

Pantheon Report

Generated at 2018-01-27 06:59:14 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

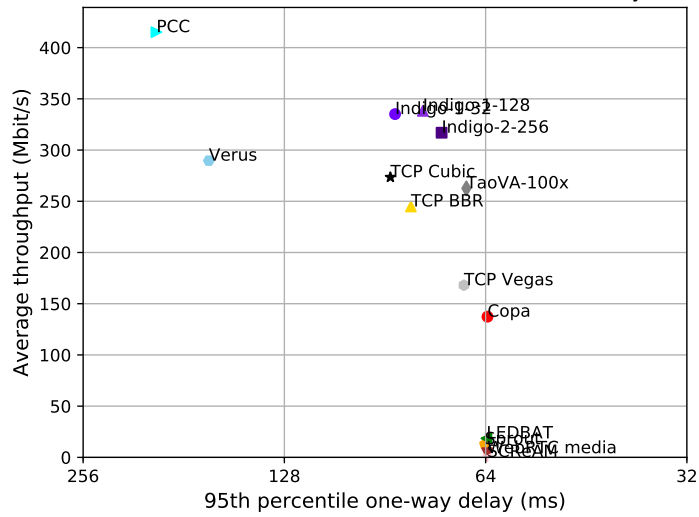
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

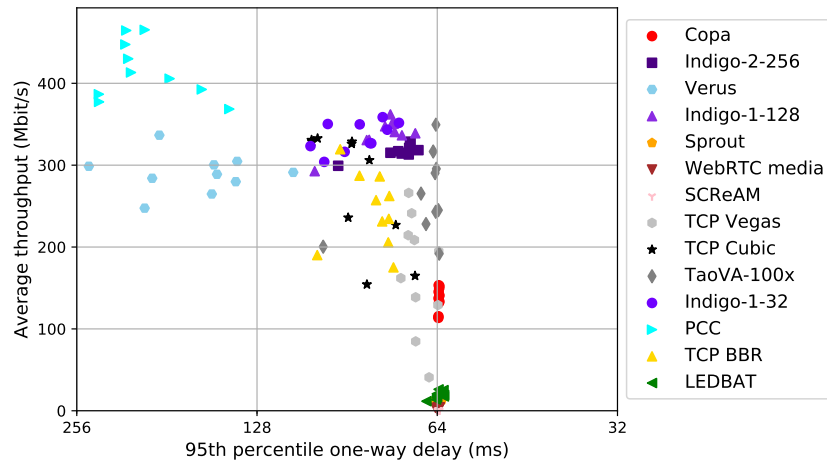
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	121.98	123.91	123.21	79.95	83.12	86.85	0.02	0.05	0.12
TCP Cubic	10	142.50	132.30	129.99	85.96	87.99	90.12	0.06	0.02	0.11
LEDBAT	10	10.75	8.92	5.65	63.84	63.78	63.55	0.11	0.01	0.01
PCC	10	380.77	39.41	23.14	201.00	191.13	174.62	0.88	0.64	0.92
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.22	0.22	0.22	63.45	63.43	63.39	0.00	0.00	0.00
WebRTC media	10	2.18	1.37	0.54	63.45	63.11	64.00	0.00	0.00	0.00
Sprout	9	6.51	6.47	6.09	64.17	64.18	64.09	0.10	0.01	0.15
TaoVA-100x	10	146.52	133.30	106.94	66.84	69.09	70.21	0.00	0.00	0.00
TCP Vegas	10	85.15	90.57	68.25	67.03	68.96	68.12	0.06	0.00	0.05
Verus	10	181.38	124.48	79.45	158.95	171.50	163.07	0.81	0.70	1.36
Copa	10	73.36	70.28	66.53	63.42	63.38	63.24	0.00	0.00	0.00
Indigo-2-256	10	173.27	164.99	106.34	72.39	76.36	75.73	0.01	0.02	0.02
Indigo-1-32	10	184.16	164.71	130.64	85.04	87.95	89.80	0.02	0.03	0.06
Indigo-1-128	10	186.90	176.34	108.23	76.21	81.36	82.30	0.03	0.05	0.10

Run 1: Statistics of TCP BBR

Start at: 2018-01-27 02:11:55

End at: 2018-01-27 02:12:25

Below is generated by plot.py at 2018-01-27 05:52:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.15 Mbit/s

95th percentile per-packet one-way delay: 101.536 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 99.50 Mbit/s

95th percentile per-packet one-way delay: 98.522 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 102.466 ms

Loss rate: 0.37%

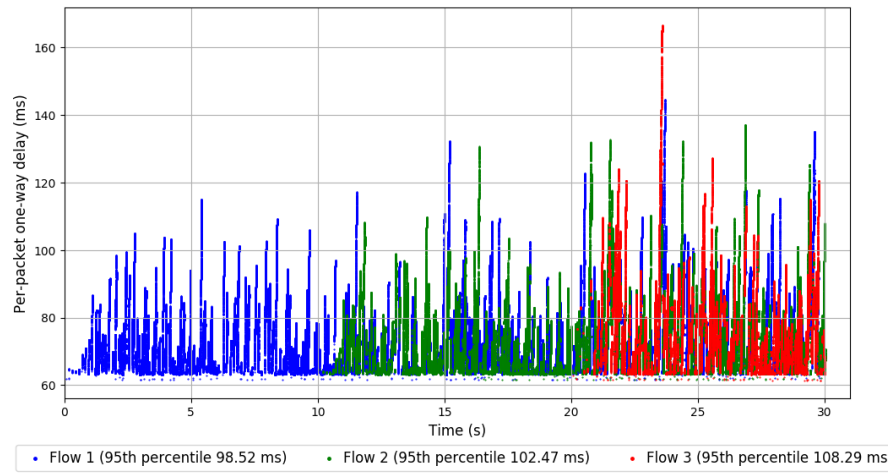
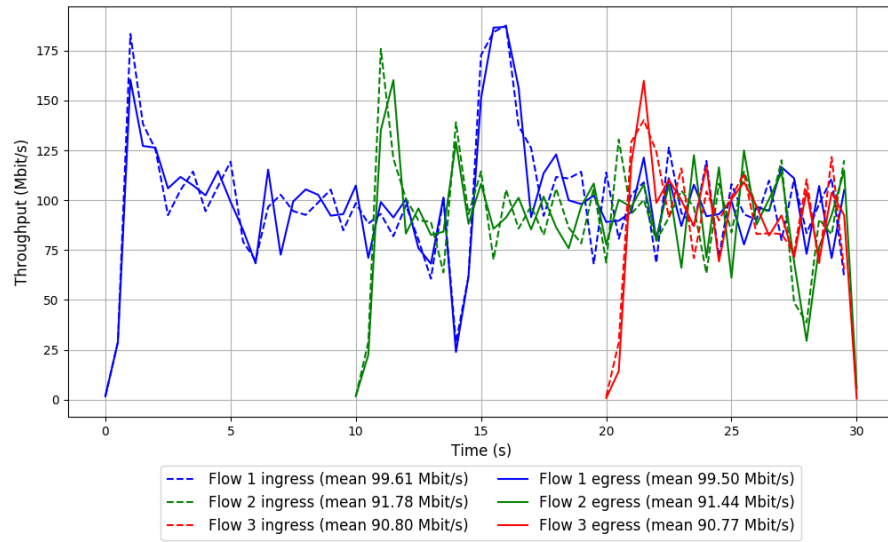
-- Flow 3:

Average throughput: 90.77 Mbit/s

95th percentile per-packet one-way delay: 108.292 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-27 02:25:56

End at: 2018-01-27 02:26:26

Below is generated by plot.py at 2018-01-27 05:53:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.32 Mbit/s

95th percentile per-packet one-way delay: 79.091 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 102.75 Mbit/s

95th percentile per-packet one-way delay: 76.016 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.92 Mbit/s

95th percentile per-packet one-way delay: 79.437 ms

Loss rate: 0.09%

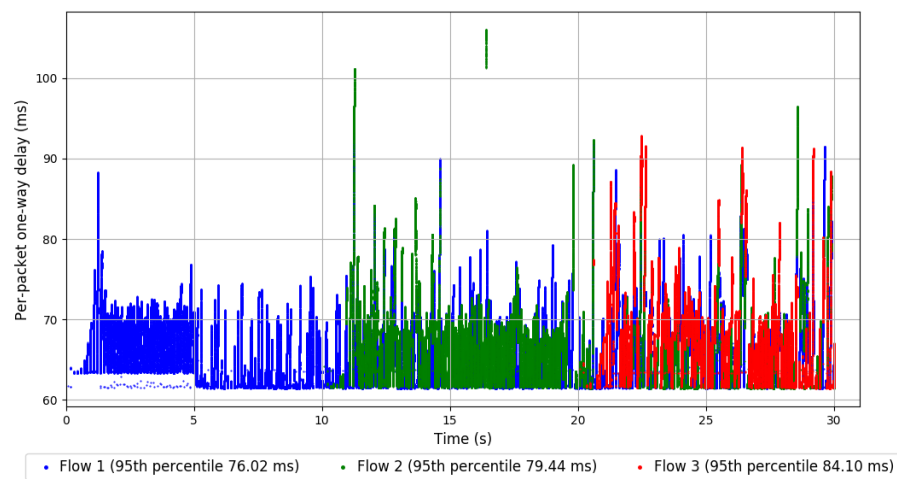
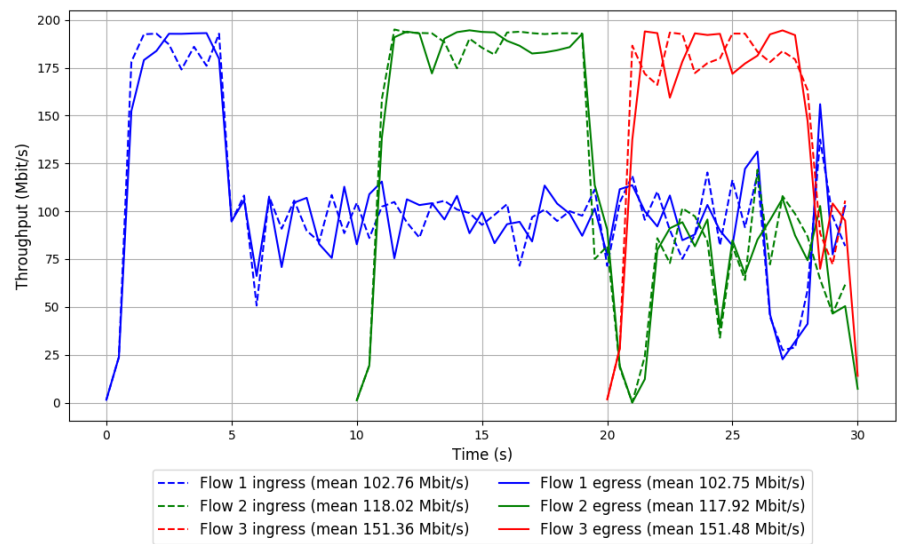
-- Flow 3:

Average throughput: 151.48 Mbit/s

95th percentile per-packet one-way delay: 84.102 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-27 02:40:25

End at: 2018-01-27 02:40:55

Below is generated by plot.py at 2018-01-27 05:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.36 Mbit/s

95th percentile per-packet one-way delay: 76.955 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 131.80 Mbit/s

95th percentile per-packet one-way delay: 75.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.00 Mbit/s

95th percentile per-packet one-way delay: 74.765 ms

Loss rate: 0.01%

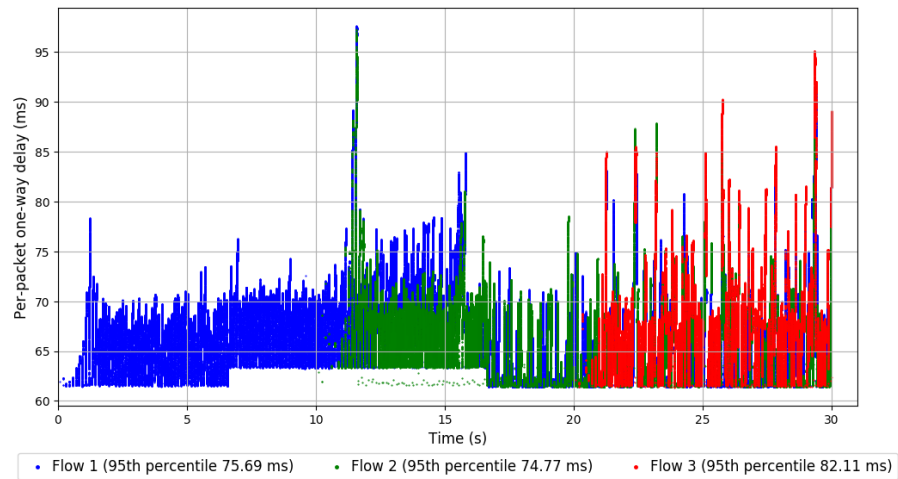
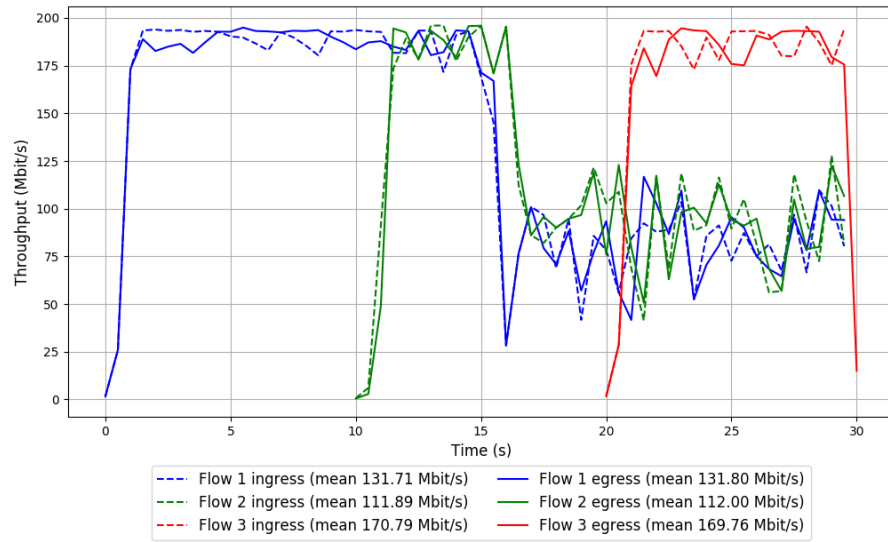
-- Flow 3:

Average throughput: 169.76 Mbit/s

95th percentile per-packet one-way delay: 82.106 ms

Loss rate: 0.50%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-27 02:55:04

End at: 2018-01-27 02:55:34

Below is generated by plot.py at 2018-01-27 05:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.16 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.47 Mbit/s

95th percentile per-packet one-way delay: 74.019 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 75.629 ms

Loss rate: 0.00%

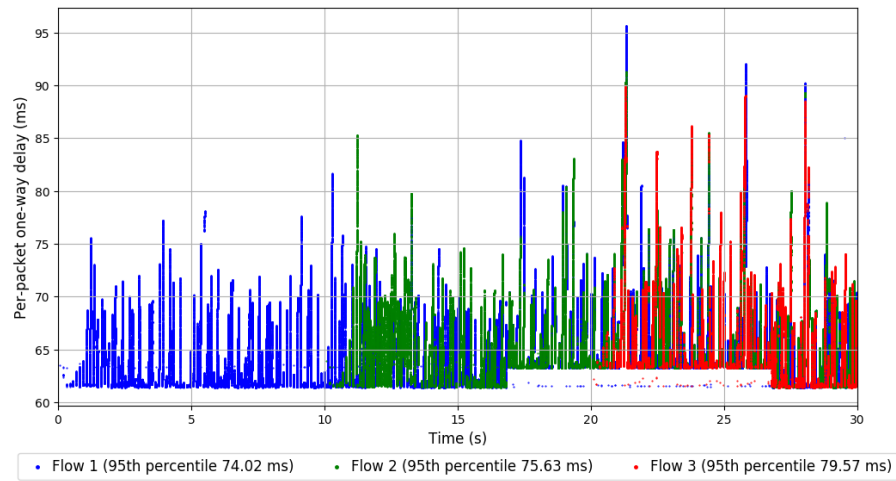
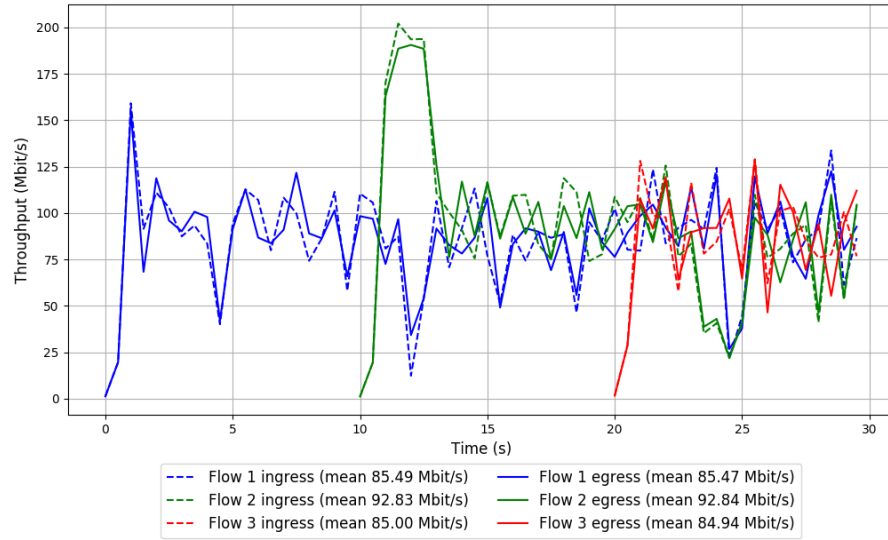
-- Flow 3:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 79.566 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-27 03:09:43

End at: 2018-01-27 03:10:13

Below is generated by plot.py at 2018-01-27 05:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.44 Mbit/s

95th percentile per-packet one-way delay: 77.119 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 120.44 Mbit/s

95th percentile per-packet one-way delay: 73.524 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.05 Mbit/s

95th percentile per-packet one-way delay: 80.326 ms

Loss rate: 0.00%

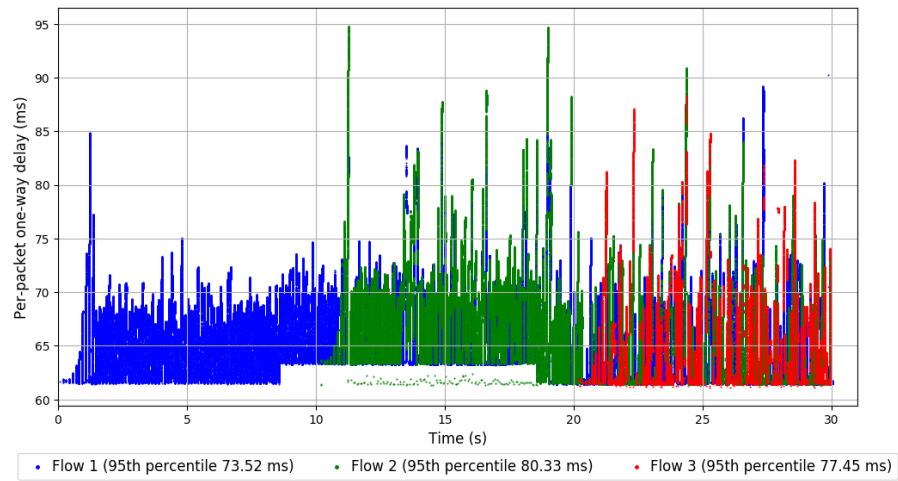
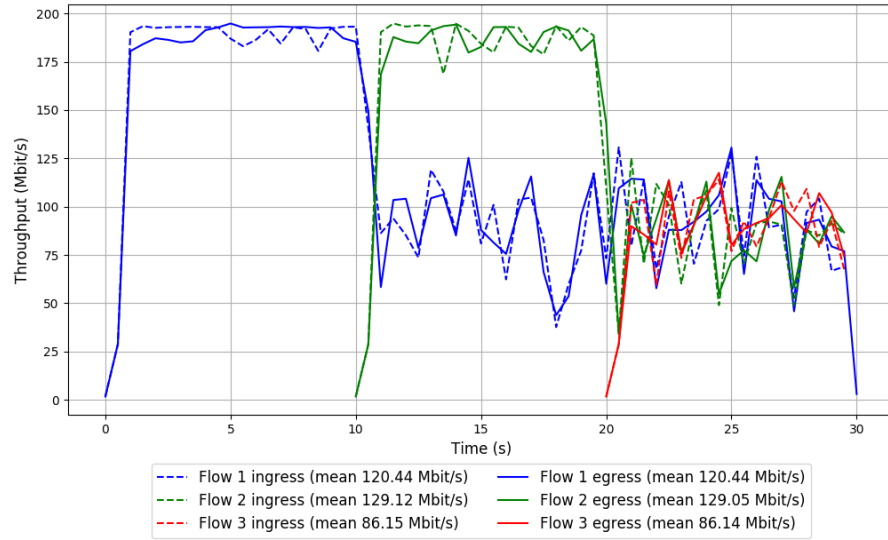
-- Flow 3:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 77.449 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-27 03:24:34

End at: 2018-01-27 03:25:04

Below is generated by plot.py at 2018-01-27 05:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.46 Mbit/s

95th percentile per-packet one-way delay: 92.957 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 156.20 Mbit/s

95th percentile per-packet one-way delay: 90.535 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.33 Mbit/s

95th percentile per-packet one-way delay: 94.497 ms

Loss rate: 0.00%

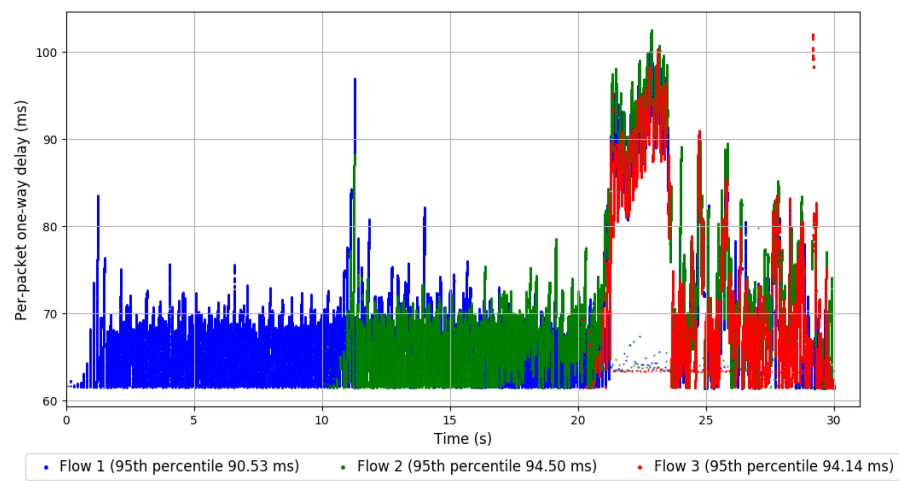
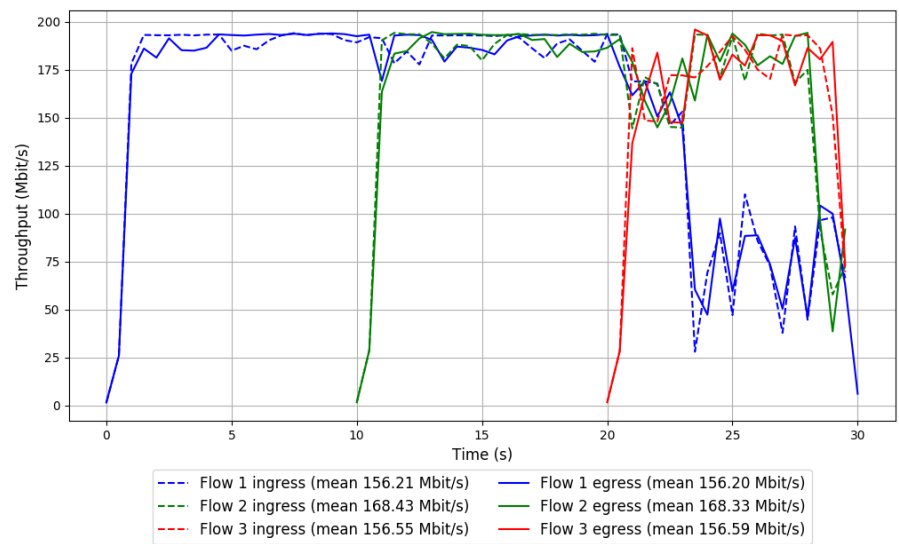
-- Flow 3:

Average throughput: 156.59 Mbit/s

95th percentile per-packet one-way delay: 94.139 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-27 03:39:06

End at: 2018-01-27 03:39:36

Below is generated by plot.py at 2018-01-27 05:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.12 Mbit/s

95th percentile per-packet one-way delay: 86.303 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 134.67 Mbit/s

95th percentile per-packet one-way delay: 80.369 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 149.19 Mbit/s

95th percentile per-packet one-way delay: 86.714 ms

Loss rate: 0.01%

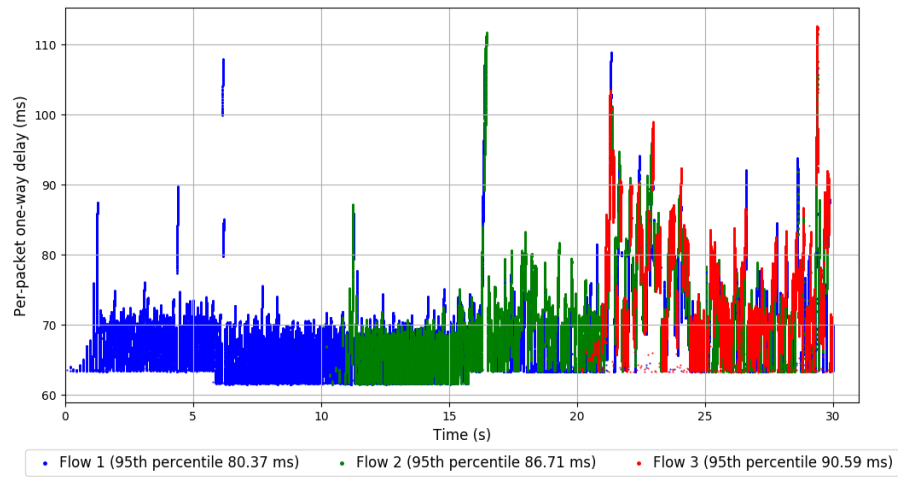
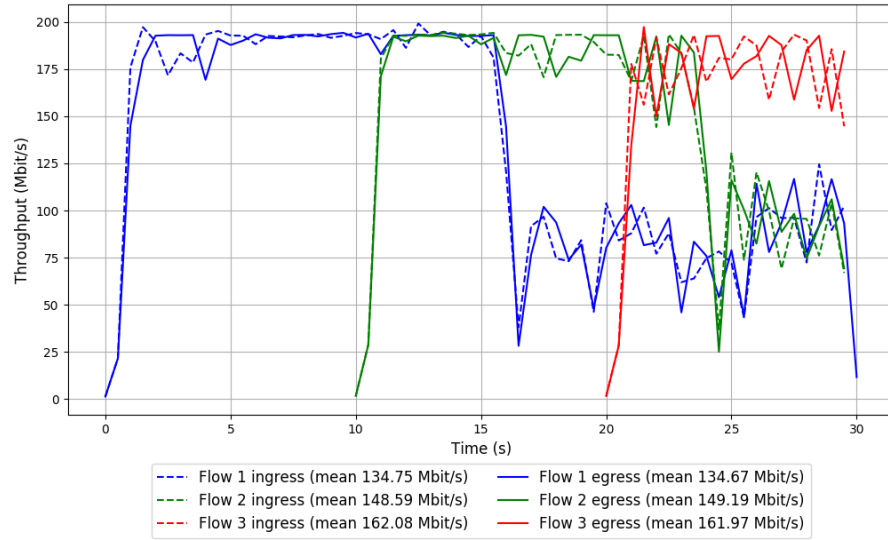
-- Flow 3:

Average throughput: 161.97 Mbit/s

95th percentile per-packet one-way delay: 90.591 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-27 03:53:49

End at: 2018-01-27 03:54:19

Below is generated by plot.py at 2018-01-27 05:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.73 Mbit/s

95th percentile per-packet one-way delay: 77.263 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 122.91 Mbit/s

95th percentile per-packet one-way delay: 74.953 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 76.036 ms

Loss rate: 0.00%

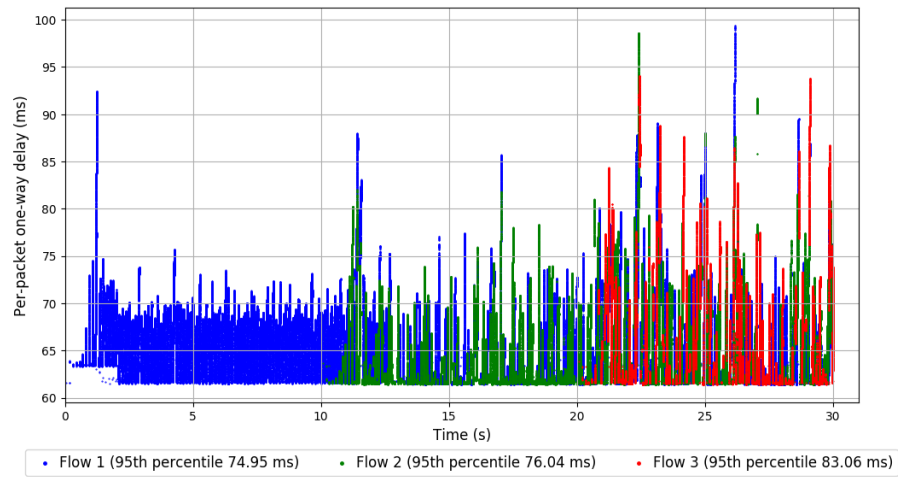
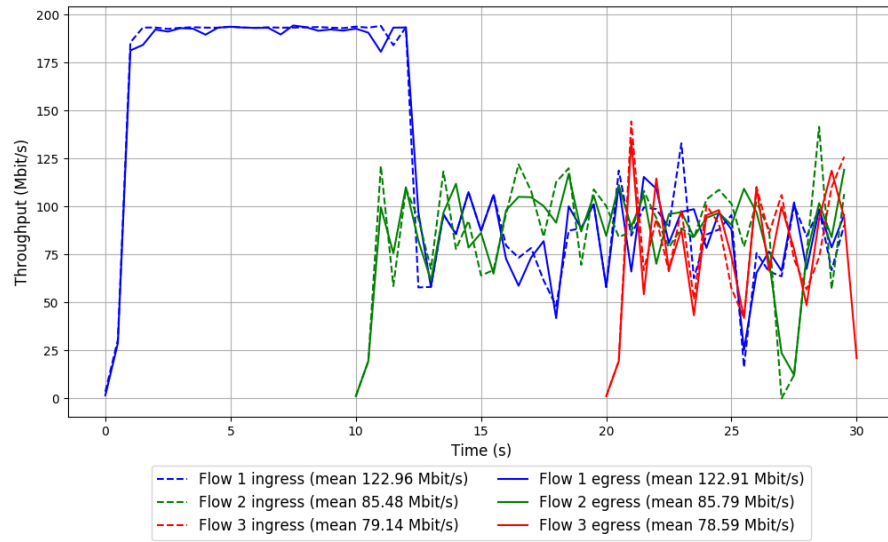
-- Flow 3:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 83.062 ms

Loss rate: 0.69%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-27 04:08:32

End at: 2018-01-27 04:09:02

Below is generated by plot.py at 2018-01-27 05:57:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.27 Mbit/s

95th percentile per-packet one-way delay: 79.847 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 159.60 Mbit/s

95th percentile per-packet one-way delay: 77.772 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.54 Mbit/s

95th percentile per-packet one-way delay: 80.128 ms

Loss rate: 0.00%

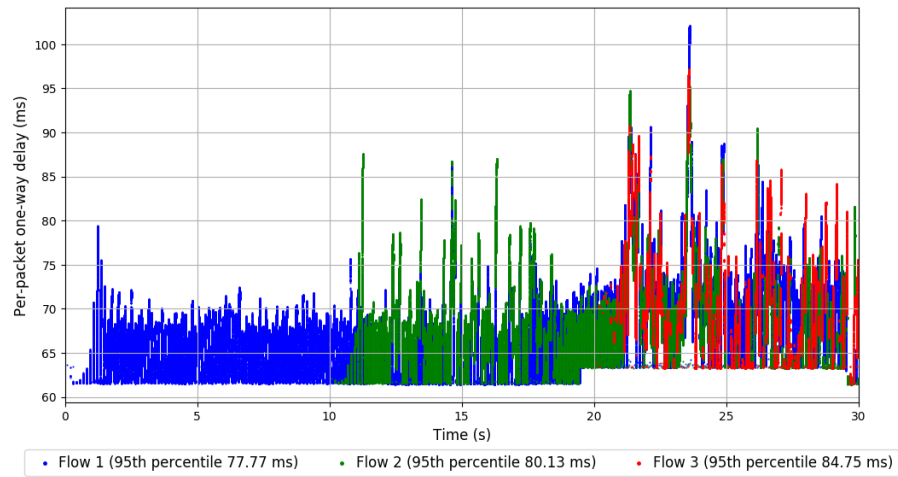
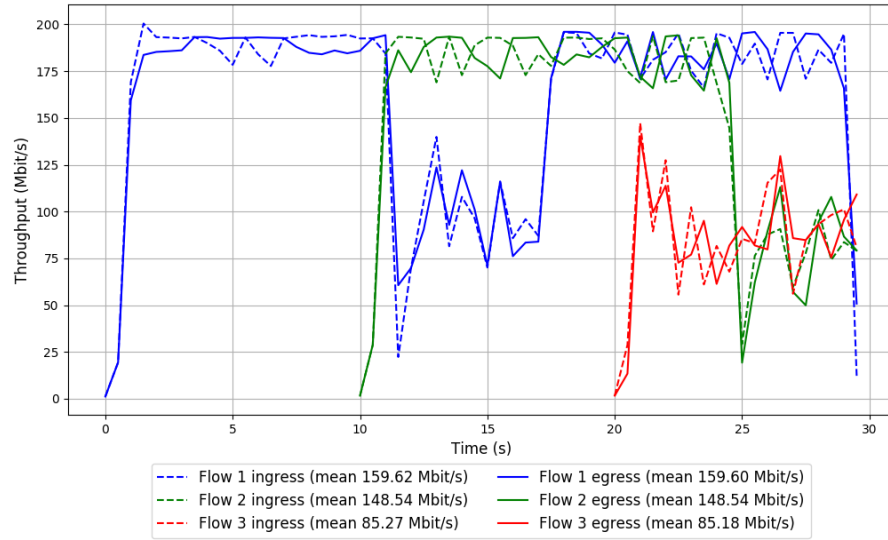
-- Flow 3:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 84.748 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-27 04:23:08

End at: 2018-01-27 04:23:38

Below is generated by plot.py at 2018-01-27 05:57:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.27 Mbit/s

95th percentile per-packet one-way delay: 80.984 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 106.48 Mbit/s

95th percentile per-packet one-way delay: 78.074 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 143.97 Mbit/s

95th percentile per-packet one-way delay: 81.187 ms

Loss rate: 0.04%

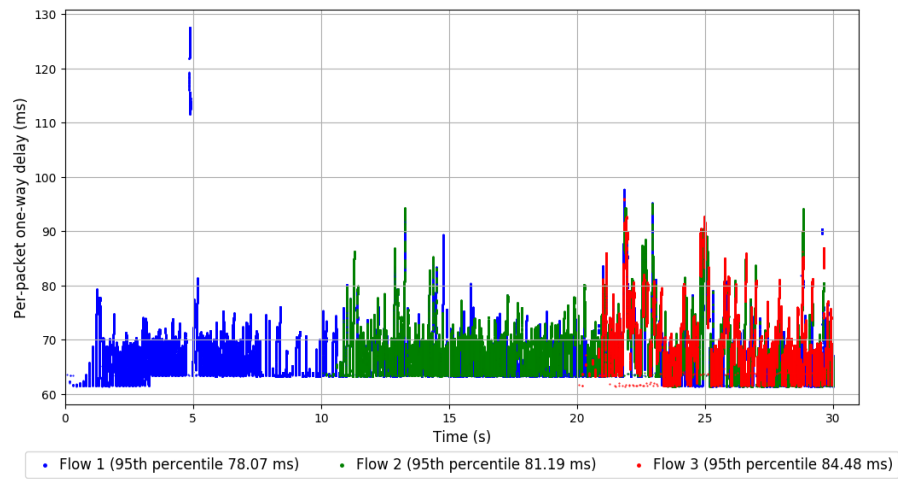
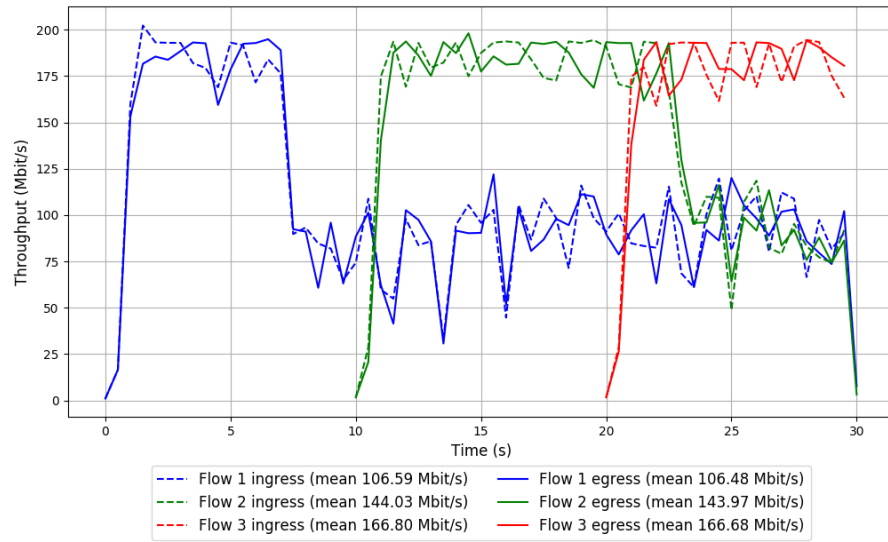
-- Flow 3:

Average throughput: 166.68 Mbit/s

95th percentile per-packet one-way delay: 84.479 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-27 02:09:55

End at: 2018-01-27 02:10:25

Below is generated by plot.py at 2018-01-27 05:57:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.91 Mbit/s

95th percentile per-packet one-way delay: 90.140 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 101.32 Mbit/s

95th percentile per-packet one-way delay: 76.981 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 119.93 Mbit/s

95th percentile per-packet one-way delay: 89.367 ms

Loss rate: 0.16%

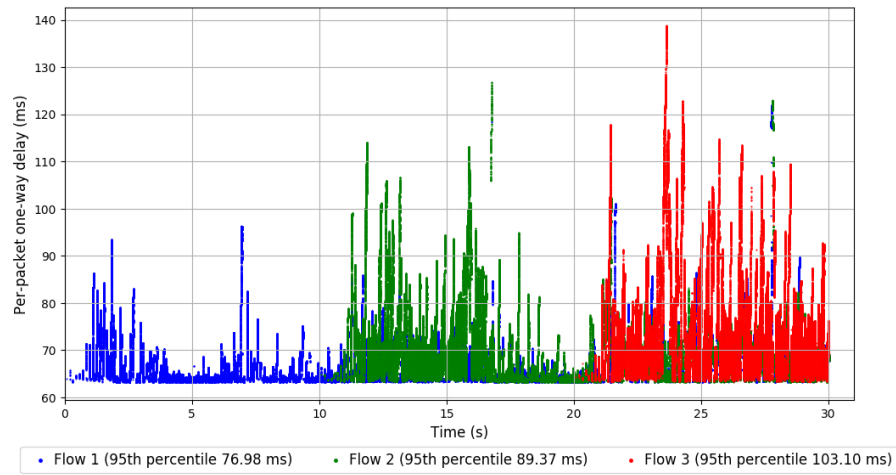
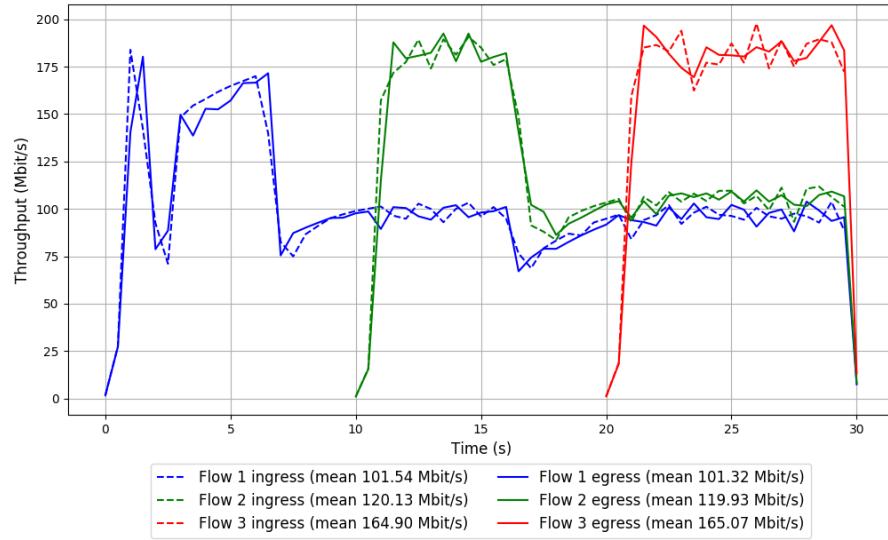
-- Flow 3:

Average throughput: 165.07 Mbit/s

95th percentile per-packet one-way delay: 103.104 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-27 02:24:03

End at: 2018-01-27 02:24:33

Below is generated by plot.py at 2018-01-27 05:57:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.29 Mbit/s

95th percentile per-packet one-way delay: 83.882 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 99.59 Mbit/s

95th percentile per-packet one-way delay: 86.713 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 80.13 Mbit/s

95th percentile per-packet one-way delay: 76.483 ms

Loss rate: 0.02%

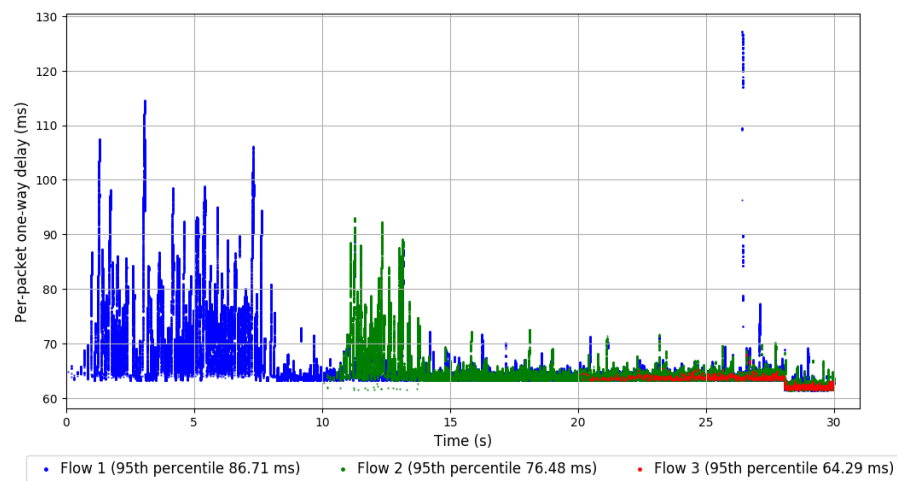
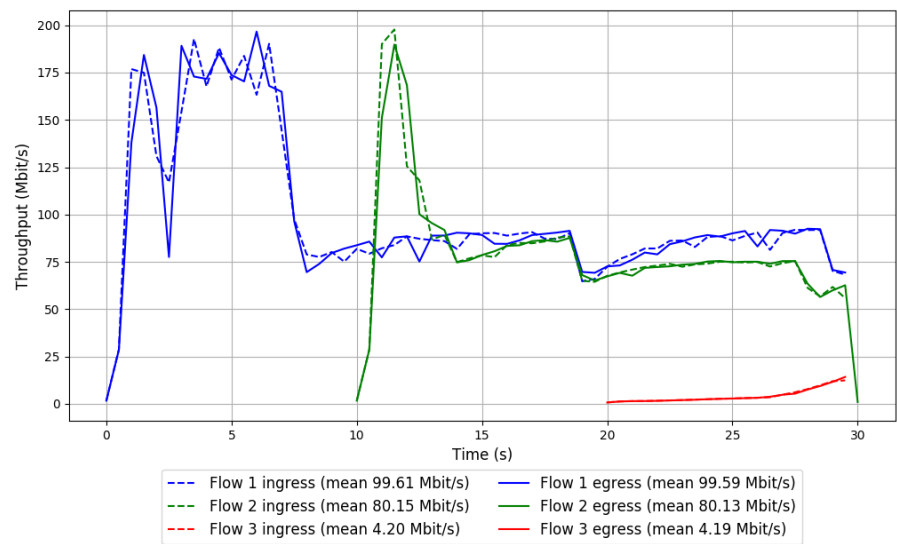
-- Flow 3:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 64.288 ms

Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-27 02:38:17

End at: 2018-01-27 02:38:47

Below is generated by plot.py at 2018-01-27 05:59:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.64 Mbit/s

95th percentile per-packet one-way delay: 103.556 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 173.33 Mbit/s

95th percentile per-packet one-way delay: 101.331 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 167.53 Mbit/s

95th percentile per-packet one-way delay: 104.471 ms

Loss rate: 0.00%

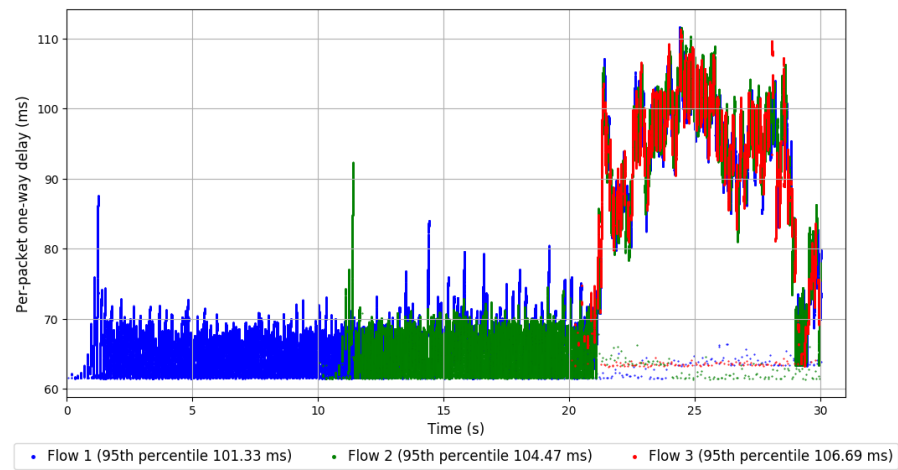
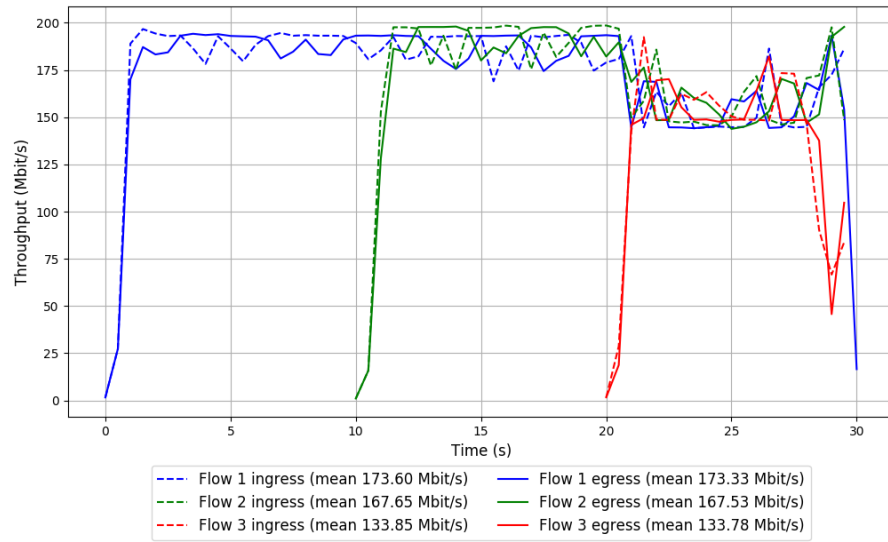
-- Flow 3:

Average throughput: 133.78 Mbit/s

95th percentile per-packet one-way delay: 106.695 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-27 02:53:08

End at: 2018-01-27 02:53:38

Below is generated by plot.py at 2018-01-27 05:59:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.82 Mbit/s

95th percentile per-packet one-way delay: 69.704 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.37 Mbit/s

95th percentile per-packet one-way delay: 67.393 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 67.321 ms

Loss rate: 0.01%

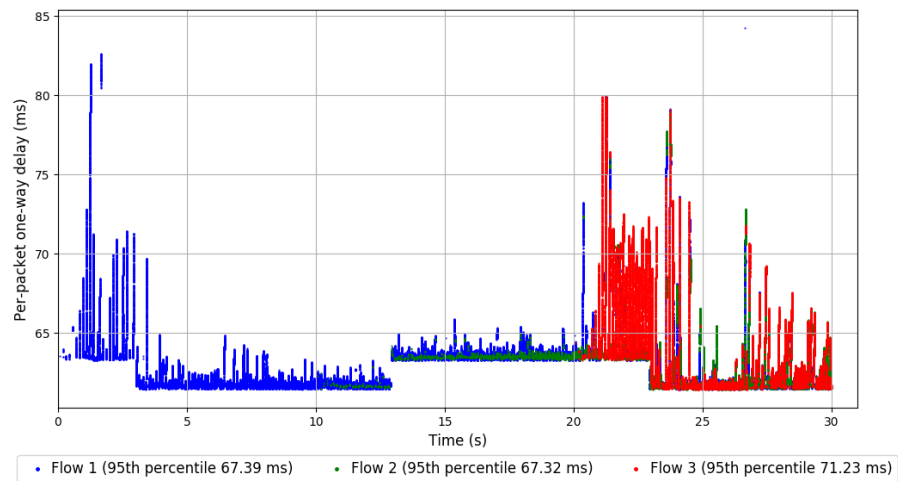
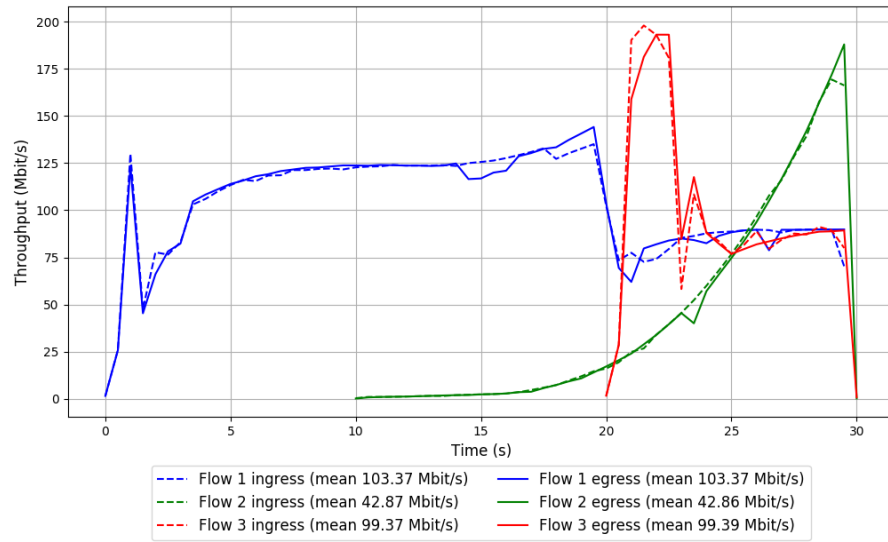
-- Flow 3:

Average throughput: 99.39 Mbit/s

95th percentile per-packet one-way delay: 71.227 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-27 03:07:36

End at: 2018-01-27 03:08:06

Below is generated by plot.py at 2018-01-27 05:59:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.13 Mbit/s

95th percentile per-packet one-way delay: 83.090 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.37 Mbit/s

95th percentile per-packet one-way delay: 81.029 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.18 Mbit/s

95th percentile per-packet one-way delay: 84.946 ms

Loss rate: 0.00%

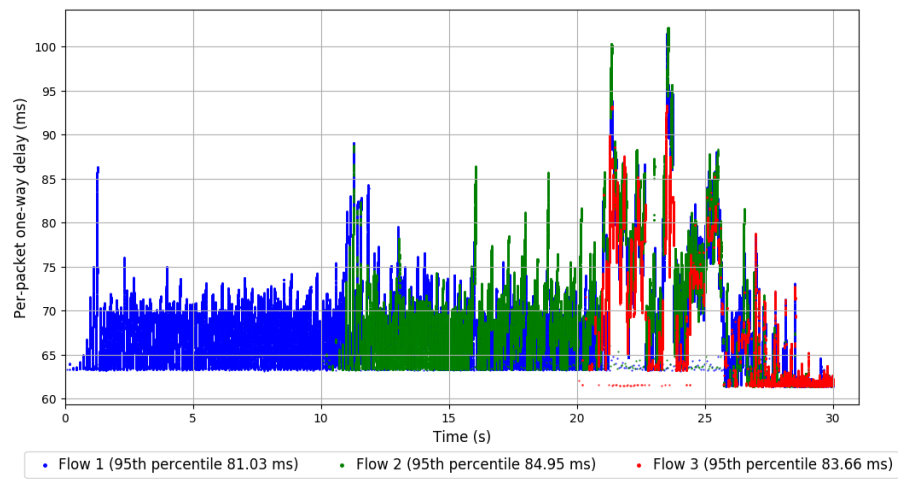
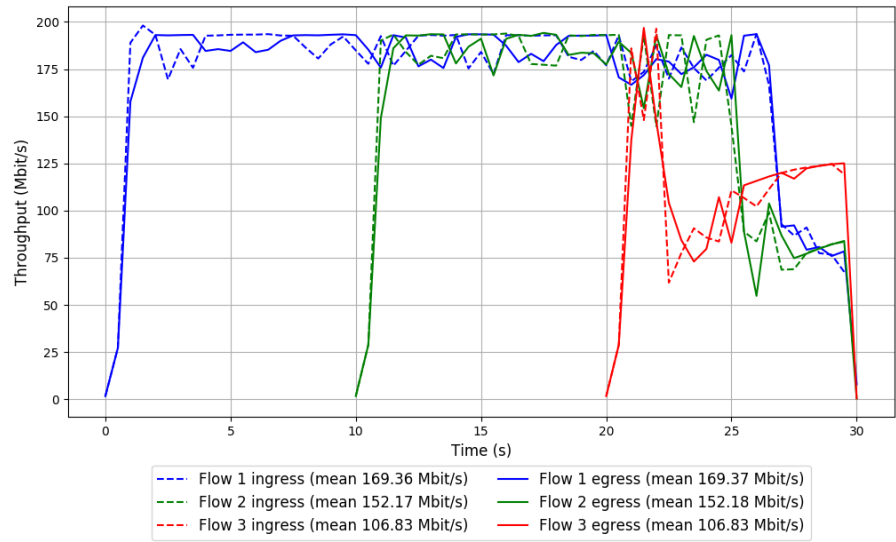
-- Flow 3:

Average throughput: 106.83 Mbit/s

95th percentile per-packet one-way delay: 83.660 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-27 03:22:25

End at: 2018-01-27 03:22:55

Below is generated by plot.py at 2018-01-27 06:01:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.69 Mbit/s

95th percentile per-packet one-way delay: 101.409 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 173.76 Mbit/s

95th percentile per-packet one-way delay: 99.542 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.26 Mbit/s

95th percentile per-packet one-way delay: 100.784 ms

Loss rate: 0.00%

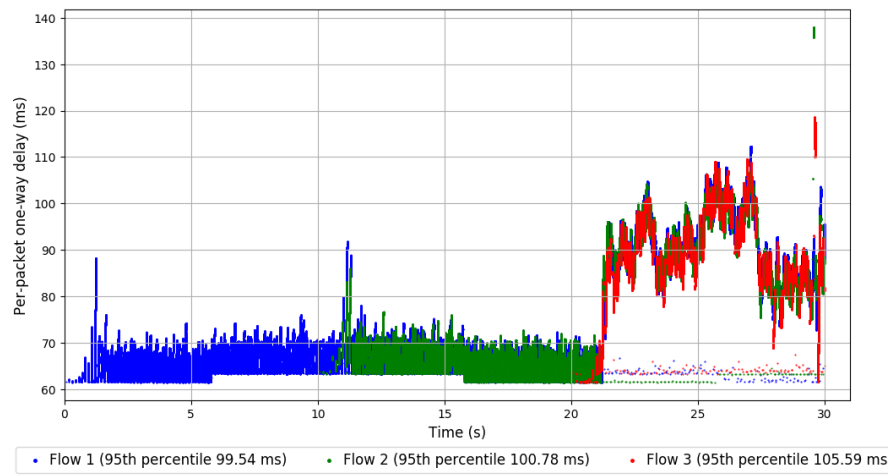
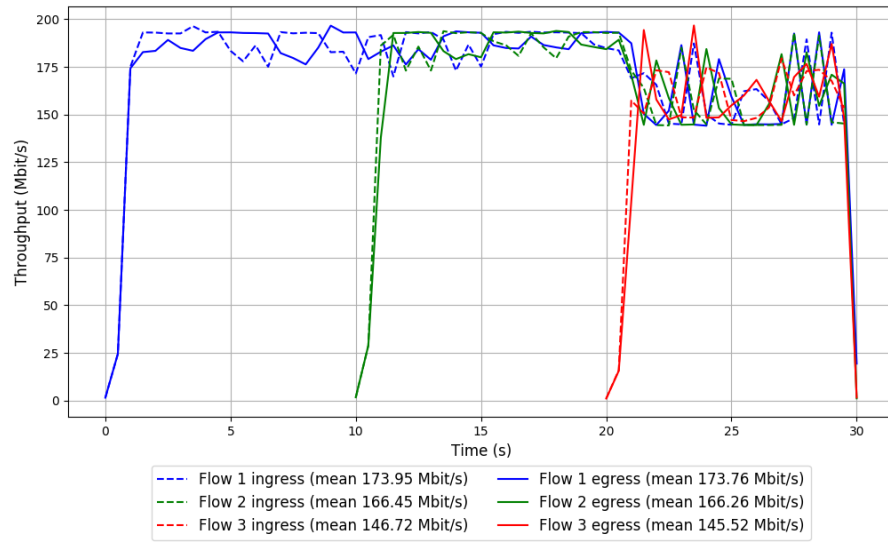
-- Flow 3:

Average throughput: 145.52 Mbit/s

95th percentile per-packet one-way delay: 105.594 ms

Loss rate: 0.79%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-27 03:37:00

End at: 2018-01-27 03:37:30

Below is generated by plot.py at 2018-01-27 06:01:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.07 Mbit/s

95th percentile per-packet one-way delay: 88.958 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 155.06 Mbit/s

95th percentile per-packet one-way delay: 82.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 173.58 Mbit/s

95th percentile per-packet one-way delay: 88.408 ms

Loss rate: 0.05%

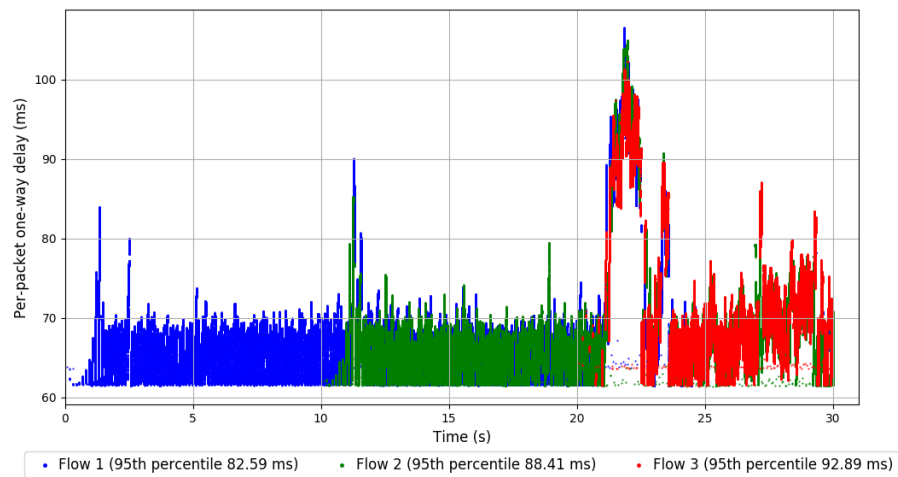
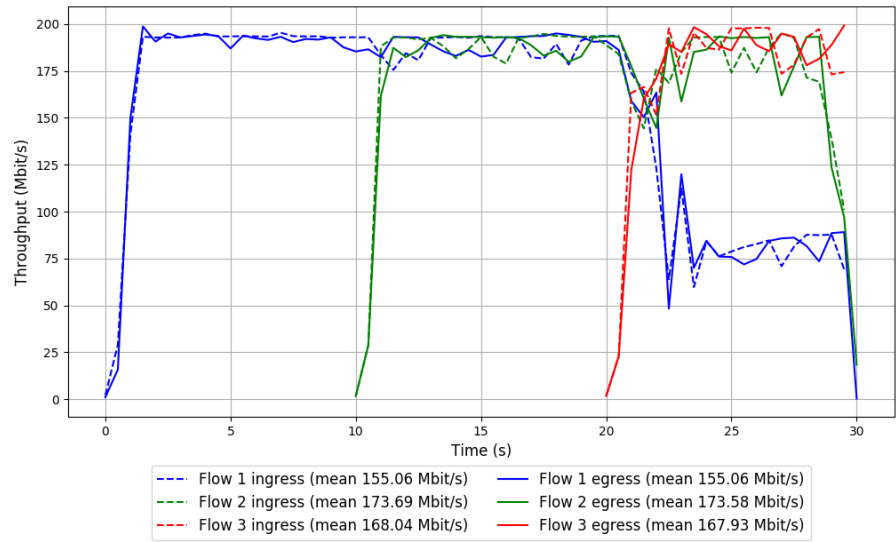
-- Flow 3:

Average throughput: 167.93 Mbit/s

95th percentile per-packet one-way delay: 92.888 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-27 03:51:41

End at: 2018-01-27 03:52:11

Below is generated by plot.py at 2018-01-27 06:02:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.71 Mbit/s

95th percentile per-packet one-way delay: 88.841 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 161.45 Mbit/s

95th percentile per-packet one-way delay: 87.766 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.28 Mbit/s

95th percentile per-packet one-way delay: 89.018 ms

Loss rate: 0.00%

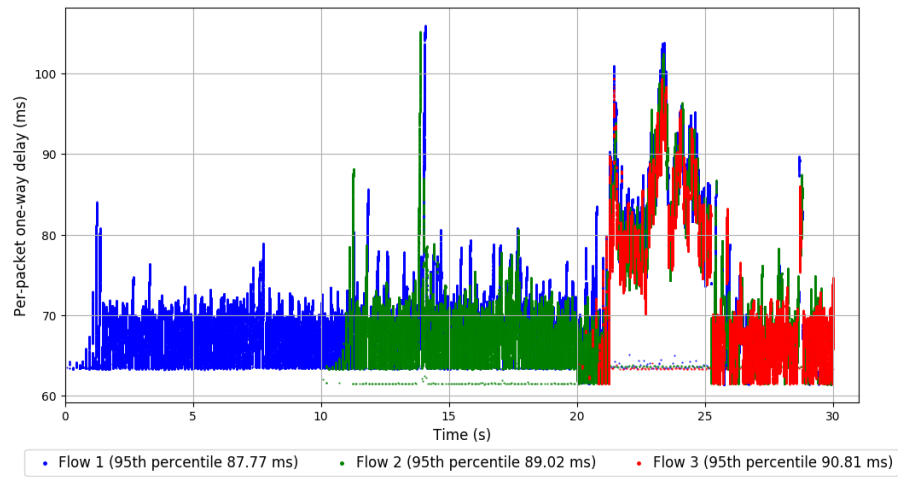
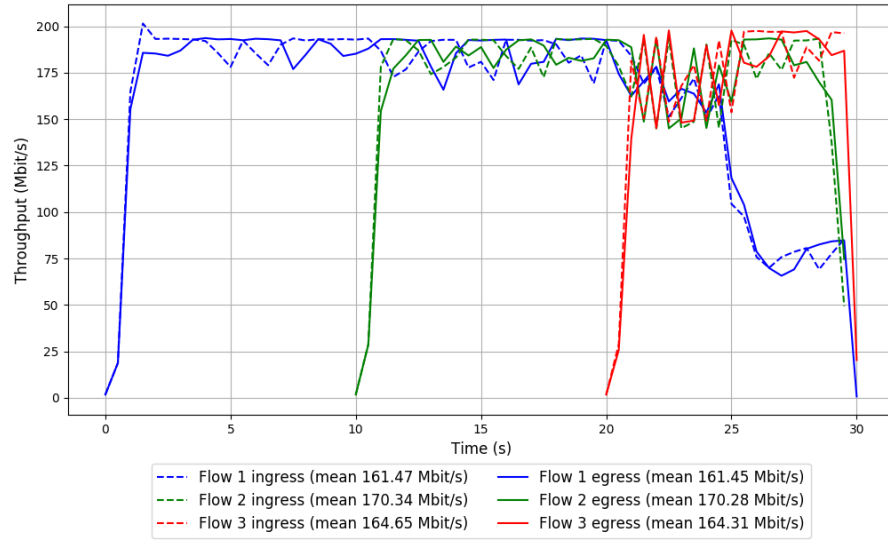
-- Flow 3:

Average throughput: 164.31 Mbit/s

95th percentile per-packet one-way delay: 90.805 ms

Loss rate: 0.18%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-27 04:06:24

End at: 2018-01-27 04:06:54

Below is generated by plot.py at 2018-01-27 06:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.77 Mbit/s

95th percentile per-packet one-way delay: 103.786 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 173.43 Mbit/s

95th percentile per-packet one-way delay: 101.761 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 165.23 Mbit/s

95th percentile per-packet one-way delay: 105.040 ms

Loss rate: 0.00%

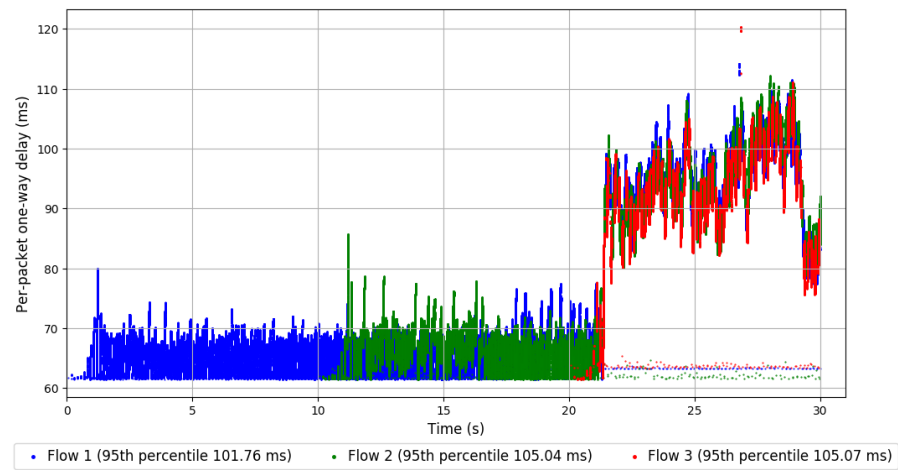
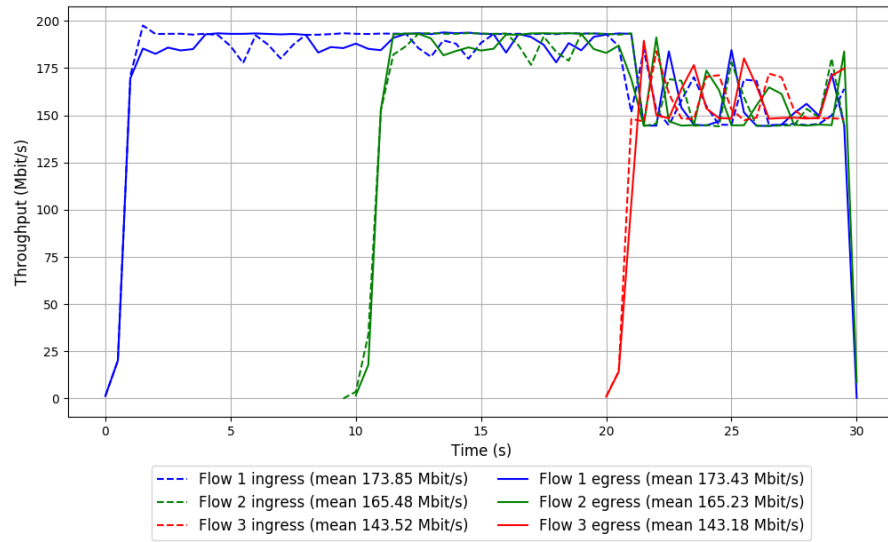
-- Flow 3:

Average throughput: 143.18 Mbit/s

95th percentile per-packet one-way delay: 105.074 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-27 04:21:07

End at: 2018-01-27 04:21:37

Below is generated by plot.py at 2018-01-27 06:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.90 Mbit/s

95th percentile per-packet one-way delay: 75.078 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.36 Mbit/s

95th percentile per-packet one-way delay: 74.464 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 74.085 ms

Loss rate: 0.00%

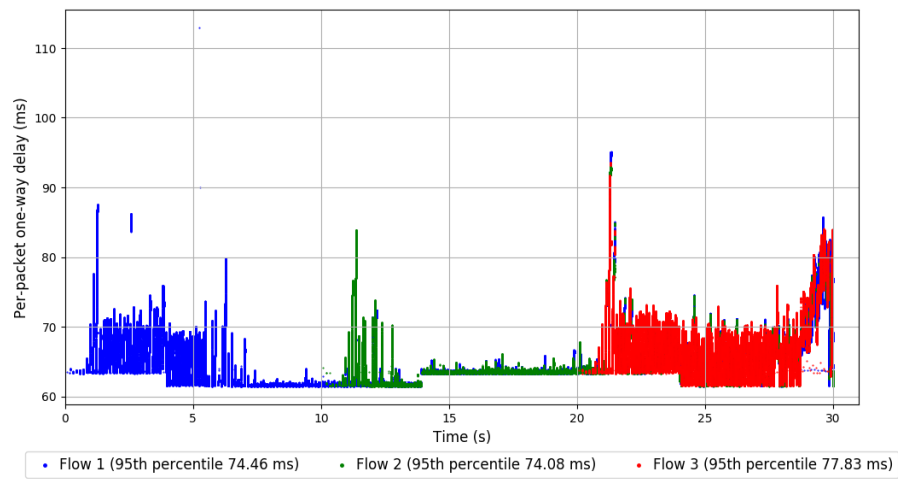
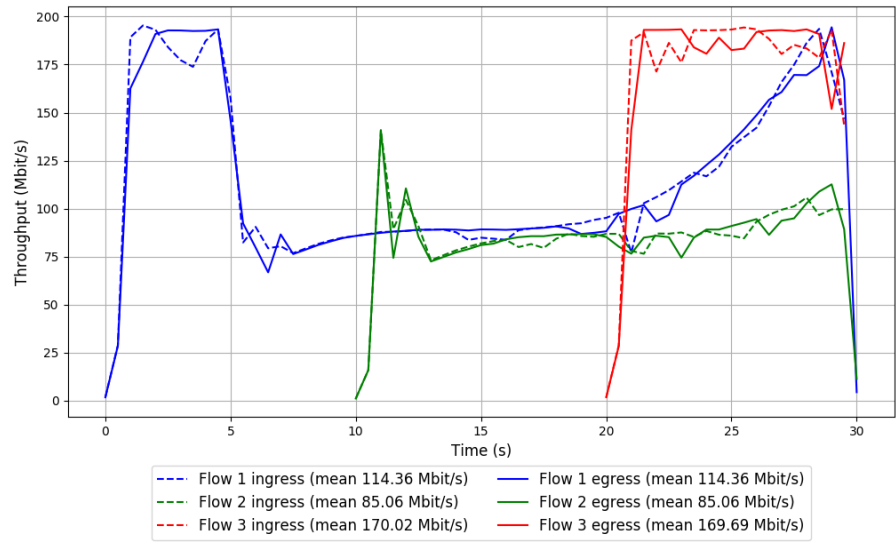
-- Flow 3:

Average throughput: 169.69 Mbit/s

95th percentile per-packet one-way delay: 77.833 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

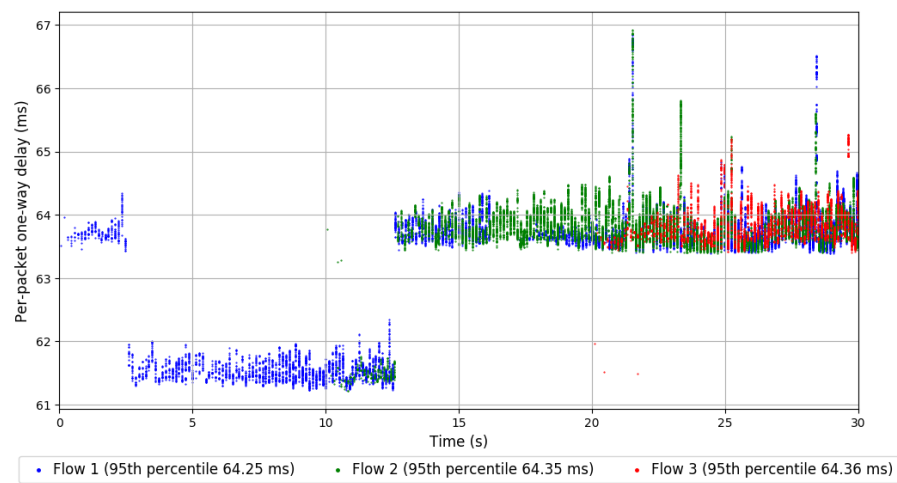
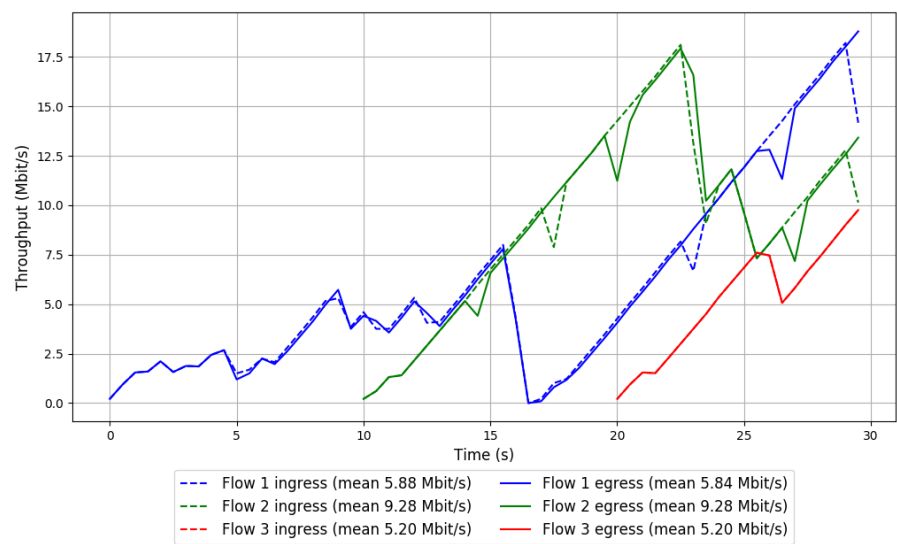


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-27 02:00:19
End at: 2018-01-27 02:00:49

# Below is generated by plot.py at 2018-01-27 06:02:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 64.314 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 64.251 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 64.347 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 64.364 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

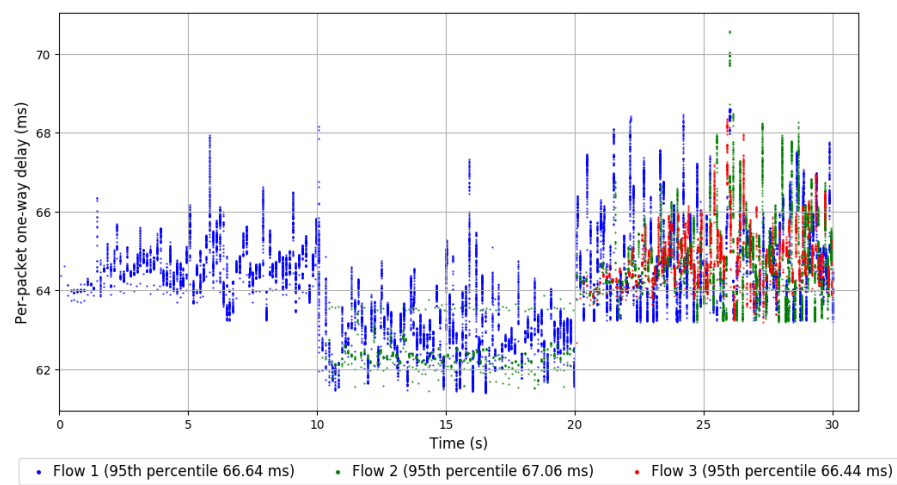
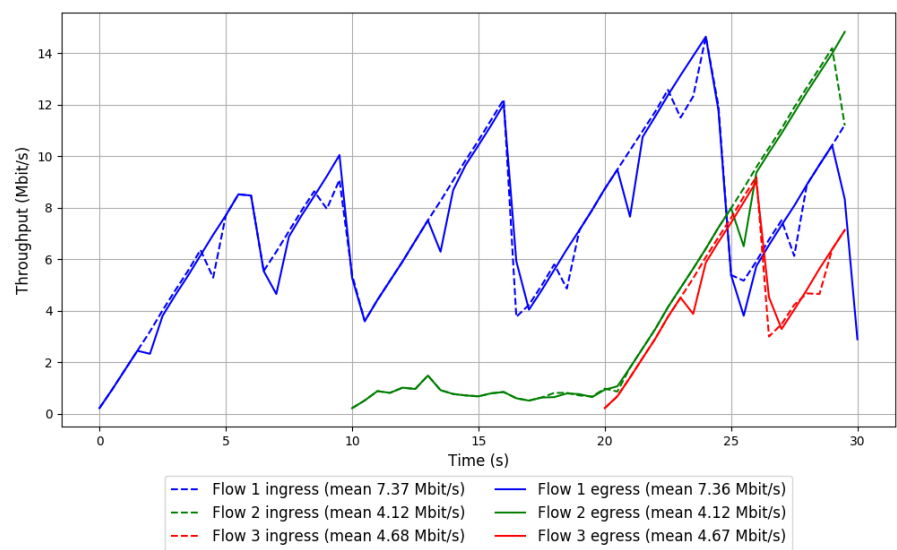


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-27 02:14:31
End at: 2018-01-27 02:15:01

# Below is generated by plot.py at 2018-01-27 06:02:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 66.731 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 66.642 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 67.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 66.441 ms
Loss rate: 0.10%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-27 02:28:35

End at: 2018-01-27 02:29:05

Below is generated by plot.py at 2018-01-27 06:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.68 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.81 Mbit/s

95th percentile per-packet one-way delay: 64.104 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 64.221 ms

Loss rate: 0.00%

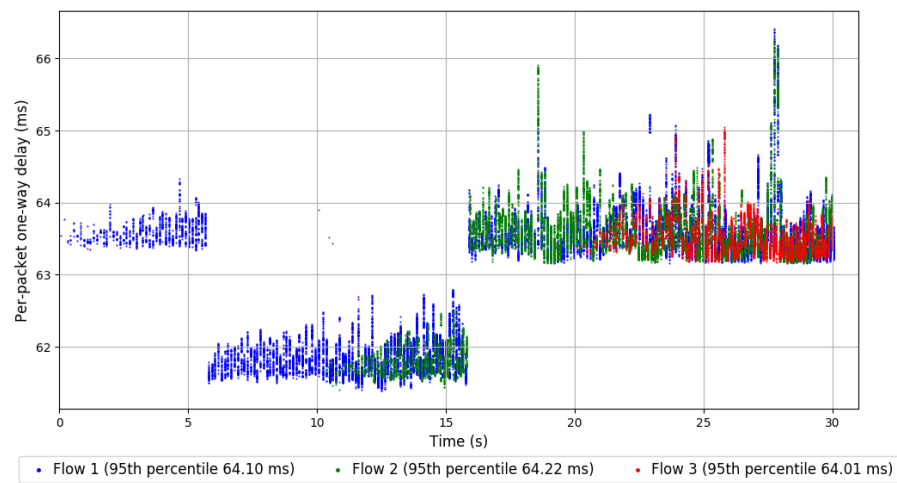
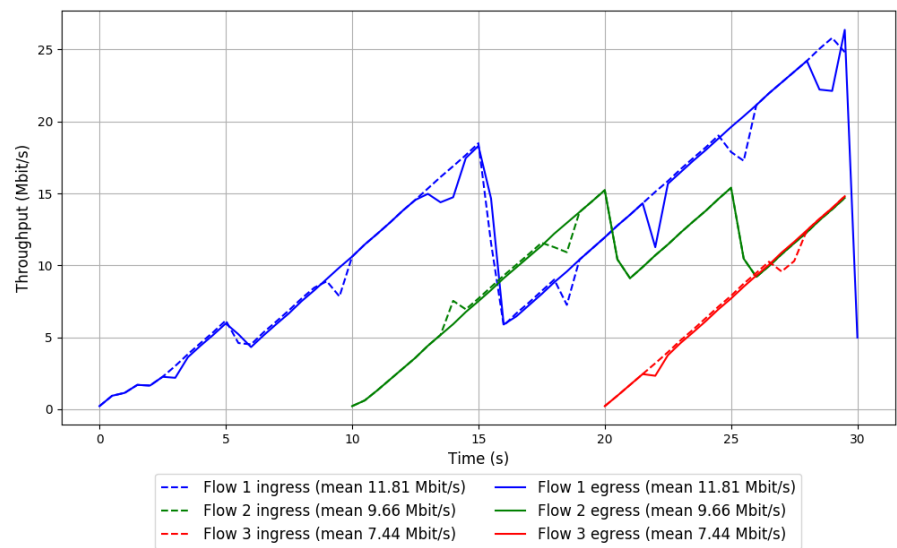
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 64.009 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

End at: 2018-01-27 02:43:43

Below is generated by plot.py at 2018-01-27 06:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.96 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 64.171 ms

Loss rate: 0.01%

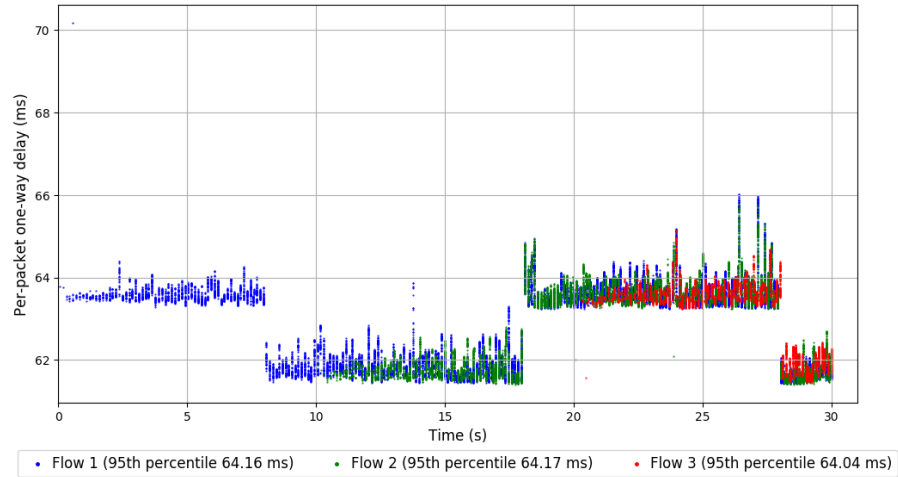
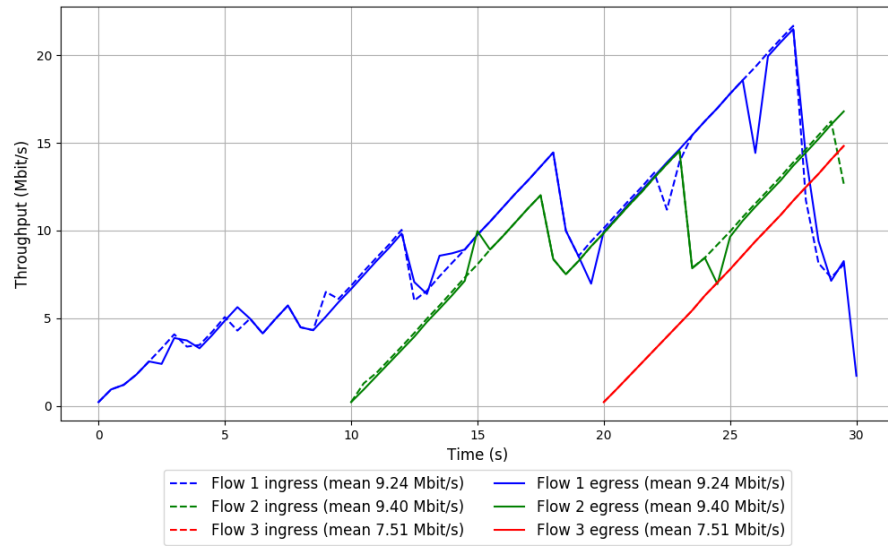
-- Flow 3:

Average throughput: 7.51 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-27 02:57:52

End at: 2018-01-27 02:58:22

Below is generated by plot.py at 2018-01-27 06:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.47 Mbit/s

95th percentile per-packet one-way delay: 62.387 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.65 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 62.261 ms

Loss rate: 0.00%

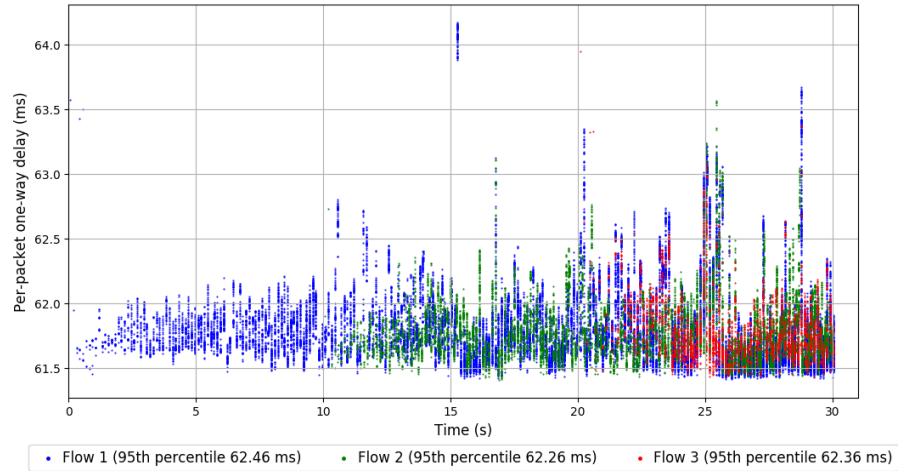
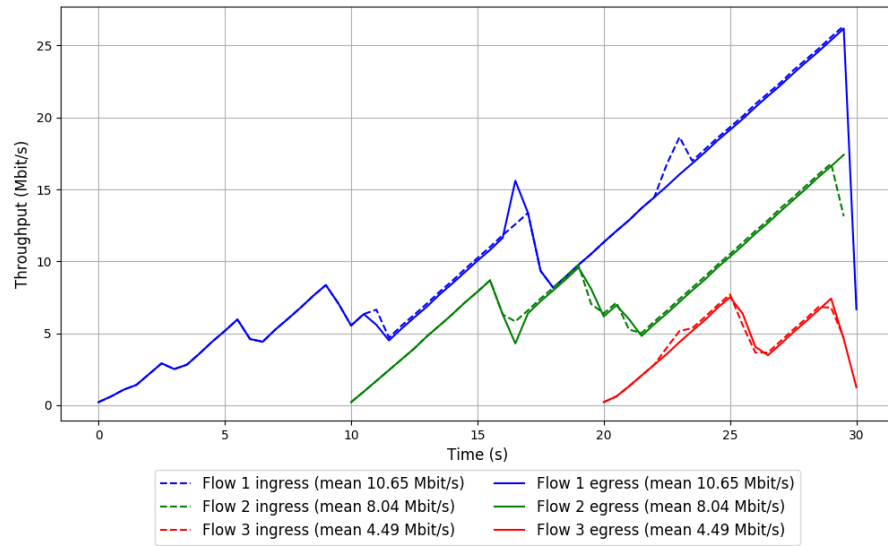
-- Flow 3:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 62.361 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-27 03:12:30

End at: 2018-01-27 03:13:00

Below is generated by plot.py at 2018-01-27 06:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 62.484 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 62.491 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 62.573 ms

Loss rate: 0.00%

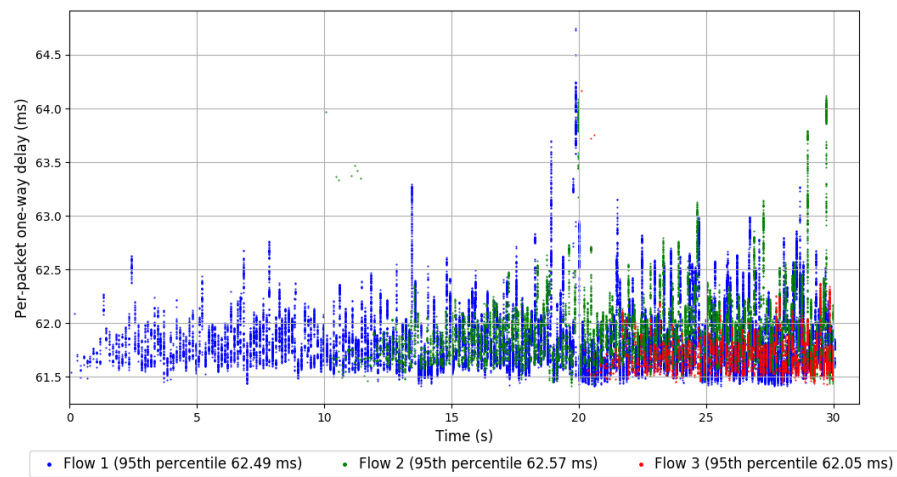
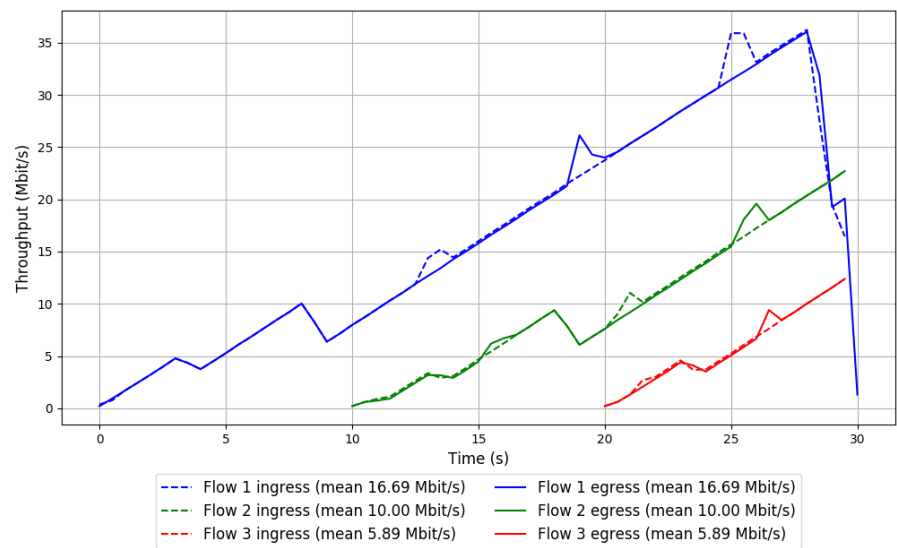
-- Flow 3:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 62.050 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-27 03:27:16

End at: 2018-01-27 03:27:47

Below is generated by plot.py at 2018-01-27 06:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.02 Mbit/s

95th percentile per-packet one-way delay: 64.030 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 63.950 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 64.130 ms

Loss rate: 0.00%

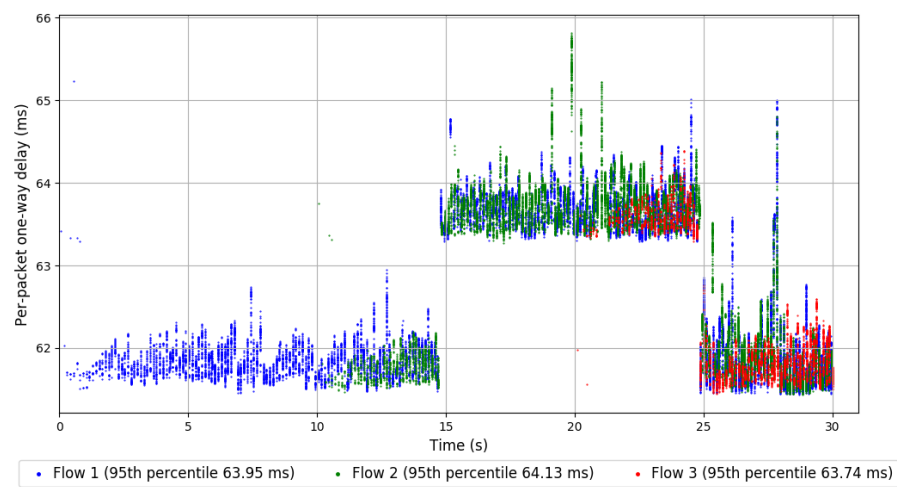
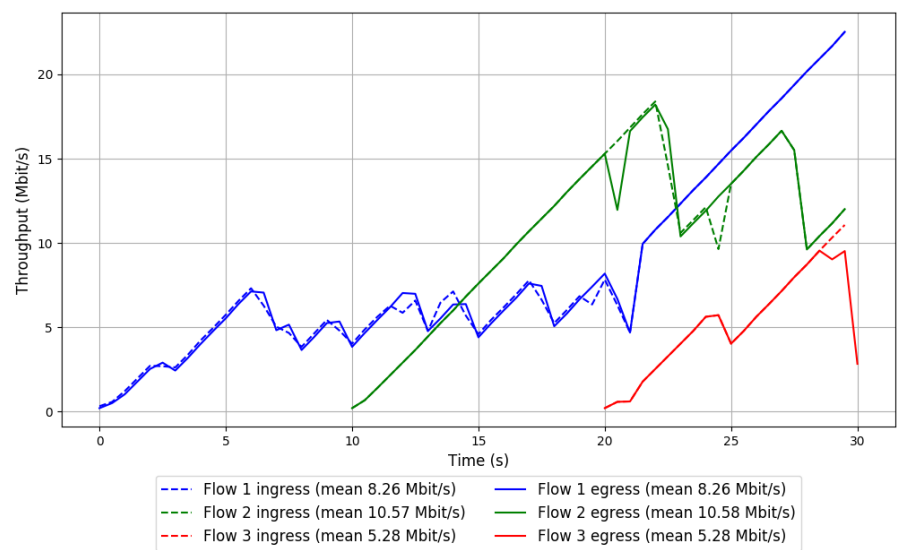
-- Flow 3:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 63.741 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-27 03:41:52

End at: 2018-01-27 03:42:22

Below is generated by plot.py at 2018-01-27 06:02:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 62.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 62.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 62.259 ms

Loss rate: 0.00%

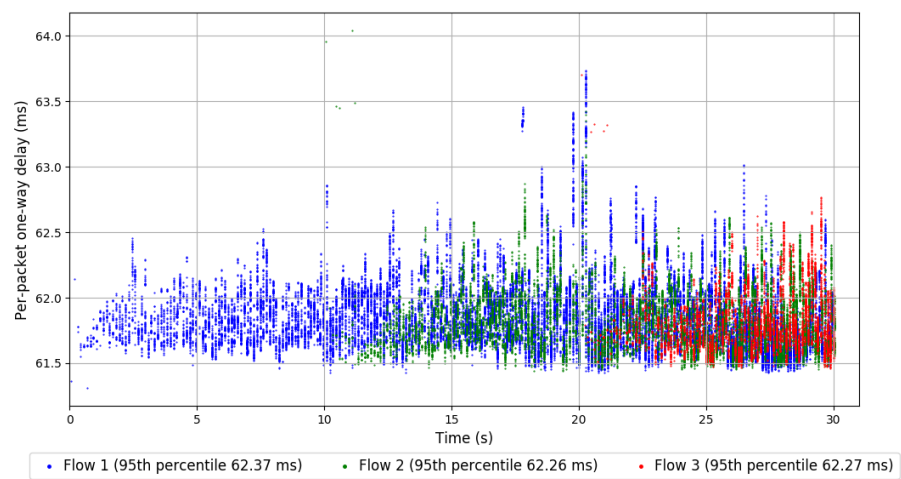
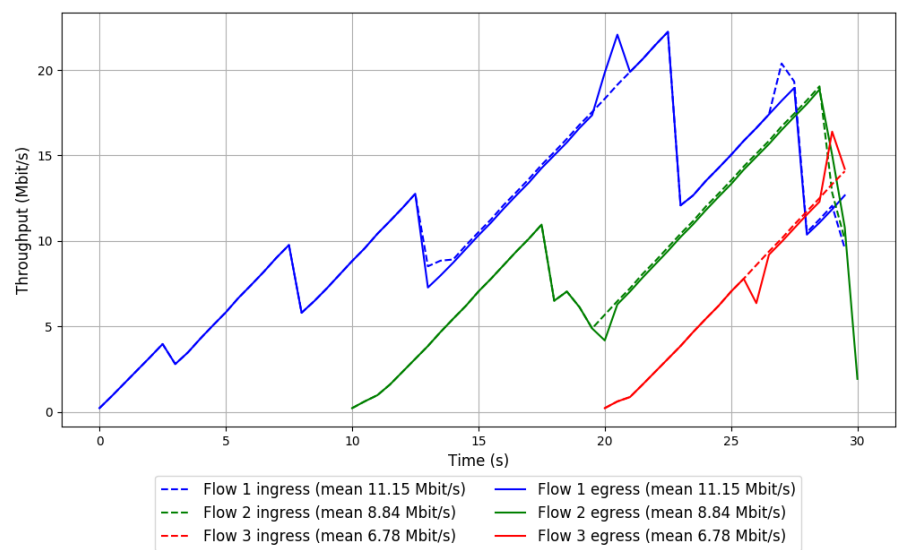
-- Flow 3:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 62.266 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-27 03:56:29

End at: 2018-01-27 03:56:59

Below is generated by plot.py at 2018-01-27 06:02:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.14 Mbit/s

95th percentile per-packet one-way delay: 63.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.55 Mbit/s

95th percentile per-packet one-way delay: 63.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 62.712 ms

Loss rate: 0.00%

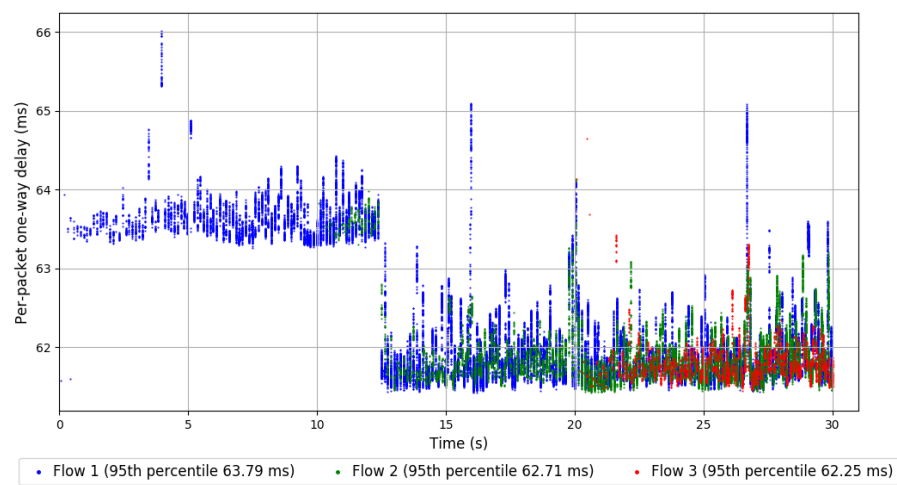
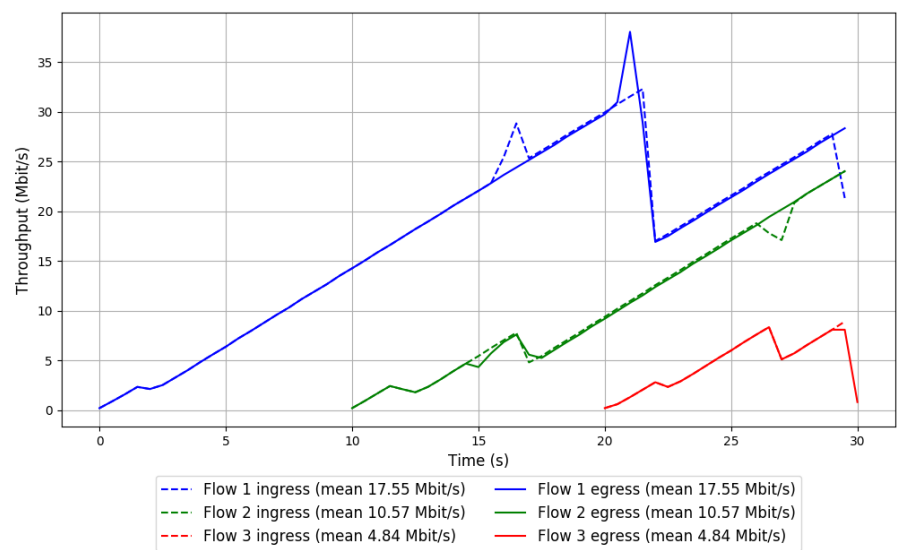
-- Flow 3:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 62.253 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-27 04:11:16

End at: 2018-01-27 04:11:46

Below is generated by plot.py at 2018-01-27 06:02:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.17 Mbit/s

95th percentile per-packet one-way delay: 64.110 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 64.141 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 8.66 Mbit/s

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

Loss rate: 0.05%

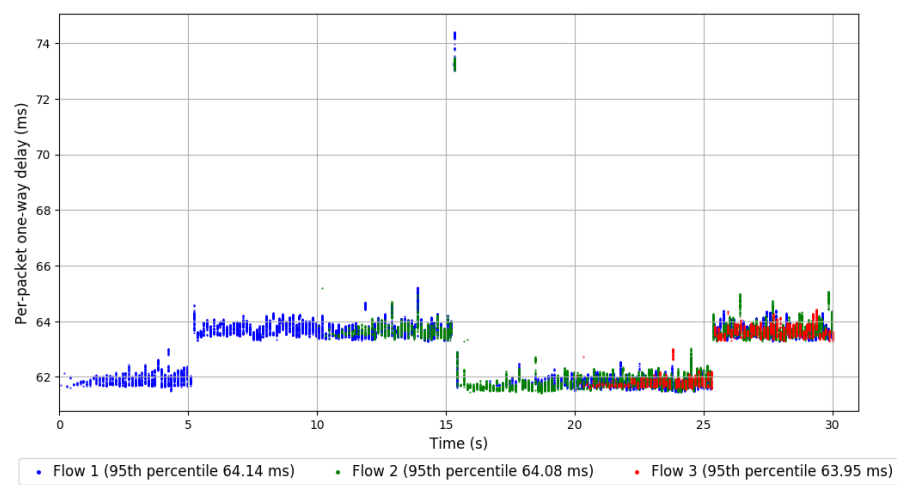
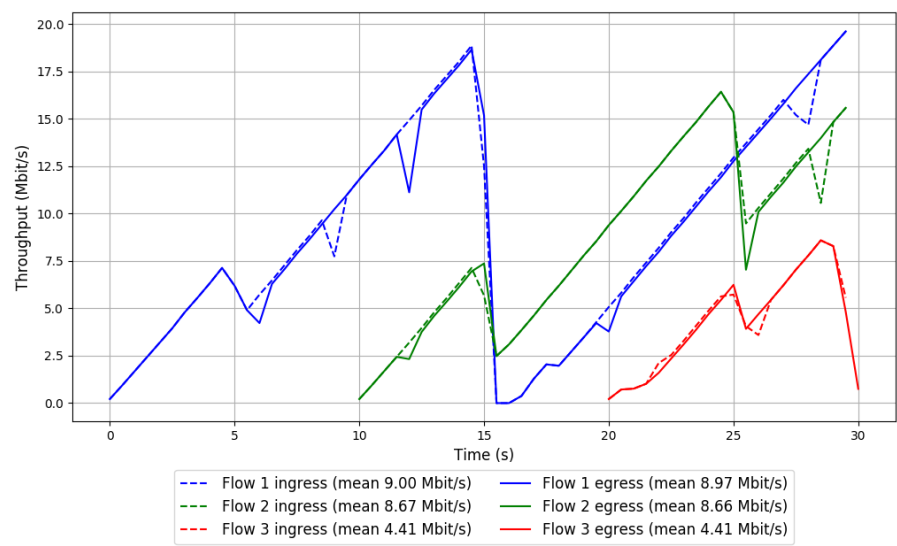
-- Flow 3:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

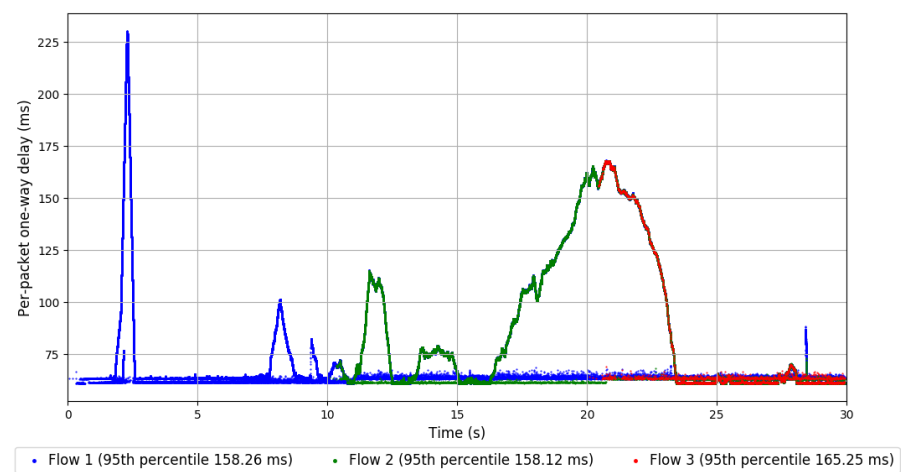
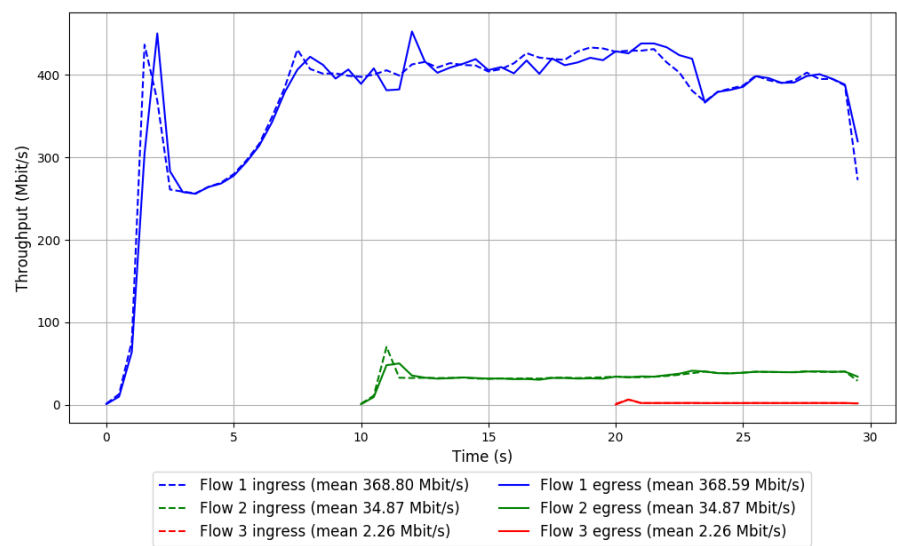


```
Run 1: Statistics of PCC

Start at: 2018-01-27 02:01:00
End at: 2018-01-27 02:01:30

# Below is generated by plot.py at 2018-01-27 06:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.51 Mbit/s
95th percentile per-packet one-way delay: 158.292 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 368.59 Mbit/s
95th percentile per-packet one-way delay: 158.258 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 158.125 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 165.250 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link

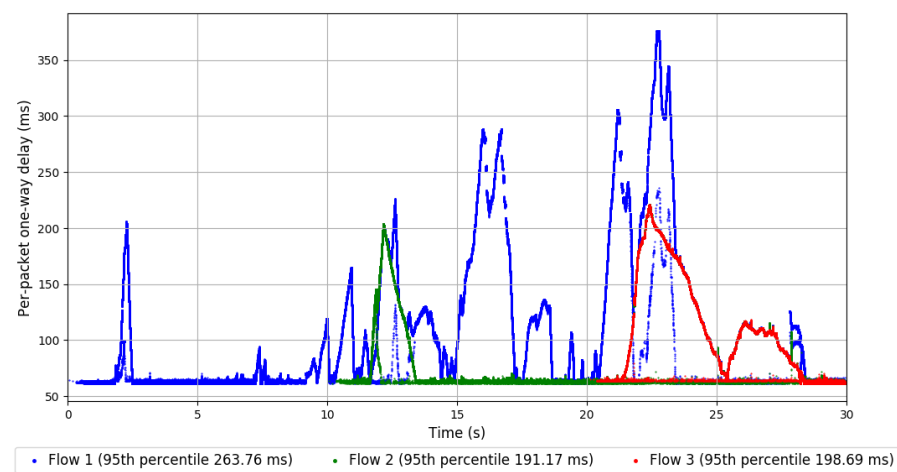
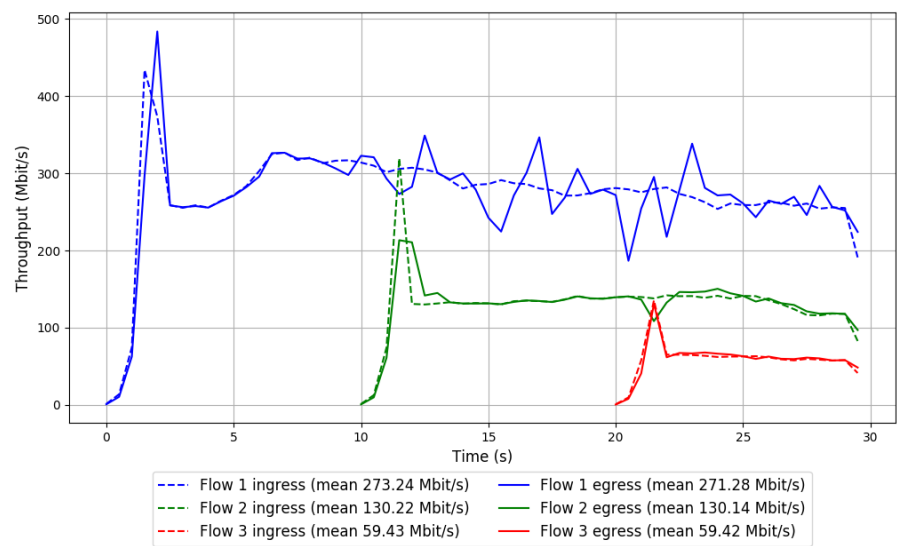


```
Run 2: Statistics of PCC

Start at: 2018-01-27 02:15:13
End at: 2018-01-27 02:15:43

# Below is generated by plot.py at 2018-01-27 06:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.30 Mbit/s
95th percentile per-packet one-way delay: 234.975 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 271.28 Mbit/s
95th percentile per-packet one-way delay: 263.763 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 130.14 Mbit/s
95th percentile per-packet one-way delay: 191.167 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 59.42 Mbit/s
95th percentile per-packet one-way delay: 198.695 ms
Loss rate: 0.05%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-27 02:29:18

End at: 2018-01-27 02:29:48

Below is generated by plot.py at 2018-01-27 06:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.98 Mbit/s

95th percentile per-packet one-way delay: 210.035 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 417.88 Mbit/s

95th percentile per-packet one-way delay: 210.112 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 203.151 ms

Loss rate: 0.37%

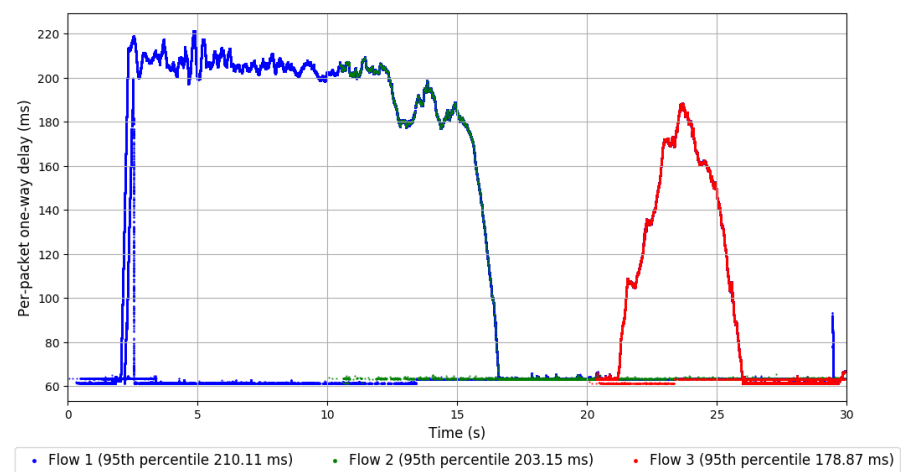
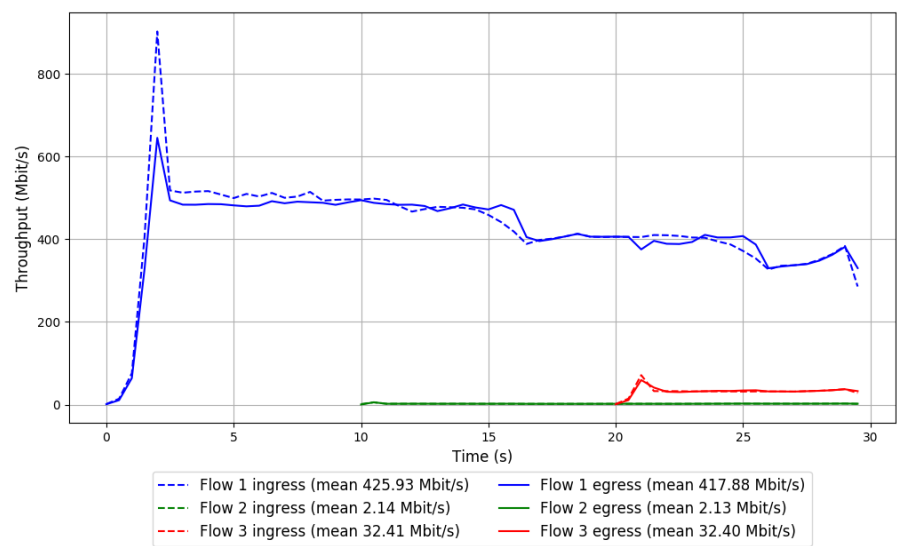
-- Flow 3:

Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 178.870 ms

Loss rate: 0.05%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-27 02:43:55

End at: 2018-01-27 02:44:25

Below is generated by plot.py at 2018-01-27 06:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.52 Mbit/s

95th percentile per-packet one-way delay: 142.373 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 360.15 Mbit/s

95th percentile per-packet one-way delay: 142.748 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 143.308 ms

Loss rate: 0.22%

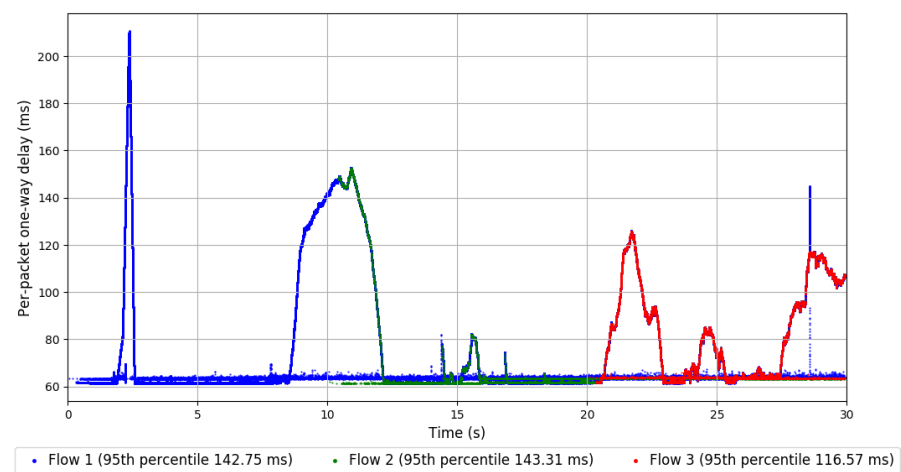
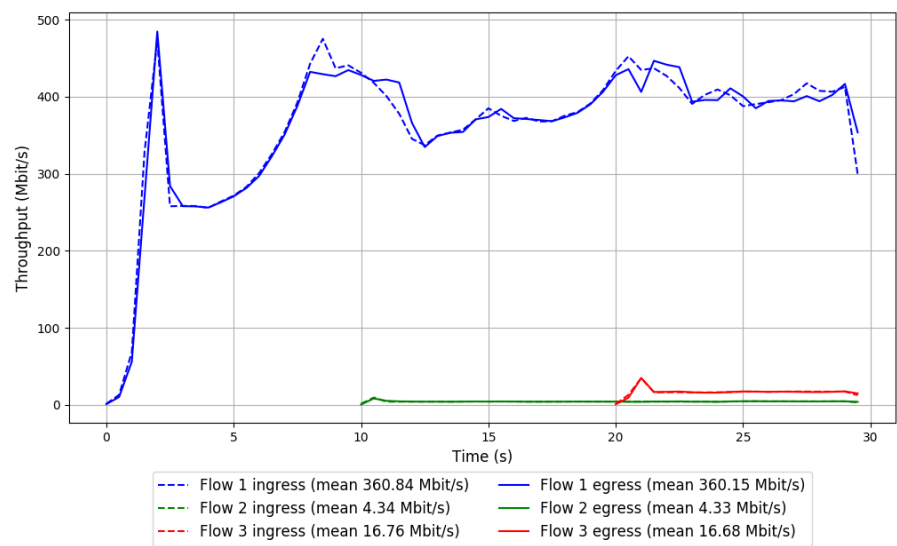
-- Flow 3:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 116.573 ms

Loss rate: 0.44%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-27 02:58:34

End at: 2018-01-27 02:59:04

Below is generated by plot.py at 2018-01-27 06:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.66 Mbit/s

95th percentile per-packet one-way delay: 235.148 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 298.20 Mbit/s

95th percentile per-packet one-way delay: 234.777 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 123.18 Mbit/s

95th percentile per-packet one-way delay: 235.559 ms

Loss rate: 2.10%

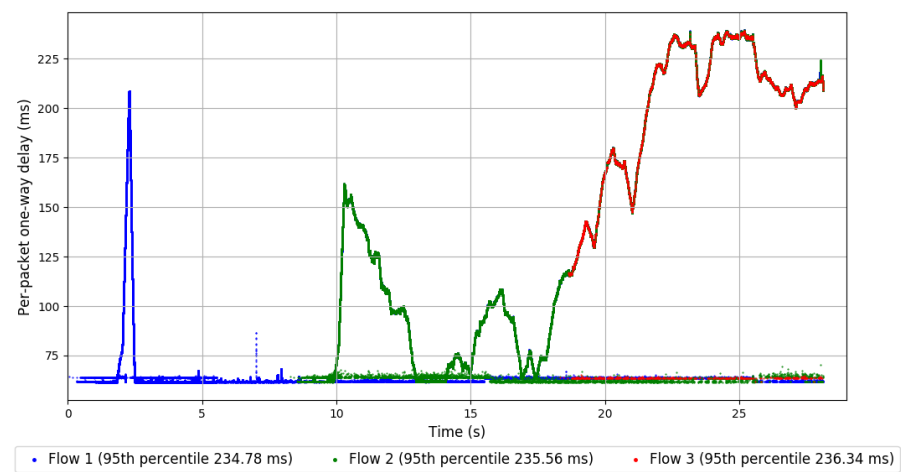
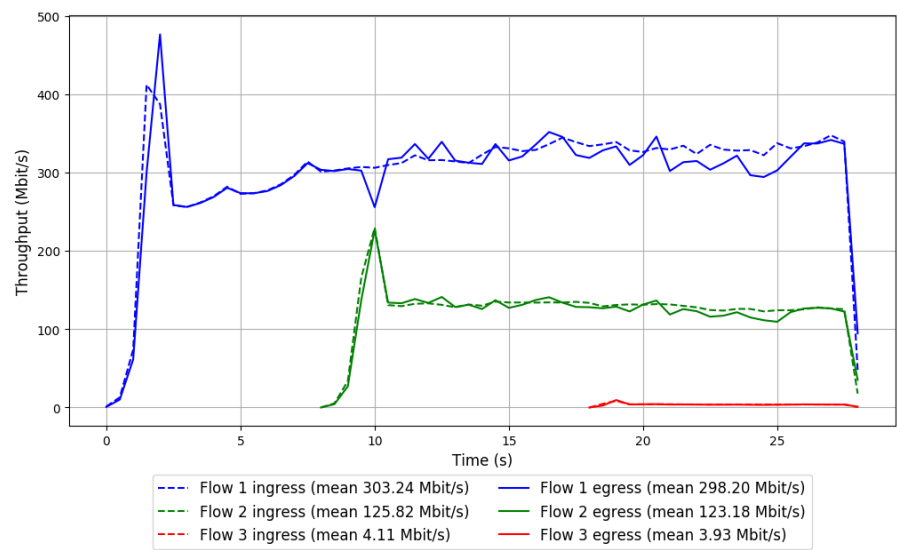
-- Flow 3:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 236.339 ms

Loss rate: 4.29%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-27 03:13:13

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

Below is generated by plot.py at 2018-01-27 06:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.69 Mbit/s

95th percentile per-packet one-way delay: 179.121 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 365.60 Mbit/s

95th percentile per-packet one-way delay: 170.934 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 208.673 ms

Loss rate: 1.39%

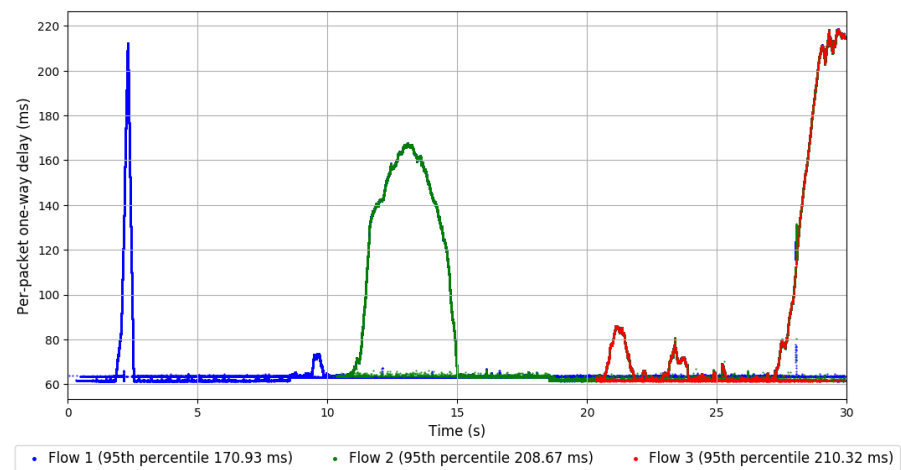
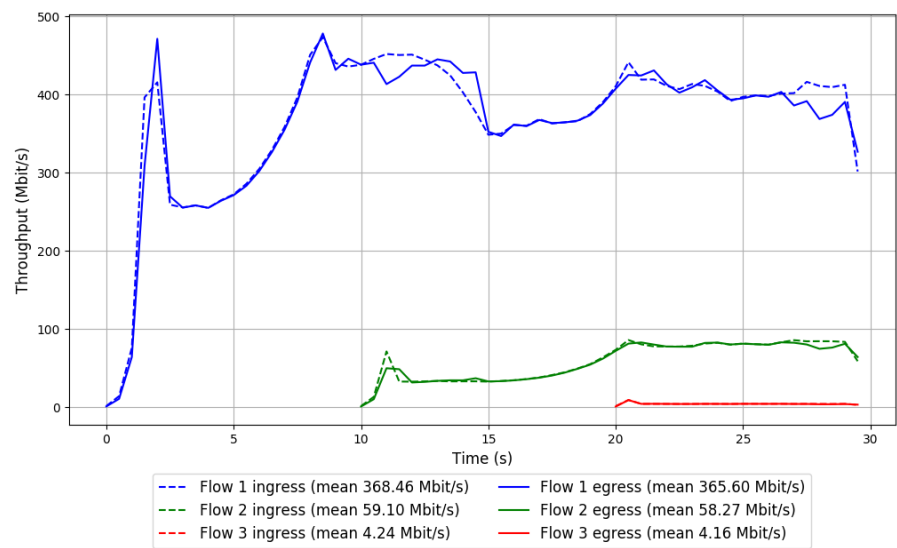
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 210.318 ms

Loss rate: 1.90%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

End at: 2018-01-27 03:28:29

Below is generated by plot.py at 2018-01-27 06:10:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.20 Mbit/s

95th percentile per-packet one-way delay: 207.807 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 382.16 Mbit/s

95th percentile per-packet one-way delay: 207.753 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 208.384 ms

Loss rate: 1.36%

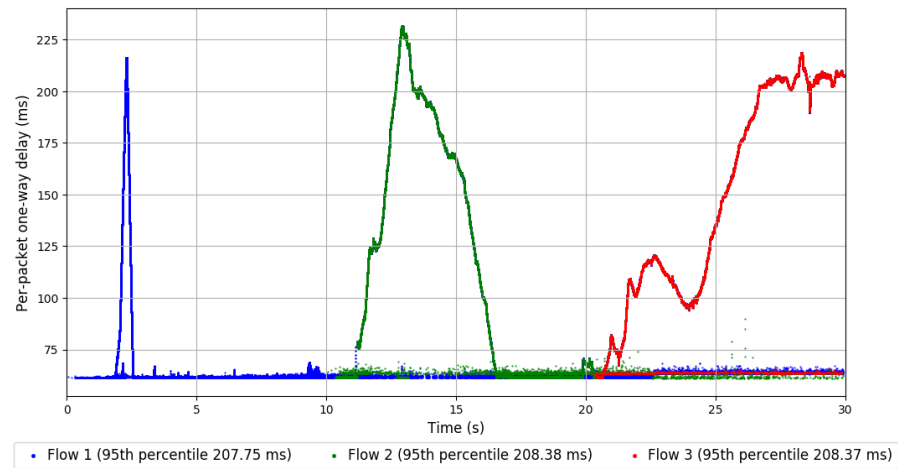
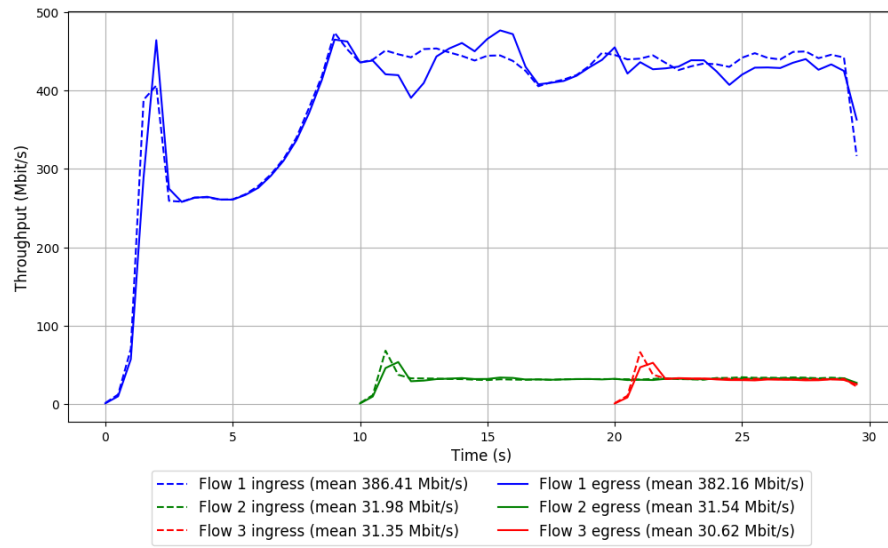
-- Flow 3:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 208.365 ms

Loss rate: 2.28%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-27 03:42:34

End at: 2018-01-27 03:43:04

Below is generated by plot.py at 2018-01-27 06:11:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 465.31 Mbit/s

95th percentile per-packet one-way delay: 197.125 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 462.79 Mbit/s

95th percentile per-packet one-way delay: 197.136 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 195.876 ms

Loss rate: 0.11%

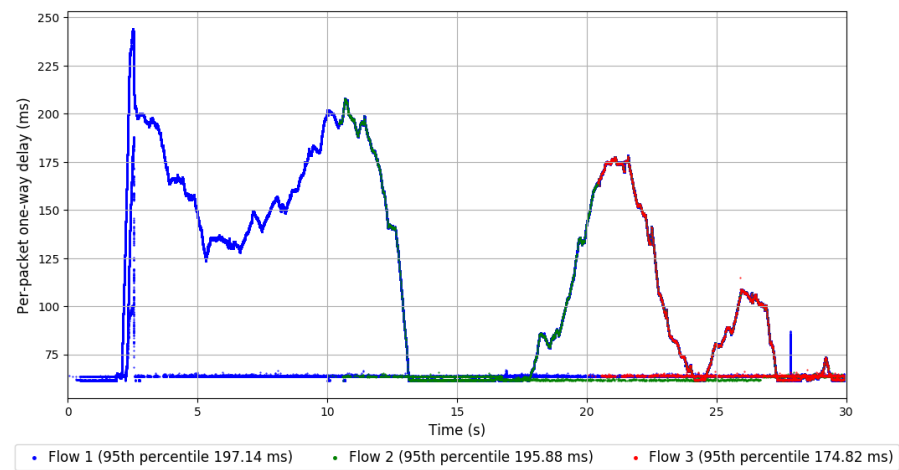
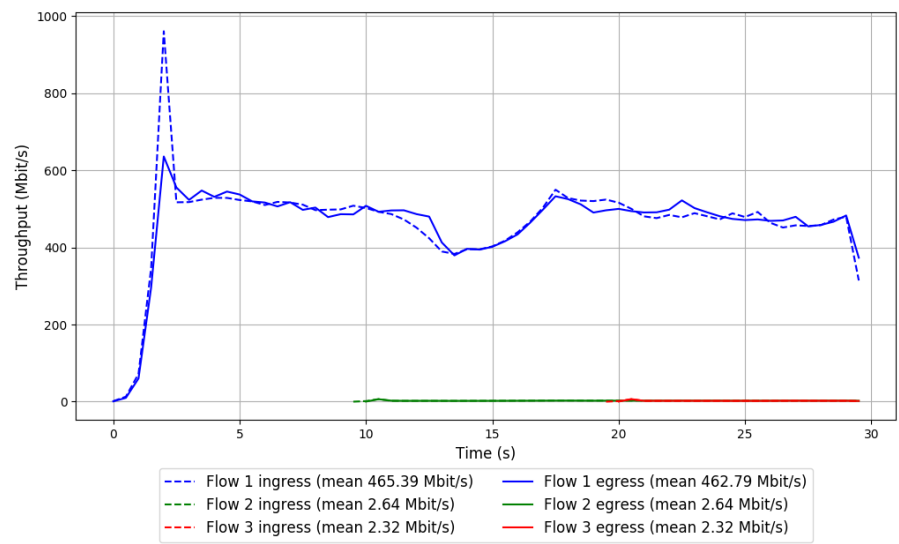
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 174.820 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-27 03:57:12

End at: 2018-01-27 03:57:42

Below is generated by plot.py at 2018-01-27 06:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.43 Mbit/s

95th percentile per-packet one-way delay: 212.375 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 425.56 Mbit/s

95th percentile per-packet one-way delay: 212.812 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 155.499 ms

Loss rate: 0.05%

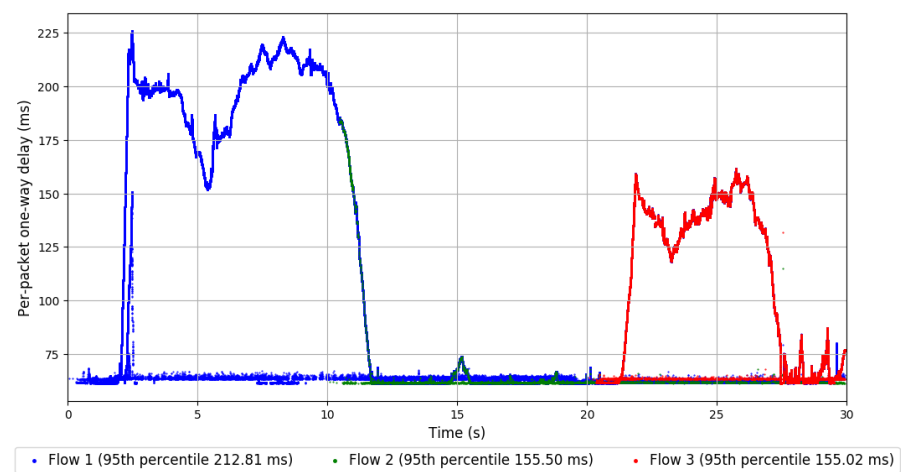
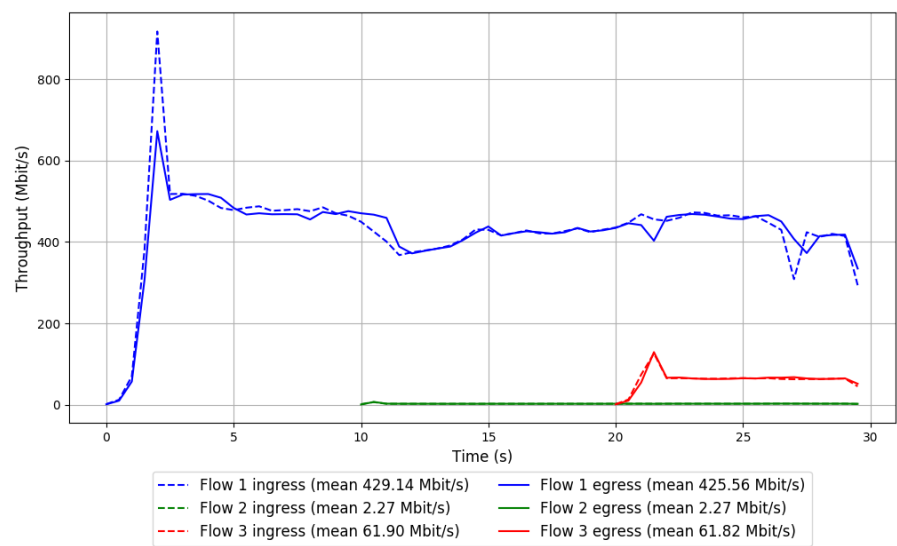
-- Flow 3:

Average throughput: 61.82 Mbit/s

95th percentile per-packet one-way delay: 155.018 ms

Loss rate: 0.13%

Run 9: Report of PCC — Data Link

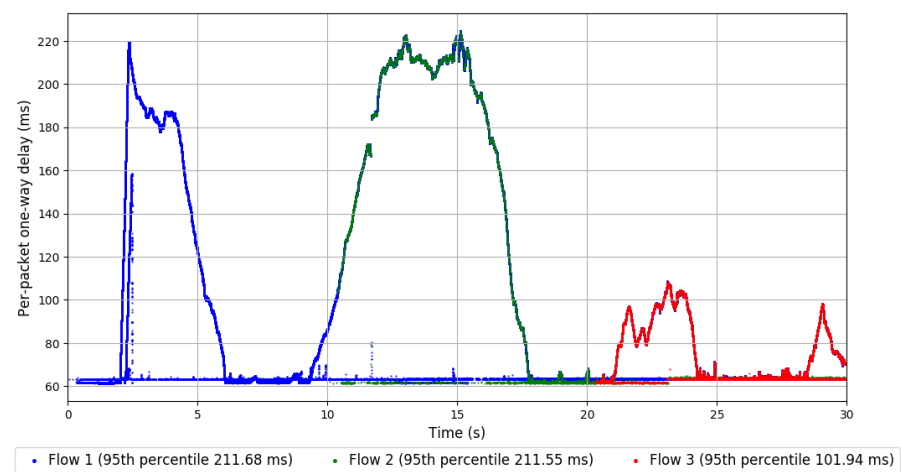
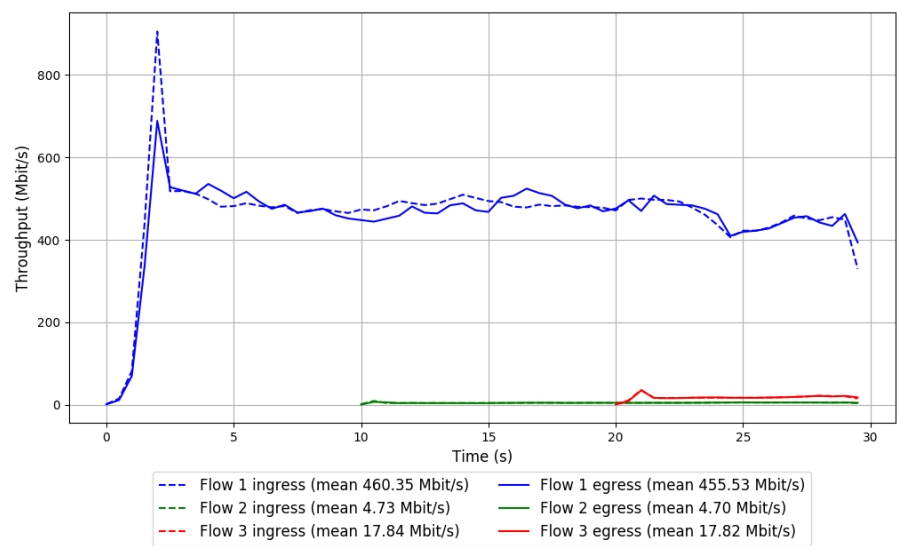


```
Run 10: Statistics of PCC

Start at: 2018-01-27 04:11:58
End at: 2018-01-27 04:12:28

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 464.52 Mbit/s
95th percentile per-packet one-way delay: 211.645 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 455.53 Mbit/s
95th percentile per-packet one-way delay: 211.680 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 211.551 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 17.82 Mbit/s
95th percentile per-packet one-way delay: 101.942 ms
Loss rate: 0.07%
```

Run 10: Report of PCC — Data Link

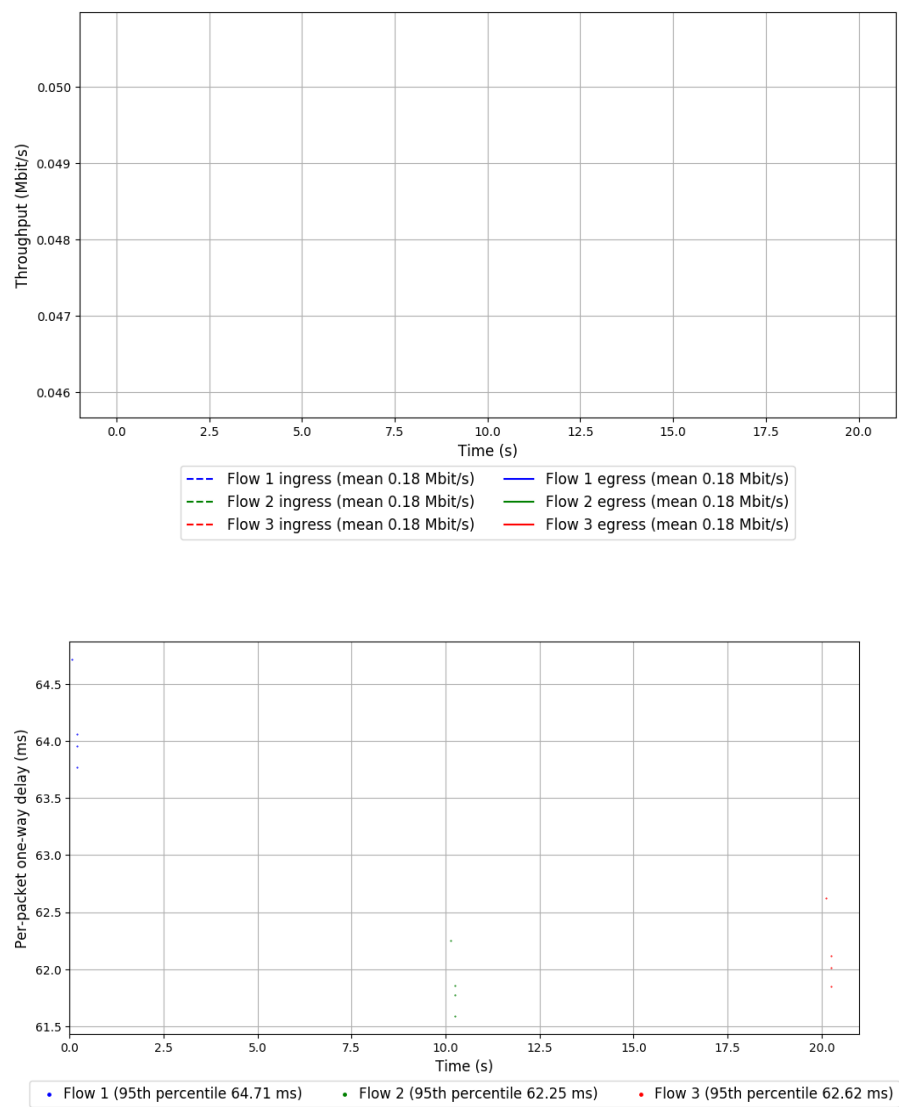


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-27 02:09:14

End at: 2018-01-27 02:09:44

Run 1: Report of QUIC Cubic — Data Link

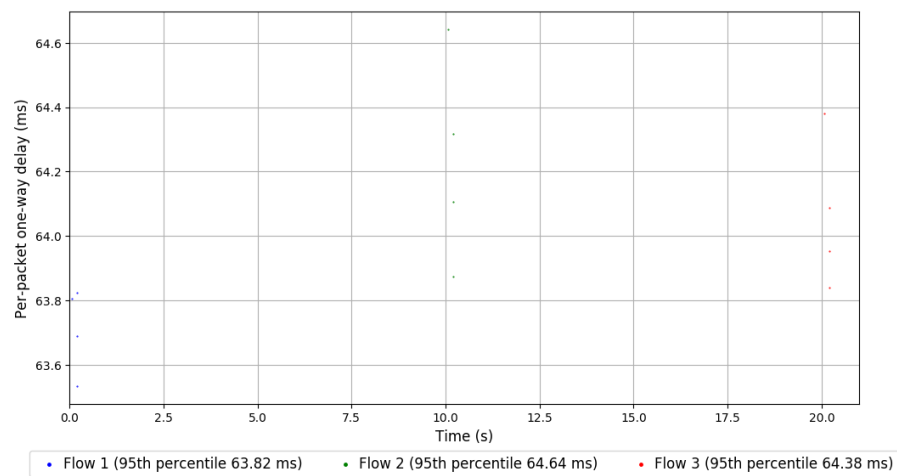
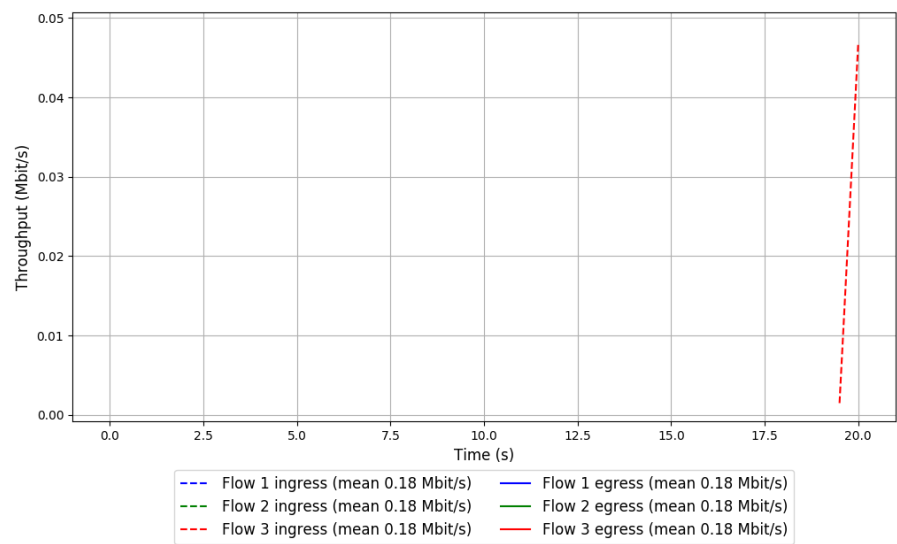


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-27 02:23:22

End at: 2018-01-27 02:23:52

Run 2: Report of QUIC Cubic — Data Link

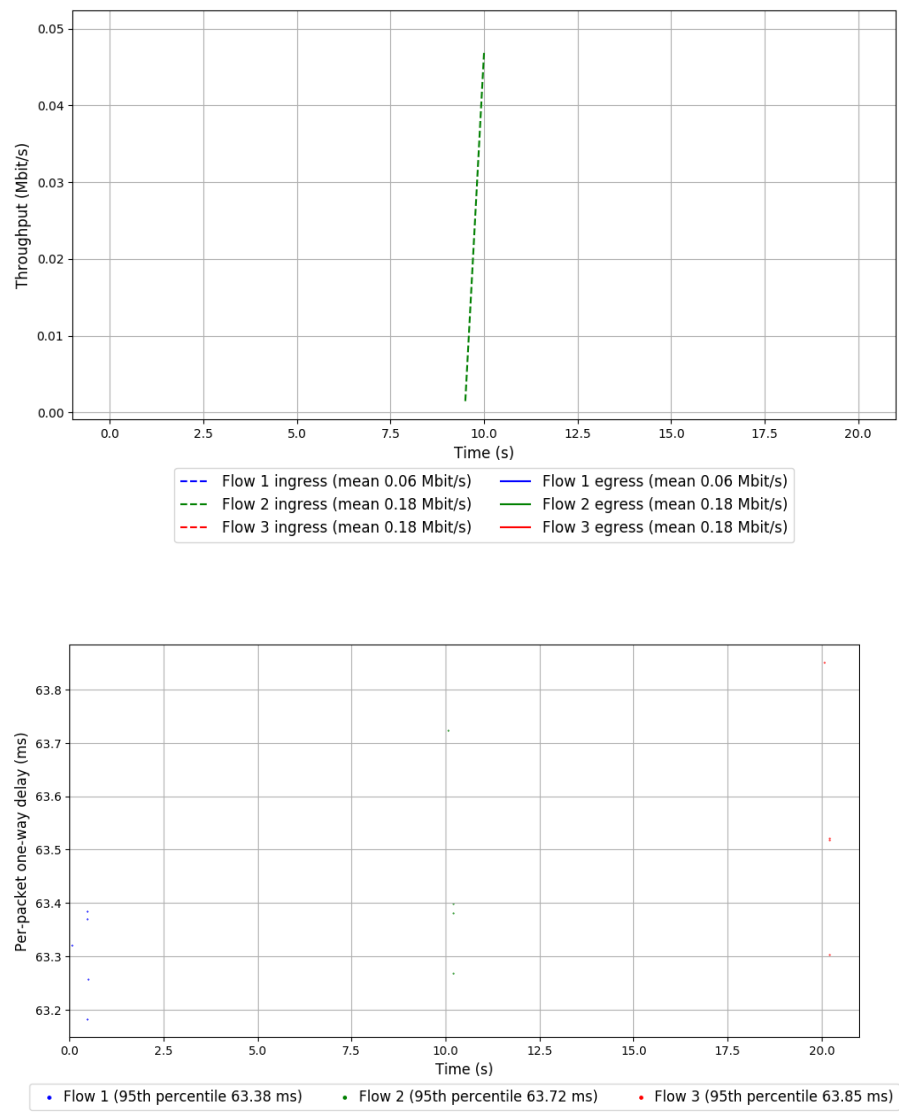


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-27 02:37:37

End at: 2018-01-27 02:38:07

Run 3: Report of QUIC Cubic — Data Link

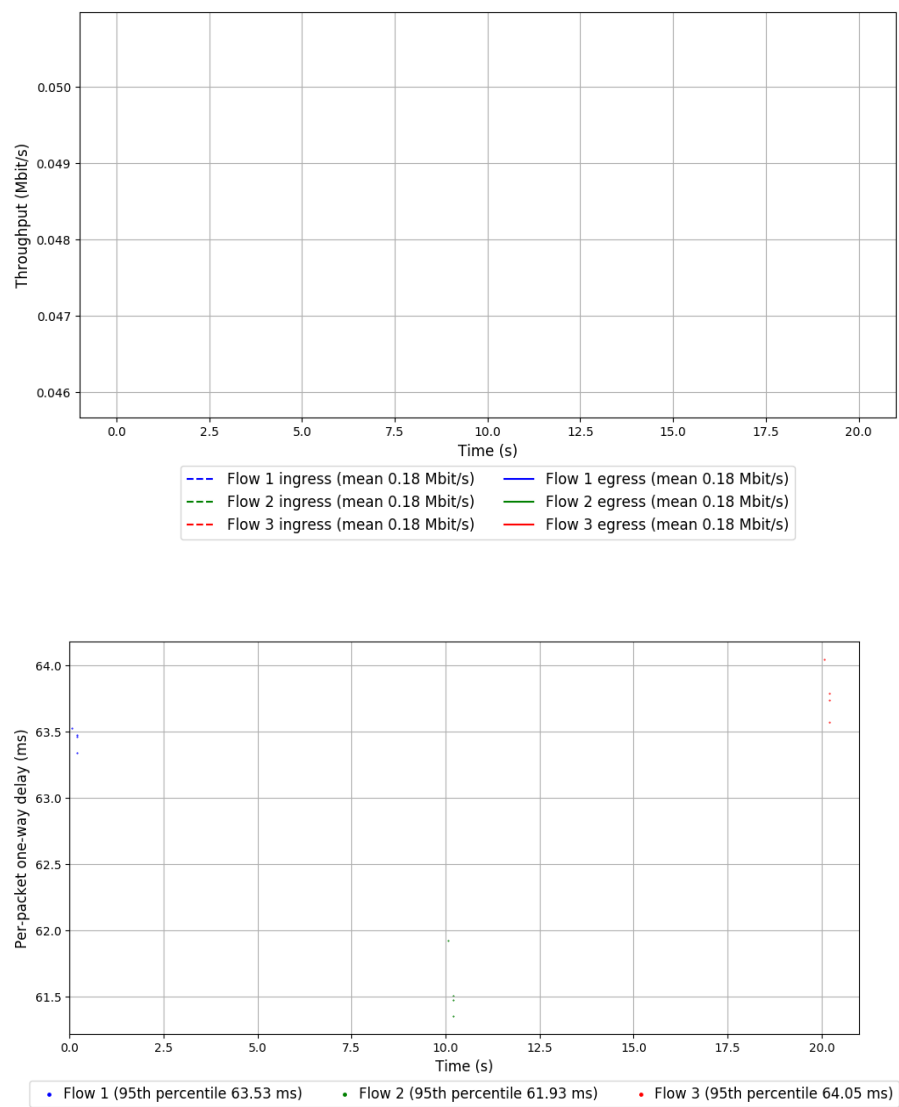


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-27 02:52:28

End at: 2018-01-27 02:52:58

Run 4: Report of QUIC Cubic — Data Link

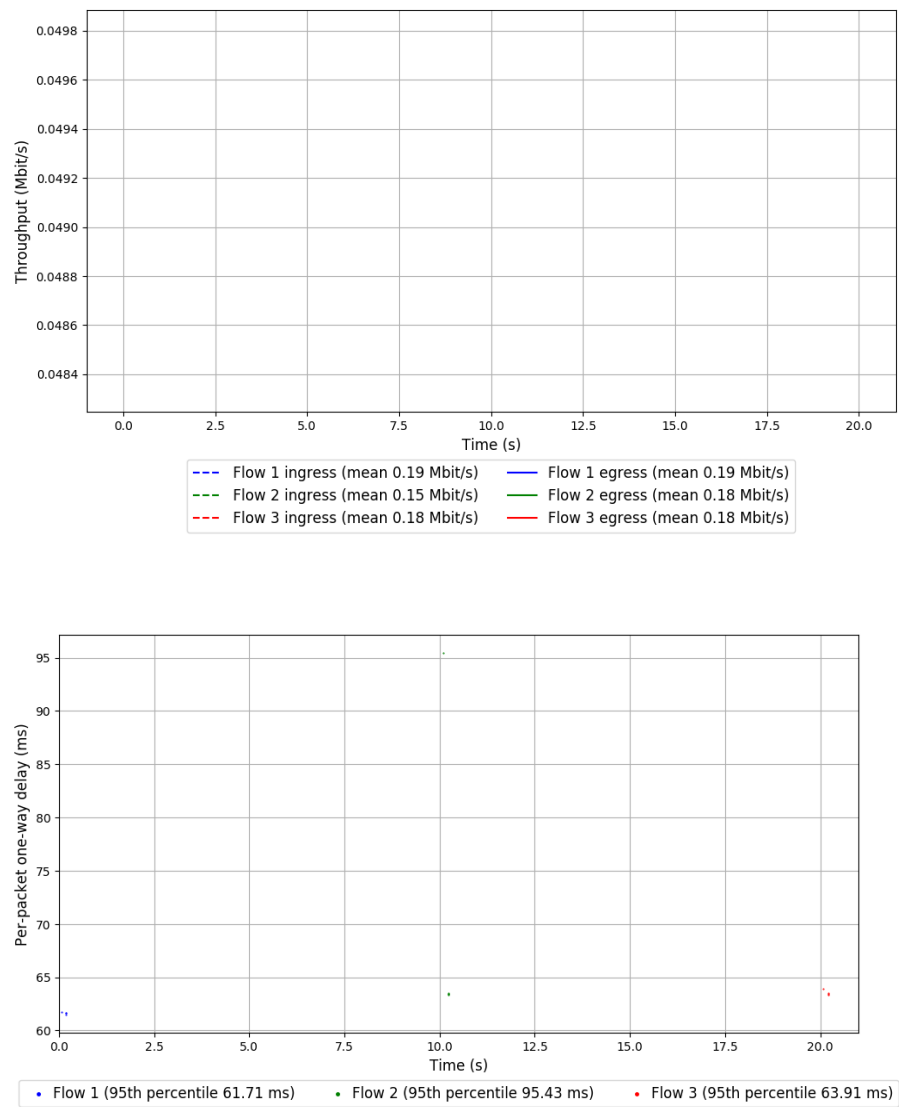


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-27 03:06:55

End at: 2018-01-27 03:07:25

Run 5: Report of QUIC Cubic — Data Link

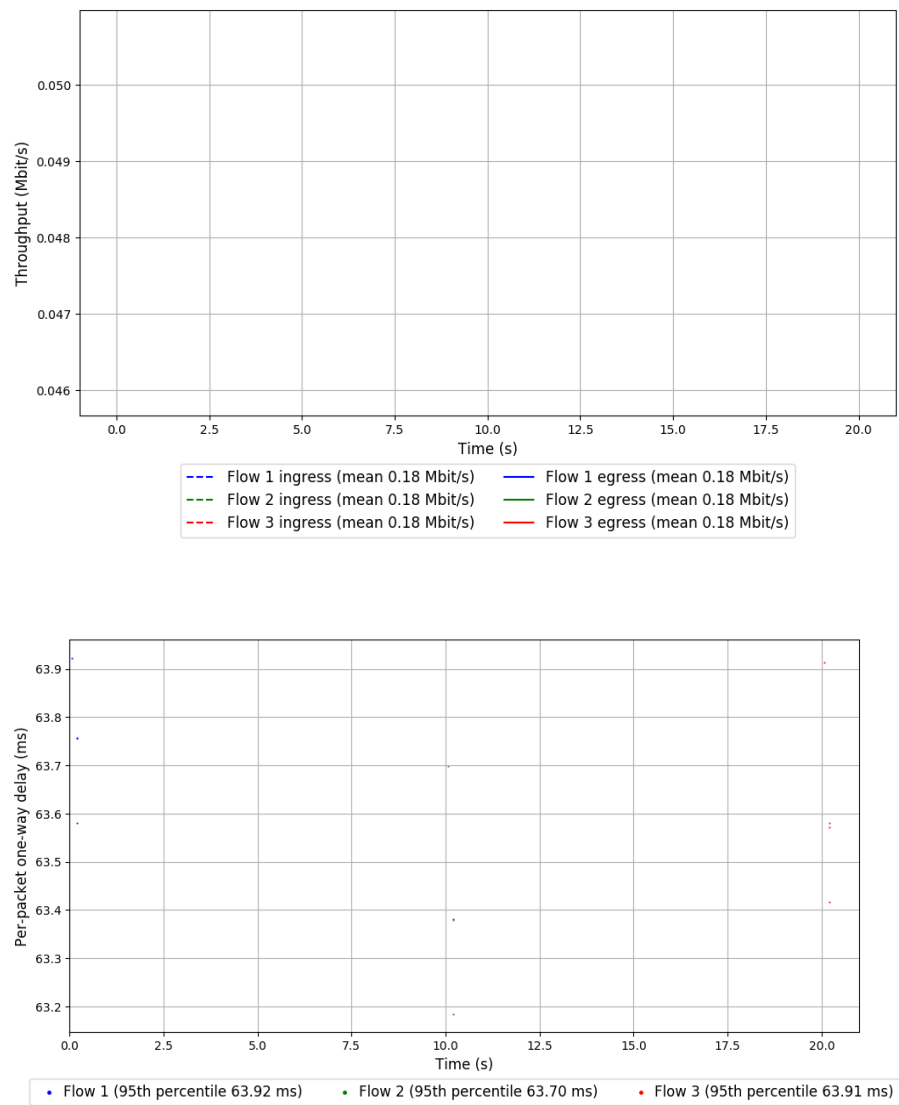


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-27 03:21:45

End at: 2018-01-27 03:22:15

Run 6: Report of QUIC Cubic — Data Link

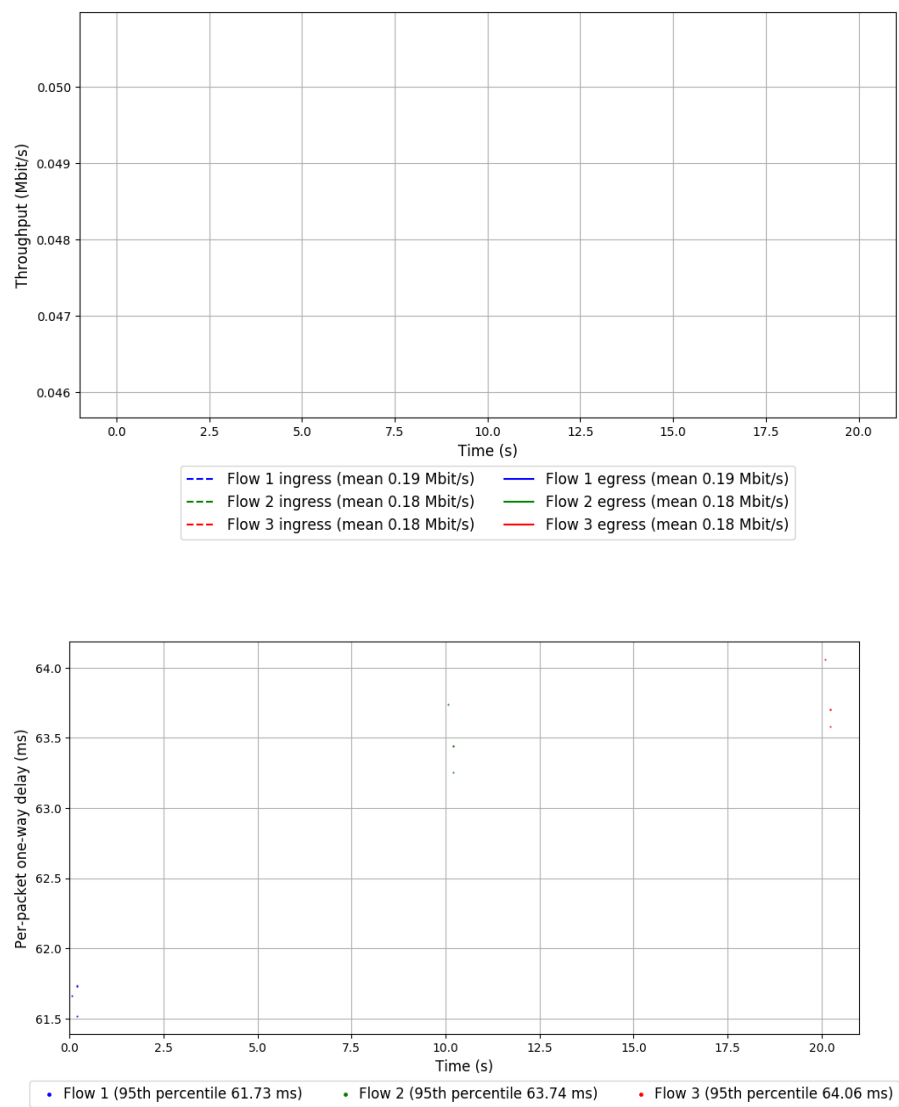


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-27 03:36:20

End at: 2018-01-27 03:36:50

Run 7: Report of QUIC Cubic — Data Link

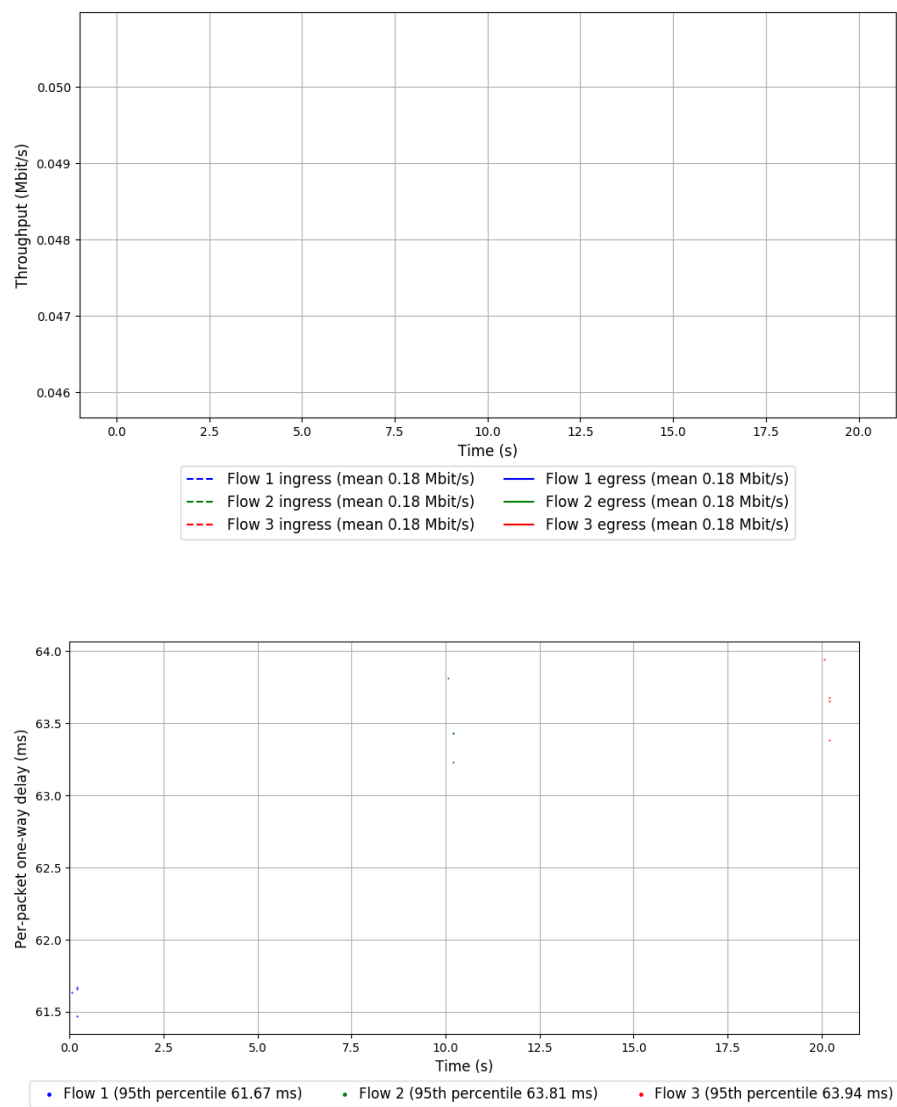


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-27 03:51:01

End at: 2018-01-27 03:51:31

Run 8: Report of QUIC Cubic — Data Link

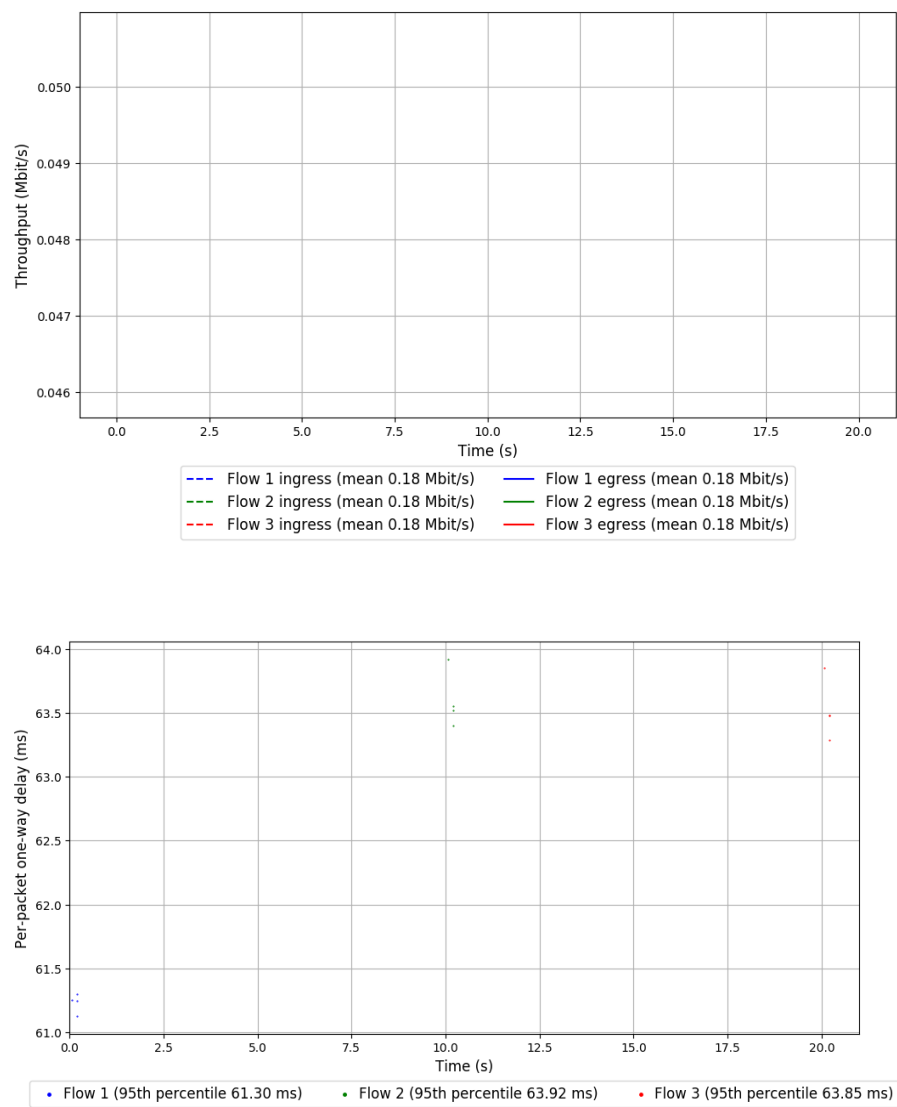


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-27 04:05:43

End at: 2018-01-27 04:06:13

Run 9: Report of QUIC Cubic — Data Link

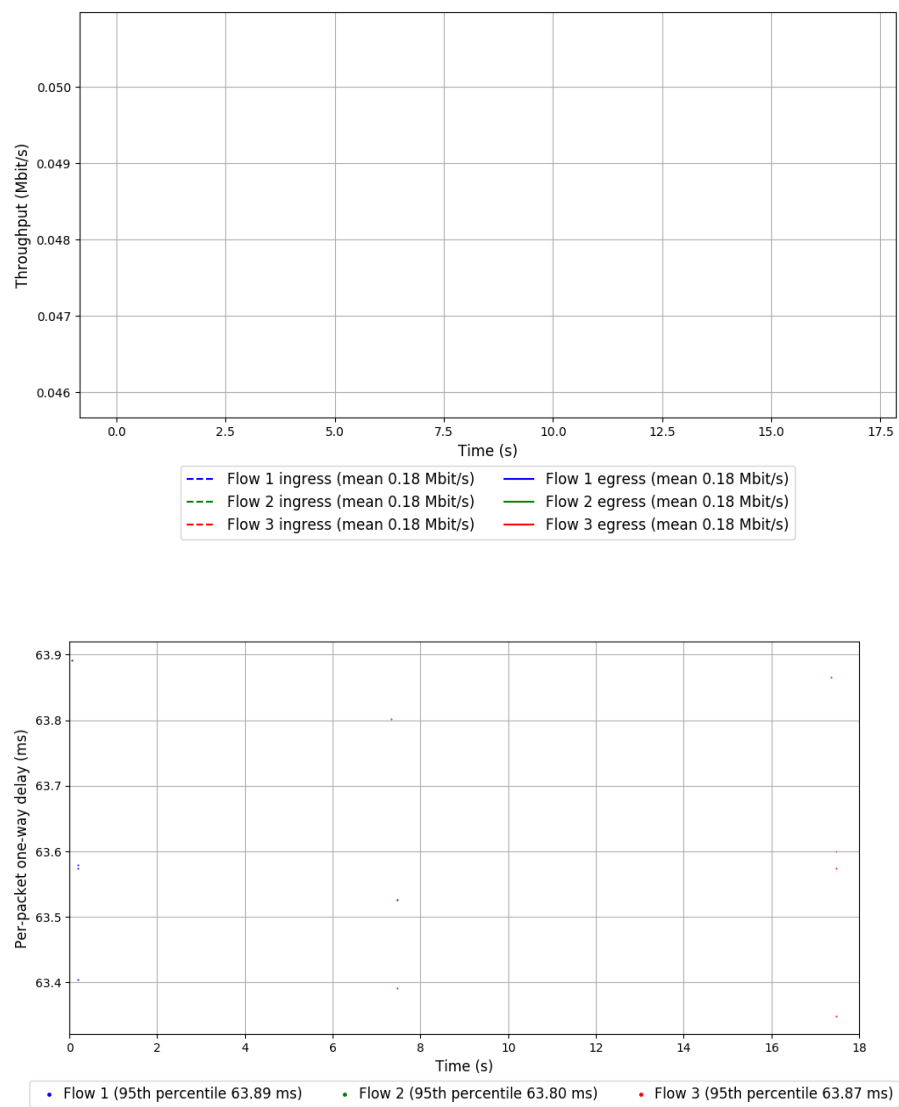


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-27 04:20:27

End at: 2018-01-27 04:20:57

Run 10: Report of QUIC Cubic — Data Link

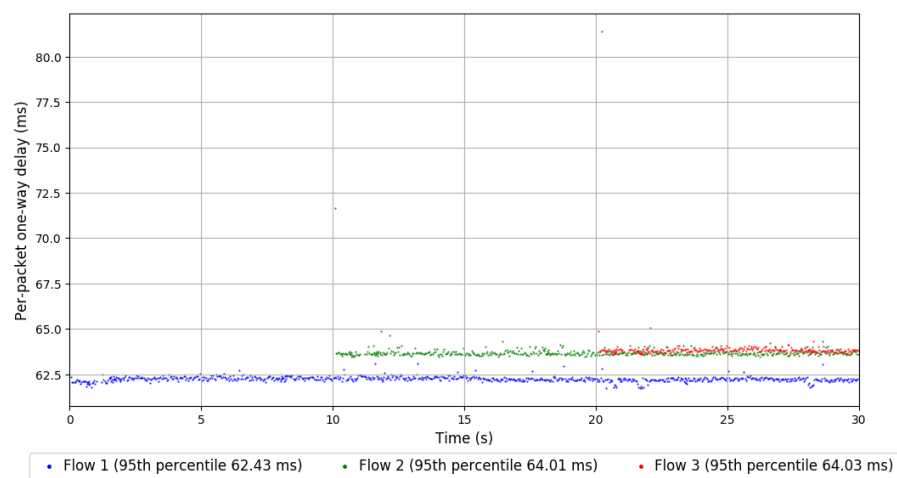
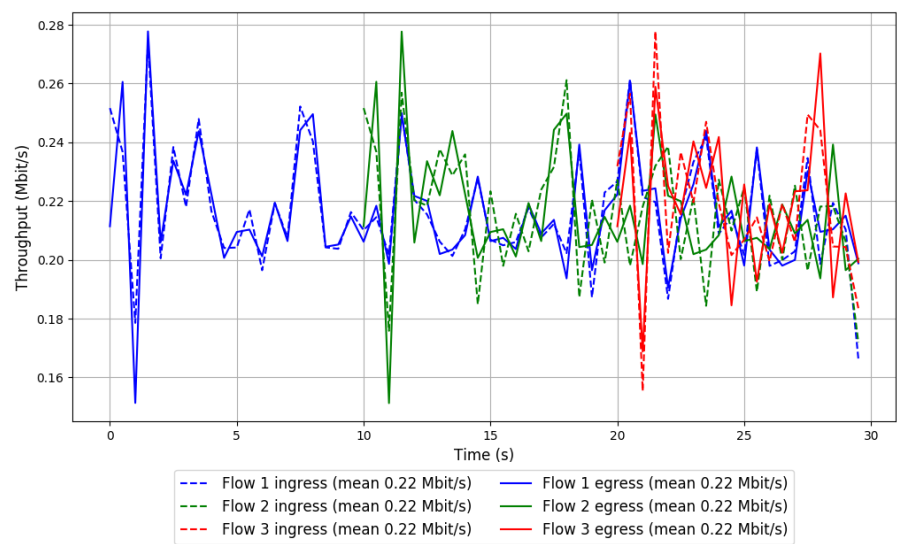


```
Run 1: Statistics of SCReAM

Start at: 2018-01-27 02:12:50
End at: 2018-01-27 02:13:20

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.434 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.034 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

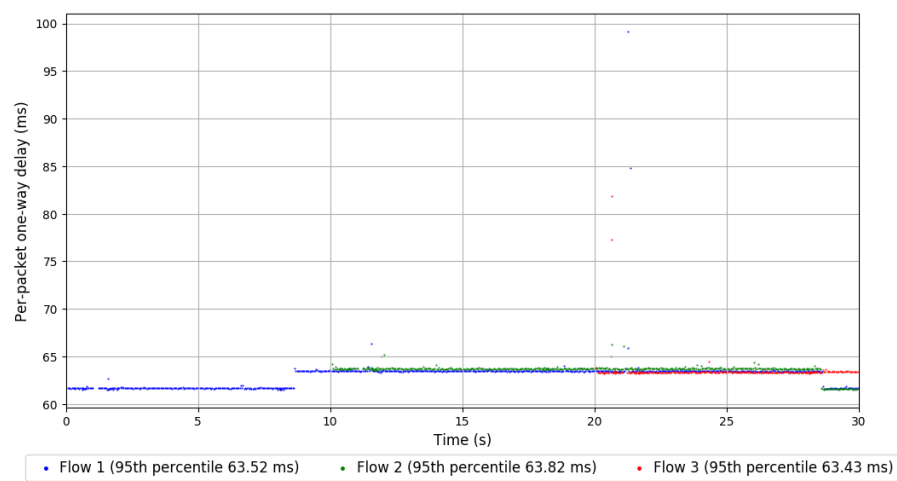
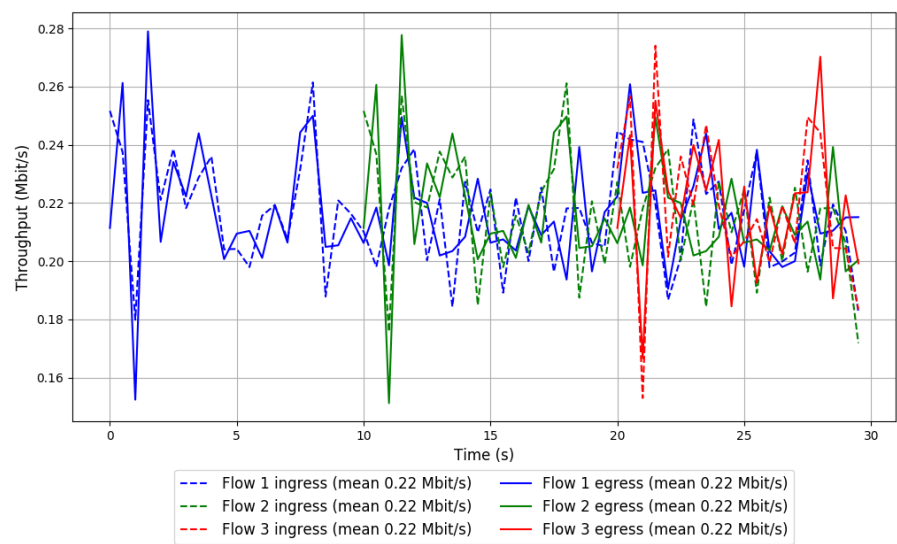


```
Run 2: Statistics of SReAM

Start at: 2018-01-27 02:26:53
End at: 2018-01-27 02:27:23

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.520 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.820 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

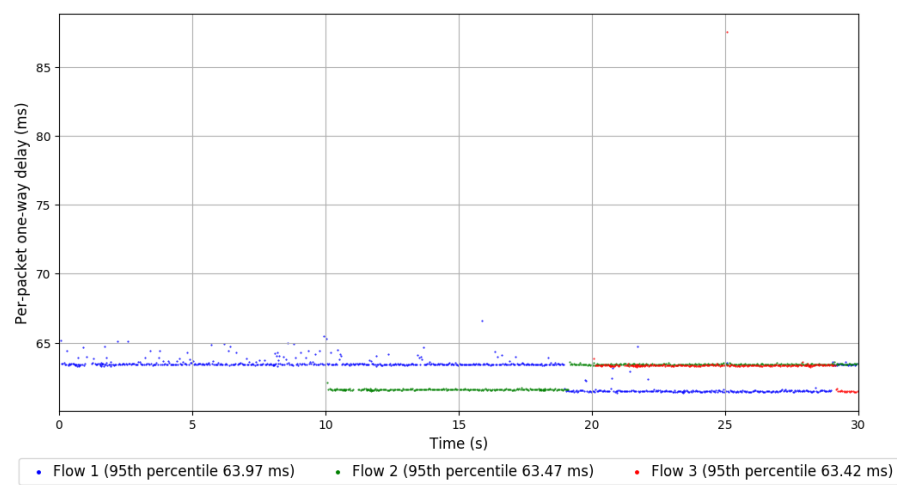
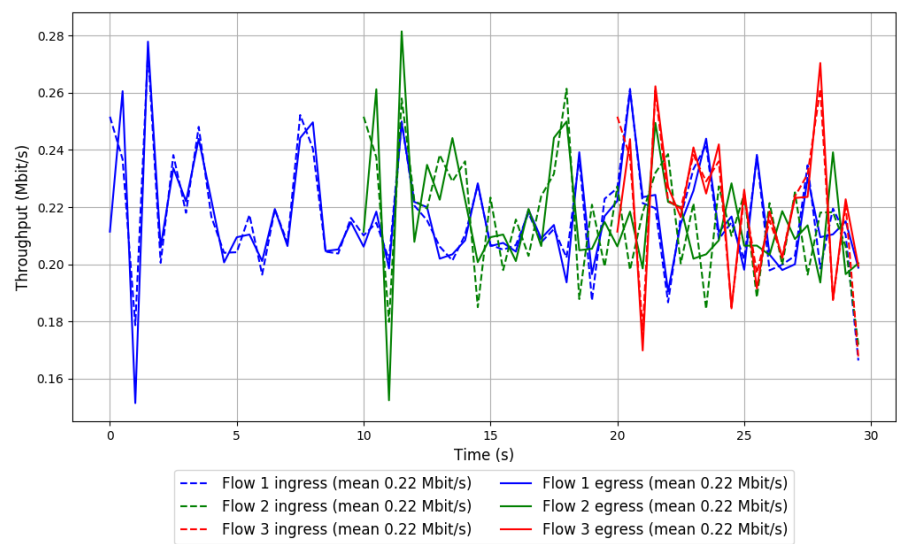


```
Run 3: Statistics of SReAM

Start at: 2018-01-27 02:41:22
End at: 2018-01-27 02:41:52

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.968 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.425 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

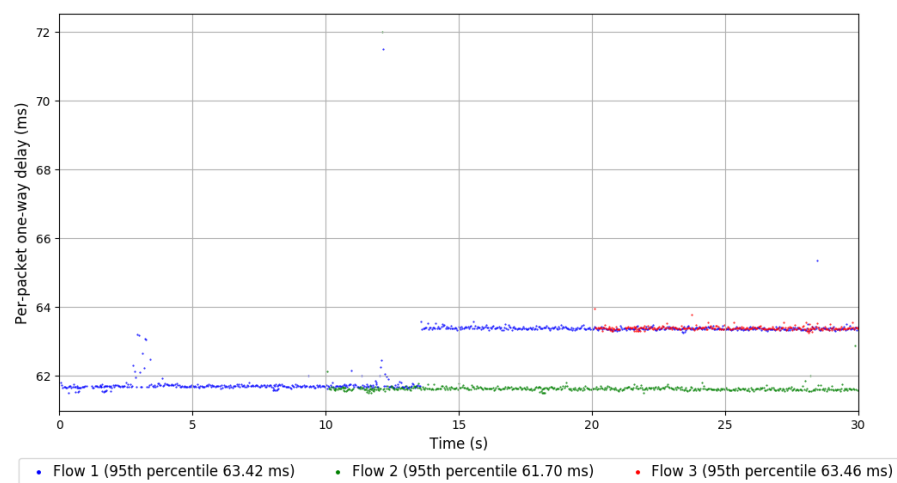
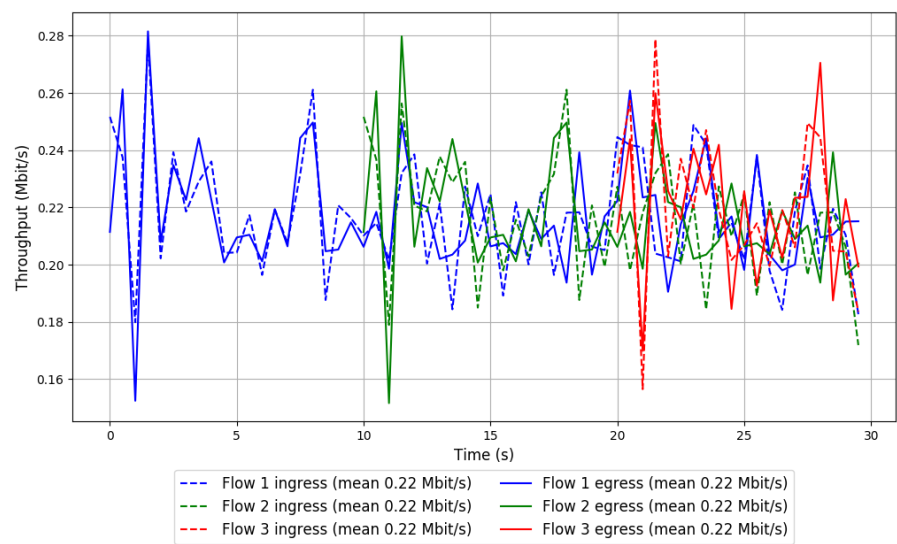


```
Run 4: Statistics of SReAM

Start at: 2018-01-27 02:55:58
End at: 2018-01-27 02:56:28

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.422 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.698 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.462 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

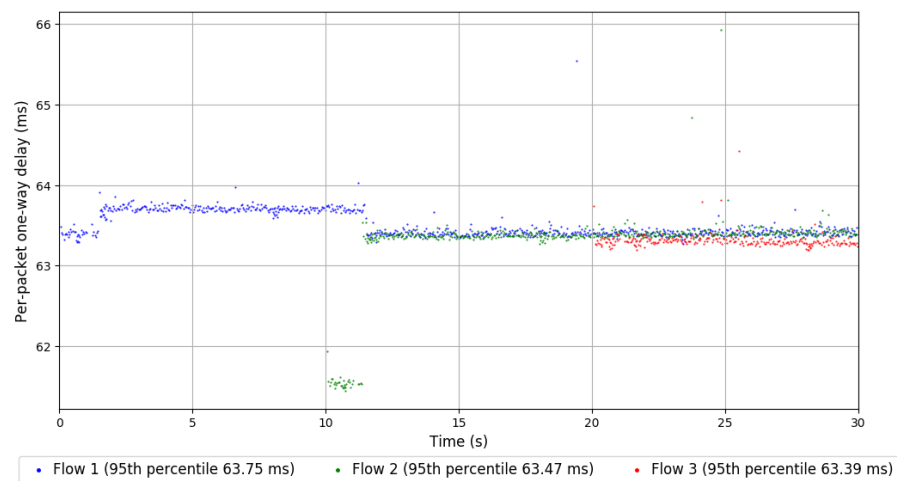
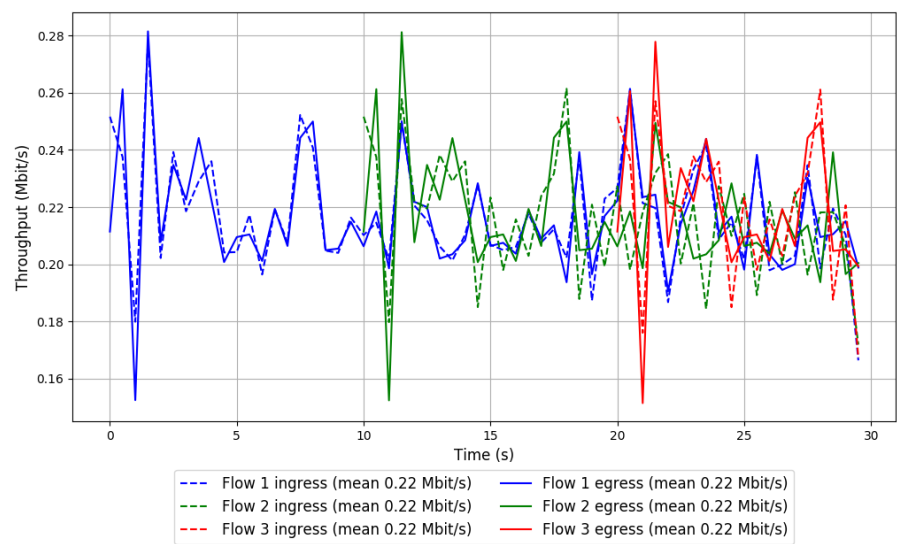


```
Run 5: Statistics of SReAM

Start at: 2018-01-27 03:10:40
End at: 2018-01-27 03:11:10

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.387 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-27 03:25:35

End at: 2018-01-27 03:26:05

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.473 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.518 ms

Loss rate: 0.00%

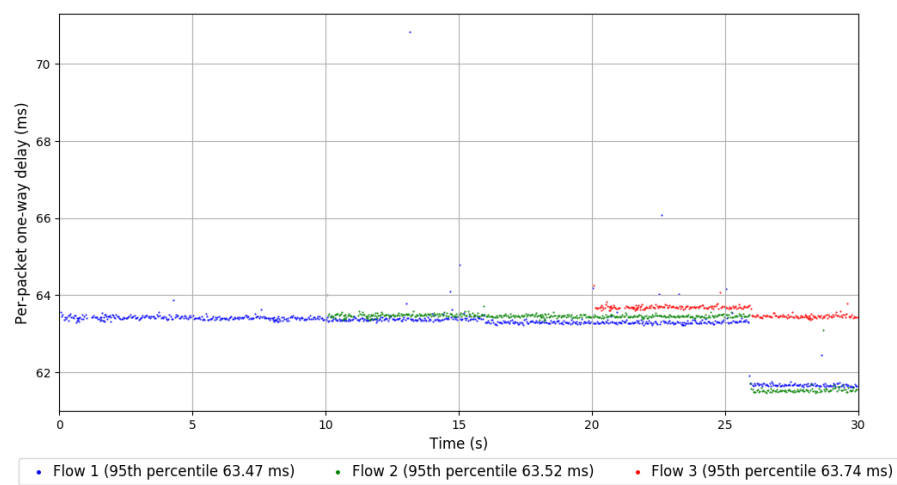
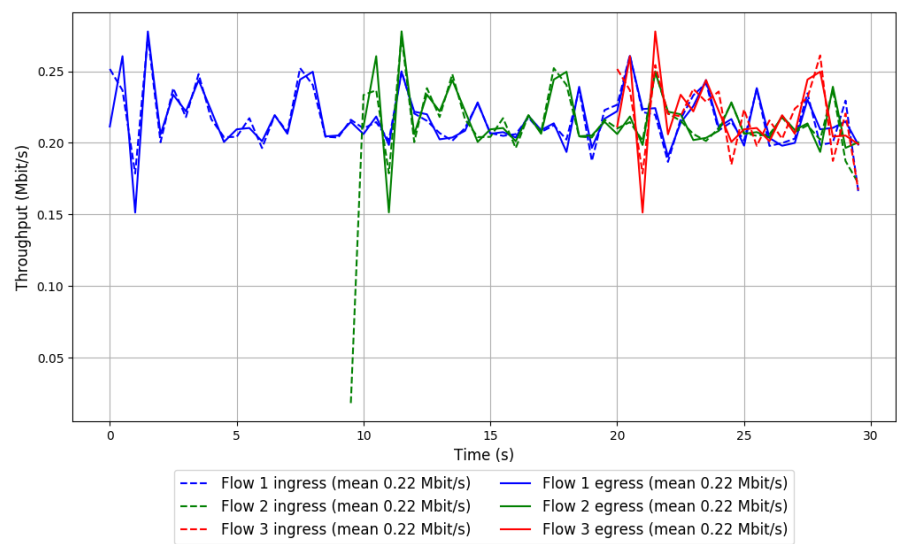
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

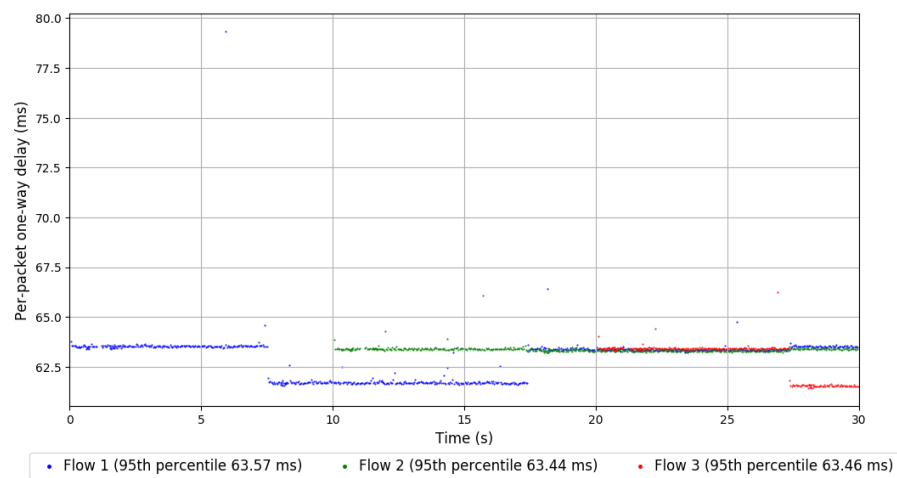
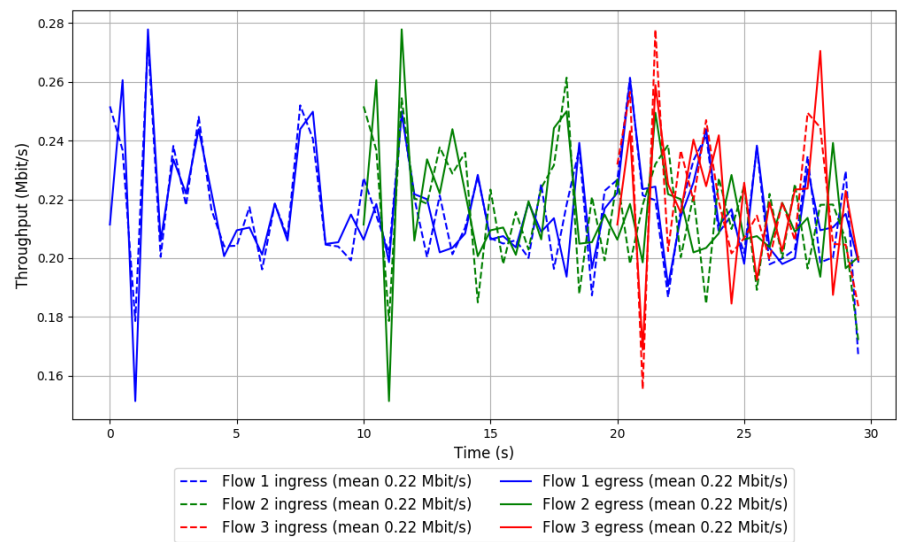


```
Run 7: Statistics of SCReAM

Start at: 2018-01-27 03:40:04
End at: 2018-01-27 03:40:34

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.569 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.439 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.464 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-27 03:54:44

End at: 2018-01-27 03:55:14

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.496 ms

Loss rate: 0.00%

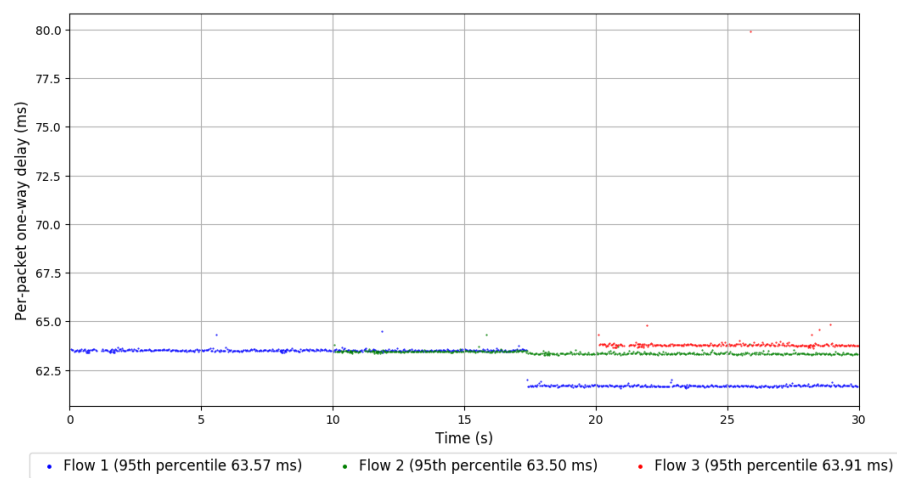
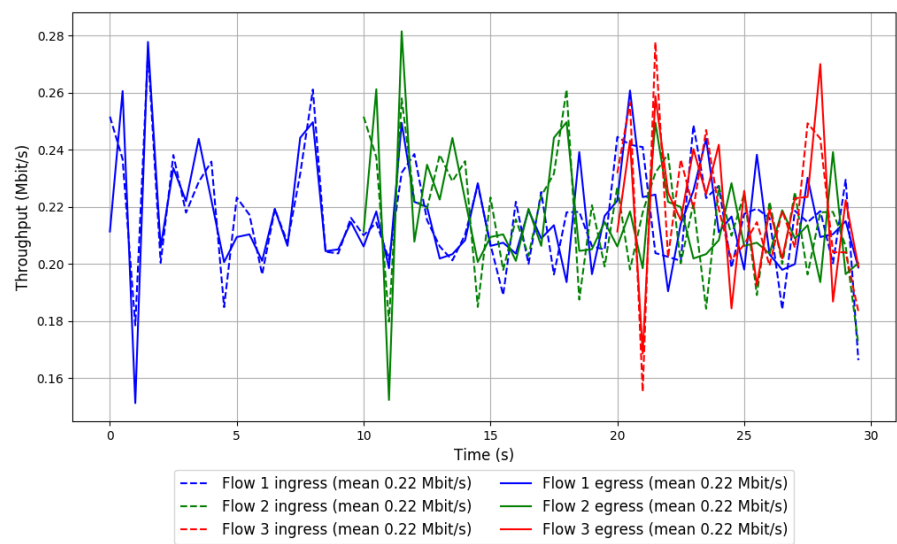
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.914 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

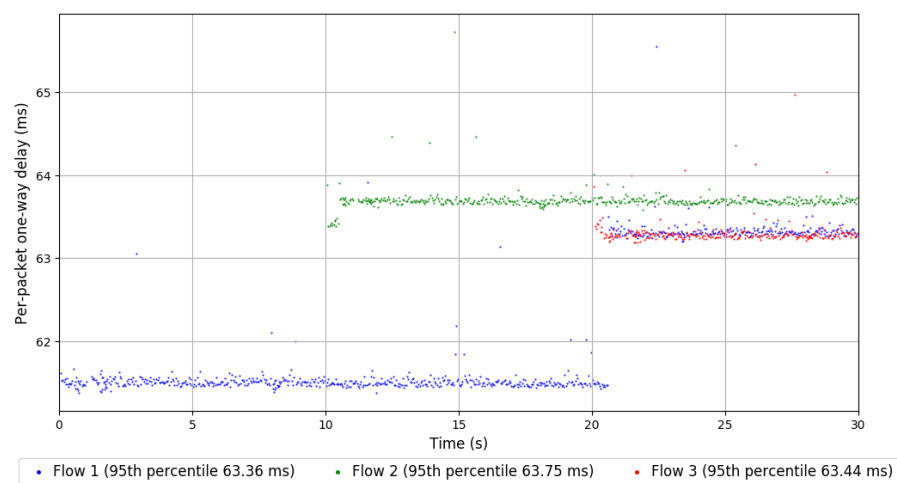
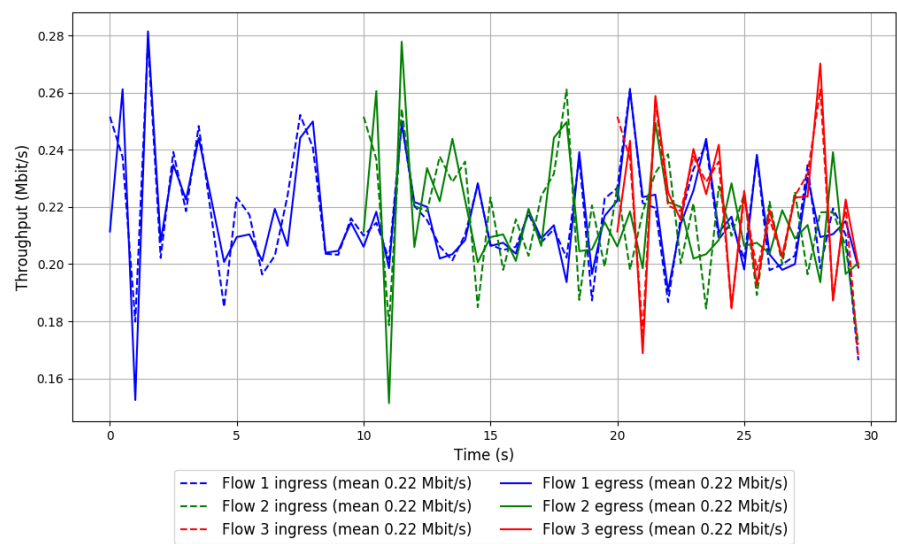


```
Run 9: Statistics of SReAM

Start at: 2018-01-27 04:09:31
End at: 2018-01-27 04:10:01

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.359 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.438 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link

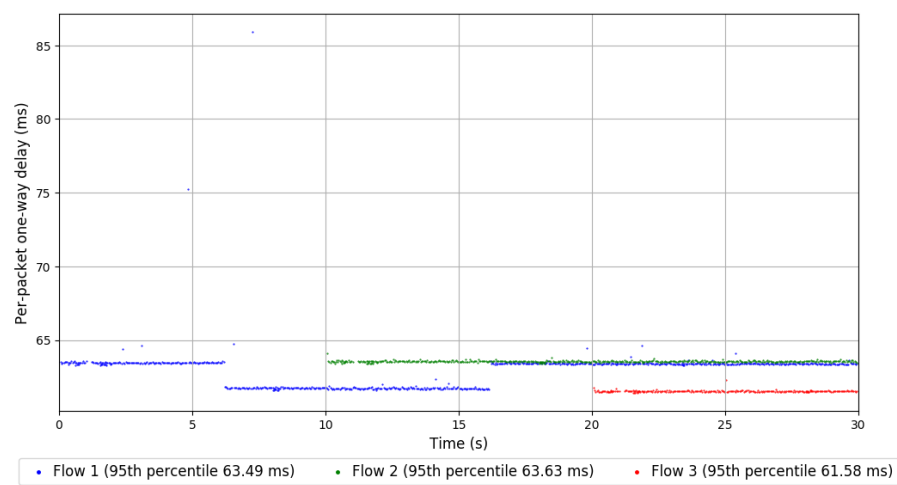
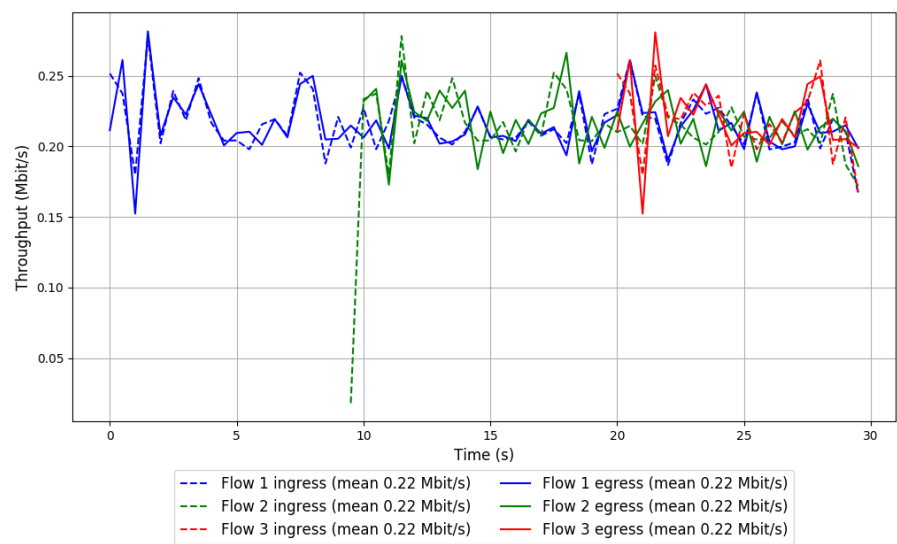


```
Run 10: Statistics of SReAM

Start at: 2018-01-27 04:24:05
End at: 2018-01-27 04:24:35

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.486 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.581 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

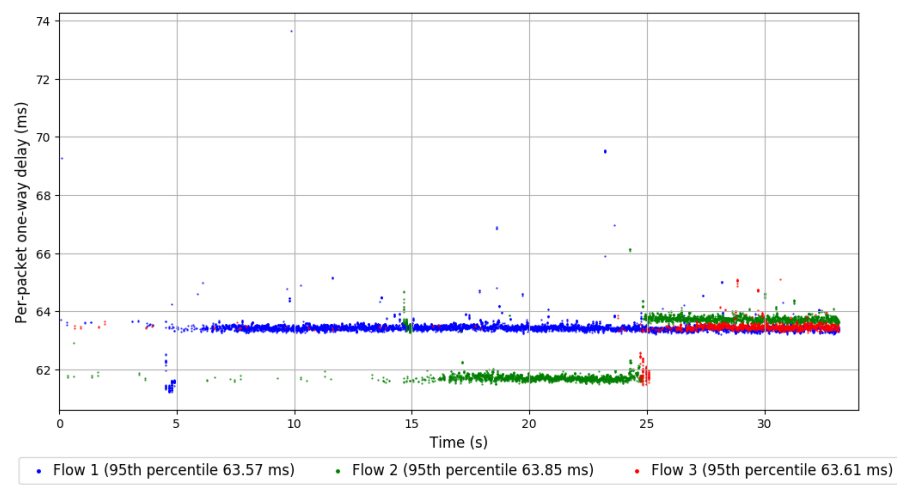
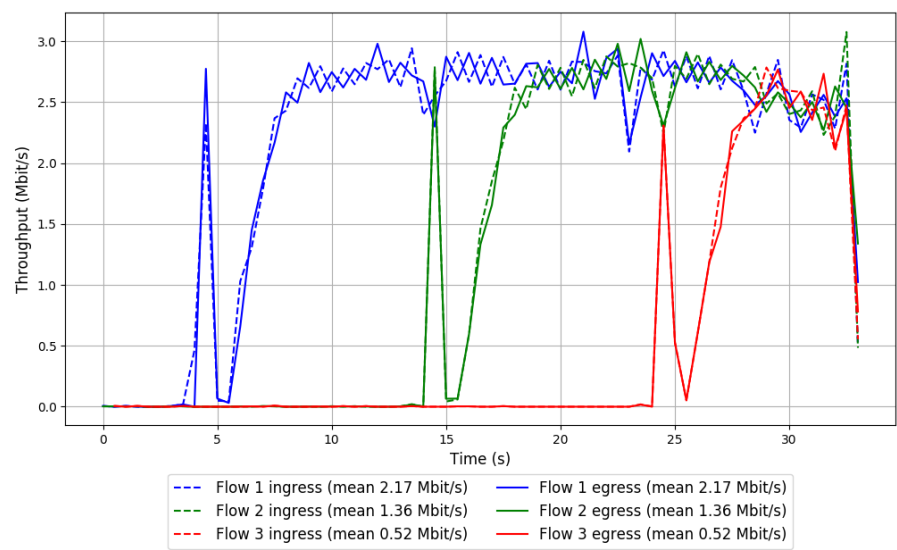


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-27 02:02:50
End at: 2018-01-27 02:03:20

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 63.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 63.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 63.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 63.611 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-27 02:17:03

End at: 2018-01-27 02:17:33

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 64.418 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 64.308 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 64.612 ms

Loss rate: 0.00%

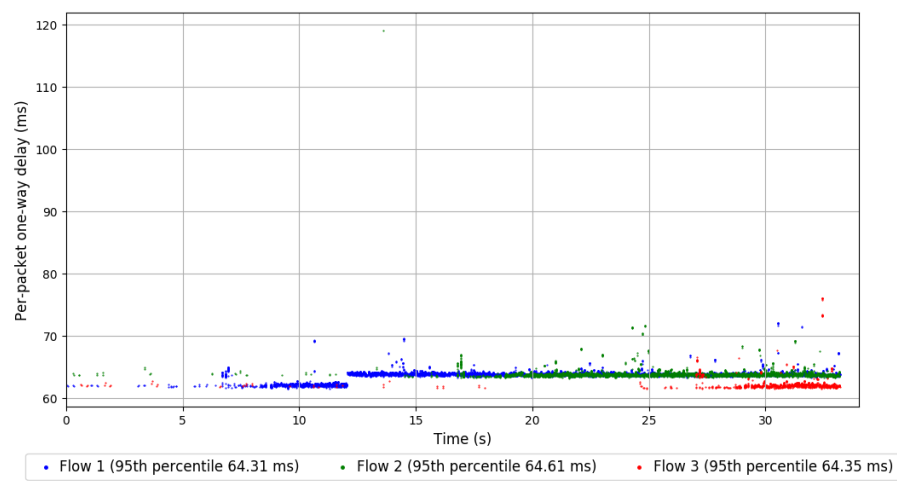
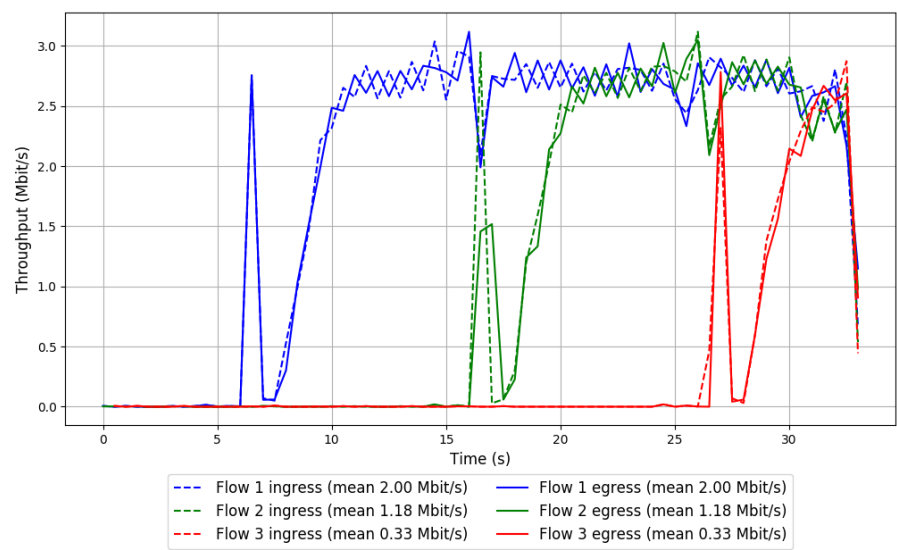
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 64.349 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-27 02:31:10

End at: 2018-01-27 02:31:40

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 61.776 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.498 ms

Loss rate: 0.00%

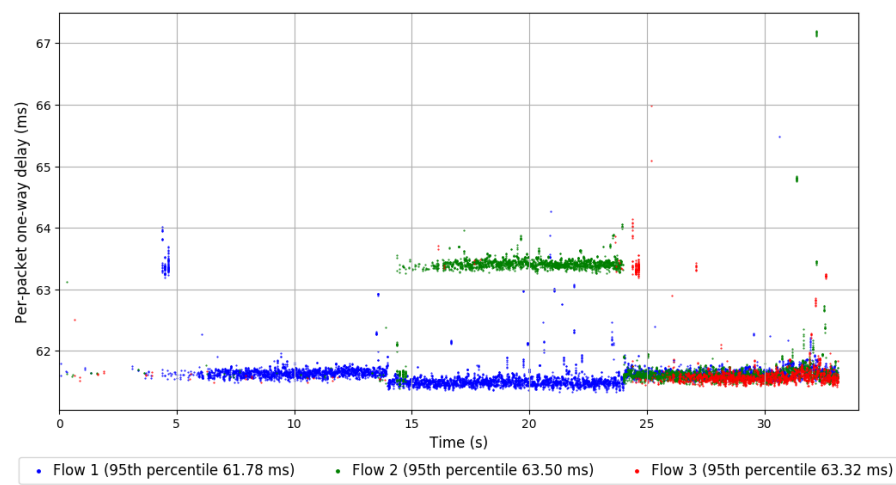
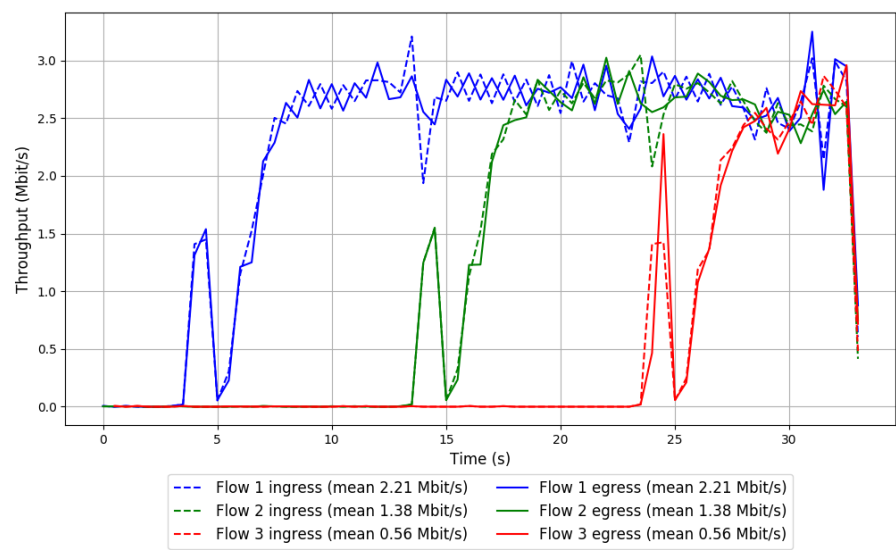
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.323 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-27 02:45:46

End at: 2018-01-27 02:46:16

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.00%

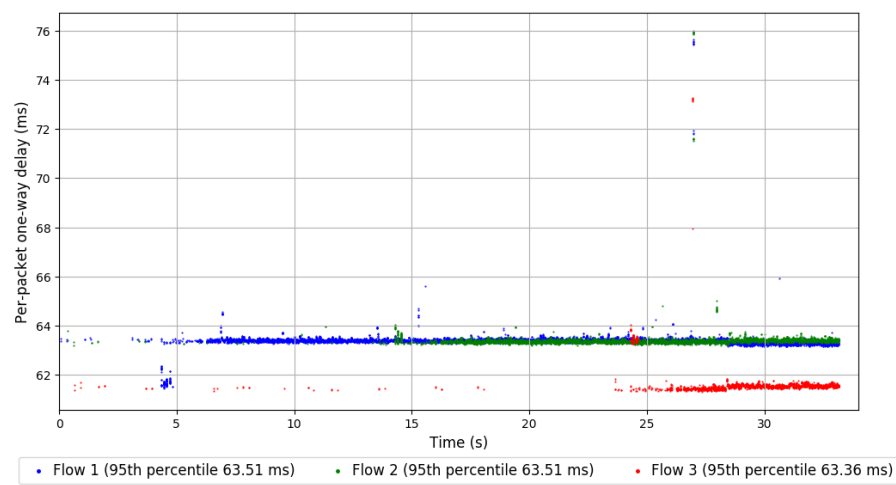
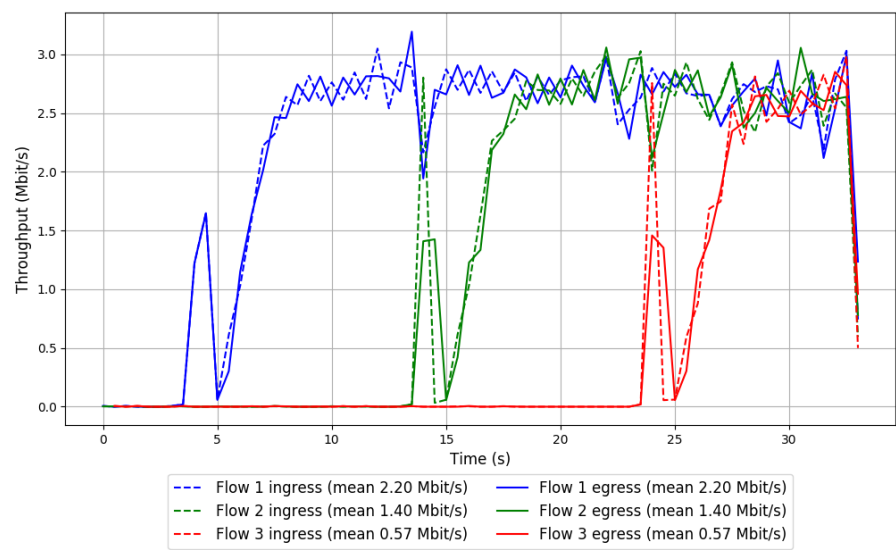
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.356 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

End at: 2018-01-27 03:00:57

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.437 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.433 ms

Loss rate: 0.02%

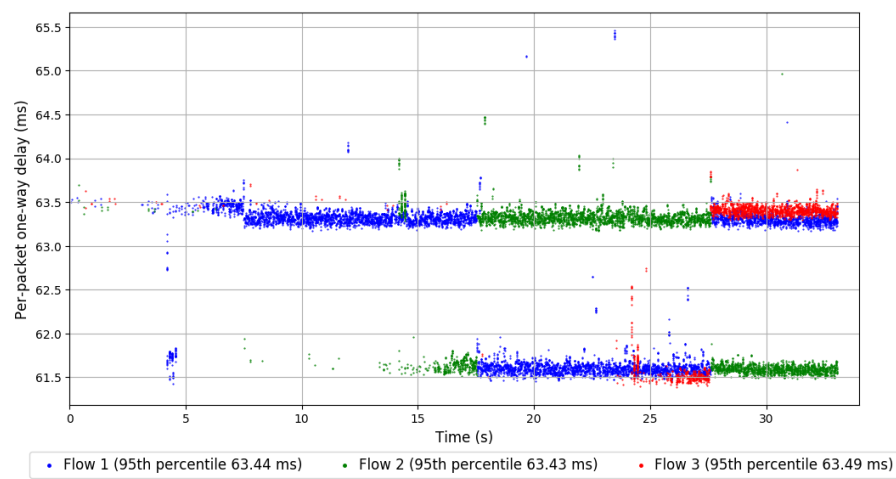
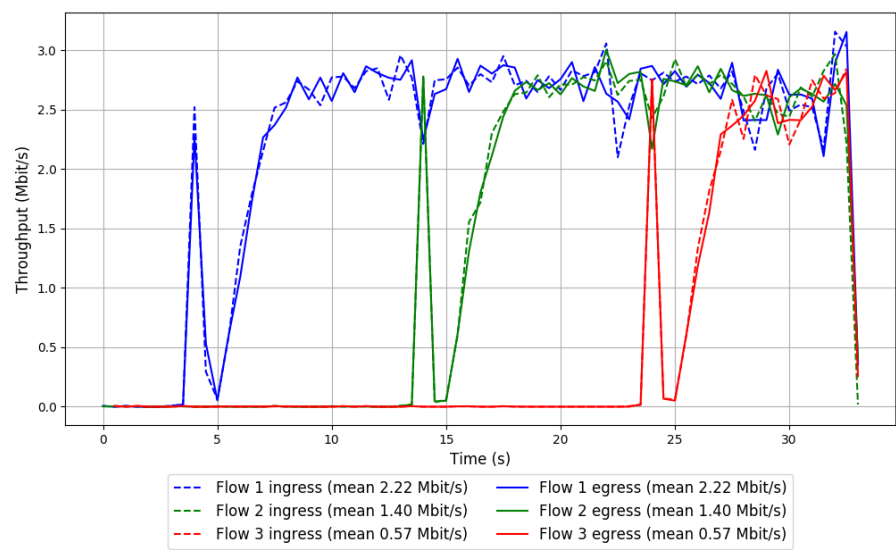
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.488 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-27 03:15:06

End at: 2018-01-27 03:15:36

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.397 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.420 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.804 ms

Loss rate: 0.00%

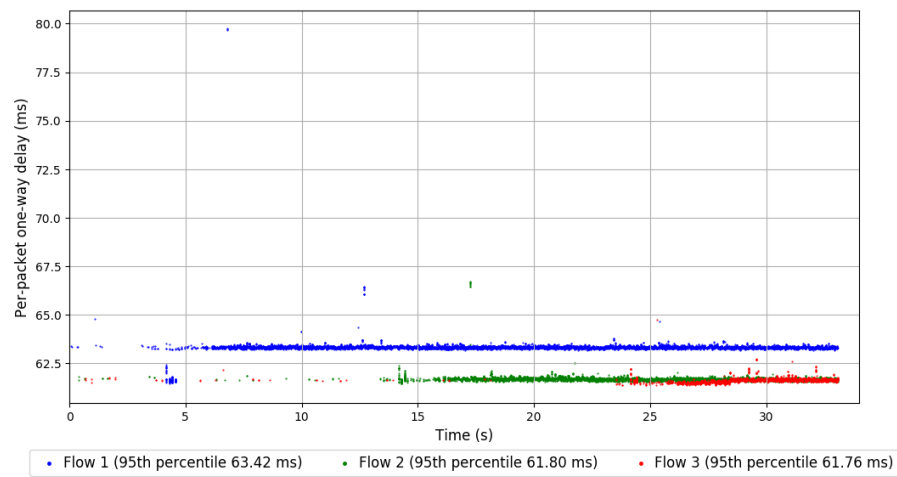
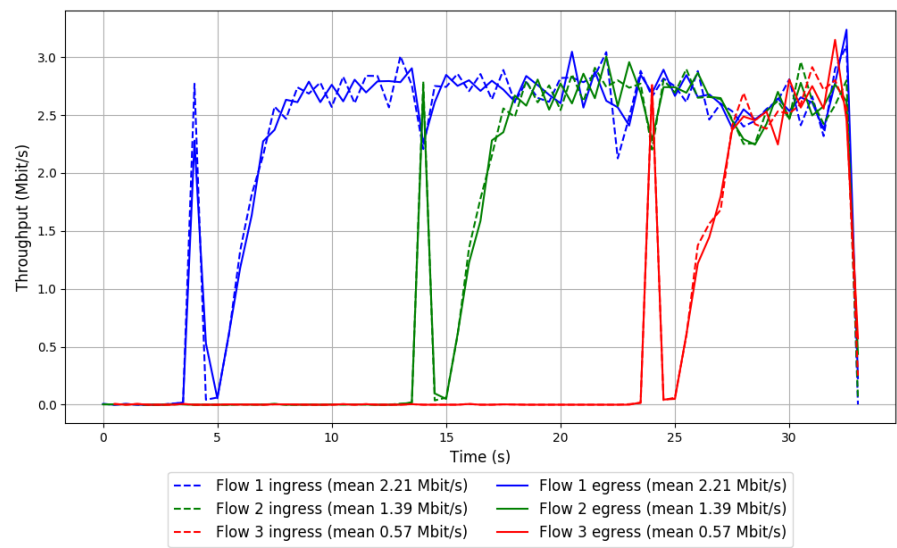
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 61.763 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-27 03:29:51

End at: 2018-01-27 03:30:21

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

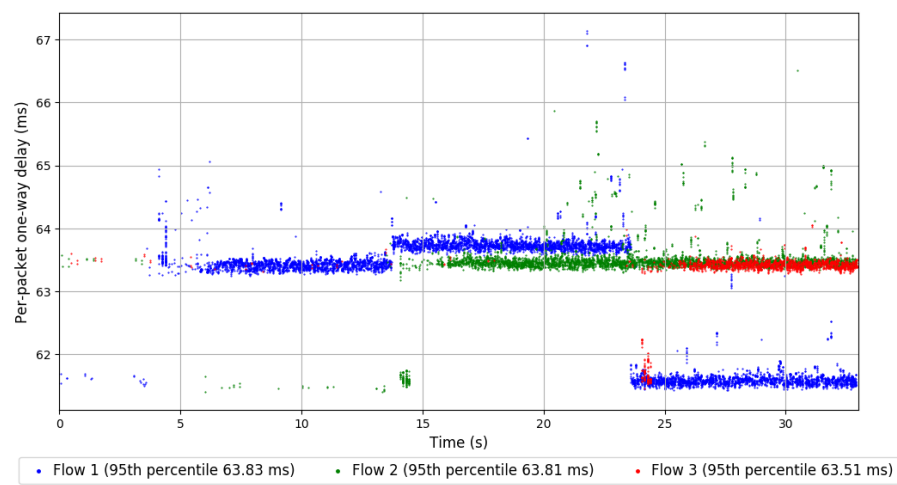
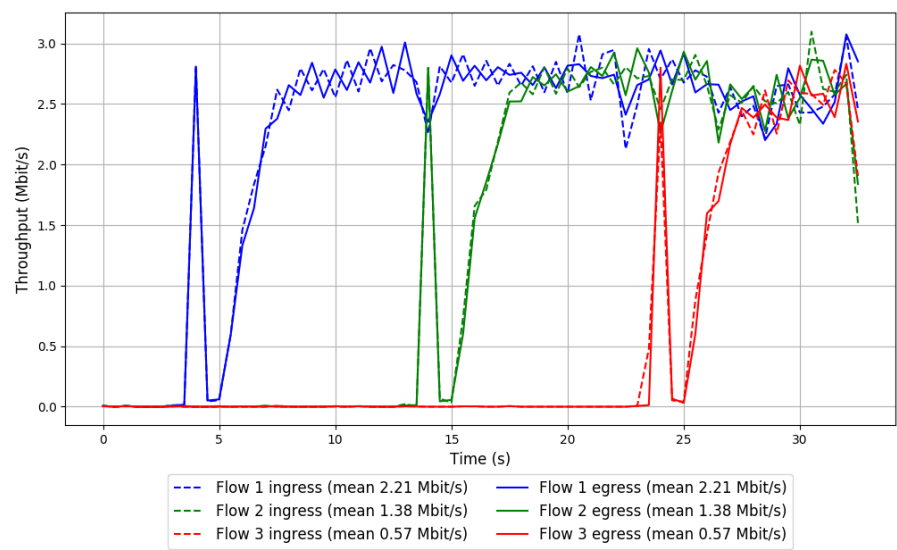
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-27 03:44:30

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

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 63.515 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.535 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 61.362 ms

Loss rate: 0.00%

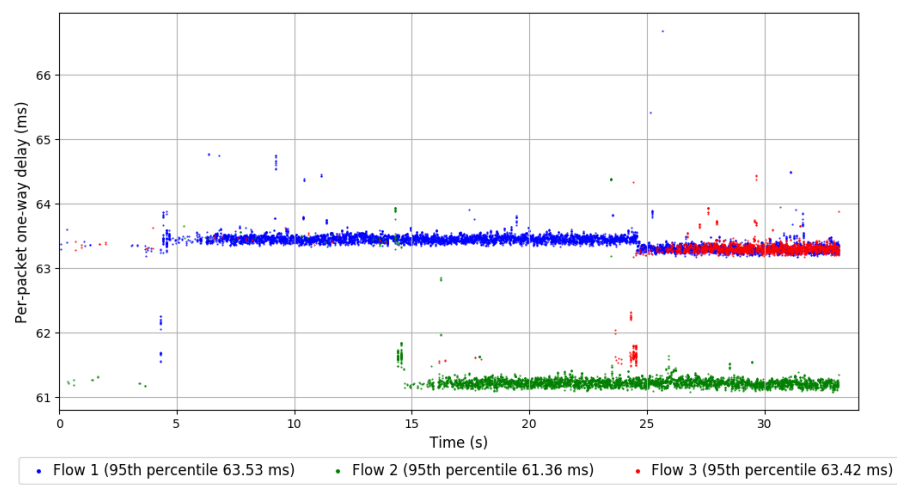
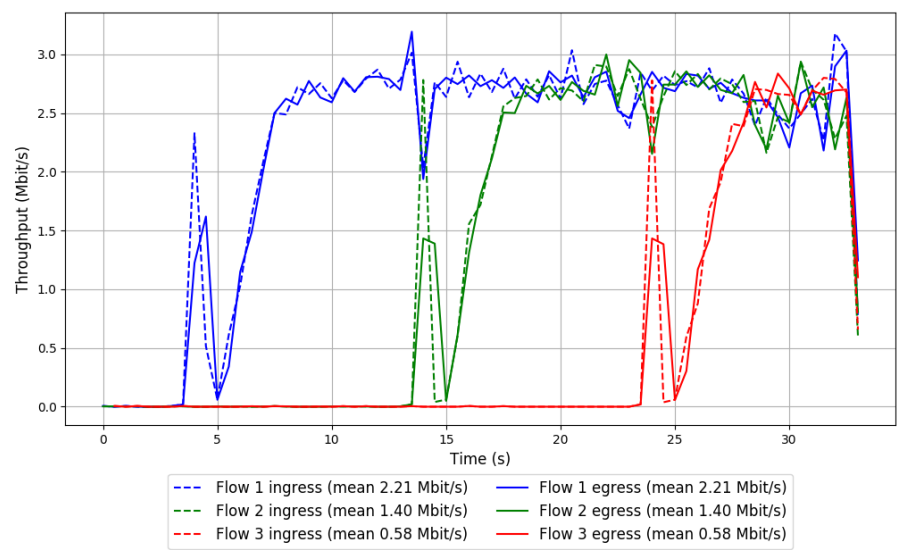
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 63.419 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-27 03:59:06

End at: 2018-01-27 03:59:36

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.822 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.543 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

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

Loss rate: 0.00%

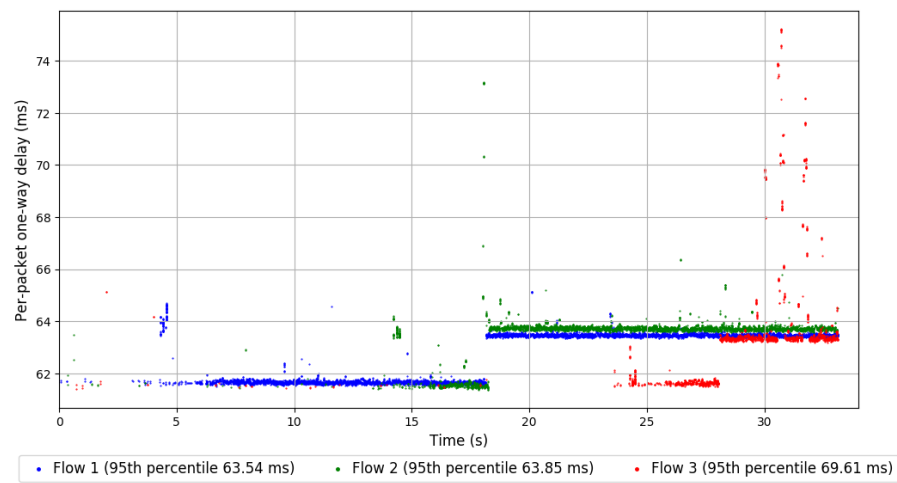
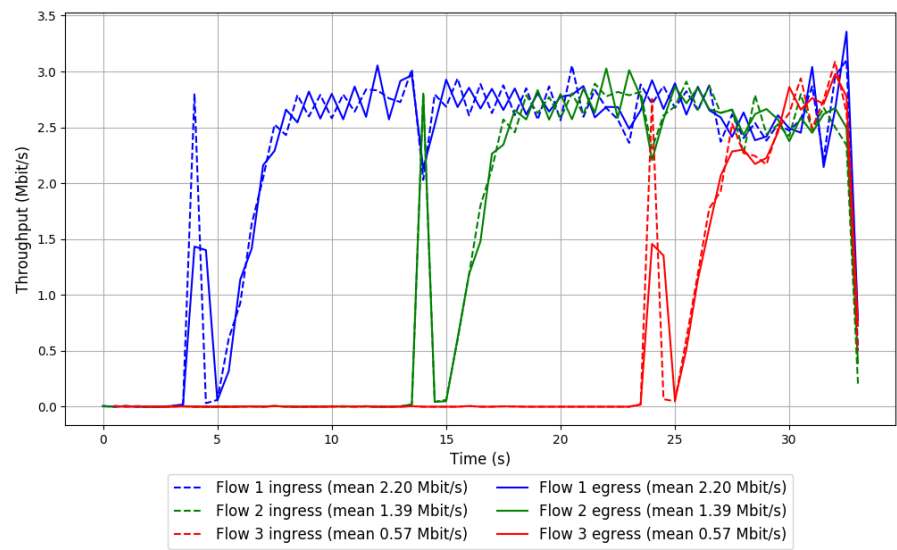
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 69.615 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-27 04:13:52

End at: 2018-01-27 04:14:22

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 61.404 ms

Loss rate: 0.00%

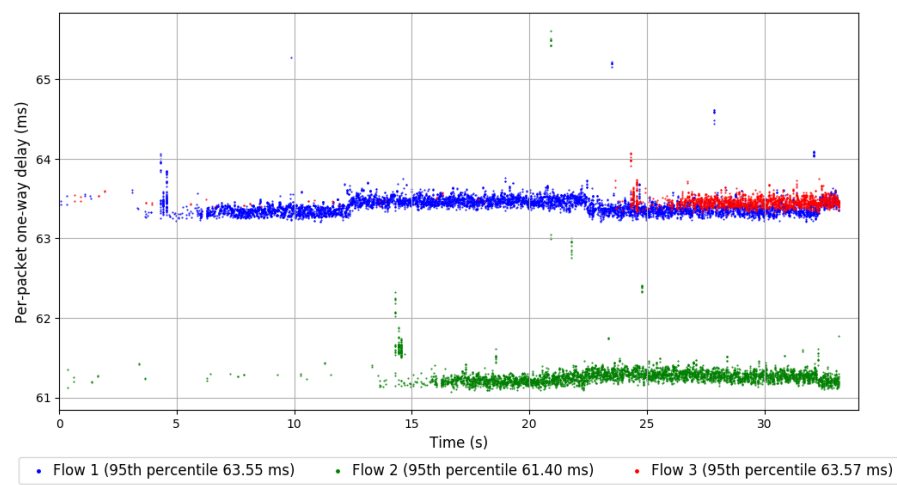
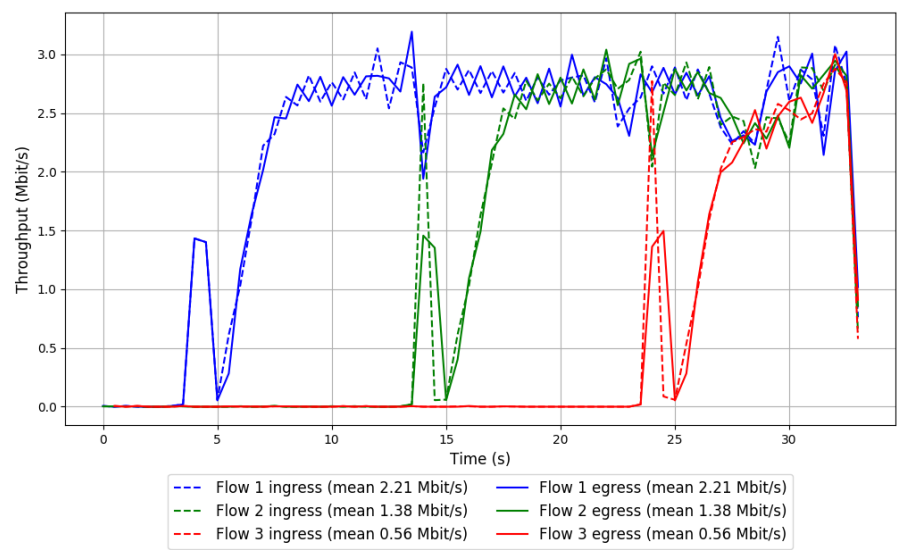
-- Flow 3:

Average throughput: 0.56 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-27 02:06:24

End at: 2018-01-27 02:06:54

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 64.325 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 64.325 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.434 ms

Loss rate: 0.11%

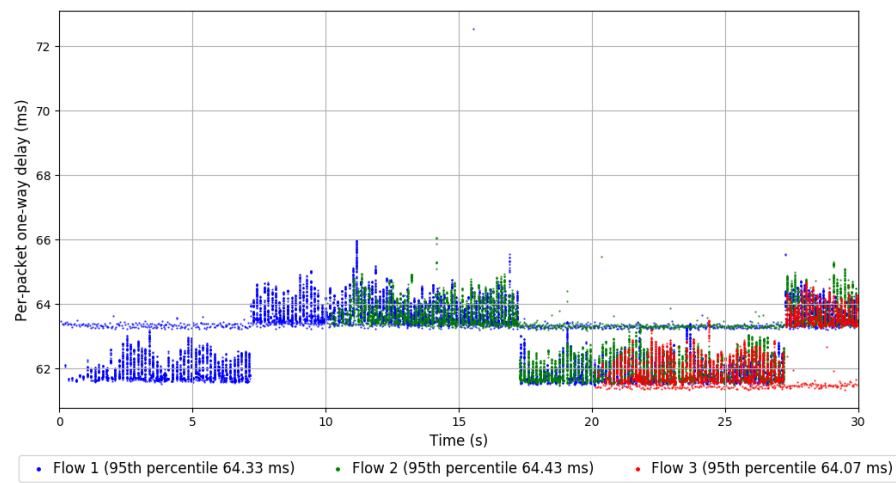
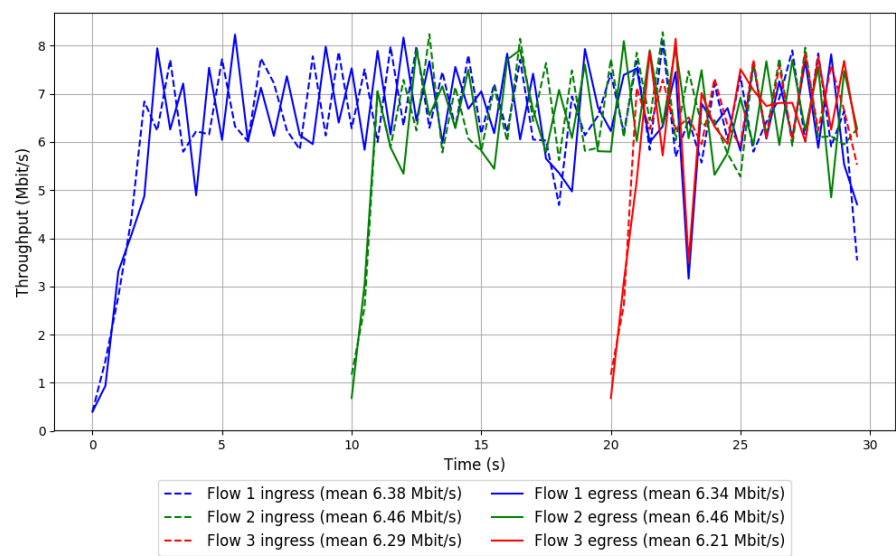
-- Flow 3:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 64.067 ms

Loss rate: 1.36%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-27 02:20:34

End at: 2018-01-27 02:21:04

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.83 Mbit/s

95th percentile per-packet one-way delay: 64.972 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 64.985 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 64.720 ms

Loss rate: 0.00%

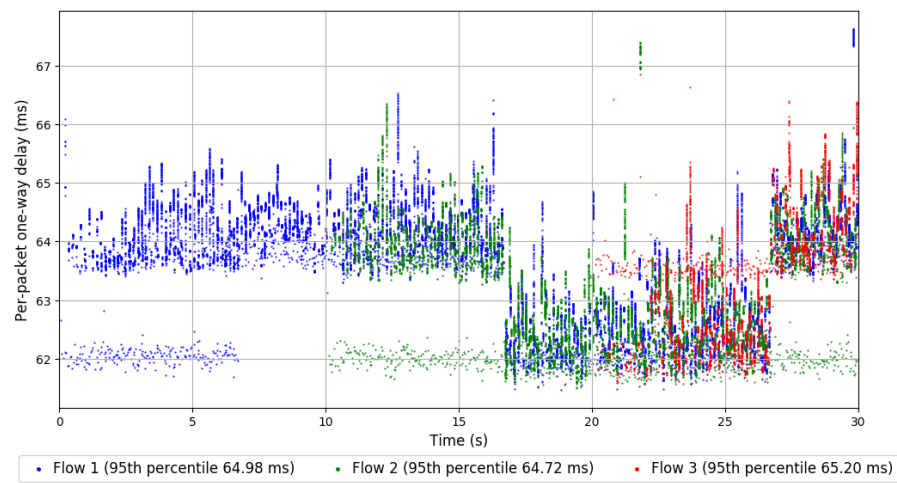
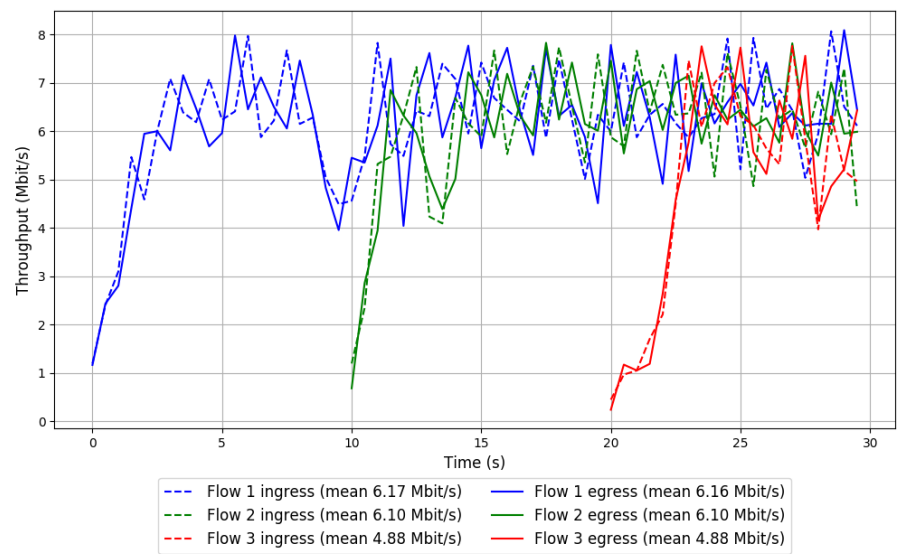
-- Flow 3:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 65.201 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-27 02:34:46

End at: 2018-01-27 02:35:16

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 64.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.697 ms

Loss rate: 0.00%

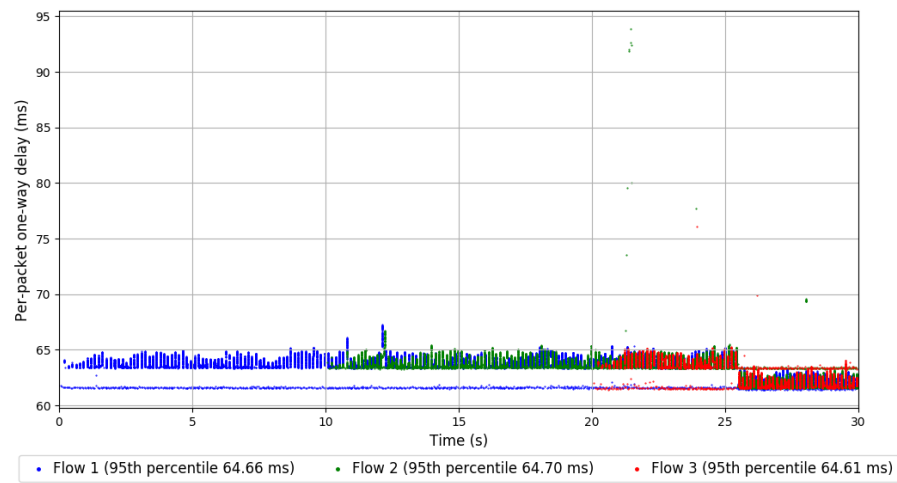
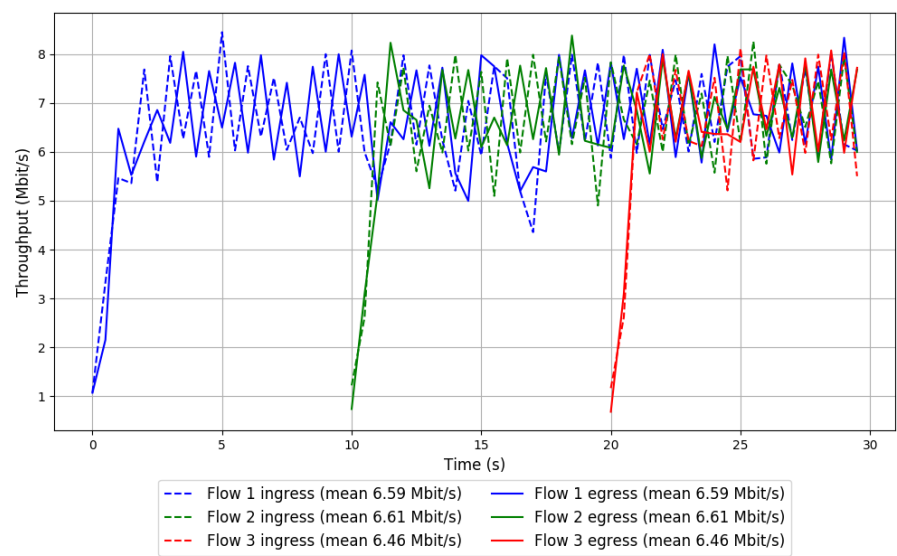
-- Flow 3:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.609 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-27 02:49:35

End at: 2018-01-27 02:50:05

Run 4: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Sprout

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

End at: 2018-01-27 03:04:33

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 63.226 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 63.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 63.262 ms

Loss rate: 0.00%

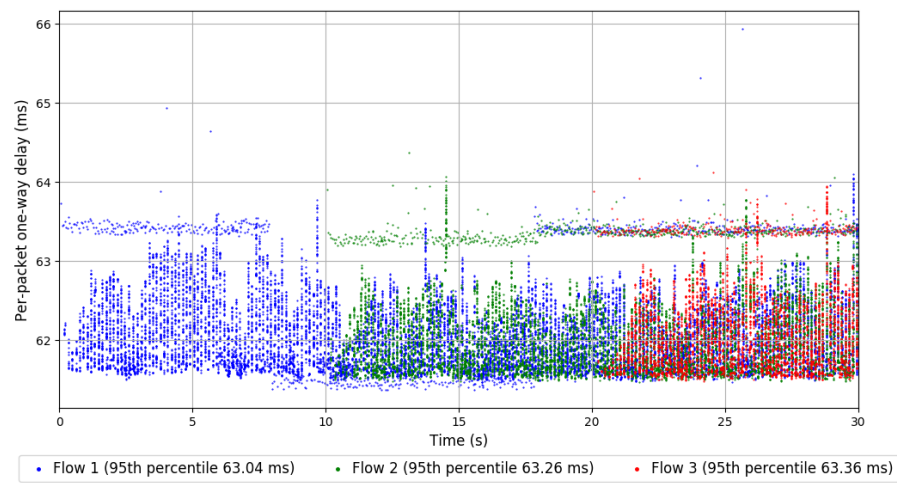
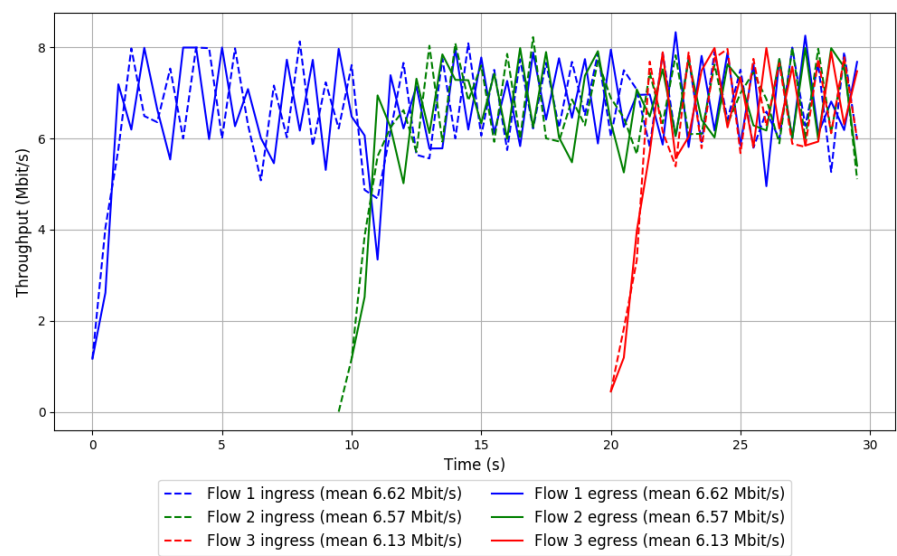
-- Flow 3:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 63.360 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-27 03:18:50

End at: 2018-01-27 03:19:20

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.80 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.358 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 0.00%

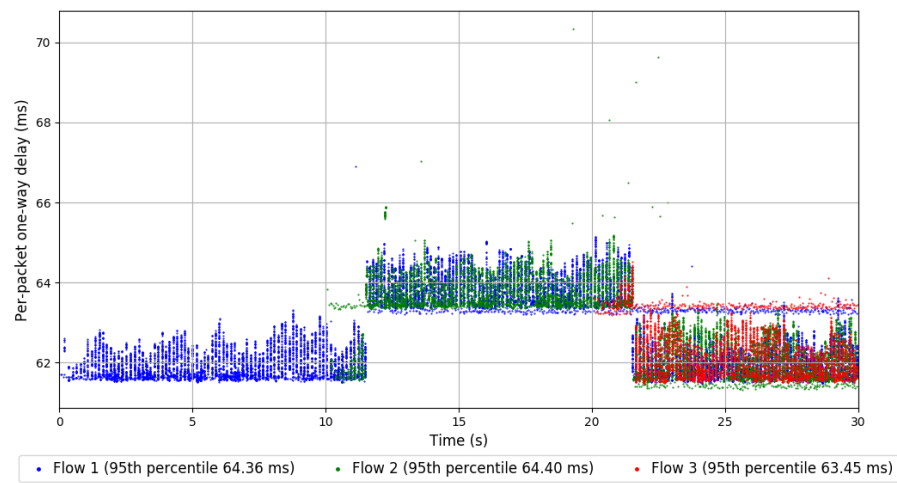
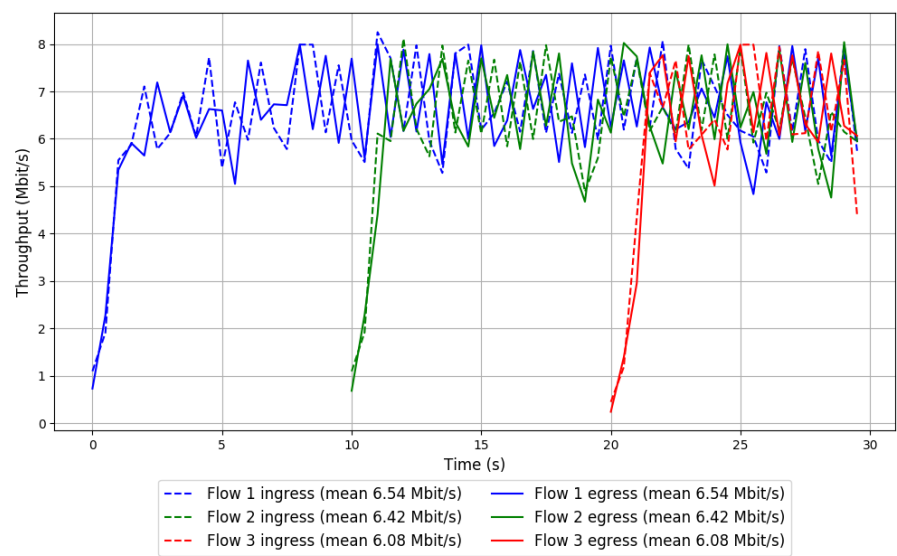
-- Flow 3:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 63.445 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-27 03:33:29

End at: 2018-01-27 03:33:59

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 64.378 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.413 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.402 ms

Loss rate: 0.00%

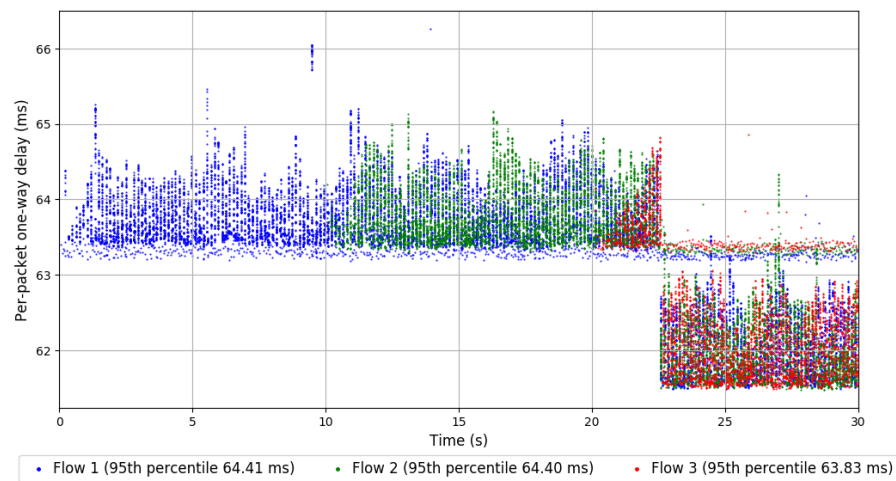
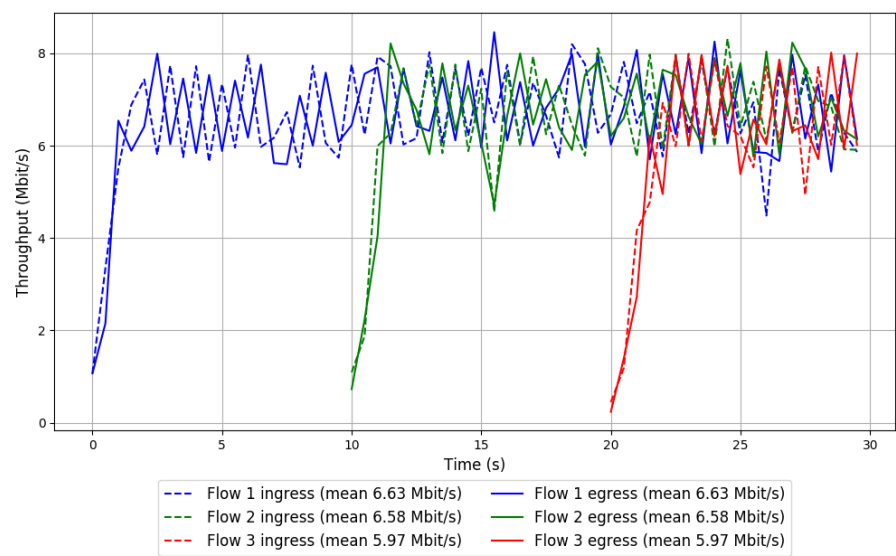
-- Flow 3:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 63.826 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-27 03:48:09

End at: 2018-01-27 03:48:39

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 64.656 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.636 ms

Loss rate: 0.00%

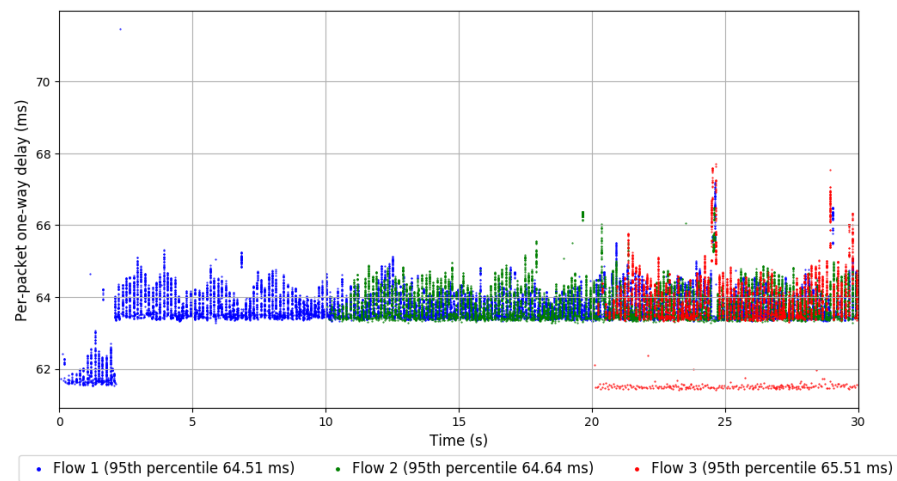
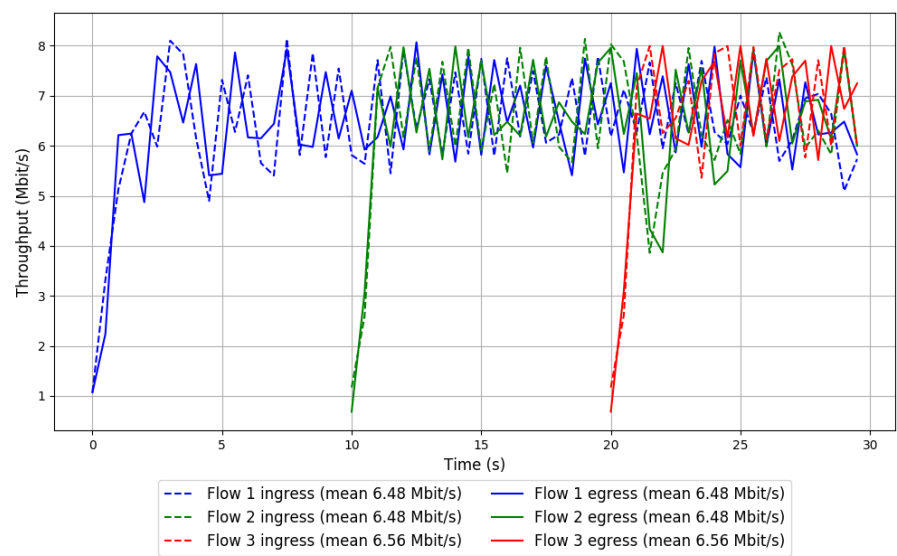
-- Flow 3:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 65.510 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-27 04:02:49

End at: 2018-01-27 04:03:19

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 62.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.60 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 62.735 ms

Loss rate: 0.00%

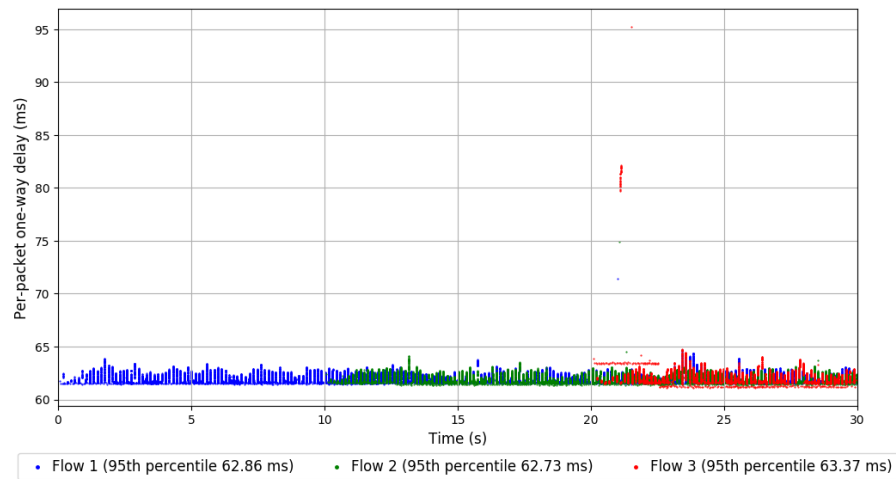
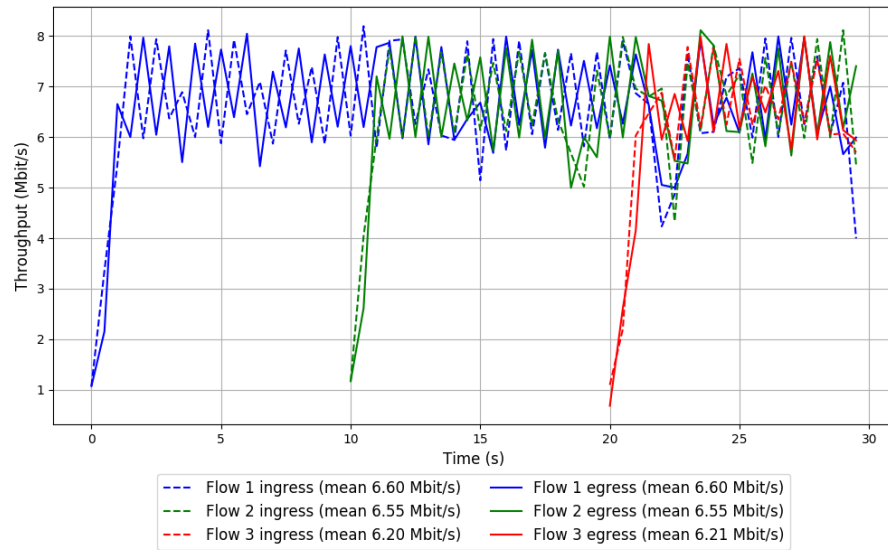
-- Flow 3:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 63.370 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-27 04:17:35

End at: 2018-01-27 04:18:05

Below is generated by plot.py at 2018-01-27 06:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 64.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.355 ms

Loss rate: 0.00%

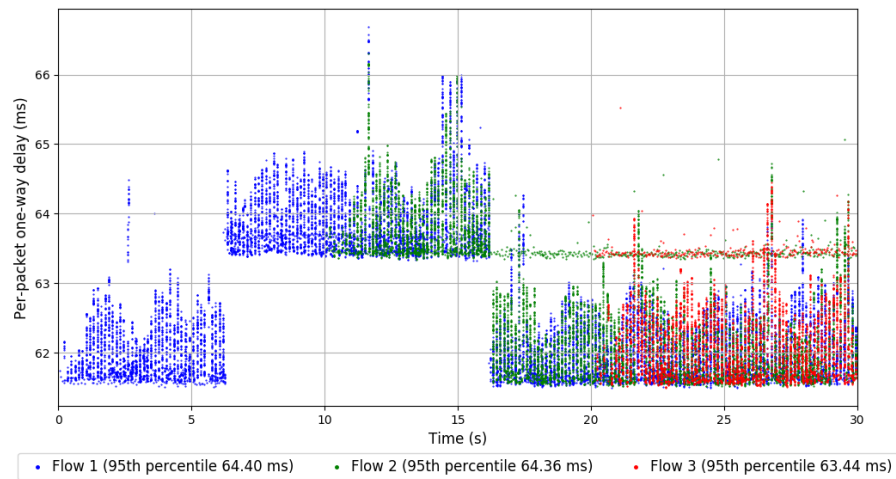
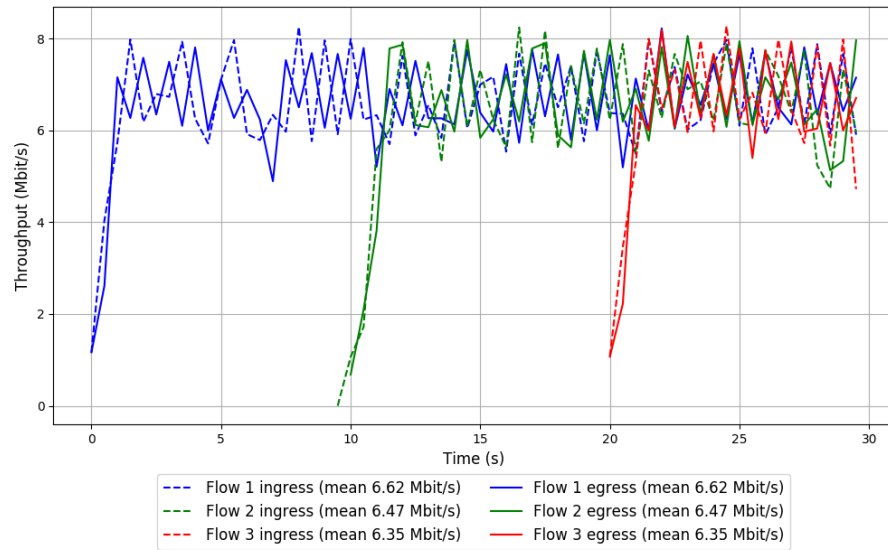
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 63.441 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

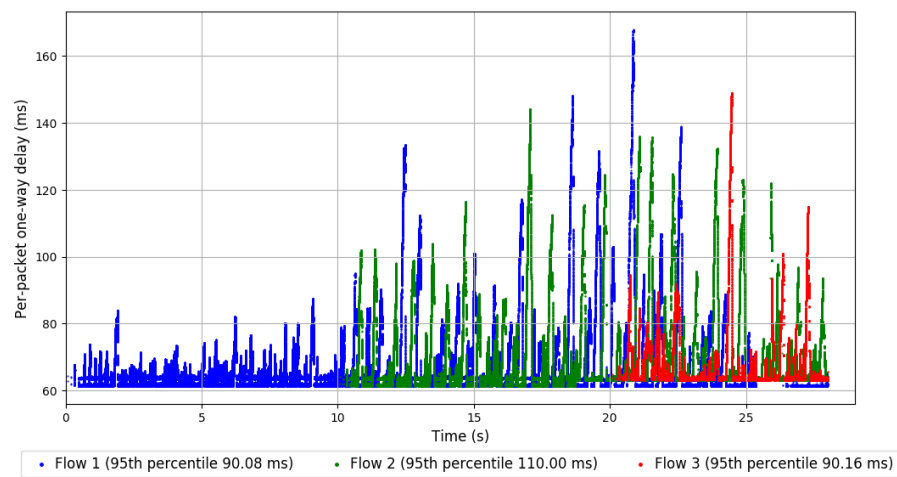
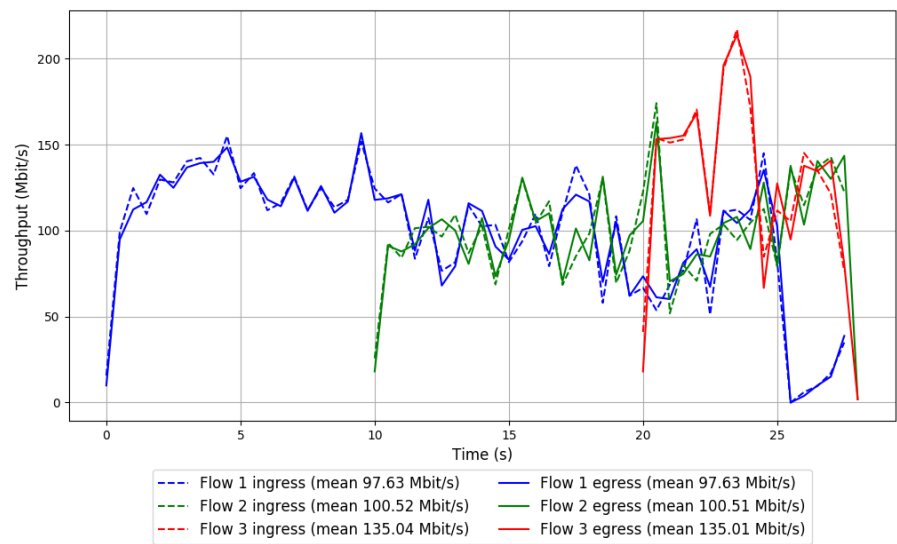


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-27 02:13:30
End at: 2018-01-27 02:14:00

# Below is generated by plot.py at 2018-01-27 06:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 200.40 Mbit/s
95th percentile per-packet one-way delay: 99.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.63 Mbit/s
95th percentile per-packet one-way delay: 90.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 100.51 Mbit/s
95th percentile per-packet one-way delay: 110.005 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.01 Mbit/s
95th percentile per-packet one-way delay: 90.156 ms
Loss rate: 0.01%
```


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

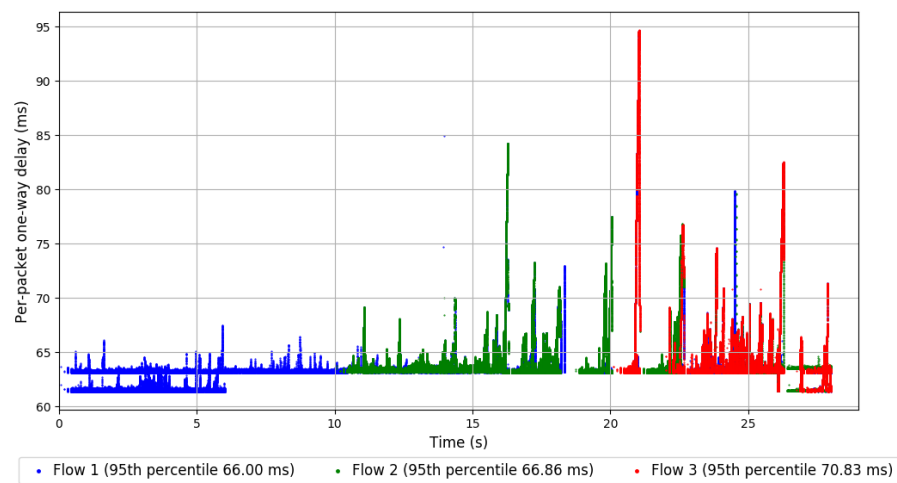
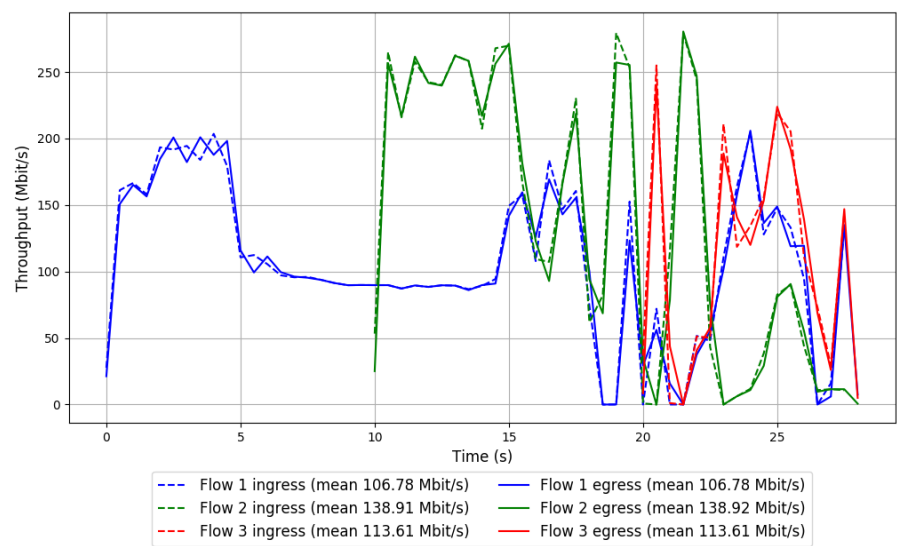


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-27 02:27:33
End at: 2018-01-27 02:28:03

# Below is generated by plot.py at 2018-01-27 06:16:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.08 Mbit/s
95th percentile per-packet one-way delay: 66.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.78 Mbit/s
95th percentile per-packet one-way delay: 66.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.92 Mbit/s
95th percentile per-packet one-way delay: 66.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.61 Mbit/s
95th percentile per-packet one-way delay: 70.829 ms
Loss rate: 0.00%
```

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

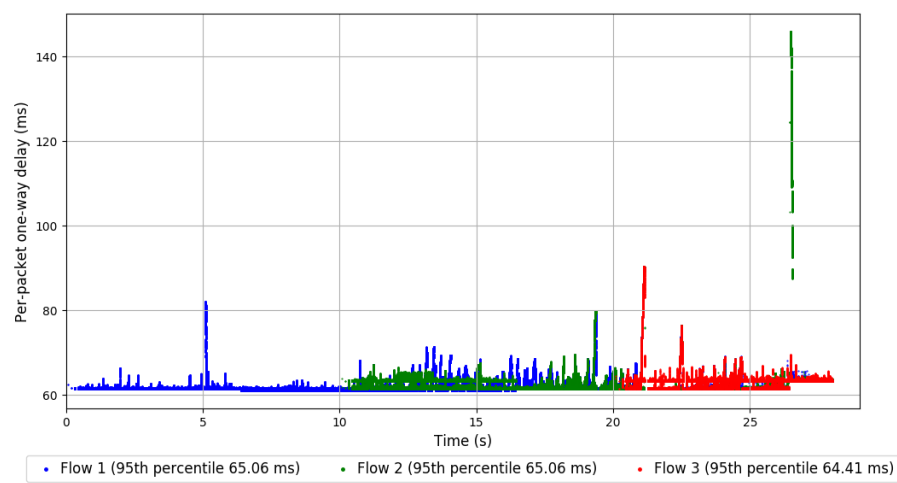
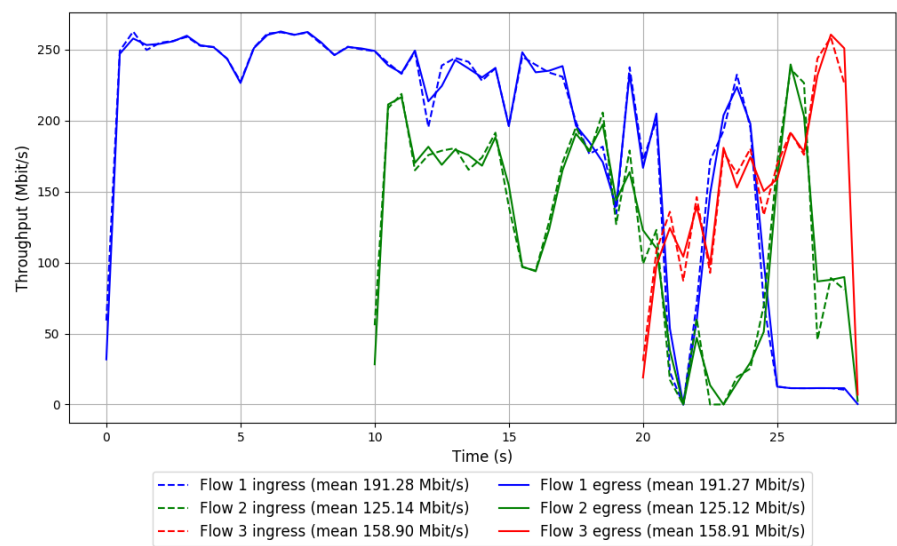


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-27 02:42:03
End at: 2018-01-27 02:42:33

# Below is generated by plot.py at 2018-01-27 06:18:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.67 Mbit/s
95th percentile per-packet one-way delay: 64.999 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.27 Mbit/s
95th percentile per-packet one-way delay: 65.059 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.12 Mbit/s
95th percentile per-packet one-way delay: 65.061 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.91 Mbit/s
95th percentile per-packet one-way delay: 64.412 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-27 02:56:38

End at: 2018-01-27 02:57:08

Below is generated by plot.py at 2018-01-27 06:19:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.44 Mbit/s

95th percentile per-packet one-way delay: 64.328 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 199.73 Mbit/s

95th percentile per-packet one-way delay: 64.478 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.46 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.00%

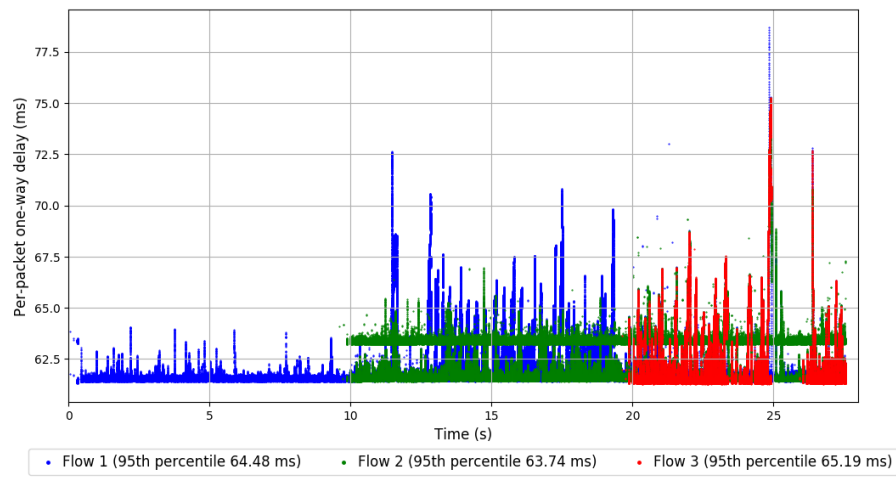
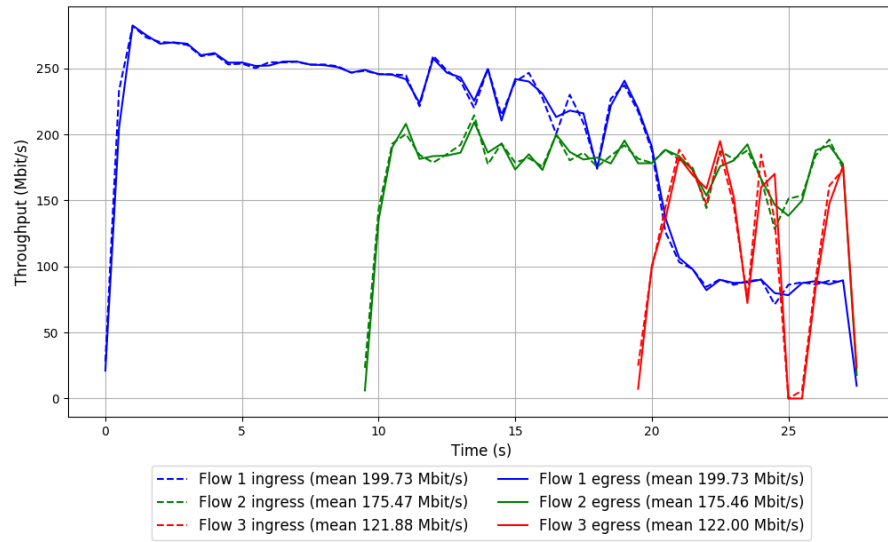
-- Flow 3:

Average throughput: 122.00 Mbit/s

95th percentile per-packet one-way delay: 65.195 ms

Loss rate: 0.00%

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

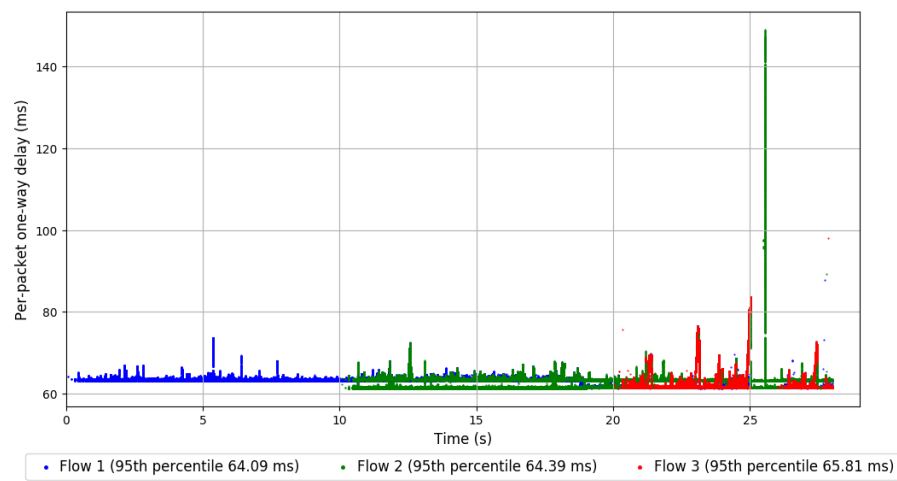
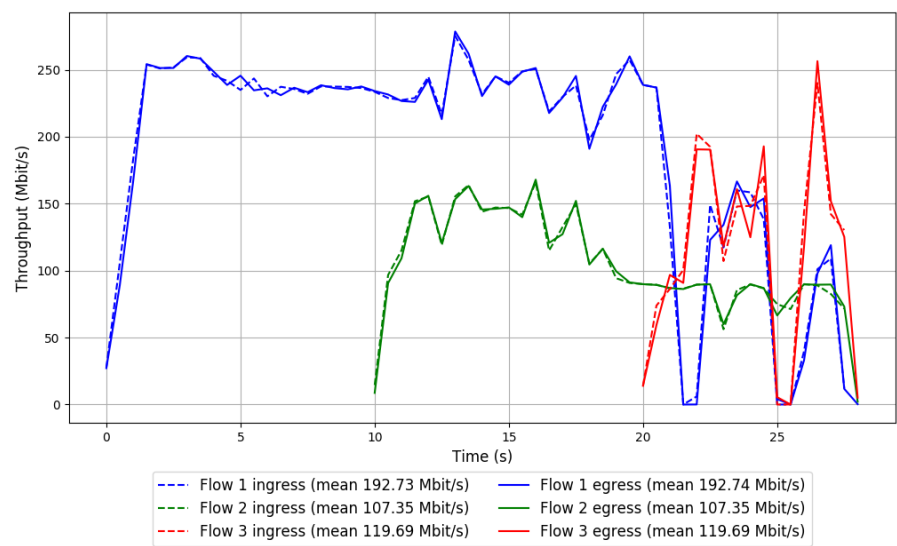


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-27 03:11:20
End at: 2018-01-27 03:11:50

# Below is generated by plot.py at 2018-01-27 06:19:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.61 Mbit/s
95th percentile per-packet one-way delay: 64.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.74 Mbit/s
95th percentile per-packet one-way delay: 64.089 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 107.35 Mbit/s
95th percentile per-packet one-way delay: 64.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.69 Mbit/s
95th percentile per-packet one-way delay: 65.810 ms
Loss rate: 0.00%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-27 03:26:16

End at: 2018-01-27 03:26:46

Below is generated by plot.py at 2018-01-27 06:19:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.85 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 63.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.89 Mbit/s

95th percentile per-packet one-way delay: 63.496 ms

Loss rate: 0.00%

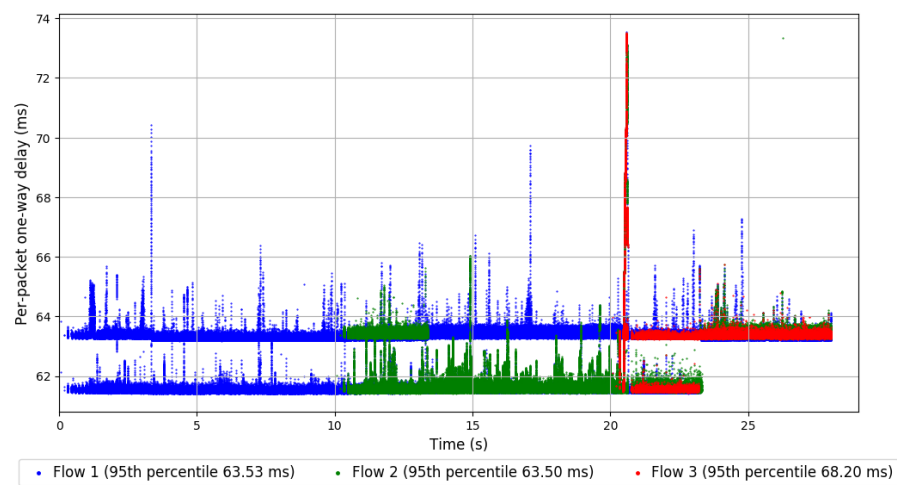
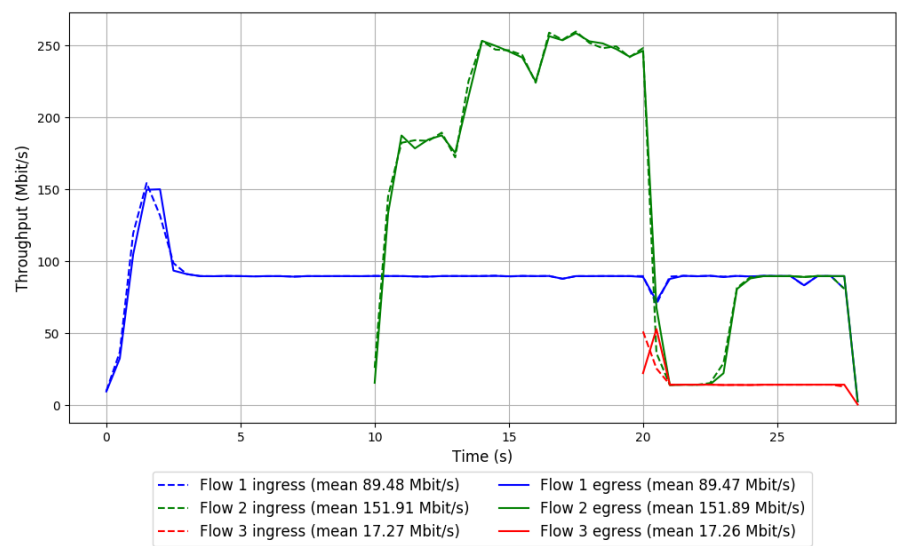
-- Flow 3:

Average throughput: 17.26 Mbit/s

95th percentile per-packet one-way delay: 68.205 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-27 03:40:45

End at: 2018-01-27 03:41:15

Below is generated by plot.py at 2018-01-27 06:23:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.27 Mbit/s

95th percentile per-packet one-way delay: 68.122 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 146.71 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 64.125 ms

Loss rate: 0.00%

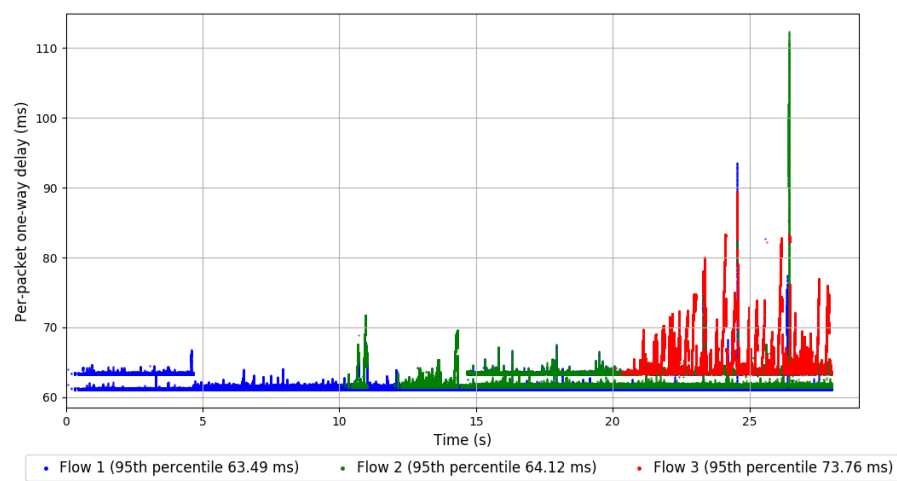
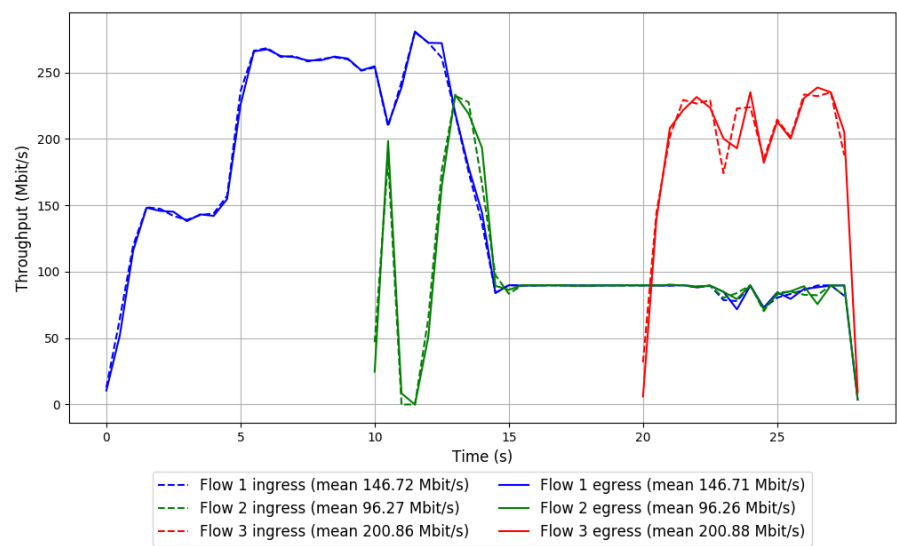
-- Flow 3:

Average throughput: 200.88 Mbit/s

95th percentile per-packet one-way delay: 73.760 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-27 03:55:25

End at: 2018-01-27 03:55:55

Below is generated by plot.py at 2018-01-27 06:23:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.03 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.62 Mbit/s

95th percentile per-packet one-way delay: 63.756 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.21 Mbit/s

95th percentile per-packet one-way delay: 65.233 ms

Loss rate: 0.00%

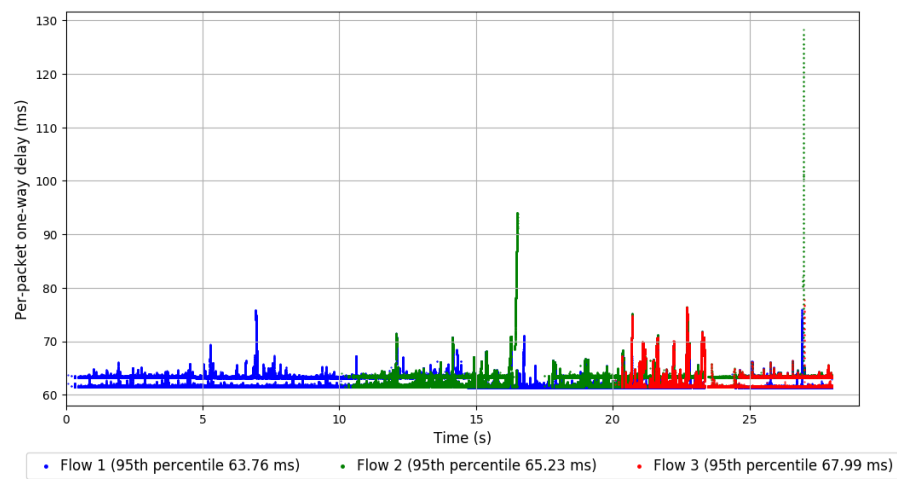
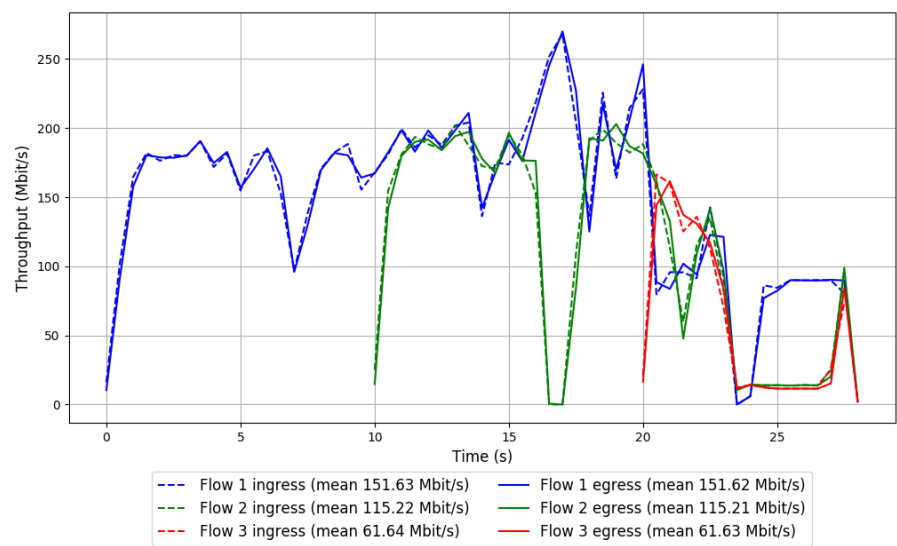
-- Flow 3:

Average throughput: 61.63 Mbit/s

95th percentile per-packet one-way delay: 67.992 ms

Loss rate: 0.00%

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

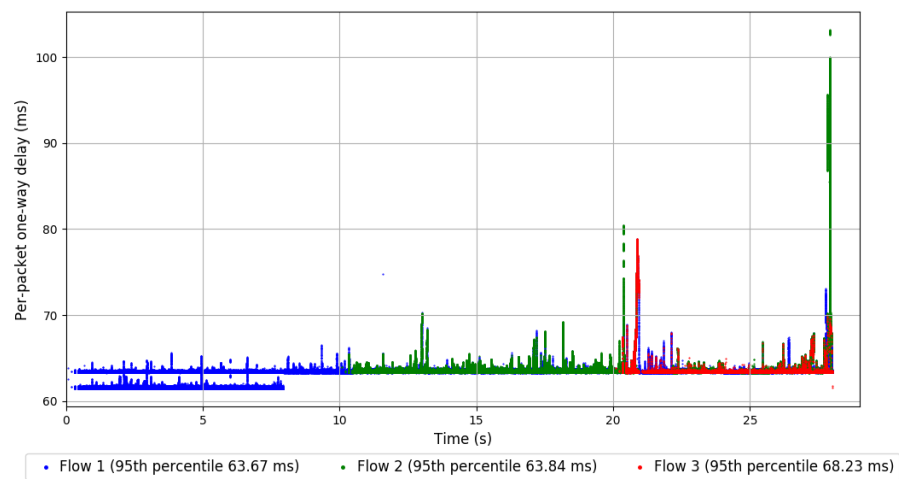
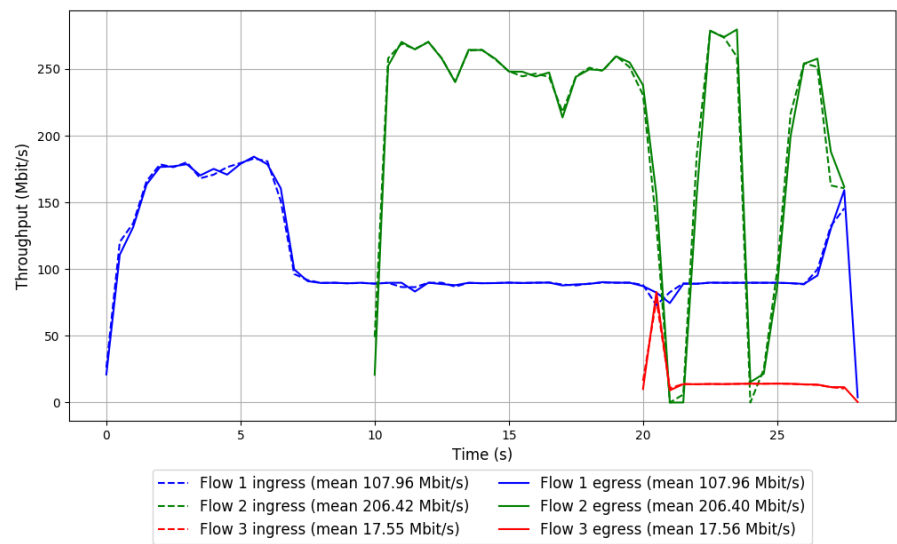


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-27 04:10:11
End at: 2018-01-27 04:10:41

# Below is generated by plot.py at 2018-01-27 06:23:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.03 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.96 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.40 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.56 Mbit/s
95th percentile per-packet one-way delay: 68.226 ms
Loss rate: 0.00%
```


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

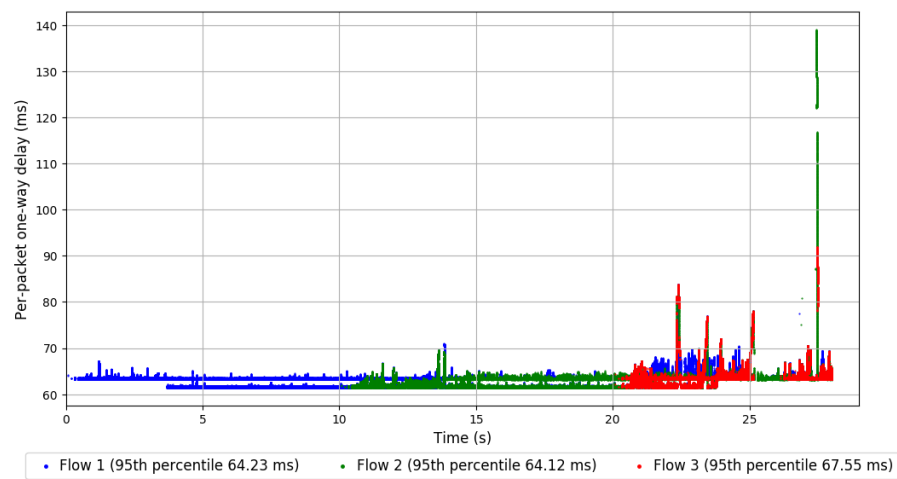
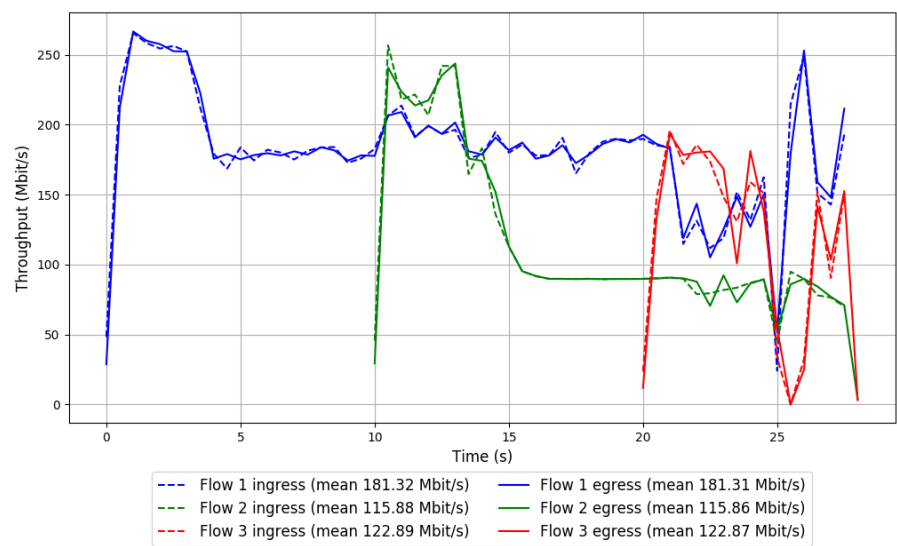


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-27 04:24:46
End at: 2018-01-27 04:25:16

# Below is generated by plot.py at 2018-01-27 06:25:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.32 Mbit/s
95th percentile per-packet one-way delay: 64.531 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.31 Mbit/s
95th percentile per-packet one-way delay: 64.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 115.86 Mbit/s
95th percentile per-packet one-way delay: 64.125 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.87 Mbit/s
95th percentile per-packet one-way delay: 67.552 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2018-01-27 02:04:01

Below is generated by plot.py at 2018-01-27 06:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 69.536 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 66.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.39 Mbit/s

95th percentile per-packet one-way delay: 69.994 ms

Loss rate: 0.00%

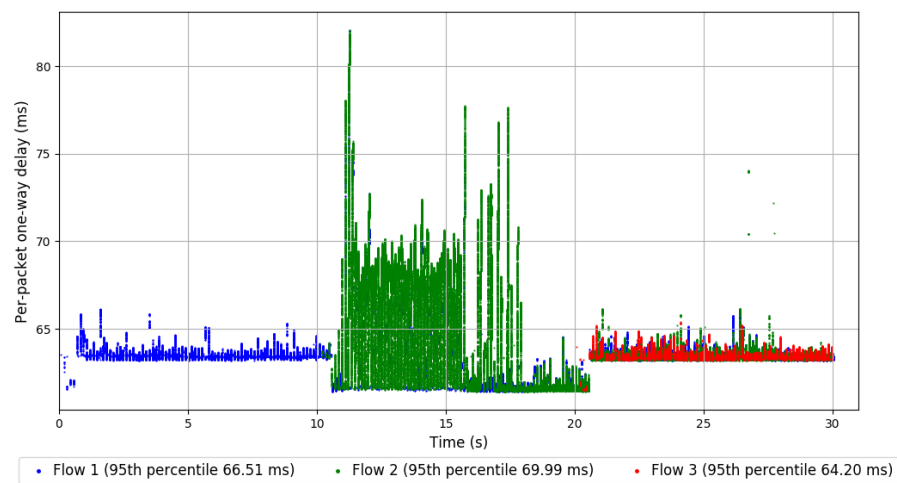
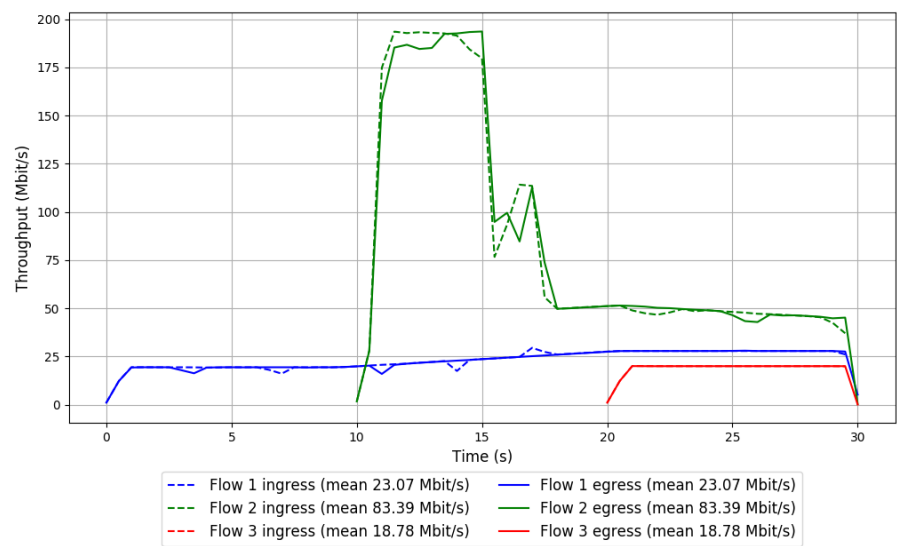
-- Flow 3:

Average throughput: 18.78 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-27 02:17:44

End at: 2018-01-27 02:18:14

Below is generated by plot.py at 2018-01-27 06:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 66.047 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 65.279 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 25.92 Mbit/s

95th percentile per-packet one-way delay: 66.964 ms

Loss rate: 0.02%

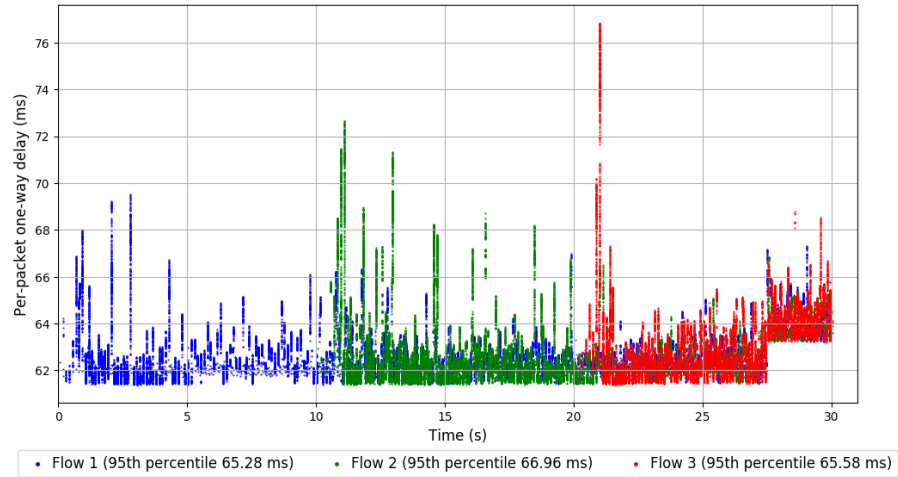
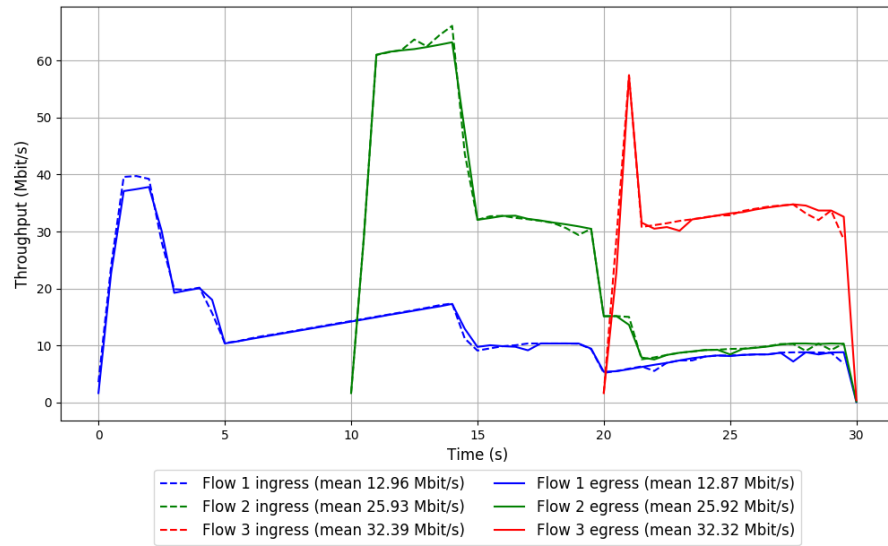
-- Flow 3:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 65.575 ms

Loss rate: 0.20%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-27 02:31:51

End at: 2018-01-27 02:32:21

Below is generated by plot.py at 2018-01-27 06:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.65 Mbit/s

95th percentile per-packet one-way delay: 69.551 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 66.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 71.097 ms

Loss rate: 0.00%

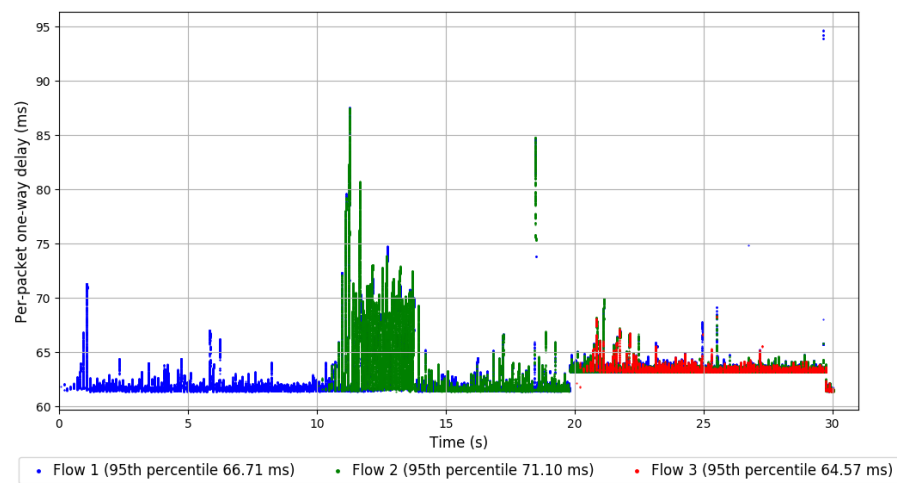
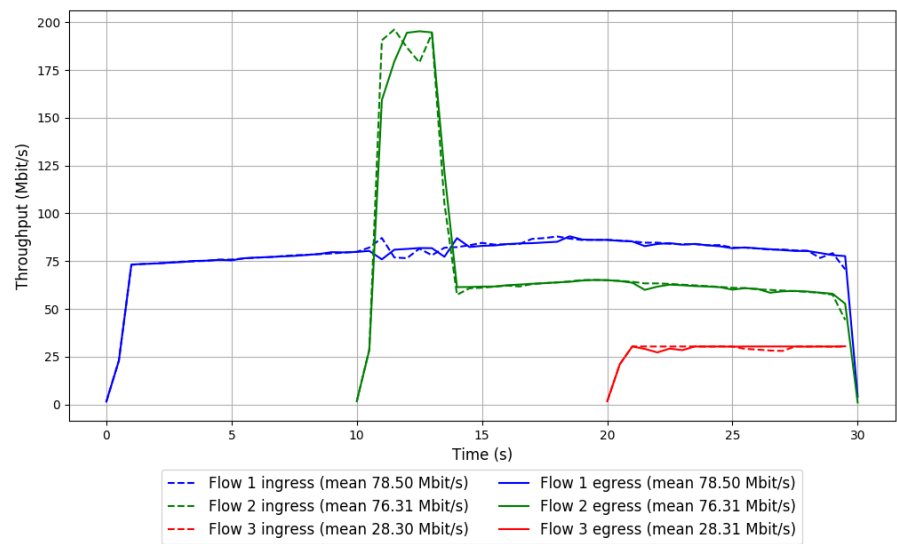
-- Flow 3:

Average throughput: 28.31 Mbit/s

95th percentile per-packet one-way delay: 64.571 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-27 02:46:27

End at: 2018-01-27 02:46:57

Below is generated by plot.py at 2018-01-27 06:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.10 Mbit/s

95th percentile per-packet one-way delay: 71.439 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.21 Mbit/s

95th percentile per-packet one-way delay: 67.658 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.99 Mbit/s

95th percentile per-packet one-way delay: 68.748 ms

Loss rate: 0.00%

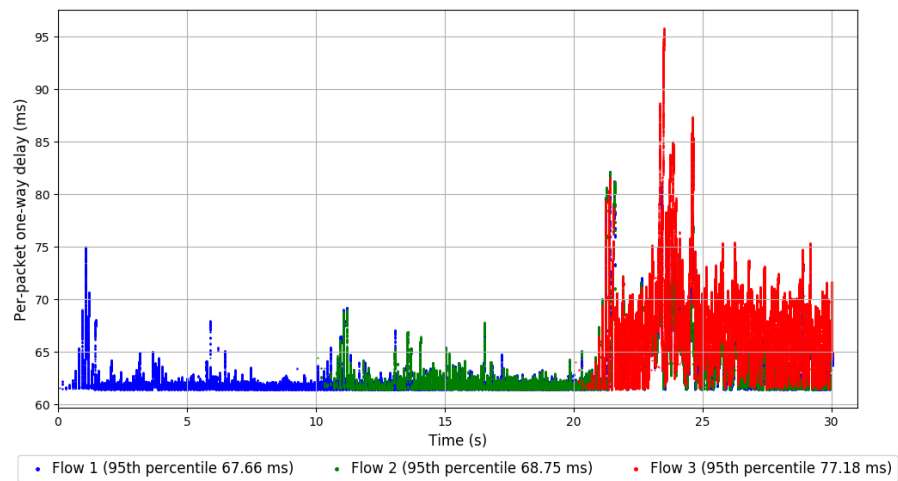
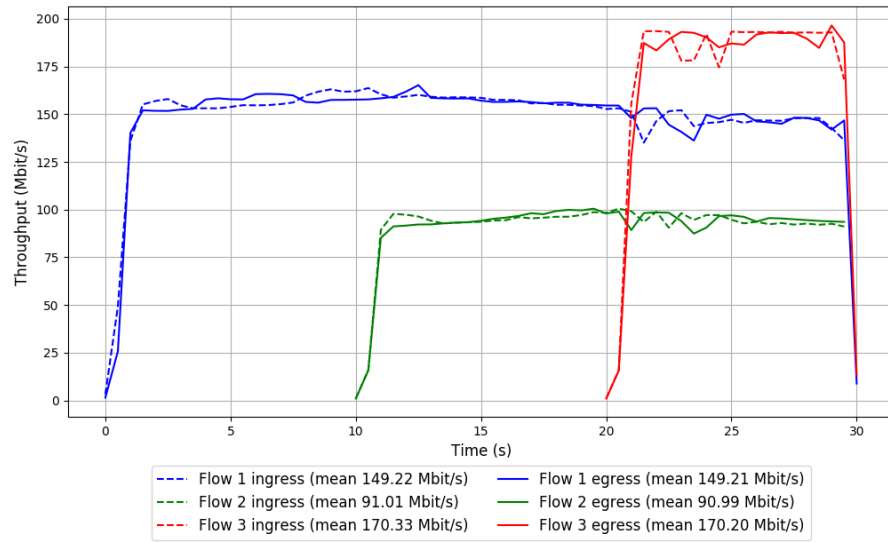
-- Flow 3:

Average throughput: 170.20 Mbit/s

95th percentile per-packet one-way delay: 77.178 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-27 03:01:08

End at: 2018-01-27 03:01:38

Below is generated by plot.py at 2018-01-27 06:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 194.61 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 65.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.57 Mbit/s

95th percentile per-packet one-way delay: 62.908 ms

Loss rate: 0.00%

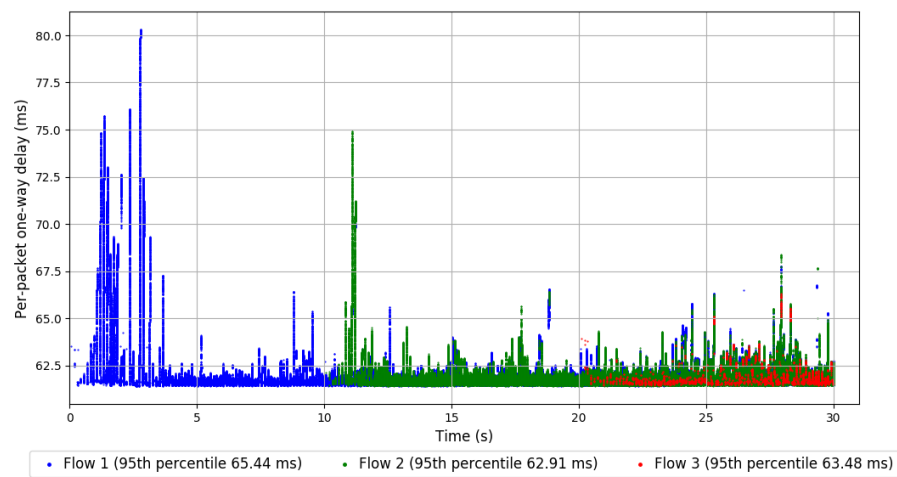
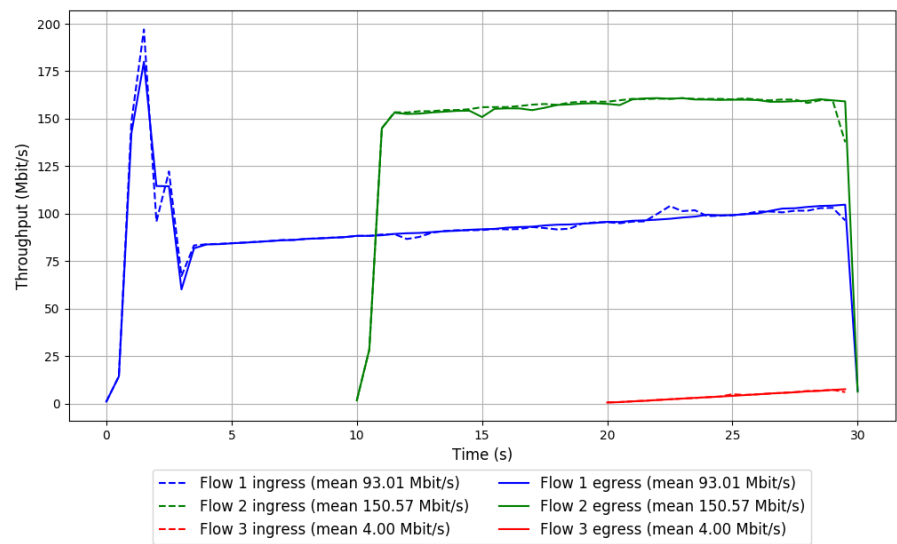
-- Flow 3:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 0.12%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-27 03:15:47

End at: 2018-01-27 03:16:17

Below is generated by plot.py at 2018-01-27 06:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.41 Mbit/s

95th percentile per-packet one-way delay: 71.565 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 122.20 Mbit/s

95th percentile per-packet one-way delay: 69.479 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.98 Mbit/s

95th percentile per-packet one-way delay: 70.157 ms

Loss rate: 0.00%

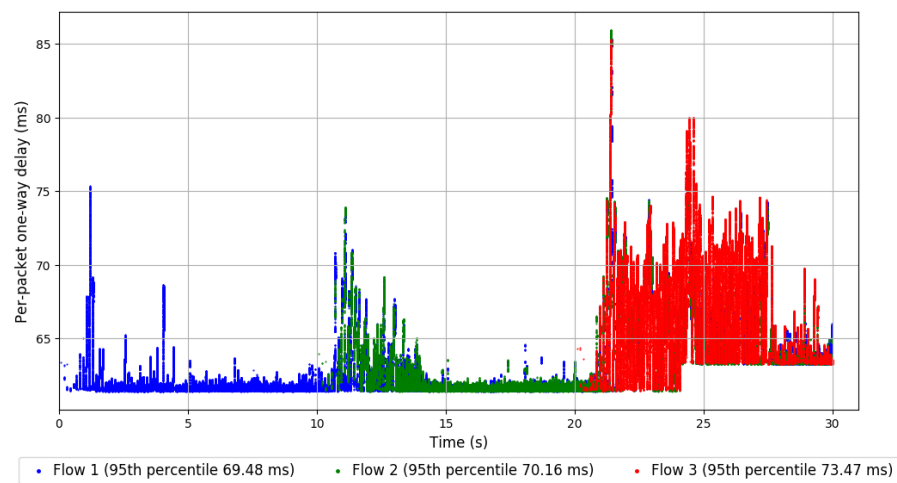
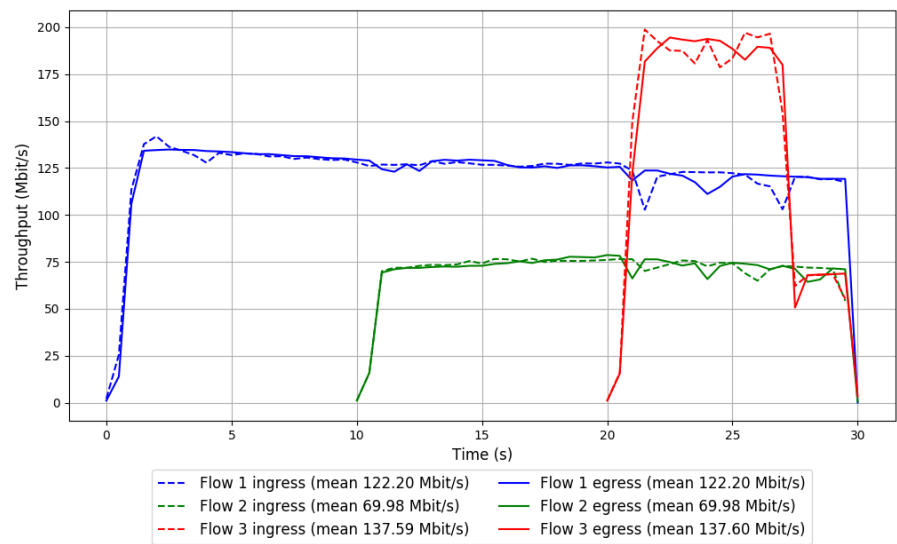
-- Flow 3:

Average throughput: 137.60 Mbit/s

95th percentile per-packet one-way delay: 73.475 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-27 03:30:32

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

Below is generated by plot.py at 2018-01-27 06:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.08 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.62 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.72 Mbit/s

95th percentile per-packet one-way delay: 63.950 ms

Loss rate: 0.00%

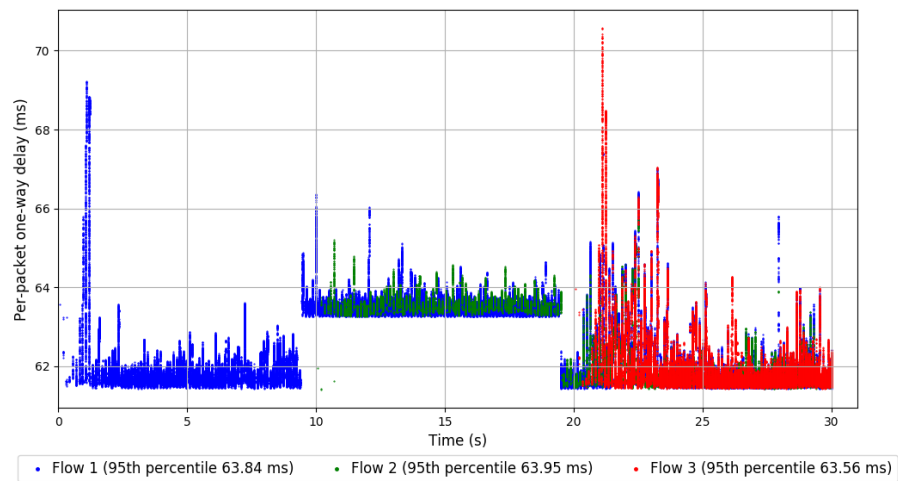
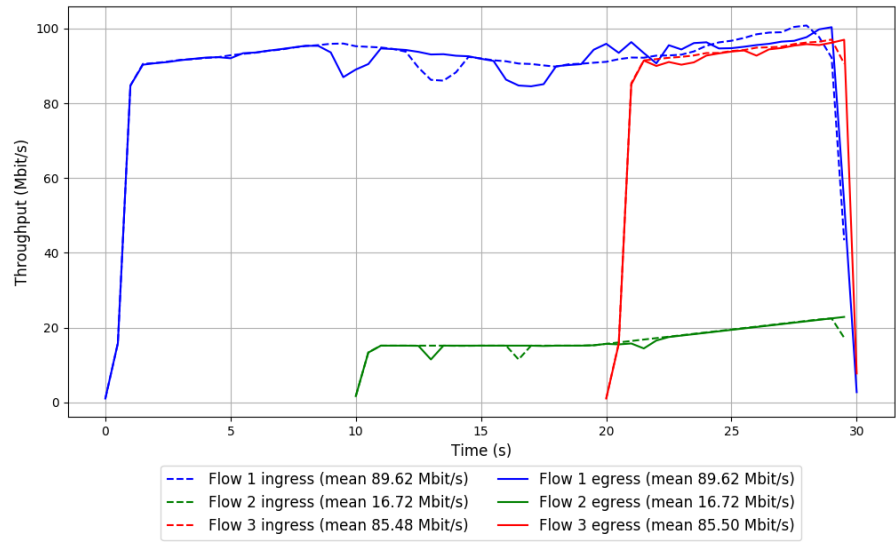
-- Flow 3:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-27 03:45:11

End at: 2018-01-27 03:45:41

Below is generated by plot.py at 2018-01-27 06:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.00 Mbit/s

95th percentile per-packet one-way delay: 73.620 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.25 Mbit/s

95th percentile per-packet one-way delay: 70.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.13 Mbit/s

95th percentile per-packet one-way delay: 74.298 ms

Loss rate: 0.00%

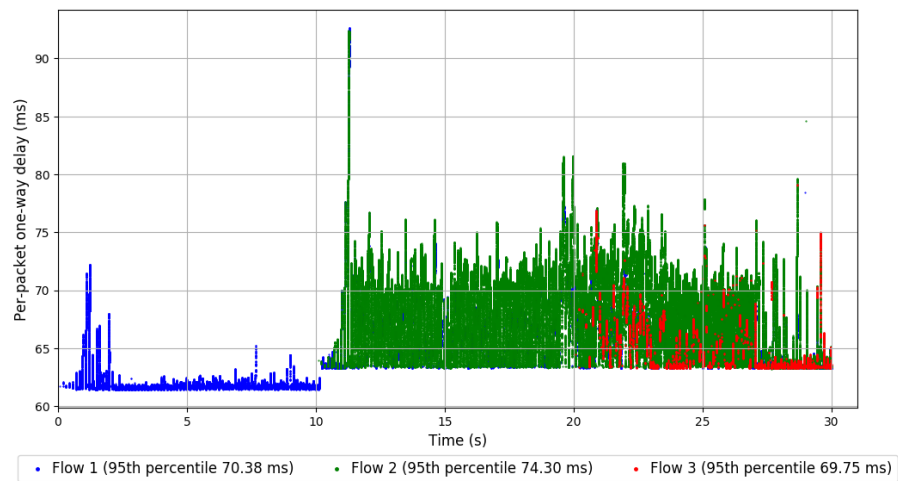
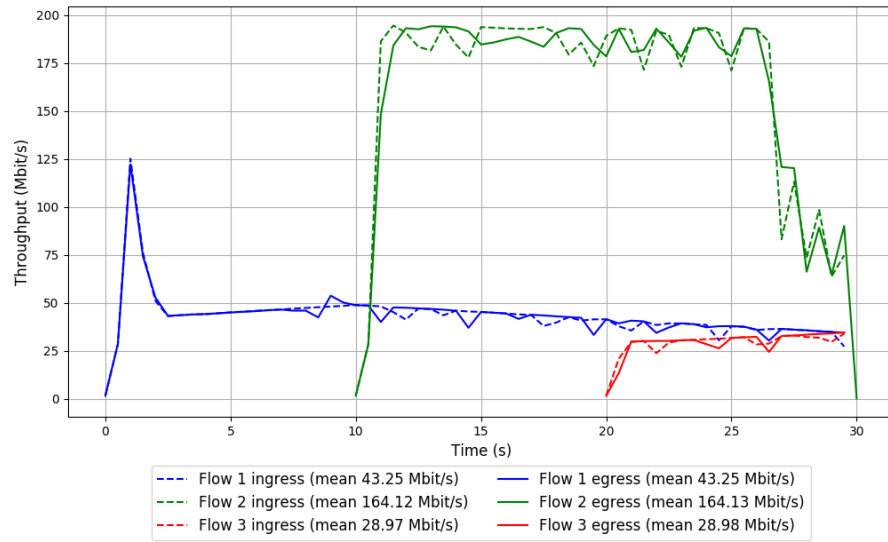
-- Flow 3:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 69.752 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-27 03:59:47

End at: 2018-01-27 04:00:17

Below is generated by plot.py at 2018-01-27 06:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.29 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.09 Mbit/s

95th percentile per-packet one-way delay: 67.144 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.96 Mbit/s

95th percentile per-packet one-way delay: 71.761 ms

Loss rate: 0.00%

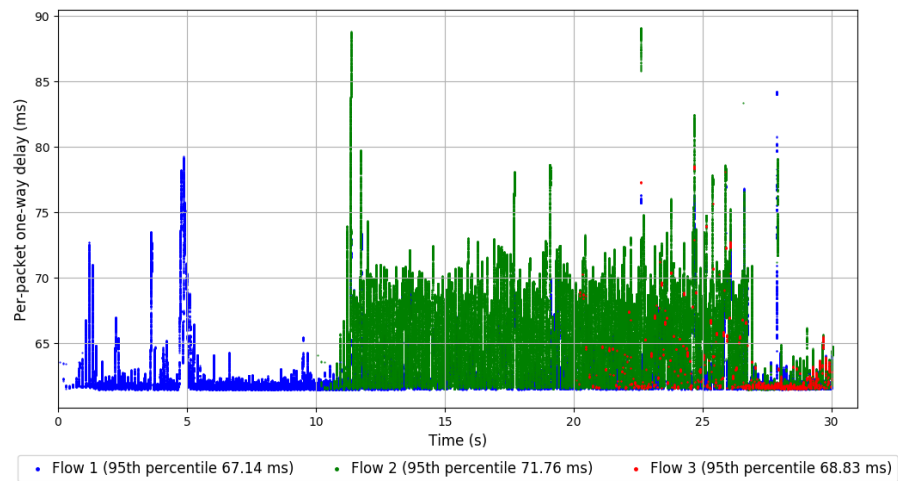
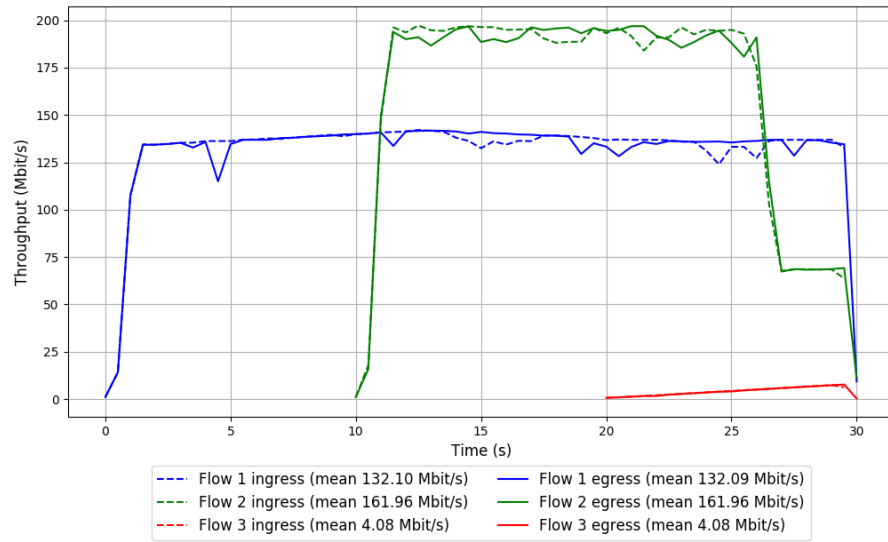
-- Flow 3:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 68.828 ms

Loss rate: 0.12%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-27 04:14:33

End at: 2018-01-27 04:15:03

Below is generated by plot.py at 2018-01-27 06:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.56 Mbit/s

95th percentile per-packet one-way delay: 69.878 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 107.71 Mbit/s

95th percentile per-packet one-way delay: 67.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 69.688 ms

Loss rate: 0.00%

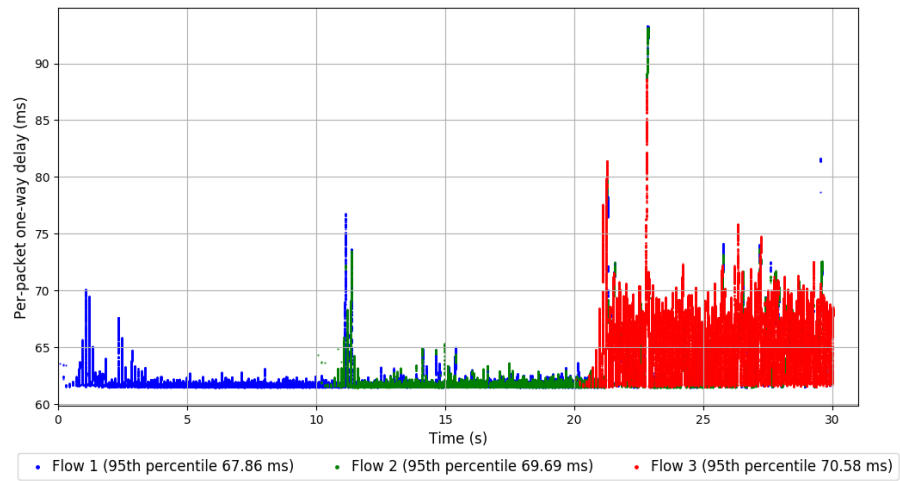
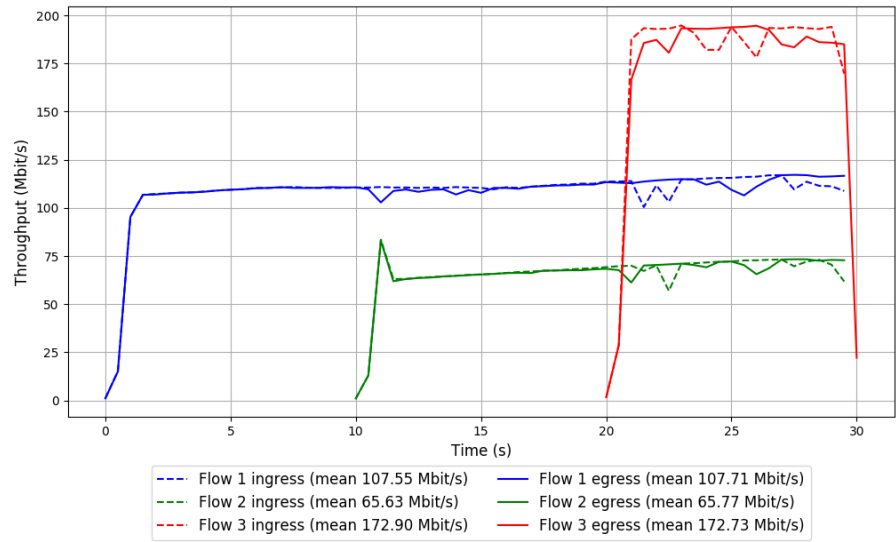
-- Flow 3:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 70.585 ms

Loss rate: 0.05%

Run 10: Report of TCP Vegas — Data Link

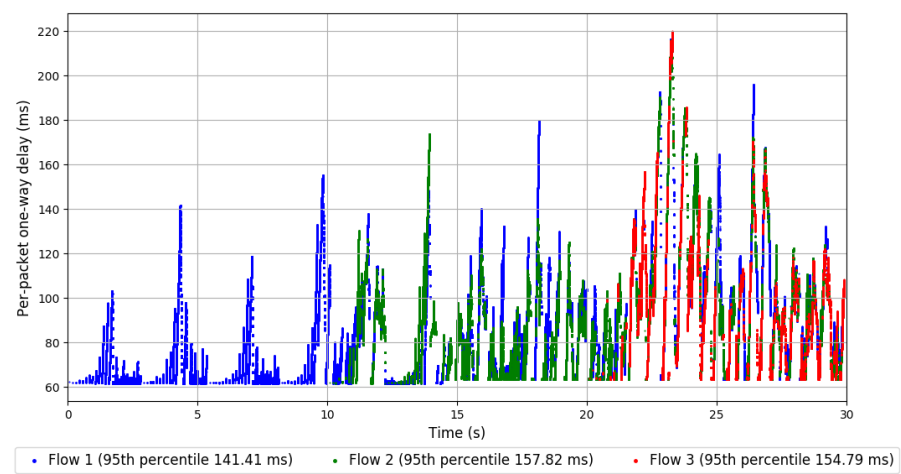
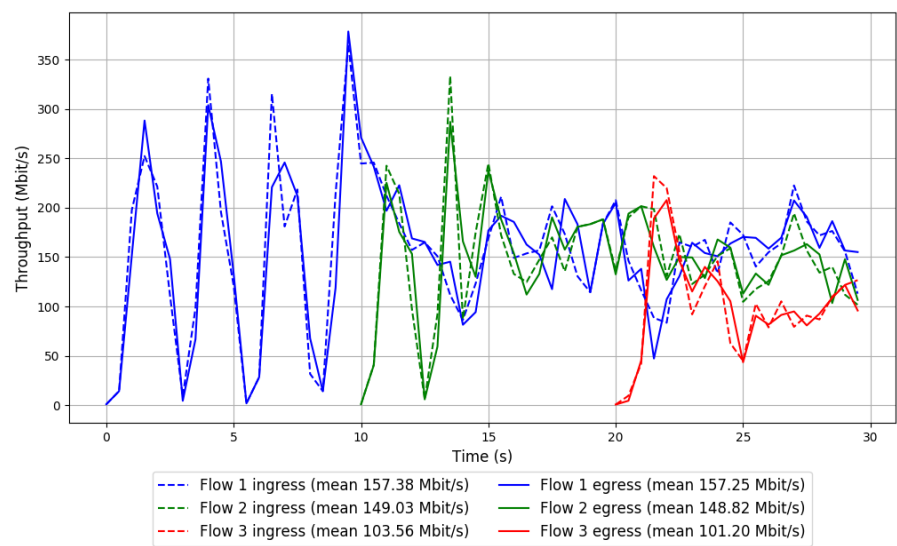


```
Run 1: Statistics of Verus

Start at: 2018-01-27 02:04:17
End at: 2018-01-27 02:04:47

# Below is generated by plot.py at 2018-01-27 06:28:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.86 Mbit/s
95th percentile per-packet one-way delay: 149.303 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 157.25 Mbit/s
95th percentile per-packet one-way delay: 141.415 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.82 Mbit/s
95th percentile per-packet one-way delay: 157.825 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 101.20 Mbit/s
95th percentile per-packet one-way delay: 154.788 ms
Loss rate: 2.27%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-27 02:18:27

End at: 2018-01-27 02:18:57

Below is generated by plot.py at 2018-01-27 06:29:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.84 Mbit/s

95th percentile per-packet one-way delay: 138.890 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 170.33 Mbit/s

95th percentile per-packet one-way delay: 170.627 ms

Loss rate: 3.26%

-- Flow 2:

Average throughput: 141.05 Mbit/s

95th percentile per-packet one-way delay: 124.281 ms

Loss rate: 0.06%

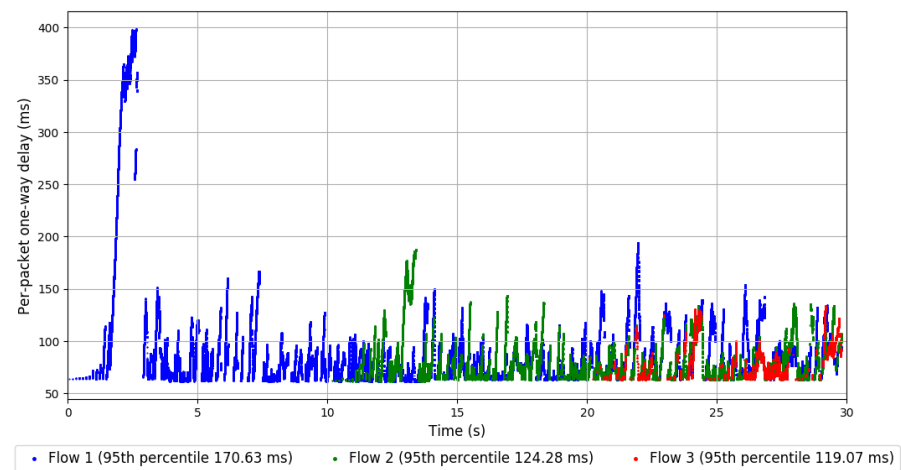
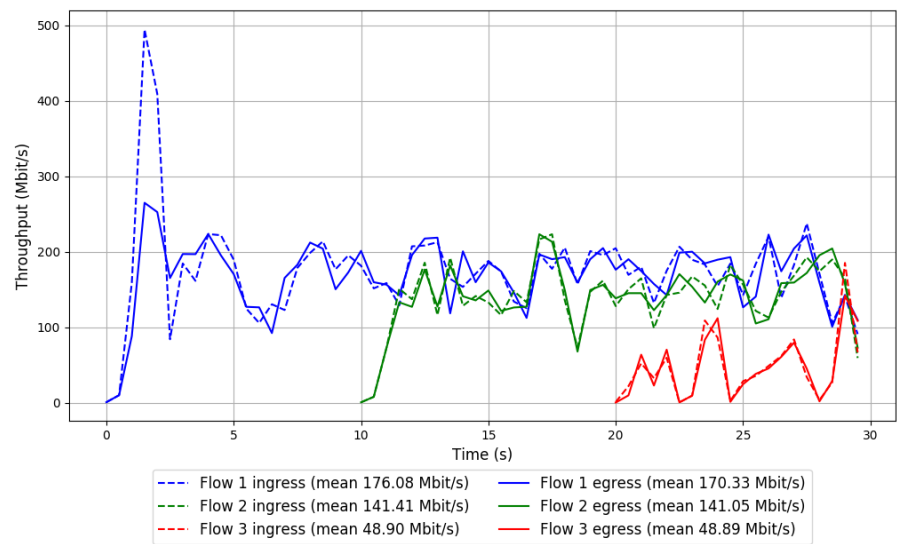
-- Flow 3:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 119.067 ms

Loss rate: 0.21%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-27 02:32:41

End at: 2018-01-27 02:33:11

Below is generated by plot.py at 2018-01-27 06:29:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.78 Mbit/s

95th percentile per-packet one-way delay: 152.297 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 143.83 Mbit/s

95th percentile per-packet one-way delay: 151.632 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 136.66 Mbit/s

95th percentile per-packet one-way delay: 155.107 ms

Loss rate: 0.25%

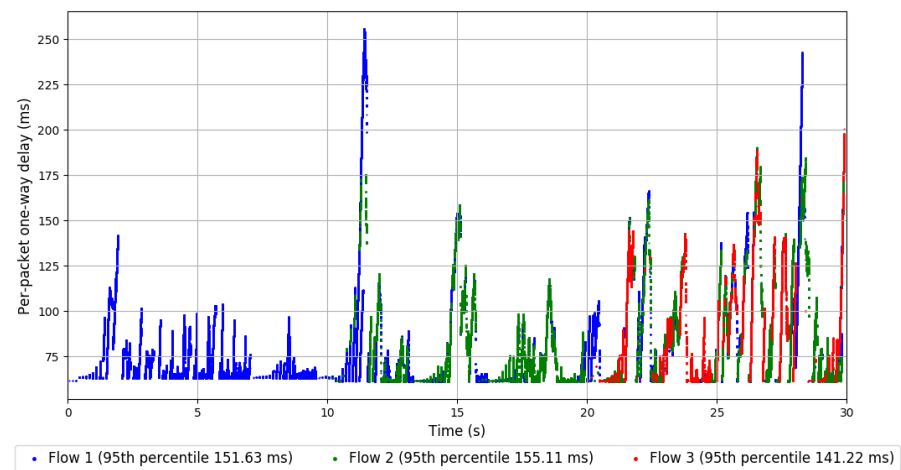
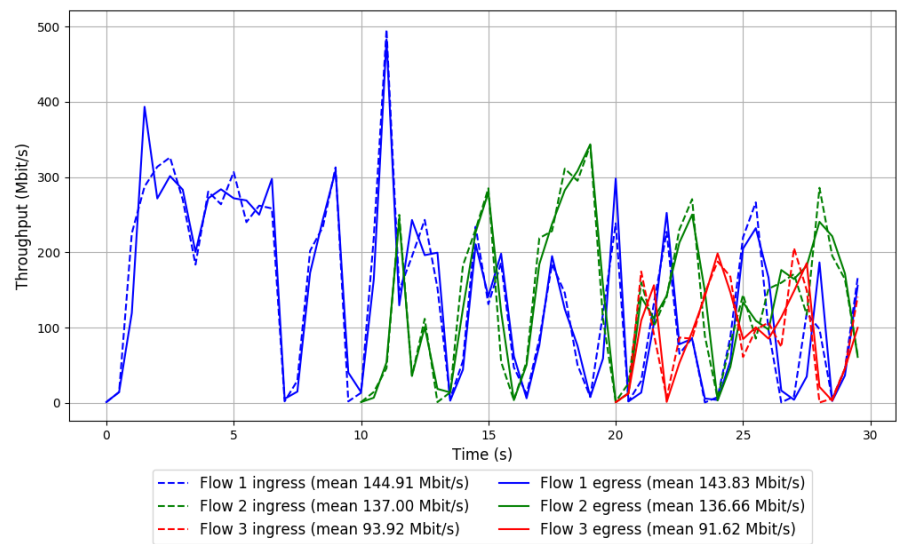
-- Flow 3:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 141.217 ms

Loss rate: 2.40%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-27 02:47:24

End at: 2018-01-27 02:47:54

Below is generated by plot.py at 2018-01-27 06:30:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.62 Mbit/s

95th percentile per-packet one-way delay: 186.338 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 225.39 Mbit/s

95th percentile per-packet one-way delay: 177.868 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 125.42 Mbit/s

95th percentile per-packet one-way delay: 195.243 ms

Loss rate: 0.93%

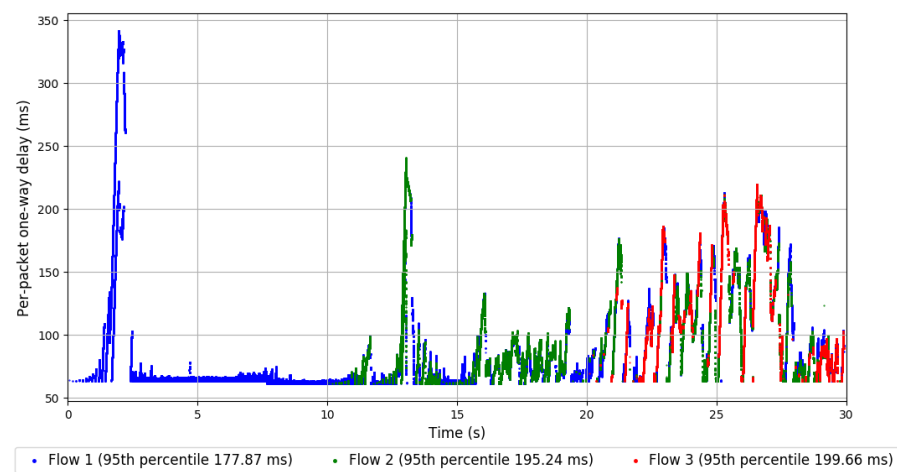
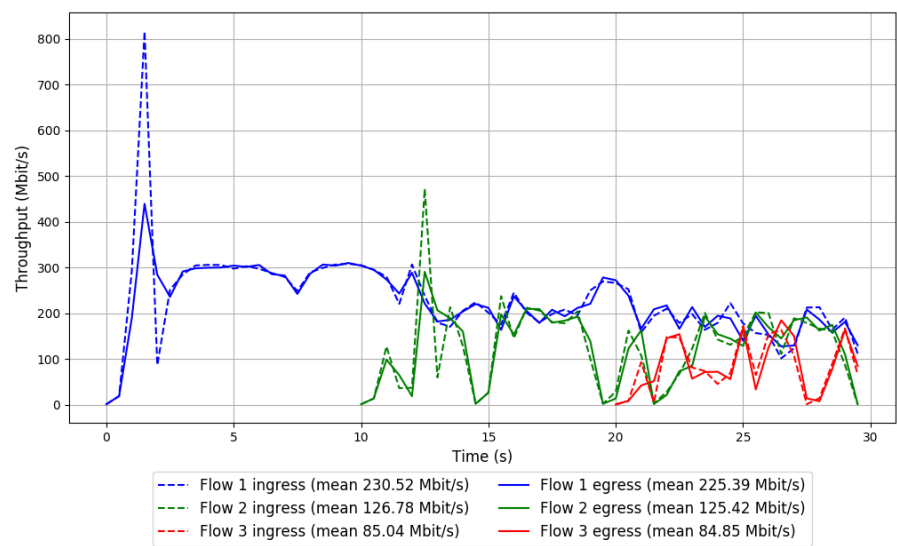
-- Flow 3:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 199.663 ms

Loss rate: 0.29%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

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

End at: 2018-01-27 03:02:30

Below is generated by plot.py at 2018-01-27 06:30:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.51 Mbit/s

95th percentile per-packet one-way delay: 197.194 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 186.75 Mbit/s

95th percentile per-packet one-way delay: 202.076 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 149.881 ms

Loss rate: 0.64%

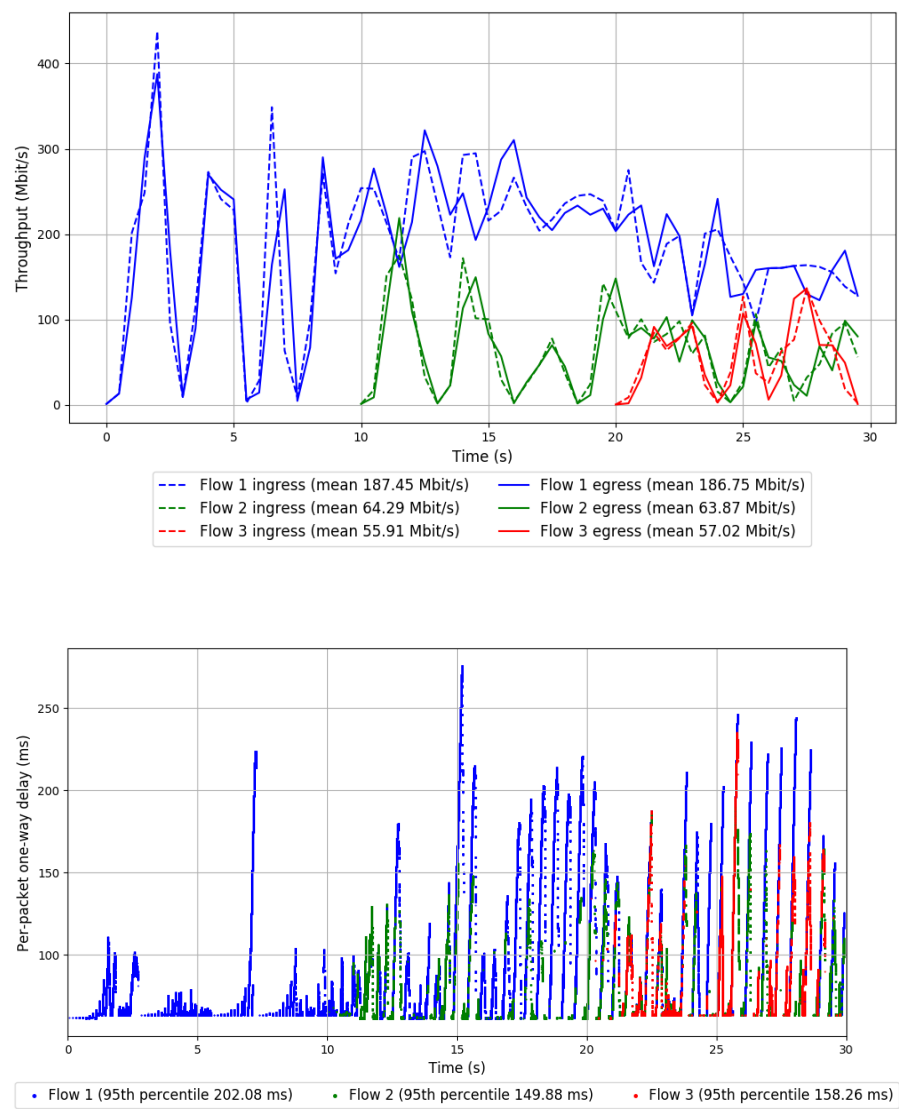
-- Flow 3:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 158.256 ms

Loss rate: 0.10%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-27 03:16:41

End at: 2018-01-27 03:17:11

Below is generated by plot.py at 2018-01-27 06:31:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.38 Mbit/s

95th percentile per-packet one-way delay: 151.060 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 132.423 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 105.78 Mbit/s

95th percentile per-packet one-way delay: 180.831 ms

Loss rate: 0.62%

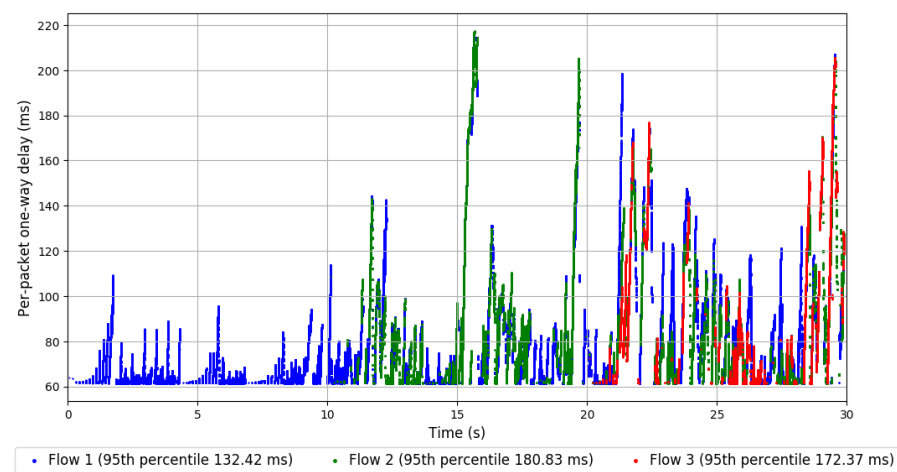
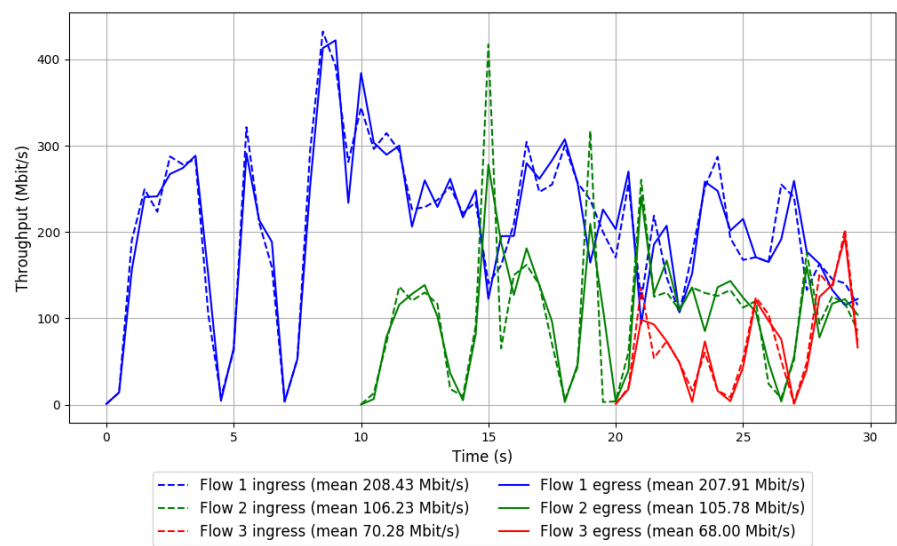
-- Flow 3:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 172.367 ms

Loss rate: 3.36%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-27 03:31:21

End at: 2018-01-27 03:31:51

Below is generated by plot.py at 2018-01-27 06:32:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.20 Mbit/s

95th percentile per-packet one-way delay: 111.351 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 184.69 Mbit/s

95th percentile per-packet one-way delay: 109.640 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.25 Mbit/s

95th percentile per-packet one-way delay: 115.552 ms

Loss rate: 0.00%

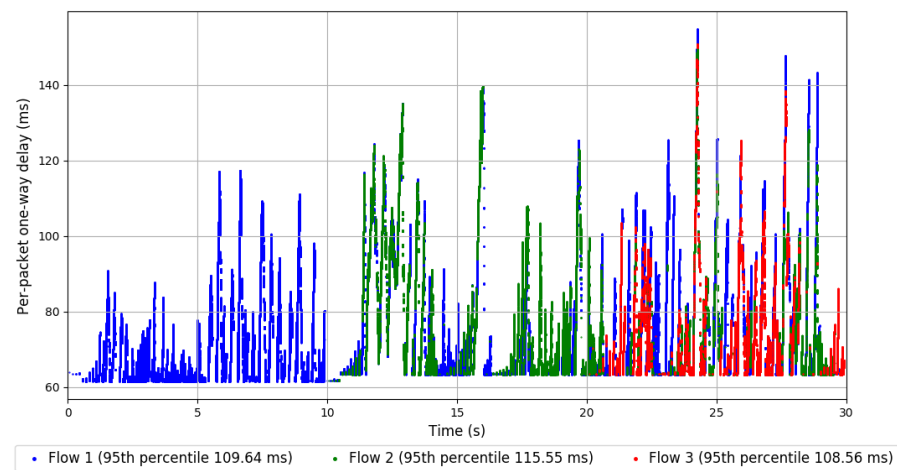
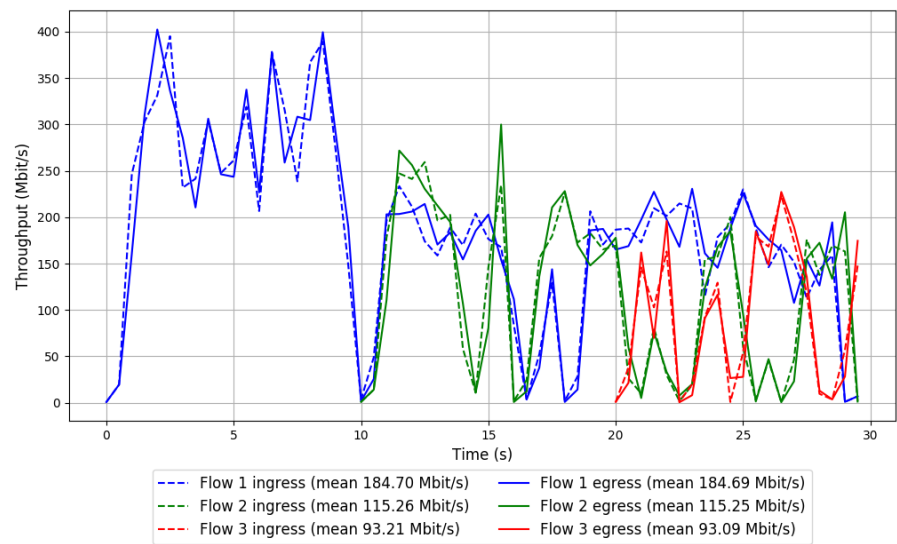
-- Flow 3:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 108.555 ms

Loss rate: 0.12%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-27 03:46:02

End at: 2018-01-27 03:46:32

Below is generated by plot.py at 2018-01-27 06:33:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.66 Mbit/s

95th percentile per-packet one-way delay: 244.405 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 156.99 Mbit/s

95th percentile per-packet one-way delay: 191.633 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 190.40 Mbit/s

95th percentile per-packet one-way delay: 280.744 ms

Loss rate: 3.11%

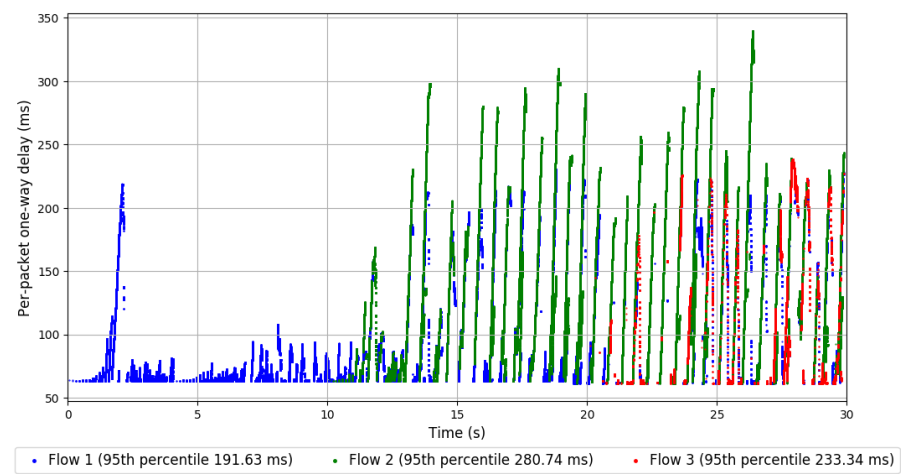
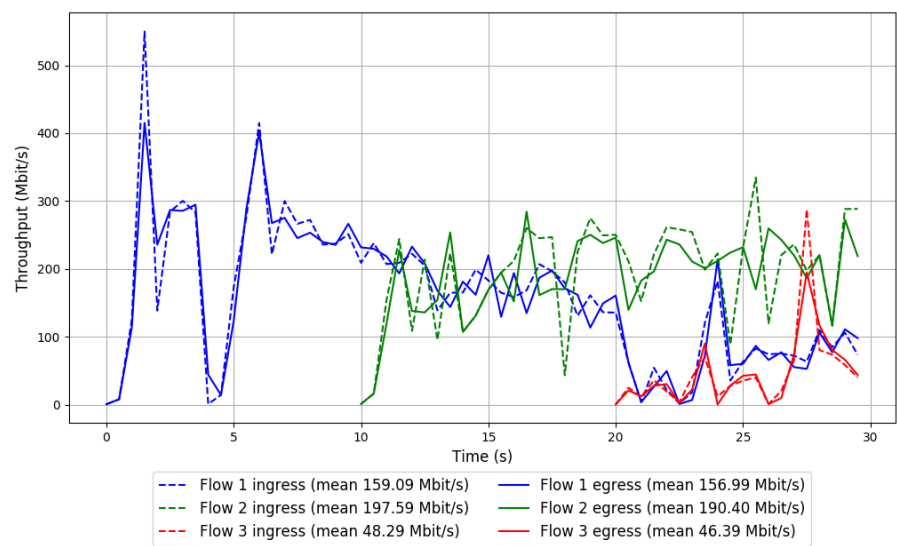
-- Flow 3:

Average throughput: 46.39 Mbit/s

95th percentile per-packet one-way delay: 233.342 ms

Loss rate: 4.19%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-27 04:00:42

End at: 2018-01-27 04:01:12

Below is generated by plot.py at 2018-01-27 06:33:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.01 Mbit/s

95th percentile per-packet one-way delay: 191.547 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 197.34 Mbit/s

95th percentile per-packet one-way delay: 185.219 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 87.29 Mbit/s

95th percentile per-packet one-way delay: 209.019 ms

Loss rate: 1.09%

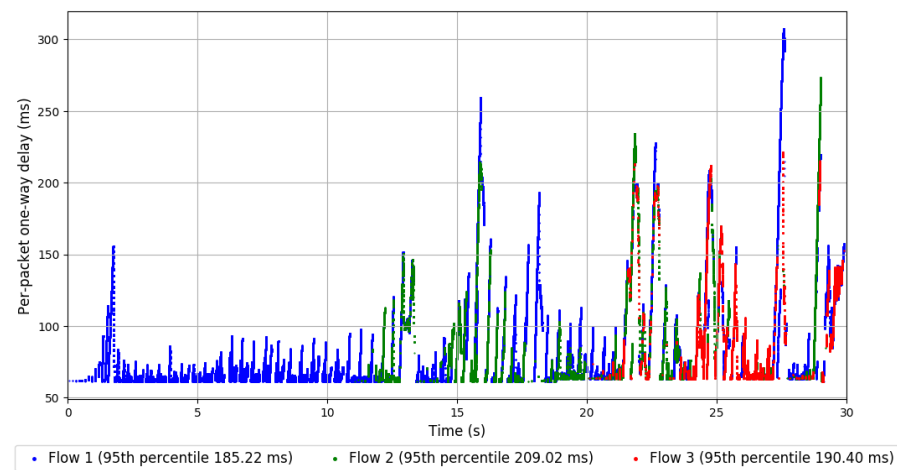
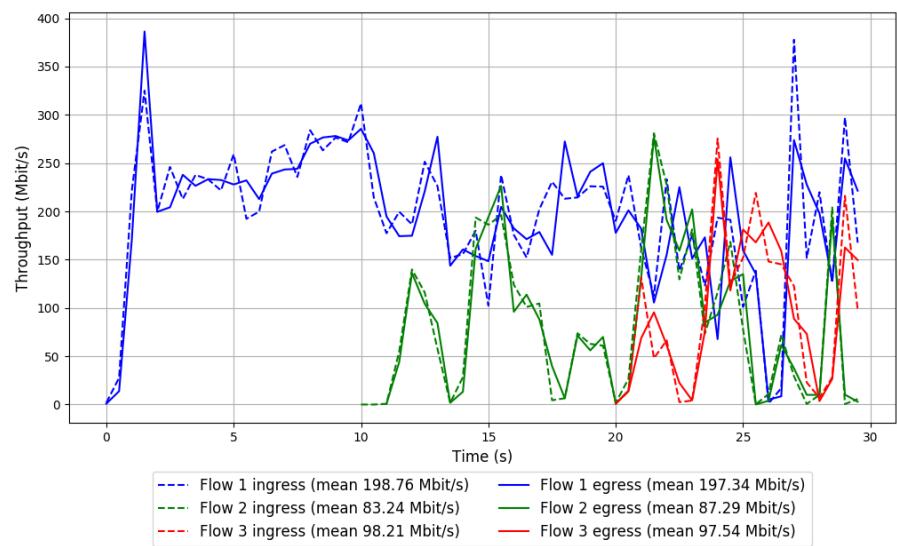
-- Flow 3:

Average throughput: 97.54 Mbit/s

95th percentile per-packet one-way delay: 190.395 ms

Loss rate: 0.67%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-27 04:15:27

End at: 2018-01-27 04:15:57

Below is generated by plot.py at 2018-01-27 06:34:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.64 Mbit/s

95th percentile per-packet one-way delay: 138.144 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 183.37 Mbit/s

95th percentile per-packet one-way delay: 126.963 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 130.29 Mbit/s

95th percentile per-packet one-way delay: 146.559 ms

Loss rate: 0.06%

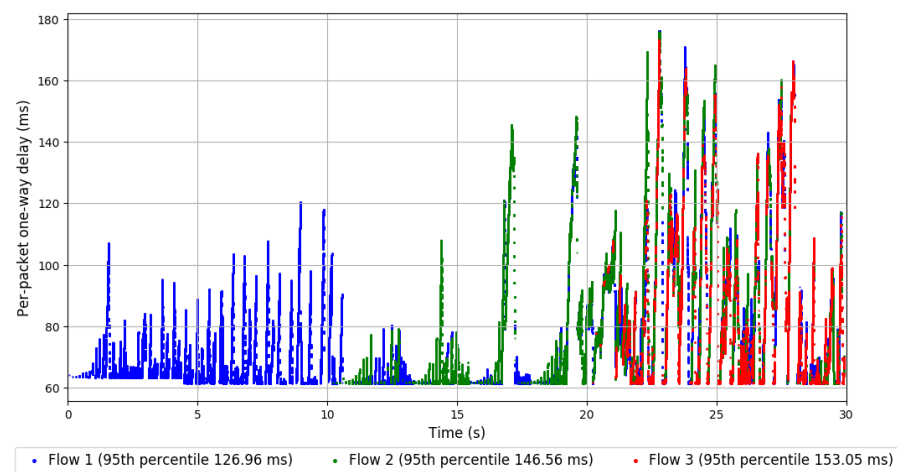
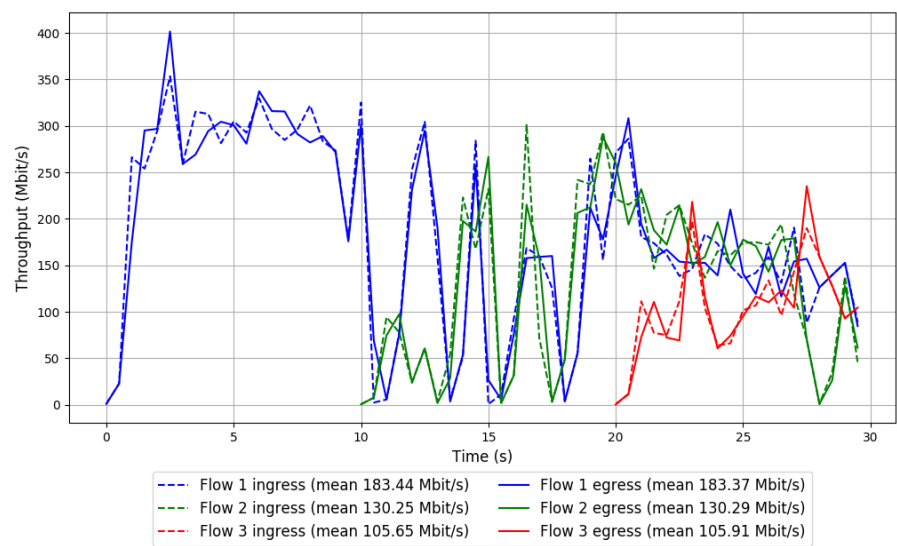
-- Flow 3:

Average throughput: 105.91 Mbit/s

95th percentile per-packet one-way delay: 153.047 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-27 02:01:57

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

Below is generated by plot.py at 2018-01-27 06:34:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.38 Mbit/s

95th percentile per-packet one-way delay: 63.708 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.48 Mbit/s

95th percentile per-packet one-way delay: 63.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.18 Mbit/s

95th percentile per-packet one-way delay: 63.607 ms

Loss rate: 0.00%

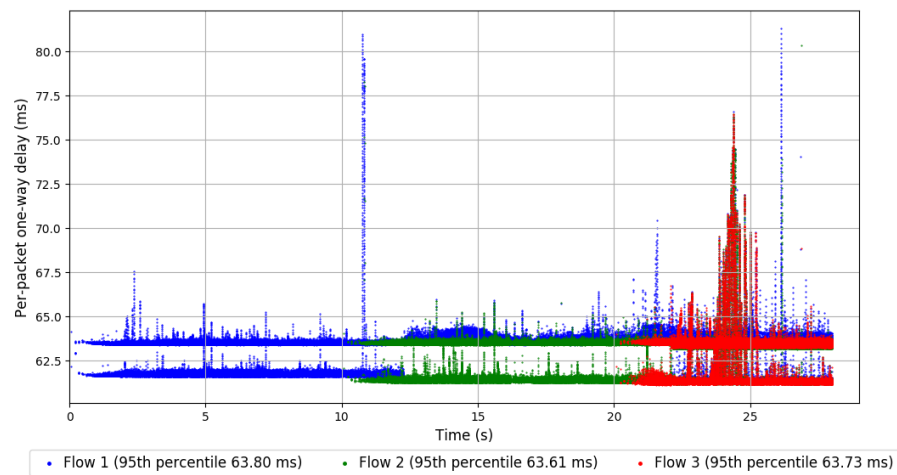
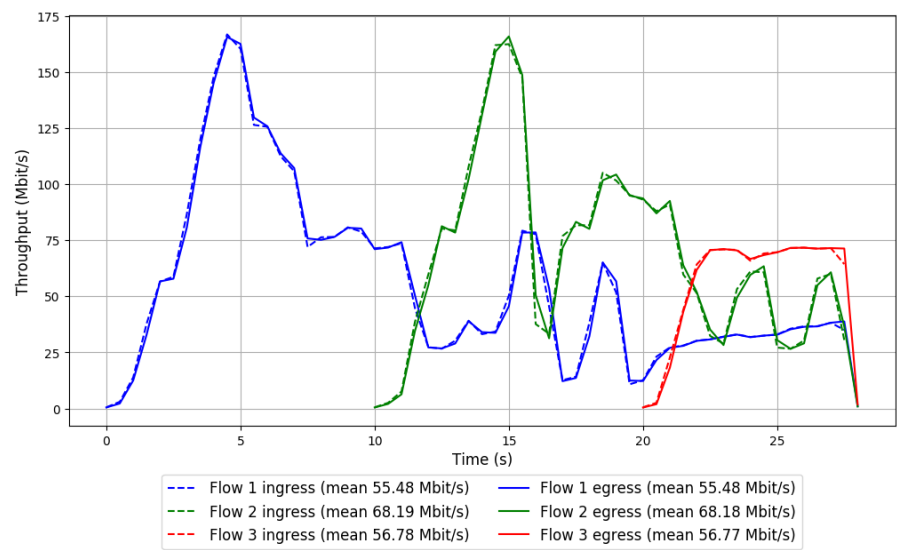
-- Flow 3:

Average throughput: 56.77 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-27 02:16:10

End at: 2018-01-27 02:16:40

Below is generated by plot.py at 2018-01-27 06:34:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.51 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 63.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 63.662 ms

Loss rate: 0.00%

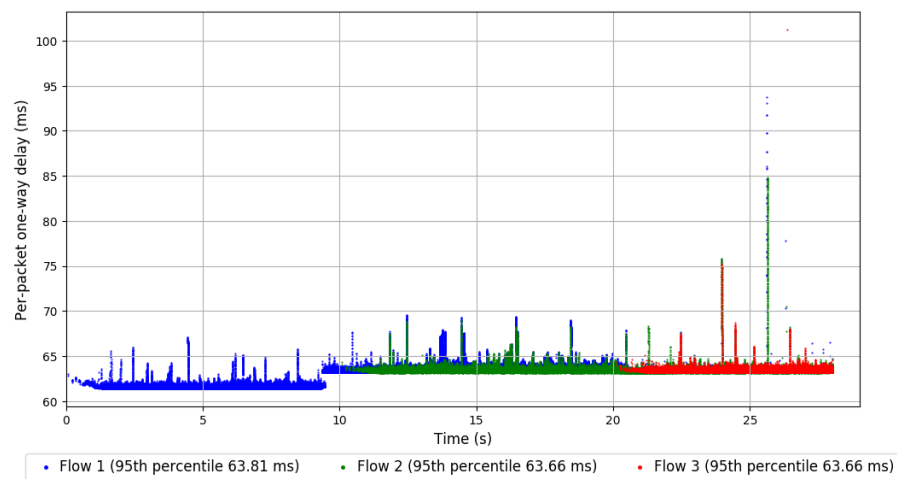
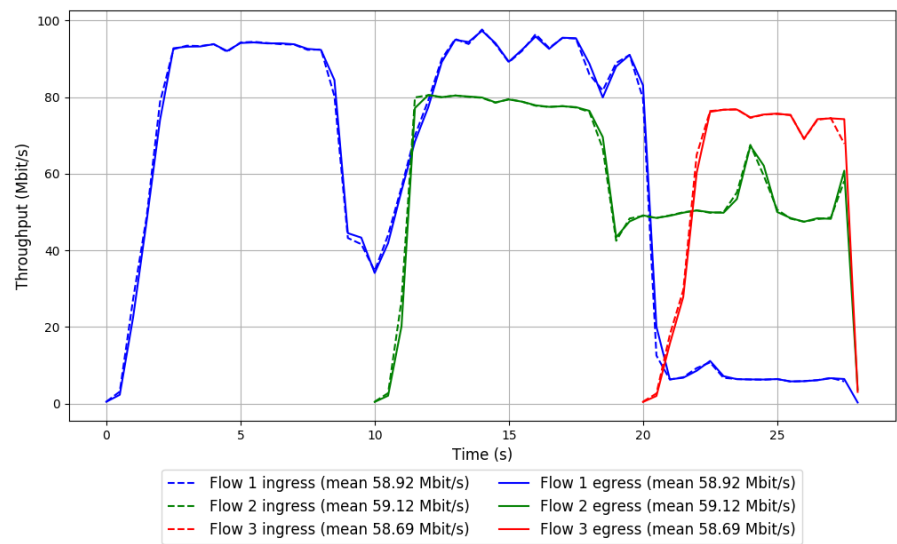
-- Flow 3:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 63.656 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-27 02:30:16

End at: 2018-01-27 02:30:46

Below is generated by plot.py at 2018-01-27 06:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.64 Mbit/s

95th percentile per-packet one-way delay: 63.490 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.00%

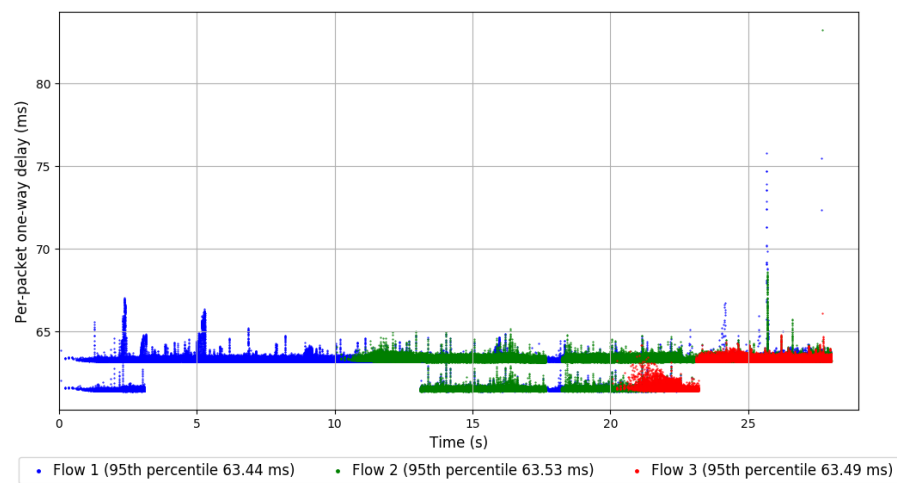
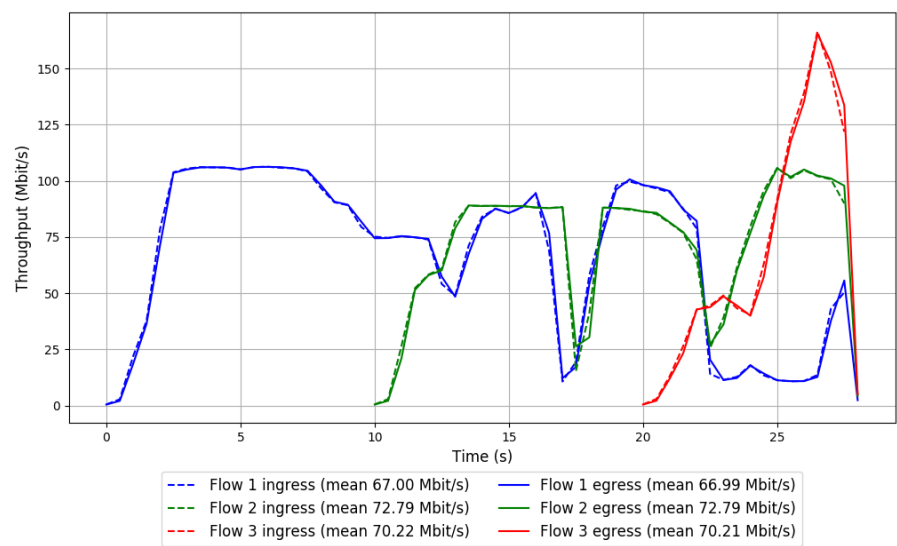
-- Flow 3:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-27 02:44:51

End at: 2018-01-27 02:45:21

Below is generated by plot.py at 2018-01-27 06:36:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.84 Mbit/s

95th percentile per-packet one-way delay: 63.461 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.77 Mbit/s

95th percentile per-packet one-way delay: 63.381 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.18 Mbit/s

95th percentile per-packet one-way delay: 63.477 ms

Loss rate: 0.00%

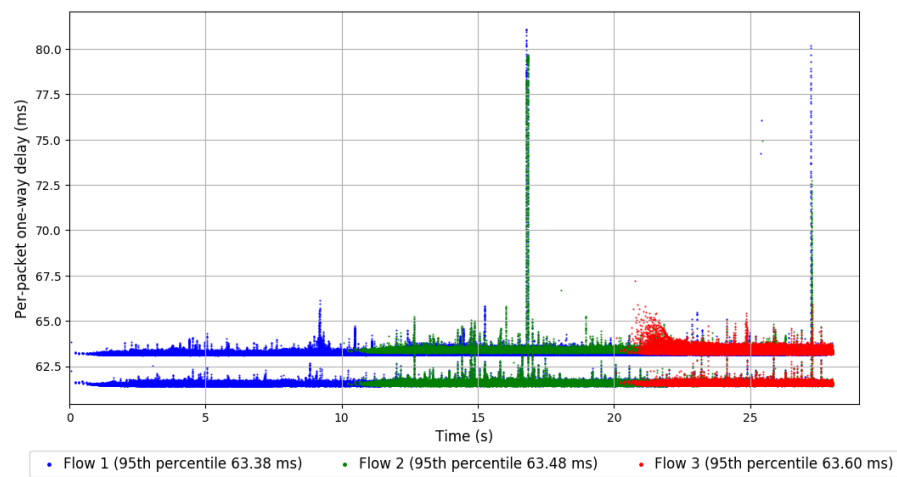
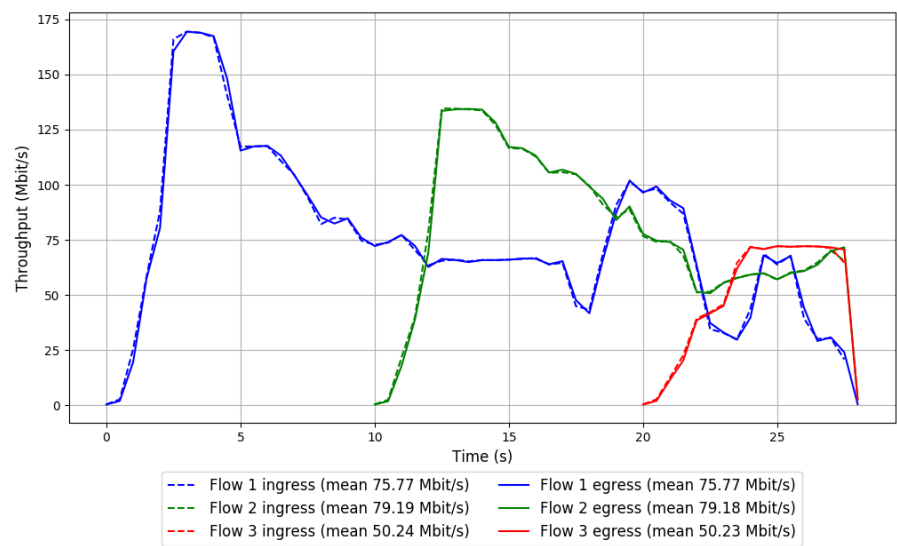
-- Flow 3:

Average throughput: 50.23 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-27 02:59:30

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

Below is generated by plot.py at 2018-01-27 06:36:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.34 Mbit/s

95th percentile per-packet one-way delay: 63.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.62 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.00%

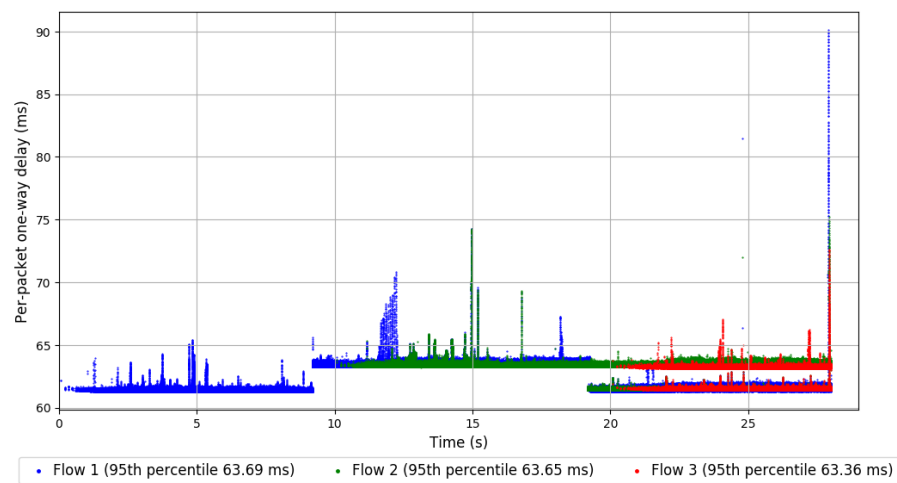
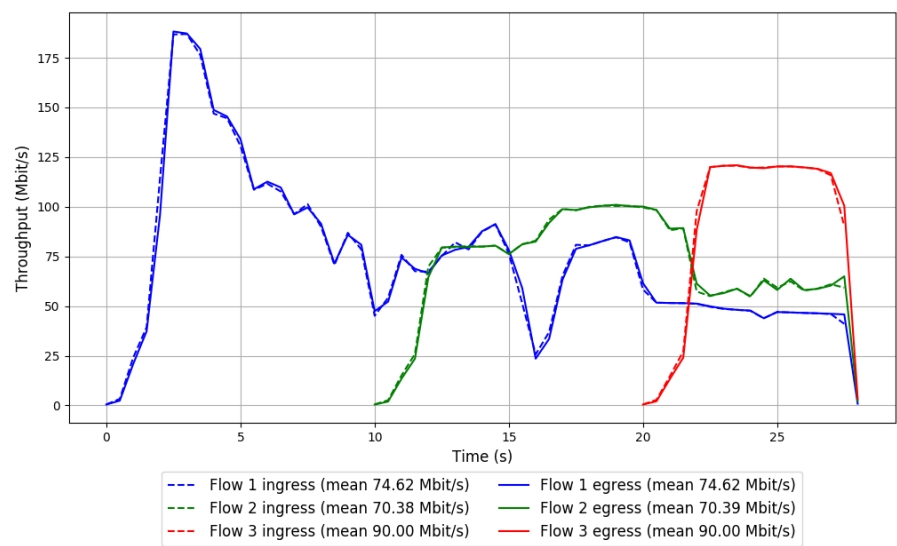
-- Flow 3:

Average throughput: 90.00 Mbit/s

95th percentile per-packet one-way delay: 63.358 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-27 03:14:10

End at: 2018-01-27 03:14:40

Below is generated by plot.py at 2018-01-27 06:37:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.33 Mbit/s

95th percentile per-packet one-way delay: 63.467 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.21 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 61.711 ms

Loss rate: 0.00%

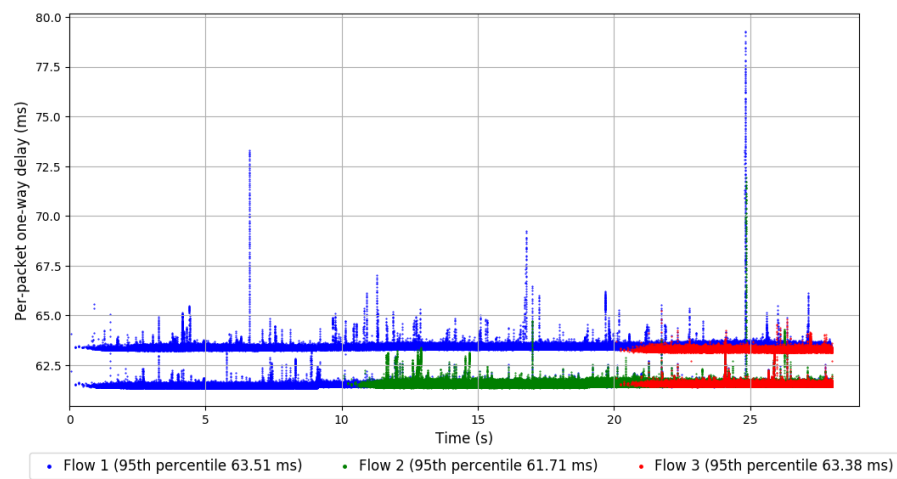
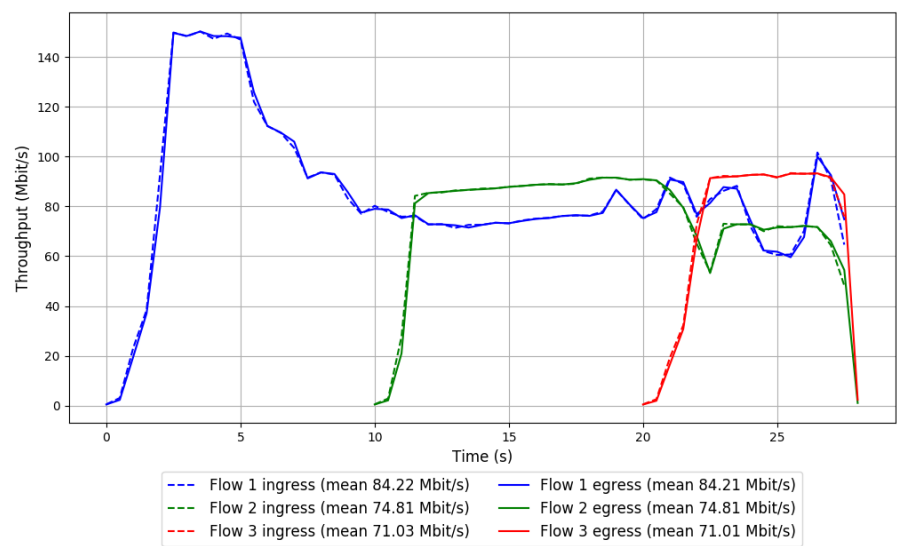
-- Flow 3:

Average throughput: 71.01 Mbit/s

95th percentile per-packet one-way delay: 63.380 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-27 03:28:56

End at: 2018-01-27 03:29:26

Below is generated by plot.py at 2018-01-27 06:37:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.19 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.16 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.00%

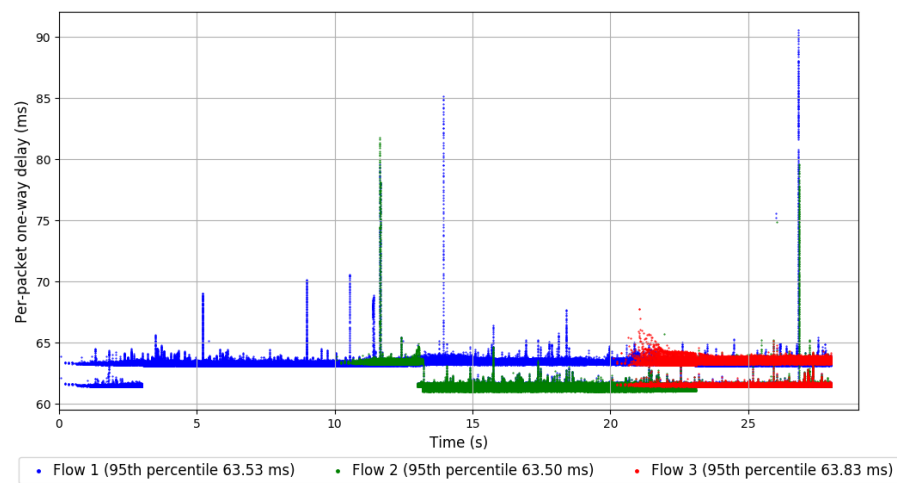
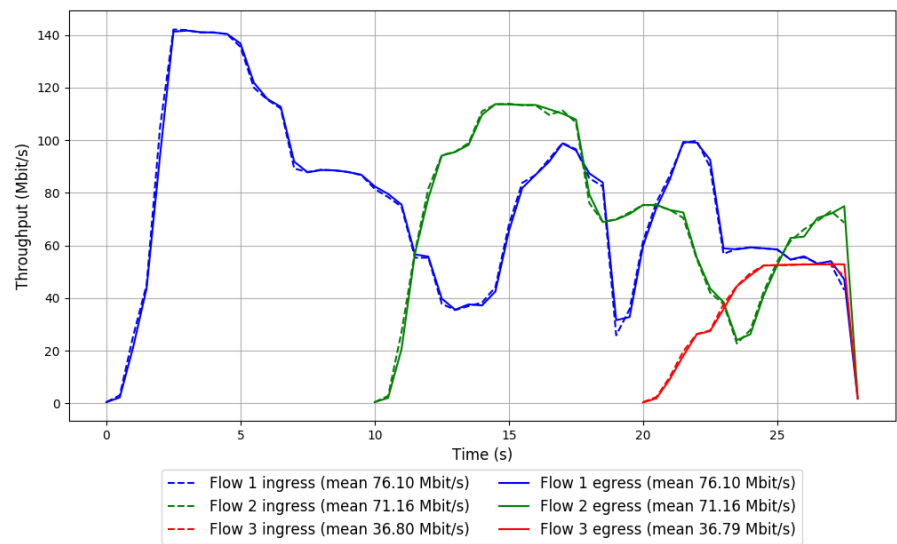
-- Flow 3:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 63.826 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-27 03:43:34

End at: 2018-01-27 03:44:04

Below is generated by plot.py at 2018-01-27 06:38:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.30 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 61.742 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.10 Mbit/s

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

Loss rate: 0.01%

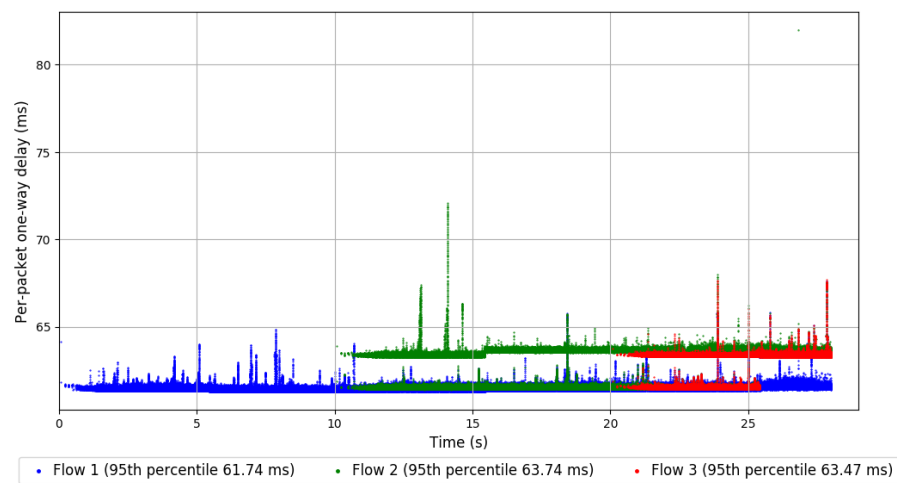
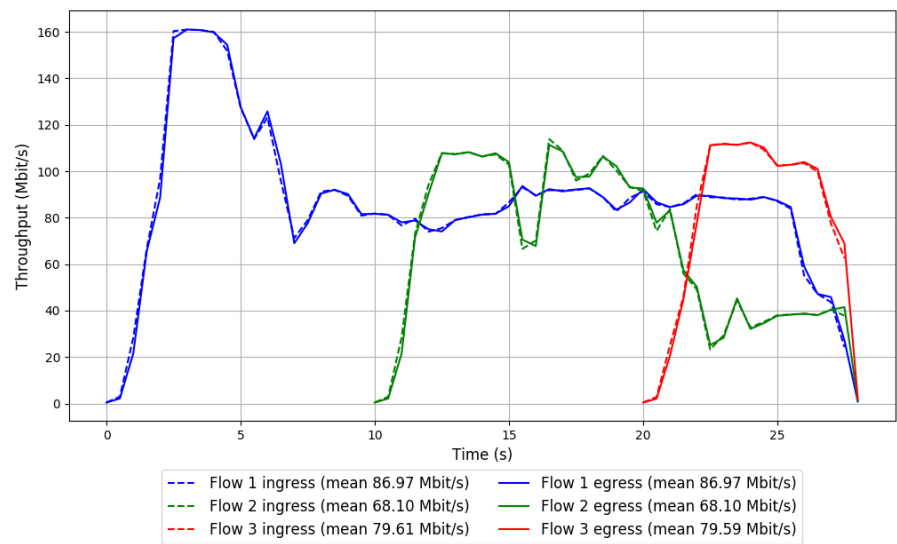
-- Flow 3:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-27 03:58:11

End at: 2018-01-27 03:58:41

Below is generated by plot.py at 2018-01-27 06:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.49 Mbit/s

95th percentile per-packet one-way delay: 63.528 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.54 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 63.477 ms

Loss rate: 0.00%

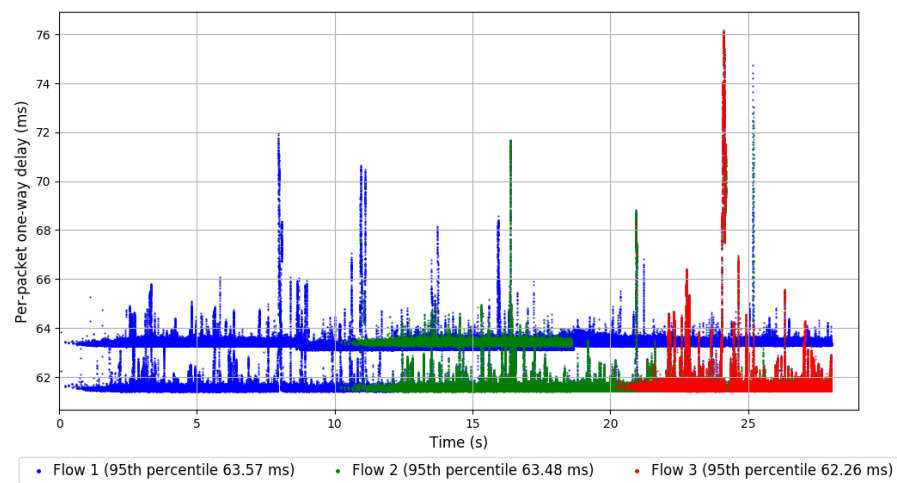
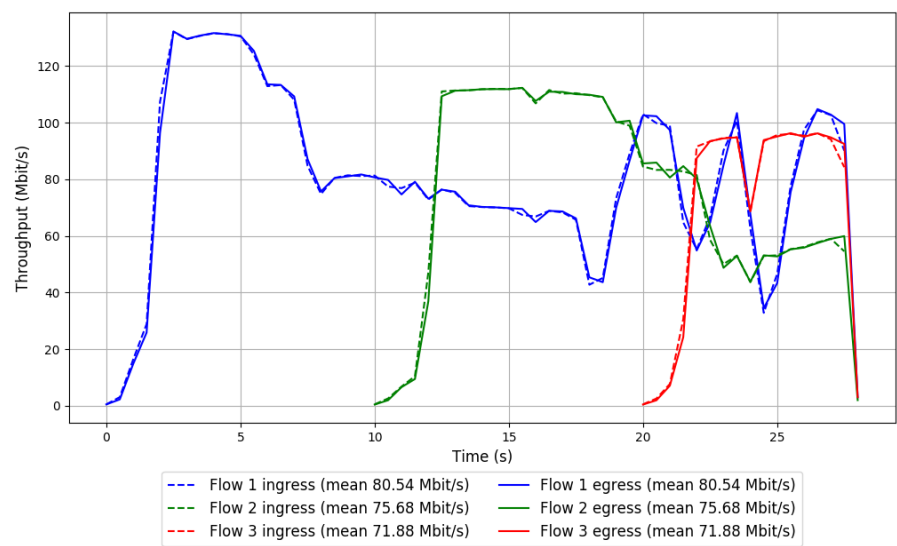
-- Flow 3:

Average throughput: 71.88 Mbit/s

95th percentile per-packet one-way delay: 62.256 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-27 04:12:58

End at: 2018-01-27 04:13:28

Below is generated by plot.py at 2018-01-27 06:39:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.37 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.99 Mbit/s

95th percentile per-packet one-way delay: 63.725 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.34 Mbit/s

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

Loss rate: 0.00%

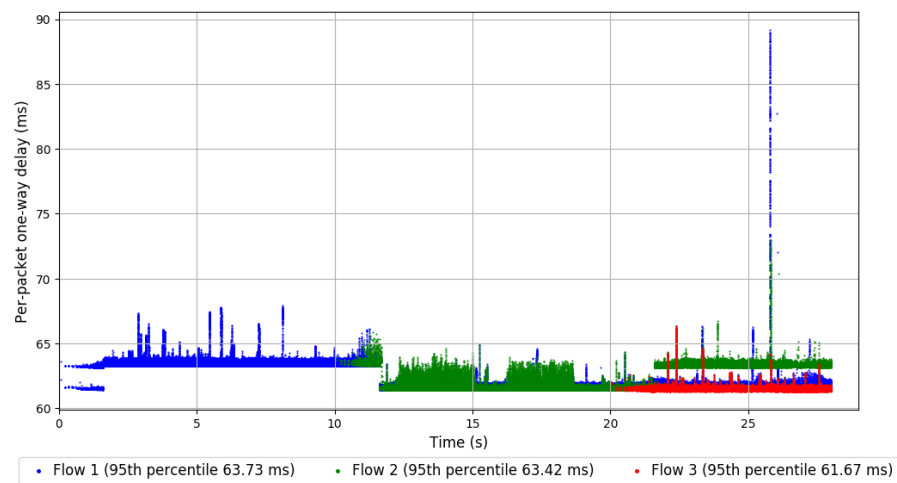
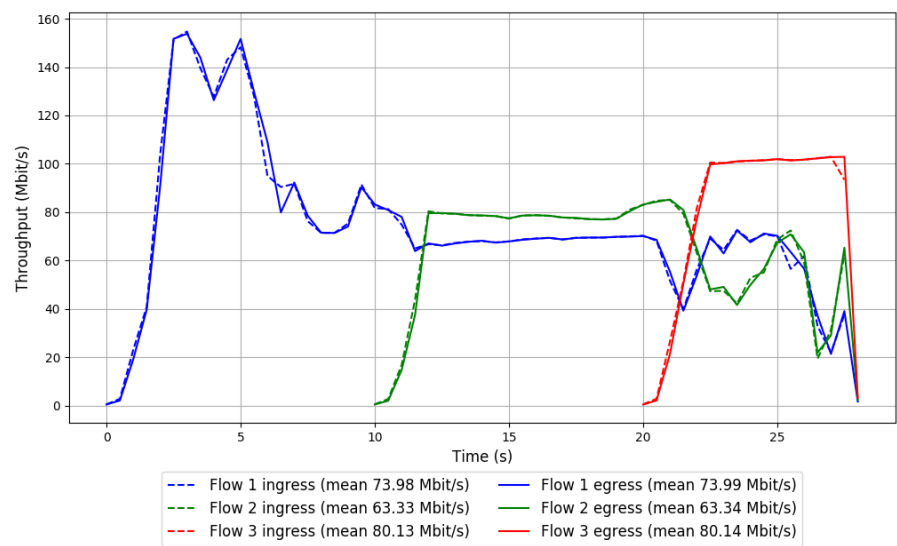
-- Flow 3:

Average throughput: 80.14 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

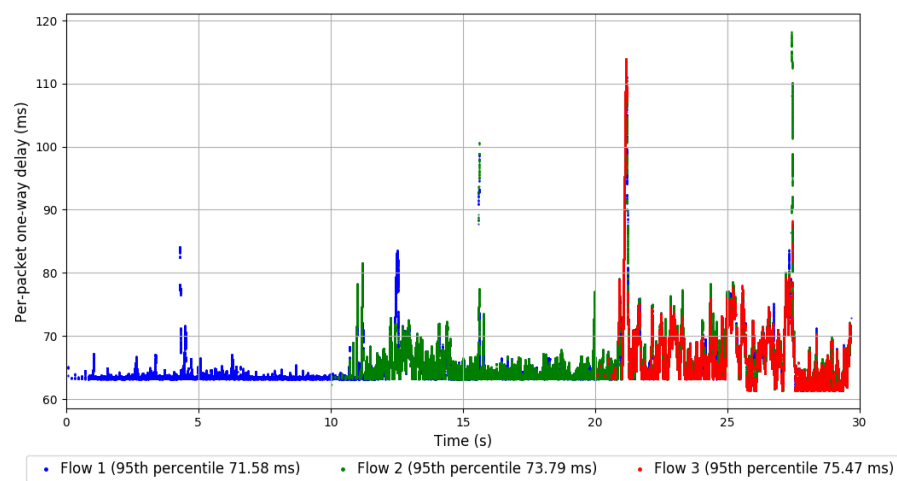
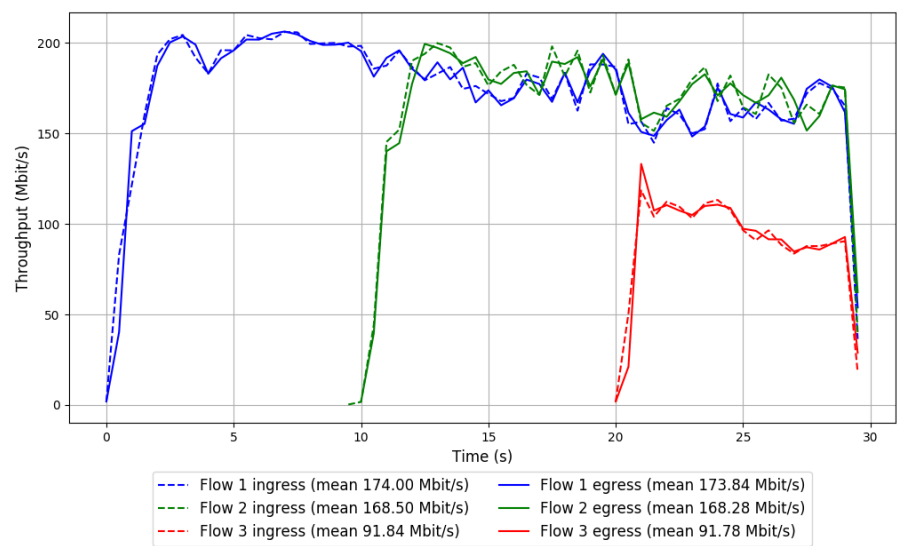


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-27 02:07:05
End at: 2018-01-27 02:07:35

# Below is generated by plot.py at 2018-01-27 06:40:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.12 Mbit/s
95th percentile per-packet one-way delay: 73.206 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 173.84 Mbit/s
95th percentile per-packet one-way delay: 71.584 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 168.28 Mbit/s
95th percentile per-packet one-way delay: 73.788 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 91.78 Mbit/s
95th percentile per-packet one-way delay: 75.472 ms
Loss rate: 0.05%
```


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

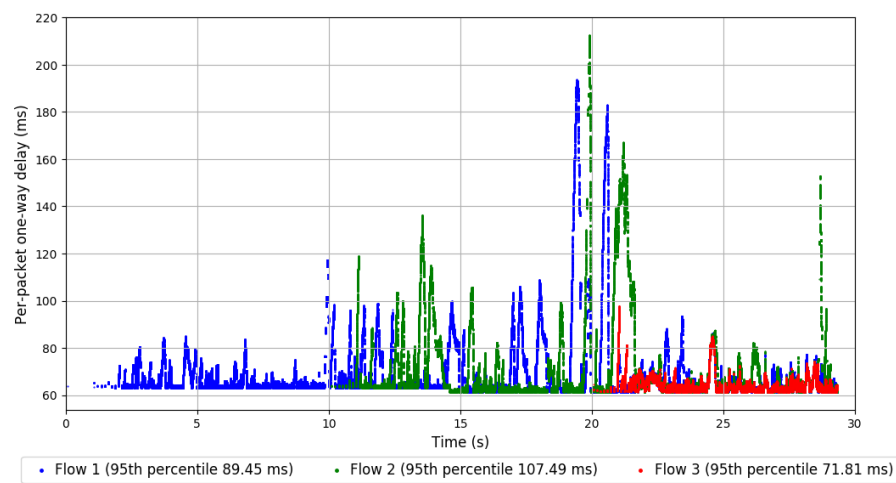
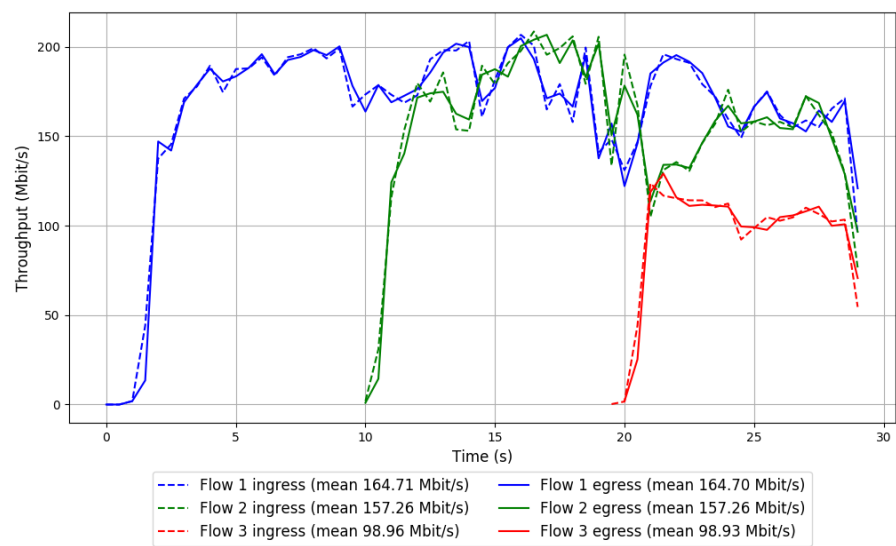


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-27 02:21:16
End at: 2018-01-27 02:21:46

# Below is generated by plot.py at 2018-01-27 06:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.25 Mbit/s
95th percentile per-packet one-way delay: 93.679 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 164.70 Mbit/s
95th percentile per-packet one-way delay: 89.451 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 157.26 Mbit/s
95th percentile per-packet one-way delay: 107.488 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 98.93 Mbit/s
95th percentile per-packet one-way delay: 71.810 ms
Loss rate: 0.02%
```

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



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-27 02:35:27

End at: 2018-01-27 02:35:57

Below is generated by plot.py at 2018-01-27 06:42:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.26 Mbit/s

95th percentile per-packet one-way delay: 73.385 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 177.90 Mbit/s

95th percentile per-packet one-way delay: 71.338 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 165.90 Mbit/s

95th percentile per-packet one-way delay: 73.856 ms

Loss rate: 0.03%

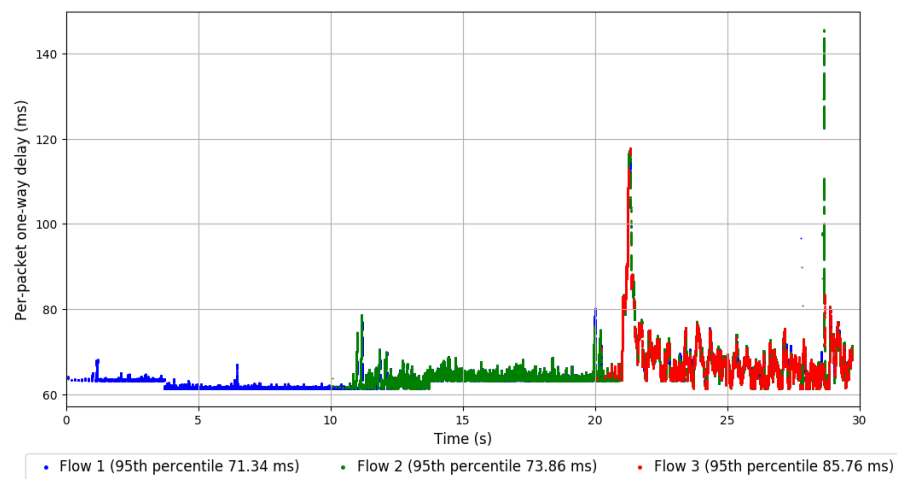
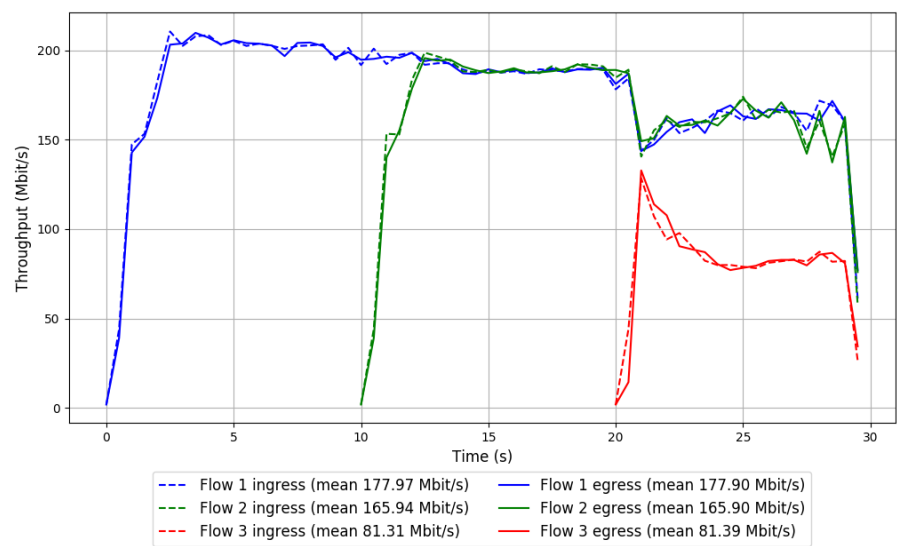
-- Flow 3:

Average throughput: 81.39 Mbit/s

95th percentile per-packet one-way delay: 85.761 ms

Loss rate: 0.09%

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



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-27 02:50:15

End at: 2018-01-27 02:50:45

Below is generated by plot.py at 2018-01-27 06:43:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.21 Mbit/s

95th percentile per-packet one-way delay: 71.059 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.93 Mbit/s

95th percentile per-packet one-way delay: 69.658 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.34 Mbit/s

95th percentile per-packet one-way delay: 71.218 ms

Loss rate: 0.00%

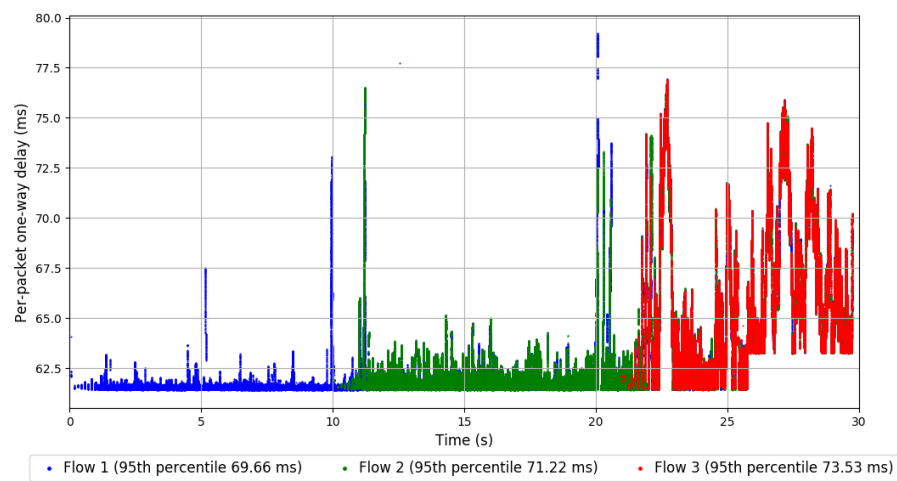
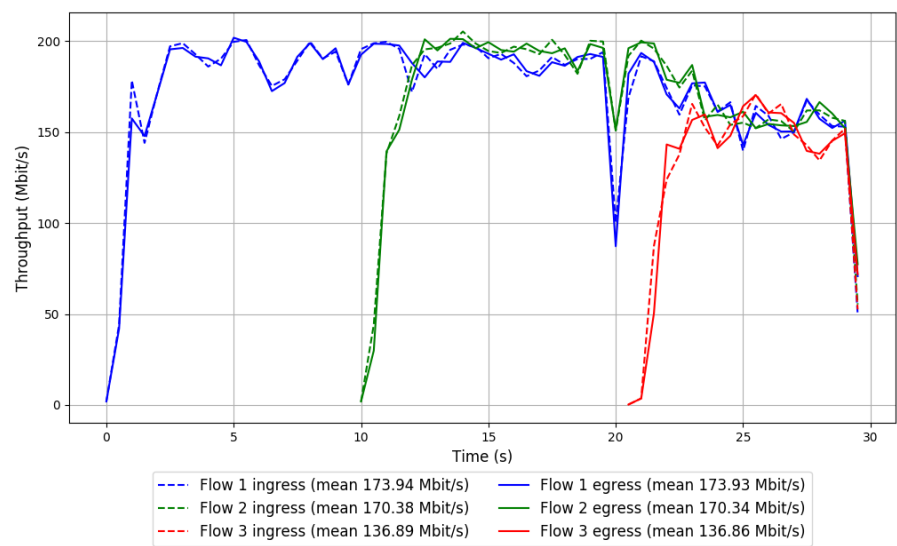
-- Flow 3:

Average throughput: 136.86 Mbit/s

95th percentile per-packet one-way delay: 73.527 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-27 03:04:45

End at: 2018-01-27 03:05:15

Below is generated by plot.py at 2018-01-27 06:43:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.16 Mbit/s

95th percentile per-packet one-way delay: 76.625 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.31 Mbit/s

95th percentile per-packet one-way delay: 72.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.36 Mbit/s

95th percentile per-packet one-way delay: 77.190 ms

Loss rate: 0.00%

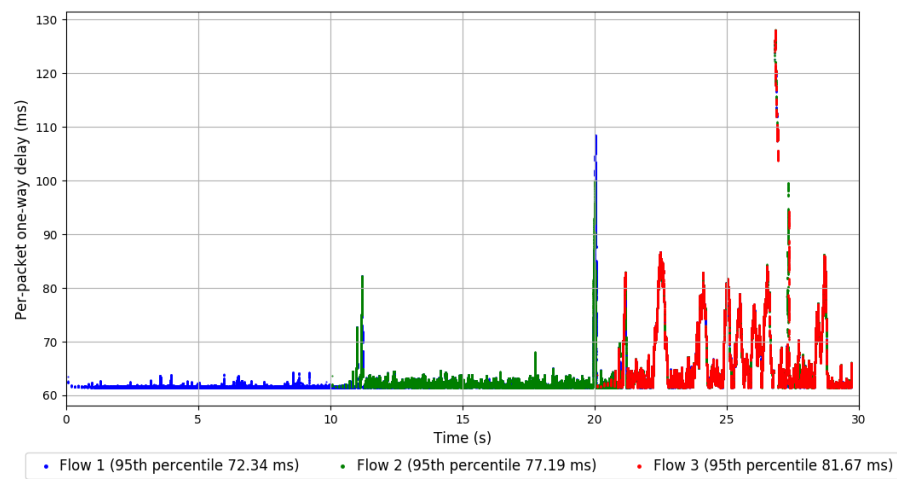
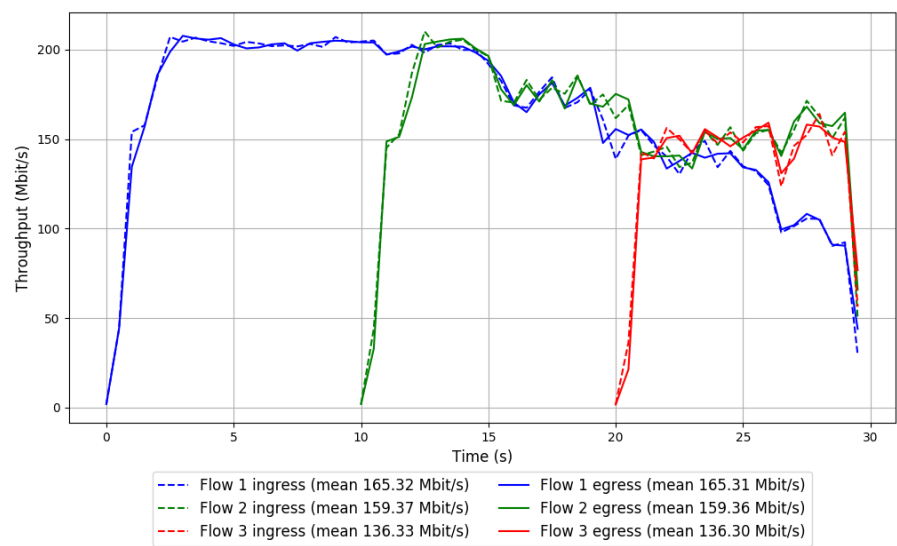
-- Flow 3:

Average throughput: 136.30 Mbit/s

95th percentile per-packet one-way delay: 81.669 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-27 03:19:31

End at: 2018-01-27 03:20:01

Below is generated by plot.py at 2018-01-27 06:43:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.16 Mbit/s

95th percentile per-packet one-way delay: 71.296 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 180.94 Mbit/s

95th percentile per-packet one-way delay: 69.663 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 167.80 Mbit/s

95th percentile per-packet one-way delay: 72.054 ms

Loss rate: 0.02%

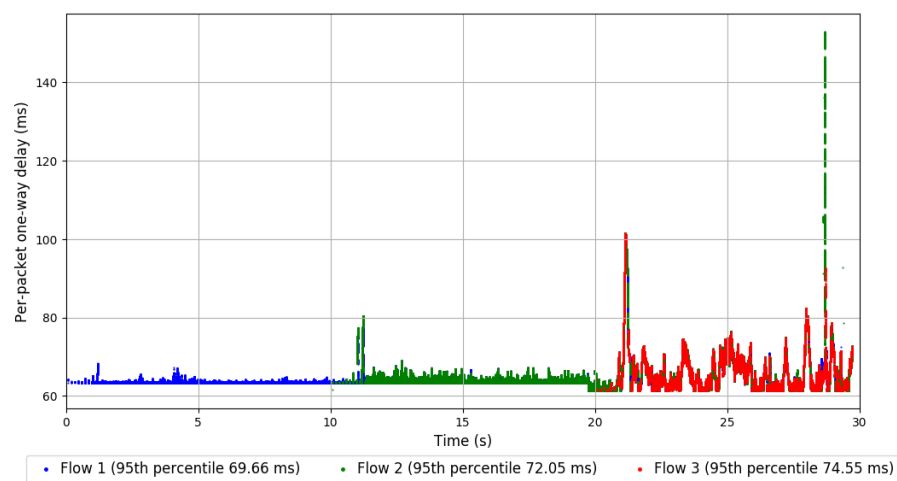
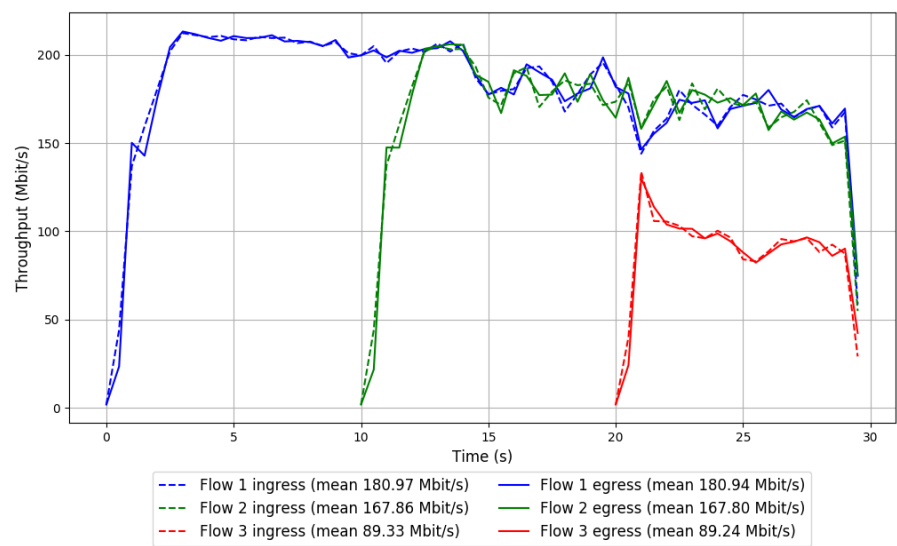
-- Flow 3:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 74.545 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-27 03:34:10

End at: 2018-01-27 03:34:40

Below is generated by plot.py at 2018-01-27 06:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.35 Mbit/s

95th percentile per-packet one-way delay: 68.801 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.80 Mbit/s

95th percentile per-packet one-way delay: 67.043 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.68 Mbit/s

95th percentile per-packet one-way delay: 69.431 ms

Loss rate: 0.00%

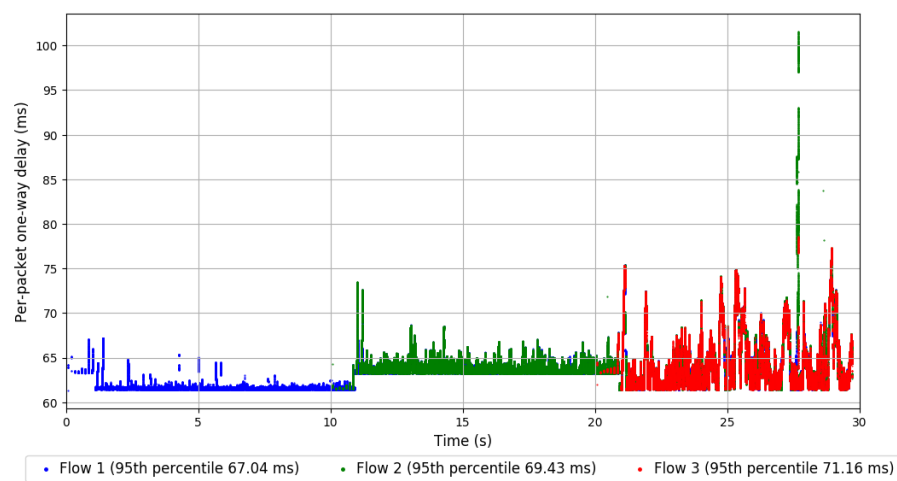
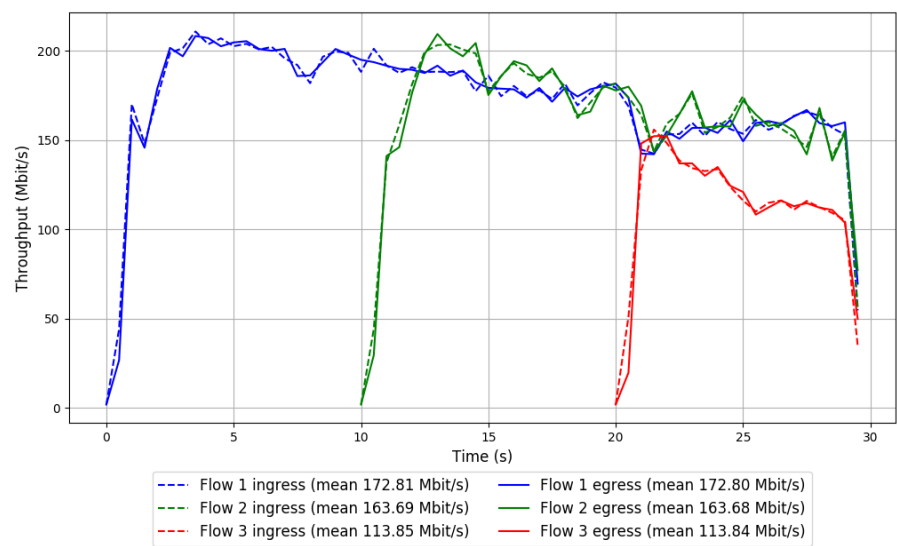
-- Flow 3:

Average throughput: 113.84 Mbit/s

95th percentile per-packet one-way delay: 71.159 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-27 03:48:50

End at: 2018-01-27 03:49:21

Below is generated by plot.py at 2018-01-27 06:44:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.07 Mbit/s

95th percentile per-packet one-way delay: 71.421 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 177.60 Mbit/s

95th percentile per-packet one-way delay: 69.210 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.58 Mbit/s

95th percentile per-packet one-way delay: 72.215 ms

Loss rate: 0.00%

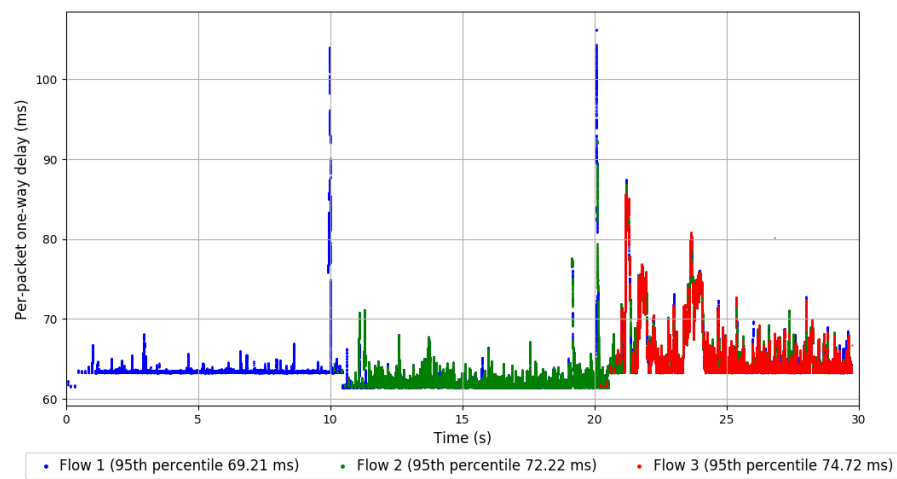
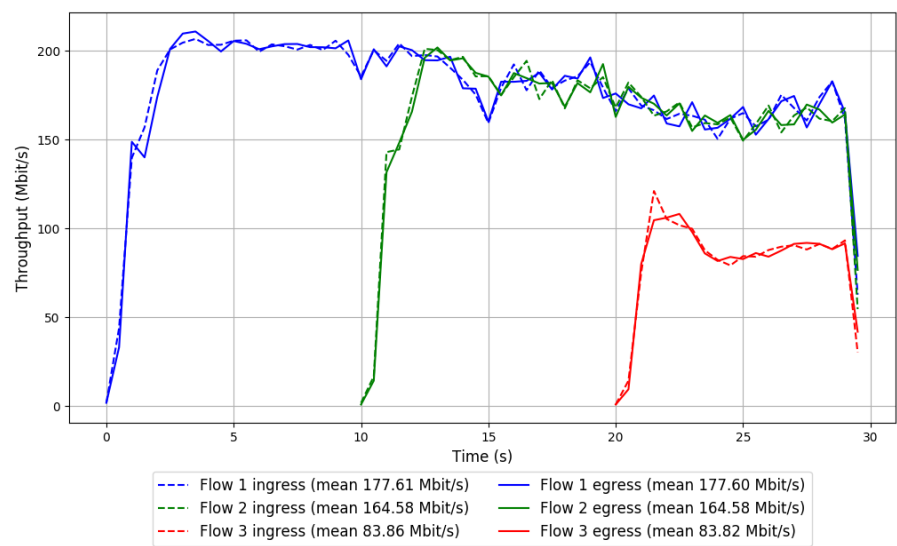
-- Flow 3:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 74.716 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-27 04:03:30

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

Below is generated by plot.py at 2018-01-27 06:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.74 Mbit/s

95th percentile per-packet one-way delay: 70.934 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.92 Mbit/s

95th percentile per-packet one-way delay: 70.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.51 Mbit/s

95th percentile per-packet one-way delay: 71.108 ms

Loss rate: 0.00%

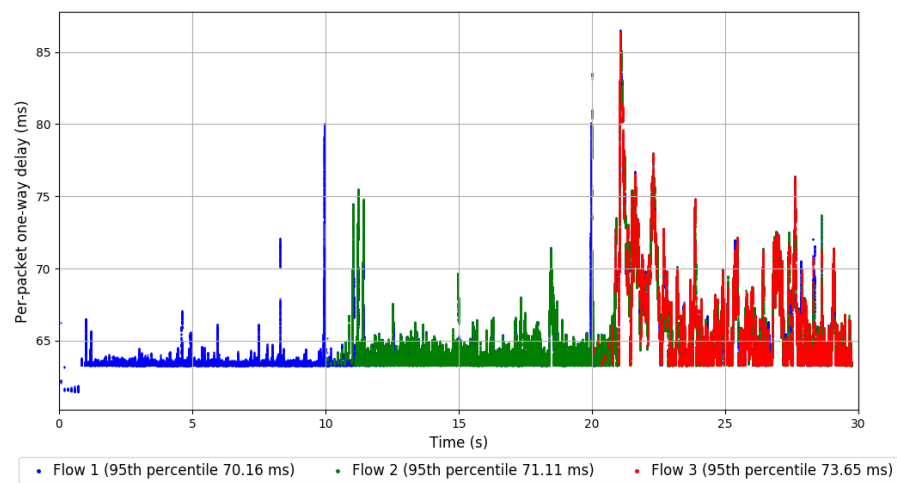
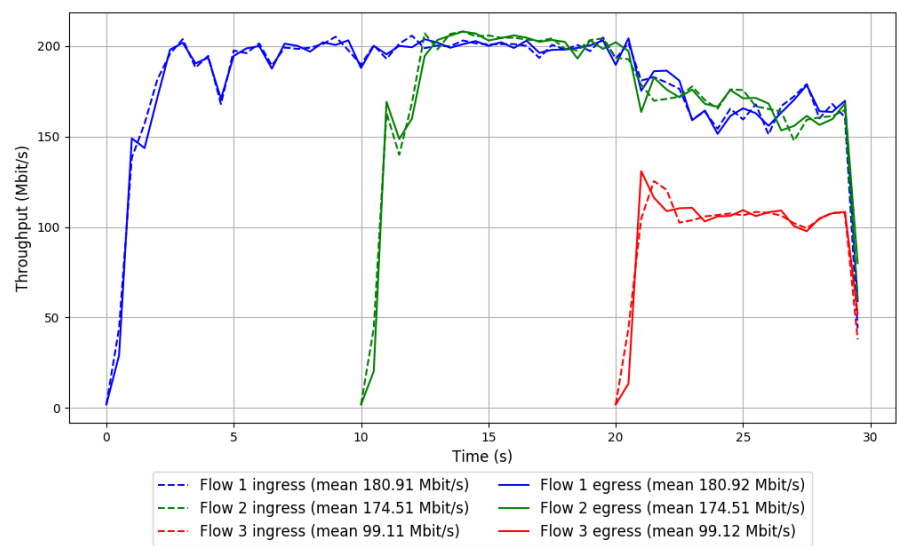
-- Flow 3:

Average throughput: 99.12 Mbit/s

95th percentile per-packet one-way delay: 73.653 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-27 04:18:16

End at: 2018-01-27 04:18:46

Below is generated by plot.py at 2018-01-27 06:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.05 Mbit/s

95th percentile per-packet one-way delay: 74.367 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 164.76 Mbit/s

95th percentile per-packet one-way delay: 73.422 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.17 Mbit/s

95th percentile per-packet one-way delay: 75.244 ms

Loss rate: 0.01%

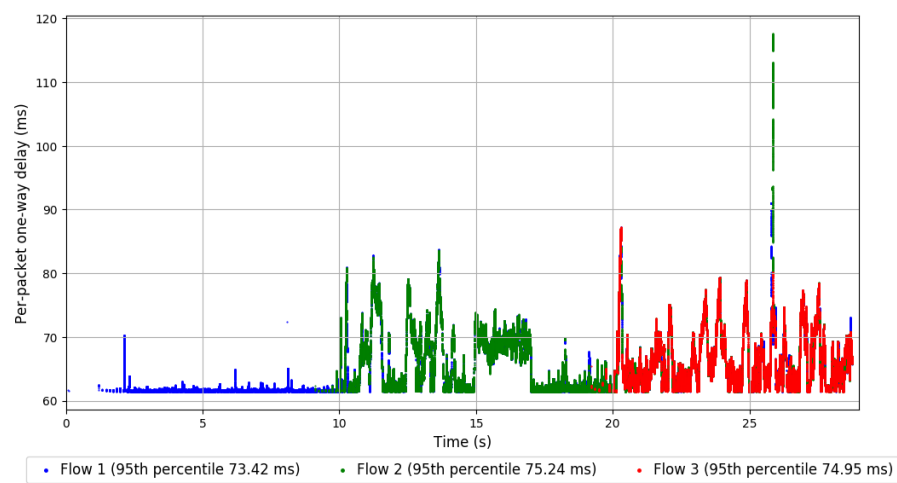
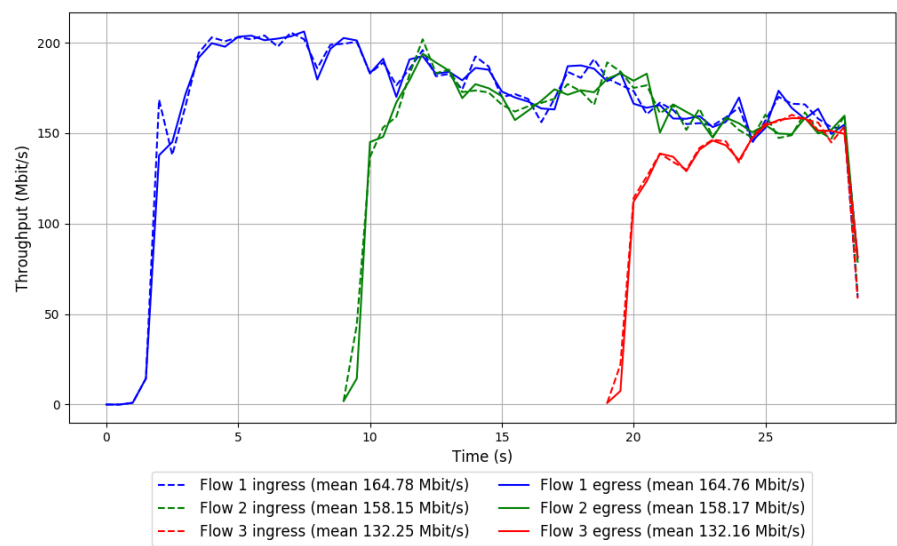
-- Flow 3:

Average throughput: 132.16 Mbit/s

95th percentile per-packet one-way delay: 74.948 ms

Loss rate: 0.04%

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

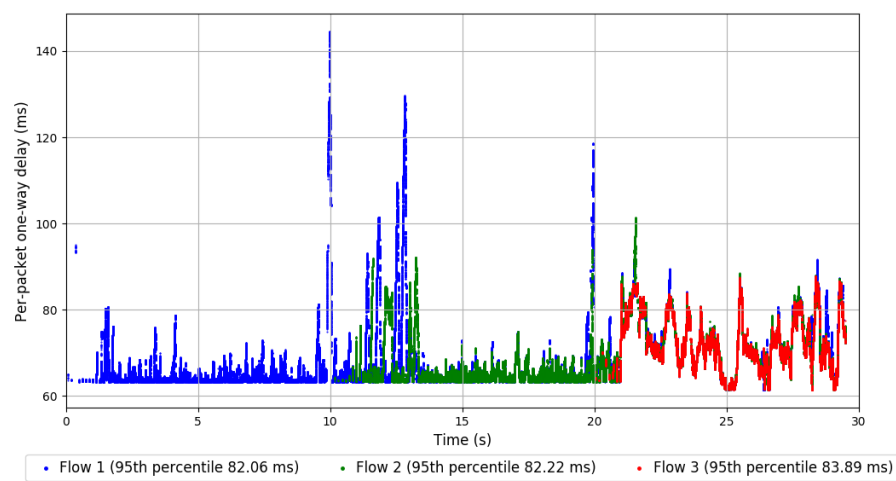
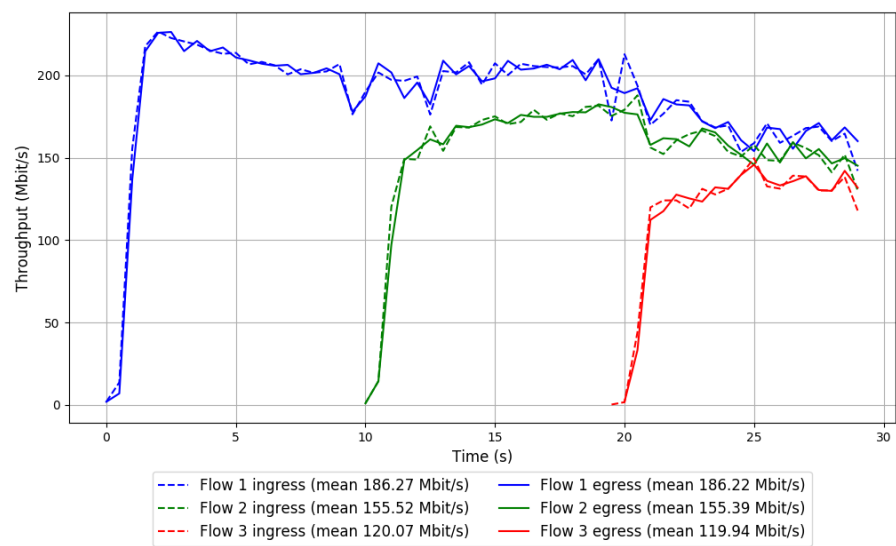


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-27 02:08:09
End at: 2018-01-27 02:08:39

# Below is generated by plot.py at 2018-01-27 06:48:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.70 Mbit/s
95th percentile per-packet one-way delay: 82.480 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 186.22 Mbit/s
95th percentile per-packet one-way delay: 82.063 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 155.39 Mbit/s
95th percentile per-packet one-way delay: 82.223 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 119.94 Mbit/s
95th percentile per-packet one-way delay: 83.885 ms
Loss rate: 0.14%
```

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

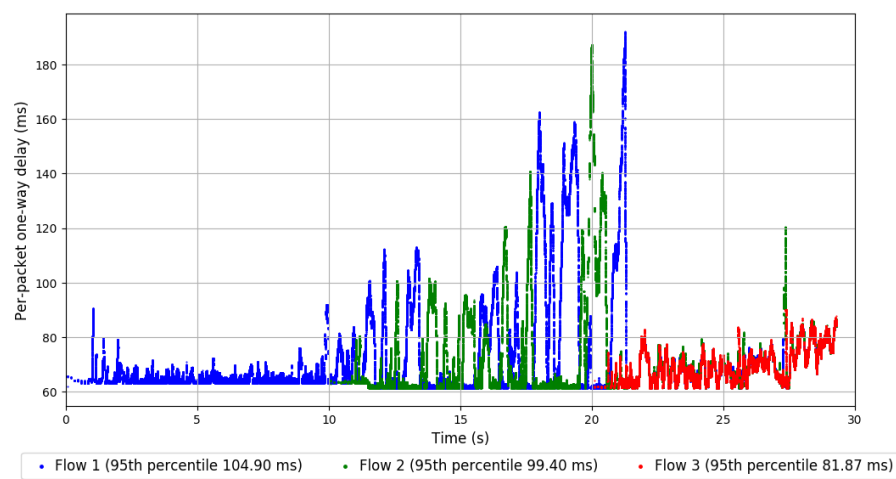
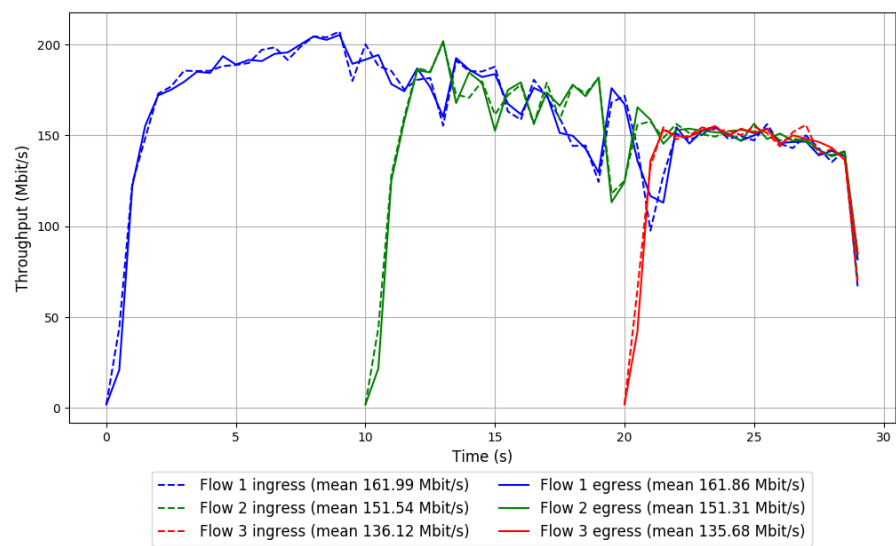


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-27 02:22:19
End at: 2018-01-27 02:22:49

# Below is generated by plot.py at 2018-01-27 06:48:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.00 Mbit/s
95th percentile per-packet one-way delay: 98.845 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 161.86 Mbit/s
95th percentile per-packet one-way delay: 104.898 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 151.31 Mbit/s
95th percentile per-packet one-way delay: 99.400 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 135.68 Mbit/s
95th percentile per-packet one-way delay: 81.868 ms
Loss rate: 0.22%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-27 02:36:31

End at: 2018-01-27 02:37:01

Below is generated by plot.py at 2018-01-27 06:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.27 Mbit/s

95th percentile per-packet one-way delay: 104.210 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 184.46 Mbit/s

95th percentile per-packet one-way delay: 100.798 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 163.55 Mbit/s

95th percentile per-packet one-way delay: 104.750 ms

Loss rate: 0.06%

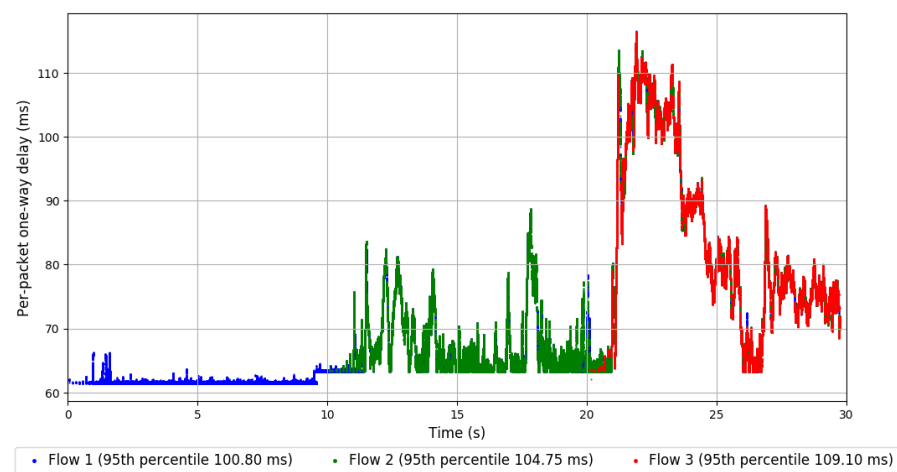
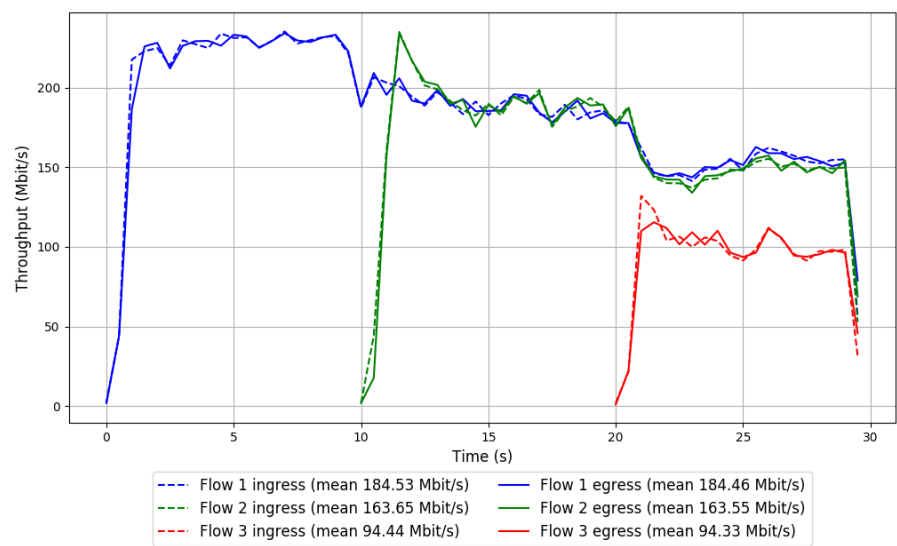
-- Flow 3:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 109.101 ms

Loss rate: 0.06%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-27 02:51:21

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

Below is generated by plot.py at 2018-01-27 06:49:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.70 Mbit/s

95th percentile per-packet one-way delay: 74.155 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 192.74 Mbit/s

95th percentile per-packet one-way delay: 70.086 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.47 Mbit/s

95th percentile per-packet one-way delay: 74.743 ms

Loss rate: 0.00%

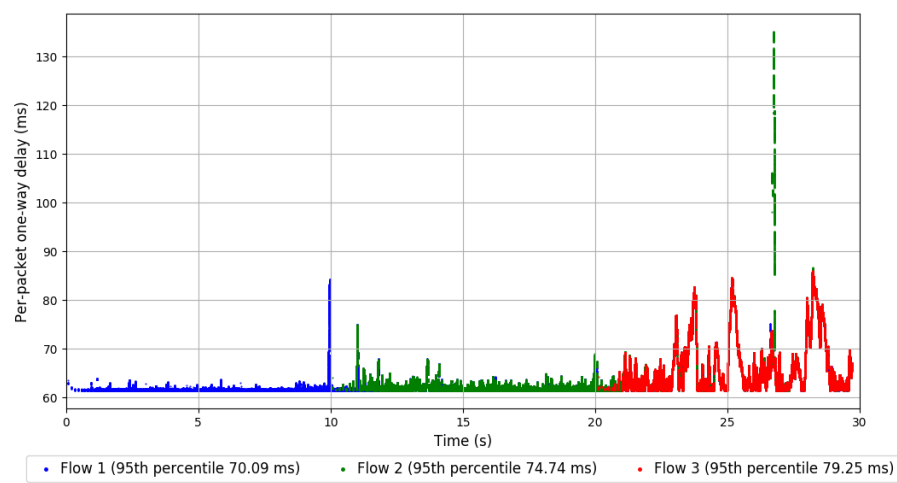
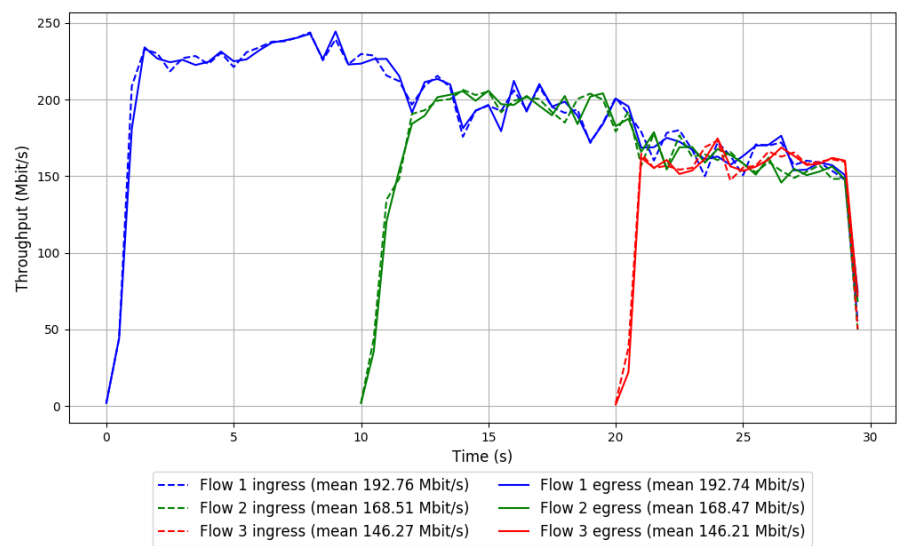
-- Flow 3:

Average throughput: 146.21 Mbit/s

95th percentile per-packet one-way delay: 79.253 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-27 03:05:50

End at: 2018-01-27 03:06:20

Below is generated by plot.py at 2018-01-27 06:50:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.93 Mbit/s

95th percentile per-packet one-way delay: 82.922 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.60 Mbit/s

95th percentile per-packet one-way delay: 77.600 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.24 Mbit/s

95th percentile per-packet one-way delay: 83.926 ms

Loss rate: 0.00%

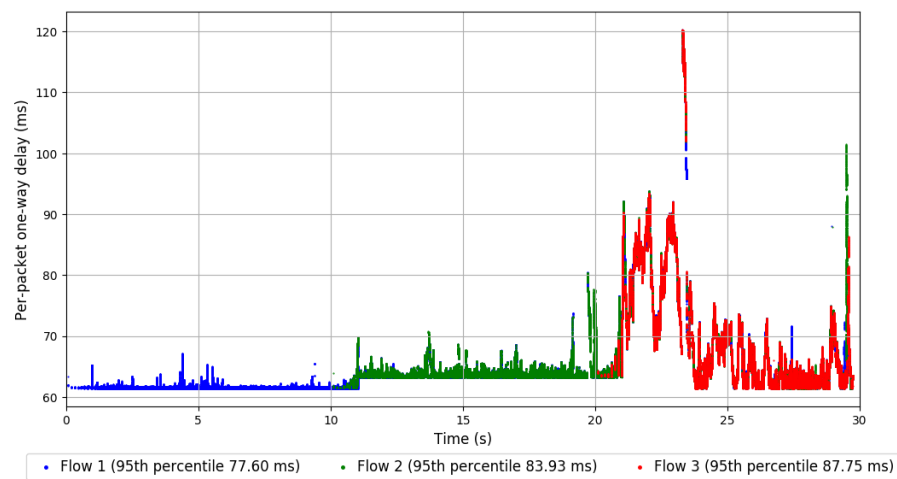
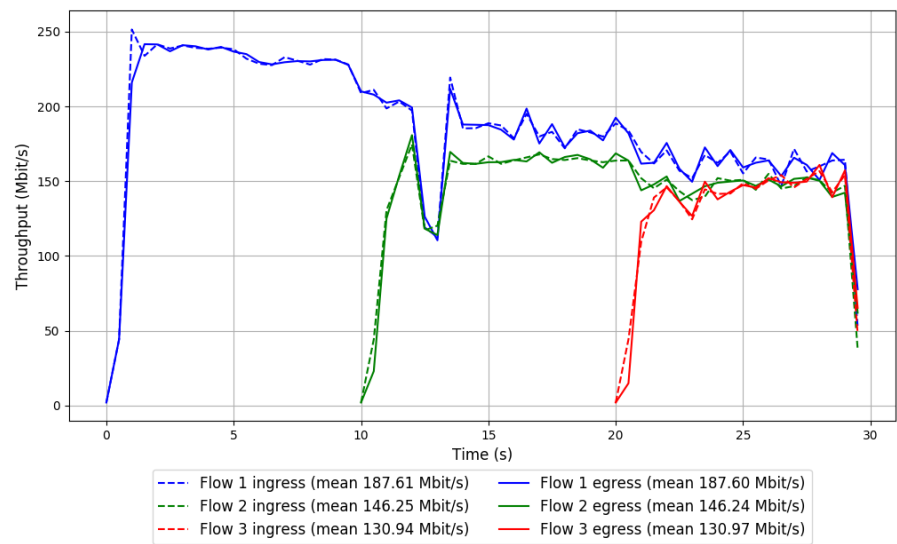
-- Flow 3:

Average throughput: 130.97 Mbit/s

95th percentile per-packet one-way delay: 87.745 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-27 03:20:37

End at: 2018-01-27 03:21:07

Below is generated by plot.py at 2018-01-27 06:51:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.85 Mbit/s

95th percentile per-packet one-way delay: 86.233 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 187.07 Mbit/s

95th percentile per-packet one-way delay: 83.398 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 178.90 Mbit/s

95th percentile per-packet one-way delay: 86.349 ms

Loss rate: 0.01%

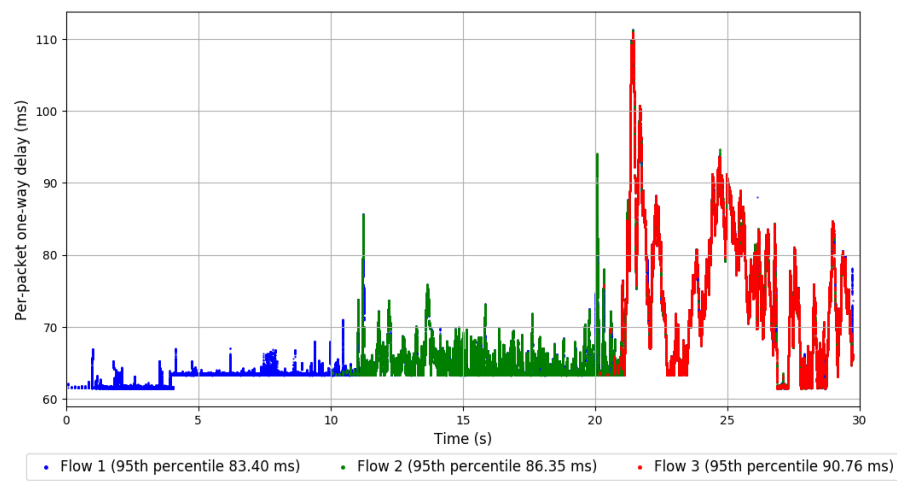
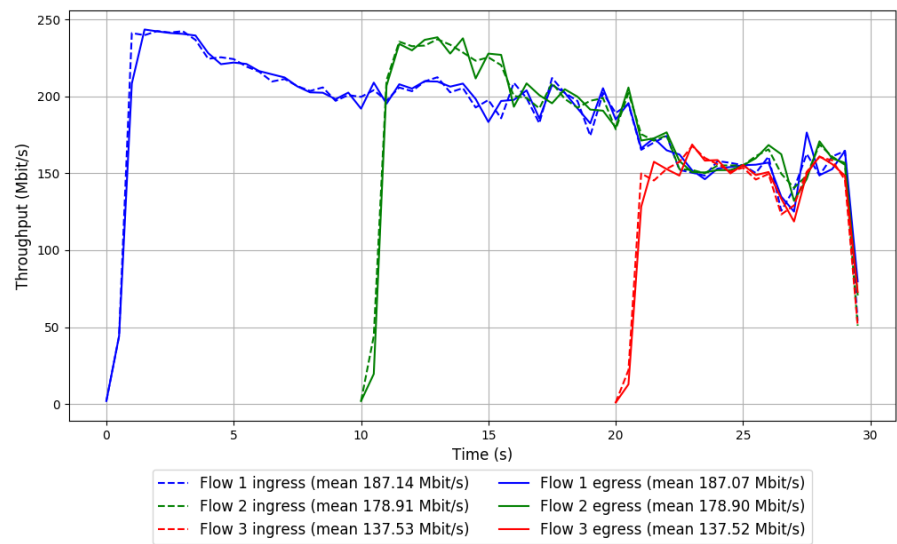
-- Flow 3:

Average throughput: 137.52 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.01%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-27 03:35:15

End at: 2018-01-27 03:35:45

Below is generated by plot.py at 2018-01-27 06:52:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.31 Mbit/s

95th percentile per-packet one-way delay: 91.379 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.72 Mbit/s

95th percentile per-packet one-way delay: 86.631 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.16 Mbit/s

95th percentile per-packet one-way delay: 92.856 ms

Loss rate: 0.00%

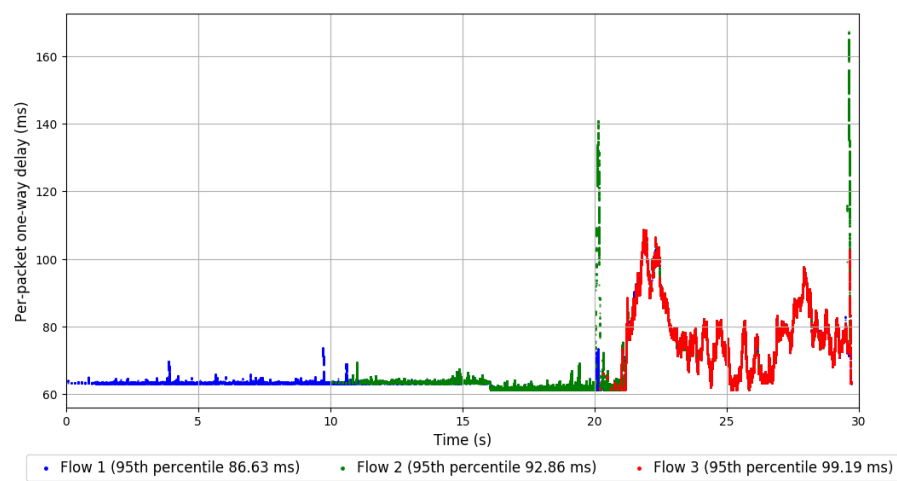
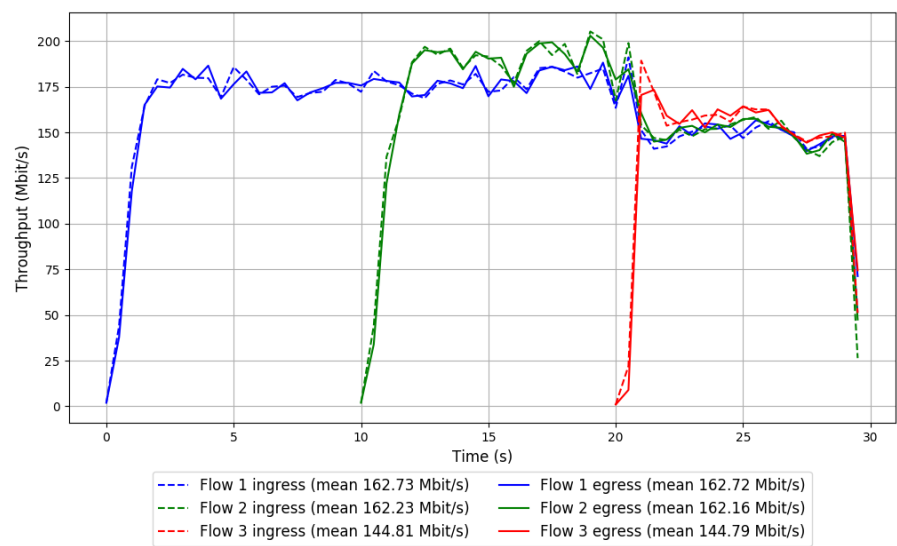
-- Flow 3:

Average throughput: 144.79 Mbit/s

95th percentile per-packet one-way delay: 99.190 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-27 03:49:54

End at: 2018-01-27 03:50:24

Below is generated by plot.py at 2018-01-27 06:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.30 Mbit/s

95th percentile per-packet one-way delay: 77.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.73 Mbit/s

95th percentile per-packet one-way delay: 75.639 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.95 Mbit/s

95th percentile per-packet one-way delay: 78.196 ms

Loss rate: 0.00%

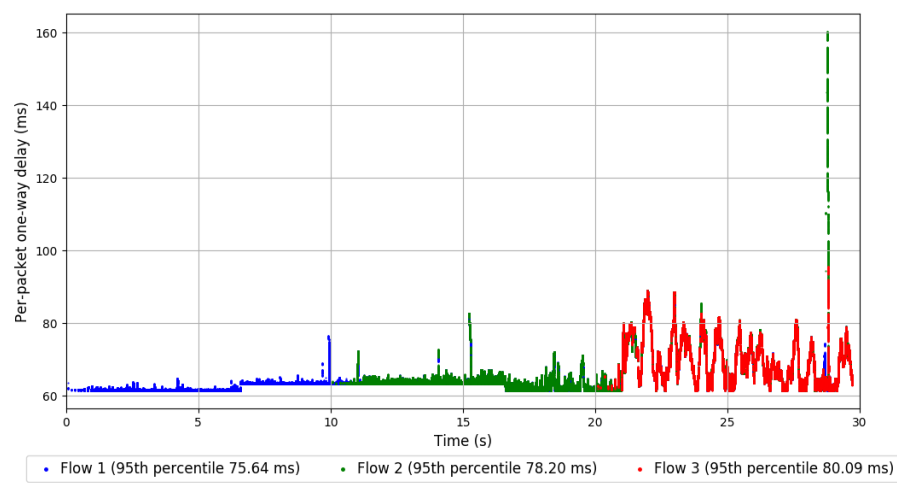
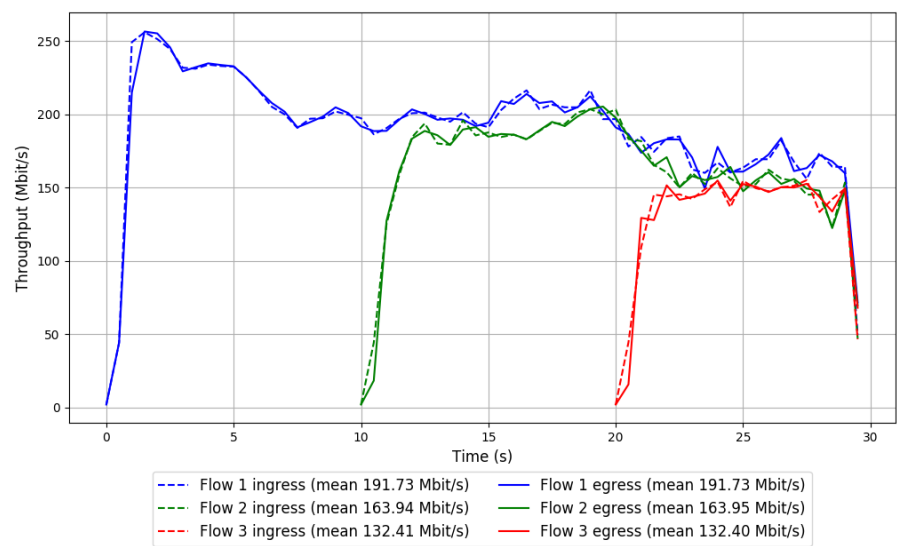
-- Flow 3:

Average throughput: 132.40 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-27 04:04:35

End at: 2018-01-27 04:05:05

Below is generated by plot.py at 2018-01-27 06:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 78.953 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 194.58 Mbit/s

95th percentile per-packet one-way delay: 75.772 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.68 Mbit/s

95th percentile per-packet one-way delay: 79.294 ms

Loss rate: 0.00%

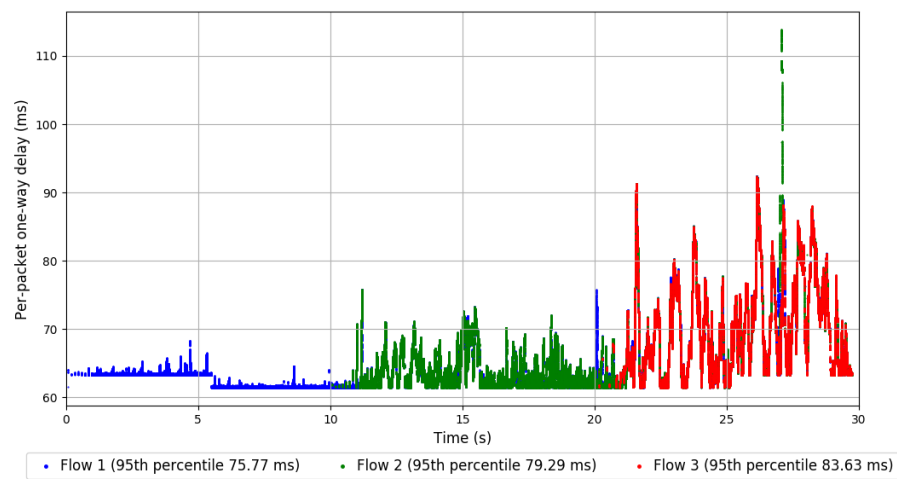
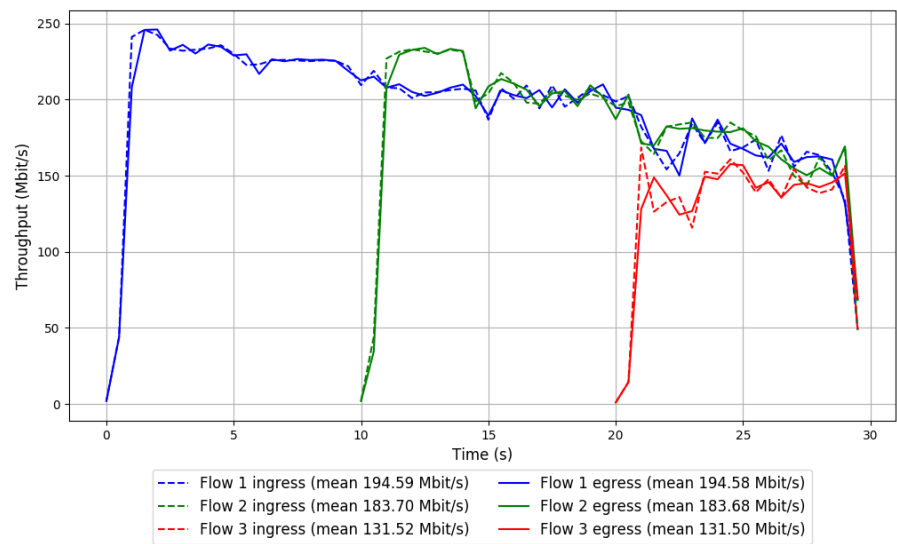
-- Flow 3:

Average throughput: 131.50 Mbit/s

95th percentile per-packet one-way delay: 83.629 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-27 04:19:20

End at: 2018-01-27 04:19:50

Below is generated by plot.py at 2018-01-27 06:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.29 Mbit/s

95th percentile per-packet one-way delay: 97.506 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 192.58 Mbit/s

95th percentile per-packet one-way delay: 93.509 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 173.44 Mbit/s

95th percentile per-packet one-way delay: 97.802 ms

Loss rate: 0.04%

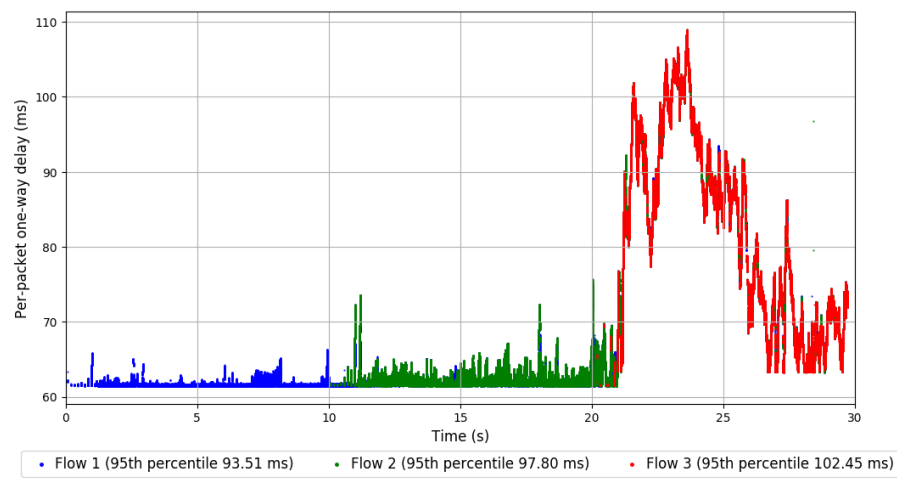
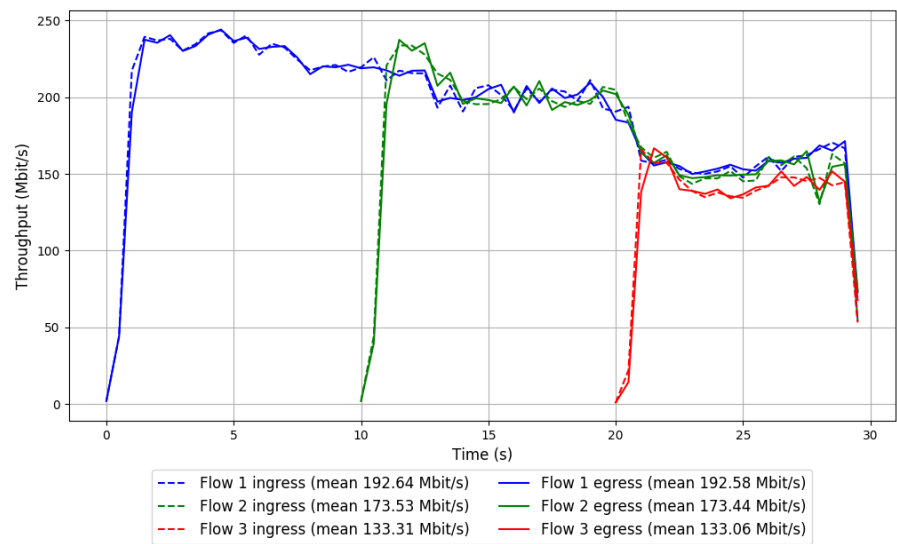
-- Flow 3:

Average throughput: 133.06 Mbit/s

95th percentile per-packet one-way delay: 102.454 ms

Loss rate: 0.16%

Run 10: Report of Indigo-1-32 — Data Link

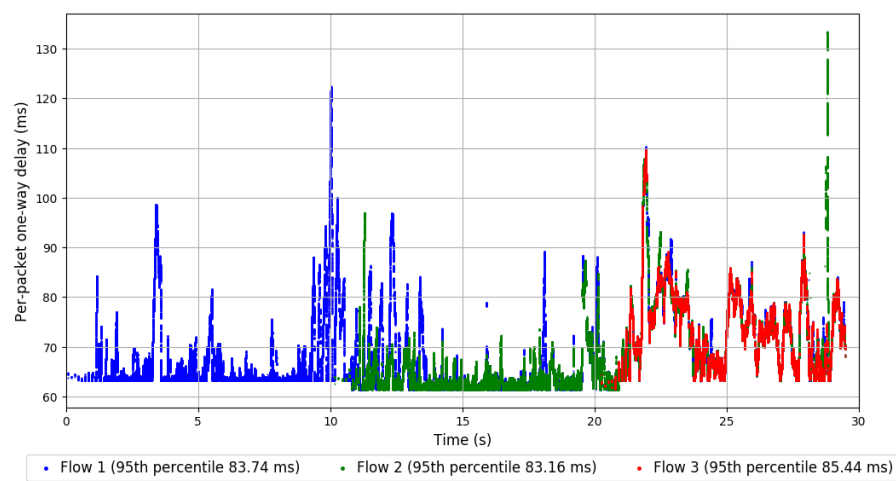
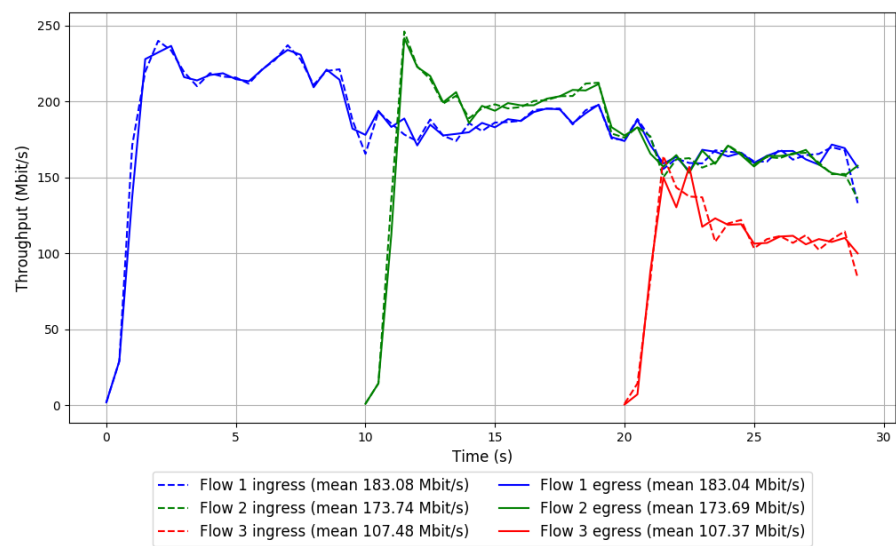


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-27 02:10:50
End at: 2018-01-27 02:11:20

# Below is generated by plot.py at 2018-01-27 06:54:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.66 Mbit/s
95th percentile per-packet one-way delay: 83.948 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 183.04 Mbit/s
95th percentile per-packet one-way delay: 83.744 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 173.69 Mbit/s
95th percentile per-packet one-way delay: 83.155 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 107.37 Mbit/s
95th percentile per-packet one-way delay: 85.442 ms
Loss rate: 0.07%
```


Run 1: Report of Indigo-1-128 — Data Link



Run 2: Statistics of Indigo-1-128

Start at: 2018-01-27 02:24:54

End at: 2018-01-27 02:25:24

Below is generated by plot.py at 2018-01-27 06:55:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.67 Mbit/s

95th percentile per-packet one-way delay: 102.536 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 95.432 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 158.90 Mbit/s

95th percentile per-packet one-way delay: 114.943 ms

Loss rate: 0.06%

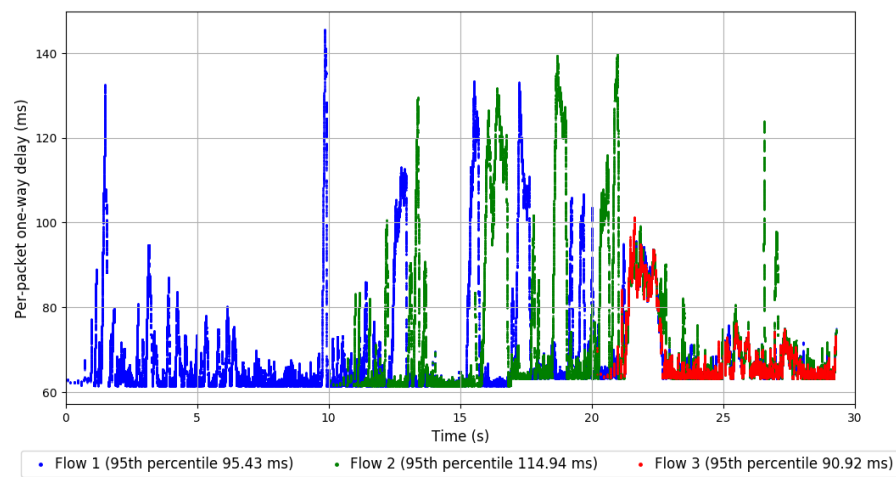
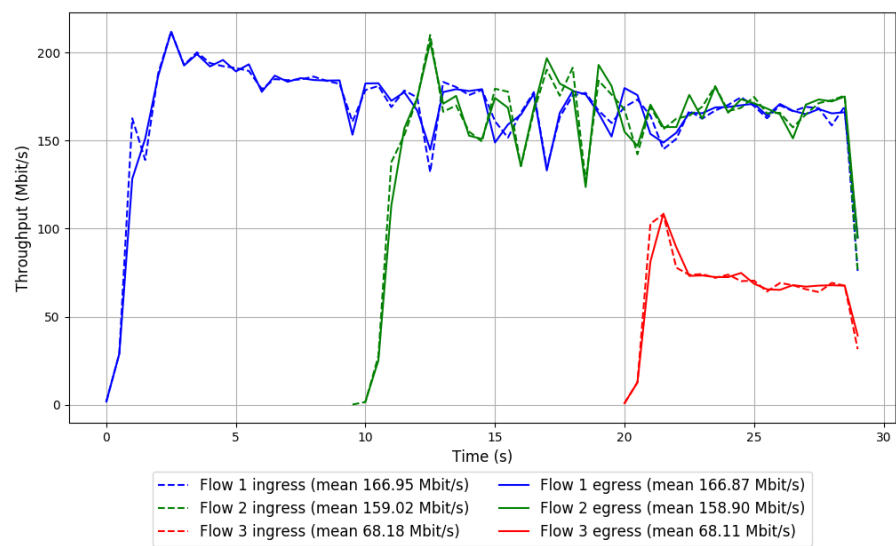
-- Flow 3:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 90.923 ms

Loss rate: 0.01%

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-27 02:39:19

End at: 2018-01-27 02:39:49

Below is generated by plot.py at 2018-01-27 06:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.97 Mbit/s

95th percentile per-packet one-way delay: 69.635 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 180.30 Mbit/s

95th percentile per-packet one-way delay: 68.418 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 191.76 Mbit/s

95th percentile per-packet one-way delay: 70.121 ms

Loss rate: 0.01%

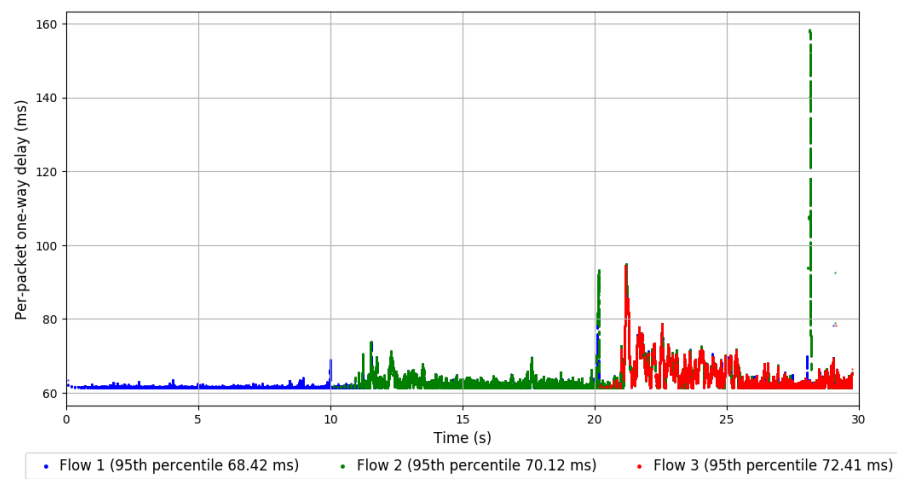
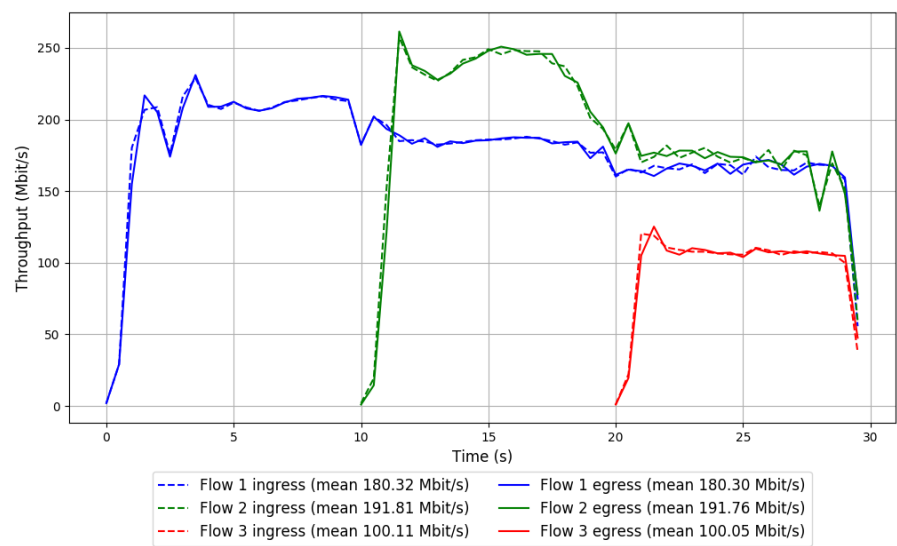
-- Flow 3:

Average throughput: 100.05 Mbit/s

95th percentile per-packet one-way delay: 72.413 ms

Loss rate: 0.03%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-27 02:53:59

End at: 2018-01-27 02:54:29

Below is generated by plot.py at 2018-01-27 06:57:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.53 Mbit/s

95th percentile per-packet one-way delay: 75.366 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.51 Mbit/s

95th percentile per-packet one-way delay: 71.505 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.91 Mbit/s

95th percentile per-packet one-way delay: 75.669 ms

Loss rate: 0.00%

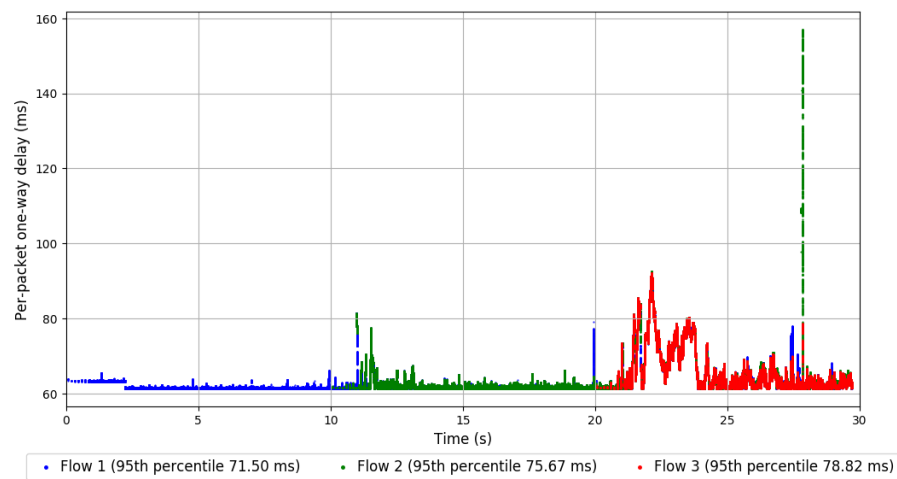
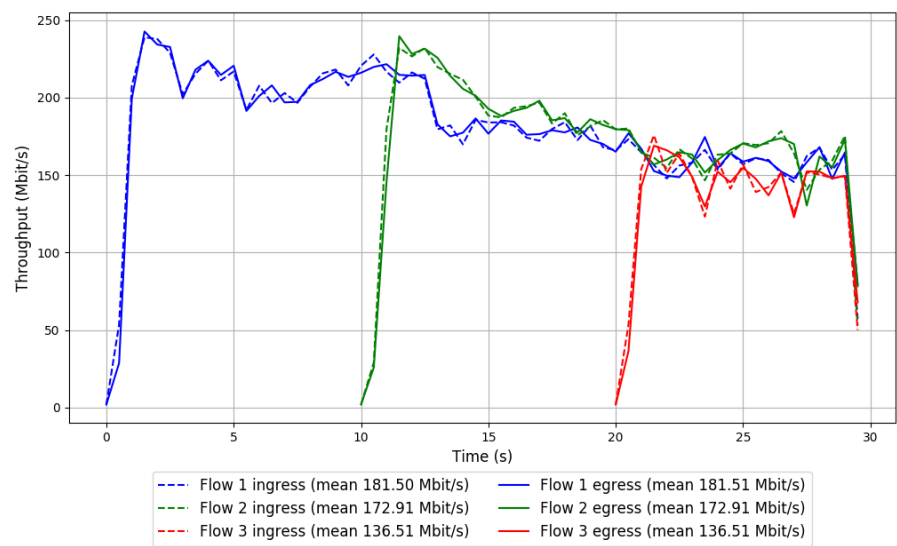
-- Flow 3:

Average throughput: 136.51 Mbit/s

95th percentile per-packet one-way delay: 78.817 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-27 03:08:35

End at: 2018-01-27 03:09:05

Below is generated by plot.py at 2018-01-27 06:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.06 Mbit/s

95th percentile per-packet one-way delay: 76.635 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.50 Mbit/s

95th percentile per-packet one-way delay: 72.131 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.81 Mbit/s

95th percentile per-packet one-way delay: 76.942 ms

Loss rate: 0.00%

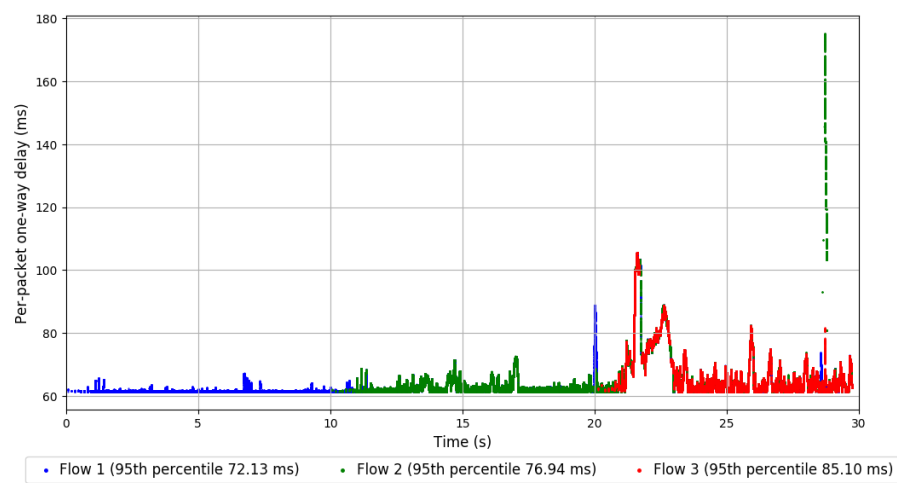
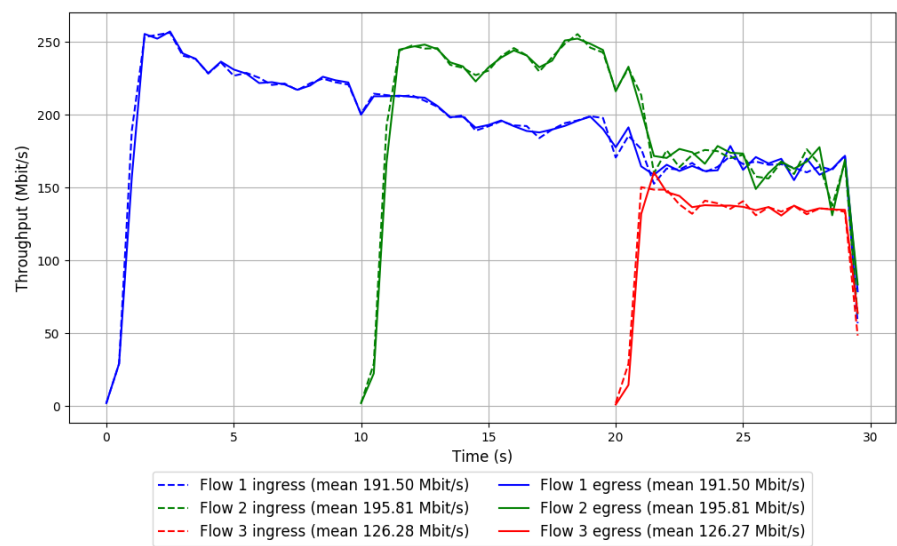
-- Flow 3:

Average throughput: 126.27 Mbit/s

95th percentile per-packet one-way delay: 85.103 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-27 03:23:28

End at: 2018-01-27 03:23:58

Below is generated by plot.py at 2018-01-27 06:58:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.52 Mbit/s

95th percentile per-packet one-way delay: 78.217 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 198.61 Mbit/s

95th percentile per-packet one-way delay: 75.000 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.95 Mbit/s

95th percentile per-packet one-way delay: 79.085 ms

Loss rate: 0.00%

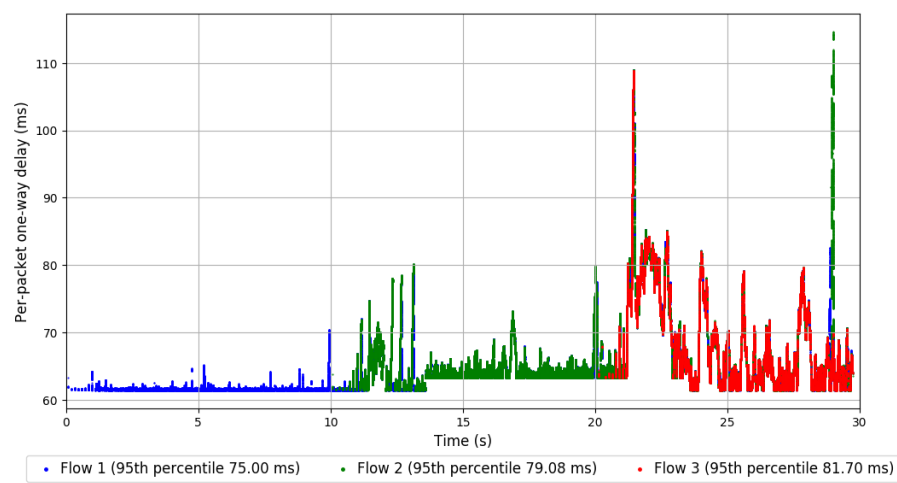
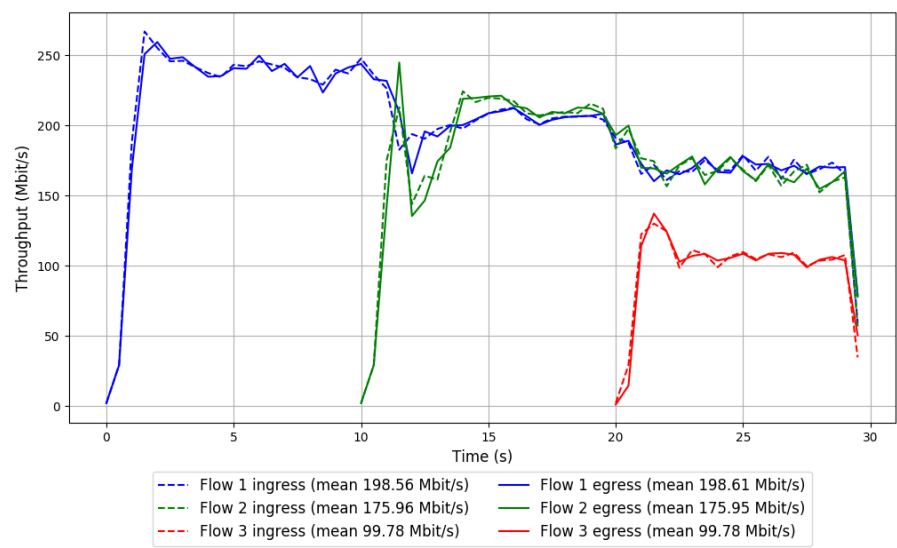
-- Flow 3:

Average throughput: 99.78 Mbit/s

95th percentile per-packet one-way delay: 81.701 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-27 03:38:00

End at: 2018-01-27 03:38:31

Below is generated by plot.py at 2018-01-27 06:59:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.99 Mbit/s

95th percentile per-packet one-way delay: 83.139 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 187.31 Mbit/s

95th percentile per-packet one-way delay: 77.353 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 170.75 Mbit/s

95th percentile per-packet one-way delay: 85.362 ms

Loss rate: 0.11%

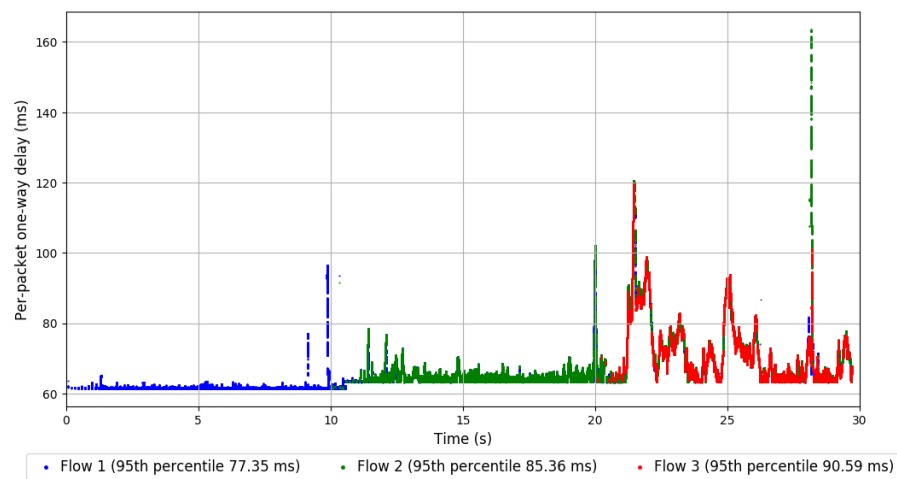
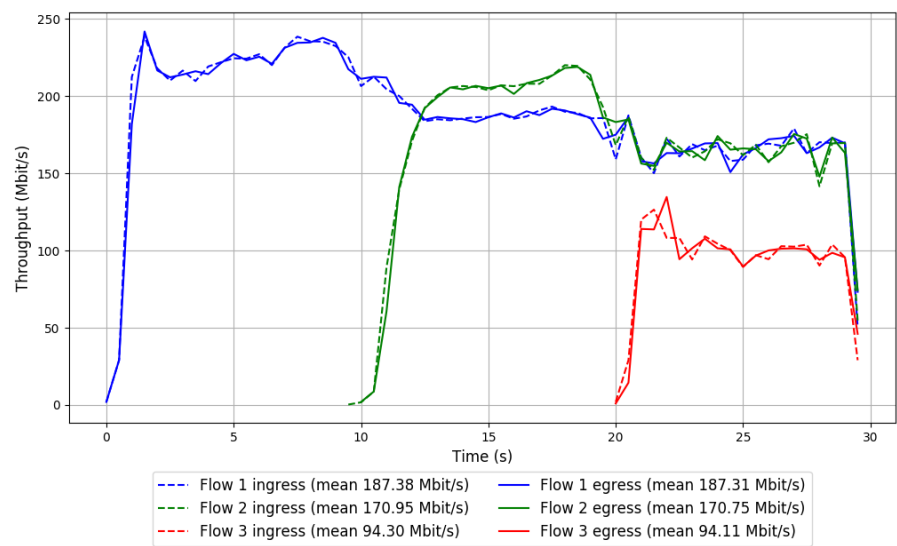
-- Flow 3:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 90.594 ms

Loss rate: 0.17%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-27 03:52:42

End at: 2018-01-27 03:53:12

Below is generated by plot.py at 2018-01-27 06:59:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.39 Mbit/s

95th percentile per-packet one-way delay: 75.973 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 196.15 Mbit/s

95th percentile per-packet one-way delay: 73.982 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 172.45 Mbit/s

95th percentile per-packet one-way delay: 76.530 ms

Loss rate: 0.15%

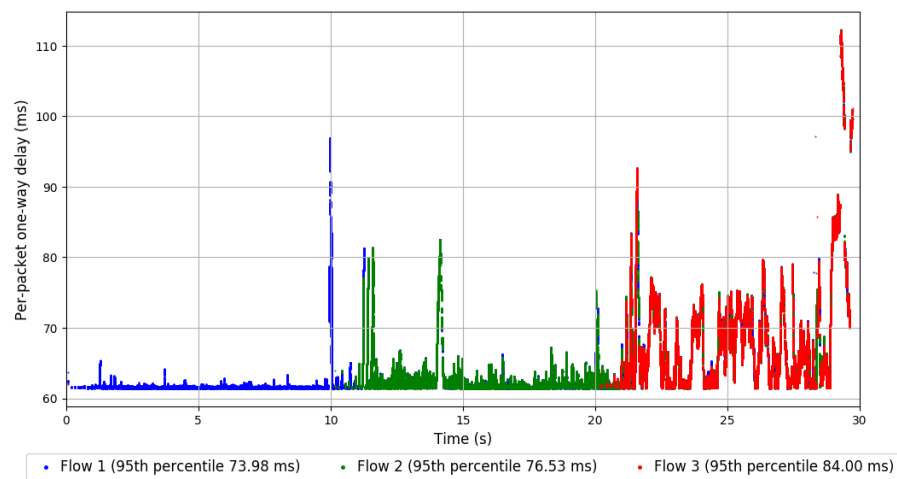
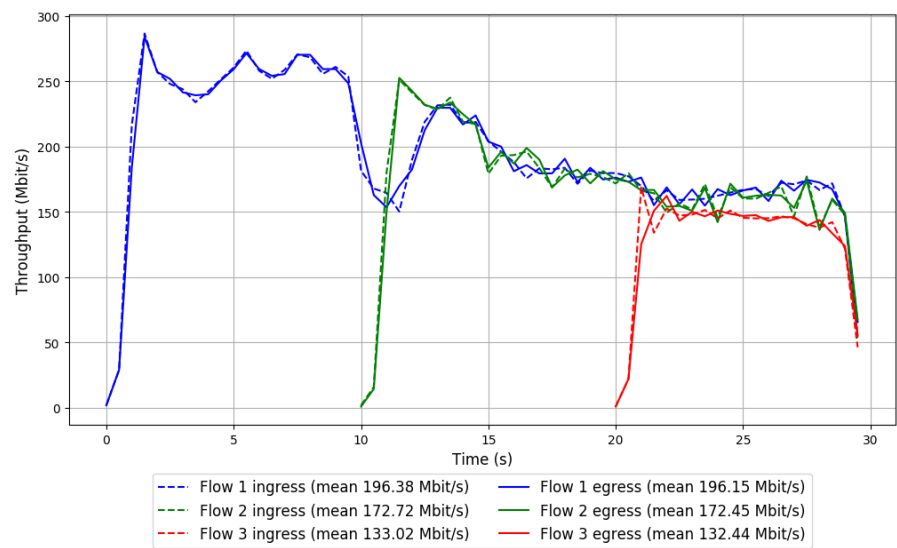
-- Flow 3:

Average throughput: 132.44 Mbit/s

95th percentile per-packet one-way delay: 83.996 ms

Loss rate: 0.42%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-27 04:07:25

End at: 2018-01-27 04:07:55

Below is generated by plot.py at 2018-01-27 06:59:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.50 Mbit/s

95th percentile per-packet one-way delay: 73.314 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 191.68 Mbit/s

95th percentile per-packet one-way delay: 70.532 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 174.72 Mbit/s

95th percentile per-packet one-way delay: 74.141 ms

Loss rate: 0.03%

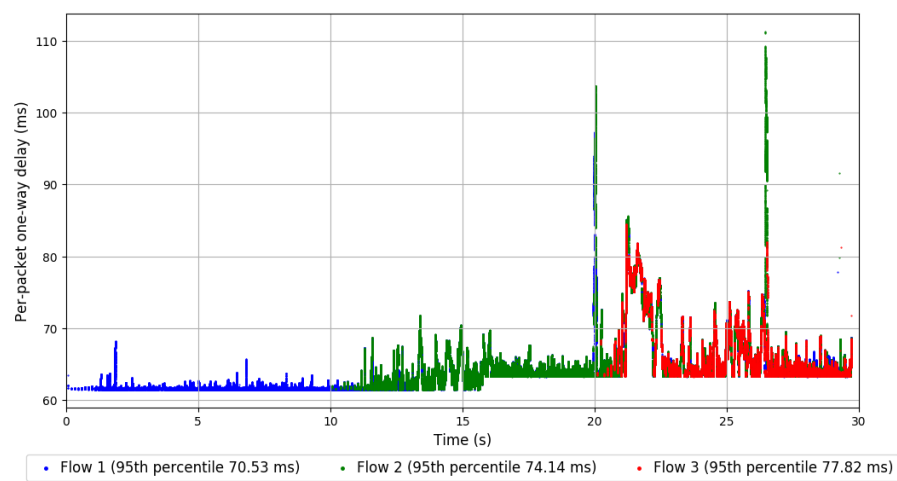
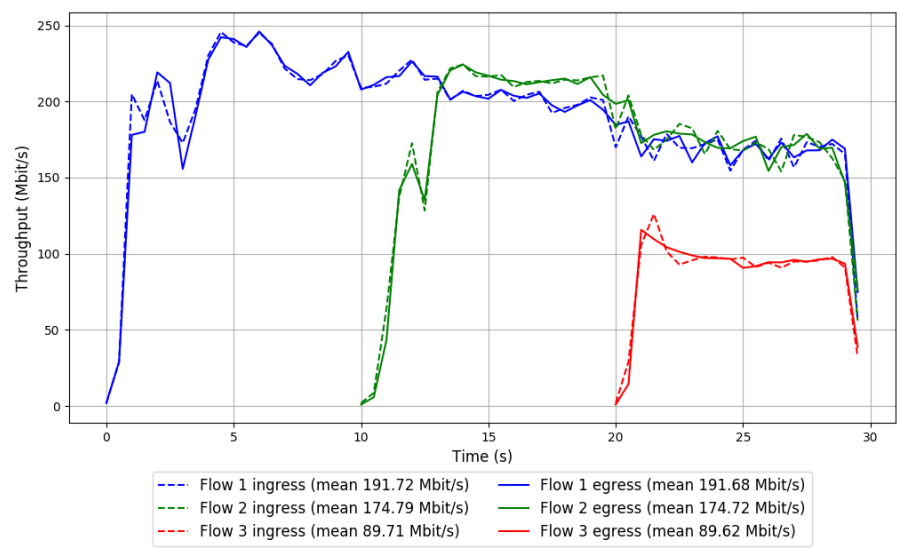
-- Flow 3:

Average throughput: 89.62 Mbit/s

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

Loss rate: 0.08%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-27 04:22:02

End at: 2018-01-27 04:22:32

Below is generated by plot.py at 2018-01-27 06:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.56 Mbit/s

95th percentile per-packet one-way delay: 75.688 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 192.06 Mbit/s

95th percentile per-packet one-way delay: 73.973 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 176.49 Mbit/s

95th percentile per-packet one-way delay: 77.697 ms

Loss rate: 0.08%

-- Flow 3:

Average throughput: 128.01 Mbit/s

95th percentile per-packet one-way delay: 76.242 ms

Loss rate: 0.21%

Run 10: Report of Indigo-1-128 — Data Link

