

Pantheon Report

Generated at 2017-12-06 02:39:24 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

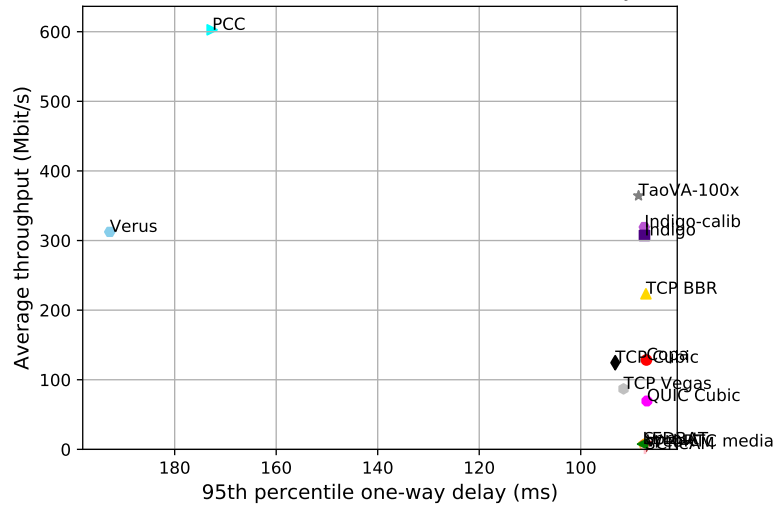
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

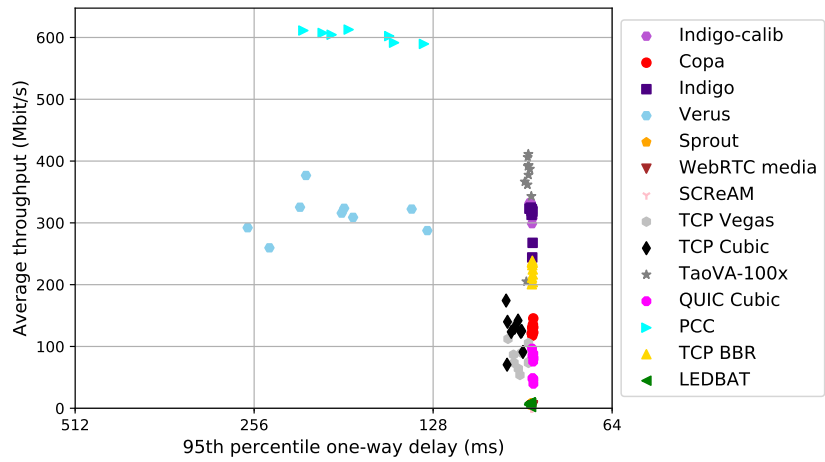
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



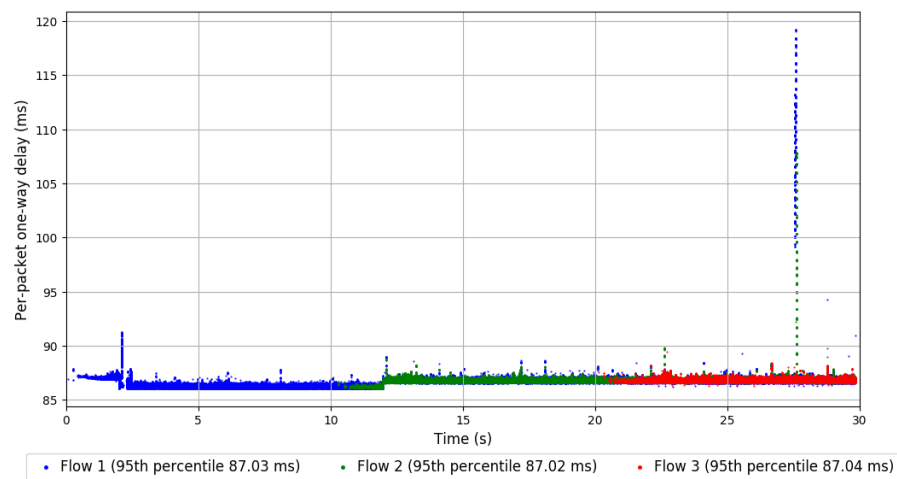
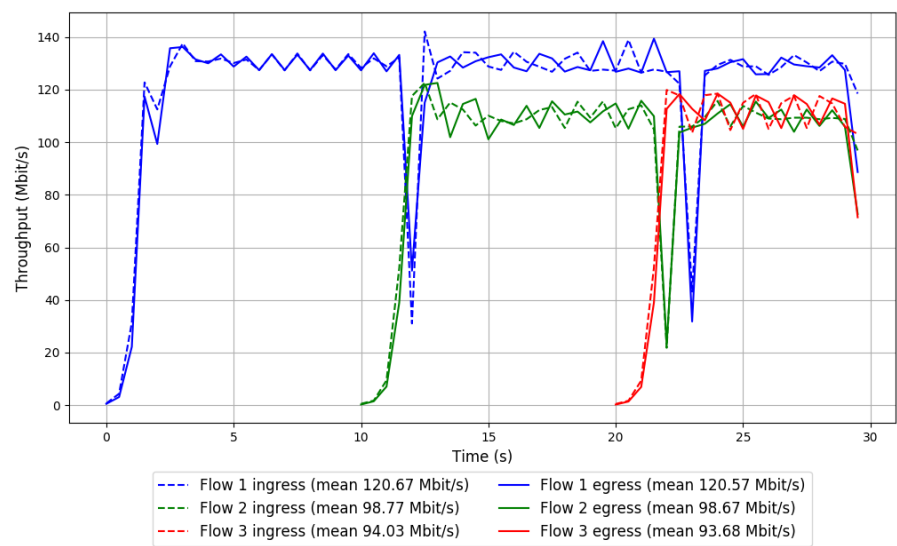
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	117.18	108.11	105.71	87.13	87.14	87.41	0.67	1.07	2.24
TCP Cubic	10	56.16	67.22	70.42	91.56	93.28	95.20	1.76	1.11	2.48
LEDBAT	10	4.64	3.31	2.39	87.92	87.63	87.57	1.27	1.75	3.56
PCC	7	564.27	43.69	19.70	174.44	166.11	167.34	1.84	1.37	2.73
QUIC Cubic	10	81.74	42.25	26.28	88.38	86.95	86.79	0.52	1.62	1.31
SCReAM	6	55.55	0.22	0.22	464.68	87.18	86.92	0.58	0.99	1.69
WebRTC media	10	2.27	1.33	0.50	87.01	87.10	87.04	1.12	1.48	3.13
Sprout	10	3.82	3.78	3.20	87.57	87.60	87.53	1.02	1.32	2.97
TaoVA-100x	10	191.59	195.98	170.46	88.19	89.16	88.82	0.71	1.15	2.96
TCP Vegas	10	32.96	45.31	73.03	89.15	90.82	92.45	0.70	0.82	1.75
Verus	9	200.76	134.12	75.47	195.49	179.05	186.81	2.12	2.34	4.32
Copa	10	75.41	64.01	43.17	86.96	87.04	87.17	0.49	1.00	4.14
Indigo	10	157.79	160.14	135.06	87.16	87.76	87.69	0.54	0.94	1.93
Indigo-calib	10	168.86	159.90	134.37	87.28	87.69	87.67	0.69	1.11	2.39

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-05 21:13:44
End at: 2017-12-05 21:14:14

# Below is generated by plot.py at 2017-12-06 01:42:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.57 Mbit/s
95th percentile per-packet one-way delay: 87.027 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 120.57 Mbit/s
95th percentile per-packet one-way delay: 87.027 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 98.67 Mbit/s
95th percentile per-packet one-way delay: 87.017 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 87.044 ms
Loss rate: 2.43%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-05 21:27:21

End at: 2017-12-05 21:27:51

Below is generated by plot.py at 2017-12-06 01:42:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.70 Mbit/s

95th percentile per-packet one-way delay: 87.329 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 103.46 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 100.09 Mbit/s

95th percentile per-packet one-way delay: 87.322 ms

Loss rate: 1.11%

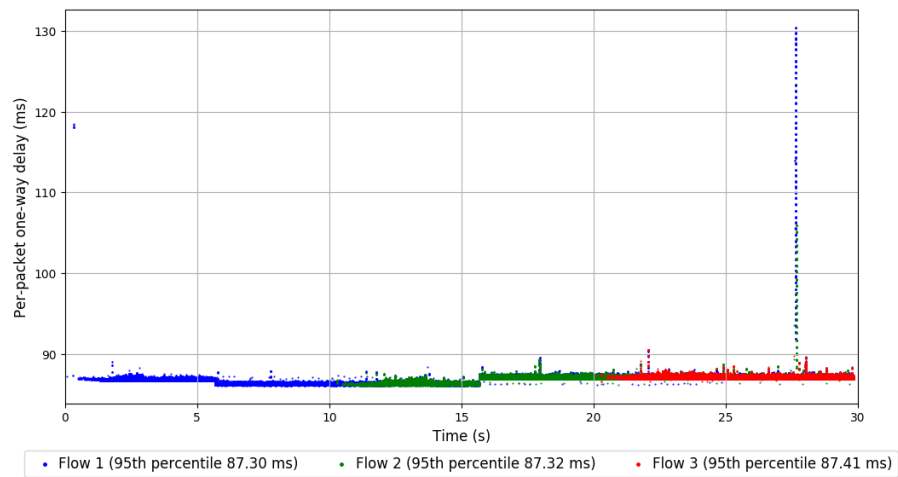
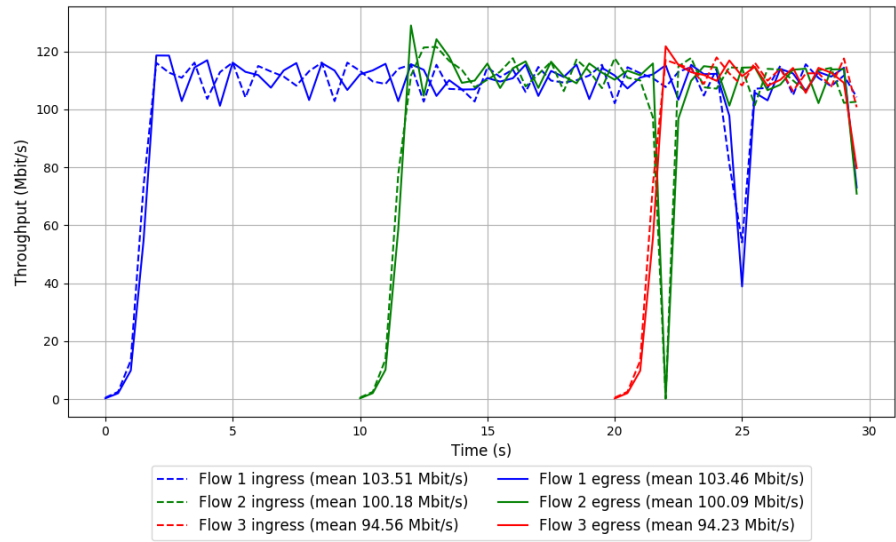
-- Flow 3:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 87.409 ms

Loss rate: 2.41%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-05 21:41:08

End at: 2017-12-05 21:41:38

Below is generated by plot.py at 2017-12-06 01:42:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.23 Mbit/s

95th percentile per-packet one-way delay: 87.019 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 102.17 Mbit/s

95th percentile per-packet one-way delay: 87.019 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 98.80 Mbit/s

95th percentile per-packet one-way delay: 86.980 ms

Loss rate: 1.23%

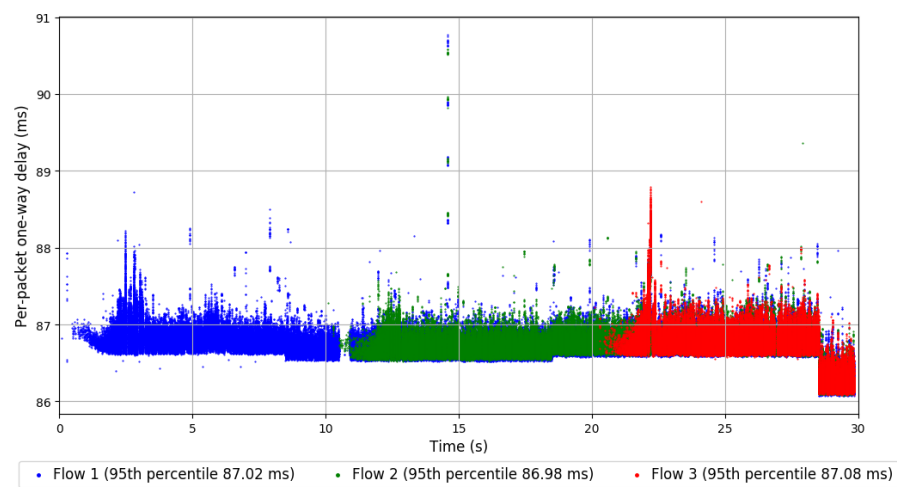
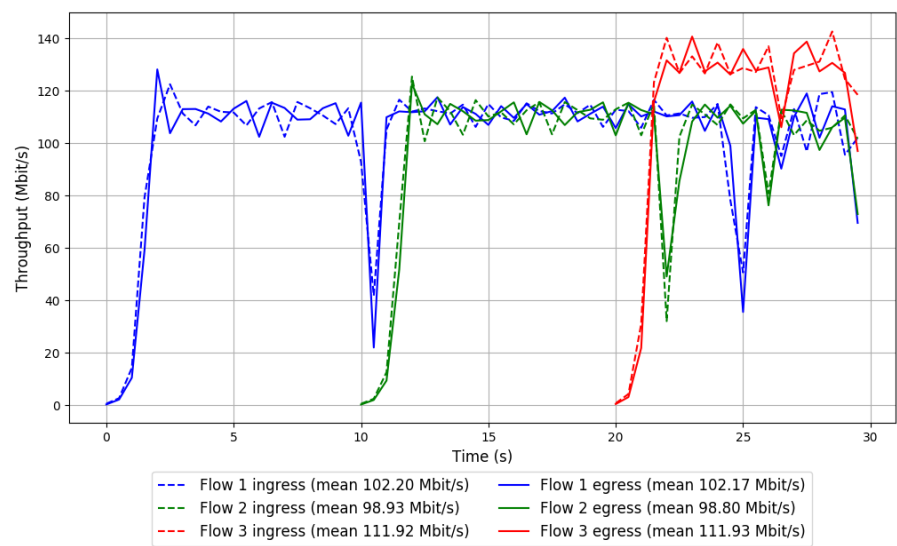
-- Flow 3:

Average throughput: 111.93 Mbit/s

95th percentile per-packet one-way delay: 87.077 ms

Loss rate: 2.20%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-05 21:54:43

End at: 2017-12-05 21:55:13

Below is generated by plot.py at 2017-12-06 01:42:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.59 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 121.42 Mbit/s

95th percentile per-packet one-way delay: 86.999 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 100.93 Mbit/s

95th percentile per-packet one-way delay: 87.012 ms

Loss rate: 1.25%

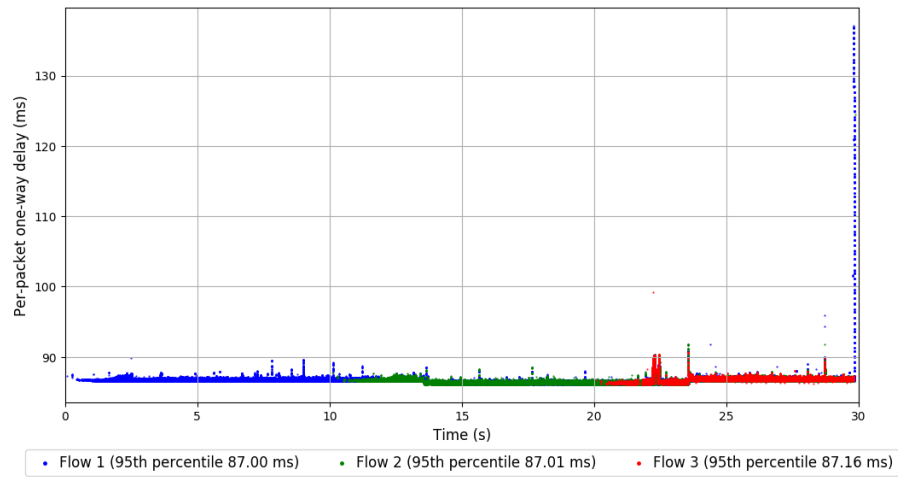
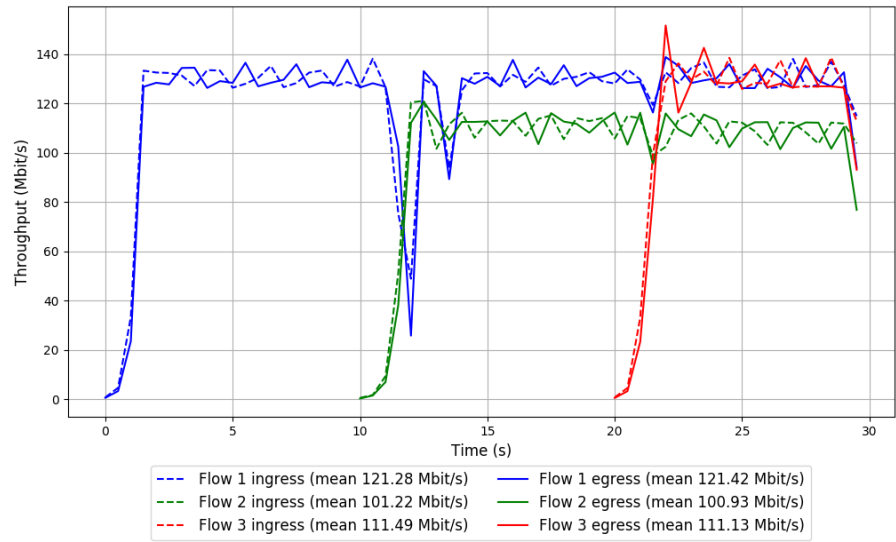
-- Flow 3:

Average throughput: 111.13 Mbit/s

95th percentile per-packet one-way delay: 87.163 ms

Loss rate: 2.17%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-05 22:08:41

End at: 2017-12-05 22:09:11

Below is generated by plot.py at 2017-12-06 01:42:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.39 Mbit/s

95th percentile per-packet one-way delay: 87.265 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 117.89 Mbit/s

95th percentile per-packet one-way delay: 87.284 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 87.199 ms

Loss rate: 1.12%

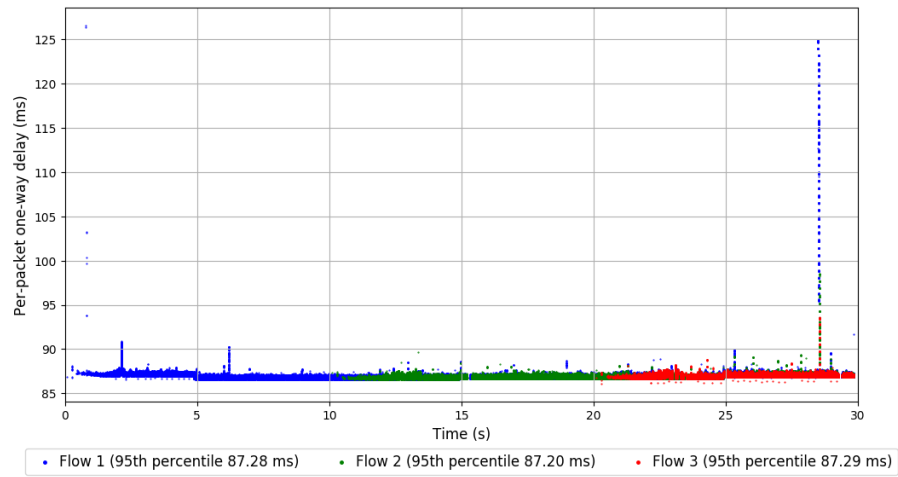
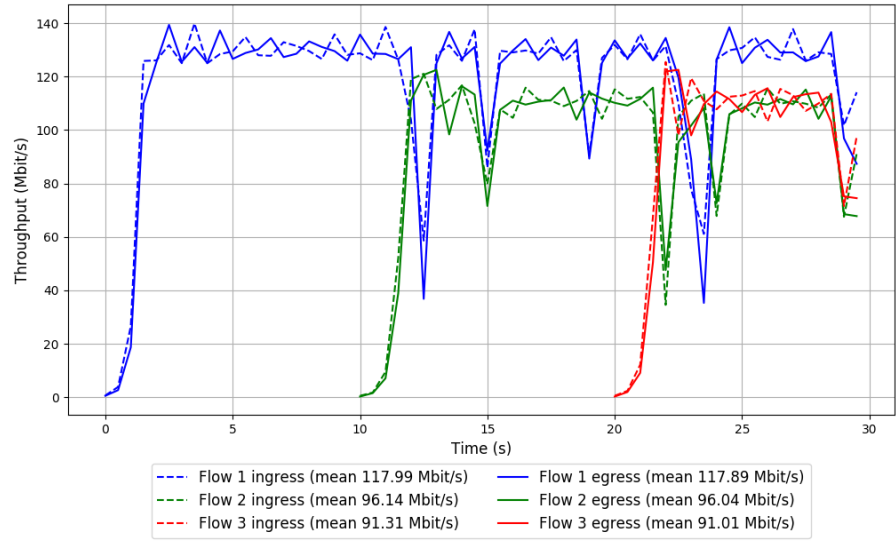
-- Flow 3:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 87.289 ms

Loss rate: 2.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-05 22:22:05

End at: 2017-12-05 22:22:35

Below is generated by plot.py at 2017-12-06 01:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.07 Mbit/s

95th percentile per-packet one-way delay: 87.313 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 121.09 Mbit/s

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

Loss rate: 0.61%

-- Flow 2:

Average throughput: 117.78 Mbit/s

95th percentile per-packet one-way delay: 87.331 ms

Loss rate: 0.95%

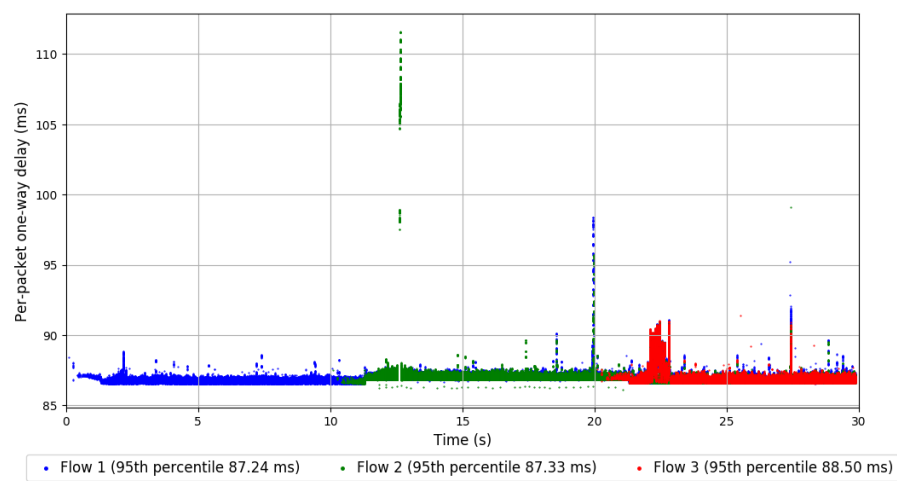
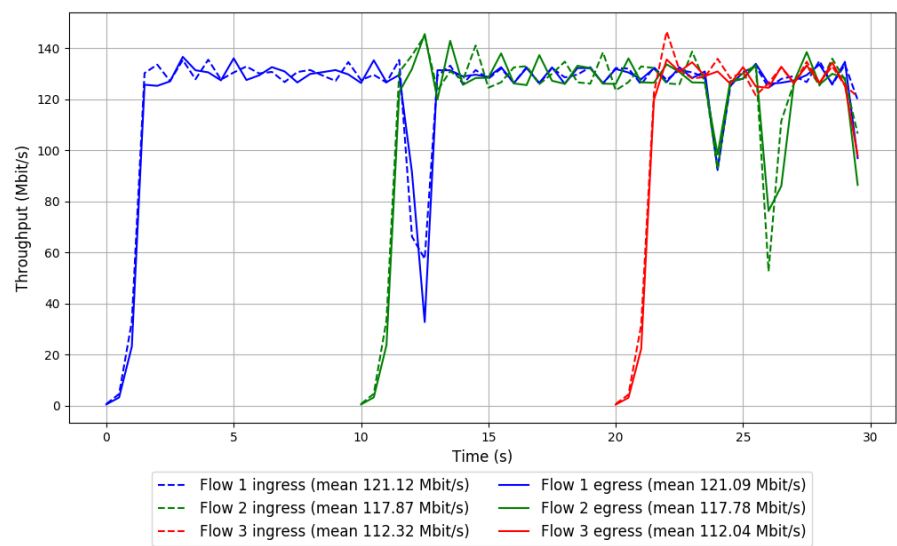
-- Flow 3:

Average throughput: 112.04 Mbit/s

95th percentile per-packet one-way delay: 88.495 ms

Loss rate: 2.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-05 22:35:23

End at: 2017-12-05 22:35:53

Below is generated by plot.py at 2017-12-06 01:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.64 Mbit/s

95th percentile per-packet one-way delay: 87.190 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 120.67 Mbit/s

95th percentile per-packet one-way delay: 87.151 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 115.22 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.97%

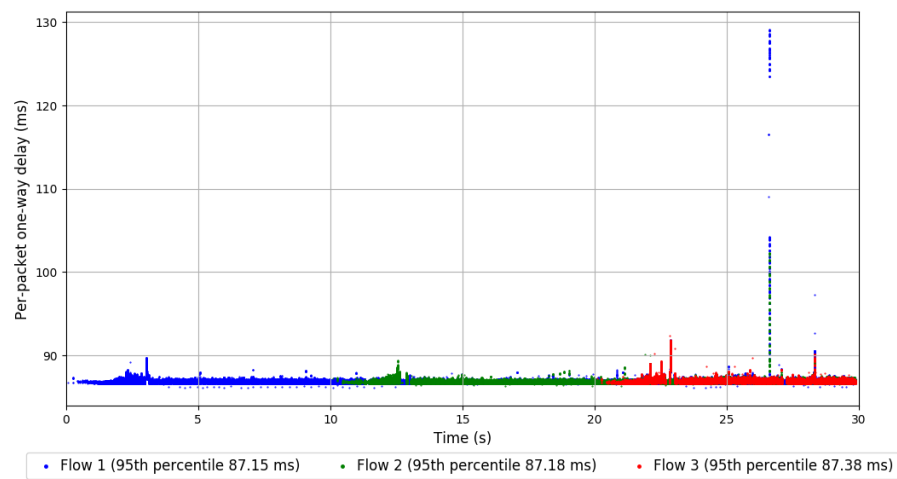
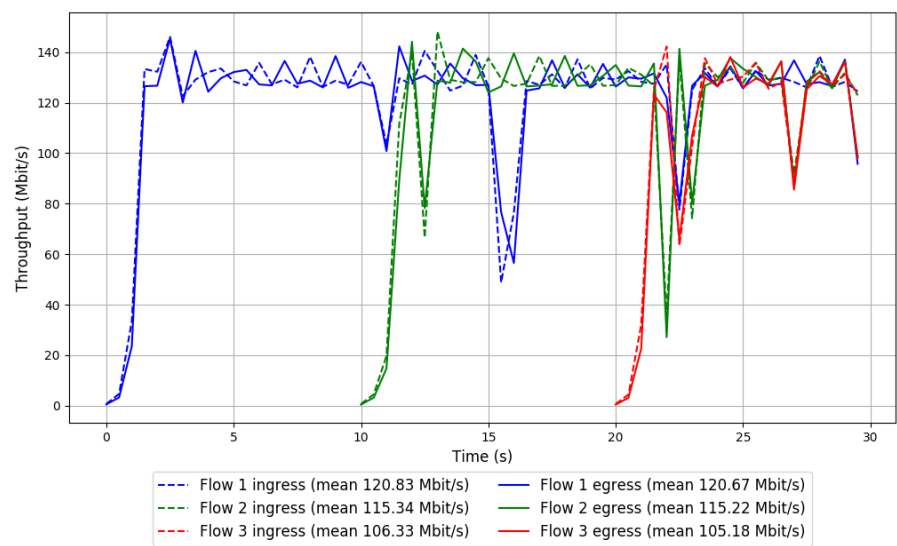
-- Flow 3:

Average throughput: 105.18 Mbit/s

95th percentile per-packet one-way delay: 87.379 ms

Loss rate: 2.81%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-05 22:48:41

End at: 2017-12-05 22:49:11

Below is generated by plot.py at 2017-12-06 01:42:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.80 Mbit/s

95th percentile per-packet one-way delay: 87.075 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 121.08 Mbit/s

95th percentile per-packet one-way delay: 87.040 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 117.57 Mbit/s

95th percentile per-packet one-way delay: 87.059 ms

Loss rate: 0.99%

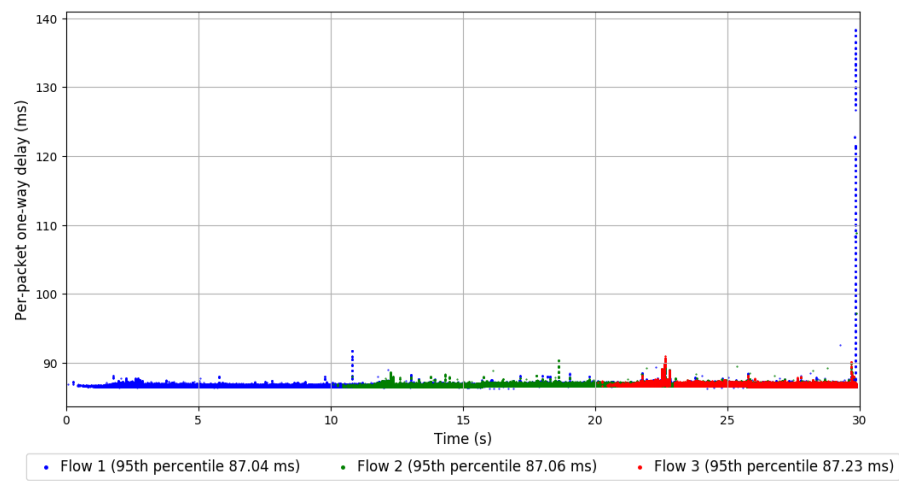
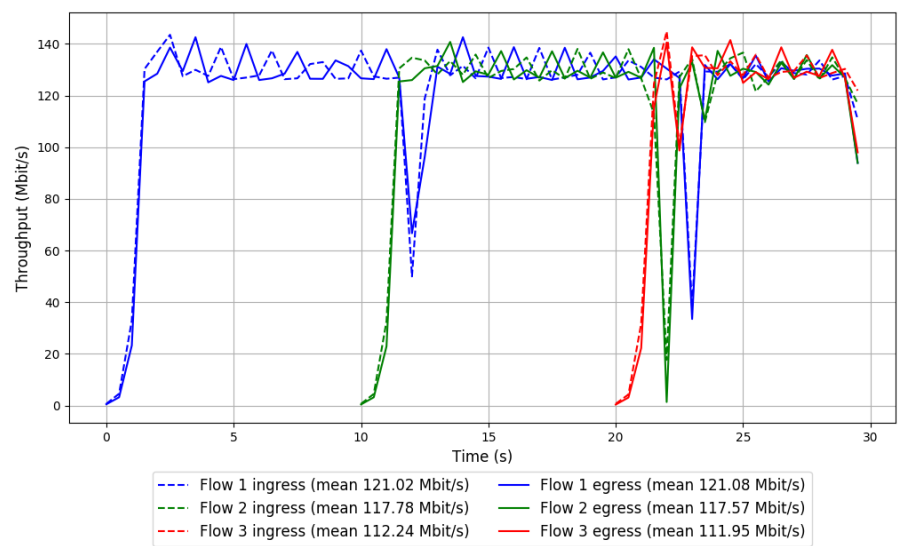
-- Flow 3:

Average throughput: 111.95 Mbit/s

95th percentile per-packet one-way delay: 87.229 ms

Loss rate: 2.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-05 23:02:02

End at: 2017-12-05 23:02:32

Below is generated by plot.py at 2017-12-06 01:46:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.79 Mbit/s

95th percentile per-packet one-way delay: 87.164 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 123.18 Mbit/s

95th percentile per-packet one-way delay: 87.114 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 118.01 Mbit/s

95th percentile per-packet one-way delay: 87.150 ms

Loss rate: 0.94%

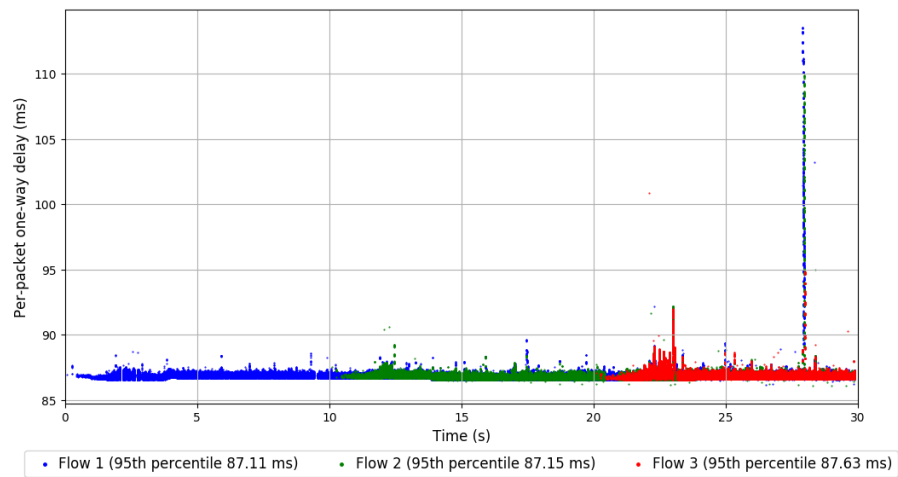
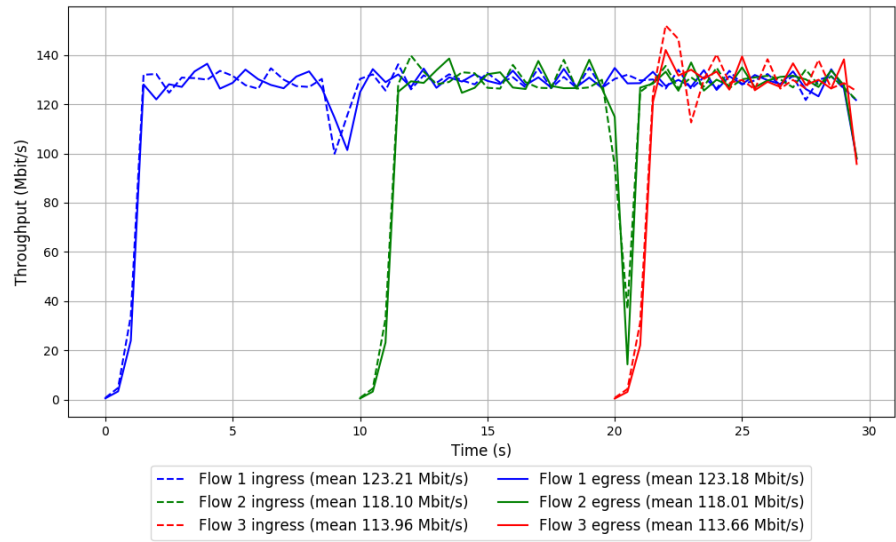
-- Flow 3:

Average throughput: 113.66 Mbit/s

95th percentile per-packet one-way delay: 87.629 ms

Loss rate: 2.04%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-05 23:15:39

End at: 2017-12-05 23:16:09

Below is generated by plot.py at 2017-12-06 01:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.34 Mbit/s

95th percentile per-packet one-way delay: 87.144 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 120.23 Mbit/s

95th percentile per-packet one-way delay: 87.112 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 117.96 Mbit/s

95th percentile per-packet one-way delay: 87.106 ms

Loss rate: 1.00%

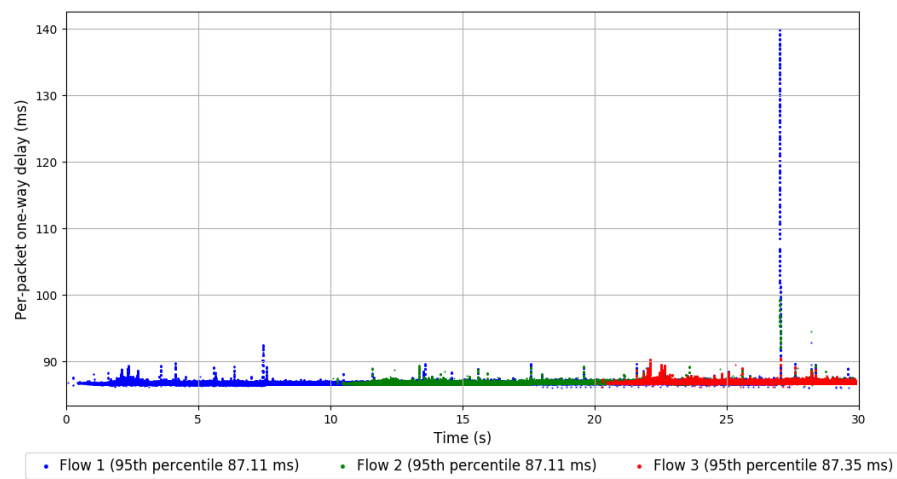
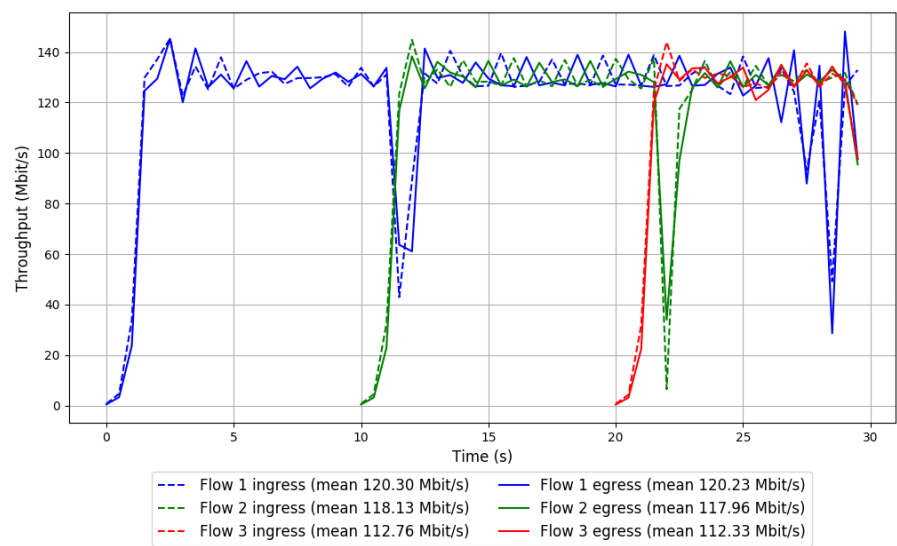
-- Flow 3:

Average throughput: 112.33 Mbit/s

95th percentile per-packet one-way delay: 87.351 ms

Loss rate: 1.97%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 21:17:03

End at: 2017-12-05 21:17:33

Below is generated by plot.py at 2017-12-06 01:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.05 Mbit/s

95th percentile per-packet one-way delay: 90.825 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 90.009 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 91.698 ms

Loss rate: 1.27%

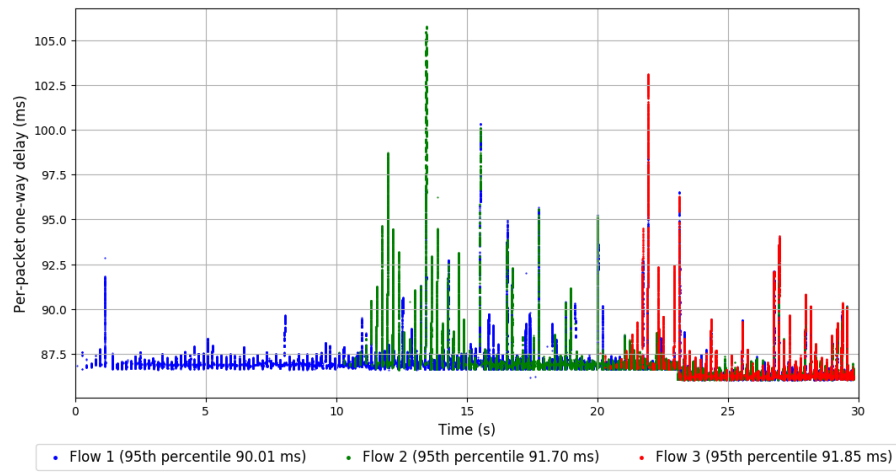
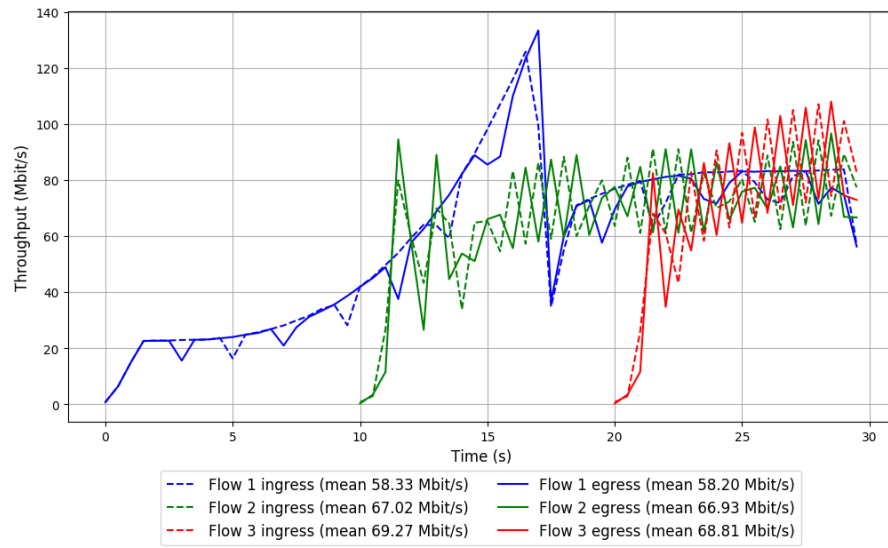
-- Flow 3:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 91.847 ms

Loss rate: 2.69%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 21:30:38

End at: 2017-12-05 21:31:08

Below is generated by plot.py at 2017-12-06 01:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.28 Mbit/s

95th percentile per-packet one-way delay: 96.472 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 92.650 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 98.580 ms

Loss rate: 0.56%

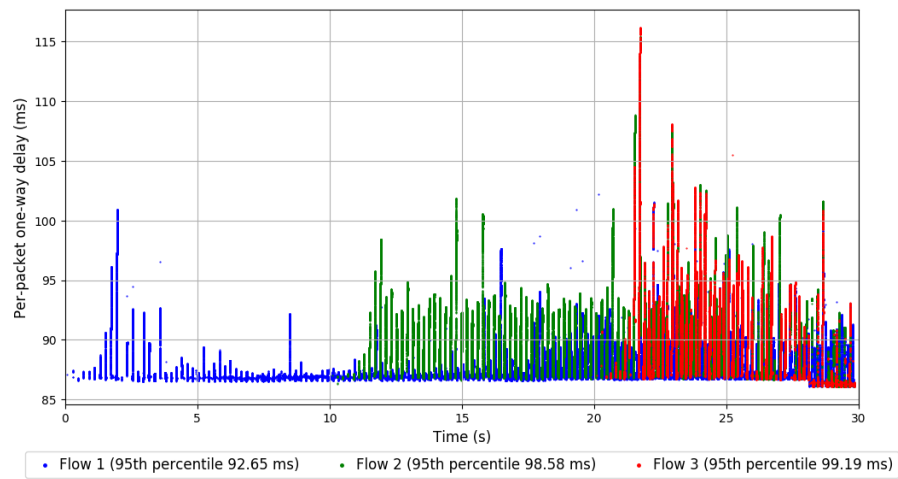
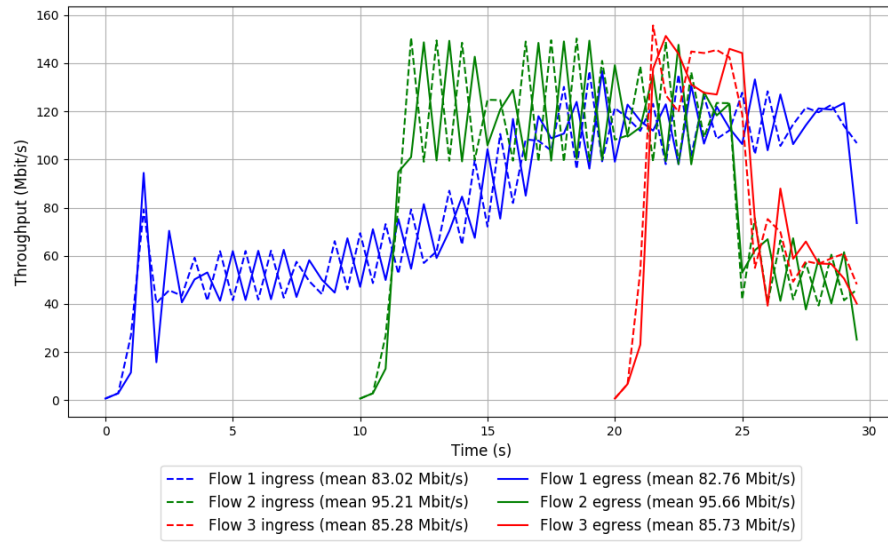
-- Flow 3:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 99.192 ms

Loss rate: 1.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 21:44:26

End at: 2017-12-05 21:44:56

Below is generated by plot.py at 2017-12-06 01:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.26 Mbit/s

95th percentile per-packet one-way delay: 91.011 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 90.174 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 88.372 ms

Loss rate: 1.03%

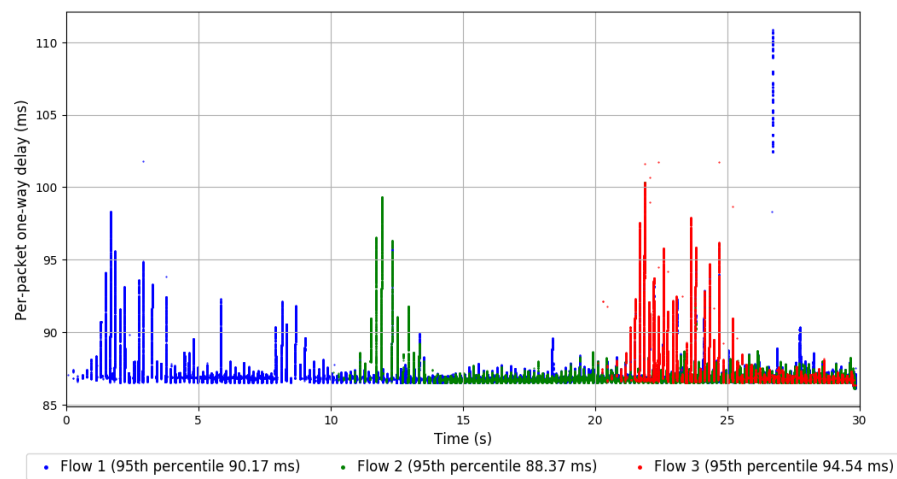
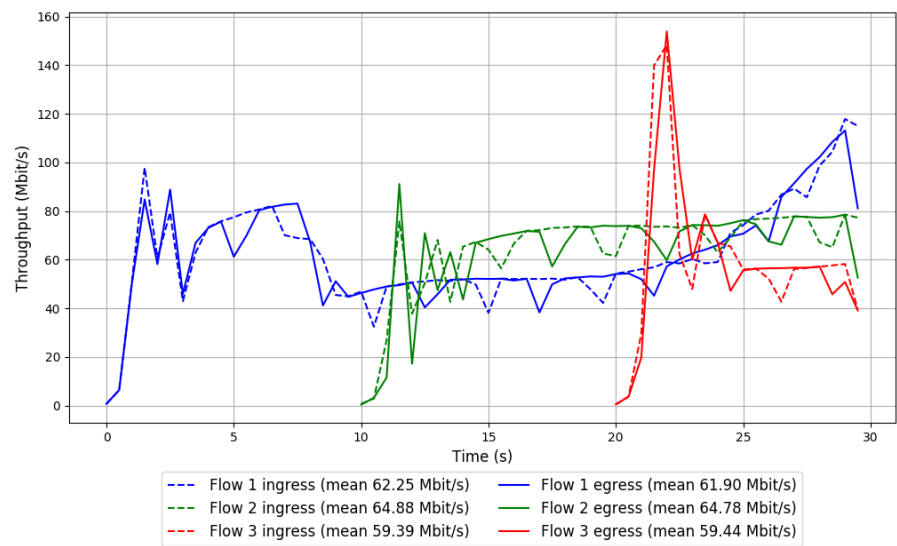
-- Flow 3:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 94.537 ms

Loss rate: 1.68%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 21:58:10

End at: 2017-12-05 21:58:40

Below is generated by plot.py at 2017-12-06 01:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.57 Mbit/s

95th percentile per-packet one-way delay: 94.593 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 94.221 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 93.150 ms

Loss rate: 1.41%

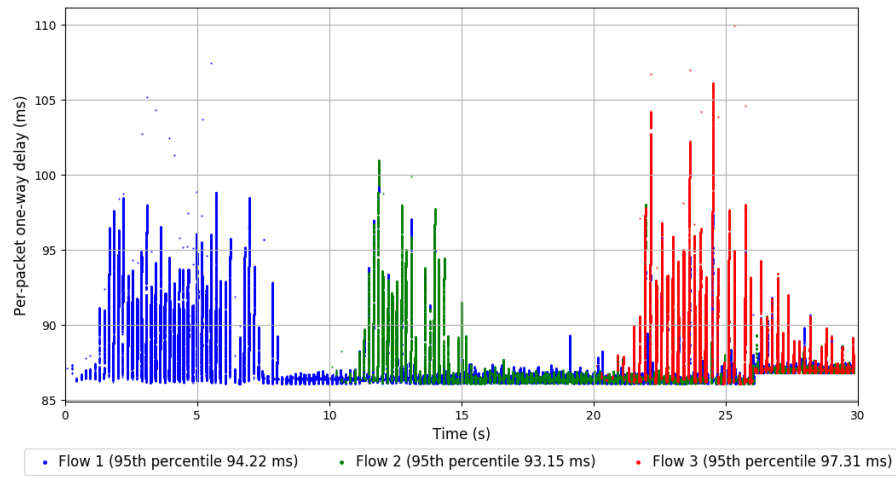
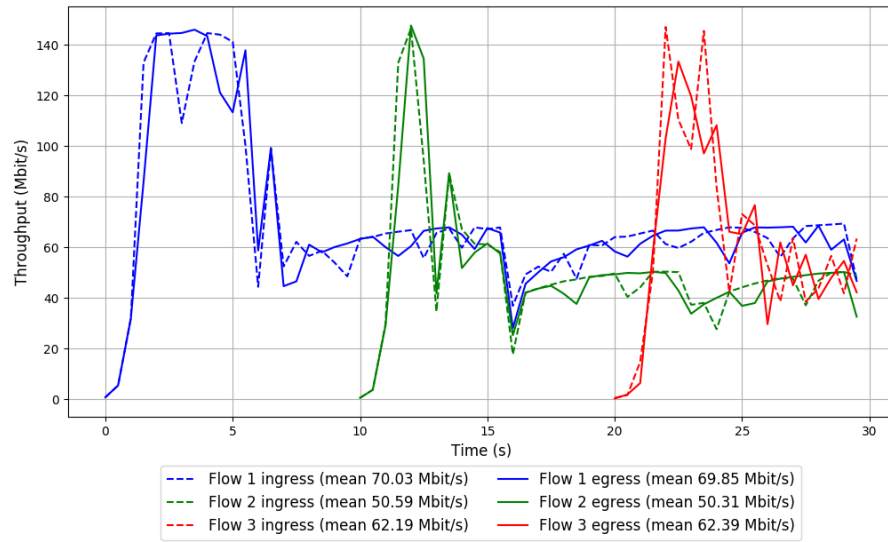
-- Flow 3:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 97.310 ms

Loss rate: 1.74%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-05 22:12:00

End at: 2017-12-05 22:12:30

Below is generated by plot.py at 2017-12-06 01:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 90.390 ms

Loss rate: 3.24%

-- Flow 1:

Average throughput: 19.49 Mbit/s

95th percentile per-packet one-way delay: 87.521 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 89.796 ms

Loss rate: 2.20%

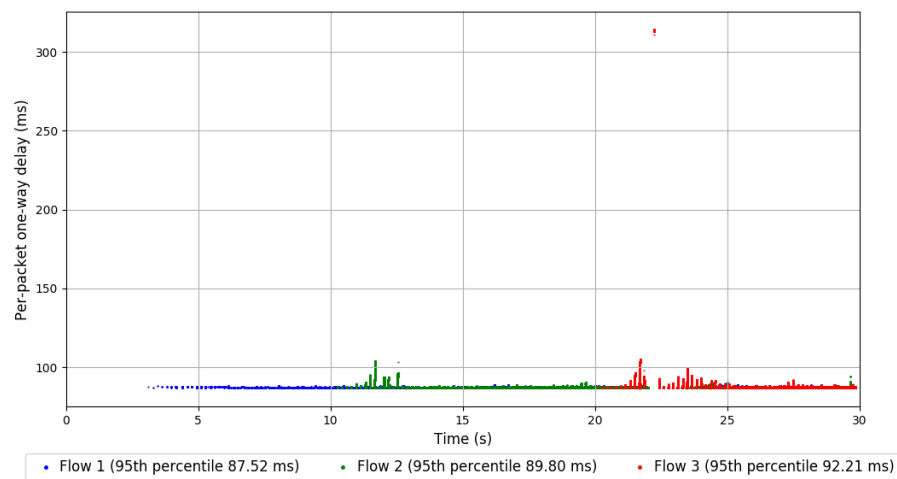
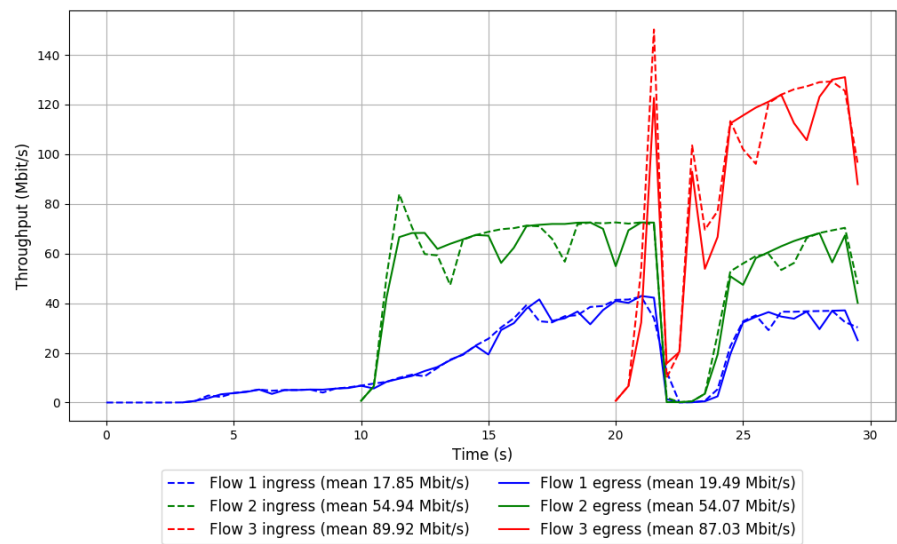
-- Flow 3:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 92.213 ms

Loss rate: 4.91%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-05 22:25:20

End at: 2017-12-05 22:25:50

Below is generated by plot.py at 2017-12-06 01:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 96.119 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 94.895 ms

Loss rate: 6.36%

-- Flow 2:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 97.802 ms

Loss rate: 0.66%

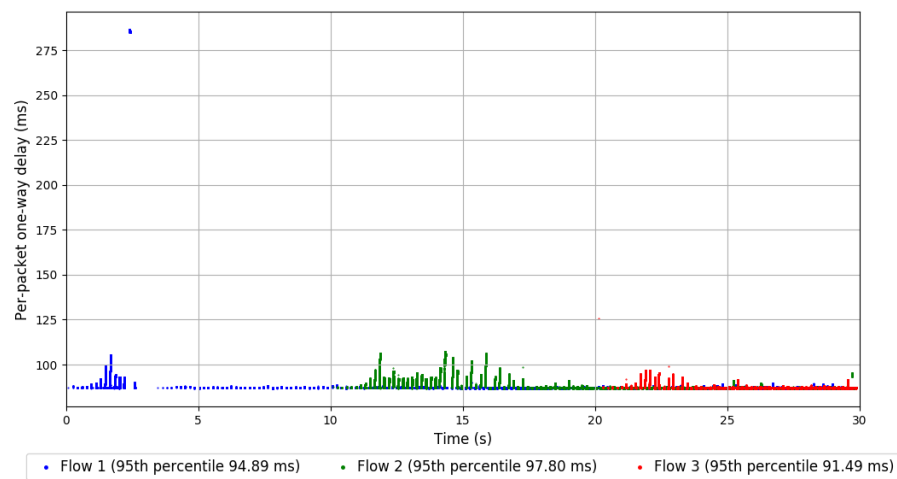
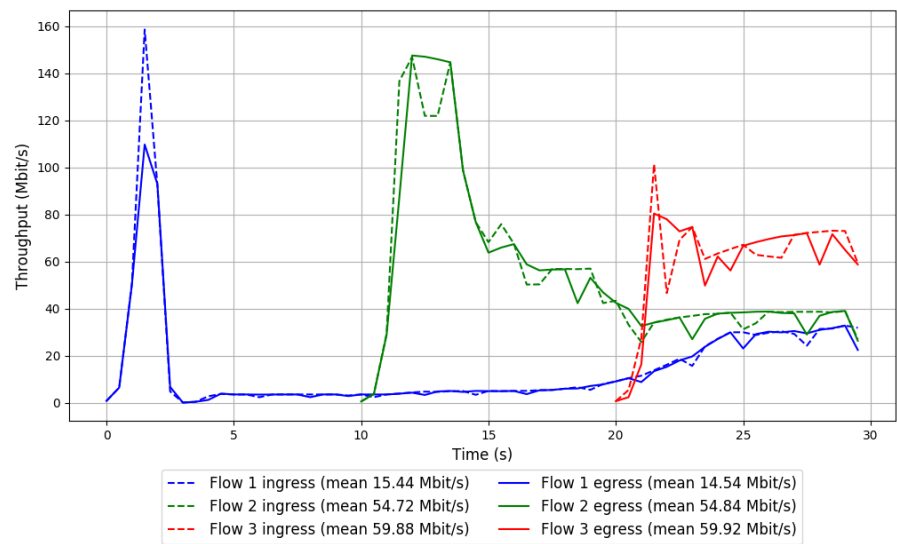
-- Flow 3:

Average throughput: 59.92 Mbit/s

95th percentile per-packet one-way delay: 91.486 ms

Loss rate: 2.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-05 22:38:38

End at: 2017-12-05 22:39:08

Below is generated by plot.py at 2017-12-06 01:46:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.89 Mbit/s

95th percentile per-packet one-way delay: 92.115 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 92.101 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 71.80 Mbit/s

95th percentile per-packet one-way delay: 91.778 ms

Loss rate: 0.56%

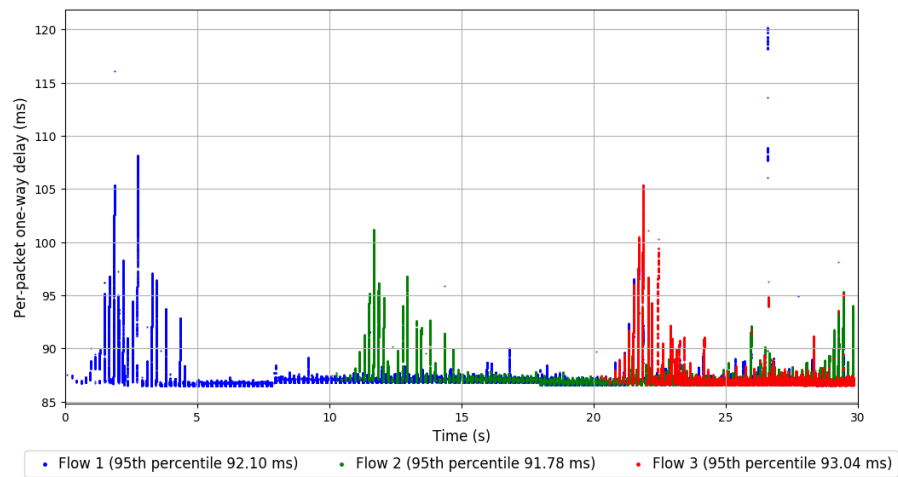
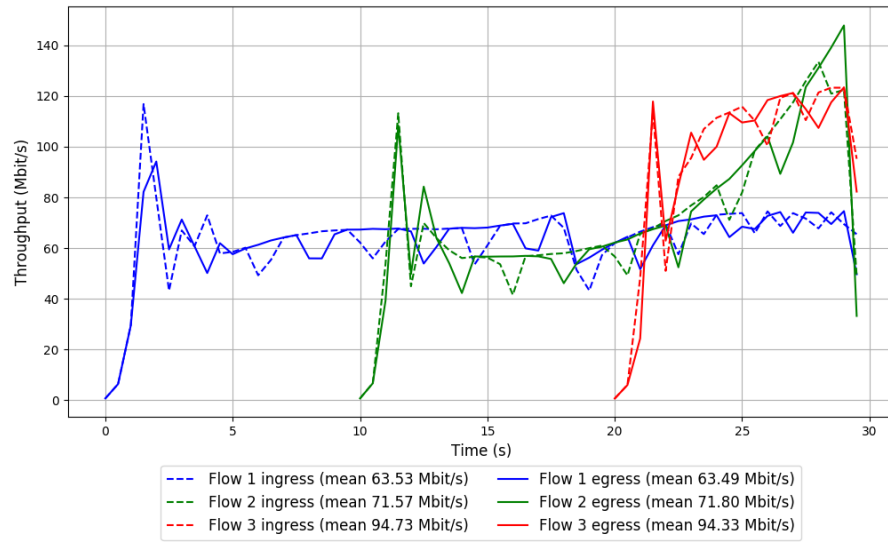
-- Flow 3:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 93.037 ms

Loss rate: 2.19%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-05 22:51:57

End at: 2017-12-05 22:52:27

Below is generated by plot.py at 2017-12-06 01:46:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.91 Mbit/s

95th percentile per-packet one-way delay: 91.175 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 50.89 Mbit/s

95th percentile per-packet one-way delay: 89.024 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 77.96 Mbit/s

95th percentile per-packet one-way delay: 92.186 ms

Loss rate: 0.87%

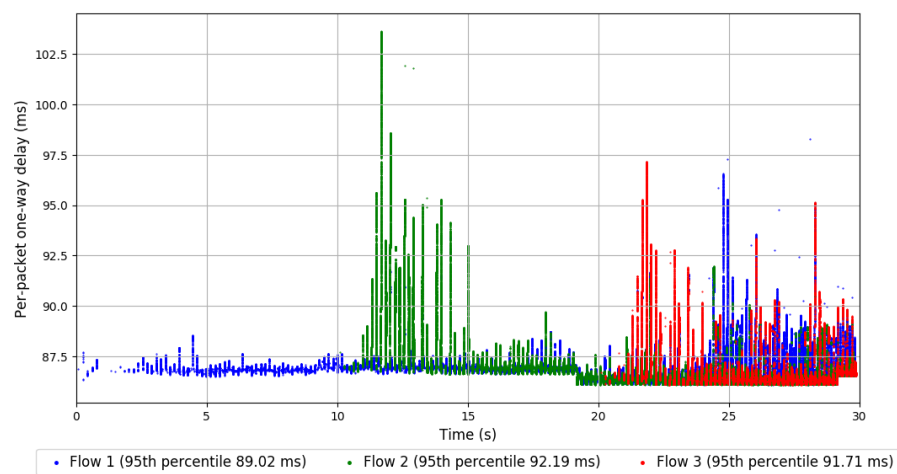
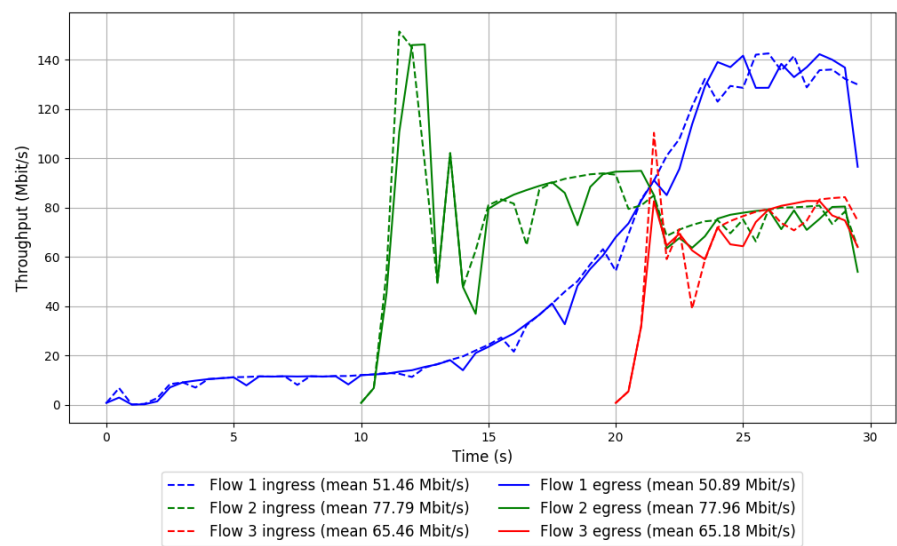
-- Flow 3:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 91.711 ms

Loss rate: 2.16%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-05 23:05:18

End at: 2017-12-05 23:05:48

Below is generated by plot.py at 2017-12-06 01:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.90 Mbit/s

95th percentile per-packet one-way delay: 95.969 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 91.947 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 71.40 Mbit/s

95th percentile per-packet one-way delay: 97.791 ms

Loss rate: 0.62%

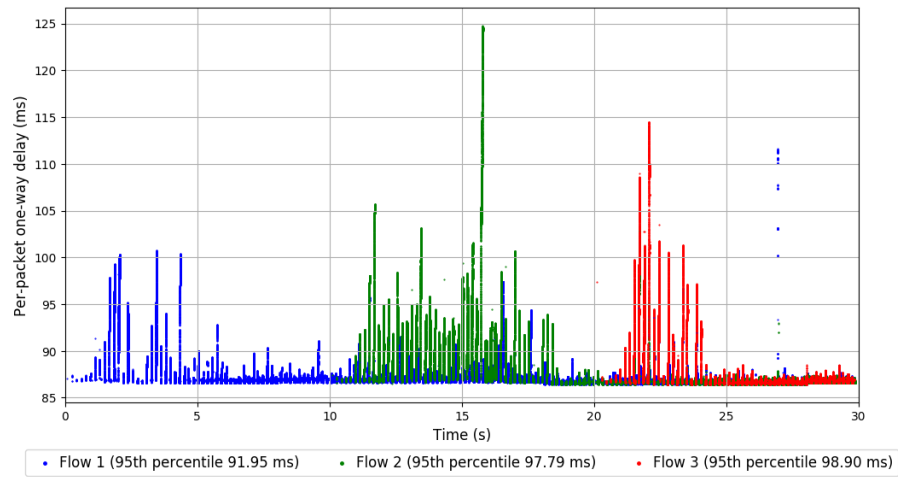
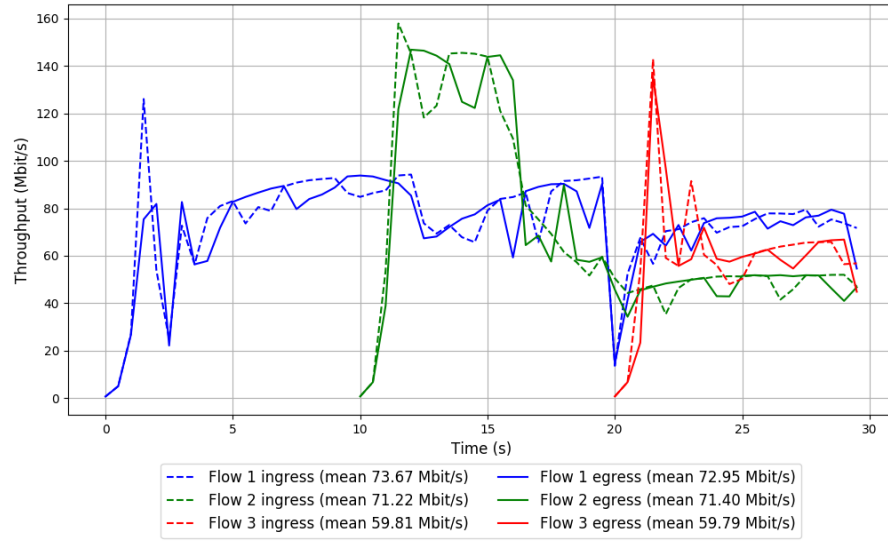
-- Flow 3:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 98.896 ms

Loss rate: 1.88%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-05 23:18:55

End at: 2017-12-05 23:19:25

Below is generated by plot.py at 2017-12-06 01:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.24 Mbit/s

95th percentile per-packet one-way delay: 93.357 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 93.068 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 91.692 ms

Loss rate: 1.97%

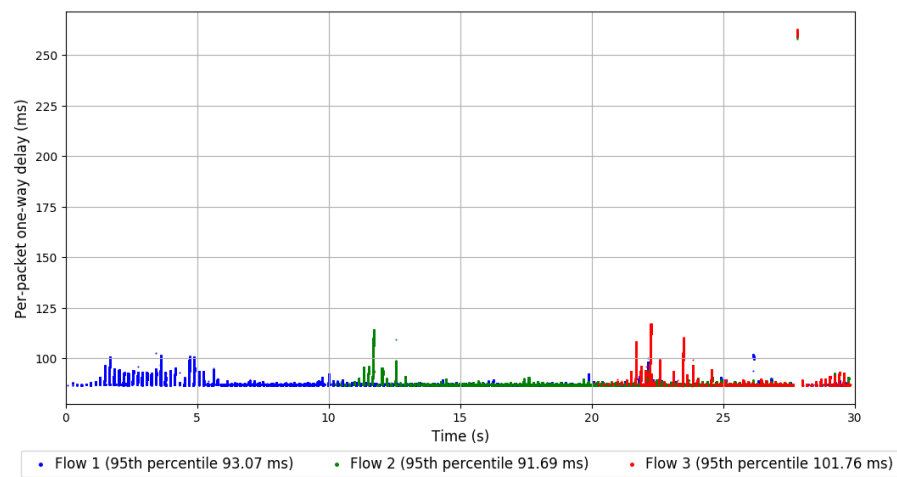
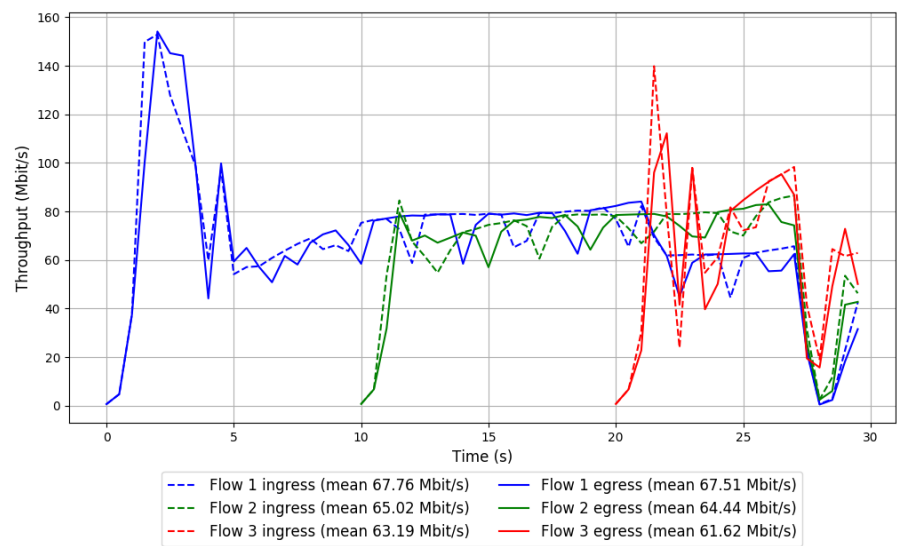
-- Flow 3:

Average throughput: 61.62 Mbit/s

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

Loss rate: 4.29%

Run 10: Report of TCP Cubic — Data Link

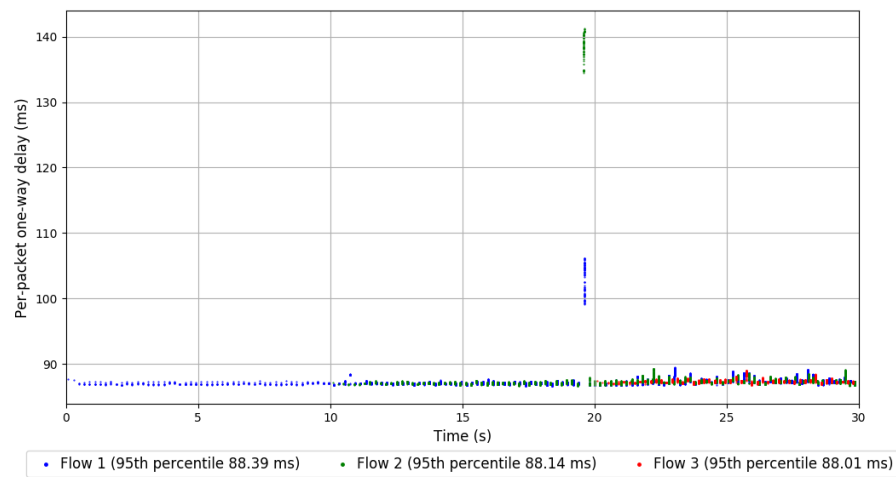
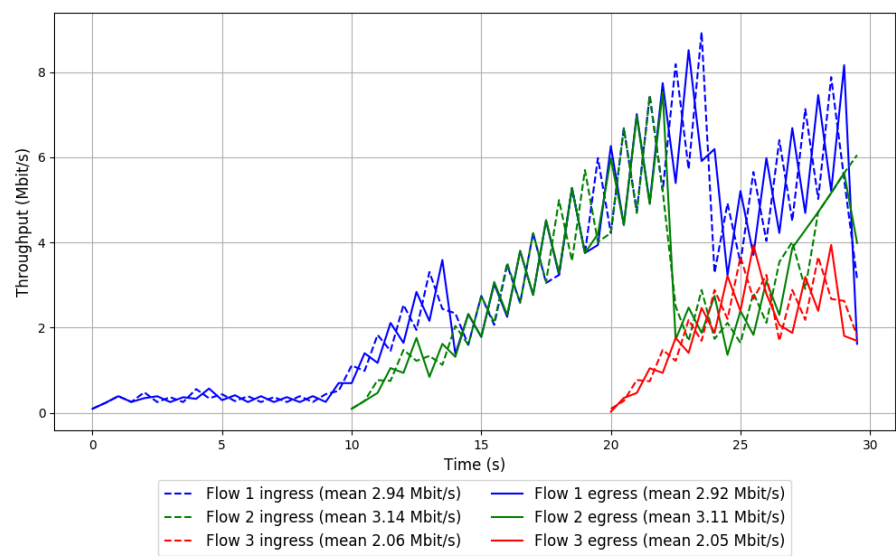


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 21:18:47
End at: 2017-12-05 21:19:17

# Below is generated by plot.py at 2017-12-06 01:46:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 88.283 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 88.387 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 88.139 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 88.010 ms
Loss rate: 2.48%
```


Run 1: Report of LEDBAT — Data Link

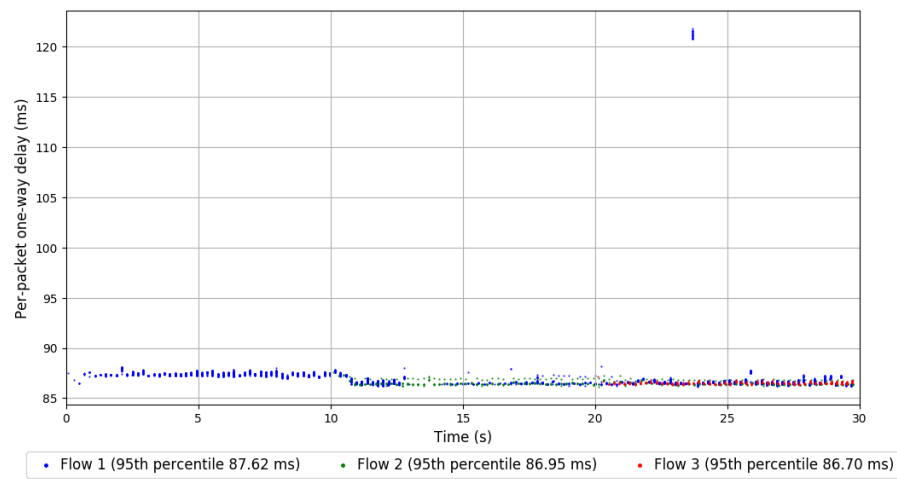
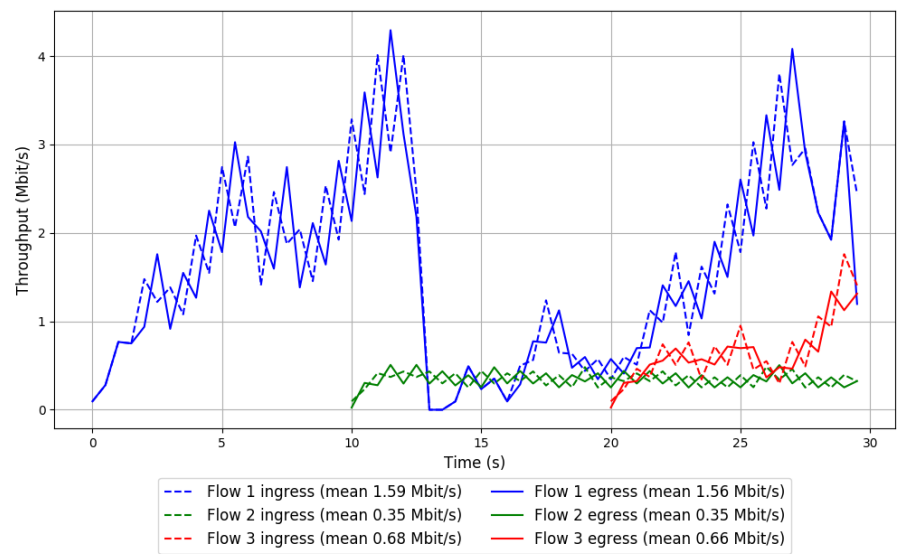


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-05 21:32:26
End at: 2017-12-05 21:32:56

# Below is generated by plot.py at 2017-12-06 01:46:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 87.588 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 87.618 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.946 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 86.704 ms
Loss rate: 5.42%
```

Run 2: Report of LEDBAT — Data Link

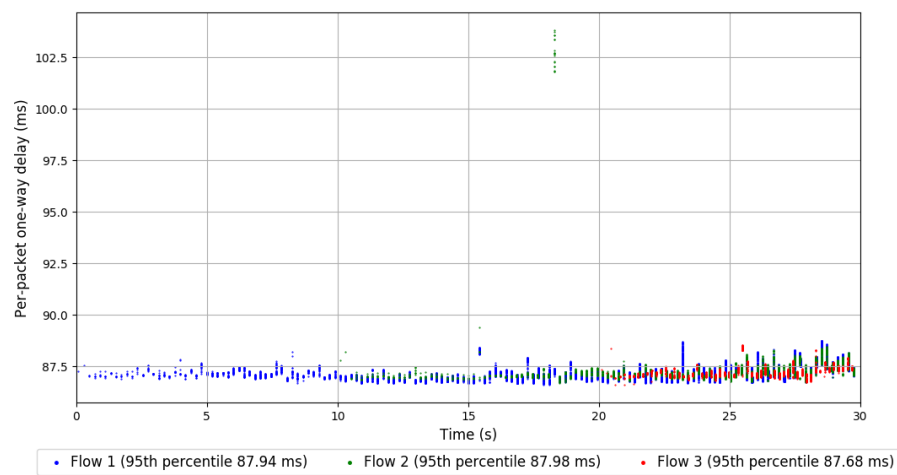
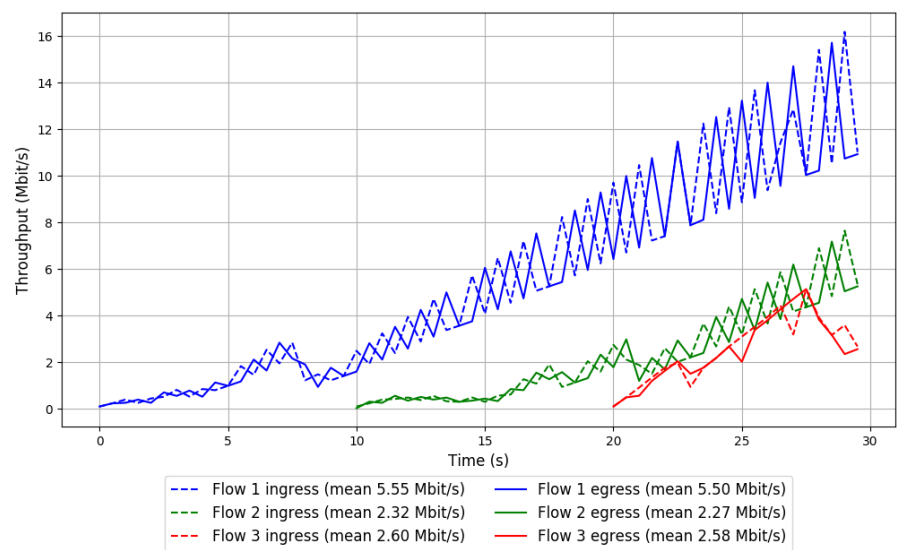


```
Run 3: Statistics of LEDBAT

Start at: 2017-12-05 21:46:18
End at: 2017-12-05 21:46:48

# Below is generated by plot.py at 2017-12-06 01:46:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 87.932 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 87.939 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 87.978 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 87.684 ms
Loss rate: 2.86%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-05 21:59:58

End at: 2017-12-05 22:00:28

Below is generated by plot.py at 2017-12-06 01:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 87.651 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 87.702 ms

Loss rate: 0.80%

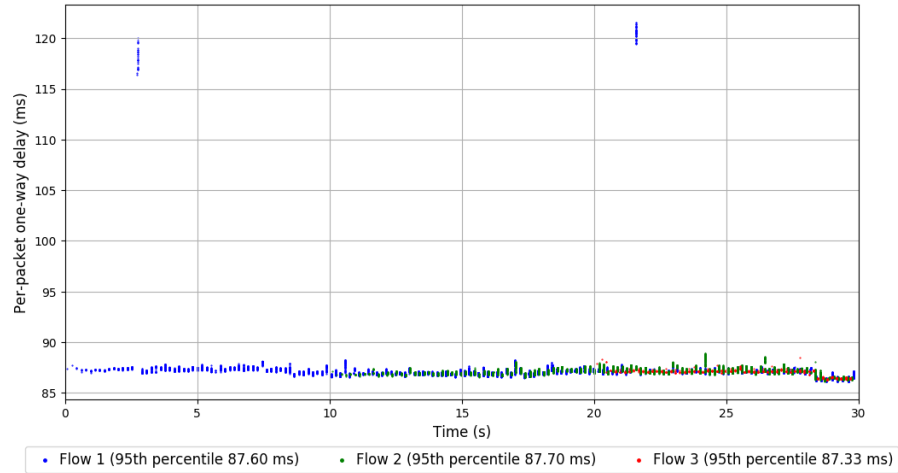
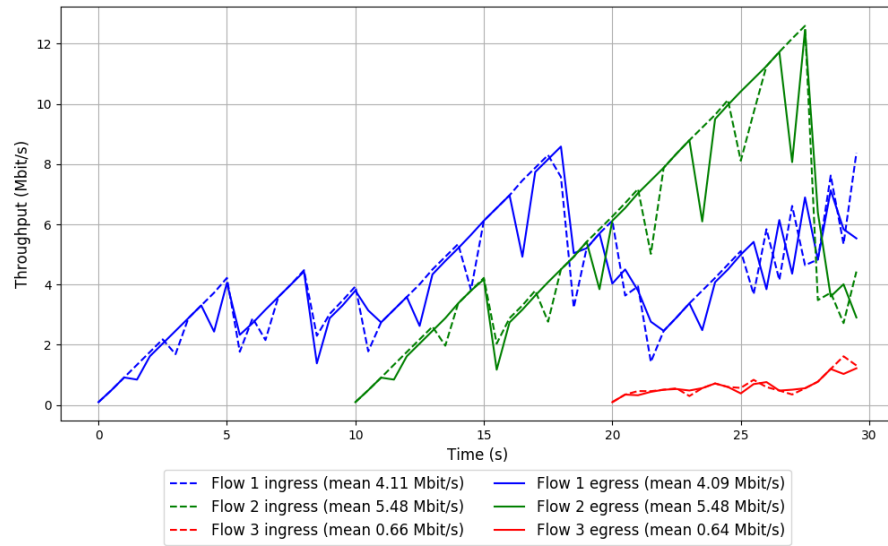
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 87.332 ms

Loss rate: 5.28%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-05 22:13:40

End at: 2017-12-05 22:14:10

Below is generated by plot.py at 2017-12-06 01:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 87.717 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 5.73 Mbit/s

95th percentile per-packet one-way delay: 87.849 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 87.413 ms

Loss rate: 2.21%

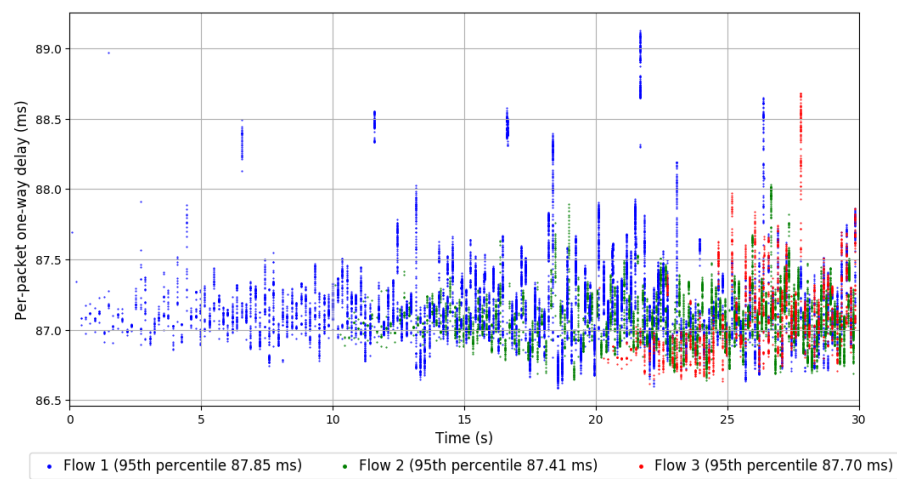
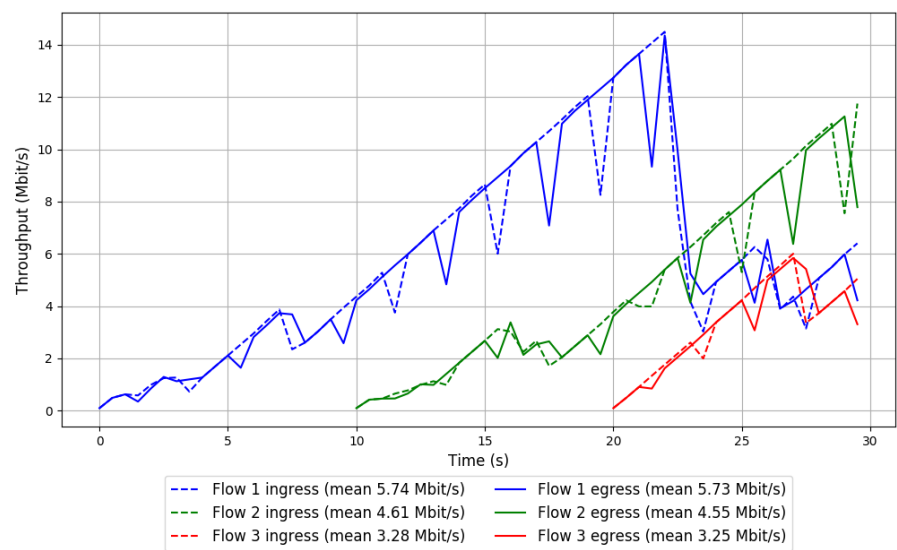
-- Flow 3:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 87.697 ms

Loss rate: 2.67%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-05 22:26:56

End at: 2017-12-05 22:27:26

Below is generated by plot.py at 2017-12-06 01:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 88.186 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 5.20 Mbit/s

95th percentile per-packet one-way delay: 88.573 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 87.734 ms

Loss rate: 2.10%

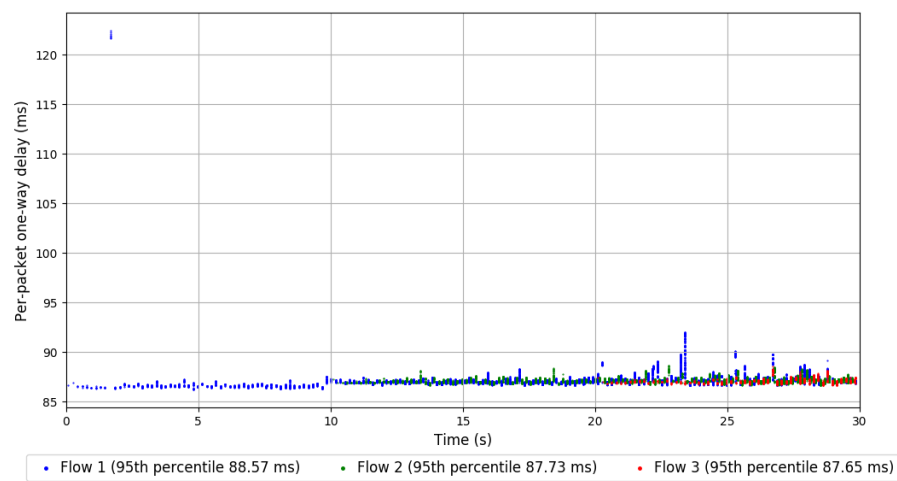
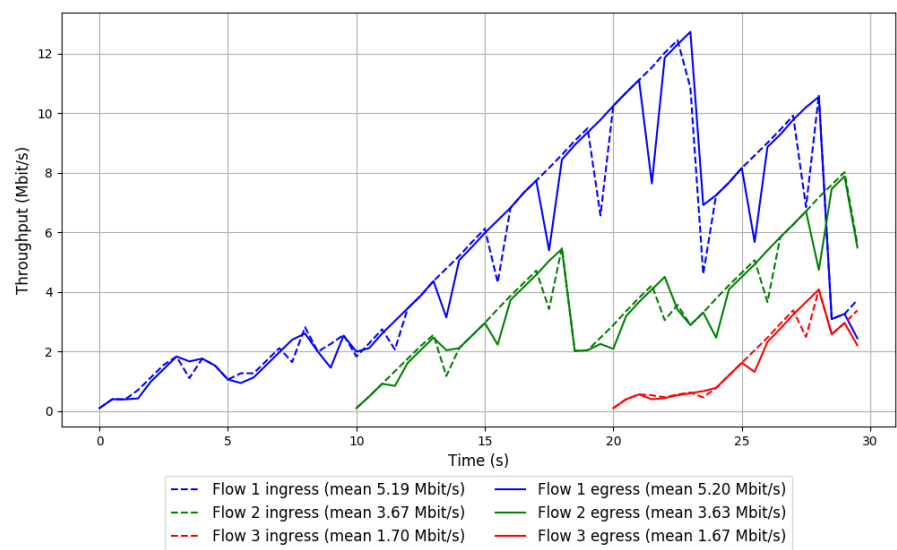
-- Flow 3:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 87.653 ms

Loss rate: 3.50%

Run 6: Report of LEDBAT — Data Link

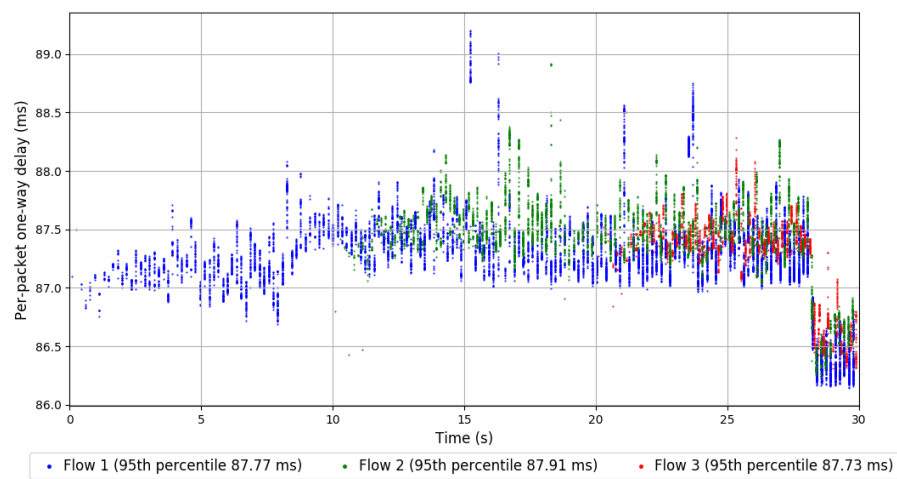
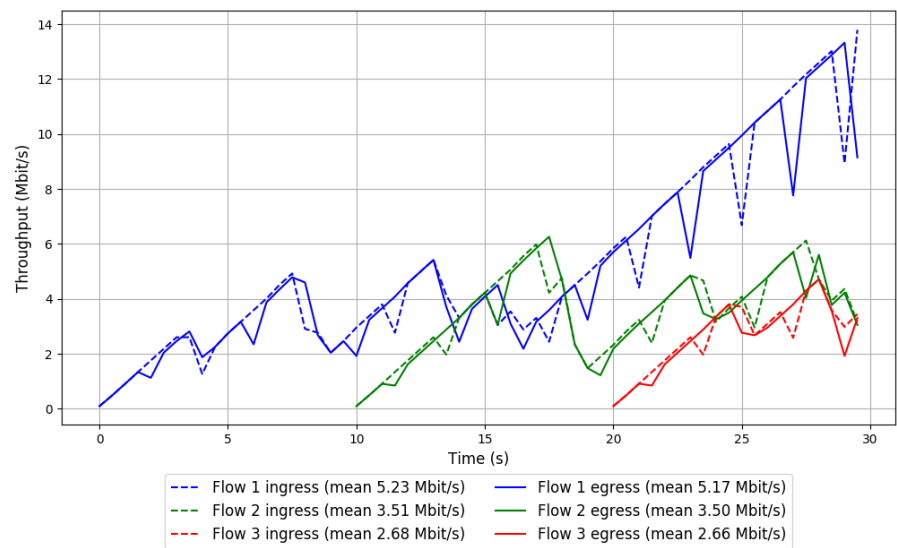


```
Run 7: Statistics of LEDBAT

Start at: 2017-12-05 22:40:18
End at: 2017-12-05 22:40:48

# Below is generated by plot.py at 2017-12-06 01:46:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 87.765 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 87.913 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 87.729 ms
Loss rate: 2.30%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-05 22:53:41

End at: 2017-12-05 22:54:11

Below is generated by plot.py at 2017-12-06 01:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.93 Mbit/s

95th percentile per-packet one-way delay: 87.690 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 87.695 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 87.623 ms

Loss rate: 1.31%

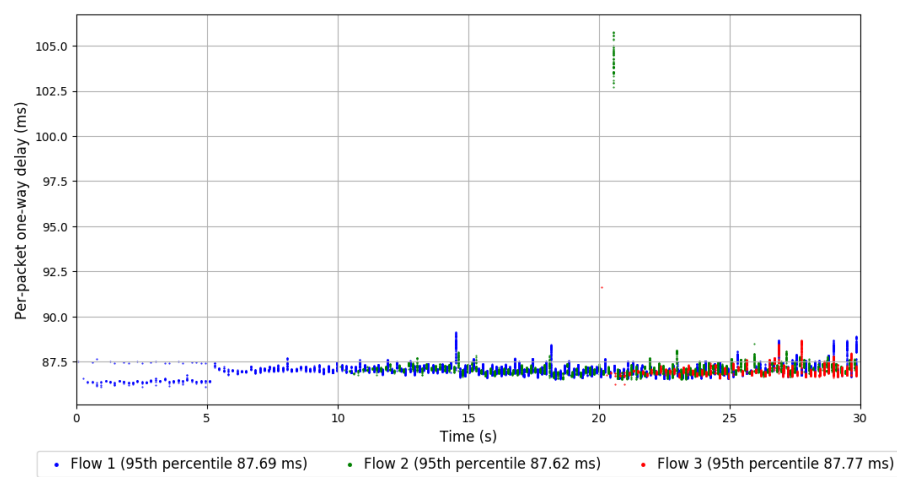
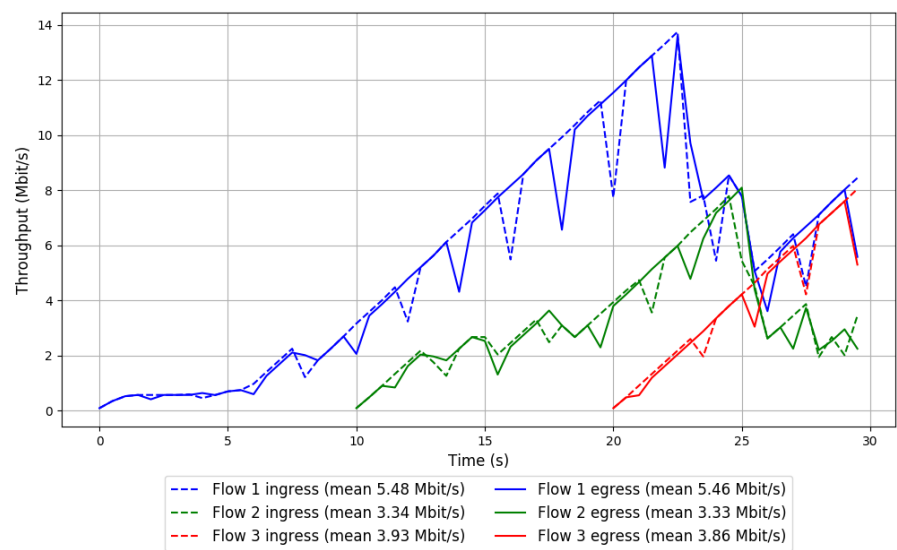
-- Flow 3:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 87.769 ms

Loss rate: 3.53%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-05 23:07:15

End at: 2017-12-05 23:07:45

Below is generated by plot.py at 2017-12-06 01:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 87.798 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 87.847 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 87.490 ms

Loss rate: 1.87%

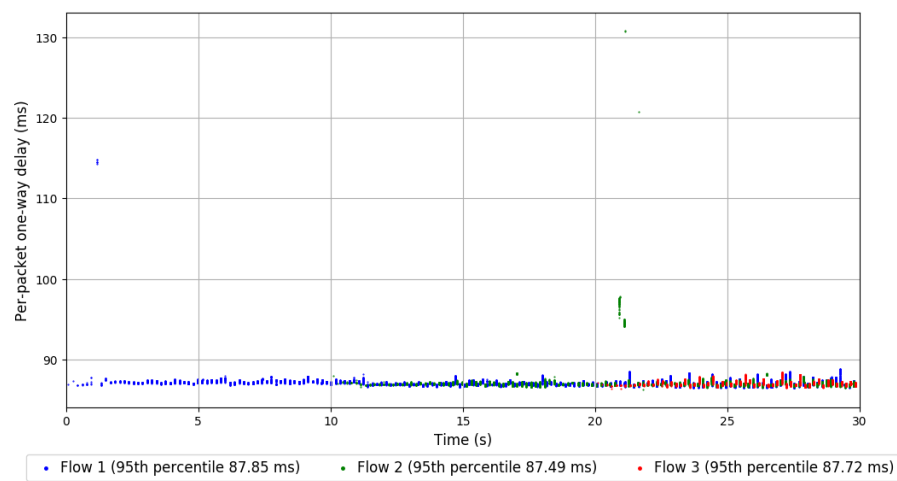
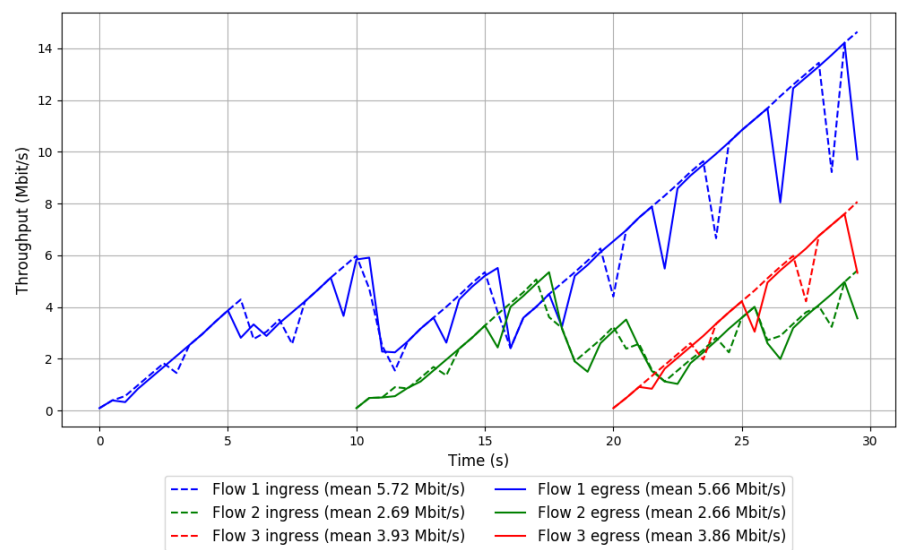
-- Flow 3:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 87.723 ms

Loss rate: 3.53%

Run 9: Report of LEDBAT — Data Link

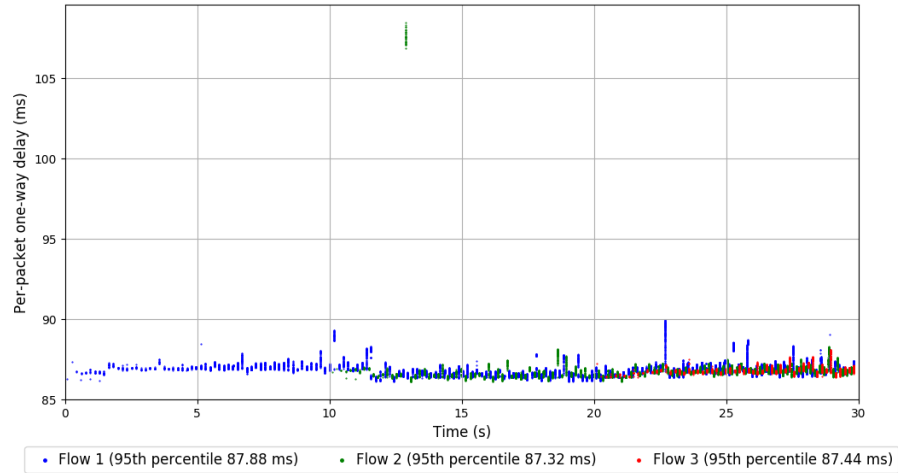
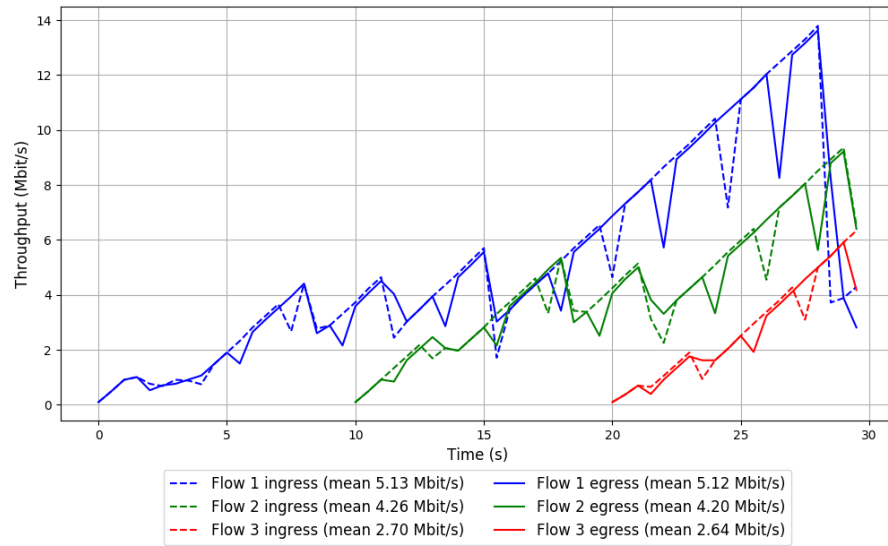


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-05 23:20:35
End at: 2017-12-05 23:21:05

# Below is generated by plot.py at 2017-12-06 01:46:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 87.585 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 87.883 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 87.323 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 87.442 ms
Loss rate: 4.03%
```

Run 10: Report of LEDBAT — Data Link

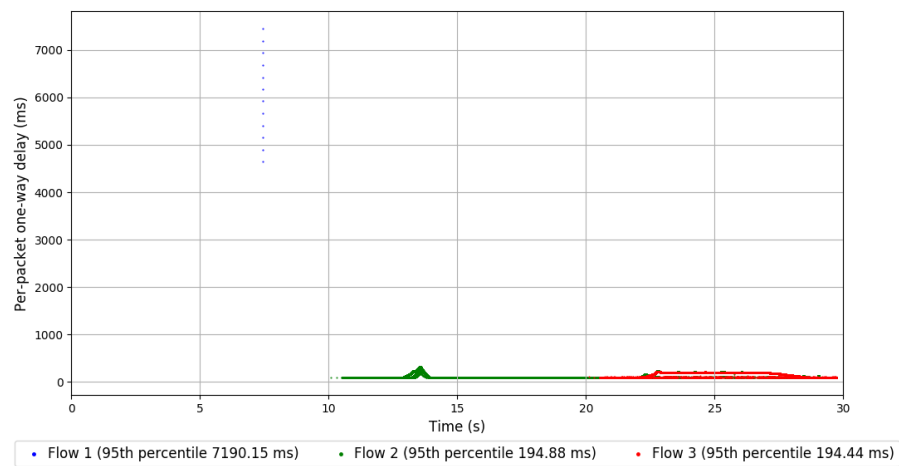
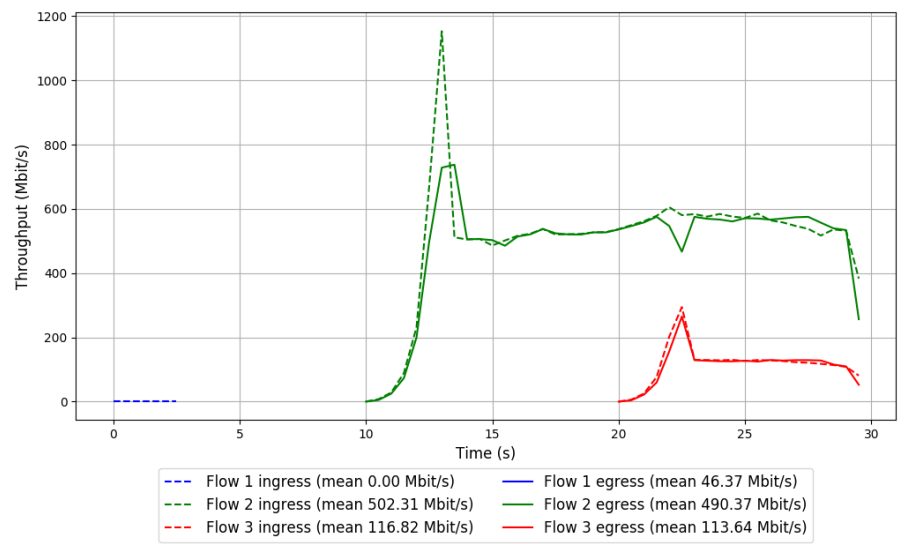


Run 1: Statistics of PCC

Start at: 2017-12-05 21:21:58

End at: 2017-12-05 21:22:28

Run 1: Report of PCC — Data Link

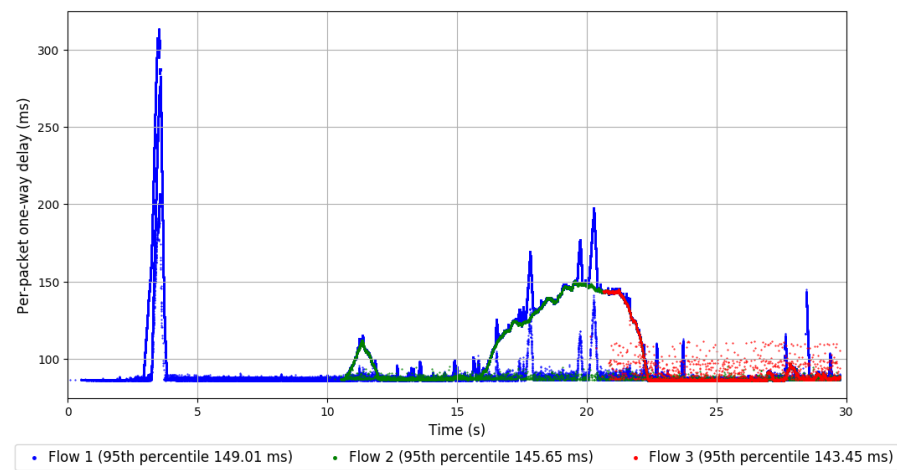
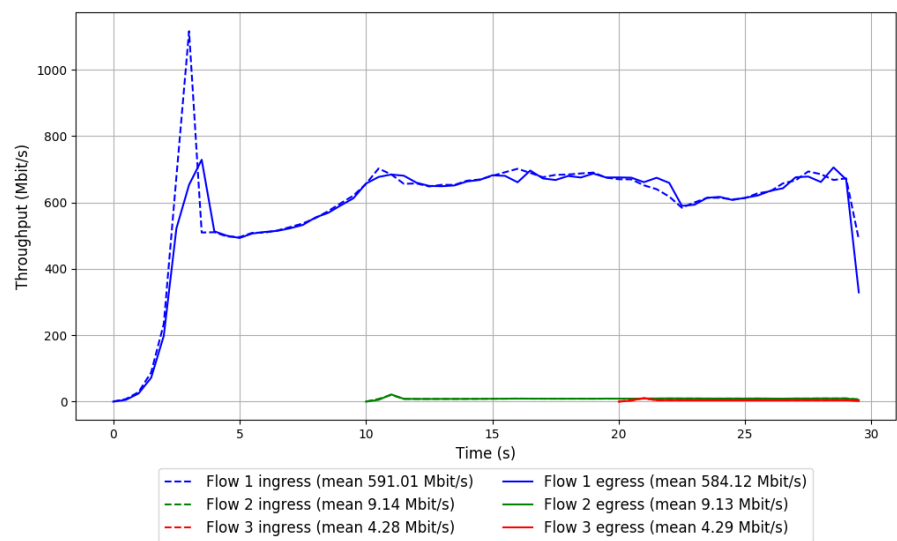


```
Run 2: Statistics of PCC

Start at: 2017-12-05 21:35:38
End at: 2017-12-05 21:36:08

# Below is generated by plot.py at 2017-12-06 01:55:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 591.56 Mbit/s
95th percentile per-packet one-way delay: 148.905 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 584.12 Mbit/s
95th percentile per-packet one-way delay: 149.008 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 145.652 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 143.452 ms
Loss rate: 2.08%
```

Run 2: Report of PCC — Data Link

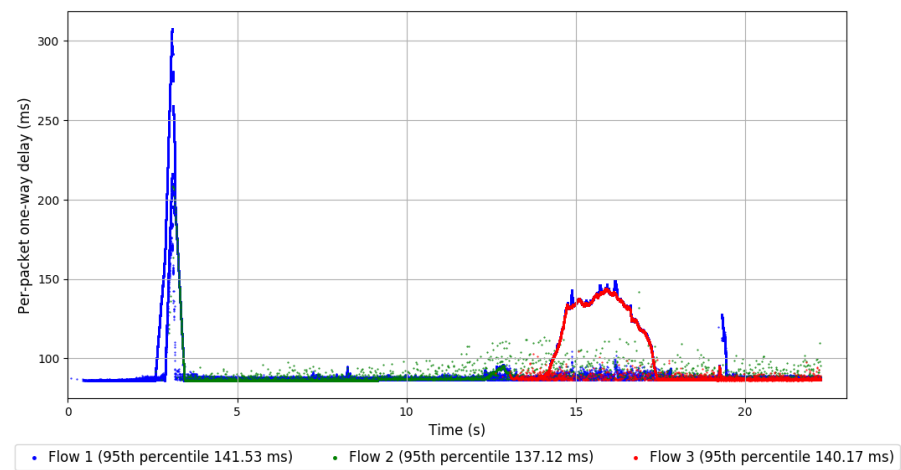
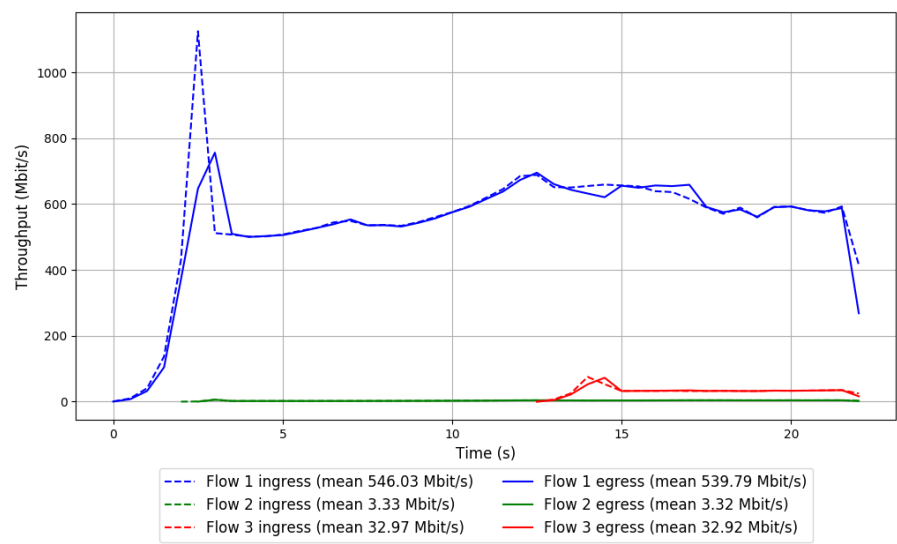


Run 3: Statistics of PCC

Start at: 2017-12-05 21:49:19

End at: 2017-12-05 21:49:49

Run 3: Report of PCC — Data Link

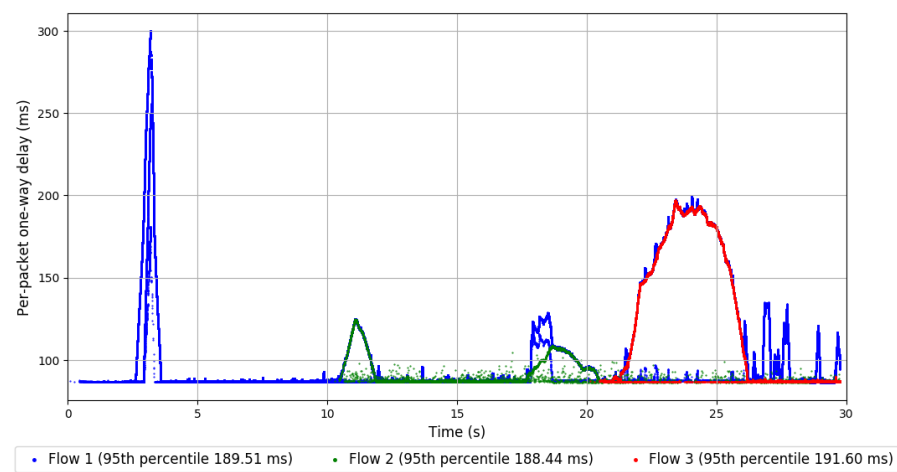
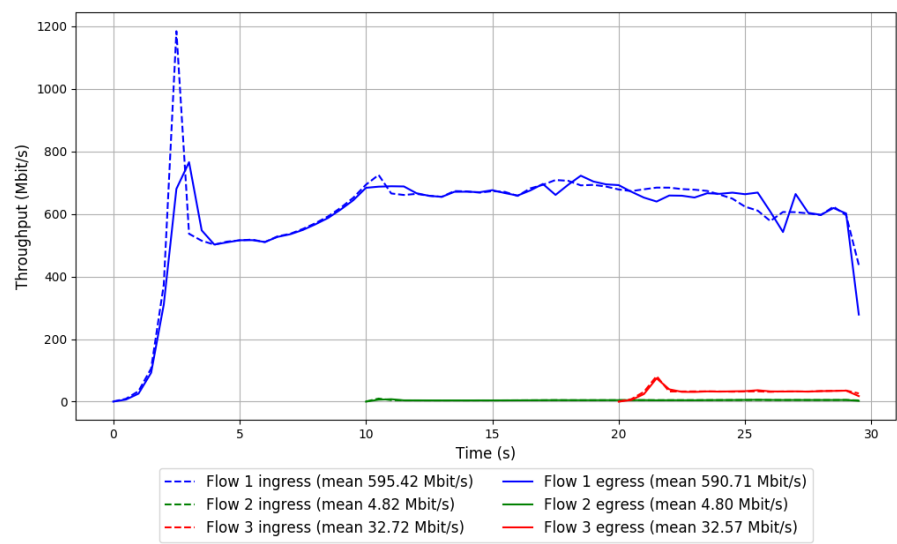


```
Run 4: Statistics of PCC

Start at: 2017-12-05 22:03:08
End at: 2017-12-05 22:03:38

# Below is generated by plot.py at 2017-12-06 01:56:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 604.45 Mbit/s
95th percentile per-packet one-way delay: 189.624 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 590.71 Mbit/s
95th percentile per-packet one-way delay: 189.513 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 188.439 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 191.601 ms
Loss rate: 2.53%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-05 22:16:41

End at: 2017-12-05 22:17:11

Below is generated by plot.py at 2017-12-06 01:56:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 607.32 Mbit/s

95th percentile per-packet one-way delay: 196.321 ms

Loss rate: 4.01%

-- Flow 1:

Average throughput: 477.65 Mbit/s

95th percentile per-packet one-way delay: 199.071 ms

Loss rate: 4.20%

-- Flow 2:

Average throughput: 133.79 Mbit/s

95th percentile per-packet one-way delay: 193.828 ms

Loss rate: 2.66%

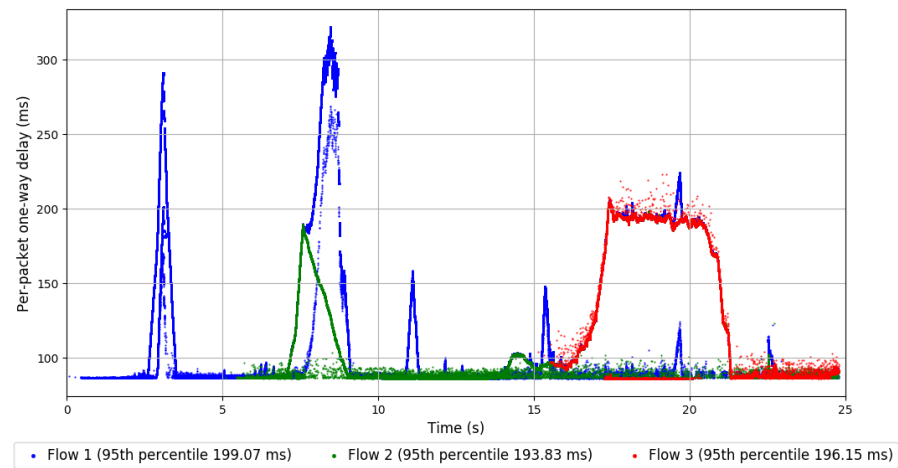
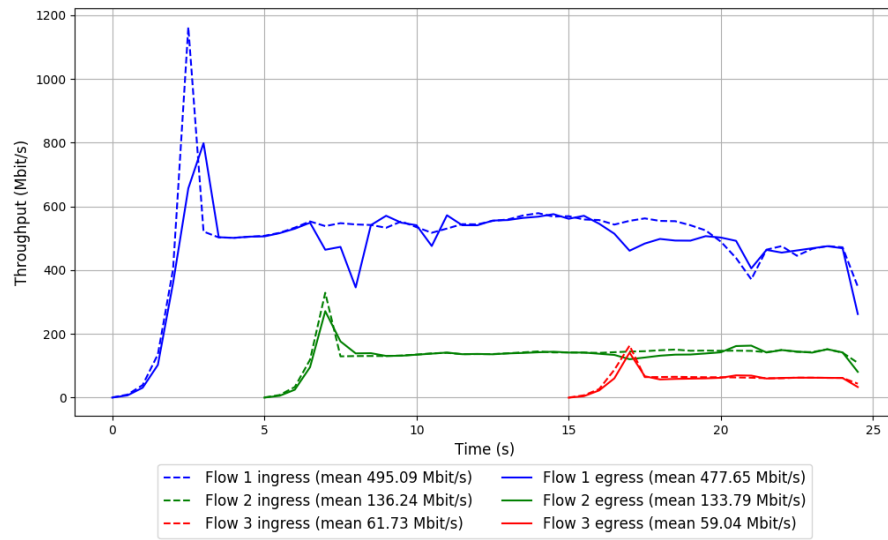
-- Flow 3:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 196.145 ms

Loss rate: 6.20%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-05 22:30:00

End at: 2017-12-05 22:30:30

Below is generated by plot.py at 2017-12-06 01:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 611.25 Mbit/s

95th percentile per-packet one-way delay: 211.560 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 553.58 Mbit/s

95th percentile per-packet one-way delay: 220.843 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 191.540 ms

Loss rate: 1.27%

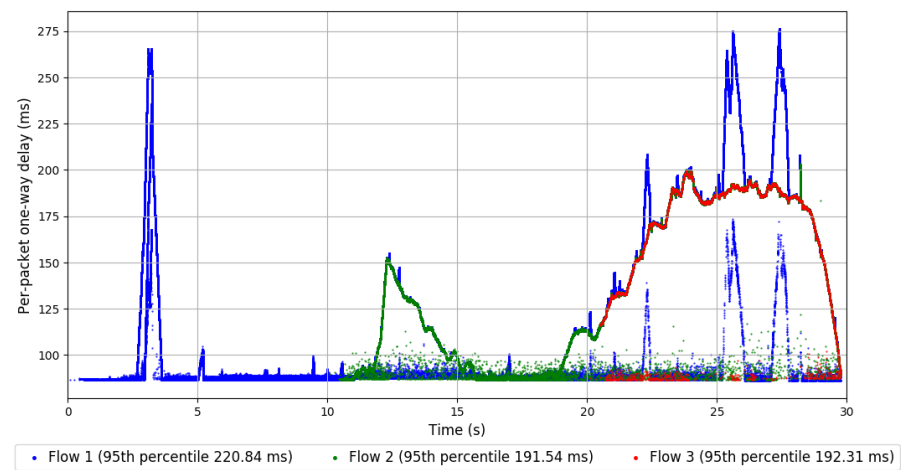
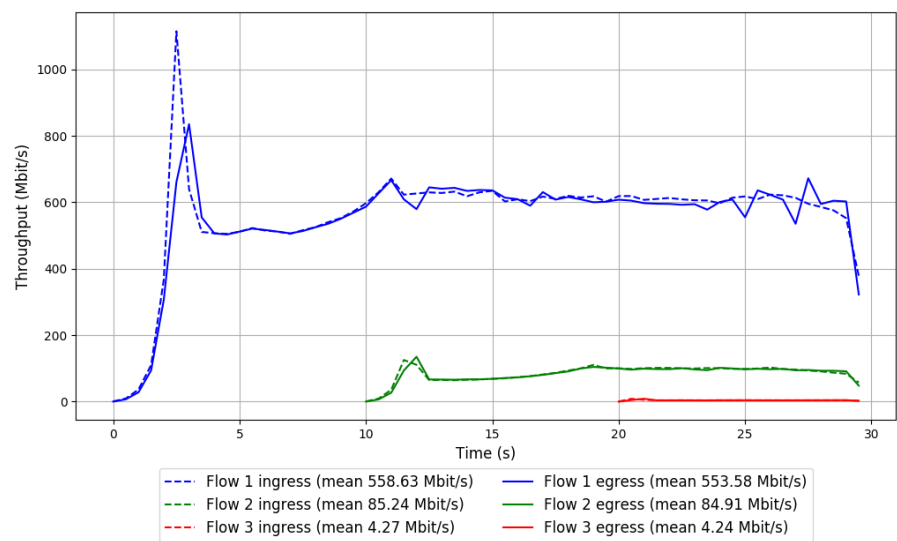
-- Flow 3:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 192.309 ms

Loss rate: 2.41%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-05 22:43:19

End at: 2017-12-05 22:43:49

Below is generated by plot.py at 2017-12-06 01:56:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 602.23 Mbit/s

95th percentile per-packet one-way delay: 151.712 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 579.08 Mbit/s

95th percentile per-packet one-way delay: 151.860 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 146.831 ms

Loss rate: 0.92%

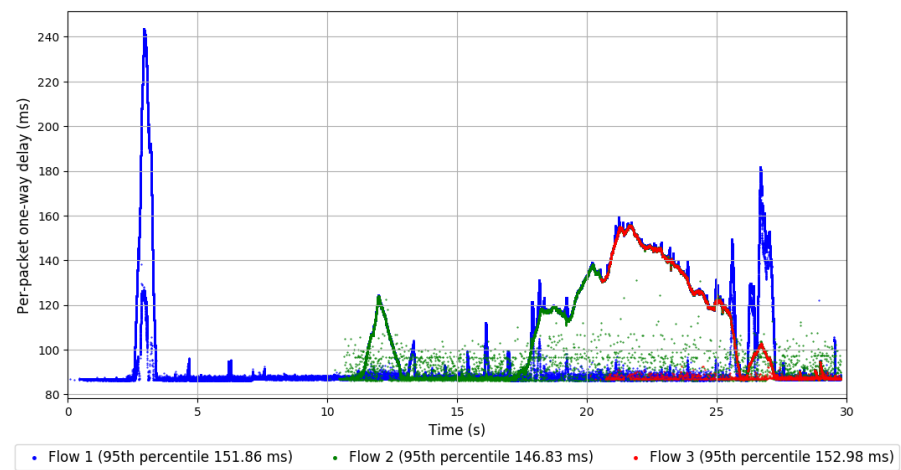
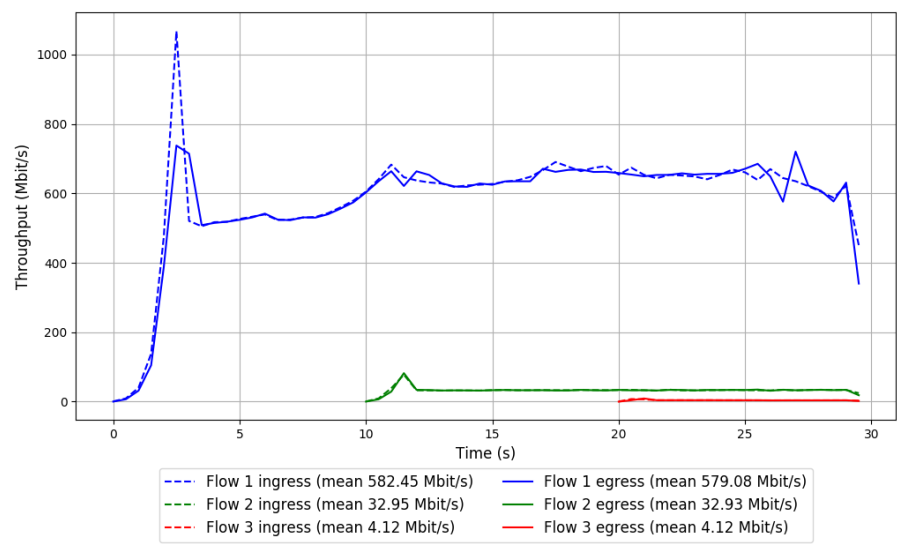
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 152.978 ms

Loss rate: 1.67%

Run 7: Report of PCC — Data Link

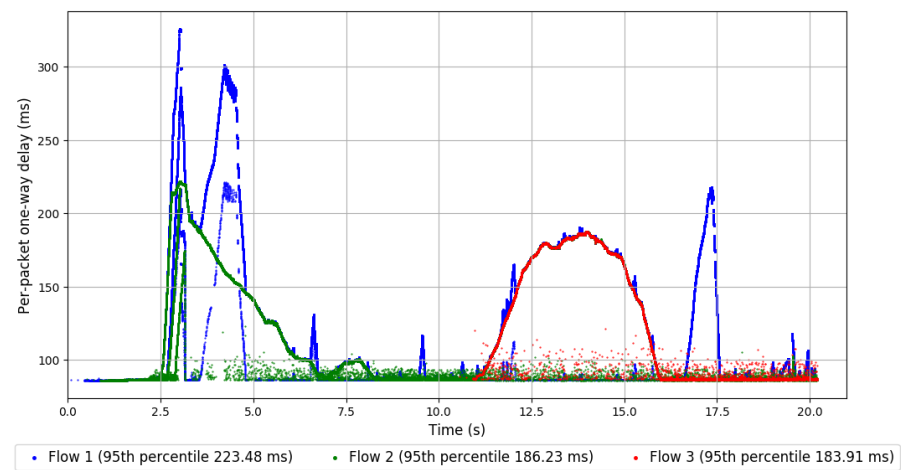
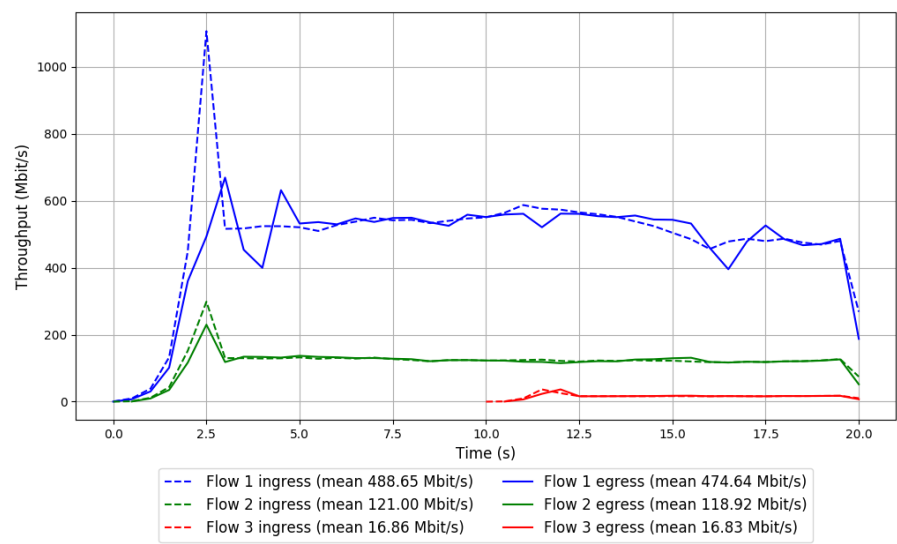


Run 8: Statistics of PCC

Start at: 2017-12-05 22:56:45

End at: 2017-12-05 22:57:15

Run 8: Report of PCC — Data Link

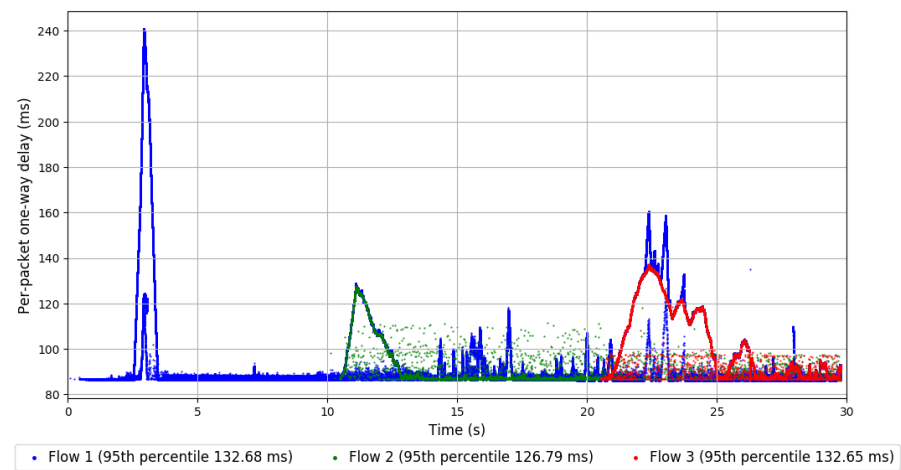
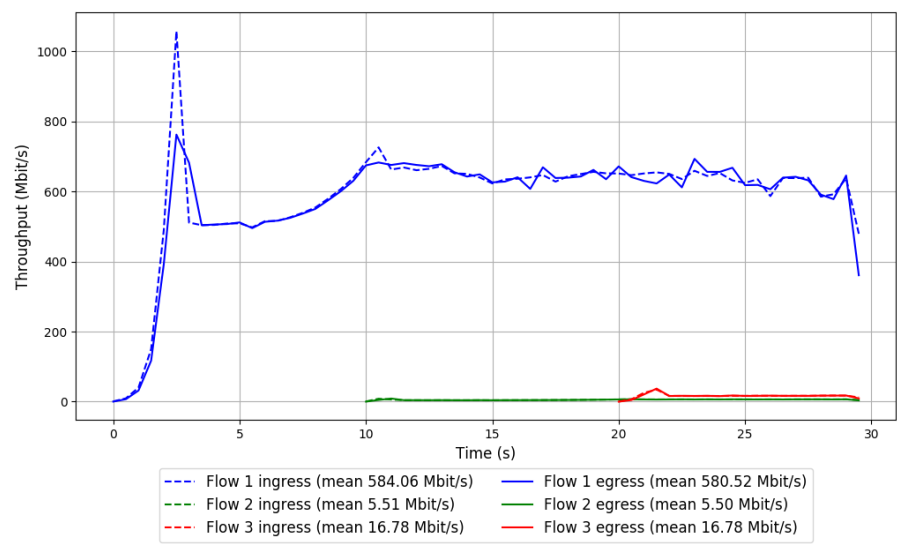


```
Run 9: Statistics of PCC

Start at: 2017-12-05 23:10:17
End at: 2017-12-05 23:10:47

# Below is generated by plot.py at 2017-12-06 02:02:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 589.56 Mbit/s
95th percentile per-packet one-way delay: 132.643 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 580.52 Mbit/s
95th percentile per-packet one-way delay: 132.677 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 126.790 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 16.78 Mbit/s
95th percentile per-packet one-way delay: 132.651 ms
Loss rate: 1.83%
```

Run 9: Report of PCC — Data Link

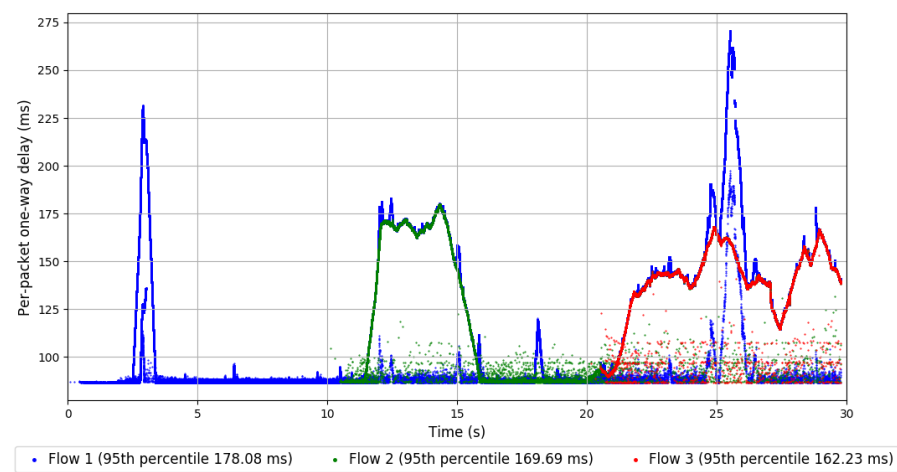
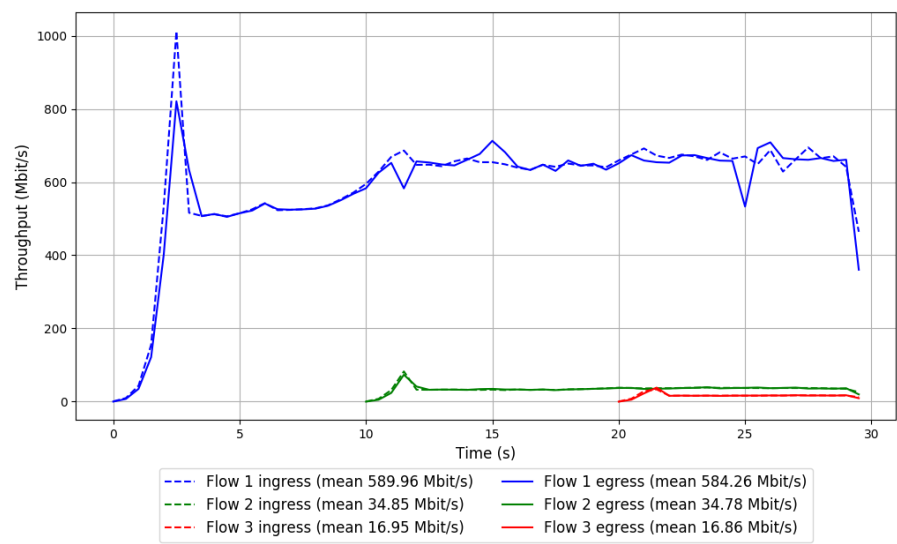


```
Run 10: Statistics of PCC

Start at: 2017-12-05 23:23:36
End at: 2017-12-05 23:24:06

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 612.76 Mbit/s
95th percentile per-packet one-way delay: 177.509 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 584.26 Mbit/s
95th percentile per-packet one-way delay: 178.077 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 169.694 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 162.227 ms
Loss rate: 2.37%
```

Run 10: Report of PCC — Data Link

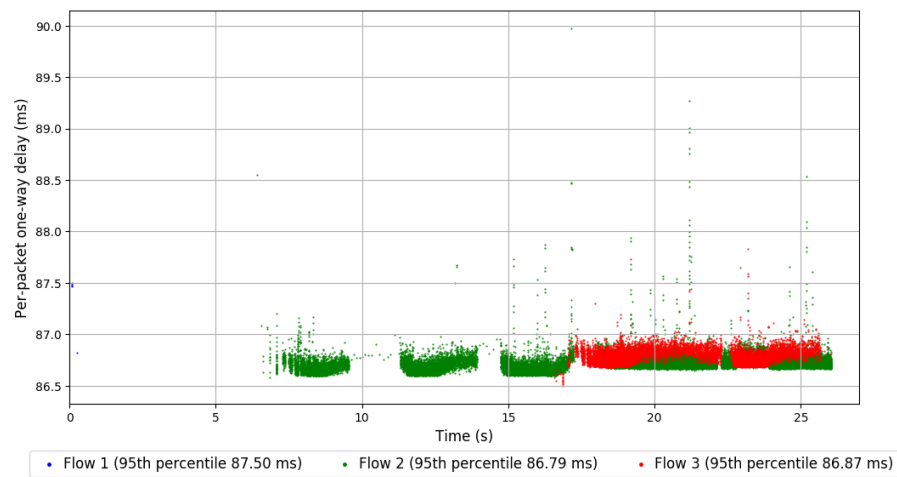
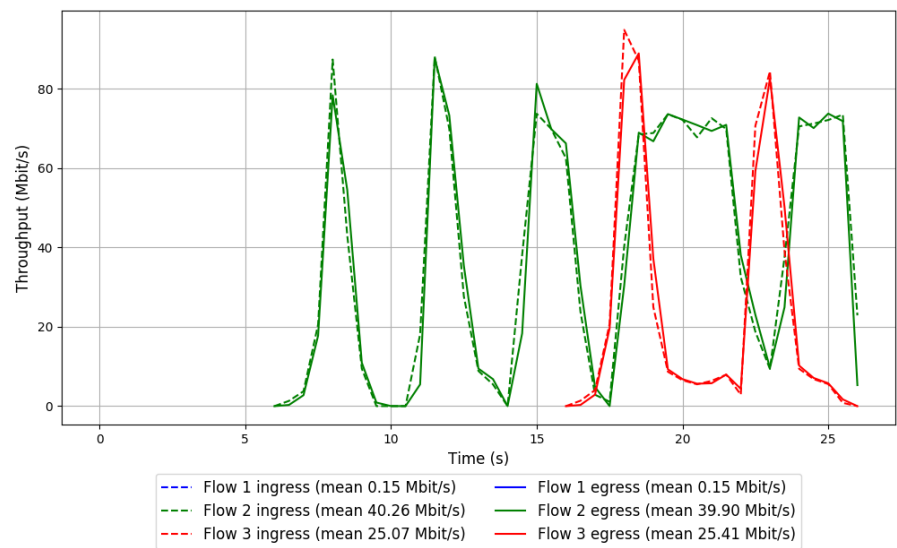


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 21:16:15
End at: 2017-12-05 21:16:45

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.58 Mbit/s
95th percentile per-packet one-way delay: 86.823 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 87.501 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 86.790 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 25.41 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 21:29:50

End at: 2017-12-05 21:30:20

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.23 Mbit/s

95th percentile per-packet one-way delay: 87.110 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 271.16 Mbit/s

95th percentile per-packet one-way delay: 87.307 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 87.135 ms

Loss rate: 1.53%

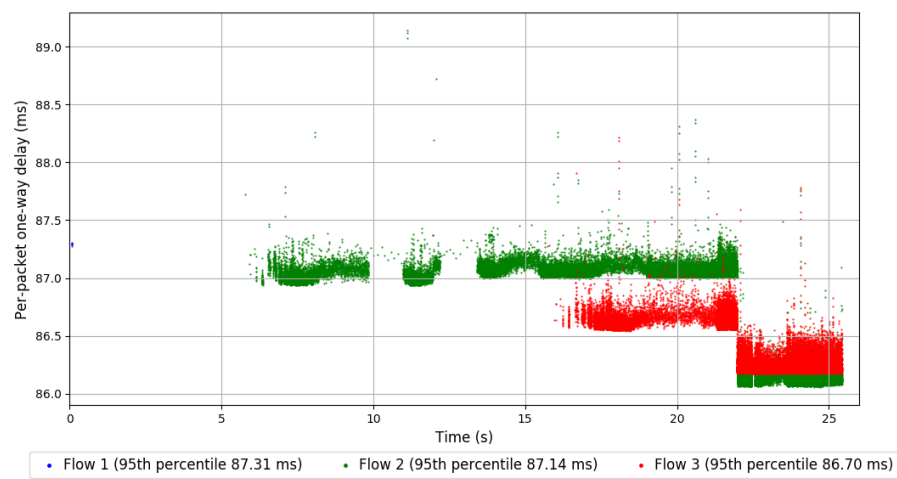
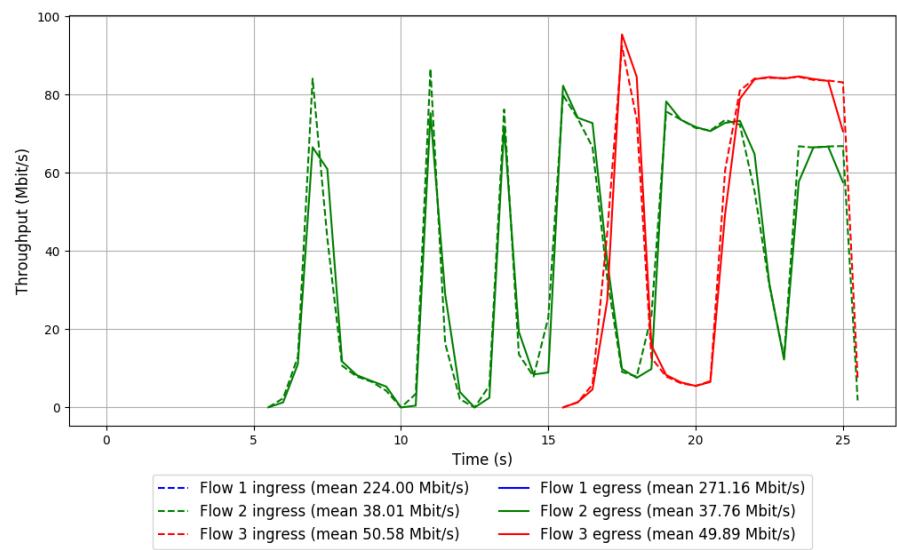
-- Flow 3:

Average throughput: 49.89 Mbit/s

95th percentile per-packet one-way delay: 86.704 ms

Loss rate: 3.43%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 21:43:38

End at: 2017-12-05 21:44:08

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.74 Mbit/s

95th percentile per-packet one-way delay: 86.815 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 66.91 Mbit/s

95th percentile per-packet one-way delay: 100.451 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 86.790 ms

Loss rate: 1.81%

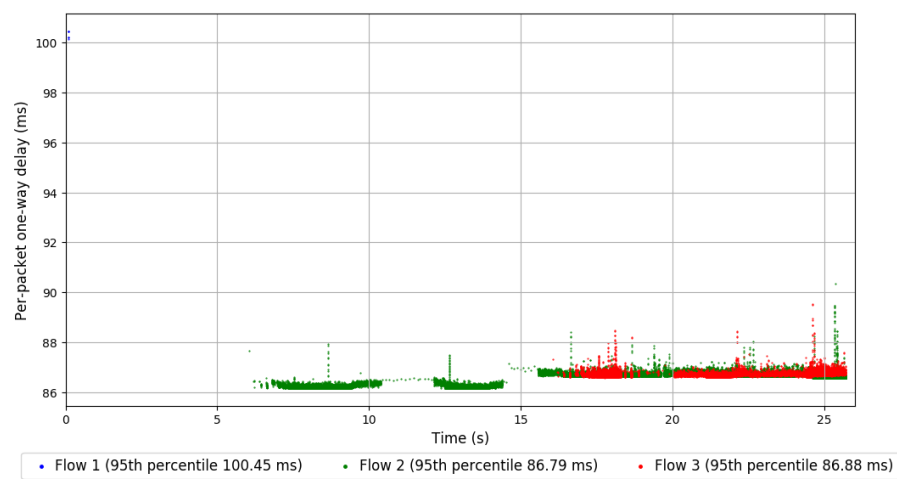
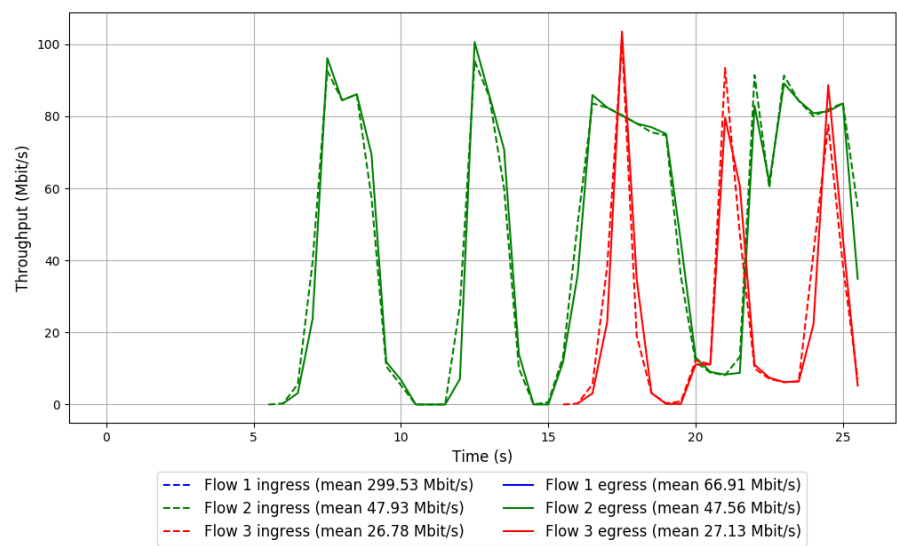
-- Flow 3:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 86.880 ms

Loss rate: 0.77%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 21:57:17

End at: 2017-12-05 21:57:47

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 87.130 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 87.121 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 41.55 Mbit/s

95th percentile per-packet one-way delay: 87.170 ms

Loss rate: 1.86%

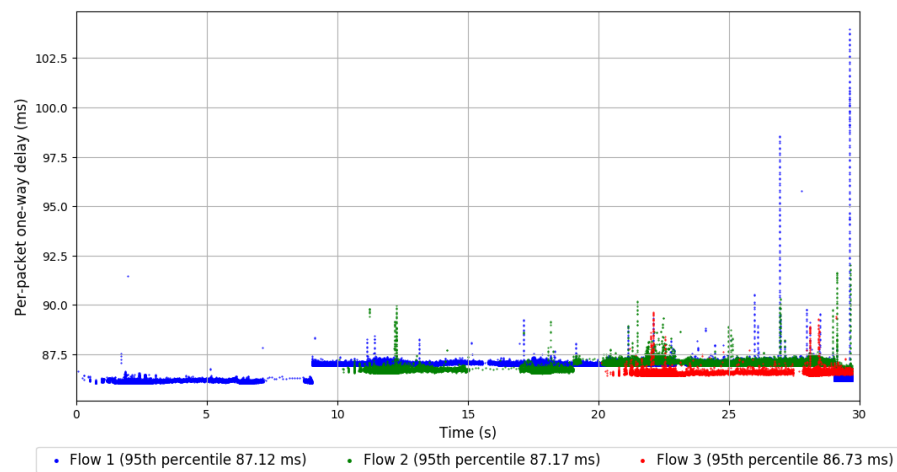
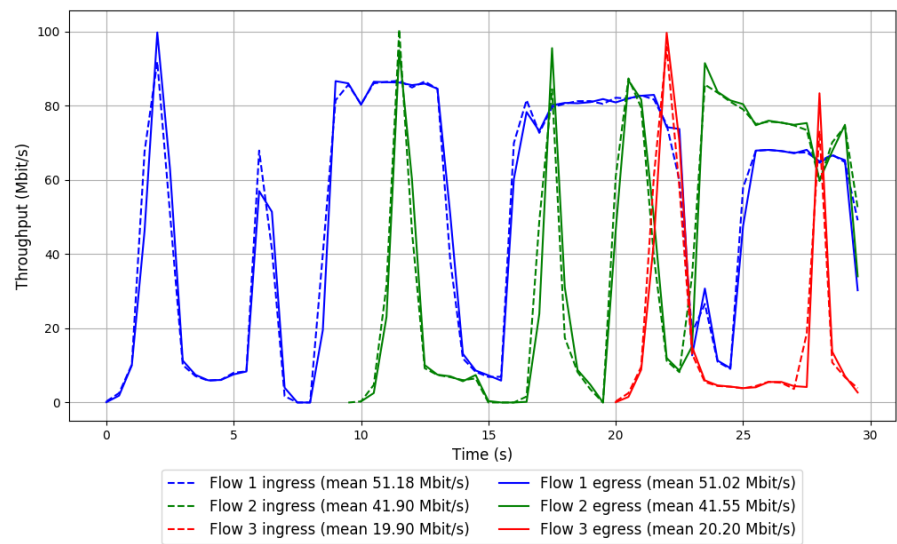
-- Flow 3:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 86.726 ms

Loss rate: 0.58%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 22:11:12

End at: 2017-12-05 22:11:42

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.63 Mbit/s

95th percentile per-packet one-way delay: 87.018 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 175.24 Mbit/s

95th percentile per-packet one-way delay: 87.953 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.36 Mbit/s

95th percentile per-packet one-way delay: 86.761 ms

Loss rate: 1.62%

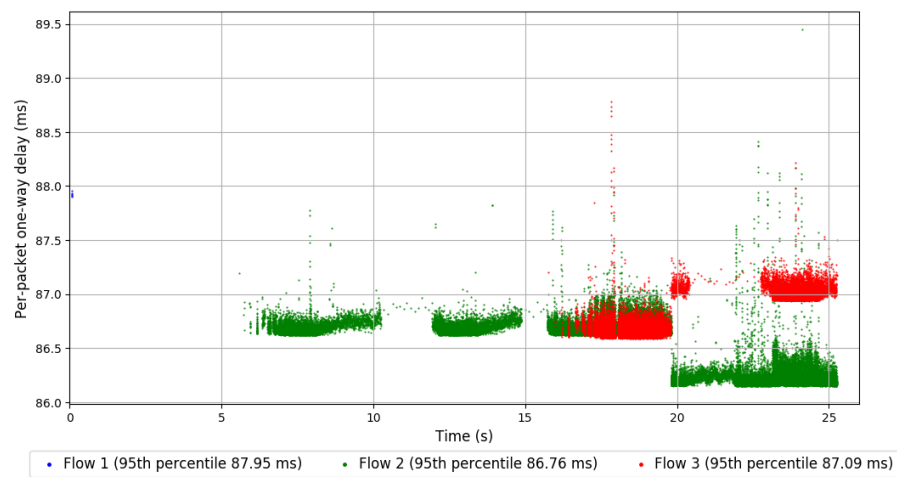
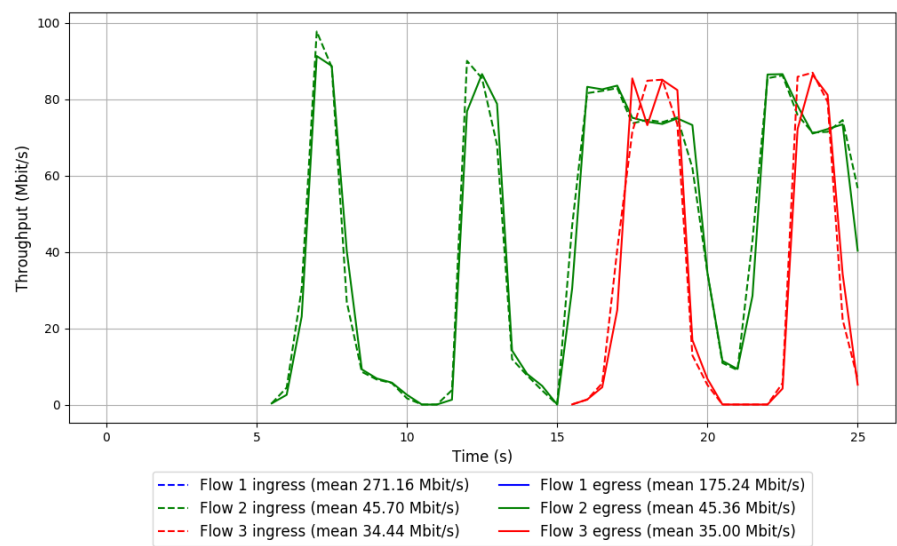
-- Flow 3:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 87.089 ms

Loss rate: 0.51%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-05 22:24:32

End at: 2017-12-05 22:25:02

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.51 Mbit/s

95th percentile per-packet one-way delay: 86.897 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 86.766 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: 87.002 ms

Loss rate: 1.54%

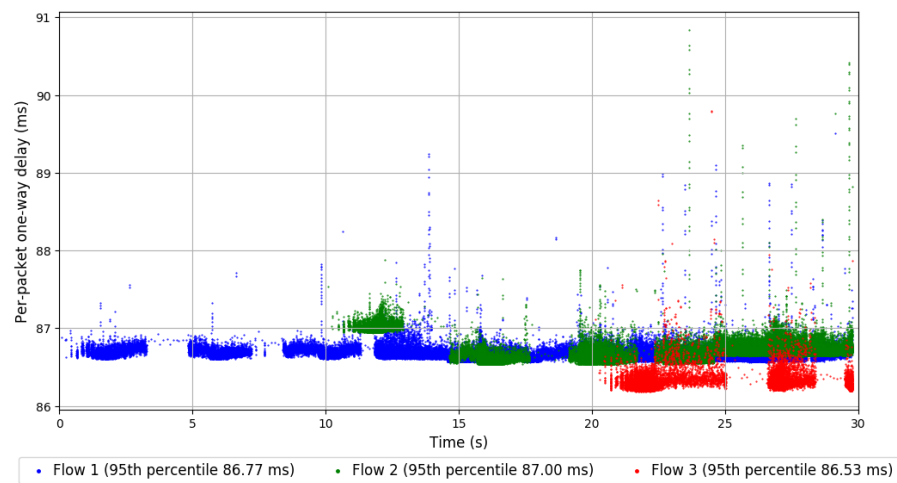
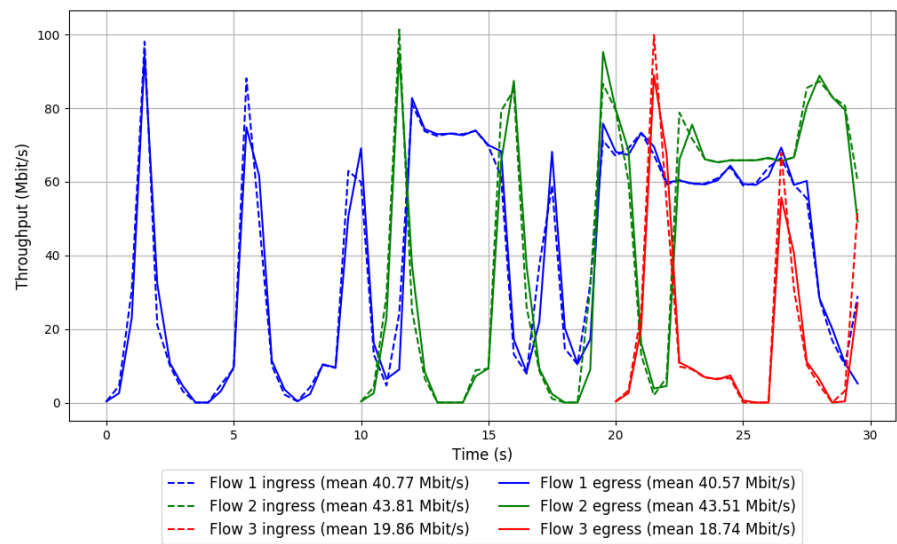
-- Flow 3:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 86.533 ms

Loss rate: 7.27%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-05 22:37:49

End at: 2017-12-05 22:38:19

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 86.974 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 87.001 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 42.16 Mbit/s

95th percentile per-packet one-way delay: 86.728 ms

Loss rate: 1.52%

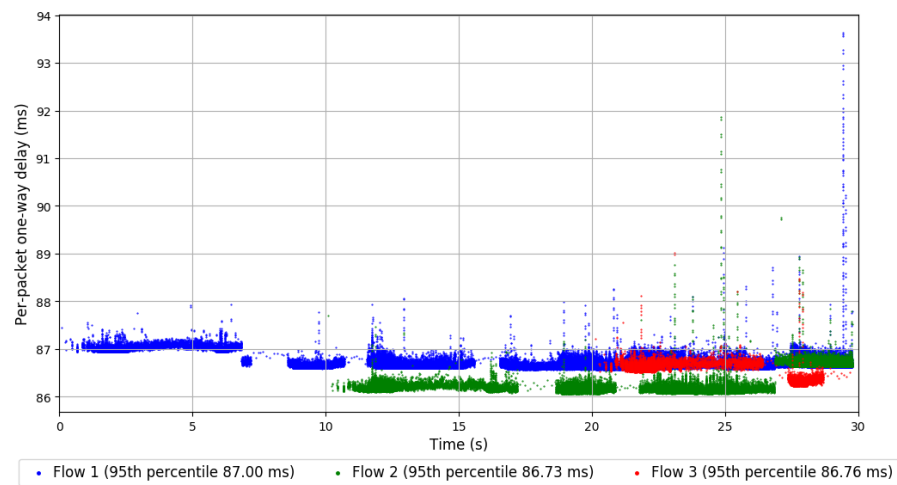
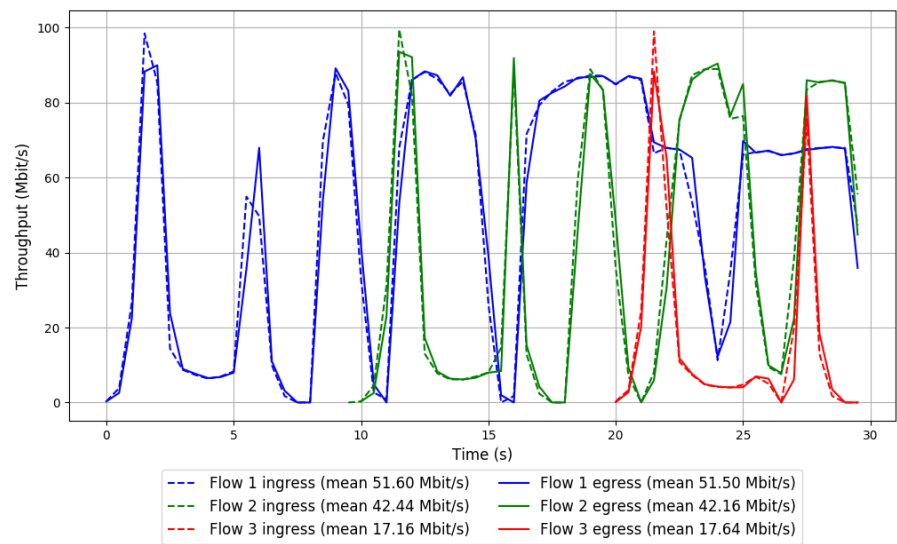
-- Flow 3:

Average throughput: 17.64 Mbit/s

95th percentile per-packet one-way delay: 86.757 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-05 22:51:07

End at: 2017-12-05 22:51:37

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 87.274 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 86.311 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 54.76 Mbit/s

95th percentile per-packet one-way delay: 87.328 ms

Loss rate: 1.00%

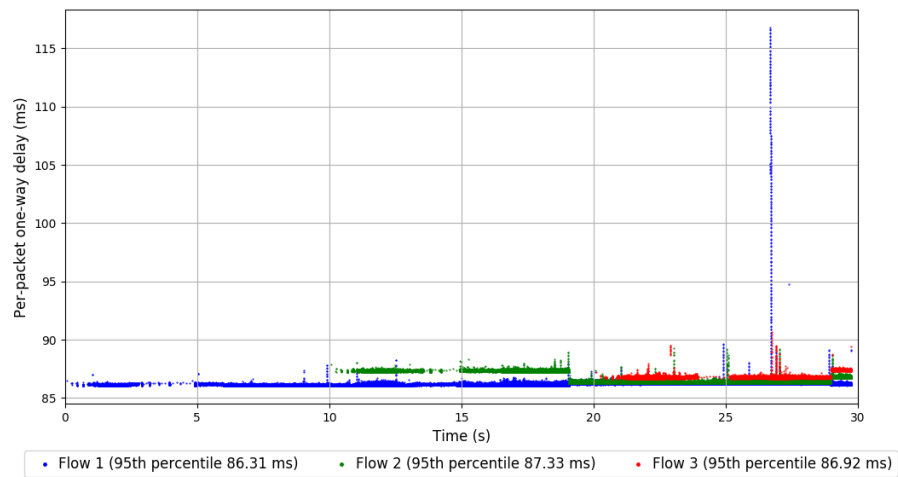
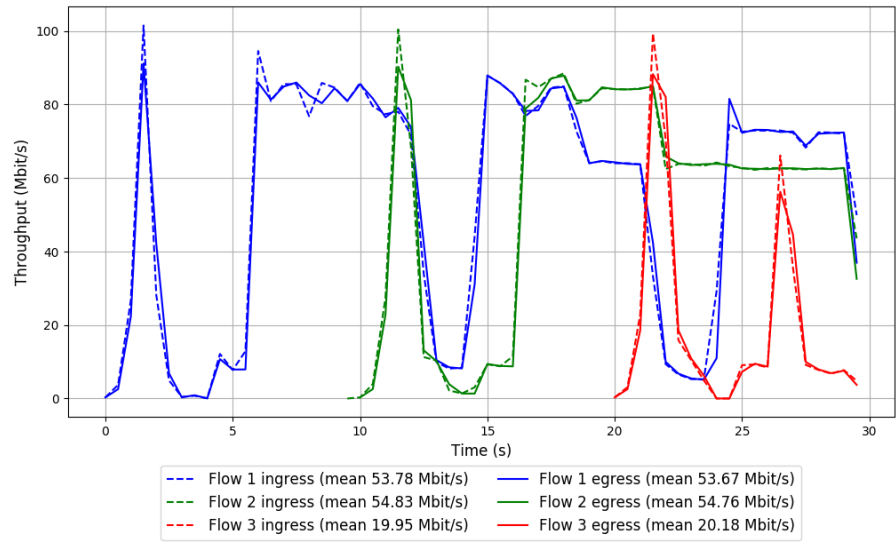
-- Flow 3:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 86.919 ms

Loss rate: 0.59%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-05 23:04:29

End at: 2017-12-05 23:04:59

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 86.845 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 1.99%

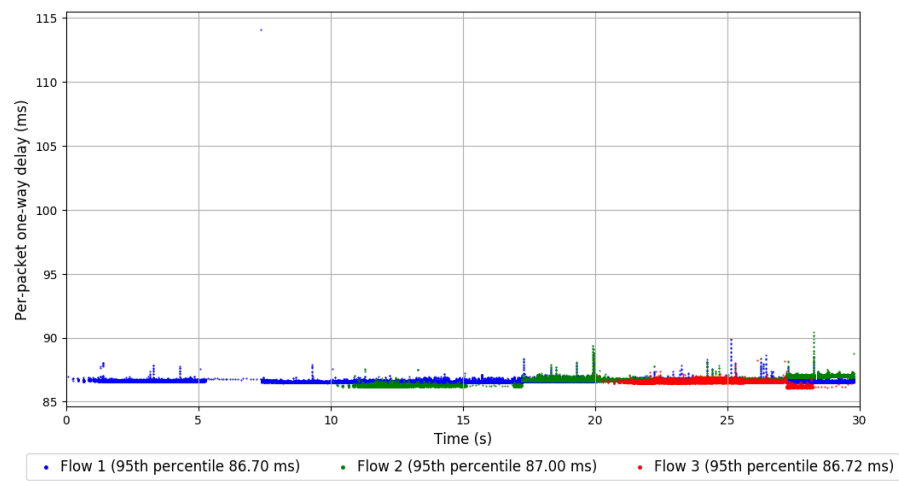
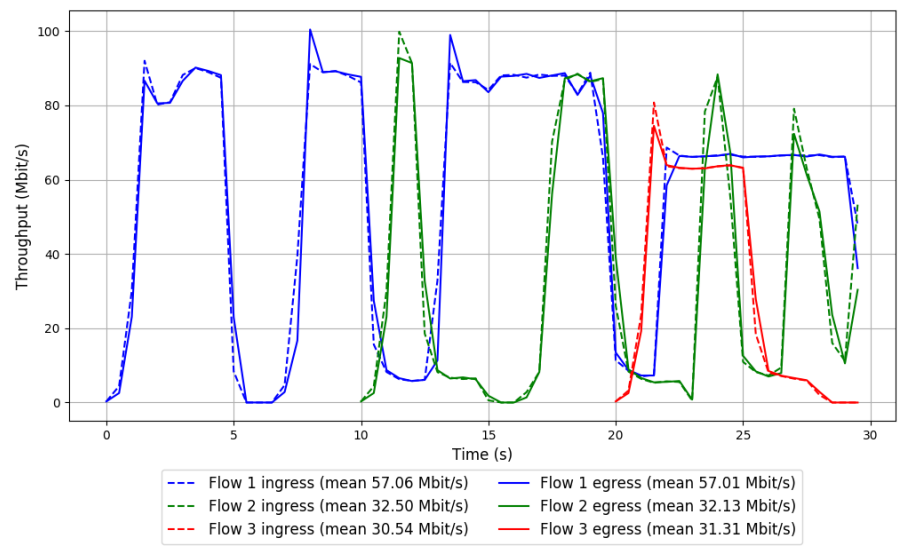
-- Flow 3:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 86.725 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

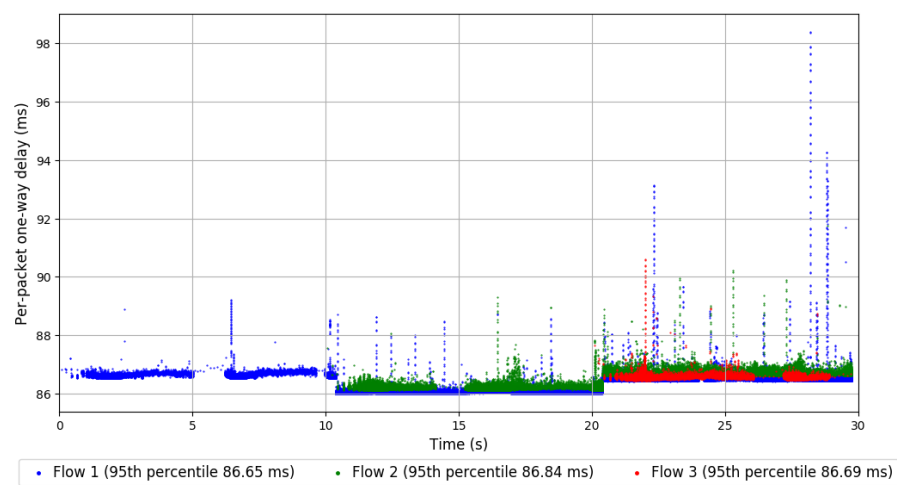
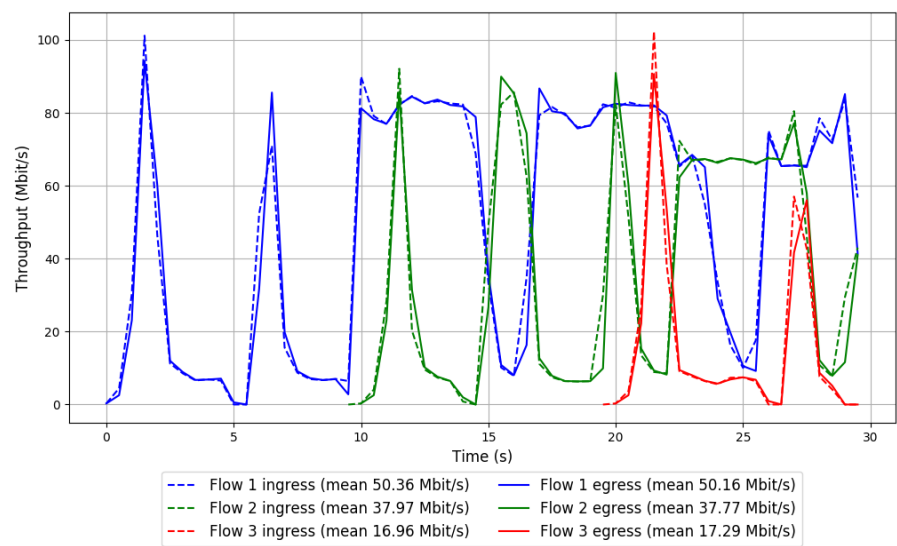


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-05 23:18:06
End at: 2017-12-05 23:18:36

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 86.750 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 86.653 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 37.77 Mbit/s
95th percentile per-packet one-way delay: 86.837 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 17.29 Mbit/s
95th percentile per-packet one-way delay: 86.692 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

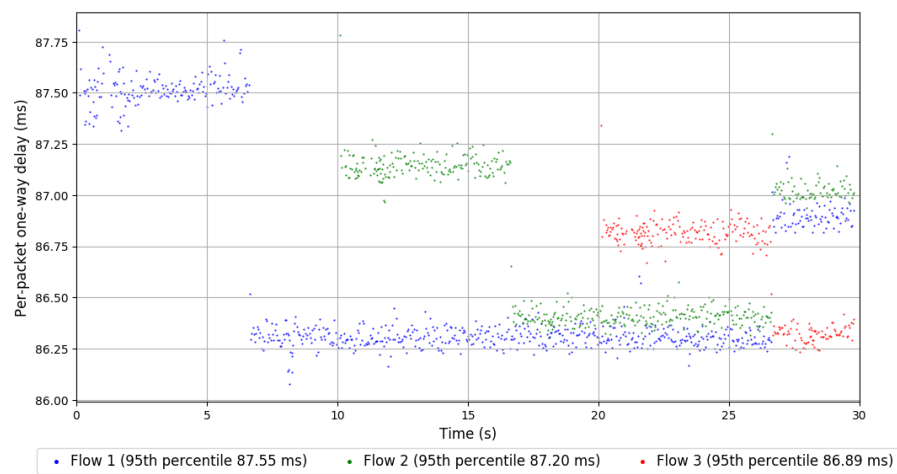
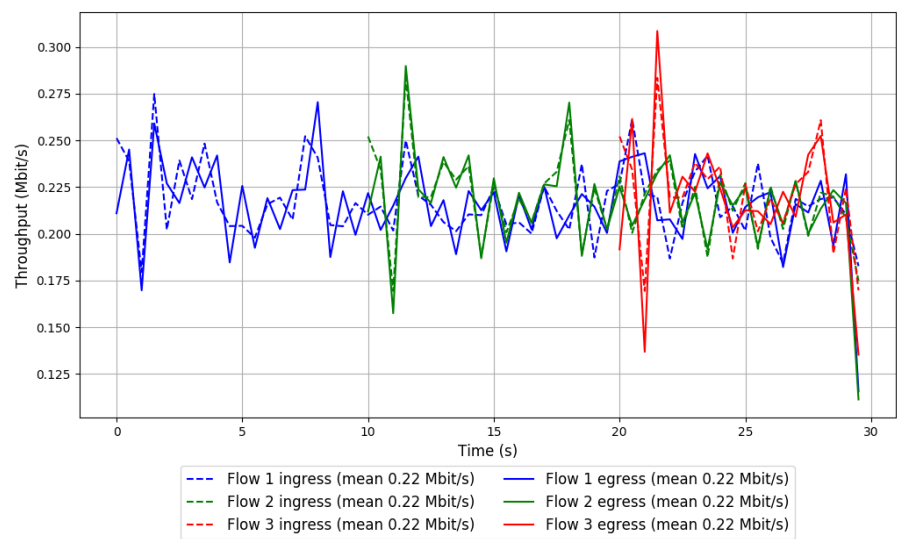


```
Run 1: Statistics of SCReAM

Start at: 2017-12-05 21:23:00
End at: 2017-12-05 21:23:30

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.518 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.551 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.197 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.885 ms
Loss rate: 1.88%
```

Run 1: Report of SReAM — Data Link

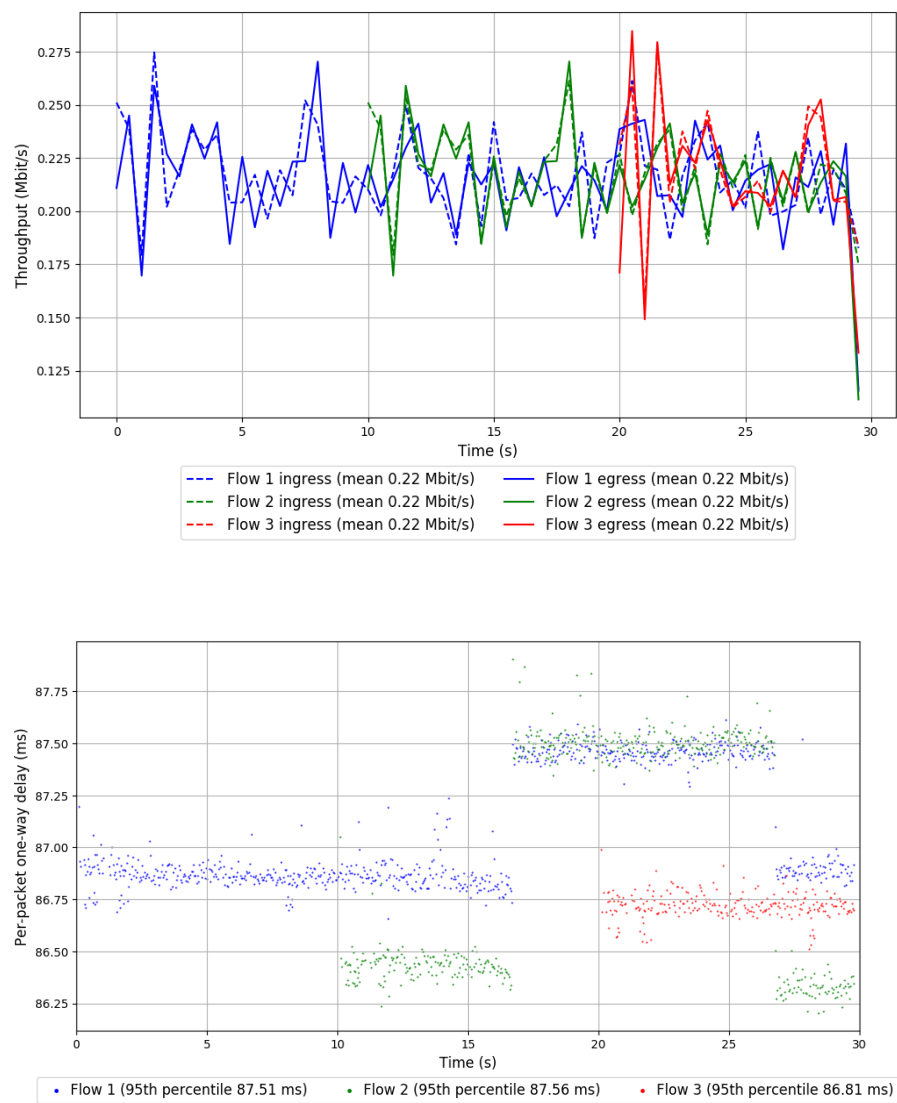


```
Run 2: Statistics of SReAM

Start at: 2017-12-05 21:36:49
End at: 2017-12-05 21:37:19

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.536 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.508 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.559 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.812 ms
Loss rate: 1.87%
```

Run 2: Report of SReAM — Data Link

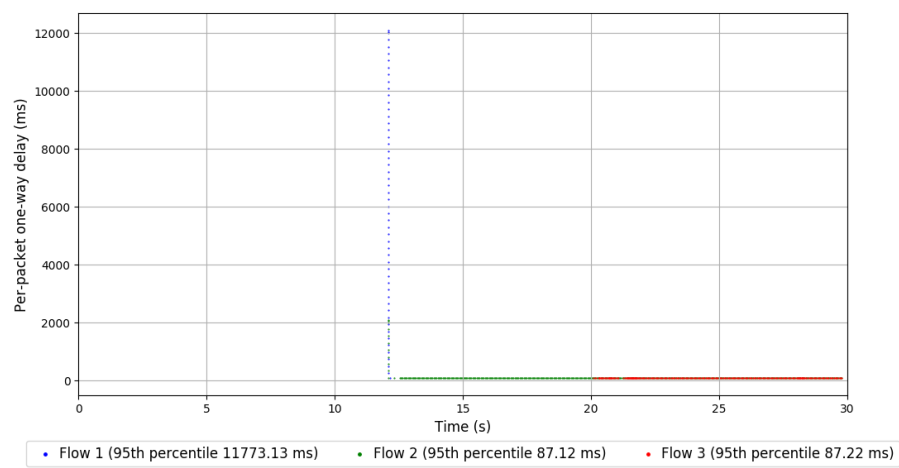
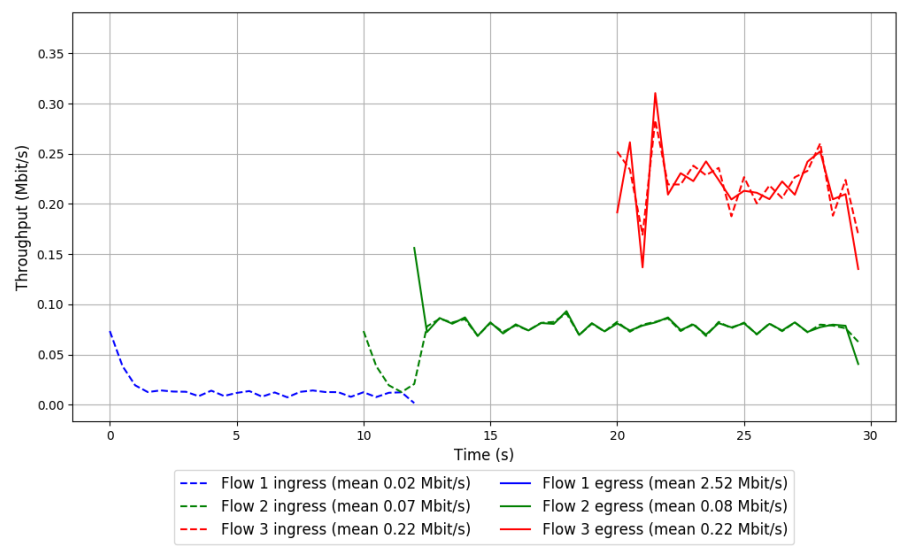


Run 3: Statistics of SReAM

Start at: 2017-12-05 21:50:24

End at: 2017-12-05 21:50:54

Run 3: Report of SReAM — Data Link

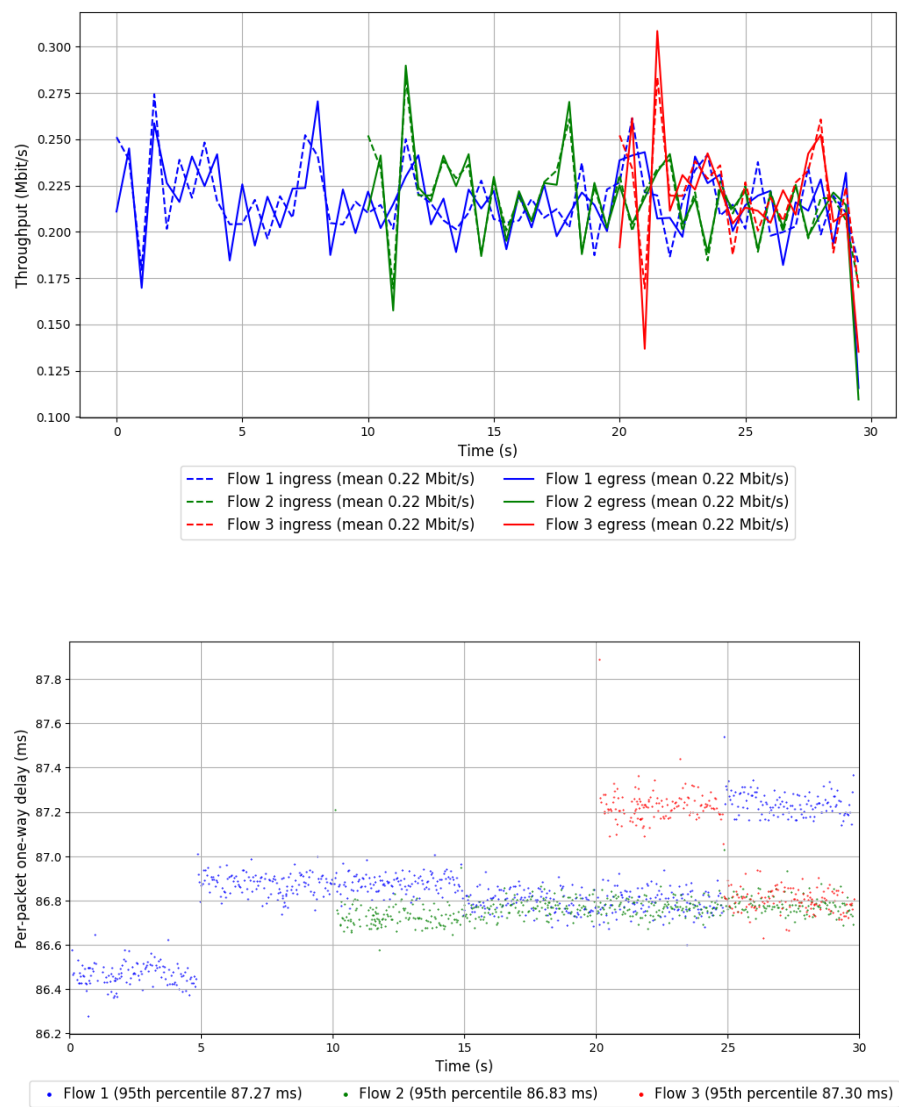


```
Run 4: Statistics of SReAM

Start at: 2017-12-05 22:04:21
End at: 2017-12-05 22:04:51

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.256 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.269 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.300 ms
Loss rate: 1.88%
```

Run 4: Report of SReAM — Data Link

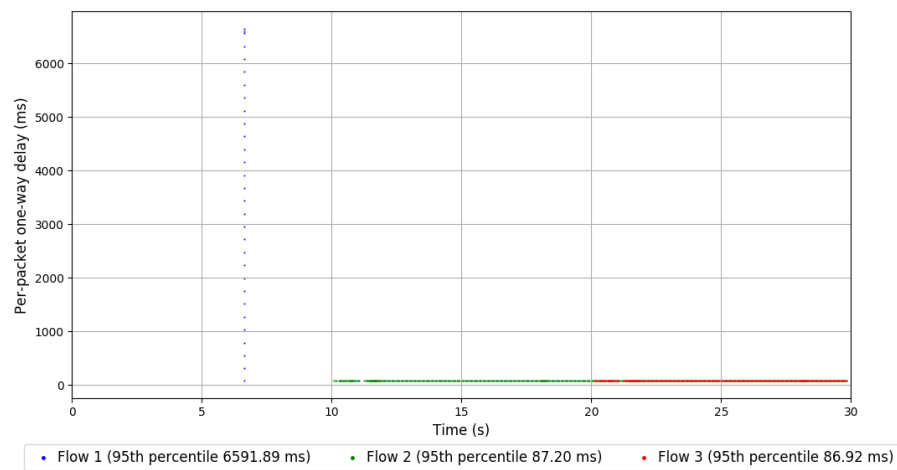
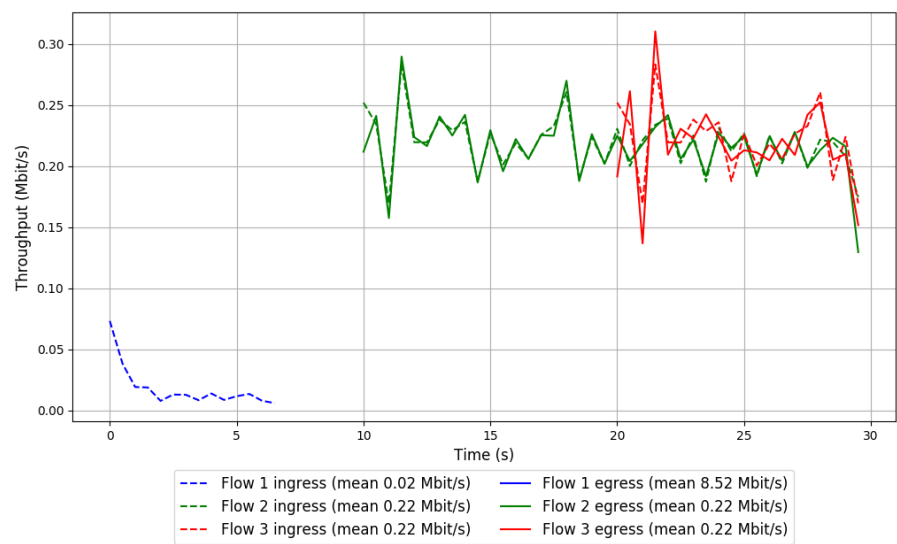


Run 5: Statistics of SReAM

Start at: 2017-12-05 22:17:47

End at: 2017-12-05 22:18:18

Run 5: Report of SReAM — Data Link

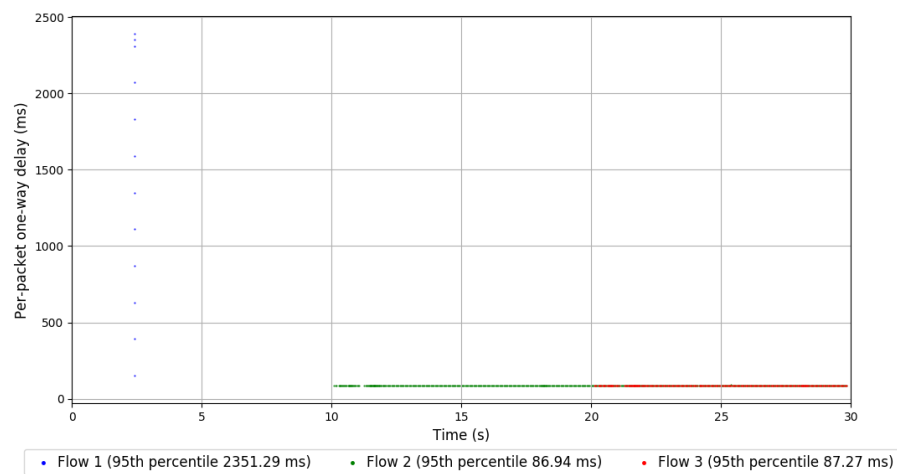
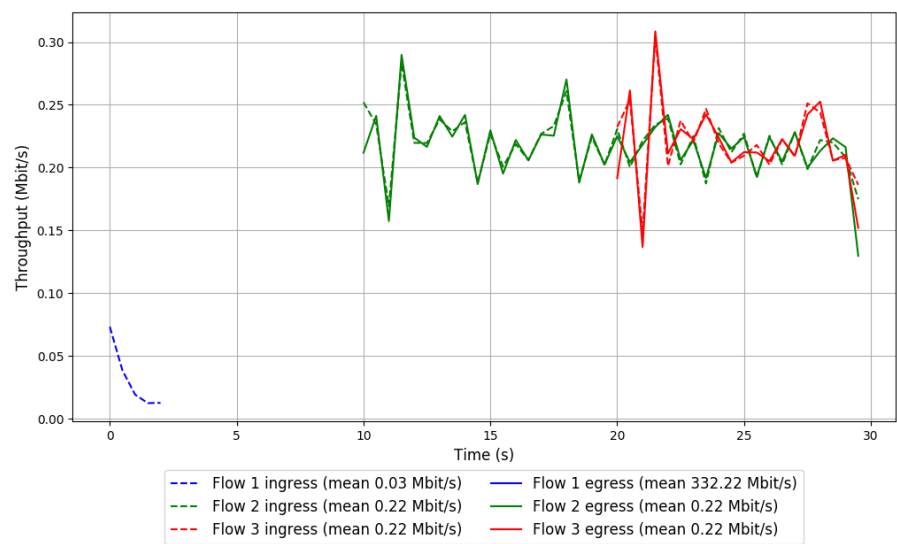


```
Run 6: Statistics of SReAM

Start at: 2017-12-05 22:31:10
End at: 2017-12-05 22:31:40

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 87.251 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 332.22 Mbit/s
95th percentile per-packet one-way delay: 2351.289 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.941 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.270 ms
Loss rate: 1.50%
```

Run 6: Report of SReAM — Data Link

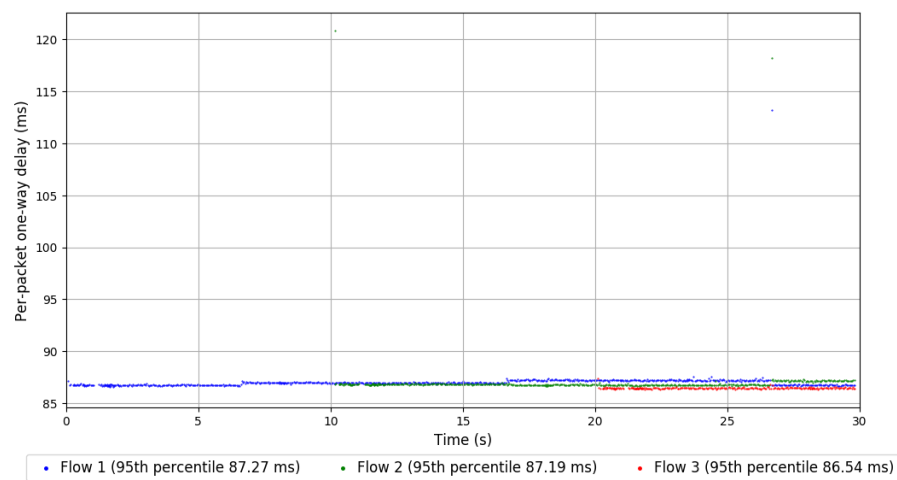
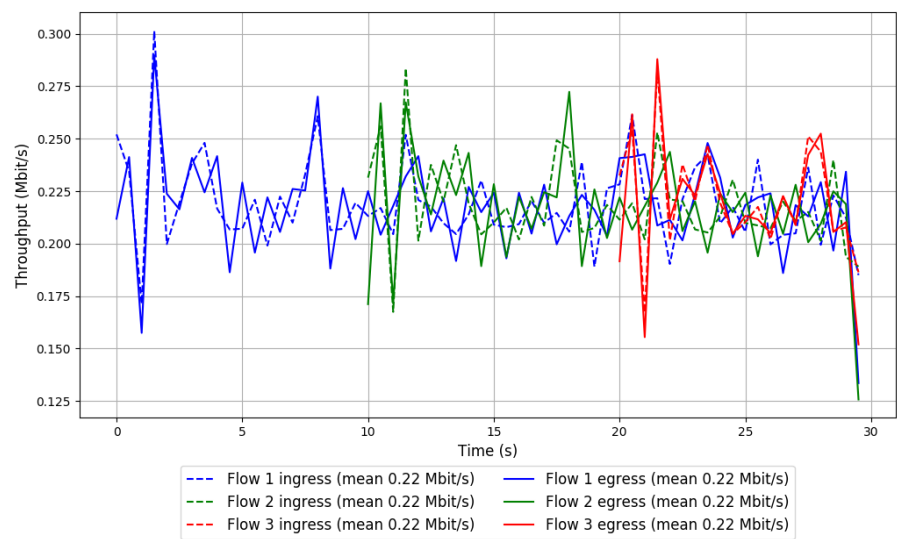


```
Run 7: Statistics of SReAM

Start at: 2017-12-05 22:44:30
End at: 2017-12-05 22:45:00

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.245 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.270 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.192 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.540 ms
Loss rate: 1.50%
```


Run 7: Report of SReAM — Data Link

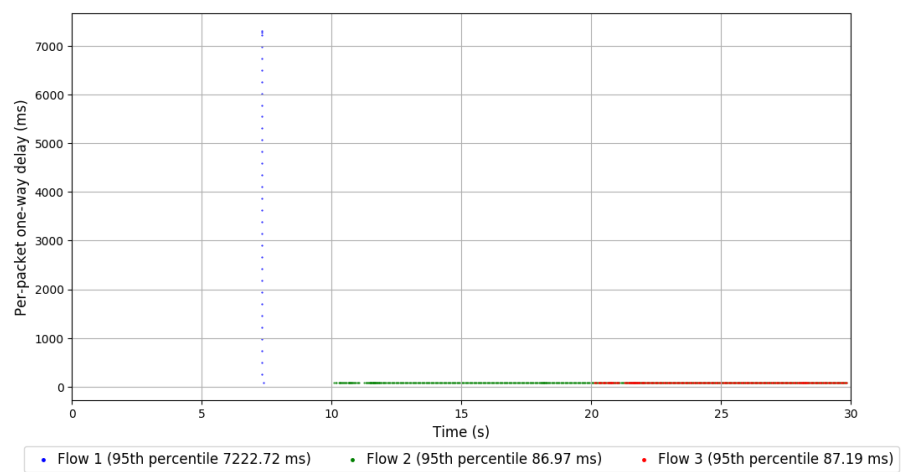
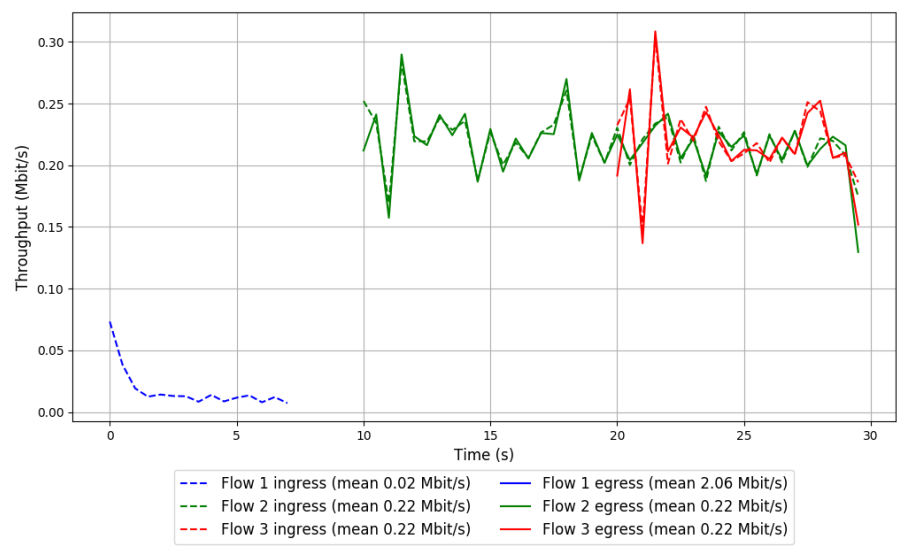


Run 8: Statistics of SReAM

Start at: 2017-12-05 22:57:47

End at: 2017-12-05 22:58:17

Run 8: Report of SReAM — Data Link

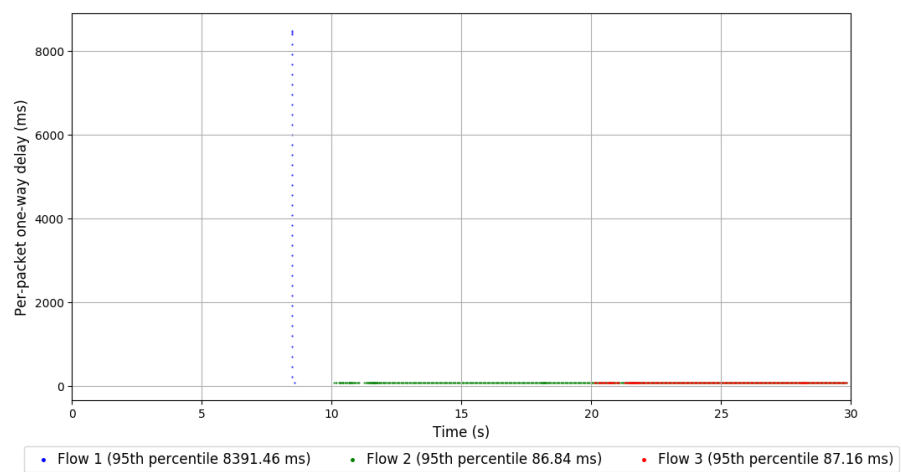
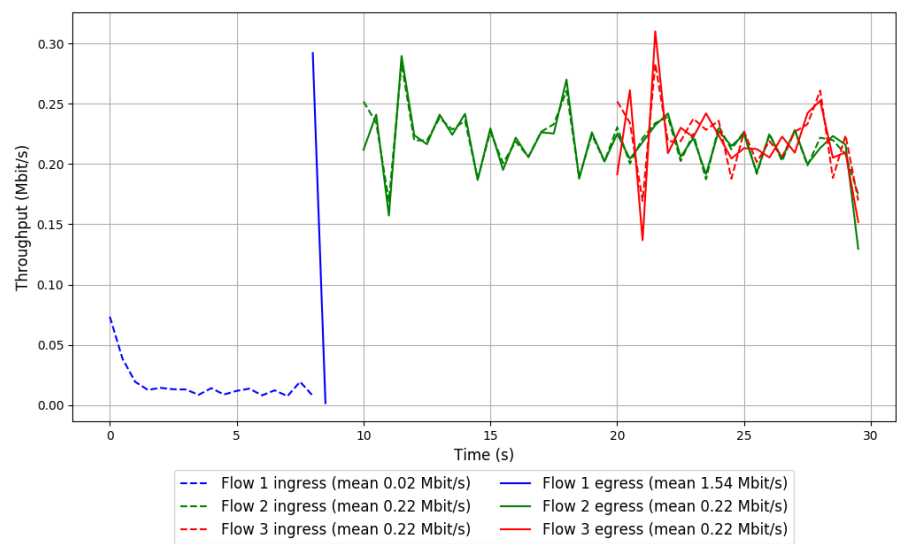


Run 9: Statistics of SReAM

Start at: 2017-12-05 23:11:25

End at: 2017-12-05 23:11:55

Run 9: Report of SReAM — Data Link

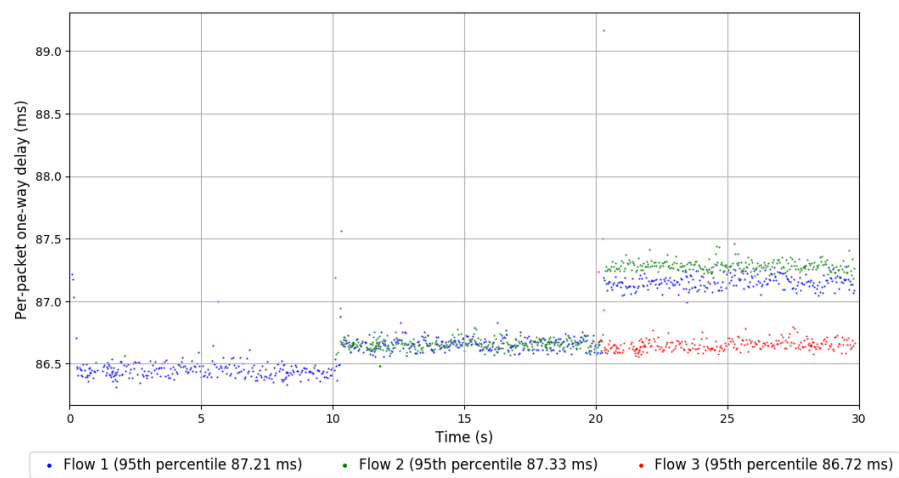
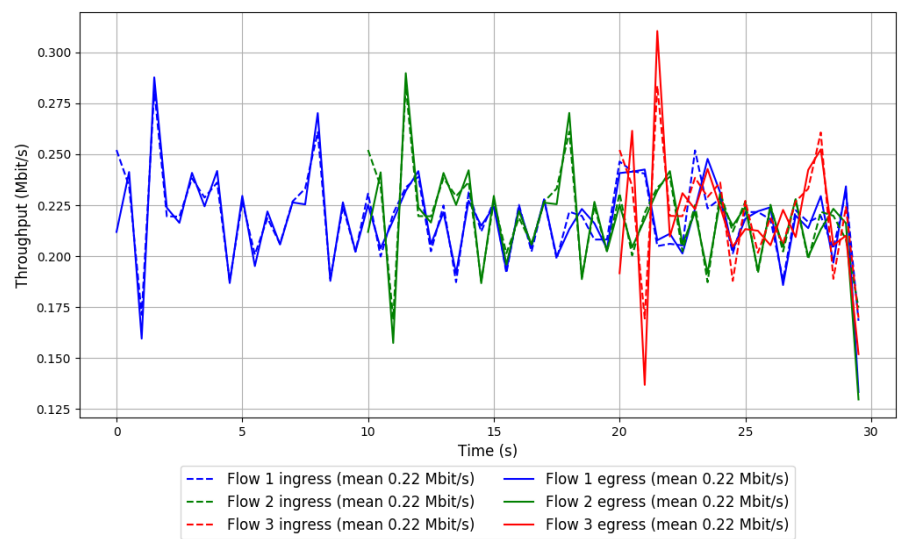


```
Run 10: Statistics of SReAM

Start at: 2017-12-05 23:24:46
End at: 2017-12-05 23:25:16

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.301 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.211 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.331 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.719 ms
Loss rate: 1.50%
```

Run 10: Report of SCReAM — Data Link

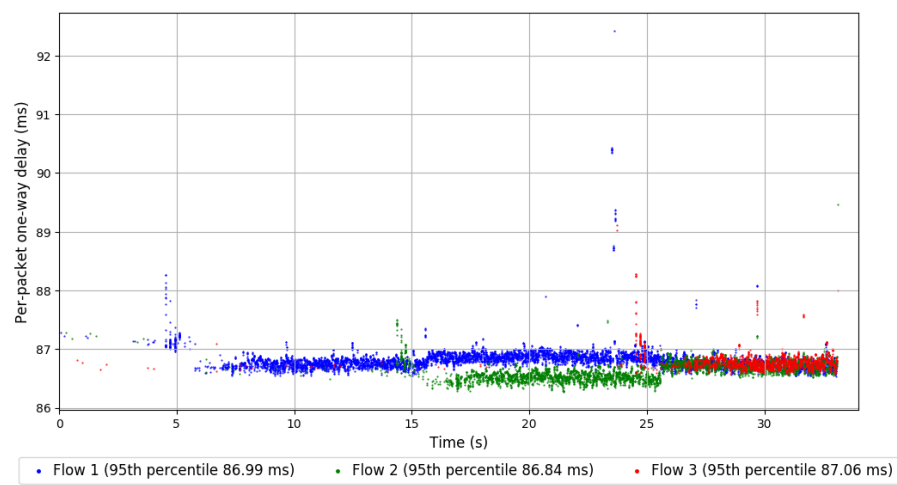
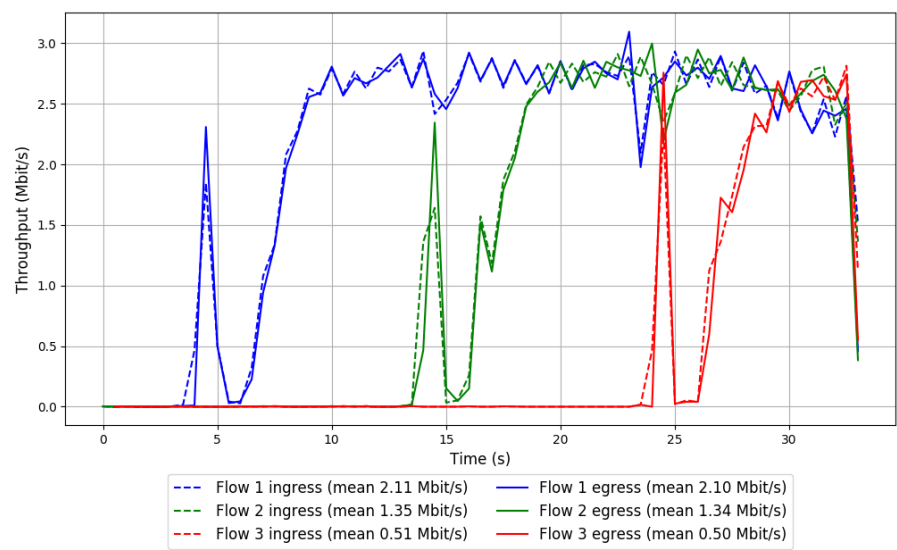


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-05 21:14:44
End at: 2017-12-05 21:15:14

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 86.966 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 86.990 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 86.844 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 87.055 ms
Loss rate: 3.30%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-05 21:28:19

End at: 2017-12-05 21:28:49

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 87.279 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 87.302 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 87.241 ms

Loss rate: 1.80%

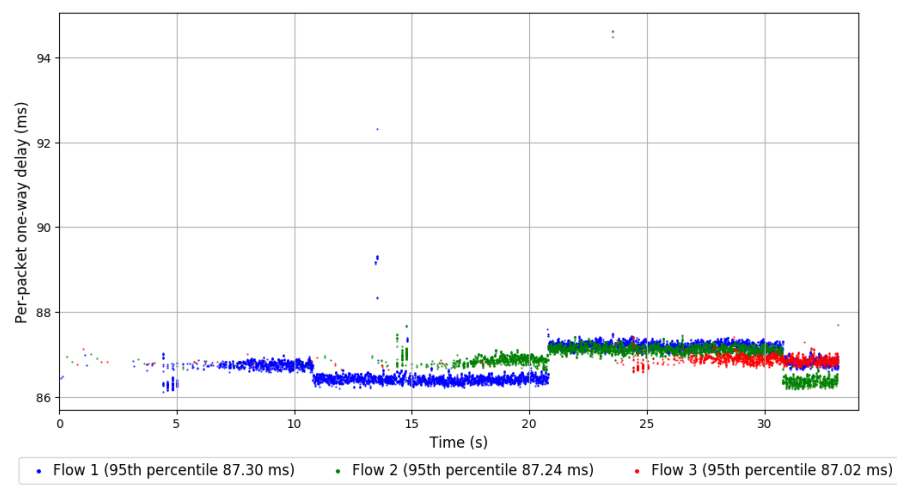
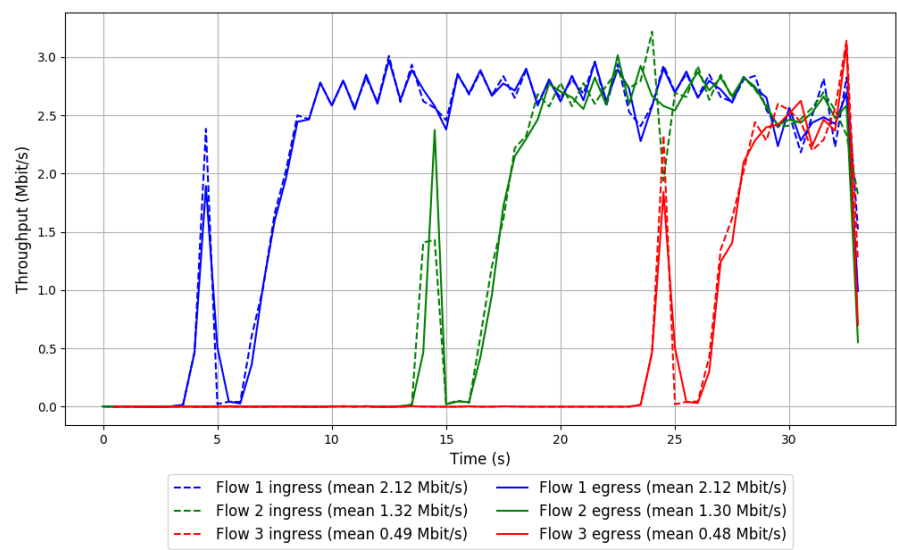
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 87.016 ms

Loss rate: 3.11%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-05 21:42:06

End at: 2017-12-05 21:42:36

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 86.997 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.497 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 87.064 ms

Loss rate: 1.04%

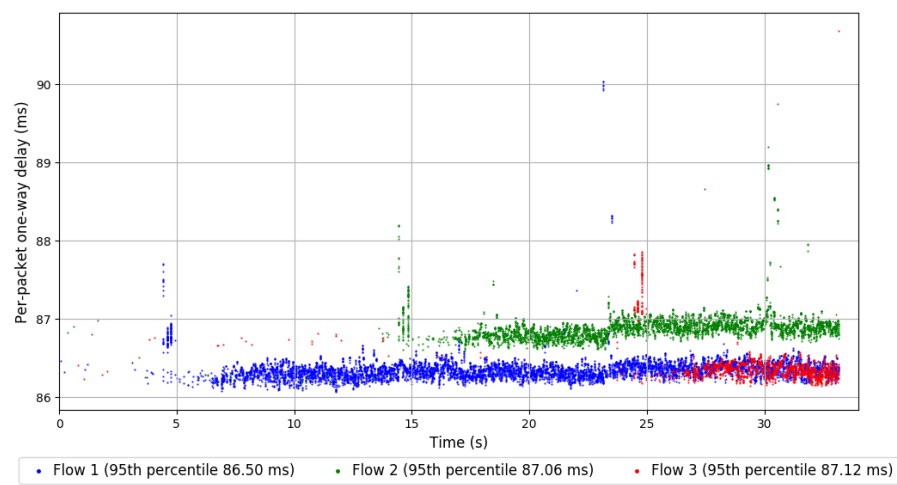
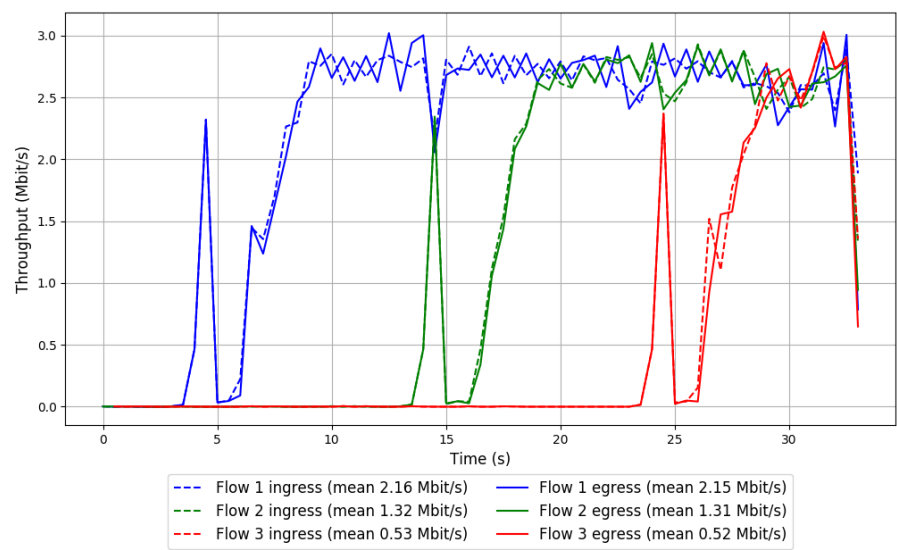
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.119 ms

Loss rate: 3.22%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-05 21:55:46

End at: 2017-12-05 21:56:16

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.261 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.143 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.307 ms

Loss rate: 0.84%

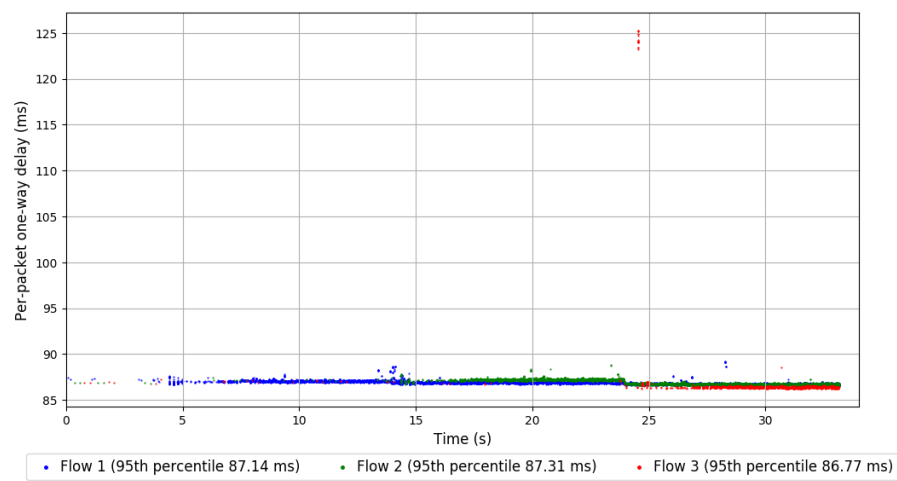
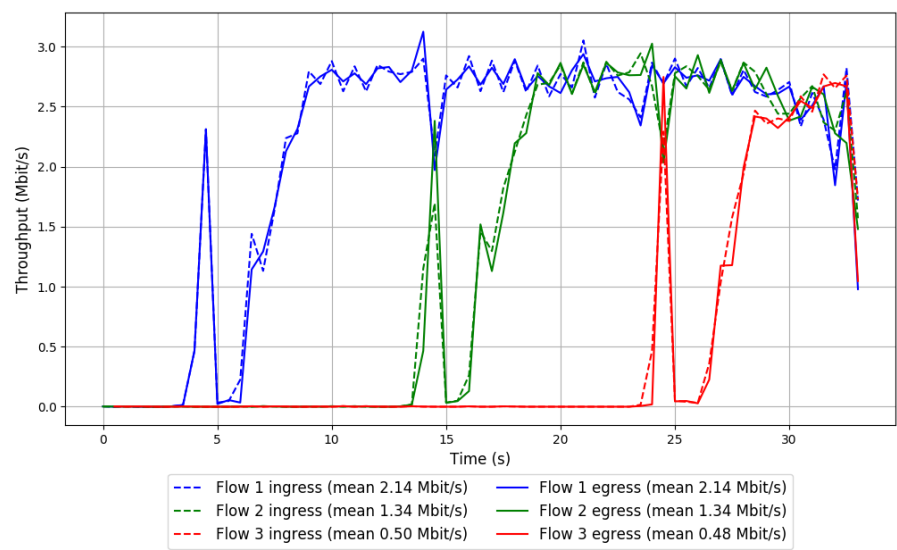
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 86.768 ms

Loss rate: 3.82%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-05 22:09:40

End at: 2017-12-05 22:10:10

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.045 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.132 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.969 ms

Loss rate: 1.27%

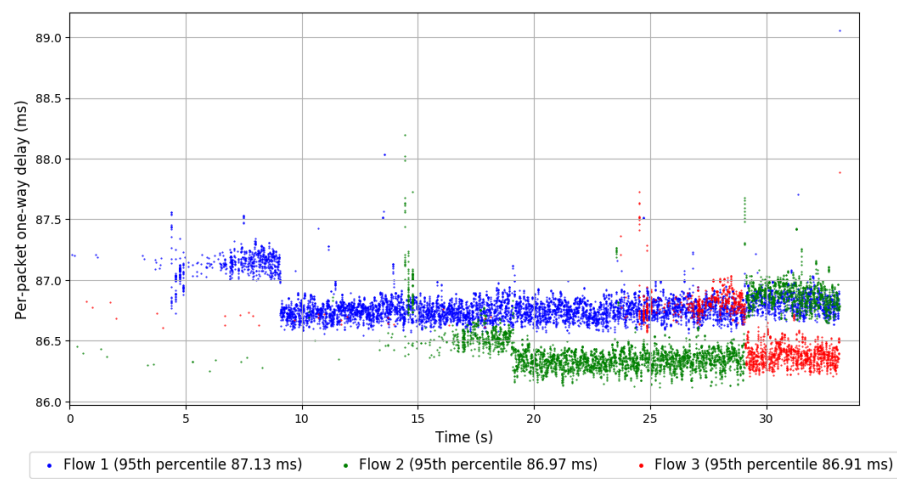
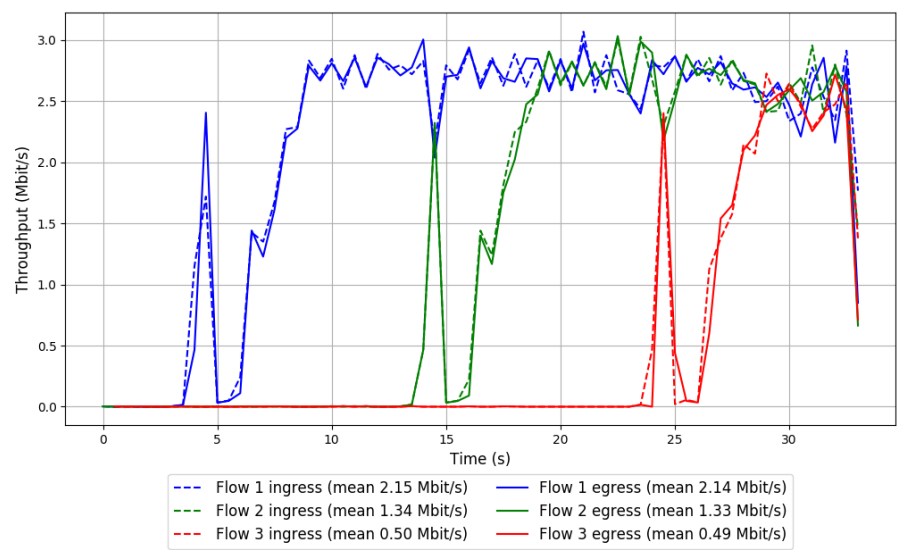
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 86.910 ms

Loss rate: 3.39%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-05 22:23:04

End at: 2017-12-05 22:23:34

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 87.190 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 87.040 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 87.262 ms

Loss rate: 4.07%

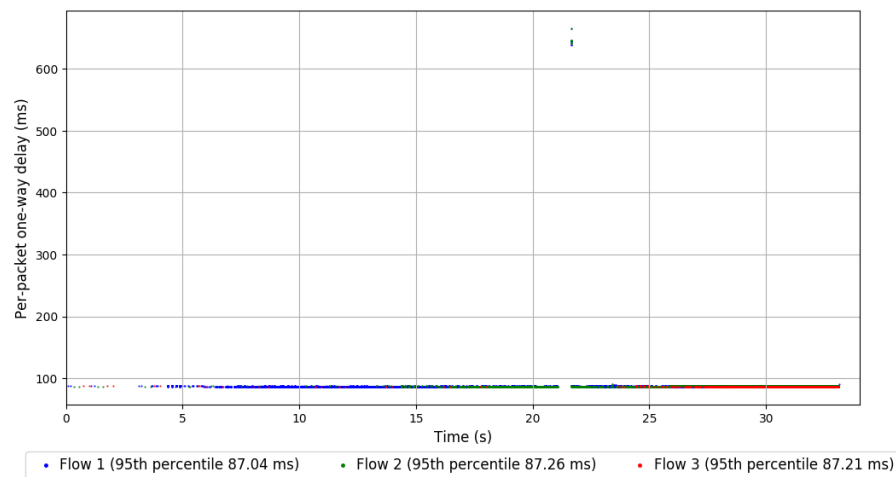
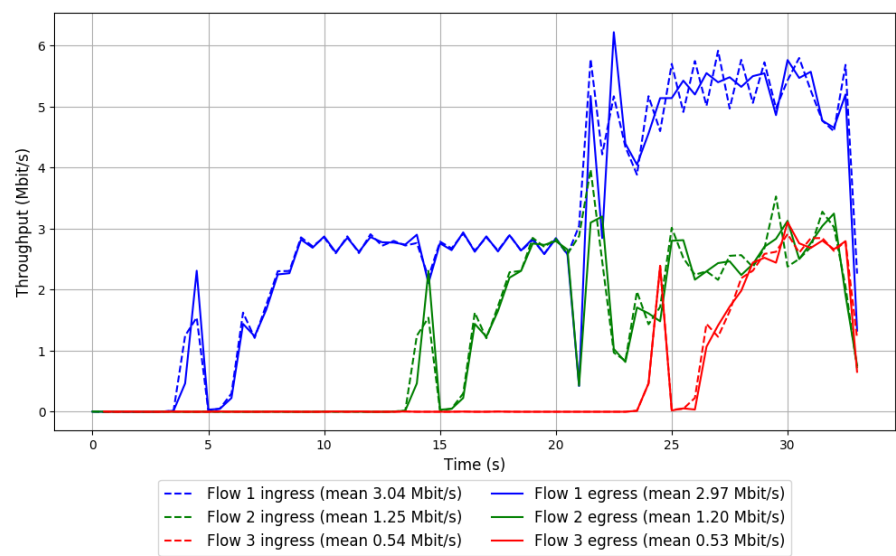
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 87.209 ms

Loss rate: 2.85%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-05 22:36:21

End at: 2017-12-05 22:36:51

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 87.036 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.954 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 87.020 ms

Loss rate: 0.86%

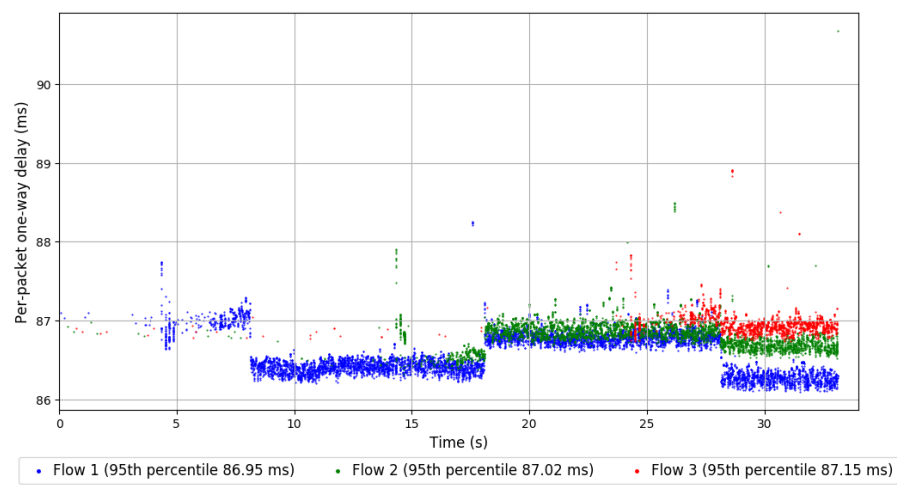
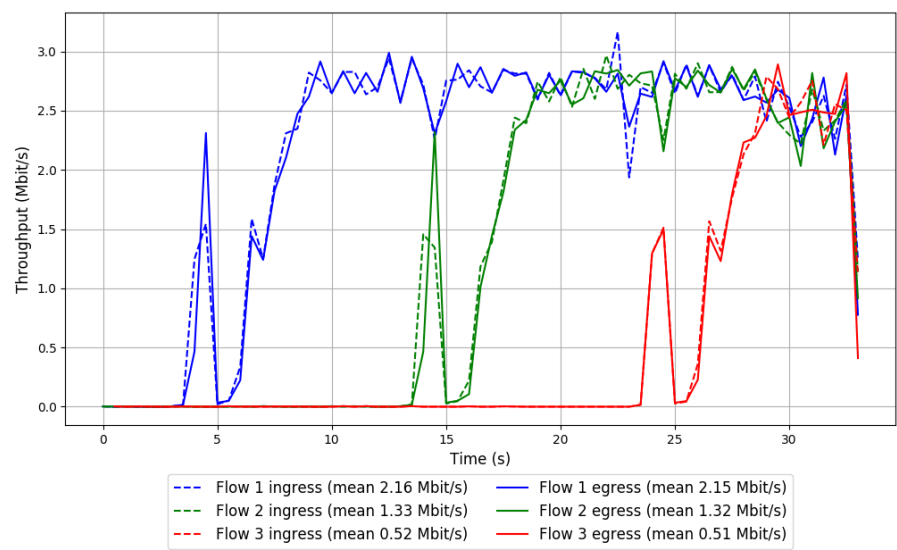
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 87.153 ms

Loss rate: 2.62%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-05 22:49:39

End at: 2017-12-05 22:50:09

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 87.143 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 87.115 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.190 ms

Loss rate: 0.65%

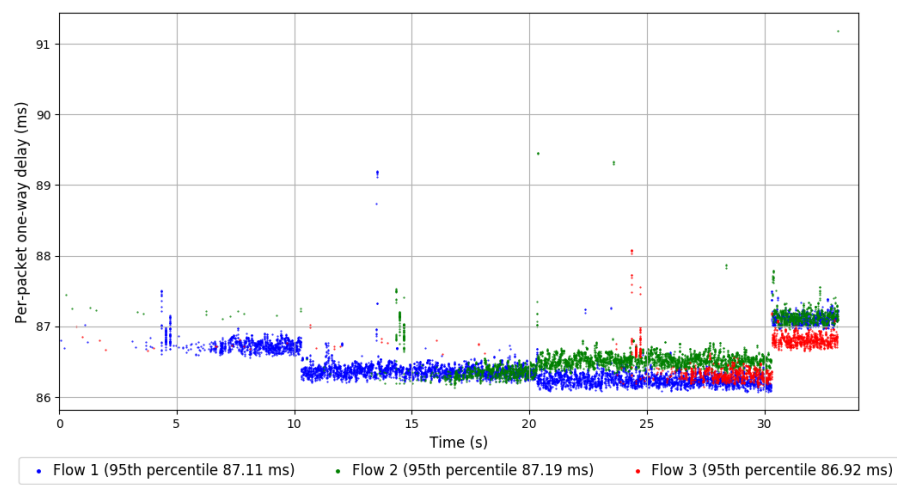
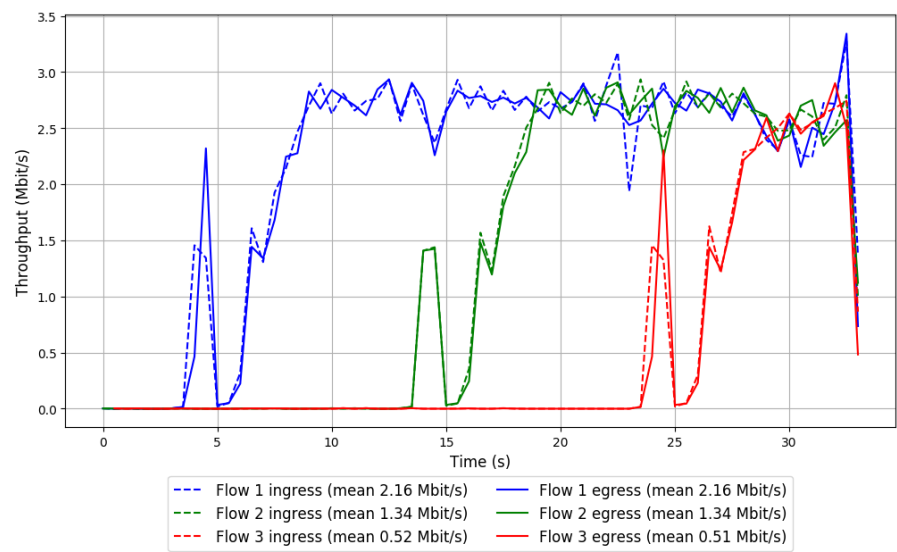
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.920 ms

Loss rate: 2.55%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-05 23:03:01

End at: 2017-12-05 23:03:31

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 86.972 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 86.987 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 86.869 ms

Loss rate: 1.96%

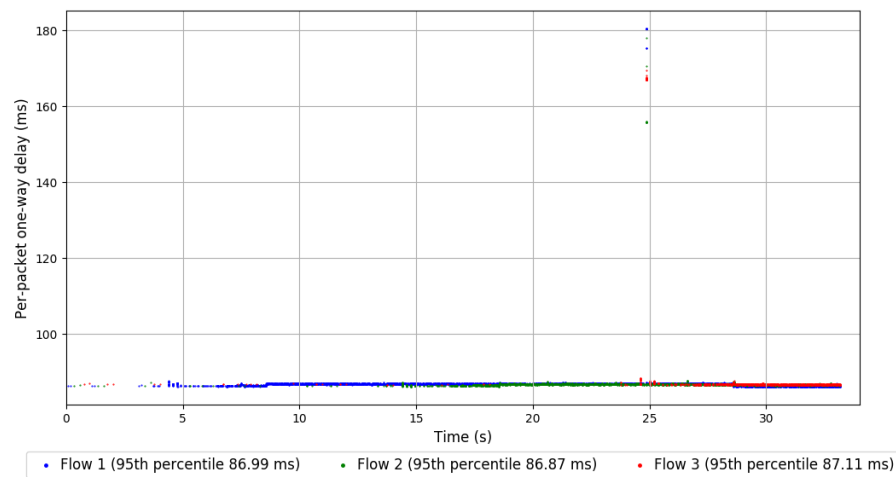
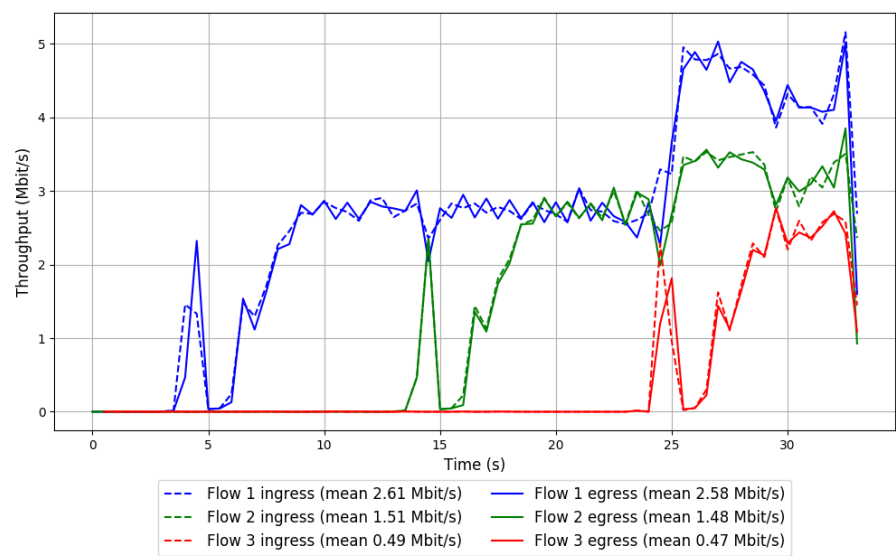
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 87.114 ms

Loss rate: 3.68%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-05 23:16:38

End at: 2017-12-05 23:17:08

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.171 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.923 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.236 ms

Loss rate: 0.69%

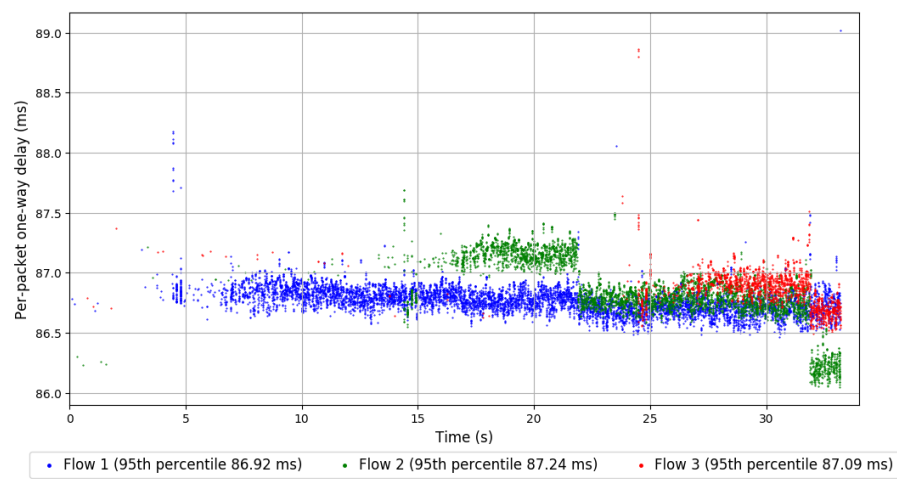
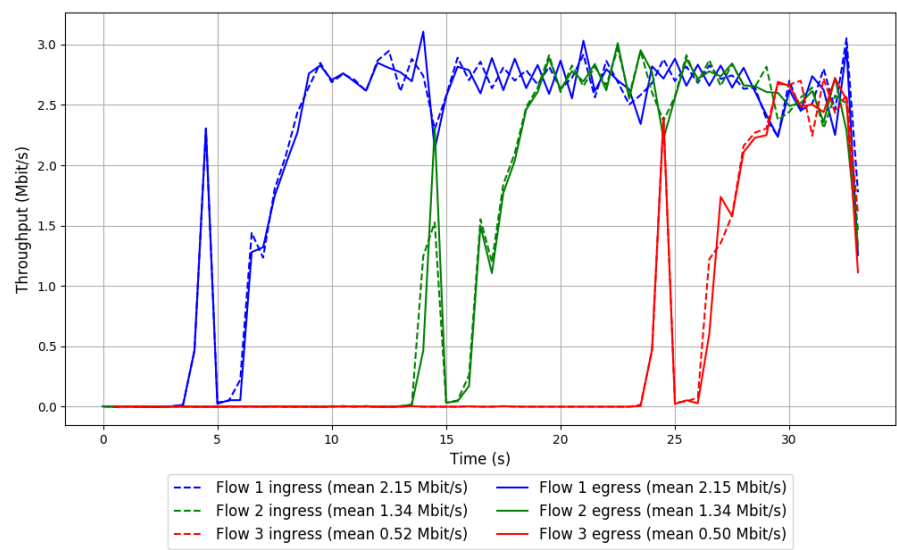
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 87.087 ms

Loss rate: 2.72%

Run 10: Report of WebRTC media — Data Link

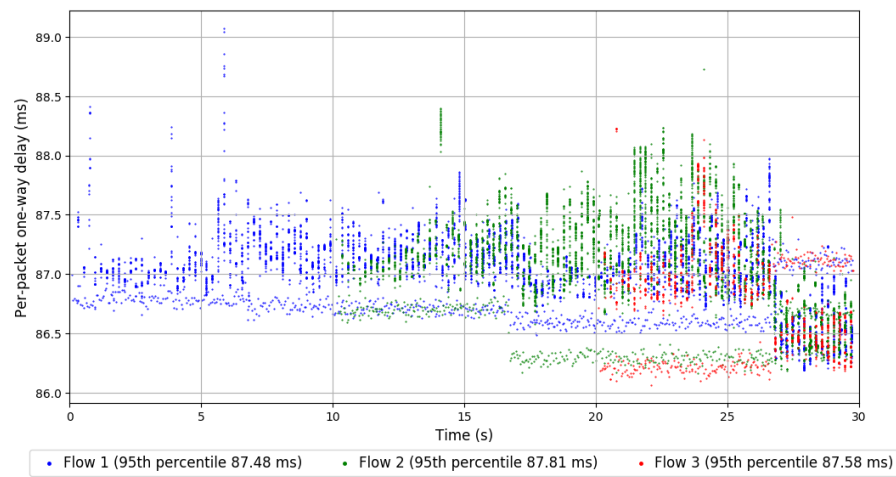
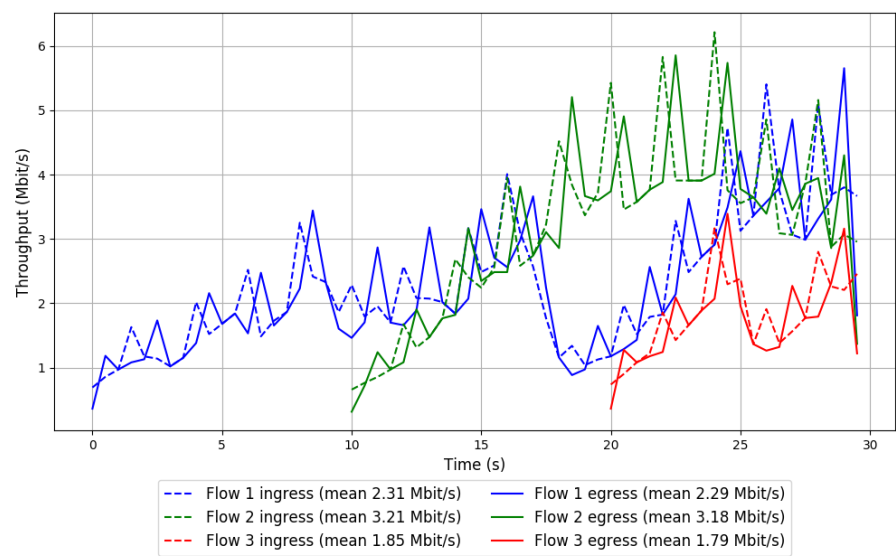


```
Run 1: Statistics of Sprout

Start at: 2017-12-05 21:15:29
End at: 2017-12-05 21:15:59

# Below is generated by plot.py at 2017-12-06 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 87.658 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 87.480 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 87.805 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 87.581 ms
Loss rate: 4.59%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-05 21:29:04

End at: 2017-12-05 21:29:34

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 87.342 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 87.335 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 87.392 ms

Loss rate: 1.39%

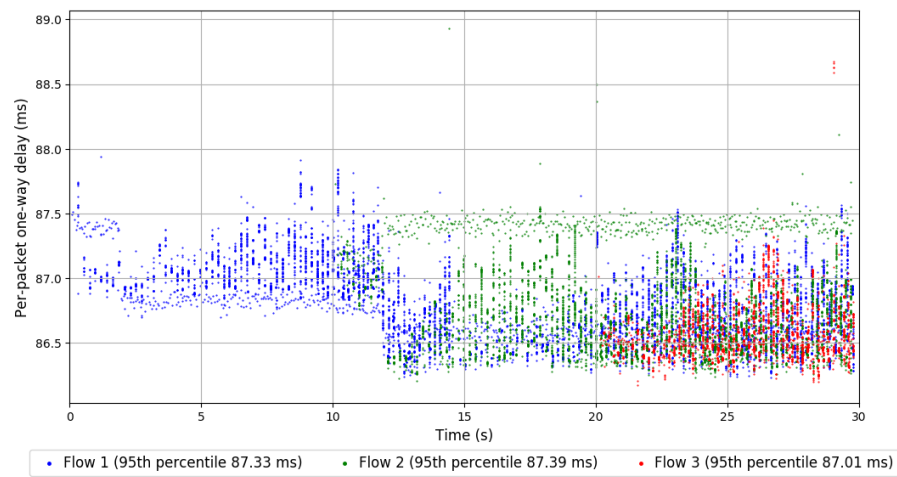
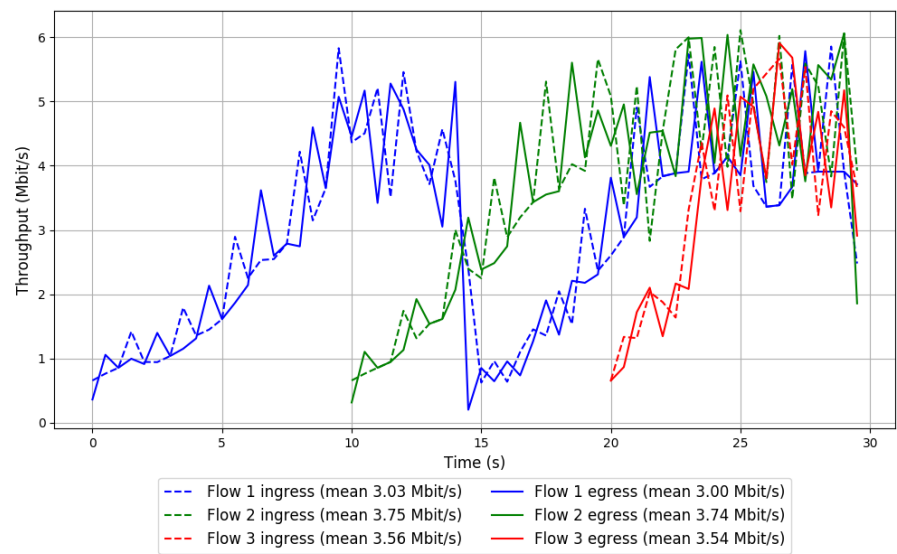
-- Flow 3:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 87.008 ms

Loss rate: 2.71%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-05 21:42:52

End at: 2017-12-05 21:43:22

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 87.500 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 87.514 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 87.512 ms

Loss rate: 1.36%

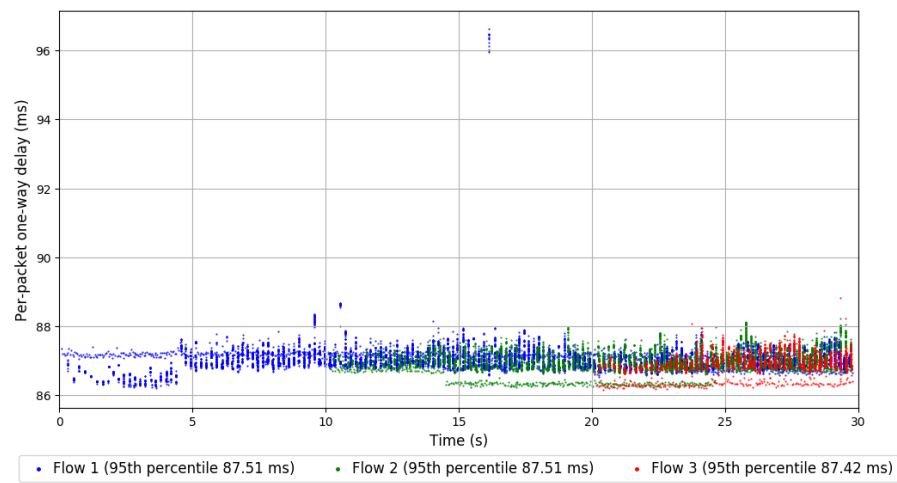
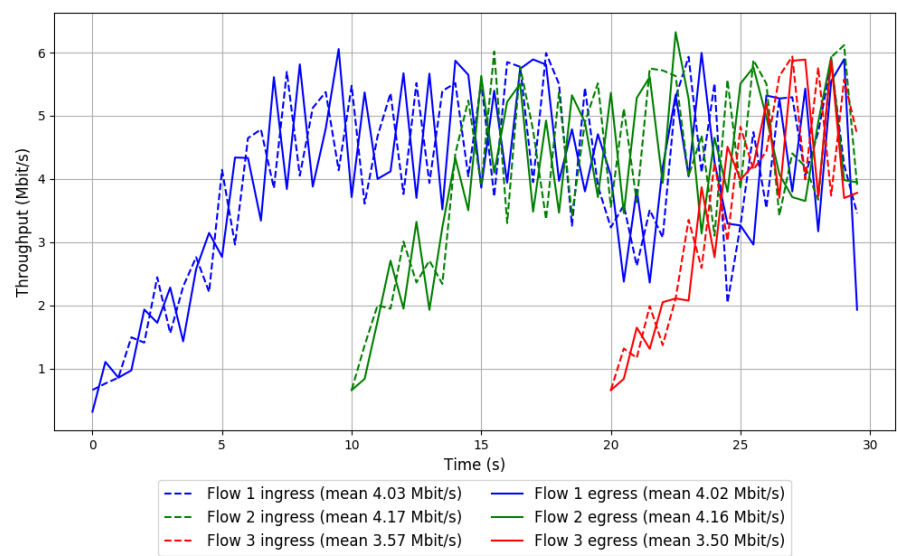
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 87.425 ms

Loss rate: 3.97%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-05 21:56:31

End at: 2017-12-05 21:57:01

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 87.649 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 87.688 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 87.649 ms

Loss rate: 1.95%

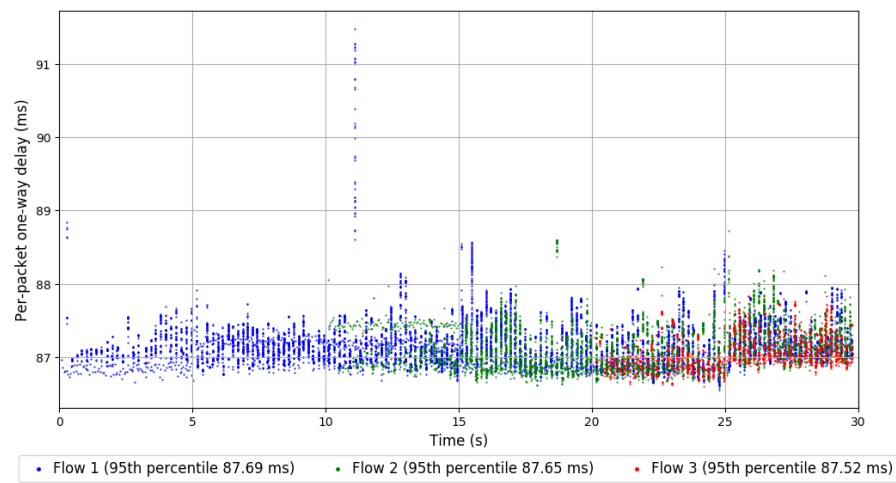
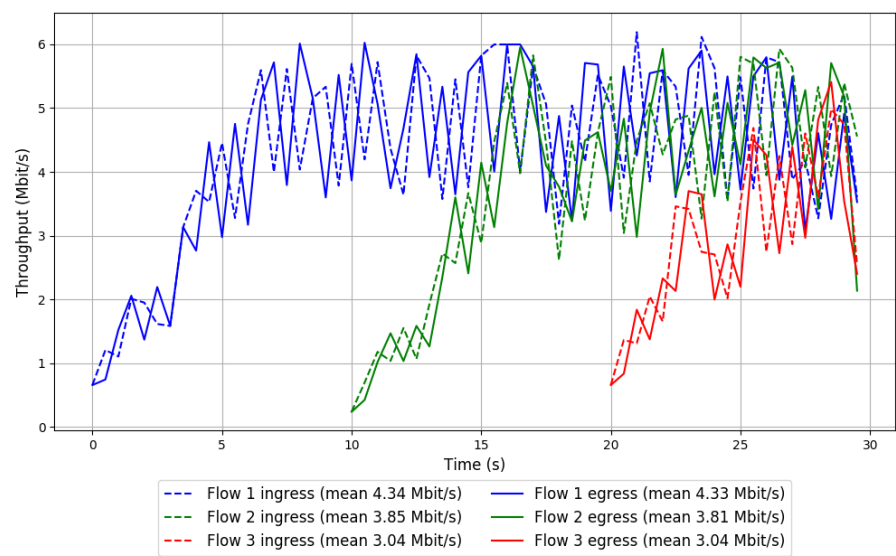
-- Flow 3:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 87.524 ms

Loss rate: 2.24%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-05 22:10:26

End at: 2017-12-05 22:10:56

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 87.682 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 87.651 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 87.701 ms

Loss rate: 1.00%

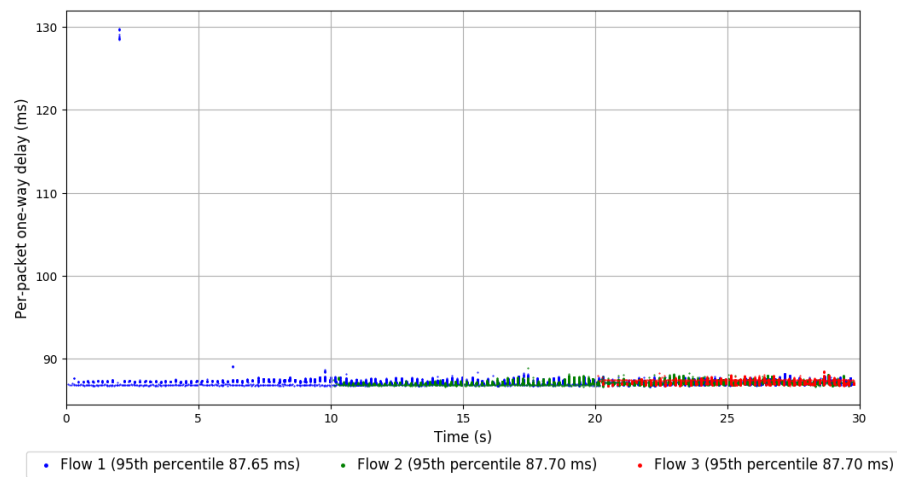
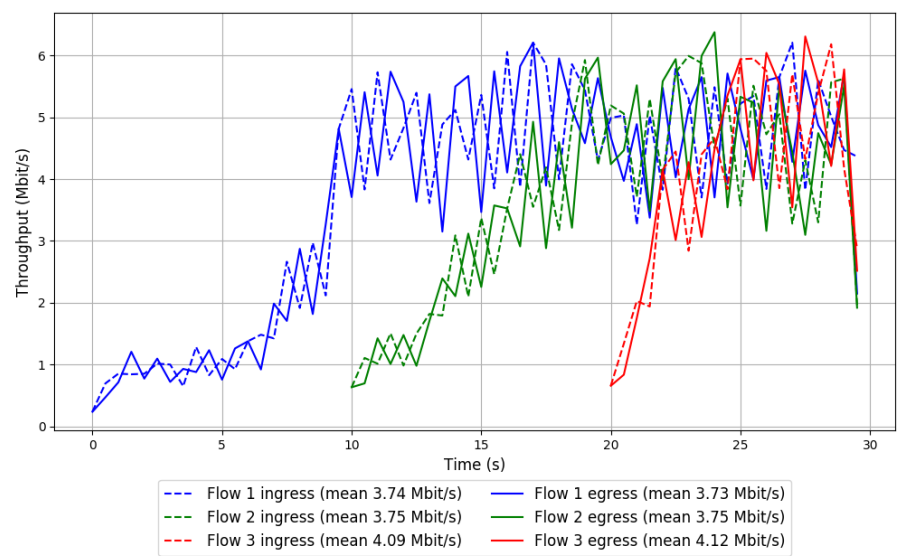
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 87.703 ms

Loss rate: 0.90%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-05 22:23:48

End at: 2017-12-05 22:24:18

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 87.764 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 87.780 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 87.702 ms

Loss rate: 1.38%

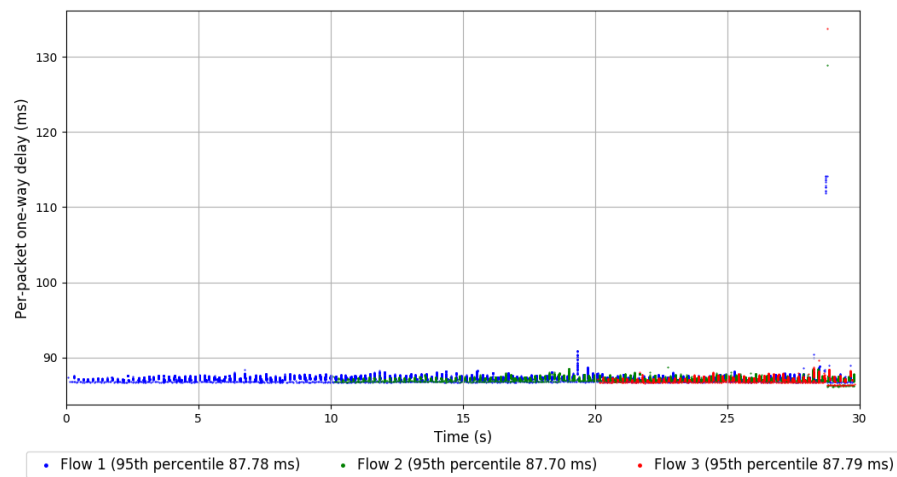
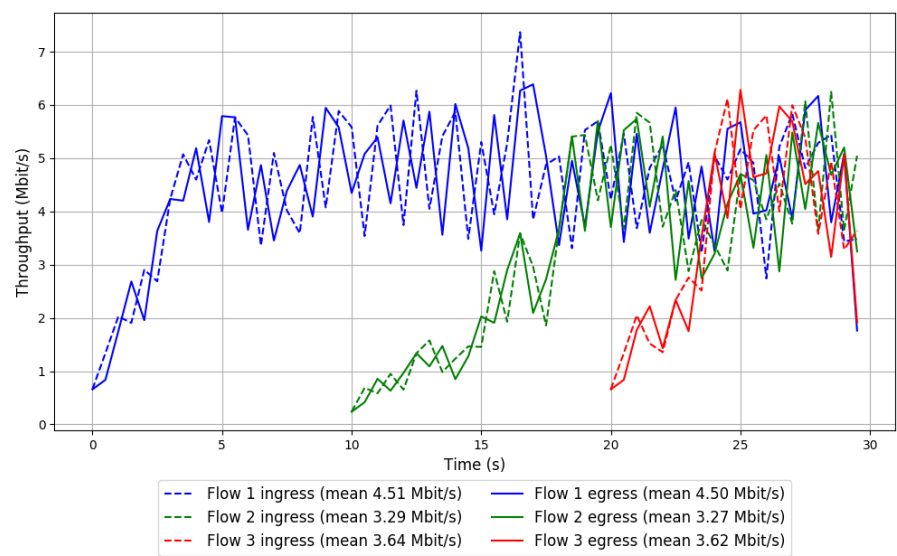
-- Flow 3:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 87.788 ms

Loss rate: 2.40%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-05 22:37:05

End at: 2017-12-05 22:37:35

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 87.605 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 87.570 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 87.655 ms

Loss rate: 1.01%

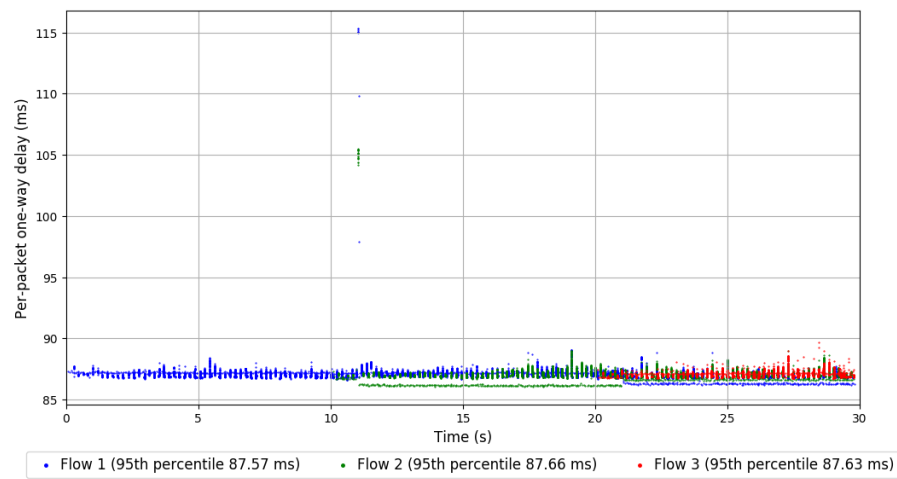
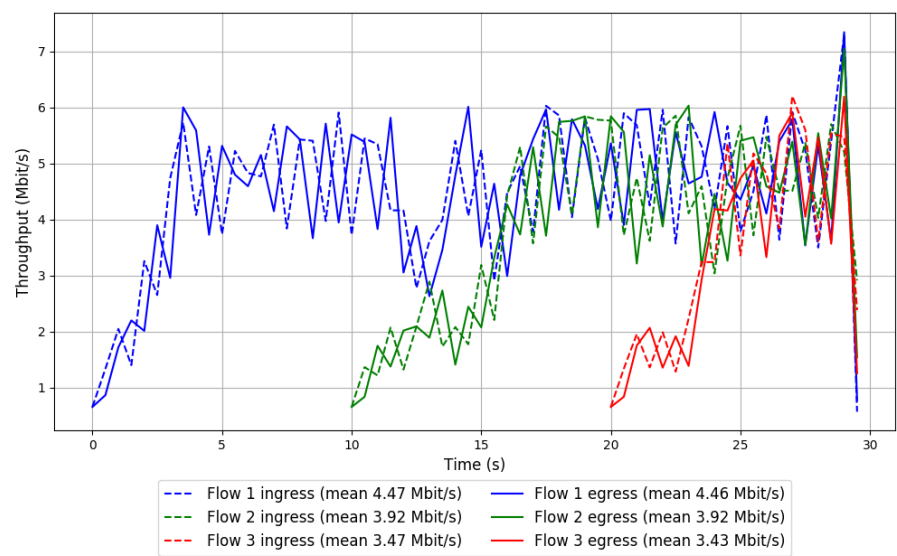
-- Flow 3:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 87.626 ms

Loss rate: 3.47%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-05 22:50:23

End at: 2017-12-05 22:50:53

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 87.646 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 87.638 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 1.66%

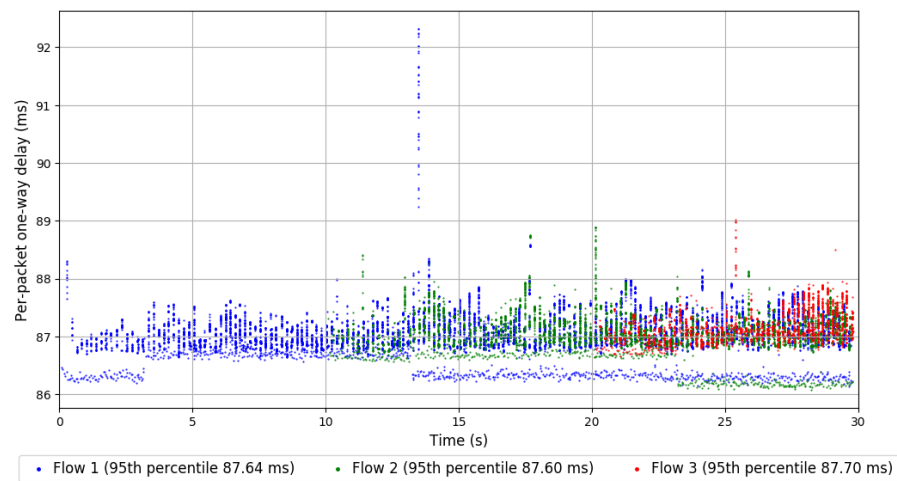
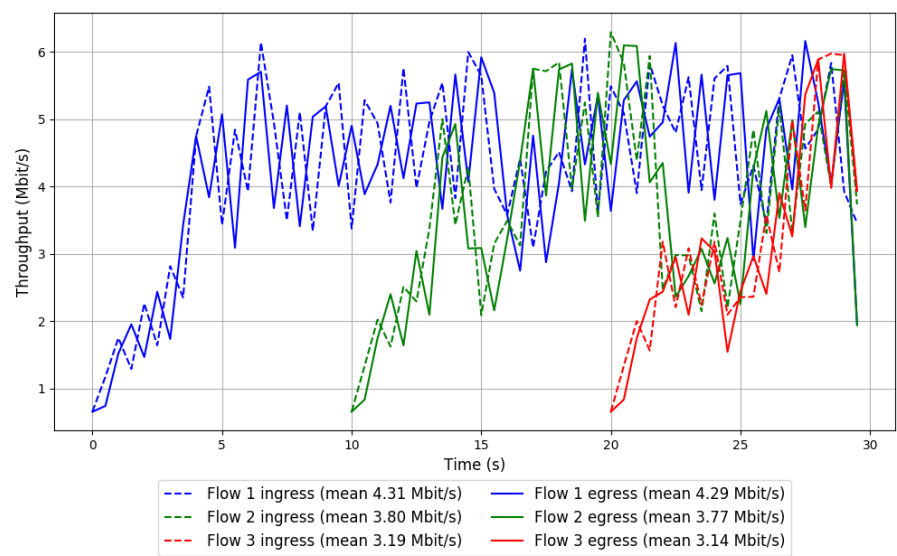
-- Flow 3:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 87.700 ms

Loss rate: 3.04%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-05 23:03:45

End at: 2017-12-05 23:04:15

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 87.492 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 87.516 ms

Loss rate: 1.13%

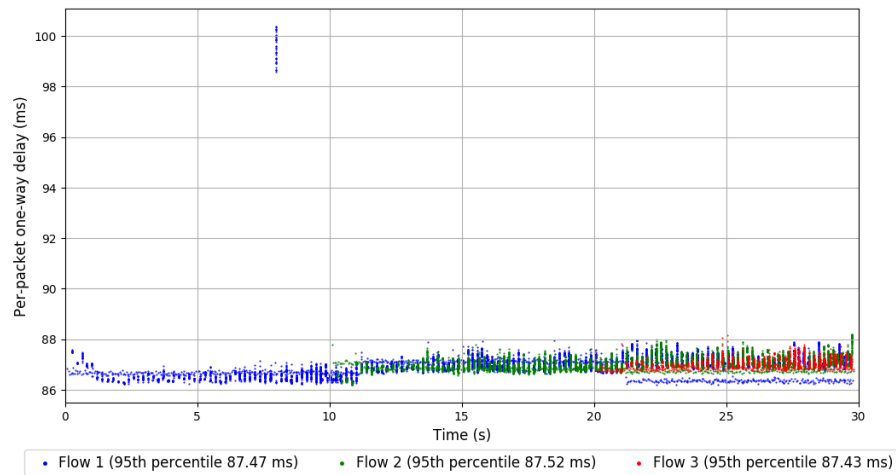
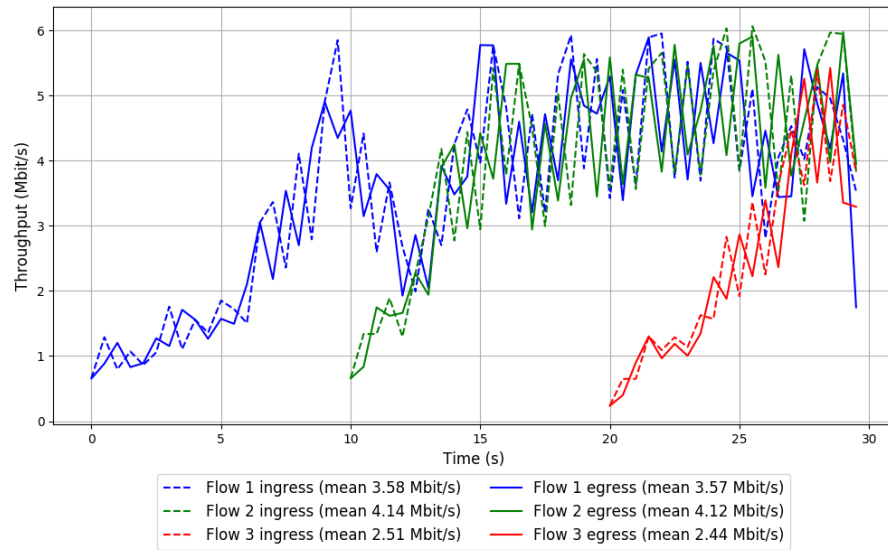
-- Flow 3:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 87.434 ms

Loss rate: 4.13%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-05 23:17:22

End at: 2017-12-05 23:17:52

Below is generated by plot.py at 2017-12-06 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 87.539 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 87.476 ms

Loss rate: 0.45%

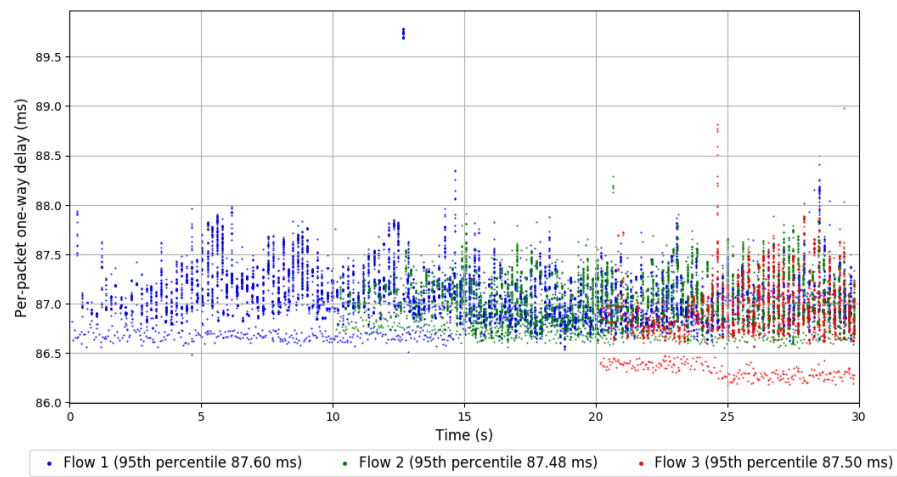
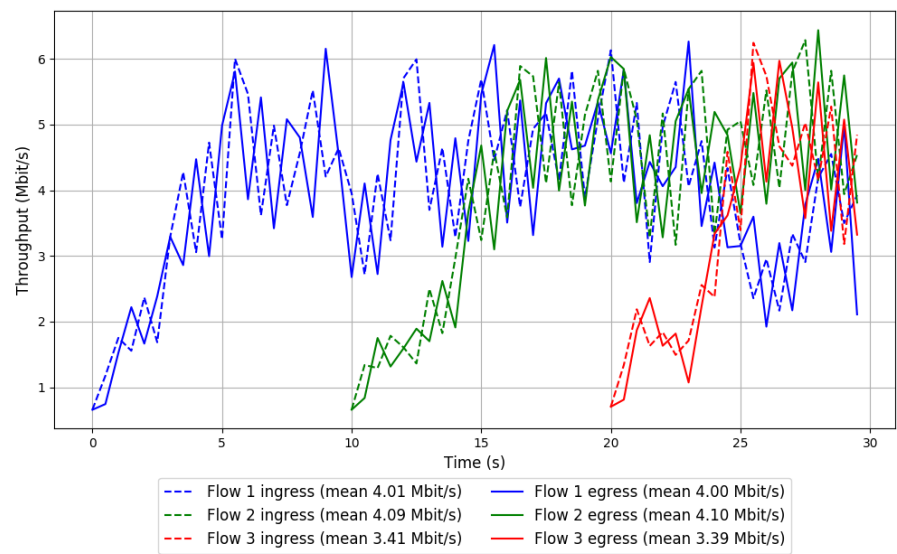
-- Flow 3:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 87.505 ms

Loss rate: 2.26%

Run 10: Report of Sprout — Data Link

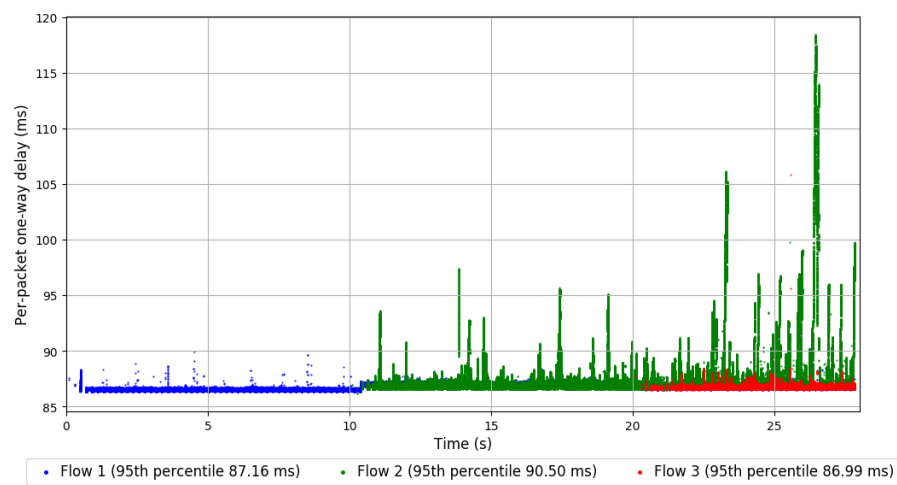
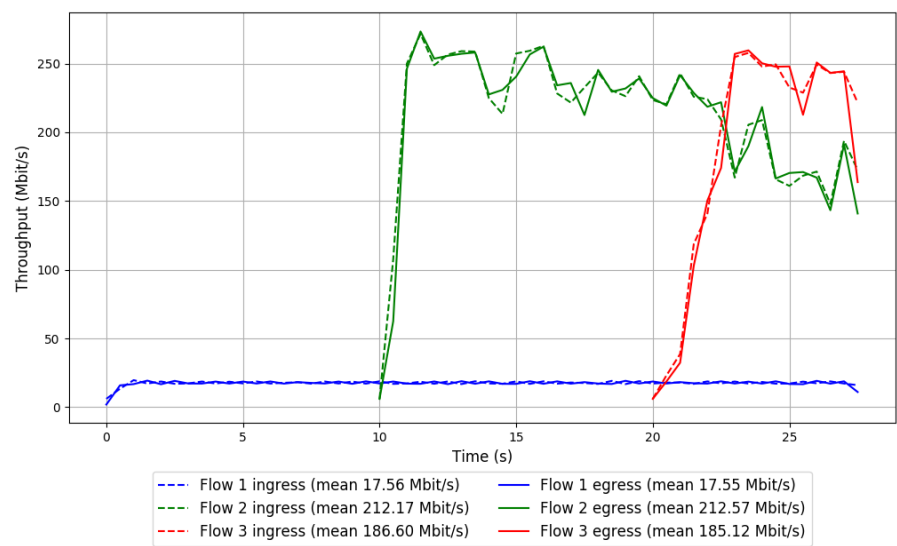


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 21:12:34
End at: 2017-12-05 21:13:04

# Below is generated by plot.py at 2017-12-06 02:03:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 89.194 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 17.55 Mbit/s
95th percentile per-packet one-way delay: 87.159 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 212.57 Mbit/s
95th percentile per-packet one-way delay: 90.497 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 185.12 Mbit/s
95th percentile per-packet one-way delay: 86.994 ms
Loss rate: 3.36%
```


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

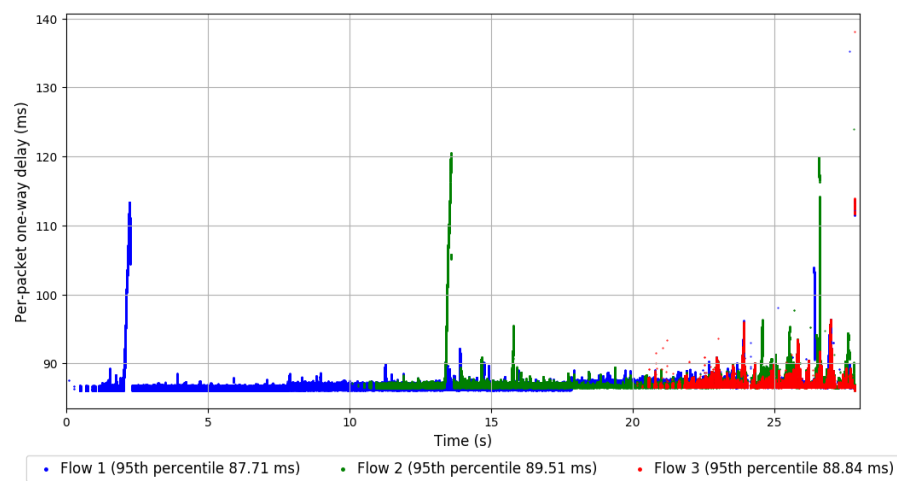
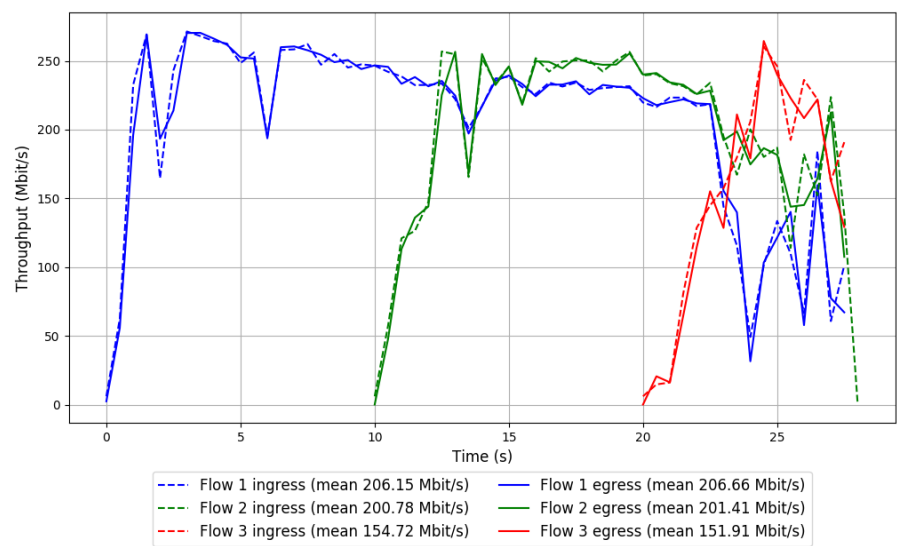


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 21:25:56
End at: 2017-12-05 21:26:26

# Below is generated by plot.py at 2017-12-06 02:09:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.57 Mbit/s
95th percentile per-packet one-way delay: 88.467 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 206.66 Mbit/s
95th percentile per-packet one-way delay: 87.713 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 201.41 Mbit/s
95th percentile per-packet one-way delay: 89.512 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 151.91 Mbit/s
95th percentile per-packet one-way delay: 88.840 ms
Loss rate: 4.29%
```

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

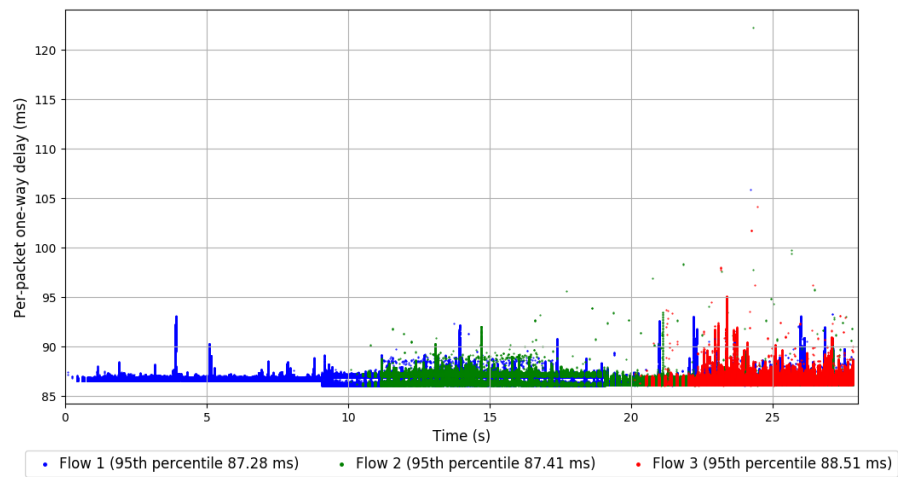
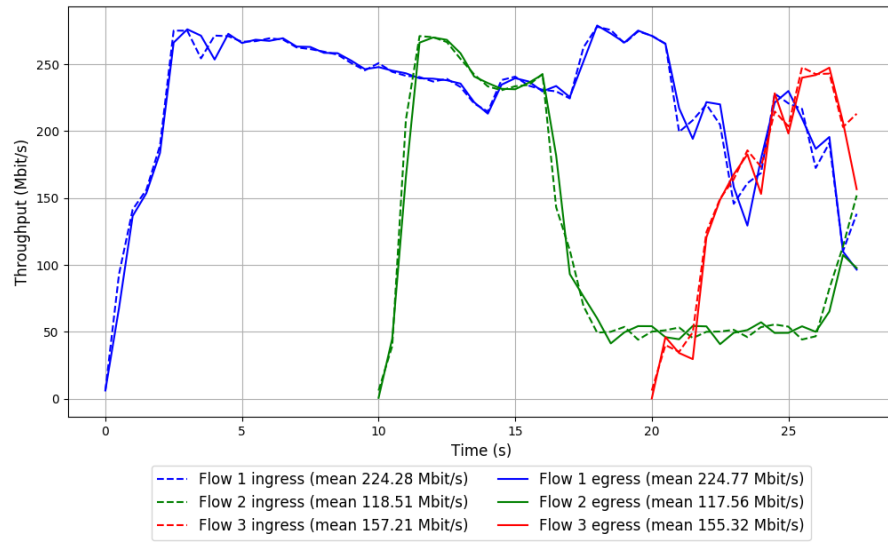


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 21:39:45
End at: 2017-12-05 21:40:15

# Below is generated by plot.py at 2017-12-06 02:09:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.20 Mbit/s
95th percentile per-packet one-way delay: 87.505 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 224.77 Mbit/s
95th percentile per-packet one-way delay: 87.280 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 117.56 Mbit/s
95th percentile per-packet one-way delay: 87.411 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 155.32 Mbit/s
95th percentile per-packet one-way delay: 88.509 ms
Loss rate: 3.75%
```

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

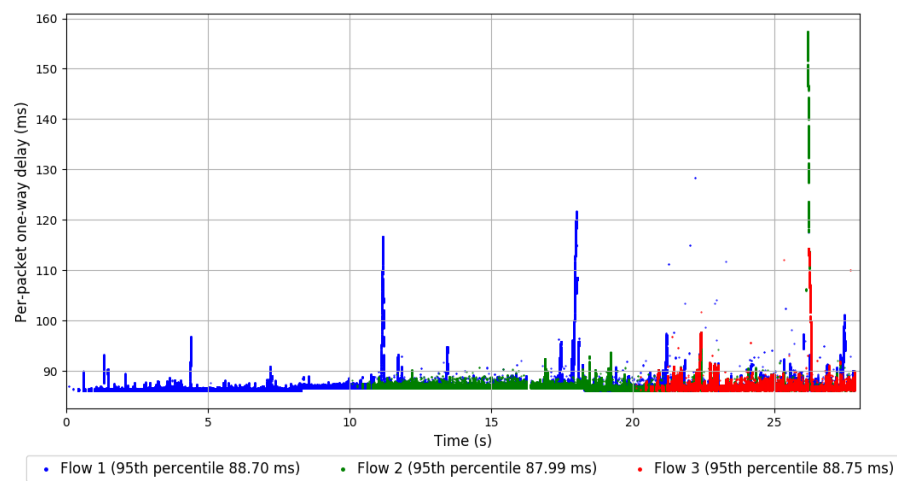
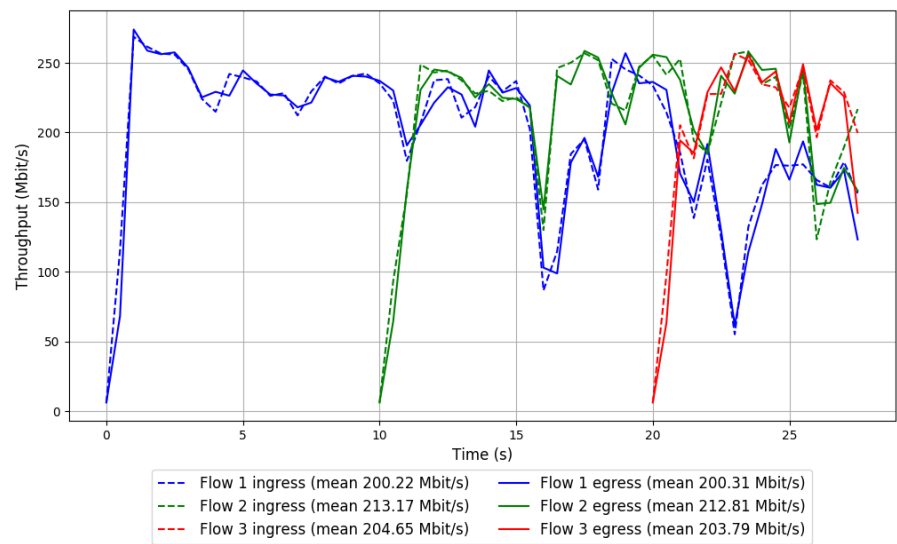


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 21:53:16
End at: 2017-12-05 21:53:46

# Below is generated by plot.py at 2017-12-06 02:09:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.12 Mbit/s
95th percentile per-packet one-way delay: 88.441 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 200.31 Mbit/s
95th percentile per-packet one-way delay: 88.705 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 212.81 Mbit/s
95th percentile per-packet one-way delay: 87.992 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 203.79 Mbit/s
95th percentile per-packet one-way delay: 88.751 ms
Loss rate: 2.98%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 22:07:18

End at: 2017-12-05 22:07:48

Below is generated by plot.py at 2017-12-06 02:09:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.56 Mbit/s

95th percentile per-packet one-way delay: 89.741 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 199.86 Mbit/s

95th percentile per-packet one-way delay: 90.075 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 184.51 Mbit/s

95th percentile per-packet one-way delay: 89.146 ms

Loss rate: 1.46%

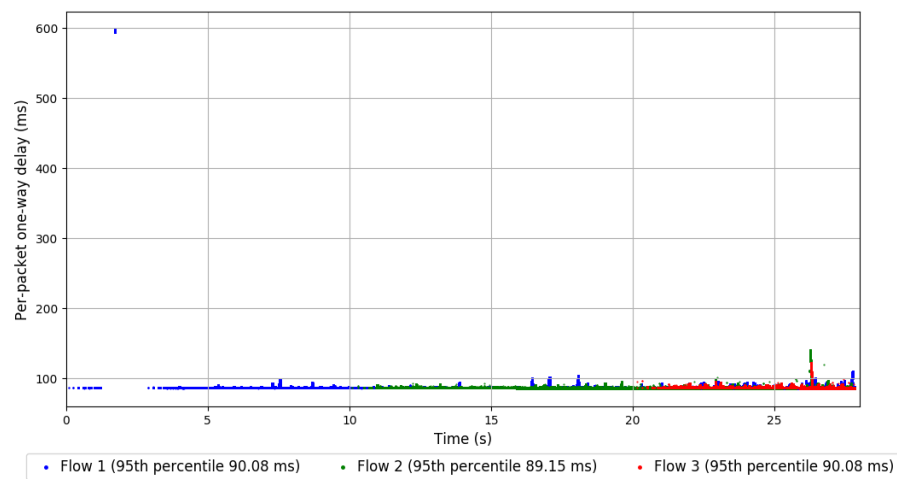
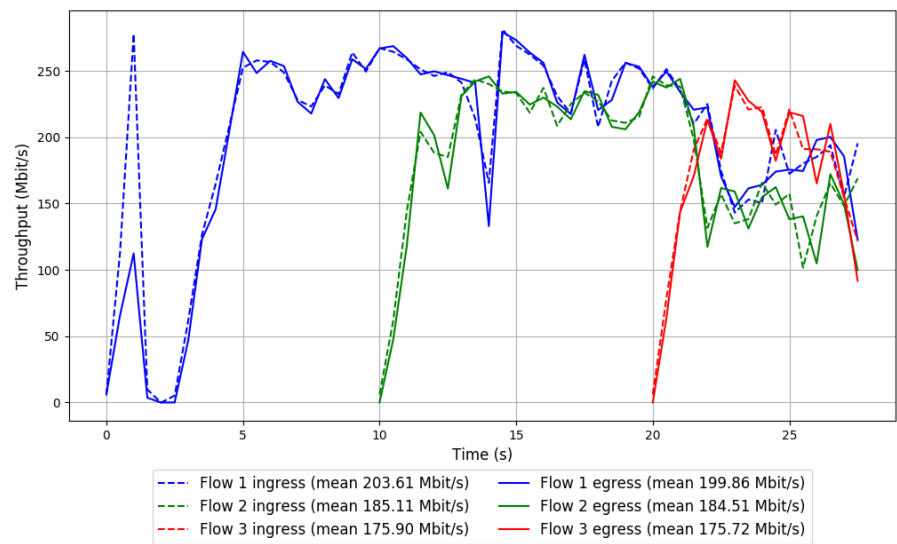
-- Flow 3:

Average throughput: 175.72 Mbit/s

95th percentile per-packet one-way delay: 90.084 ms

Loss rate: 1.95%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-05 22:20:39

End at: 2017-12-05 22:21:09

Below is generated by plot.py at 2017-12-06 02:10:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.29 Mbit/s

95th percentile per-packet one-way delay: 88.527 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 229.20 Mbit/s

95th percentile per-packet one-way delay: 87.757 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 205.59 Mbit/s

95th percentile per-packet one-way delay: 91.299 ms

Loss rate: 0.92%

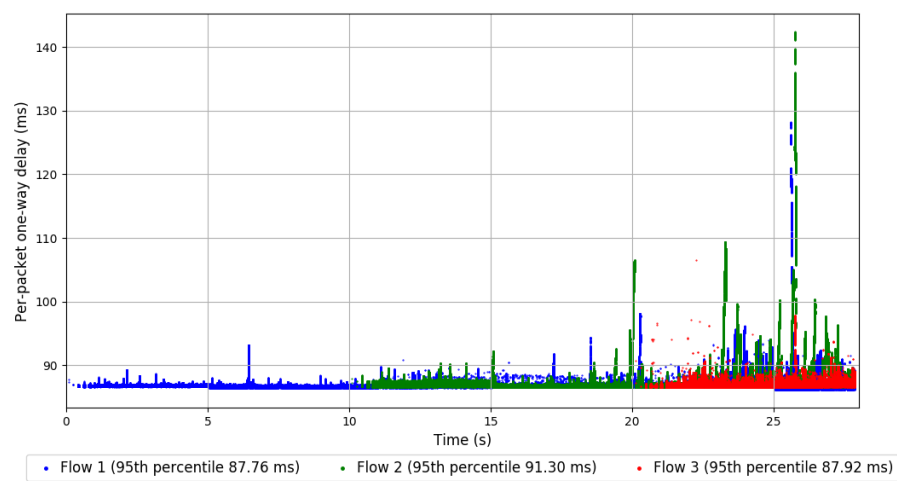
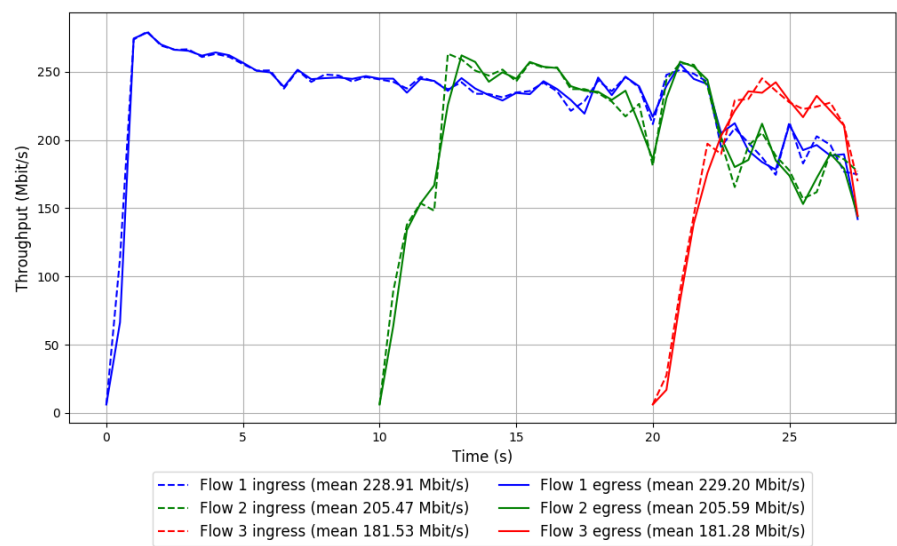
-- Flow 3:

Average throughput: 181.28 Mbit/s

95th percentile per-packet one-way delay: 87.923 ms

Loss rate: 2.32%

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

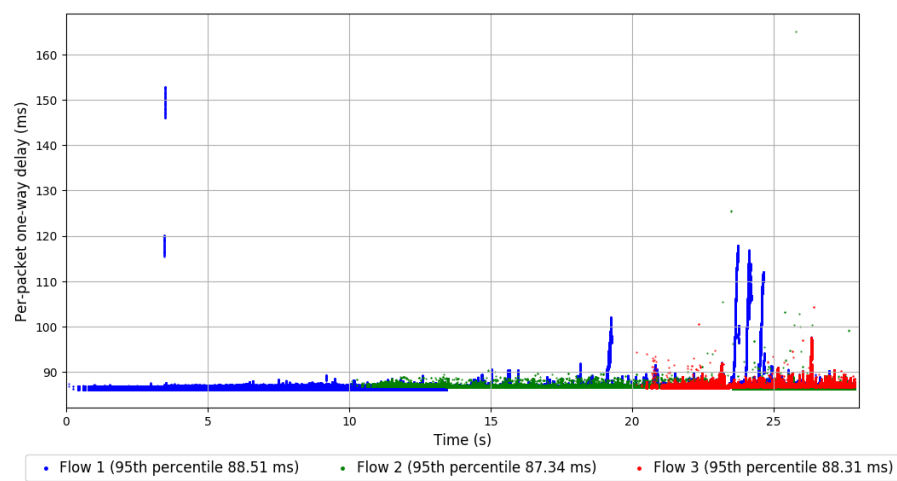
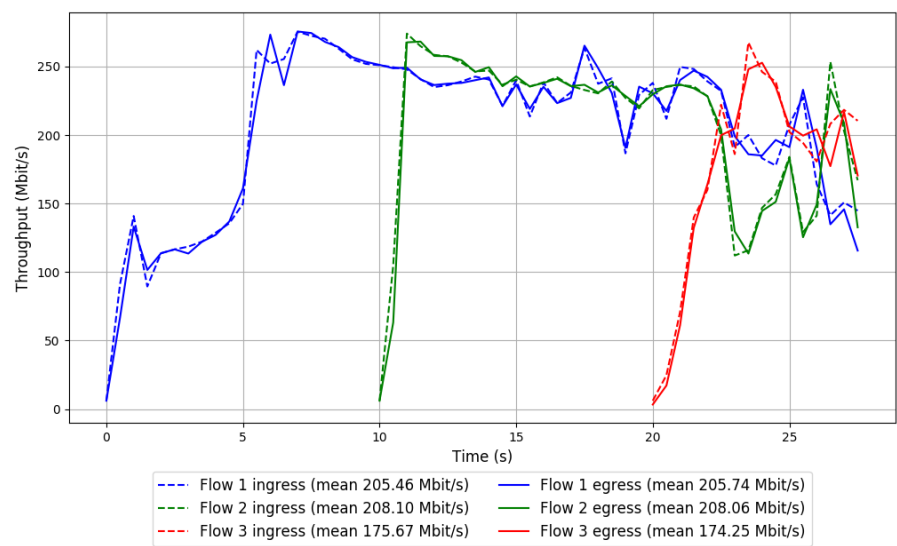


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-05 22:34:01
End at: 2017-12-05 22:34:31

# Below is generated by plot.py at 2017-12-06 02:14:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.28 Mbit/s
95th percentile per-packet one-way delay: 88.004 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 205.74 Mbit/s
95th percentile per-packet one-way delay: 88.510 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 208.06 Mbit/s
95th percentile per-packet one-way delay: 87.337 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 174.25 Mbit/s
95th percentile per-packet one-way delay: 88.309 ms
Loss rate: 3.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-05 22:47:21

End at: 2017-12-05 22:47:51

Below is generated by plot.py at 2017-12-06 02:15:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.72 Mbit/s

95th percentile per-packet one-way delay: 88.833 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 194.46 Mbit/s

95th percentile per-packet one-way delay: 87.600 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 204.47 Mbit/s

95th percentile per-packet one-way delay: 90.967 ms

Loss rate: 1.09%

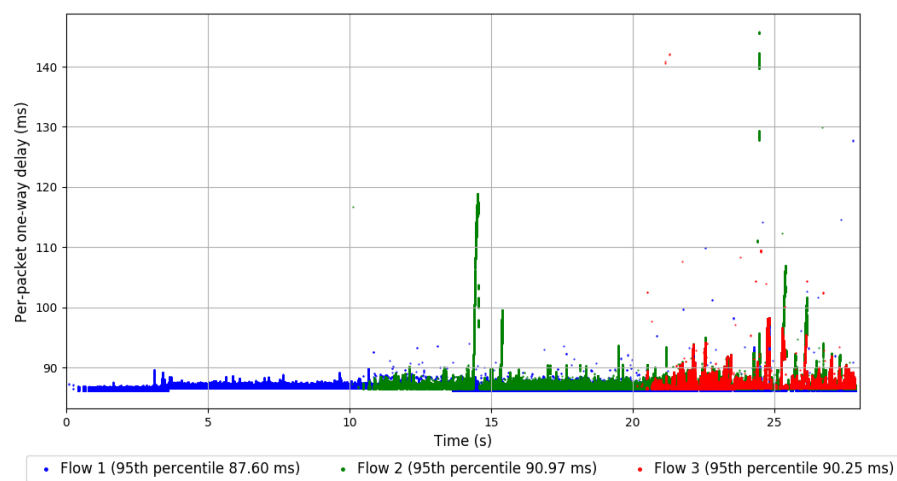
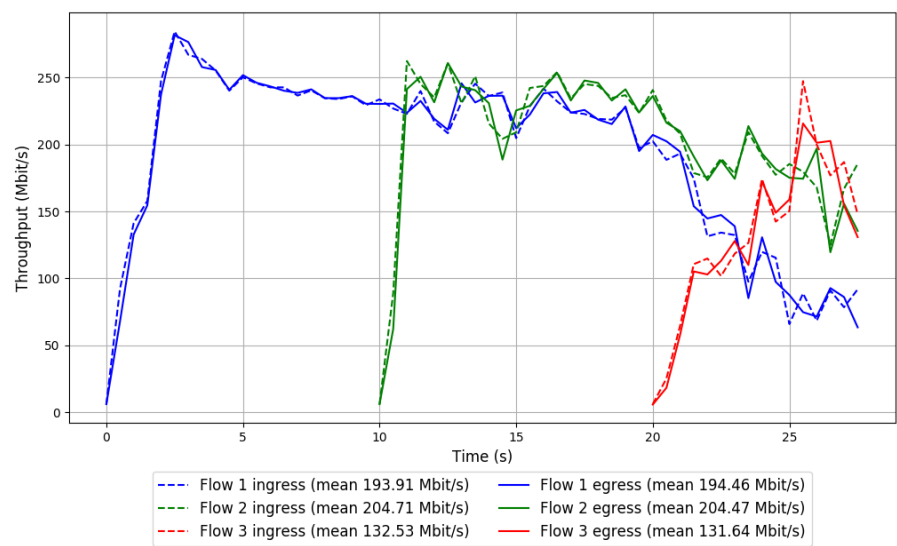
-- Flow 3:

Average throughput: 131.64 Mbit/s

95th percentile per-packet one-way delay: 90.255 ms

Loss rate: 3.22%

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

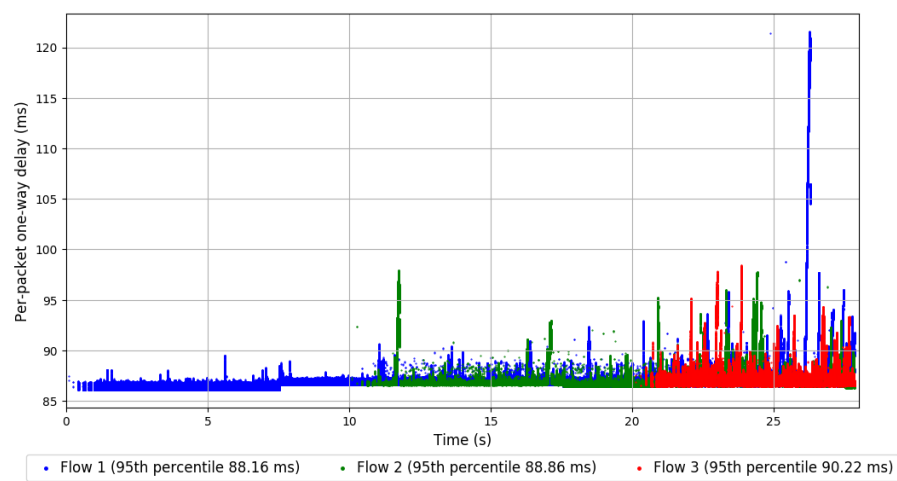
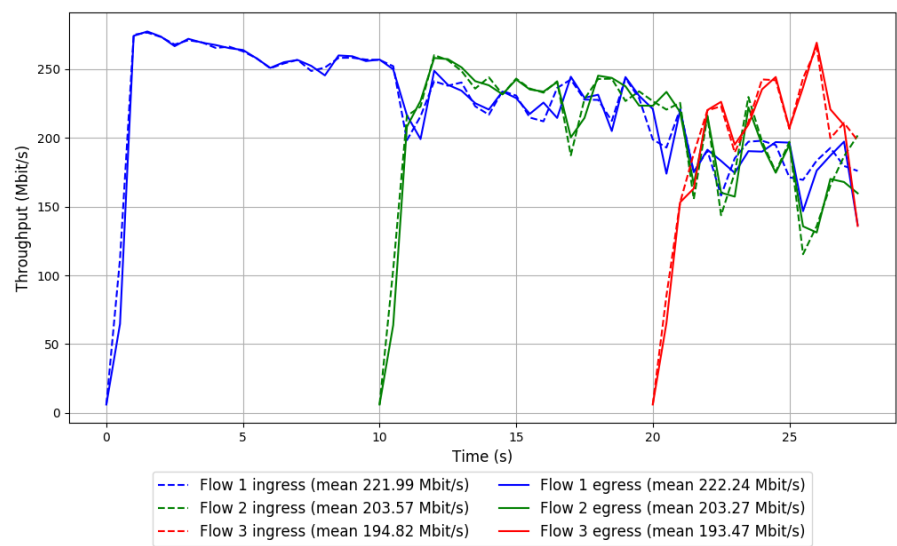


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-05 23:00:37
End at: 2017-12-05 23:01:07

# Below is generated by plot.py at 2017-12-06 02:16:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 406.09 Mbit/s
95th percentile per-packet one-way delay: 88.730 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 222.24 Mbit/s
95th percentile per-packet one-way delay: 88.162 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 203.27 Mbit/s
95th percentile per-packet one-way delay: 88.860 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 193.47 Mbit/s
95th percentile per-packet one-way delay: 90.225 ms
Loss rate: 2.85%
```


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

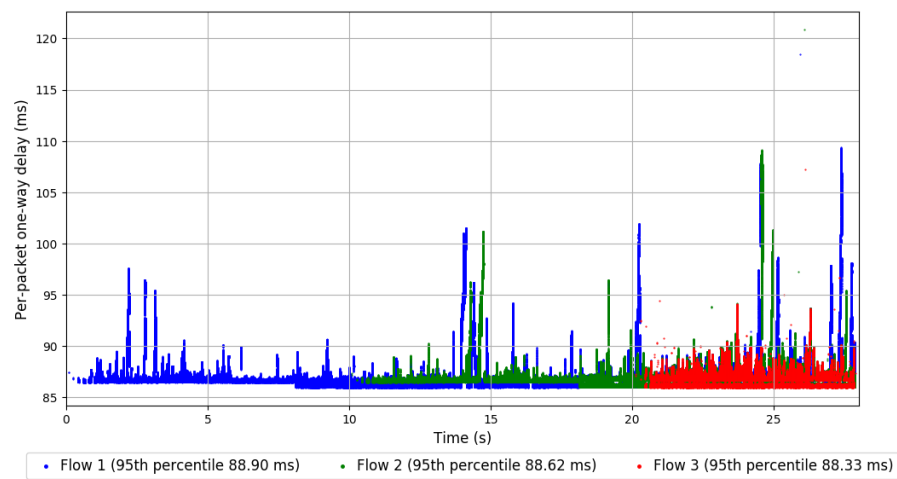
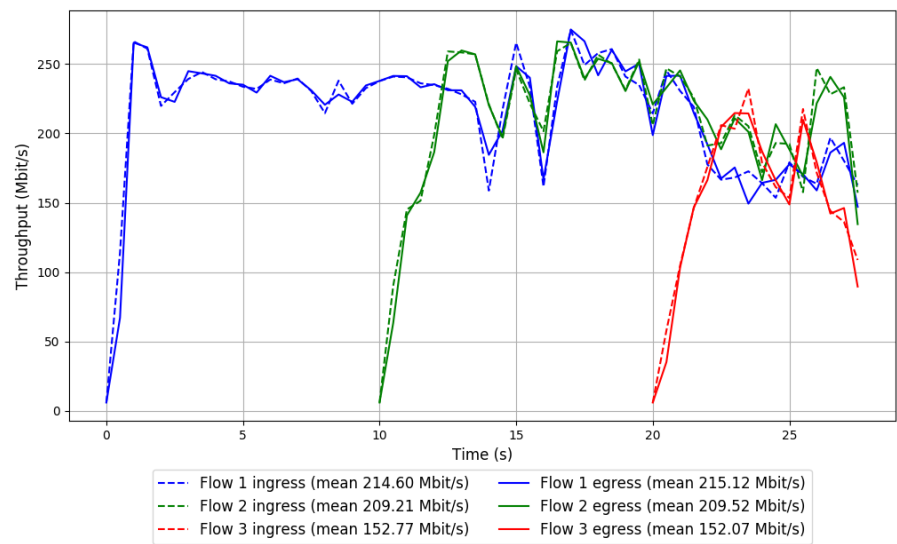


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-05 23:14:16
End at: 2017-12-05 23:14:46

# Below is generated by plot.py at 2017-12-06 02:20:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.60 Mbit/s
95th percentile per-packet one-way delay: 88.677 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 215.12 Mbit/s
95th percentile per-packet one-way delay: 88.901 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 209.52 Mbit/s
95th percentile per-packet one-way delay: 88.622 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 152.07 Mbit/s
95th percentile per-packet one-way delay: 88.331 ms
Loss rate: 1.83%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 21:17:57

End at: 2017-12-05 21:18:27

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.26 Mbit/s

95th percentile per-packet one-way delay: 88.337 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 88.363 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 24.55 Mbit/s

95th percentile per-packet one-way delay: 88.532 ms

Loss rate: 1.17%

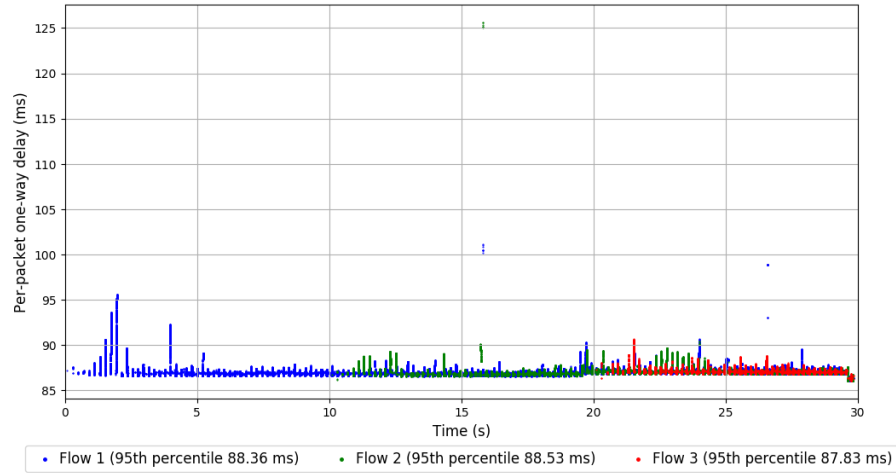
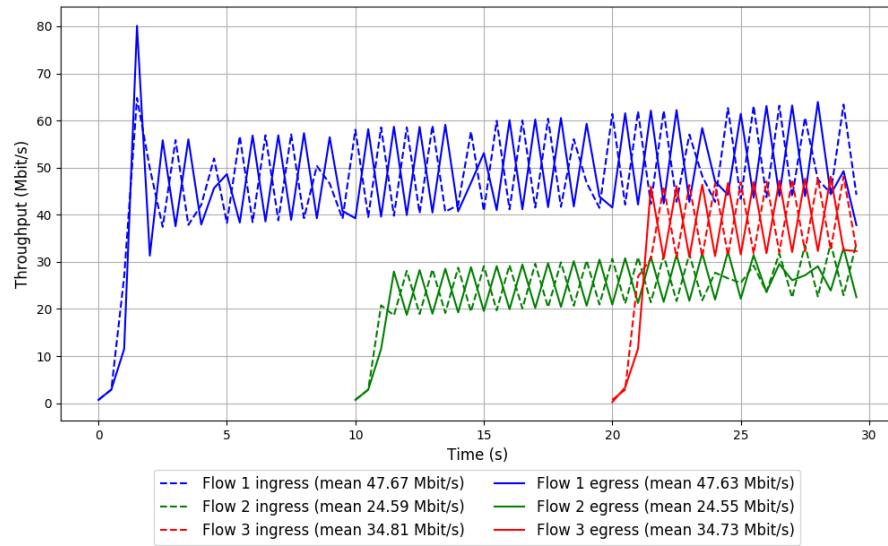
-- Flow 3:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 87.830 ms

Loss rate: 2.35%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 21:31:35

End at: 2017-12-05 21:32:05

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.45 Mbit/s

95th percentile per-packet one-way delay: 93.580 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 88.099 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 71.15 Mbit/s

95th percentile per-packet one-way delay: 94.083 ms

Loss rate: 0.27%

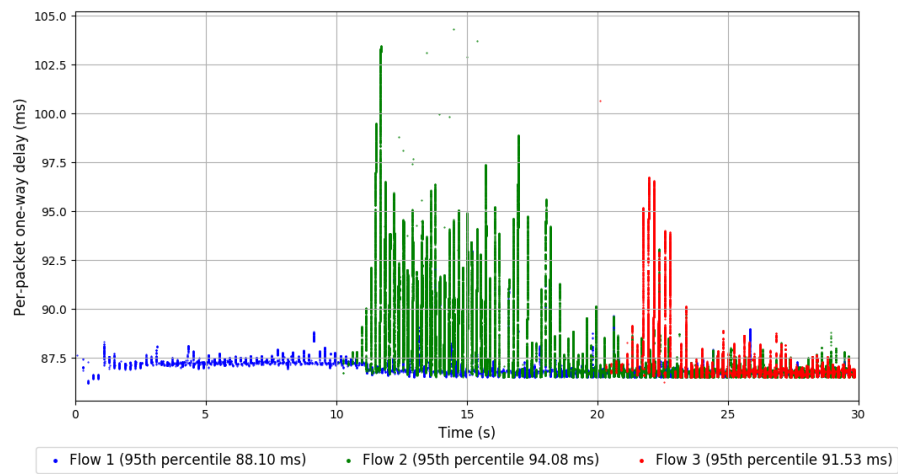
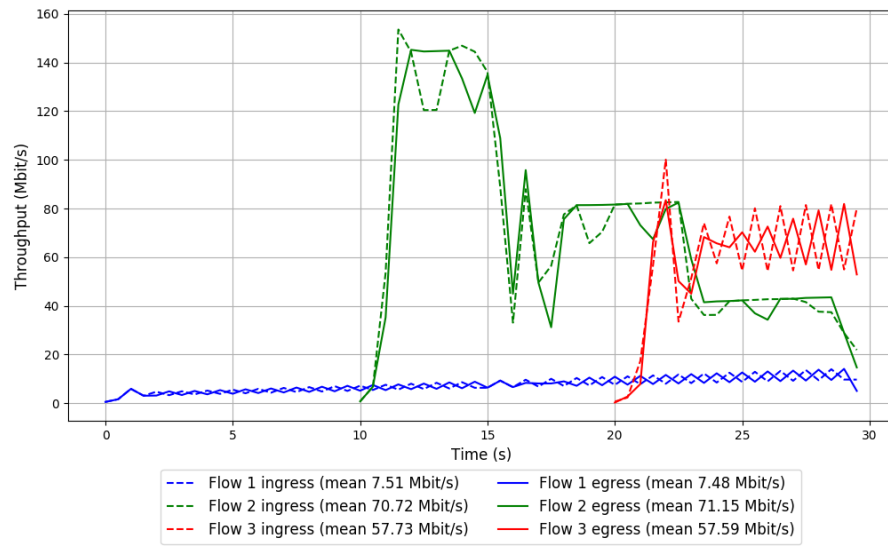
-- Flow 3:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 91.532 ms

Loss rate: 2.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 21:45:27

End at: 2017-12-05 21:45:57

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 93.772 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 20.28 Mbit/s

95th percentile per-packet one-way delay: 90.112 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 91.806 ms

Loss rate: 0.96%

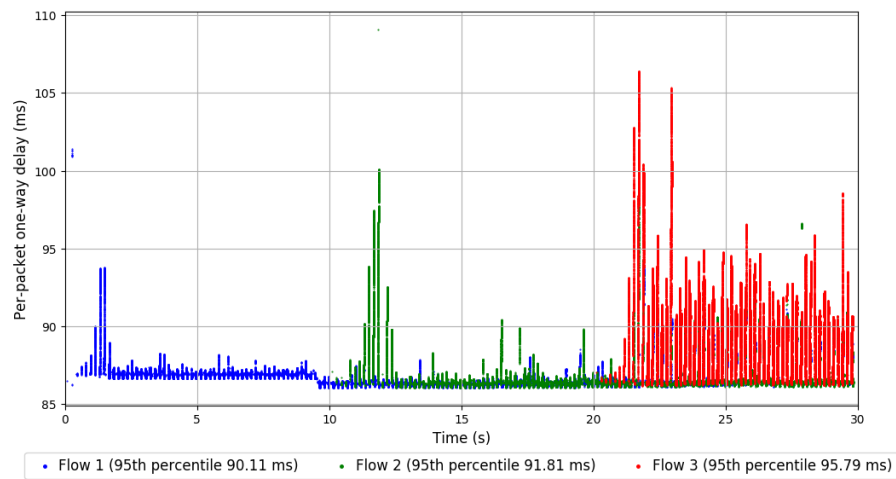
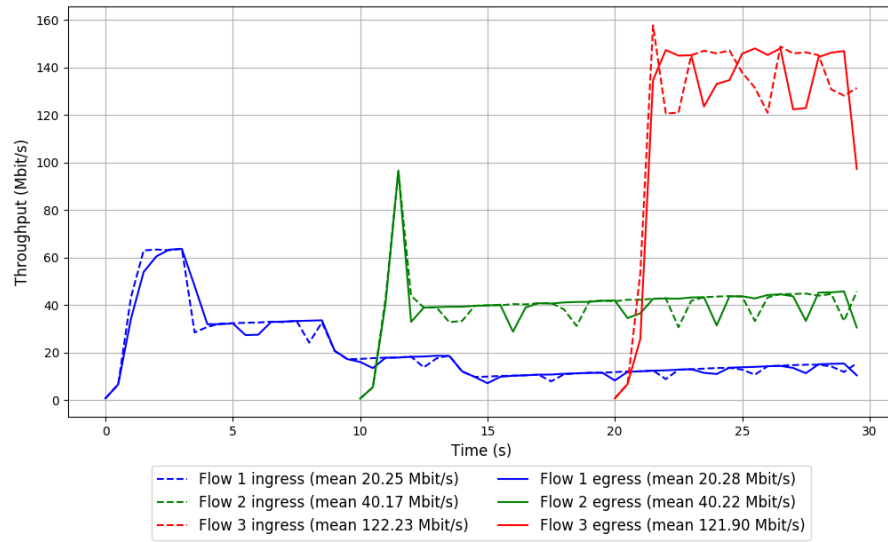
-- Flow 3:

Average throughput: 121.90 Mbit/s

95th percentile per-packet one-way delay: 95.791 ms

Loss rate: 2.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 21:59:05

End at: 2017-12-05 21:59:35

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.29 Mbit/s

95th percentile per-packet one-way delay: 95.783 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 52.27 Mbit/s

95th percentile per-packet one-way delay: 94.011 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 92.790 ms

Loss rate: 0.56%

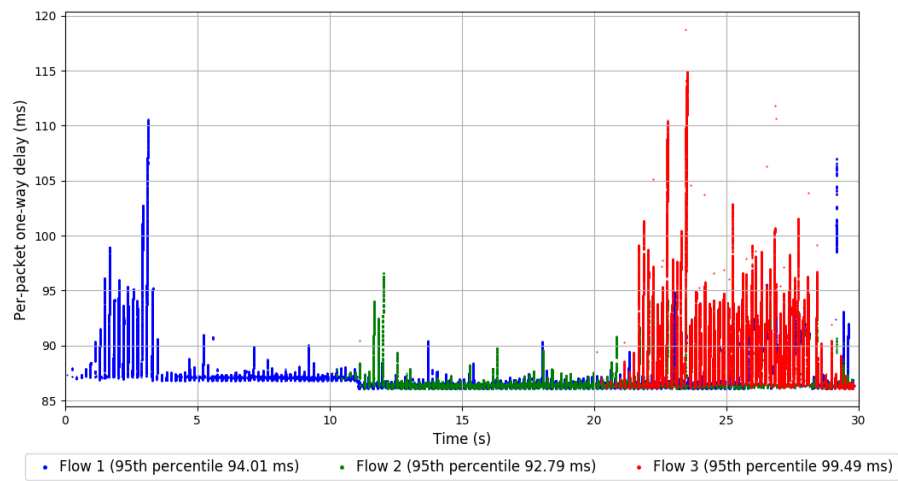
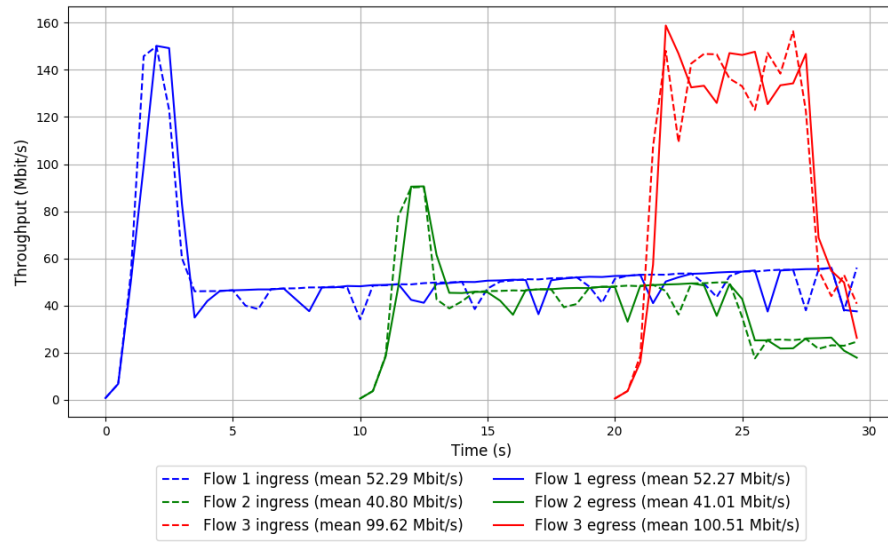
-- Flow 3:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 99.491 ms

Loss rate: 0.90%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 22:12:50

End at: 2017-12-05 22:13:20

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.43 Mbit/s

95th percentile per-packet one-way delay: 88.485 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 88.130 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 54.01 Mbit/s

95th percentile per-packet one-way delay: 88.630 ms

Loss rate: 0.91%

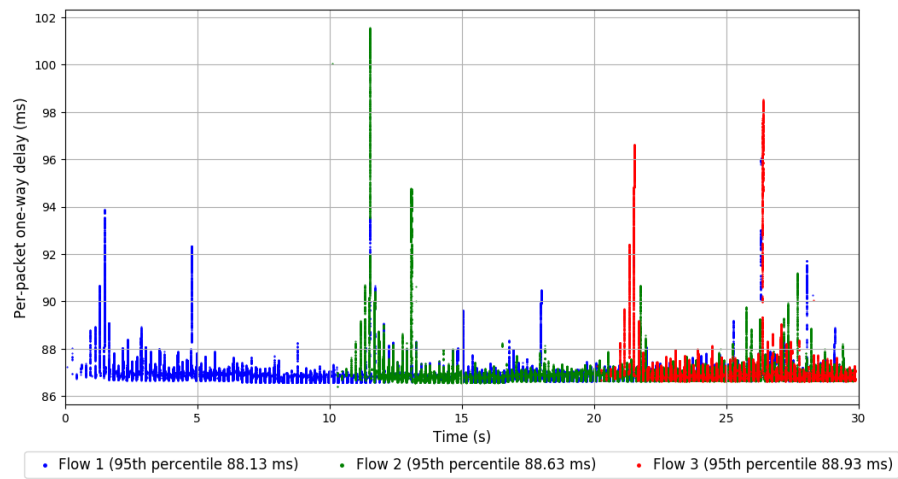
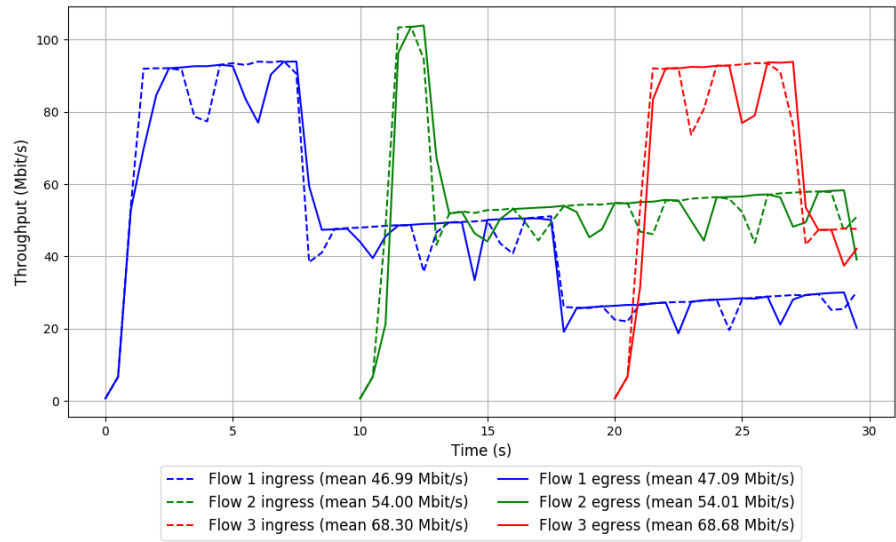
-- Flow 3:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 88.930 ms

Loss rate: 1.20%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-05 22:26:08

End at: 2017-12-05 22:26:38

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.37 Mbit/s

95th percentile per-packet one-way delay: 88.482 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 27.70 Mbit/s

95th percentile per-packet one-way delay: 88.017 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 25.84 Mbit/s

95th percentile per-packet one-way delay: 87.854 ms

Loss rate: 1.05%

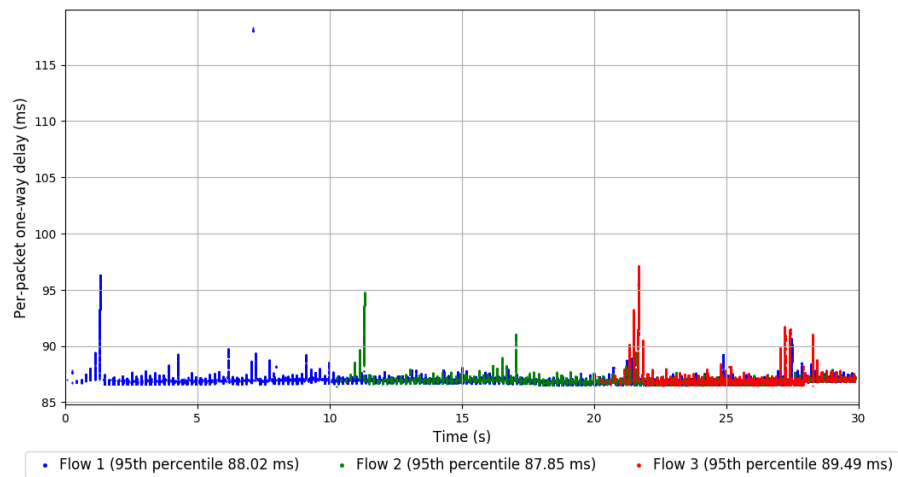
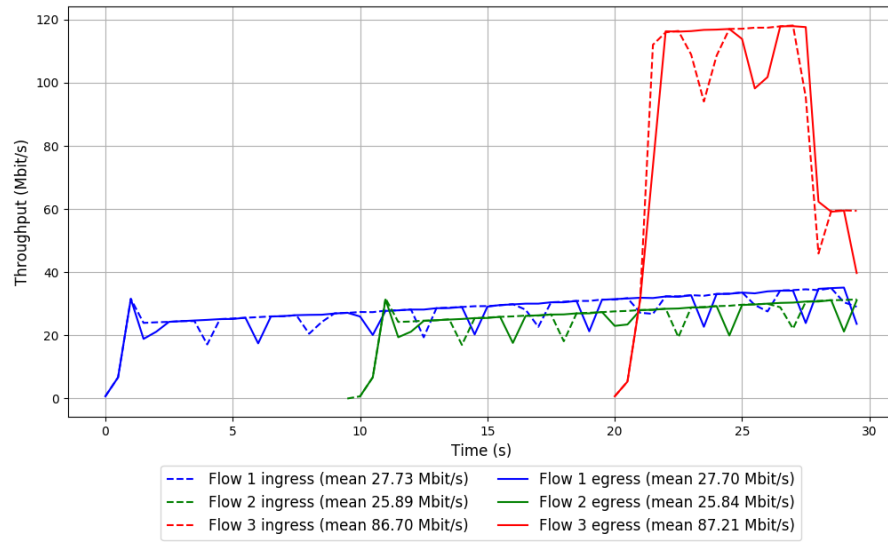
-- Flow 3:

Average throughput: 87.21 Mbit/s

95th percentile per-packet one-way delay: 89.491 ms

Loss rate: 1.17%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-05 22:39:31

End at: 2017-12-05 22:40:01

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 91.452 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 87.606 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 88.355 ms

Loss rate: 0.97%

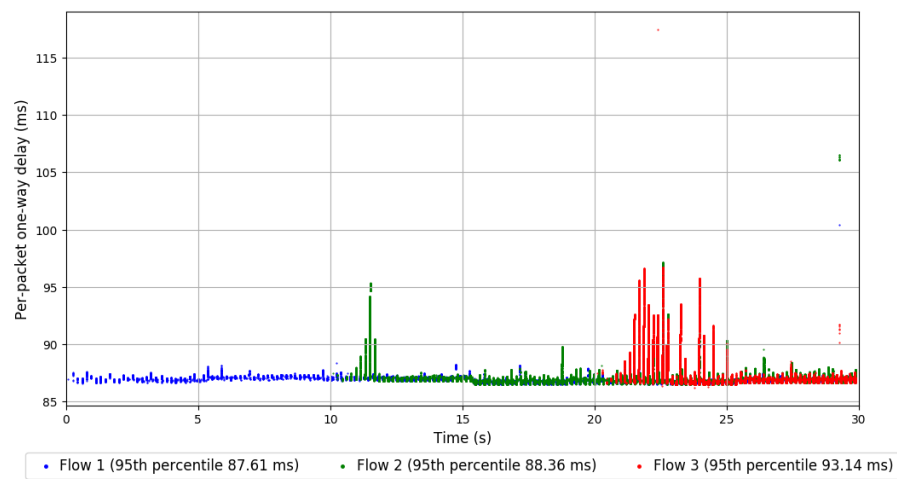
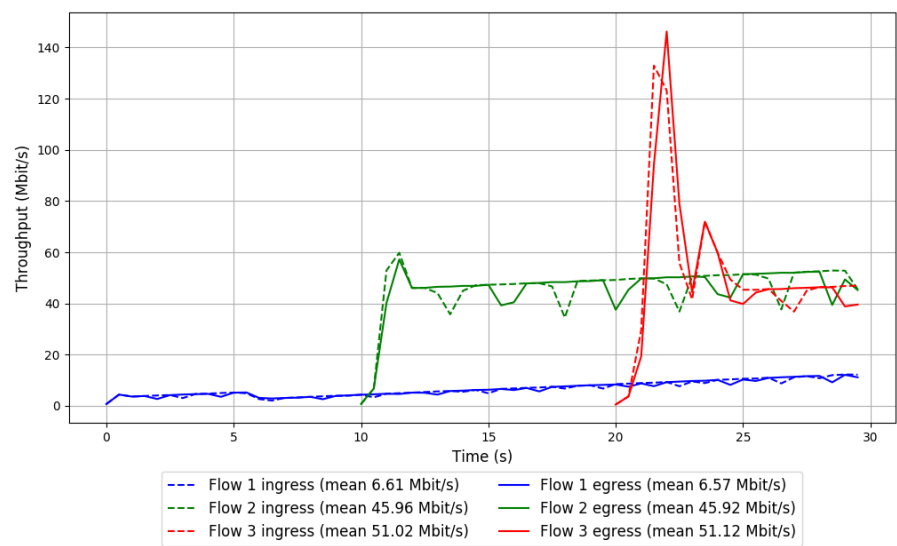
-- Flow 3:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 93.145 ms

Loss rate: 1.55%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-05 22:52:49

End at: 2017-12-05 22:53:19

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.96 Mbit/s

95th percentile per-packet one-way delay: 92.876 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 91.641 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 94.133 ms

Loss rate: 0.74%

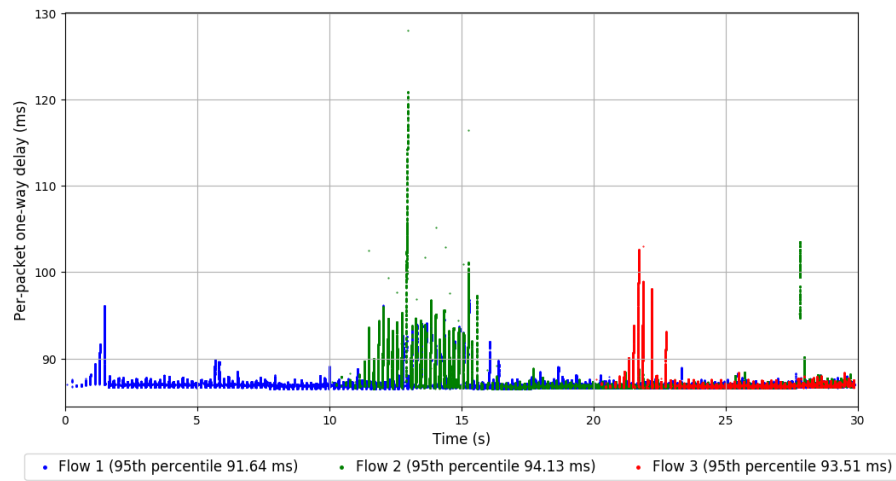
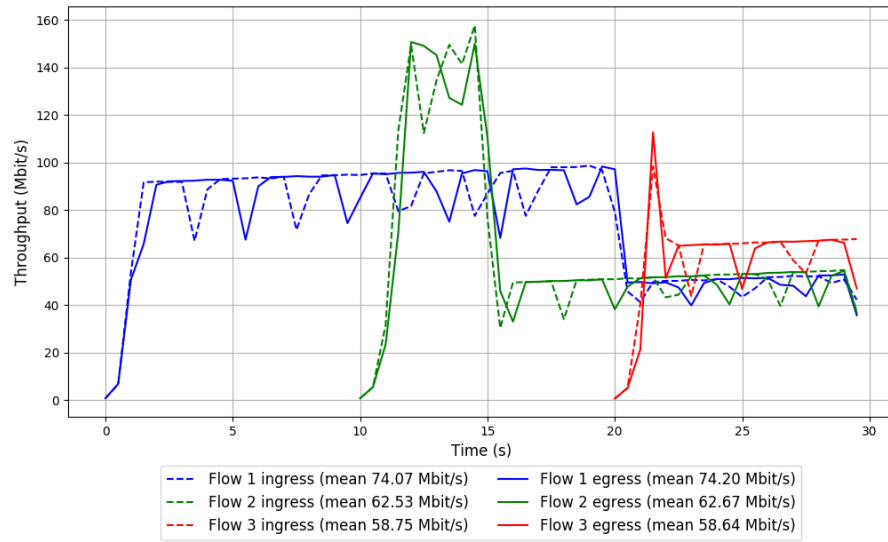
-- Flow 3:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 93.511 ms

Loss rate: 1.94%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-05 23:06:26

End at: 2017-12-05 23:06:56

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 90.884 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 32.44 Mbit/s

95th percentile per-packet one-way delay: 88.007 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 52.53 Mbit/s

95th percentile per-packet one-way delay: 94.032 ms

Loss rate: 0.88%

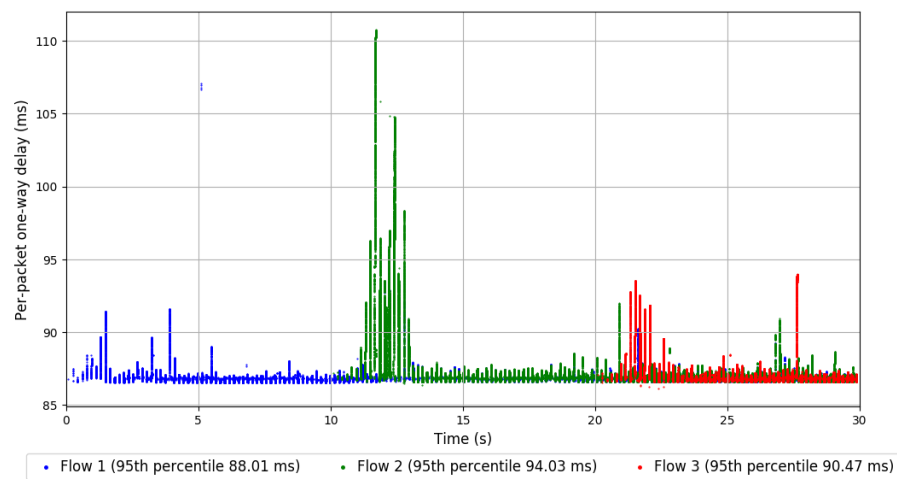
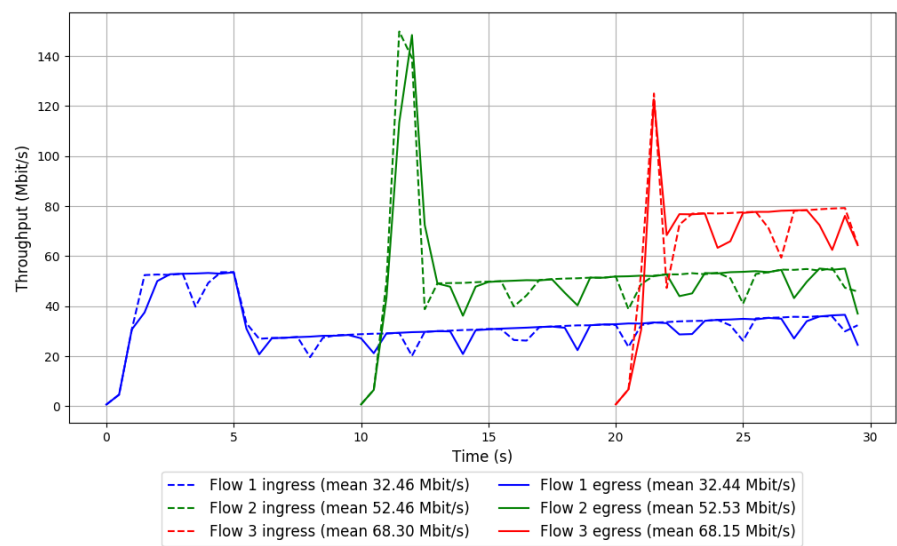
-- Flow 3:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 90.467 ms

Loss rate: 1.95%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-05 23:19:47

End at: 2017-12-05 23:20:17

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 92.034 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 13.93 Mbit/s

95th percentile per-packet one-way delay: 87.542 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 87.972 ms

Loss rate: 0.65%

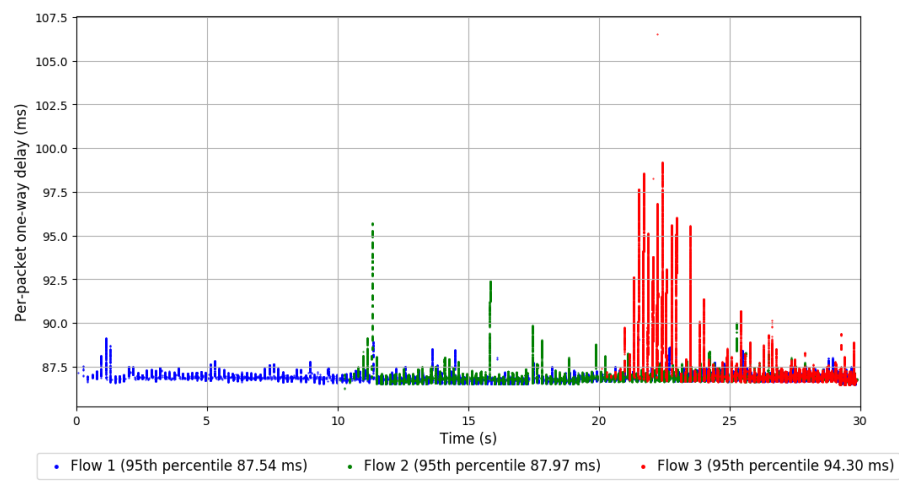
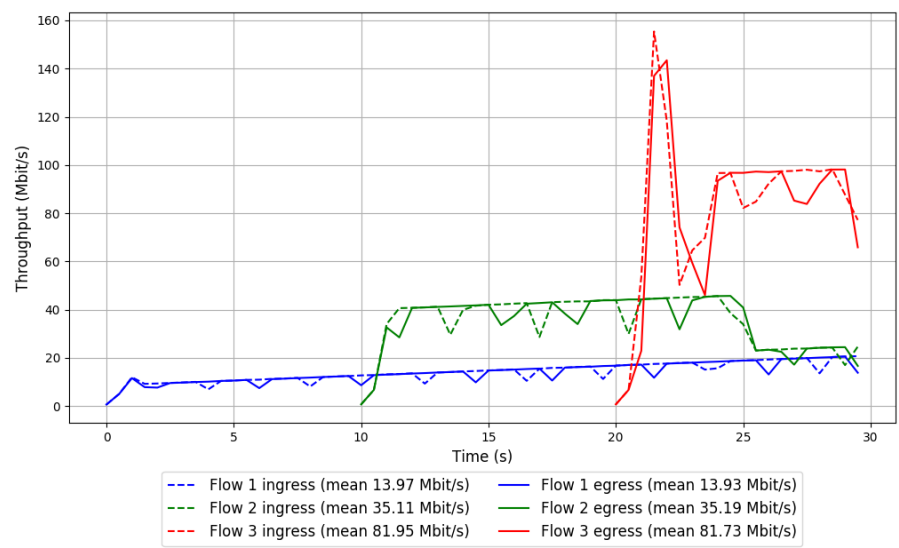
-- Flow 3:

Average throughput: 81.73 Mbit/s

95th percentile per-packet one-way delay: 94.295 ms

Loss rate: 2.03%

Run 10: Report of TCP Vegas — Data Link

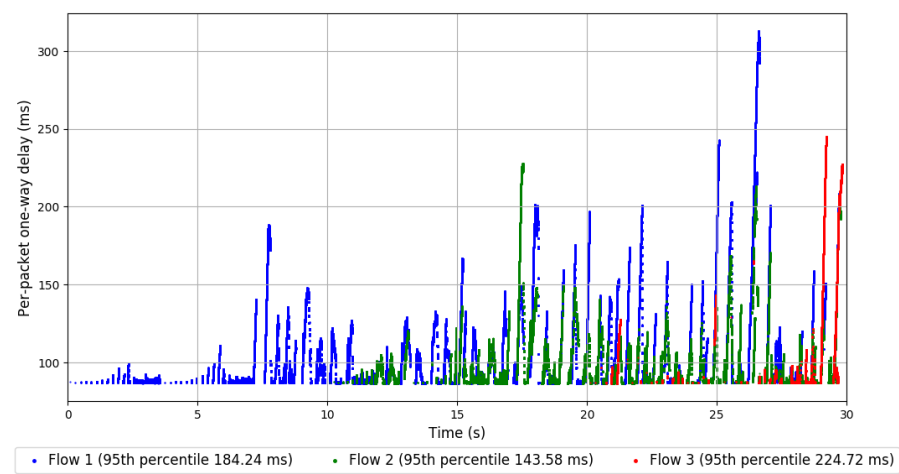
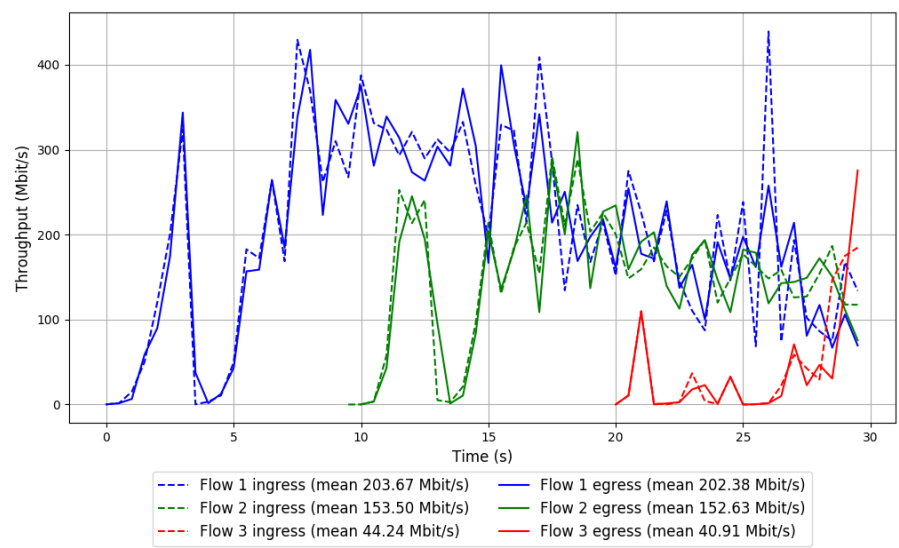


```
Run 1: Statistics of Verus

Start at: 2017-12-05 21:20:44
End at: 2017-12-05 21:21:14

# Below is generated by plot.py at 2017-12-06 02:20:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.78 Mbit/s
95th percentile per-packet one-way delay: 182.378 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 202.38 Mbit/s
95th percentile per-packet one-way delay: 184.244 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 152.63 Mbit/s
95th percentile per-packet one-way delay: 143.576 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 224.719 ms
Loss rate: 7.63%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-05 21:34:21

End at: 2017-12-05 21:34:51

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.71 Mbit/s

95th percentile per-packet one-way delay: 209.415 ms

Loss rate: 4.61%

-- Flow 1:

Average throughput: 223.00 Mbit/s

95th percentile per-packet one-way delay: 176.359 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 147.38 Mbit/s

95th percentile per-packet one-way delay: 229.117 ms

Loss rate: 5.38%

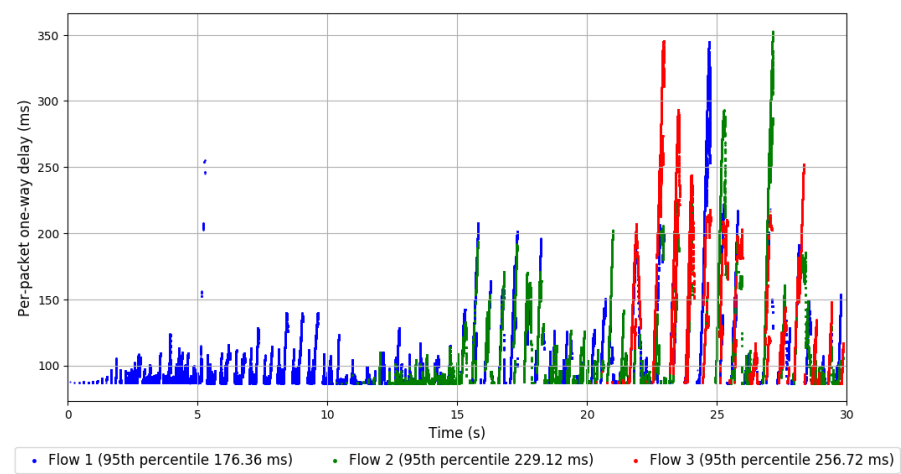
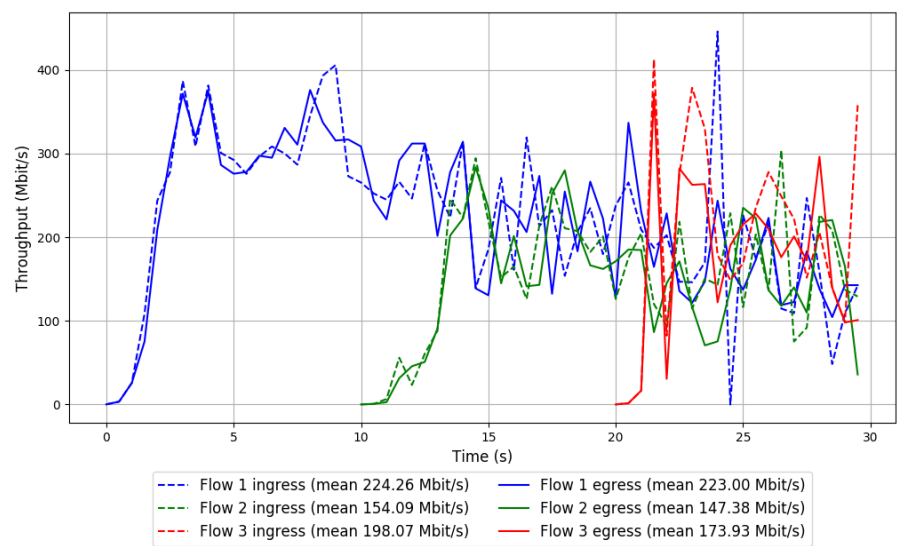
-- Flow 3:

Average throughput: 173.93 Mbit/s

95th percentile per-packet one-way delay: 256.720 ms

Loss rate: 14.01%

Run 2: Report of Verus — Data Link

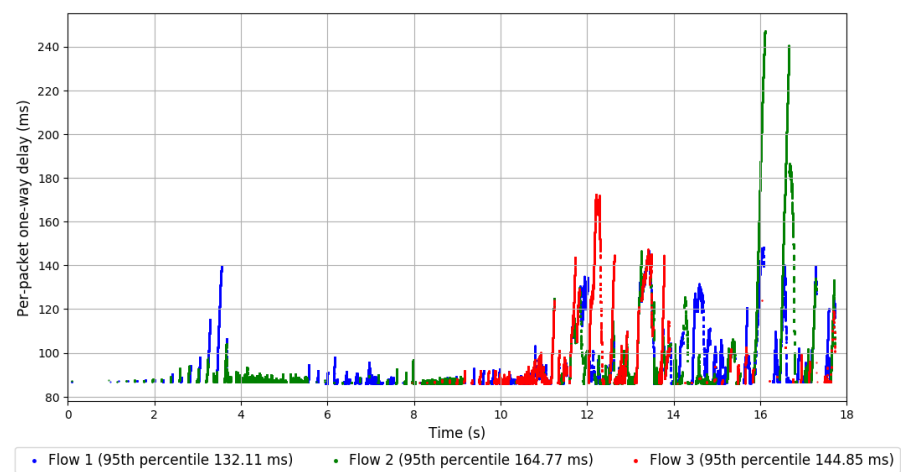
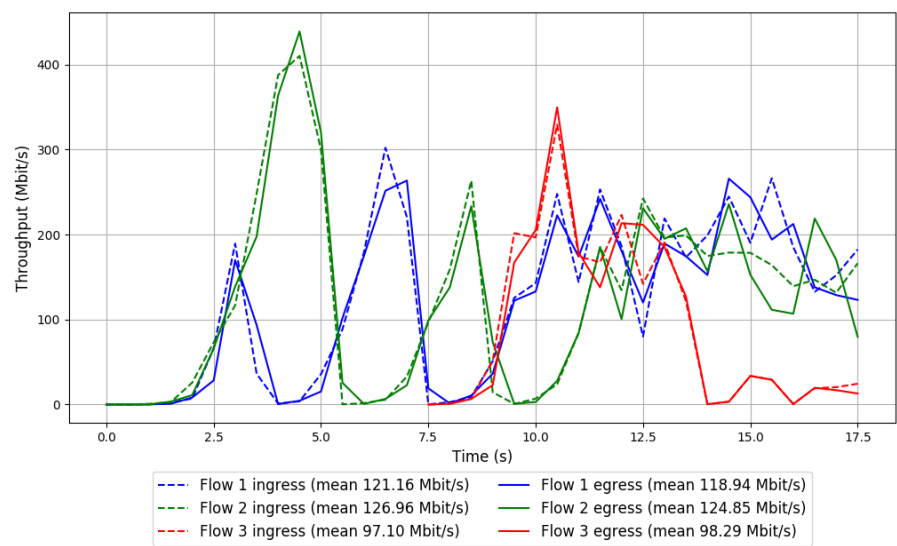


Run 3: Statistics of Verus

Start at: 2017-12-05 21:48:18

End at: 2017-12-05 21:48:48

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-05 22:01:56

End at: 2017-12-05 22:02:26

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.32 Mbit/s

95th percentile per-packet one-way delay: 139.084 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 239.18 Mbit/s

95th percentile per-packet one-way delay: 128.658 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 119.25 Mbit/s

95th percentile per-packet one-way delay: 203.625 ms

Loss rate: 2.77%

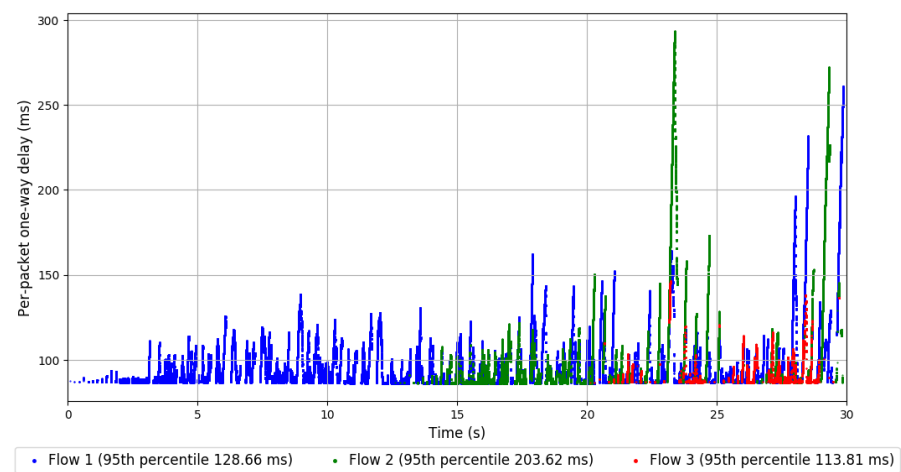
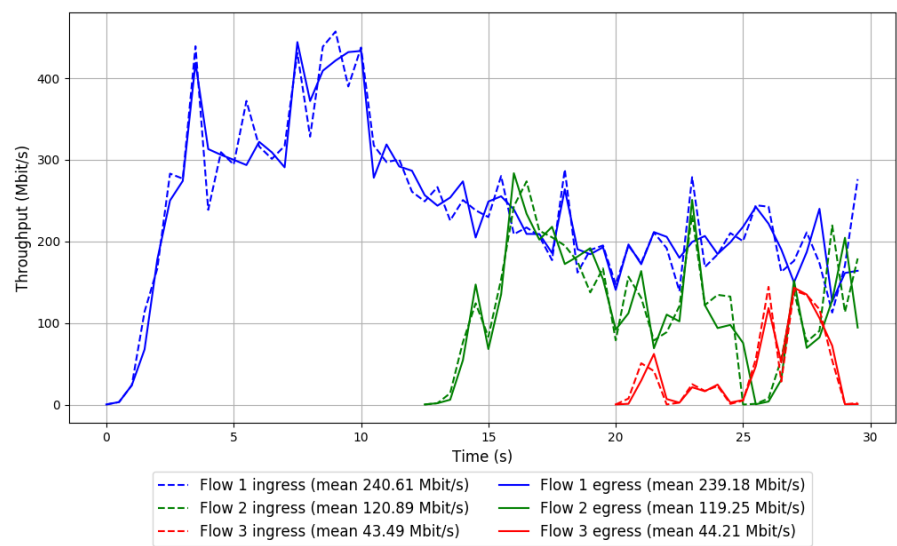
-- Flow 3:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 113.809 ms

Loss rate: 0.14%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-05 22:15:32

End at: 2017-12-05 22:16:02

Below is generated by plot.py at 2017-12-06 02:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.15 Mbit/s

95th percentile per-packet one-way delay: 262.513 ms

Loss rate: 3.76%

-- Flow 1:

Average throughput: 233.08 Mbit/s

95th percentile per-packet one-way delay: 271.746 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 158.501 ms

Loss rate: 2.02%

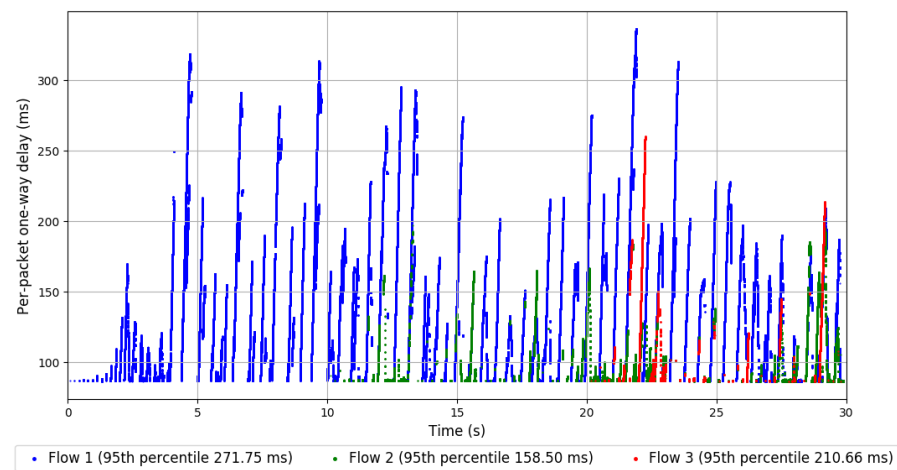
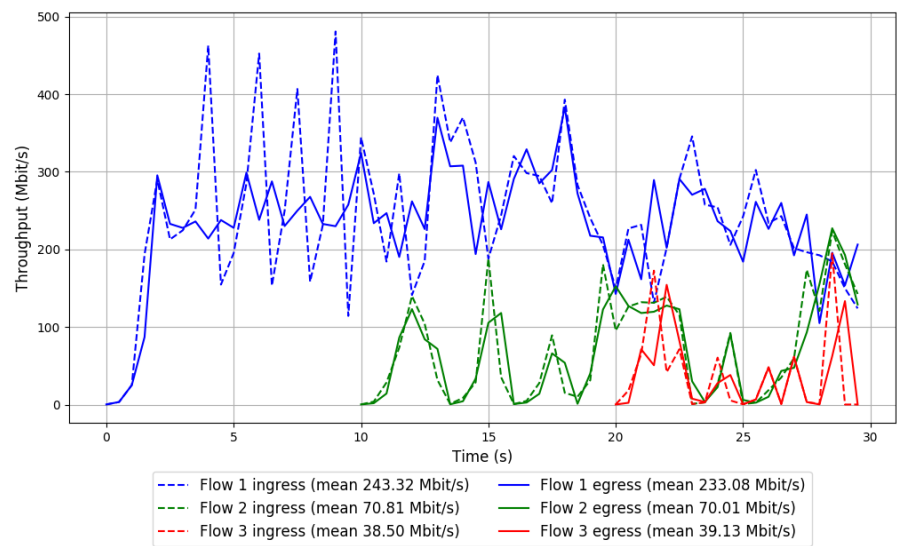
-- Flow 3:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 210.661 ms

Loss rate: 0.17%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-05 22:28:50

End at: 2017-12-05 22:29:20

Below is generated by plot.py at 2017-12-06 02:20:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.59 Mbit/s

95th percentile per-packet one-way delay: 180.668 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 194.24 Mbit/s

95th percentile per-packet one-way delay: 209.881 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 161.43 Mbit/s

95th percentile per-packet one-way delay: 158.141 ms

Loss rate: 0.81%

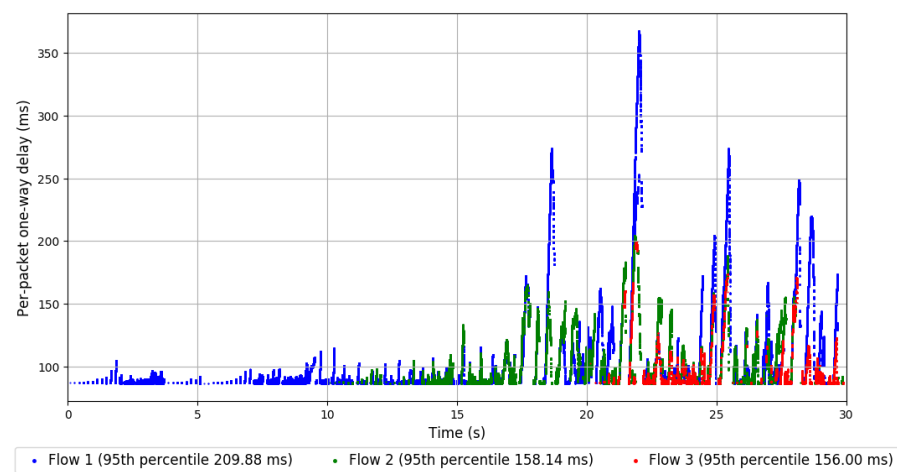
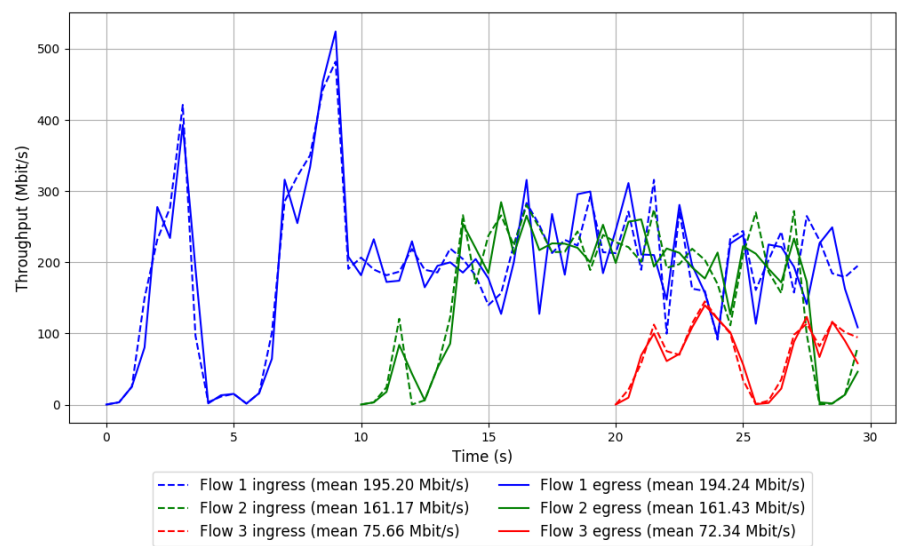
-- Flow 3:

Average throughput: 72.34 Mbit/s

95th percentile per-packet one-way delay: 156.003 ms

Loss rate: 6.09%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-05 22:42:14

End at: 2017-12-05 22:42:44

Below is generated by plot.py at 2017-12-06 02:21:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.62 Mbit/s

95th percentile per-packet one-way delay: 241.285 ms

Loss rate: 3.51%

-- Flow 1:

Average throughput: 107.76 Mbit/s

95th percentile per-packet one-way delay: 283.273 ms

Loss rate: 6.17%

-- Flow 2:

Average throughput: 208.11 Mbit/s

95th percentile per-packet one-way delay: 179.170 ms

Loss rate: 1.31%

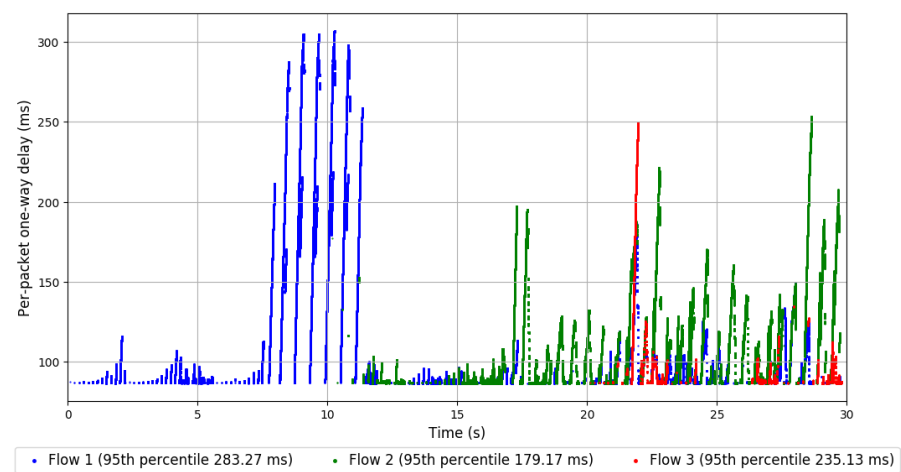
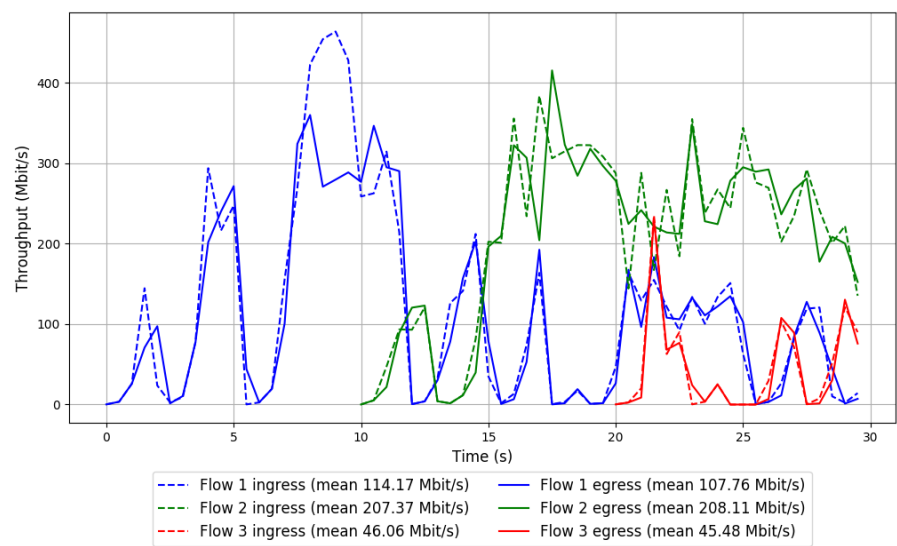
-- Flow 3:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 235.134 ms

Loss rate: 3.58%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-05 22:55:35

End at: 2017-12-05 22:56:05

Below is generated by plot.py at 2017-12-06 02:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.34 Mbit/s

95th percentile per-packet one-way delay: 214.325 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 230.31 Mbit/s

95th percentile per-packet one-way delay: 226.442 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 186.209 ms

Loss rate: 3.20%

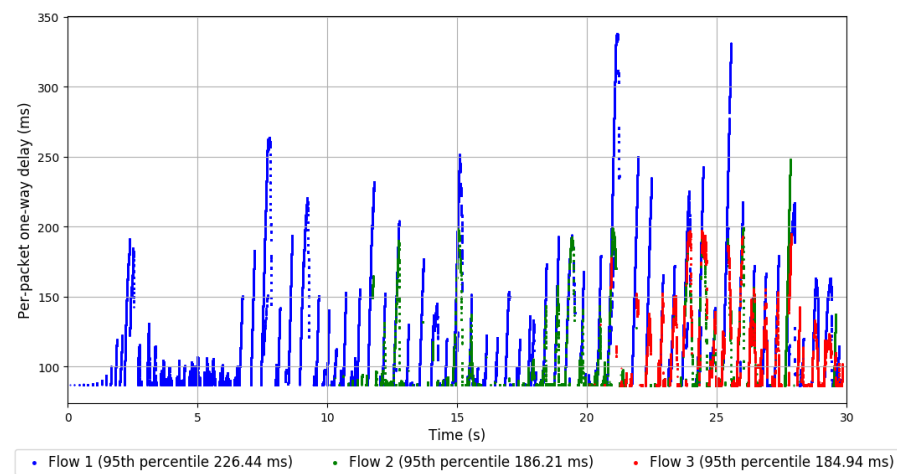
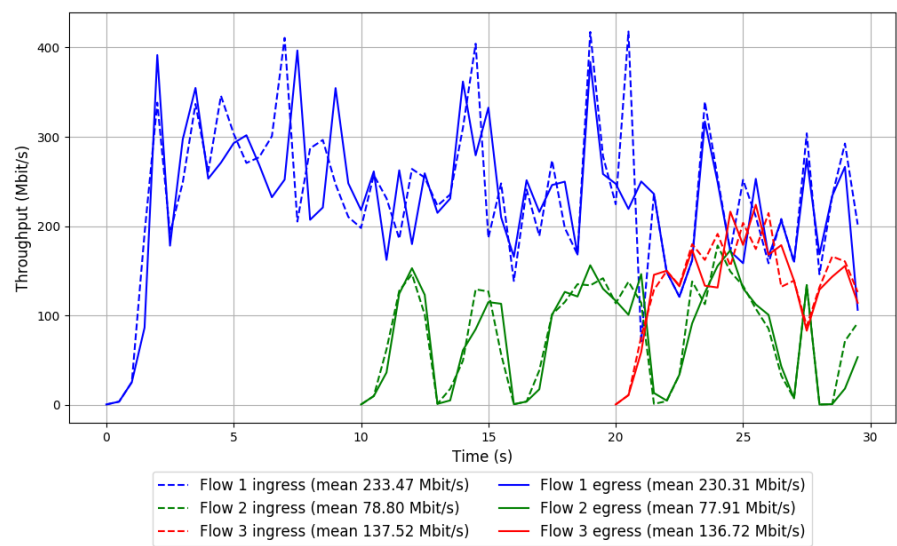
-- Flow 3:

Average throughput: 136.72 Mbit/s

95th percentile per-packet one-way delay: 184.938 ms

Loss rate: 2.15%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-05 23:09:08

End at: 2017-12-05 23:09:38

Below is generated by plot.py at 2017-12-06 02:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.95 Mbit/s

95th percentile per-packet one-way delay: 174.522 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 193.87 Mbit/s

95th percentile per-packet one-way delay: 138.103 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 152.60 Mbit/s

95th percentile per-packet one-way delay: 231.574 ms

Loss rate: 3.12%

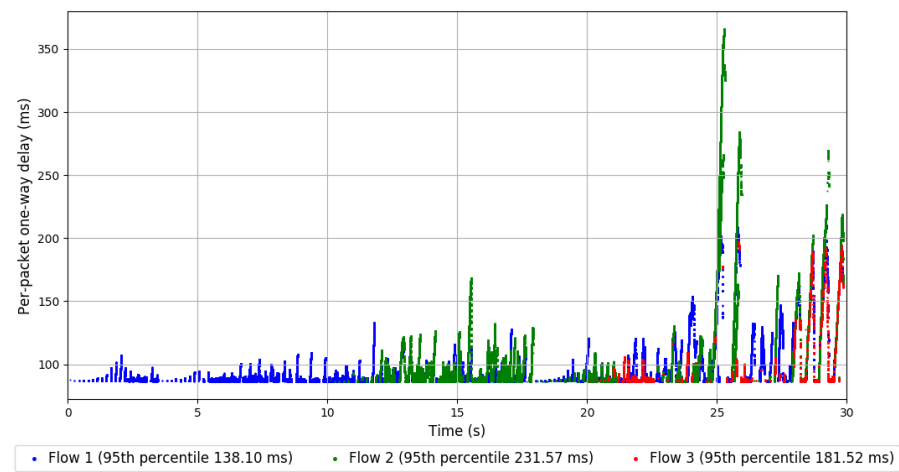
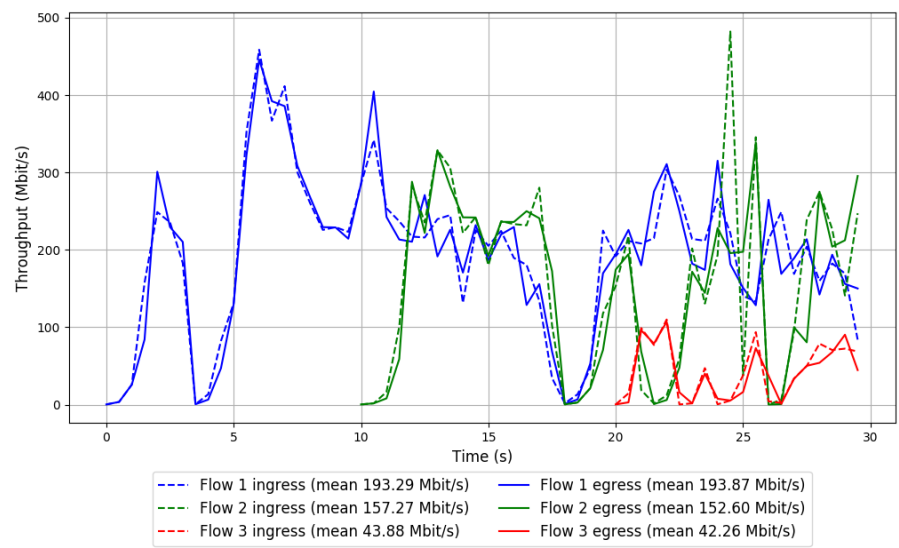
-- Flow 3:

Average throughput: 42.26 Mbit/s

95th percentile per-packet one-way delay: 181.524 ms

Loss rate: 5.13%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-05 23:22:28

End at: 2017-12-05 23:22:58

Below is generated by plot.py at 2017-12-06 02:24:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.51 Mbit/s

95th percentile per-packet one-way delay: 130.902 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 183.00 Mbit/s

95th percentile per-packet one-way delay: 140.700 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 117.77 Mbit/s

95th percentile per-packet one-way delay: 121.511 ms

Loss rate: 0.54%

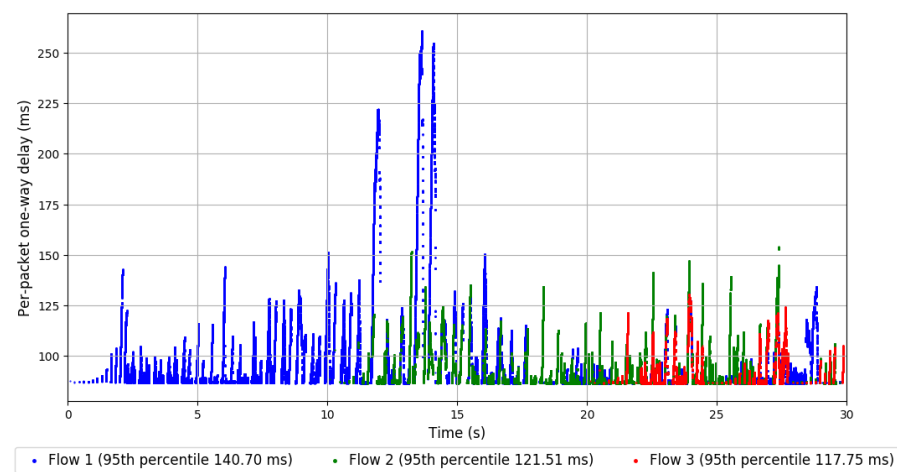
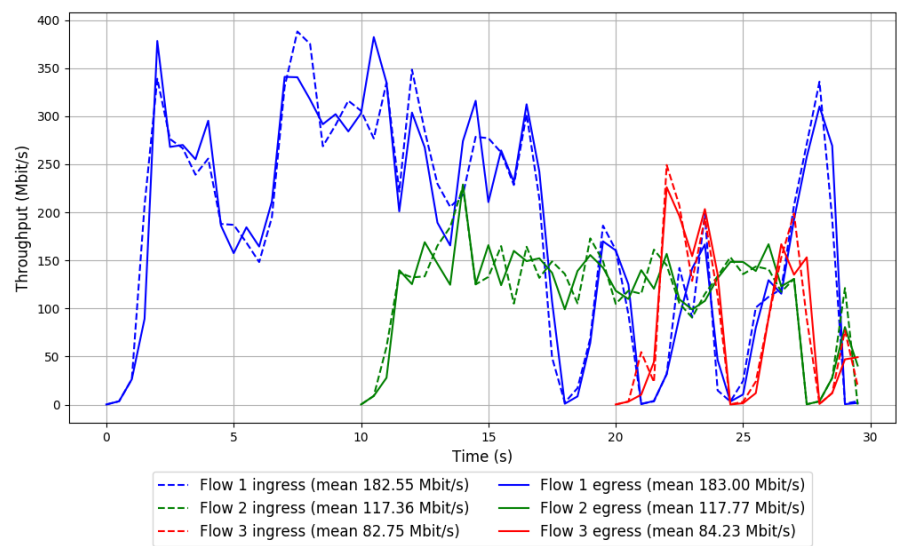
-- Flow 3:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 117.752 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

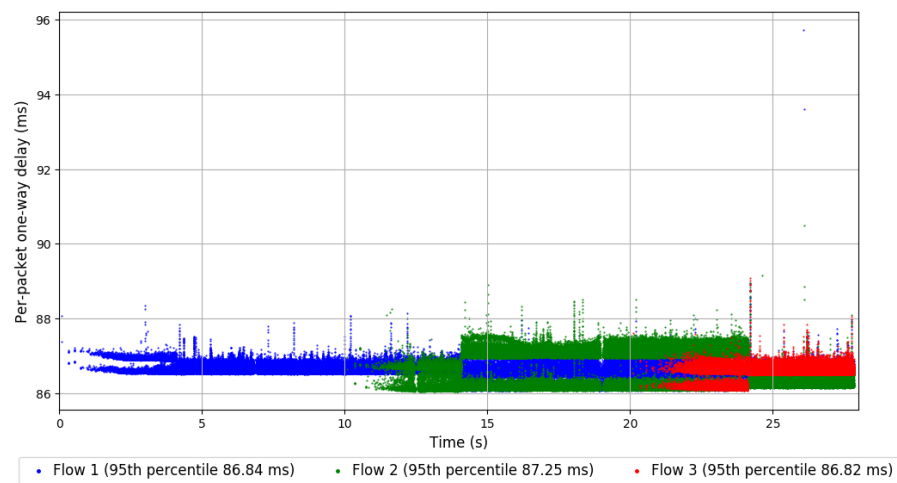
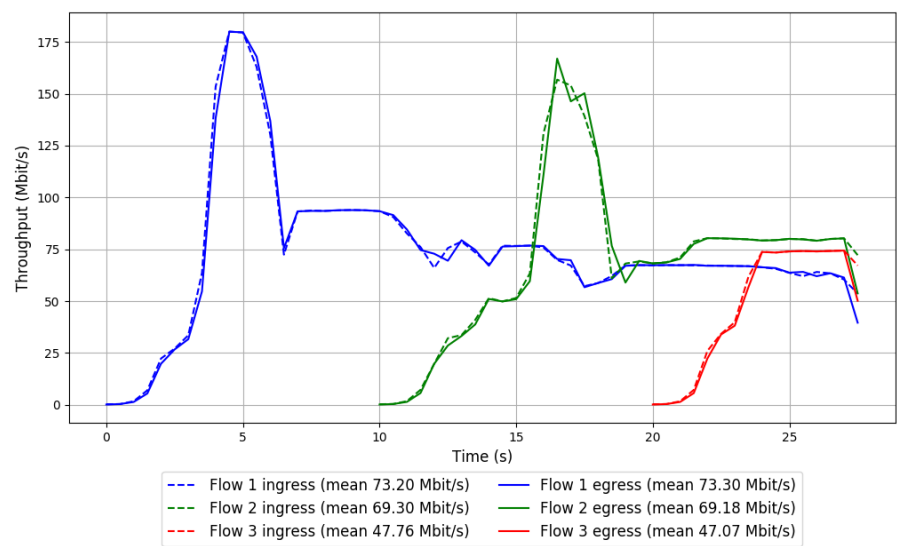


```
Run 1: Statistics of Copa

Start at: 2017-12-05 21:10:20
End at: 2017-12-05 21:10:50

# Below is generated by plot.py at 2017-12-06 02:24:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 130.63 Mbit/s
95th percentile per-packet one-way delay: 87.116 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 73.30 Mbit/s
95th percentile per-packet one-way delay: 86.836 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 69.18 Mbit/s
95th percentile per-packet one-way delay: 87.254 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 47.07 Mbit/s
95th percentile per-packet one-way delay: 86.822 ms
Loss rate: 3.95%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-05 21:23:45

End at: 2017-12-05 21:24:15

Below is generated by plot.py at 2017-12-06 02:24:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.22 Mbit/s

95th percentile per-packet one-way delay: 87.390 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 86.969 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 51.76 Mbit/s

95th percentile per-packet one-way delay: 87.604 ms

Loss rate: 0.87%

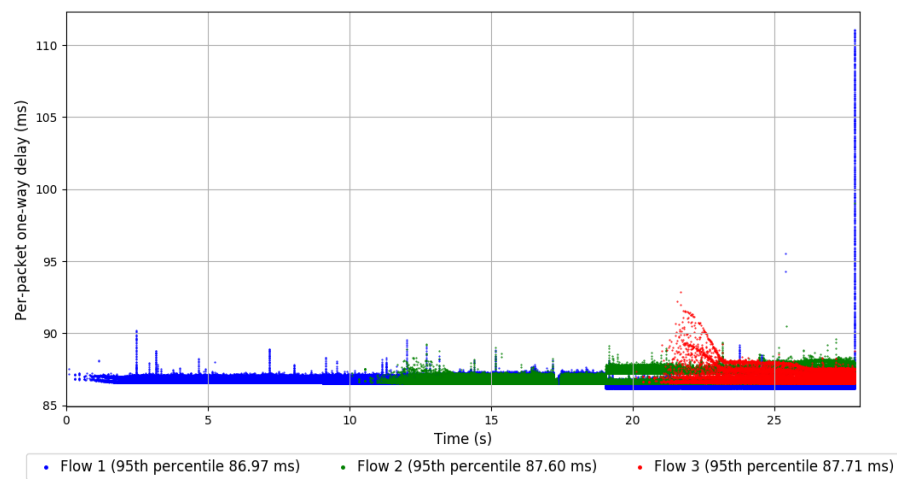
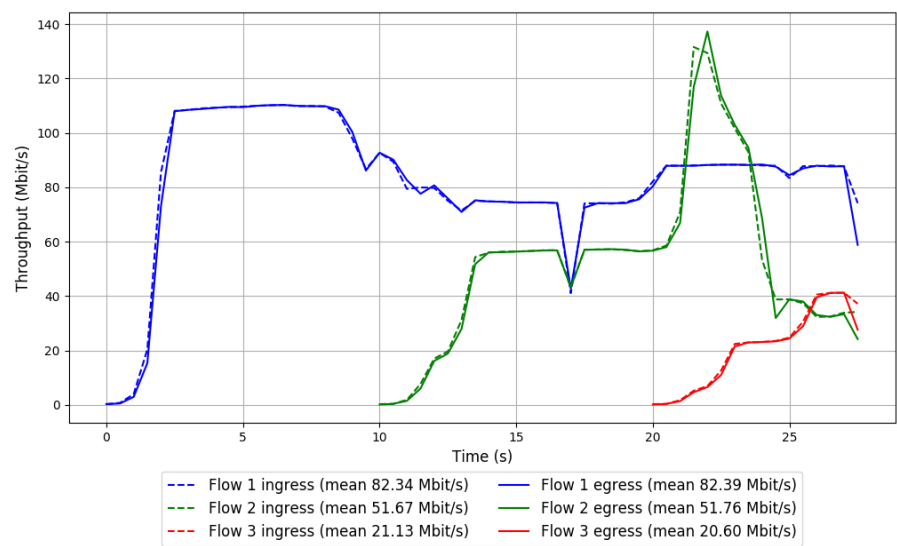
-- Flow 3:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 87.713 ms

Loss rate: 4.98%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-05 21:37:35

End at: 2017-12-05 21:38:05

Below is generated by plot.py at 2017-12-06 02:24:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.45 Mbit/s

95th percentile per-packet one-way delay: 87.188 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 87.209 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 1.08%

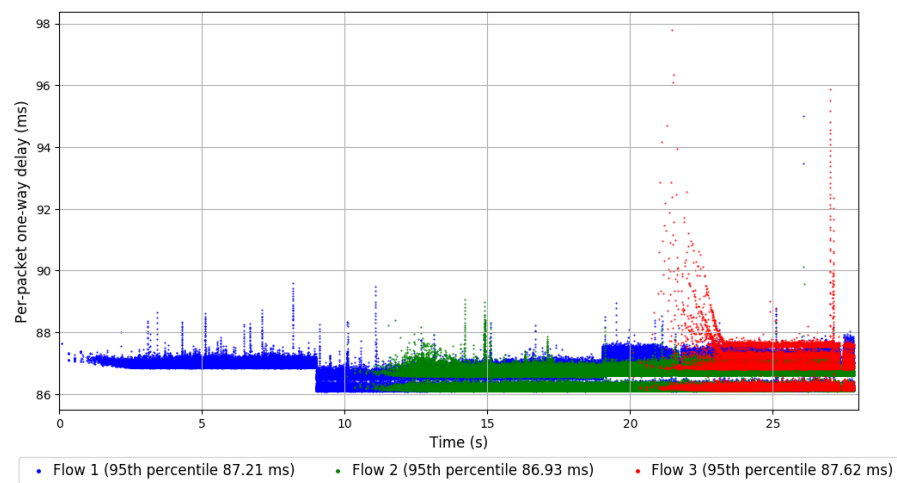
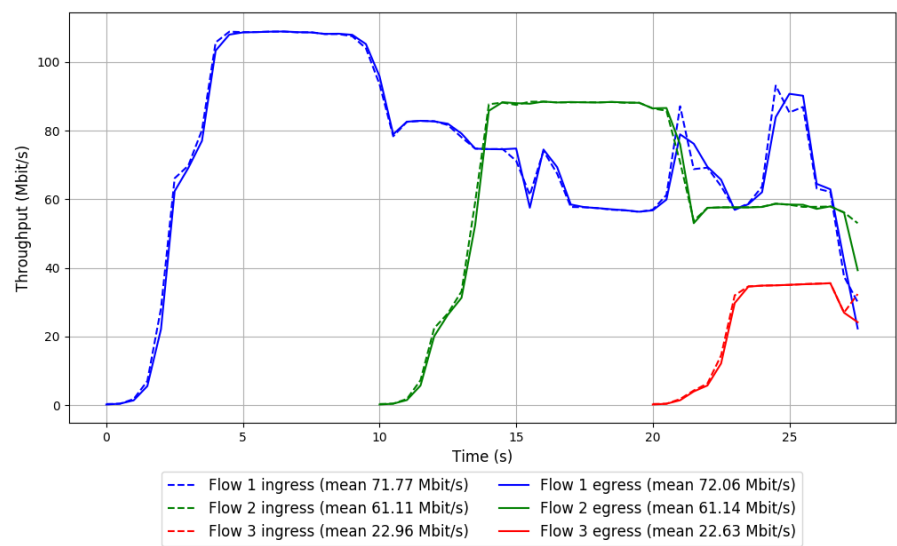
-- Flow 3:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 87.622 ms

Loss rate: 3.94%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-05 21:51:09

End at: 2017-12-05 21:51:39

Below is generated by plot.py at 2017-12-06 02:24:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.77 Mbit/s

95th percentile per-packet one-way delay: 87.019 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 86.813 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 87.172 ms

Loss rate: 0.87%

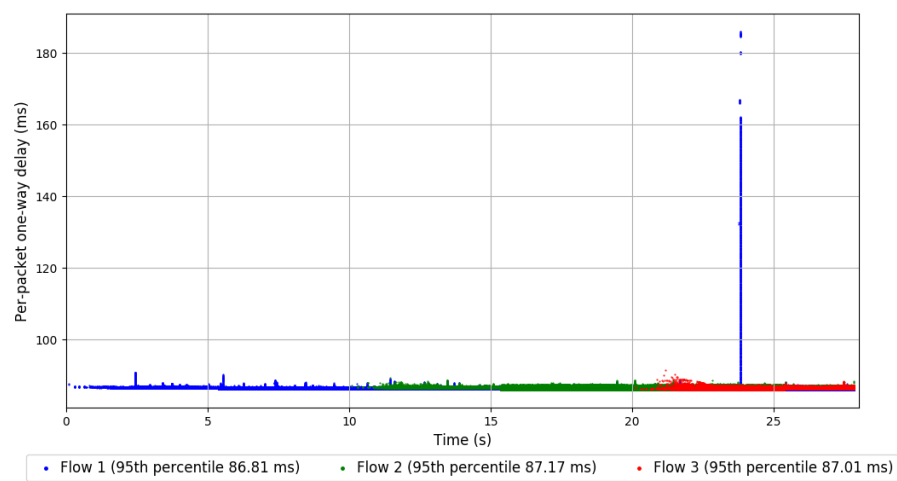
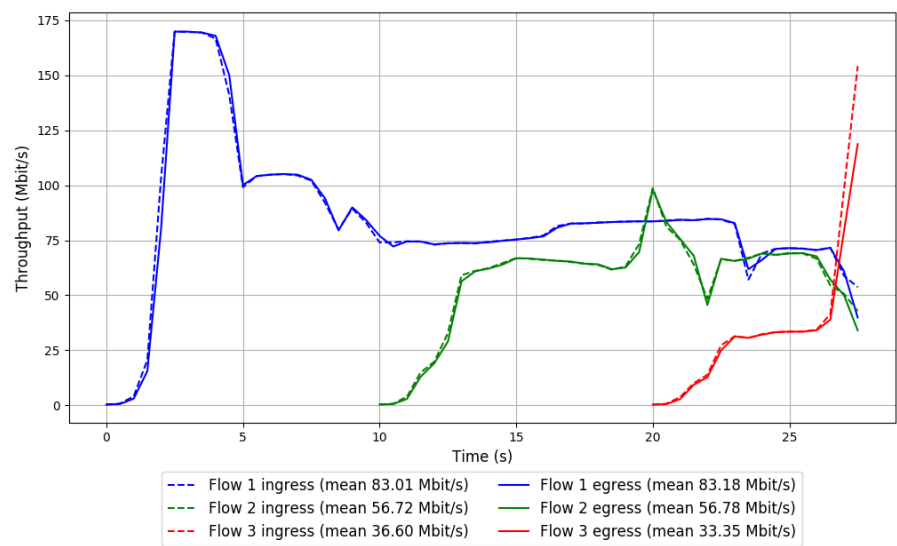
-- Flow 3:

Average throughput: 33.35 Mbit/s

95th percentile per-packet one-way delay: 87.008 ms

Loss rate: 10.88%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-05 22:05:07

End at: 2017-12-05 22:05:37

Below is generated by plot.py at 2017-12-06 02:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.66 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 86.801 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 56.18 Mbit/s

95th percentile per-packet one-way delay: 86.853 ms

Loss rate: 1.01%

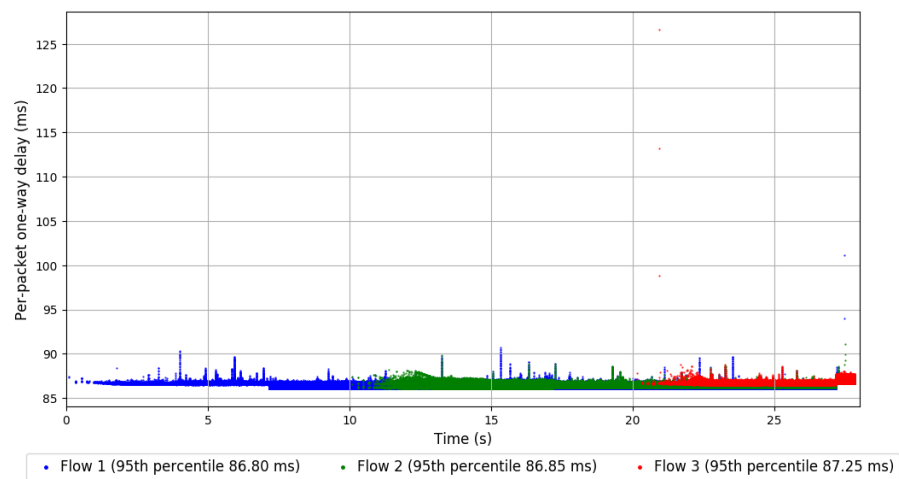
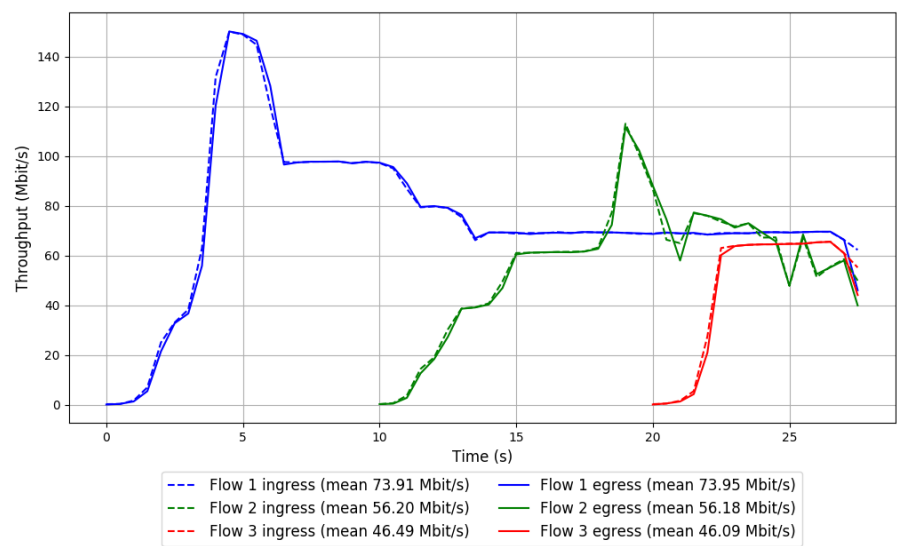
-- Flow 3:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 87.247 ms

Loss rate: 3.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-05 22:18:31

End at: 2017-12-05 22:19:01

Below is generated by plot.py at 2017-12-06 02:27:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.41 Mbit/s

95th percentile per-packet one-way delay: 86.857 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 76.17 Mbit/s

95th percentile per-packet one-way delay: 86.805 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 86.798 ms

Loss rate: 1.03%

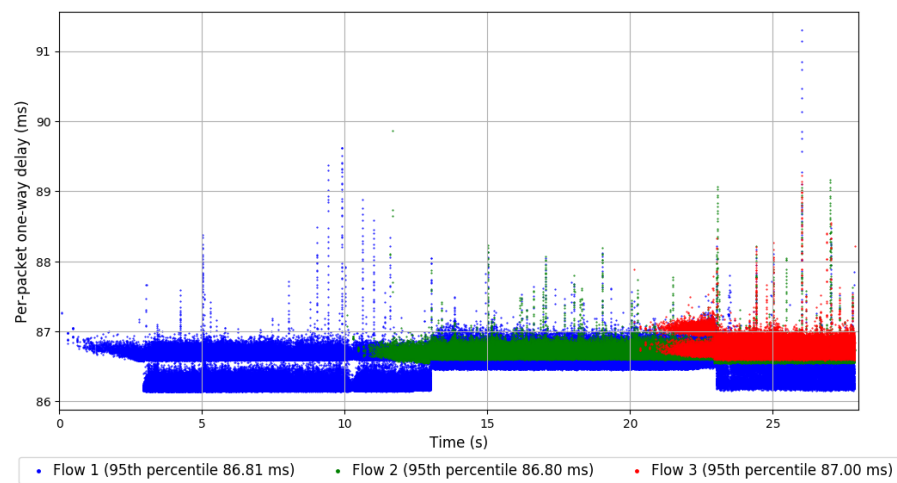
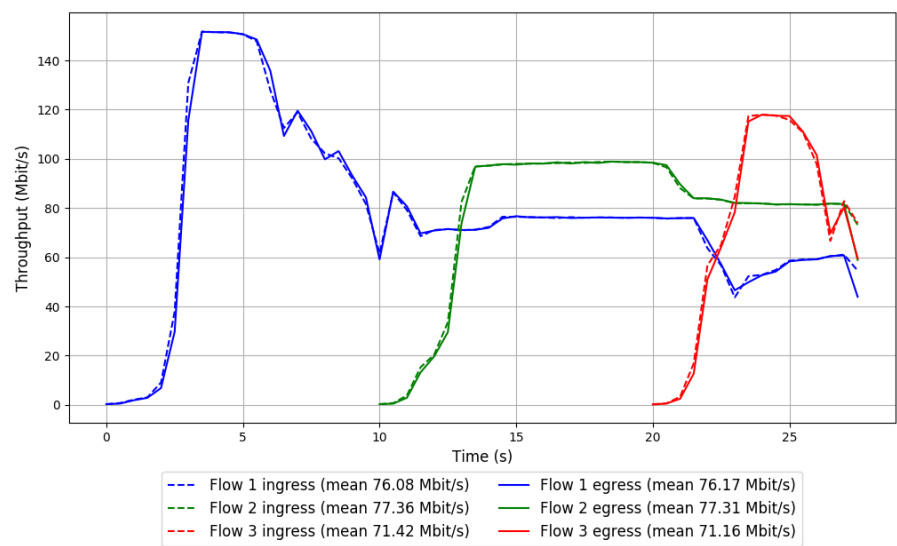
-- Flow 3:

Average throughput: 71.16 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 2.55%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-05 22:31:54

End at: 2017-12-05 22:32:24

Below is generated by plot.py at 2017-12-06 02:27:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.57 Mbit/s

95th percentile per-packet one-way delay: 86.976 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 80.86 Mbit/s

95th percentile per-packet one-way delay: 86.936 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 61.16 Mbit/s

95th percentile per-packet one-way delay: 86.932 ms

Loss rate: 0.75%

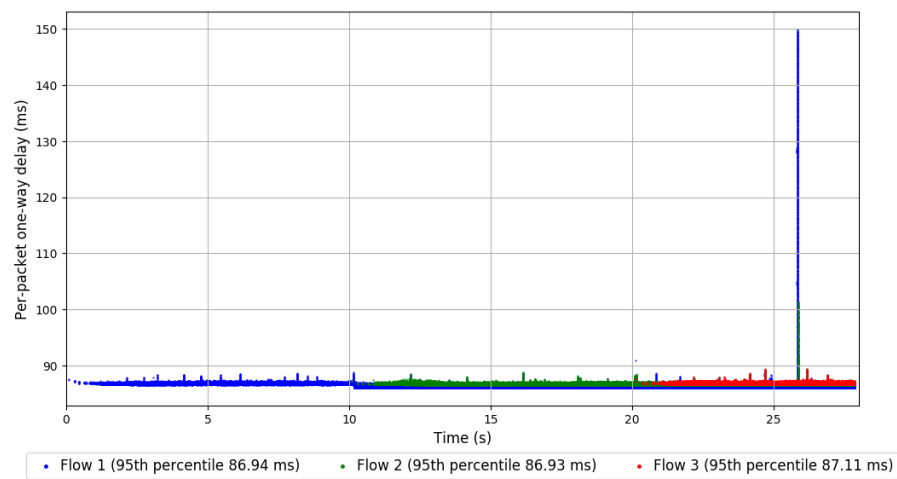
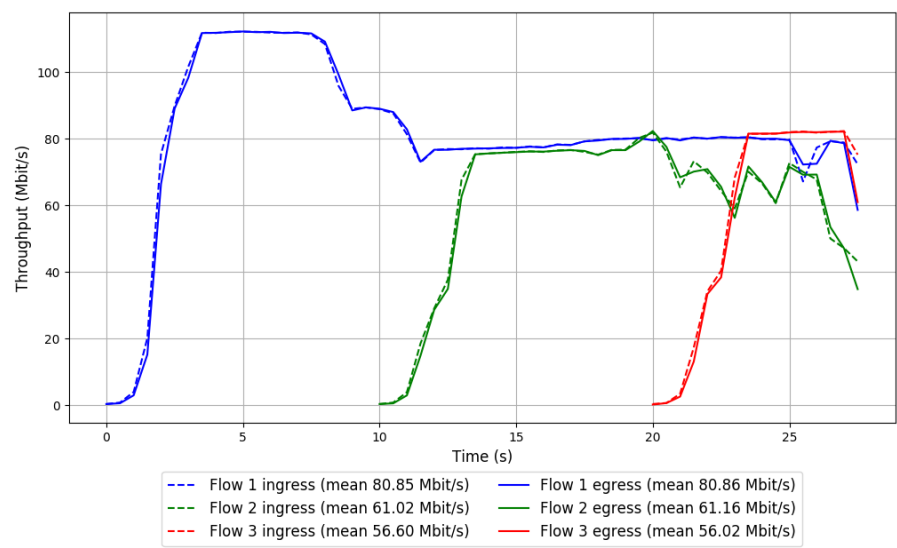
-- Flow 3:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 87.105 ms

Loss rate: 3.19%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-05 22:45:14

End at: 2017-12-05 22:45:44

Below is generated by plot.py at 2017-12-06 02:27:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.45 Mbit/s

95th percentile per-packet one-way delay: 87.205 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 71.49 Mbit/s

95th percentile per-packet one-way delay: 87.311 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 86.967 ms

Loss rate: 1.05%

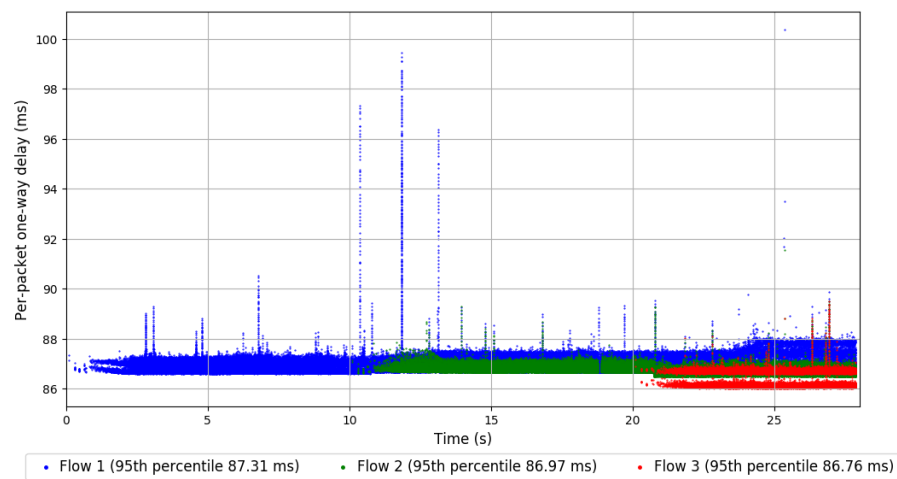
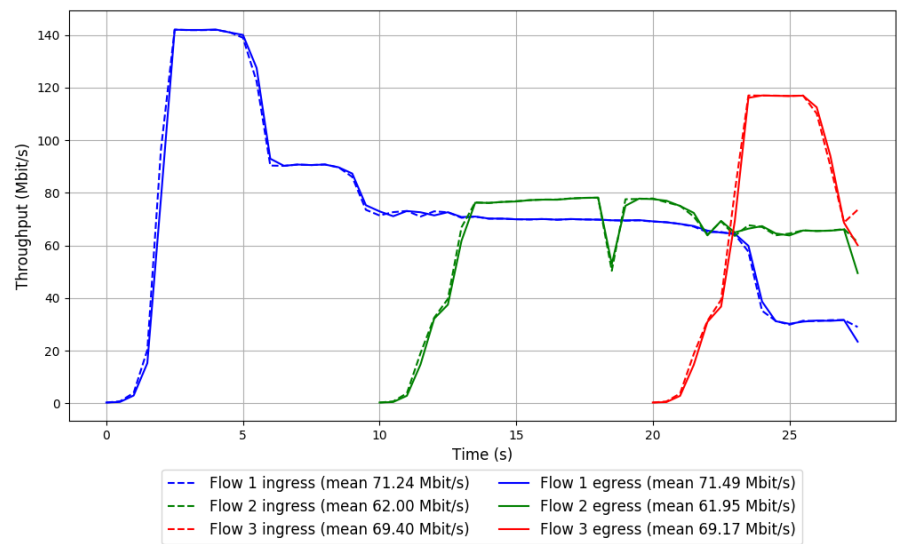
-- Flow 3:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 86.759 ms

Loss rate: 2.51%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-05 22:58:31

End at: 2017-12-05 22:59:01

Below is generated by plot.py at 2017-12-06 02:27:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.58 Mbit/s

95th percentile per-packet one-way delay: 87.136 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 87.088 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 87.185 ms

Loss rate: 1.06%

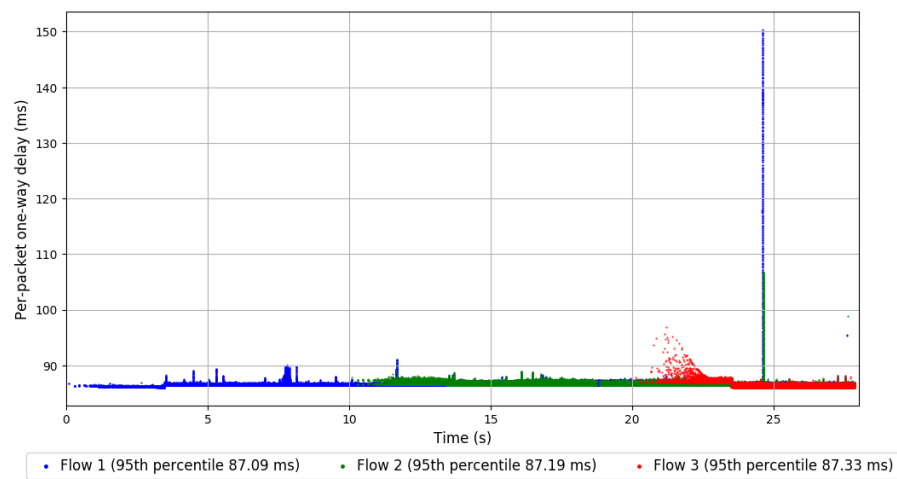
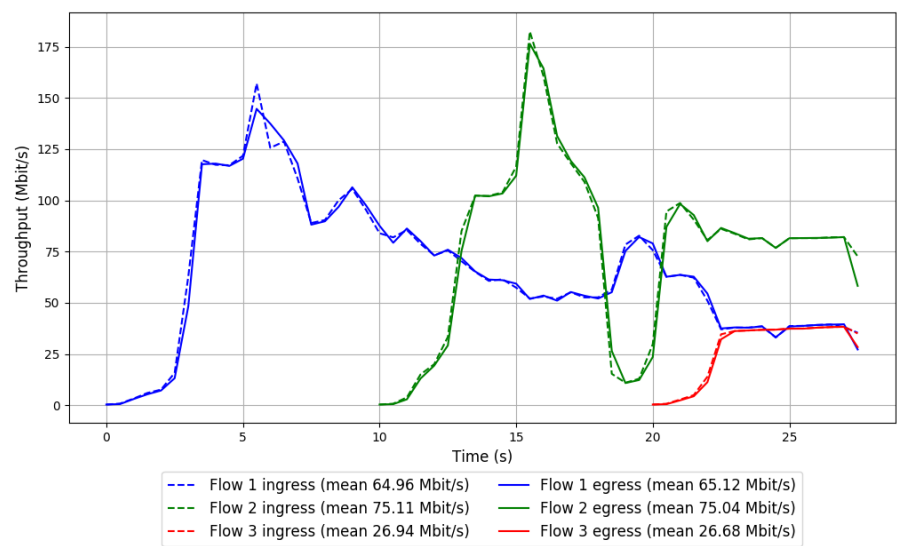
-- Flow 3:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 87.326 ms

Loss rate: 3.12%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-05 23:12:09

End at: 2017-12-05 23:12:39

Below is generated by plot.py at 2017-12-06 02:27:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.98 Mbit/s

95th percentile per-packet one-way delay: 86.861 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 86.868 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 86.751 ms

Loss rate: 1.01%

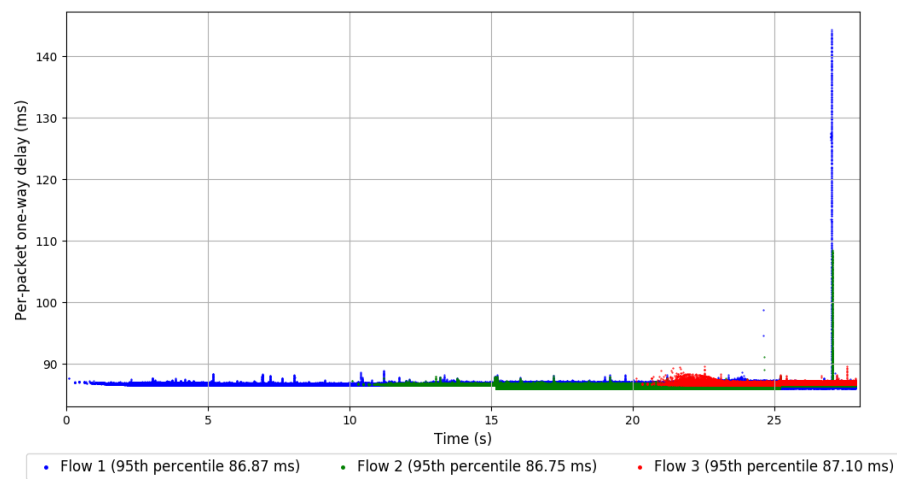
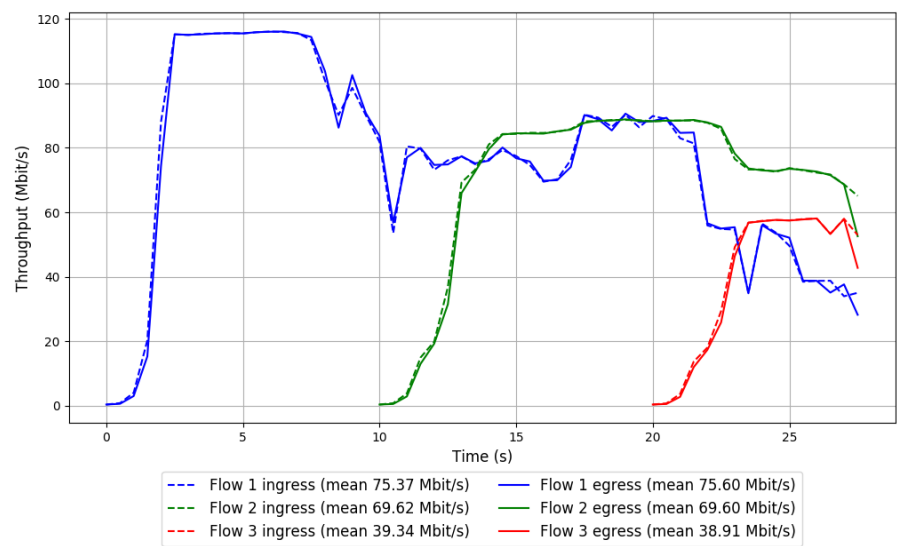
-- Flow 3:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 87.104 ms

Loss rate: 3.26%

Run 10: Report of Copa — Data Link

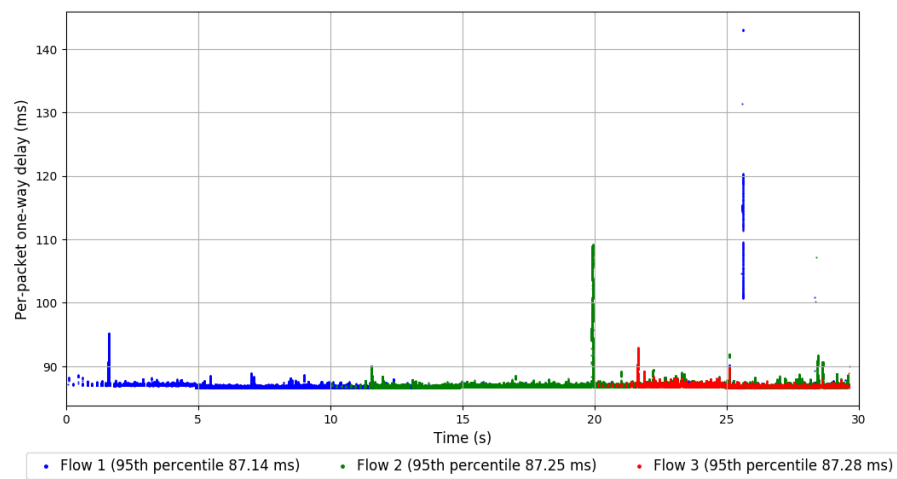
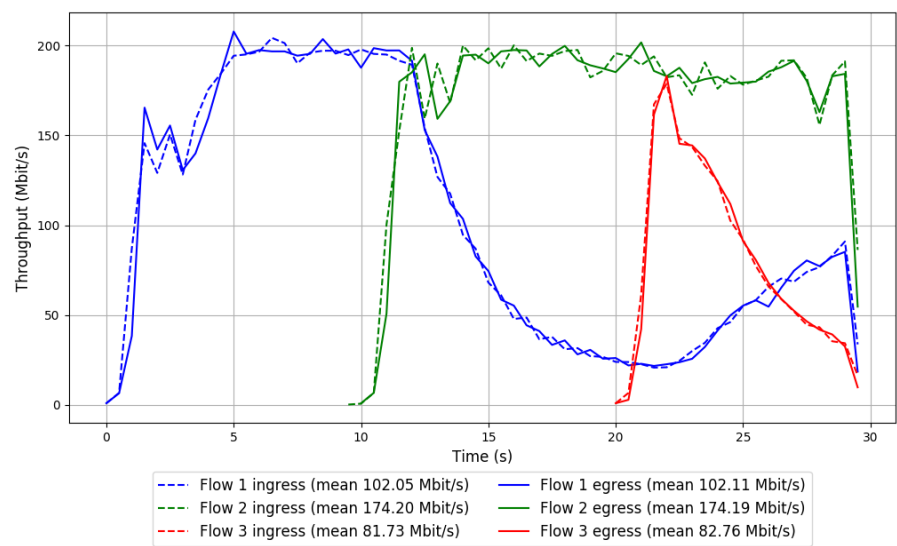


```
Run 1: Statistics of Indigo

Start at: 2017-12-05 21:11:21
End at: 2017-12-05 21:11:51

# Below is generated by plot.py at 2017-12-06 02:28:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.07 Mbit/s
95th percentile per-packet one-way delay: 87.204 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 102.11 Mbit/s
95th percentile per-packet one-way delay: 87.135 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 174.19 Mbit/s
95th percentile per-packet one-way delay: 87.246 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 87.277 ms
Loss rate: 0.83%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-05 21:24:44

End at: 2017-12-05 21:25:14

Below is generated by plot.py at 2017-12-06 02:30:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.99 Mbit/s

95th percentile per-packet one-way delay: 87.309 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 86.940 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 163.36 Mbit/s

95th percentile per-packet one-way delay: 87.639 ms

Loss rate: 0.84%

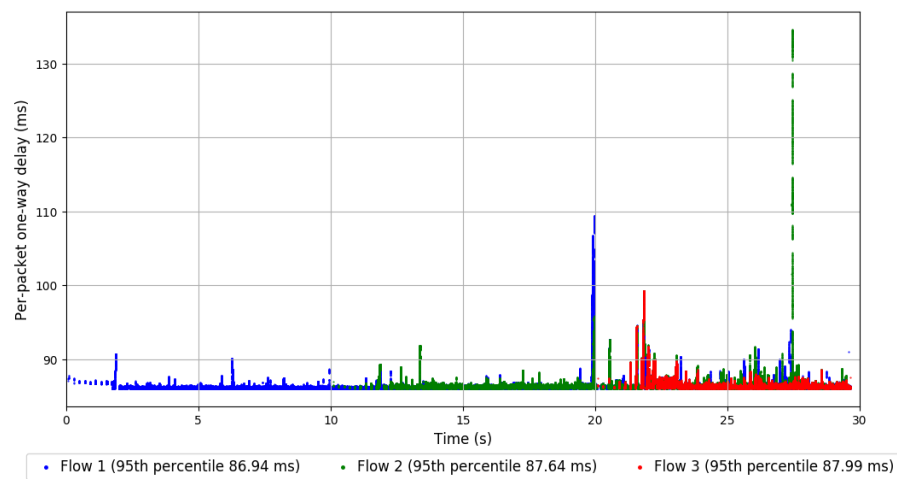
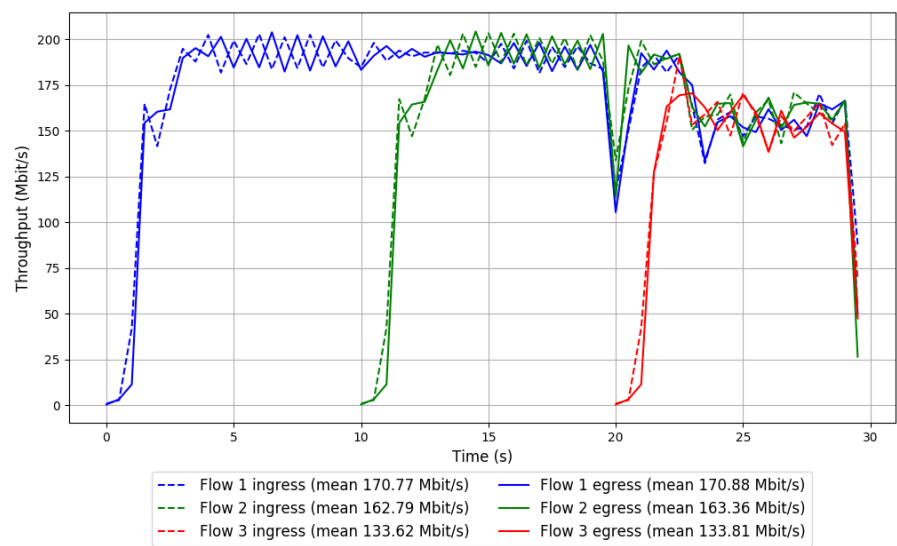
-- Flow 3:

Average throughput: 133.81 Mbit/s

95th percentile per-packet one-way delay: 87.992 ms

Loss rate: 1.94%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-05 21:38:34

End at: 2017-12-05 21:39:04

Below is generated by plot.py at 2017-12-06 02:30:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.31 Mbit/s

95th percentile per-packet one-way delay: 87.431 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 170.16 Mbit/s

95th percentile per-packet one-way delay: 87.292 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 155.36 Mbit/s

95th percentile per-packet one-way delay: 87.509 ms

Loss rate: 0.97%

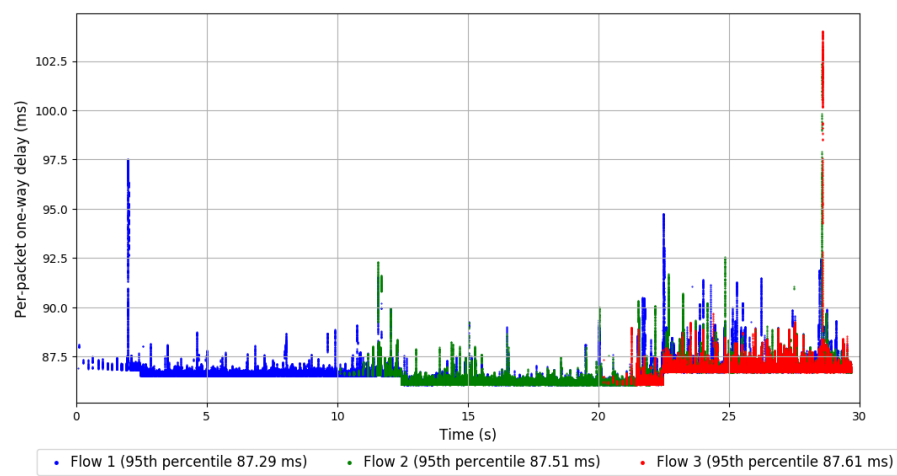
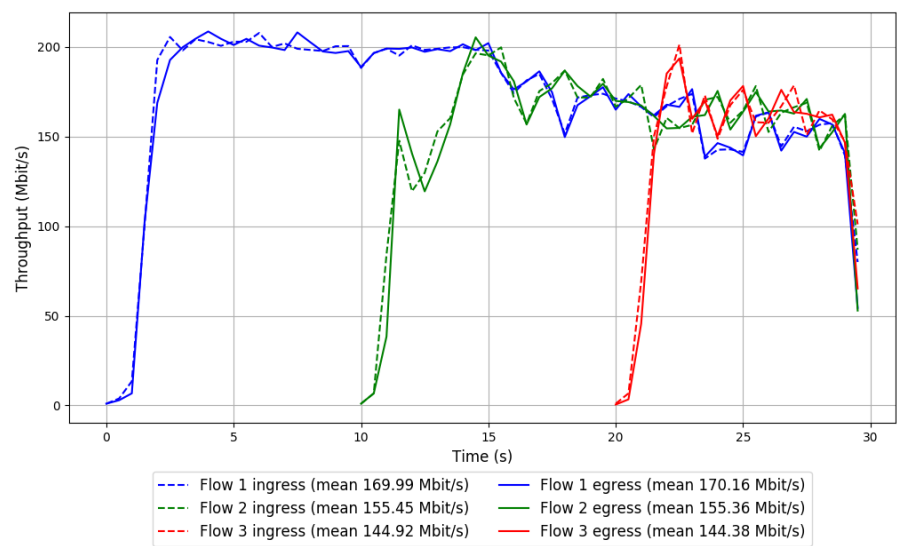
-- Flow 3:

Average throughput: 144.38 Mbit/s

95th percentile per-packet one-way delay: 87.613 ms

Loss rate: 2.25%

Run 3: Report of Indigo — Data Link

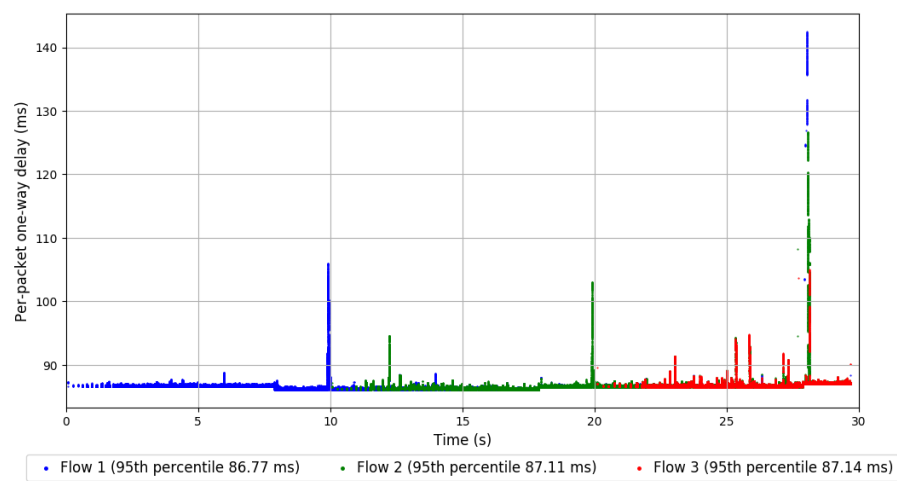
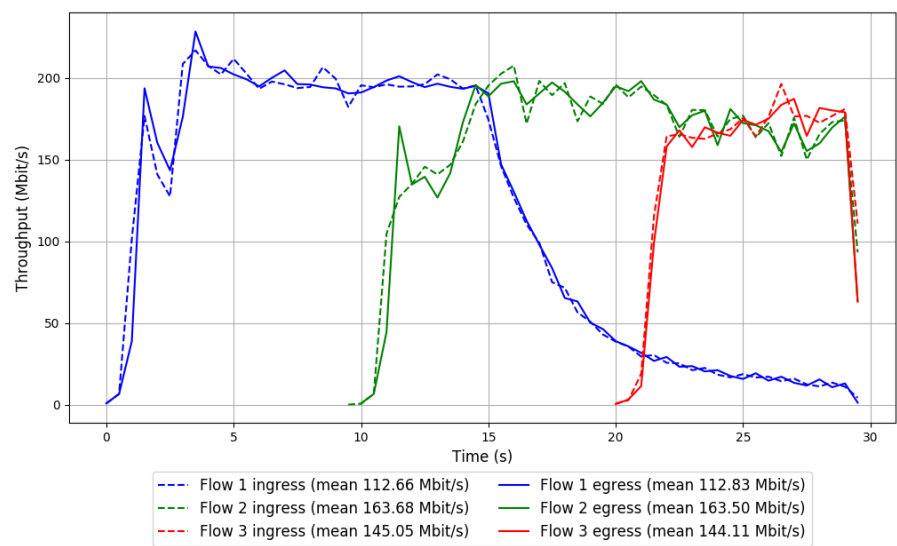


```
Run 4: Statistics of Indigo

Start at: 2017-12-05 21:52:08
End at: 2017-12-05 21:52:38

# Below is generated by plot.py at 2017-12-06 02:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.69 Mbit/s
95th percentile per-packet one-way delay: 87.079 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 112.83 Mbit/s
95th percentile per-packet one-way delay: 86.768 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 163.50 Mbit/s
95th percentile per-packet one-way delay: 87.105 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 144.11 Mbit/s
95th percentile per-packet one-way delay: 87.140 ms
Loss rate: 2.70%
```

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-05 22:06:06

End at: 2017-12-05 22:06:36

Below is generated by plot.py at 2017-12-06 02:32:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.96 Mbit/s

95th percentile per-packet one-way delay: 88.153 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 173.62 Mbit/s

95th percentile per-packet one-way delay: 87.557 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 157.31 Mbit/s

95th percentile per-packet one-way delay: 89.101 ms

Loss rate: 1.05%

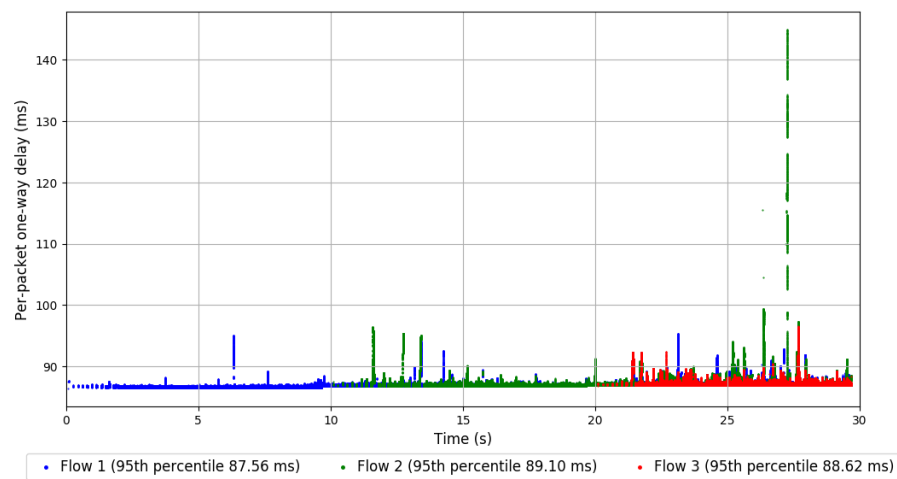
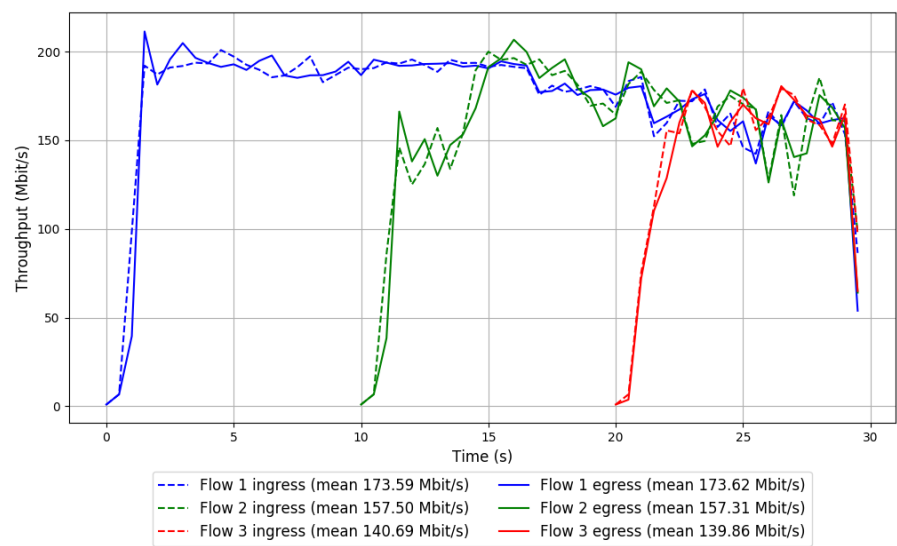
-- Flow 3:

Average throughput: 139.86 Mbit/s

95th percentile per-packet one-way delay: 88.624 ms

Loss rate: 2.35%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-05 22:19:30

End at: 2017-12-05 22:20:00

Below is generated by plot.py at 2017-12-06 02:32:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.93 Mbit/s

95th percentile per-packet one-way delay: 87.420 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 170.76 Mbit/s

95th percentile per-packet one-way delay: 87.204 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 152.51 Mbit/s

95th percentile per-packet one-way delay: 87.709 ms

Loss rate: 1.06%

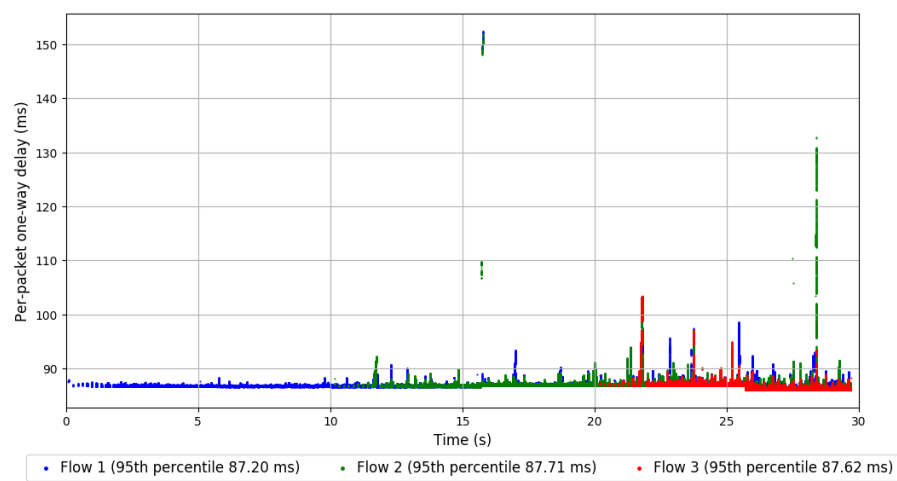
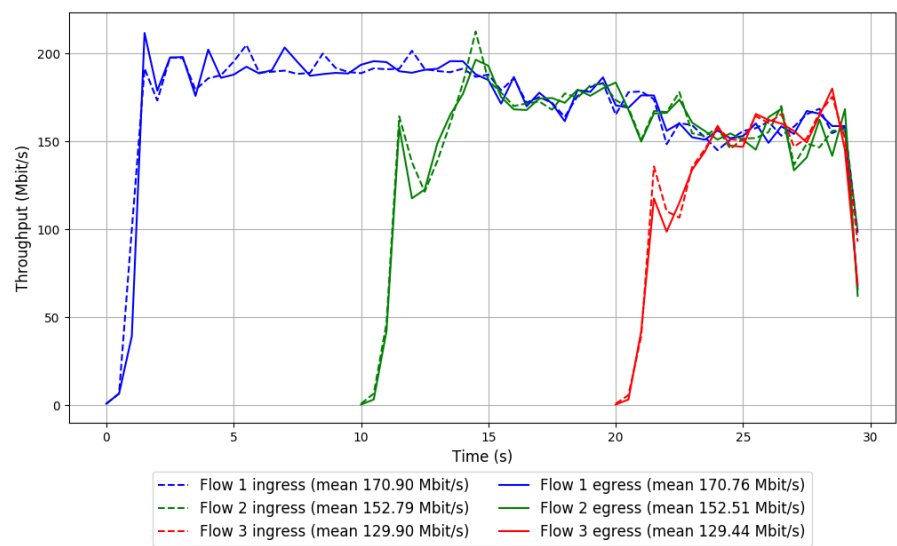
-- Flow 3:

Average throughput: 129.44 Mbit/s

95th percentile per-packet one-way delay: 87.618 ms

Loss rate: 2.13%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-05 22:32:52

End at: 2017-12-05 22:33:22

Below is generated by plot.py at 2017-12-06 02:32:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.62 Mbit/s

95th percentile per-packet one-way delay: 87.167 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 170.66 Mbit/s

95th percentile per-packet one-way delay: 87.030 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 154.29 Mbit/s

95th percentile per-packet one-way delay: 87.424 ms

Loss rate: 0.89%

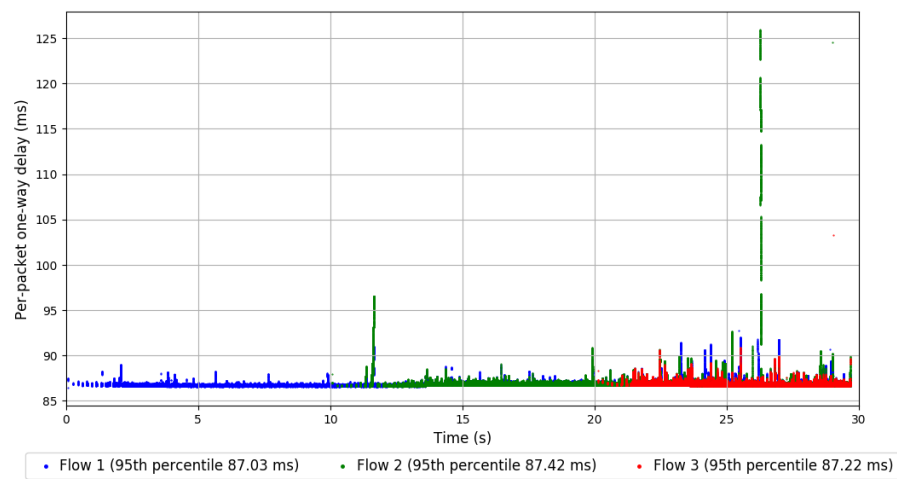
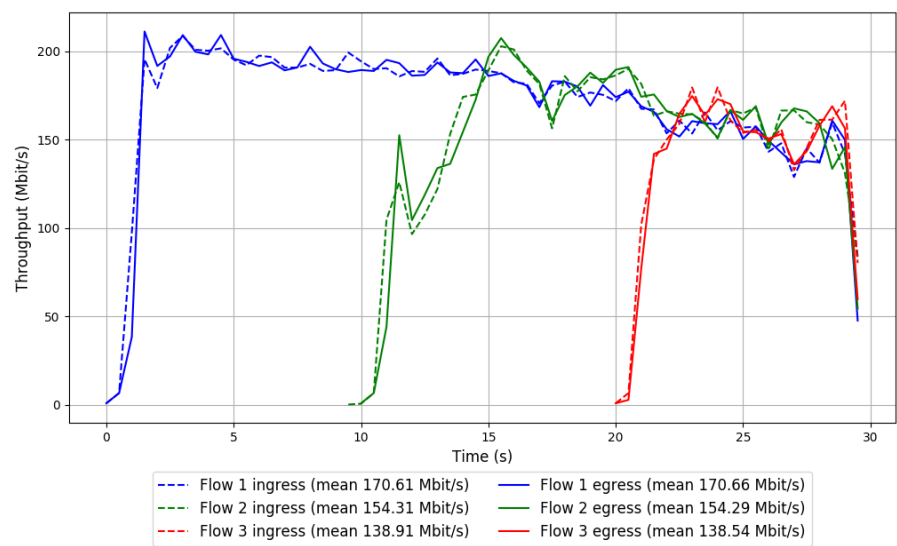
-- Flow 3:

Average throughput: 138.54 Mbit/s

95th percentile per-packet one-way delay: 87.218 ms

Loss rate: 2.05%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-05 22:46:12

End at: 2017-12-05 22:46:42

Below is generated by plot.py at 2017-12-06 02:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.69 Mbit/s

95th percentile per-packet one-way delay: 87.769 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 168.32 Mbit/s

95th percentile per-packet one-way delay: 87.422 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 163.25 Mbit/s

95th percentile per-packet one-way delay: 88.026 ms

Loss rate: 0.81%

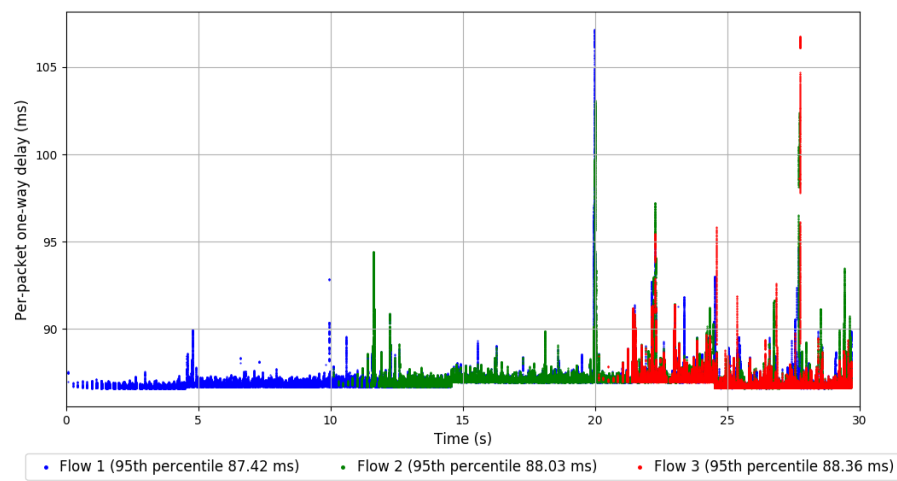
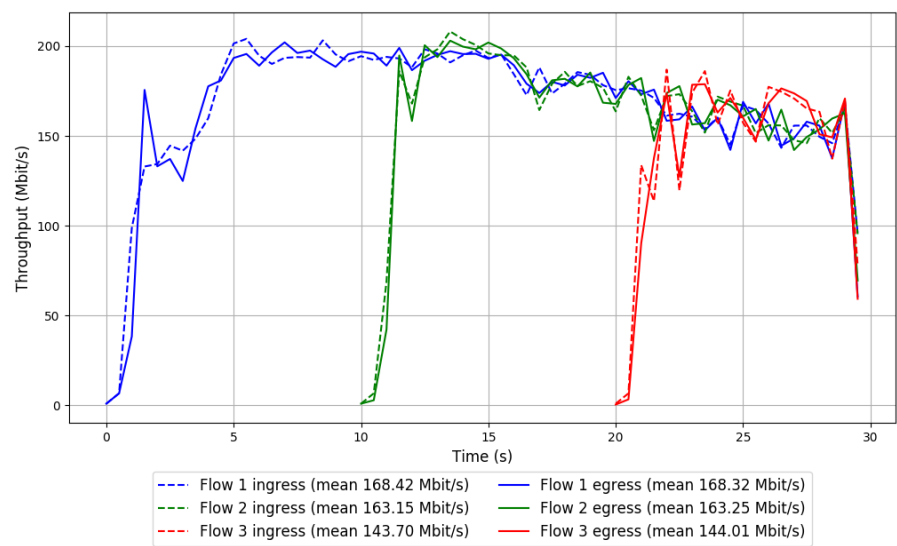
-- Flow 3:

Average throughput: 144.01 Mbit/s

95th percentile per-packet one-way delay: 88.356 ms

Loss rate: 1.56%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-05 22:59:28

End at: 2017-12-05 22:59:58

Below is generated by plot.py at 2017-12-06 02:34:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.27 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 168.95 Mbit/s

95th percentile per-packet one-way delay: 87.040 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 156.82 Mbit/s

95th percentile per-packet one-way delay: 87.567 ms

Loss rate: 0.78%

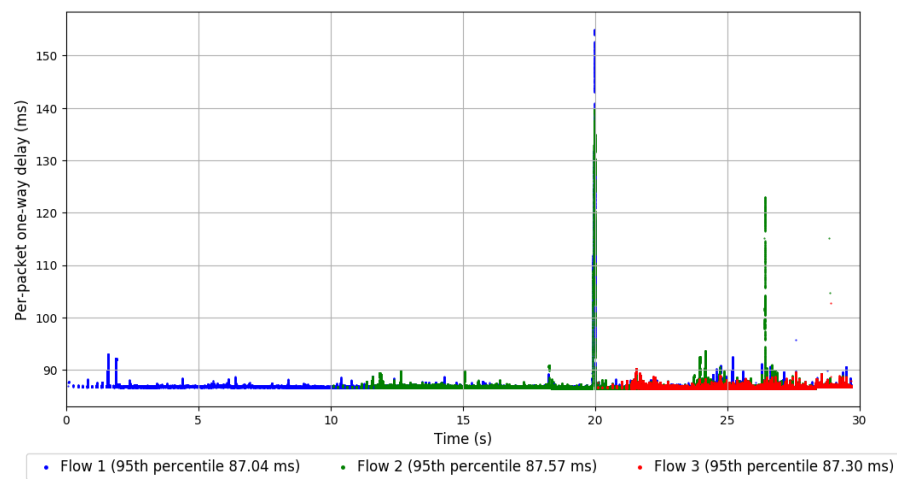
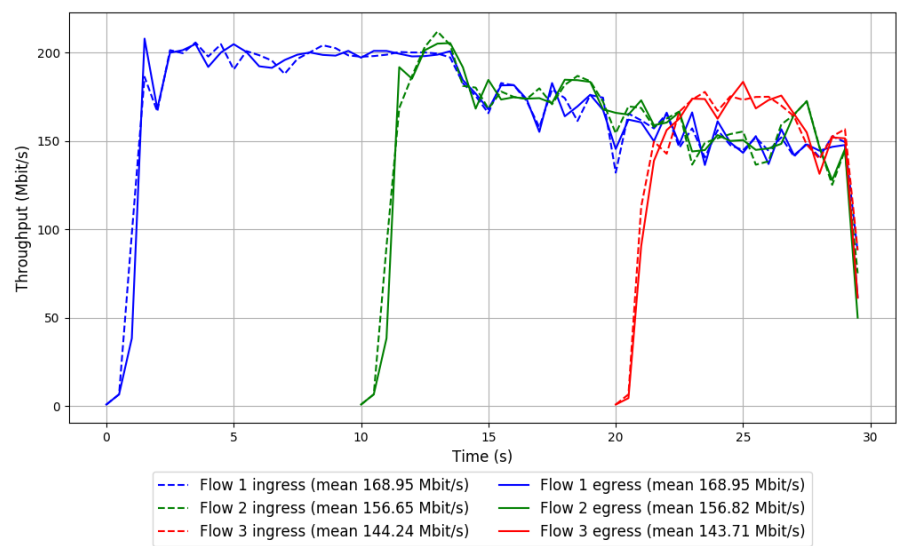
-- Flow 3:

Average throughput: 143.71 Mbit/s

95th percentile per-packet one-way delay: 87.300 ms

Loss rate: 2.14%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-05 23:13:07

End at: 2017-12-05 23:13:37

Below is generated by plot.py at 2017-12-06 02:35:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.69 Mbit/s

95th percentile per-packet one-way delay: 87.659 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 169.65 Mbit/s

95th percentile per-packet one-way delay: 87.215 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 160.85 Mbit/s

95th percentile per-packet one-way delay: 88.226 ms

Loss rate: 1.02%

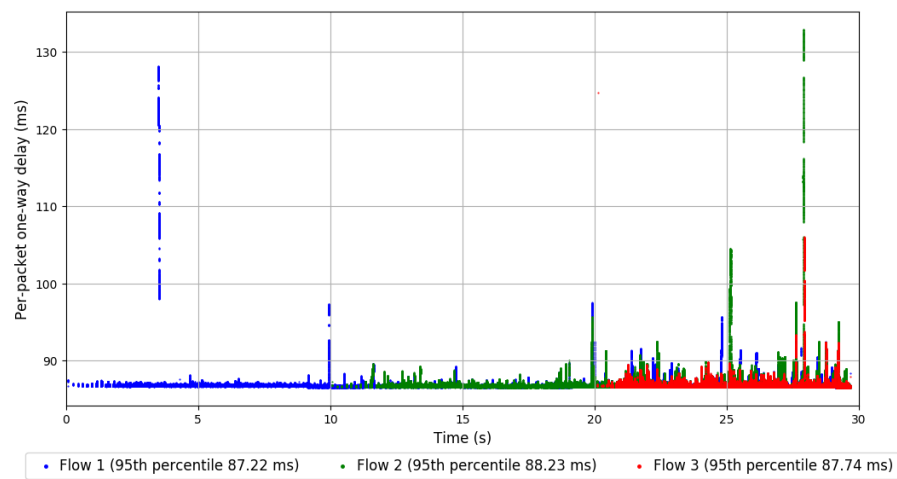
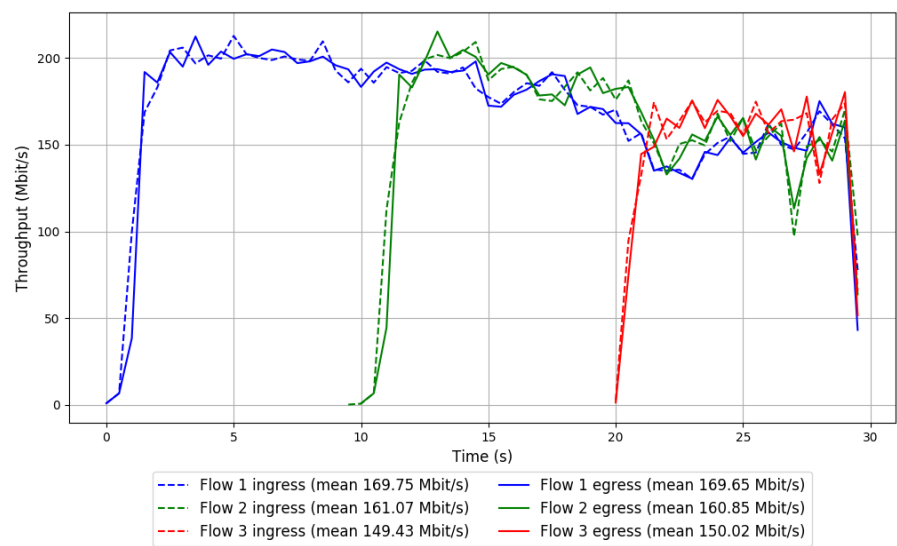
-- Flow 3:

Average throughput: 150.02 Mbit/s

95th percentile per-packet one-way delay: 87.739 ms

Loss rate: 1.39%

Run 10: Report of Indigo — Data Link

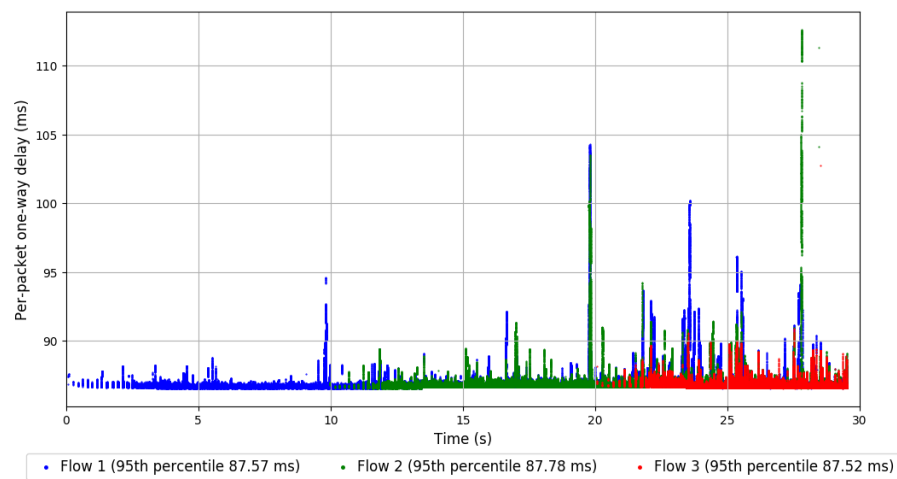
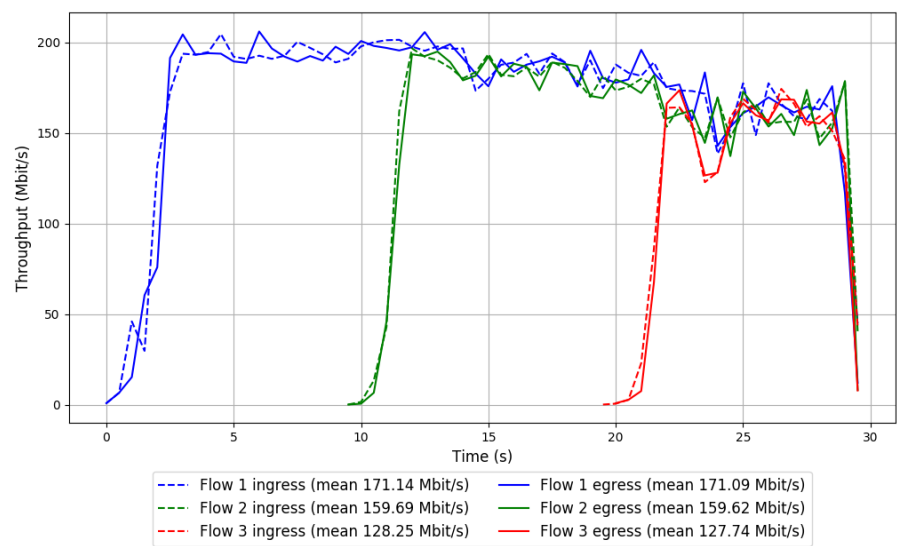


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 21:19:32
End at: 2017-12-05 21:20:02

# Below is generated by plot.py at 2017-12-06 02:35:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.07 Mbit/s
95th percentile per-packet one-way delay: 87.635 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 171.09 Mbit/s
95th percentile per-packet one-way delay: 87.574 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 159.62 Mbit/s
95th percentile per-packet one-way delay: 87.782 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 127.74 Mbit/s
95th percentile per-packet one-way delay: 87.518 ms
Loss rate: 2.49%
```

Run 1: Report of Indigo-calib — Data Link

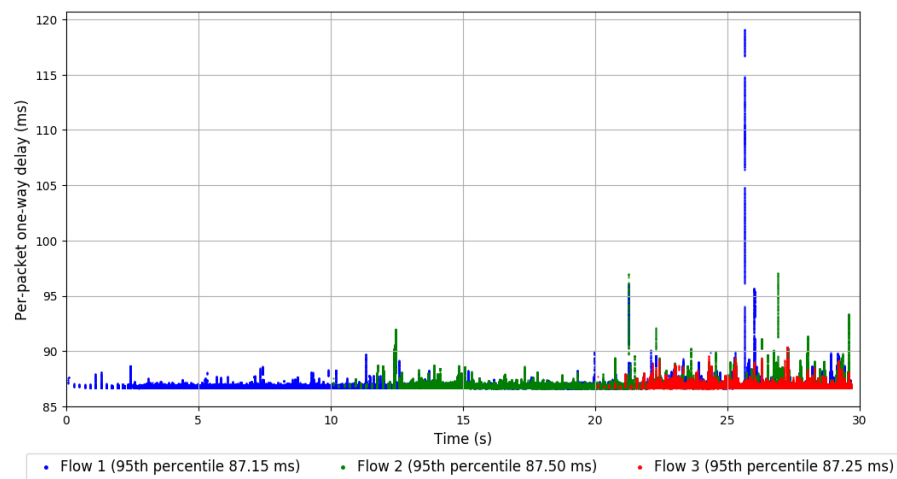
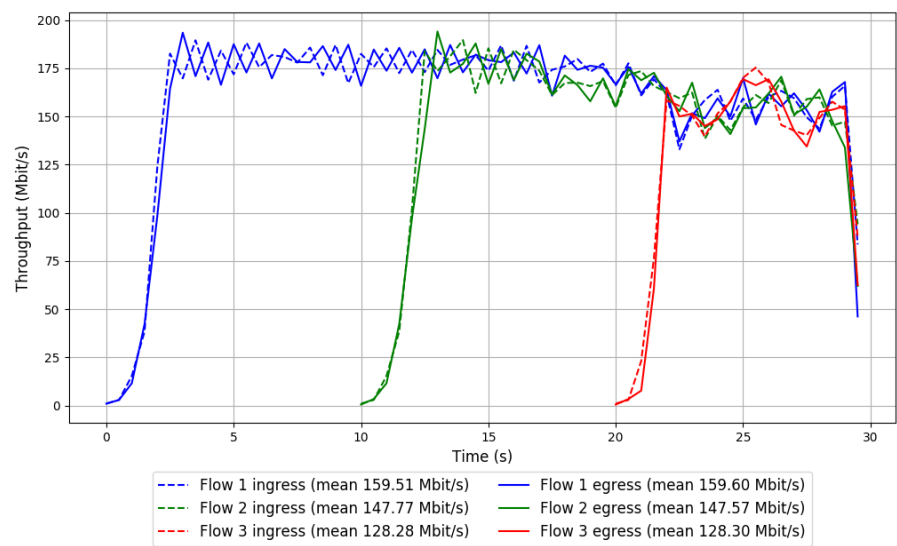


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 21:33:11
End at: 2017-12-05 21:33:41

# Below is generated by plot.py at 2017-12-06 02:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.70 Mbit/s
95th percentile per-packet one-way delay: 87.277 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 159.60 Mbit/s
95th percentile per-packet one-way delay: 87.154 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 147.57 Mbit/s
95th percentile per-packet one-way delay: 87.505 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 128.30 Mbit/s
95th percentile per-packet one-way delay: 87.252 ms
Loss rate: 2.10%
```

Run 2: Report of Indigo-calib — Data Link

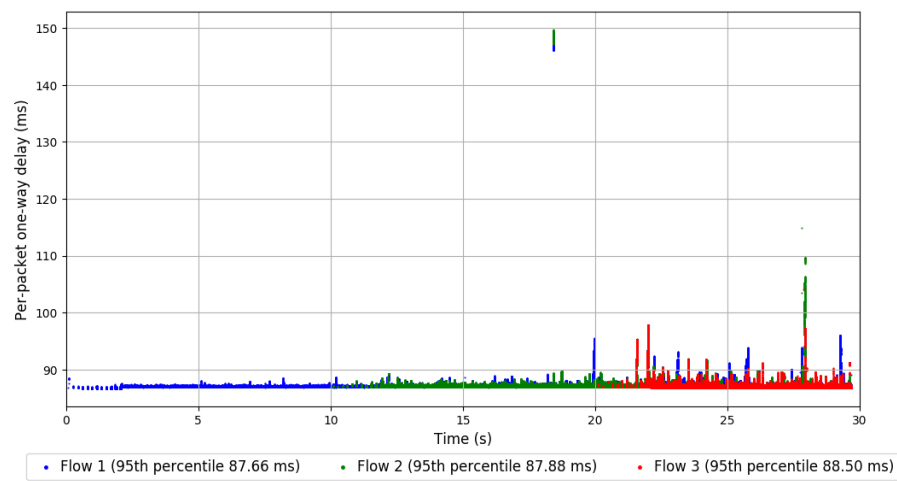
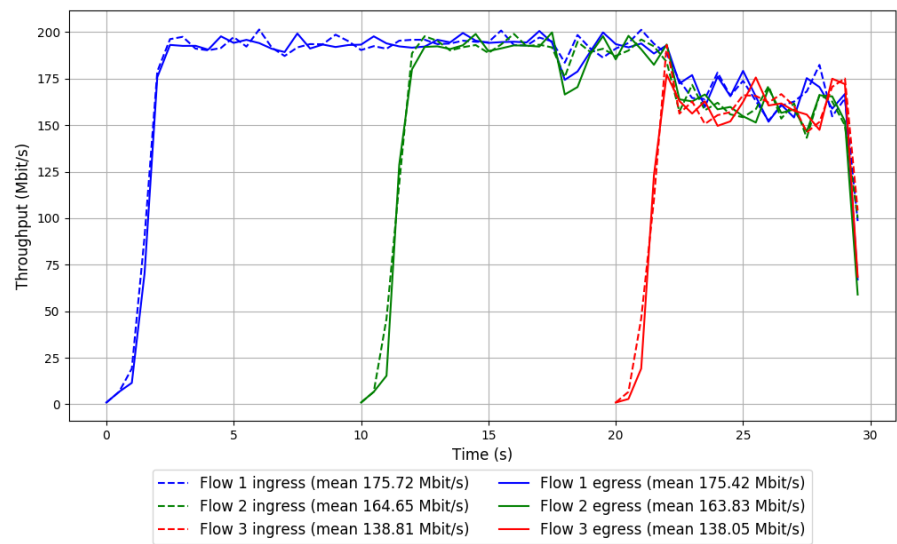


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-05 21:47:04
End at: 2017-12-05 21:47:34

# Below is generated by plot.py at 2017-12-06 02:37:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.51 Mbit/s
95th percentile per-packet one-way delay: 87.848 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 175.42 Mbit/s
95th percentile per-packet one-way delay: 87.656 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 163.83 Mbit/s
95th percentile per-packet one-way delay: 87.877 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 138.05 Mbit/s
95th percentile per-packet one-way delay: 88.503 ms
Loss rate: 2.35%
```


Run 3: Report of Indigo-calib — Data Link

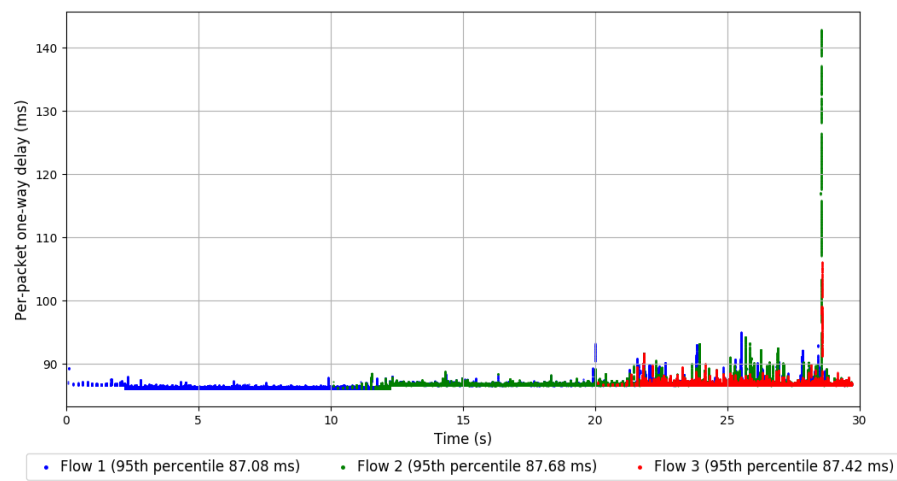
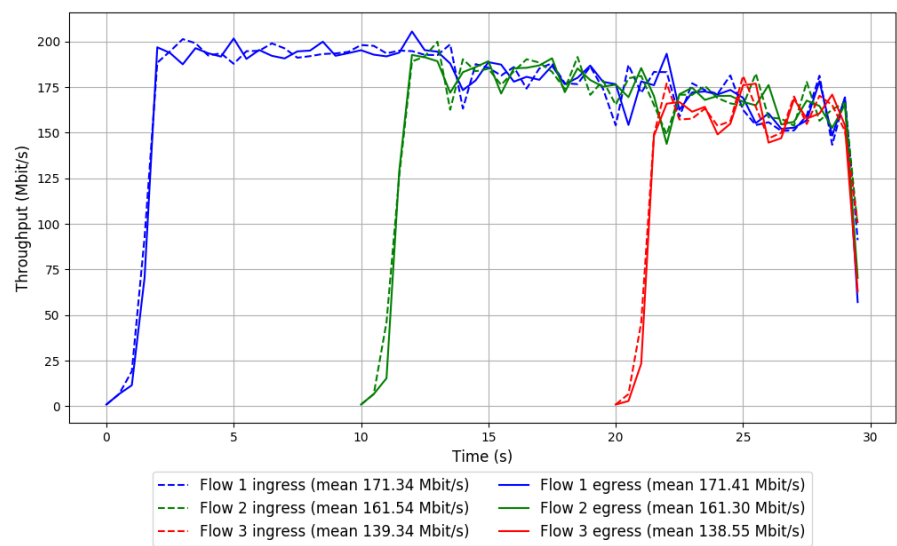


```
Run 4: Statistics of Indigo-calib

Start at: 2017-12-05 22:00:44
End at: 2017-12-05 22:01:14

# Below is generated by plot.py at 2017-12-06 02:37:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.04 Mbit/s
95th percentile per-packet one-way delay: 87.310 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 171.41 Mbit/s
95th percentile per-packet one-way delay: 87.080 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 161.30 Mbit/s
95th percentile per-packet one-way delay: 87.680 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 138.55 Mbit/s
95th percentile per-packet one-way delay: 87.418 ms
Loss rate: 2.36%
```

Run 4: Report of Indigo-calib — Data Link

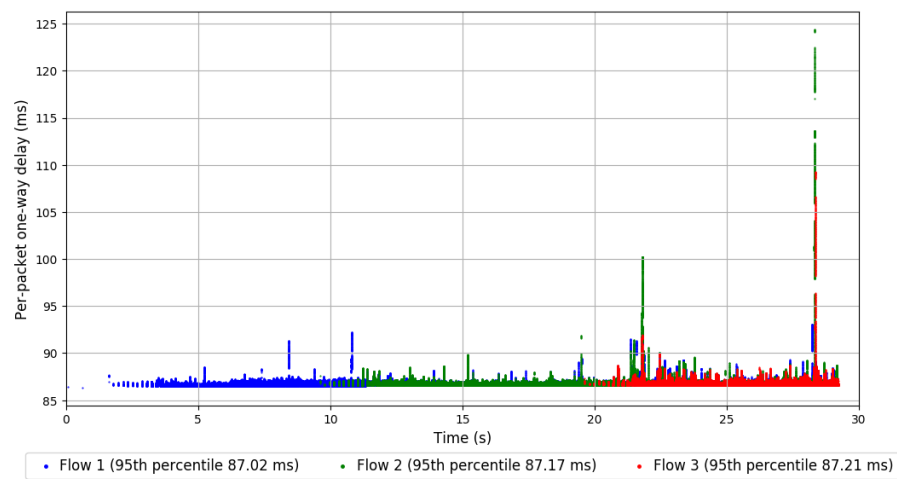
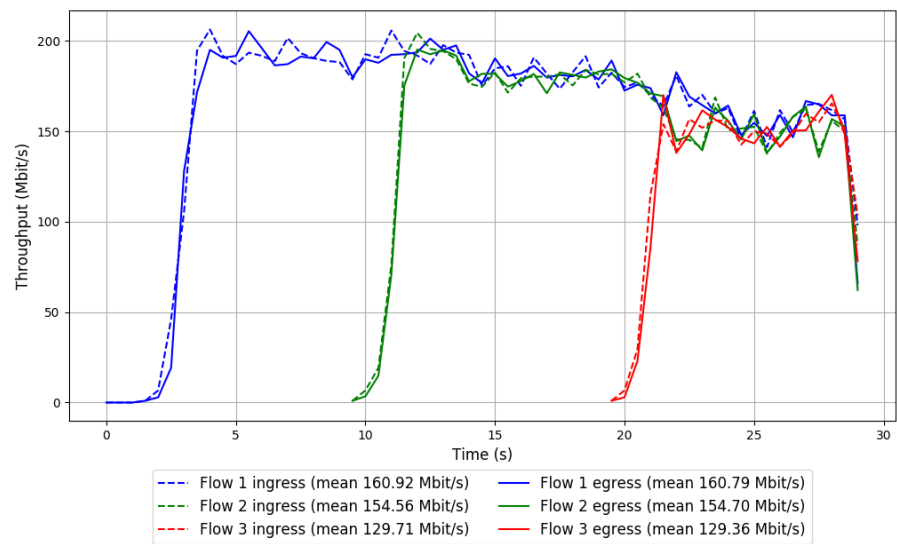


```
Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 22:14:24
End at: 2017-12-05 22:14:54

# Below is generated by plot.py at 2017-12-06 02:37:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.46 Mbit/s
95th percentile per-packet one-way delay: 87.087 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 160.79 Mbit/s
95th percentile per-packet one-way delay: 87.017 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 154.70 Mbit/s
95th percentile per-packet one-way delay: 87.167 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 129.36 Mbit/s
95th percentile per-packet one-way delay: 87.208 ms
Loss rate: 2.04%
```

Run 5: Report of Indigo-calib — Data Link

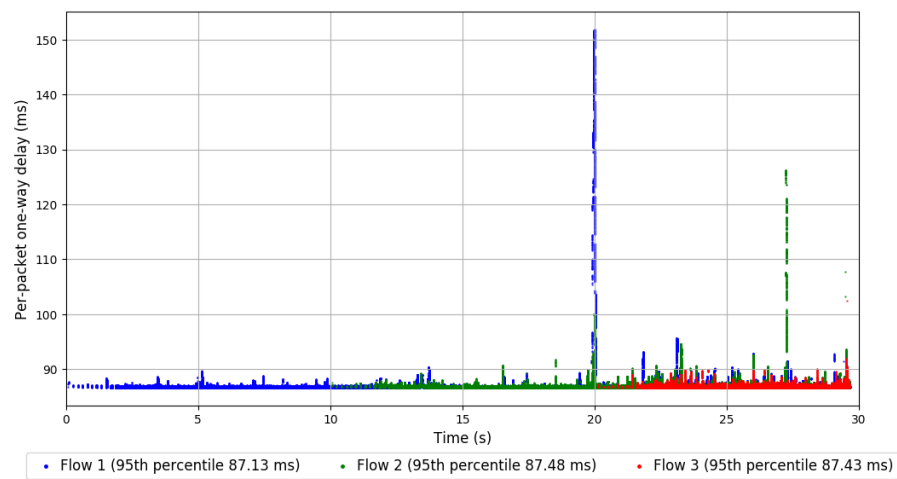
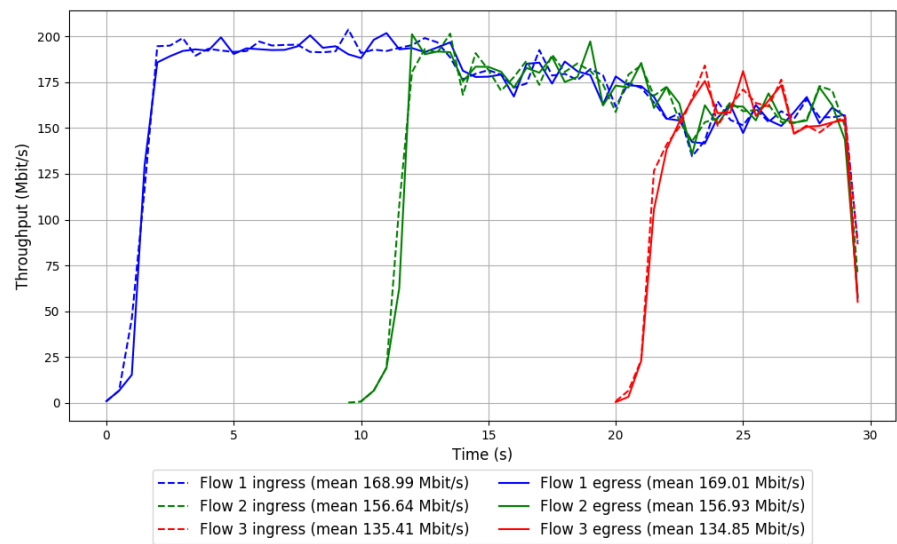


```
Run 6: Statistics of Indigo-calib

Start at: 2017-12-05 22:27:41
End at: 2017-12-05 22:28:11

# Below is generated by plot.py at 2017-12-06 02:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.25 Mbit/s
95th percentile per-packet one-way delay: 87.289 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 169.01 Mbit/s
95th percentile per-packet one-way delay: 87.128 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 156.93 Mbit/s
95th percentile per-packet one-way delay: 87.480 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 134.85 Mbit/s
95th percentile per-packet one-way delay: 87.426 ms
Loss rate: 2.20%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-05 22:41:02

End at: 2017-12-05 22:41:32

Below is generated by plot.py at 2017-12-06 02:38:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.22 Mbit/s

95th percentile per-packet one-way delay: 87.699 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 176.35 Mbit/s

95th percentile per-packet one-way delay: 87.377 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 168.01 Mbit/s

95th percentile per-packet one-way delay: 87.792 ms

Loss rate: 0.80%

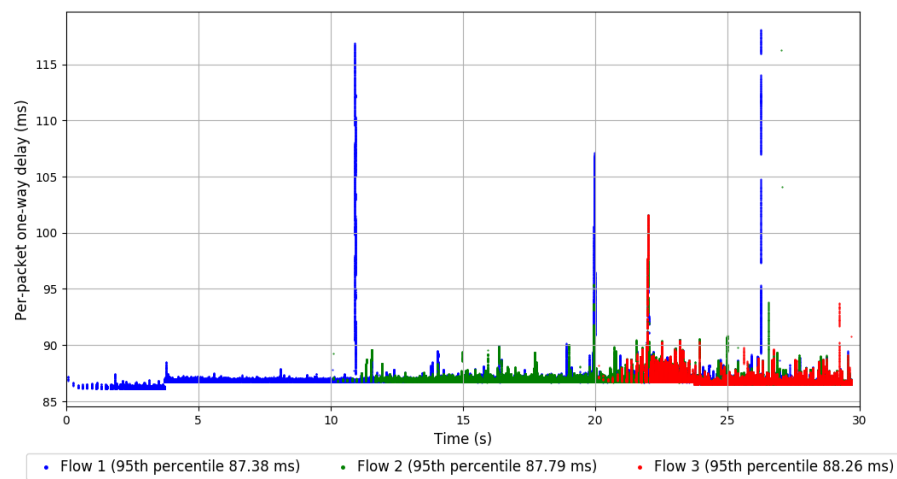
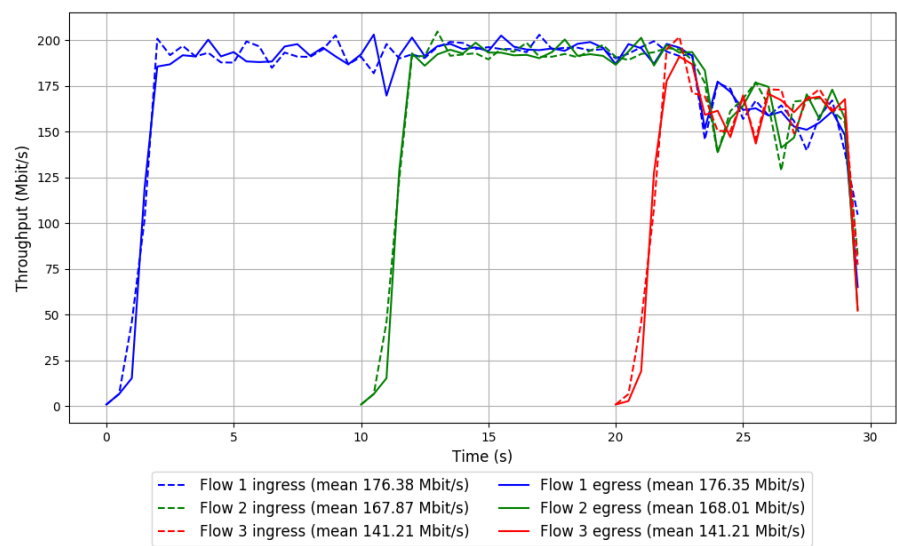
-- Flow 3:

Average throughput: 141.21 Mbit/s

95th percentile per-packet one-way delay: 88.260 ms

Loss rate: 1.76%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-05 22:54:25

End at: 2017-12-05 22:54:55

Below is generated by plot.py at 2017-12-06 02:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.11 Mbit/s

95th percentile per-packet one-way delay: 87.107 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 172.65 Mbit/s

95th percentile per-packet one-way delay: 86.999 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 164.92 Mbit/s

95th percentile per-packet one-way delay: 87.211 ms

Loss rate: 0.96%

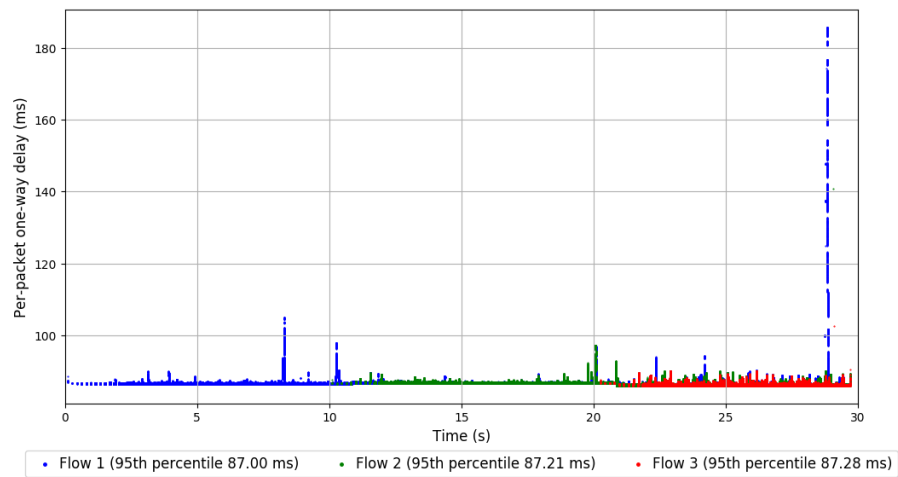
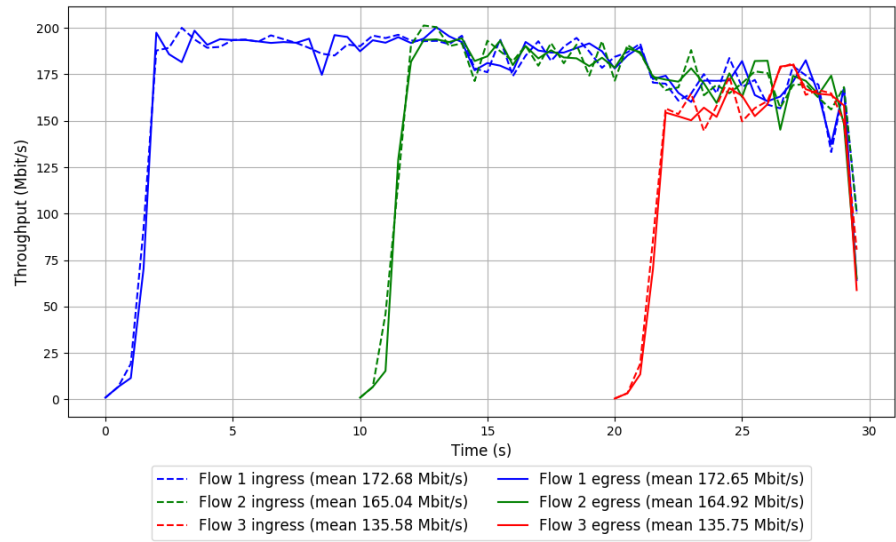
-- Flow 3:

Average throughput: 135.75 Mbit/s

95th percentile per-packet one-way delay: 87.280 ms

Loss rate: 1.69%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-05 23:08:00

End at: 2017-12-05 23:08:30

Below is generated by plot.py at 2017-12-06 02:39:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.15 Mbit/s

95th percentile per-packet one-way delay: 87.298 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 167.03 Mbit/s

95th percentile per-packet one-way delay: 87.055 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 156.18 Mbit/s

95th percentile per-packet one-way delay: 87.467 ms

Loss rate: 2.16%

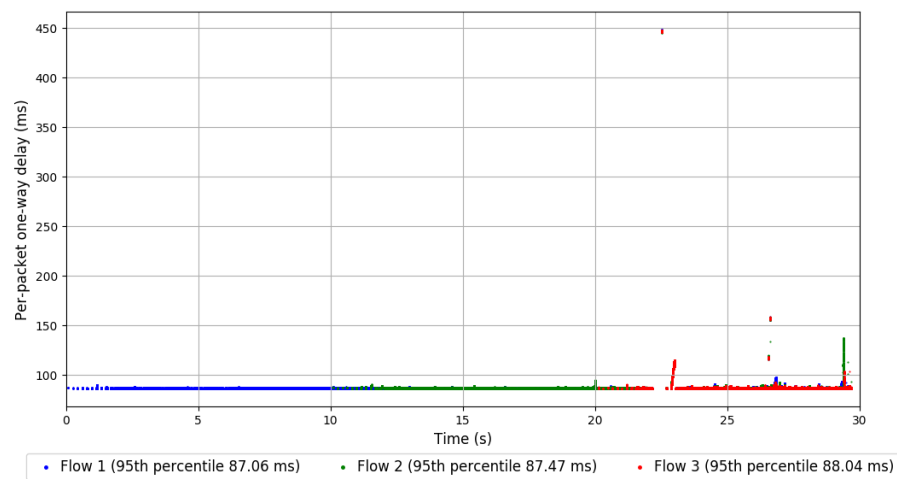
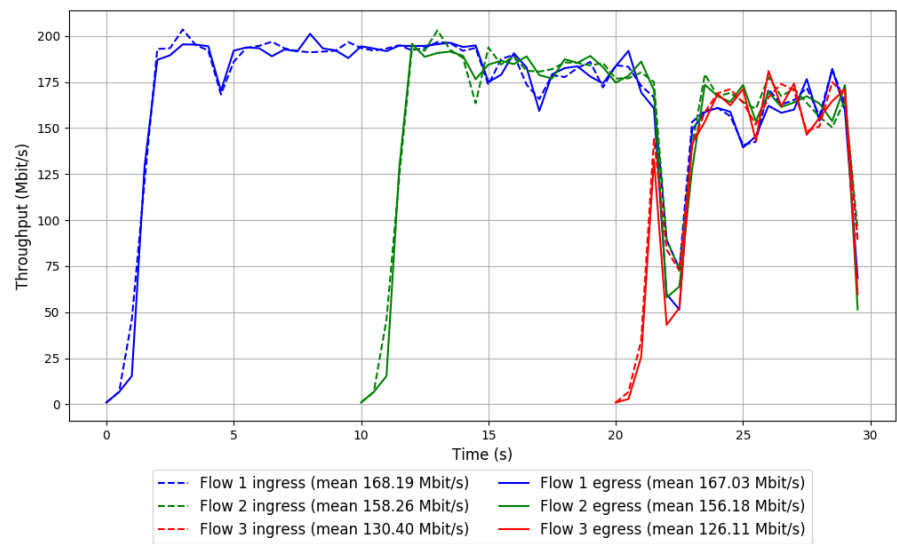
-- Flow 3:

Average throughput: 126.11 Mbit/s

95th percentile per-packet one-way delay: 88.038 ms

Loss rate: 5.02%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-05 23:21:19

End at: 2017-12-05 23:21:49

Below is generated by plot.py at 2017-12-06 02:39:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.09 Mbit/s

95th percentile per-packet one-way delay: 88.132 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 165.28 Mbit/s

95th percentile per-packet one-way delay: 87.725 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 165.98 Mbit/s

95th percentile per-packet one-way delay: 88.950 ms

Loss rate: 0.87%

-- Flow 3:

Average throughput: 143.82 Mbit/s

95th percentile per-packet one-way delay: 87.843 ms

Loss rate: 1.84%

Run 10: Report of Indigo-calib — Data Link

