

Pantheon Report

Generated at 2017-12-01 01:28:39 (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.

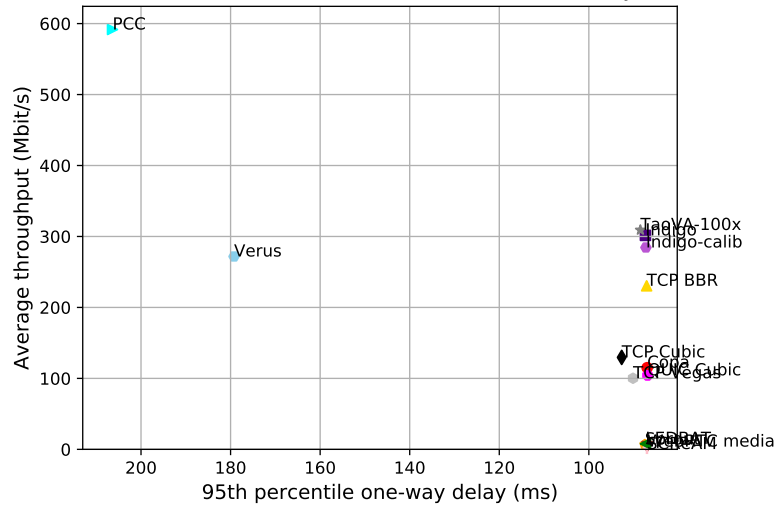
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

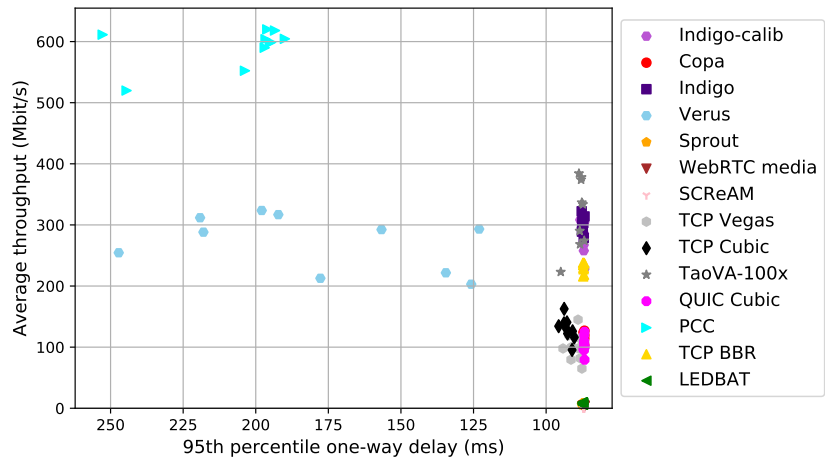
Git summary:

```
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	121.34	113.28	103.80	87.05	87.02	87.47	0.66	1.04	2.28
TCP Cubic	9	66.91	61.85	66.32	91.52	92.81	91.96	0.69	1.04	2.46
LEDBAT	10	4.21	4.21	2.42	87.41	87.34	87.21	1.29	1.57	4.15
PCC	10	525.62	84.22	31.58	209.11	199.29	195.96	2.84	2.48	3.92
QUIC Cubic	10	57.94	51.72	37.08	86.90	86.74	86.71	0.70	0.79	2.52
SCReAM	10	0.22	0.22	0.22	86.96	86.94	86.74	0.62	1.03	1.85
WebRTC media	10	2.12	1.30	0.48	86.95	86.83	86.84	0.87	1.35	3.62
Sprout	9	3.60	3.50	2.89	87.52	87.43	87.39	0.79	1.31	3.42
TaoVA-100x	10	147.95	188.70	145.80	88.13	87.82	90.89	0.71	0.89	3.32
TCP Vegas	9	50.36	50.45	50.08	88.70	89.42	91.75	0.51	0.84	1.66
Verus	10	177.41	103.82	81.73	172.73	160.96	157.80	0.99	1.50	3.70
Copa	10	66.00	59.36	39.92	86.97	86.89	86.96	0.43	0.85	3.61
Indigo	10	163.17	148.61	124.06	87.16	87.66	87.47	0.61	0.93	2.31
Indigo-calib	10	148.78	145.13	115.28	87.15	87.36	87.48	0.59	0.89	2.08

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 20:04:34

End at: 2017-11-30 20:05:04

Below is generated by plot.py at 2017-12-01 00:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.55 Mbit/s

95th percentile per-packet one-way delay: 87.116 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 120.09 Mbit/s

95th percentile per-packet one-way delay: 87.037 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 118.00 Mbit/s

95th percentile per-packet one-way delay: 87.069 ms

Loss rate: 0.92%

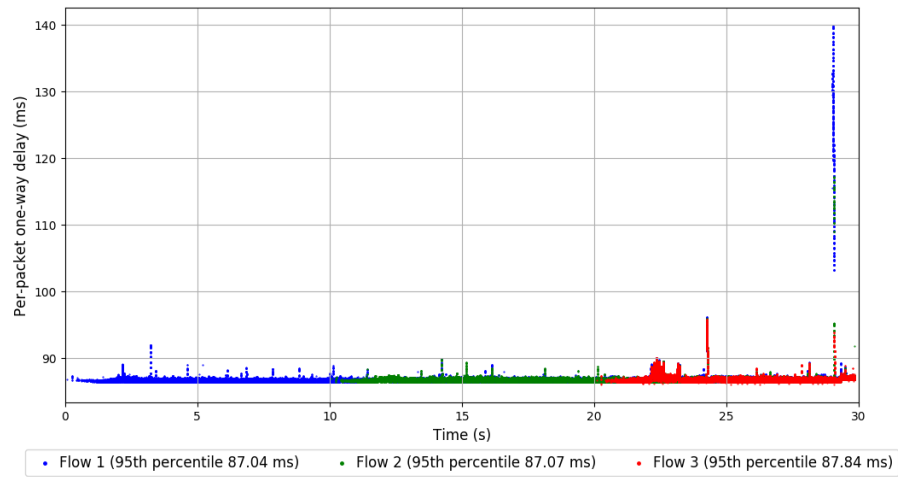
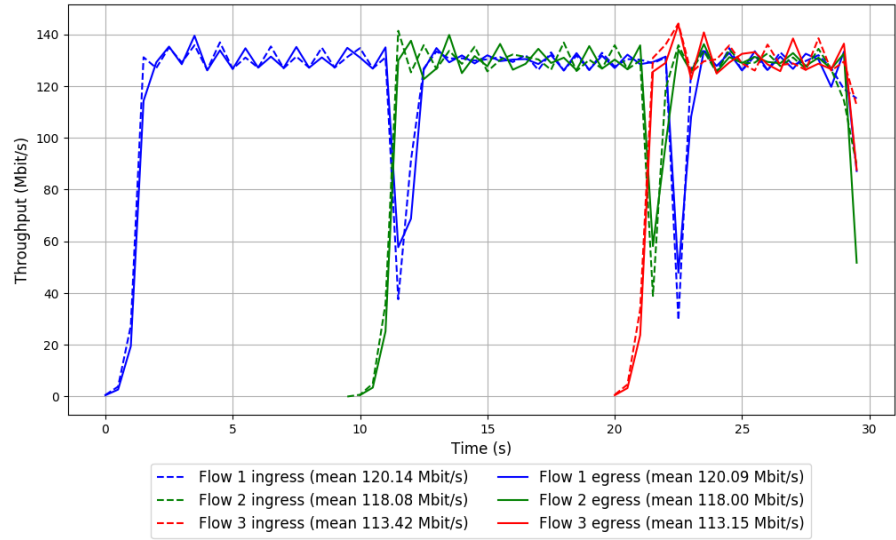
-- Flow 3:

Average throughput: 113.15 Mbit/s

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

Loss rate: 1.98%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 20:17:50

End at: 2017-11-30 20:18:20

Below is generated by plot.py at 2017-12-01 00:33:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.36 Mbit/s

95th percentile per-packet one-way delay: 87.238 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 119.54 Mbit/s

95th percentile per-packet one-way delay: 87.108 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 118.57 Mbit/s

95th percentile per-packet one-way delay: 87.201 ms

Loss rate: 0.98%

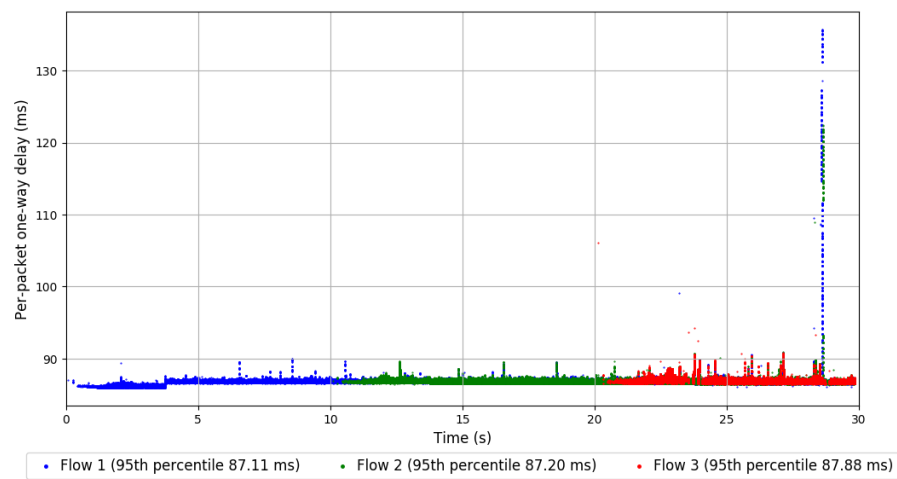
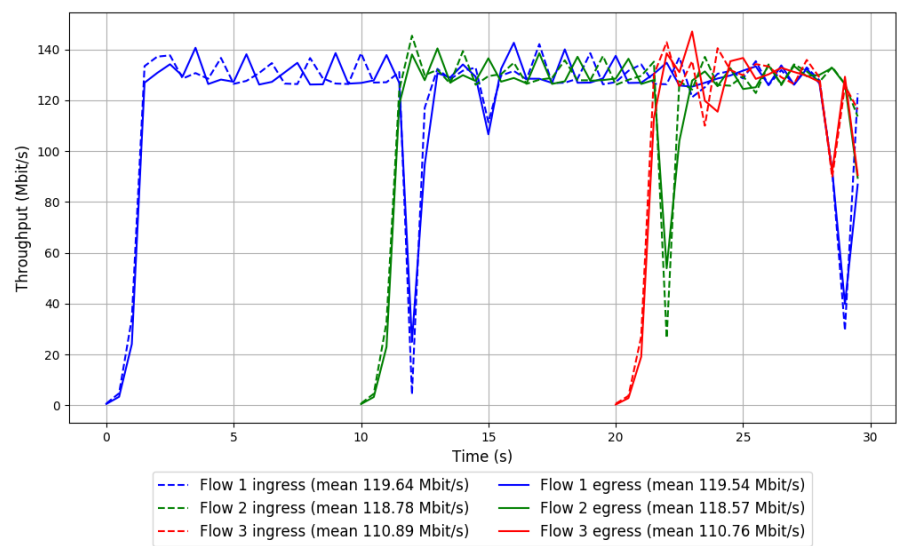
-- Flow 3:

Average throughput: 110.76 Mbit/s

95th percentile per-packet one-way delay: 87.884 ms

Loss rate: 2.11%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 20:30:52

End at: 2017-11-30 20:31:22

Below is generated by plot.py at 2017-12-01 00:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.82 Mbit/s

95th percentile per-packet one-way delay: 86.944 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 120.80 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 120.48 Mbit/s

95th percentile per-packet one-way delay: 86.866 ms

Loss rate: 1.01%

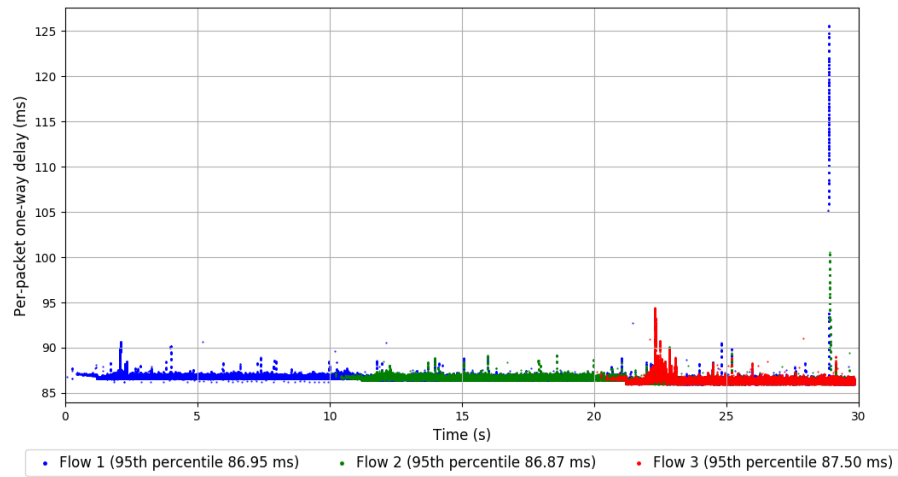
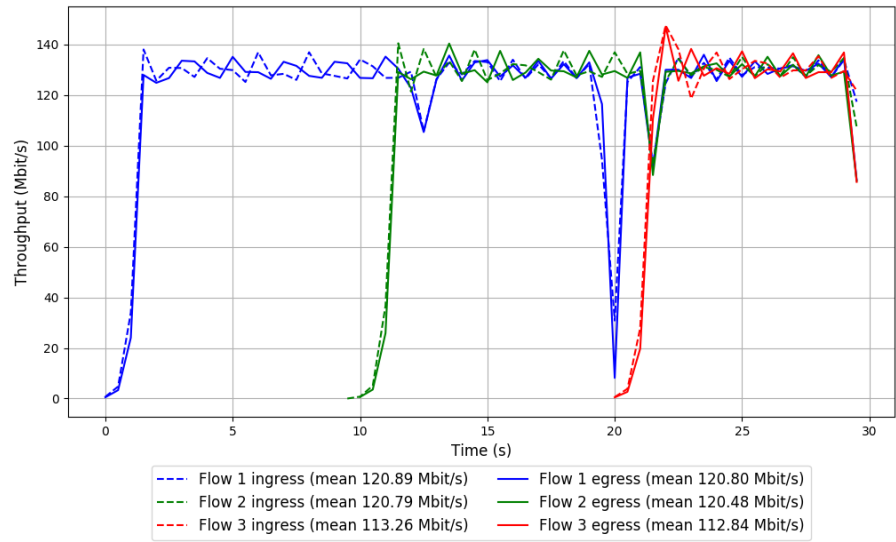
-- Flow 3:

Average throughput: 112.84 Mbit/s

95th percentile per-packet one-way delay: 87.499 ms

Loss rate: 2.37%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 20:44:22

End at: 2017-11-30 20:44:52

Below is generated by plot.py at 2017-12-01 00:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.56 Mbit/s

95th percentile per-packet one-way delay: 86.957 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 122.21 Mbit/s

95th percentile per-packet one-way delay: 86.942 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 99.29 Mbit/s

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

Loss rate: 1.10%

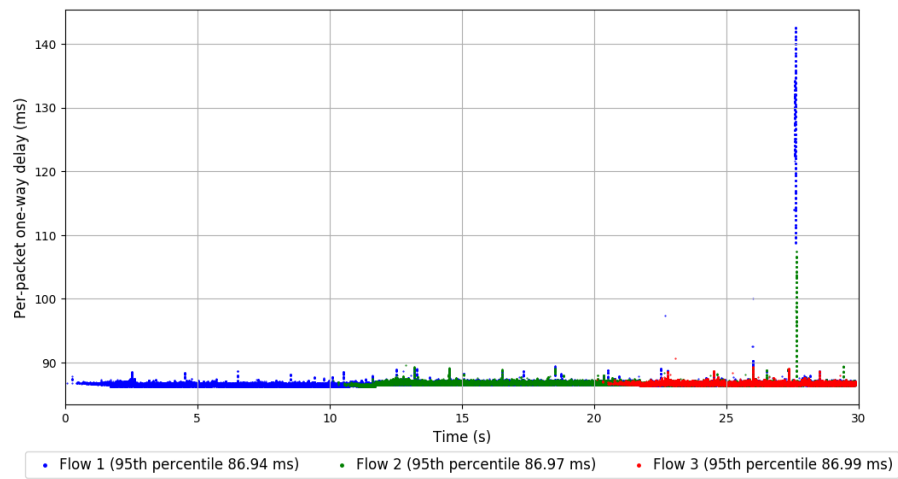
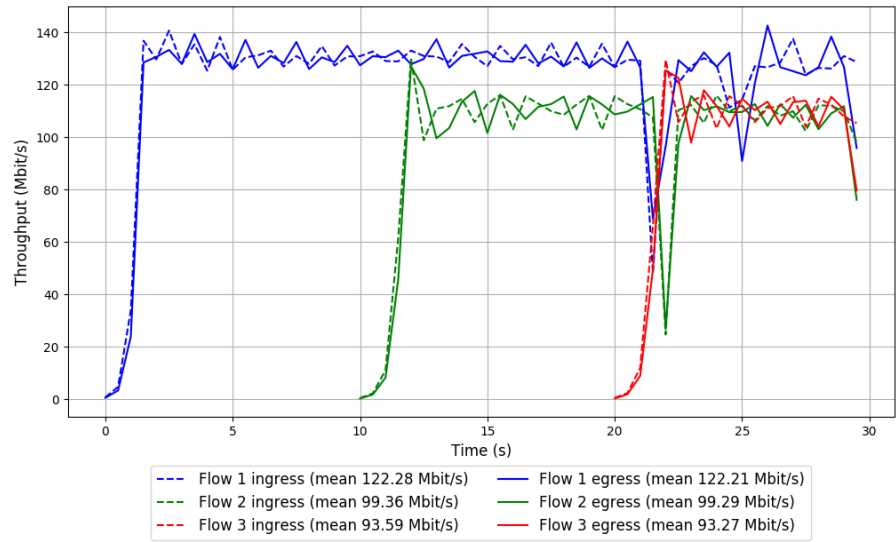
-- Flow 3:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 86.986 ms

Loss rate: 2.39%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 20:57:43

End at: 2017-11-30 20:58:13

Below is generated by plot.py at 2017-12-01 00:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.45 Mbit/s

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

Loss rate: 0.87%

-- Flow 1:

Average throughput: 124.10 Mbit/s

95th percentile per-packet one-way delay: 86.988 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 101.04 Mbit/s

95th percentile per-packet one-way delay: 86.926 ms

Loss rate: 1.10%

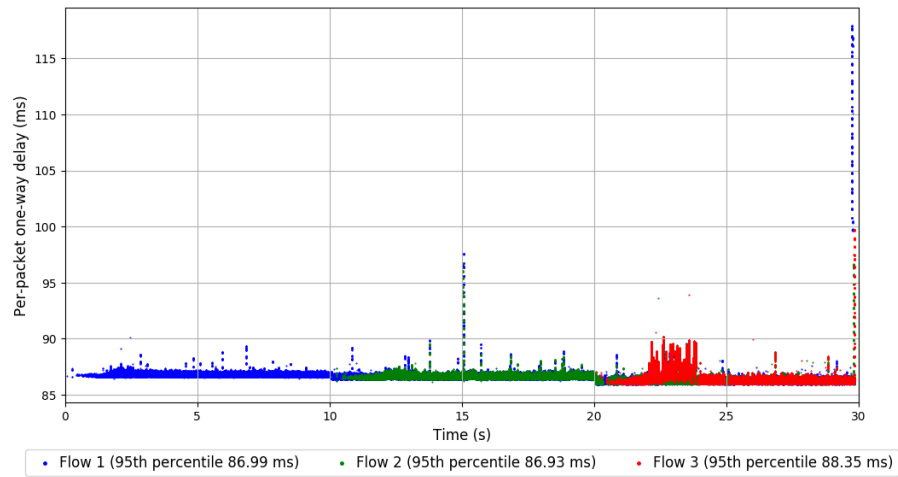
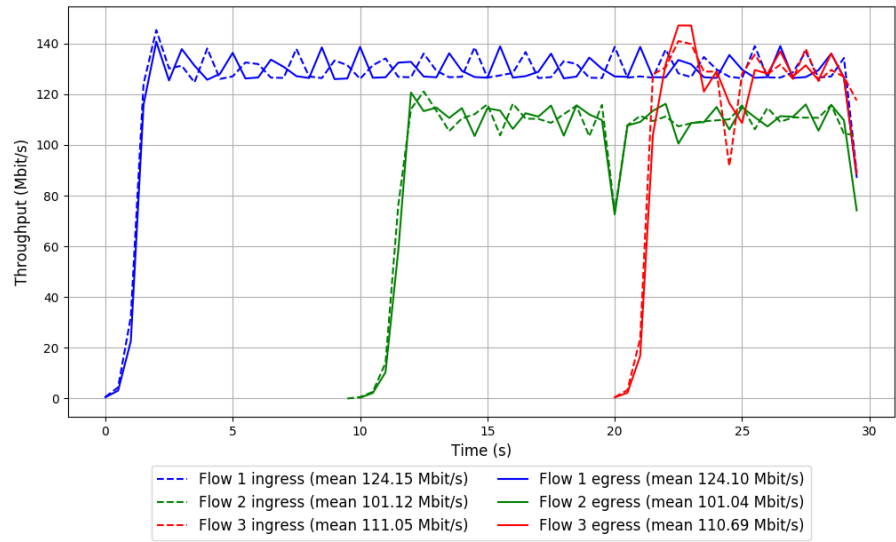
-- Flow 3:

Average throughput: 110.69 Mbit/s

95th percentile per-packet one-way delay: 88.349 ms

Loss rate: 2.19%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 21:11:06

End at: 2017-11-30 21:11:36

Below is generated by plot.py at 2017-12-01 00:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.18 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 122.58 Mbit/s

95th percentile per-packet one-way delay: 87.293 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 119.30 Mbit/s

95th percentile per-packet one-way delay: 87.294 ms

Loss rate: 1.12%

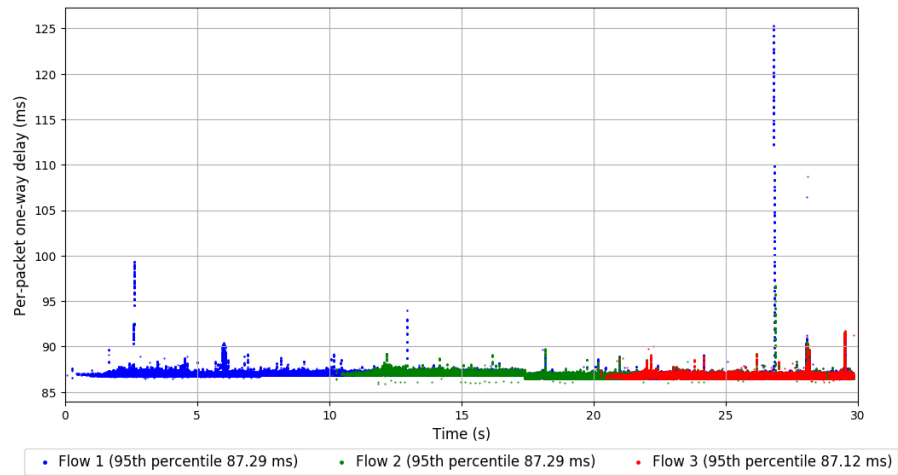
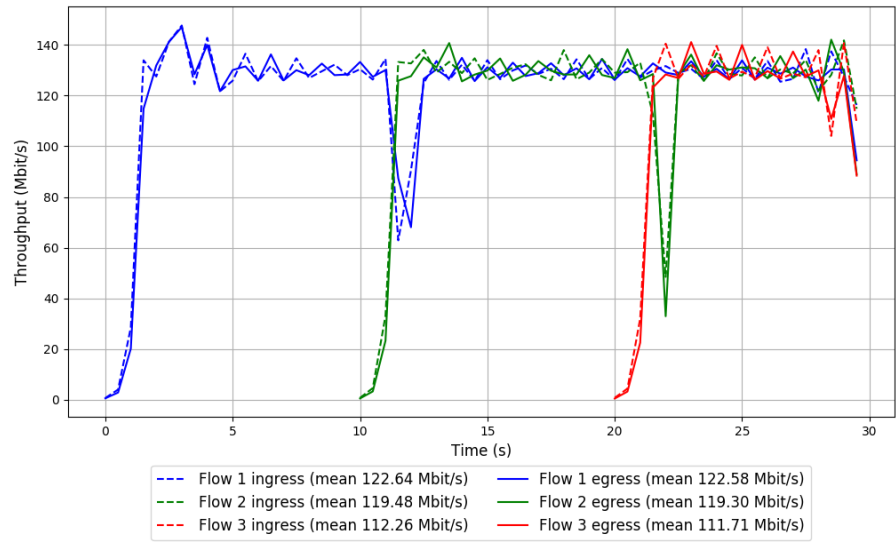
-- Flow 3:

Average throughput: 111.71 Mbit/s

95th percentile per-packet one-way delay: 87.123 ms

Loss rate: 2.38%

Run 6: Report of TCP BBR — Data Link

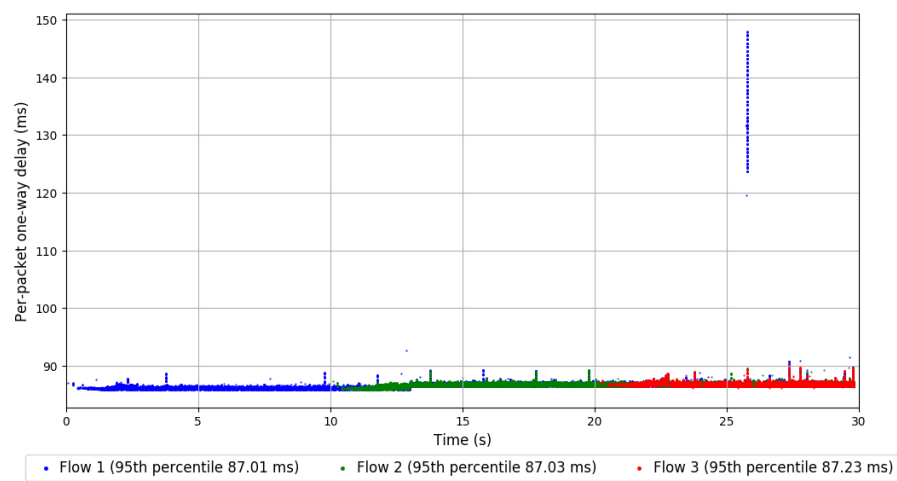
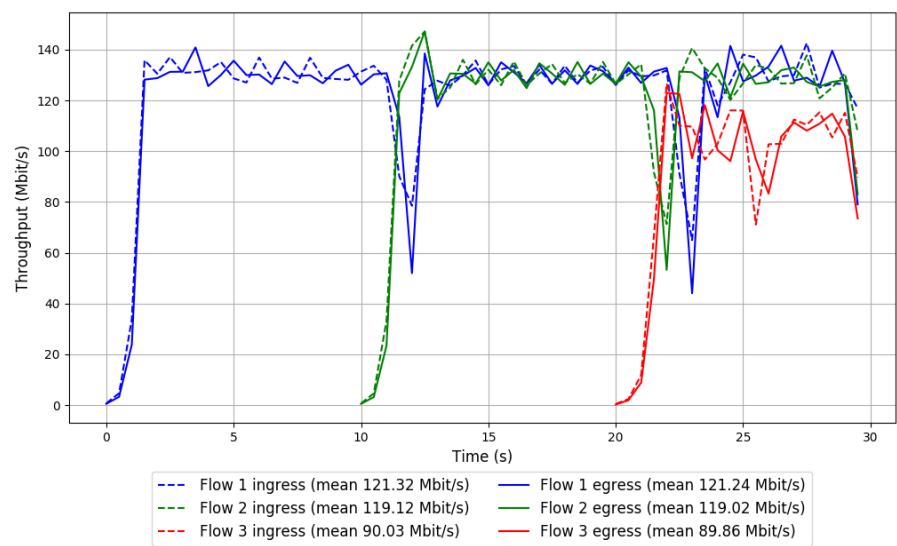


```
Run 7: Statistics of TCP BBR

Start at: 2017-11-30 21:24:40
End at: 2017-11-30 21:25:10

# Below is generated by plot.py at 2017-12-01 00:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.50 Mbit/s
95th percentile per-packet one-way delay: 87.048 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 121.24 Mbit/s
95th percentile per-packet one-way delay: 87.011 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 119.02 Mbit/s
95th percentile per-packet one-way delay: 87.031 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 89.86 Mbit/s
95th percentile per-packet one-way delay: 87.229 ms
Loss rate: 2.29%
```

Run 7: Report of TCP BBR — Data Link

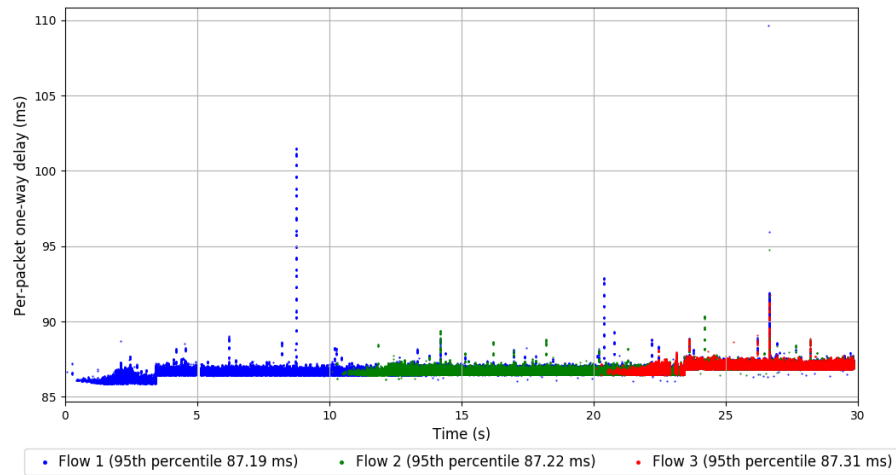
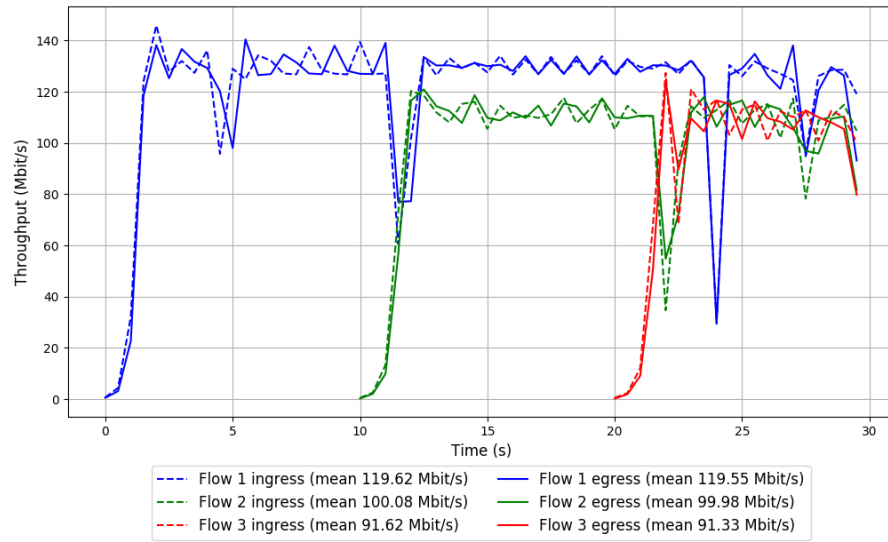


```
Run 8: Statistics of TCP BBR

Start at: 2017-11-30 21:38:00
End at: 2017-11-30 21:38:30

# Below is generated by plot.py at 2017-12-01 00:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.76 Mbit/s
95th percentile per-packet one-way delay: 87.224 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 119.55 Mbit/s
95th percentile per-packet one-way delay: 87.185 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 99.98 Mbit/s
95th percentile per-packet one-way delay: 87.219 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 87.312 ms
Loss rate: 2.34%
```

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 21:51:34

End at: 2017-11-30 21:52:04

Below is generated by plot.py at 2017-12-01 00:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.56 Mbit/s

95th percentile per-packet one-way delay: 86.888 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 122.15 Mbit/s

95th percentile per-packet one-way delay: 86.943 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 118.31 Mbit/s

95th percentile per-packet one-way delay: 86.492 ms

Loss rate: 1.11%

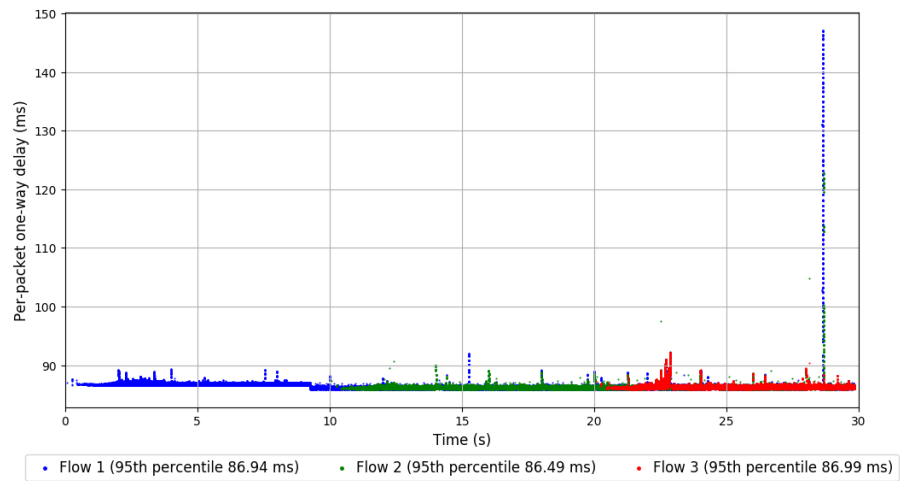
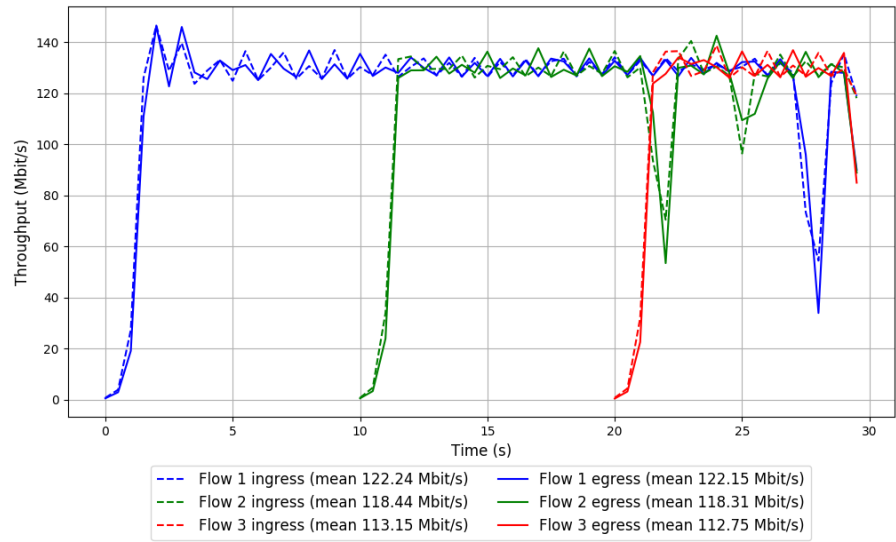
-- Flow 3:

Average throughput: 112.75 Mbit/s

95th percentile per-packet one-way delay: 86.986 ms

Loss rate: 2.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 22:05:05

End at: 2017-11-30 22:05:35

Below is generated by plot.py at 2017-12-01 00:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.97 Mbit/s

95th percentile per-packet one-way delay: 87.155 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 121.16 Mbit/s

95th percentile per-packet one-way delay: 87.092 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 118.81 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.97%

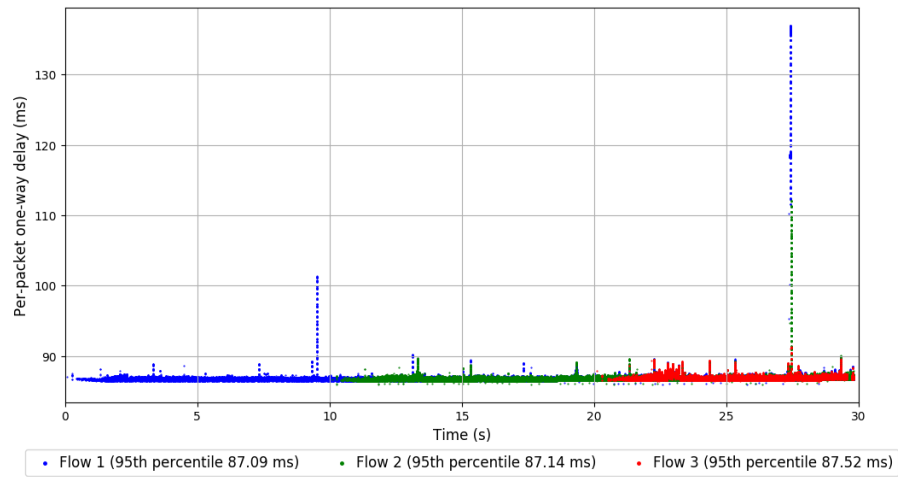
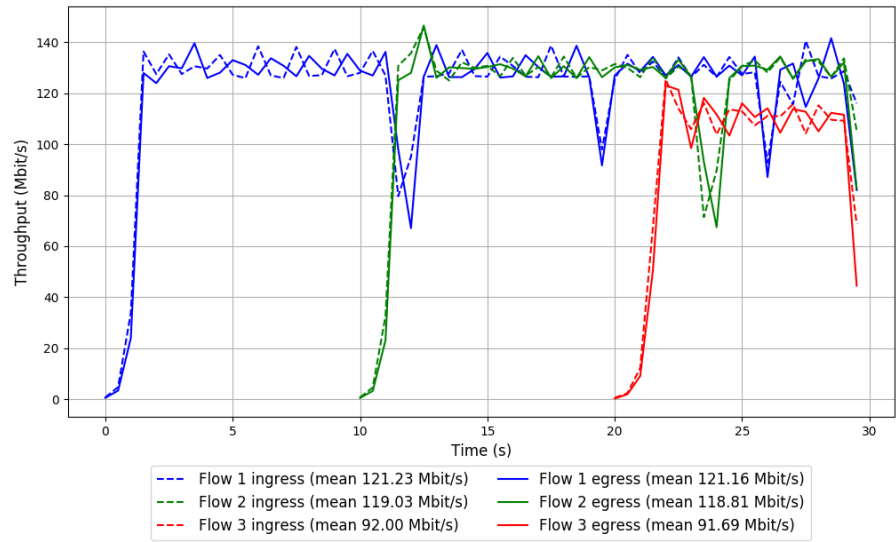
-- Flow 3:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 87.522 ms

Loss rate: 2.38%

Run 10: Report of TCP BBR — Data Link

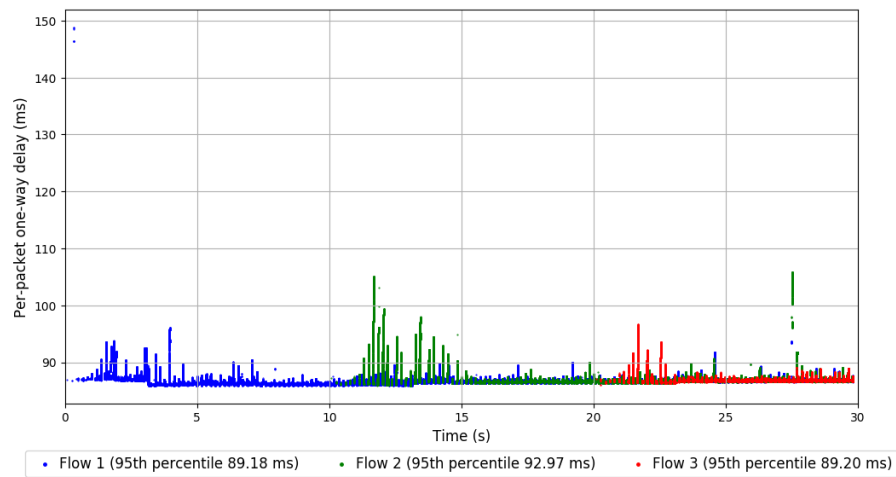
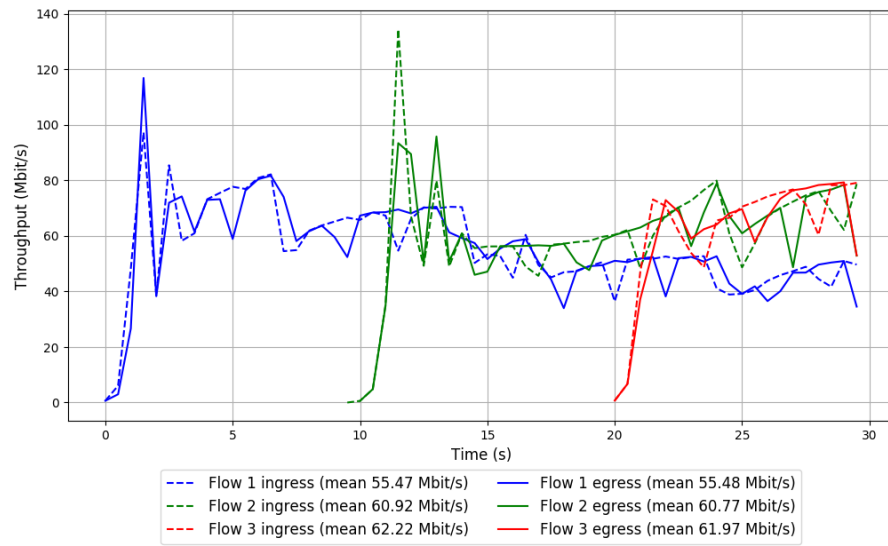


```
Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 20:12:10
End at: 2017-11-30 20:12:40

# Below is generated by plot.py at 2017-12-01 00:37:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.04 Mbit/s
95th percentile per-packet one-way delay: 90.297 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 89.177 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 60.77 Mbit/s
95th percentile per-packet one-way delay: 92.966 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 61.97 Mbit/s
95th percentile per-packet one-way delay: 89.200 ms
Loss rate: 2.15%
```

Run 1: Report of TCP Cubic — Data Link

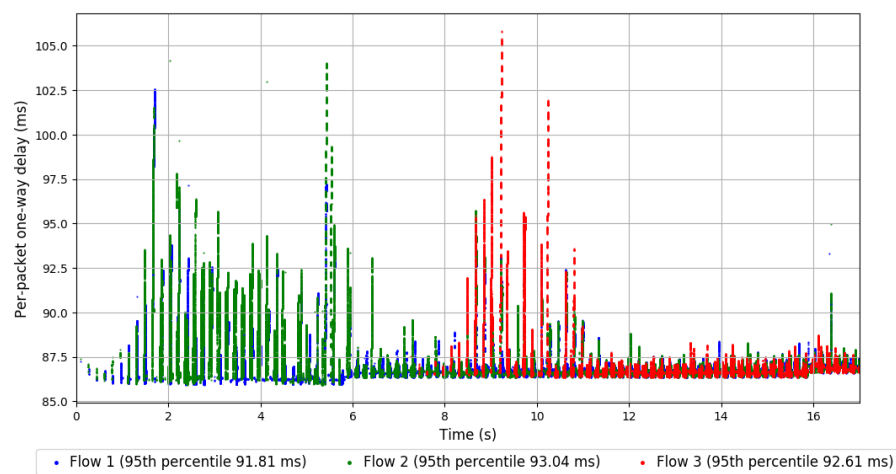
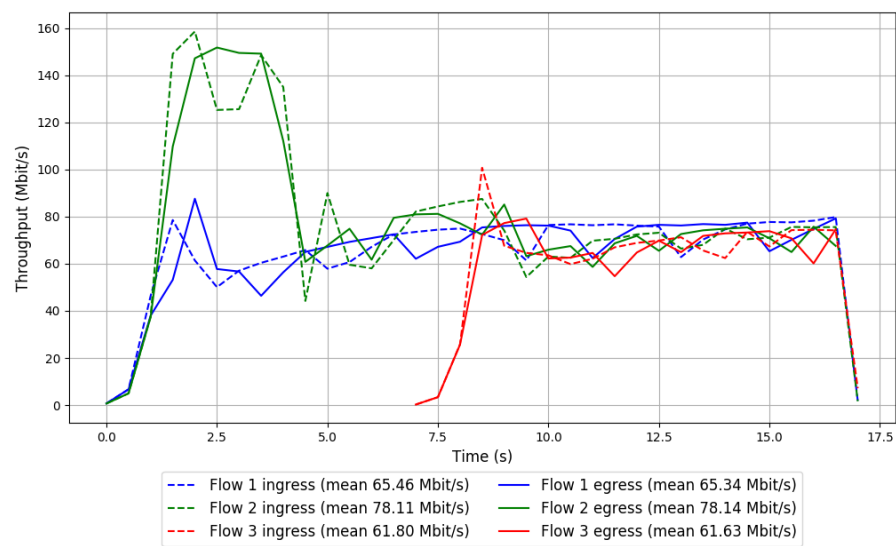


Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 20:25:15

End at: 2017-11-30 20:25:45

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 20:38:36

End at: 2017-11-30 20:39:06

Below is generated by plot.py at 2017-12-01 00:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.26 Mbit/s

95th percentile per-packet one-way delay: 95.687 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 92.620 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 93.544 ms

Loss rate: 1.81%

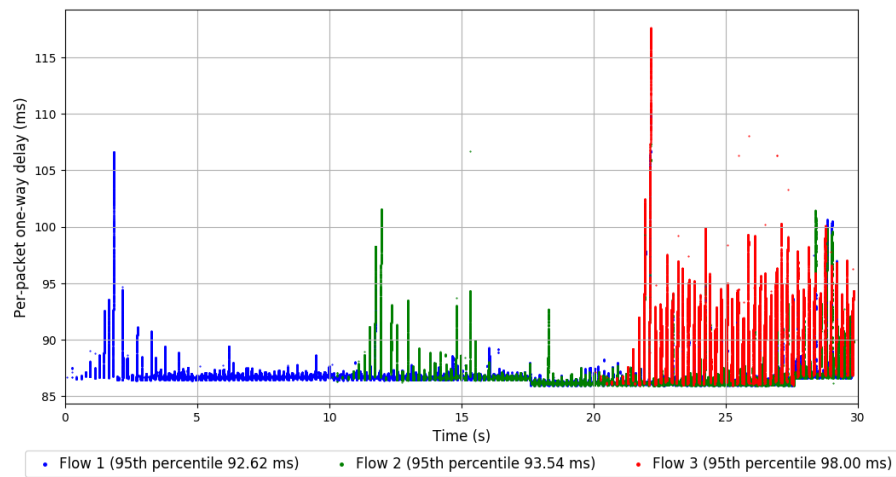
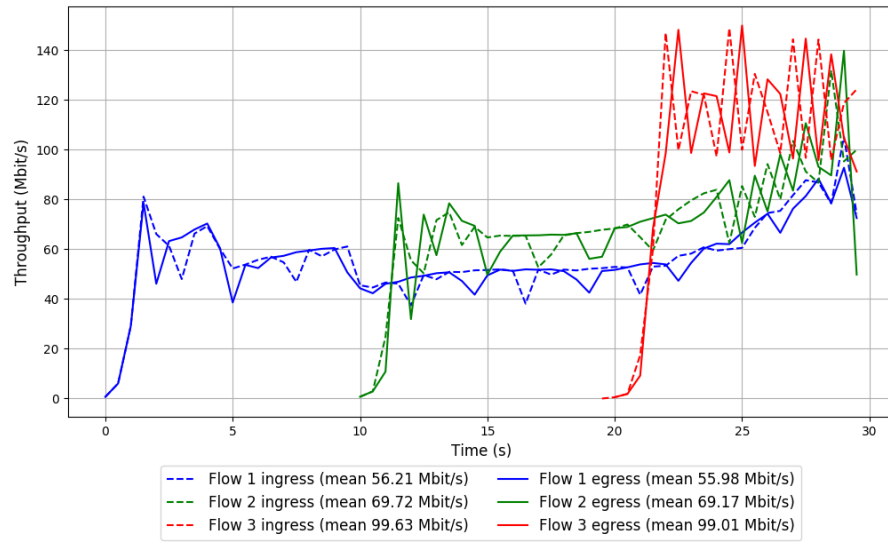
-- Flow 3:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 97.995 ms

Loss rate: 2.67%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 20:52:05

End at: 2017-11-30 20:52:35

Below is generated by plot.py at 2017-12-01 00:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.65 Mbit/s

95th percentile per-packet one-way delay: 93.782 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 81.56 Mbit/s

95th percentile per-packet one-way delay: 91.260 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 92.220 ms

Loss rate: 0.67%

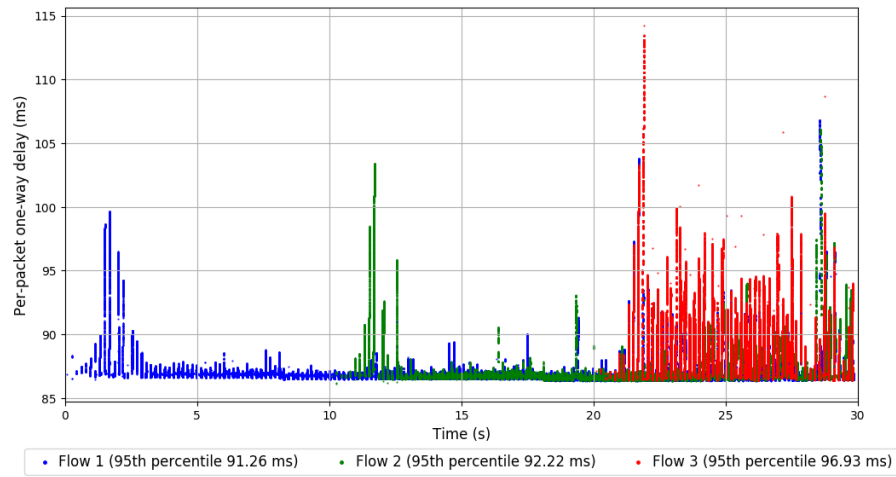
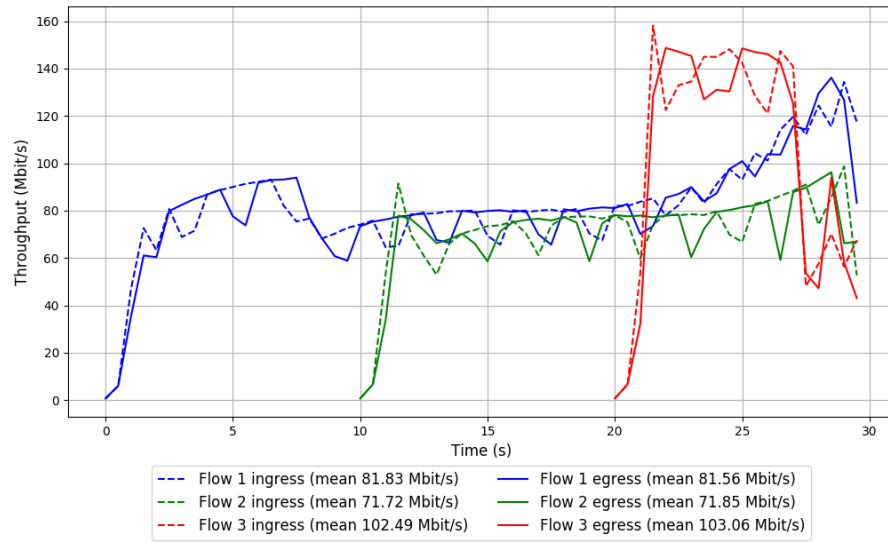
-- Flow 3:

Average throughput: 103.06 Mbit/s

95th percentile per-packet one-way delay: 96.927 ms

Loss rate: 1.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 21:05:17

End at: 2017-11-30 21:05:47

Below is generated by plot.py at 2017-12-01 00:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.02 Mbit/s

95th percentile per-packet one-way delay: 90.889 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 91.921 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 51.27 Mbit/s

95th percentile per-packet one-way delay: 89.098 ms

Loss rate: 1.01%

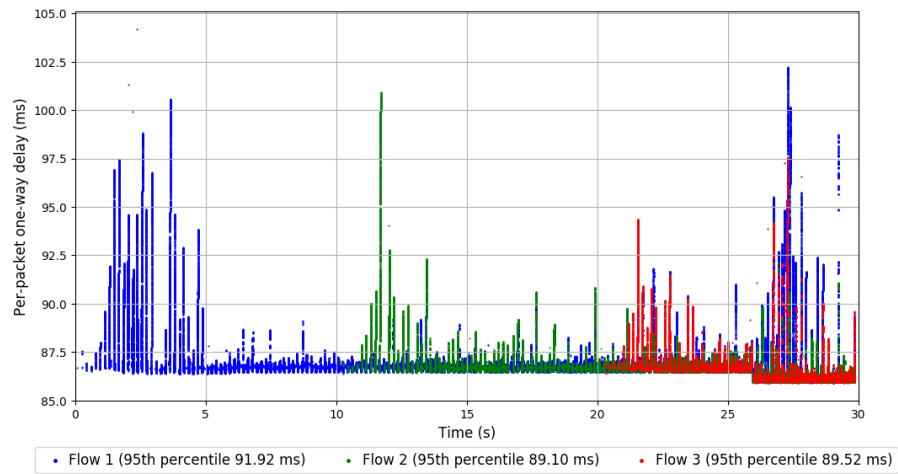
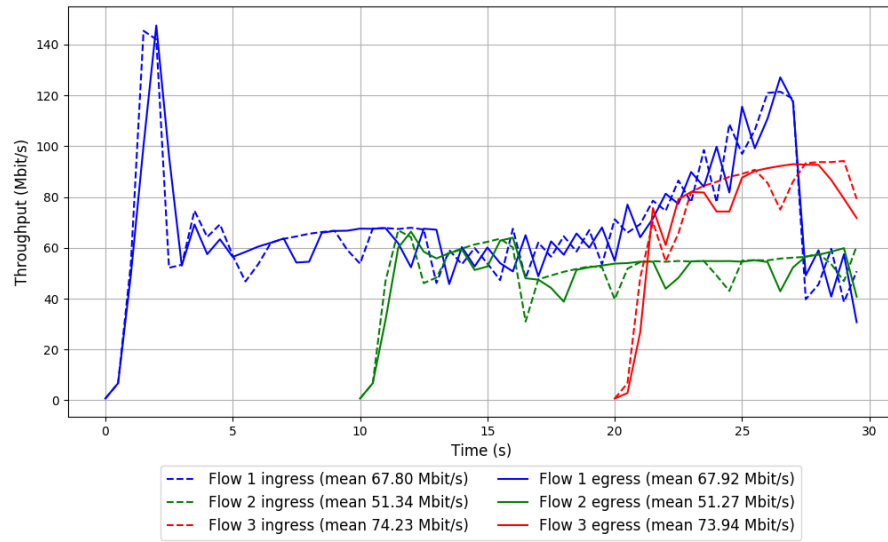
-- Flow 3:

Average throughput: 73.94 Mbit/s

95th percentile per-packet one-way delay: 89.523 ms

Loss rate: 2.13%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 21:18:50

End at: 2017-11-30 21:19:20

Below is generated by plot.py at 2017-12-01 00:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.08 Mbit/s

95th percentile per-packet one-way delay: 93.830 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 82.17 Mbit/s

95th percentile per-packet one-way delay: 92.946 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 94.725 ms

Loss rate: 0.95%

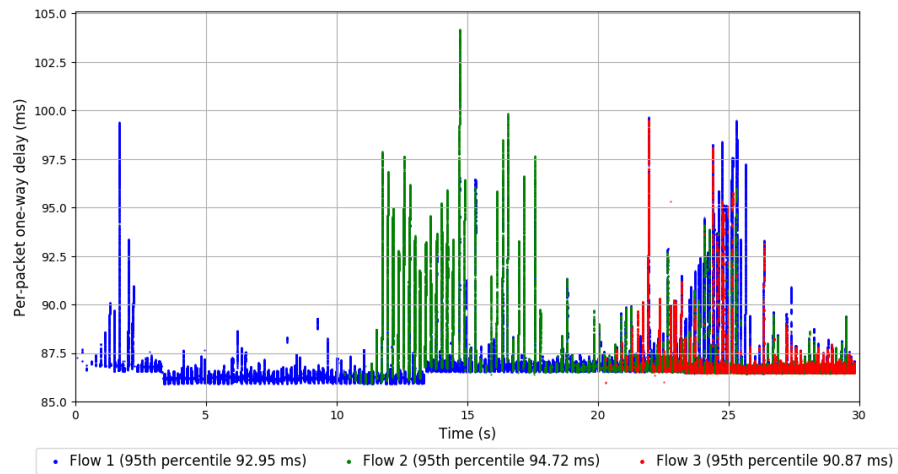
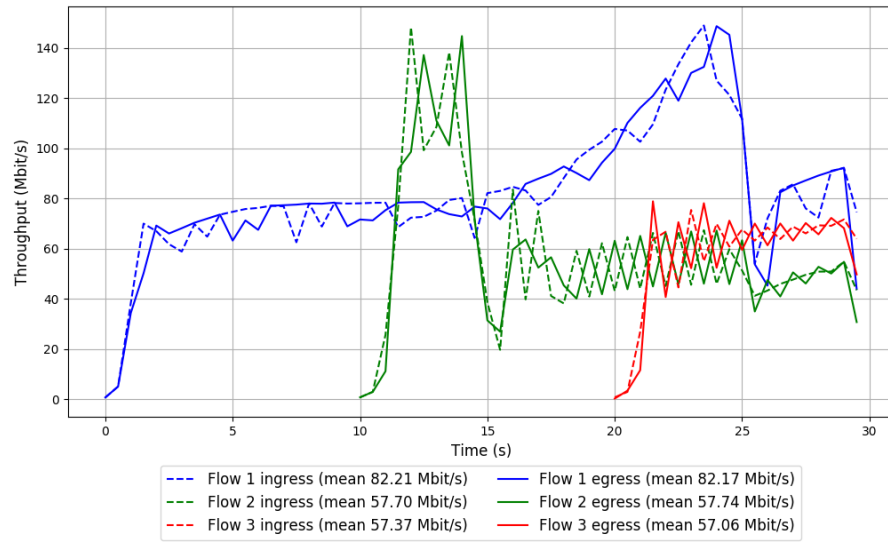
-- Flow 3:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 90.867 ms

Loss rate: 2.56%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 21:32:25

End at: 2017-11-30 21:32:55

Below is generated by plot.py at 2017-12-01 00:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 91.062 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 91.751 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 49.06 Mbit/s

95th percentile per-packet one-way delay: 90.089 ms

Loss rate: 1.13%

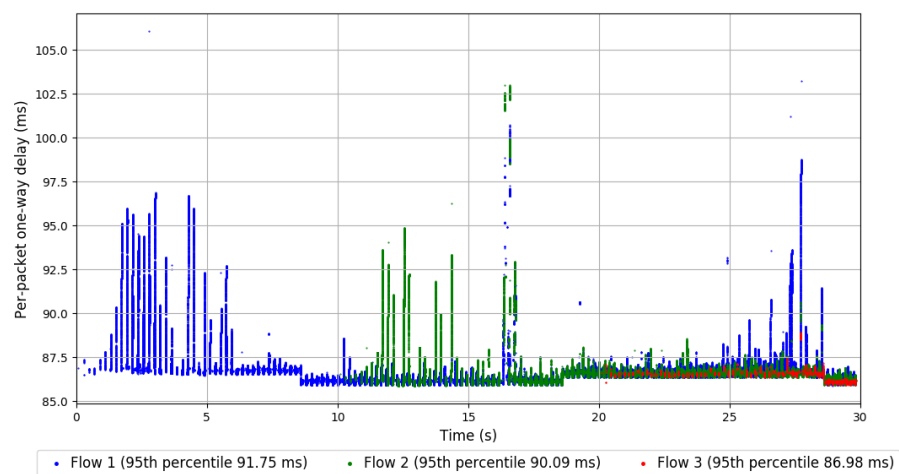
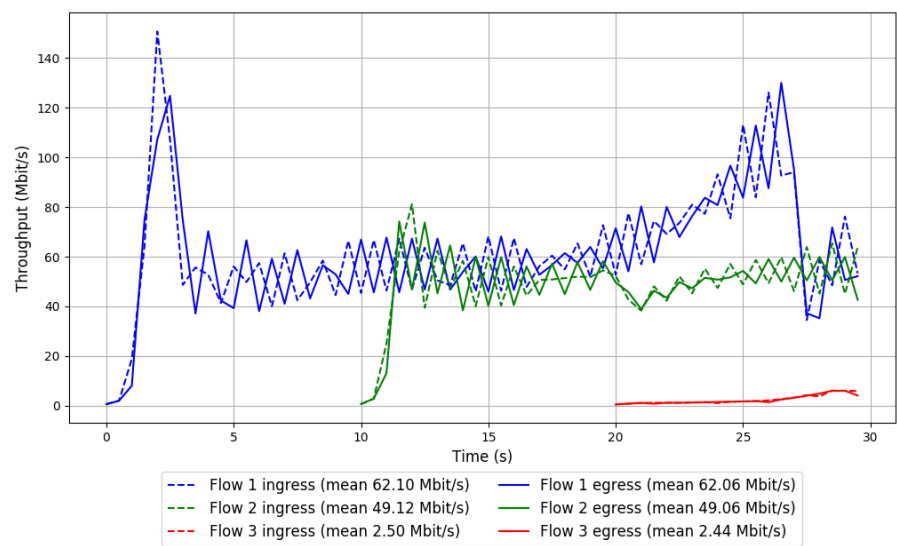
-- Flow 3:

Average throughput: 2.44 Mbit/s

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

Loss rate: 4.41%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 21:45:50

End at: 2017-11-30 21:46:20

Below is generated by plot.py at 2017-12-01 00:38:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.56 Mbit/s

95th percentile per-packet one-way delay: 92.814 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 91.449 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 70.22 Mbit/s

95th percentile per-packet one-way delay: 94.389 ms

Loss rate: 0.72%

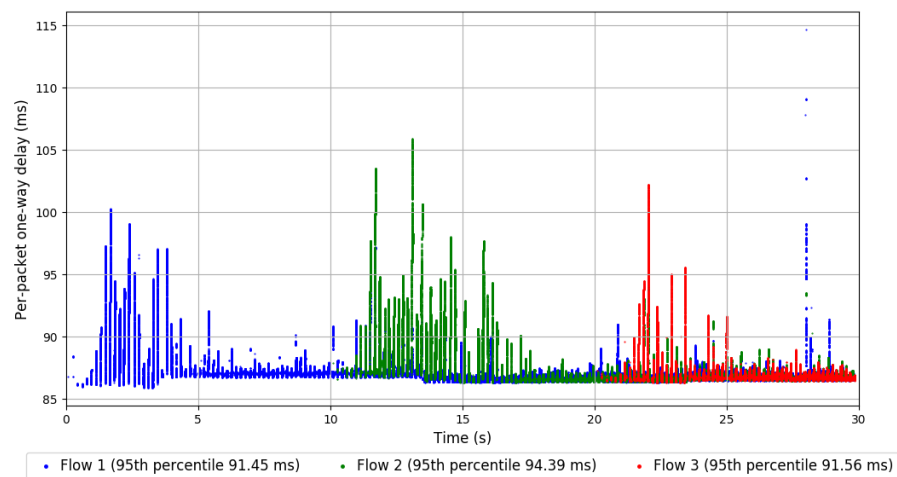
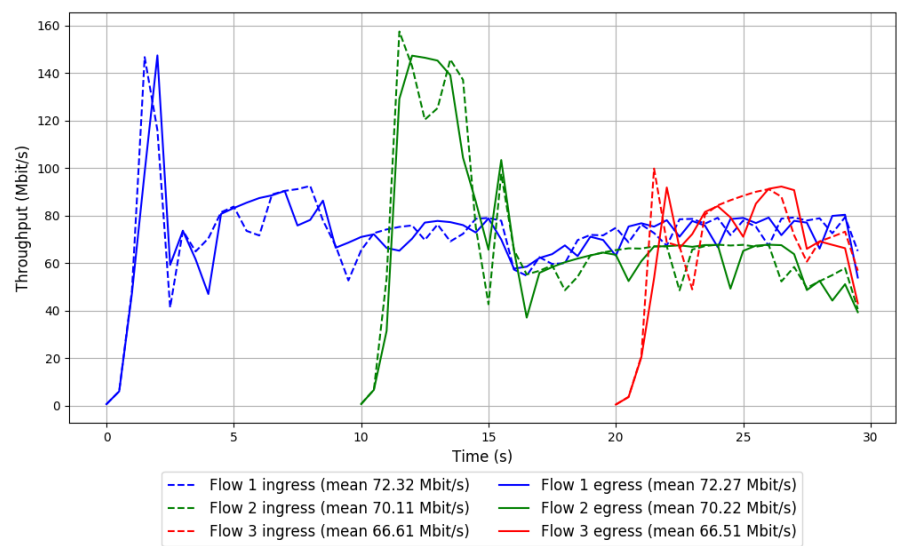
-- Flow 3:

Average throughput: 66.51 Mbit/s

95th percentile per-packet one-way delay: 91.563 ms

Loss rate: 1.90%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 21:59:16

End at: 2017-11-30 21:59:46

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.90 Mbit/s

95th percentile per-packet one-way delay: 92.993 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 60.47 Mbit/s

95th percentile per-packet one-way delay: 92.844 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 93.355 ms

Loss rate: 1.01%

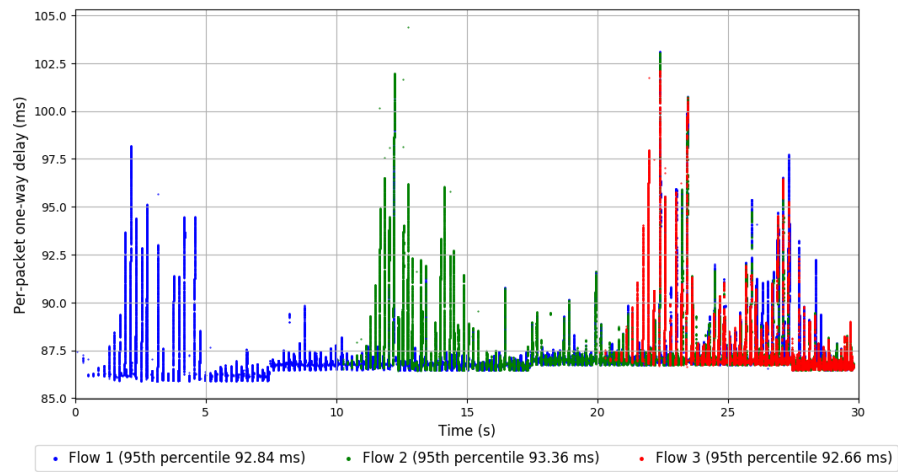
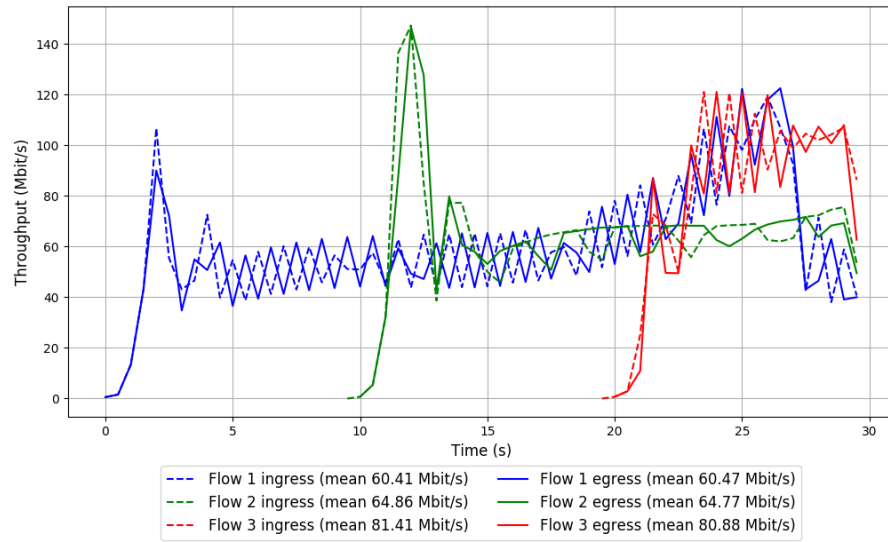
-- Flow 3:

Average throughput: 80.88 Mbit/s

95th percentile per-packet one-way delay: 92.657 ms

Loss rate: 2.67%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 22:12:42

End at: 2017-11-30 22:13:12

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 92.636 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 89.744 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 94.917 ms

Loss rate: 0.96%

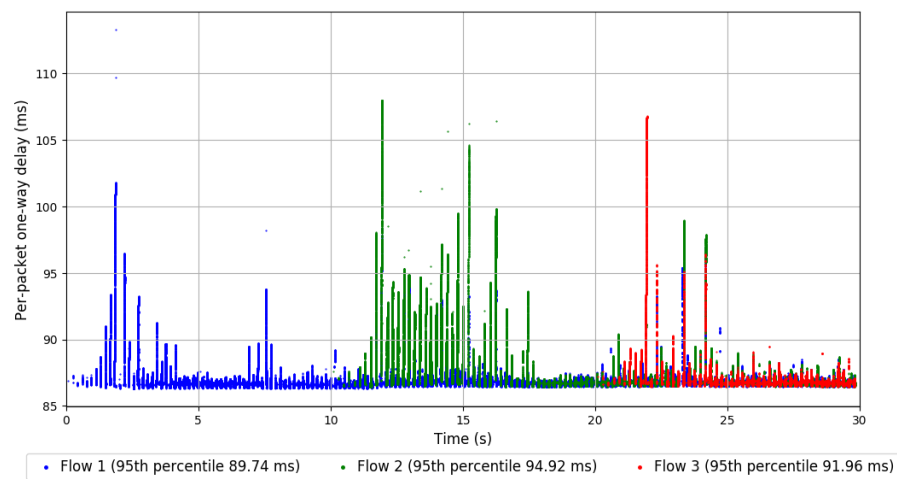
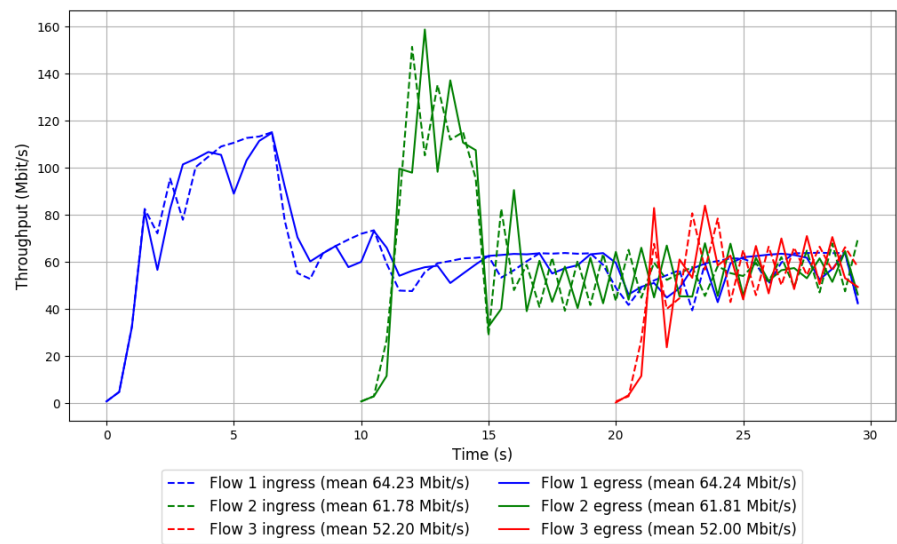
-- Flow 3:

Average throughput: 52.00 Mbit/s

95th percentile per-packet one-way delay: 91.958 ms

Loss rate: 2.41%

Run 10: Report of TCP Cubic — Data Link

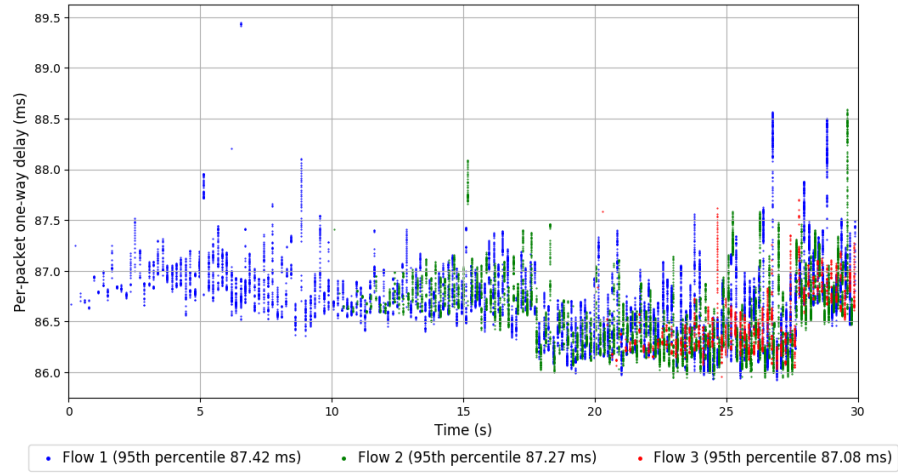
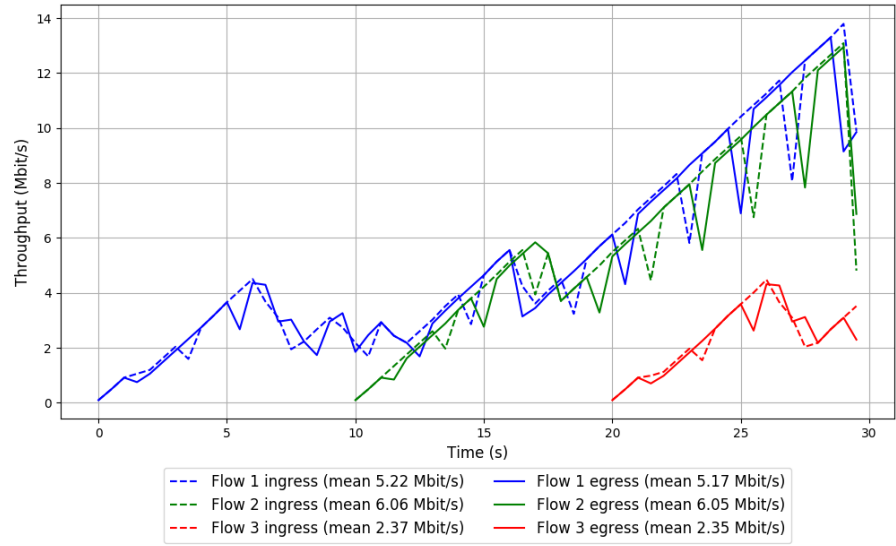


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 20:11:26
End at: 2017-11-30 20:11:56

# Below is generated by plot.py at 2017-12-01 00:38:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 87.331 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 87.425 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 87.271 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 87.084 ms
Loss rate: 2.60%
```


Run 1: Report of LEDBAT — Data Link

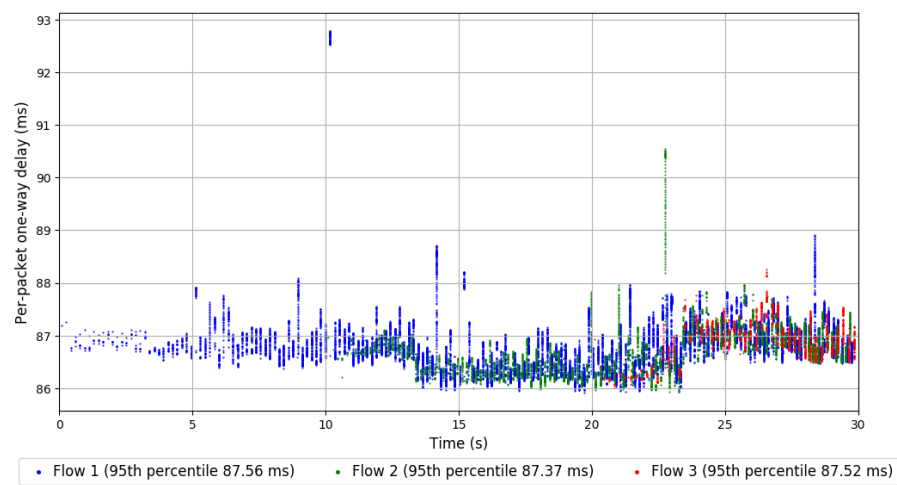
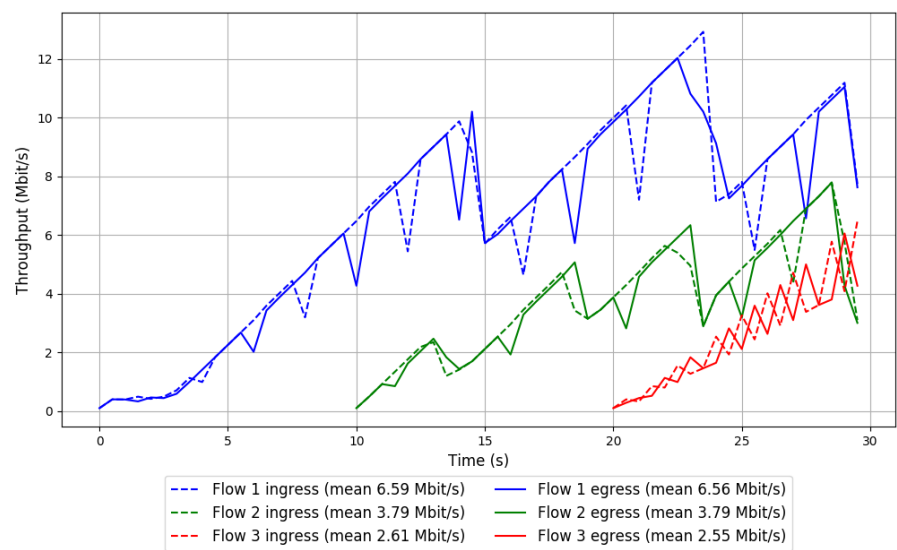


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-30 20:24:30
End at: 2017-11-30 20:25:00

# Below is generated by plot.py at 2017-12-01 00:38:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 87.527 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 87.564 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 87.368 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 87.520 ms
Loss rate: 4.25%
```

Run 2: Report of LEDBAT — Data Link

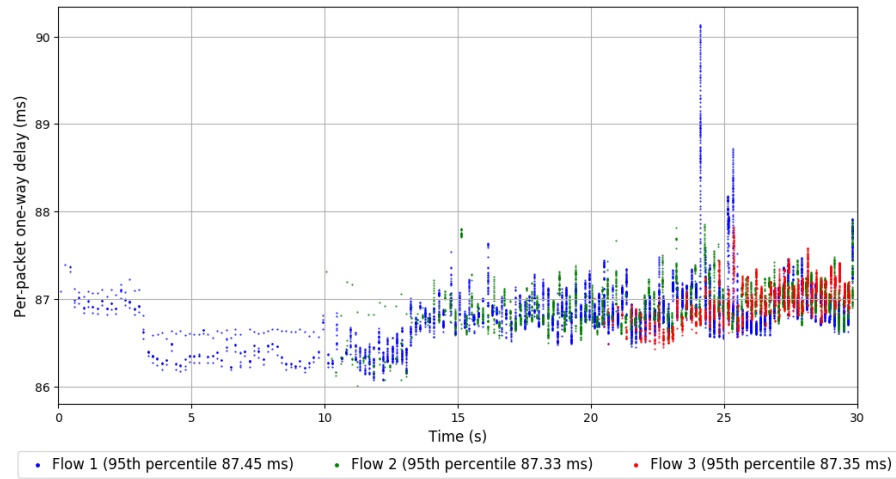
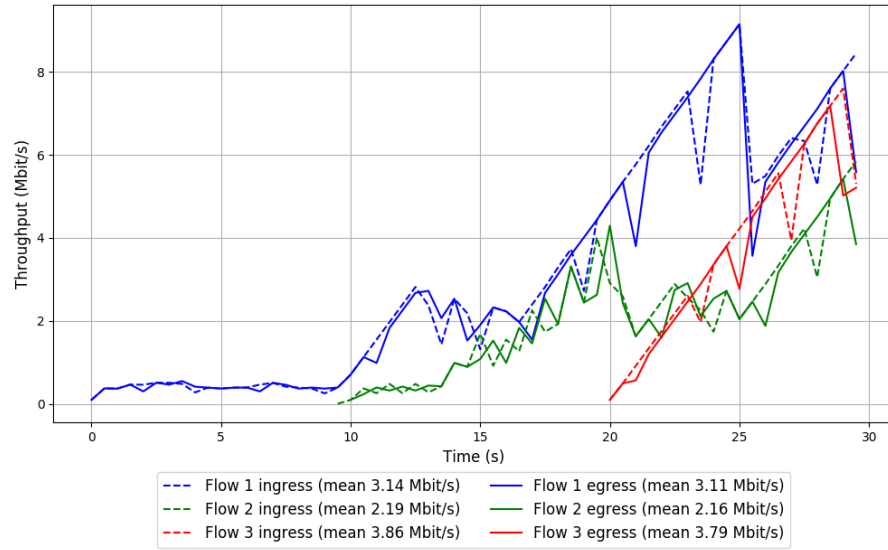


```
Run 3: Statistics of LEDBAT

Start at: 2017-11-30 20:37:50
End at: 2017-11-30 20:38:20

# Below is generated by plot.py at 2017-12-01 00:38:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.76 Mbit/s
95th percentile per-packet one-way delay: 87.369 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 87.454 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 87.335 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 87.351 ms
Loss rate: 3.56%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 20:51:19

End at: 2017-11-30 20:51:49

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 87.214 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 87.201 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 87.257 ms

Loss rate: 0.89%

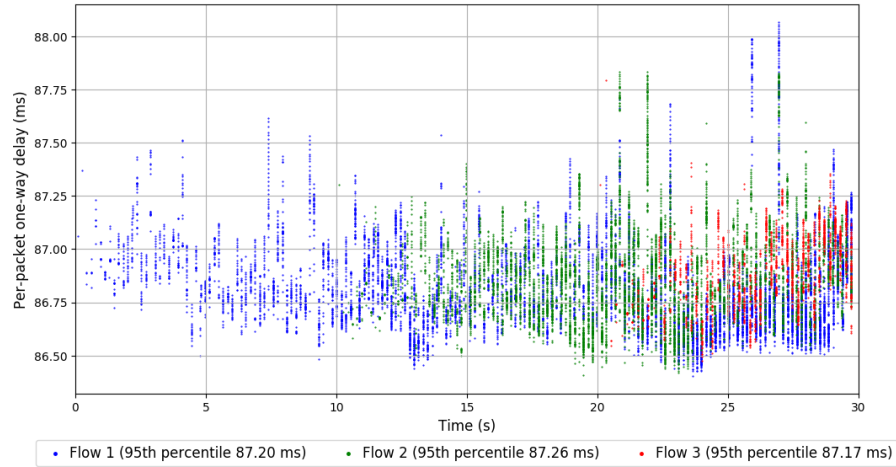
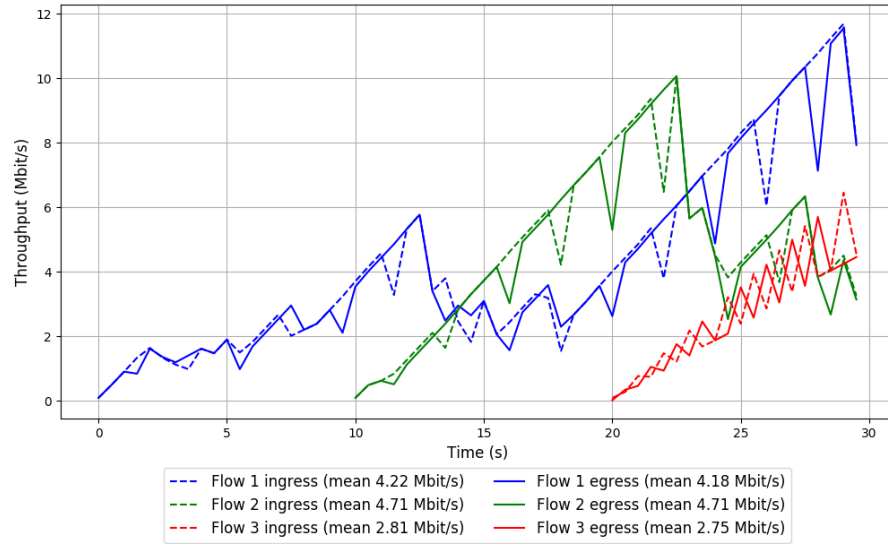
-- Flow 3:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 87.165 ms

Loss rate: 4.17%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 21:04:32

End at: 2017-11-30 21:05:02

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 3.61 Mbit/s

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

Loss rate: 1.53%

-- Flow 2:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 87.200 ms

Loss rate: 2.02%

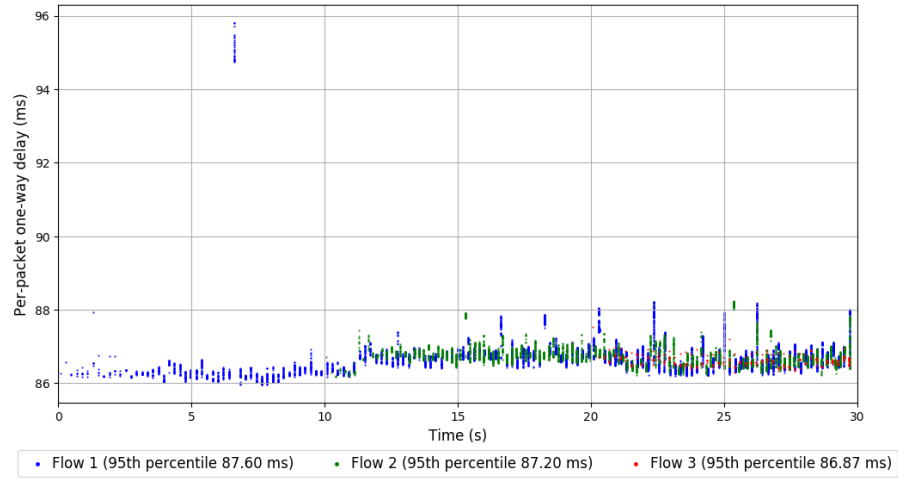
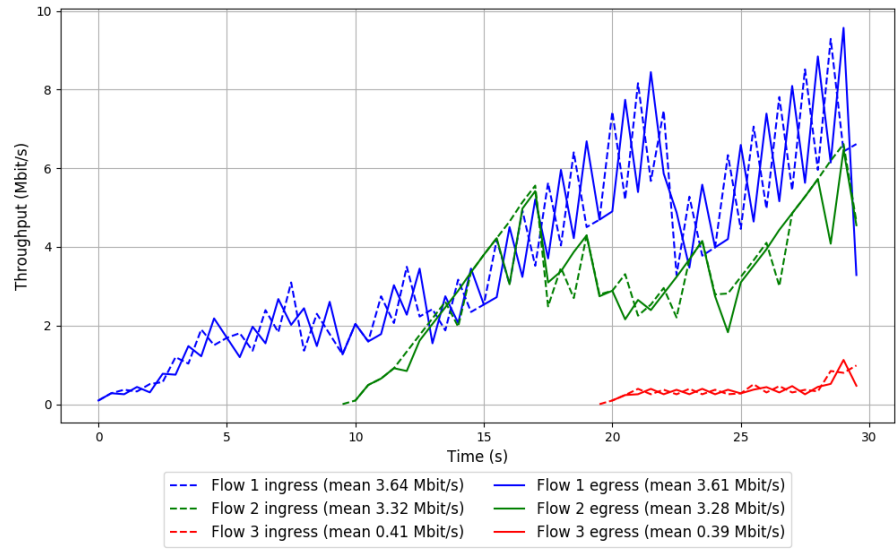
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 86.867 ms

Loss rate: 6.44%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 21:18:04

End at: 2017-11-30 21:18:34

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 87.485 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 4.55 Mbit/s

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

Loss rate: 0.38%

-- Flow 2:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 87.477 ms

Loss rate: 1.36%

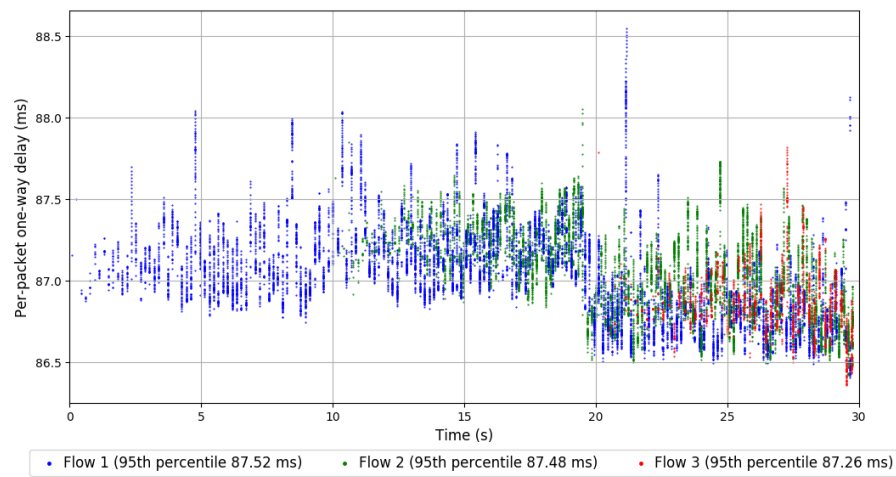
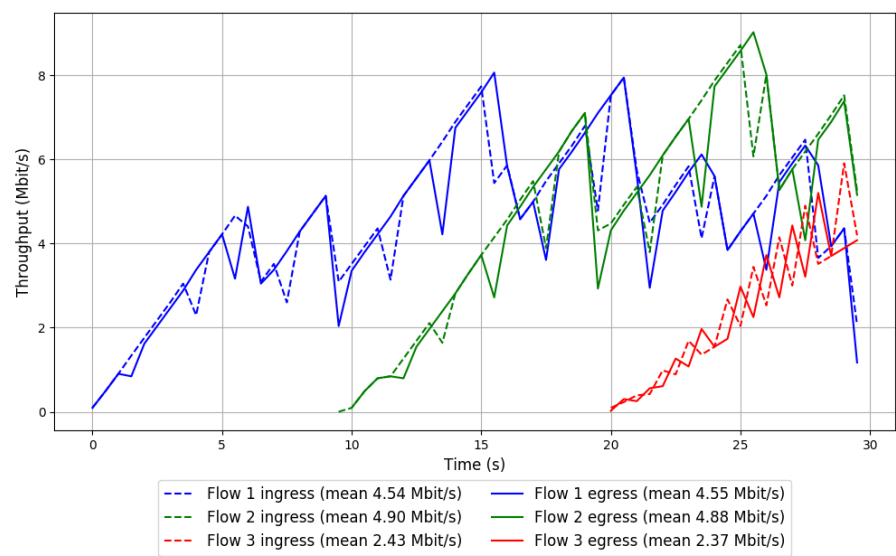
-- Flow 3:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 87.260 ms

Loss rate: 4.47%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 21:31:39

End at: 2017-11-30 21:32:09

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.76 Mbit/s

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

Loss rate: 1.94%

-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 87.260 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 5.20 Mbit/s

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

Loss rate: 1.47%

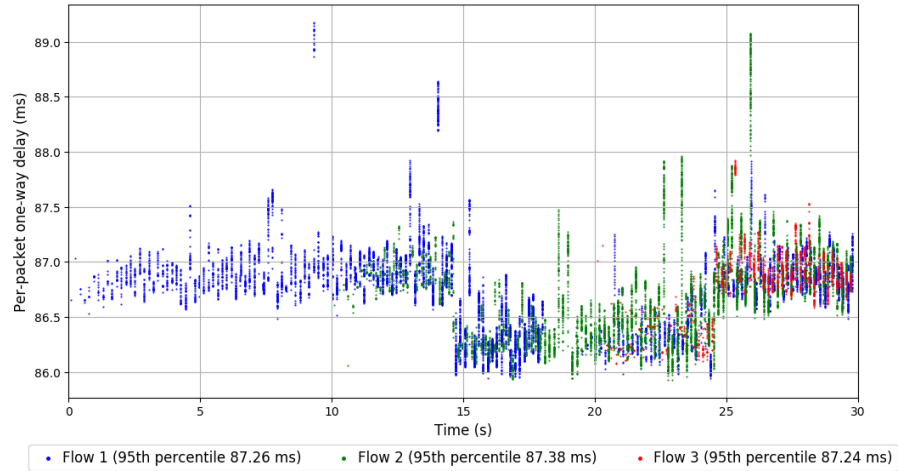
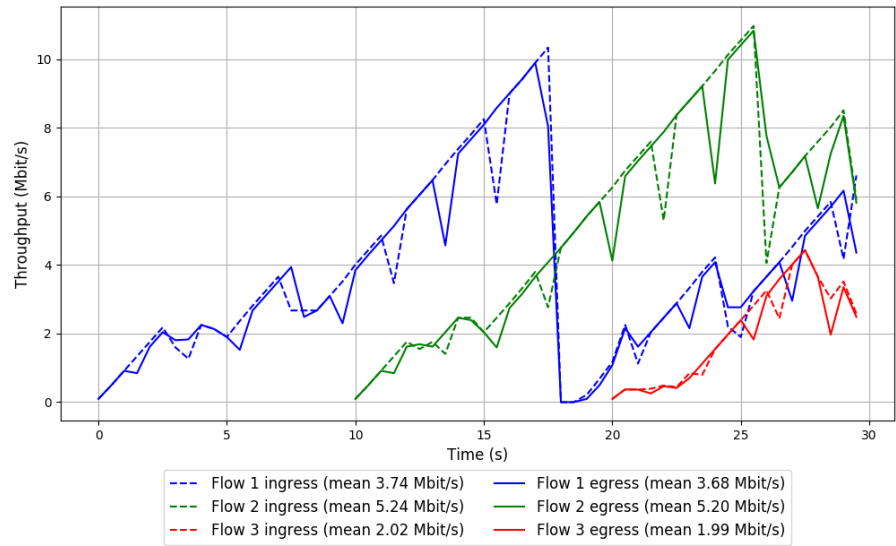
-- Flow 3:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 87.244 ms

Loss rate: 3.33%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 21:45:04

End at: 2017-11-30 21:45:34

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 87.277 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 2.97 Mbit/s

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

Loss rate: 0.69%

-- Flow 2:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 87.193 ms

Loss rate: 1.65%

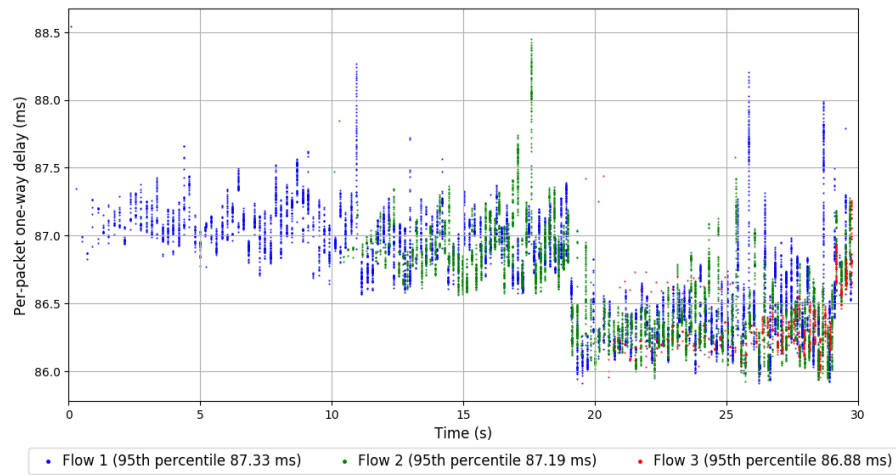
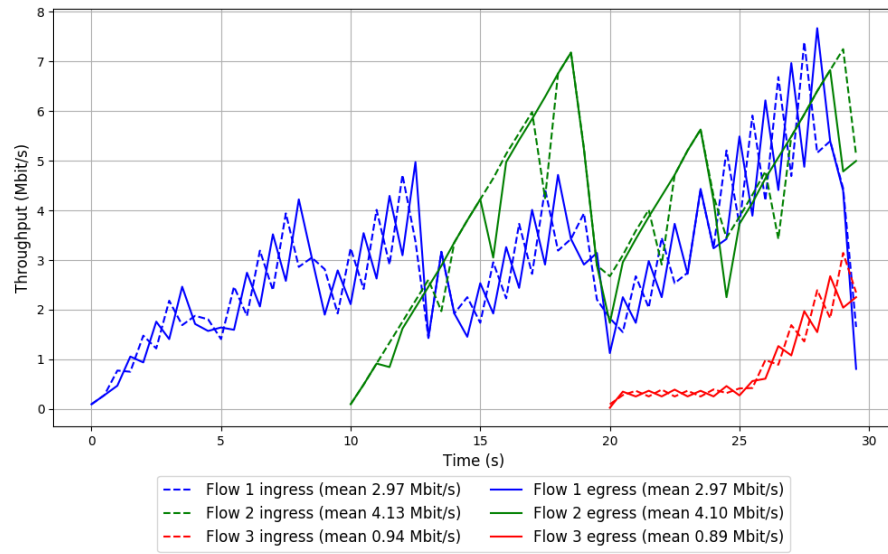
-- Flow 3:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 86.882 ms

Loss rate: 6.49%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 21:58:30

End at: 2017-11-30 21:59:00

Below is generated by plot.py at 2017-12-01 00:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.37 Mbit/s

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

Loss rate: 1.94%

-- Flow 1:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 87.458 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 87.548 ms

Loss rate: 1.58%

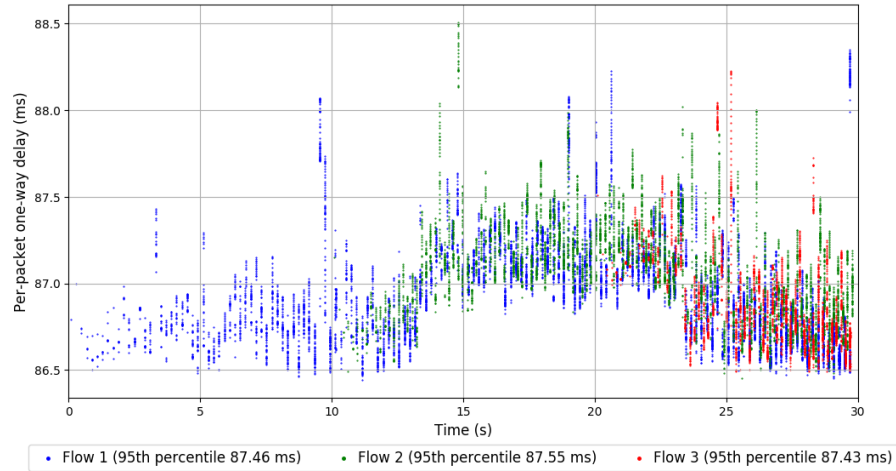
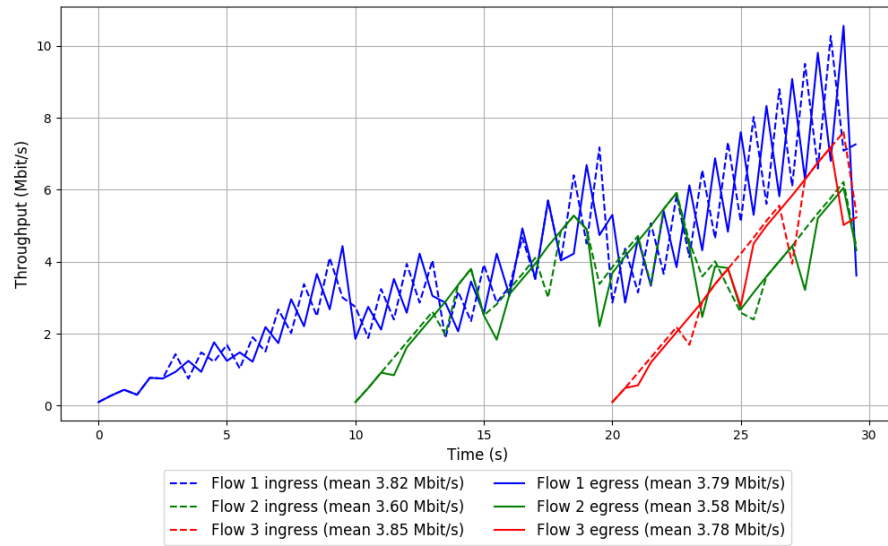
-- Flow 3:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 87.427 ms

Loss rate: 3.59%

Run 9: Report of LEDBAT — Data Link

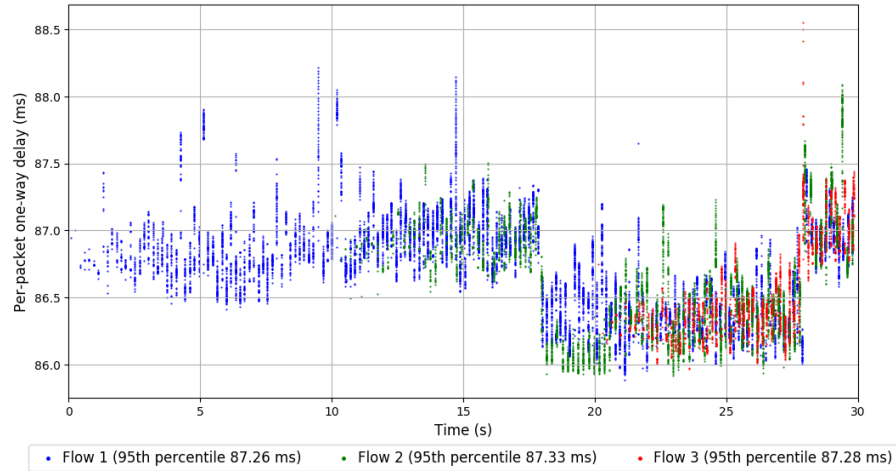
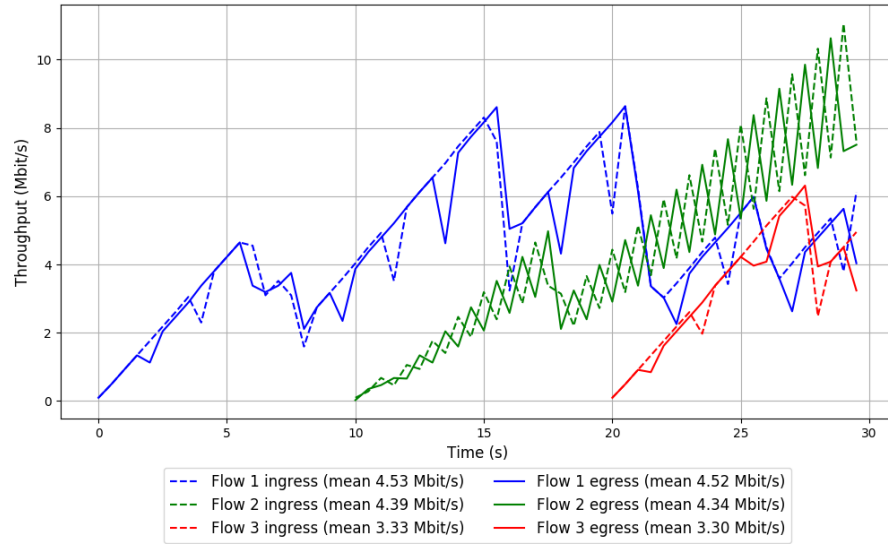


```
Run 10: Statistics of LEDBAT

Start at: 2017-11-30 22:11:55
End at: 2017-11-30 22:12:25

# Below is generated by plot.py at 2017-12-01 00:38:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 87.289 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 87.264 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 87.333 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 87.283 ms
Loss rate: 2.60%
```

Run 10: Report of LEDBAT — Data Link

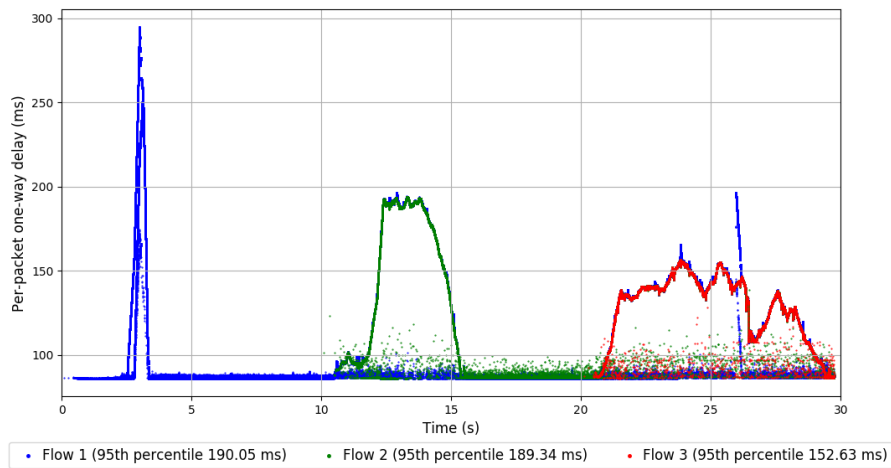
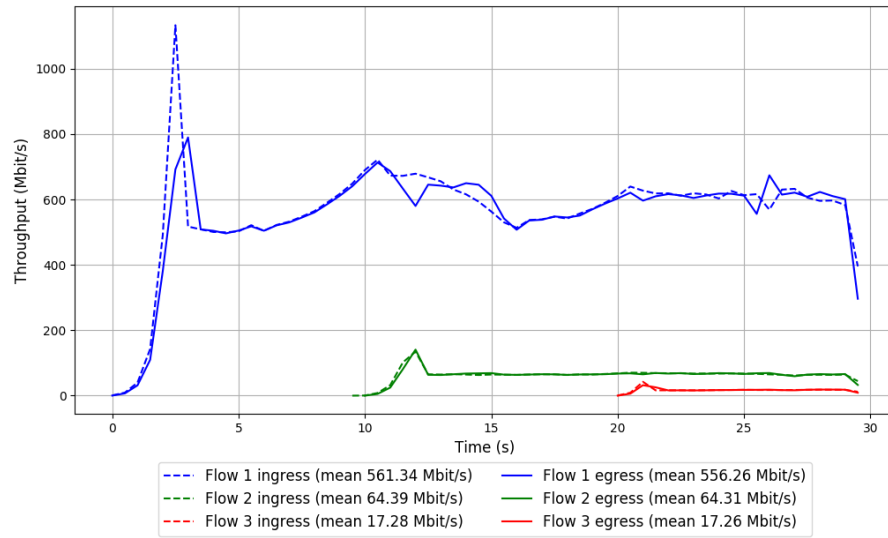


```
Run 1: Statistics of PCC

Start at: 2017-11-30 20:16:39
End at: 2017-11-30 20:17:09

# Below is generated by plot.py at 2017-12-01 00:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 604.44 Mbit/s
95th percentile per-packet one-way delay: 189.970 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 556.26 Mbit/s
95th percentile per-packet one-way delay: 190.049 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 64.31 Mbit/s
95th percentile per-packet one-way delay: 189.338 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 17.26 Mbit/s
95th percentile per-packet one-way delay: 152.629 ms
Loss rate: 1.86%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-30 20:29:41

End at: 2017-11-30 20:30:11

Below is generated by plot.py at 2017-12-01 00:47:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 603.82 Mbit/s

95th percentile per-packet one-way delay: 196.614 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 509.81 Mbit/s

95th percentile per-packet one-way delay: 196.581 ms

Loss rate: 2.45%

-- Flow 2:

Average throughput: 133.68 Mbit/s

95th percentile per-packet one-way delay: 196.703 ms

Loss rate: 2.54%

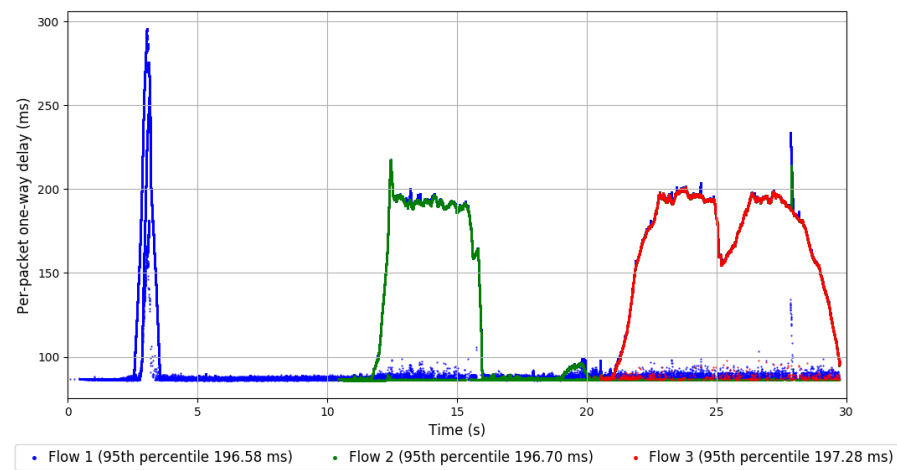
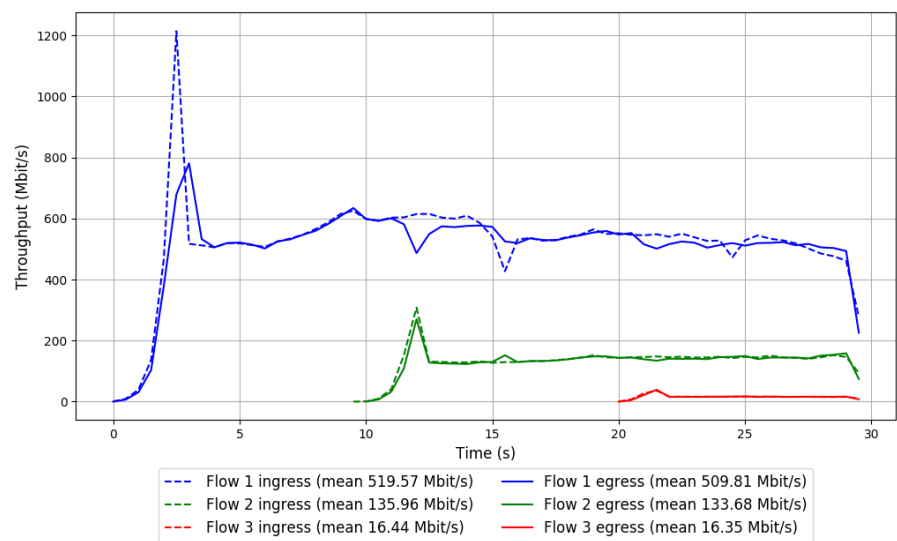
-- Flow 3:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 197.283 ms

Loss rate: 2.32%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 20:43:13

End at: 2017-11-30 20:43:43

Below is generated by plot.py at 2017-12-01 00:47:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 519.84 Mbit/s

95th percentile per-packet one-way delay: 244.482 ms

Loss rate: 3.21%

-- Flow 1:

Average throughput: 429.25 Mbit/s

95th percentile per-packet one-way delay: 244.483 ms

Loss rate: 3.37%

-- Flow 2:

Average throughput: 135.46 Mbit/s

95th percentile per-packet one-way delay: 244.471 ms

Loss rate: 2.40%

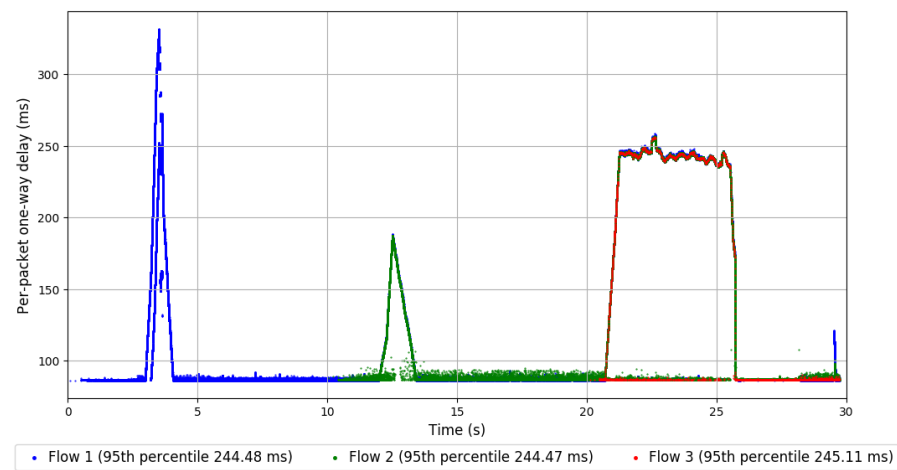
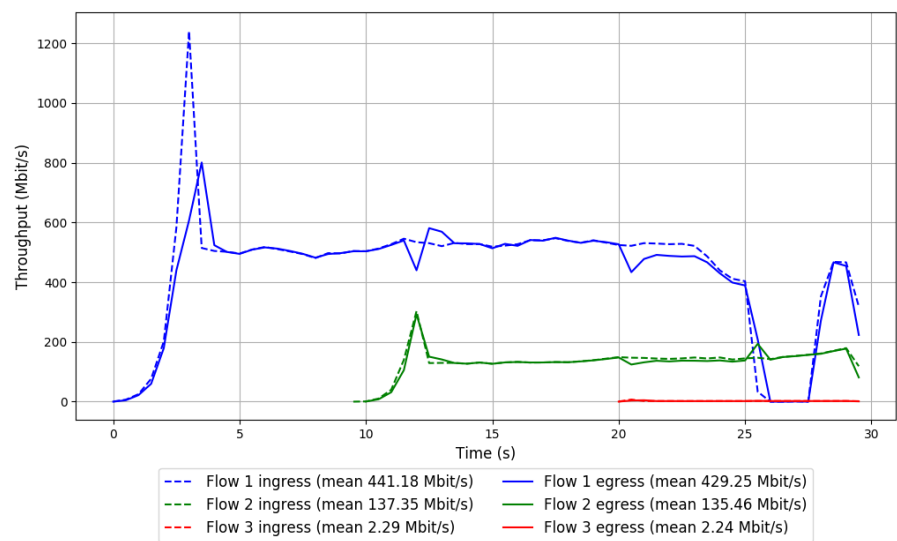
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 245.107 ms

Loss rate: 4.45%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 20:56:32

End at: 2017-11-30 20:57:02

Below is generated by plot.py at 2017-12-01 00:48:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 619.96 Mbit/s

95th percentile per-packet one-way delay: 196.020 ms

Loss rate: 4.37%

-- Flow 1:

Average throughput: 569.14 Mbit/s

95th percentile per-packet one-way delay: 196.049 ms

Loss rate: 4.34%

-- Flow 2:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 195.832 ms

Loss rate: 4.28%

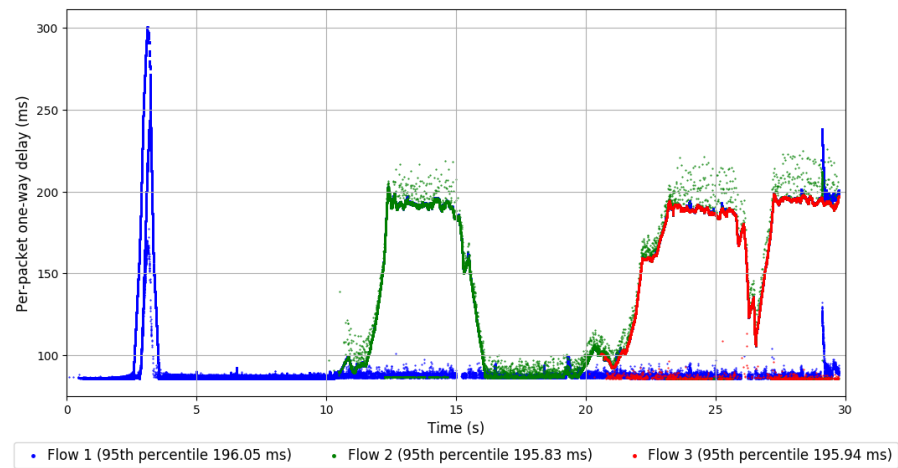
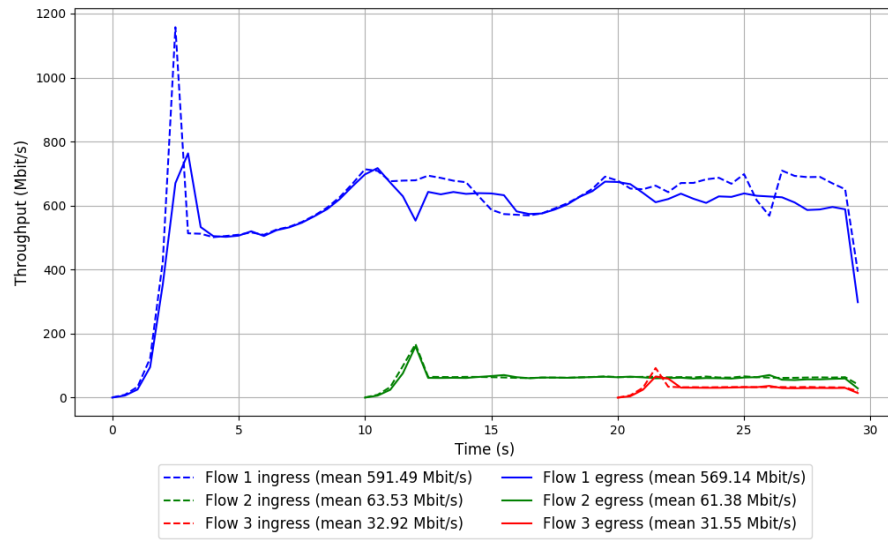
-- Flow 3:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 195.944 ms

Loss rate: 5.91%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 21:09:55

End at: 2017-11-30 21:10:25

Below is generated by plot.py at 2017-12-01 00:48:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 611.31 Mbit/s

95th percentile per-packet one-way delay: 252.719 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 500.55 Mbit/s

95th percentile per-packet one-way delay: 270.299 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 136.42 Mbit/s

95th percentile per-packet one-way delay: 187.780 ms

Loss rate: 1.35%

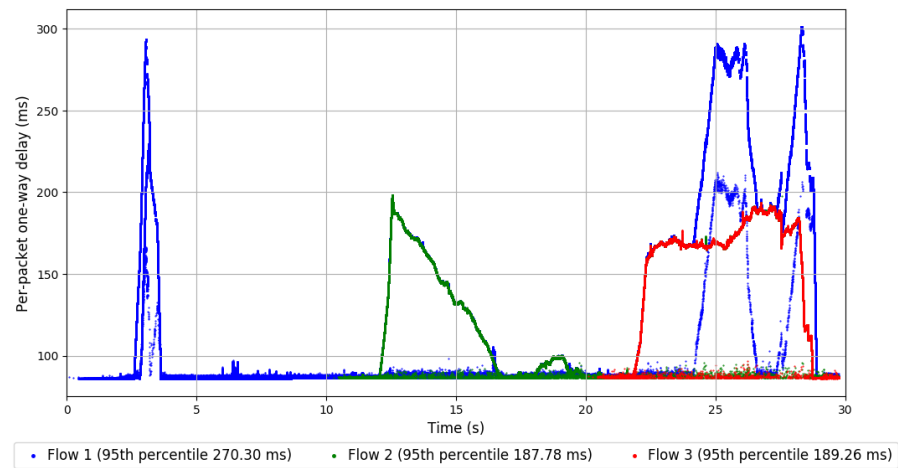
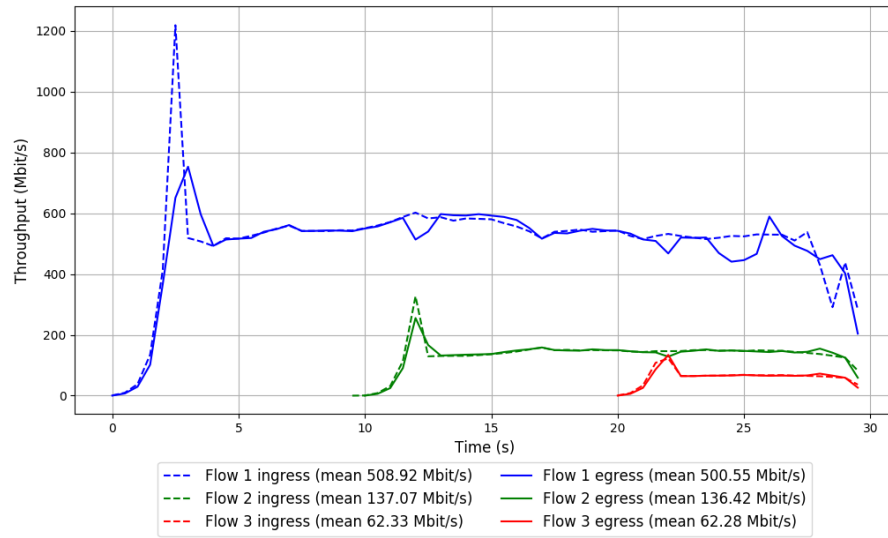
-- Flow 3:

Average throughput: 62.28 Mbit/s

95th percentile per-packet one-way delay: 189.260 ms

Loss rate: 1.87%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 21:23:28

End at: 2017-11-30 21:23:58

Below is generated by plot.py at 2017-12-01 00:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 598.02 Mbit/s

95th percentile per-packet one-way delay: 195.148 ms

Loss rate: 3.10%

-- Flow 1:

Average throughput: 535.07 Mbit/s

95th percentile per-packet one-way delay: 195.080 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 195.065 ms

Loss rate: 3.03%

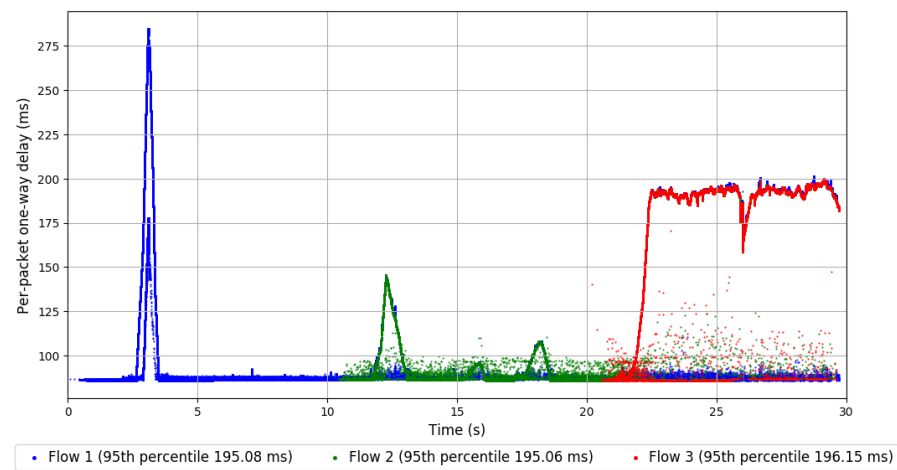
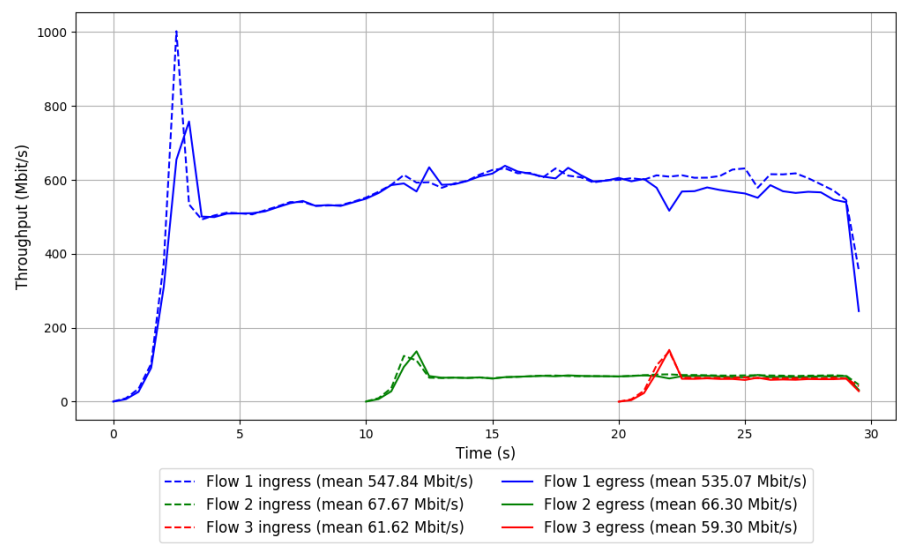
-- Flow 3:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 196.151 ms

Loss rate: 6.28%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 21:36:48

End at: 2017-11-30 21:37:18

Below is generated by plot.py at 2017-12-01 00:48:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.92 Mbit/s

95th percentile per-packet one-way delay: 196.903 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 570.74 Mbit/s

95th percentile per-packet one-way delay: 196.875 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 196.835 ms

Loss rate: 2.13%

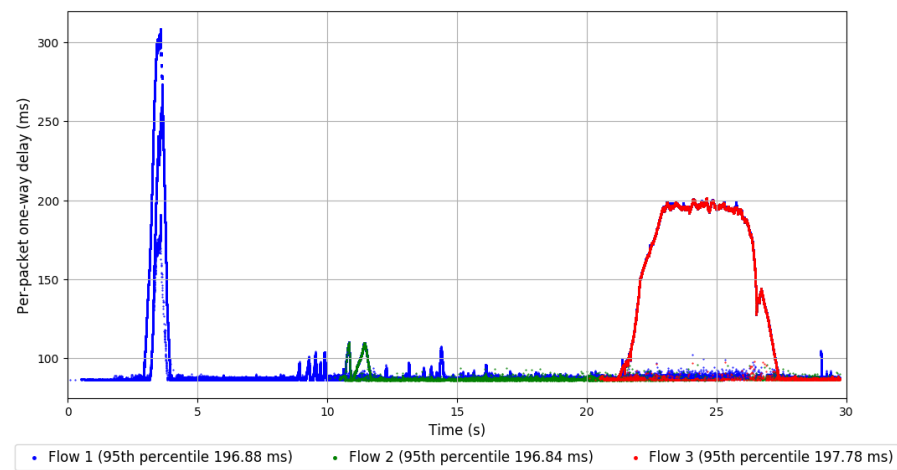
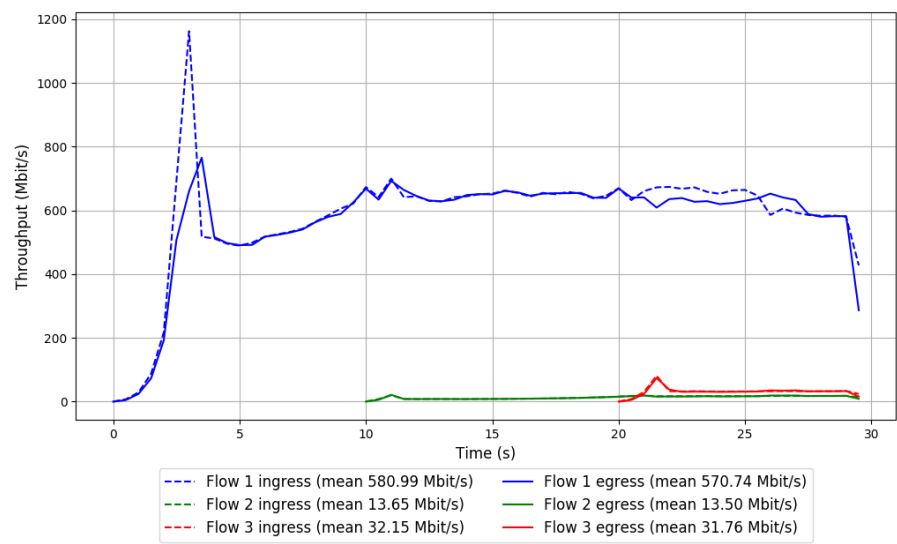
-- Flow 3:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 197.776 ms

Loss rate: 3.29%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 21:50:23

End at: 2017-11-30 21:50:53

Below is generated by plot.py at 2017-12-01 00:48:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.28 Mbit/s

95th percentile per-packet one-way delay: 203.719 ms

Loss rate: 3.85%

-- Flow 1:

Average throughput: 448.03 Mbit/s

95th percentile per-packet one-way delay: 213.617 ms

Loss rate: 3.89%

-- Flow 2:

Average throughput: 127.71 Mbit/s

95th percentile per-packet one-way delay: 199.170 ms

Loss rate: 3.10%

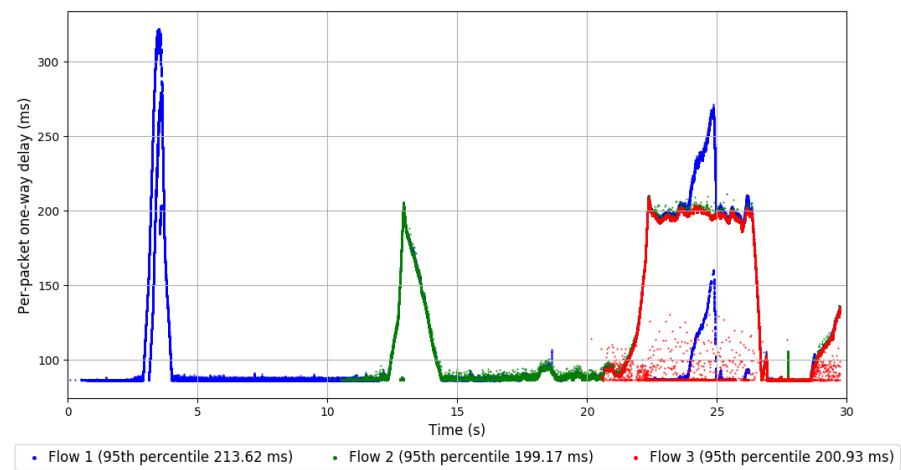
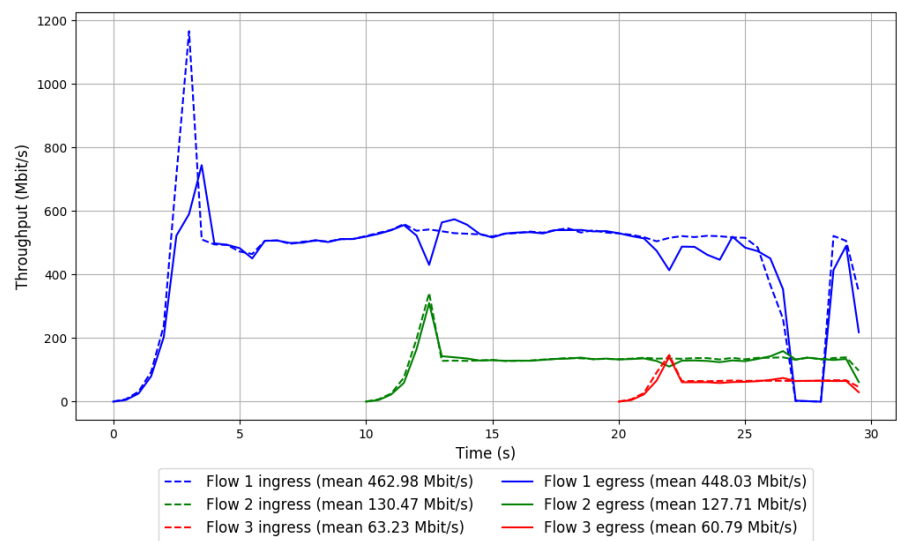
-- Flow 3:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 200.928 ms

Loss rate: 6.11%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 22:03:53

End at: 2017-11-30 22:04:23

Below is generated by plot.py at 2017-12-01 00:56:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 598.90 Mbit/s

95th percentile per-packet one-way delay: 194.676 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 565.37 Mbit/s

95th percentile per-packet one-way delay: 194.666 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 35.09 Mbit/s

95th percentile per-packet one-way delay: 194.322 ms

Loss rate: 2.37%

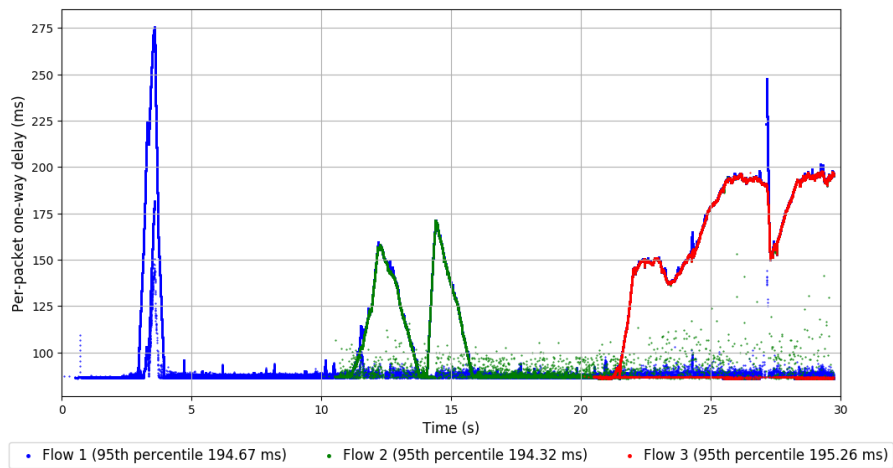
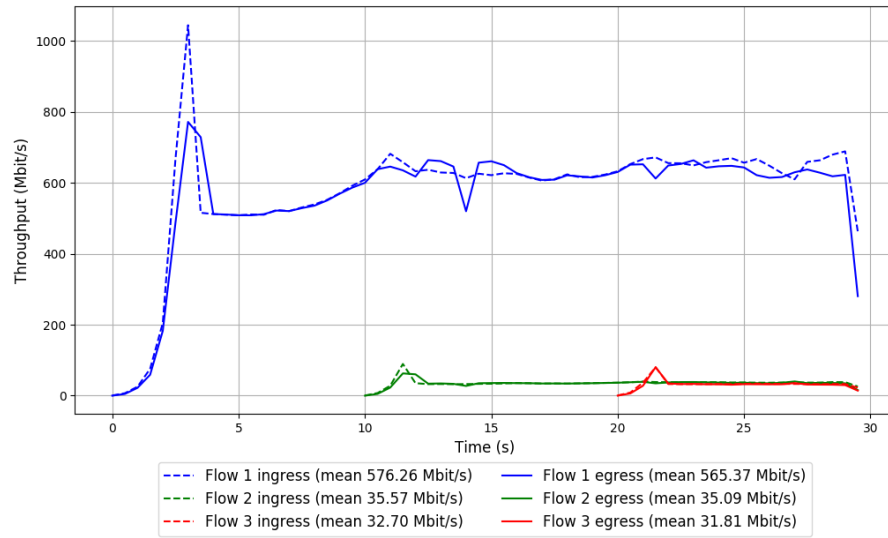
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 195.262 ms

Loss rate: 4.76%

Run 9: Report of PCC — Data Link

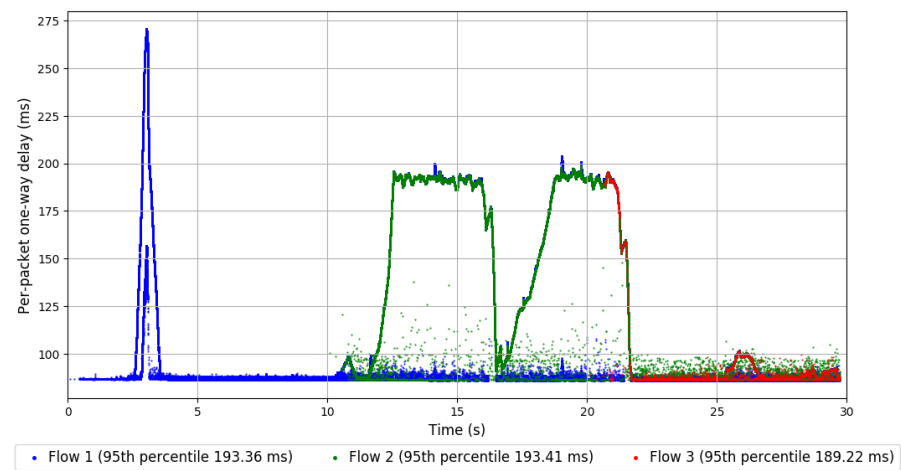
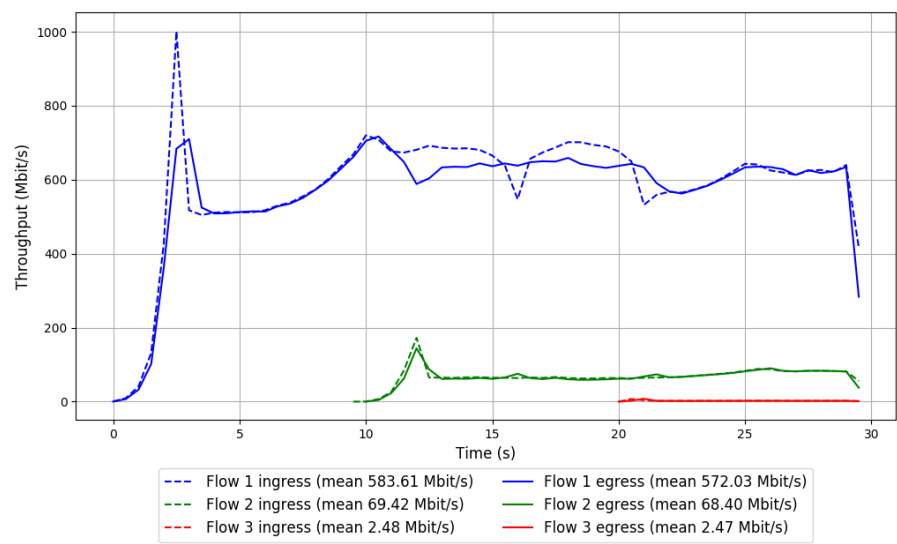


```
Run 10: Statistics of PCC

Start at: 2017-11-30 22:17:09
End at: 2017-11-30 22:17:39

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 618.07 Mbit/s
95th percentile per-packet one-way delay: 193.363 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 572.03 Mbit/s
95th percentile per-packet one-way delay: 193.361 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 68.40 Mbit/s
95th percentile per-packet one-way delay: 193.409 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 189.219 ms
Loss rate: 2.30%
```

Run 10: Report of PCC — Data Link

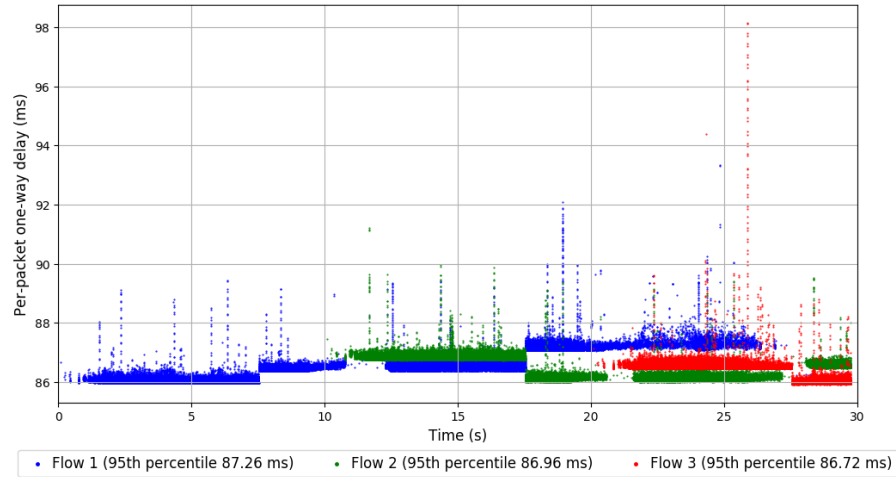
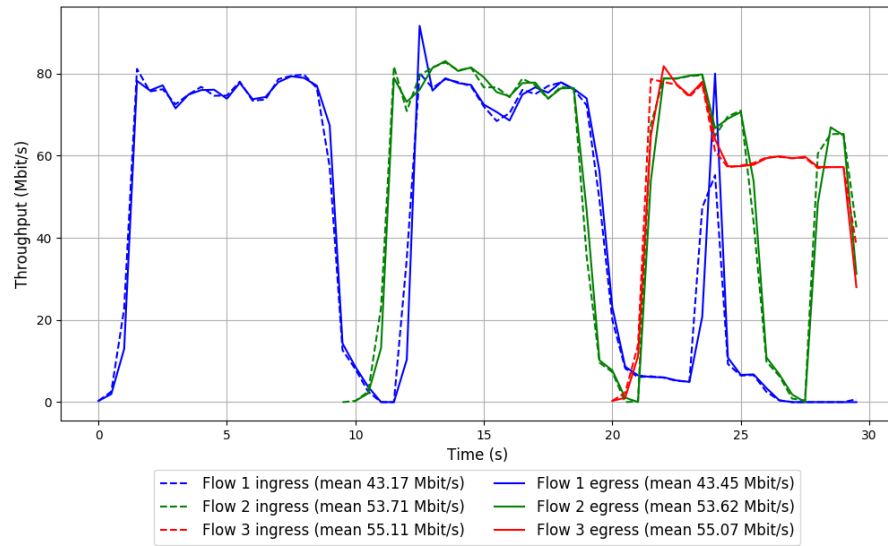


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 20:15:06
End at: 2017-11-30 20:15:36

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 87.179 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 43.45 Mbit/s
95th percentile per-packet one-way delay: 87.264 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 53.62 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 86.721 ms
Loss rate: 1.84%
```


Run 1: Report of QUIC Cubic — Data Link

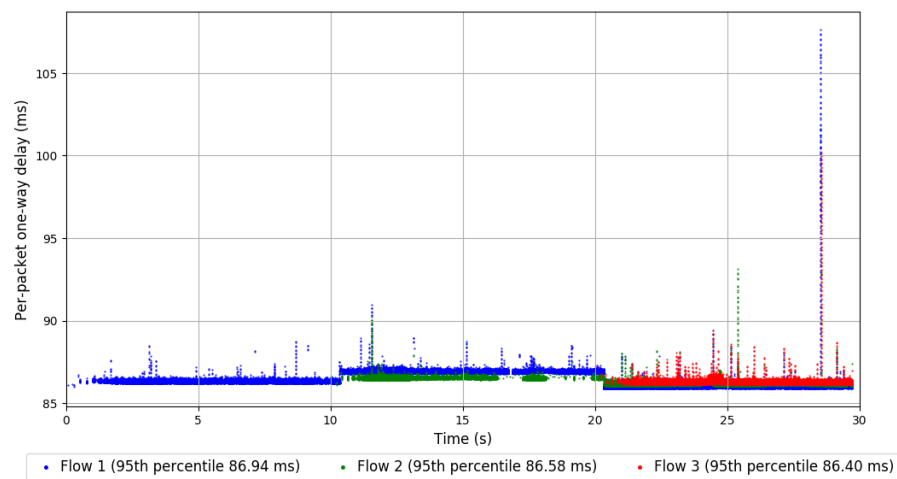
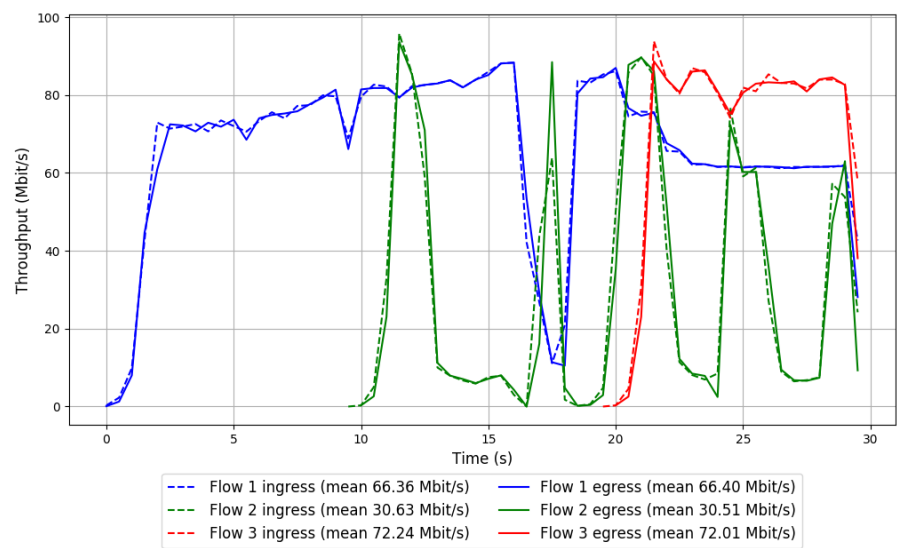


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 20:28:03
End at: 2017-11-30 20:28:33

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.11 Mbit/s
95th percentile per-packet one-way delay: 86.906 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 86.942 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 86.579 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 86.401 ms
Loss rate: 2.40%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 20:41:36

End at: 2017-11-30 20:42:06

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 86.955 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 52.45 Mbit/s

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

Loss rate: 1.03%

-- Flow 2:

Average throughput: 52.34 Mbit/s

95th percentile per-packet one-way delay: 86.767 ms

Loss rate: 0.54%

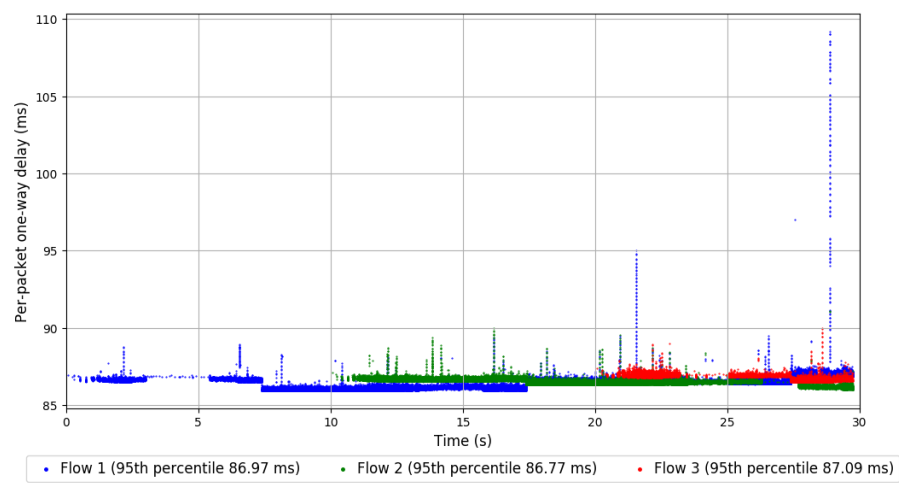
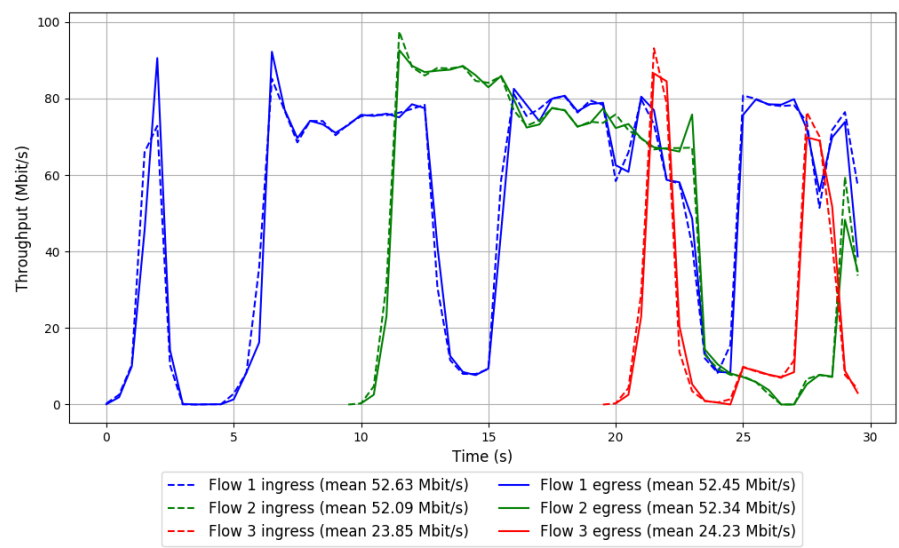
-- Flow 3:

Average throughput: 24.23 Mbit/s

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

Loss rate: 0.46%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 20:54:57

End at: 2017-11-30 20:55:27

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 86.764 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 86.723 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 44.33 Mbit/s

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

Loss rate: 0.17%

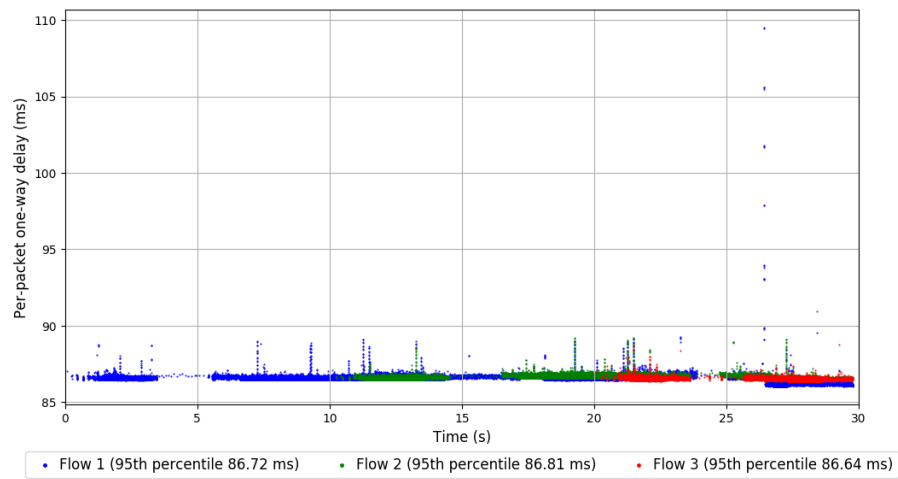
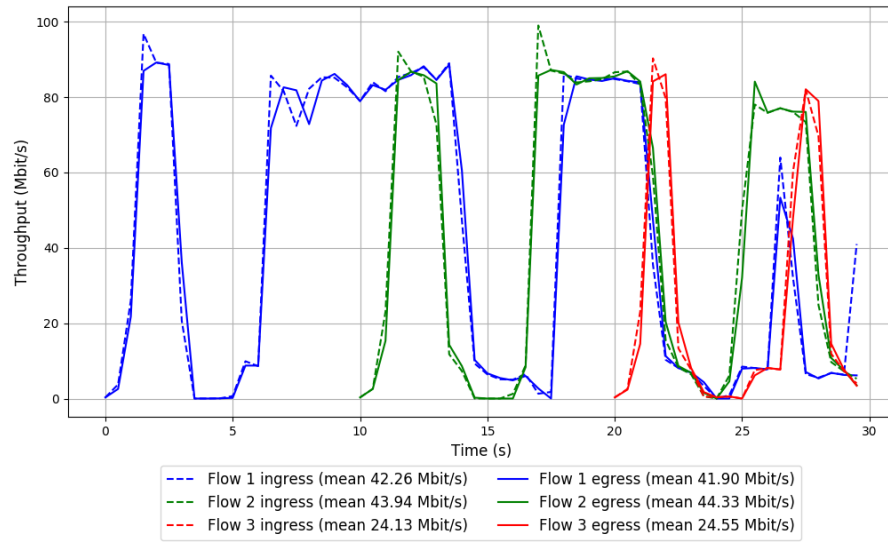
-- Flow 3:

Average throughput: 24.55 Mbit/s

95th percentile per-packet one-way delay: 86.640 ms

Loss rate: 0.37%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 21:08:17

End at: 2017-11-30 21:08:47

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.03 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 71.06 Mbit/s

95th percentile per-packet one-way delay: 86.934 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 86.647 ms

Loss rate: 0.41%

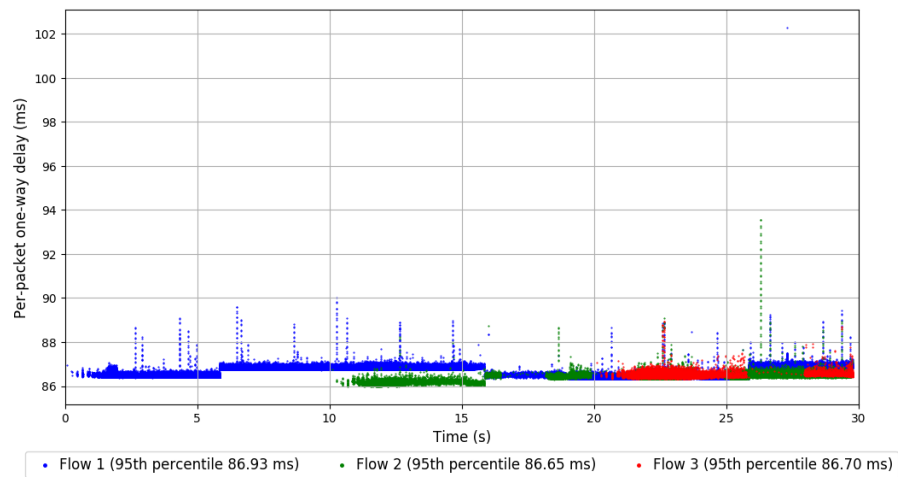
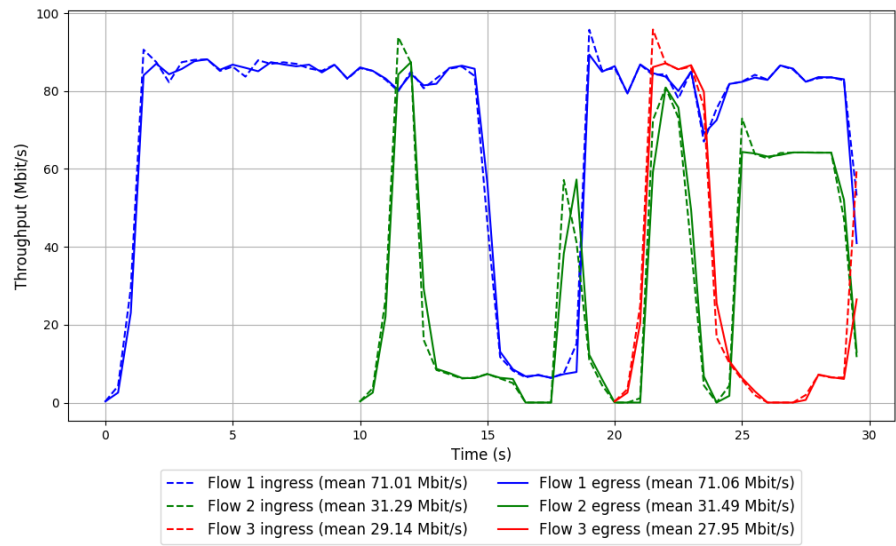
-- Flow 3:

Average throughput: 27.95 Mbit/s

95th percentile per-packet one-way delay: 86.705 ms

Loss rate: 6.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 21:21:49

End at: 2017-11-30 21:22:19

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.81 Mbit/s

95th percentile per-packet one-way delay: 86.895 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 86.948 ms

Loss rate: 0.09%

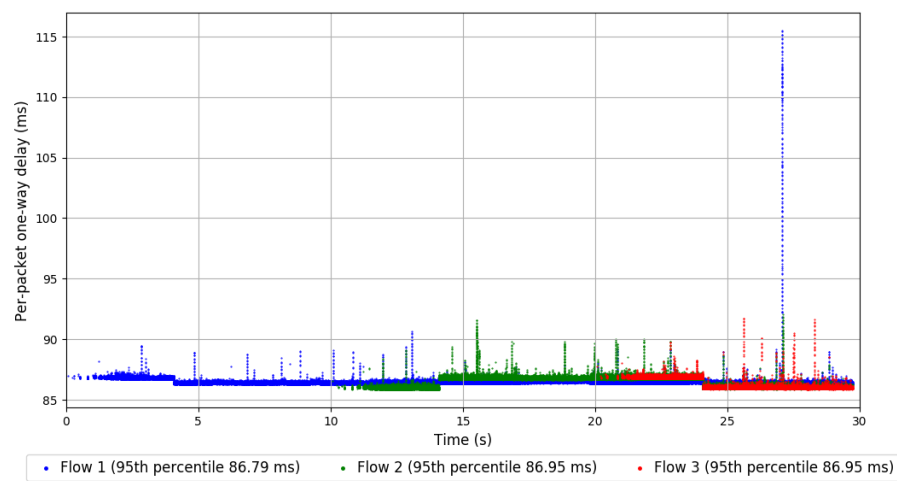
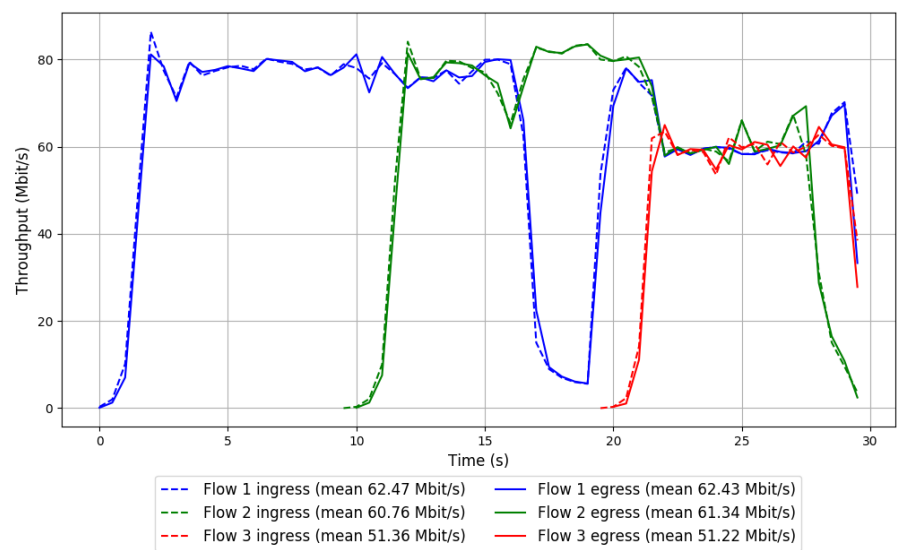
-- Flow 3:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 86.946 ms

Loss rate: 2.06%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 21:35:11

End at: 2017-11-30 21:35:41

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 86.692 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 42.42 Mbit/s

95th percentile per-packet one-way delay: 86.804 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 86.680 ms

Loss rate: 1.06%

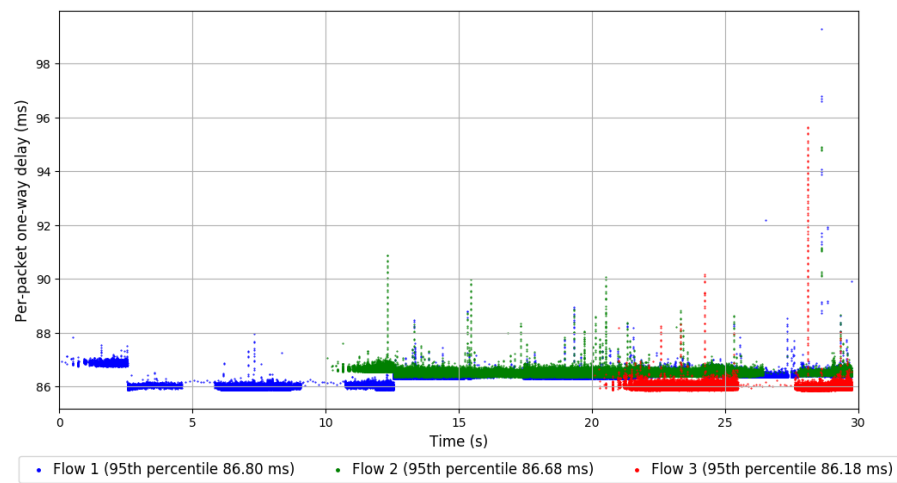
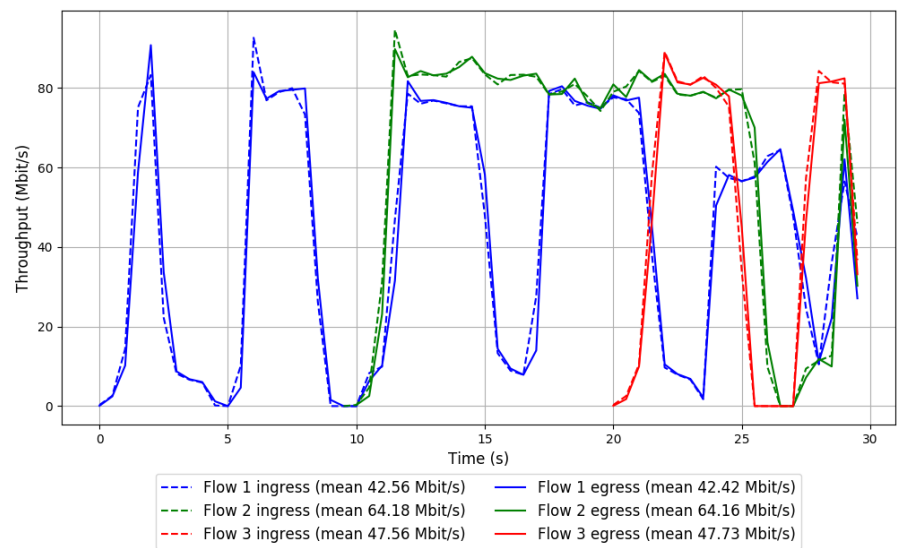
-- Flow 3:

Average throughput: 47.73 Mbit/s

95th percentile per-packet one-way delay: 86.183 ms

Loss rate: 1.70%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 21:48:45

End at: 2017-11-30 21:49:15

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.08 Mbit/s

95th percentile per-packet one-way delay: 86.865 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 86.896 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 86.711 ms

Loss rate: 0.46%

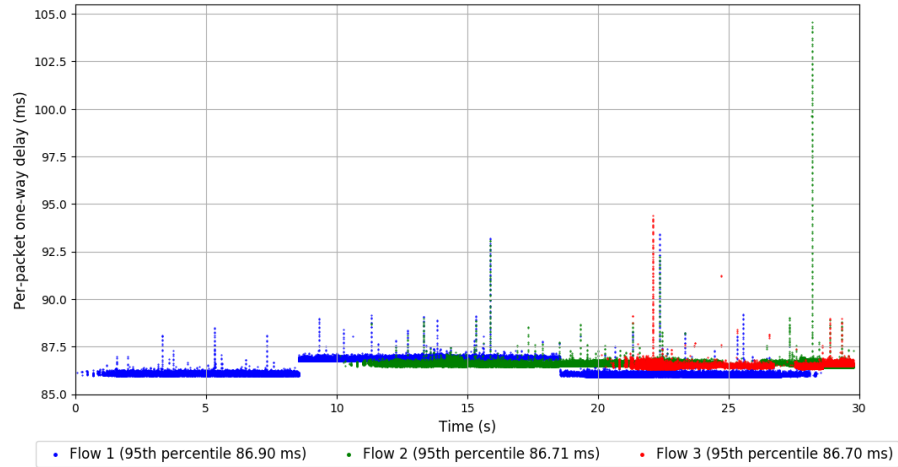
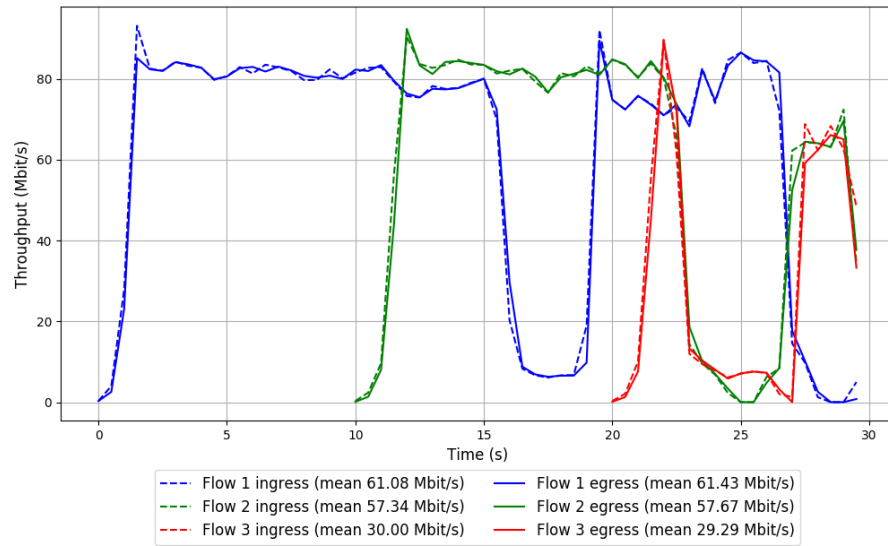
-- Flow 3:

Average throughput: 29.29 Mbit/s

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

Loss rate: 4.39%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 22:02:15

End at: 2017-11-30 22:02:45

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.87 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 66.58 Mbit/s

95th percentile per-packet one-way delay: 86.866 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 51.14 Mbit/s

95th percentile per-packet one-way delay: 86.526 ms

Loss rate: 1.50%

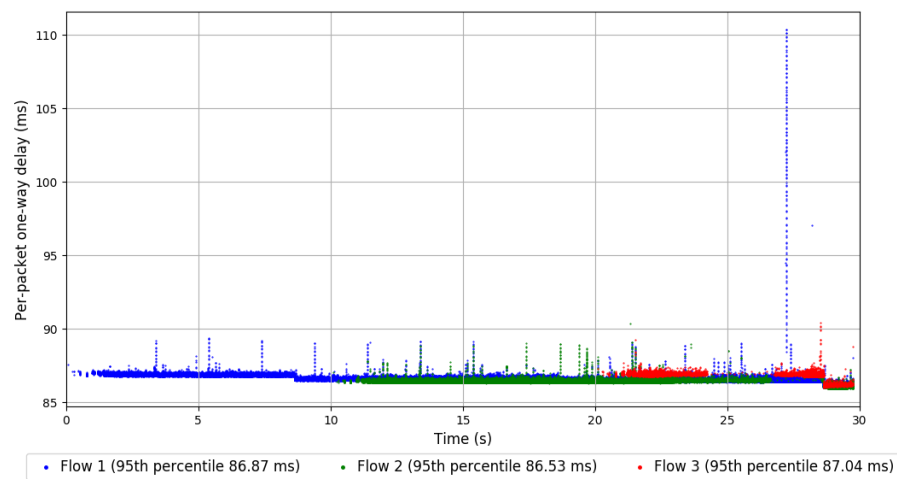
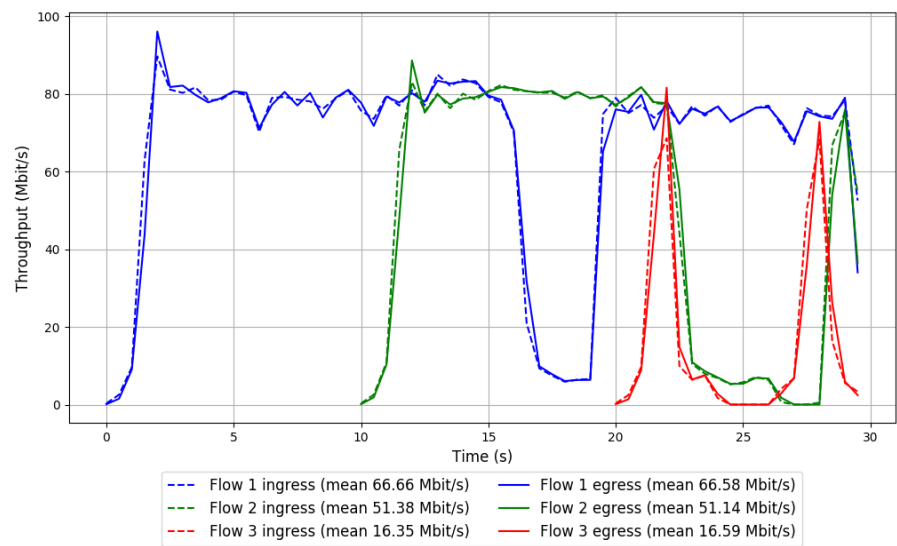
-- Flow 3:

Average throughput: 16.59 Mbit/s

95th percentile per-packet one-way delay: 87.038 ms

Loss rate: 0.55%

Run 9: Report of QUIC Cubic — Data Link

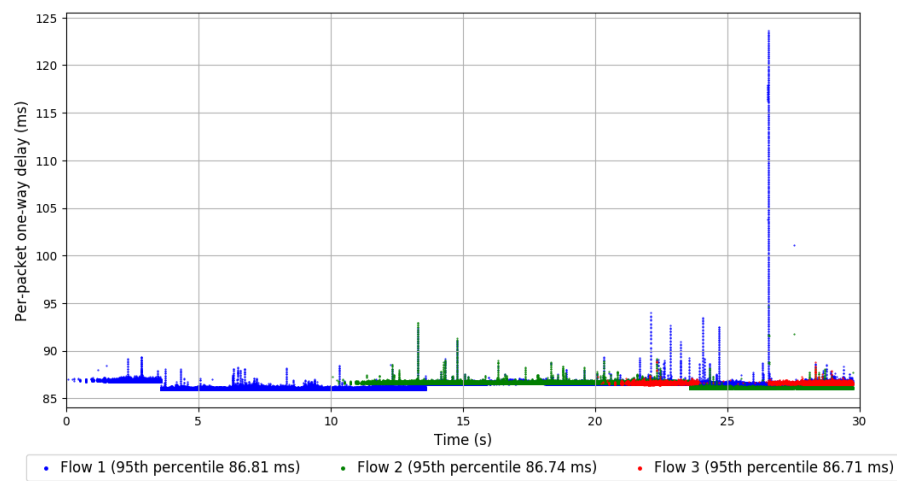
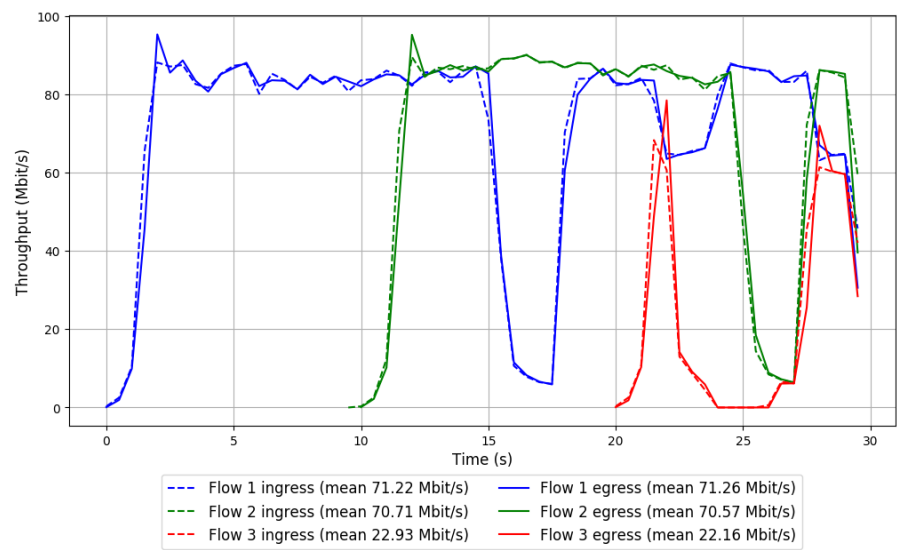


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 22:15:30
End at: 2017-11-30 22:16:00

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.23 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 86.806 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 70.57 Mbit/s
95th percentile per-packet one-way delay: 86.738 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 86.706 ms
Loss rate: 5.33%
```

Run 10: Report of QUIC Cubic — Data Link

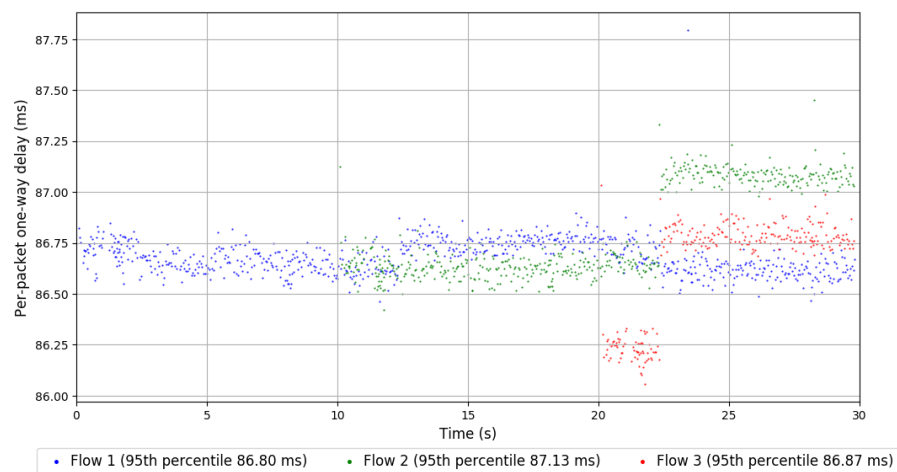
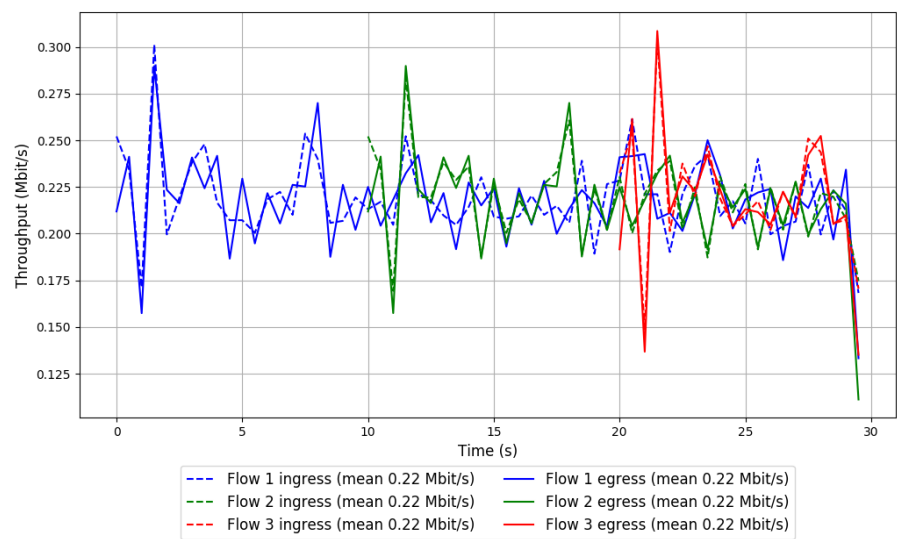


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 20:08:41
End at: 2017-11-30 20:09:11

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.095 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.803 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.127 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.872 ms
Loss rate: 1.53%
```

Run 1: Report of SCSReAM — Data Link

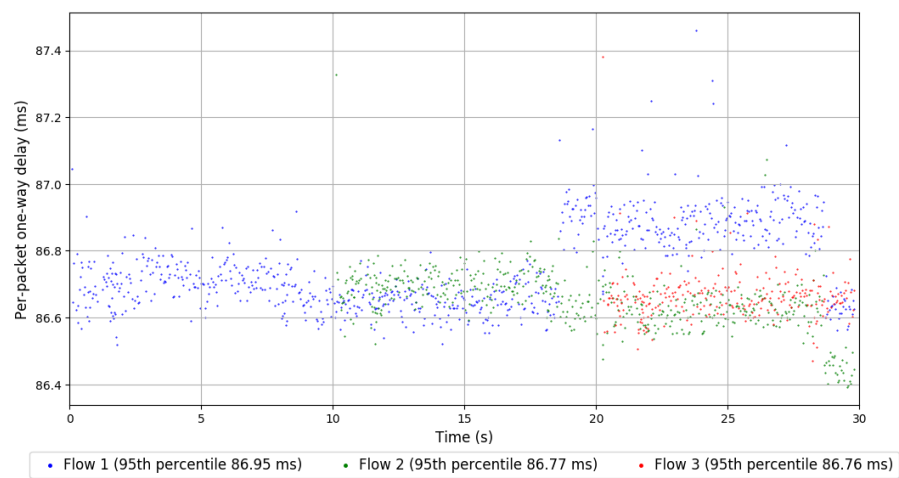
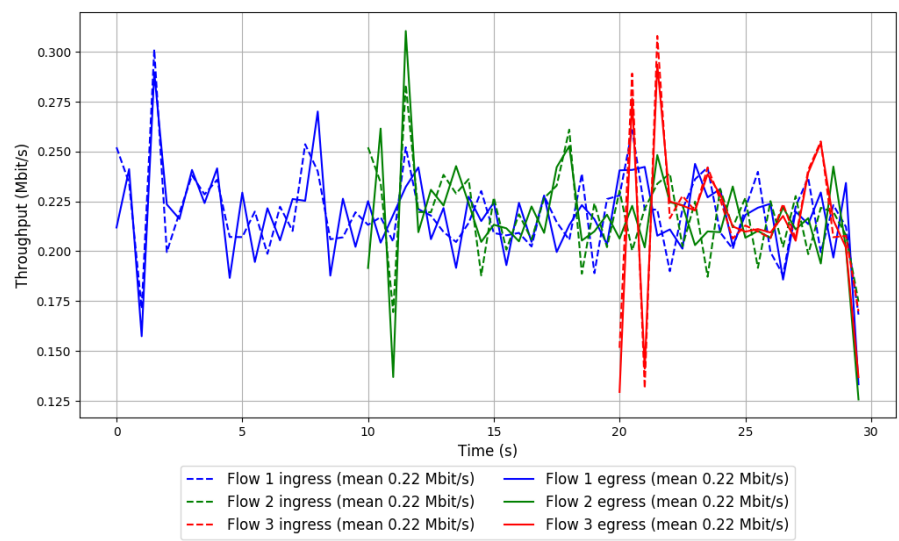


```
Run 2: Statistics of SReAM

Start at: 2017-11-30 20:21:45
End at: 2017-11-30 20:22:15

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.925 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.951 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.768 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.761 ms
Loss rate: 1.58%
```

Run 2: Report of SReAM — Data Link

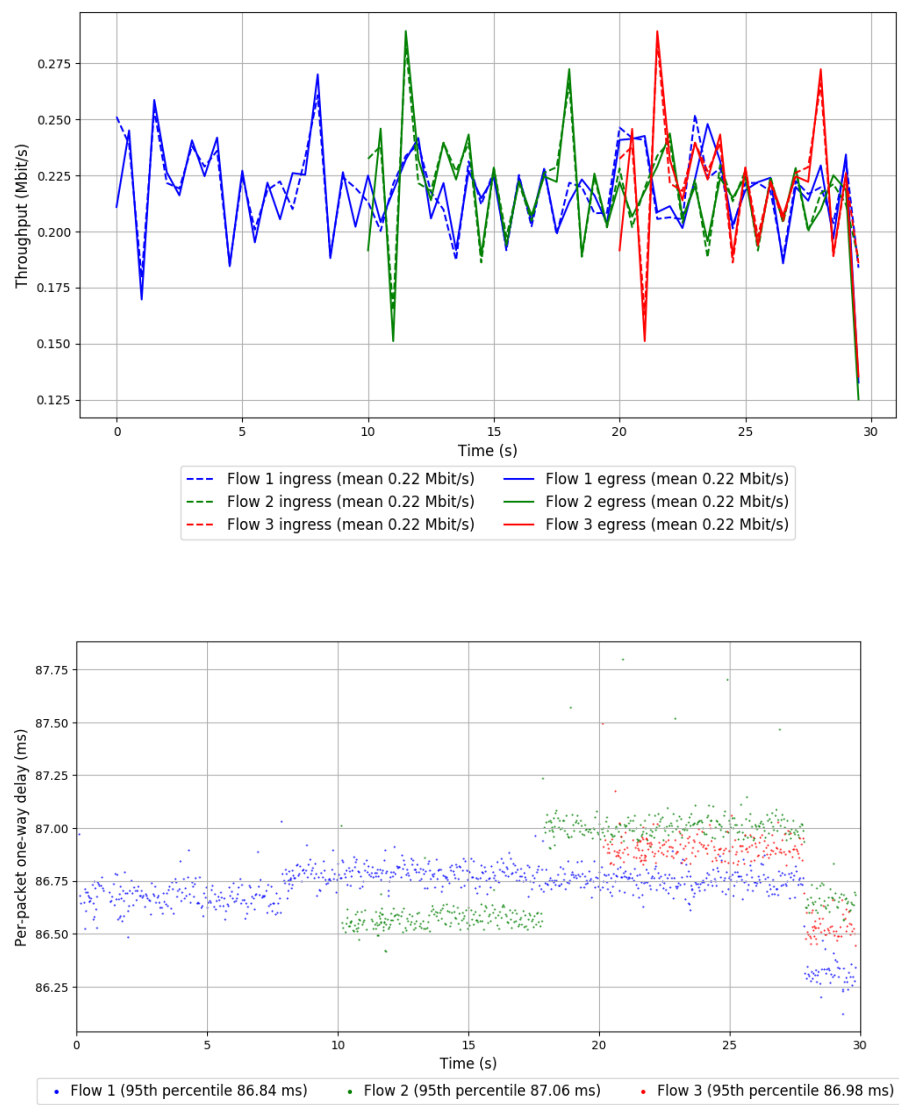


```
Run 3: Statistics of SReAM

Start at: 2017-11-30 20:35:05
End at: 2017-11-30 20:35:35

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.032 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.843 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.062 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.984 ms
Loss rate: 1.87%
```


Run 3: Report of SReAM — Data Link

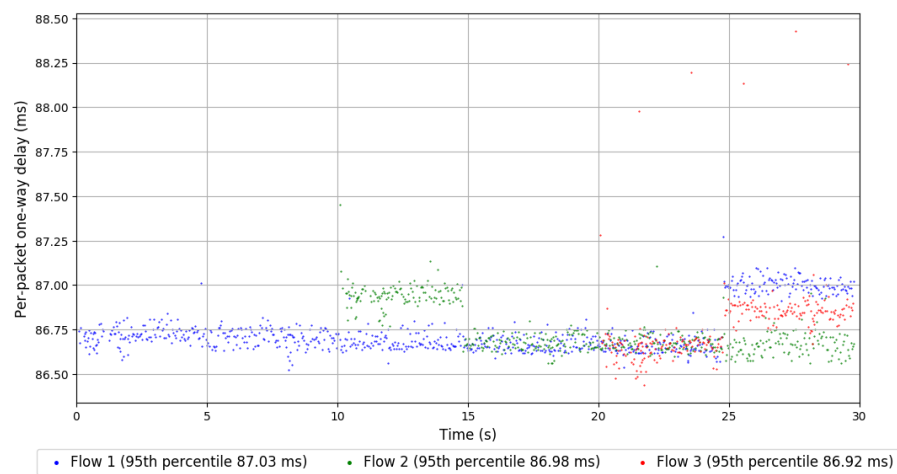
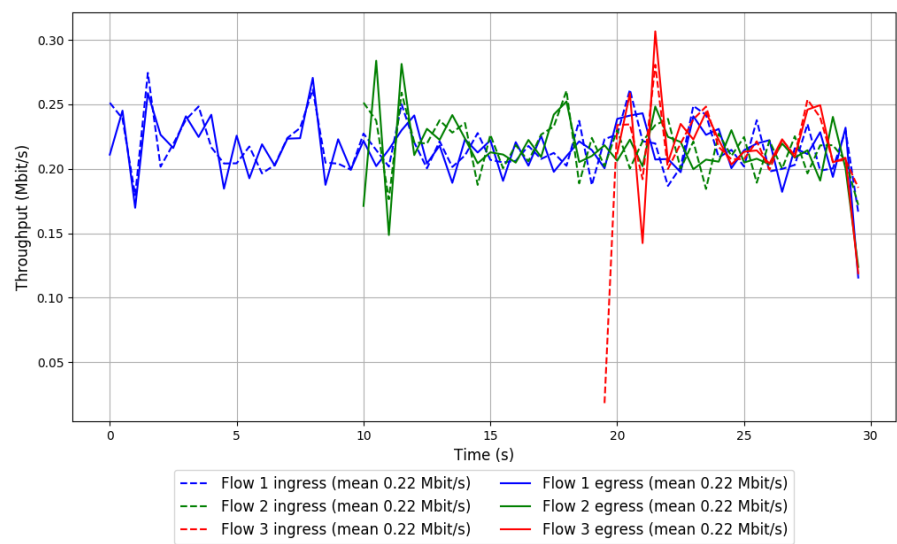


```
Run 4: Statistics of SReAM

Start at: 2017-11-30 20:48:28
End at: 2017-11-30 20:48:59

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.004 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.025 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.985 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.923 ms
Loss rate: 2.22%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-30 21:01:44

End at: 2017-11-30 21:02:14

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.096 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.810 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.141 ms

Loss rate: 0.85%

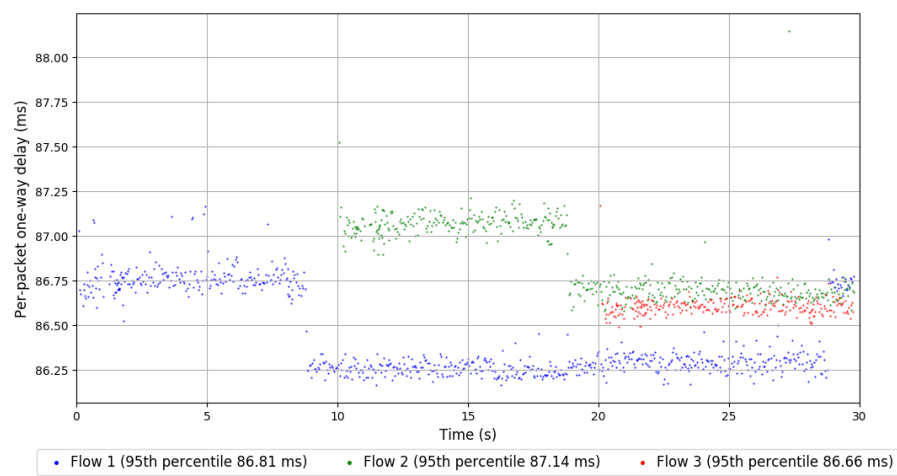
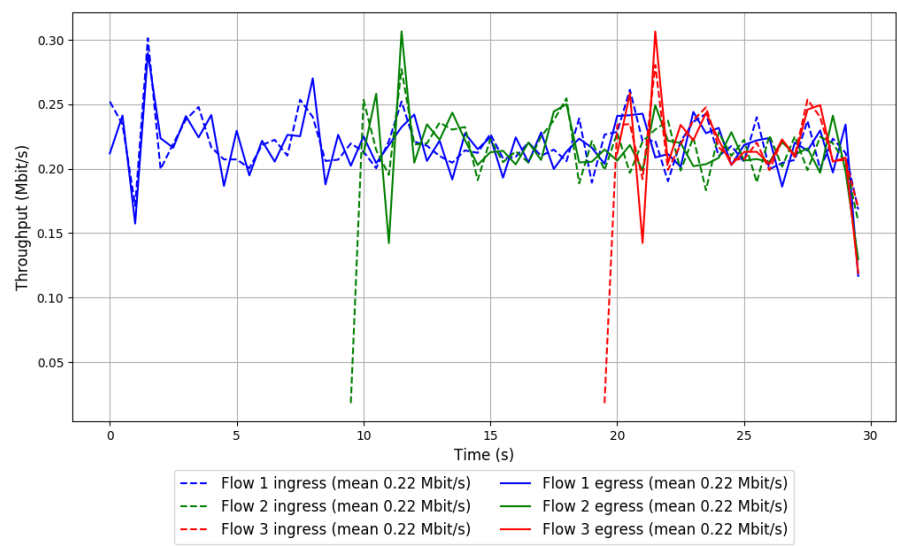
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 1.88%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-30 21:15:11

End at: 2017-11-30 21:15:41

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.881 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.902 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.679 ms

Loss rate: 1.04%

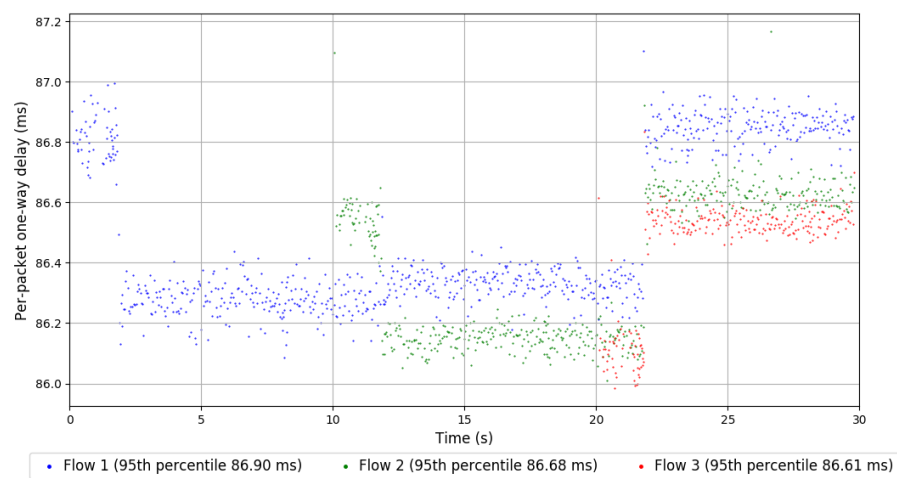
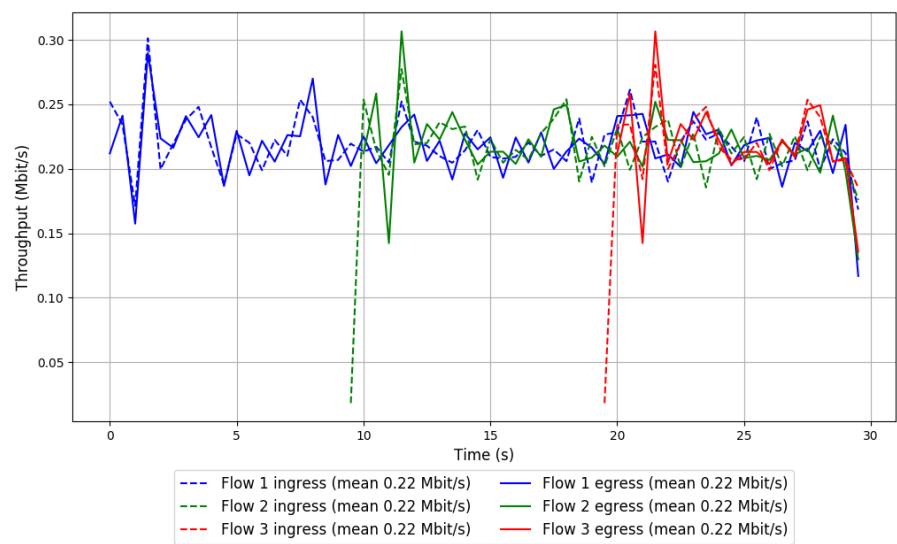
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.606 ms

Loss rate: 1.85%

Run 6: Report of SReAM — Data Link

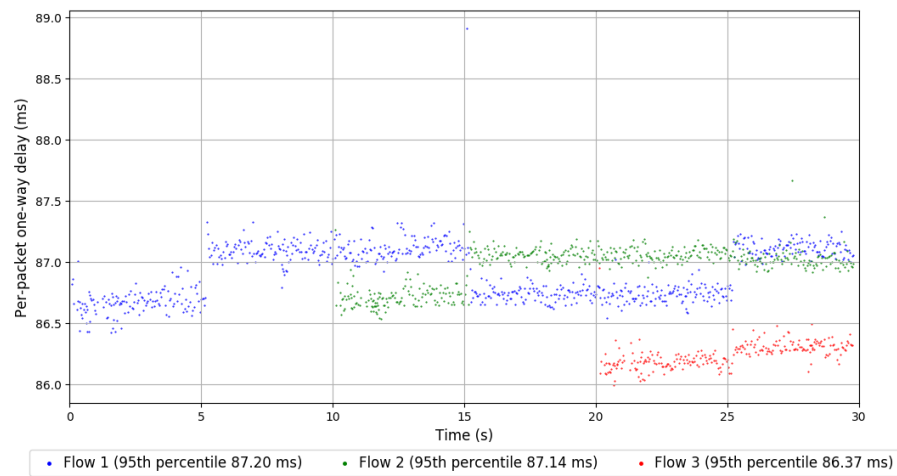
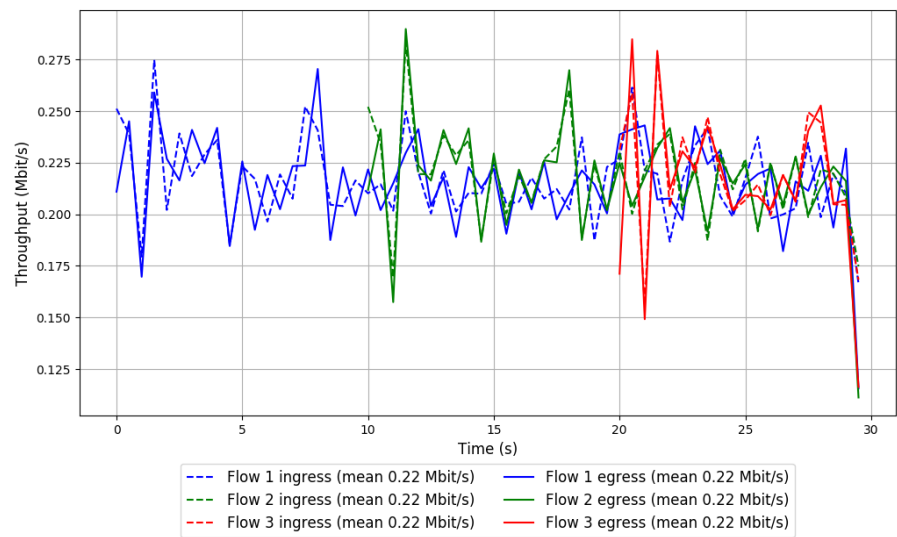


```
Run 7: Statistics of SReAM

Start at: 2017-11-30 21:28:48
End at: 2017-11-30 21:29:18

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.173 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.203 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.135 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.369 ms
Loss rate: 1.91%
```


Run 7: Report of SReAM — Data Link

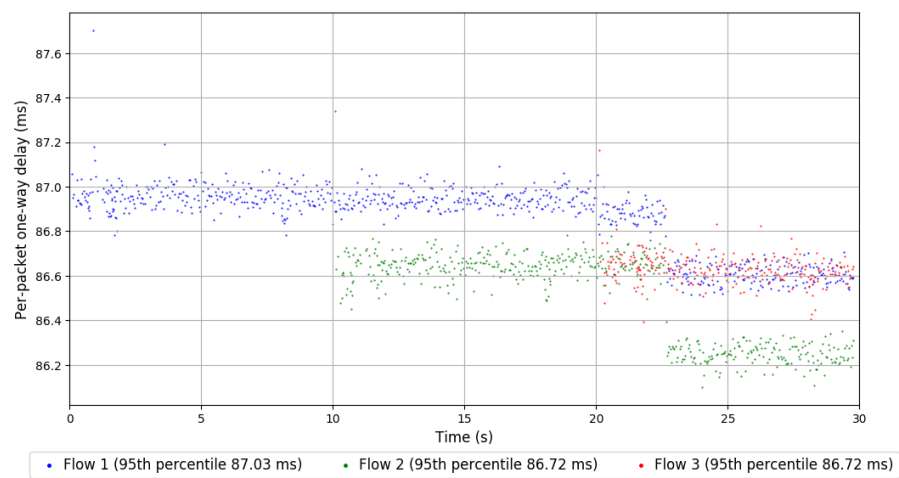
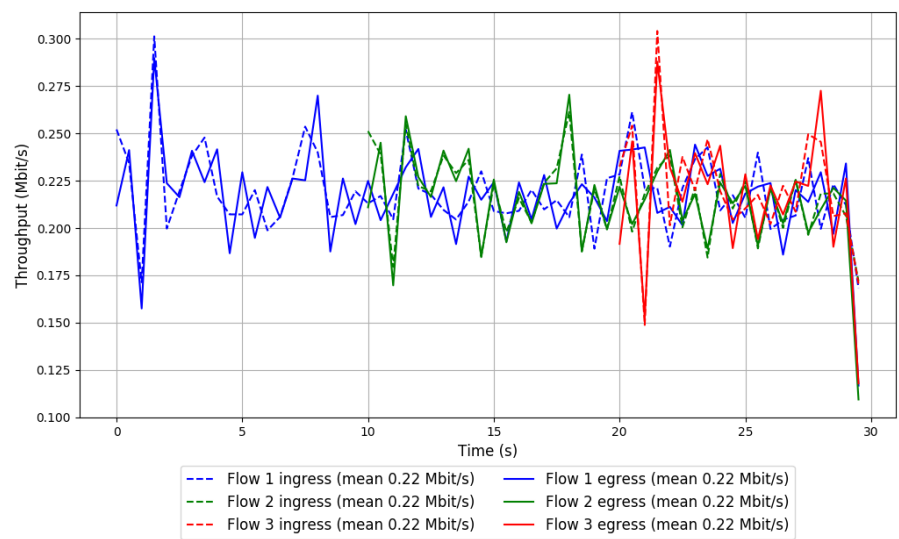


```
Run 8: Statistics of SReAM

Start at: 2017-11-30 21:42:11
End at: 2017-11-30 21:42:41

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.005 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.026 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.722 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.725 ms
Loss rate: 1.92%
```

Run 8: Report of SReAM — Data Link

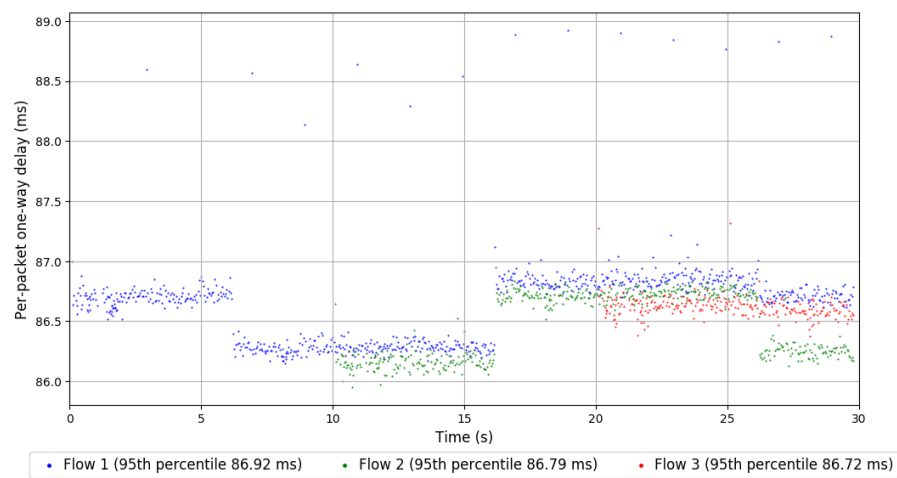
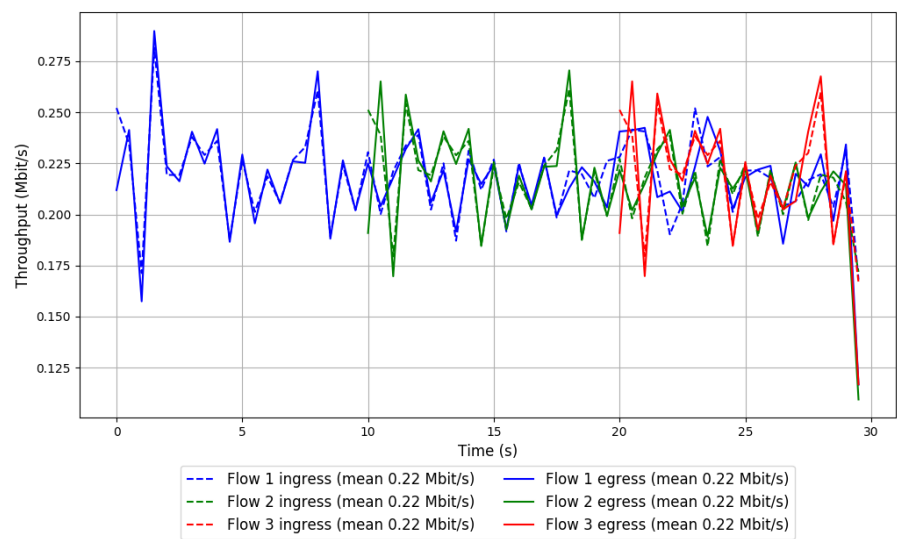


```
Run 9: Statistics of SReAM

Start at: 2017-11-30 21:55:37
End at: 2017-11-30 21:56:07

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.882 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.919 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.791 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.718 ms
Loss rate: 1.87%
```

Run 9: Report of SReAM — Data Link

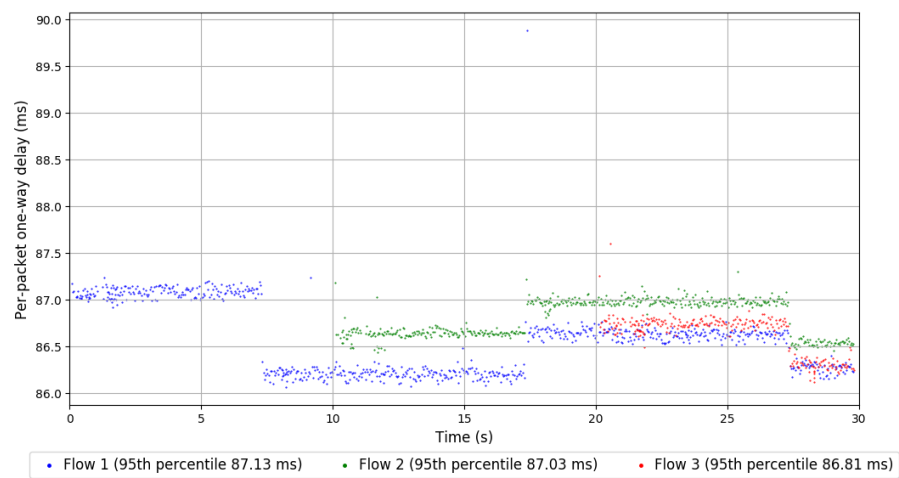
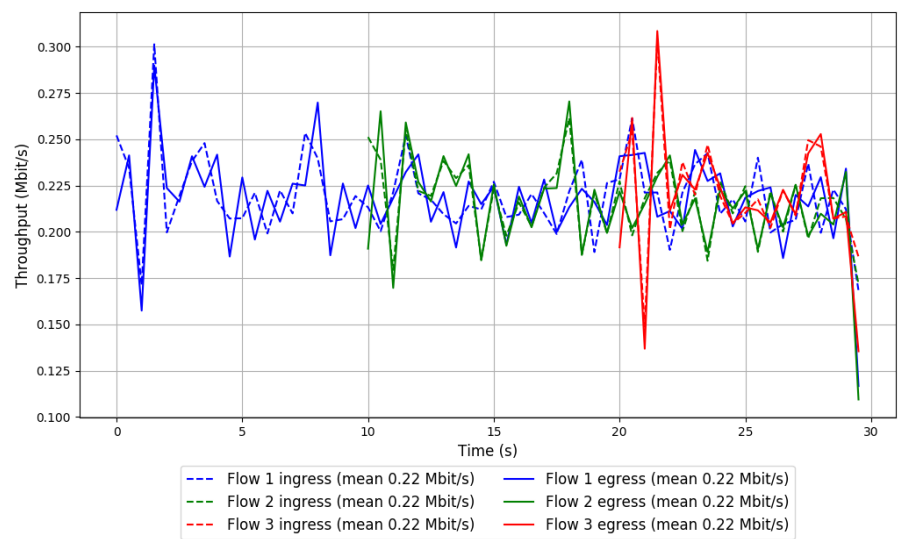


```
Run 10: Statistics of SReAM

Start at: 2017-11-30 22:09:06
End at: 2017-11-30 22:09:36

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.106 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.130 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.030 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.815 ms
Loss rate: 1.88%
```

Run 10: Report of SReAM — Data Link

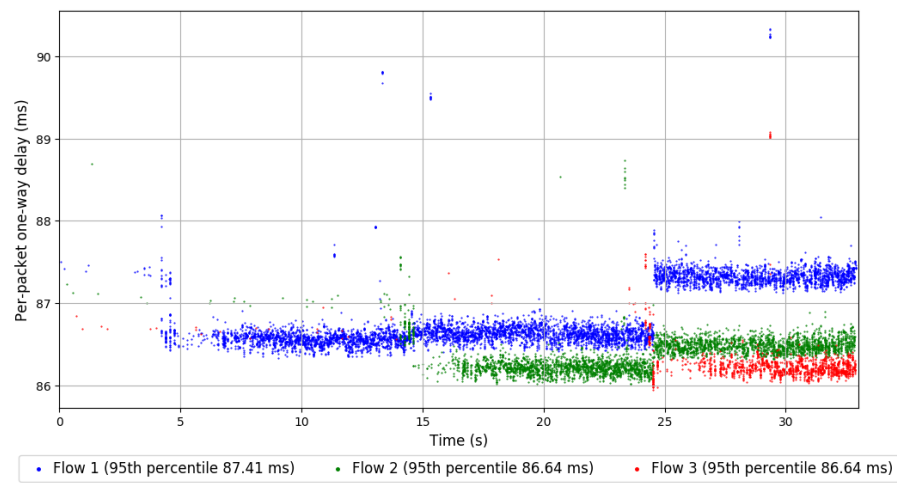
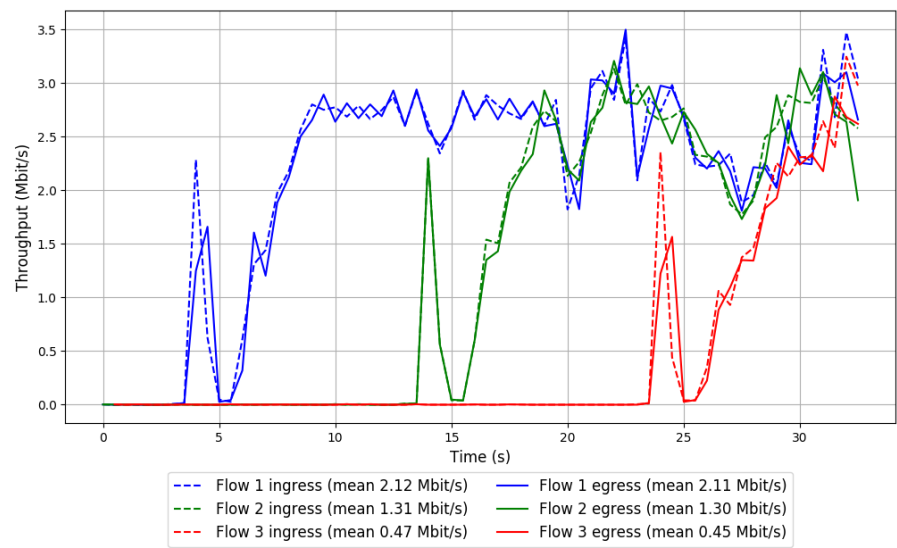


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 20:14:22
End at: 2017-11-30 20:14:52

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 87.375 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 87.413 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 86.641 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.645 ms
Loss rate: 4.38%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 20:27:19

End at: 2017-11-30 20:27:49

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 87.134 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 1.28 Mbit/s

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

Loss rate: 1.40%

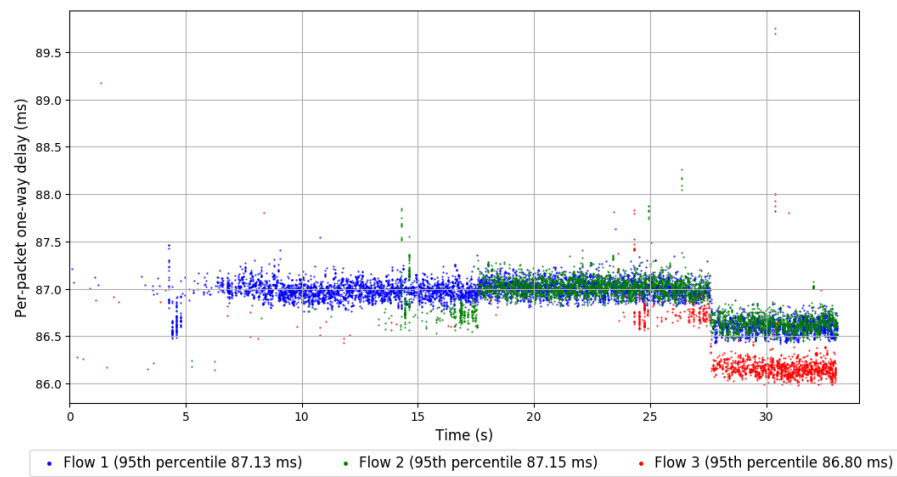
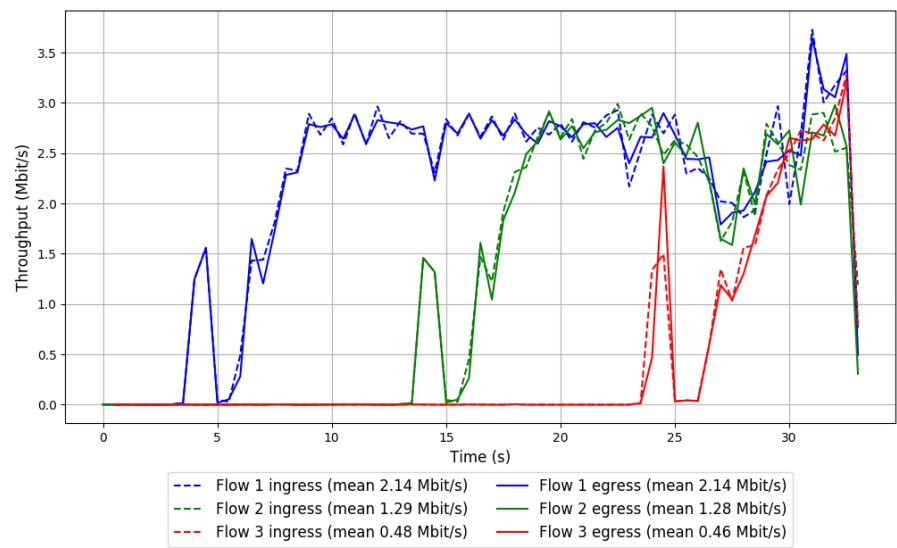
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 4.19%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 20:40:51

End at: 2017-11-30 20:41:21

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.165 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 87.189 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 1.98%

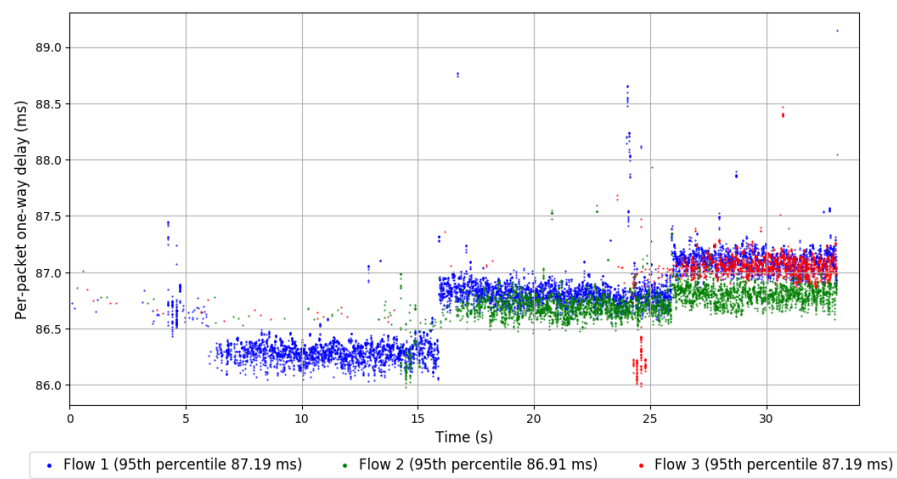
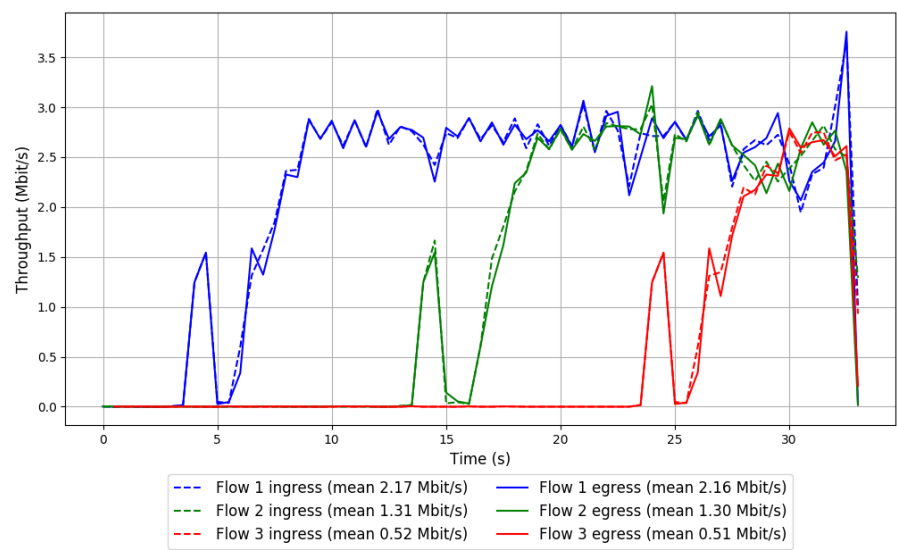
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 87.191 ms

Loss rate: 3.45%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 20:54:11

End at: 2017-11-30 20:54:41

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 86.770 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 2.15 Mbit/s

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

Loss rate: 1.26%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.695 ms

Loss rate: 1.17%

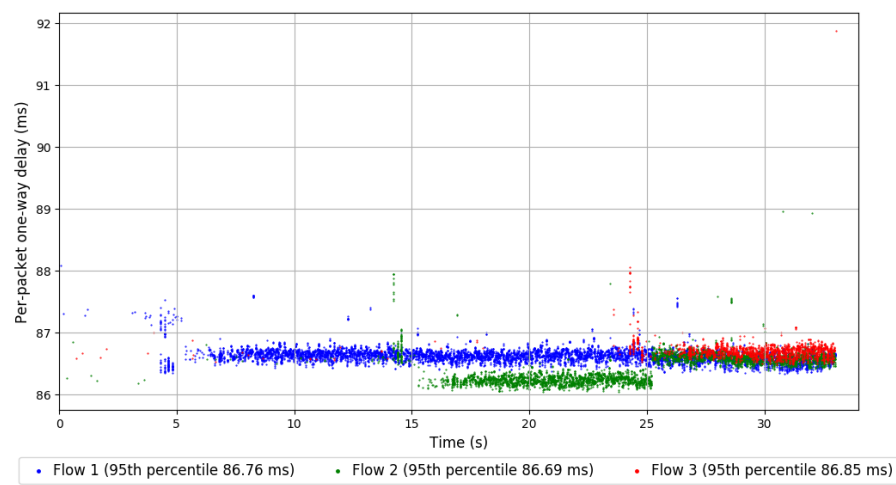
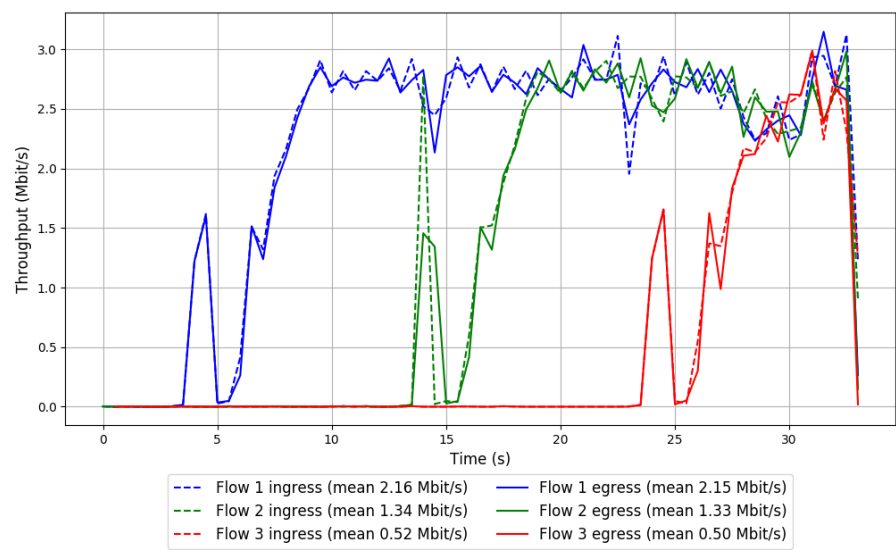
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.849 ms

Loss rate: 4.33%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 21:07:32

End at: 2017-11-30 21:08:02

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 86.826 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 86.585 ms

Loss rate: 1.45%

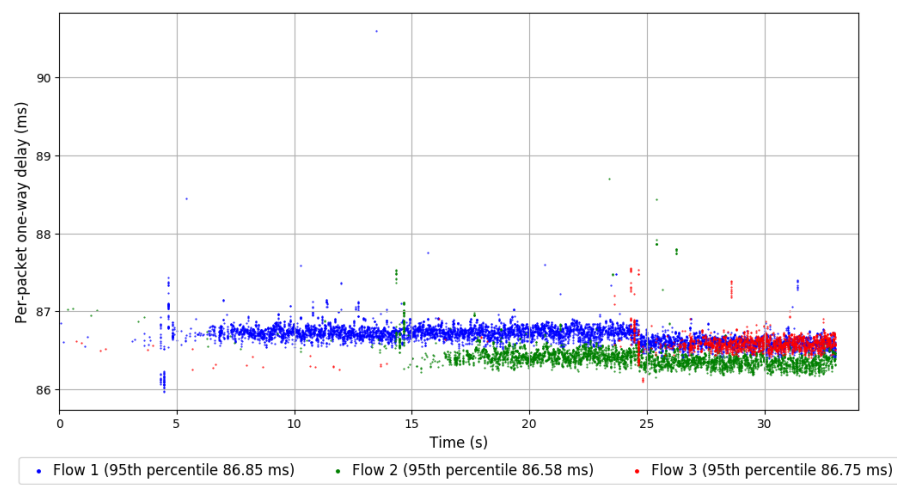
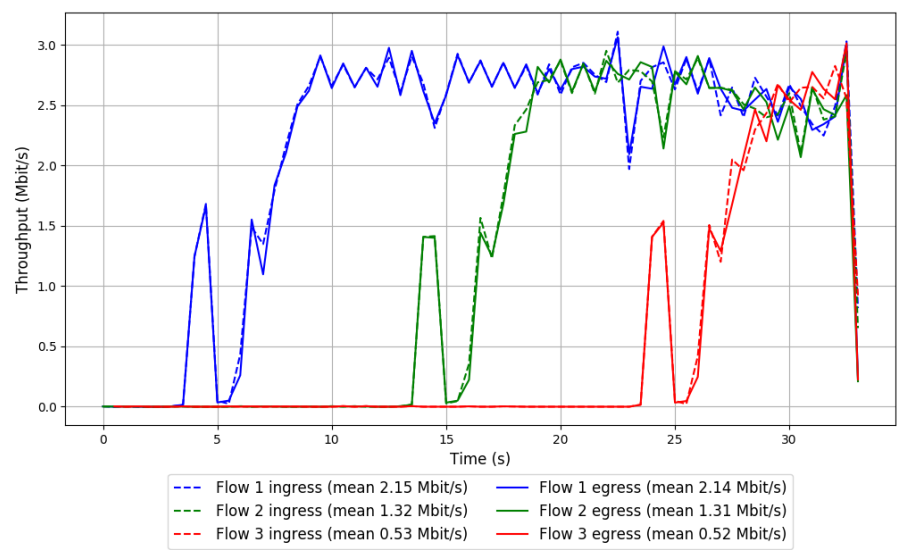
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 86.746 ms

Loss rate: 2.69%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 21:21:04

End at: 2017-11-30 21:21:34

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

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

Loss rate: 1.28%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 86.821 ms

Loss rate: 1.38%

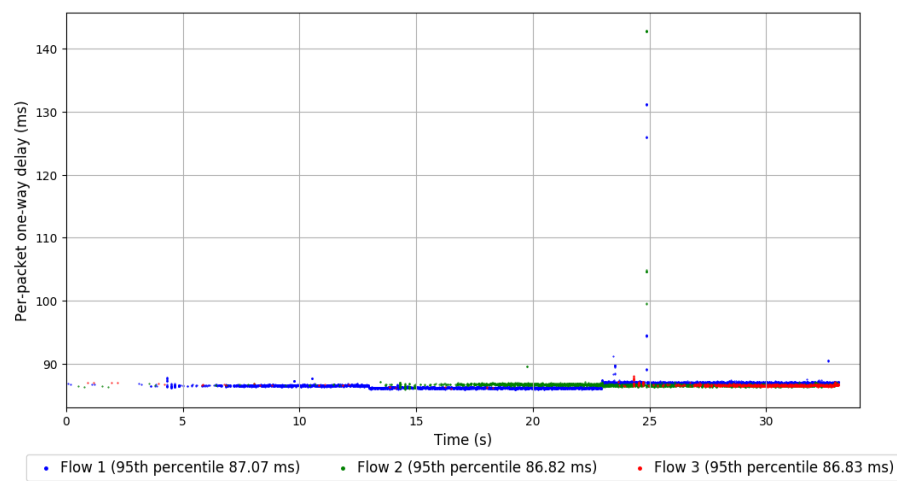
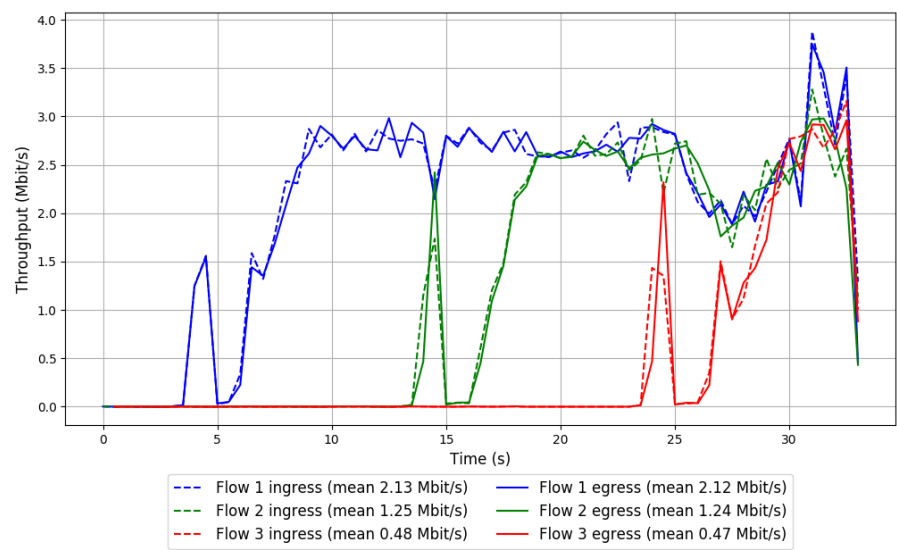
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.829 ms

Loss rate: 3.24%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 21:34:25

End at: 2017-11-30 21:34:55

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 87.096 ms

Loss rate: 1.15%

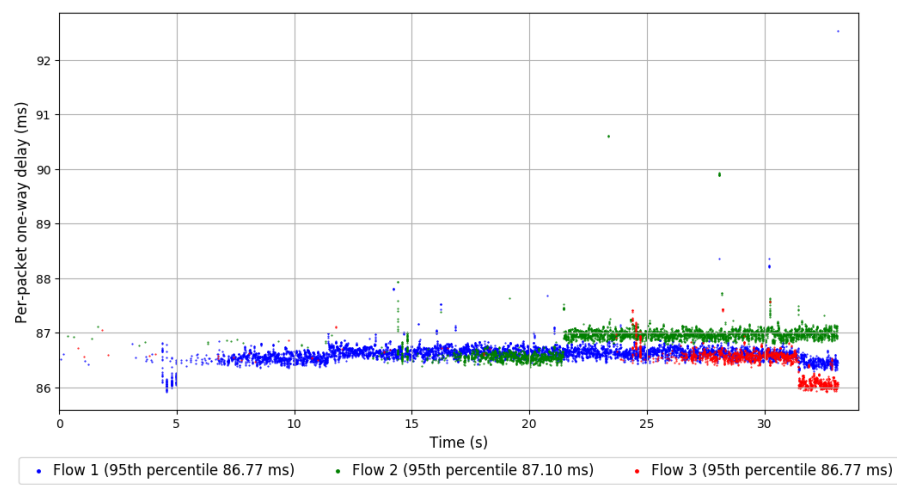
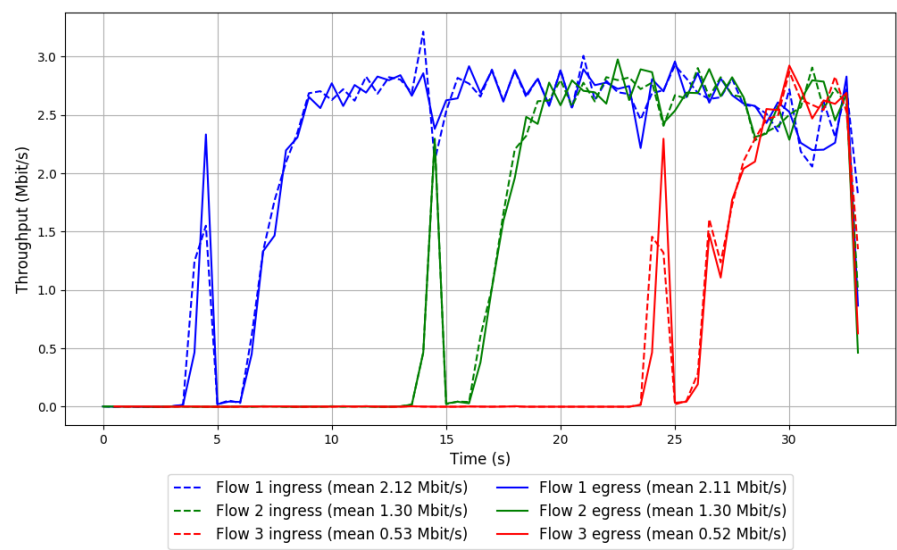
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 3.24%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 21:47:59

End at: 2017-11-30 21:48:29

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

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

Loss rate: 1.34%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 86.636 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 86.837 ms

Loss rate: 1.66%

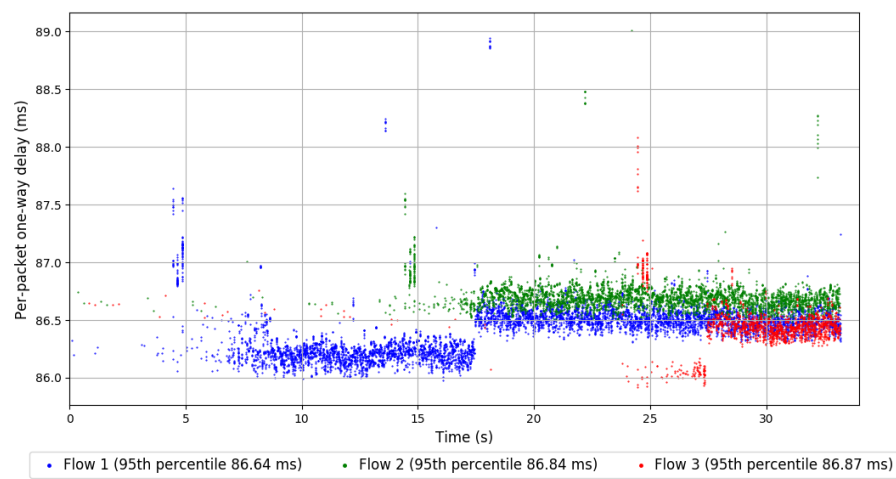
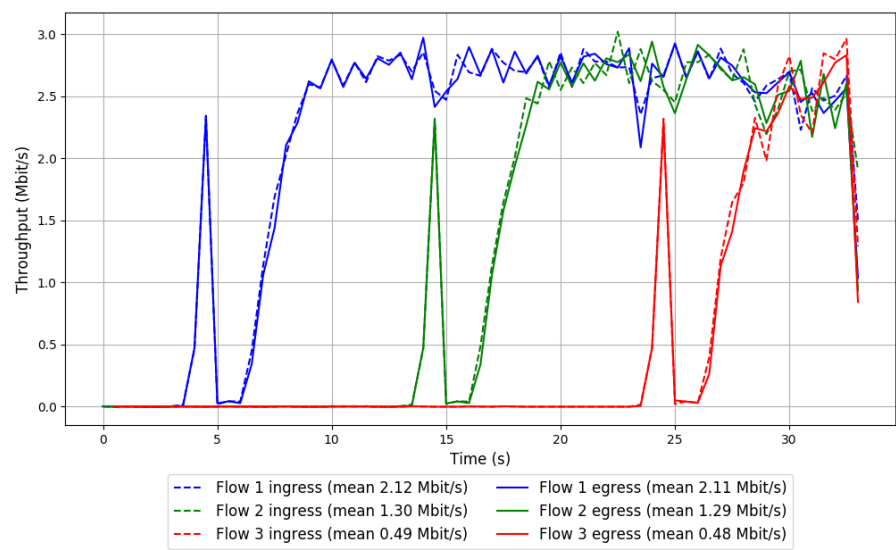
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 86.873 ms

Loss rate: 3.36%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 22:01:29

End at: 2017-11-30 22:01:59

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 86.748 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 86.680 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.770 ms

Loss rate: 0.77%

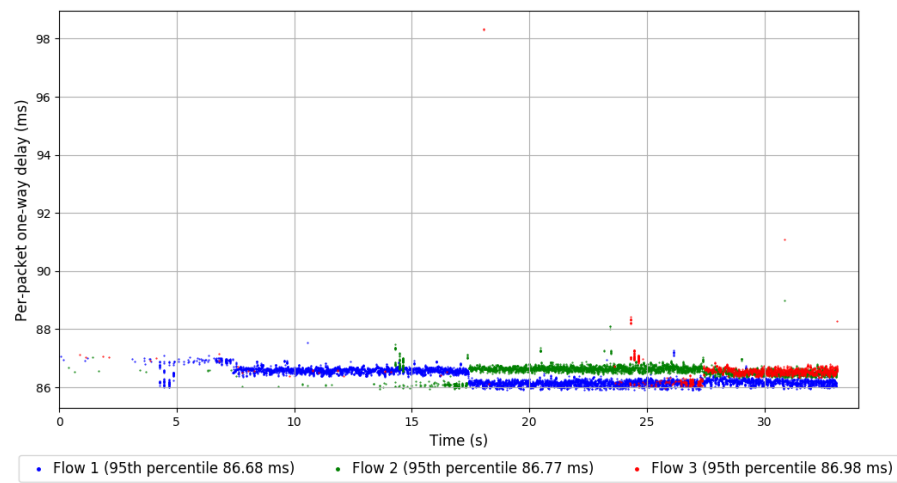
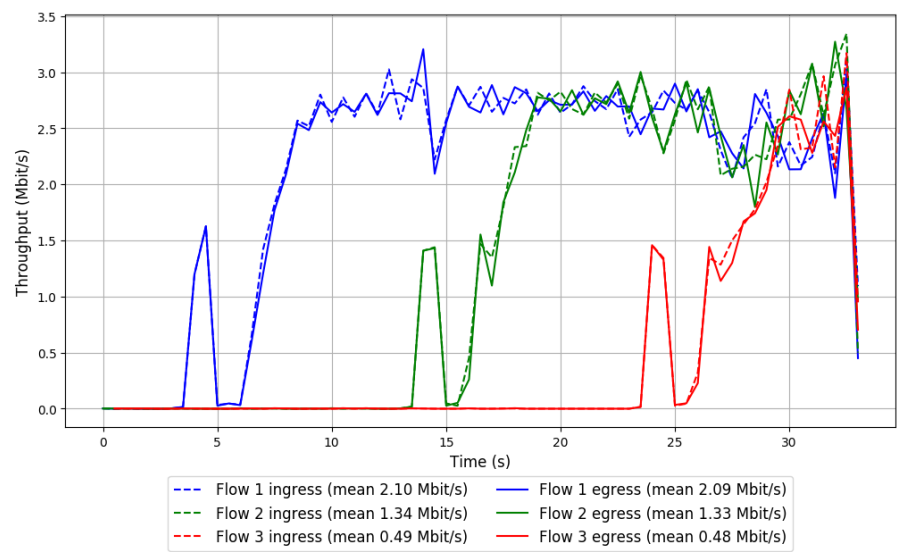
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 86.982 ms

Loss rate: 2.97%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 22:14:44

End at: 2017-11-30 22:15:14

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 86.771 ms

Loss rate: 1.25%

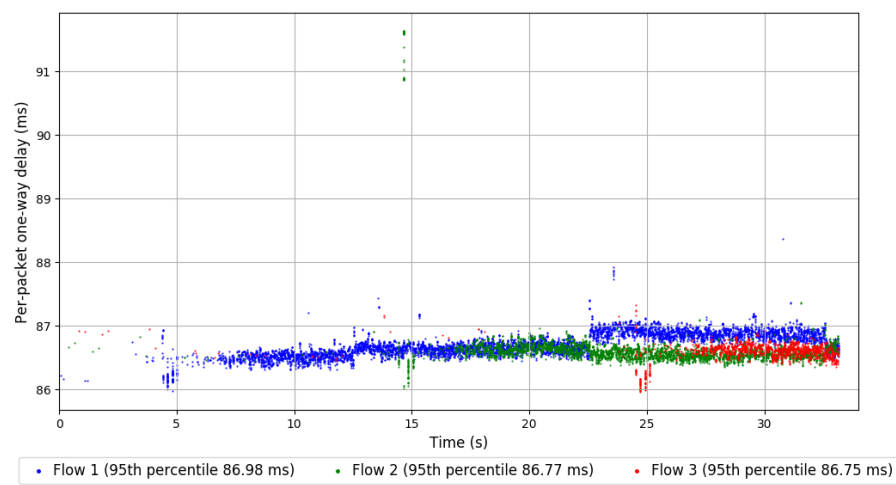
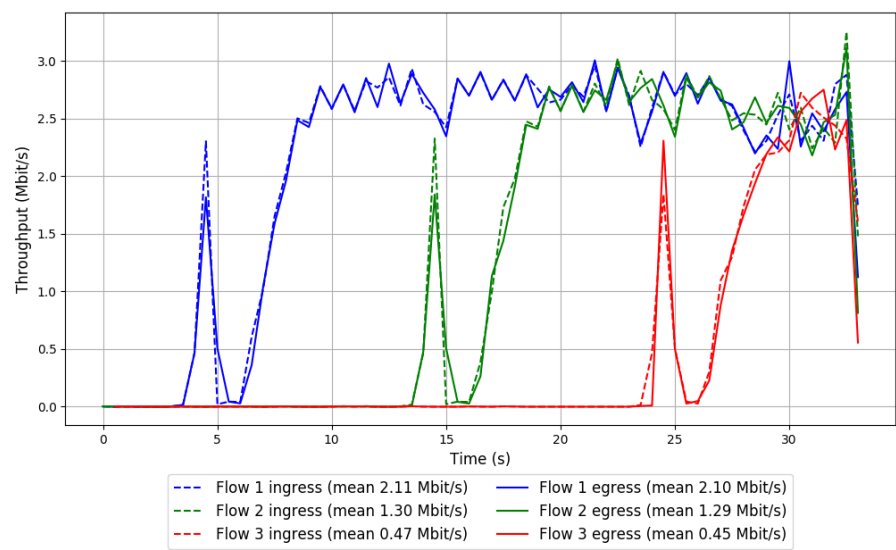
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.745 ms

Loss rate: 4.39%

Run 10: Report of WebRTC media — Data Link

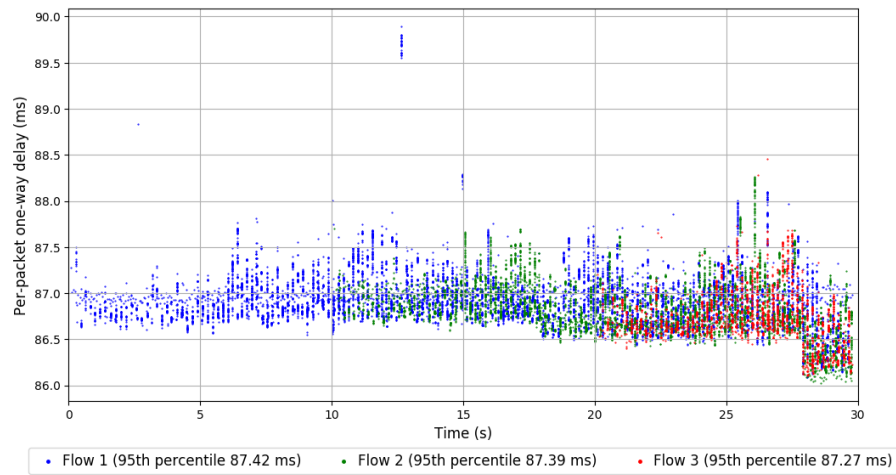
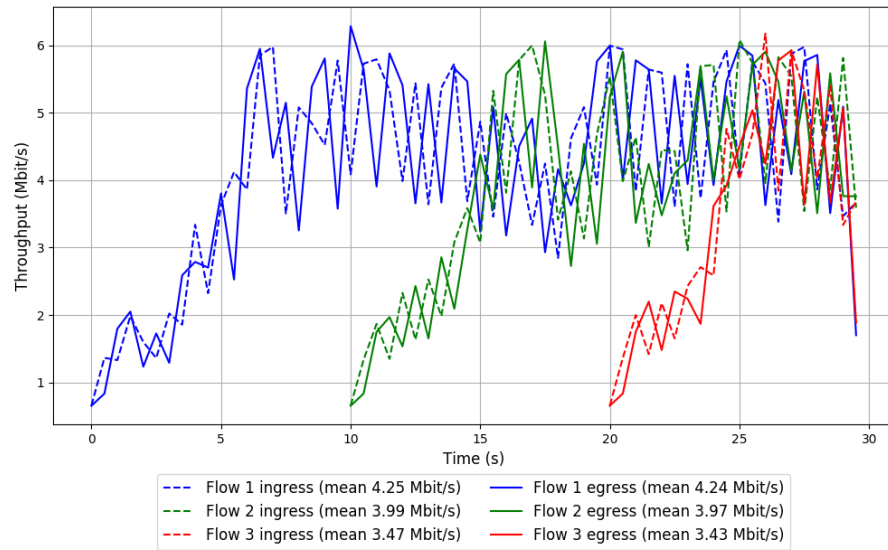


```
Run 1: Statistics of Sprout

Start at: 2017-11-30 20:15:55
End at: 2017-11-30 20:16:25

# Below is generated by plot.py at 2017-12-01 00:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 87.395 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 87.418 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 87.387 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 87.271 ms
Loss rate: 2.64%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 20:28:55

End at: 2017-11-30 20:29:25

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 87.645 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 87.667 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 87.636 ms

Loss rate: 0.70%

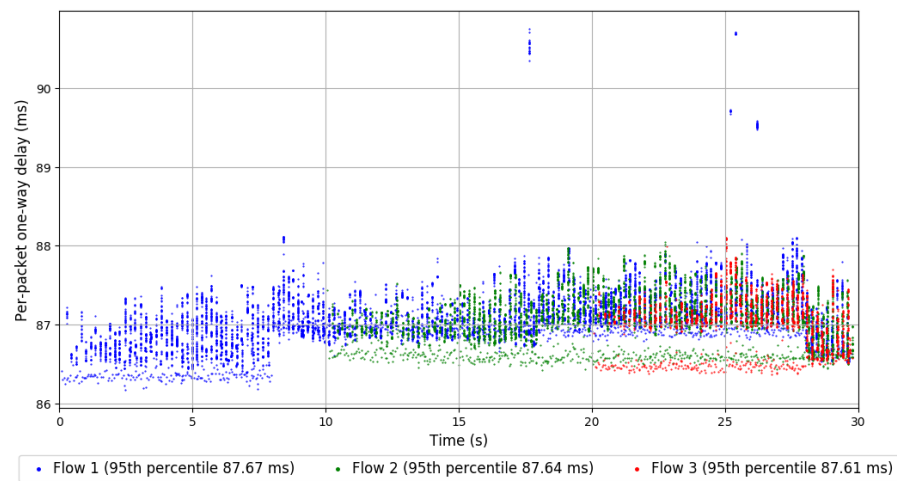
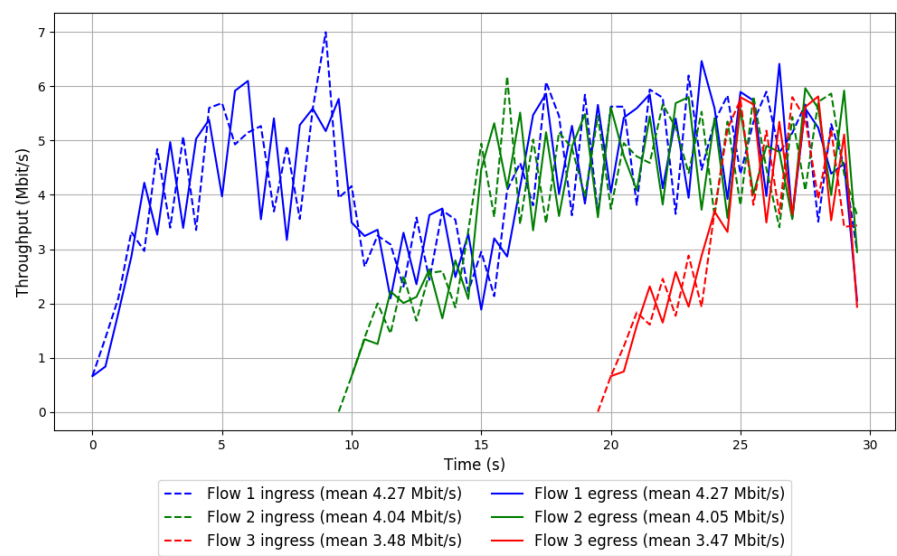
-- Flow 3:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 87.608 ms

Loss rate: 2.22%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 20:42:27

End at: 2017-11-30 20:42:57

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.77 Mbit/s

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

Loss rate: 1.12%

-- Flow 1:

Average throughput: 4.35 Mbit/s

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

Loss rate: 0.77%

-- Flow 2:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 1.14%

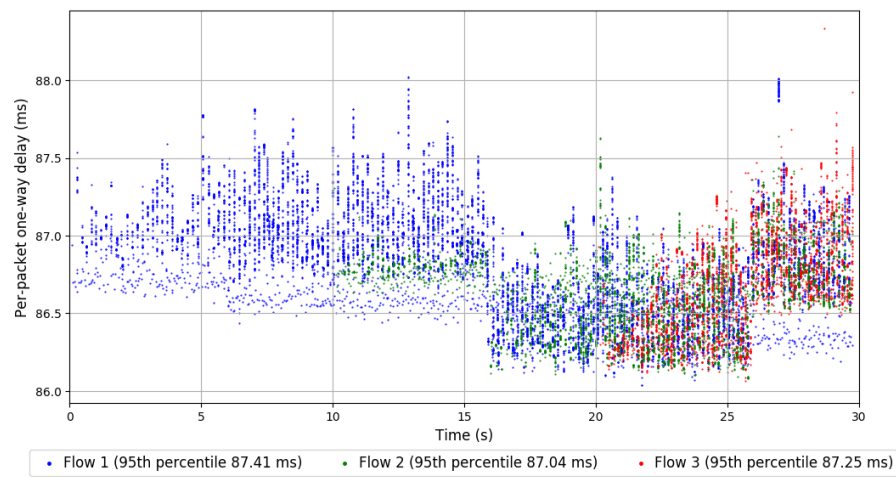
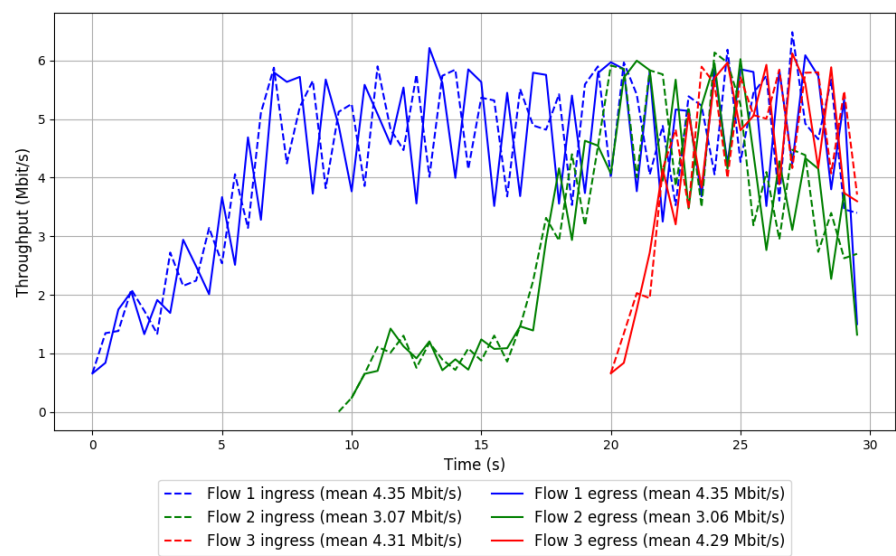
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 87.249 ms

Loss rate: 2.19%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 20:55:47

End at: 2017-11-30 20:56:17

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.45 Mbit/s

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

Loss rate: 1.29%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 87.654 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 87.528 ms

Loss rate: 1.37%

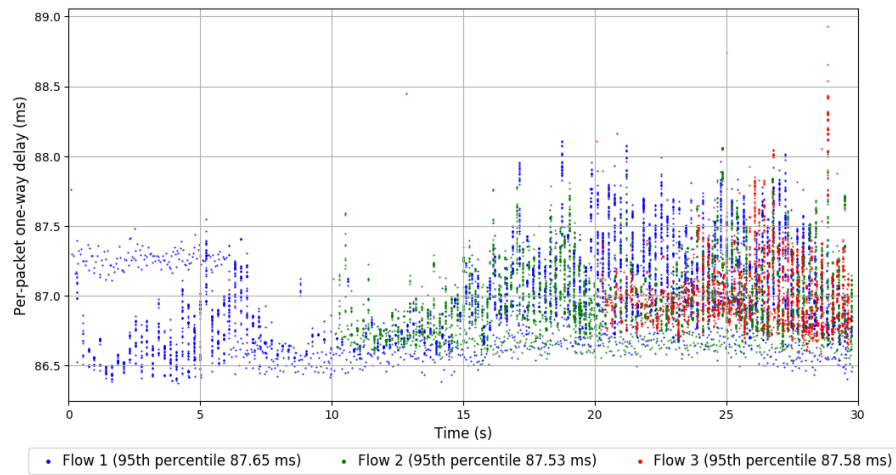
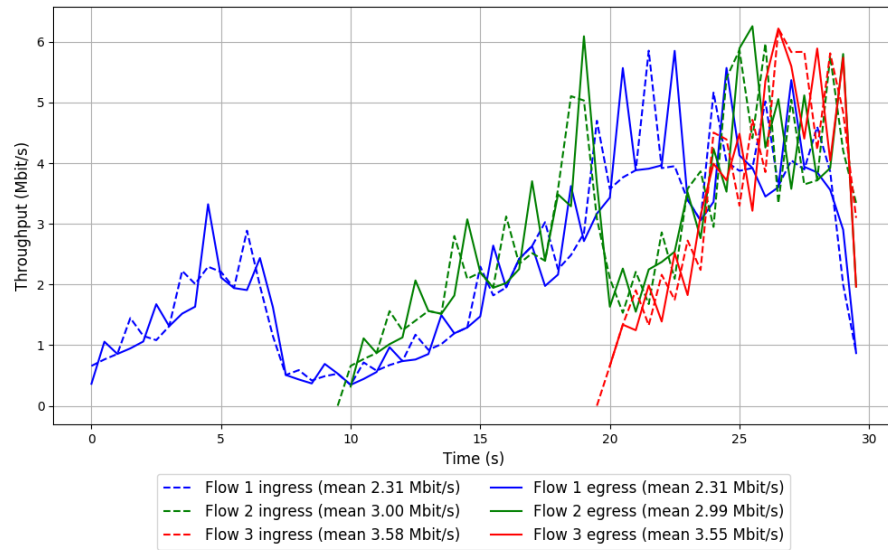
-- Flow 3:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 87.585 ms

Loss rate: 2.83%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 21:09:09

End at: 2017-11-30 21:09:39

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 87.418 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 87.436 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 87.376 ms

Loss rate: 1.02%

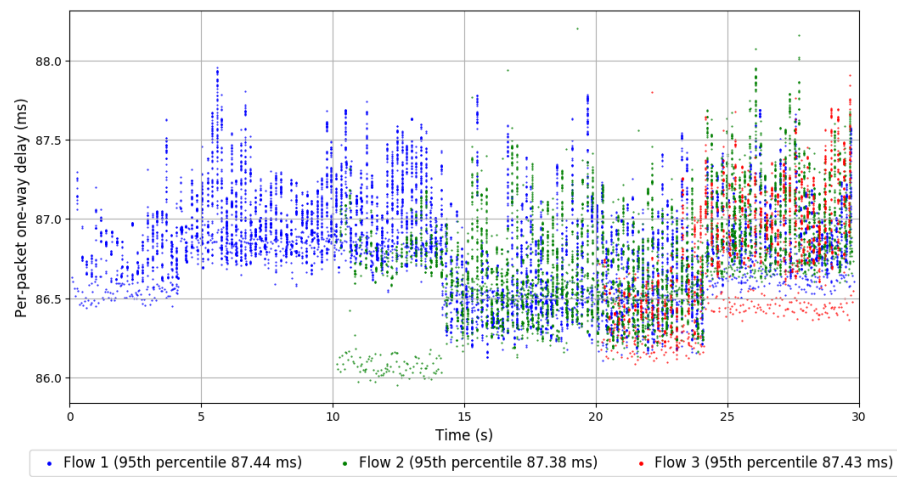
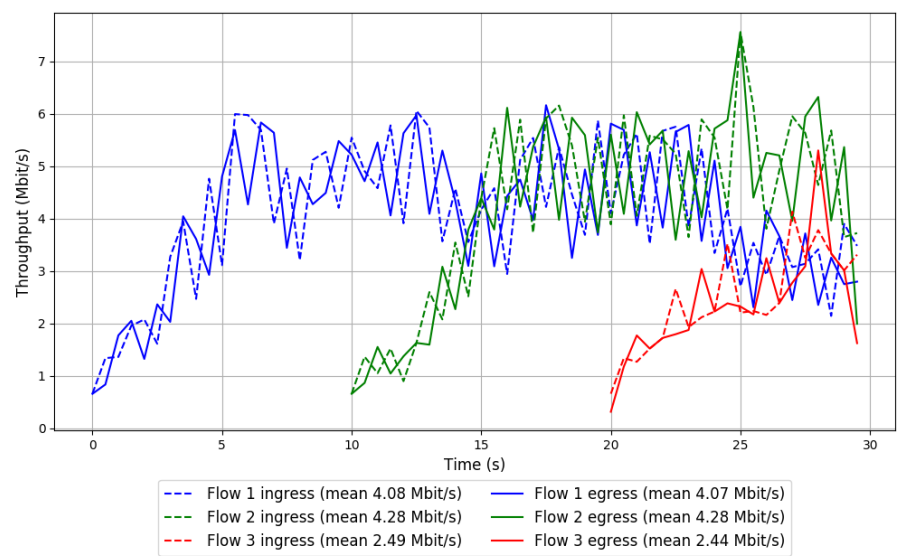
-- Flow 3:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 87.432 ms

Loss rate: 3.47%

Run 5: Report of Sprout — Data Link

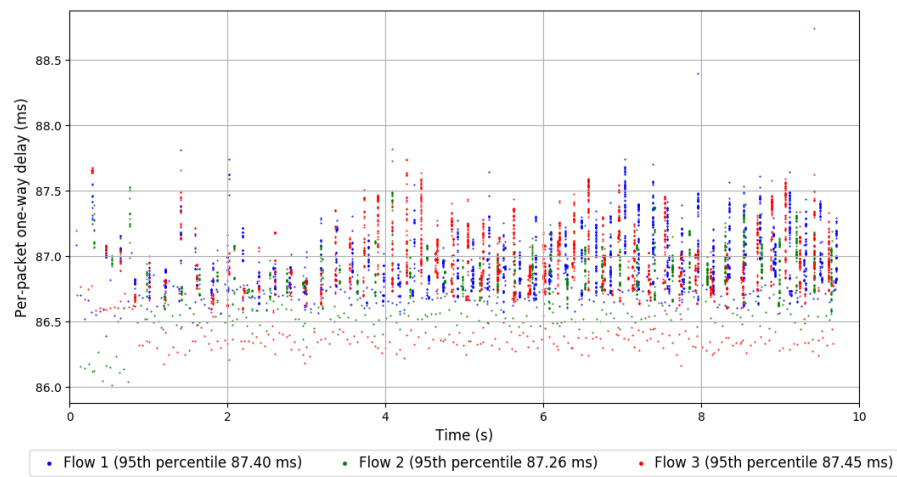
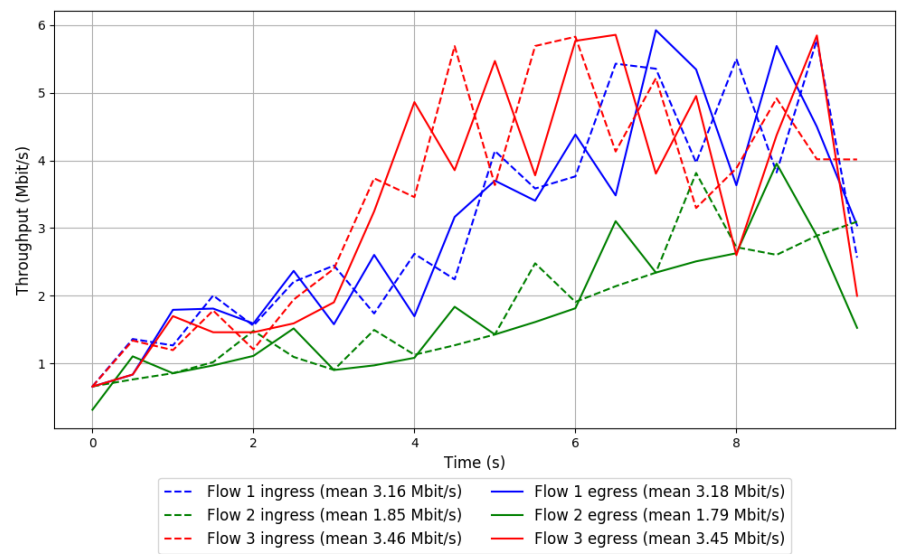


Run 6: Statistics of Sprout

Start at: 2017-11-30 21:22:42

End at: 2017-11-30 21:23:12

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 21:36:03

End at: 2017-11-30 21:36:33

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 87.750 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 87.815 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 3.34 Mbit/s

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

Loss rate: 1.93%

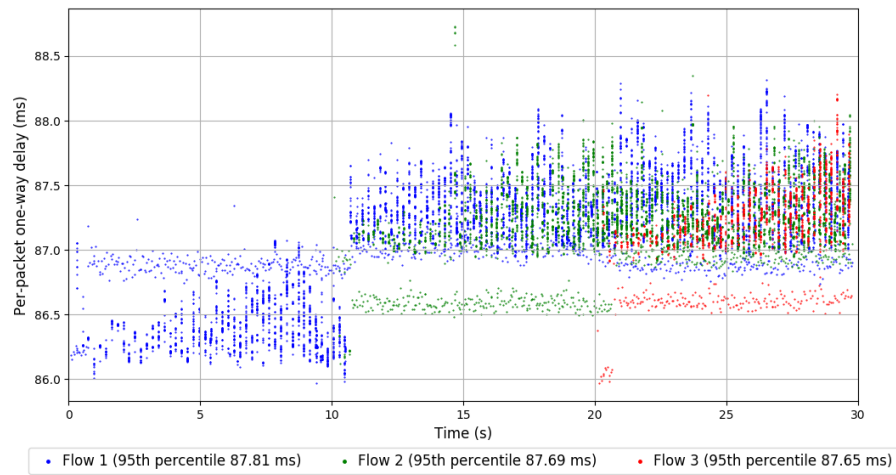
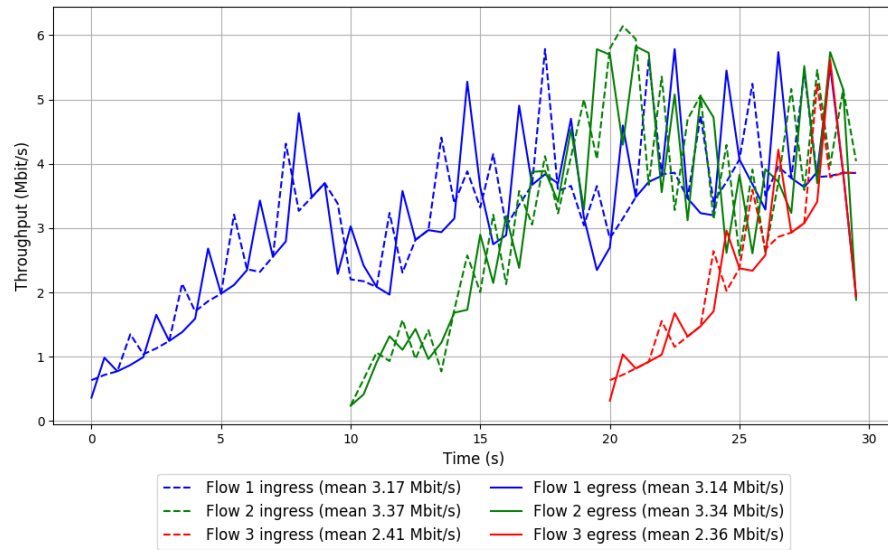
-- Flow 3:

Average throughput: 2.36 Mbit/s

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

Loss rate: 4.06%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 21:49:37

End at: 2017-11-30 21:50:07

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 87.550 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 87.504 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 87.644 ms

Loss rate: 1.67%

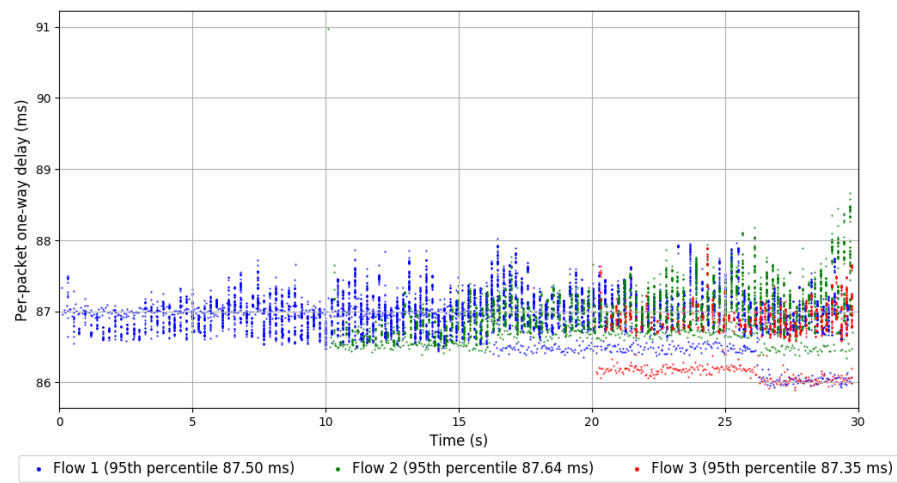
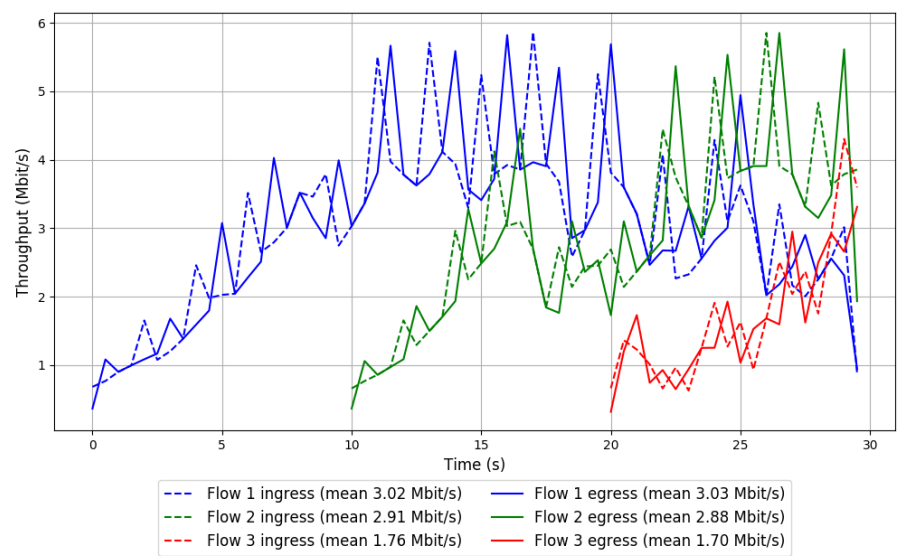
-- Flow 3:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 87.354 ms

Loss rate: 5.59%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 22:03:07

End at: 2017-11-30 22:03:37

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 87.534 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 87.592 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 87.459 ms

Loss rate: 1.09%

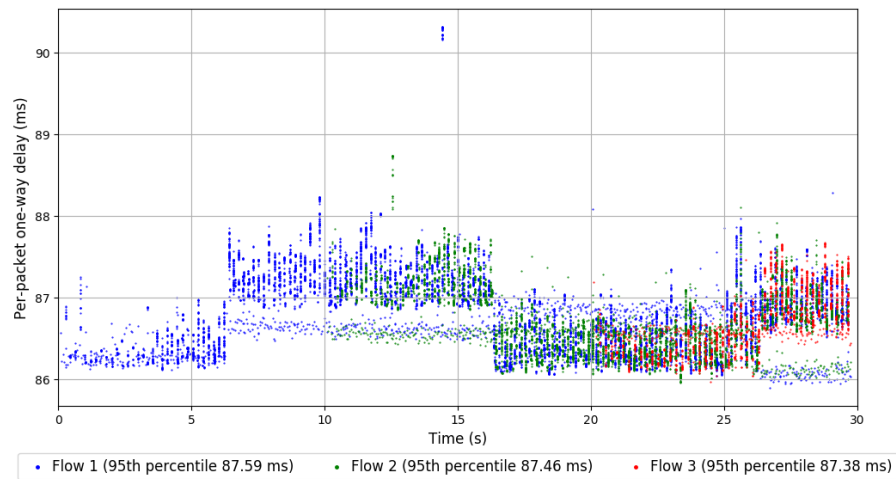
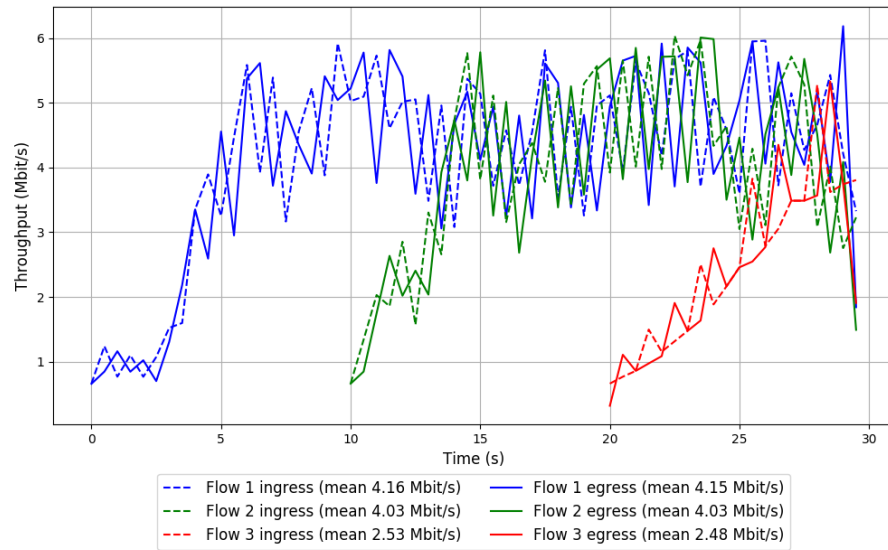
-- Flow 3:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 87.384 ms

Loss rate: 3.82%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 22:16:24

End at: 2017-11-30 22:16:54

Below is generated by plot.py at 2017-12-01 00:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.50 Mbit/s

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

Loss rate: 1.55%

-- Flow 1:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 87.226 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 2.87 Mbit/s

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

Loss rate: 1.57%

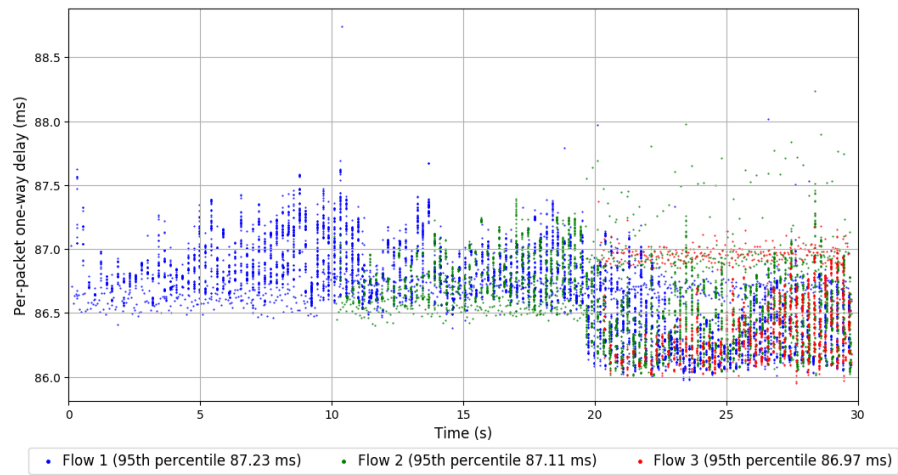
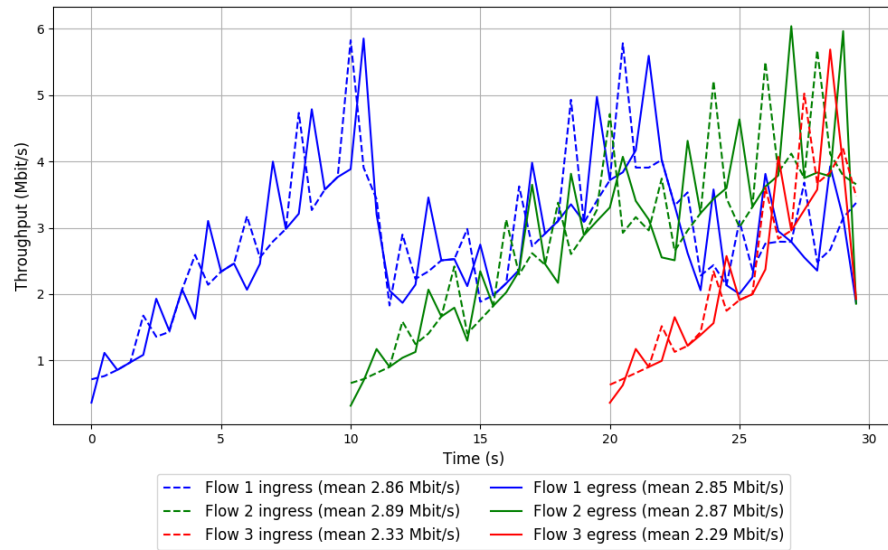
-- Flow 3:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 86.973 ms

Loss rate: 3.96%

Run 10: Report of Sprout — Data Link

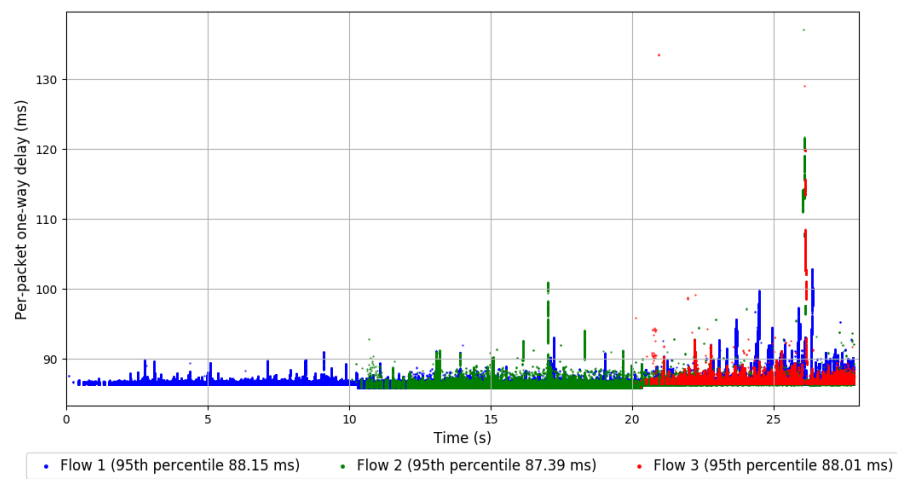
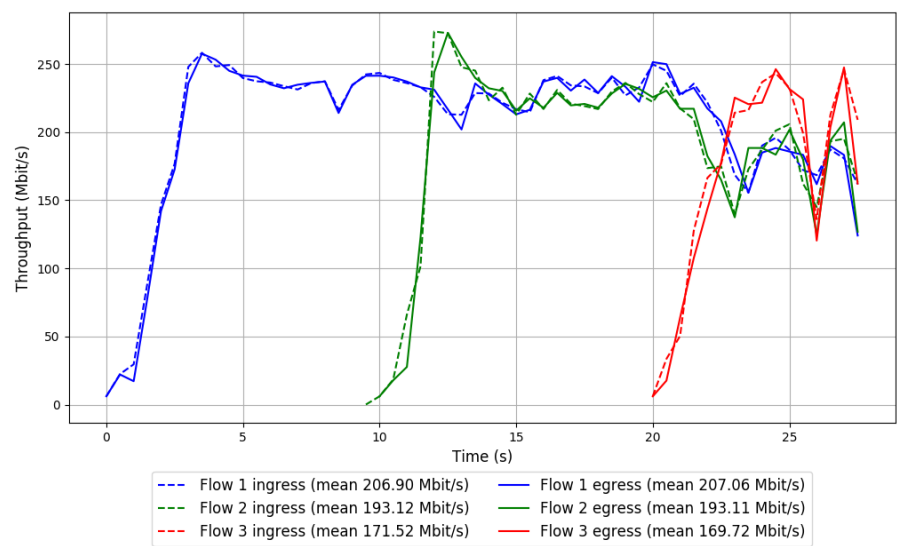


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 20:13:01
End at: 2017-11-30 20:13:31

# Below is generated by plot.py at 2017-12-01 01:02:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.84 Mbit/s
95th percentile per-packet one-way delay: 87.830 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 207.06 Mbit/s
95th percentile per-packet one-way delay: 88.148 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 193.11 Mbit/s
95th percentile per-packet one-way delay: 87.392 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 169.72 Mbit/s
95th percentile per-packet one-way delay: 88.008 ms
Loss rate: 3.22%
```


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

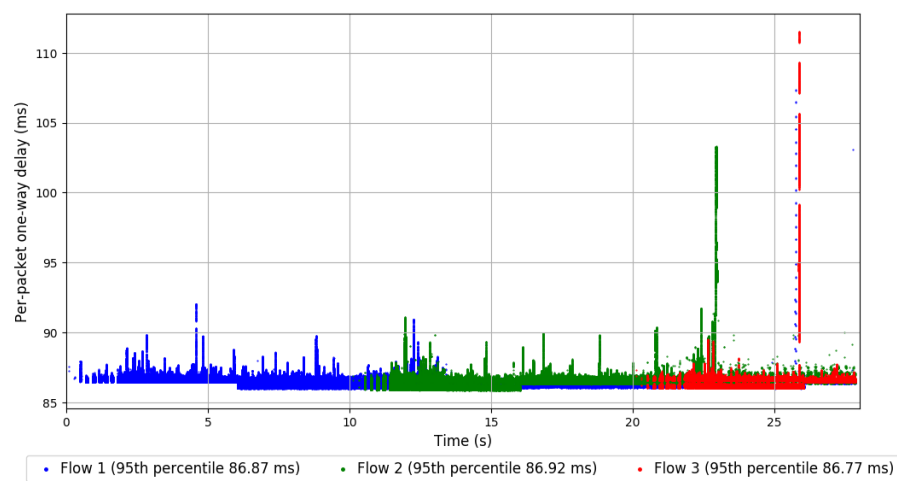
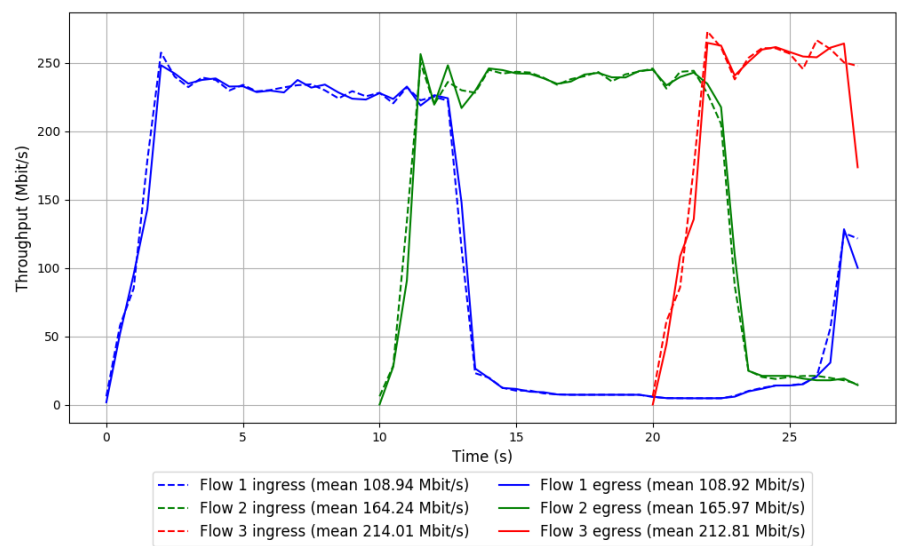


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 20:26:05
End at: 2017-11-30 20:26:35

# Below is generated by plot.py at 2017-12-01 01:02:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.22 Mbit/s
95th percentile per-packet one-way delay: 86.862 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 108.92 Mbit/s
95th percentile per-packet one-way delay: 86.873 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 165.97 Mbit/s
95th percentile per-packet one-way delay: 86.924 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 212.81 Mbit/s
95th percentile per-packet one-way delay: 86.771 ms
Loss rate: 3.14%
```

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

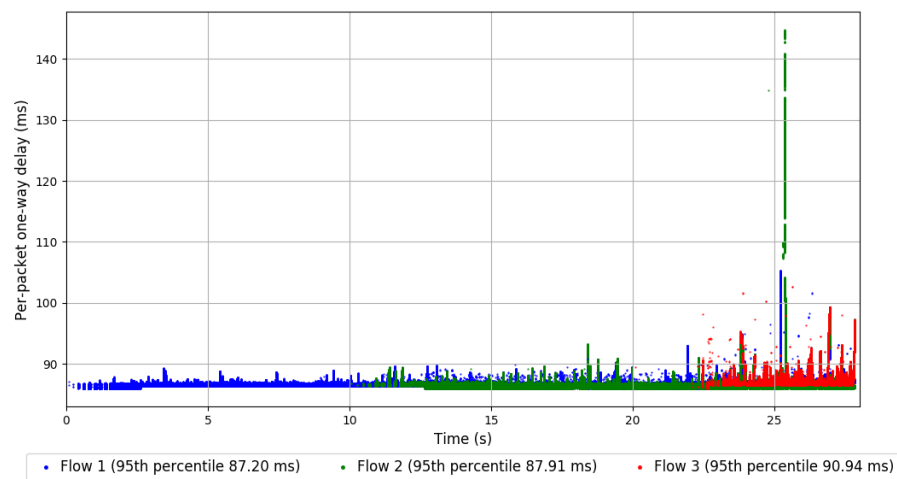
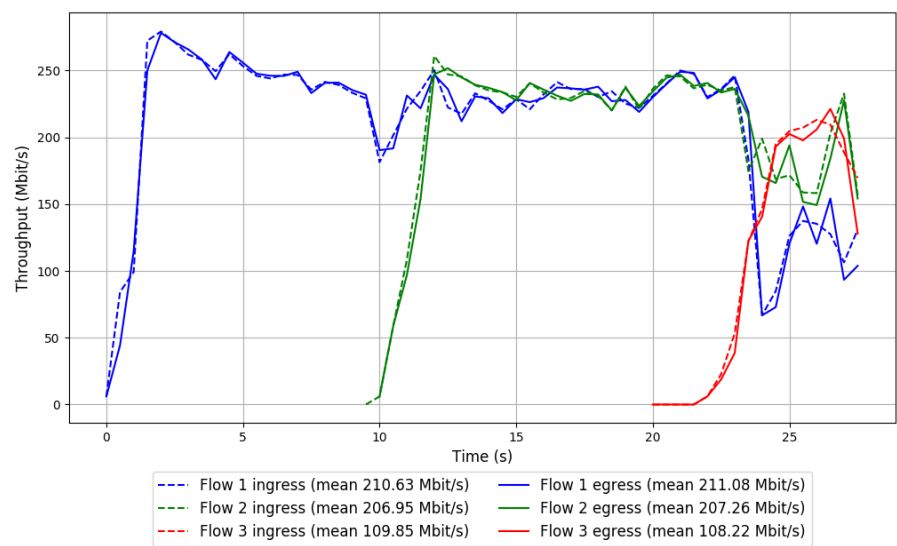


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 20:39:29
End at: 2017-11-30 20:39:59

# Below is generated by plot.py at 2017-12-01 01:02:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.99 Mbit/s
95th percentile per-packet one-way delay: 87.962 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 211.08 Mbit/s
95th percentile per-packet one-way delay: 87.200 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 207.26 Mbit/s
95th percentile per-packet one-way delay: 87.913 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 108.22 Mbit/s
95th percentile per-packet one-way delay: 90.945 ms
Loss rate: 3.69%
```

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

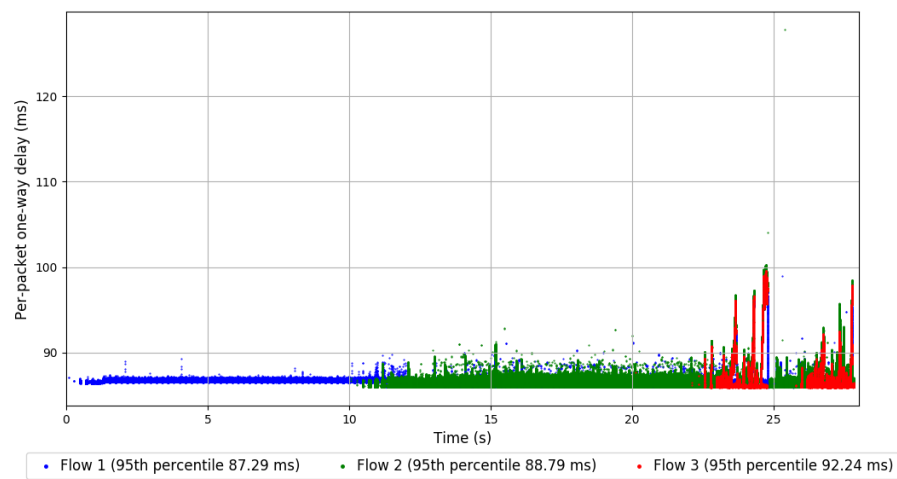
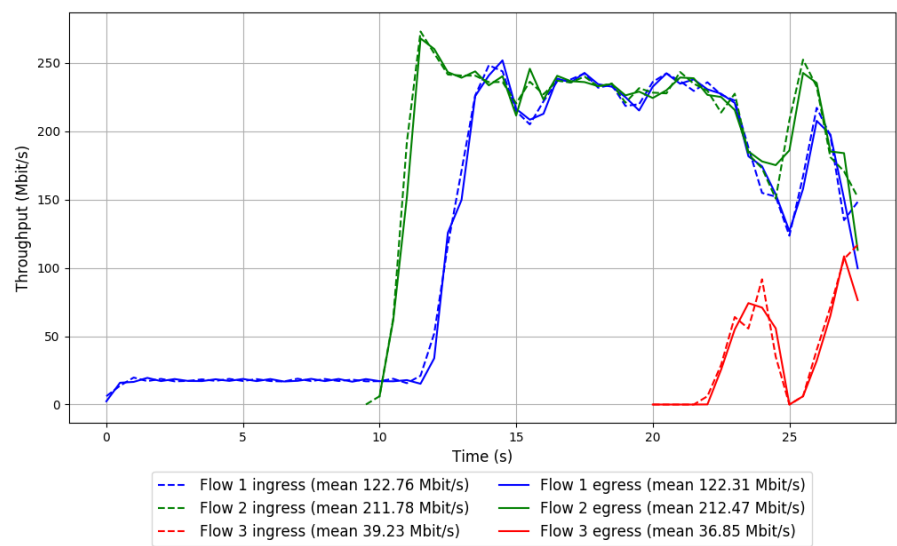


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 20:53:00
End at: 2017-11-30 20:53:30

# Below is generated by plot.py at 2017-12-01 01:02:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.36 Mbit/s
95th percentile per-packet one-way delay: 88.313 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 122.31 Mbit/s
95th percentile per-packet one-way delay: 87.287 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 212.47 Mbit/s
95th percentile per-packet one-way delay: 88.790 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 92.242 ms
Loss rate: 8.49%
```

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

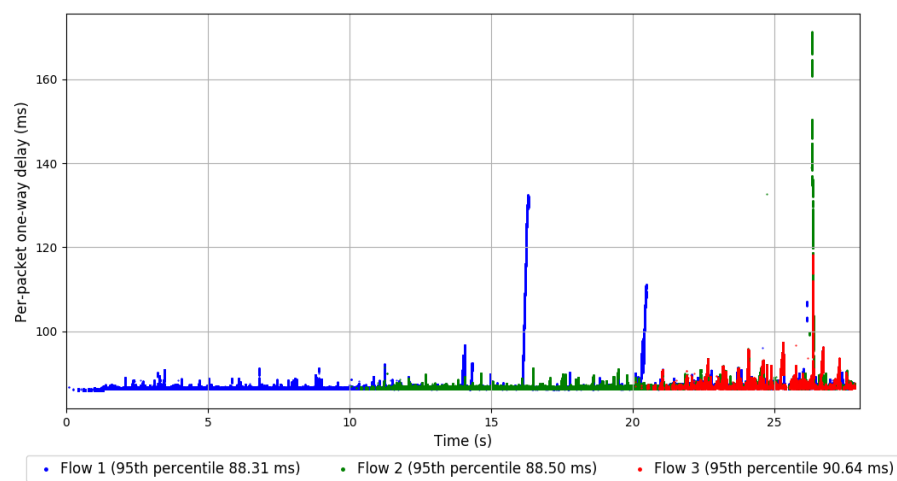
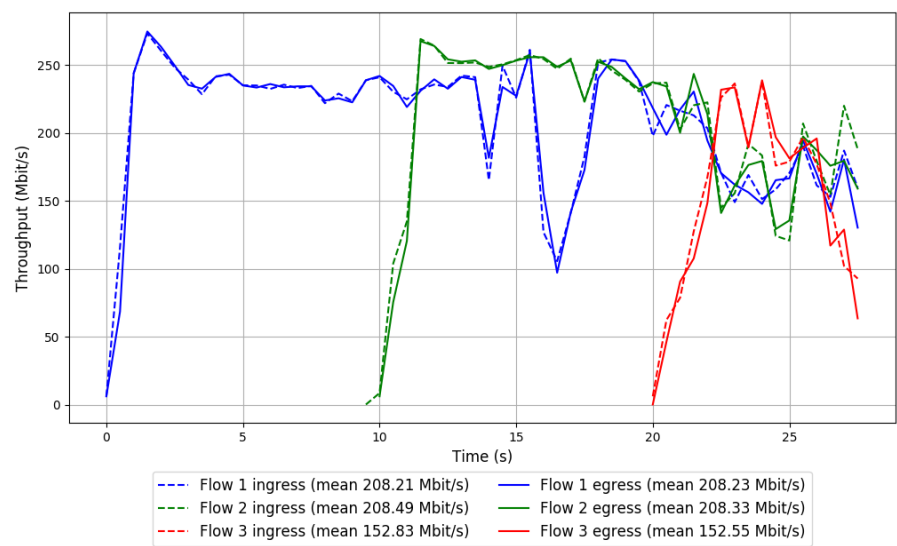


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 21:06:10
End at: 2017-11-30 21:06:40

# Below is generated by plot.py at 2017-12-01 01:02:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.17 Mbit/s
95th percentile per-packet one-way delay: 88.701 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 208.23 Mbit/s
95th percentile per-packet one-way delay: 88.313 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 208.33 Mbit/s
95th percentile per-packet one-way delay: 88.501 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 152.55 Mbit/s
95th percentile per-packet one-way delay: 90.640 ms
Loss rate: 1.88%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 21:19:44

End at: 2017-11-30 21:20:14

Below is generated by plot.py at 2017-12-01 01:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.72 Mbit/s

95th percentile per-packet one-way delay: 87.319 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 216.84 Mbit/s

95th percentile per-packet one-way delay: 86.988 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 142.82 Mbit/s

95th percentile per-packet one-way delay: 88.012 ms

Loss rate: 1.64%

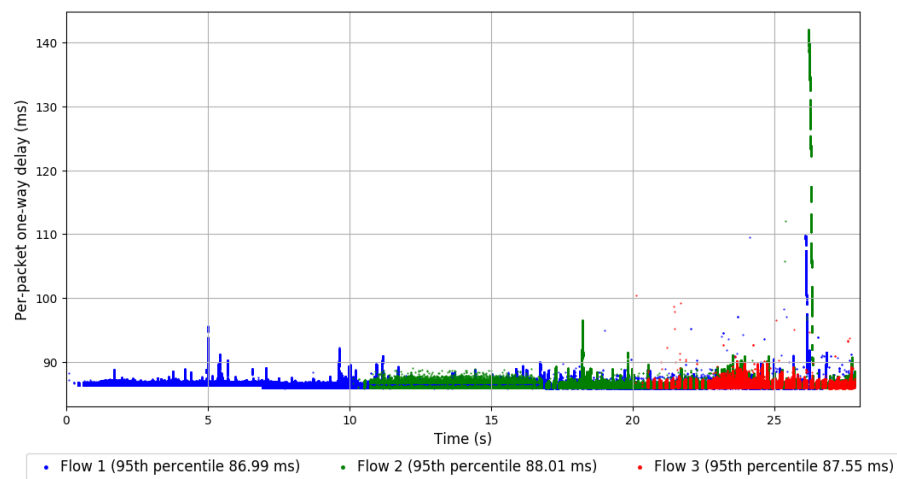
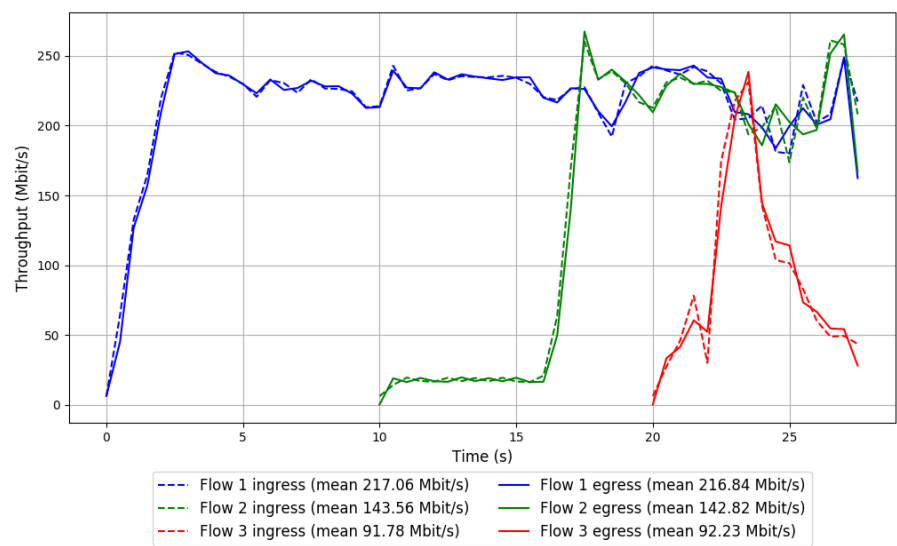
-- Flow 3:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 87.553 ms

Loss rate: 1.26%

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

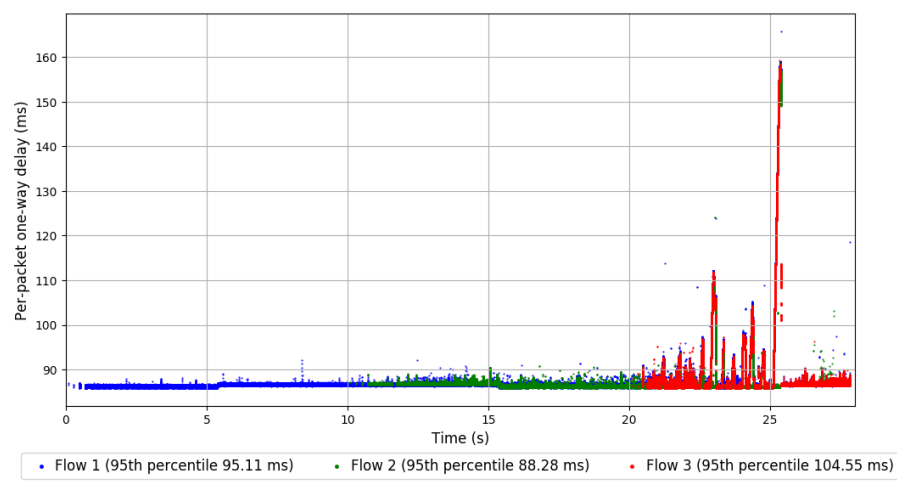
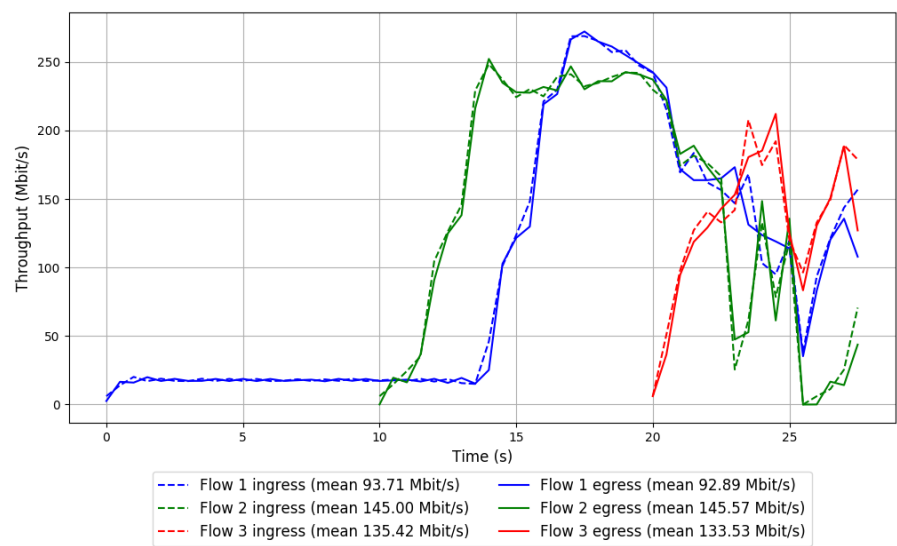


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 21:33:16
End at: 2017-11-30 21:33:46

# Below is generated by plot.py at 2017-12-01 01:04:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.12 Mbit/s
95th percentile per-packet one-way delay: 94.964 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 95.114 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 145.57 Mbit/s
95th percentile per-packet one-way delay: 88.284 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 133.53 Mbit/s
95th percentile per-packet one-way delay: 104.549 ms
Loss rate: 3.52%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 21:46:44

End at: 2017-11-30 21:47:14

Below is generated by plot.py at 2017-12-01 01:06:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.25 Mbit/s

95th percentile per-packet one-way delay: 88.424 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 121.26 Mbit/s

95th percentile per-packet one-way delay: 87.421 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 194.86 Mbit/s

95th percentile per-packet one-way delay: 87.336 ms

Loss rate: 0.77%

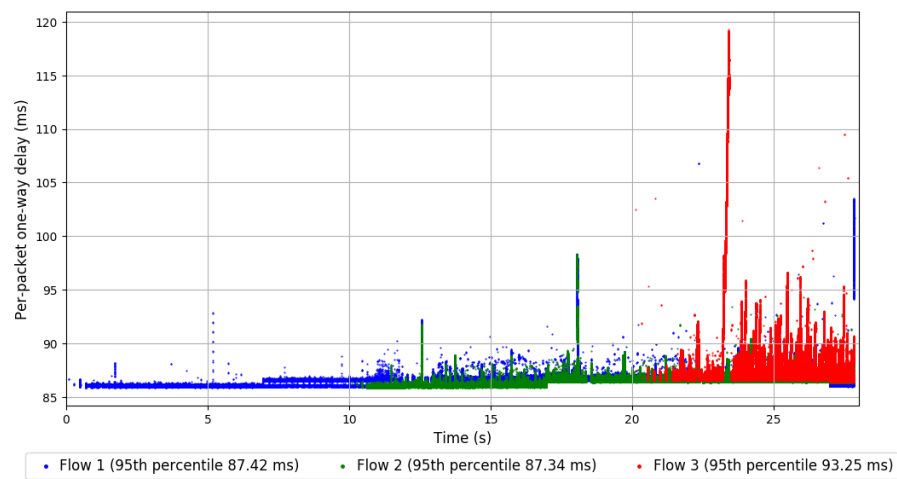
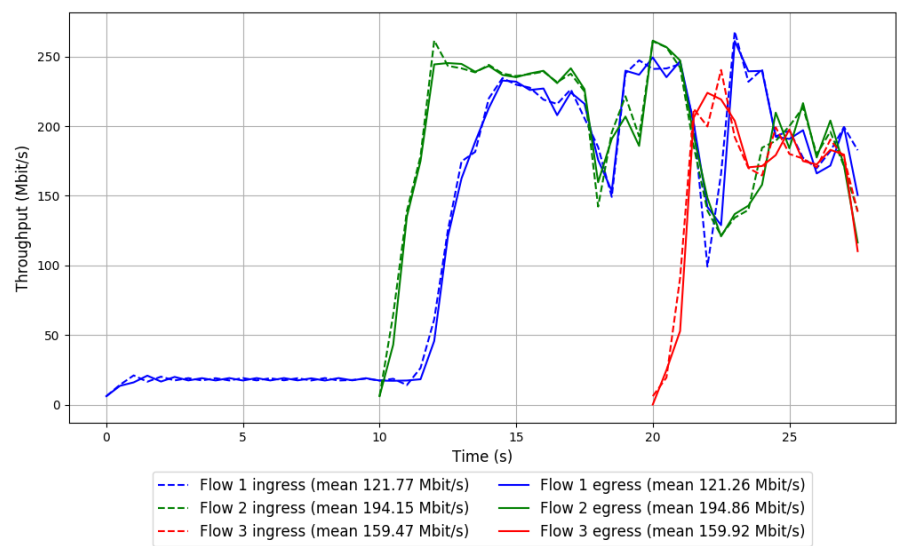
-- Flow 3:

Average throughput: 159.92 Mbit/s

95th percentile per-packet one-way delay: 93.251 ms

Loss rate: 2.32%

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

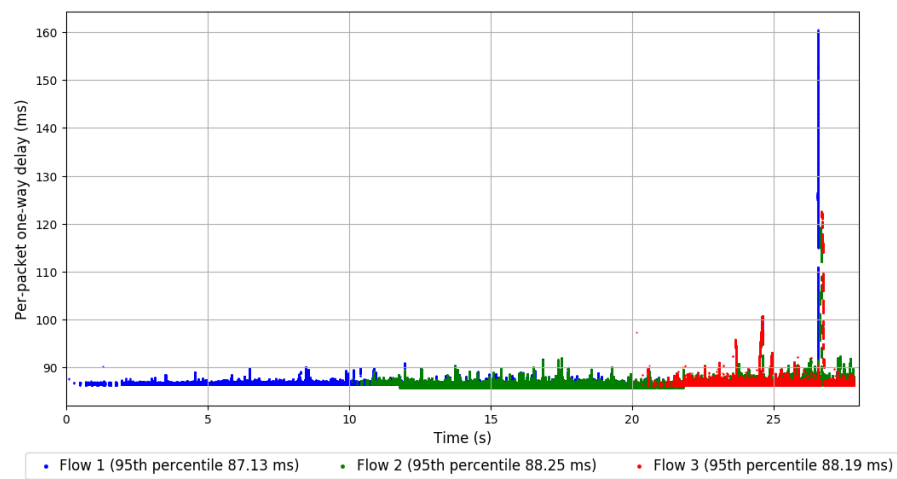
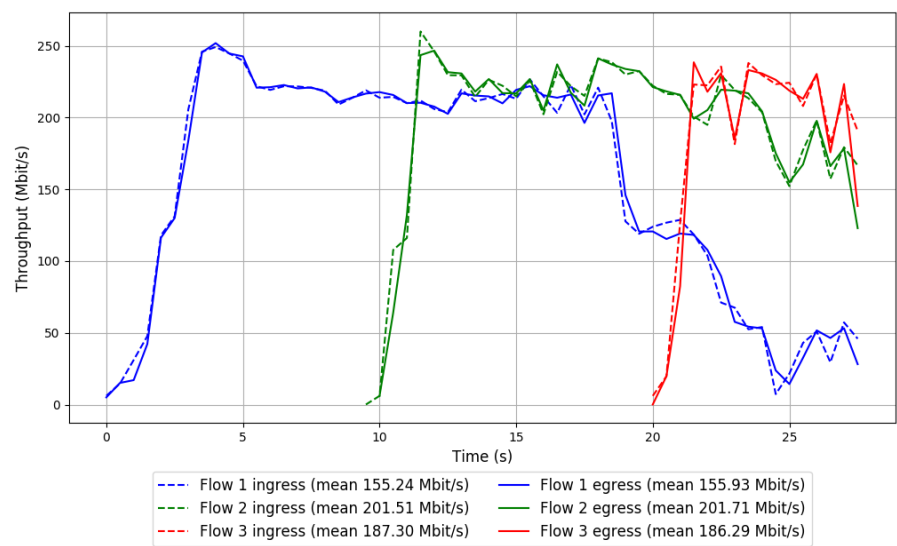


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 22:00:10
End at: 2017-11-30 22:00:40

# Below is generated by plot.py at 2017-12-01 01:09:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.58 Mbit/s
95th percentile per-packet one-way delay: 87.716 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 155.93 Mbit/s
95th percentile per-packet one-way delay: 87.132 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 201.71 Mbit/s
95th percentile per-packet one-way delay: 88.254 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 186.29 Mbit/s
95th percentile per-packet one-way delay: 88.186 ms
Loss rate: 3.08%
```


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

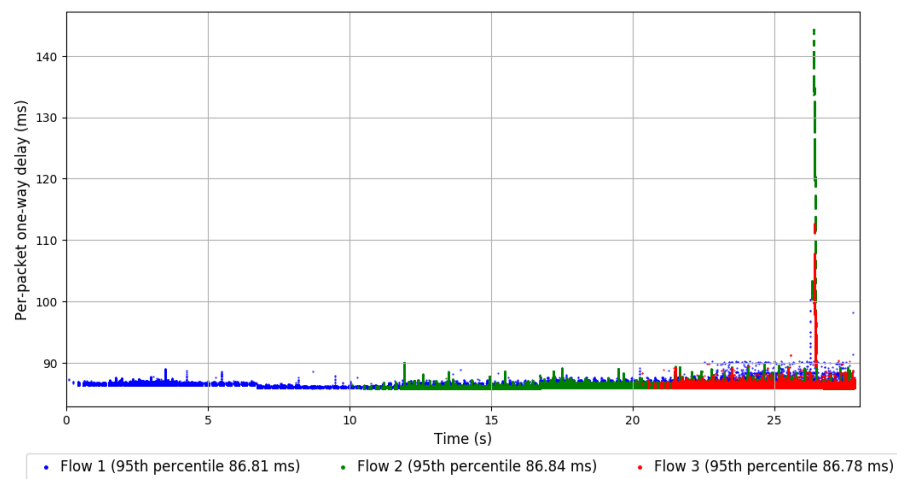
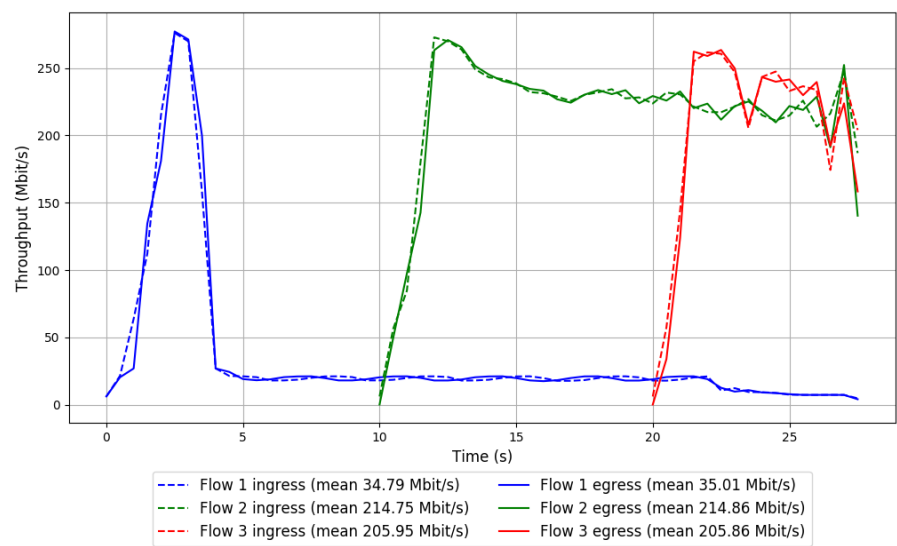


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 22:13:35
End at: 2017-11-30 22:14:05

# Below is generated by plot.py at 2017-12-01 01:09:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.19 Mbit/s
95th percentile per-packet one-way delay: 86.814 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 35.01 Mbit/s
95th percentile per-packet one-way delay: 86.814 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 214.86 Mbit/s
95th percentile per-packet one-way delay: 86.838 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 205.86 Mbit/s
95th percentile per-packet one-way delay: 86.782 ms
Loss rate: 2.59%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 20:07:50

End at: 2017-11-30 20:08:20

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.55 Mbit/s

95th percentile per-packet one-way delay: 92.135 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 87.783 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 100.29 Mbit/s

95th percentile per-packet one-way delay: 93.879 ms

Loss rate: 0.55%

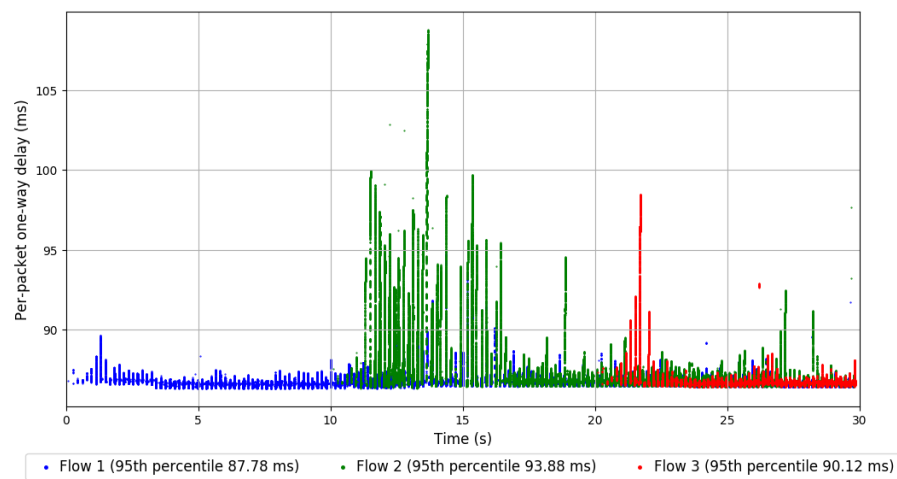
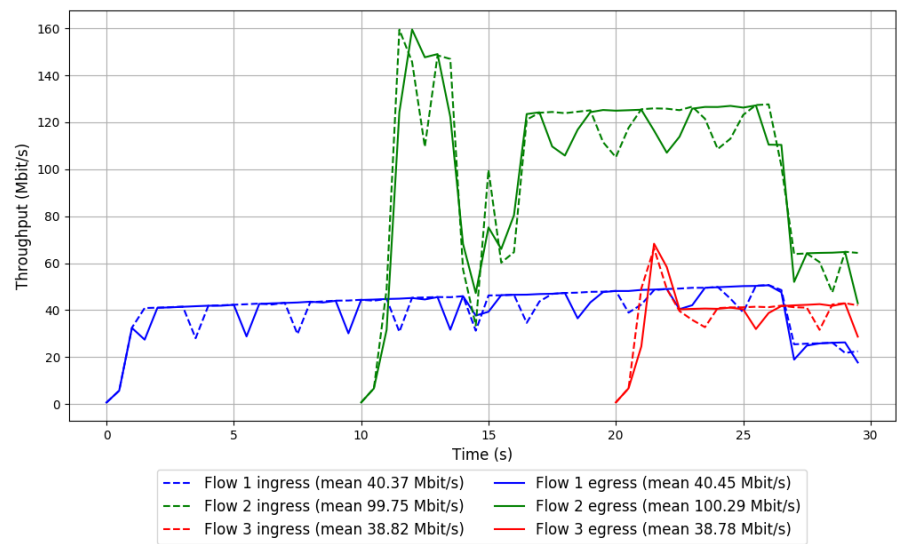
-- Flow 3:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 90.116 ms

Loss rate: 1.88%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 20:21:00

End at: 2017-11-30 20:21:30

Run 2: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 20:34:13

End at: 2017-11-30 20:34:43

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.96 Mbit/s

95th percentile per-packet one-way delay: 89.003 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 88.754 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 48.25 Mbit/s

95th percentile per-packet one-way delay: 89.974 ms

Loss rate: 0.53%

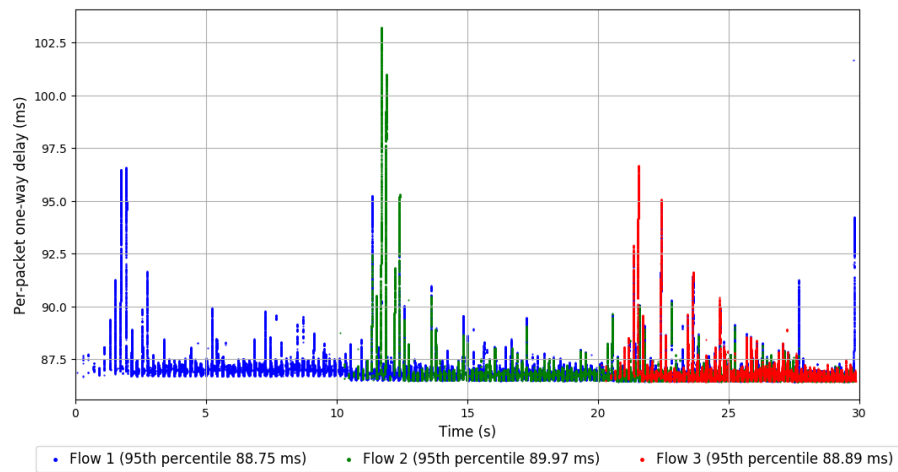
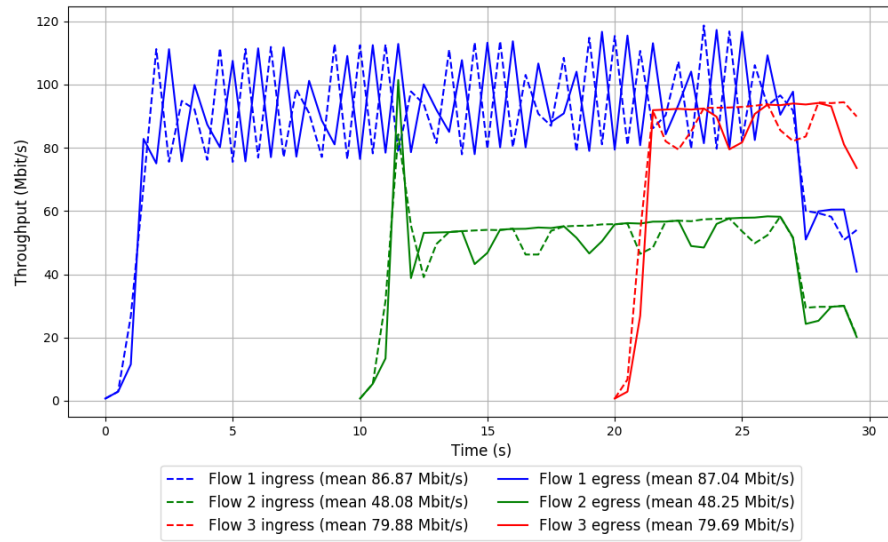
-- Flow 3:

Average throughput: 79.69 Mbit/s

95th percentile per-packet one-way delay: 88.890 ms

Loss rate: 1.99%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 20:47:38

End at: 2017-11-30 20:48:08

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.84 Mbit/s

95th percentile per-packet one-way delay: 94.186 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 90.292 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 90.146 ms

Loss rate: 0.58%

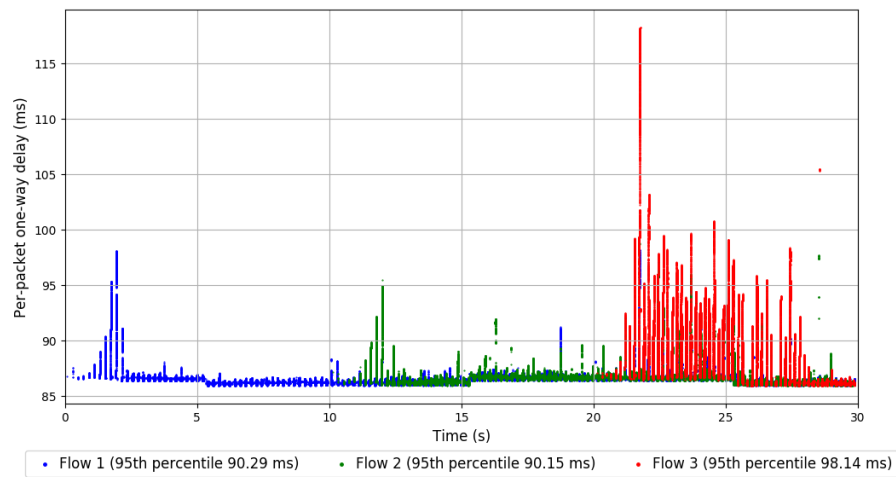
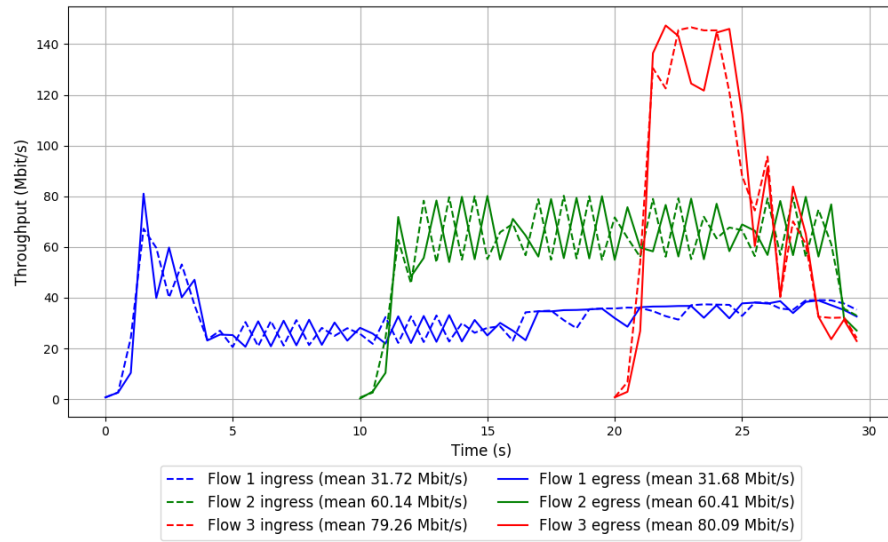
-- Flow 3:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 98.143 ms

Loss rate: 0.72%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 21:00:55

End at: 2017-11-30 21:01:25

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.09 Mbit/s

95th percentile per-packet one-way delay: 88.908 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 35.32 Mbit/s

95th percentile per-packet one-way delay: 88.917 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 74.53 Mbit/s

95th percentile per-packet one-way delay: 88.732 ms

Loss rate: 0.97%

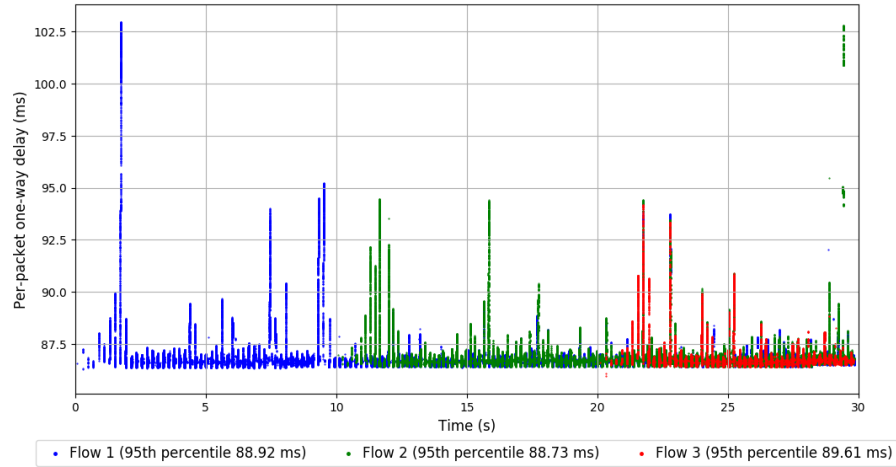
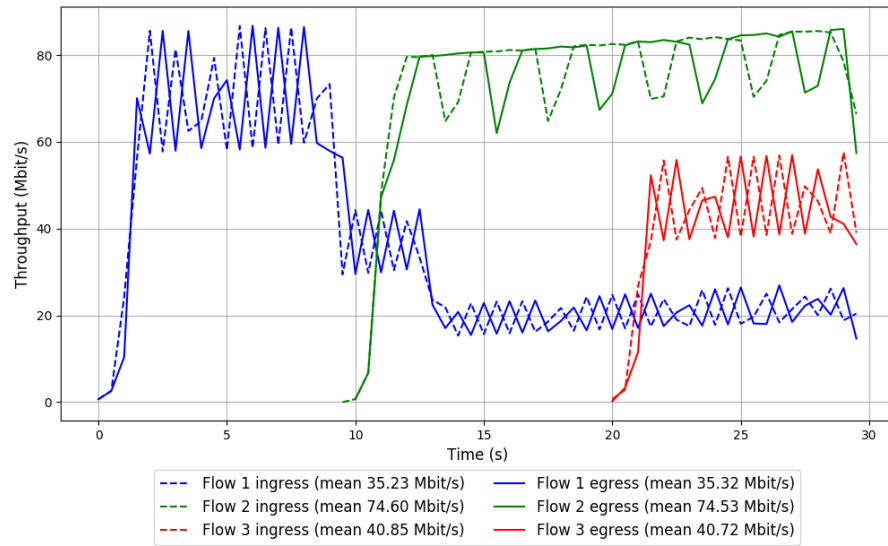
-- Flow 3:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 89.608 ms

Loss rate: 2.40%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 21:14:20

End at: 2017-11-30 21:14:50

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.30 Mbit/s

95th percentile per-packet one-way delay: 91.210 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 89.002 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 88.767 ms

Loss rate: 1.05%

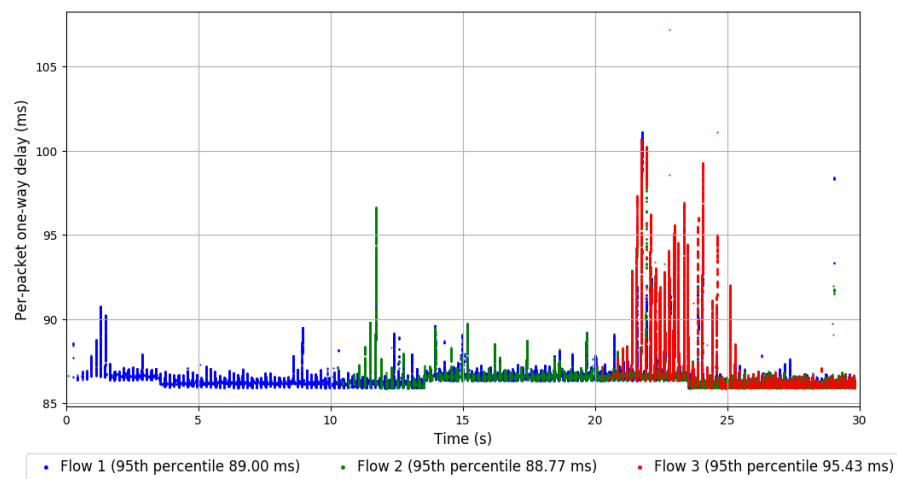
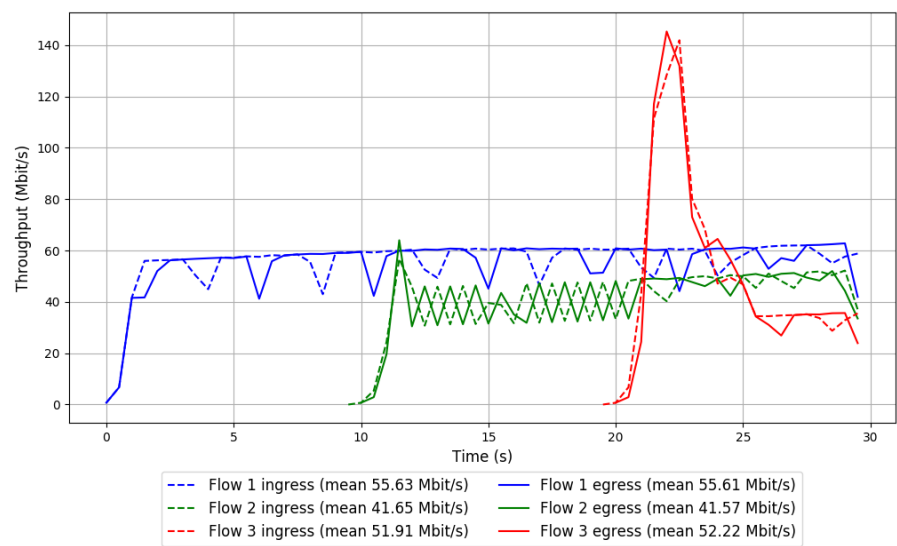
-- Flow 3:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 95.430 ms

Loss rate: 1.17%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 21:27:59

End at: 2017-11-30 21:28:29

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 87.677 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 88.067 ms

Loss rate: 0.99%

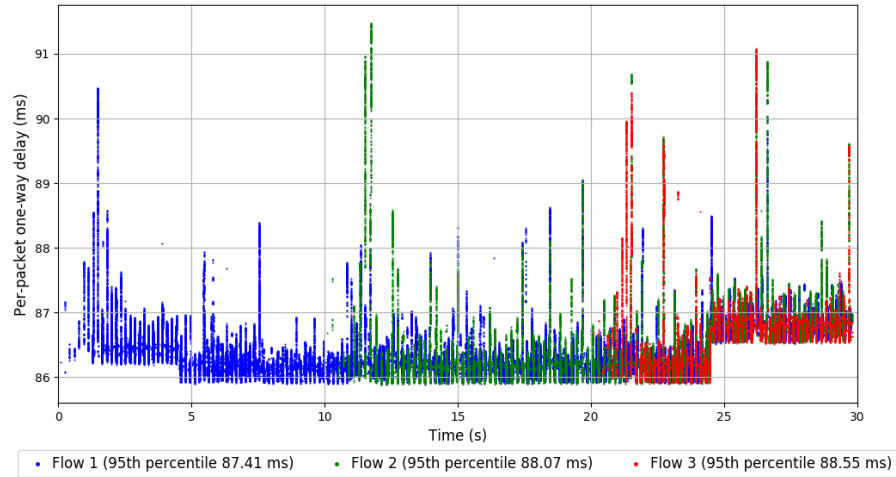
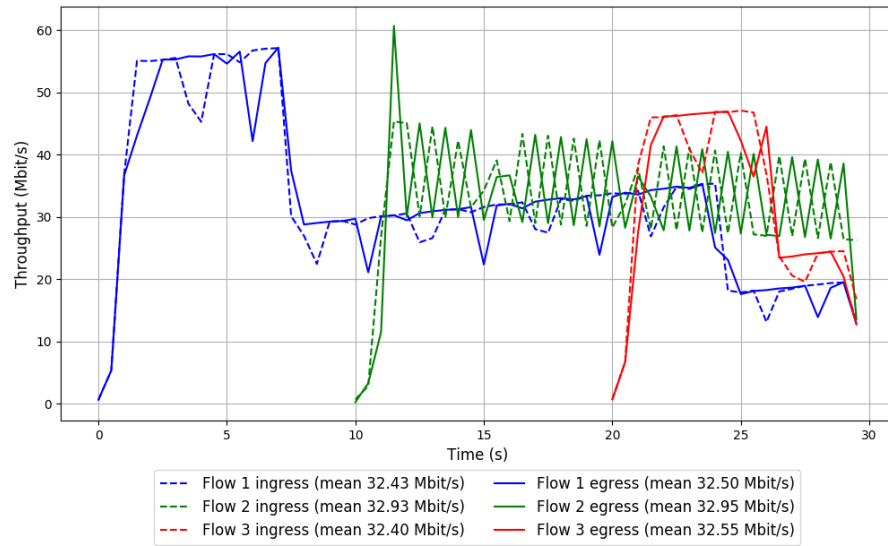
-- Flow 3:

Average throughput: 32.55 Mbit/s

95th percentile per-packet one-way delay: 88.545 ms

Loss rate: 1.31%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 21:41:18

End at: 2017-11-30 21:41:48

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.61 Mbit/s

95th percentile per-packet one-way delay: 88.417 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 88.302 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 87.880 ms

Loss rate: 1.03%

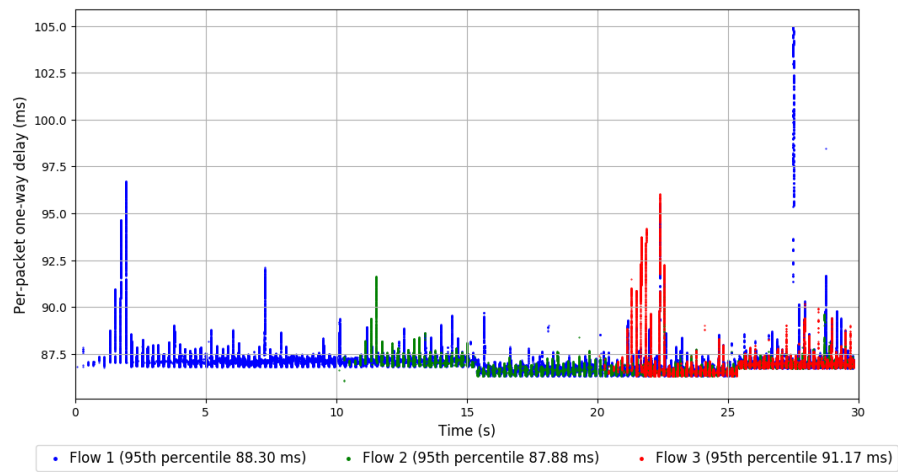
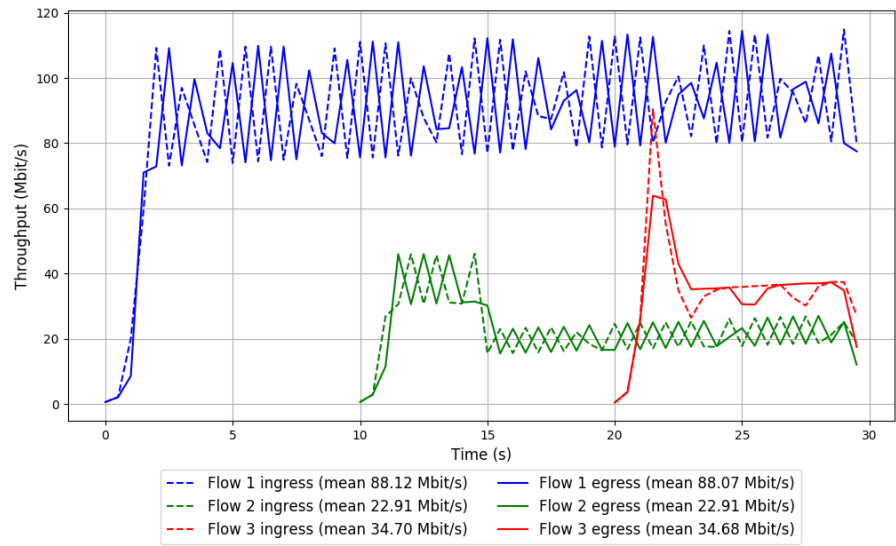
-- Flow 3:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 91.169 ms

Loss rate: 1.83%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 21:54:47

End at: 2017-11-30 21:55:17

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.57 Mbit/s

95th percentile per-packet one-way delay: 91.432 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 44.63 Mbit/s

95th percentile per-packet one-way delay: 89.686 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 88.548 ms

Loss rate: 0.75%

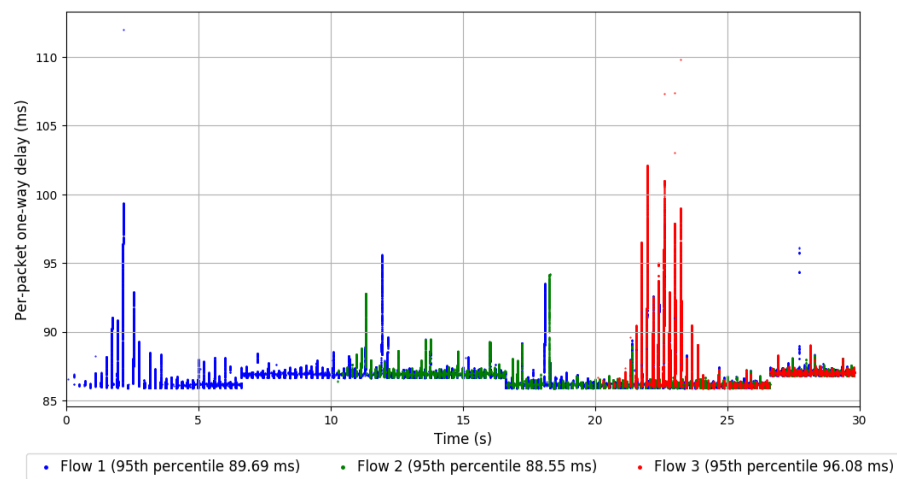
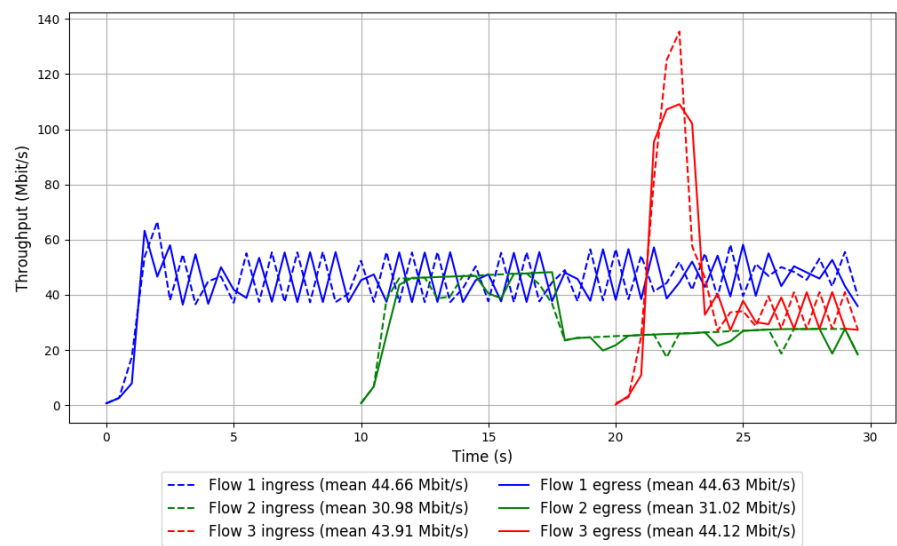
-- Flow 3:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 96.084 ms

Loss rate: 1.58%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 22:08:16

End at: 2017-11-30 22:08:46

Below is generated by plot.py at 2017-12-01 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.88 Mbit/s

95th percentile per-packet one-way delay: 88.264 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 88.133 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 42.13 Mbit/s

95th percentile per-packet one-way delay: 88.779 ms

Loss rate: 1.09%

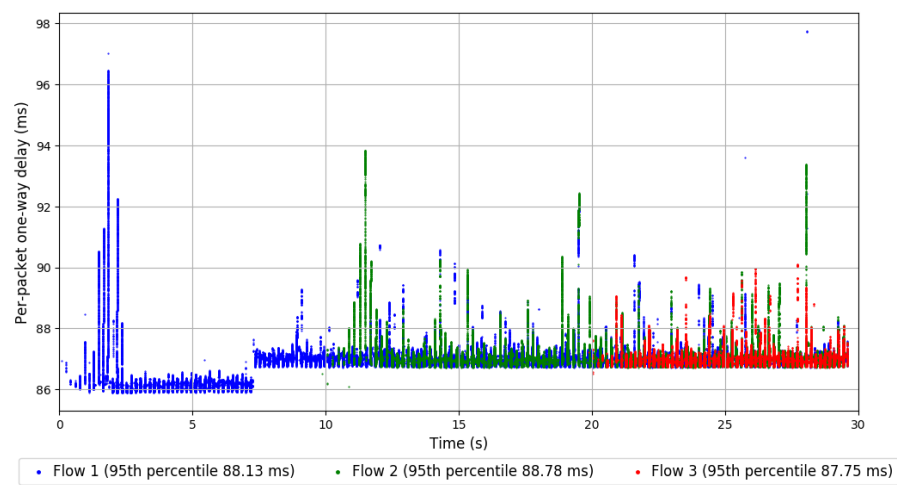
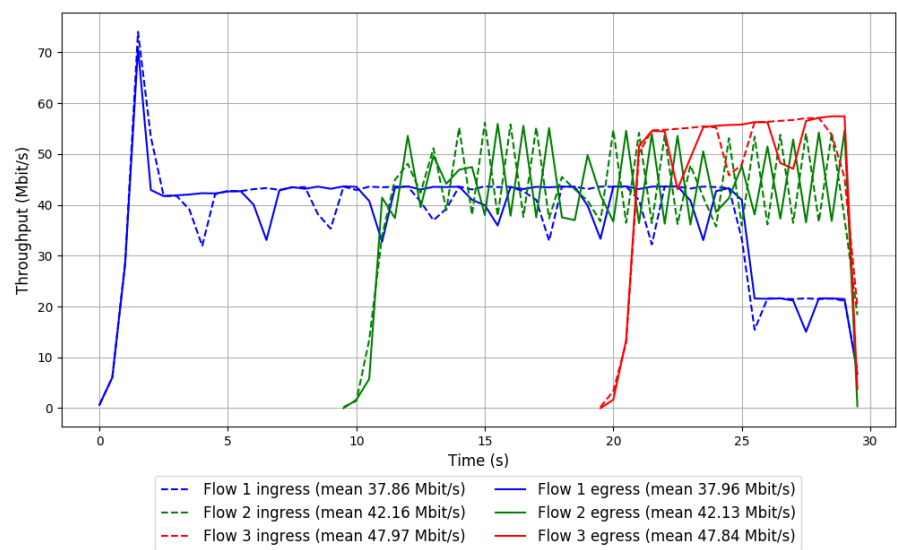
-- Flow 3:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 87.751 ms

Loss rate: 2.02%

Run 10: Report of TCP Vegas — Data Link

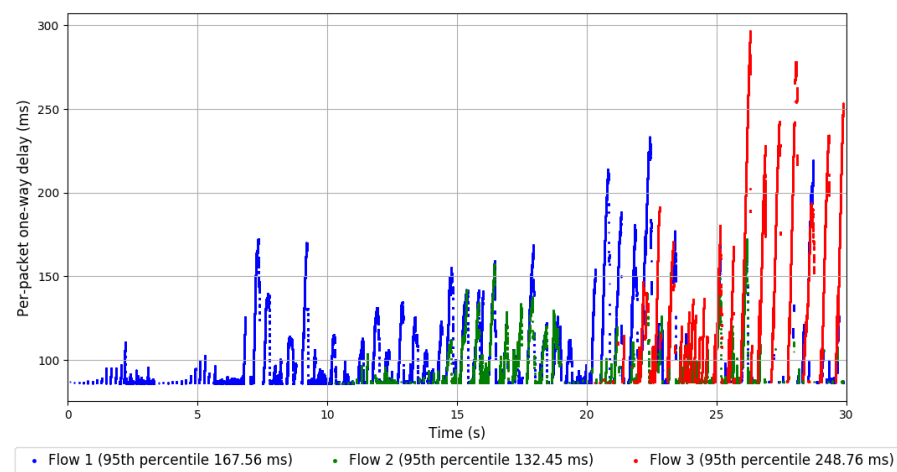
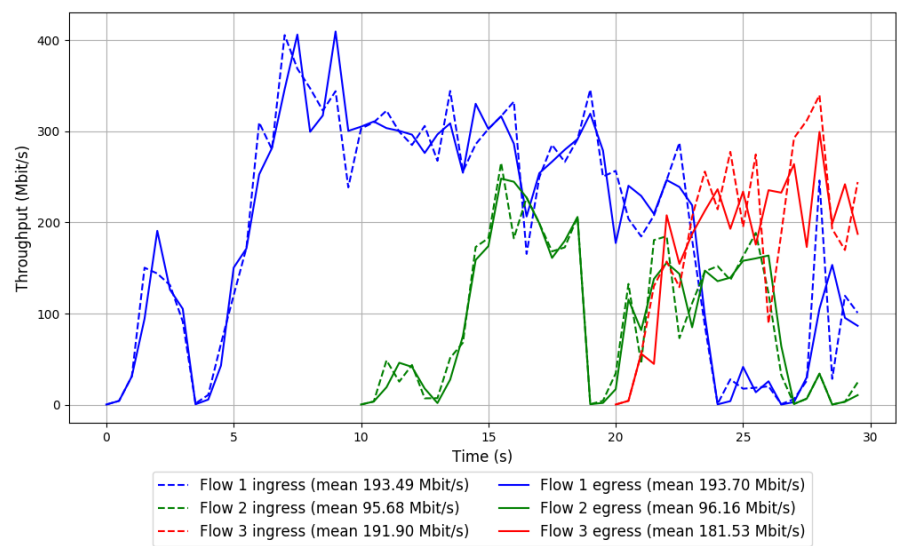


```
Run 1: Statistics of Verus

Start at: 2017-11-30 20:05:32
End at: 2017-11-30 20:06:02

# Below is generated by plot.py at 2017-12-01 01:10:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.83 Mbit/s
95th percentile per-packet one-way delay: 192.217 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 193.70 Mbit/s
95th percentile per-packet one-way delay: 167.561 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 132.448 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 181.53 Mbit/s
95th percentile per-packet one-way delay: 248.757 ms
Loss rate: 5.08%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 20:18:48

End at: 2017-11-30 20:19:18

Below is generated by plot.py at 2017-12-01 01:10:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.17 Mbit/s

95th percentile per-packet one-way delay: 218.020 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 146.06 Mbit/s

95th percentile per-packet one-way delay: 198.390 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 202.47 Mbit/s

95th percentile per-packet one-way delay: 225.176 ms

Loss rate: 1.91%

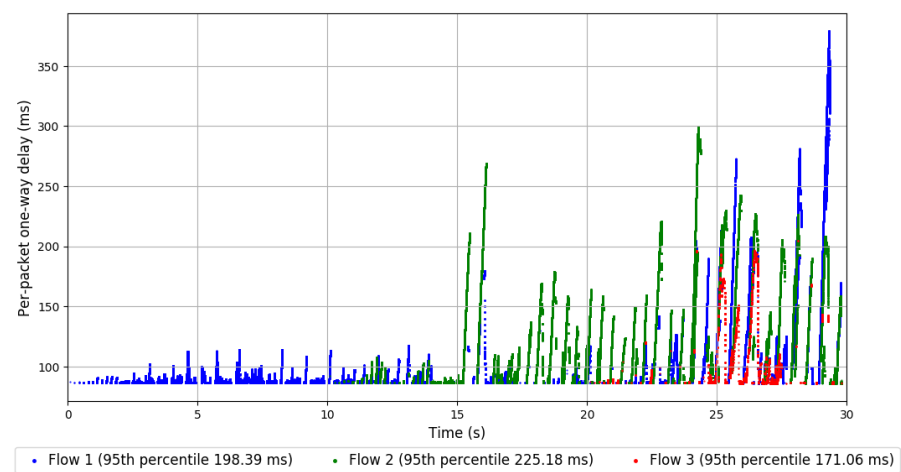
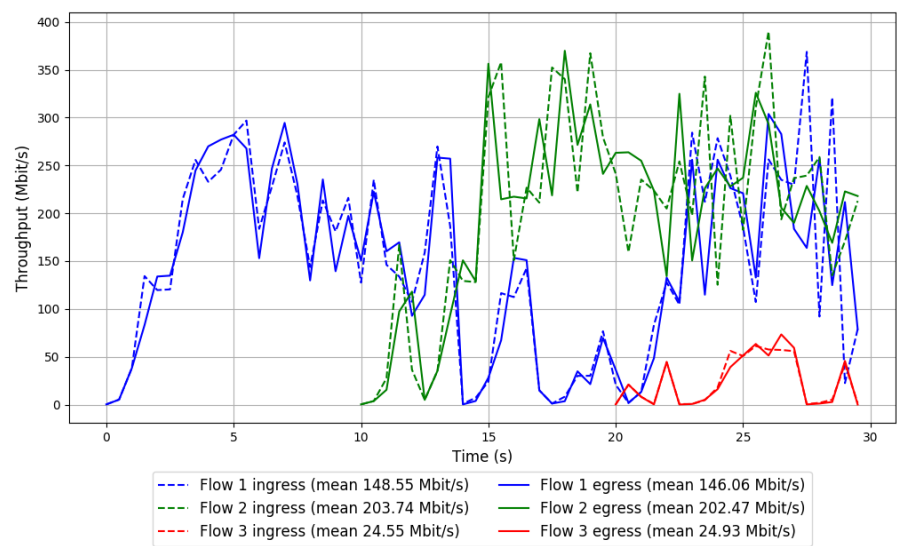
-- Flow 3:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 171.060 ms

Loss rate: 0.88%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 20:31:53

End at: 2017-11-30 20:32:23

Below is generated by plot.py at 2017-12-01 01:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.77 Mbit/s

95th percentile per-packet one-way delay: 219.173 ms

Loss rate: 2.79%

-- Flow 1:

Average throughput: 207.96 Mbit/s

95th percentile per-packet one-way delay: 212.894 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 68.62 Mbit/s

95th percentile per-packet one-way delay: 168.052 ms

Loss rate: 2.10%

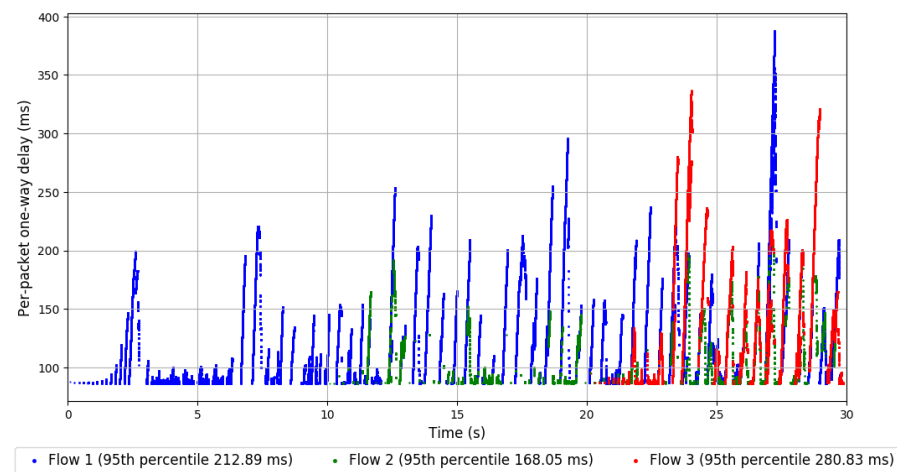
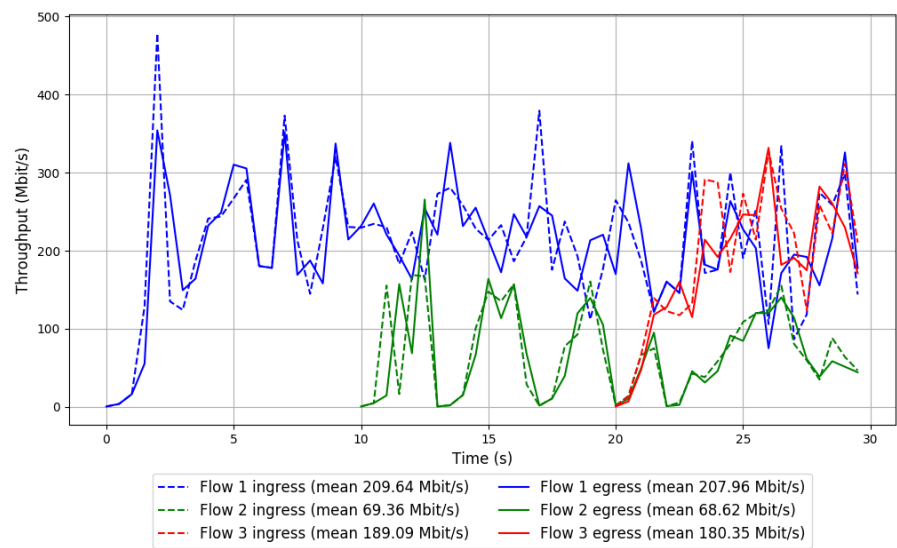
-- Flow 3:

Average throughput: 180.35 Mbit/s

95th percentile per-packet one-way delay: 280.832 ms

Loss rate: 6.66%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 20:45:20

End at: 2017-11-30 20:45:50

Below is generated by plot.py at 2017-12-01 01:11:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.63 Mbit/s

95th percentile per-packet one-way delay: 197.945 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 220.06 Mbit/s

95th percentile per-packet one-way delay: 165.745 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 142.34 Mbit/s

95th percentile per-packet one-way delay: 250.951 ms

Loss rate: 1.63%

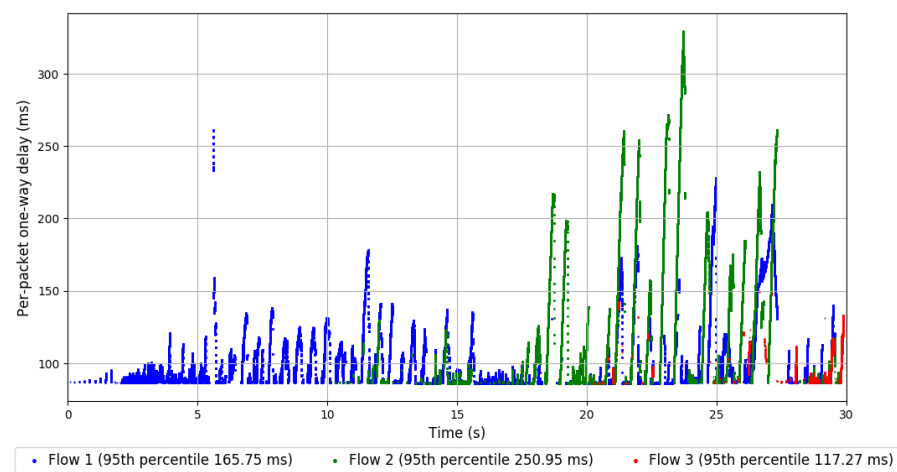
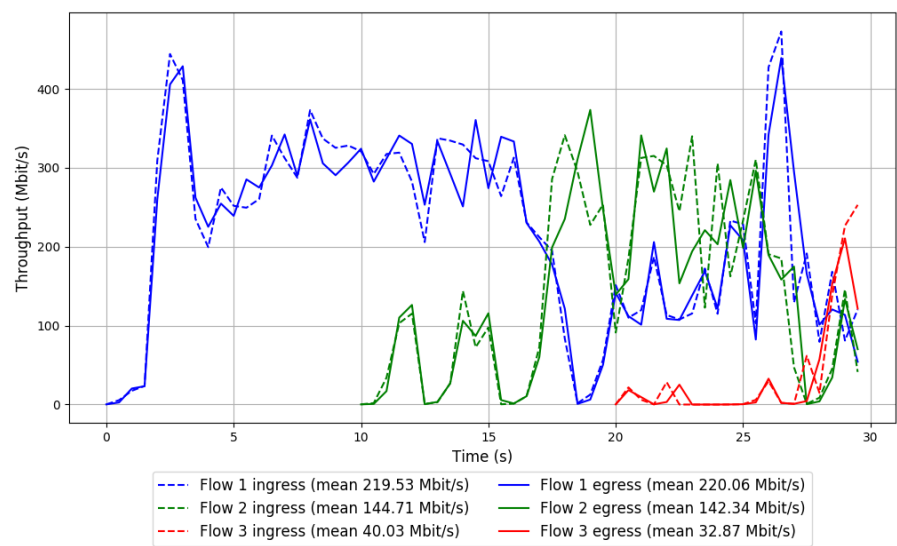
-- Flow 3:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 117.266 ms

Loss rate: 18.65%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 20:58:43

End at: 2017-11-30 20:59:13

Below is generated by plot.py at 2017-12-01 01:11:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.67 Mbit/s

95th percentile per-packet one-way delay: 134.524 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 134.52 Mbit/s

95th percentile per-packet one-way delay: 131.297 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 126.873 ms

Loss rate: 0.04%

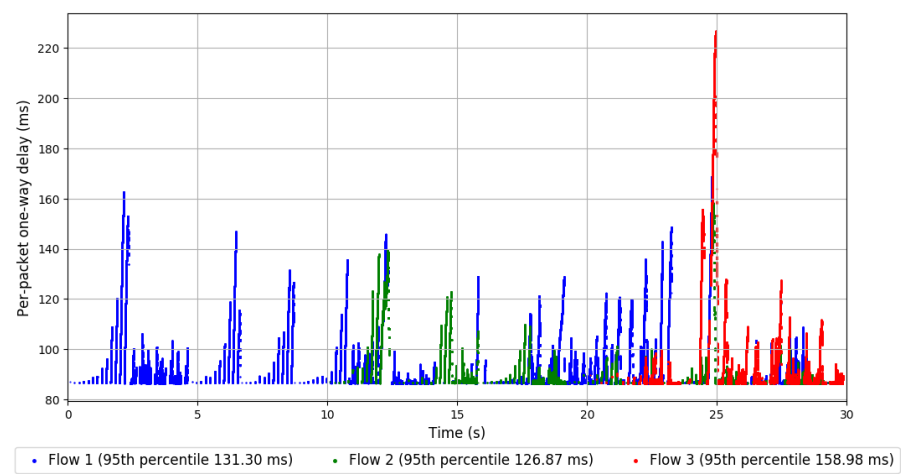
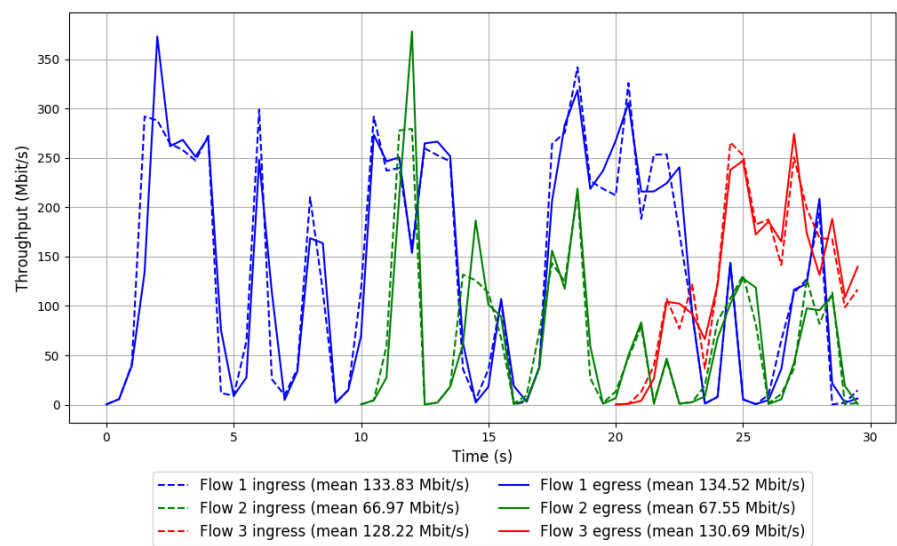
-- Flow 3:

Average throughput: 130.69 Mbit/s

95th percentile per-packet one-way delay: 158.979 ms

Loss rate: 0.36%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 21:12:07

End at: 2017-11-30 21:12:37

Below is generated by plot.py at 2017-12-01 01:11:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.46 Mbit/s

95th percentile per-packet one-way delay: 247.189 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 185.77 Mbit/s

95th percentile per-packet one-way delay: 257.098 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 186.642 ms

Loss rate: 2.11%

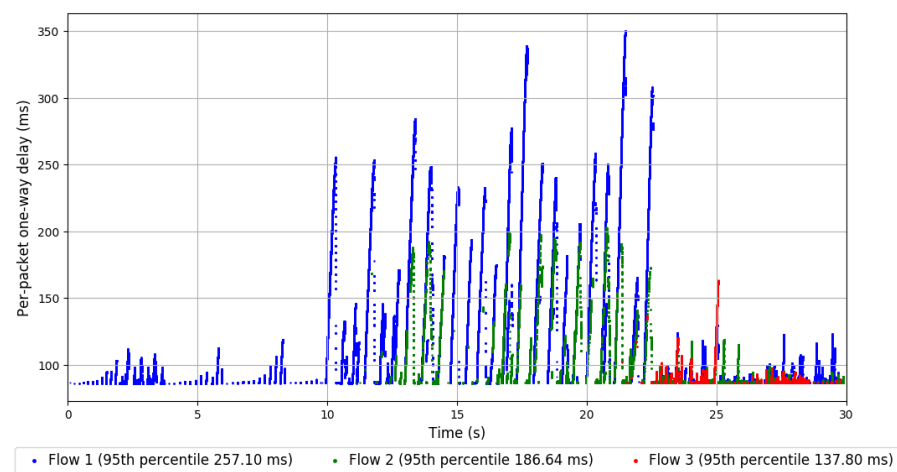
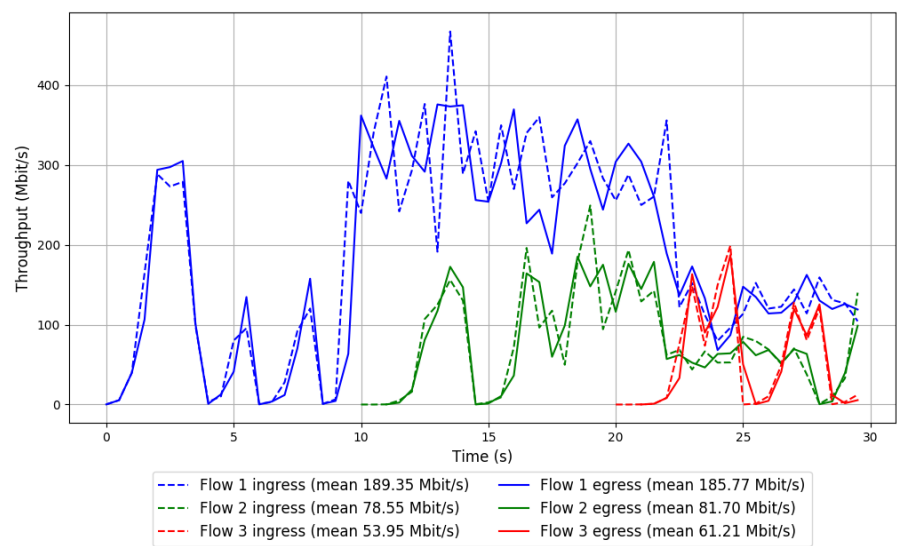
-- Flow 3:

Average throughput: 61.21 Mbit/s

95th percentile per-packet one-way delay: 137.799 ms

Loss rate: 0.81%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 21:25:40

End at: 2017-11-30 21:26:10

Below is generated by plot.py at 2017-12-01 01:12:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.38 Mbit/s

95th percentile per-packet one-way delay: 156.689 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 168.786 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 109.485 ms

Loss rate: 0.56%

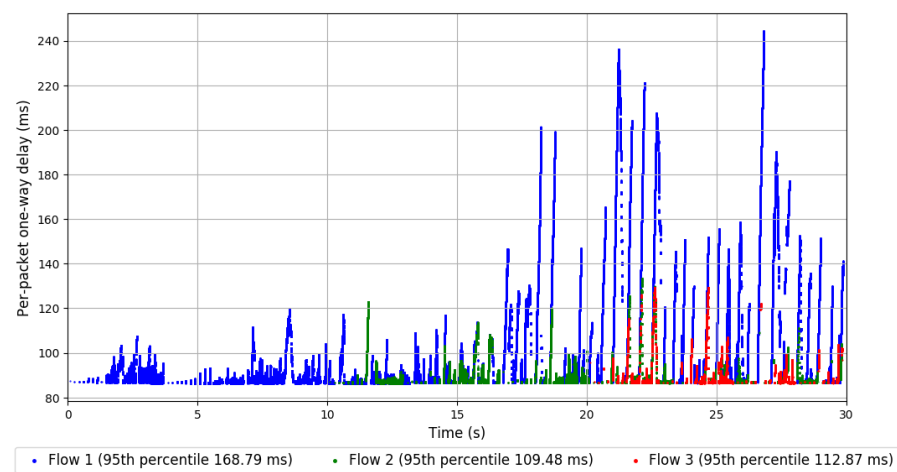
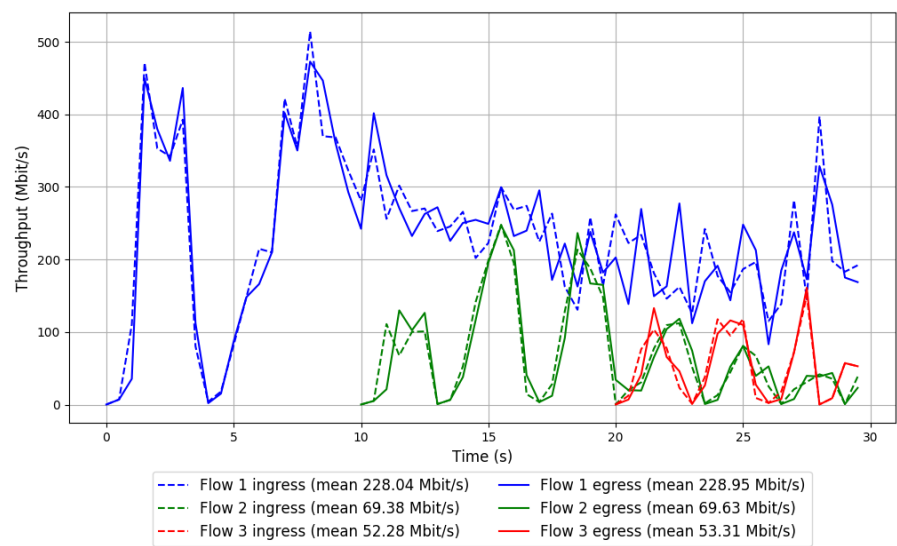
-- Flow 3:

Average throughput: 53.31 Mbit/s

95th percentile per-packet one-way delay: 112.873 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 21:38:59

End at: 2017-11-30 21:39:29

Below is generated by plot.py at 2017-12-01 01:14:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.25 Mbit/s

95th percentile per-packet one-way delay: 123.058 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 182.69 Mbit/s

95th percentile per-packet one-way delay: 118.116 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 127.96 Mbit/s

95th percentile per-packet one-way delay: 138.662 ms

Loss rate: 1.42%

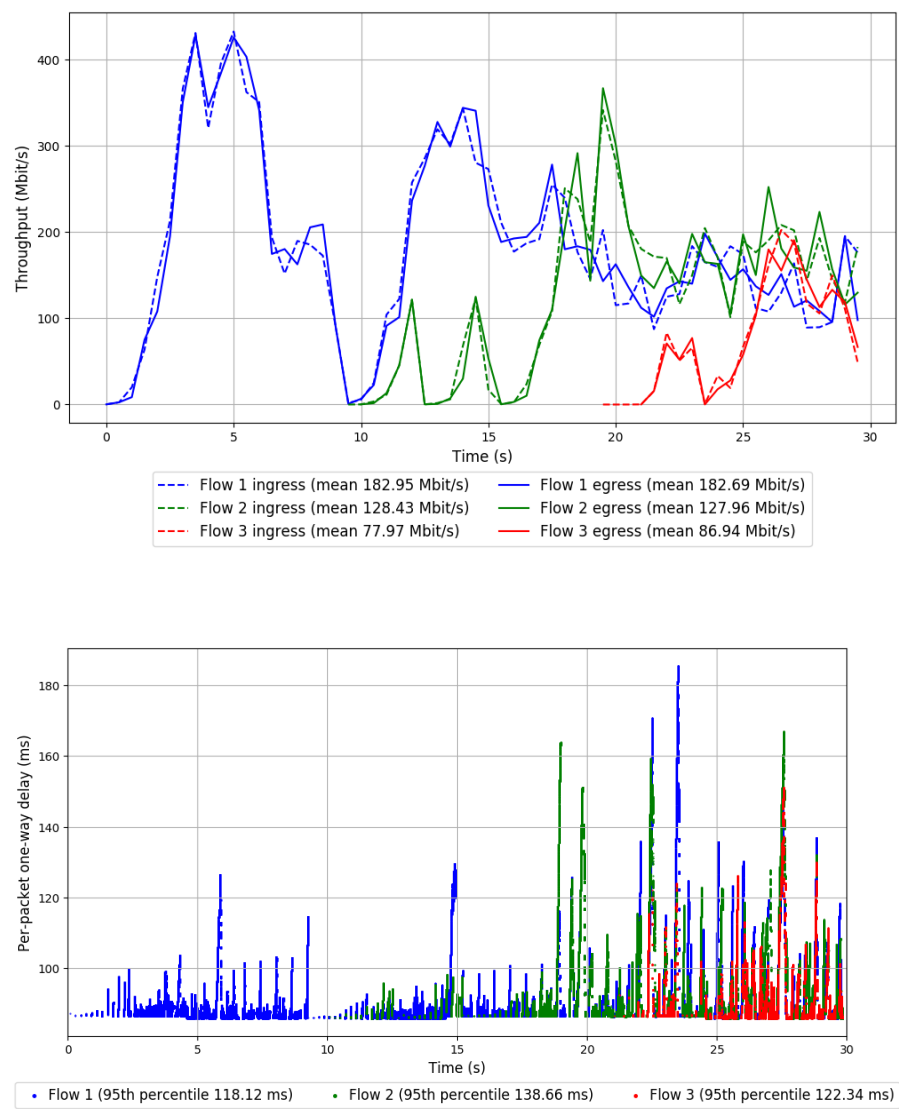
-- Flow 3:

Average throughput: 86.94 Mbit/s

95th percentile per-packet one-way delay: 122.336 ms

Loss rate: 0.05%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 21:52:35

End at: 2017-11-30 21:53:05

Below is generated by plot.py at 2017-12-01 01:14:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.70 Mbit/s

95th percentile per-packet one-way delay: 177.738 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 147.67 Mbit/s

95th percentile per-packet one-way delay: 203.374 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 79.94 Mbit/s

95th percentile per-packet one-way delay: 122.780 ms

Loss rate: 1.88%

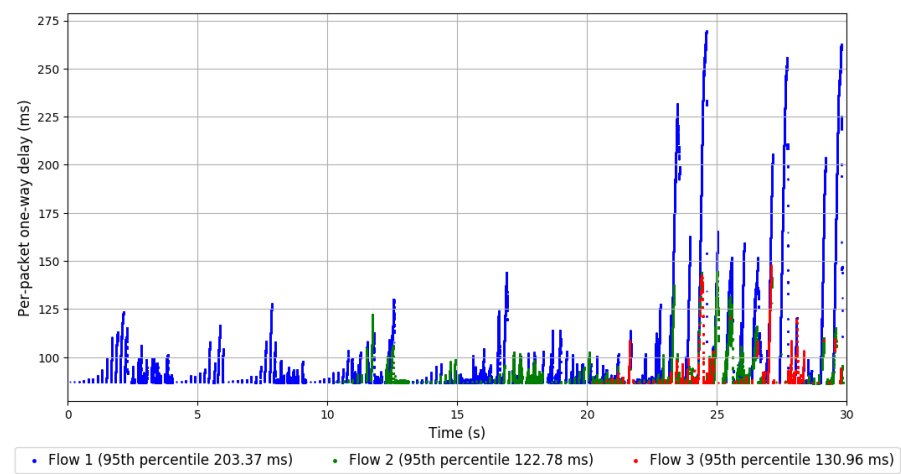
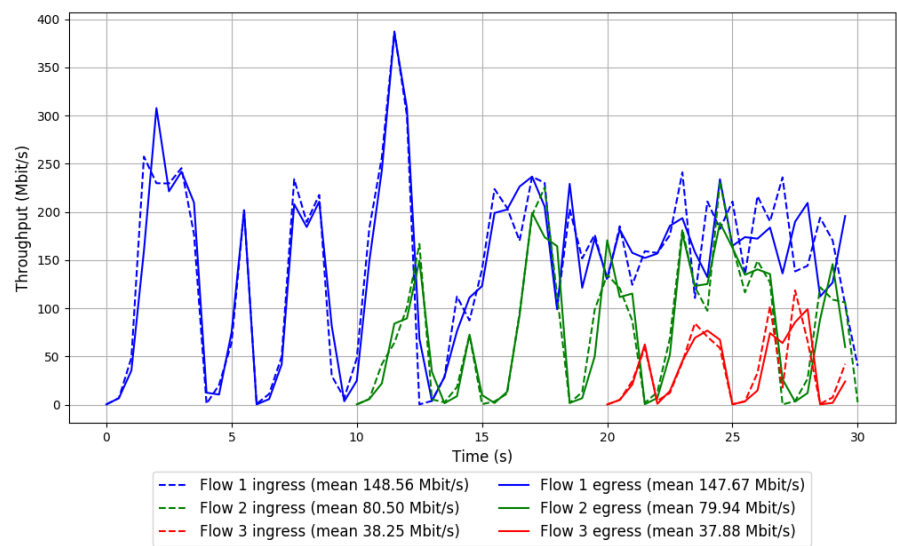
-- Flow 3:

Average throughput: 37.88 Mbit/s

95th percentile per-packet one-way delay: 130.956 ms

Loss rate: 3.26%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 22:06:05

End at: 2017-11-30 22:06:35

Below is generated by plot.py at 2017-12-01 01:14:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.99 Mbit/s

95th percentile per-packet one-way delay: 125.790 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 126.75 Mbit/s

95th percentile per-packet one-way delay: 104.054 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 101.87 Mbit/s

95th percentile per-packet one-way delay: 148.484 ms

Loss rate: 3.01%

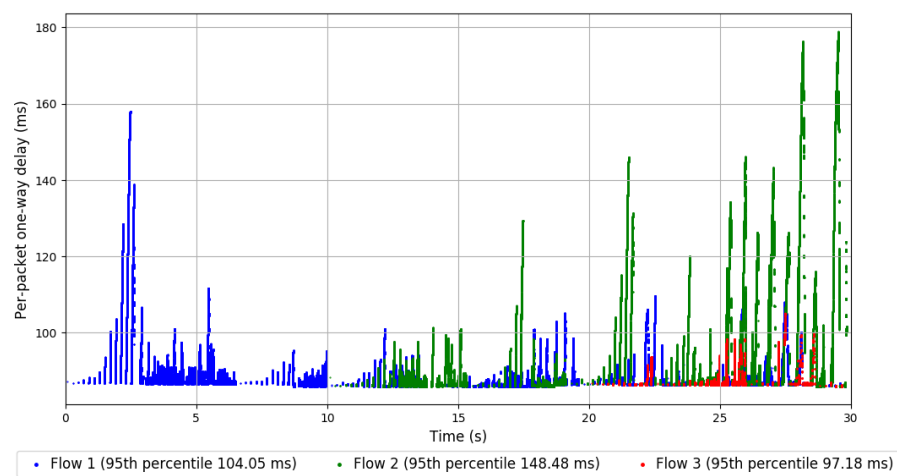
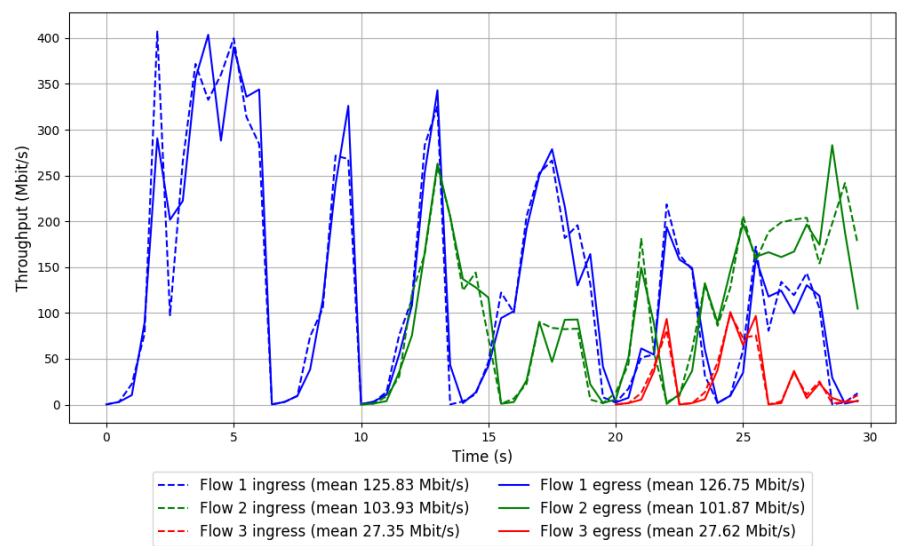
-- Flow 3:

Average throughput: 27.62 Mbit/s

95th percentile per-packet one-way delay: 97.183 ms

Loss rate: 1.22%

Run 10: Report of Verus — Data Link

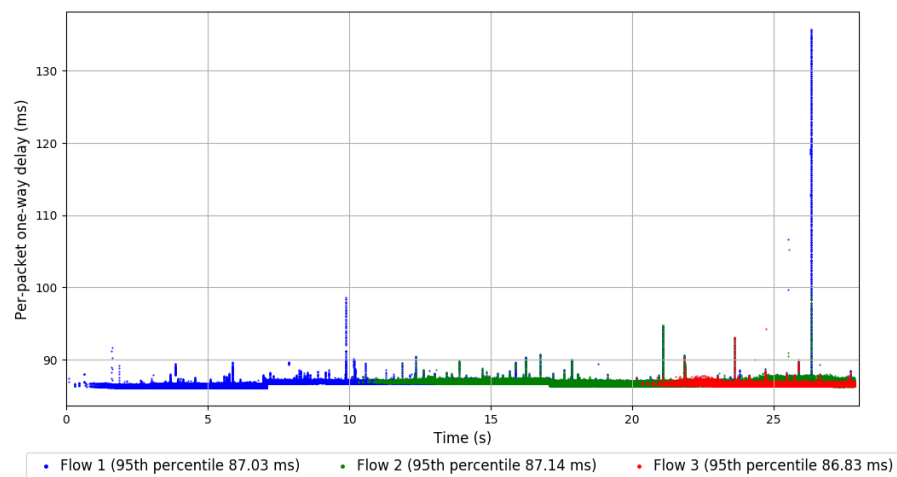
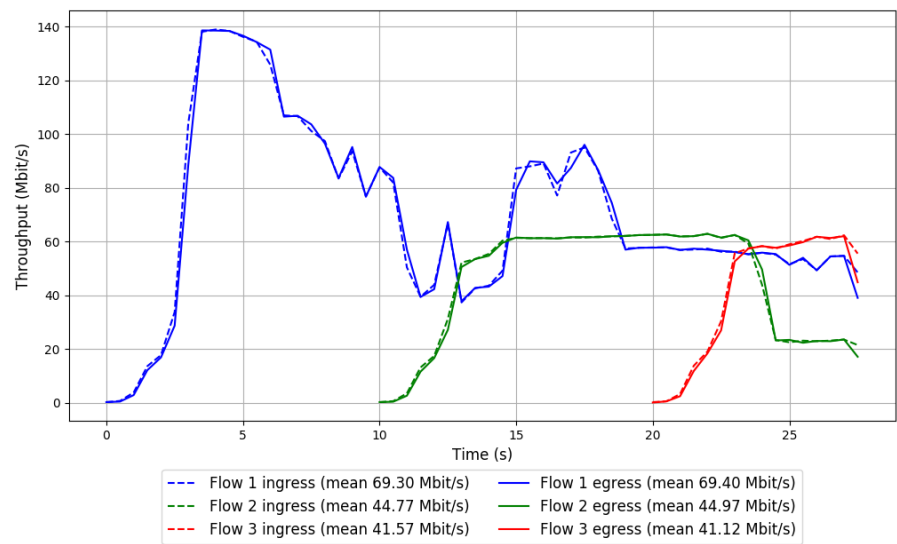


```
Run 1: Statistics of Copa

Start at: 2017-11-30 20:09:24
End at: 2017-11-30 20:09:54

# Below is generated by plot.py at 2017-12-01 01:14:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.57 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 69.40 Mbit/s
95th percentile per-packet one-way delay: 87.035 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 87.145 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 86.828 ms
Loss rate: 3.25%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 20:22:28

End at: 2017-11-30 20:22:58

Below is generated by plot.py at 2017-12-01 01:14:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.48 Mbit/s

95th percentile per-packet one-way delay: 86.985 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 53.96 Mbit/s

95th percentile per-packet one-way delay: 86.971 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 62.30 Mbit/s

95th percentile per-packet one-way delay: 86.964 ms

Loss rate: 0.82%

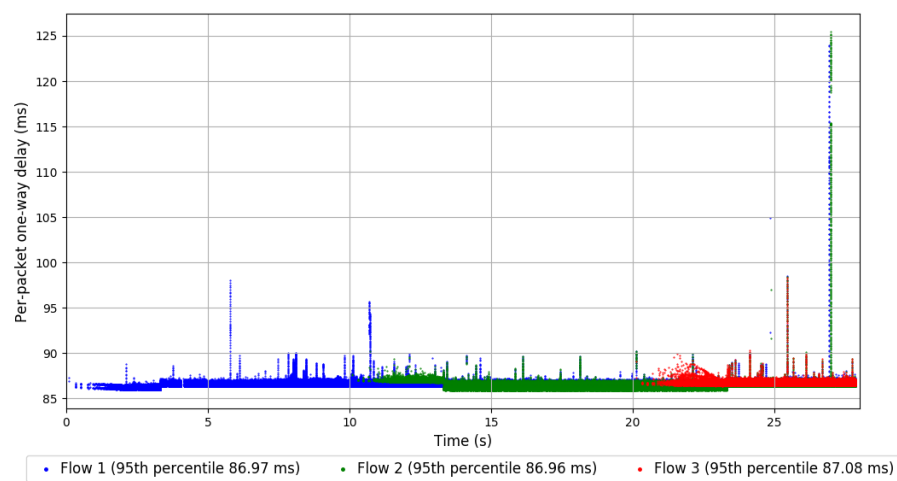
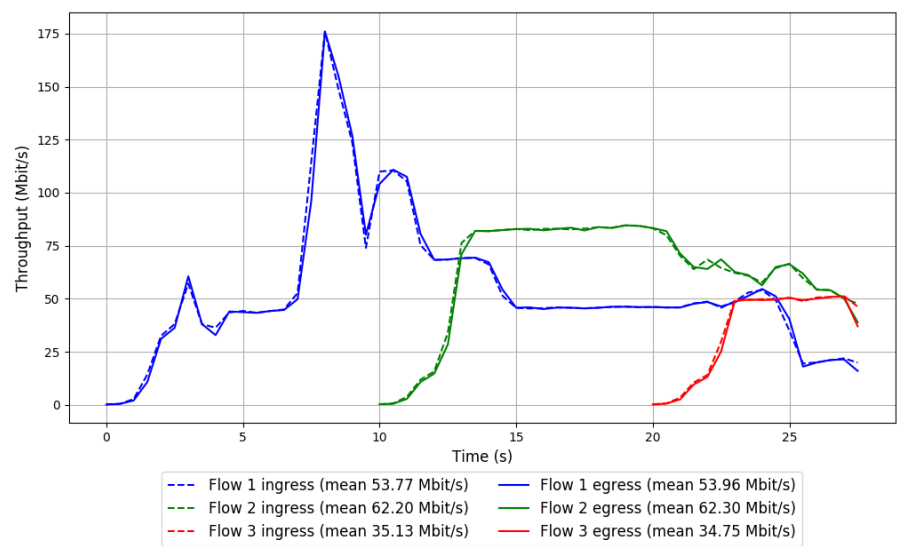
-- Flow 3:

Average throughput: 34.75 Mbit/s

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

Loss rate: 3.27%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 20:35:50

End at: 2017-11-30 20:36:20

Below is generated by plot.py at 2017-12-01 01:14:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.60 Mbit/s

95th percentile per-packet one-way delay: 86.917 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 86.944 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 52.12 Mbit/s

95th percentile per-packet one-way delay: 86.818 ms

Loss rate: 0.77%

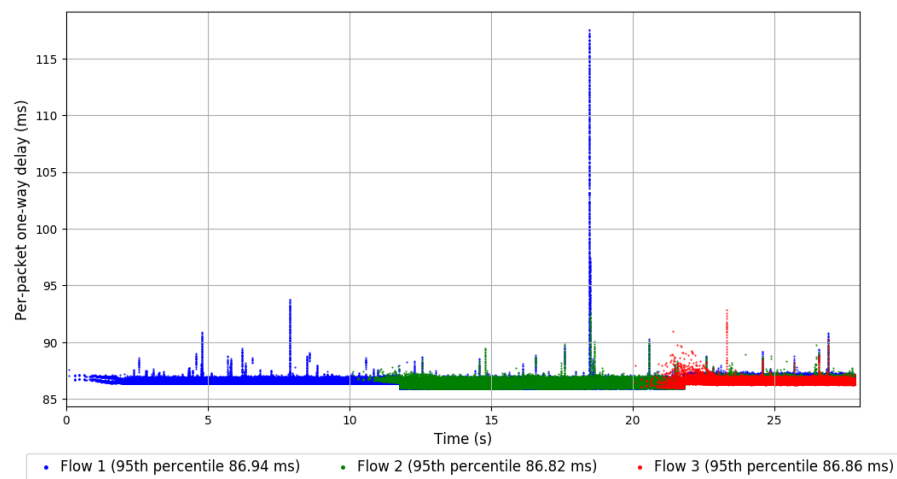
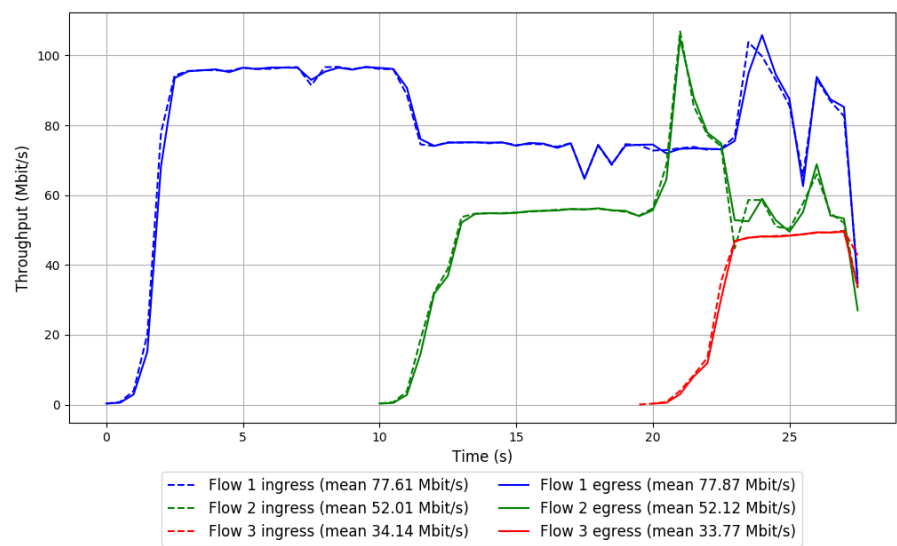
-- Flow 3:

Average throughput: 33.77 Mbit/s

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

Loss rate: 3.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 20:49:12

End at: 2017-11-30 20:49:42

Below is generated by plot.py at 2017-12-01 01:15:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.11 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 86.855 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 68.27 Mbit/s

95th percentile per-packet one-way delay: 86.879 ms

Loss rate: 0.71%

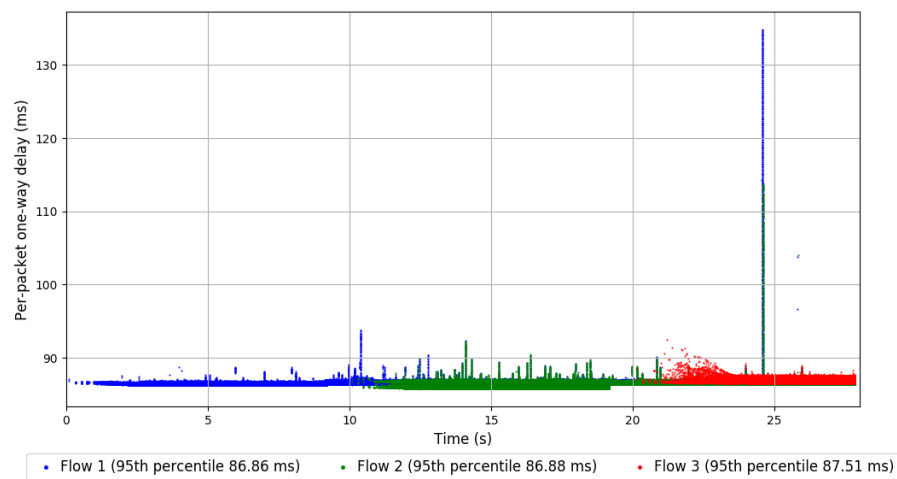
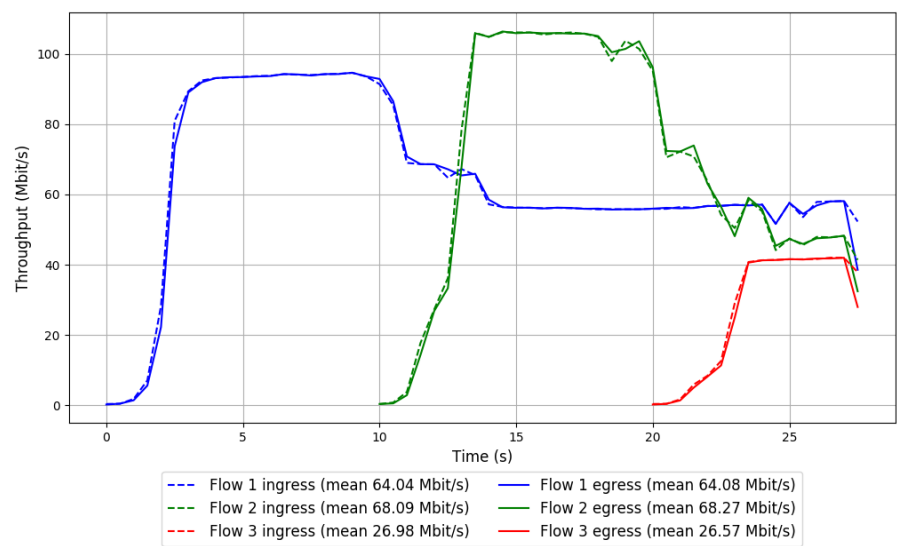
-- Flow 3:

Average throughput: 26.57 Mbit/s

95th percentile per-packet one-way delay: 87.511 ms

Loss rate: 4.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 21:02:28

End at: 2017-11-30 21:02:58

Below is generated by plot.py at 2017-12-01 01:15:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.26 Mbit/s

95th percentile per-packet one-way delay: 86.931 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 53.31 Mbit/s

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

Loss rate: 0.19%

-- Flow 2:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 86.732 ms

Loss rate: 1.03%

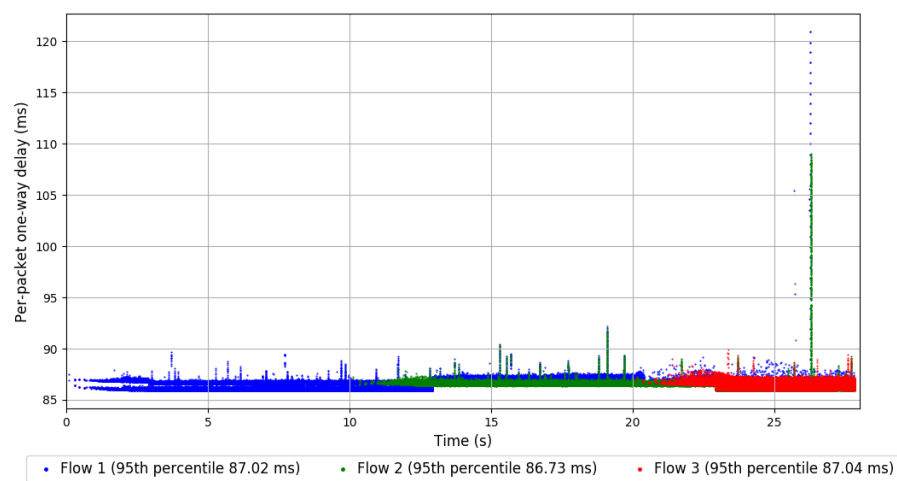
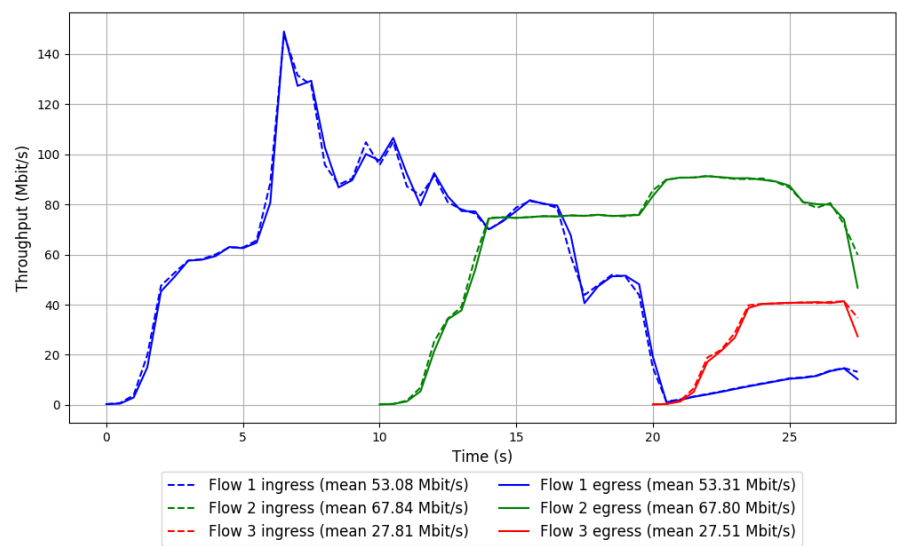
-- Flow 3:

Average throughput: 27.51 Mbit/s

95th percentile per-packet one-way delay: 87.044 ms

Loss rate: 3.29%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 21:15:56

End at: 2017-11-30 21:16:26

Below is generated by plot.py at 2017-12-01 01:17:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.70 Mbit/s

95th percentile per-packet one-way delay: 87.118 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 68.95 Mbit/s

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

Loss rate: 0.55%

-- Flow 2:

Average throughput: 52.89 Mbit/s

95th percentile per-packet one-way delay: 87.152 ms

Loss rate: 0.68%

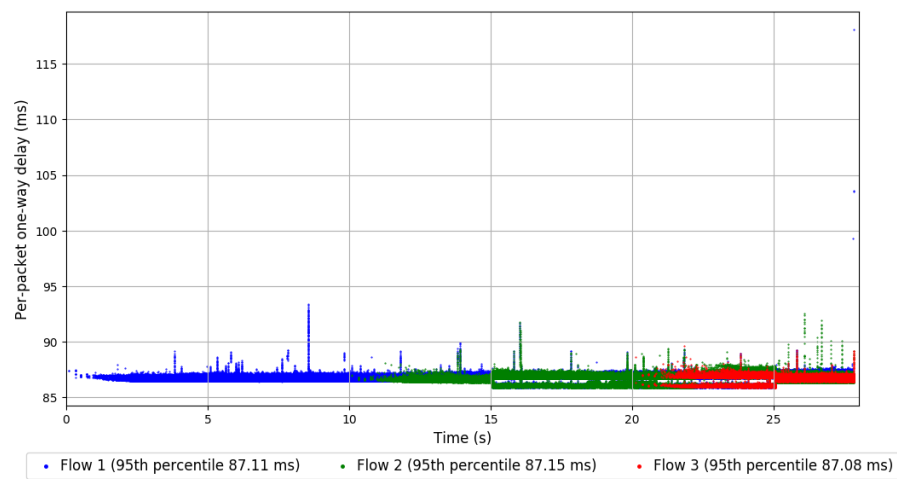
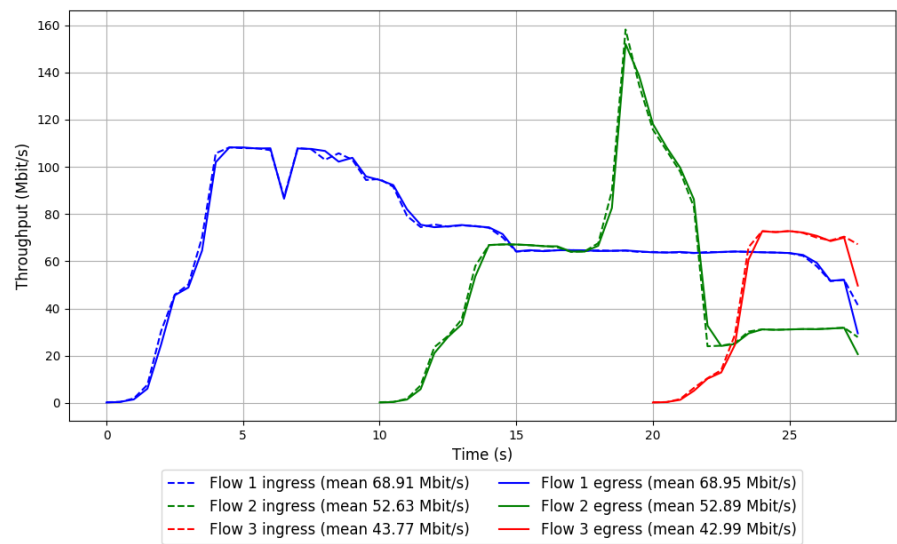
-- Flow 3:

Average throughput: 42.99 Mbit/s

95th percentile per-packet one-way delay: 87.076 ms

Loss rate: 4.33%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-30 21:29:33

End at: 2017-11-30 21:30:03

Below is generated by plot.py at 2017-12-01 01:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.97 Mbit/s

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

Loss rate: 0.95%

-- Flow 1:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 87.195 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 62.74 Mbit/s

95th percentile per-packet one-way delay: 86.698 ms

Loss rate: 1.08%

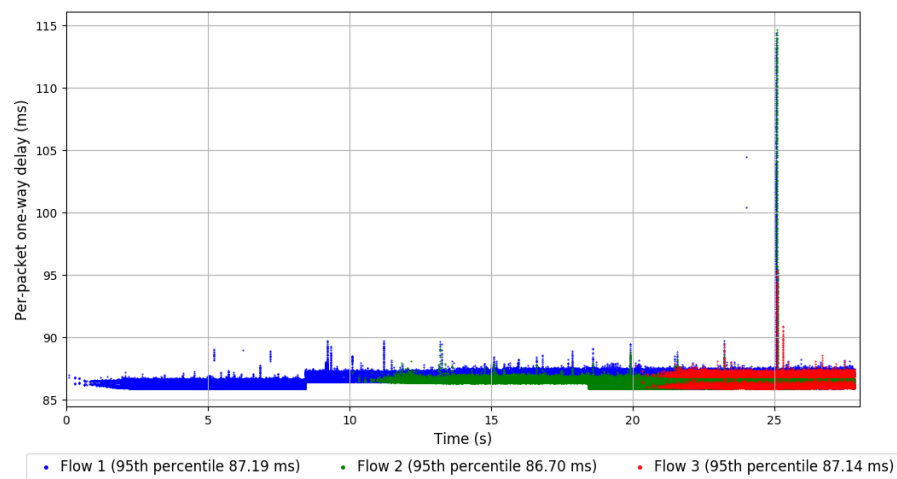
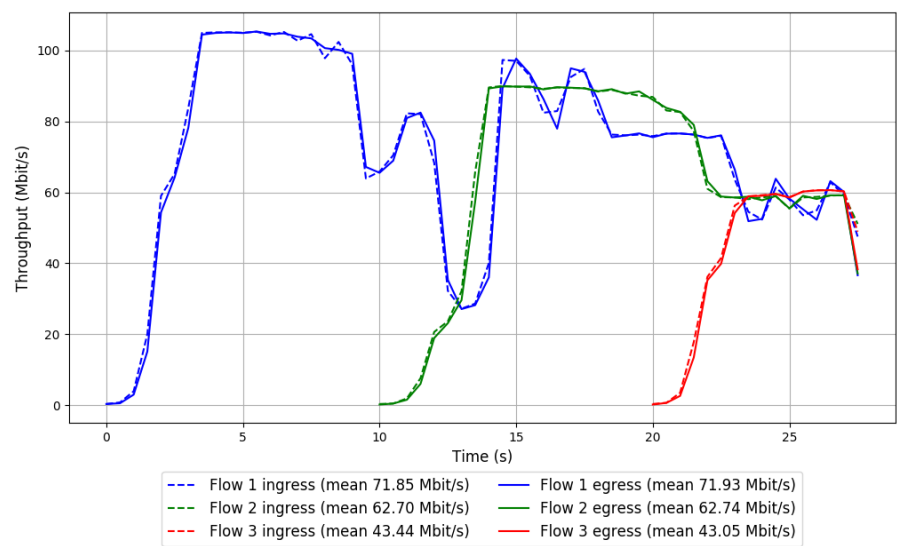
-- Flow 3:

Average throughput: 43.05 Mbit/s

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

Loss rate: 3.09%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 21:42:55

End at: 2017-11-30 21:43:25

Below is generated by plot.py at 2017-12-01 01:17:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.91 Mbit/s

95th percentile per-packet one-way delay: 86.807 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 86.767 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 56.71 Mbit/s

95th percentile per-packet one-way delay: 86.858 ms

Loss rate: 0.64%

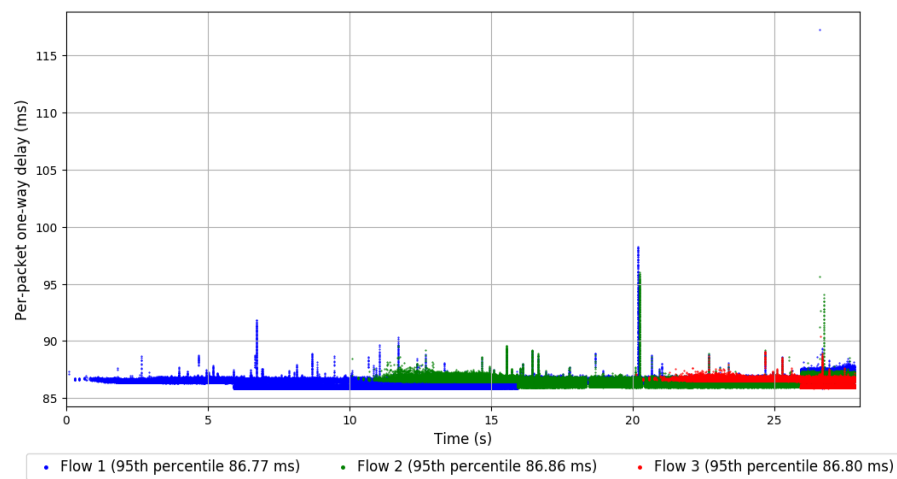
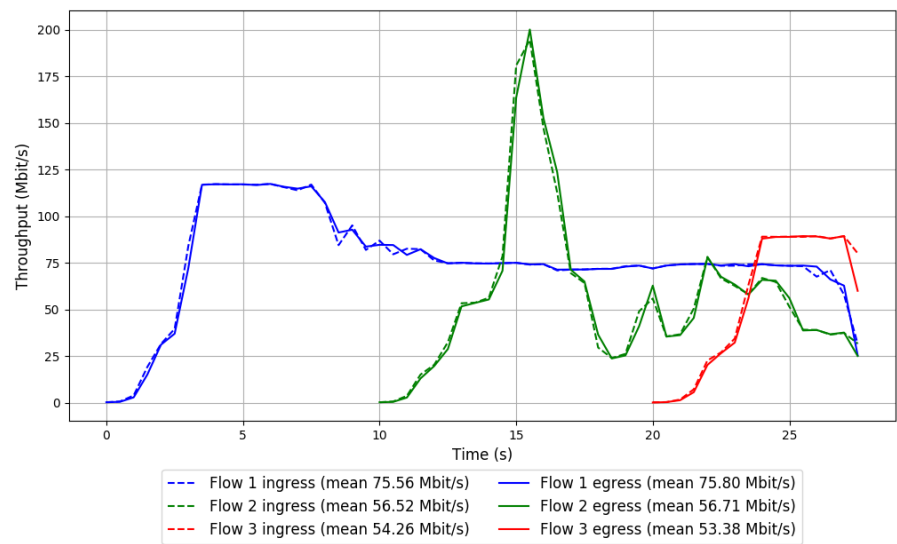
-- Flow 3:

Average throughput: 53.38 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 4.13%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-30 21:56:22

End at: 2017-11-30 21:56:52

Below is generated by plot.py at 2017-12-01 01:17:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 86.890 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 86.927 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 86.665 ms

Loss rate: 1.09%

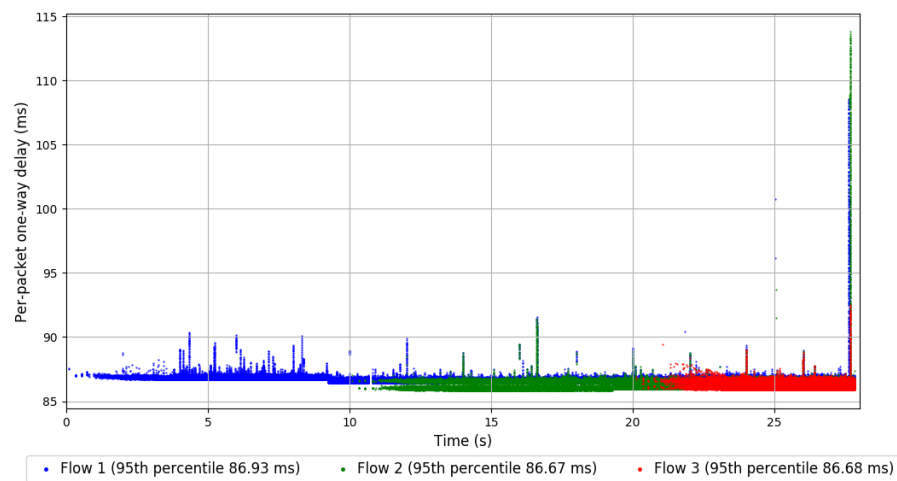
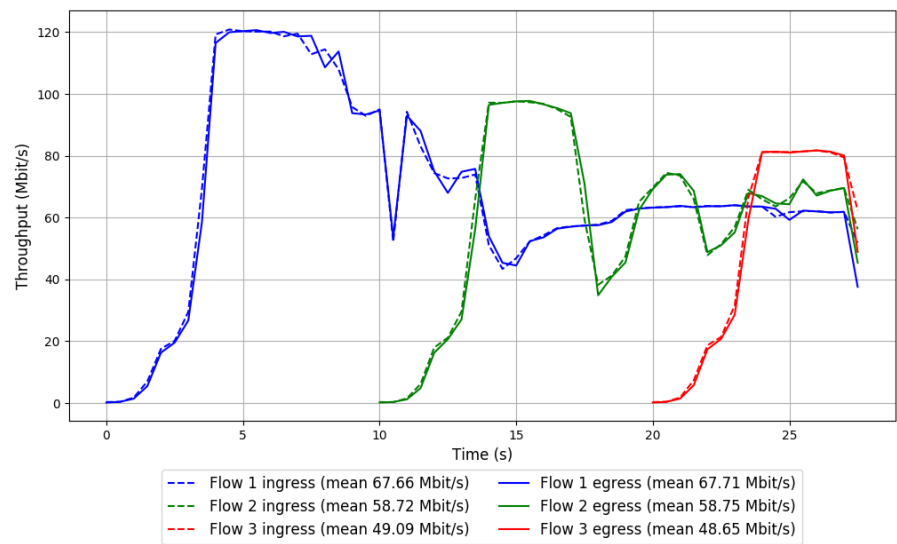
-- Flow 3:

Average throughput: 48.65 Mbit/s

95th percentile per-packet one-way delay: 86.681 ms

Loss rate: 3.44%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 22:09:51

End at: 2017-11-30 22:10:21

Below is generated by plot.py at 2017-12-01 01:18:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.97 Mbit/s

95th percentile per-packet one-way delay: 86.926 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 67.04 Mbit/s

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

Loss rate: 1.13%

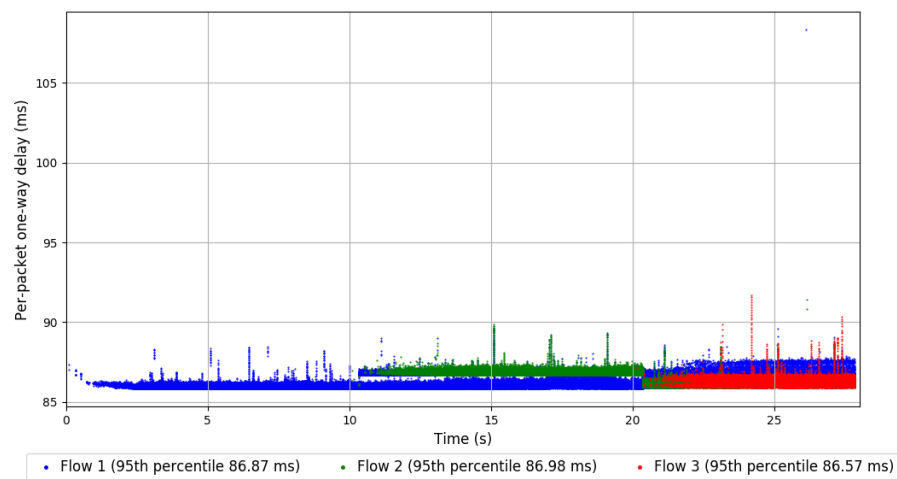
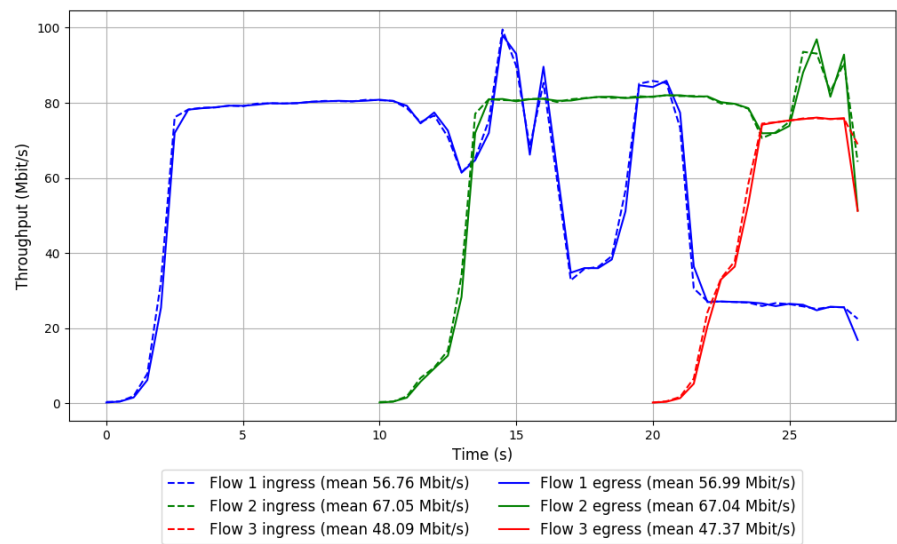
-- Flow 3:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 86.570 ms

Loss rate: 4.01%

Run 10: Report of Copa — Data Link

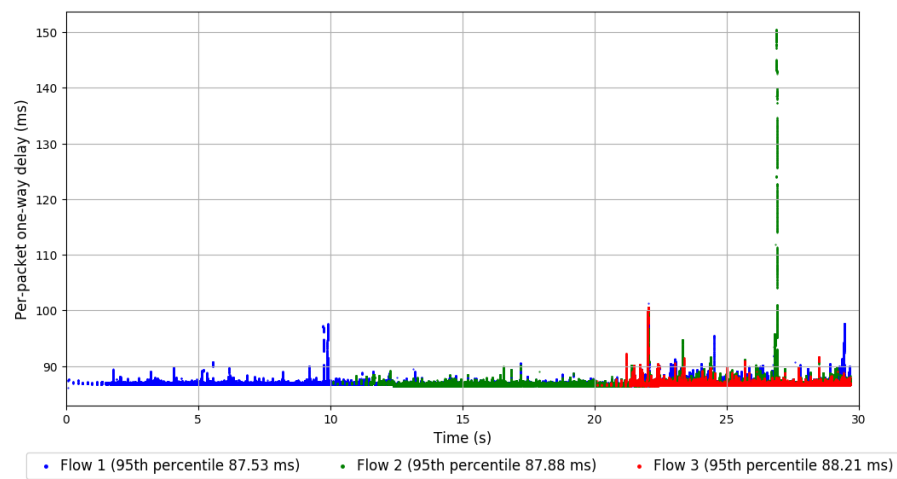
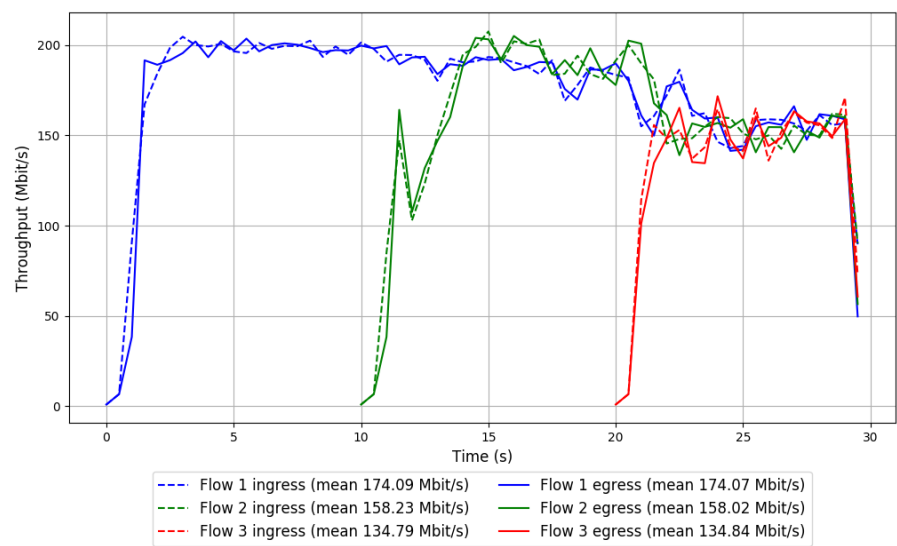


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 20:06:41
End at: 2017-11-30 20:07:11

# Below is generated by plot.py at 2017-12-01 01:20:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.30 Mbit/s
95th percentile per-packet one-way delay: 87.750 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 174.07 Mbit/s
95th percentile per-packet one-way delay: 87.526 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 158.02 Mbit/s
95th percentile per-packet one-way delay: 87.884 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 134.84 Mbit/s
95th percentile per-packet one-way delay: 88.209 ms
Loss rate: 1.74%
```


Run 1: Report of Indigo — Data Link

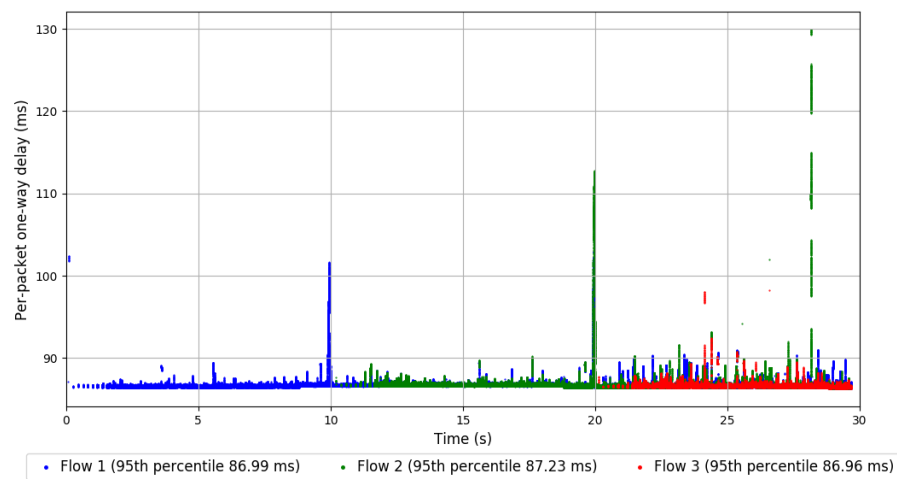
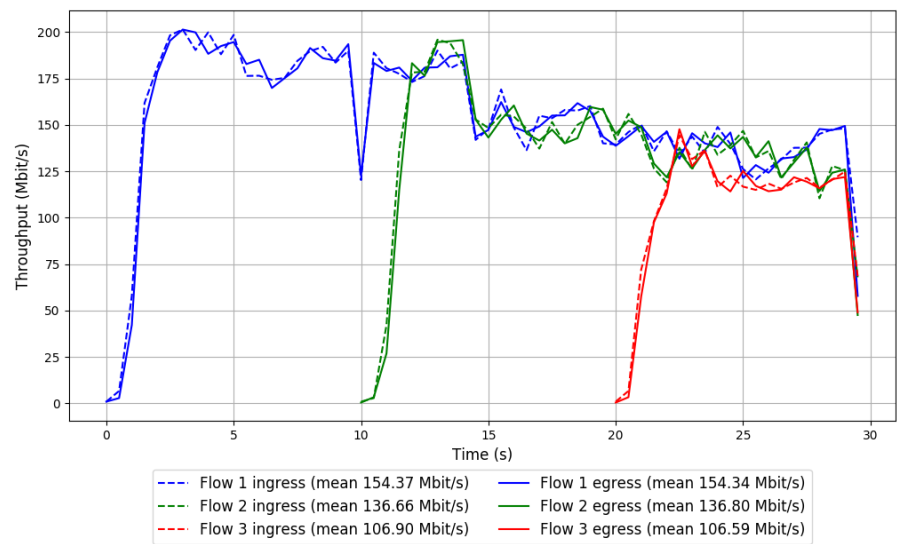


```
Run 2: Statistics of Indigo

Start at: 2017-11-30 20:19:54
End at: 2017-11-30 20:20:24

# Below is generated by plot.py at 2017-12-01 01:20:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.77 Mbit/s
95th percentile per-packet one-way delay: 87.049 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 154.34 Mbit/s
95th percentile per-packet one-way delay: 86.989 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 136.80 Mbit/s
95th percentile per-packet one-way delay: 87.228 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 106.59 Mbit/s
95th percentile per-packet one-way delay: 86.959 ms
Loss rate: 2.07%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 20:33:02

End at: 2017-11-30 20:33:32

Below is generated by plot.py at 2017-12-01 01:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.86 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 172.36 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 86.840 ms

Loss rate: 0.90%

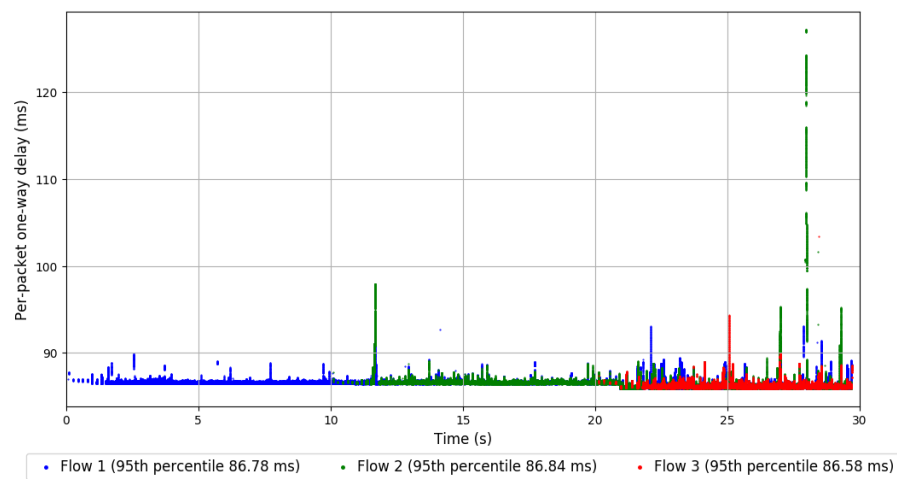
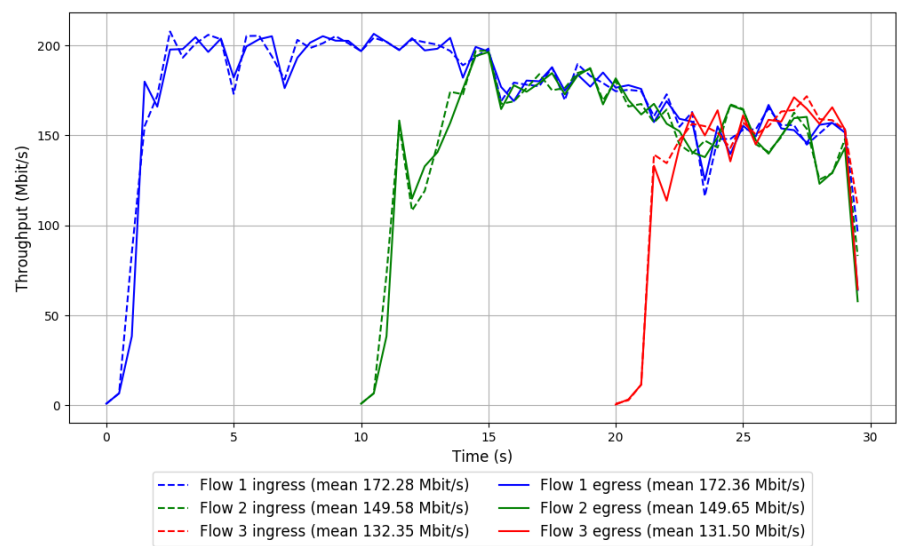
-- Flow 3:

Average throughput: 131.50 Mbit/s

95th percentile per-packet one-way delay: 86.576 ms

Loss rate: 2.71%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 20:46:31

End at: 2017-11-30 20:47:01

Below is generated by plot.py at 2017-12-01 01:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.26 Mbit/s

95th percentile per-packet one-way delay: 87.237 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 165.00 Mbit/s

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

Loss rate: 0.62%

-- Flow 2:

Average throughput: 147.75 Mbit/s

95th percentile per-packet one-way delay: 87.366 ms

Loss rate: 0.86%

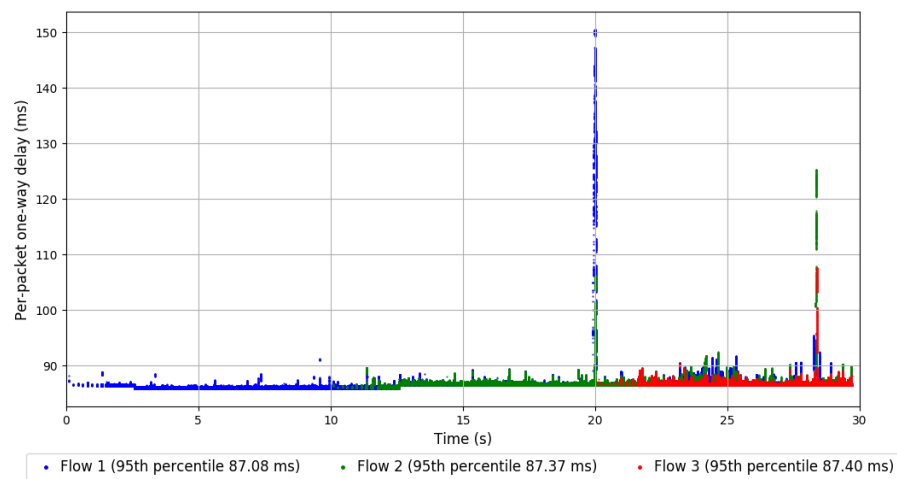
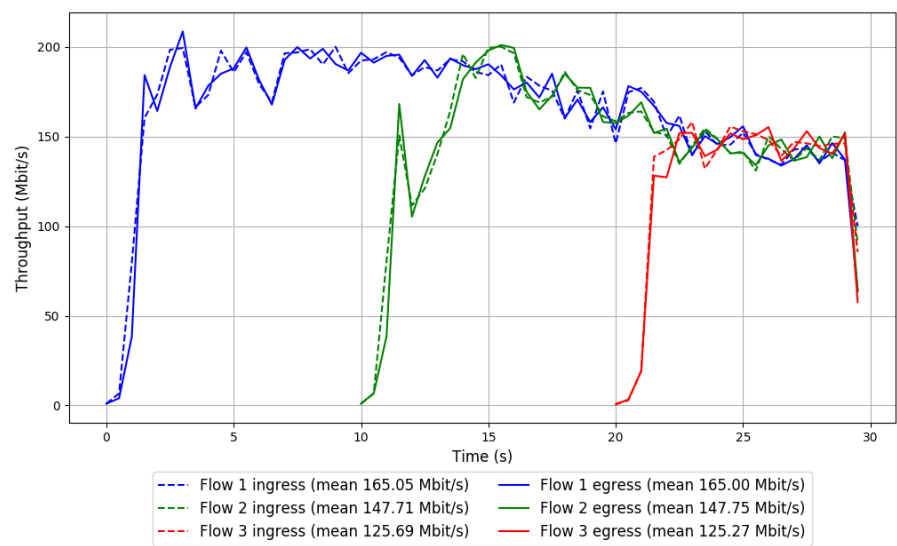
-- Flow 3:

Average throughput: 125.27 Mbit/s

95th percentile per-packet one-way delay: 87.399 ms

Loss rate: 2.12%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 20:59:46

End at: 2017-11-30 21:00:16

Below is generated by plot.py at 2017-12-01 01:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.97 Mbit/s

95th percentile per-packet one-way delay: 87.485 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 163.57 Mbit/s

95th percentile per-packet one-way delay: 87.092 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 88.224 ms

Loss rate: 0.98%

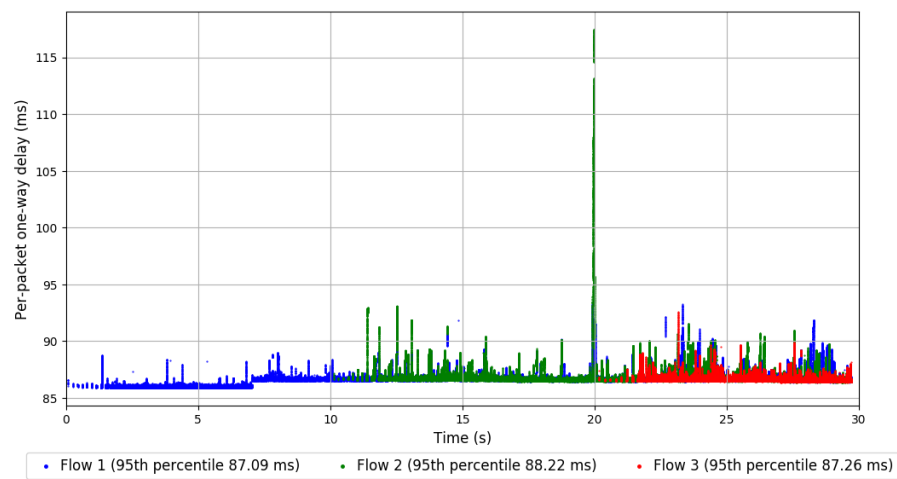
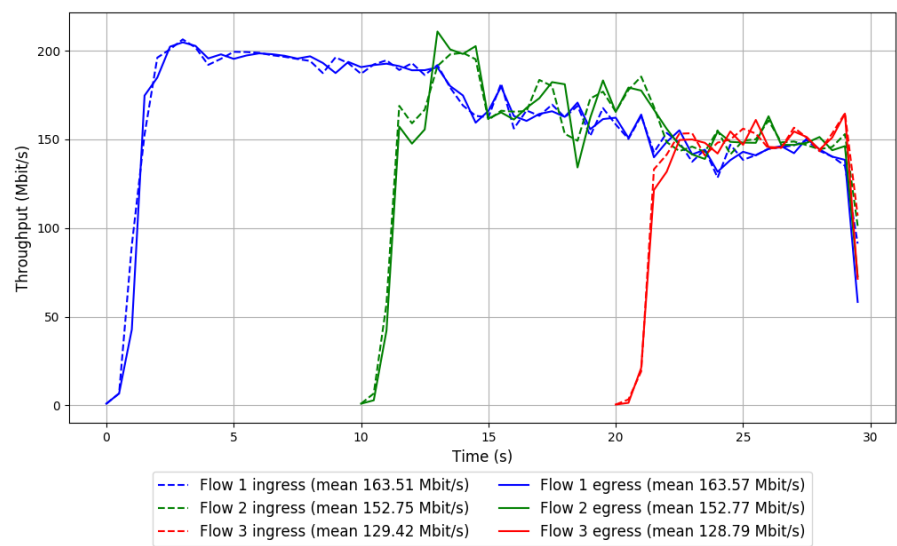
-- Flow 3:

Average throughput: 128.79 Mbit/s

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

Loss rate: 2.48%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 21:13:11

End at: 2017-11-30 21:13:41

Below is generated by plot.py at 2017-12-01 01:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.83 Mbit/s

95th percentile per-packet one-way delay: 87.330 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 162.53 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 152.79 Mbit/s

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

Loss rate: 0.92%

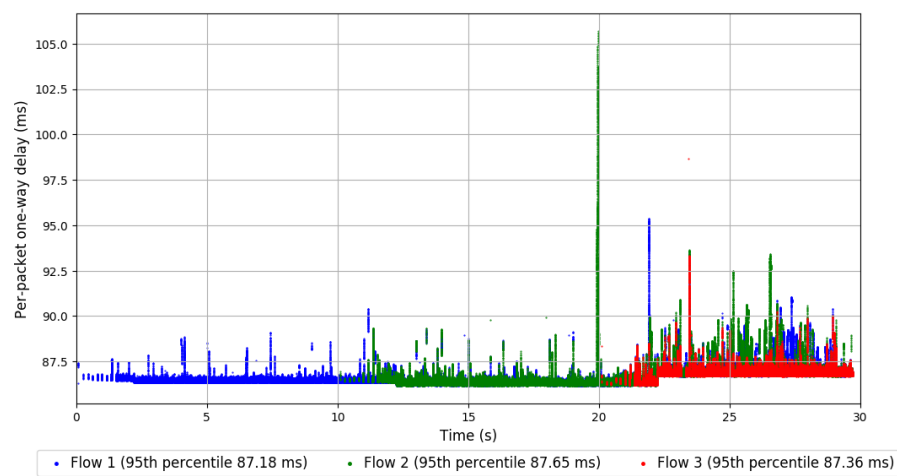
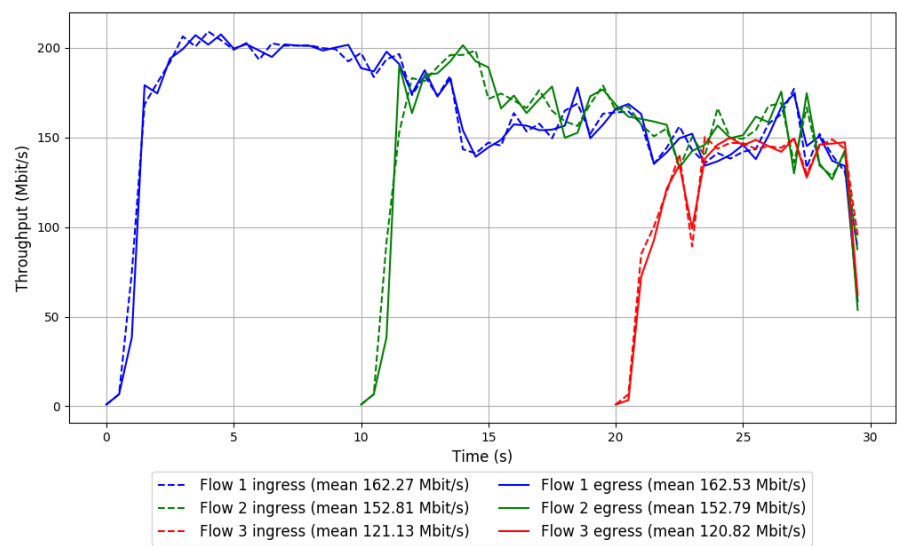
-- Flow 3:

Average throughput: 120.82 Mbit/s

95th percentile per-packet one-way delay: 87.364 ms

Loss rate: 2.34%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 21:26:49

End at: 2017-11-30 21:27:19

Below is generated by plot.py at 2017-12-01 01:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.38 Mbit/s

95th percentile per-packet one-way delay: 87.587 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 159.58 Mbit/s

95th percentile per-packet one-way delay: 87.259 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 152.43 Mbit/s

95th percentile per-packet one-way delay: 88.012 ms

Loss rate: 0.84%

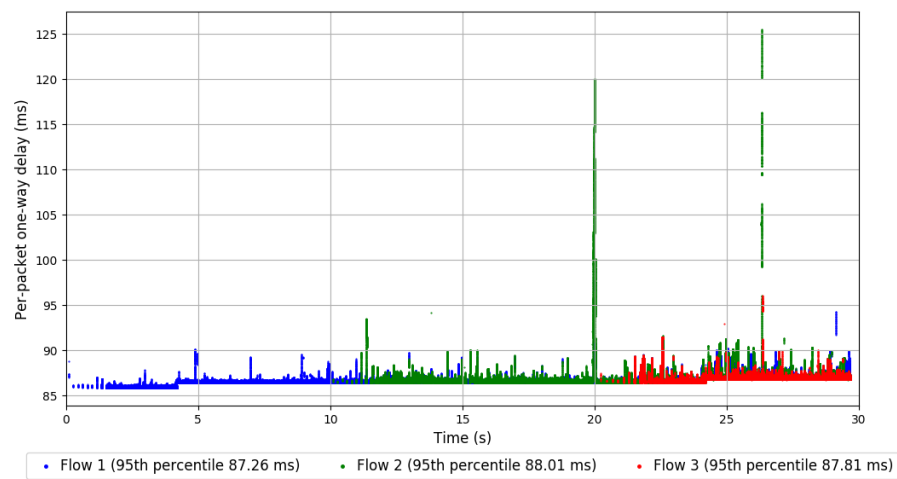
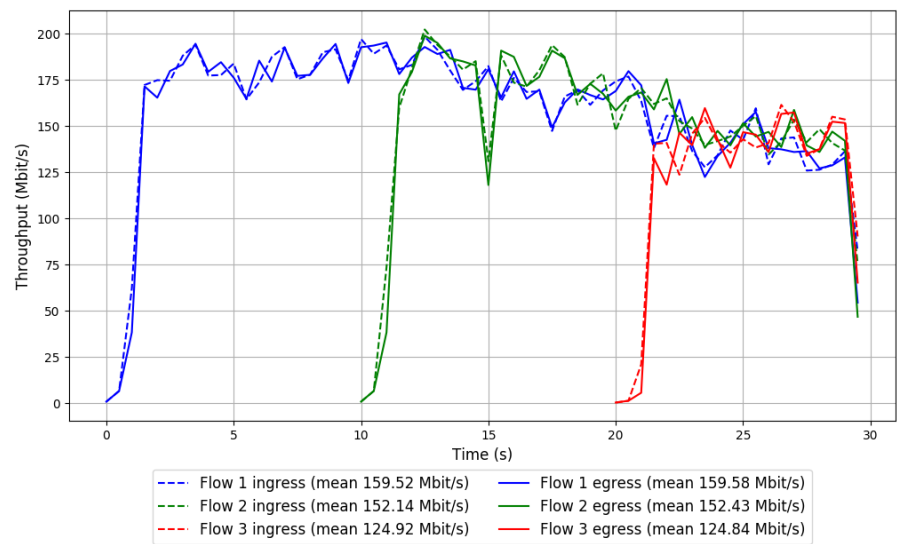
-- Flow 3:

Average throughput: 124.84 Mbit/s

95th percentile per-packet one-way delay: 87.810 ms

Loss rate: 2.19%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 21:40:08

End at: 2017-11-30 21:40:38

Below is generated by plot.py at 2017-12-01 01:23:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.16 Mbit/s

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

Loss rate: 0.99%

-- Flow 1:

Average throughput: 163.12 Mbit/s

95th percentile per-packet one-way delay: 87.219 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 150.47 Mbit/s

95th percentile per-packet one-way delay: 87.633 ms

Loss rate: 1.02%

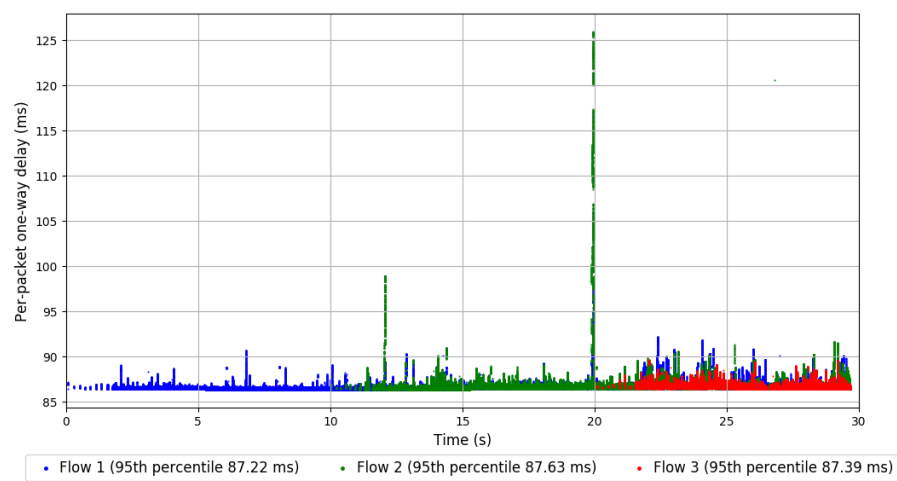
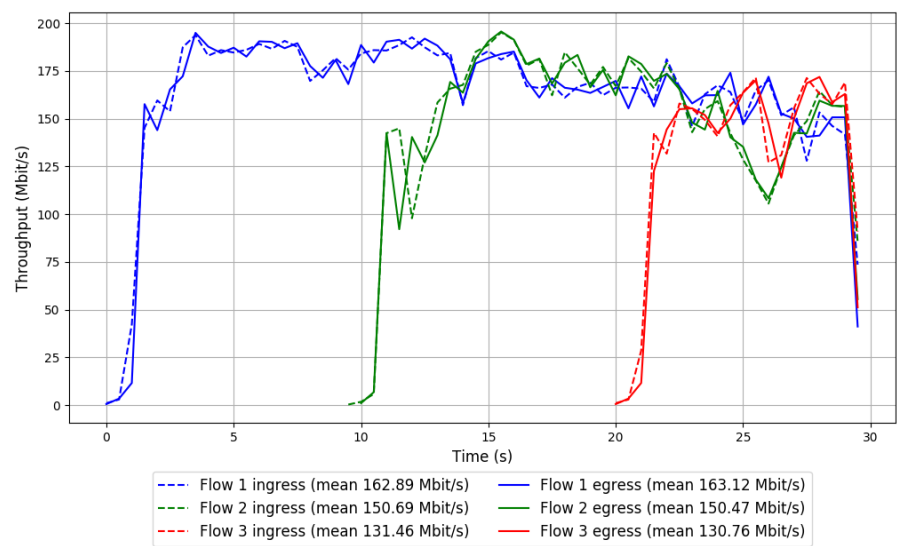
-- Flow 3:

Average throughput: 130.76 Mbit/s

95th percentile per-packet one-way delay: 87.391 ms

Loss rate: 2.59%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 21:53:38

End at: 2017-11-30 21:54:08

Below is generated by plot.py at 2017-12-01 01:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.53 Mbit/s

95th percentile per-packet one-way delay: 87.366 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 157.11 Mbit/s

95th percentile per-packet one-way delay: 87.145 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 146.28 Mbit/s

95th percentile per-packet one-way delay: 87.692 ms

Loss rate: 1.01%

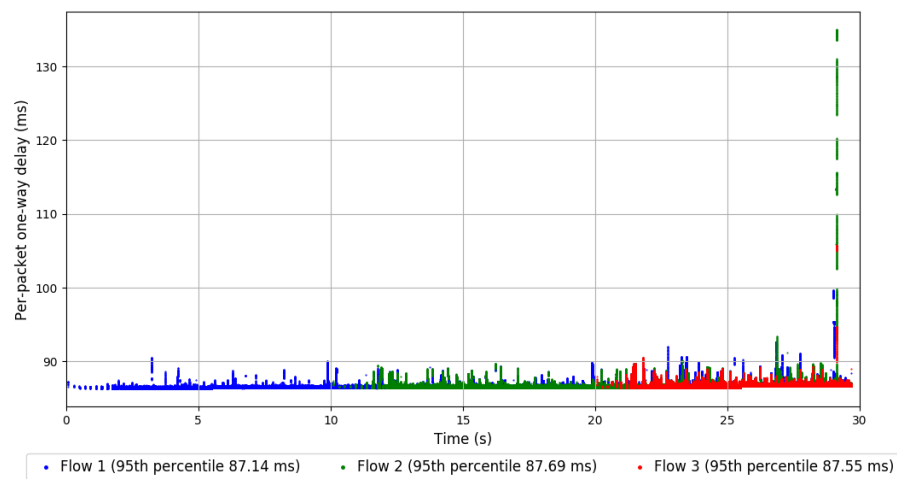
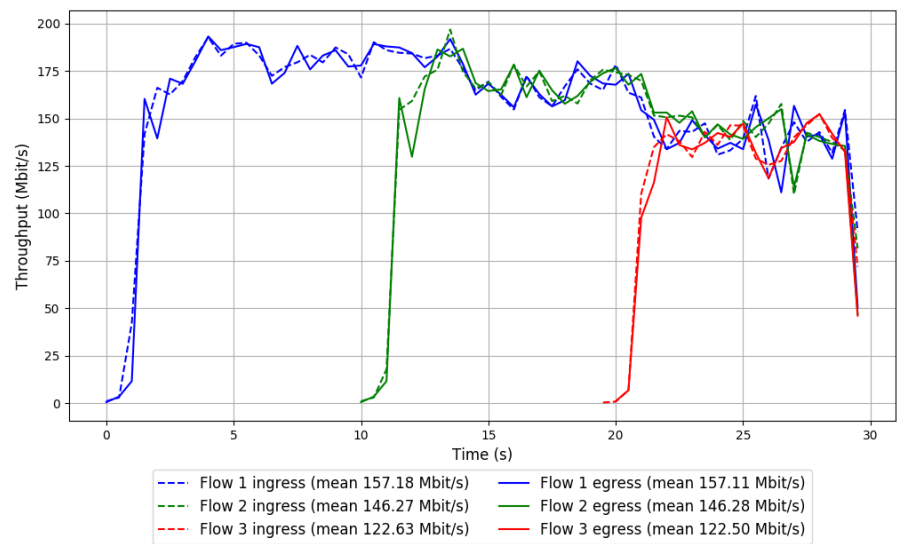
-- Flow 3:

Average throughput: 122.50 Mbit/s

95th percentile per-packet one-way delay: 87.552 ms

Loss rate: 2.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 22:07:07

End at: 2017-11-30 22:07:37

Below is generated by plot.py at 2017-12-01 01:25:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.02 Mbit/s

95th percentile per-packet one-way delay: 87.667 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 160.00 Mbit/s

95th percentile per-packet one-way delay: 87.324 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 139.12 Mbit/s

95th percentile per-packet one-way delay: 88.028 ms

Loss rate: 0.98%

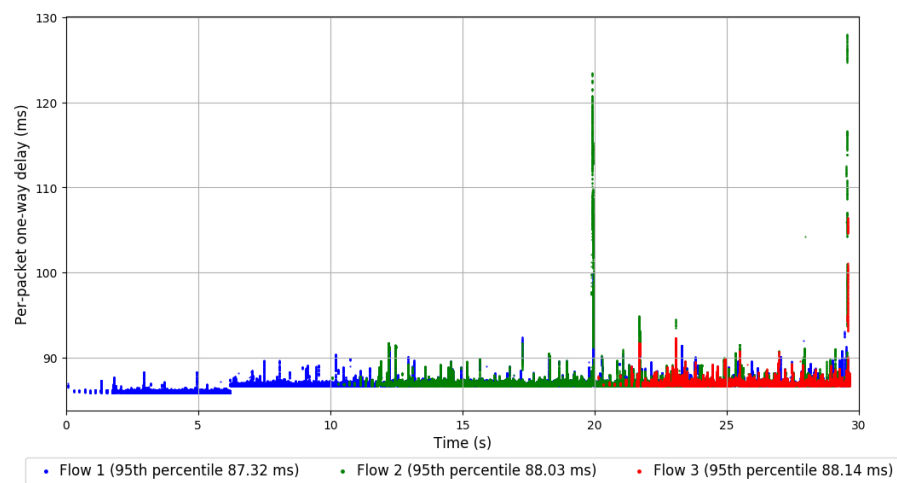
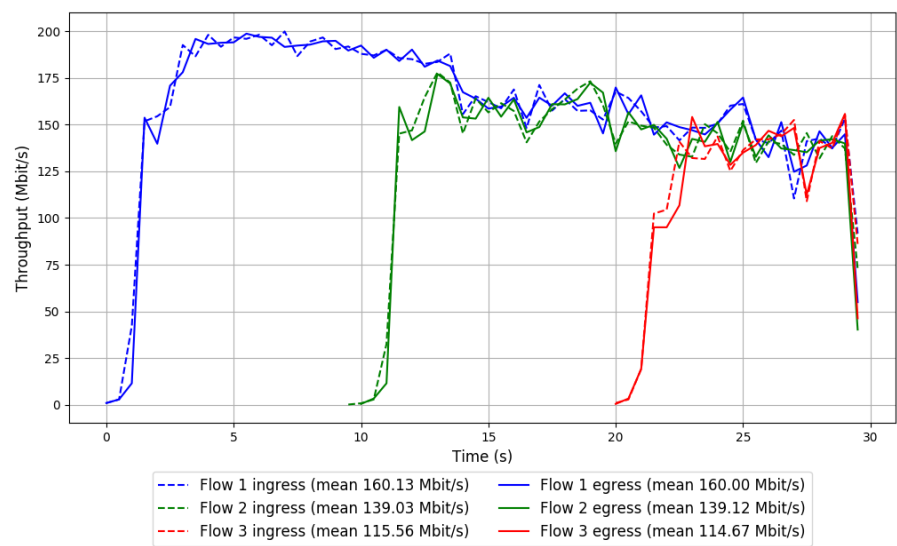
-- Flow 3:

Average throughput: 114.67 Mbit/s

95th percentile per-packet one-way delay: 88.144 ms

Loss rate: 2.87%

Run 10: Report of Indigo — Data Link

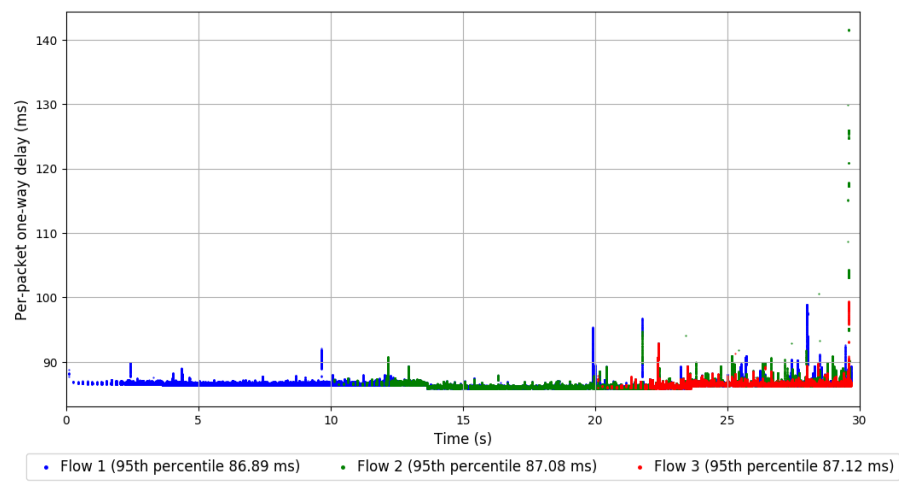
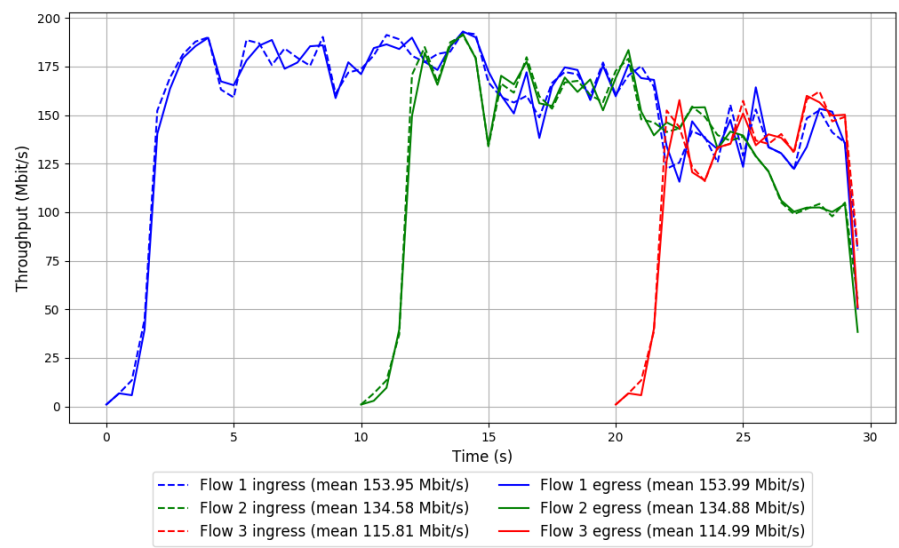


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 20:10:20
End at: 2017-11-30 20:10:50

# Below is generated by plot.py at 2017-12-01 01:25:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 280.39 Mbit/s
95th percentile per-packet one-way delay: 86.964 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 153.99 Mbit/s
95th percentile per-packet one-way delay: 86.885 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 134.88 Mbit/s
95th percentile per-packet one-way delay: 87.083 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 114.99 Mbit/s
95th percentile per-packet one-way delay: 87.116 ms
Loss rate: 2.47%
```

Run 1: Report of Indigo-calib — Data Link

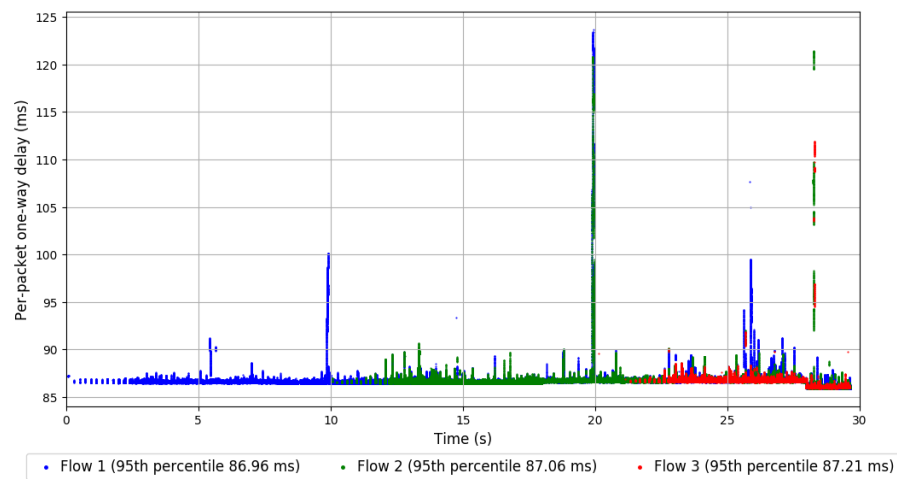
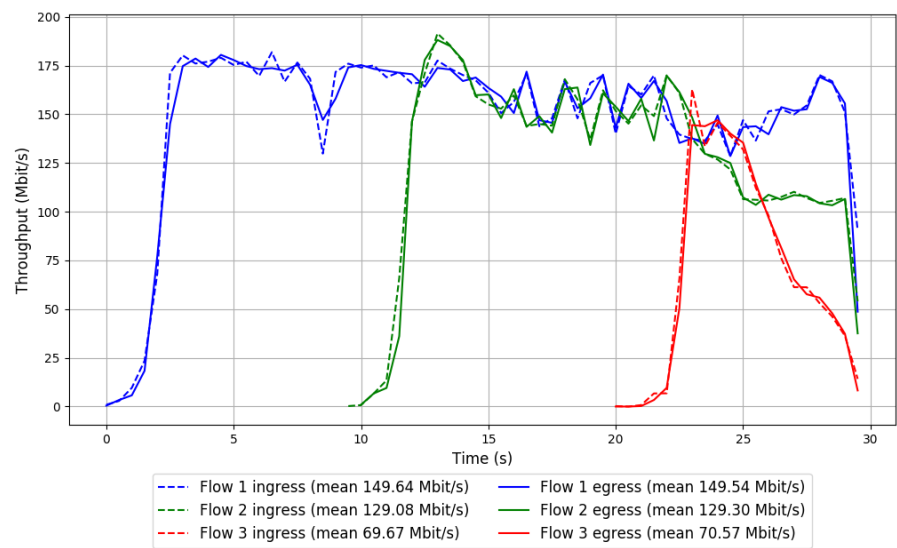


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 20:23:25
End at: 2017-11-30 20:23:55

# Below is generated by plot.py at 2017-12-01 01:26:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.80 Mbit/s
95th percentile per-packet one-way delay: 87.027 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 149.54 Mbit/s
95th percentile per-packet one-way delay: 86.962 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 129.30 Mbit/s
95th percentile per-packet one-way delay: 87.064 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 70.57 Mbit/s
95th percentile per-packet one-way delay: 87.213 ms
Loss rate: 0.91%
```

Run 2: Report of Indigo-calib — Data Link

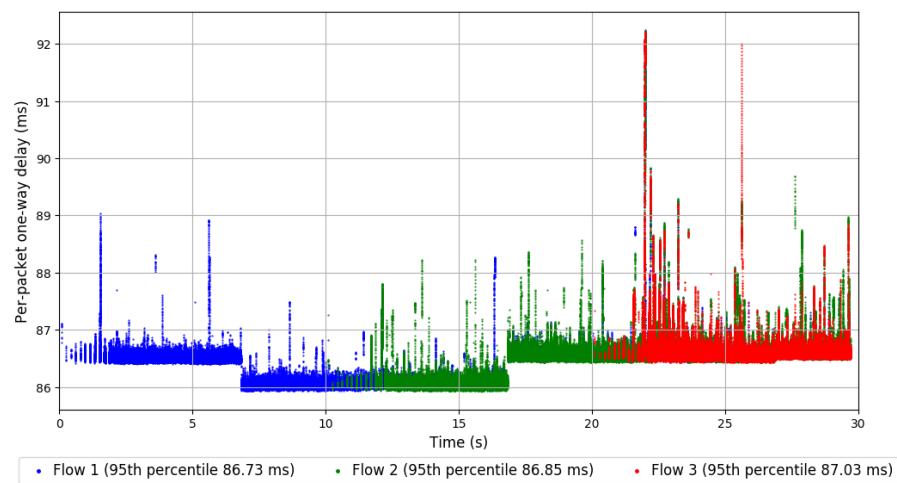
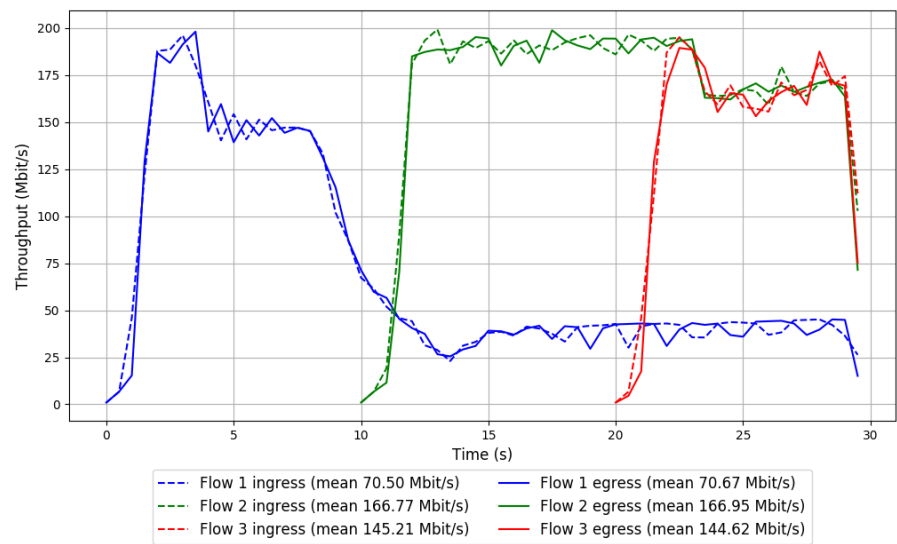


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 20:36:46
End at: 2017-11-30 20:37:16

# Below is generated by plot.py at 2017-12-01 01:26:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 227.92 Mbit/s
95th percentile per-packet one-way delay: 86.844 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 70.67 Mbit/s
95th percentile per-packet one-way delay: 86.732 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 166.95 Mbit/s
95th percentile per-packet one-way delay: 86.848 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 144.62 Mbit/s
95th percentile per-packet one-way delay: 87.035 ms
Loss rate: 2.34%
```


Run 3: Report of Indigo-calib — Data Link

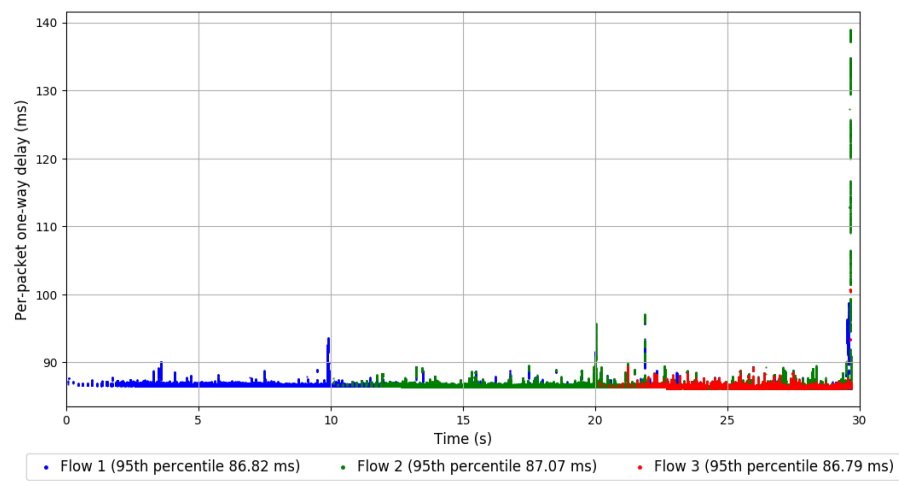
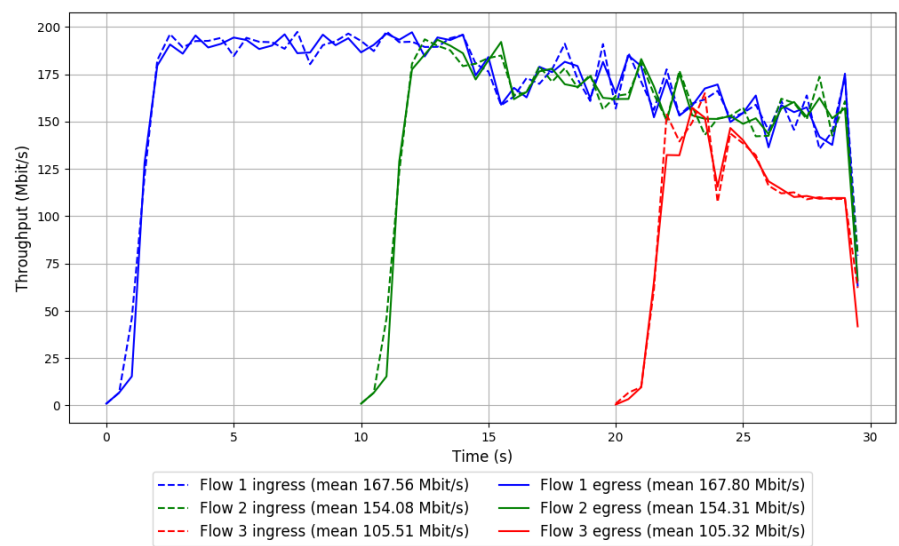


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 20:50:10
End at: 2017-11-30 20:50:40

# Below is generated by plot.py at 2017-12-01 01:27:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.87 Mbit/s
95th percentile per-packet one-way delay: 86.879 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 167.80 Mbit/s
95th percentile per-packet one-way delay: 86.821 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 154.31 Mbit/s
95th percentile per-packet one-way delay: 87.068 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 105.32 Mbit/s
95th percentile per-packet one-way delay: 86.788 ms
Loss rate: 1.90%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 21:03:24

End at: 2017-11-30 21:03:54

Below is generated by plot.py at 2017-12-01 01:27:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.27 Mbit/s

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

Loss rate: 0.80%

-- Flow 1:

Average throughput: 163.94 Mbit/s

95th percentile per-packet one-way delay: 87.097 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 150.03 Mbit/s

95th percentile per-packet one-way delay: 87.258 ms

Loss rate: 0.99%

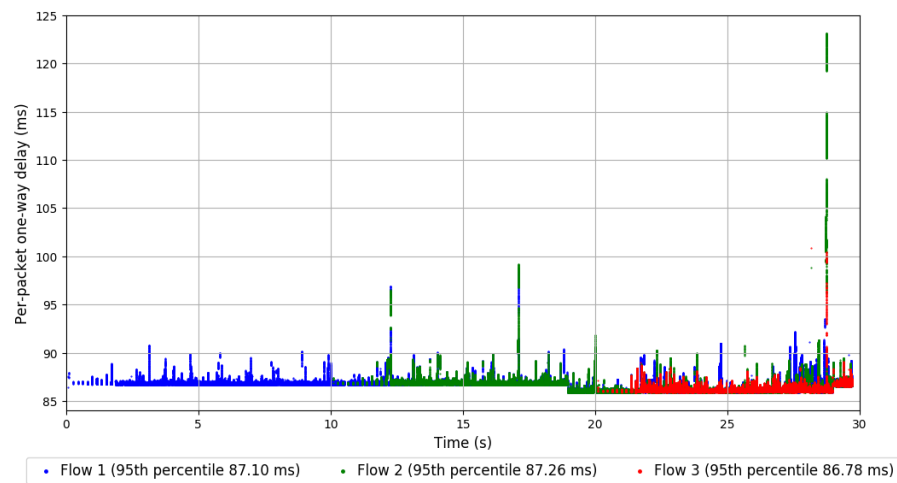
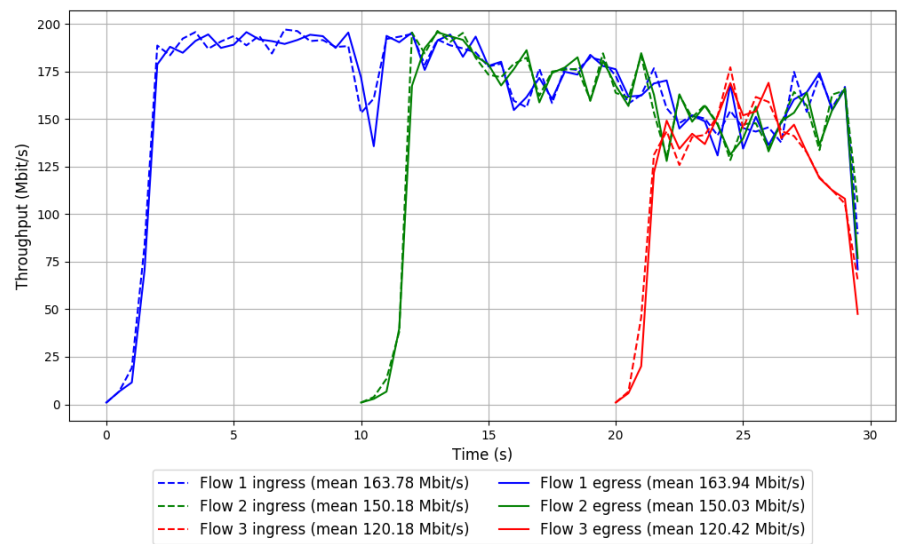
-- Flow 3:

Average throughput: 120.42 Mbit/s

95th percentile per-packet one-way delay: 86.785 ms

Loss rate: 1.60%

Run 5: Report of Indigo-calib — Data Link

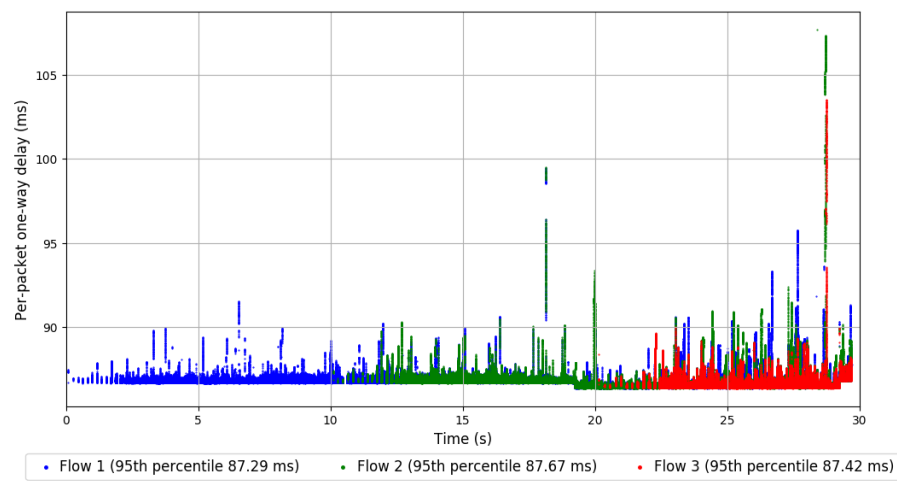
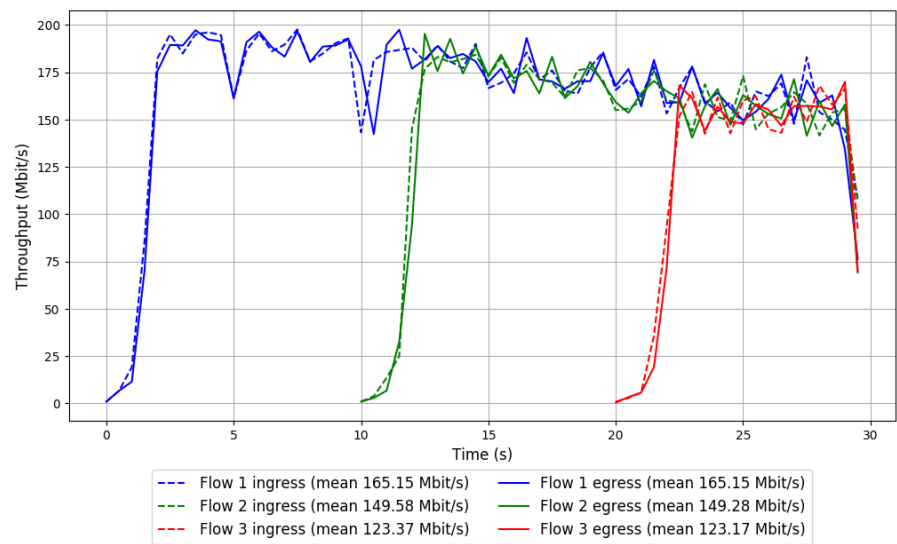


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 21:16:54
End at: 2017-11-30 21:17:24

# Below is generated by plot.py at 2017-12-01 01:27:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.66 Mbit/s
95th percentile per-packet one-way delay: 87.427 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 165.15 Mbit/s
95th percentile per-packet one-way delay: 87.290 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 149.28 Mbit/s
95th percentile per-packet one-way delay: 87.665 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 123.17 Mbit/s
95th percentile per-packet one-way delay: 87.425 ms
Loss rate: 2.22%
```

Run 6: Report of Indigo-calib — Data Link

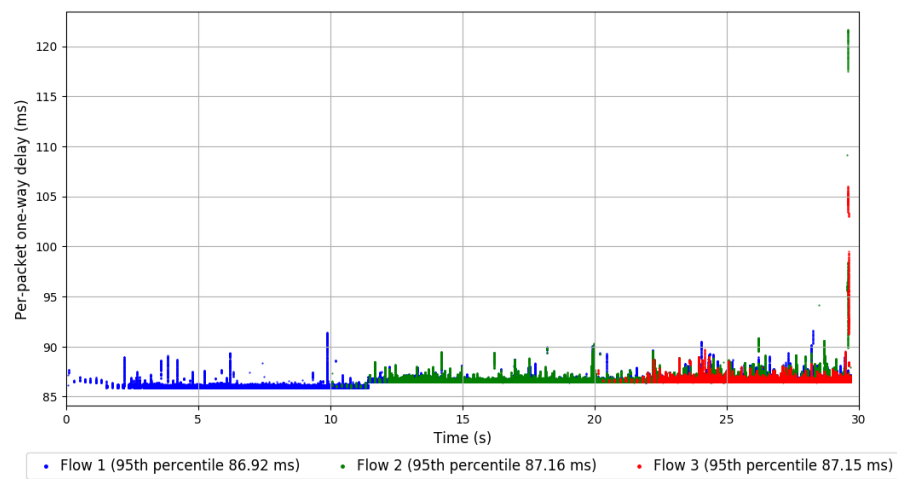
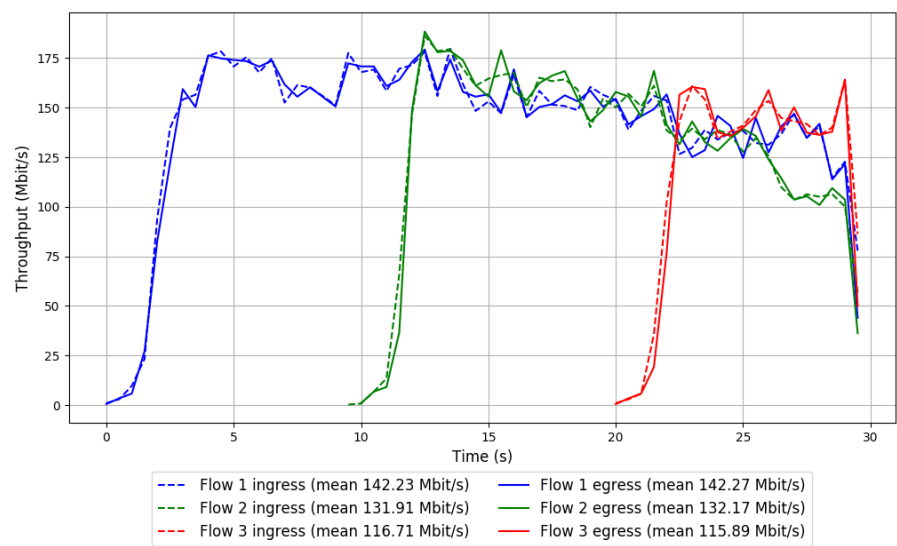


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 21:30:32
End at: 2017-11-30 21:31:02

# Below is generated by plot.py at 2017-12-01 01:28:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.25 Mbit/s
95th percentile per-packet one-way delay: 87.057 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 142.27 Mbit/s
95th percentile per-packet one-way delay: 86.925 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 132.17 Mbit/s
95th percentile per-packet one-way delay: 87.157 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 115.89 Mbit/s
95th percentile per-packet one-way delay: 87.154 ms
Loss rate: 2.79%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 21:43:54

End at: 2017-11-30 21:44:24

Below is generated by plot.py at 2017-12-01 01:28:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.71 Mbit/s

95th percentile per-packet one-way delay: 88.206 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 166.81 Mbit/s

95th percentile per-packet one-way delay: 87.573 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 154.56 Mbit/s

95th percentile per-packet one-way delay: 88.492 ms

Loss rate: 1.02%

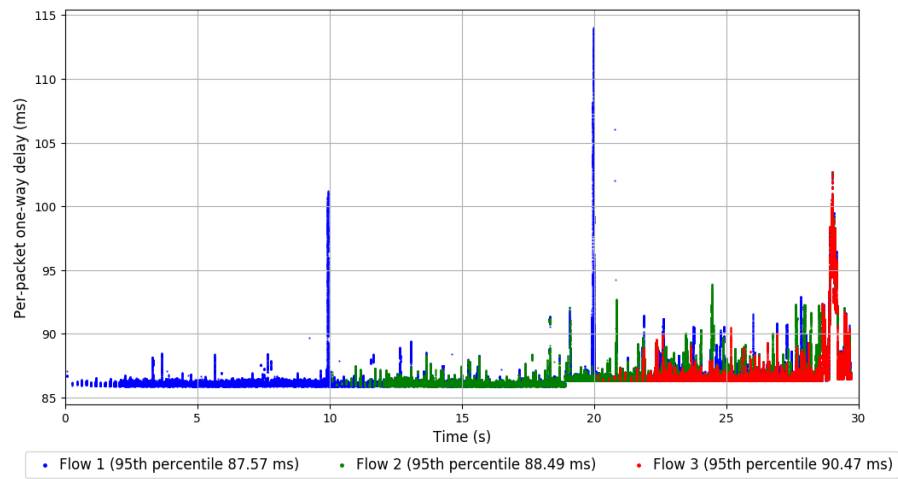
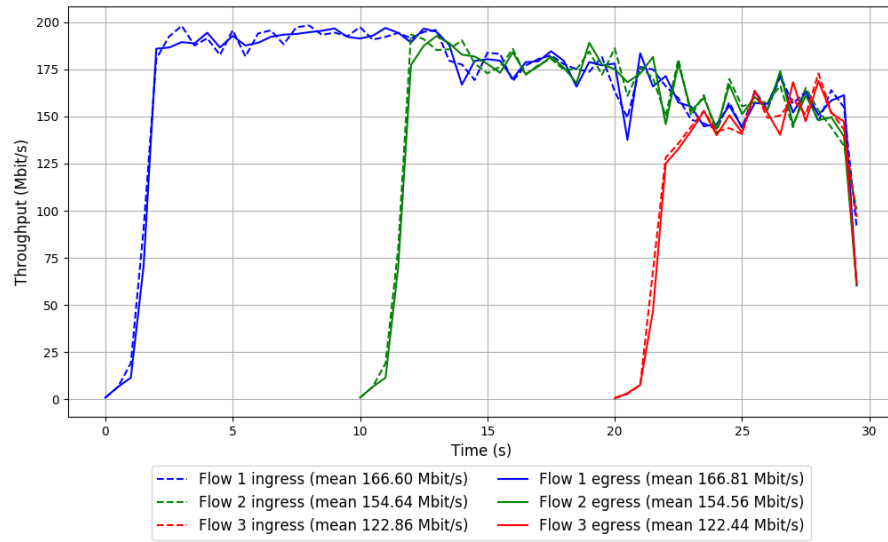
-- Flow 3:

Average throughput: 122.44 Mbit/s

95th percentile per-packet one-way delay: 90.465 ms

Loss rate: 2.59%

Run 8: Report of Indigo-calib — Data Link

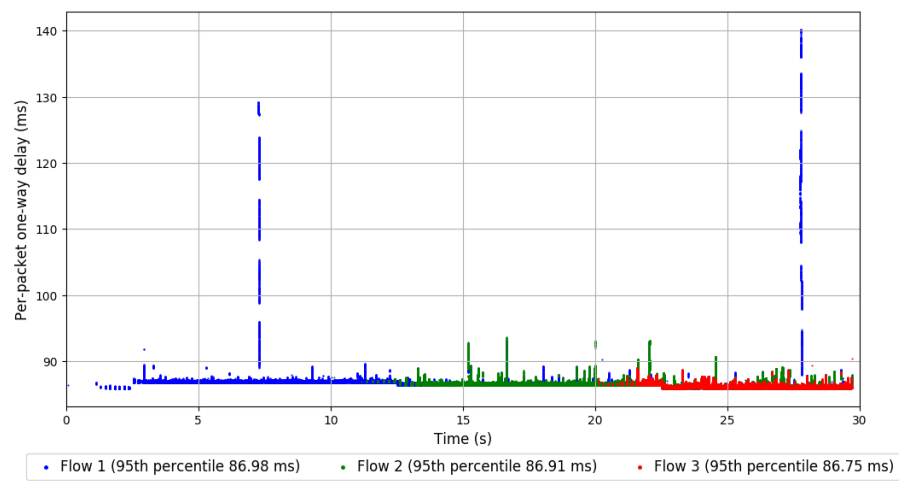
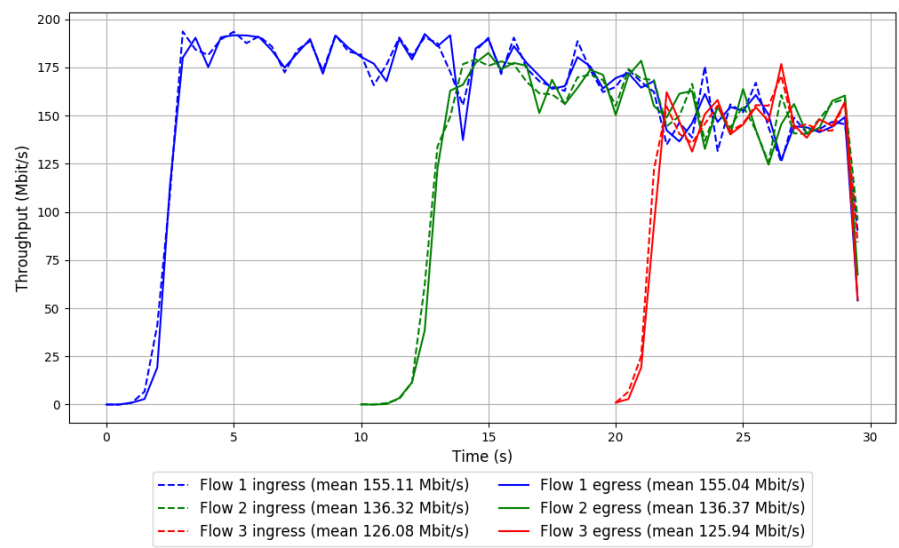


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 21:57:21
End at: 2017-11-30 21:57:51

# Below is generated by plot.py at 2017-12-01 01:28:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.81 Mbit/s
95th percentile per-packet one-way delay: 86.970 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 155.04 Mbit/s
95th percentile per-packet one-way delay: 86.979 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 136.37 Mbit/s
95th percentile per-packet one-way delay: 86.907 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 125.94 Mbit/s
95th percentile per-packet one-way delay: 86.746 ms
Loss rate: 2.17%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 22:10:49

End at: 2017-11-30 22:11:19

Below is generated by plot.py at 2017-12-01 01:28:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.21 Mbit/s

95th percentile per-packet one-way delay: 88.119 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 152.59 Mbit/s

95th percentile per-packet one-way delay: 88.199 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 143.46 Mbit/s

95th percentile per-packet one-way delay: 88.053 ms

Loss rate: 0.97%

-- Flow 3:

Average throughput: 109.40 Mbit/s

95th percentile per-packet one-way delay: 88.091 ms

Loss rate: 1.82%

Run 10: Report of Indigo-calib — Data Link

