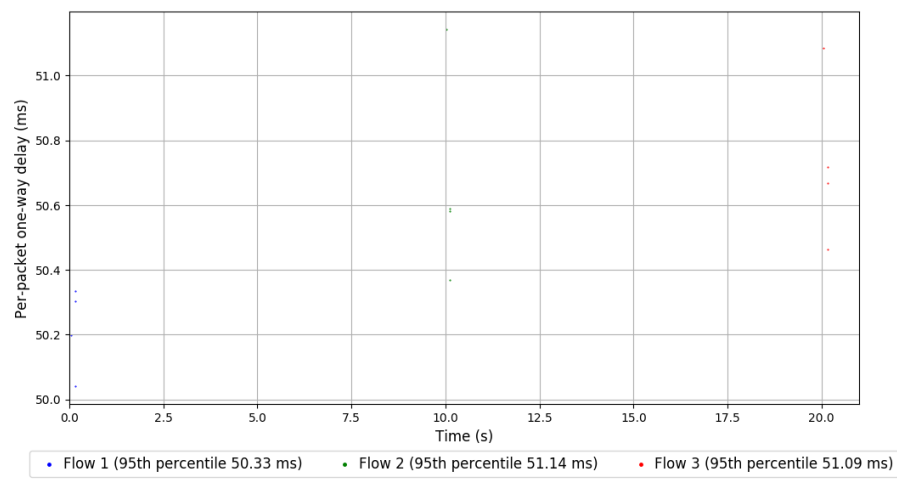
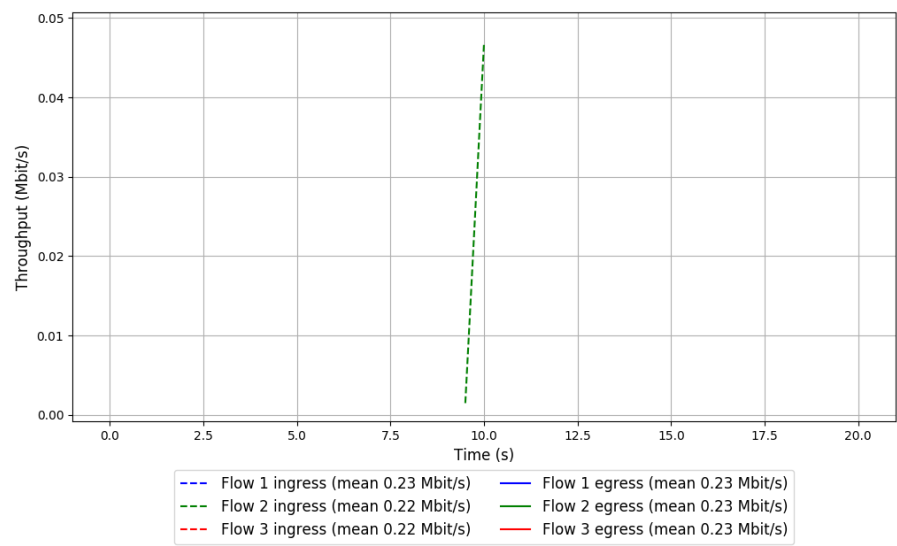


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 18:45:15

End at: 2018-01-26 18:45:45

Run 1: Report of QUIC Cubic — Data Link

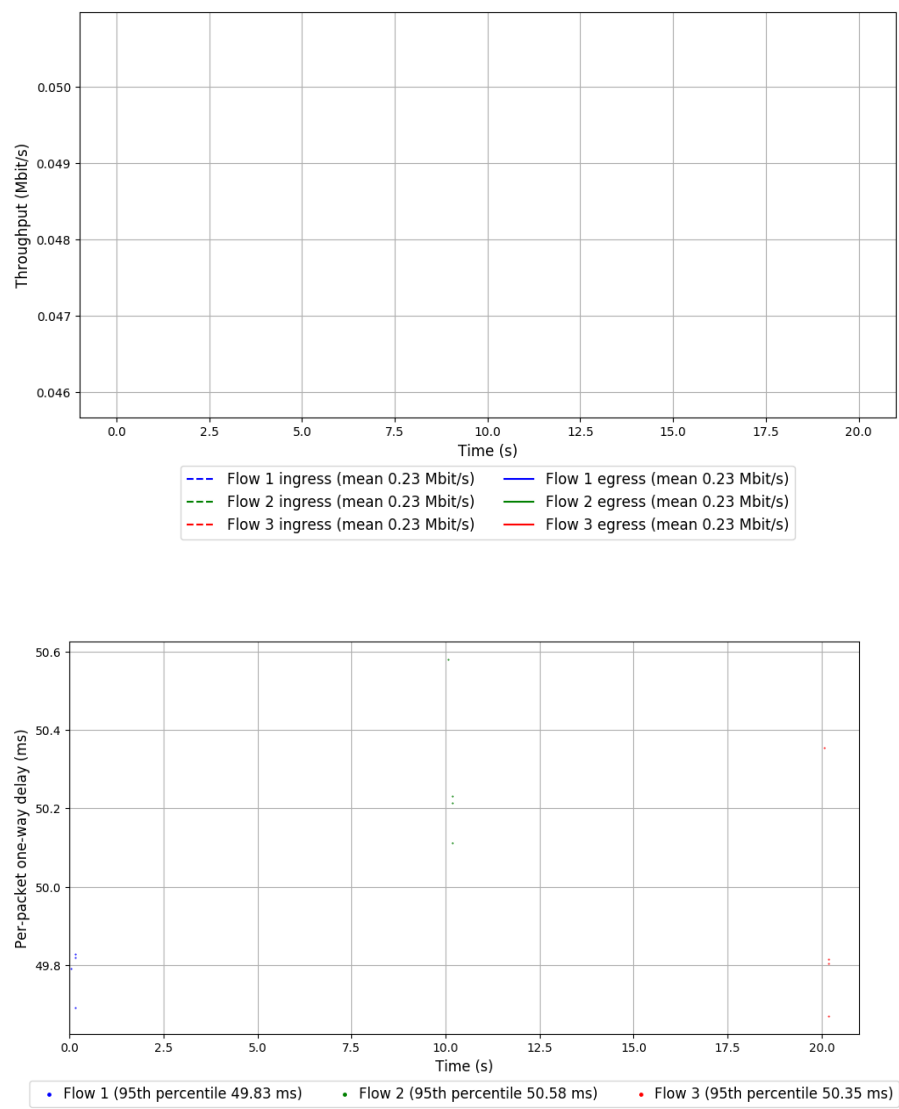


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 18:59:02

End at: 2018-01-26 18:59:32

Run 2: Report of QUIC Cubic — Data Link

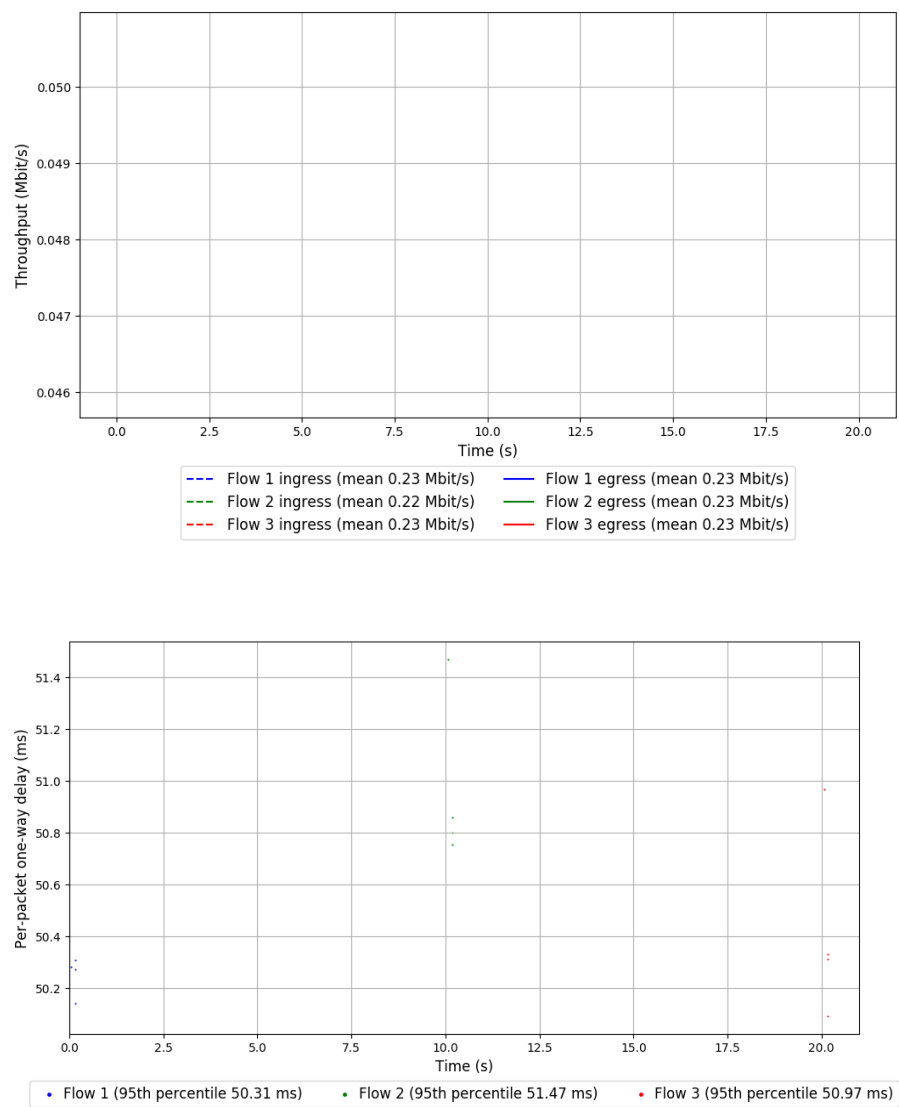


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 19:12:43

End at: 2018-01-26 19:13:13

Run 3: Report of QUIC Cubic — Data Link

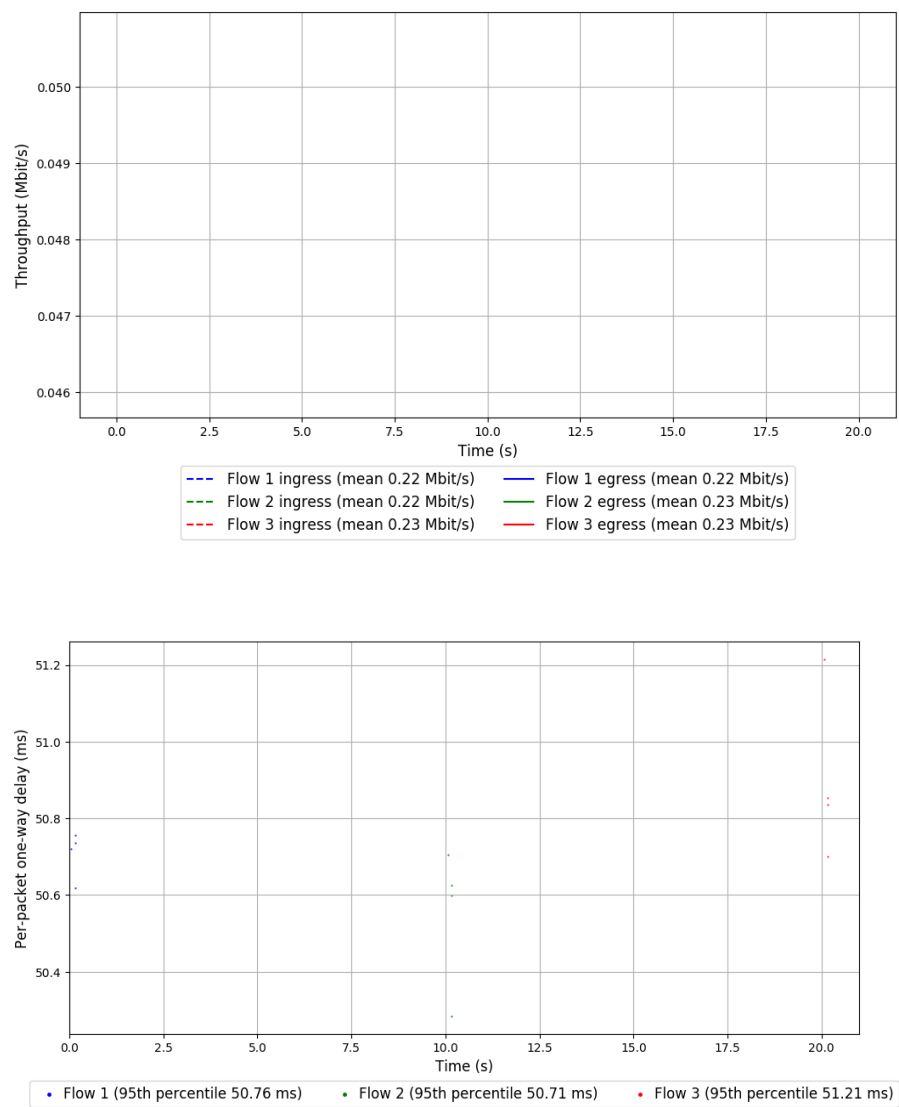


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 19:26:31

End at: 2018-01-26 19:27:01

Run 4: Report of QUIC Cubic — Data Link

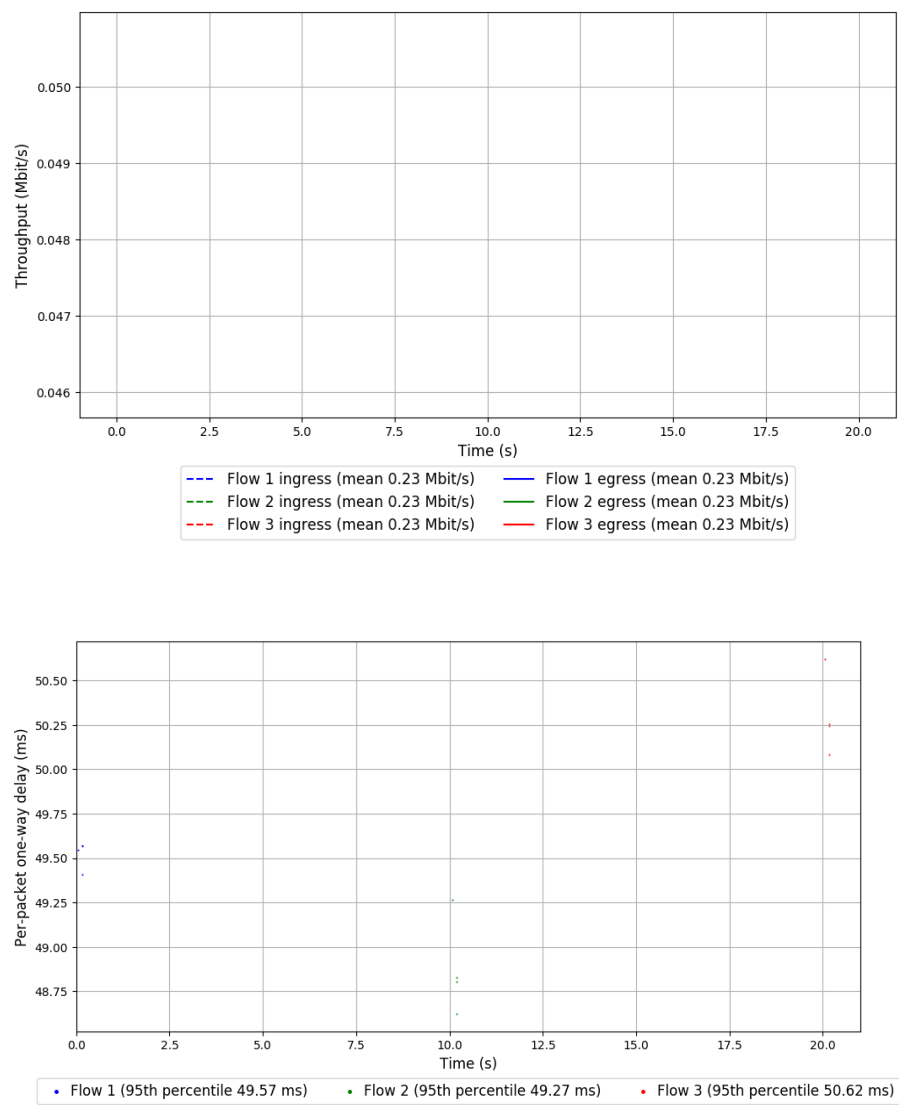


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 19:40:34

End at: 2018-01-26 19:41:04

Run 5: Report of QUIC Cubic — Data Link

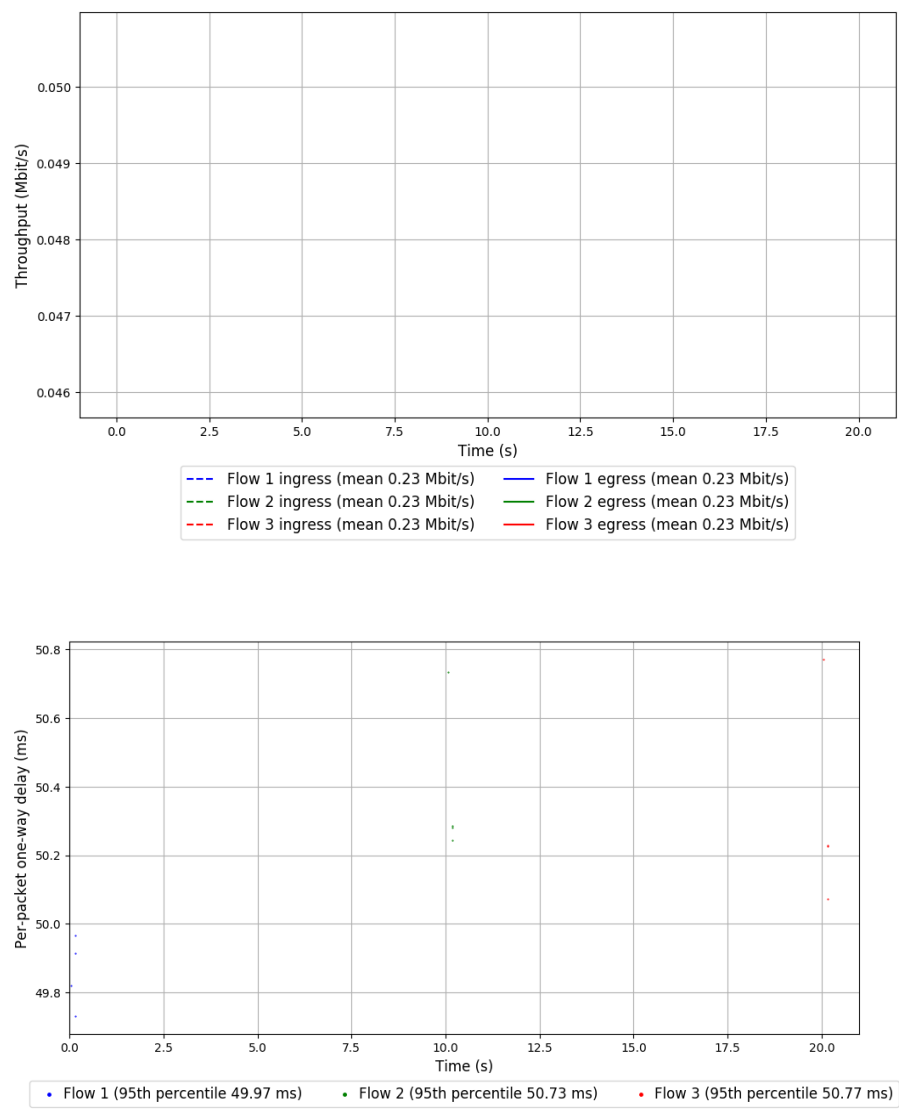


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 19:54:26

End at: 2018-01-26 19:54:56

Run 6: Report of QUIC Cubic — Data Link

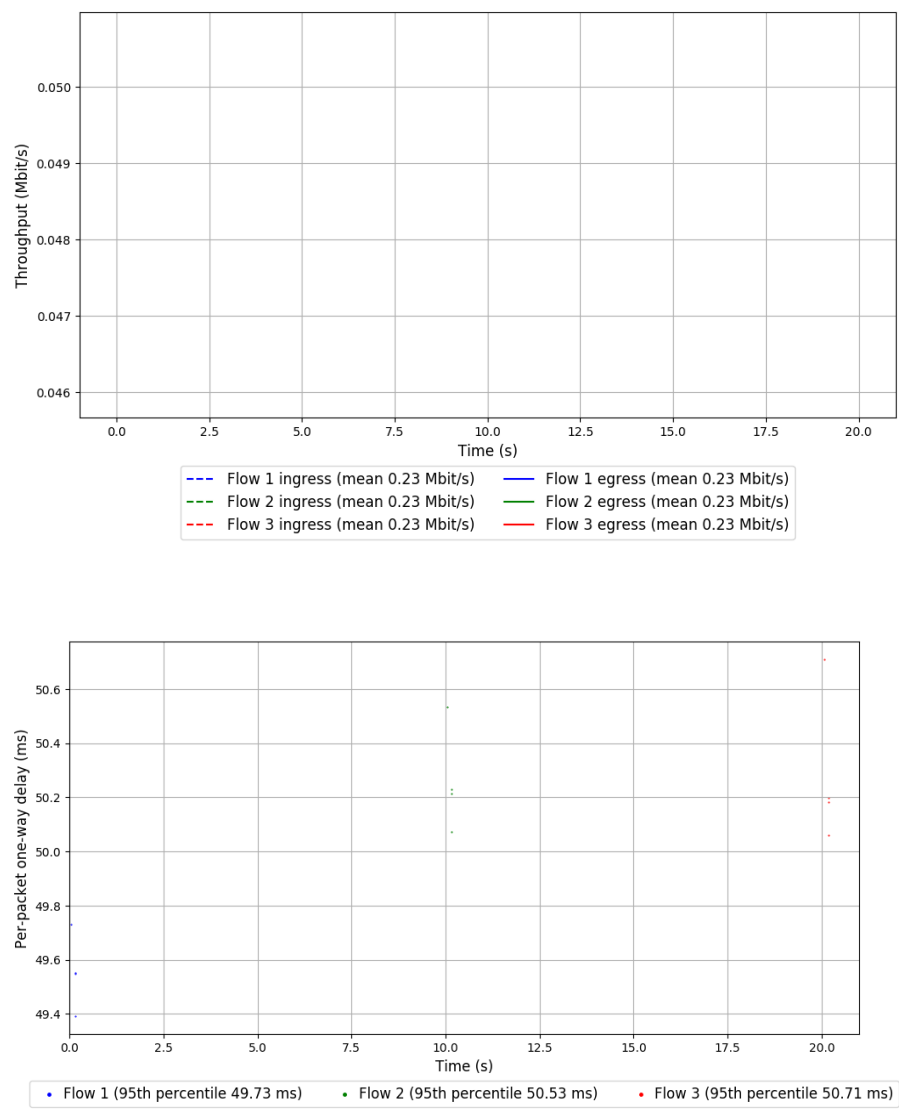


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 20:08:25

End at: 2018-01-26 20:08:55

Run 7: Report of QUIC Cubic — Data Link

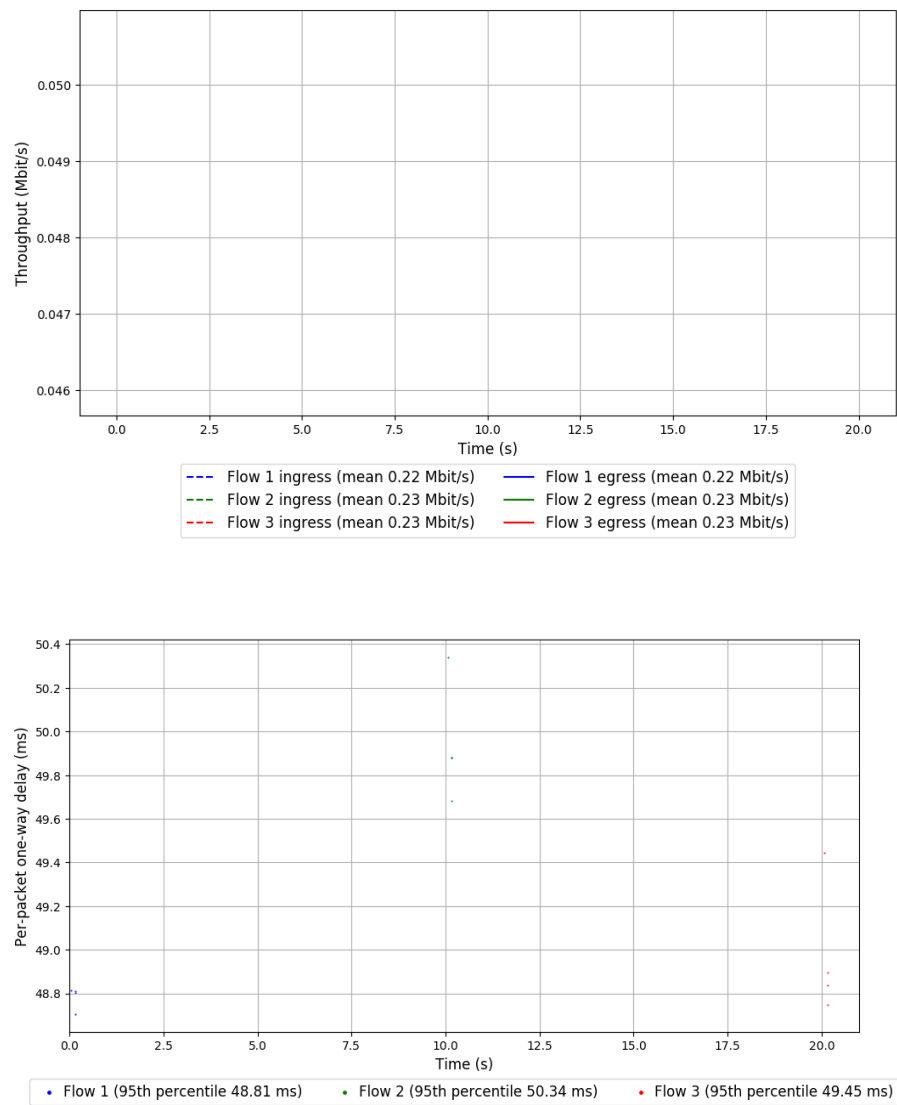


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 20:22:08

End at: 2018-01-26 20:22:38

Run 8: Report of QUIC Cubic — Data Link

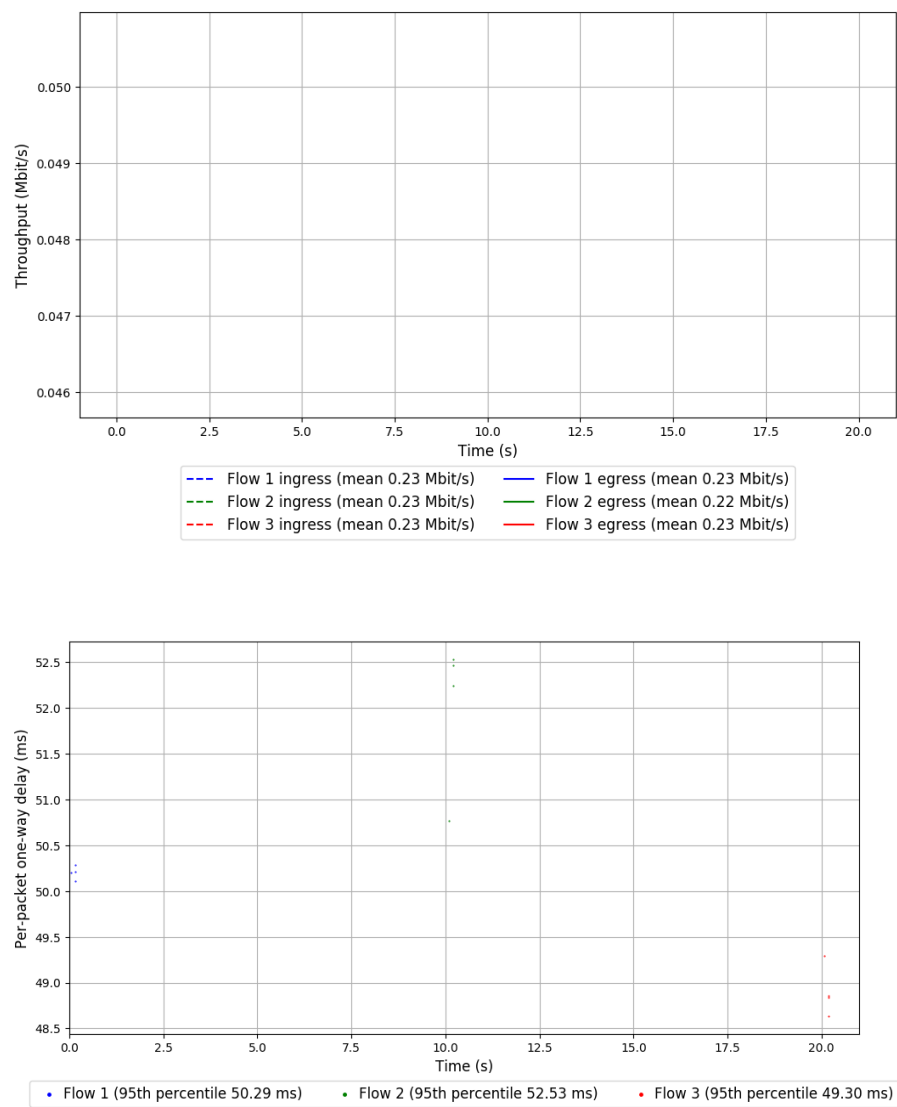


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 20:35:56

End at: 2018-01-26 20:36:26

Run 9: Report of QUIC Cubic — Data Link

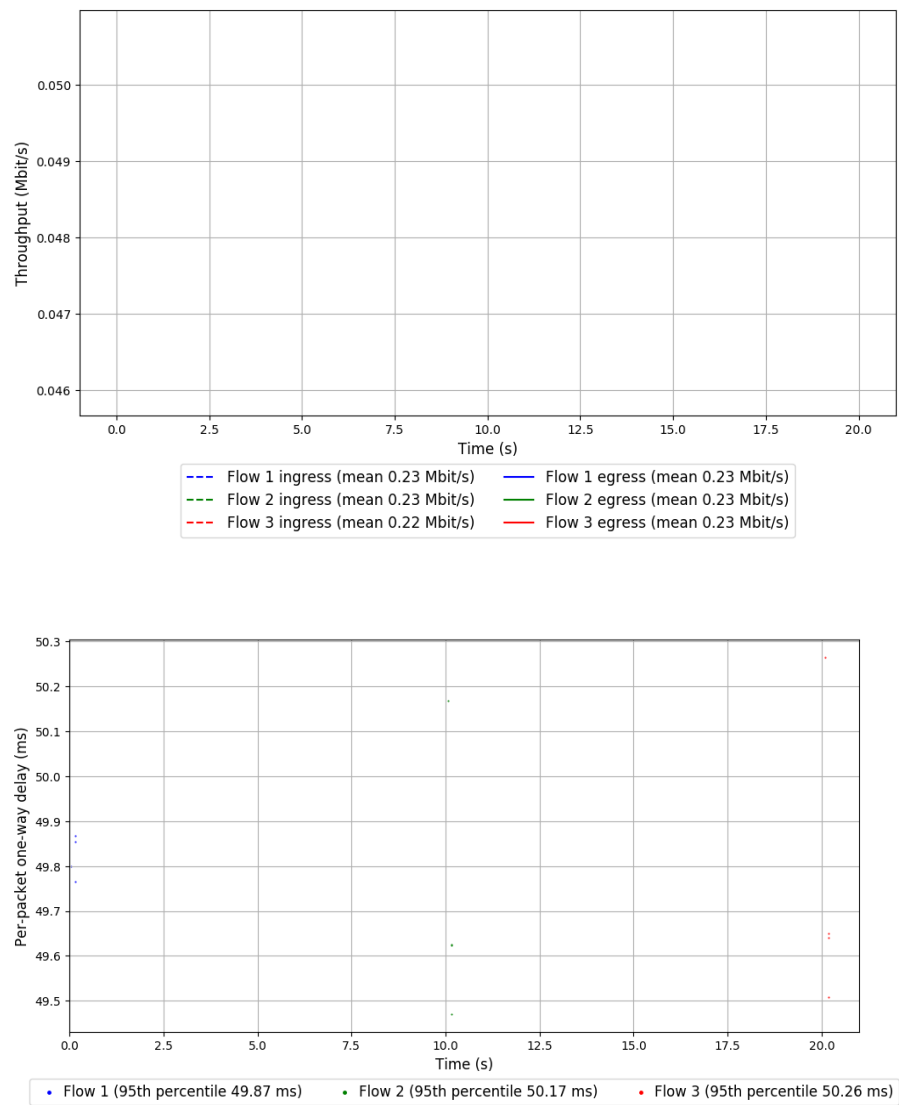


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 20:49:47

End at: 2018-01-26 20:50:17

Run 10: Report of QUIC Cubic — Data Link

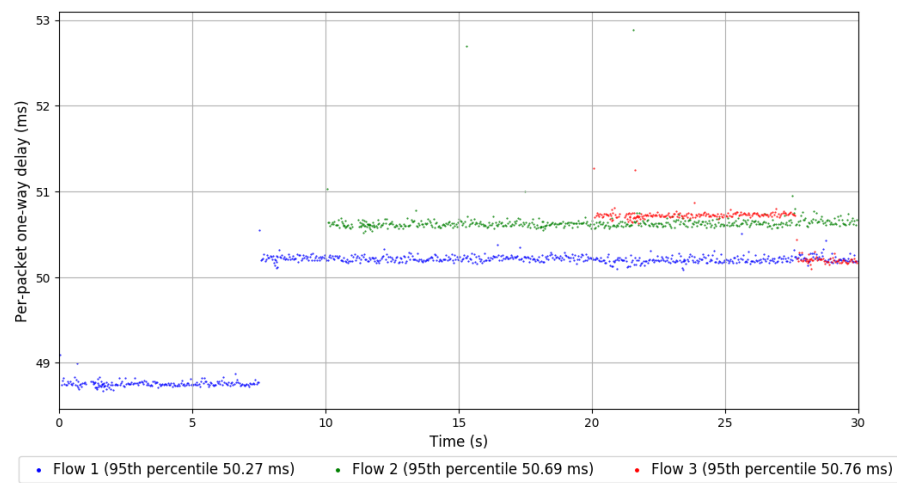
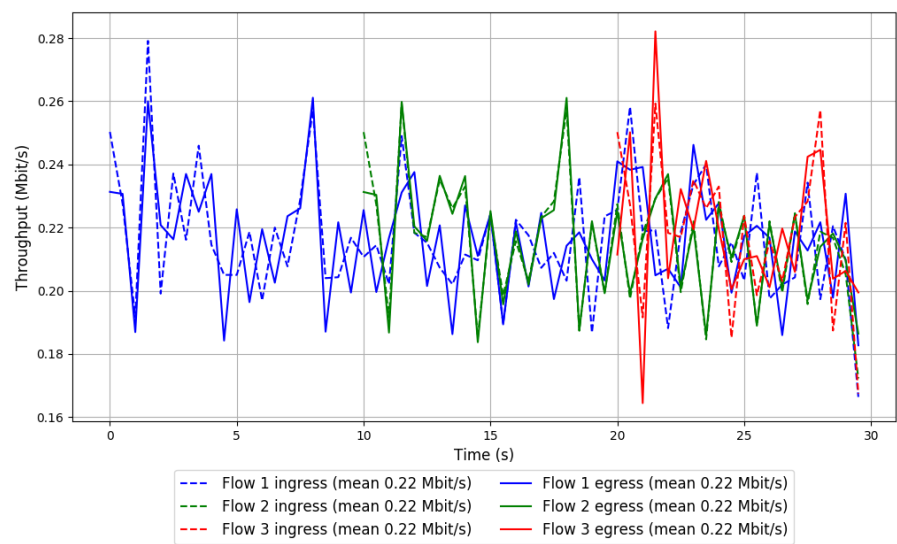


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 18:46:33
End at: 2018-01-26 18:47:03

# Below is generated by plot.py at 2018-01-26 22:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.266 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.758 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

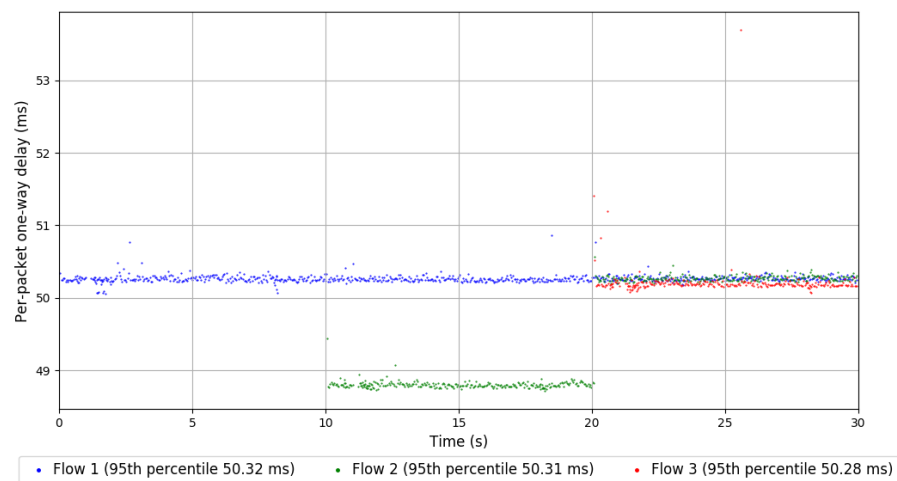
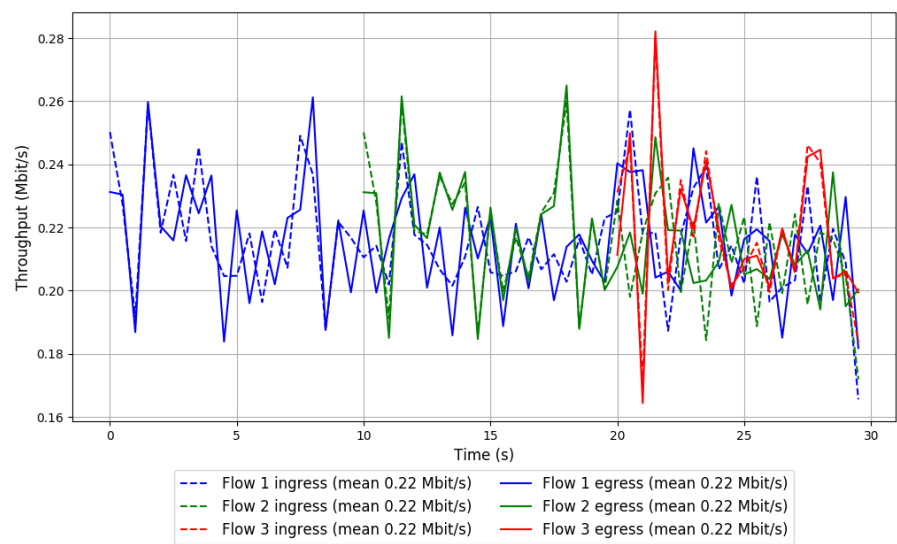


```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 19:00:21
End at: 2018-01-26 19:00:51

# Below is generated by plot.py at 2018-01-26 22:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.309 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.276 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-26 19:14:02

End at: 2018-01-26 19:14:32

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.288 ms

Loss rate: 0.00%

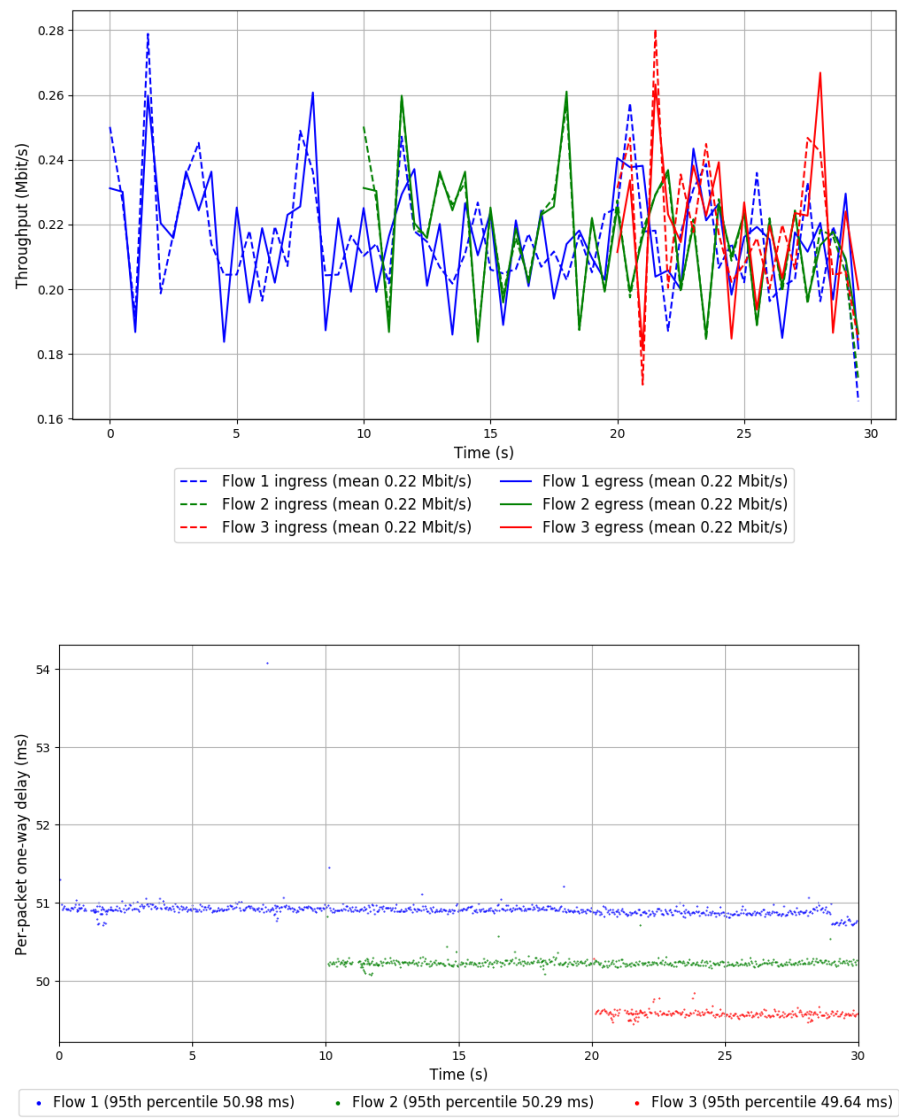
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.638 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

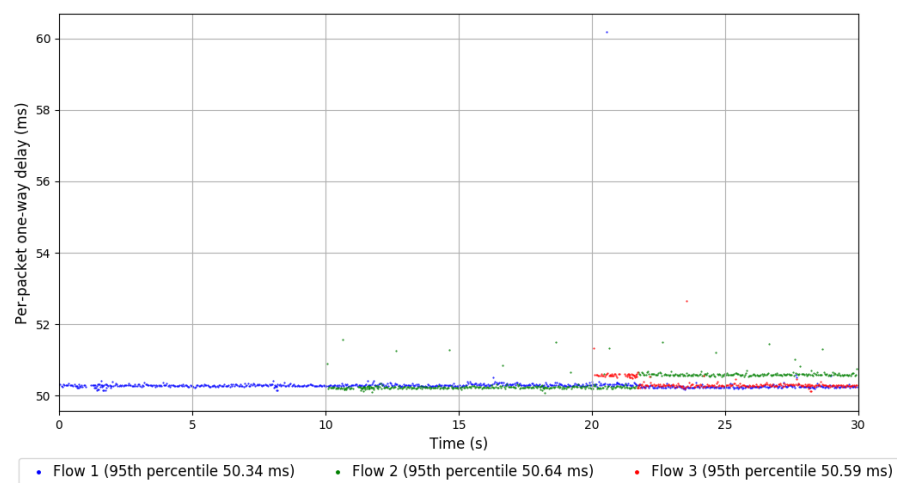
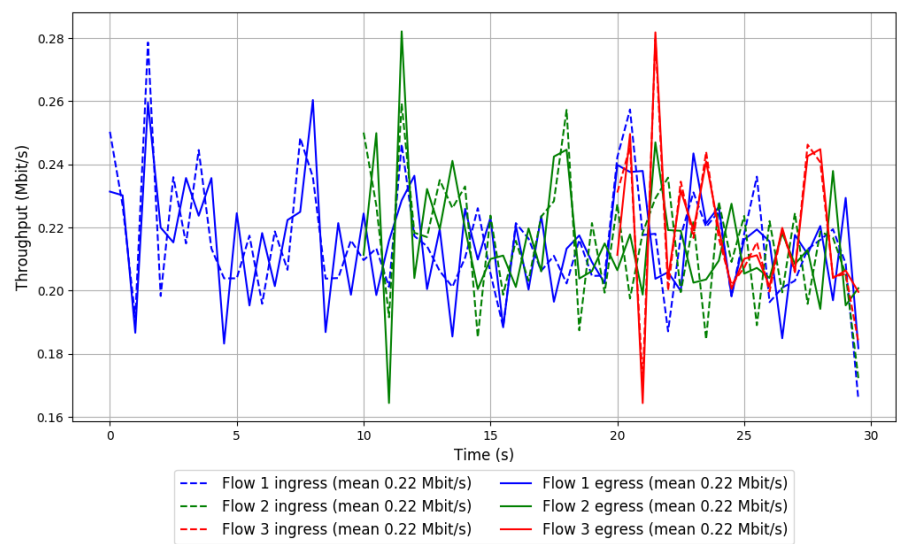


```
Run 4: Statistics of SCReAM

Start at: 2018-01-26 19:27:49
End at: 2018-01-26 19:28:19

# Below is generated by plot.py at 2018-01-26 22:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.342 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.639 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.590 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

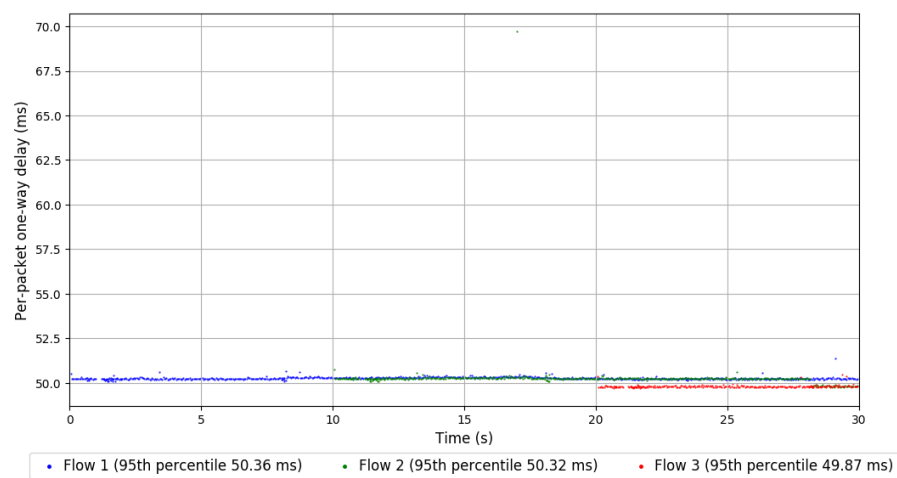
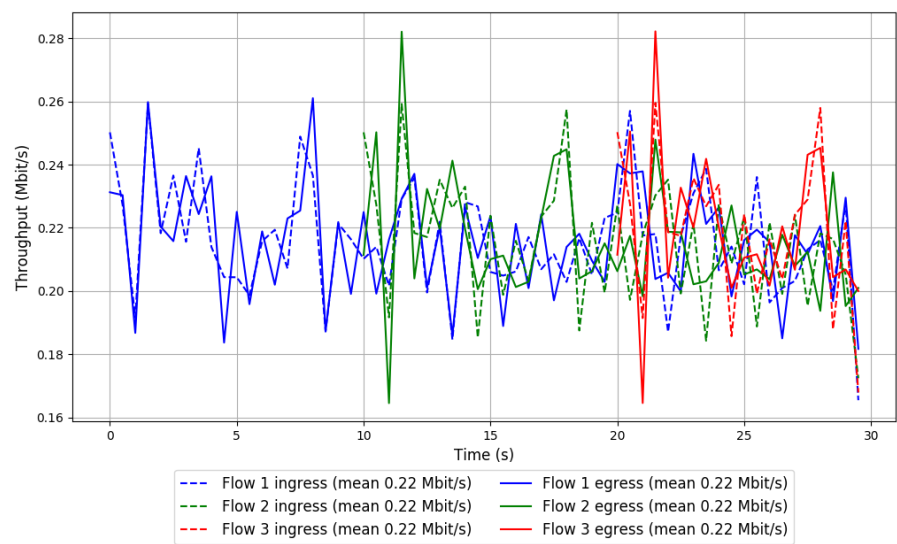


```
Run 5: Statistics of SCReAM

Start at: 2018-01-26 19:41:53
End at: 2018-01-26 19:42:23

# Below is generated by plot.py at 2018-01-26 22:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.356 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.866 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-26 19:55:45

End at: 2018-01-26 19:56:15

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.366 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.030 ms

Loss rate: 0.00%

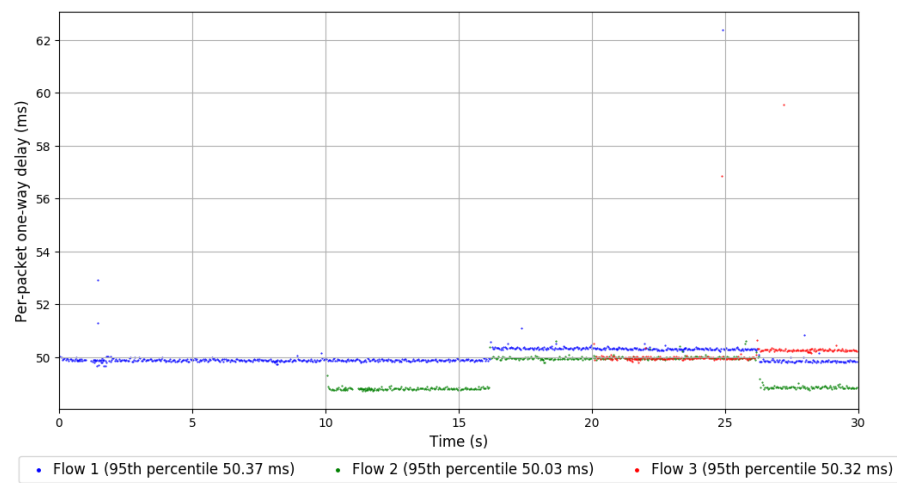
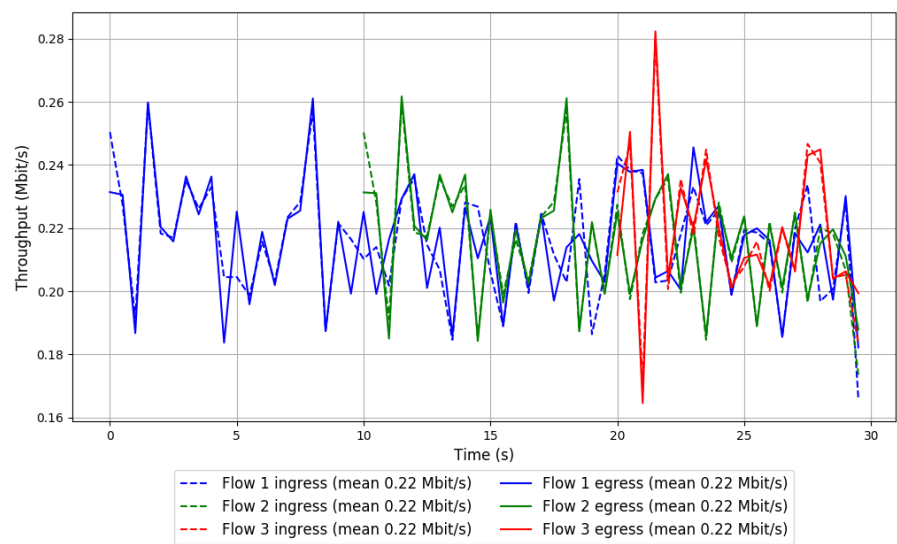
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.320 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

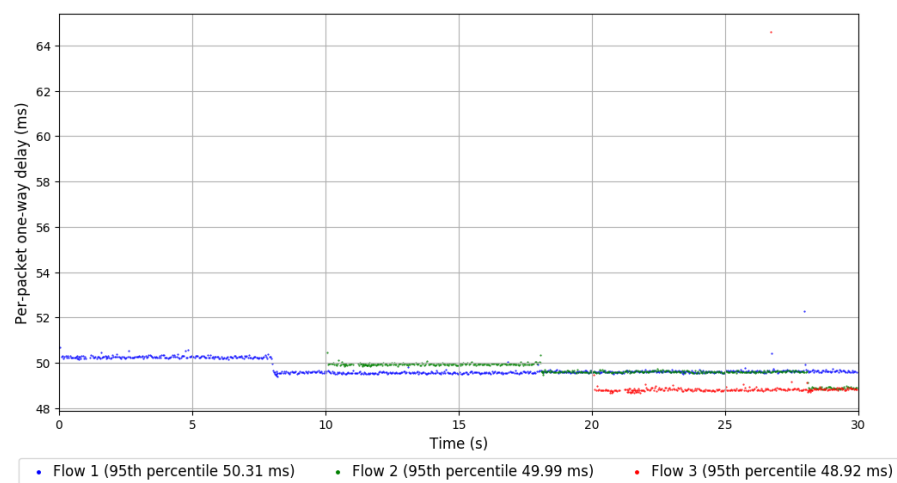
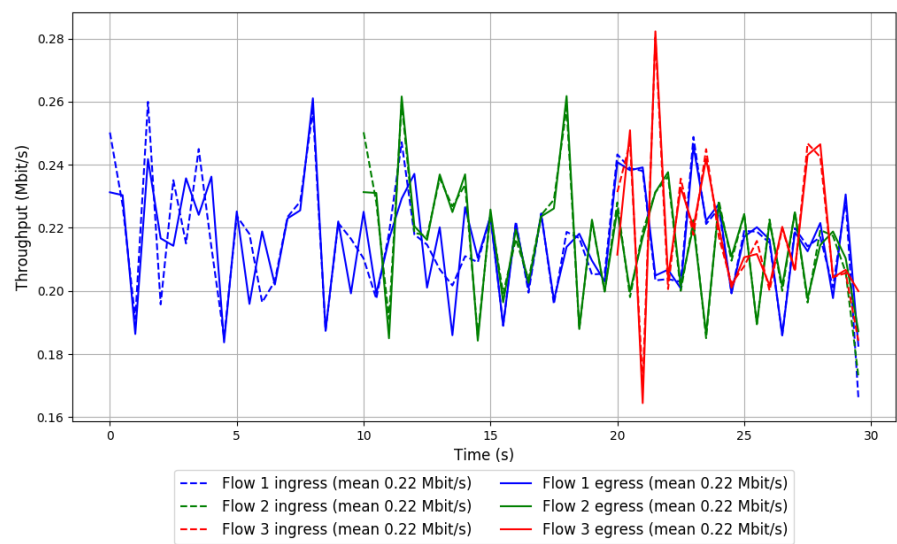


```
Run 7: Statistics of SCReAM

Start at: 2018-01-26 20:09:43
End at: 2018-01-26 20:10:13

# Below is generated by plot.py at 2018-01-26 22:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.992 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.924 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-26 20:23:27

End at: 2018-01-26 20:23:57

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.292 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.352 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.901 ms

Loss rate: 0.00%

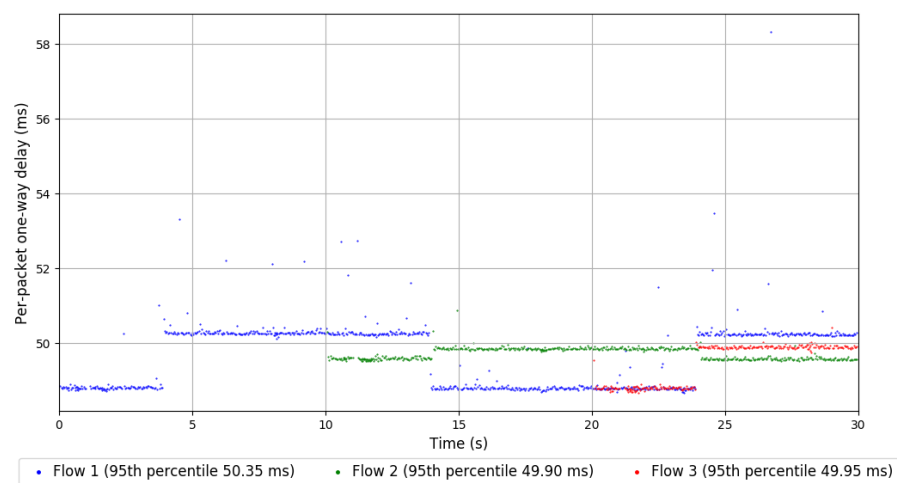
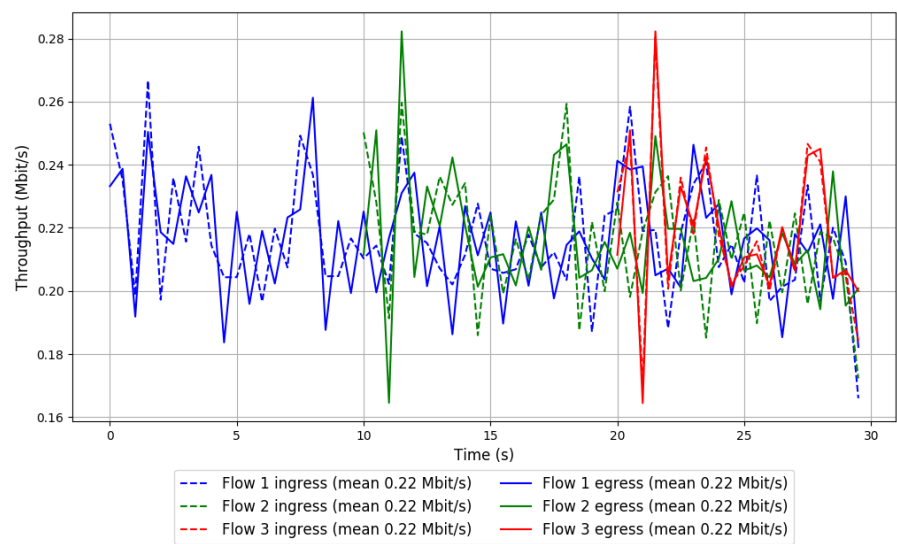
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.947 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-26 20:37:14

End at: 2018-01-26 20:37:44

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.900 ms

Loss rate: 0.00%

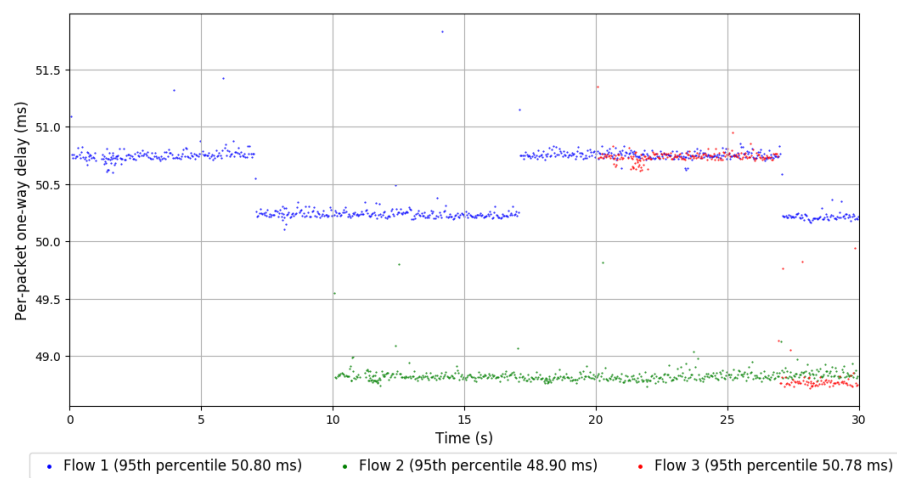
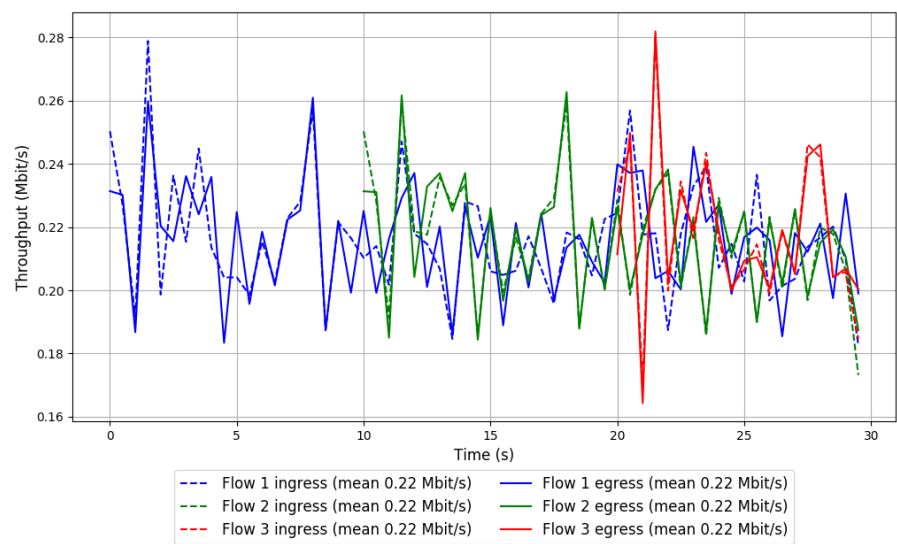
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-01-26 20:51:05

End at: 2018-01-26 20:51:35

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.938 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.712 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.983 ms

Loss rate: 0.00%

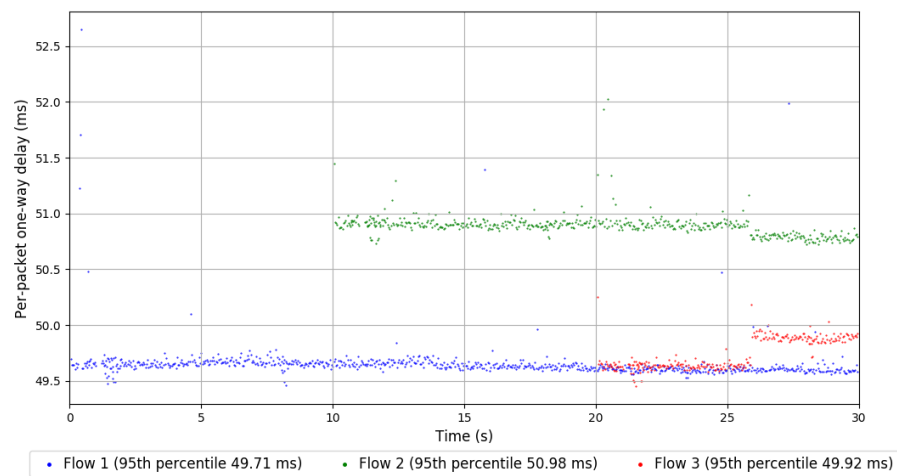
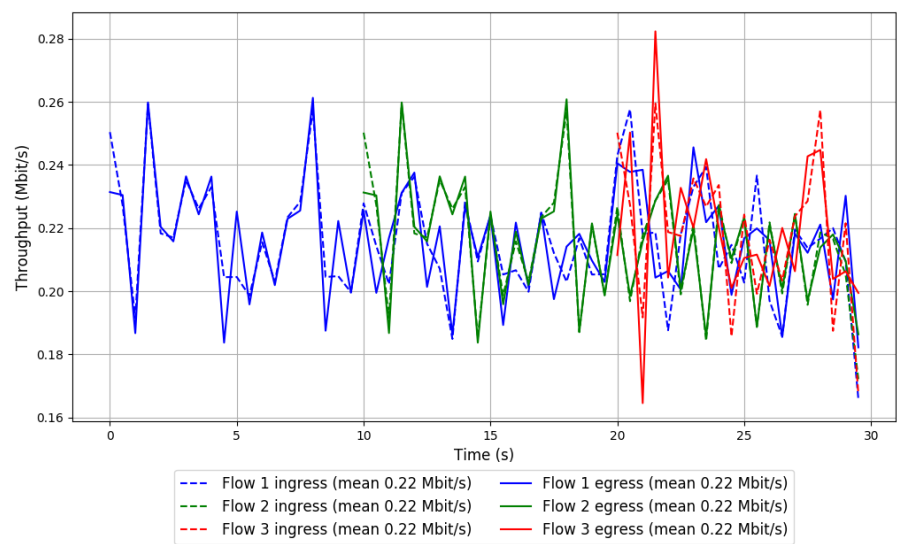
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.923 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

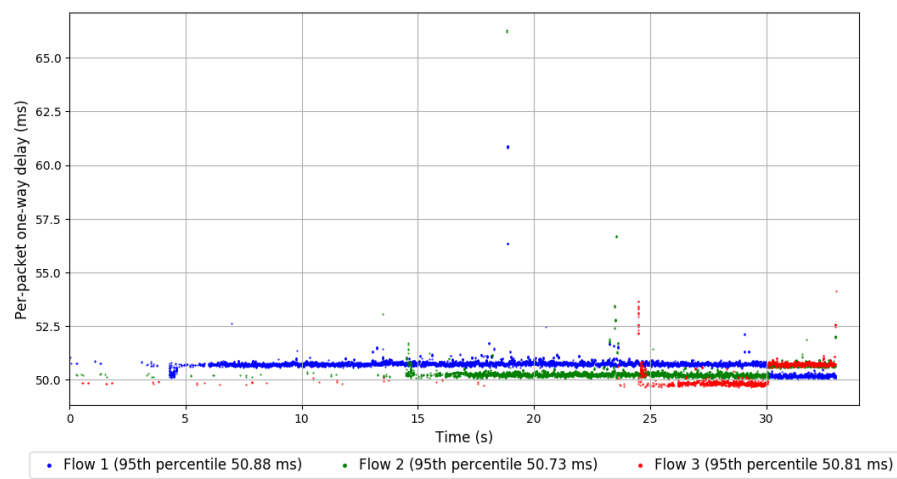
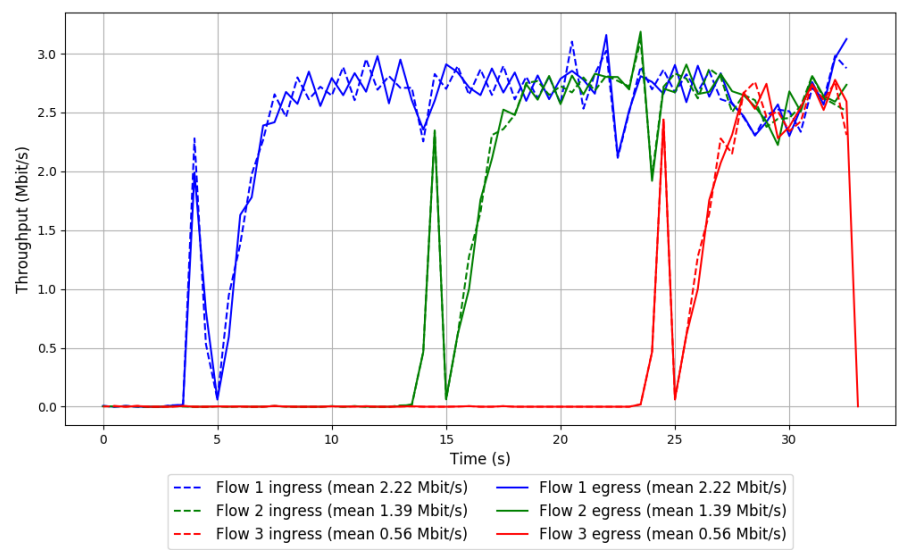


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 18:45:54
End at: 2018-01-26 18:46:24

# Below is generated by plot.py at 2018-01-26 22:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 50.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 50.885 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 50.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 50.812 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 18:59:42

End at: 2018-01-26 19:00:12

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

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

Loss rate: 0.00%

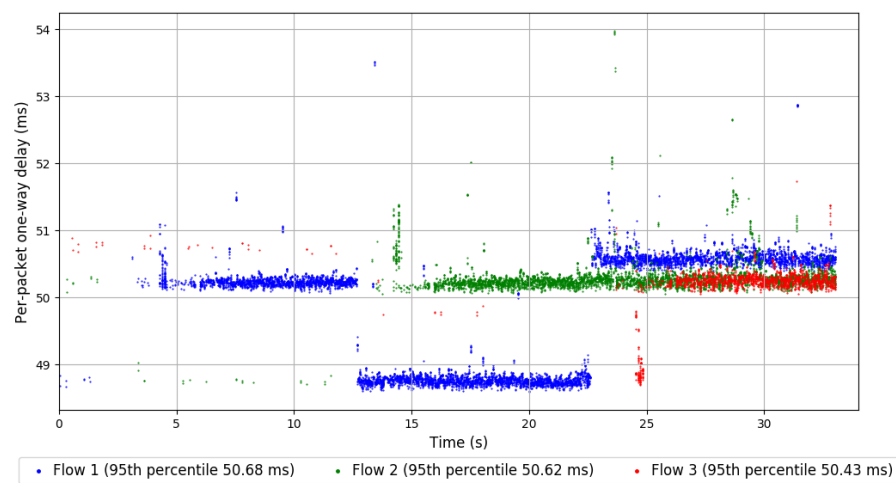
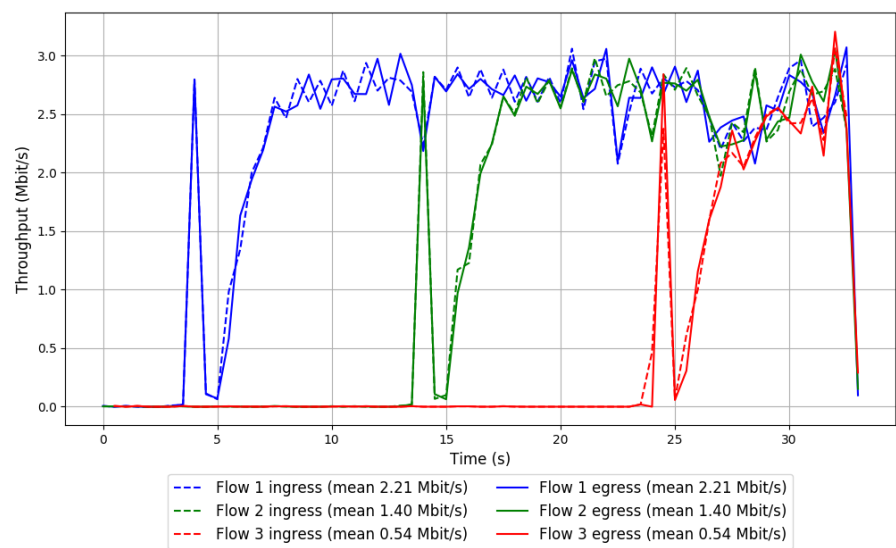
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.433 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 19:13:22

End at: 2018-01-26 19:13:52

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.308 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.00%

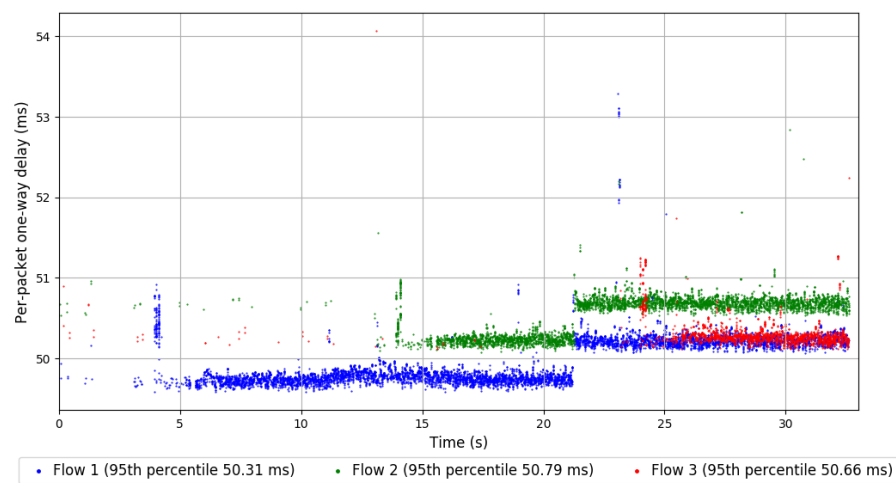
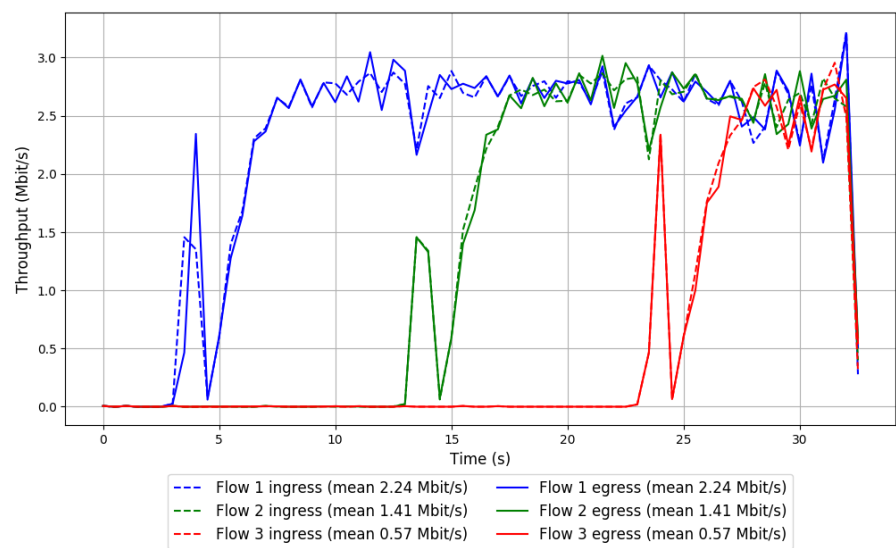
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.658 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 19:27:10

End at: 2018-01-26 19:27:40

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.755 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.334 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.00%

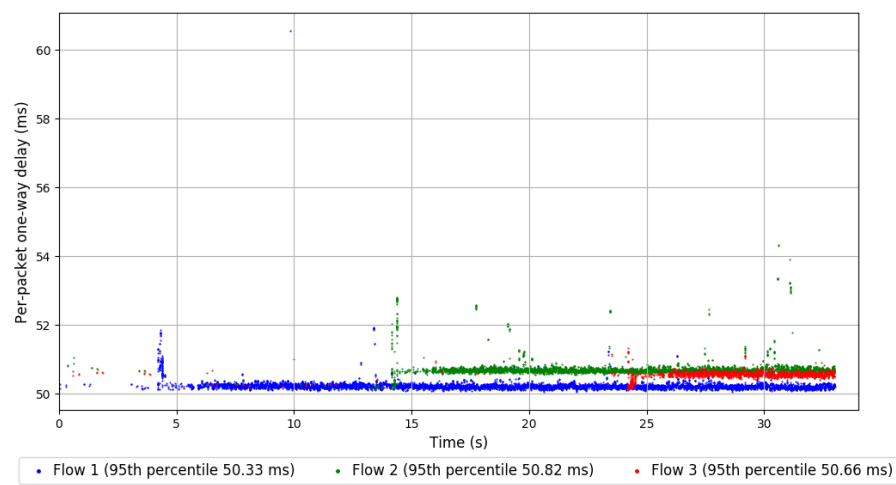
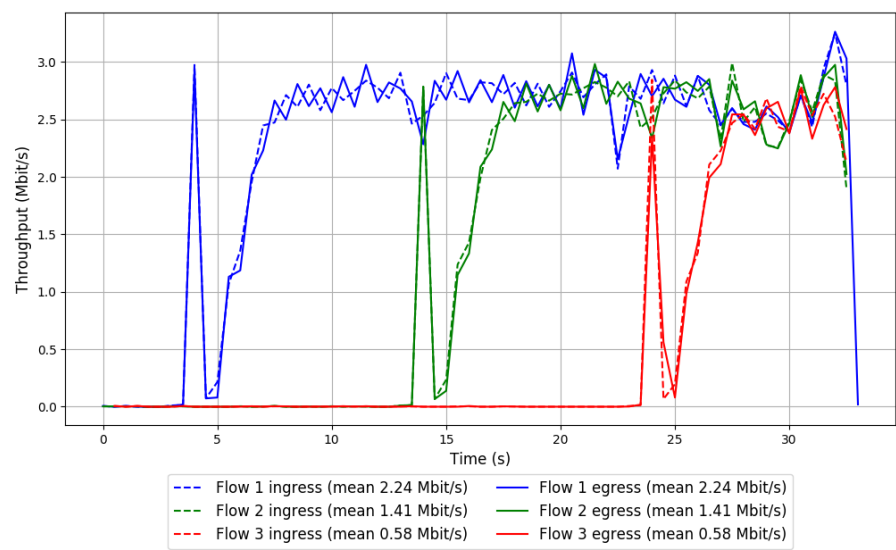
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.657 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 19:41:13

End at: 2018-01-26 19:41:43

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.249 ms

Loss rate: 0.00%

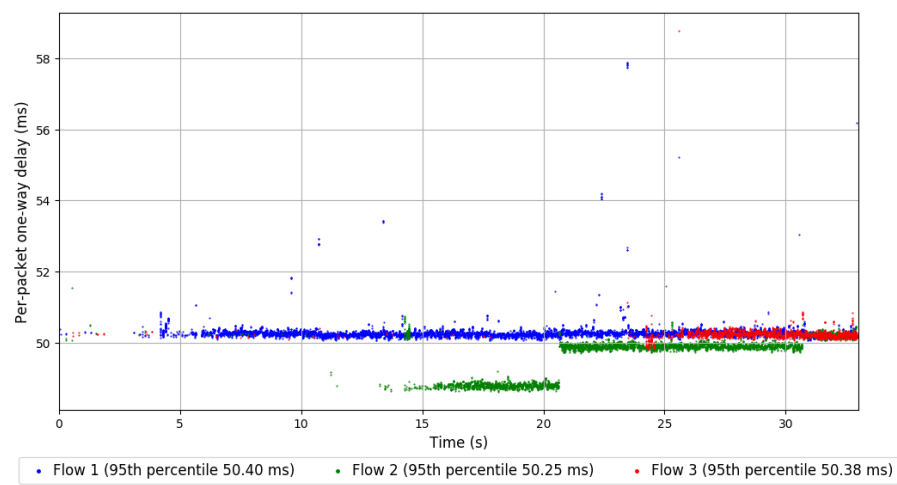
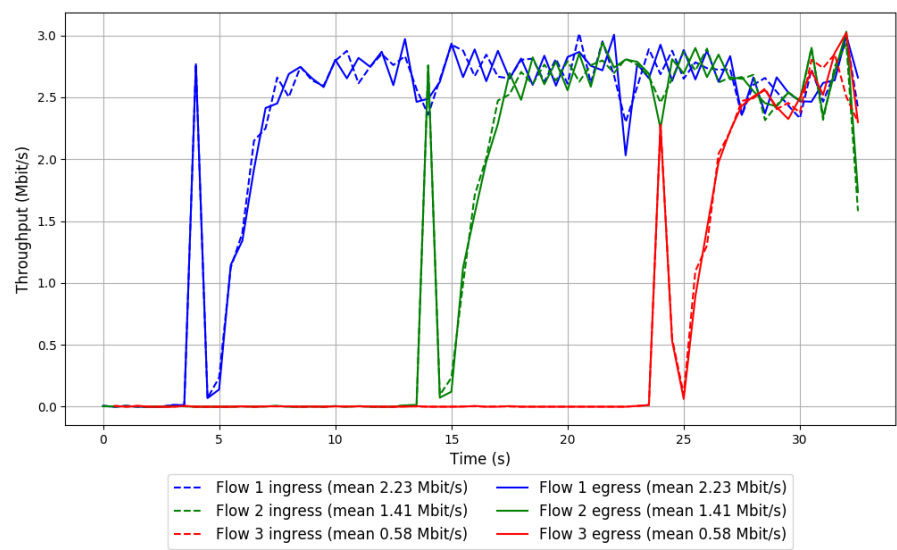
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 19:55:05

End at: 2018-01-26 19:55:35

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.325 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 49.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

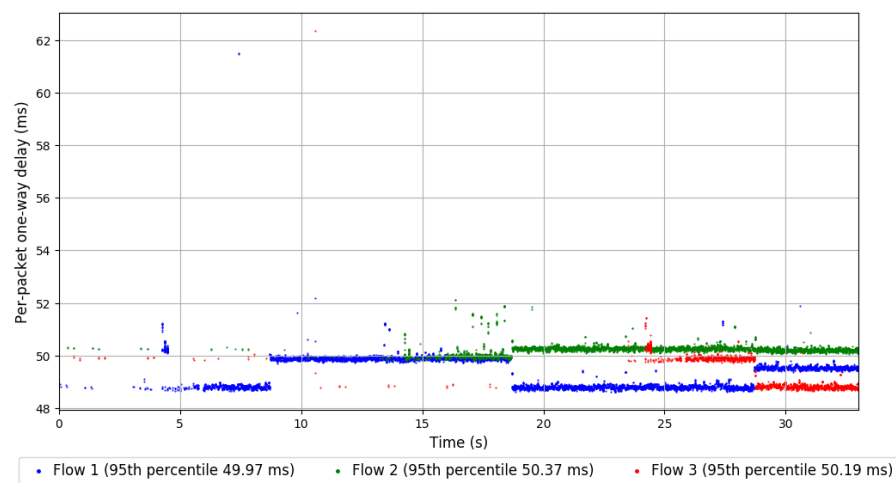
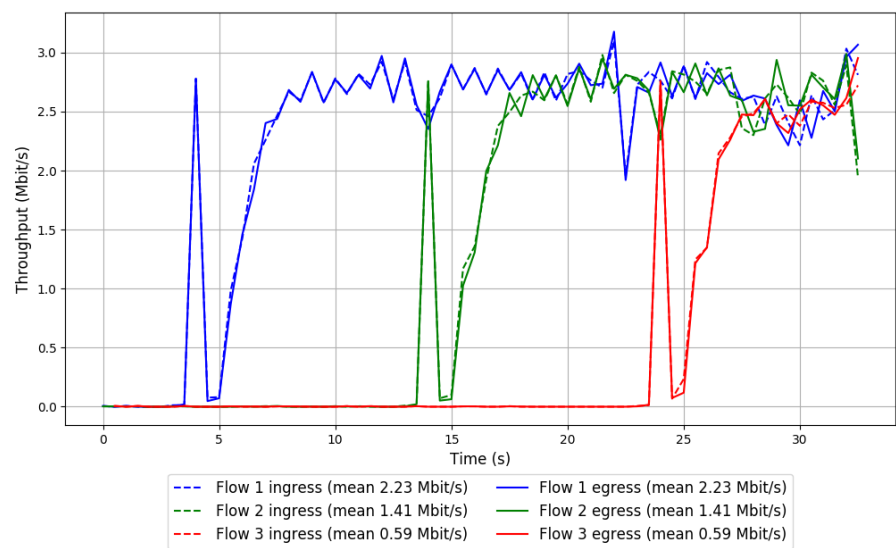
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.190 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 20:09:04

End at: 2018-01-26 20:09:34

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.265 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.328 ms

Loss rate: 0.00%

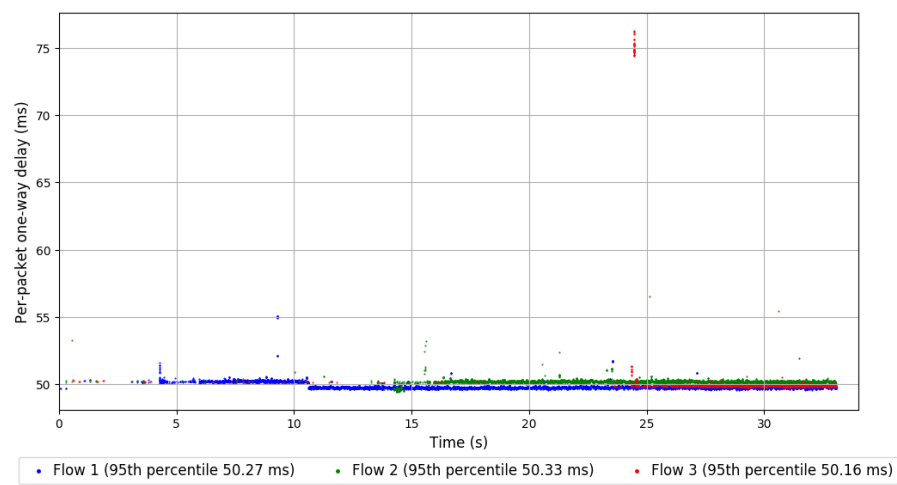
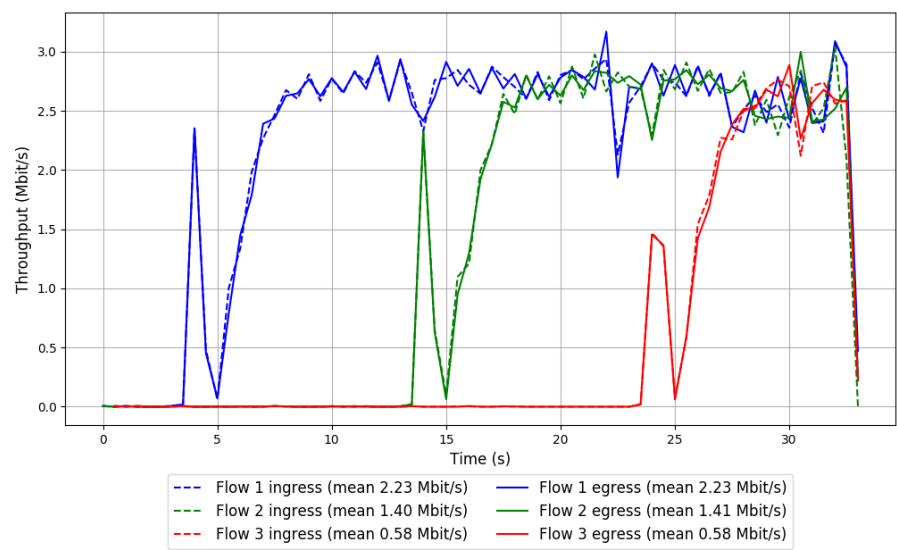
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.162 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 20:22:48

End at: 2018-01-26 20:23:18

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 50.313 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.218 ms

Loss rate: 0.00%

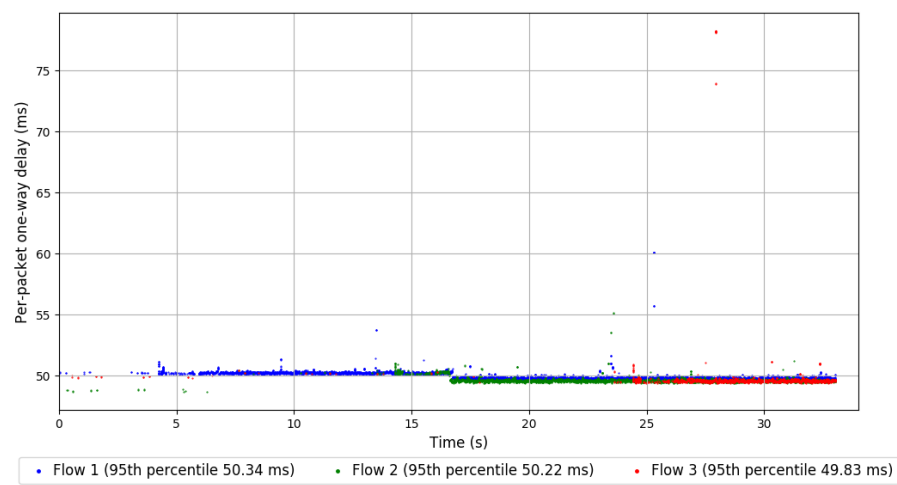
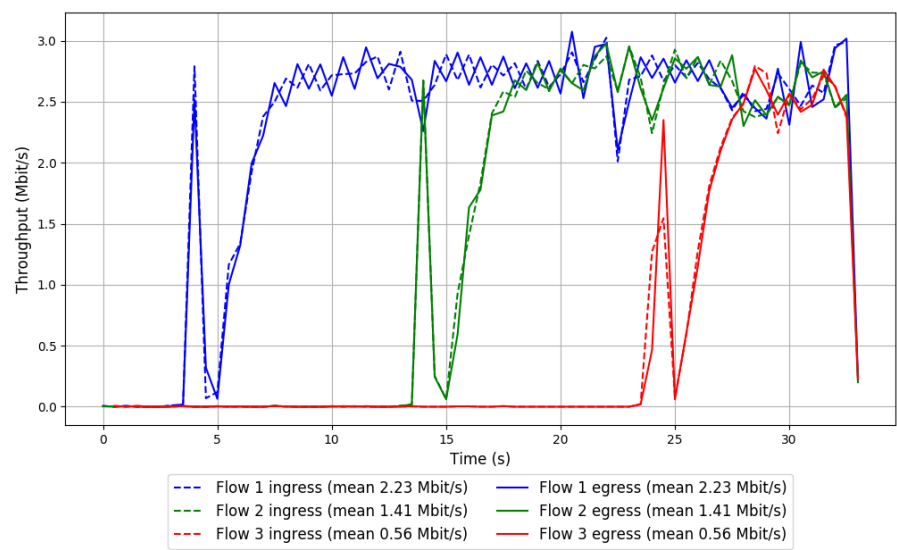
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 49.831 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 20:36:35

End at: 2018-01-26 20:37:05

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 50.325 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 49.974 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.329 ms

Loss rate: 0.00%

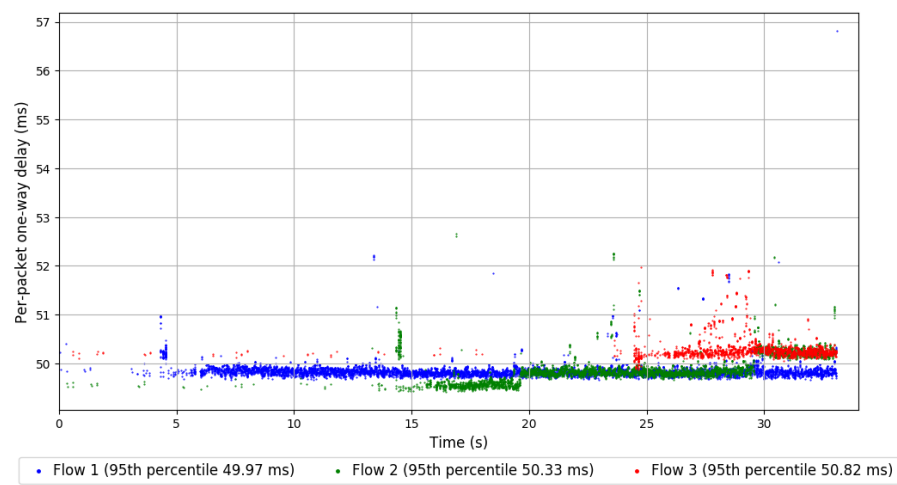
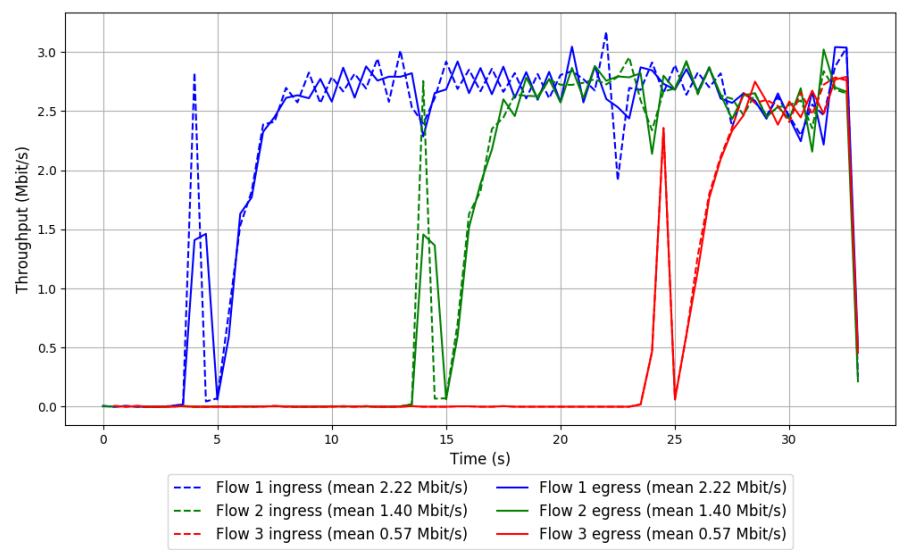
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.822 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 20:50:26

End at: 2018-01-26 20:50:56

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 50.935 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.970 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 49.988 ms

Loss rate: 0.00%

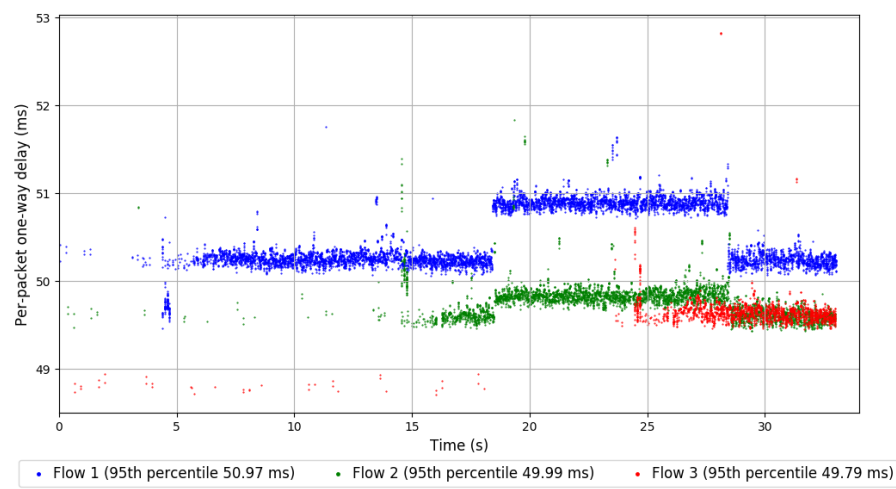
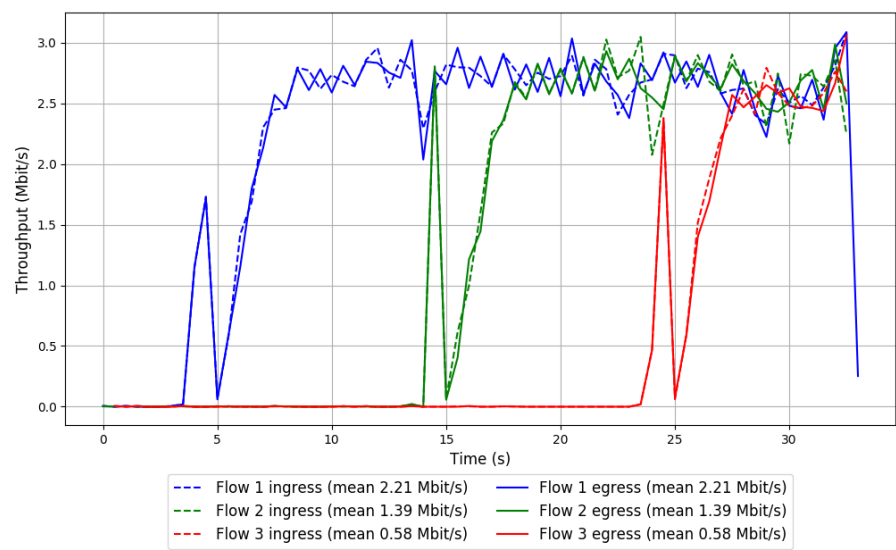
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 49.793 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-26 18:39:05

End at: 2018-01-26 18:39:35

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 51.310 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 7.97 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 51.154 ms

Loss rate: 0.34%

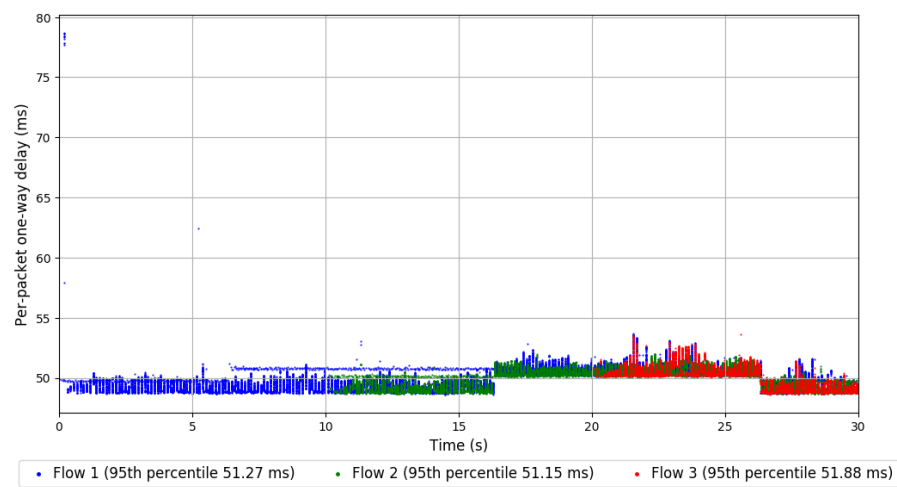
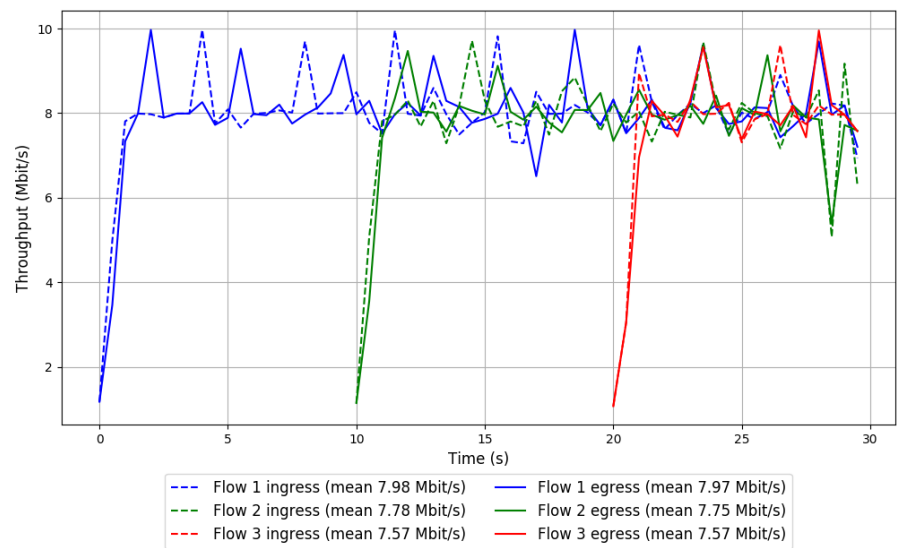
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.875 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 18:52:54

End at: 2018-01-26 18:53:24

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 50.581 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 7.88 Mbit/s

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

Loss rate: 0.20%

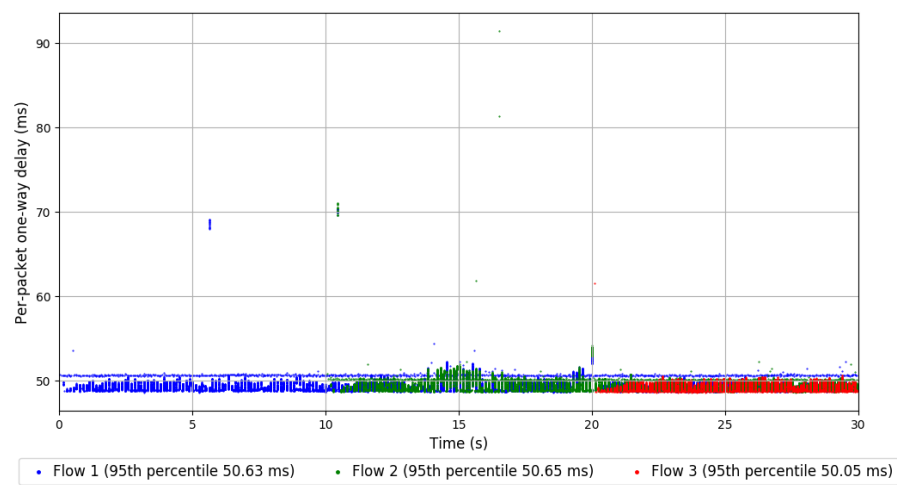
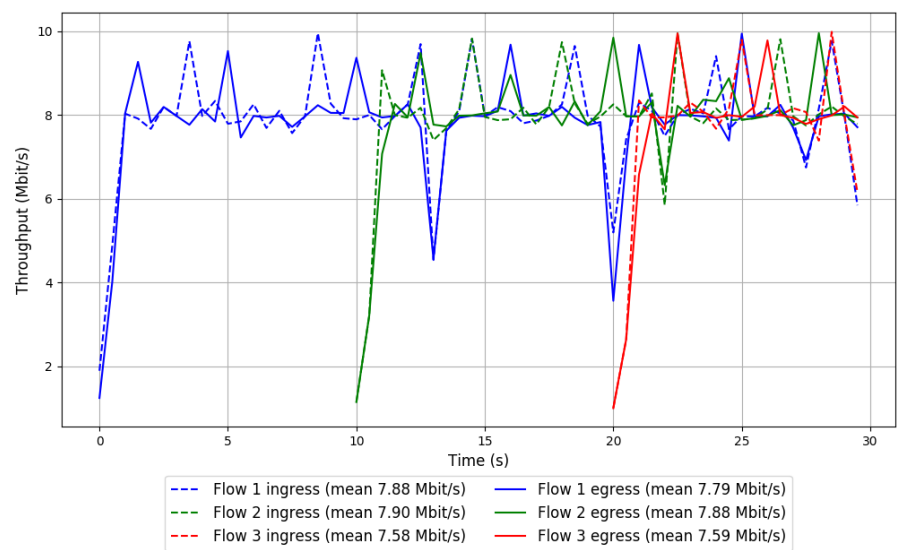
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 50.054 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 19:06:31

End at: 2018-01-26 19:07:01

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.50 Mbit/s

95th percentile per-packet one-way delay: 51.447 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 51.460 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.86 Mbit/s

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

Loss rate: 0.00%

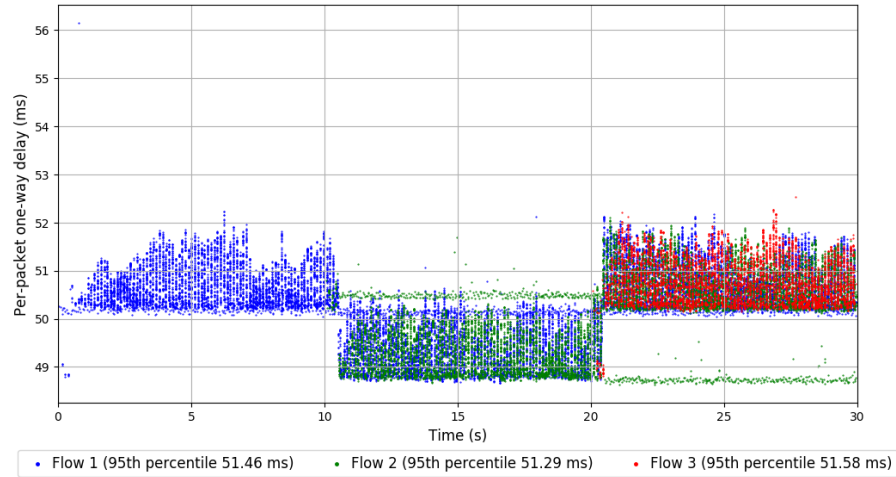
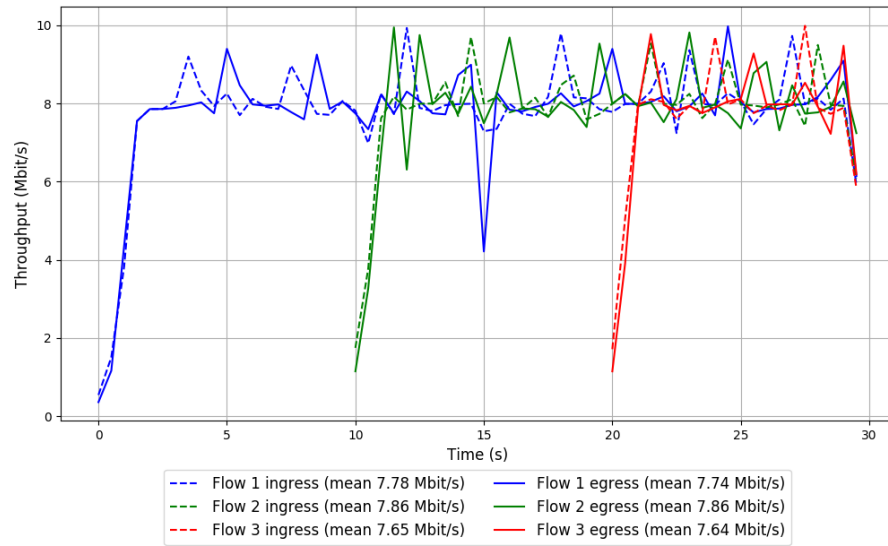
-- Flow 3:

Average throughput: 7.64 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 19:20:24

End at: 2018-01-26 19:20:54

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.69 Mbit/s

95th percentile per-packet one-way delay: 51.558 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.465 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.645 ms

Loss rate: 0.04%

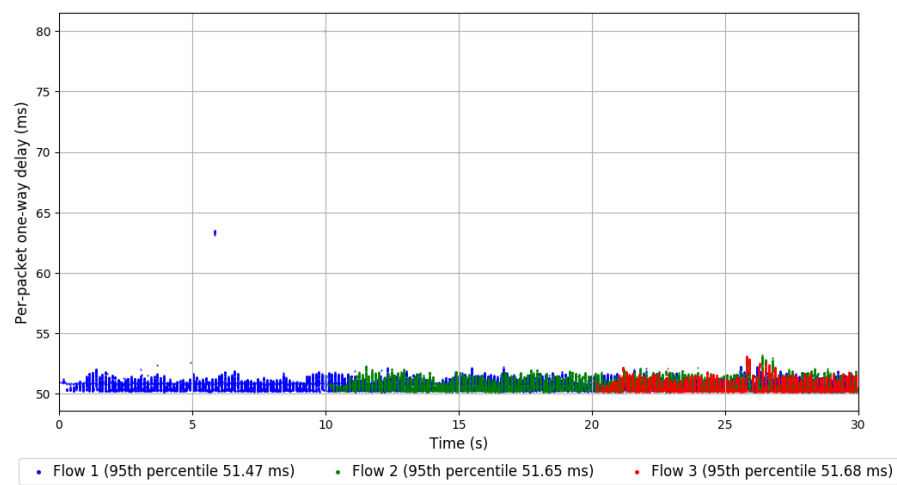
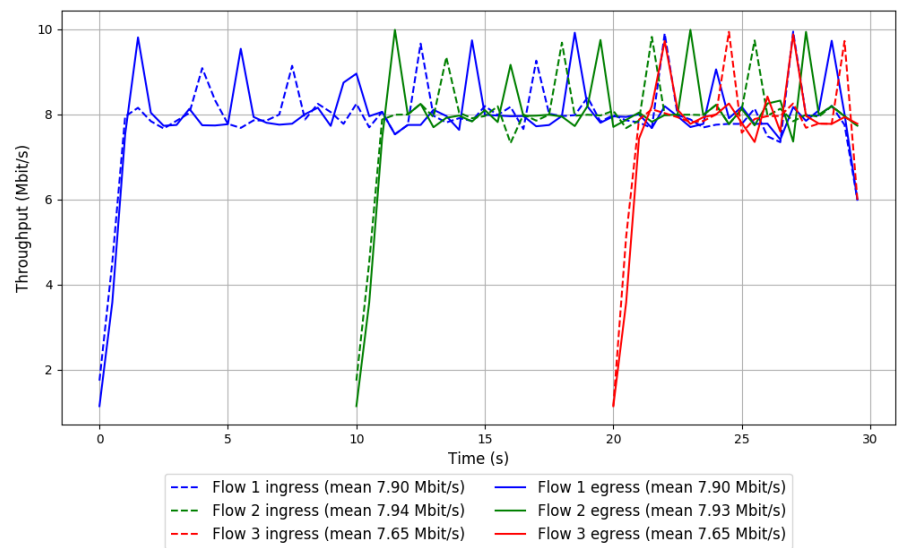
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.680 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 19:34:15

End at: 2018-01-26 19:34:45

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 51.724 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.715 ms

Loss rate: 0.01%

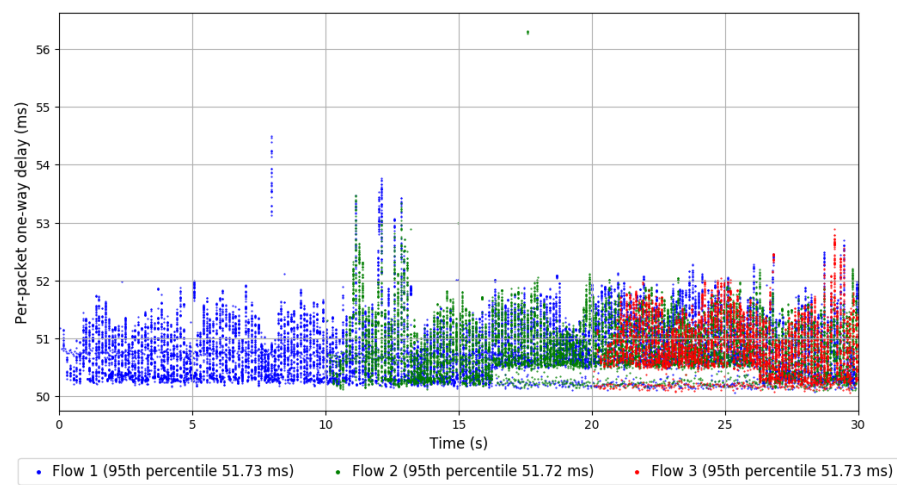
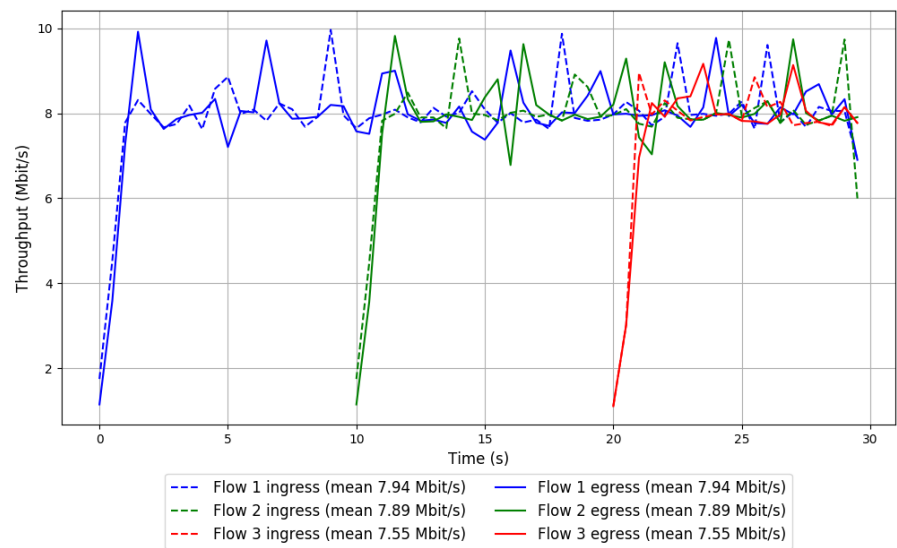
-- Flow 3:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 19:48:12

End at: 2018-01-26 19:48:42

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 51.625 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 7.89 Mbit/s

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

Loss rate: 0.38%

-- Flow 2:

Average throughput: 7.73 Mbit/s

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

Loss rate: 0.00%

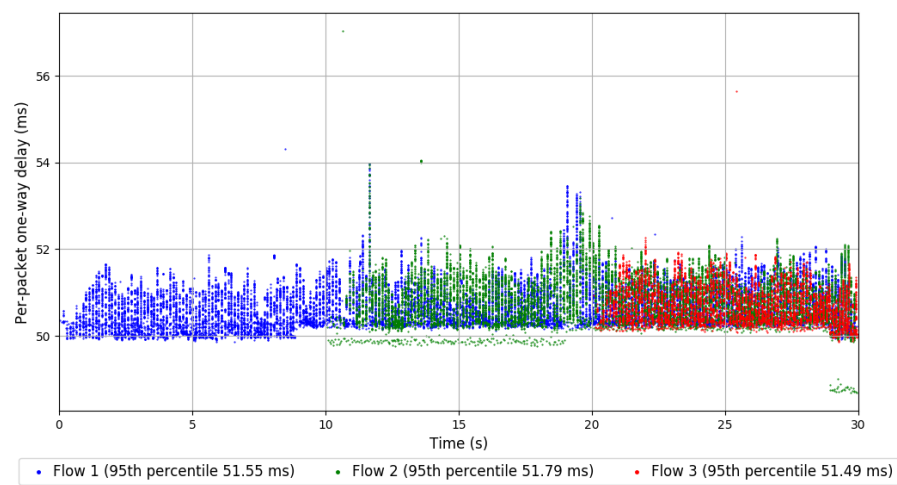
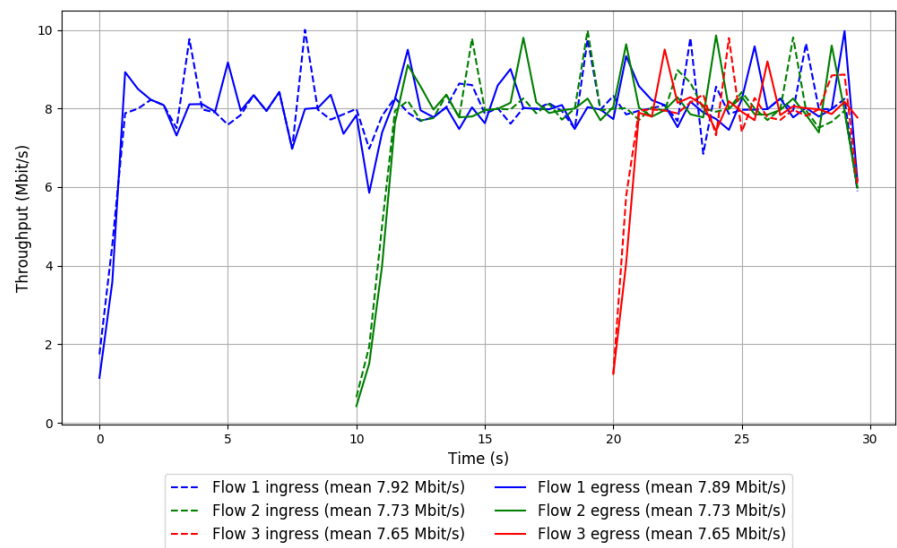
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.489 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 20:02:08

End at: 2018-01-26 20:02:38

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

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

Loss rate: 0.38%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.414 ms

Loss rate: 0.59%

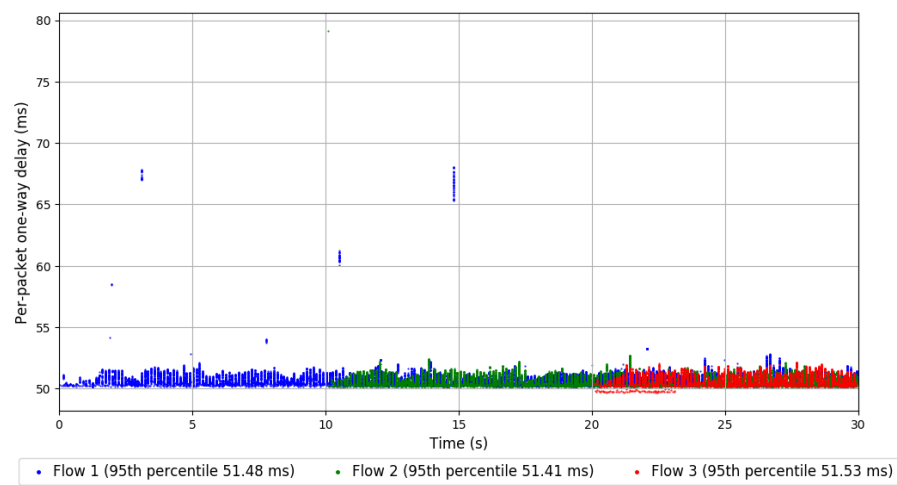
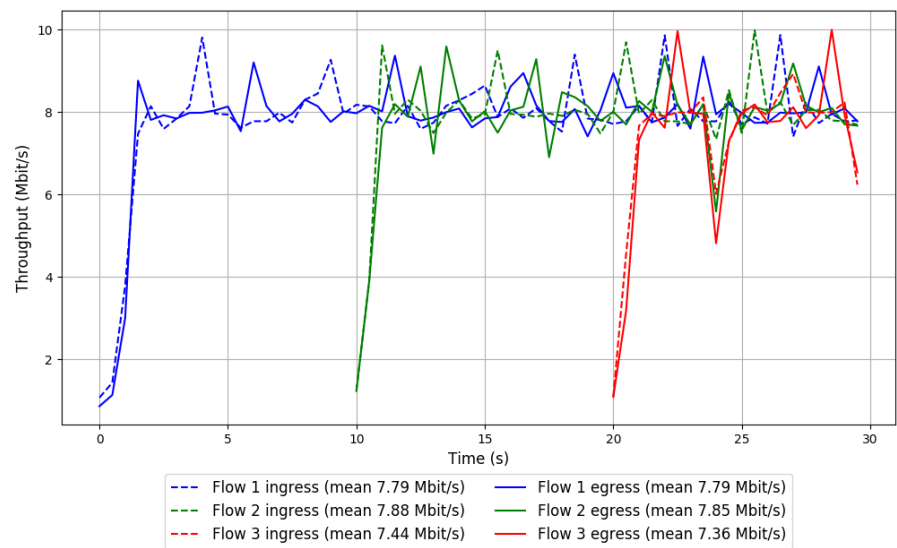
-- Flow 3:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 51.531 ms

Loss rate: 1.13%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 20:16:01

End at: 2018-01-26 20:16:31

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 51.476 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.579 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.06%

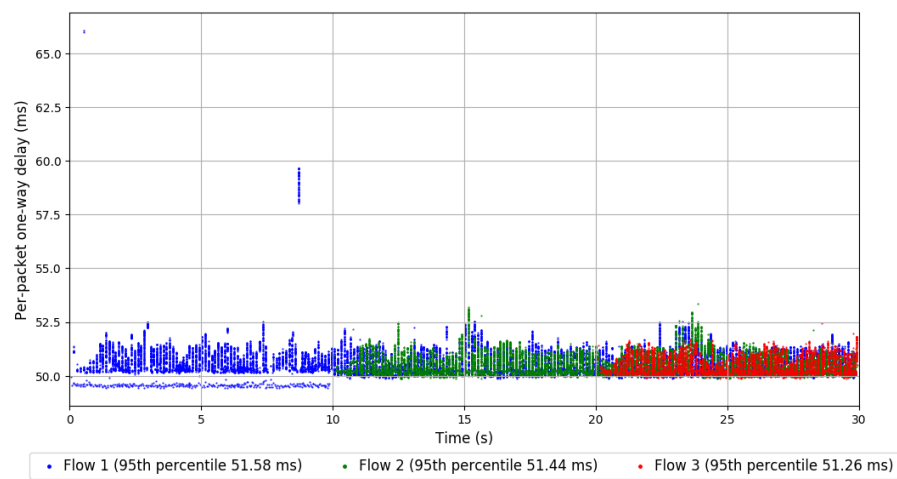
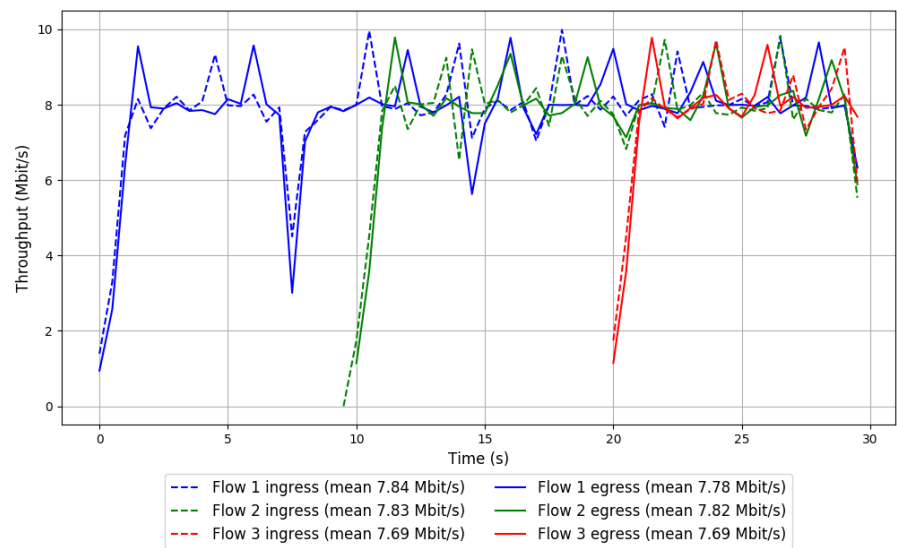
-- Flow 3:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 51.259 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 20:29:40

End at: 2018-01-26 20:30:10

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 51.274 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.403 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 0.66%

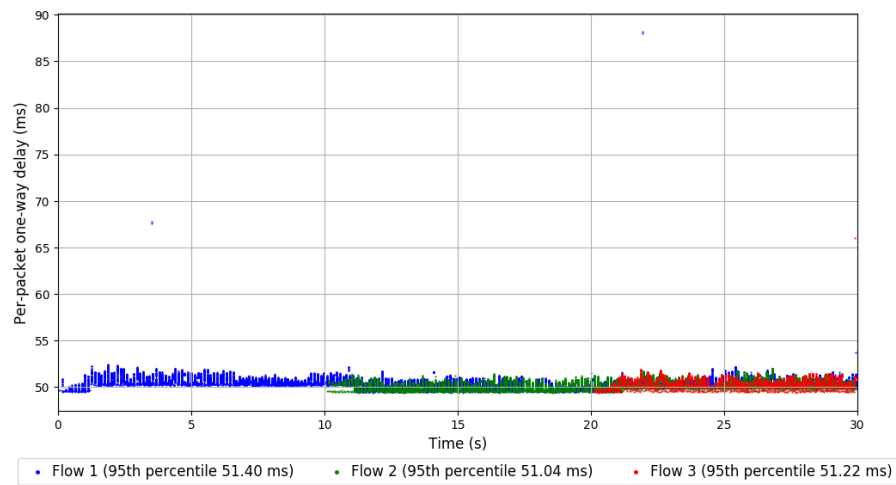
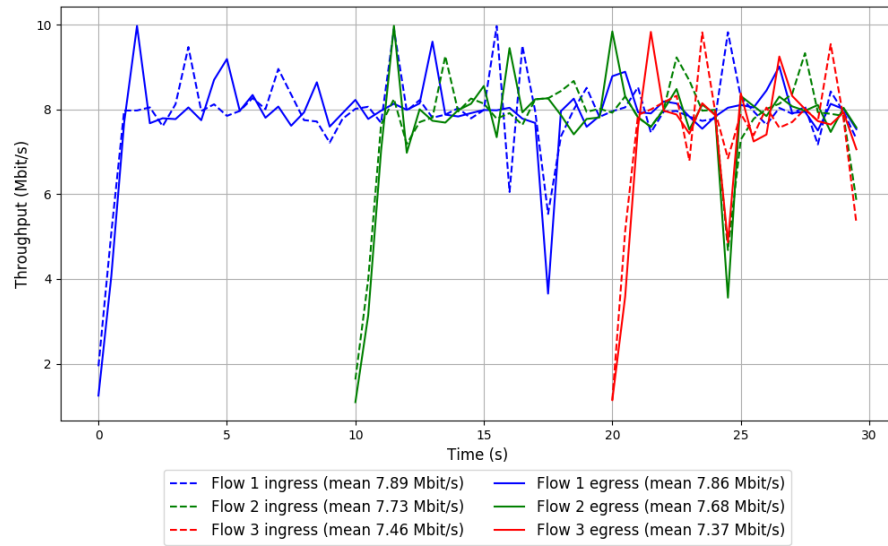
-- Flow 3:

Average throughput: 7.37 Mbit/s

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

Loss rate: 1.19%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 20:43:30

End at: 2018-01-26 20:44:00

Below is generated by plot.py at 2018-01-26 22:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.91 Mbit/s

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

Loss rate: 0.00%

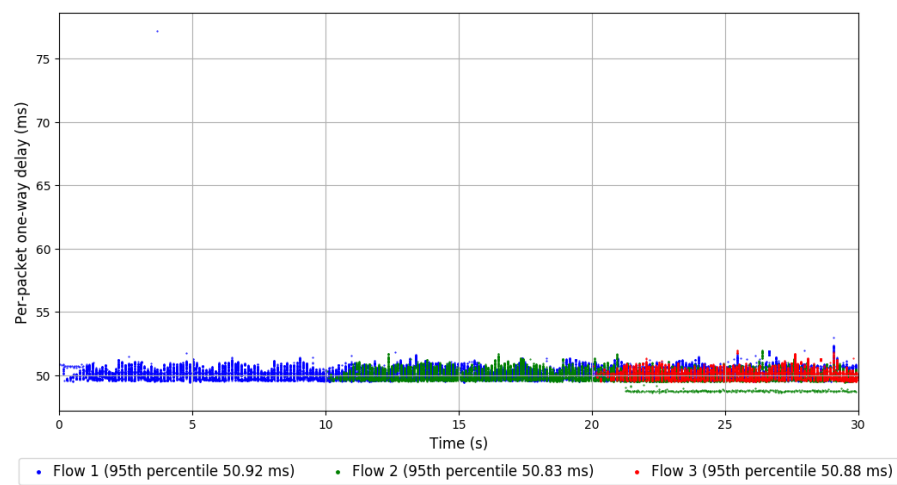
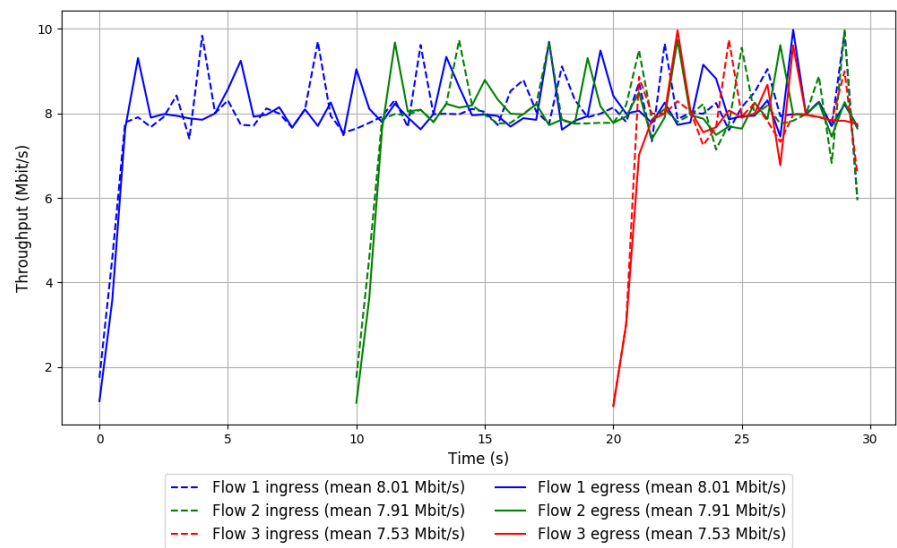
-- Flow 3:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 50.880 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

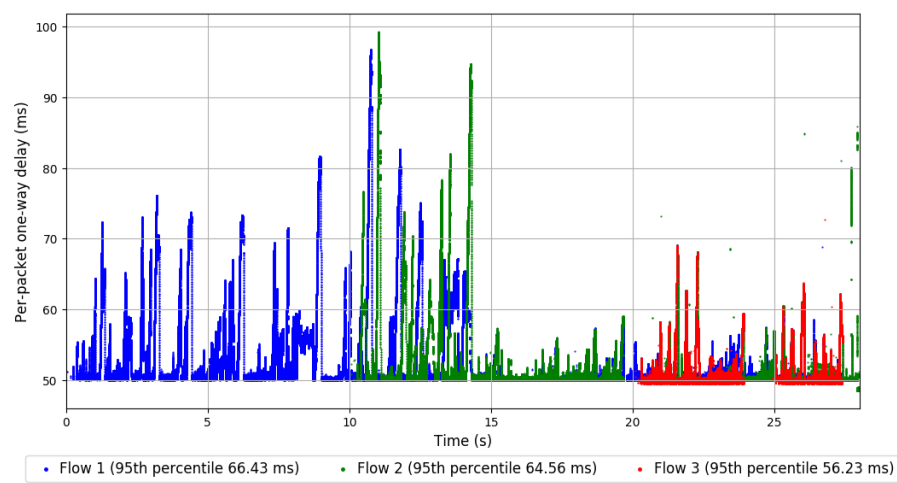
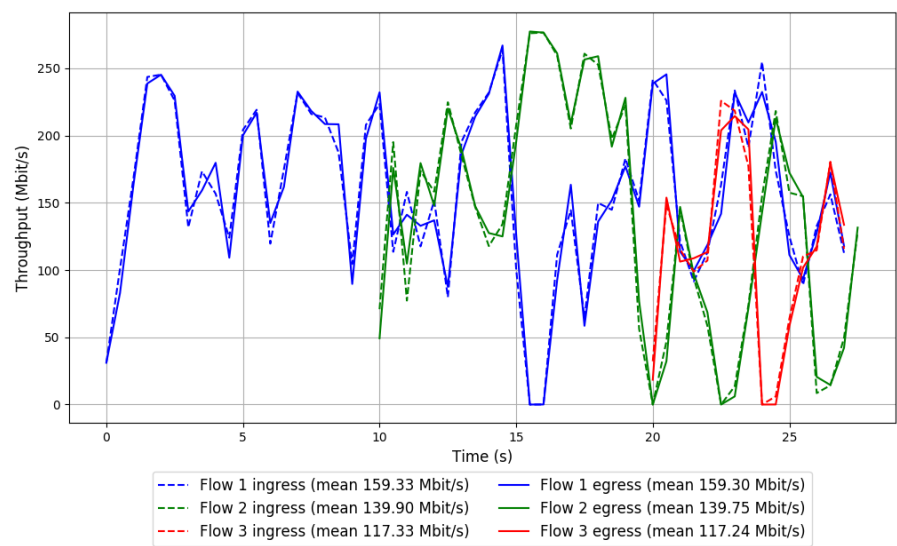


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 18:44:11
End at: 2018-01-26 18:44:41

# Below is generated by plot.py at 2018-01-26 22:53:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.19 Mbit/s
95th percentile per-packet one-way delay: 64.951 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 159.30 Mbit/s
95th percentile per-packet one-way delay: 66.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 139.75 Mbit/s
95th percentile per-packet one-way delay: 64.560 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 117.24 Mbit/s
95th percentile per-packet one-way delay: 56.231 ms
Loss rate: 0.01%
```


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

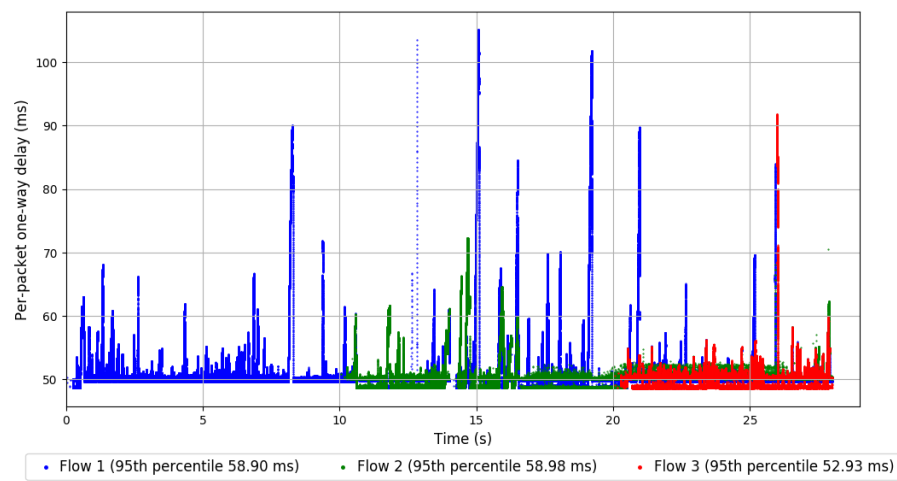
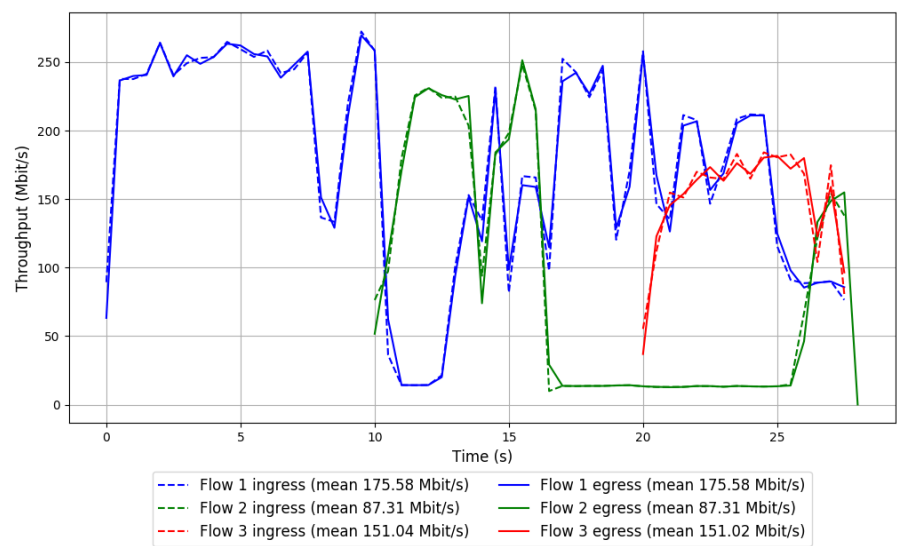


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 18:57:59
End at: 2018-01-26 18:58:29

# Below is generated by plot.py at 2018-01-26 22:53:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.48 Mbit/s
95th percentile per-packet one-way delay: 57.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.58 Mbit/s
95th percentile per-packet one-way delay: 58.900 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 58.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 151.02 Mbit/s
95th percentile per-packet one-way delay: 52.930 ms
Loss rate: 0.00%
```

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

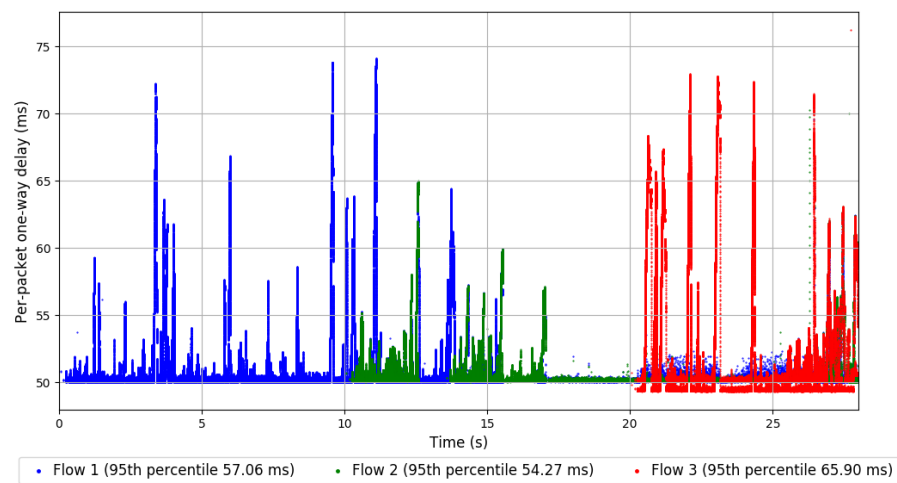
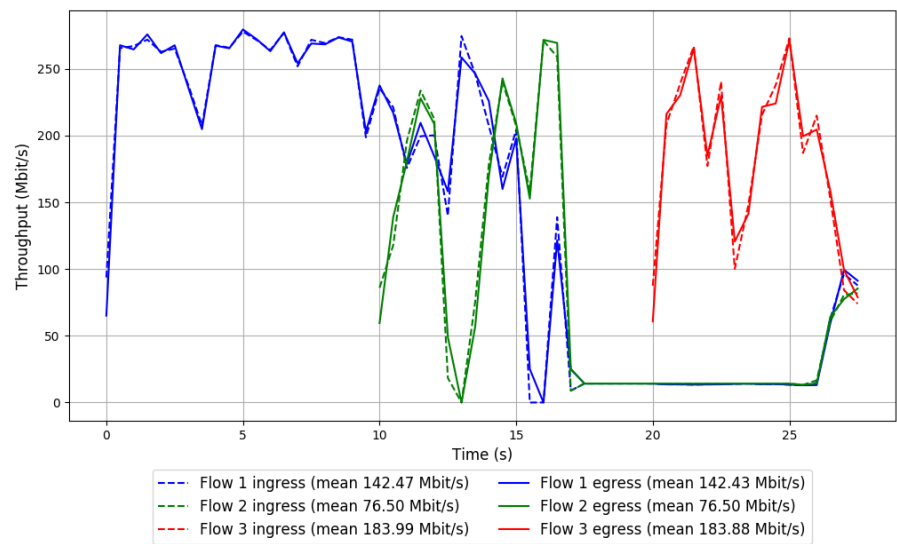


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 19:11:41
End at: 2018-01-26 19:12:11

# Below is generated by plot.py at 2018-01-26 22:53:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.33 Mbit/s
95th percentile per-packet one-way delay: 59.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.43 Mbit/s
95th percentile per-packet one-way delay: 57.060 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.50 Mbit/s
95th percentile per-packet one-way delay: 54.270 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 183.88 Mbit/s
95th percentile per-packet one-way delay: 65.896 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 19:25:27

End at: 2018-01-26 19:25:57

Below is generated by plot.py at 2018-01-26 22:53:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.75 Mbit/s

95th percentile per-packet one-way delay: 54.503 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 160.77 Mbit/s

95th percentile per-packet one-way delay: 57.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.81 Mbit/s

95th percentile per-packet one-way delay: 51.379 ms

Loss rate: 0.00%

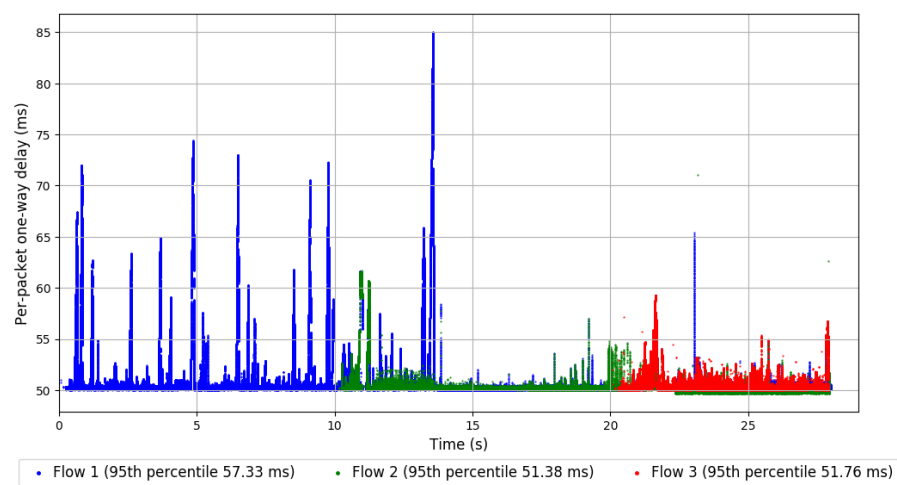
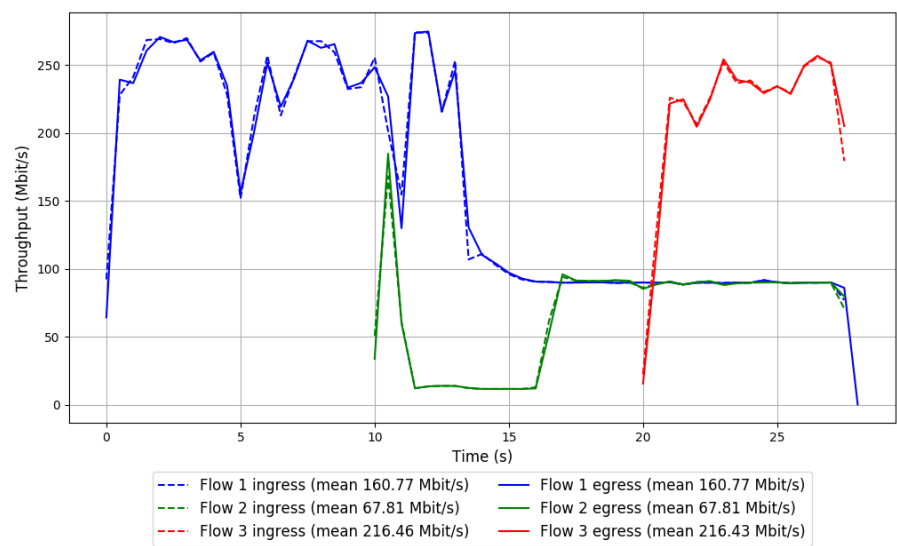
-- Flow 3:

Average throughput: 216.43 Mbit/s

95th percentile per-packet one-way delay: 51.759 ms

Loss rate: 0.00%

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

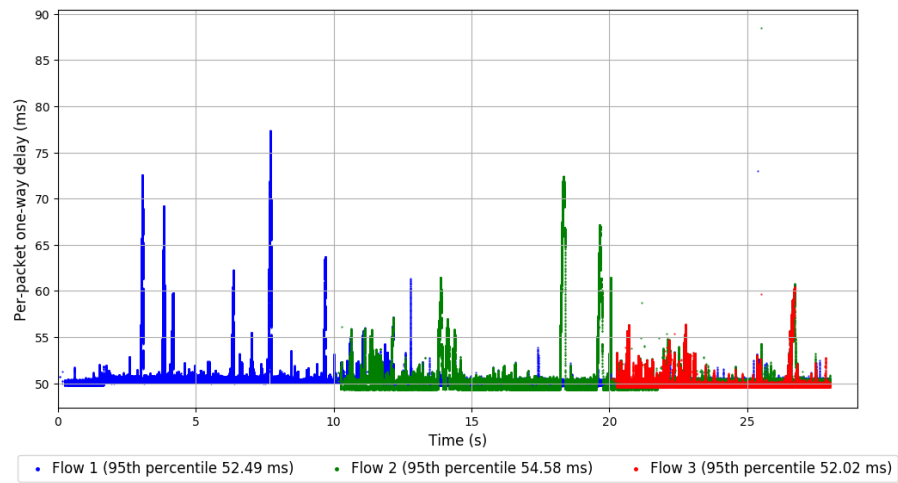
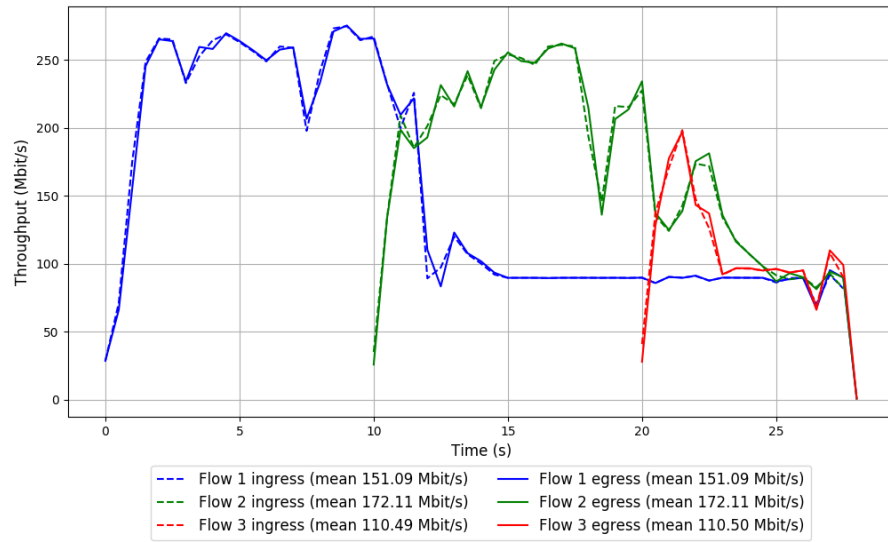


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 19:39:27
End at: 2018-01-26 19:39:57

# Below is generated by plot.py at 2018-01-26 22:54:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 292.90 Mbit/s
95th percentile per-packet one-way delay: 53.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.09 Mbit/s
95th percentile per-packet one-way delay: 52.493 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 172.11 Mbit/s
95th percentile per-packet one-way delay: 54.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.50 Mbit/s
95th percentile per-packet one-way delay: 52.015 ms
Loss rate: 0.00%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 19:53:20

End at: 2018-01-26 19:53:50

Below is generated by plot.py at 2018-01-26 22:55:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.95 Mbit/s

95th percentile per-packet one-way delay: 56.436 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.48 Mbit/s

95th percentile per-packet one-way delay: 55.171 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.83 Mbit/s

95th percentile per-packet one-way delay: 60.218 ms

Loss rate: 0.00%

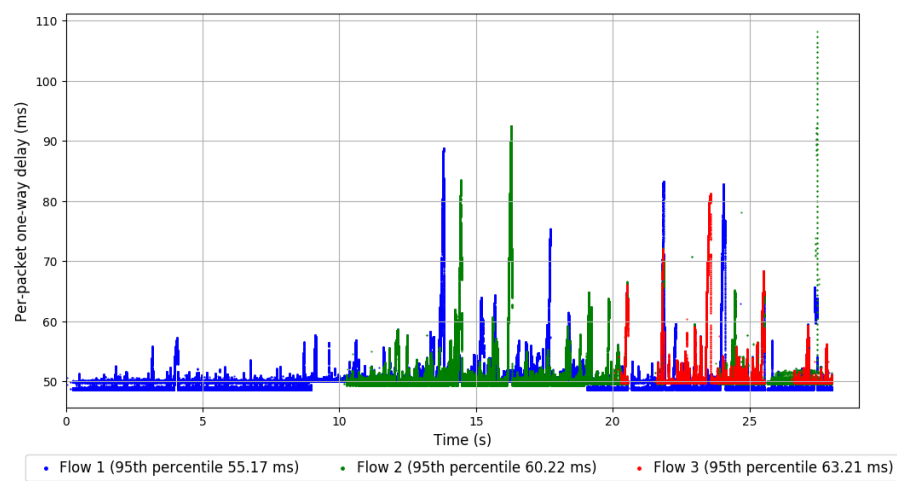
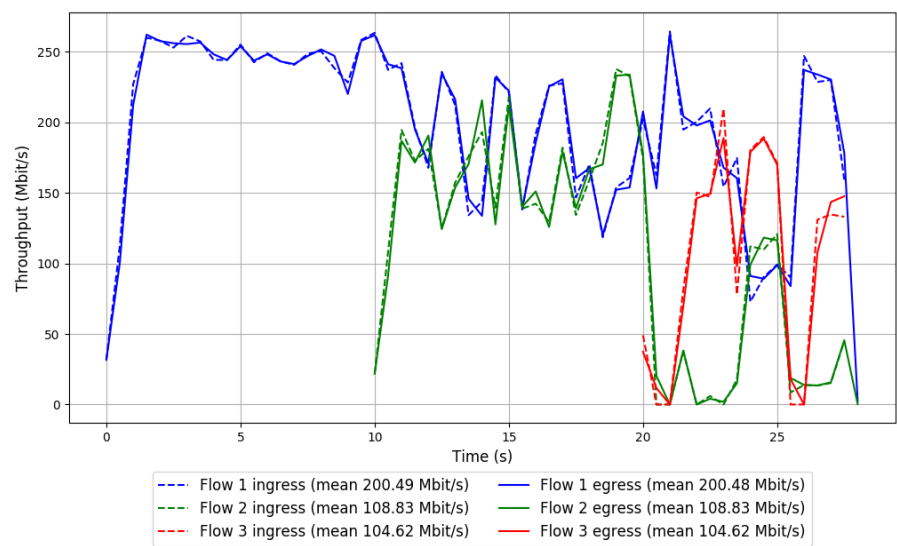
-- Flow 3:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 63.213 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 20:07:18

End at: 2018-01-26 20:07:48

Below is generated by plot.py at 2018-01-26 22:59:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.01 Mbit/s

95th percentile per-packet one-way delay: 55.172 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 157.57 Mbit/s

95th percentile per-packet one-way delay: 51.834 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 196.92 Mbit/s

95th percentile per-packet one-way delay: 60.686 ms

Loss rate: 0.20%

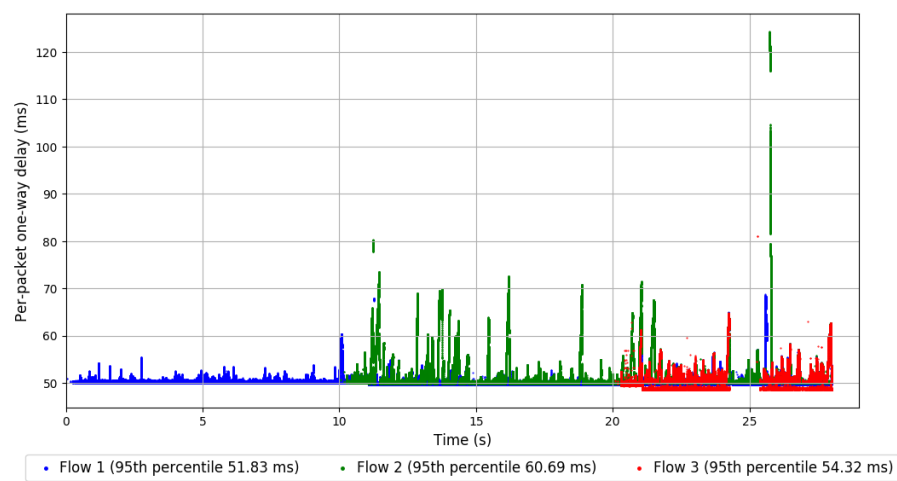
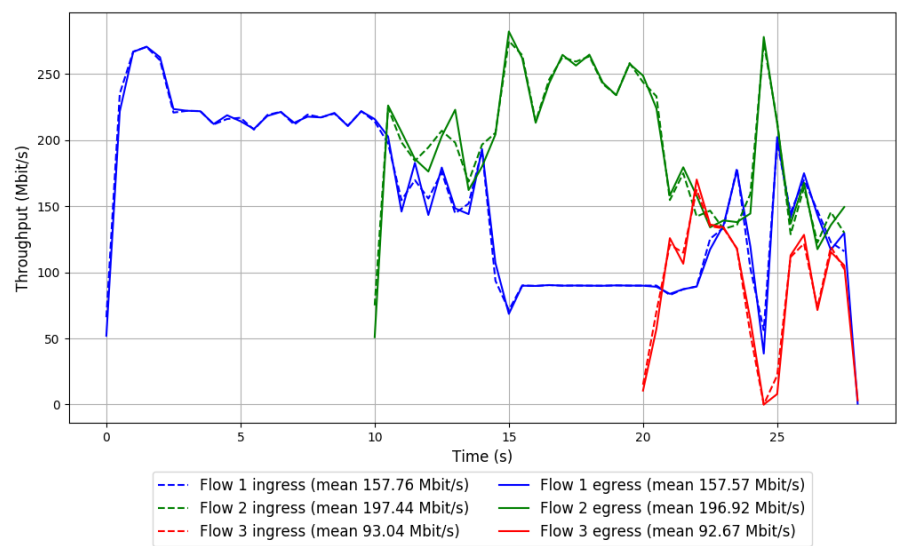
-- Flow 3:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 54.319 ms

Loss rate: 0.40%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 20:21:06

End at: 2018-01-26 20:21:36

Below is generated by plot.py at 2018-01-26 22:59:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.60 Mbit/s

95th percentile per-packet one-way delay: 65.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 145.13 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.82 Mbit/s

95th percentile per-packet one-way delay: 67.128 ms

Loss rate: 0.00%

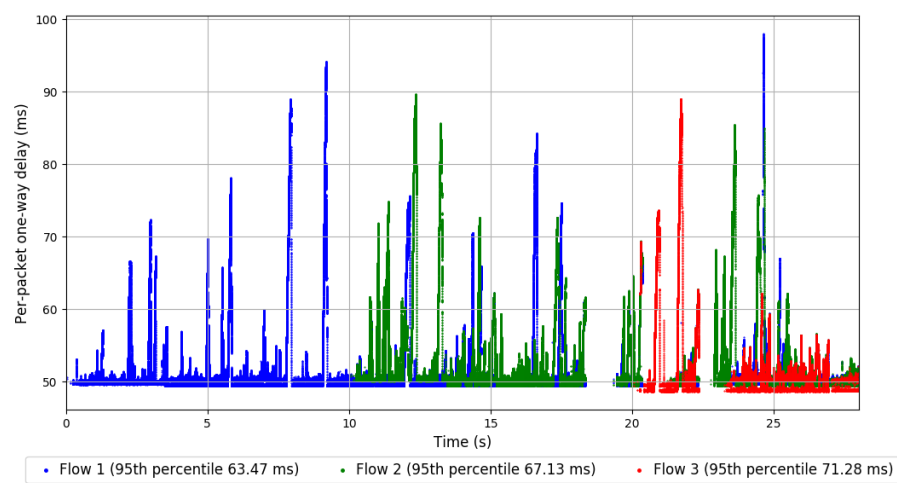
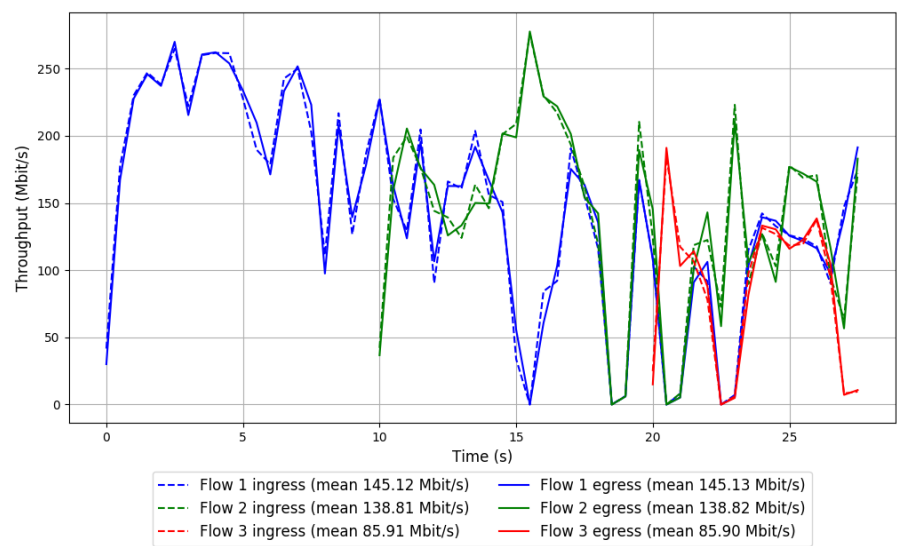
-- Flow 3:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 71.275 ms

Loss rate: 0.00%

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

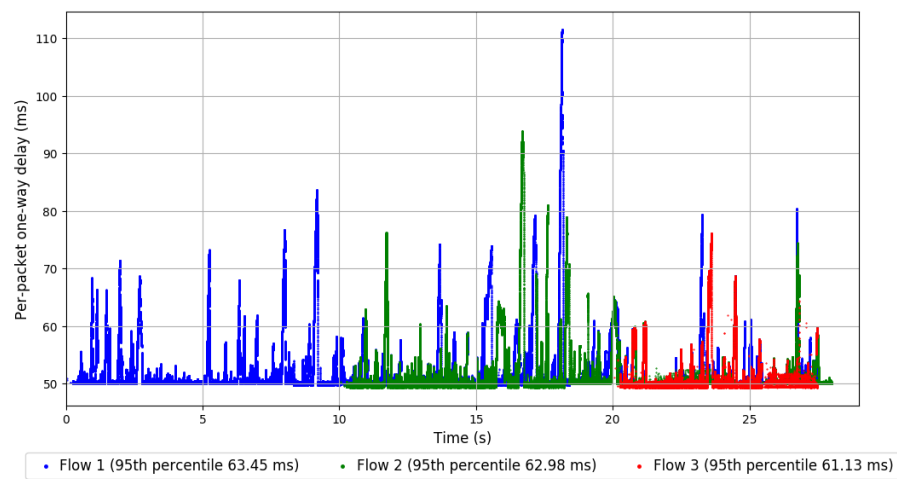
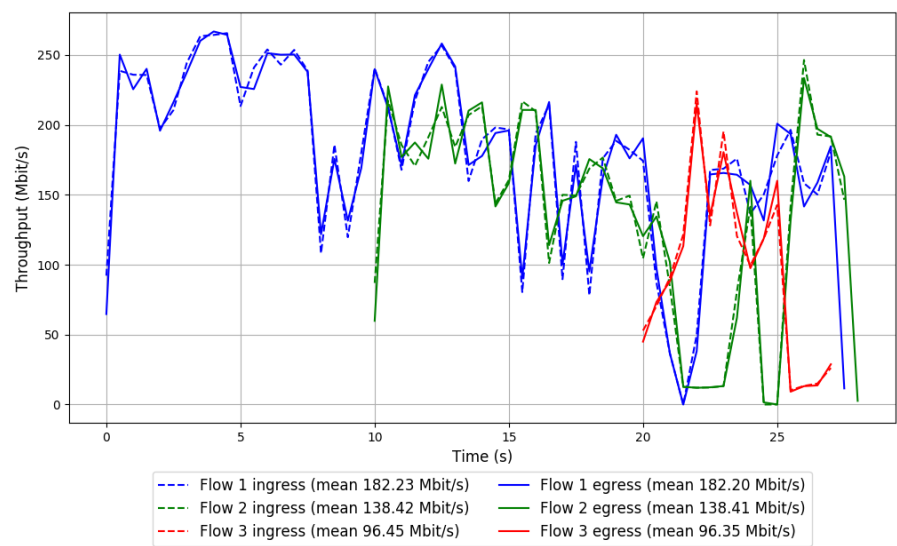


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 20:34:51
End at: 2018-01-26 20:35:21

# Below is generated by plot.py at 2018-01-26 23:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.45 Mbit/s
95th percentile per-packet one-way delay: 63.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.20 Mbit/s
95th percentile per-packet one-way delay: 63.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.41 Mbit/s
95th percentile per-packet one-way delay: 62.979 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 61.131 ms
Loss rate: 0.00%
```


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

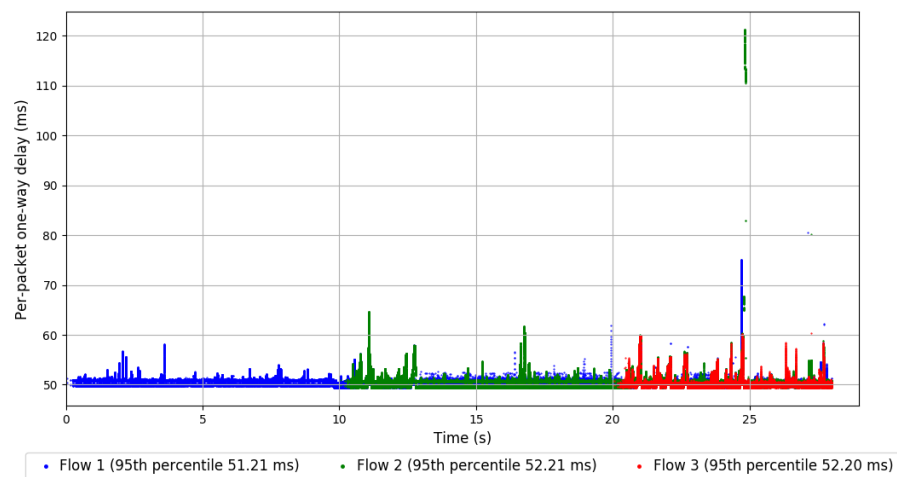
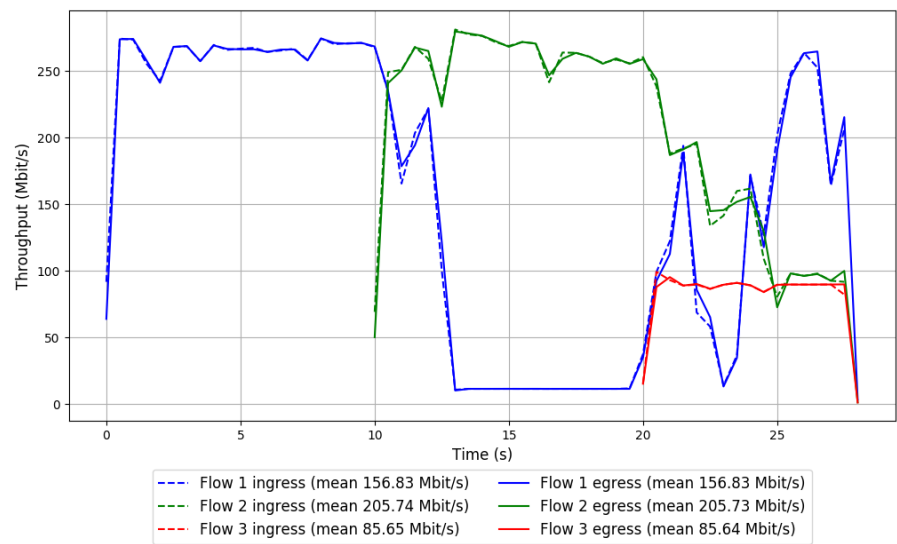


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 20:48:39
End at: 2018-01-26 20:49:09

# Below is generated by plot.py at 2018-01-26 23:02:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.22 Mbit/s
95th percentile per-packet one-way delay: 51.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.83 Mbit/s
95th percentile per-packet one-way delay: 51.214 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 205.73 Mbit/s
95th percentile per-packet one-way delay: 52.210 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 52.202 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 18:41:22

End at: 2018-01-26 18:41:52

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.10 Mbit/s

95th percentile per-packet one-way delay: 58.387 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 2719.597 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.57 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.00%

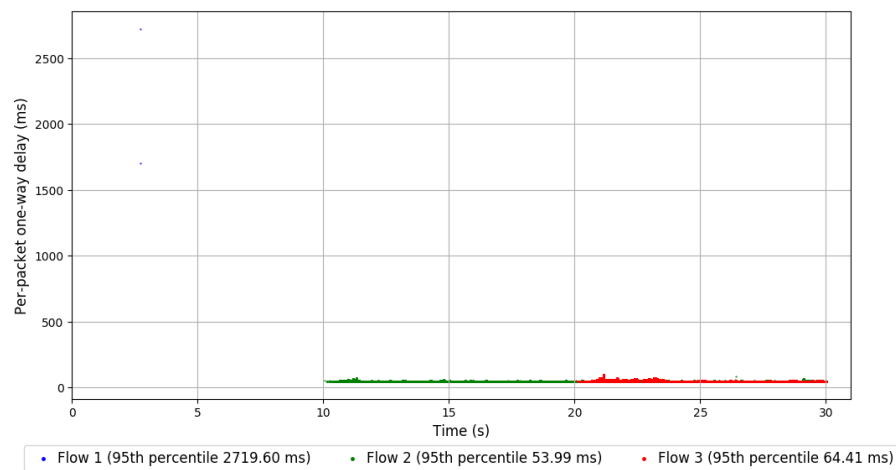
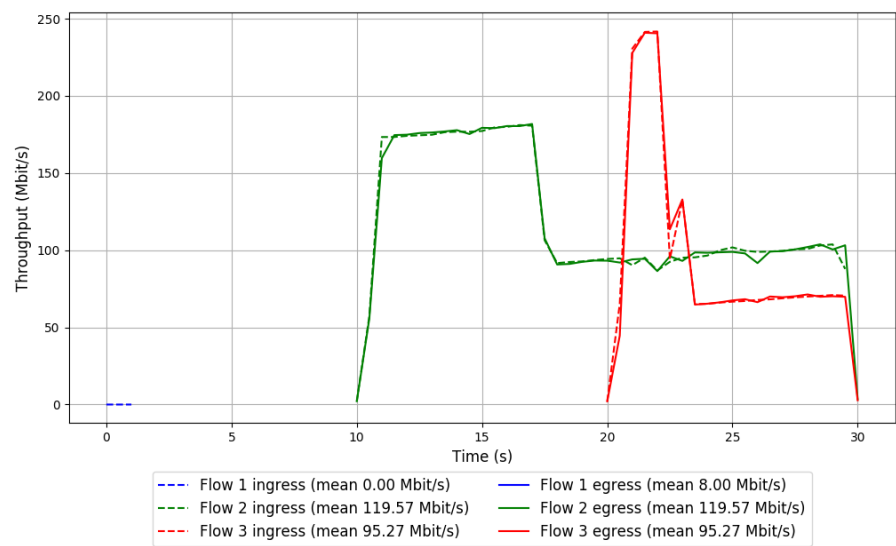
-- Flow 3:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 64.411 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 18:55:11

End at: 2018-01-26 18:55:41

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.26 Mbit/s

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

Loss rate: 0.37%

-- Flow 1:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 51.340 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 13.72 Mbit/s

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

Loss rate: 0.01%

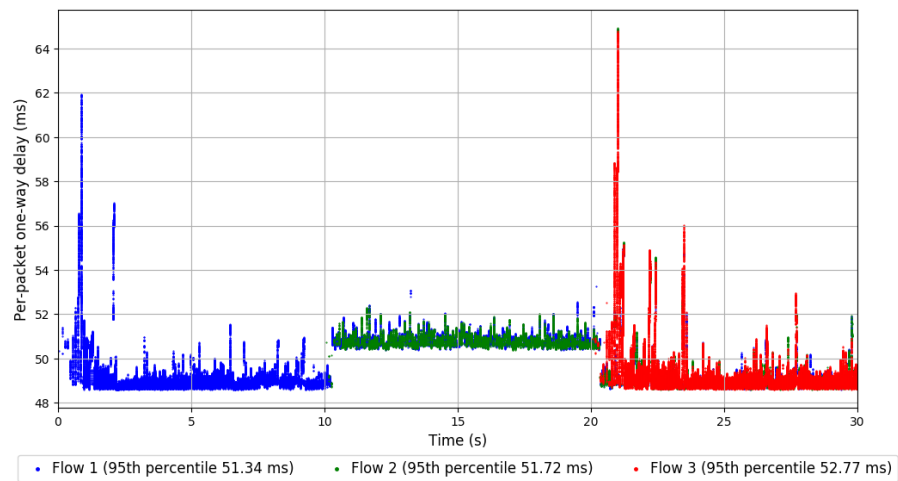
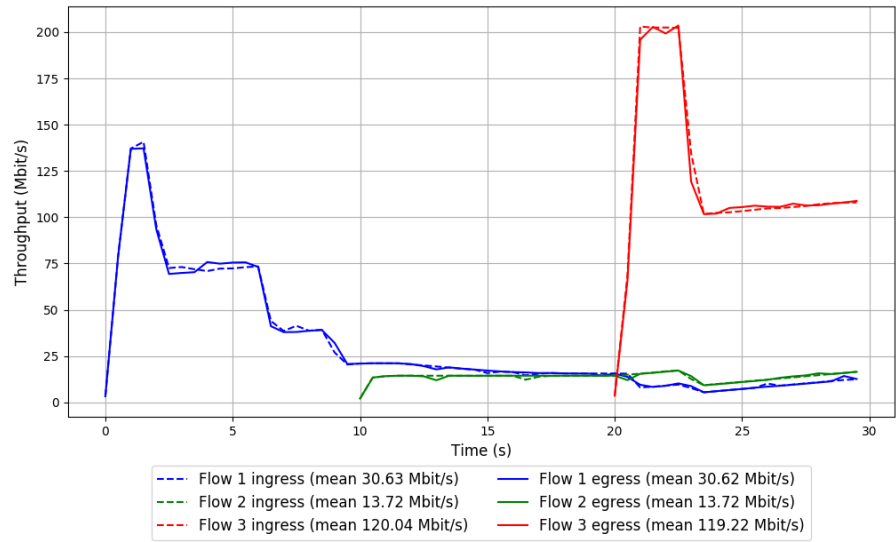
-- Flow 3:

Average throughput: 119.22 Mbit/s

95th percentile per-packet one-way delay: 52.765 ms

Loss rate: 0.71%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 19:08:47

End at: 2018-01-26 19:09:17

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.51 Mbit/s

95th percentile per-packet one-way delay: 61.672 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 56.400 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 59.14 Mbit/s

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

Loss rate: 0.01%

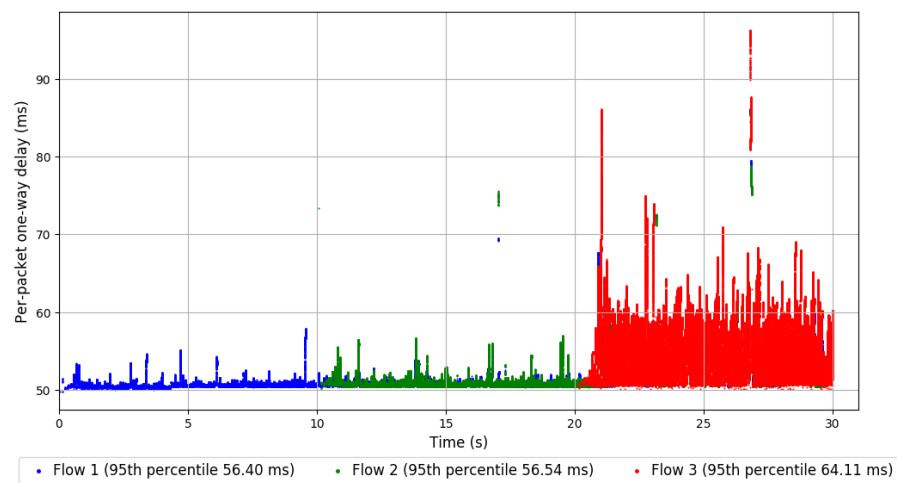
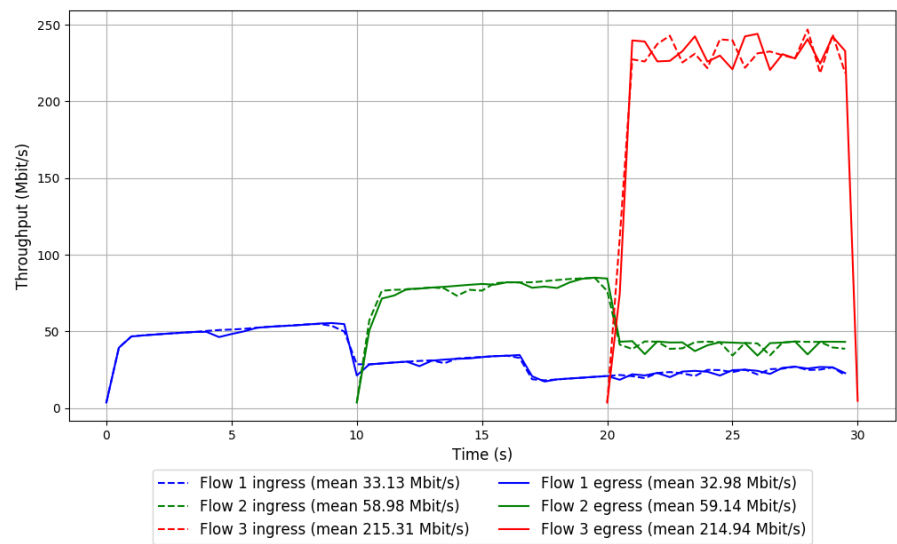
-- Flow 3:

Average throughput: 214.94 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 0.14%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 19:22:39

End at: 2018-01-26 19:23:09

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 62.486 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 1515.214 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.71 Mbit/s

95th percentile per-packet one-way delay: 56.205 ms

Loss rate: 0.54%

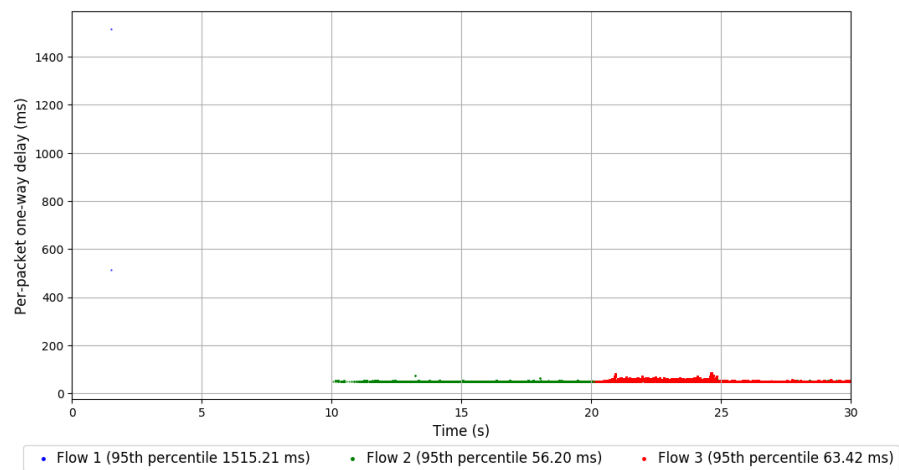
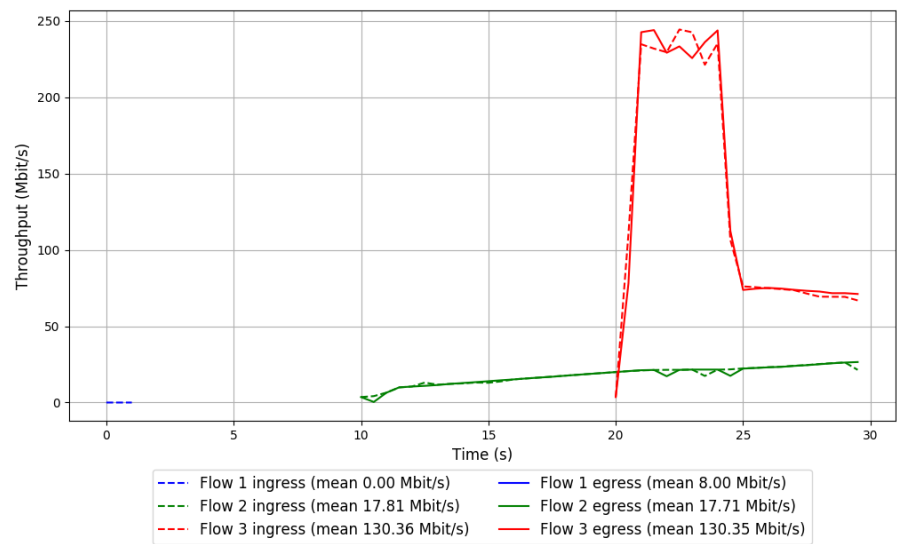
-- Flow 3:

Average throughput: 130.35 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 19:36:31

End at: 2018-01-26 19:37:01

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.30 Mbit/s

95th percentile per-packet one-way delay: 57.012 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 59.230 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.98 Mbit/s

95th percentile per-packet one-way delay: 54.751 ms

Loss rate: 0.00%

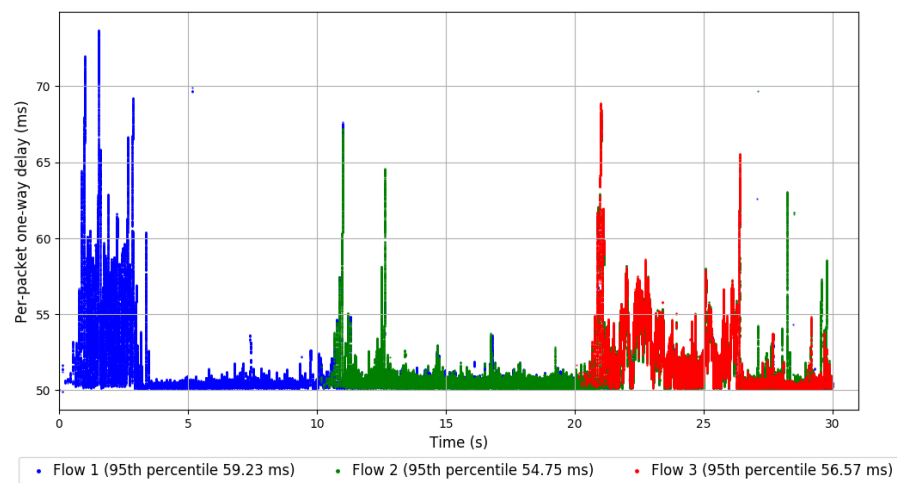
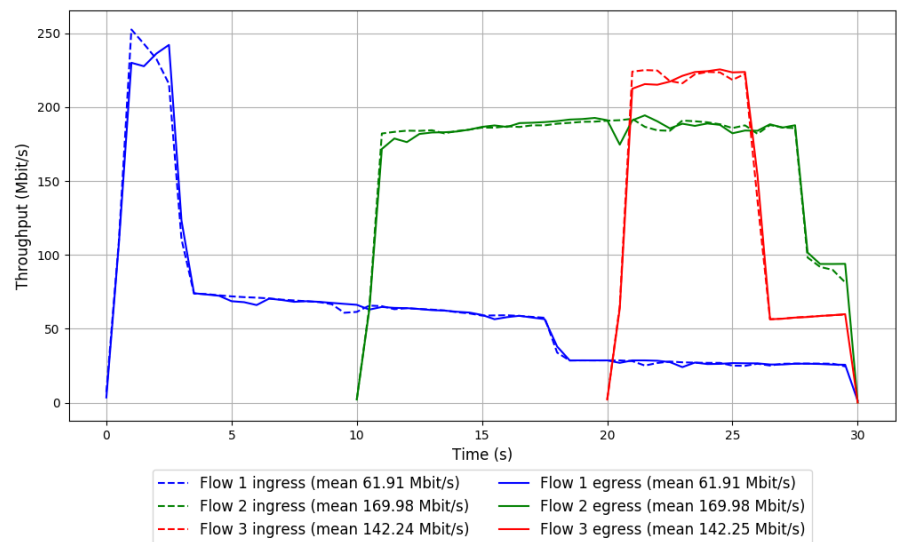
-- Flow 3:

Average throughput: 142.25 Mbit/s

95th percentile per-packet one-way delay: 56.570 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 19:50:28

End at: 2018-01-26 19:50:58

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.62 Mbit/s

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

Loss rate: 0.22%

-- Flow 1:

Average throughput: 59.59 Mbit/s

95th percentile per-packet one-way delay: 51.300 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 47.80 Mbit/s

95th percentile per-packet one-way delay: 53.088 ms

Loss rate: 0.02%

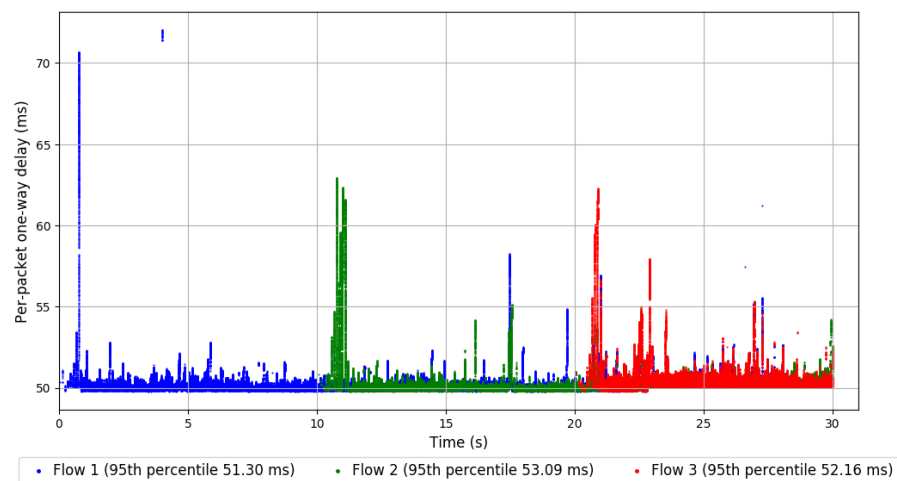
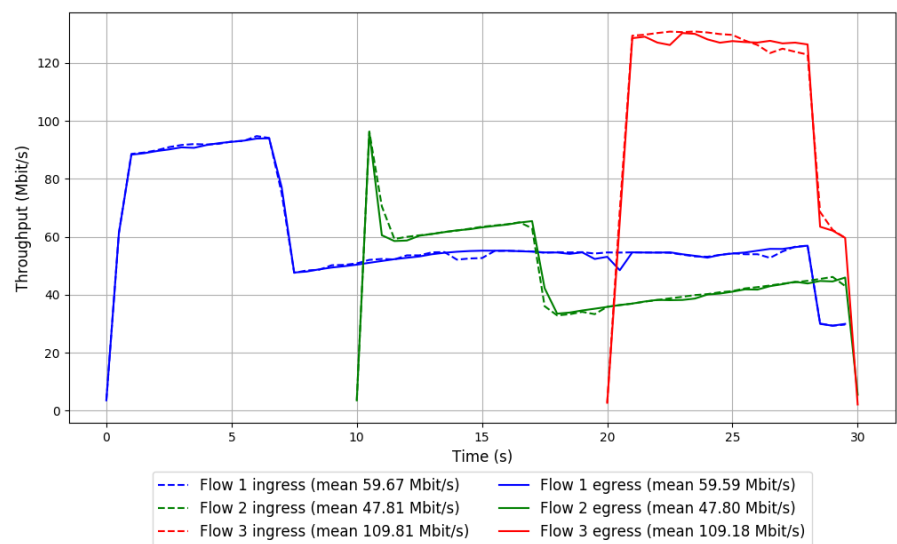
-- Flow 3:

Average throughput: 109.18 Mbit/s

95th percentile per-packet one-way delay: 52.158 ms

Loss rate: 0.56%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 20:04:23

End at: 2018-01-26 20:04:53

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.24 Mbit/s

95th percentile per-packet one-way delay: 52.543 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.57 Mbit/s

95th percentile per-packet one-way delay: 51.994 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 182.58 Mbit/s

95th percentile per-packet one-way delay: 52.749 ms

Loss rate: 0.00%

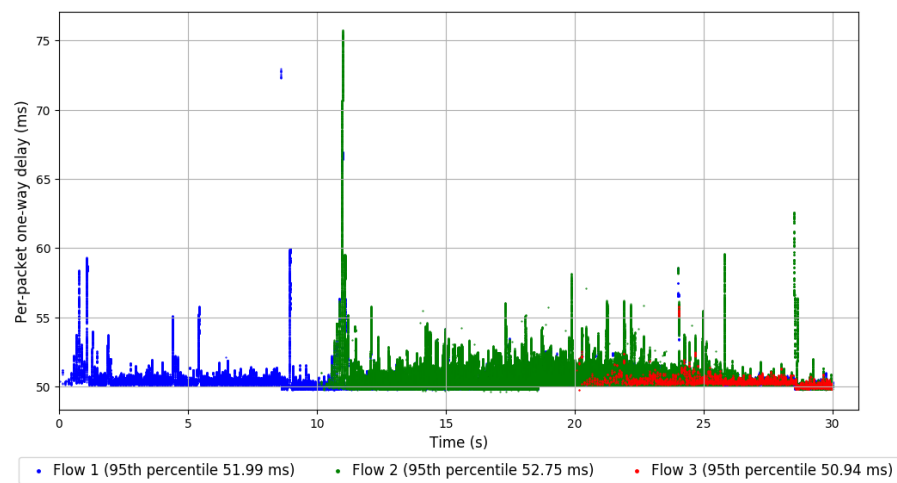
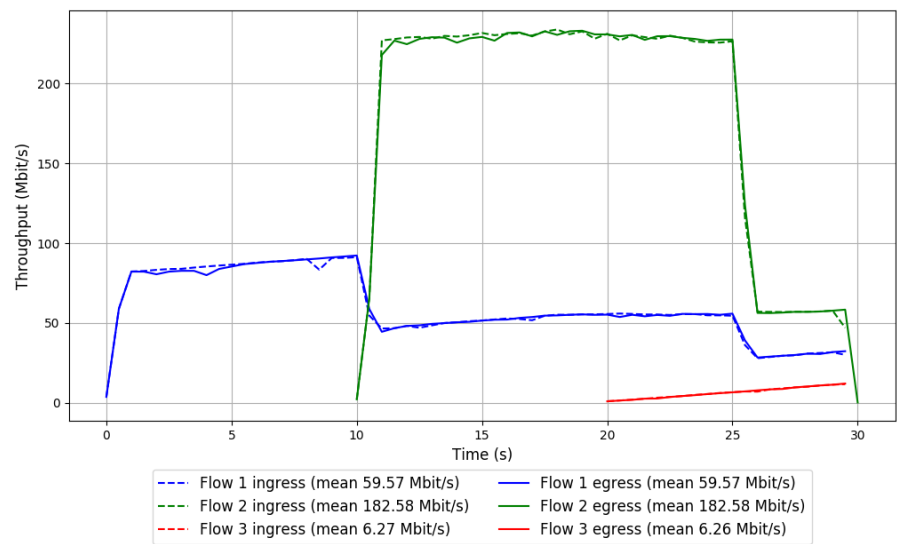
-- Flow 3:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.08%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 20:18:16

End at: 2018-01-26 20:18:46

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.56 Mbit/s

95th percentile per-packet one-way delay: 57.148 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 39.76 Mbit/s

95th percentile per-packet one-way delay: 52.249 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 72.90 Mbit/s

95th percentile per-packet one-way delay: 53.061 ms

Loss rate: 0.04%

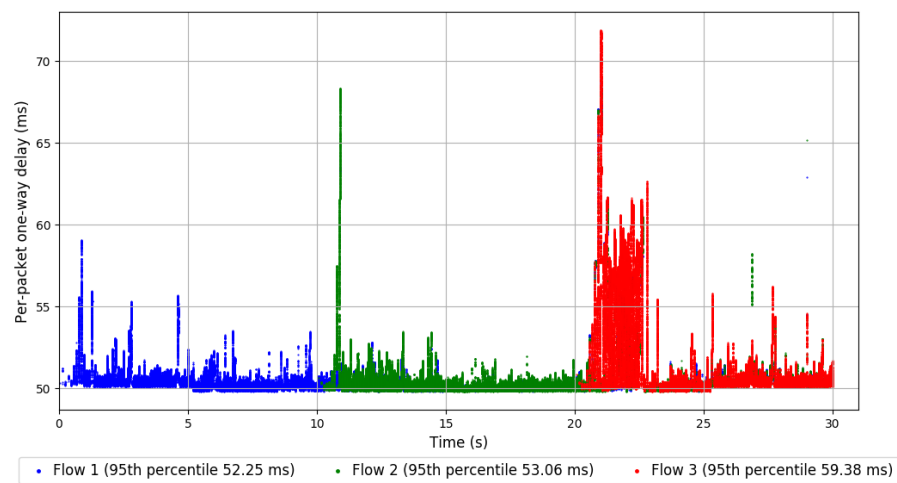
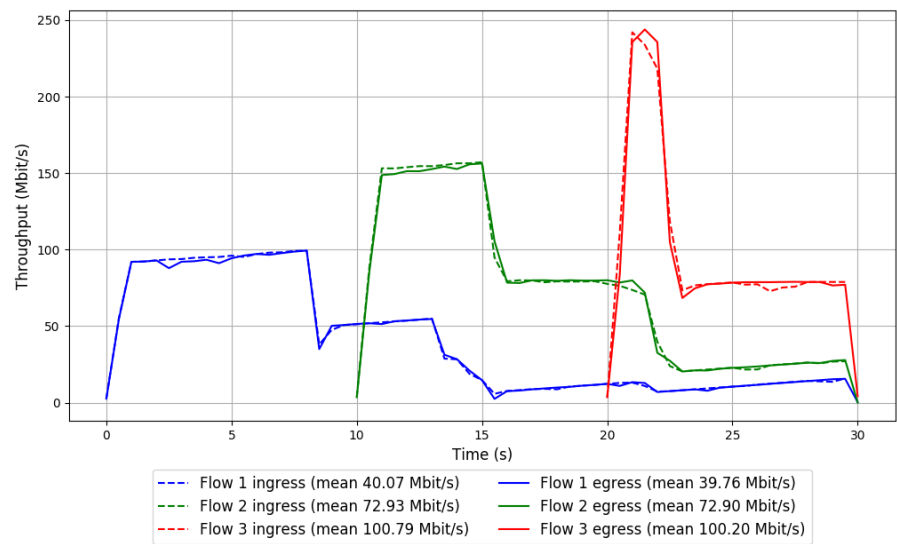
-- Flow 3:

Average throughput: 100.20 Mbit/s

95th percentile per-packet one-way delay: 59.380 ms

Loss rate: 0.59%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 20:31:54

End at: 2018-01-26 20:32:24

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 61.211 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 61.15 Mbit/s

95th percentile per-packet one-way delay: 54.872 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 146.50 Mbit/s

95th percentile per-packet one-way delay: 58.000 ms

Loss rate: 0.01%

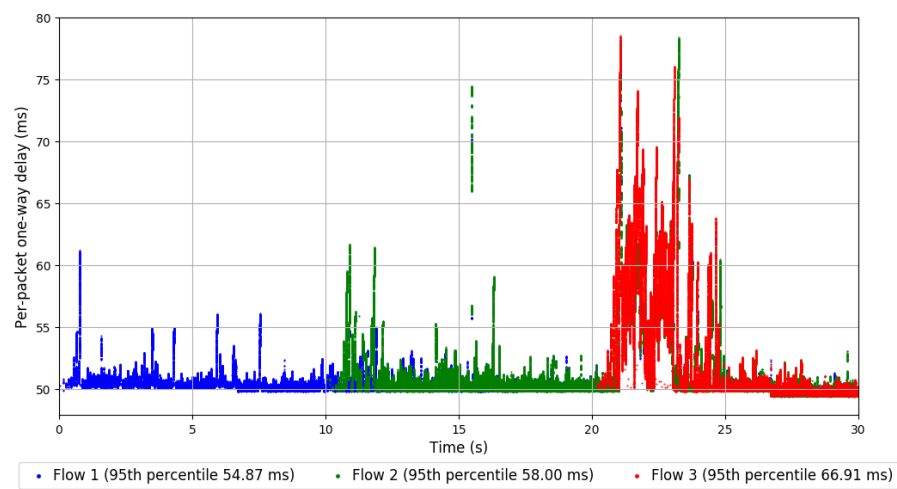
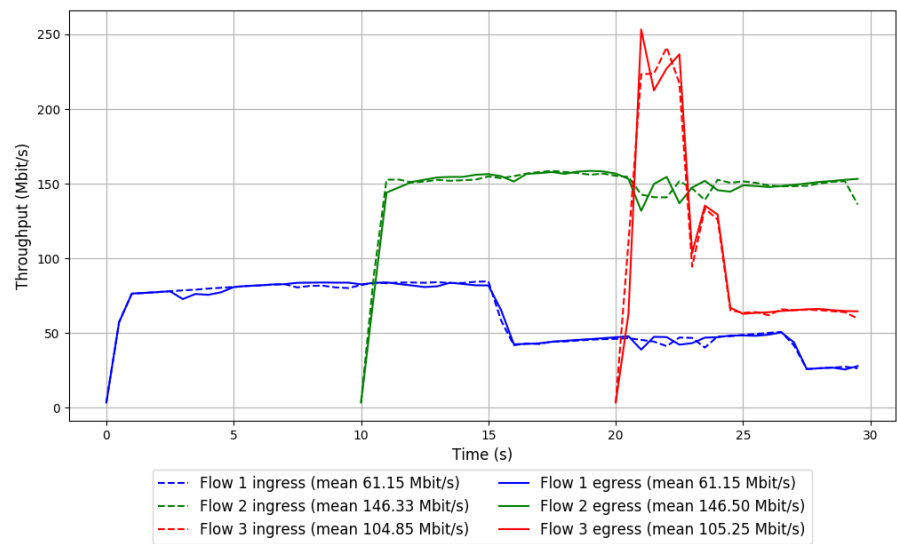
-- Flow 3:

Average throughput: 105.25 Mbit/s

95th percentile per-packet one-way delay: 66.906 ms

Loss rate: 0.04%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 20:45:45

End at: 2018-01-26 20:46:15

Below is generated by plot.py at 2018-01-26 23:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.63 Mbit/s

95th percentile per-packet one-way delay: 58.142 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 54.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.17 Mbit/s

95th percentile per-packet one-way delay: 55.305 ms

Loss rate: 0.02%

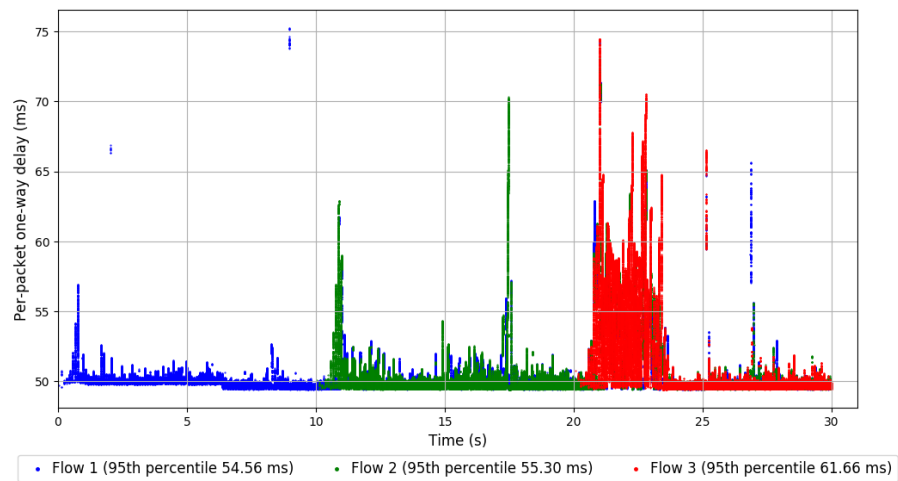
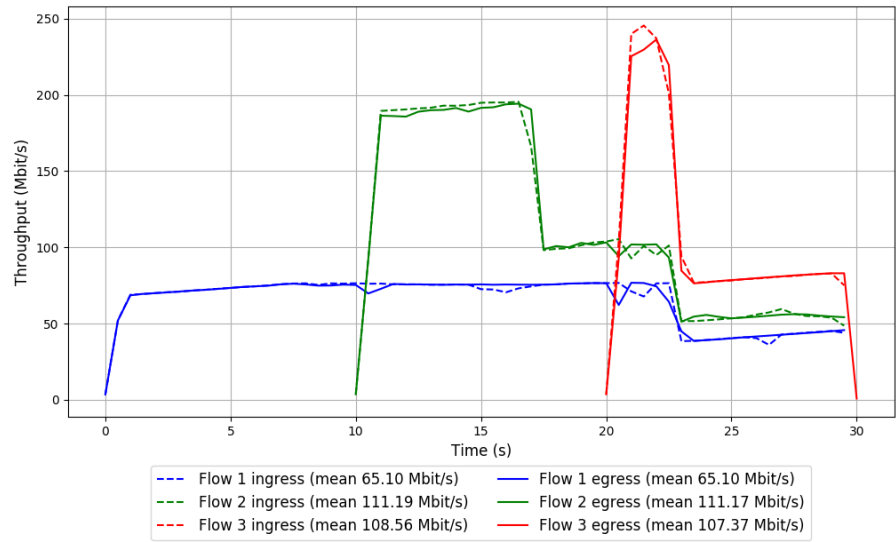
-- Flow 3:

Average throughput: 107.37 Mbit/s

95th percentile per-packet one-way delay: 61.657 ms

Loss rate: 1.11%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-26 18:35:22

End at: 2018-01-26 18:35:52

Below is generated by plot.py at 2018-01-26 23:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.93 Mbit/s

95th percentile per-packet one-way delay: 171.225 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 188.01 Mbit/s

95th percentile per-packet one-way delay: 185.333 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 140.03 Mbit/s

95th percentile per-packet one-way delay: 160.398 ms

Loss rate: 0.26%

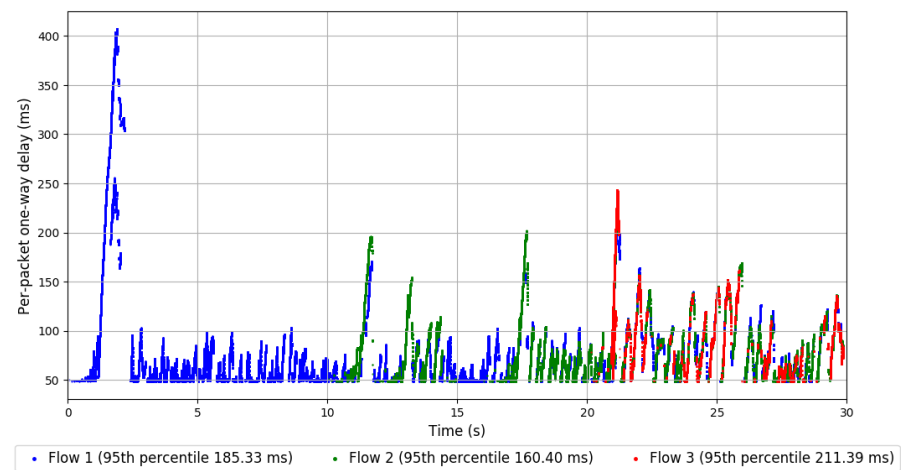
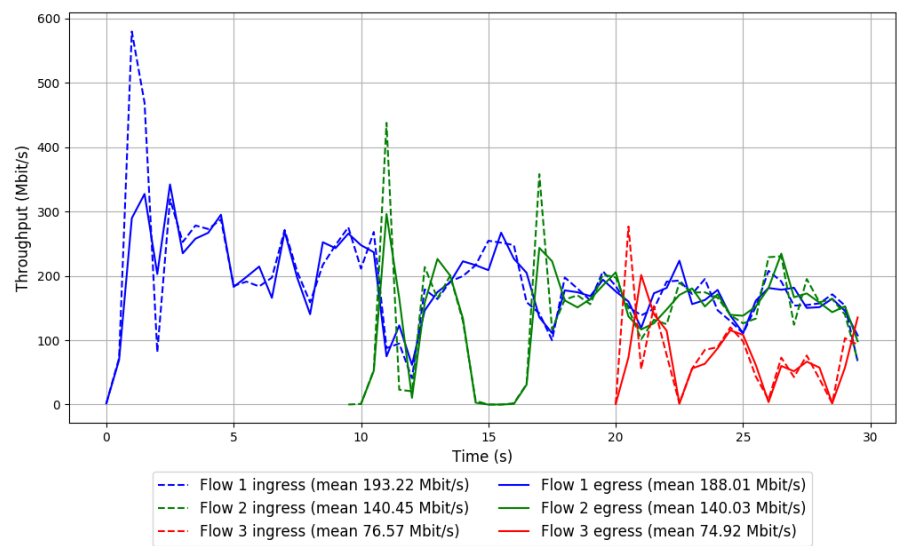
-- Flow 3:

Average throughput: 74.92 Mbit/s

95th percentile per-packet one-way delay: 211.386 ms

Loss rate: 2.37%

Run 1: Report of Verus — Data Link

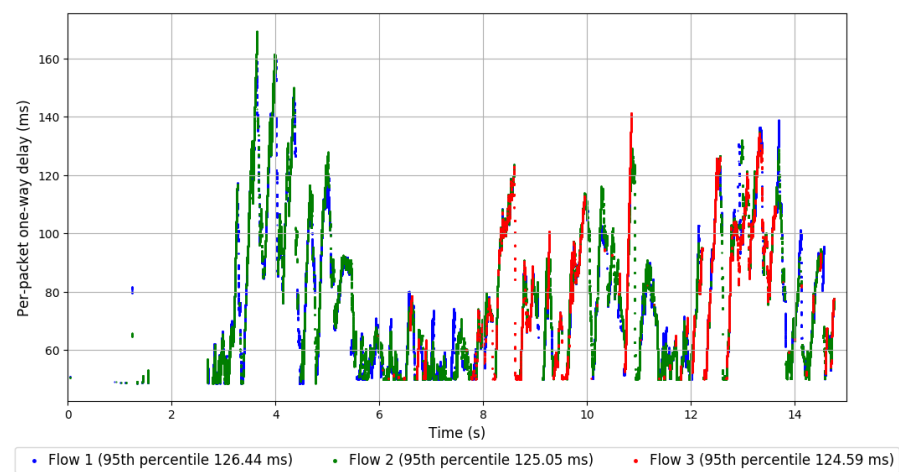
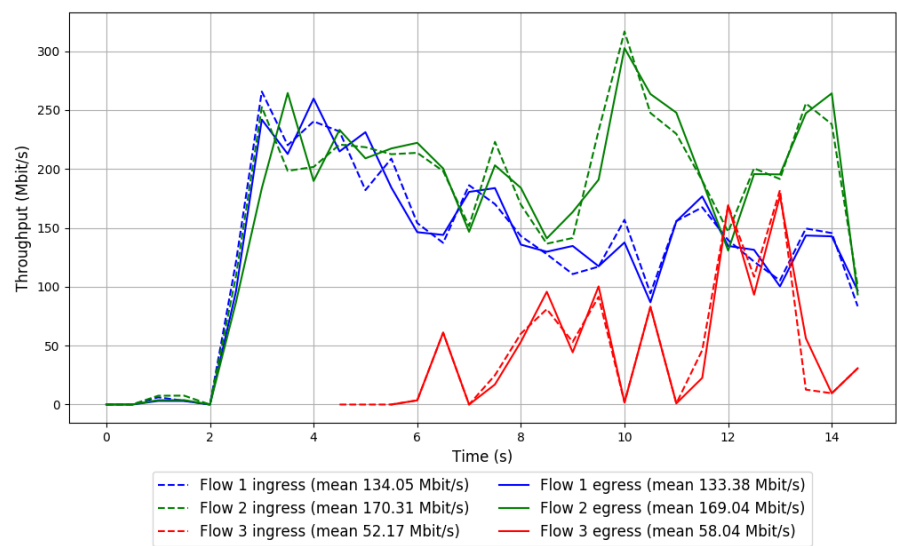


Run 2: Statistics of Verus

Start at: 2018-01-26 18:49:21

End at: 2018-01-26 18:49:51

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 19:03:06

End at: 2018-01-26 19:03:36

Below is generated by plot.py at 2018-01-26 23:05:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.04 Mbit/s

95th percentile per-packet one-way delay: 172.622 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 183.24 Mbit/s

95th percentile per-packet one-way delay: 186.576 ms

Loss rate: 2.92%

-- Flow 2:

Average throughput: 158.56 Mbit/s

95th percentile per-packet one-way delay: 164.937 ms

Loss rate: 0.02%

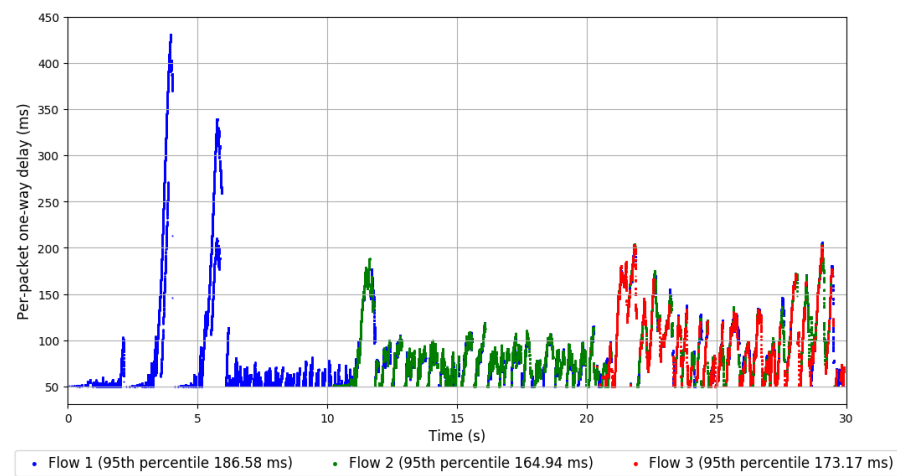
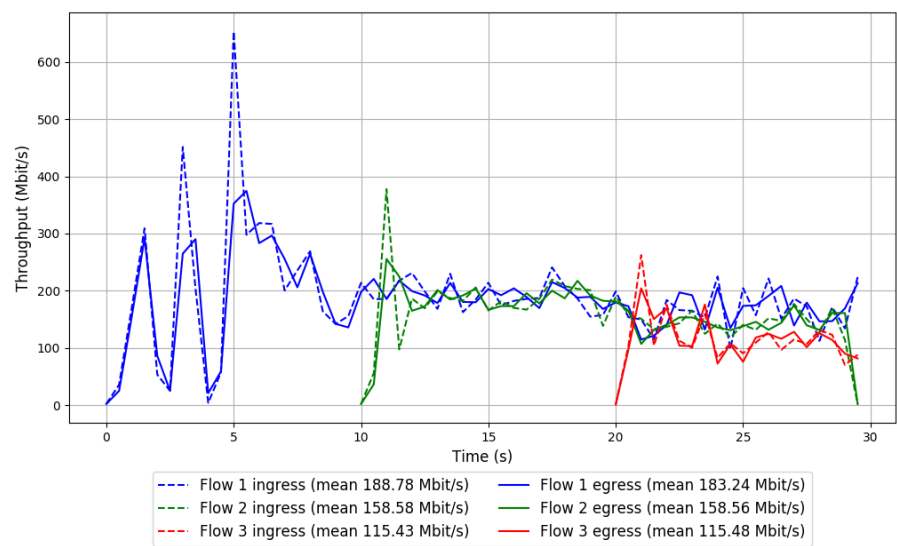
-- Flow 3:

Average throughput: 115.48 Mbit/s

95th percentile per-packet one-way delay: 173.168 ms

Loss rate: 0.35%

Run 3: Report of Verus — Data Link

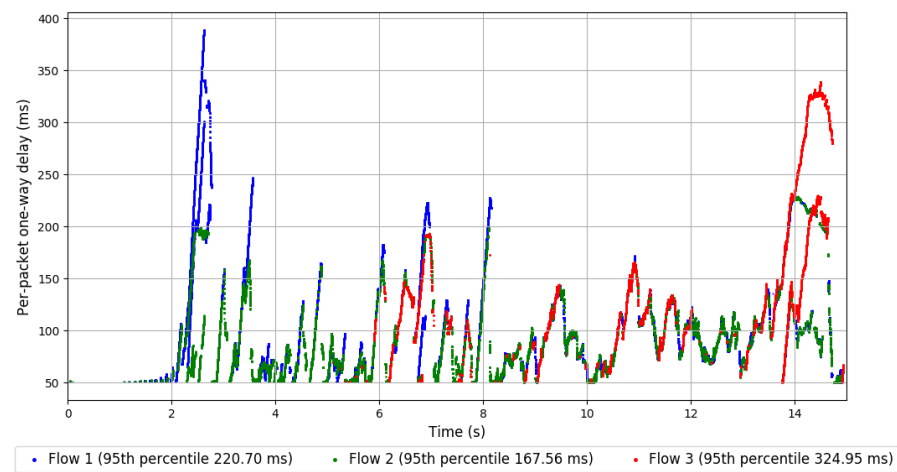
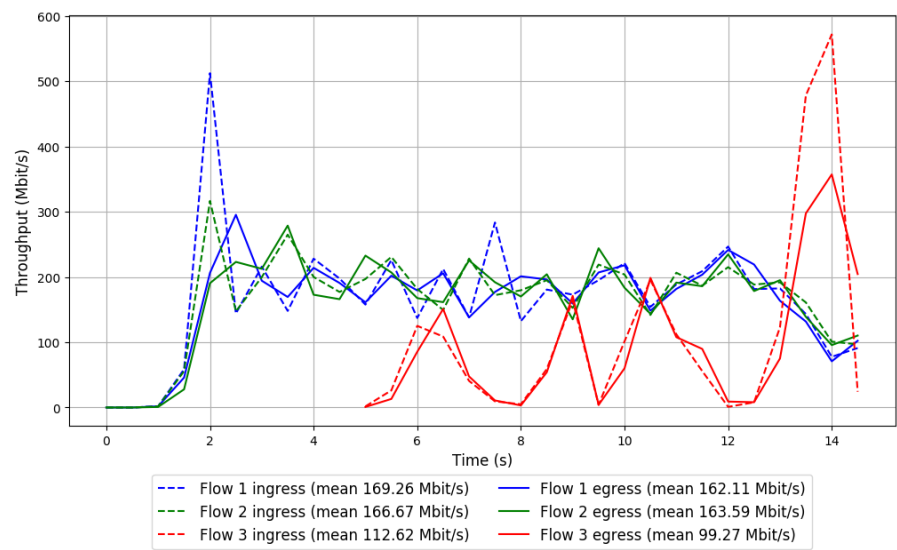


Run 4: Statistics of Verus

Start at: 2018-01-26 19:16:47

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

Run 4: Report of Verus — Data Link

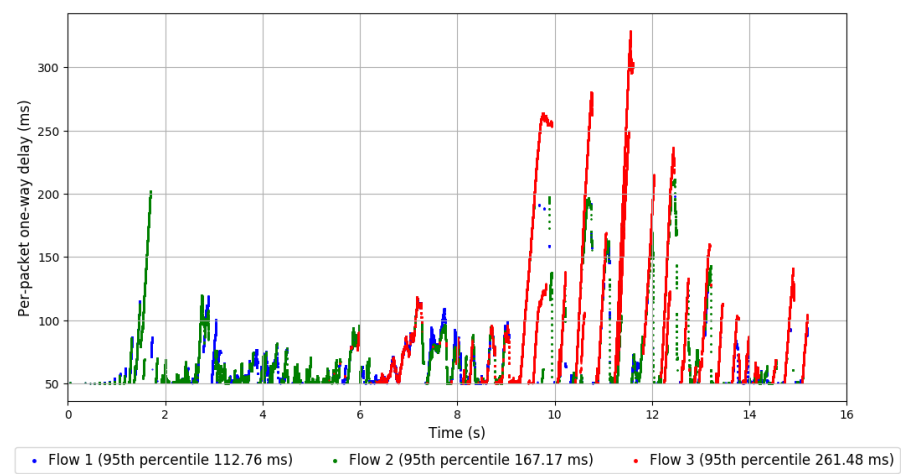
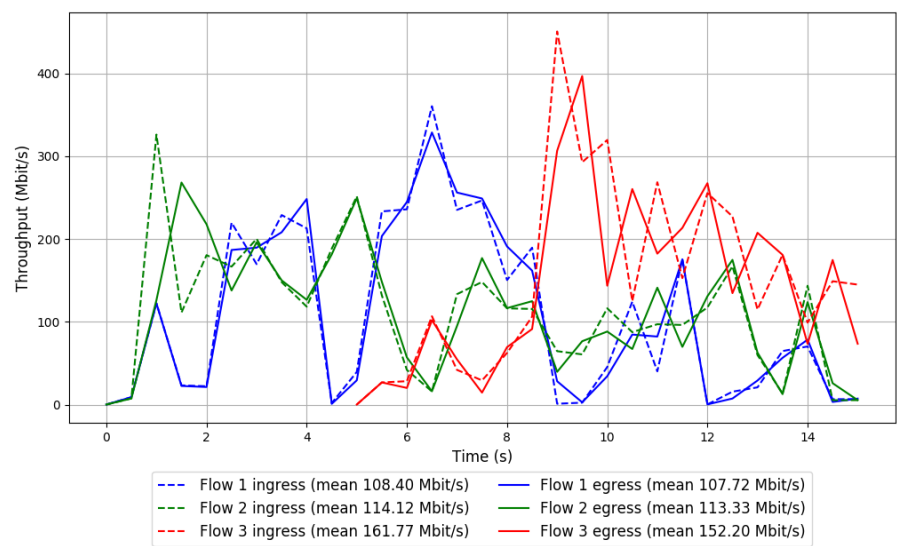


Run 5: Statistics of Verus

Start at: 2018-01-26 19:30:35

End at: 2018-01-26 19:31:05

Run 5: Report of Verus — Data Link

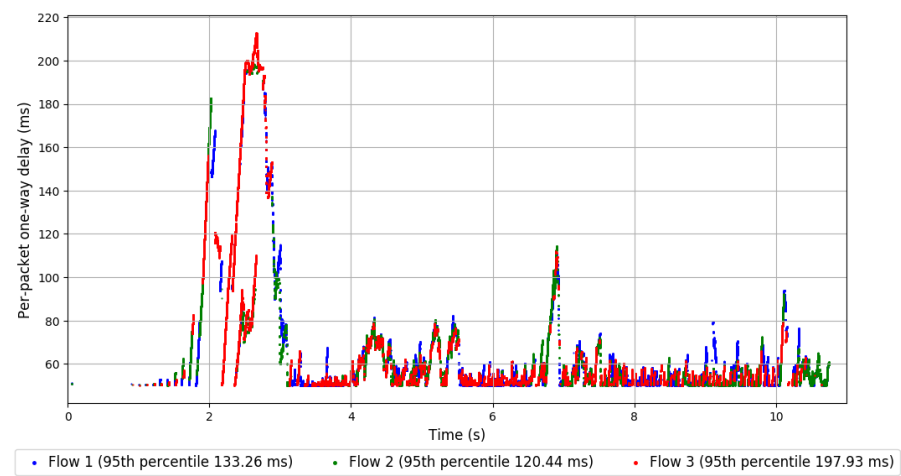
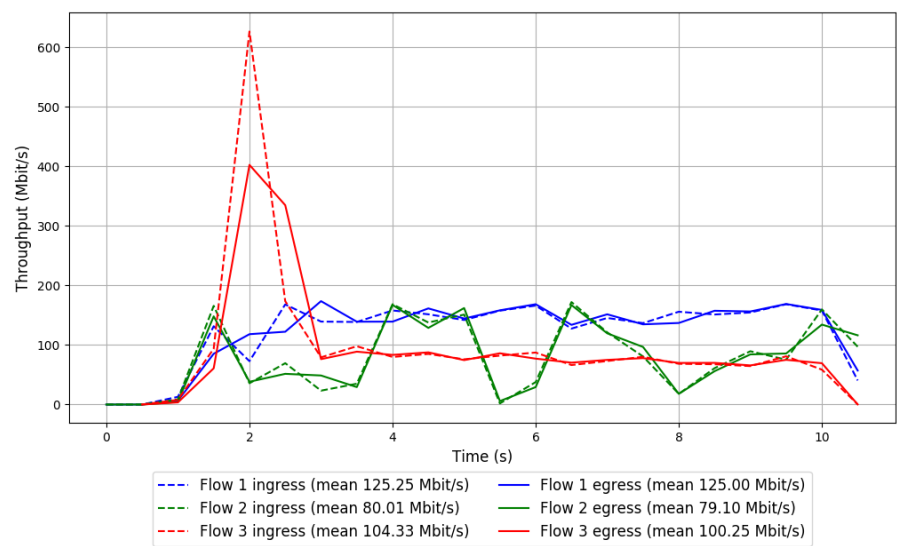


Run 6: Statistics of Verus

Start at: 2018-01-26 19:44:38

End at: 2018-01-26 19:45:08

Run 6: Report of Verus — Data Link

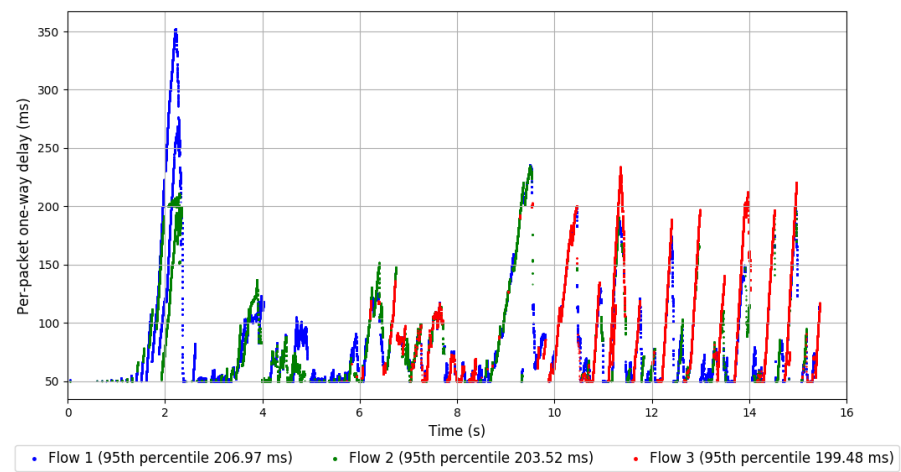
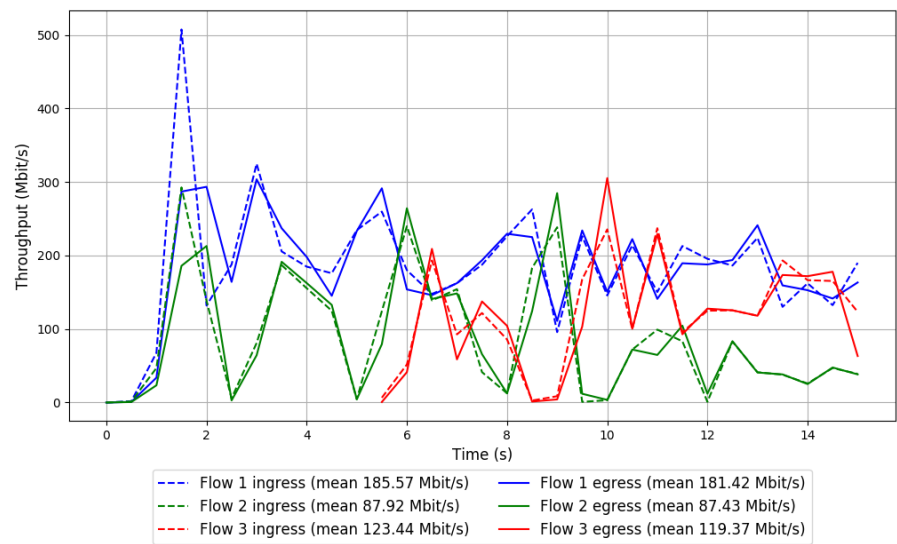


Run 7: Statistics of Verus

Start at: 2018-01-26 19:58:33

End at: 2018-01-26 19:59:03

Run 7: Report of Verus — Data Link

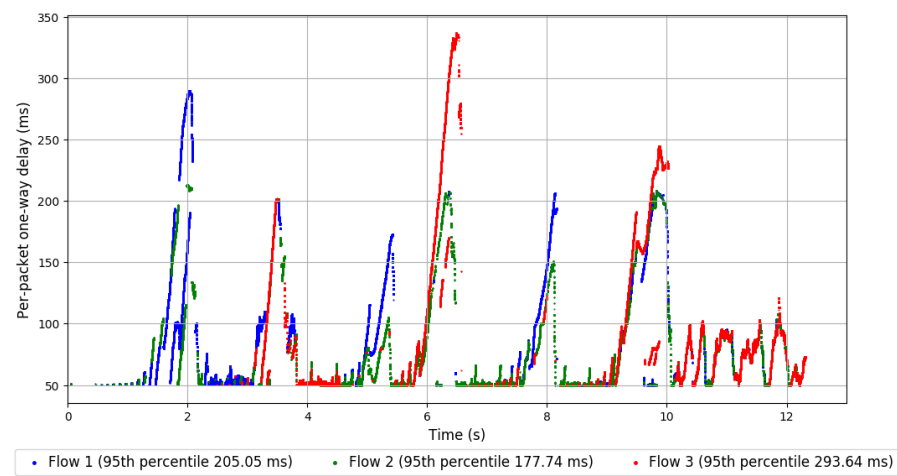
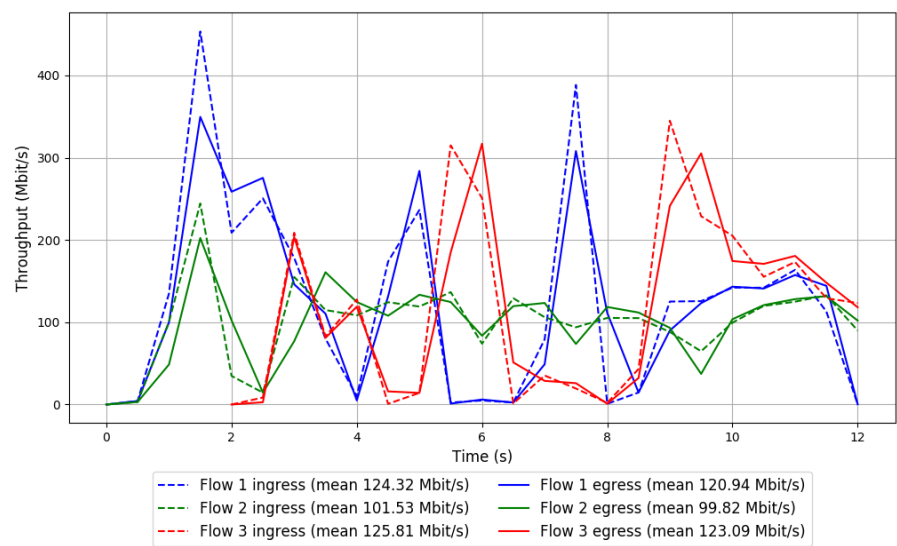


Run 8: Statistics of Verus

Start at: 2018-01-26 20:12:29

End at: 2018-01-26 20:12:59

Run 8: Report of Verus — Data Link

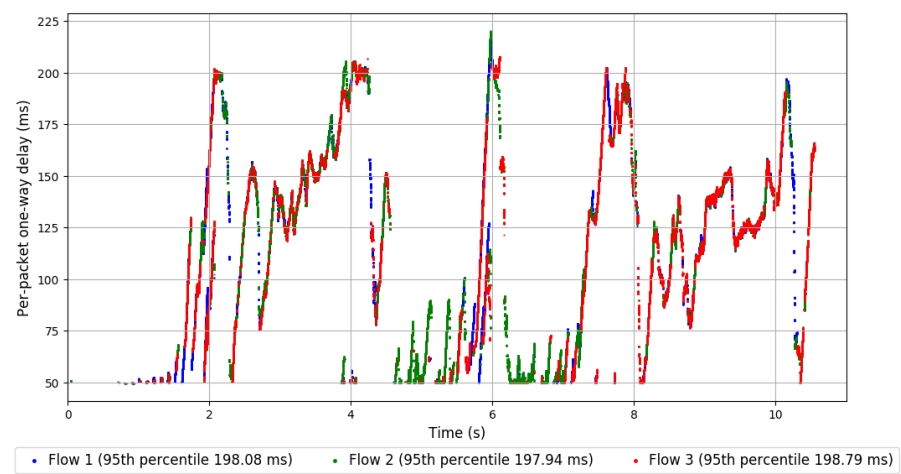
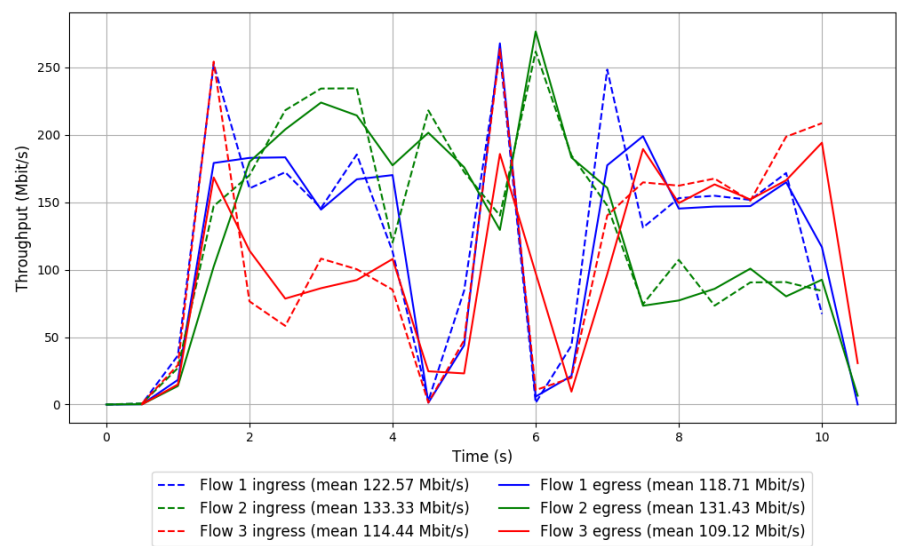


Run 9: Statistics of Verus

Start at: 2018-01-26 20:26:11

End at: 2018-01-26 20:26:41

Run 9: Report of Verus — Data Link

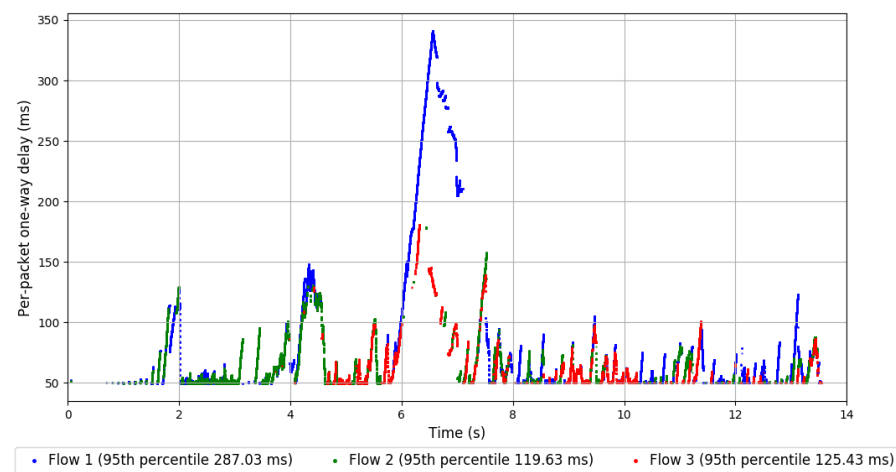
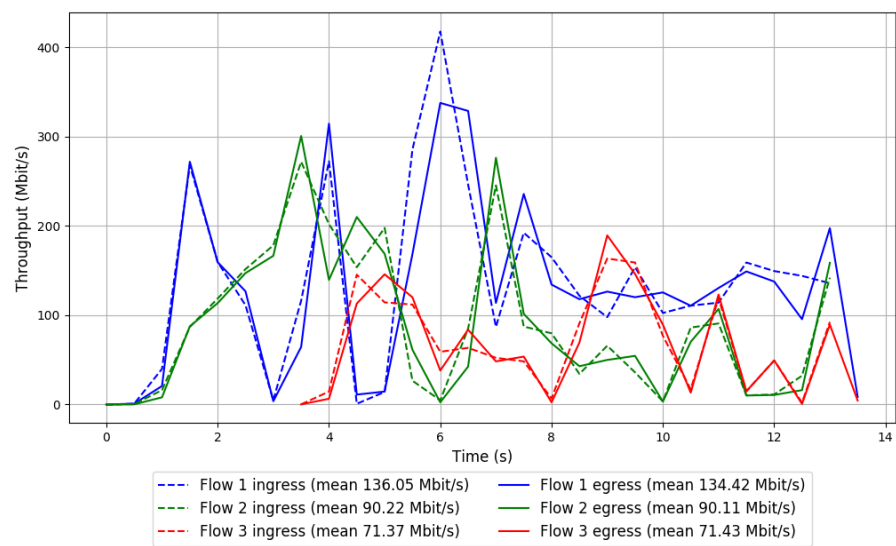


Run 10: Statistics of Verus

Start at: 2018-01-26 20:39:59

End at: 2018-01-26 20:40:29

Run 10: Report of Verus — Data Link

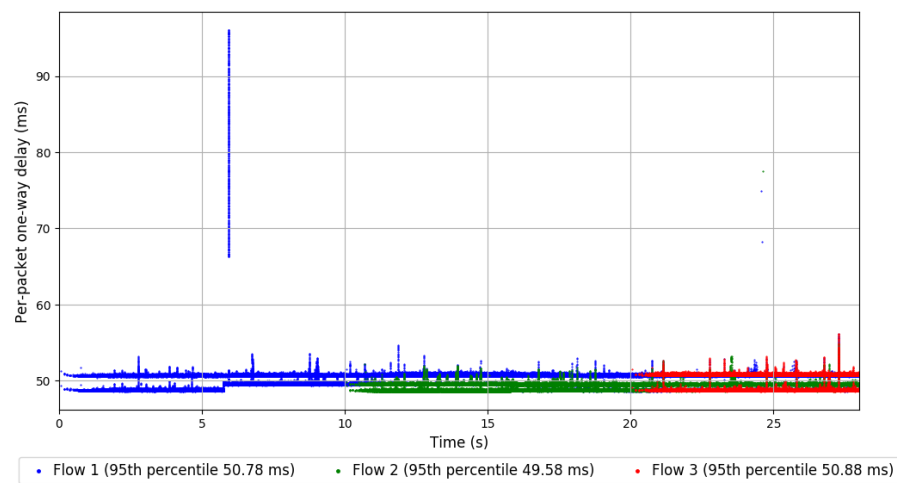
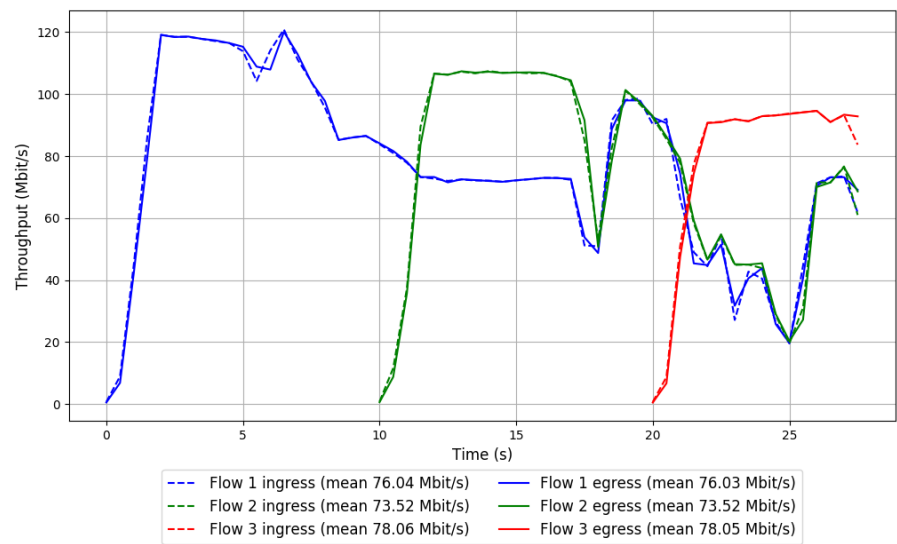


```
Run 1: Statistics of Copa

Start at: 2018-01-26 18:36:23
End at: 2018-01-26 18:36:53

# Below is generated by plot.py at 2018-01-26 23:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.41 Mbit/s
95th percentile per-packet one-way delay: 50.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.03 Mbit/s
95th percentile per-packet one-way delay: 50.784 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 73.52 Mbit/s
95th percentile per-packet one-way delay: 49.581 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.05 Mbit/s
95th percentile per-packet one-way delay: 50.882 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 18:50:13

End at: 2018-01-26 18:50:43

Below is generated by plot.py at 2018-01-26 23:08:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.55 Mbit/s

95th percentile per-packet one-way delay: 50.687 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 50.257 ms

Loss rate: 0.00%

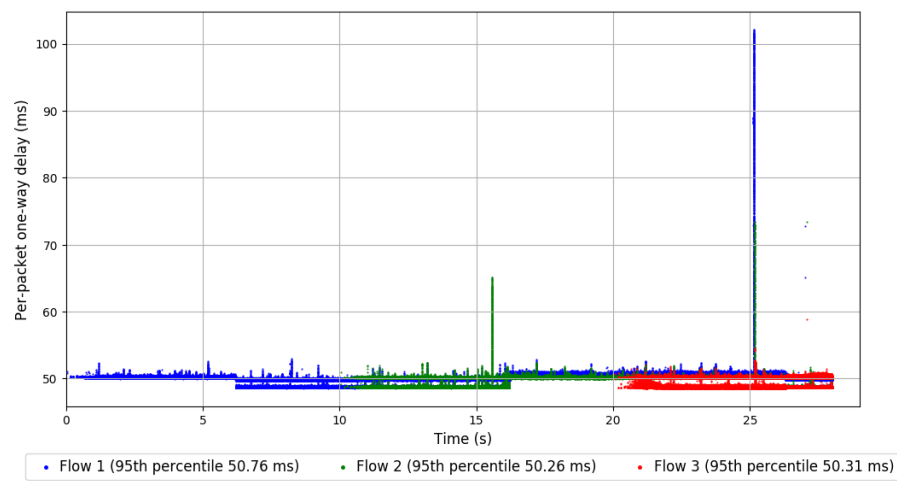
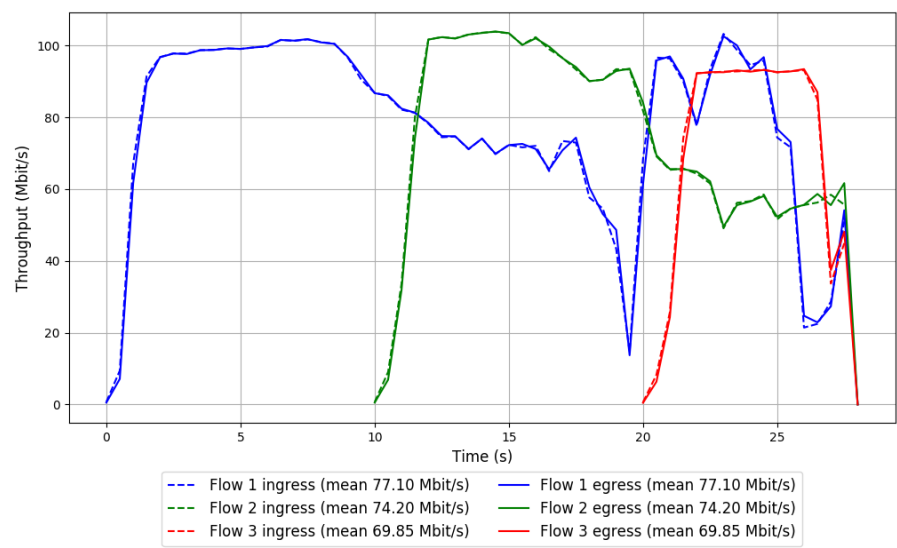
-- Flow 3:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 50.309 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 19:04:09

End at: 2018-01-26 19:04:39

Below is generated by plot.py at 2018-01-26 23:08:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.75 Mbit/s

95th percentile per-packet one-way delay: 50.817 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 50.789 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.00%

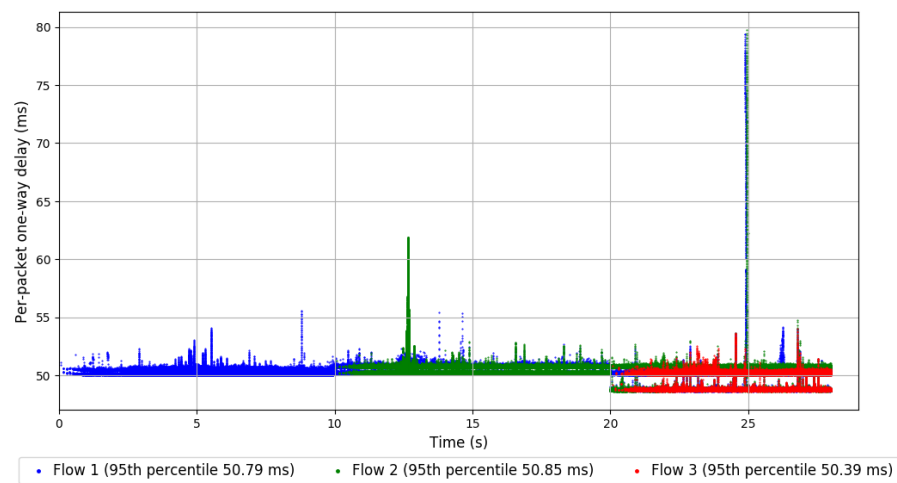
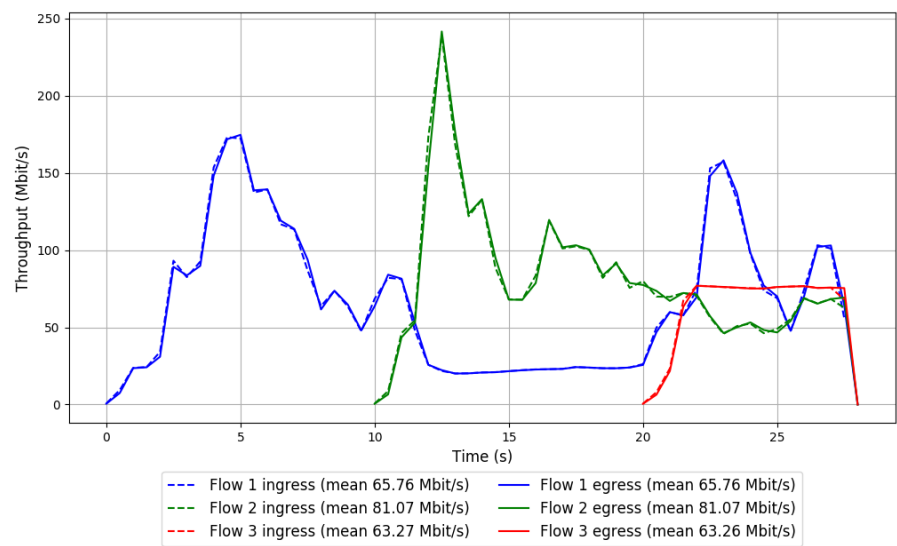
-- Flow 3:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 50.390 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 19:17:41

End at: 2018-01-26 19:18:11

Below is generated by plot.py at 2018-01-26 23:09:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.15 Mbit/s

95th percentile per-packet one-way delay: 50.589 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 81.61 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.07 Mbit/s

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

Loss rate: 0.13%

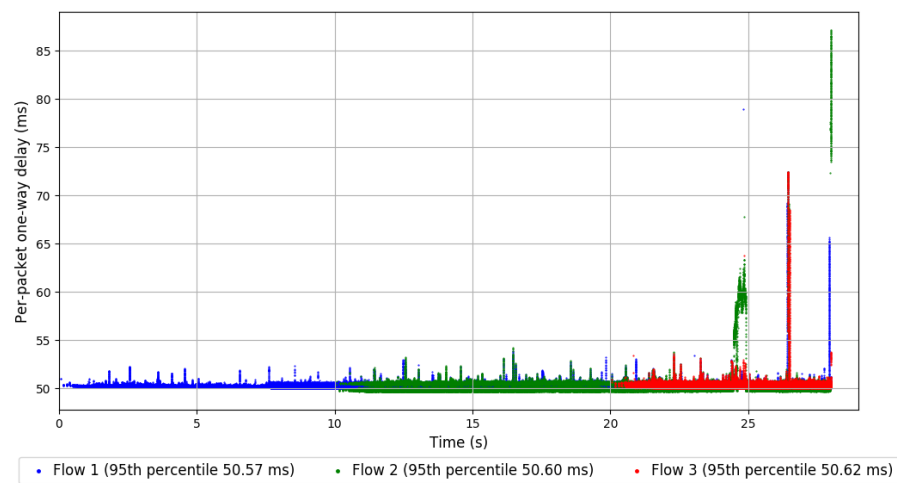
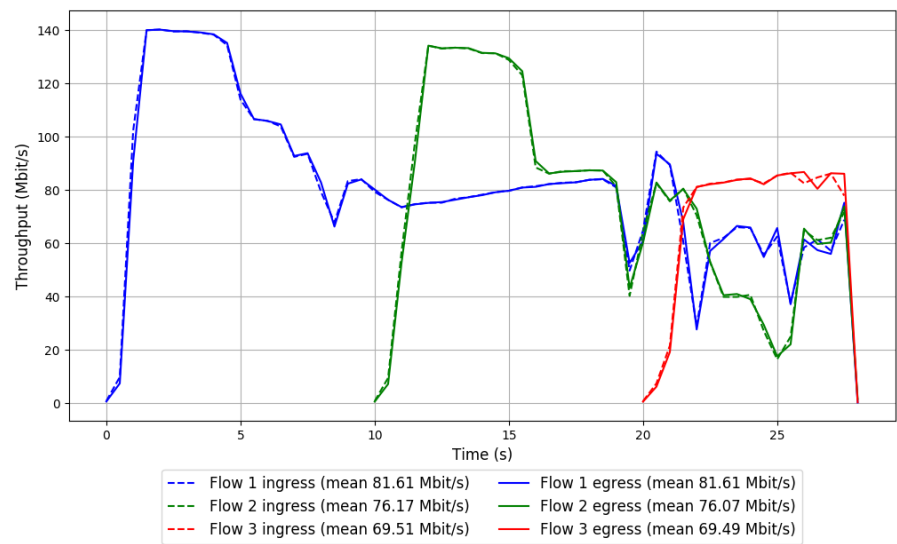
-- Flow 3:

Average throughput: 69.49 Mbit/s

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

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 19:31:27

End at: 2018-01-26 19:31:57

Below is generated by plot.py at 2018-01-26 23:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.29 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 50.701 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 50.726 ms

Loss rate: 0.00%

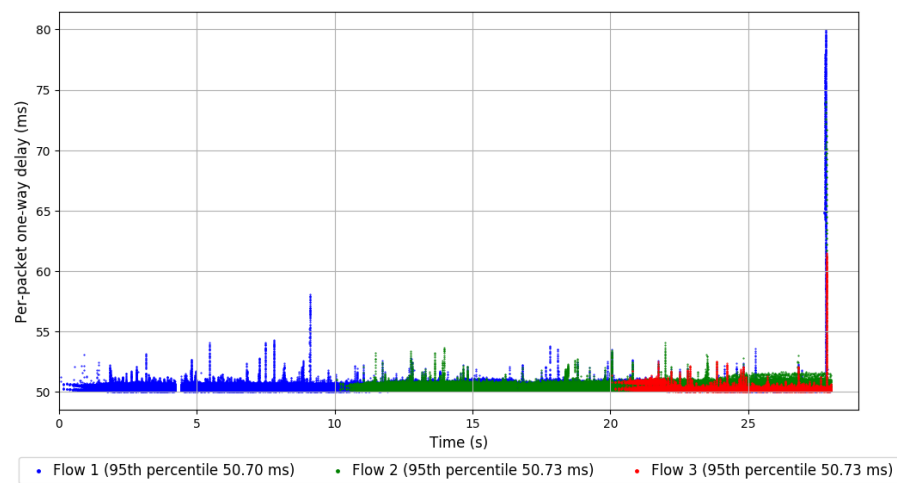
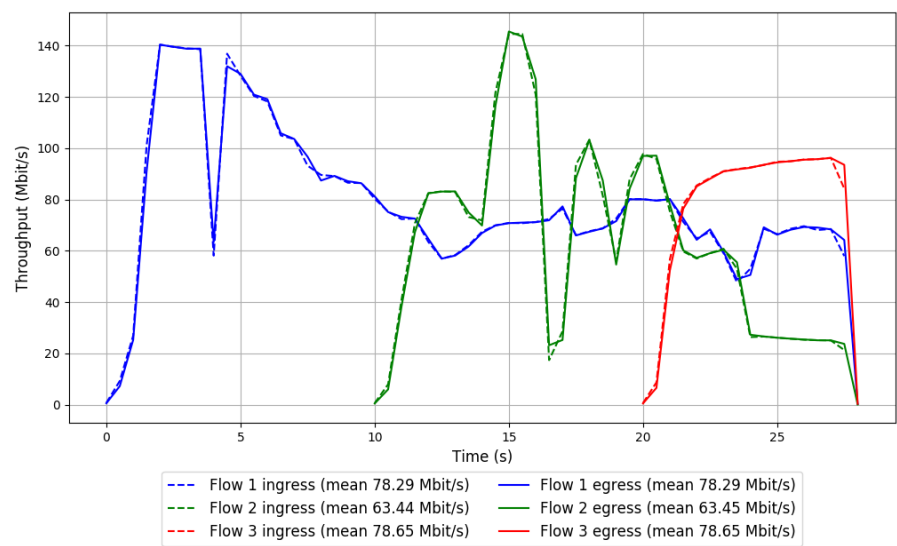
-- Flow 3:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 50.725 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 19:45:26

End at: 2018-01-26 19:45:56

Below is generated by plot.py at 2018-01-26 23:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.35 Mbit/s

95th percentile per-packet one-way delay: 50.280 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.01 Mbit/s

95th percentile per-packet one-way delay: 50.275 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 50.303 ms

Loss rate: 0.00%

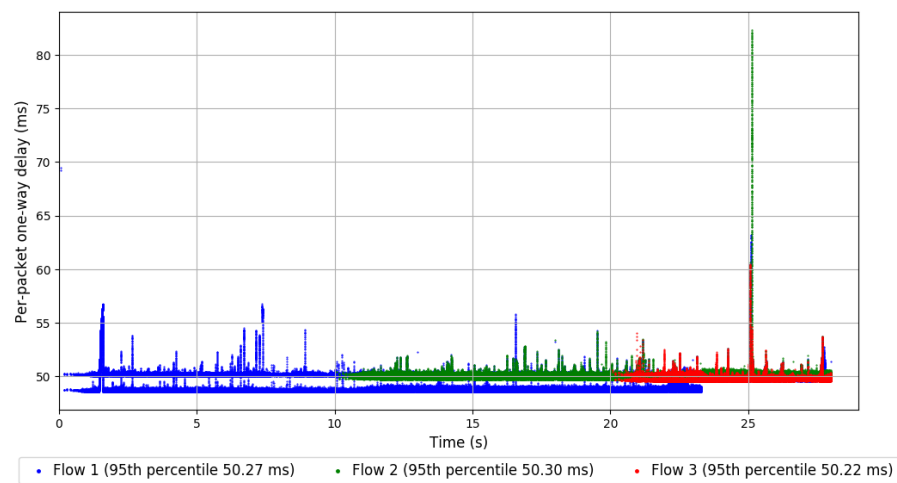
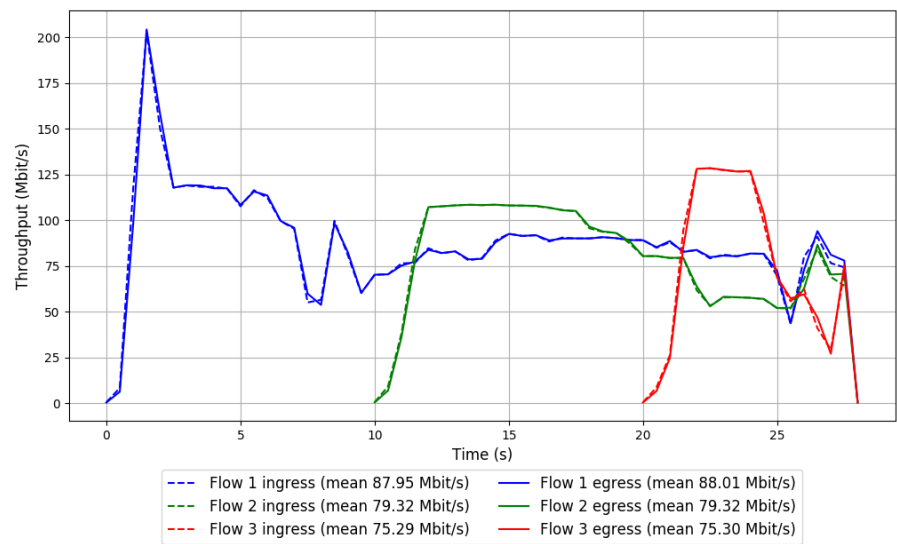
-- Flow 3:

Average throughput: 75.30 Mbit/s

95th percentile per-packet one-way delay: 50.220 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 19:59:25

End at: 2018-01-26 19:59:55

Below is generated by plot.py at 2018-01-26 23:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.95 Mbit/s

95th percentile per-packet one-way delay: 50.360 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 50.365 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 50.401 ms

Loss rate: 0.00%

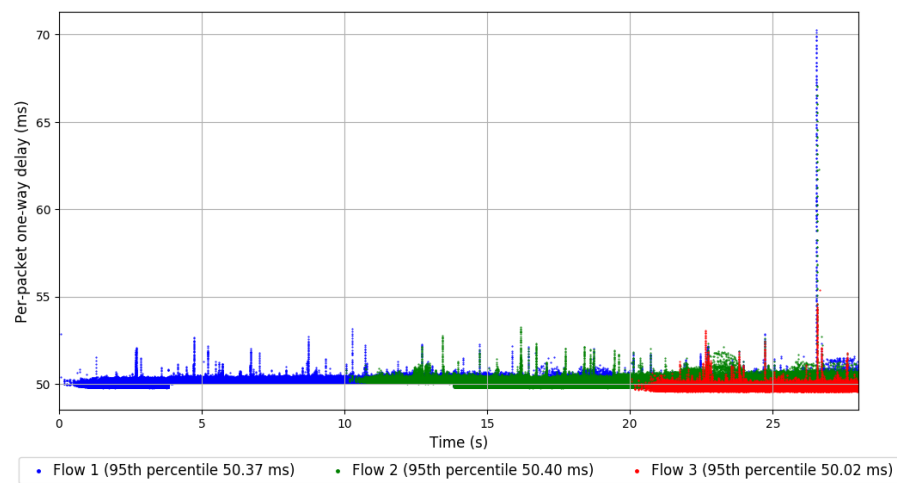
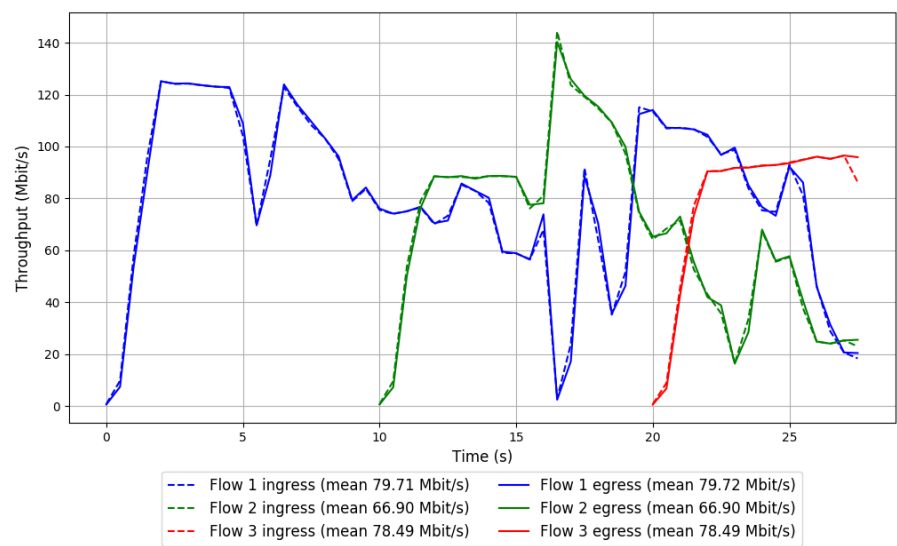
-- Flow 3:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 50.021 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 20:13:19

End at: 2018-01-26 20:13:49

Below is generated by plot.py at 2018-01-26 23:10:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.17 Mbit/s

95th percentile per-packet one-way delay: 50.170 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.48 Mbit/s

95th percentile per-packet one-way delay: 50.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 50.056 ms

Loss rate: 0.00%

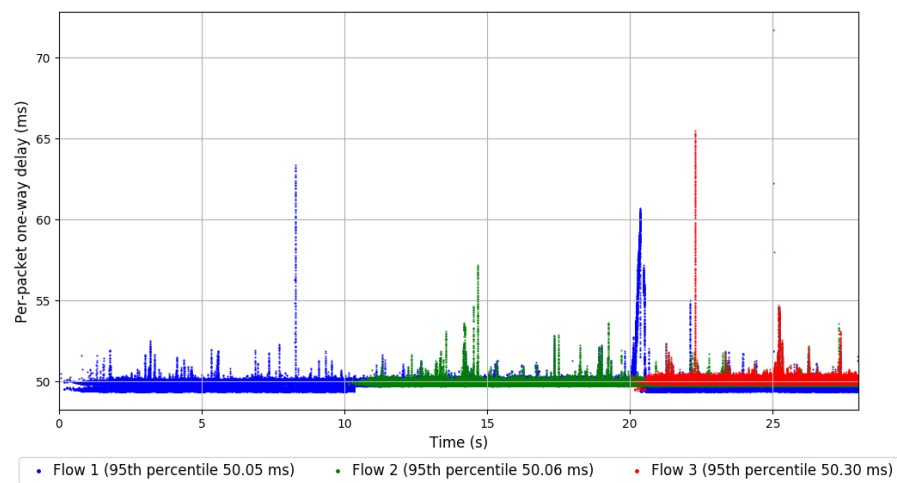
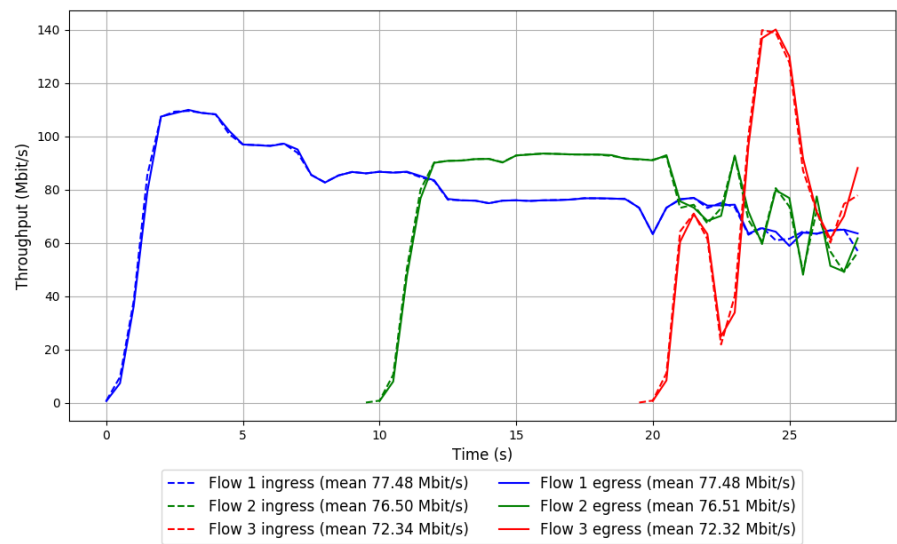
-- Flow 3:

Average throughput: 72.32 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 20:26:59

End at: 2018-01-26 20:27:29

Below is generated by plot.py at 2018-01-26 23:12:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.06 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.20 Mbit/s

95th percentile per-packet one-way delay: 50.039 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

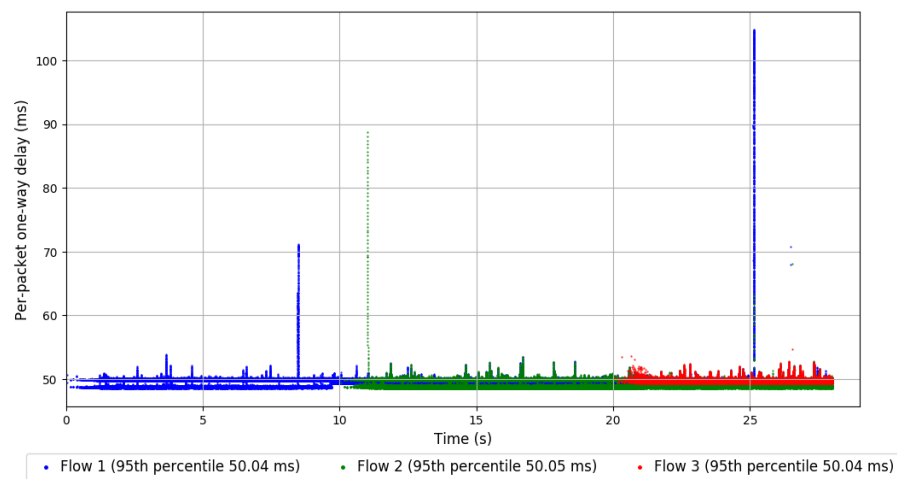
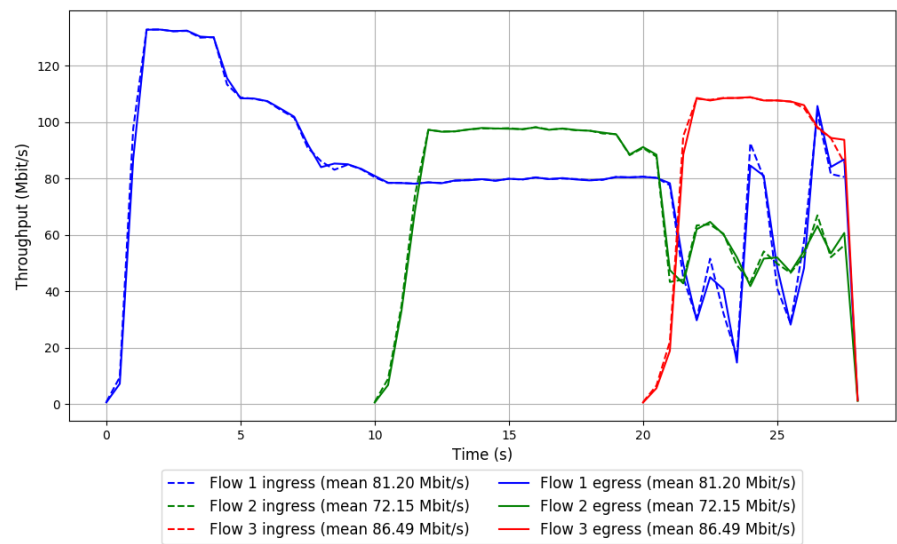
-- Flow 3:

Average throughput: 86.49 Mbit/s

95th percentile per-packet one-way delay: 50.044 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 20:40:48

End at: 2018-01-26 20:41:18

Below is generated by plot.py at 2018-01-26 23:13:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.98 Mbit/s

95th percentile per-packet one-way delay: 50.682 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.84 Mbit/s

95th percentile per-packet one-way delay: 49.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.54 Mbit/s

95th percentile per-packet one-way delay: 50.747 ms

Loss rate: 0.00%

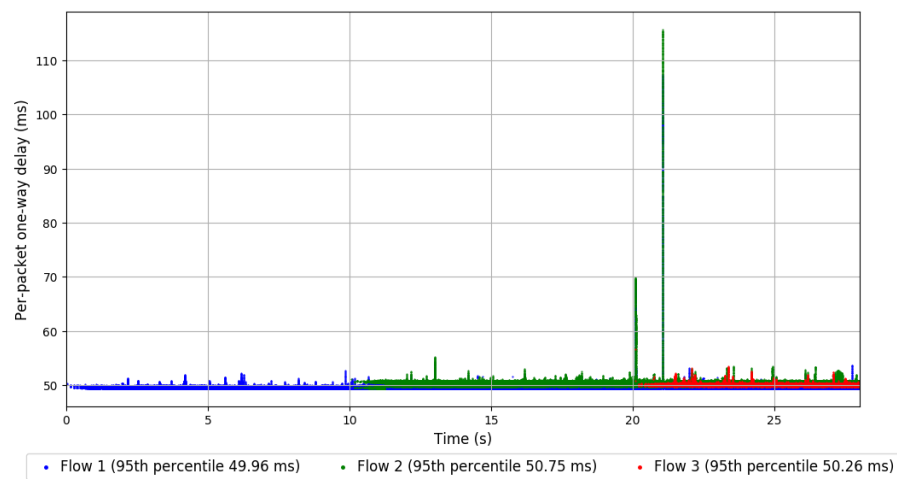
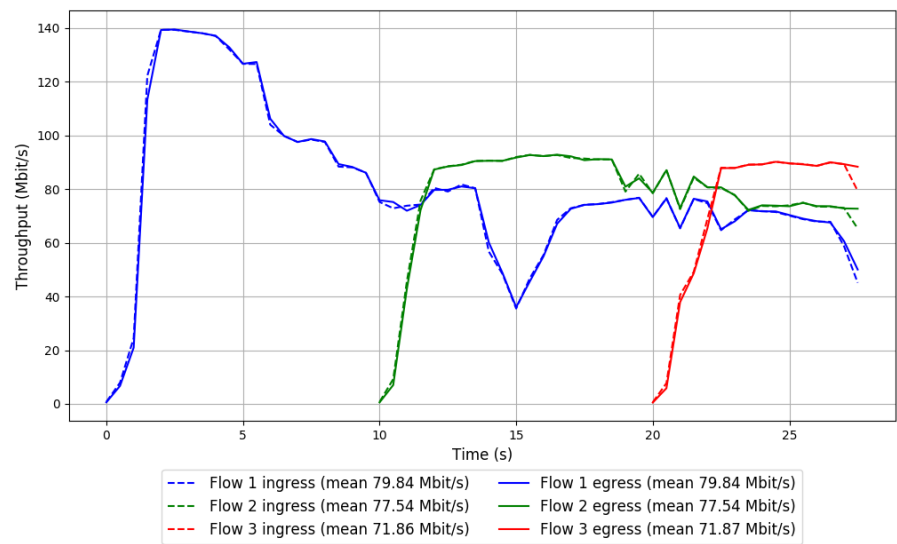
-- Flow 3:

Average throughput: 71.87 Mbit/s

95th percentile per-packet one-way delay: 50.262 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

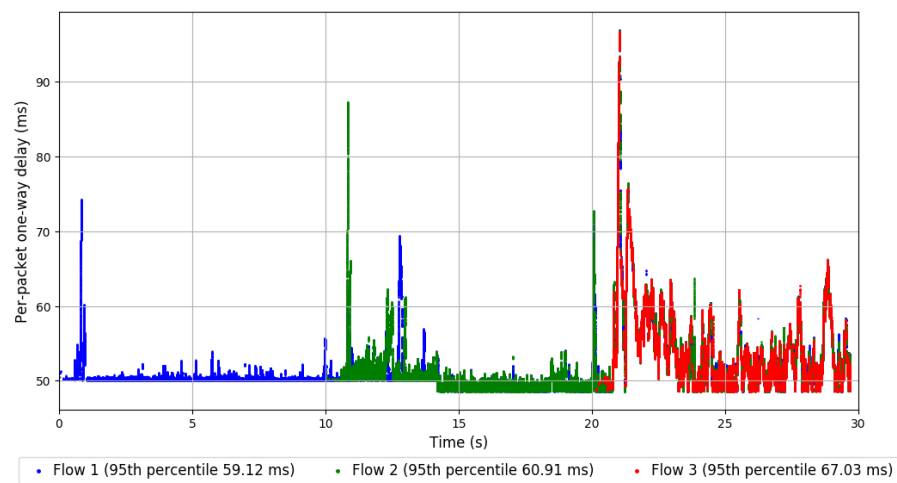
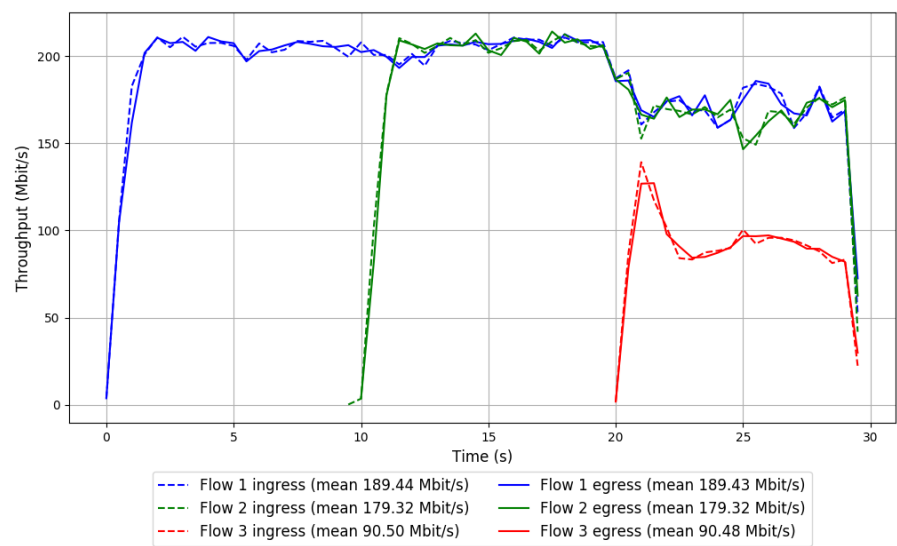


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 18:48:17
End at: 2018-01-26 18:48:47

# Below is generated by plot.py at 2018-01-26 23:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.41 Mbit/s
95th percentile per-packet one-way delay: 60.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.43 Mbit/s
95th percentile per-packet one-way delay: 59.118 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 179.32 Mbit/s
95th percentile per-packet one-way delay: 60.909 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 67.029 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo-2-256 — Data Link



Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 19:02:03

End at: 2018-01-26 19:02:33

Below is generated by plot.py at 2018-01-26 23:14:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.26 Mbit/s

95th percentile per-packet one-way delay: 55.103 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.78 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.62 Mbit/s

95th percentile per-packet one-way delay: 55.033 ms

Loss rate: 0.00%

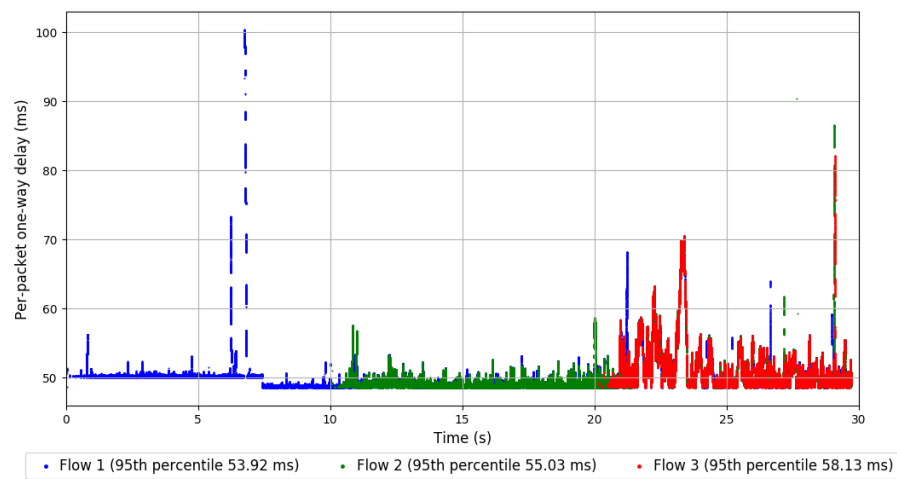
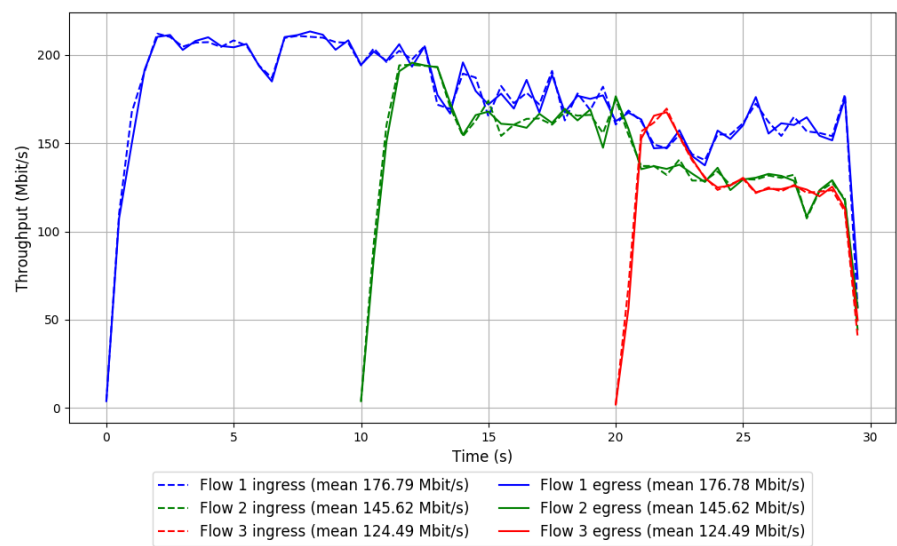
-- Flow 3:

Average throughput: 124.49 Mbit/s

95th percentile per-packet one-way delay: 58.135 ms

Loss rate: 0.00%

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 19:15:45

End at: 2018-01-26 19:16:15

Below is generated by plot.py at 2018-01-26 23:14:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.84 Mbit/s

95th percentile per-packet one-way delay: 60.252 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 180.00 Mbit/s

95th percentile per-packet one-way delay: 57.988 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 168.69 Mbit/s

95th percentile per-packet one-way delay: 60.920 ms

Loss rate: 0.03%

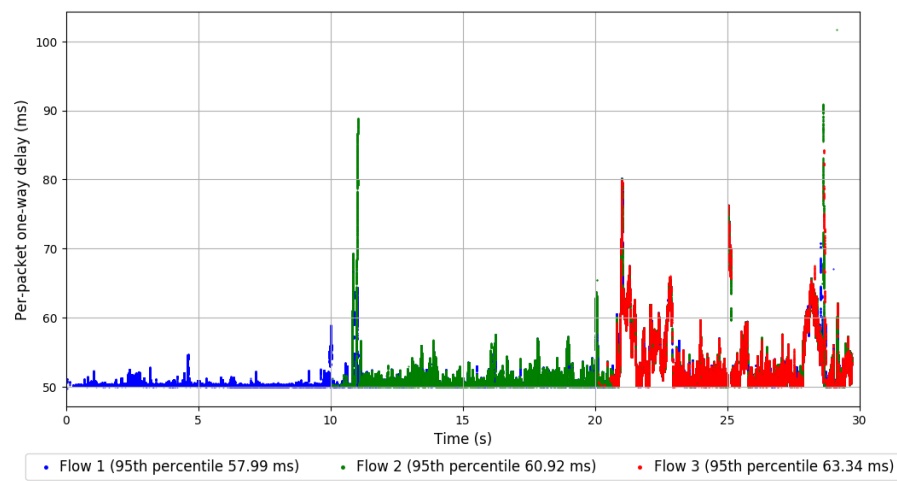
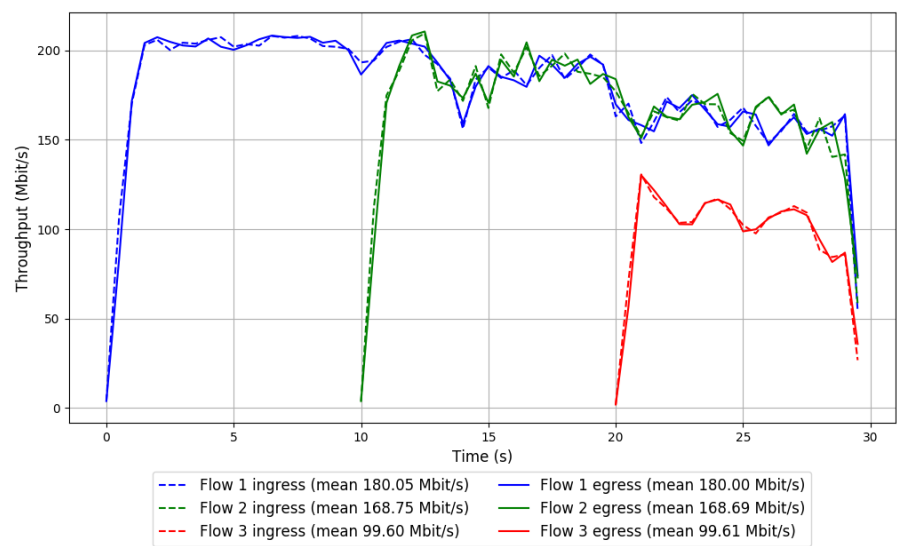
-- Flow 3:

Average throughput: 99.61 Mbit/s

95th percentile per-packet one-way delay: 63.343 ms

Loss rate: 0.05%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 19:29:32

End at: 2018-01-26 19:30:02

Below is generated by plot.py at 2018-01-26 23:15:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.19 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 182.14 Mbit/s

95th percentile per-packet one-way delay: 62.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.96 Mbit/s

95th percentile per-packet one-way delay: 65.087 ms

Loss rate: 0.00%

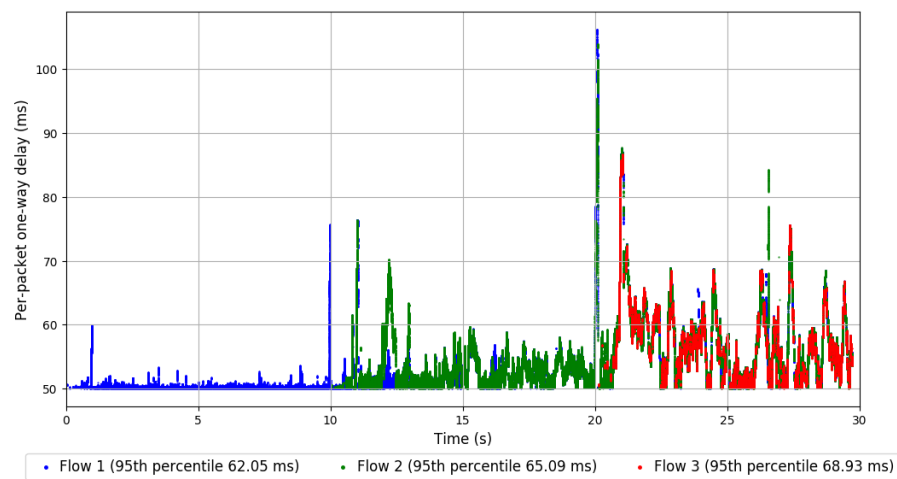
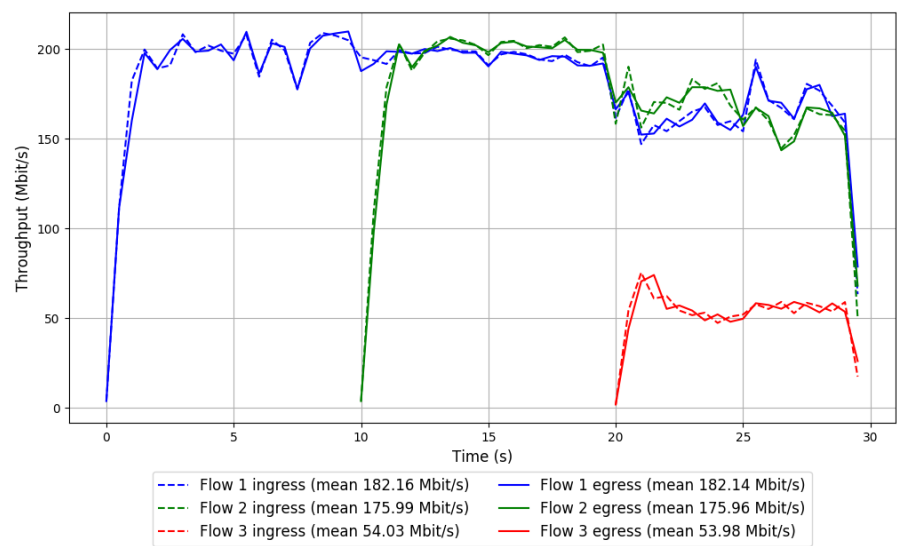
-- Flow 3:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 68.926 ms

Loss rate: 0.06%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 19:43:36

End at: 2018-01-26 19:44:06

Below is generated by plot.py at 2018-01-26 23:15:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.52 Mbit/s

95th percentile per-packet one-way delay: 61.403 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 180.67 Mbit/s

95th percentile per-packet one-way delay: 59.396 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 178.45 Mbit/s

95th percentile per-packet one-way delay: 62.286 ms

Loss rate: 0.02%

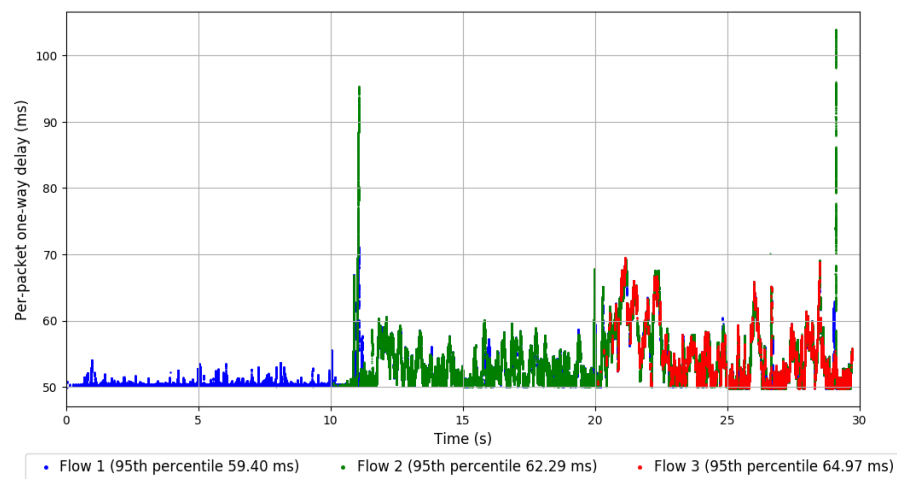
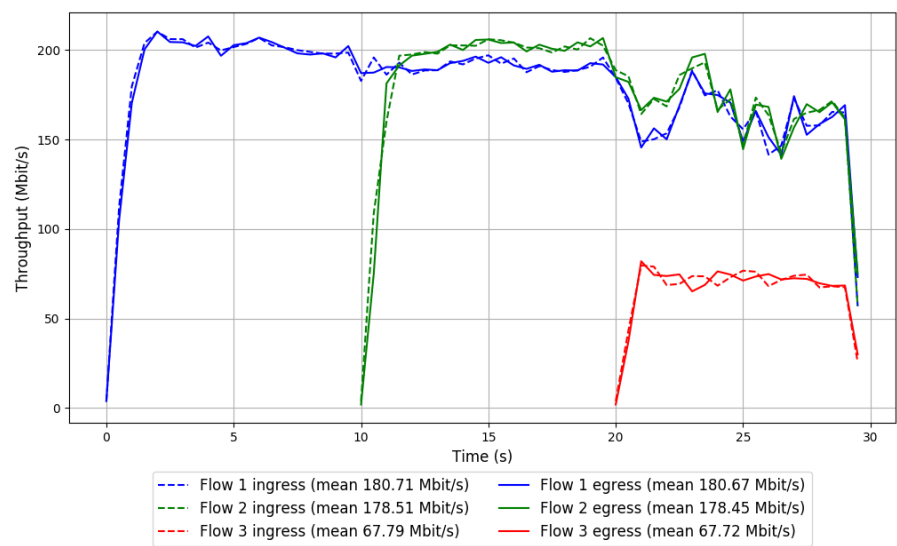
-- Flow 3:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 64.966 ms

Loss rate: 0.08%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 19:57:29

End at: 2018-01-26 19:57:59

Below is generated by plot.py at 2018-01-26 23:16:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.40 Mbit/s

95th percentile per-packet one-way delay: 61.025 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 189.31 Mbit/s

95th percentile per-packet one-way delay: 59.883 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 176.93 Mbit/s

95th percentile per-packet one-way delay: 61.085 ms

Loss rate: 0.06%

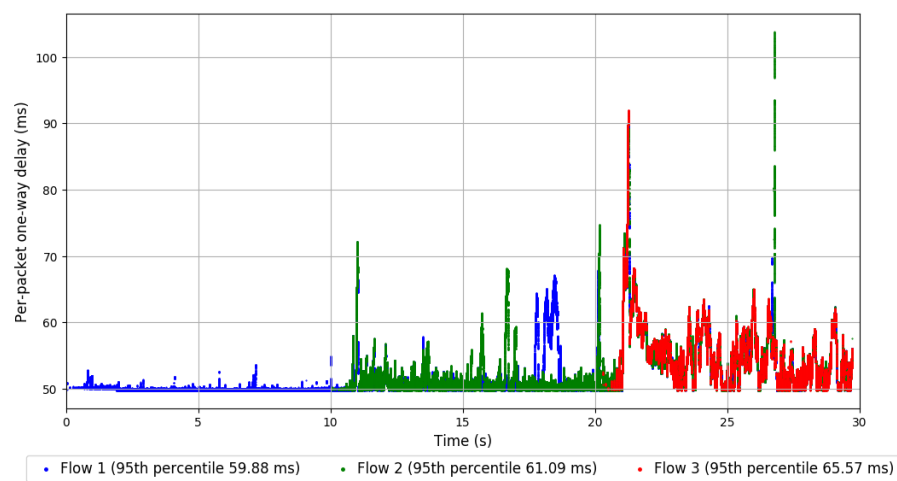
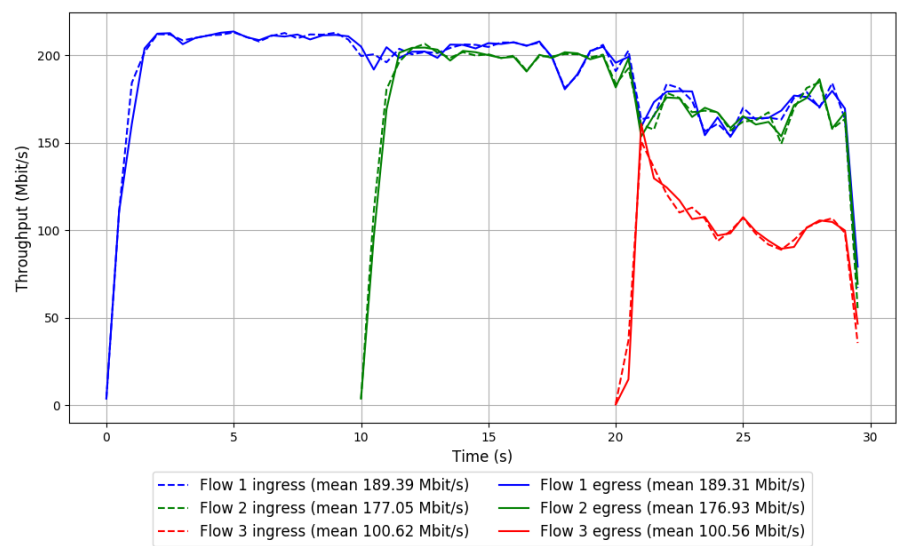
-- Flow 3:

Average throughput: 100.56 Mbit/s

95th percentile per-packet one-way delay: 65.573 ms

Loss rate: 0.01%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 20:11:26

End at: 2018-01-26 20:11:56

Below is generated by plot.py at 2018-01-26 23:18:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.25 Mbit/s

95th percentile per-packet one-way delay: 61.748 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 181.68 Mbit/s

95th percentile per-packet one-way delay: 60.525 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 173.36 Mbit/s

95th percentile per-packet one-way delay: 62.365 ms

Loss rate: 0.01%

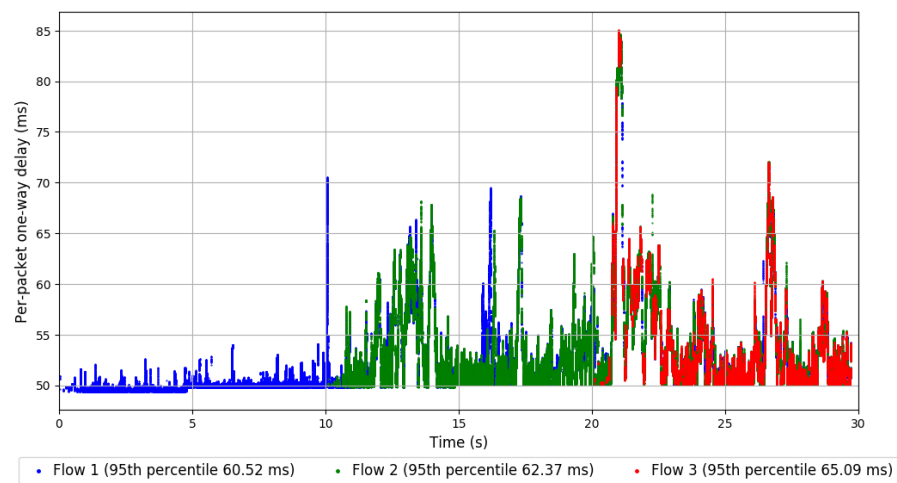
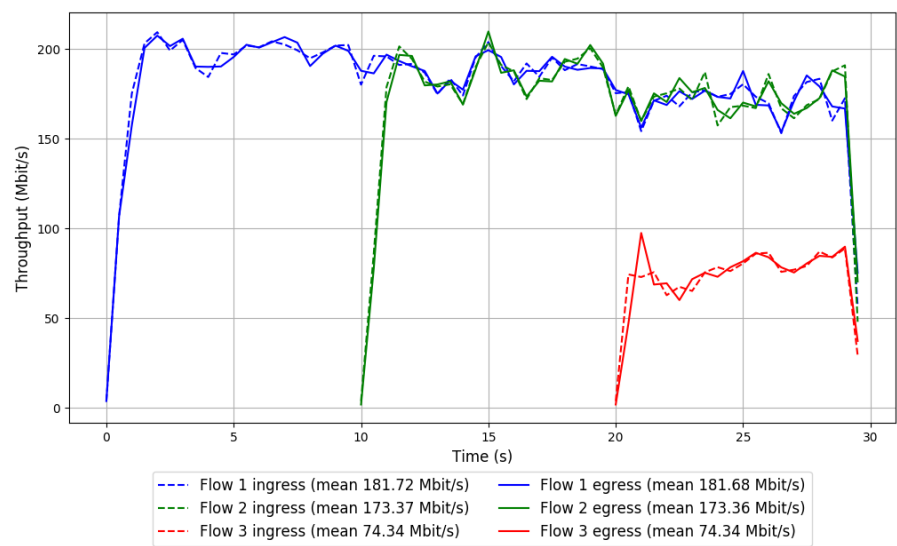
-- Flow 3:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 65.095 ms

Loss rate: 0.03%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 20:25:08

End at: 2018-01-26 20:25:38

Below is generated by plot.py at 2018-01-26 23:18:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.09 Mbit/s

95th percentile per-packet one-way delay: 62.964 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 178.35 Mbit/s

95th percentile per-packet one-way delay: 61.460 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 173.49 Mbit/s

95th percentile per-packet one-way delay: 63.110 ms

Loss rate: 0.03%

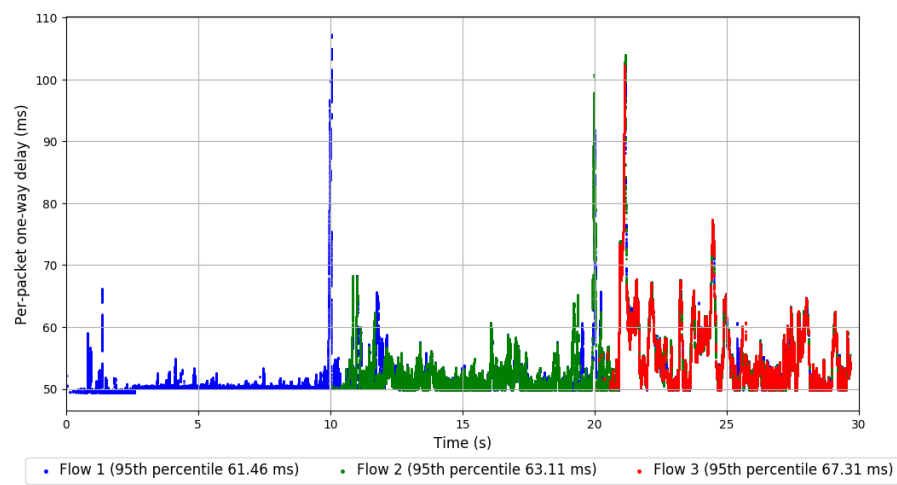
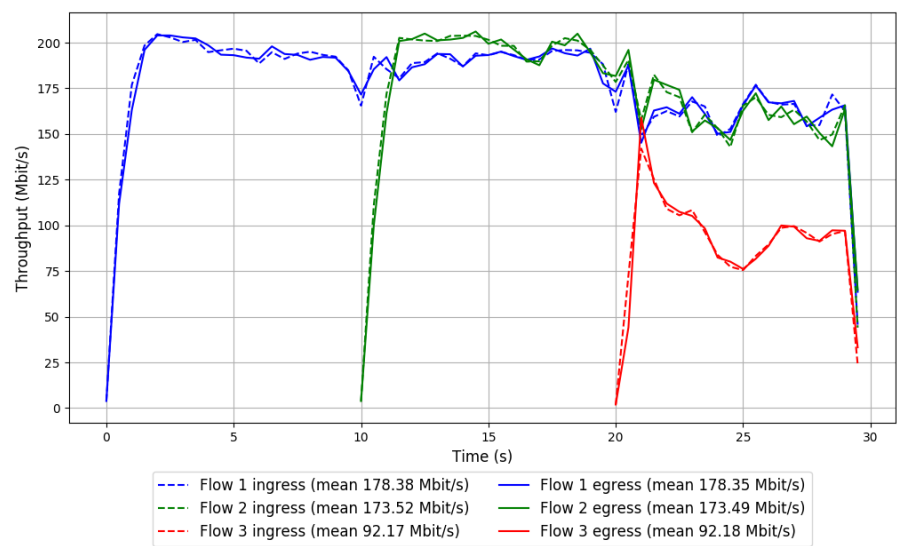
-- Flow 3:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 67.314 ms

Loss rate: 0.02%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 20:38:56

End at: 2018-01-26 20:39:26

Below is generated by plot.py at 2018-01-26 23:20:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.31 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.66 Mbit/s

95th percentile per-packet one-way delay: 62.450 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 64.732 ms

Loss rate: 0.00%

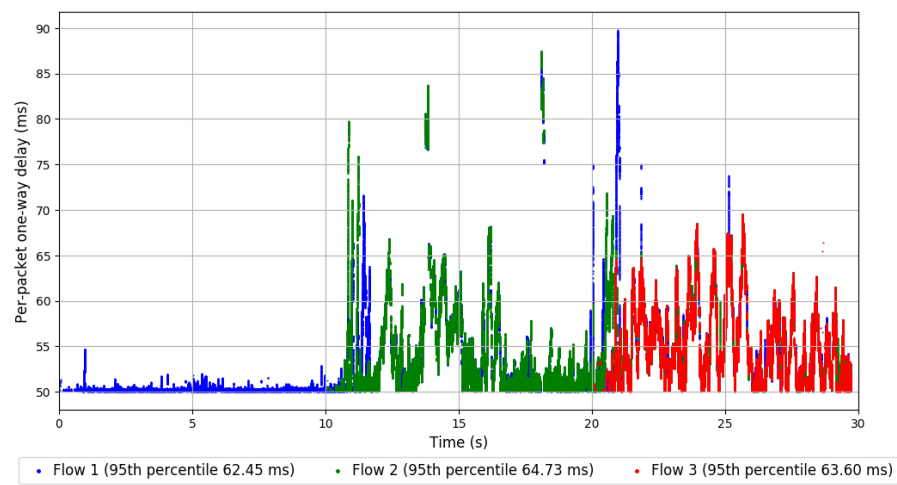
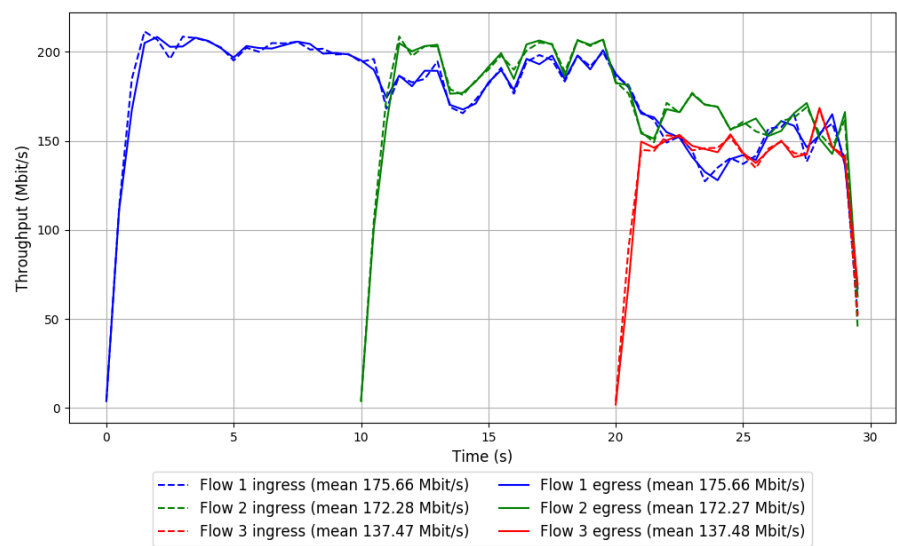
-- Flow 3:

Average throughput: 137.48 Mbit/s

95th percentile per-packet one-way delay: 63.604 ms

Loss rate: 0.00%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 20:52:49

End at: 2018-01-26 20:53:19

Below is generated by plot.py at 2018-01-26 23:20:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.14 Mbit/s

95th percentile per-packet one-way delay: 60.030 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.91 Mbit/s

95th percentile per-packet one-way delay: 58.136 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.72 Mbit/s

95th percentile per-packet one-way delay: 61.843 ms

Loss rate: 0.00%

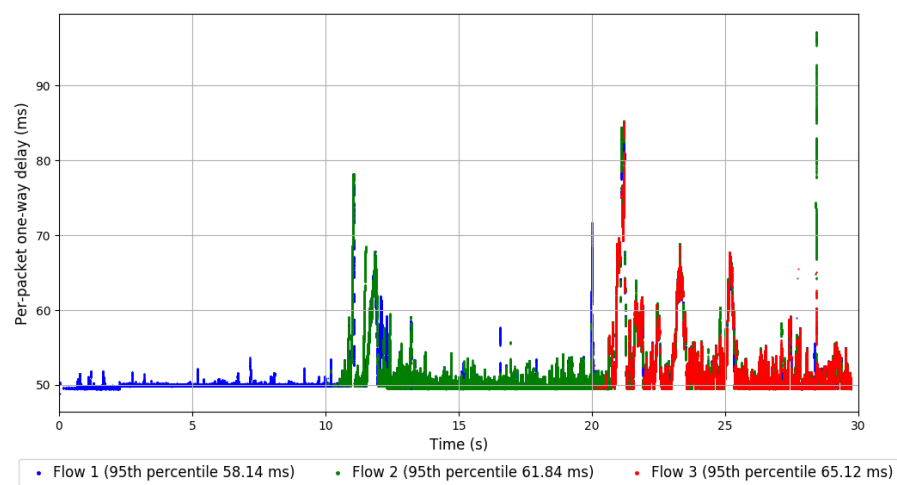
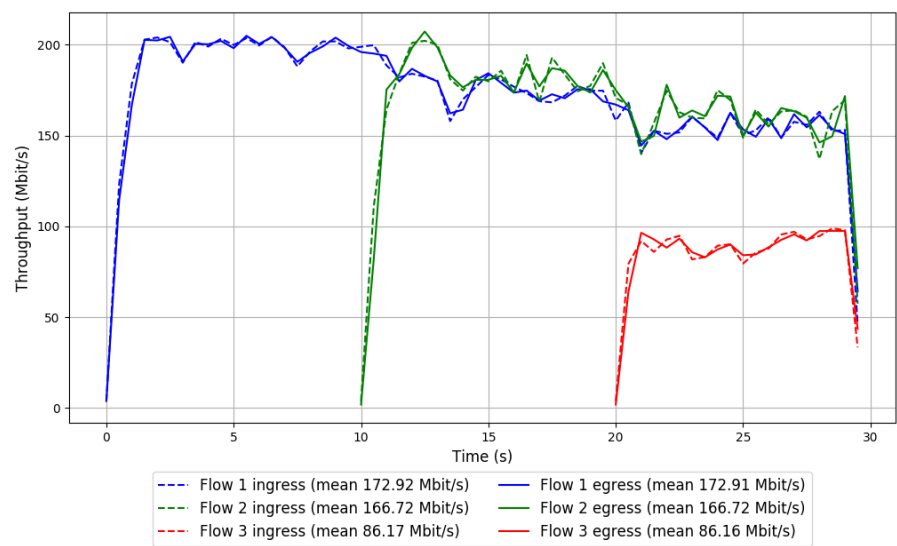
-- Flow 3:

Average throughput: 86.16 Mbit/s

95th percentile per-packet one-way delay: 65.117 ms

Loss rate: 0.00%

Run 10: Report of Indigo-2-256 — Data Link

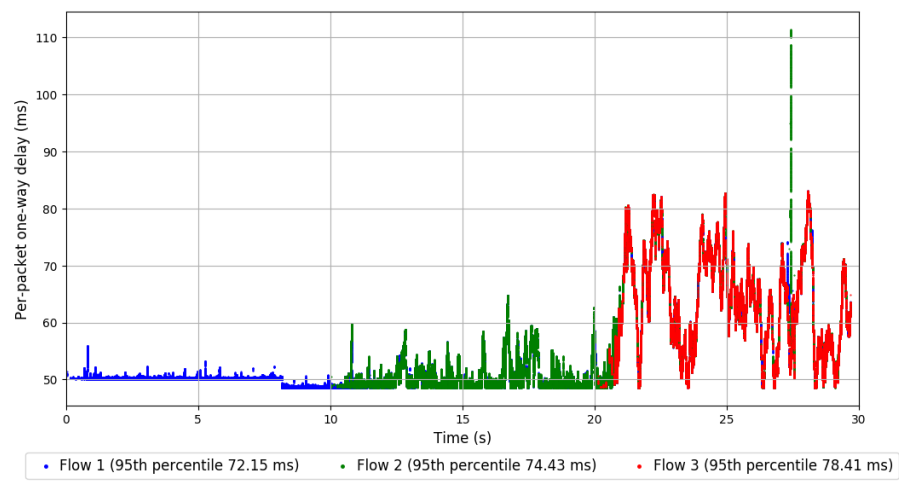
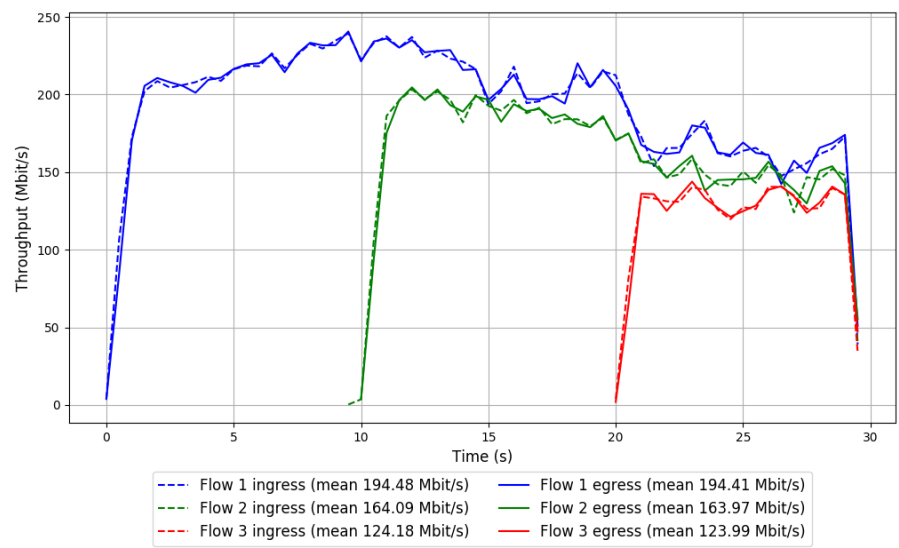


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 18:47:13
End at: 2018-01-26 18:47:43

# Below is generated by plot.py at 2018-01-26 23:20:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.03 Mbit/s
95th percentile per-packet one-way delay: 74.162 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 194.41 Mbit/s
95th percentile per-packet one-way delay: 72.152 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 163.97 Mbit/s
95th percentile per-packet one-way delay: 74.433 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 123.99 Mbit/s
95th percentile per-packet one-way delay: 78.406 ms
Loss rate: 0.12%
```

Run 1: Report of Indigo-1-32 — Data Link

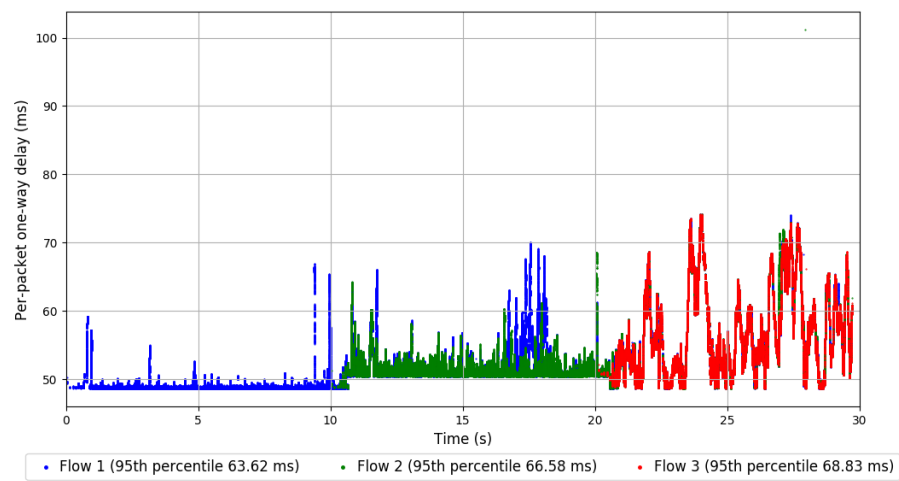
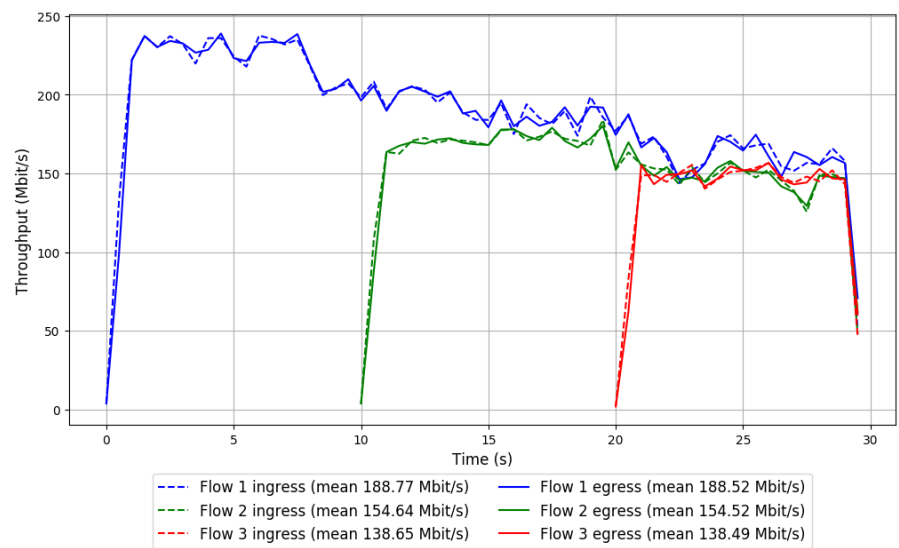


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 19:01:00
End at: 2018-01-26 19:01:30

# Below is generated by plot.py at 2018-01-26 23:20:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.71 Mbit/s
95th percentile per-packet one-way delay: 66.218 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 188.52 Mbit/s
95th percentile per-packet one-way delay: 63.619 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 154.52 Mbit/s
95th percentile per-packet one-way delay: 66.583 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 138.49 Mbit/s
95th percentile per-packet one-way delay: 68.828 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 19:14:41

End at: 2018-01-26 19:15:11

Below is generated by plot.py at 2018-01-26 23:21:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.17 Mbit/s

95th percentile per-packet one-way delay: 70.717 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 186.35 Mbit/s

95th percentile per-packet one-way delay: 68.576 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 162.04 Mbit/s

95th percentile per-packet one-way delay: 71.377 ms

Loss rate: 0.09%

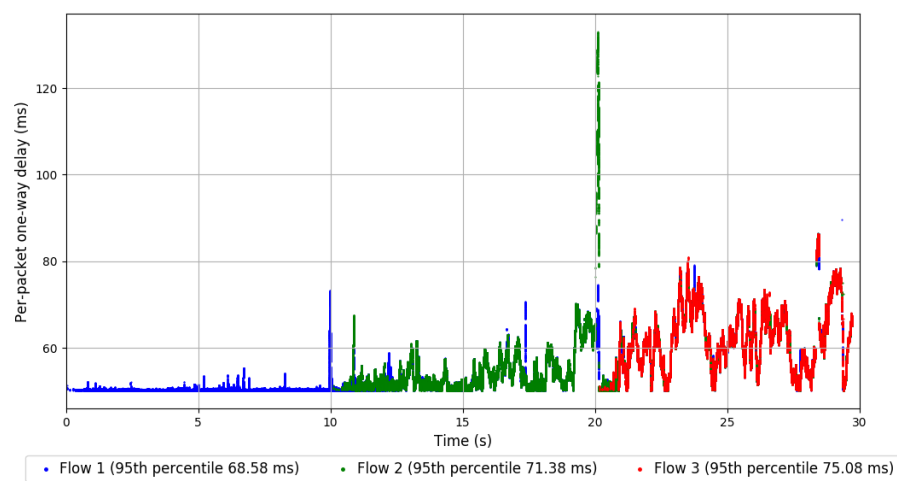
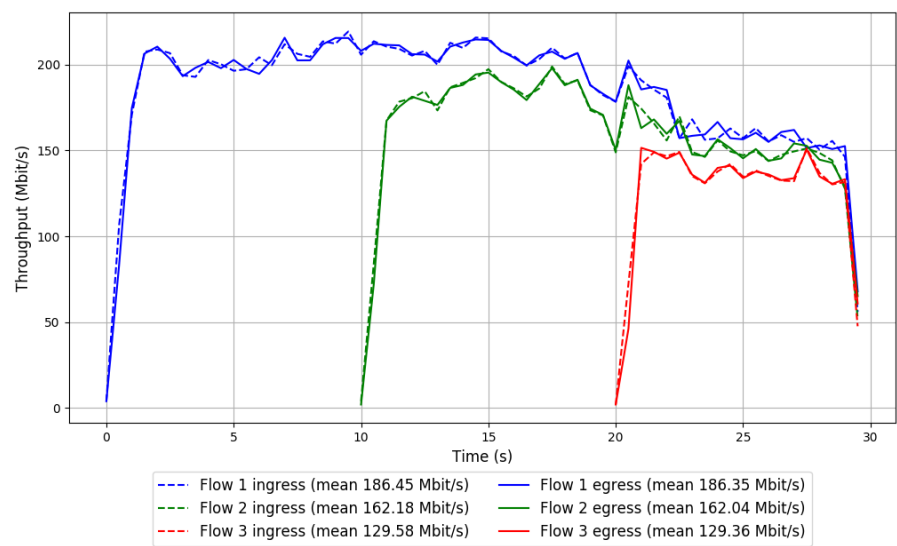
-- Flow 3:

Average throughput: 129.36 Mbit/s

95th percentile per-packet one-way delay: 75.075 ms

Loss rate: 0.10%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 19:28:29

End at: 2018-01-26 19:28:59

Below is generated by plot.py at 2018-01-26 23:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.35 Mbit/s

95th percentile per-packet one-way delay: 67.503 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 184.00 Mbit/s

95th percentile per-packet one-way delay: 66.343 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 158.94 Mbit/s

95th percentile per-packet one-way delay: 67.575 ms

Loss rate: 0.01%

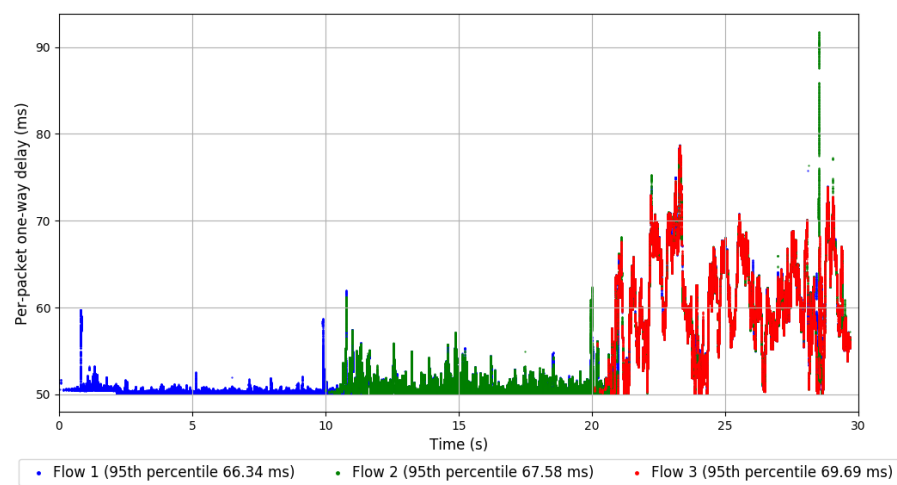
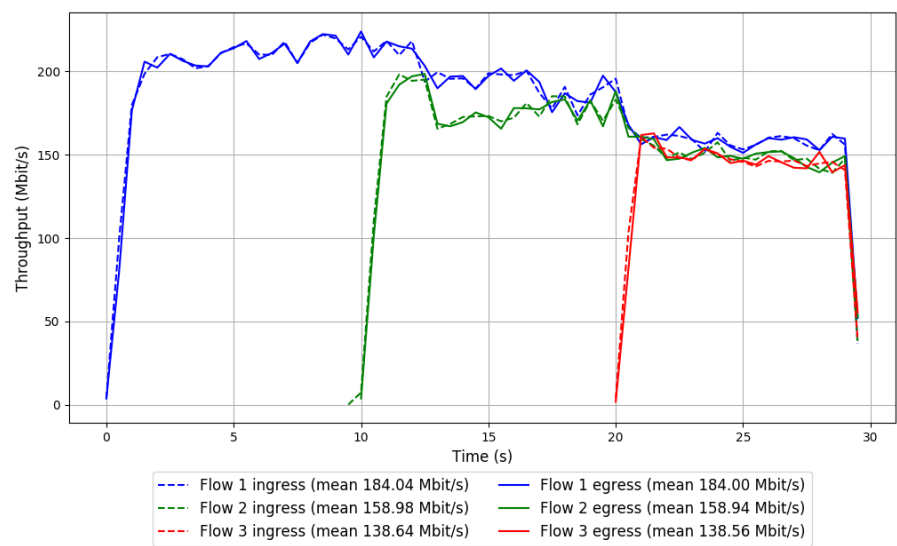
-- Flow 3:

Average throughput: 138.56 Mbit/s

95th percentile per-packet one-way delay: 69.686 ms

Loss rate: 0.04%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 19:42:32

End at: 2018-01-26 19:43:02

Below is generated by plot.py at 2018-01-26 23:24:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.61 Mbit/s

95th percentile per-packet one-way delay: 77.014 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 181.08 Mbit/s

95th percentile per-packet one-way delay: 74.389 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 166.75 Mbit/s

95th percentile per-packet one-way delay: 77.134 ms

Loss rate: 0.03%

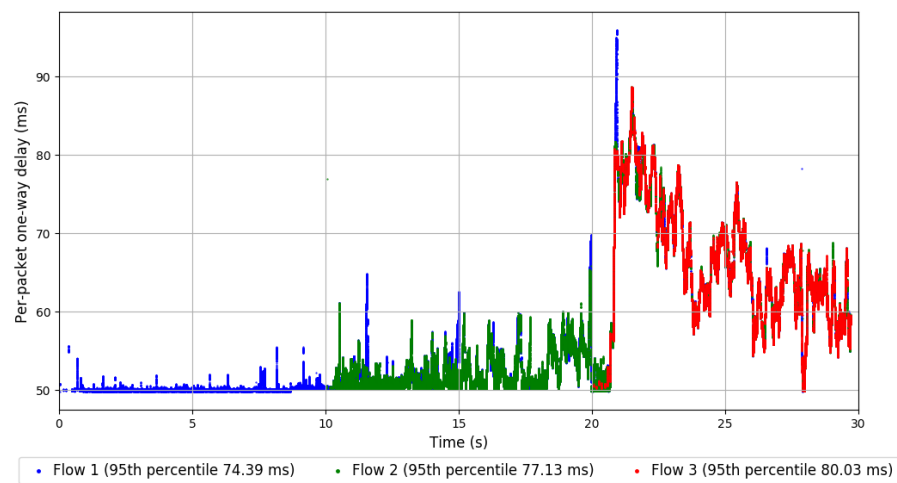
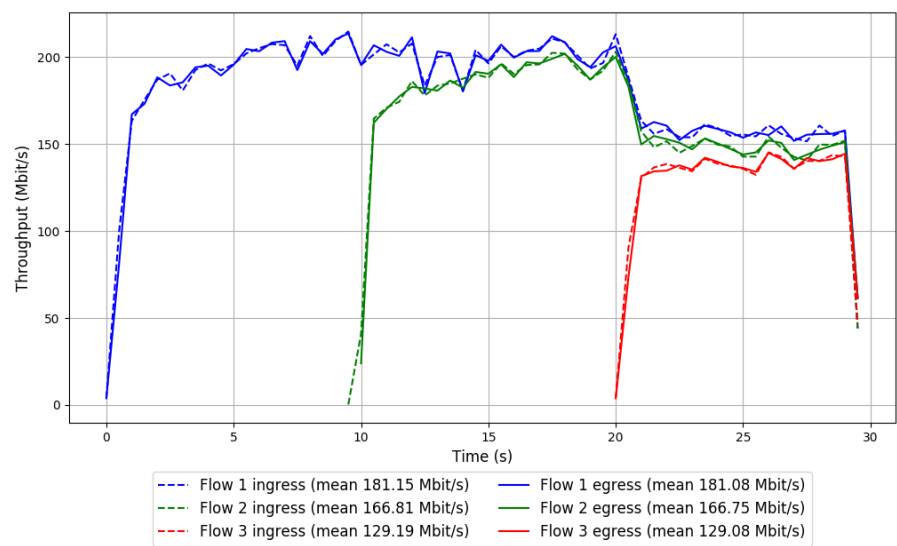
-- Flow 3:

Average throughput: 129.08 Mbit/s

95th percentile per-packet one-way delay: 80.029 ms

Loss rate: 0.10%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 19:56:24

End at: 2018-01-26 19:56:54

Below is generated by plot.py at 2018-01-26 23:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.41 Mbit/s

95th percentile per-packet one-way delay: 69.331 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 201.87 Mbit/s

95th percentile per-packet one-way delay: 67.573 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 174.76 Mbit/s

95th percentile per-packet one-way delay: 69.986 ms

Loss rate: 0.29%

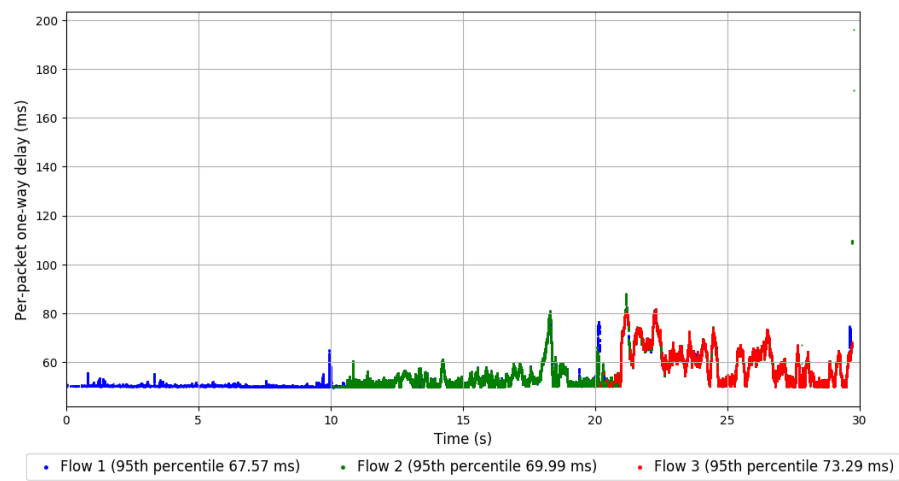
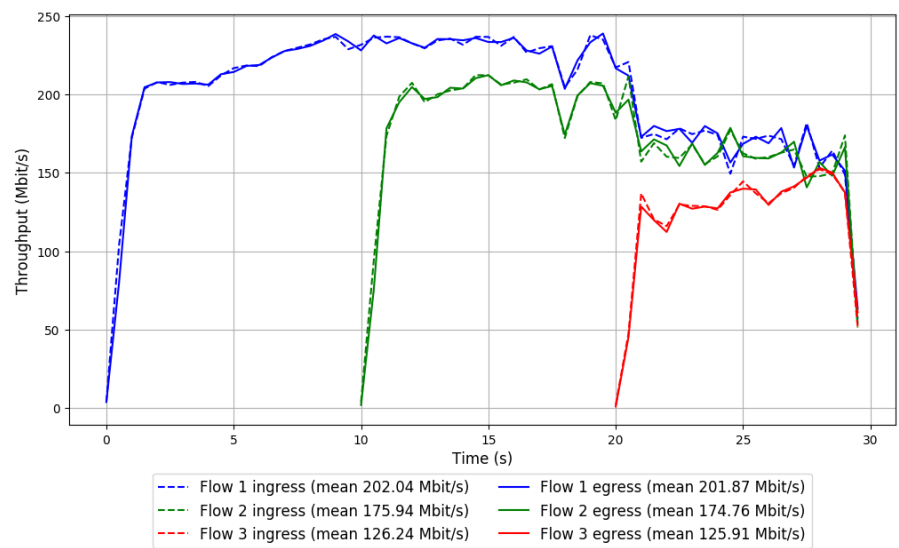
-- Flow 3:

Average throughput: 125.91 Mbit/s

95th percentile per-packet one-way delay: 73.286 ms

Loss rate: 0.25%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 20:10:22

End at: 2018-01-26 20:10:52

Below is generated by plot.py at 2018-01-26 23:25:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.61 Mbit/s

95th percentile per-packet one-way delay: 68.315 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 185.76 Mbit/s

95th percentile per-packet one-way delay: 65.655 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 160.47 Mbit/s

95th percentile per-packet one-way delay: 69.795 ms

Loss rate: 0.28%

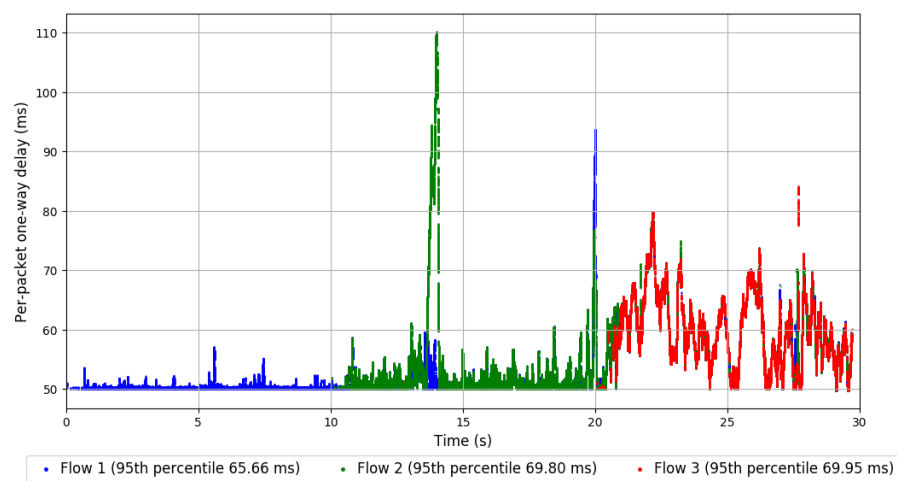
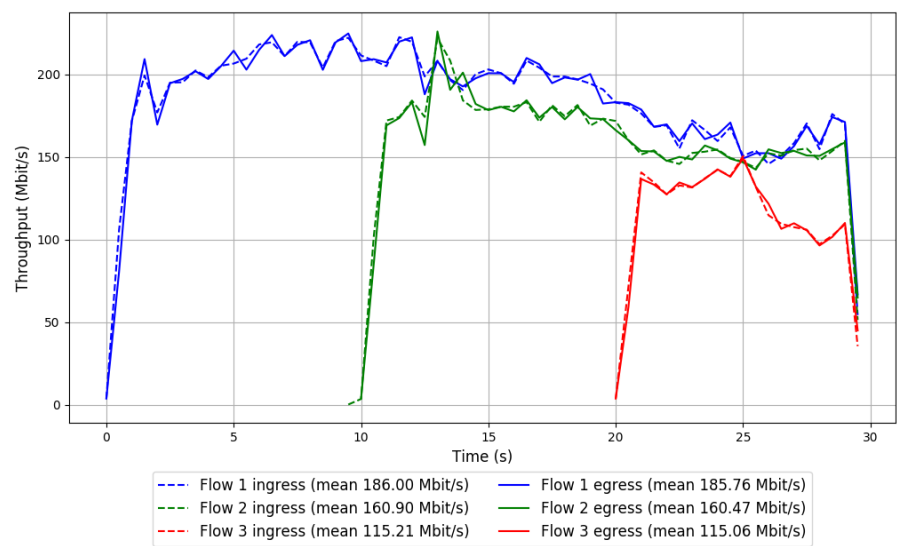
-- Flow 3:

Average throughput: 115.06 Mbit/s

95th percentile per-packet one-way delay: 69.955 ms

Loss rate: 0.12%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 20:24:06

End at: 2018-01-26 20:24:36

Below is generated by plot.py at 2018-01-26 23:25:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.51 Mbit/s

95th percentile per-packet one-way delay: 70.104 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 179.42 Mbit/s

95th percentile per-packet one-way delay: 67.976 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 164.73 Mbit/s

95th percentile per-packet one-way delay: 70.209 ms

Loss rate: 0.08%

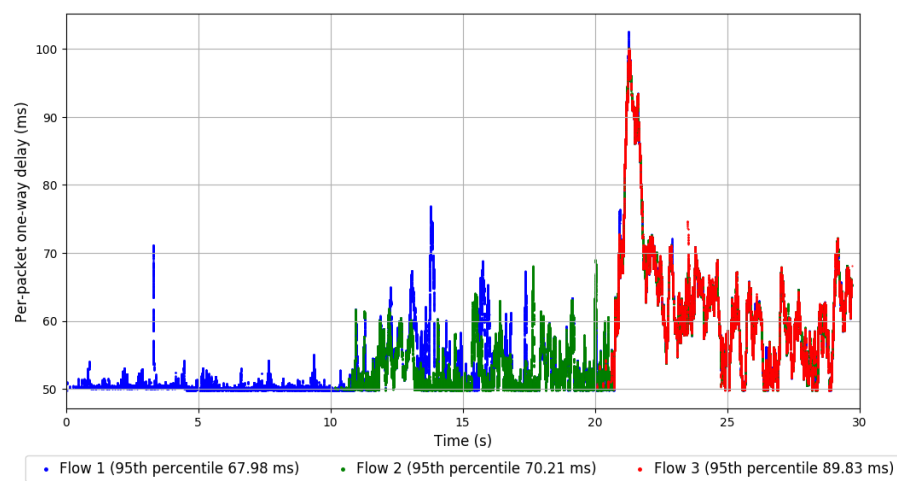
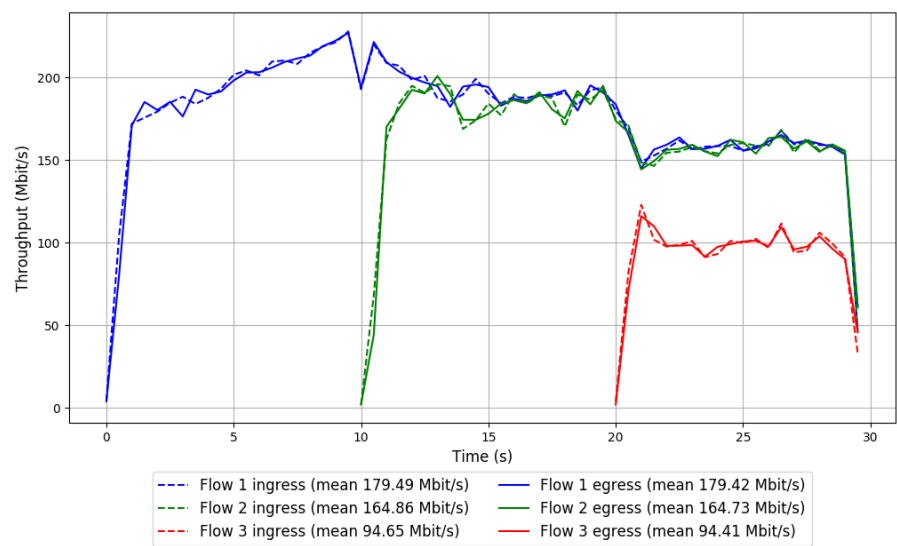
-- Flow 3:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 89.832 ms

Loss rate: 0.18%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 20:37:53

End at: 2018-01-26 20:38:23

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.48 Mbit/s

95th percentile per-packet one-way delay: 72.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 195.54 Mbit/s

95th percentile per-packet one-way delay: 71.285 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.27 Mbit/s

95th percentile per-packet one-way delay: 72.548 ms

Loss rate: 0.00%

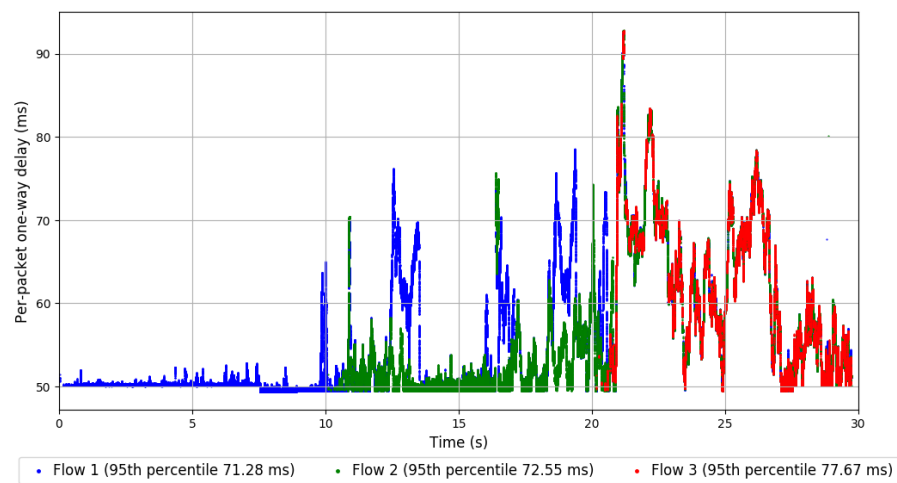
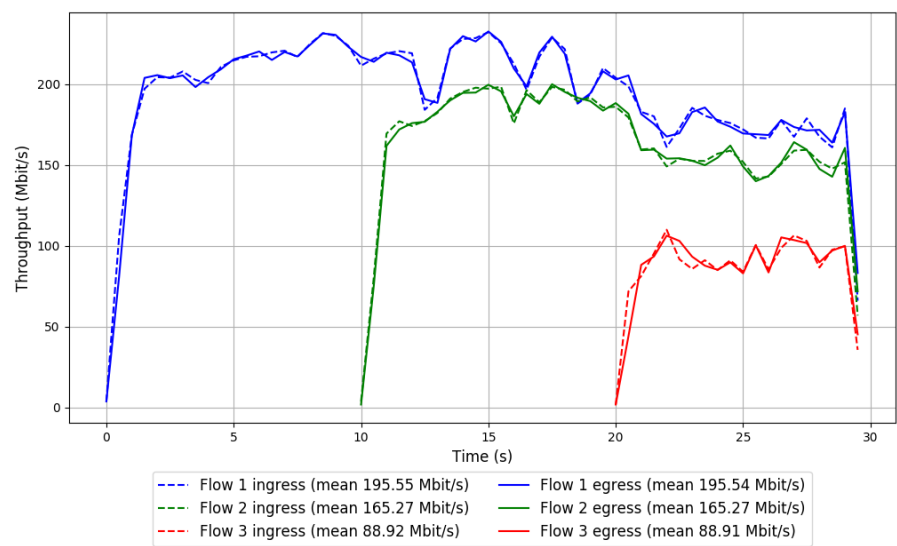
-- Flow 3:

Average throughput: 88.91 Mbit/s

95th percentile per-packet one-way delay: 77.667 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 20:51:44

End at: 2018-01-26 20:52:14

Below is generated by plot.py at 2018-01-26 23:26:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.04 Mbit/s

95th percentile per-packet one-way delay: 68.640 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 182.48 Mbit/s

95th percentile per-packet one-way delay: 66.023 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.97 Mbit/s

95th percentile per-packet one-way delay: 68.648 ms

Loss rate: 0.01%

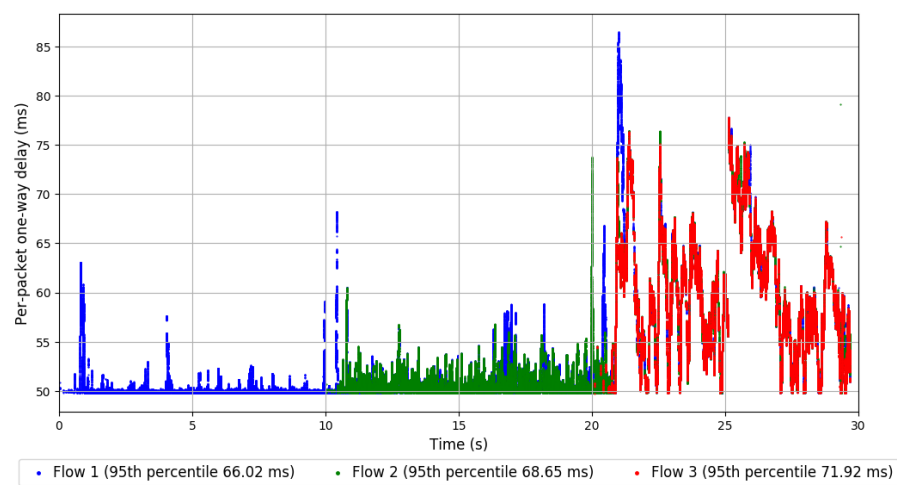
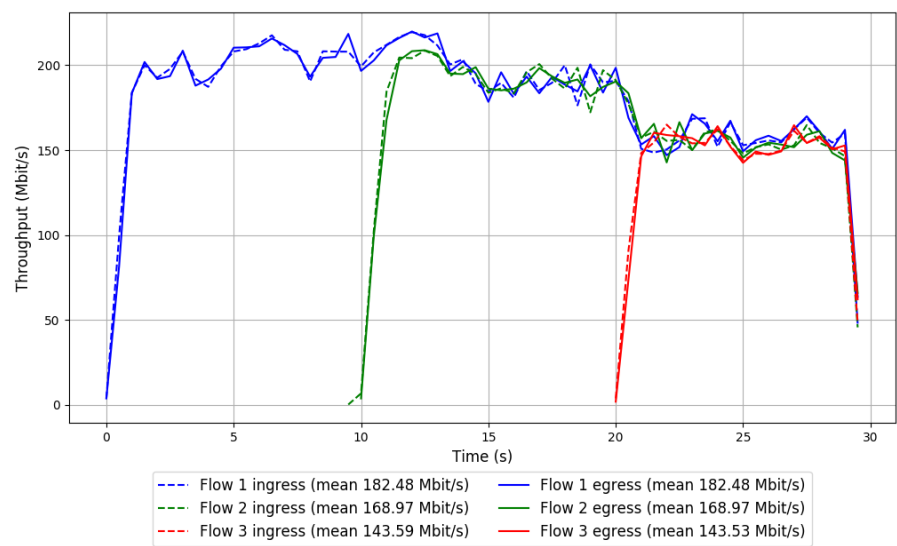
-- Flow 3:

Average throughput: 143.53 Mbit/s

95th percentile per-packet one-way delay: 71.921 ms

Loss rate: 0.01%

Run 10: Report of Indigo-1-32 — Data Link

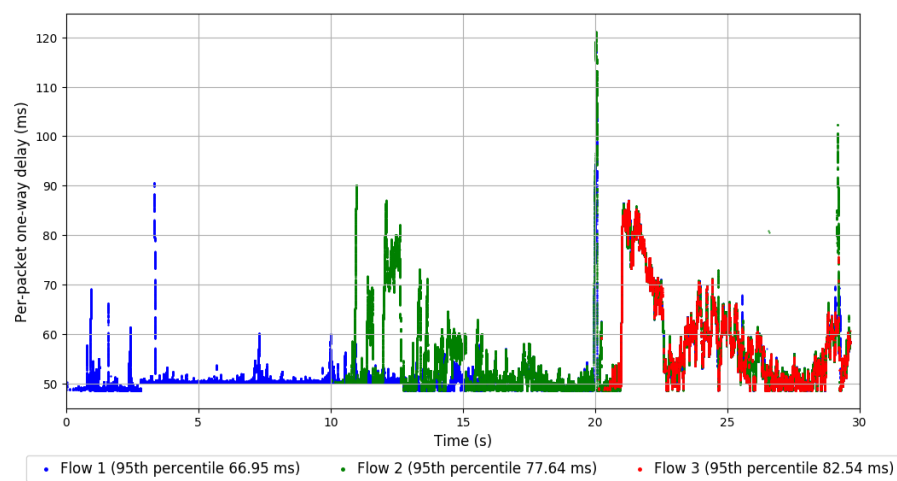
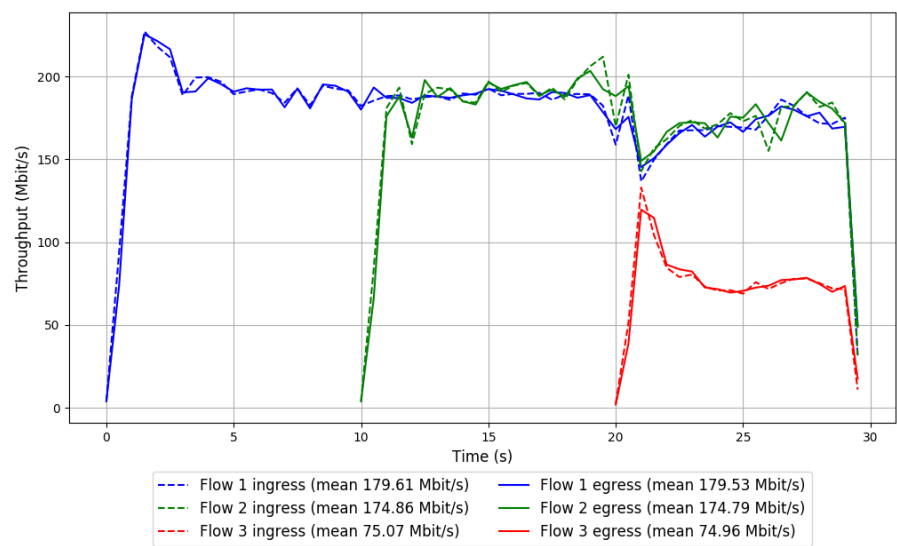


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 18:42:08
End at: 2018-01-26 18:42:38

# Below is generated by plot.py at 2018-01-26 23:26:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.31 Mbit/s
95th percentile per-packet one-way delay: 75.126 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 179.53 Mbit/s
95th percentile per-packet one-way delay: 66.951 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 174.79 Mbit/s
95th percentile per-packet one-way delay: 77.635 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 74.96 Mbit/s
95th percentile per-packet one-way delay: 82.540 ms
Loss rate: 0.05%
```


Run 1: Report of Indigo-1-128 — Data Link

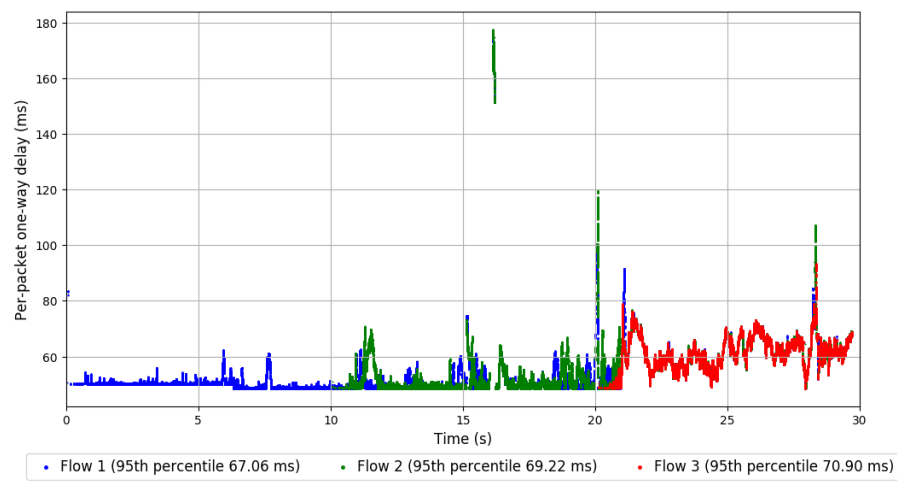
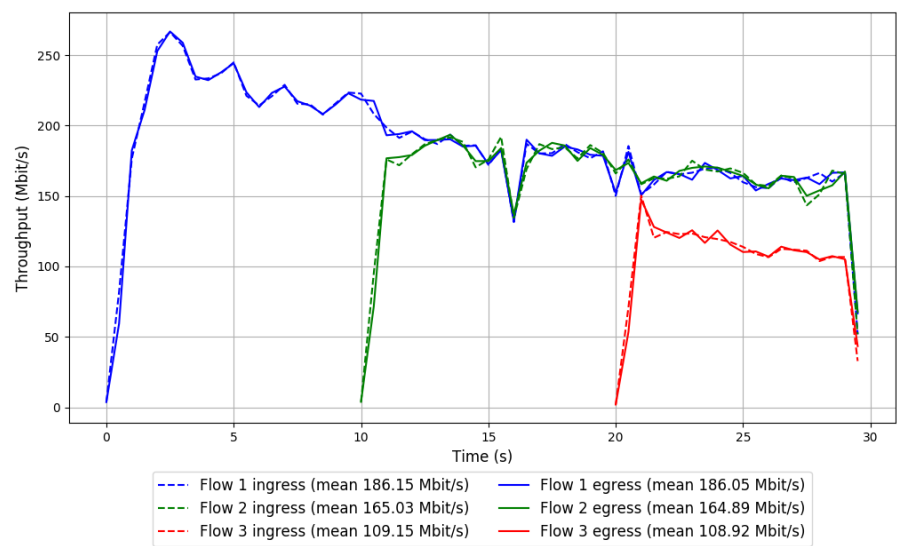


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 18:55:54
End at: 2018-01-26 18:56:24

# Below is generated by plot.py at 2018-01-26 23:28:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.33 Mbit/s
95th percentile per-packet one-way delay: 68.647 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 186.05 Mbit/s
95th percentile per-packet one-way delay: 67.064 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 164.89 Mbit/s
95th percentile per-packet one-way delay: 69.221 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 108.92 Mbit/s
95th percentile per-packet one-way delay: 70.902 ms
Loss rate: 0.19%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 19:09:34

End at: 2018-01-26 19:10:04

Below is generated by plot.py at 2018-01-26 23:30:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.42 Mbit/s

95th percentile per-packet one-way delay: 69.301 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 194.90 Mbit/s

95th percentile per-packet one-way delay: 65.300 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.64 Mbit/s

95th percentile per-packet one-way delay: 69.993 ms

Loss rate: 0.00%

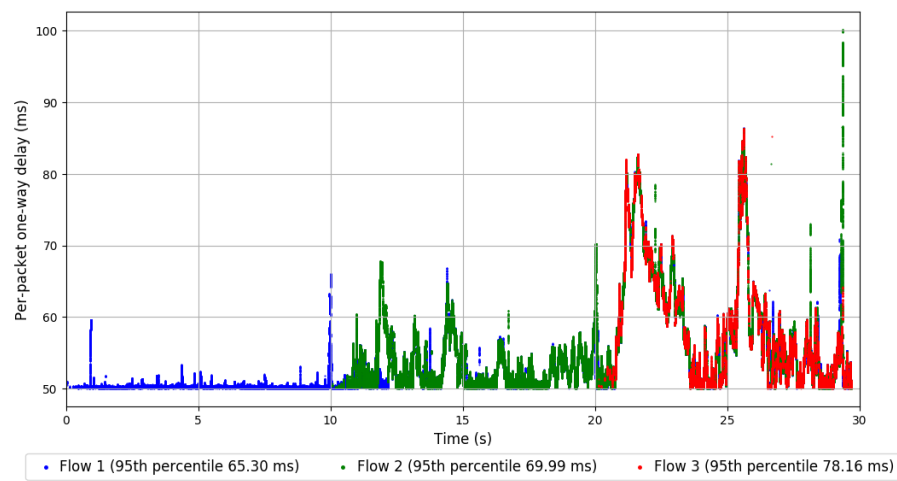
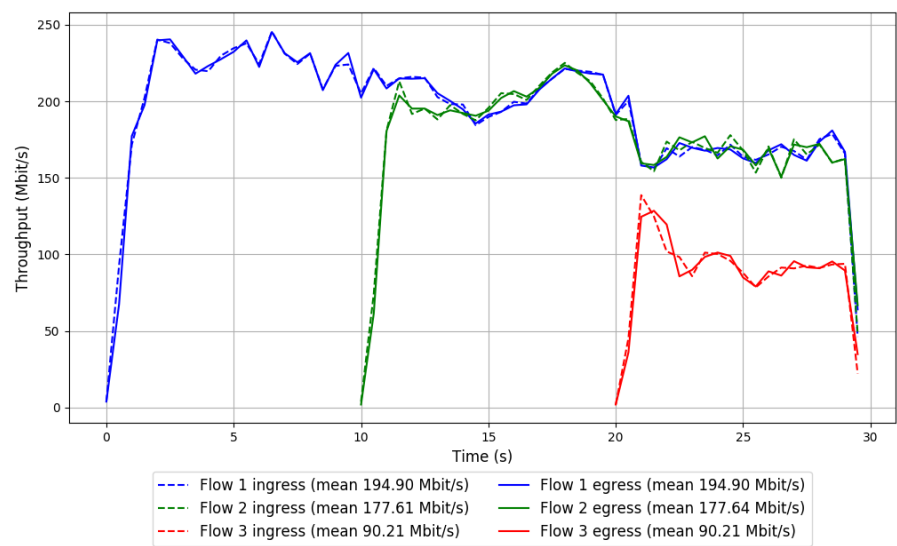
-- Flow 3:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 78.159 ms

Loss rate: 0.00%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 19:23:22

End at: 2018-01-26 19:23:52

Below is generated by plot.py at 2018-01-26 23:30:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.40 Mbit/s

95th percentile per-packet one-way delay: 71.816 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 178.85 Mbit/s

95th percentile per-packet one-way delay: 68.738 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 171.60 Mbit/s

95th percentile per-packet one-way delay: 72.306 ms

Loss rate: 0.08%

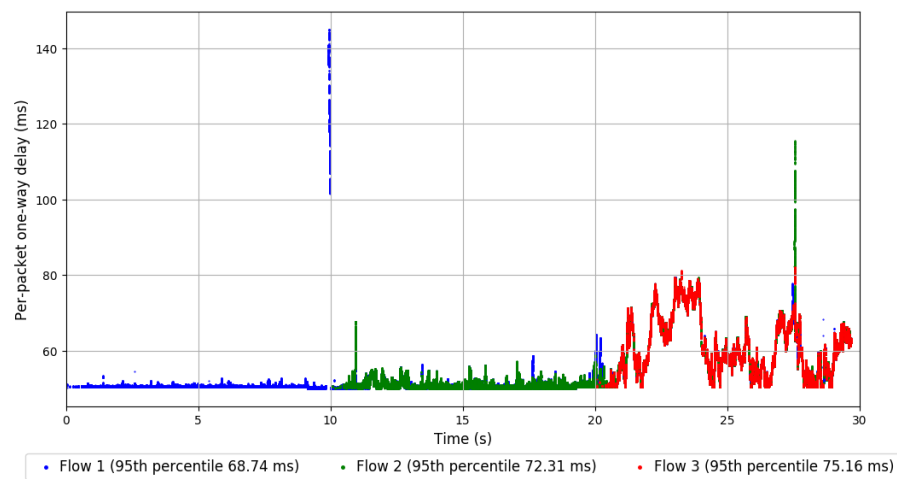
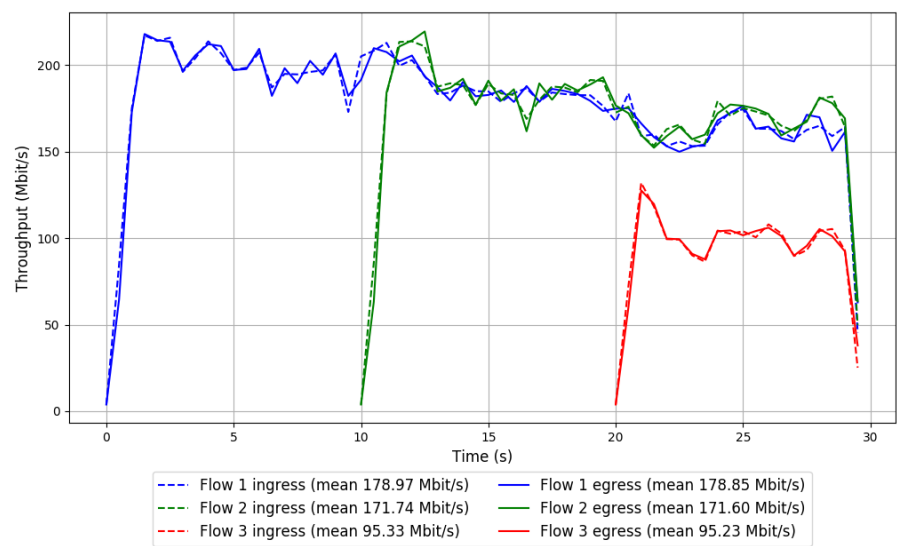
-- Flow 3:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 75.164 ms

Loss rate: 0.05%

Run 4: Report of Indigo-1-128 — Data Link

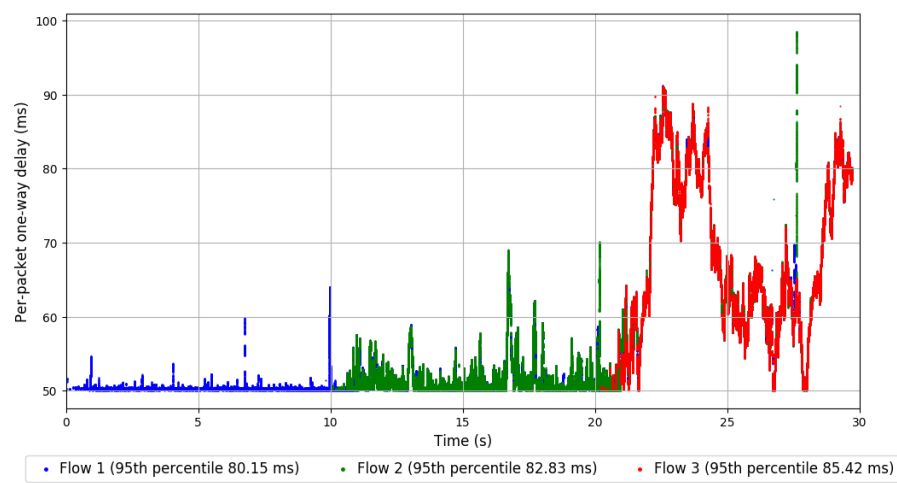
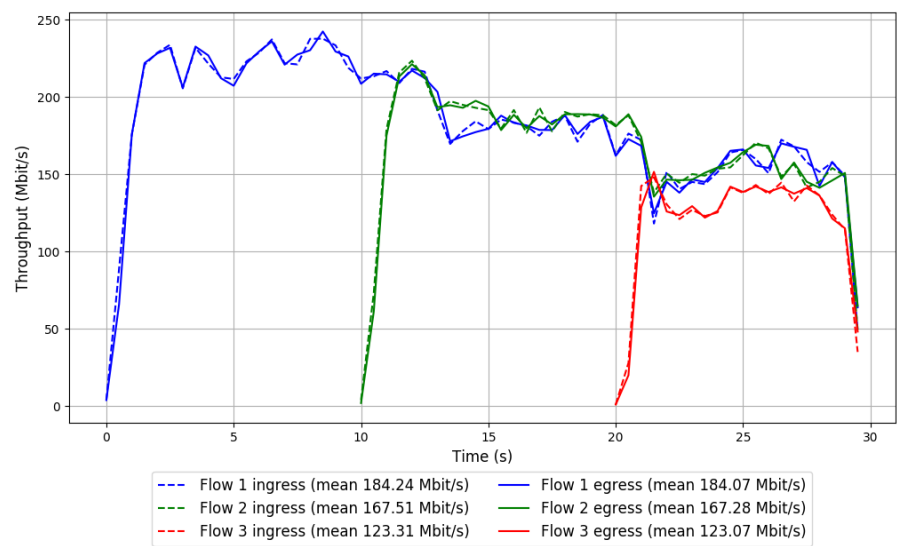


```
Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 19:37:22
End at: 2018-01-26 19:37:52

# Below is generated by plot.py at 2018-01-26 23:31:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.01 Mbit/s
95th percentile per-packet one-way delay: 82.579 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 184.07 Mbit/s
95th percentile per-packet one-way delay: 80.146 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 167.28 Mbit/s
95th percentile per-packet one-way delay: 82.826 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 123.07 Mbit/s
95th percentile per-packet one-way delay: 85.421 ms
Loss rate: 0.21%
```


Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 19:51:15

End at: 2018-01-26 19:51:45

Below is generated by plot.py at 2018-01-26 23:31:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.41 Mbit/s

95th percentile per-packet one-way delay: 68.982 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 181.78 Mbit/s

95th percentile per-packet one-way delay: 66.397 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 170.09 Mbit/s

95th percentile per-packet one-way delay: 69.191 ms

Loss rate: 0.02%

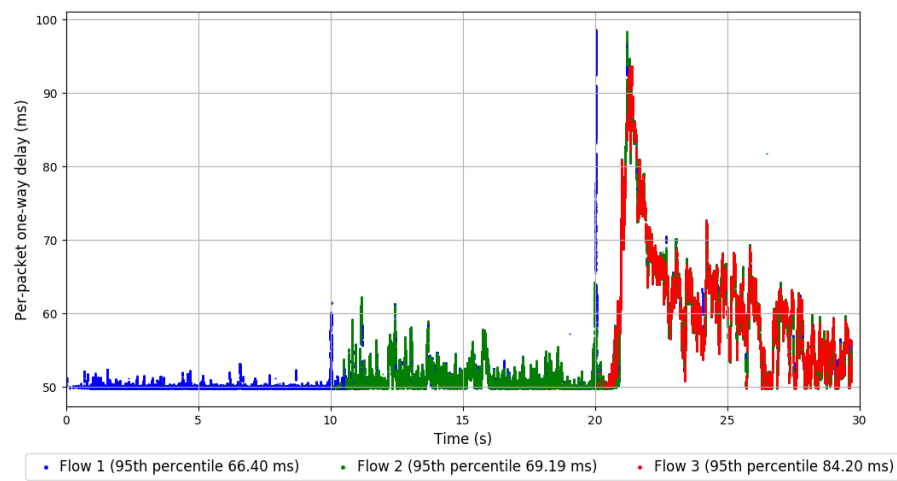
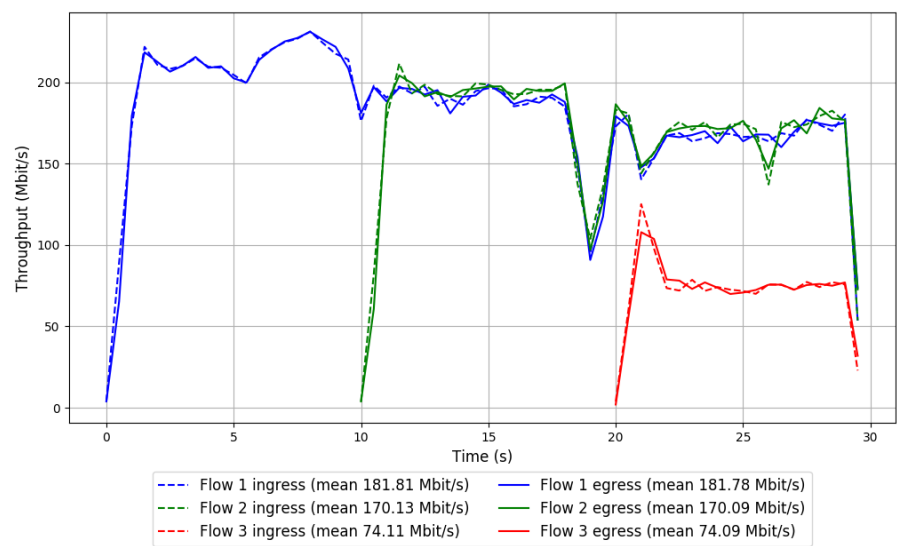
-- Flow 3:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 84.199 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 20:05:12

End at: 2018-01-26 20:05:42

Below is generated by plot.py at 2018-01-26 23:31:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.64 Mbit/s

95th percentile per-packet one-way delay: 72.534 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 192.04 Mbit/s

95th percentile per-packet one-way delay: 69.720 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 185.35 Mbit/s

95th percentile per-packet one-way delay: 73.266 ms

Loss rate: 0.07%

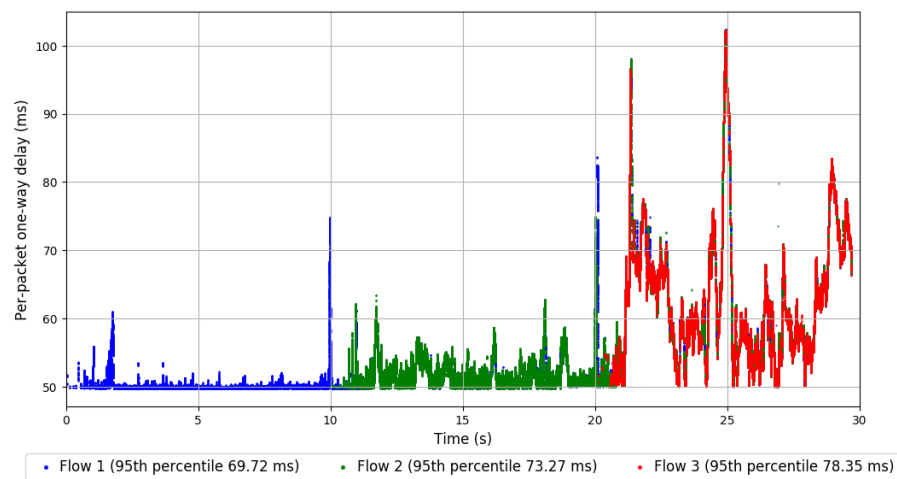
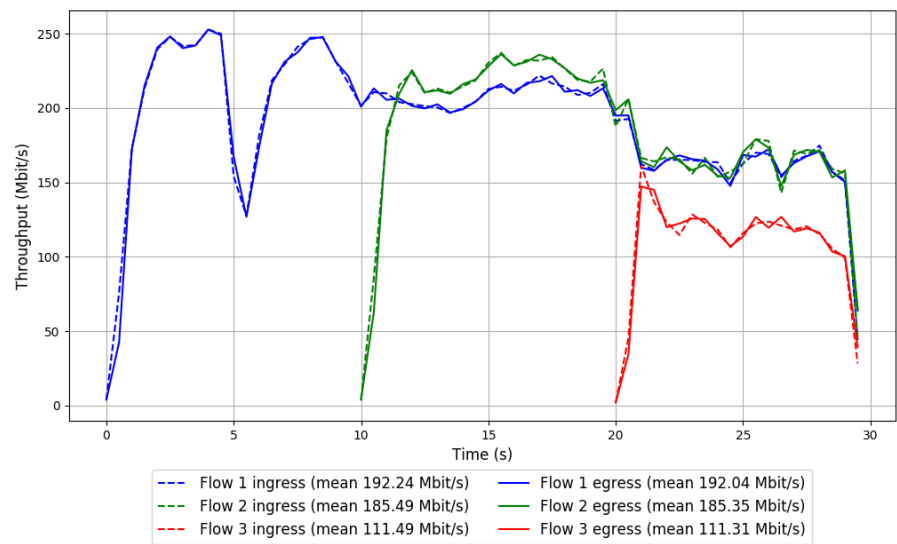
-- Flow 3:

Average throughput: 111.31 Mbit/s

95th percentile per-packet one-way delay: 78.351 ms

Loss rate: 0.14%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 20:19:02

End at: 2018-01-26 20:19:32

Below is generated by plot.py at 2018-01-26 23:31:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.82 Mbit/s

95th percentile per-packet one-way delay: 72.365 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.19 Mbit/s

95th percentile per-packet one-way delay: 70.690 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.46 Mbit/s

95th percentile per-packet one-way delay: 73.154 ms

Loss rate: 0.00%

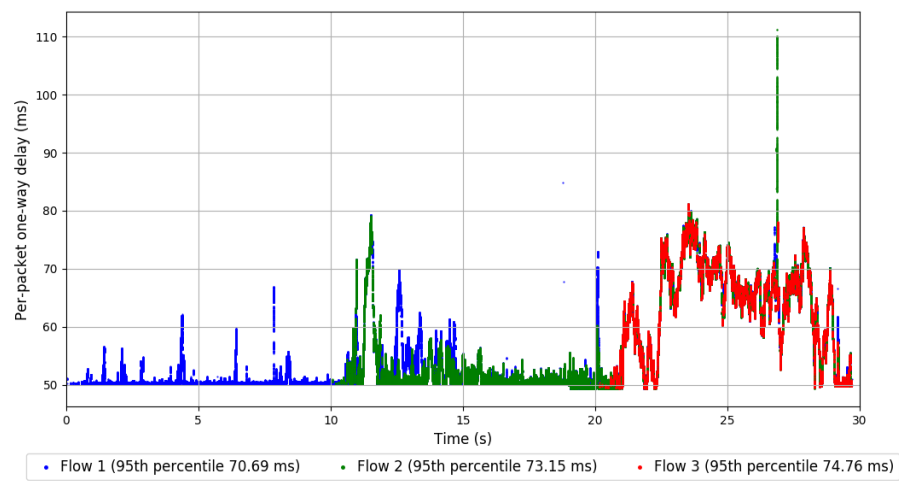
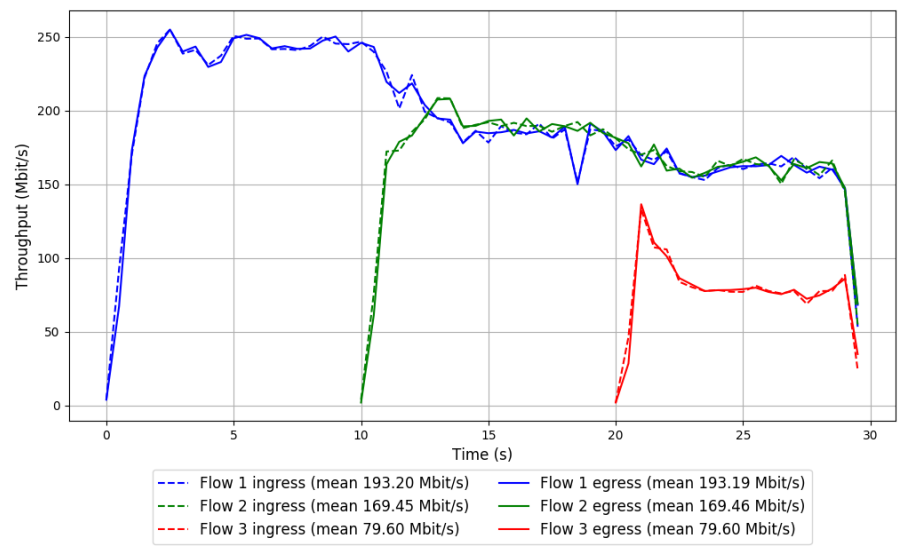
-- Flow 3:

Average throughput: 79.60 Mbit/s

95th percentile per-packet one-way delay: 74.761 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 20:32:45

End at: 2018-01-26 20:33:15

Below is generated by plot.py at 2018-01-26 23:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.25 Mbit/s

95th percentile per-packet one-way delay: 67.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 189.55 Mbit/s

95th percentile per-packet one-way delay: 64.423 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.73 Mbit/s

95th percentile per-packet one-way delay: 68.668 ms

Loss rate: 0.01%

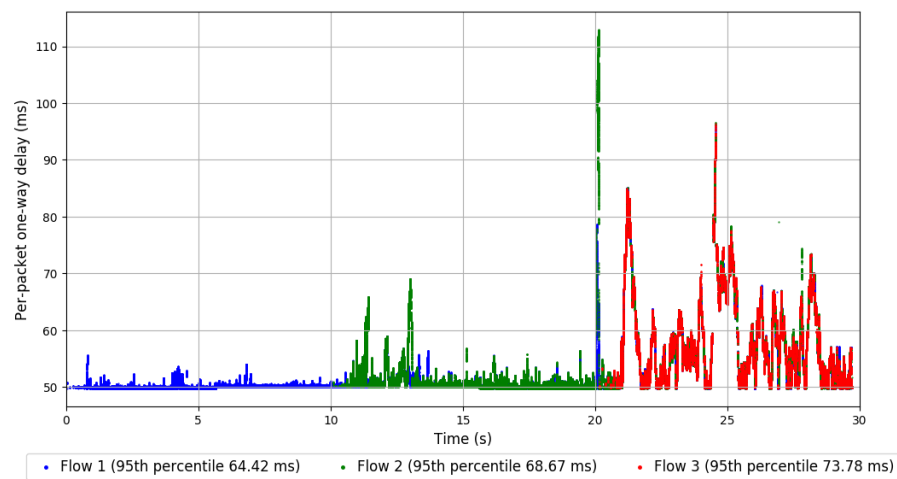
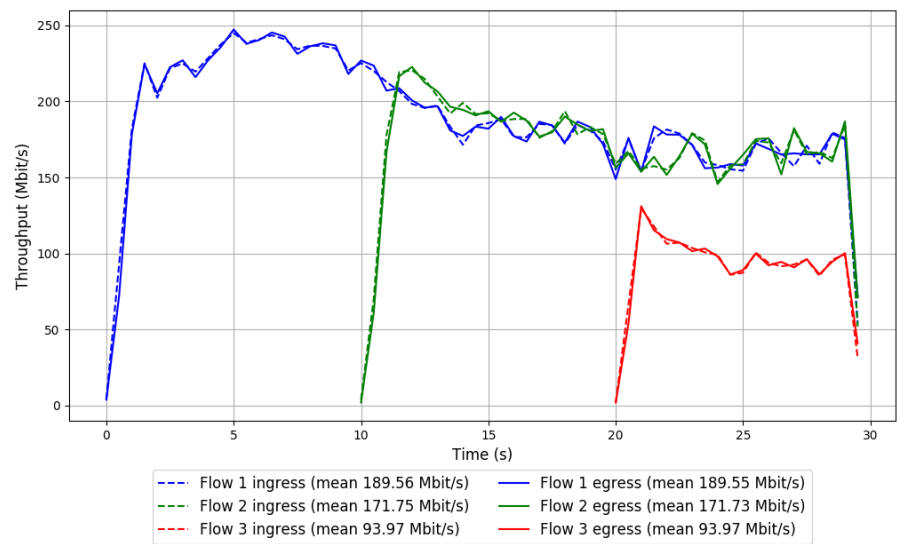
-- Flow 3:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 73.785 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 20:46:34

End at: 2018-01-26 20:47:04

Below is generated by plot.py at 2018-01-26 23:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.43 Mbit/s

95th percentile per-packet one-way delay: 68.989 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 198.03 Mbit/s

95th percentile per-packet one-way delay: 67.475 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 179.70 Mbit/s

95th percentile per-packet one-way delay: 69.458 ms

Loss rate: 0.05%

-- Flow 3:

Average throughput: 96.80 Mbit/s

95th percentile per-packet one-way delay: 71.934 ms

Loss rate: 0.13%

Run 10: Report of Indigo-1-128 — Data Link

