

Pantheon Report

Generated at 2018-01-26 22:12:28 (UTC).

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

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.

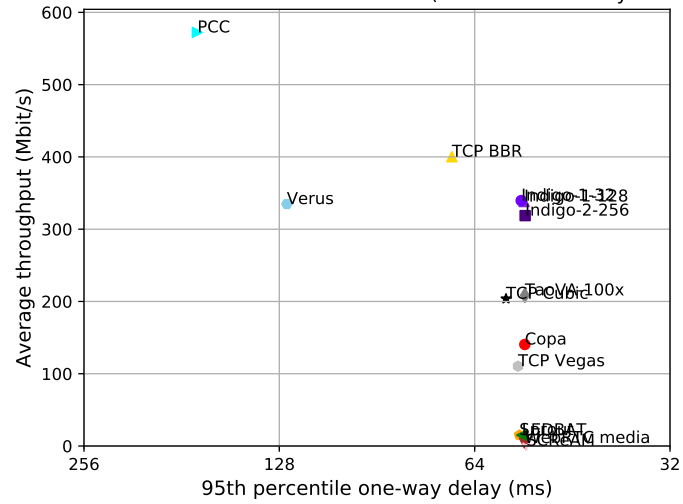
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

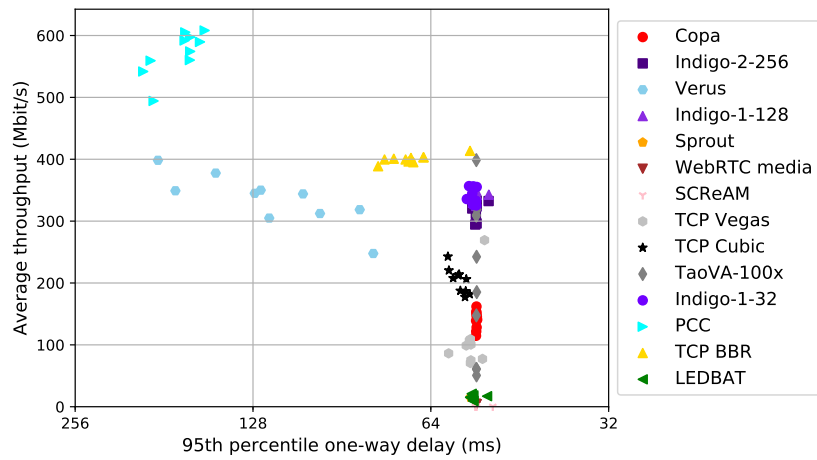
Git summary:

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	205.10	200.85	187.41	67.05	69.36	72.70	0.43	0.58	1.27
TCP Cubic	10	98.65	108.13	101.02	57.00	57.00	56.31	0.60	0.50	1.20
LEDBAT	10	7.89	7.44	6.62	54.44	54.05	53.49	1.42	1.57	2.94
PCC	10	536.39	40.31	27.90	171.15	170.75	157.72	2.43	2.83	4.81
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	9	0.21	0.21	0.22	52.88	52.84	50.87	0.30	0.52	1.03
WebRTC media	10	2.23	1.40	0.57	52.68	52.58	53.32	0.46	0.56	1.56
Sprout	10	7.77	7.61	7.25	54.64	54.57	54.00	0.79	0.80	1.55
TaoVA-100x	10	116.35	112.72	108.57	53.29	53.39	53.42	0.41	0.55	1.49
TCP Vegas	9	45.92	57.02	80.97	54.05	54.59	54.58	0.57	0.67	1.24
Verus	10	197.17	154.31	107.71	121.49	120.34	127.13	0.93	1.48	2.70
Copa	10	72.31	73.30	75.56	52.90	53.25	52.58	0.33	0.50	1.49
Indigo-2-256	10	171.07	159.96	128.94	53.25	53.41	53.61	0.30	0.50	1.07
Indigo-1-32	10	182.24	164.71	148.70	53.93	54.33	54.94	0.35	0.50	1.20
Indigo-1-128	10	181.14	170.43	136.49	53.51	53.76	53.72	0.30	0.50	1.16

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 16:20:58

End at: 2018-01-26 16:21:28

Below is generated by plot.py at 2018-01-26 21:09:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.67 Mbit/s

95th percentile per-packet one-way delay: 76.660 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 71.003 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 76.412 ms

Loss rate: 0.59%

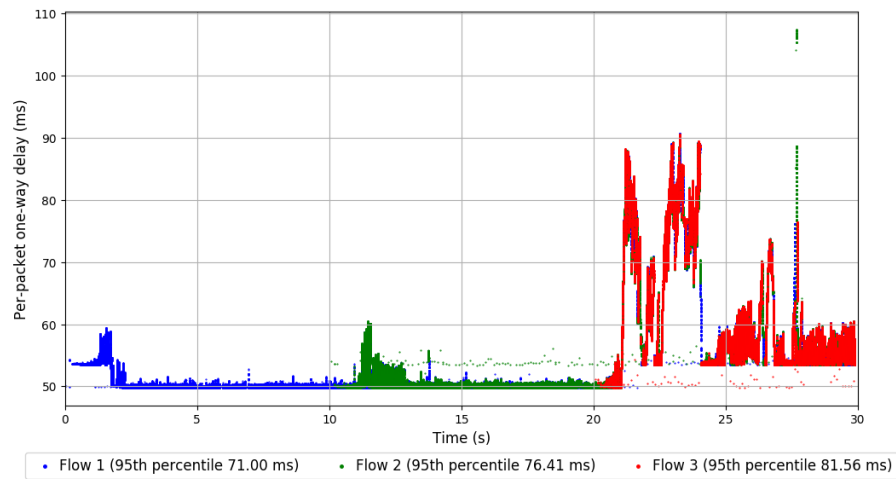
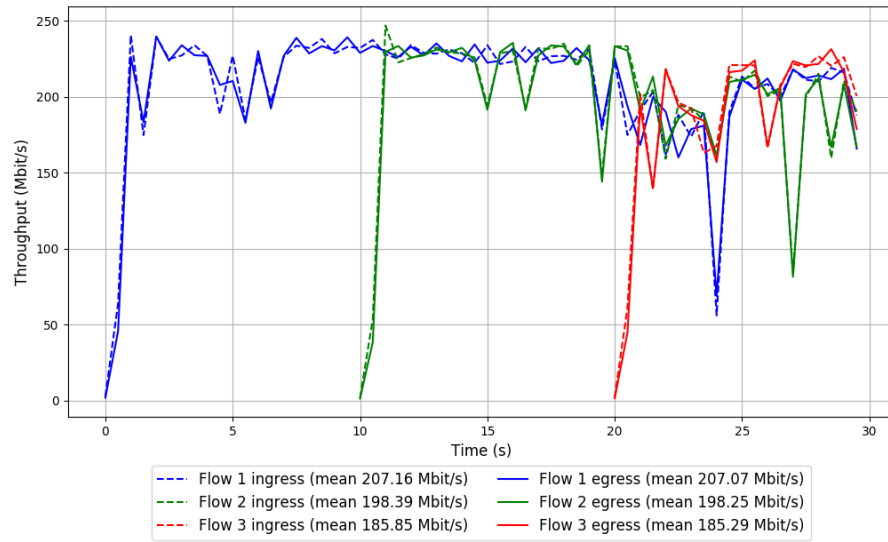
-- Flow 3:

Average throughput: 185.29 Mbit/s

95th percentile per-packet one-way delay: 81.563 ms

Loss rate: 1.33%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 16:35:12

End at: 2018-01-26 16:35:42

Below is generated by plot.py at 2018-01-26 21:09:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.18 Mbit/s

95th percentile per-packet one-way delay: 69.156 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 205.93 Mbit/s

95th percentile per-packet one-way delay: 67.148 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 201.86 Mbit/s

95th percentile per-packet one-way delay: 69.720 ms

Loss rate: 0.58%

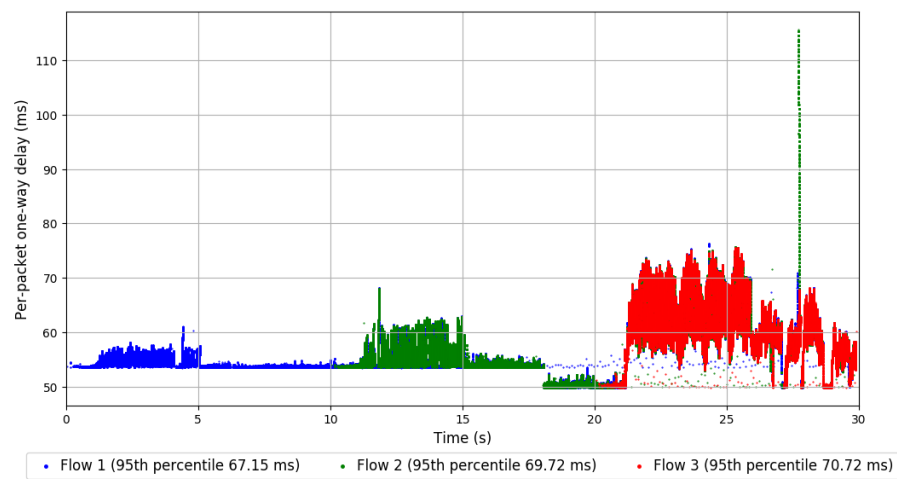
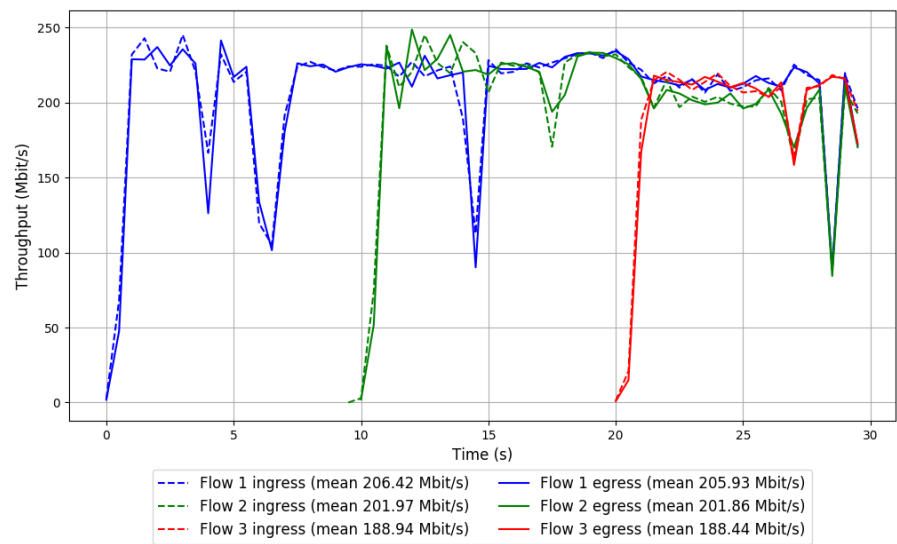
-- Flow 3:

Average throughput: 188.44 Mbit/s

95th percentile per-packet one-way delay: 70.720 ms

Loss rate: 1.25%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 16:49:20

End at: 2018-01-26 16:49:50

Below is generated by plot.py at 2018-01-26 21:09:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.20 Mbit/s

95th percentile per-packet one-way delay: 68.524 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 206.03 Mbit/s

95th percentile per-packet one-way delay: 66.152 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 191.54 Mbit/s

95th percentile per-packet one-way delay: 68.504 ms

Loss rate: 0.42%

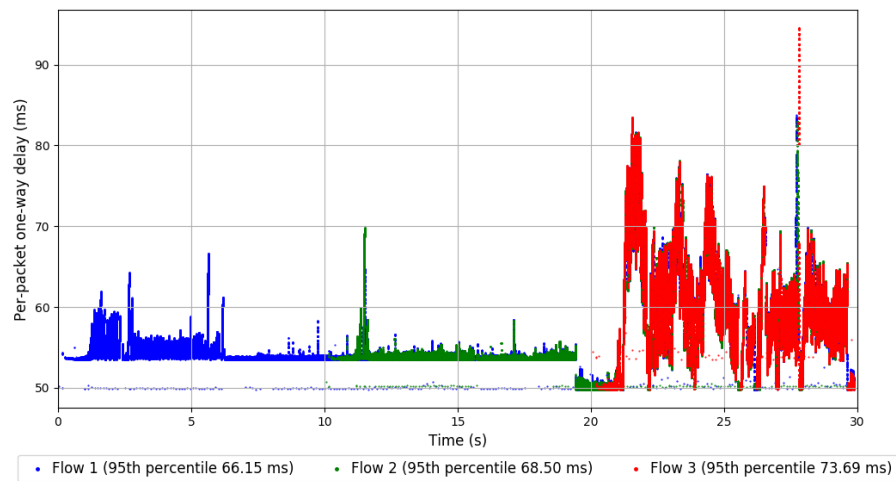
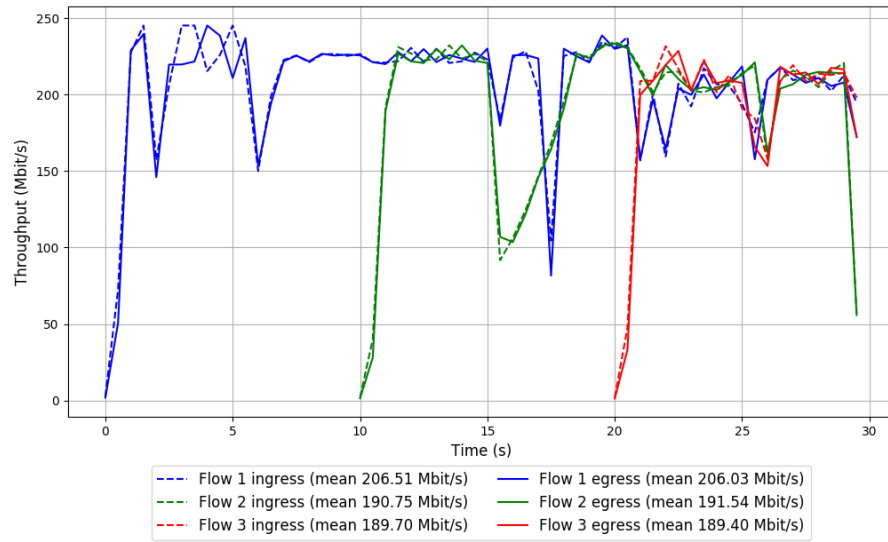
-- Flow 3:

Average throughput: 189.40 Mbit/s

95th percentile per-packet one-way delay: 73.687 ms

Loss rate: 1.25%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 17:03:24

End at: 2018-01-26 17:03:54

Below is generated by plot.py at 2018-01-26 21:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.06 Mbit/s

95th percentile per-packet one-way delay: 65.860 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 202.86 Mbit/s

95th percentile per-packet one-way delay: 64.238 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 205.88 Mbit/s

95th percentile per-packet one-way delay: 65.585 ms

Loss rate: 0.59%

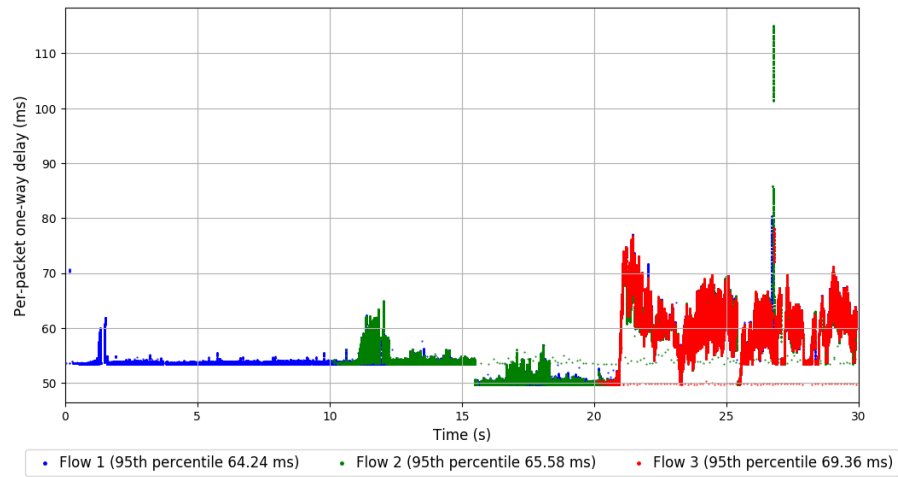
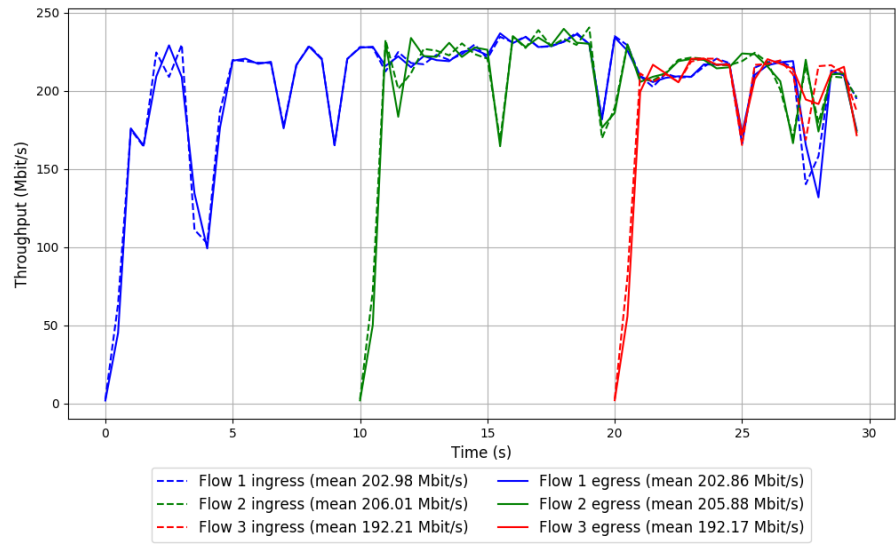
-- Flow 3:

Average throughput: 192.17 Mbit/s

95th percentile per-packet one-way delay: 69.365 ms

Loss rate: 1.05%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2018-01-26 17:17:49

Below is generated by plot.py at 2018-01-26 21:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.42 Mbit/s

95th percentile per-packet one-way delay: 69.812 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 203.26 Mbit/s

95th percentile per-packet one-way delay: 67.547 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 195.82 Mbit/s

95th percentile per-packet one-way delay: 70.521 ms

Loss rate: 0.65%

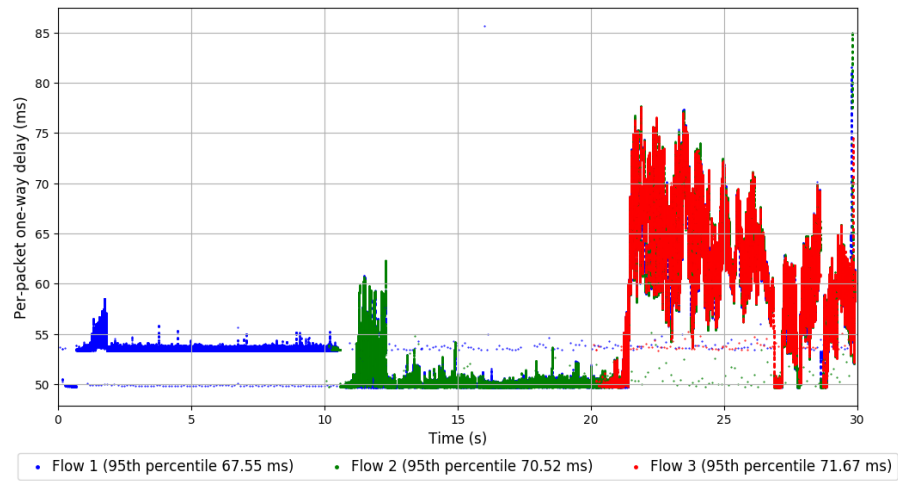
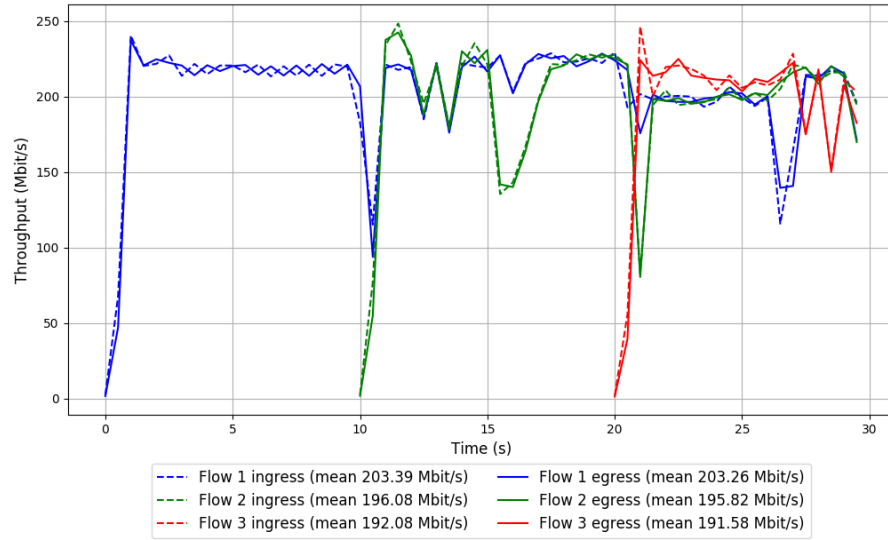
-- Flow 3:

Average throughput: 191.58 Mbit/s

95th percentile per-packet one-way delay: 71.674 ms

Loss rate: 1.30%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 17:31:14

End at: 2018-01-26 17:31:44

Below is generated by plot.py at 2018-01-26 21:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.87 Mbit/s

95th percentile per-packet one-way delay: 73.943 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 202.56 Mbit/s

95th percentile per-packet one-way delay: 69.990 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 206.87 Mbit/s

95th percentile per-packet one-way delay: 73.737 ms

Loss rate: 0.57%

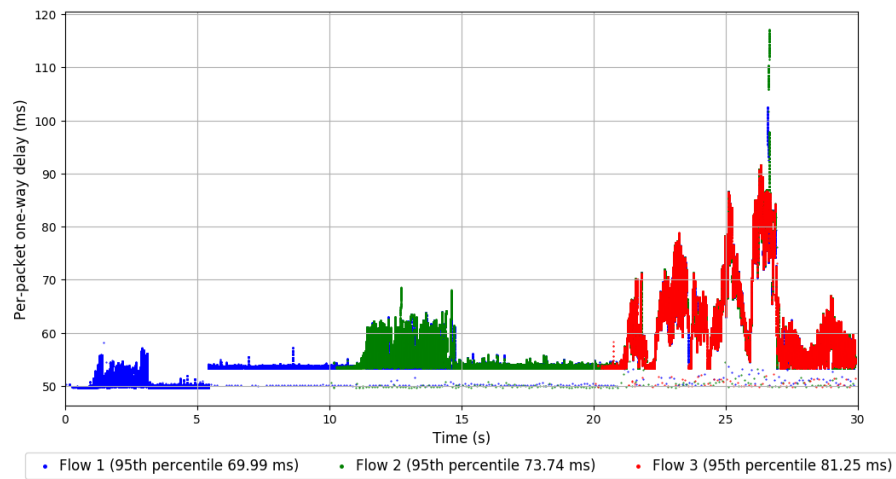
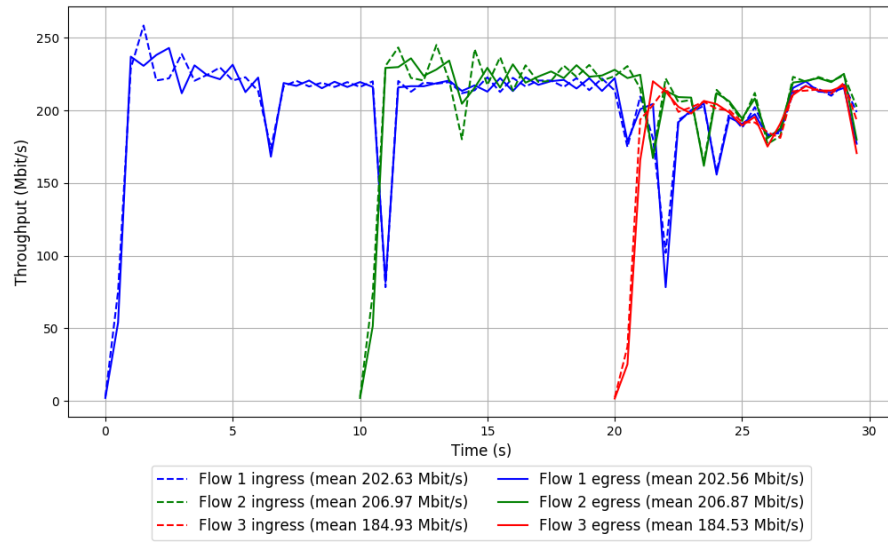
-- Flow 3:

Average throughput: 184.53 Mbit/s

95th percentile per-packet one-way delay: 81.253 ms

Loss rate: 1.27%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-26 17:45:25

End at: 2018-01-26 17:45:55

Below is generated by plot.py at 2018-01-26 21:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.35 Mbit/s

95th percentile per-packet one-way delay: 65.843 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 205.67 Mbit/s

95th percentile per-packet one-way delay: 64.456 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 204.85 Mbit/s

95th percentile per-packet one-way delay: 65.865 ms

Loss rate: 0.62%

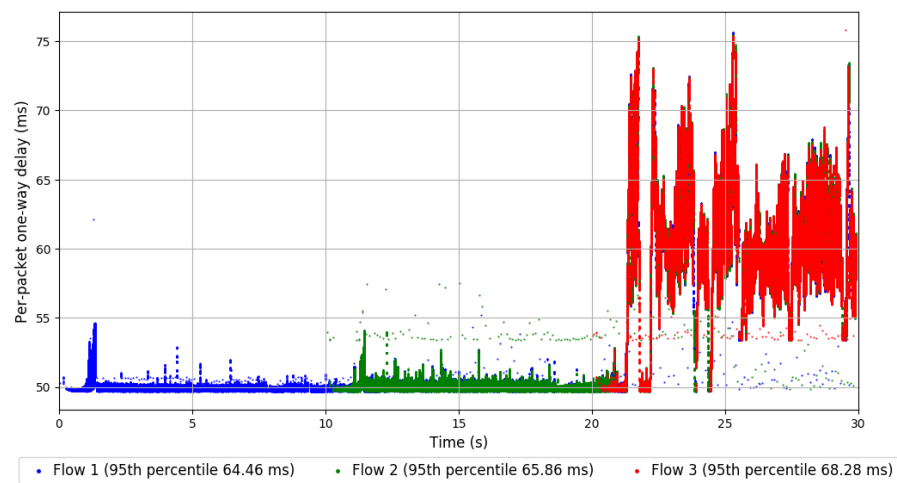
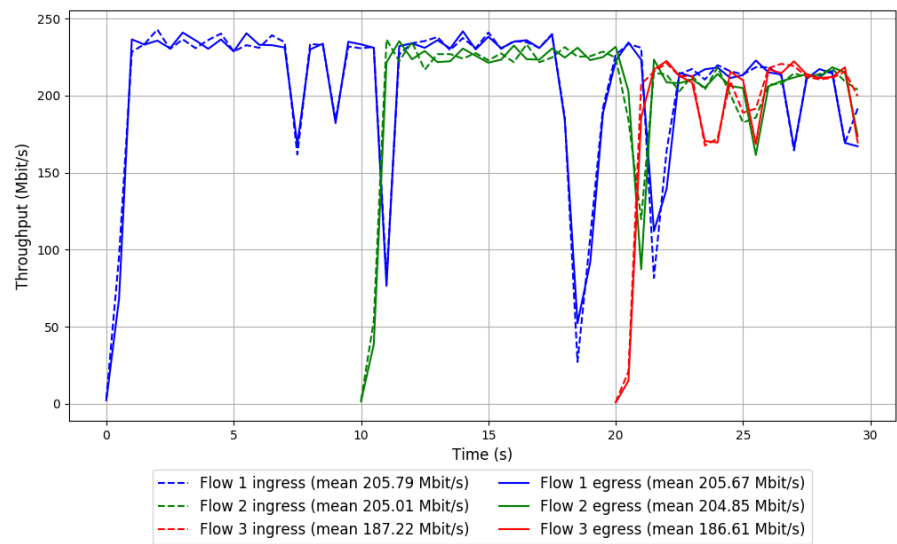
-- Flow 3:

Average throughput: 186.61 Mbit/s

95th percentile per-packet one-way delay: 68.280 ms

Loss rate: 1.40%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 17:59:10

End at: 2018-01-26 17:59:40

Below is generated by plot.py at 2018-01-26 21:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.65 Mbit/s

95th percentile per-packet one-way delay: 70.615 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 206.10 Mbit/s

95th percentile per-packet one-way delay: 68.655 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 202.76 Mbit/s

95th percentile per-packet one-way delay: 70.579 ms

Loss rate: 0.52%

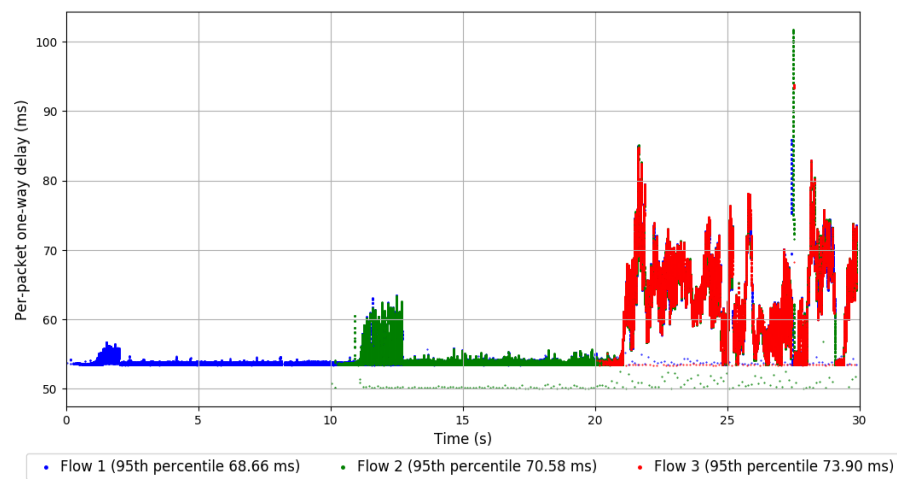
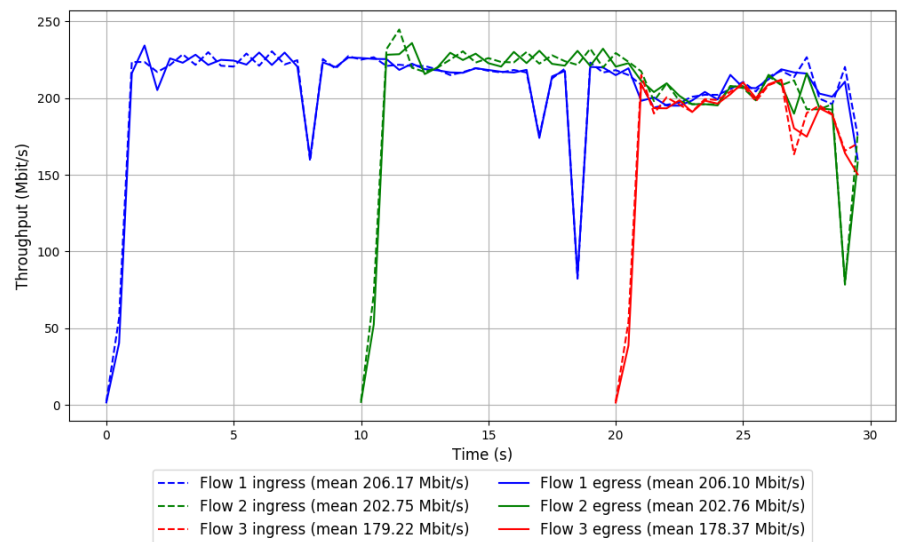
-- Flow 3:

Average throughput: 178.37 Mbit/s

95th percentile per-packet one-way delay: 73.896 ms

Loss rate: 1.28%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 18:13:02

End at: 2018-01-26 18:13:32

Below is generated by plot.py at 2018-01-26 21:16:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.71 Mbit/s

95th percentile per-packet one-way delay: 78.596 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 201.78 Mbit/s

95th percentile per-packet one-way delay: 76.243 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 194.84 Mbit/s

95th percentile per-packet one-way delay: 78.245 ms

Loss rate: 0.66%

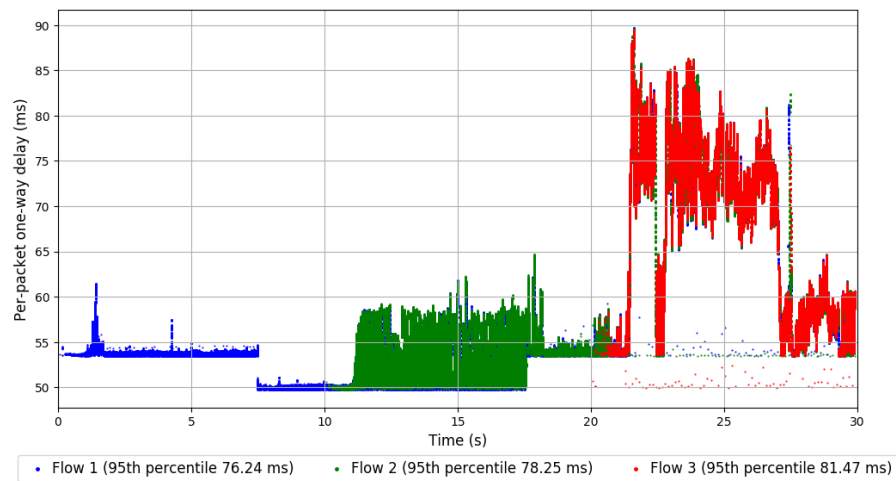
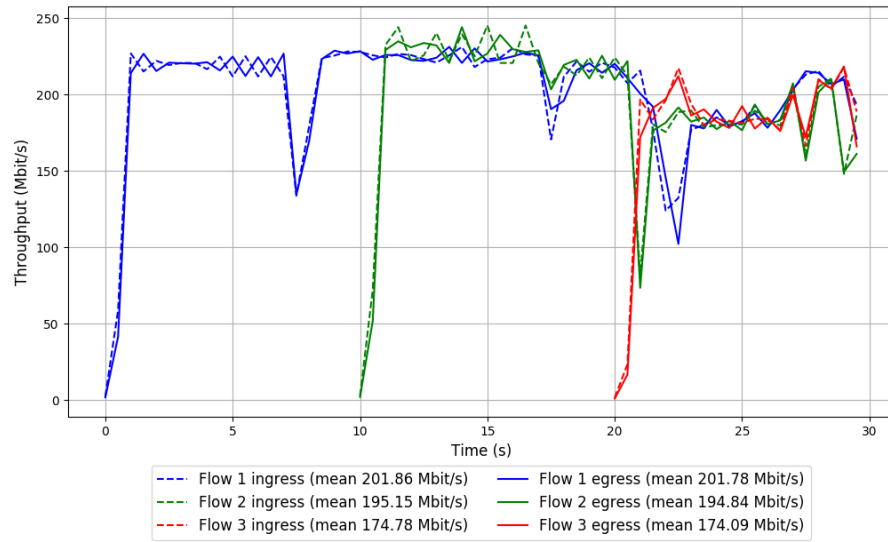
-- Flow 3:

Average throughput: 174.09 Mbit/s

95th percentile per-packet one-way delay: 81.472 ms

Loss rate: 1.41%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 18:27:24

End at: 2018-01-26 18:27:54

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.59 Mbit/s

95th percentile per-packet one-way delay: 54.932 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 209.72 Mbit/s

95th percentile per-packet one-way delay: 55.068 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 205.87 Mbit/s

95th percentile per-packet one-way delay: 54.471 ms

Loss rate: 0.58%

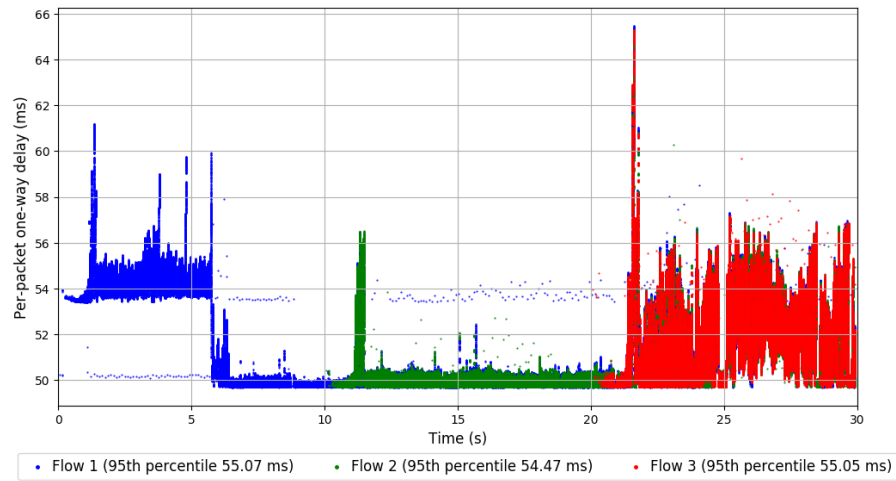
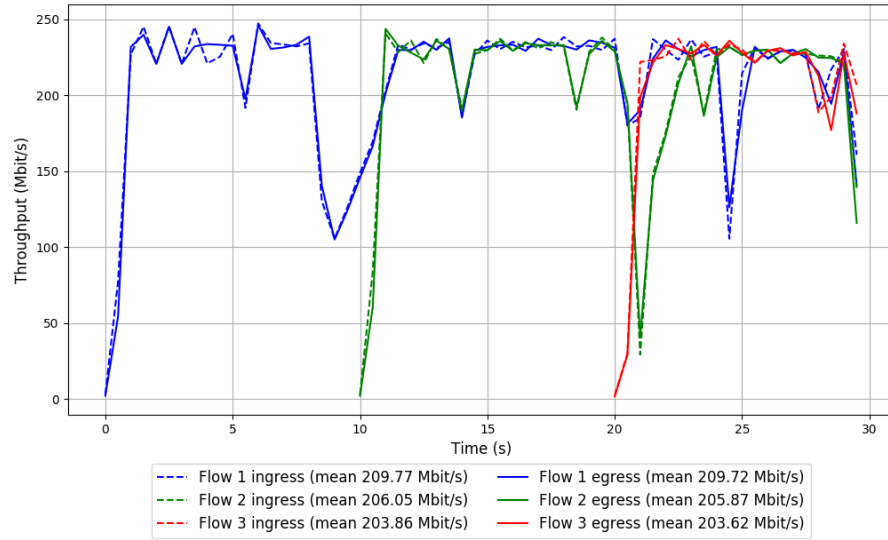
-- Flow 3:

Average throughput: 203.62 Mbit/s

95th percentile per-packet one-way delay: 55.047 ms

Loss rate: 1.17%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 16:19:03

End at: 2018-01-26 16:19:34

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.38 Mbit/s

95th percentile per-packet one-way delay: 59.642 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 97.87 Mbit/s

95th percentile per-packet one-way delay: 58.132 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 127.08 Mbit/s

95th percentile per-packet one-way delay: 59.961 ms

Loss rate: 0.32%

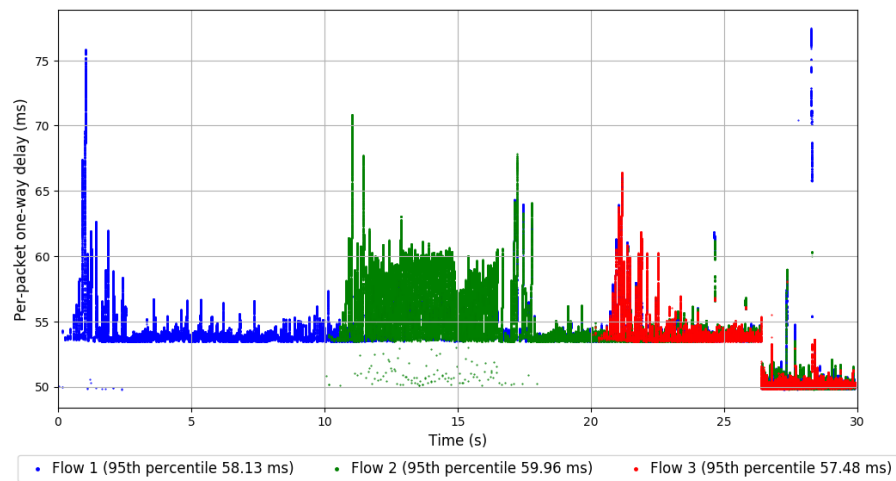
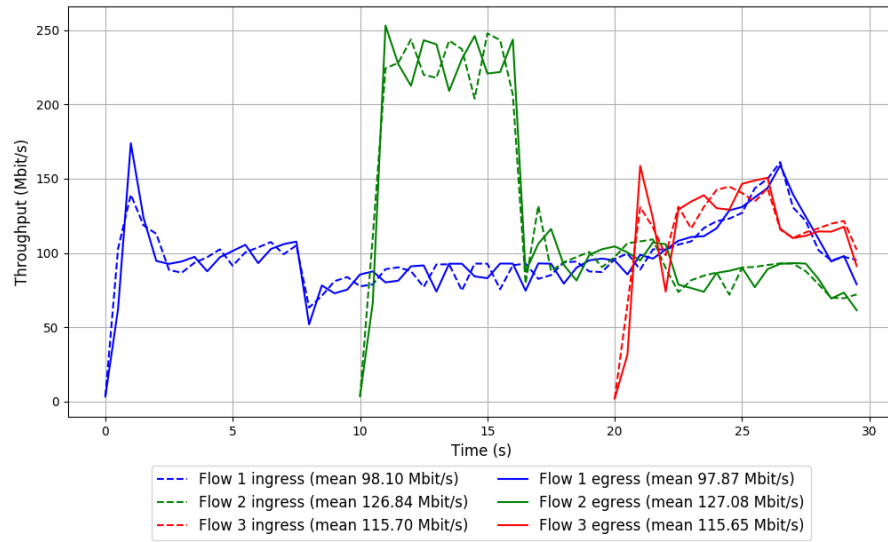
-- Flow 3:

Average throughput: 115.65 Mbit/s

95th percentile per-packet one-way delay: 57.484 ms

Loss rate: 1.09%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 16:33:19

End at: 2018-01-26 16:33:49

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.82 Mbit/s

95th percentile per-packet one-way delay: 55.869 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 98.96 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 119.74 Mbit/s

95th percentile per-packet one-way delay: 56.458 ms

Loss rate: 0.47%

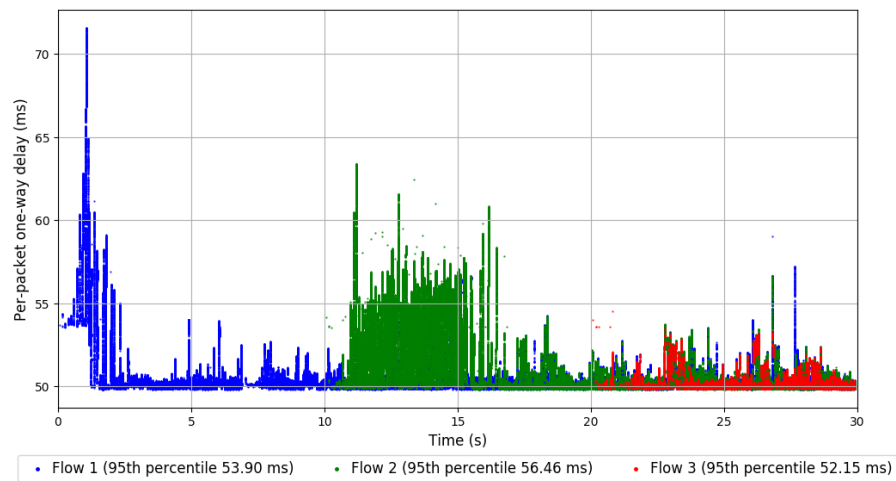
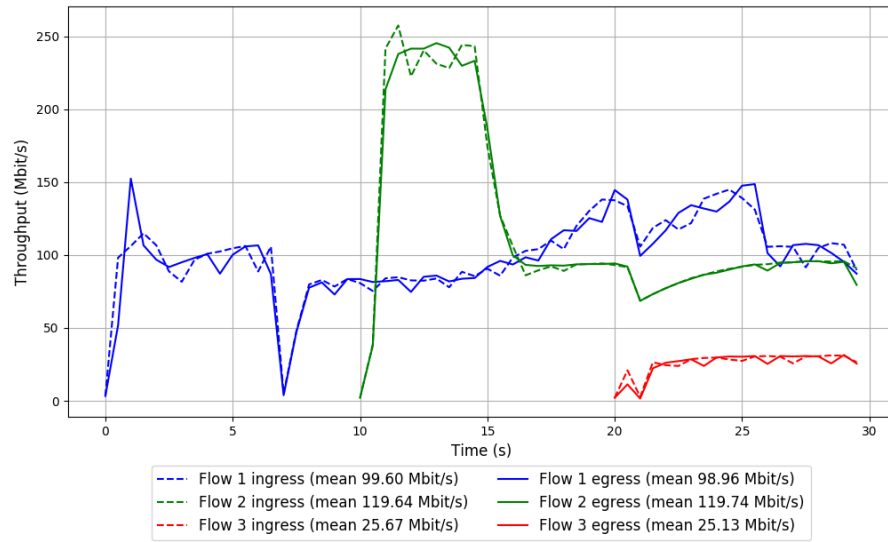
-- Flow 3:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 52.154 ms

Loss rate: 3.17%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 16:47:29

End at: 2018-01-26 16:47:59

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.98 Mbit/s

95th percentile per-packet one-way delay: 55.007 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 54.762 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 96.65 Mbit/s

95th percentile per-packet one-way delay: 55.409 ms

Loss rate: 0.41%

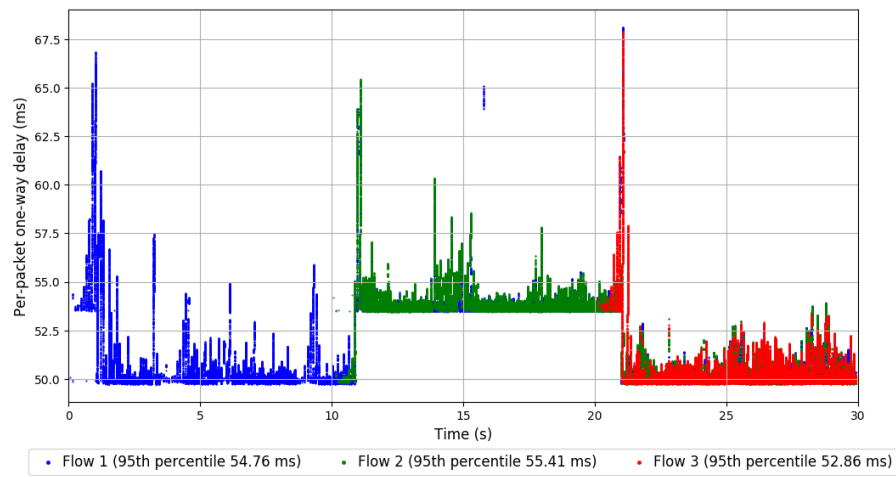
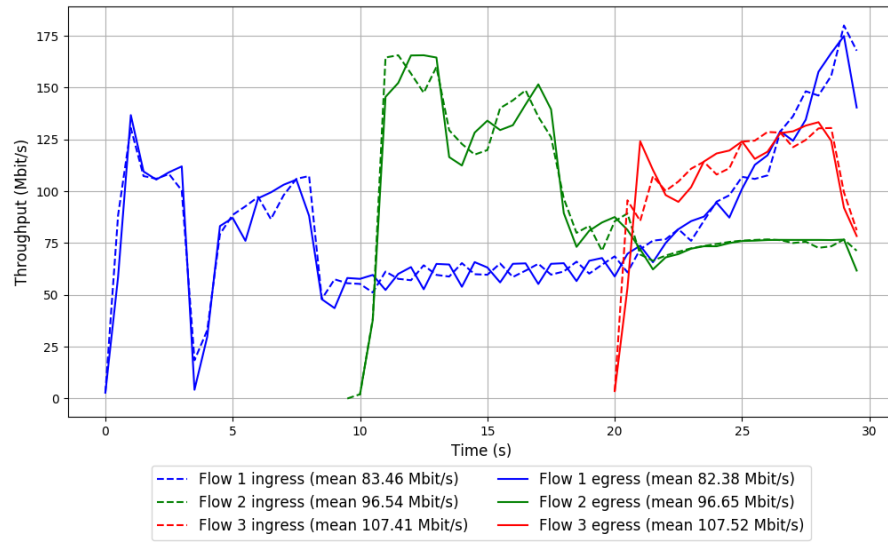
-- Flow 3:

Average throughput: 107.52 Mbit/s

95th percentile per-packet one-way delay: 52.859 ms

Loss rate: 0.94%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 17:01:29

End at: 2018-01-26 17:01:59

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.96 Mbit/s

95th percentile per-packet one-way delay: 57.321 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 79.41 Mbit/s

95th percentile per-packet one-way delay: 56.285 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 125.61 Mbit/s

95th percentile per-packet one-way delay: 57.161 ms

Loss rate: 0.39%

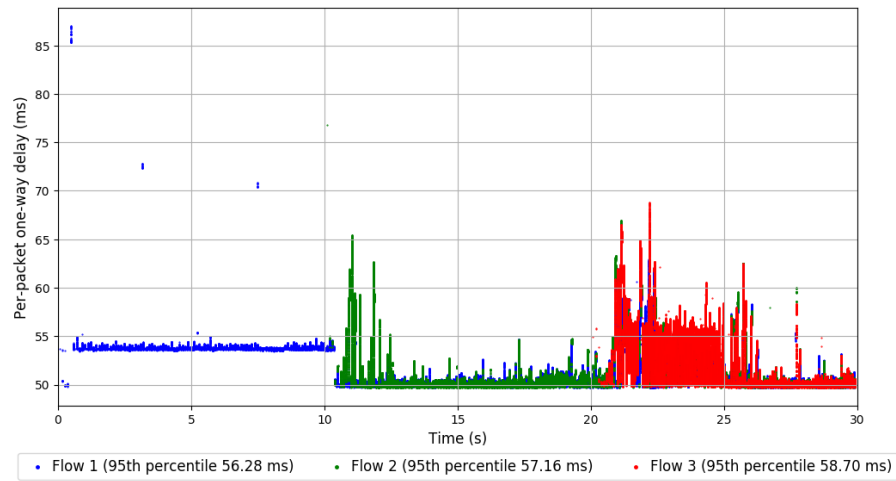
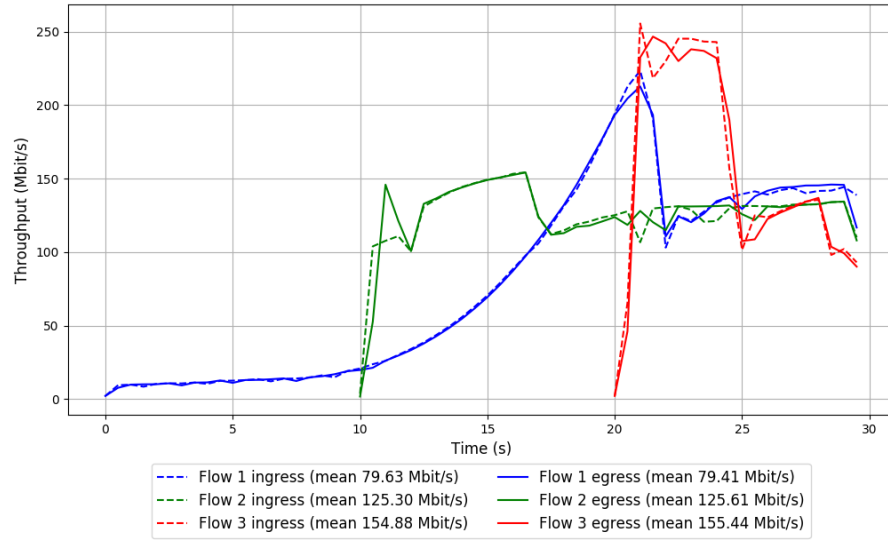
-- Flow 3:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 58.697 ms

Loss rate: 0.69%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 17:15:25

End at: 2018-01-26 17:15:55

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.36 Mbit/s

95th percentile per-packet one-way delay: 57.496 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 110.32 Mbit/s

95th percentile per-packet one-way delay: 56.702 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 103.01 Mbit/s

95th percentile per-packet one-way delay: 57.015 ms

Loss rate: 0.52%

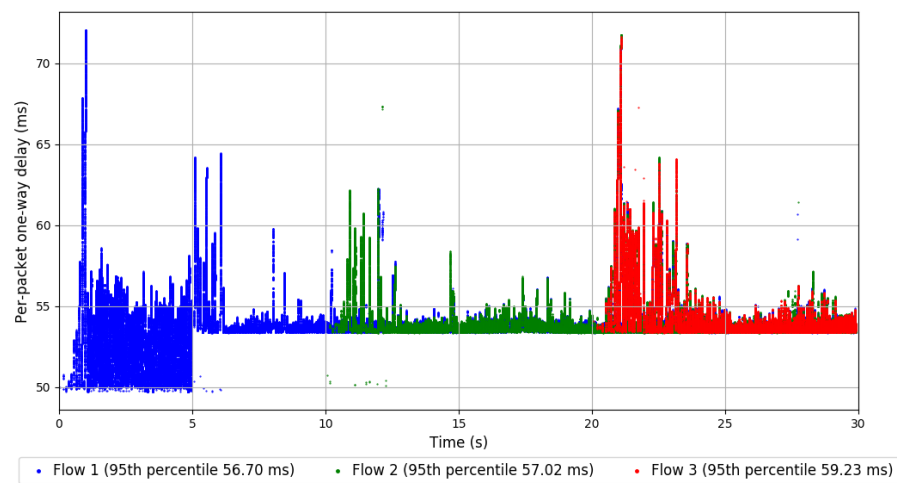
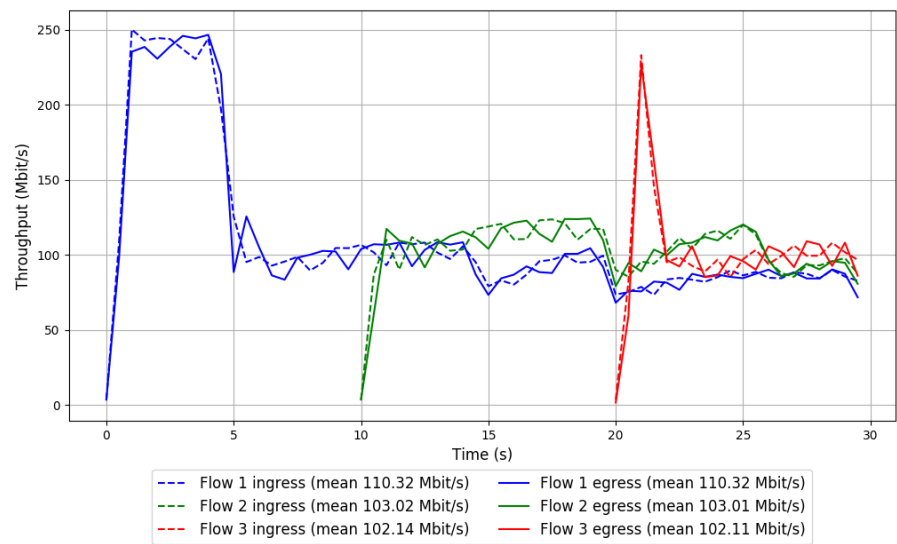
-- Flow 3:

Average throughput: 102.11 Mbit/s

95th percentile per-packet one-way delay: 59.226 ms

Loss rate: 1.11%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 17:29:21

End at: 2018-01-26 17:29:51

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.49 Mbit/s

95th percentile per-packet one-way delay: 57.036 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 87.61 Mbit/s

95th percentile per-packet one-way delay: 58.721 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 104.82 Mbit/s

95th percentile per-packet one-way delay: 55.974 ms

Loss rate: 1.12%

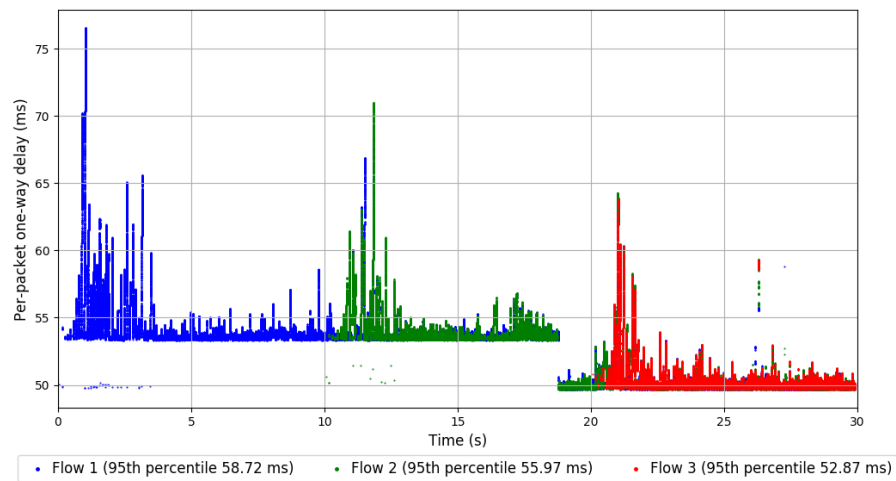
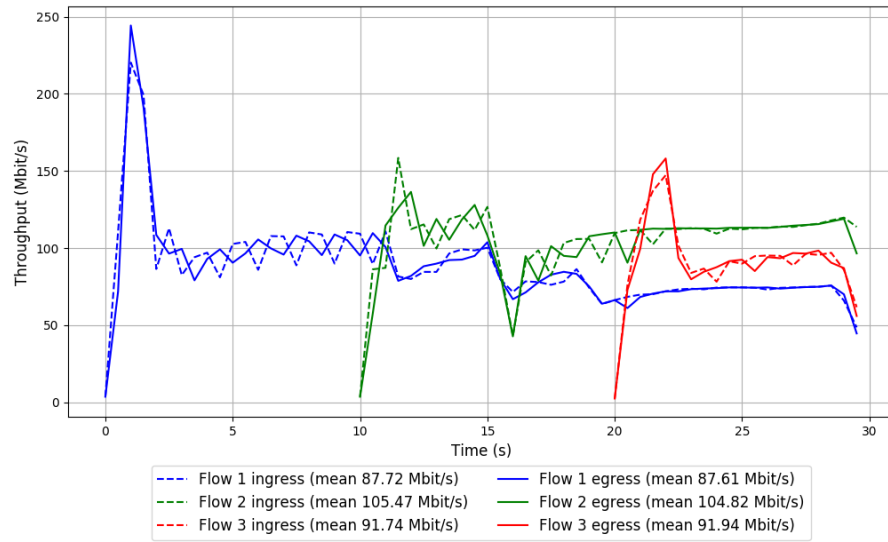
-- Flow 3:

Average throughput: 91.94 Mbit/s

95th percentile per-packet one-way delay: 52.869 ms

Loss rate: 0.82%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 17:43:33

End at: 2018-01-26 17:44:03

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.43 Mbit/s

95th percentile per-packet one-way delay: 56.017 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 57.968 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 54.202 ms

Loss rate: 0.49%

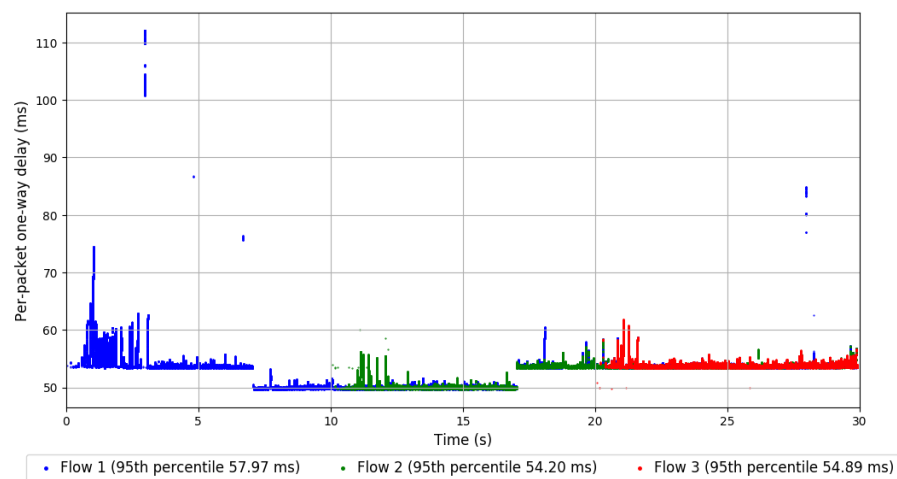
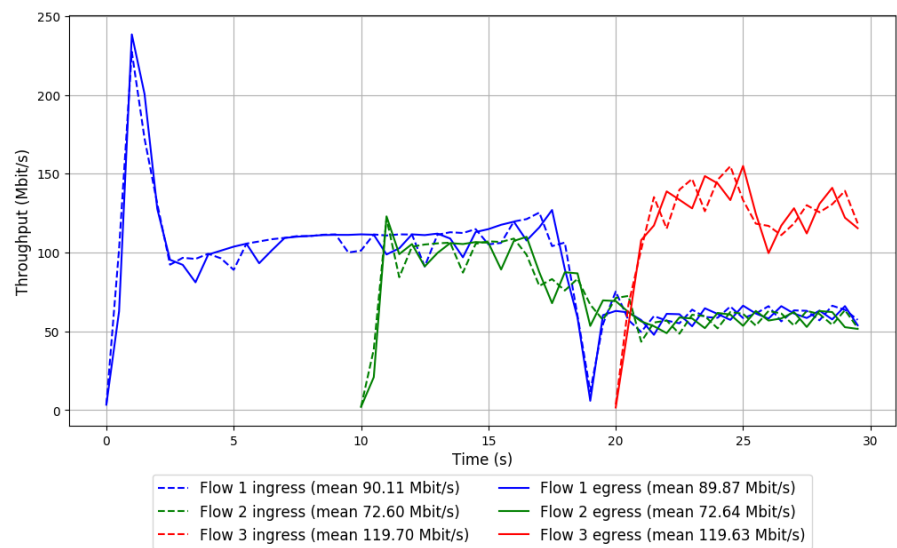
-- Flow 3:

Average throughput: 119.63 Mbit/s

95th percentile per-packet one-way delay: 54.891 ms

Loss rate: 1.08%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 17:57:16

End at: 2018-01-26 17:57:46

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.90 Mbit/s

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

Loss rate: 0.43%

-- Flow 1:

Average throughput: 125.51 Mbit/s

95th percentile per-packet one-way delay: 58.699 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 88.69 Mbit/s

95th percentile per-packet one-way delay: 58.278 ms

Loss rate: 0.50%

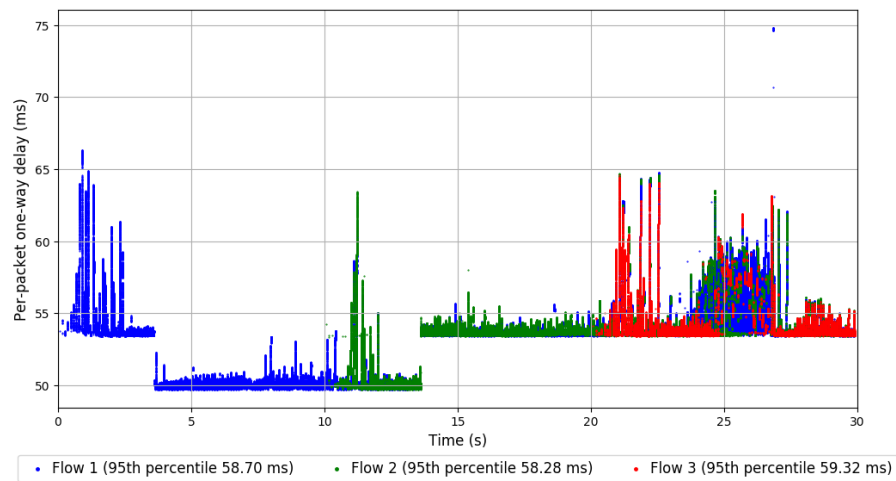
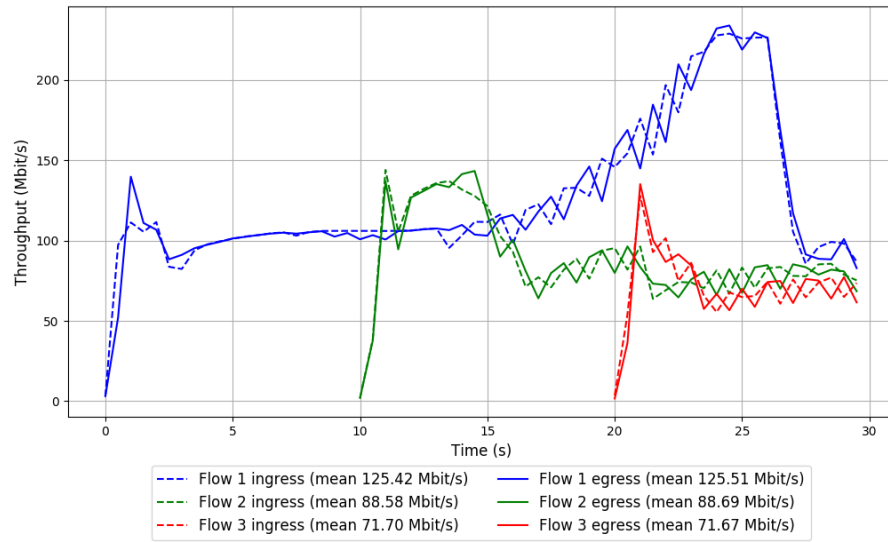
-- Flow 3:

Average throughput: 71.67 Mbit/s

95th percentile per-packet one-way delay: 59.324 ms

Loss rate: 1.07%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 18:11:08

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

Below is generated by plot.py at 2018-01-26 21:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.15 Mbit/s

95th percentile per-packet one-way delay: 55.736 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 55.084 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 131.43 Mbit/s

95th percentile per-packet one-way delay: 56.370 ms

Loss rate: 0.42%

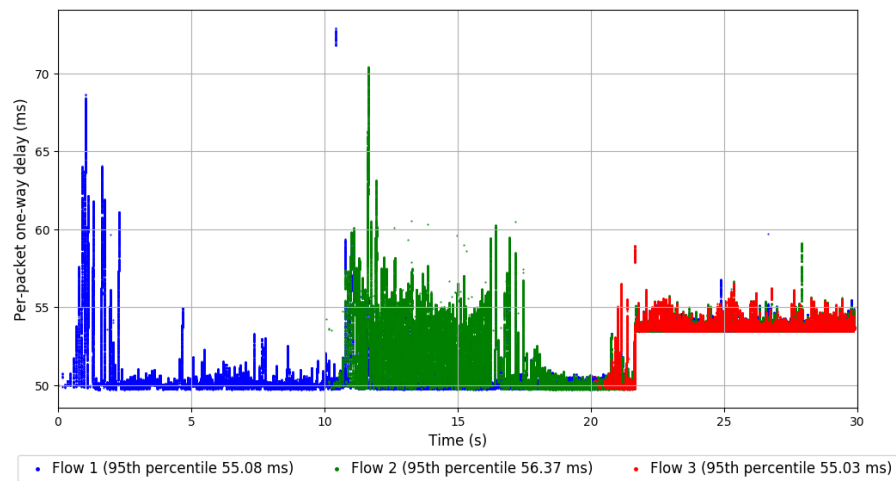
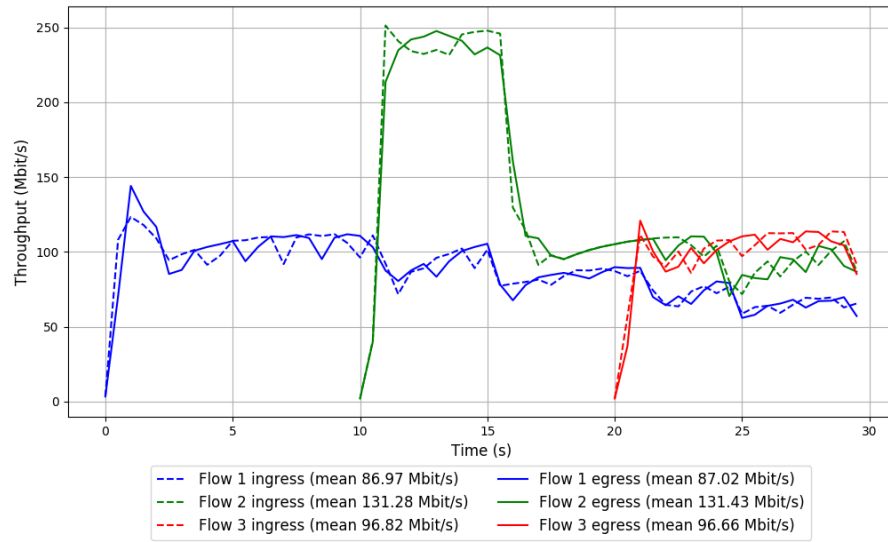
-- Flow 3:

Average throughput: 96.66 Mbit/s

95th percentile per-packet one-way delay: 55.030 ms

Loss rate: 1.17%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 18:25:29

End at: 2018-01-26 18:25:59

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.73 Mbit/s

95th percentile per-packet one-way delay: 59.875 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 127.52 Mbit/s

95th percentile per-packet one-way delay: 59.776 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 111.66 Mbit/s

95th percentile per-packet one-way delay: 59.202 ms

Loss rate: 0.38%

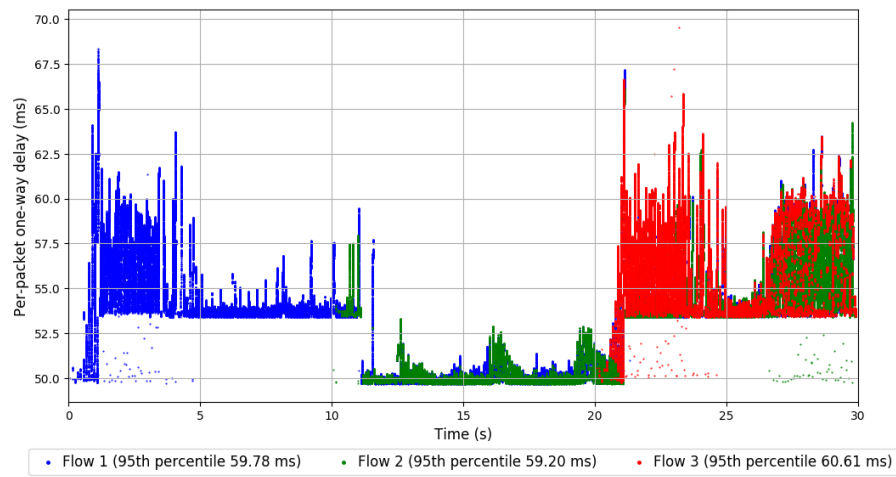
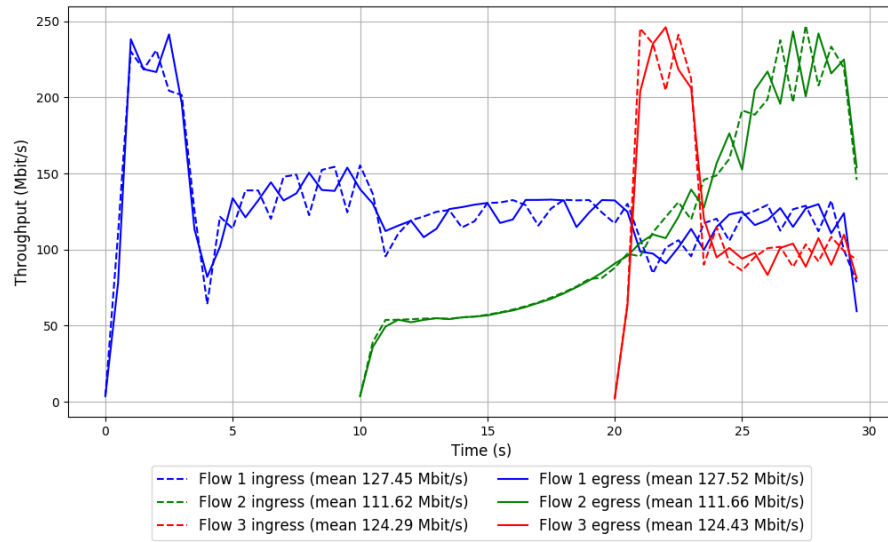
-- Flow 3:

Average throughput: 124.43 Mbit/s

95th percentile per-packet one-way delay: 60.612 ms

Loss rate: 0.90%

Run 10: Report of TCP Cubic — Data Link

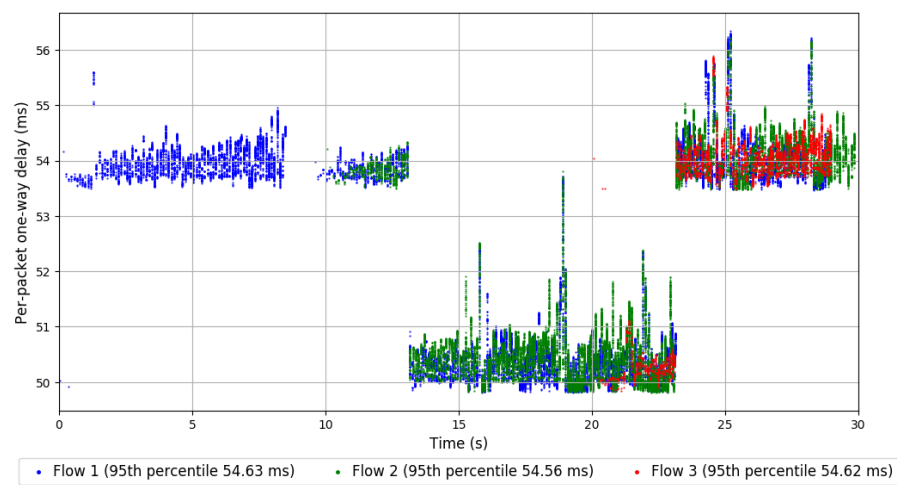
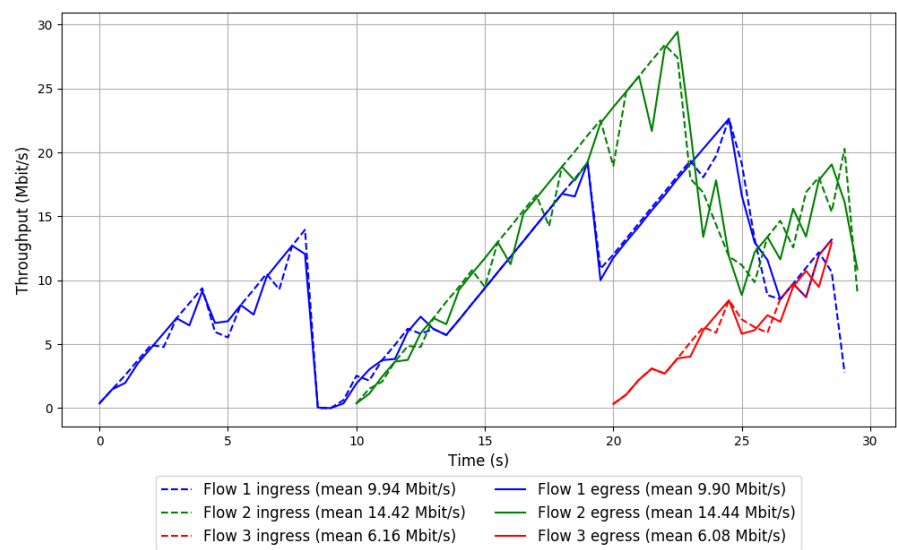


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 16:24:47
End at: 2018-01-26 16:25:17

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 54.585 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 54.632 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 14.44 Mbit/s
95th percentile per-packet one-way delay: 54.556 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 54.615 ms
Loss rate: 2.48%
```


Run 1: Report of LEDBAT — Data Link

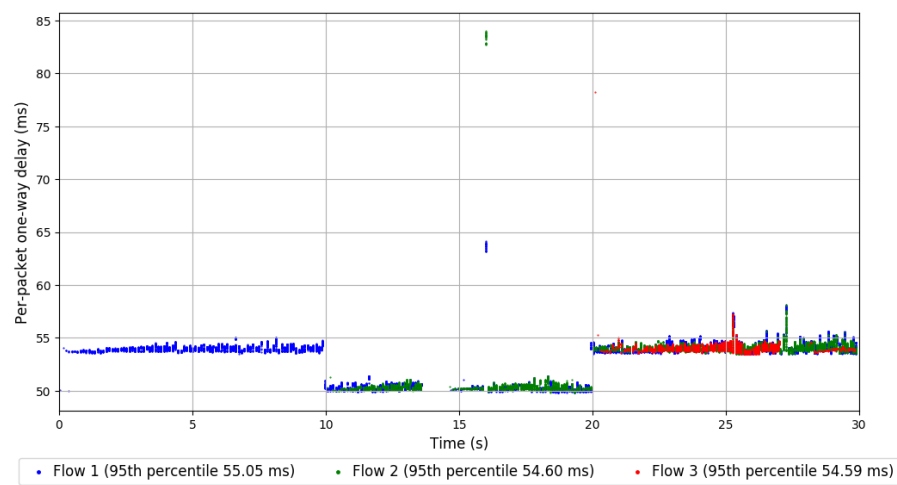
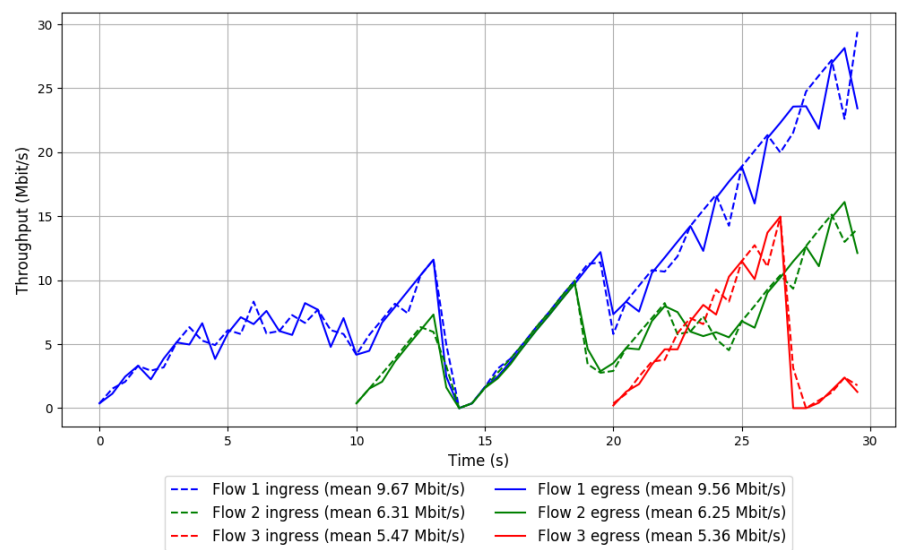


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 16:39:00
End at: 2018-01-26 16:39:30

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 54.892 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 55.046 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 54.596 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 54.585 ms
Loss rate: 3.39%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 16:53:10

End at: 2018-01-26 16:53:40

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 54.524 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 54.449 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 54.367 ms

Loss rate: 1.96%

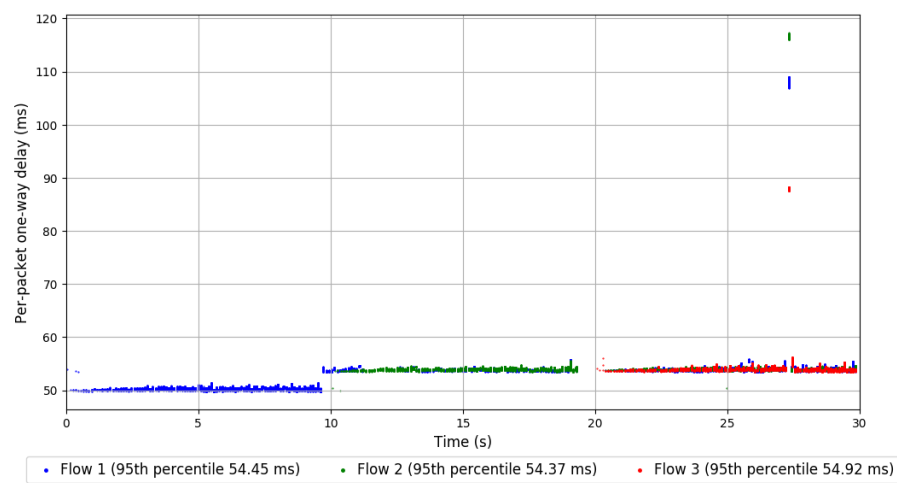
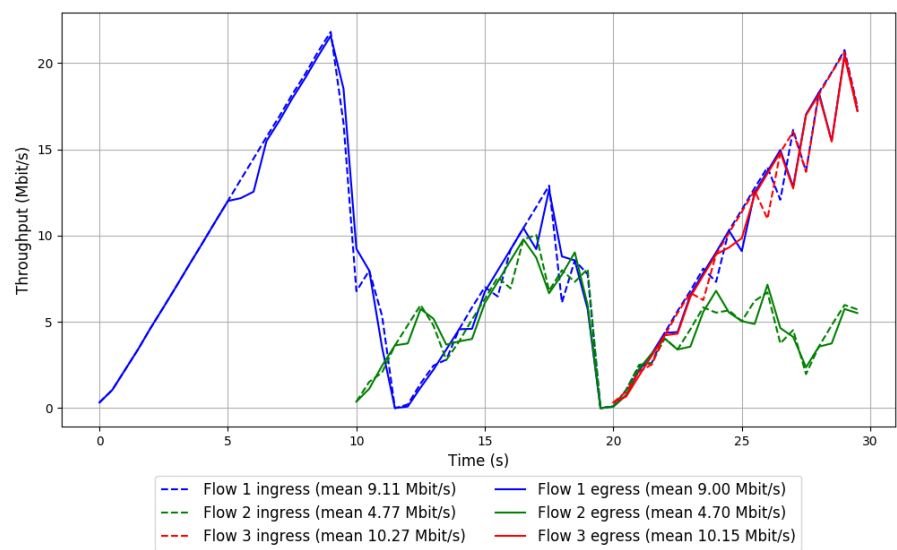
-- Flow 3:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 54.916 ms

Loss rate: 2.19%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 17:07:14

End at: 2018-01-26 17:07:44

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 54.315 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 54.184 ms

Loss rate: 2.09%

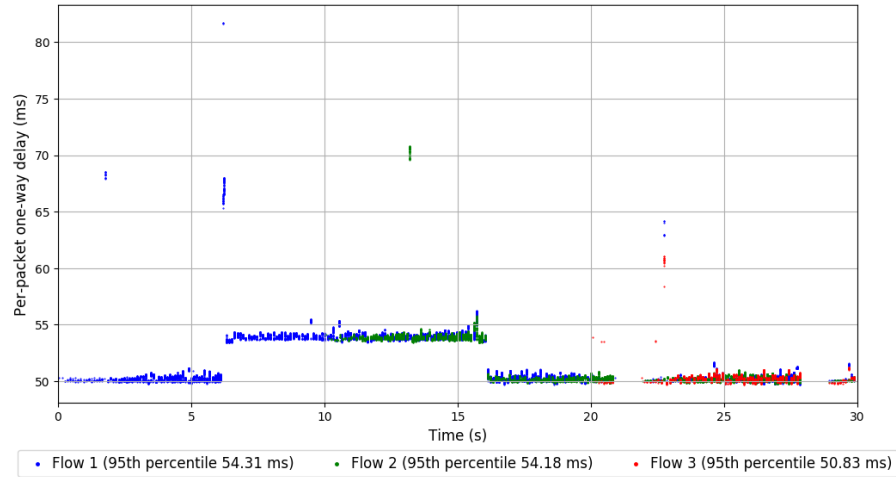
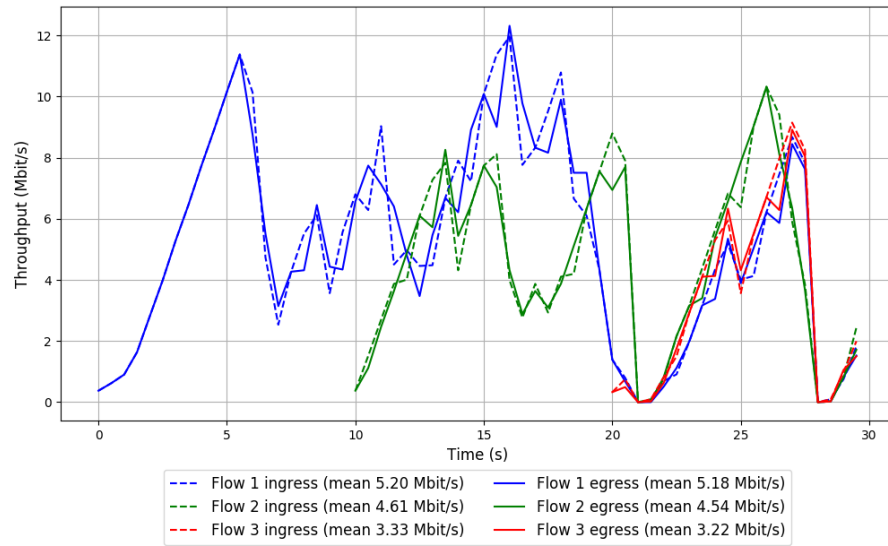
-- Flow 3:

Average throughput: 3.22 Mbit/s

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

Loss rate: 4.37%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 17:21:04

End at: 2018-01-26 17:21:34

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.04 Mbit/s

95th percentile per-packet one-way delay: 51.399 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 51.036 ms

Loss rate: 0.51%

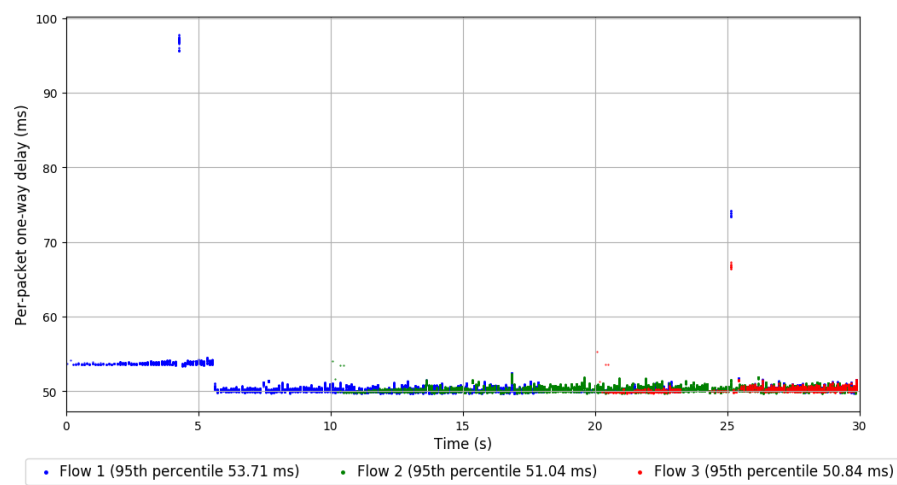
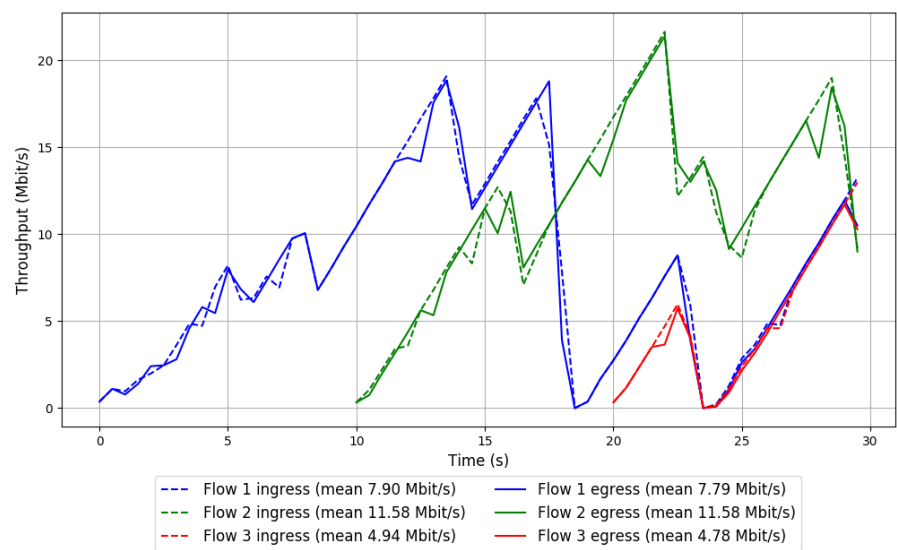
-- Flow 3:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 50.843 ms

Loss rate: 4.22%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

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

End at: 2018-01-26 17:35:31

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.23 Mbit/s

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

Loss rate: 2.61%

-- Flow 1:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 54.320 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 54.293 ms

Loss rate: 3.81%

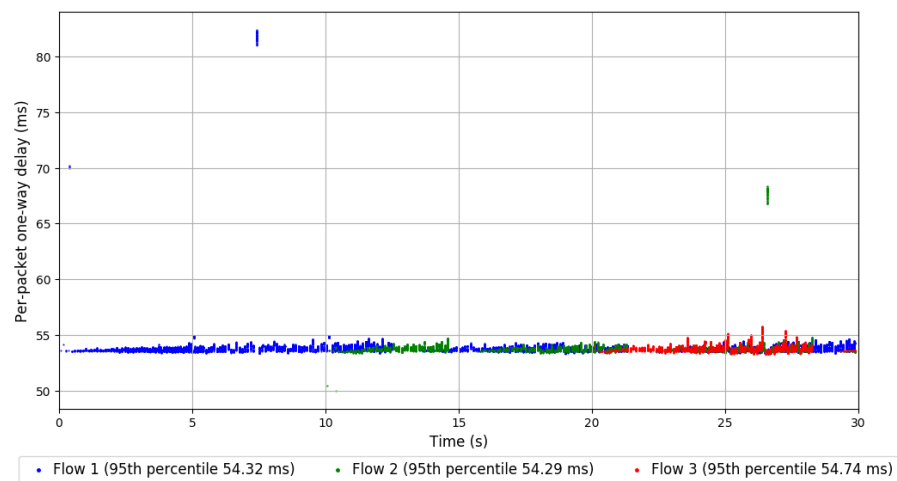
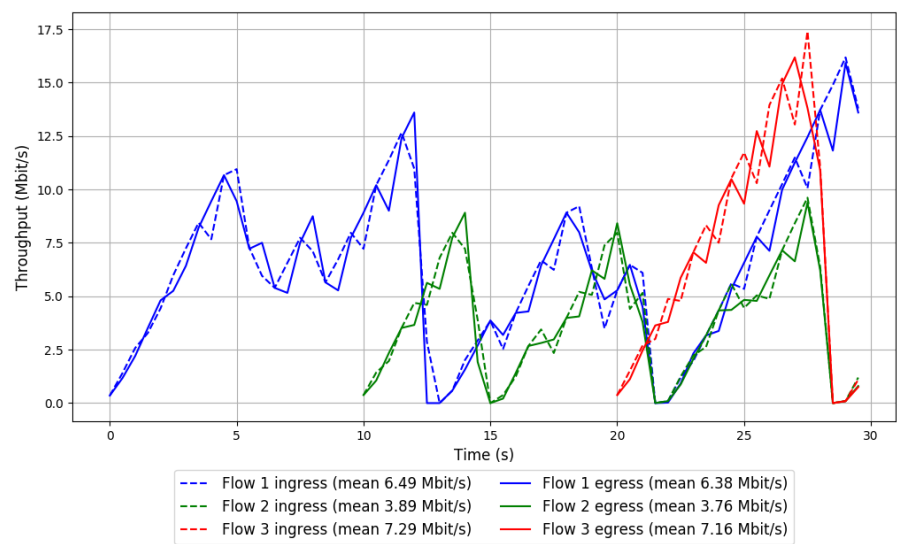
-- Flow 3:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 54.743 ms

Loss rate: 2.82%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 17:49:10

End at: 2018-01-26 17:49:40

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 54.293 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 54.350 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 54.290 ms

Loss rate: 1.44%

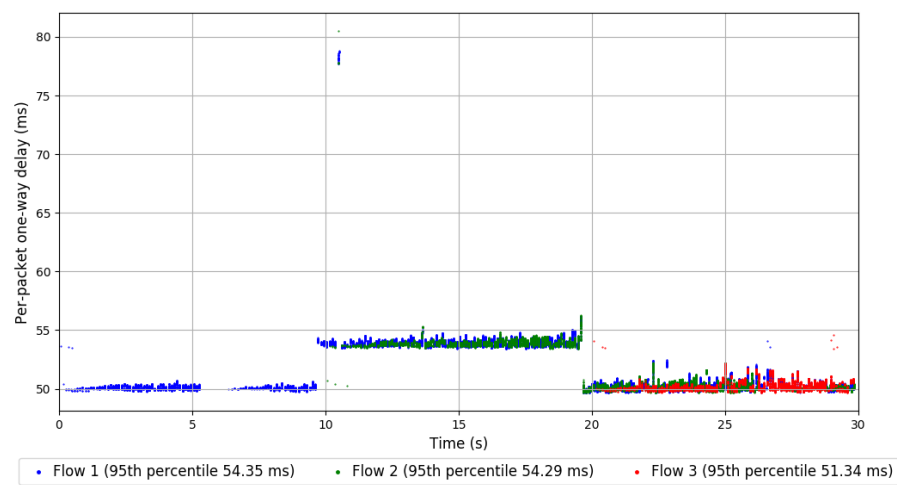
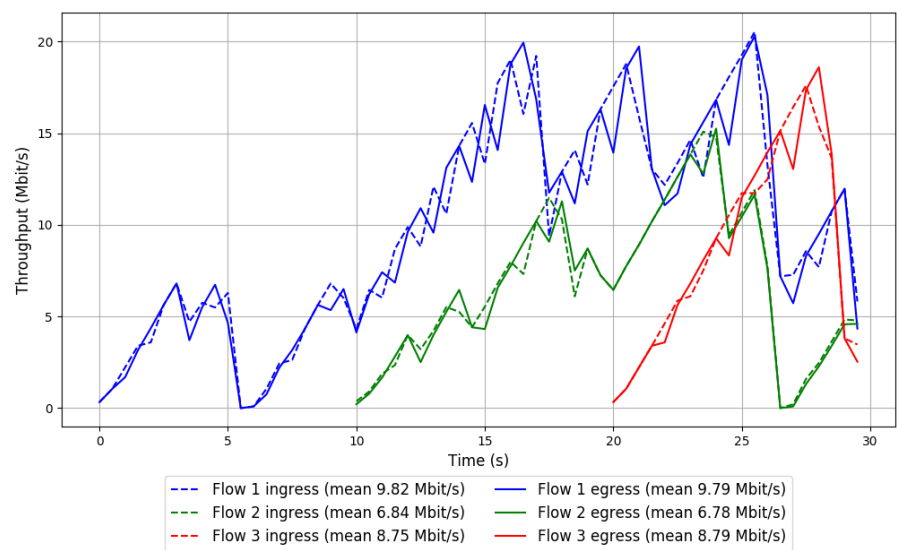
-- Flow 3:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 51.335 ms

Loss rate: 0.64%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 18:02:56

End at: 2018-01-26 18:03:26

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.06 Mbit/s

95th percentile per-packet one-way delay: 54.932 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 55.039 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 54.815 ms

Loss rate: 0.44%

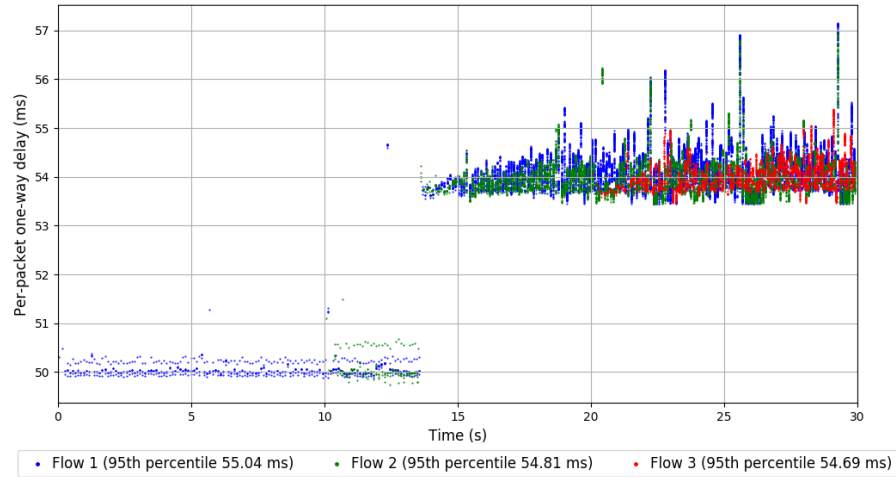
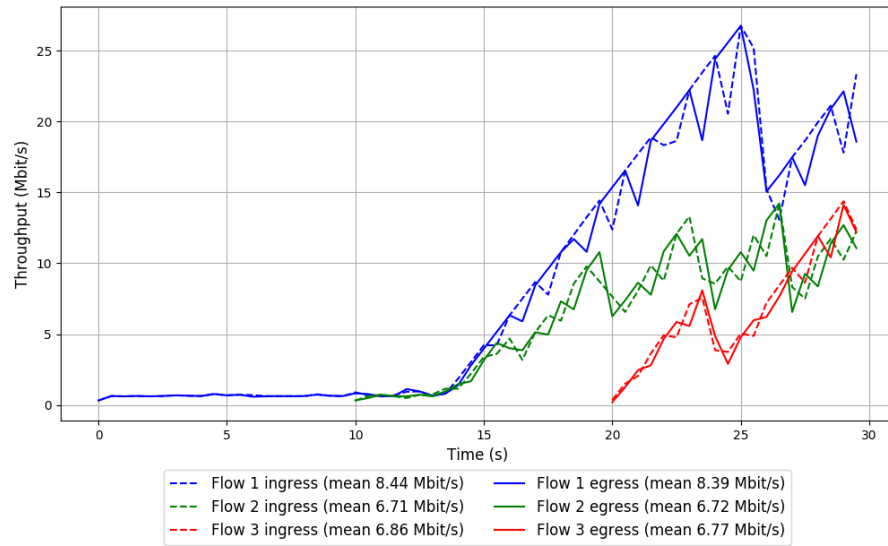
-- Flow 3:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 54.690 ms

Loss rate: 2.34%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 18:16:49

End at: 2018-01-26 18:17:19

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 54.212 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 54.150 ms

Loss rate: 2.03%

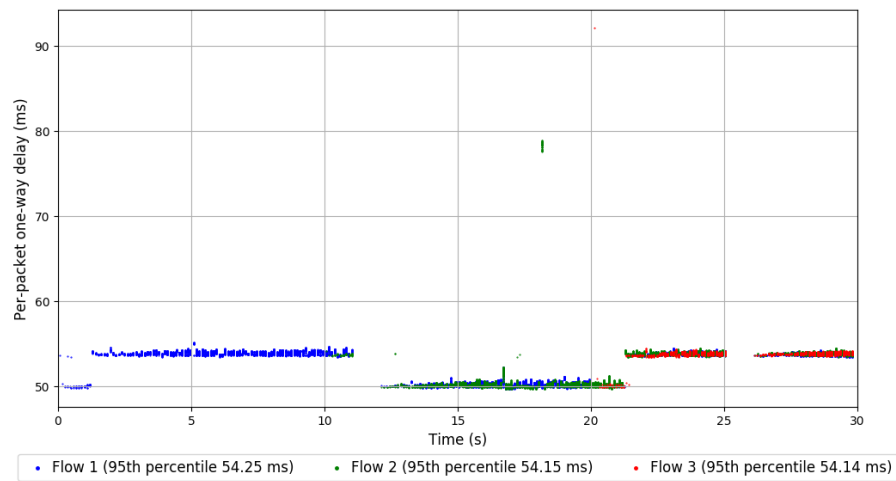
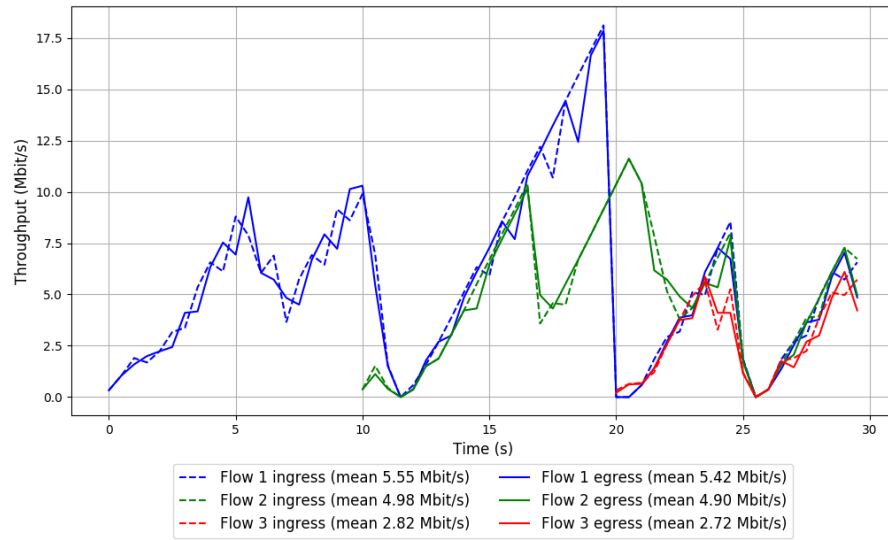
-- Flow 3:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 54.138 ms

Loss rate: 4.87%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 18:31:14

End at: 2018-01-26 18:31:44

Below is generated by plot.py at 2018-01-26 21:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 1.54%

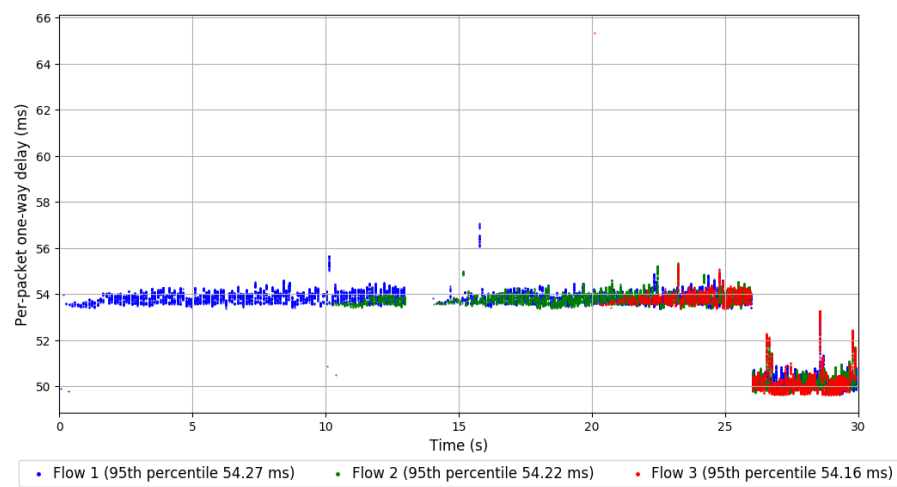
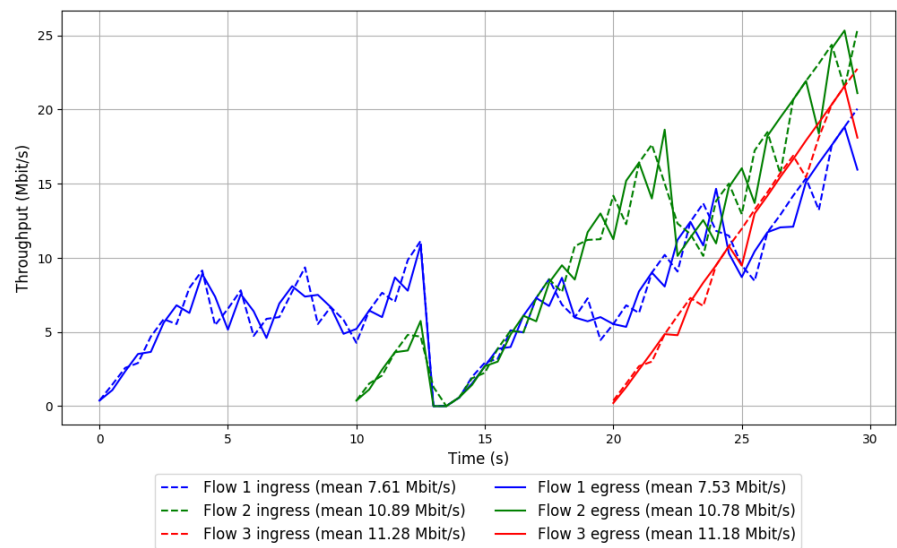
-- Flow 3:

Average throughput: 11.18 Mbit/s

95th percentile per-packet one-way delay: 54.164 ms

Loss rate: 2.08%

Run 10: Report of LEDBAT — Data Link

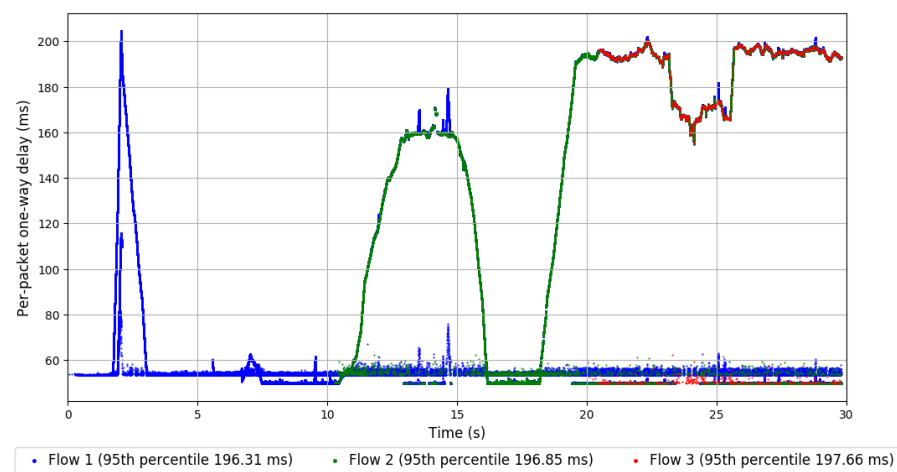
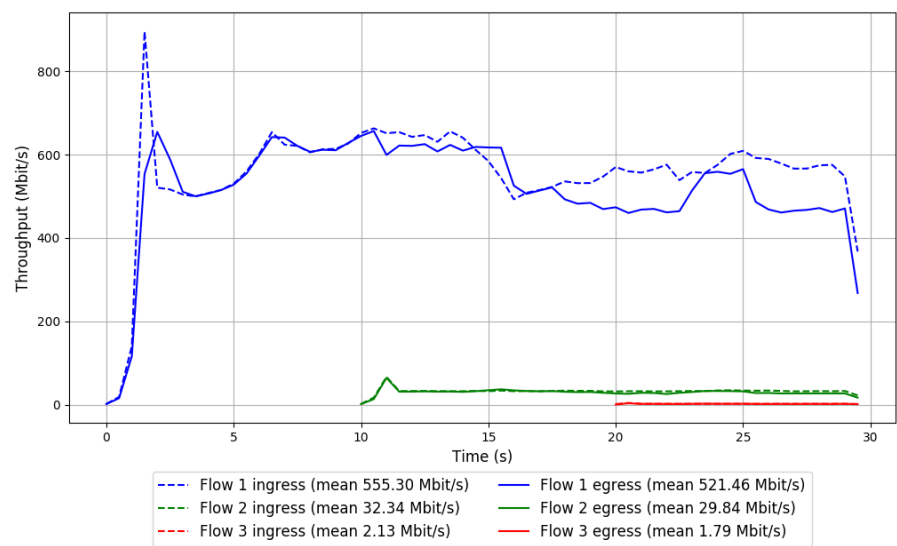


```
Run 1: Statistics of PCC

Start at: 2018-01-26 16:15:13
End at: 2018-01-26 16:15:43

# Below is generated by plot.py at 2018-01-26 21:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 541.84 Mbit/s
95th percentile per-packet one-way delay: 196.337 ms
Loss rate: 6.50%
-- Flow 1:
Average throughput: 521.46 Mbit/s
95th percentile per-packet one-way delay: 196.313 ms
Loss rate: 6.43%
-- Flow 2:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 196.850 ms
Loss rate: 8.22%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 197.657 ms
Loss rate: 16.87%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-26 16:29:32

End at: 2018-01-26 16:30:02

Below is generated by plot.py at 2018-01-26 21:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 608.15 Mbit/s

95th percentile per-packet one-way delay: 154.530 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 559.42 Mbit/s

95th percentile per-packet one-way delay: 154.458 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 158.927 ms

Loss rate: 0.77%

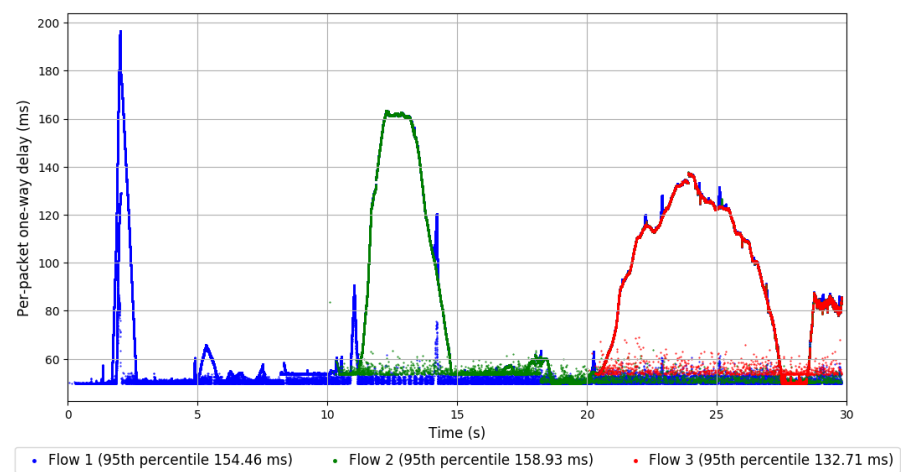
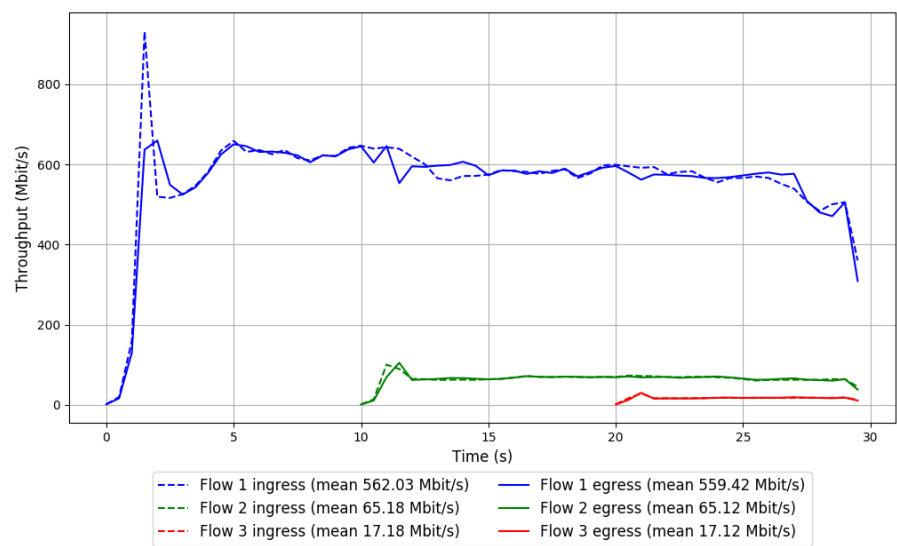
-- Flow 3:

Average throughput: 17.12 Mbit/s

95th percentile per-packet one-way delay: 132.708 ms

Loss rate: 1.43%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 16:43:42

End at: 2018-01-26 16:44:12

Below is generated by plot.py at 2018-01-26 21:25:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 494.22 Mbit/s

95th percentile per-packet one-way delay: 188.548 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 472.09 Mbit/s

95th percentile per-packet one-way delay: 188.603 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 187.520 ms

Loss rate: 1.35%

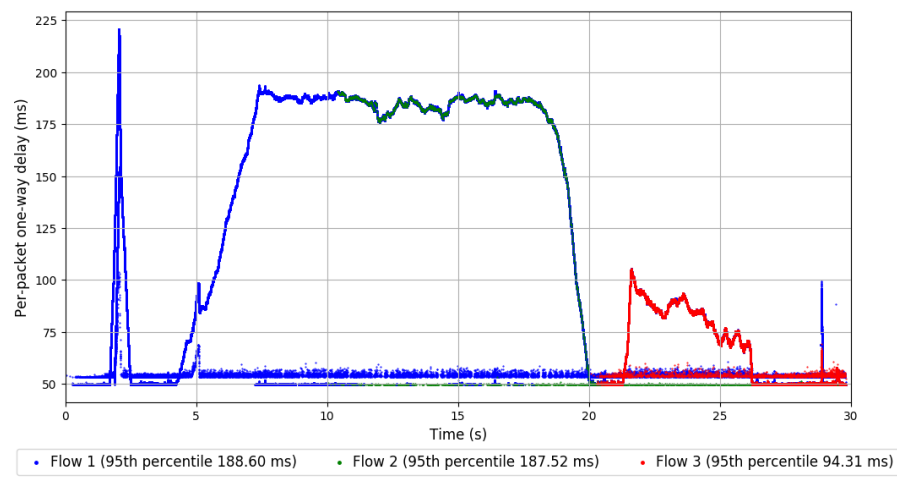
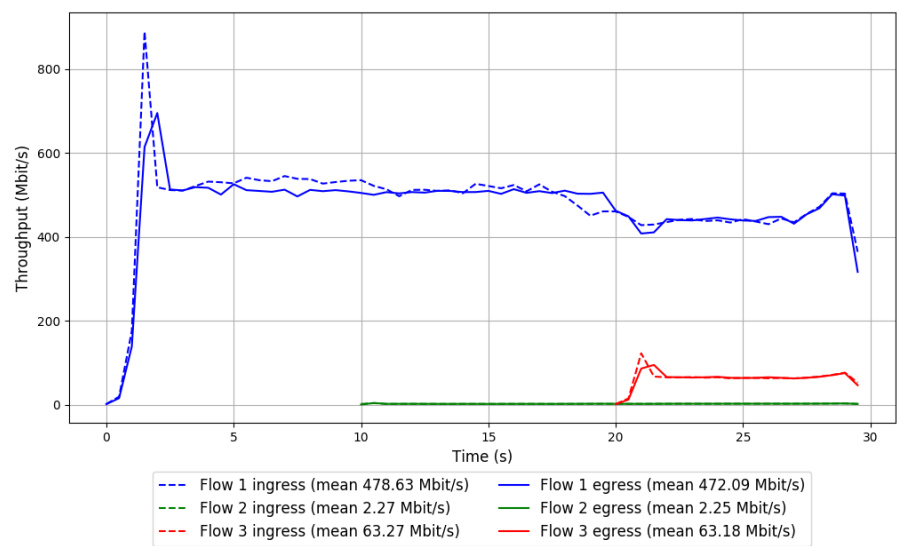
-- Flow 3:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 94.311 ms

Loss rate: 1.19%

Run 3: Report of PCC — Data Link

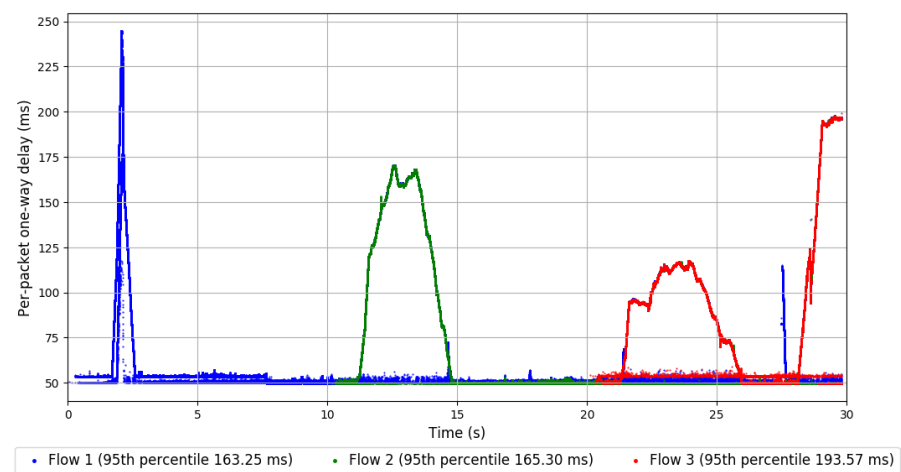
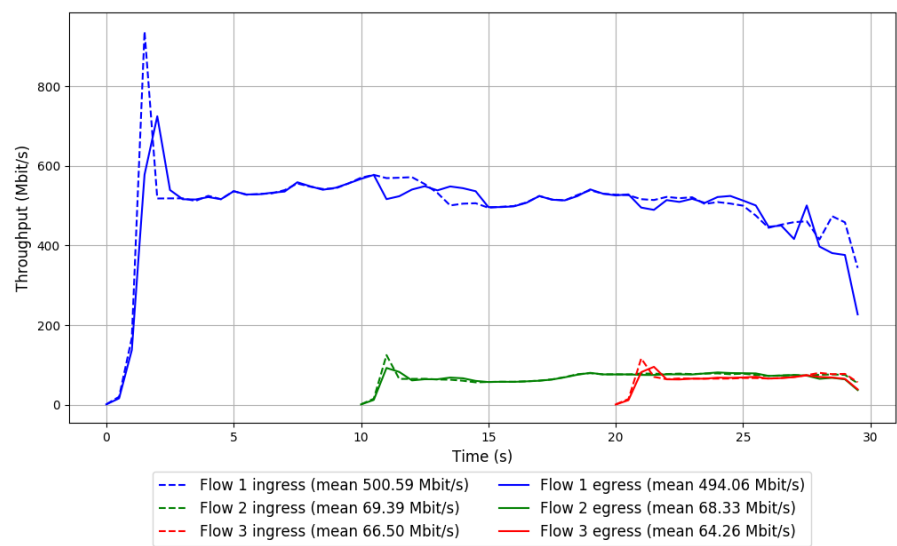


```
Run 4: Statistics of PCC

Start at: 2018-01-26 16:57:52
End at: 2018-01-26 16:58:22

# Below is generated by plot.py at 2018-01-26 21:26:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.29 Mbit/s
95th percentile per-packet one-way delay: 163.706 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 494.06 Mbit/s
95th percentile per-packet one-way delay: 163.248 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 68.33 Mbit/s
95th percentile per-packet one-way delay: 165.299 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 193.569 ms
Loss rate: 4.36%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 17:11:55

End at: 2018-01-26 17:12:25

Below is generated by plot.py at 2018-01-26 21:26:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 574.28 Mbit/s

95th percentile per-packet one-way delay: 163.490 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 530.67 Mbit/s

95th percentile per-packet one-way delay: 163.509 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 163.373 ms

Loss rate: 1.95%

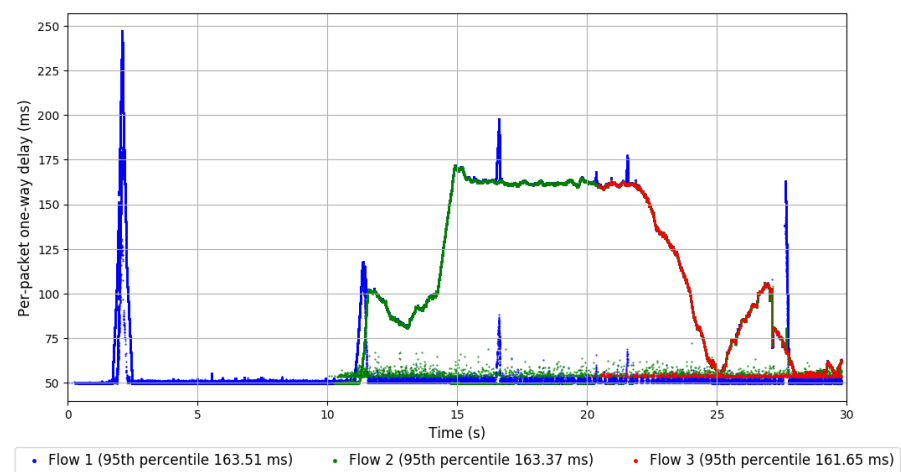
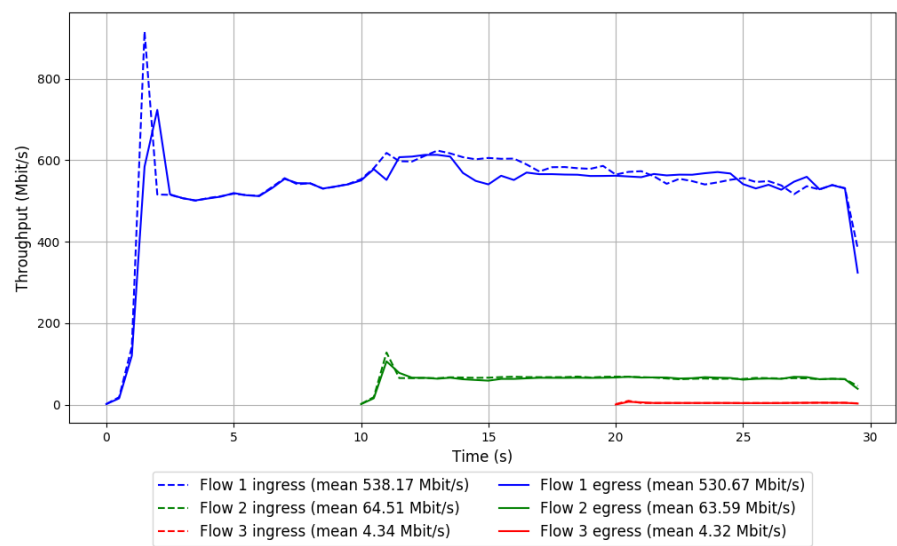
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 161.647 ms

Loss rate: 1.68%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 17:25:40

End at: 2018-01-26 17:26:10

Below is generated by plot.py at 2018-01-26 21:26:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 559.33 Mbit/s

95th percentile per-packet one-way delay: 190.769 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 520.15 Mbit/s

95th percentile per-packet one-way delay: 190.636 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 191.128 ms

Loss rate: 3.84%

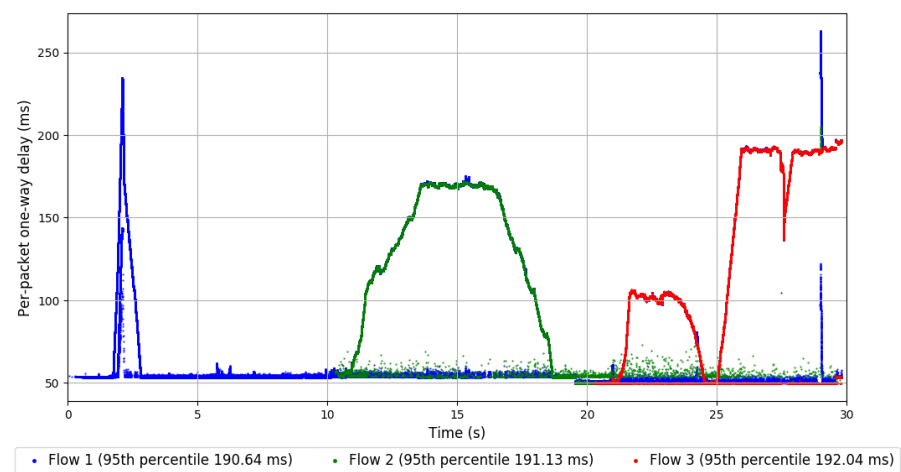
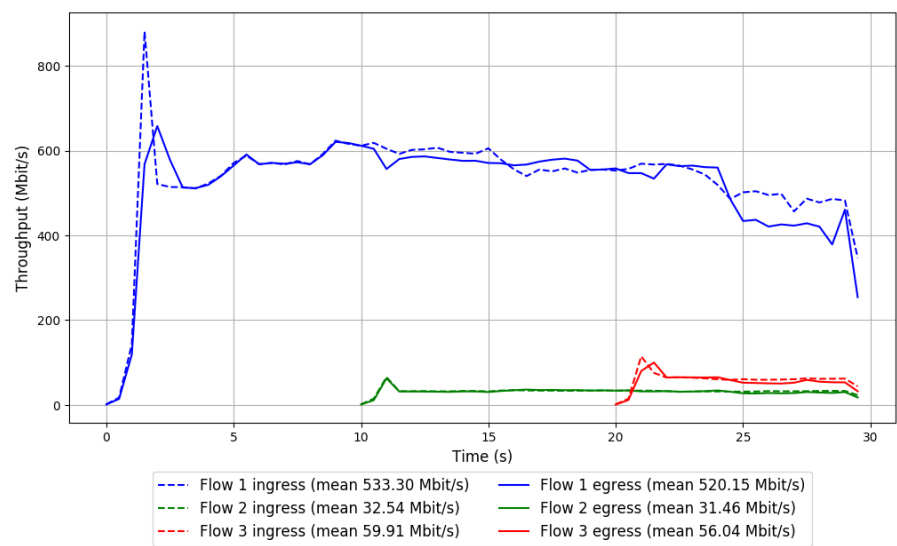
-- Flow 3:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 192.040 ms

Loss rate: 7.42%

Run 6: Report of PCC — Data Link

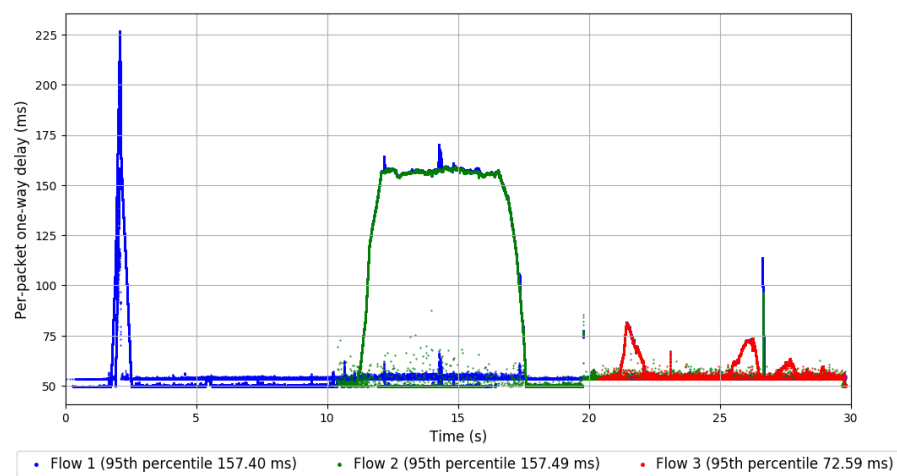
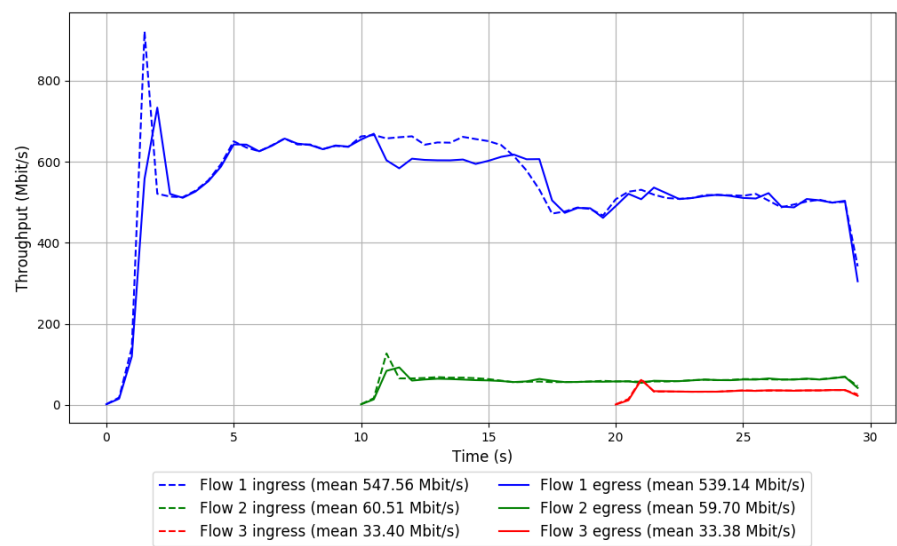


```
Run 7: Statistics of PCC

Start at: 2018-01-26 17:39:40
End at: 2018-01-26 17:40:10

# Below is generated by plot.py at 2018-01-26 21:27:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 589.62 Mbit/s
95th percentile per-packet one-way delay: 157.382 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 539.14 Mbit/s
95th percentile per-packet one-way delay: 157.399 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 59.70 Mbit/s
95th percentile per-packet one-way delay: 157.487 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 72.595 ms
Loss rate: 1.13%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 17:53:47

End at: 2018-01-26 17:54:17

Below is generated by plot.py at 2018-01-26 21:28:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 591.96 Mbit/s

95th percentile per-packet one-way delay: 167.096 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 548.97 Mbit/s

95th percentile per-packet one-way delay: 167.092 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 167.144 ms

Loss rate: 2.08%

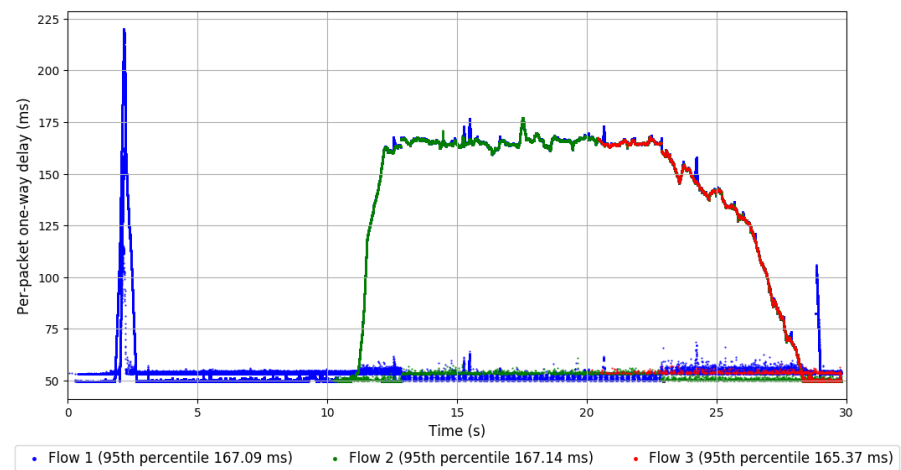
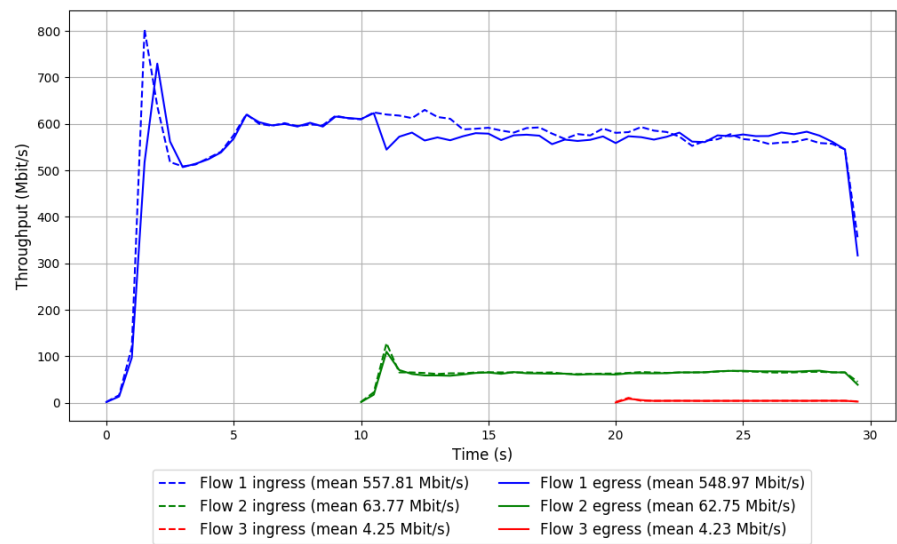
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 165.365 ms

Loss rate: 1.60%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 18:07:38

End at: 2018-01-26 18:08:08

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 605.09 Mbit/s

95th percentile per-packet one-way delay: 166.651 ms

Loss rate: 3.11%

-- Flow 1:

Average throughput: 584.78 Mbit/s

95th percentile per-packet one-way delay: 166.617 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 15.64 Mbit/s

95th percentile per-packet one-way delay: 166.766 ms

Loss rate: 3.32%

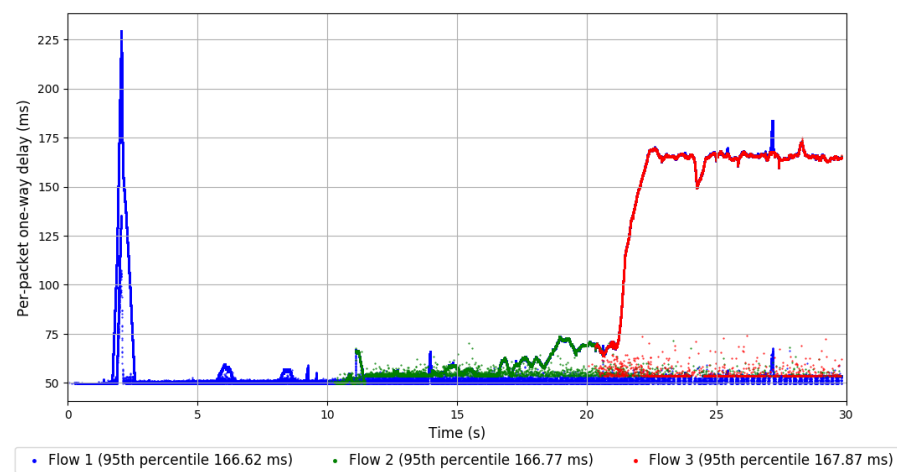
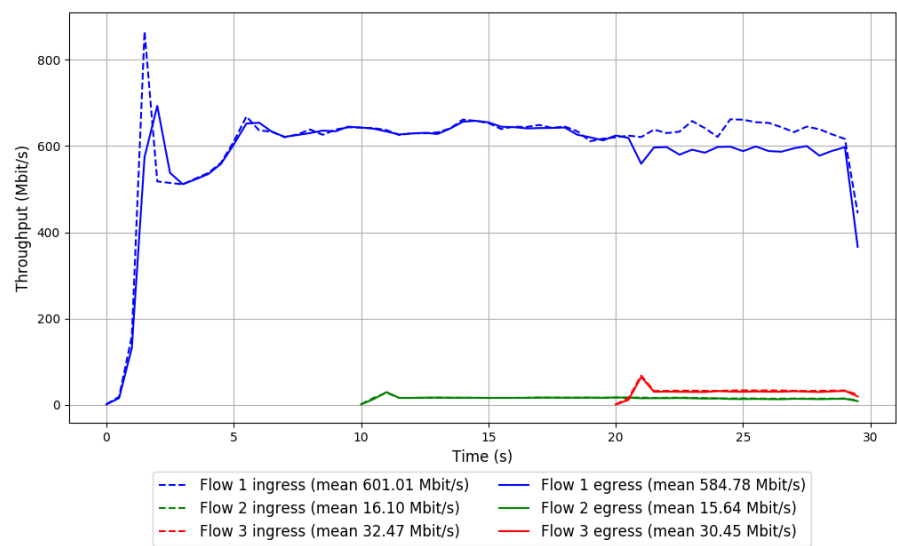
-- Flow 3:

Average throughput: 30.45 Mbit/s

95th percentile per-packet one-way delay: 167.872 ms

Loss rate: 7.31%

Run 9: Report of PCC — Data Link

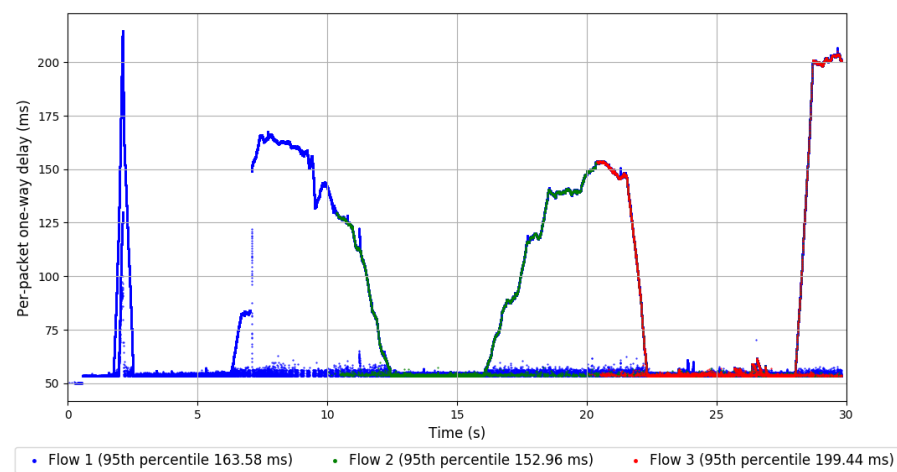
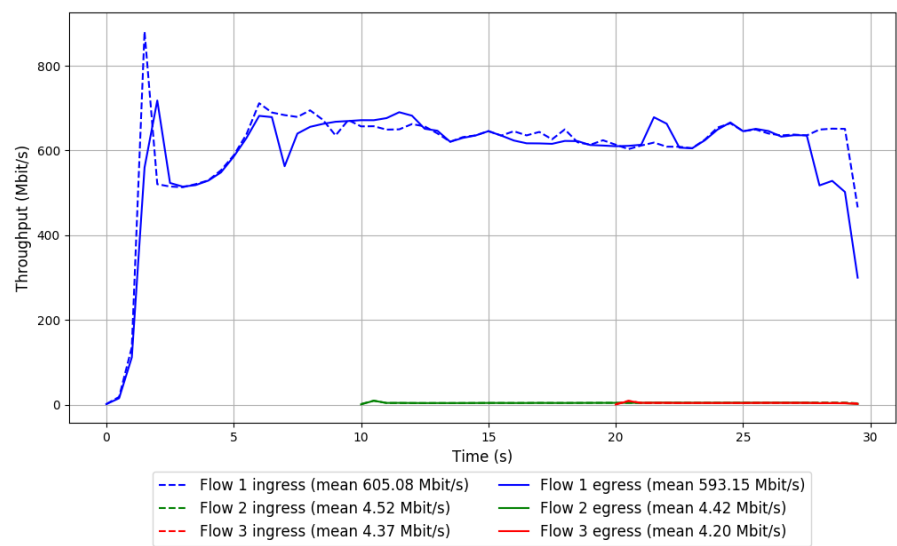


```
Run 10: Statistics of PCC

Start at: 2018-01-26 18:21:29
End at: 2018-01-26 18:21:59

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 597.46 Mbit/s
95th percentile per-packet one-way delay: 163.576 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 593.15 Mbit/s
95th percentile per-packet one-way delay: 163.578 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 152.962 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 199.444 ms
Loss rate: 5.06%
```

Run 10: Report of PCC — Data Link

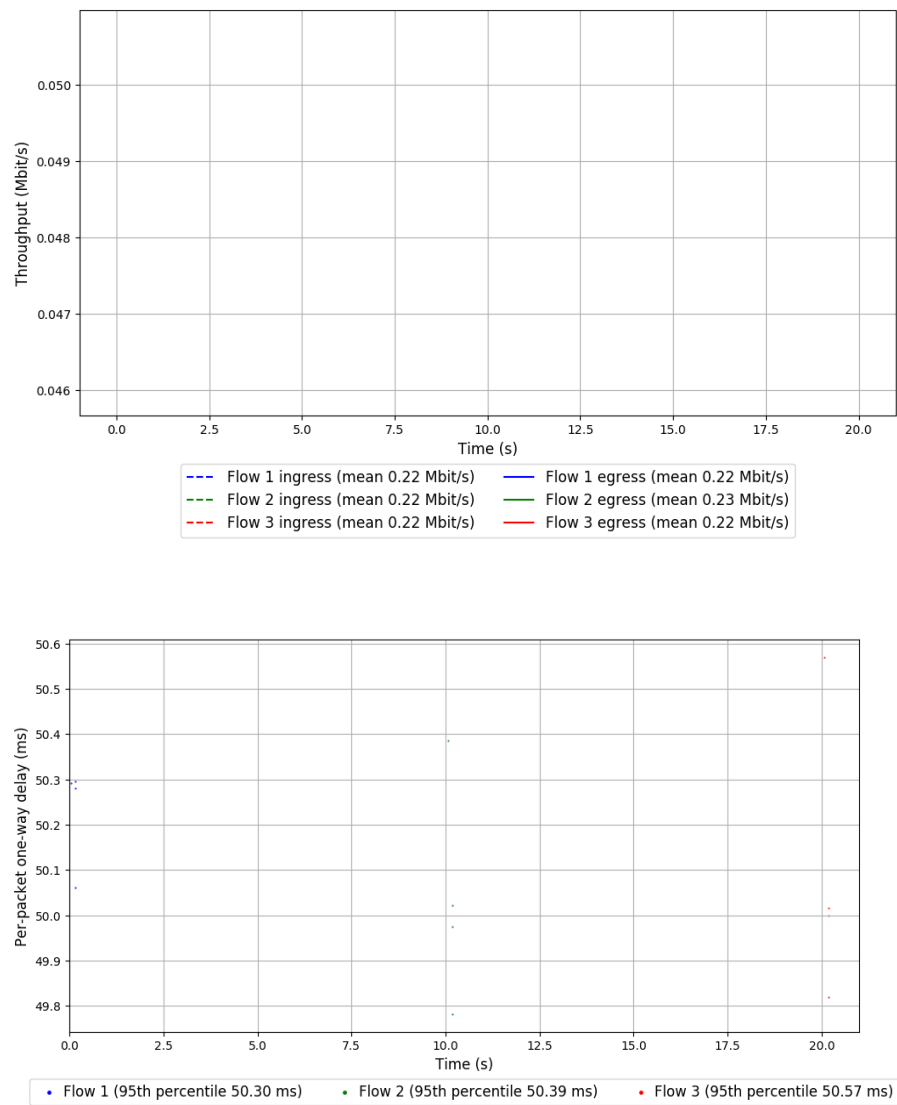


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 16:12:46

End at: 2018-01-26 16:13:16

Run 1: Report of QUIC Cubic — Data Link

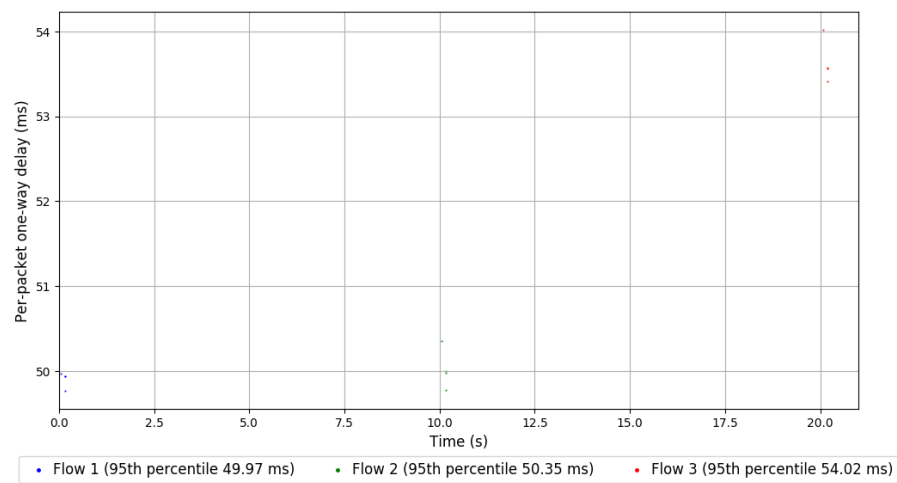
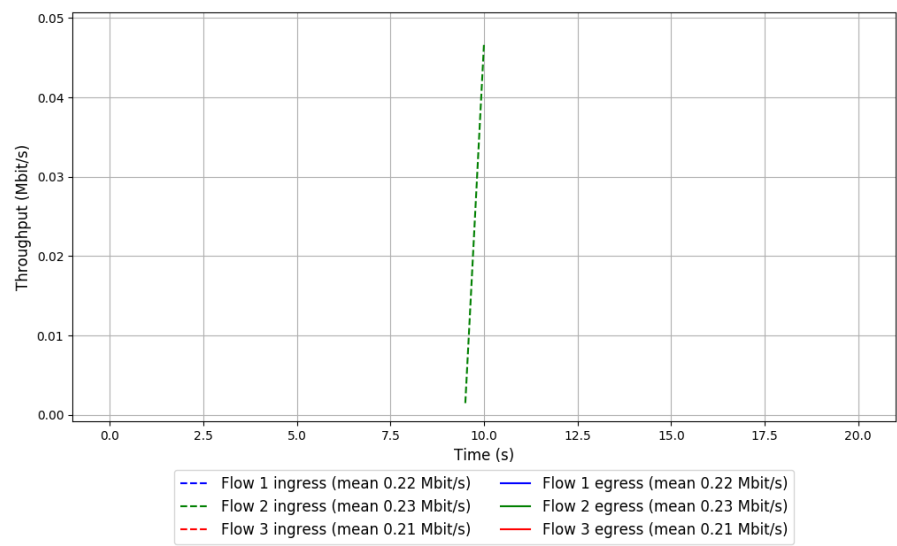


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 16:27:17

End at: 2018-01-26 16:27:47

Run 2: Report of QUIC Cubic — Data Link

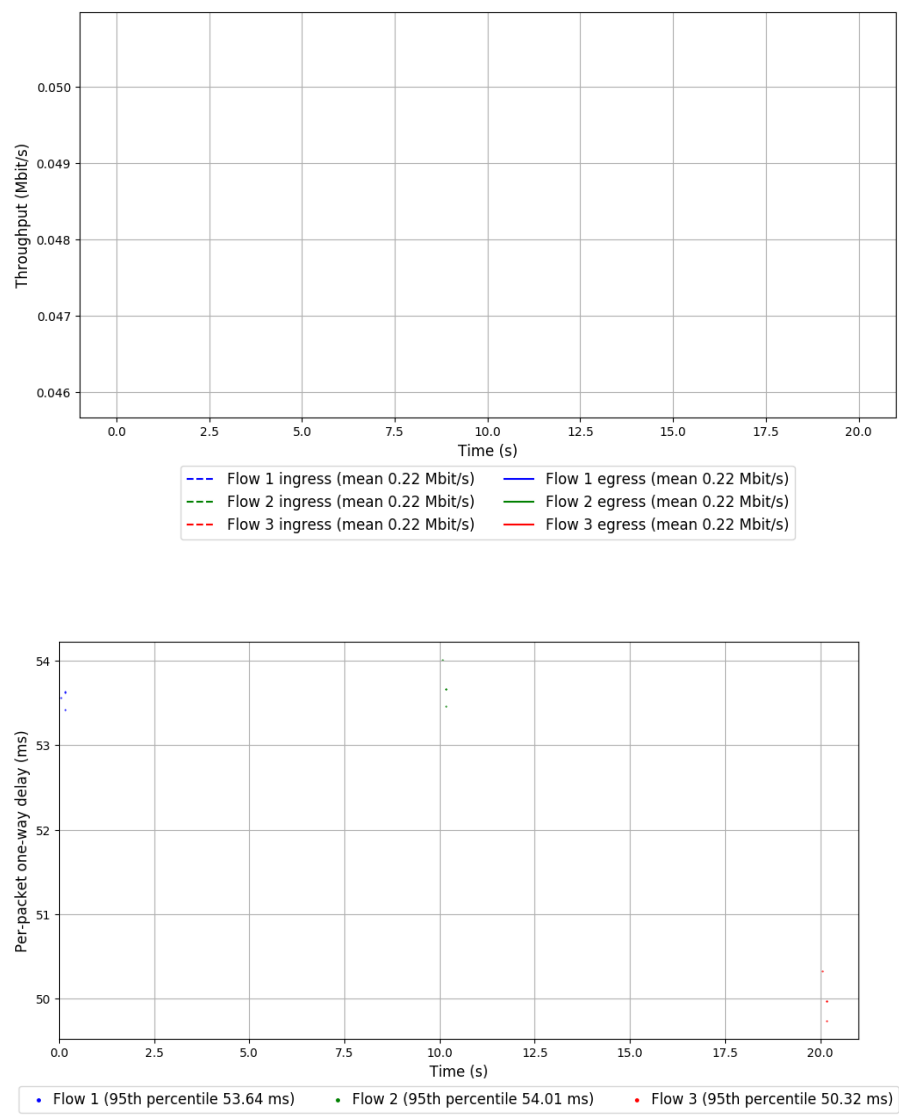


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 16:41:28

End at: 2018-01-26 16:41:58

Run 3: Report of QUIC Cubic — Data Link

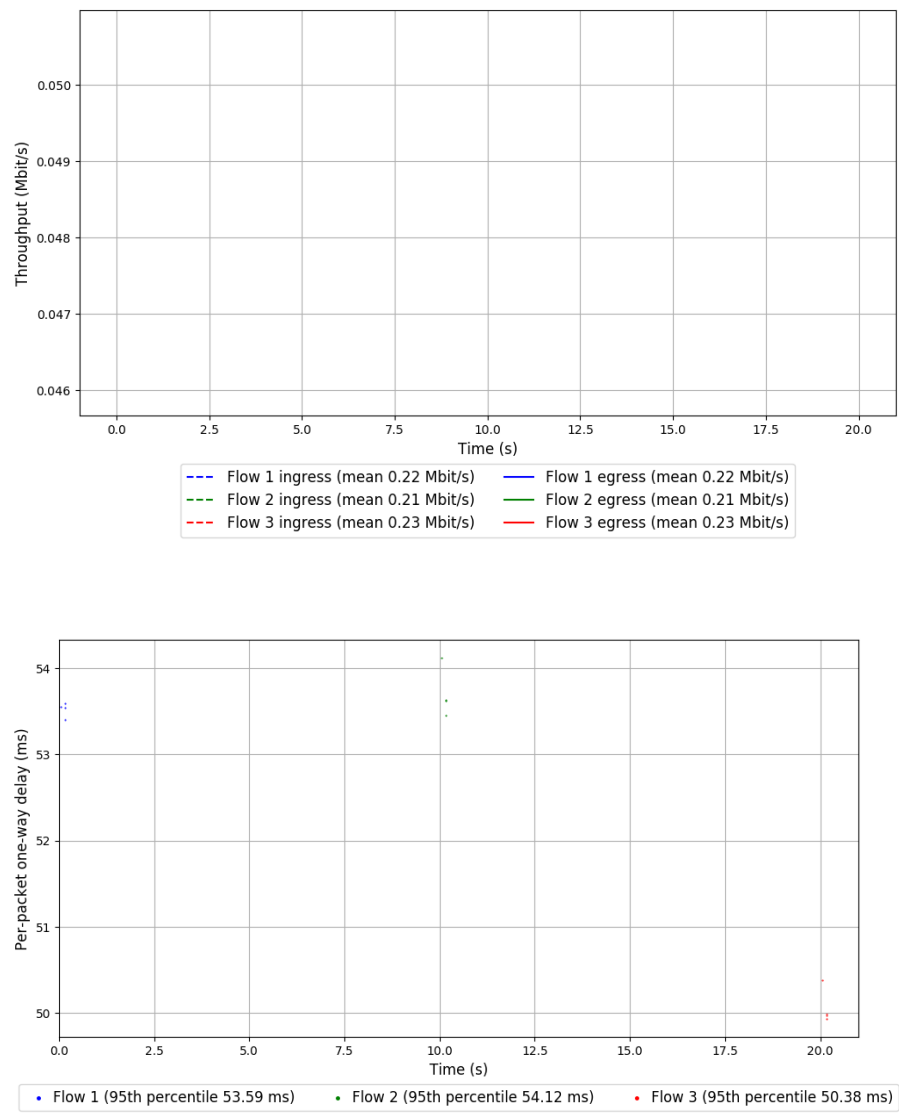


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 16:55:35

End at: 2018-01-26 16:56:05

Run 4: Report of QUIC Cubic — Data Link

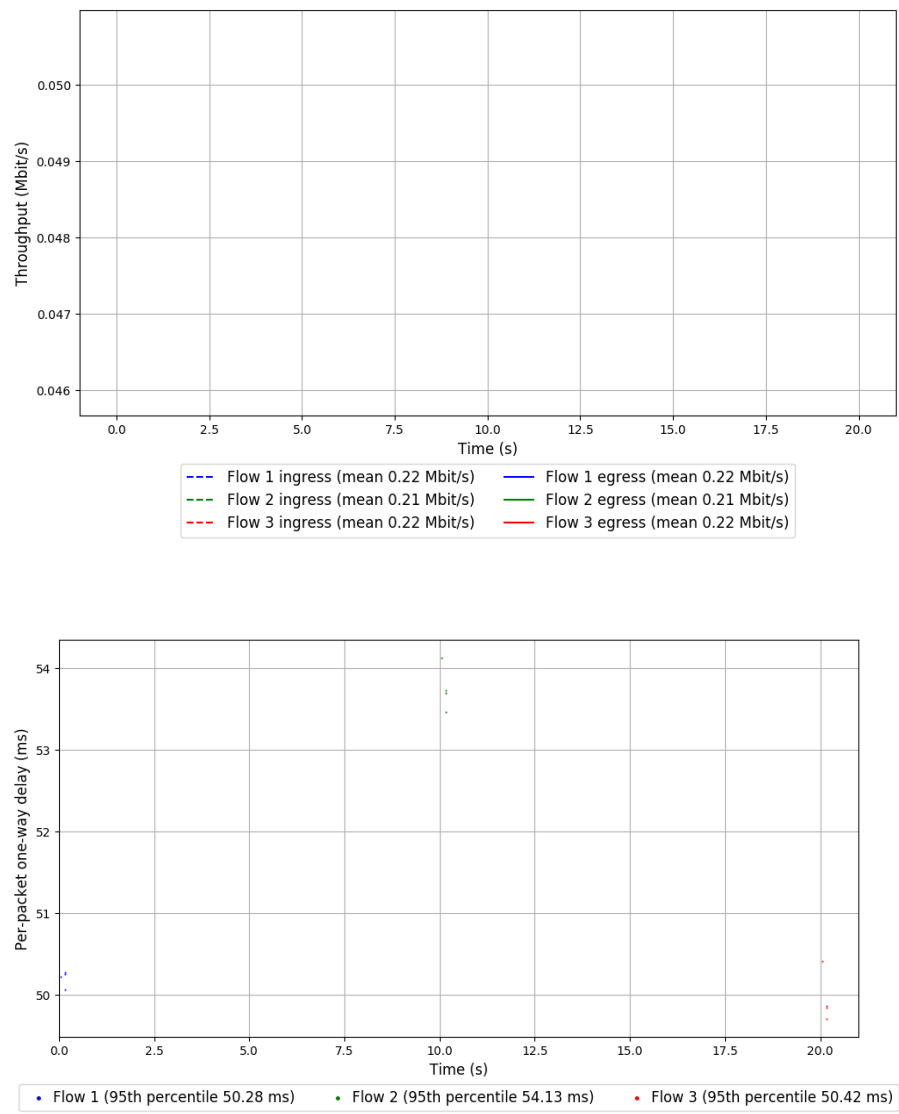


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 17:09:39

End at: 2018-01-26 17:10:09

Run 5: Report of QUIC Cubic — Data Link

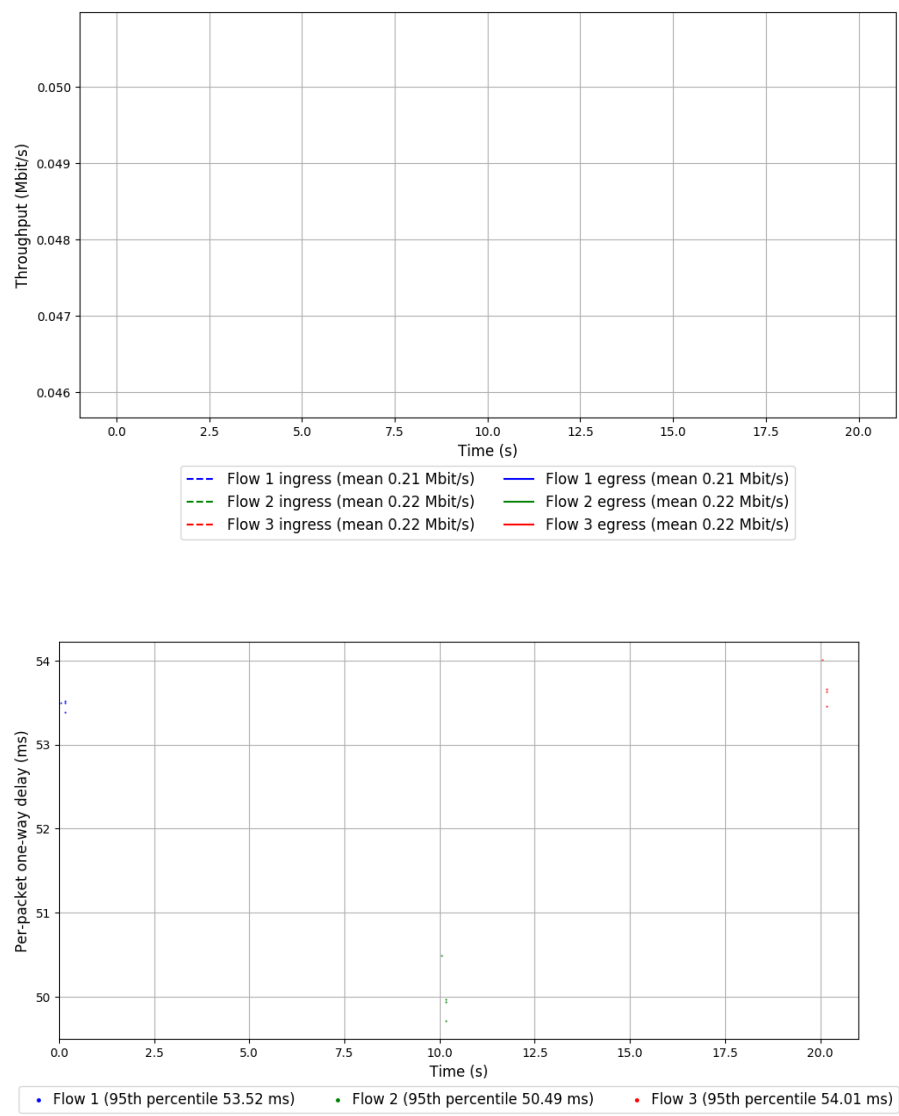


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 17:23:23

End at: 2018-01-26 17:23:53

Run 6: Report of QUIC Cubic — Data Link

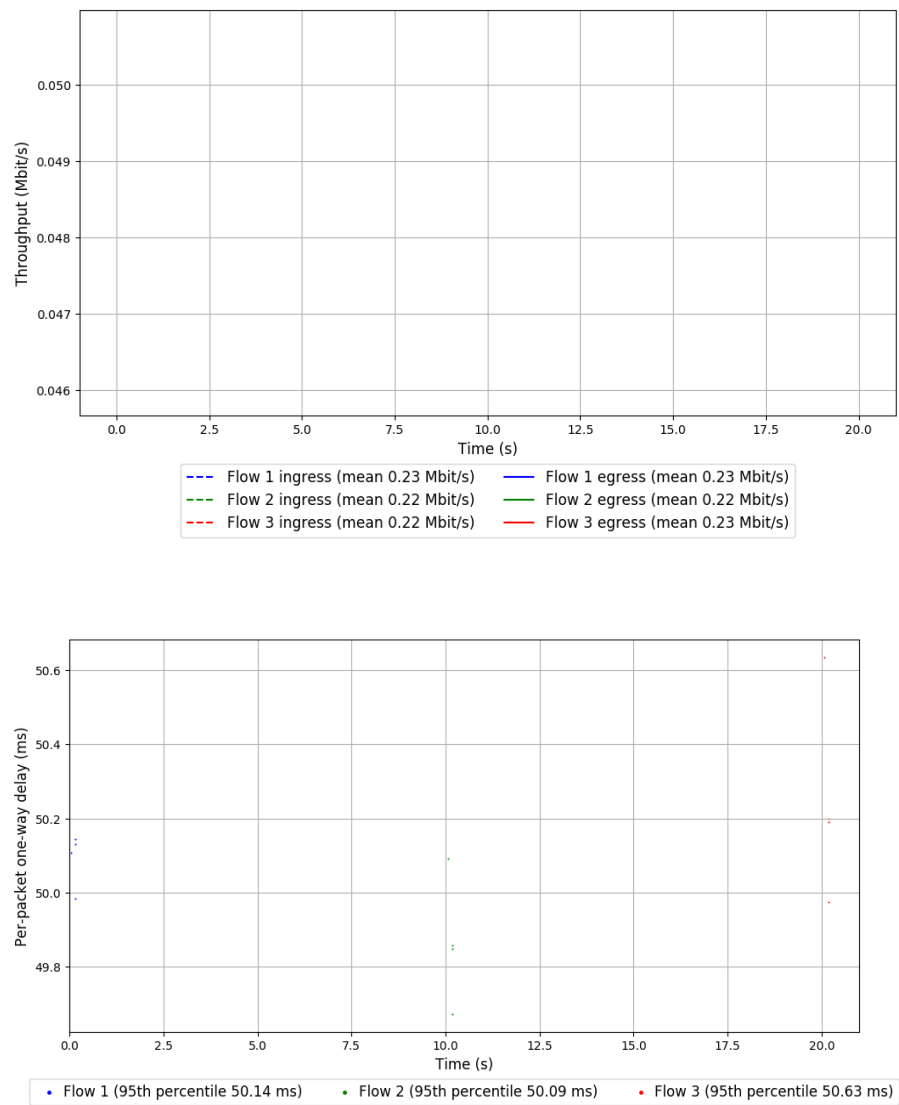


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 17:37:24

End at: 2018-01-26 17:37:54

Run 7: Report of QUIC Cubic — Data Link

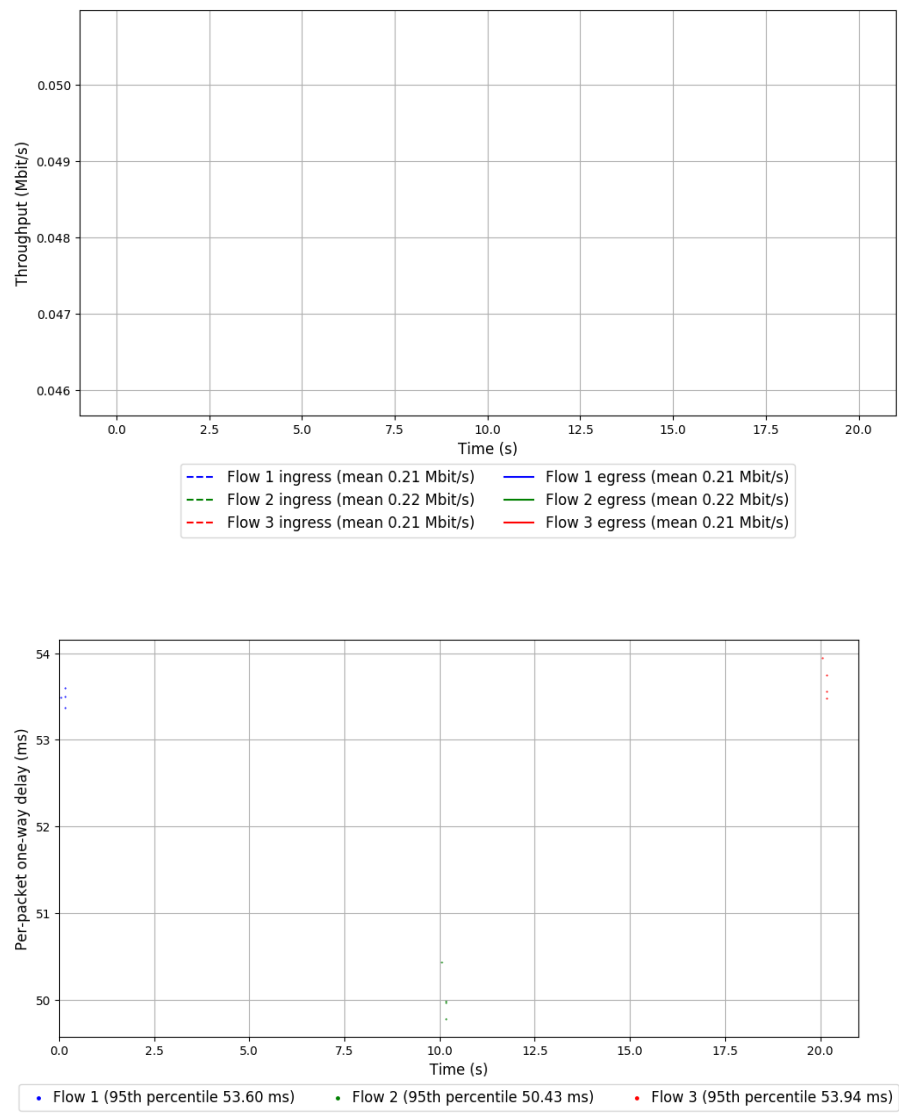


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 17:51:36

End at: 2018-01-26 17:52:06

Run 8: Report of QUIC Cubic — Data Link

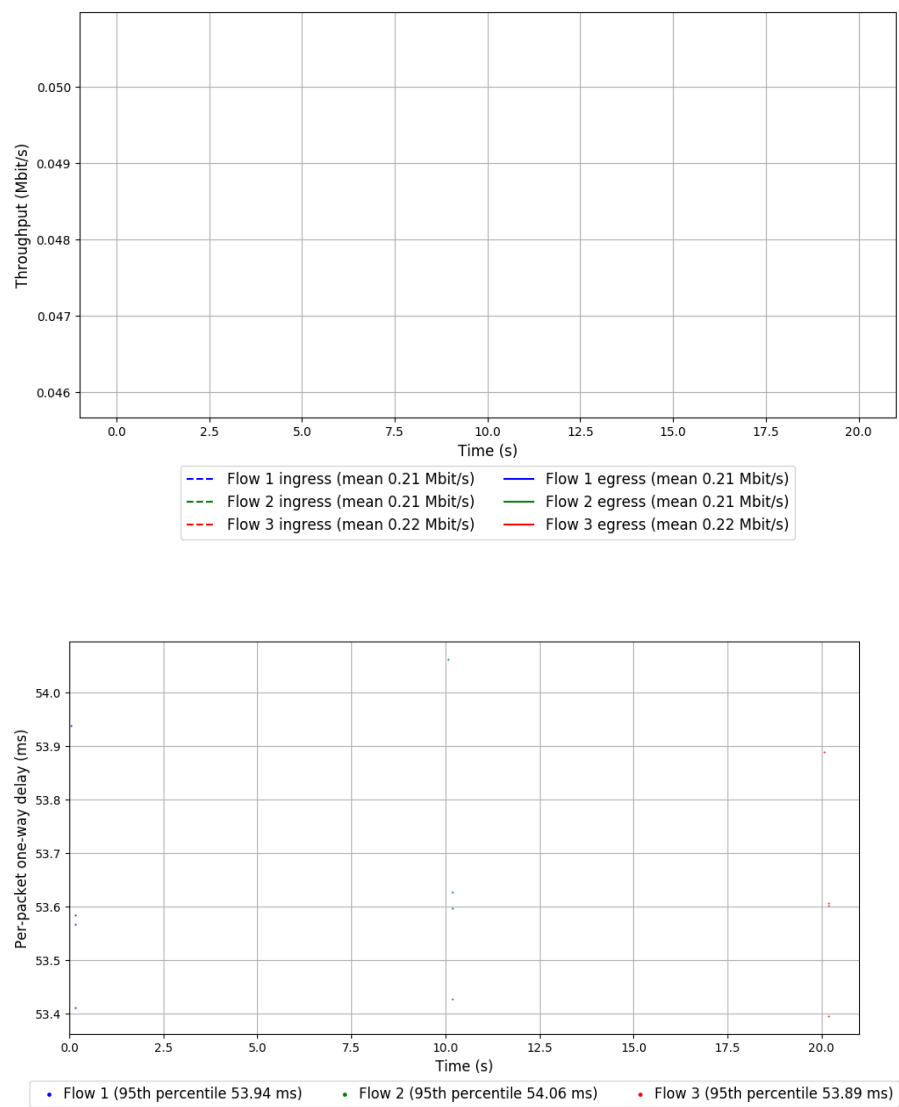


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 18:05:22

End at: 2018-01-26 18:05:52

Run 9: Report of QUIC Cubic — Data Link

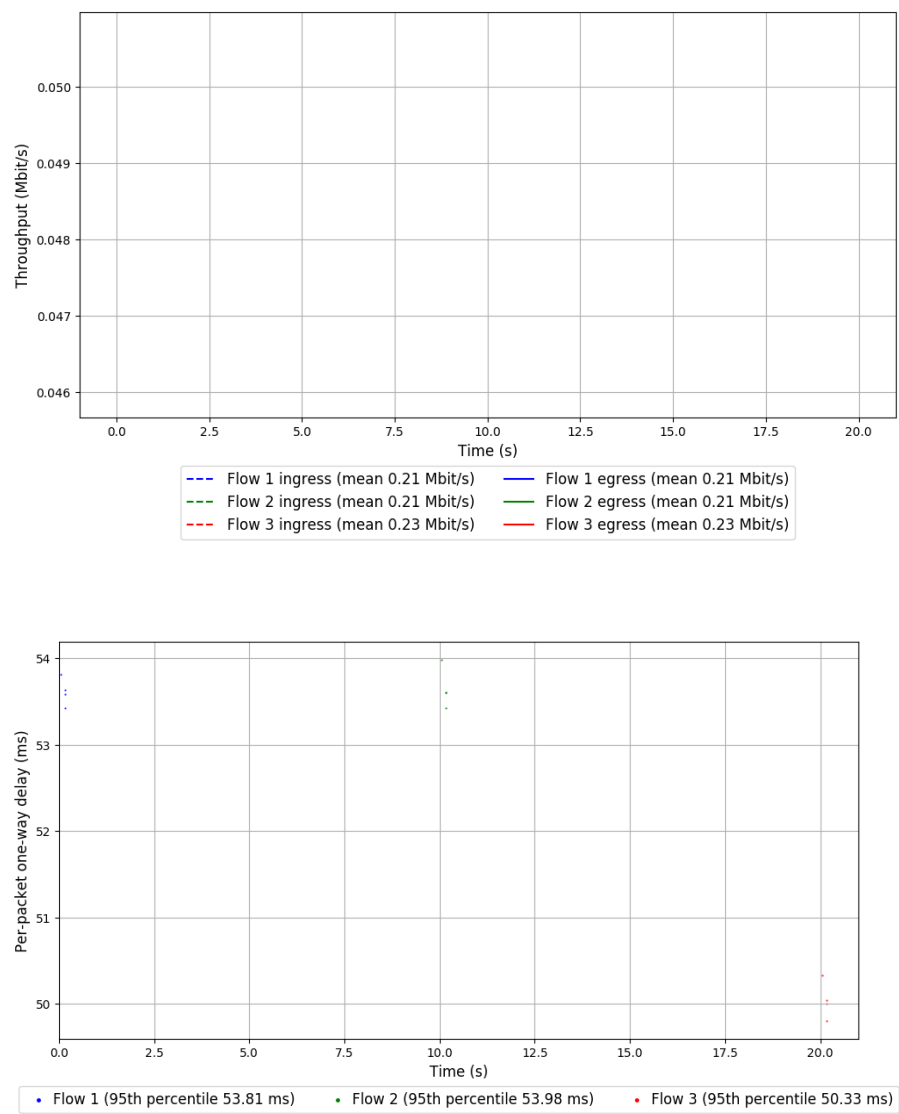


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 18:19:12

End at: 2018-01-26 18:19:42

Run 10: Report of QUIC Cubic — Data Link

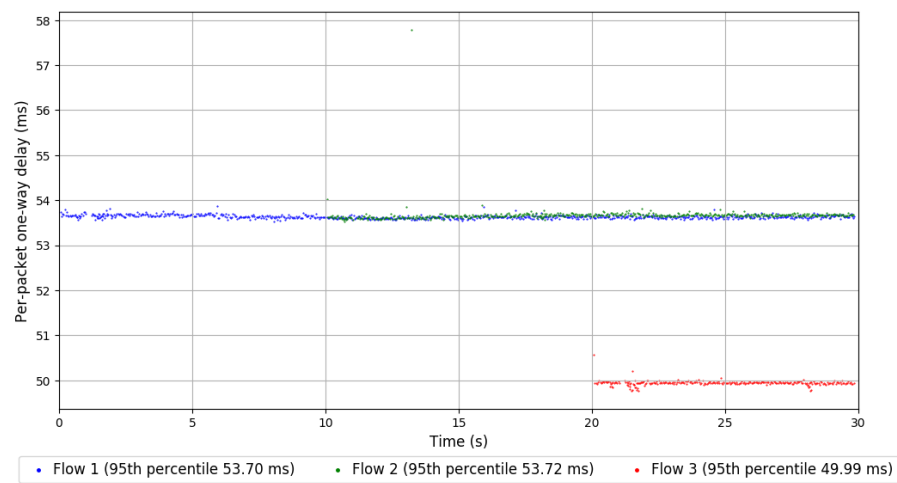
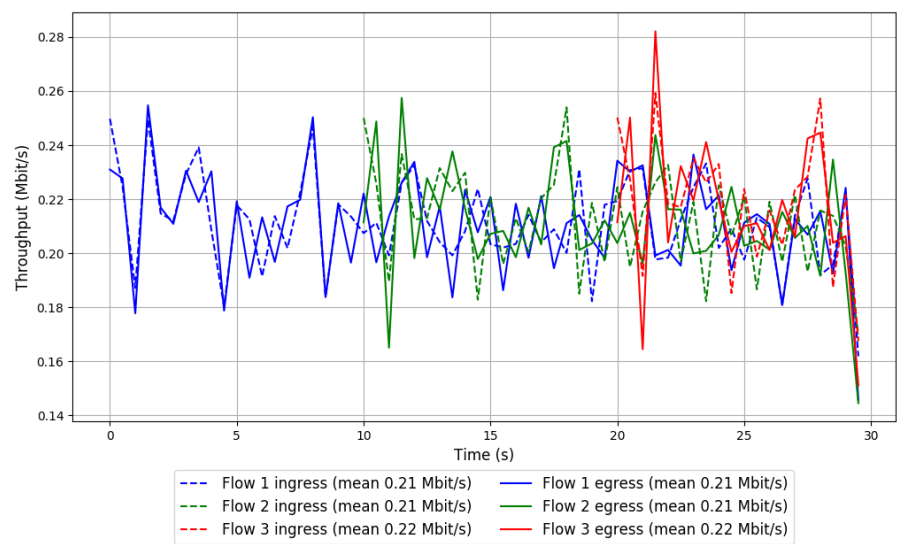


```
Run 1: Statistics of SReAM

Start at: 2018-01-26 16:18:24
End at: 2018-01-26 16:18:54

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.705 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.702 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.716 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.986 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

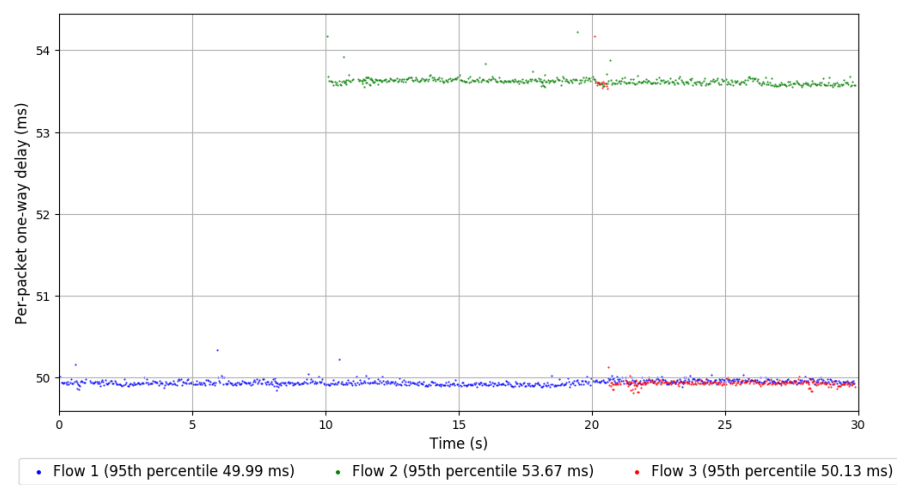
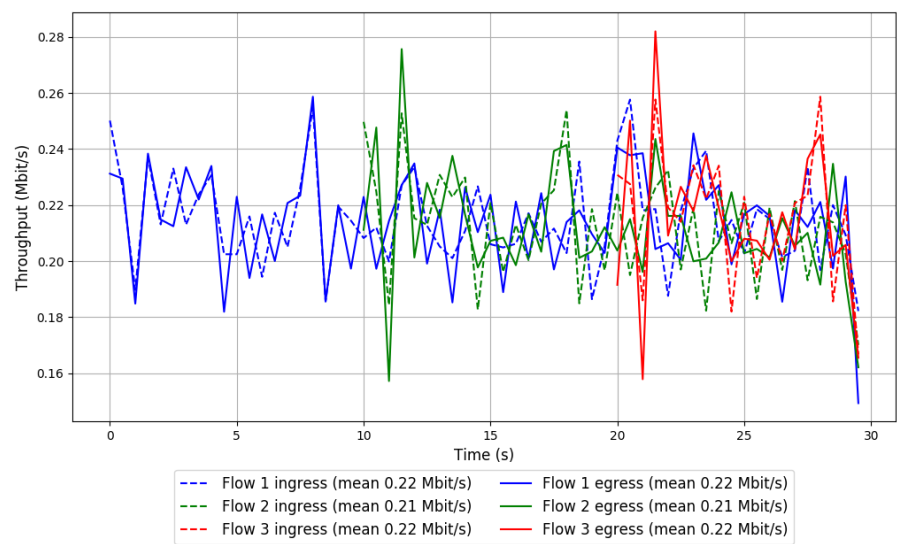


```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 16:32:39
End at: 2018-01-26 16:33:09

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.994 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.671 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.133 ms
Loss rate: 0.76%
```

Run 2: Report of SReAM — Data Link

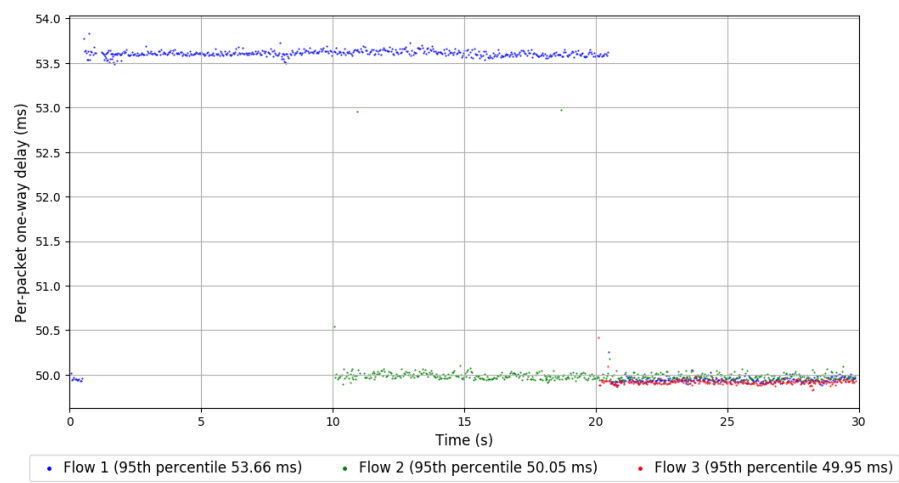
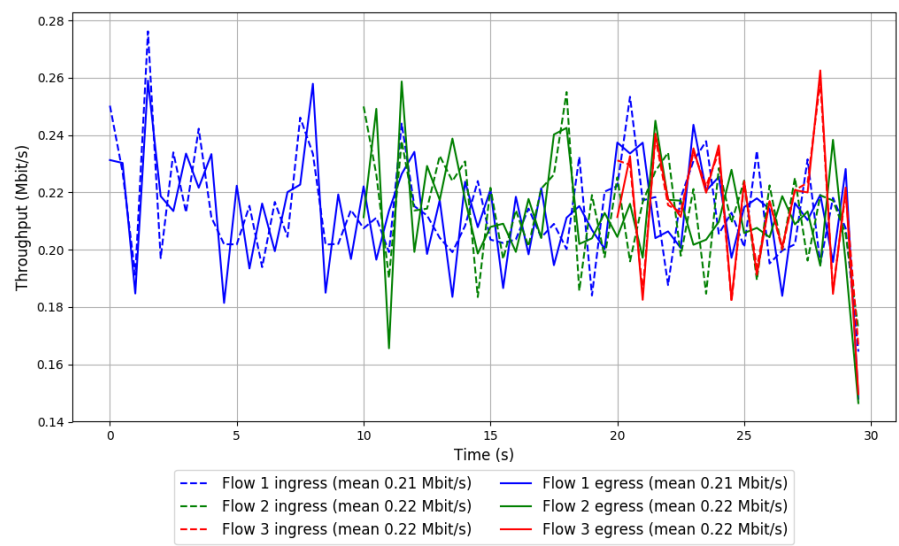


```
Run 3: Statistics of SCReAM

Start at: 2018-01-26 16:46:49
End at: 2018-01-26 16:47:19

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.642 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.045 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.952 ms
Loss rate: 0.76%
```


Run 3: Report of SReAM — Data Link

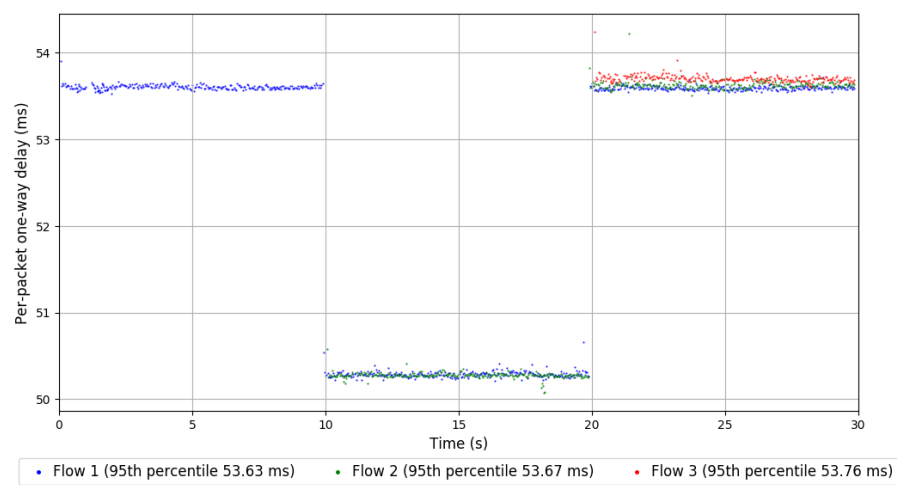
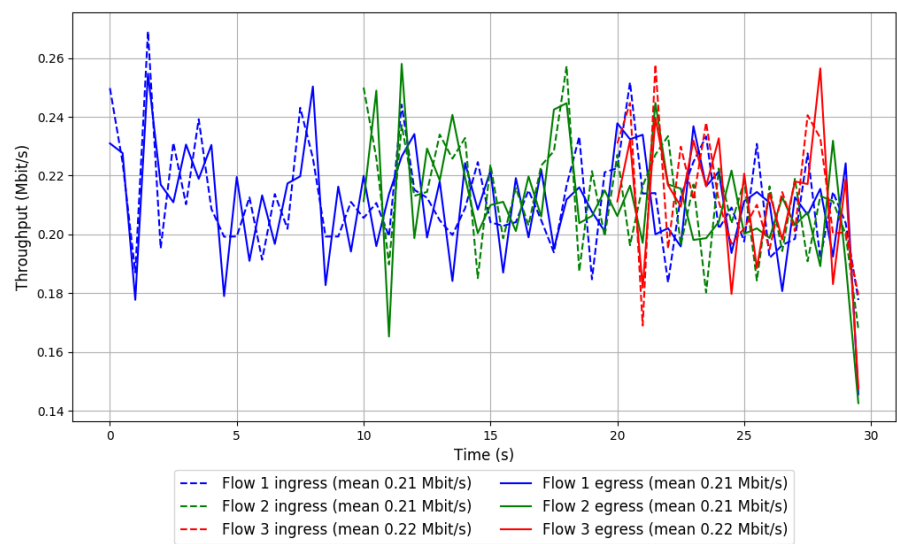


```
Run 4: Statistics of SCReAM

Start at: 2018-01-26 17:00:50
End at: 2018-01-26 17:01:20

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.714 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.633 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.668 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.763 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-26 17:14:45

End at: 2018-01-26 17:15:15

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.671 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.666 ms

Loss rate: 0.42%

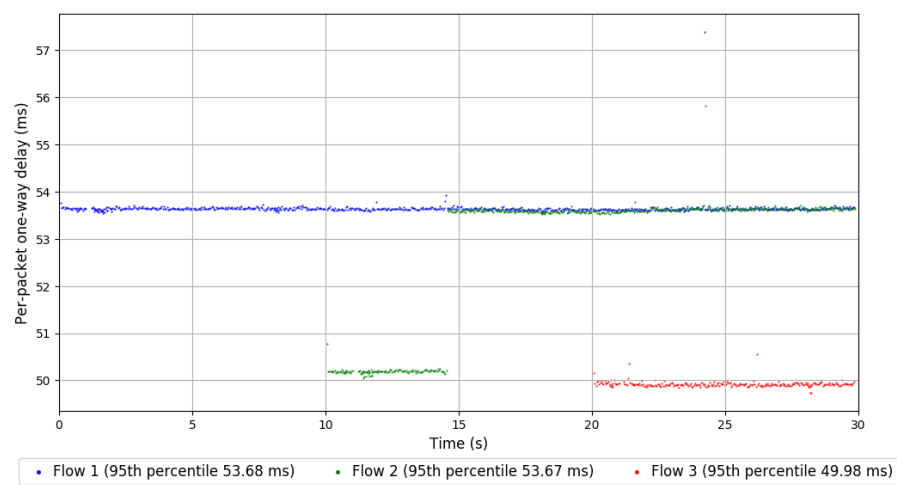
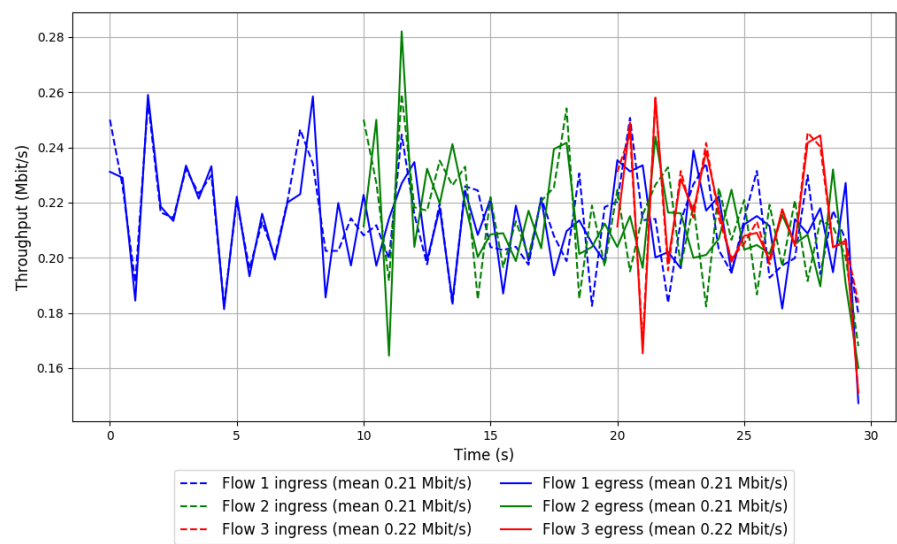
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.984 ms

Loss rate: 1.12%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-26 17:28:41

End at: 2018-01-26 17:29:11

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.266 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.215 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.883 ms

Loss rate: 0.63%

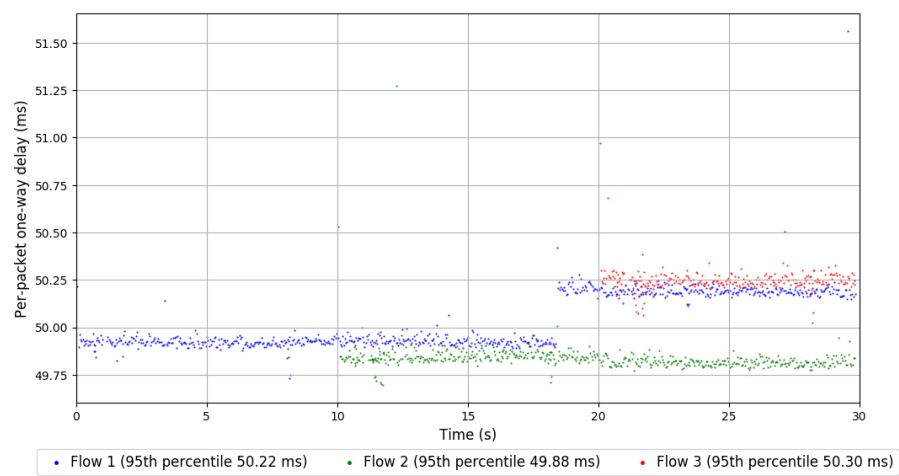
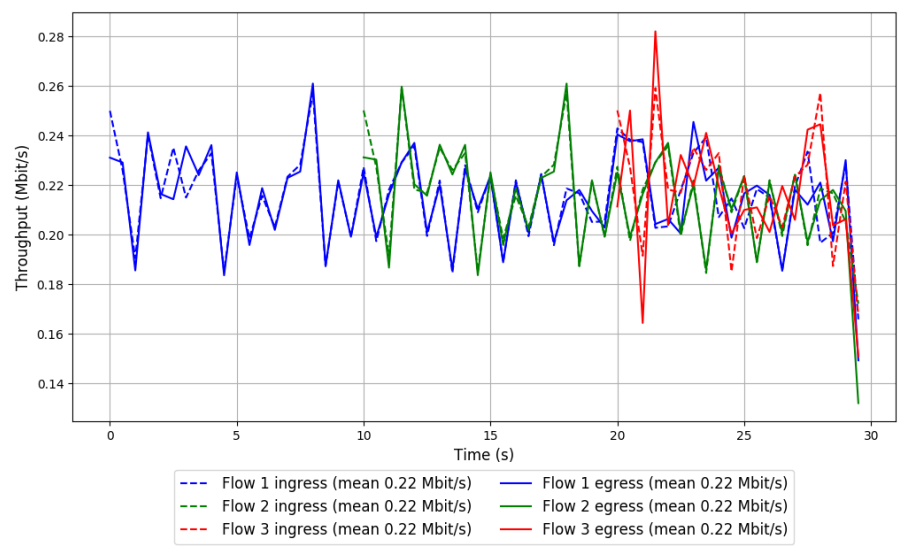
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 1.11%

Run 6: Report of SReAM — Data Link

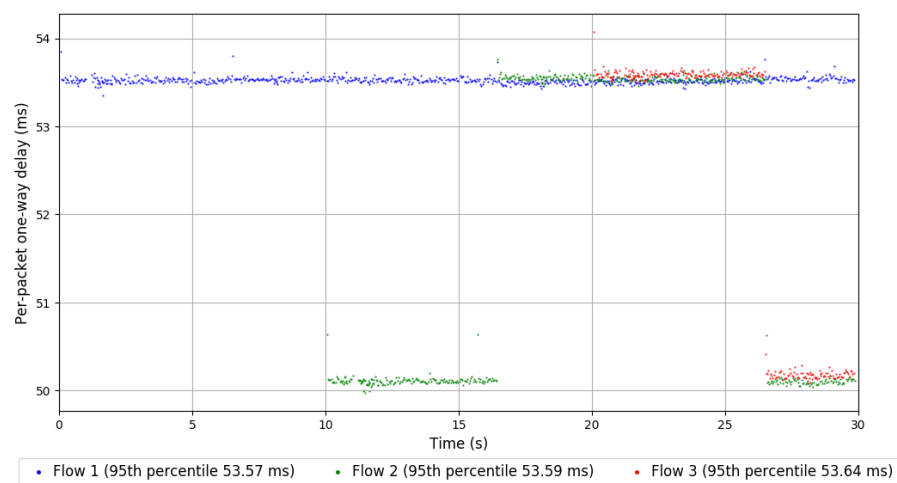
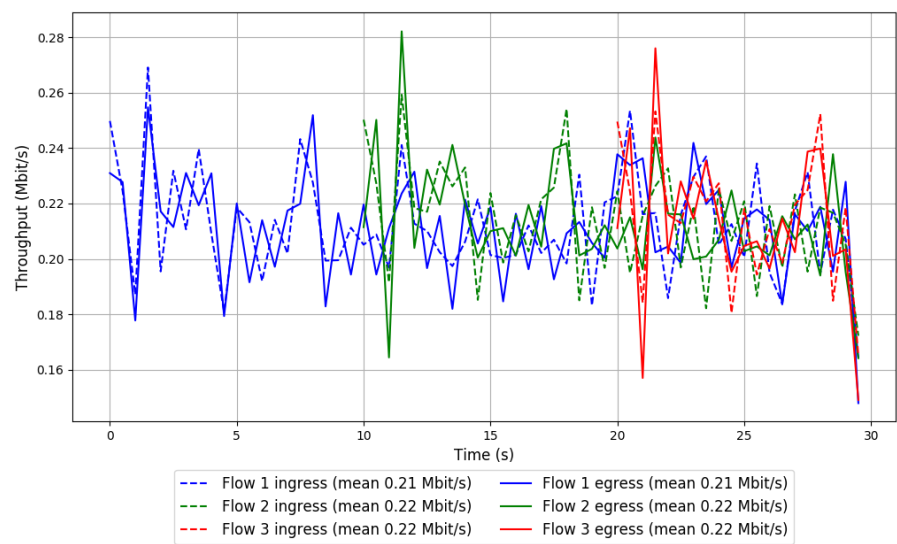


```
Run 7: Statistics of SCReAM

Start at: 2018-01-26 17:42:53
End at: 2018-01-26 17:43:23

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.605 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.588 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 1.11%
```


Run 7: Report of SReAM — Data Link

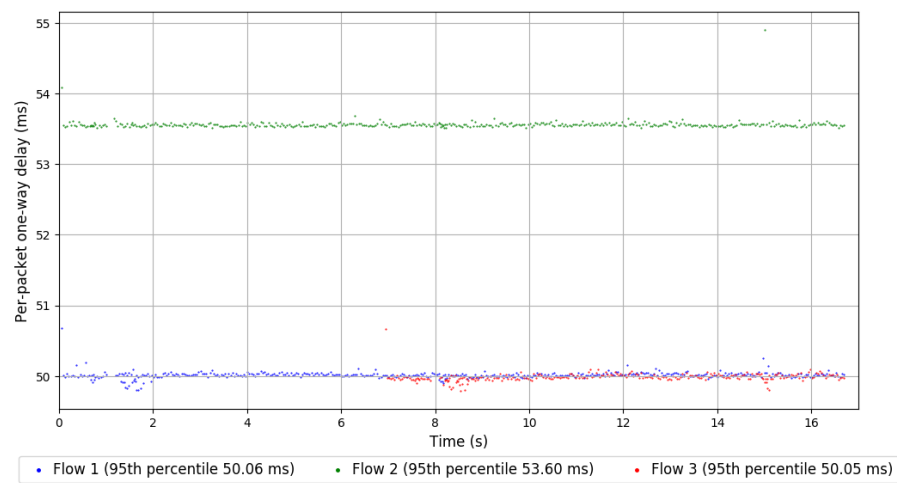
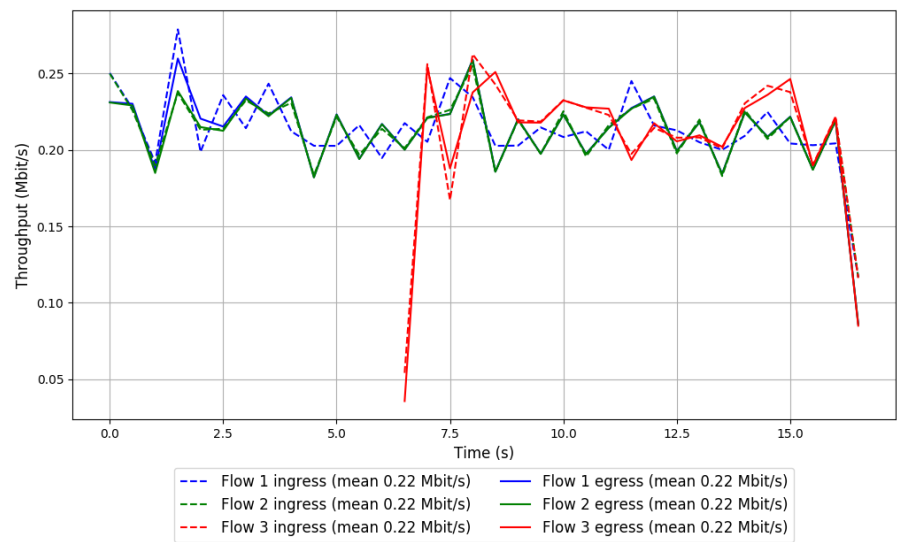


Run 8: Statistics of SReAM

Start at: 2018-01-26 17:56:37

End at: 2018-01-26 17:57:07

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-26 18:10:29

End at: 2018-01-26 18:10:59

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.43%

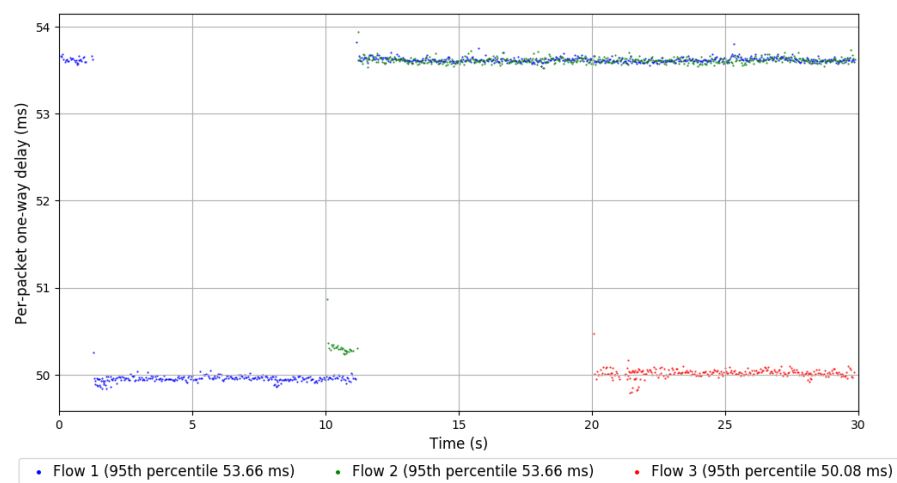
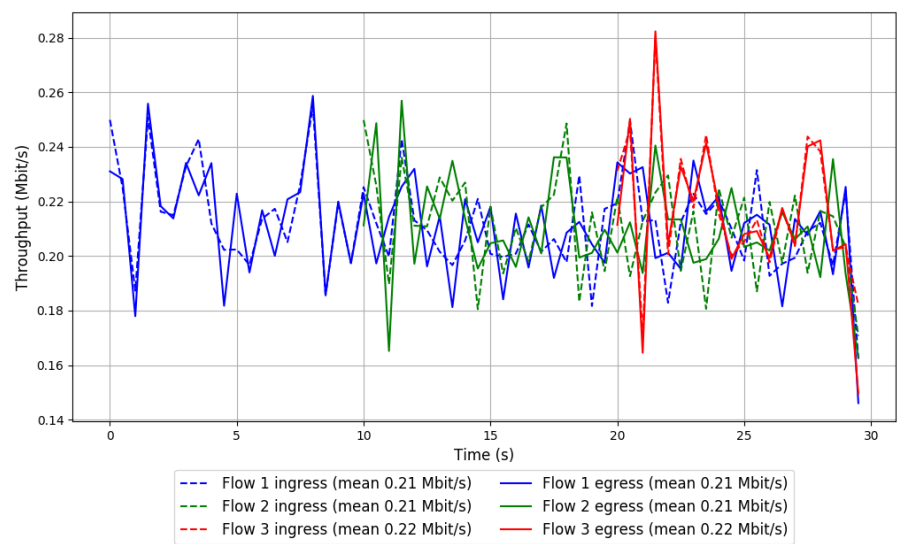
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.083 ms

Loss rate: 1.10%

Run 9: Report of SReAM — Data Link

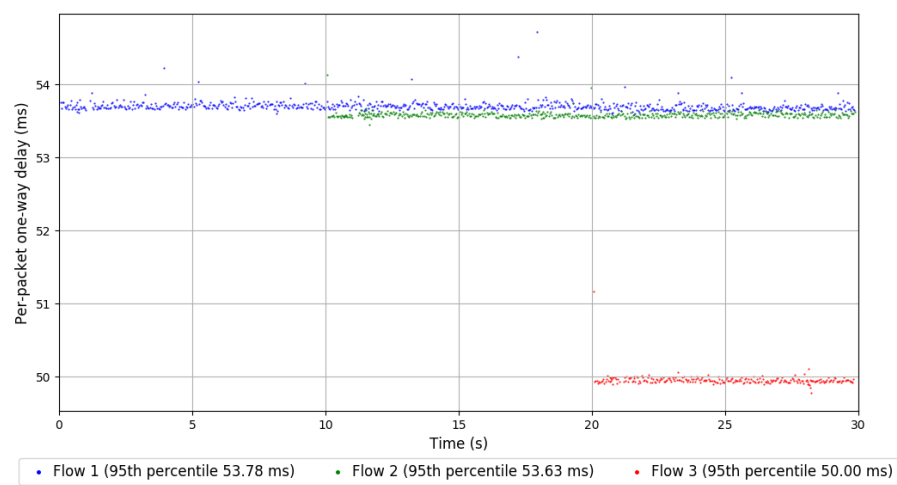
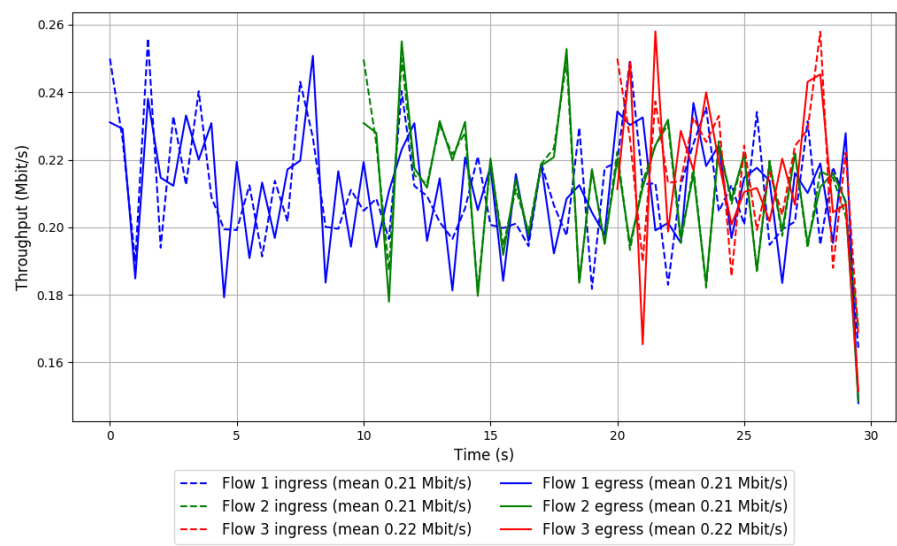


```
Run 10: Statistics of SReAM

Start at: 2018-01-26 18:24:49
End at: 2018-01-26 18:25:19

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.756 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.776 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.629 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.001 ms
Loss rate: 1.12%
```

Run 10: Report of SCRaM — Data Link

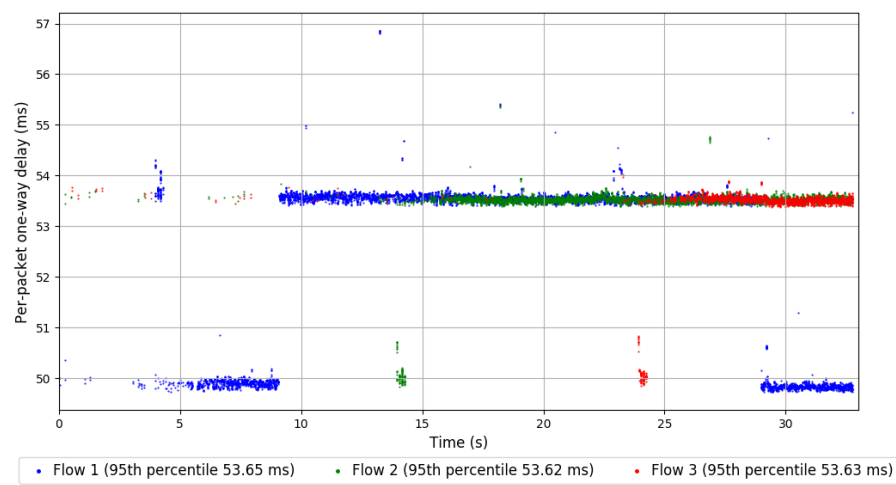
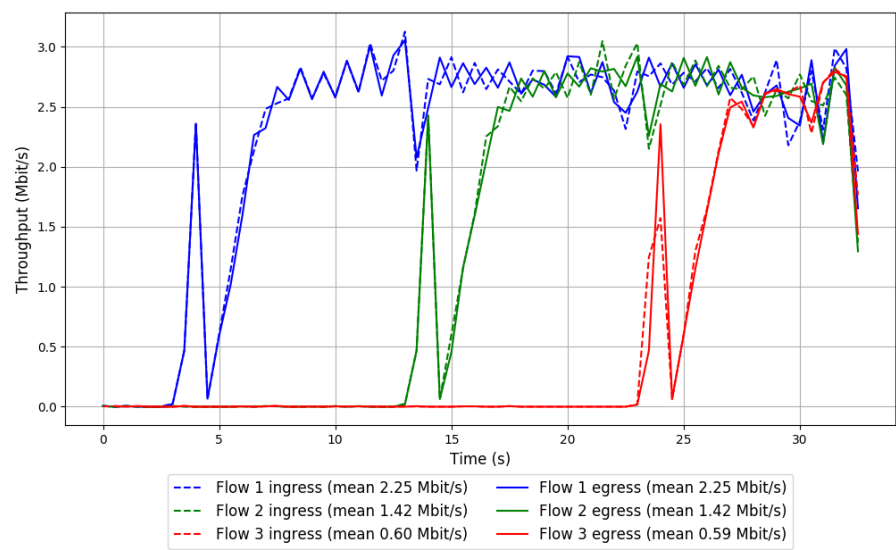


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 16:11:04
End at: 2018-01-26 16:11:34

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 53.642 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 53.654 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 53.622 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 53.632 ms
Loss rate: 1.43%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 16:25:28

End at: 2018-01-26 16:25:59

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.019 ms

Loss rate: 0.75%

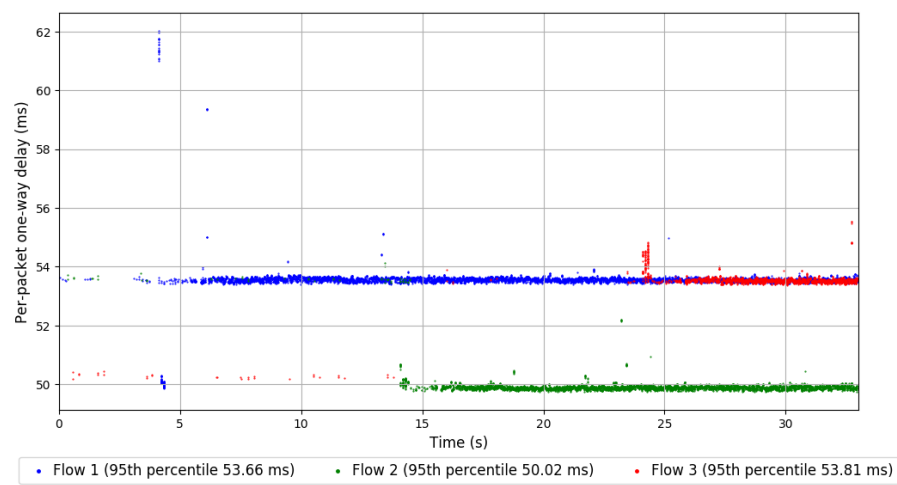
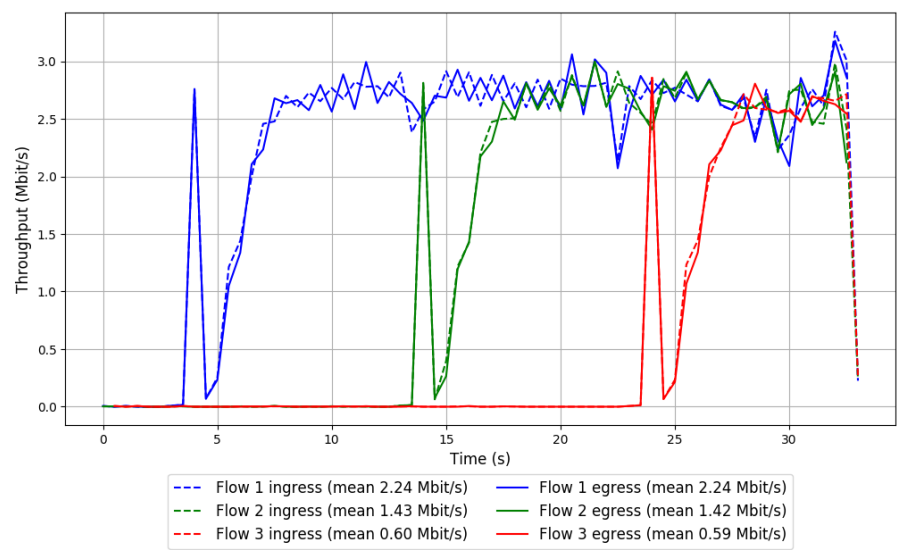
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.815 ms

Loss rate: 1.84%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 16:39:41

End at: 2018-01-26 16:40:11

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.627 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.630 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 1.41 Mbit/s

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

Loss rate: 0.64%

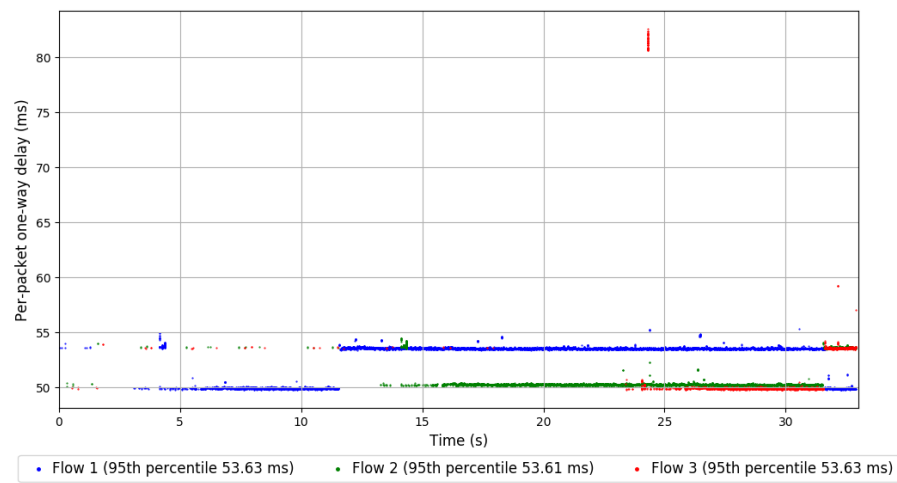
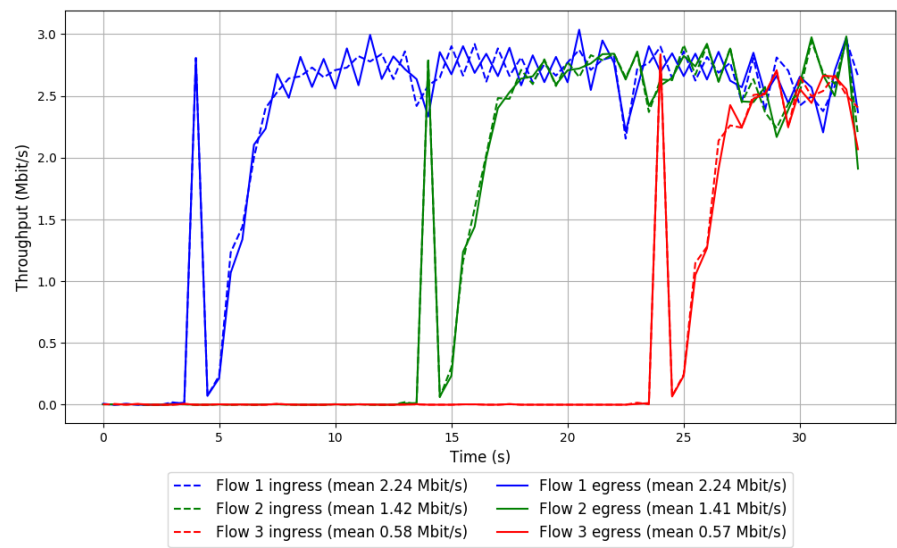
-- Flow 3:

Average throughput: 0.57 Mbit/s

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

Loss rate: 1.44%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 16:53:51

End at: 2018-01-26 16:54:21

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

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

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.630 ms

Loss rate: 0.48%

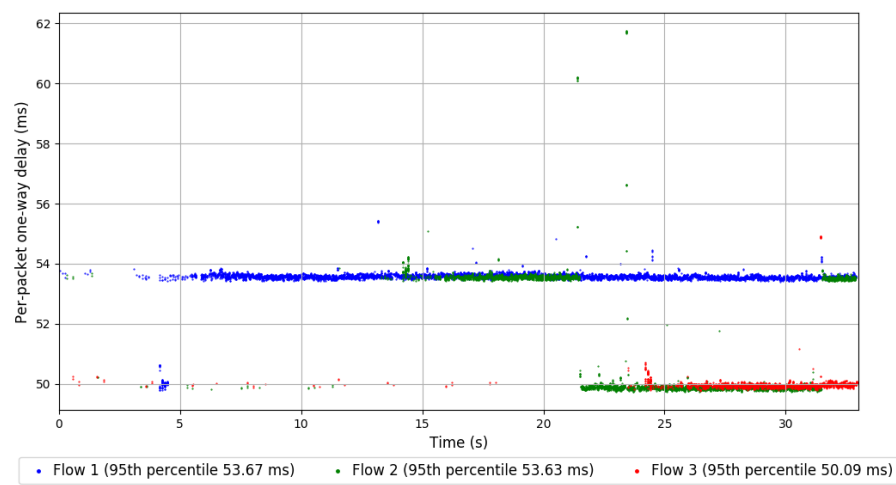
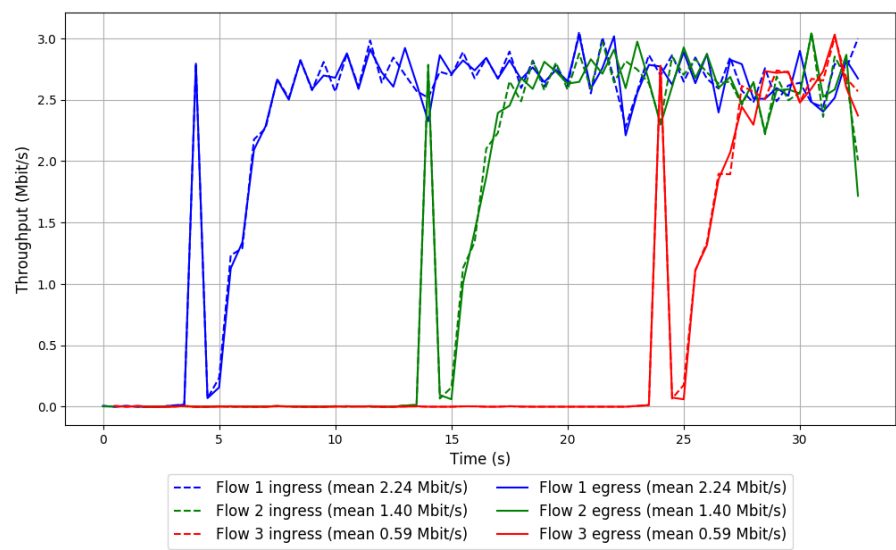
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.089 ms

Loss rate: 1.26%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 17:07:55

End at: 2018-01-26 17:08:25

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

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

Loss rate: 0.62%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 49.987 ms

Loss rate: 0.44%

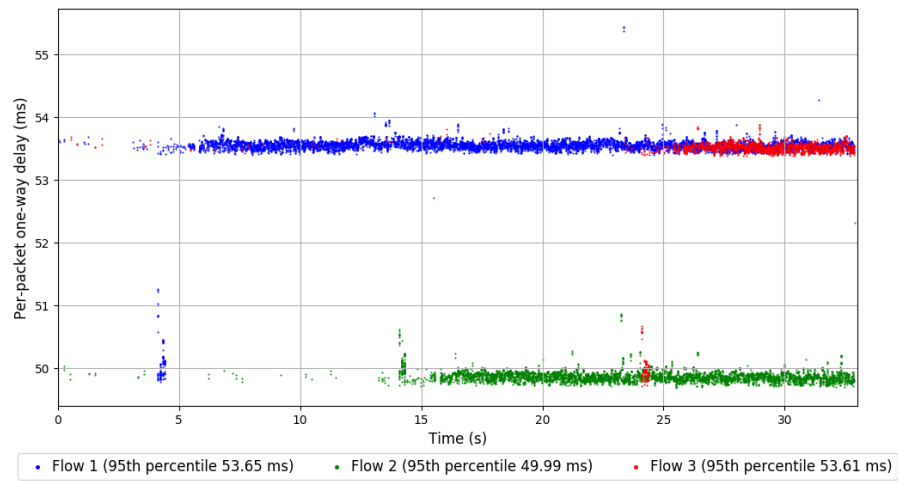
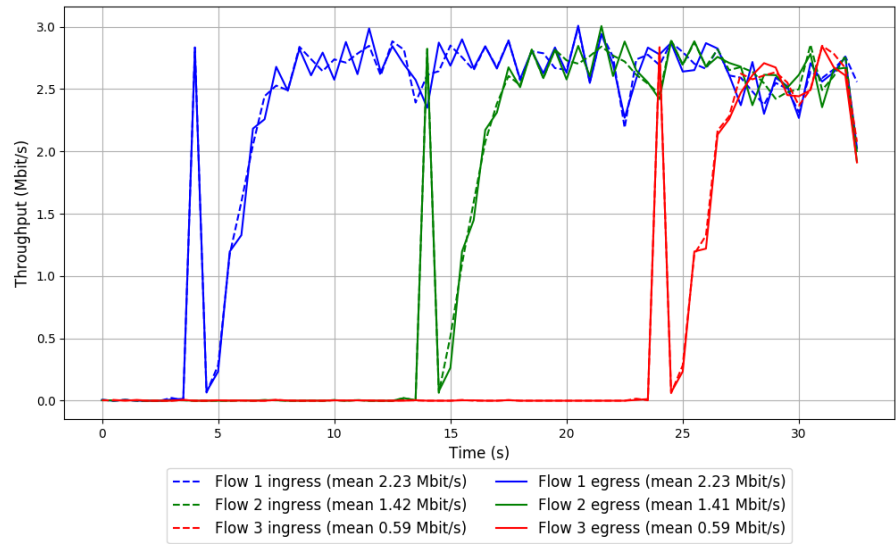
-- Flow 3:

Average throughput: 0.59 Mbit/s

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

Loss rate: 1.43%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 17:21:46

End at: 2018-01-26 17:22:16

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

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

Loss rate: 0.72%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 50.273 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.66%

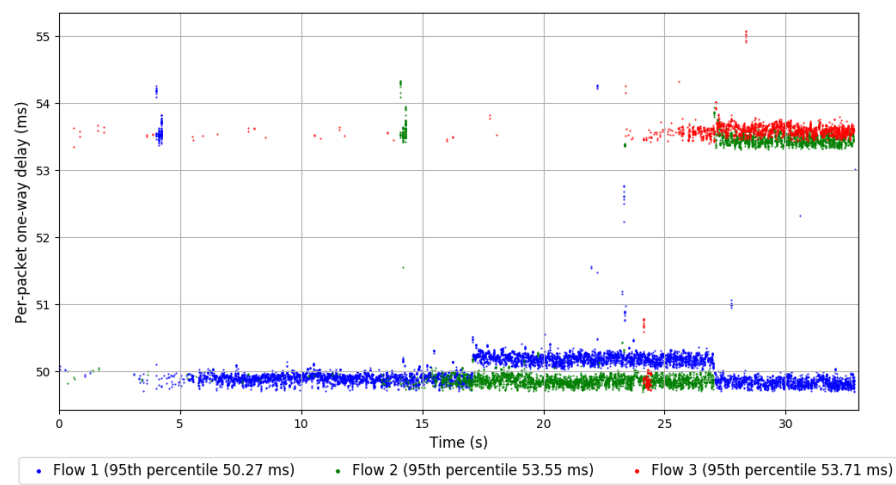
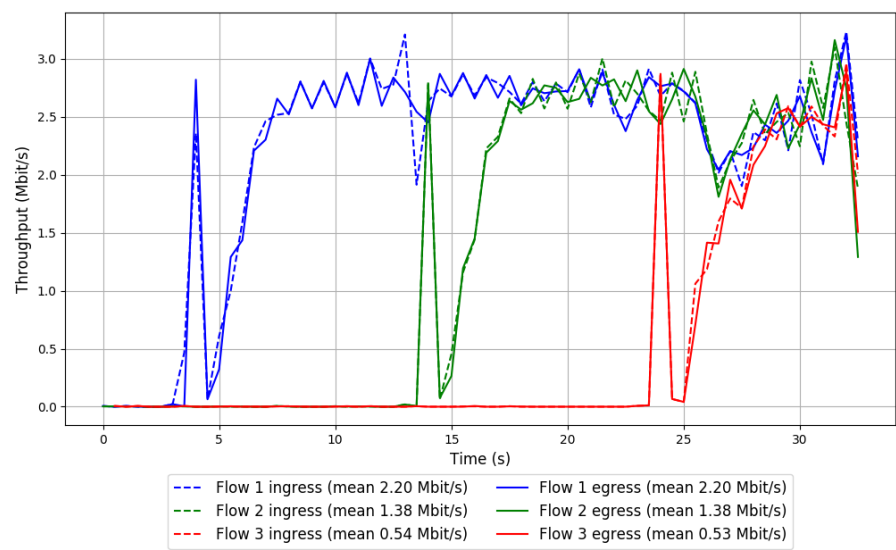
-- Flow 3:

Average throughput: 0.53 Mbit/s

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

Loss rate: 2.37%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 17:35:42

End at: 2018-01-26 17:36:12

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.587 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.597 ms

Loss rate: 0.75%

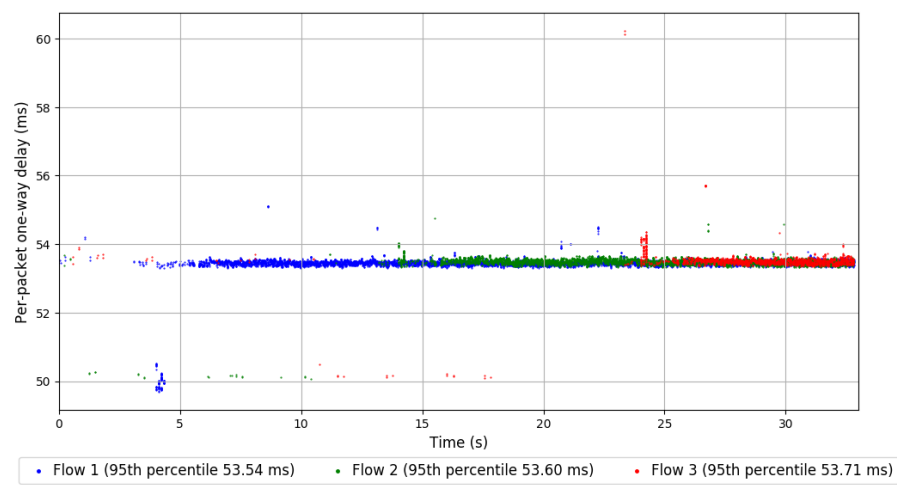
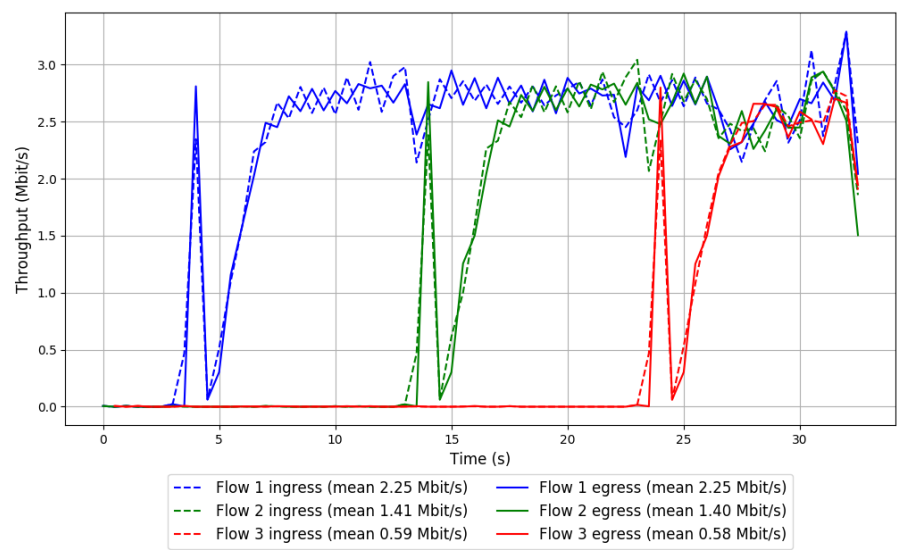
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 1.31%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 17:49:52

End at: 2018-01-26 17:50:22

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

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

Loss rate: 0.52%

-- Flow 1:

Average throughput: 2.21 Mbit/s

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

Loss rate: 0.44%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.30%

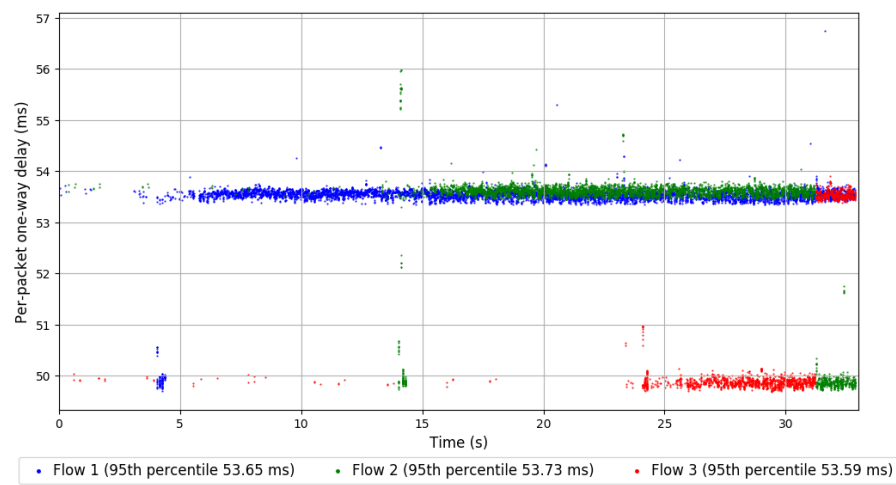
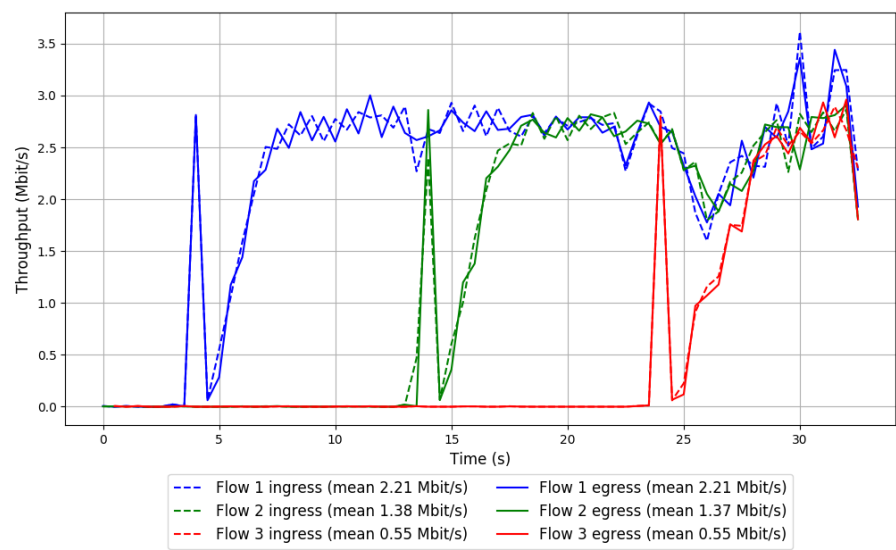
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 1.38%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 18:03:38

End at: 2018-01-26 18:04:08

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 53.654 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 2.22 Mbit/s

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

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 53.683 ms

Loss rate: 0.56%

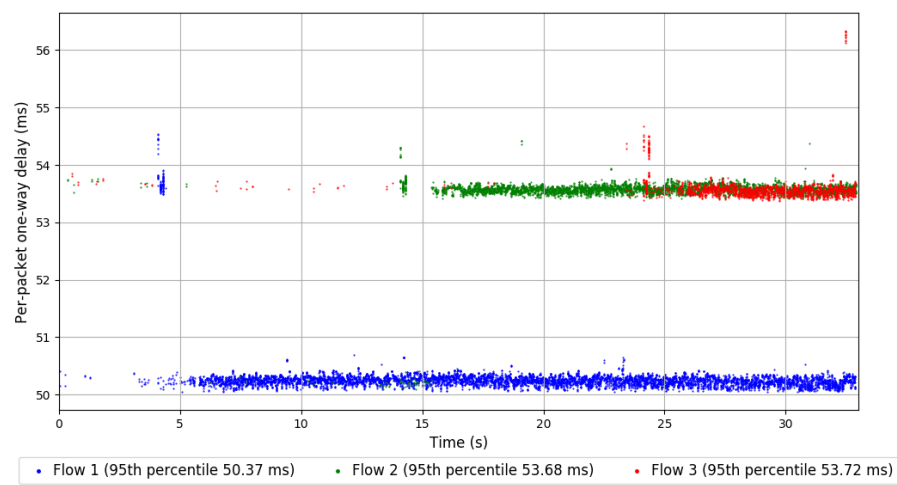
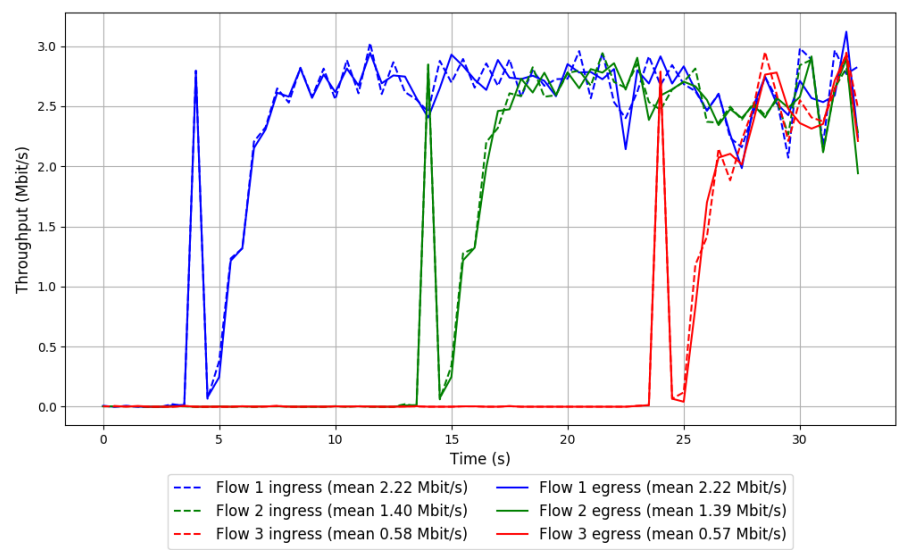
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 1.52%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 18:17:30

End at: 2018-01-26 18:18:00

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

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

Loss rate: 0.70%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 50.327 ms

Loss rate: 0.57%

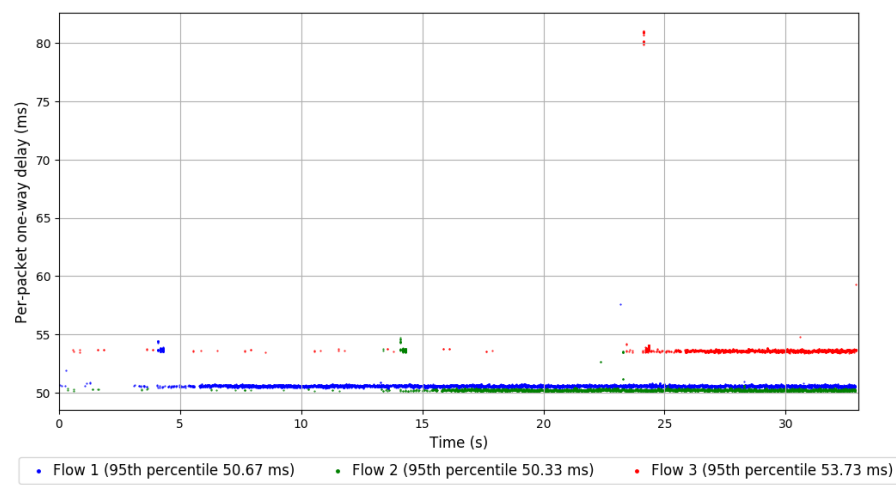
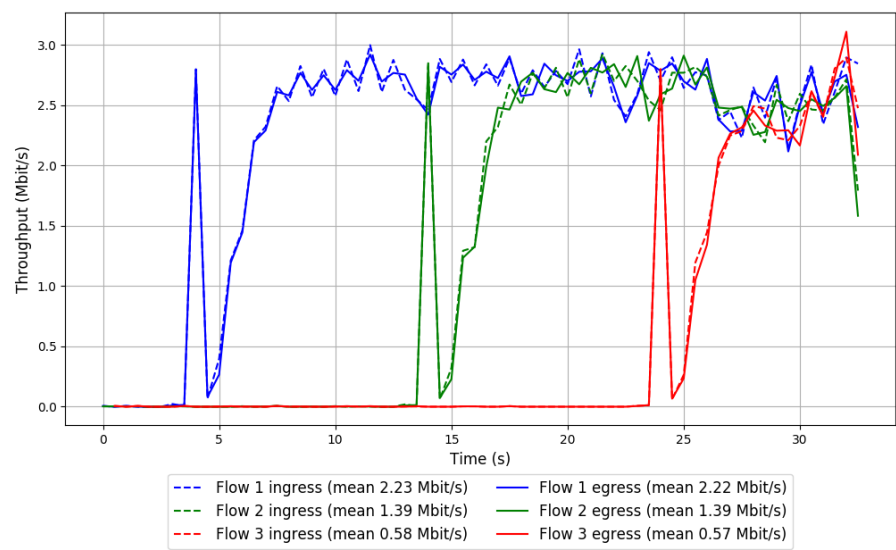
-- Flow 3:

Average throughput: 0.57 Mbit/s

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

Loss rate: 1.60%

Run 10: Report of WebRTC media — Data Link

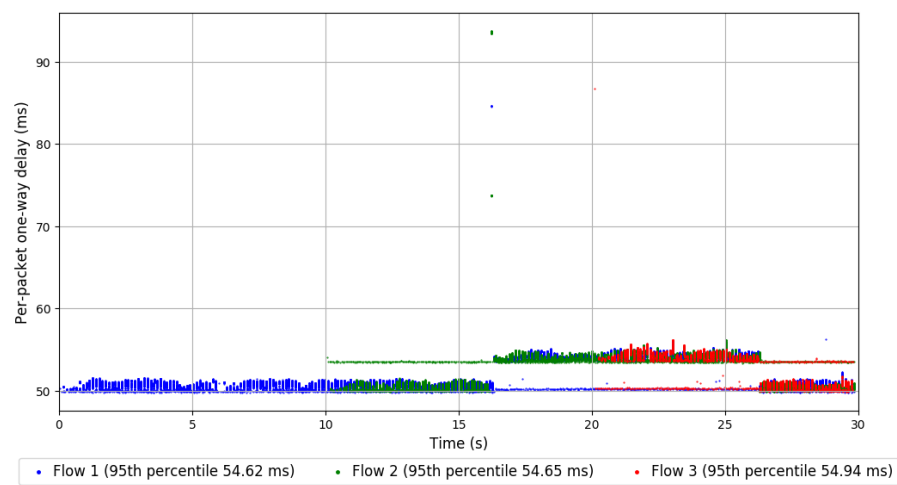
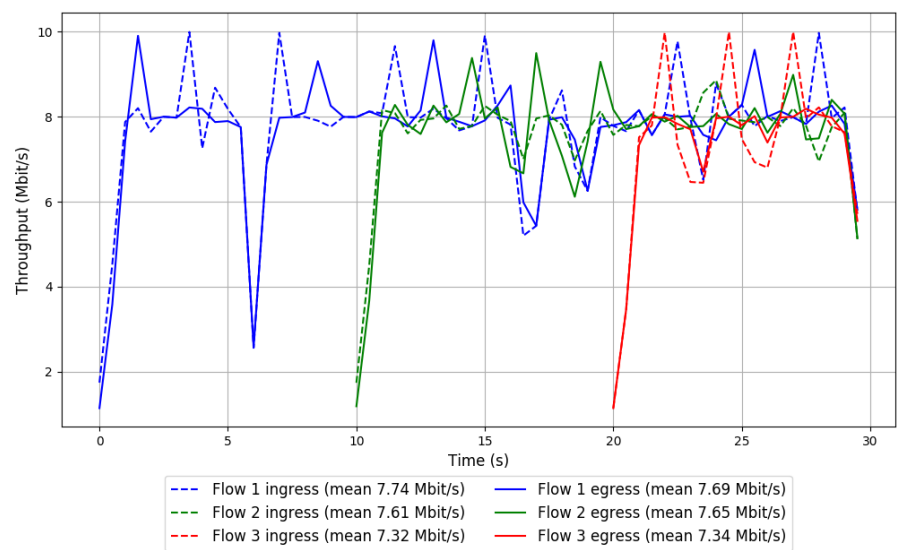


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 16:23:03
End at: 2018-01-26 16:23:33

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.17 Mbit/s
95th percentile per-packet one-way delay: 54.689 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 54.615 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 54.646 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 54.944 ms
Loss rate: 1.34%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 16:37:17

End at: 2018-01-26 16:37:47

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.01 Mbit/s

95th percentile per-packet one-way delay: 54.421 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.592 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.067 ms

Loss rate: 0.62%

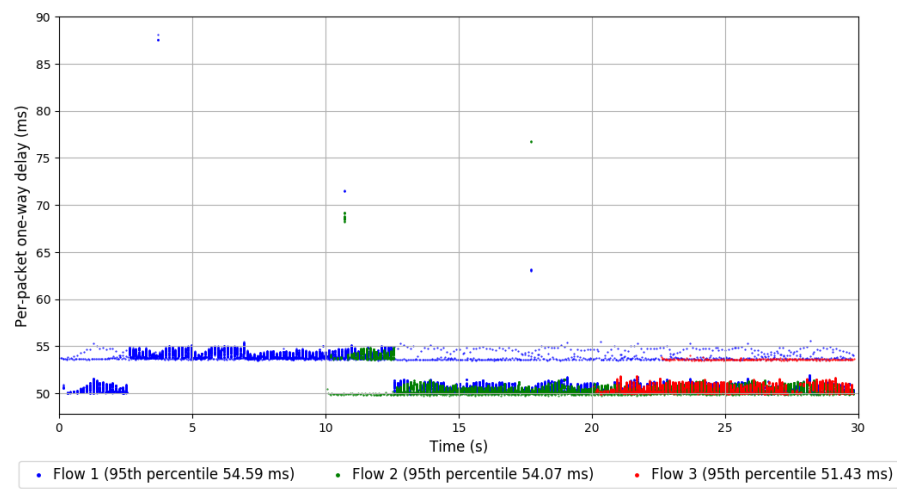
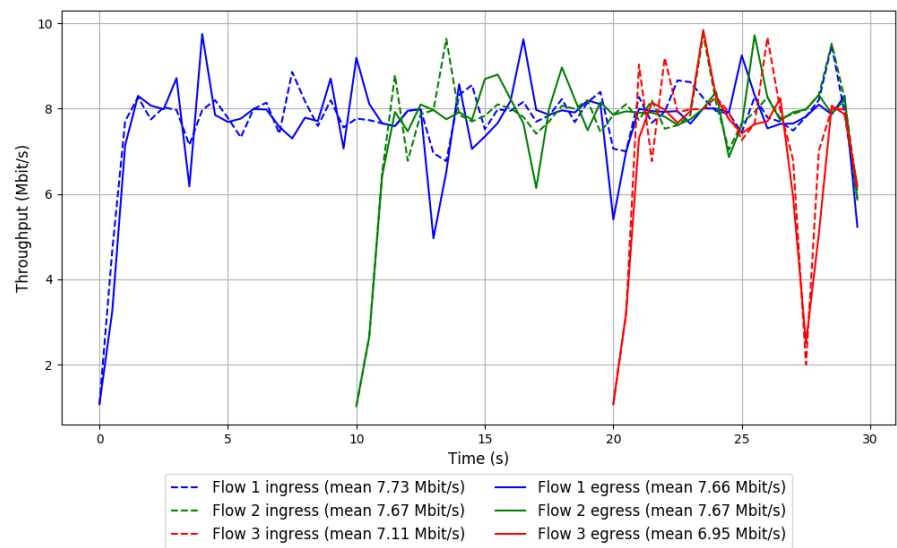
-- Flow 3:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 2.85%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 16:51:26

End at: 2018-01-26 16:51:56

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 54.683 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.664 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.635 ms

Loss rate: 1.05%

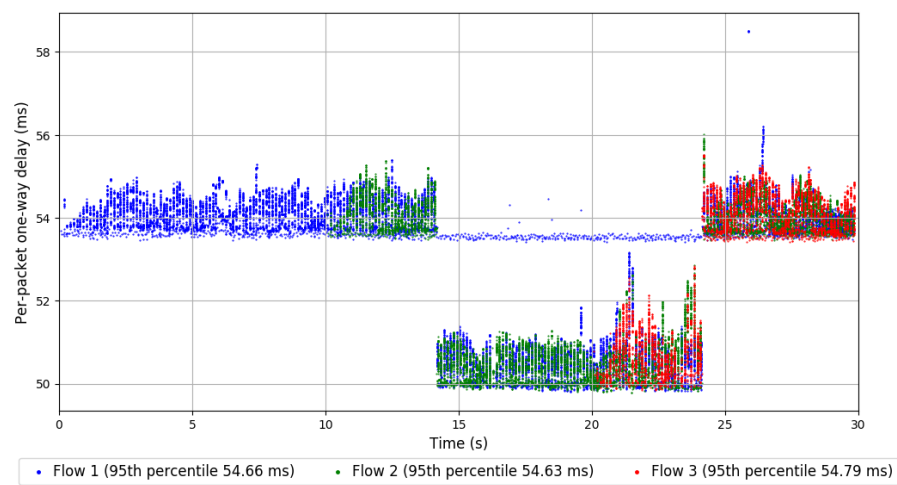
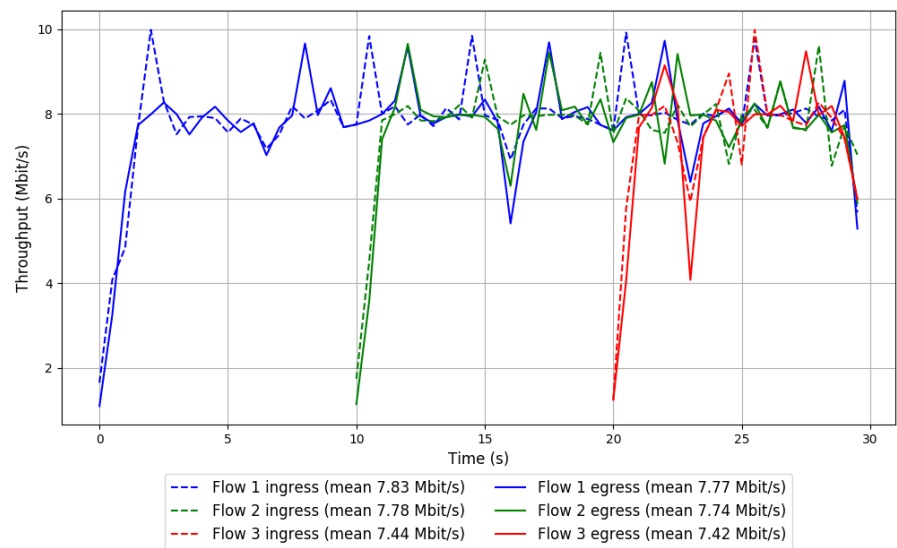
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.786 ms

Loss rate: 1.26%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 17:05:30

End at: 2018-01-26 17:06:00

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 54.754 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.791 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.612 ms

Loss rate: 0.82%

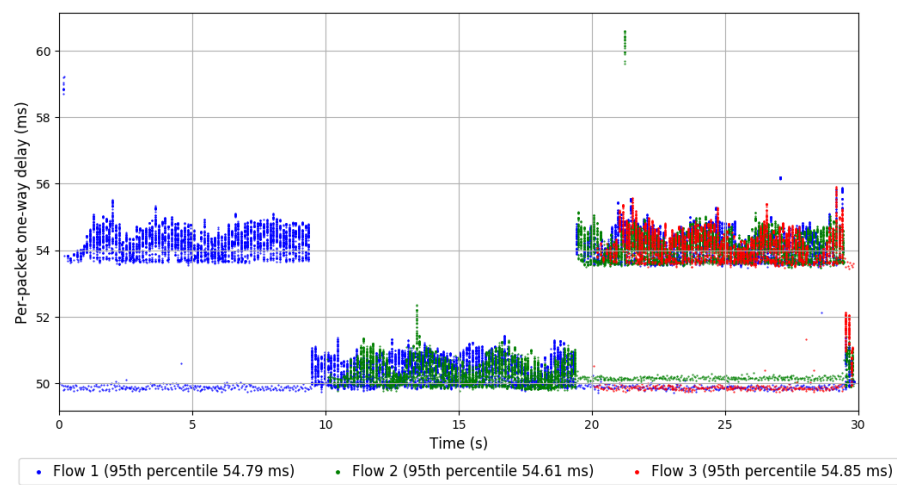
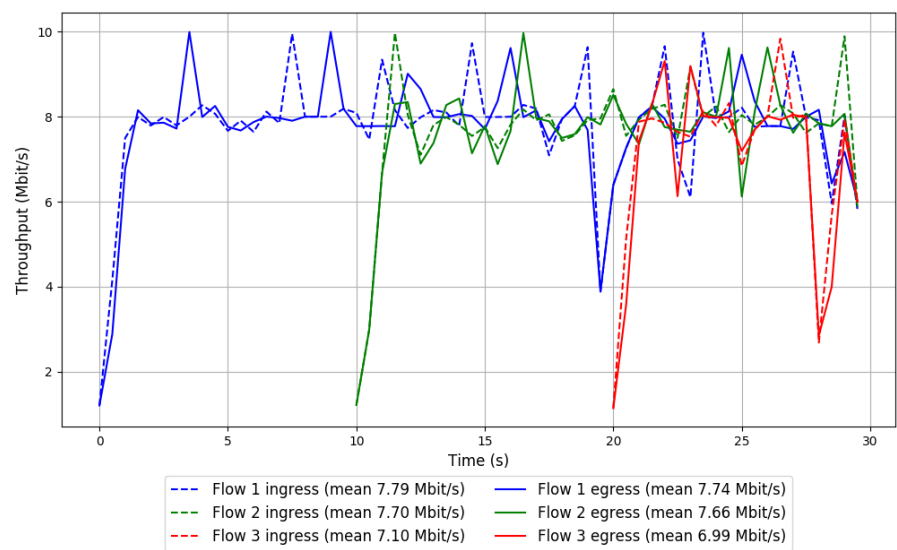
-- Flow 3:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 54.853 ms

Loss rate: 2.66%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 17:19:23

End at: 2018-01-26 17:19:53

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 54.330 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.388 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 54.353 ms

Loss rate: 1.48%

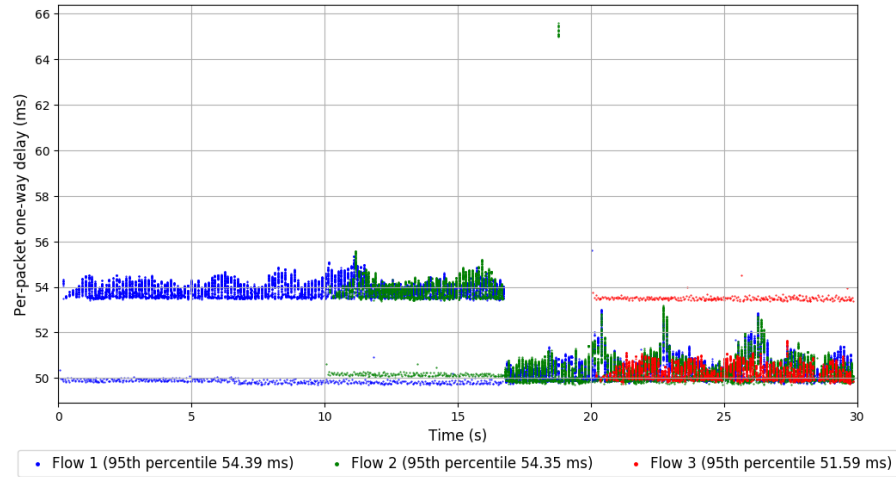
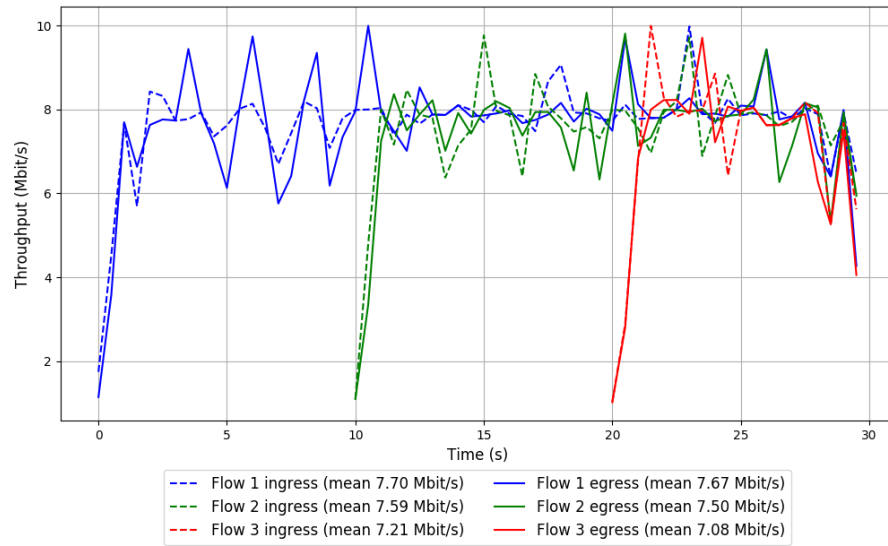
-- Flow 3:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 51.591 ms

Loss rate: 2.60%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

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

End at: 2018-01-26 17:33:49

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 54.649 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.675 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 7.72 Mbit/s

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

Loss rate: 0.56%

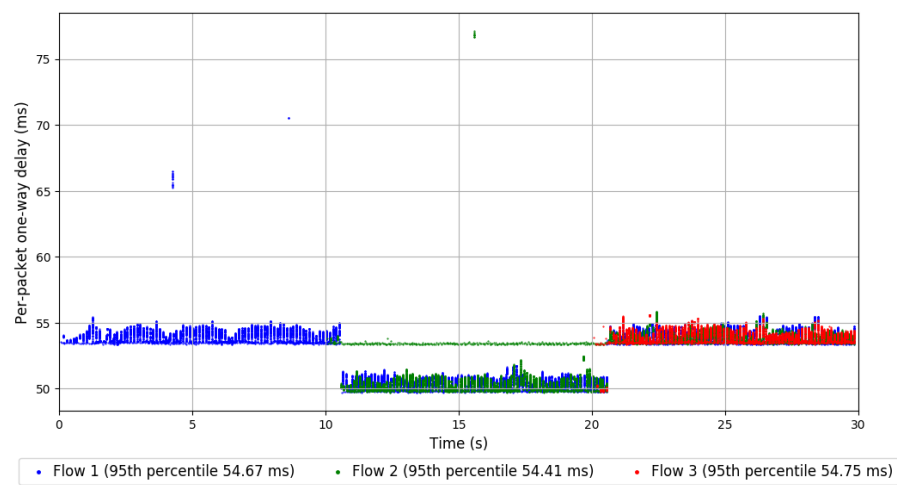
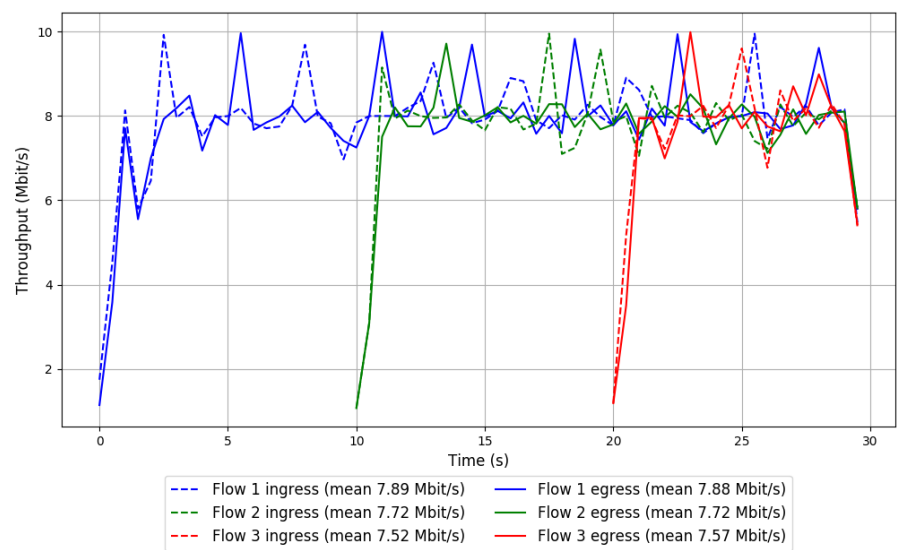
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 54.747 ms

Loss rate: 0.16%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 17:47:29

End at: 2018-01-26 17:47:59

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.48 Mbit/s

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

Loss rate: 0.49%

-- Flow 1:

Average throughput: 7.86 Mbit/s

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

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.534 ms

Loss rate: 0.64%

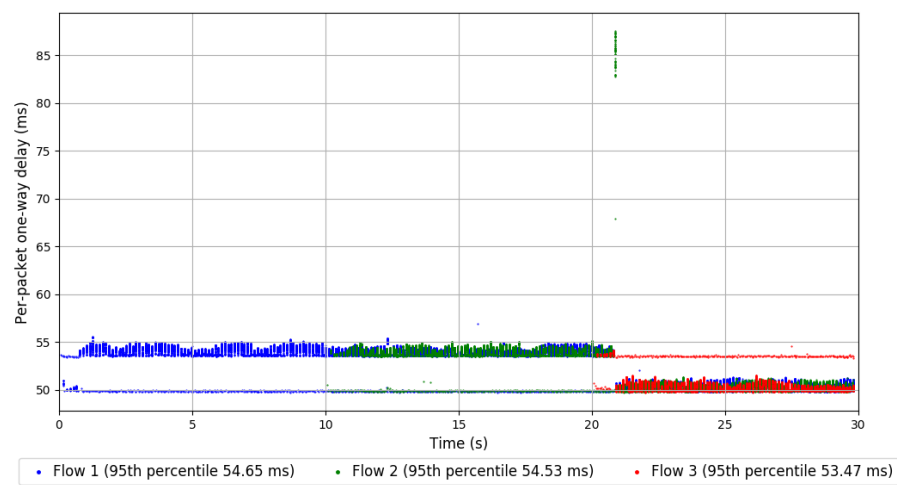
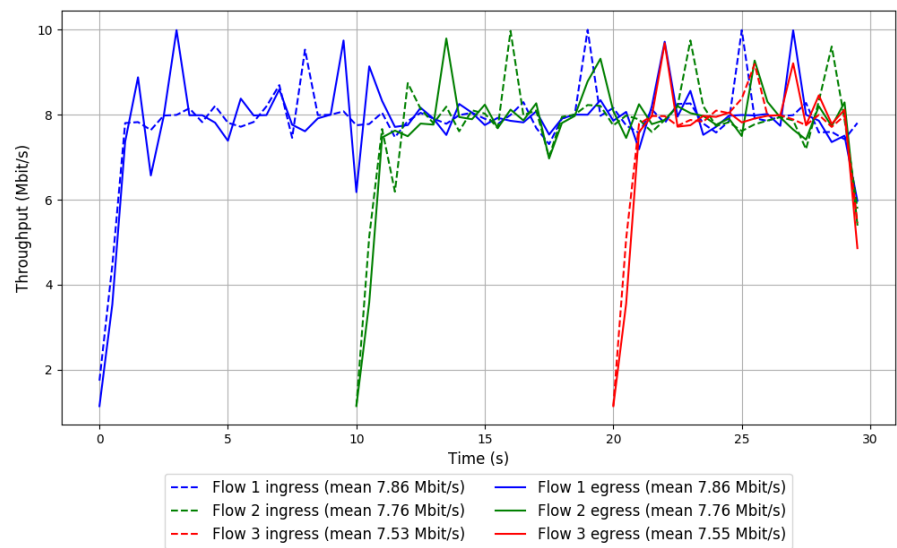
-- Flow 3:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 53.469 ms

Loss rate: 0.40%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 18:01:14

End at: 2018-01-26 18:01:44

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 54.804 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.619 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.922 ms

Loss rate: 1.21%

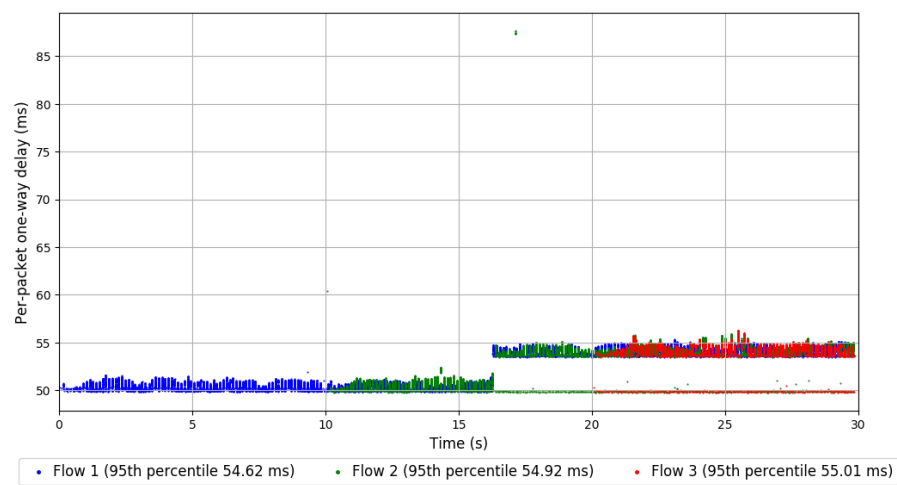
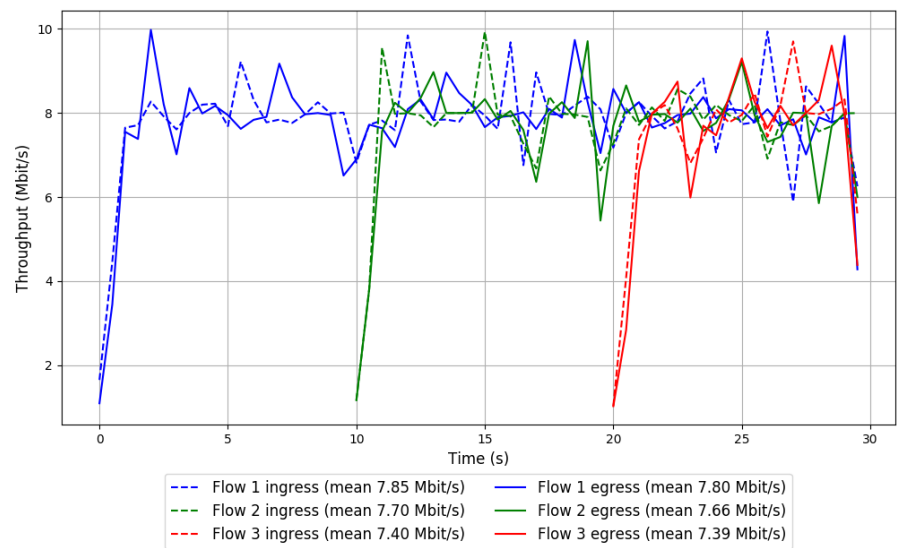
-- Flow 3:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 55.011 ms

Loss rate: 1.19%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 18:15:06

End at: 2018-01-26 18:15:36

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.90 Mbit/s

95th percentile per-packet one-way delay: 54.747 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.747 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 54.843 ms

Loss rate: 0.97%

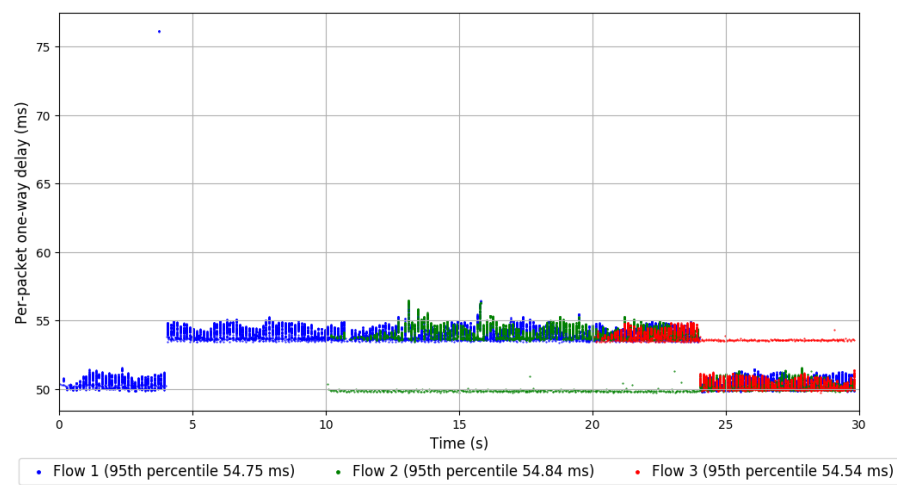
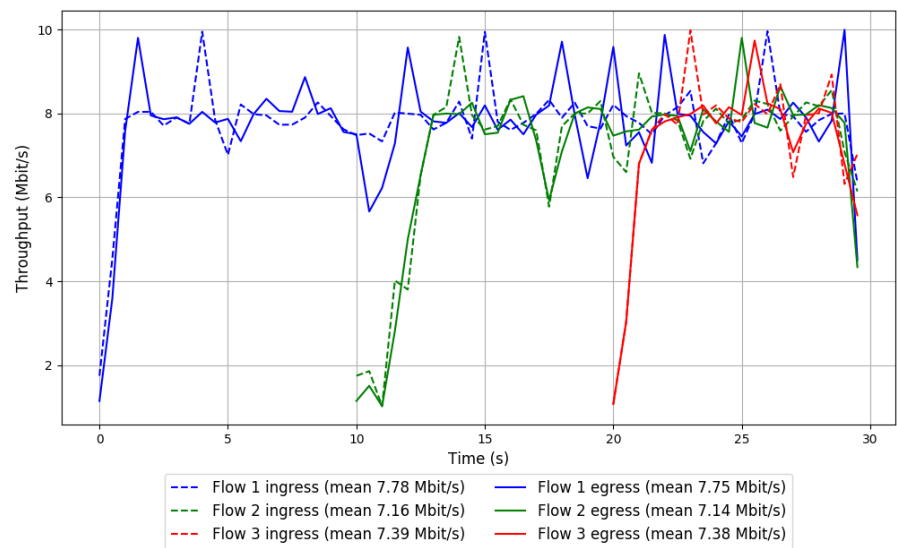
-- Flow 3:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 54.537 ms

Loss rate: 1.37%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 18:29:30

End at: 2018-01-26 18:30:00

Below is generated by plot.py at 2018-01-26 21:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 54.672 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.683 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.694 ms

Loss rate: 0.60%

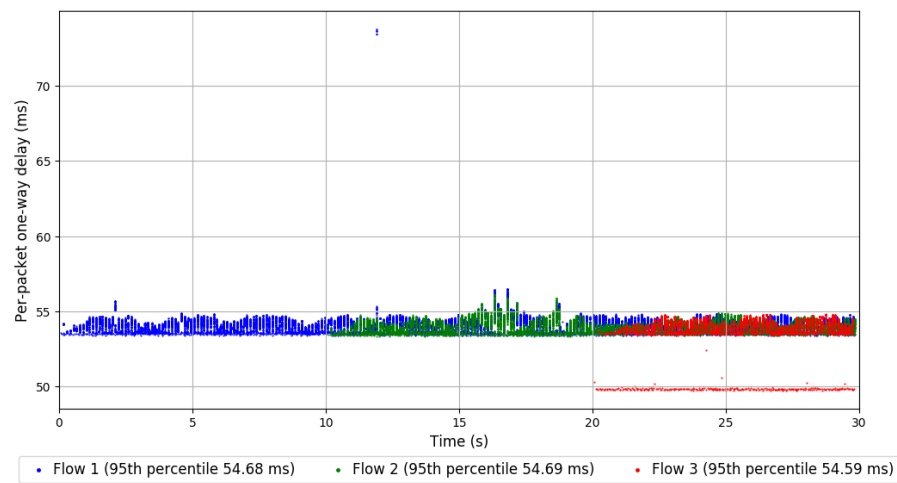
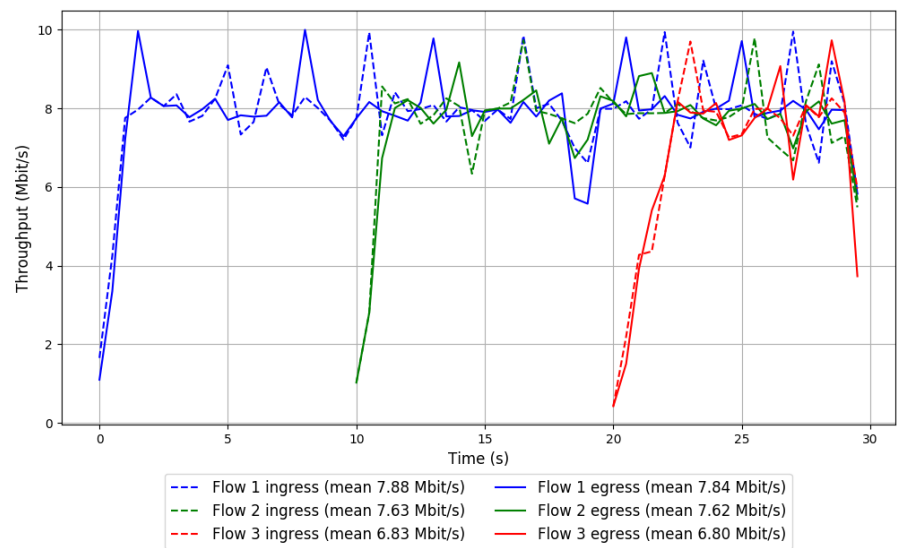
-- Flow 3:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 54.593 ms

Loss rate: 1.65%

Run 10: Report of Sprout — Data Link

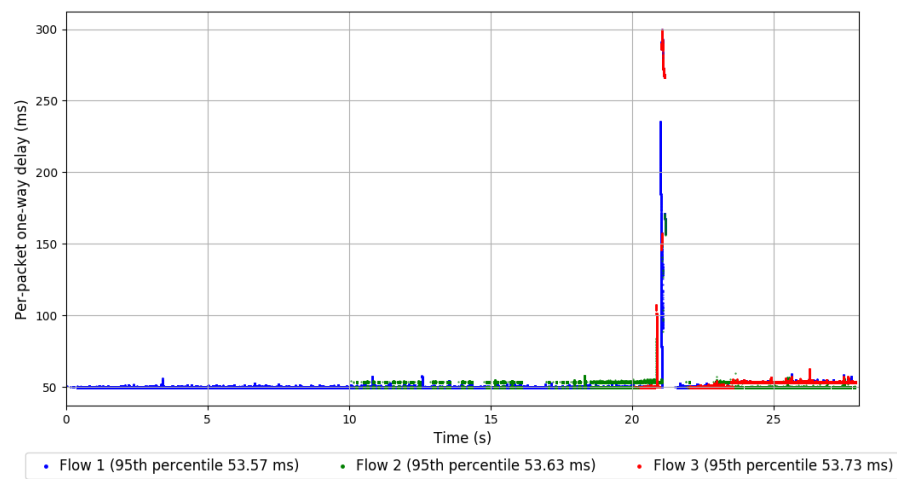
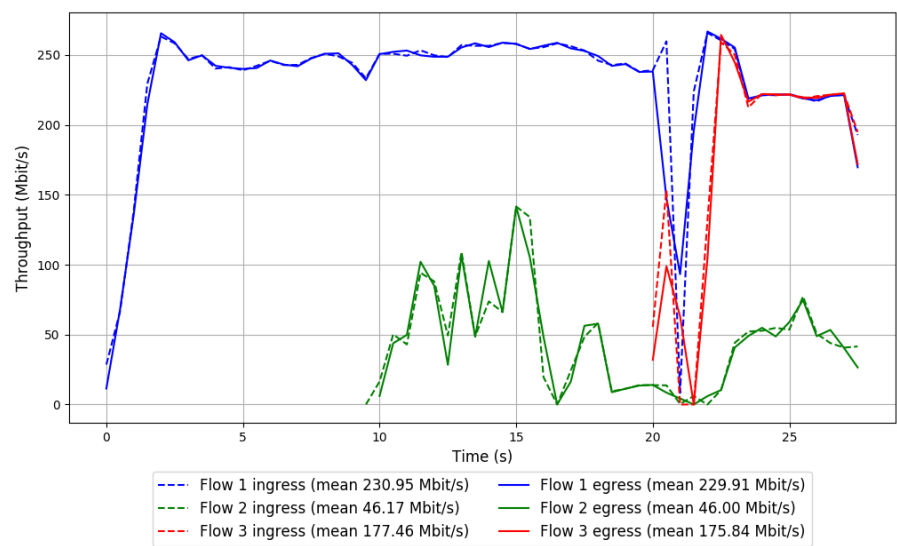


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 16:16:14
End at: 2018-01-26 16:16:44

# Below is generated by plot.py at 2018-01-26 21:35:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.63 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 229.91 Mbit/s
95th percentile per-packet one-way delay: 53.569 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 46.00 Mbit/s
95th percentile per-packet one-way delay: 53.626 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 175.84 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 2.18%
```


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

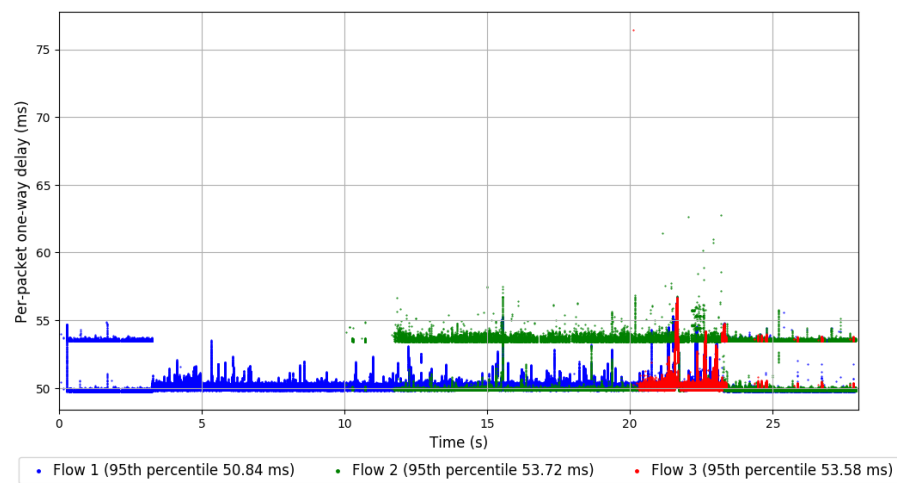
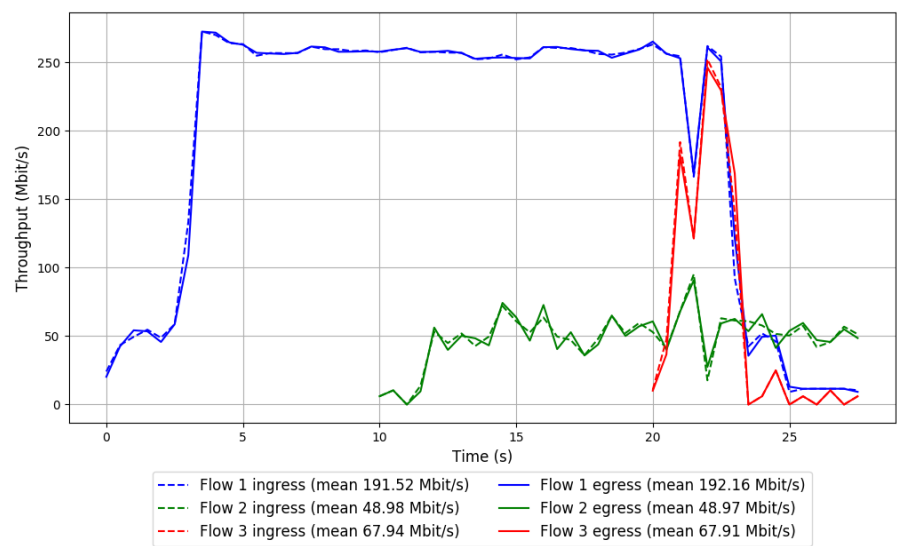


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 16:30:35
End at: 2018-01-26 16:31:05

# Below is generated by plot.py at 2018-01-26 21:35:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.37 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 192.16 Mbit/s
95th percentile per-packet one-way delay: 50.843 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 48.97 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 67.91 Mbit/s
95th percentile per-packet one-way delay: 53.582 ms
Loss rate: 0.00%
```

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

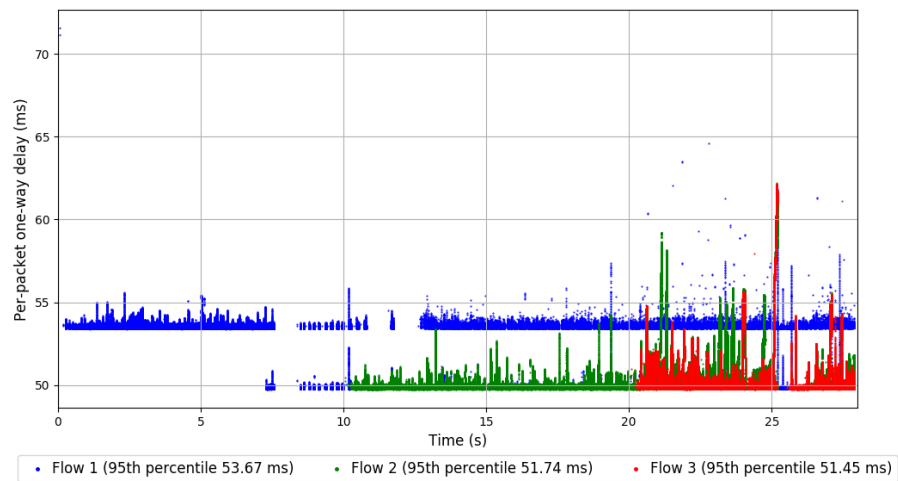
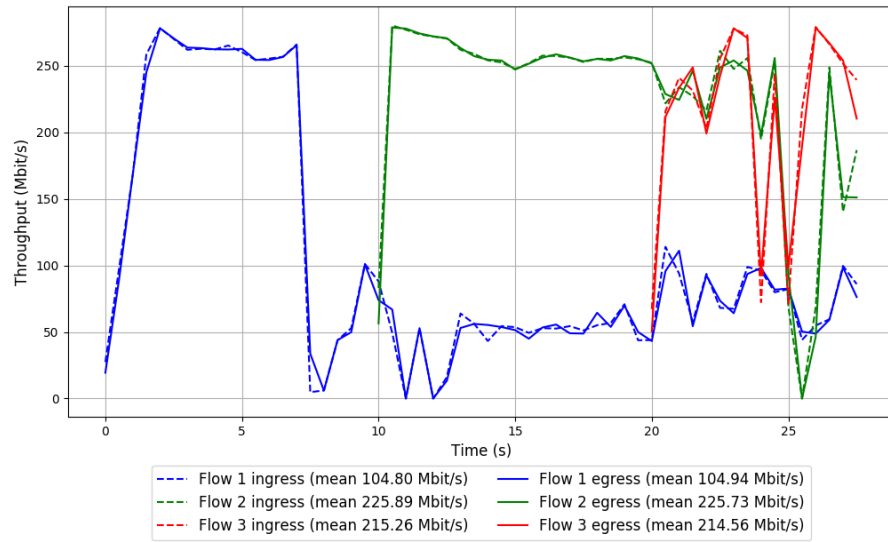


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 16:44:41
End at: 2018-01-26 16:45:11

# Below is generated by plot.py at 2018-01-26 21:36:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.91 Mbit/s
95th percentile per-packet one-way delay: 53.613 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 104.94 Mbit/s
95th percentile per-packet one-way delay: 53.668 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 225.73 Mbit/s
95th percentile per-packet one-way delay: 51.736 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 214.56 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 1.60%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 16:58:54

End at: 2018-01-26 16:59:24

Below is generated by plot.py at 2018-01-26 21:36:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.63 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 53.543 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 99.68 Mbit/s

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

Loss rate: 0.01%

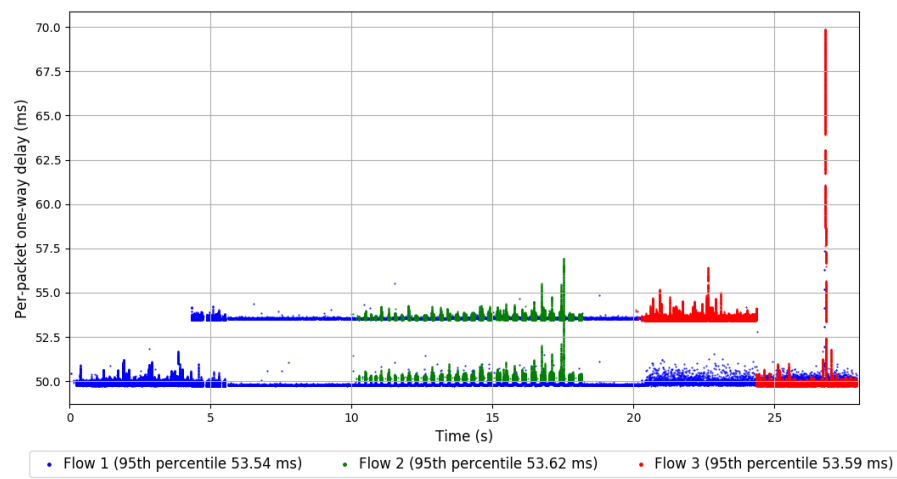
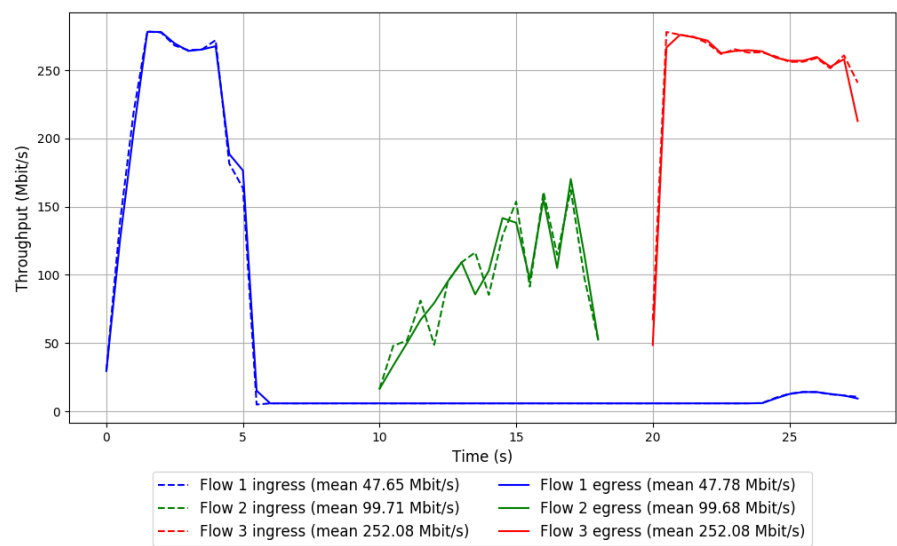
-- Flow 3:

Average throughput: 252.08 Mbit/s

95th percentile per-packet one-way delay: 53.587 ms

Loss rate: 1.36%

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

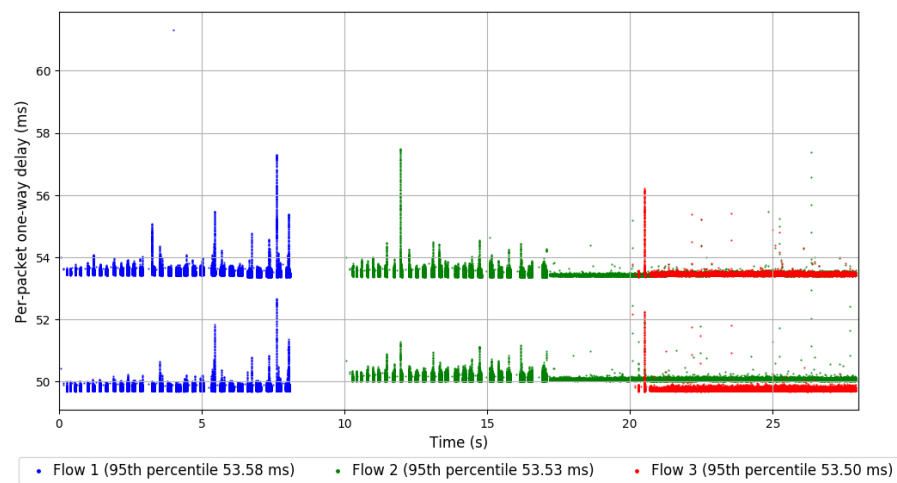
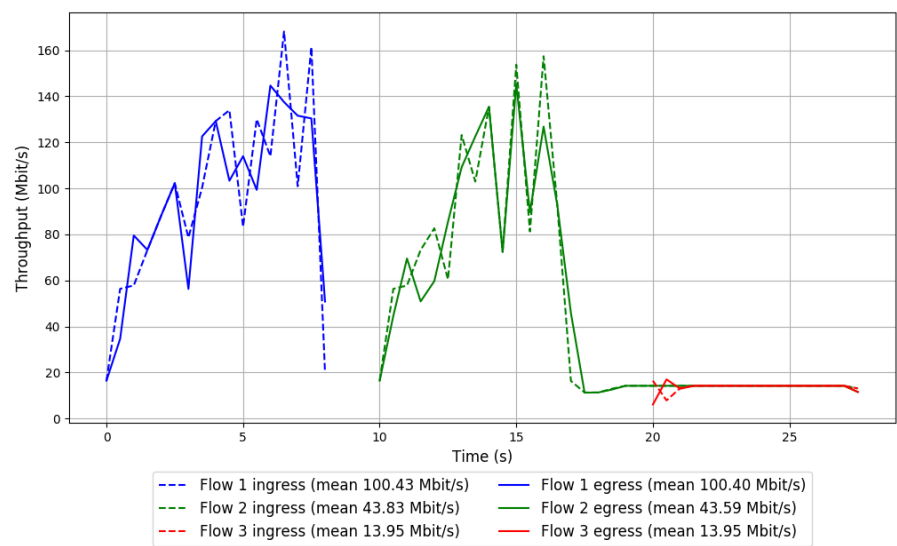


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 17:12:57
End at: 2018-01-26 17:13:27

# Below is generated by plot.py at 2018-01-26 21:36:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 53.561 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 100.40 Mbit/s
95th percentile per-packet one-way delay: 53.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.59 Mbit/s
95th percentile per-packet one-way delay: 53.526 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 13.95 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 1.38%
```


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

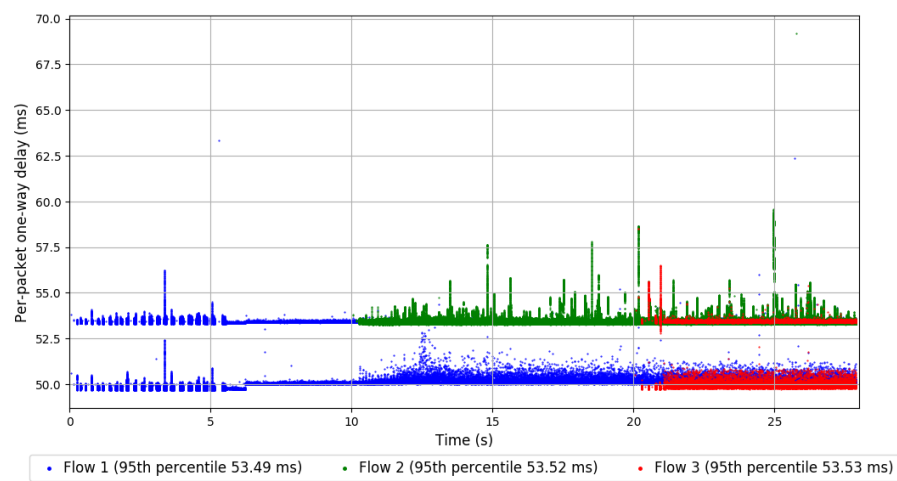
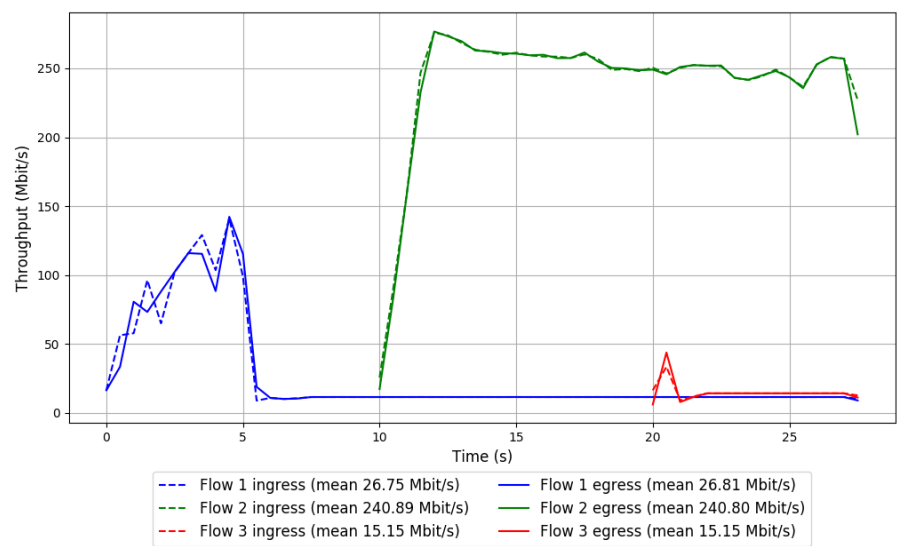


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 17:26:42
End at: 2018-01-26 17:27:12

# Below is generated by plot.py at 2018-01-26 21:36:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 185.27 Mbit/s
95th percentile per-packet one-way delay: 53.511 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 240.80 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 53.528 ms
Loss rate: 1.27%
```

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 17:40:43

End at: 2018-01-26 17:41:13

Below is generated by plot.py at 2018-01-26 21:38:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.93 Mbit/s

95th percentile per-packet one-way delay: 53.466 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 158.48 Mbit/s

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

Loss rate: 0.63%

-- Flow 2:

Average throughput: 163.24 Mbit/s

95th percentile per-packet one-way delay: 53.353 ms

Loss rate: 0.32%

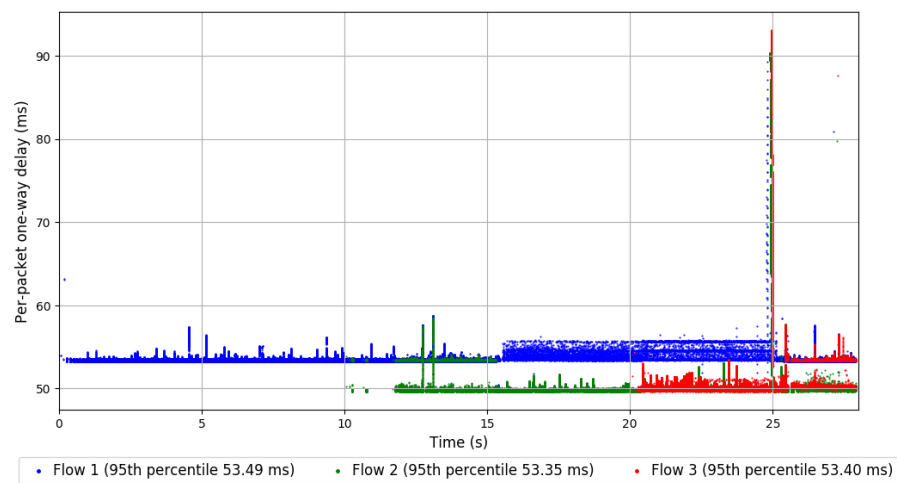
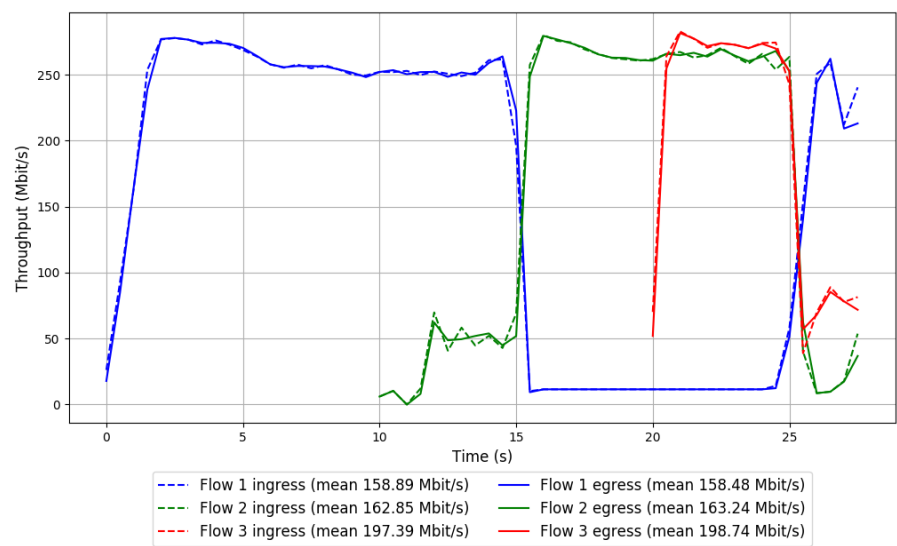
-- Flow 3:

Average throughput: 198.74 Mbit/s

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

Loss rate: 0.60%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 17:54:50

End at: 2018-01-26 17:55:20

Below is generated by plot.py at 2018-01-26 21:38:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.64 Mbit/s

95th percentile per-packet one-way delay: 53.559 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 31.95 Mbit/s

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

Loss rate: 0.74%

-- Flow 2:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 53.551 ms

Loss rate: 0.15%

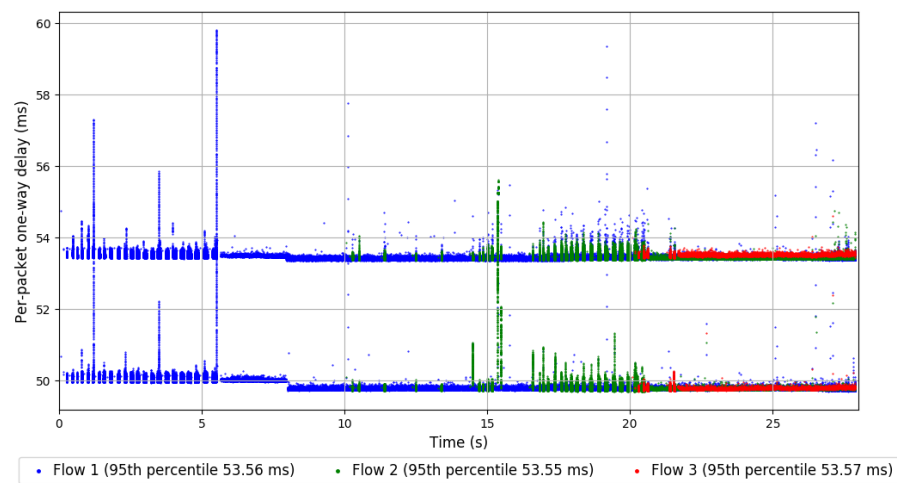
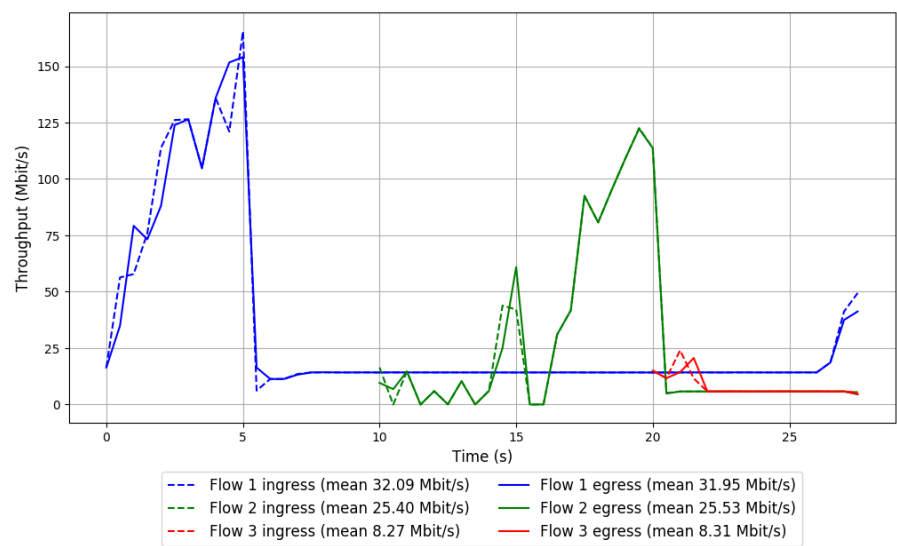
-- Flow 3:

Average throughput: 8.31 Mbit/s

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

Loss rate: 1.07%

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

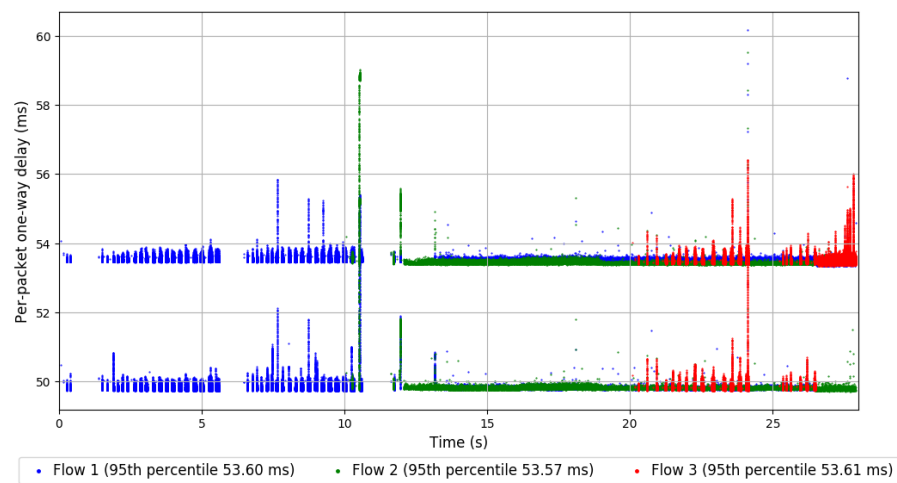
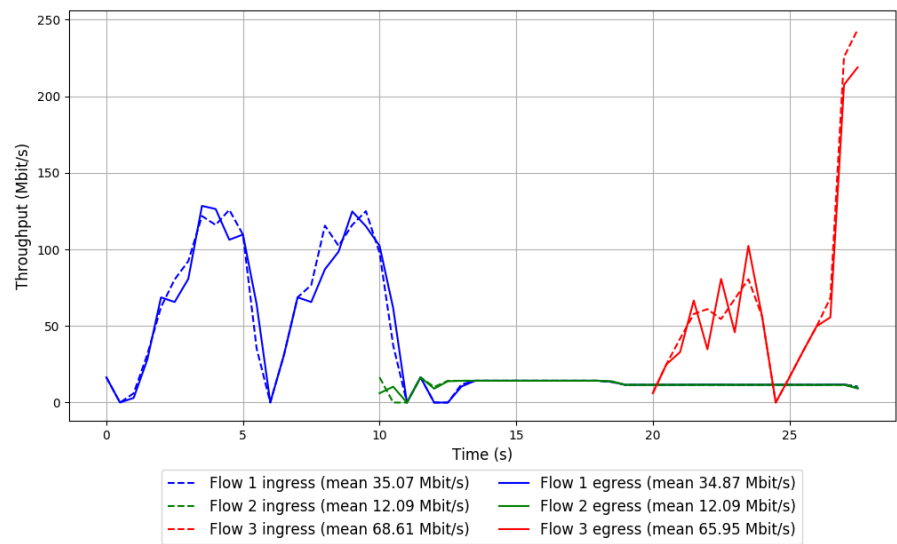


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 18:08:41
End at: 2018-01-26 18:09:11

# Below is generated by plot.py at 2018-01-26 21:38:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.14 Mbit/s
95th percentile per-packet one-way delay: 53.601 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 5.10%
```


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

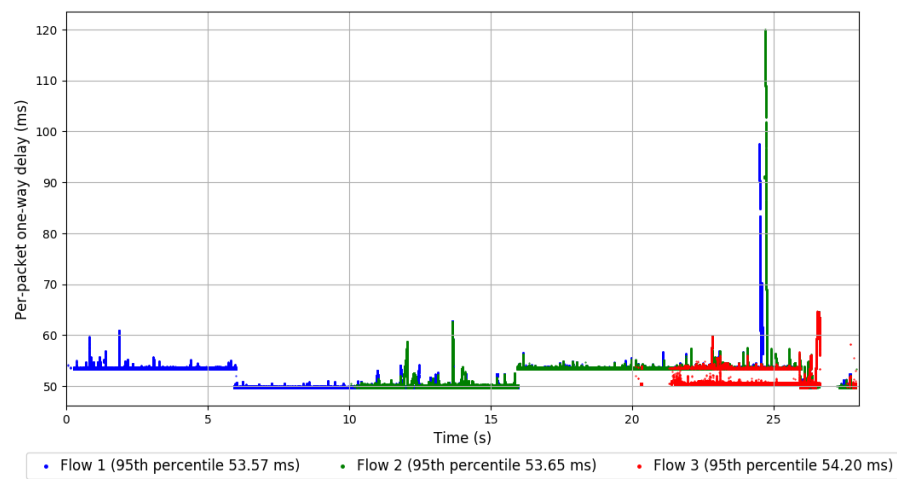
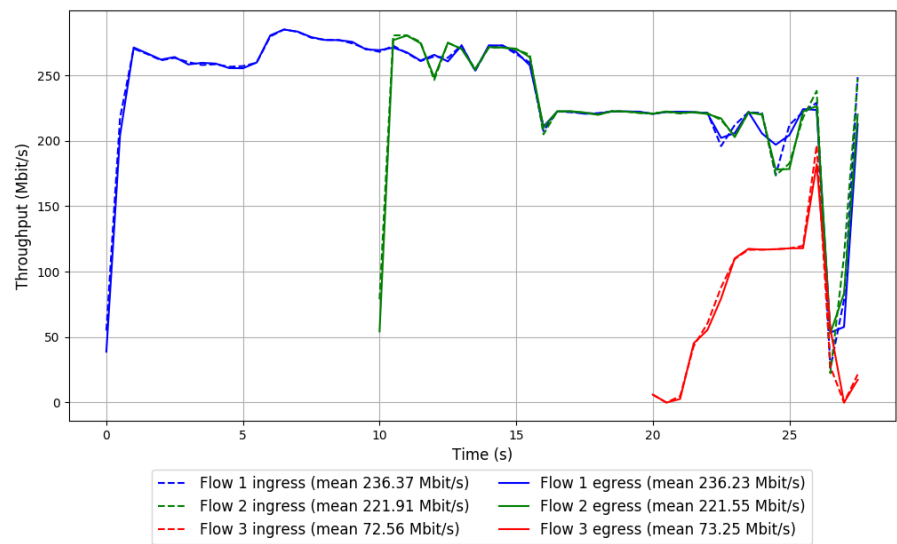


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 18:22:32
End at: 2018-01-26 18:23:02

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.62 Mbit/s
95th percentile per-packet one-way delay: 53.594 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 236.23 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 53.645 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 73.25 Mbit/s
95th percentile per-packet one-way delay: 54.205 ms
Loss rate: 0.36%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 16:14:19

End at: 2018-01-26 16:14:49

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.23 Mbit/s

95th percentile per-packet one-way delay: 51.911 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 159.83 Mbit/s

95th percentile per-packet one-way delay: 51.601 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 52.696 ms

Loss rate: 0.55%

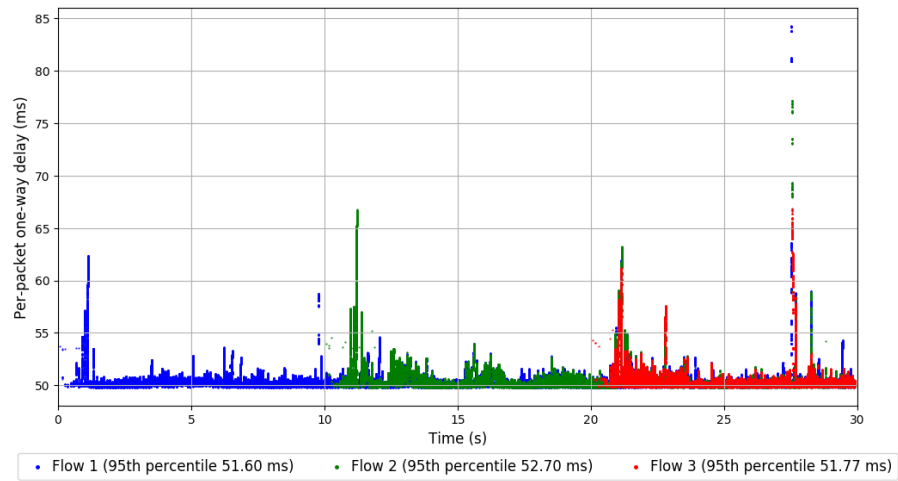
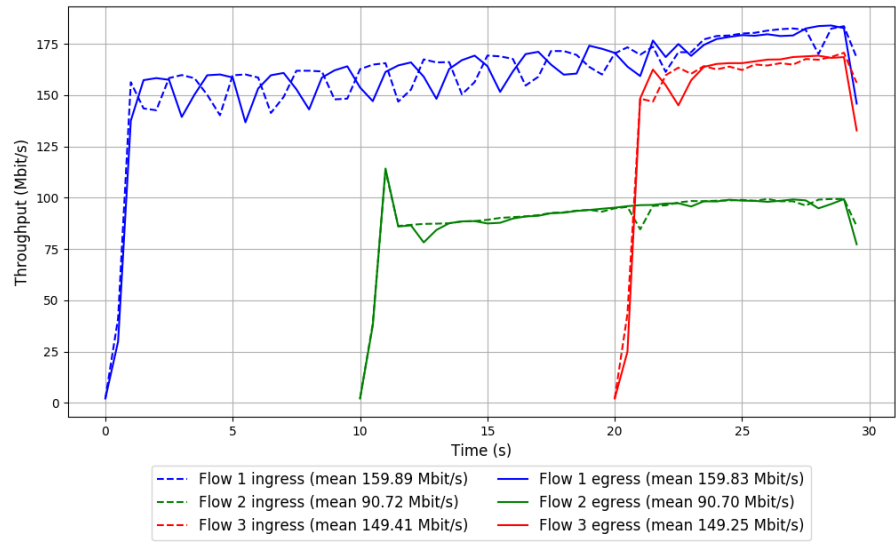
-- Flow 3:

Average throughput: 149.25 Mbit/s

95th percentile per-packet one-way delay: 51.767 ms

Loss rate: 1.16%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 16:28:48

End at: 2018-01-26 16:29:18

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 54.851 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 19.13 Mbit/s

95th percentile per-packet one-way delay: 53.995 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 71.37 Mbit/s

95th percentile per-packet one-way delay: 55.540 ms

Loss rate: 0.49%

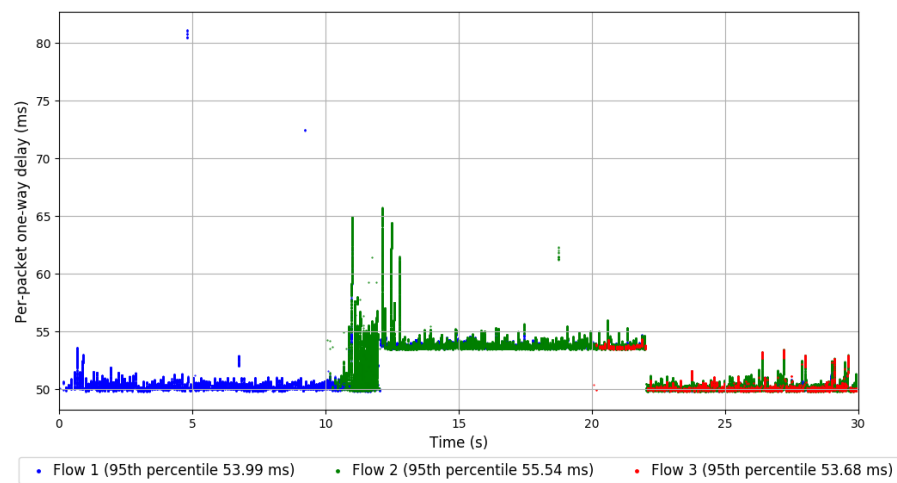
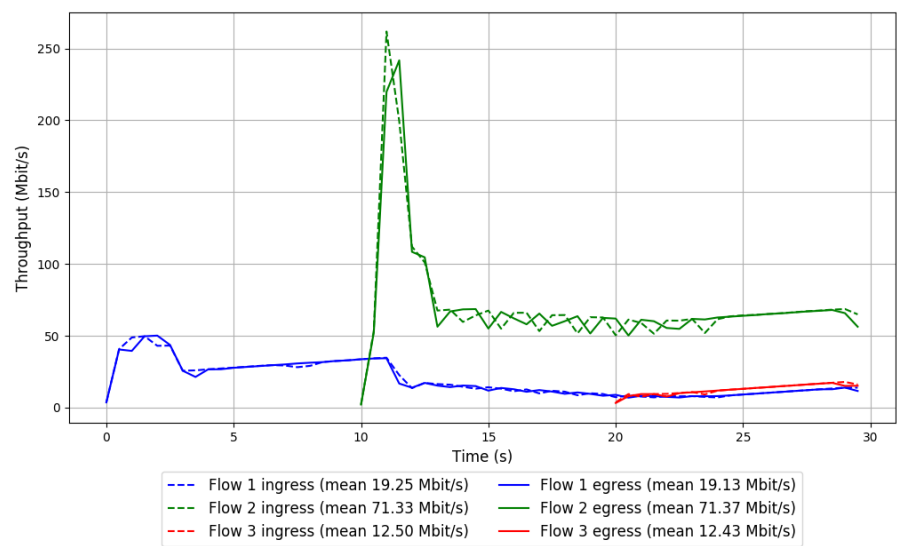
-- Flow 3:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 1.51%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 16:42:56

End at: 2018-01-26 16:43:26

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.09 Mbit/s

95th percentile per-packet one-way delay: 54.861 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 38.88 Mbit/s

95th percentile per-packet one-way delay: 54.486 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 55.68 Mbit/s

95th percentile per-packet one-way delay: 55.412 ms

Loss rate: 1.21%

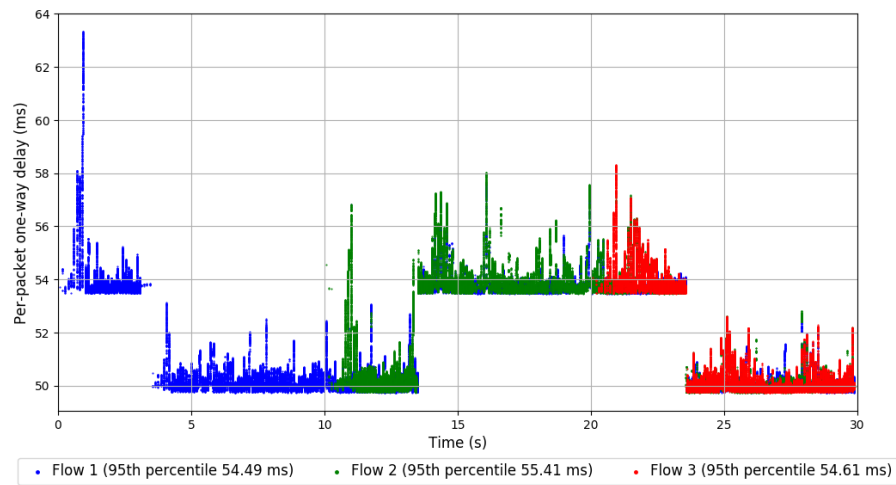
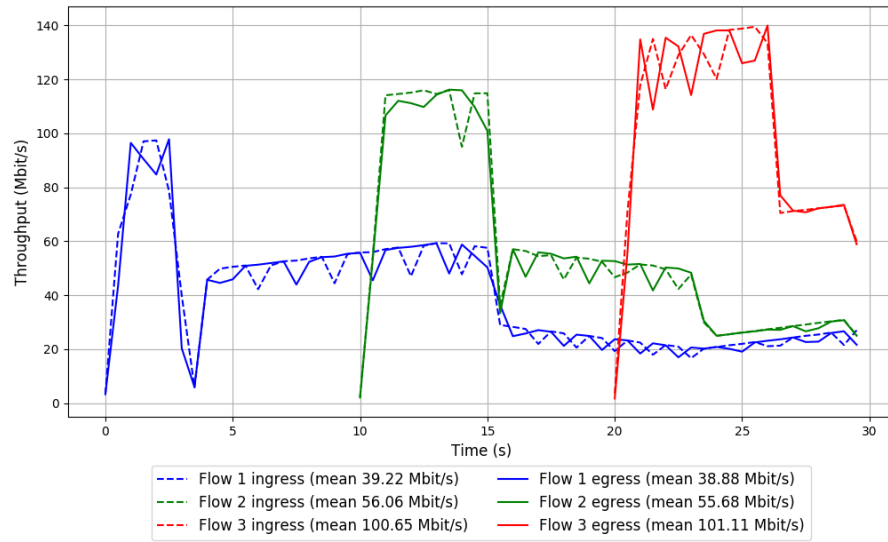
-- Flow 3:

Average throughput: 101.11 Mbit/s

95th percentile per-packet one-way delay: 54.608 ms

Loss rate: 0.75%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 16:57:08

End at: 2018-01-26 16:57:38

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 59.714 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 17.64 Mbit/s

95th percentile per-packet one-way delay: 54.352 ms

Loss rate: 1.37%

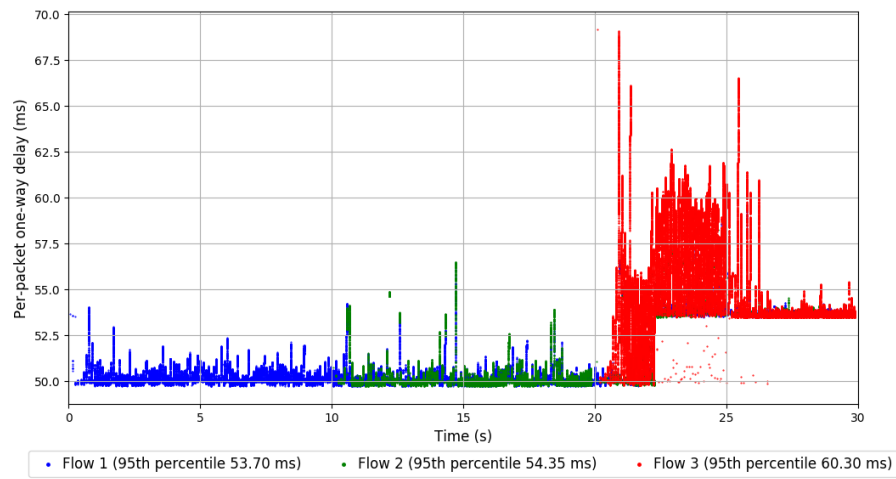
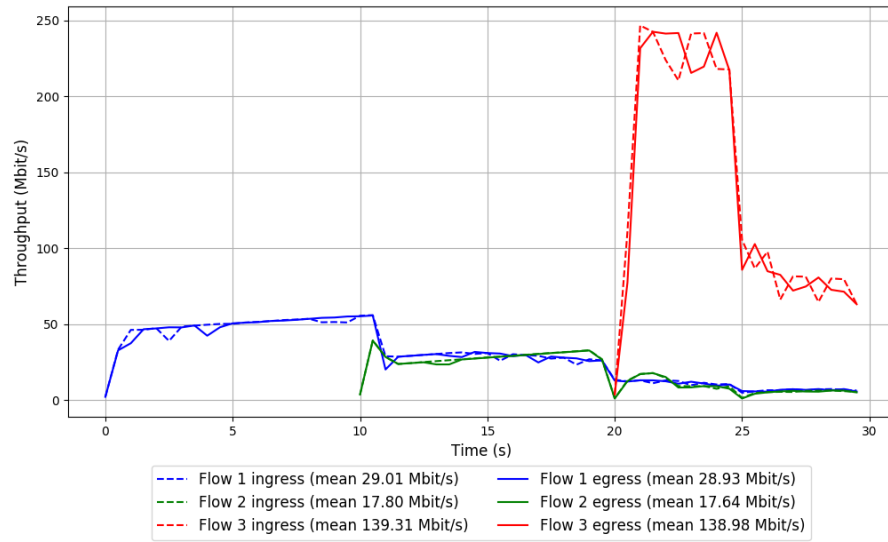
-- Flow 3:

Average throughput: 138.98 Mbit/s

95th percentile per-packet one-way delay: 60.301 ms

Loss rate: 1.46%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 17:11:10

End at: 2018-01-26 17:11:40

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.49 Mbit/s

95th percentile per-packet one-way delay: 54.743 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 51.52 Mbit/s

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

Loss rate: 0.77%

-- Flow 2:

Average throughput: 55.72 Mbit/s

95th percentile per-packet one-way delay: 54.647 ms

Loss rate: 0.46%

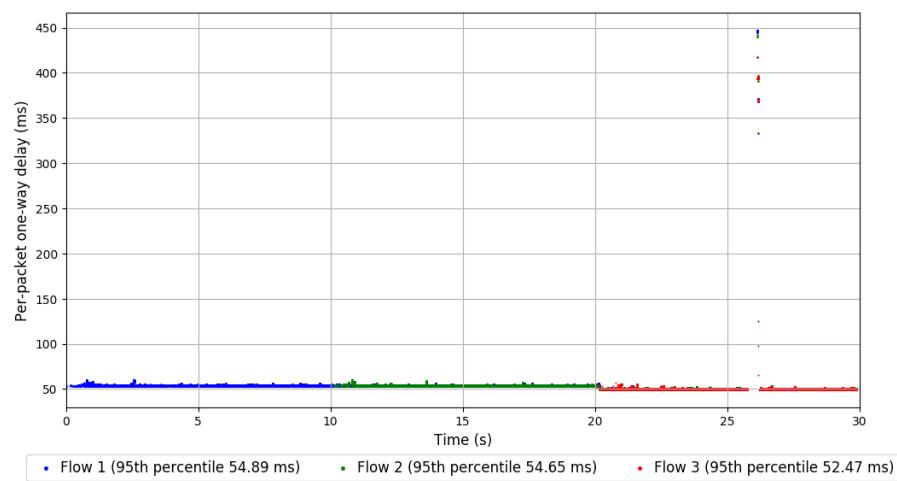
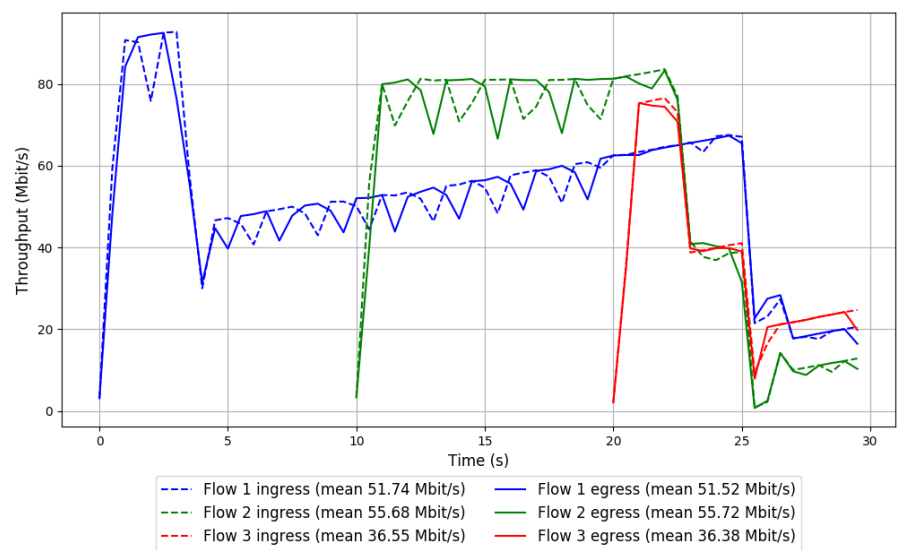
-- Flow 3:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 52.474 ms

Loss rate: 1.47%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 17:24:55

End at: 2018-01-26 17:25:25

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.95 Mbit/s

95th percentile per-packet one-way delay: 55.068 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 55.136 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 54.49 Mbit/s

95th percentile per-packet one-way delay: 55.293 ms

Loss rate: 0.54%

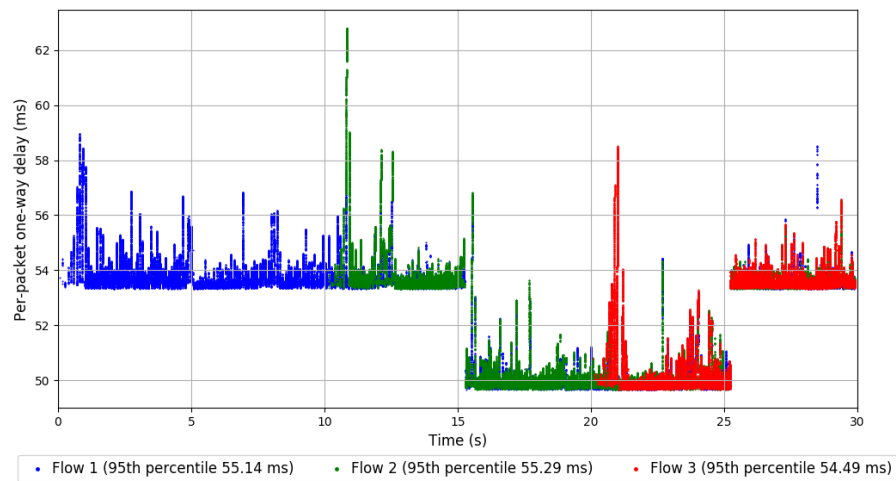
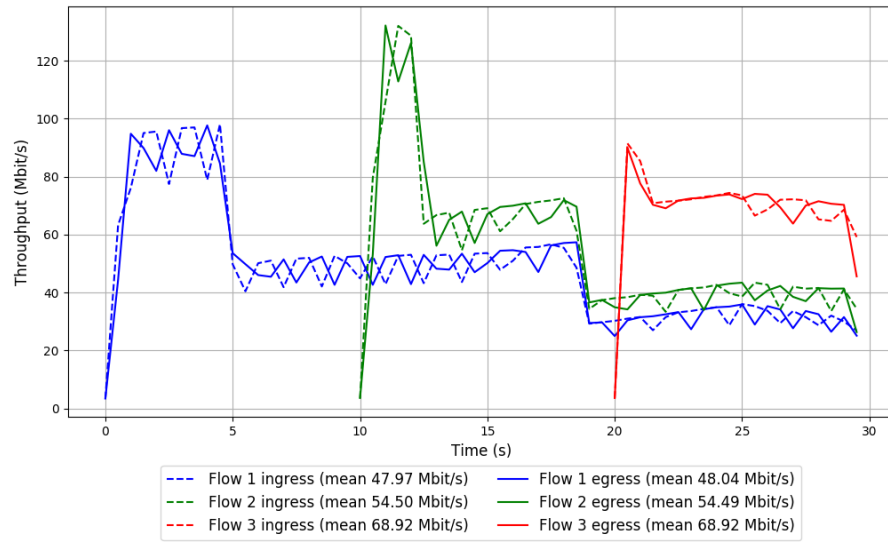
-- Flow 3:

Average throughput: 68.92 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 1.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 17:38:55

End at: 2018-01-26 17:39:25

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.92 Mbit/s

95th percentile per-packet one-way delay: 55.745 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 54.063 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 62.17 Mbit/s

95th percentile per-packet one-way delay: 57.340 ms

Loss rate: 0.83%

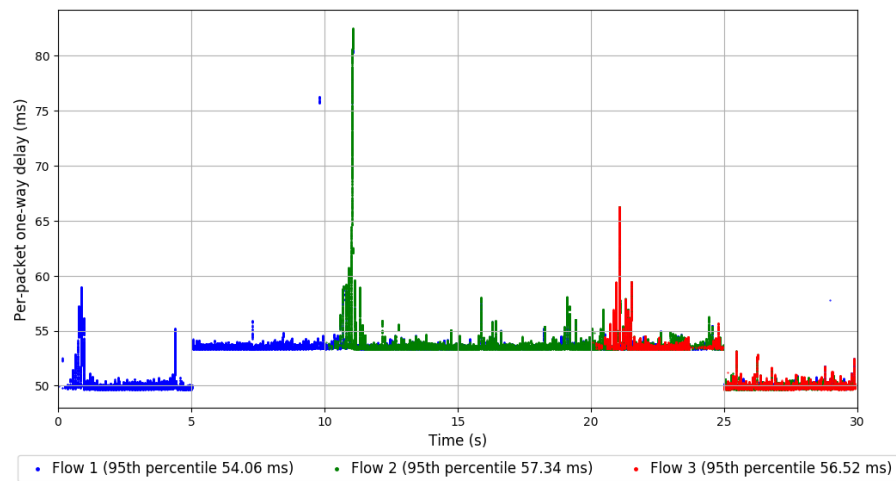
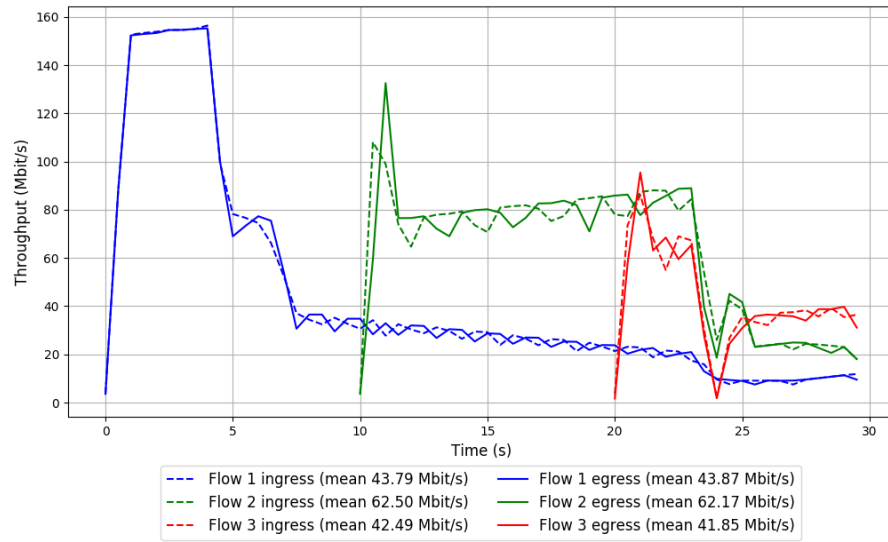
-- Flow 3:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 56.517 ms

Loss rate: 2.35%

Run 7: Report of TCP Vegas — Data Link

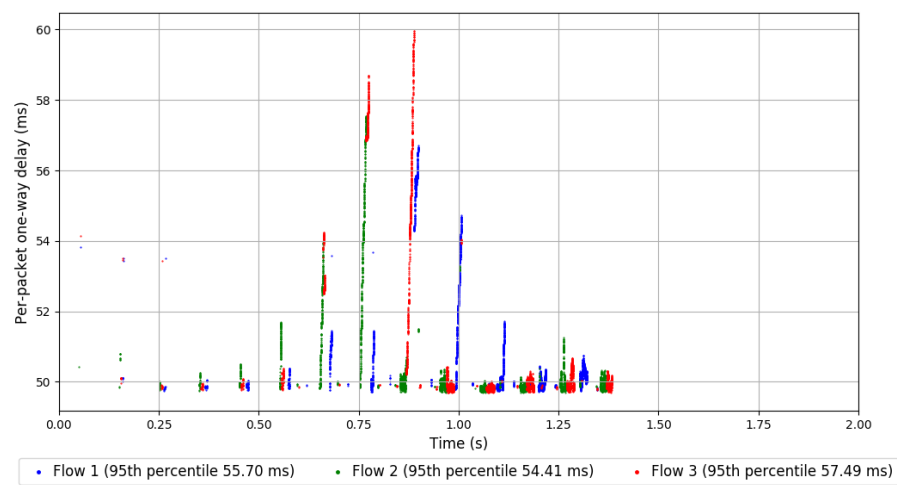
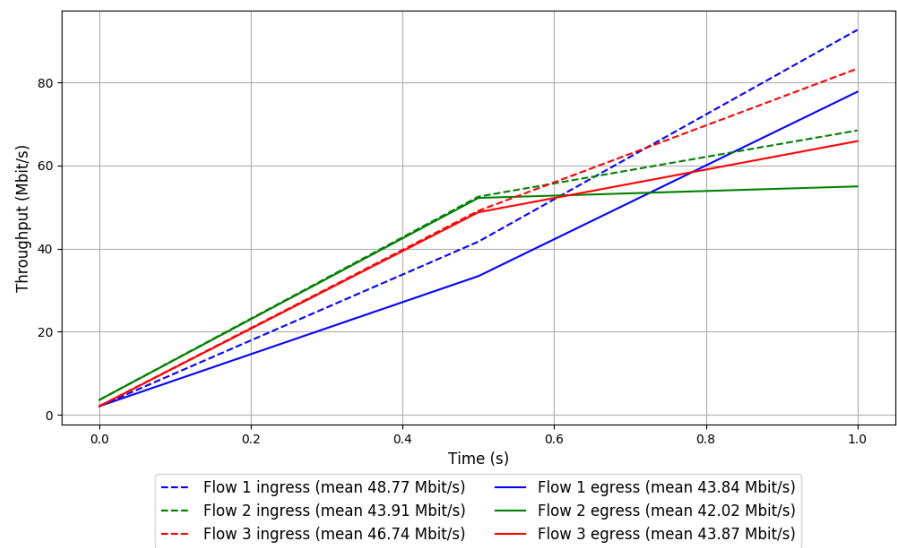


Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 17:53:07

End at: 2018-01-26 17:53:37

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 18:06:55

End at: 2018-01-26 18:07:25

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 52.327 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 13.78 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 40.19 Mbit/s

95th percentile per-packet one-way delay: 51.668 ms

Loss rate: 0.38%

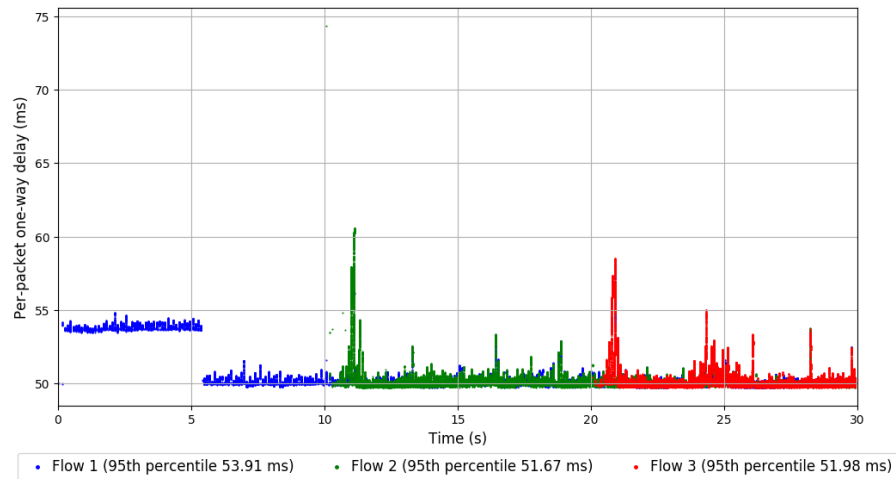
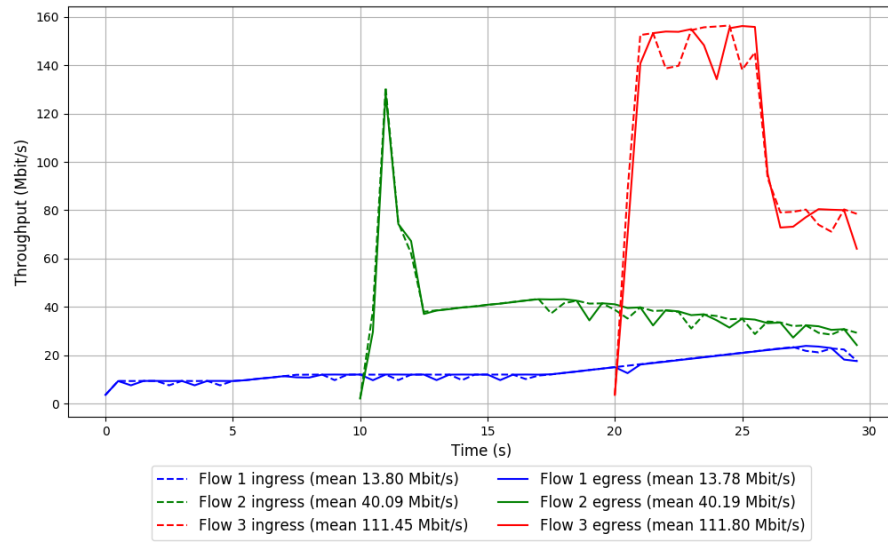
-- Flow 3:

Average throughput: 111.80 Mbit/s

95th percentile per-packet one-way delay: 51.980 ms

Loss rate: 0.68%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 18:20:45

End at: 2018-01-26 18:21:15

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 54.711 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 65.25 Mbit/s

95th percentile per-packet one-way delay: 54.356 ms

Loss rate: 0.23%

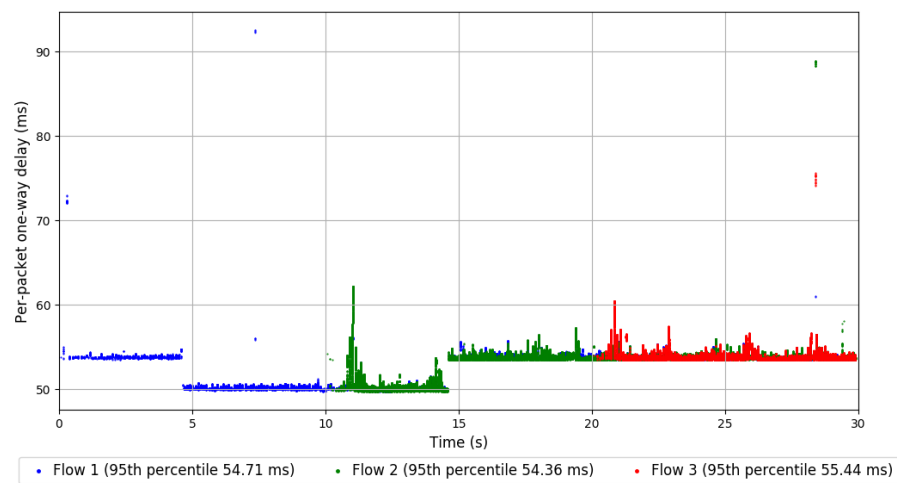
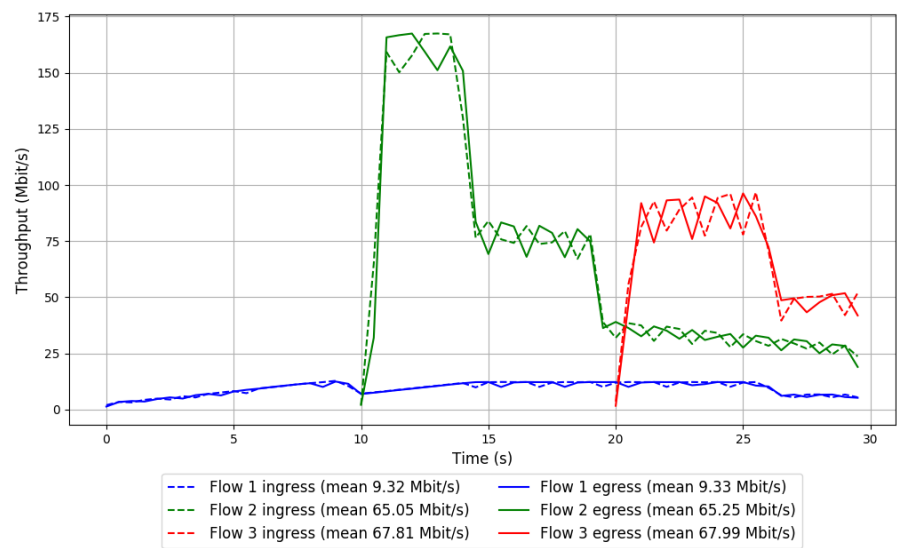
-- Flow 3:

Average throughput: 67.99 Mbit/s

95th percentile per-packet one-way delay: 55.435 ms

Loss rate: 0.79%

Run 10: Report of TCP Vegas — Data Link

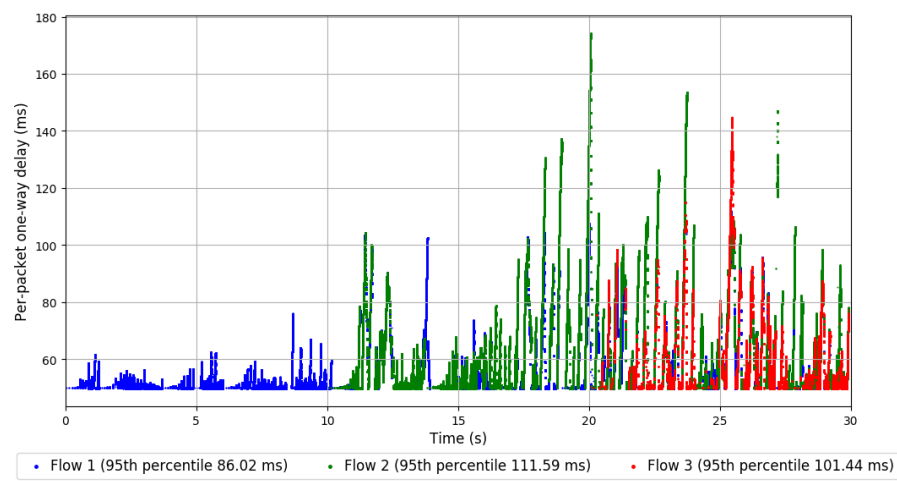
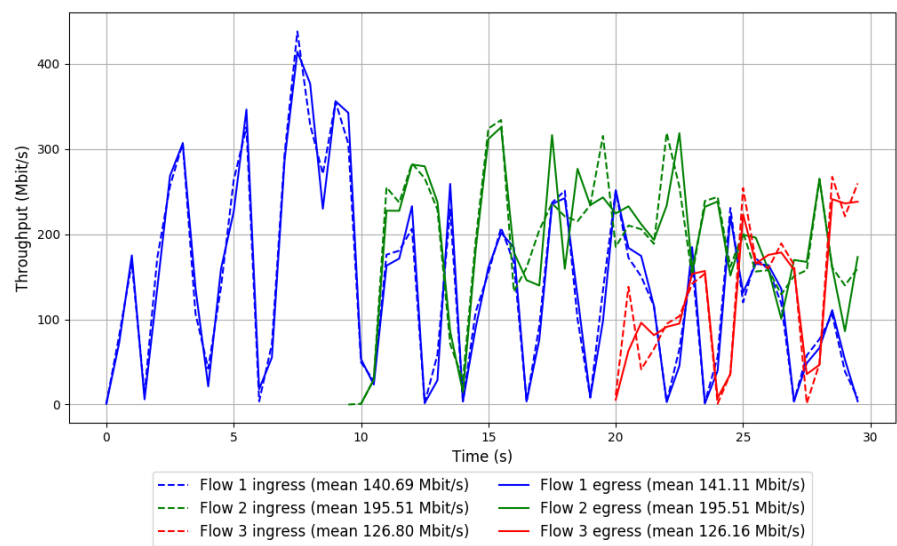


```
Run 1: Statistics of Verus

Start at: 2018-01-26 16:11:44
End at: 2018-01-26 16:12:14

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.29 Mbit/s
95th percentile per-packet one-way delay: 98.576 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 141.11 Mbit/s
95th percentile per-packet one-way delay: 86.017 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 195.51 Mbit/s
95th percentile per-packet one-way delay: 111.588 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 126.16 Mbit/s
95th percentile per-packet one-way delay: 101.436 ms
Loss rate: 1.35%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 16:26:08

End at: 2018-01-26 16:26:38

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.34 Mbit/s

95th percentile per-packet one-way delay: 185.393 ms

Loss rate: 6.49%

-- Flow 1:

Average throughput: 222.40 Mbit/s

95th percentile per-packet one-way delay: 161.825 ms

Loss rate: 4.76%

-- Flow 2:

Average throughput: 202.23 Mbit/s

95th percentile per-packet one-way delay: 210.436 ms

Loss rate: 7.21%

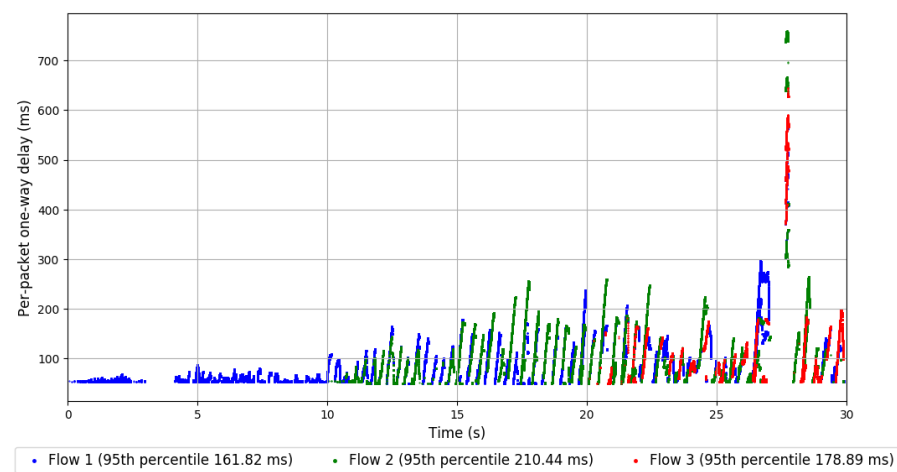
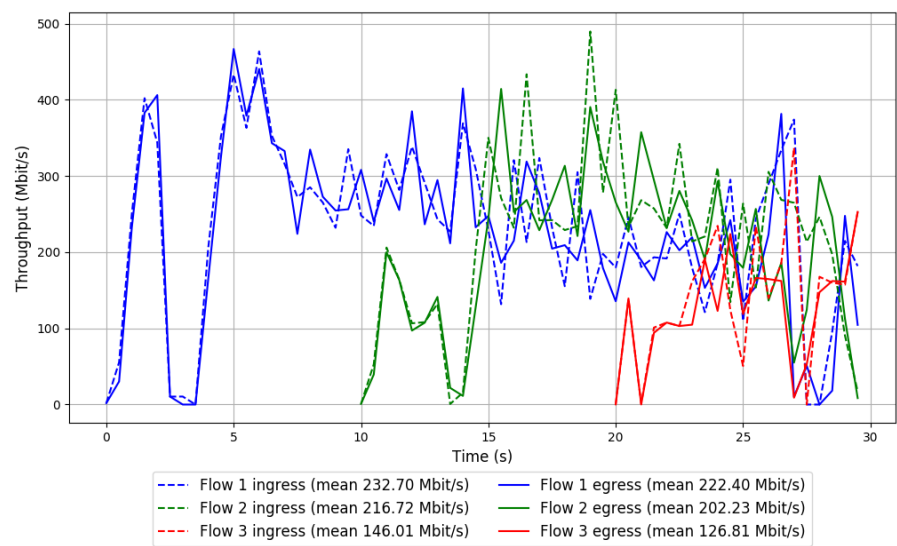
-- Flow 3:

Average throughput: 126.81 Mbit/s

95th percentile per-packet one-way delay: 178.888 ms

Loss rate: 12.80%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 16:40:21

End at: 2018-01-26 16:40:51

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.62 Mbit/s

95th percentile per-packet one-way delay: 148.009 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 215.81 Mbit/s

95th percentile per-packet one-way delay: 157.090 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 193.05 Mbit/s

95th percentile per-packet one-way delay: 134.976 ms

Loss rate: 1.14%

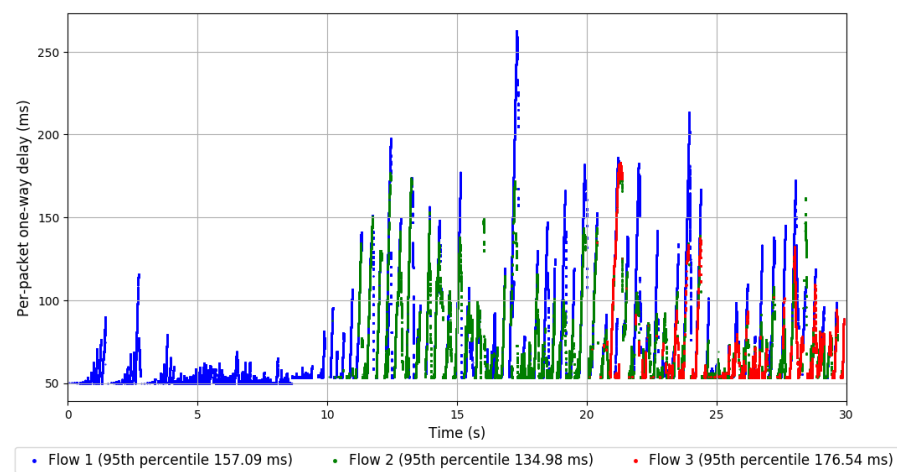
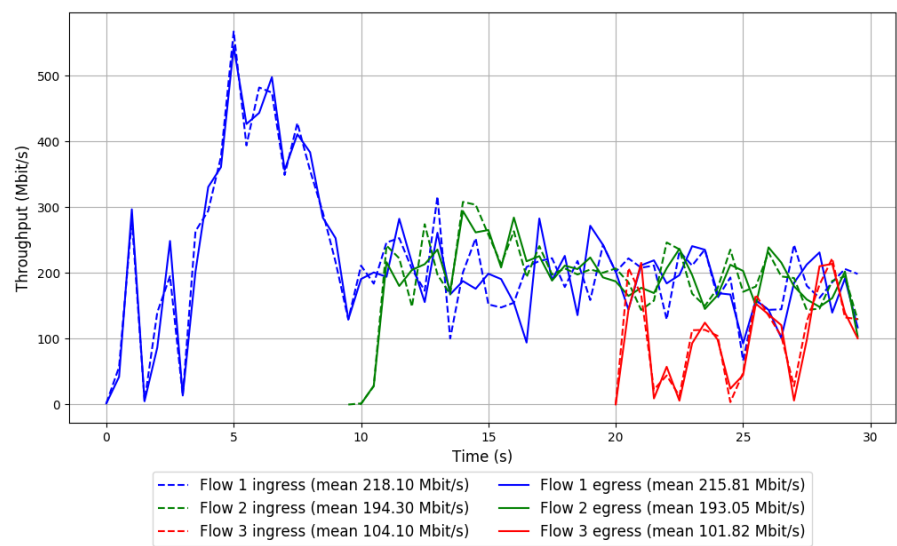
-- Flow 3:

Average throughput: 101.82 Mbit/s

95th percentile per-packet one-way delay: 176.539 ms

Loss rate: 3.26%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 16:54:31

End at: 2018-01-26 16:55:01

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.00 Mbit/s

95th percentile per-packet one-way delay: 105.330 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 198.03 Mbit/s

95th percentile per-packet one-way delay: 103.451 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 177.69 Mbit/s

95th percentile per-packet one-way delay: 106.920 ms

Loss rate: 0.52%

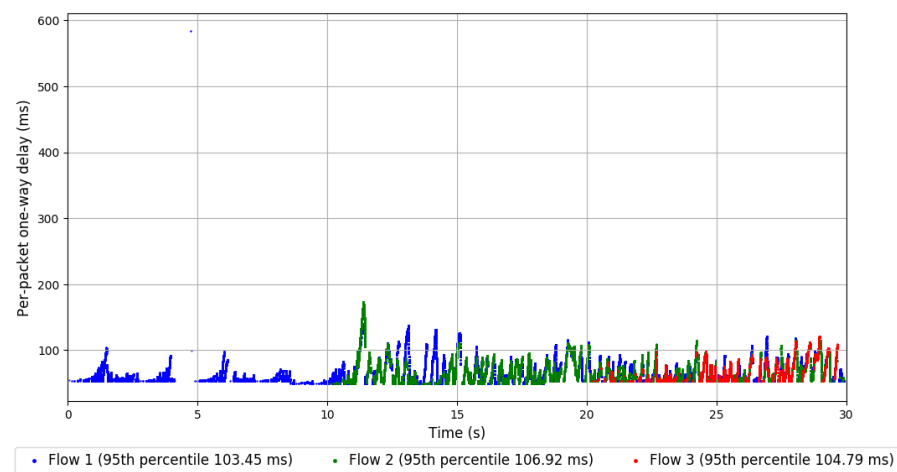
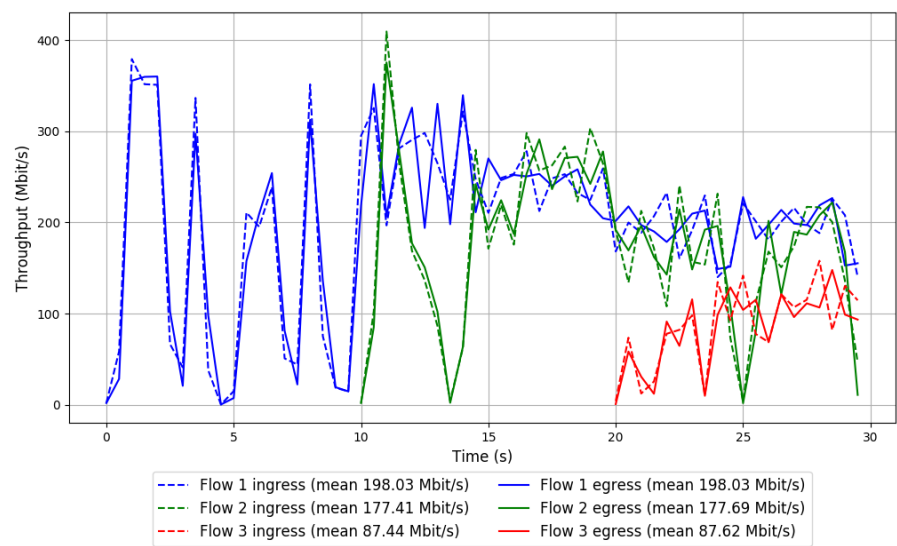
-- Flow 3:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 104.794 ms

Loss rate: 3.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-26 17:08:34

End at: 2018-01-26 17:09:04

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.97 Mbit/s

95th percentile per-packet one-way delay: 127.138 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 212.99 Mbit/s

95th percentile per-packet one-way delay: 122.867 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 133.69 Mbit/s

95th percentile per-packet one-way delay: 126.691 ms

Loss rate: 1.35%

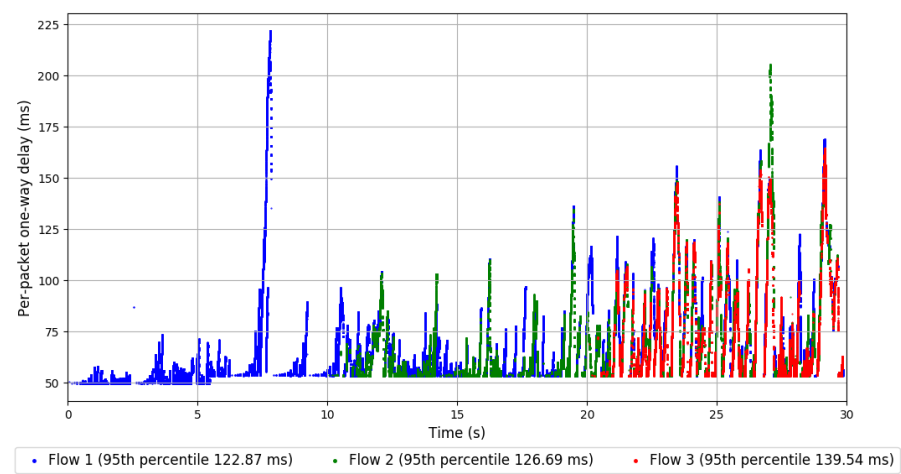
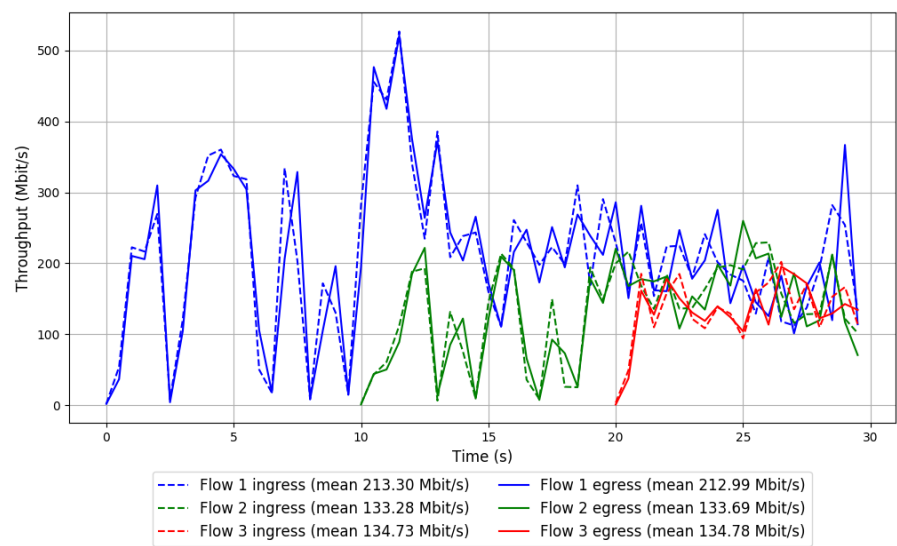
-- Flow 3:

Average throughput: 134.78 Mbit/s

95th percentile per-packet one-way delay: 139.545 ms

Loss rate: 1.27%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 17:22:26

End at: 2018-01-26 17:22:56

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.68 Mbit/s

95th percentile per-packet one-way delay: 80.095 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 127.33 Mbit/s

95th percentile per-packet one-way delay: 78.341 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 125.66 Mbit/s

95th percentile per-packet one-way delay: 74.728 ms

Loss rate: 0.01%

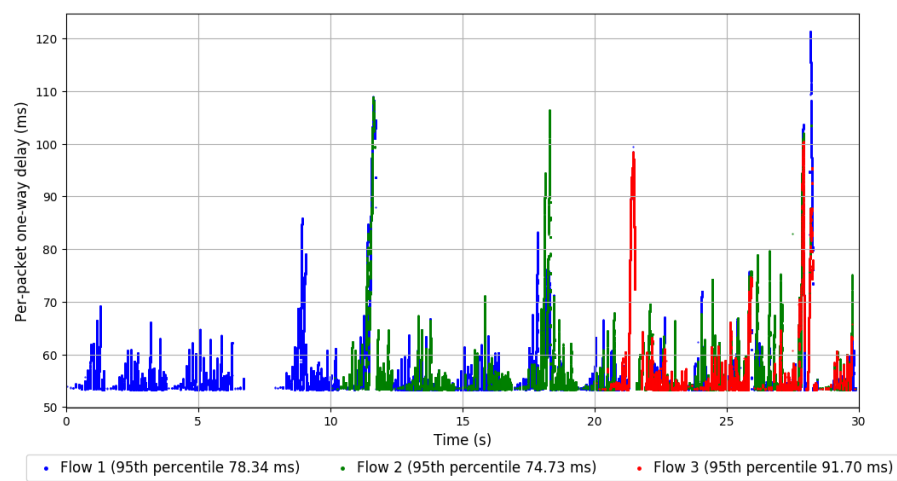
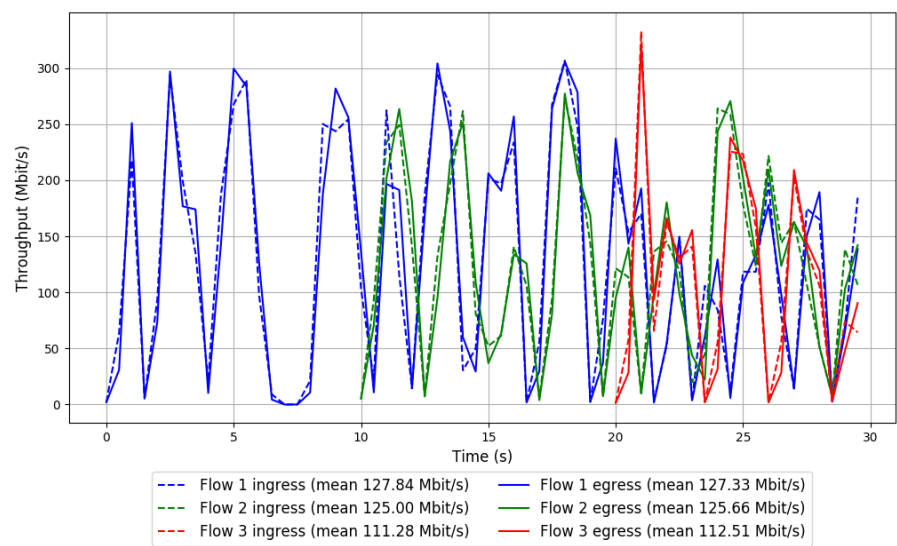
-- Flow 3:

Average throughput: 112.51 Mbit/s

95th percentile per-packet one-way delay: 91.696 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 17:36:22

End at: 2018-01-26 17:36:52

Below is generated by plot.py at 2018-01-26 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.92 Mbit/s

95th percentile per-packet one-way delay: 120.148 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 202.11 Mbit/s

95th percentile per-packet one-way delay: 122.705 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 116.50 Mbit/s

95th percentile per-packet one-way delay: 102.956 ms

Loss rate: 0.04%

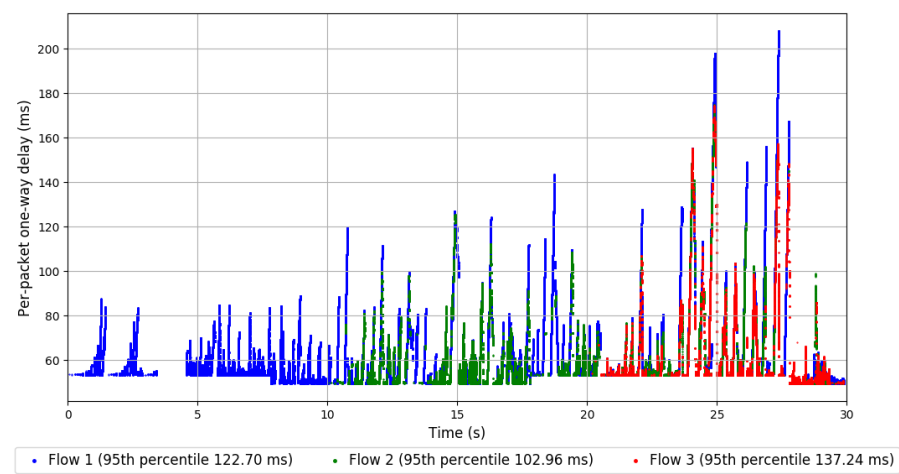
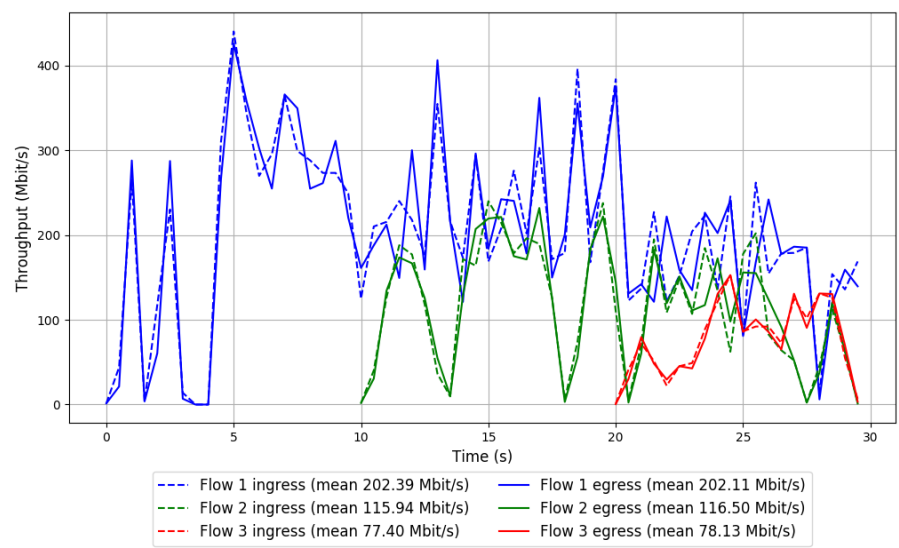
-- Flow 3:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 137.242 ms

Loss rate: 0.25%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 17:50:32

End at: 2018-01-26 17:51:02

Below is generated by plot.py at 2018-01-26 21:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.08 Mbit/s

95th percentile per-packet one-way delay: 173.205 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 258.07 Mbit/s

95th percentile per-packet one-way delay: 183.194 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 120.532 ms

Loss rate: 0.71%

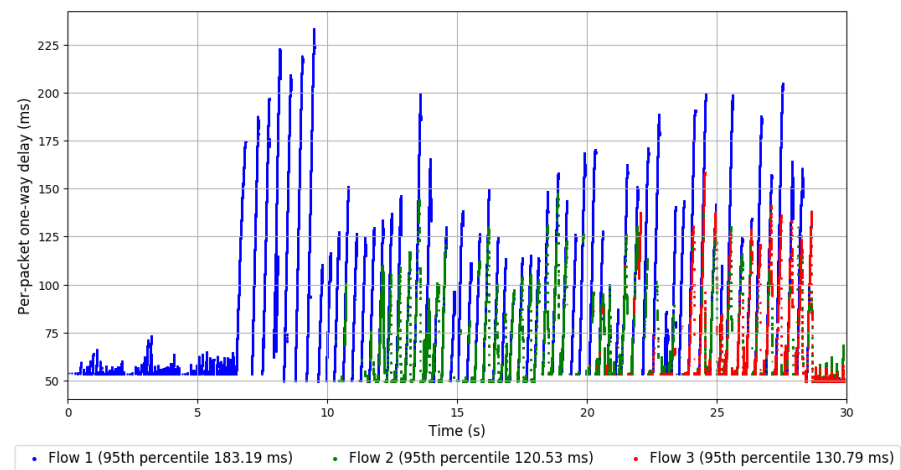
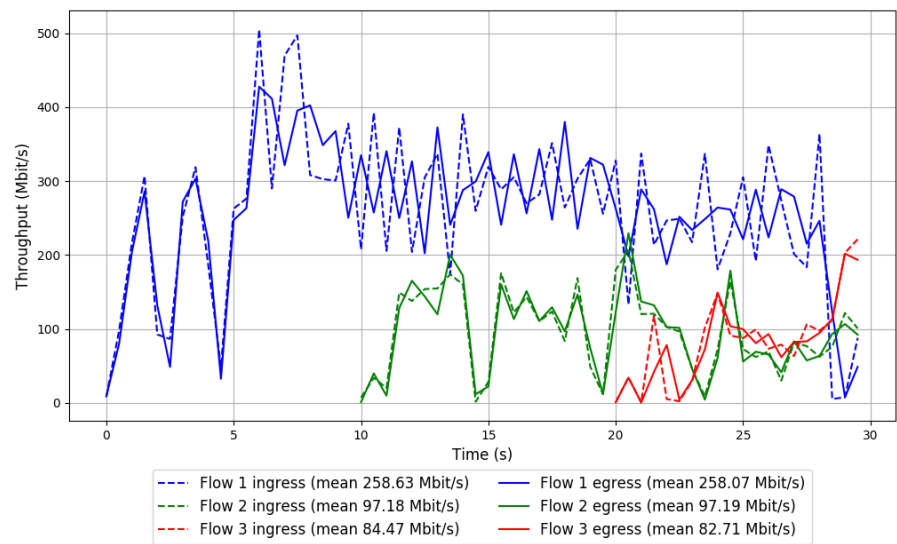
-- Flow 3:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 130.788 ms

Loss rate: 3.17%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 18:04:18

End at: 2018-01-26 18:04:48

Below is generated by plot.py at 2018-01-26 21:49:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.06 Mbit/s

95th percentile per-packet one-way delay: 124.190 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 230.46 Mbit/s

95th percentile per-packet one-way delay: 120.498 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 115.39 Mbit/s

95th percentile per-packet one-way delay: 123.974 ms

Loss rate: 2.93%

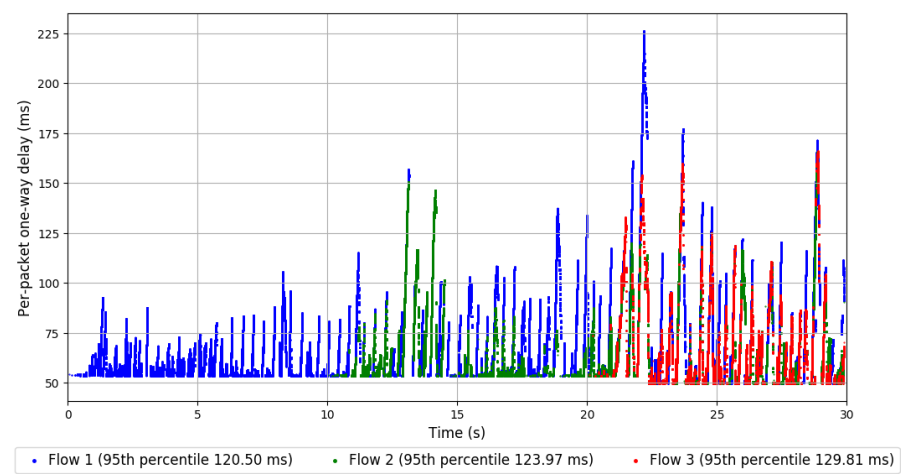
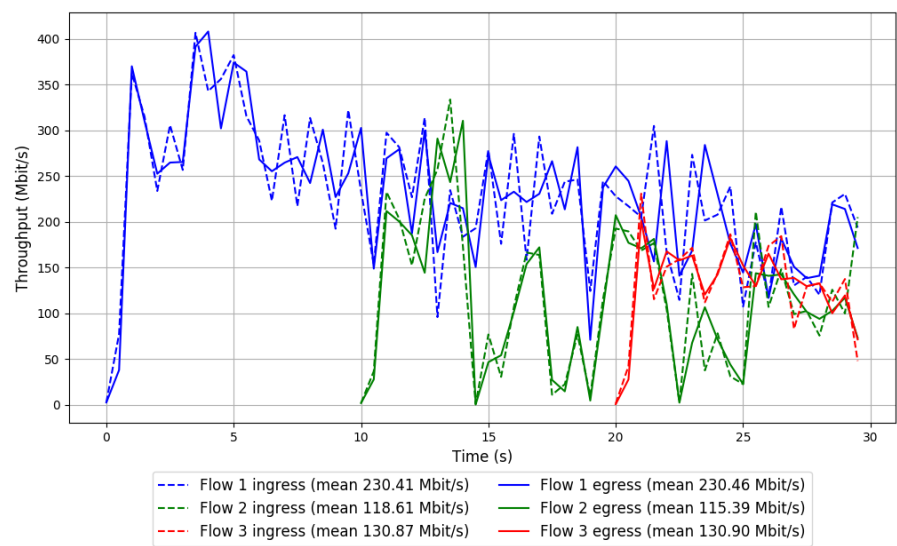
-- Flow 3:

Average throughput: 130.90 Mbit/s

95th percentile per-packet one-way delay: 129.813 ms

Loss rate: 0.28%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 18:18:10

End at: 2018-01-26 18:18:40

Below is generated by plot.py at 2018-01-26 21:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.50 Mbit/s

95th percentile per-packet one-way delay: 84.433 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 163.39 Mbit/s

95th percentile per-packet one-way delay: 78.882 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 186.22 Mbit/s

95th percentile per-packet one-way delay: 90.584 ms

Loss rate: 0.35%

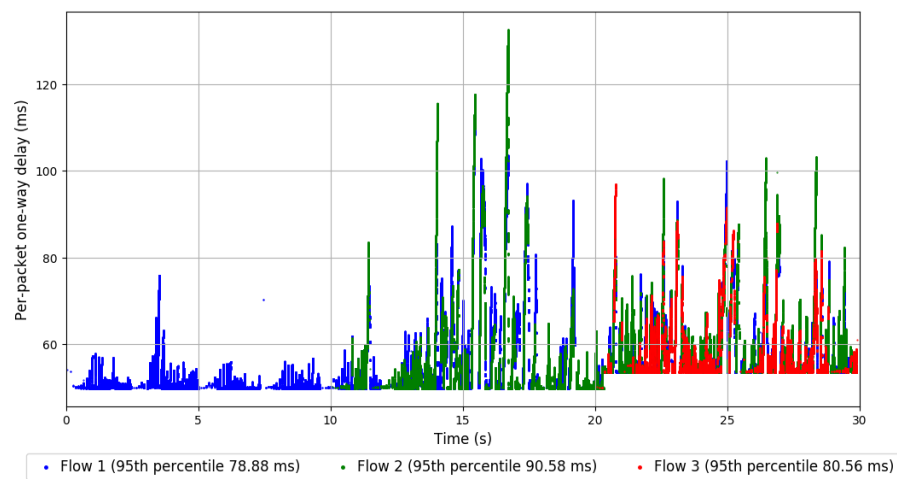
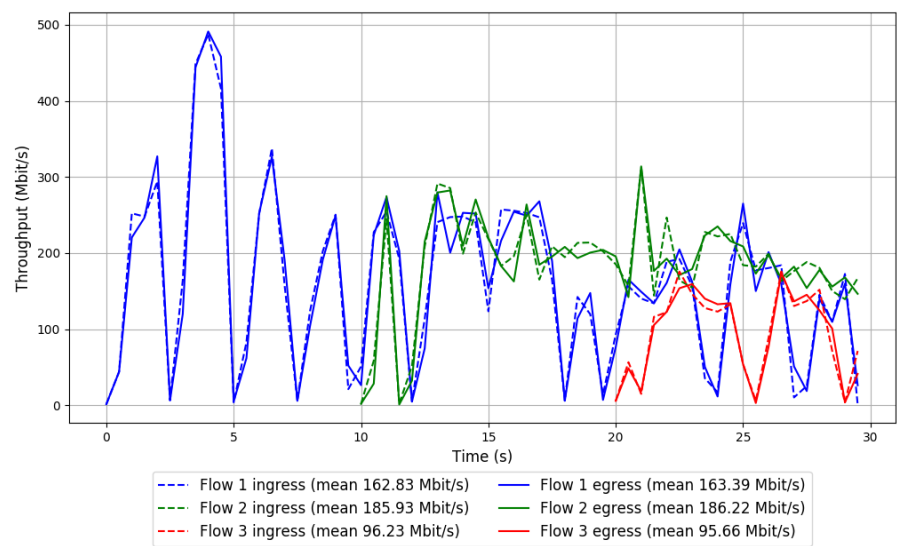
-- Flow 3:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 80.563 ms

Loss rate: 1.59%

Run 10: Report of Verus — Data Link

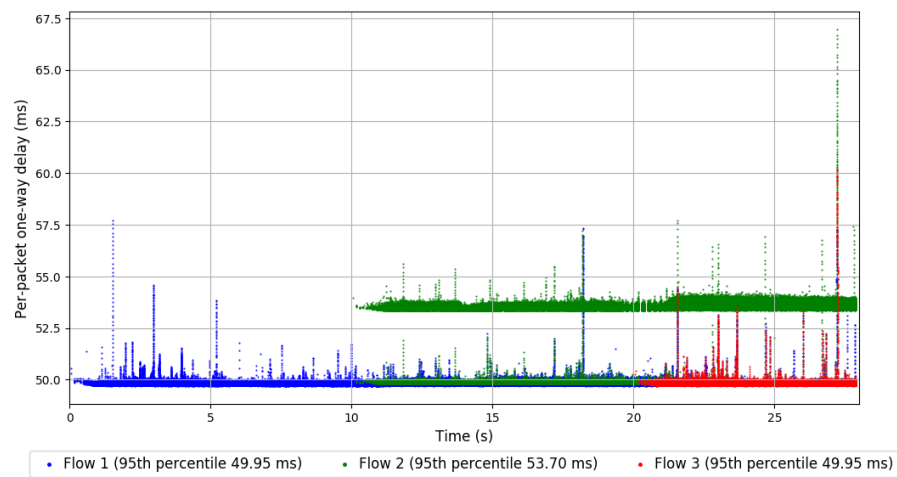
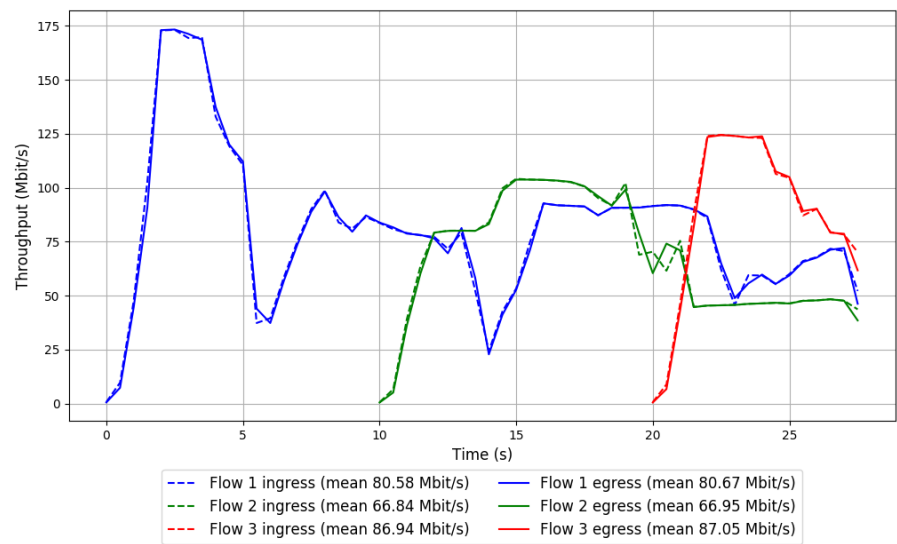


```
Run 1: Statistics of Copa

Start at: 2018-01-26 16:13:25
End at: 2018-01-26 16:13:55

# Below is generated by plot.py at 2018-01-26 21:49:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.03 Mbit/s
95th percentile per-packet one-way delay: 53.553 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 49.953 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 66.95 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 87.05 Mbit/s
95th percentile per-packet one-way delay: 49.946 ms
Loss rate: 1.19%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 16:27:56

End at: 2018-01-26 16:28:26

Below is generated by plot.py at 2018-01-26 21:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.76 Mbit/s

95th percentile per-packet one-way delay: 53.620 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 82.06 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.43%

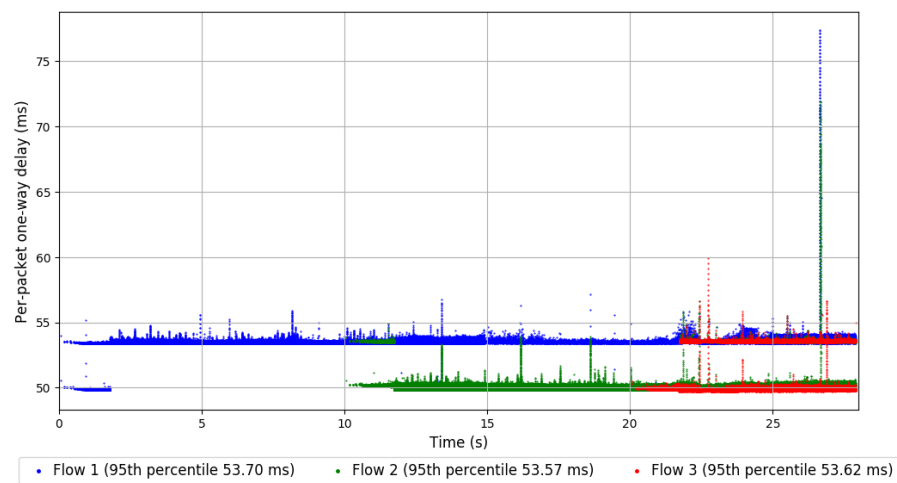
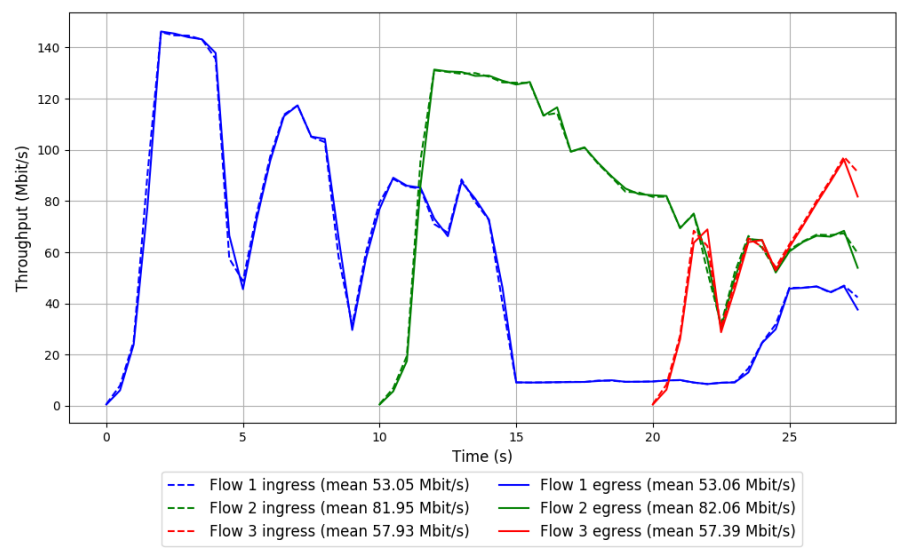
-- Flow 3:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 53.620 ms

Loss rate: 2.22%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 16:42:07

End at: 2018-01-26 16:42:37

Below is generated by plot.py at 2018-01-26 21:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.64 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 62.72 Mbit/s

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

Loss rate: 0.30%

-- Flow 2:

Average throughput: 51.24 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.35%

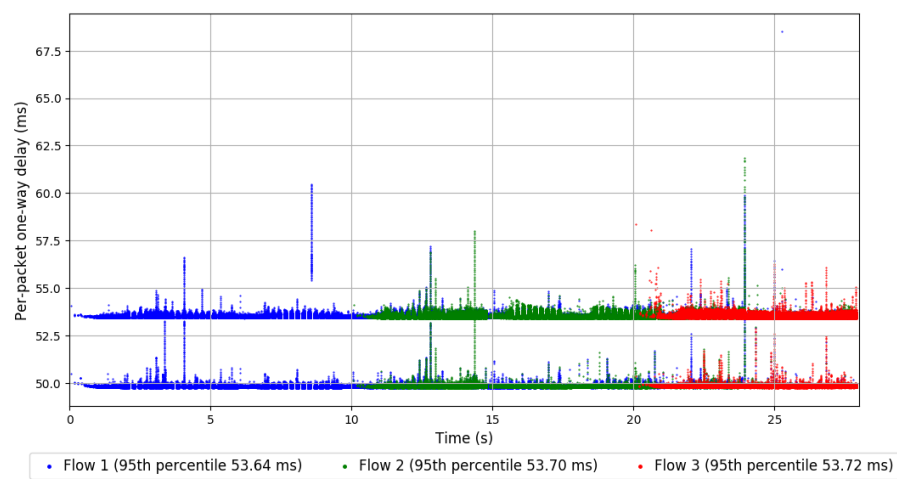
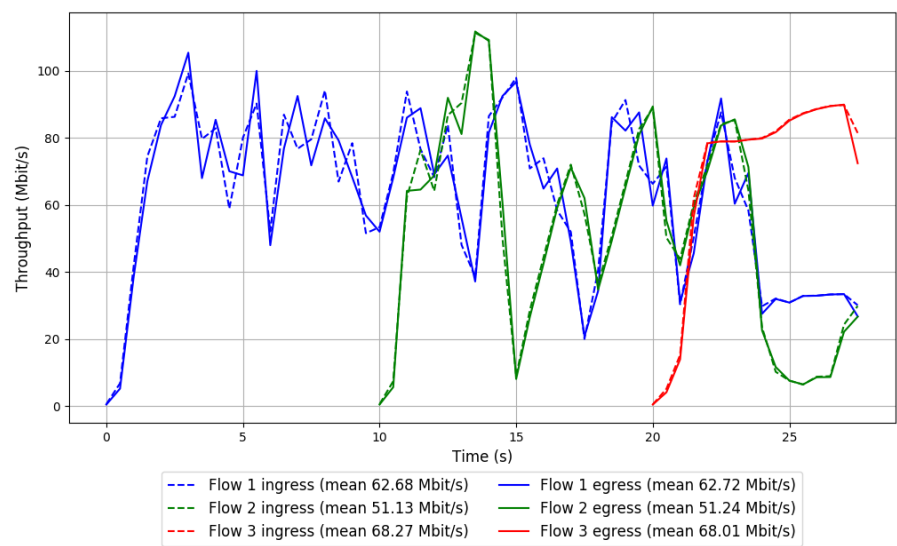
-- Flow 3:

Average throughput: 68.01 Mbit/s

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

Loss rate: 1.65%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 16:56:15

End at: 2018-01-26 16:56:45

Below is generated by plot.py at 2018-01-26 21:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.97 Mbit/s

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

Loss rate: 0.48%

-- Flow 1:

Average throughput: 89.94 Mbit/s

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

Loss rate: 0.40%

-- Flow 2:

Average throughput: 80.33 Mbit/s

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

Loss rate: 0.24%

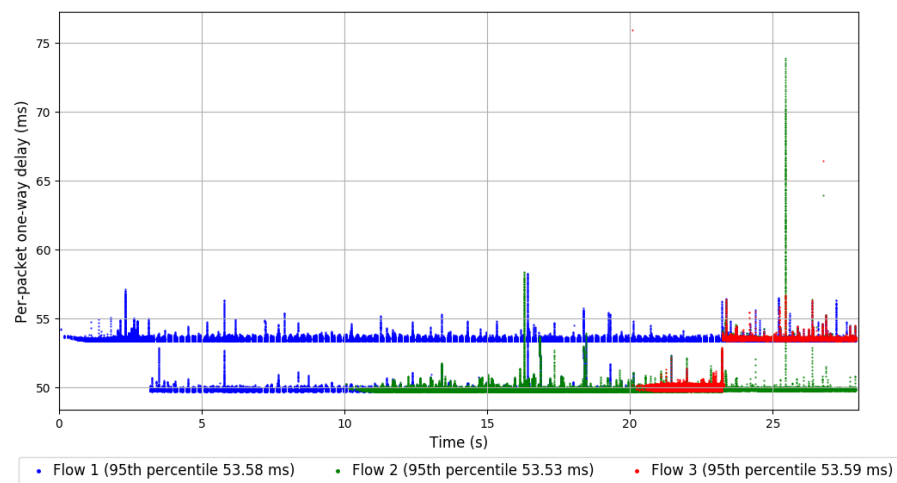
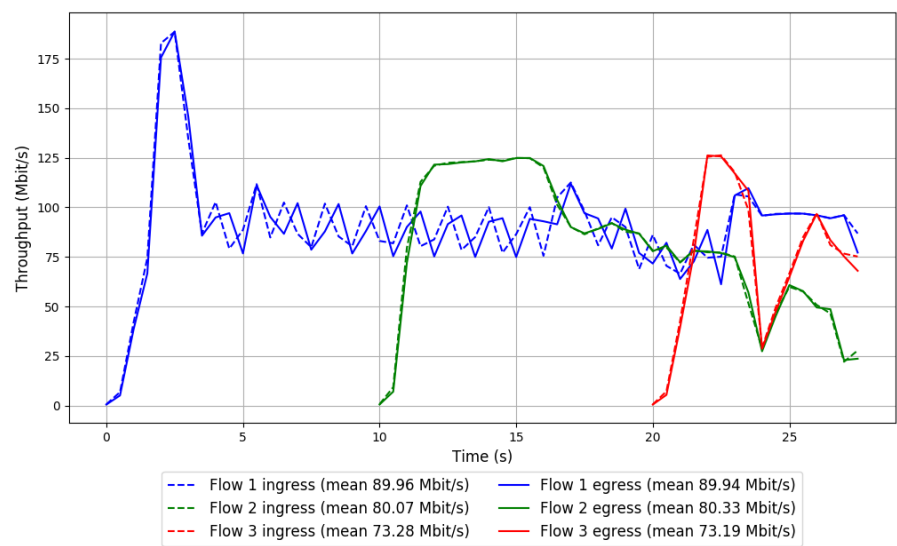
-- Flow 3:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 1.39%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 17:10:18

End at: 2018-01-26 17:10:48

Below is generated by plot.py at 2018-01-26 21:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.01 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 78.37 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 80.91 Mbit/s

95th percentile per-packet one-way delay: 50.088 ms

Loss rate: 0.76%

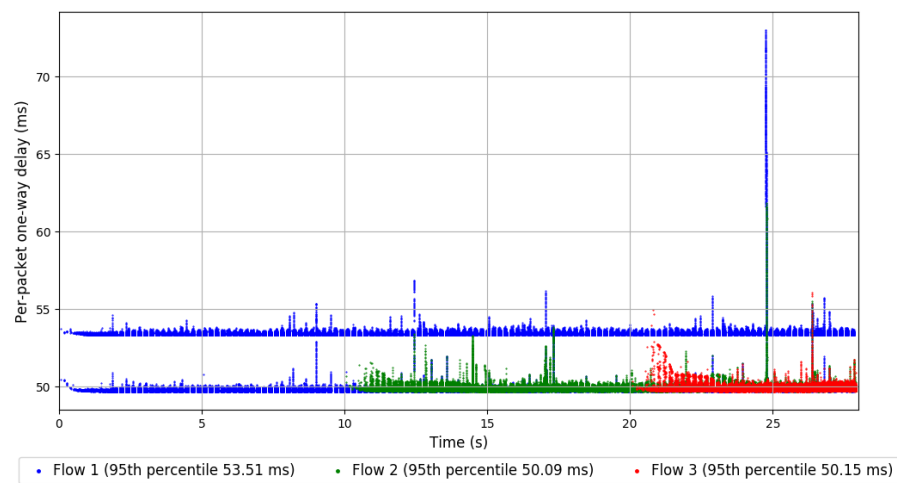
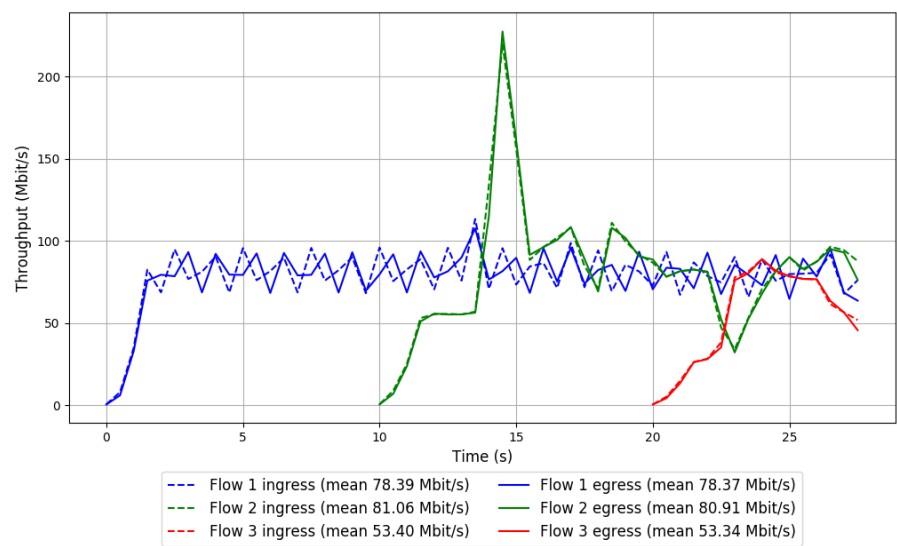
-- Flow 3:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 50.149 ms

Loss rate: 1.40%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 17:24:03

End at: 2018-01-26 17:24:33

Below is generated by plot.py at 2018-01-26 21:51:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.38 Mbit/s

95th percentile per-packet one-way delay: 53.538 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 53.454 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.57%

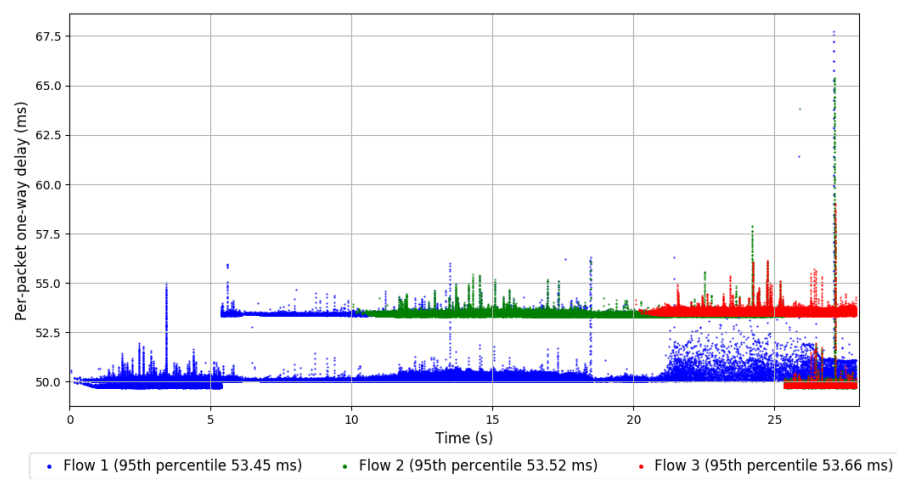
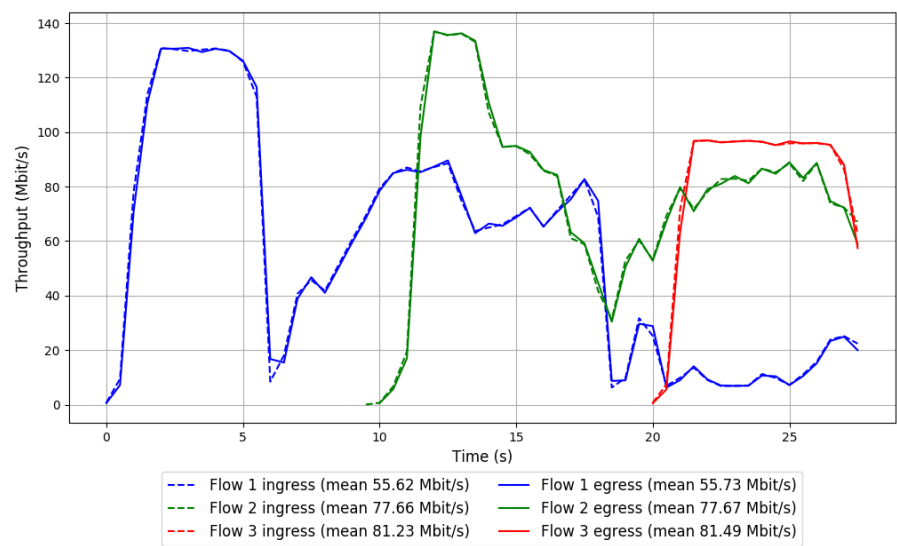
-- Flow 3:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: 53.658 ms

Loss rate: 1.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 17:38:03

End at: 2018-01-26 17:38:33

Below is generated by plot.py at 2018-01-26 21:51:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.69 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 69.09 Mbit/s

95th percentile per-packet one-way delay: 50.453 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.74%

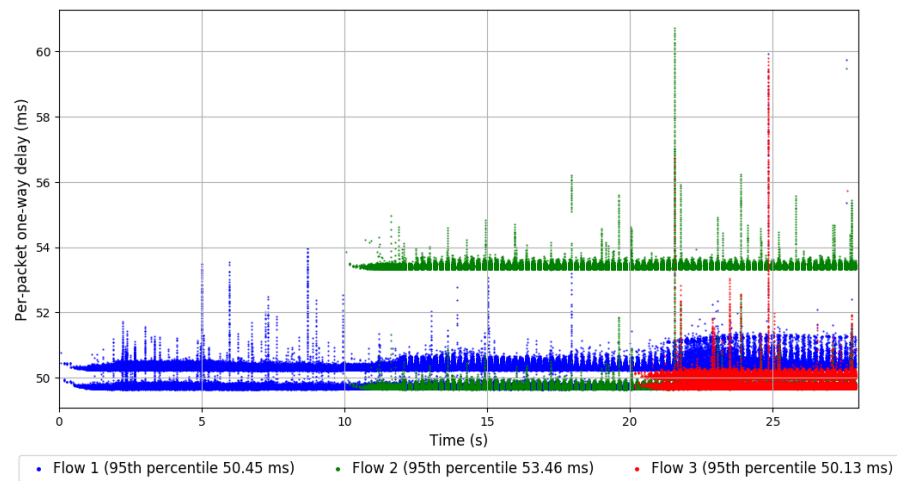
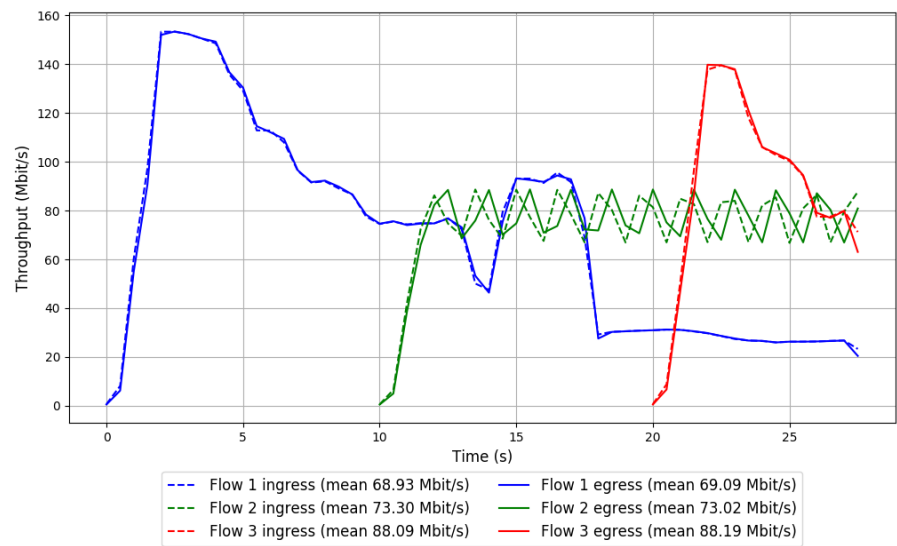
-- Flow 3:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 50.132 ms

Loss rate: 1.16%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 17:52:15

End at: 2018-01-26 17:52:45

Below is generated by plot.py at 2018-01-26 21:52:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.39 Mbit/s

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

Loss rate: 0.71%

-- Flow 1:

Average throughput: 75.56 Mbit/s

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

Loss rate: 0.57%

-- Flow 2:

Average throughput: 81.24 Mbit/s

95th percentile per-packet one-way delay: 53.608 ms

Loss rate: 0.49%

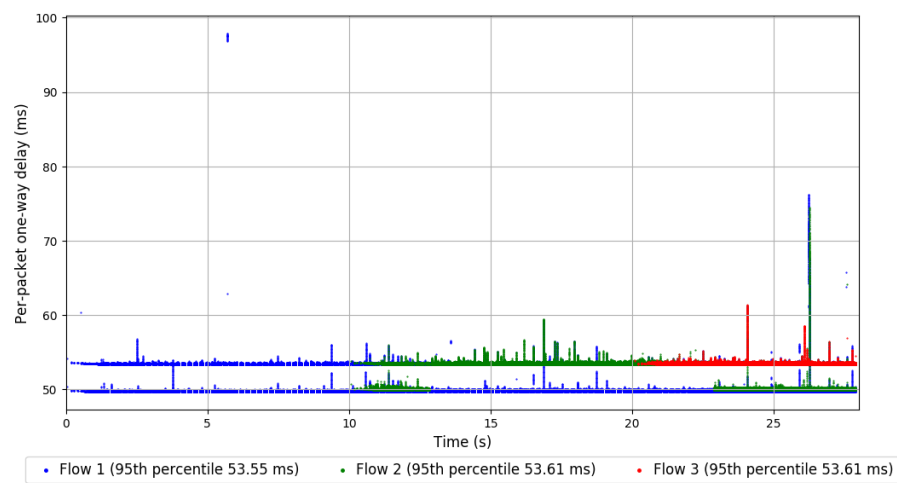
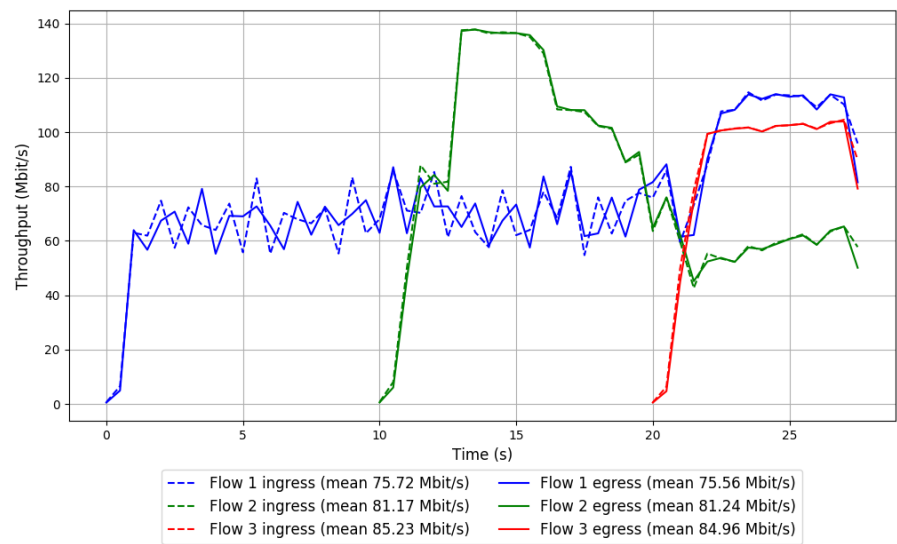
-- Flow 3:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 53.606 ms

Loss rate: 1.62%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 18:06:02

End at: 2018-01-26 18:06:32

Below is generated by plot.py at 2018-01-26 21:52:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.01 Mbit/s

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

Loss rate: 0.45%

-- Flow 1:

Average throughput: 79.87 Mbit/s

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

Loss rate: 0.24%

-- Flow 2:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.36%

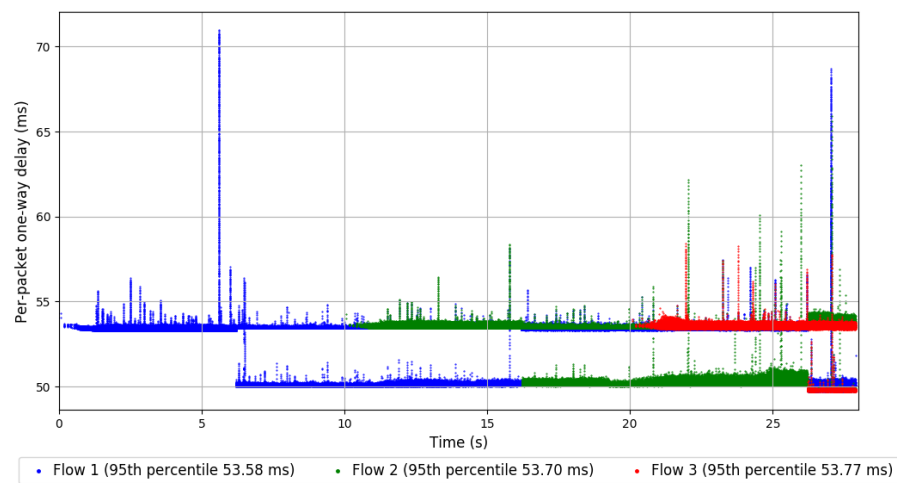
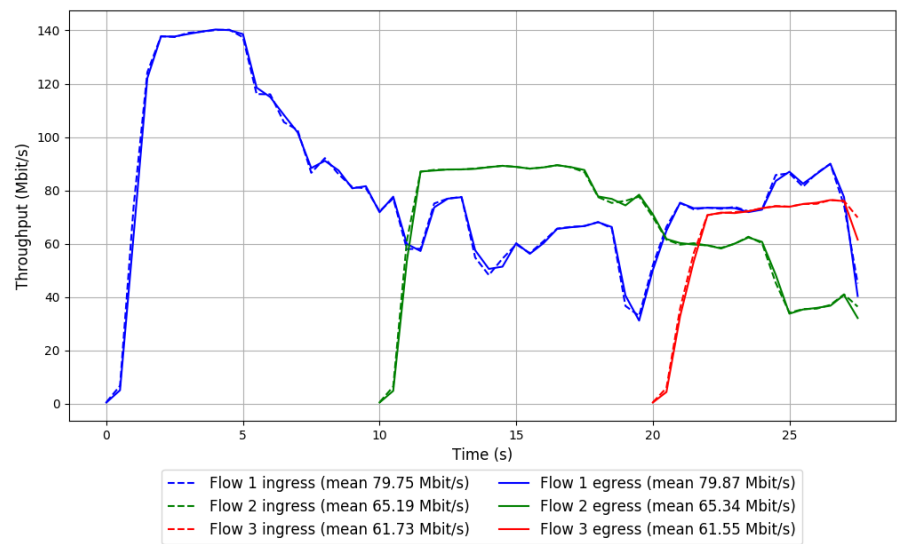
-- Flow 3:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 53.765 ms

Loss rate: 1.64%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 18:19:52

End at: 2018-01-26 18:20:22

Below is generated by plot.py at 2018-01-26 21:53:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.76 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 78.06 Mbit/s

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

Loss rate: 0.29%

-- Flow 2:

Average throughput: 74.23 Mbit/s

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

Loss rate: 0.66%

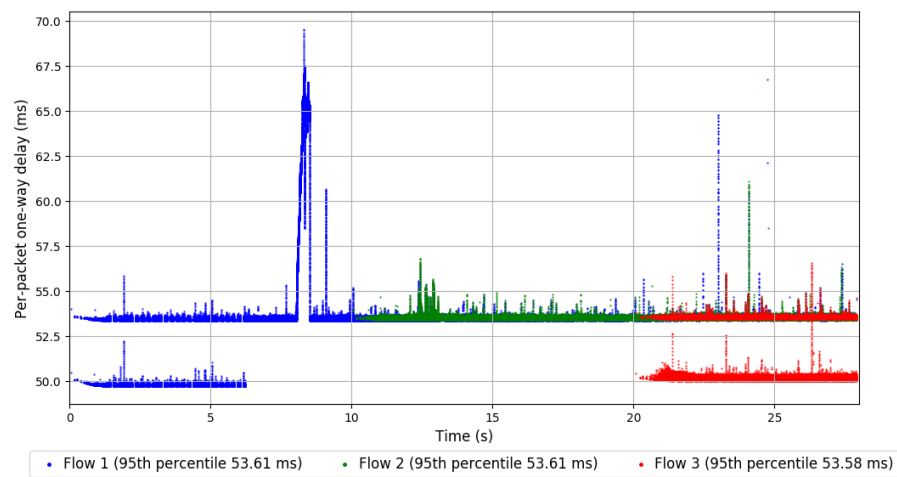
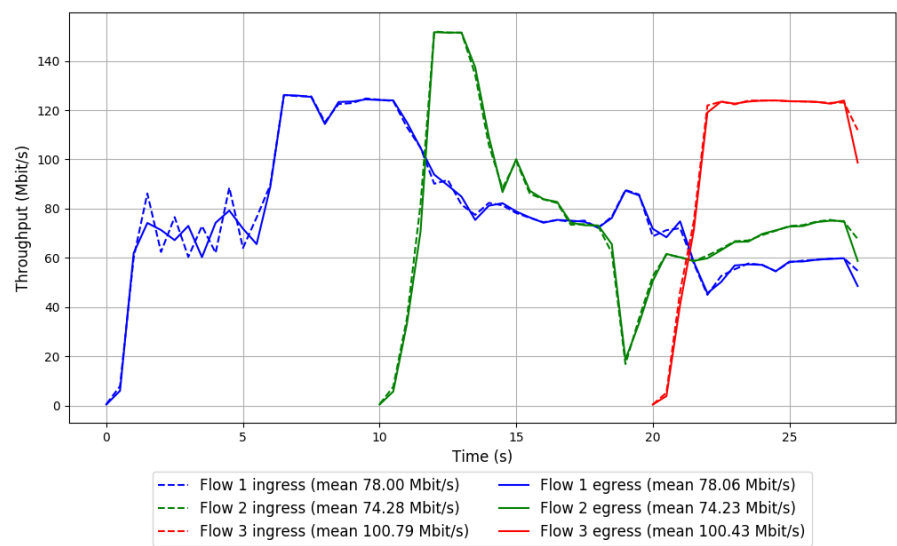
-- Flow 3:

Average throughput: 100.43 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 1.62%

Run 10: Report of Copa — Data Link

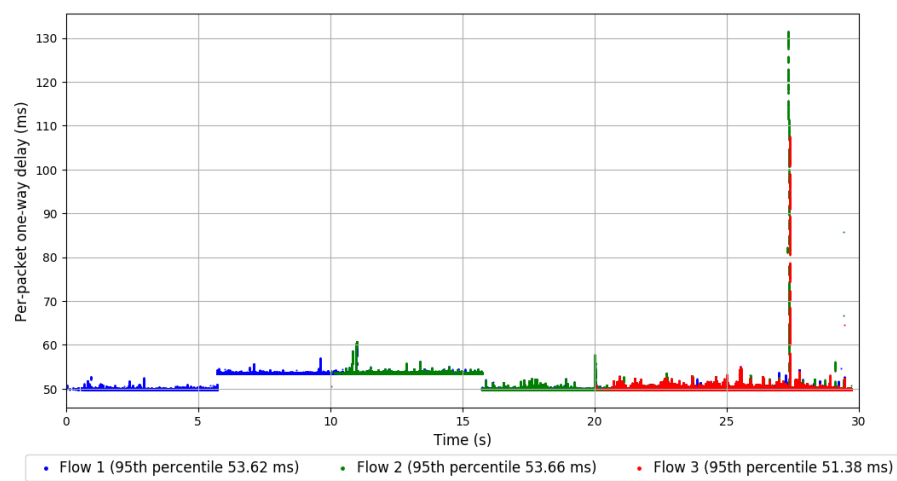
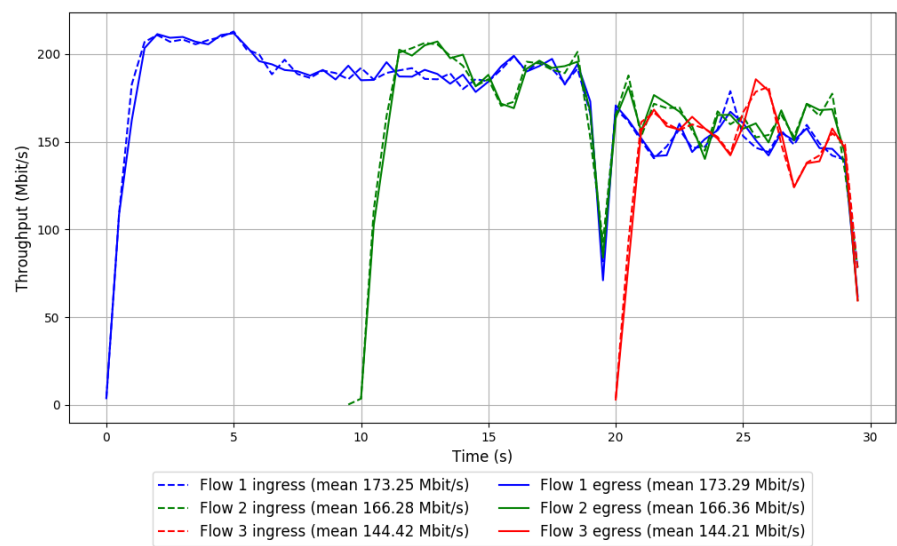


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 16:23:44
End at: 2018-01-26 16:24:14

# Below is generated by plot.py at 2018-01-26 21:54:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.46 Mbit/s
95th percentile per-packet one-way delay: 53.620 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 173.29 Mbit/s
95th percentile per-packet one-way delay: 53.615 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 166.36 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 144.21 Mbit/s
95th percentile per-packet one-way delay: 51.384 ms
Loss rate: 1.18%
```


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

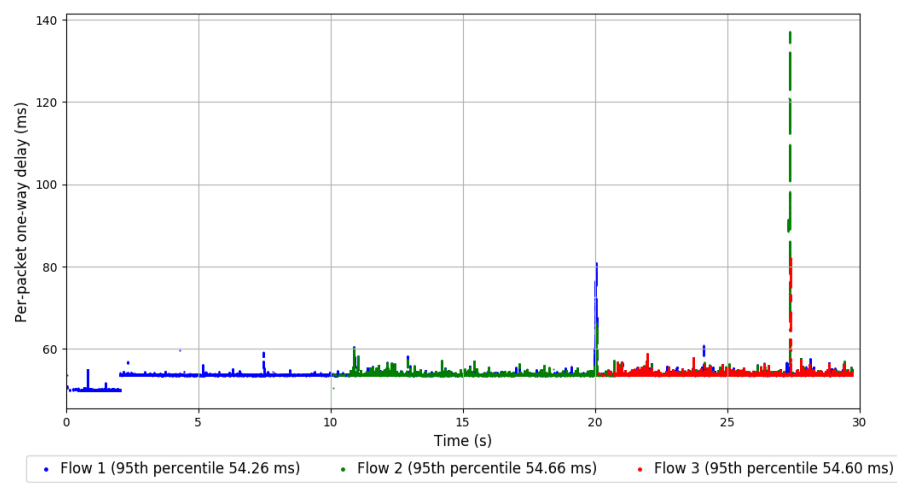
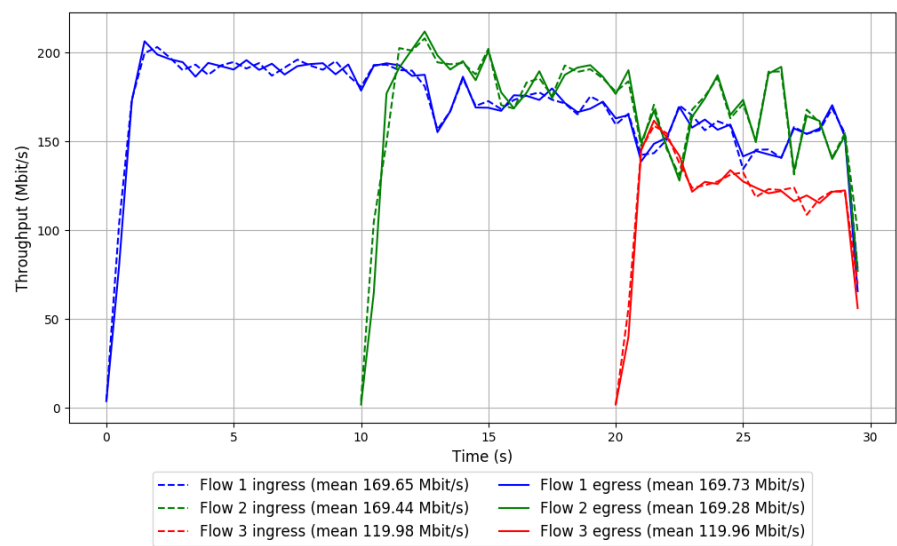


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 16:37:58
End at: 2018-01-26 16:38:28

# Below is generated by plot.py at 2018-01-26 21:54:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.40 Mbit/s
95th percentile per-packet one-way delay: 54.451 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 169.73 Mbit/s
95th percentile per-packet one-way delay: 54.258 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 169.28 Mbit/s
95th percentile per-packet one-way delay: 54.655 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 119.96 Mbit/s
95th percentile per-packet one-way delay: 54.598 ms
Loss rate: 1.11%
```

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



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 16:52:06

End at: 2018-01-26 16:52:36

Below is generated by plot.py at 2018-01-26 21:55:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.02 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 177.12 Mbit/s

95th percentile per-packet one-way delay: 53.541 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 169.04 Mbit/s

95th percentile per-packet one-way delay: 51.548 ms

Loss rate: 0.58%

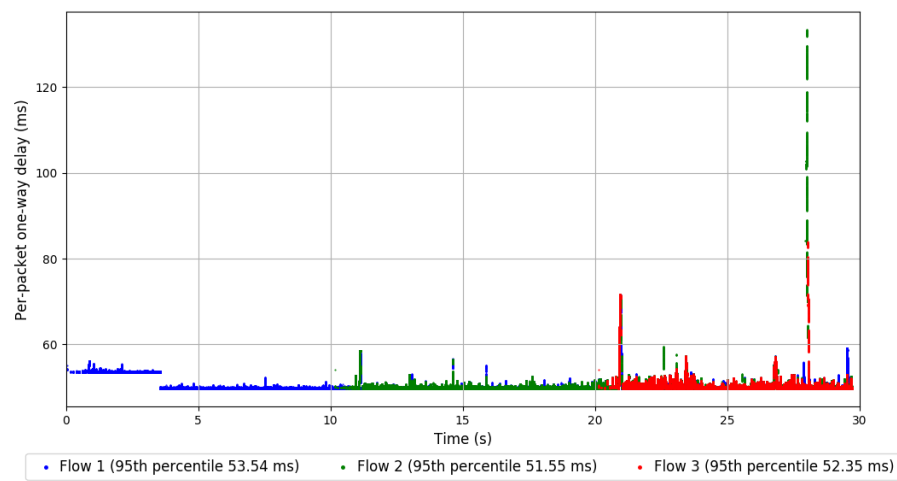
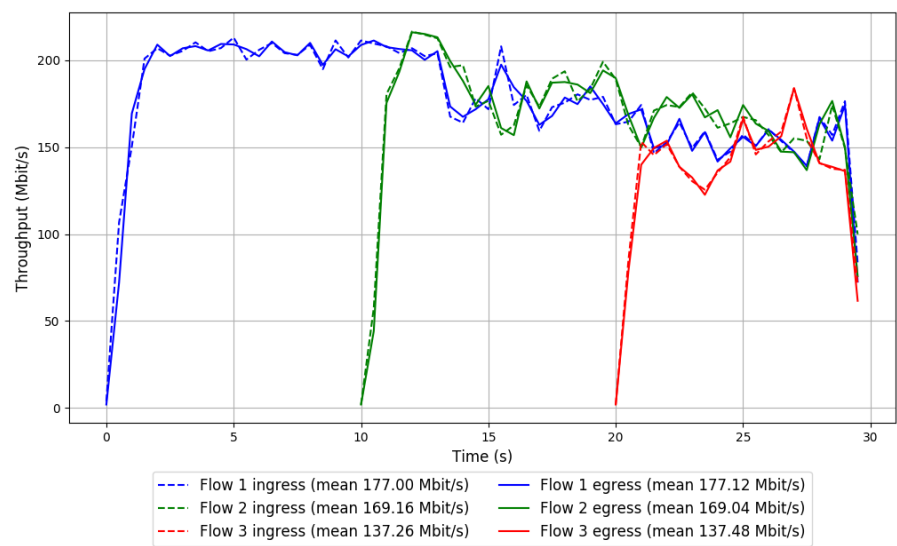
-- Flow 3:

Average throughput: 137.48 Mbit/s

95th percentile per-packet one-way delay: 52.351 ms

Loss rate: 0.90%

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



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 17:06:11

End at: 2018-01-26 17:06:41

Below is generated by plot.py at 2018-01-26 21:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.77 Mbit/s

95th percentile per-packet one-way delay: 53.524 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 175.43 Mbit/s

95th percentile per-packet one-way delay: 52.357 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 160.11 Mbit/s

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

Loss rate: 0.51%

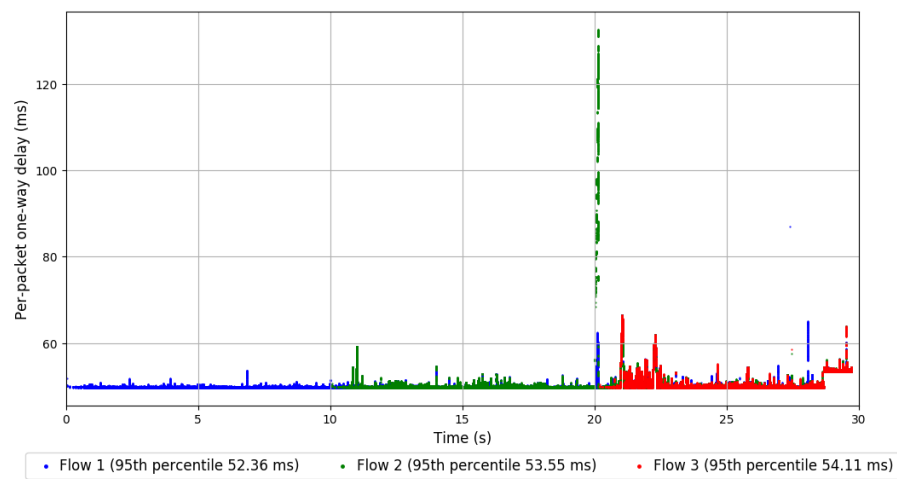
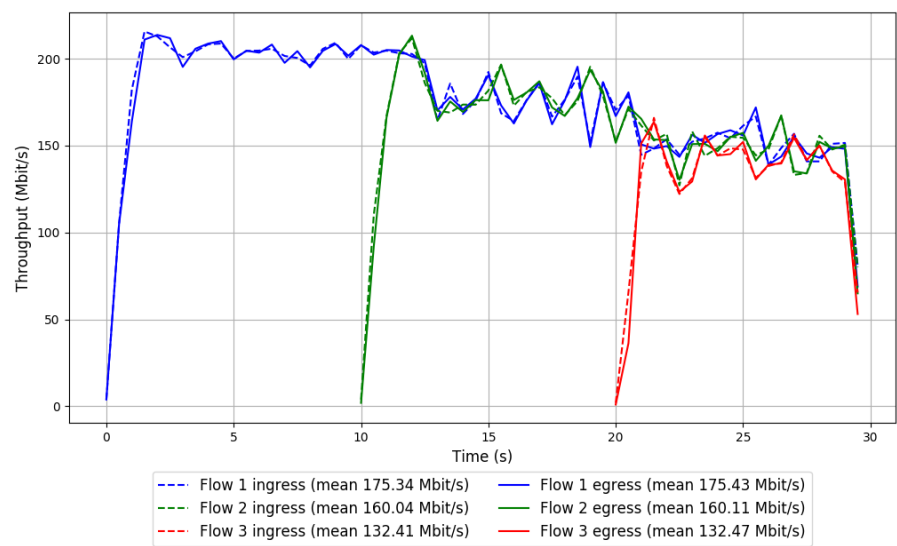
-- Flow 3:

Average throughput: 132.47 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 1.01%

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



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 17:20:04

End at: 2018-01-26 17:20:34

Below is generated by plot.py at 2018-01-26 21:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.26 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 161.88 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 145.14 Mbit/s

95th percentile per-packet one-way delay: 53.599 ms

Loss rate: 0.42%

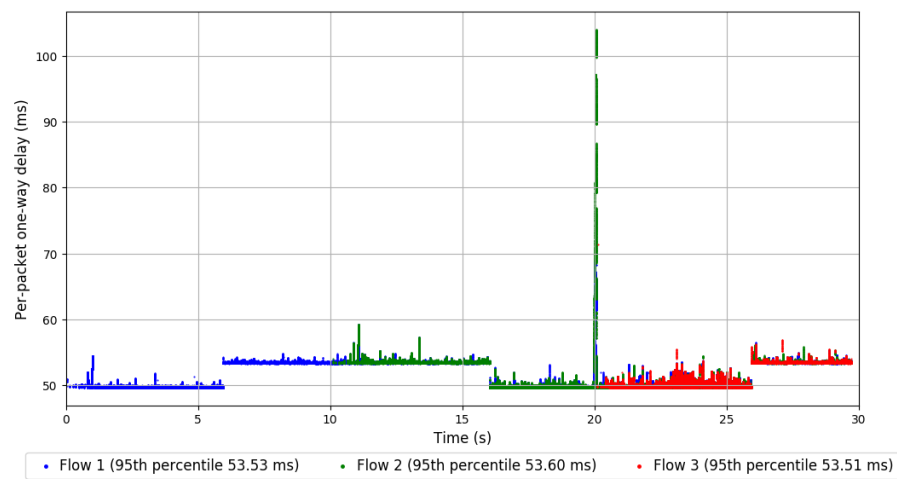
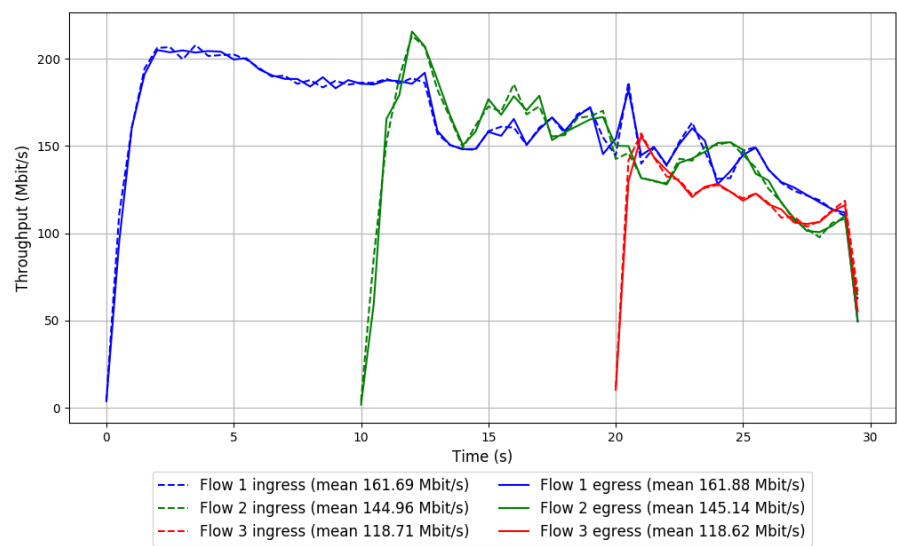
-- Flow 3:

Average throughput: 118.62 Mbit/s

95th percentile per-packet one-way delay: 53.509 ms

Loss rate: 1.13%

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



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 17:34:00

End at: 2018-01-26 17:34:30

Below is generated by plot.py at 2018-01-26 21:57:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.62 Mbit/s

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

Loss rate: 0.47%

-- Flow 1:

Average throughput: 169.15 Mbit/s

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

Loss rate: 0.34%

-- Flow 2:

Average throughput: 165.38 Mbit/s

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

Loss rate: 0.58%

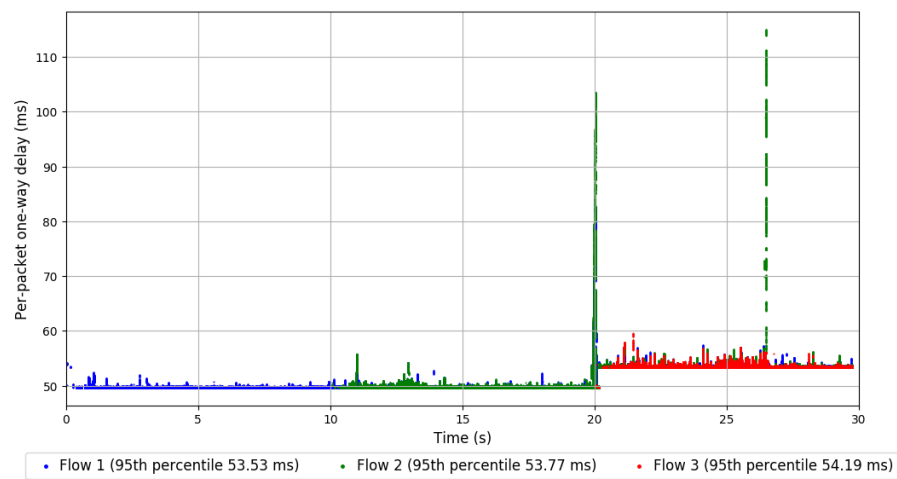
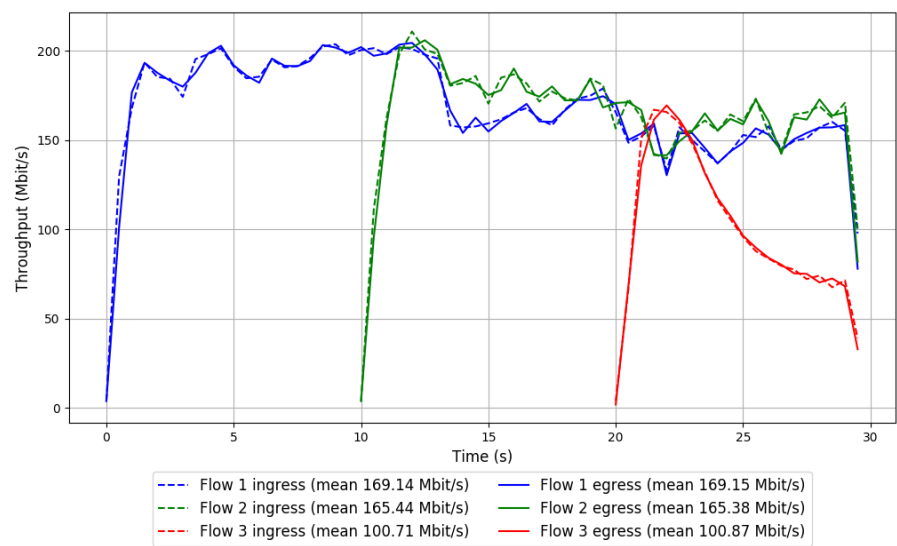
-- Flow 3:

Average throughput: 100.87 Mbit/s

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

Loss rate: 0.75%

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



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 17:48:10

End at: 2018-01-26 17:48:40

Below is generated by plot.py at 2018-01-26 21:57:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.52 Mbit/s

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

Loss rate: 0.44%

-- Flow 1:

Average throughput: 164.84 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 140.48 Mbit/s

95th percentile per-packet one-way delay: 53.874 ms

Loss rate: 0.32%

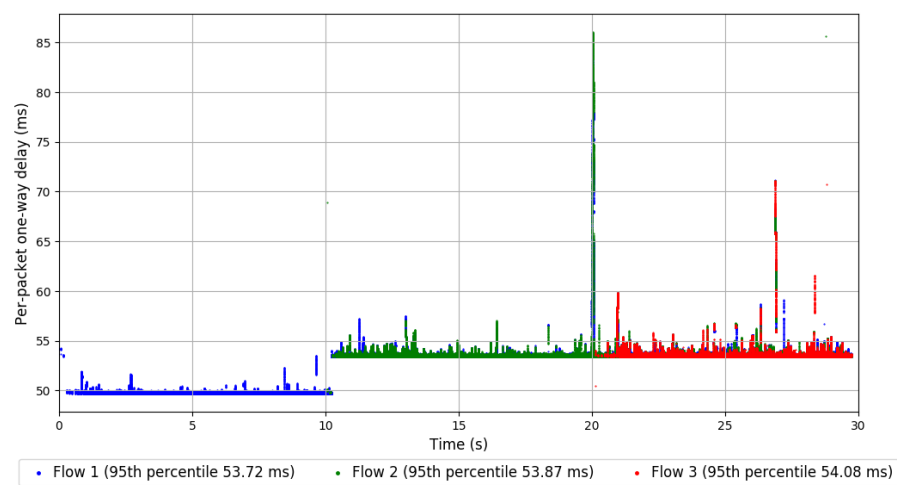
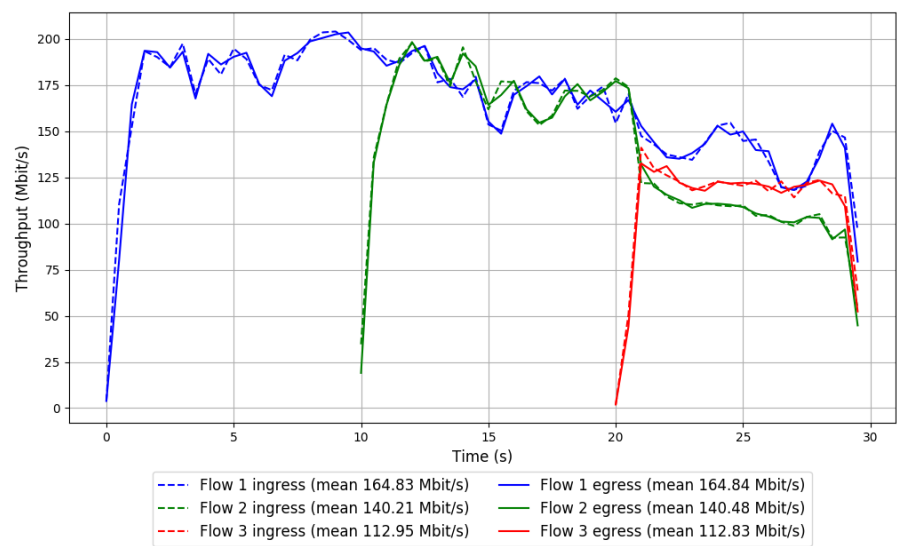
-- Flow 3:

Average throughput: 112.83 Mbit/s

95th percentile per-packet one-way delay: 54.080 ms

Loss rate: 1.15%

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



Run 8: Statistics of Indigo-2-256

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

End at: 2018-01-26 18:02:24

Below is generated by plot.py at 2018-01-26 21:59:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.36 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 173.77 Mbit/s

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

Loss rate: 0.34%

-- Flow 2:

Average throughput: 159.14 Mbit/s

95th percentile per-packet one-way delay: 54.020 ms

Loss rate: 0.51%

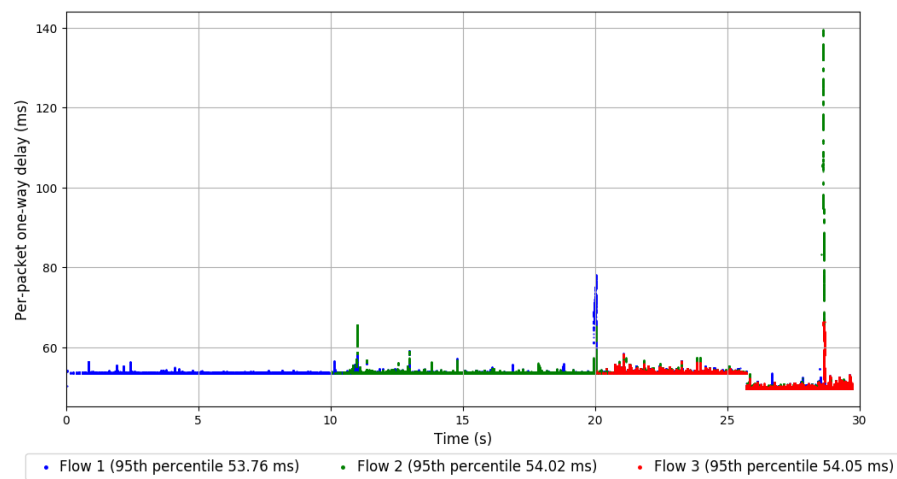
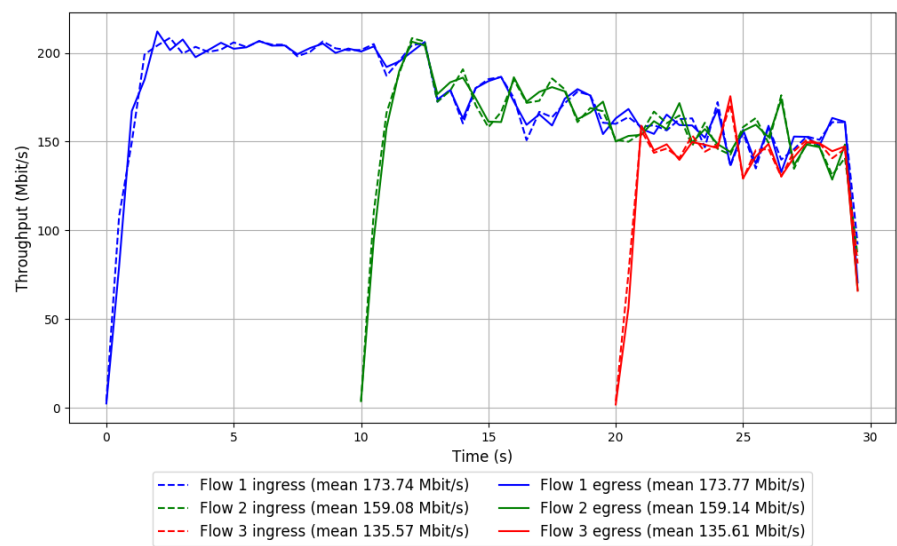
-- Flow 3:

Average throughput: 135.61 Mbit/s

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

Loss rate: 1.07%

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



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 18:15:46

End at: 2018-01-26 18:16:16

Below is generated by plot.py at 2018-01-26 22:00:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.76 Mbit/s

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

Loss rate: 0.44%

-- Flow 1:

Average throughput: 169.47 Mbit/s

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

Loss rate: 0.17%

-- Flow 2:

Average throughput: 157.39 Mbit/s

95th percentile per-packet one-way delay: 53.949 ms

Loss rate: 0.50%

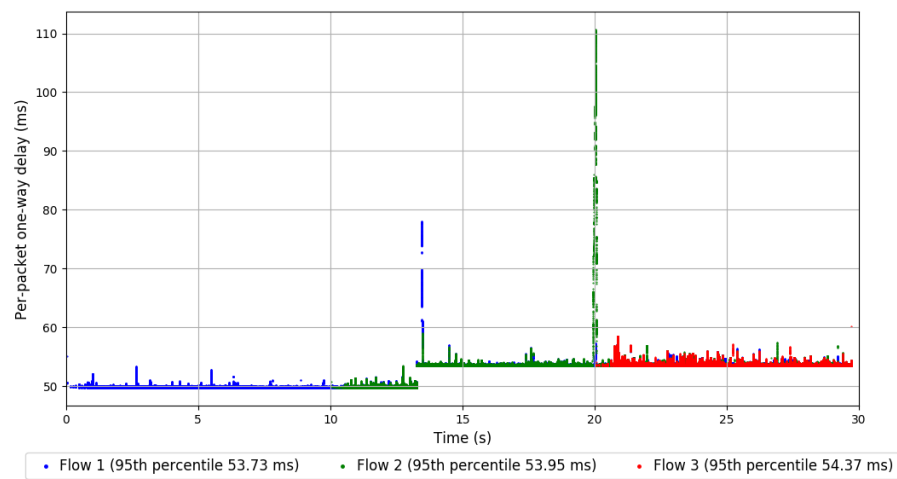
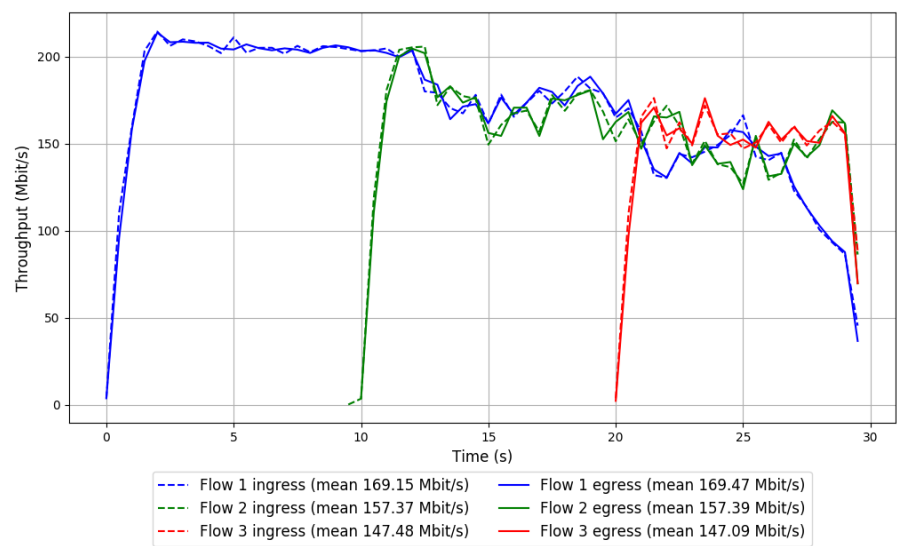
-- Flow 3:

Average throughput: 147.09 Mbit/s

95th percentile per-packet one-way delay: 54.370 ms

Loss rate: 1.27%

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



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 18:30:11

End at: 2018-01-26 18:30:41

Below is generated by plot.py at 2018-01-26 22:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.45 Mbit/s

95th percentile per-packet one-way delay: 51.094 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 176.05 Mbit/s

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

Loss rate: 0.33%

-- Flow 2:

Average throughput: 167.28 Mbit/s

95th percentile per-packet one-way delay: 51.478 ms

Loss rate: 0.49%

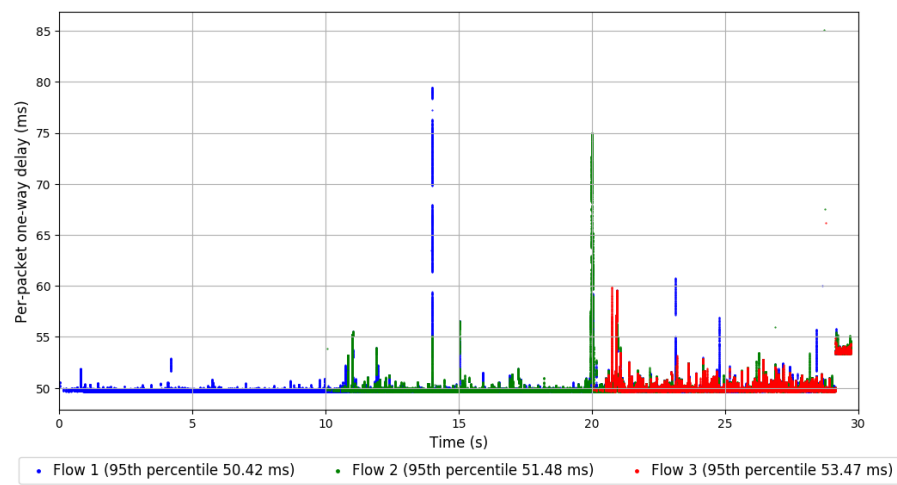
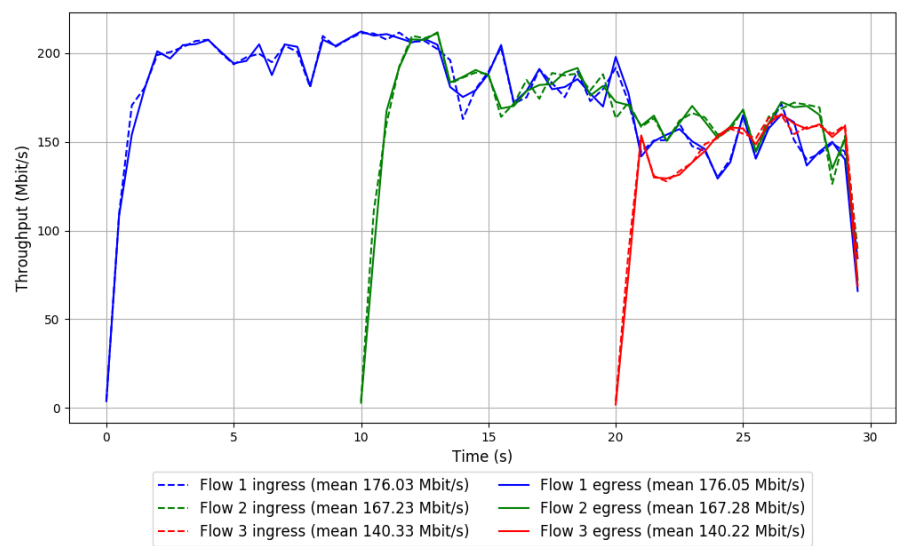
-- Flow 3:

Average throughput: 140.22 Mbit/s

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

Loss rate: 1.12%

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

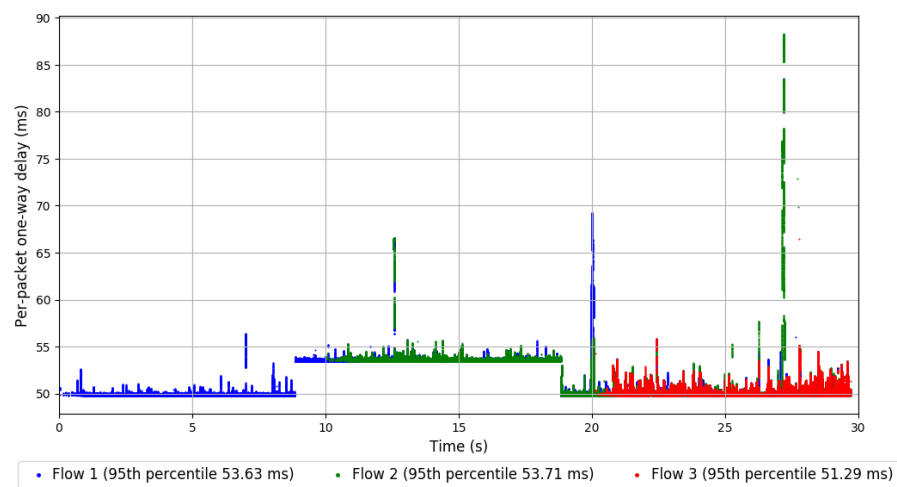
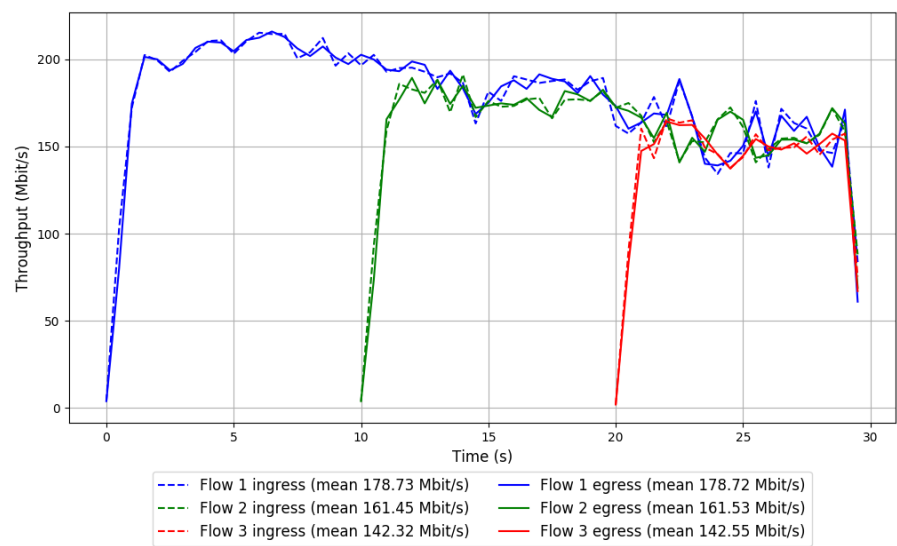


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 16:17:21
End at: 2018-01-26 16:17:51

# Below is generated by plot.py at 2018-01-26 22:01:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.81 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 178.72 Mbit/s
95th percentile per-packet one-way delay: 53.632 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 161.53 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 142.55 Mbit/s
95th percentile per-packet one-way delay: 51.291 ms
Loss rate: 0.90%
```

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

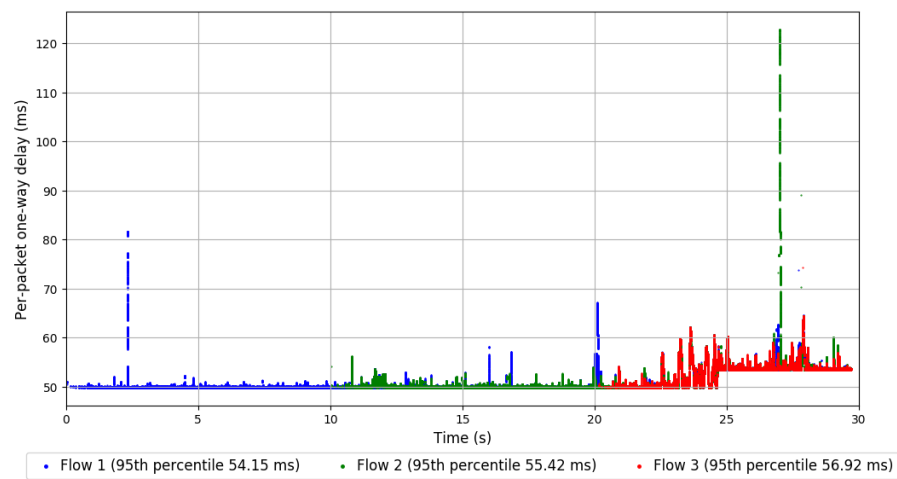
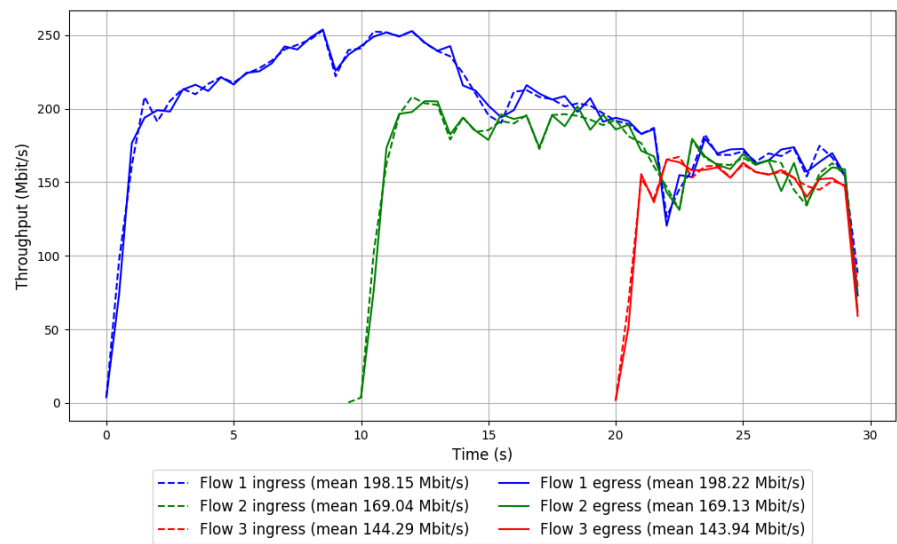


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 16:31:35
End at: 2018-01-26 16:32:05

# Below is generated by plot.py at 2018-01-26 22:02:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.63 Mbit/s
95th percentile per-packet one-way delay: 55.145 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 198.22 Mbit/s
95th percentile per-packet one-way delay: 54.152 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 169.13 Mbit/s
95th percentile per-packet one-way delay: 55.418 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 143.94 Mbit/s
95th percentile per-packet one-way delay: 56.923 ms
Loss rate: 1.28%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 16:45:47

End at: 2018-01-26 16:46:17

Below is generated by plot.py at 2018-01-26 22:02:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.08 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 169.69 Mbit/s

95th percentile per-packet one-way delay: 54.050 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 167.54 Mbit/s

95th percentile per-packet one-way delay: 54.406 ms

Loss rate: 0.36%

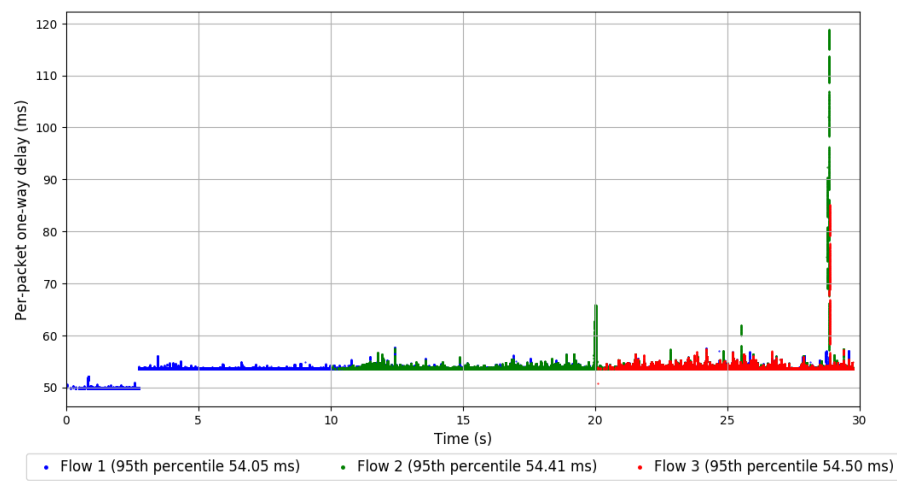
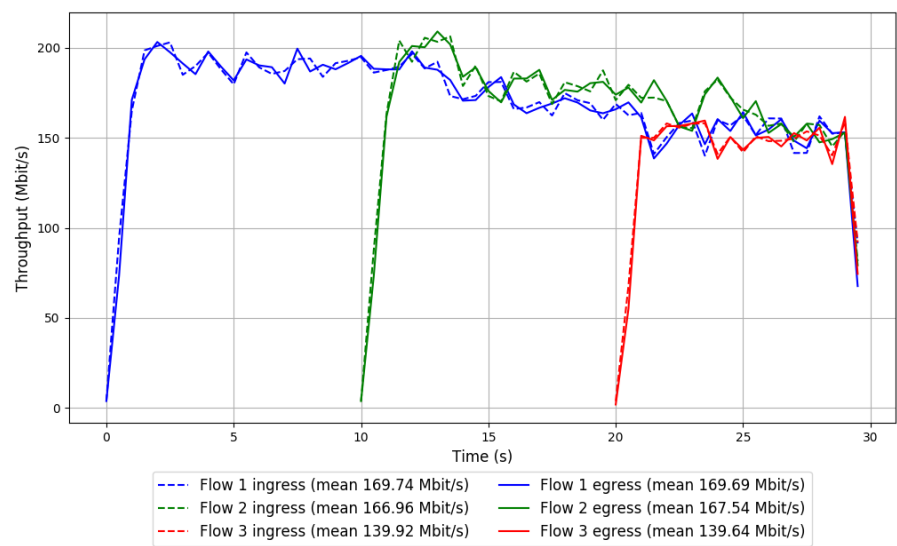
-- Flow 3:

Average throughput: 139.64 Mbit/s

95th percentile per-packet one-way delay: 54.496 ms

Loss rate: 1.26%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 16:59:46

End at: 2018-01-26 17:00:16

Below is generated by plot.py at 2018-01-26 22:03:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.21 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 191.79 Mbit/s

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

Loss rate: 0.34%

-- Flow 2:

Average throughput: 170.74 Mbit/s

95th percentile per-packet one-way delay: 54.355 ms

Loss rate: 0.59%

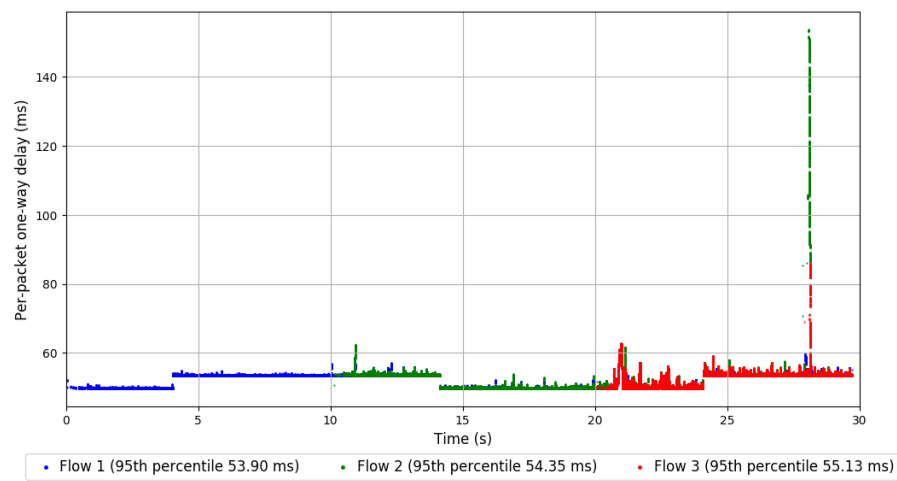
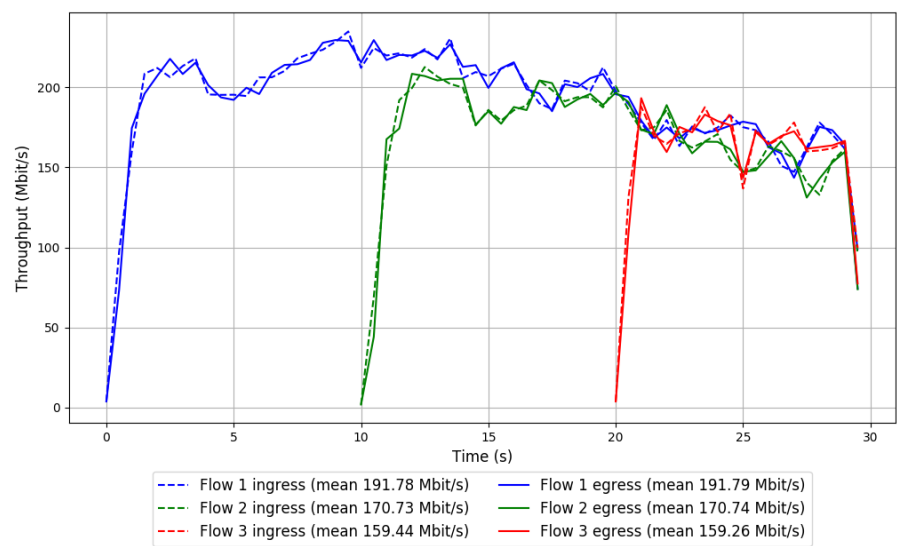
-- Flow 3:

Average throughput: 159.26 Mbit/s

95th percentile per-packet one-way delay: 55.127 ms

Loss rate: 1.20%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 17:13:41

End at: 2018-01-26 17:14:11

Below is generated by plot.py at 2018-01-26 22:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.24 Mbit/s

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

Loss rate: 0.51%

-- Flow 1:

Average throughput: 187.87 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 173.22 Mbit/s

95th percentile per-packet one-way delay: 53.562 ms

Loss rate: 0.50%

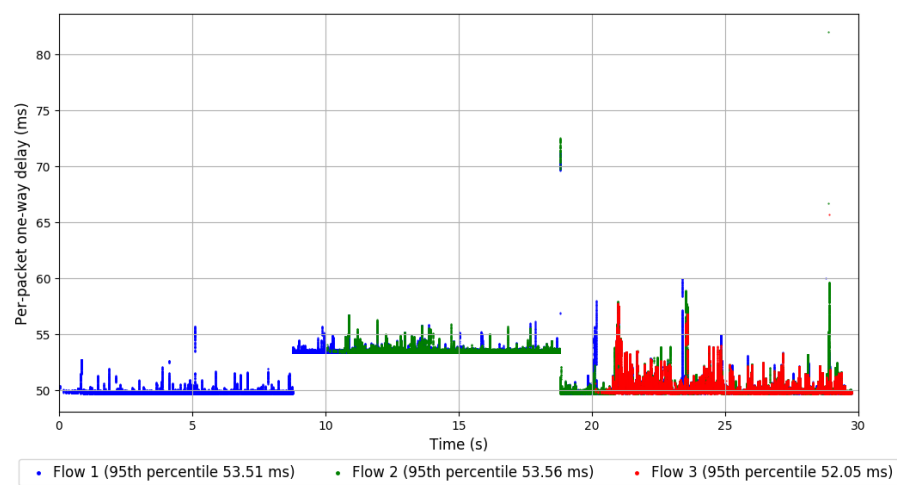
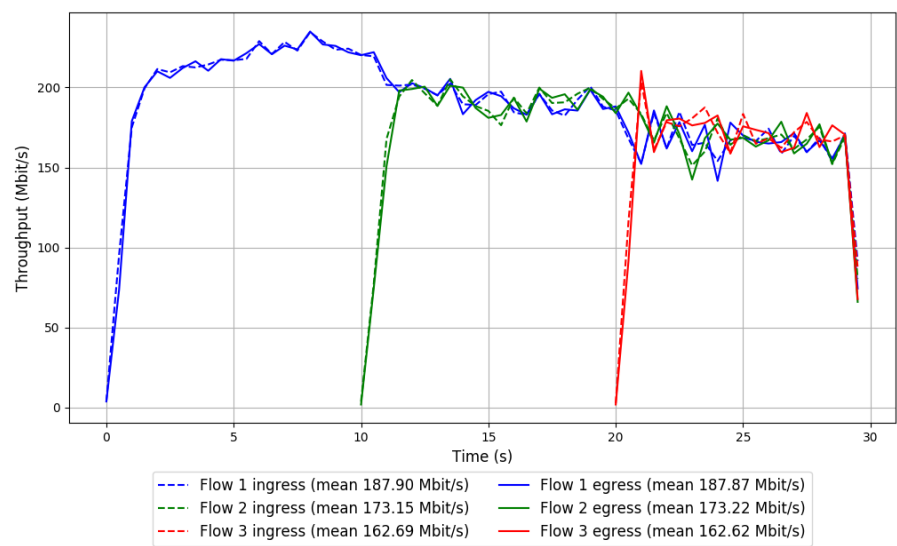
-- Flow 3:

Average throughput: 162.62 Mbit/s

95th percentile per-packet one-way delay: 52.045 ms

Loss rate: 1.08%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 17:27:38

End at: 2018-01-26 17:28:08

Below is generated by plot.py at 2018-01-26 22:04:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.20 Mbit/s

95th percentile per-packet one-way delay: 54.440 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 188.97 Mbit/s

95th percentile per-packet one-way delay: 53.975 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 160.33 Mbit/s

95th percentile per-packet one-way delay: 54.363 ms

Loss rate: 0.68%

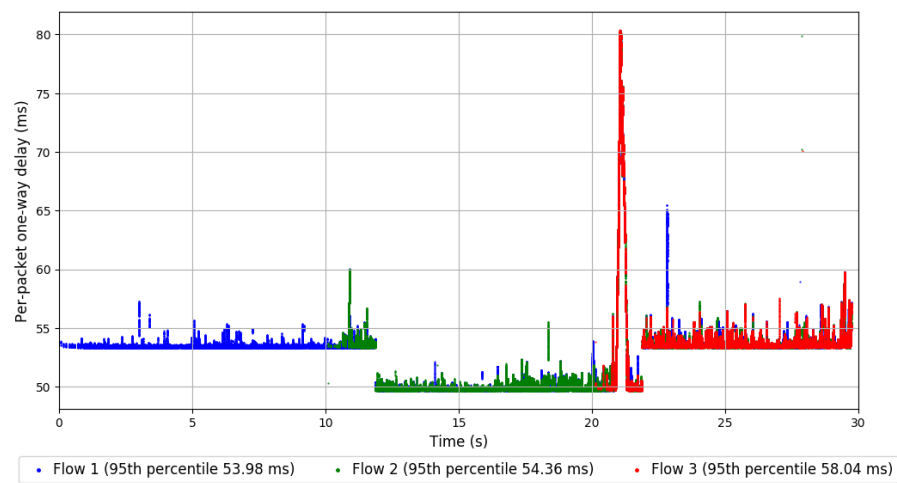
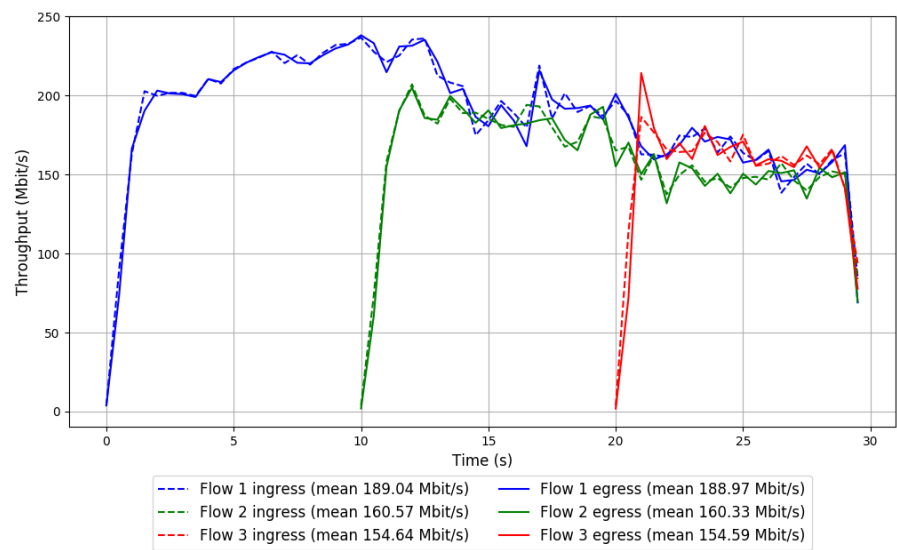
-- Flow 3:

Average throughput: 154.59 Mbit/s

95th percentile per-packet one-way delay: 58.042 ms

Loss rate: 1.10%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 17:41:50

End at: 2018-01-26 17:42:20

Below is generated by plot.py at 2018-01-26 22:05:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.13 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 185.97 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 151.81 Mbit/s

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

Loss rate: 0.47%

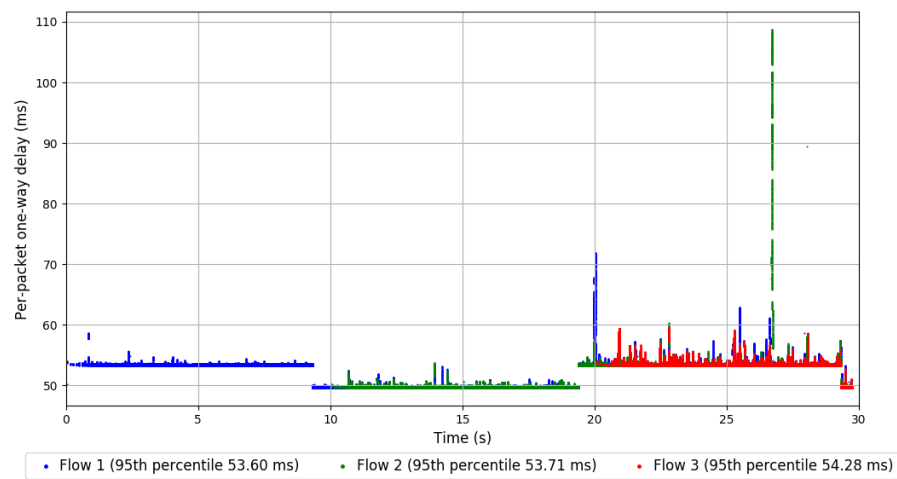
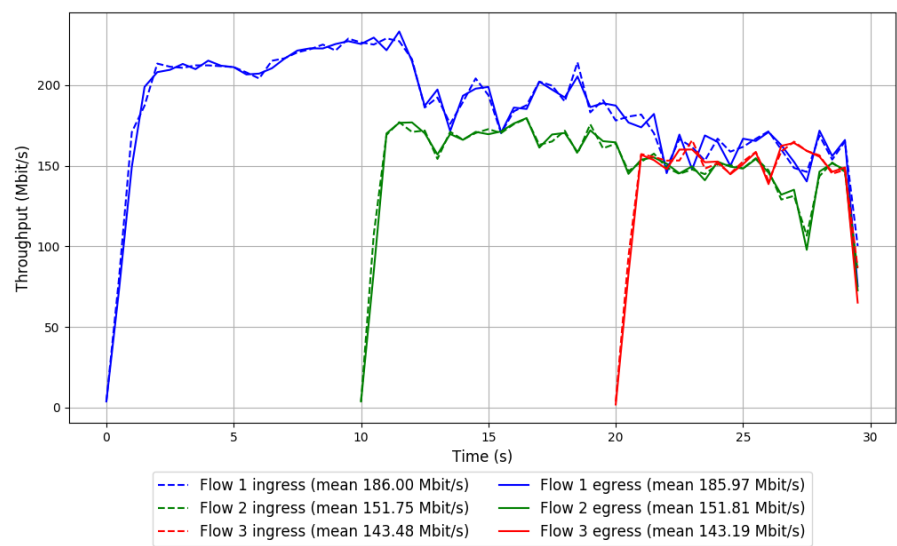
-- Flow 3:

Average throughput: 143.19 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 1.28%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 17:55:34

End at: 2018-01-26 17:56:04

Below is generated by plot.py at 2018-01-26 22:05:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.66 Mbit/s

95th percentile per-packet one-way delay: 55.624 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 182.97 Mbit/s

95th percentile per-packet one-way delay: 54.838 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 159.14 Mbit/s

95th percentile per-packet one-way delay: 55.584 ms

Loss rate: 0.43%

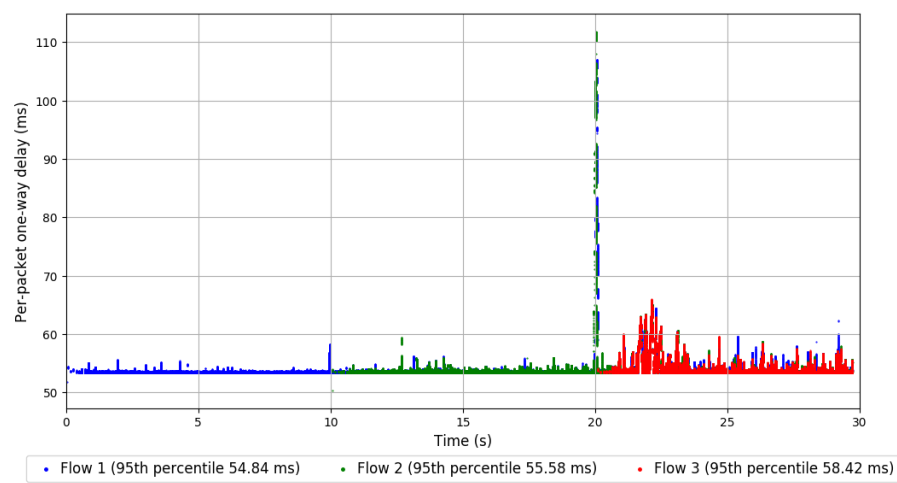
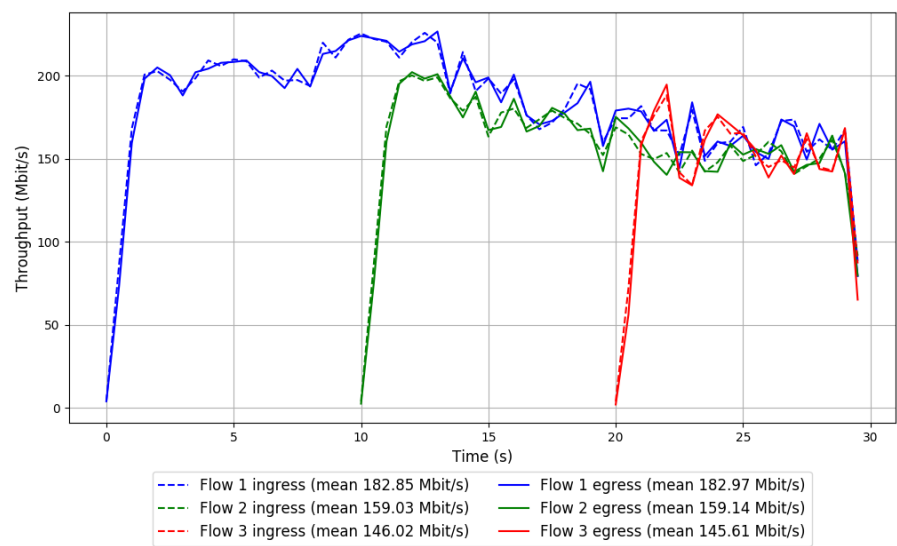
-- Flow 3:

Average throughput: 145.61 Mbit/s

95th percentile per-packet one-way delay: 58.425 ms

Loss rate: 1.36%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 18:09:26

End at: 2018-01-26 18:09:56

Below is generated by plot.py at 2018-01-26 22:07:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.95 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 172.31 Mbit/s

95th percentile per-packet one-way delay: 54.075 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 166.11 Mbit/s

95th percentile per-packet one-way delay: 54.592 ms

Loss rate: 0.56%

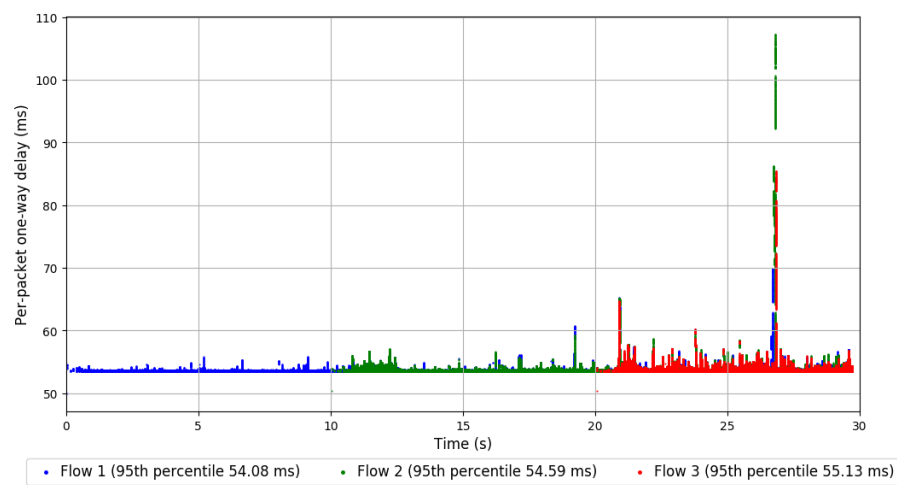
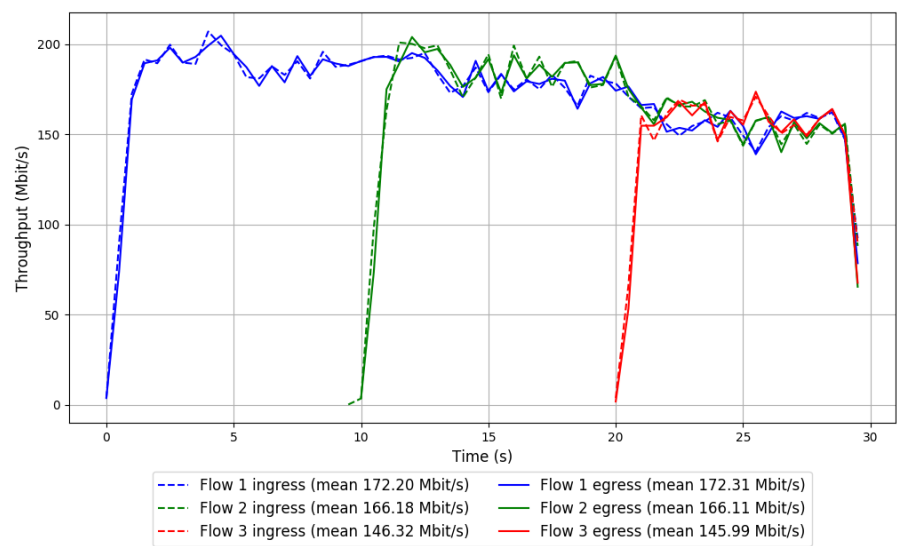
-- Flow 3:

Average throughput: 145.99 Mbit/s

95th percentile per-packet one-way delay: 55.130 ms

Loss rate: 1.31%

Run 9: Report of Indigo-1-32 — Data Link

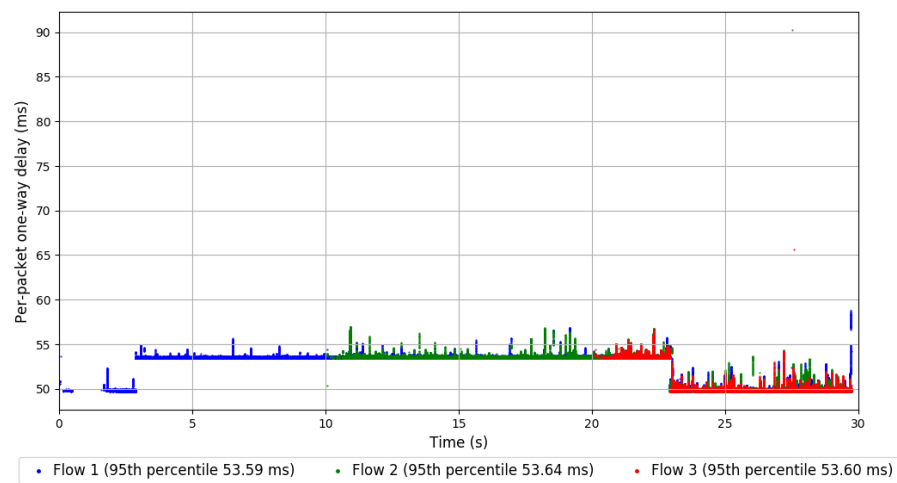
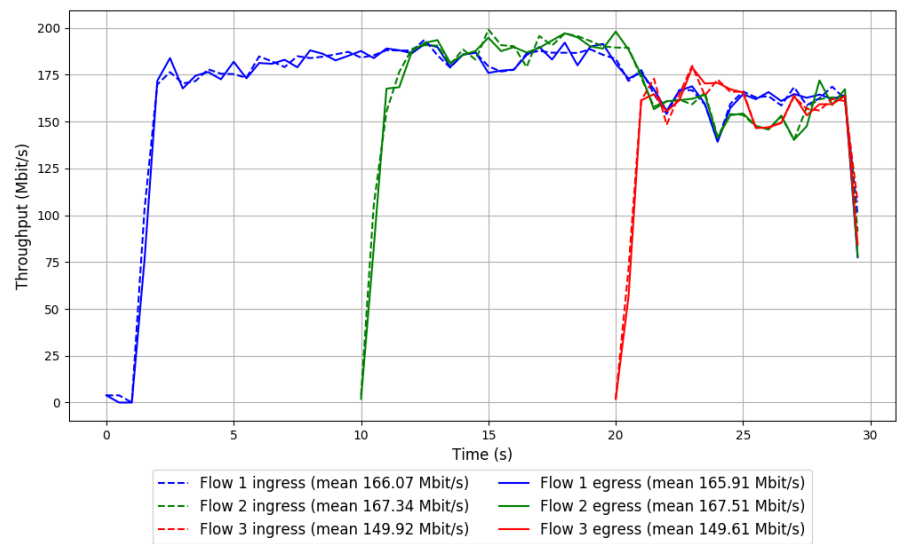


```
Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 18:23:47
End at: 2018-01-26 18:24:17

# Below is generated by plot.py at 2018-01-26 22:08:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.35 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 165.91 Mbit/s
95th percentile per-packet one-way delay: 53.591 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 167.51 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 149.61 Mbit/s
95th percentile per-packet one-way delay: 53.605 ms
Loss rate: 1.26%
```

Run 10: Report of Indigo-1-32 — Data Link

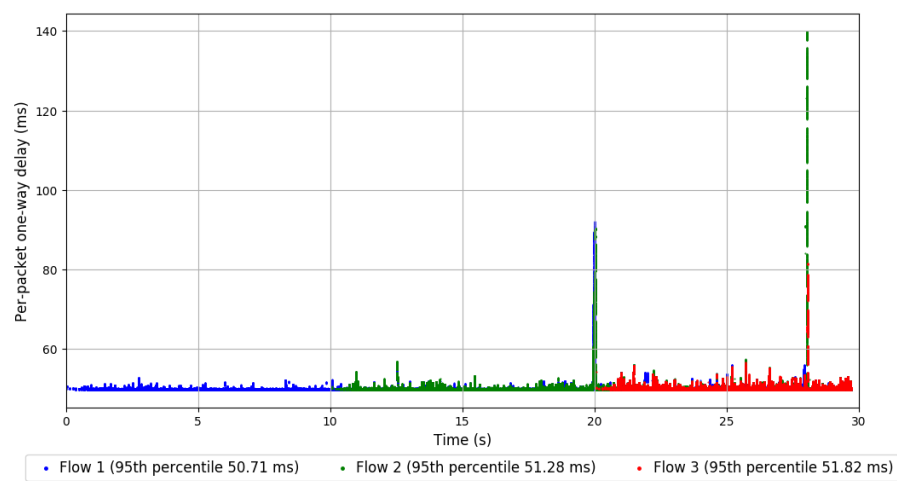
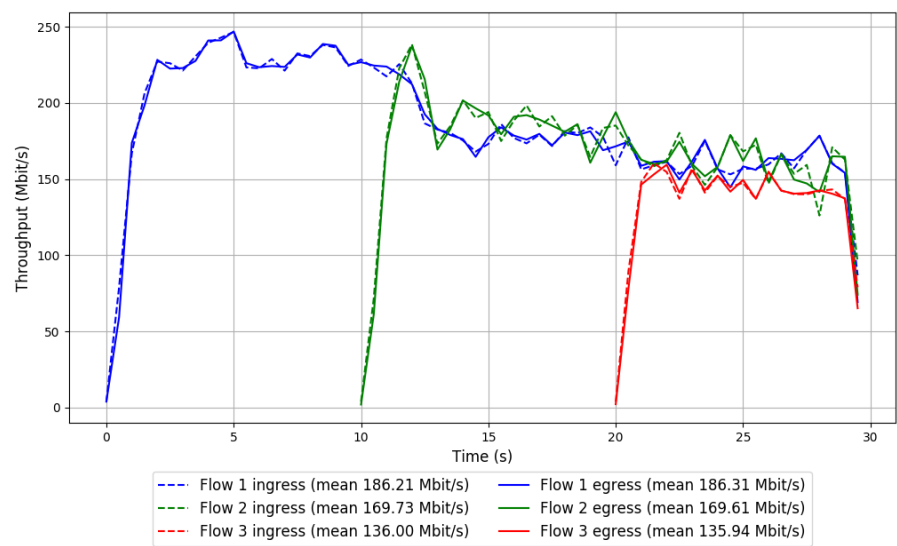


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 16:22:00
End at: 2018-01-26 16:22:30

# Below is generated by plot.py at 2018-01-26 22:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.72 Mbit/s
95th percentile per-packet one-way delay: 51.053 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 186.31 Mbit/s
95th percentile per-packet one-way delay: 50.706 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 169.61 Mbit/s
95th percentile per-packet one-way delay: 51.278 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 135.94 Mbit/s
95th percentile per-packet one-way delay: 51.822 ms
Loss rate: 1.08%
```


Run 1: Report of Indigo-1-128 — Data Link

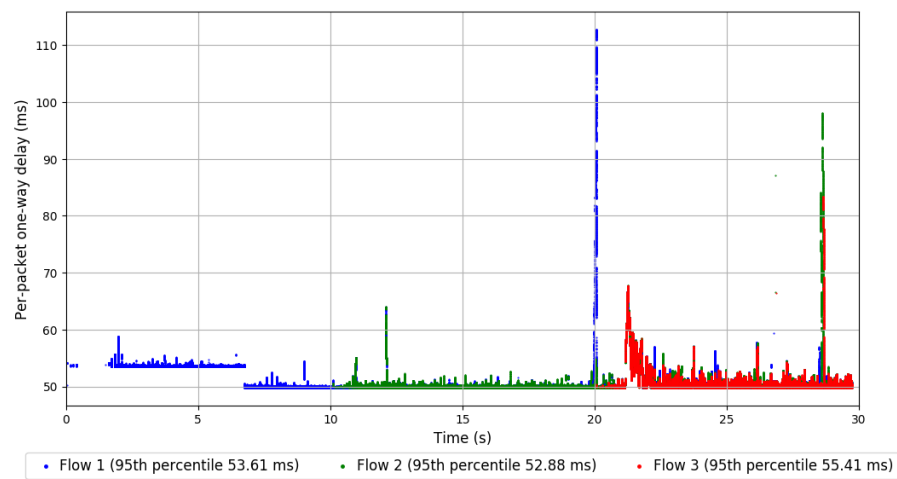
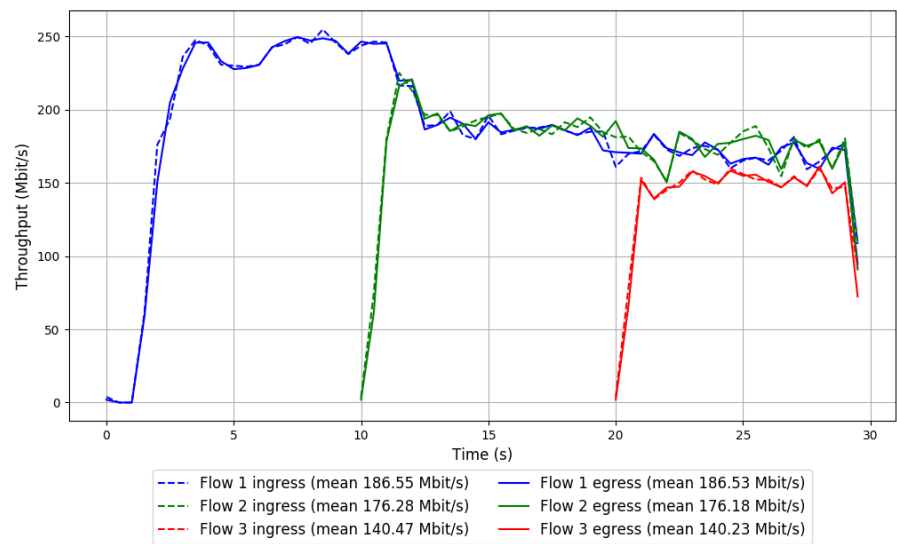


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 16:36:13
End at: 2018-01-26 16:36:43

# Below is generated by plot.py at 2018-01-26 22:09:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.74 Mbit/s
95th percentile per-packet one-way delay: 53.609 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 186.53 Mbit/s
95th percentile per-packet one-way delay: 53.613 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 176.18 Mbit/s
95th percentile per-packet one-way delay: 52.885 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 140.23 Mbit/s
95th percentile per-packet one-way delay: 55.408 ms
Loss rate: 1.20%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 16:50:22

End at: 2018-01-26 16:50:52

Below is generated by plot.py at 2018-01-26 22:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.33 Mbit/s

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

Loss rate: 0.53%

-- Flow 1:

Average throughput: 179.79 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 170.83 Mbit/s

95th percentile per-packet one-way delay: 54.050 ms

Loss rate: 0.52%

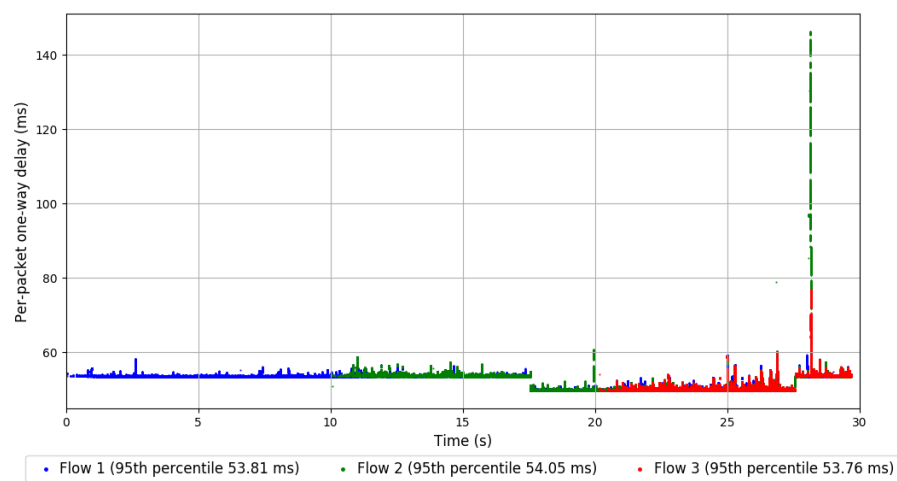
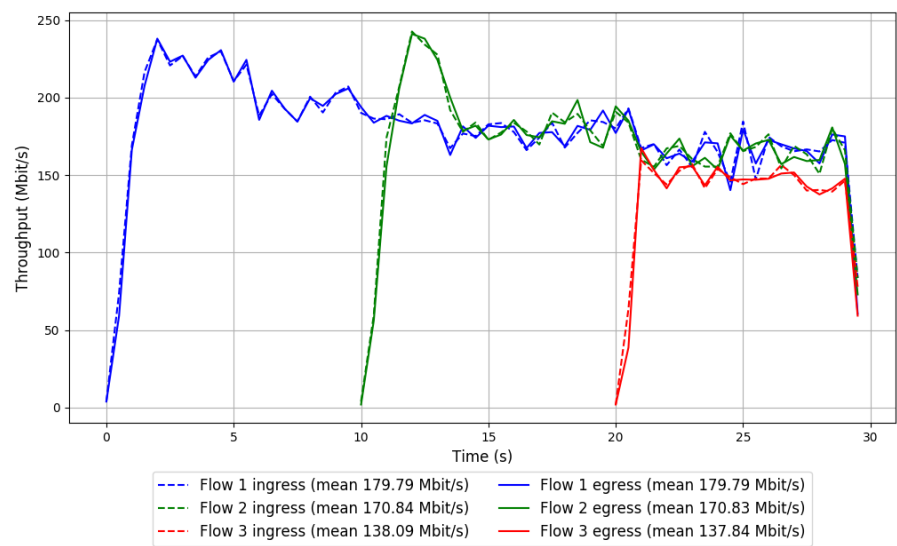
-- Flow 3:

Average throughput: 137.84 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 1.23%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 17:04:26

End at: 2018-01-26 17:04:56

Below is generated by plot.py at 2018-01-26 22:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.17 Mbit/s

95th percentile per-packet one-way delay: 54.479 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 191.85 Mbit/s

95th percentile per-packet one-way delay: 54.094 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 172.41 Mbit/s

95th percentile per-packet one-way delay: 54.630 ms

Loss rate: 0.41%

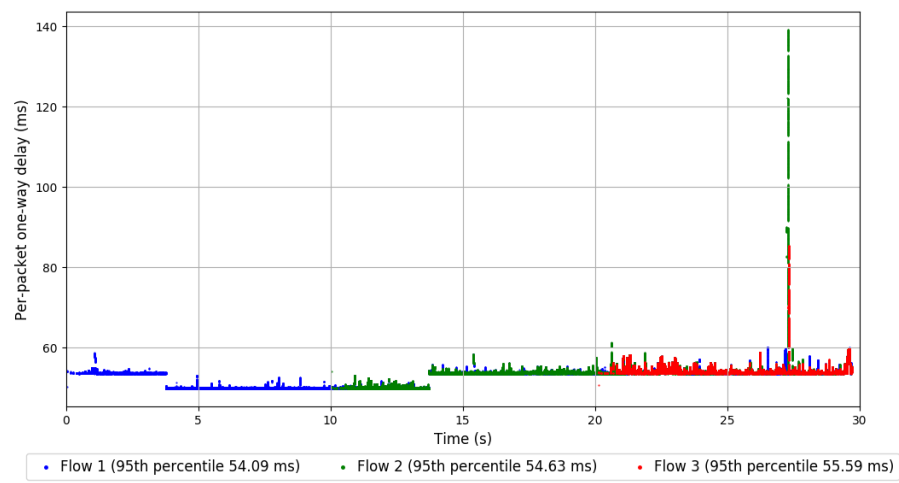
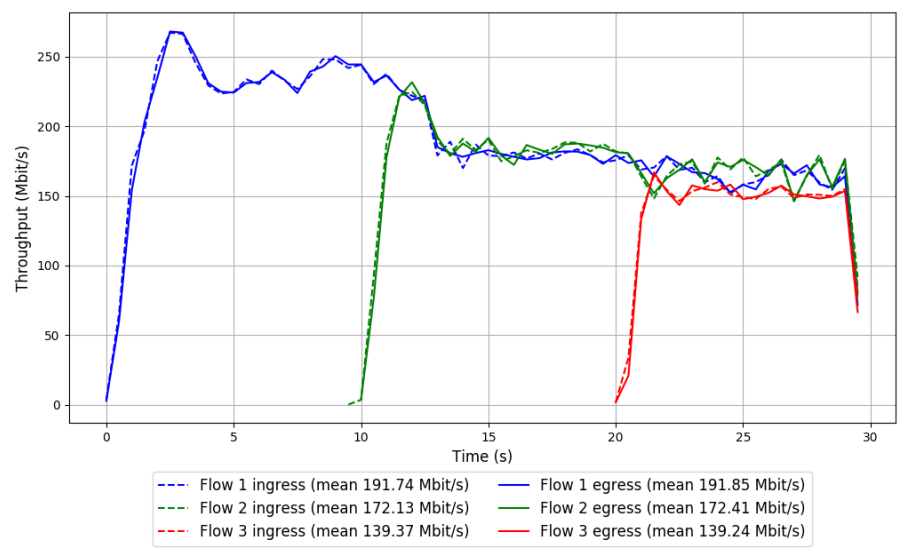
-- Flow 3:

Average throughput: 139.24 Mbit/s

95th percentile per-packet one-way delay: 55.588 ms

Loss rate: 1.14%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 17:18:21

End at: 2018-01-26 17:18:51

Below is generated by plot.py at 2018-01-26 22:11:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.58 Mbit/s

95th percentile per-packet one-way delay: 53.600 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 171.38 Mbit/s

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

Loss rate: 0.26%

-- Flow 2:

Average throughput: 169.59 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.44%

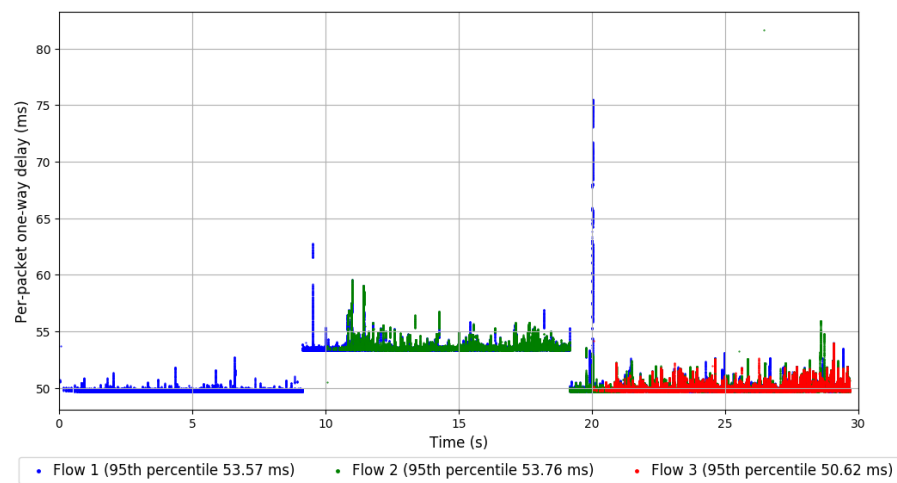
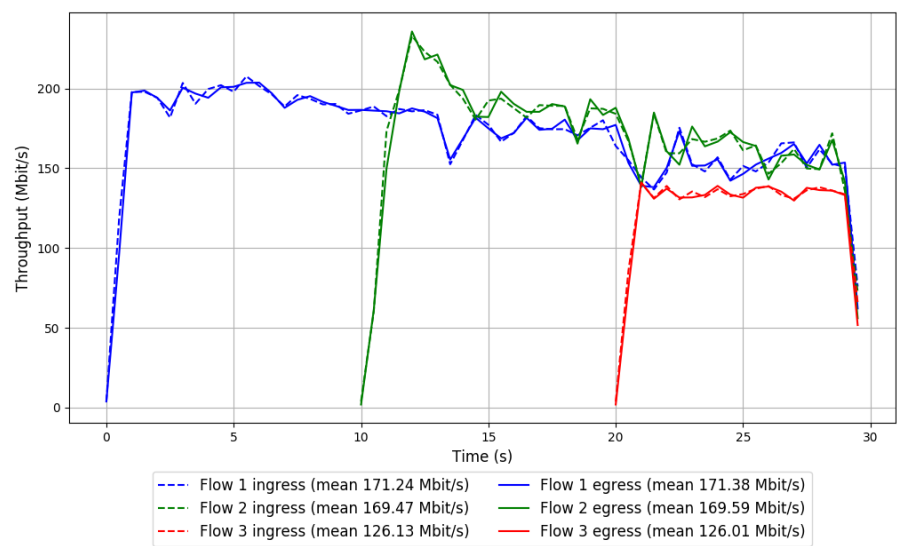
-- Flow 3:

Average throughput: 126.01 Mbit/s

95th percentile per-packet one-way delay: 50.622 ms

Loss rate: 1.15%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 17:32:16

End at: 2018-01-26 17:32:46

Below is generated by plot.py at 2018-01-26 22:11:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.52 Mbit/s

95th percentile per-packet one-way delay: 54.481 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 184.65 Mbit/s

95th percentile per-packet one-way delay: 53.910 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 170.76 Mbit/s

95th percentile per-packet one-way delay: 54.667 ms

Loss rate: 0.53%

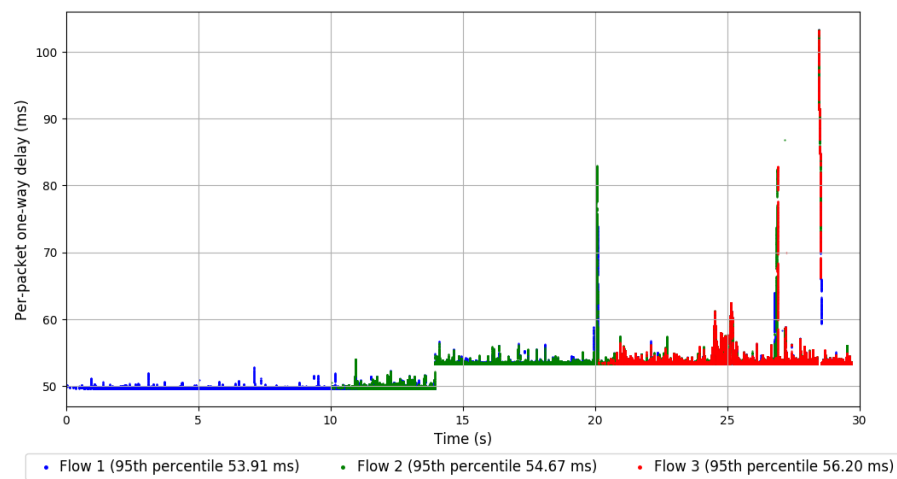
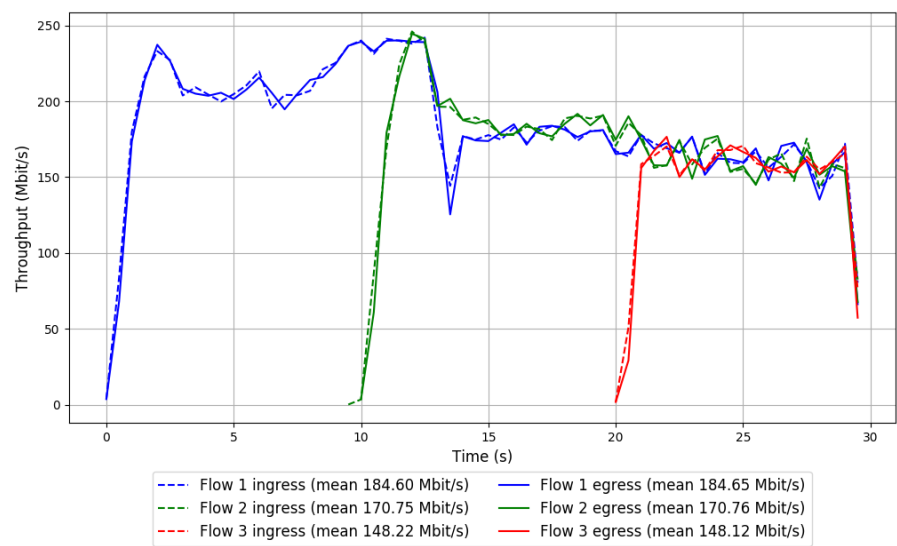
-- Flow 3:

Average throughput: 148.12 Mbit/s

95th percentile per-packet one-way delay: 56.195 ms

Loss rate: 1.19%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 17:46:26

End at: 2018-01-26 17:46:56

Below is generated by plot.py at 2018-01-26 22:11:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.19 Mbit/s

95th percentile per-packet one-way delay: 54.146 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 179.14 Mbit/s

95th percentile per-packet one-way delay: 53.984 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 163.03 Mbit/s

95th percentile per-packet one-way delay: 54.143 ms

Loss rate: 0.48%

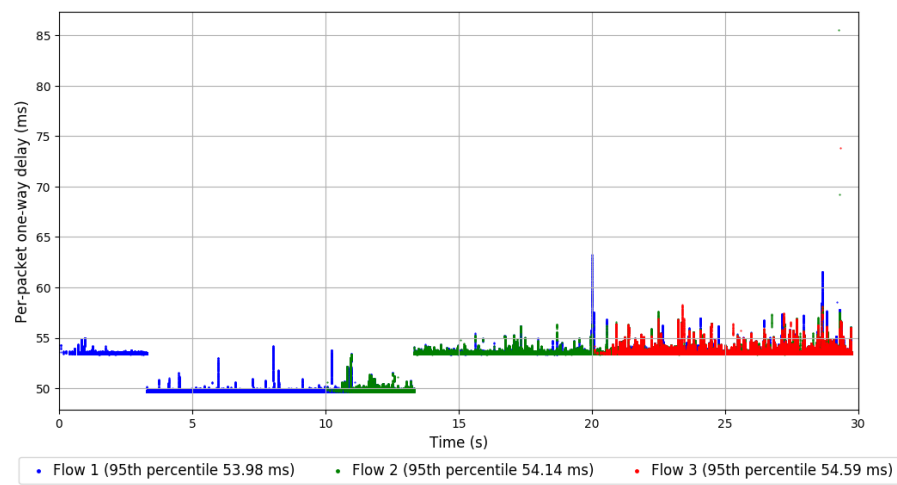
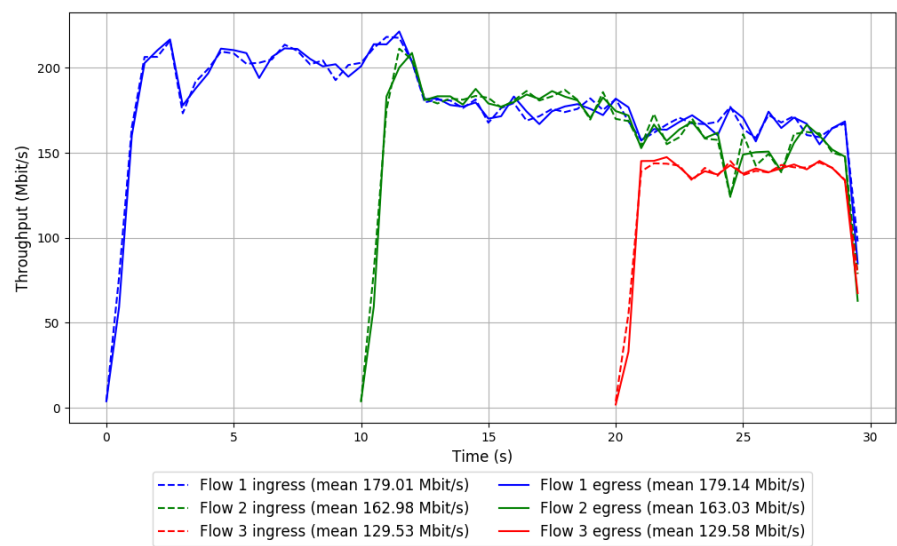
-- Flow 3:

Average throughput: 129.58 Mbit/s

95th percentile per-packet one-way delay: 54.592 ms

Loss rate: 1.04%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 18:00:11

End at: 2018-01-26 18:00:41

Below is generated by plot.py at 2018-01-26 22:12:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.77 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 175.33 Mbit/s

95th percentile per-packet one-way delay: 54.054 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 169.73 Mbit/s

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

Loss rate: 0.44%

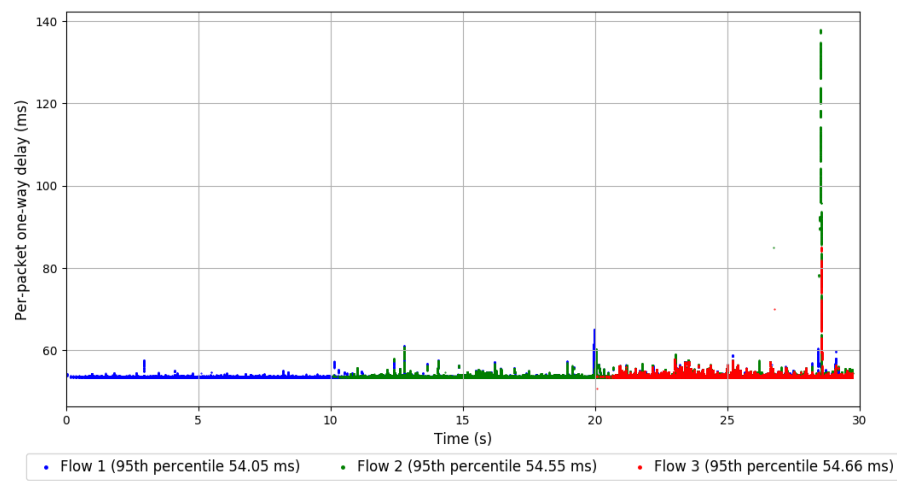
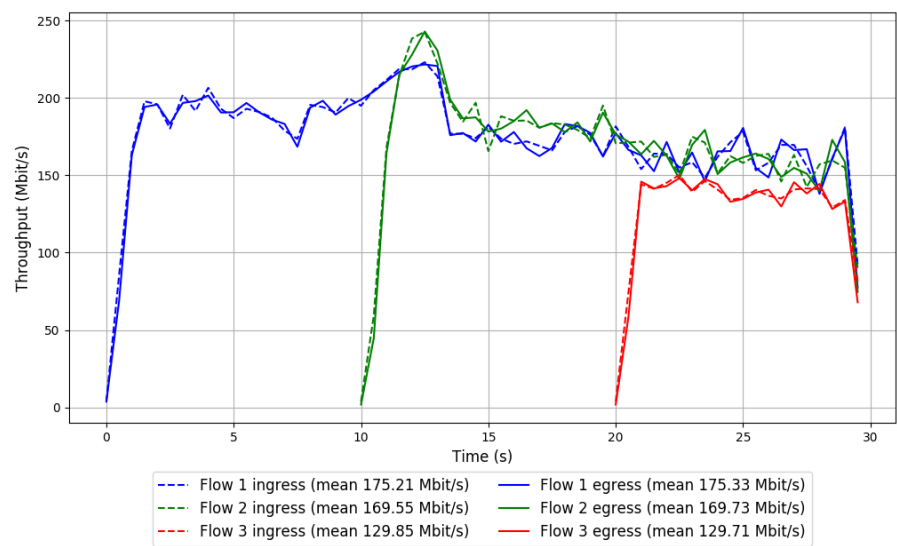
-- Flow 3:

Average throughput: 129.71 Mbit/s

95th percentile per-packet one-way delay: 54.655 ms

Loss rate: 1.17%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 18:14:03

End at: 2018-01-26 18:14:33

Below is generated by plot.py at 2018-01-26 22:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.19 Mbit/s

95th percentile per-packet one-way delay: 53.976 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 174.35 Mbit/s

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

Loss rate: 0.32%

-- Flow 2:

Average throughput: 172.65 Mbit/s

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

Loss rate: 0.60%

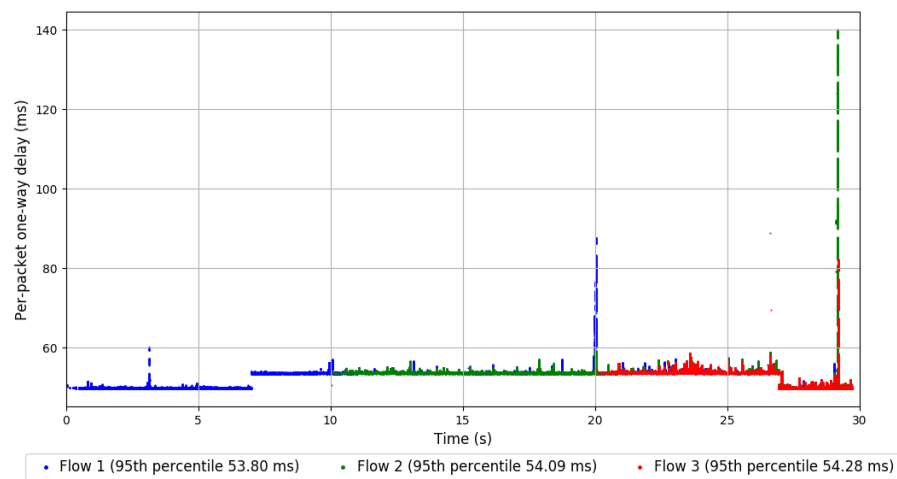
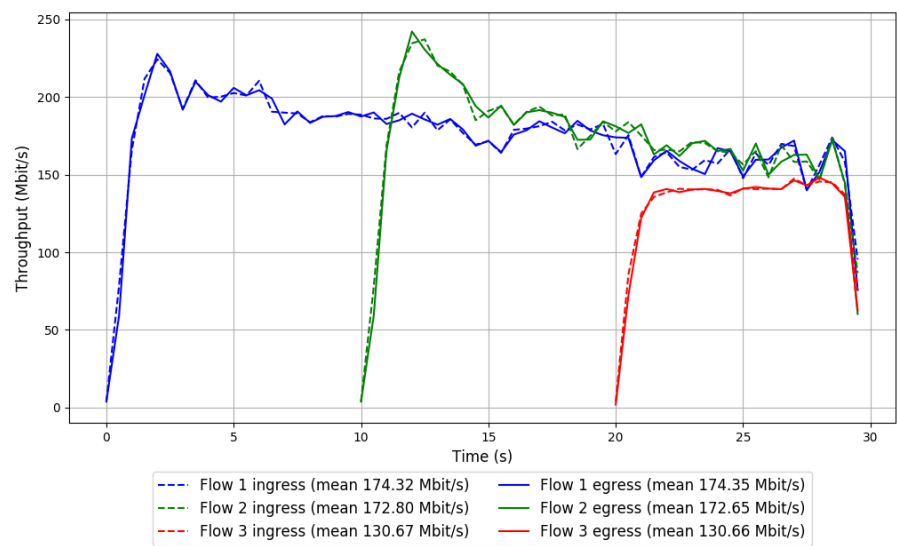
-- Flow 3:

Average throughput: 130.66 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 1.06%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 18:28:26

End at: 2018-01-26 18:28:56

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.24 Mbit/s

95th percentile per-packet one-way delay: 53.504 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 182.06 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 169.47 Mbit/s

95th percentile per-packet one-way delay: 53.509 ms

Loss rate: 0.45%

-- Flow 3:

Average throughput: 147.57 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 1.30%

Run 10: Report of Indigo-1-128 — Data Link

