

Pantheon Report

Generated at 2018-01-27 05:48:39 (UTC).

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

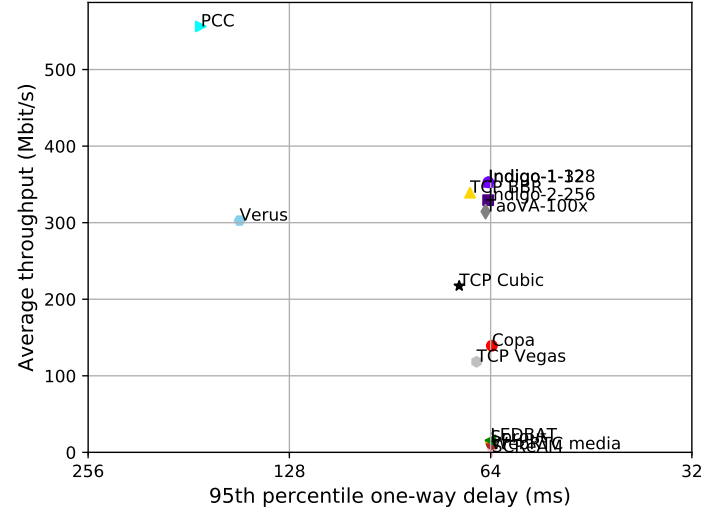
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

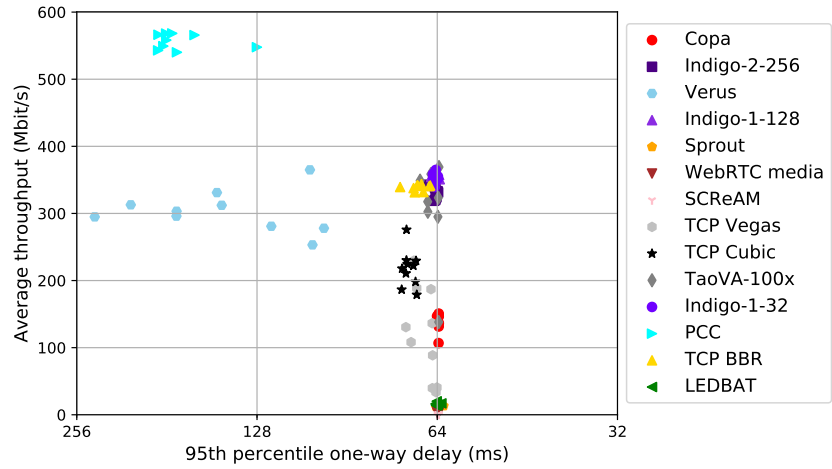
Git summary:

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



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



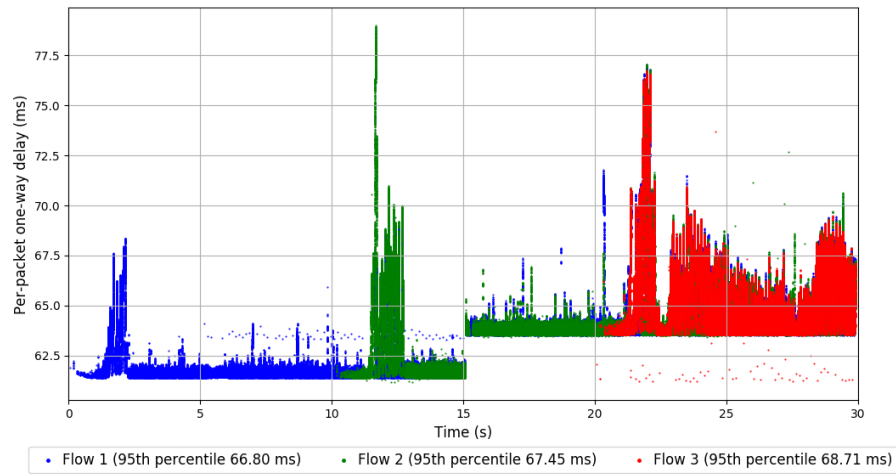
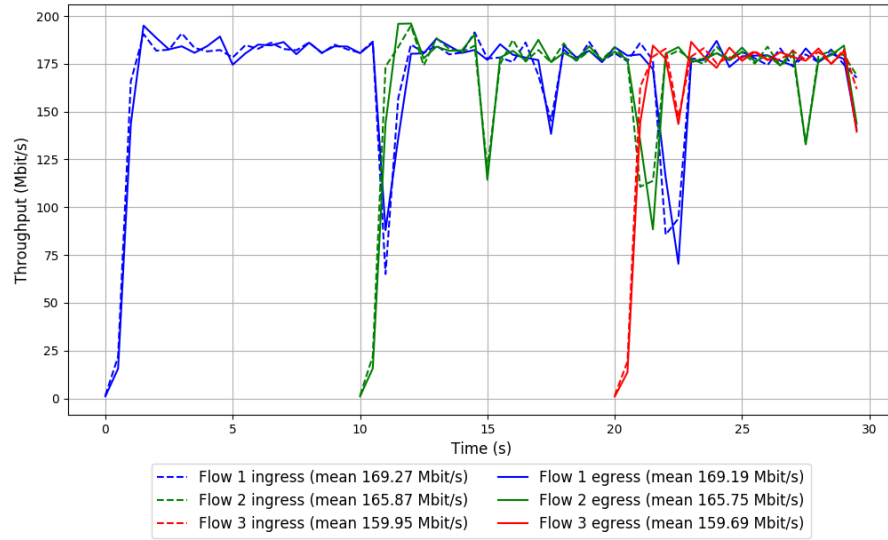
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	172.21	170.32	163.46	67.47	68.23	70.76	0.46	0.61	1.44
TCP Cubic	10	105.63	123.47	90.84	69.86	70.77	70.85	0.47	0.62	1.68
LEDBAT	10	7.74	9.17	5.72	64.16	63.89	63.49	0.80	0.97	2.55
PCC	9	513.53	53.38	22.66	174.34	170.09	158.60	1.74	1.63	2.09
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.21	0.22	0.22	63.49	63.31	63.66	0.42	0.63	1.10
WebRTC media	10	2.21	1.40	0.56	63.76	63.68	63.74	0.57	0.71	1.88
Sprout	10	6.57	6.47	6.14	64.02	64.06	63.82	0.50	0.48	1.46
TaoVA-100x	10	178.33	133.78	180.46	64.20	66.66	65.83	0.30	0.81	1.60
TCP Vegas	10	55.09	64.49	62.01	93.60	66.85	67.09	0.42	0.66	1.30
Verus	10	178.50	132.85	111.09	132.87	154.40	170.87	1.02	1.21	4.23
Copa	10	76.60	67.81	67.87	63.68	63.74	63.42	0.35	0.57	1.92
Indigo-2-256	10	174.33	163.68	144.17	64.19	64.85	65.07	0.39	0.58	1.43
Indigo-1-32	10	190.84	172.54	145.64	64.20	64.76	64.96	0.35	0.62	1.39
Indigo-1-128	10	190.67	171.60	147.75	64.10	64.94	65.22	0.36	0.60	1.43

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-26 23:36:15
End at: 2018-01-26 23:36:45

# Below is generated by plot.py at 2018-01-27 04:41:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.85 Mbit/s
95th percentile per-packet one-way delay: 67.501 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 169.19 Mbit/s
95th percentile per-packet one-way delay: 66.800 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 165.75 Mbit/s
95th percentile per-packet one-way delay: 67.451 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 159.69 Mbit/s
95th percentile per-packet one-way delay: 68.714 ms
Loss rate: 1.43%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 23:51:00

End at: 2018-01-26 23:51:30

Below is generated by plot.py at 2018-01-27 04:41:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.64 Mbit/s

95th percentile per-packet one-way delay: 65.772 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 174.09 Mbit/s

95th percentile per-packet one-way delay: 66.055 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 172.44 Mbit/s

95th percentile per-packet one-way delay: 65.131 ms

Loss rate: 0.70%

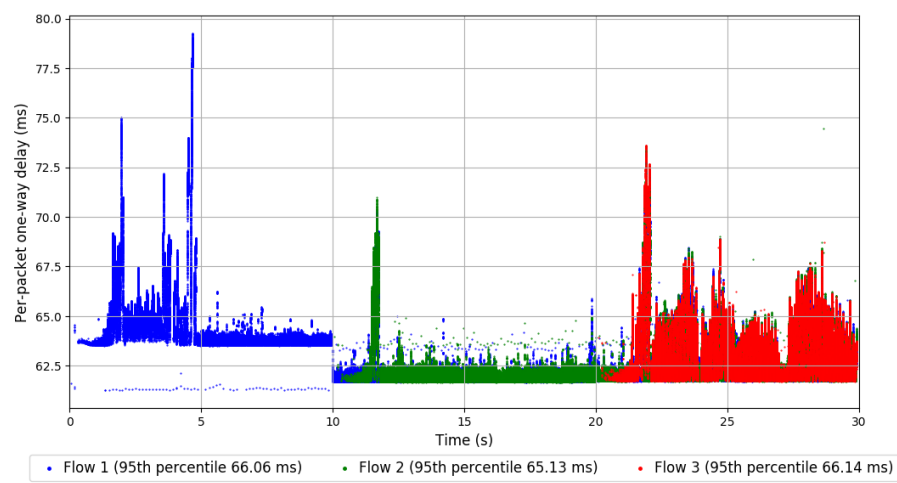
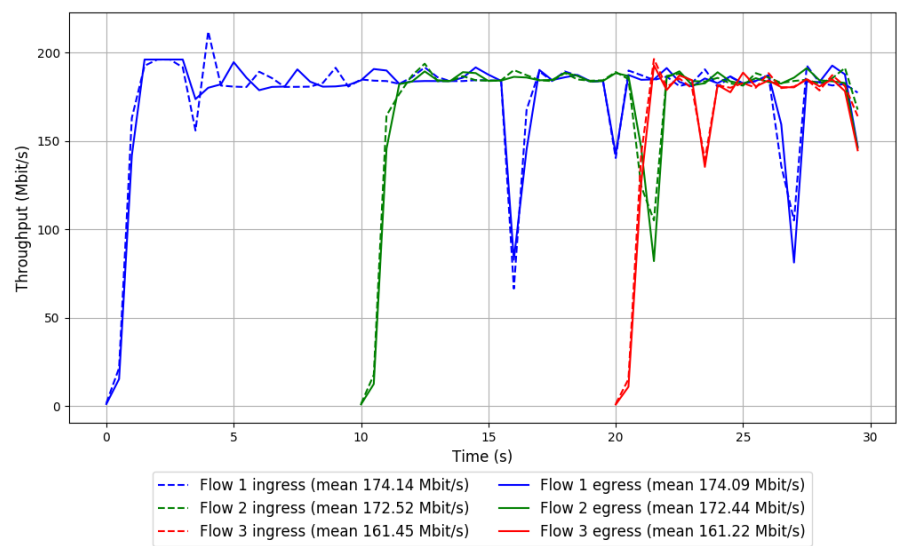
-- Flow 3:

Average throughput: 161.22 Mbit/s

95th percentile per-packet one-way delay: 66.135 ms

Loss rate: 1.43%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-27 00:05:31

End at: 2018-01-27 00:06:01

Below is generated by plot.py at 2018-01-27 04:41:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.73 Mbit/s

95th percentile per-packet one-way delay: 70.101 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 172.52 Mbit/s

95th percentile per-packet one-way delay: 67.870 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 167.82 Mbit/s

95th percentile per-packet one-way delay: 69.466 ms

Loss rate: 0.68%

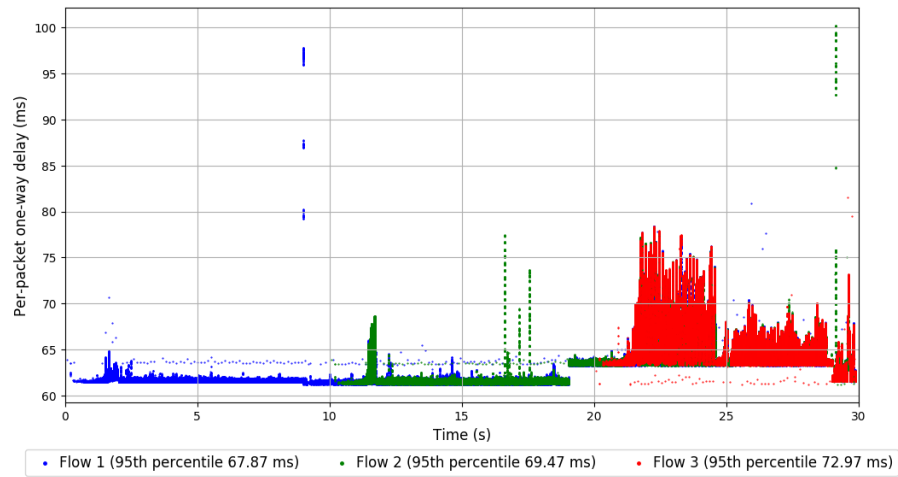
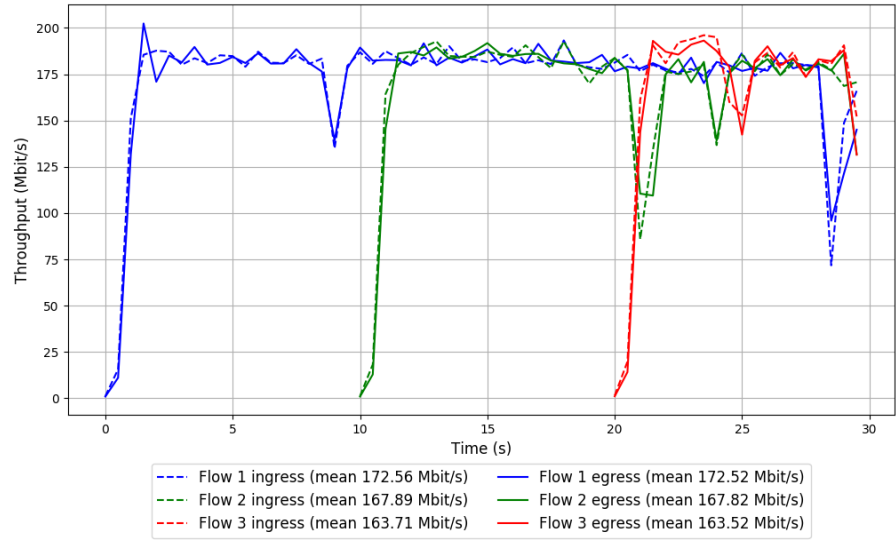
-- Flow 3:

Average throughput: 163.52 Mbit/s

95th percentile per-packet one-way delay: 72.968 ms

Loss rate: 1.39%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-27 00:20:12

End at: 2018-01-27 00:20:42

Below is generated by plot.py at 2018-01-27 04:41:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.64 Mbit/s

95th percentile per-packet one-way delay: 65.979 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 170.50 Mbit/s

95th percentile per-packet one-way delay: 64.954 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 173.94 Mbit/s

95th percentile per-packet one-way delay: 65.913 ms

Loss rate: 0.70%

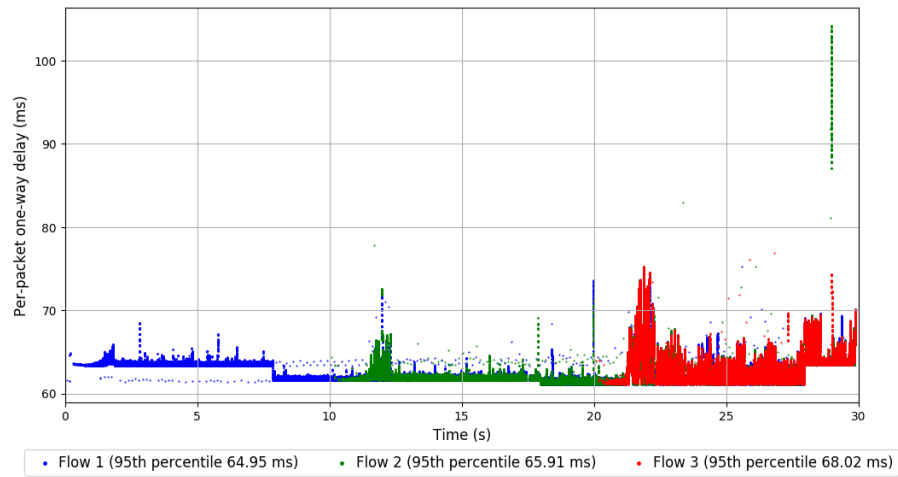
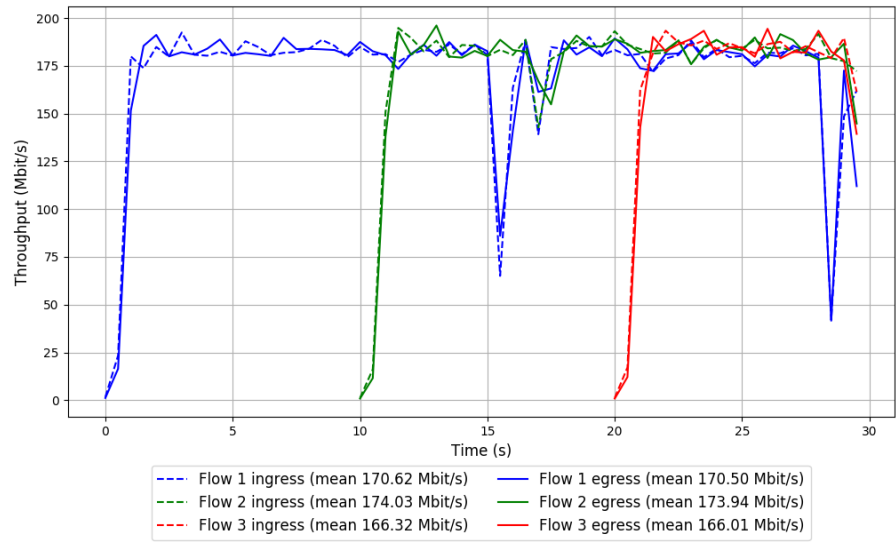
-- Flow 3:

Average throughput: 166.01 Mbit/s

95th percentile per-packet one-way delay: 68.019 ms

Loss rate: 1.48%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-27 00:34:59

End at: 2018-01-27 00:35:29

Below is generated by plot.py at 2018-01-27 04:41:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.98 Mbit/s

95th percentile per-packet one-way delay: 67.994 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 172.58 Mbit/s

95th percentile per-packet one-way delay: 66.624 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 173.59 Mbit/s

95th percentile per-packet one-way delay: 68.231 ms

Loss rate: 0.66%

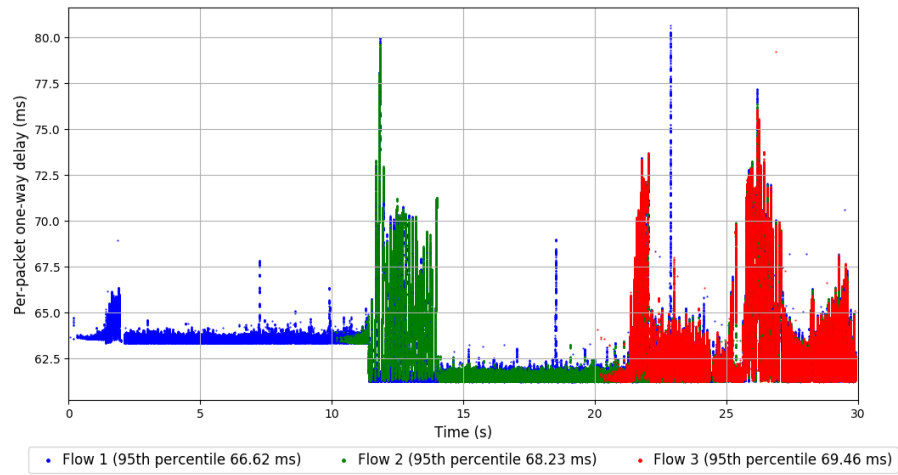
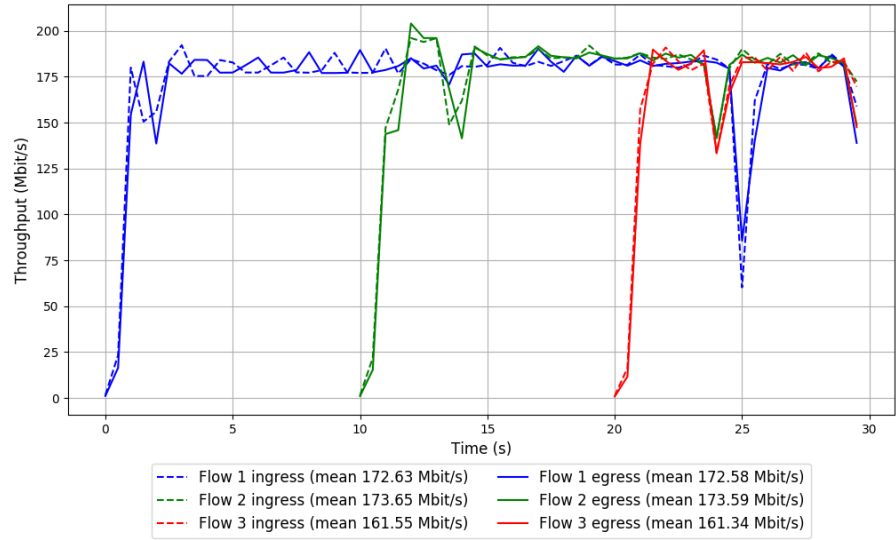
-- Flow 3:

Average throughput: 161.34 Mbit/s

95th percentile per-packet one-way delay: 69.459 ms

Loss rate: 1.40%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-27 00:49:47

End at: 2018-01-27 00:50:17

Below is generated by plot.py at 2018-01-27 04:41:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.76 Mbit/s

95th percentile per-packet one-way delay: 69.109 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 174.12 Mbit/s

95th percentile per-packet one-way delay: 68.008 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 170.99 Mbit/s

95th percentile per-packet one-way delay: 68.741 ms

Loss rate: 0.69%

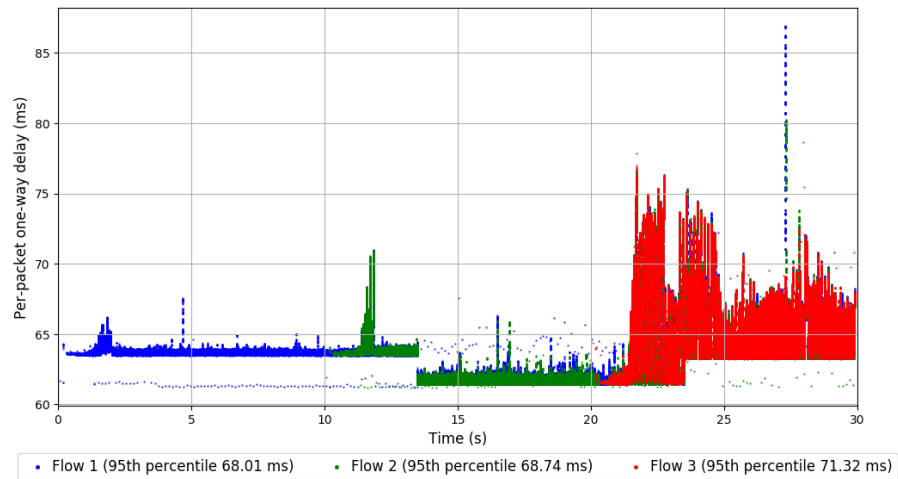
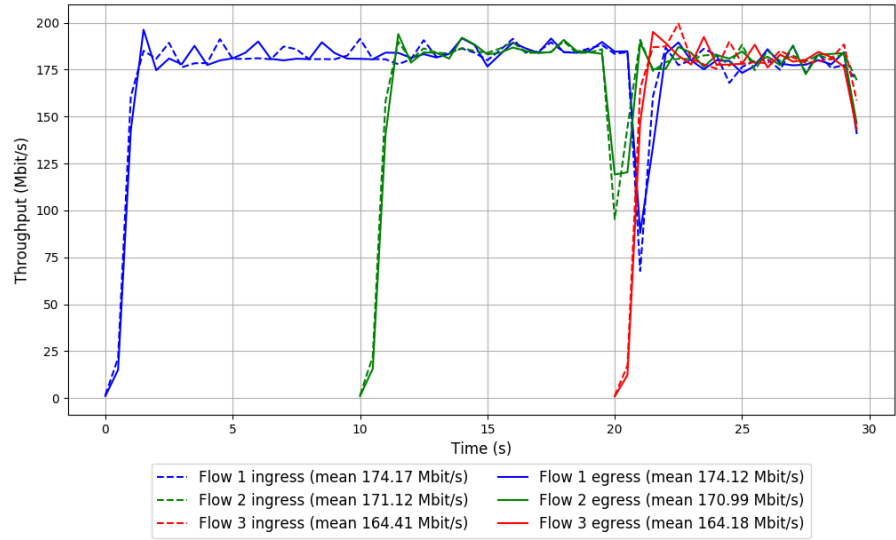
-- Flow 3:

Average throughput: 164.18 Mbit/s

95th percentile per-packet one-way delay: 71.316 ms

Loss rate: 1.41%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-27 01:04:40

End at: 2018-01-27 01:05:10

Below is generated by plot.py at 2018-01-27 04:41:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.50 Mbit/s

95th percentile per-packet one-way delay: 69.781 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 169.47 Mbit/s

95th percentile per-packet one-way delay: 68.499 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 167.62 Mbit/s

95th percentile per-packet one-way delay: 69.317 ms

Loss rate: 0.65%

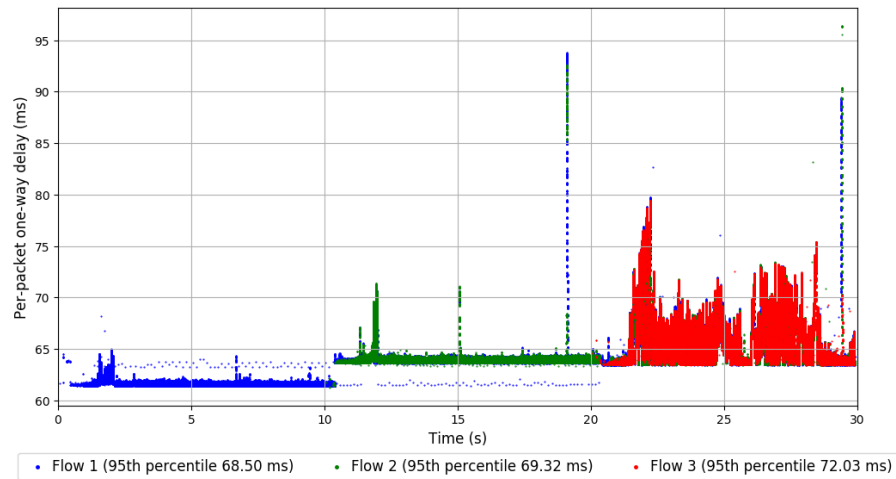
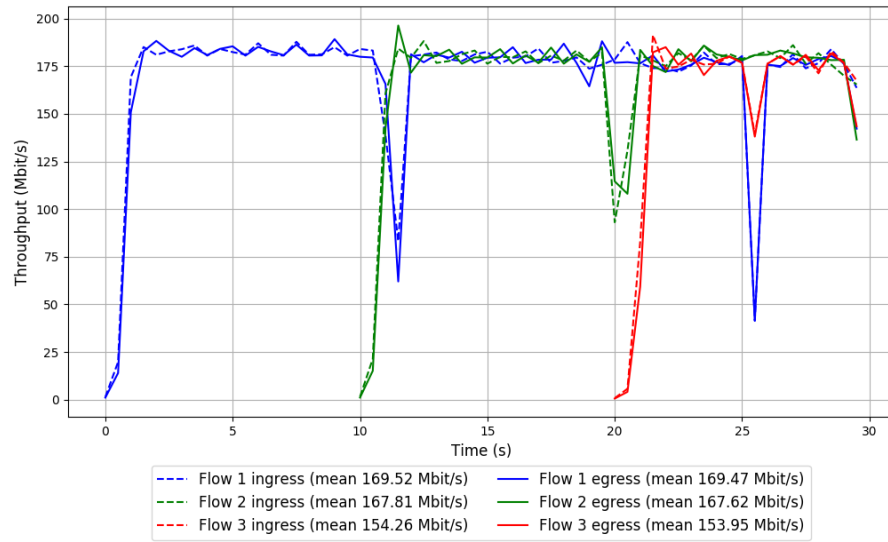
-- Flow 3:

Average throughput: 153.95 Mbit/s

95th percentile per-packet one-way delay: 72.029 ms

Loss rate: 1.55%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2018-01-27 01:19:31

Below is generated by plot.py at 2018-01-27 04:41:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.76 Mbit/s

95th percentile per-packet one-way delay: 68.014 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 173.97 Mbit/s

95th percentile per-packet one-way delay: 66.249 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 173.20 Mbit/s

95th percentile per-packet one-way delay: 66.824 ms

Loss rate: 0.00%

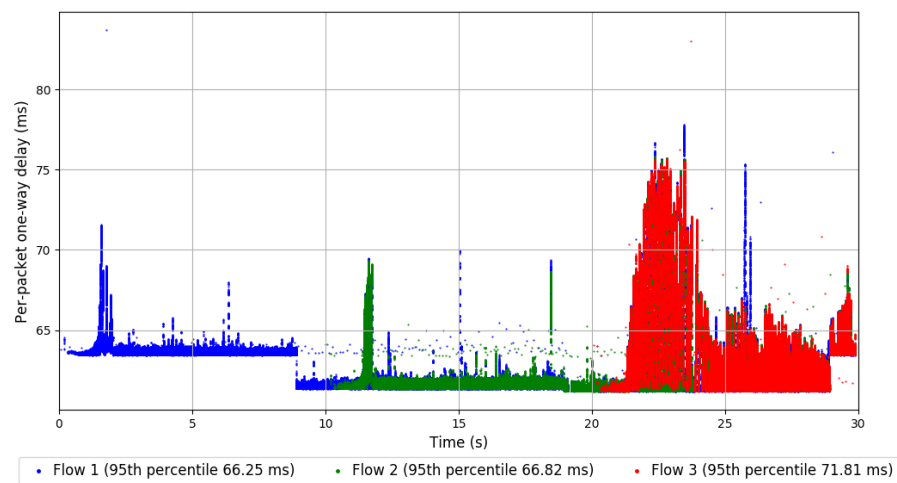
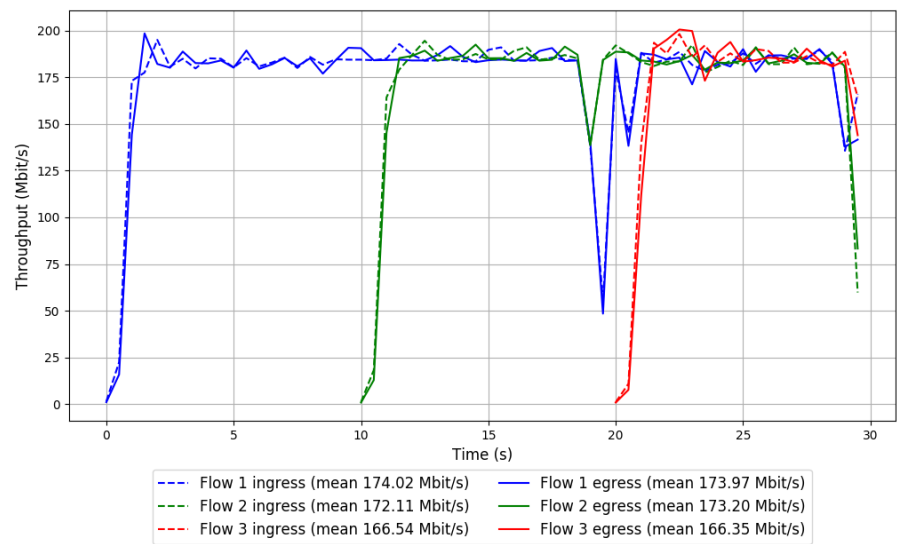
-- Flow 3:

Average throughput: 166.35 Mbit/s

95th percentile per-packet one-way delay: 71.810 ms

Loss rate: 1.39%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-27 01:33:40

End at: 2018-01-27 01:34:10

Below is generated by plot.py at 2018-01-27 04:47:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.00 Mbit/s

95th percentile per-packet one-way delay: 69.025 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 173.84 Mbit/s

95th percentile per-packet one-way delay: 66.400 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 170.62 Mbit/s

95th percentile per-packet one-way delay: 67.778 ms

Loss rate: 0.64%

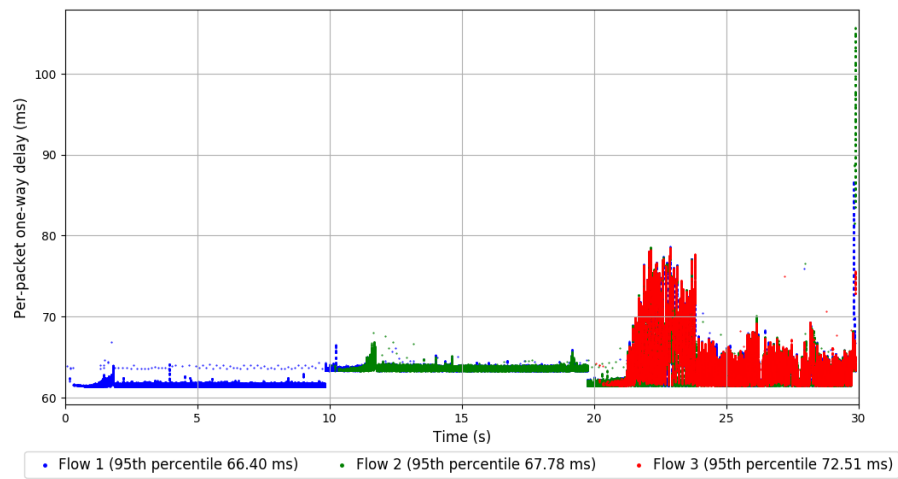
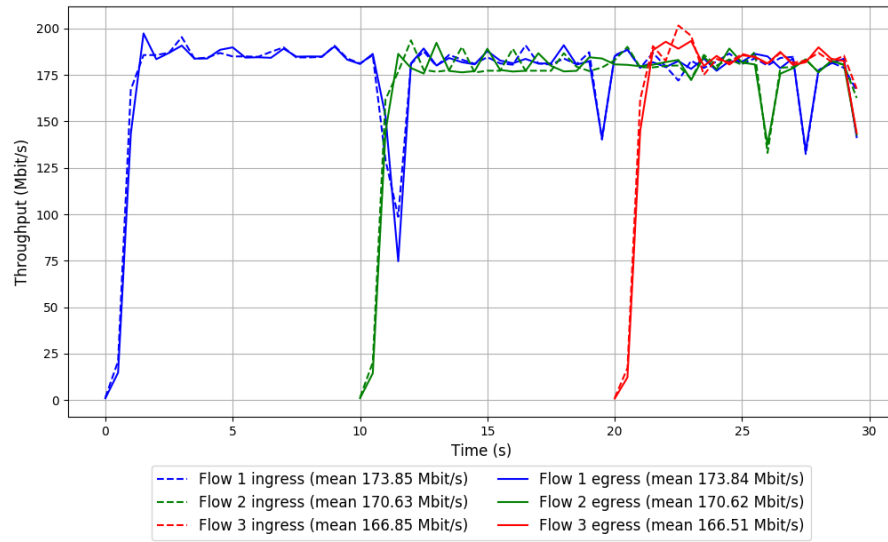
-- Flow 3:

Average throughput: 166.51 Mbit/s

95th percentile per-packet one-way delay: 72.509 ms

Loss rate: 1.44%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-27 01:48:32

End at: 2018-01-27 01:49:02

Below is generated by plot.py at 2018-01-27 04:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.33 Mbit/s

95th percentile per-packet one-way delay: 73.826 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 171.84 Mbit/s

95th percentile per-packet one-way delay: 73.219 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 167.22 Mbit/s

95th percentile per-packet one-way delay: 73.486 ms

Loss rate: 0.72%

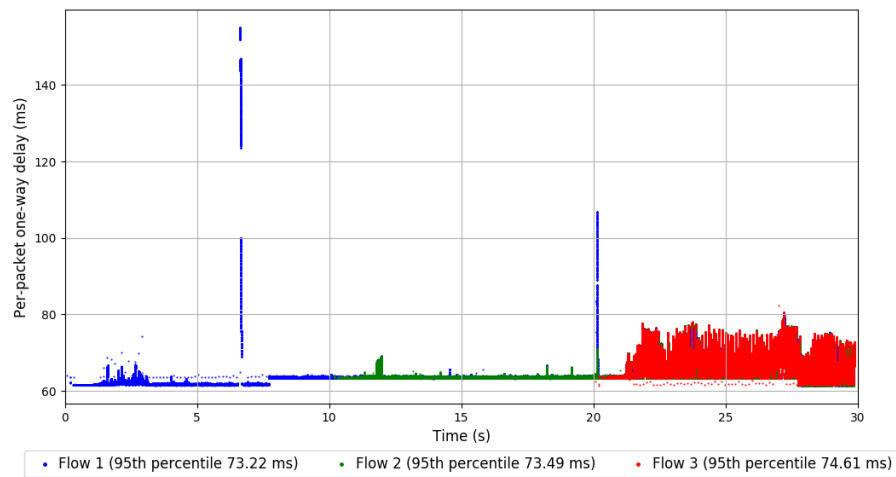
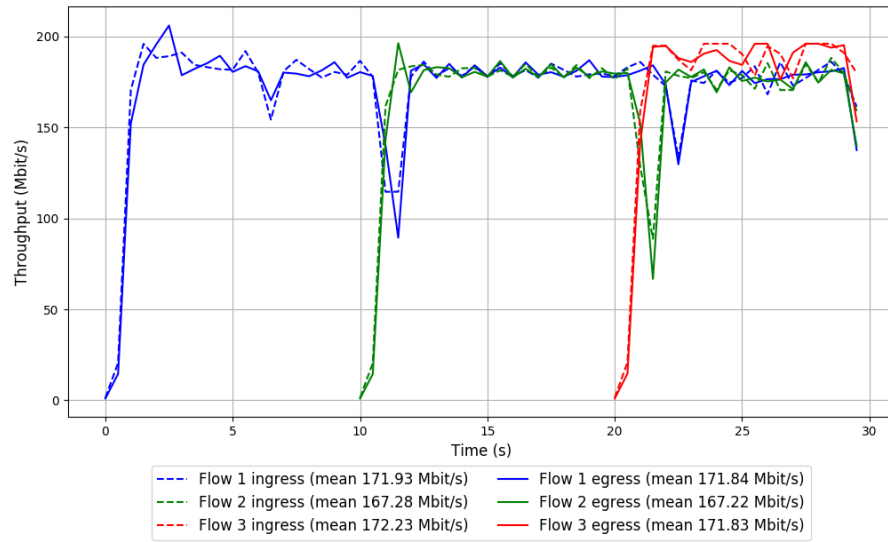
-- Flow 3:

Average throughput: 171.83 Mbit/s

95th percentile per-packet one-way delay: 74.610 ms

Loss rate: 1.43%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 23:37:15

End at: 2018-01-26 23:37:45

Below is generated by plot.py at 2018-01-27 04:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.05 Mbit/s

95th percentile per-packet one-way delay: 70.164 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 122.90 Mbit/s

95th percentile per-packet one-way delay: 70.339 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 106.10 Mbit/s

95th percentile per-packet one-way delay: 70.192 ms

Loss rate: 0.69%

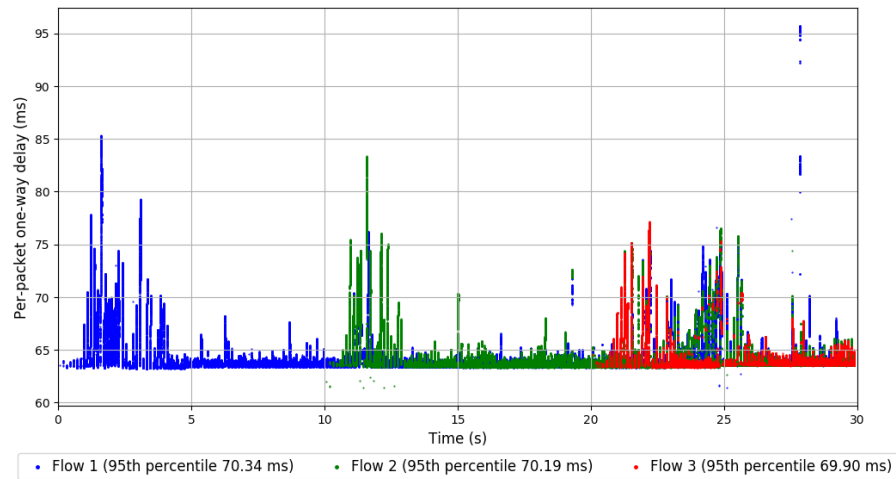
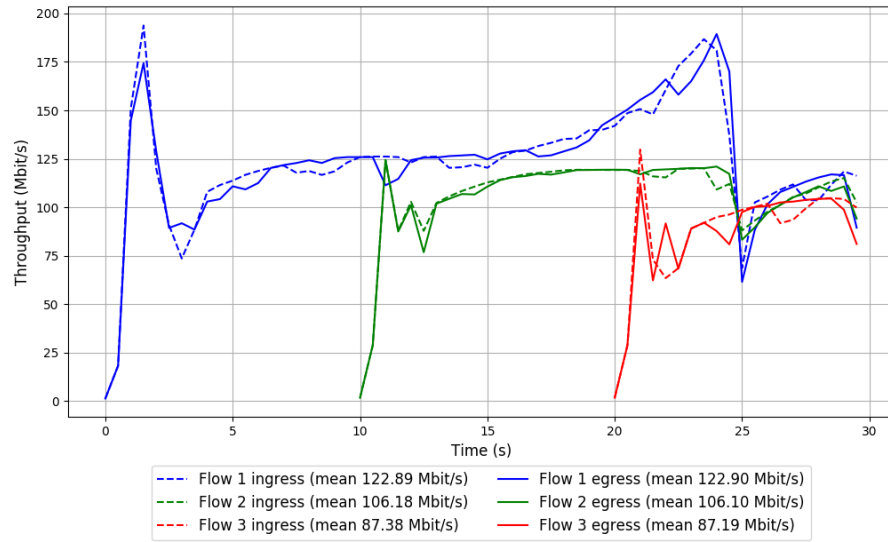
-- Flow 3:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 69.896 ms

Loss rate: 1.48%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 23:52:01

End at: 2018-01-26 23:52:31

Below is generated by plot.py at 2018-01-27 04:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.68 Mbit/s

95th percentile per-packet one-way delay: 72.188 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 110.16 Mbit/s

95th percentile per-packet one-way delay: 69.825 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 72.326 ms

Loss rate: 0.70%

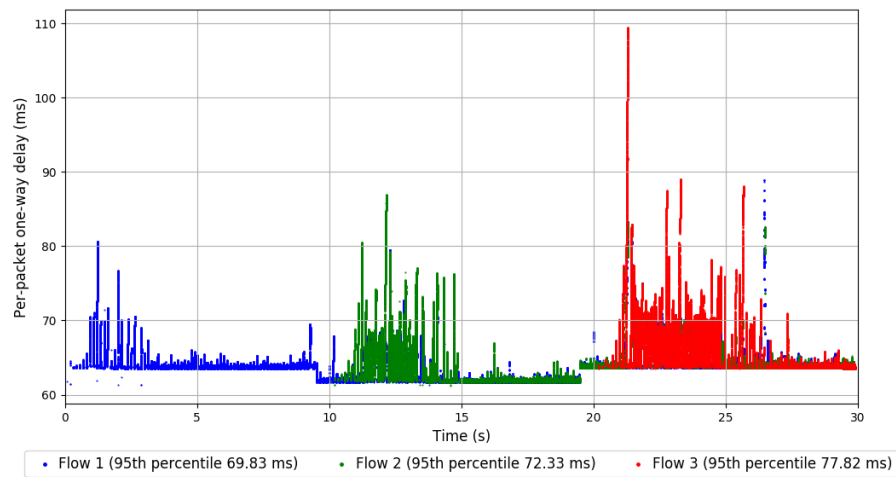
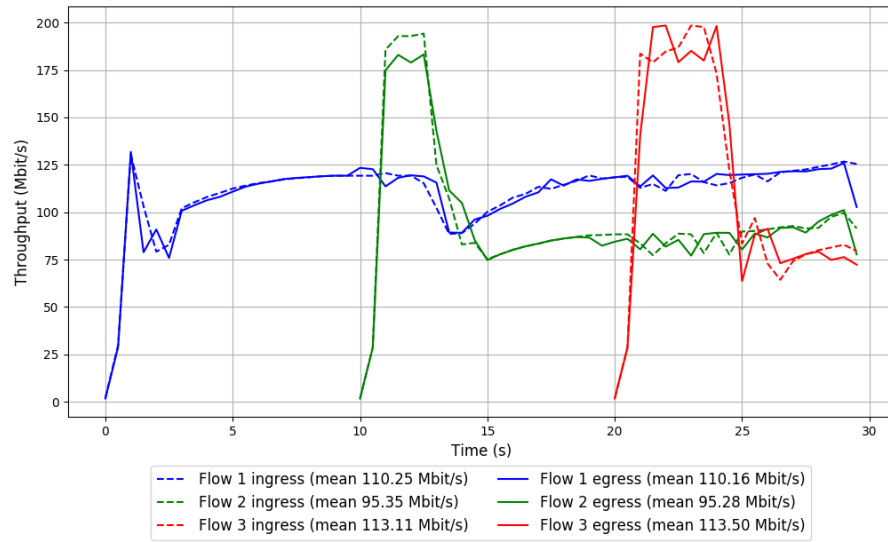
-- Flow 3:

Average throughput: 113.50 Mbit/s

95th percentile per-packet one-way delay: 77.819 ms

Loss rate: 0.94%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-27 00:06:32

End at: 2018-01-27 00:07:02

Below is generated by plot.py at 2018-01-27 04:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.84 Mbit/s

95th percentile per-packet one-way delay: 69.251 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 68.044 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 67.25 Mbit/s

95th percentile per-packet one-way delay: 66.645 ms

Loss rate: 0.96%

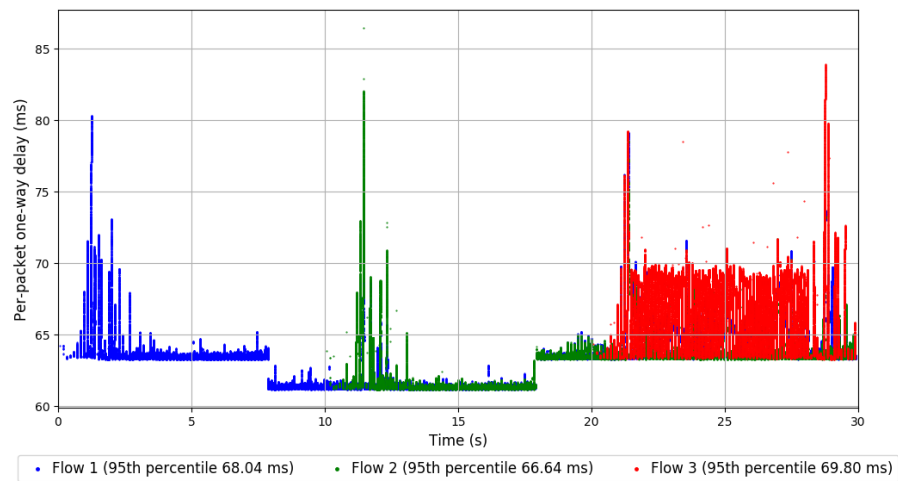
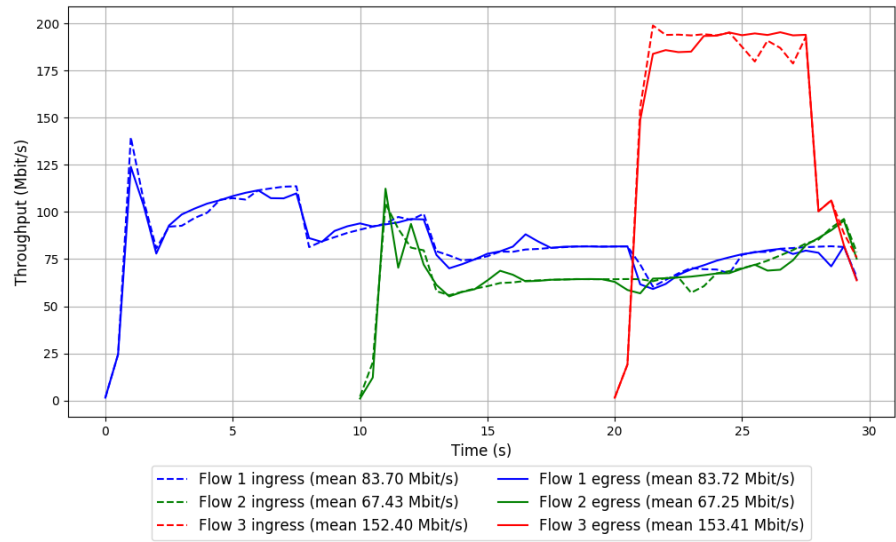
-- Flow 3:

Average throughput: 153.41 Mbit/s

95th percentile per-packet one-way delay: 69.798 ms

Loss rate: 0.61%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-27 00:21:13

End at: 2018-01-27 00:21:43

Below is generated by plot.py at 2018-01-27 04:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.49 Mbit/s

95th percentile per-packet one-way delay: 73.390 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 88.50 Mbit/s

95th percentile per-packet one-way delay: 68.742 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 145.88 Mbit/s

95th percentile per-packet one-way delay: 76.157 ms

Loss rate: 0.39%

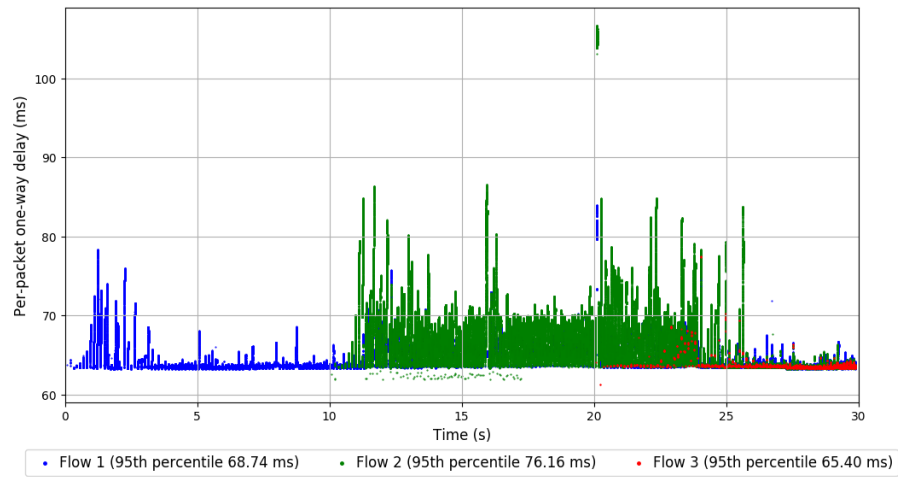
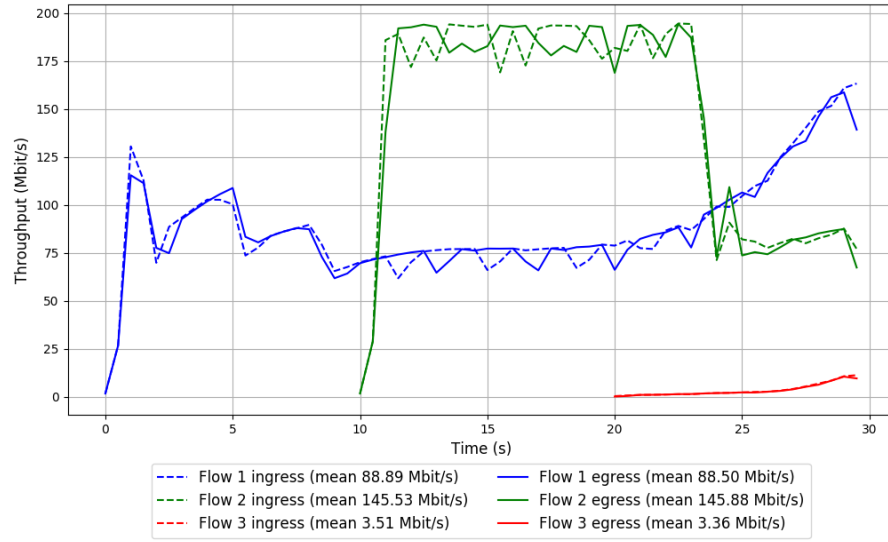
-- Flow 3:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 65.400 ms

Loss rate: 5.42%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-27 00:35:59

End at: 2018-01-27 00:36:29

Below is generated by plot.py at 2018-01-27 04:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.81 Mbit/s

95th percentile per-packet one-way delay: 73.265 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 69.925 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 131.95 Mbit/s

95th percentile per-packet one-way delay: 72.701 ms

Loss rate: 0.44%

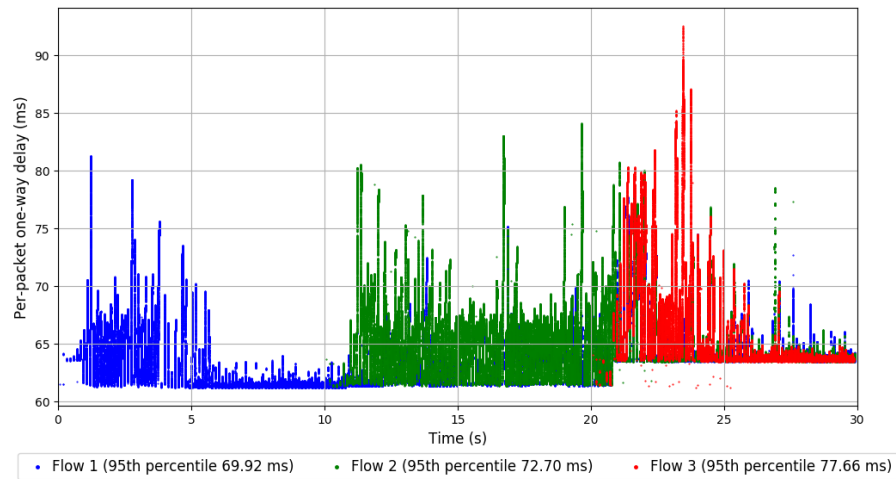
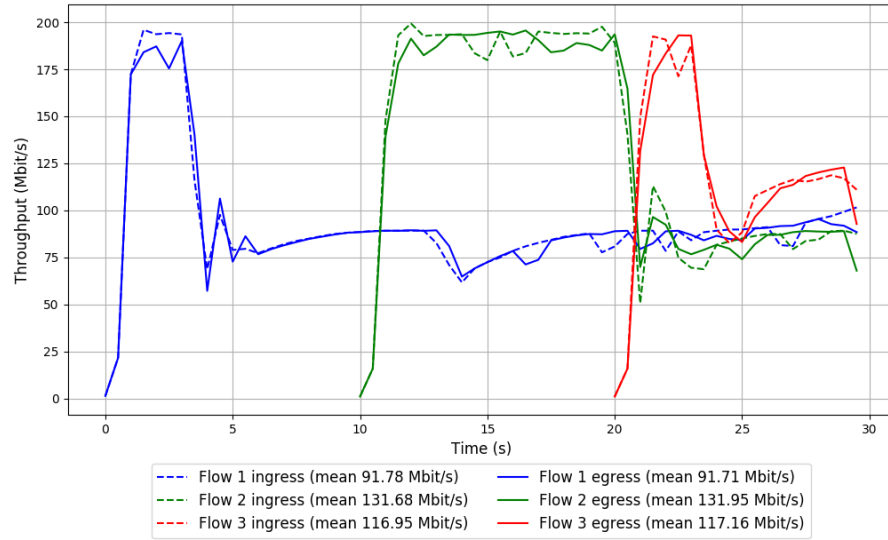
-- Flow 3:

Average throughput: 117.16 Mbit/s

95th percentile per-packet one-way delay: 77.660 ms

Loss rate: 1.35%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-27 00:50:48

End at: 2018-01-27 00:51:18

Below is generated by plot.py at 2018-01-27 04:47:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.68 Mbit/s

95th percentile per-packet one-way delay: 71.802 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 115.37 Mbit/s

95th percentile per-packet one-way delay: 72.493 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 118.92 Mbit/s

95th percentile per-packet one-way delay: 70.504 ms

Loss rate: 0.79%

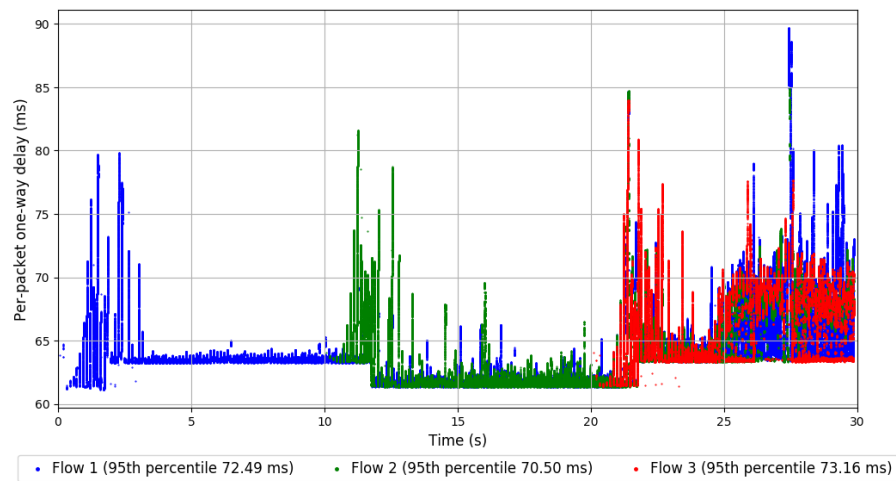
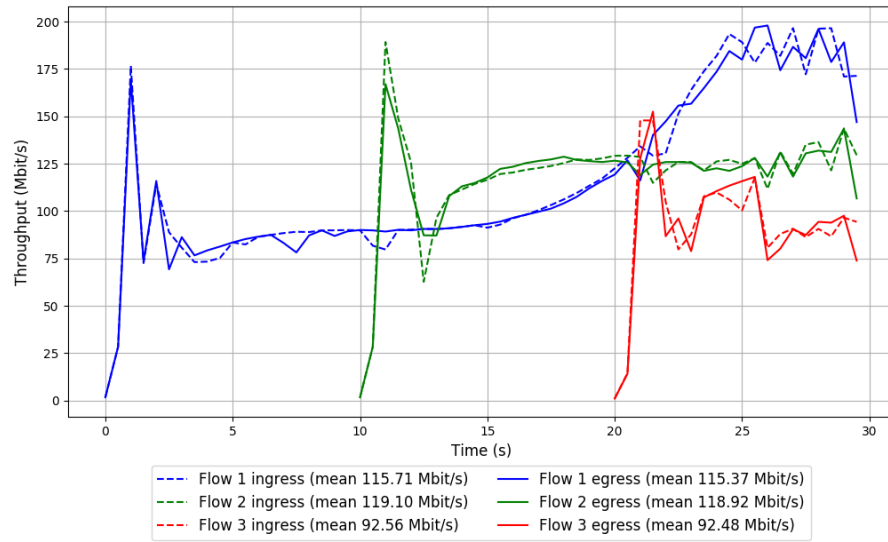
-- Flow 3:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 73.156 ms

Loss rate: 1.35%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-27 01:05:39

End at: 2018-01-27 01:06:09

Below is generated by plot.py at 2018-01-27 04:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.41 Mbit/s

95th percentile per-packet one-way delay: 69.440 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 116.76 Mbit/s

95th percentile per-packet one-way delay: 69.829 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 127.33 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 0.75%

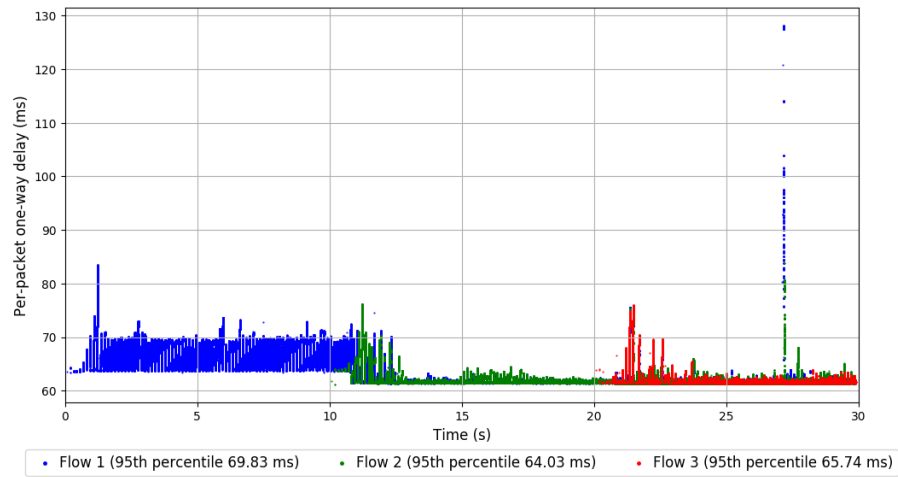
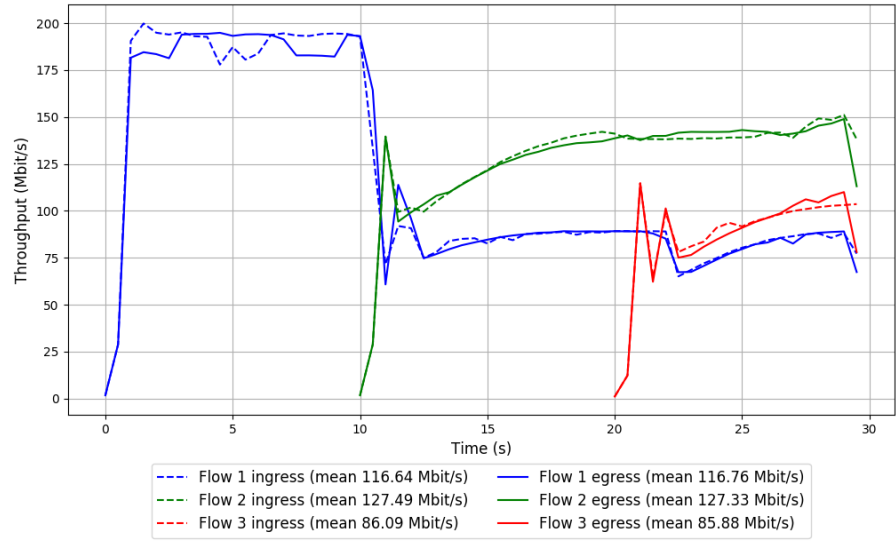
-- Flow 3:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 65.741 ms

Loss rate: 1.52%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

End at: 2018-01-27 01:20:31

Below is generated by plot.py at 2018-01-27 04:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.12 Mbit/s

95th percentile per-packet one-way delay: 72.047 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 72.006 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 108.99 Mbit/s

95th percentile per-packet one-way delay: 72.132 ms

Loss rate: 0.53%

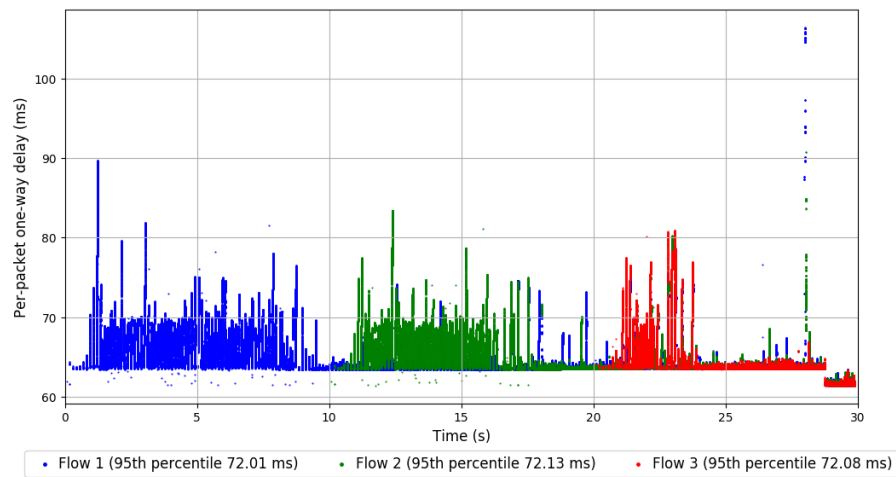
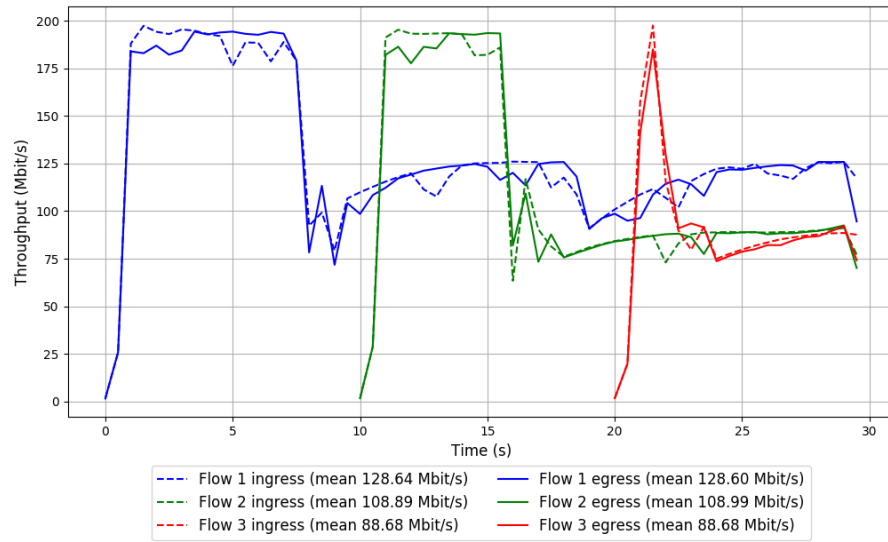
-- Flow 3:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 72.084 ms

Loss rate: 1.26%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-27 01:34:41

End at: 2018-01-27 01:35:11

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.74 Mbit/s

95th percentile per-packet one-way delay: 72.033 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 123.33 Mbit/s

95th percentile per-packet one-way delay: 70.591 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 149.08 Mbit/s

95th percentile per-packet one-way delay: 73.072 ms

Loss rate: 0.33%

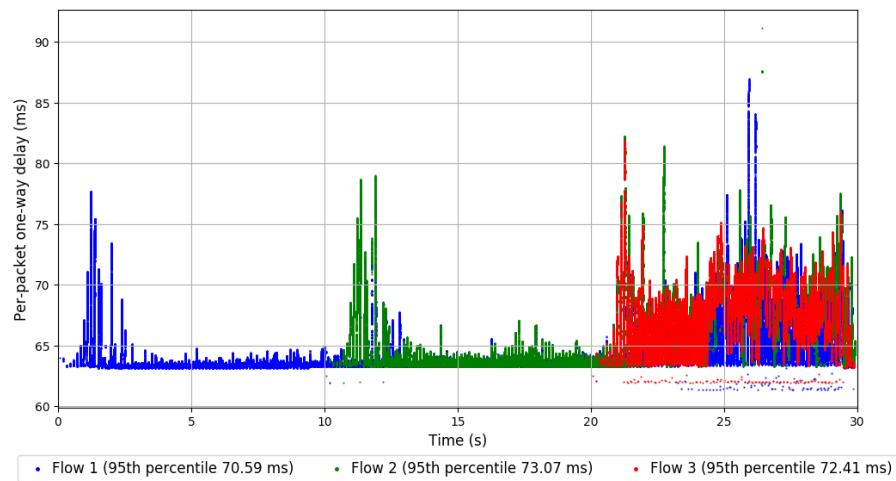
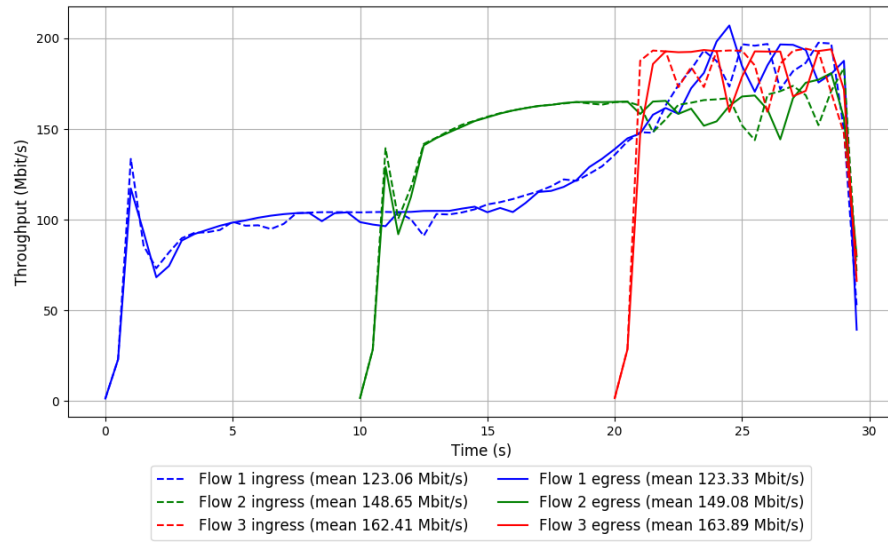
-- Flow 3:

Average throughput: 163.89 Mbit/s

95th percentile per-packet one-way delay: 72.414 ms

Loss rate: 0.37%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-27 01:49:32

End at: 2018-01-27 01:50:02

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.13 Mbit/s

95th percentile per-packet one-way delay: 69.578 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 75.26 Mbit/s

95th percentile per-packet one-way delay: 66.825 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 183.87 Mbit/s

95th percentile per-packet one-way delay: 69.953 ms

Loss rate: 0.66%

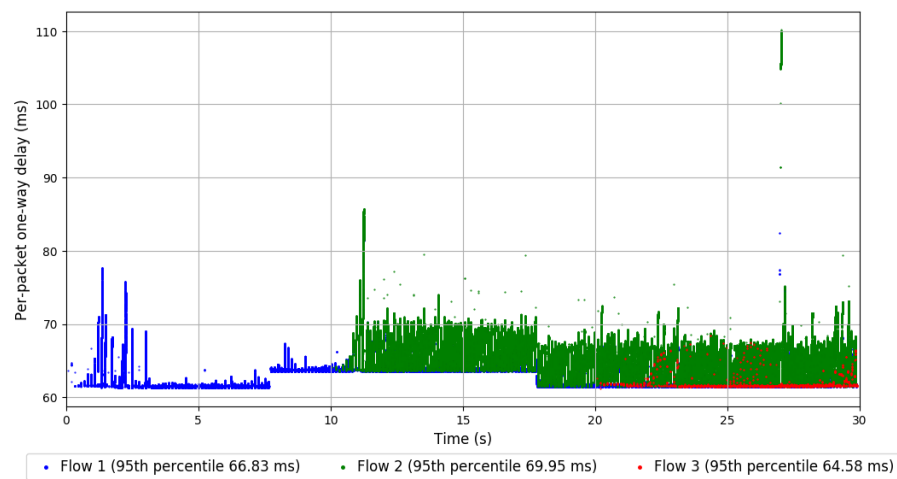
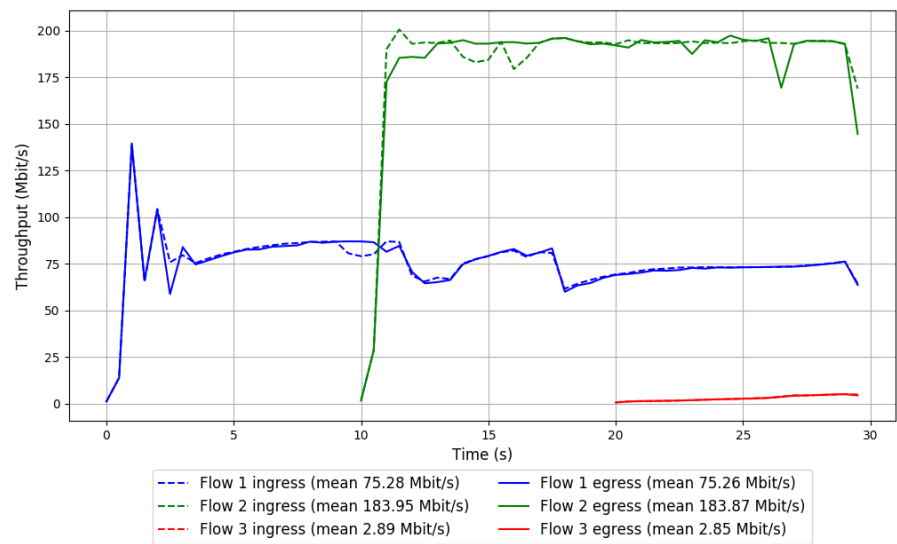
-- Flow 3:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 64.576 ms

Loss rate: 2.55%

Run 10: Report of TCP Cubic — Data Link

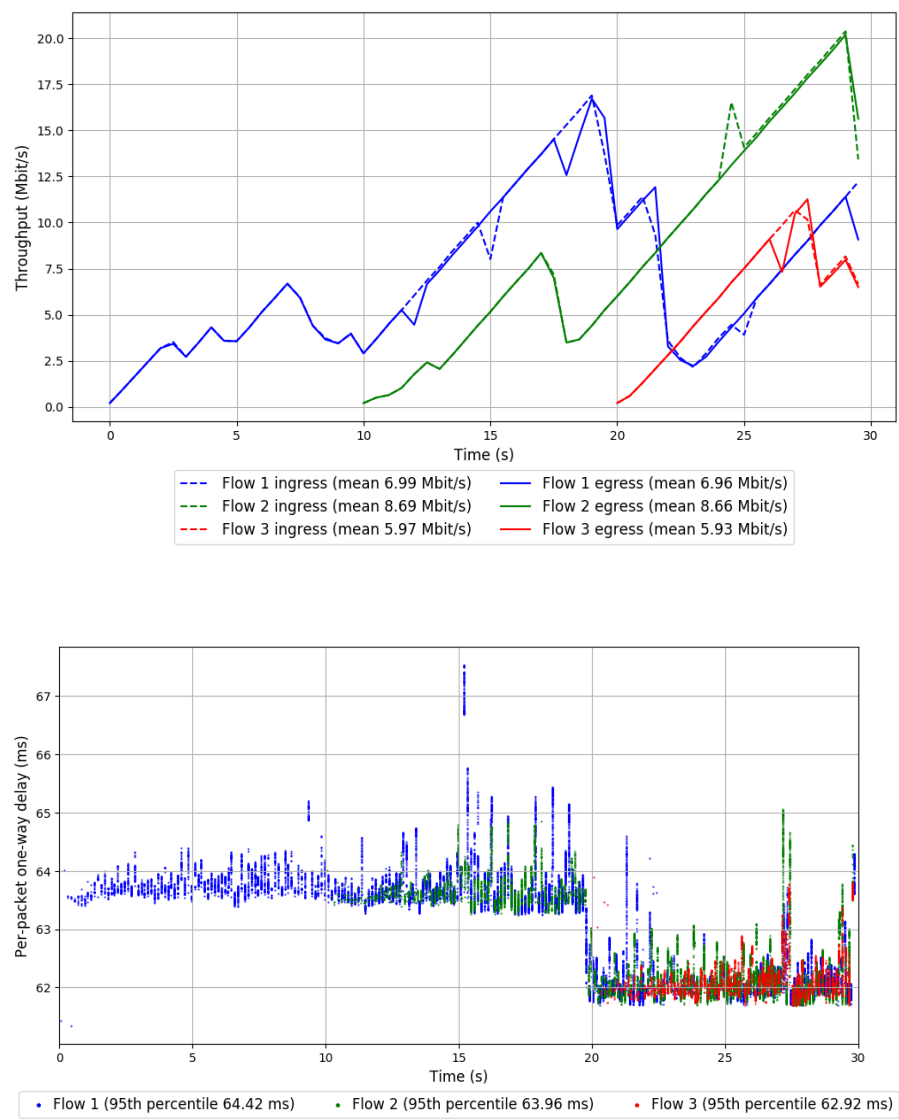


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 23:45:20
End at: 2018-01-26 23:45:50

# Below is generated by plot.py at 2018-01-27 04:49:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 64.179 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 64.416 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 63.961 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 62.919 ms
Loss rate: 1.94%
```


Run 1: Report of LEDBAT — Data Link

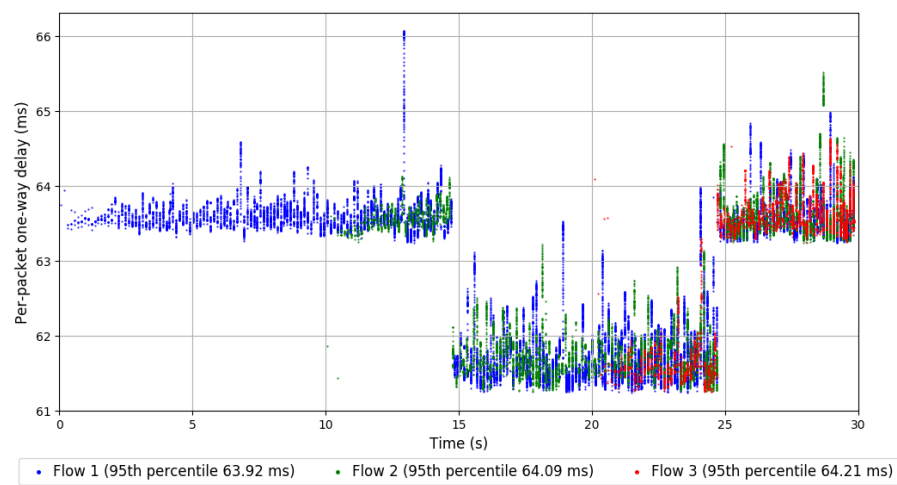
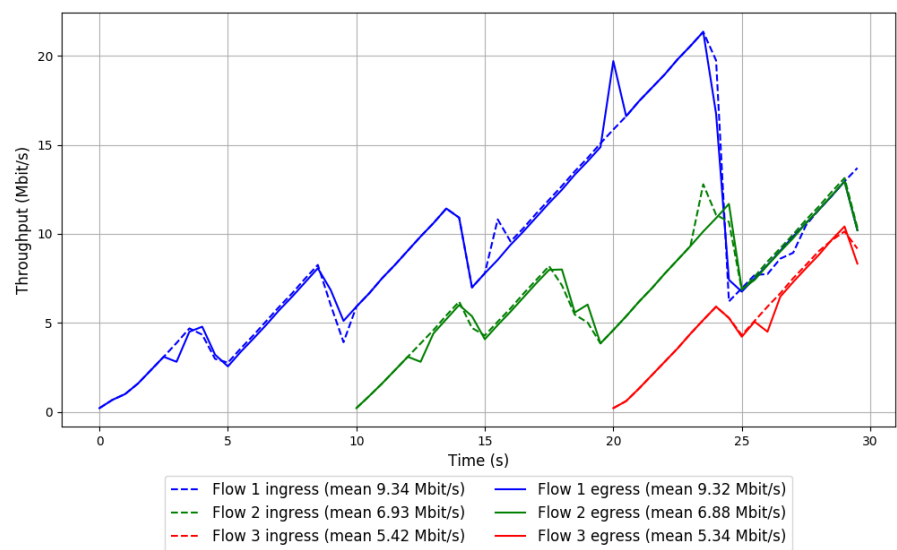


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 23:59:45
End at: 2018-01-27 00:00:15

# Below is generated by plot.py at 2018-01-27 04:49:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 64.007 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 63.920 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 64.094 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 64.211 ms
Loss rate: 2.70%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-27 00:14:33

End at: 2018-01-27 00:15:03

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 64.172 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 10.44 Mbit/s

95th percentile per-packet one-way delay: 64.210 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 64.124 ms

Loss rate: 0.91%

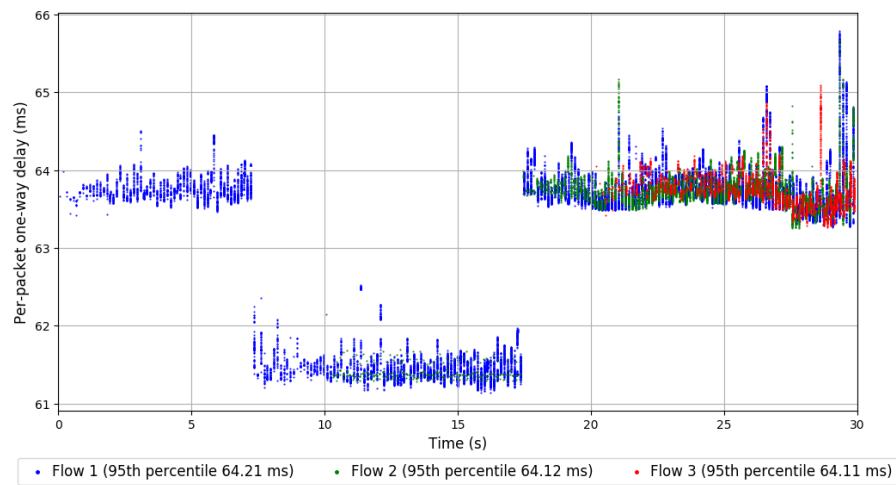
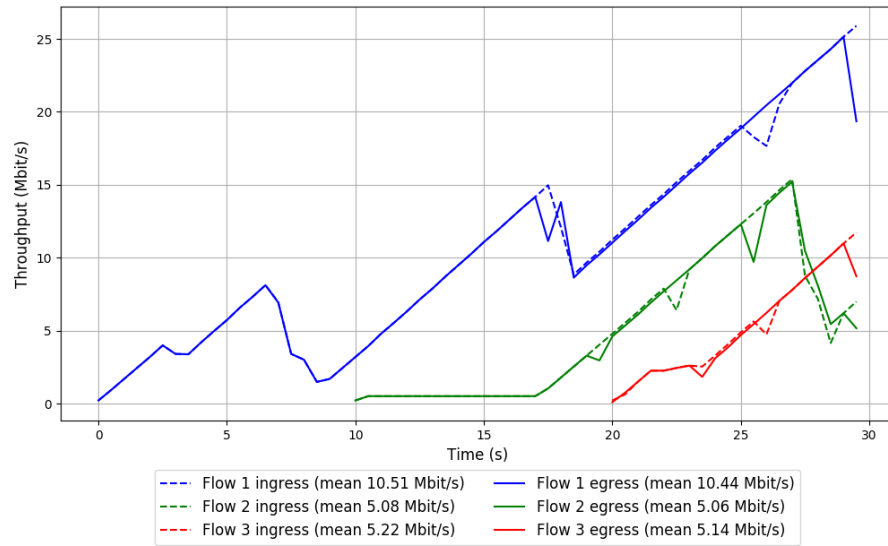
-- Flow 3:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 64.115 ms

Loss rate: 2.92%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-27 00:29:13

End at: 2018-01-27 00:29:43

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.11 Mbit/s

95th percentile per-packet one-way delay: 64.333 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 64.356 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 64.406 ms

Loss rate: 0.87%

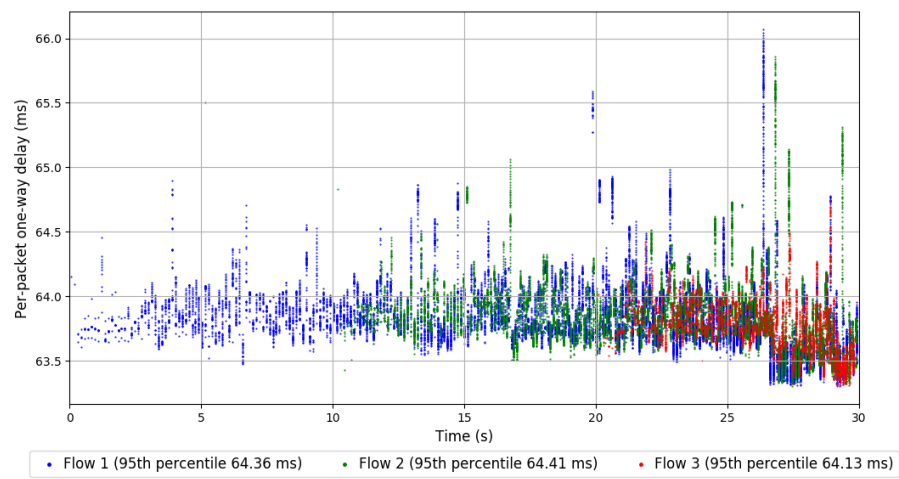
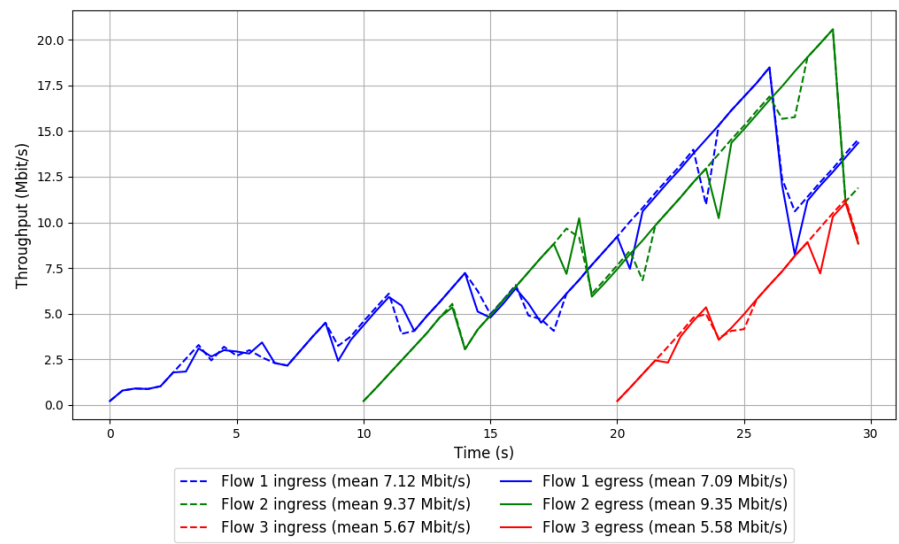
-- Flow 3:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 64.128 ms

Loss rate: 2.74%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-27 00:44:08

End at: 2018-01-27 00:44:38

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.87 Mbit/s

95th percentile per-packet one-way delay: 64.306 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 64.208 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.376 ms

Loss rate: 1.23%

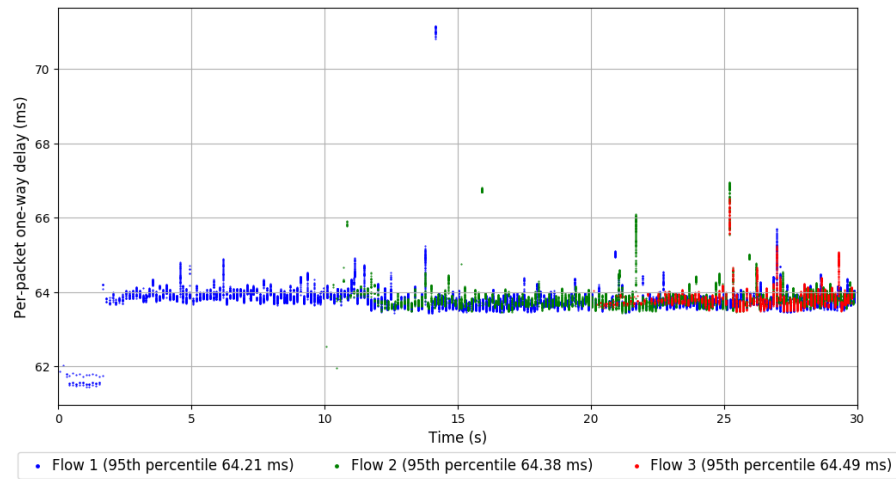
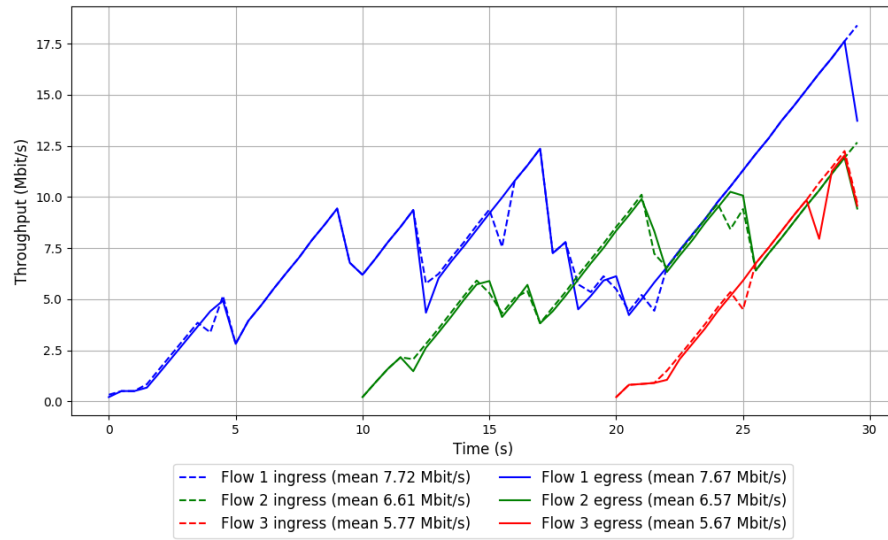
-- Flow 3:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 64.488 ms

Loss rate: 2.90%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-27 00:58:53

End at: 2018-01-27 00:59:23

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 64.148 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 64.303 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 63.993 ms

Loss rate: 1.06%

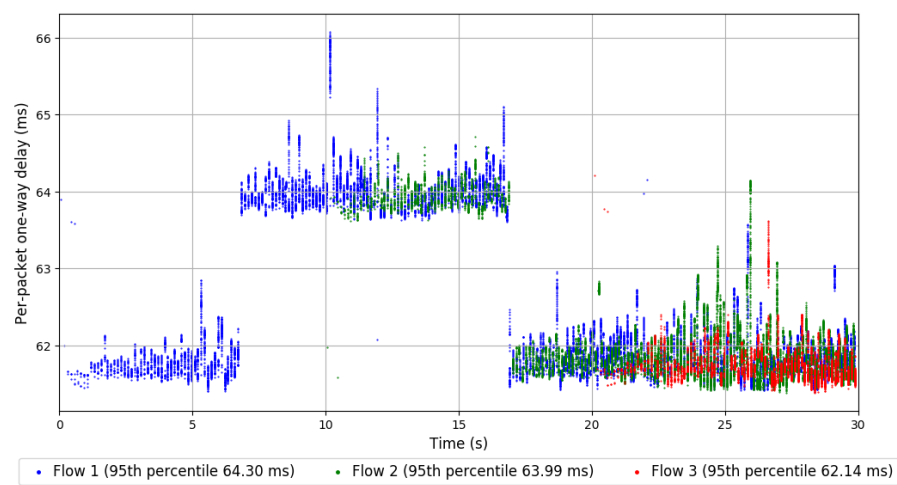
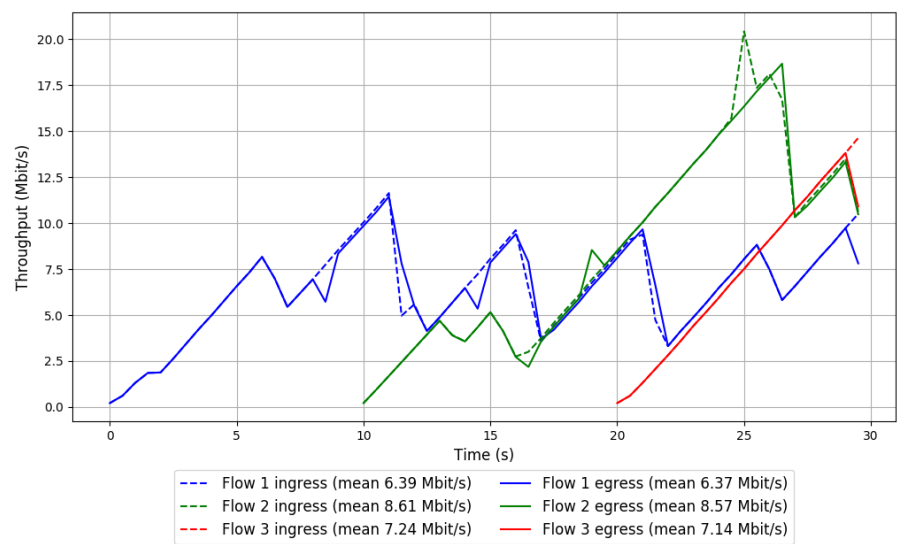
-- Flow 3:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 62.136 ms

Loss rate: 2.60%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-27 01:13:37

End at: 2018-01-27 01:14:07

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.39 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 64.039 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 62.757 ms

Loss rate: 0.82%

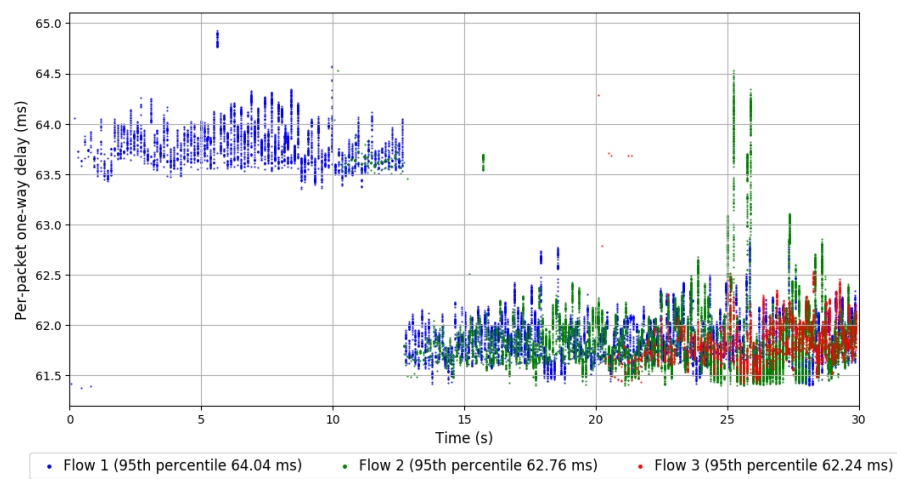
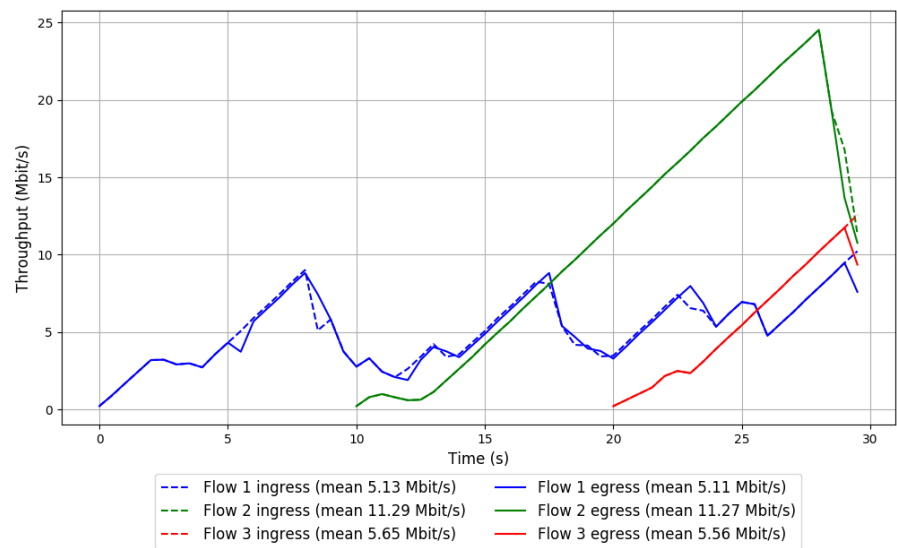
-- Flow 3:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 62.237 ms

Loss rate: 2.87%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-27 01:28:02

End at: 2018-01-27 01:28:32

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.31 Mbit/s

95th percentile per-packet one-way delay: 64.428 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 64.507 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 64.387 ms

Loss rate: 0.49%

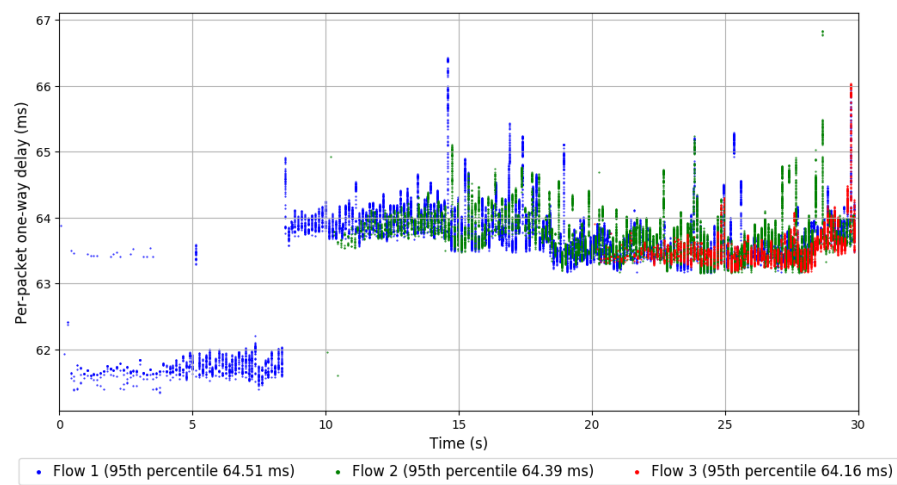
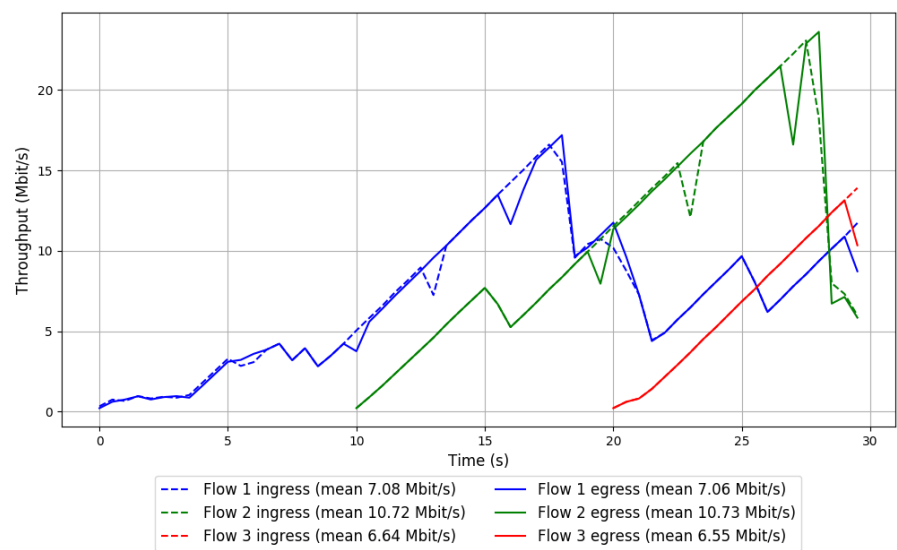
-- Flow 3:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.160 ms

Loss rate: 2.71%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-27 01:42:45

End at: 2018-01-27 01:43:15

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.99 Mbit/s

95th percentile per-packet one-way delay: 62.990 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 5.99 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 14.48 Mbit/s

95th percentile per-packet one-way delay: 62.632 ms

Loss rate: 1.29%

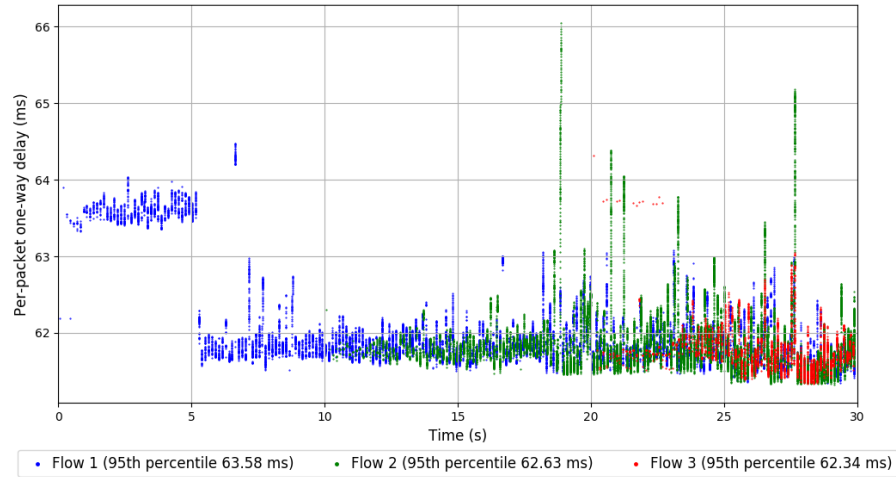
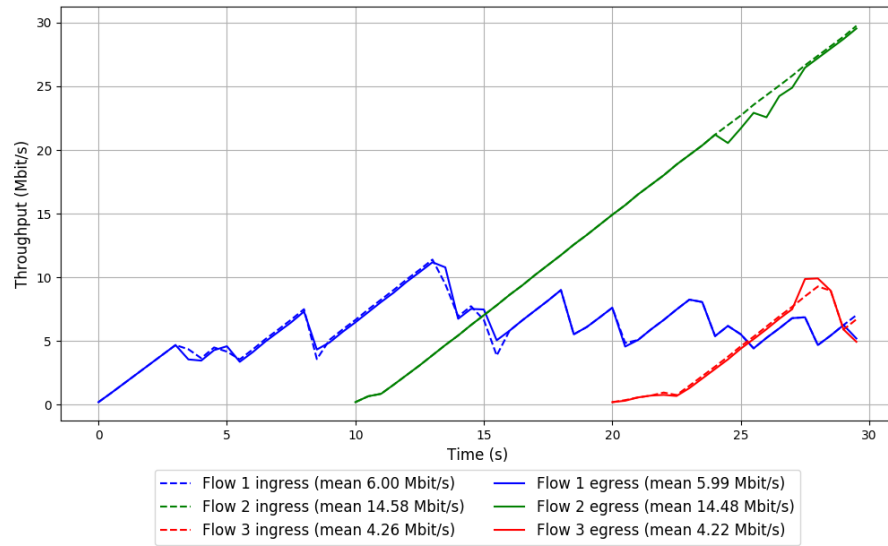
-- Flow 3:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 62.341 ms

Loss rate: 2.14%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-27 01:57:33

End at: 2018-01-27 01:58:03

Below is generated by plot.py at 2018-01-27 04:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.08 Mbit/s

95th percentile per-packet one-way delay: 64.134 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 64.084 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 64.189 ms

Loss rate: 0.79%

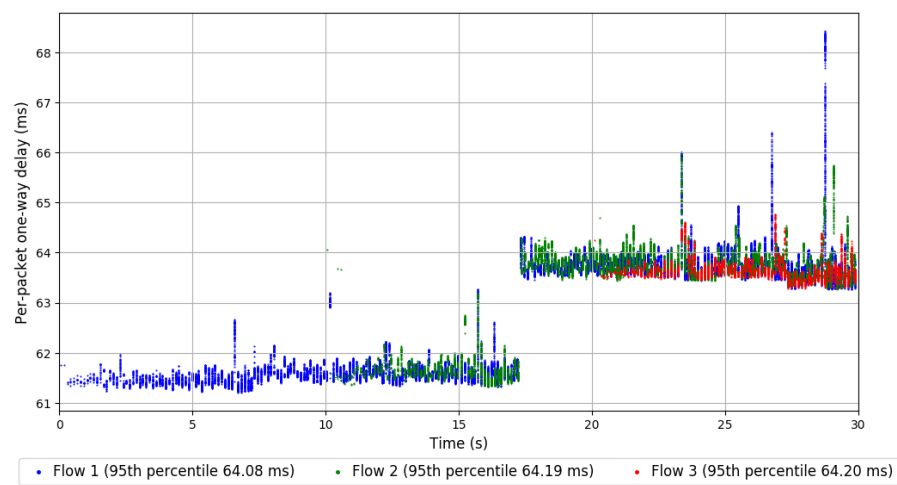
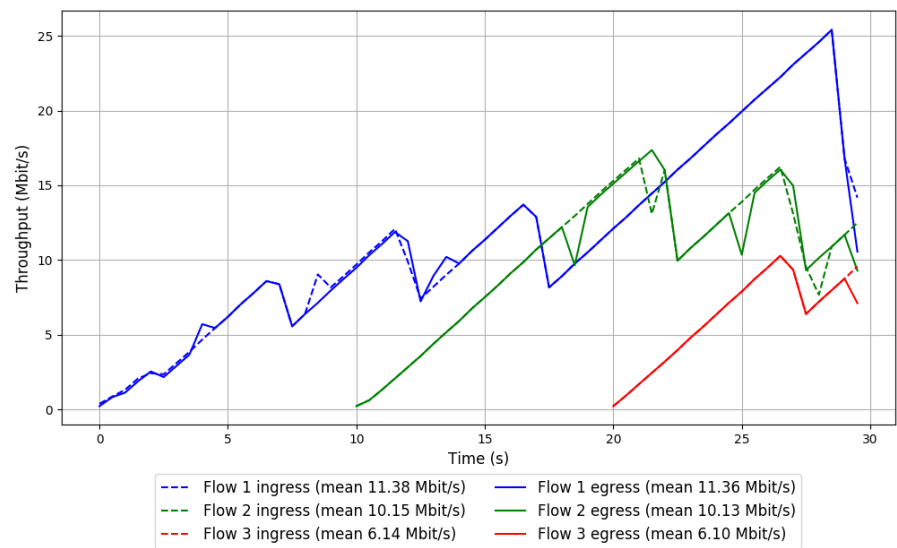
-- Flow 3:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 64.203 ms

Loss rate: 2.02%

Run 10: Report of LEDBAT — Data Link

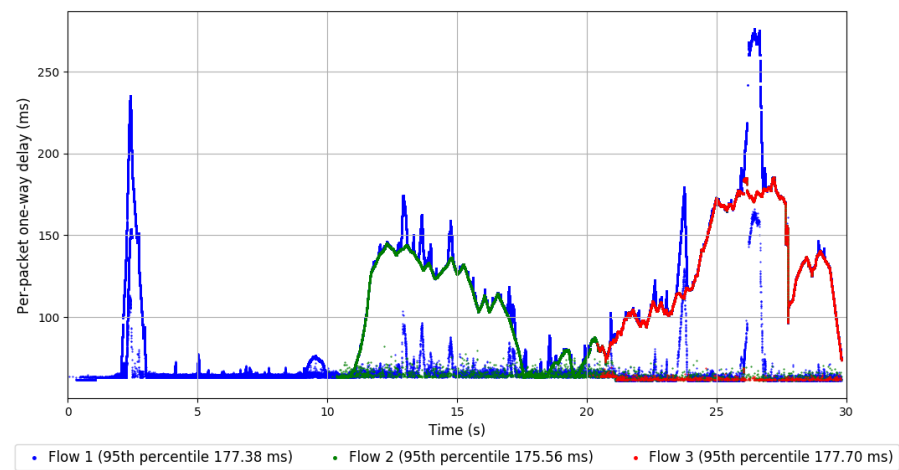
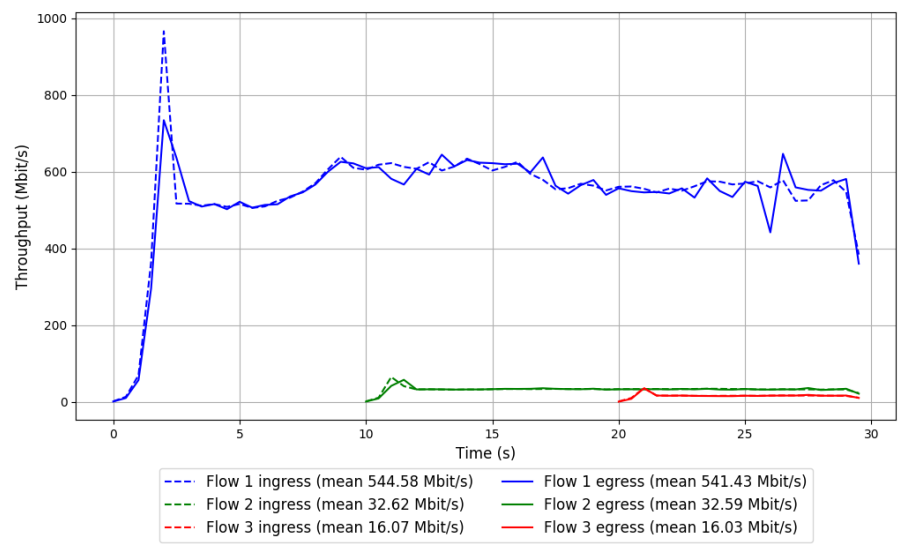


```
Run 1: Statistics of PCC

Start at: 2018-01-26 23:43:09
End at: 2018-01-26 23:43:39

# Below is generated by plot.py at 2018-01-27 04:56:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 568.28 Mbit/s
95th percentile per-packet one-way delay: 177.314 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 541.43 Mbit/s
95th percentile per-packet one-way delay: 177.379 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 175.561 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 177.698 ms
Loss rate: 1.54%
```

Run 1: Report of PCC — Data Link

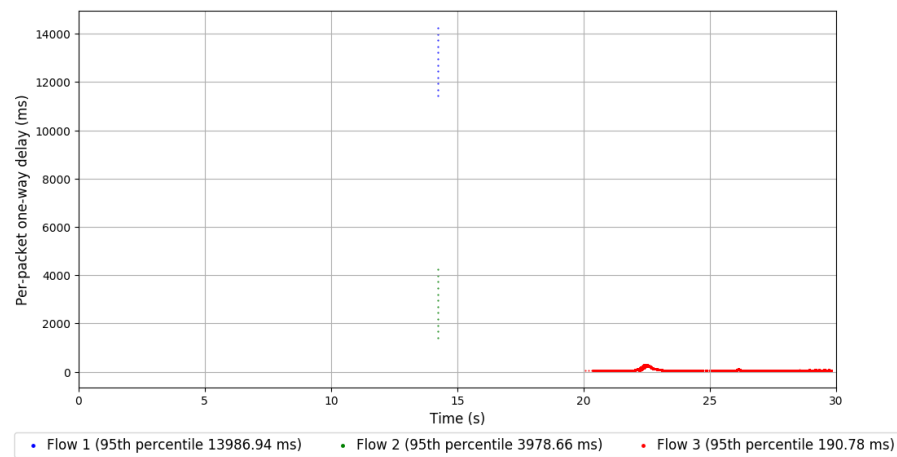
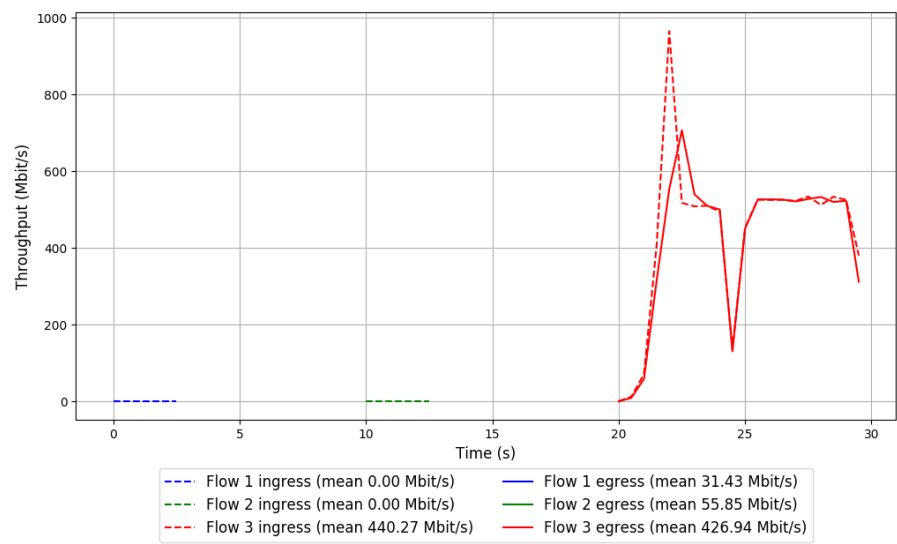


Run 2: Statistics of PCC

Start at: 2018-01-26 23:57:55

End at: 2018-01-26 23:58:25

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-27 00:12:22

End at: 2018-01-27 00:12:52

Below is generated by plot.py at 2018-01-27 04:57:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 566.26 Mbit/s

95th percentile per-packet one-way delay: 186.967 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 533.90 Mbit/s

95th percentile per-packet one-way delay: 187.111 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 185.699 ms

Loss rate: 2.36%

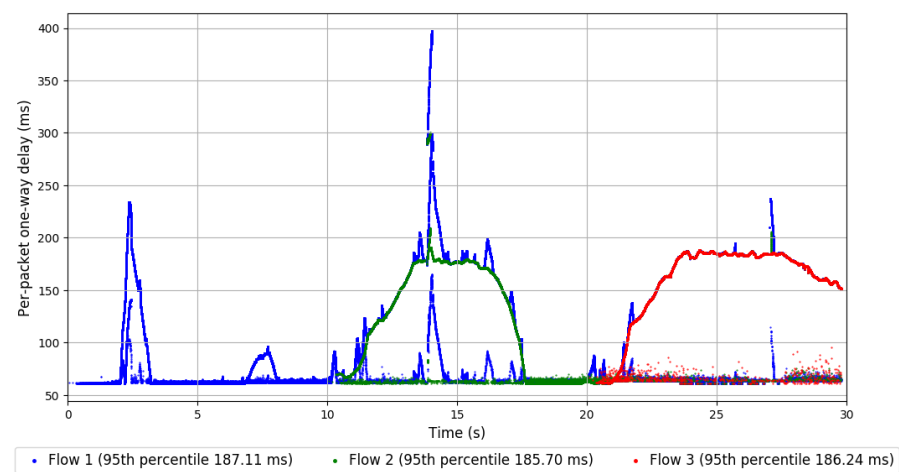
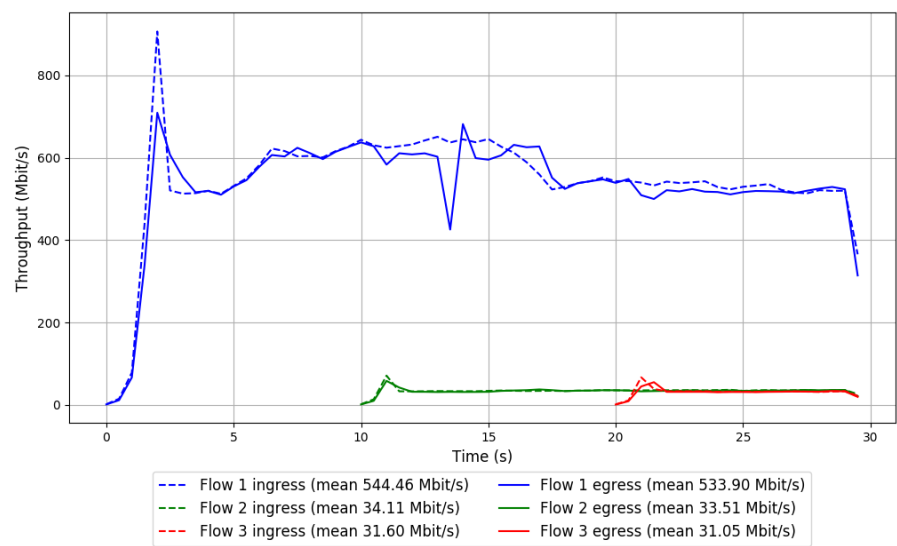
-- Flow 3:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 186.244 ms

Loss rate: 3.01%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-27 00:27:05

End at: 2018-01-27 00:27:35

Below is generated by plot.py at 2018-01-27 04:57:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 568.04 Mbit/s

95th percentile per-packet one-way delay: 181.541 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 522.01 Mbit/s

95th percentile per-packet one-way delay: 182.648 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 178.573 ms

Loss rate: 2.02%

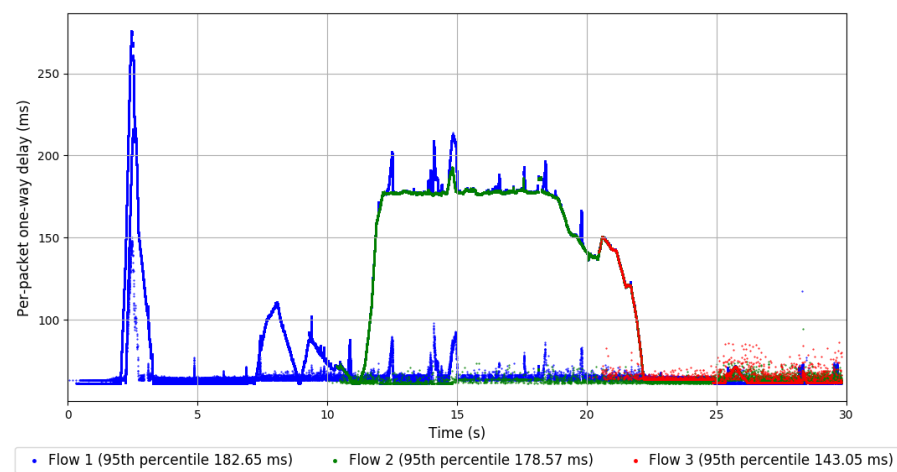
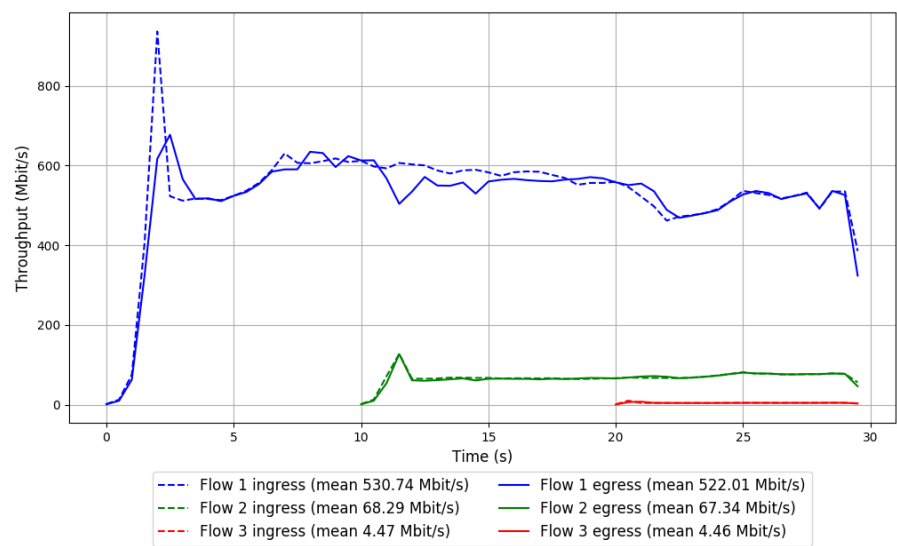
-- Flow 3:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 143.047 ms

Loss rate: 1.29%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-27 00:42:00

End at: 2018-01-27 00:42:30

Below is generated by plot.py at 2018-01-27 04:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 542.98 Mbit/s

95th percentile per-packet one-way delay: 187.224 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 464.34 Mbit/s

95th percentile per-packet one-way delay: 189.975 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 179.233 ms

Loss rate: 1.24%

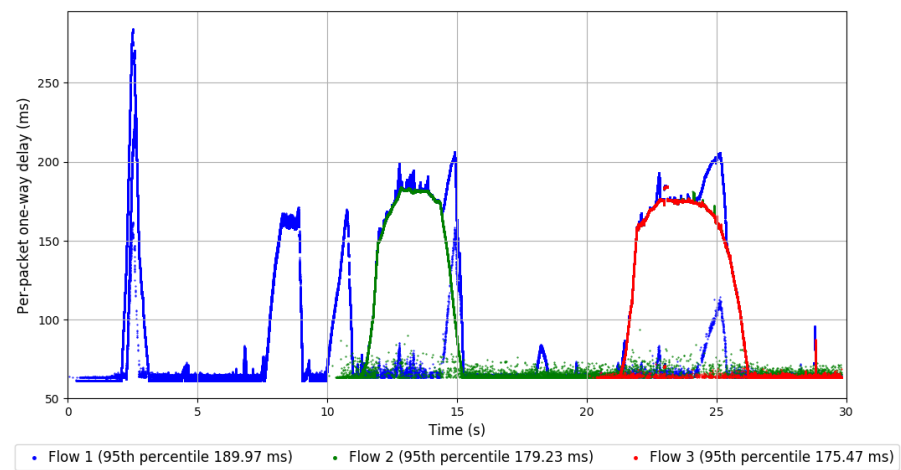
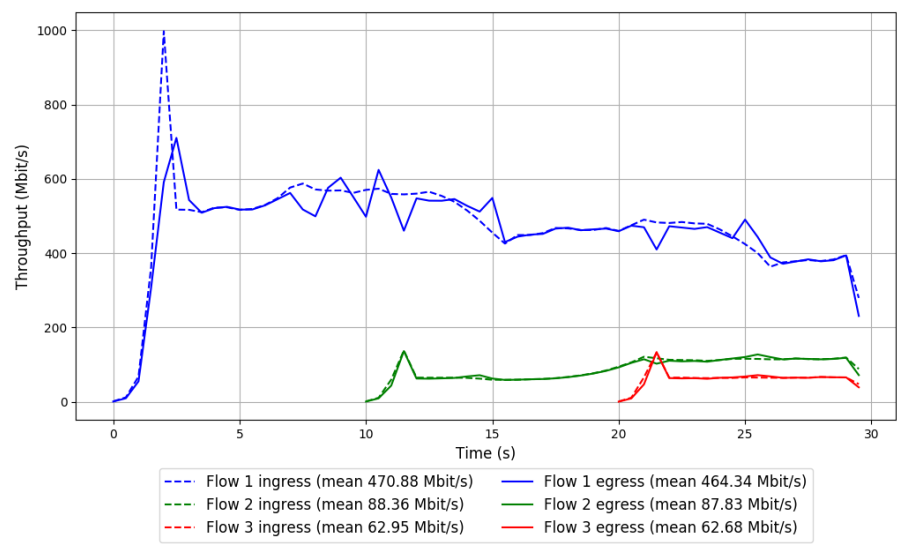
-- Flow 3:

Average throughput: 62.68 Mbit/s

95th percentile per-packet one-way delay: 175.475 ms

Loss rate: 1.68%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-27 00:56:48

End at: 2018-01-27 00:57:18

Below is generated by plot.py at 2018-01-27 04:58:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 565.77 Mbit/s

95th percentile per-packet one-way delay: 162.766 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 511.35 Mbit/s

95th percentile per-packet one-way delay: 164.162 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 152.893 ms

Loss rate: 0.71%

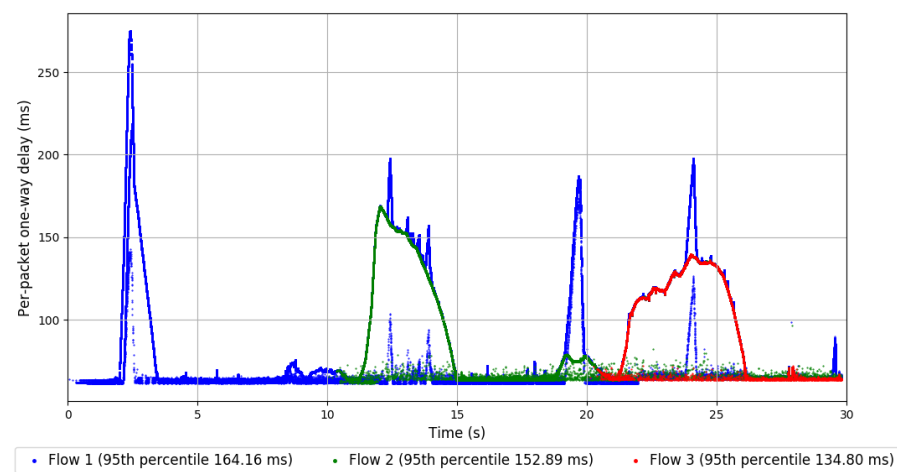
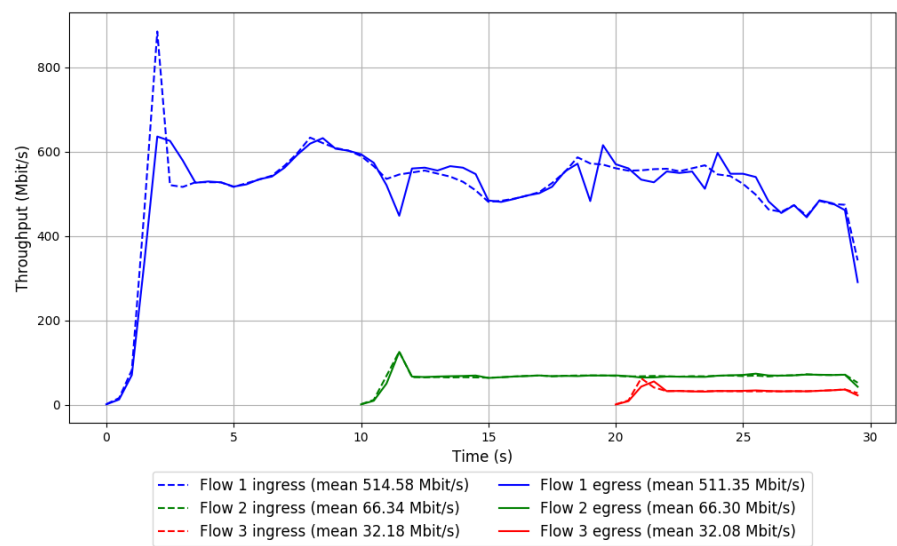
-- Flow 3:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 134.802 ms

Loss rate: 1.60%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-27 01:11:29

End at: 2018-01-27 01:11:59

Below is generated by plot.py at 2018-01-27 04:58:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 549.30 Mbit/s

95th percentile per-packet one-way delay: 183.493 ms

Loss rate: 3.42%

-- Flow 1:

Average throughput: 471.39 Mbit/s

95th percentile per-packet one-way delay: 183.554 ms

Loss rate: 3.33%

-- Flow 2:

Average throughput: 116.22 Mbit/s

95th percentile per-packet one-way delay: 183.318 ms

Loss rate: 3.96%

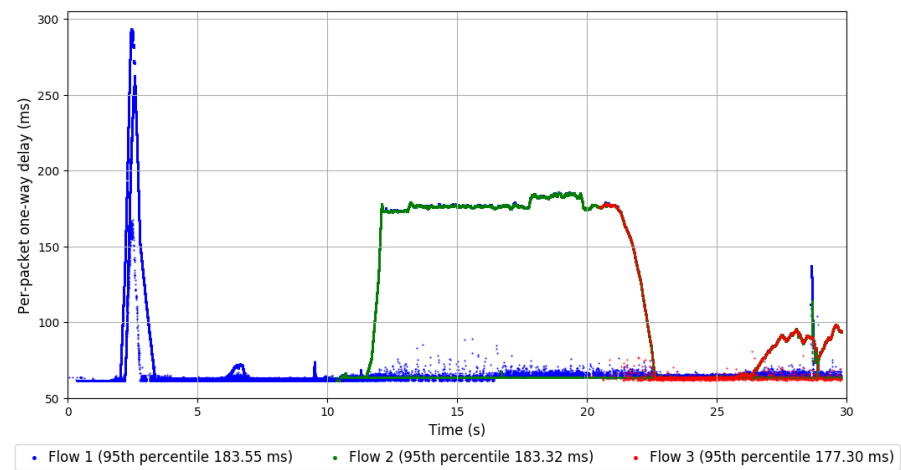
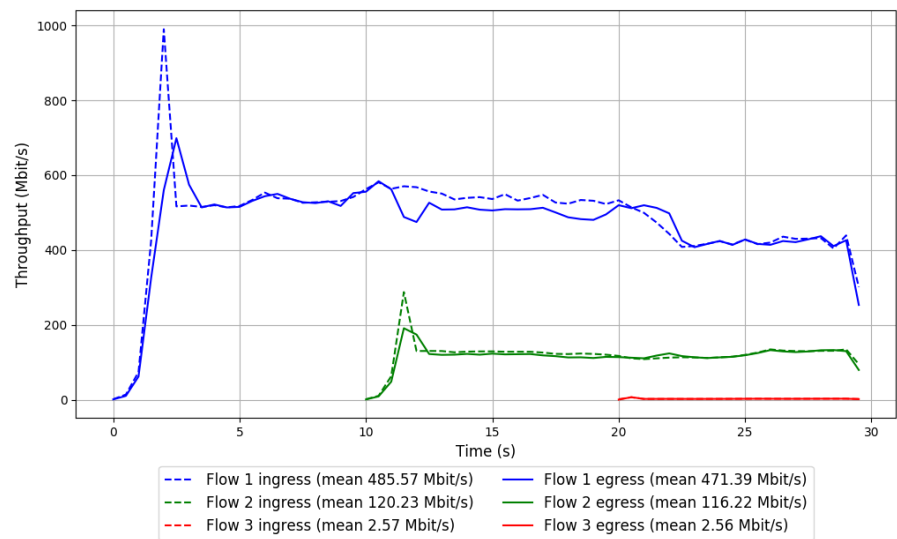
-- Flow 3:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 177.302 ms

Loss rate: 1.92%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-27 01:26:06

End at: 2018-01-27 01:26:36

Below is generated by plot.py at 2018-01-27 04:59:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 558.23 Mbit/s

95th percentile per-packet one-way delay: 181.416 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 534.67 Mbit/s

95th percentile per-packet one-way delay: 181.417 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 181.359 ms

Loss rate: 1.69%

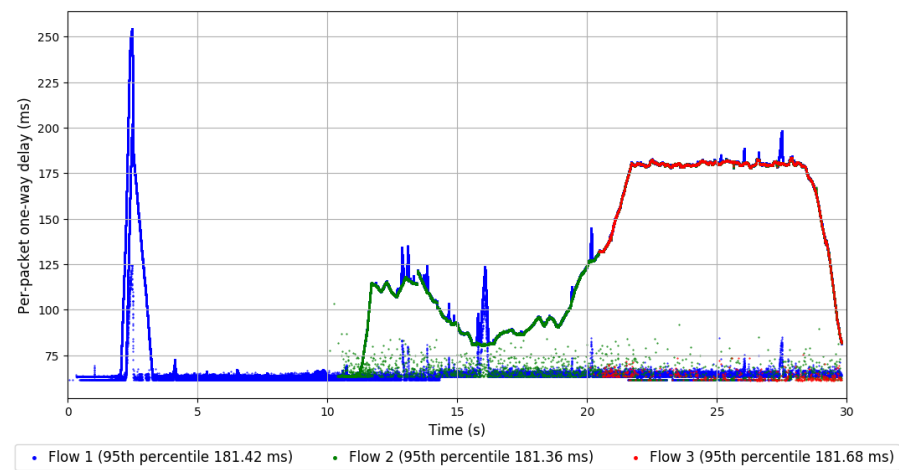
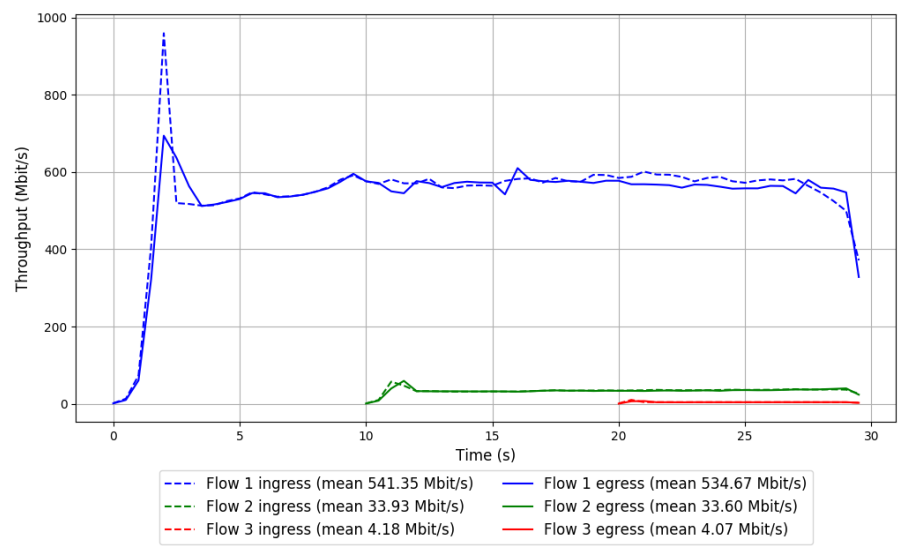
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 181.681 ms

Loss rate: 3.80%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-27 01:40:42

End at: 2018-01-27 01:41:12

Below is generated by plot.py at 2018-01-27 05:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.11 Mbit/s

95th percentile per-packet one-way delay: 174.152 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 511.60 Mbit/s

95th percentile per-packet one-way delay: 174.397 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 169.444 ms

Loss rate: 1.00%

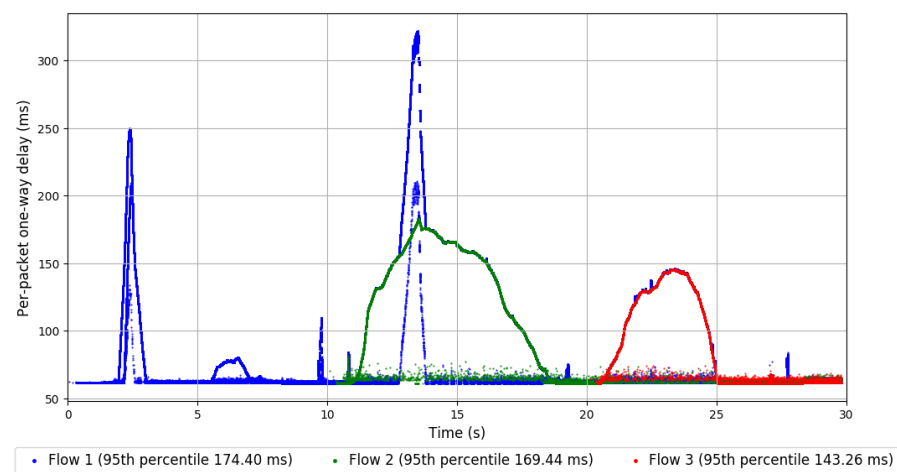
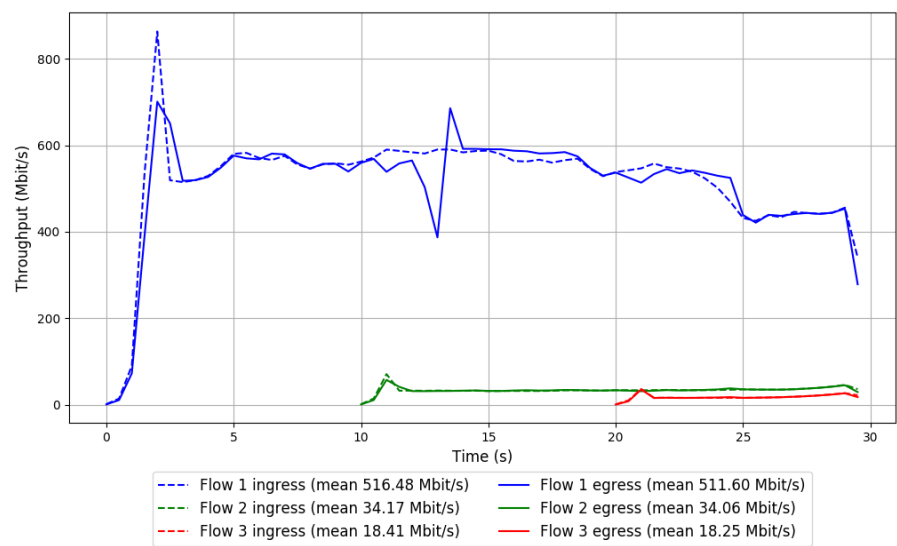
-- Flow 3:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 143.263 ms

Loss rate: 2.12%

Run 9: Report of PCC — Data Link

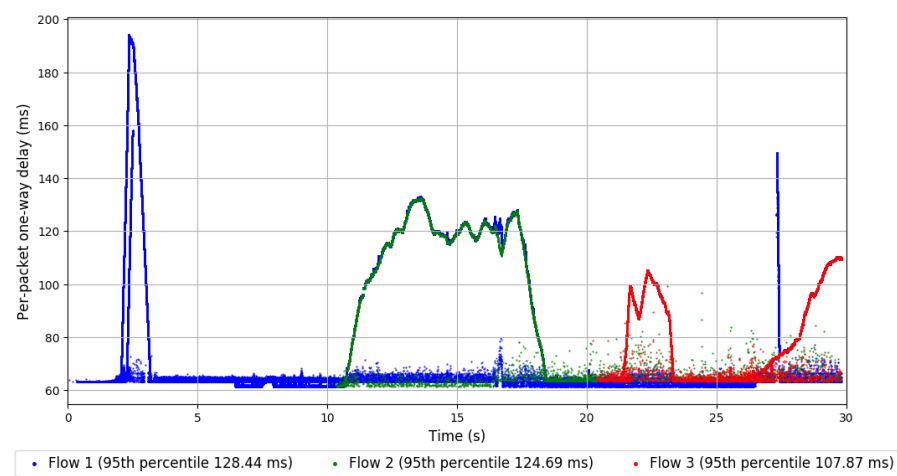
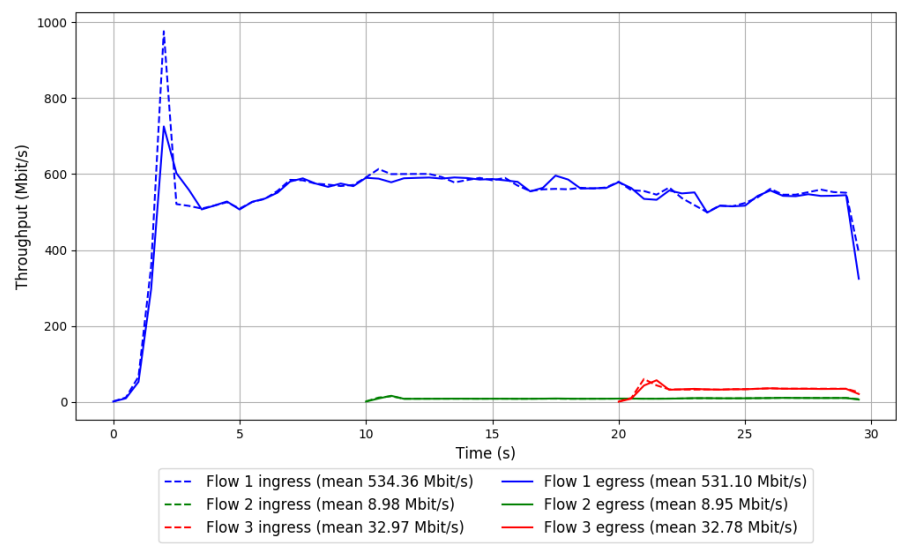


```
Run 10: Statistics of PCC

Start at: 2018-01-27 01:55:24
End at: 2018-01-27 01:55:54

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 547.72 Mbit/s
95th percentile per-packet one-way delay: 128.042 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 531.10 Mbit/s
95th percentile per-packet one-way delay: 128.444 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 124.688 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 107.870 ms
Loss rate: 1.85%
```

Run 10: Report of PCC — Data Link

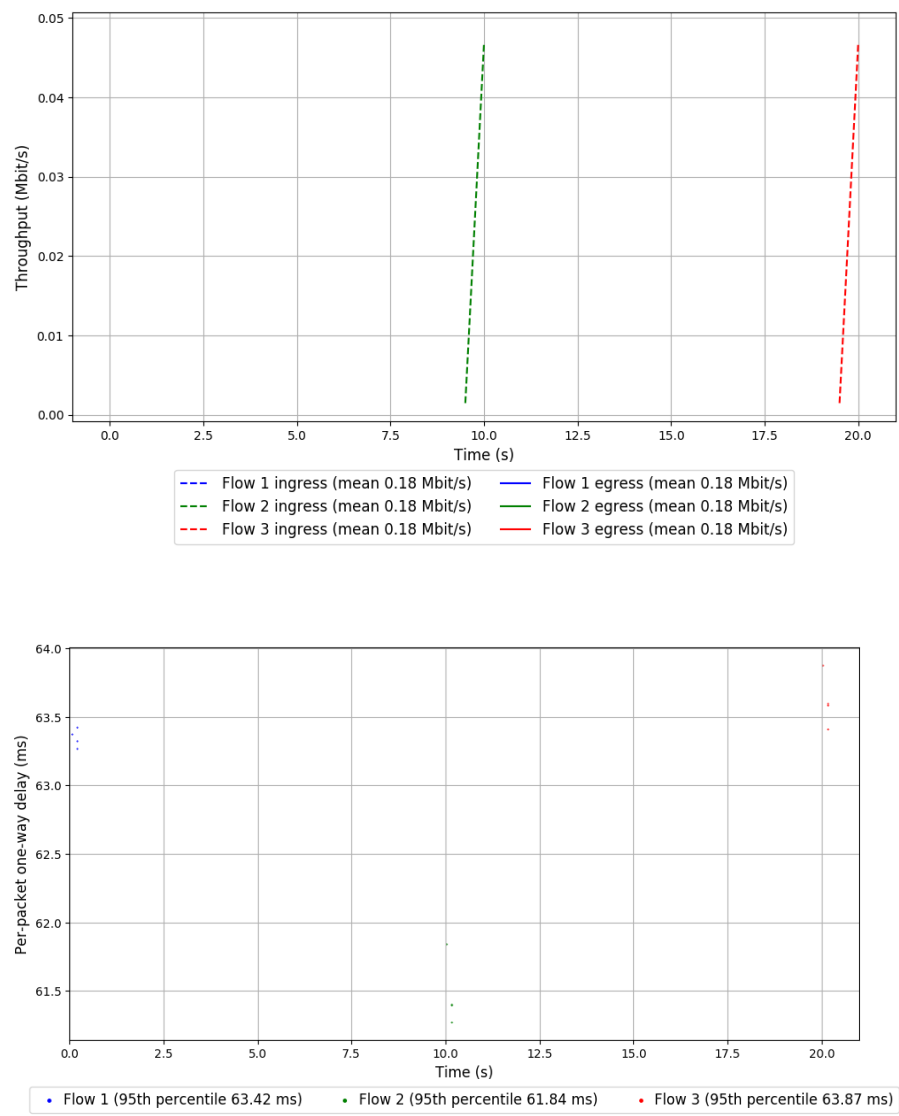


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 23:46:43

End at: 2018-01-26 23:47:13

Run 1: Report of QUIC Cubic — Data Link

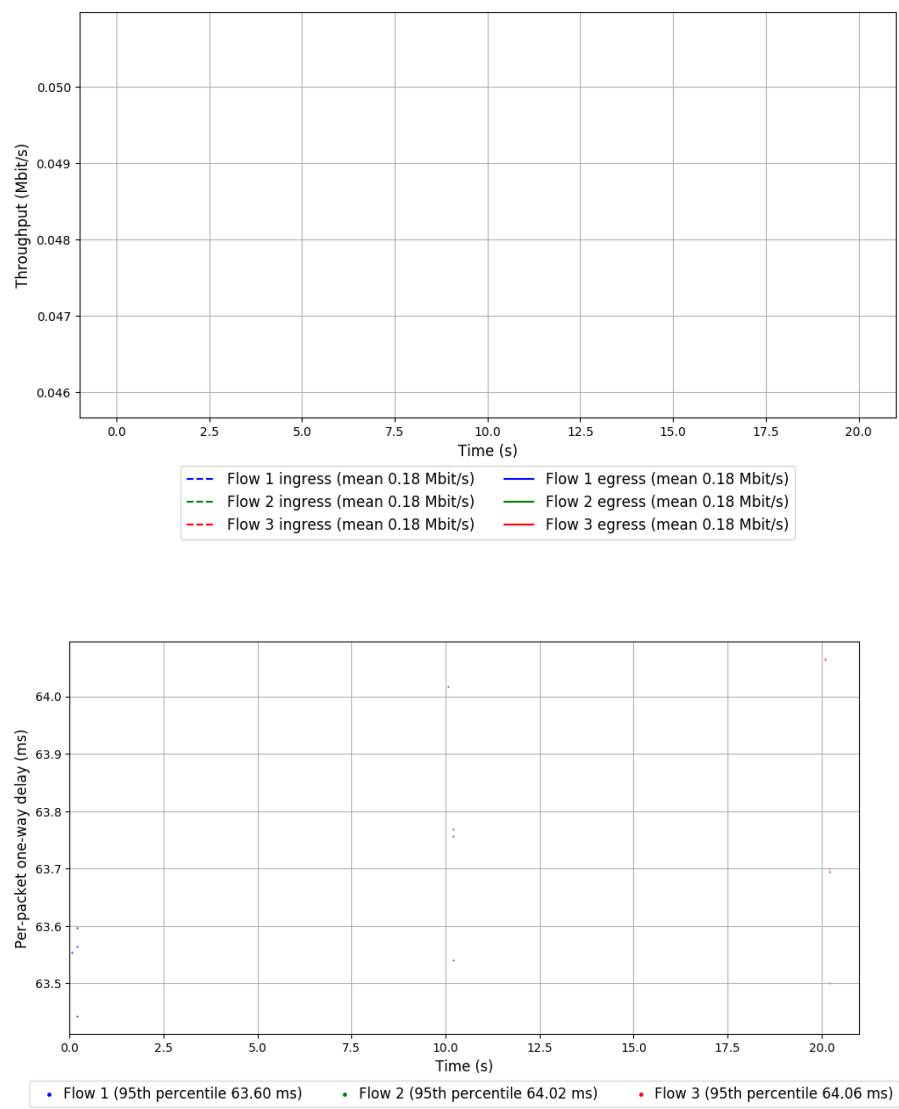


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-27 00:01:08

End at: 2018-01-27 00:01:38

Run 2: Report of QUIC Cubic — Data Link

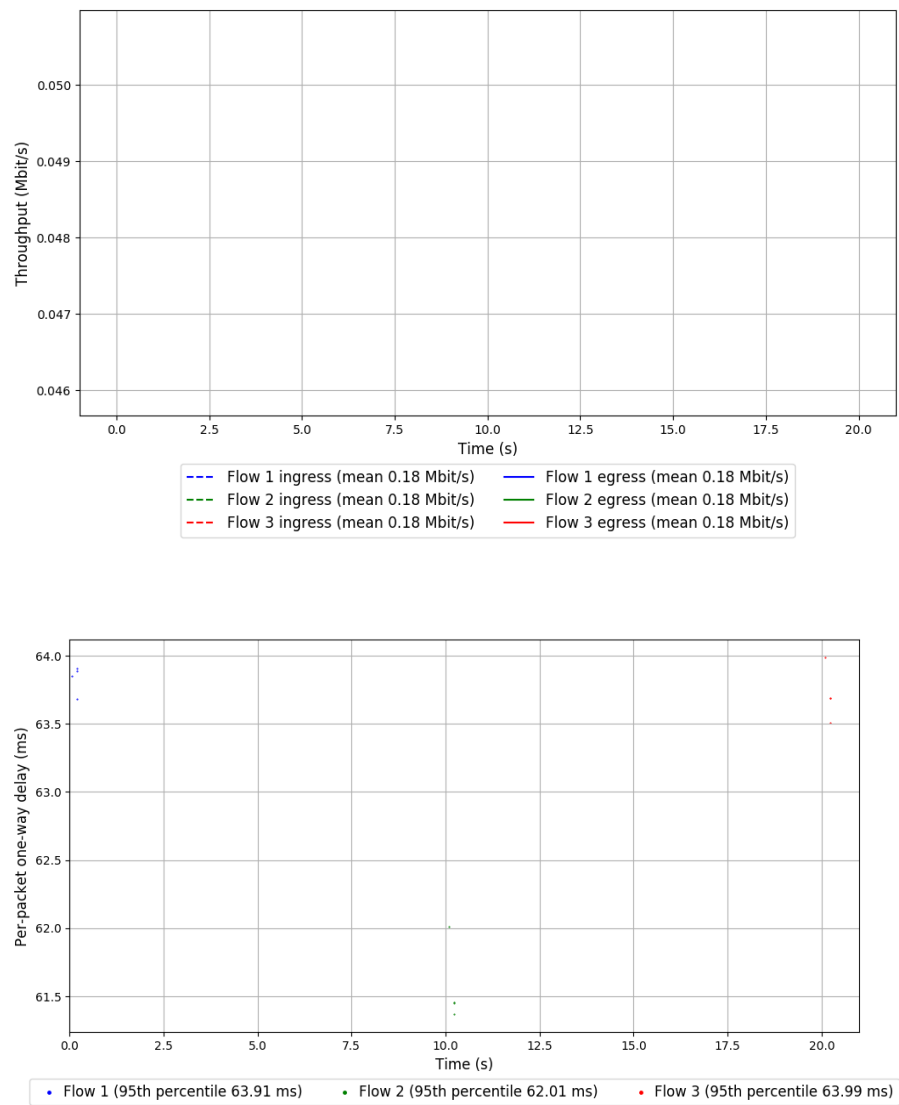


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-27 00:15:55

End at: 2018-01-27 00:16:25

Run 3: Report of QUIC Cubic — Data Link

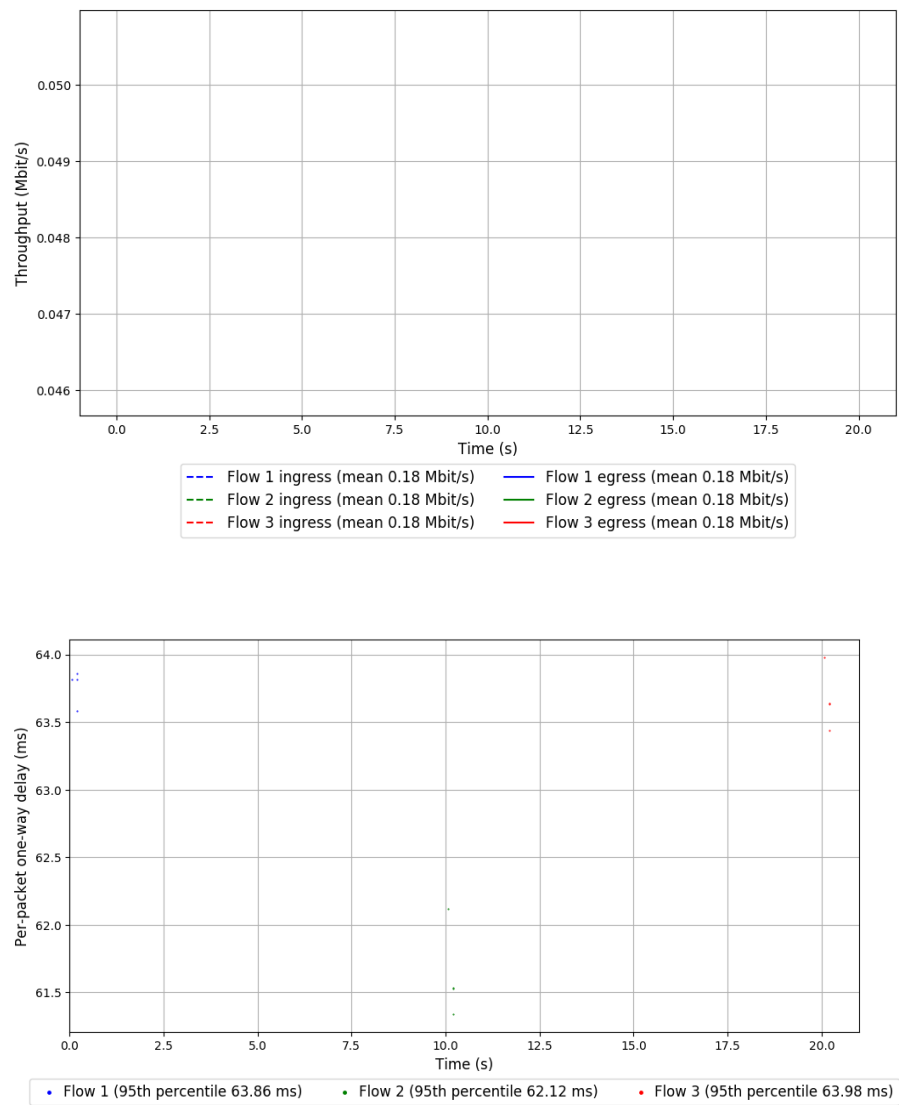


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-27 00:30:36

End at: 2018-01-27 00:31:06

Run 4: Report of QUIC Cubic — Data Link

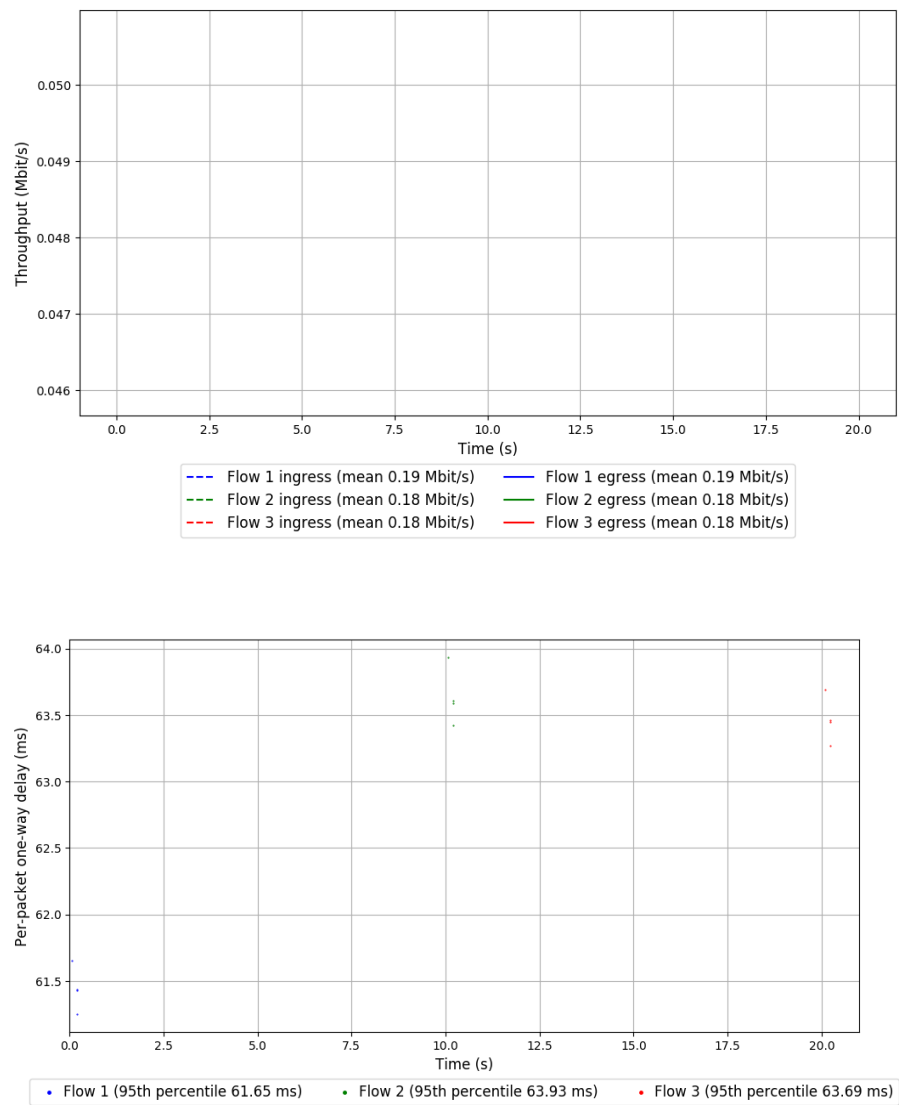


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-27 00:45:31

End at: 2018-01-27 00:46:01

Run 5: Report of QUIC Cubic — Data Link

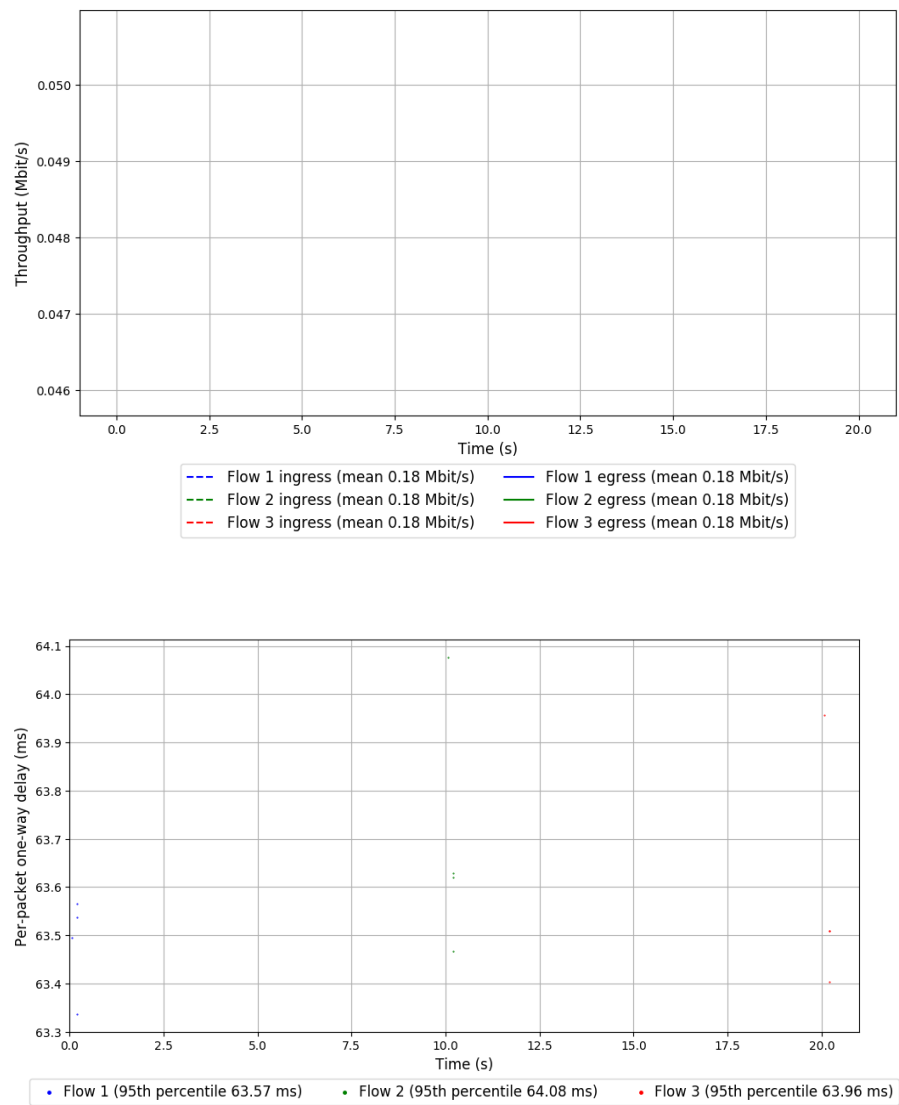


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-27 01:00:16

End at: 2018-01-27 01:00:46

Run 6: Report of QUIC Cubic — Data Link

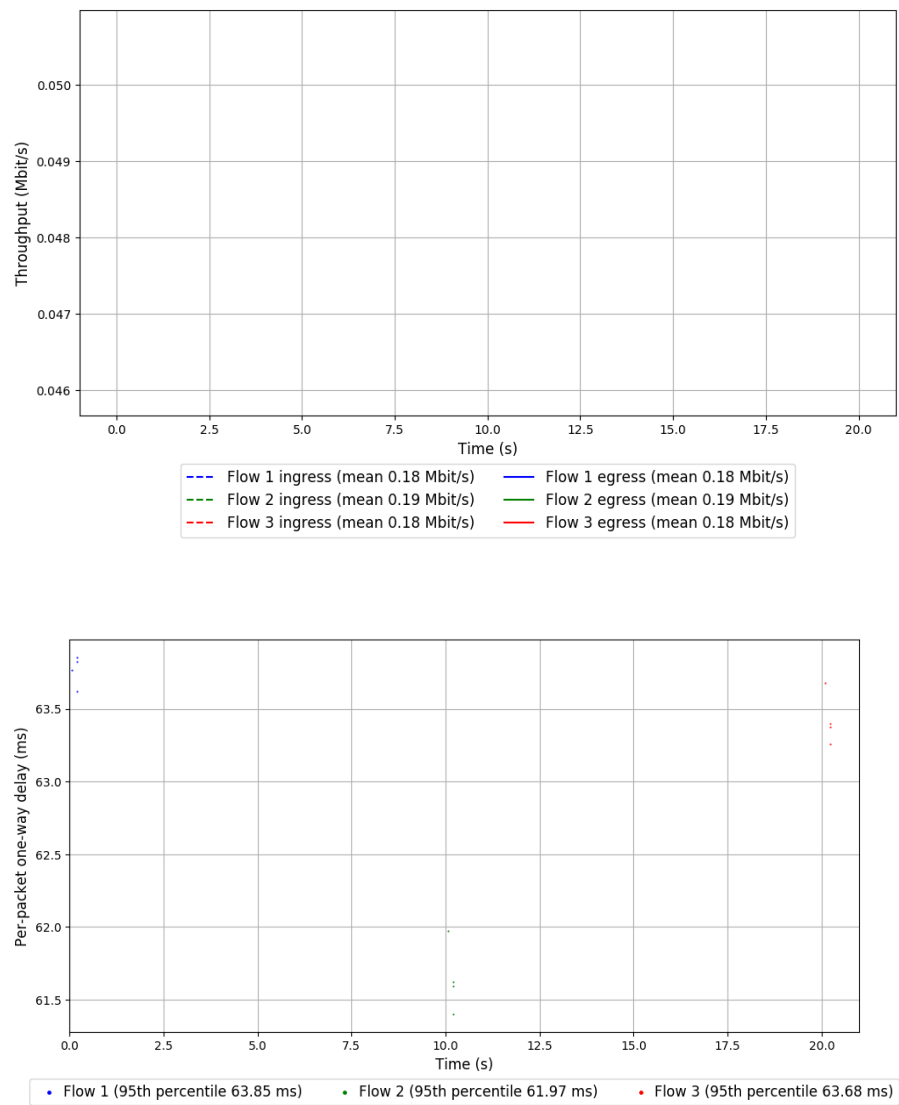


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-27 01:15:00

End at: 2018-01-27 01:15:30

Run 7: Report of QUIC Cubic — Data Link

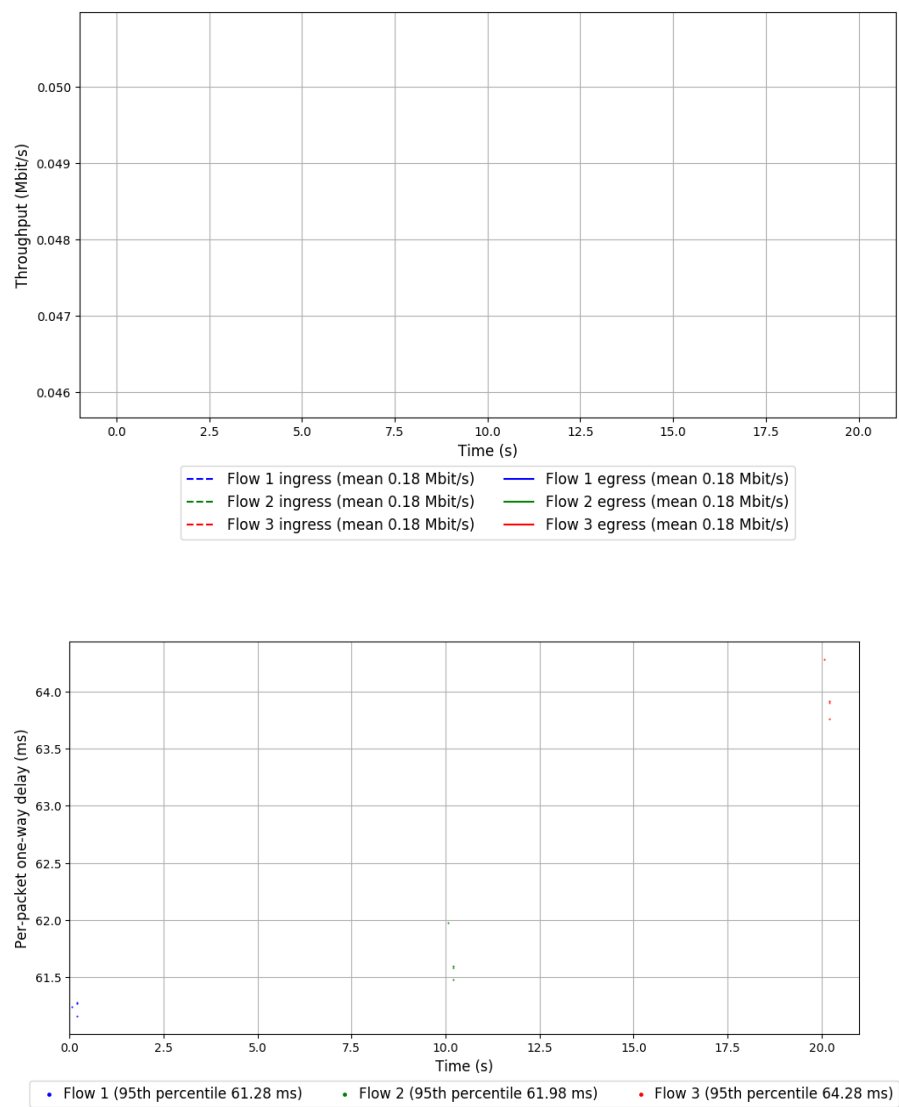


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-27 01:29:24

End at: 2018-01-27 01:29:54

Run 8: Report of QUIC Cubic — Data Link

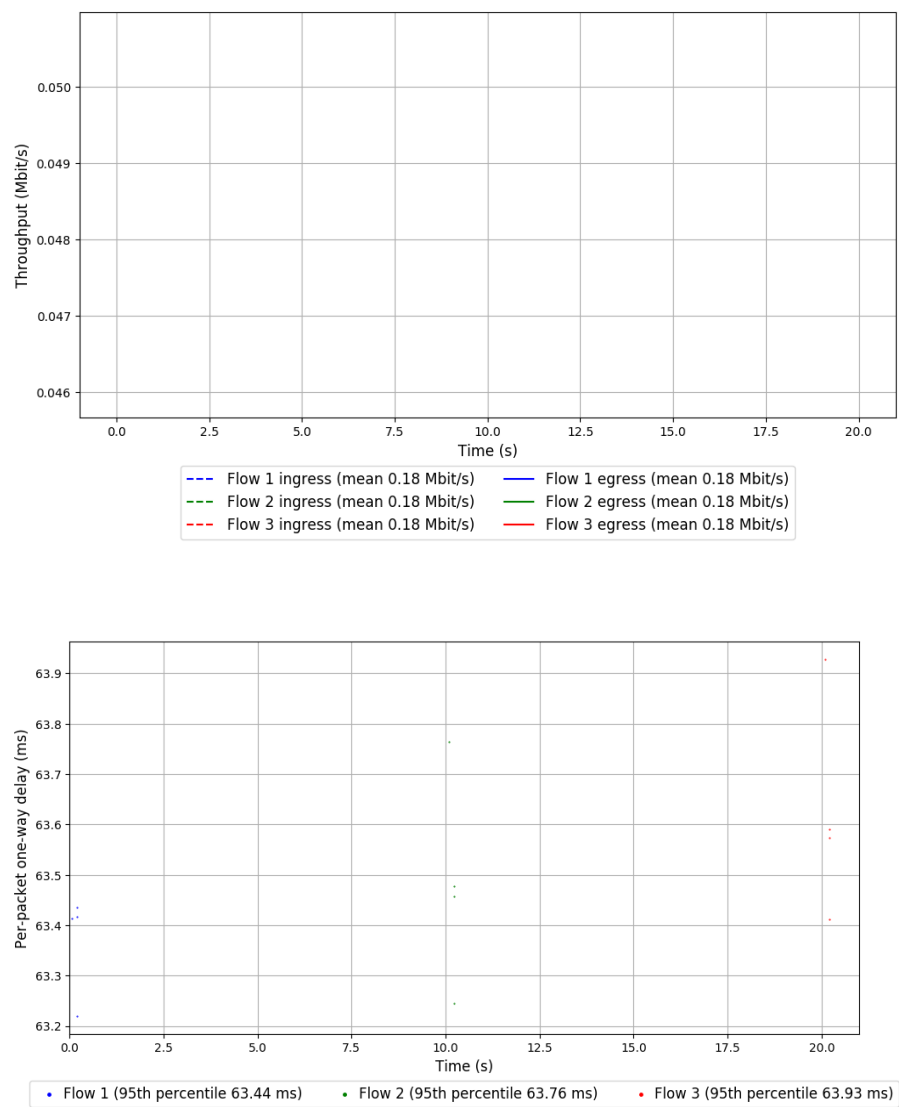


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-27 01:44:08

End at: 2018-01-27 01:44:38

Run 9: Report of QUIC Cubic — Data Link

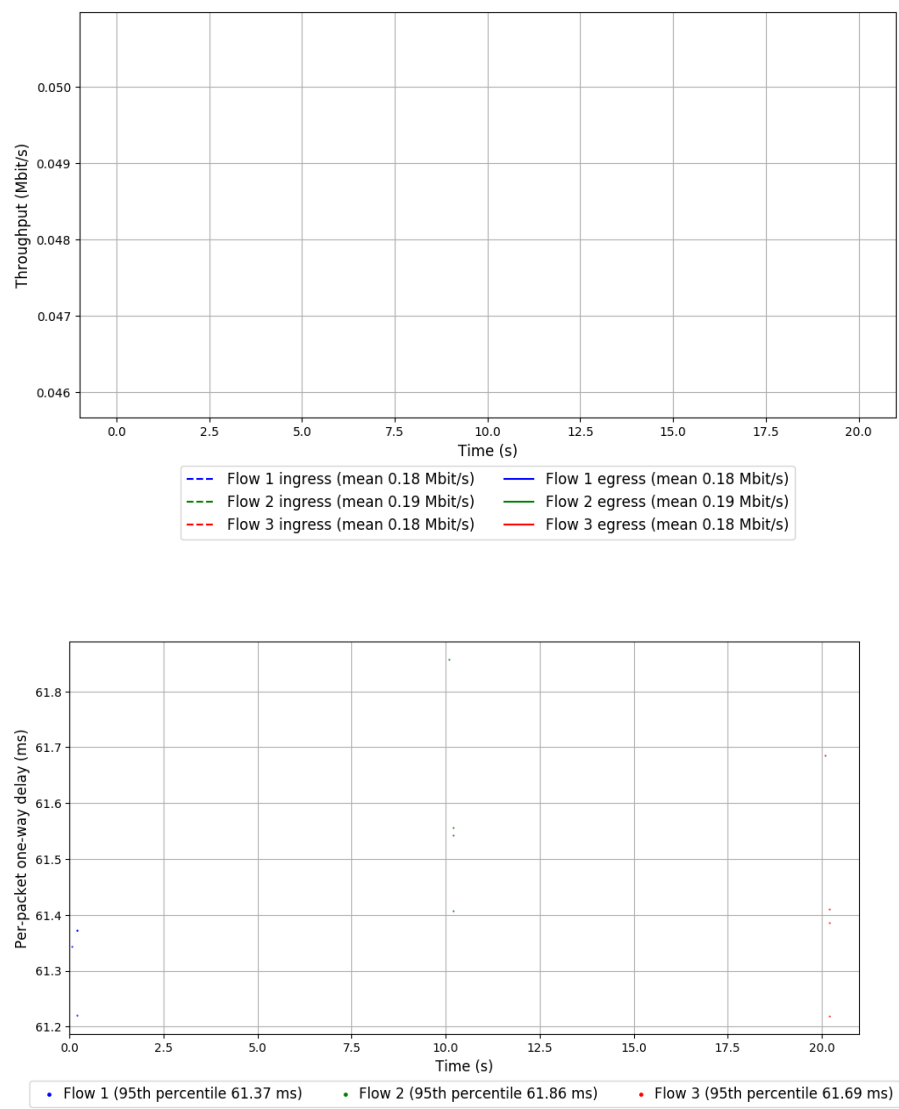


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-27 01:58:55

End at: 2018-01-27 01:59:25

Run 10: Report of QUIC Cubic — Data Link

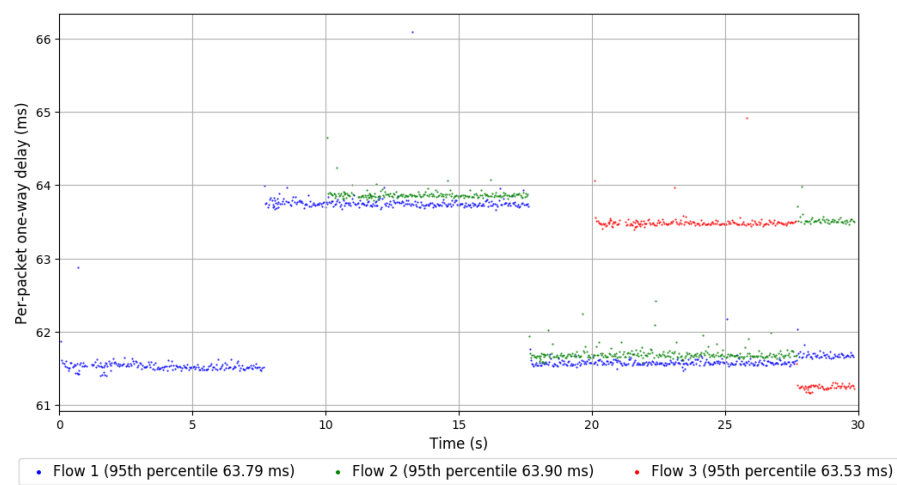
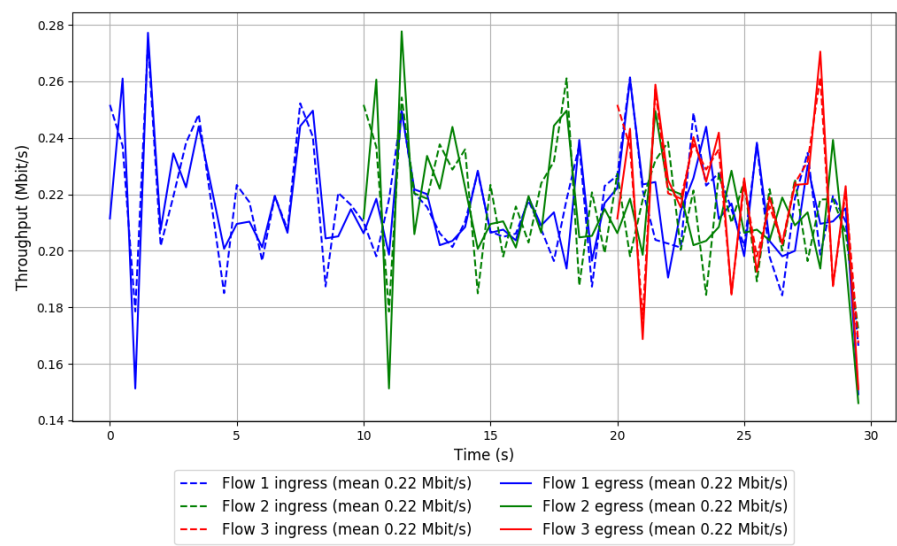


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 23:46:02
End at: 2018-01-26 23:46:32

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.874 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.789 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.897 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 1.10%
```

Run 1: Report of SReAM — Data Link

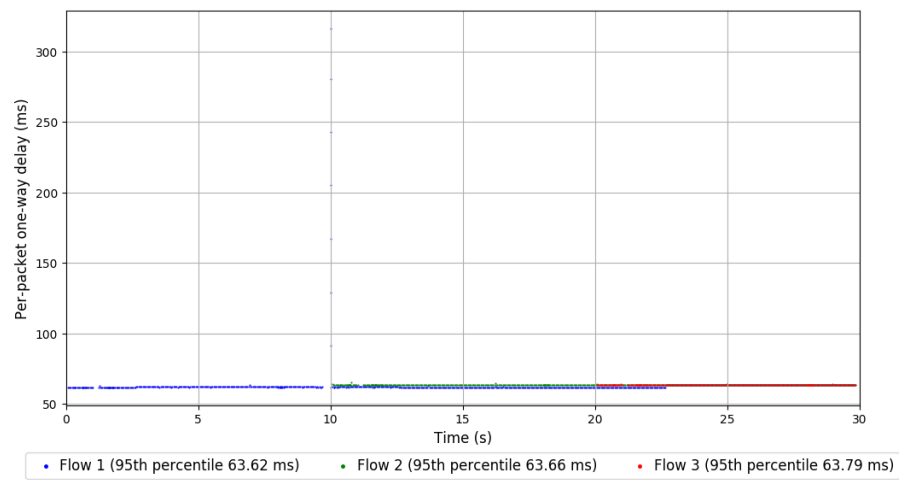
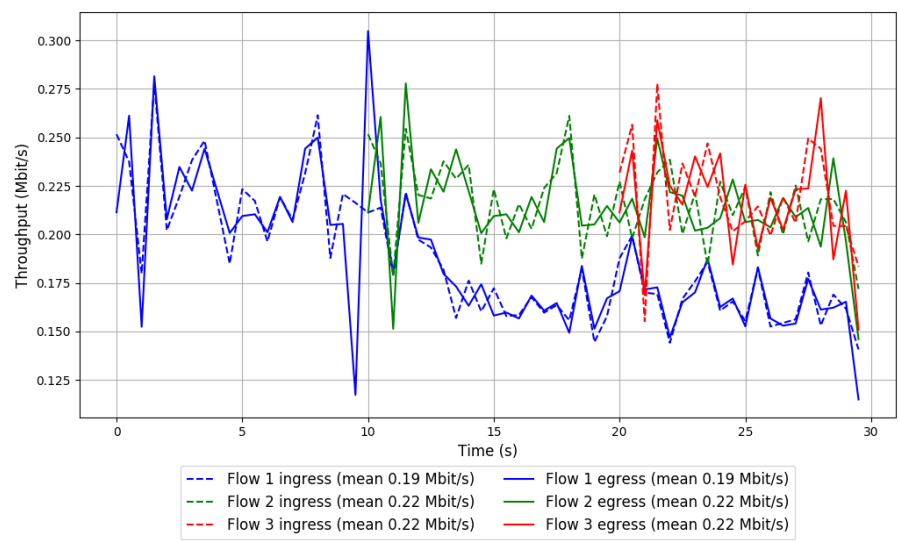


```
Run 2: Statistics of SCReAM

Start at: 2018-01-27 00:00:27
End at: 2018-01-27 00:00:57

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 63.718 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 63.615 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.790 ms
Loss rate: 1.10%
```

Run 2: Report of SReAM — Data Link

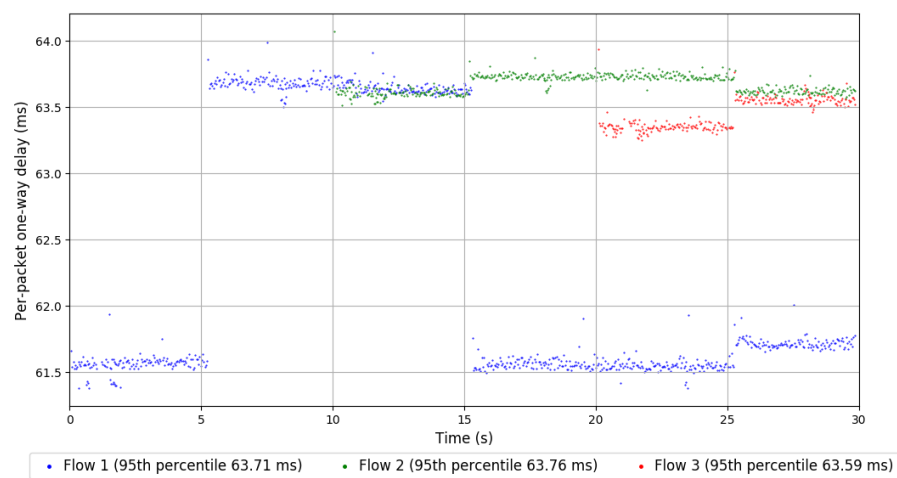
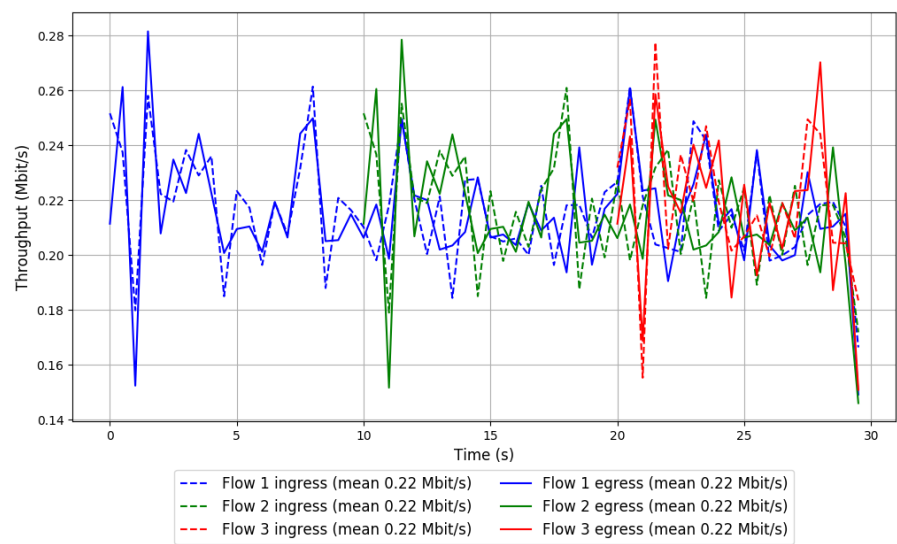


```
Run 3: Statistics of SCReAM

Start at: 2018-01-27 00:15:15
End at: 2018-01-27 00:15:45

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.745 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.711 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.764 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.594 ms
Loss rate: 1.10%
```


Run 3: Report of SReAM — Data Link

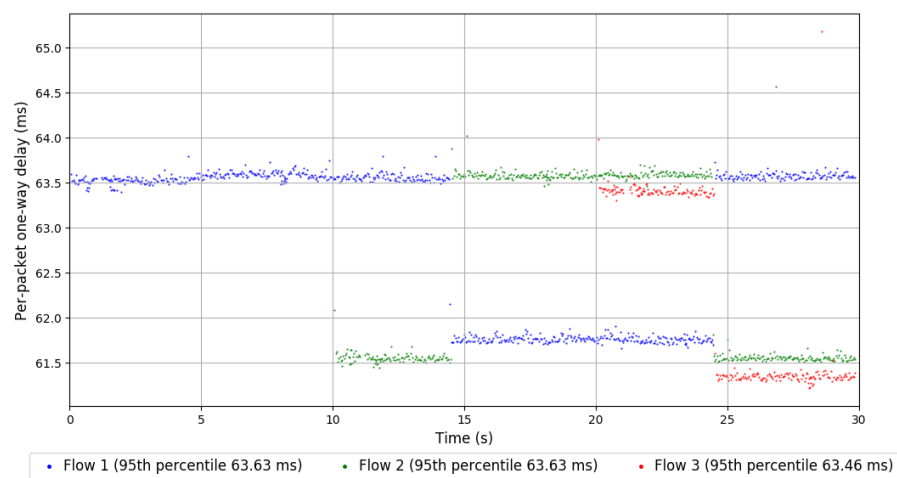
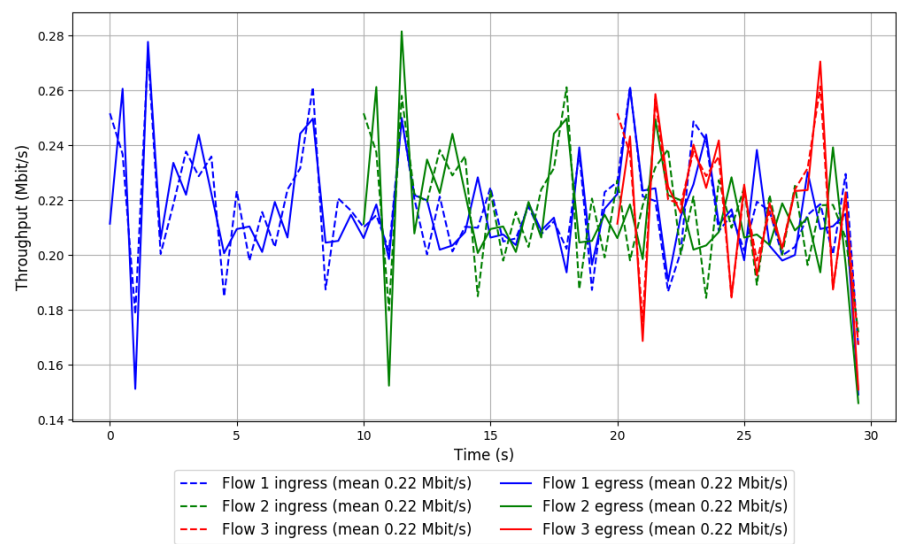


```
Run 4: Statistics of SCReAM

Start at: 2018-01-27 00:29:56
End at: 2018-01-27 00:30:26

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.622 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.627 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.626 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.457 ms
Loss rate: 1.10%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-27 00:44:50

End at: 2018-01-27 00:45:20

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.593 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.666 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.616 ms

Loss rate: 0.63%

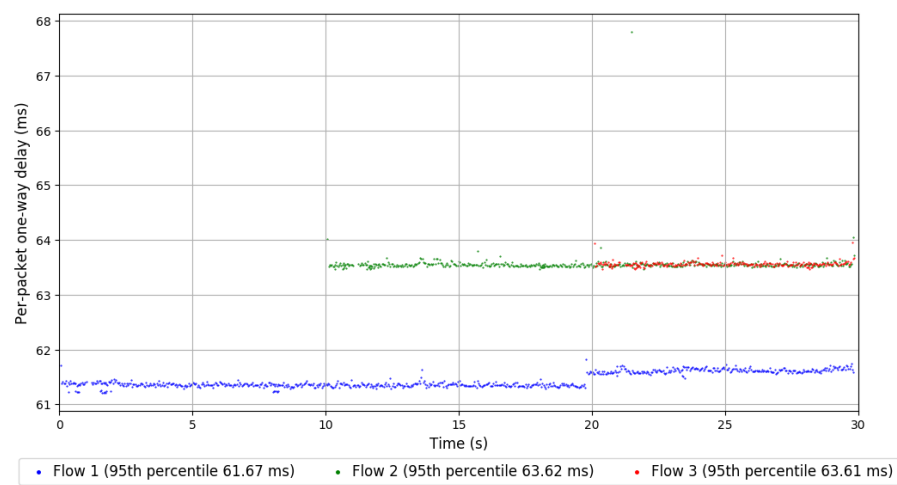
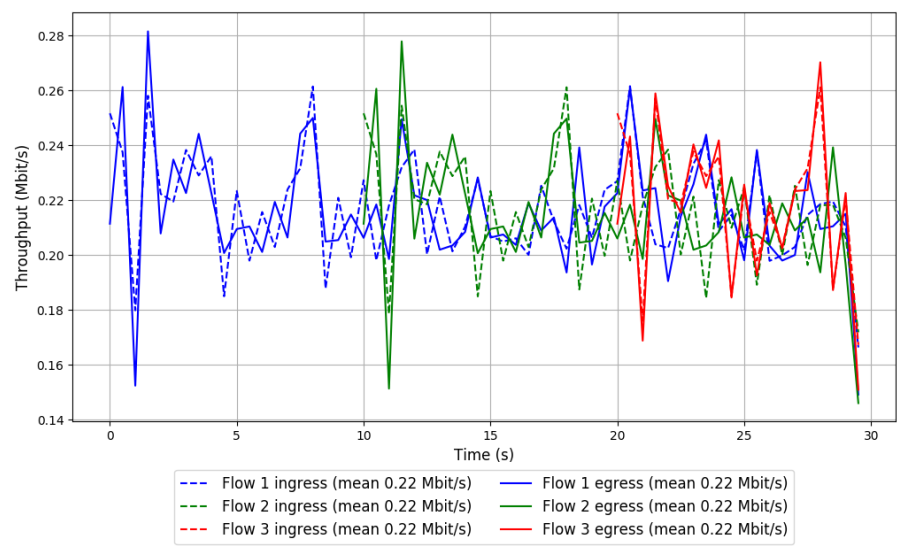
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 1.10%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-27 00:59:35

End at: 2018-01-27 01:00:05

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.835 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.530 ms

Loss rate: 0.63%

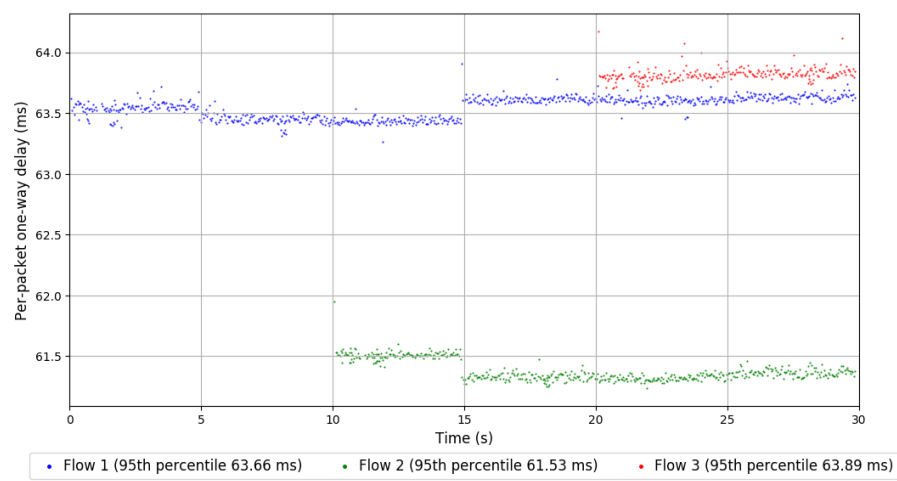
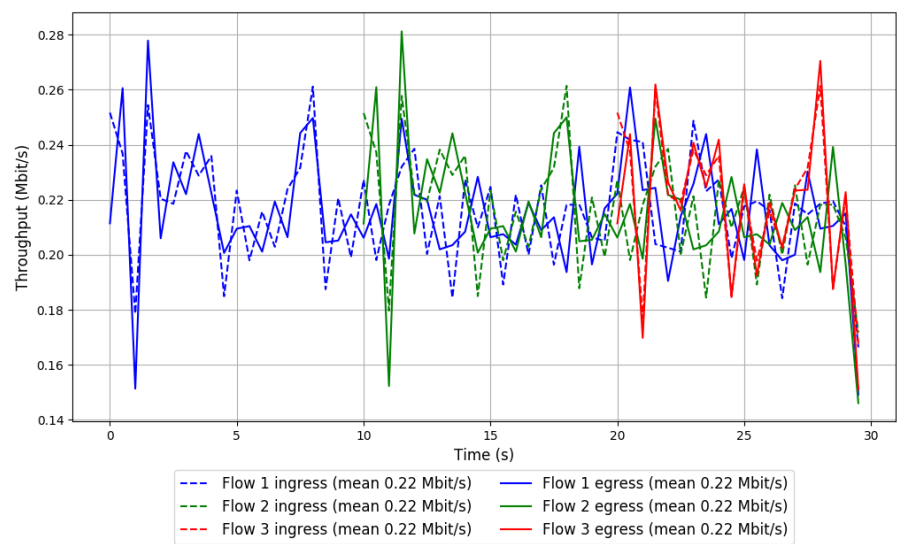
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 1.10%

Run 6: Report of SReAM — Data Link

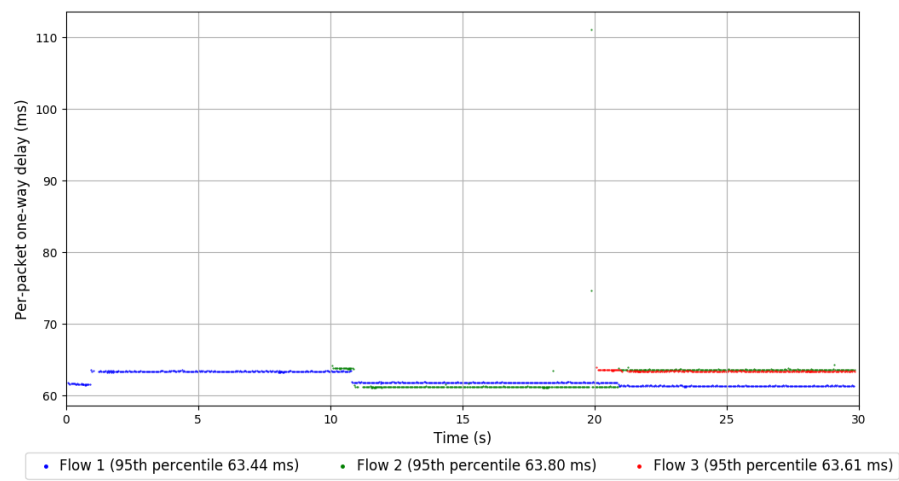
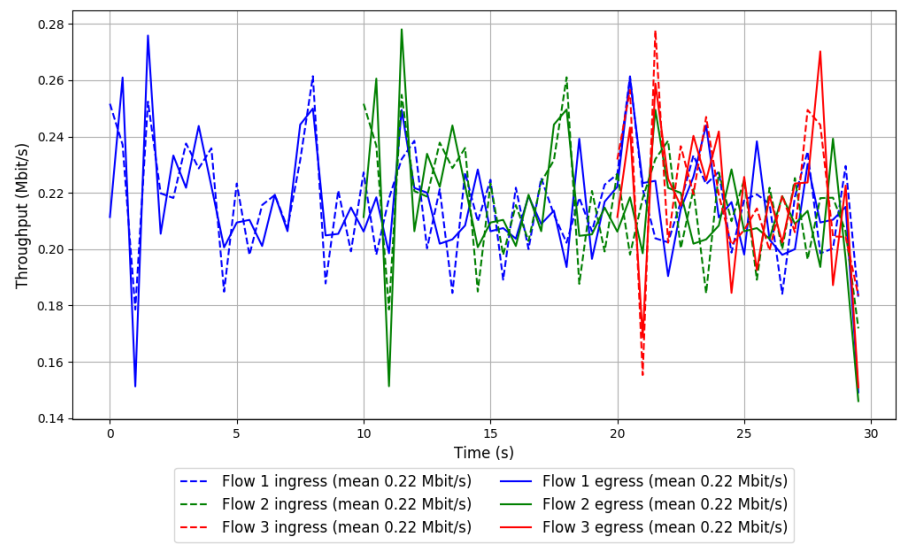


```
Run 7: Statistics of SCReAM

Start at: 2018-01-27 01:14:19
End at: 2018-01-27 01:14:49

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.652 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.444 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.801 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.612 ms
Loss rate: 1.10%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-27 01:28:44

End at: 2018-01-27 01:29:14

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.765 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.569 ms

Loss rate: 0.63%

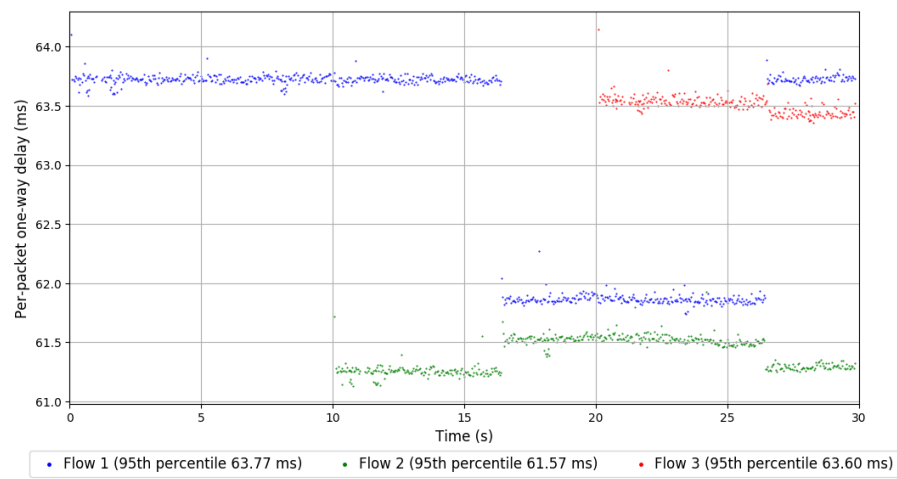
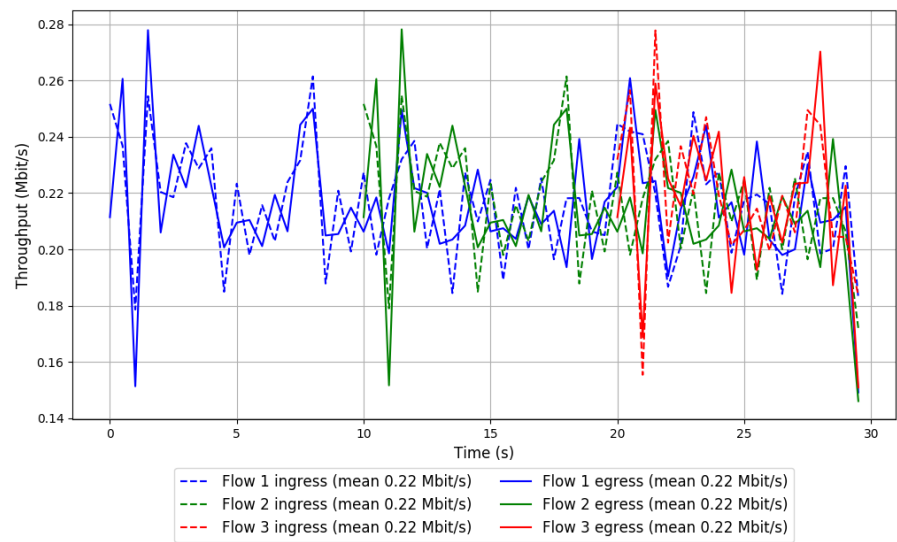
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 1.10%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-27 01:43:27

End at: 2018-01-27 01:43:57

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 63.872 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 63.790 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.896 ms

Loss rate: 0.63%

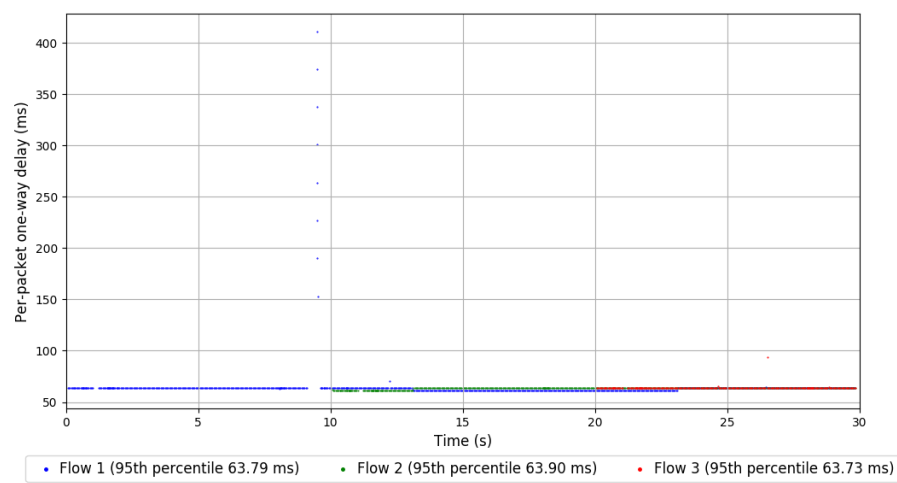
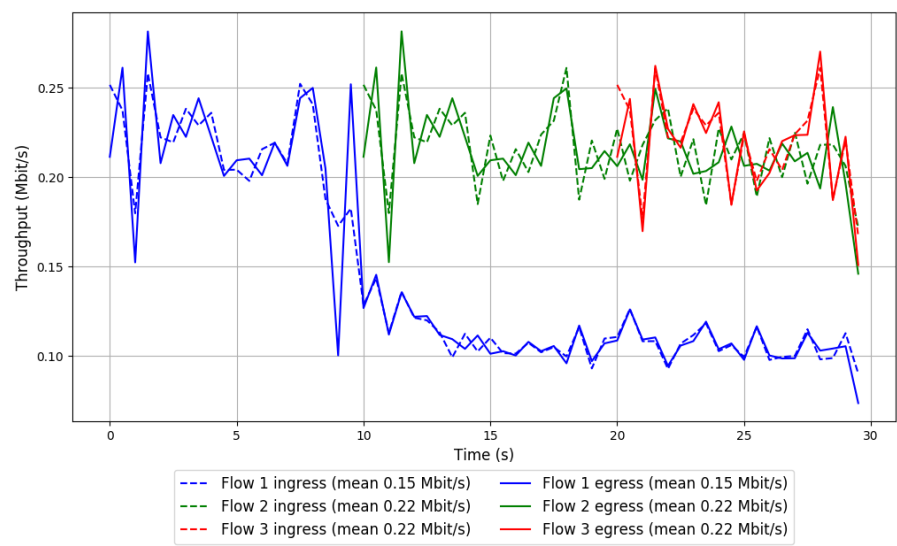
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.730 ms

Loss rate: 1.10%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-27 01:58:15

End at: 2018-01-27 01:58:45

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.813 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.824 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.63%

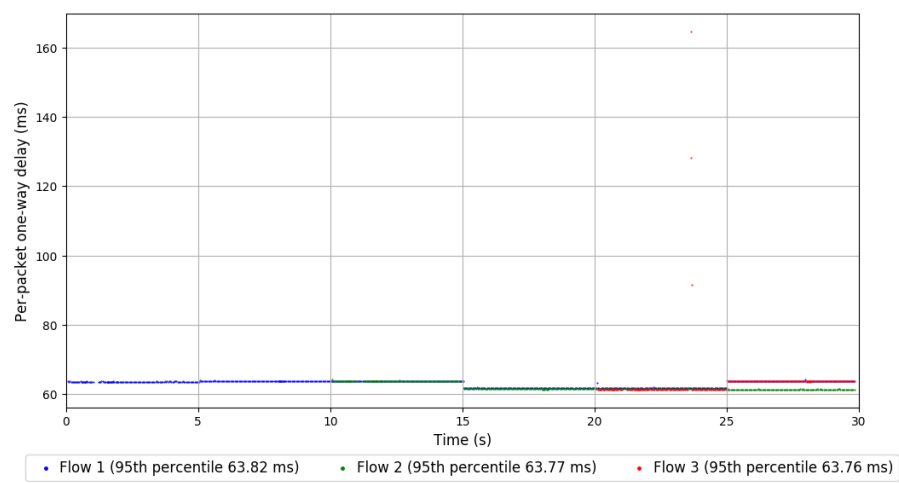
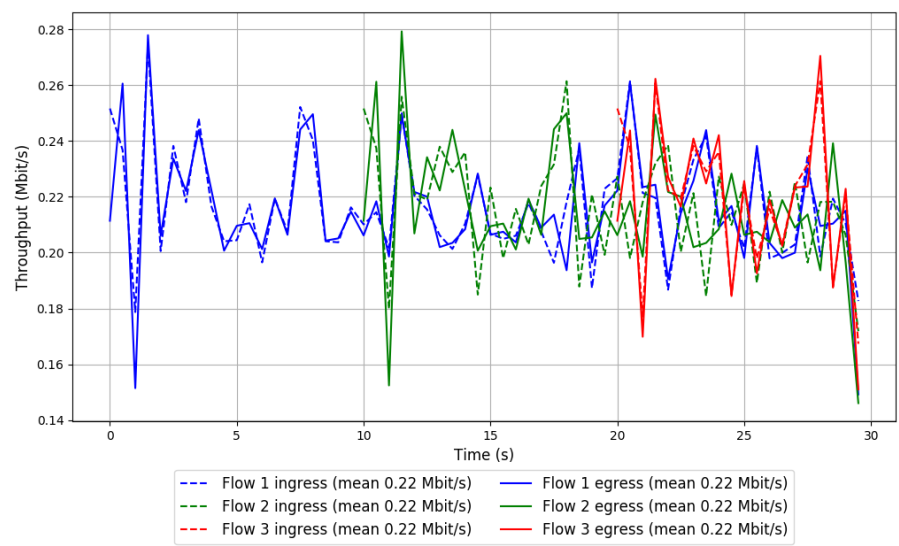
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.757 ms

Loss rate: 1.10%

Run 10: Report of SCReAM — Data Link

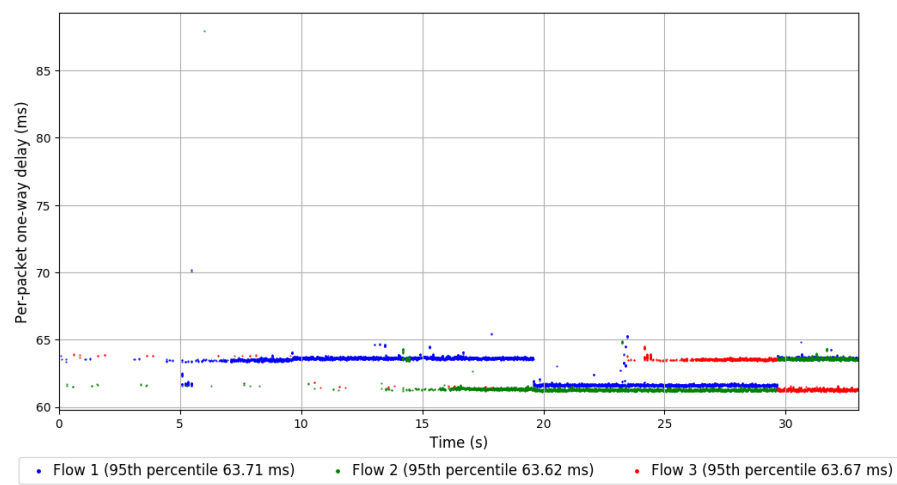
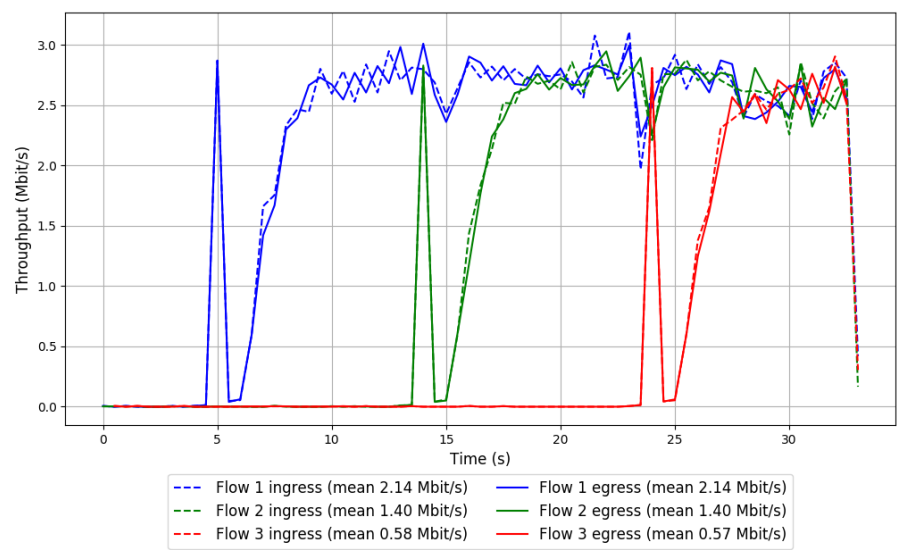


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 23:35:34
End at: 2018-01-26 23:36:04

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 63.697 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 63.622 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 2.08%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 23:50:19

End at: 2018-01-26 23:50:49

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.838 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.67%

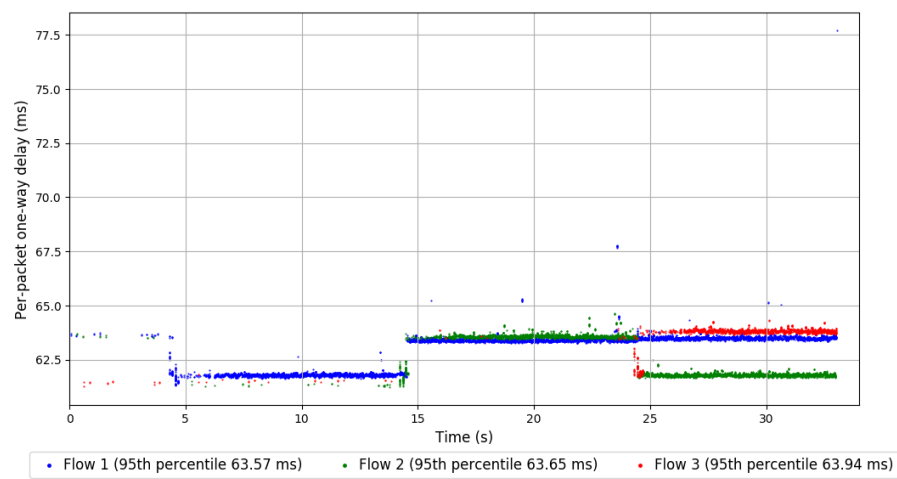
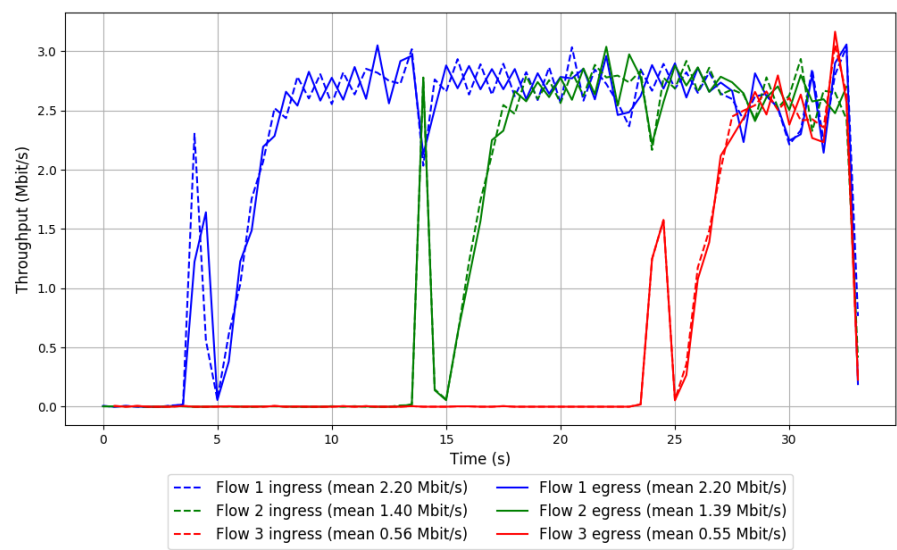
-- Flow 3:

Average throughput: 0.55 Mbit/s

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

Loss rate: 1.26%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-27 00:04:50

End at: 2018-01-27 00:05:20

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.709 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.67%

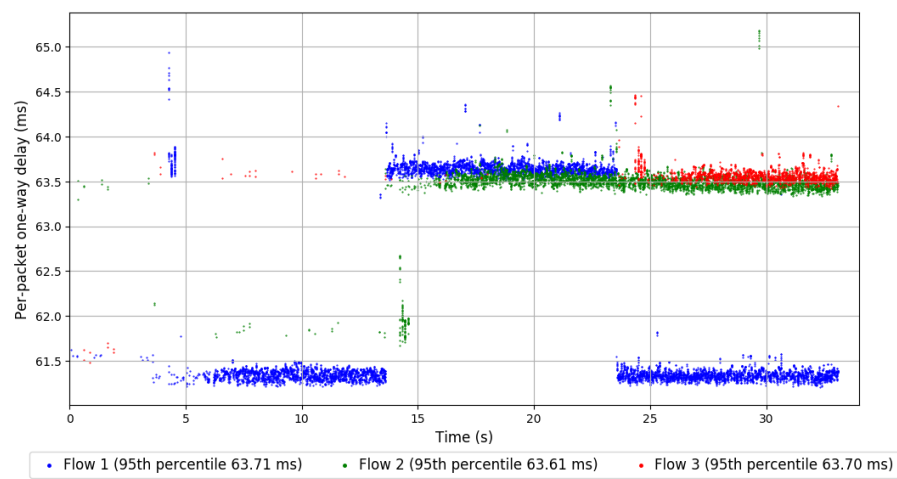
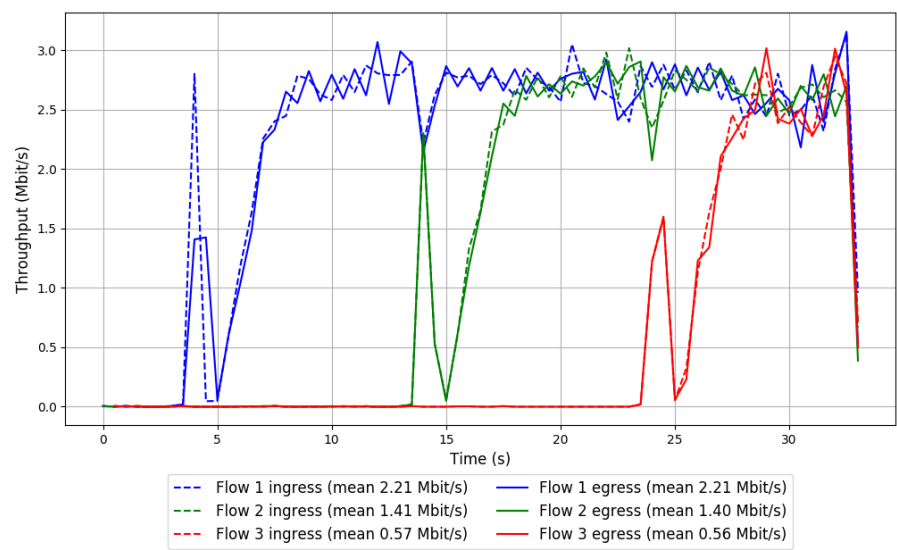
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.700 ms

Loss rate: 1.86%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-27 00:19:31

End at: 2018-01-27 00:20:01

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 64.003 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.83%

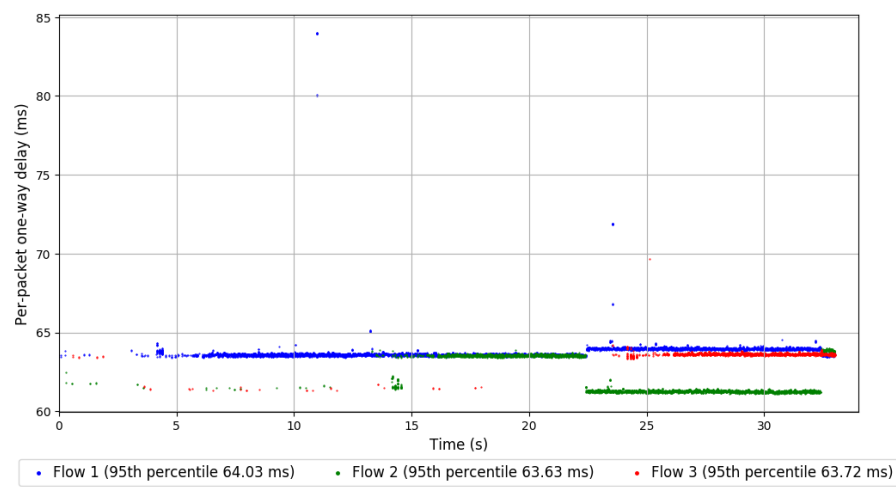
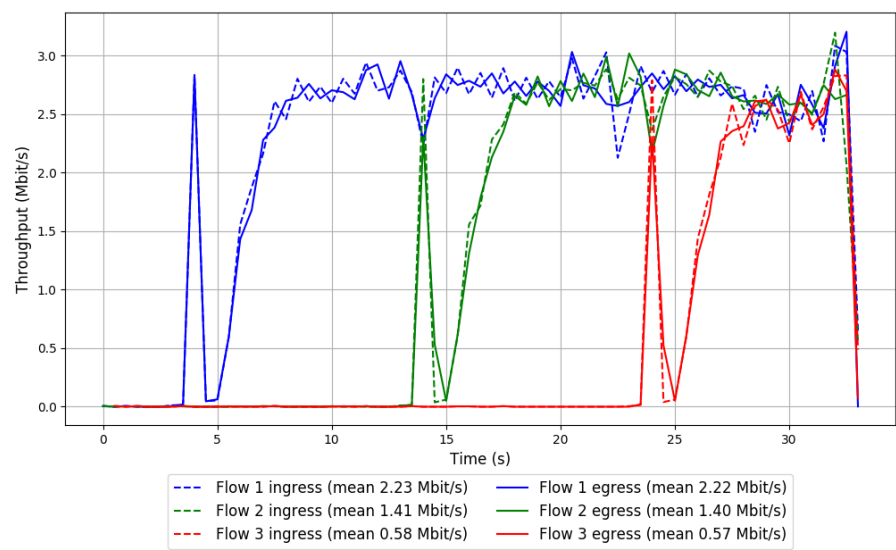
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 1.98%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-27 00:34:17

End at: 2018-01-27 00:34:47

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.963 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.88%

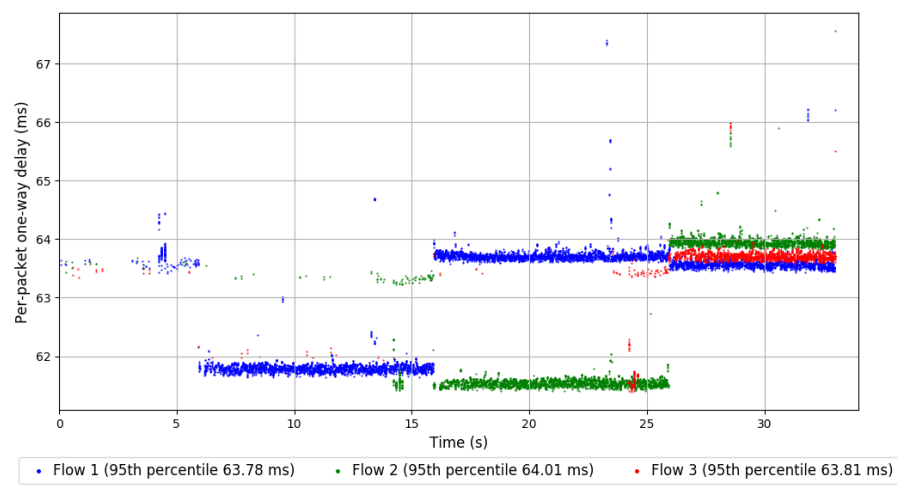
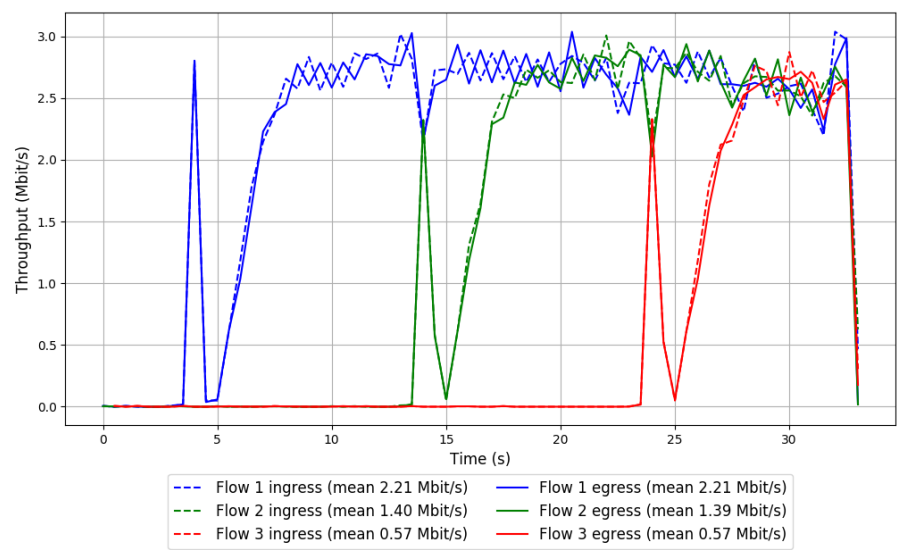
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.814 ms

Loss rate: 1.38%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-27 00:49:05

End at: 2018-01-27 00:49:35

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.580 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.566 ms

Loss rate: 0.71%

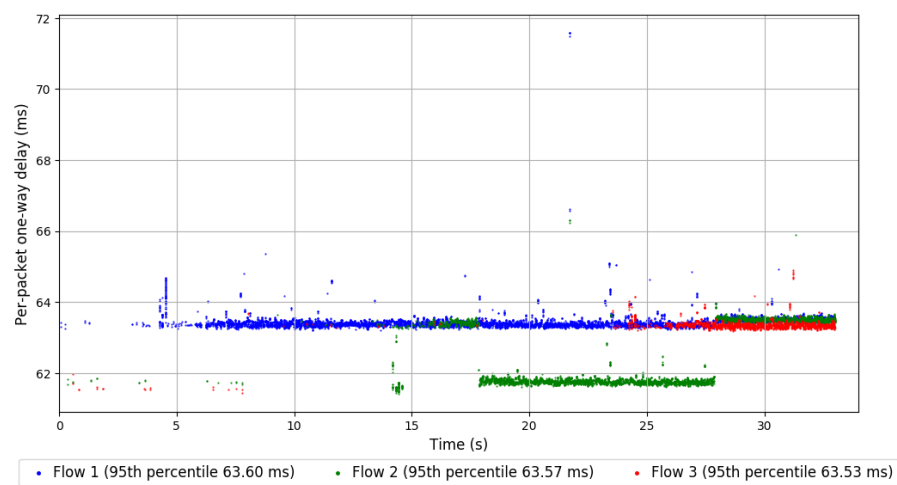
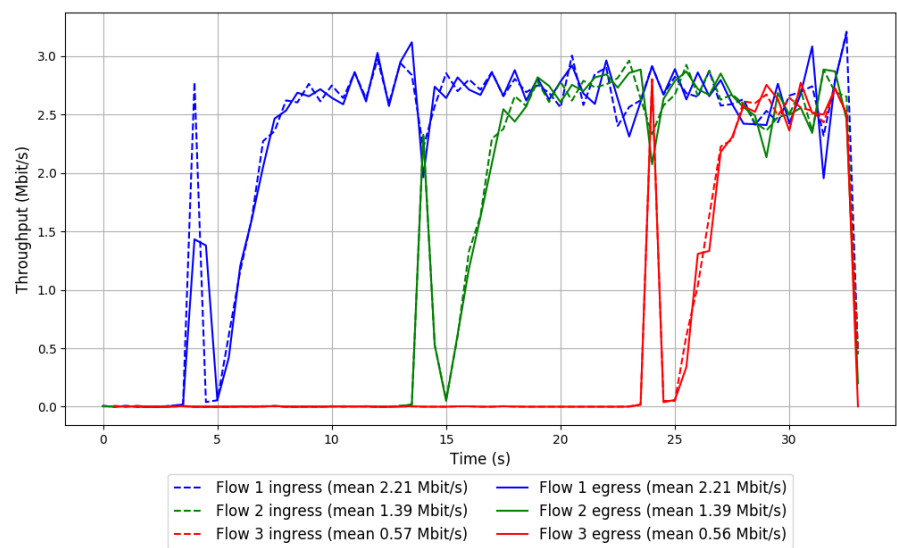
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.529 ms

Loss rate: 1.89%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

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

End at: 2018-01-27 01:04:29

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 63.470 ms

Loss rate: 0.64%

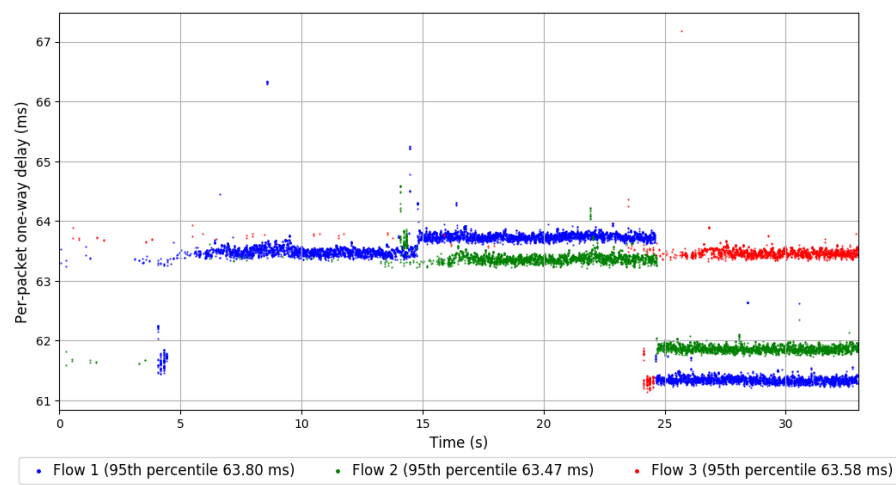
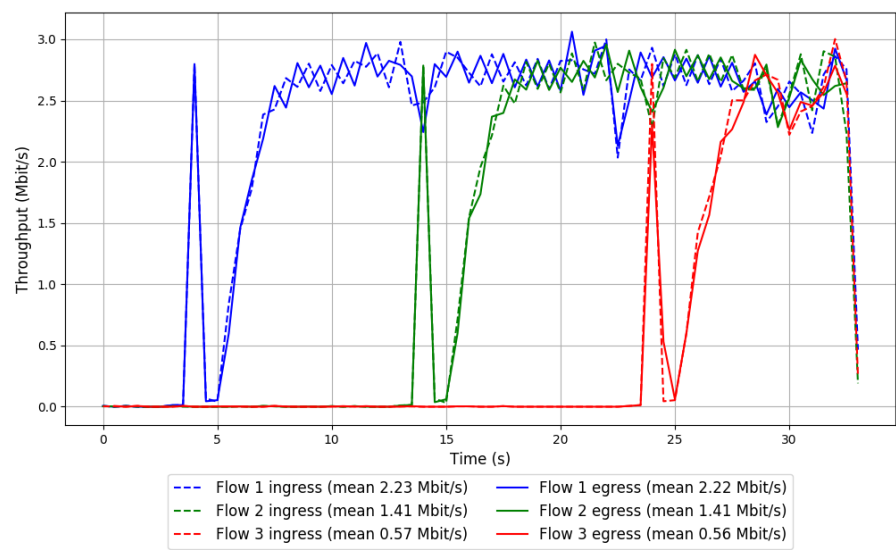
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.579 ms

Loss rate: 2.21%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-27 01:18:20

End at: 2018-01-27 01:18:50

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 63.864 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.771 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.454 ms

Loss rate: 0.65%

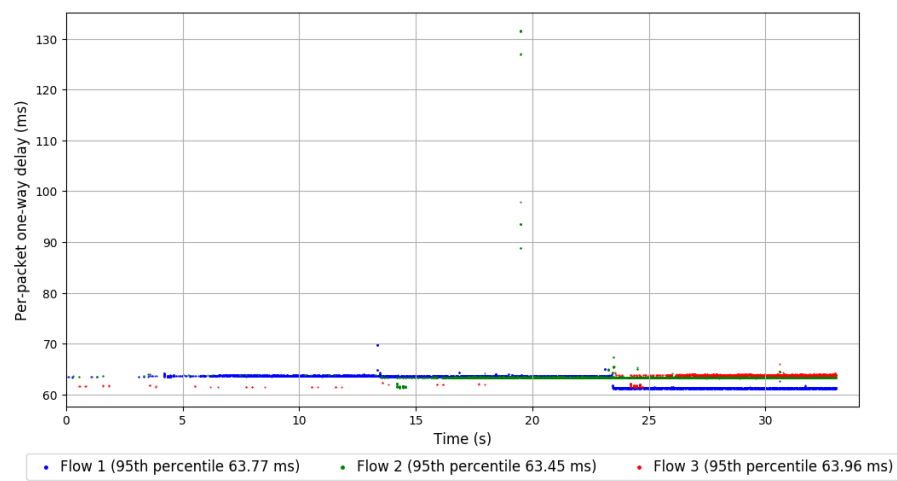
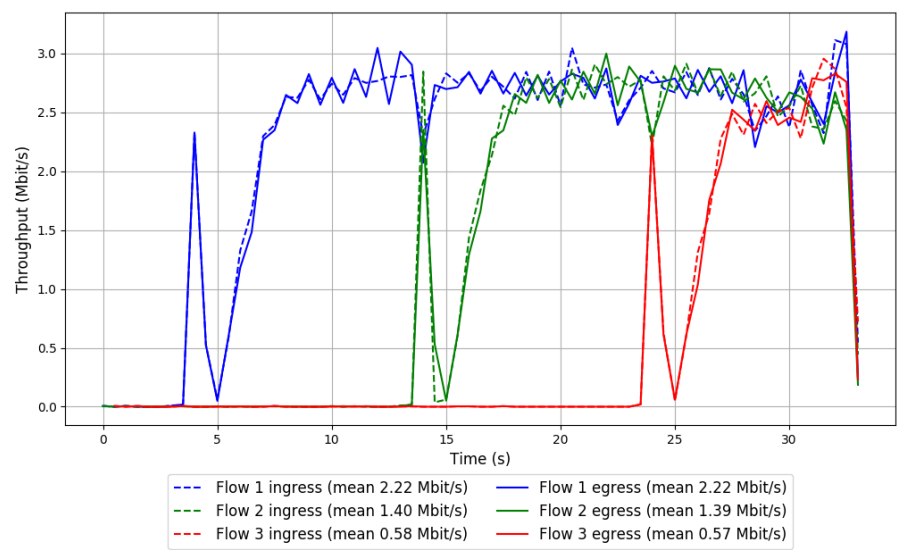
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.956 ms

Loss rate: 1.91%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-27 01:32:59

End at: 2018-01-27 01:33:29

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 63.875 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.911 ms

Loss rate: 0.69%

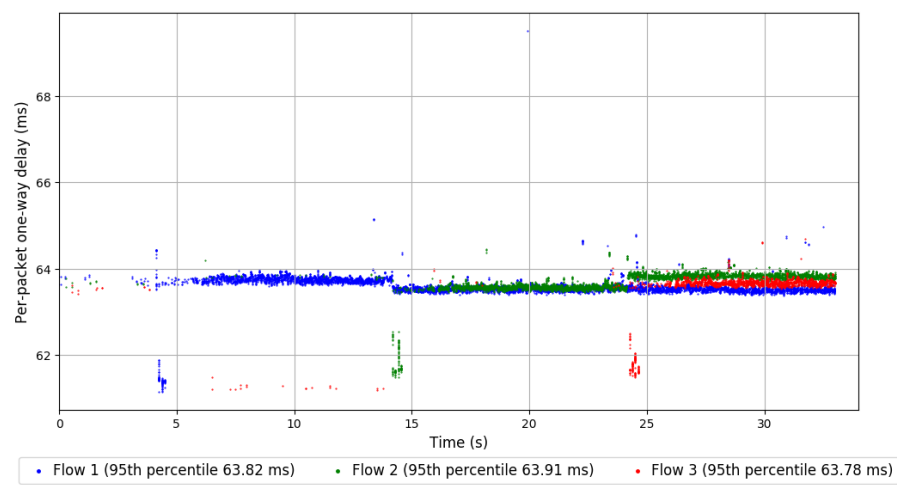
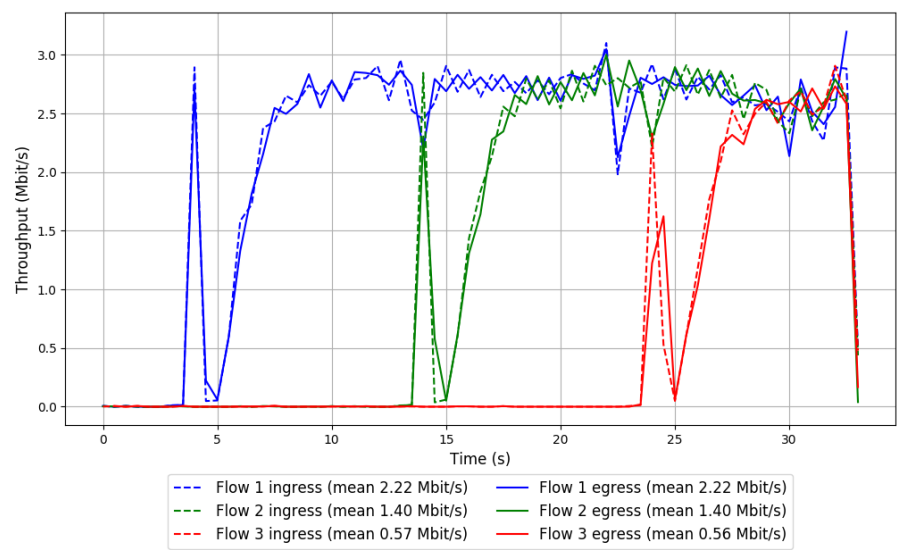
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 2.03%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-27 01:47:51

End at: 2018-01-27 01:48:21

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.849 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.836 ms

Loss rate: 0.69%

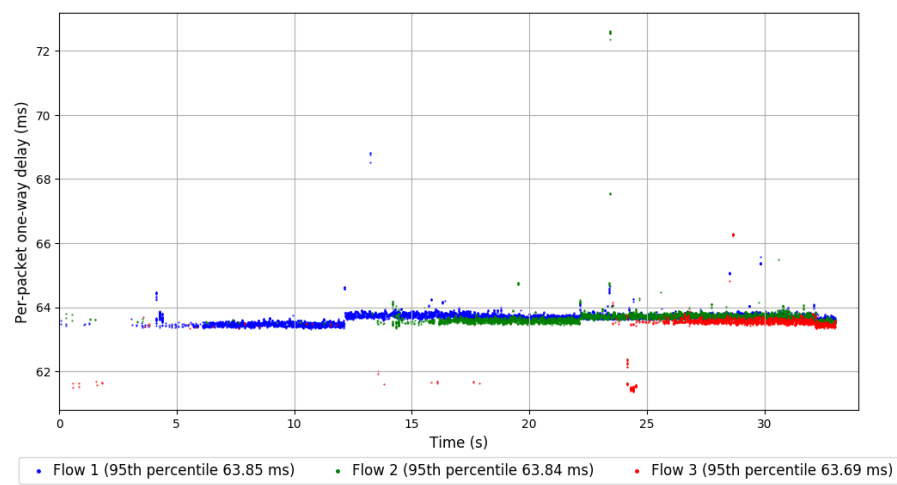
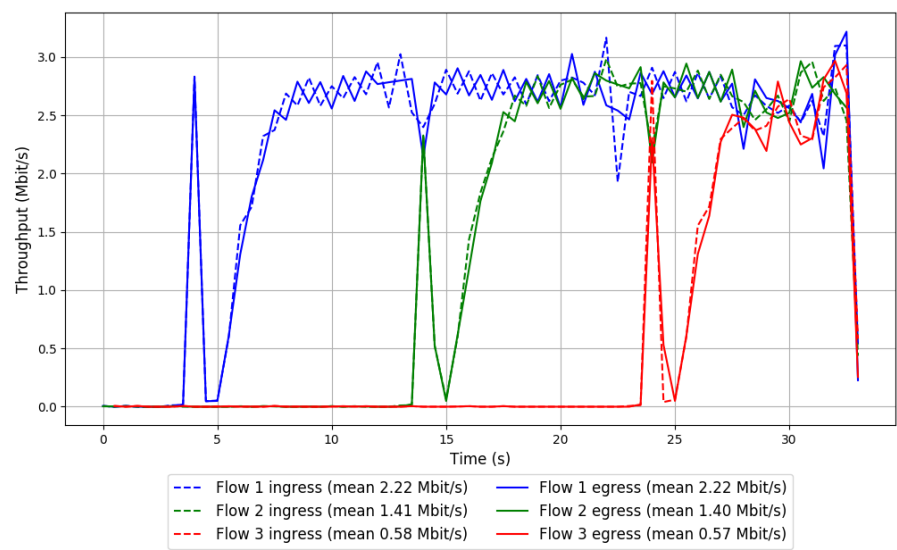
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.685 ms

Loss rate: 2.24%

Run 10: Report of WebRTC media — Data Link

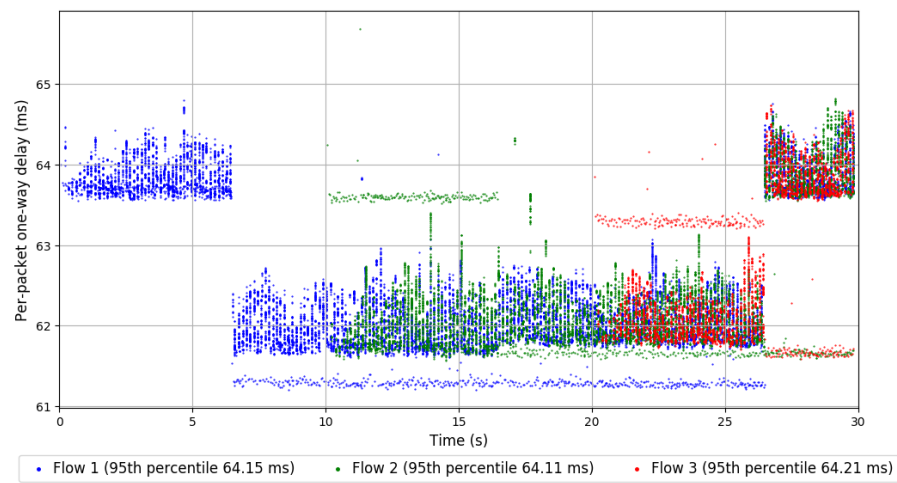
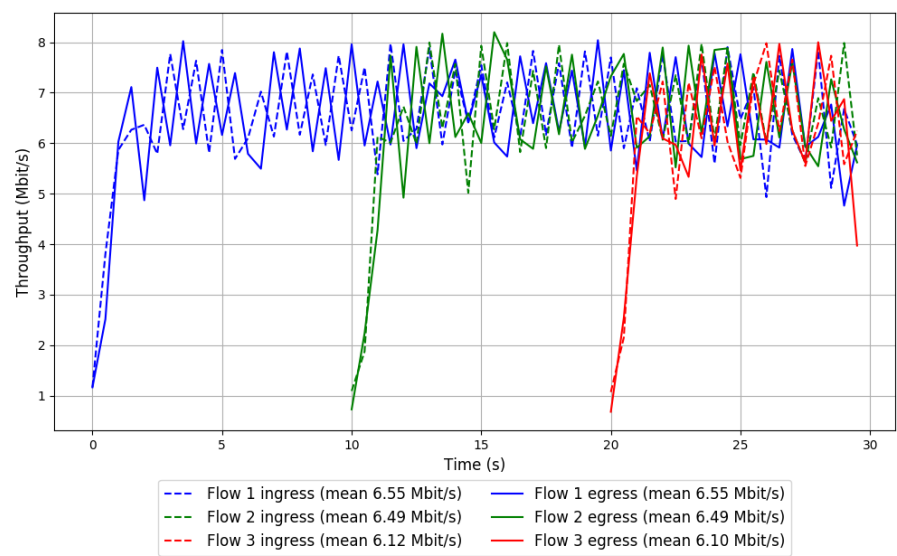


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 23:47:23
End at: 2018-01-26 23:47:53

# Below is generated by plot.py at 2018-01-27 05:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 64.154 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 64.151 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 64.108 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 64.207 ms
Loss rate: 1.88%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-27 00:01:49

End at: 2018-01-27 00:02:19

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 64.041 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.008 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.128 ms

Loss rate: 0.86%

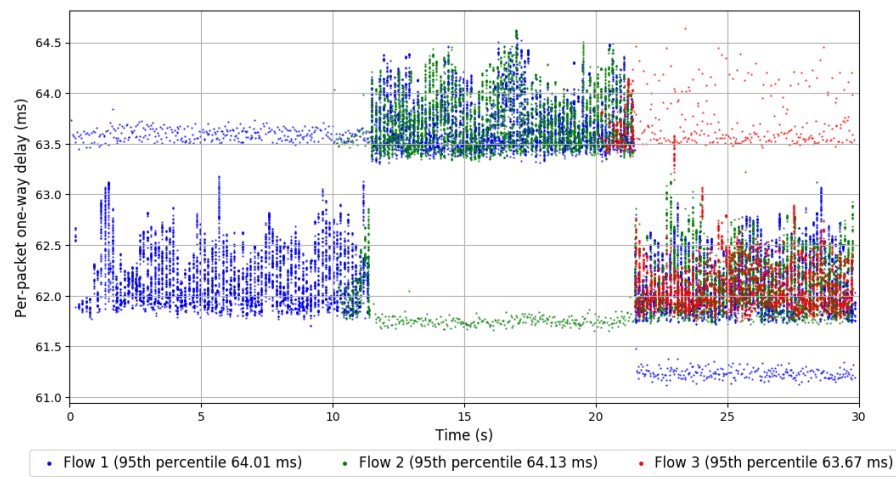
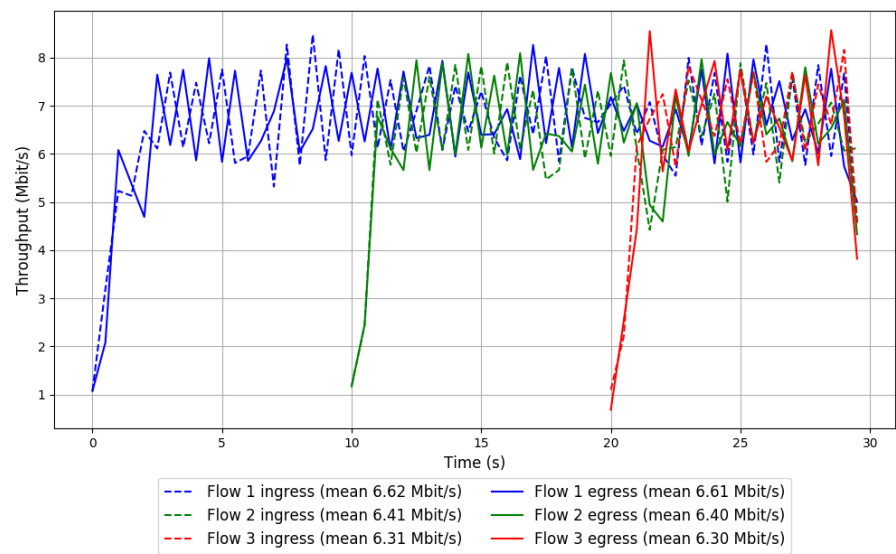
-- Flow 3:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 1.70%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-27 00:16:36

End at: 2018-01-27 00:17:06

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 64.277 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.284 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 64.269 ms

Loss rate: 0.87%

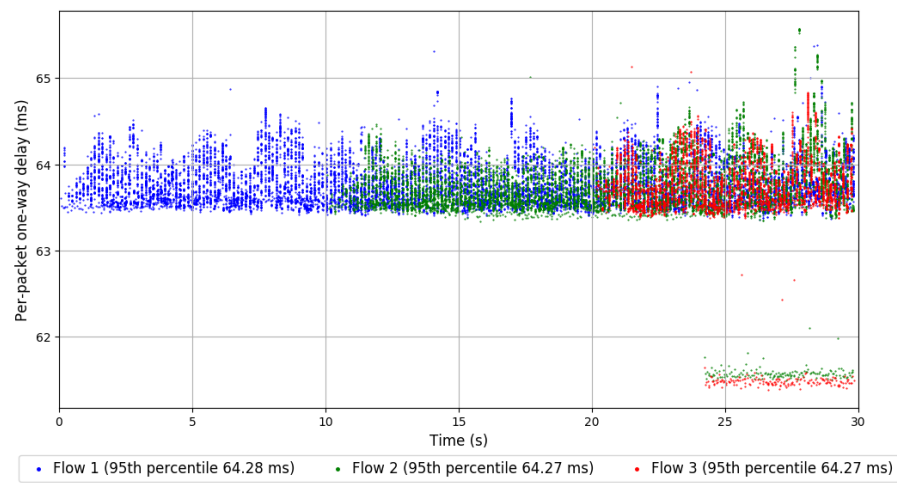
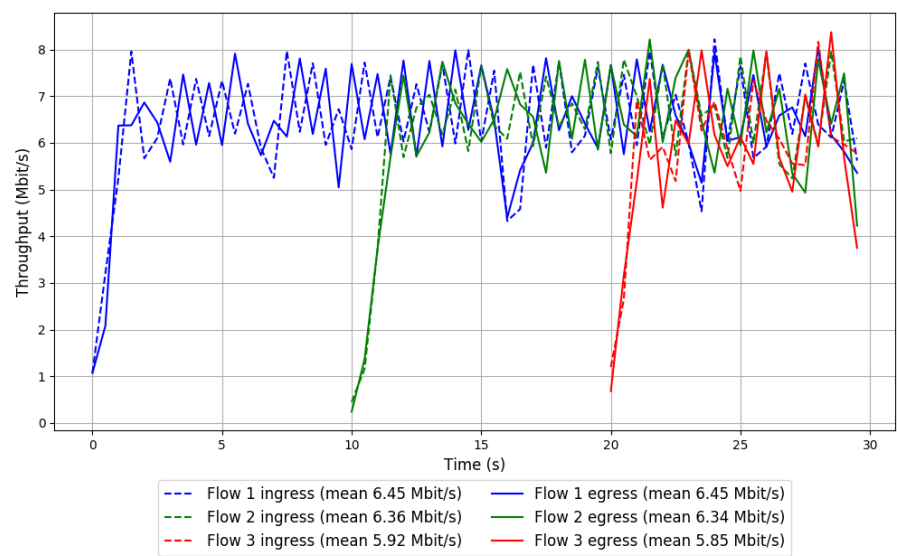
-- Flow 3:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 64.266 ms

Loss rate: 1.99%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-27 00:31:17

End at: 2018-01-27 00:31:47

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 64.260 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.191 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.364 ms

Loss rate: 0.80%

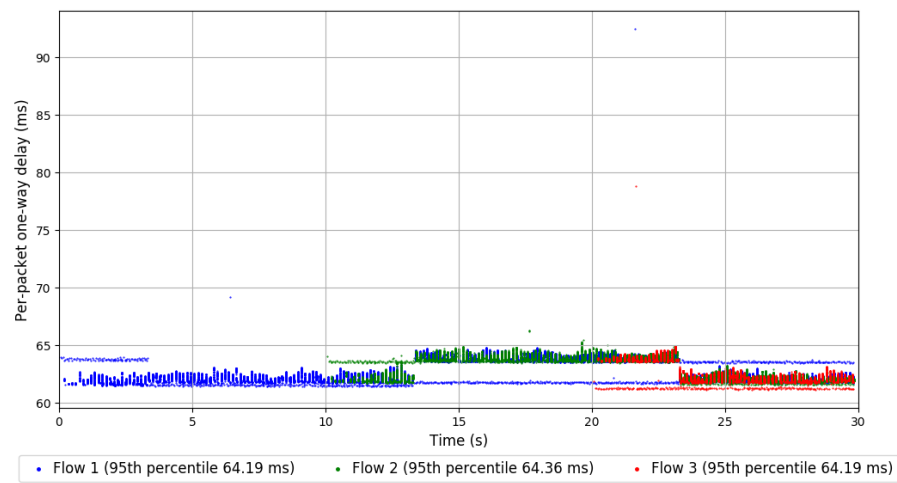
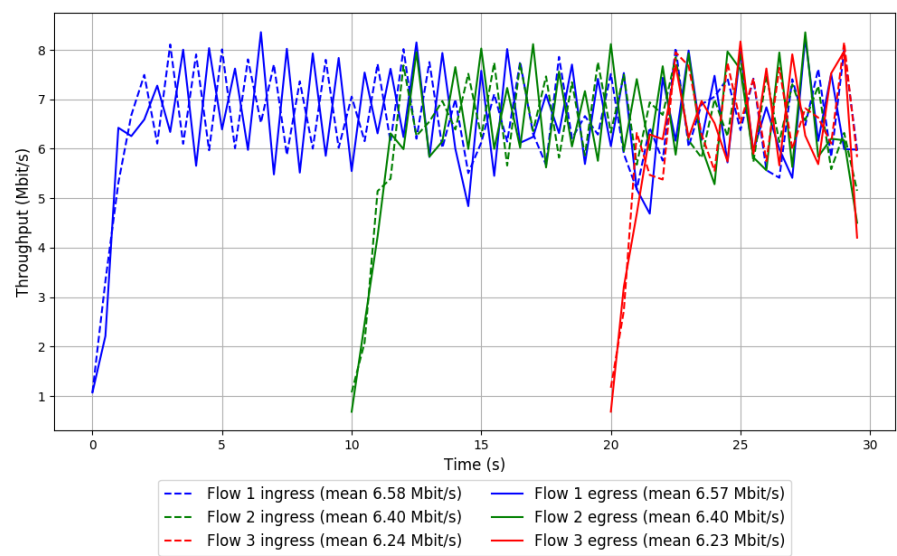
-- Flow 3:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 64.192 ms

Loss rate: 1.64%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-27 00:46:11

End at: 2018-01-27 00:46:41

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 64.319 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 64.339 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.09%

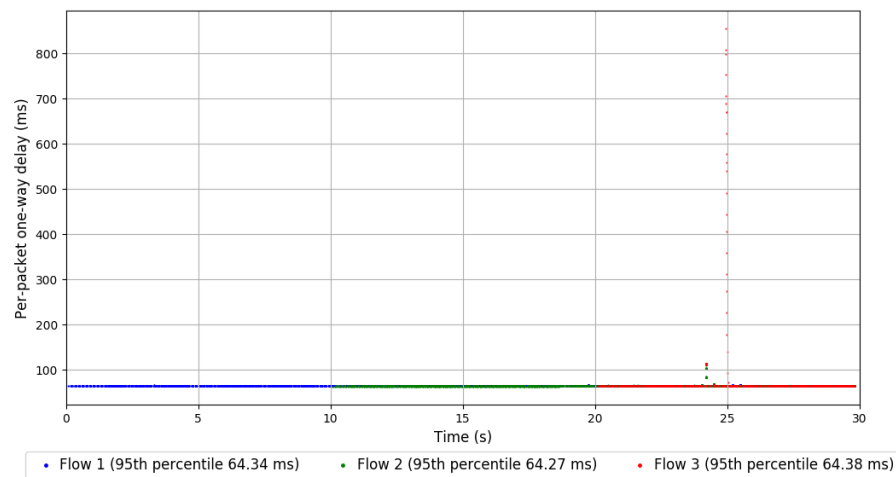
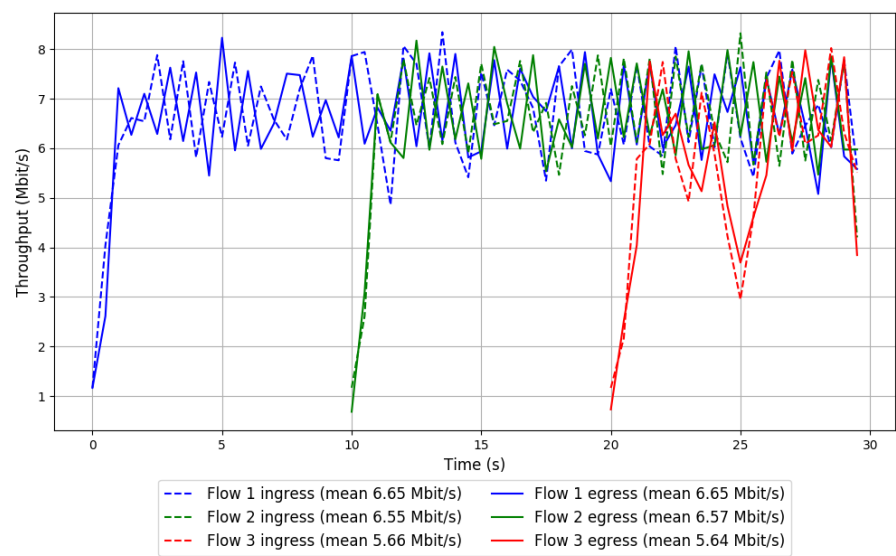
-- Flow 3:

Average throughput: 5.64 Mbit/s

95th percentile per-packet one-way delay: 64.376 ms

Loss rate: 1.91%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-27 01:00:56

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

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.332 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 64.163 ms

Loss rate: 0.05%

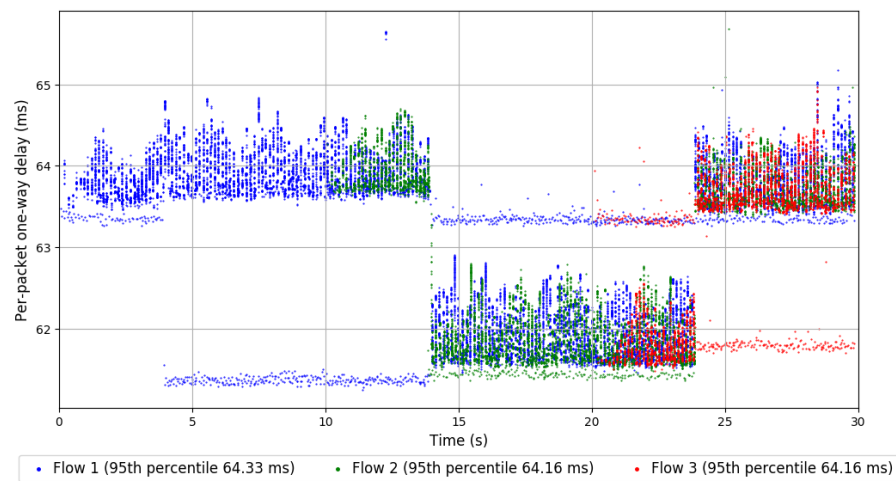
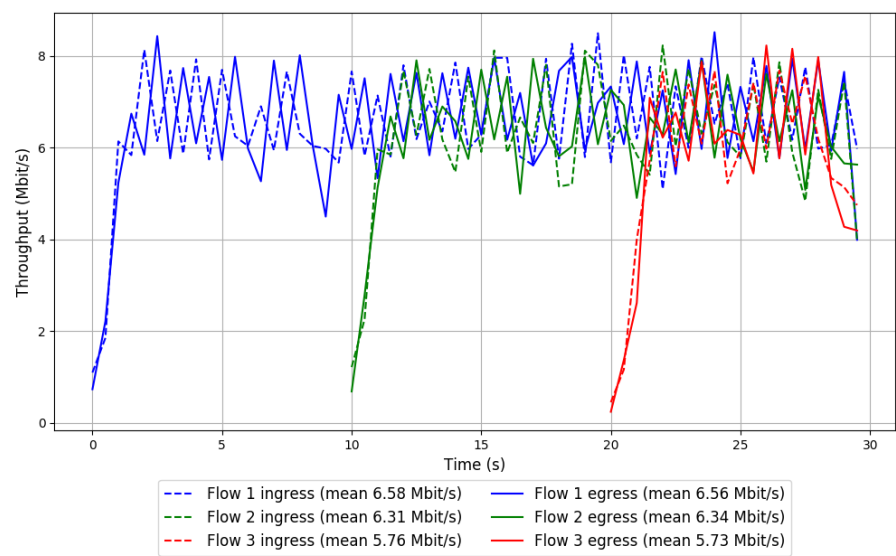
-- Flow 3:

Average throughput: 5.73 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 1.57%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-27 01:15:40

End at: 2018-01-27 01:16:10

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 64.183 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.116 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.34%

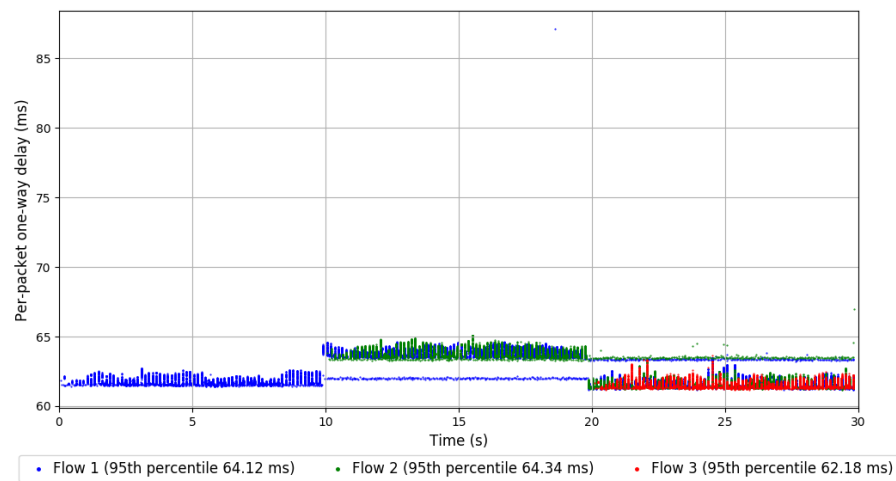
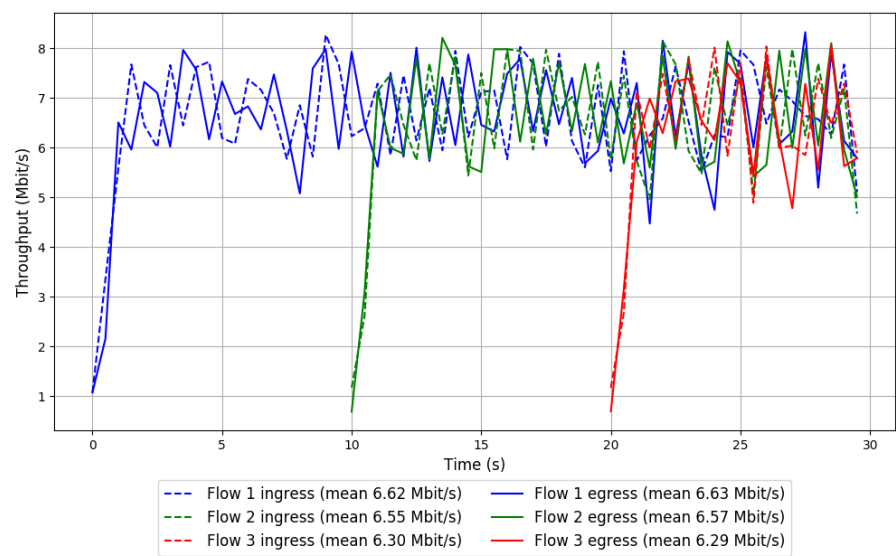
-- Flow 3:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 62.179 ms

Loss rate: 1.60%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-27 01:30:05

End at: 2018-01-27 01:30:35

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 64.166 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.147 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 64.188 ms

Loss rate: 0.79%

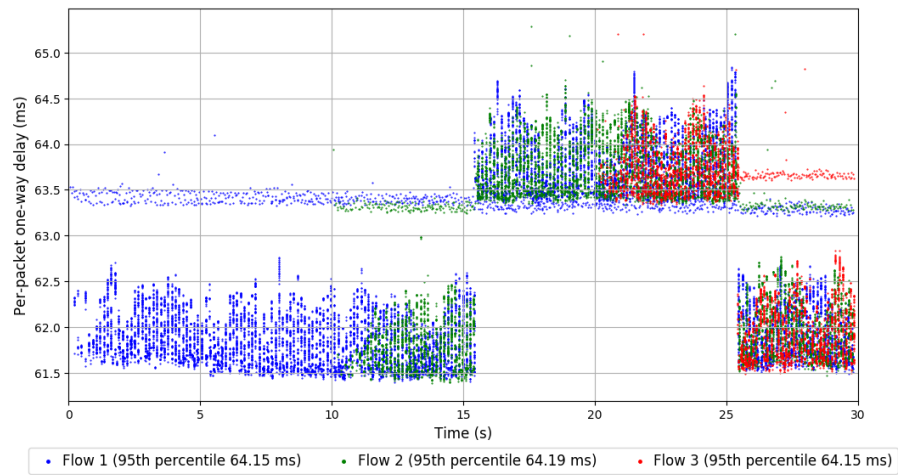
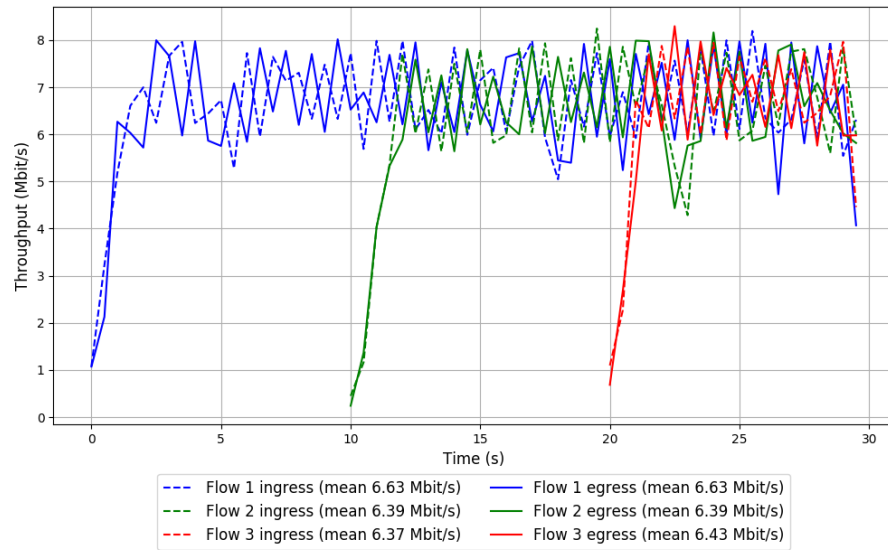
-- Flow 3:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.153 ms

Loss rate: 0.37%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-27 01:44:48

End at: 2018-01-27 01:45:18

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 64.295 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.175 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.314 ms

Loss rate: 0.09%

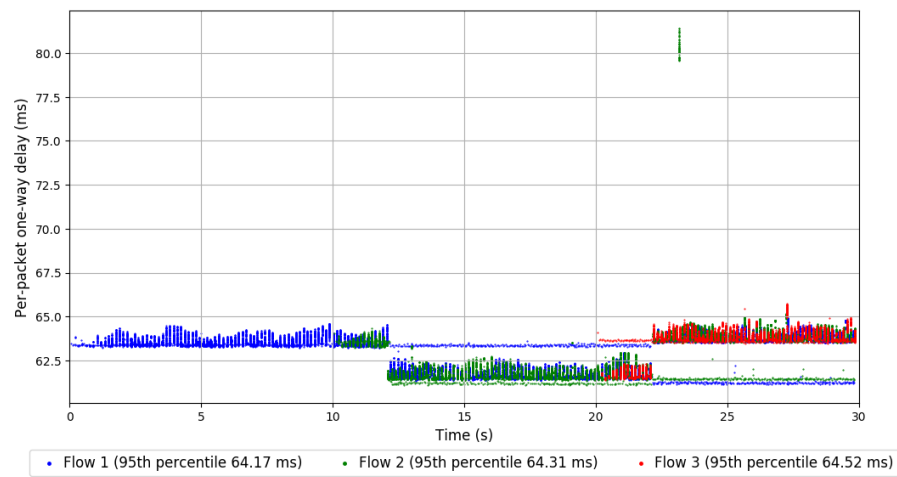
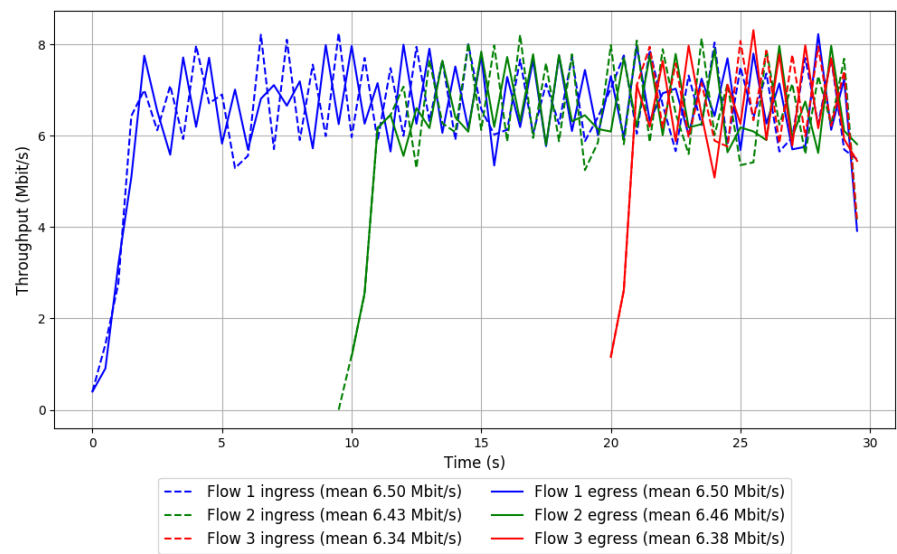
-- Flow 3:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 64.519 ms

Loss rate: 0.37%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-27 01:59:36

End at: 2018-01-27 02:00:06

Below is generated by plot.py at 2018-01-27 05:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 62.448 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 62.460 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 62.443 ms

Loss rate: 0.18%

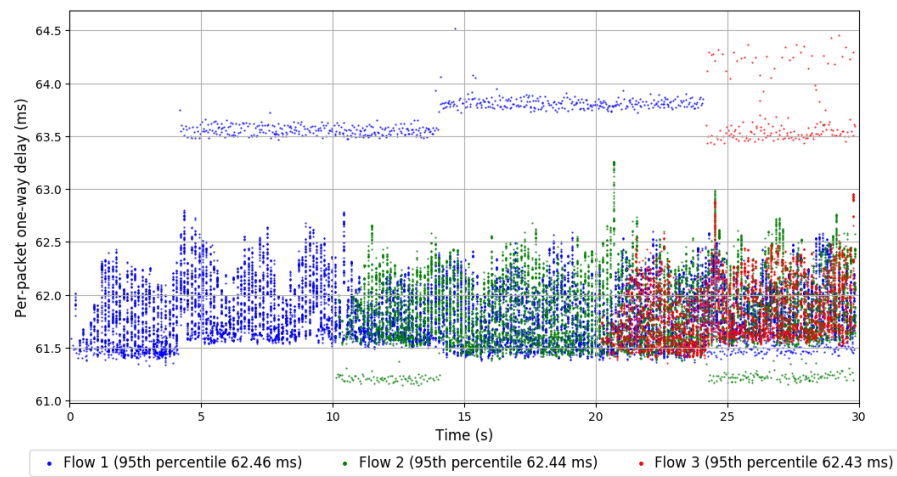
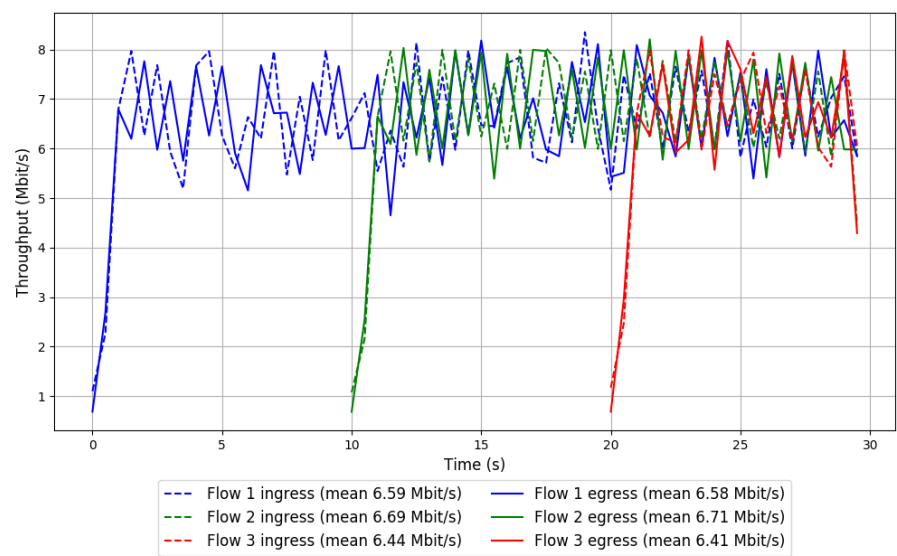
-- Flow 3:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 62.432 ms

Loss rate: 1.53%

Run 10: Report of Sprout — Data Link

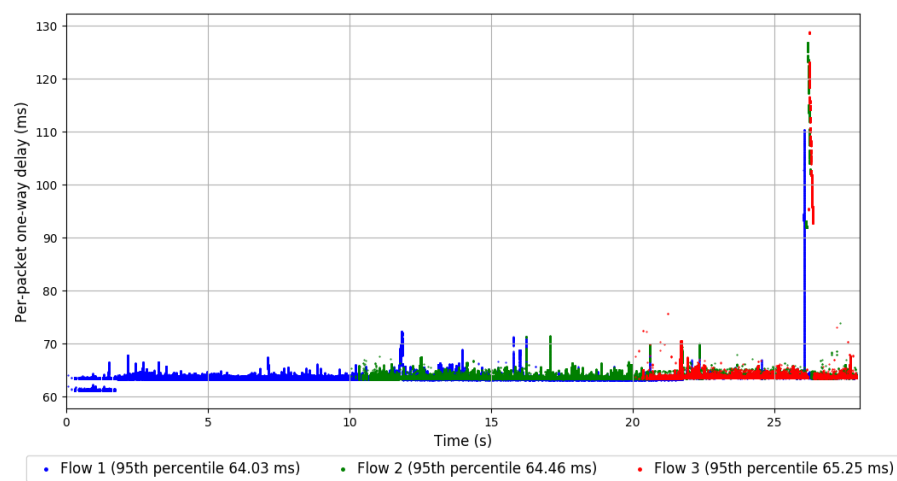
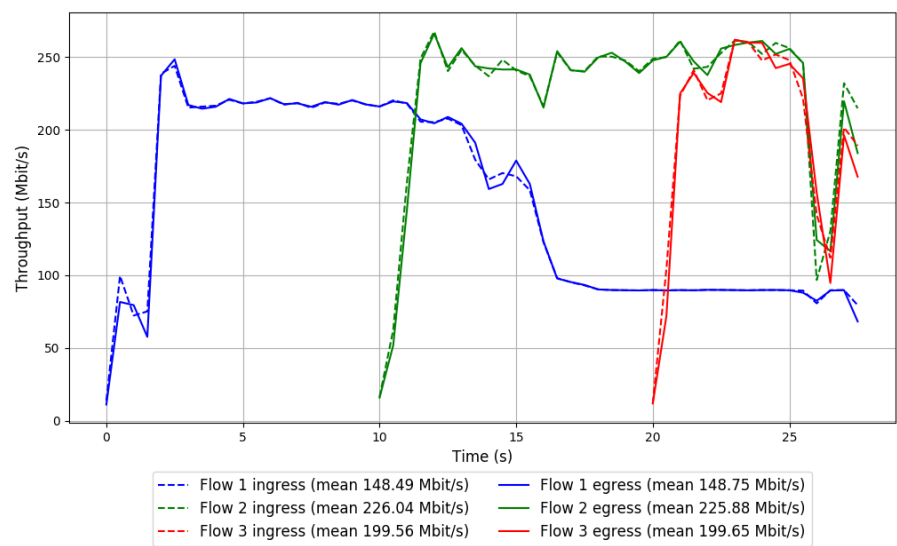


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 23:33:16
End at: 2018-01-26 23:33:46

# Below is generated by plot.py at 2018-01-27 05:09:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.30 Mbit/s
95th percentile per-packet one-way delay: 64.351 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 148.75 Mbit/s
95th percentile per-packet one-way delay: 64.030 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 225.88 Mbit/s
95th percentile per-packet one-way delay: 64.463 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 199.65 Mbit/s
95th percentile per-packet one-way delay: 65.249 ms
Loss rate: 1.54%
```


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

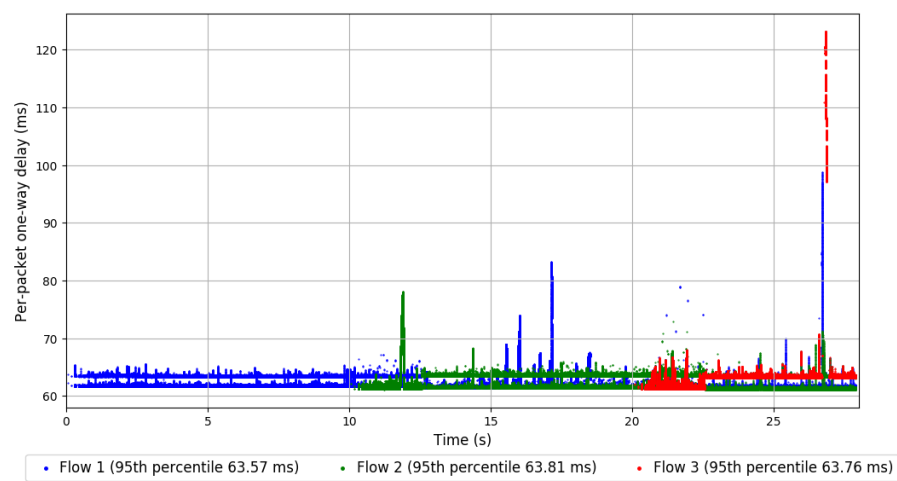
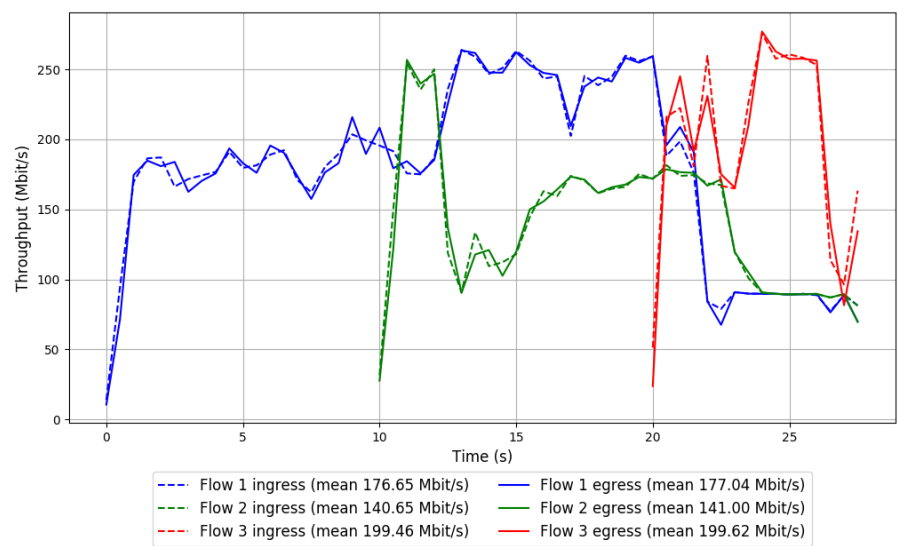


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 23:48:05
End at: 2018-01-26 23:48:35

# Below is generated by plot.py at 2018-01-27 05:09:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.35 Mbit/s
95th percentile per-packet one-way delay: 63.731 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 177.04 Mbit/s
95th percentile per-packet one-way delay: 63.566 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 141.00 Mbit/s
95th percentile per-packet one-way delay: 63.810 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 199.62 Mbit/s
95th percentile per-packet one-way delay: 63.761 ms
Loss rate: 1.53%
```

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

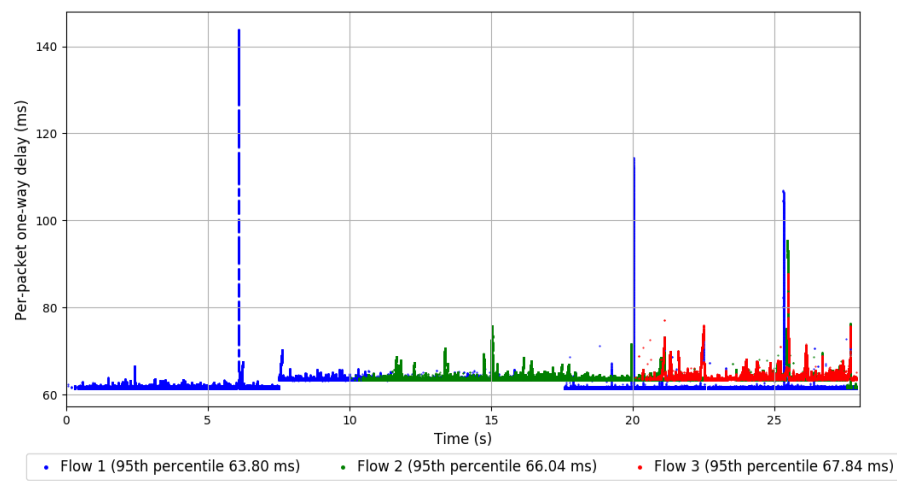
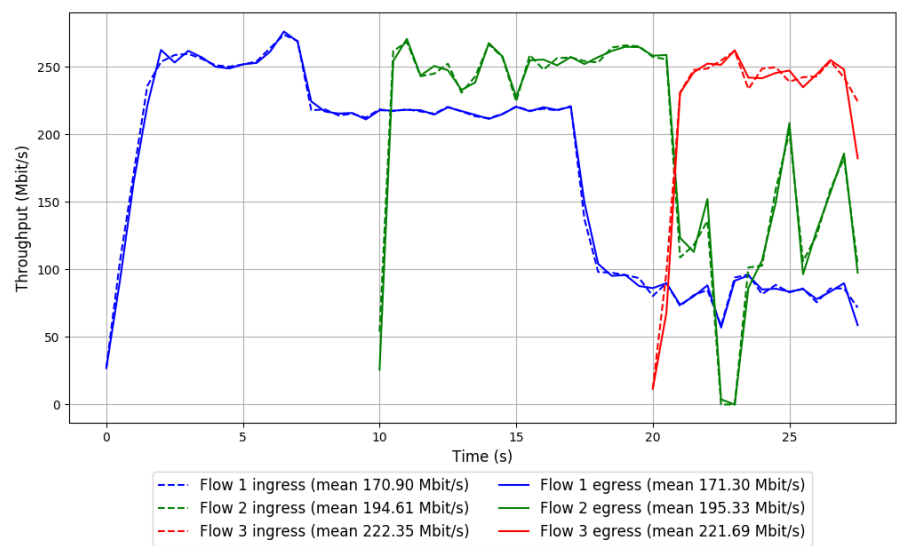


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-27 00:02:31
End at: 2018-01-27 00:03:01

# Below is generated by plot.py at 2018-01-27 05:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.52 Mbit/s
95th percentile per-packet one-way delay: 65.591 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 171.30 Mbit/s
95th percentile per-packet one-way delay: 63.799 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 195.33 Mbit/s
95th percentile per-packet one-way delay: 66.038 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 221.69 Mbit/s
95th percentile per-packet one-way delay: 67.845 ms
Loss rate: 1.90%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-27 00:17:18

End at: 2018-01-27 00:17:48

Below is generated by plot.py at 2018-01-27 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.51 Mbit/s

95th percentile per-packet one-way delay: 66.355 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 211.88 Mbit/s

95th percentile per-packet one-way delay: 63.501 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 45.57 Mbit/s

95th percentile per-packet one-way delay: 74.168 ms

Loss rate: 3.41%

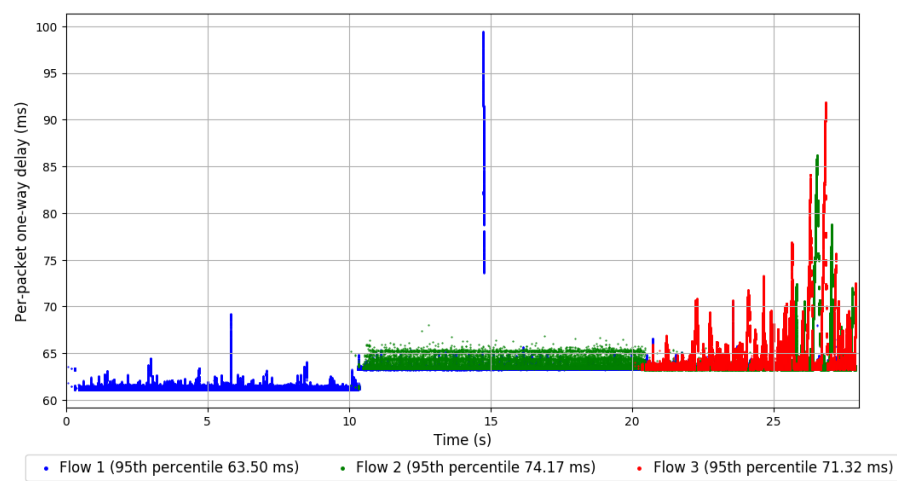
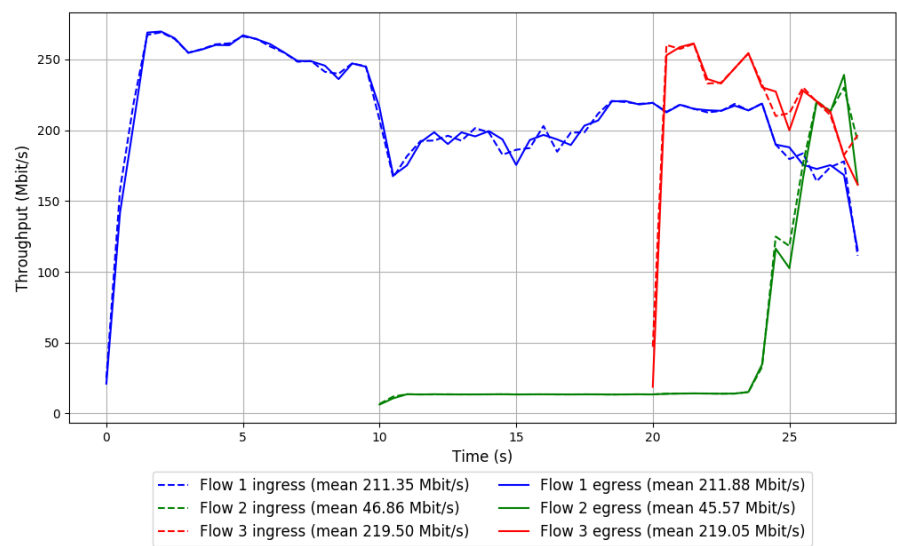
-- Flow 3:

Average throughput: 219.05 Mbit/s

95th percentile per-packet one-way delay: 71.317 ms

Loss rate: 1.82%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-27 00:31:59

End at: 2018-01-27 00:32:29

Below is generated by plot.py at 2018-01-27 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.82 Mbit/s

95th percentile per-packet one-way delay: 68.367 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 189.72 Mbit/s

95th percentile per-packet one-way delay: 64.851 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 151.10 Mbit/s

95th percentile per-packet one-way delay: 74.678 ms

Loss rate: 0.42%

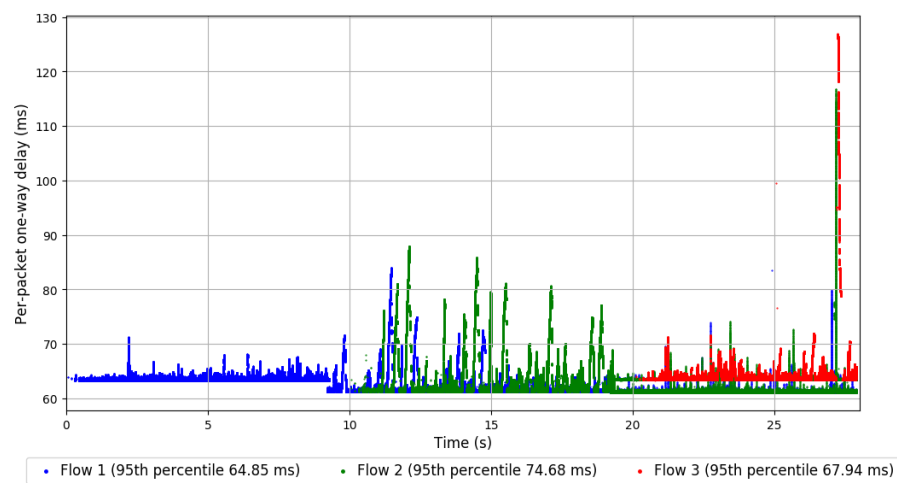
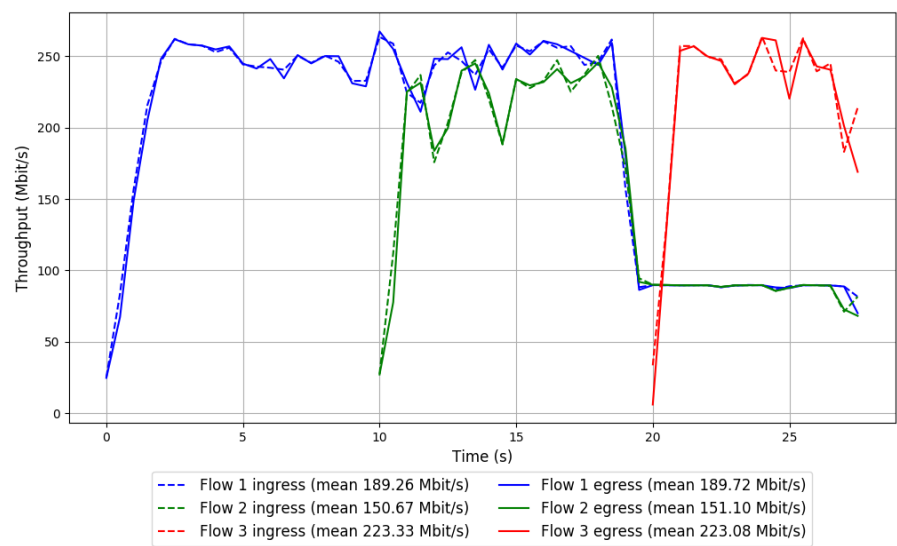
-- Flow 3:

Average throughput: 223.08 Mbit/s

95th percentile per-packet one-way delay: 67.936 ms

Loss rate: 1.73%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-27 00:46:53

End at: 2018-01-27 00:47:23

Below is generated by plot.py at 2018-01-27 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.53 Mbit/s

95th percentile per-packet one-way delay: 66.399 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 215.81 Mbit/s

95th percentile per-packet one-way delay: 66.875 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 140.72 Mbit/s

95th percentile per-packet one-way delay: 65.149 ms

Loss rate: 0.07%

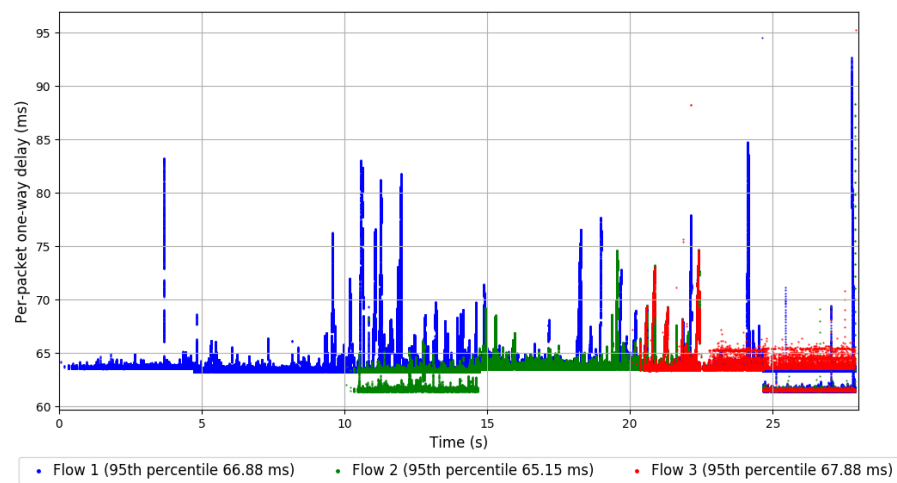
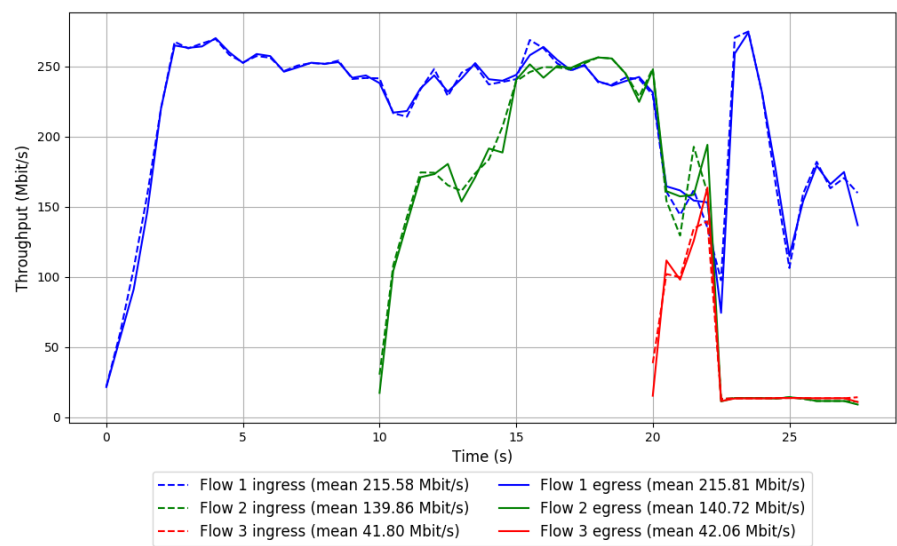
-- Flow 3:

Average throughput: 42.06 Mbit/s

95th percentile per-packet one-way delay: 67.878 ms

Loss rate: 0.76%

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

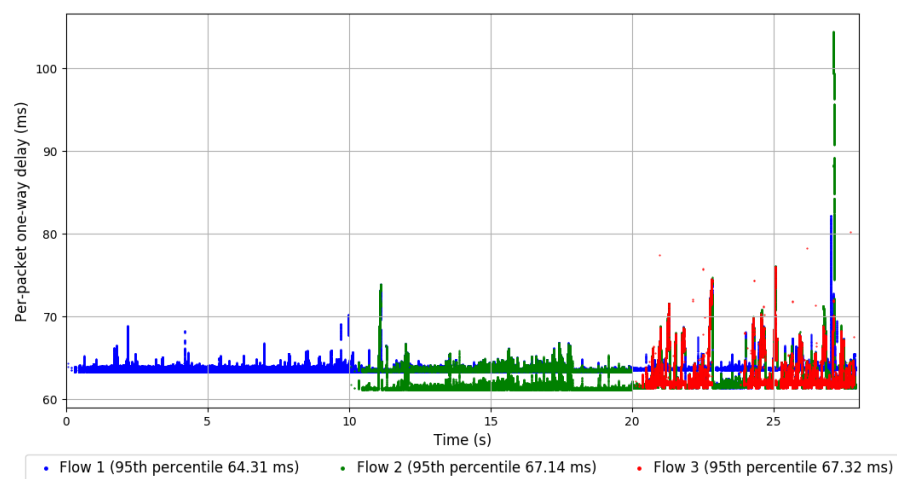
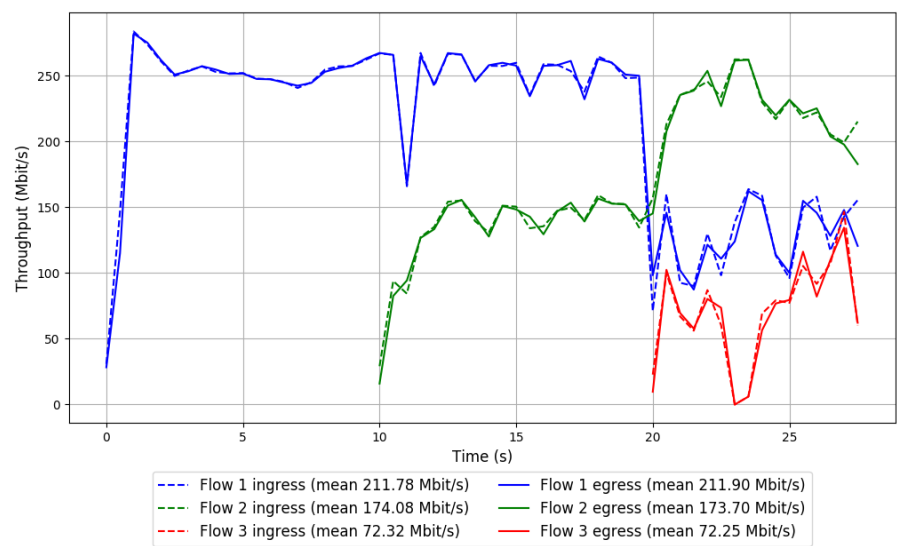


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-27 01:01:38
End at: 2018-01-27 01:02:08

# Below is generated by plot.py at 2018-01-27 05:10:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.21 Mbit/s
95th percentile per-packet one-way delay: 65.502 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 211.90 Mbit/s
95th percentile per-packet one-way delay: 64.305 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 173.70 Mbit/s
95th percentile per-packet one-way delay: 67.145 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 72.25 Mbit/s
95th percentile per-packet one-way delay: 67.322 ms
Loss rate: 1.71%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-27 01:16:22

End at: 2018-01-27 01:16:52

Below is generated by plot.py at 2018-01-27 05:11:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.15 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 63.919 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.58%

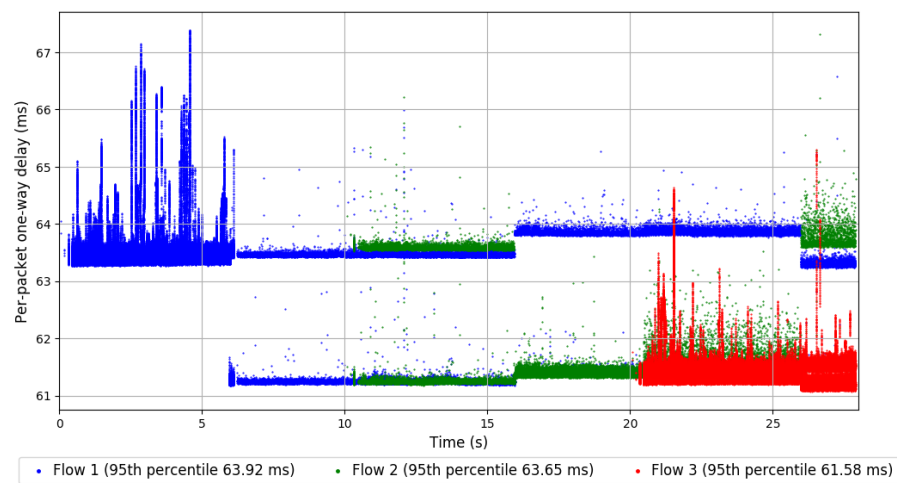
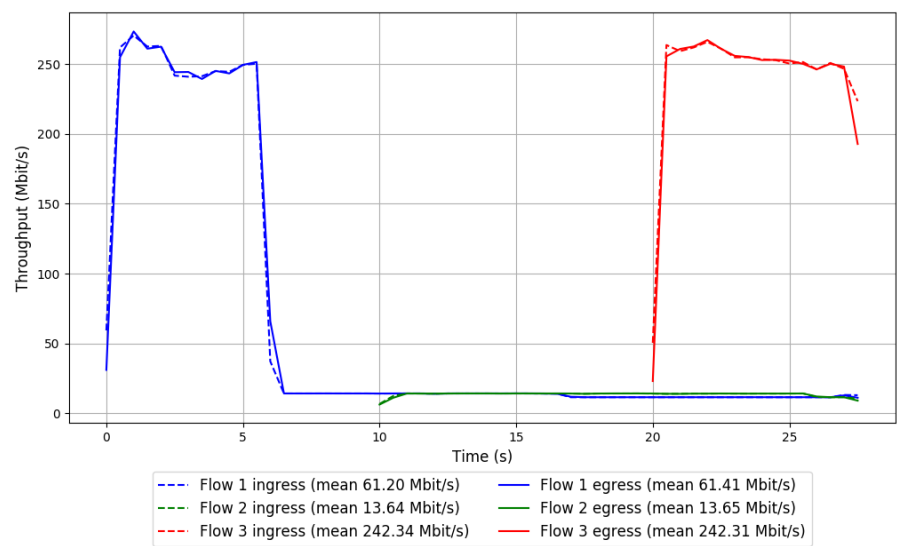
-- Flow 3:

Average throughput: 242.31 Mbit/s

95th percentile per-packet one-way delay: 61.579 ms

Loss rate: 1.56%

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

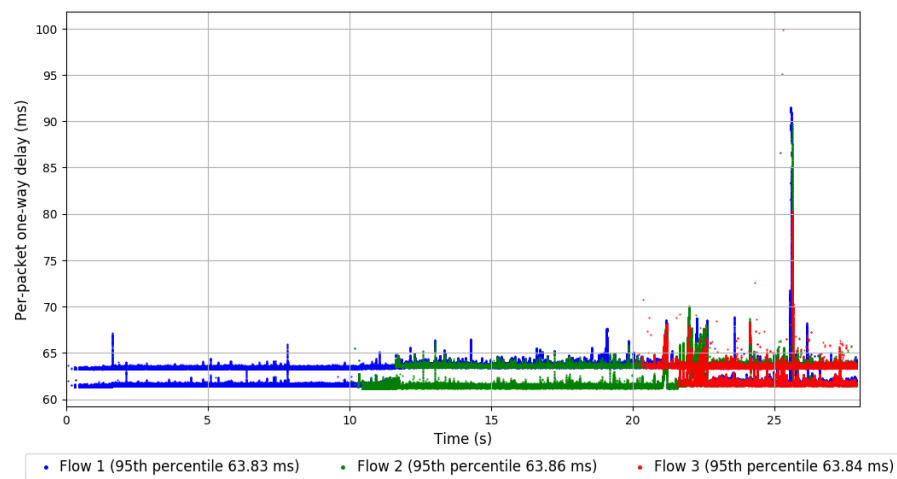
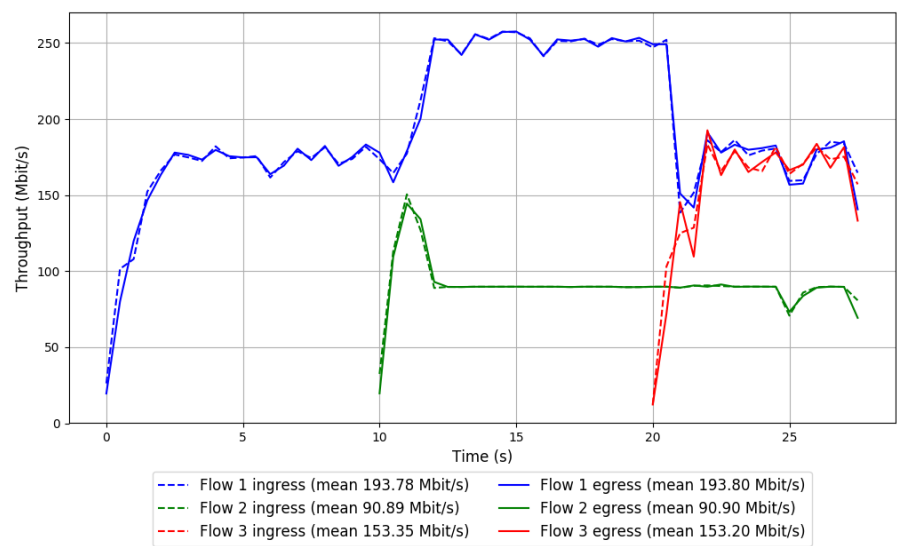


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-27 01:30:46
End at: 2018-01-27 01:31:16

# Below is generated by plot.py at 2018-01-27 05:16:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.99 Mbit/s
95th percentile per-packet one-way delay: 63.836 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 193.80 Mbit/s
95th percentile per-packet one-way delay: 63.827 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 63.861 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 153.20 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 1.71%
```


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

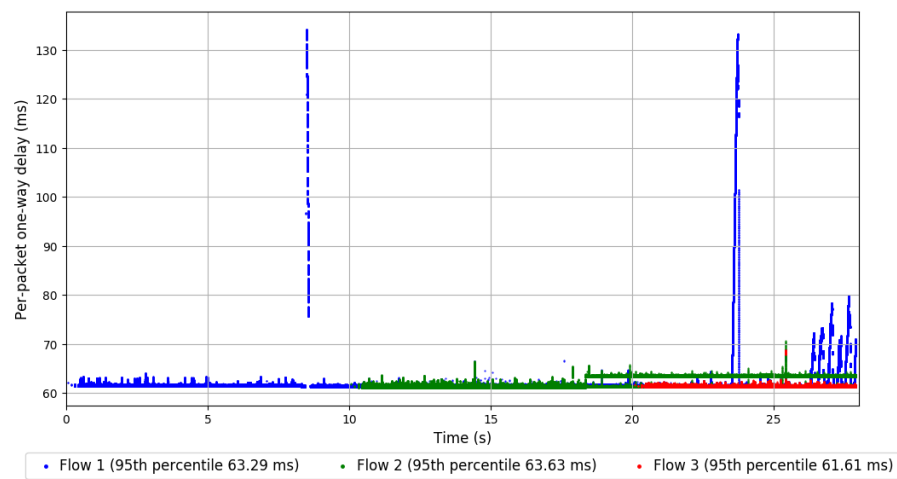
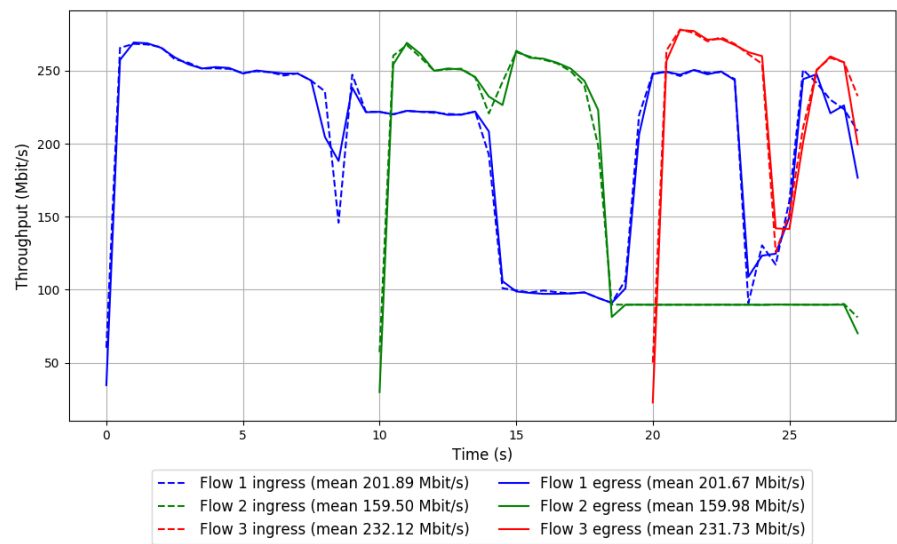


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-27 01:45:30
End at: 2018-01-27 01:46:00

# Below is generated by plot.py at 2018-01-27 05:19:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.07 Mbit/s
95th percentile per-packet one-way delay: 63.574 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 201.67 Mbit/s
95th percentile per-packet one-way delay: 63.289 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 159.98 Mbit/s
95th percentile per-packet one-way delay: 63.633 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 231.73 Mbit/s
95th percentile per-packet one-way delay: 61.612 ms
Loss rate: 1.74%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 23:40:22

End at: 2018-01-26 23:40:52

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.67 Mbit/s

95th percentile per-packet one-way delay: 64.306 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 64.304 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: 64.360 ms

Loss rate: 0.50%

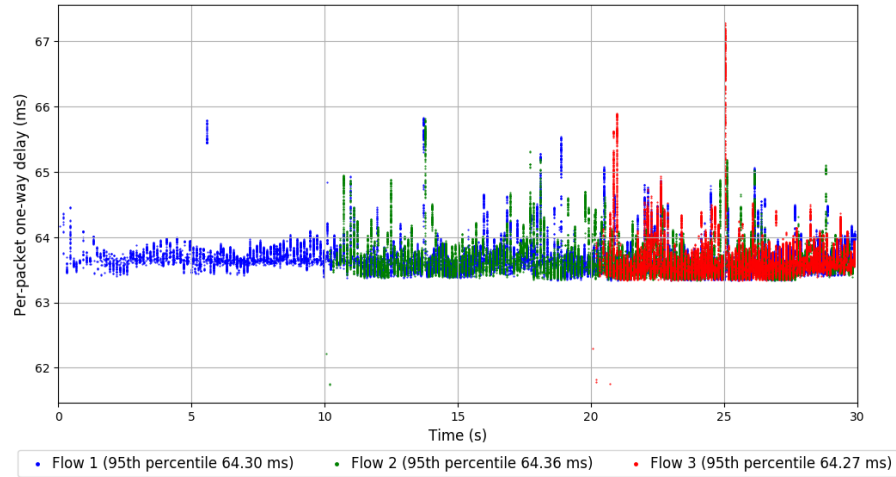
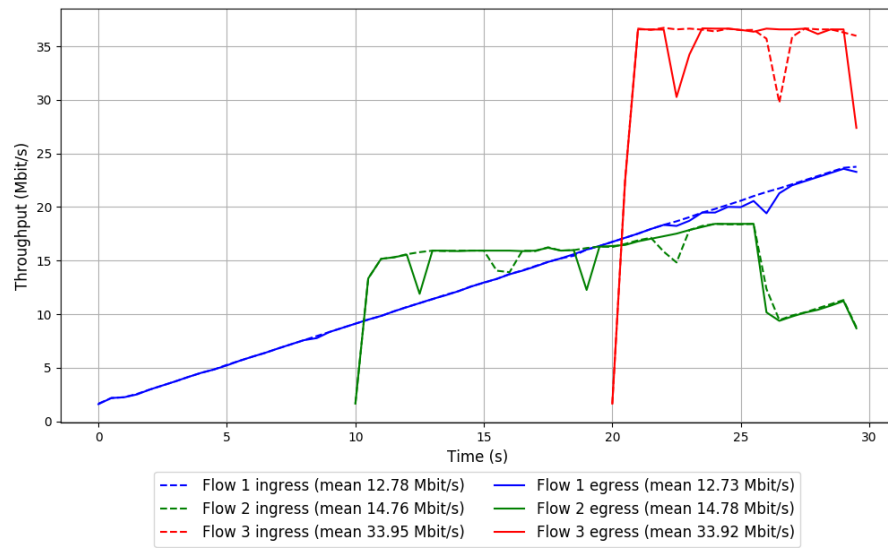
-- Flow 3:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 64.265 ms

Loss rate: 1.35%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 23:55:04

End at: 2018-01-26 23:55:34

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.10 Mbit/s

95th percentile per-packet one-way delay: 65.563 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 100.83 Mbit/s

95th percentile per-packet one-way delay: 65.447 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 65.805 ms

Loss rate: 0.44%

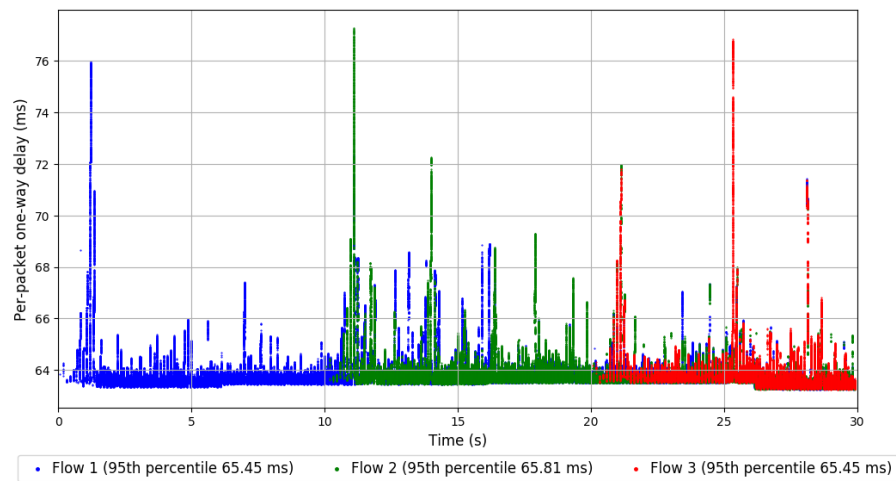
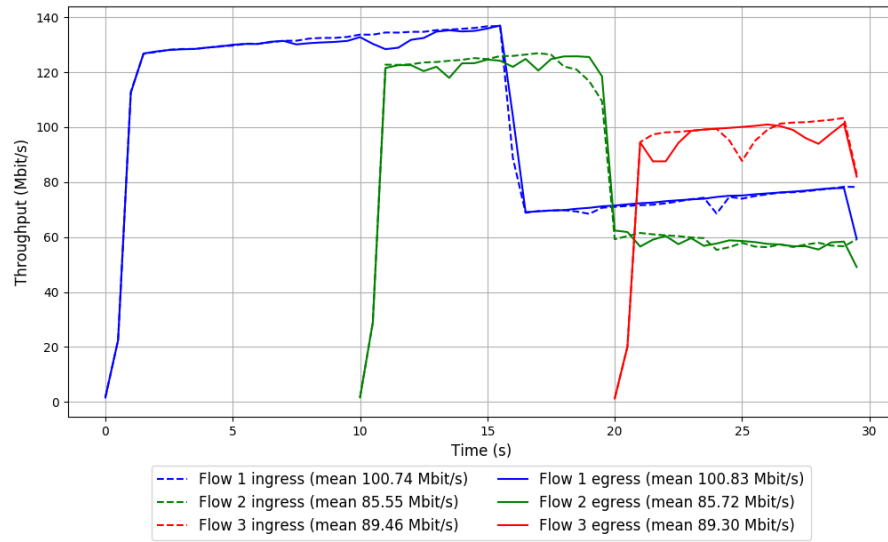
-- Flow 3:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 65.447 ms

Loss rate: 1.45%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-27 00:09:35

End at: 2018-01-27 00:10:05

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.65 Mbit/s

95th percentile per-packet one-way delay: 65.216 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 335.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.35 Mbit/s

95th percentile per-packet one-way delay: 64.222 ms

Loss rate: 0.56%

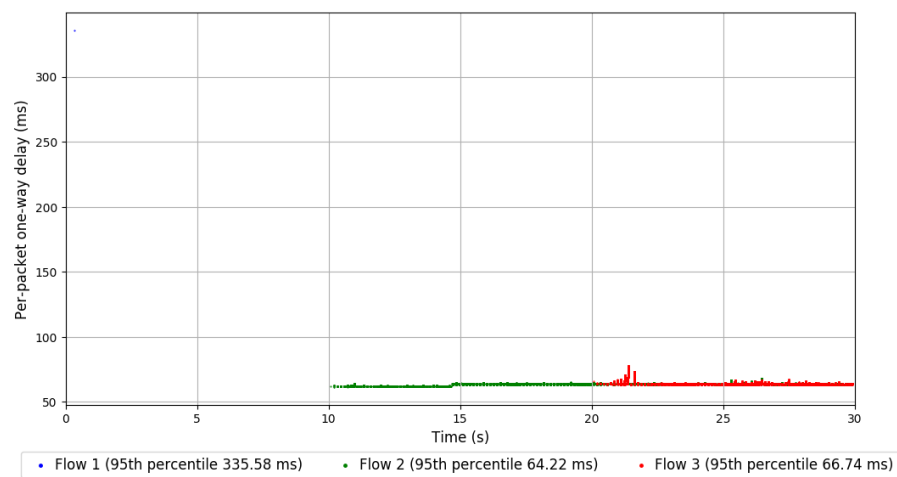
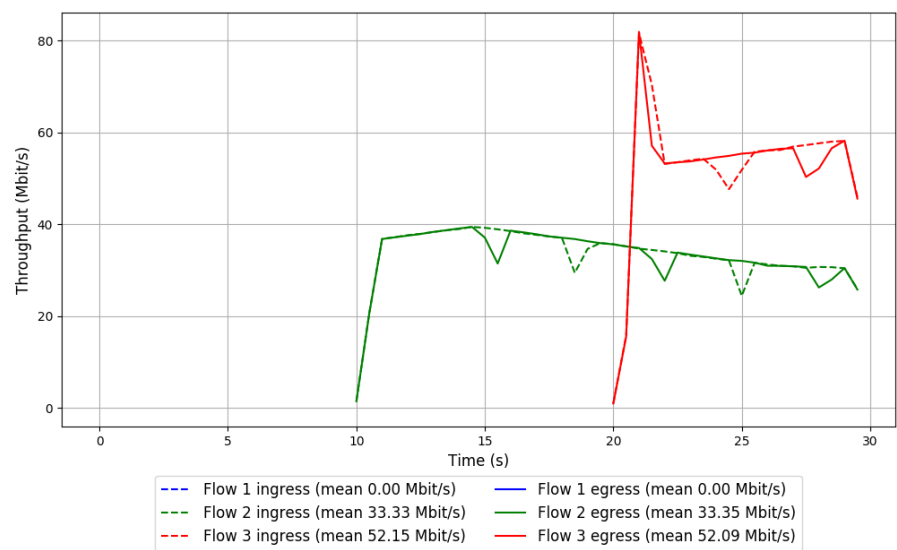
-- Flow 3:

Average throughput: 52.09 Mbit/s

95th percentile per-packet one-way delay: 66.743 ms

Loss rate: 1.41%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-27 00:24:17

End at: 2018-01-27 00:24:47

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.59 Mbit/s

95th percentile per-packet one-way delay: 65.153 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 65.830 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 64.198 ms

Loss rate: 1.63%

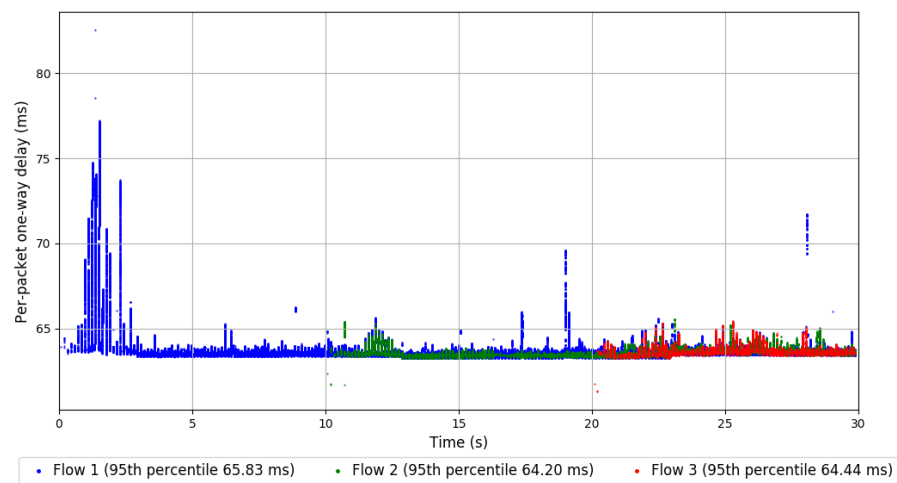
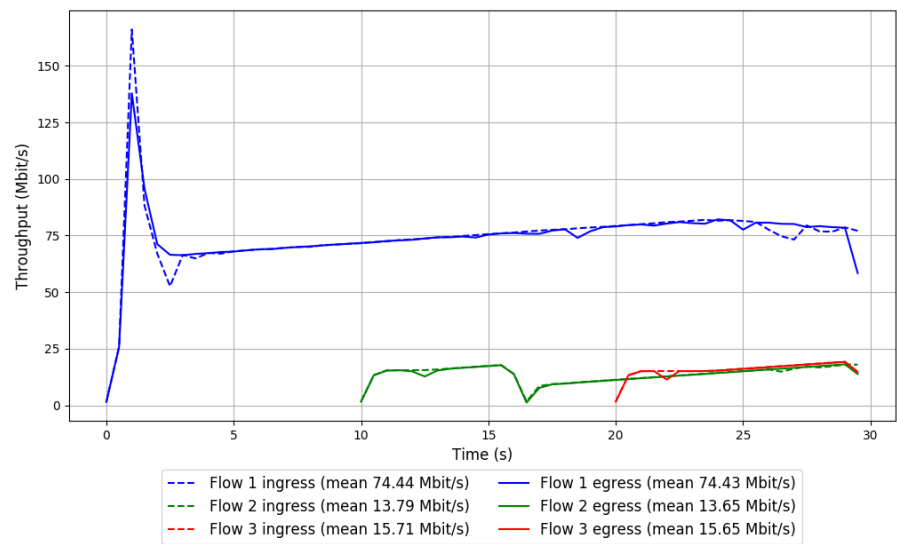
-- Flow 3:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 64.442 ms

Loss rate: 1.59%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-27 00:39:06

End at: 2018-01-27 00:39:36

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.73 Mbit/s

95th percentile per-packet one-way delay: 69.257 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 66.418 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 117.07 Mbit/s

95th percentile per-packet one-way delay: 68.968 ms

Loss rate: 0.16%

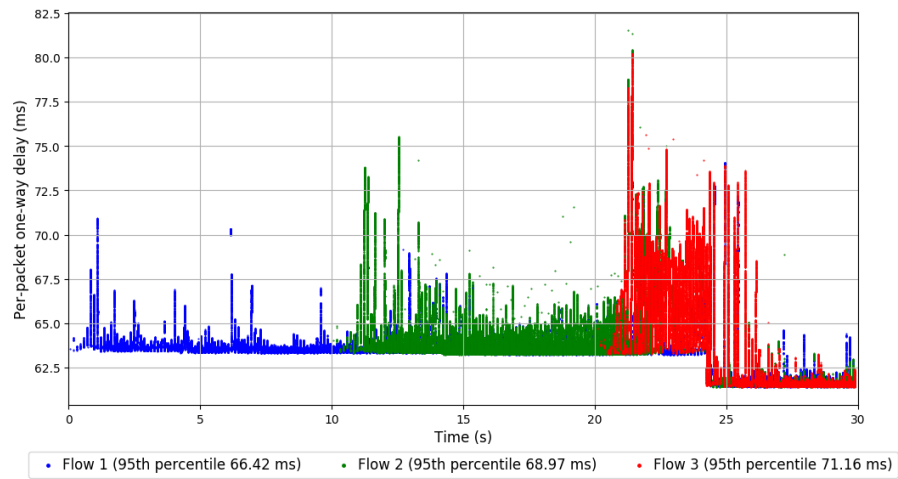
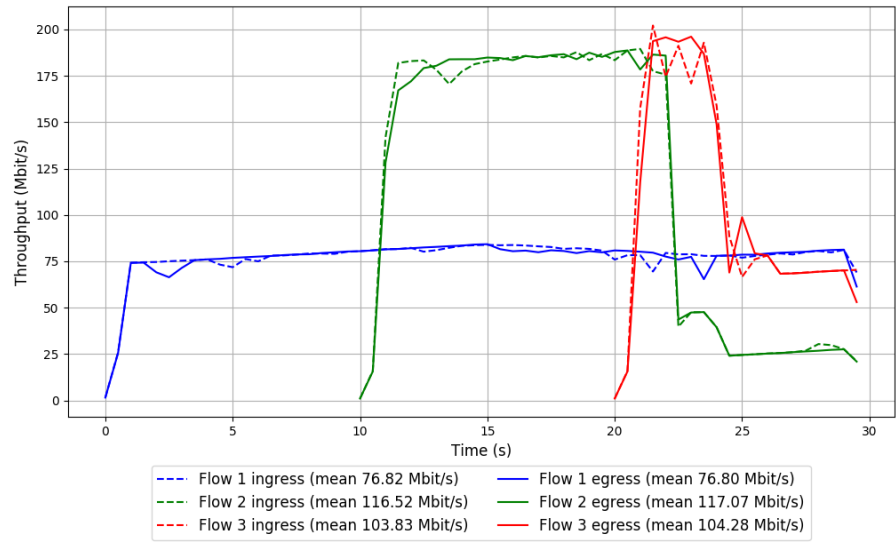
-- Flow 3:

Average throughput: 104.28 Mbit/s

95th percentile per-packet one-way delay: 71.155 ms

Loss rate: 0.86%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-27 00:53:58

End at: 2018-01-27 00:54:28

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.39 Mbit/s

95th percentile per-packet one-way delay: 65.260 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 65.316 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 75.30 Mbit/s

95th percentile per-packet one-way delay: 65.246 ms

Loss rate: 0.66%

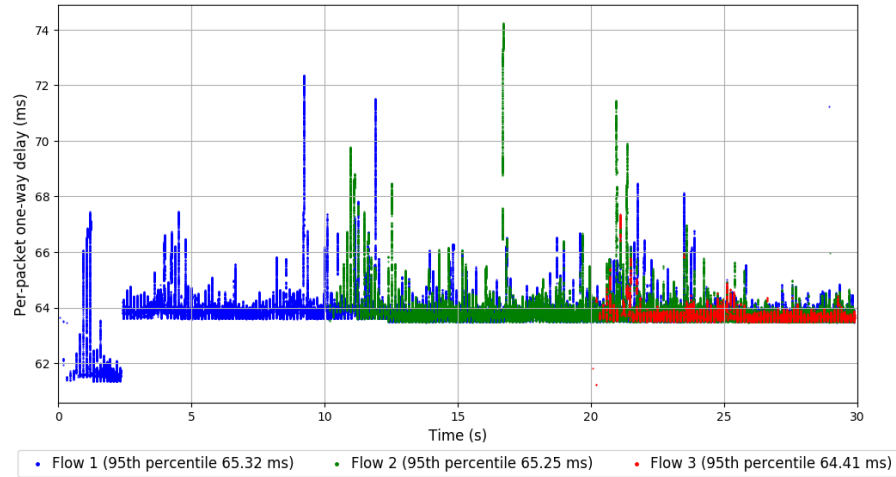
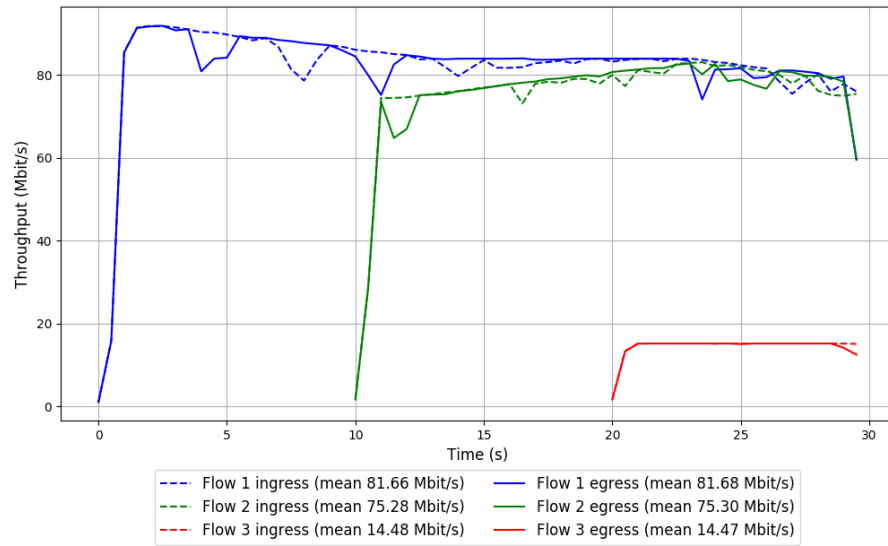
-- Flow 3:

Average throughput: 14.47 Mbit/s

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

Loss rate: 1.32%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-27 01:08:45

End at: 2018-01-27 01:09:15

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 14.10 Mbit/s

95th percentile per-packet one-way delay: 63.996 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 1.19%

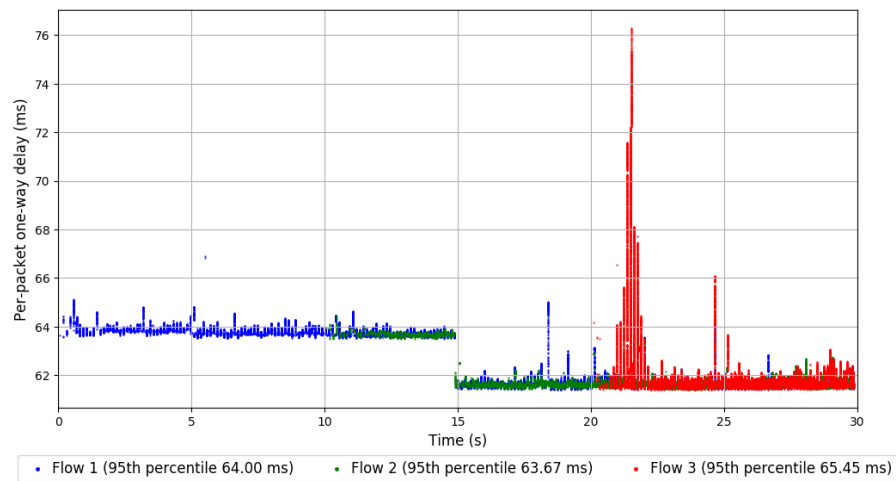
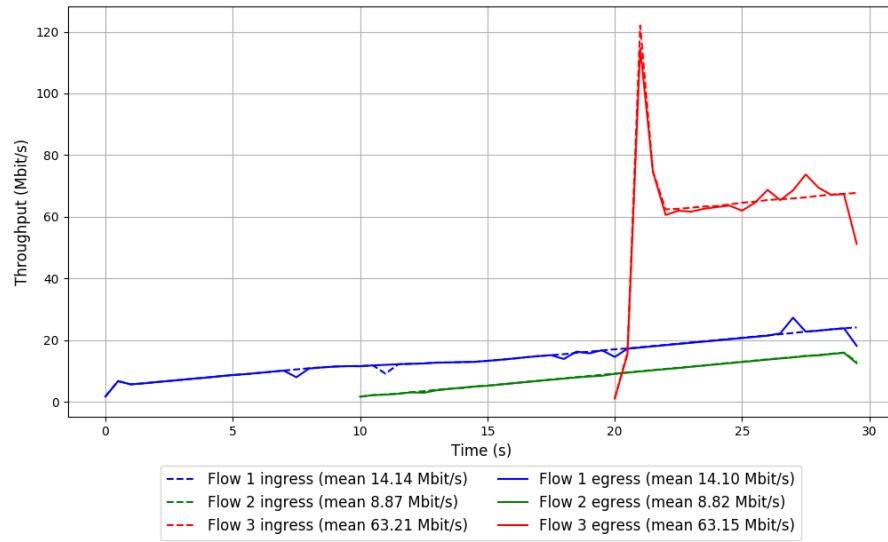
-- Flow 3:

Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 65.452 ms

Loss rate: 1.35%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-27 01:23:09

End at: 2018-01-27 01:23:39

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.64 Mbit/s

95th percentile per-packet one-way delay: 70.017 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 112.74 Mbit/s

95th percentile per-packet one-way delay: 70.225 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 109.16 Mbit/s

95th percentile per-packet one-way delay: 70.232 ms

Loss rate: 0.40%

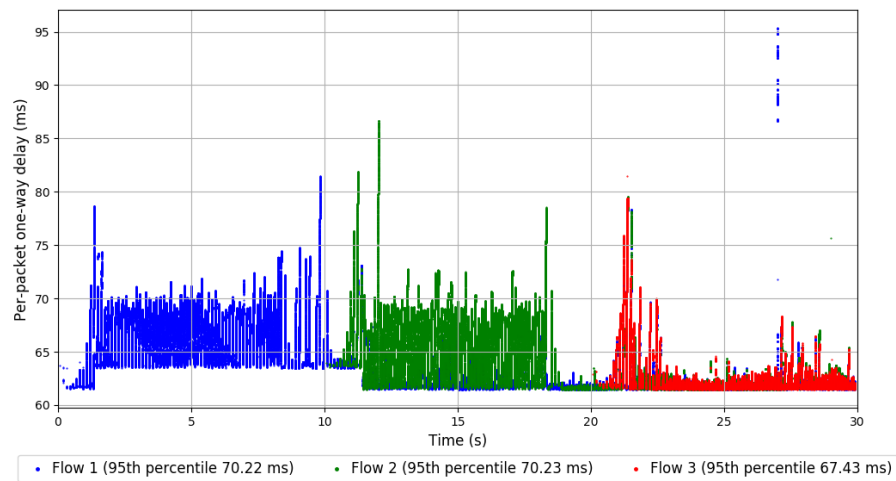
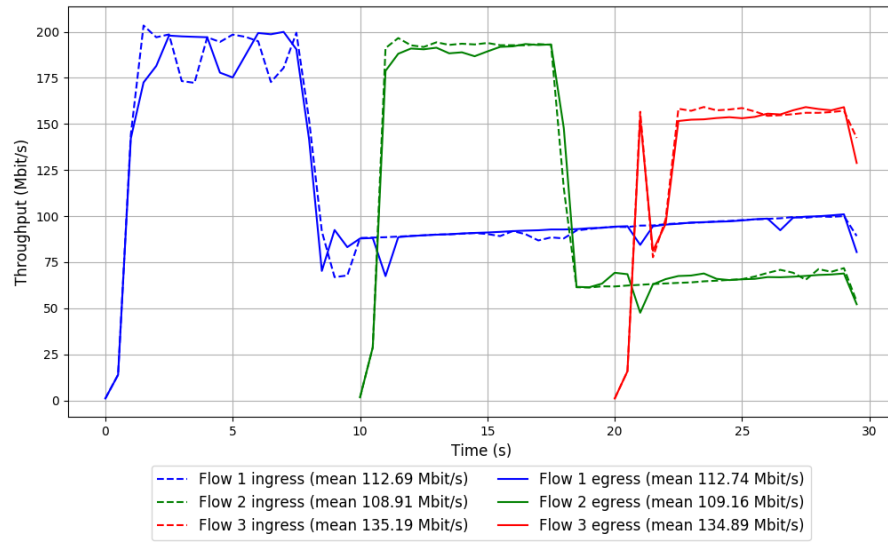
-- Flow 3:

Average throughput: 134.89 Mbit/s

95th percentile per-packet one-way delay: 67.434 ms

Loss rate: 1.46%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-27 01:37:50

End at: 2018-01-27 01:38:20

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.55 Mbit/s

95th percentile per-packet one-way delay: 72.206 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 70.791 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 169.06 Mbit/s

95th percentile per-packet one-way delay: 72.447 ms

Loss rate: 0.23%

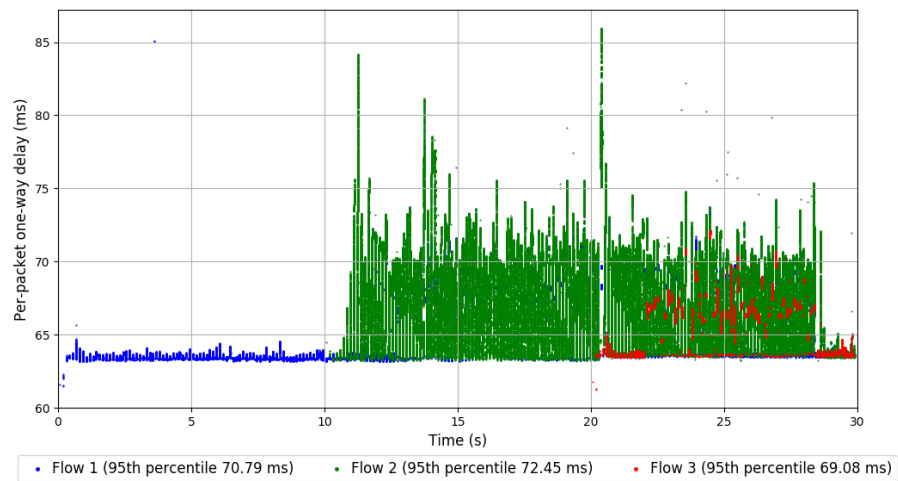
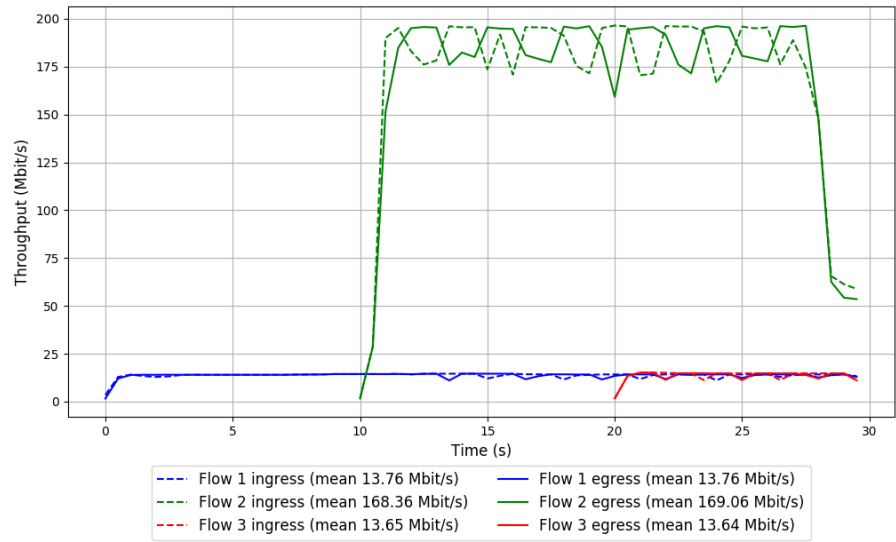
-- Flow 3:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 69.079 ms

Loss rate: 1.37%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-27 01:52:35

End at: 2018-01-27 01:53:05

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.19 Mbit/s

95th percentile per-packet one-way delay: 70.777 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 68.056 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 17.96 Mbit/s

95th percentile per-packet one-way delay: 69.360 ms

Loss rate: 0.78%

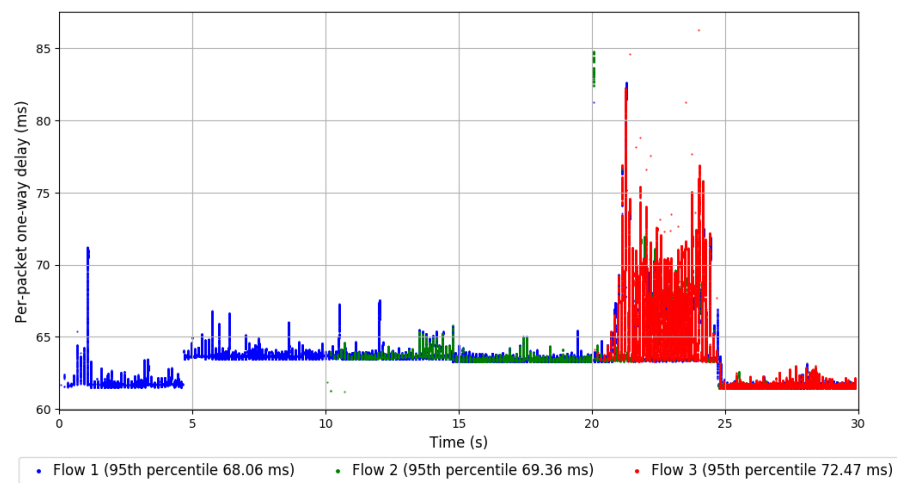
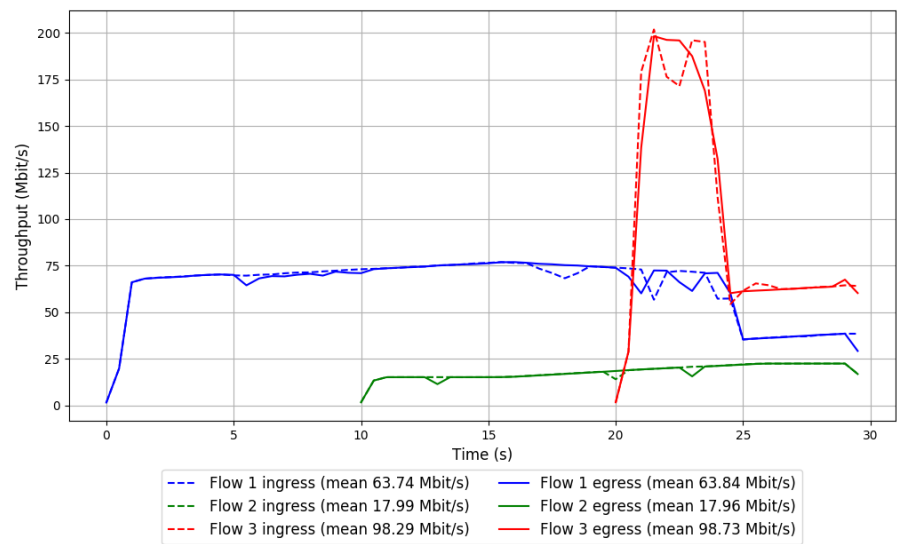
-- Flow 3:

Average throughput: 98.73 Mbit/s

95th percentile per-packet one-way delay: 72.473 ms

Loss rate: 0.83%

Run 10: Report of TCP Vegas — Data Link

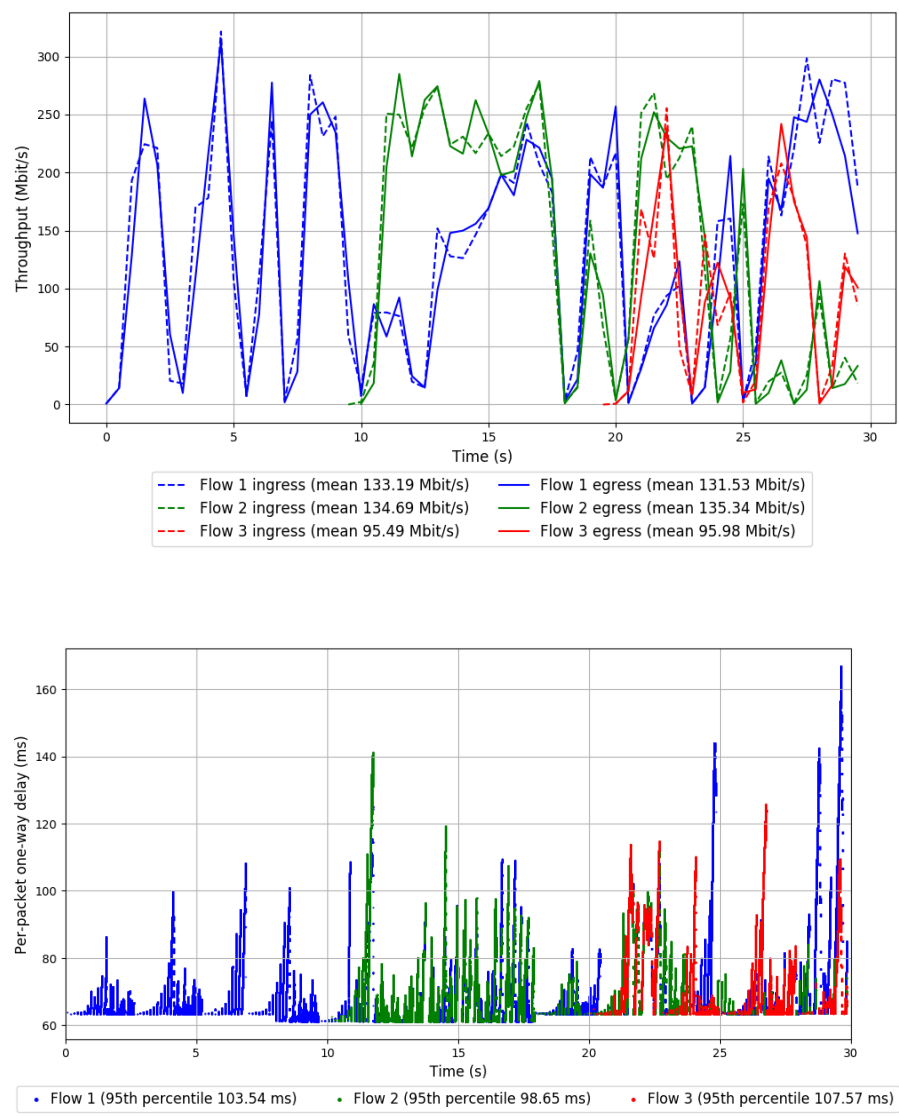


```
Run 1: Statistics of Verus

Start at: 2018-01-26 23:34:32
End at: 2018-01-26 23:35:02

# Below is generated by plot.py at 2018-01-27 05:19:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.15 Mbit/s
95th percentile per-packet one-way delay: 103.405 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 131.53 Mbit/s
95th percentile per-packet one-way delay: 103.539 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 135.34 Mbit/s
95th percentile per-packet one-way delay: 98.648 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 107.568 ms
Loss rate: 0.74%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 23:49:16

End at: 2018-01-26 23:49:46

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.95 Mbit/s

95th percentile per-packet one-way delay: 98.953 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 154.35 Mbit/s

95th percentile per-packet one-way delay: 109.983 ms

Loss rate: 3.13%

-- Flow 2:

Average throughput: 121.73 Mbit/s

95th percentile per-packet one-way delay: 94.045 ms

Loss rate: 0.73%

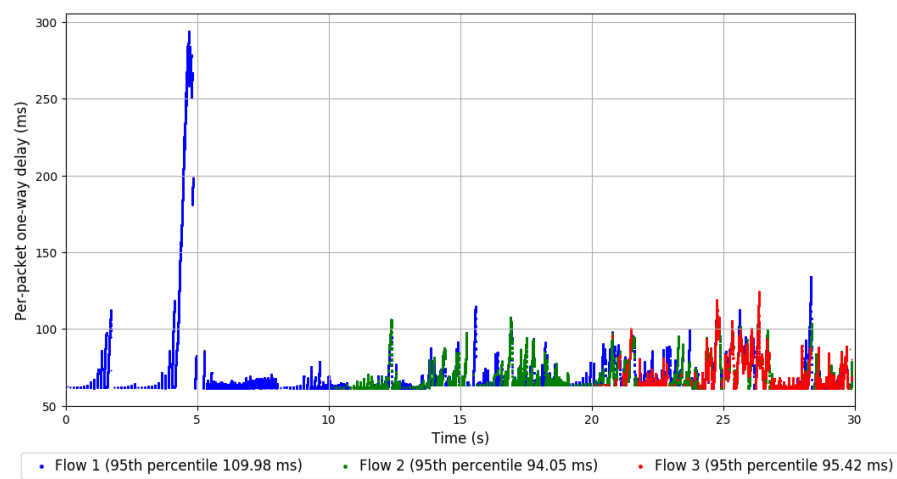
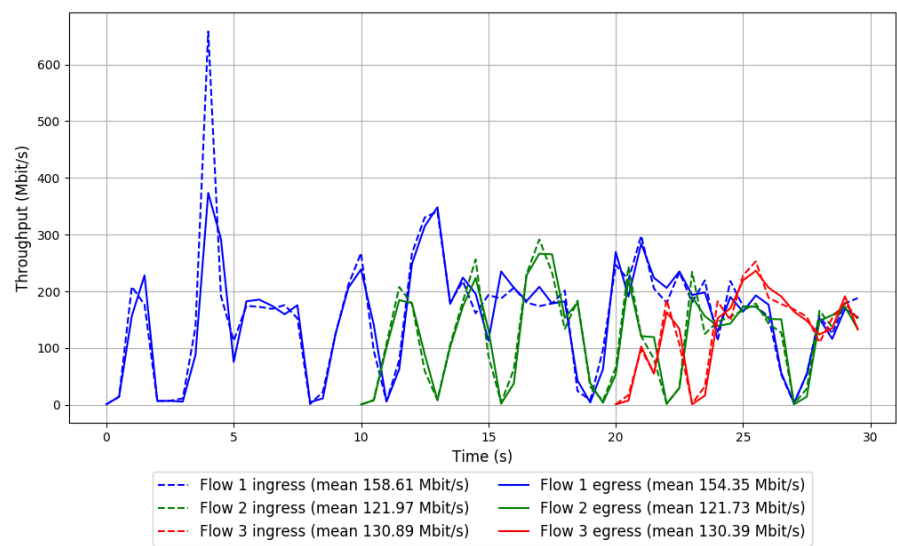
-- Flow 3:

Average throughput: 130.39 Mbit/s

95th percentile per-packet one-way delay: 95.415 ms

Loss rate: 1.65%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-27 00:03:45

End at: 2018-01-27 00:04:15

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.16 Mbit/s

95th percentile per-packet one-way delay: 146.605 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 214.62 Mbit/s

95th percentile per-packet one-way delay: 149.119 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 111.80 Mbit/s

95th percentile per-packet one-way delay: 136.880 ms

Loss rate: 1.26%

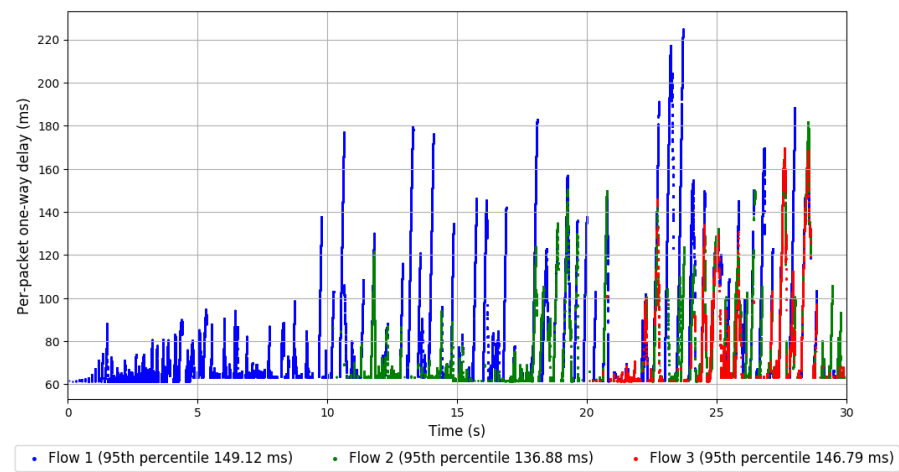
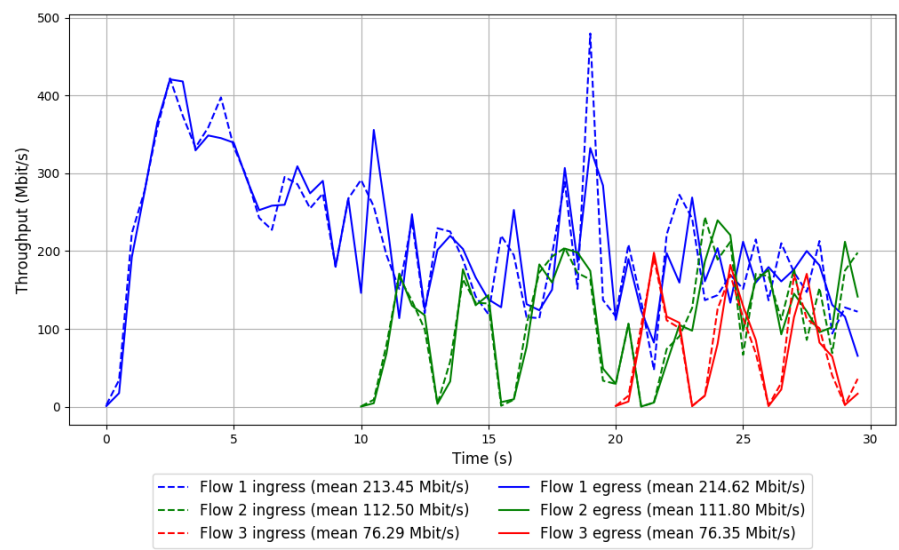
-- Flow 3:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 146.789 ms

Loss rate: 1.27%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-27 00:18:27

End at: 2018-01-27 00:18:57

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.88 Mbit/s

95th percentile per-packet one-way delay: 238.914 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 124.75 Mbit/s

95th percentile per-packet one-way delay: 173.792 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 187.13 Mbit/s

95th percentile per-packet one-way delay: 263.244 ms

Loss rate: 4.72%

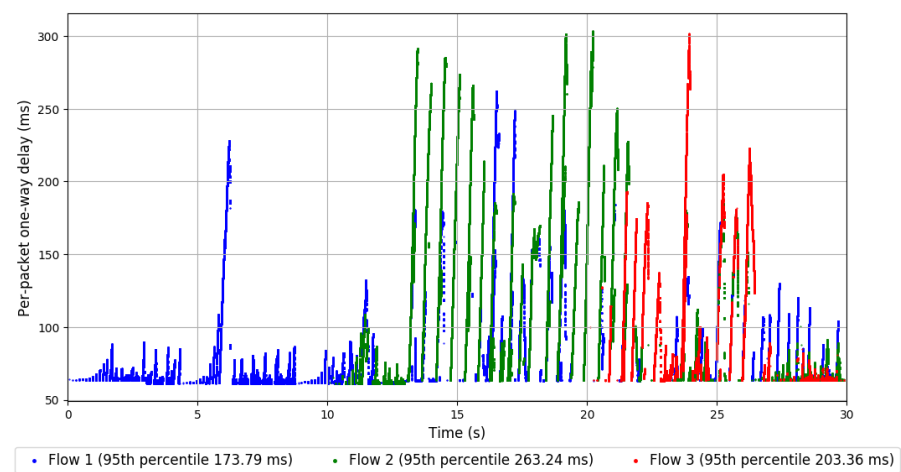
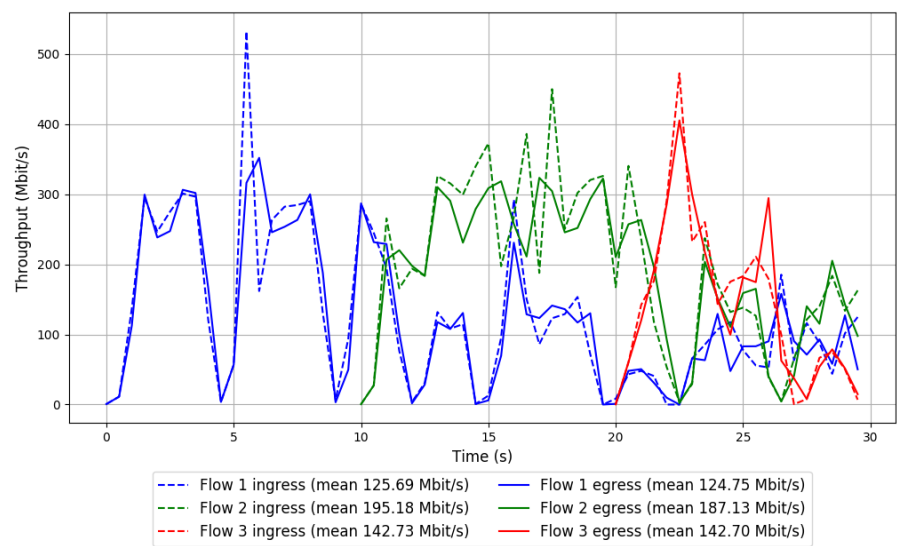
-- Flow 3:

Average throughput: 142.70 Mbit/s

95th percentile per-packet one-way delay: 203.362 ms

Loss rate: 1.67%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-27 00:33:14

End at: 2018-01-27 00:33:44

Below is generated by plot.py at 2018-01-27 05:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.95 Mbit/s

95th percentile per-packet one-way delay: 174.512 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 213.32 Mbit/s

95th percentile per-packet one-way delay: 183.079 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 141.034 ms

Loss rate: 0.80%

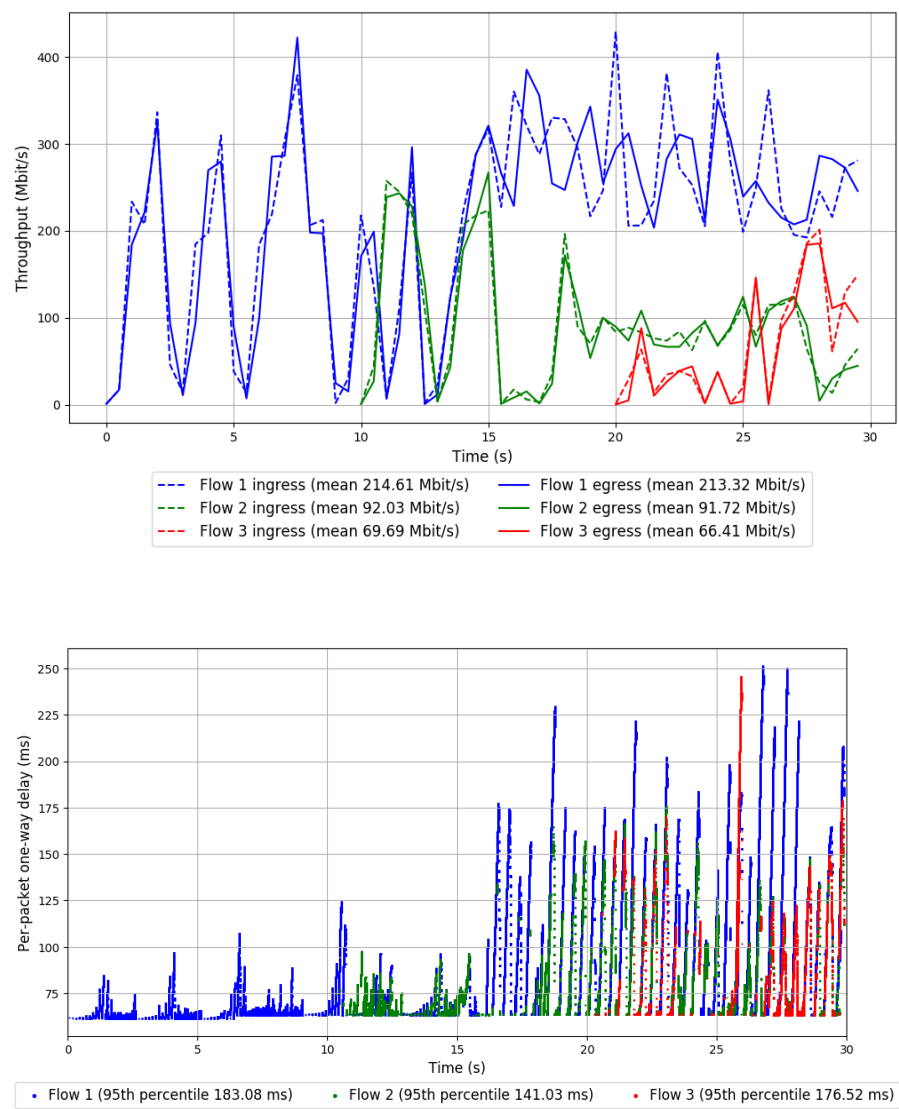
-- Flow 3:

Average throughput: 66.41 Mbit/s

95th percentile per-packet one-way delay: 176.520 ms

Loss rate: 5.85%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-27 00:48:03

End at: 2018-01-27 00:48:33

Below is generated by plot.py at 2018-01-27 05:20:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.91 Mbit/s

95th percentile per-packet one-way delay: 121.146 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 146.57 Mbit/s

95th percentile per-packet one-way delay: 104.641 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 160.36 Mbit/s

95th percentile per-packet one-way delay: 153.591 ms

Loss rate: 0.22%

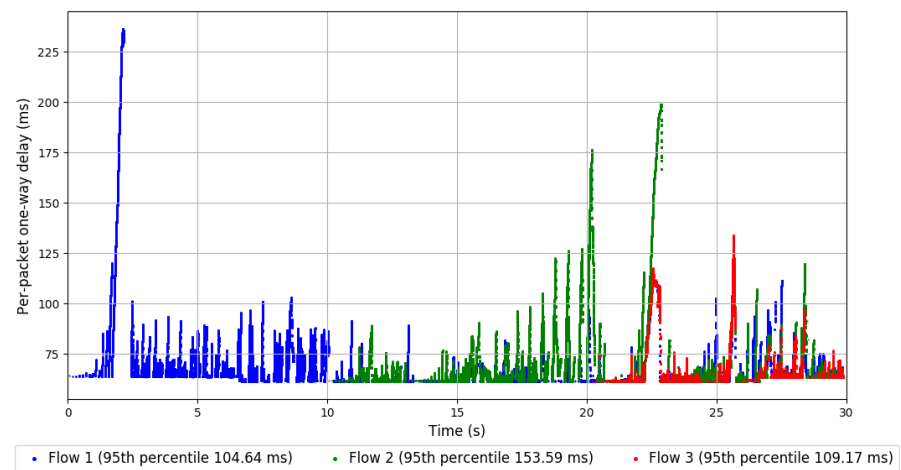
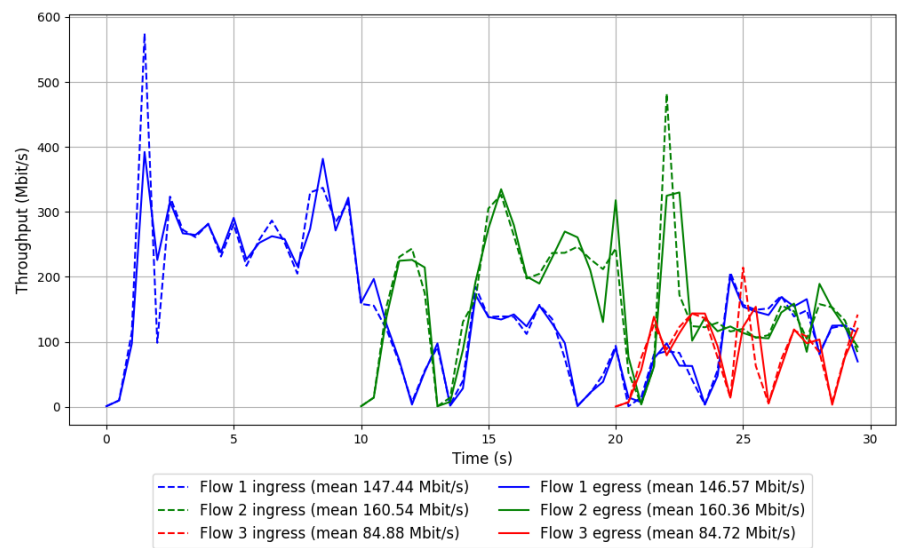
-- Flow 3:

Average throughput: 84.72 Mbit/s

95th percentile per-packet one-way delay: 109.174 ms

Loss rate: 1.67%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-27 01:02:51

End at: 2018-01-27 01:03:21

Below is generated by plot.py at 2018-01-27 05:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.94 Mbit/s

95th percentile per-packet one-way delay: 104.433 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 230.13 Mbit/s

95th percentile per-packet one-way delay: 101.598 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 135.01 Mbit/s

95th percentile per-packet one-way delay: 111.498 ms

Loss rate: 0.00%

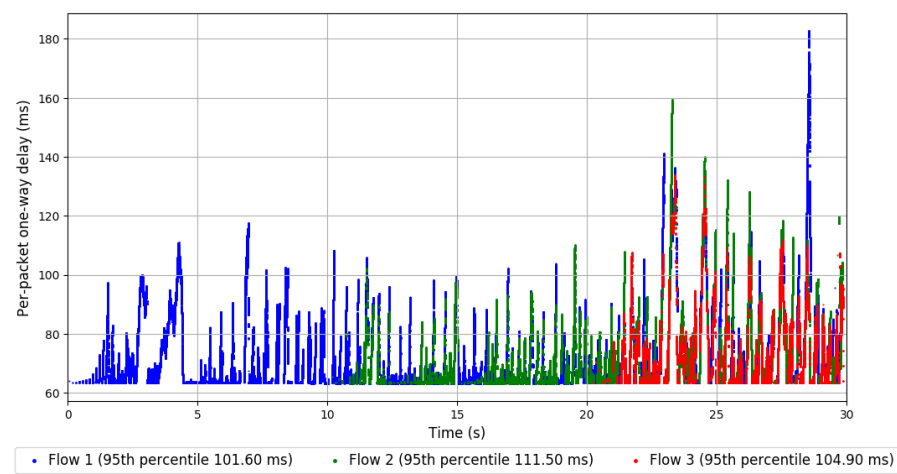
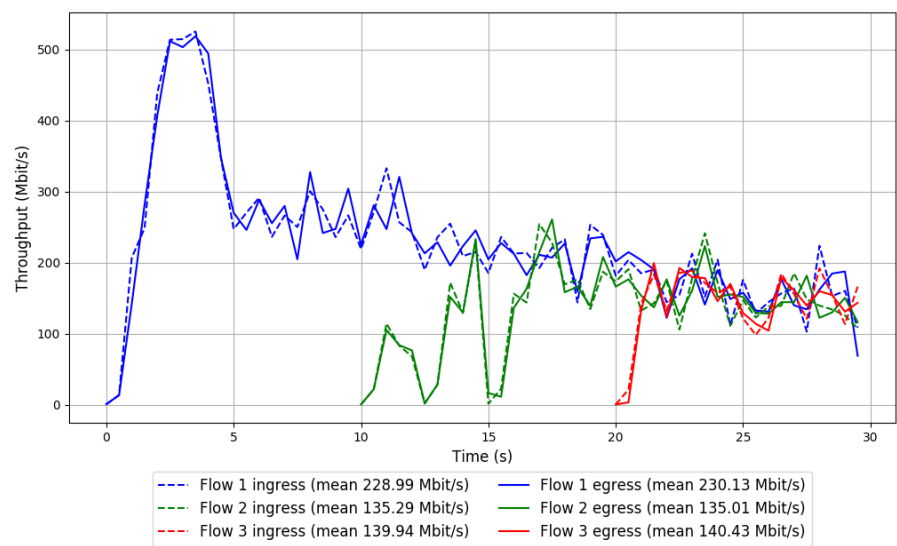
-- Flow 3:

Average throughput: 140.43 Mbit/s

95th percentile per-packet one-way delay: 104.899 ms

Loss rate: 1.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

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

End at: 2018-01-27 01:17:46

Below is generated by plot.py at 2018-01-27 05:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.28 Mbit/s

95th percentile per-packet one-way delay: 174.392 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 201.57 Mbit/s

95th percentile per-packet one-way delay: 138.548 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 156.087 ms

Loss rate: 0.31%

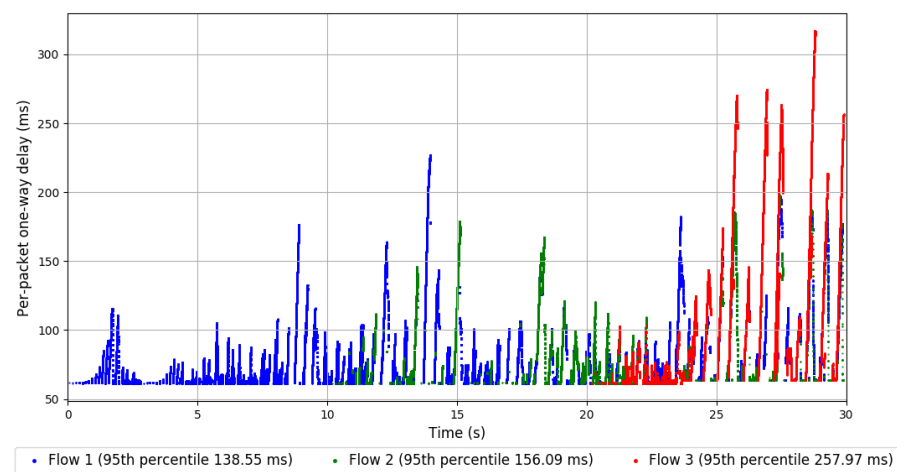
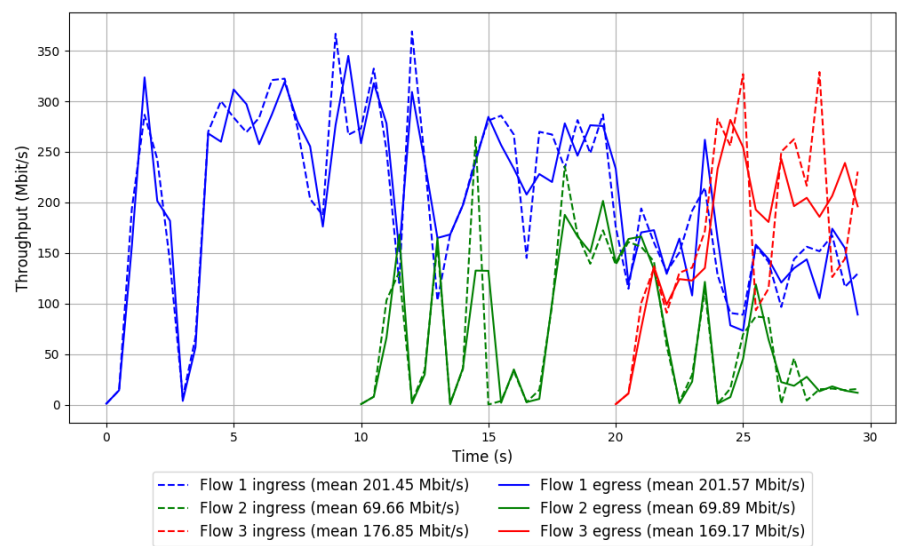
-- Flow 3:

Average throughput: 169.17 Mbit/s

95th percentile per-packet one-way delay: 257.970 ms

Loss rate: 2.62%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-27 01:31:54

End at: 2018-01-27 01:32:24

Below is generated by plot.py at 2018-01-27 05:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.85 Mbit/s

95th percentile per-packet one-way delay: 207.993 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 179.76 Mbit/s

95th percentile per-packet one-way delay: 126.201 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 156.12 Mbit/s

95th percentile per-packet one-way delay: 212.813 ms

Loss rate: 2.72%

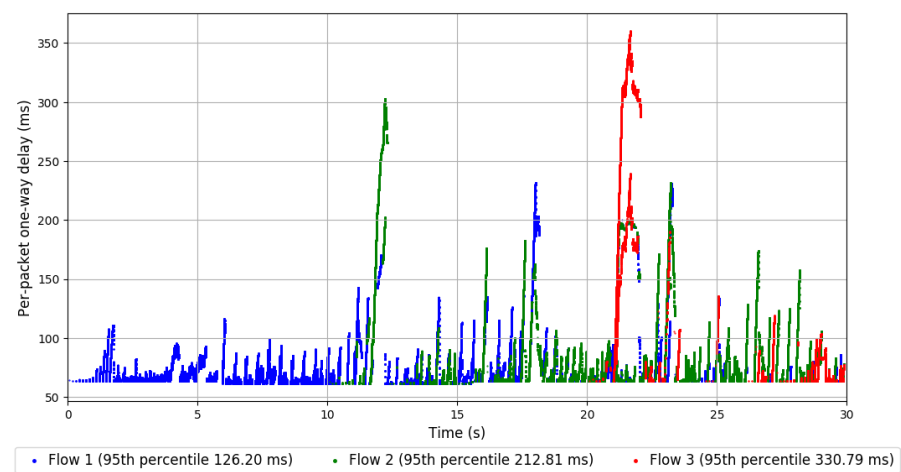
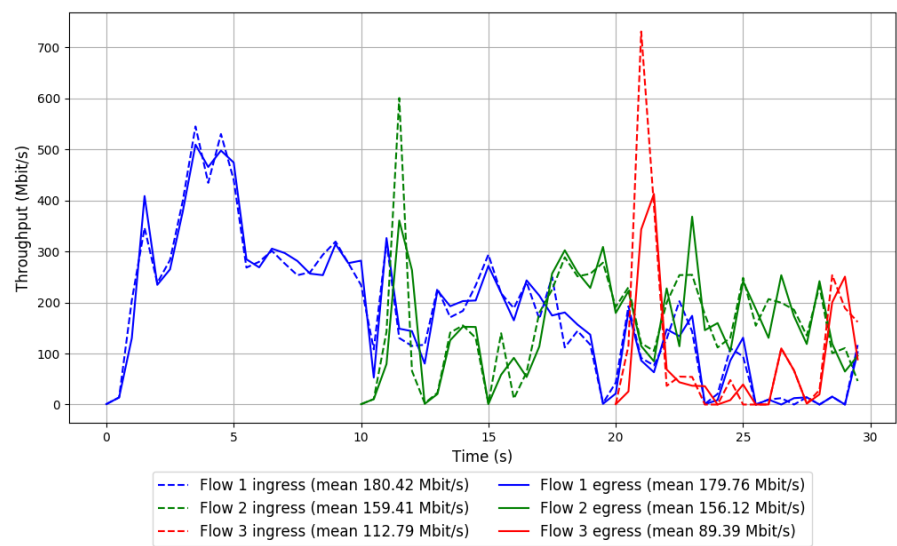
-- Flow 3:

Average throughput: 89.39 Mbit/s

95th percentile per-packet one-way delay: 330.788 ms

Loss rate: 21.75%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-27 01:46:45

End at: 2018-01-27 01:47:15

Below is generated by plot.py at 2018-01-27 05:24:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.05 Mbit/s

95th percentile per-packet one-way delay: 149.330 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 188.37 Mbit/s

95th percentile per-packet one-way delay: 138.230 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 159.42 Mbit/s

95th percentile per-packet one-way delay: 176.139 ms

Loss rate: 1.19%

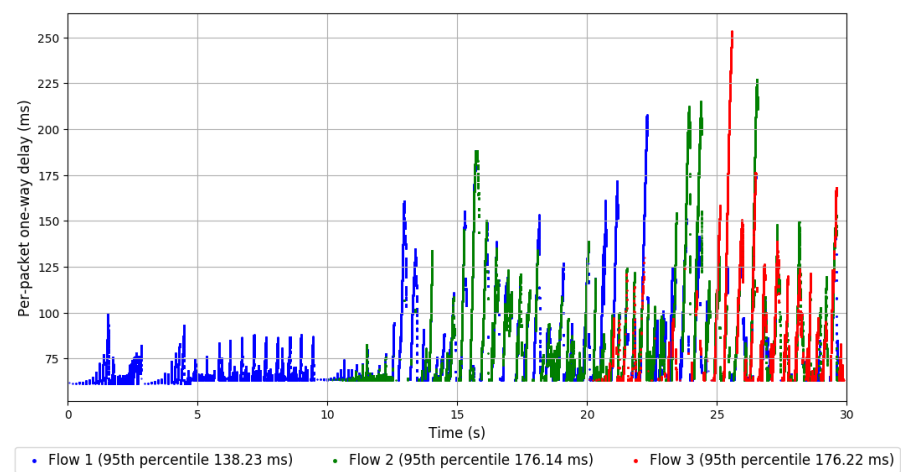
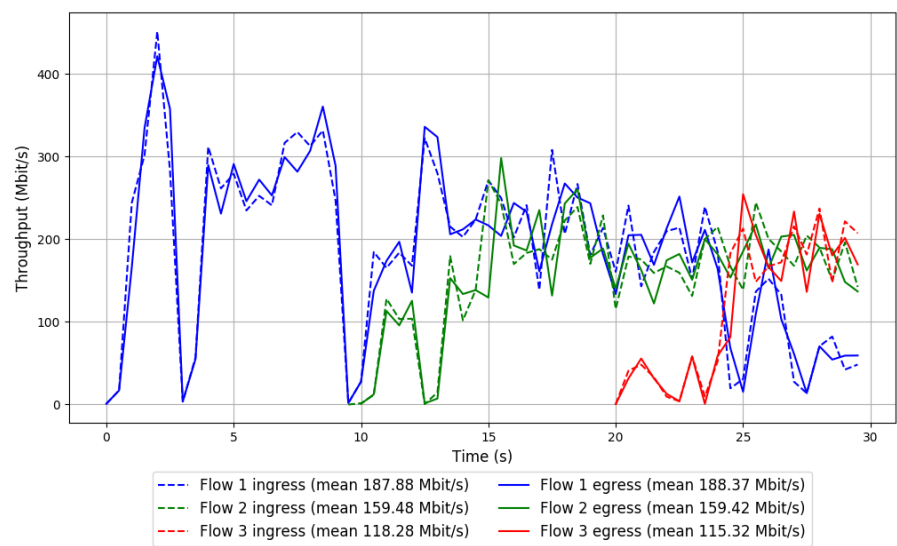
-- Flow 3:

Average throughput: 115.32 Mbit/s

95th percentile per-packet one-way delay: 176.220 ms

Loss rate: 3.75%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 23:41:05

End at: 2018-01-26 23:41:35

Below is generated by plot.py at 2018-01-27 05:24:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.19 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 63.516 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 0.75%

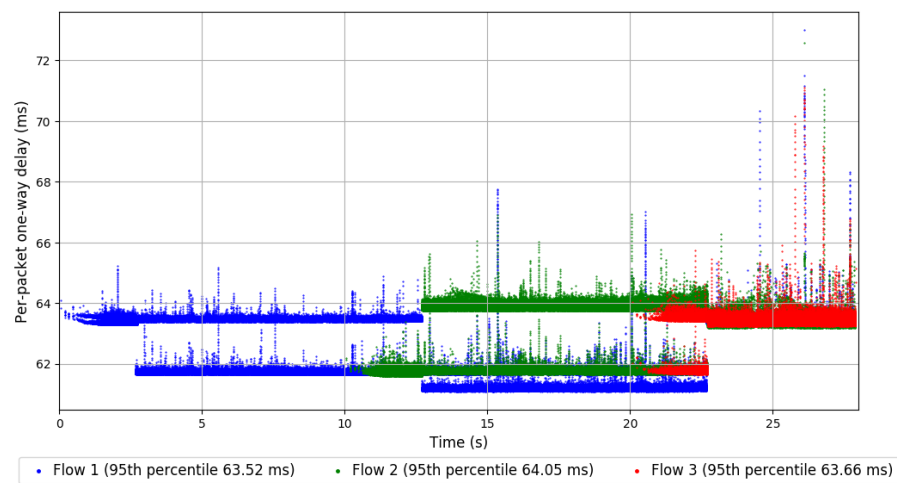
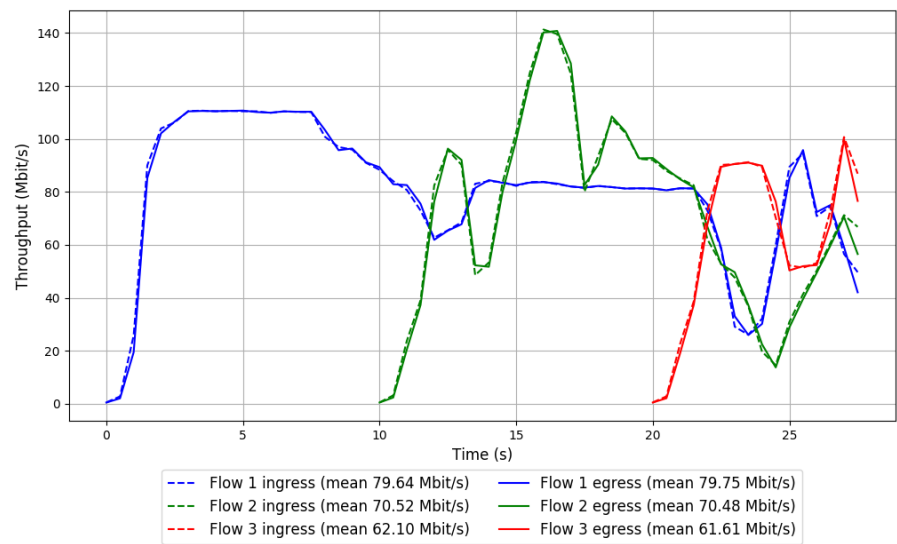
-- Flow 3:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 2.36%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 23:55:56

End at: 2018-01-26 23:56:26

Below is generated by plot.py at 2018-01-27 05:24:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.82 Mbit/s

95th percentile per-packet one-way delay: 63.684 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 51.77 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 63.667 ms

Loss rate: 0.13%

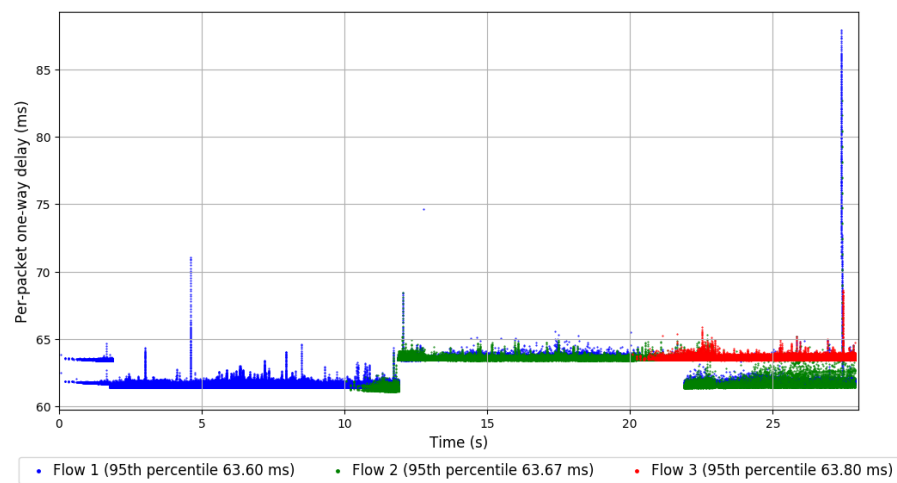
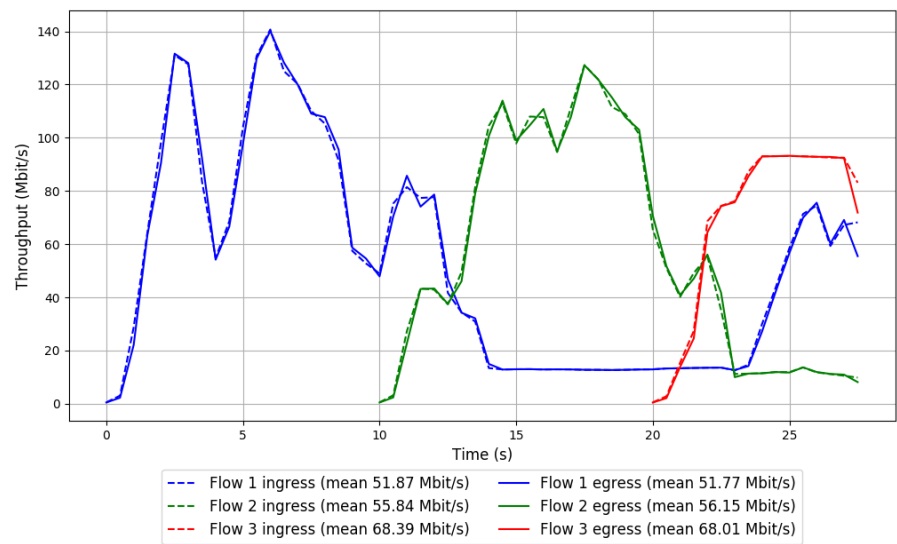
-- Flow 3:

Average throughput: 68.01 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 2.12%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-27 00:10:19

End at: 2018-01-27 00:10:49

Below is generated by plot.py at 2018-01-27 05:24:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.79 Mbit/s

95th percentile per-packet one-way delay: 63.644 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 81.13 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.60%

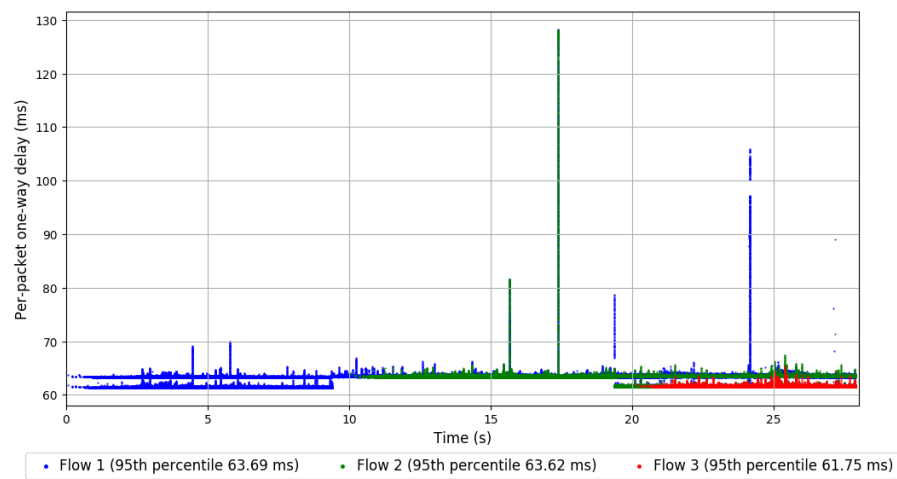
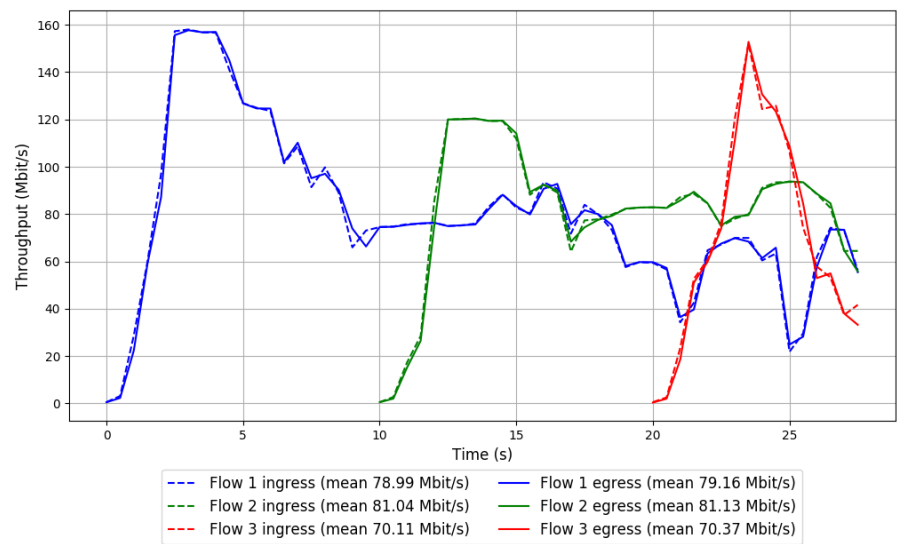
-- Flow 3:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 61.746 ms

Loss rate: 1.20%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-01-27 00:25:33

Below is generated by plot.py at 2018-01-27 05:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.02 Mbit/s

95th percentile per-packet one-way delay: 64.051 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 79.38 Mbit/s

95th percentile per-packet one-way delay: 64.058 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 73.78 Mbit/s

95th percentile per-packet one-way delay: 64.082 ms

Loss rate: 0.74%

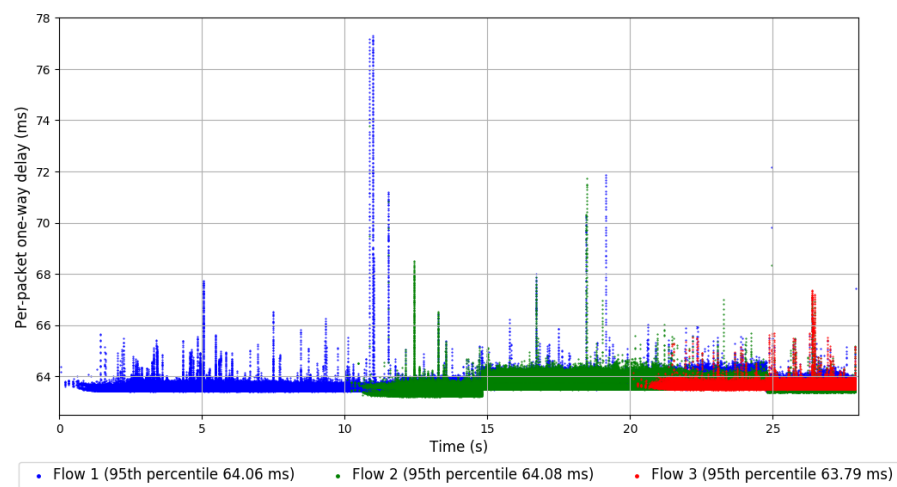
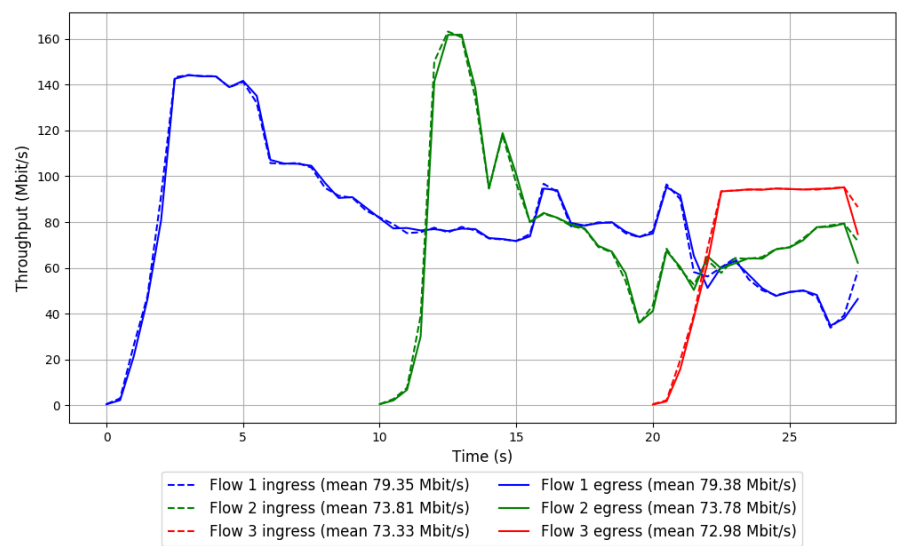
-- Flow 3:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 63.791 ms

Loss rate: 2.05%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-27 00:39:58

End at: 2018-01-27 00:40:28

Below is generated by plot.py at 2018-01-27 05:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.38 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 76.14 Mbit/s

95th percentile per-packet one-way delay: 63.630 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.68%

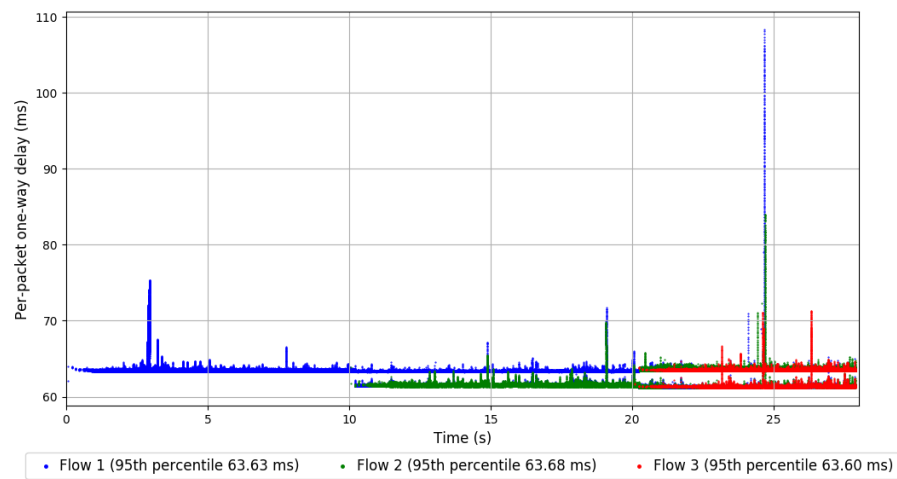
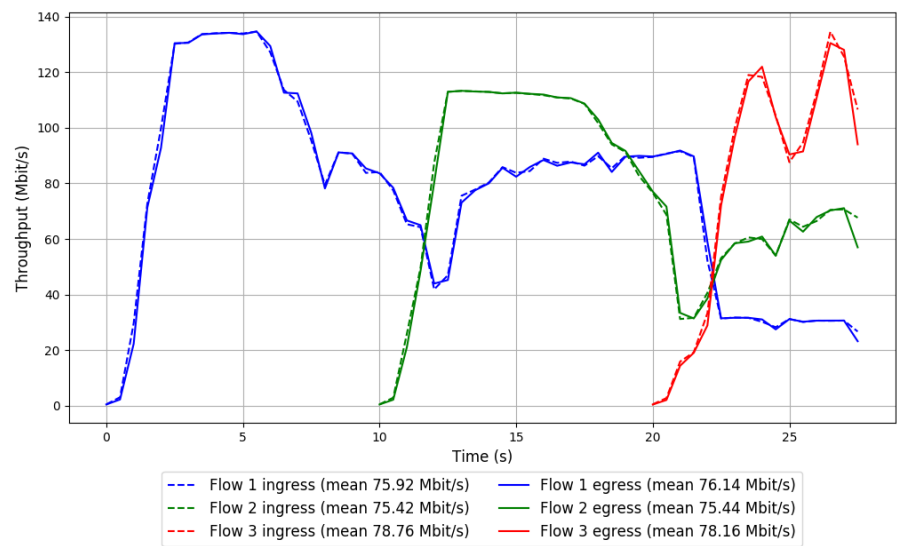
-- Flow 3:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 63.596 ms

Loss rate: 2.33%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-27 00:54:47

End at: 2018-01-27 00:55:17

Below is generated by plot.py at 2018-01-27 05:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.53 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.16%

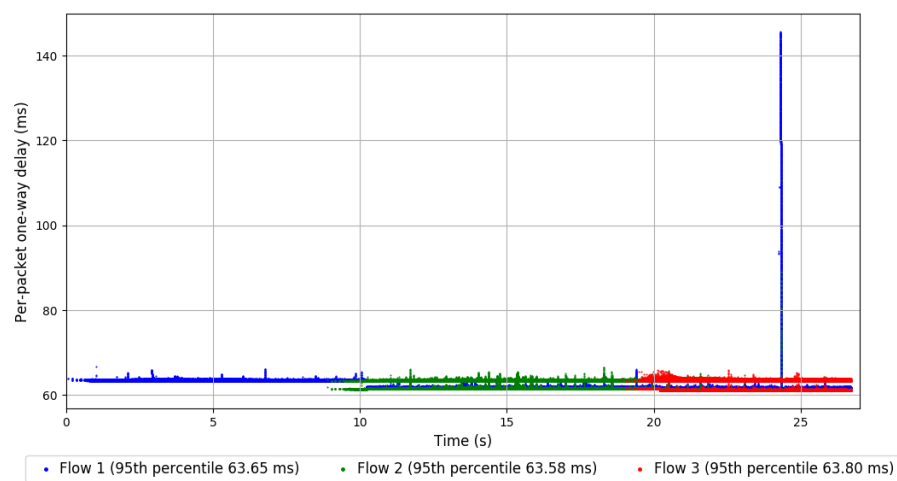
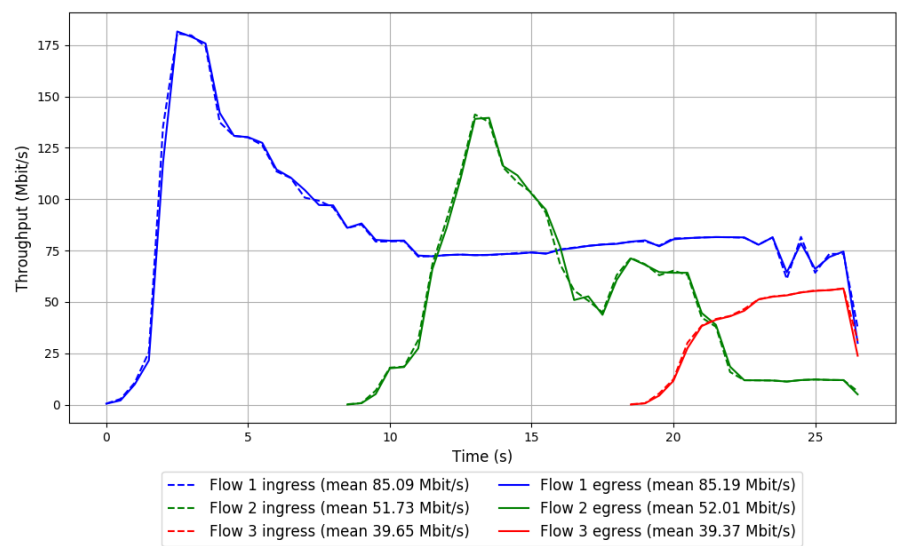
-- Flow 3:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 2.27%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-27 01:09:28

End at: 2018-01-27 01:09:58

Below is generated by plot.py at 2018-01-27 05:27:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.26 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 69.03 Mbit/s

95th percentile per-packet one-way delay: 63.688 ms

Loss rate: 0.66%

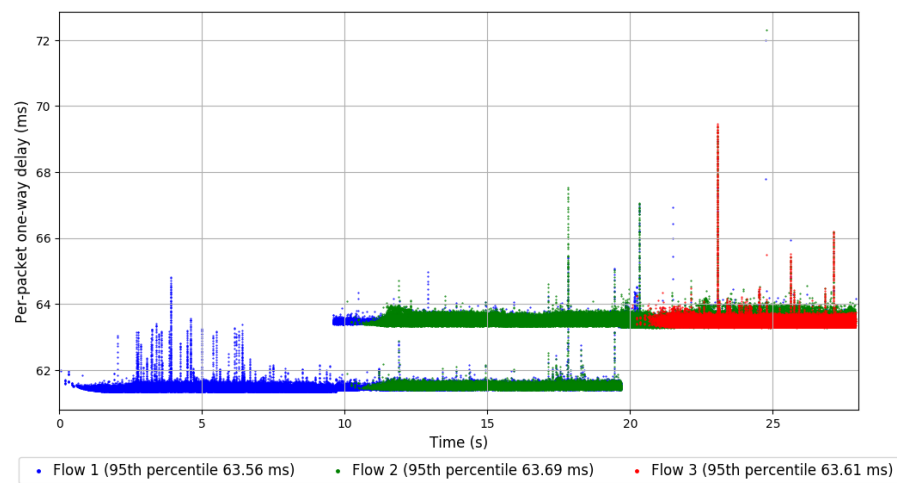
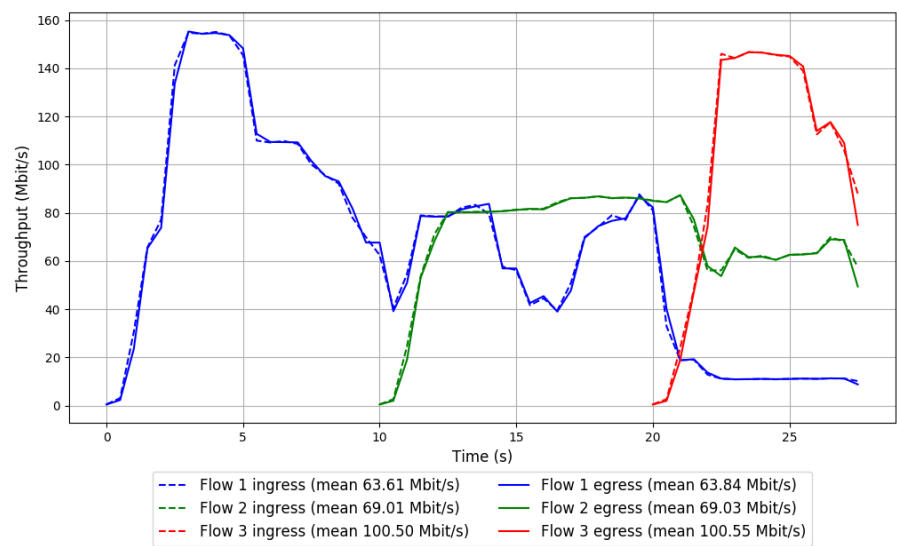
-- Flow 3:

Average throughput: 100.55 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 1.56%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

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

End at: 2018-01-27 01:24:33

Below is generated by plot.py at 2018-01-27 05:27:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.00 Mbit/s

95th percentile per-packet one-way delay: 63.681 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.68%

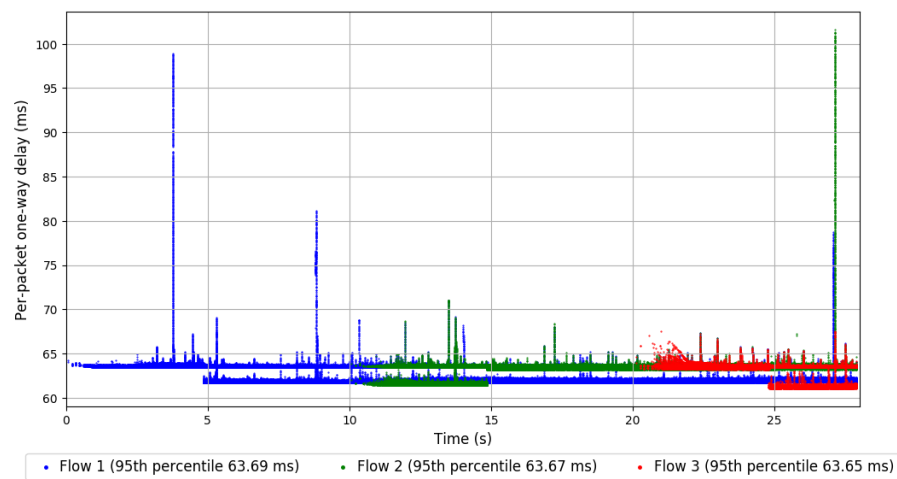
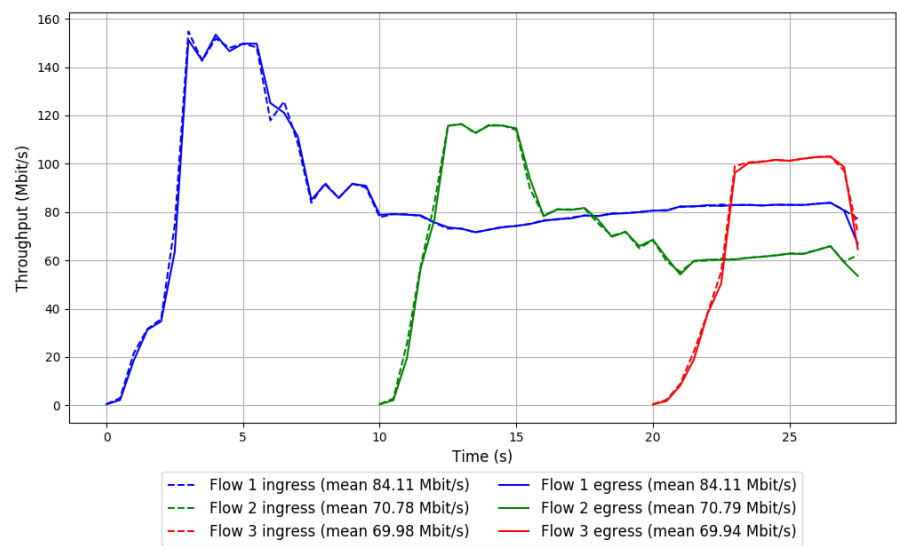
-- Flow 3:

Average throughput: 69.94 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 1.66%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-27 01:38:39

End at: 2018-01-27 01:39:09

Below is generated by plot.py at 2018-01-27 05:27:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.96 Mbit/s

95th percentile per-packet one-way delay: 63.771 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 0.82%

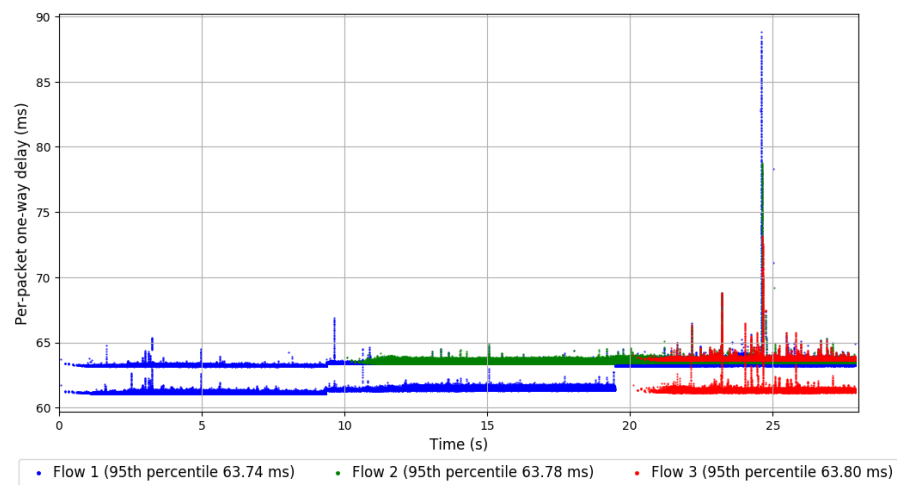
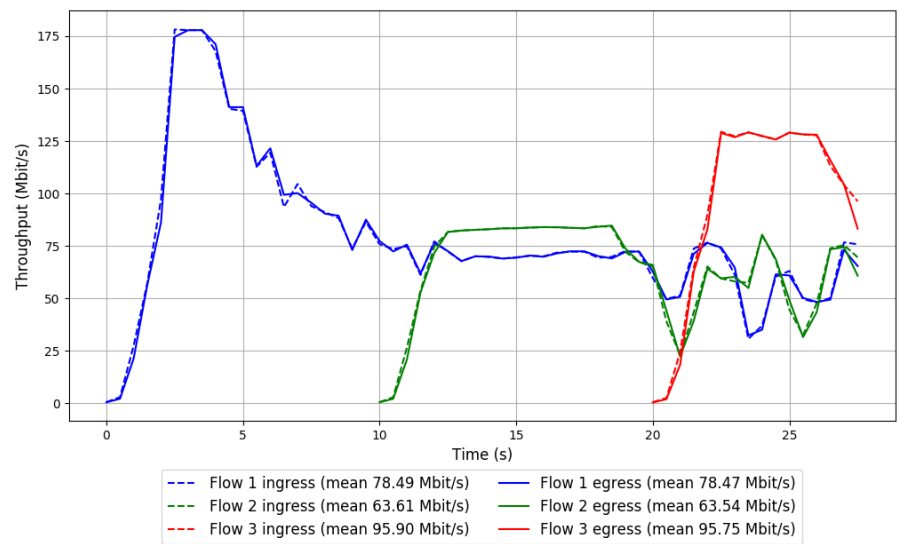
-- Flow 3:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 1.73%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-27 01:53:22

End at: 2018-01-27 01:53:52

Below is generated by plot.py at 2018-01-27 05:28:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.52 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 65.79 Mbit/s

95th percentile per-packet one-way delay: 63.580 ms

Loss rate: 0.48%

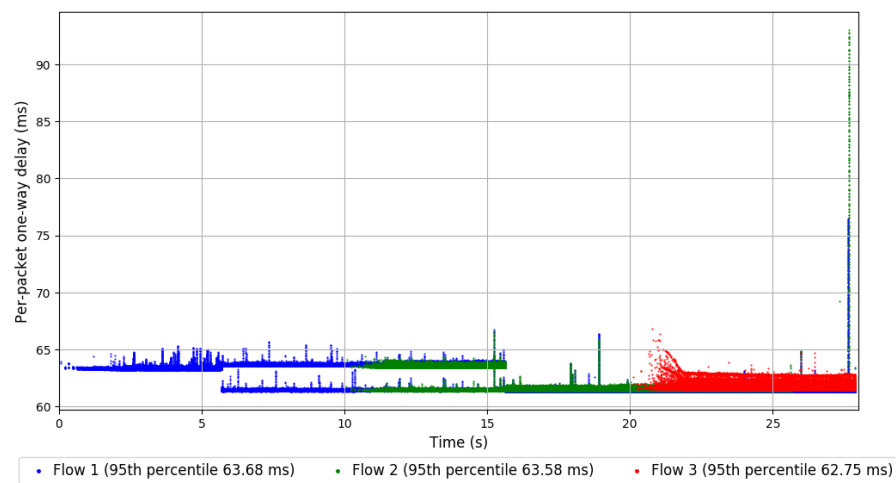
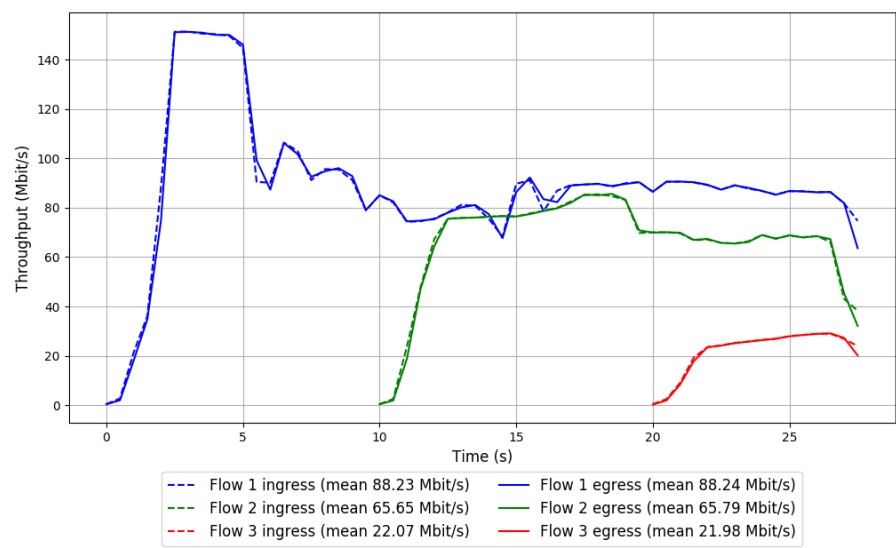
-- Flow 3:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 62.750 ms

Loss rate: 1.95%

Run 10: Report of Copa — Data Link

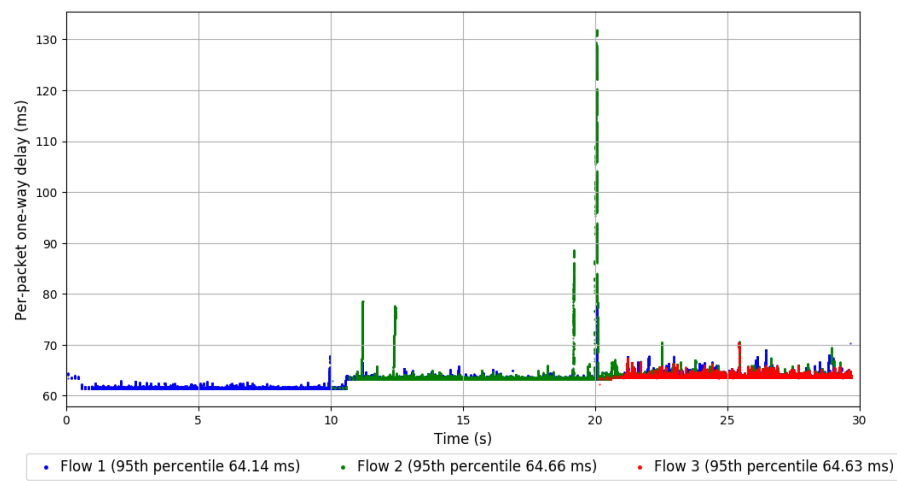
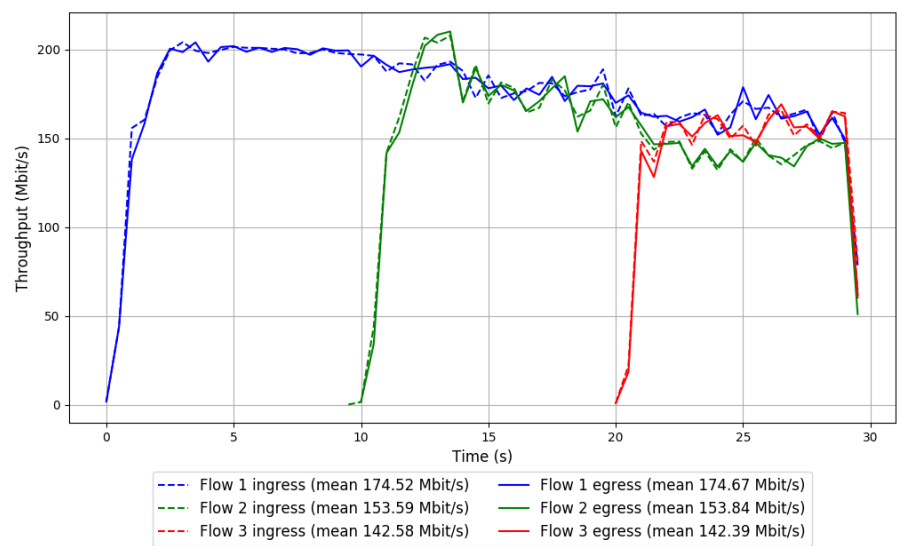


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 23:38:09
End at: 2018-01-26 23:38:39

# Below is generated by plot.py at 2018-01-27 05:29:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.28 Mbit/s
95th percentile per-packet one-way delay: 64.396 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 174.67 Mbit/s
95th percentile per-packet one-way delay: 64.138 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 153.84 Mbit/s
95th percentile per-packet one-way delay: 64.659 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 142.39 Mbit/s
95th percentile per-packet one-way delay: 64.632 ms
Loss rate: 1.46%
```


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

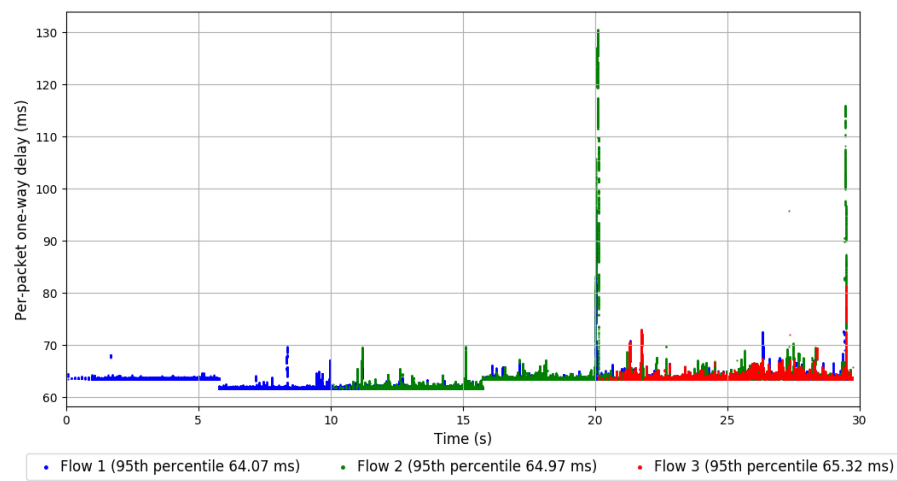
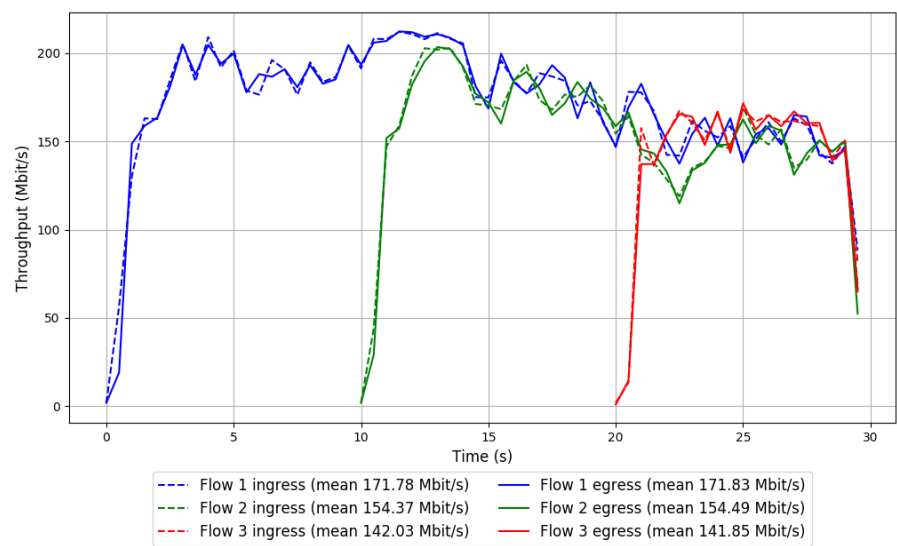


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 23:52:54
End at: 2018-01-26 23:53:24

# Below is generated by plot.py at 2018-01-27 05:30:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.93 Mbit/s
95th percentile per-packet one-way delay: 64.508 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 171.83 Mbit/s
95th percentile per-packet one-way delay: 64.069 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 154.49 Mbit/s
95th percentile per-packet one-way delay: 64.971 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 141.85 Mbit/s
95th percentile per-packet one-way delay: 65.323 ms
Loss rate: 1.42%
```

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



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-27 00:07:24

End at: 2018-01-27 00:07:54

Below is generated by plot.py at 2018-01-27 05:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.41 Mbit/s

95th percentile per-packet one-way delay: 64.246 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 174.36 Mbit/s

95th percentile per-packet one-way delay: 63.898 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 159.59 Mbit/s

95th percentile per-packet one-way delay: 64.566 ms

Loss rate: 0.59%

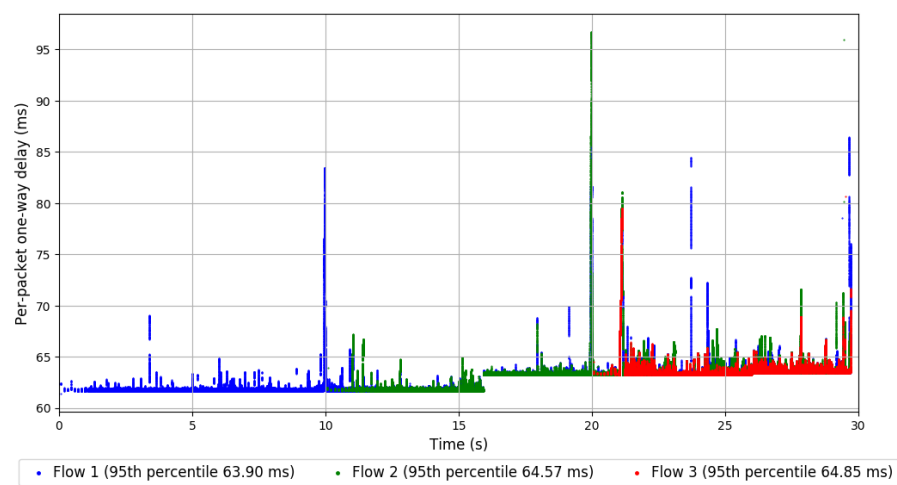
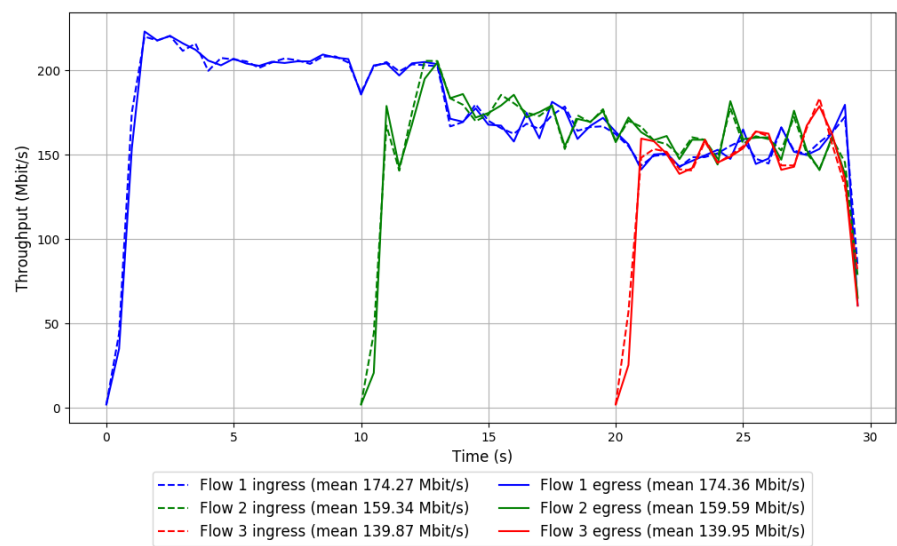
-- Flow 3:

Average throughput: 139.95 Mbit/s

95th percentile per-packet one-way delay: 64.850 ms

Loss rate: 1.25%

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



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-27 00:22:05

End at: 2018-01-27 00:22:35

Below is generated by plot.py at 2018-01-27 05:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.32 Mbit/s

95th percentile per-packet one-way delay: 63.791 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 175.24 Mbit/s

95th percentile per-packet one-way delay: 63.722 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 165.16 Mbit/s

95th percentile per-packet one-way delay: 64.123 ms

Loss rate: 0.63%

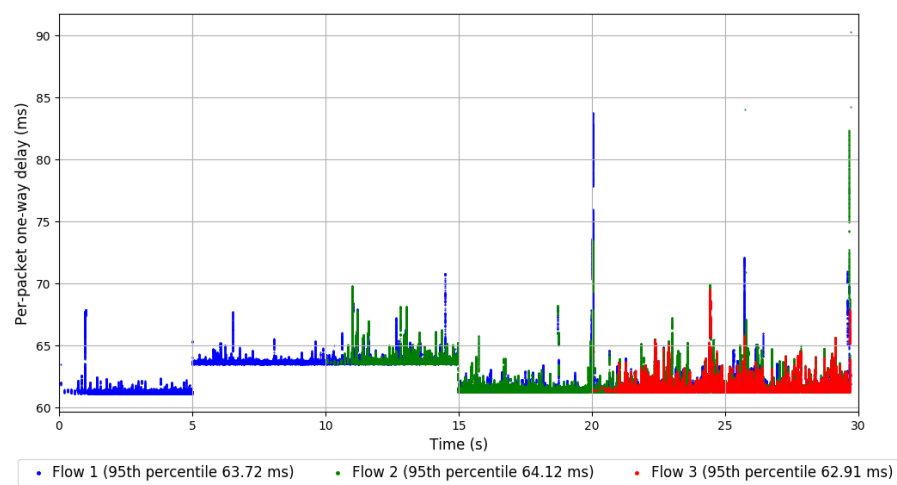
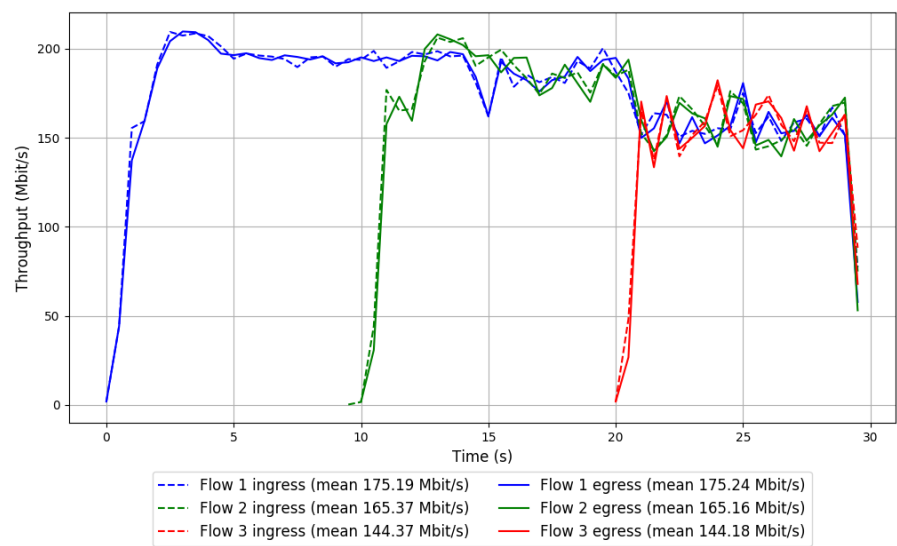
-- Flow 3:

Average throughput: 144.18 Mbit/s

95th percentile per-packet one-way delay: 62.913 ms

Loss rate: 1.42%

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



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-27 00:36:54

End at: 2018-01-27 00:37:24

Below is generated by plot.py at 2018-01-27 05:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.06 Mbit/s

95th percentile per-packet one-way delay: 64.436 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 176.75 Mbit/s

95th percentile per-packet one-way delay: 64.055 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 166.75 Mbit/s

95th percentile per-packet one-way delay: 64.857 ms

Loss rate: 0.60%

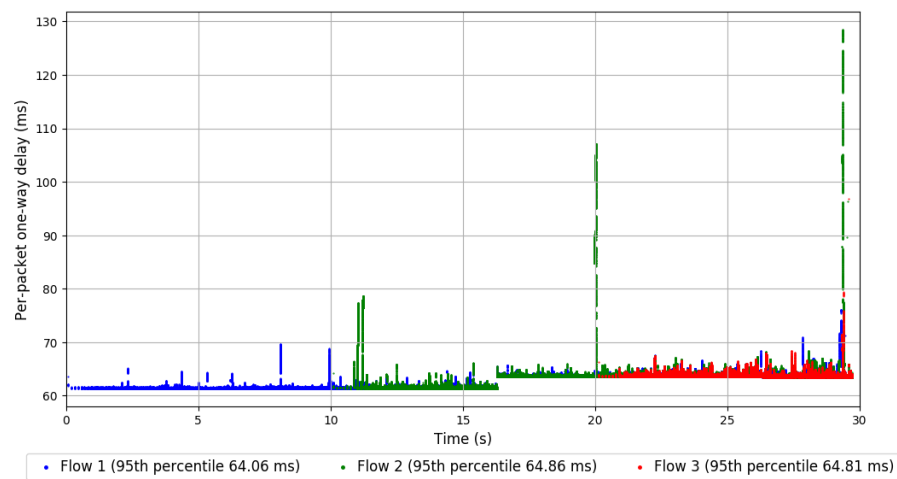
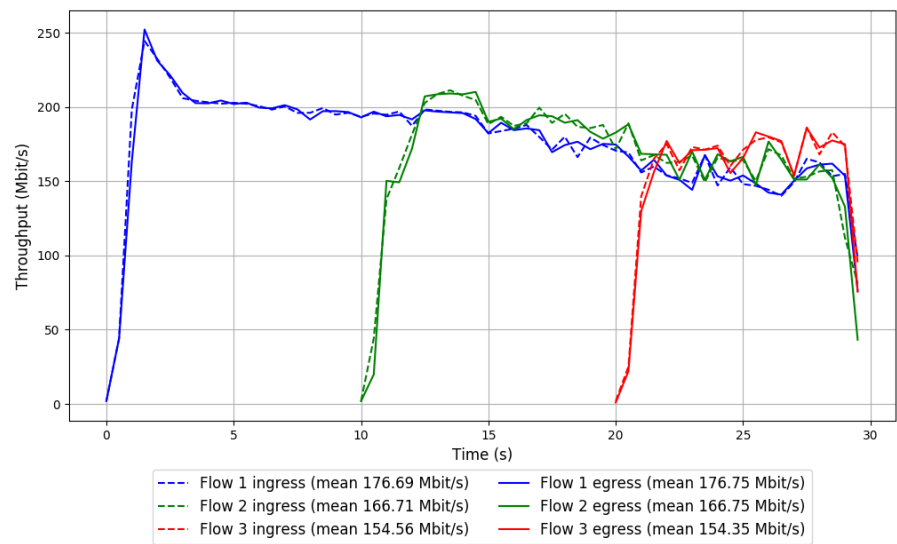
-- Flow 3:

Average throughput: 154.35 Mbit/s

95th percentile per-packet one-way delay: 64.815 ms

Loss rate: 1.44%

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



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-27 00:51:43

End at: 2018-01-27 00:52:13

Below is generated by plot.py at 2018-01-27 05:33:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.21 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 176.55 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 164.82 Mbit/s

95th percentile per-packet one-way delay: 64.191 ms

Loss rate: 0.56%

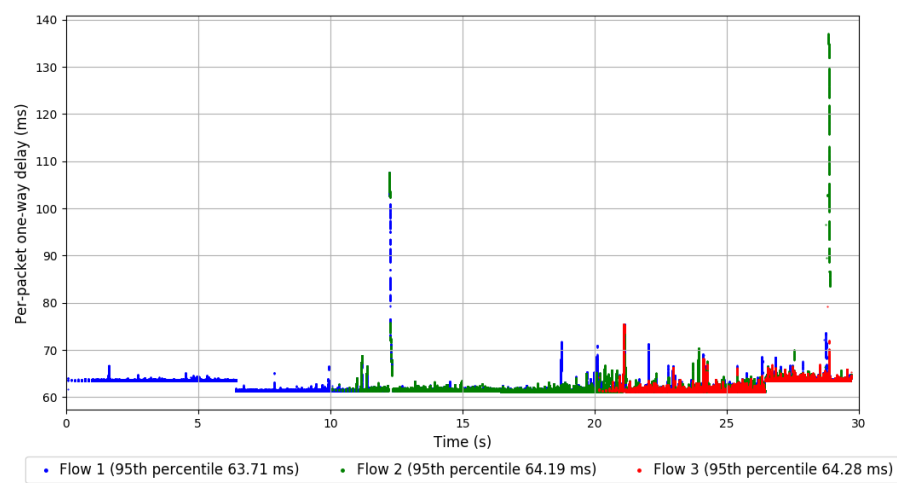
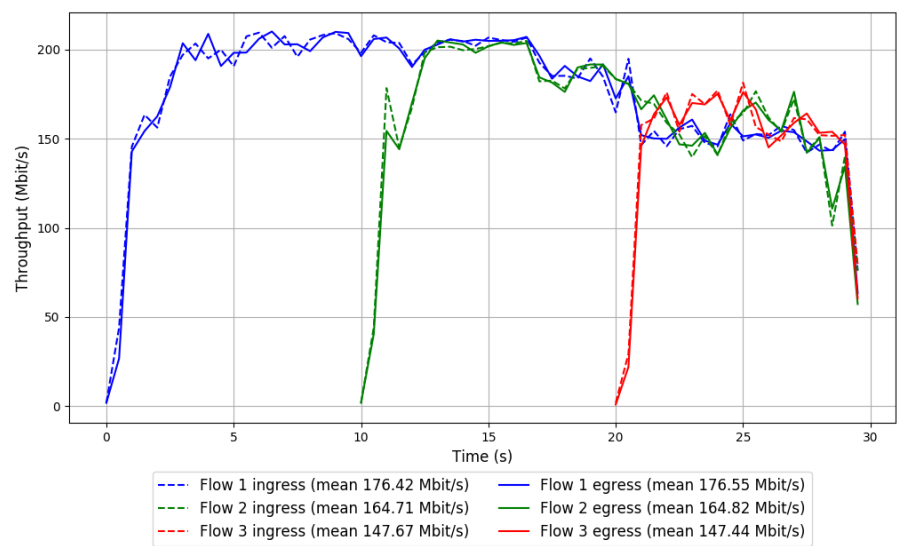
-- Flow 3:

Average throughput: 147.44 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 1.42%

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



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-27 01:06:34

End at: 2018-01-27 01:07:04

Below is generated by plot.py at 2018-01-27 05:33:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.85 Mbit/s

95th percentile per-packet one-way delay: 64.848 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 170.54 Mbit/s

95th percentile per-packet one-way delay: 64.492 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 157.29 Mbit/s

95th percentile per-packet one-way delay: 64.909 ms

Loss rate: 0.59%

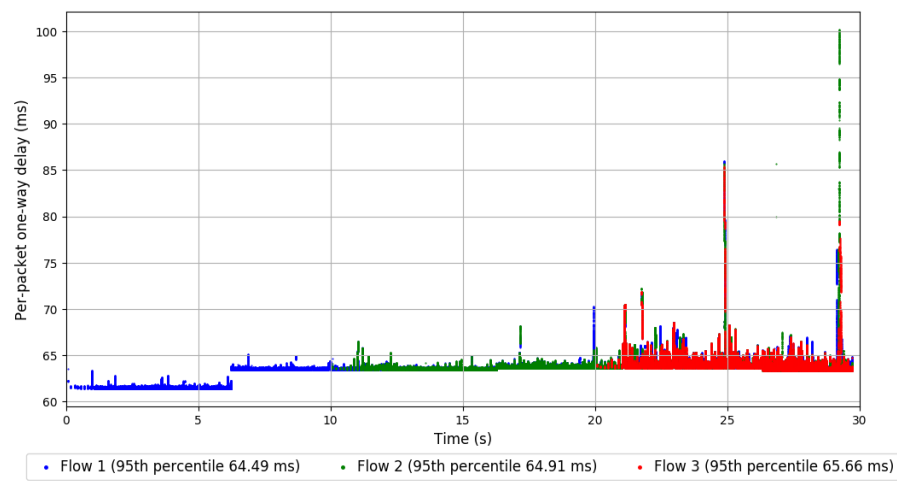
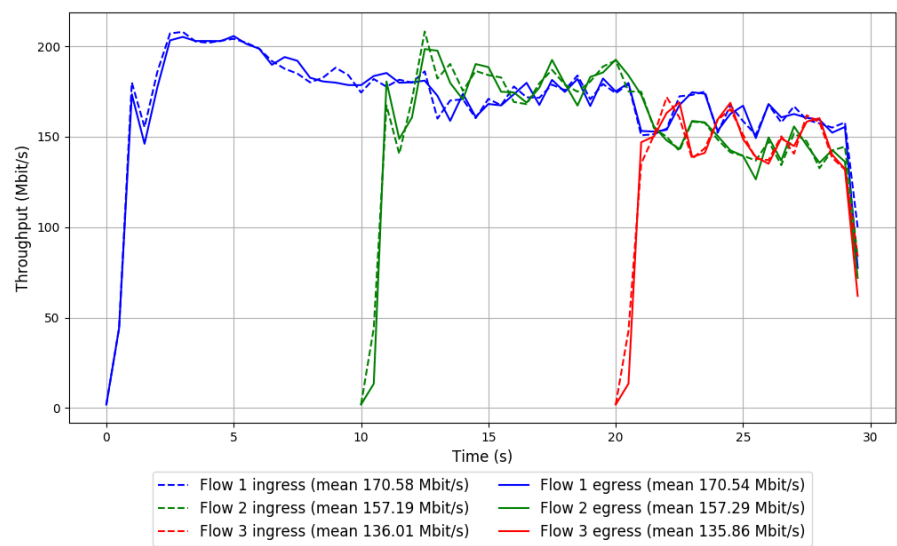
-- Flow 3:

Average throughput: 135.86 Mbit/s

95th percentile per-packet one-way delay: 65.663 ms

Loss rate: 1.41%

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



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-27 01:20:56

End at: 2018-01-27 01:21:26

Below is generated by plot.py at 2018-01-27 05:34:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.81 Mbit/s

95th percentile per-packet one-way delay: 66.554 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 175.64 Mbit/s

95th percentile per-packet one-way delay: 65.738 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 177.25 Mbit/s

95th percentile per-packet one-way delay: 66.959 ms

Loss rate: 0.62%

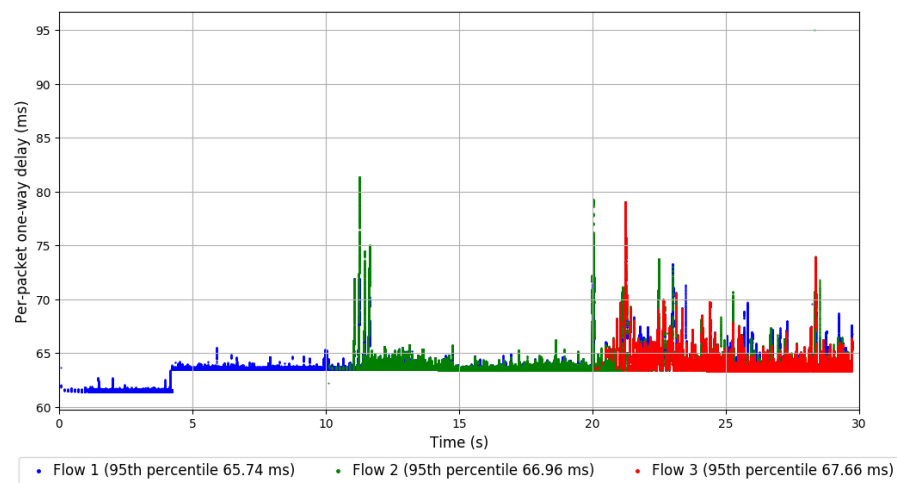
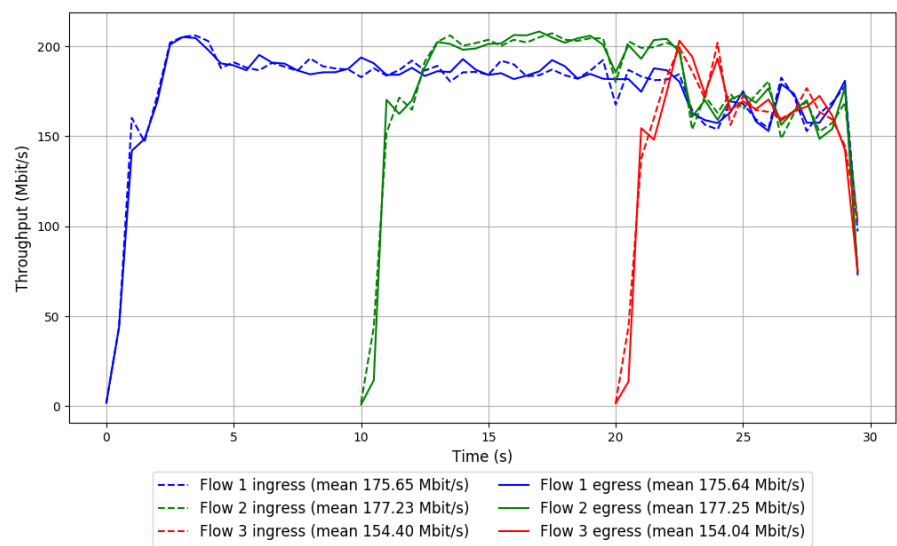
-- Flow 3:

Average throughput: 154.04 Mbit/s

95th percentile per-packet one-way delay: 67.662 ms

Loss rate: 1.54%

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



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-27 01:35:38

End at: 2018-01-27 01:36:08

Below is generated by plot.py at 2018-01-27 05:35:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.78 Mbit/s

95th percentile per-packet one-way delay: 64.587 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 177.86 Mbit/s

95th percentile per-packet one-way delay: 64.192 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 171.79 Mbit/s

95th percentile per-packet one-way delay: 64.702 ms

Loss rate: 0.59%

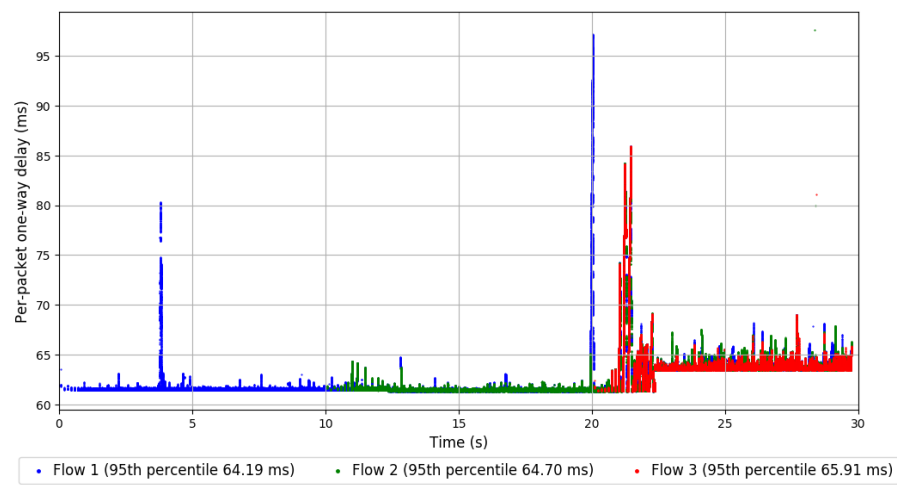
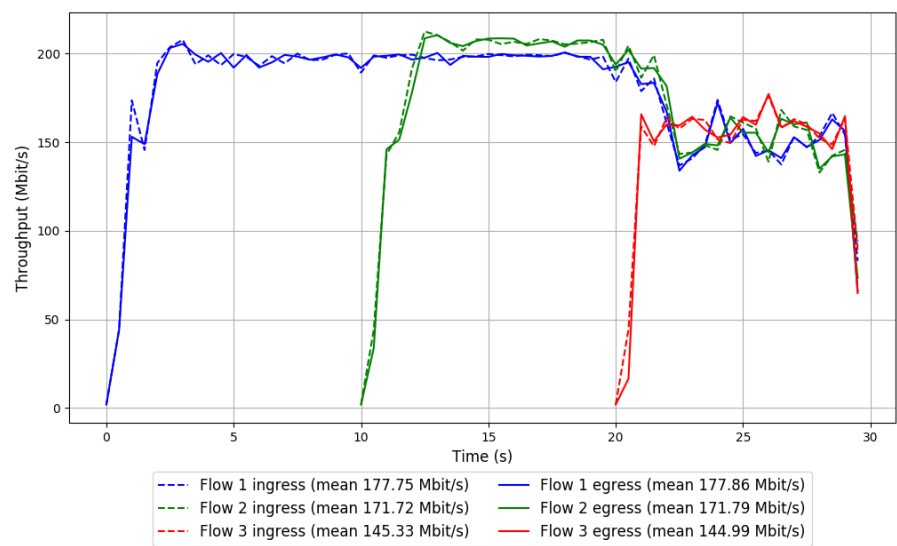
-- Flow 3:

Average throughput: 144.99 Mbit/s

95th percentile per-packet one-way delay: 65.914 ms

Loss rate: 1.53%

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



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-27 01:50:24

End at: 2018-01-27 01:50:54

Below is generated by plot.py at 2018-01-27 05:36:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.03 Mbit/s

95th percentile per-packet one-way delay: 64.214 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 169.83 Mbit/s

95th percentile per-packet one-way delay: 63.861 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 165.77 Mbit/s

95th percentile per-packet one-way delay: 64.611 ms

Loss rate: 0.53%

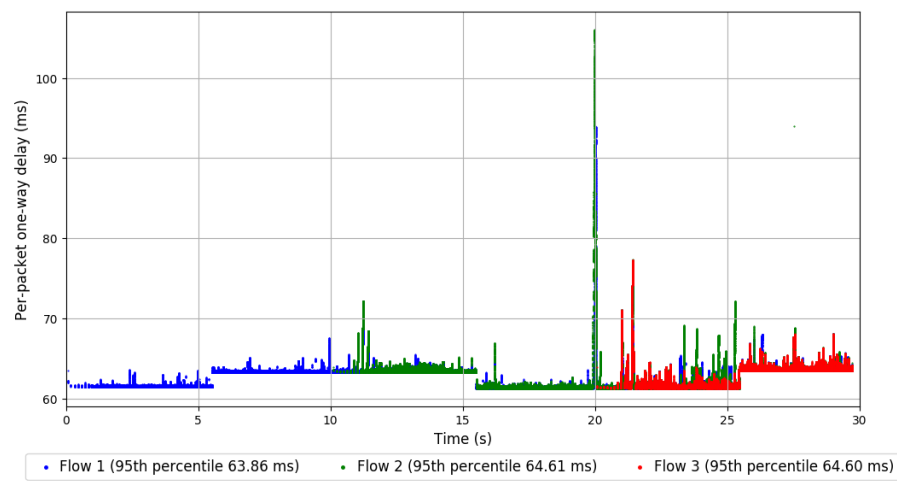
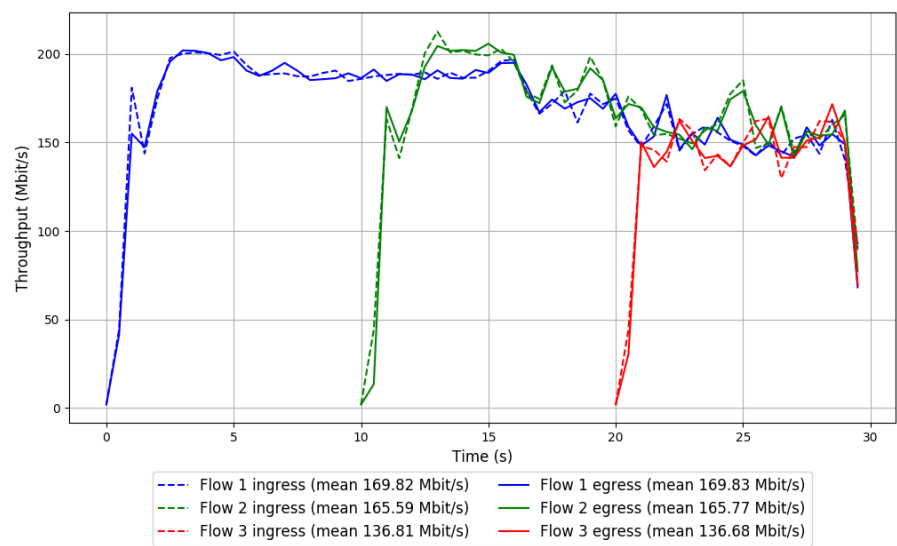
-- Flow 3:

Average throughput: 136.68 Mbit/s

95th percentile per-packet one-way delay: 64.599 ms

Loss rate: 1.38%

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

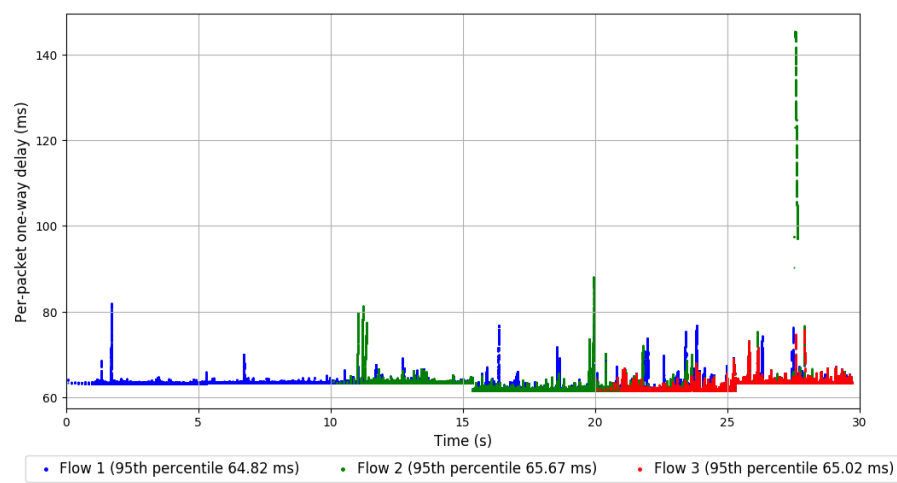
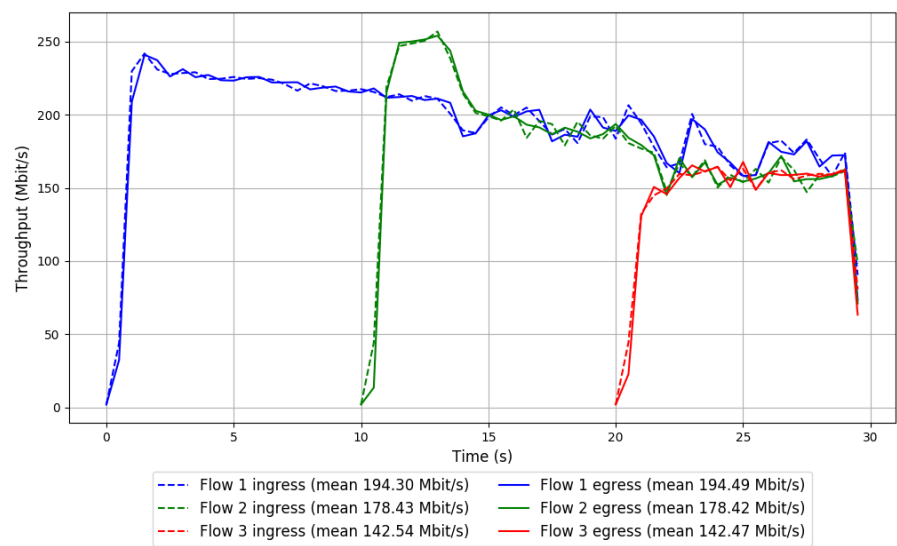


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 23:39:14
End at: 2018-01-26 23:39:45

# Below is generated by plot.py at 2018-01-27 05:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.80 Mbit/s
95th percentile per-packet one-way delay: 65.083 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 194.49 Mbit/s
95th percentile per-packet one-way delay: 64.816 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 178.42 Mbit/s
95th percentile per-packet one-way delay: 65.671 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 142.47 Mbit/s
95th percentile per-packet one-way delay: 65.019 ms
Loss rate: 1.35%
```

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

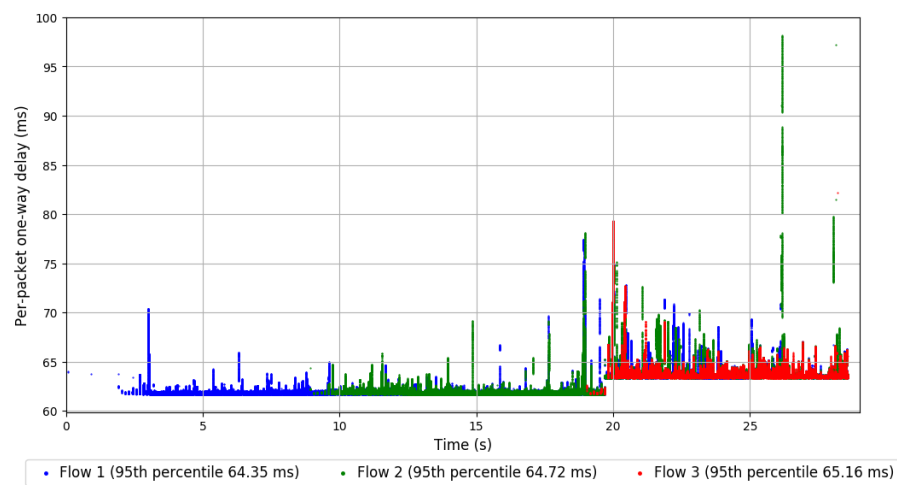
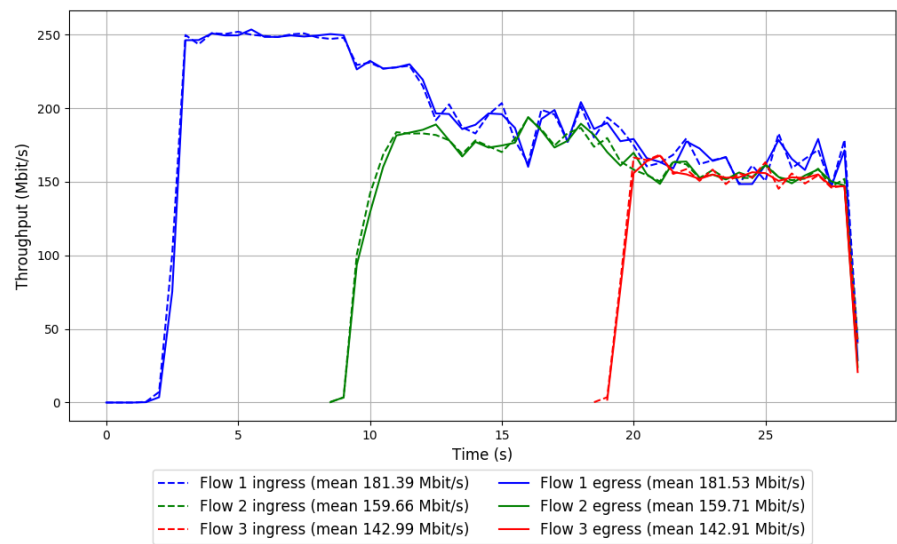


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 23:53:59
End at: 2018-01-26 23:54:29

# Below is generated by plot.py at 2018-01-27 05:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.40 Mbit/s
95th percentile per-packet one-way delay: 64.624 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 181.53 Mbit/s
95th percentile per-packet one-way delay: 64.352 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 159.71 Mbit/s
95th percentile per-packet one-way delay: 64.719 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 142.91 Mbit/s
95th percentile per-packet one-way delay: 65.158 ms
Loss rate: 1.34%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-27 00:08:29

End at: 2018-01-27 00:08:59

Below is generated by plot.py at 2018-01-27 05:38:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.55 Mbit/s

95th percentile per-packet one-way delay: 64.361 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 182.13 Mbit/s

95th percentile per-packet one-way delay: 64.003 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 176.43 Mbit/s

95th percentile per-packet one-way delay: 64.477 ms

Loss rate: 0.62%

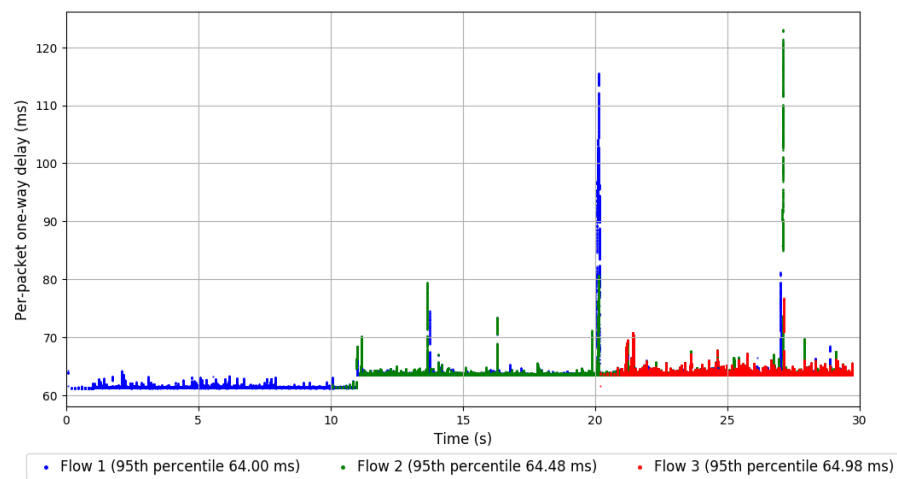
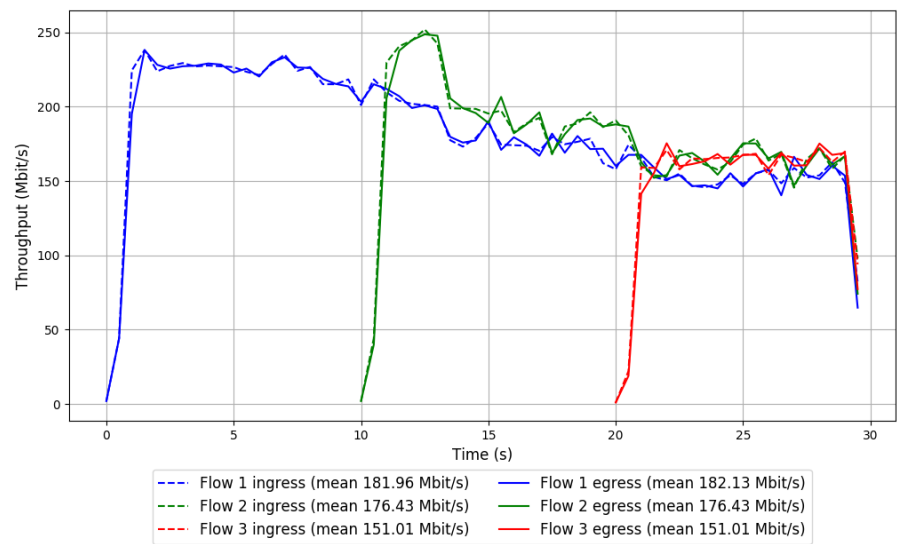
-- Flow 3:

Average throughput: 151.01 Mbit/s

95th percentile per-packet one-way delay: 64.984 ms

Loss rate: 1.29%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-27 00:23:10

End at: 2018-01-27 00:23:40

Below is generated by plot.py at 2018-01-27 05:39:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.98 Mbit/s

95th percentile per-packet one-way delay: 63.826 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 188.19 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 174.45 Mbit/s

95th percentile per-packet one-way delay: 63.894 ms

Loss rate: 0.54%

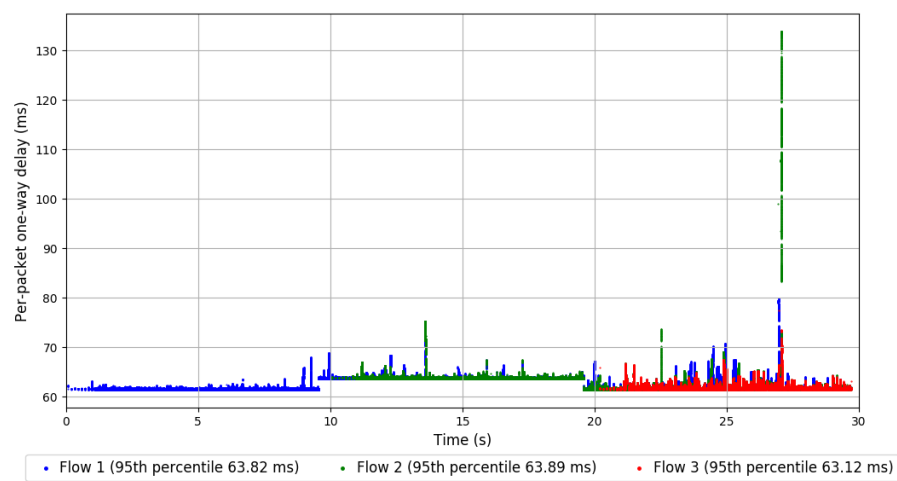
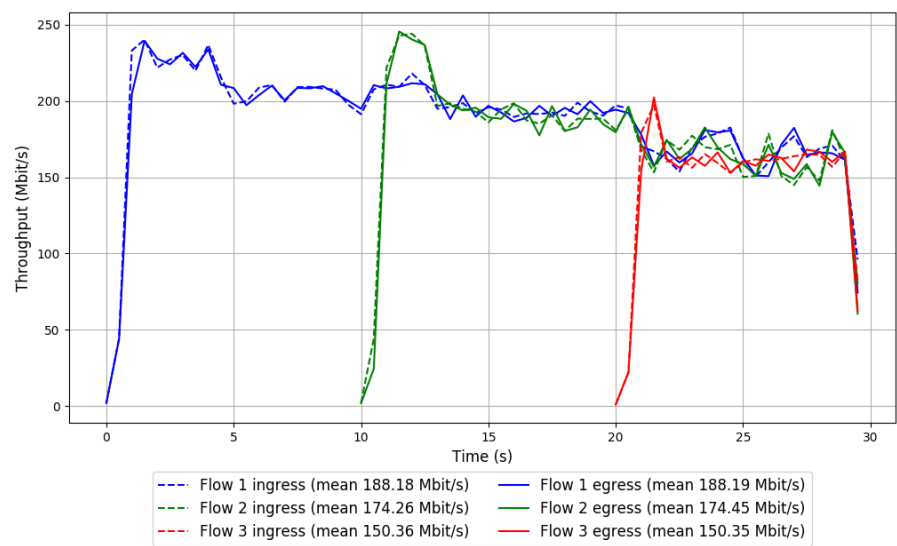
-- Flow 3:

Average throughput: 150.35 Mbit/s

95th percentile per-packet one-way delay: 63.121 ms

Loss rate: 1.30%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-27 00:37:59

End at: 2018-01-27 00:38:29

Below is generated by plot.py at 2018-01-27 05:39:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.21 Mbit/s

95th percentile per-packet one-way delay: 64.993 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 196.37 Mbit/s

95th percentile per-packet one-way delay: 64.621 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 163.57 Mbit/s

95th percentile per-packet one-way delay: 65.053 ms

Loss rate: 0.66%

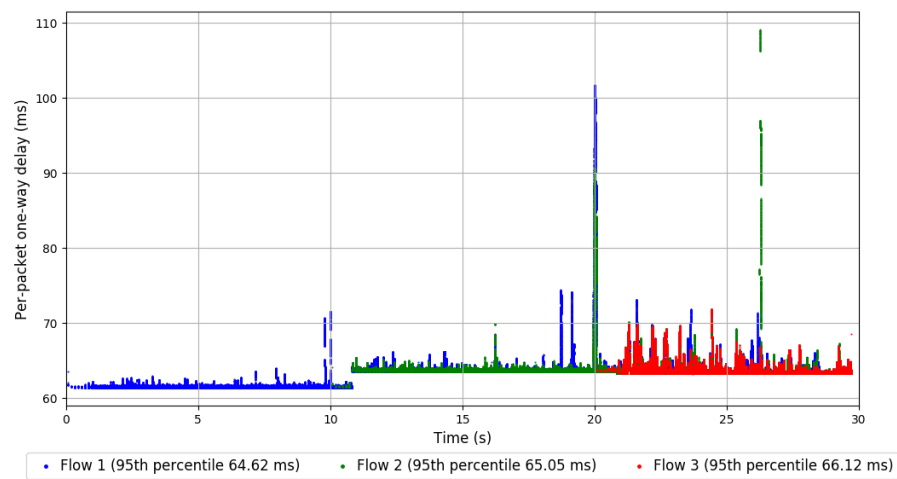
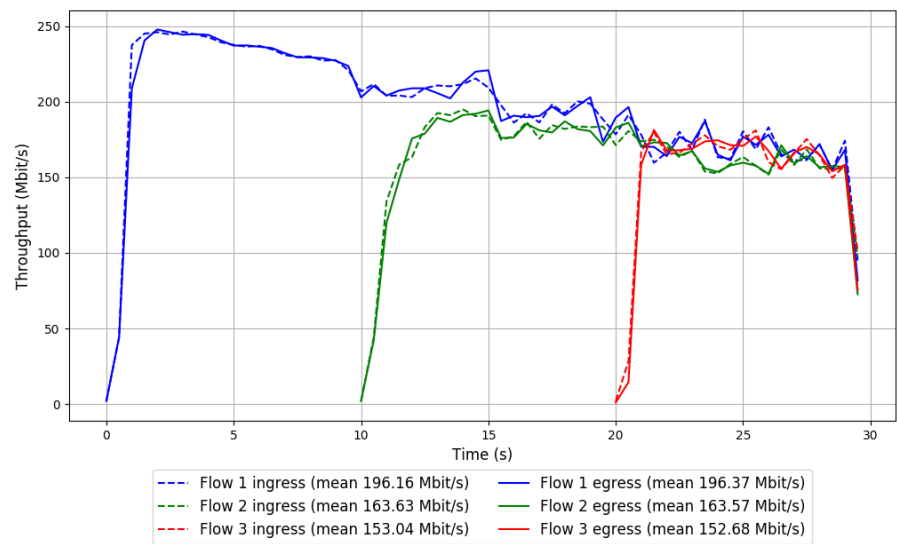
-- Flow 3:

Average throughput: 152.68 Mbit/s

95th percentile per-packet one-way delay: 66.121 ms

Loss rate: 1.49%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-27 00:52:50

End at: 2018-01-27 00:53:20

Below is generated by plot.py at 2018-01-27 05:40:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.82 Mbit/s

95th percentile per-packet one-way delay: 64.371 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 197.93 Mbit/s

95th percentile per-packet one-way delay: 64.134 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 176.85 Mbit/s

95th percentile per-packet one-way delay: 64.683 ms

Loss rate: 0.70%

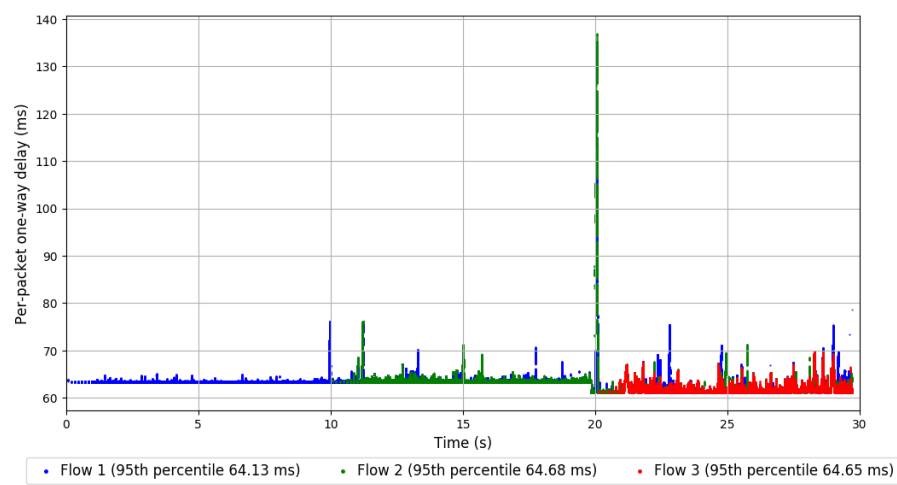
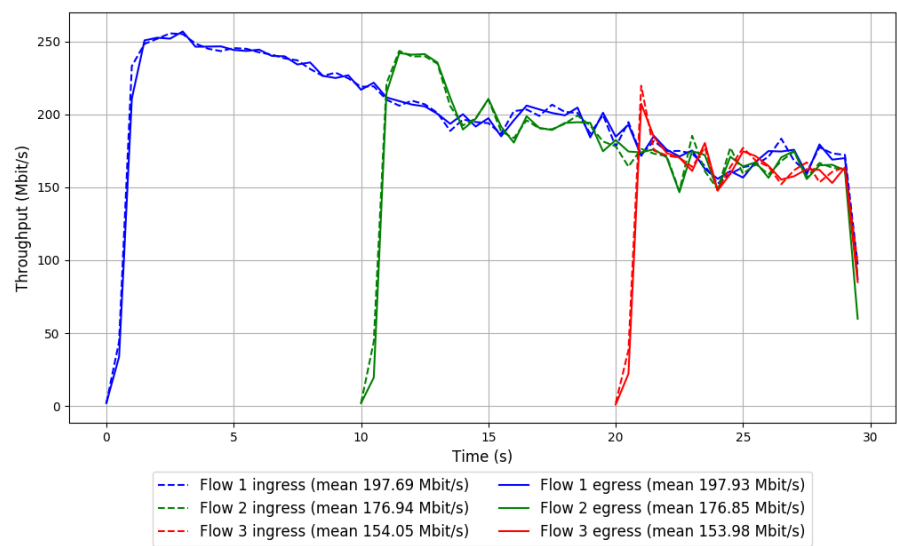
-- Flow 3:

Average throughput: 153.98 Mbit/s

95th percentile per-packet one-way delay: 64.646 ms

Loss rate: 1.32%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-27 01:07:38

End at: 2018-01-27 01:08:08

Below is generated by plot.py at 2018-01-27 05:42:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.08 Mbit/s

95th percentile per-packet one-way delay: 64.785 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 192.65 Mbit/s

95th percentile per-packet one-way delay: 64.435 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 176.80 Mbit/s

95th percentile per-packet one-way delay: 64.933 ms

Loss rate: 0.54%

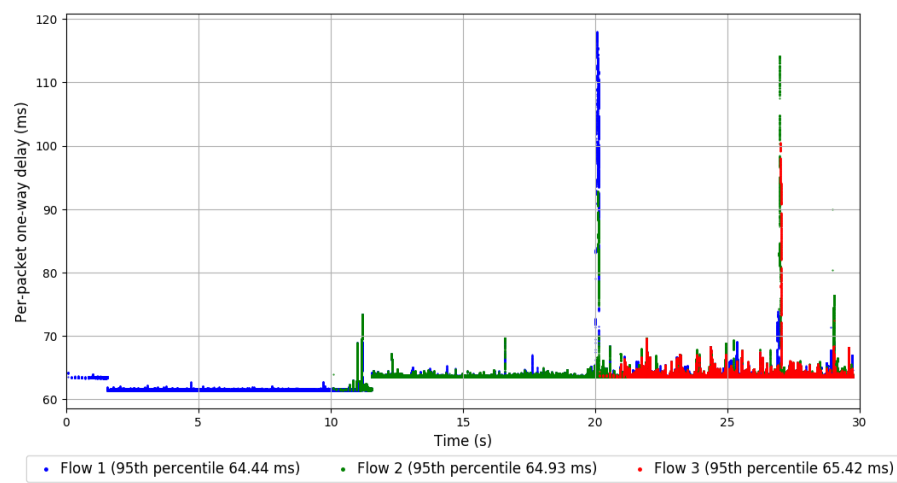
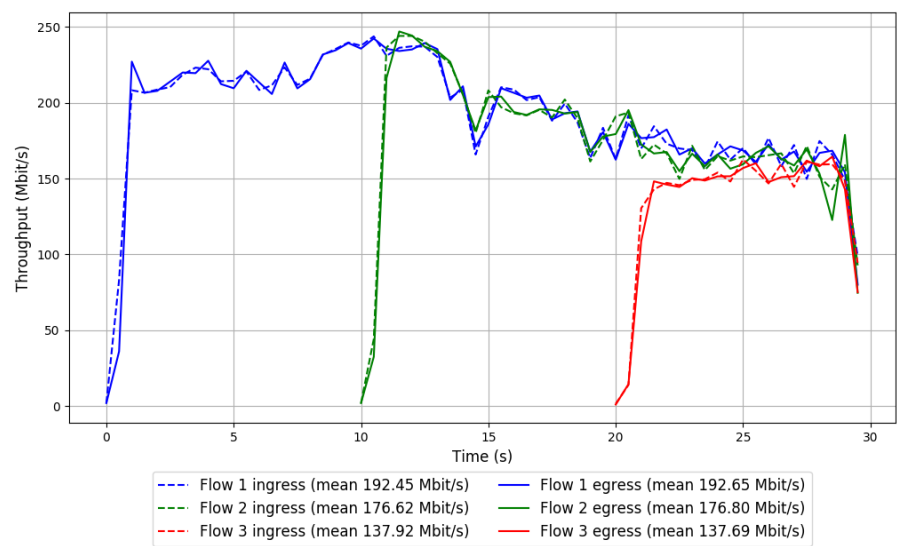
-- Flow 3:

Average throughput: 137.69 Mbit/s

95th percentile per-packet one-way delay: 65.425 ms

Loss rate: 1.47%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-27 01:22:02

End at: 2018-01-27 01:22:32

Below is generated by plot.py at 2018-01-27 05:42:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.75 Mbit/s

95th percentile per-packet one-way delay: 64.225 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 191.13 Mbit/s

95th percentile per-packet one-way delay: 63.969 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 176.56 Mbit/s

95th percentile per-packet one-way delay: 64.354 ms

Loss rate: 0.59%

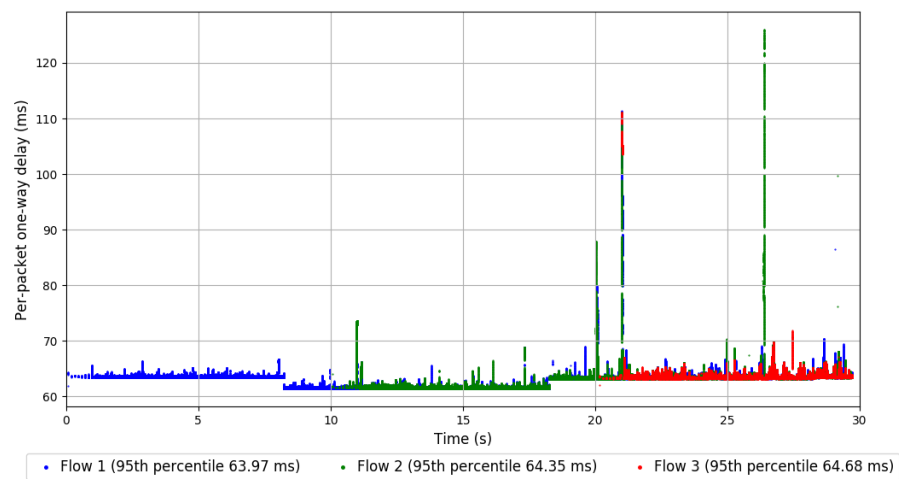
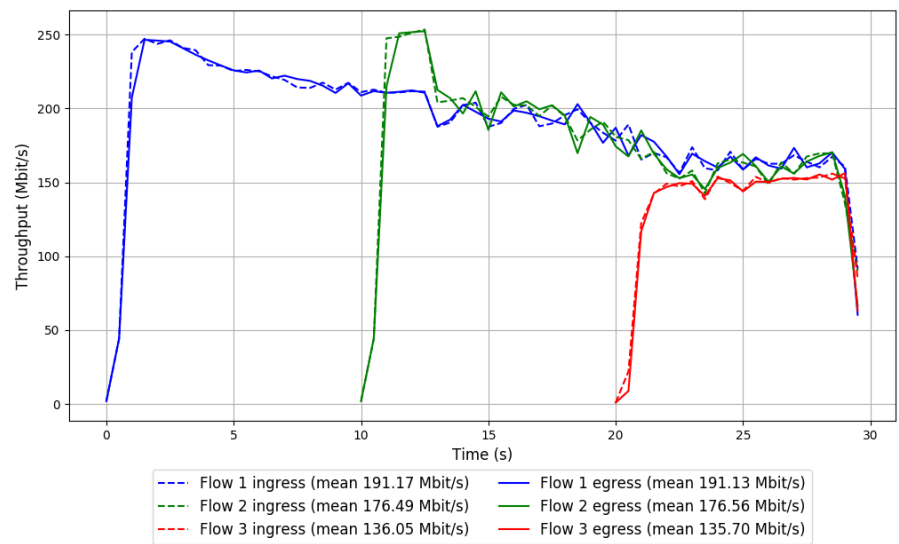
-- Flow 3:

Average throughput: 135.70 Mbit/s

95th percentile per-packet one-way delay: 64.679 ms

Loss rate: 1.54%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-27 01:36:43

End at: 2018-01-27 01:37:13

Below is generated by plot.py at 2018-01-27 05:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.11 Mbit/s

95th percentile per-packet one-way delay: 63.836 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 194.58 Mbit/s

95th percentile per-packet one-way delay: 63.488 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 169.83 Mbit/s

95th percentile per-packet one-way delay: 64.302 ms

Loss rate: 0.72%

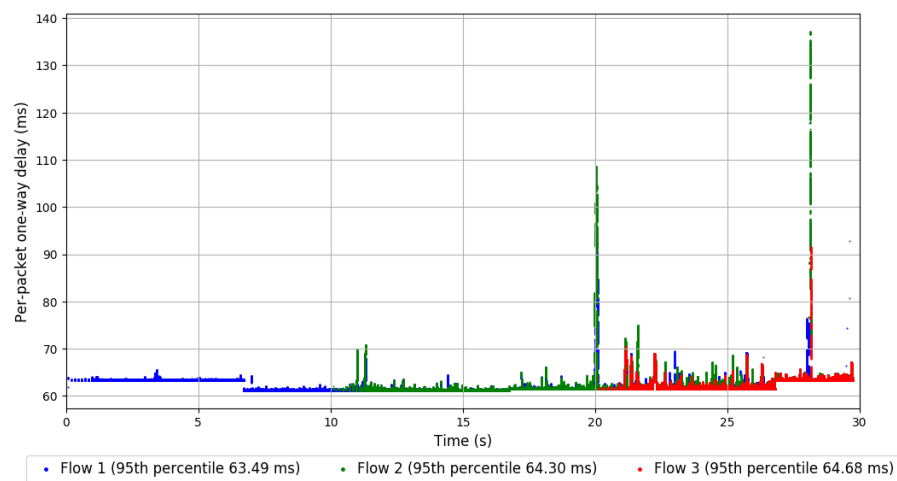
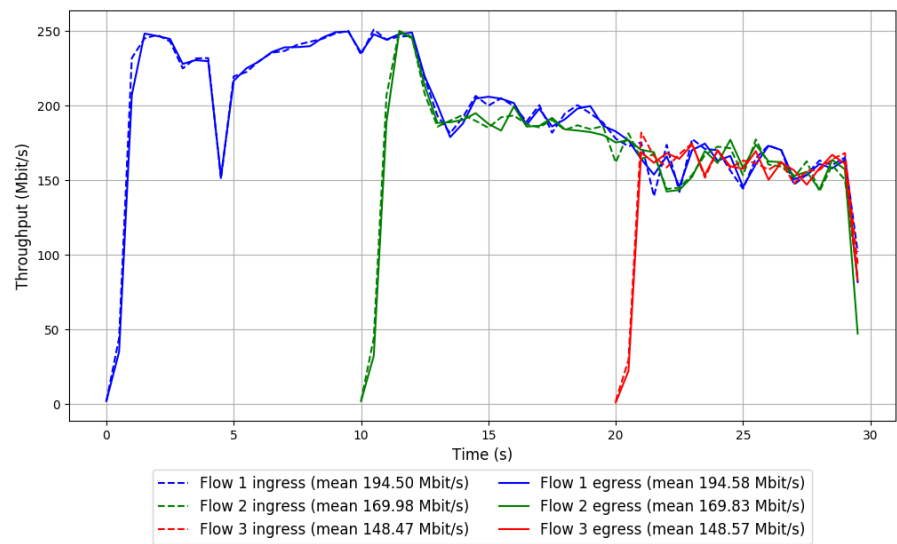
-- Flow 3:

Average throughput: 148.57 Mbit/s

95th percentile per-packet one-way delay: 64.681 ms

Loss rate: 1.25%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-27 01:51:29

End at: 2018-01-27 01:51:59

Below is generated by plot.py at 2018-01-27 05:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.54 Mbit/s

95th percentile per-packet one-way delay: 64.872 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 189.43 Mbit/s

95th percentile per-packet one-way delay: 64.351 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 172.80 Mbit/s

95th percentile per-packet one-way delay: 65.471 ms

Loss rate: 0.58%

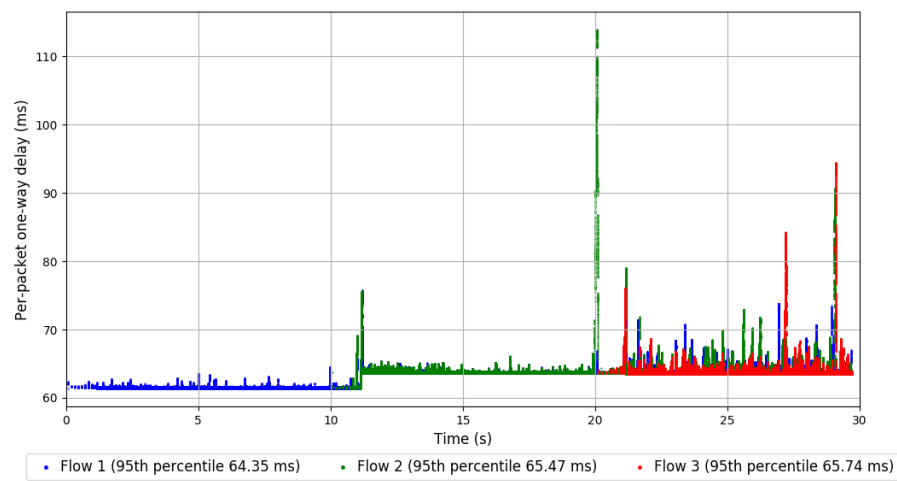
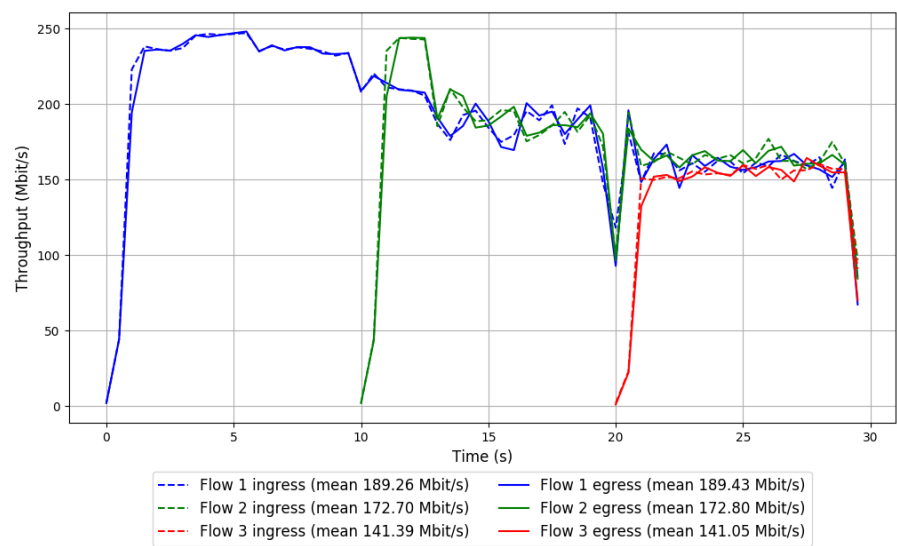
-- Flow 3:

Average throughput: 141.05 Mbit/s

95th percentile per-packet one-way delay: 65.743 ms

Loss rate: 1.55%

Run 10: Report of Indigo-1-32 — Data Link

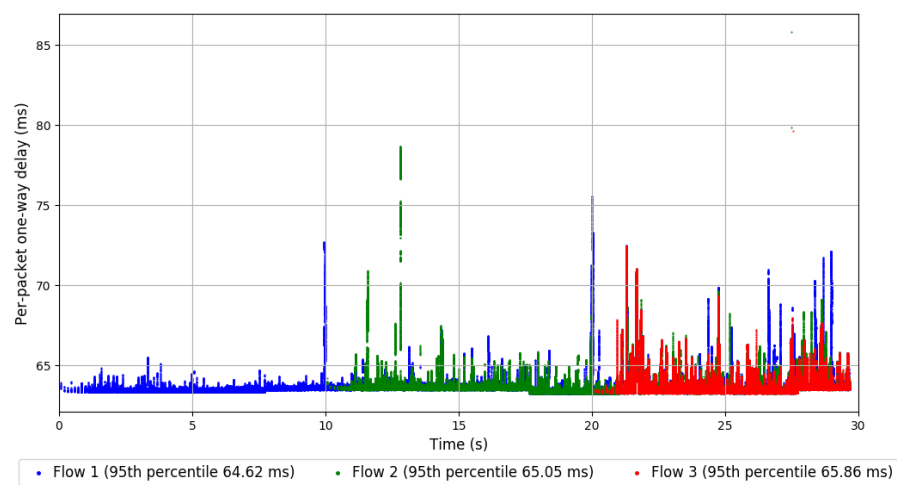
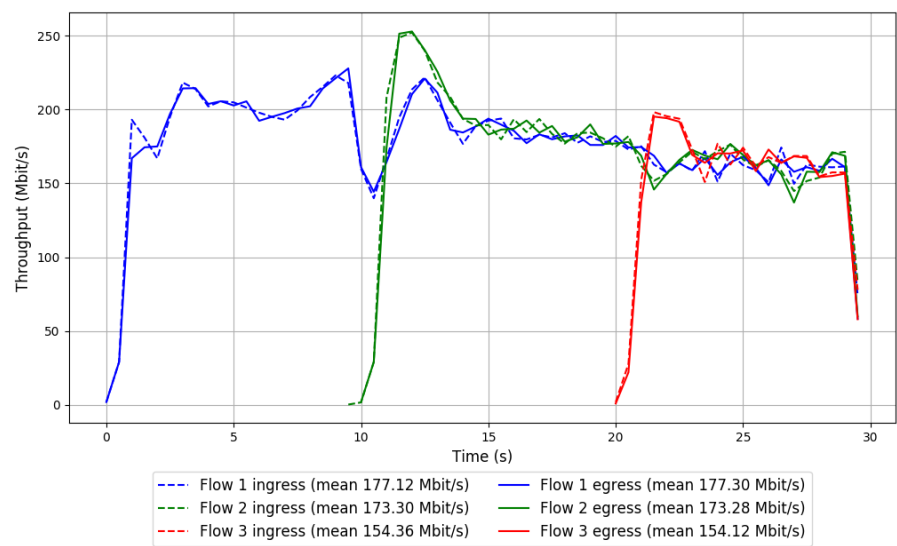


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 23:42:02
End at: 2018-01-26 23:42:32

# Below is generated by plot.py at 2018-01-27 05:44:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.78 Mbit/s
95th percentile per-packet one-way delay: 65.001 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 177.30 Mbit/s
95th percentile per-packet one-way delay: 64.624 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 173.28 Mbit/s
95th percentile per-packet one-way delay: 65.054 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 154.12 Mbit/s
95th percentile per-packet one-way delay: 65.863 ms
Loss rate: 1.44%
```


Run 1: Report of Indigo-1-128 — Data Link

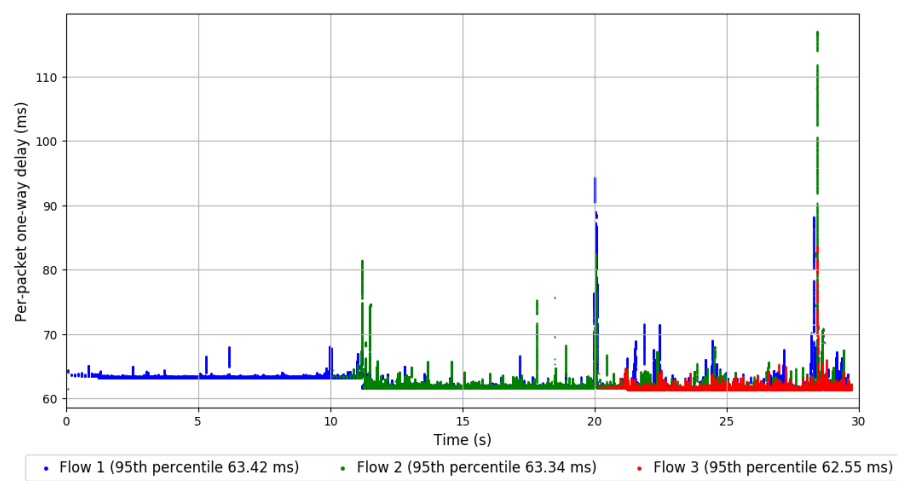
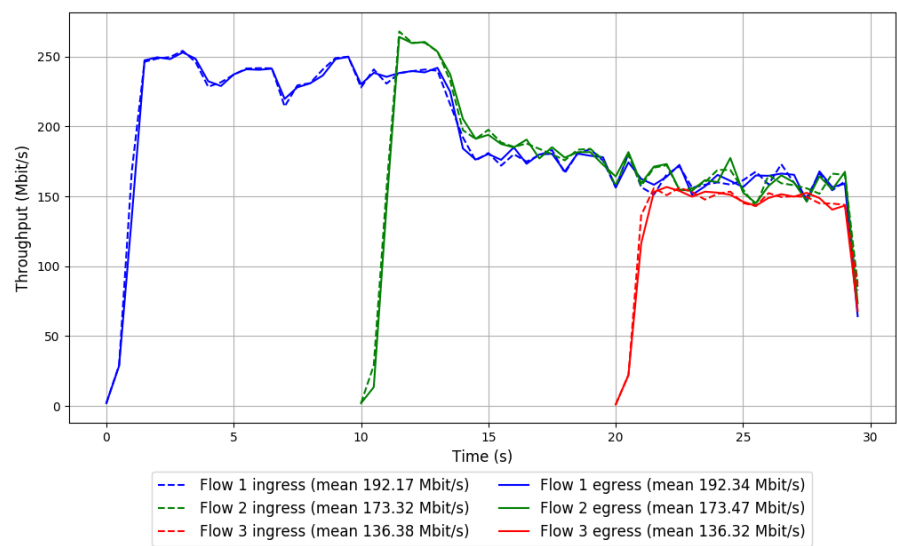


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 23:56:49
End at: 2018-01-26 23:57:19

# Below is generated by plot.py at 2018-01-27 05:45:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.93 Mbit/s
95th percentile per-packet one-way delay: 63.395 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 192.34 Mbit/s
95th percentile per-packet one-way delay: 63.416 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 173.47 Mbit/s
95th percentile per-packet one-way delay: 63.339 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 136.32 Mbit/s
95th percentile per-packet one-way delay: 62.548 ms
Loss rate: 1.32%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-27 00:11:15

End at: 2018-01-27 00:11:45

Below is generated by plot.py at 2018-01-27 05:45:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.88 Mbit/s

95th percentile per-packet one-way delay: 63.852 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 191.13 Mbit/s

95th percentile per-packet one-way delay: 63.526 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 172.49 Mbit/s

95th percentile per-packet one-way delay: 64.212 ms

Loss rate: 0.55%

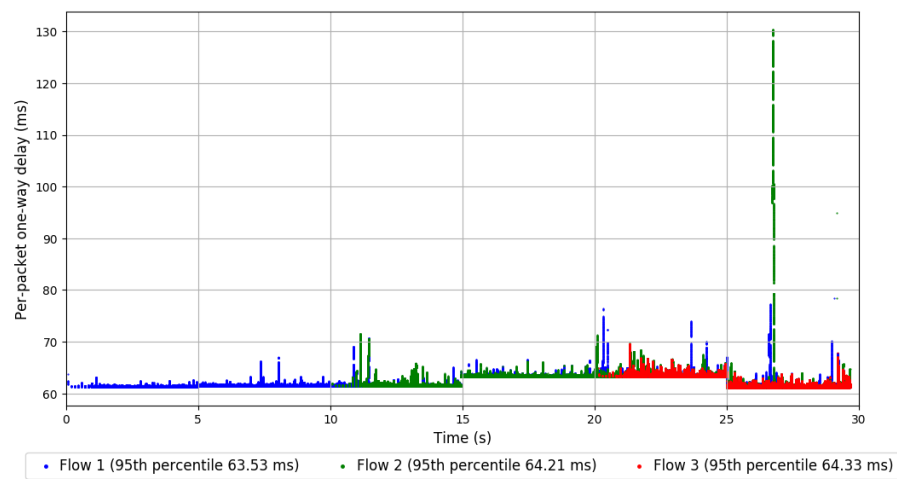
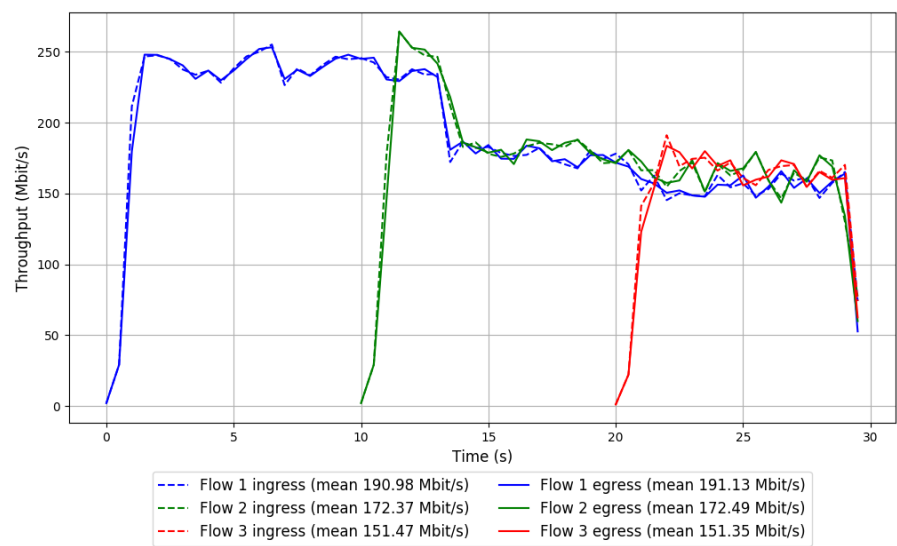
-- Flow 3:

Average throughput: 151.35 Mbit/s

95th percentile per-packet one-way delay: 64.332 ms

Loss rate: 1.41%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-27 00:25:59

End at: 2018-01-27 00:26:29

Below is generated by plot.py at 2018-01-27 05:46:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.01 Mbit/s

95th percentile per-packet one-way delay: 64.719 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 185.90 Mbit/s

95th percentile per-packet one-way delay: 64.234 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 170.45 Mbit/s

95th percentile per-packet one-way delay: 65.567 ms

Loss rate: 0.67%

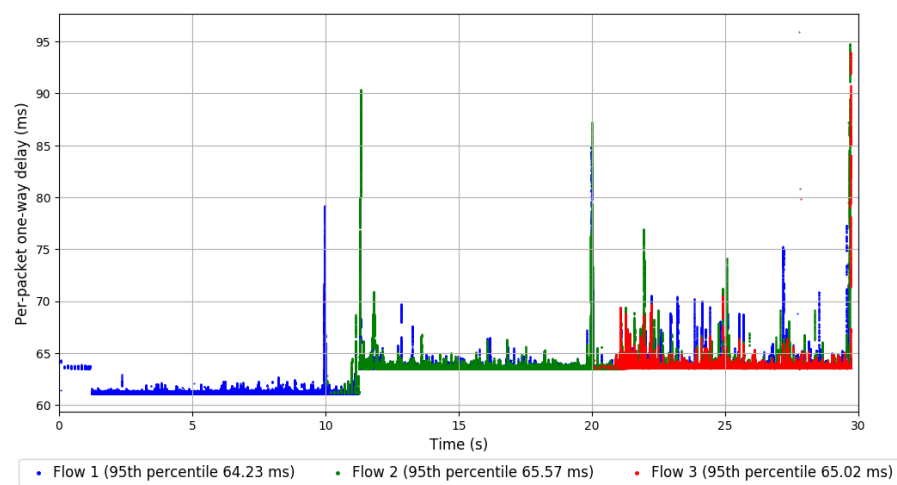
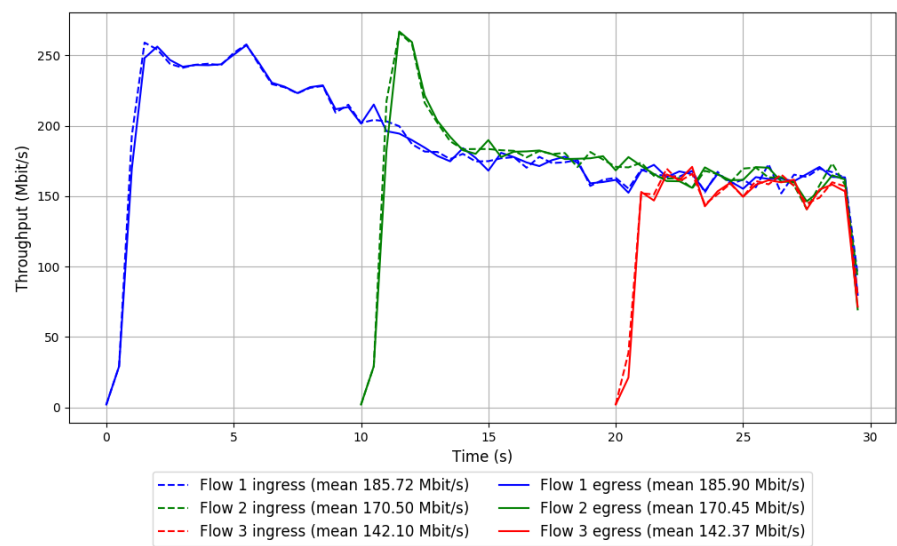
-- Flow 3:

Average throughput: 142.37 Mbit/s

95th percentile per-packet one-way delay: 65.015 ms

Loss rate: 1.12%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-27 00:40:54

End at: 2018-01-27 00:41:24

Below is generated by plot.py at 2018-01-27 05:47:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.21 Mbit/s

95th percentile per-packet one-way delay: 65.497 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 179.66 Mbit/s

95th percentile per-packet one-way delay: 64.919 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 170.68 Mbit/s

95th percentile per-packet one-way delay: 65.737 ms

Loss rate: 0.59%

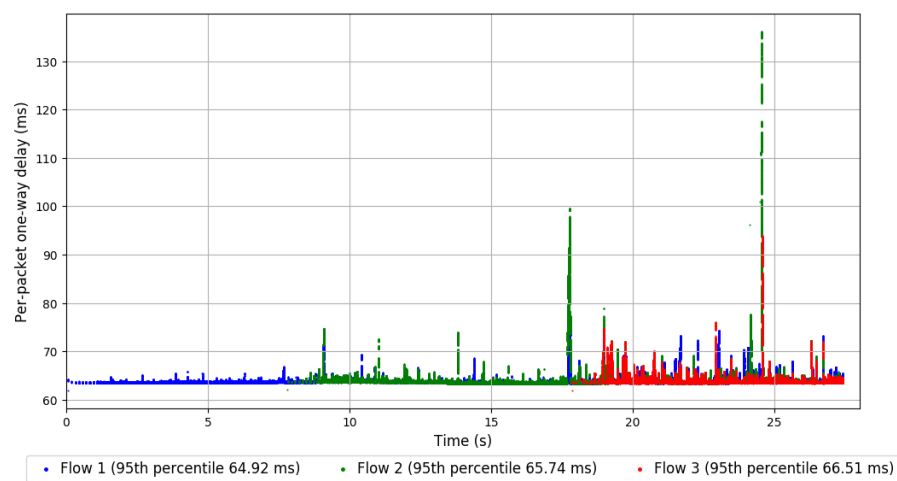
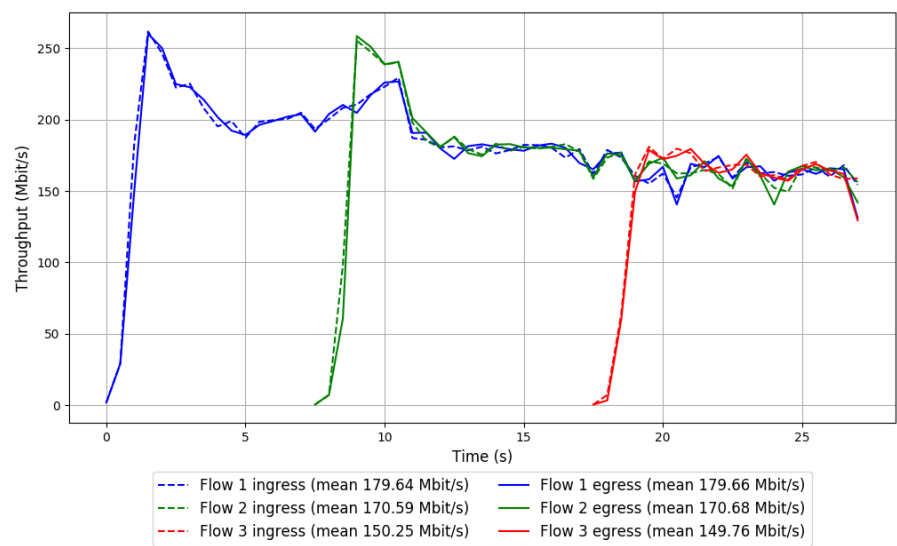
-- Flow 3:

Average throughput: 149.76 Mbit/s

95th percentile per-packet one-way delay: 66.510 ms

Loss rate: 1.60%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-27 00:55:40

End at: 2018-01-27 00:56:10

Below is generated by plot.py at 2018-01-27 05:47:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.24 Mbit/s

95th percentile per-packet one-way delay: 64.509 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 199.20 Mbit/s

95th percentile per-packet one-way delay: 64.065 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 171.43 Mbit/s

95th percentile per-packet one-way delay: 65.394 ms

Loss rate: 0.64%

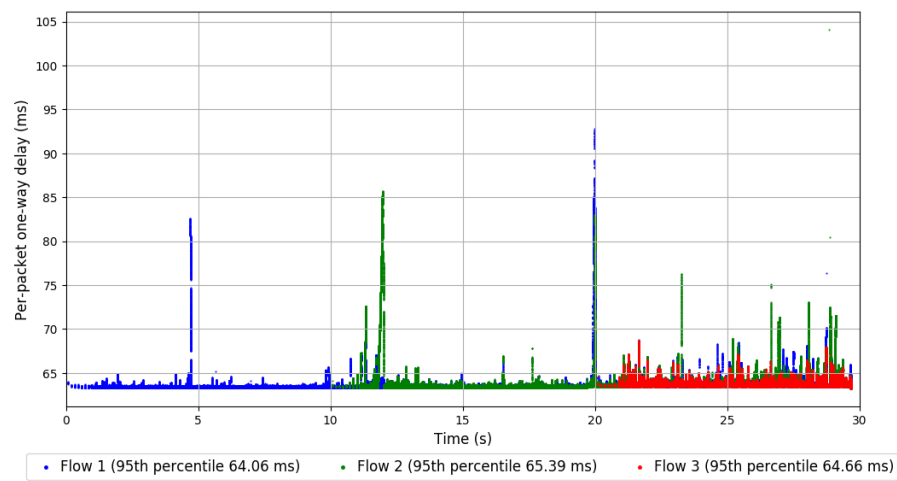
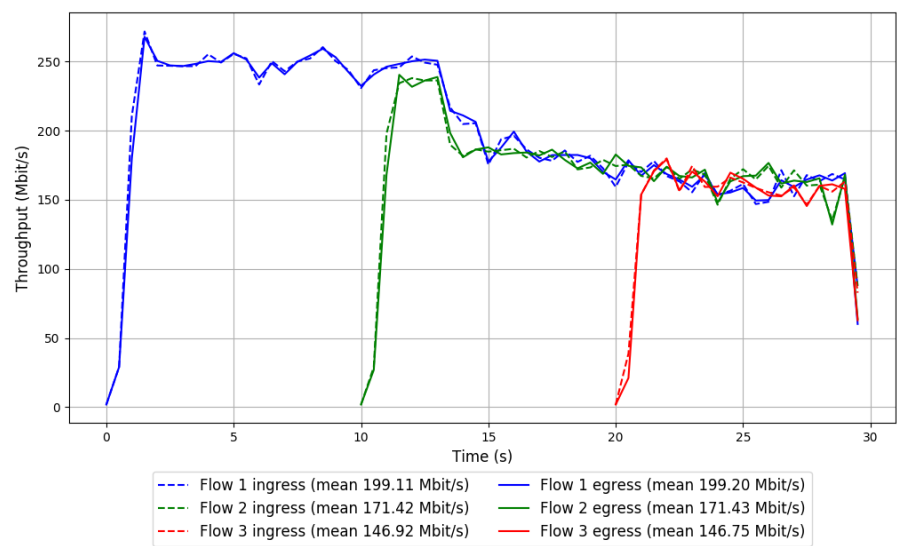
-- Flow 3:

Average throughput: 146.75 Mbit/s

95th percentile per-packet one-way delay: 64.655 ms

Loss rate: 1.43%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-27 01:10:23

End at: 2018-01-27 01:10:53

Below is generated by plot.py at 2018-01-27 05:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.73 Mbit/s

95th percentile per-packet one-way delay: 64.932 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 192.85 Mbit/s

95th percentile per-packet one-way delay: 64.212 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 165.74 Mbit/s

95th percentile per-packet one-way delay: 65.315 ms

Loss rate: 0.66%

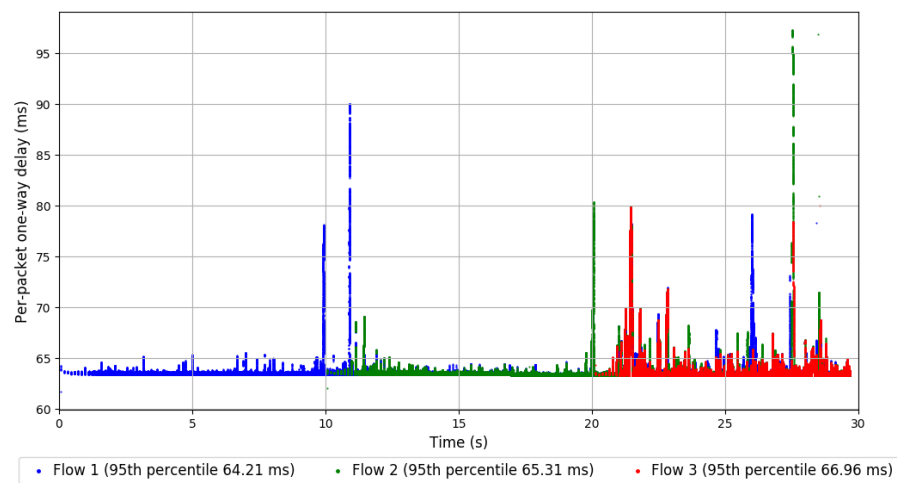
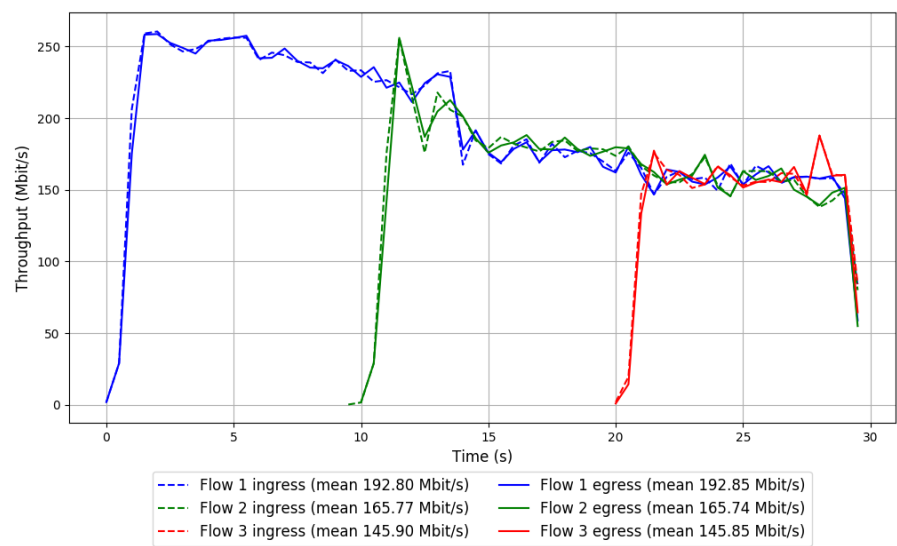
-- Flow 3:

Average throughput: 145.85 Mbit/s

95th percentile per-packet one-way delay: 66.961 ms

Loss rate: 1.37%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-27 01:24:59

End at: 2018-01-27 01:25:29

Below is generated by plot.py at 2018-01-27 05:48:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.48 Mbit/s

95th percentile per-packet one-way delay: 65.443 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 188.81 Mbit/s

95th percentile per-packet one-way delay: 64.887 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 179.31 Mbit/s

95th percentile per-packet one-way delay: 65.668 ms

Loss rate: 0.50%

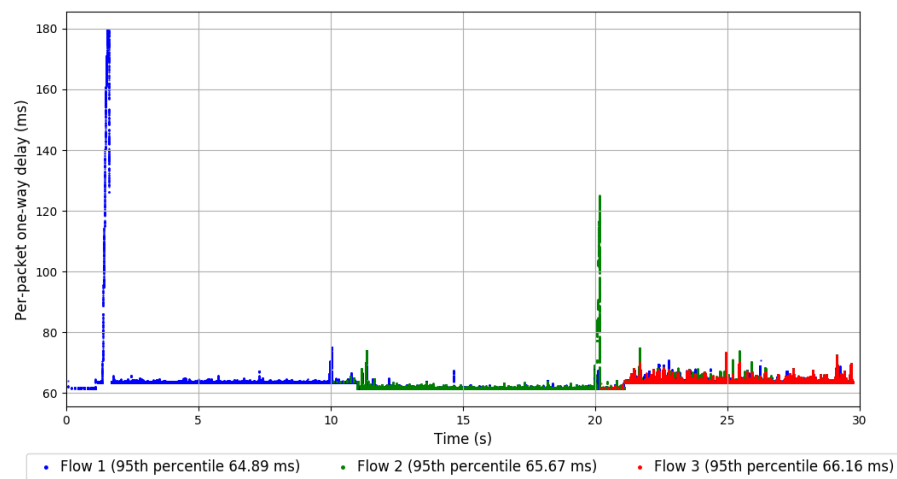
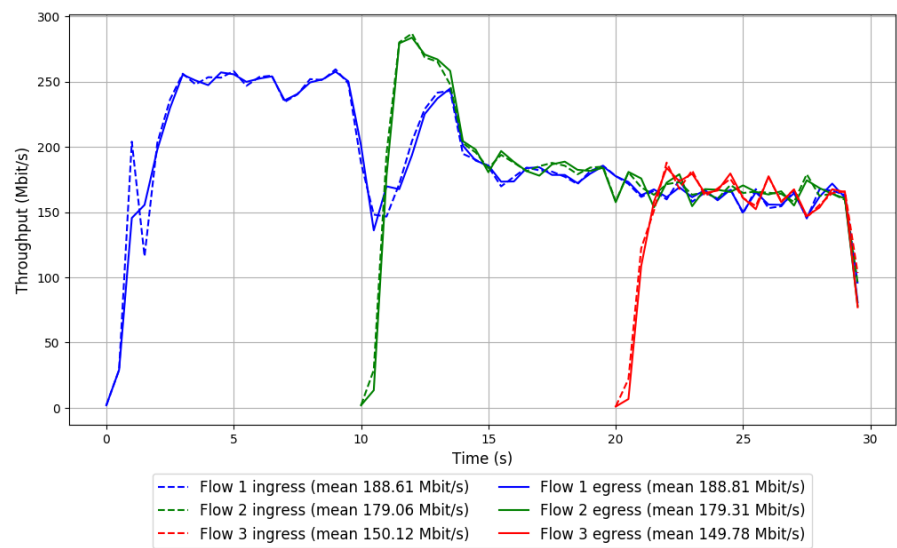
-- Flow 3:

Average throughput: 149.78 Mbit/s

95th percentile per-packet one-way delay: 66.160 ms

Loss rate: 1.54%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-27 01:39:34

End at: 2018-01-27 01:40:04

Below is generated by plot.py at 2018-01-27 05:48:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.52 Mbit/s

95th percentile per-packet one-way delay: 64.695 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 203.06 Mbit/s

95th percentile per-packet one-way delay: 64.368 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 171.59 Mbit/s

95th percentile per-packet one-way delay: 65.104 ms

Loss rate: 0.58%

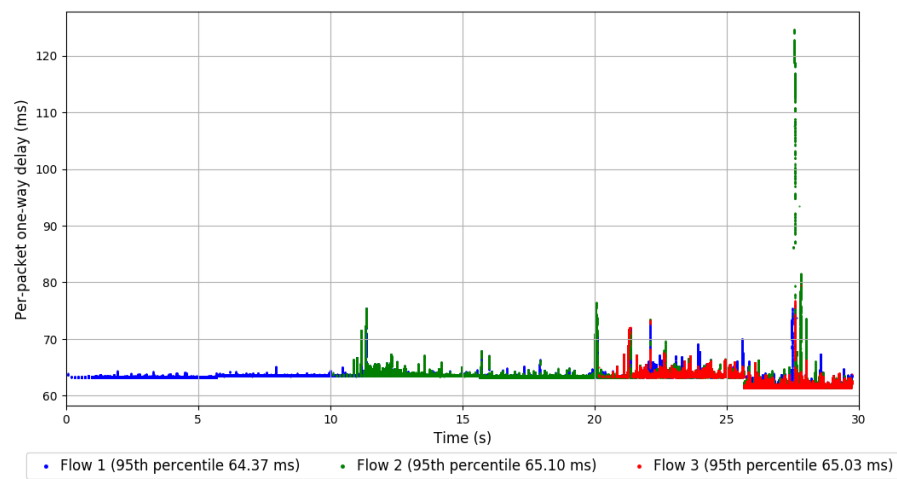
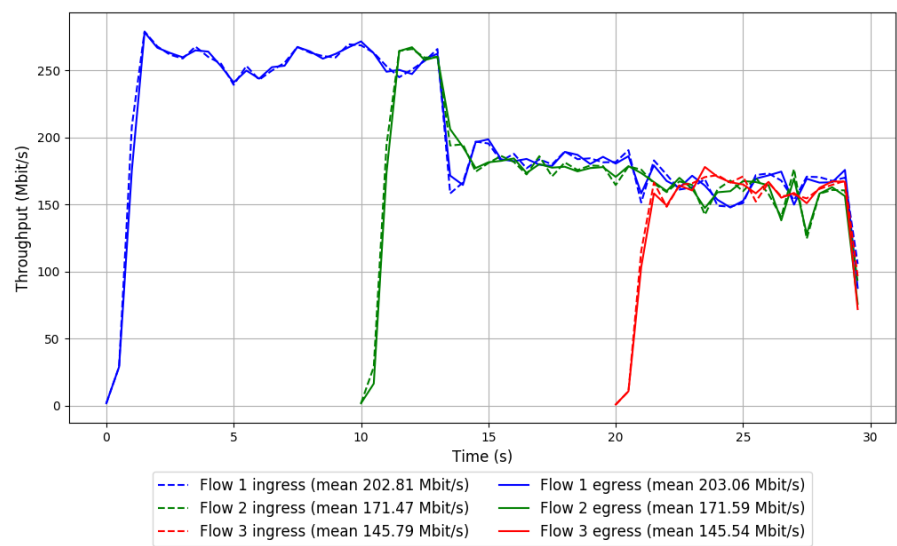
-- Flow 3:

Average throughput: 145.54 Mbit/s

95th percentile per-packet one-way delay: 65.034 ms

Loss rate: 1.50%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-27 01:54:17

End at: 2018-01-27 01:54:47

Below is generated by plot.py at 2018-01-27 05:48:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.21 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 196.41 Mbit/s

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

Loss rate: 0.38%

-- Flow 2:

Average throughput: 167.55 Mbit/s

95th percentile per-packet one-way delay: 63.973 ms

Loss rate: 0.65%

-- Flow 3:

Average throughput: 155.64 Mbit/s

95th percentile per-packet one-way delay: 65.130 ms

Loss rate: 1.53%

Run 10: Report of Indigo-1-128 — Data Link

