

Pantheon Report

Generated at 2017-11-16 14:58:53 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 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).

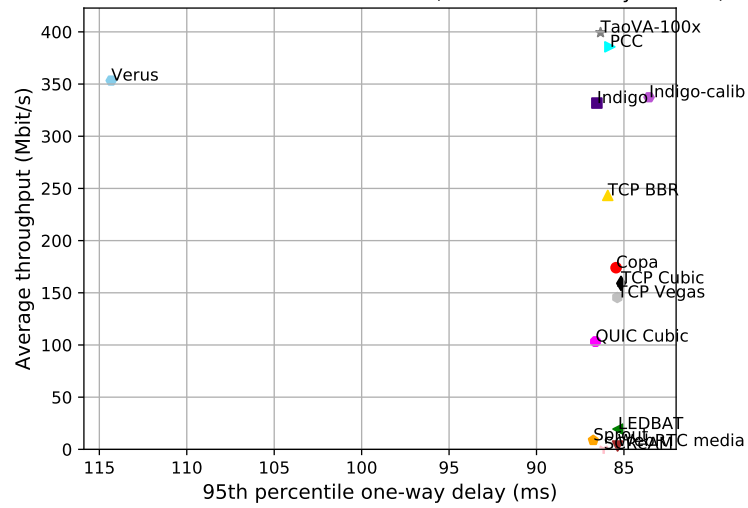
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

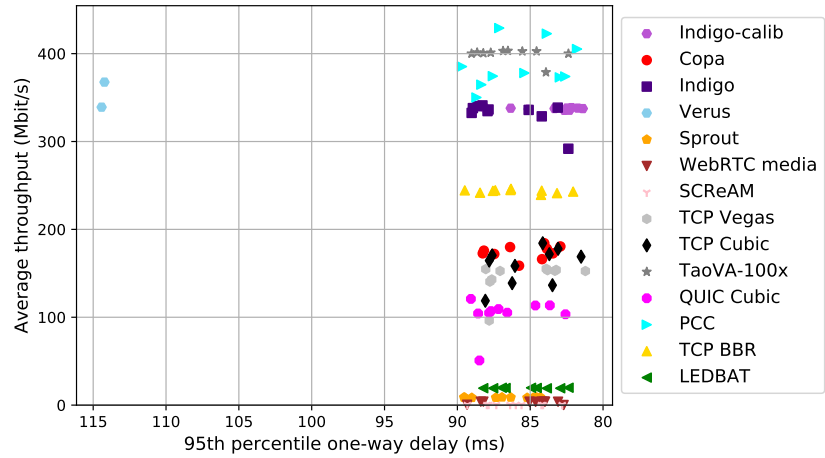
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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 @ 03455460fd1a8ffbdad86fabb936fdca204b80db
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 Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



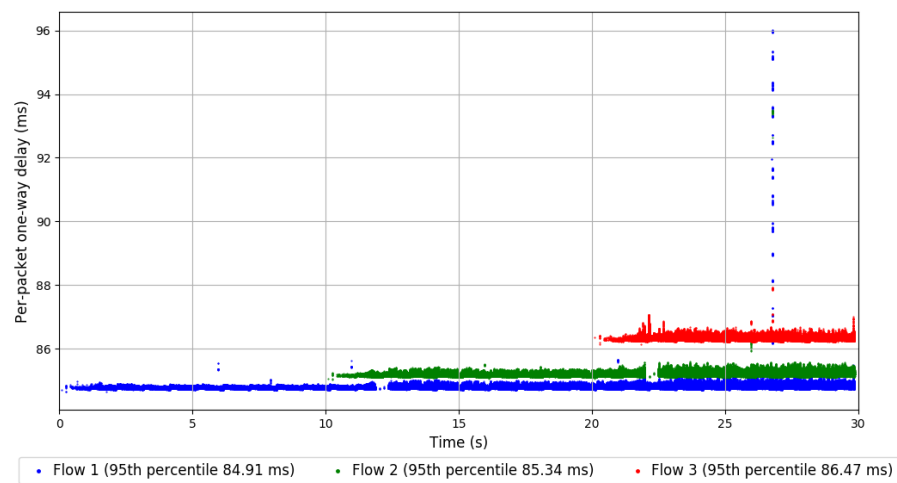
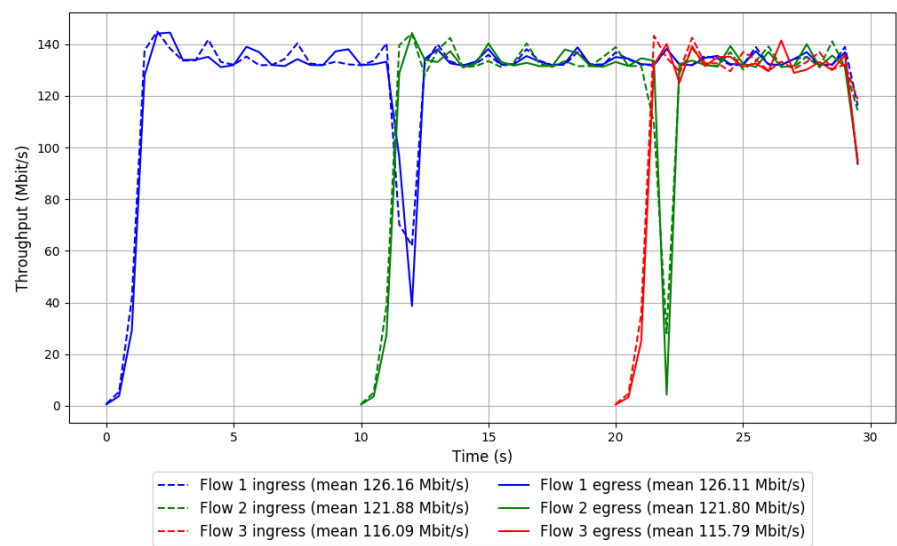
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	124.28	122.38	115.48	84.50	84.57	85.73	0.61	0.92	1.99
TCP Cubic	10	83.39	79.32	70.49	84.21	84.51	85.19	0.57	0.99	1.92
LEDBAT	9	12.61	8.37	4.00	84.20	84.31	84.52	1.13	1.69	3.47
PCC	10	236.27	164.81	122.83	85.77	84.03	84.86	10.10	16.77	16.80
QUIC Cubic	10	59.03	52.31	29.38	85.77	85.37	85.88	0.63	1.19	2.94
SCReAM	10	0.22	0.22	0.22	85.17	85.18	85.28	0.53	1.03	1.60
WebRTC media	10	1.71	1.08	0.41	84.08	84.22	84.31	0.70	1.68	3.46
Sprout	10	4.65	4.28	3.74	85.23	86.34	85.46	0.61	1.11	2.65
TaoVA-100x	10	233.81	202.12	129.24	85.90	85.19	84.91	1.94	3.47	7.17
TCP Vegas	10	76.47	72.58	63.88	84.55	85.03	84.48	0.63	0.90	1.94
Verus	2	233.68	122.25	122.39	118.78	109.17	107.97	3.09	7.23	13.56
Copa	10	87.64	87.77	93.80	83.55	84.39	84.84	0.57	0.91	2.07
Indigo	10	173.30	167.47	147.42	85.13	85.43	85.88	2.57	3.92	9.10
Indigo-calib	10	180.63	167.16	143.41	82.86	83.03	82.98	3.00	4.76	10.09

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 07:35:47
End at: 2017-11-16 07:36:17
Local clock offset: -0.477 ms
Remote clock offset: -6.174 ms

Below is generated by plot.py at 2017-11-16 14:06:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 244.79 Mbit/s
95th percentile per-packet one-way delay: 86.354 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 126.11 Mbit/s
95th percentile per-packet one-way delay: 84.910 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 121.80 Mbit/s
95th percentile per-packet one-way delay: 85.337 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 115.79 Mbit/s
95th percentile per-packet one-way delay: 86.470 ms
Loss rate: 2.03%

Run 1: Report of TCP BBR — Data Link

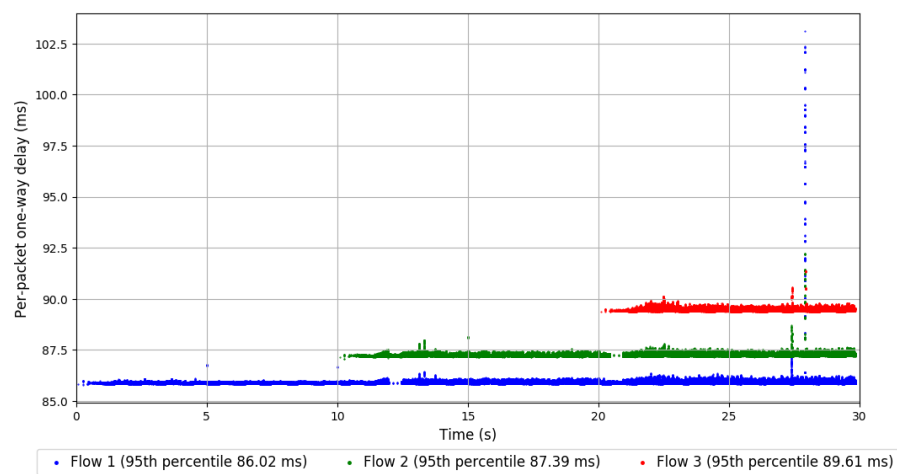
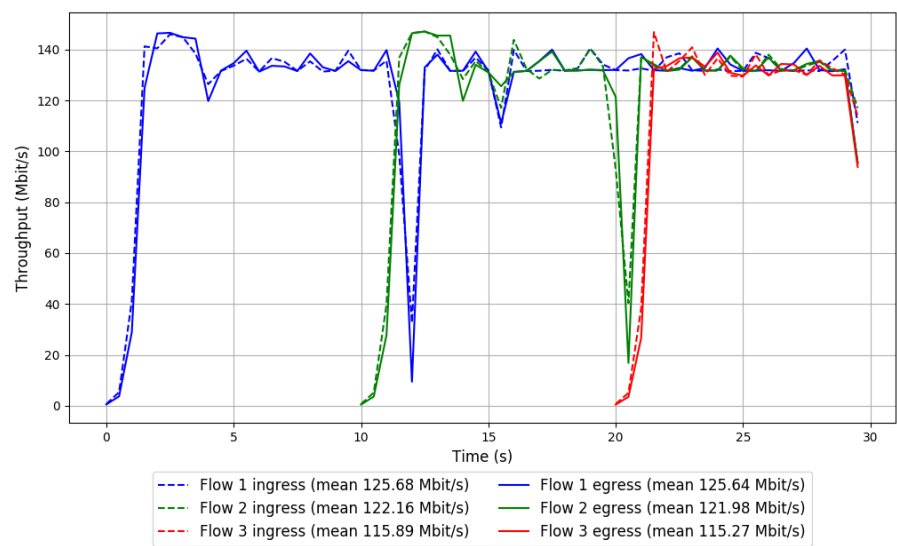


Run 2: Statistics of TCP BBR

Start at: 2017-11-16 07:55:49
End at: 2017-11-16 07:56:19
Local clock offset: -0.403 ms
Remote clock offset: -6.371 ms

Below is generated by plot.py at 2017-11-16 14:06:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 244.42 Mbit/s
95th percentile per-packet one-way delay: 89.492 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 125.64 Mbit/s
95th percentile per-packet one-way delay: 86.018 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 121.98 Mbit/s
95th percentile per-packet one-way delay: 87.385 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 115.27 Mbit/s
95th percentile per-packet one-way delay: 89.611 ms
Loss rate: 2.02%

Run 2: Report of TCP BBR — Data Link

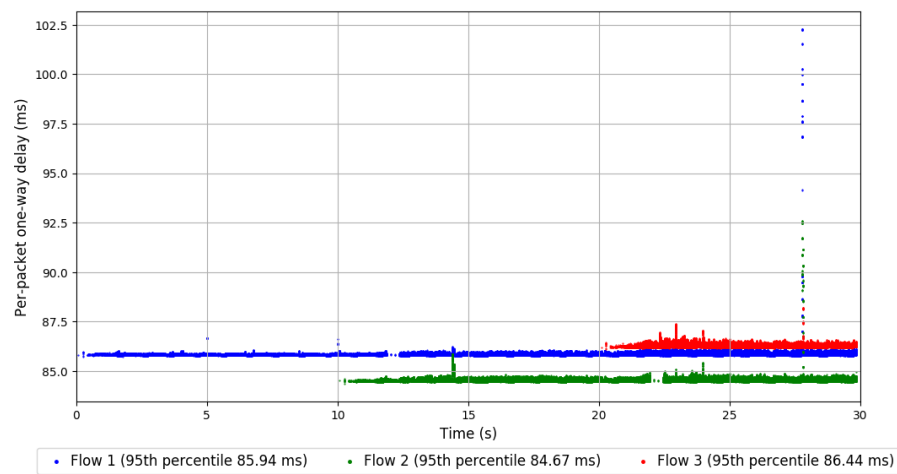
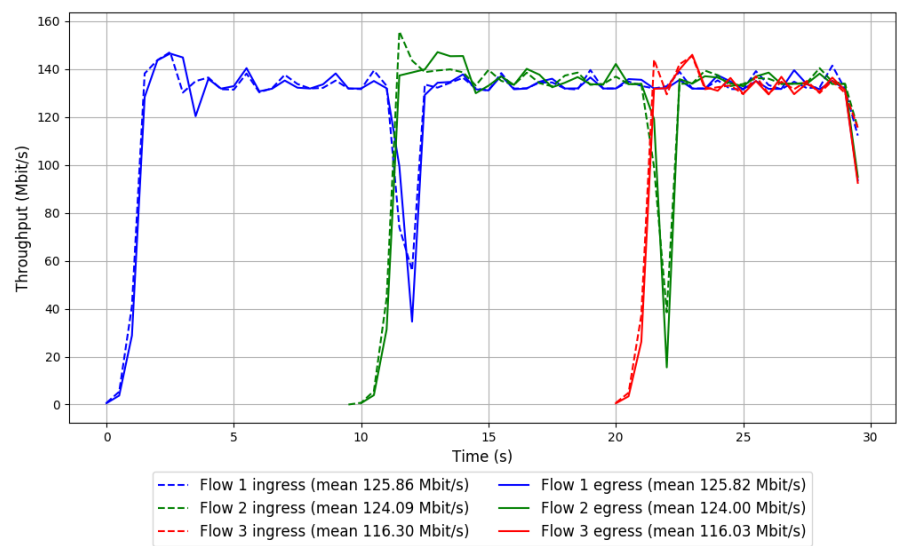


Run 3: Statistics of TCP BBR

Start at: 2017-11-16 08:15:53
End at: 2017-11-16 08:16:23
Local clock offset: -0.392 ms
Remote clock offset: -4.274 ms

Below is generated by plot.py at 2017-11-16 14:06:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 246.20 Mbit/s
95th percentile per-packet one-way delay: 86.321 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 125.82 Mbit/s
95th percentile per-packet one-way delay: 85.944 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 124.00 Mbit/s
95th percentile per-packet one-way delay: 84.665 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 116.03 Mbit/s
95th percentile per-packet one-way delay: 86.437 ms
Loss rate: 1.93%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 08:35:58

End at: 2017-11-16 08:36:28

Local clock offset: -0.244 ms

Remote clock offset: 0.708 ms

Below is generated by plot.py at 2017-11-16 14:06:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.01 Mbit/s

95th percentile per-packet one-way delay: 82.052 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 123.32 Mbit/s

95th percentile per-packet one-way delay: 82.092 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 123.12 Mbit/s

95th percentile per-packet one-way delay: 80.542 ms

Loss rate: 0.91%

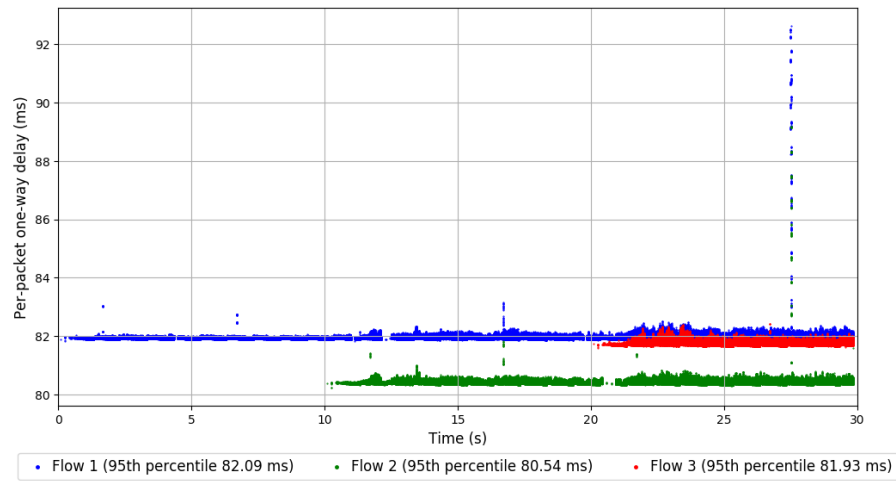
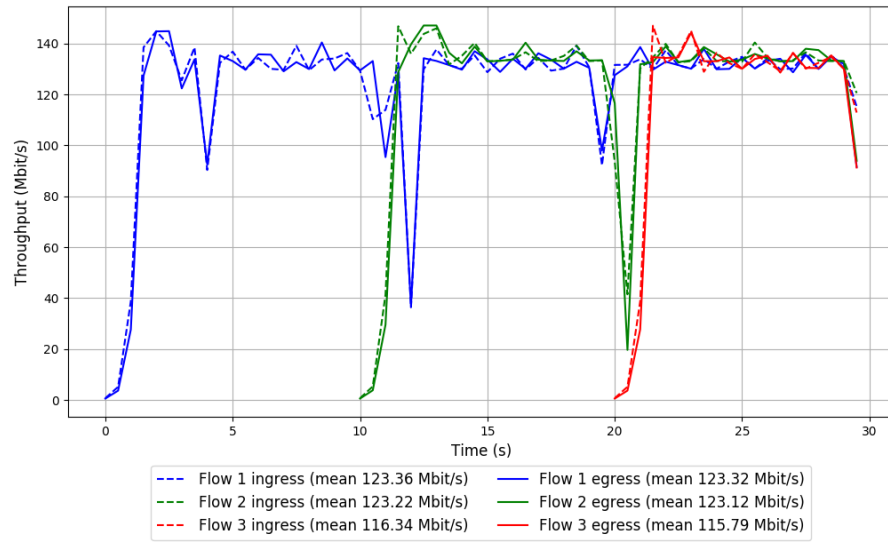
-- Flow 3:

Average throughput: 115.79 Mbit/s

95th percentile per-packet one-way delay: 81.933 ms

Loss rate: 1.92%

Run 4: Report of TCP BBR — Data Link

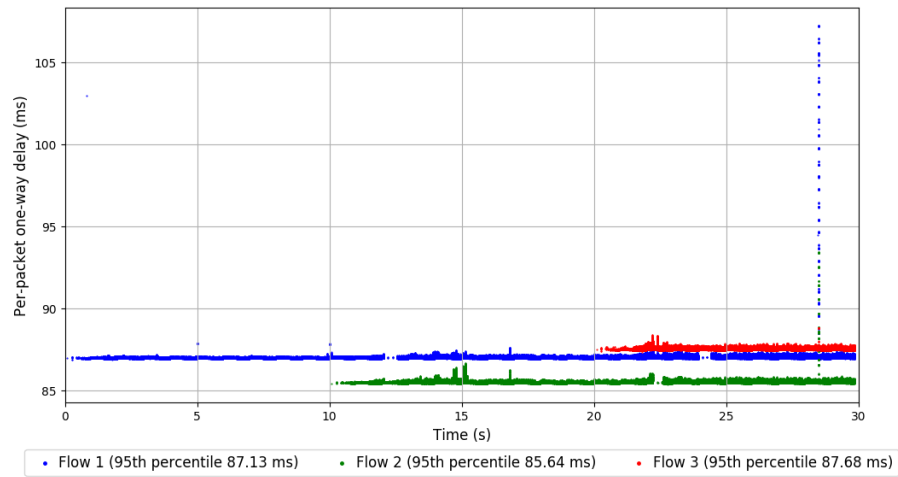
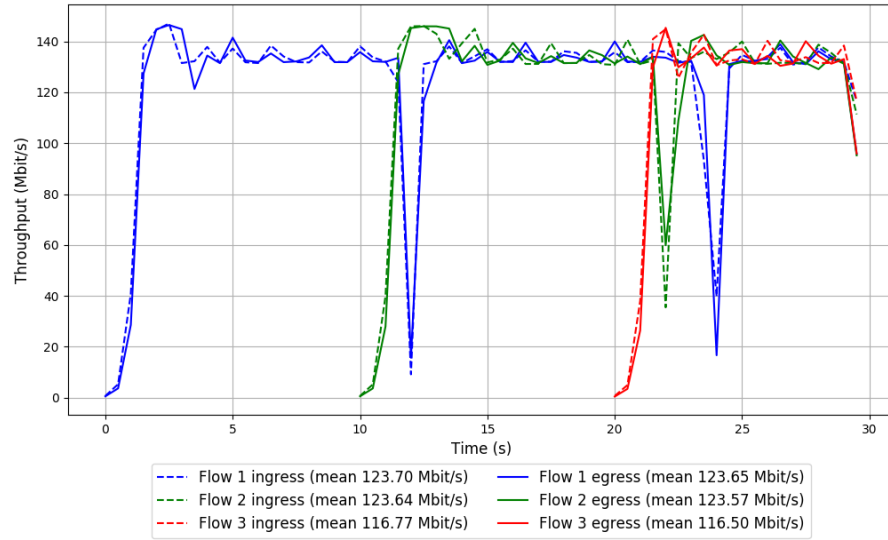


Run 5: Statistics of TCP BBR

Start at: 2017-11-16 08:56:01
End at: 2017-11-16 08:56:31
Local clock offset: -0.167 ms
Remote clock offset: -4.825 ms

Below is generated by plot.py at 2017-11-16 14:06:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.86 Mbit/s
95th percentile per-packet one-way delay: 87.564 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 123.65 Mbit/s
95th percentile per-packet one-way delay: 87.132 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 123.57 Mbit/s
95th percentile per-packet one-way delay: 85.635 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 116.50 Mbit/s
95th percentile per-packet one-way delay: 87.681 ms
Loss rate: 1.95%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 09:16:07

End at: 2017-11-16 09:16:37

Local clock offset: -0.136 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2017-11-16 14:06:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.30 Mbit/s

95th percentile per-packet one-way delay: 84.260 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 122.75 Mbit/s

95th percentile per-packet one-way delay: 81.007 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 119.49 Mbit/s

95th percentile per-packet one-way delay: 84.130 ms

Loss rate: 0.93%

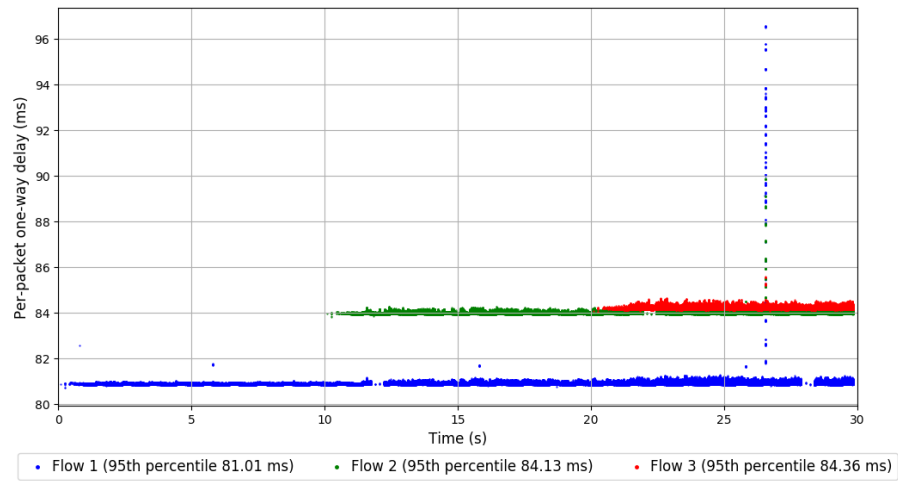
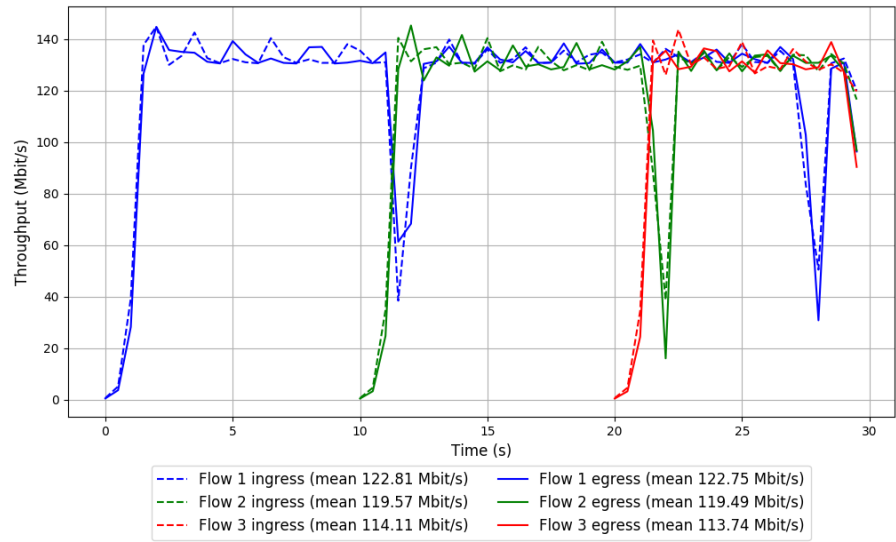
-- Flow 3:

Average throughput: 113.74 Mbit/s

95th percentile per-packet one-way delay: 84.365 ms

Loss rate: 2.03%

Run 6: Report of TCP BBR — Data Link

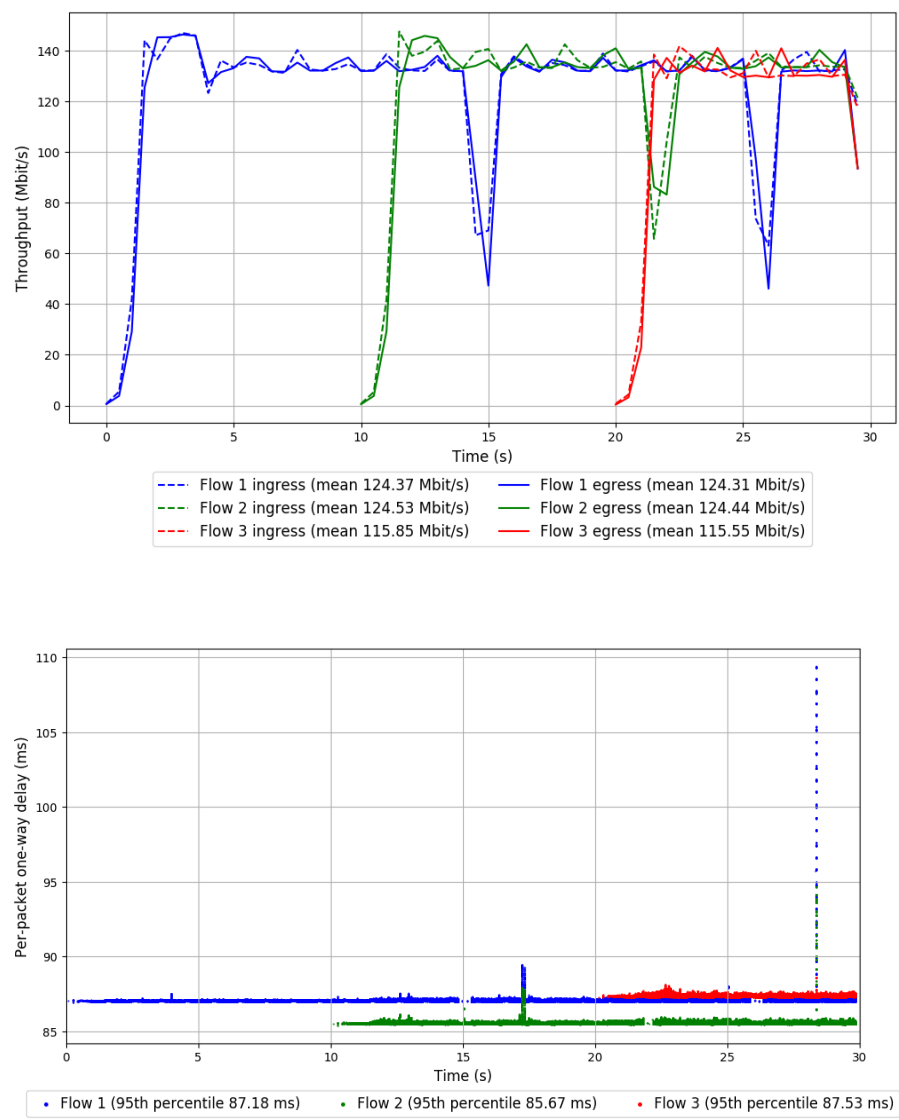


Run 7: Statistics of TCP BBR

Start at: 2017-11-16 09:36:15
End at: 2017-11-16 09:36:45
Local clock offset: -0.076 ms
Remote clock offset: -4.333 ms

Below is generated by plot.py at 2017-11-16 14:06:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 244.55 Mbit/s
95th percentile per-packet one-way delay: 87.398 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 124.31 Mbit/s
95th percentile per-packet one-way delay: 87.184 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 124.44 Mbit/s
95th percentile per-packet one-way delay: 85.673 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 115.55 Mbit/s
95th percentile per-packet one-way delay: 87.528 ms
Loss rate: 2.04%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 09:56:26

End at: 2017-11-16 09:56:56

Local clock offset: -0.079 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2017-11-16 14:06:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.06 Mbit/s

95th percentile per-packet one-way delay: 84.212 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 124.67 Mbit/s

95th percentile per-packet one-way delay: 80.788 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 123.61 Mbit/s

95th percentile per-packet one-way delay: 80.608 ms

Loss rate: 0.90%

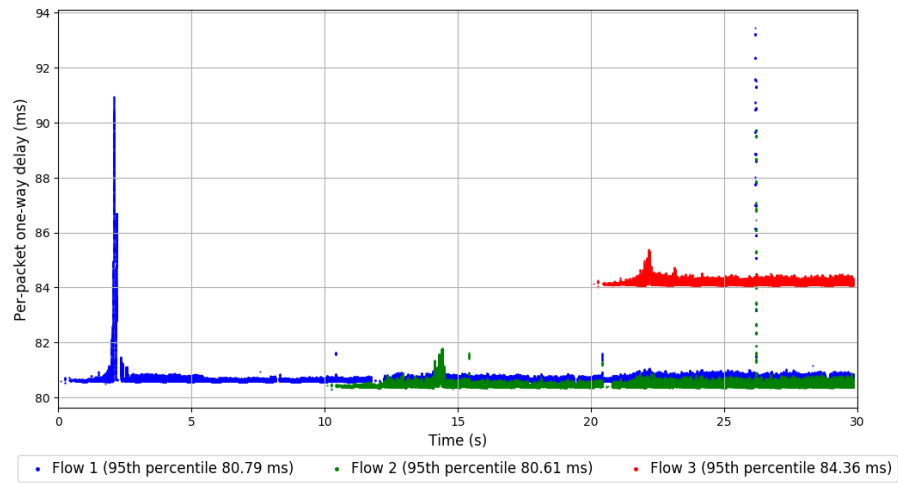
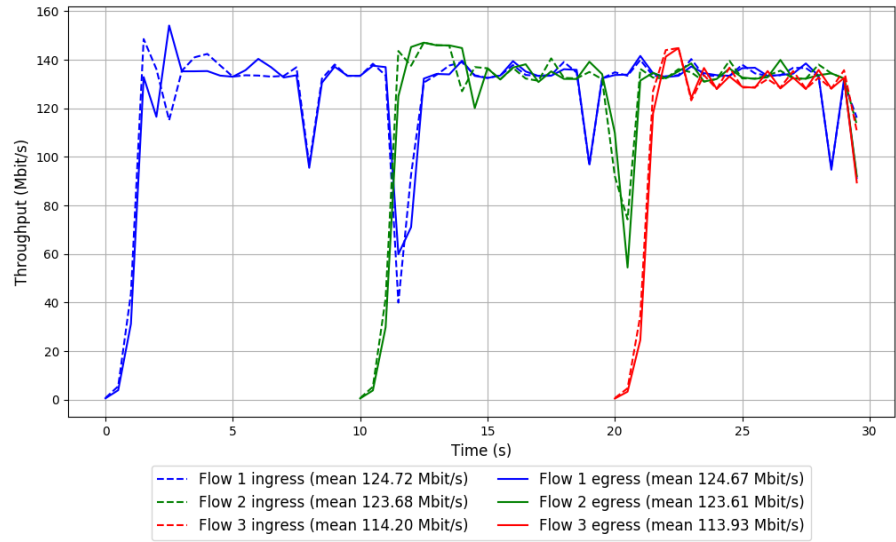
-- Flow 3:

Average throughput: 113.93 Mbit/s

95th percentile per-packet one-way delay: 84.357 ms

Loss rate: 1.96%

Run 8: Report of TCP BBR — Data Link

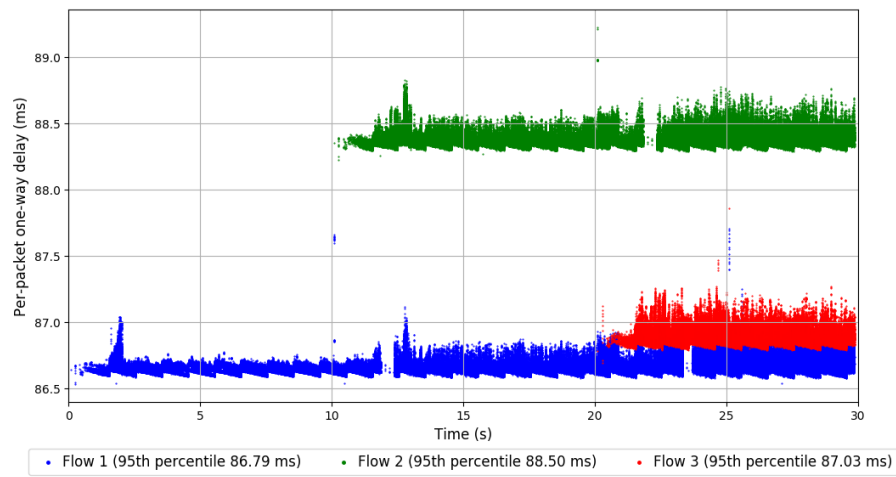
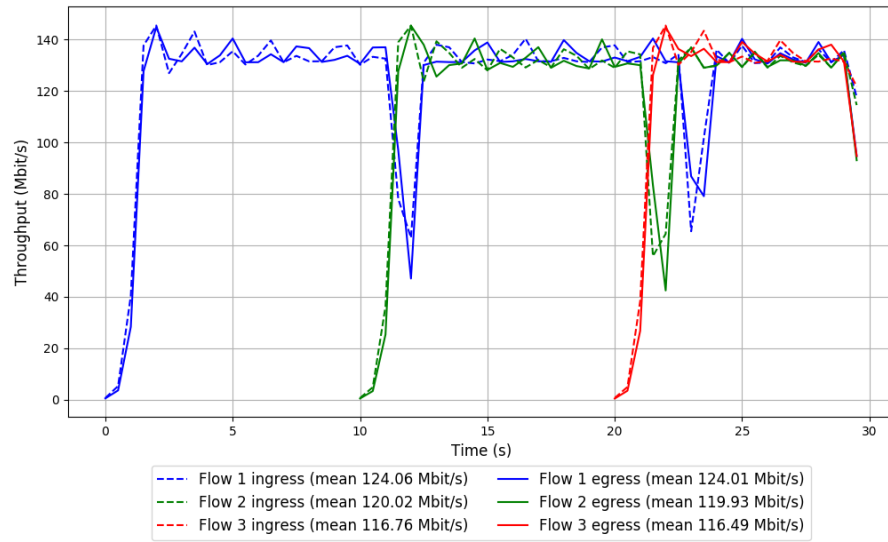


Run 9: Statistics of TCP BBR

Start at: 2017-11-16 10:16:28
End at: 2017-11-16 10:16:58
Local clock offset: 0.017 ms
Remote clock offset: -4.068 ms

Below is generated by plot.py at 2017-11-16 14:10:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.76 Mbit/s
95th percentile per-packet one-way delay: 88.443 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 124.01 Mbit/s
95th percentile per-packet one-way delay: 86.786 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 119.93 Mbit/s
95th percentile per-packet one-way delay: 88.502 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 116.49 Mbit/s
95th percentile per-packet one-way delay: 87.027 ms
Loss rate: 1.94%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 10:36:39

End at: 2017-11-16 10:37:09

Local clock offset: 0.053 ms

Remote clock offset: 0.711 ms

Below is generated by plot.py at 2017-11-16 14:10:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.26 Mbit/s

95th percentile per-packet one-way delay: 83.159 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 122.57 Mbit/s

95th percentile per-packet one-way delay: 83.163 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 121.89 Mbit/s

95th percentile per-packet one-way delay: 83.174 ms

Loss rate: 0.96%

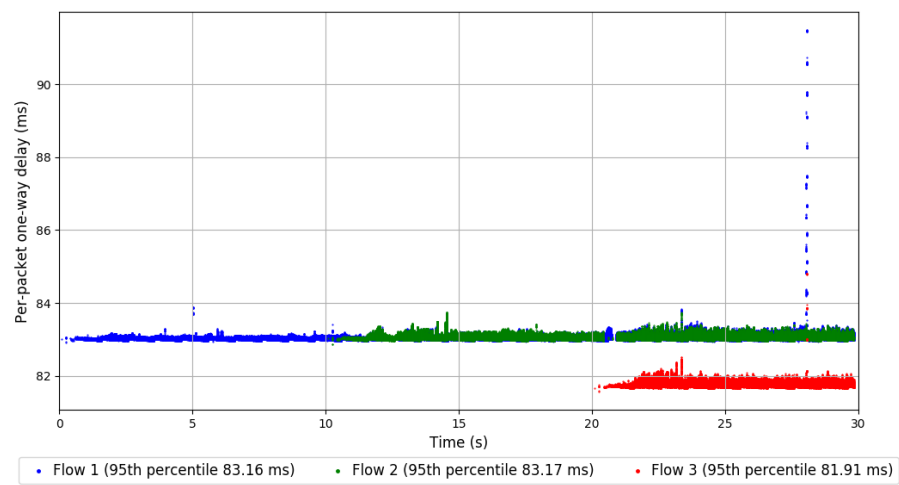
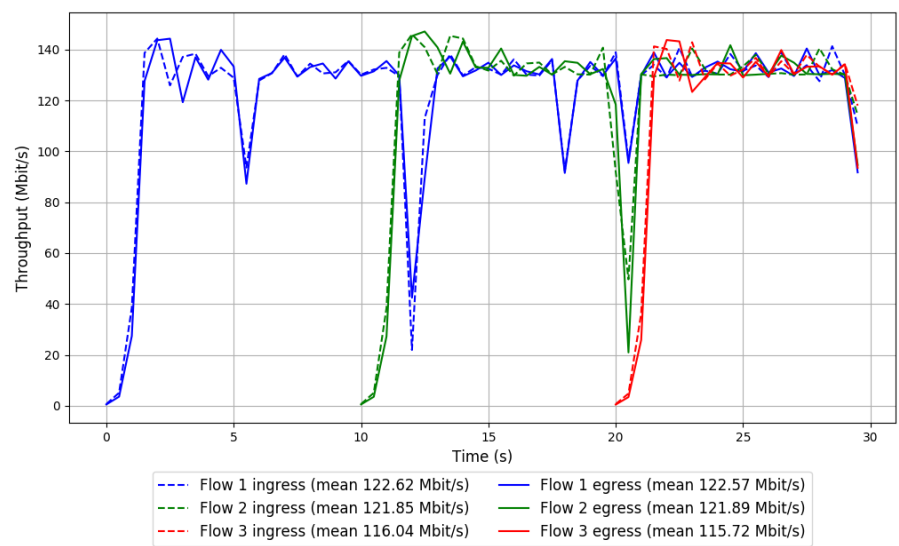
-- Flow 3:

Average throughput: 115.72 Mbit/s

95th percentile per-packet one-way delay: 81.908 ms

Loss rate: 2.08%

Run 10: Report of TCP BBR — Data Link

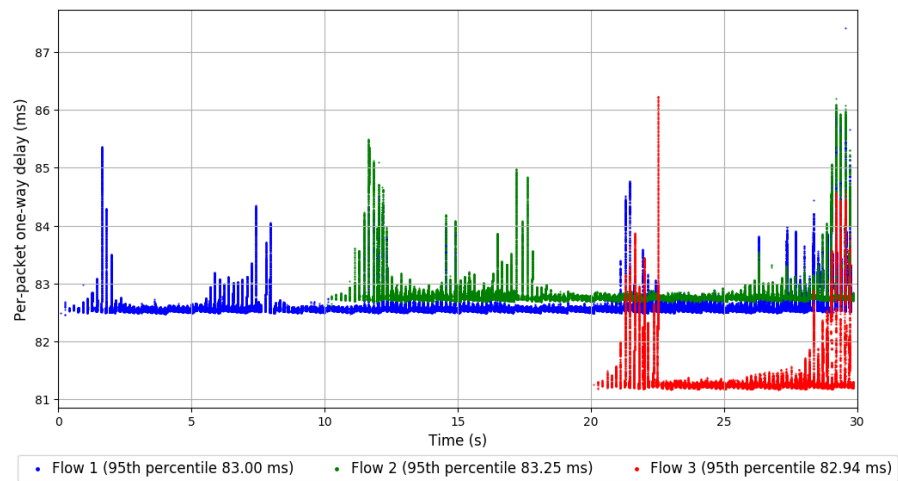
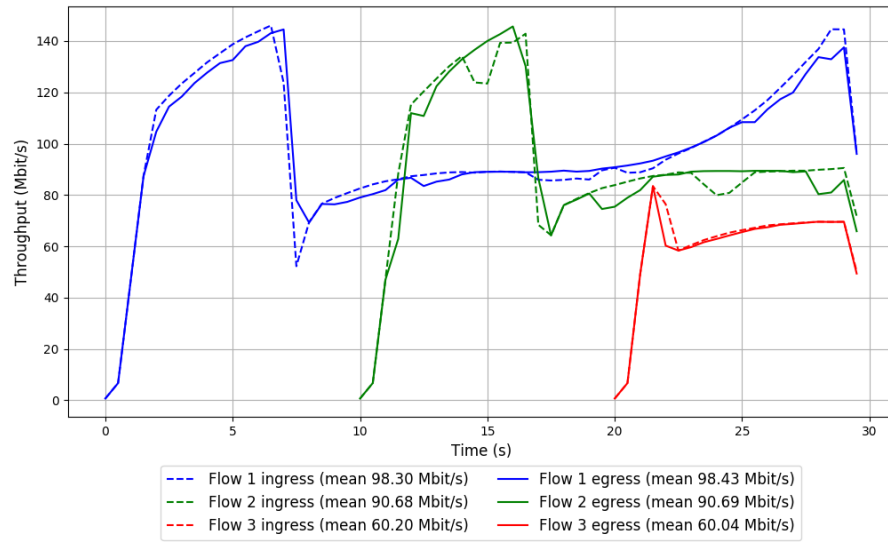


Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 07:37:14
End at: 2017-11-16 07:37:44
Local clock offset: -0.476 ms
Remote clock offset: -2.216 ms

Below is generated by plot.py at 2017-11-16 14:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.92 Mbit/s
95th percentile per-packet one-way delay: 83.084 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 98.43 Mbit/s
95th percentile per-packet one-way delay: 83.002 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: 83.253 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 82.937 ms
Loss rate: 1.94%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 07:57:17

End at: 2017-11-16 07:57:47

Local clock offset: -0.419 ms

Remote clock offset: -5.31 ms

Below is generated by plot.py at 2017-11-16 14:10:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.75 Mbit/s

95th percentile per-packet one-way delay: 88.079 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 50.14 Mbit/s

95th percentile per-packet one-way delay: 88.116 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 1.19%

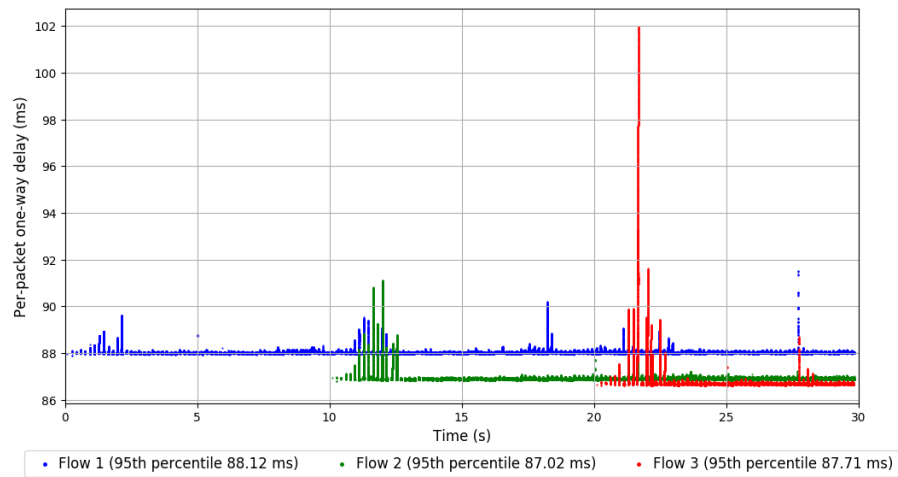
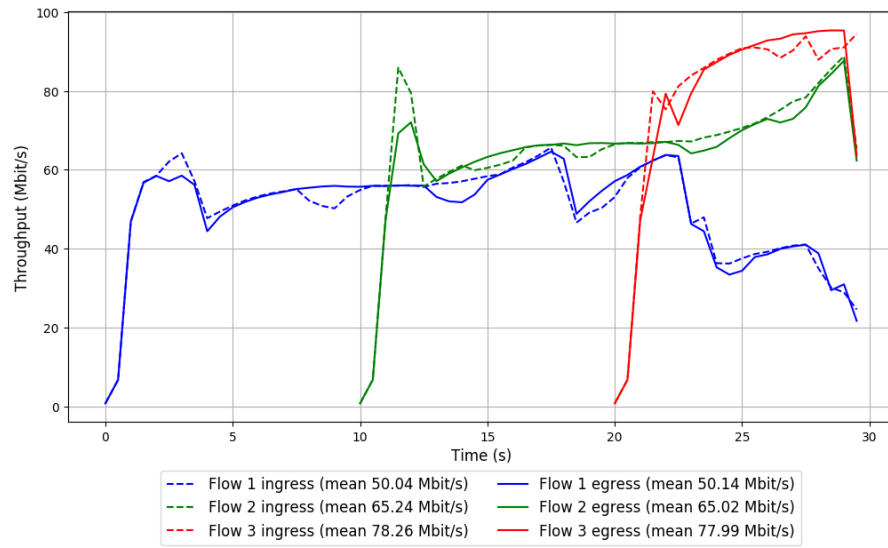
-- Flow 3:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 87.712 ms

Loss rate: 2.05%

Run 2: Report of TCP Cubic — Data Link

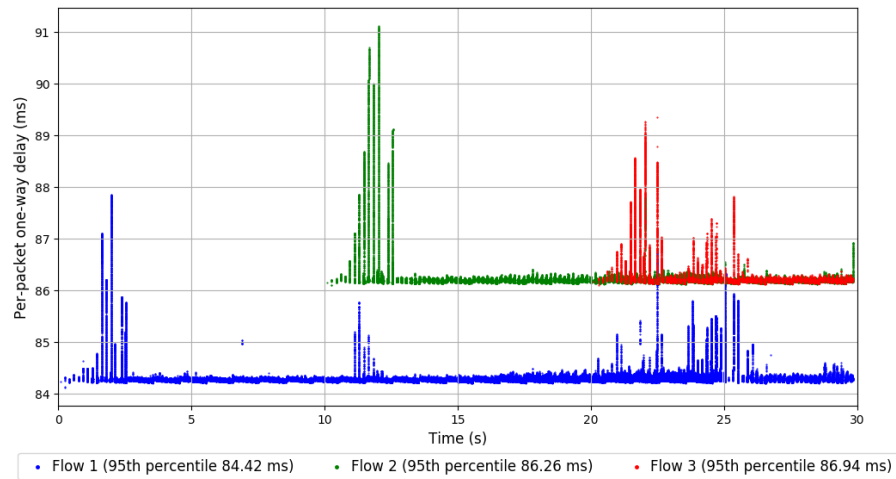
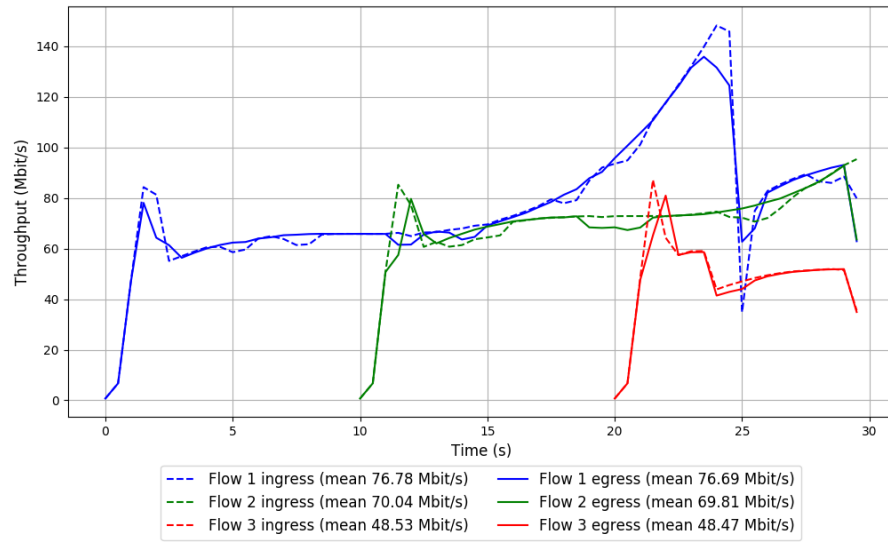


Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 08:17:20
End at: 2017-11-16 08:17:50
Local clock offset: -0.392 ms
Remote clock offset: -4.225 ms

Below is generated by plot.py at 2017-11-16 14:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 138.82 Mbit/s
95th percentile per-packet one-way delay: 86.238 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 84.422 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 69.81 Mbit/s
95th percentile per-packet one-way delay: 86.256 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 86.936 ms
Loss rate: 1.81%

Run 3: Report of TCP Cubic — Data Link

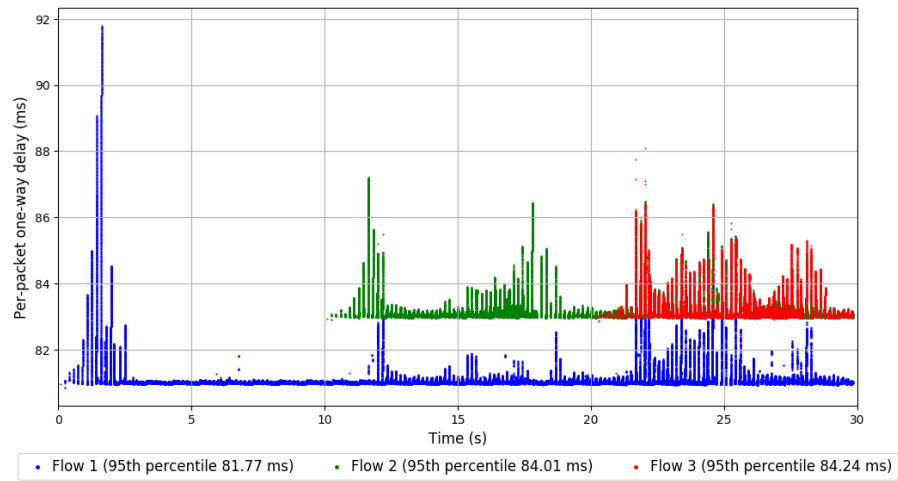
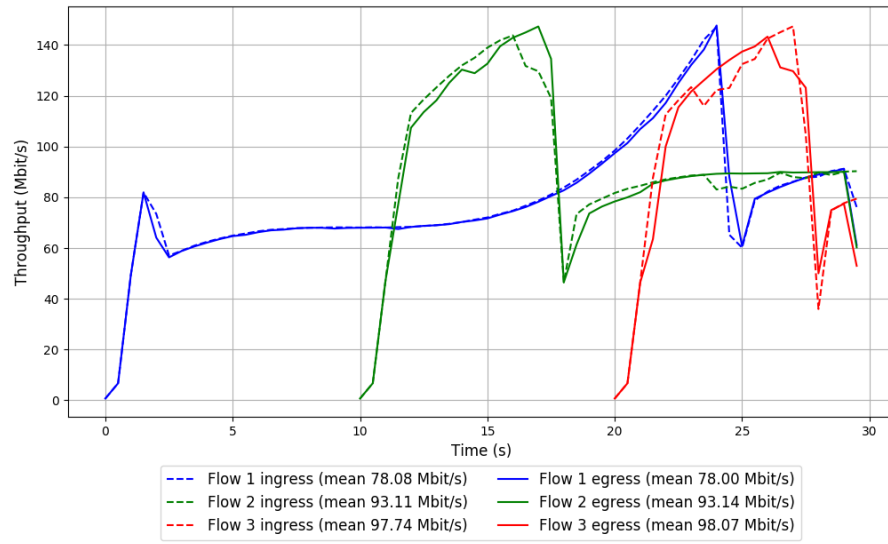


Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 08:37:25
End at: 2017-11-16 08:37:55
Local clock offset: -0.309 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2017-11-16 14:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.78 Mbit/s
95th percentile per-packet one-way delay: 83.685 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 78.00 Mbit/s
95th percentile per-packet one-way delay: 81.772 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 84.007 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 98.07 Mbit/s
95th percentile per-packet one-way delay: 84.237 ms
Loss rate: 1.39%

Run 4: Report of TCP Cubic — Data Link

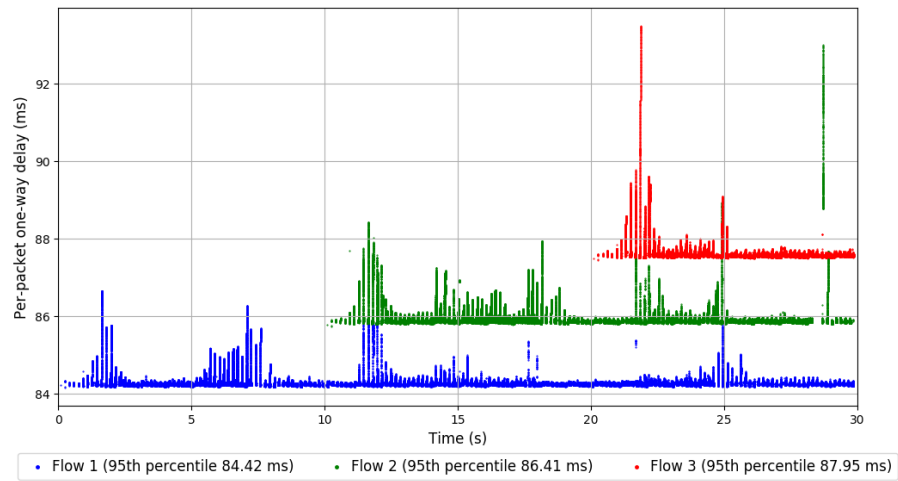
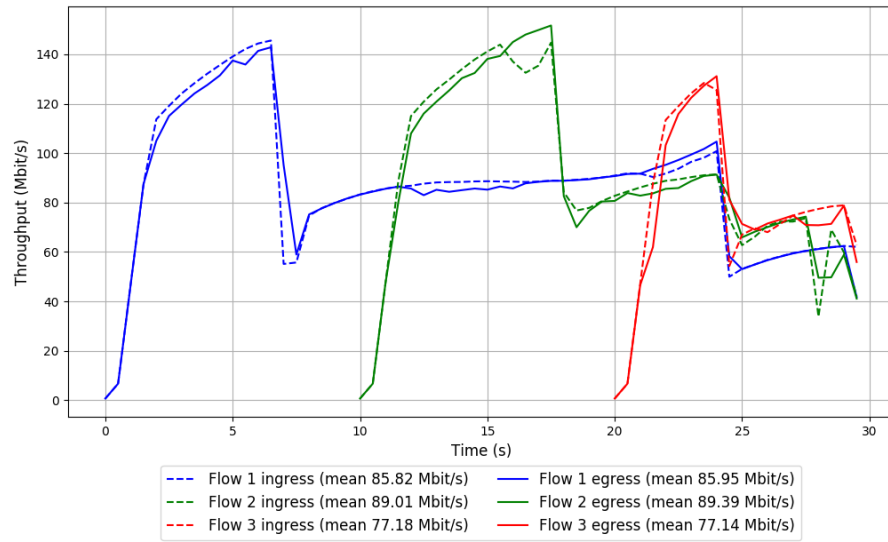


Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 08:57:28
End at: 2017-11-16 08:57:58
Local clock offset: -0.175 ms
Remote clock offset: -3.562 ms

Below is generated by plot.py at 2017-11-16 14:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 170.40 Mbit/s
95th percentile per-packet one-way delay: 87.606 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 84.422 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 86.409 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 87.949 ms
Loss rate: 1.76%

Run 5: Report of TCP Cubic — Data Link

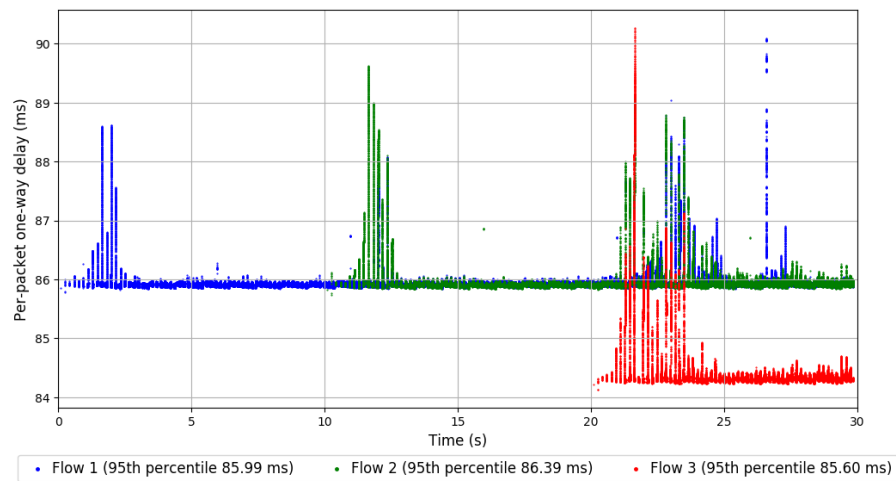
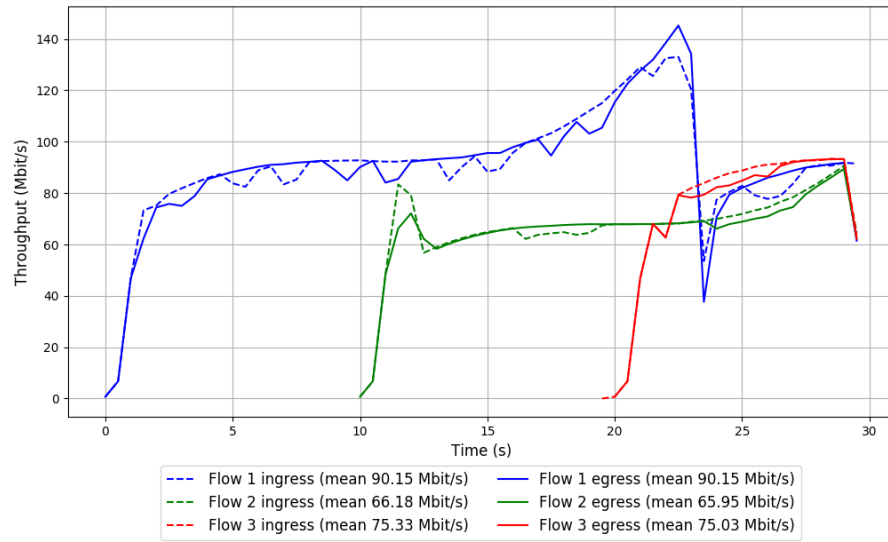


Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 09:17:34
End at: 2017-11-16 09:18:04
Local clock offset: -0.187 ms
Remote clock offset: -3.018 ms

Below is generated by plot.py at 2017-11-16 14:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 158.44 Mbit/s
95th percentile per-packet one-way delay: 86.045 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 90.15 Mbit/s
95th percentile per-packet one-way delay: 85.990 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 86.389 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 75.03 Mbit/s
95th percentile per-packet one-way delay: 85.598 ms
Loss rate: 2.09%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 09:37:42

End at: 2017-11-16 09:38:12

Local clock offset: -0.06 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at 2017-11-16 14:11:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 84.141 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 99.96 Mbit/s

95th percentile per-packet one-way delay: 82.175 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 82.119 ms

Loss rate: 1.11%

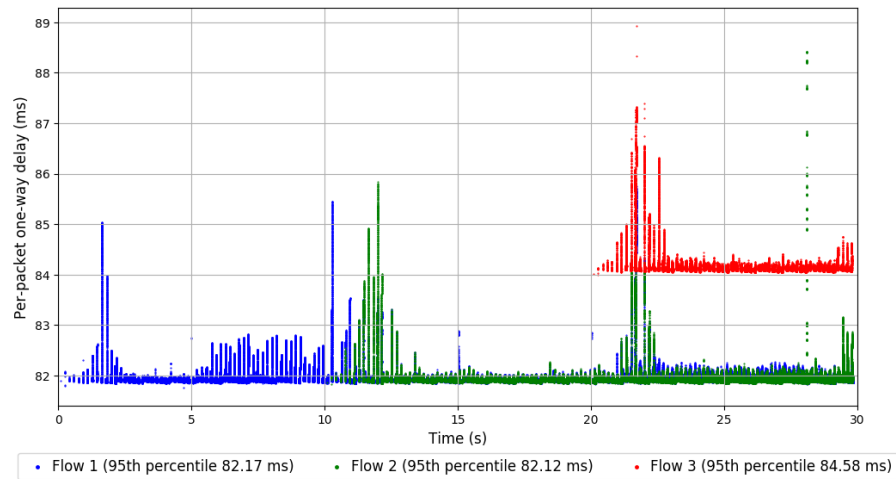
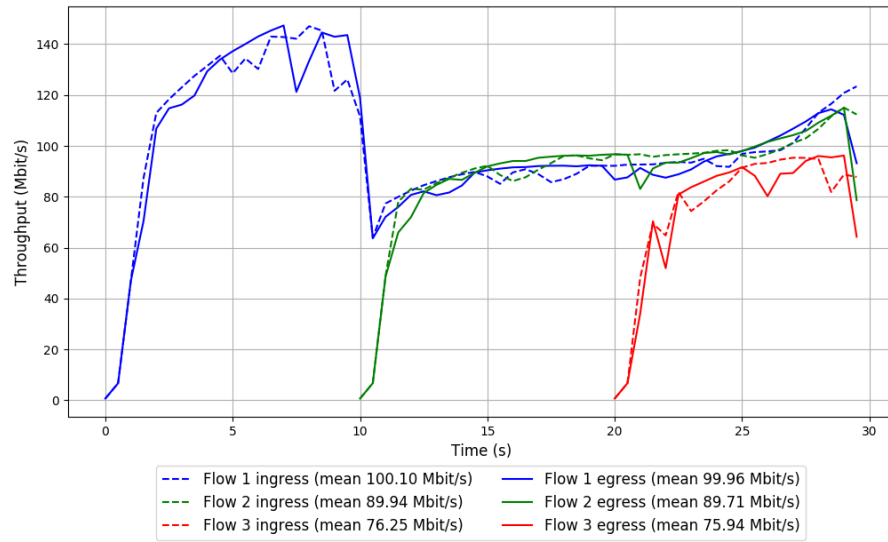
-- Flow 3:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 84.581 ms

Loss rate: 2.14%

Run 7: Report of TCP Cubic — Data Link

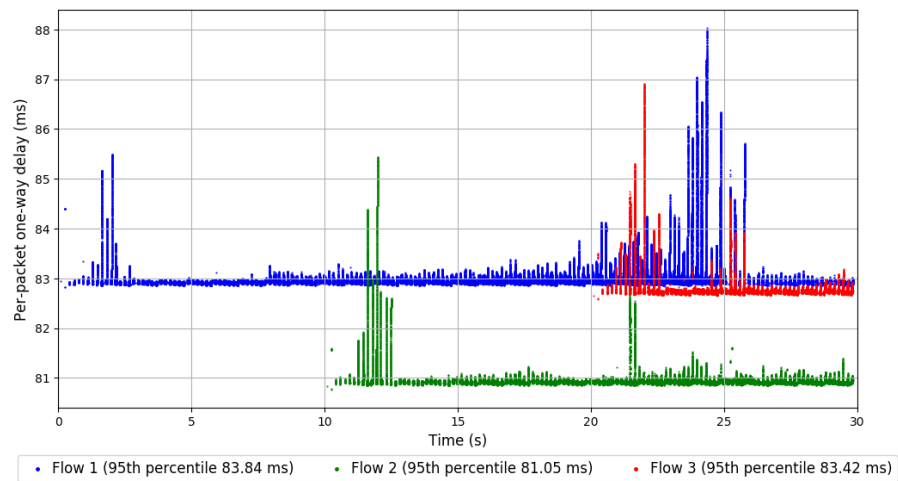
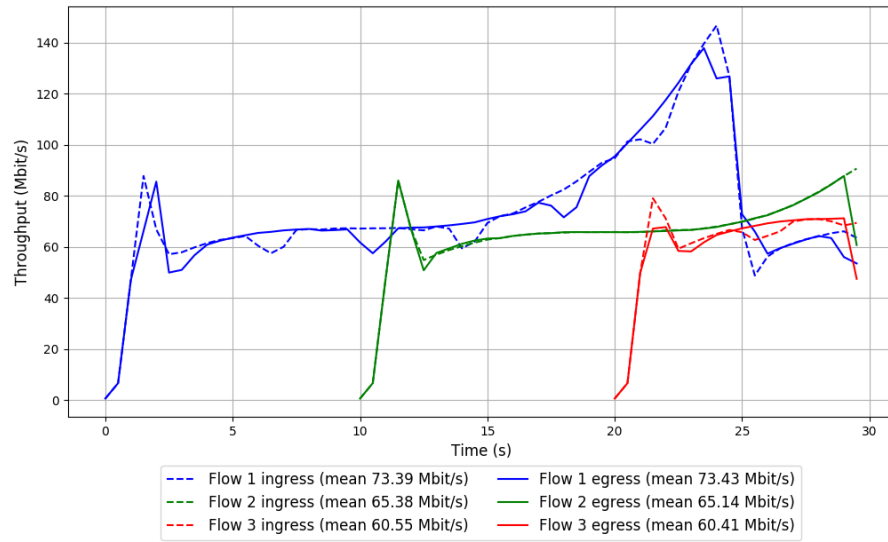


Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 09:57:54
End at: 2017-11-16 09:58:24
Local clock offset: -0.045 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2017-11-16 14:11:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.47 Mbit/s
95th percentile per-packet one-way delay: 83.472 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 83.841 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 65.14 Mbit/s
95th percentile per-packet one-way delay: 81.054 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 83.420 ms
Loss rate: 1.98%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 10:17:55

End at: 2017-11-16 10:18:25

Local clock offset: 0.02 ms

Remote clock offset: 0.661 ms

Below is generated by plot.py at 2017-11-16 14:11:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.93 Mbit/s

95th percentile per-packet one-way delay: 81.506 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 90.43 Mbit/s

95th percentile per-packet one-way delay: 81.542 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 89.38 Mbit/s

95th percentile per-packet one-way delay: 80.487 ms

Loss rate: 1.09%

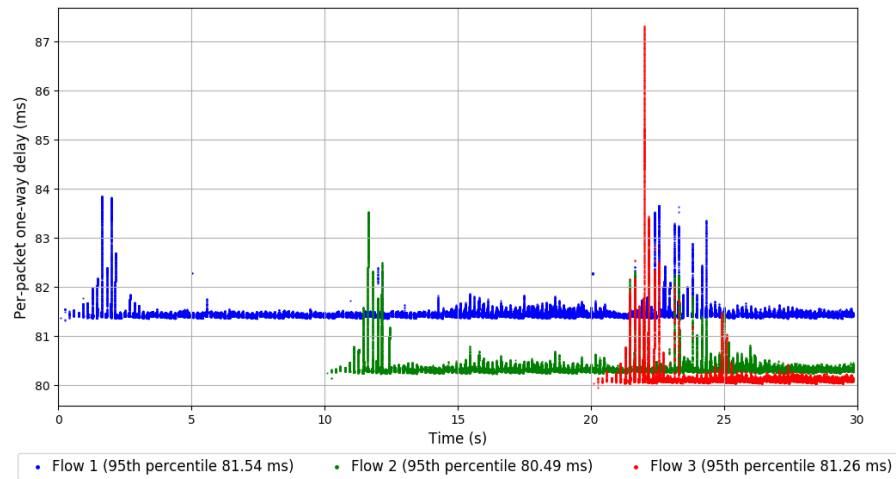
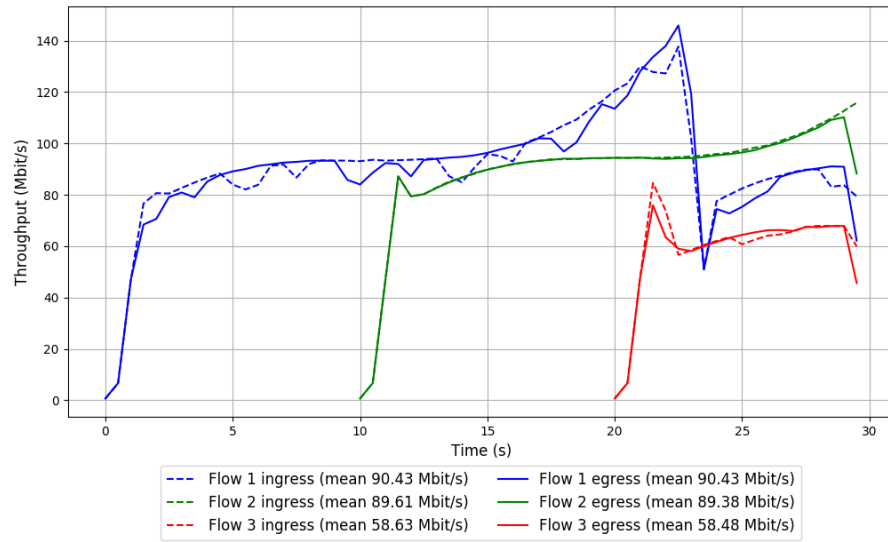
-- Flow 3:

Average throughput: 58.48 Mbit/s

95th percentile per-packet one-way delay: 81.256 ms

Loss rate: 1.94%

Run 9: Report of TCP Cubic — Data Link

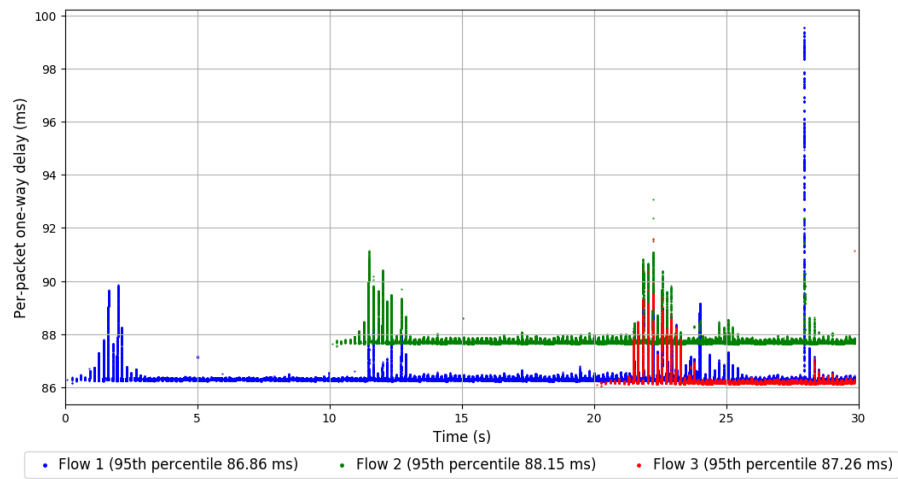
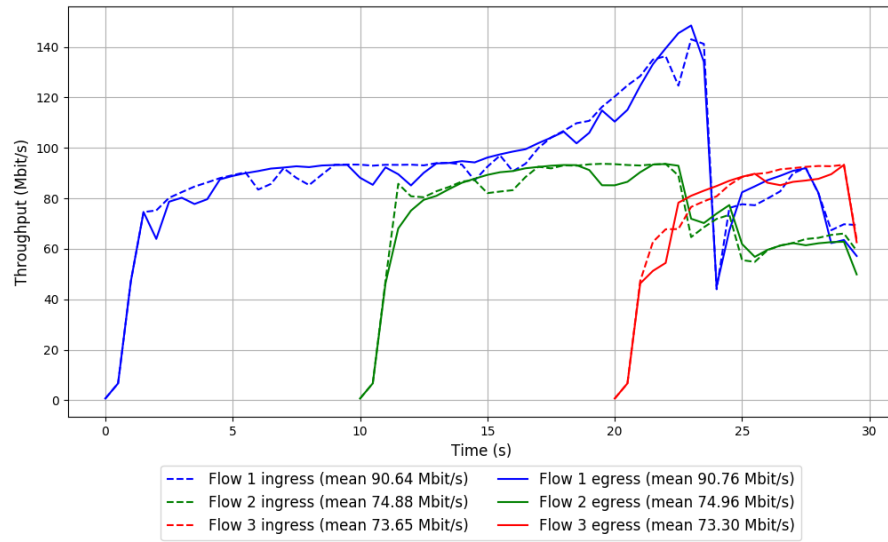


Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 10:38:06
End at: 2017-11-16 10:38:36
Local clock offset: 0.055 ms
Remote clock offset: -4.178 ms

Below is generated by plot.py at 2017-11-16 14:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 164.50 Mbit/s
95th percentile per-packet one-way delay: 87.811 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 86.861 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 74.96 Mbit/s
95th percentile per-packet one-way delay: 88.152 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 73.30 Mbit/s
95th percentile per-packet one-way delay: 87.262 ms
Loss rate: 2.12%

Run 10: Report of TCP Cubic — Data Link

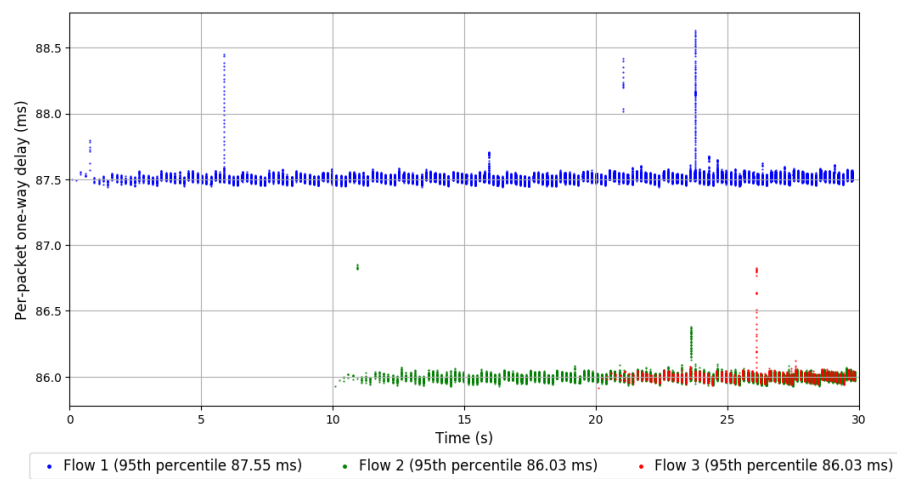
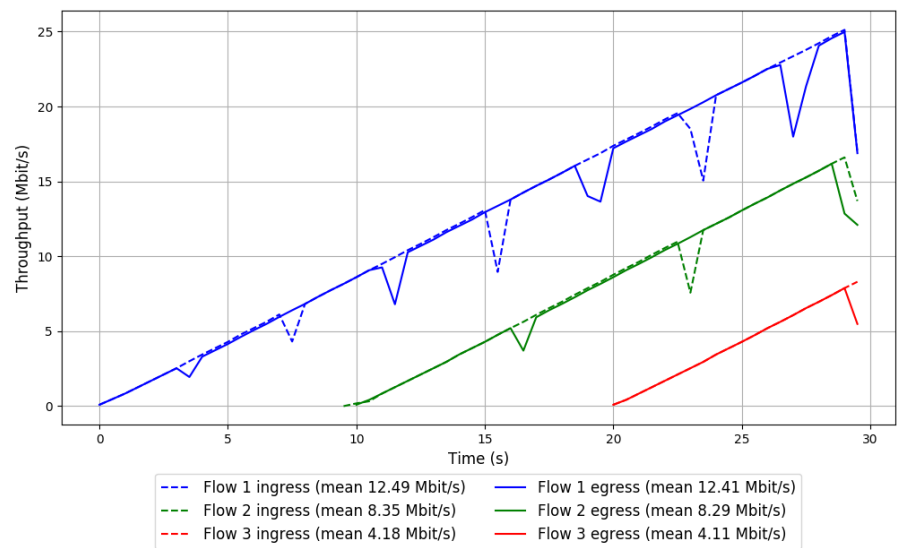


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 07:18:27
End at: 2017-11-16 07:18:57
Local clock offset: -0.504 ms
Remote clock offset: -7.3 ms

# Below is generated by plot.py at 2017-11-16 14:11:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 87.543 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 87.548 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 86.034 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 86.035 ms
Loss rate: 3.42%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

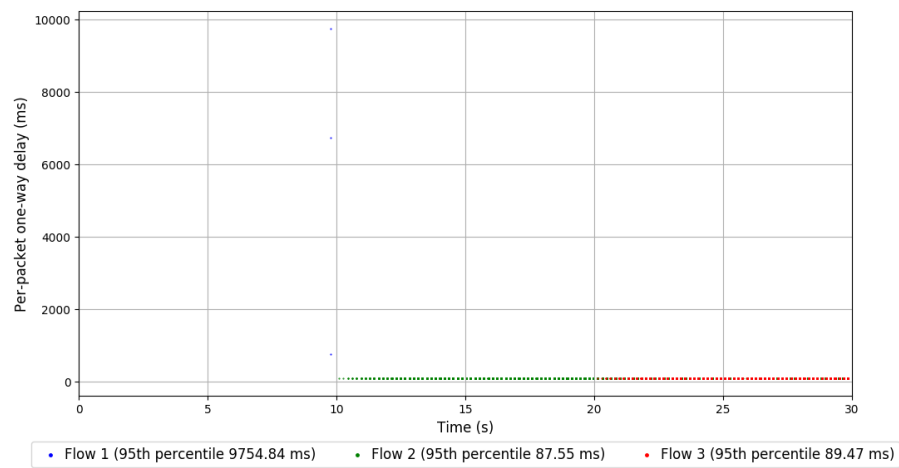
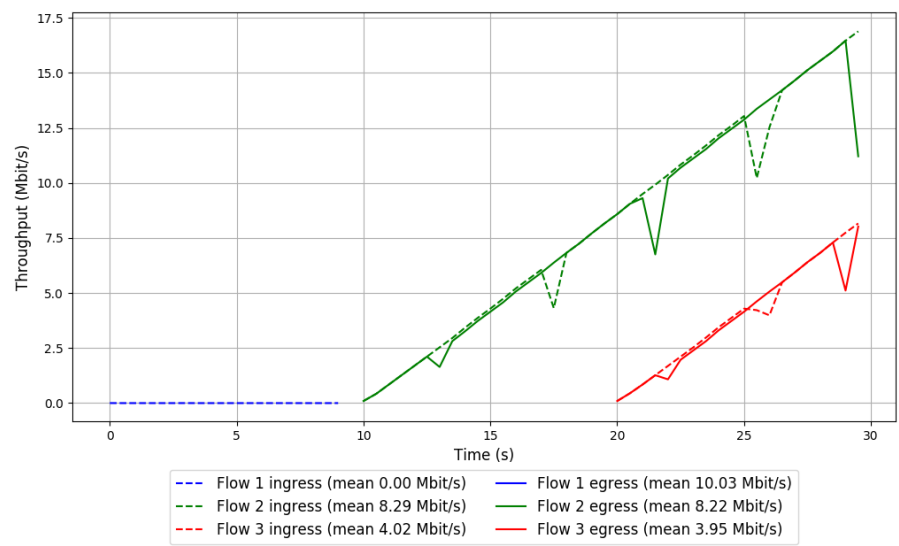
Start at: 2017-11-16 07:38:38

End at: 2017-11-16 07:39:08

Local clock offset: -0.489 ms

Remote clock offset: -7.082 ms

Run 2: Report of LEDBAT — Data Link

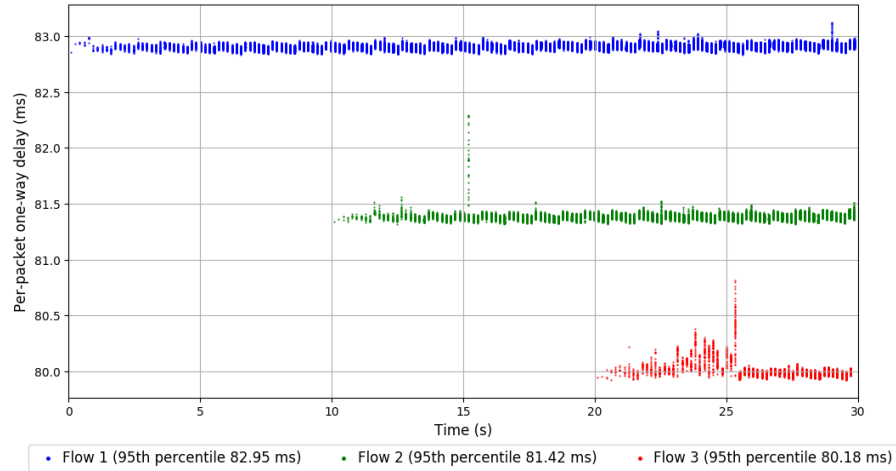
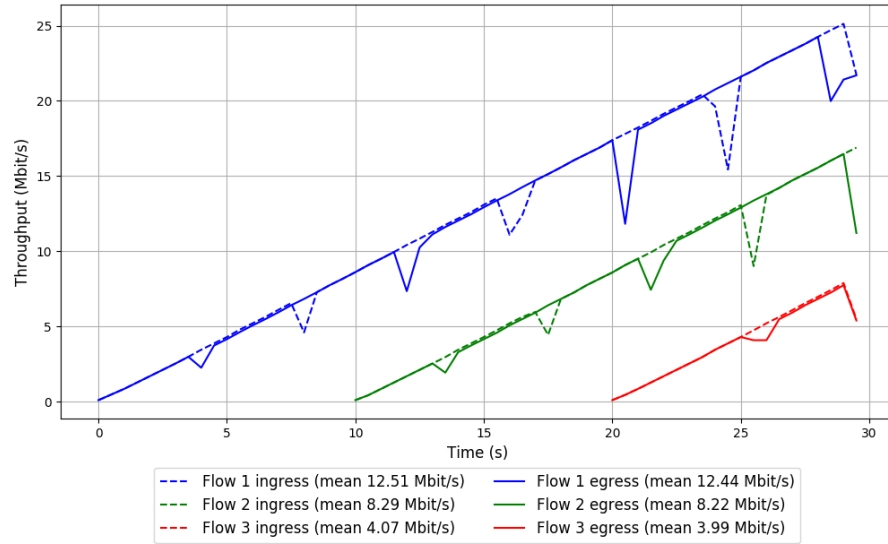


Run 3: Statistics of LEDBAT

Start at: 2017-11-16 07:58:37
End at: 2017-11-16 07:59:07
Local clock offset: -0.414 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2017-11-16 14:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 82.941 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 82.946 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 81.425 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 80.182 ms
Loss rate: 3.48%

Run 3: Report of LEDBAT — Data Link

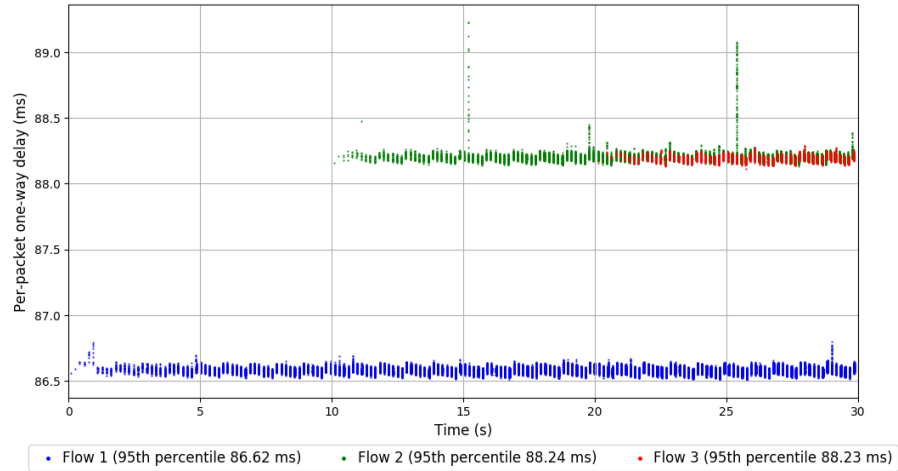
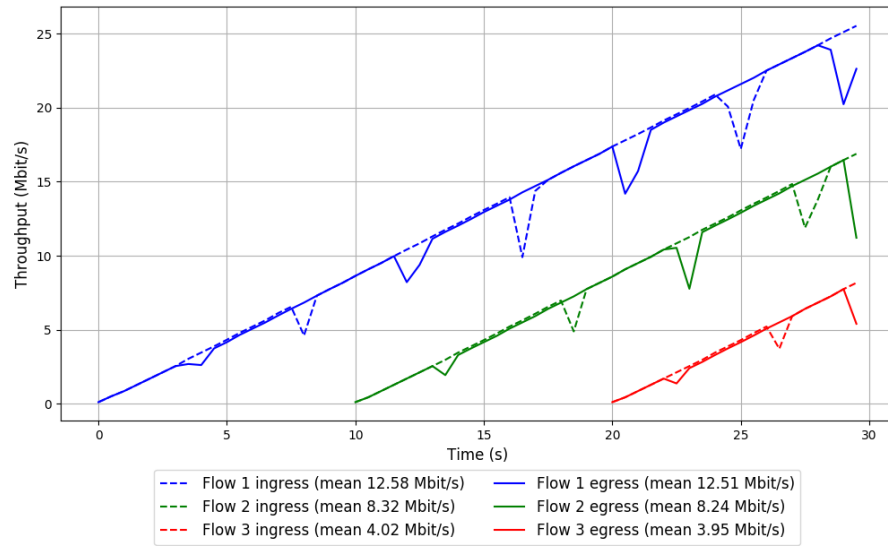


Run 4: Statistics of LEDBAT

Start at: 2017-11-16 08:18:42
End at: 2017-11-16 08:19:12
Local clock offset: -0.292 ms
Remote clock offset: -4.744 ms

Below is generated by plot.py at 2017-11-16 14:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.25 Mbit/s
95th percentile per-packet one-way delay: 88.225 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 86.617 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 88.240 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 88.229 ms
Loss rate: 3.48%

Run 4: Report of LEDBAT — Data Link

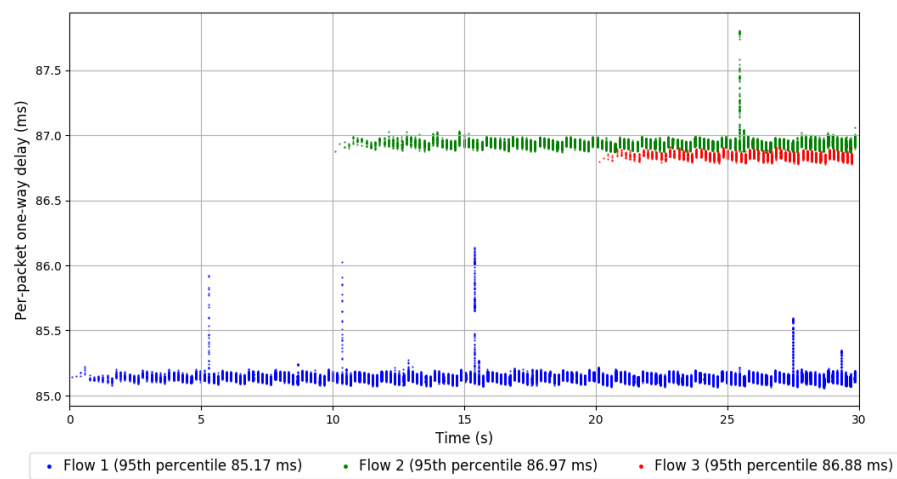
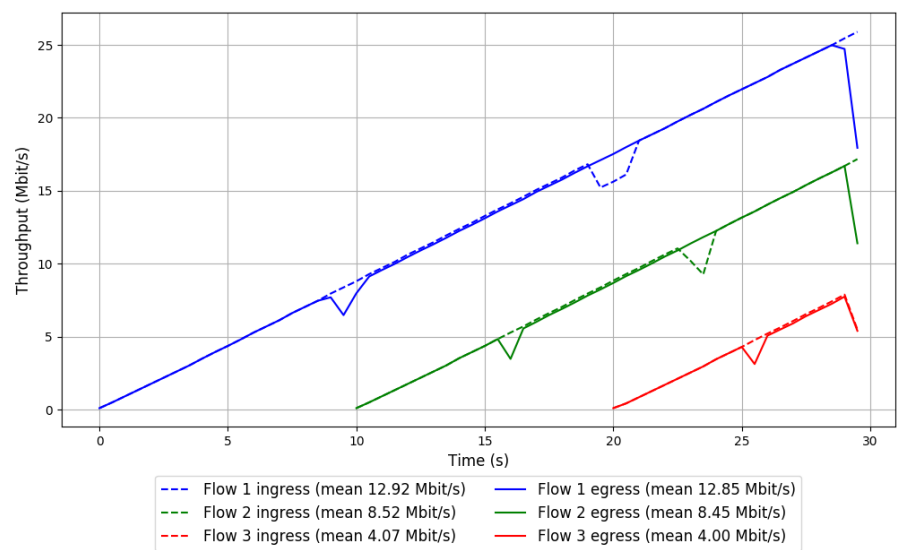


Run 5: Statistics of LEDBAT

Start at: 2017-11-16 08:38:48
End at: 2017-11-16 08:39:18
Local clock offset: -0.253 ms
Remote clock offset: -4.299 ms

Below is generated by plot.py at 2017-11-16 14:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 86.955 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 85.173 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 86.973 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 86.878 ms
Loss rate: 3.48%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-16 08:58:52

End at: 2017-11-16 08:59:22

Local clock offset: -0.155 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2017-11-16 14:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 82.369 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 80.565 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 8.38 Mbit/s

95th percentile per-packet one-way delay: 82.383 ms

Loss rate: 1.70%

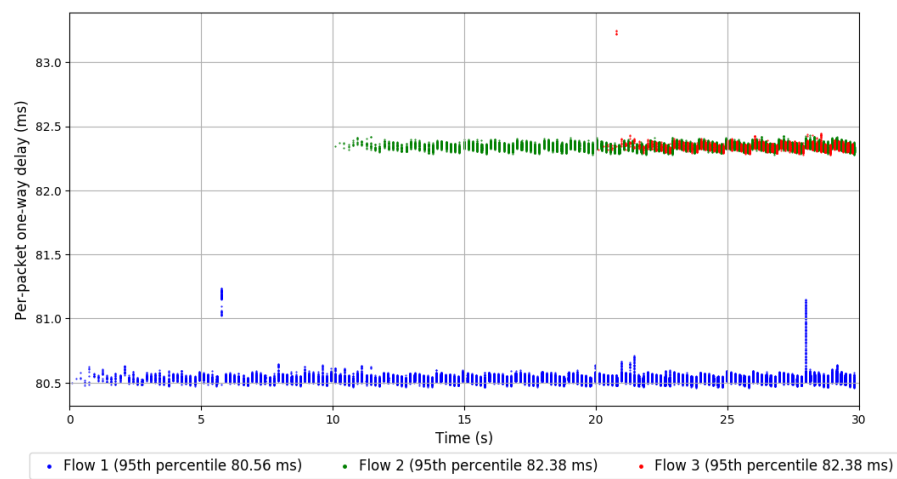
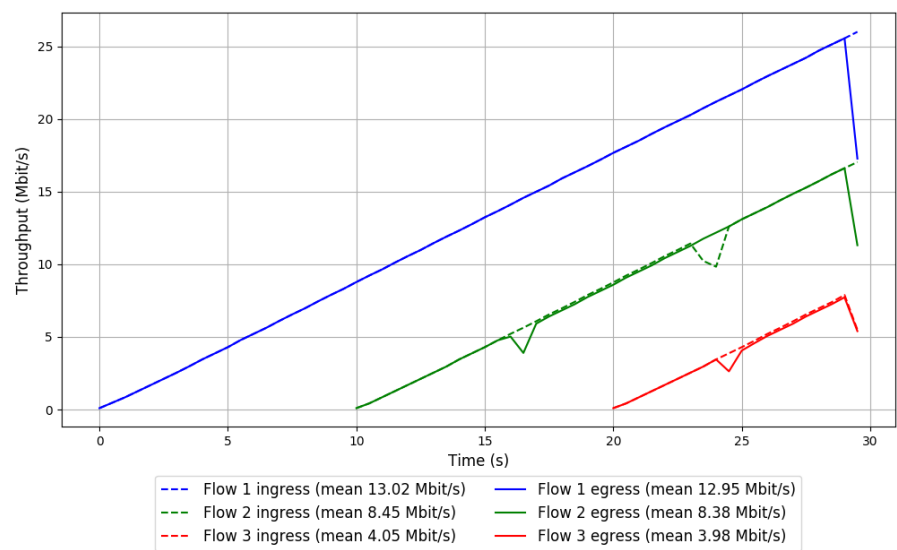
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 82.378 ms

Loss rate: 3.48%

Run 6: Report of LEDBAT — Data Link

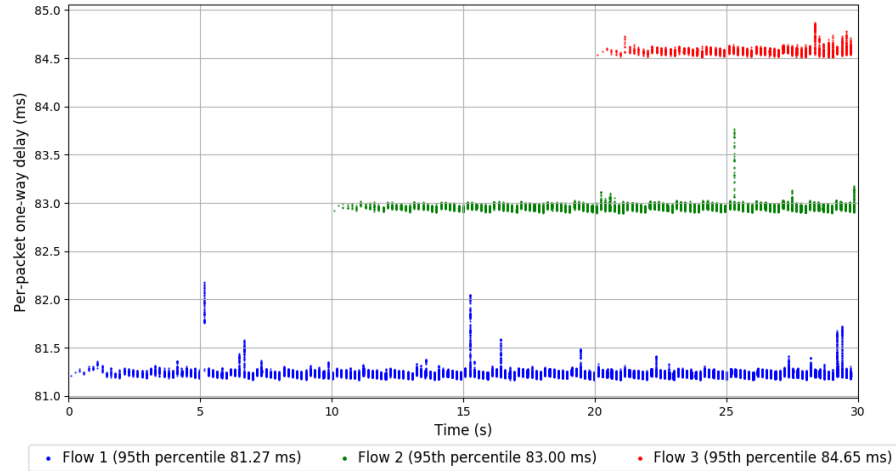
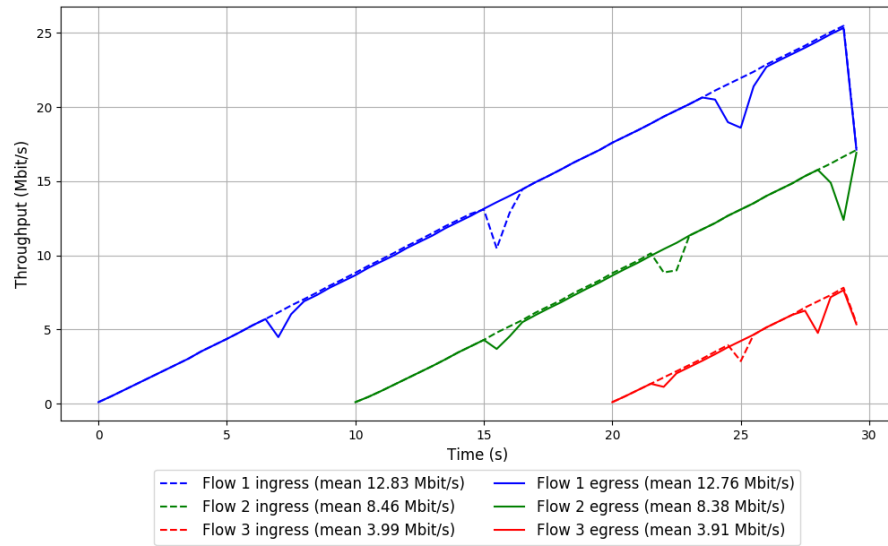


Run 7: Statistics of LEDBAT

Start at: 2017-11-16 09:18:57
End at: 2017-11-16 09:19:27
Local clock offset: -0.111 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2017-11-16 14:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.53 Mbit/s
95th percentile per-packet one-way delay: 84.555 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 81.269 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 82.997 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 84.649 ms
Loss rate: 3.52%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 09:39:07

End at: 2017-11-16 09:39:37

Local clock offset: -0.081 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2017-11-16 14:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.12 Mbit/s

95th percentile per-packet one-way delay: 83.861 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 83.867 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 82.351 ms

Loss rate: 1.70%

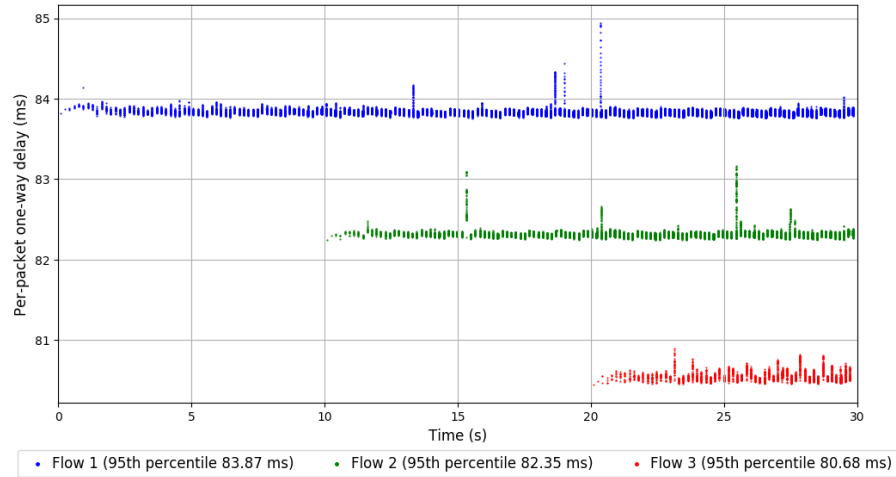
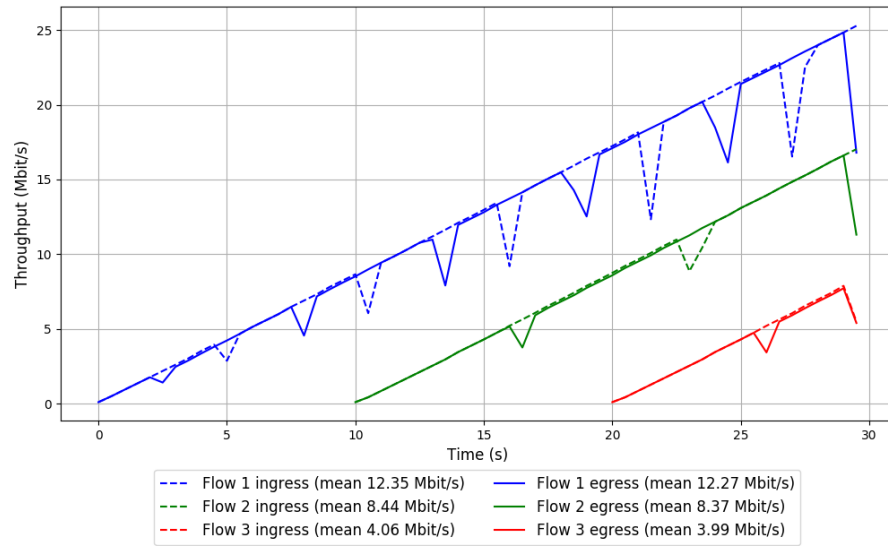
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 80.676 ms

Loss rate: 3.48%

Run 8: Report of LEDBAT — Data Link

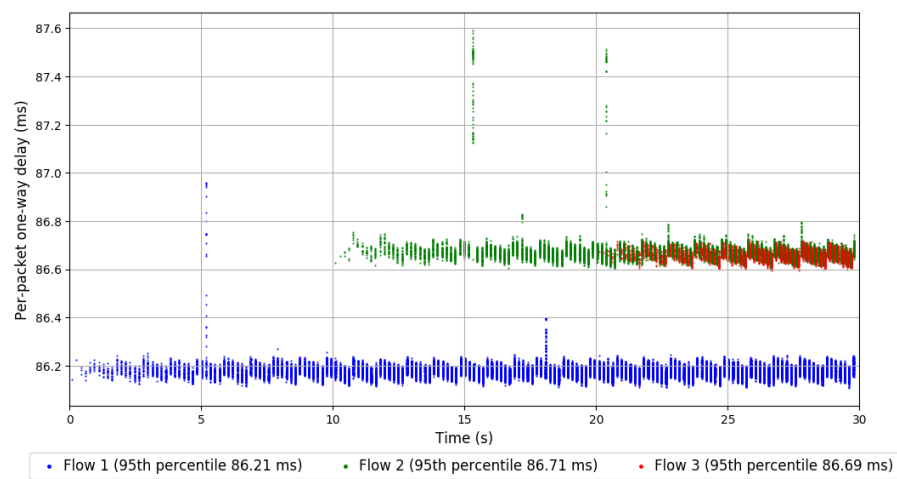
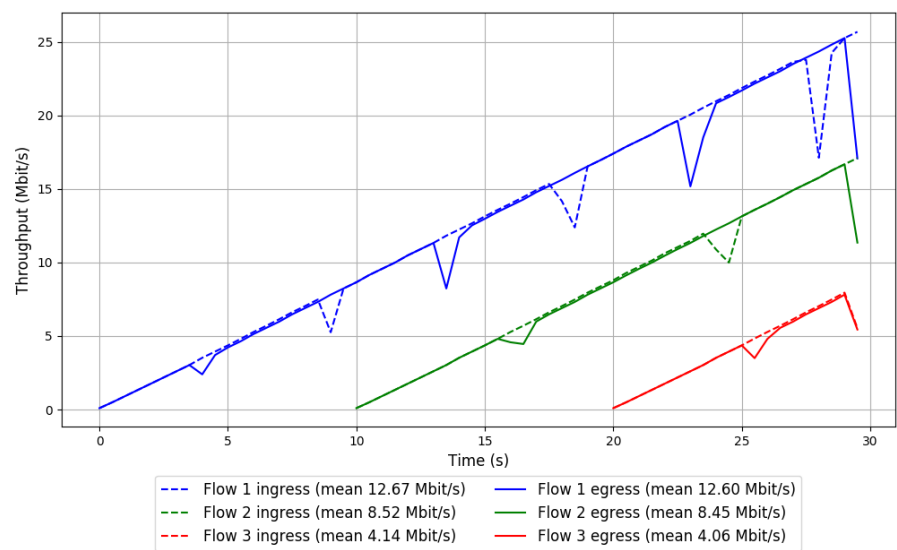


Run 9: Statistics of LEDBAT

Start at: 2017-11-16 09:59:16
End at: 2017-11-16 09:59:46
Local clock offset: -0.037 ms
Remote clock offset: -3.823 ms

Below is generated by plot.py at 2017-11-16 14:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 86.693 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 86.214 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 86.693 ms
Loss rate: 3.45%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-16 10:19:19

End at: 2017-11-16 10:19:49

Local clock offset: -0.053 ms

Remote clock offset: -1.12 ms

Below is generated by plot.py at 2017-11-16 14:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 84.942 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 83.586 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 81.689 ms

Loss rate: 1.69%

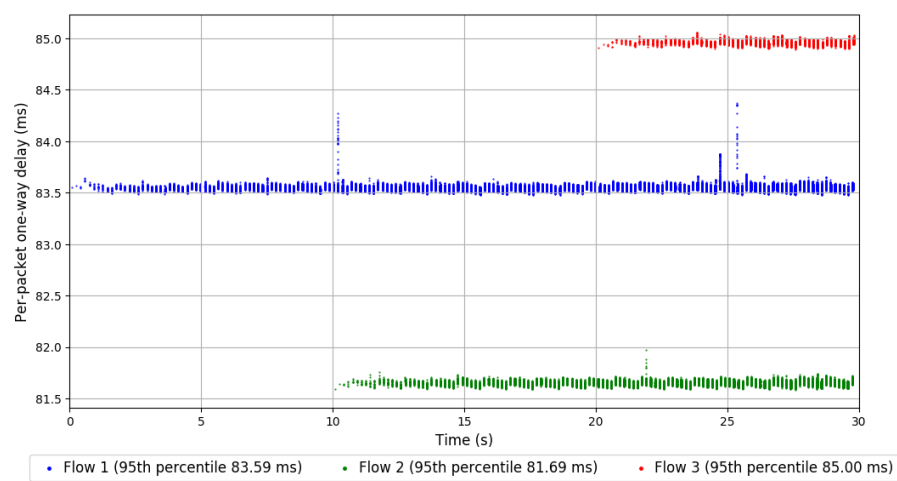
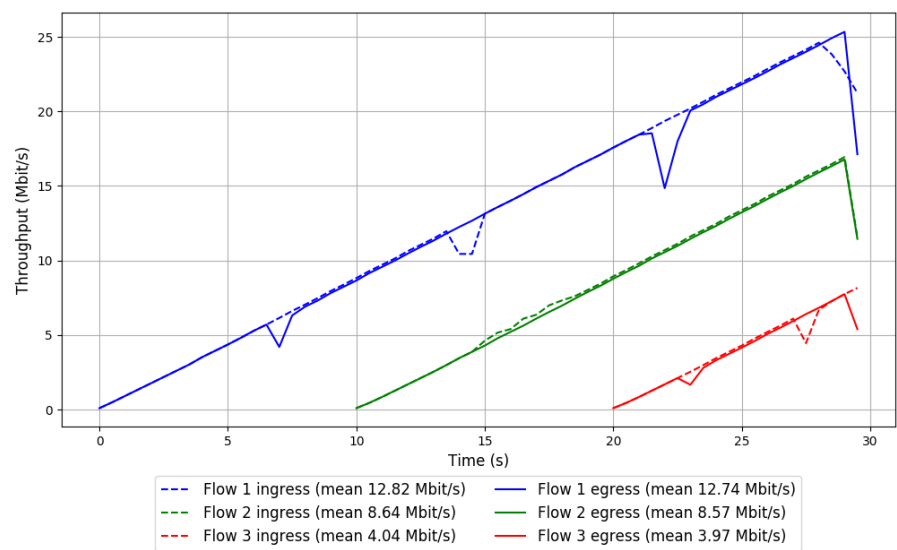
-- Flow 3:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 85.001 ms

Loss rate: 3.48%

Run 10: Report of LEDBAT — Data Link

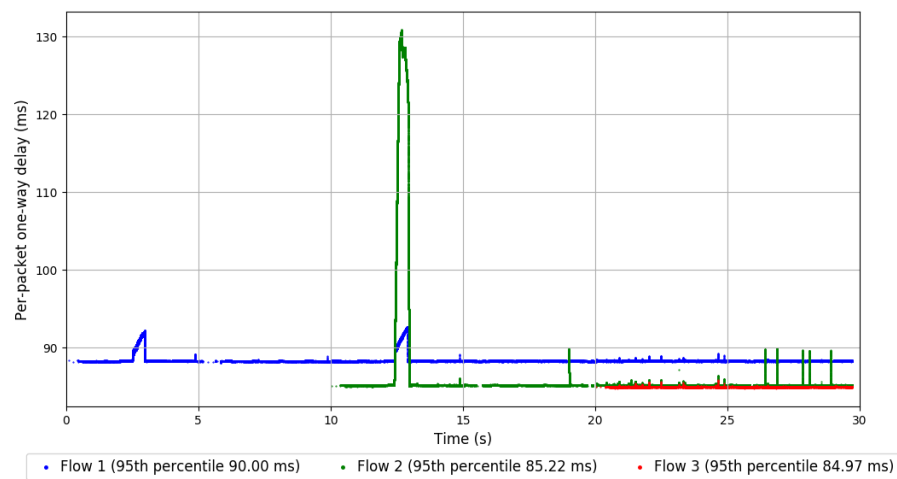
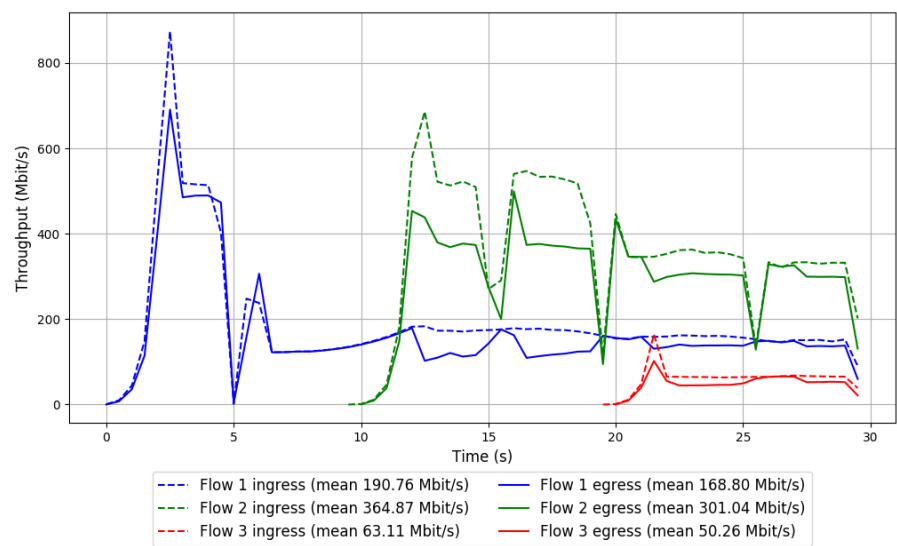


Run 1: Statistics of PCC

Start at: 2017-11-16 07:28:18
End at: 2017-11-16 07:28:48
Local clock offset: -0.483 ms
Remote clock offset: -6.258 ms

Below is generated by plot.py at 2017-11-16 14:16:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 385.29 Mbit/s
95th percentile per-packet one-way delay: 89.681 ms
Loss rate: 15.77%
-- Flow 1:
Average throughput: 168.80 Mbit/s
95th percentile per-packet one-way delay: 90.001 ms
Loss rate: 12.02%
-- Flow 2:
Average throughput: 301.04 Mbit/s
95th percentile per-packet one-way delay: 85.218 ms
Loss rate: 18.19%
-- Flow 3:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 84.969 ms
Loss rate: 21.73%

Run 1: Report of PCC — Data Link

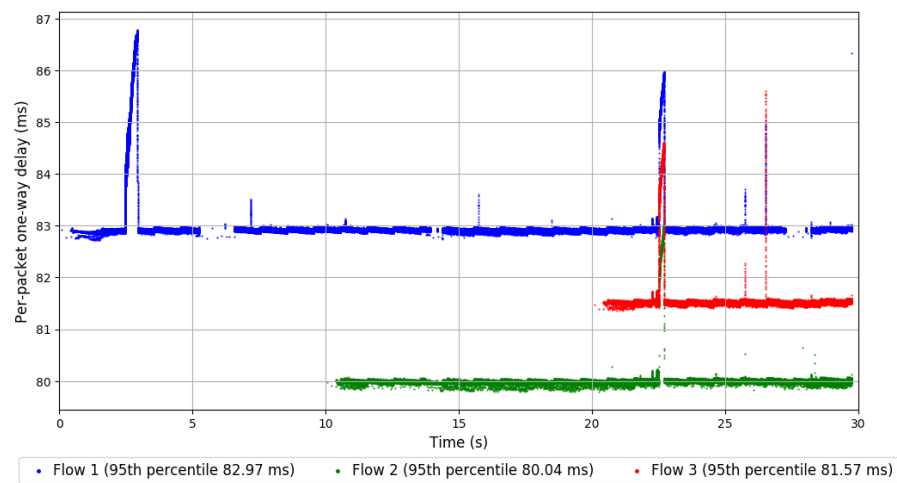
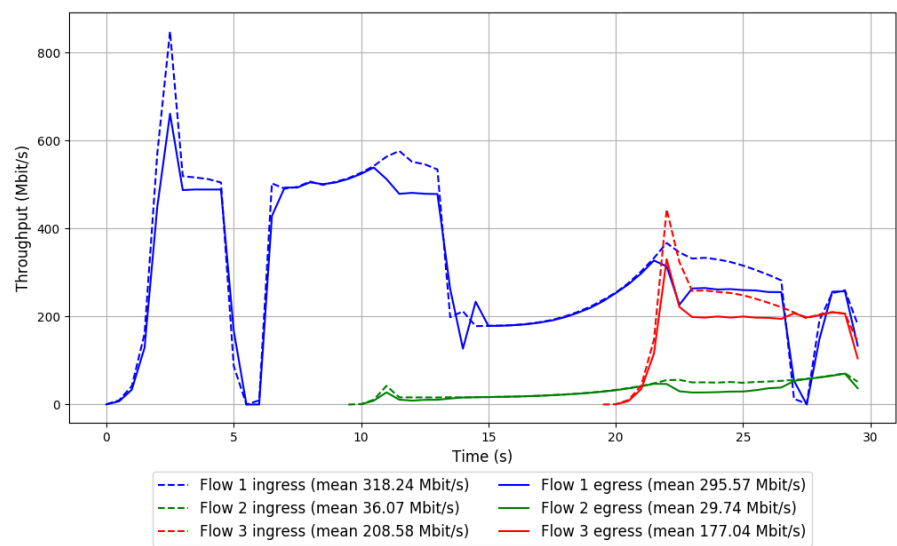


Run 2: Statistics of PCC

Start at: 2017-11-16 07:48:30
End at: 2017-11-16 07:49:00
Local clock offset: -0.444 ms
Remote clock offset: -0.671 ms

Below is generated by plot.py at 2017-11-16 14:16:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 373.02 Mbit/s
95th percentile per-packet one-way delay: 82.967 ms
Loss rate: 9.76%
-- Flow 1:
Average throughput: 295.57 Mbit/s
95th percentile per-packet one-way delay: 82.973 ms
Loss rate: 7.64%
-- Flow 2:
Average throughput: 29.74 Mbit/s
95th percentile per-packet one-way delay: 80.039 ms
Loss rate: 18.27%
-- Flow 3:
Average throughput: 177.04 Mbit/s
95th percentile per-packet one-way delay: 81.567 ms
Loss rate: 16.59%

Run 2: Report of PCC — Data Link

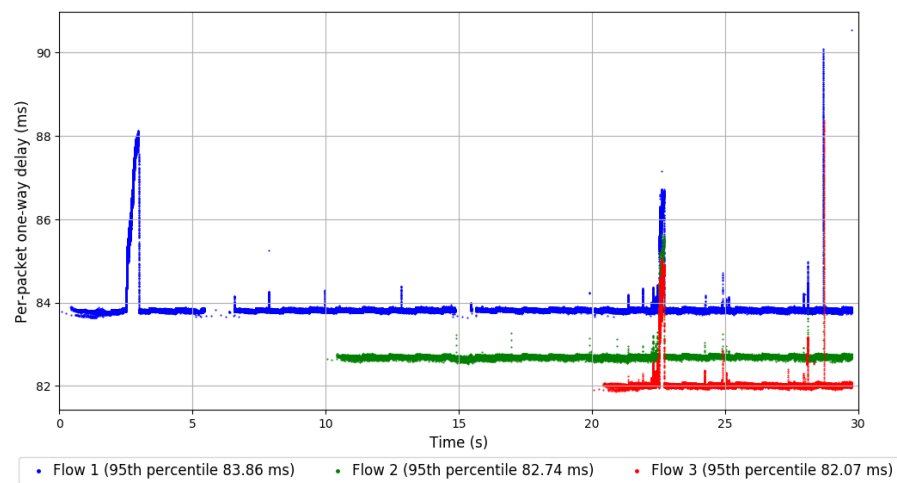
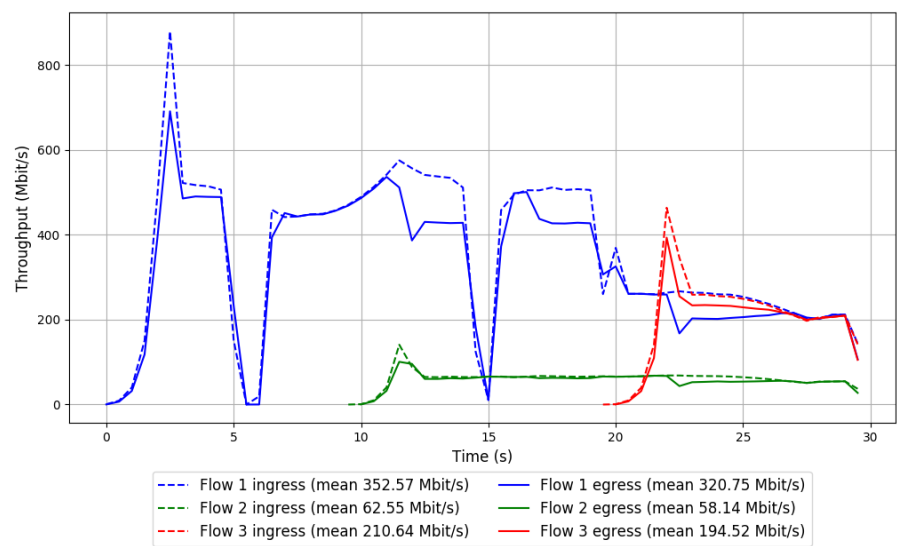


Run 3: Statistics of PCC

Start at: 2017-11-16 08:08:31
End at: 2017-11-16 08:09:01
Local clock offset: -0.365 ms
Remote clock offset: -0.633 ms

Below is generated by plot.py at 2017-11-16 14:17:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.74 Mbit/s
95th percentile per-packet one-way delay: 83.859 ms
Loss rate: 9.33%
-- Flow 1:
Average throughput: 320.75 Mbit/s
95th percentile per-packet one-way delay: 83.865 ms
Loss rate: 9.53%
-- Flow 2:
Average throughput: 58.14 Mbit/s
95th percentile per-packet one-way delay: 82.744 ms
Loss rate: 7.85%
-- Flow 3:
Average throughput: 194.52 Mbit/s
95th percentile per-packet one-way delay: 82.066 ms
Loss rate: 9.24%

Run 3: Report of PCC — Data Link

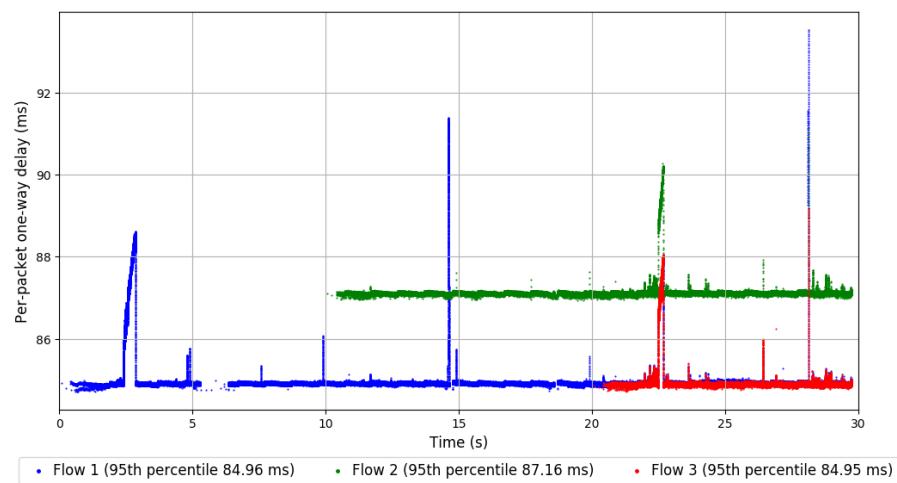
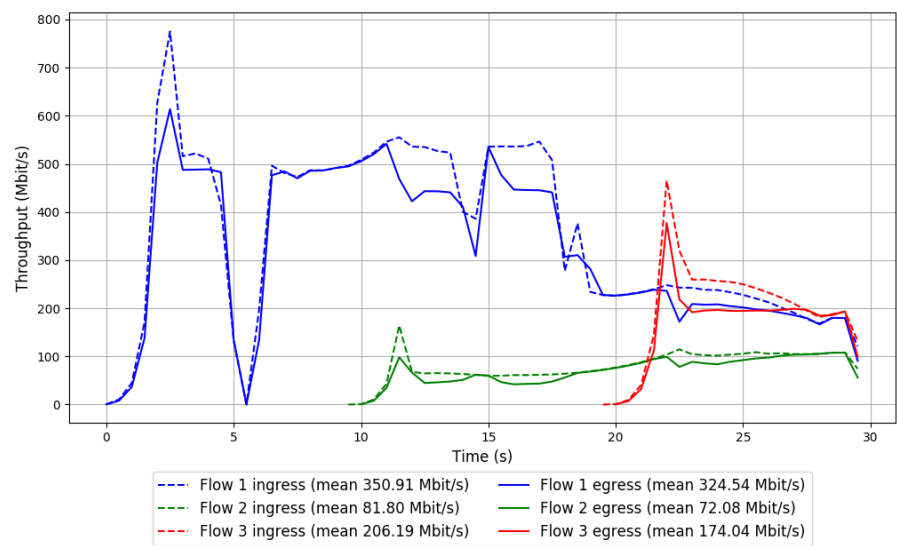


Run 4: Statistics of PCC

Start at: 2017-11-16 08:28:36
End at: 2017-11-16 08:29:06
Local clock offset: -0.308 ms
Remote clock offset: -4.448 ms

Below is generated by plot.py at 2017-11-16 14:17:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 429.11 Mbit/s
95th percentile per-packet one-way delay: 87.125 ms
Loss rate: 9.86%
-- Flow 1:
Average throughput: 324.54 Mbit/s
95th percentile per-packet one-way delay: 84.964 ms
Loss rate: 8.03%
-- Flow 2:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 87.156 ms
Loss rate: 12.64%
-- Flow 3:
Average throughput: 174.04 Mbit/s
95th percentile per-packet one-way delay: 84.955 ms
Loss rate: 17.03%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 08:48:43

End at: 2017-11-16 08:49:13

Local clock offset: -0.205 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2017-11-16 14:17:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.01 Mbit/s

95th percentile per-packet one-way delay: 82.594 ms

Loss rate: 11.22%

-- Flow 1:

Average throughput: 171.86 Mbit/s

95th percentile per-packet one-way delay: 83.760 ms

Loss rate: 9.09%

-- Flow 2:

Average throughput: 303.45 Mbit/s

95th percentile per-packet one-way delay: 80.550 ms

Loss rate: 12.96%

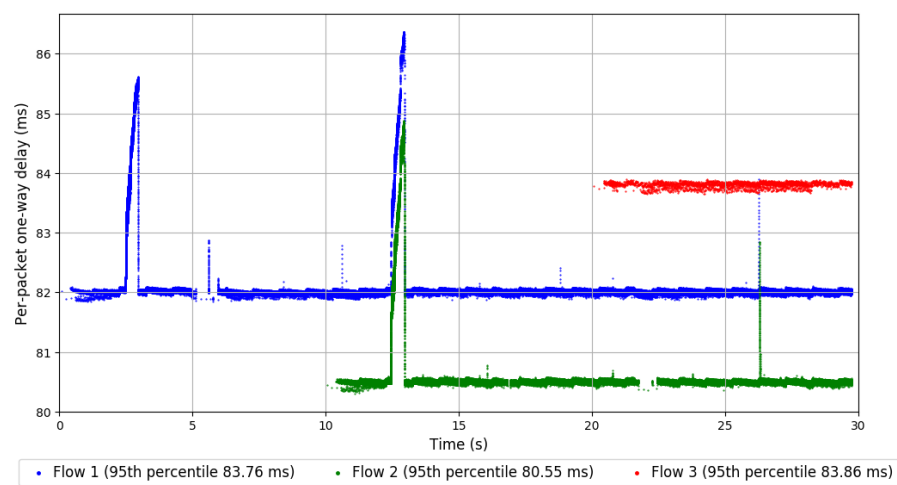
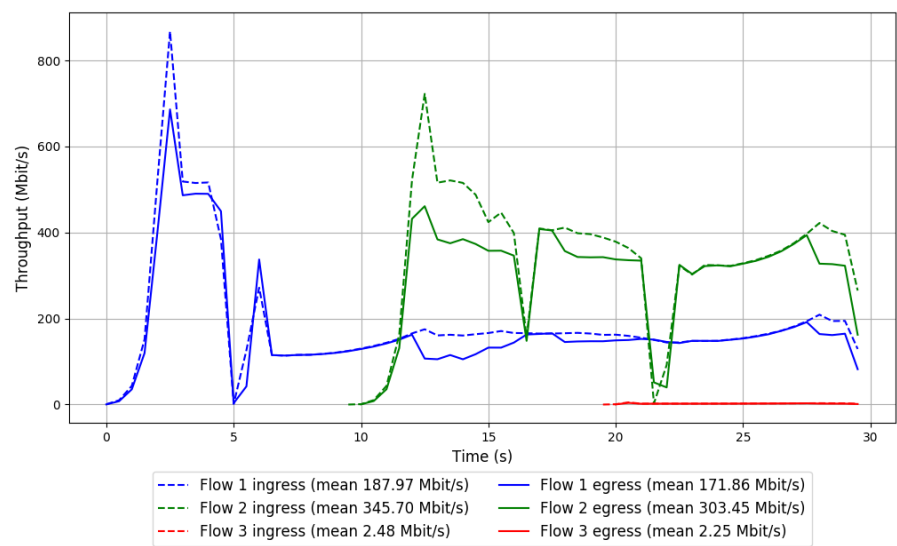
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 83.865 ms

Loss rate: 10.71%

Run 5: Report of PCC — Data Link

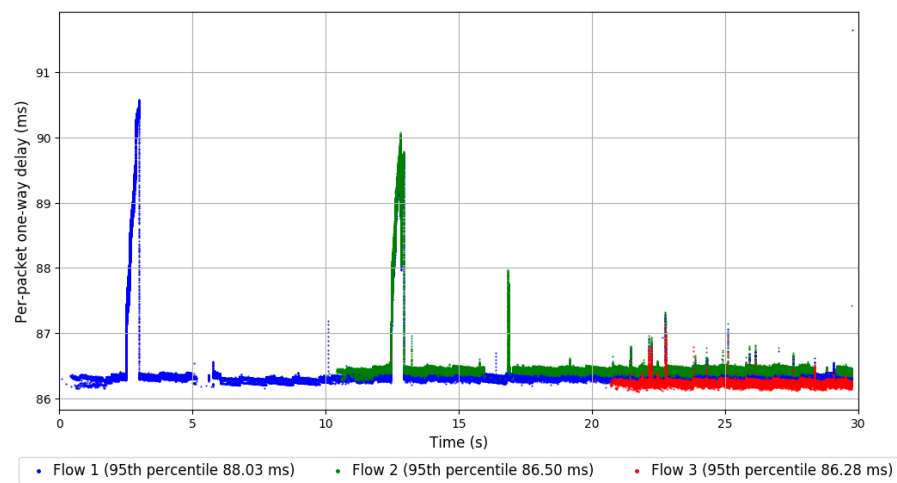
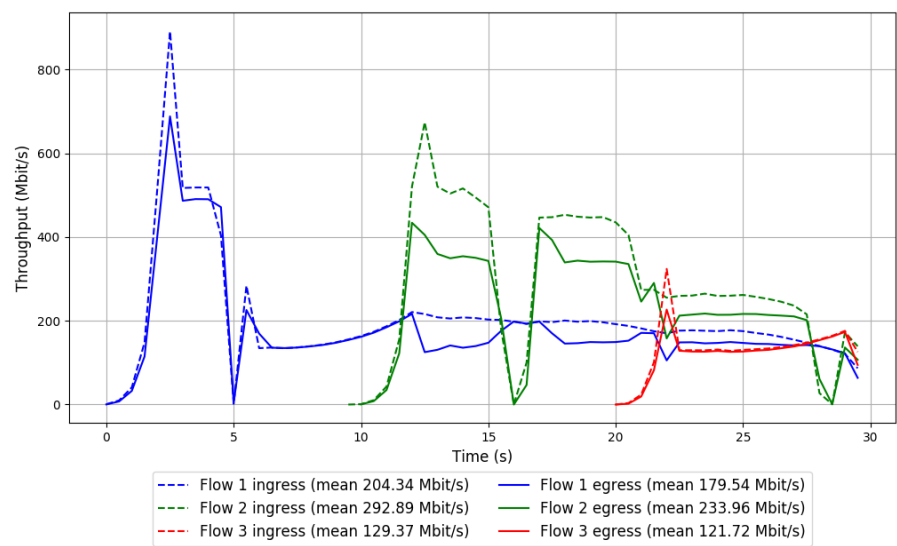


Run 6: Statistics of PCC

Start at: 2017-11-16 09:08:47
End at: 2017-11-16 09:09:17
Local clock offset: -0.133 ms
Remote clock offset: -3.668 ms

Below is generated by plot.py at 2017-11-16 14:17:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.40 Mbit/s
95th percentile per-packet one-way delay: 87.565 ms
Loss rate: 15.74%
-- Flow 1:
Average throughput: 179.54 Mbit/s
95th percentile per-packet one-way delay: 88.035 ms
Loss rate: 12.62%
-- Flow 2:
Average throughput: 233.96 Mbit/s
95th percentile per-packet one-way delay: 86.498 ms
Loss rate: 20.80%
-- Flow 3:
Average throughput: 121.72 Mbit/s
95th percentile per-packet one-way delay: 86.277 ms
Loss rate: 7.54%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 09:28:51

End at: 2017-11-16 09:29:21

Local clock offset: -0.104 ms

Remote clock offset: 0.988 ms

Below is generated by plot.py at 2017-11-16 14:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.24 Mbit/s

95th percentile per-packet one-way delay: 81.787 ms

Loss rate: 11.64%

-- Flow 1:

Average throughput: 310.76 Mbit/s

95th percentile per-packet one-way delay: 80.274 ms

Loss rate: 8.82%

-- Flow 2:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 80.085 ms

Loss rate: 21.74%

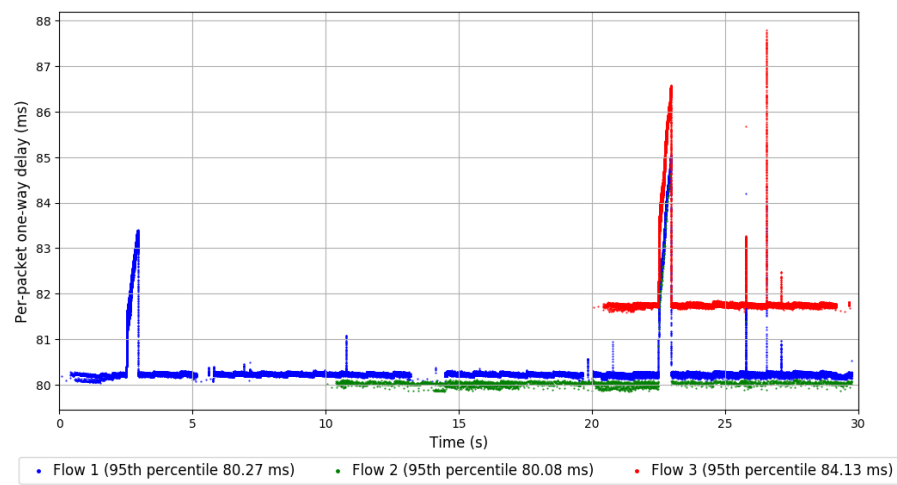
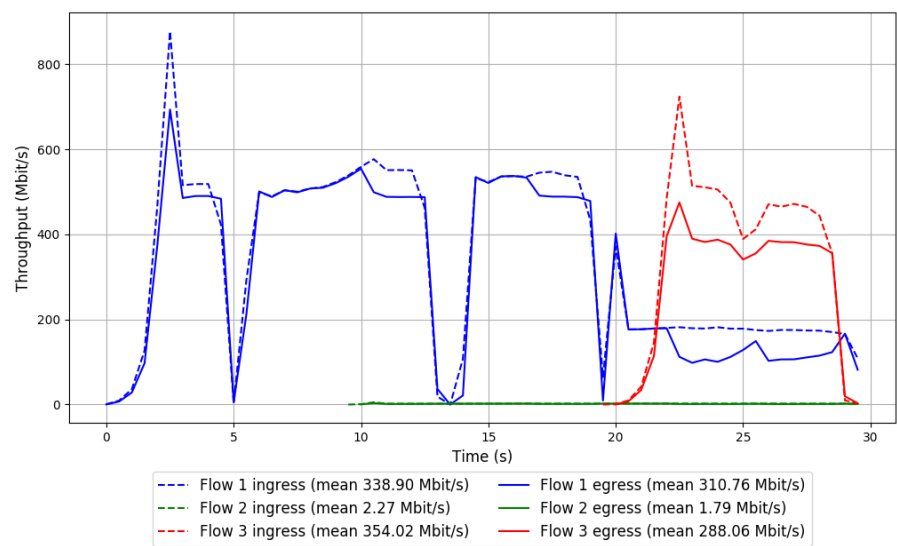
-- Flow 3:

Average throughput: 288.06 Mbit/s

95th percentile per-packet one-way delay: 84.133 ms

Loss rate: 19.76%

Run 7: Report of PCC — Data Link

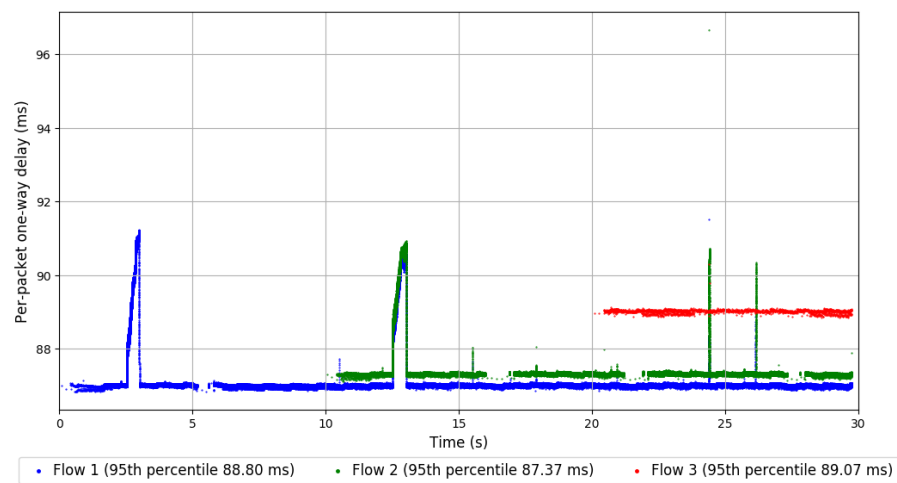
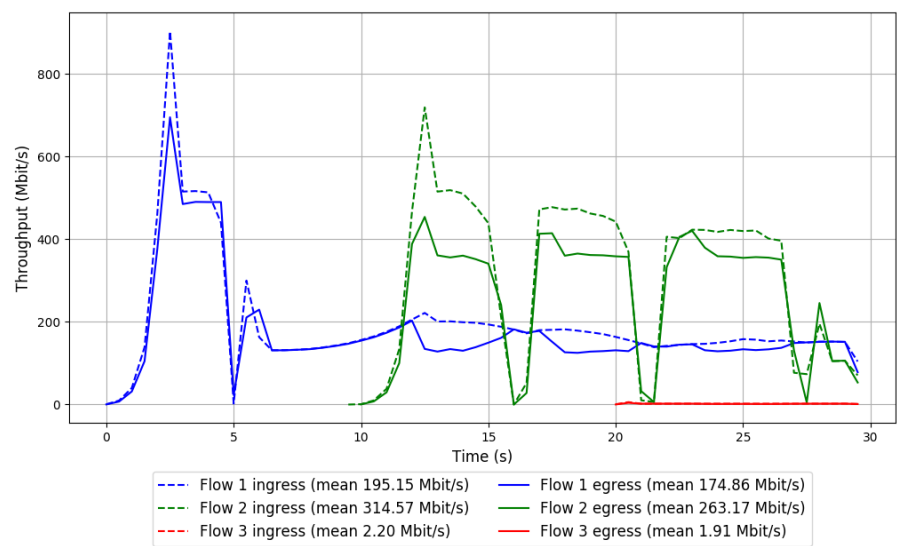


Run 8: Statistics of PCC

Start at: 2017-11-16 09:49:01
End at: 2017-11-16 09:49:31
Local clock offset: -0.094 ms
Remote clock offset: -4.461 ms

Below is generated by plot.py at 2017-11-16 14:17:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.10 Mbit/s
95th percentile per-packet one-way delay: 88.689 ms
Loss rate: 14.09%
-- Flow 1:
Average throughput: 174.86 Mbit/s
95th percentile per-packet one-way delay: 88.796 ms
Loss rate: 10.91%
-- Flow 2:
Average throughput: 263.17 Mbit/s
95th percentile per-packet one-way delay: 87.368 ms
Loss rate: 17.05%
-- Flow 3:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 89.073 ms
Loss rate: 14.80%

Run 8: Report of PCC — Data Link

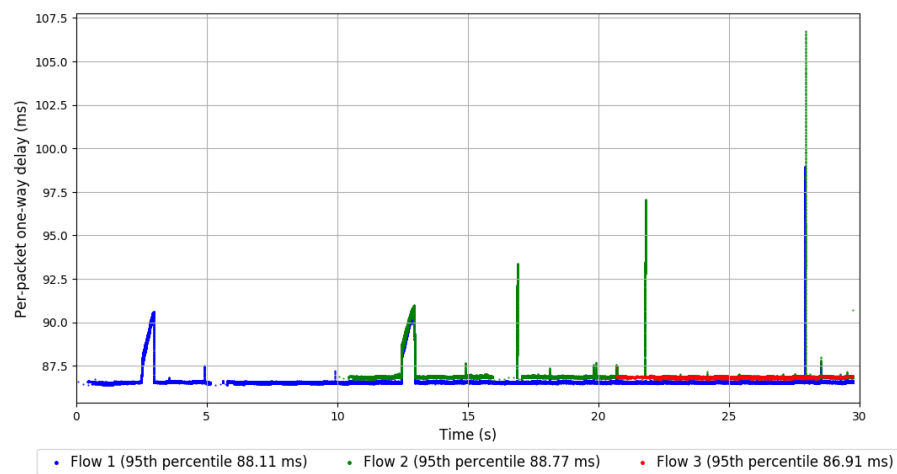
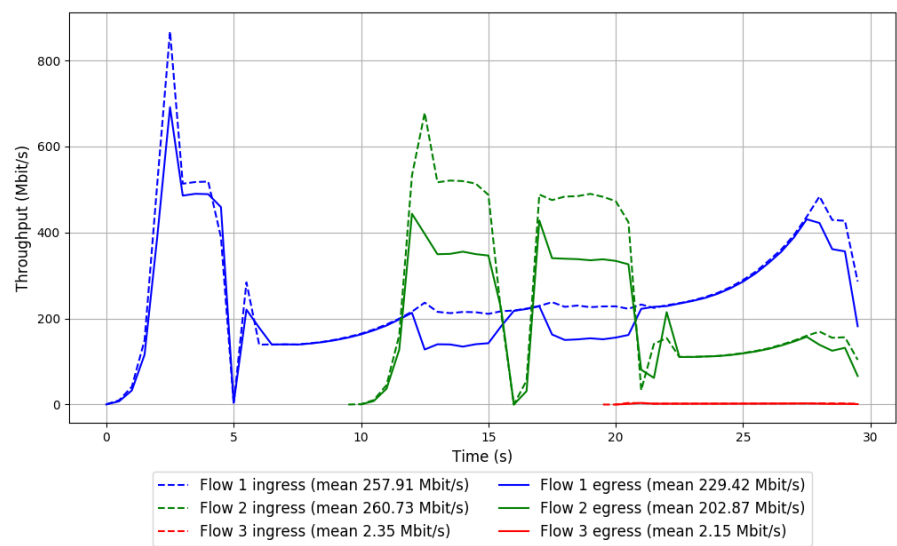


Run 9: Statistics of PCC

Start at: 2017-11-16 10:09:09
End at: 2017-11-16 10:09:39
Local clock offset: -0.014 ms
Remote clock offset: -4.004 ms

Below is generated by plot.py at 2017-11-16 14:22:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 364.69 Mbit/s
95th percentile per-packet one-way delay: 88.355 ms
Loss rate: 16.09%
-- Flow 1:
Average throughput: 229.42 Mbit/s
95th percentile per-packet one-way delay: 88.106 ms
Loss rate: 11.55%
-- Flow 2:
Average throughput: 202.87 Mbit/s
95th percentile per-packet one-way delay: 88.767 ms
Loss rate: 22.84%
-- Flow 3:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 86.907 ms
Loss rate: 12.27%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-16 10:29:09

End at: 2017-11-16 10:29:39

Local clock offset: 0.04 ms

Remote clock offset: -1.27 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.95 Mbit/s

95th percentile per-packet one-way delay: 85.399 ms

Loss rate: 18.93%

-- Flow 1:

Average throughput: 186.62 Mbit/s

95th percentile per-packet one-way delay: 86.945 ms

Loss rate: 10.76%

-- Flow 2:

Average throughput: 181.90 Mbit/s

95th percentile per-packet one-way delay: 81.858 ms

Loss rate: 15.31%

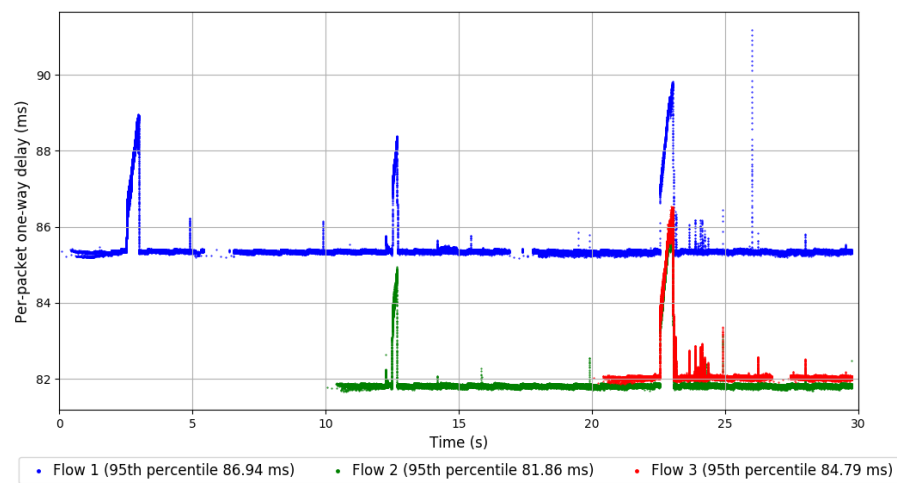
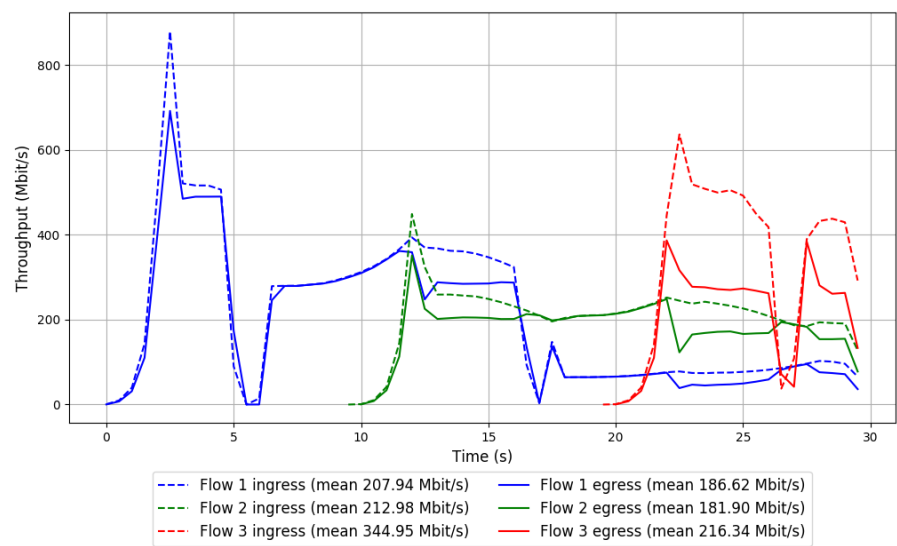
-- Flow 3:

Average throughput: 216.34 Mbit/s

95th percentile per-packet one-way delay: 84.789 ms

Loss rate: 38.35%

Run 10: Report of PCC — Data Link

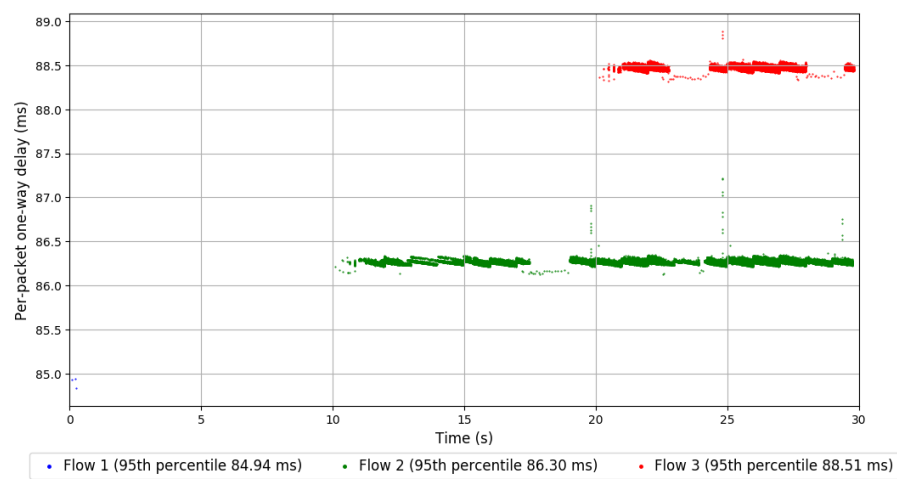
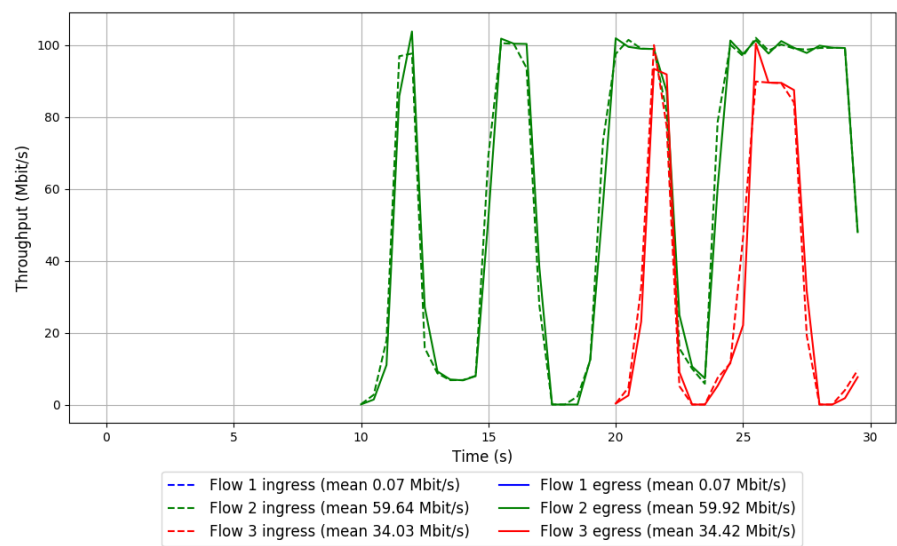


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 07:31:12
End at: 2017-11-16 07:31:42
Local clock offset: -0.538 ms
Remote clock offset: -6.309 ms

# Below is generated by plot.py at 2017-11-16 14:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 88.487 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 84.942 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.92 Mbit/s
95th percentile per-packet one-way delay: 86.298 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 88.508 ms
Loss rate: 0.62%
```


Run 1: Report of QUIC Cubic — Data Link

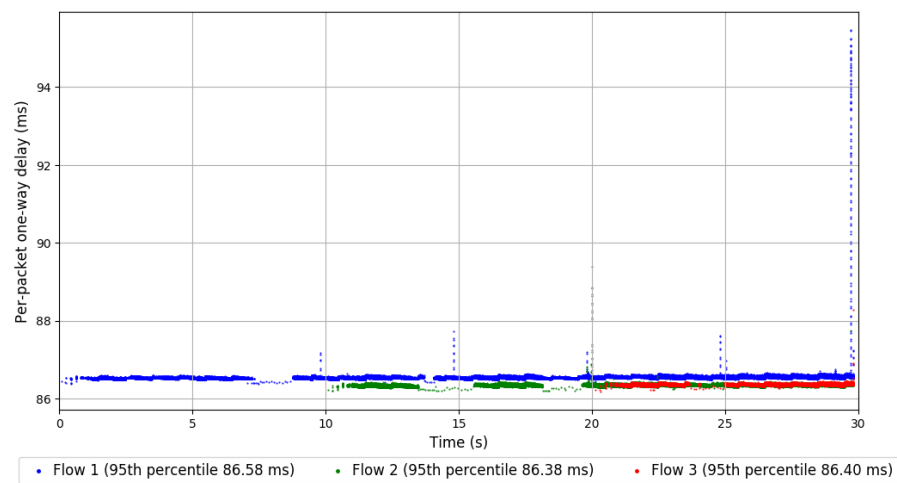
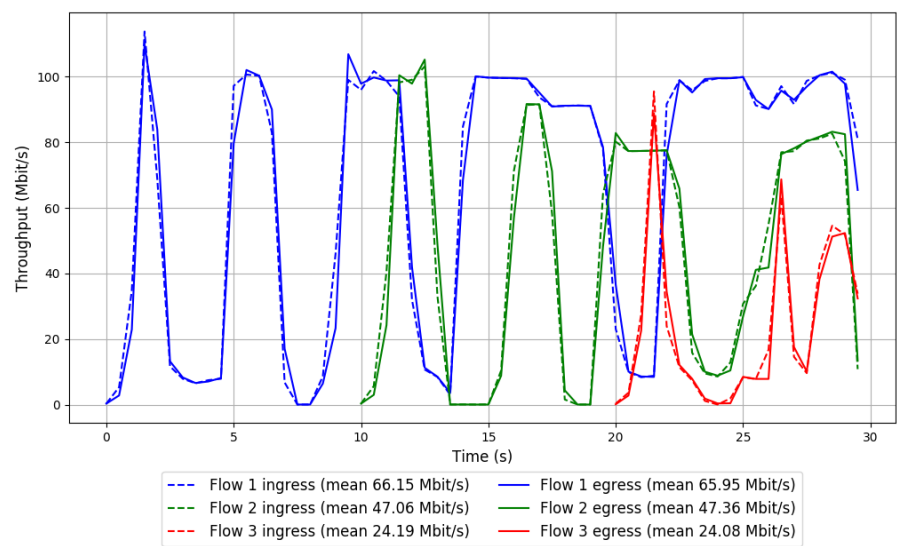


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 07:51:21
End at: 2017-11-16 07:51:51
Local clock offset: -0.433 ms
Remote clock offset: -5.578 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.19 Mbit/s
95th percentile per-packet one-way delay: 86.577 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 86.584 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 86.384 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 86.399 ms
Loss rate: 2.15%

Run 2: Report of QUIC Cubic — Data Link

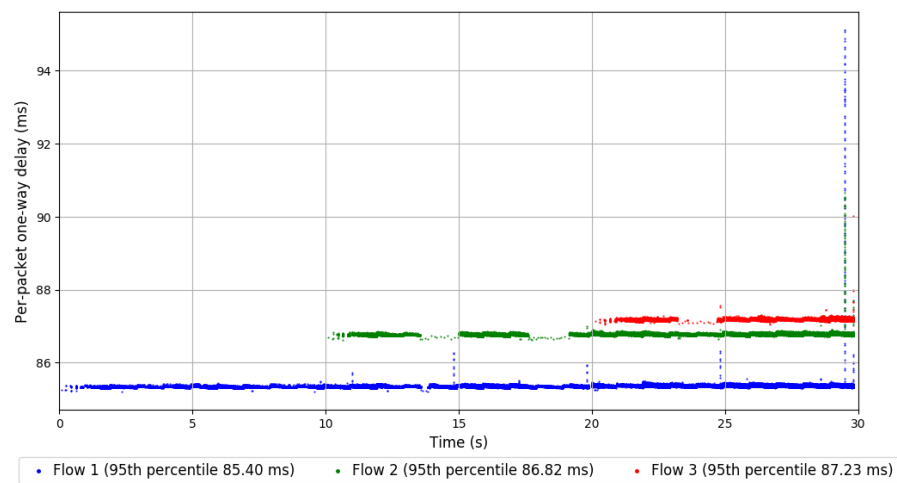
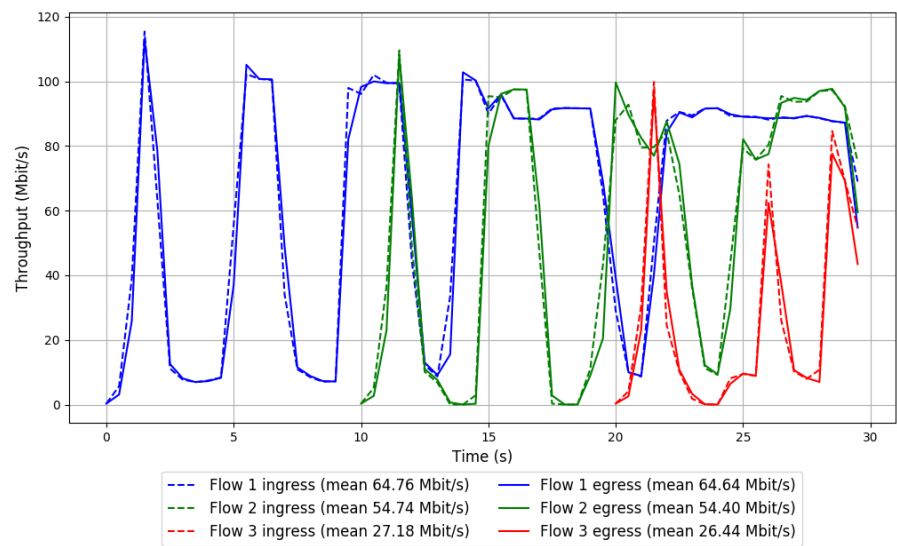


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 08:11:25
End at: 2017-11-16 08:11:55
Local clock offset: -0.332 ms
Remote clock offset: -4.996 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.31 Mbit/s
95th percentile per-packet one-way delay: 87.176 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 85.402 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 54.40 Mbit/s
95th percentile per-packet one-way delay: 86.820 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 26.44 Mbit/s
95th percentile per-packet one-way delay: 87.230 ms
Loss rate: 4.36%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 08:31:31

End at: 2017-11-16 08:32:01

Local clock offset: -0.266 ms

Remote clock offset: -0.75 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.40 Mbit/s

95th percentile per-packet one-way delay: 84.646 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 67.37 Mbit/s

95th percentile per-packet one-way delay: 83.257 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 58.42 Mbit/s

95th percentile per-packet one-way delay: 83.280 ms

Loss rate: 1.42%

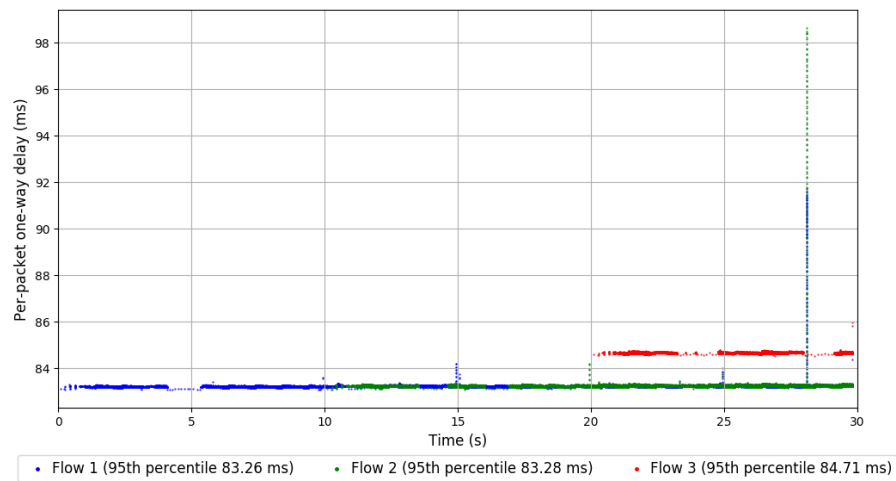
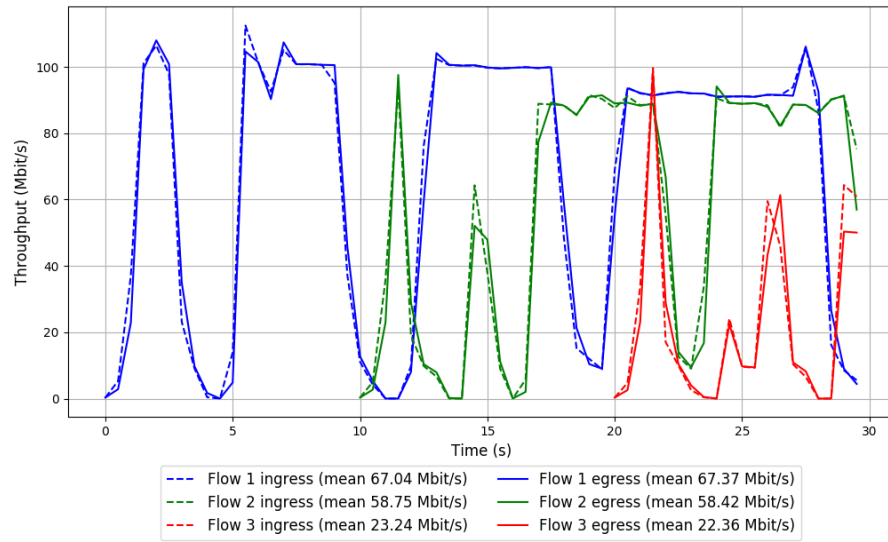
-- Flow 3:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 84.706 ms

Loss rate: 5.43%

Run 4: Report of QUIC Cubic — Data Link

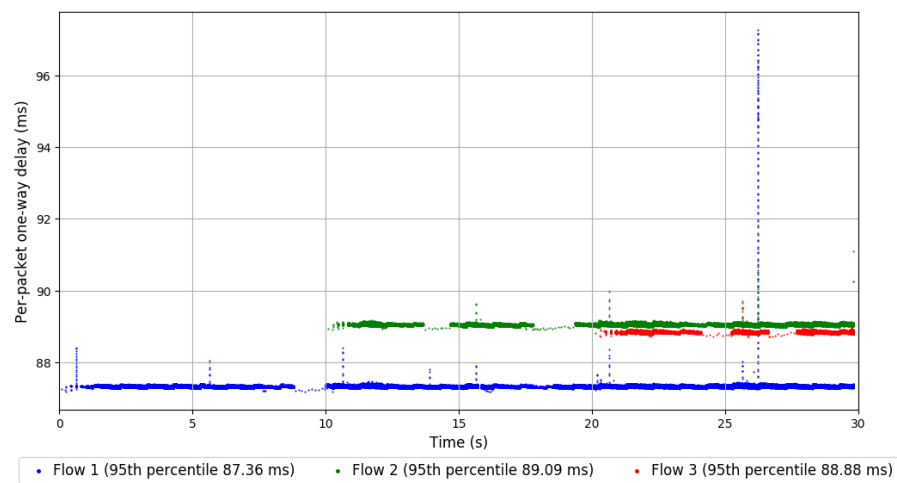
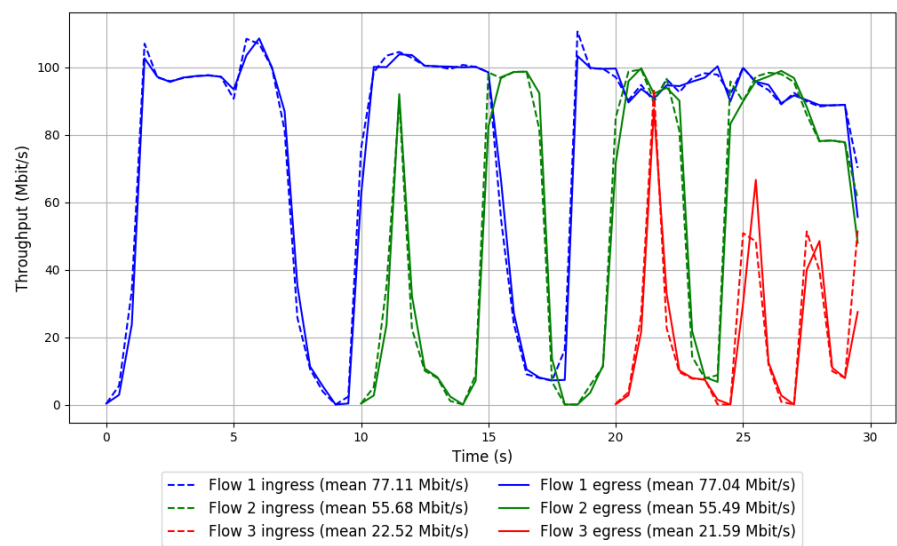


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 08:51:32
End at: 2017-11-16 08:52:02
Local clock offset: -0.2 ms
Remote clock offset: -4.927 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 120.87 Mbit/s
95th percentile per-packet one-way delay: 89.072 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 87.361 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 55.49 Mbit/s
95th percentile per-packet one-way delay: 89.090 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 88.881 ms
Loss rate: 5.79%

Run 5: Report of QUIC Cubic — Data Link

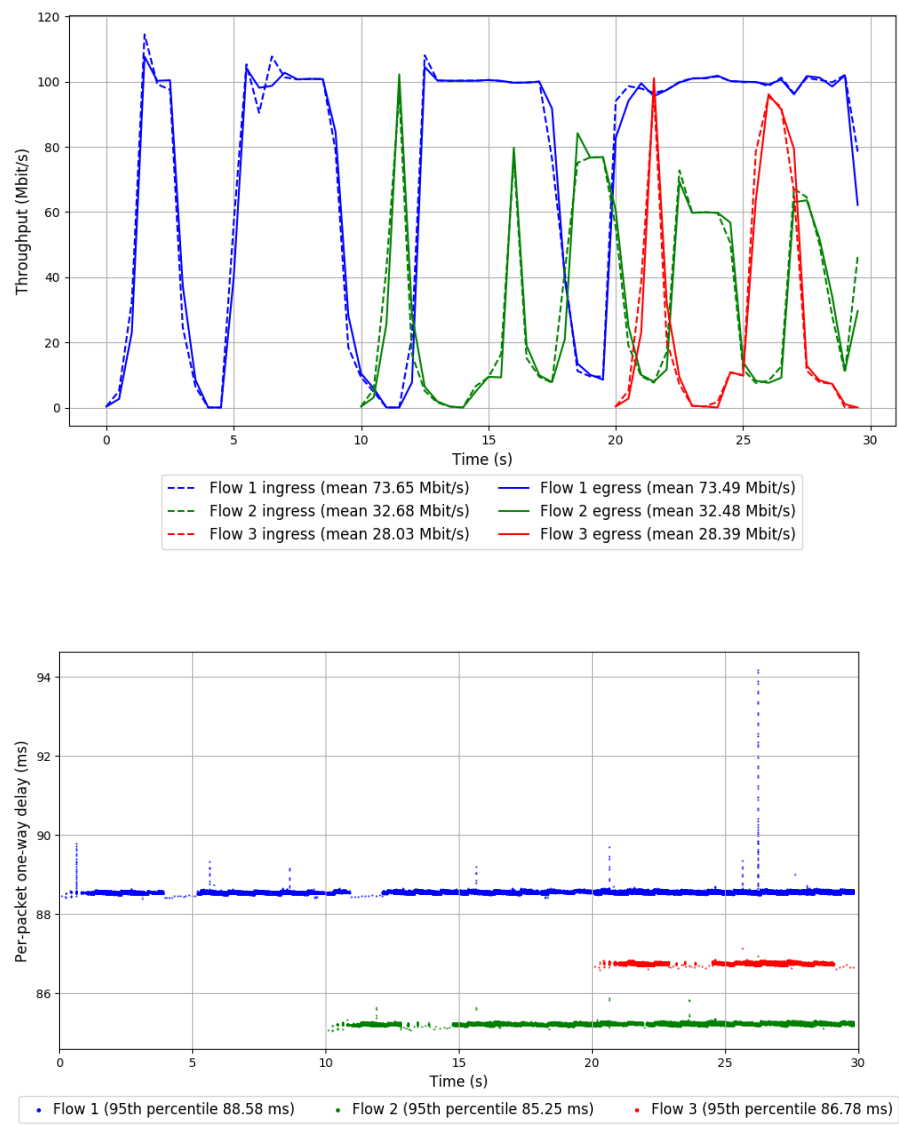


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 09:11:41
End at: 2017-11-16 09:12:11
Local clock offset: -0.215 ms
Remote clock offset: -4.111 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.30 Mbit/s
95th percentile per-packet one-way delay: 88.577 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 73.49 Mbit/s
95th percentile per-packet one-way delay: 88.582 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 85.255 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 86.785 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

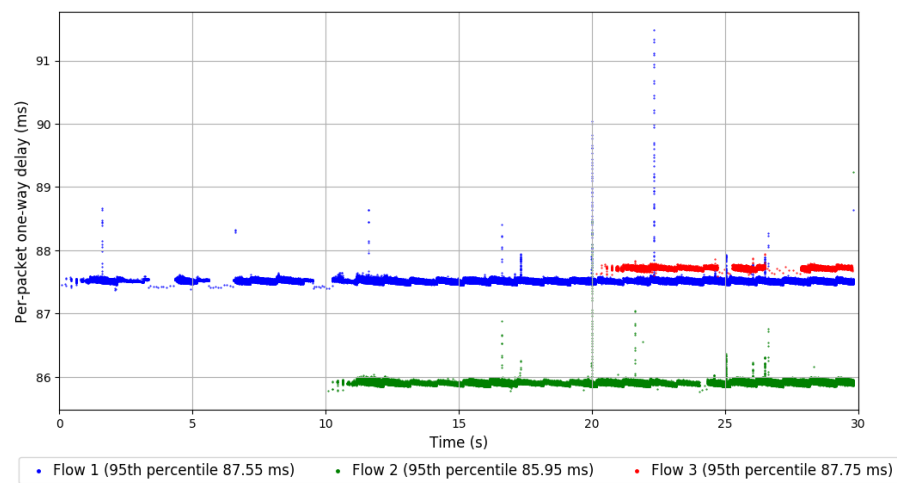
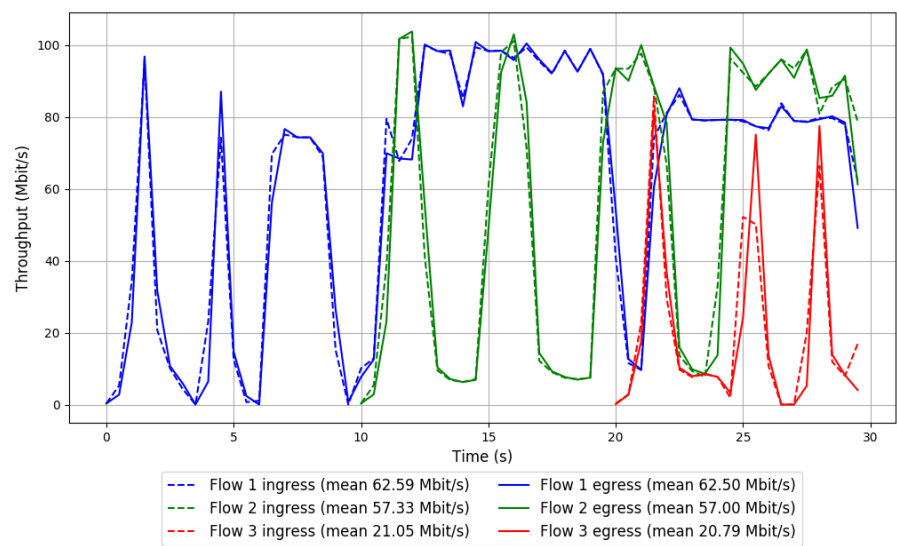


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 09:31:44
End at: 2017-11-16 09:32:14
Local clock offset: -0.084 ms
Remote clock offset: -3.001 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.01 Mbit/s
95th percentile per-packet one-way delay: 87.699 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 87.552 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 85.949 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 87.755 ms
Loss rate: 3.44%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 09:51:53

End at: 2017-11-16 09:52:23

Local clock offset: -0.015 ms

Remote clock offset: 0.784 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.56 Mbit/s

95th percentile per-packet one-way delay: 83.652 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 65.79 Mbit/s

95th percentile per-packet one-way delay: 83.659 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 55.34 Mbit/s

95th percentile per-packet one-way delay: 80.534 ms

Loss rate: 1.39%

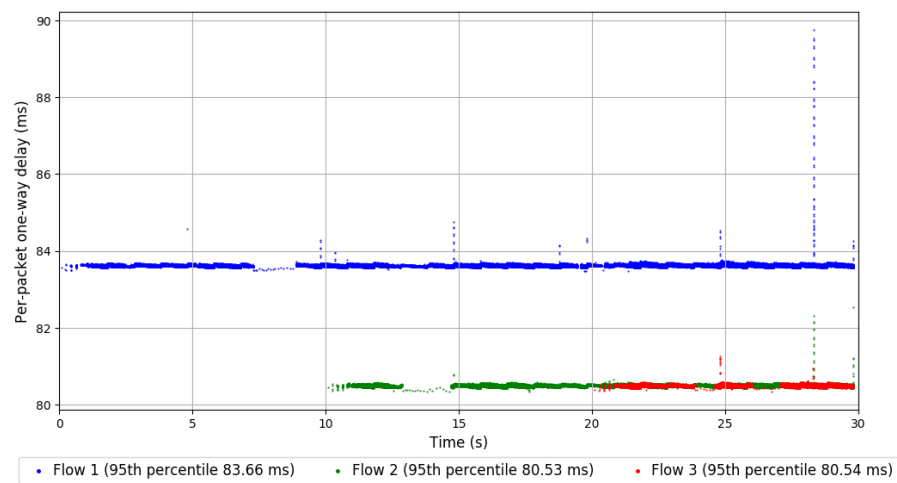
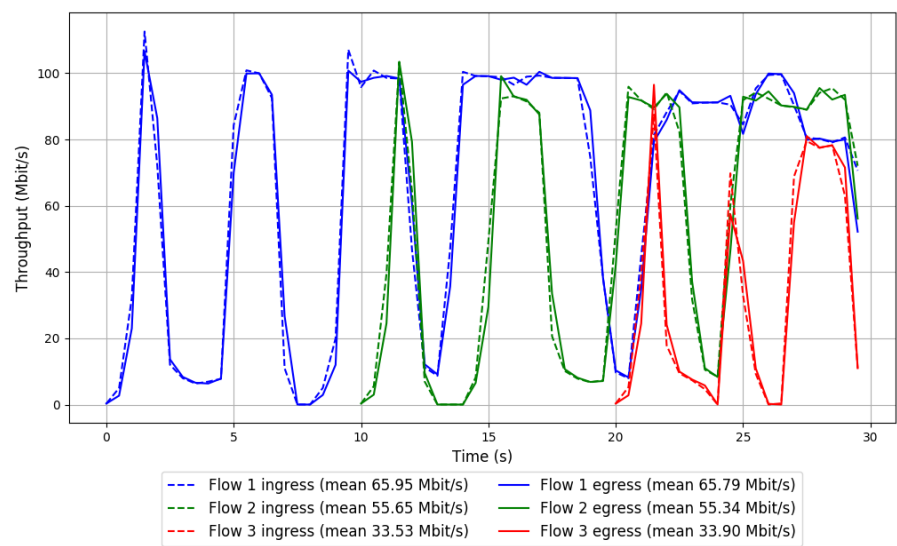
-- Flow 3:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 80.538 ms

Loss rate: 0.61%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 10:12:02

End at: 2017-11-16 10:12:32

Local clock offset: 0.024 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.39 Mbit/s

95th percentile per-packet one-way delay: 82.579 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 82.579 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 82.584 ms

Loss rate: 1.54%

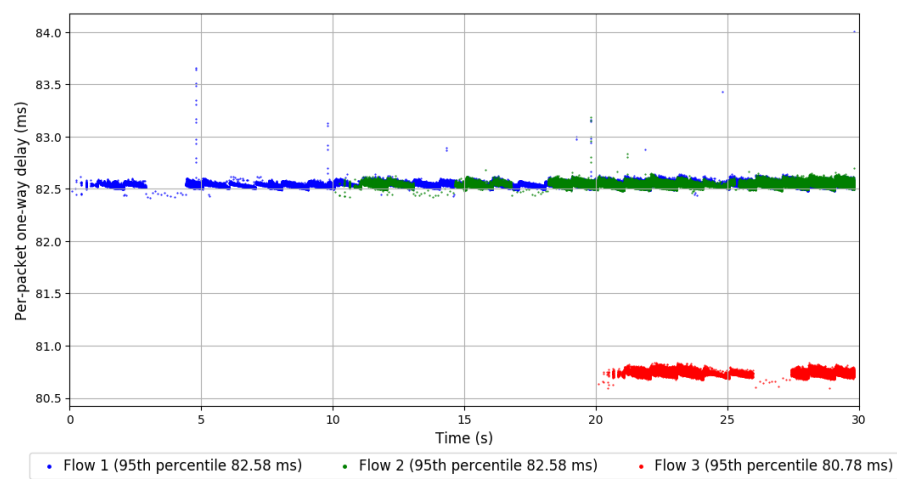
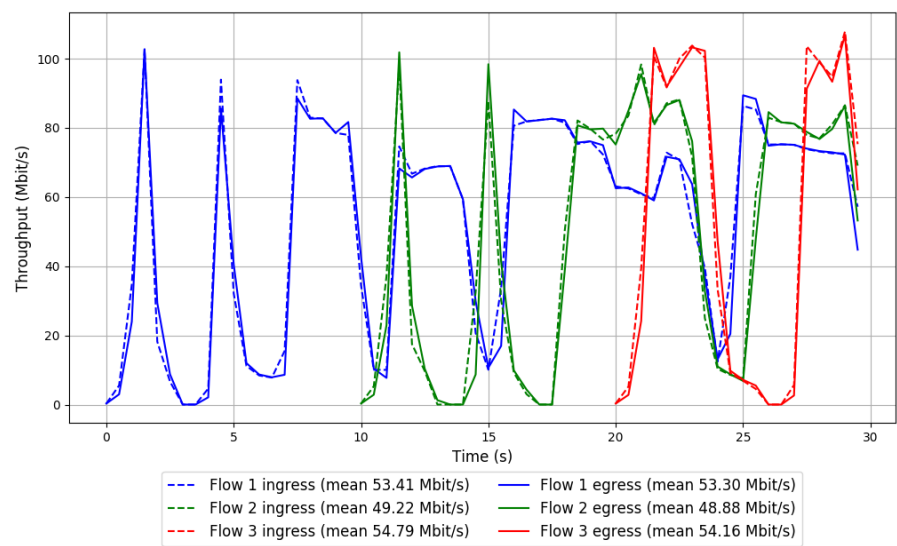
-- Flow 3:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 80.781 ms

Loss rate: 2.82%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 10:32:03

End at: 2017-11-16 10:32:33

Local clock offset: 0.05 ms

Remote clock offset: -5.33 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.92 Mbit/s

95th percentile per-packet one-way delay: 87.821 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 60.17 Mbit/s

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

Loss rate: 0.92%

-- Flow 2:

Average throughput: 53.86 Mbit/s

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

Loss rate: 1.16%

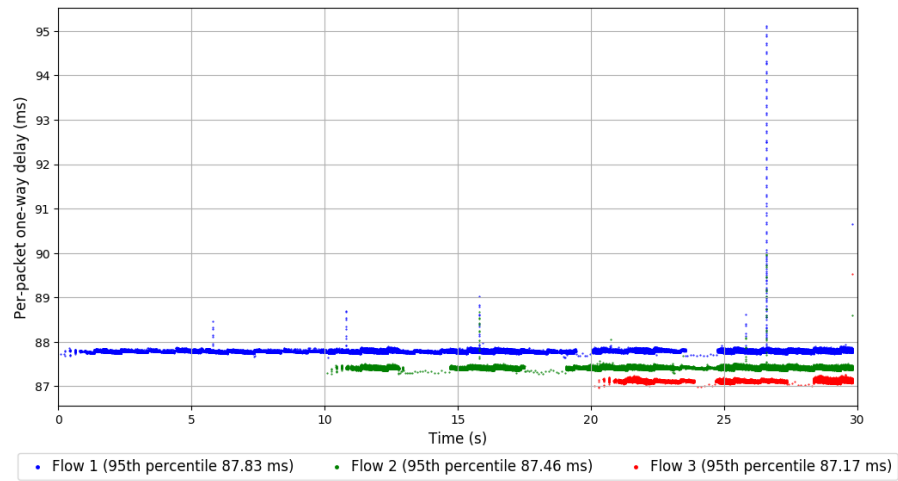
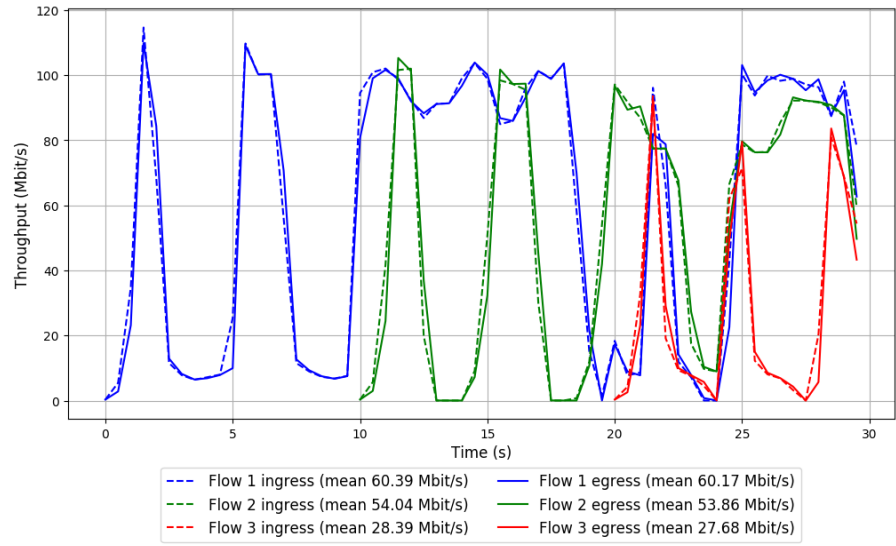
-- Flow 3:

Average throughput: 27.68 Mbit/s

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

Loss rate: 4.15%

Run 10: Report of QUIC Cubic — Data Link

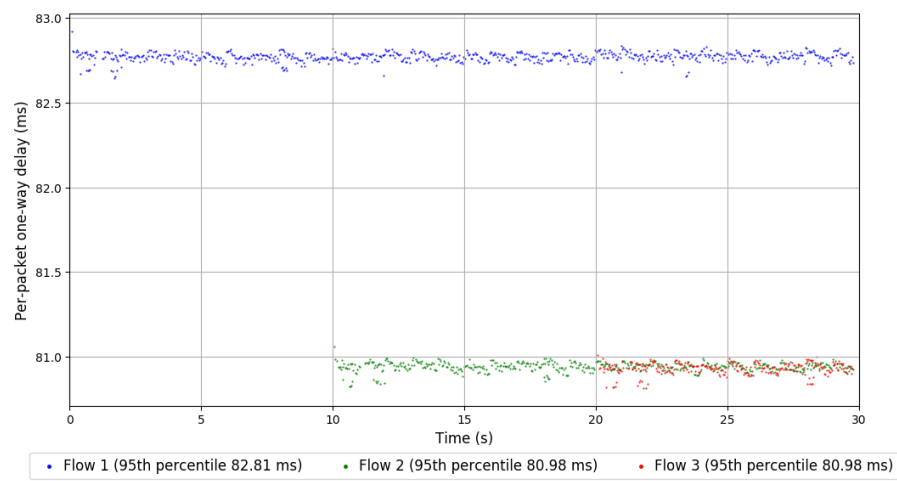
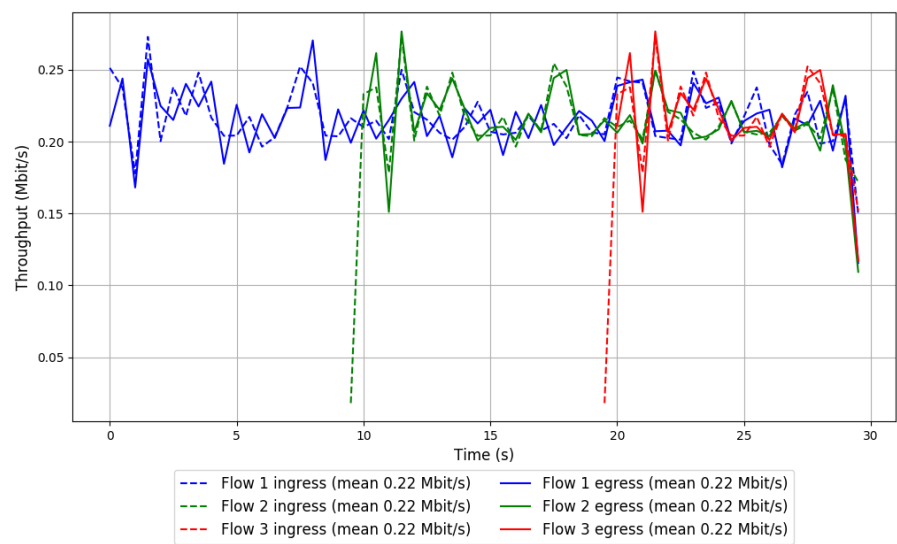


```
Run 1: Statistics of SReAM

Start at: 2017-11-16 07:22:26
End at: 2017-11-16 07:22:56
Local clock offset: -0.534 ms
Remote clock offset: -2.399 ms

# Below is generated by plot.py at 2017-11-16 14:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.803 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.810 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.979 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.978 ms
Loss rate: 1.53%
```

Run 1: Report of SReAM — Data Link

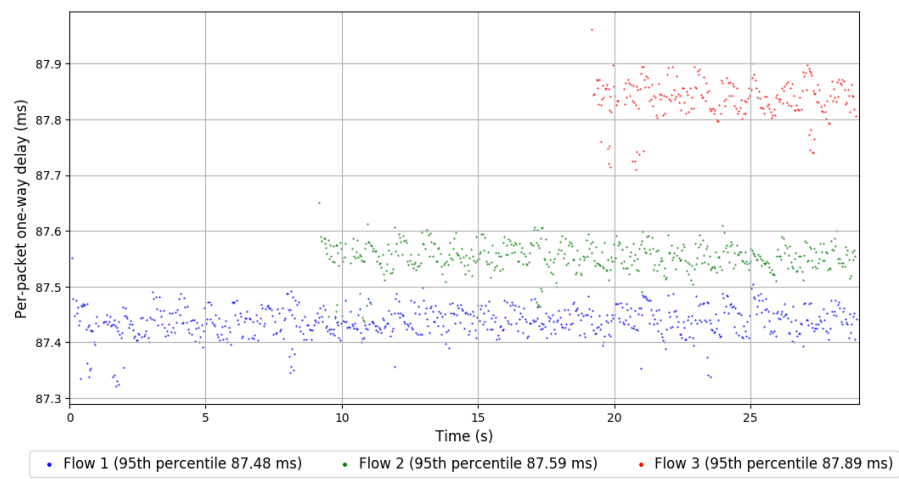
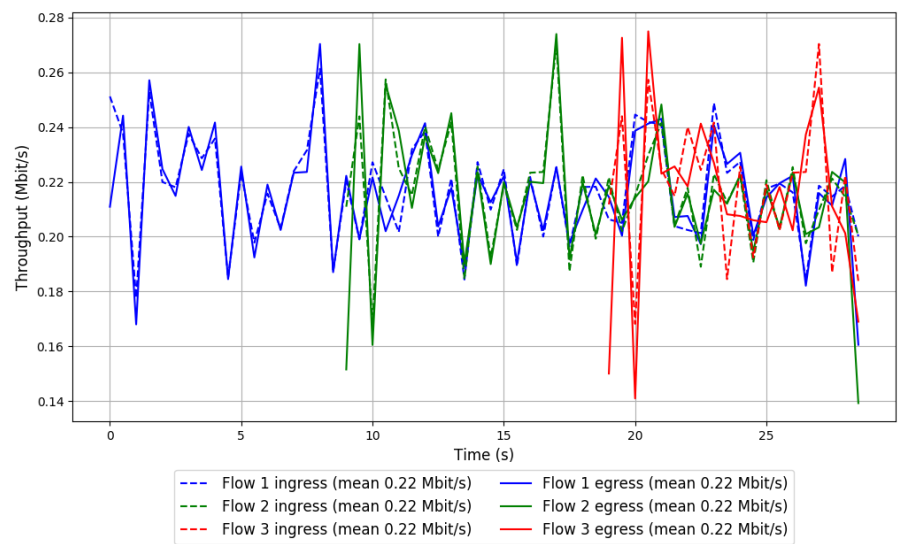


Run 2: Statistics of SReAM

Start at: 2017-11-16 07:42:35
End at: 2017-11-16 07:43:05
Local clock offset: -0.464 ms
Remote clock offset: -7.001 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.856 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.478 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.591 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.886 ms
Loss rate: 1.53%

Run 2: Report of SReAM — Data Link

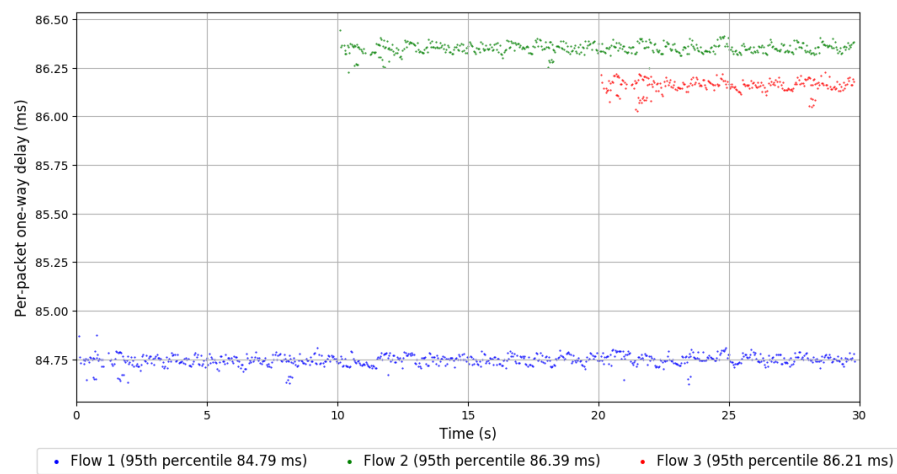
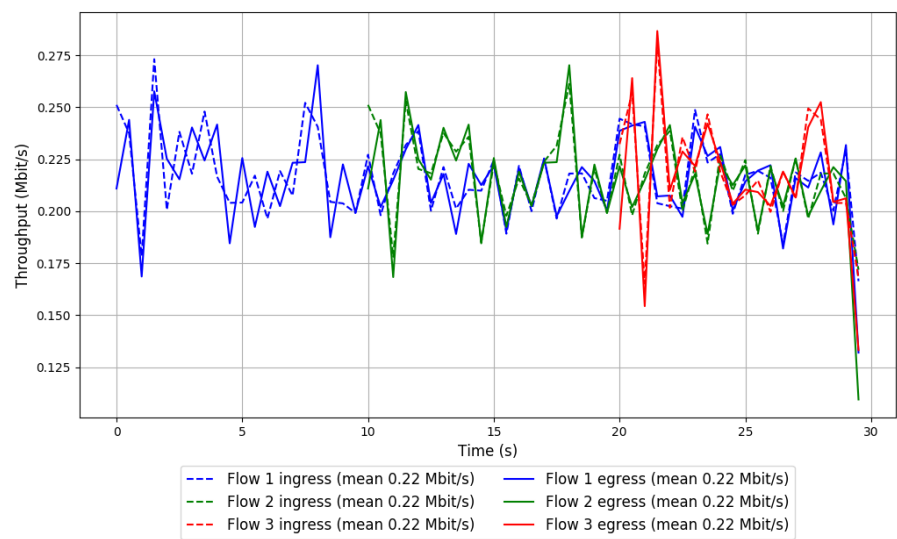


Run 3: Statistics of SReAM

Start at: 2017-11-16 08:02:36
End at: 2017-11-16 08:03:06
Local clock offset: -0.455 ms
Remote clock offset: -4.828 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.378 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.787 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.390 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.206 ms
Loss rate: 1.52%

Run 3: Report of SReAM — Data Link

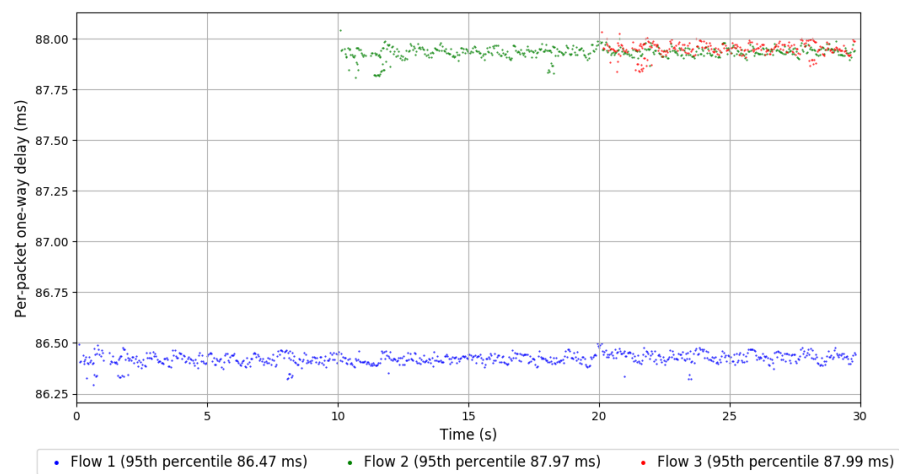
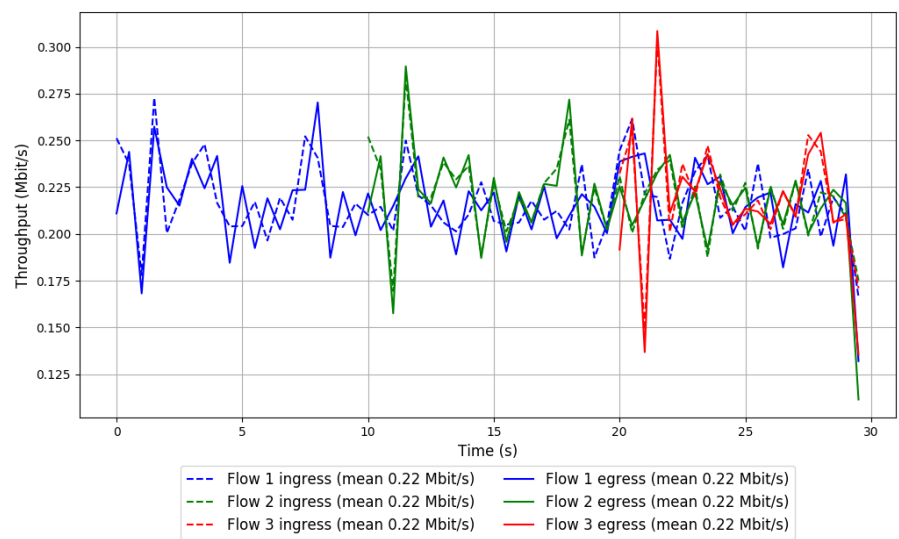


Run 4: Statistics of SReAM

Start at: 2017-11-16 08:22:41
End at: 2017-11-16 08:23:11
Local clock offset: -0.379 ms
Remote clock offset: -4.077 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.976 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.465 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.974 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.994 ms
Loss rate: 1.53%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-16 08:42:48

End at: 2017-11-16 08:43:18

Local clock offset: -0.238 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 84.118 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.125 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.799 ms

Loss rate: 1.05%

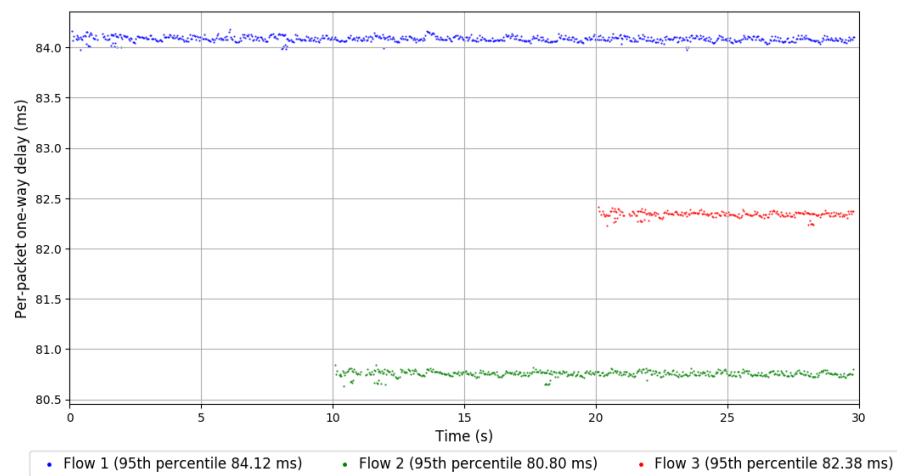
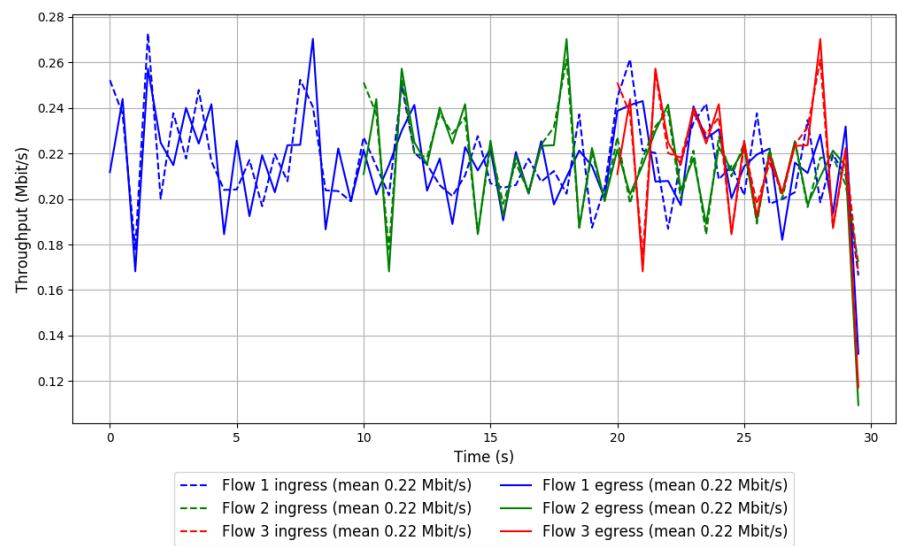
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.378 ms

Loss rate: 1.87%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-16 09:02:51

End at: 2017-11-16 09:03:21

Local clock offset: -0.163 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 84.228 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.843 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.245 ms

Loss rate: 1.06%

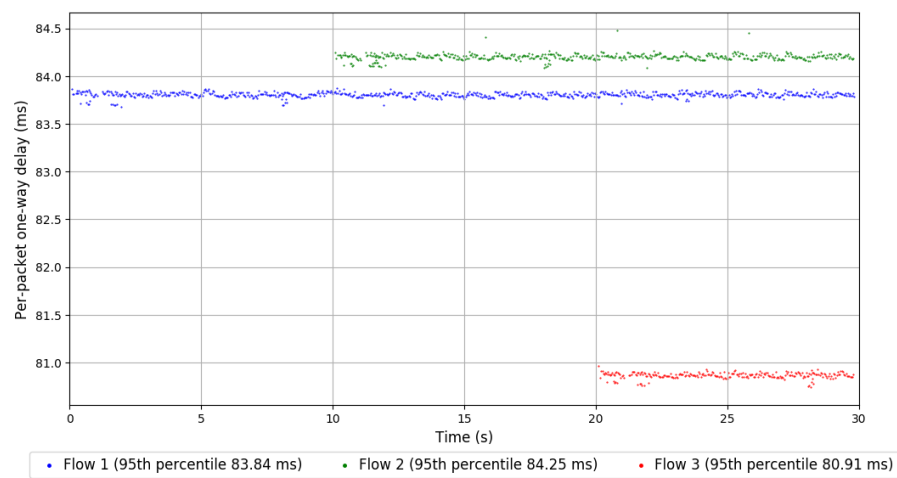
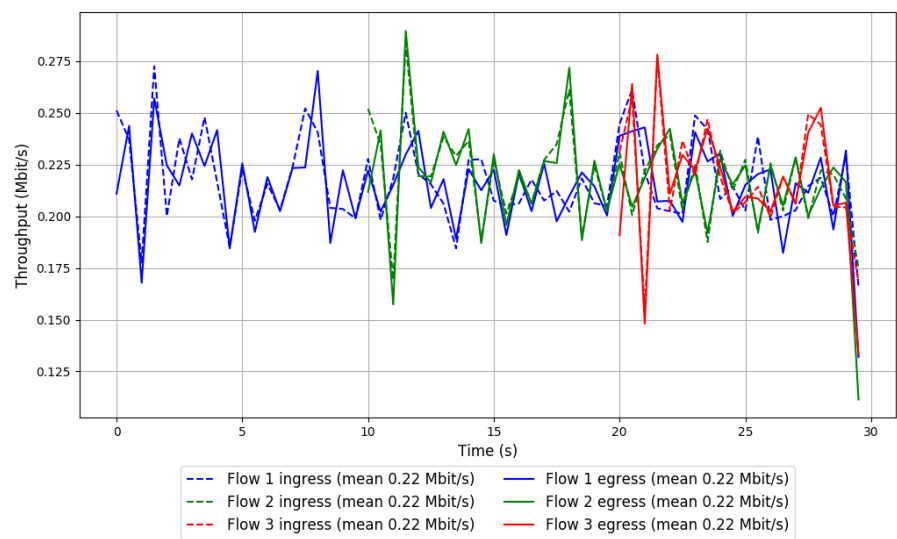
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.906 ms

Loss rate: 1.53%

Run 6: Report of SReAM — Data Link

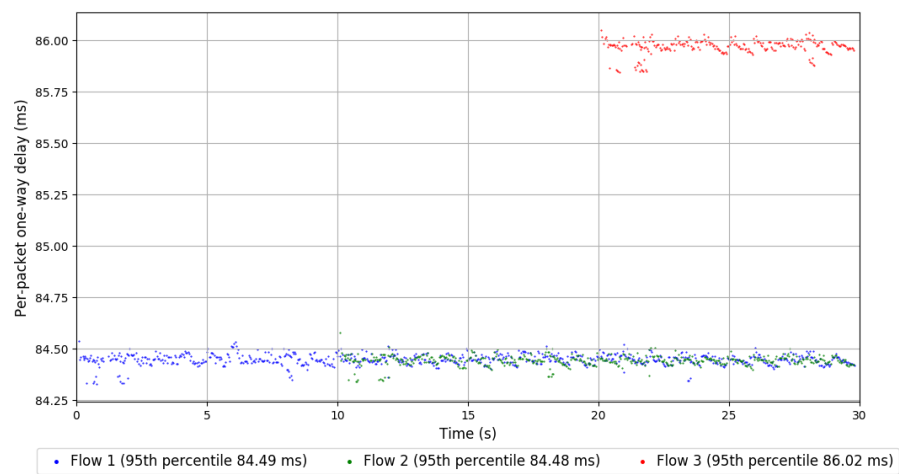
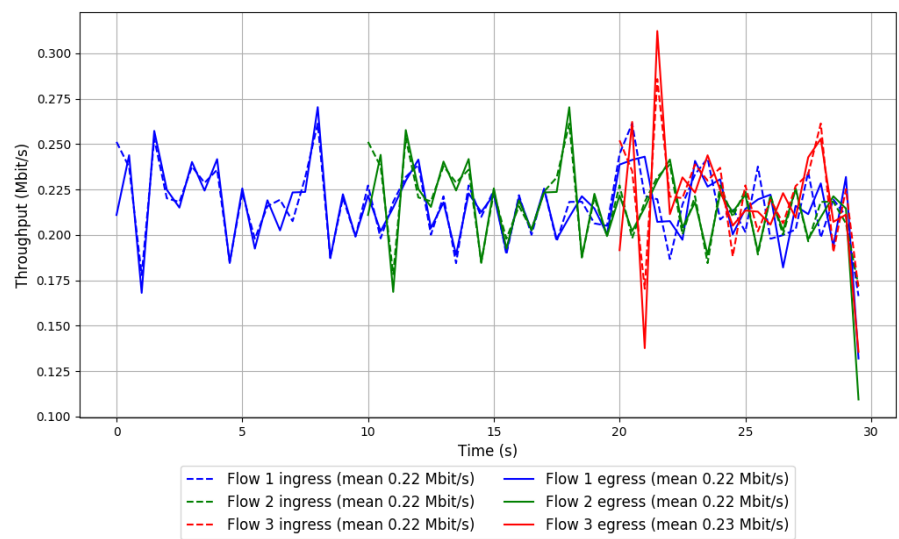


Run 7: Statistics of SReAM

Start at: 2017-11-16 09:22:55
End at: 2017-11-16 09:23:25
Local clock offset: -0.096 ms
Remote clock offset: -3.046 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.988 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.490 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.479 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.019 ms
Loss rate: 1.88%

Run 7: Report of SReAM — Data Link

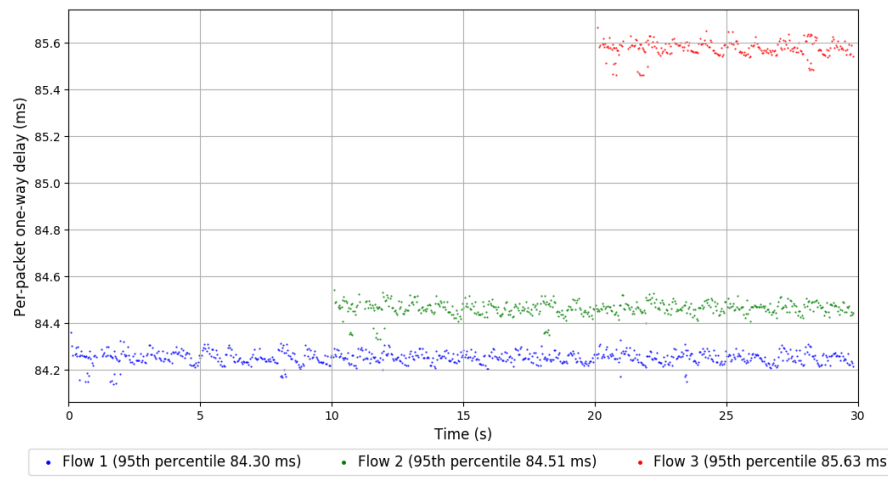
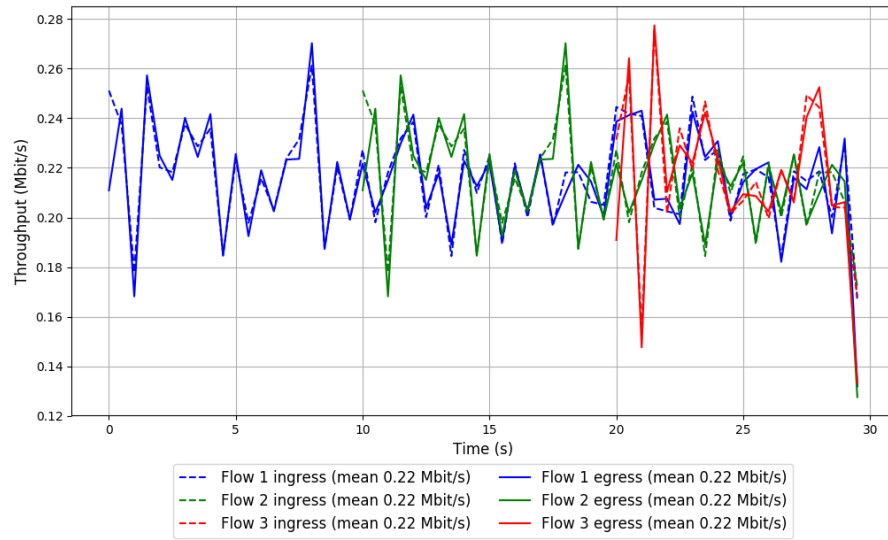


Run 8: Statistics of SReAM

Start at: 2017-11-16 09:43:06
End at: 2017-11-16 09:43:36
Local clock offset: -0.029 ms
Remote clock offset: -3.136 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.594 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.296 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.509 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.628 ms
Loss rate: 1.53%

Run 8: Report of SReAM — Data Link

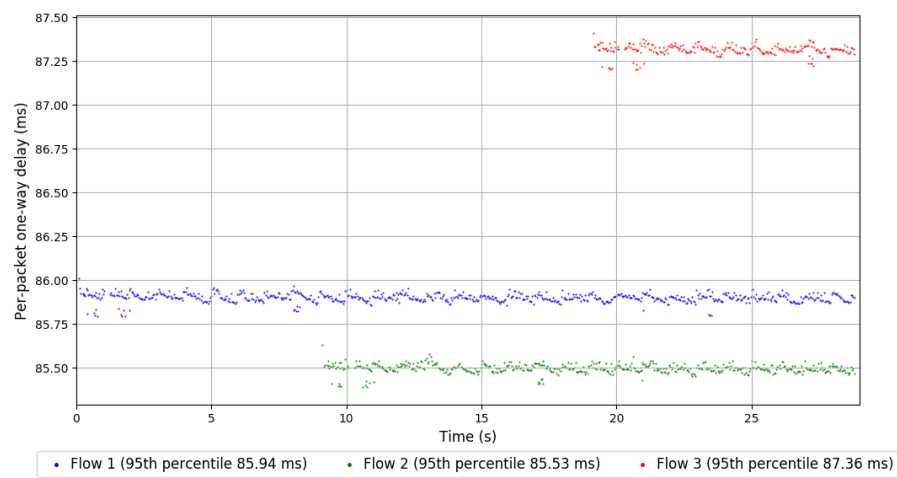
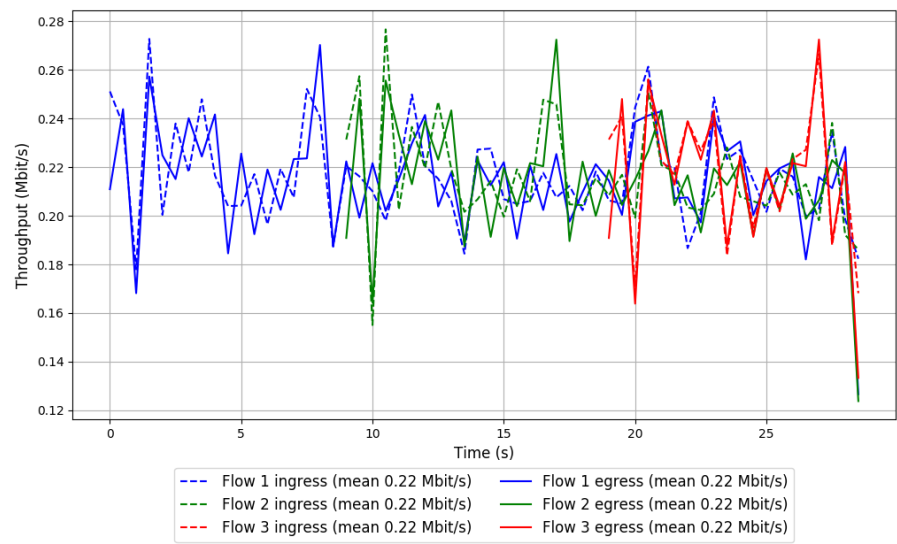


Run 9: Statistics of SReAM

Start at: 2017-11-16 10:03:15
End at: 2017-11-16 10:03:45
Local clock offset: -0.06 ms
Remote clock offset: -4.812 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.328 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.937 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.533 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.358 ms
Loss rate: 1.53%

Run 9: Report of SReAM — Data Link

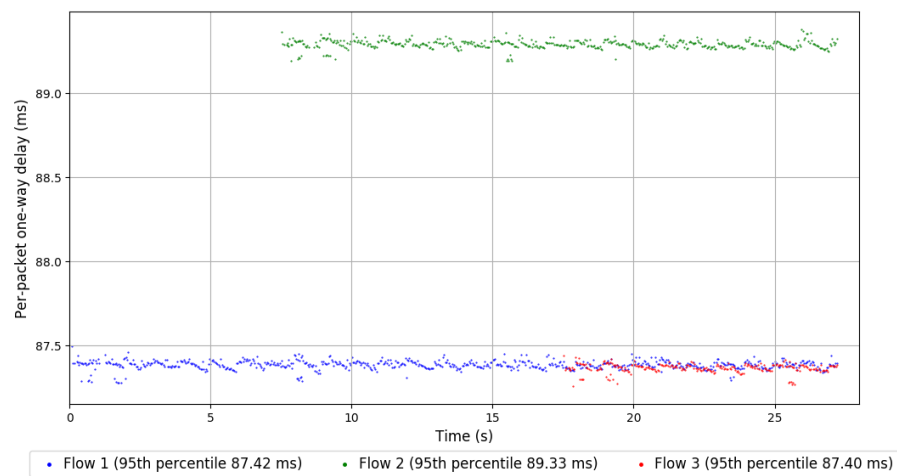
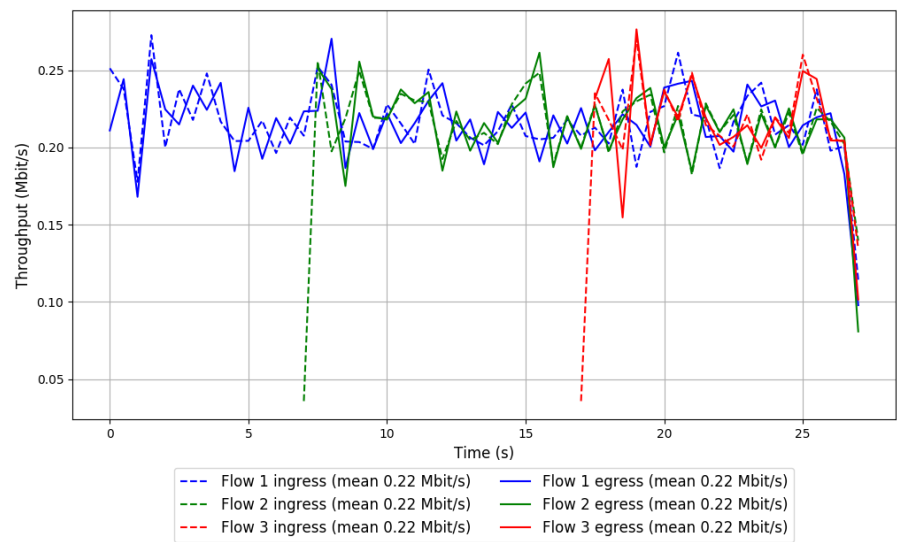


Run 10: Statistics of SReAM

Start at: 2017-11-16 10:23:17
End at: 2017-11-16 10:23:47
Local clock offset: -0.03 ms
Remote clock offset: -5.162 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 89.313 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.424 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.329 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.399 ms
Loss rate: 1.53%

Run 10: Report of SReAM — Data Link

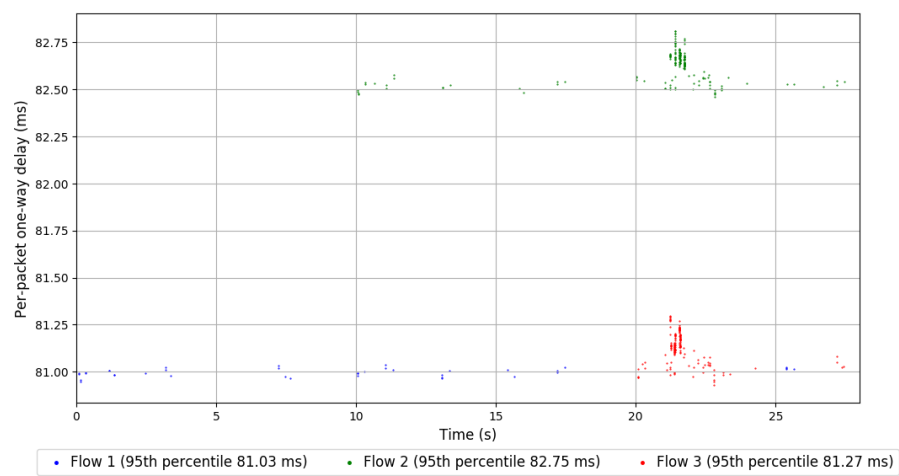
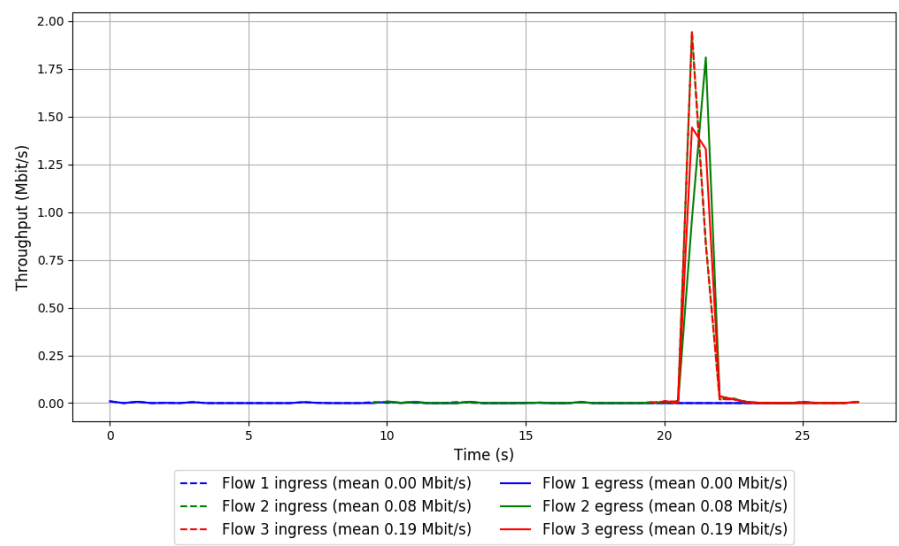


Run 1: Statistics of WebRTC media

Start at: 2017-11-16 07:19:42
End at: 2017-11-16 07:20:12
Local clock offset: -0.557 ms
Remote clock offset: -2.451 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 82.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.026 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 82.747 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 81.268 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

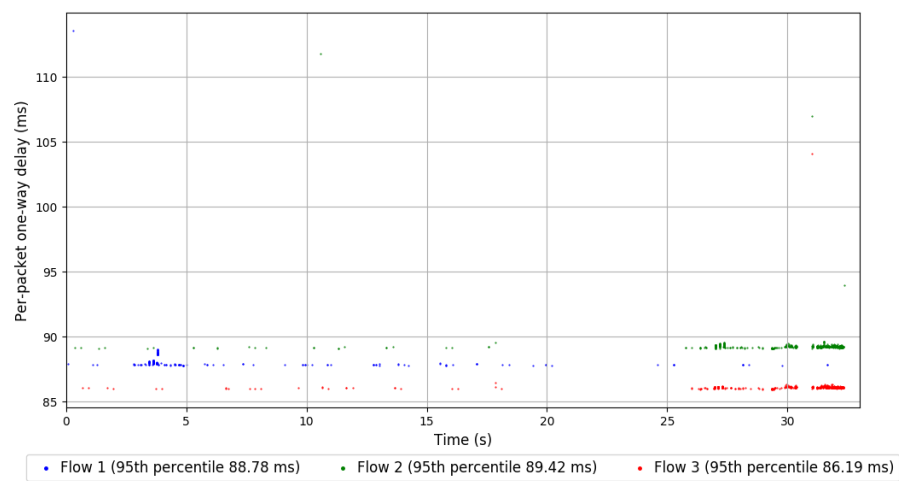
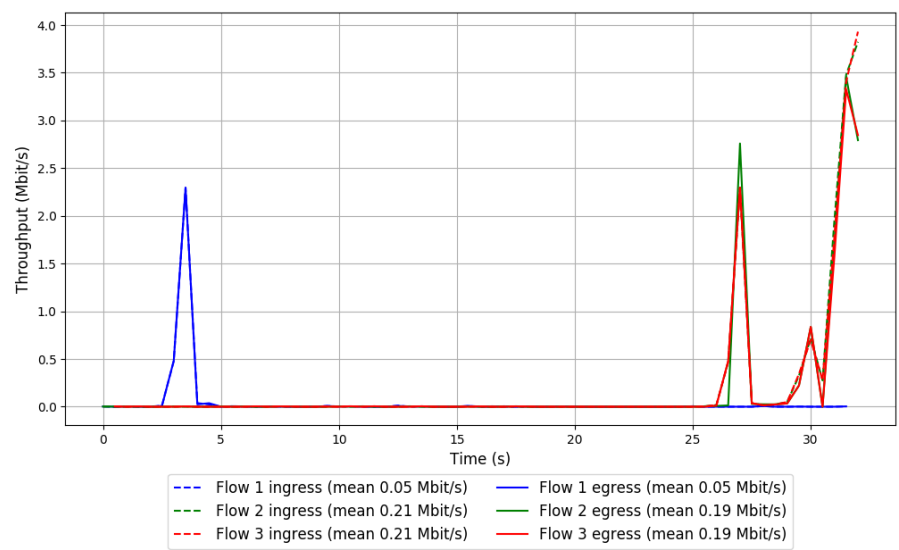


Run 2: Statistics of WebRTC media

Start at: 2017-11-16 07:39:52
End at: 2017-11-16 07:40:22
Local clock offset: -0.468 ms
Remote clock offset: -7.081 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 89.334 ms
Loss rate: 10.75%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 88.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 89.415 ms
Loss rate: 11.60%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 86.186 ms
Loss rate: 12.25%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 07:59:52

End at: 2017-11-16 08:00:22

Local clock offset: -0.403 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 83.088 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 80.070 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 81.207 ms

Loss rate: 0.81%

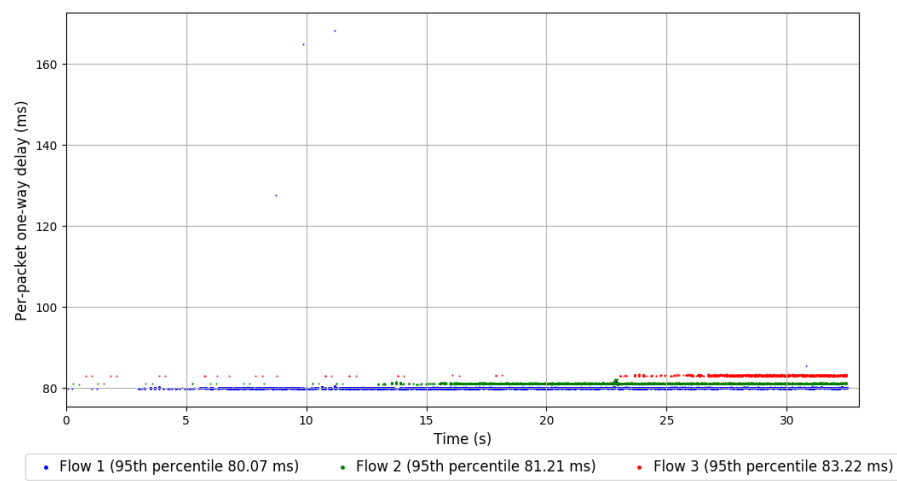
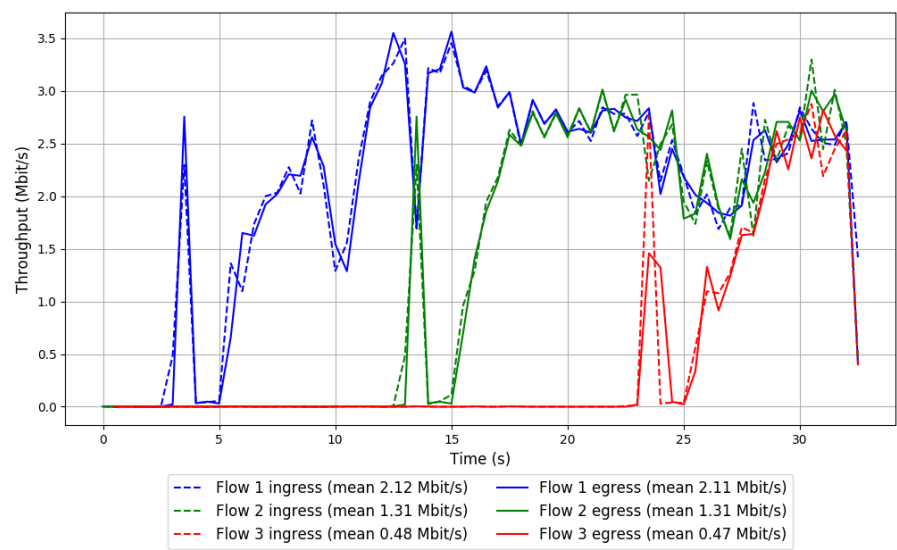
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 83.222 ms

Loss rate: 2.42%

Run 3: Report of WebRTC media — Data Link

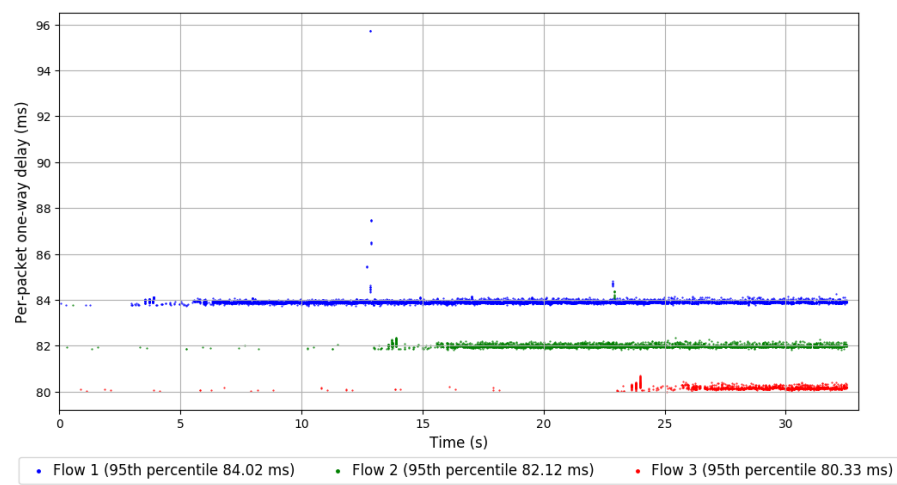
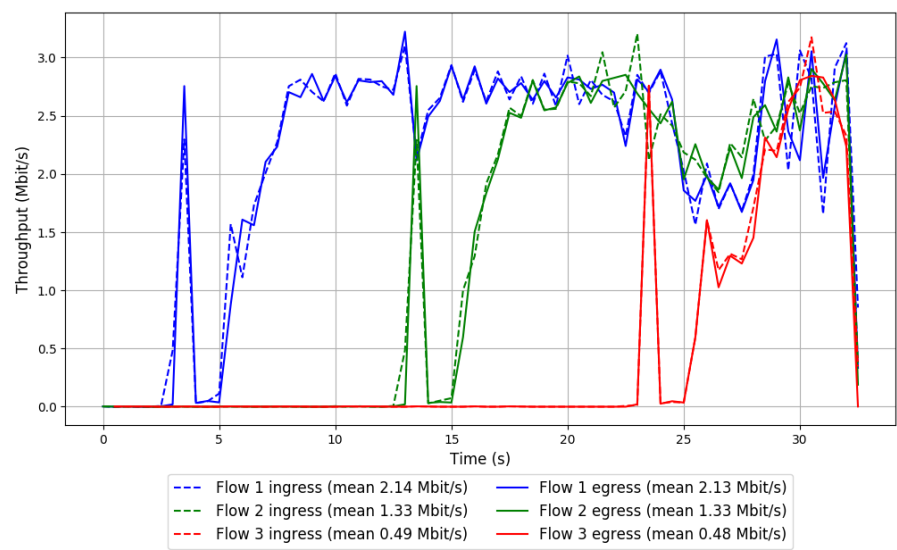


Run 4: Statistics of WebRTC media

Start at: 2017-11-16 08:19:57
End at: 2017-11-16 08:20:27
Local clock offset: -0.31 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 83.980 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 84.017 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 82.118 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 80.325 ms
Loss rate: 2.47%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 08:40:04

End at: 2017-11-16 08:40:34

Local clock offset: -0.244 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 84.047 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 84.089 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 82.496 ms

Loss rate: 0.98%

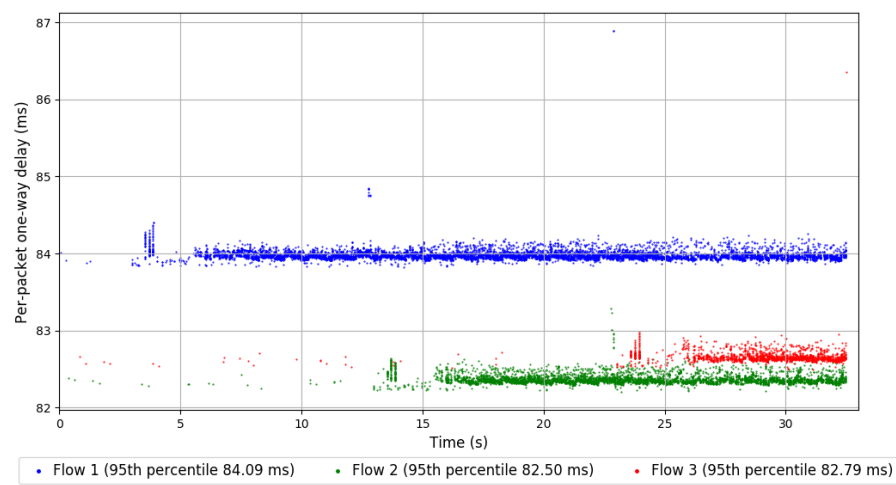
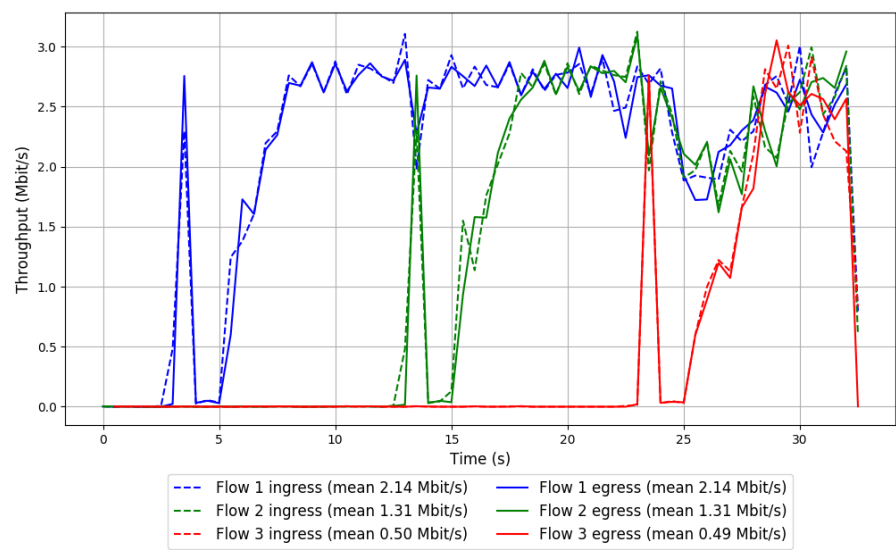
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 82.794 ms

Loss rate: 2.61%

Run 5: Report of WebRTC media — Data Link

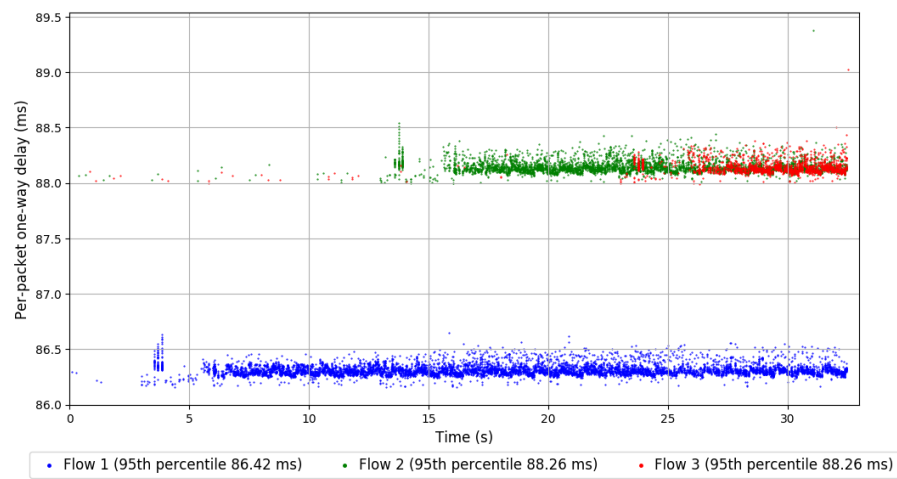
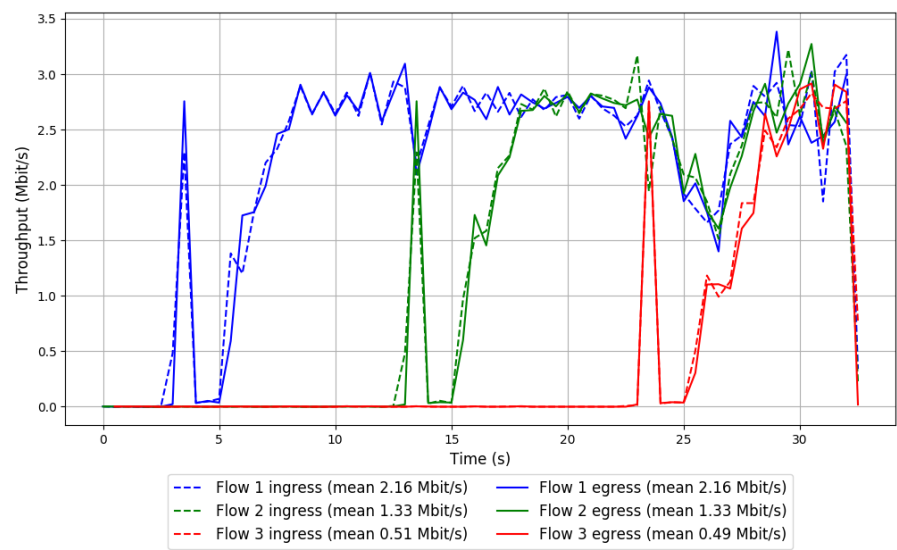


Run 6: Statistics of WebRTC media

Start at: 2017-11-16 09:00:07
End at: 2017-11-16 09:00:37
Local clock offset: -0.148 ms
Remote clock offset: -3.868 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 88.215 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 86.416 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 88.260 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 88.262 ms
Loss rate: 3.49%

Run 6: Report of WebRTC media — Data Link

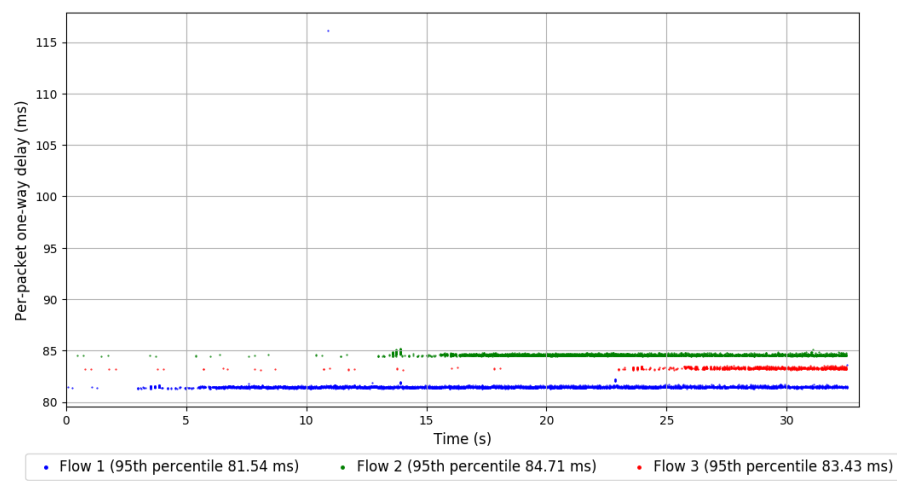
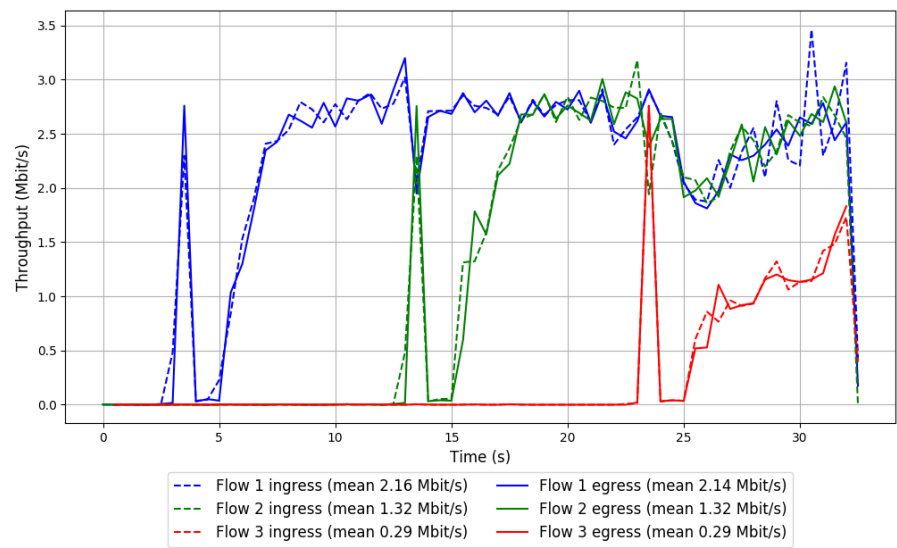


Run 7: Statistics of WebRTC media

Start at: 2017-11-16 09:20:12
End at: 2017-11-16 09:20:42
Local clock offset: -0.113 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 84.628 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 81.544 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 84.711 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 83.427 ms
Loss rate: 3.12%

Run 7: Report of WebRTC media — Data Link

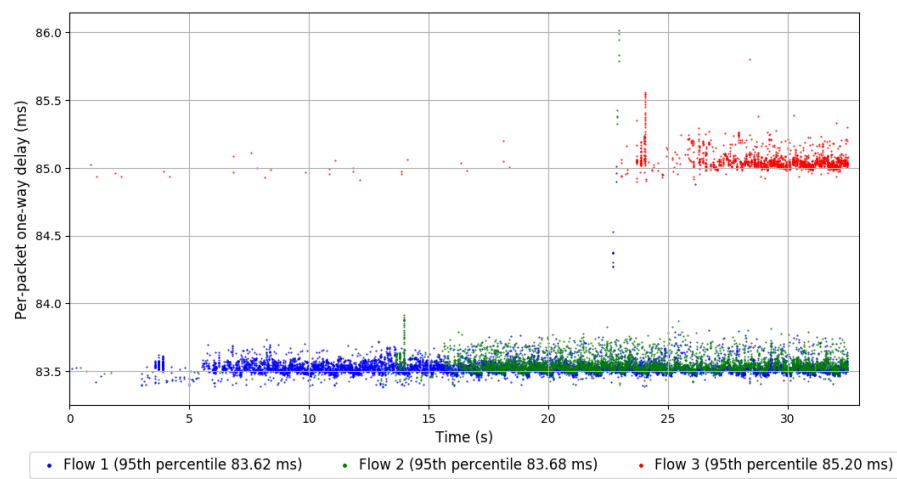
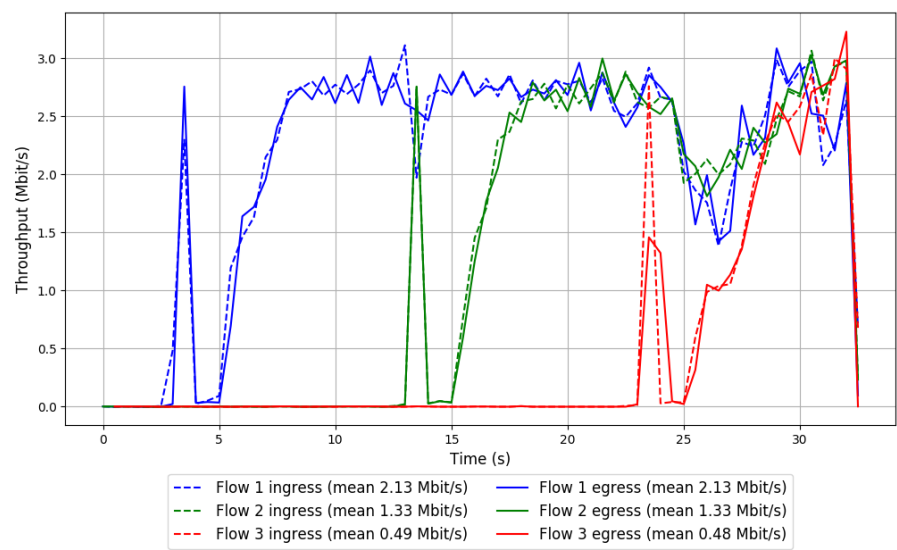


Run 8: Statistics of WebRTC media

Start at: 2017-11-16 09:40:22
End at: 2017-11-16 09:40:52
Local clock offset: -0.058 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 85.048 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 83.621 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 83.680 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 85.199 ms
Loss rate: 3.06%

Run 8: Report of WebRTC media — Data Link

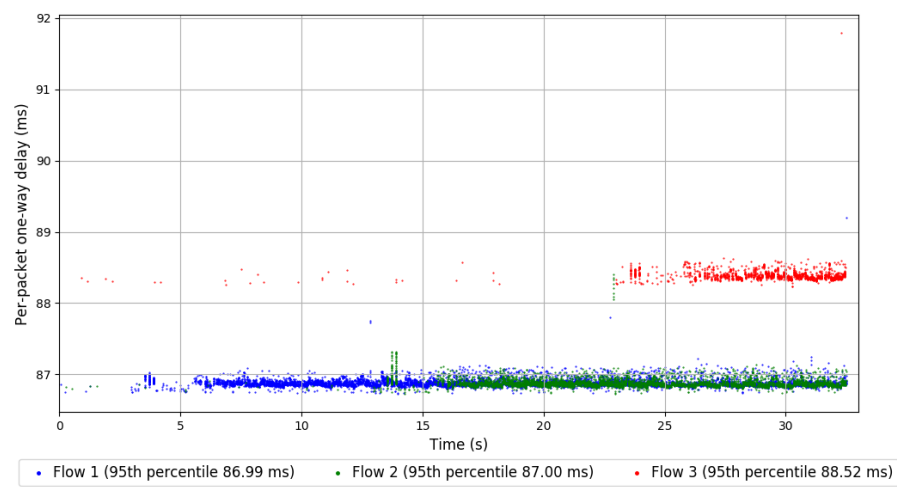
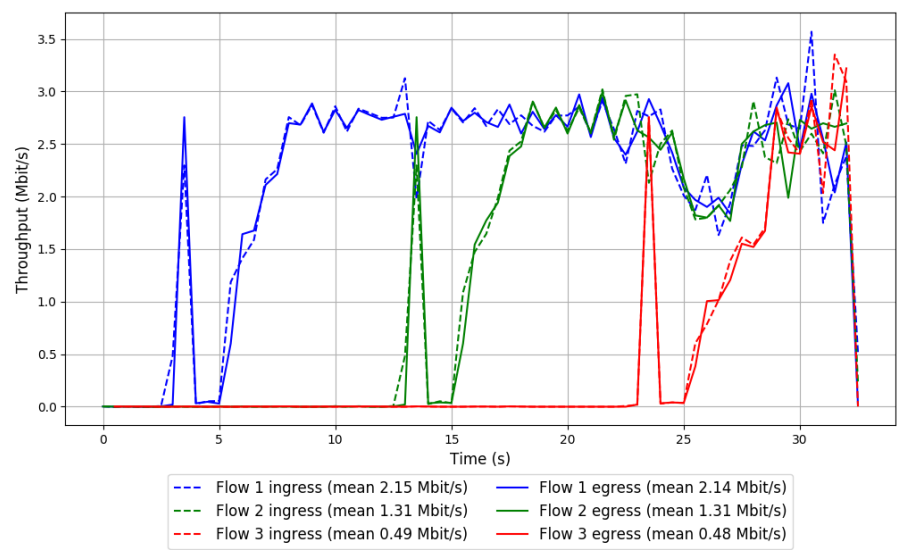


Run 9: Statistics of WebRTC media

Start at: 2017-11-16 10:00:31
End at: 2017-11-16 10:01:01
Local clock offset: -0.039 ms
Remote clock offset: -3.871 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 88.391 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 86.986 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 86.999 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 88.515 ms
Loss rate: 2.57%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 10:20:34

End at: 2017-11-16 10:21:04

Local clock offset: 0.023 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2017-11-16 14:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 84.204 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 84.241 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 80.543 ms

Loss rate: 0.96%

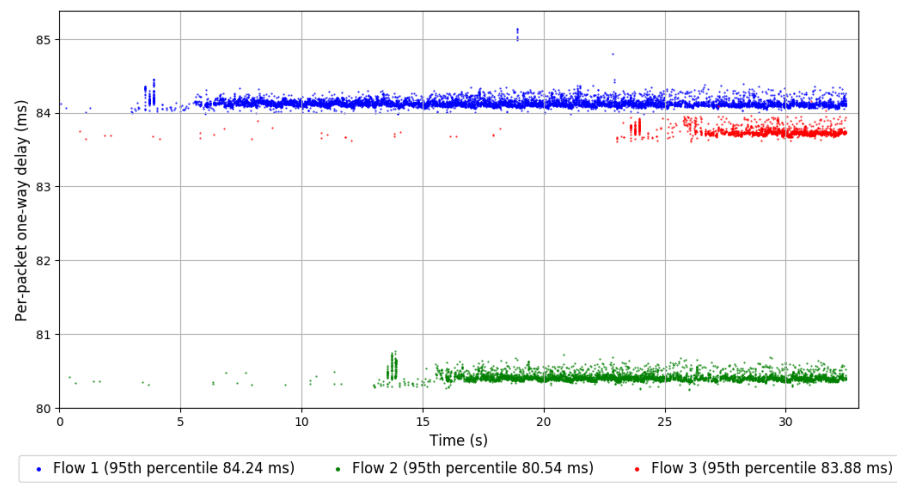
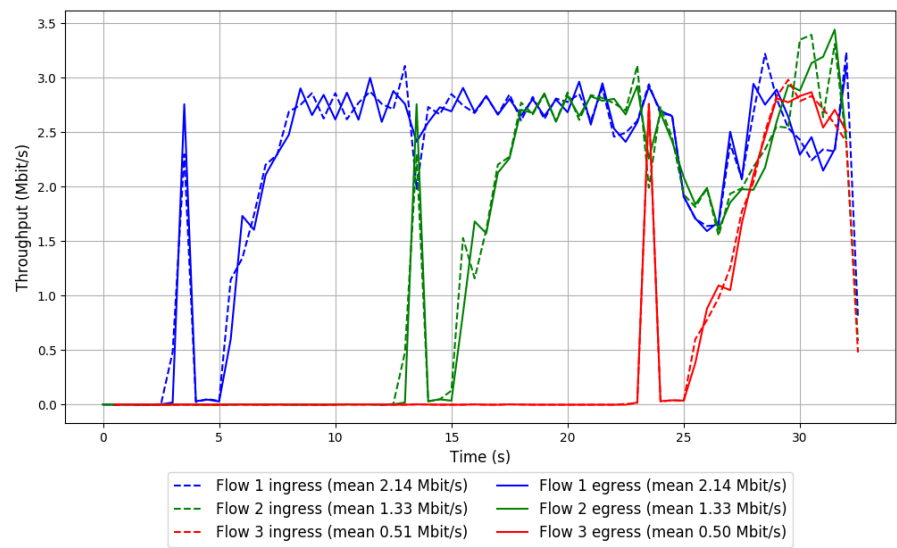
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 83.881 ms

Loss rate: 2.64%

Run 10: Report of WebRTC media — Data Link

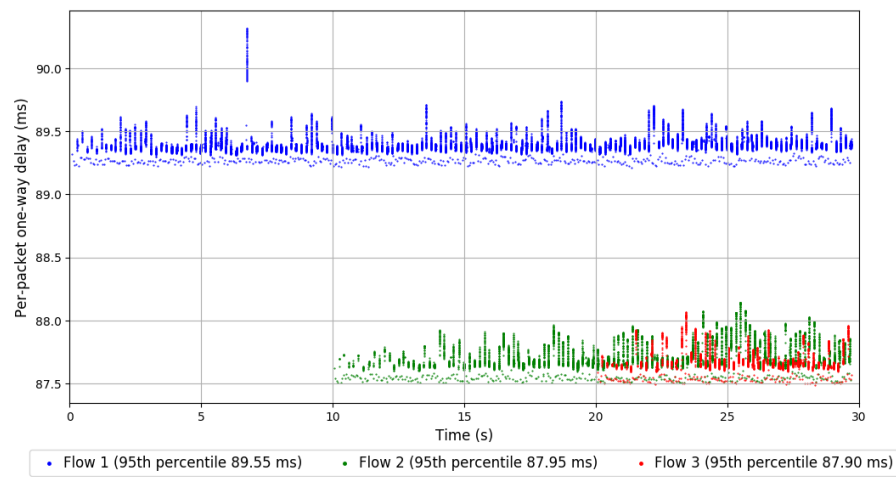
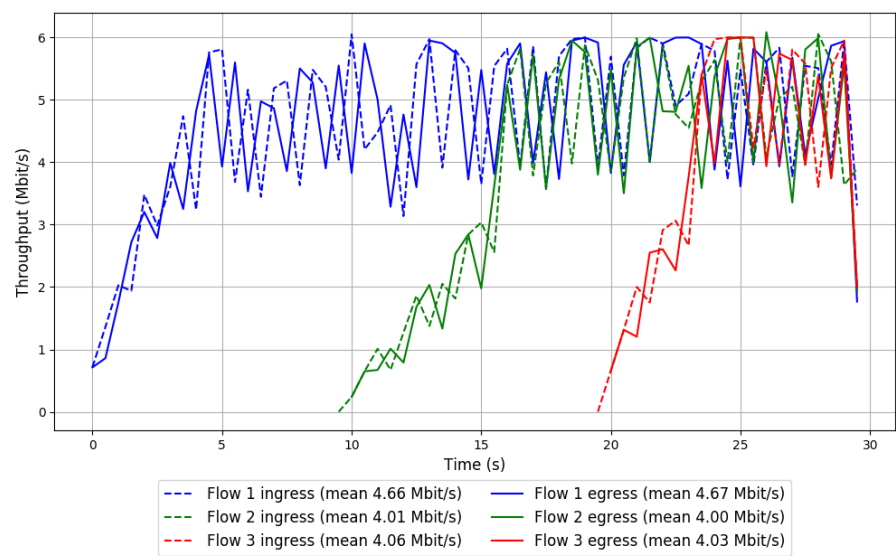


Run 1: Statistics of Sprout

Start at: 2017-11-16 07:27:03
End at: 2017-11-16 07:27:33
Local clock offset: -0.502 ms
Remote clock offset: -7.193 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 89.496 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 89.551 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 87.954 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 87.900 ms
Loss rate: 2.50%

Run 1: Report of Sprout — Data Link

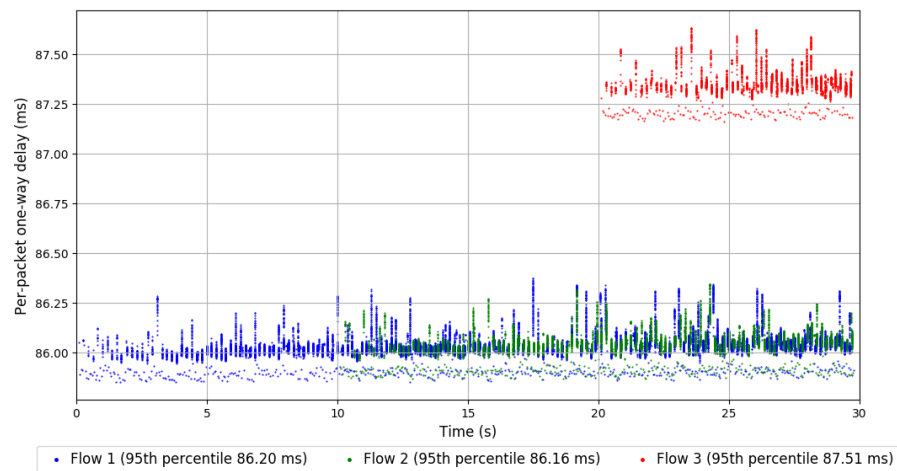
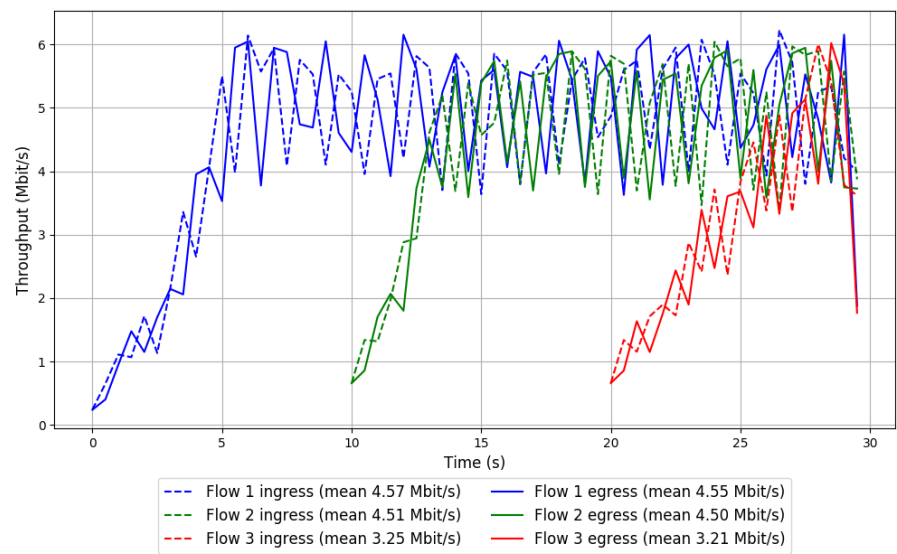


Run 2: Statistics of Sprout

Start at: 2017-11-16 07:47:16
End at: 2017-11-16 07:47:46
Local clock offset: -0.496 ms
Remote clock offset: -6.798 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 87.357 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 86.196 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 86.156 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 87.511 ms
Loss rate: 2.90%

Run 2: Report of Sprout — Data Link

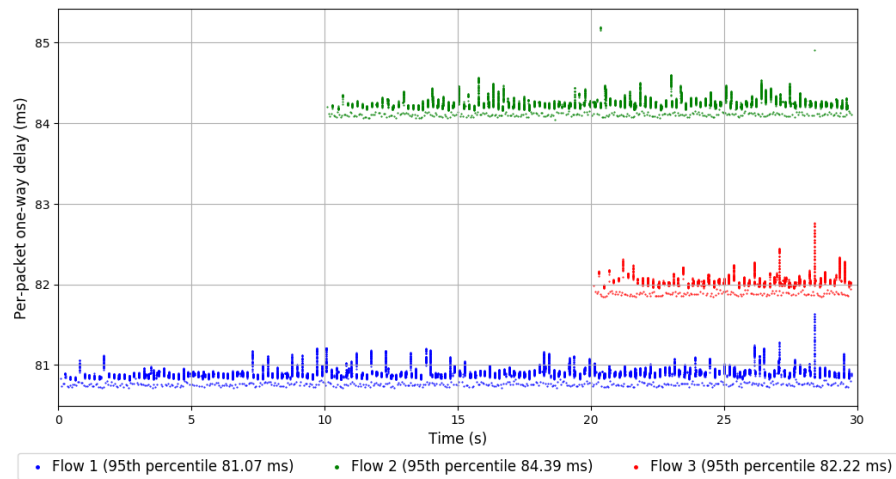
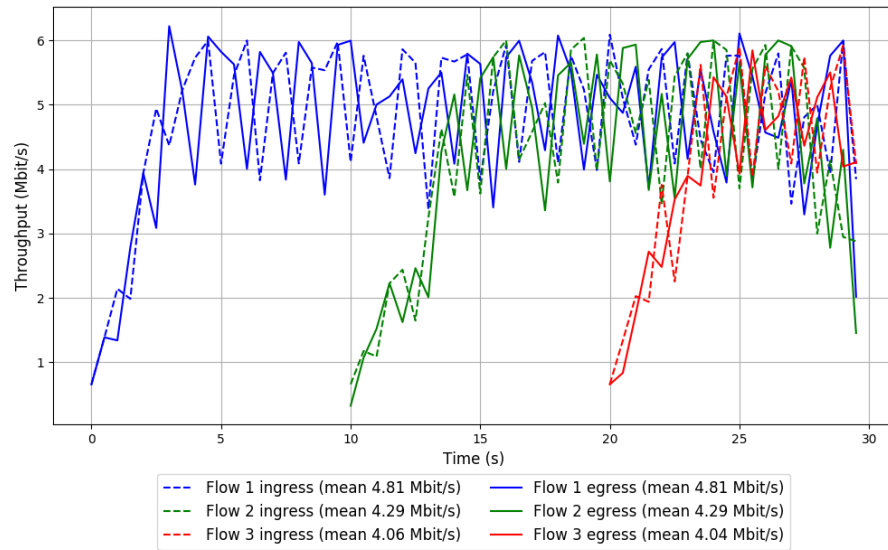


Run 3: Statistics of Sprout

Start at: 2017-11-16 08:07:17
End at: 2017-11-16 08:07:47
Local clock offset: -0.34 ms
Remote clock offset: -0.648 ms

```
# Below is generated by plot.py at 2017-11-16 14:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: 84.302 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 81.068 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 84.393 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 82.225 ms
Loss rate: 2.32%
```


Run 3: Report of Sprout — Data Link

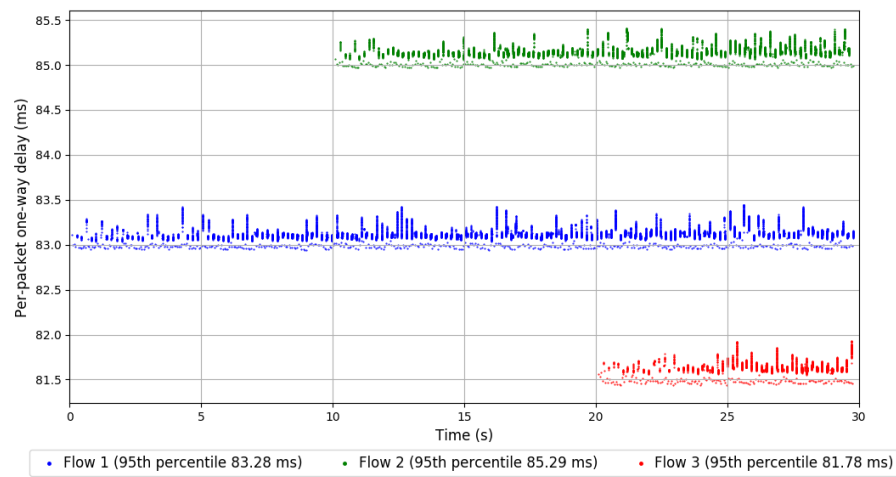
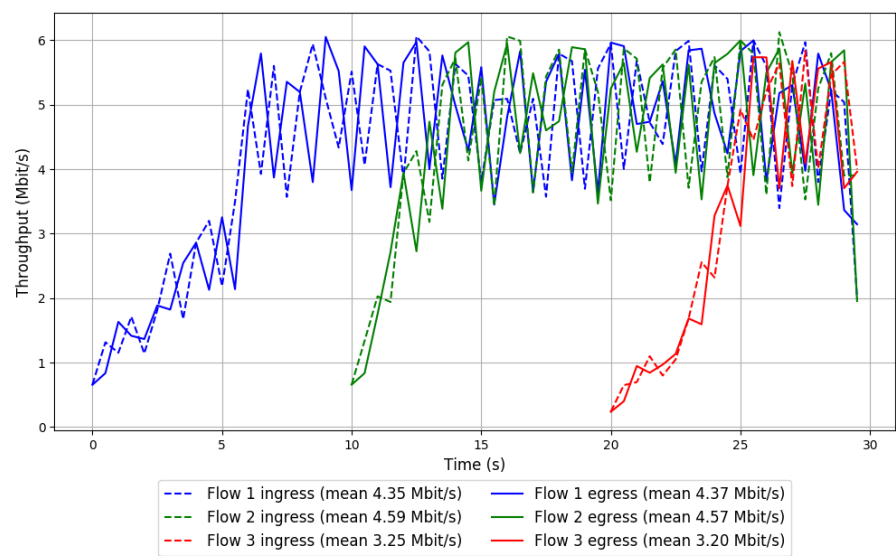


Run 4: Statistics of Sprout

Start at: 2017-11-16 08:27:22
End at: 2017-11-16 08:27:52
Local clock offset: -0.267 ms
Remote clock offset: -0.945 ms

```
# Below is generated by plot.py at 2017-11-16 14:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 85.206 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 83.276 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 85.286 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 81.778 ms
Loss rate: 3.14%
```

Run 4: Report of Sprout — Data Link

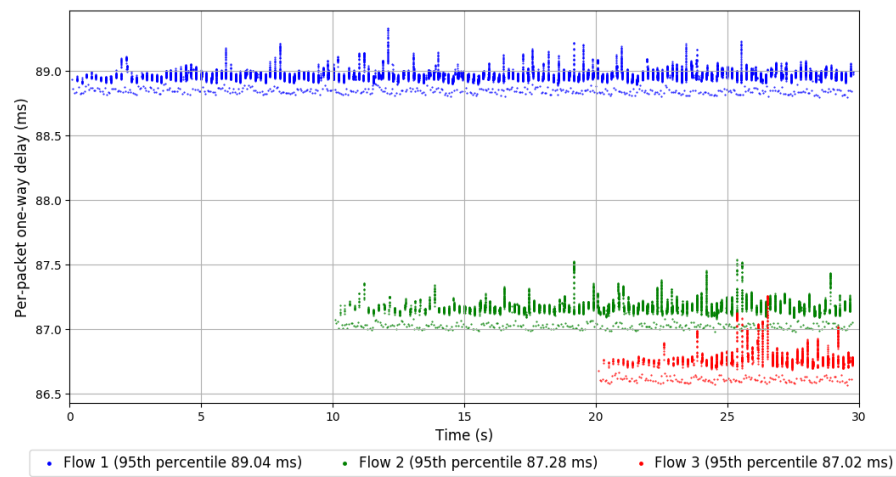
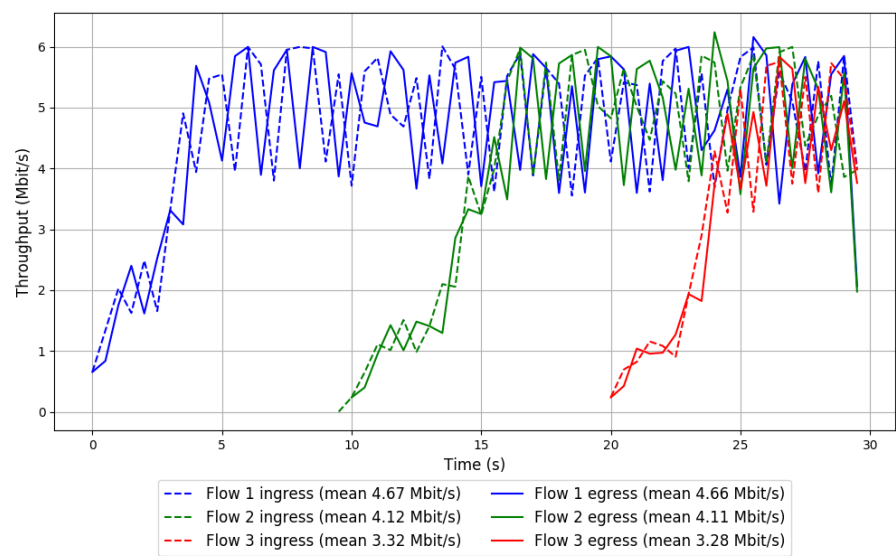


Run 5: Statistics of Sprout

Start at: 2017-11-16 08:47:29
End at: 2017-11-16 08:47:59
Local clock offset: -0.228 ms
Remote clock offset: -4.769 ms

```
# Below is generated by plot.py at 2017-11-16 14:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 89.012 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 89.042 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 87.282 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 87.023 ms
Loss rate: 3.06%
```

Run 5: Report of Sprout — Data Link

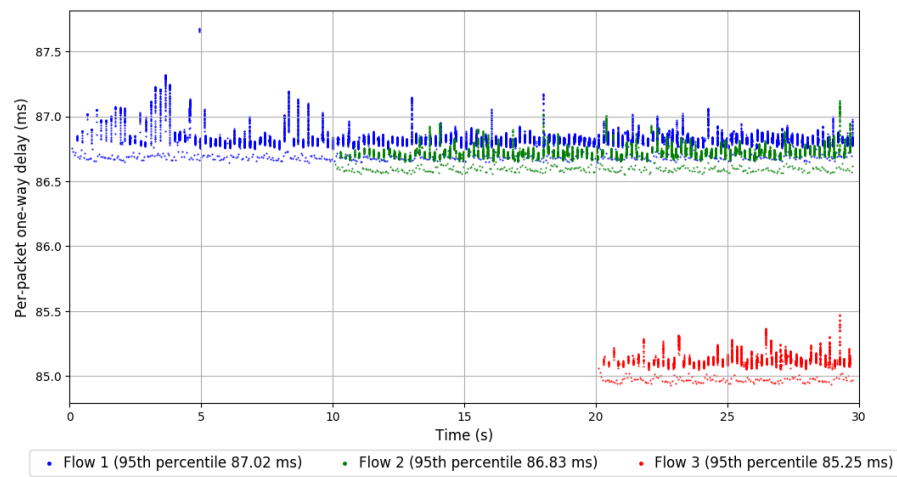
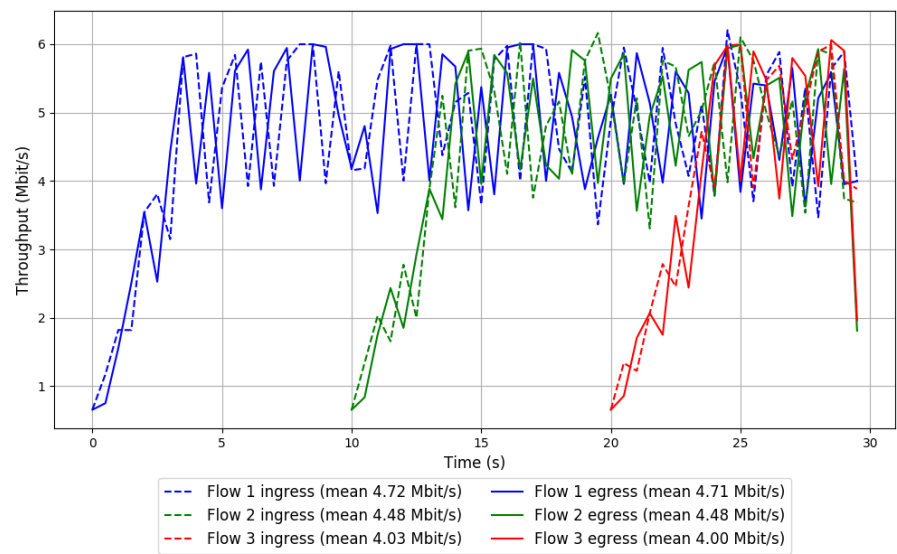


Run 6: Statistics of Sprout

Start at: 2017-11-16 09:07:33
End at: 2017-11-16 09:08:03
Local clock offset: -0.152 ms
Remote clock offset: -4.187 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 86.936 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 87.017 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 86.828 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 85.247 ms
Loss rate: 2.43%

Run 6: Report of Sprout — Data Link

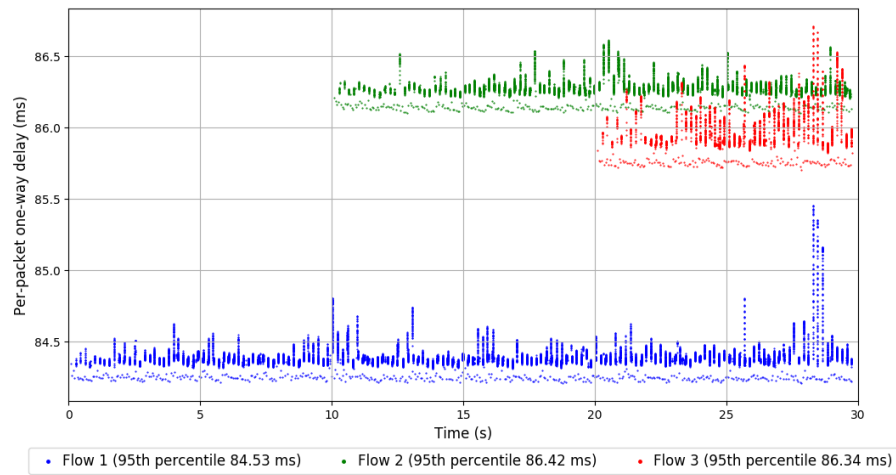
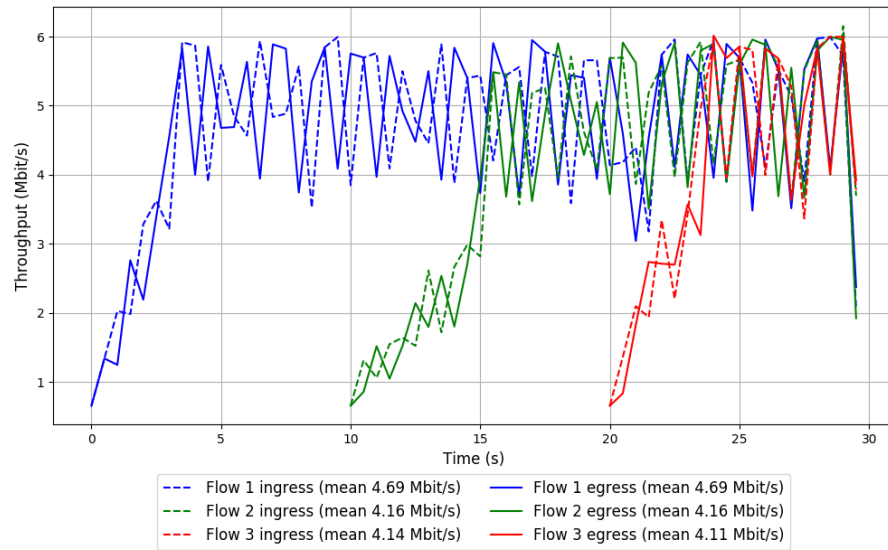


Run 7: Statistics of Sprout

Start at: 2017-11-16 09:27:36
End at: 2017-11-16 09:28:06
Local clock offset: -0.143 ms
Remote clock offset: -3.364 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 86.333 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 84.529 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 86.425 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 86.343 ms
Loss rate: 2.28%

Run 7: Report of Sprout — Data Link

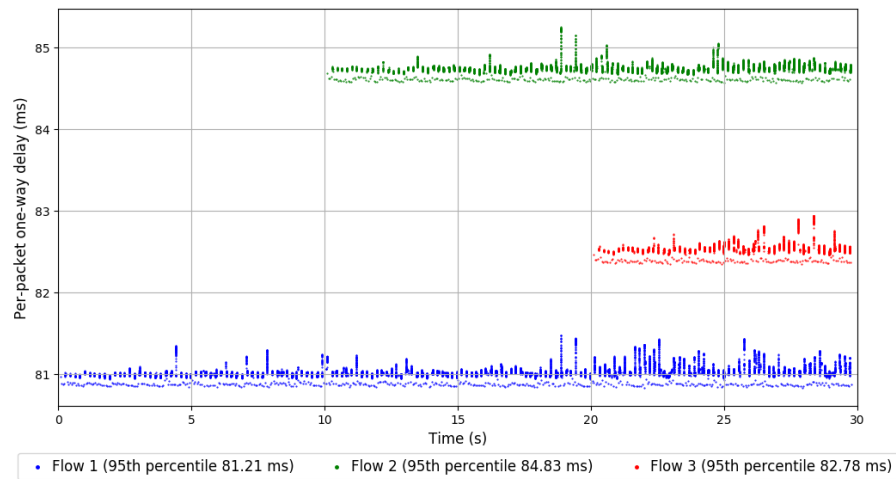
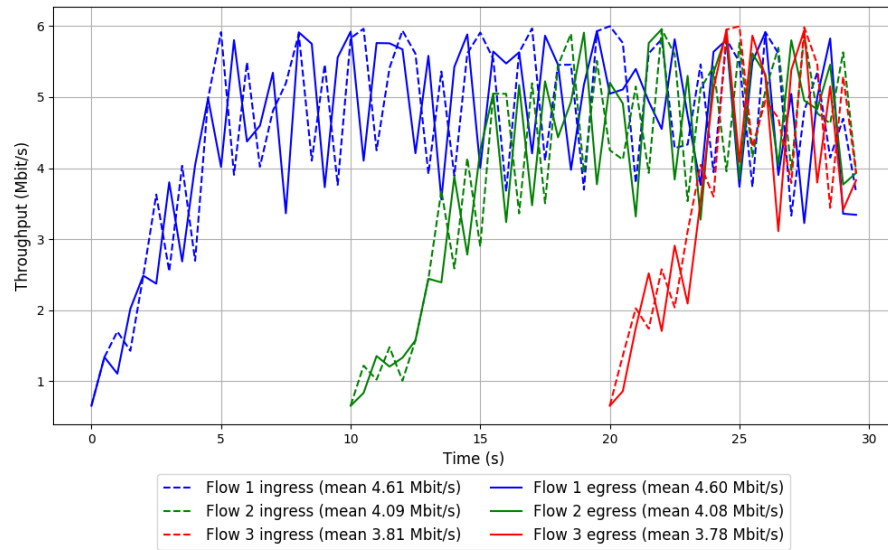


Run 8: Statistics of Sprout

Start at: 2017-11-16 09:47:46
End at: 2017-11-16 09:48:16
Local clock offset: -0.033 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 84.786 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 81.209 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 84.834 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 82.776 ms
Loss rate: 2.63%

Run 8: Report of Sprout — Data Link

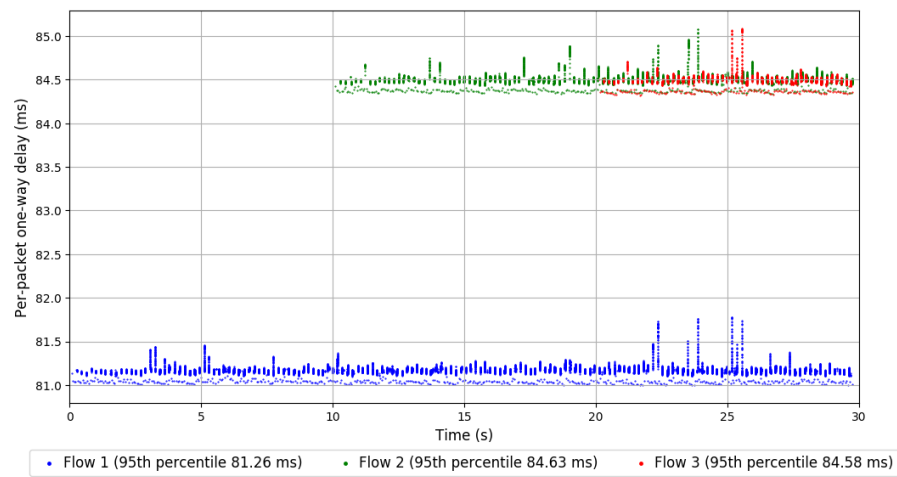
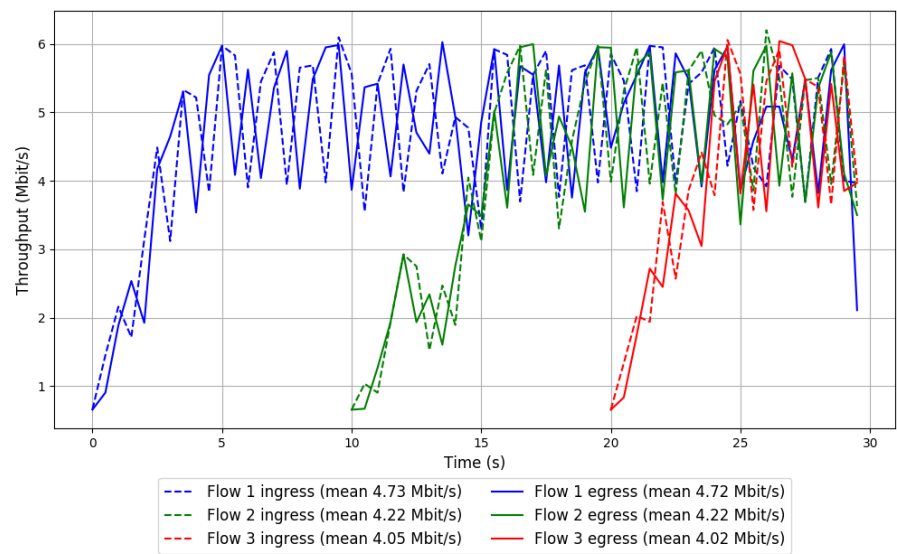


Run 9: Statistics of Sprout

Start at: 2017-11-16 10:07:55
End at: 2017-11-16 10:08:25
Local clock offset: 0.023 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 84.558 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 4.72 Mbit/s
95th percentile per-packet one-way delay: 81.263 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 84.633 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 84.584 ms
Loss rate: 2.52%

Run 9: Report of Sprout — Data Link

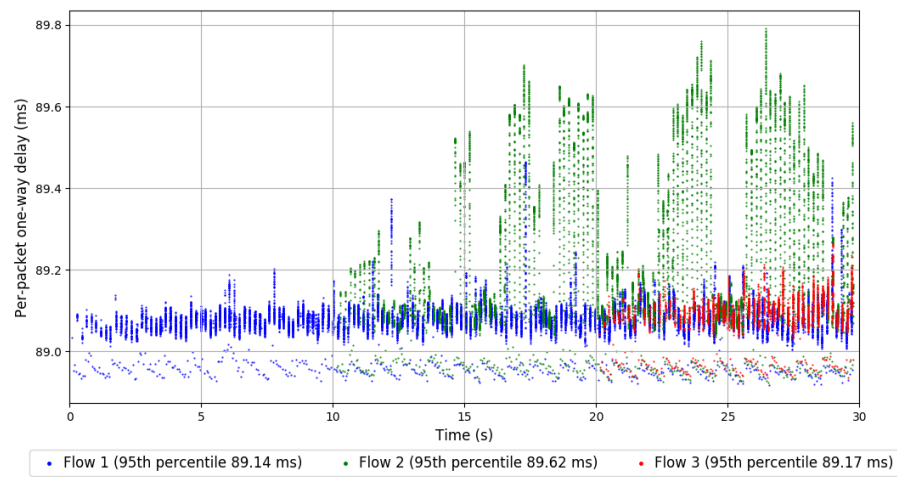
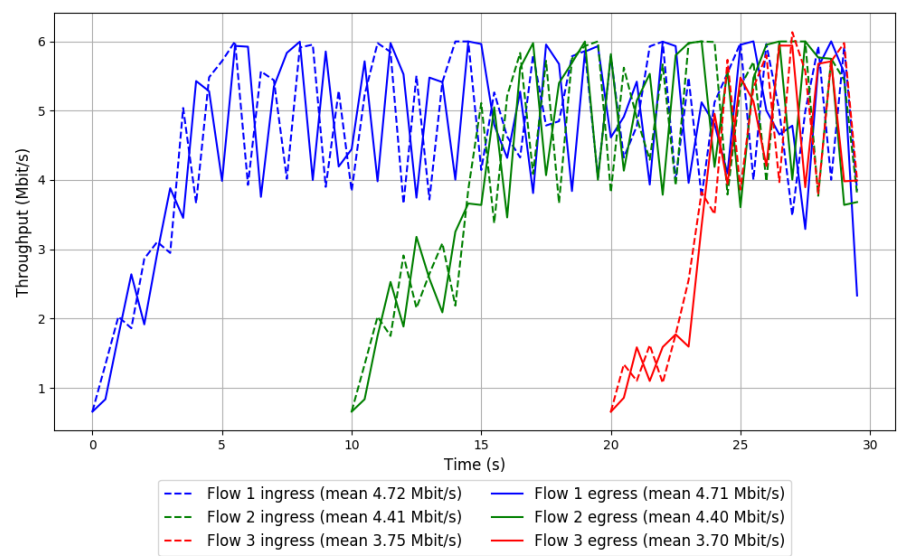


Run 10: Statistics of Sprout

Start at: 2017-11-16 10:27:55
End at: 2017-11-16 10:28:25
Local clock offset: -0.036 ms
Remote clock offset: -5.259 ms

Below is generated by plot.py at 2017-11-16 14:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 89.547 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 89.145 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 89.618 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 89.167 ms
Loss rate: 2.72%

Run 10: Report of Sprout — Data Link

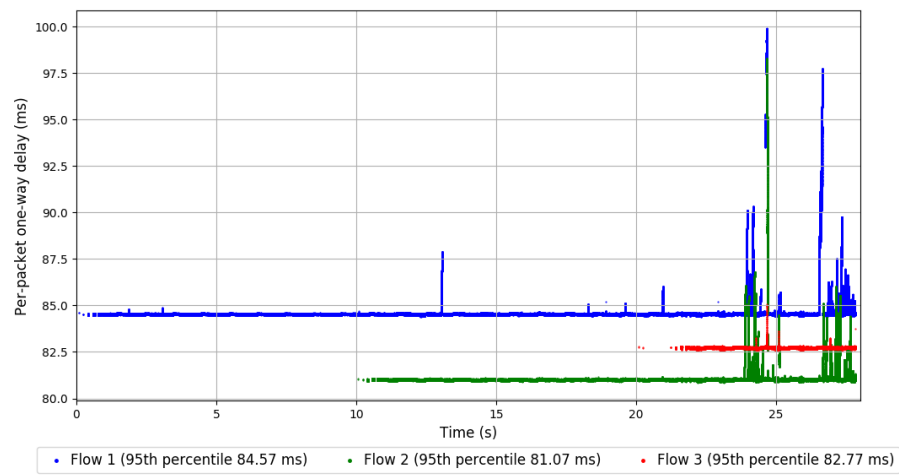
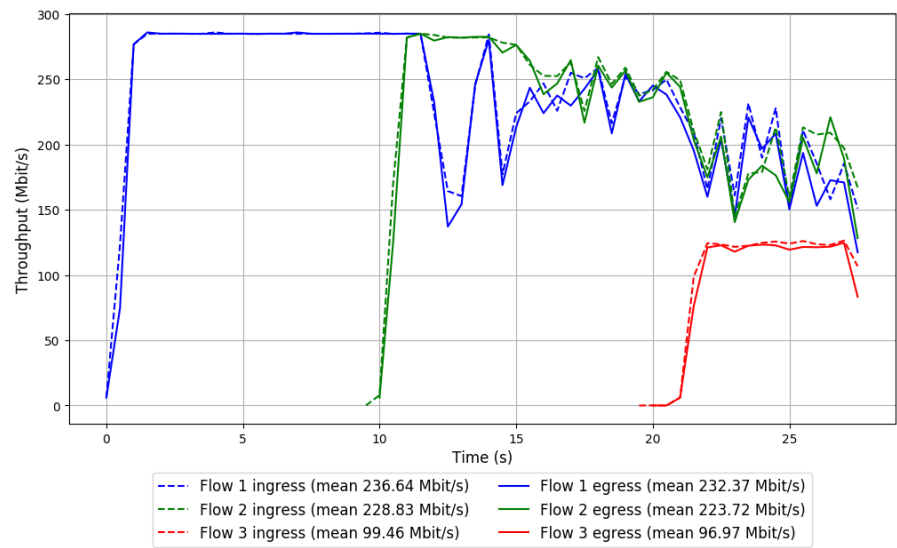


Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 07:23:39
End at: 2017-11-16 07:24:09
Local clock offset: -0.51 ms
Remote clock offset: -2.401 ms

Below is generated by plot.py at 2017-11-16 14:30:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.69 Mbit/s
95th percentile per-packet one-way delay: 84.564 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 232.37 Mbit/s
95th percentile per-packet one-way delay: 84.574 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 223.72 Mbit/s
95th percentile per-packet one-way delay: 81.069 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 82.770 ms
Loss rate: 4.58%

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

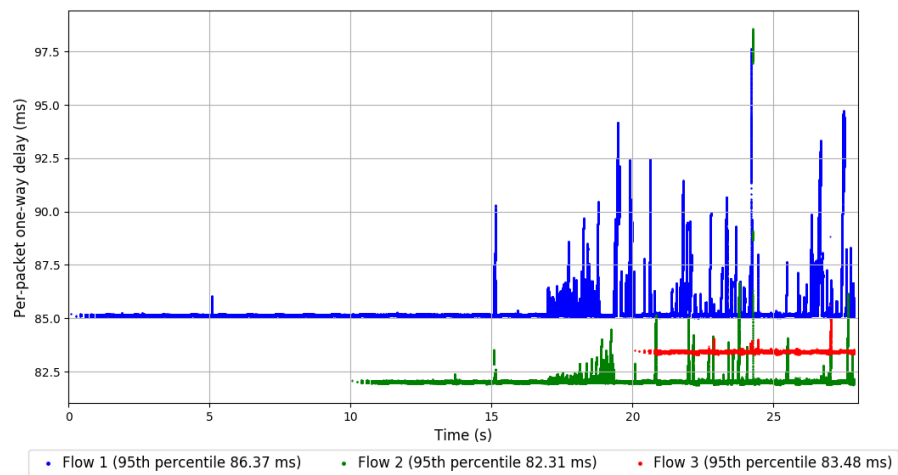
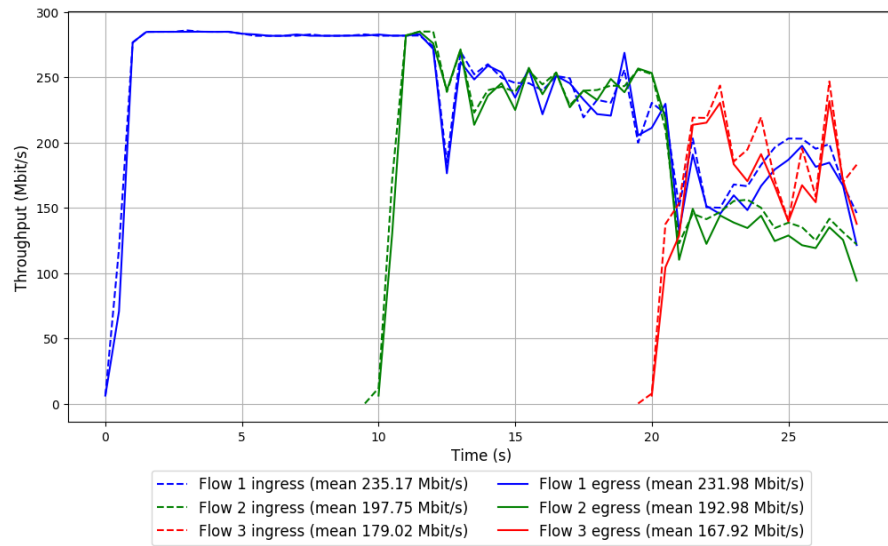


Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 07:43:48
End at: 2017-11-16 07:44:18
Local clock offset: -0.464 ms
Remote clock offset: -2.953 ms

Below is generated by plot.py at 2017-11-16 14:30:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.64 Mbit/s
95th percentile per-packet one-way delay: 85.540 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 231.98 Mbit/s
95th percentile per-packet one-way delay: 86.371 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 192.98 Mbit/s
95th percentile per-packet one-way delay: 82.308 ms
Loss rate: 3.34%
-- Flow 3:
Average throughput: 167.92 Mbit/s
95th percentile per-packet one-way delay: 83.484 ms
Loss rate: 8.21%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 08:03:50

End at: 2017-11-16 08:04:20

Local clock offset: -0.356 ms

Remote clock offset: -0.44 ms

Below is generated by plot.py at 2017-11-16 14:30:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.02 Mbit/s

95th percentile per-packet one-way delay: 82.375 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 225.69 Mbit/s

95th percentile per-packet one-way delay: 82.386 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 201.76 Mbit/s

95th percentile per-packet one-way delay: 82.176 ms

Loss rate: 2.49%

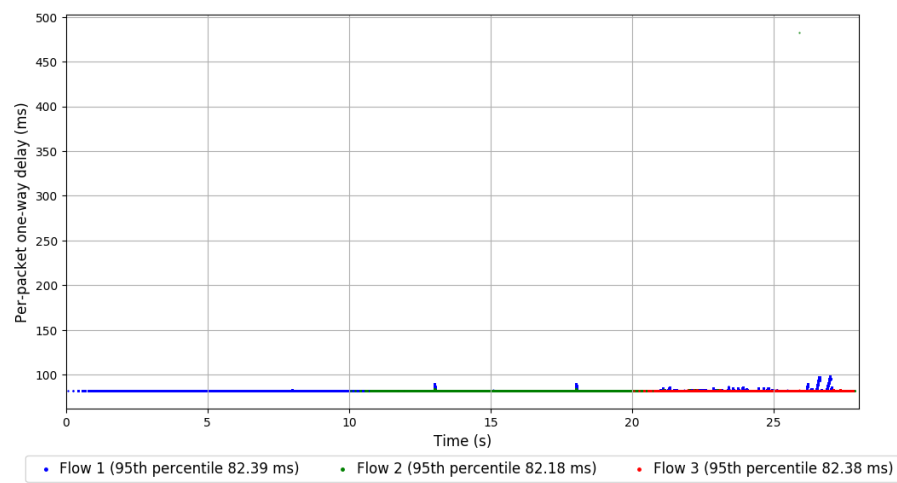
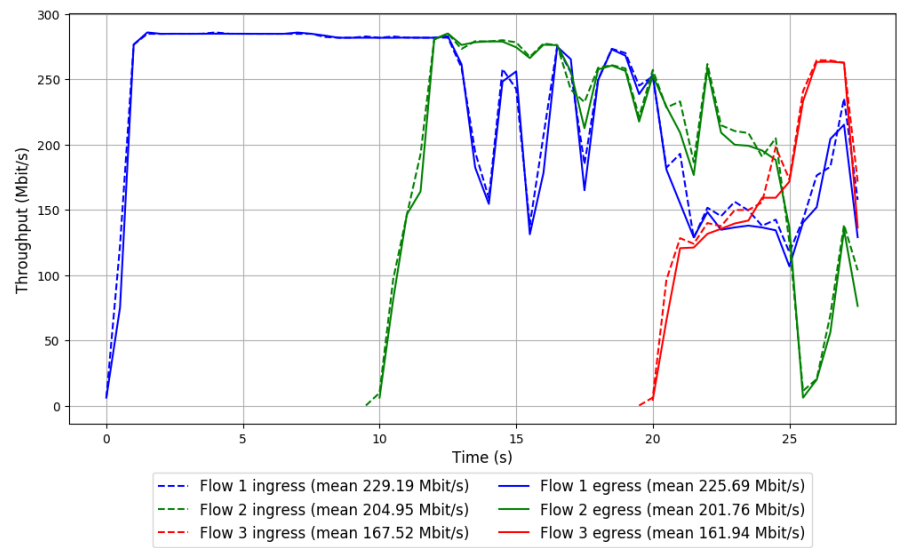
-- Flow 3:

Average throughput: 161.94 Mbit/s

95th percentile per-packet one-way delay: 82.383 ms

Loss rate: 5.79%

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

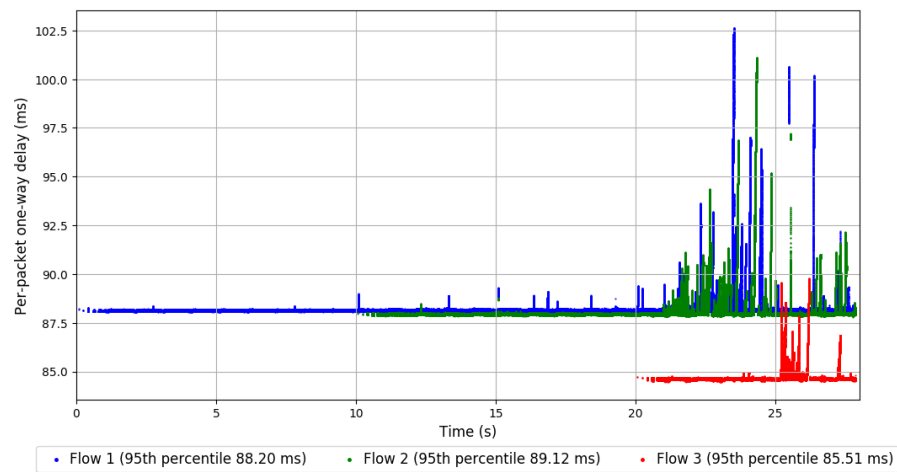
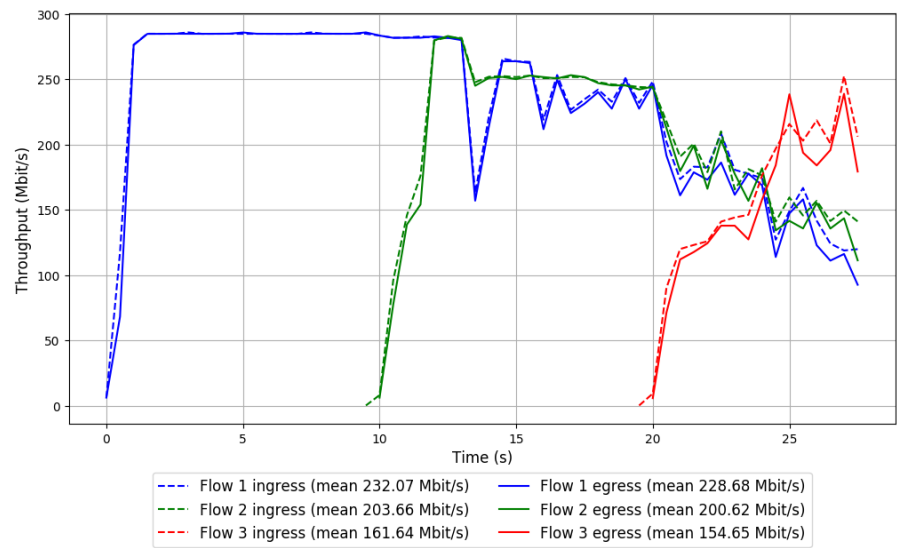


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 08:23:55
End at: 2017-11-16 08:24:25
Local clock offset: -0.276 ms
Remote clock offset: -4.106 ms

Below is generated by plot.py at 2017-11-16 14:31:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 400.53 Mbit/s
95th percentile per-packet one-way delay: 88.219 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 228.68 Mbit/s
95th percentile per-packet one-way delay: 88.201 ms
Loss rate: 2.07%
-- Flow 2:
Average throughput: 200.62 Mbit/s
95th percentile per-packet one-way delay: 89.118 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 154.65 Mbit/s
95th percentile per-packet one-way delay: 85.513 ms
Loss rate: 6.35%

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

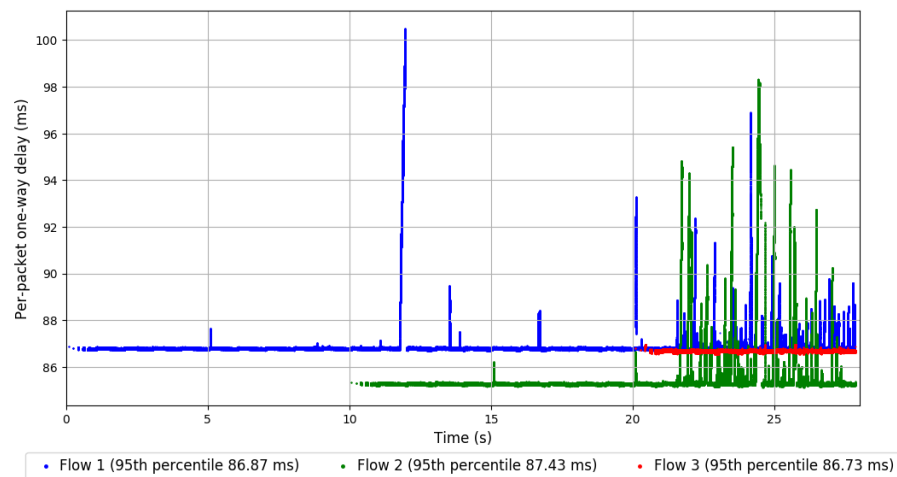
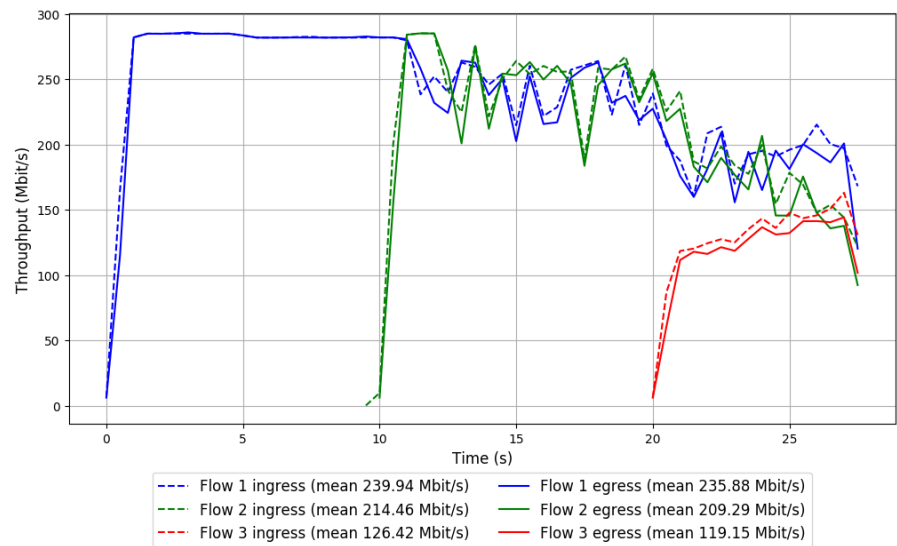


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 08:44:01
End at: 2017-11-16 08:44:31
Local clock offset: -0.267 ms
Remote clock offset: -4.377 ms

Below is generated by plot.py at 2017-11-16 14:31:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 403.08 Mbit/s
95th percentile per-packet one-way delay: 86.862 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 235.88 Mbit/s
95th percentile per-packet one-way delay: 86.867 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 209.29 Mbit/s
95th percentile per-packet one-way delay: 87.433 ms
Loss rate: 3.34%
-- Flow 3:
Average throughput: 119.15 Mbit/s
95th percentile per-packet one-way delay: 86.727 ms
Loss rate: 7.76%

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

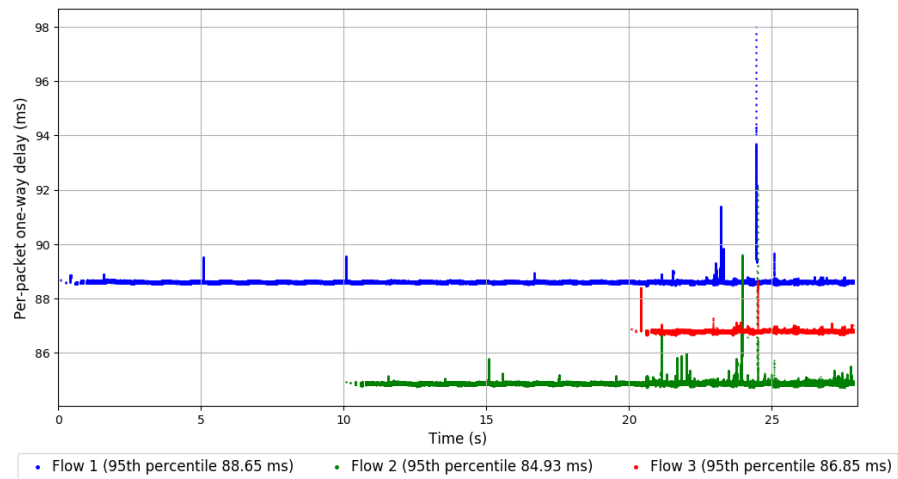
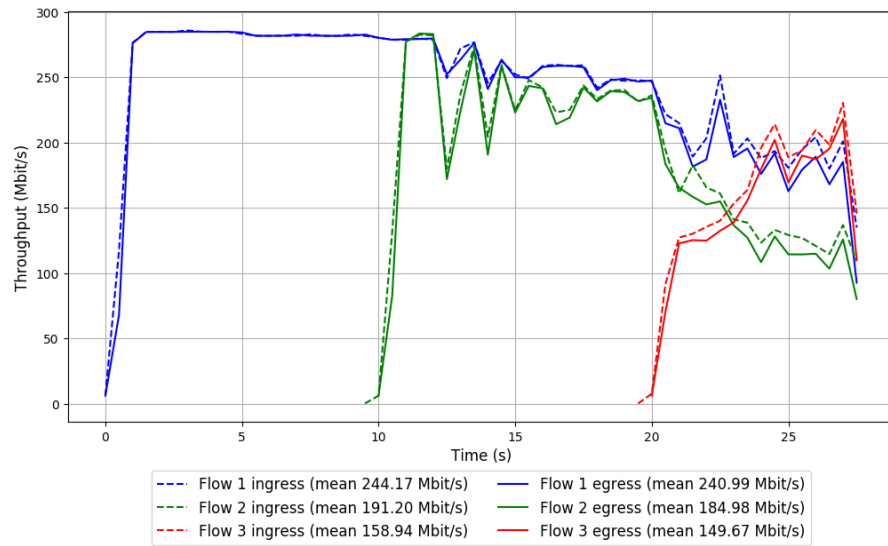


Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 09:04:05
End at: 2017-11-16 09:04:35
Local clock offset: -0.232 ms
Remote clock offset: -4.327 ms

Below is generated by plot.py at 2017-11-16 14:31:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.34 Mbit/s
95th percentile per-packet one-way delay: 88.640 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 240.99 Mbit/s
95th percentile per-packet one-way delay: 88.646 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 184.98 Mbit/s
95th percentile per-packet one-way delay: 84.930 ms
Loss rate: 4.16%
-- Flow 3:
Average throughput: 149.67 Mbit/s
95th percentile per-packet one-way delay: 86.850 ms
Loss rate: 7.83%

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

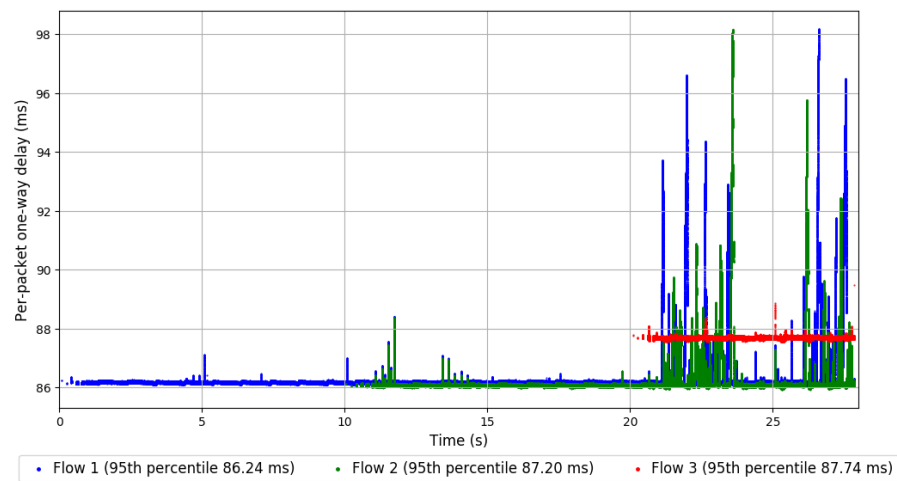
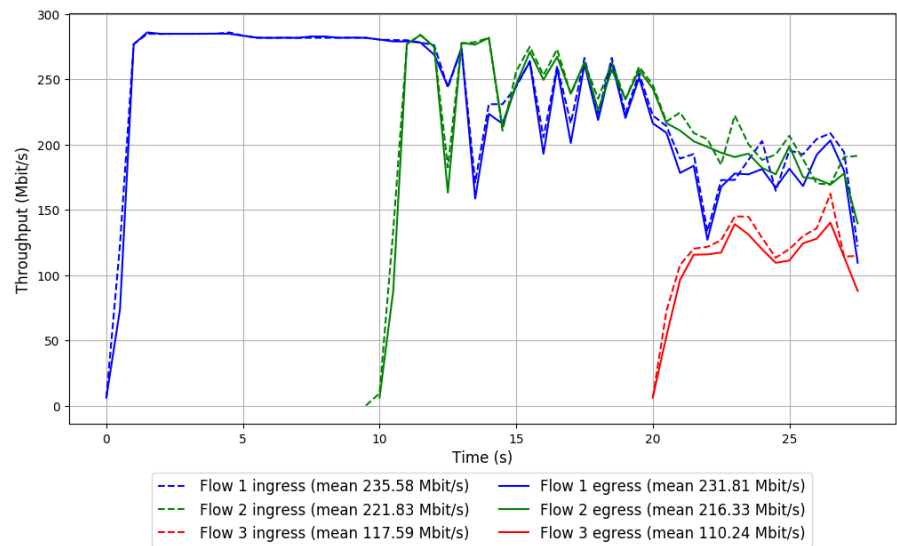


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 09:24:09
End at: 2017-11-16 09:24:39
Local clock offset: -0.11 ms
Remote clock offset: -3.324 ms

Below is generated by plot.py at 2017-11-16 14:32:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.15 Mbit/s
95th percentile per-packet one-way delay: 87.712 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 231.81 Mbit/s
95th percentile per-packet one-way delay: 86.238 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 216.33 Mbit/s
95th percentile per-packet one-way delay: 87.201 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 110.24 Mbit/s
95th percentile per-packet one-way delay: 87.742 ms
Loss rate: 8.26%

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

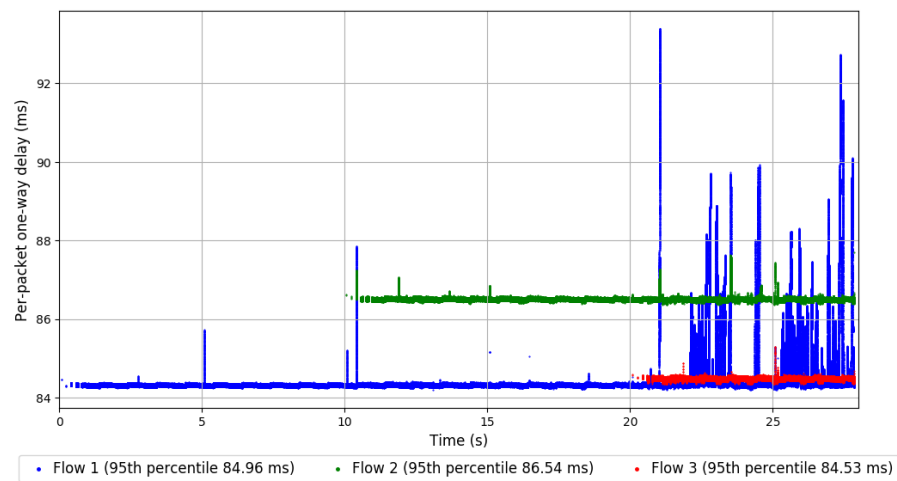
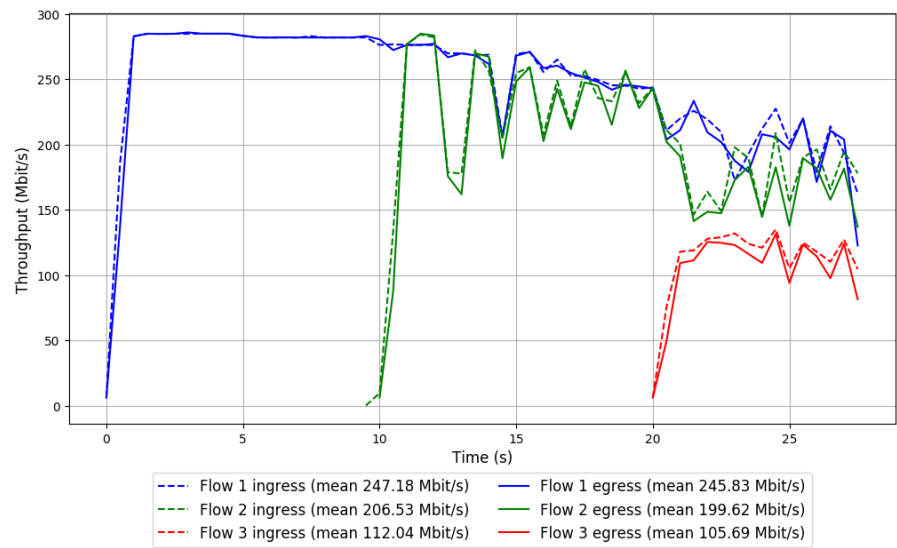


Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 09:44:19
End at: 2017-11-16 09:44:49
Local clock offset: -0.112 ms
Remote clock offset: -3.441 ms

Below is generated by plot.py at 2017-11-16 14:33:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 403.24 Mbit/s
95th percentile per-packet one-way delay: 86.532 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 245.83 Mbit/s
95th percentile per-packet one-way delay: 84.963 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 199.62 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 4.17%
-- Flow 3:
Average throughput: 105.69 Mbit/s
95th percentile per-packet one-way delay: 84.532 ms
Loss rate: 7.67%

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

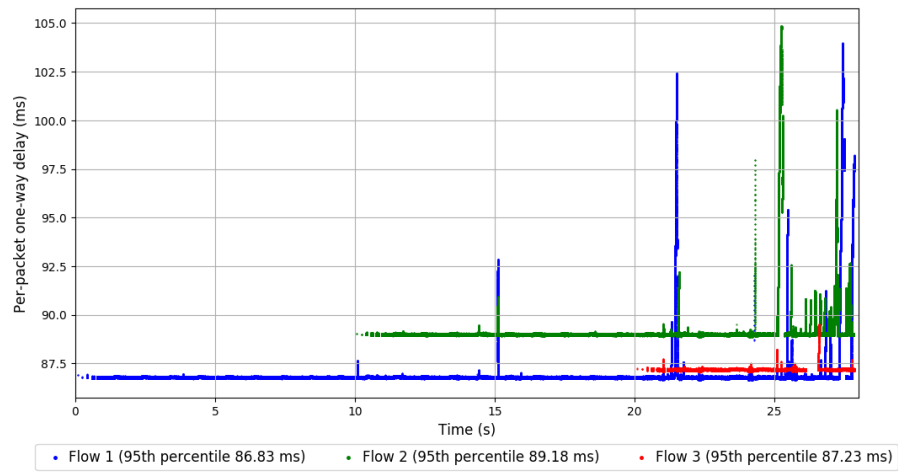
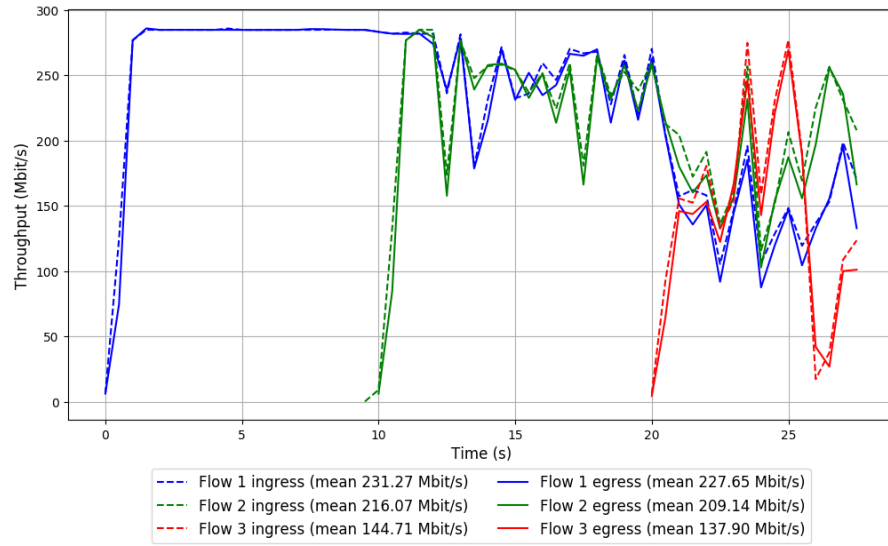


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 10:04:28
End at: 2017-11-16 10:04:58
Local clock offset: -0.017 ms
Remote clock offset: -4.526 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 400.04 Mbit/s
95th percentile per-packet one-way delay: 89.028 ms
Loss rate: 3.31%
-- Flow 1:
Average throughput: 227.65 Mbit/s
95th percentile per-packet one-way delay: 86.827 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 209.14 Mbit/s
95th percentile per-packet one-way delay: 89.181 ms
Loss rate: 4.20%
-- Flow 3:
Average throughput: 137.90 Mbit/s
95th percentile per-packet one-way delay: 87.226 ms
Loss rate: 6.75%

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

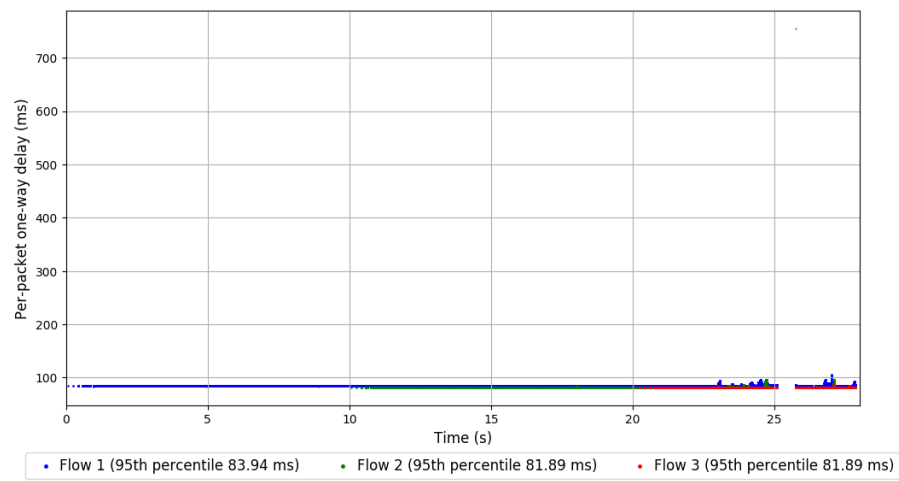
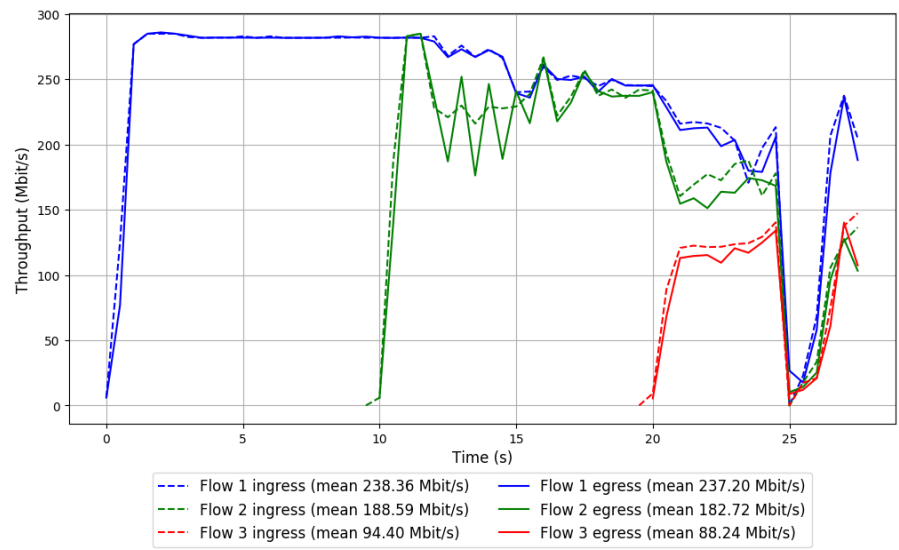


Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 10:24:31
End at: 2017-11-16 10:25:01
Local clock offset: 0.049 ms
Remote clock offset: -1.178 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 378.83 Mbit/s
95th percentile per-packet one-way delay: 83.918 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 237.20 Mbit/s
95th percentile per-packet one-way delay: 83.935 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 182.72 Mbit/s
95th percentile per-packet one-way delay: 81.893 ms
Loss rate: 4.02%
-- Flow 3:
Average throughput: 88.24 Mbit/s
95th percentile per-packet one-way delay: 81.889 ms
Loss rate: 8.49%

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

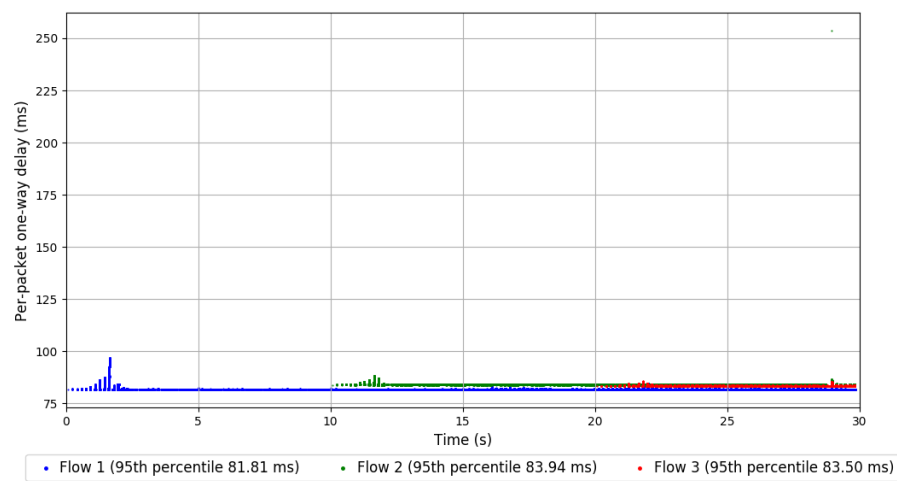
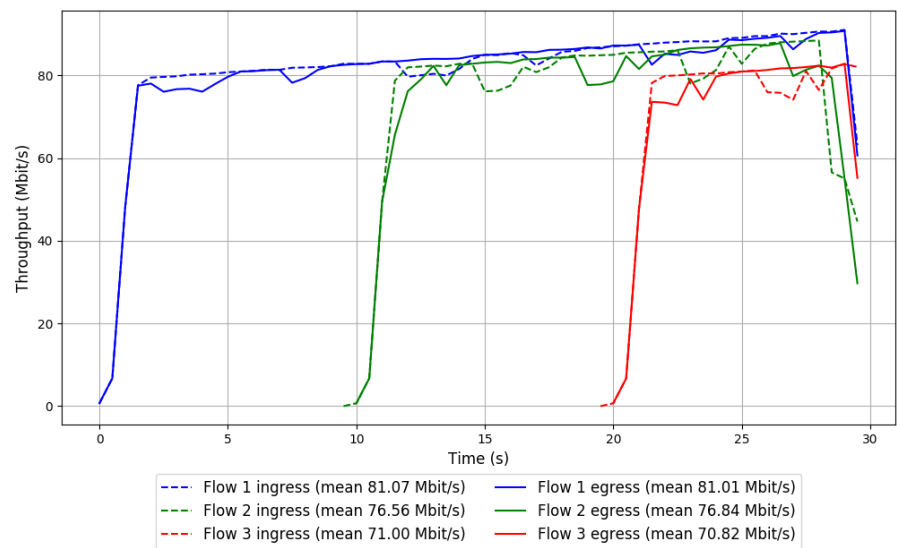


Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 07:29:50
End at: 2017-11-16 07:30:20
Local clock offset: -0.545 ms
Remote clock offset: -3.205 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.17 Mbit/s
95th percentile per-packet one-way delay: 83.902 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 81.01 Mbit/s
95th percentile per-packet one-way delay: 81.806 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 83.941 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 70.82 Mbit/s
95th percentile per-packet one-way delay: 83.495 ms
Loss rate: 1.96%

Run 1: Report of TCP Vegas — Data Link

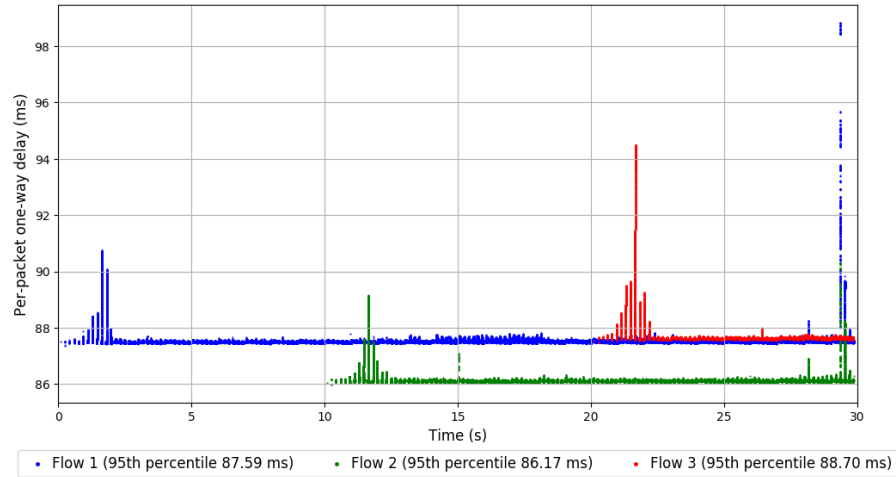
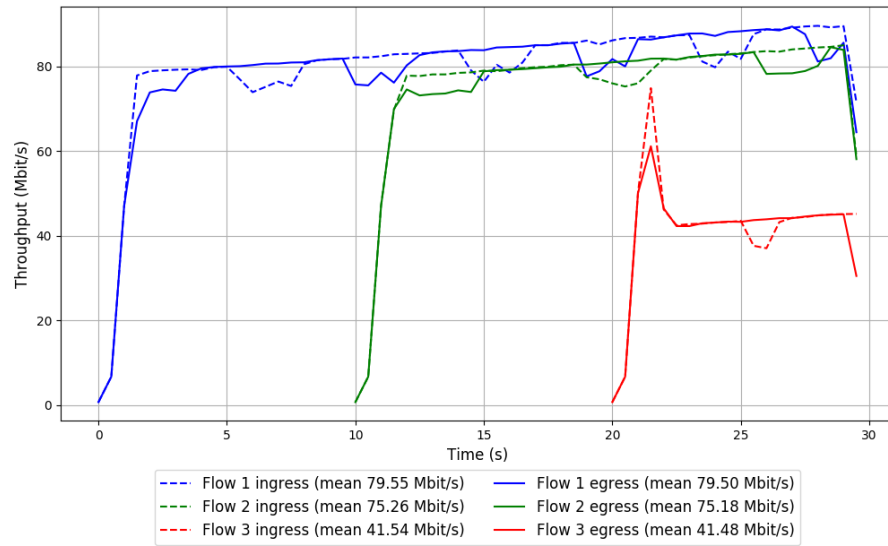


Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 07:50:00
End at: 2017-11-16 07:50:30
Local clock offset: -0.43 ms
Remote clock offset: -6.679 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.98 Mbit/s
95th percentile per-packet one-way delay: 87.639 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 87.593 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 75.18 Mbit/s
95th percentile per-packet one-way delay: 86.167 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 41.48 Mbit/s
95th percentile per-packet one-way delay: 88.703 ms
Loss rate: 1.84%

Run 2: Report of TCP Vegas — Data Link

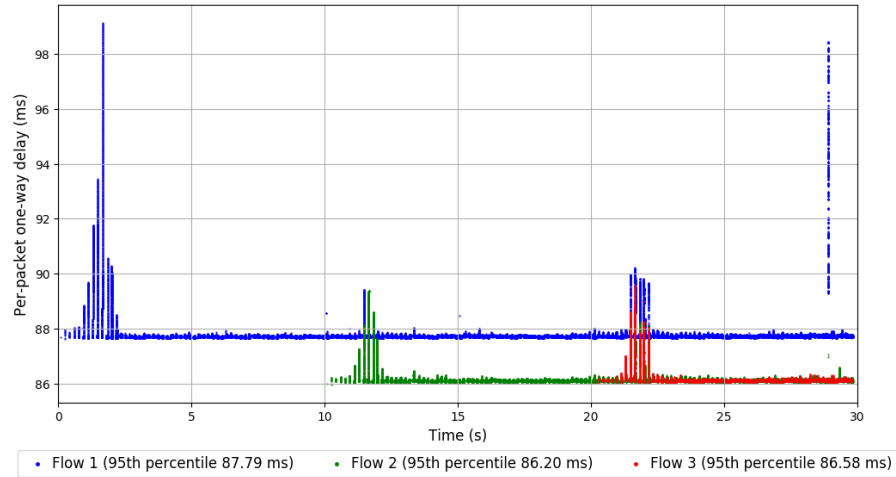
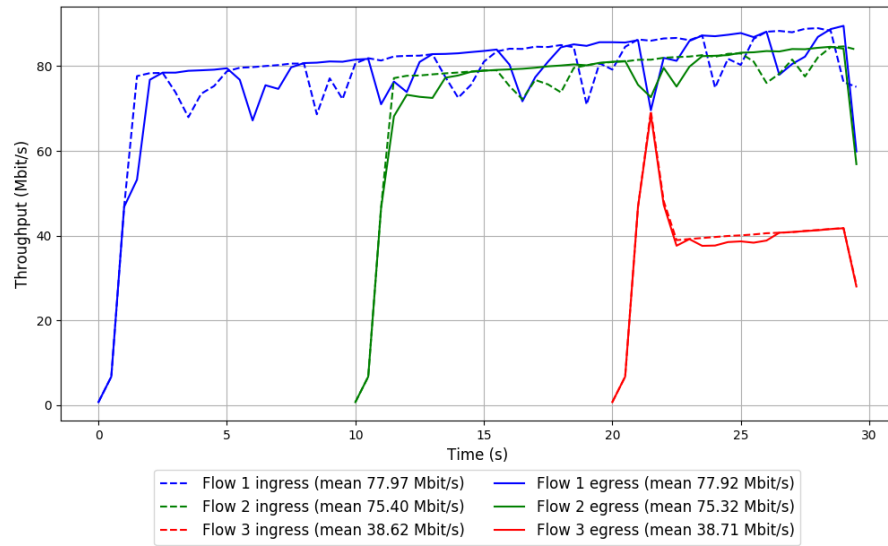


Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 08:10:04
End at: 2017-11-16 08:10:34
Local clock offset: -0.332 ms
Remote clock offset: -4.439 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.52 Mbit/s
95th percentile per-packet one-way delay: 87.767 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 87.794 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 75.32 Mbit/s
95th percentile per-packet one-way delay: 86.199 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 86.577 ms
Loss rate: 1.83%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 08:30:09

End at: 2017-11-16 08:30:39

Local clock offset: -0.277 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2017-11-16 14:40:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.60 Mbit/s

95th percentile per-packet one-way delay: 81.212 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 80.25 Mbit/s

95th percentile per-packet one-way delay: 79.676 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 74.57 Mbit/s

95th percentile per-packet one-way delay: 81.257 ms

Loss rate: 0.95%

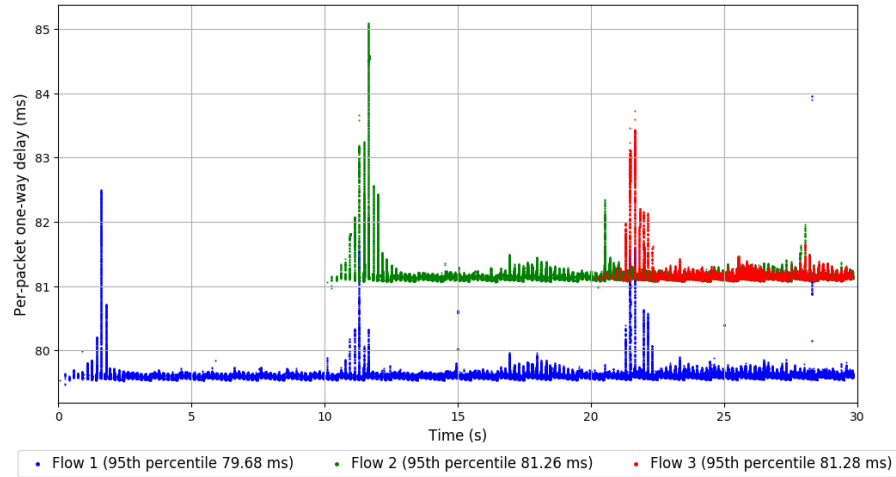
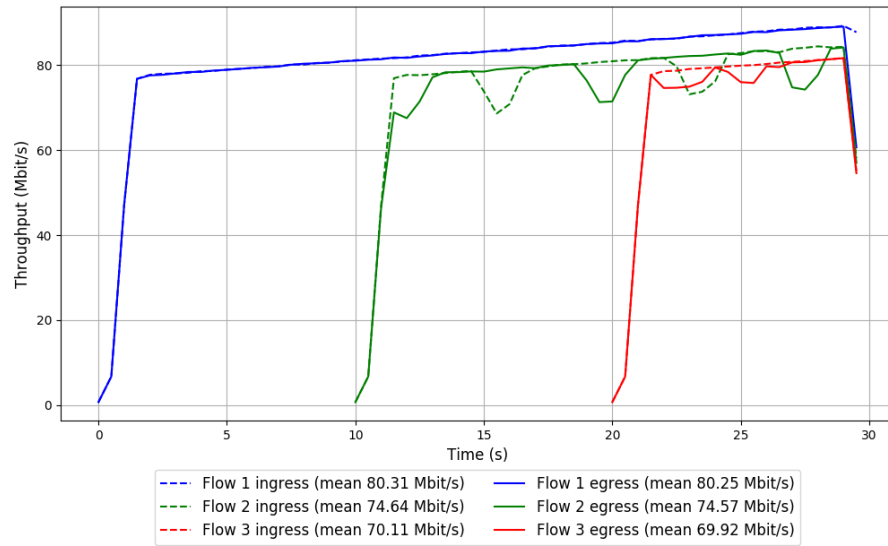
-- Flow 3:

Average throughput: 69.92 Mbit/s

95th percentile per-packet one-way delay: 81.277 ms

Loss rate: 1.97%

Run 4: Report of TCP Vegas — Data Link

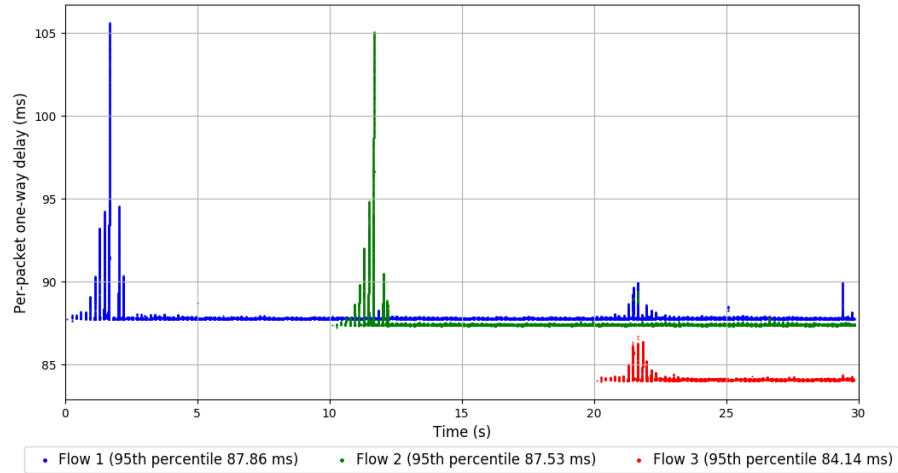
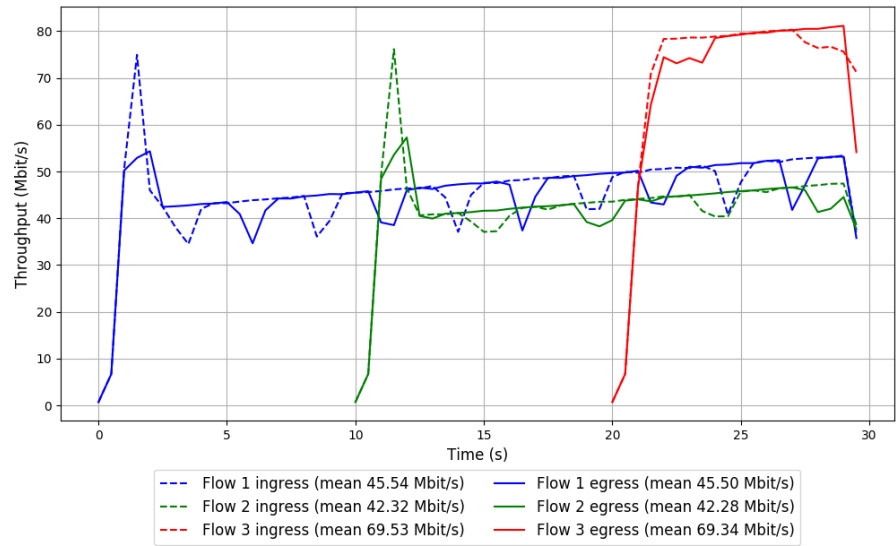


Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 08:50:13
End at: 2017-11-16 08:50:43
Local clock offset: -0.202 ms
Remote clock offset: -3.614 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 87.814 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 87.860 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 87.532 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 69.34 Mbit/s
95th percentile per-packet one-way delay: 84.145 ms
Loss rate: 1.97%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 09:10:19

End at: 2017-11-16 09:10:49

Local clock offset: -0.155 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2017-11-16 14:40:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.86 Mbit/s

95th percentile per-packet one-way delay: 83.216 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 83.253 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 77.57 Mbit/s

95th percentile per-packet one-way delay: 82.891 ms

Loss rate: 0.93%

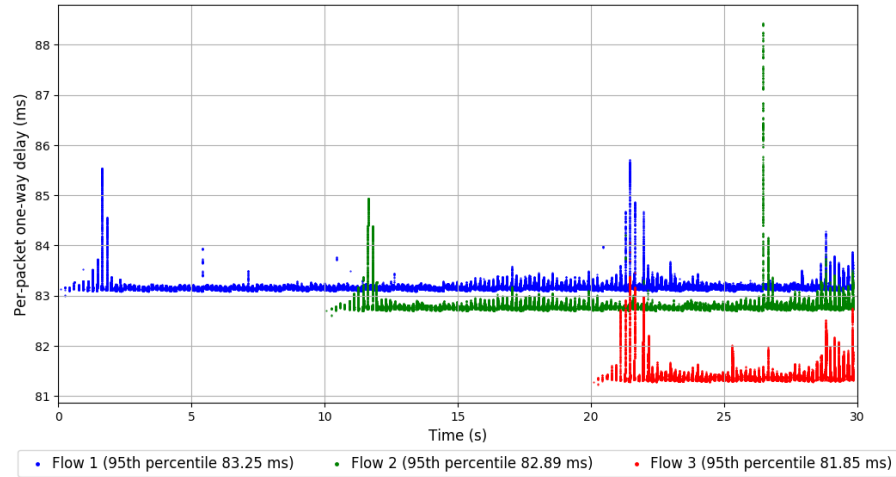
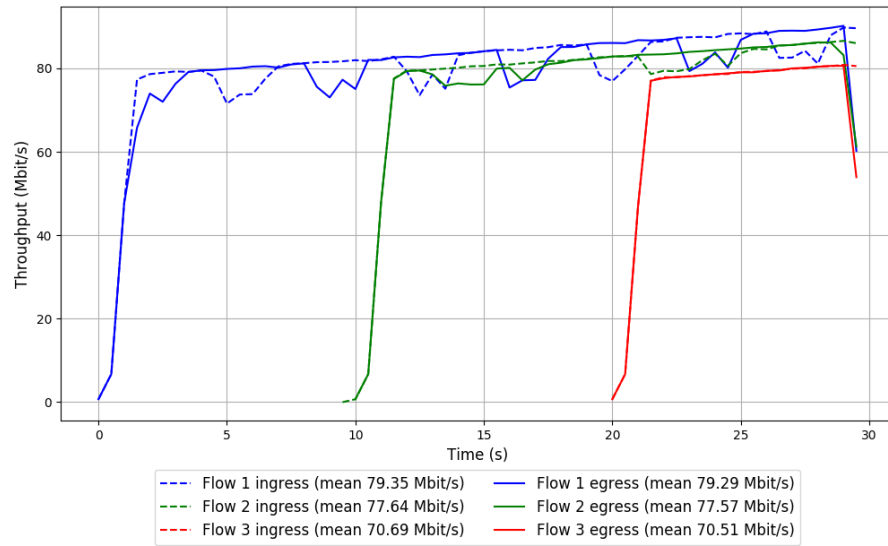
-- Flow 3:

Average throughput: 70.51 Mbit/s

95th percentile per-packet one-way delay: 81.850 ms

Loss rate: 1.93%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 09:30:22

End at: 2017-11-16 09:30:52

Local clock offset: -0.083 ms

Remote clock offset: 0.884 ms

Below is generated by plot.py at 2017-11-16 14:40:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.52 Mbit/s

95th percentile per-packet one-way delay: 83.813 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 81.47 Mbit/s

95th percentile per-packet one-way delay: 83.725 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 83.733 ms

Loss rate: 0.96%

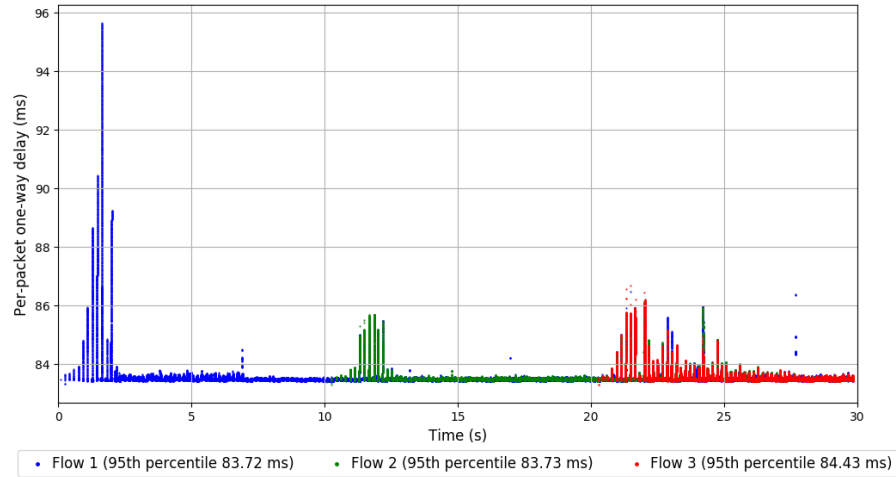
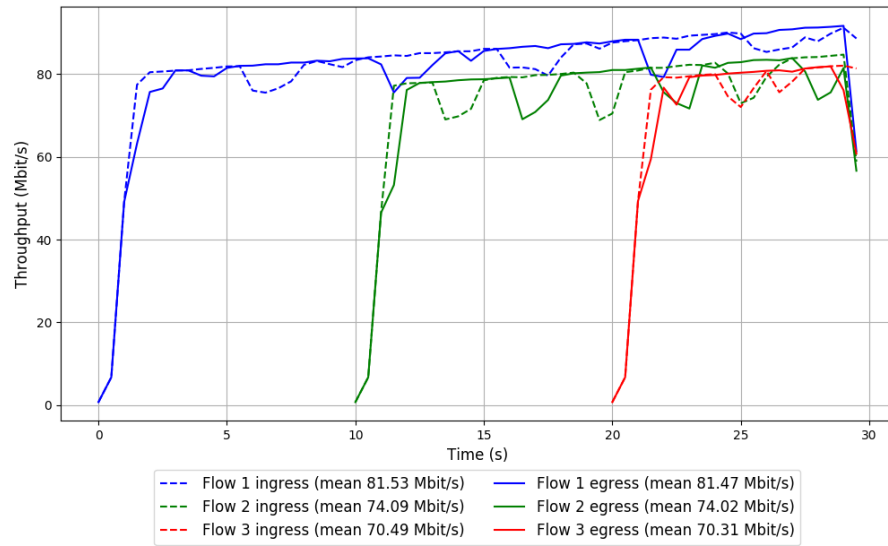
-- Flow 3:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 84.431 ms

Loss rate: 1.96%

Run 7: Report of TCP Vegas — Data Link

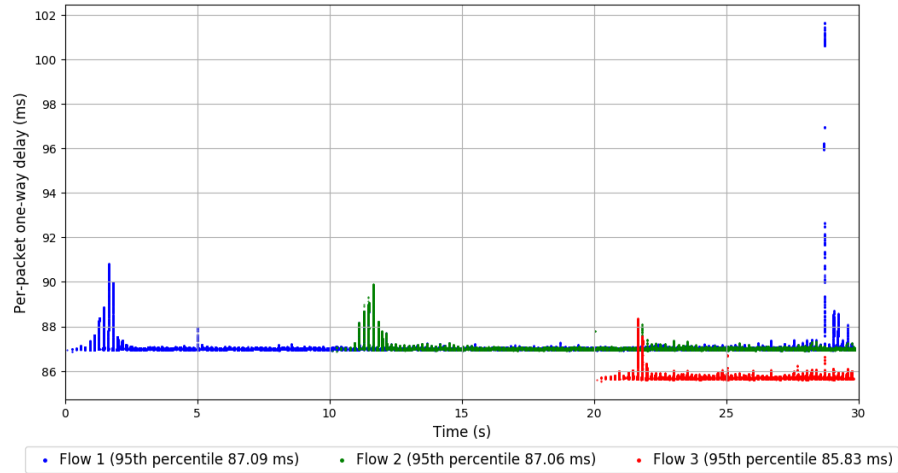
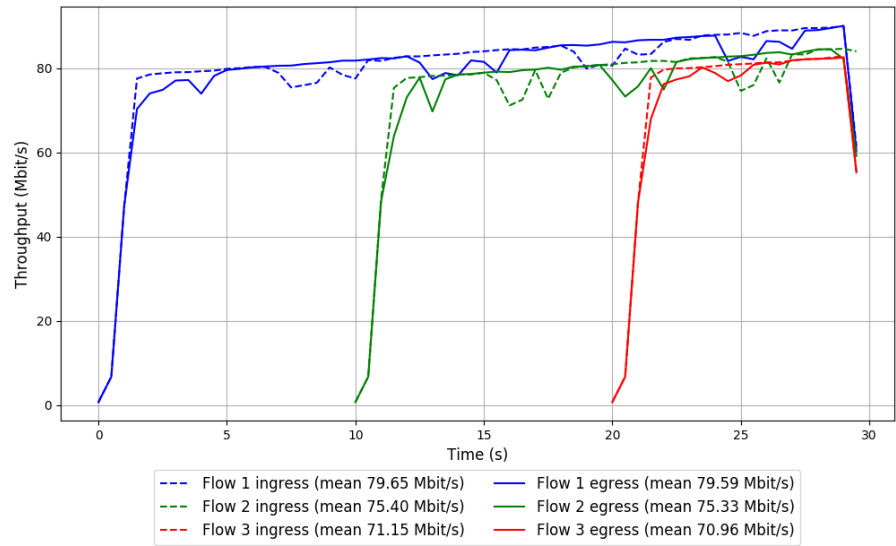


Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 09:50:30
End at: 2017-11-16 09:51:00
Local clock offset: -0.039 ms
Remote clock offset: -4.394 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 152.70 Mbit/s
95th percentile per-packet one-way delay: 87.070 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 87.095 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 87.061 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 70.96 Mbit/s
95th percentile per-packet one-way delay: 85.828 ms
Loss rate: 1.97%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 10:10:39

End at: 2017-11-16 10:11:09

Local clock offset: -0.004 ms

Remote clock offset: 1.124 ms

Below is generated by plot.py at 2017-11-16 14:40:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.81 Mbit/s

95th percentile per-packet one-way delay: 83.307 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 81.496 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 83.413 ms

Loss rate: 0.95%

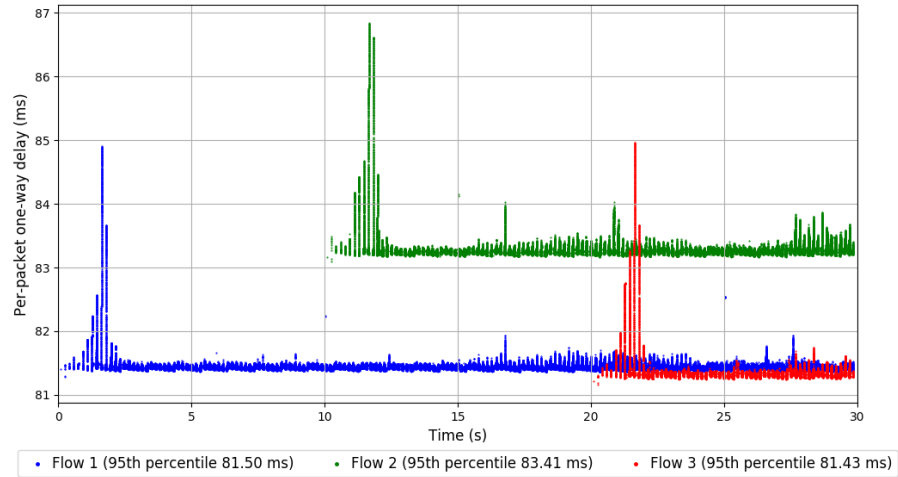
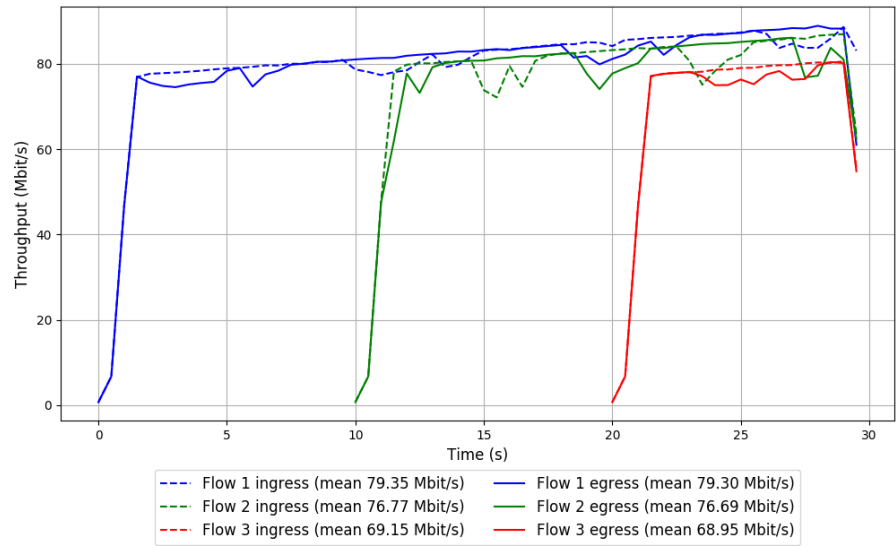
-- Flow 3:

Average throughput: 68.95 Mbit/s

95th percentile per-packet one-way delay: 81.434 ms

Loss rate: 1.96%

Run 9: Report of TCP Vegas — Data Link

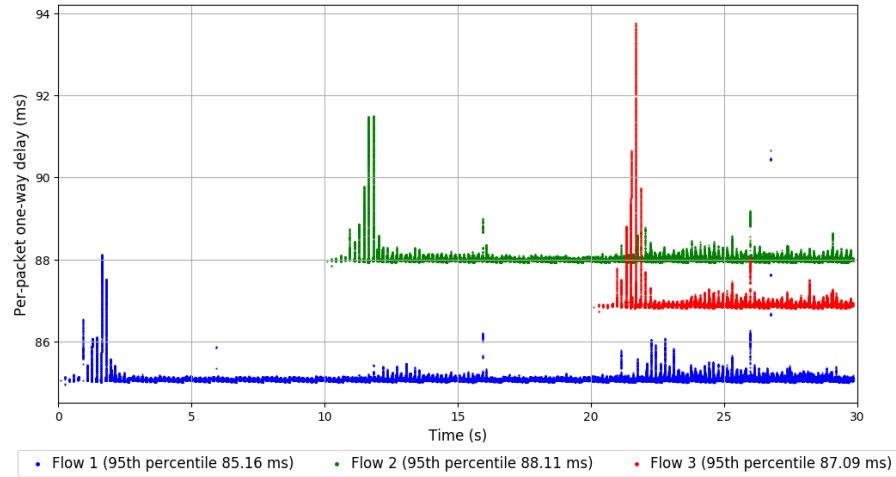
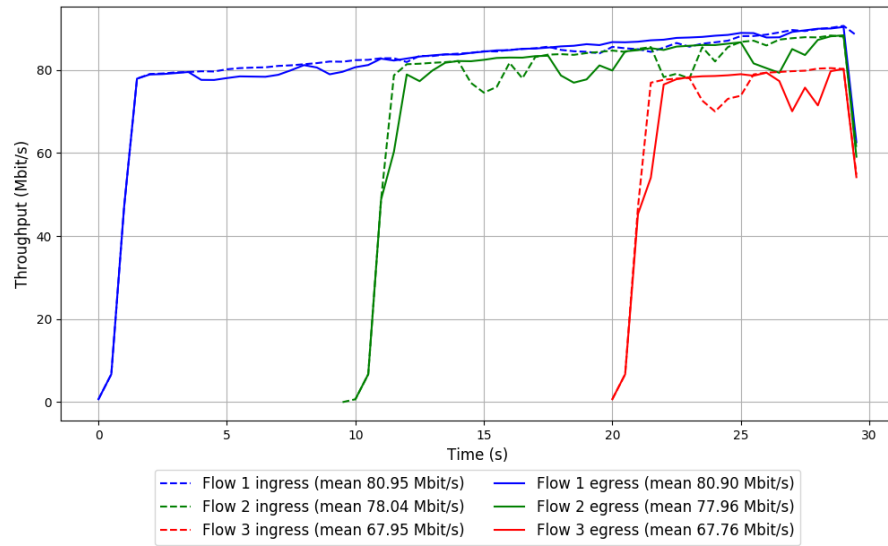


Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 10:30:41
End at: 2017-11-16 10:31:11
Local clock offset: 0.042 ms
Remote clock offset: -4.347 ms

Below is generated by plot.py at 2017-11-16 14:40:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 154.79 Mbit/s
95th percentile per-packet one-way delay: 88.051 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 80.90 Mbit/s
95th percentile per-packet one-way delay: 85.160 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 77.96 Mbit/s
95th percentile per-packet one-way delay: 88.109 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 67.76 Mbit/s
95th percentile per-packet one-way delay: 87.093 ms
Loss rate: 2.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-16 07:34:06

End at: 2017-11-16 07:34:36

Local clock offset: -0.502 ms

Remote clock offset: -2.24 ms

Below is generated by plot.py at 2017-11-16 14:40:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 367.61 Mbit/s

95th percentile per-packet one-way delay: 114.226 ms

Loss rate: 6.56%

-- Flow 1:

Average throughput: 238.76 Mbit/s

95th percentile per-packet one-way delay: 122.191 ms

Loss rate: 4.65%

-- Flow 2:

Average throughput: 106.94 Mbit/s

95th percentile per-packet one-way delay: 102.845 ms

Loss rate: 7.59%

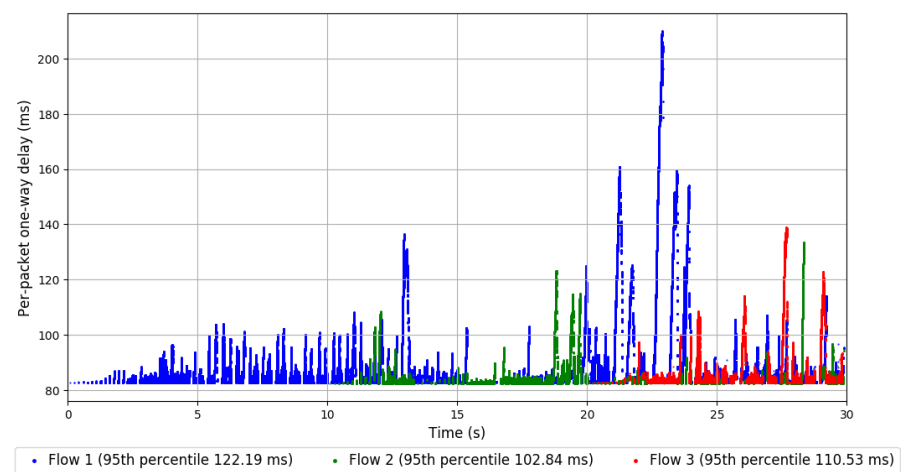
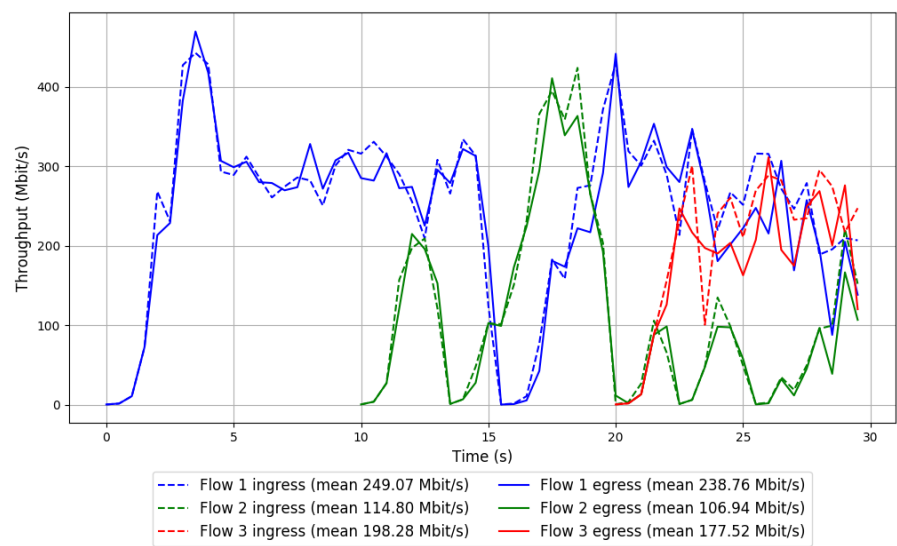
-- Flow 3:

Average throughput: 177.52 Mbit/s

95th percentile per-packet one-way delay: 110.534 ms

Loss rate: 12.58%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

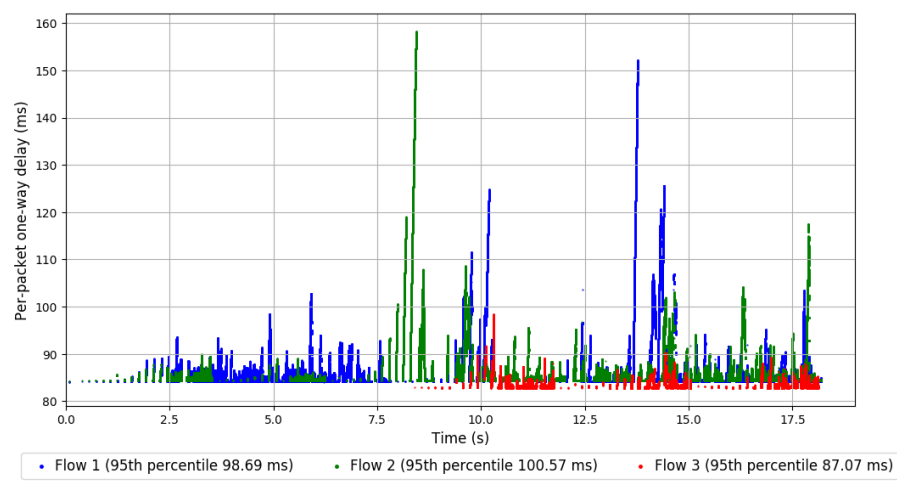
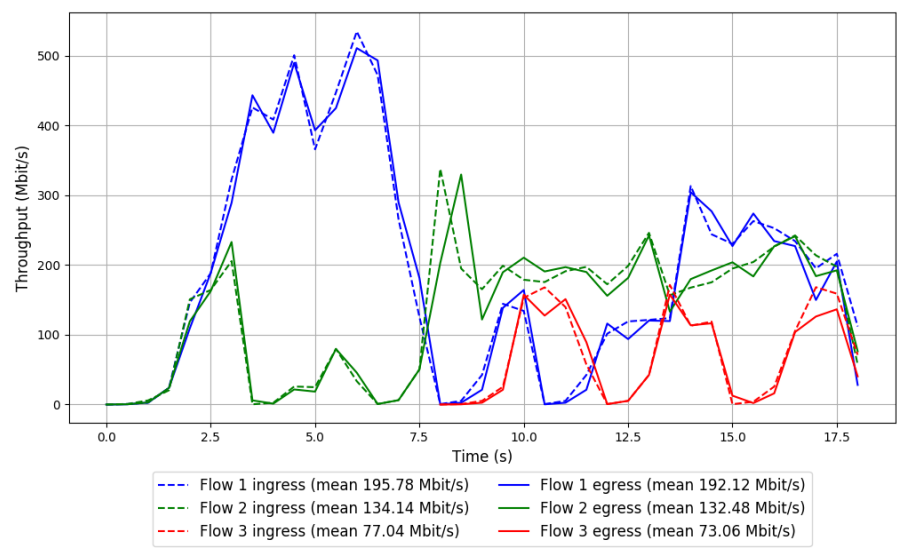
Start at: 2017-11-16 07:54:19

End at: 2017-11-16 07:54:49

Local clock offset: -0.401 ms

Remote clock offset: -1.597 ms

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

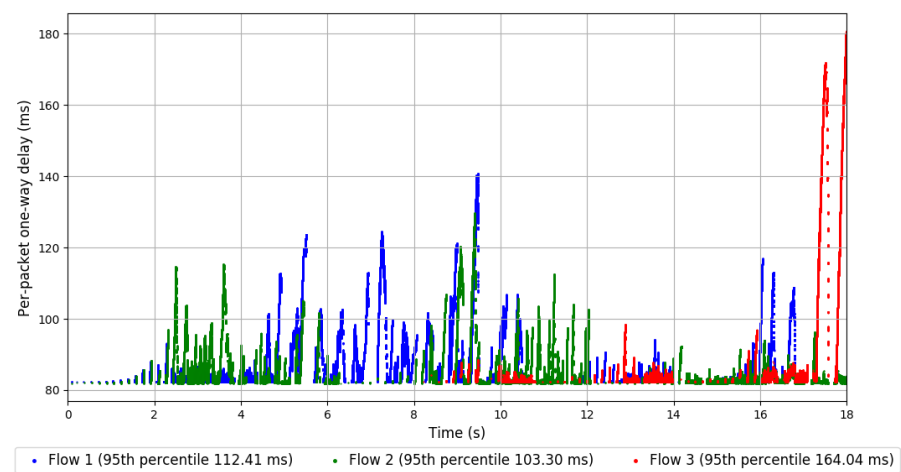
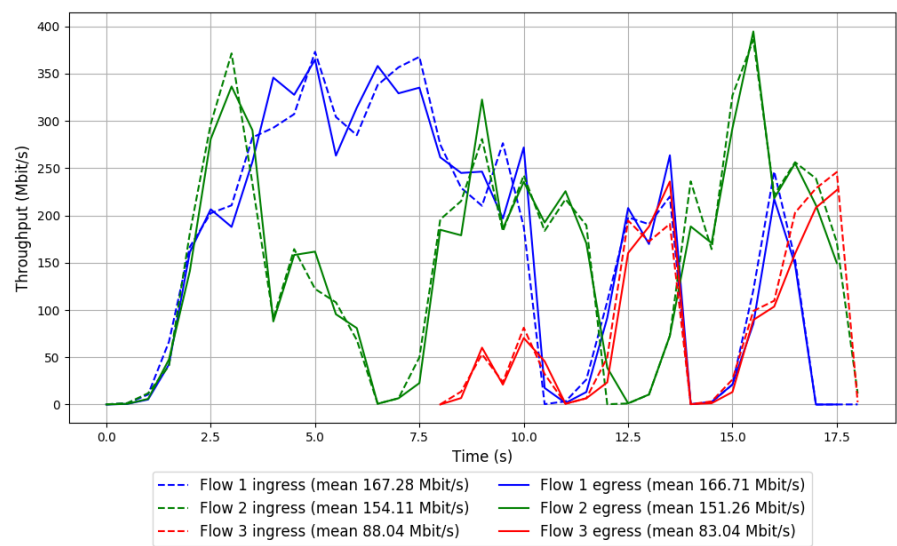
Start at: 2017-11-16 08:14:23

End at: 2017-11-16 08:14:53

Local clock offset: -0.382 ms

Remote clock offset: -0.043 ms

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

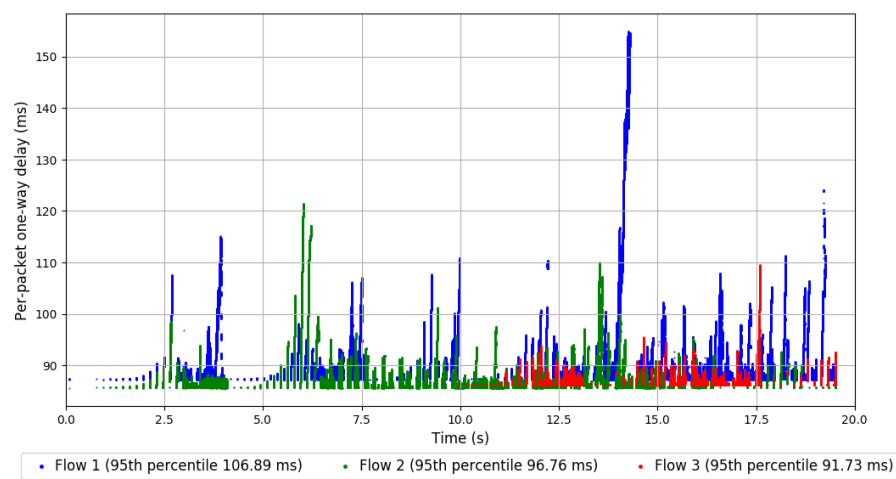
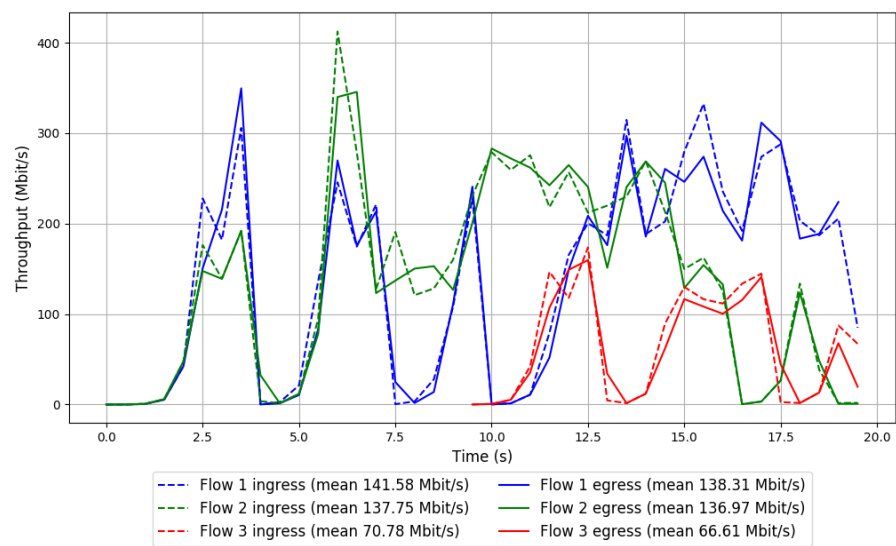
Start at: 2017-11-16 08:34:29

End at: 2017-11-16 08:34:59

Local clock offset: -0.25 ms

Remote clock offset: -3.29 ms

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

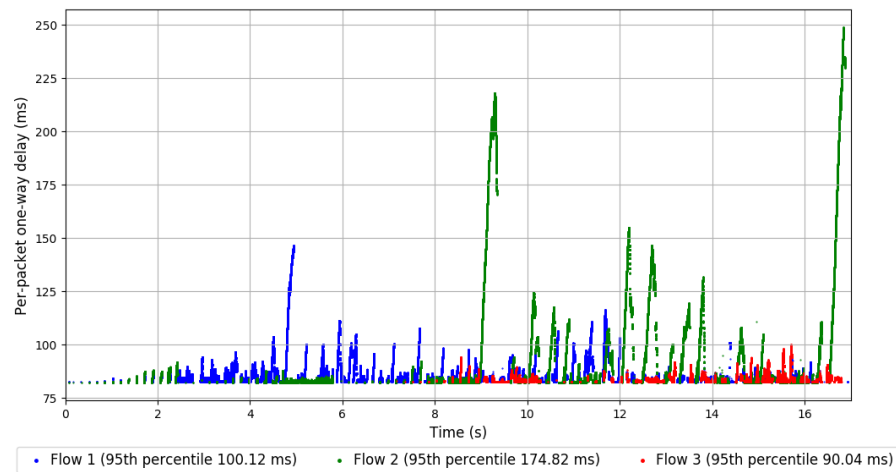
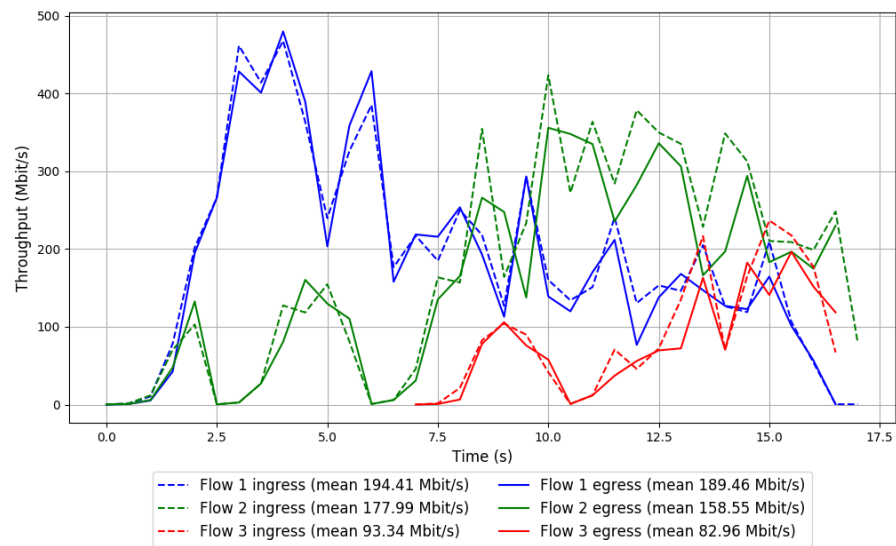
Start at: 2017-11-16 08:54:30

End at: 2017-11-16 08:55:00

Local clock offset: -0.154 ms

Remote clock offset: 0.033 ms

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

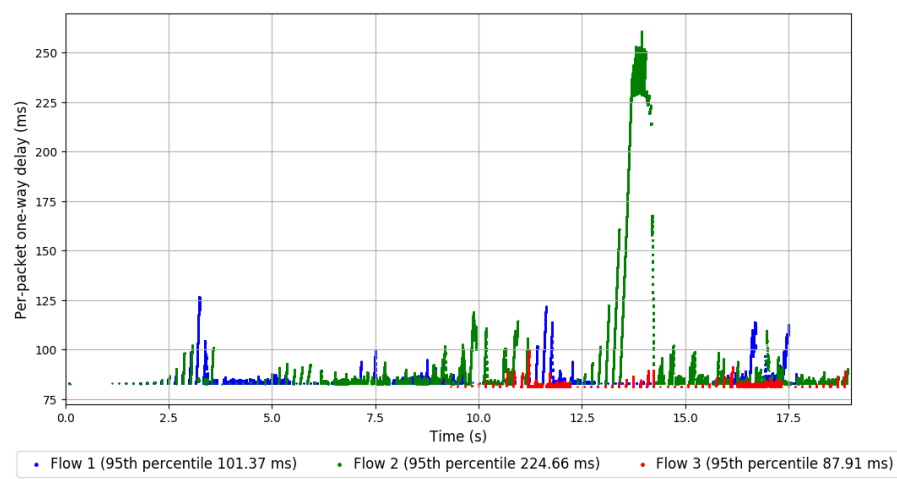
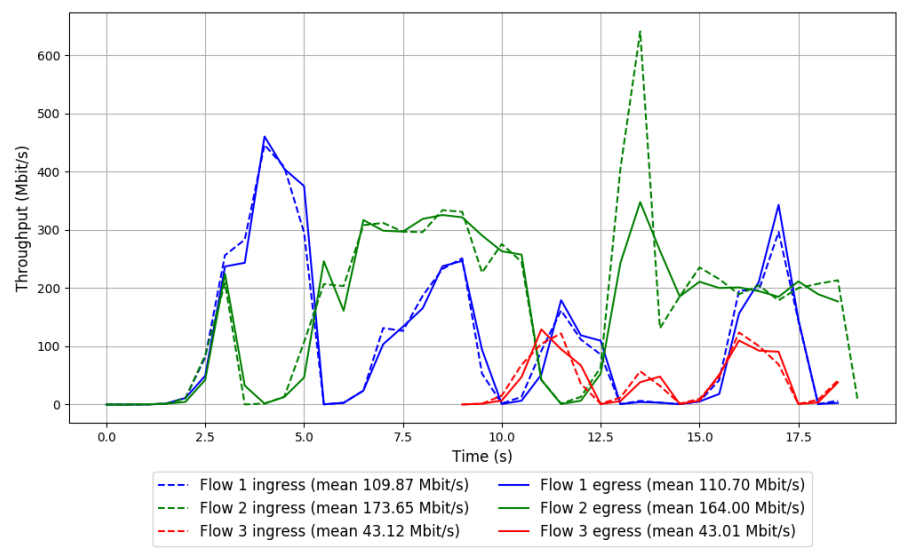
Start at: 2017-11-16 09:14:39

End at: 2017-11-16 09:15:09

Local clock offset: -0.121 ms

Remote clock offset: 1.404 ms

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

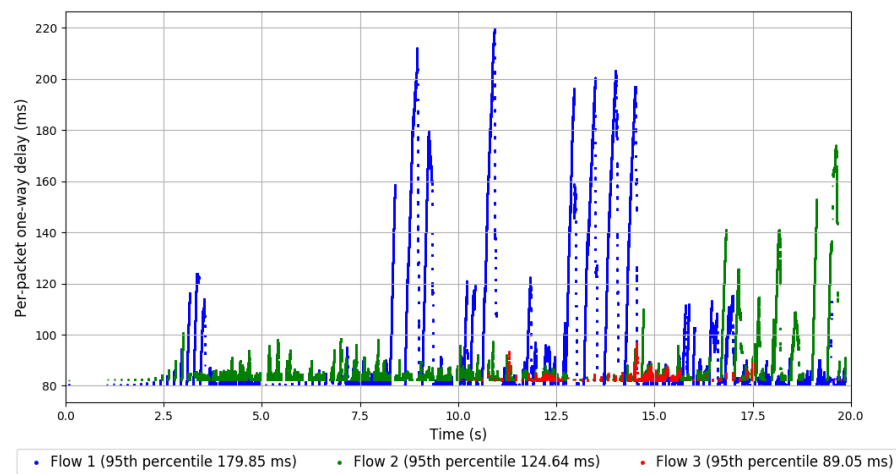
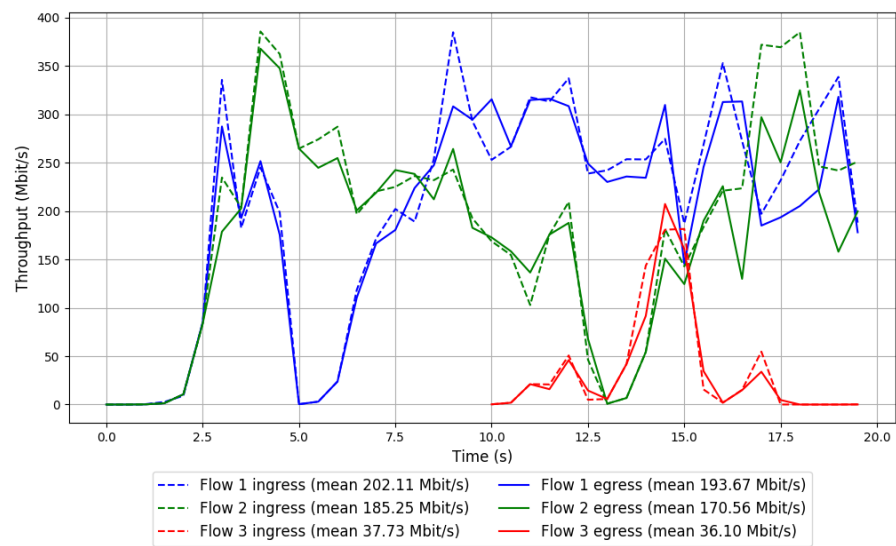
Start at: 2017-11-16 09:34:42

End at: 2017-11-16 09:35:12

Local clock offset: -0.095 ms

Remote clock offset: 0.574 ms

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

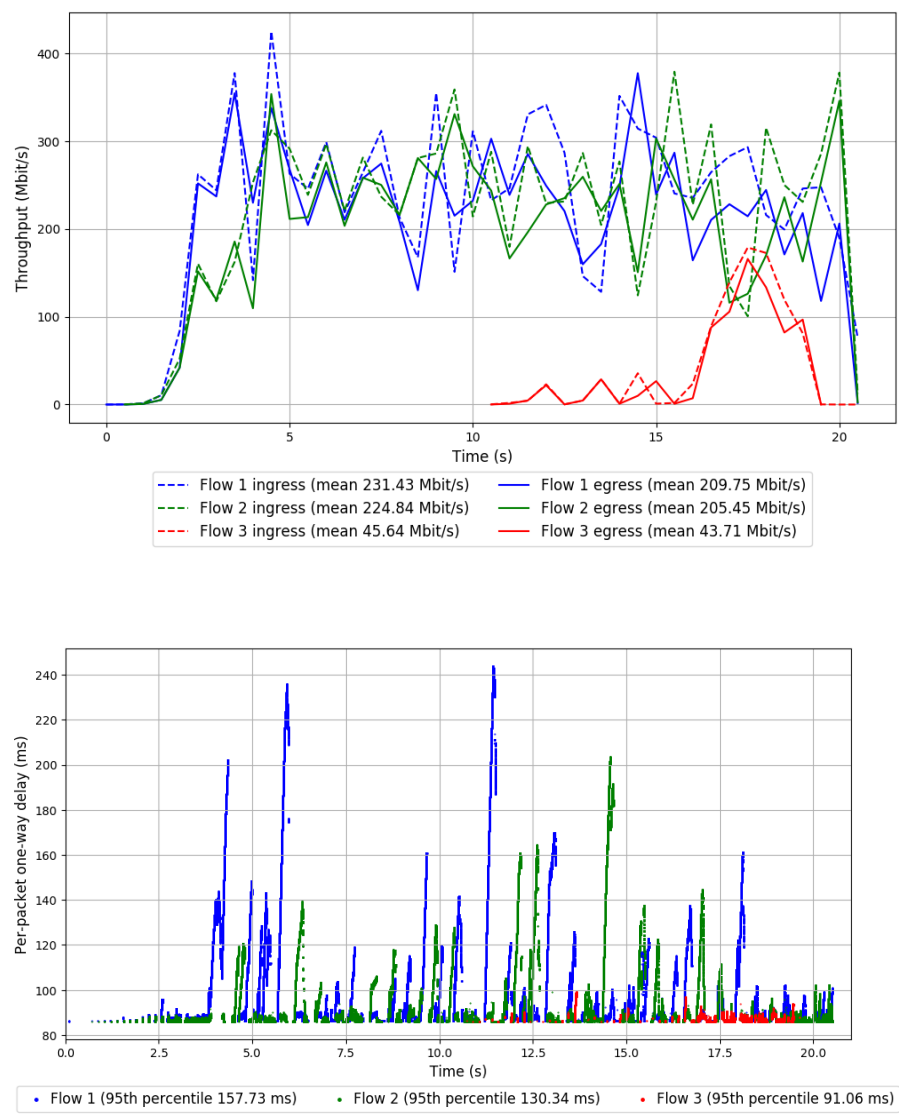
Start at: 2017-11-16 09:54:51

End at: 2017-11-16 09:55:21

Local clock offset: -0.084 ms

Remote clock offset: -3.48 ms

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

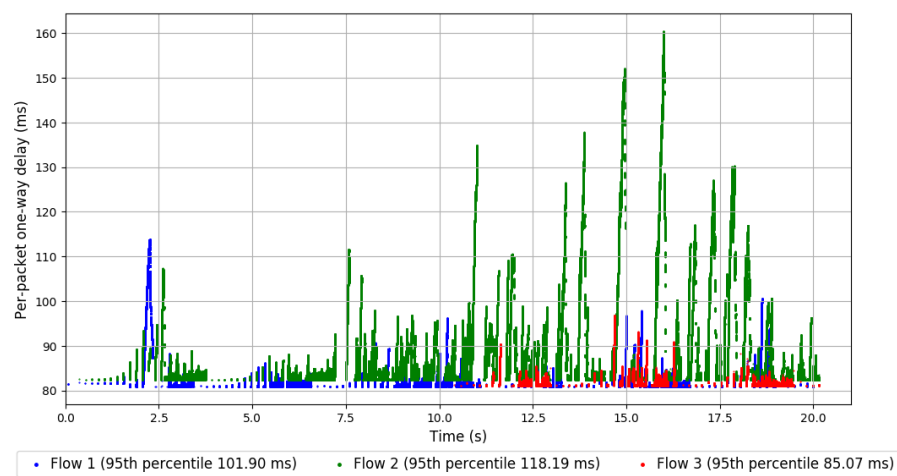
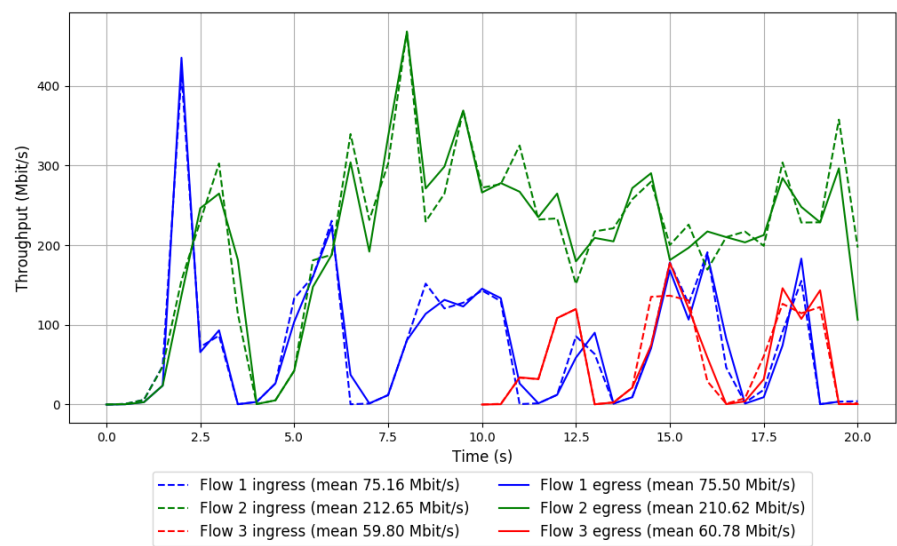
Start at: 2017-11-16 10:14:59

End at: 2017-11-16 10:15:29

Local clock offset: -0.035 ms

Remote clock offset: -0.171 ms

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 10:35:01

End at: 2017-11-16 10:35:31

Local clock offset: -0.032 ms

Remote clock offset: 0.476 ms

Below is generated by plot.py at 2017-11-16 14:43:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.10 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 3.96%

-- Flow 1:

Average throughput: 228.59 Mbit/s

95th percentile per-packet one-way delay: 115.359 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 137.55 Mbit/s

95th percentile per-packet one-way delay: 115.504 ms

Loss rate: 6.88%

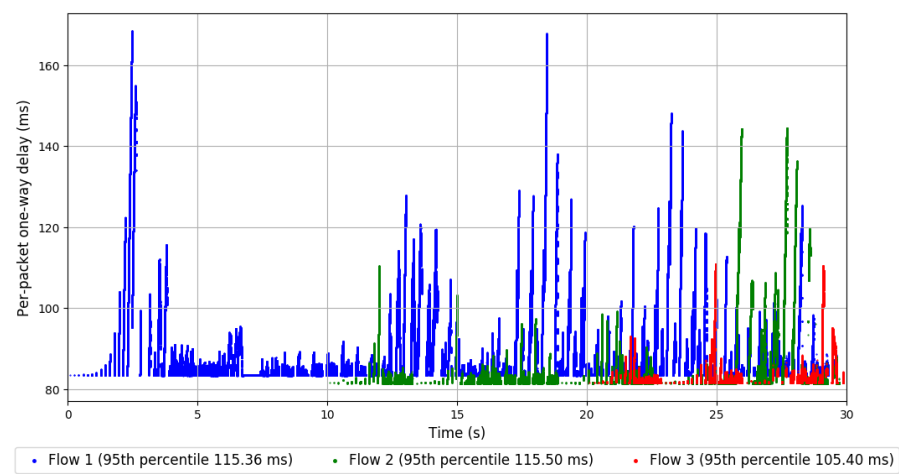
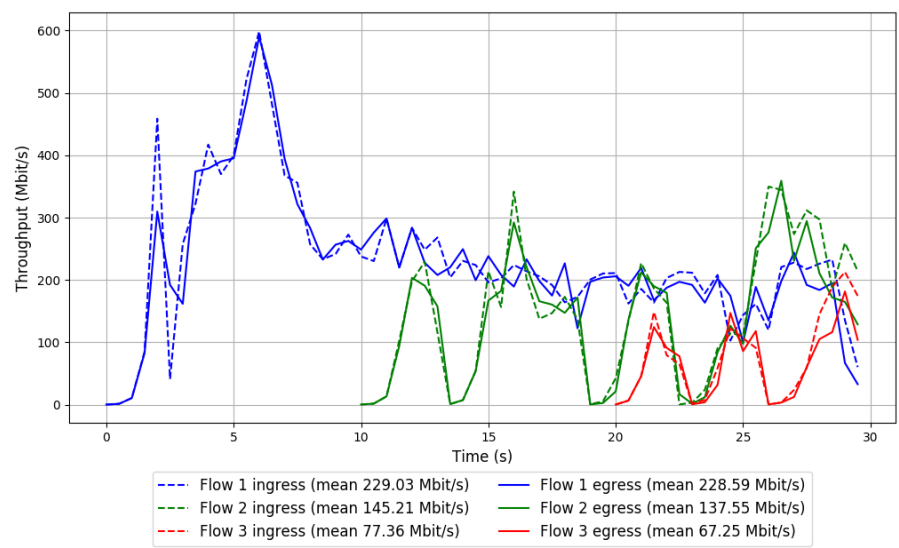
-- Flow 3:

Average throughput: 67.25 Mbit/s

95th percentile per-packet one-way delay: 105.398 ms

Loss rate: 14.54%

Run 10: Report of Verus — Data Link

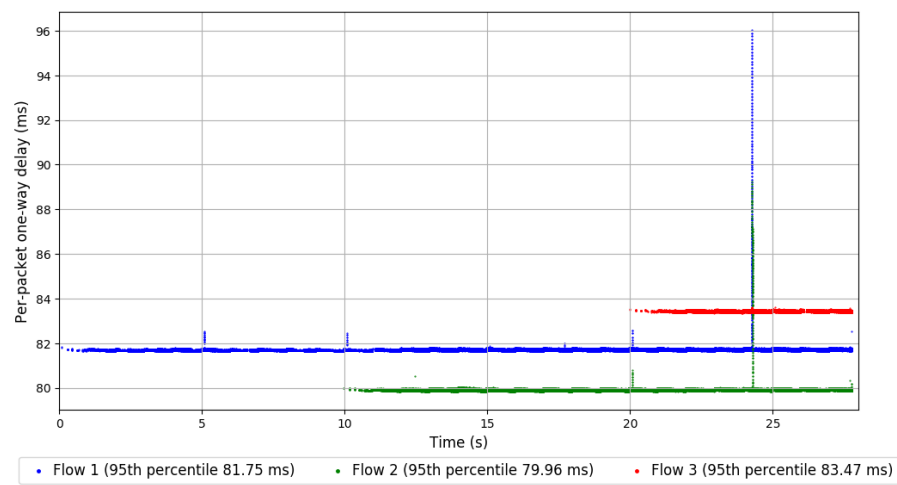
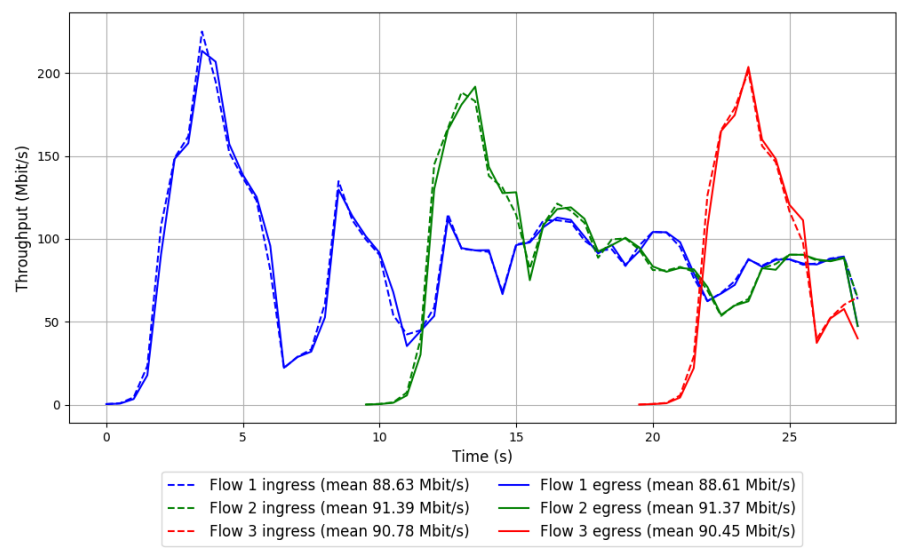


Run 1: Statistics of Copa

Start at: 2017-11-16 07:20:56
End at: 2017-11-16 07:21:26
Local clock offset: -0.492 ms
Remote clock offset: -1.525 ms

Below is generated by plot.py at 2017-11-16 14:43:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 172.70 Mbit/s
95th percentile per-packet one-way delay: 83.441 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 81.750 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 79.958 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 83.474 ms
Loss rate: 2.52%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 07:41:05

End at: 2017-11-16 07:41:35

Local clock offset: -0.485 ms

Remote clock offset: -6.01 ms

Below is generated by plot.py at 2017-11-16 14:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.81 Mbit/s

95th percentile per-packet one-way delay: 88.179 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 86.597 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 88.194 ms

Loss rate: 1.05%

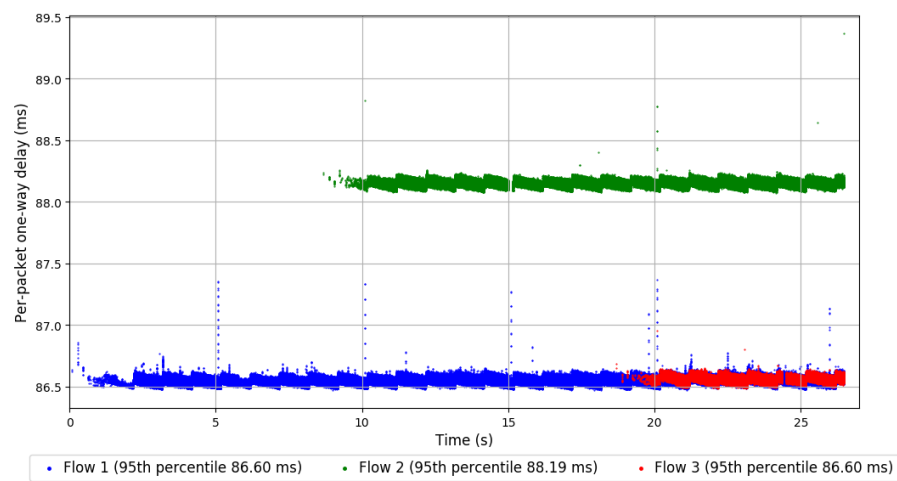
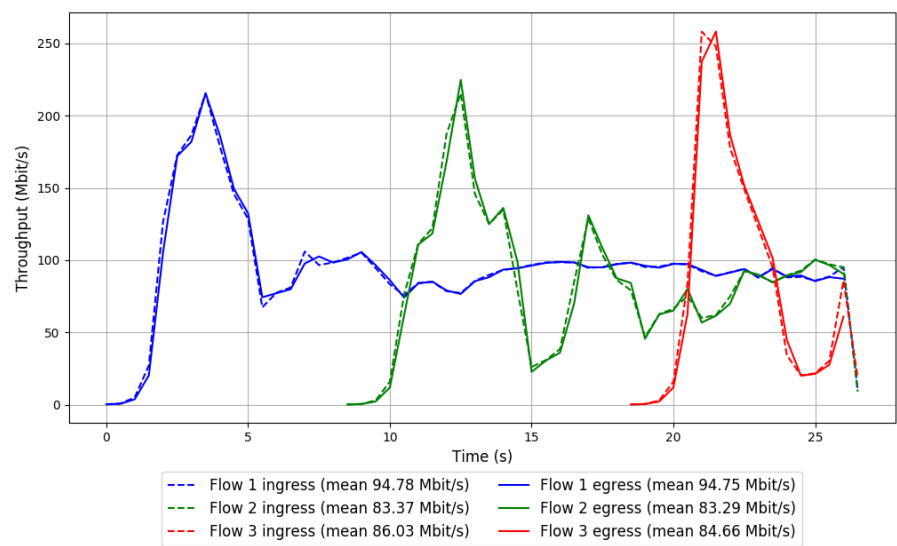
-- Flow 3:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 86.604 ms

Loss rate: 3.70%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 08:01:06

End at: 2017-11-16 08:01:36

Local clock offset: -0.396 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2017-11-16 14:44:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.60 Mbit/s

95th percentile per-packet one-way delay: 82.929 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 92.69 Mbit/s

95th percentile per-packet one-way delay: 81.207 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 82.739 ms

Loss rate: 0.92%

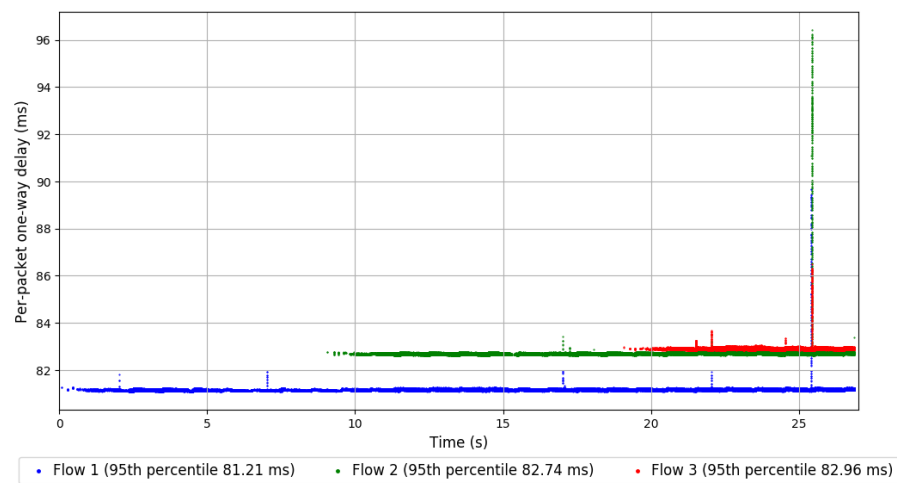
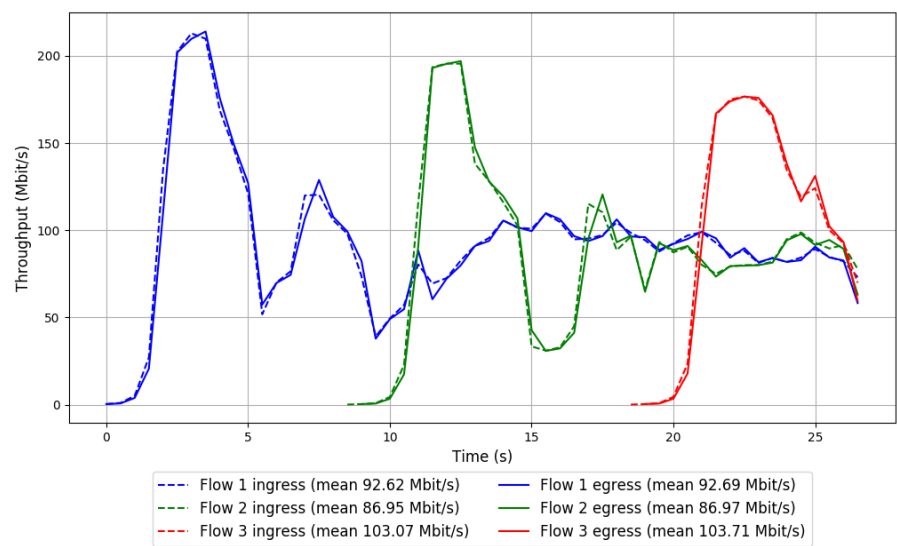
-- Flow 3:

Average throughput: 103.71 Mbit/s

95th percentile per-packet one-way delay: 82.962 ms

Loss rate: 1.57%

Run 3: Report of Copa — Data Link

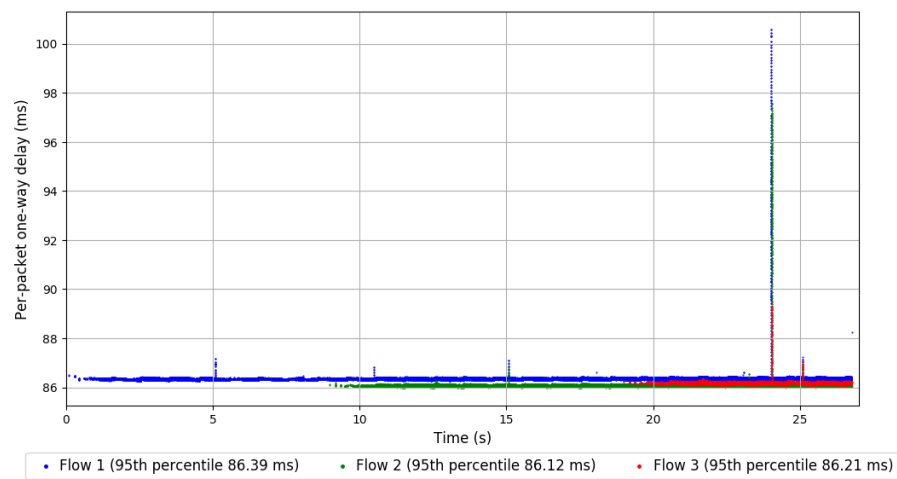
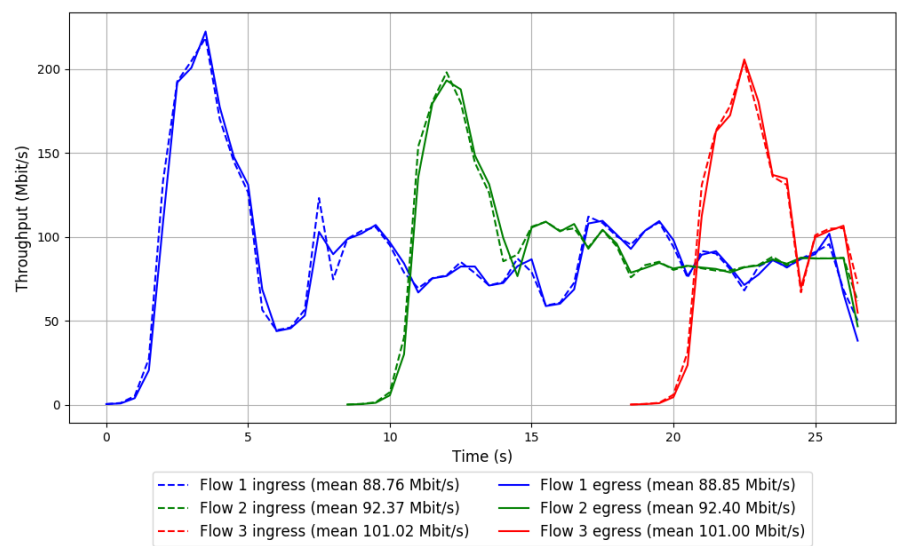


Run 4: Statistics of Copa

Start at: 2017-11-16 08:21:11
End at: 2017-11-16 08:21:41
Local clock offset: -0.316 ms
Remote clock offset: -4.185 ms

Below is generated by plot.py at 2017-11-16 14:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 179.86 Mbit/s
95th percentile per-packet one-way delay: 86.382 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 86.392 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 86.120 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 101.00 Mbit/s
95th percentile per-packet one-way delay: 86.214 ms
Loss rate: 2.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 08:41:18

End at: 2017-11-16 08:41:48

Local clock offset: -0.318 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2017-11-16 14:45:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.90 Mbit/s

95th percentile per-packet one-way delay: 83.852 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 81.861 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 83.867 ms

Loss rate: 0.94%

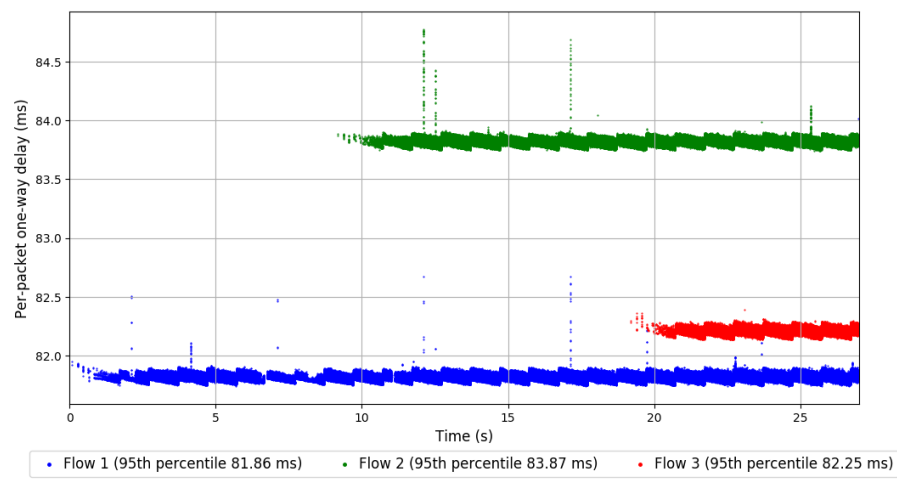
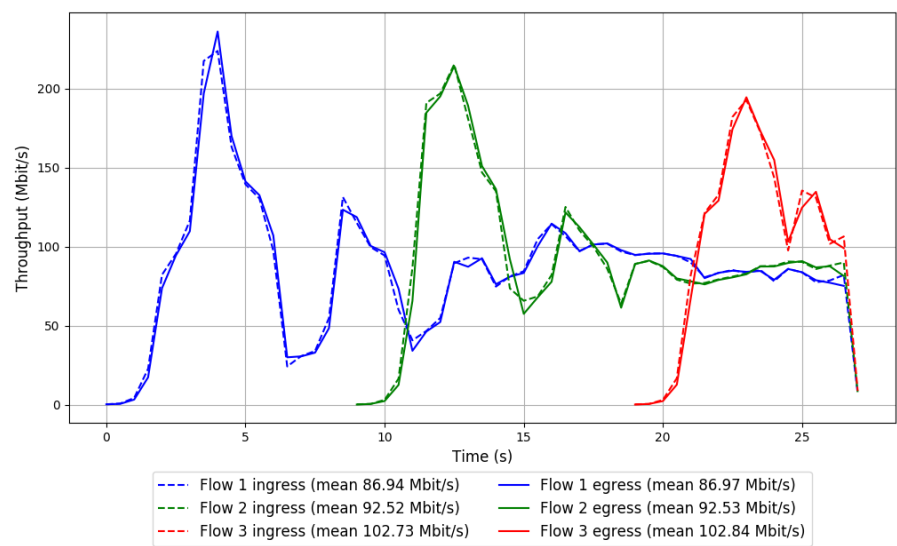
-- Flow 3:

Average throughput: 102.84 Mbit/s

95th percentile per-packet one-way delay: 82.253 ms

Loss rate: 2.03%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-16 09:01:22

End at: 2017-11-16 09:01:52

Local clock offset: -0.193 ms

Remote clock offset: -3.49 ms

Below is generated by plot.py at 2017-11-16 14:45:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.65 Mbit/s

95th percentile per-packet one-way delay: 85.766 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 75.49 Mbit/s

95th percentile per-packet one-way delay: 84.455 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 85.779 ms

Loss rate: 1.15%

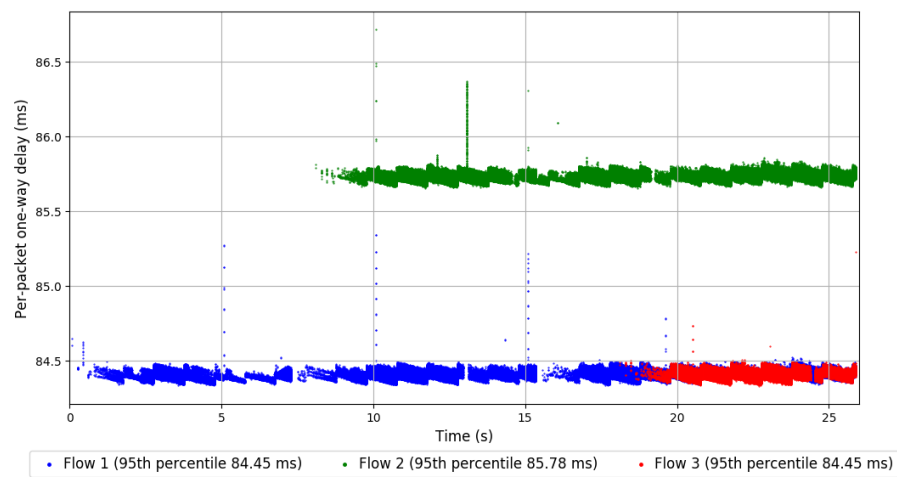
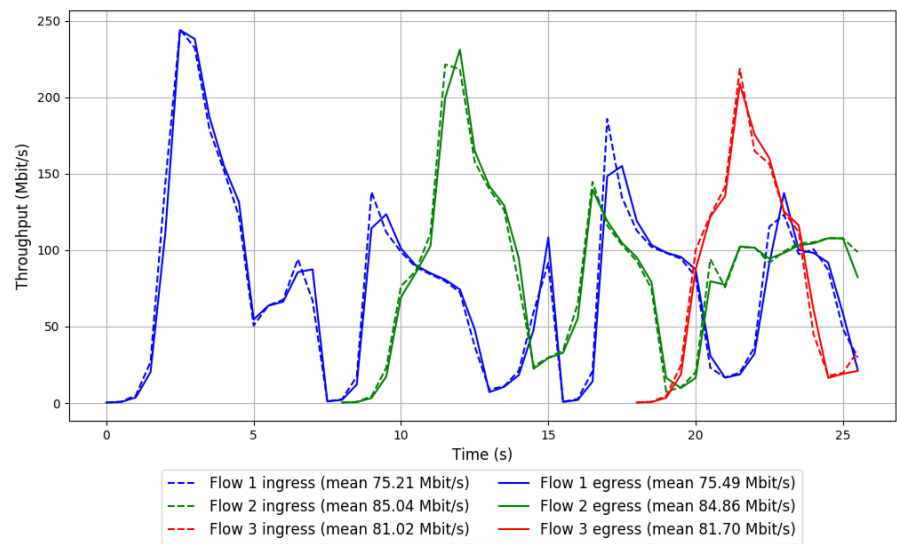
-- Flow 3:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 84.454 ms

Loss rate: 1.29%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 09:21:26

End at: 2017-11-16 09:21:56

Local clock offset: -0.086 ms

Remote clock offset: 0.573 ms

Below is generated by plot.py at 2017-11-16 14:47:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.10 Mbit/s

95th percentile per-packet one-way delay: 84.186 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 82.205 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 86.66 Mbit/s

95th percentile per-packet one-way delay: 82.511 ms

Loss rate: 0.81%

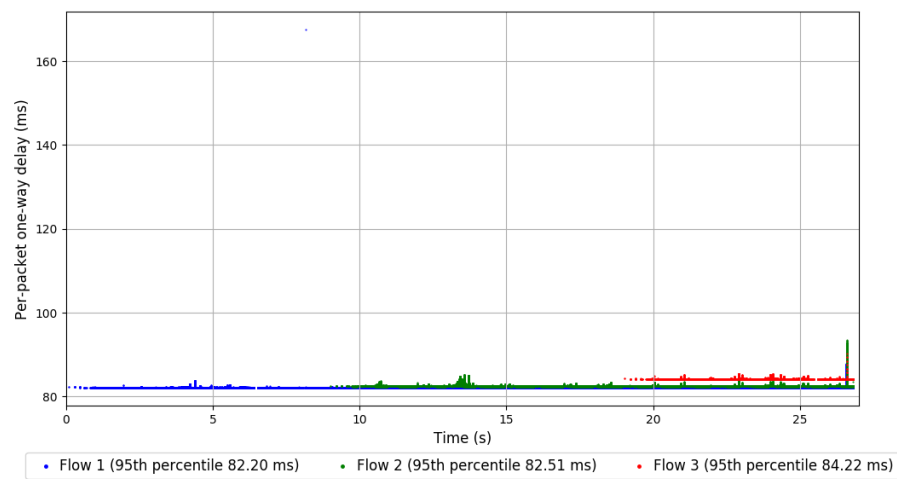
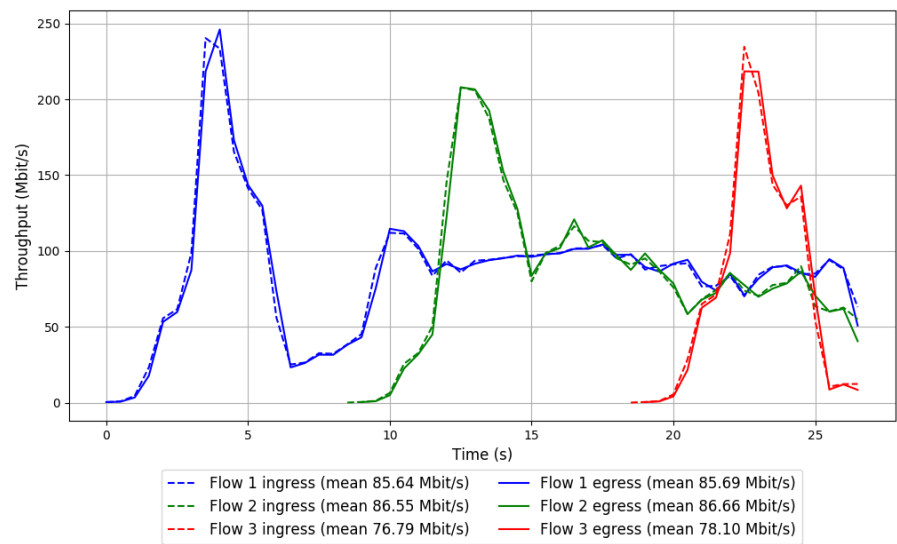
-- Flow 3:

Average throughput: 78.10 Mbit/s

95th percentile per-packet one-way delay: 84.222 ms

Loss rate: 0.50%

Run 7: Report of Copa — Data Link

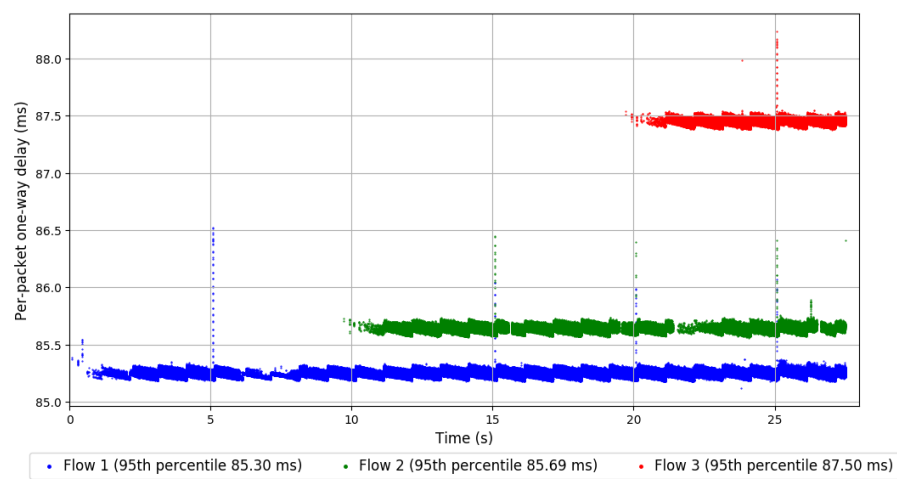
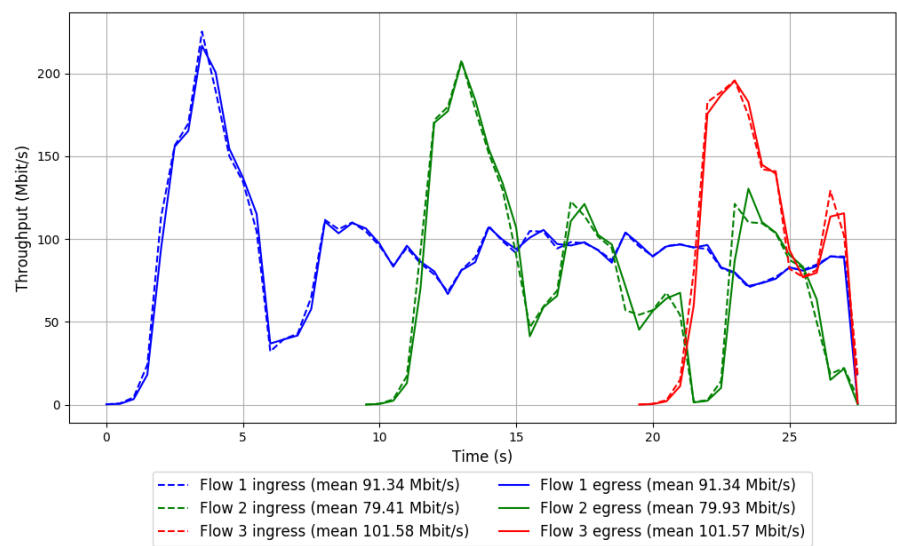


Run 8: Statistics of Copa

Start at: 2017-11-16 09:41:36
End at: 2017-11-16 09:42:06
Local clock offset: -0.05 ms
Remote clock offset: -4.313 ms

Below is generated by plot.py at 2017-11-16 14:47:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.99 Mbit/s
95th percentile per-packet one-way delay: 87.467 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 91.34 Mbit/s
95th percentile per-packet one-way delay: 85.299 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 85.688 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 101.57 Mbit/s
95th percentile per-packet one-way delay: 87.496 ms
Loss rate: 2.15%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 10:01:45

End at: 2017-11-16 10:02:15

Local clock offset: -0.023 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2017-11-16 14:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.25 Mbit/s

95th percentile per-packet one-way delay: 84.033 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 80.749 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 80.739 ms

Loss rate: 0.89%

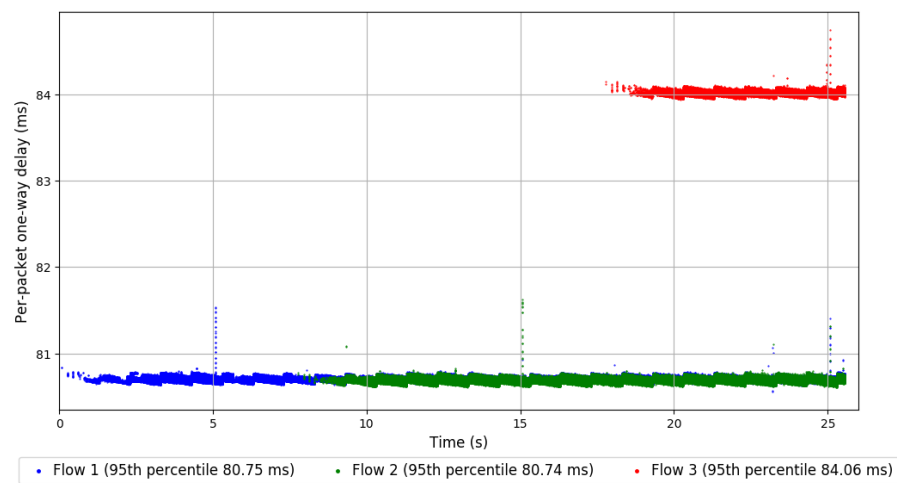
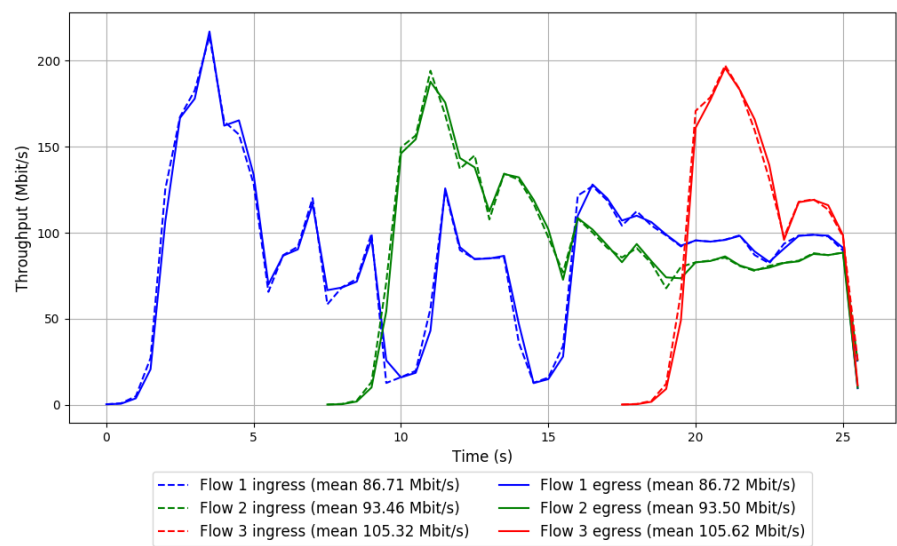
-- Flow 3:

Average throughput: 105.62 Mbit/s

95th percentile per-packet one-way delay: 84.060 ms

Loss rate: 1.88%

Run 9: Report of Copa — Data Link

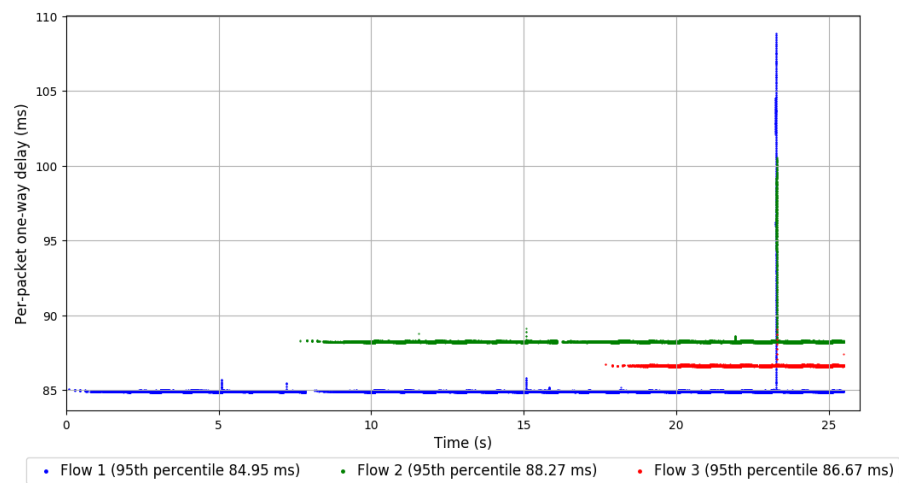
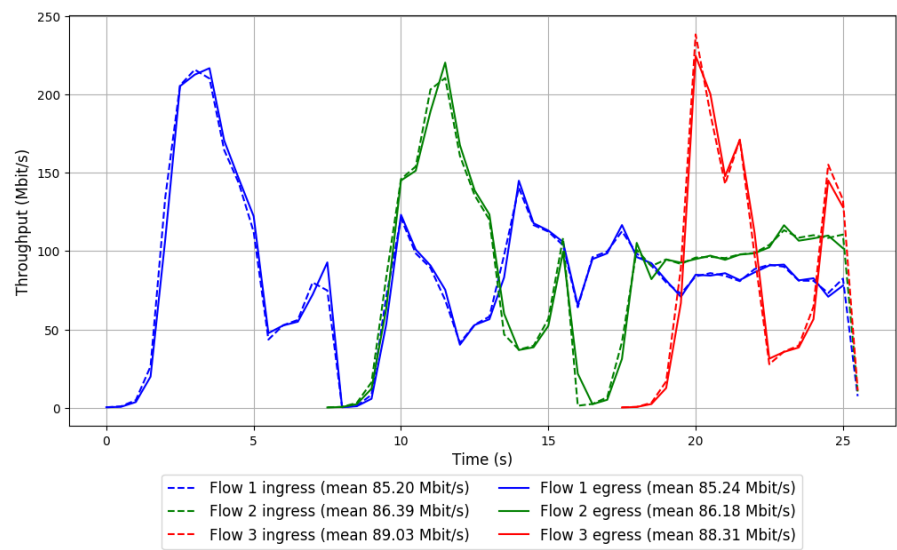


Run 10: Statistics of Copa

Start at: 2017-11-16 10:21:48
End at: 2017-11-16 10:22:18
Local clock offset: 0.03 ms
Remote clock offset: -4.184 ms

Below is generated by plot.py at 2017-11-16 14:47:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 172.70 Mbit/s
95th percentile per-packet one-way delay: 88.259 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 84.955 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 88.274 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 86.667 ms
Loss rate: 2.92%

Run 10: Report of Copa — Data Link

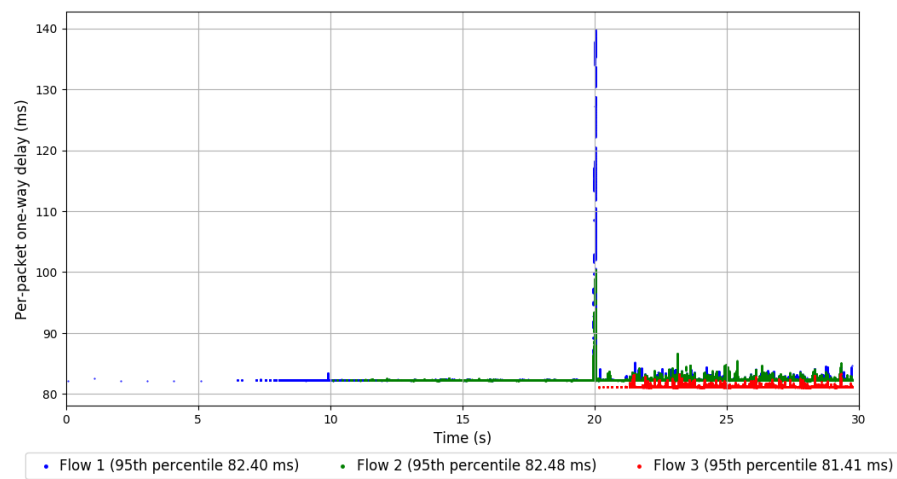
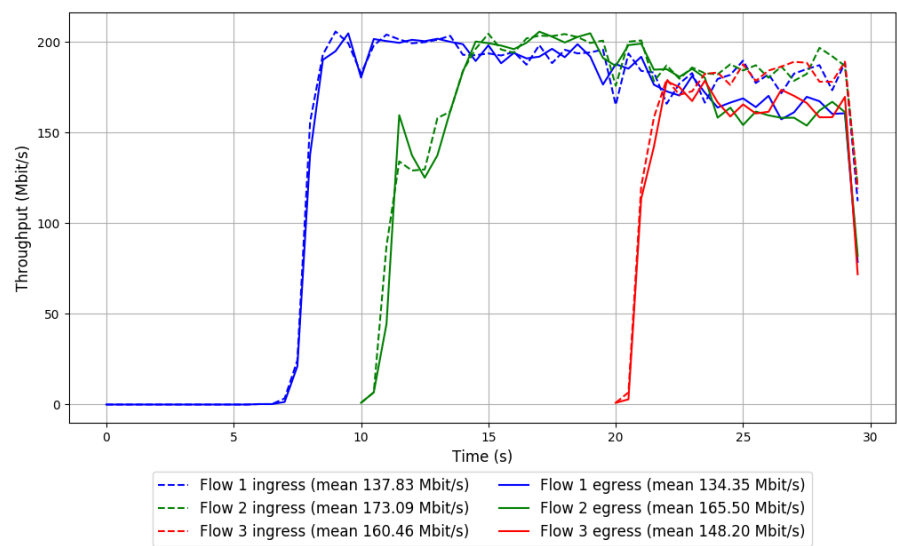


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 07:25:28
End at: 2017-11-16 07:25:58
Local clock offset: -0.481 ms
Remote clock offset: -2.313 ms

# Below is generated by plot.py at 2017-11-16 14:48:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.79 Mbit/s
95th percentile per-packet one-way delay: 82.383 ms
Loss rate: 4.93%
-- Flow 1:
Average throughput: 134.35 Mbit/s
95th percentile per-packet one-way delay: 82.400 ms
Loss rate: 3.07%
-- Flow 2:
Average throughput: 165.50 Mbit/s
95th percentile per-packet one-way delay: 82.480 ms
Loss rate: 5.20%
-- Flow 3:
Average throughput: 148.20 Mbit/s
95th percentile per-packet one-way delay: 81.410 ms
Loss rate: 9.22%
```


Run 1: Report of Indigo — Data Link

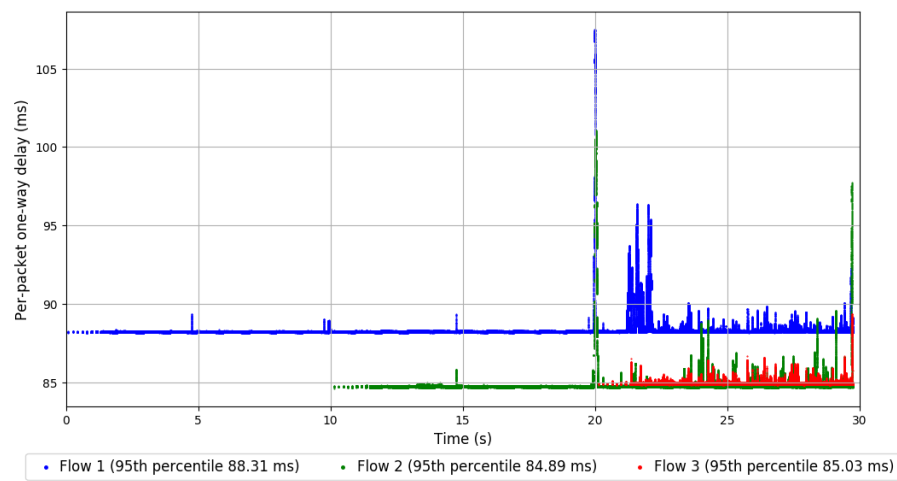
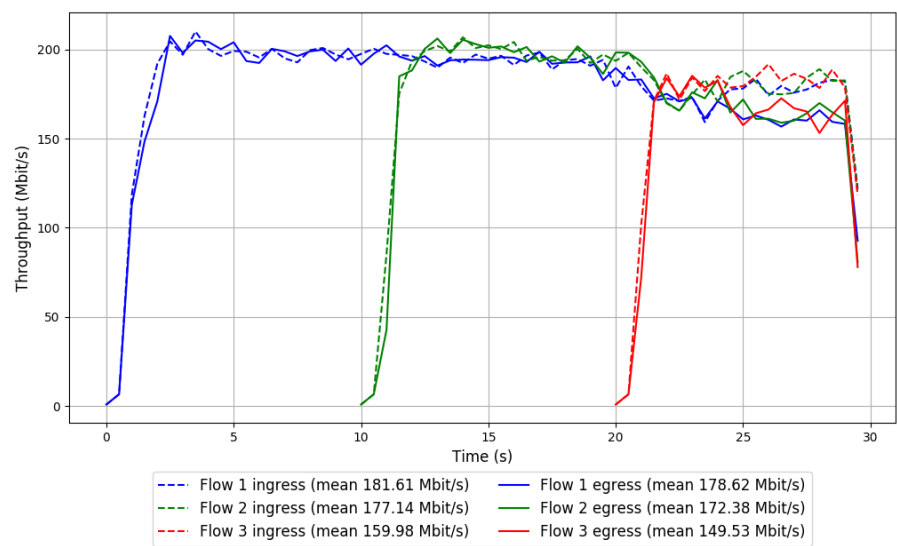


Run 2: Statistics of Indigo

Start at: 2017-11-16 07:45:38
End at: 2017-11-16 07:46:08
Local clock offset: -0.439 ms
Remote clock offset: -5.922 ms

Below is generated by plot.py at 2017-11-16 14:50:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.09 Mbit/s
95th percentile per-packet one-way delay: 88.279 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 178.62 Mbit/s
95th percentile per-packet one-way delay: 88.305 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 172.38 Mbit/s
95th percentile per-packet one-way delay: 84.887 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 149.53 Mbit/s
95th percentile per-packet one-way delay: 85.032 ms
Loss rate: 8.14%

Run 2: Report of Indigo — Data Link

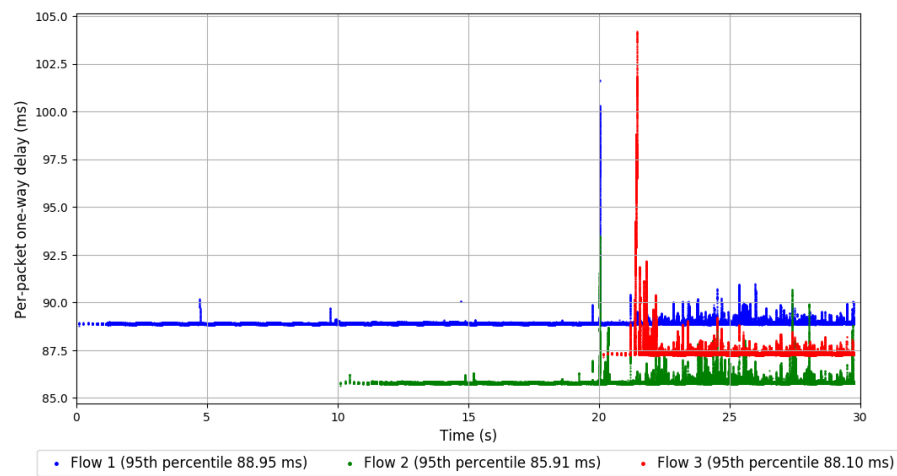
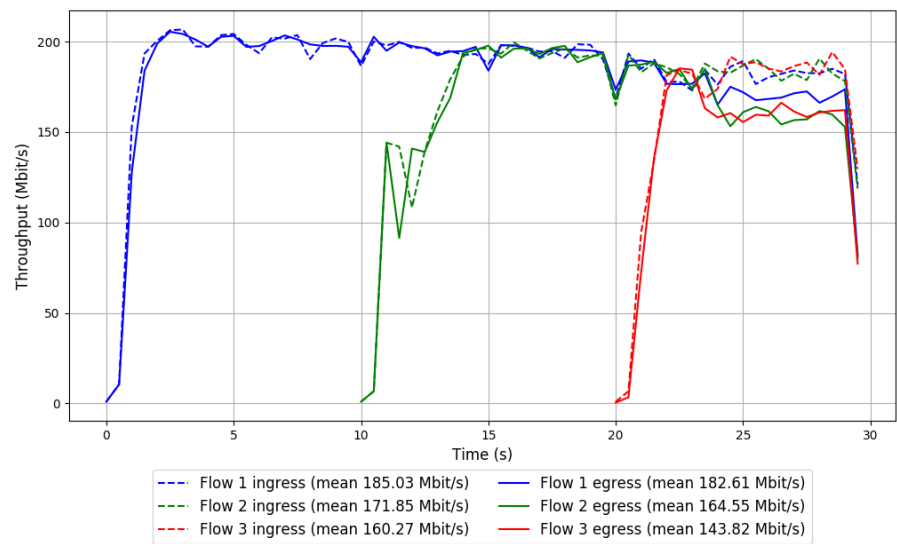


Run 3: Statistics of Indigo

Start at: 2017-11-16 08:05:40
End at: 2017-11-16 08:06:10
Local clock offset: -0.376 ms
Remote clock offset: -5.634 ms

```
# Below is generated by plot.py at 2017-11-16 14:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.02 Mbit/s
95th percentile per-packet one-way delay: 88.936 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 182.61 Mbit/s
95th percentile per-packet one-way delay: 88.946 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 164.55 Mbit/s
95th percentile per-packet one-way delay: 85.909 ms
Loss rate: 5.06%
-- Flow 3:
Average throughput: 143.82 Mbit/s
95th percentile per-packet one-way delay: 88.102 ms
Loss rate: 11.82%
```

Run 3: Report of Indigo — Data Link

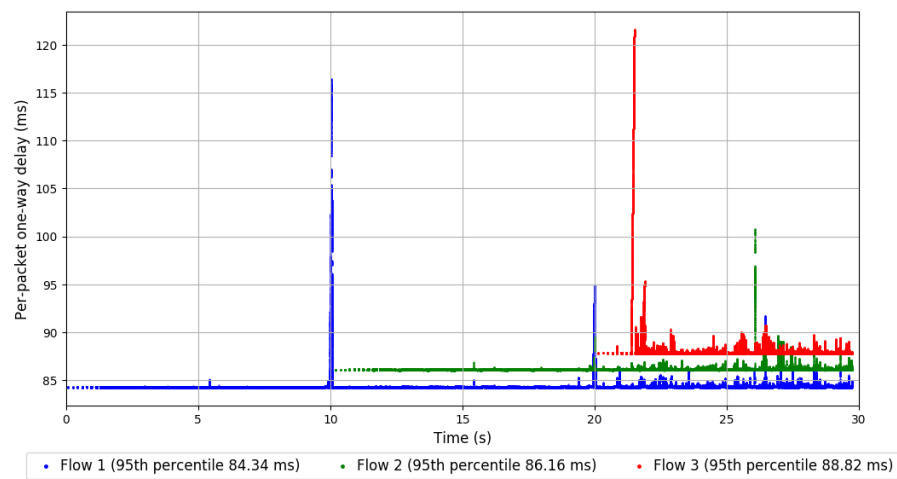
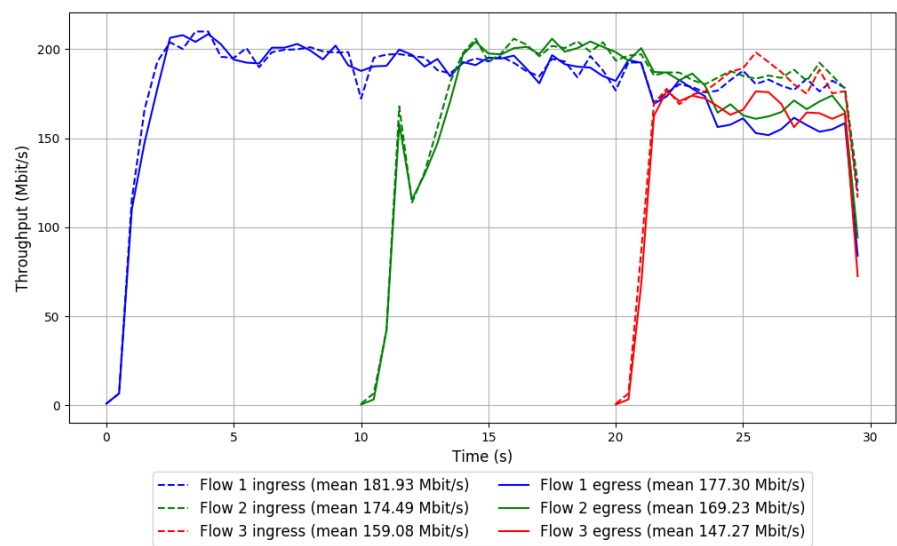


Run 4: Statistics of Indigo

Start at: 2017-11-16 08:25:44
End at: 2017-11-16 08:26:14
Local clock offset: -0.268 ms
Remote clock offset: -3.699 ms

Below is generated by plot.py at 2017-11-16 14:50:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.43 Mbit/s
95th percentile per-packet one-way delay: 87.859 ms
Loss rate: 4.23%
-- Flow 1:
Average throughput: 177.30 Mbit/s
95th percentile per-packet one-way delay: 84.340 ms
Loss rate: 3.09%
-- Flow 2:
Average throughput: 169.23 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 3.85%
-- Flow 3:
Average throughput: 147.27 Mbit/s
95th percentile per-packet one-way delay: 88.816 ms
Loss rate: 9.04%

Run 4: Report of Indigo — Data Link

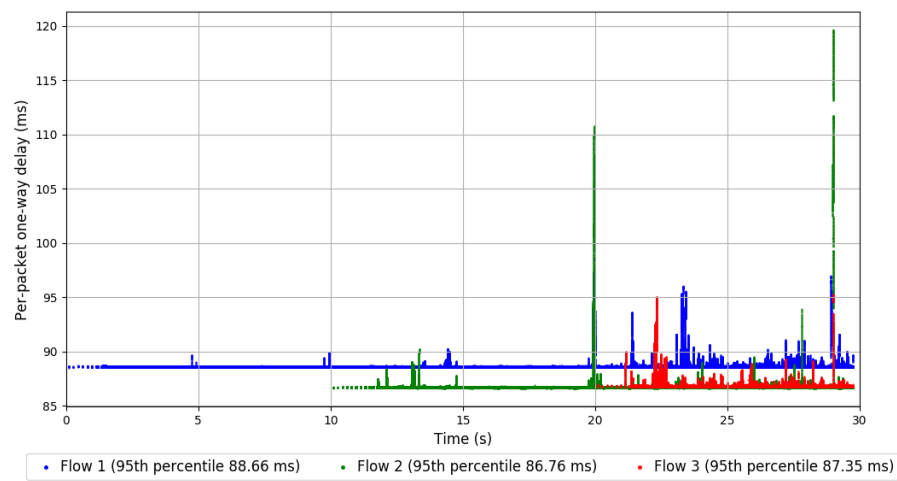
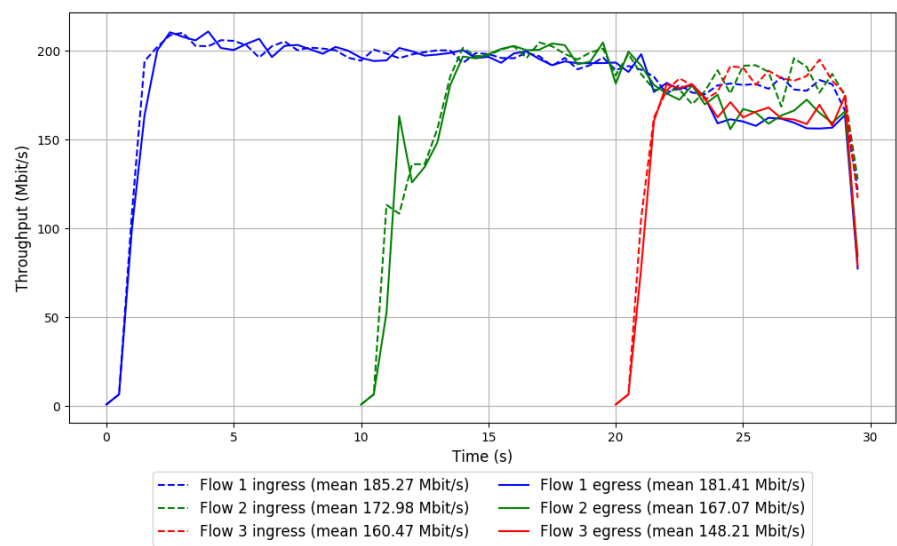


Run 5: Statistics of Indigo

Start at: 2017-11-16 08:45:51
End at: 2017-11-16 08:46:21
Local clock offset: -0.249 ms
Remote clock offset: -4.397 ms

Below is generated by plot.py at 2017-11-16 14:52:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.21 Mbit/s
95th percentile per-packet one-way delay: 88.641 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 181.41 Mbit/s
95th percentile per-packet one-way delay: 88.659 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 167.07 Mbit/s
95th percentile per-packet one-way delay: 86.762 ms
Loss rate: 4.24%
-- Flow 3:
Average throughput: 148.21 Mbit/s
95th percentile per-packet one-way delay: 87.347 ms
Loss rate: 9.24%

Run 5: Report of Indigo — Data Link

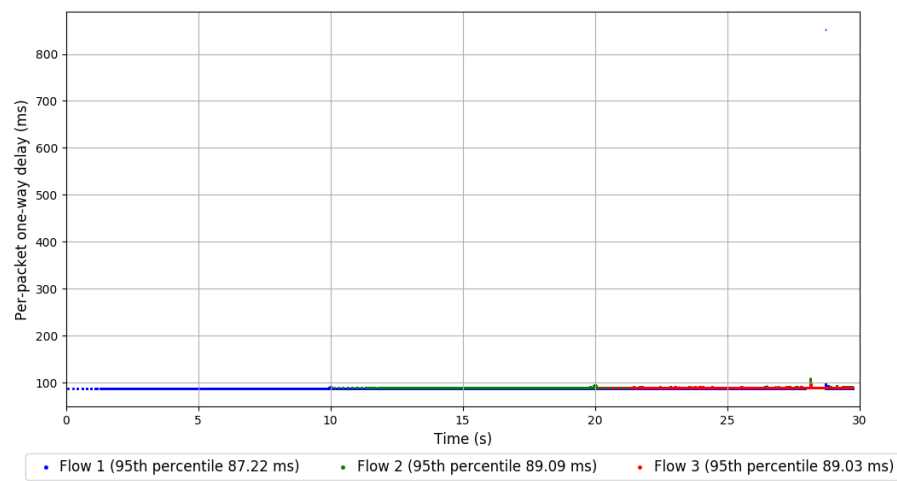
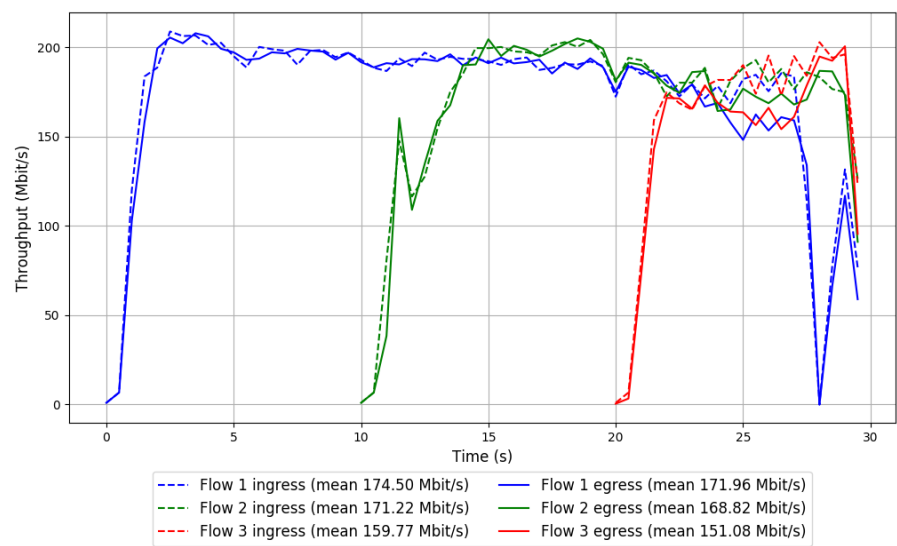


Run 6: Statistics of Indigo

Start at: 2017-11-16 09:05:56
End at: 2017-11-16 09:06:26
Local clock offset: -0.175 ms
Remote clock offset: -4.604 ms

Below is generated by plot.py at 2017-11-16 14:52:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 332.57 Mbit/s
95th percentile per-packet one-way delay: 89.020 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 171.96 Mbit/s
95th percentile per-packet one-way delay: 87.223 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 168.82 Mbit/s
95th percentile per-packet one-way delay: 89.090 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 151.08 Mbit/s
95th percentile per-packet one-way delay: 89.031 ms
Loss rate: 7.08%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 09:25:58

End at: 2017-11-16 09:26:28

Local clock offset: -0.109 ms

Remote clock offset: 1.501 ms

Below is generated by plot.py at 2017-11-16 14:52:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.57 Mbit/s

95th percentile per-packet one-way delay: 83.111 ms

Loss rate: 4.12%

-- Flow 1:

Average throughput: 182.97 Mbit/s

95th percentile per-packet one-way delay: 79.627 ms

Loss rate: 2.50%

-- Flow 2:

Average throughput: 164.83 Mbit/s

95th percentile per-packet one-way delay: 83.190 ms

Loss rate: 3.46%

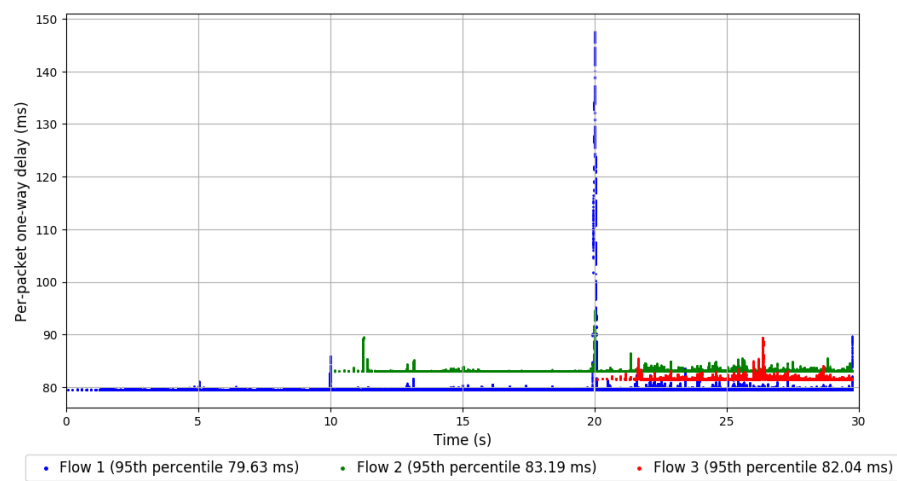
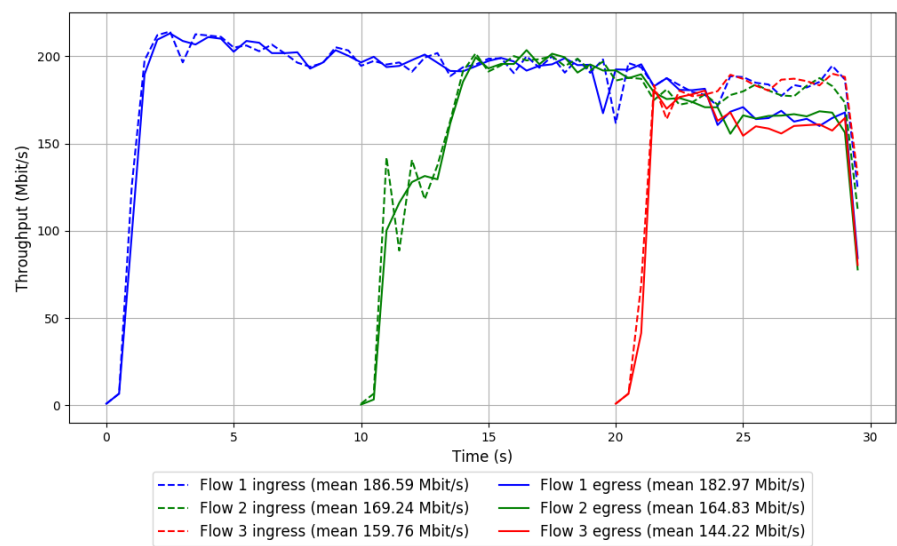
-- Flow 3:

Average throughput: 144.22 Mbit/s

95th percentile per-packet one-way delay: 82.040 ms

Loss rate: 11.30%

Run 7: Report of Indigo — Data Link

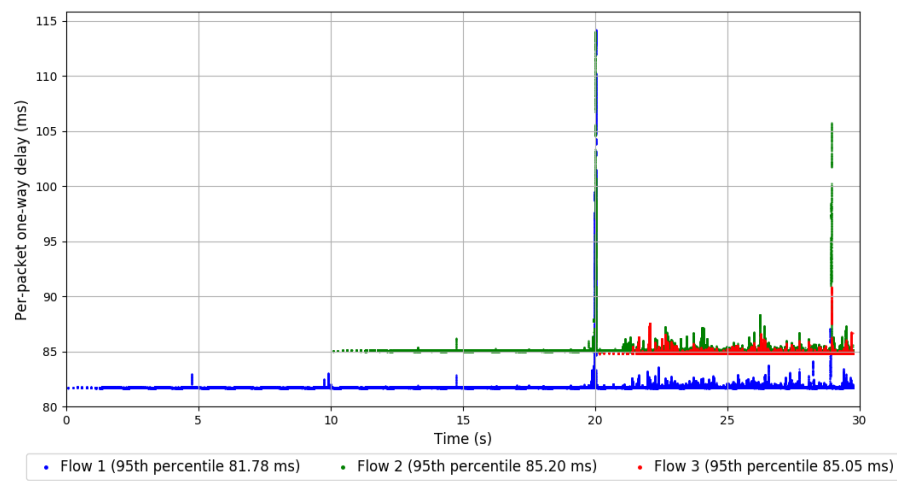
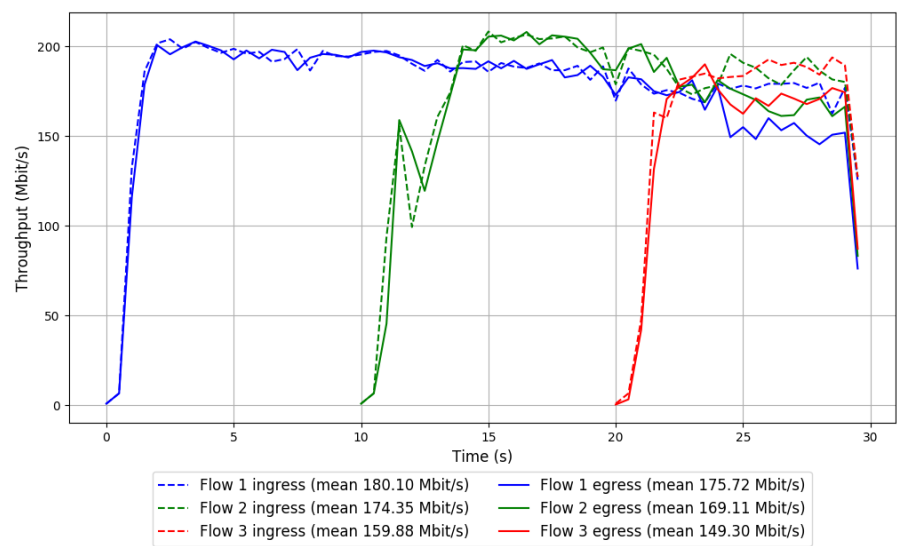


Run 8: Statistics of Indigo

Start at: 2017-11-16 09:46:09
End at: 2017-11-16 09:46:39
Local clock offset: -0.057 ms
Remote clock offset: -0.433 ms

Below is generated by plot.py at 2017-11-16 14:53:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.97 Mbit/s
95th percentile per-packet one-way delay: 85.106 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 175.72 Mbit/s
95th percentile per-packet one-way delay: 81.784 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 169.11 Mbit/s
95th percentile per-packet one-way delay: 85.200 ms
Loss rate: 3.84%
-- Flow 3:
Average throughput: 149.30 Mbit/s
95th percentile per-packet one-way delay: 85.050 ms
Loss rate: 8.23%

Run 8: Report of Indigo — Data Link

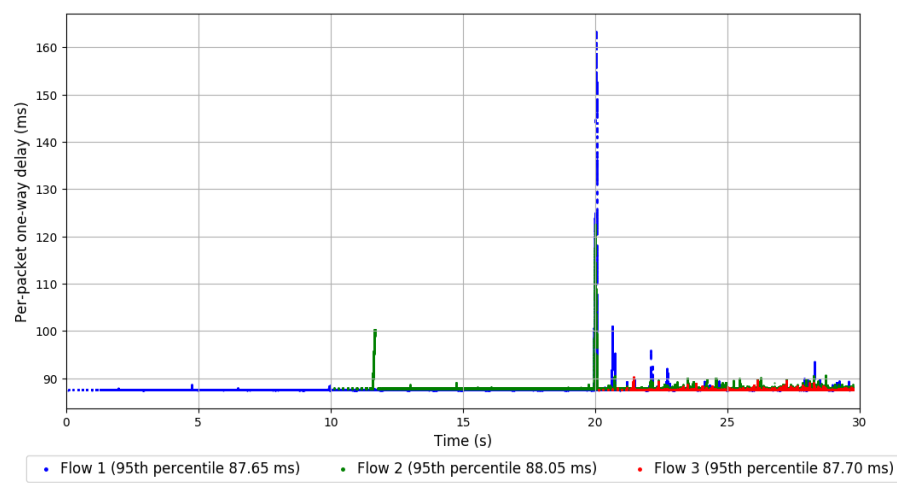
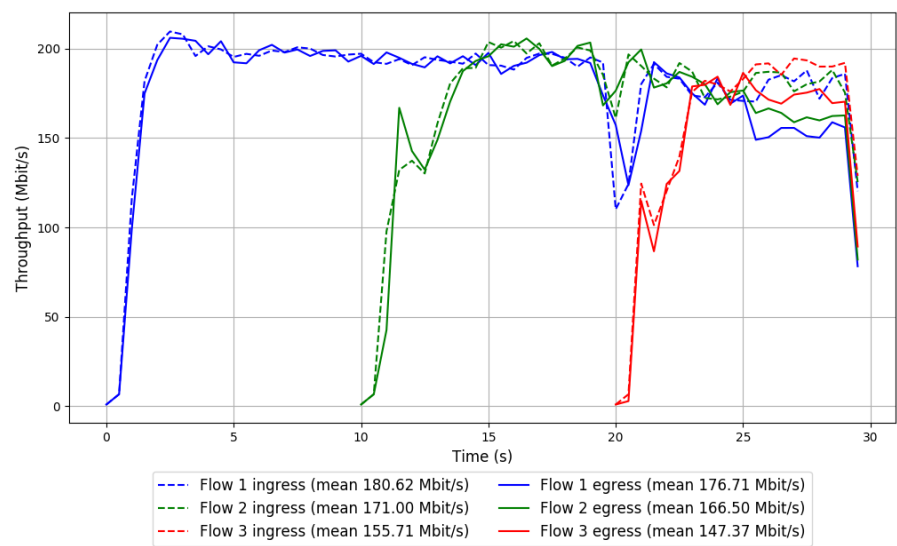


Run 9: Statistics of Indigo

Start at: 2017-11-16 10:06:18
End at: 2017-11-16 10:06:48
Local clock offset: 0.012 ms
Remote clock offset: -4.952 ms

Below is generated by plot.py at 2017-11-16 14:53:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.61 Mbit/s
95th percentile per-packet one-way delay: 87.929 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 176.71 Mbit/s
95th percentile per-packet one-way delay: 87.653 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 166.50 Mbit/s
95th percentile per-packet one-way delay: 88.054 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 147.37 Mbit/s
95th percentile per-packet one-way delay: 87.696 ms
Loss rate: 7.04%

Run 9: Report of Indigo — Data Link

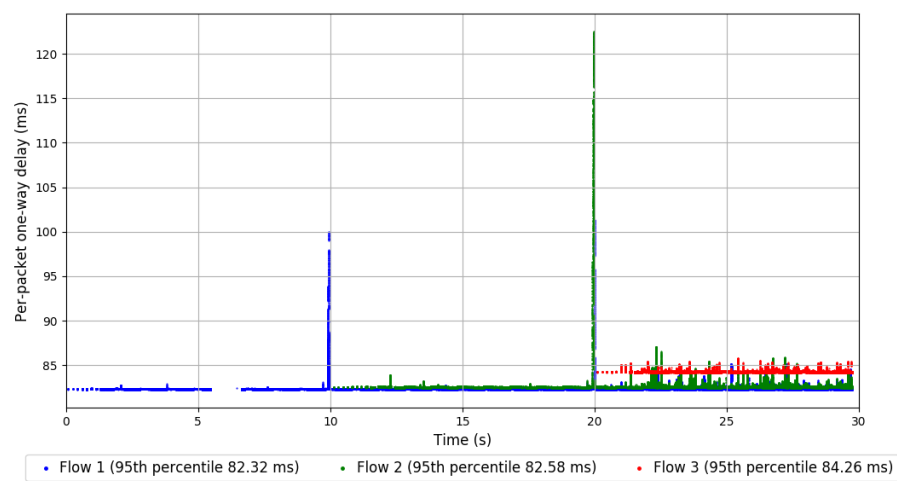
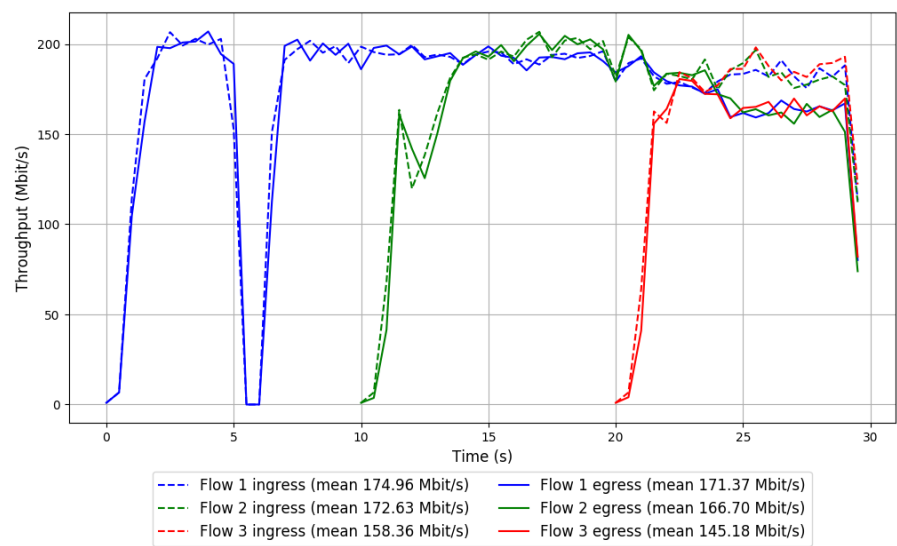


Run 10: Statistics of Indigo

Start at: 2017-11-16 10:26:18
End at: 2017-11-16 10:26:48
Local clock offset: 0.058 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2017-11-16 14:55:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.65 Mbit/s
95th percentile per-packet one-way delay: 84.207 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 171.37 Mbit/s
95th percentile per-packet one-way delay: 82.316 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 166.70 Mbit/s
95th percentile per-packet one-way delay: 82.579 ms
Loss rate: 4.26%
-- Flow 3:
Average throughput: 145.18 Mbit/s
95th percentile per-packet one-way delay: 84.261 ms
Loss rate: 9.92%

Run 10: Report of Indigo — Data Link

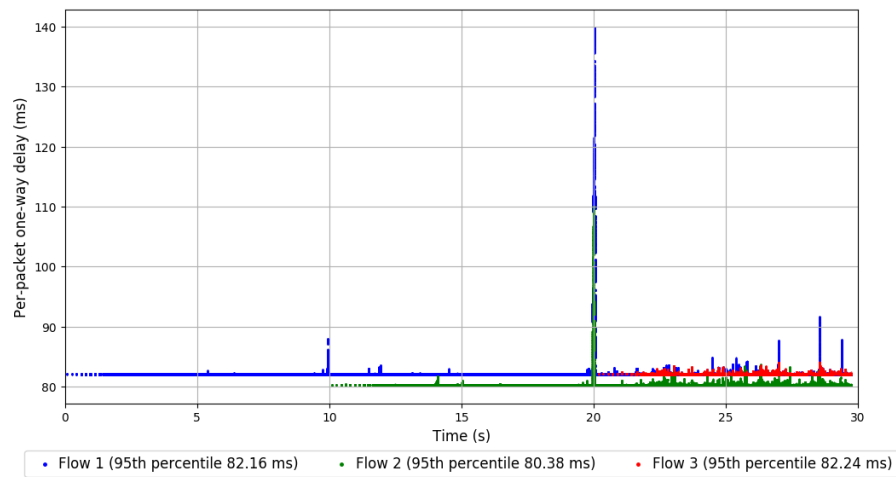
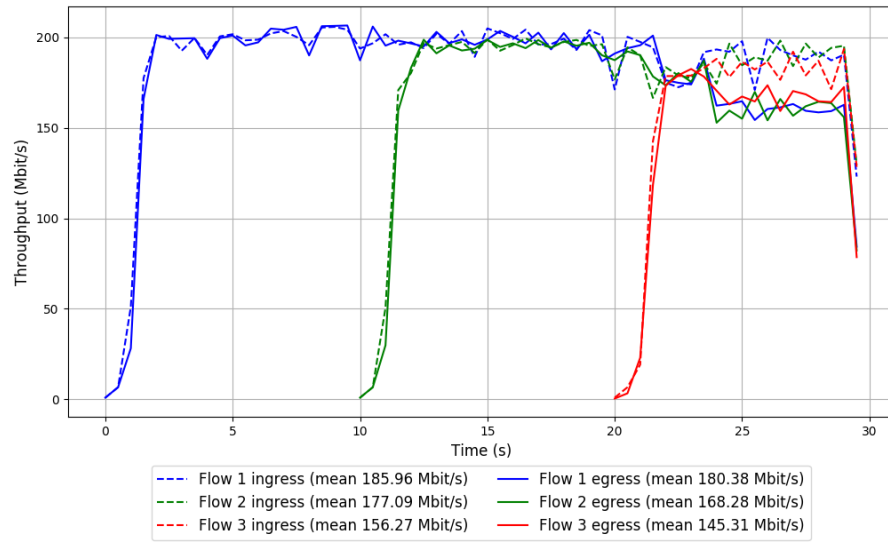


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 07:32:29
End at: 2017-11-16 07:32:59
Local clock offset: -0.472 ms
Remote clock offset: -1.353 ms

# Below is generated by plot.py at 2017-11-16 14:55:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.58 Mbit/s
95th percentile per-packet one-way delay: 82.161 ms
Loss rate: 5.02%
-- Flow 1:
Average throughput: 180.38 Mbit/s
95th percentile per-packet one-way delay: 82.160 ms
Loss rate: 3.55%
-- Flow 2:
Average throughput: 168.28 Mbit/s
95th percentile per-packet one-way delay: 80.375 ms
Loss rate: 5.78%
-- Flow 3:
Average throughput: 145.31 Mbit/s
95th percentile per-packet one-way delay: 82.238 ms
Loss rate: 8.64%
```

Run 1: Report of Indigo-calib — Data Link

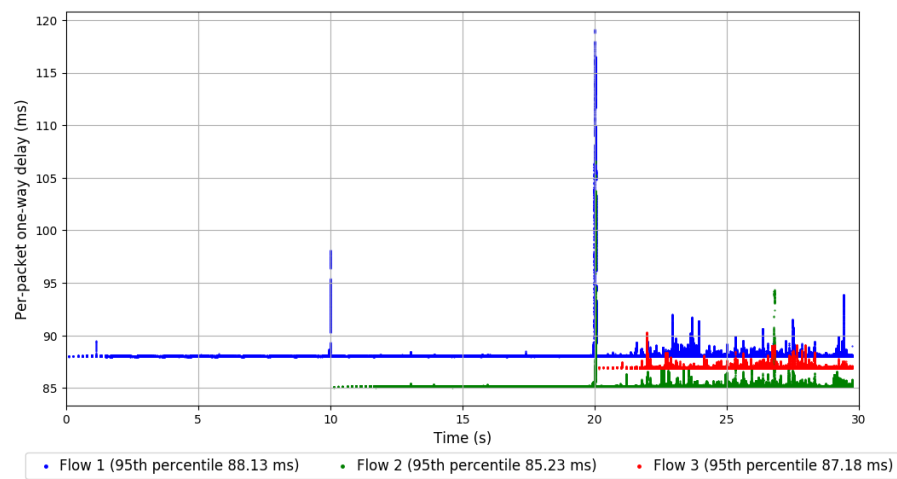
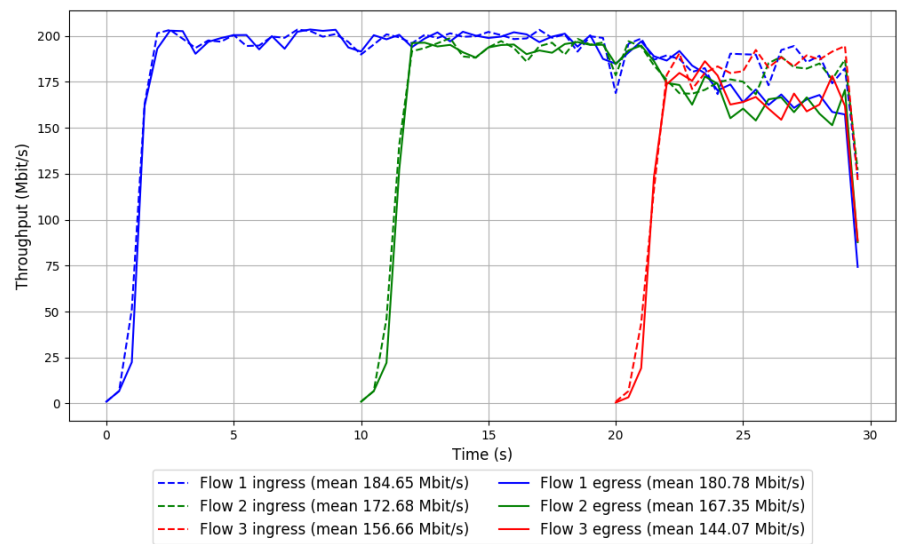


Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 07:52:41
End at: 2017-11-16 07:53:11
Local clock offset: -0.405 ms
Remote clock offset: -5.575 ms

Below is generated by plot.py at 2017-11-16 14:55:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 338.12 Mbit/s
95th percentile per-packet one-way delay: 88.105 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 180.78 Mbit/s
95th percentile per-packet one-way delay: 88.130 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 167.35 Mbit/s
95th percentile per-packet one-way delay: 85.229 ms
Loss rate: 3.91%
-- Flow 3:
Average throughput: 144.07 Mbit/s
95th percentile per-packet one-way delay: 87.178 ms
Loss rate: 9.65%

Run 2: Report of Indigo-calib — Data Link

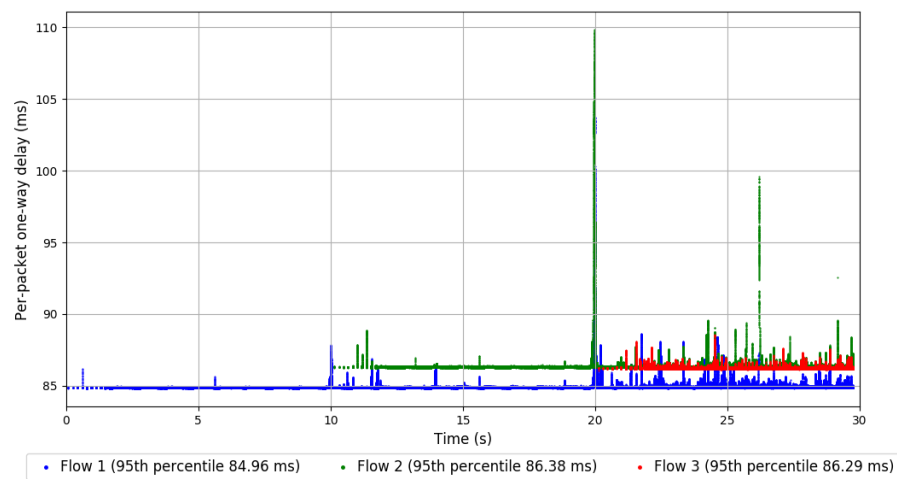
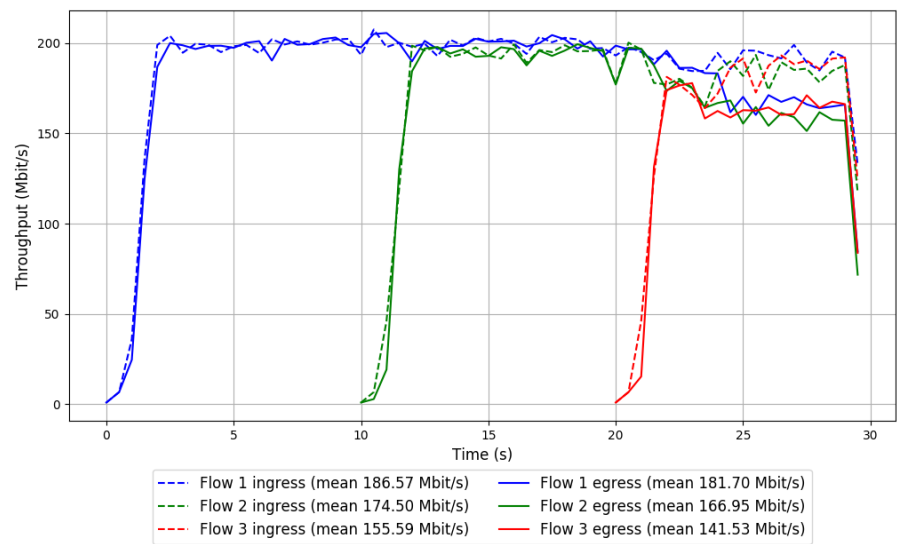


Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 08:12:45
End at: 2017-11-16 08:13:15
Local clock offset: -0.319 ms
Remote clock offset: -4.442 ms

Below is generated by plot.py at 2017-11-16 14:57:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.92 Mbit/s
95th percentile per-packet one-way delay: 86.340 ms
Loss rate: 4.88%
-- Flow 1:
Average throughput: 181.70 Mbit/s
95th percentile per-packet one-way delay: 84.960 ms
Loss rate: 3.16%
-- Flow 2:
Average throughput: 166.95 Mbit/s
95th percentile per-packet one-way delay: 86.381 ms
Loss rate: 5.14%
-- Flow 3:
Average throughput: 141.53 Mbit/s
95th percentile per-packet one-way delay: 86.289 ms
Loss rate: 10.60%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 08:32:51

End at: 2017-11-16 08:33:21

Local clock offset: -0.329 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2017-11-16 14:57:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.60 Mbit/s

95th percentile per-packet one-way delay: 82.306 ms

Loss rate: 5.05%

-- Flow 1:

Average throughput: 178.60 Mbit/s

95th percentile per-packet one-way delay: 82.107 ms

Loss rate: 3.64%

-- Flow 2:

Average throughput: 165.74 Mbit/s

95th percentile per-packet one-way delay: 82.334 ms

Loss rate: 5.94%

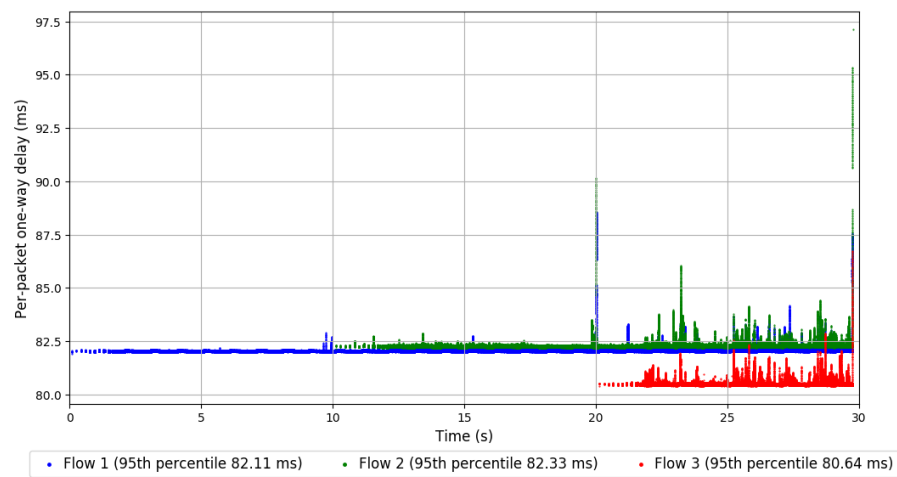
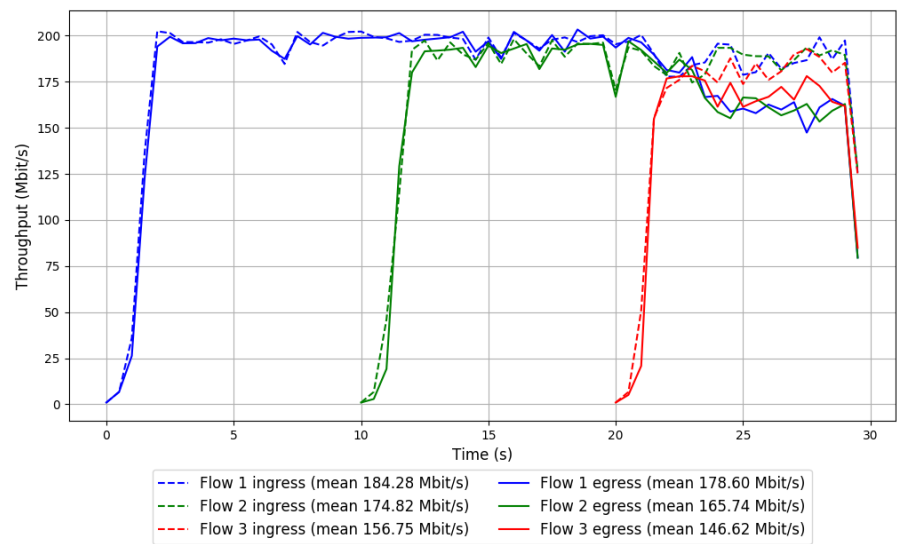
-- Flow 3:

Average throughput: 146.62 Mbit/s

95th percentile per-packet one-way delay: 80.644 ms

Loss rate: 8.06%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 08:52:53

End at: 2017-11-16 08:53:23

Local clock offset: -0.195 ms

Remote clock offset: 1.24 ms

Below is generated by plot.py at 2017-11-16 14:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.48 Mbit/s

95th percentile per-packet one-way delay: 81.386 ms

Loss rate: 4.63%

-- Flow 1:

Average throughput: 180.30 Mbit/s

95th percentile per-packet one-way delay: 81.249 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 168.87 Mbit/s

95th percentile per-packet one-way delay: 80.907 ms

Loss rate: 4.49%

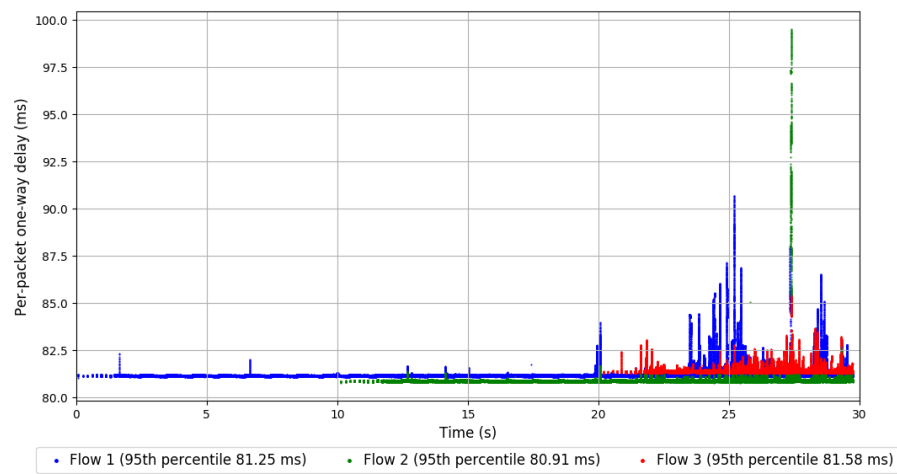
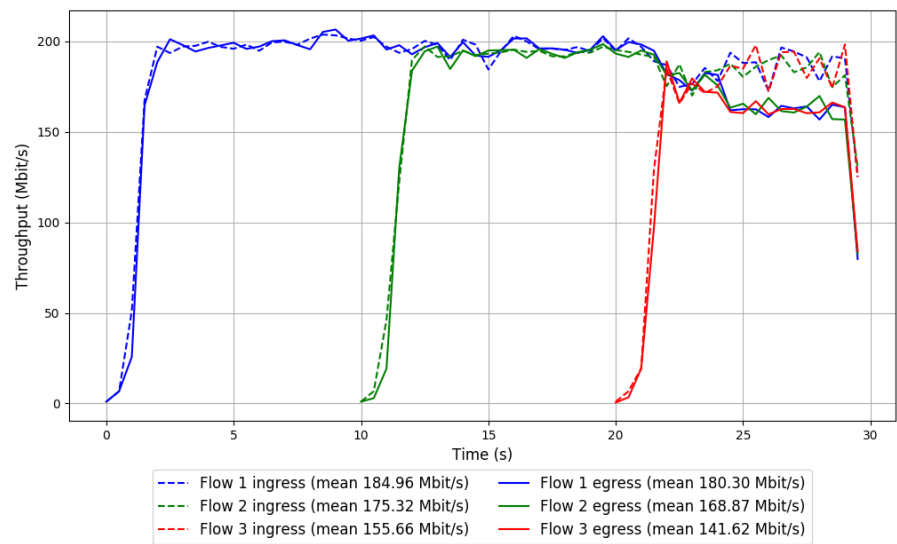
-- Flow 3:

Average throughput: 141.62 Mbit/s

95th percentile per-packet one-way delay: 81.578 ms

Loss rate: 10.61%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 09:13:01

End at: 2017-11-16 09:13:31

Local clock offset: -0.134 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2017-11-16 14:57:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.12 Mbit/s

95th percentile per-packet one-way delay: 82.482 ms

Loss rate: 4.39%

-- Flow 1:

Average throughput: 182.20 Mbit/s

95th percentile per-packet one-way delay: 80.496 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 166.79 Mbit/s

95th percentile per-packet one-way delay: 82.217 ms

Loss rate: 5.16%

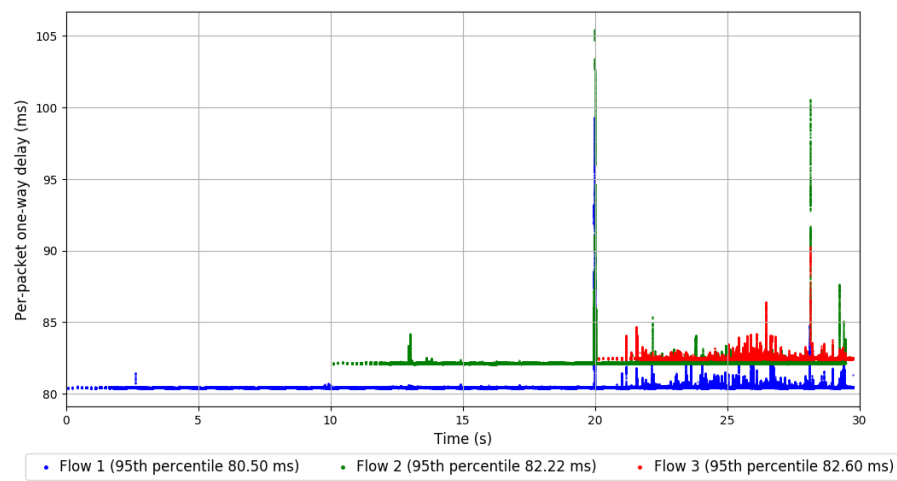
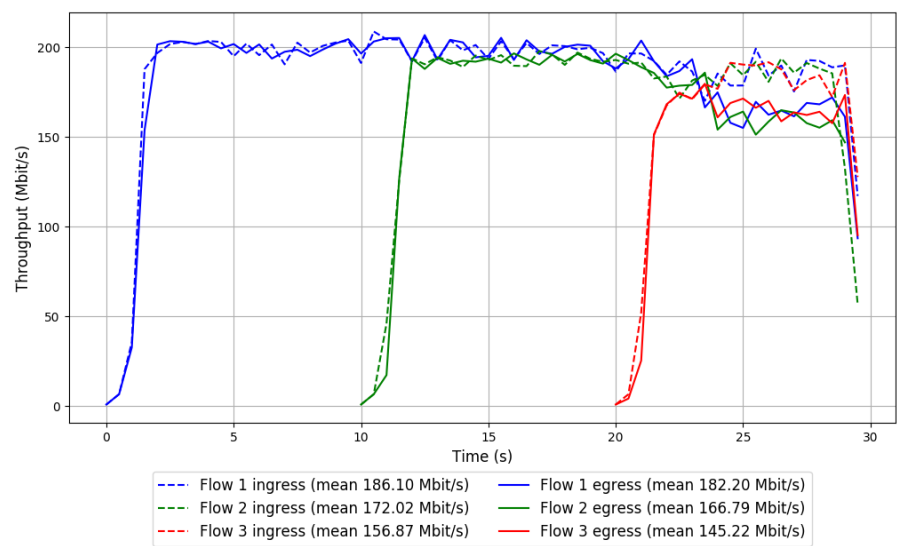
-- Flow 3:

Average throughput: 145.22 Mbit/s

95th percentile per-packet one-way delay: 82.601 ms

Loss rate: 9.02%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 09:33:04

End at: 2017-11-16 09:33:34

Local clock offset: -0.079 ms

Remote clock offset: 0.607 ms

Below is generated by plot.py at 2017-11-16 14:58:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.48 Mbit/s

95th percentile per-packet one-way delay: 82.657 ms

Loss rate: 4.88%

-- Flow 1:

Average throughput: 179.26 Mbit/s

95th percentile per-packet one-way delay: 82.657 ms

Loss rate: 2.85%

-- Flow 2:

Average throughput: 167.69 Mbit/s

95th percentile per-packet one-way delay: 82.672 ms

Loss rate: 4.36%

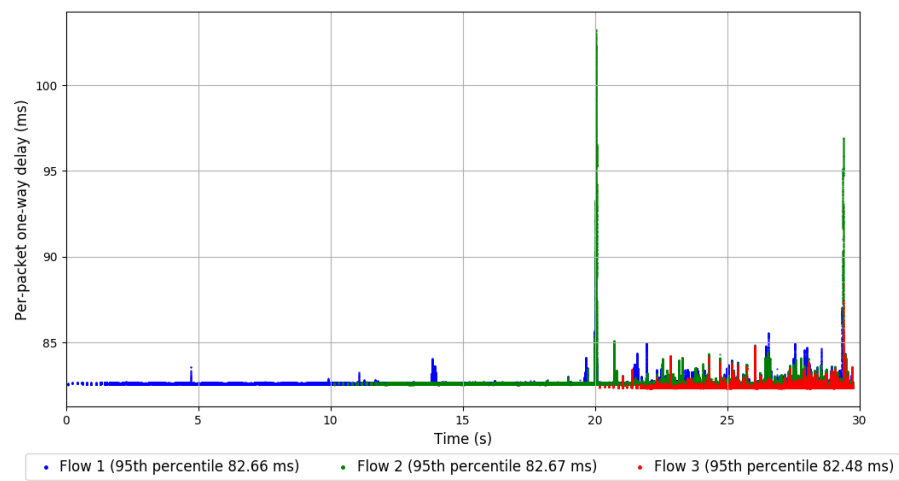
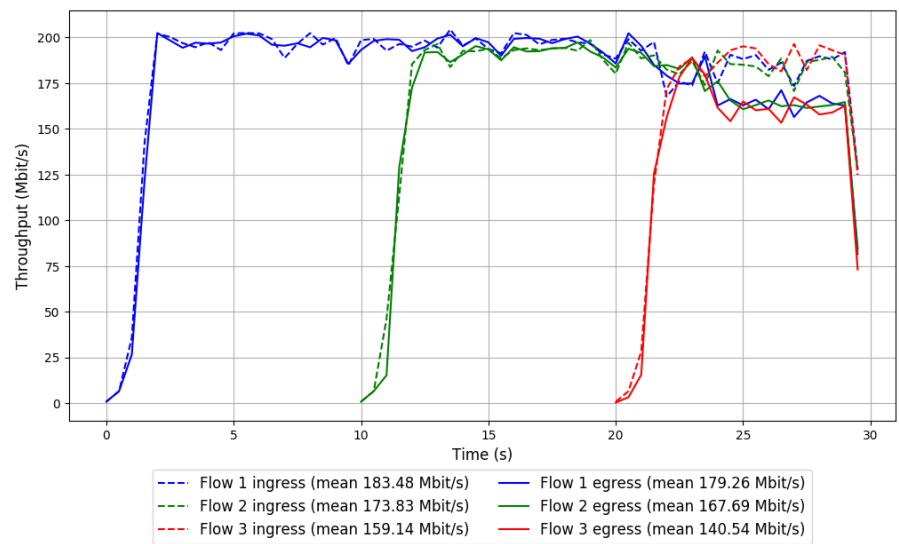
-- Flow 3:

Average throughput: 140.54 Mbit/s

95th percentile per-packet one-way delay: 82.485 ms

Loss rate: 13.23%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 09:53:13

End at: 2017-11-16 09:53:43

Local clock offset: -0.038 ms

Remote clock offset: 1.31 ms

Below is generated by plot.py at 2017-11-16 14:58:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.51 Mbit/s

95th percentile per-packet one-way delay: 83.332 ms

Loss rate: 4.03%

-- Flow 1:

Average throughput: 181.18 Mbit/s

95th percentile per-packet one-way delay: 83.340 ms

Loss rate: 2.48%

-- Flow 2:

Average throughput: 165.35 Mbit/s

95th percentile per-packet one-way delay: 83.333 ms

Loss rate: 4.05%

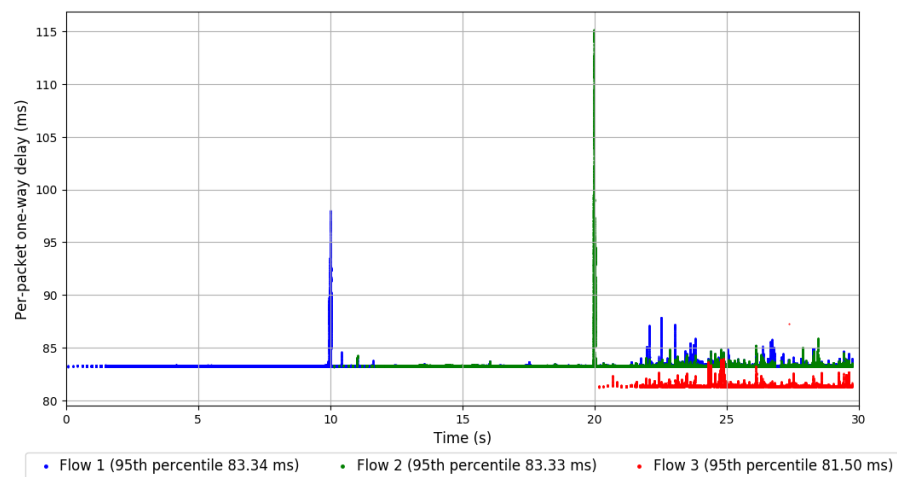
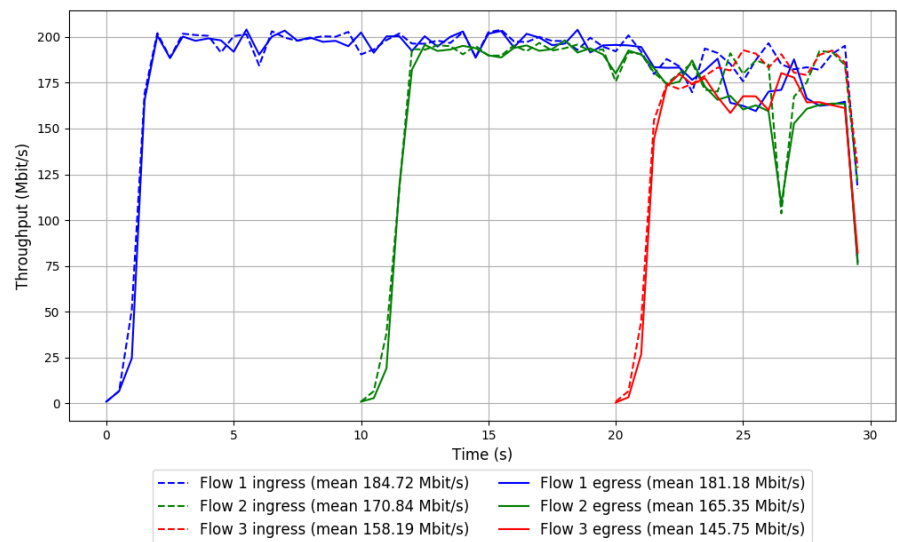
-- Flow 3:

Average throughput: 145.75 Mbit/s

95th percentile per-packet one-way delay: 81.505 ms

Loss rate: 9.47%

Run 8: Report of Indigo-calib — Data Link

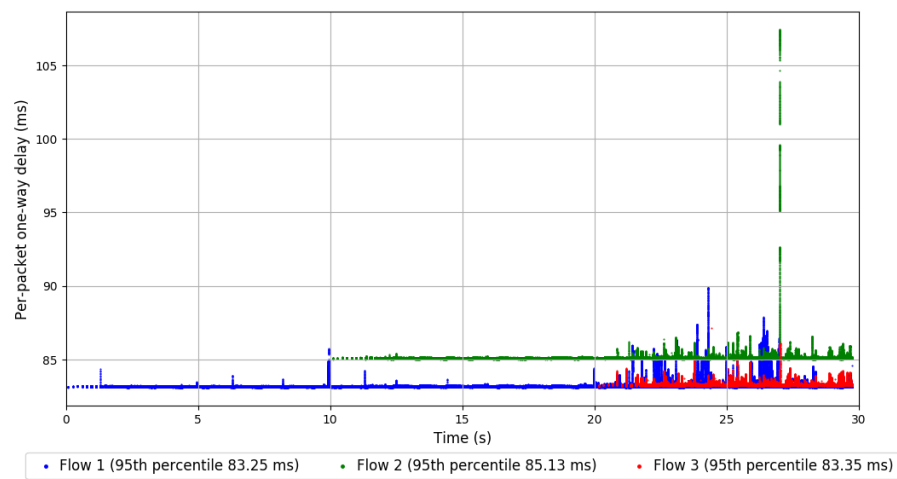
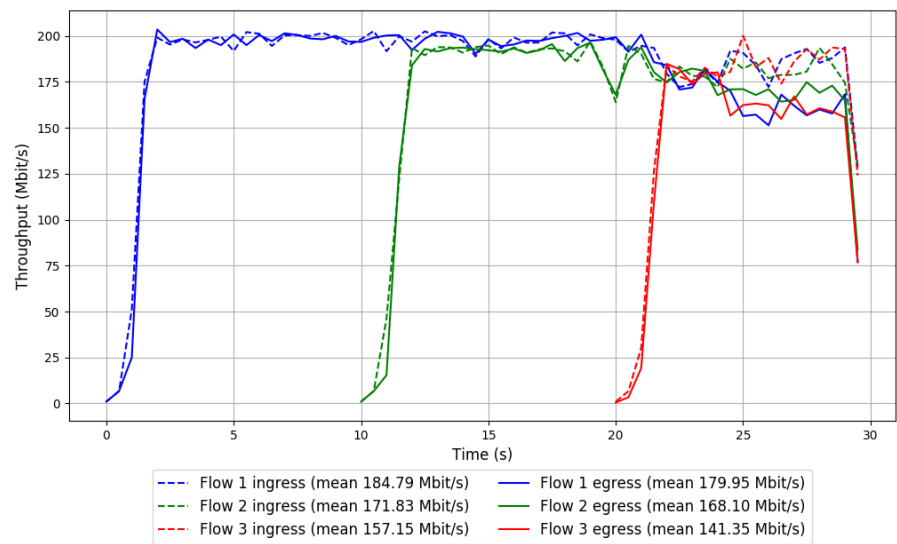


Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 10:13:21
End at: 2017-11-16 10:13:51
Local clock offset: -0.011 ms
Remote clock offset: -0.769 ms

Below is generated by plot.py at 2017-11-16 14:58:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.88 Mbit/s
95th percentile per-packet one-way delay: 85.112 ms
Loss rate: 4.37%
-- Flow 1:
Average throughput: 179.95 Mbit/s
95th percentile per-packet one-way delay: 83.247 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 168.10 Mbit/s
95th percentile per-packet one-way delay: 85.131 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 141.35 Mbit/s
95th percentile per-packet one-way delay: 83.351 ms
Loss rate: 11.62%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 10:33:23

End at: 2017-11-16 10:33:53

Local clock offset: -0.018 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2017-11-16 14:58:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.02 Mbit/s

95th percentile per-packet one-way delay: 81.733 ms

Loss rate: 4.76%

-- Flow 1:

Average throughput: 181.93 Mbit/s

95th percentile per-packet one-way delay: 80.247 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 166.43 Mbit/s

95th percentile per-packet one-way delay: 81.701 ms

Loss rate: 5.70%

-- Flow 3:

Average throughput: 142.12 Mbit/s

95th percentile per-packet one-way delay: 81.961 ms

Loss rate: 9.96%

Run 10: Report of Indigo-calib — Data Link

