

Pantheon Report

Generated at 2017-09-18 12:02:38 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 10 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).

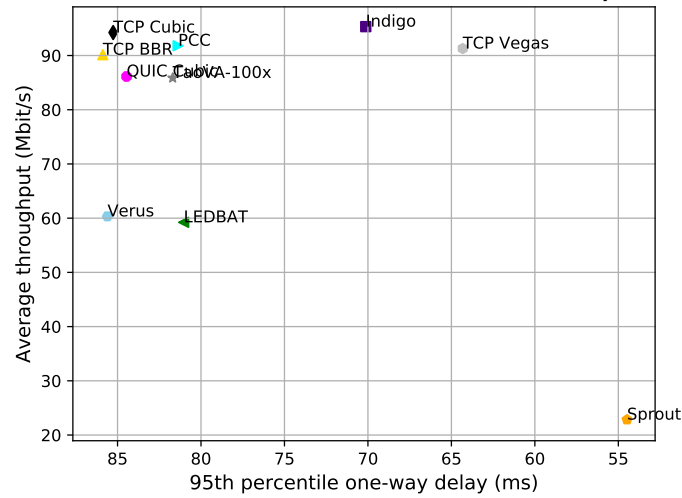
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

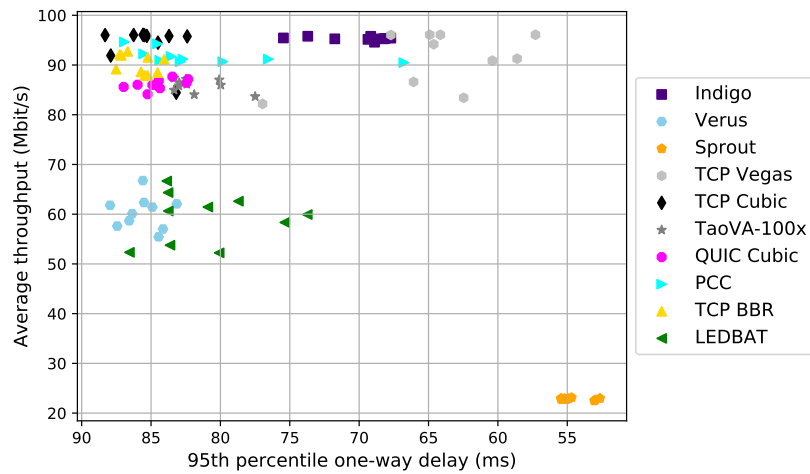
Git summary:

```
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico 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	72.47	17.98	20.23	85.83	85.87	85.35	25.76	30.27	34.20
TCP Cubic	10	62.08	35.29	26.20	85.45	84.02	83.18	0.58	0.67	0.65
Indigo	10	63.30	33.90	29.07	66.68	73.11	78.89	0.81	1.36	4.02
LEDBAT	10	36.83	26.86	13.68	80.86	81.39	76.60	0.06	0.10	0.25
PCC	10	83.40	9.01	7.33	81.20	82.82	80.89	5.97	5.19	3.72
QUIC Cubic	9	62.24	25.42	21.30	84.28	84.49	84.46	1.33	1.12	1.14
Sprout	10	11.57	11.45	11.09	54.37	54.51	54.50	0.05	0.01	0.04
TaoVA-100x	10	53.01	40.13	27.38	79.04	83.24	84.49	11.96	21.69	20.44
TCP Vegas	10	69.10	19.39	27.97	62.36	65.32	63.03	0.39	0.10	0.08
Verus	10	39.56	23.02	18.08	85.25	85.60	86.40	34.10	34.75	39.74

Run 1: Statistics of TCP BBR

Start at: 2017-09-18 09:17:41

End at: 2017-09-18 09:18:11

Local clock offset: 0.792 ms

Remote clock offset: 1.721 ms

Below is generated by plot.py at 2017-09-18 11:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 86.684 ms

Loss rate: 26.33%

-- Flow 1:

Average throughput: 48.02 Mbit/s

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

Loss rate: 26.95%

-- Flow 2:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 86.356 ms

Loss rate: 27.13%

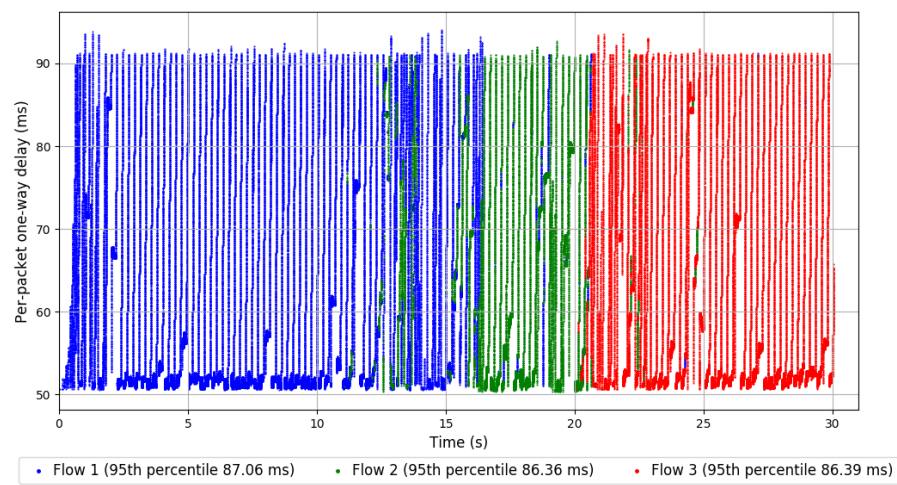
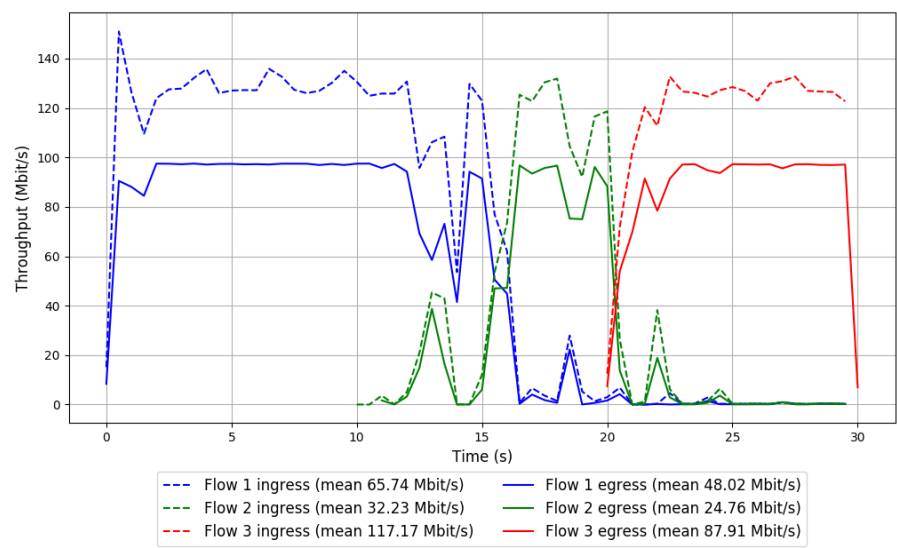
-- Flow 3:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 86.389 ms

Loss rate: 24.86%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-18 09:31:40

End at: 2017-09-18 09:32:10

Local clock offset: 0.809 ms

Remote clock offset: 2.081 ms

Below is generated by plot.py at 2017-09-18 11:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 87.142 ms

Loss rate: 25.47%

-- Flow 1:

Average throughput: 88.98 Mbit/s

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

Loss rate: 24.97%

-- Flow 2:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 84.532 ms

Loss rate: 38.78%

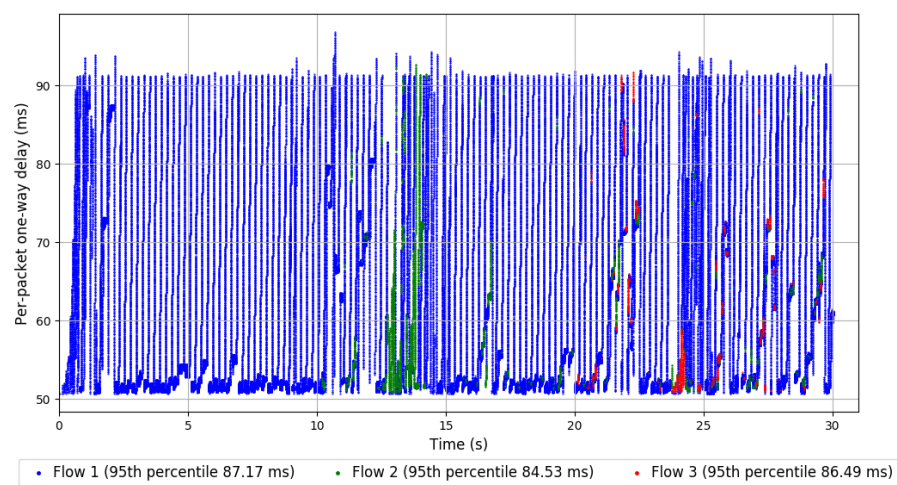
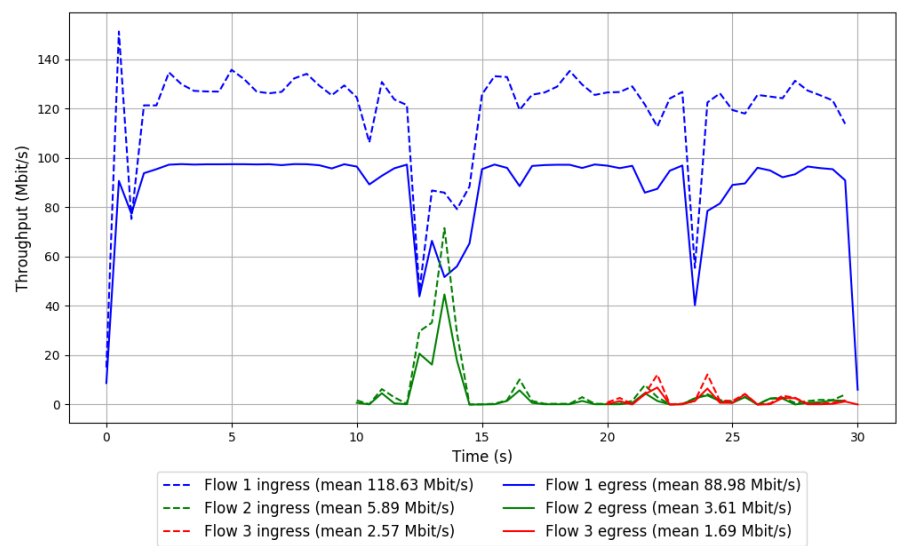
-- Flow 3:

Average throughput: 1.69 Mbit/s

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

Loss rate: 34.33%

Run 2: Report of TCP BBR — Data Link

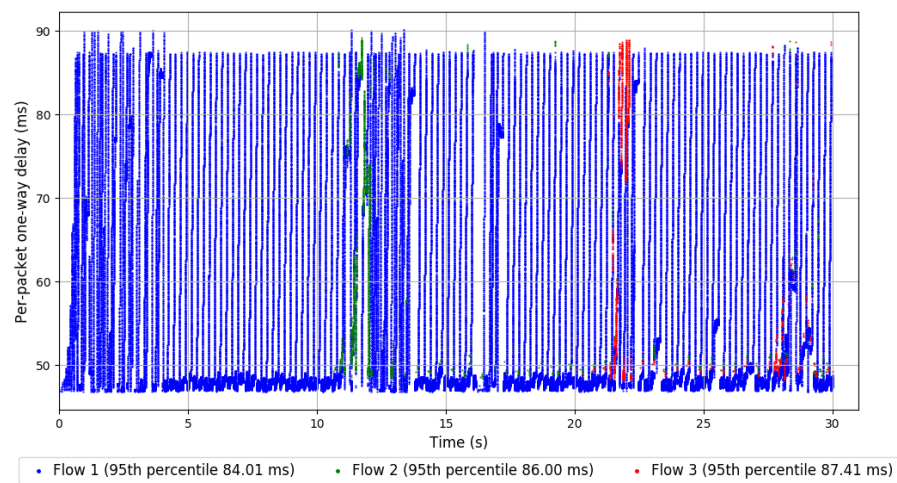
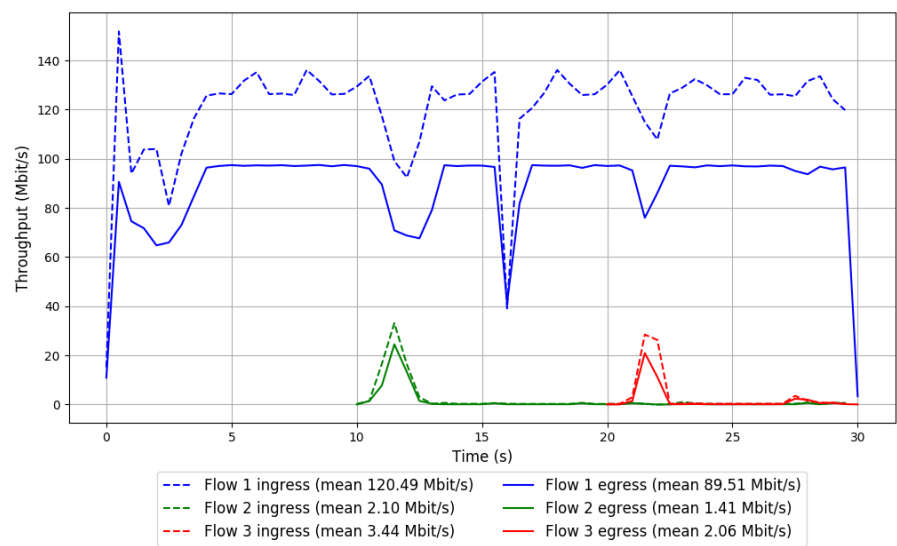


Run 3: Statistics of TCP BBR

Start at: 2017-09-18 09:45:39
End at: 2017-09-18 09:46:09
Local clock offset: 0.638 ms
Remote clock offset: -0.613 ms

Below is generated by plot.py at 2017-09-18 11:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 84.051 ms
Loss rate: 25.93%
-- Flow 1:
Average throughput: 89.51 Mbit/s
95th percentile per-packet one-way delay: 84.010 ms
Loss rate: 25.71%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 86.004 ms
Loss rate: 33.29%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 87.405 ms
Loss rate: 40.26%

Run 3: Report of TCP BBR — Data Link

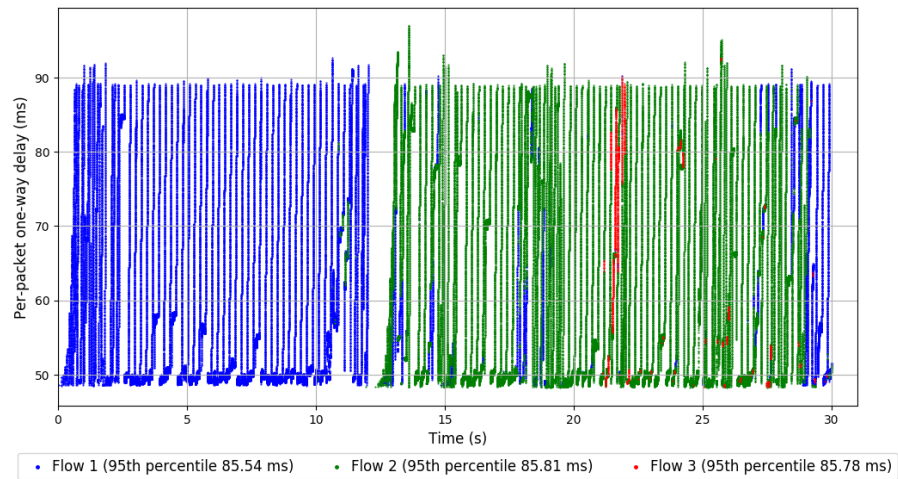
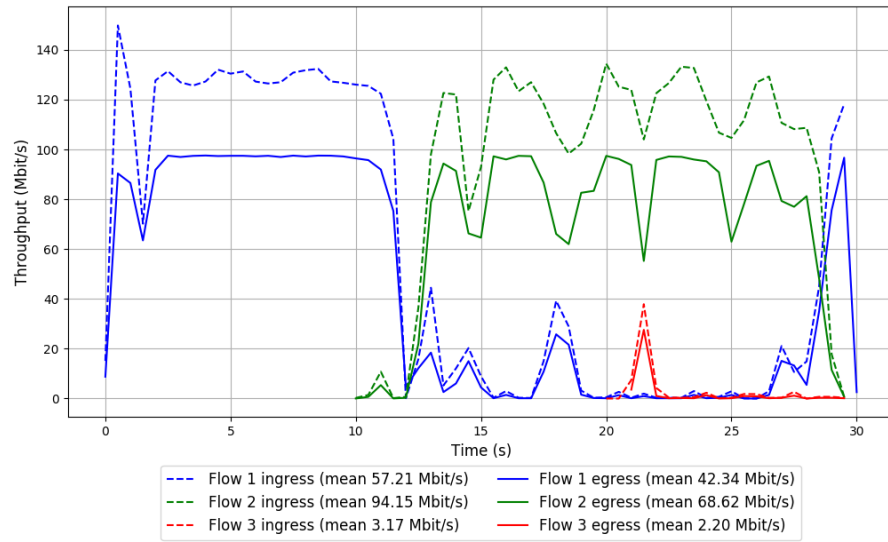


Run 4: Statistics of TCP BBR

Start at: 2017-09-18 09:59:36
End at: 2017-09-18 10:00:06
Local clock offset: 0.531 ms
Remote clock offset: -0.651 ms

Below is generated by plot.py at 2017-09-18 11:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 85.722 ms
Loss rate: 26.67%
-- Flow 1:
Average throughput: 42.34 Mbit/s
95th percentile per-packet one-way delay: 85.540 ms
Loss rate: 25.99%
-- Flow 2:
Average throughput: 68.62 Mbit/s
95th percentile per-packet one-way delay: 85.812 ms
Loss rate: 27.10%
-- Flow 3:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 85.776 ms
Loss rate: 38.34%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-18 10:13:29

End at: 2017-09-18 10:13:59

Local clock offset: 0.467 ms

Remote clock offset: 1.167 ms

Below is generated by plot.py at 2017-09-18 11:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.16 Mbit/s

95th percentile per-packet one-way delay: 87.519 ms

Loss rate: 25.68%

-- Flow 1:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 87.525 ms

Loss rate: 25.46%

-- Flow 2:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 86.003 ms

Loss rate: 26.71%

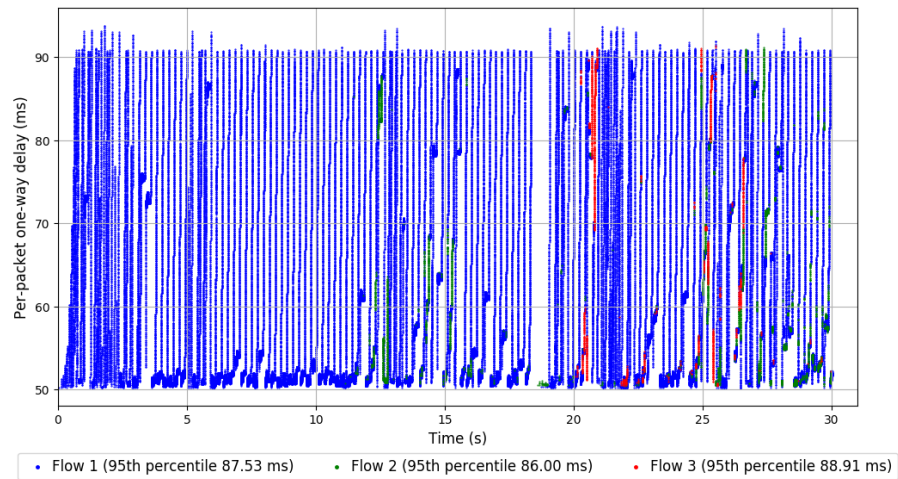
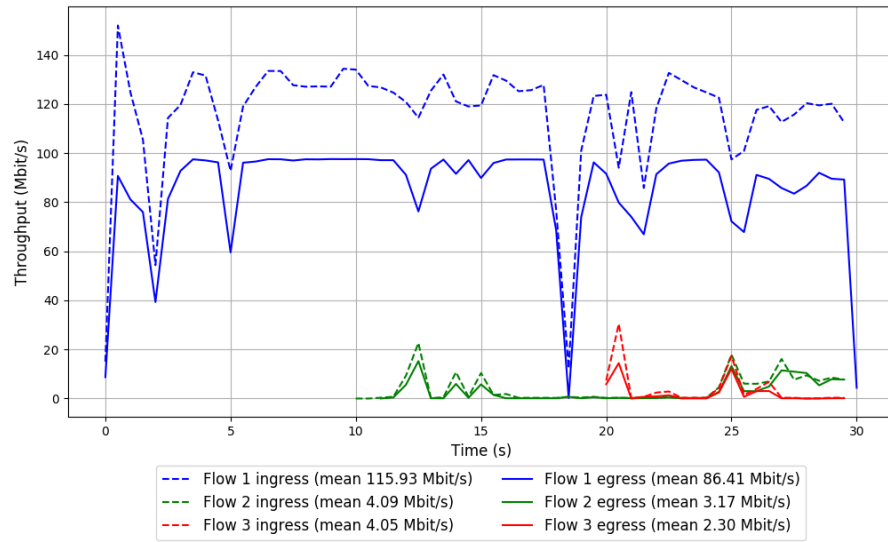
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 88.914 ms

Loss rate: 43.31%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-18 10:27:20

End at: 2017-09-18 10:27:50

Local clock offset: 0.509 ms

Remote clock offset: 1.24 ms

Below is generated by plot.py at 2017-09-18 11:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 85.251 ms

Loss rate: 26.85%

-- Flow 1:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 85.239 ms

Loss rate: 26.63%

-- Flow 2:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 85.826 ms

Loss rate: 30.03%

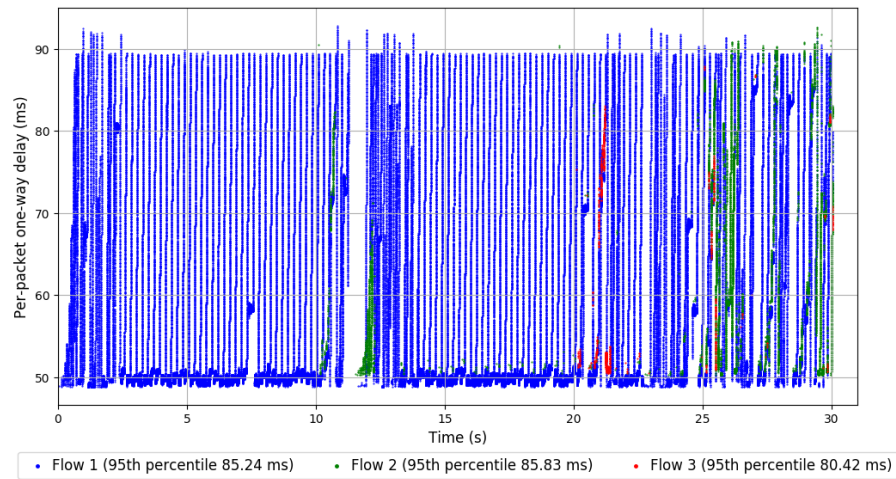
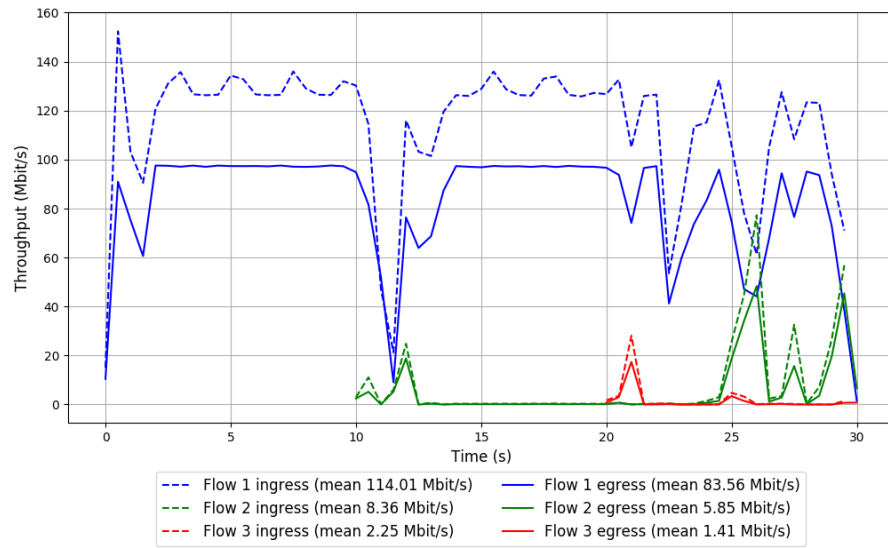
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 80.424 ms

Loss rate: 37.15%

Run 6: Report of TCP BBR — Data Link

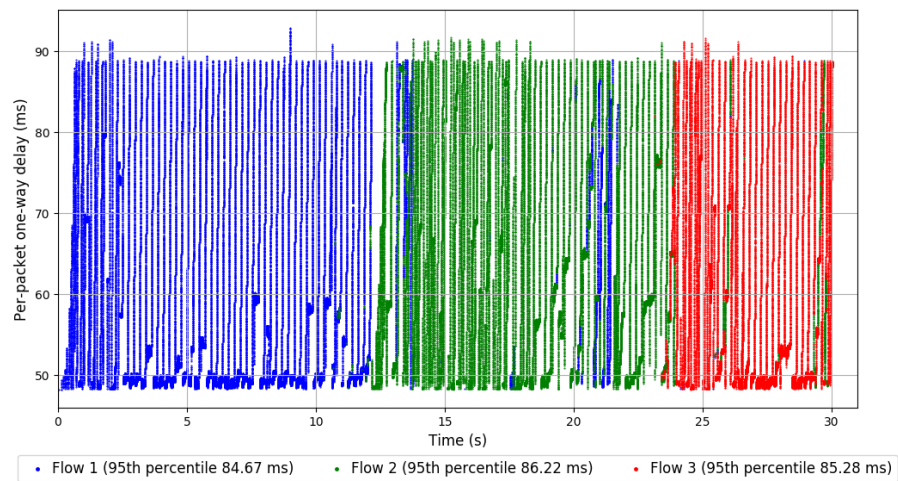
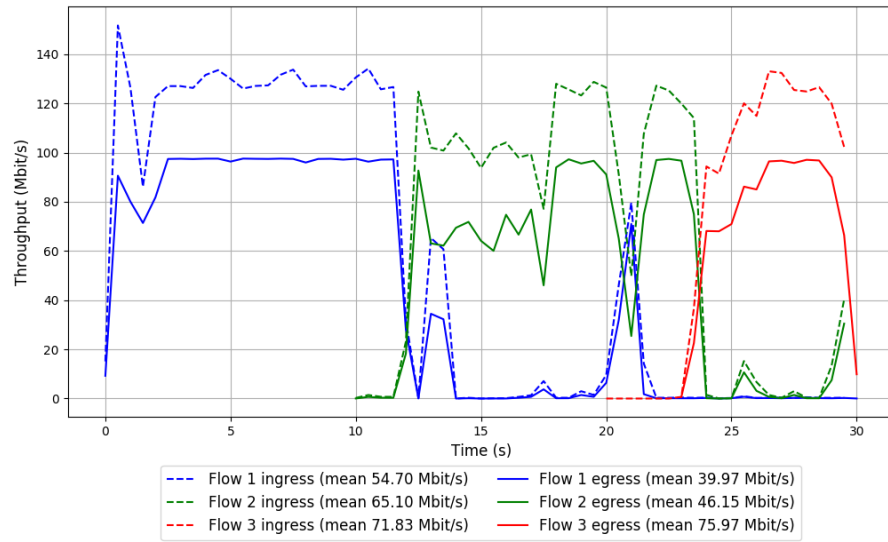


Run 7: Statistics of TCP BBR

Start at: 2017-09-18 10:41:14
End at: 2017-09-18 10:41:44
Local clock offset: 0.36 ms
Remote clock offset: -0.828 ms

Below is generated by plot.py at 2017-09-18 11:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 85.444 ms
Loss rate: 27.67%
-- Flow 1:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 84.667 ms
Loss rate: 26.82%
-- Flow 2:
Average throughput: 46.15 Mbit/s
95th percentile per-packet one-way delay: 86.219 ms
Loss rate: 29.37%
-- Flow 3:
Average throughput: 75.97 Mbit/s
95th percentile per-packet one-way delay: 85.280 ms
Loss rate: 26.52%

Run 7: Report of TCP BBR — Data Link

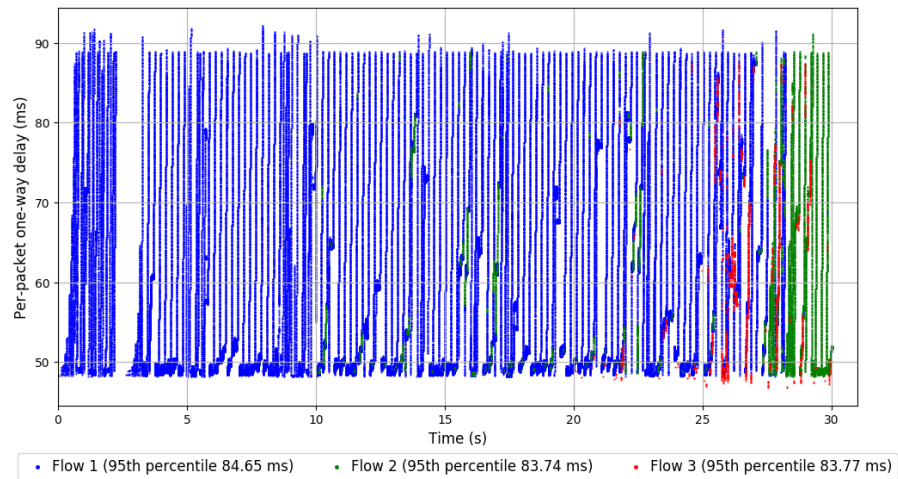
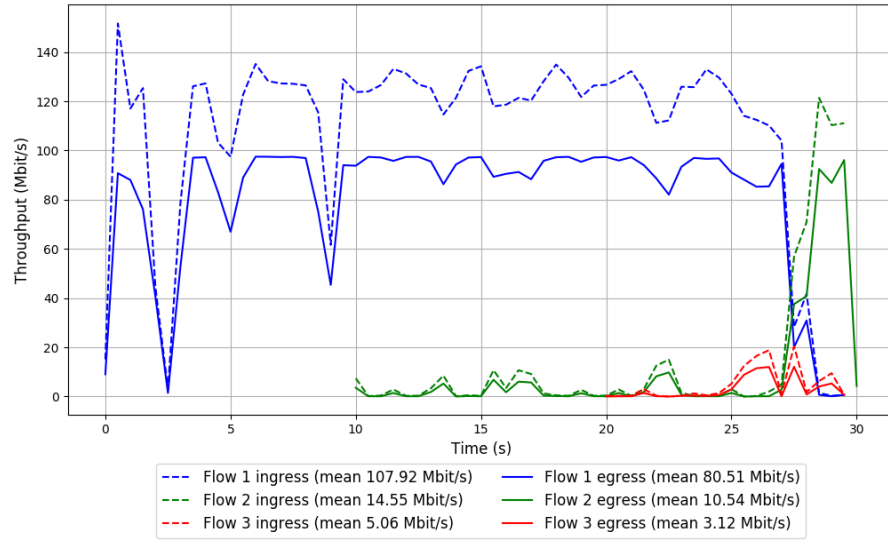


Run 8: Statistics of TCP BBR

Start at: 2017-09-18 10:55:07
End at: 2017-09-18 10:55:37
Local clock offset: 0.298 ms
Remote clock offset: -0.837 ms

Below is generated by plot.py at 2017-09-18 11:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 84.529 ms
Loss rate: 25.75%
-- Flow 1:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 84.647 ms
Loss rate: 25.38%
-- Flow 2:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 83.738 ms
Loss rate: 27.58%
-- Flow 3:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 83.767 ms
Loss rate: 38.40%

Run 8: Report of TCP BBR — Data Link

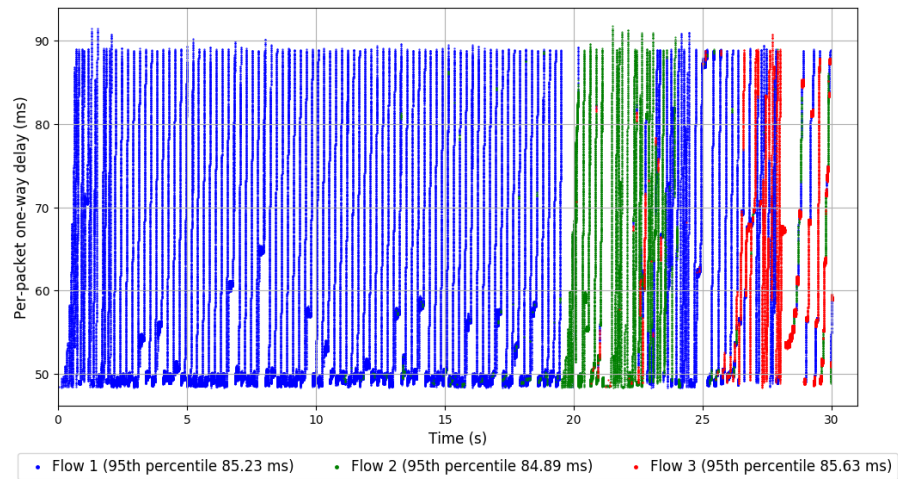
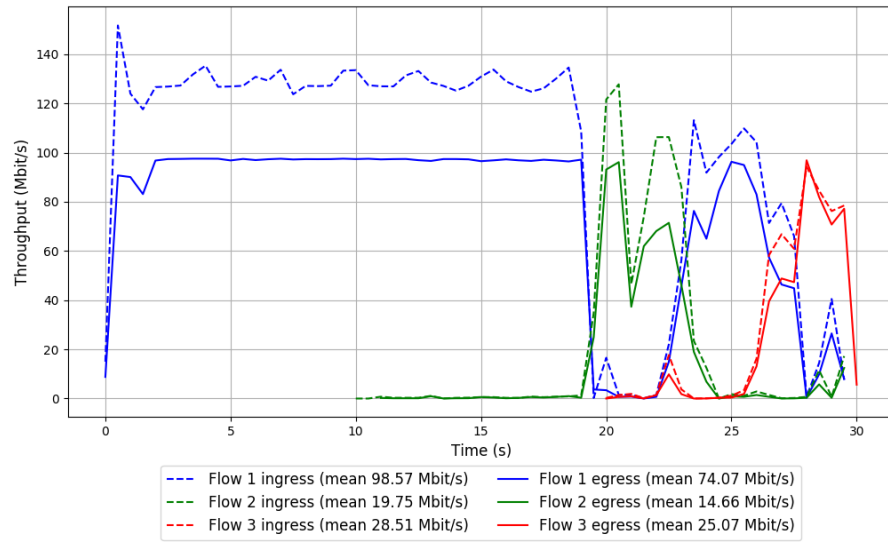


Run 9: Statistics of TCP BBR

Start at: 2017-09-18 11:09:02
End at: 2017-09-18 11:09:32
Local clock offset: 0.426 ms
Remote clock offset: -0.759 ms

Below is generated by plot.py at 2017-09-18 11:49:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.54 Mbit/s
95th percentile per-packet one-way delay: 85.225 ms
Loss rate: 24.35%
-- Flow 1:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 85.228 ms
Loss rate: 24.83%
-- Flow 2:
Average throughput: 14.66 Mbit/s
95th percentile per-packet one-way delay: 84.889 ms
Loss rate: 29.57%
-- Flow 3:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 85.632 ms
Loss rate: 12.17%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-18 11:22:58

End at: 2017-09-18 11:23:28

Local clock offset: 0.39 ms

Remote clock offset: 1.797 ms

Below is generated by plot.py at 2017-09-18 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.14 Mbit/s

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

Loss rate: 25.02%

-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 87.234 ms

Loss rate: 24.90%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 89.298 ms

Loss rate: 33.15%

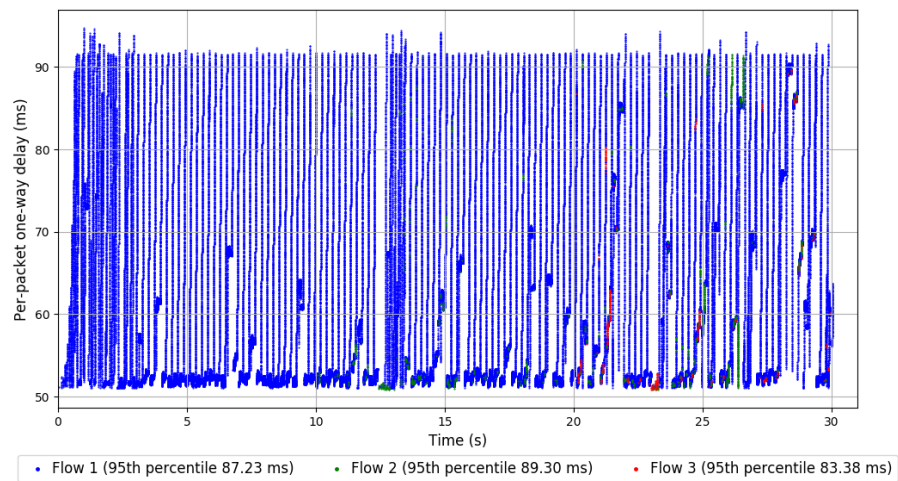
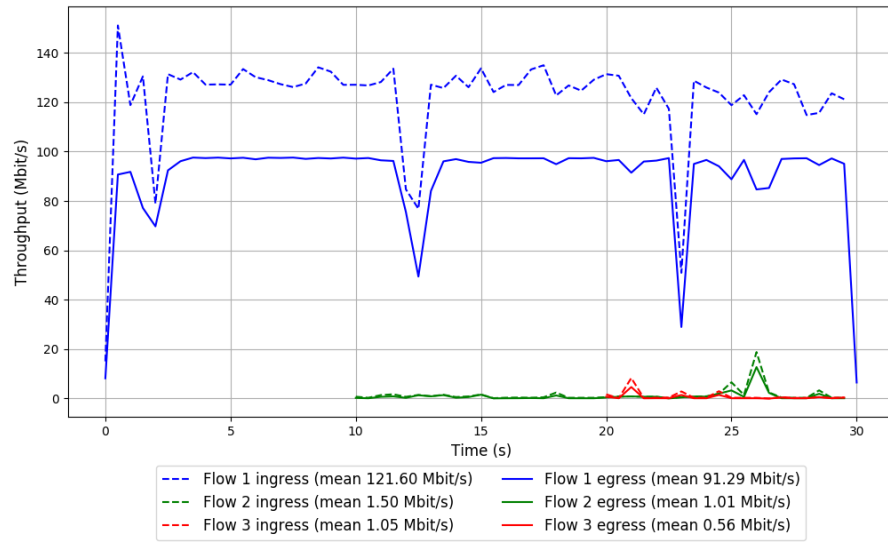
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 83.380 ms

Loss rate: 46.65%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 09:05:13

End at: 2017-09-18 09:05:43

Local clock offset: 0.837 ms

Remote clock offset: 2.262 ms

Below is generated by plot.py at 2017-09-18 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.44 Mbit/s

95th percentile per-packet one-way delay: 83.183 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 80.186 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 84.243 ms

Loss rate: 0.37%

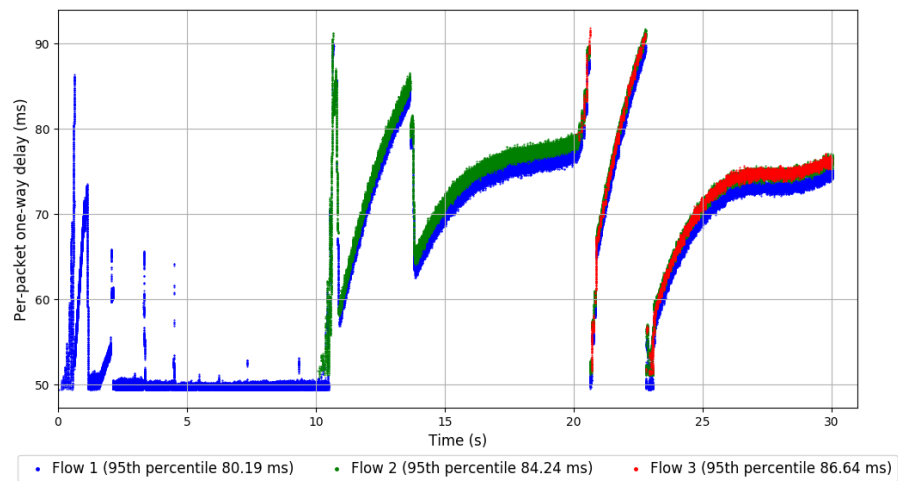
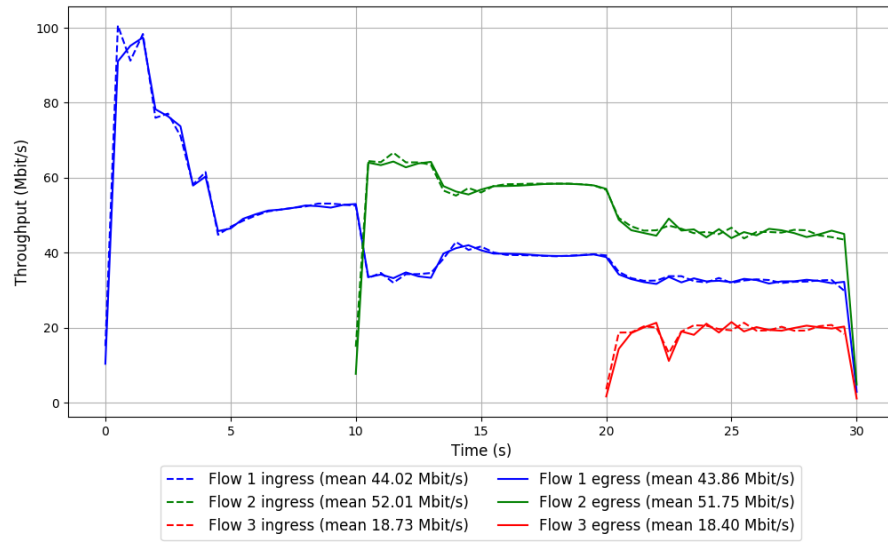
-- Flow 3:

Average throughput: 18.40 Mbit/s

95th percentile per-packet one-way delay: 86.644 ms

Loss rate: 1.81%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 09:19:07

End at: 2017-09-18 09:19:37

Local clock offset: 0.882 ms

Remote clock offset: 1.64 ms

Below is generated by plot.py at 2017-09-18 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 85.577 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 85.556 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 26.90 Mbit/s

95th percentile per-packet one-way delay: 86.155 ms

Loss rate: 1.17%

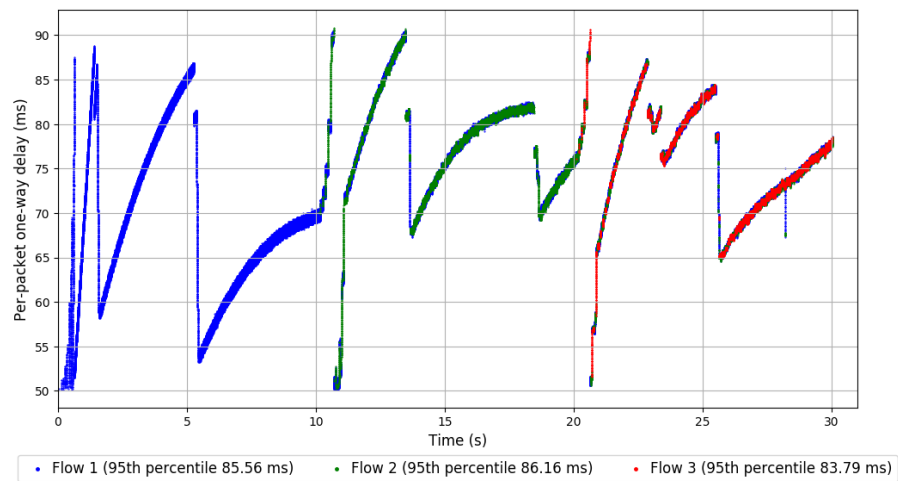
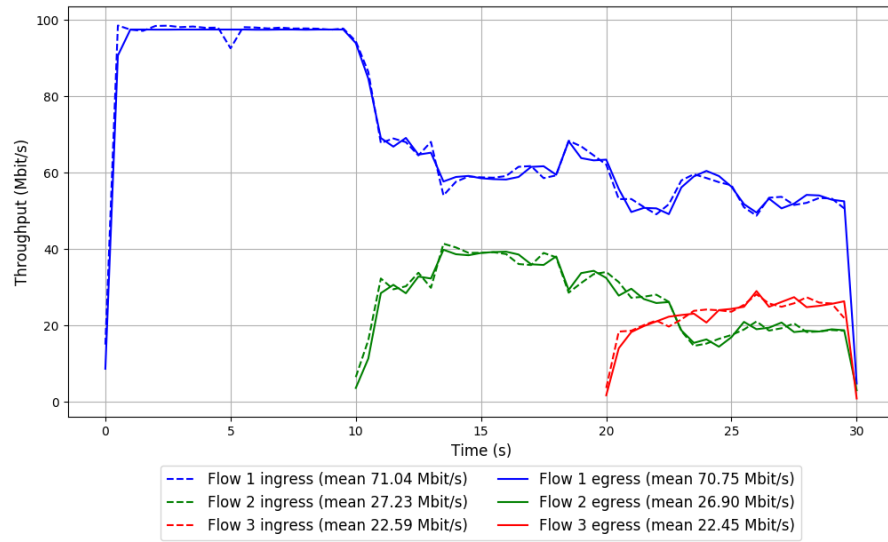
-- Flow 3:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 83.790 ms

Loss rate: 0.62%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 09:33:07

End at: 2017-09-18 09:33:37

Local clock offset: 0.702 ms

Remote clock offset: 1.734 ms

Below is generated by plot.py at 2017-09-18 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 85.305 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 67.35 Mbit/s

95th percentile per-packet one-way delay: 85.949 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 84.779 ms

Loss rate: 0.29%

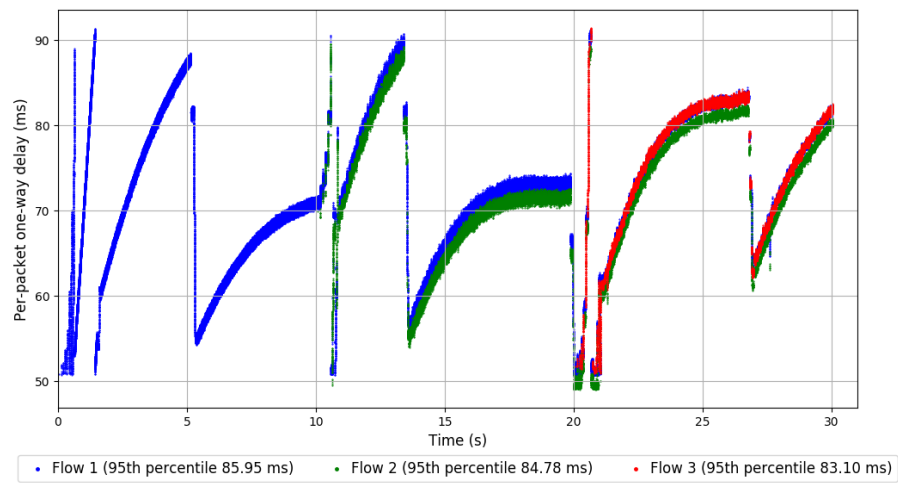
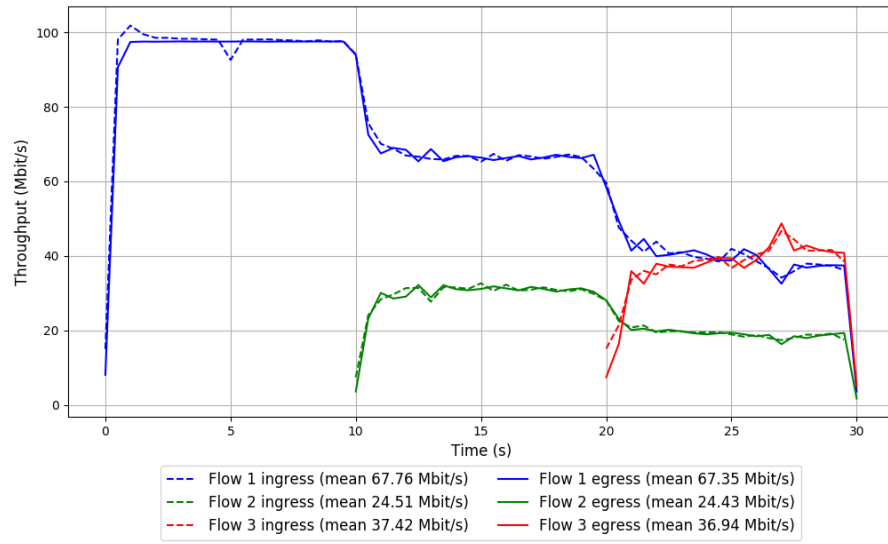
-- Flow 3:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 83.101 ms

Loss rate: 0.98%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 09:47:04

End at: 2017-09-18 09:47:34

Local clock offset: 0.634 ms

Remote clock offset: 1.852 ms

Below is generated by plot.py at 2017-09-18 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 84.500 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 57.98 Mbit/s

95th percentile per-packet one-way delay: 87.022 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 78.634 ms

Loss rate: 0.95%

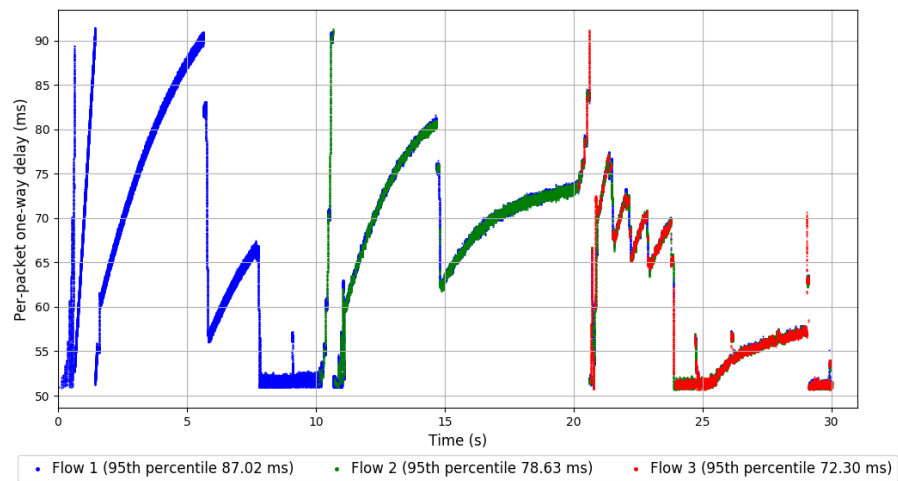
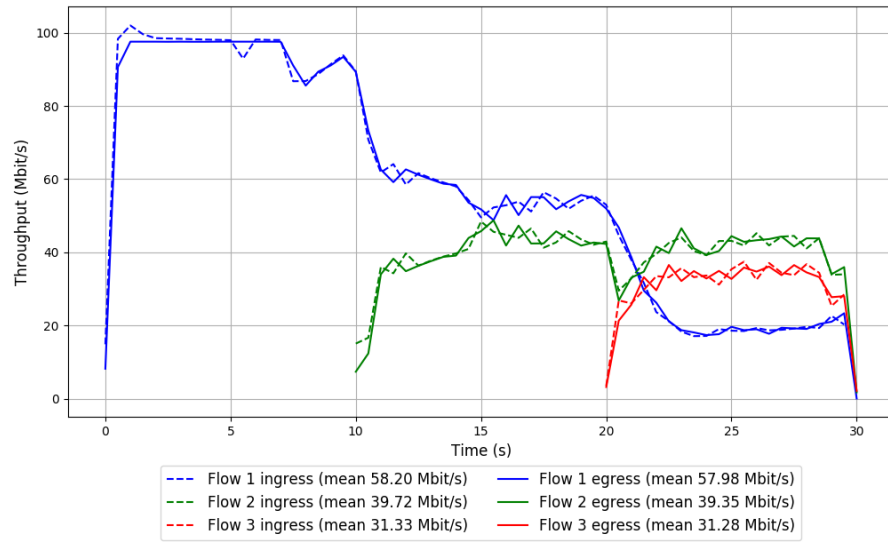
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 72.298 ms

Loss rate: 0.39%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 10:01:01

End at: 2017-09-18 10:01:31

Local clock offset: 0.52 ms

Remote clock offset: 1.294 ms

Below is generated by plot.py at 2017-09-18 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 88.309 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 70.91 Mbit/s

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

Loss rate: 1.01%

-- Flow 2:

Average throughput: 25.38 Mbit/s

95th percentile per-packet one-way delay: 88.214 ms

Loss rate: 0.36%

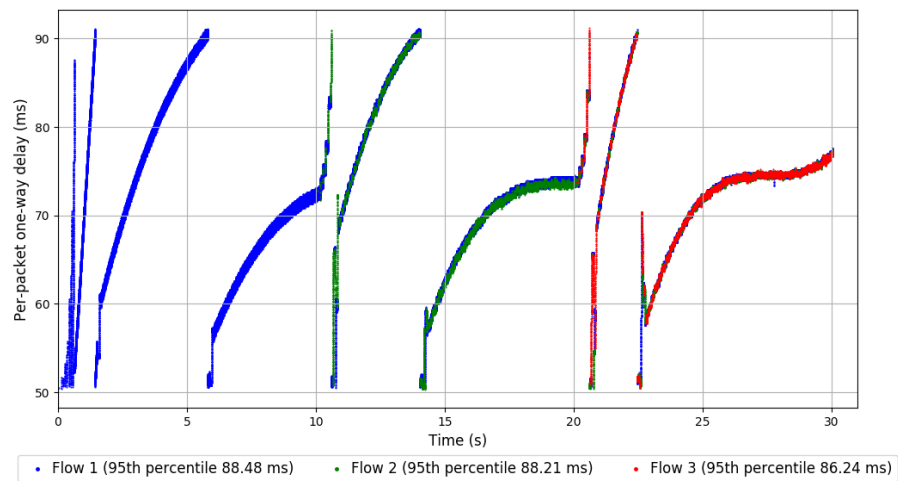
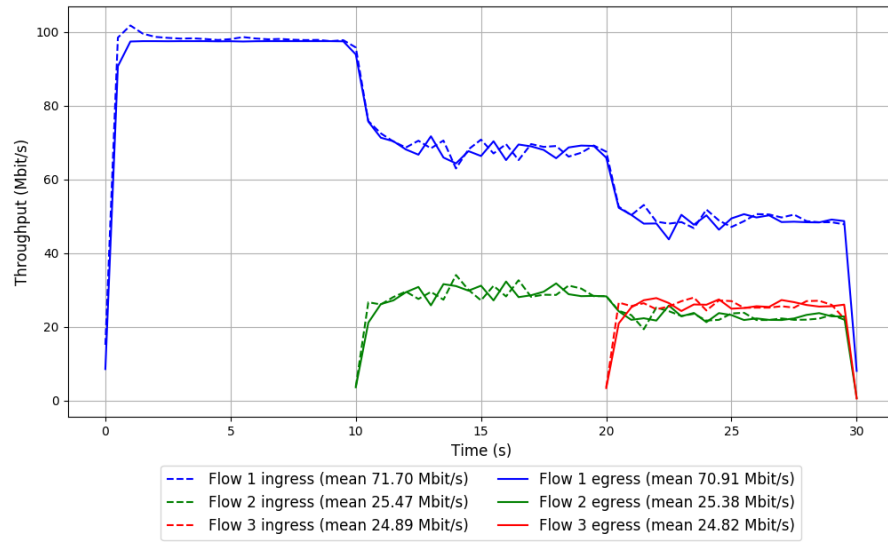
-- Flow 3:

Average throughput: 24.82 Mbit/s

95th percentile per-packet one-way delay: 86.241 ms

Loss rate: 0.25%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 10:14:54

End at: 2017-09-18 10:15:24

Local clock offset: 0.453 ms

Remote clock offset: 1.257 ms

Below is generated by plot.py at 2017-09-18 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 87.904 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 51.86 Mbit/s

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

Loss rate: 0.93%

-- Flow 2:

Average throughput: 48.65 Mbit/s

95th percentile per-packet one-way delay: 87.095 ms

Loss rate: 0.74%

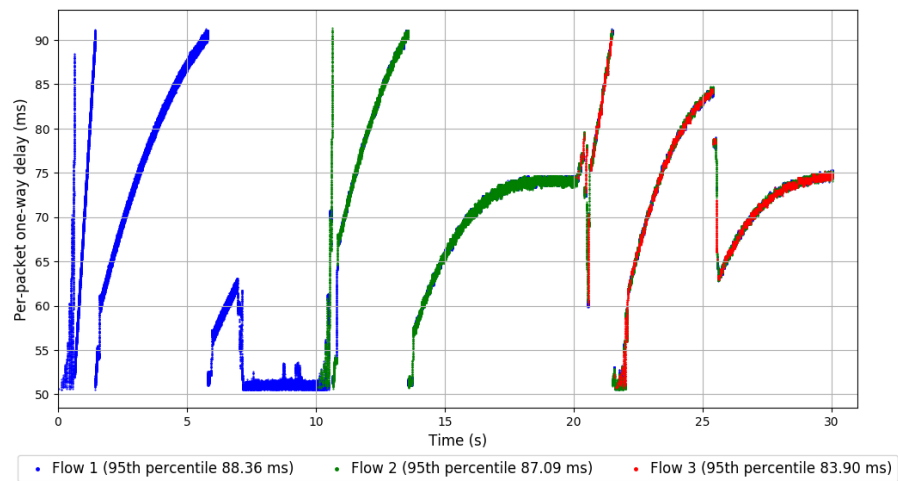
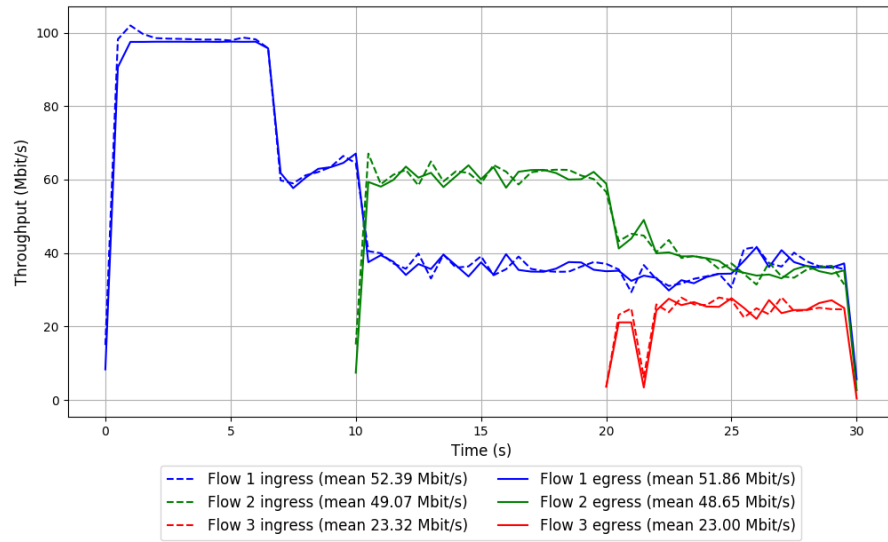
-- Flow 3:

Average throughput: 23.00 Mbit/s

95th percentile per-packet one-way delay: 83.899 ms

Loss rate: 1.38%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 10:28:45

End at: 2017-09-18 10:29:15

Local clock offset: 0.508 ms

Remote clock offset: 1.151 ms

Below is generated by plot.py at 2017-09-18 11:50:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 86.255 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 57.75 Mbit/s

95th percentile per-packet one-way delay: 86.177 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 46.74 Mbit/s

95th percentile per-packet one-way delay: 86.373 ms

Loss rate: 0.61%

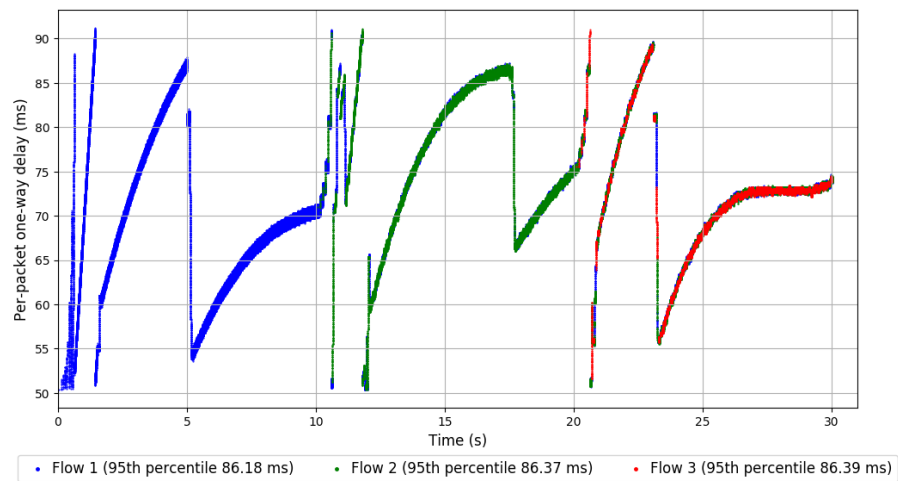
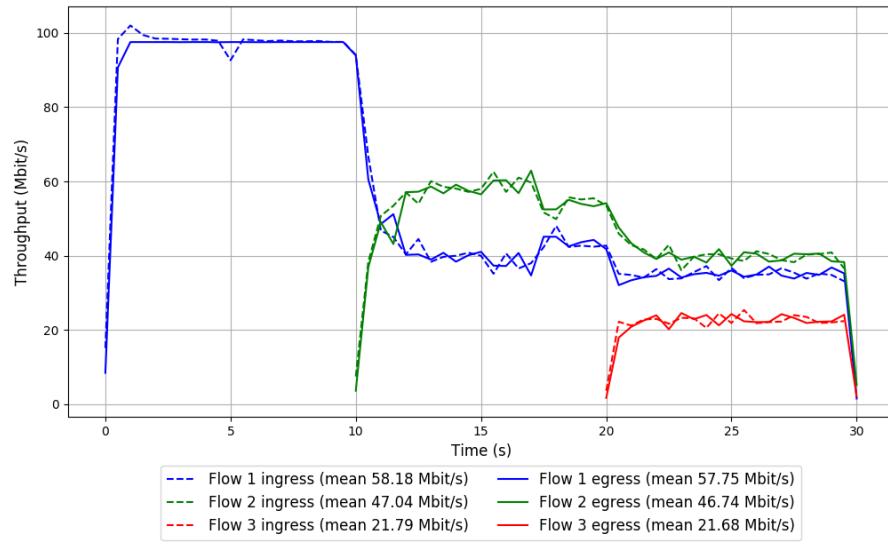
-- Flow 3:

Average throughput: 21.68 Mbit/s

95th percentile per-packet one-way delay: 86.395 ms

Loss rate: 0.54%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 10:42:39

End at: 2017-09-18 10:43:09

Local clock offset: 0.457 ms

Remote clock offset: 1.129 ms

Below is generated by plot.py at 2017-09-18 11:50:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 83.705 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 66.44 Mbit/s

95th percentile per-packet one-way delay: 84.143 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 79.312 ms

Loss rate: 0.92%

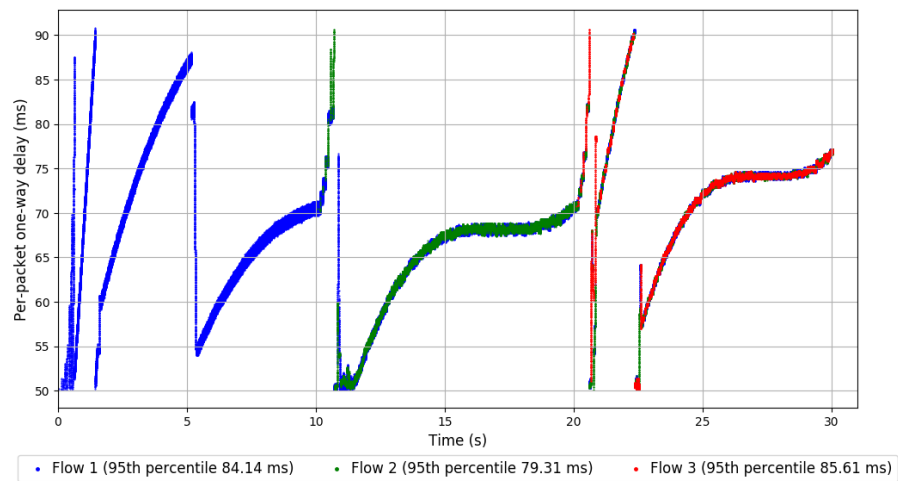
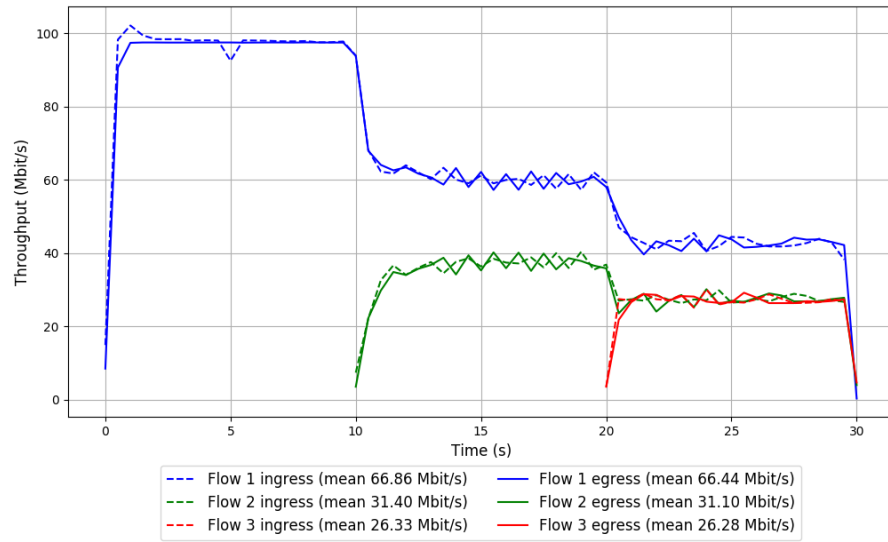
-- Flow 3:

Average throughput: 26.28 Mbit/s

95th percentile per-packet one-way delay: 85.615 ms

Loss rate: 0.13%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 10:56:32

End at: 2017-09-18 10:57:02

Local clock offset: 0.291 ms

Remote clock offset: 1.168 ms

Below is generated by plot.py at 2017-09-18 11:50:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 85.488 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 85.660 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 84.110 ms

Loss rate: 0.56%

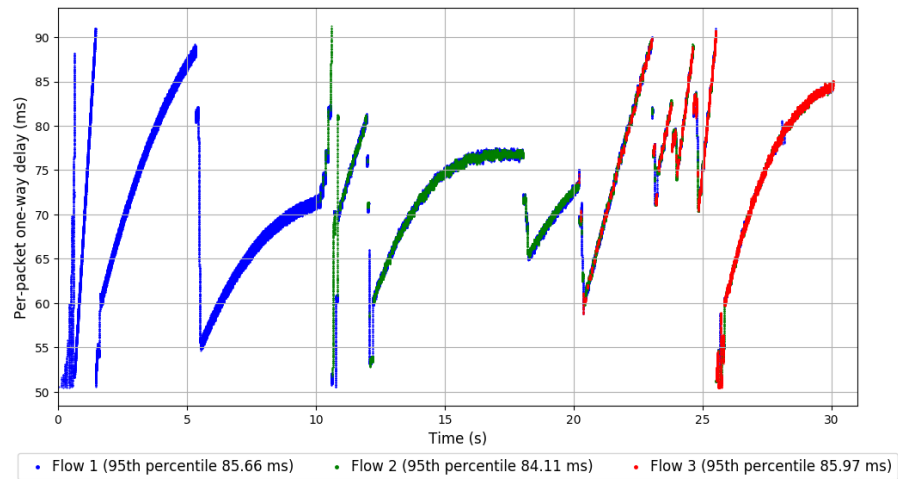
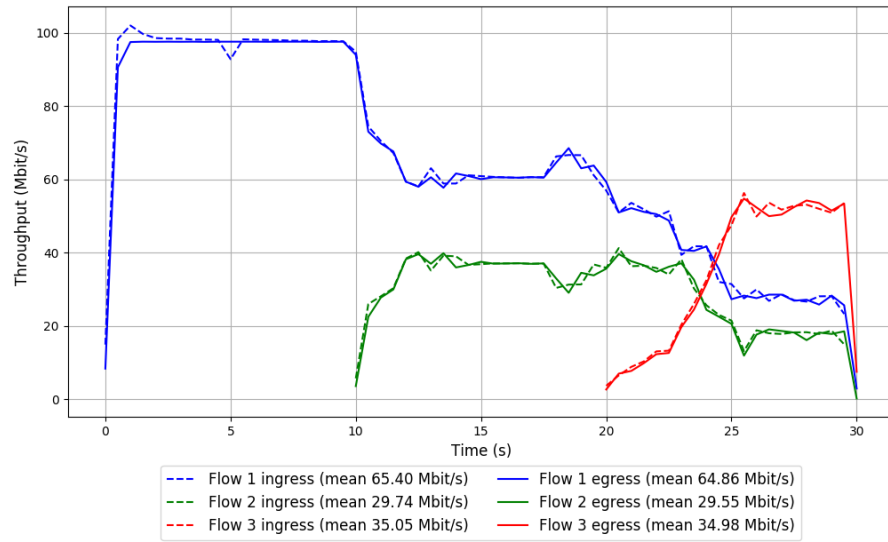
-- Flow 3:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 85.975 ms

Loss rate: 0.10%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 11:10:27

End at: 2017-09-18 11:10:57

Local clock offset: 0.342 ms

Remote clock offset: 1.319 ms

Below is generated by plot.py at 2017-09-18 11:50:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 82.392 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 69.06 Mbit/s

95th percentile per-packet one-way delay: 83.000 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 29.09 Mbit/s

95th percentile per-packet one-way delay: 81.263 ms

Loss rate: 0.77%

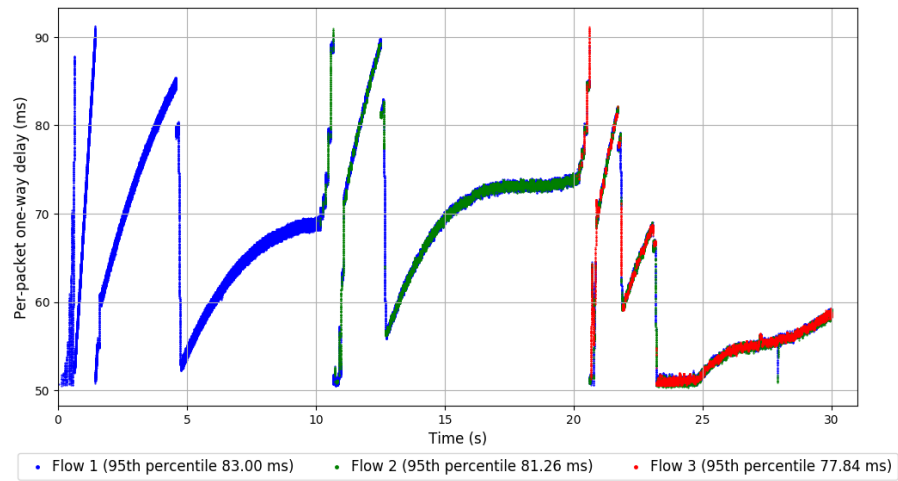
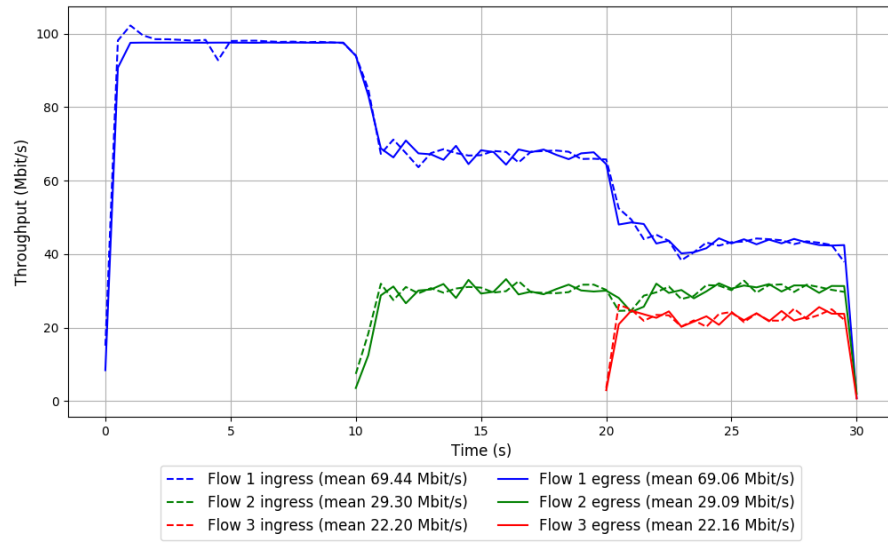
-- Flow 3:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 77.841 ms

Loss rate: 0.32%

Run 10: Report of TCP Cubic — Data Link

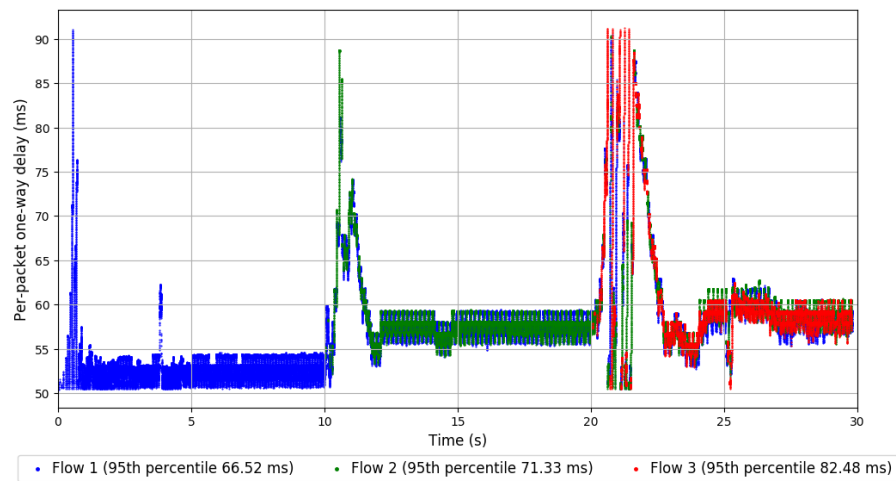
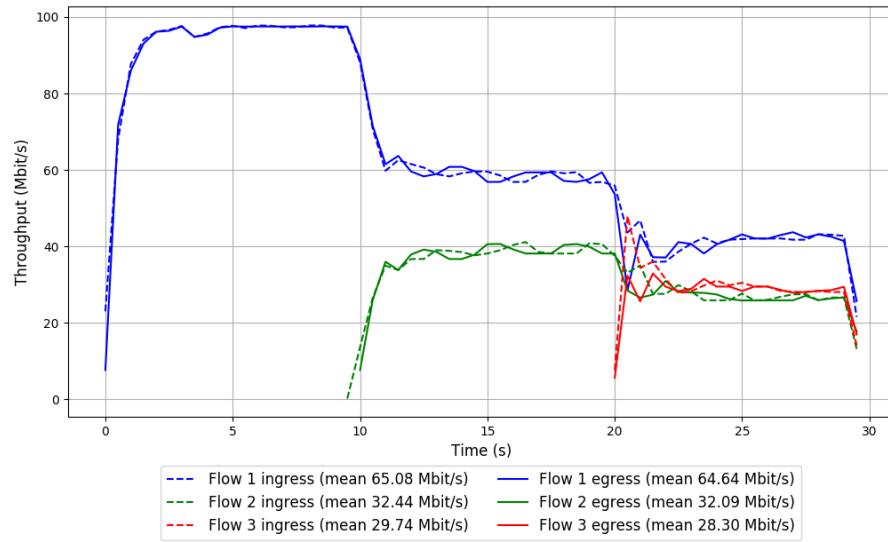


```
Run 1: Statistics of Indigo

Start at: 2017-09-18 09:10:46
End at: 2017-09-18 09:11:16
Local clock offset: 0.809 ms
Remote clock offset: 1.653 ms

# Below is generated by plot.py at 2017-09-18 11:50:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 69.365 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 66.517 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 71.335 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 82.485 ms
Loss rate: 4.81%
```


Run 1: Report of Indigo — Data Link

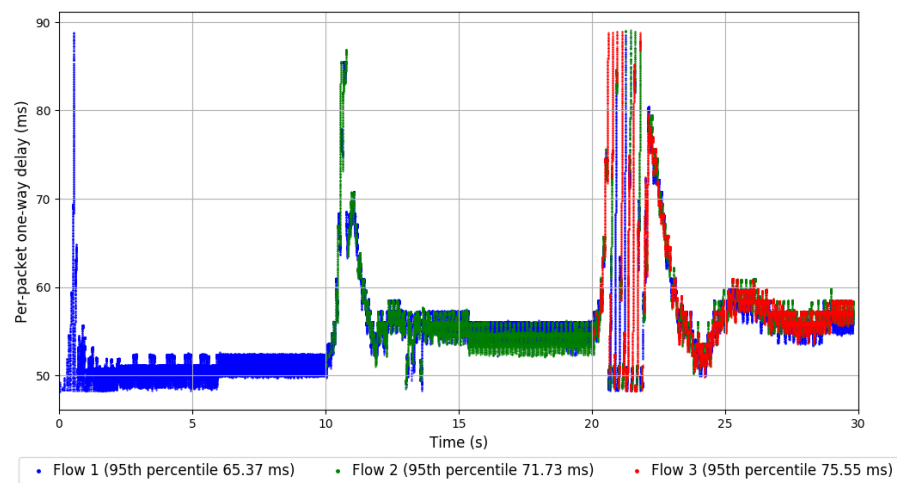
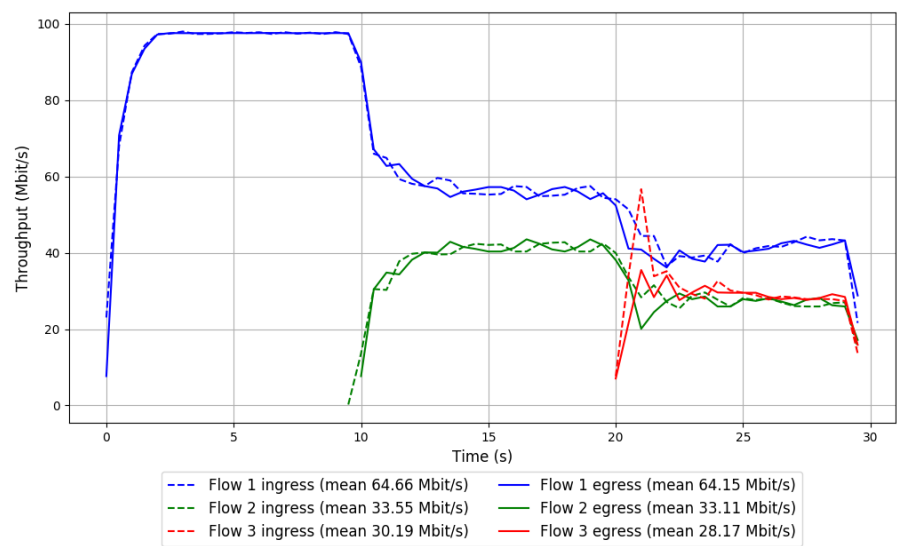


Run 2: Statistics of Indigo

Start at: 2017-09-18 09:24:39
End at: 2017-09-18 09:25:09
Local clock offset: 0.755 ms
Remote clock offset: -0.421 ms

Below is generated by plot.py at 2017-09-18 11:50:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 68.243 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 65.366 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 71.735 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 28.17 Mbit/s
95th percentile per-packet one-way delay: 75.552 ms
Loss rate: 6.66%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-18 09:38:41

End at: 2017-09-18 09:39:11

Local clock offset: 0.683 ms

Remote clock offset: -0.59 ms

Below is generated by plot.py at 2017-09-18 11:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 71.756 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 66.957 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 73.052 ms

Loss rate: 2.53%

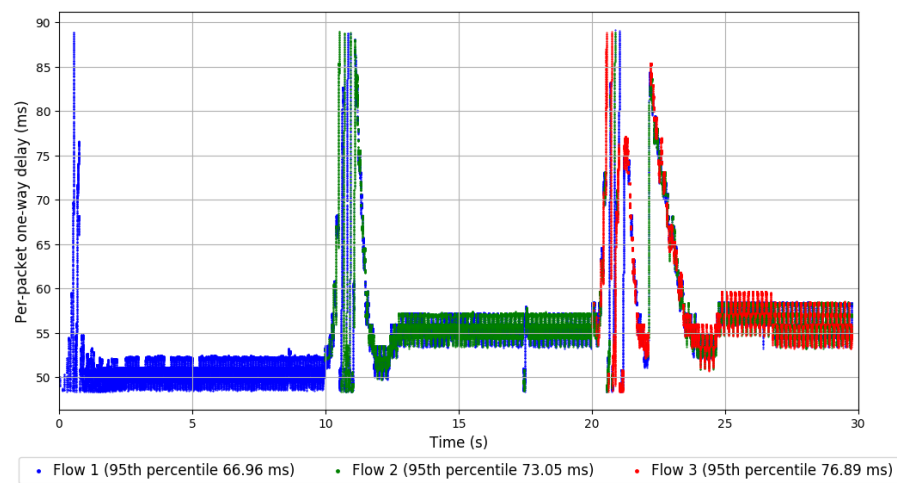
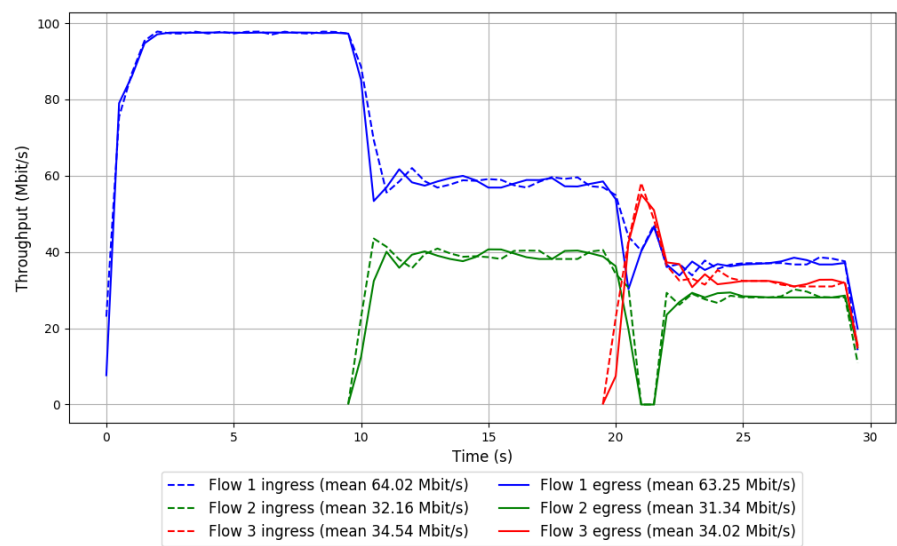
-- Flow 3:

Average throughput: 34.02 Mbit/s

95th percentile per-packet one-way delay: 76.888 ms

Loss rate: 1.51%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-18 09:52:37

End at: 2017-09-18 09:53:07

Local clock offset: 0.57 ms

Remote clock offset: 1.414 ms

Below is generated by plot.py at 2017-09-18 11:50:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 69.168 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 63.24 Mbit/s

95th percentile per-packet one-way delay: 66.618 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 71.066 ms

Loss rate: 1.06%

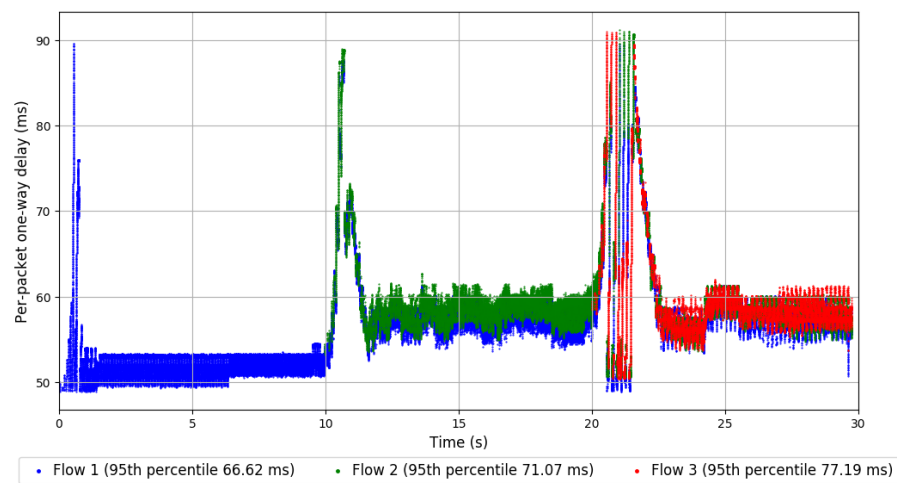
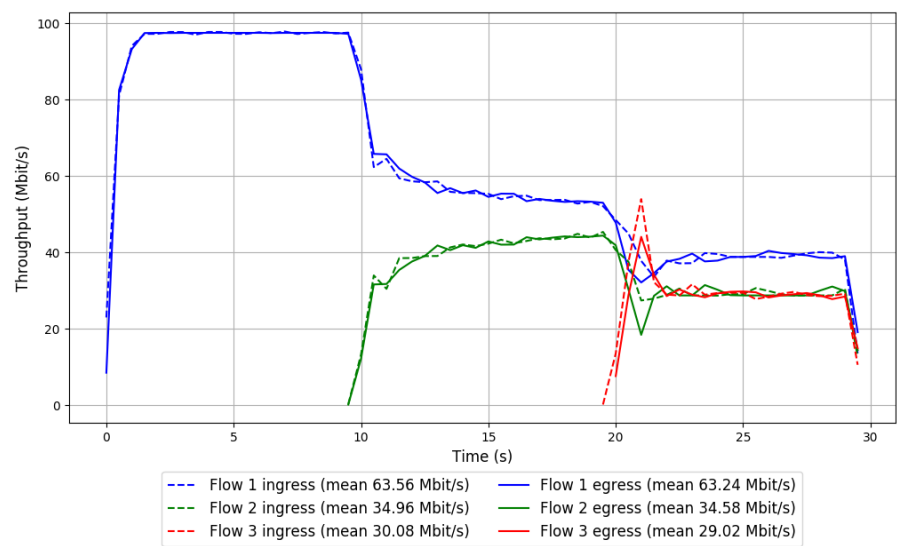
-- Flow 3:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 77.188 ms

Loss rate: 3.52%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-18 10:06:33

End at: 2017-09-18 10:07:03

Local clock offset: 0.585 ms

Remote clock offset: 1.205 ms

Below is generated by plot.py at 2017-09-18 11:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 67.718 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 66.261 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 70.112 ms

Loss rate: 0.00%

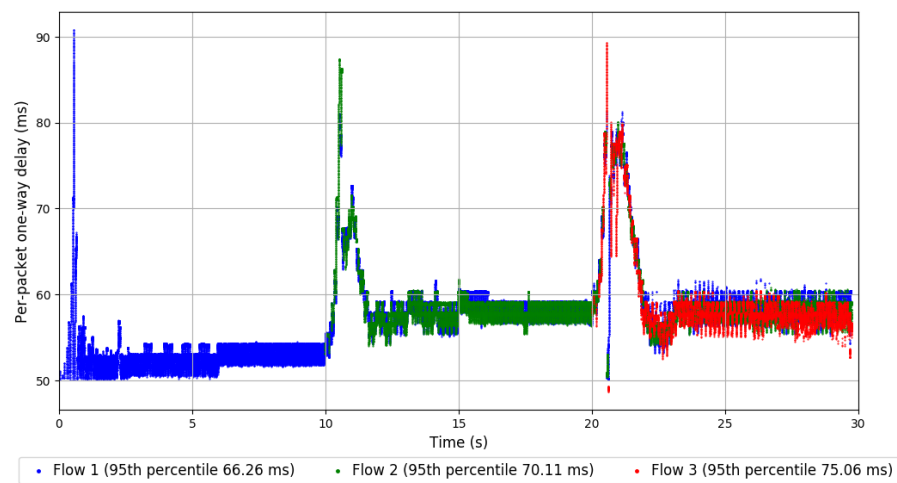
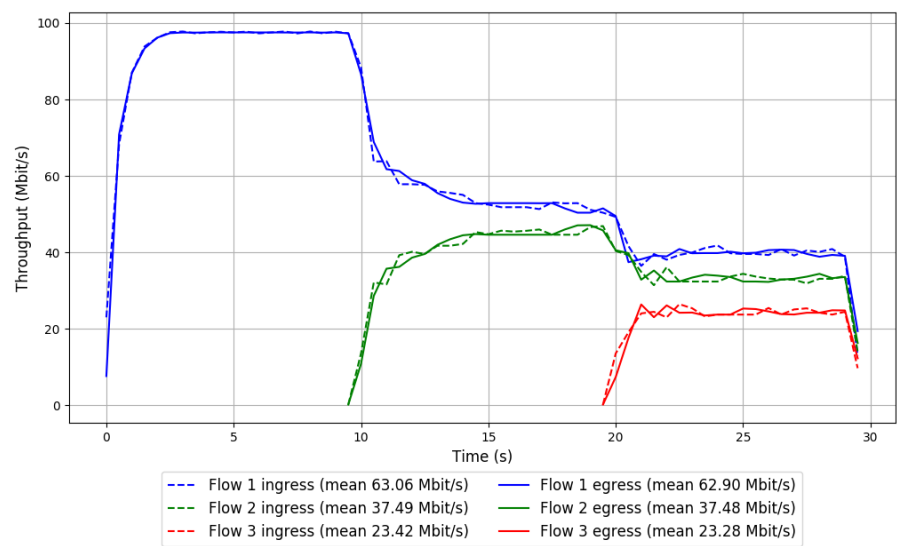
-- Flow 3:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 75.060 ms

Loss rate: 0.64%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-18 10:20:24

End at: 2017-09-18 10:20:54

Local clock offset: 0.515 ms

Remote clock offset: 1.248 ms

Below is generated by plot.py at 2017-09-18 11:51:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 73.704 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 60.18 Mbit/s

95th percentile per-packet one-way delay: 69.886 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 36.40 Mbit/s

95th percentile per-packet one-way delay: 77.413 ms

Loss rate: 1.99%

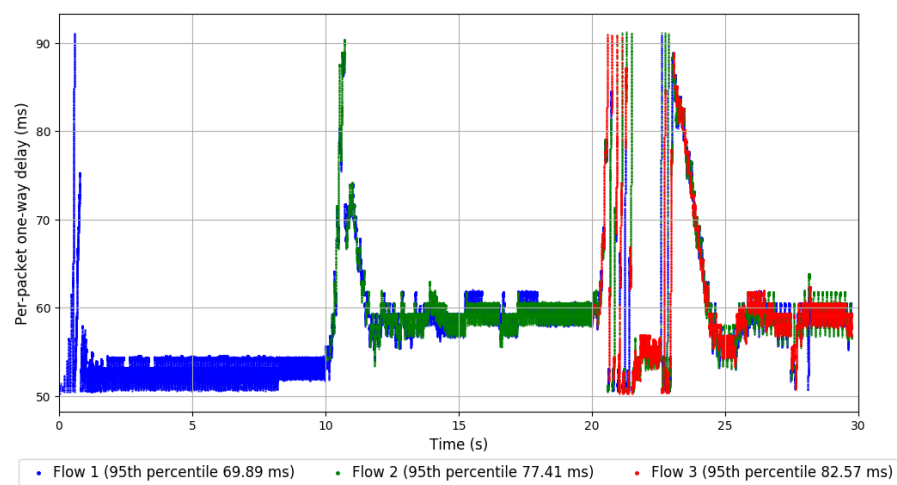
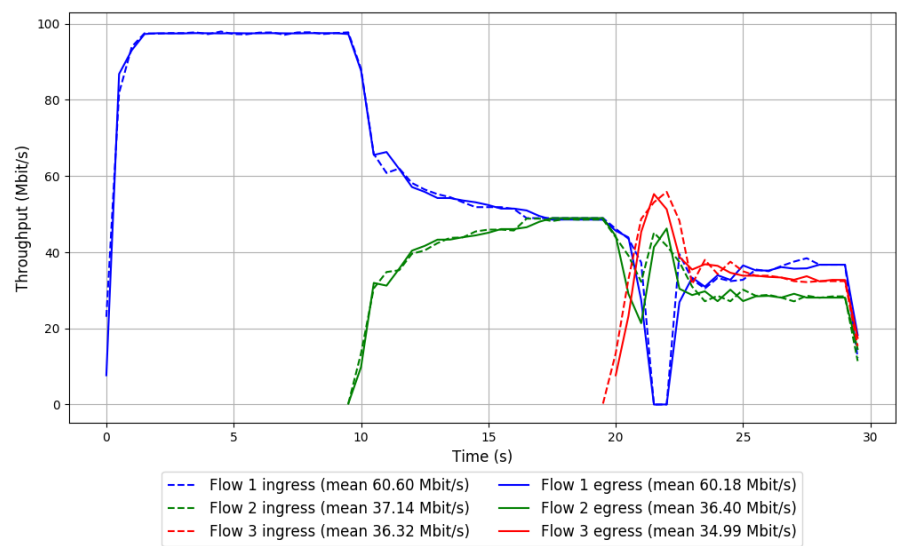
-- Flow 3:

Average throughput: 34.99 Mbit/s

95th percentile per-packet one-way delay: 82.570 ms

Loss rate: 3.67%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-18 10:34:17

End at: 2017-09-18 10:34:47

Local clock offset: 0.381 ms

Remote clock offset: 1.674 ms

Below is generated by plot.py at 2017-09-18 11:51:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 75.458 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 69.487 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 33.73 Mbit/s

95th percentile per-packet one-way delay: 79.102 ms

Loss rate: 0.91%

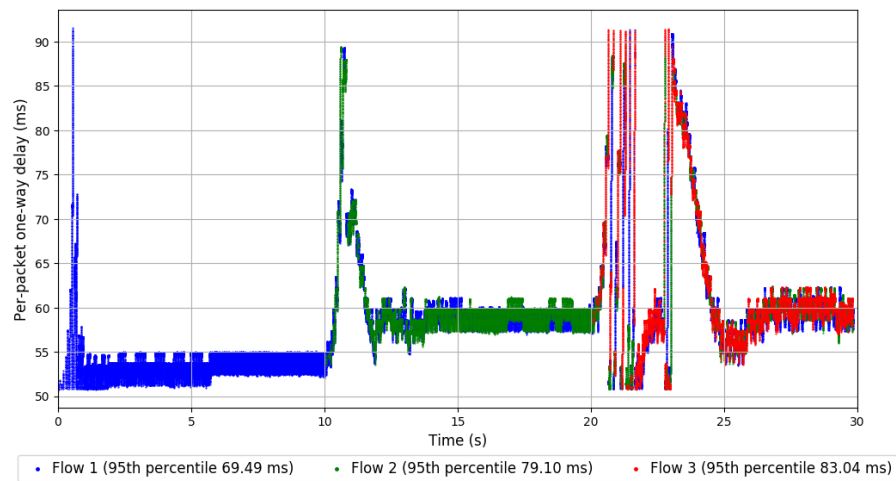
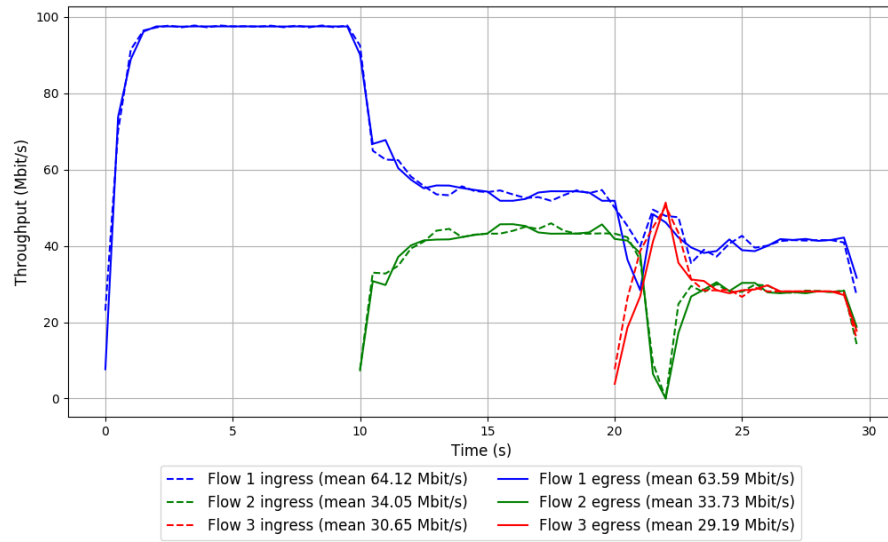
-- Flow 3:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 83.042 ms

Loss rate: 4.74%

Run 7: Report of Indigo — Data Link

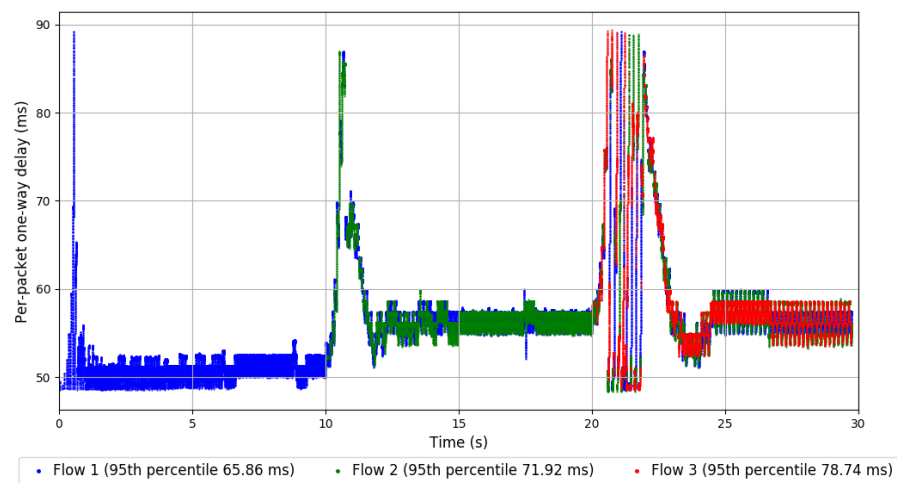
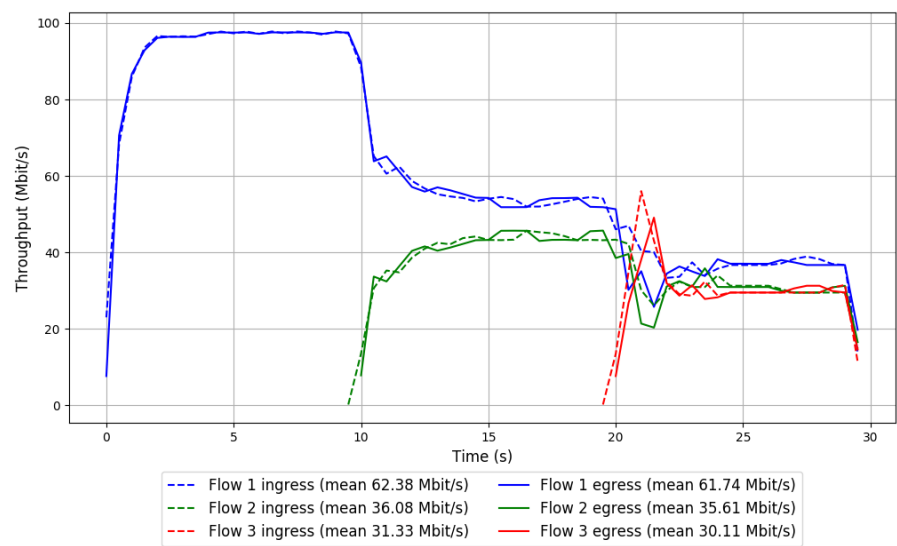


Run 8: Statistics of Indigo

Start at: 2017-09-18 10:48:11
End at: 2017-09-18 10:48:41
Local clock offset: 0.321 ms
Remote clock offset: -0.792 ms

Below is generated by plot.py at 2017-09-18 11:51:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 68.868 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 61.74 Mbit/s
95th percentile per-packet one-way delay: 65.865 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 71.916 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 78.737 ms
Loss rate: 3.93%

Run 8: Report of Indigo — Data Link

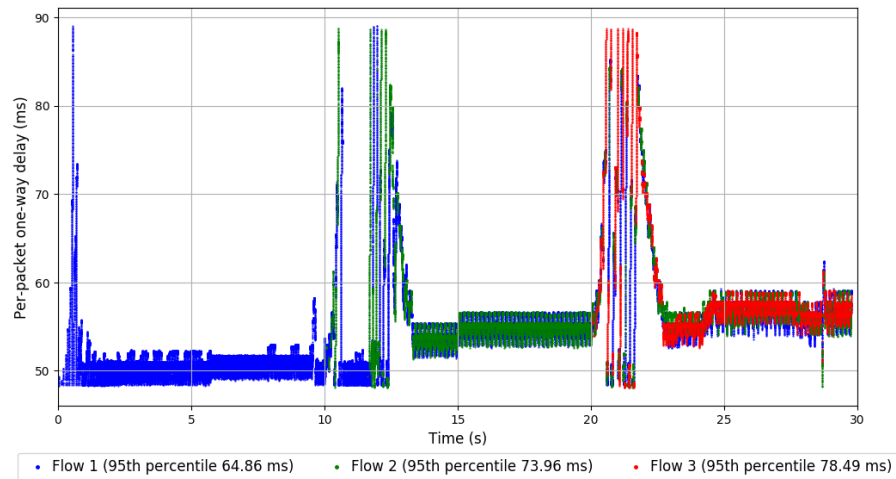
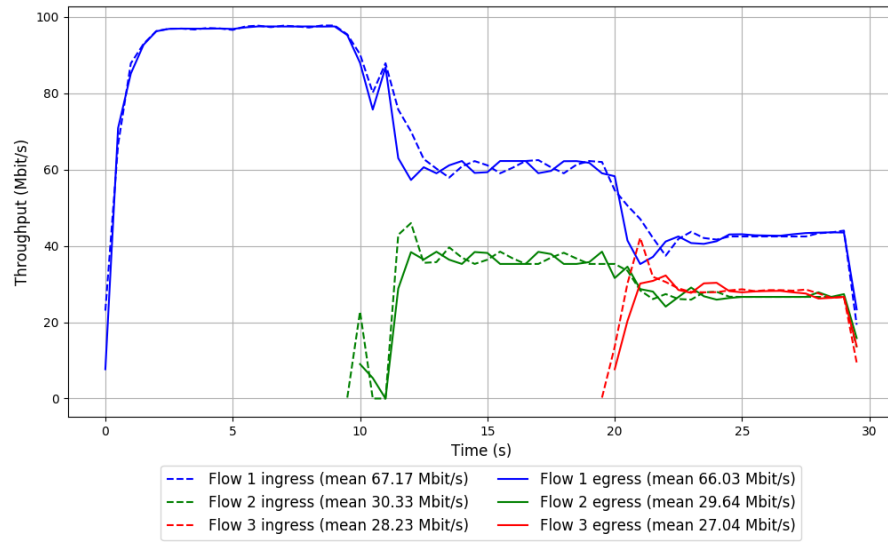


Run 9: Statistics of Indigo

Start at: 2017-09-18 11:02:04
End at: 2017-09-18 11:02:34
Local clock offset: 0.277 ms
Remote clock offset: -0.946 ms

Below is generated by plot.py at 2017-09-18 11:51:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 68.892 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 64.855 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 73.957 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 78.492 ms
Loss rate: 4.21%

Run 9: Report of Indigo — Data Link

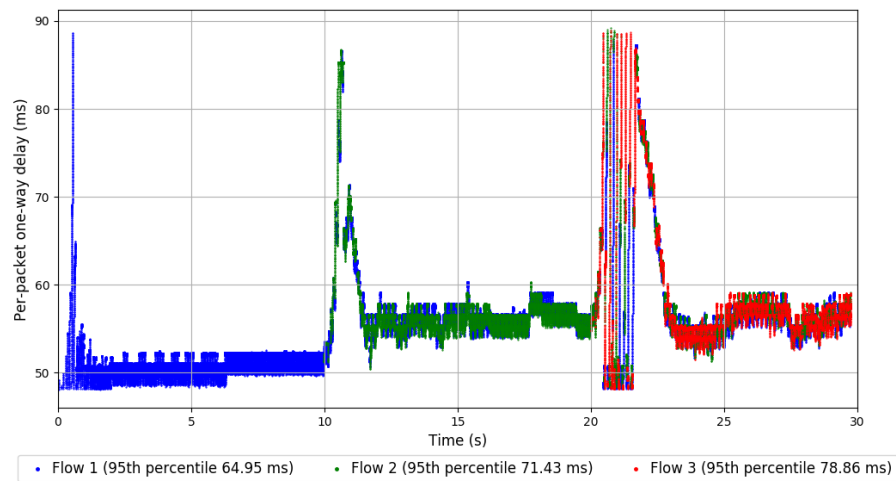
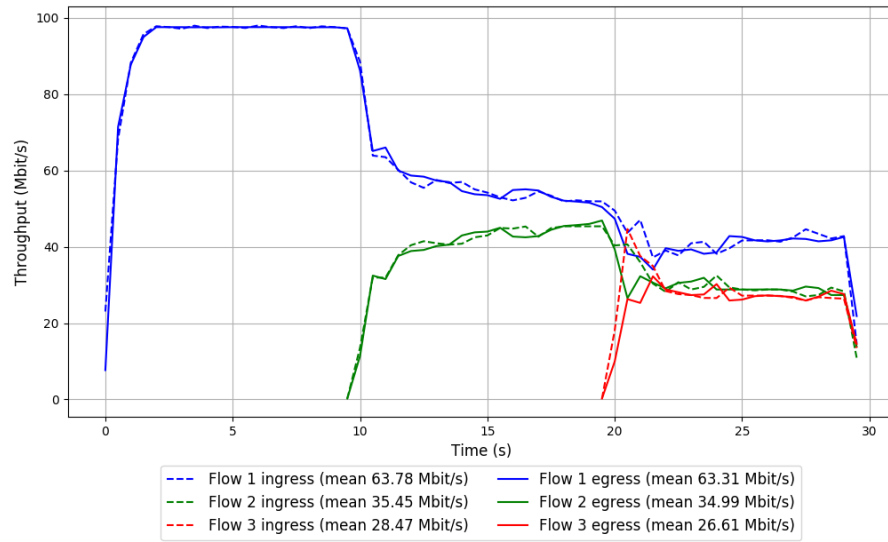


Run 10: Statistics of Indigo

Start at: 2017-09-18 11:16:00
End at: 2017-09-18 11:16:30
Local clock offset: 0.461 ms
Remote clock offset: -0.843 ms

Below is generated by plot.py at 2017-09-18 11:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.34 Mbit/s
95th percentile per-packet one-way delay: 68.128 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 63.31 Mbit/s
95th percentile per-packet one-way delay: 64.954 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 71.429 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 26.61 Mbit/s
95th percentile per-packet one-way delay: 78.860 ms
Loss rate: 6.49%

Run 10: Report of Indigo — Data Link

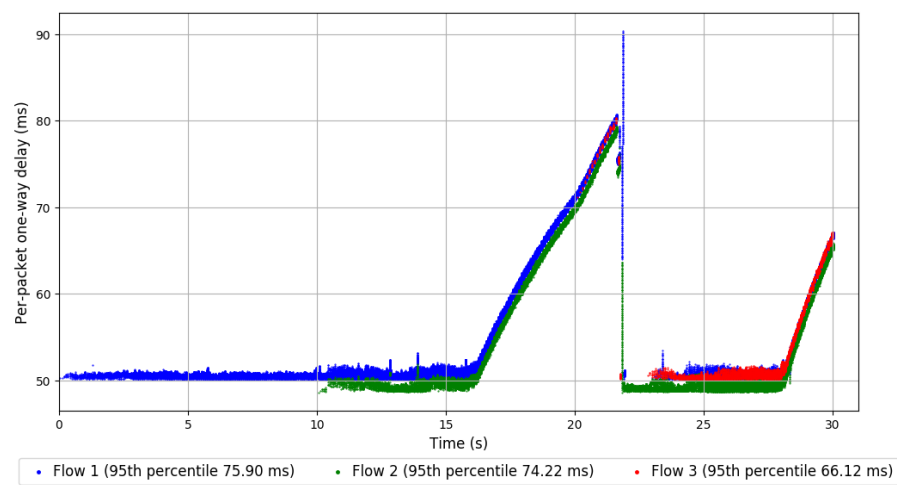
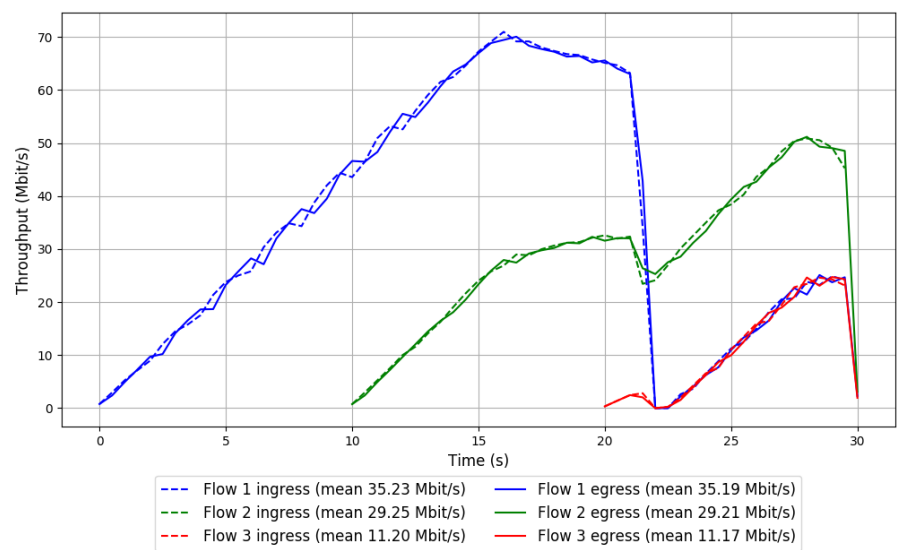


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-18 09:13:34
End at: 2017-09-18 09:14:04
Local clock offset: 0.896 ms
Remote clock offset: 1.674 ms

# Below is generated by plot.py at 2017-09-18 11:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 75.364 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 75.902 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 74.216 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 66.120 ms
Loss rate: 0.35%
```

Run 1: Report of LEDBAT — Data Link

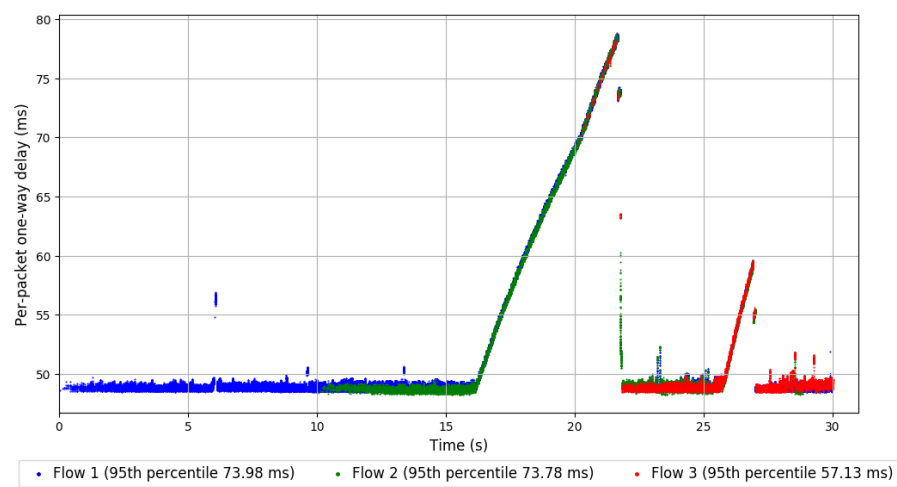
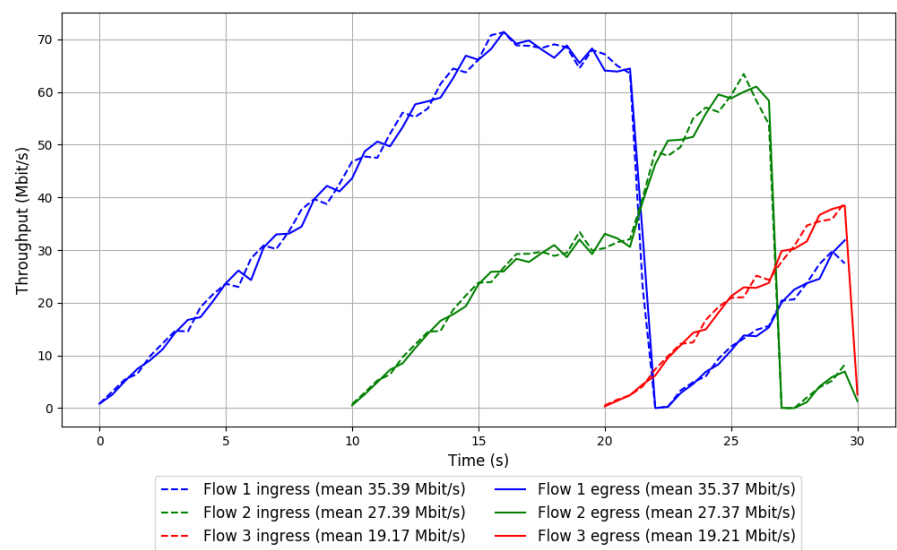


Run 2: Statistics of LEDBAT

Start at: 2017-09-18 09:27:27
End at: 2017-09-18 09:27:57
Local clock offset: 0.734 ms
Remote clock offset: -0.406 ms

Below is generated by plot.py at 2017-09-18 11:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 73.741 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 73.977 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 73.781 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 57.132 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-18 09:41:30

End at: 2017-09-18 09:42:00

Local clock offset: 0.655 ms

Remote clock offset: 1.981 ms

Below is generated by plot.py at 2017-09-18 11:52:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.33 Mbit/s

95th percentile per-packet one-way delay: 86.560 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 86.028 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 87.571 ms

Loss rate: 0.62%

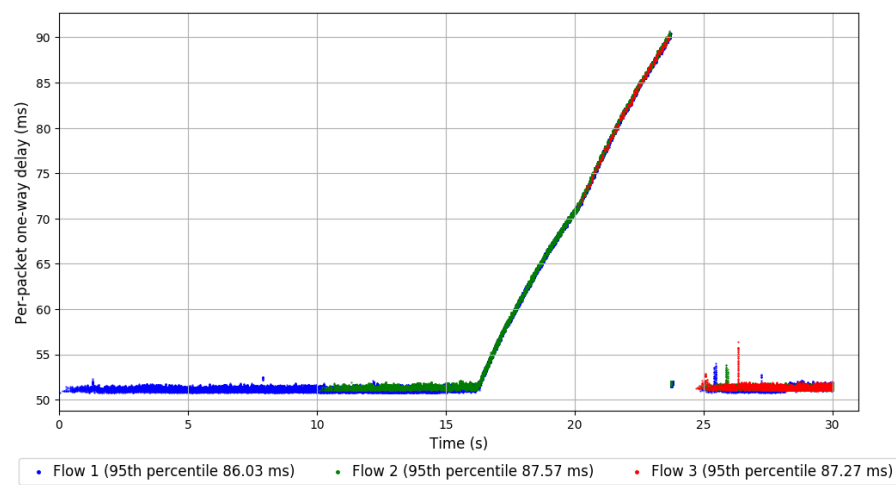
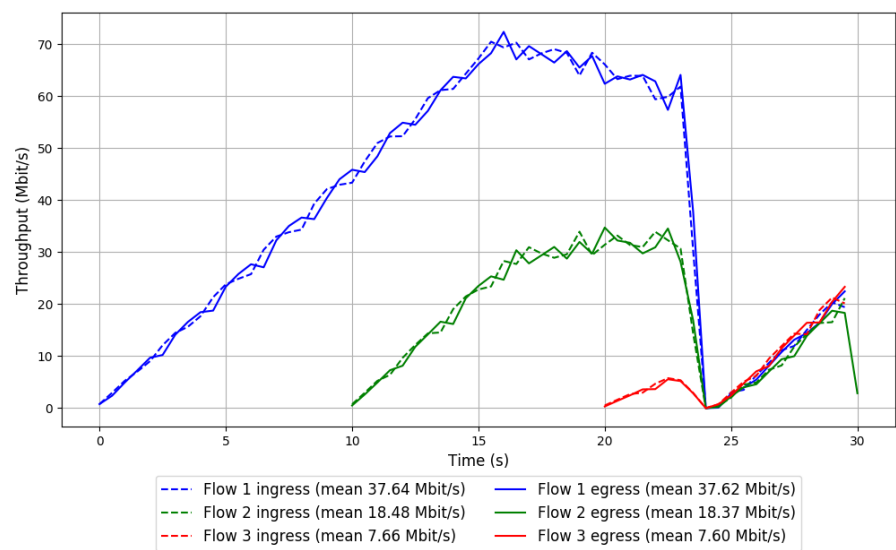
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 87.266 ms

Loss rate: 0.97%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-18 09:55:26

End at: 2017-09-18 09:55:56

Local clock offset: 0.654 ms

Remote clock offset: 1.496 ms

Below is generated by plot.py at 2017-09-18 11:52:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.44 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 80.633 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 81.944 ms

Loss rate: 0.04%

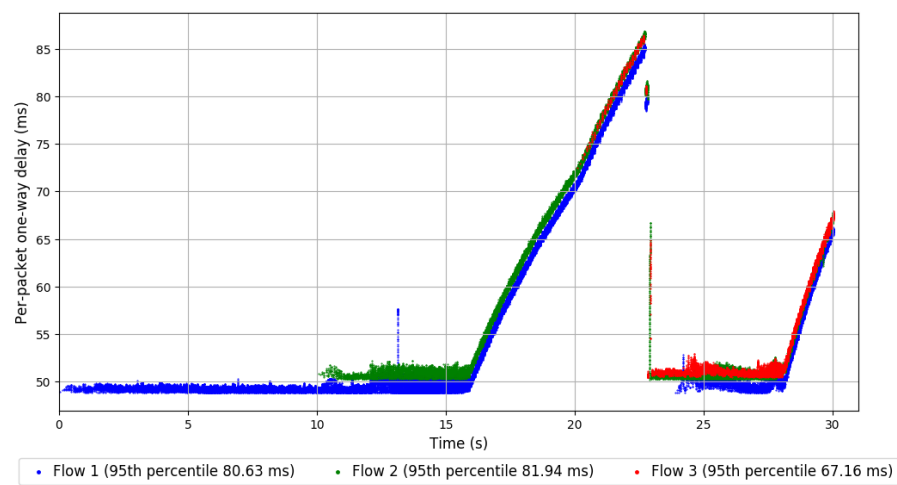
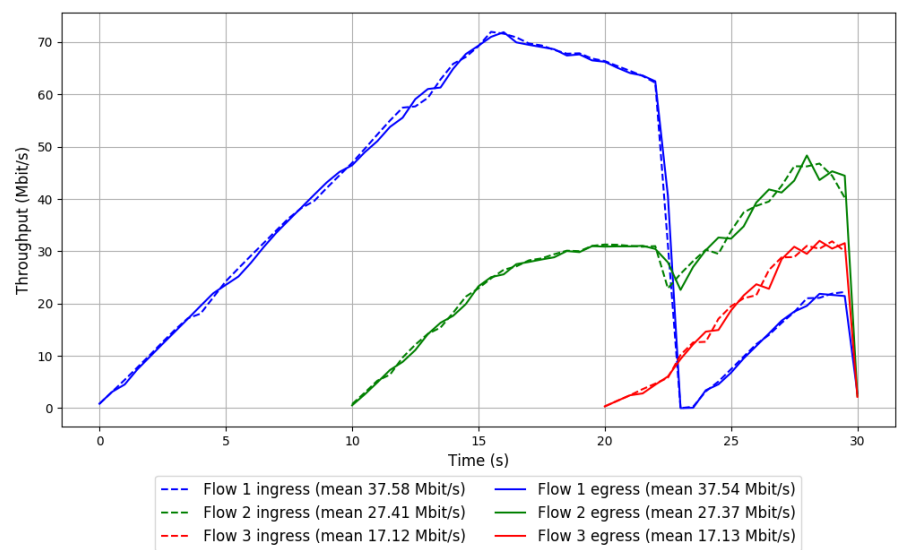
-- Flow 3:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 67.160 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-18 10:09:21

End at: 2017-09-18 10:09:51

Local clock offset: 0.581 ms

Remote clock offset: 1.265 ms

Below is generated by plot.py at 2017-09-18 11:52:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.61 Mbit/s

95th percentile per-packet one-way delay: 78.703 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 77.848 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 78.621 ms

Loss rate: 0.06%

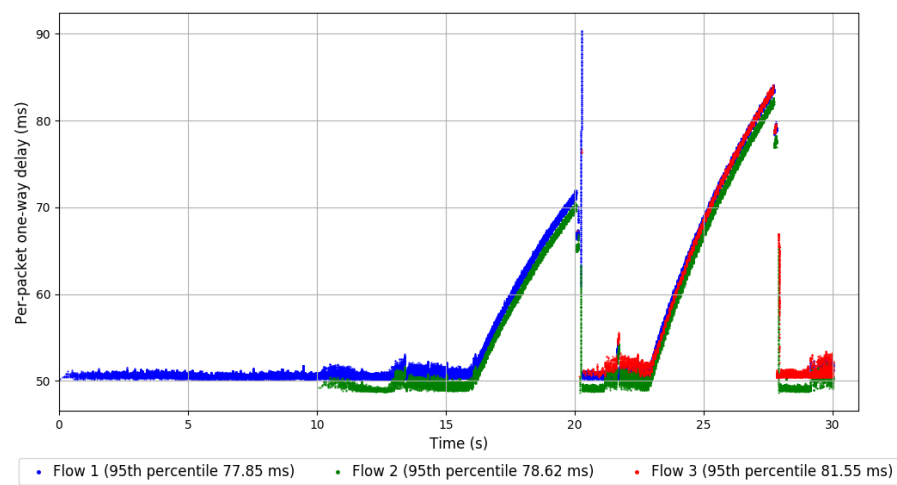
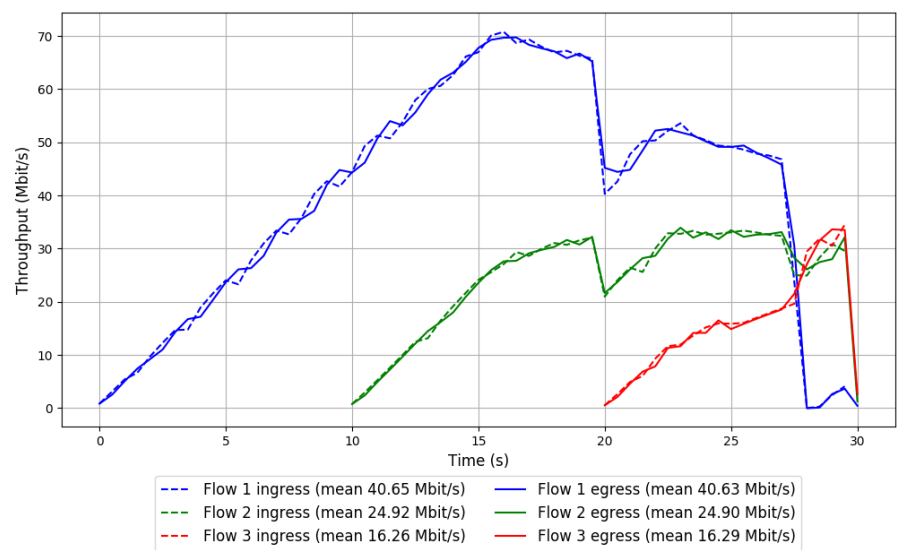
-- Flow 3:

Average throughput: 16.29 Mbit/s

95th percentile per-packet one-way delay: 81.552 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-18 10:23:12

End at: 2017-09-18 10:23:42

Local clock offset: 0.521 ms

Remote clock offset: 1.145 ms

Below is generated by plot.py at 2017-09-18 11:52:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.35 Mbit/s

95th percentile per-packet one-way delay: 83.771 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 36.63 Mbit/s

95th percentile per-packet one-way delay: 84.220 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 34.08 Mbit/s

95th percentile per-packet one-way delay: 83.520 ms

Loss rate: 0.00%

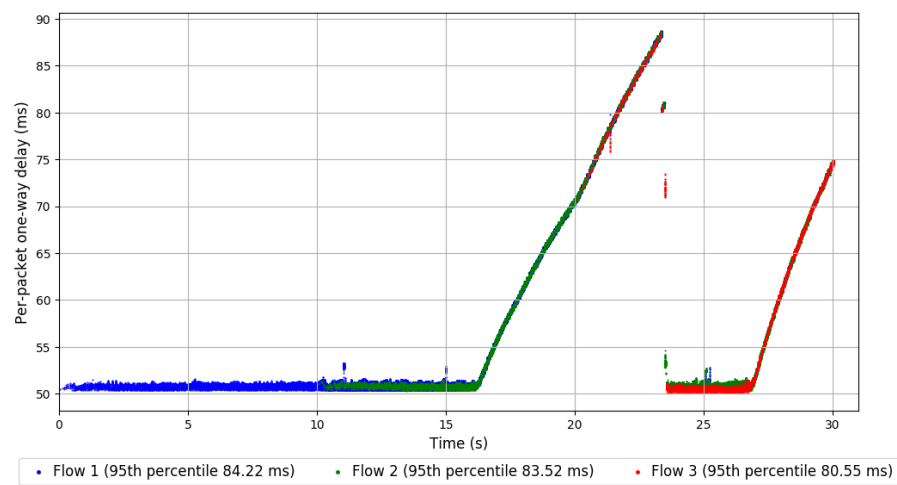
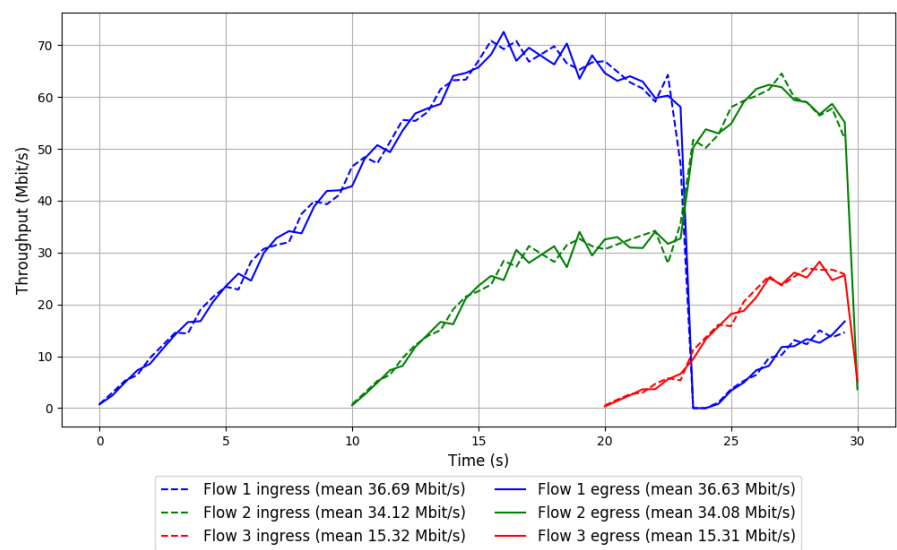
-- Flow 3:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 80.549 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-18 10:37:05

End at: 2017-09-18 10:37:35

Local clock offset: 0.378 ms

Remote clock offset: 1.088 ms

Below is generated by plot.py at 2017-09-18 11:52:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.64 Mbit/s

95th percentile per-packet one-way delay: 83.757 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 37.04 Mbit/s

95th percentile per-packet one-way delay: 83.779 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 84.176 ms

Loss rate: 0.02%

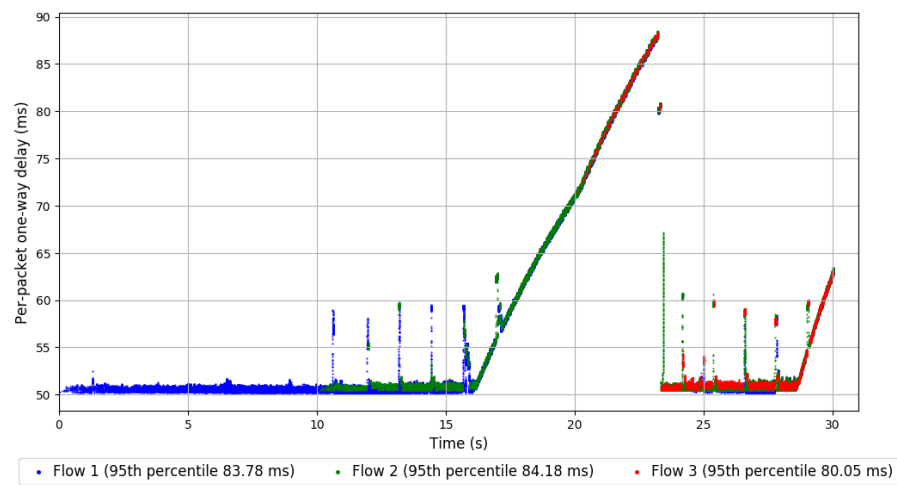
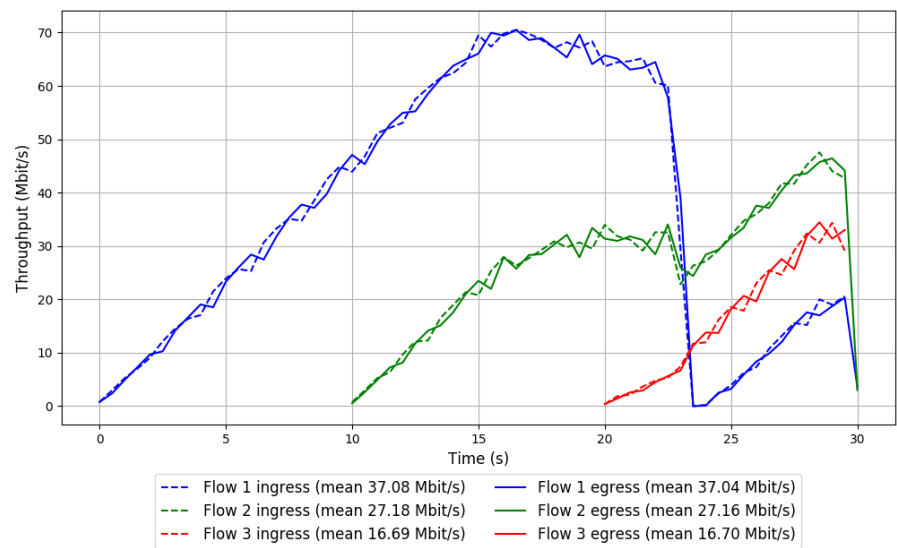
-- Flow 3:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 80.052 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

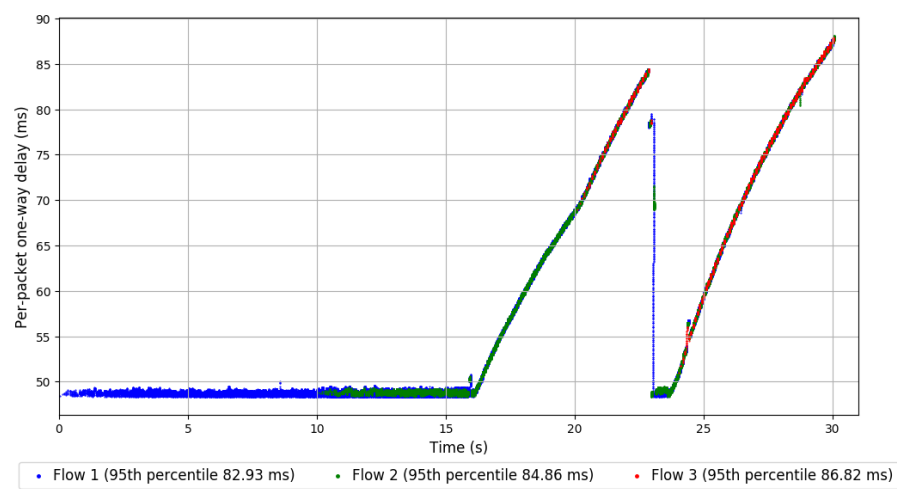
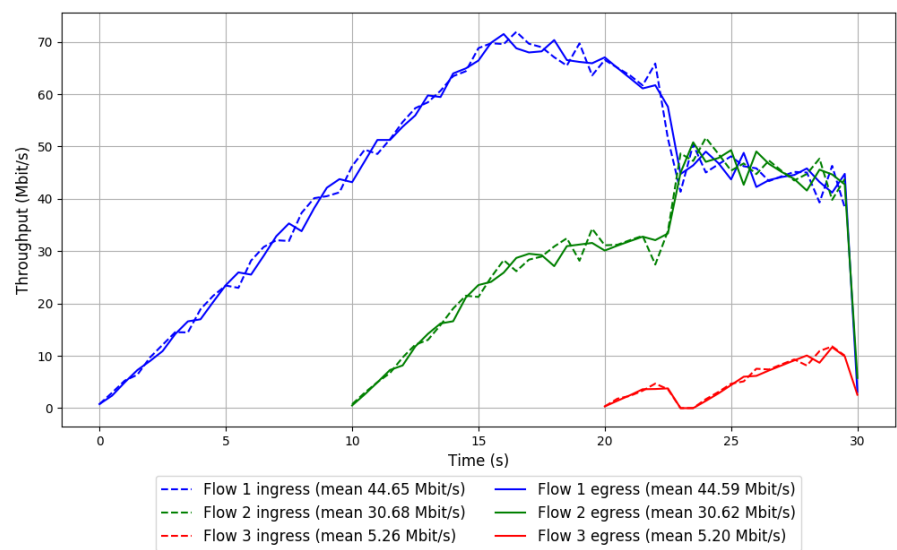


Run 8: Statistics of LEDBAT

Start at: 2017-09-18 10:50:58
End at: 2017-09-18 10:51:28
Local clock offset: 0.415 ms
Remote clock offset: -0.848 ms

Below is generated by plot.py at 2017-09-18 11:52:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.67 Mbit/s
95th percentile per-packet one-way delay: 83.870 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 44.59 Mbit/s
95th percentile per-packet one-way delay: 82.931 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 84.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 86.818 ms
Loss rate: 0.83%

Run 8: Report of LEDBAT — Data Link

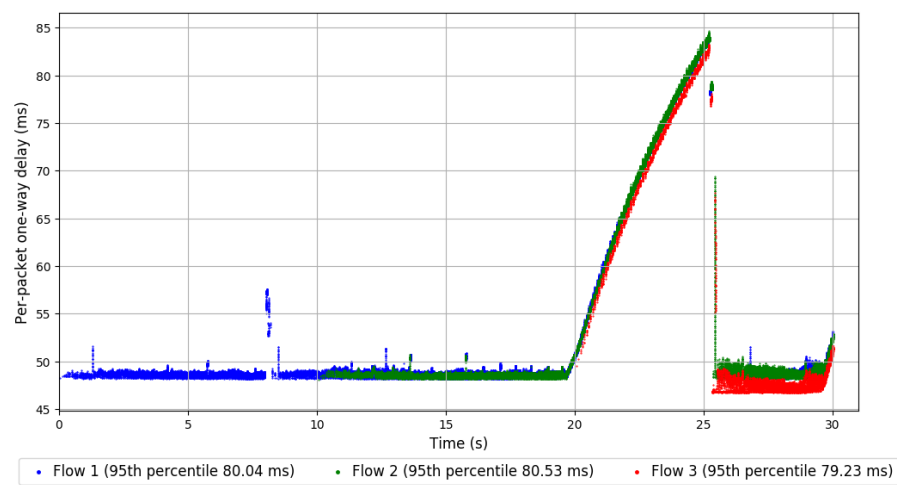
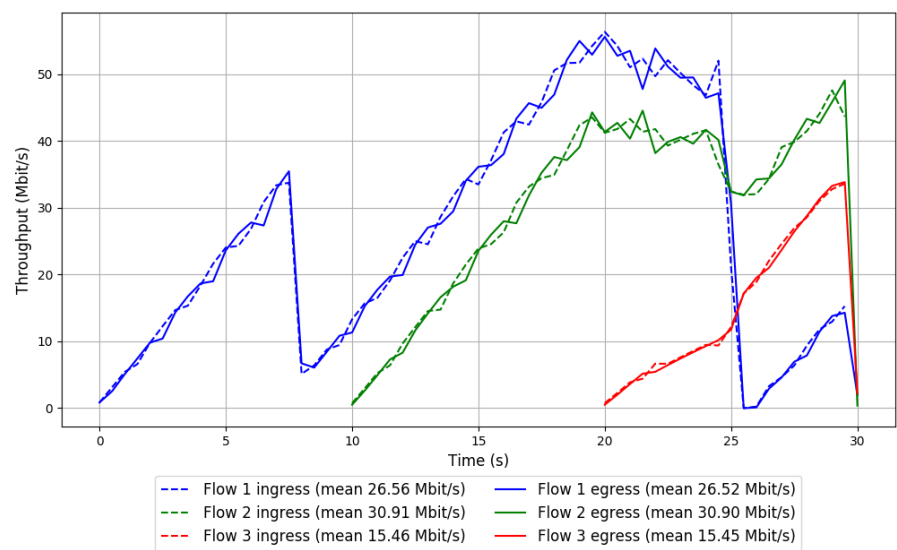


Run 9: Statistics of LEDBAT

Start at: 2017-09-18 11:04:53
End at: 2017-09-18 11:05:23
Local clock offset: 0.304 ms
Remote clock offset: -0.862 ms

Below is generated by plot.py at 2017-09-18 11:52:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 80.090 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 26.52 Mbit/s
95th percentile per-packet one-way delay: 80.038 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 80.532 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 79.227 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-18 11:18:49

End at: 2017-09-18 11:19:19

Local clock offset: 0.378 ms

Remote clock offset: 1.367 ms

Below is generated by plot.py at 2017-09-18 11:52:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.77 Mbit/s

95th percentile per-packet one-way delay: 83.635 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 83.208 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 84.708 ms

Loss rate: 0.10%

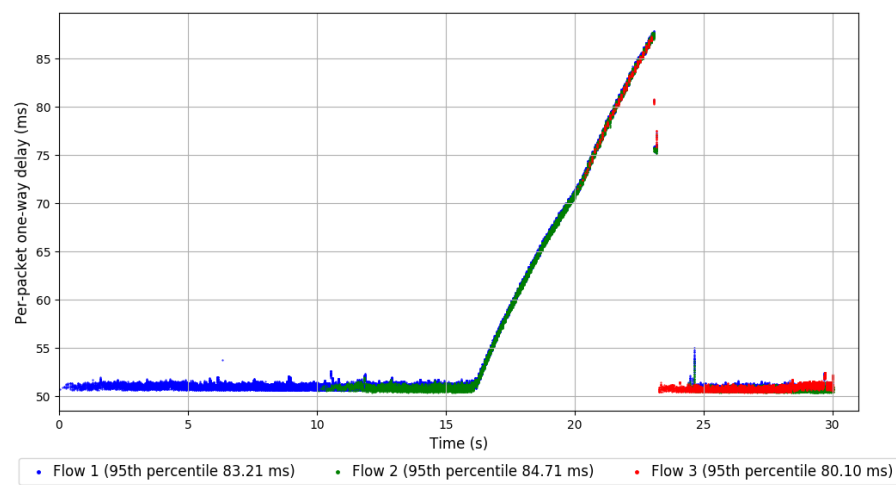
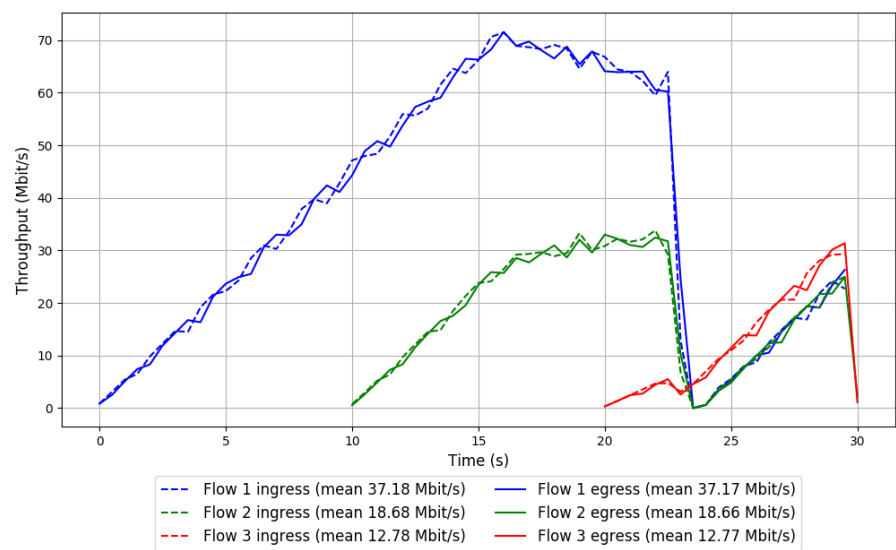
-- Flow 3:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 80.101 ms

Loss rate: 0.32%

Run 10: Report of LEDBAT — Data Link

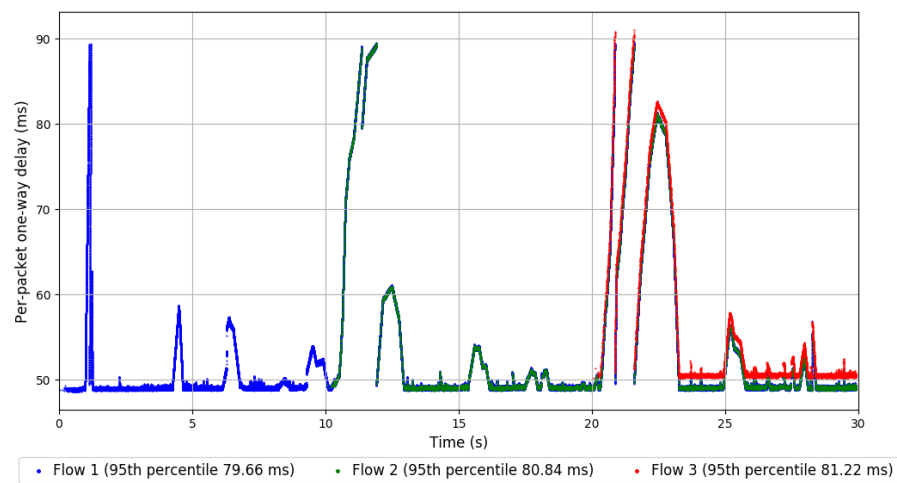
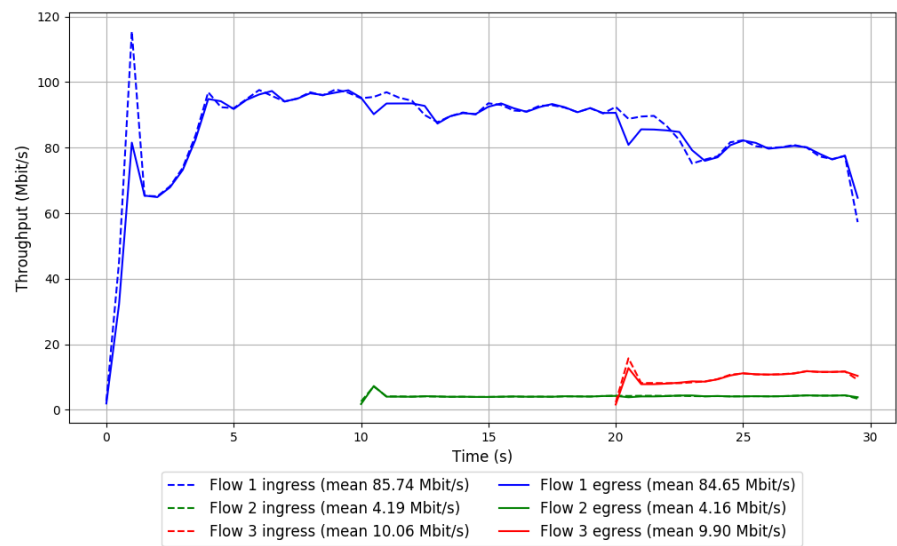


```
Run 1: Statistics of PCC

Start at: 2017-09-18 09:08:01
End at: 2017-09-18 09:08:31
Local clock offset: 0.932 ms
Remote clock offset: 1.723 ms

# Below is generated by plot.py at 2017-09-18 11:53:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 79.829 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 84.65 Mbit/s
95th percentile per-packet one-way delay: 79.662 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 80.837 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 81.221 ms
Loss rate: 1.62%
```


Run 1: Report of PCC — Data Link

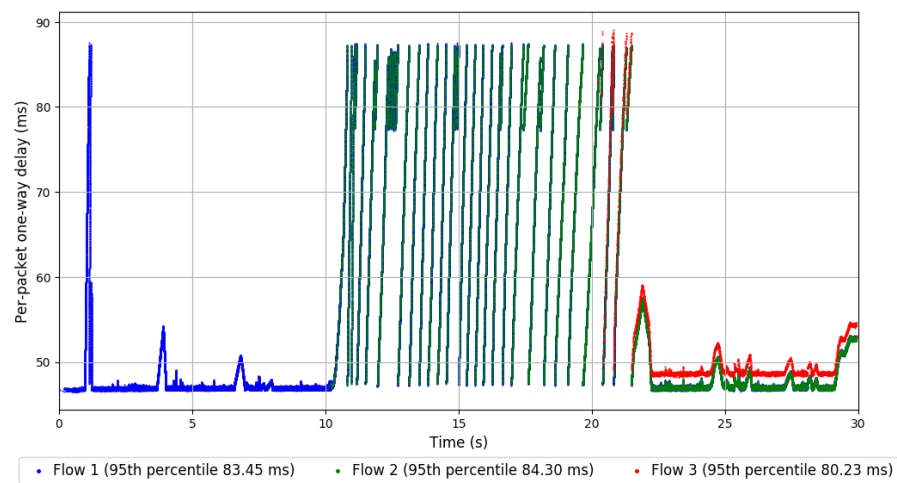
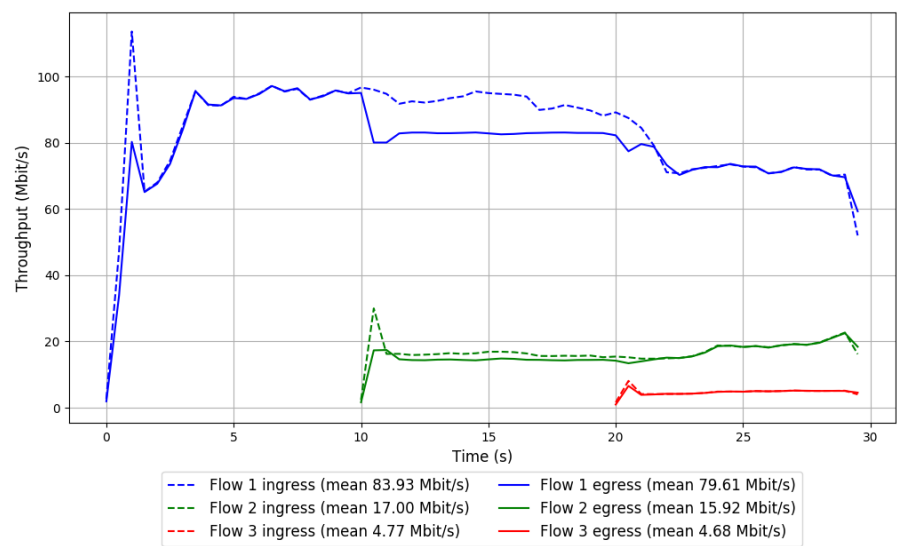


Run 2: Statistics of PCC

Start at: 2017-09-18 09:21:54
End at: 2017-09-18 09:22:24
Local clock offset: 0.853 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2017-09-18 11:53:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 83.562 ms
Loss rate: 5.22%
-- Flow 1:
Average throughput: 79.61 Mbit/s
95th percentile per-packet one-way delay: 83.454 ms
Loss rate: 5.13%
-- Flow 2:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 84.302 ms
Loss rate: 6.30%
-- Flow 3:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 80.226 ms
Loss rate: 2.16%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-18 09:35:55

End at: 2017-09-18 09:36:25

Local clock offset: 0.784 ms

Remote clock offset: 2.06 ms

Below is generated by plot.py at 2017-09-18 11:54:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 76.554 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 81.80 Mbit/s

95th percentile per-packet one-way delay: 76.354 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 9.22 Mbit/s

95th percentile per-packet one-way delay: 81.331 ms

Loss rate: 1.70%

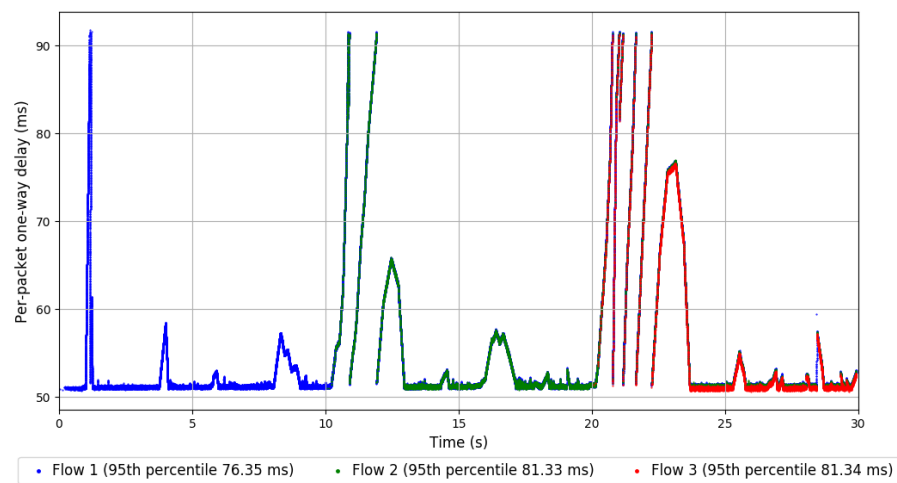
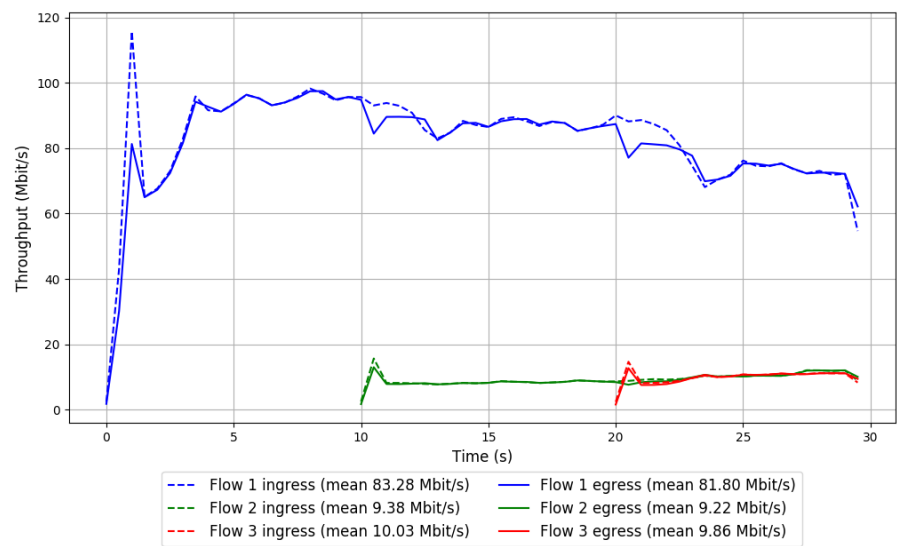
-- Flow 3:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 81.343 ms

Loss rate: 1.72%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-18 09:49:51

End at: 2017-09-18 09:50:21

Local clock offset: 0.59 ms

Remote clock offset: 1.381 ms

Below is generated by plot.py at 2017-09-18 11:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.48 Mbit/s

95th percentile per-packet one-way delay: 66.780 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 66.380 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 69.086 ms

Loss rate: 0.75%

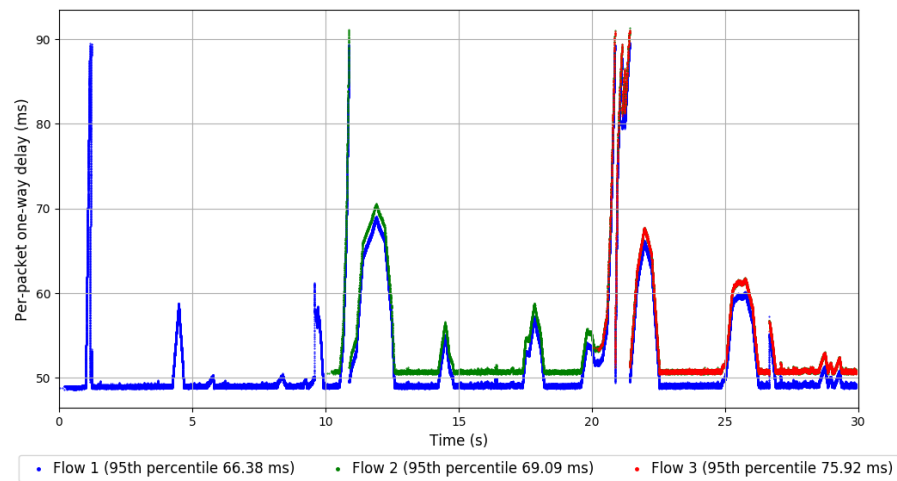
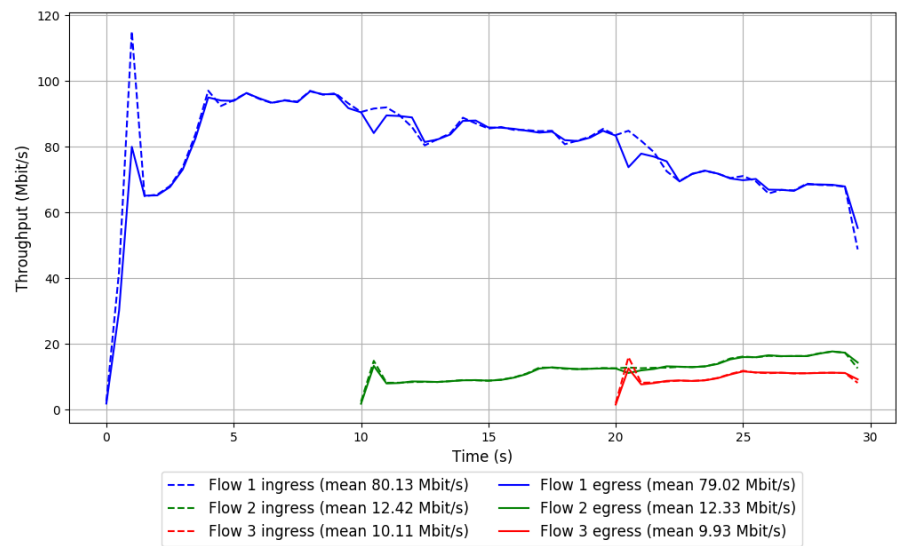
-- Flow 3:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 75.920 ms

Loss rate: 1.76%

Run 4: Report of PCC — Data Link

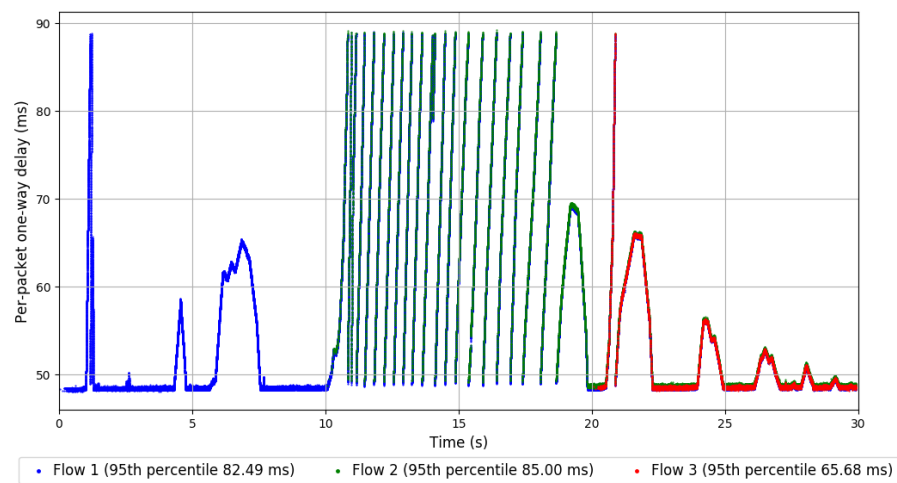
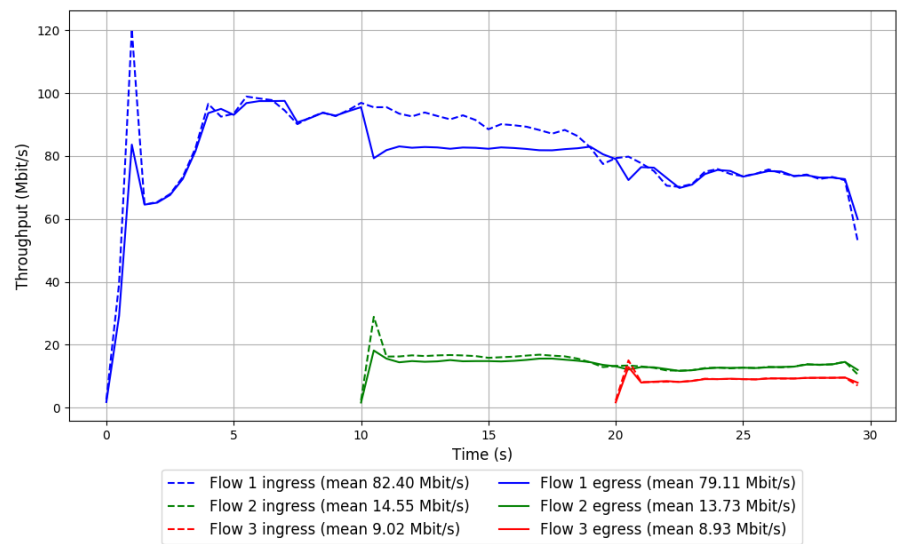


Run 5: Statistics of PCC

Start at: 2017-09-18 10:03:48
End at: 2017-09-18 10:04:18
Local clock offset: 0.497 ms
Remote clock offset: -0.745 ms

Below is generated by plot.py at 2017-09-18 11:54:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 82.704 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 79.11 Mbit/s
95th percentile per-packet one-way delay: 82.486 ms
Loss rate: 4.00%
-- Flow 2:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 84.998 ms
Loss rate: 5.65%
-- Flow 3:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 65.683 ms
Loss rate: 1.05%

Run 5: Report of PCC — Data Link

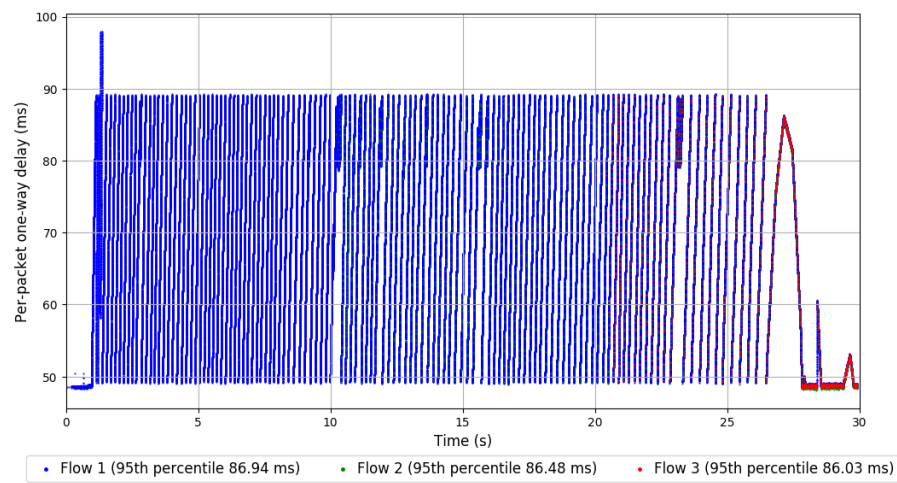
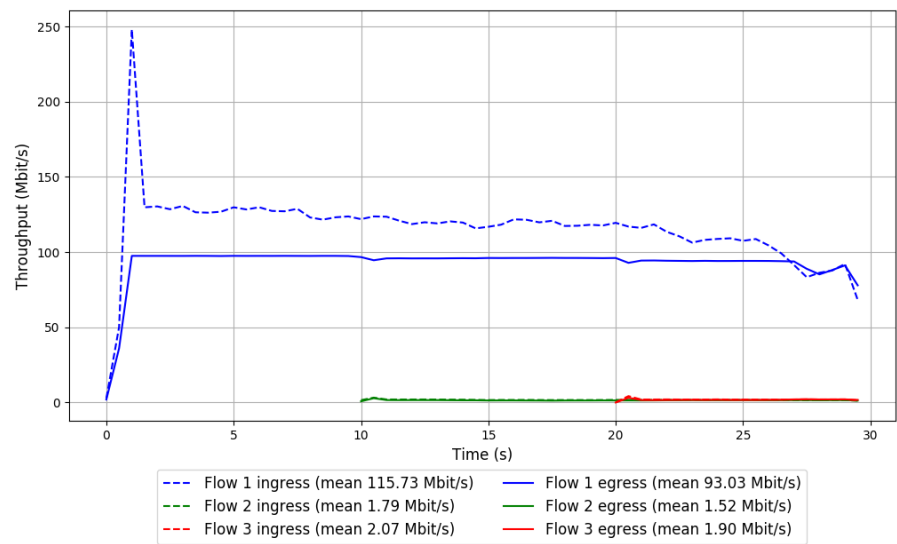


Run 6: Statistics of PCC

Start at: 2017-09-18 10:17:40
End at: 2017-09-18 10:18:10
Local clock offset: 0.438 ms
Remote clock offset: -0.814 ms

Below is generated by plot.py at 2017-09-18 11:54:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 86.930 ms
Loss rate: 19.52%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 86.942 ms
Loss rate: 19.62%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 86.482 ms
Loss rate: 15.22%
-- Flow 3:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 86.025 ms
Loss rate: 10.22%

Run 6: Report of PCC — Data Link

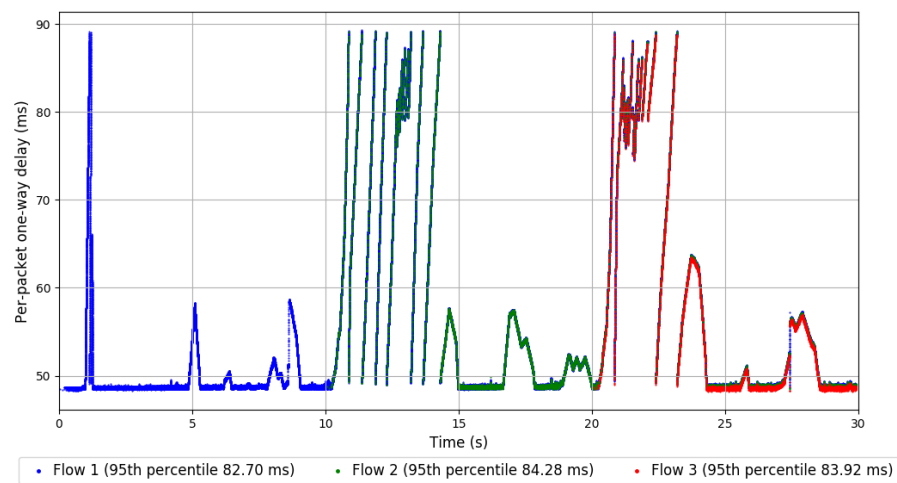
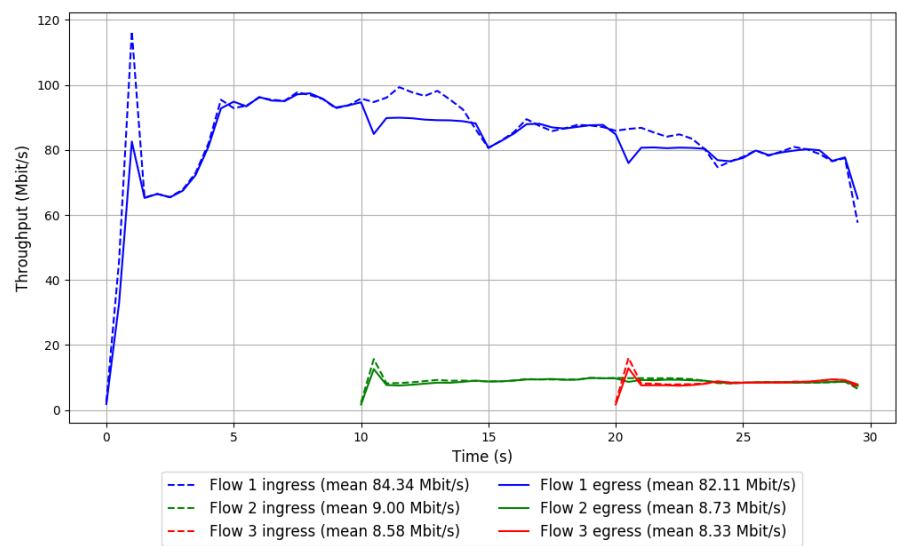


Run 7: Statistics of PCC

Start at: 2017-09-18 10:31:31
End at: 2017-09-18 10:32:01
Local clock offset: 0.403 ms
Remote clock offset: -0.816 ms

Below is generated by plot.py at 2017-09-18 11:54:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 82.906 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 82.11 Mbit/s
95th percentile per-packet one-way delay: 82.700 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 84.282 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 83.922 ms
Loss rate: 2.88%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-18 10:45:25

End at: 2017-09-18 10:45:55

Local clock offset: 0.357 ms

Remote clock offset: -0.82 ms

Below is generated by plot.py at 2017-09-18 11:54:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 85.534 ms

Loss rate: 9.00%

-- Flow 1:

Average throughput: 81.21 Mbit/s

95th percentile per-packet one-way delay: 85.351 ms

Loss rate: 8.71%

-- Flow 2:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 86.436 ms

Loss rate: 11.49%

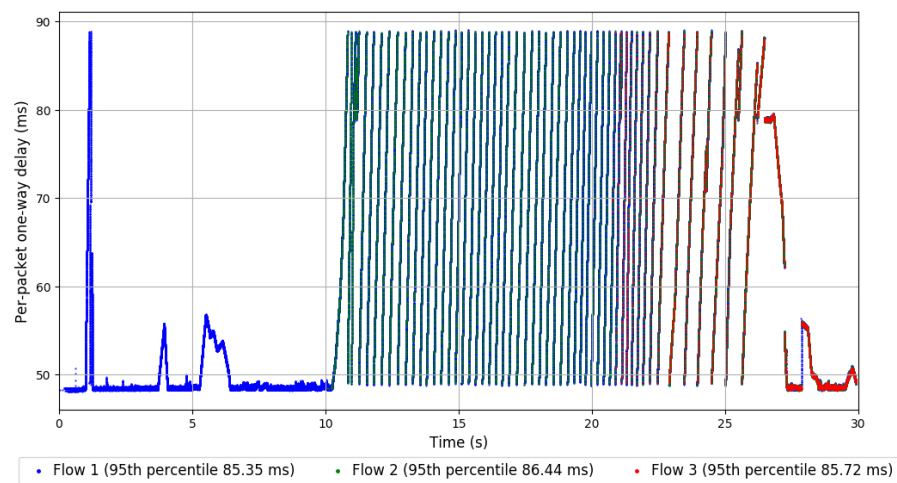
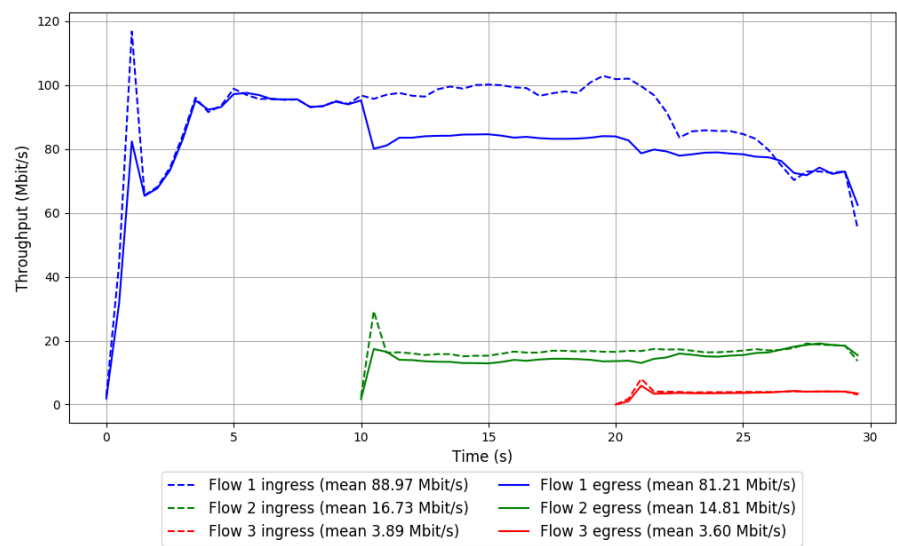
-- Flow 3:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 85.723 ms

Loss rate: 7.74%

Run 8: Report of PCC — Data Link

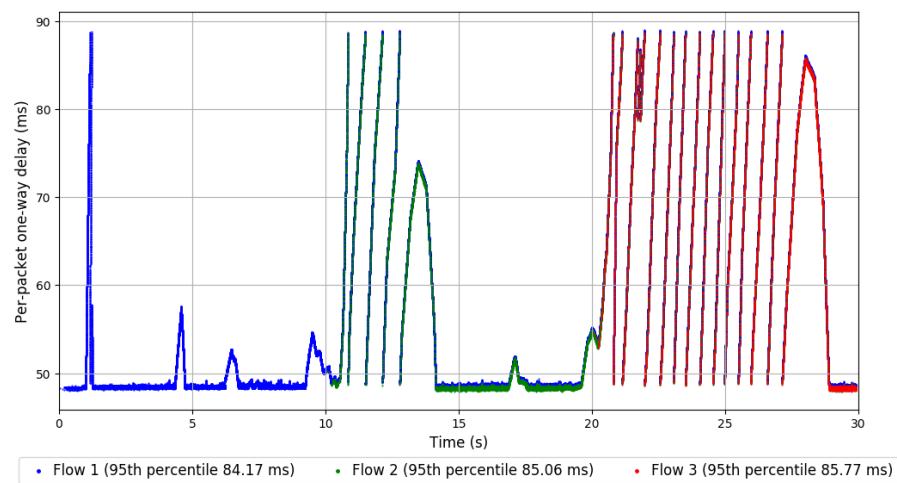
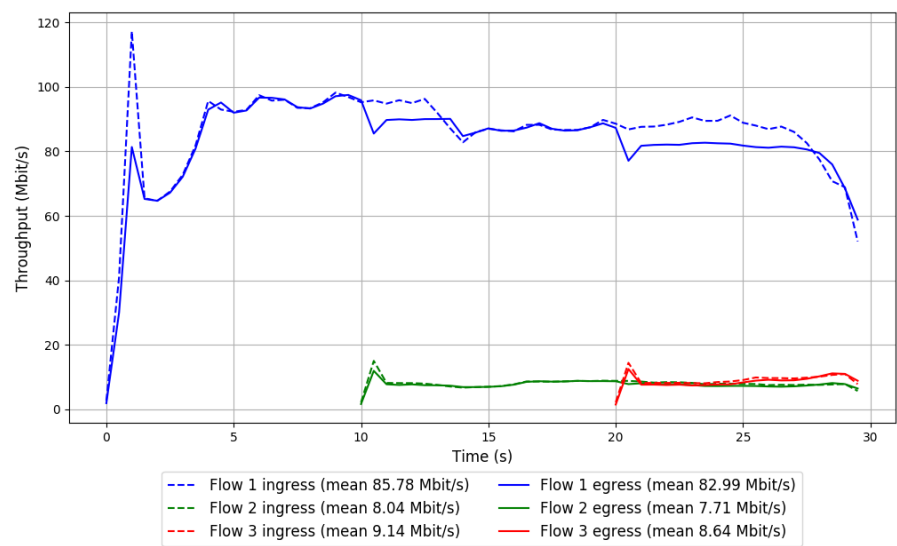


Run 9: Statistics of PCC

Start at: 2017-09-18 10:59:19
End at: 2017-09-18 10:59:49
Local clock offset: 0.385 ms
Remote clock offset: -0.922 ms

Below is generated by plot.py at 2017-09-18 11:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 84.372 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 82.99 Mbit/s
95th percentile per-packet one-way delay: 84.173 ms
Loss rate: 3.26%
-- Flow 2:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 85.059 ms
Loss rate: 4.12%
-- Flow 3:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 85.774 ms
Loss rate: 5.53%

Run 9: Report of PCC — Data Link

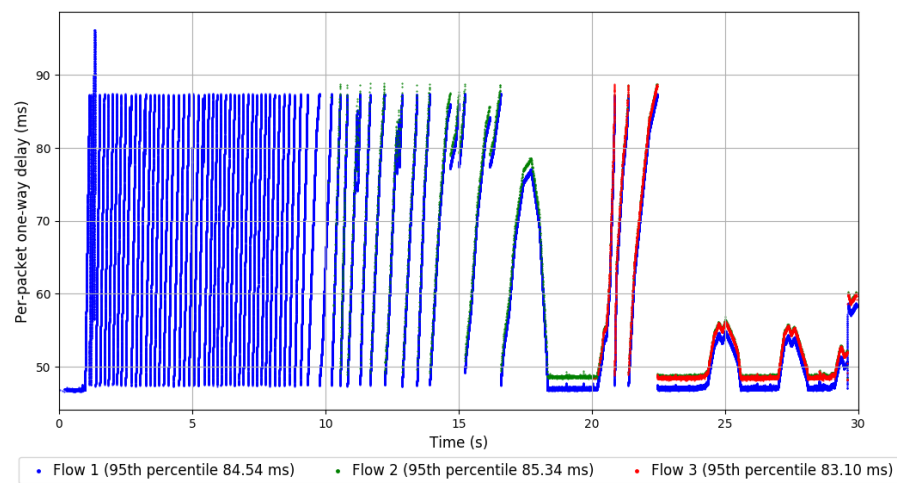
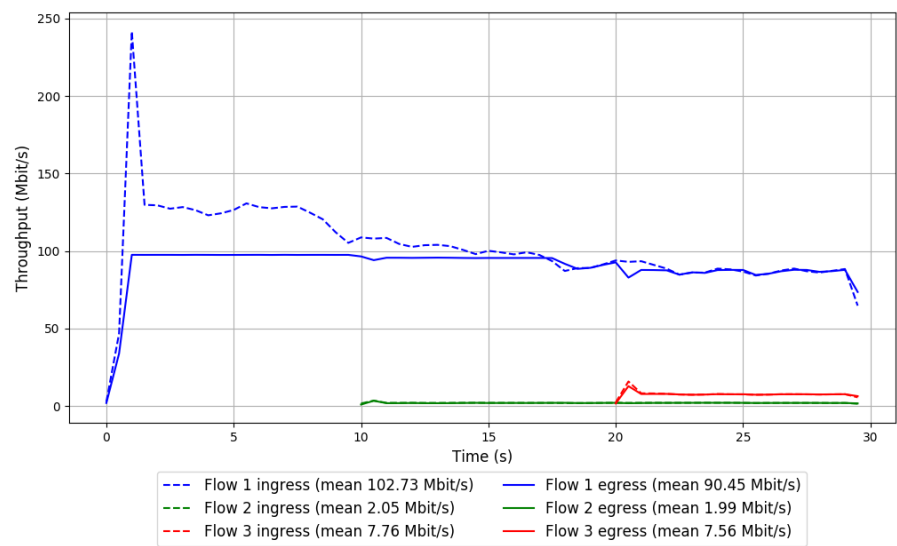


Run 10: Statistics of PCC

Start at: 2017-09-18 11:13:14
End at: 2017-09-18 11:13:44
Local clock offset: 0.333 ms
Remote clock offset: -0.879 ms

Below is generated by plot.py at 2017-09-18 11:55:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 84.534 ms
Loss rate: 11.58%
-- Flow 1:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 84.537 ms
Loss rate: 11.92%
-- Flow 2:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 85.338 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 83.103 ms
Loss rate: 2.49%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 09:09:23

End at: 2017-09-18 09:09:53

Local clock offset: 0.919 ms

Remote clock offset: 1.637 ms

Below is generated by plot.py at 2017-09-18 11:55:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.01 Mbit/s

95th percentile per-packet one-way delay: 84.901 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 64.23 Mbit/s

95th percentile per-packet one-way delay: 84.995 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 27.44 Mbit/s

95th percentile per-packet one-way delay: 83.624 ms

Loss rate: 0.38%

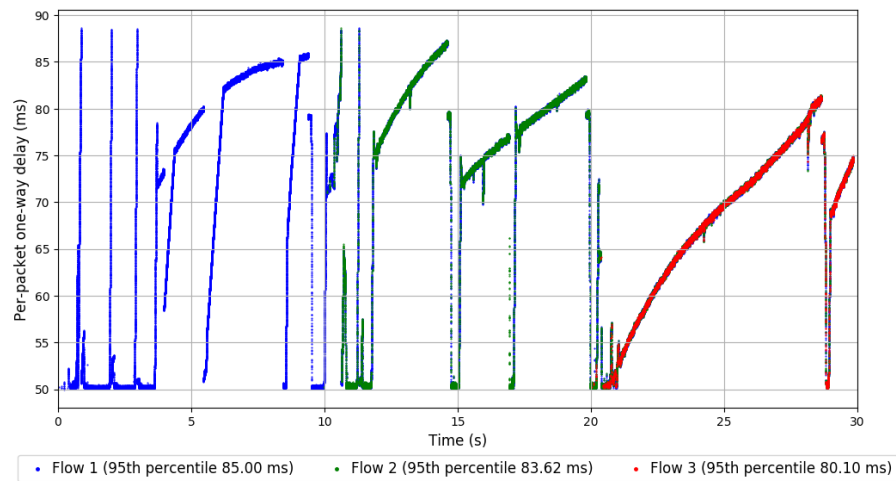
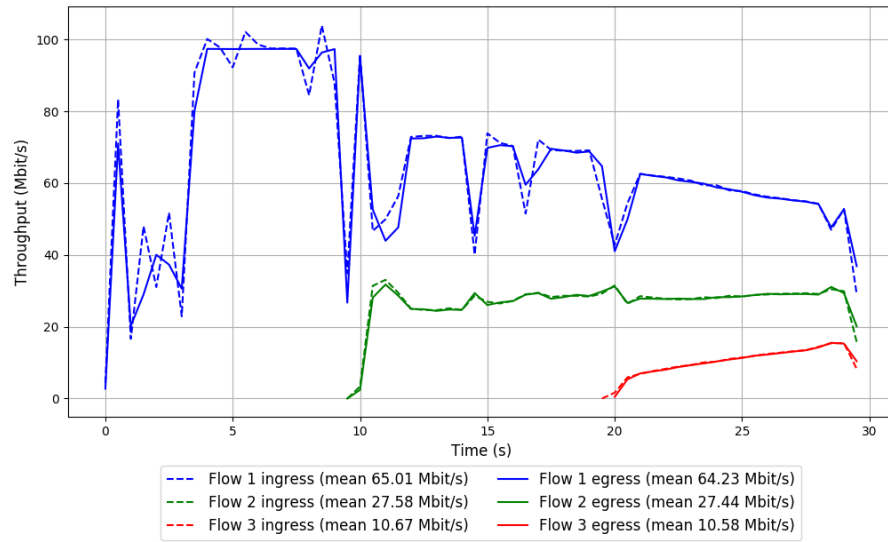
-- Flow 3:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 80.098 ms

Loss rate: 0.54%

Run 1: Report of QUIC Cubic — Data Link

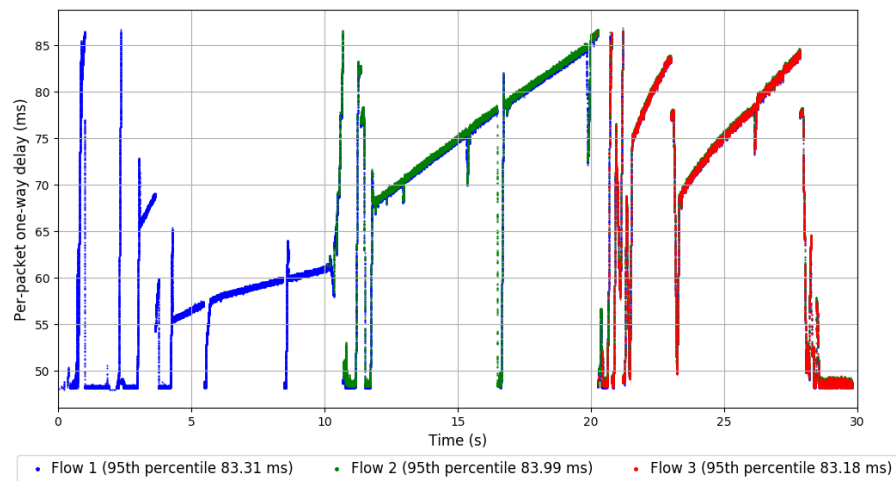
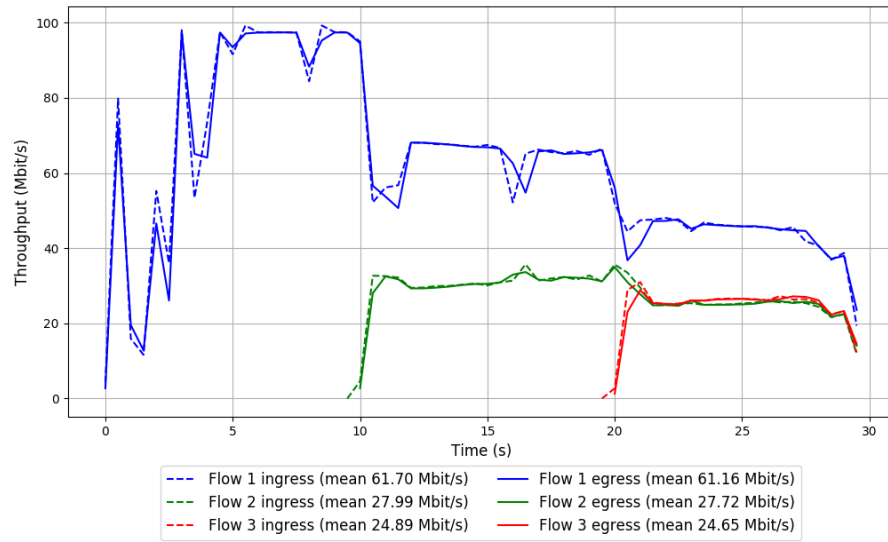


Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 09:23:15
End at: 2017-09-18 09:23:45
Local clock offset: 0.861 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2017-09-18 11:55:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 83.461 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 61.16 Mbit/s
95th percentile per-packet one-way delay: 83.306 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 83.987 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 83.176 ms
Loss rate: 1.34%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 09:37:17

End at: 2017-09-18 09:37:47

Local clock offset: 0.677 ms

Remote clock offset: 1.568 ms

Below is generated by plot.py at 2017-09-18 11:55:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 85.973 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 85.784 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 86.153 ms

Loss rate: 0.89%

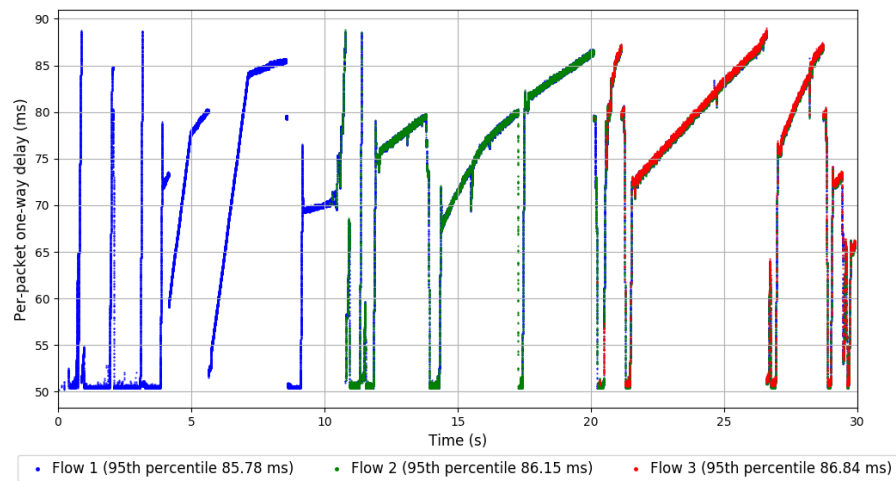
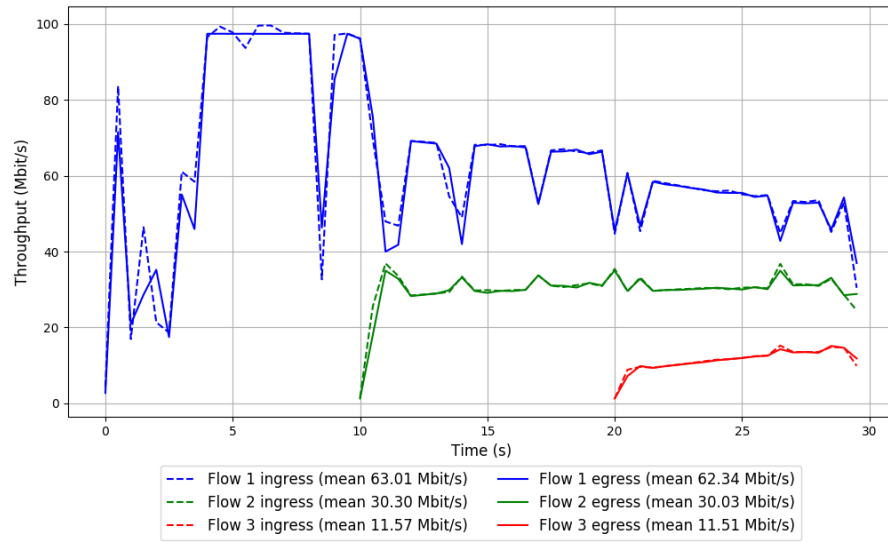
-- Flow 3:

Average throughput: 11.51 Mbit/s

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

Loss rate: 0.60%

Run 3: Report of QUIC Cubic — Data Link

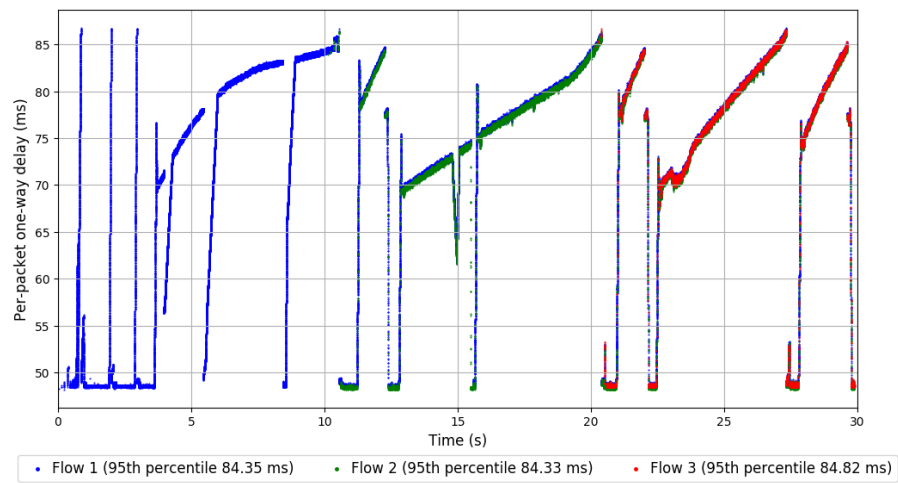
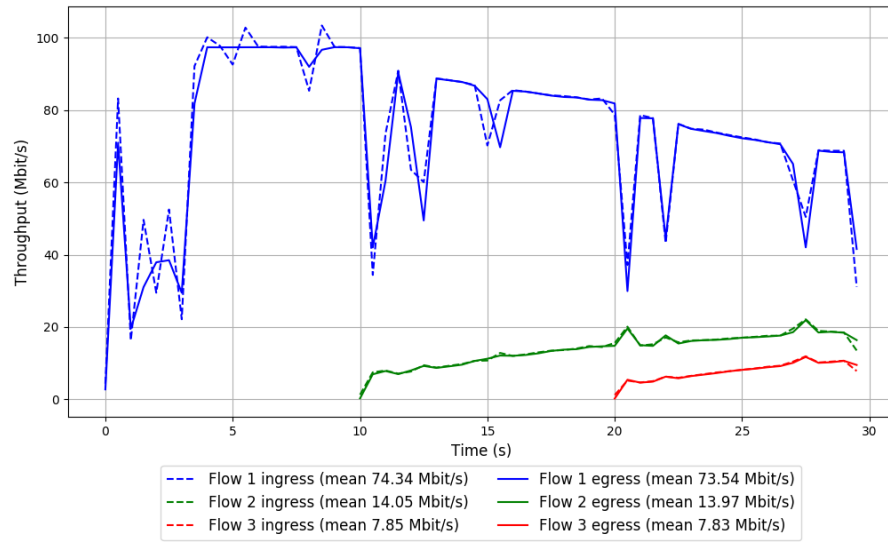


Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 09:51:13
End at: 2017-09-18 09:51:43
Local clock offset: 0.581 ms
Remote clock offset: -0.678 ms

Below is generated by plot.py at 2017-09-18 11:55:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 84.363 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 84.354 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 84.333 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 84.818 ms
Loss rate: 0.60%

Run 4: Report of QUIC Cubic — Data Link

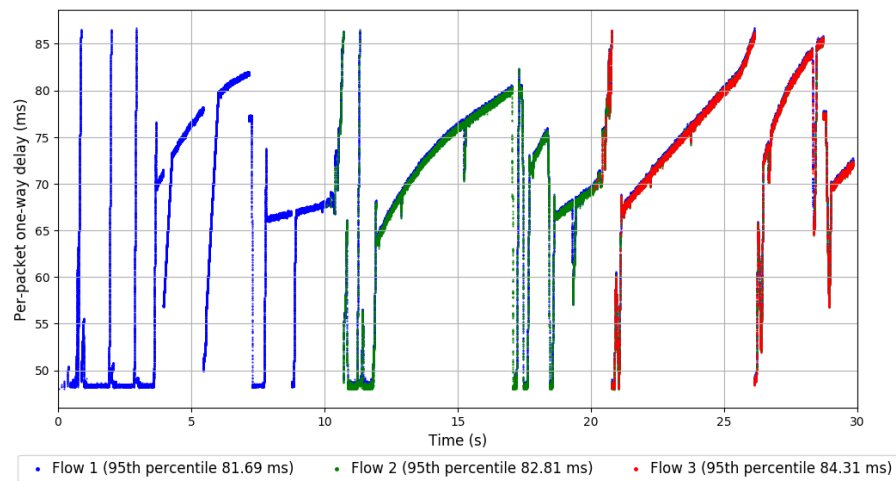
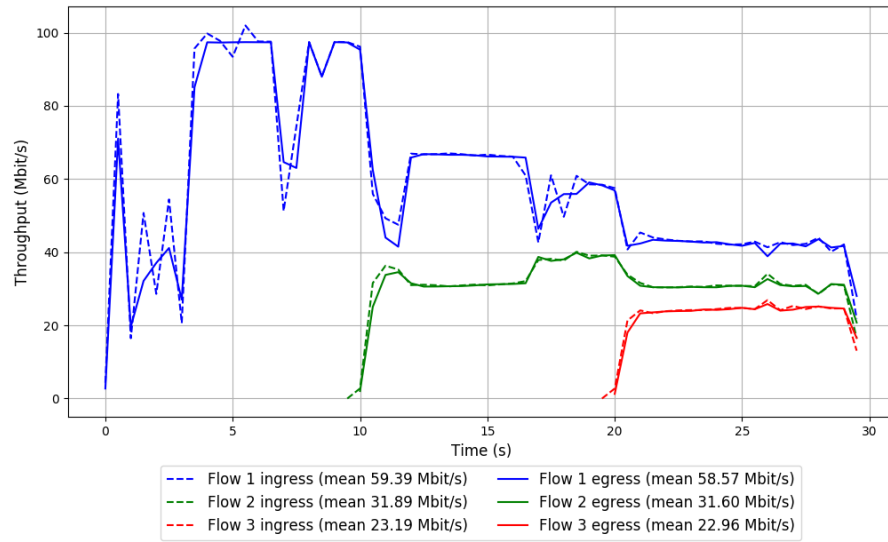


Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 10:05:10
End at: 2017-09-18 10:05:40
Local clock offset: 0.606 ms
Remote clock offset: -0.864 ms

Below is generated by plot.py at 2017-09-18 11:55:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 82.335 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 58.57 Mbit/s
95th percentile per-packet one-way delay: 81.690 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 82.807 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 84.305 ms
Loss rate: 0.95%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

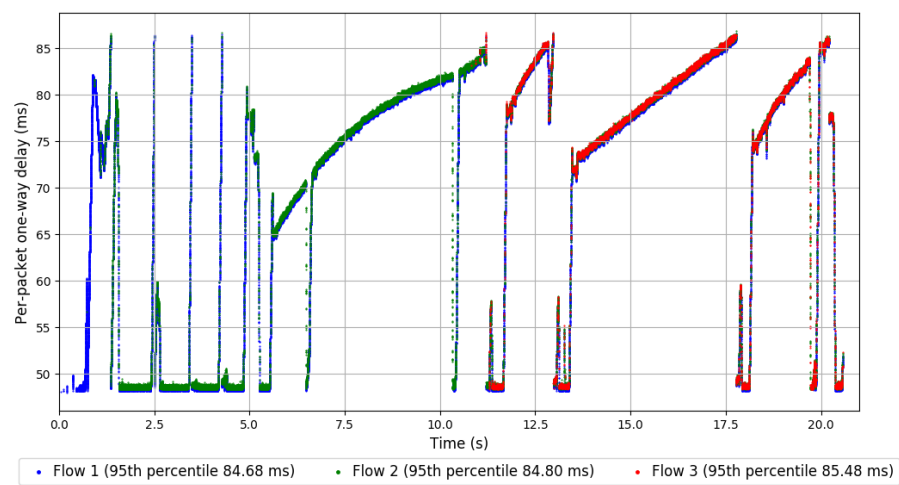
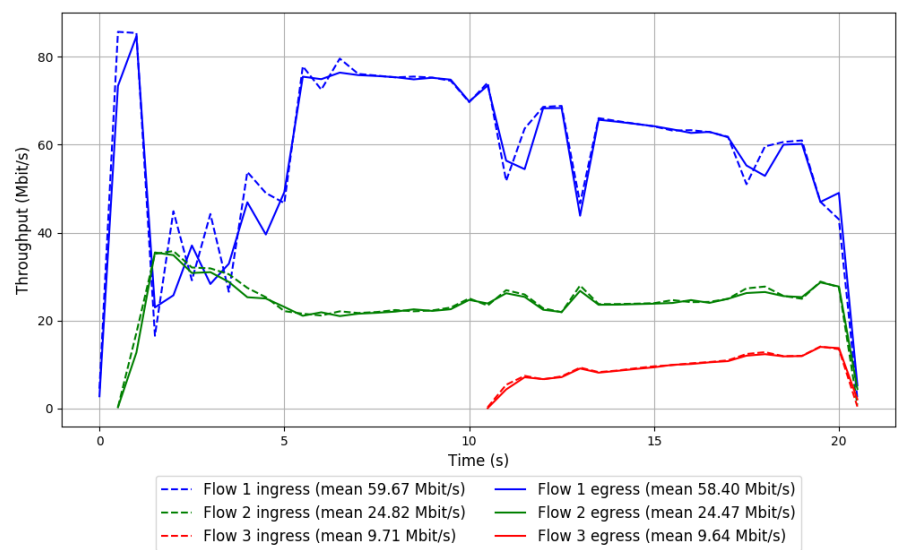
Start at: 2017-09-18 10:19:02

End at: 2017-09-18 10:19:32

Local clock offset: 0.521 ms

Remote clock offset: -0.882 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 10:32:54

End at: 2017-09-18 10:33:24

Local clock offset: 0.393 ms

Remote clock offset: 1.703 ms

Below is generated by plot.py at 2017-09-18 11:56:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.59 Mbit/s

95th percentile per-packet one-way delay: 86.975 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 86.915 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 14.37 Mbit/s

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

Loss rate: 0.68%

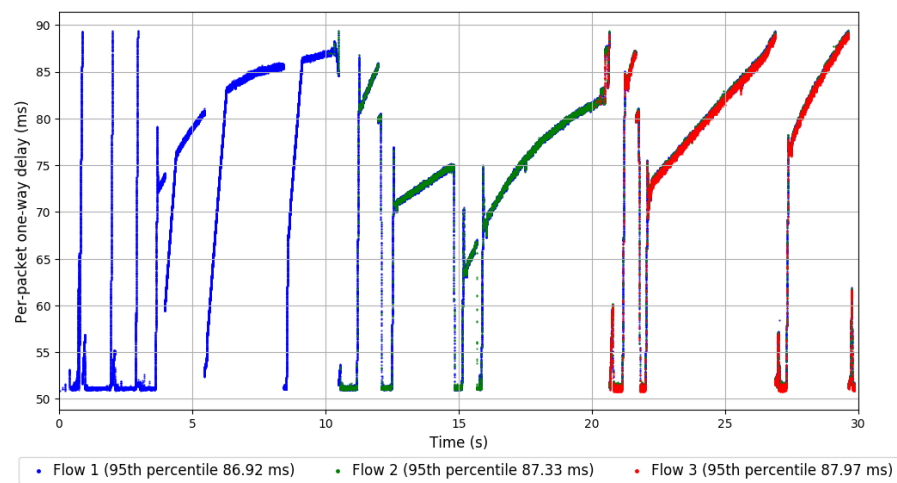
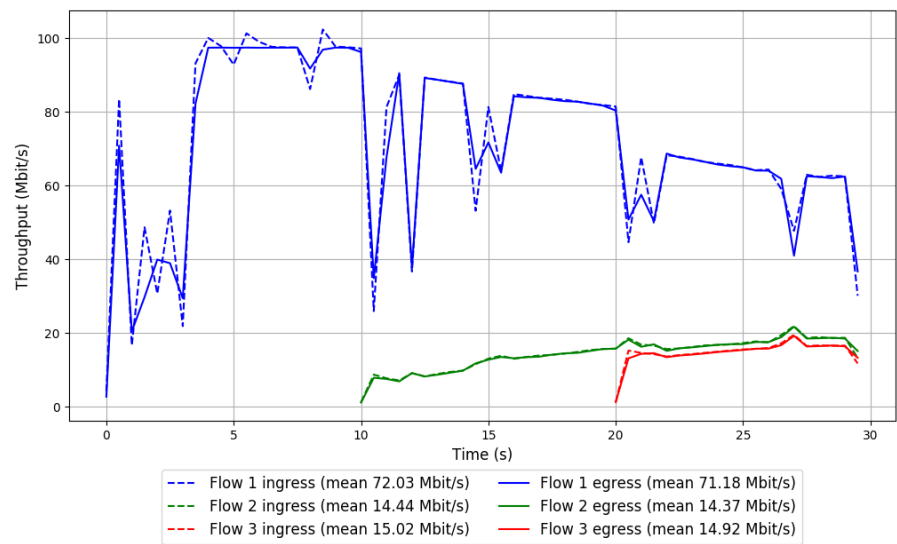
-- Flow 3:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 87.975 ms

Loss rate: 0.95%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 10:46:48

End at: 2017-09-18 10:47:18

Local clock offset: 0.427 ms

Remote clock offset: 1.675 ms

Below is generated by plot.py at 2017-09-18 11:56:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.12 Mbit/s

95th percentile per-packet one-way delay: 85.250 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 50.75 Mbit/s

95th percentile per-packet one-way delay: 85.222 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 84.189 ms

Loss rate: 3.24%

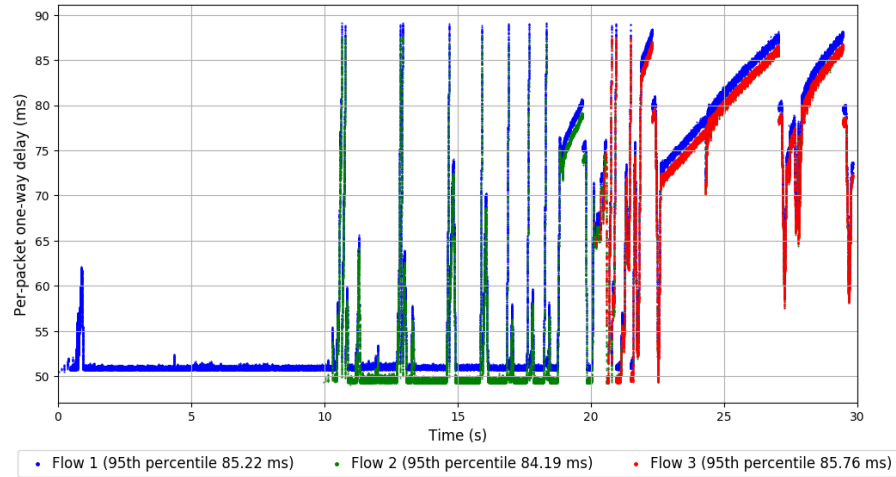
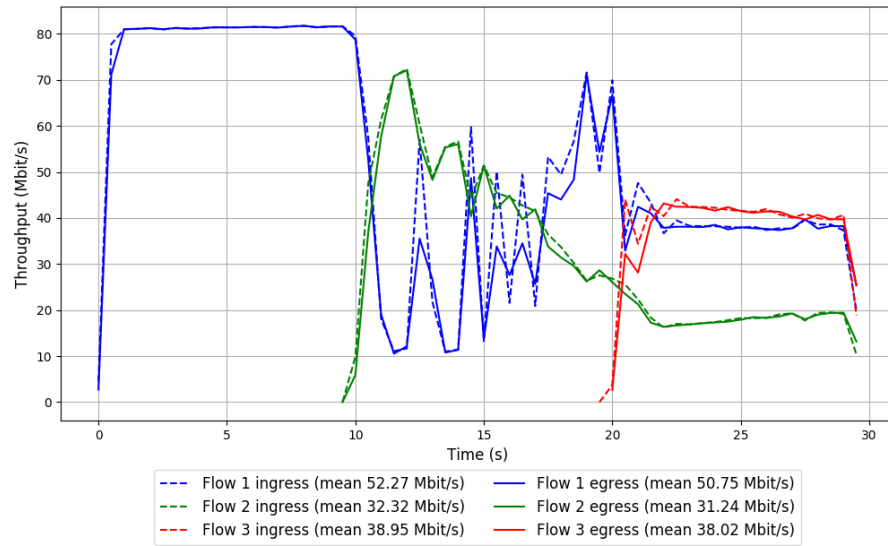
-- Flow 3:

Average throughput: 38.02 Mbit/s

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

Loss rate: 2.16%

Run 8: Report of QUIC Cubic — Data Link

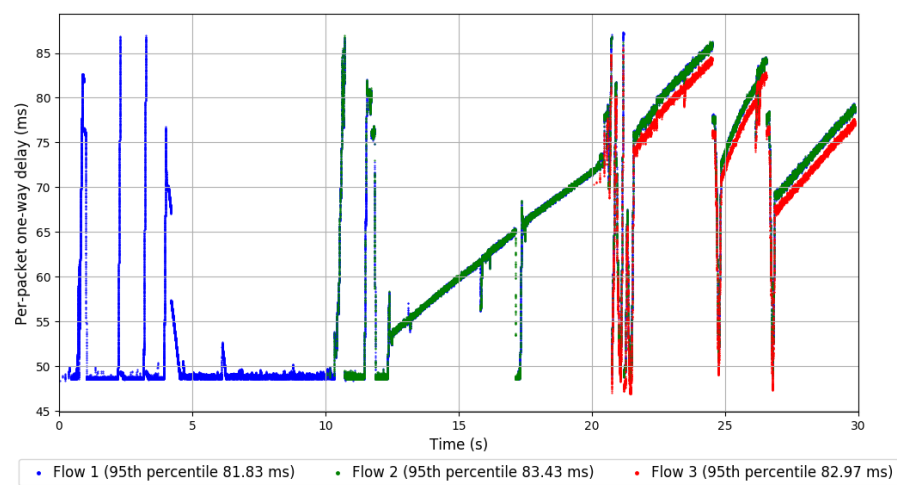
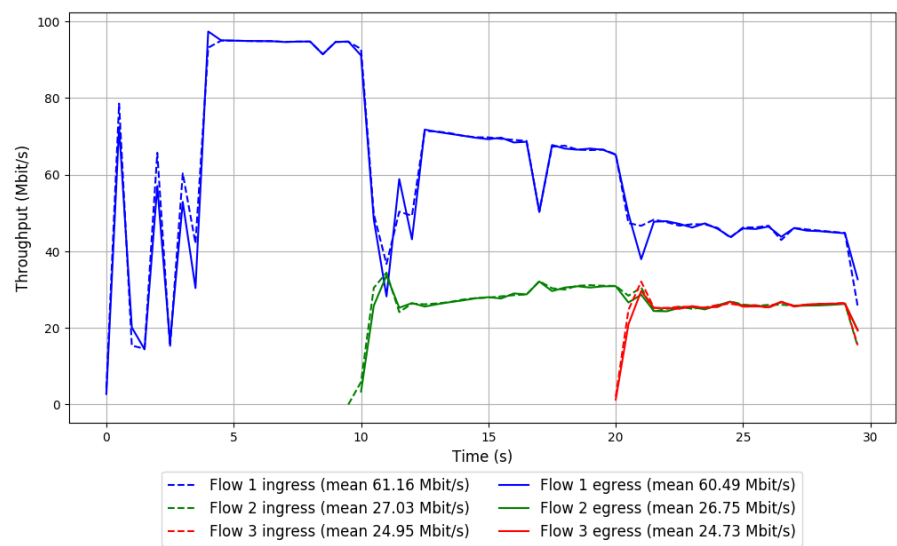


Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 11:00:41
End at: 2017-09-18 11:01:11
Local clock offset: 0.286 ms
Remote clock offset: -0.706 ms

Below is generated by plot.py at 2017-09-18 11:56:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.43 Mbit/s
95th percentile per-packet one-way delay: 82.437 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 60.49 Mbit/s
95th percentile per-packet one-way delay: 81.825 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 26.75 Mbit/s
95th percentile per-packet one-way delay: 83.429 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 82.972 ms
Loss rate: 0.84%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 11:14:36

End at: 2017-09-18 11:15:06

Local clock offset: 0.455 ms

Remote clock offset: 1.298 ms

Below is generated by plot.py at 2017-09-18 11:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 84.442 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 84.453 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 84.521 ms

Loss rate: 1.30%

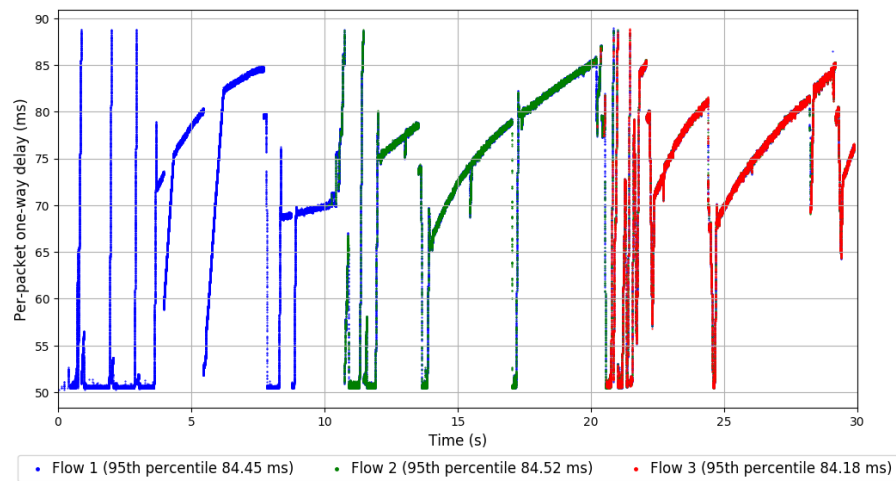
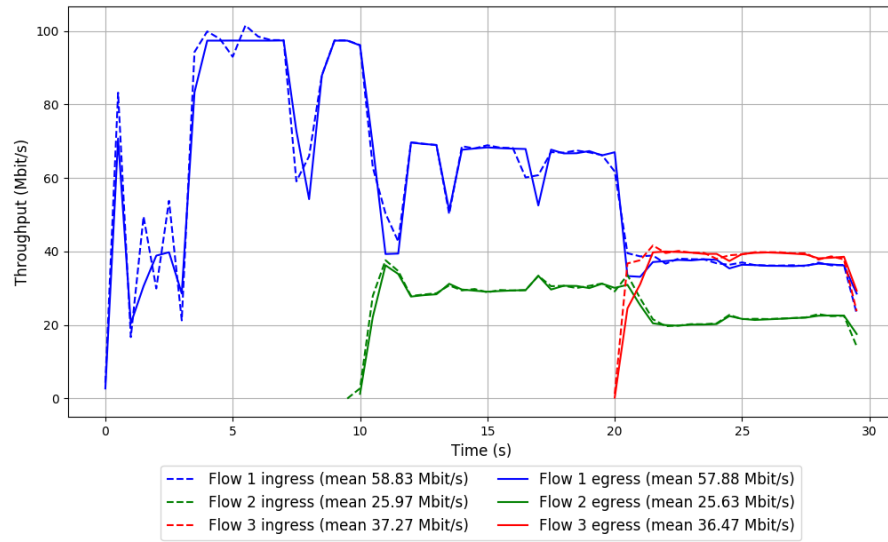
-- Flow 3:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 84.181 ms

Loss rate: 2.26%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-18 09:16:22

End at: 2017-09-18 09:16:52

Local clock offset: 0.877 ms

Remote clock offset: -0.41 ms

Below is generated by plot.py at 2017-09-18 11:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 52.972 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 52.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 52.816 ms

Loss rate: 0.00%

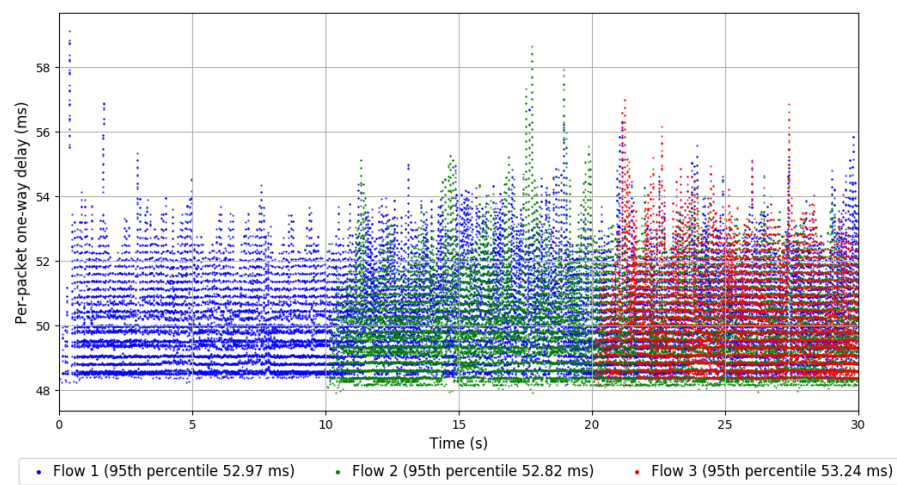
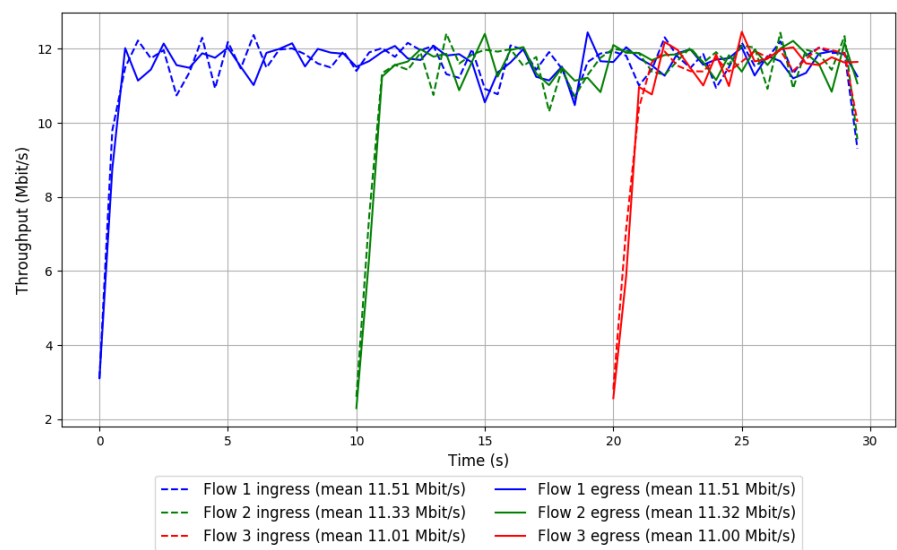
-- Flow 3:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 53.240 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

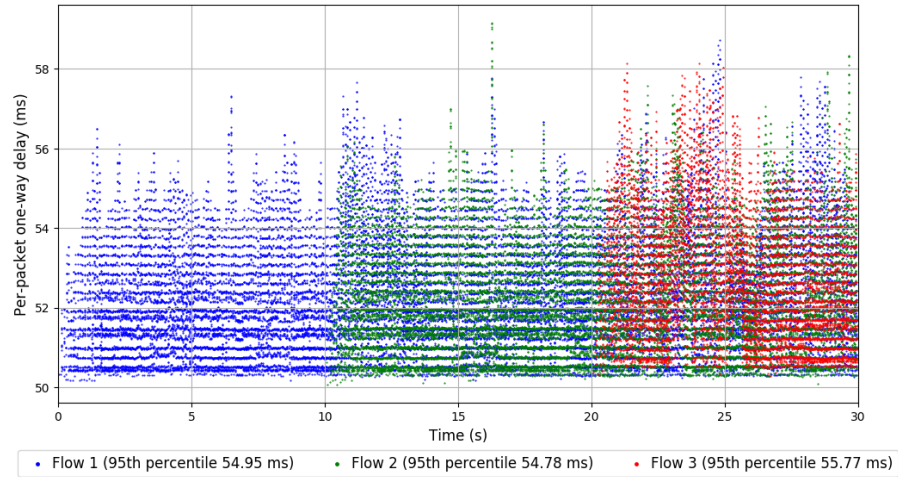
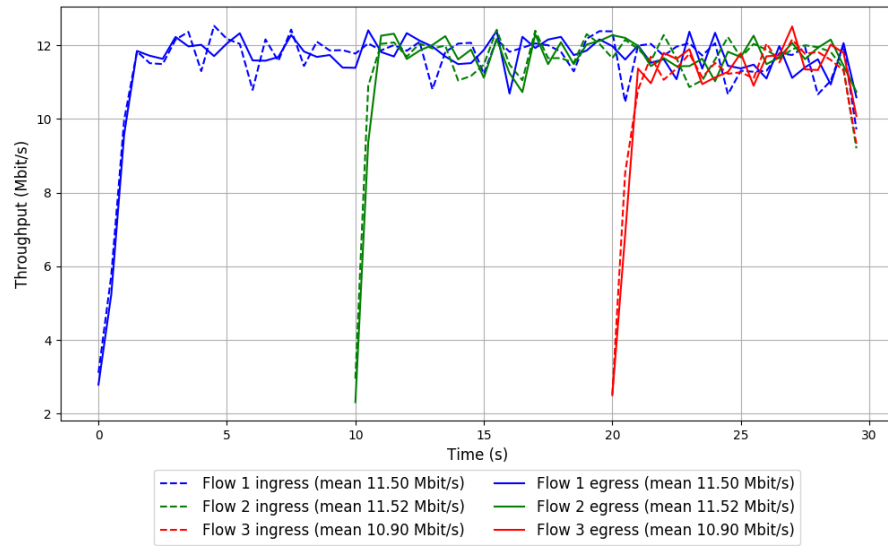


Run 2: Statistics of Sprout

Start at: 2017-09-18 09:30:20
End at: 2017-09-18 09:30:50
Local clock offset: 0.721 ms
Remote clock offset: 1.571 ms

```
# Below is generated by plot.py at 2017-09-18 11:56:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 55.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 54.945 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 54.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 55.767 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-18 09:44:19

End at: 2017-09-18 09:44:49

Local clock offset: 0.73 ms

Remote clock offset: 1.962 ms

Below is generated by plot.py at 2017-09-18 11:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.96 Mbit/s

95th percentile per-packet one-way delay: 55.444 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 55.554 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 55.440 ms

Loss rate: 0.10%

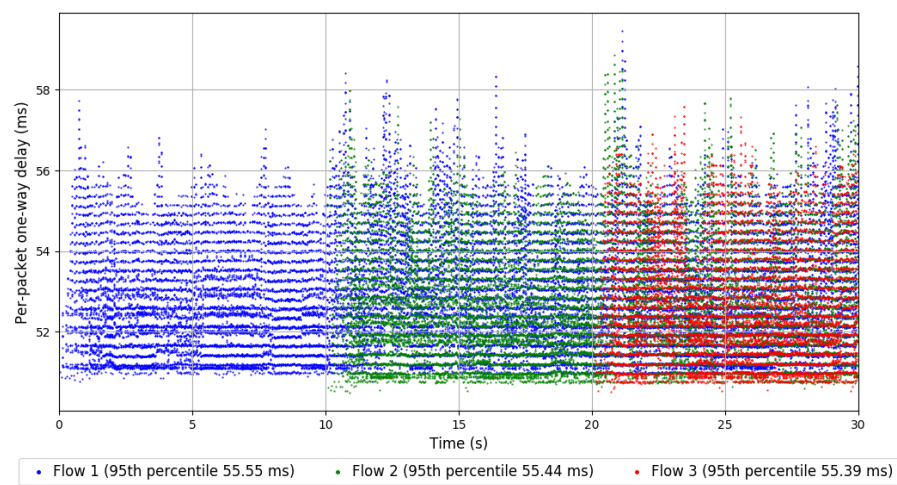
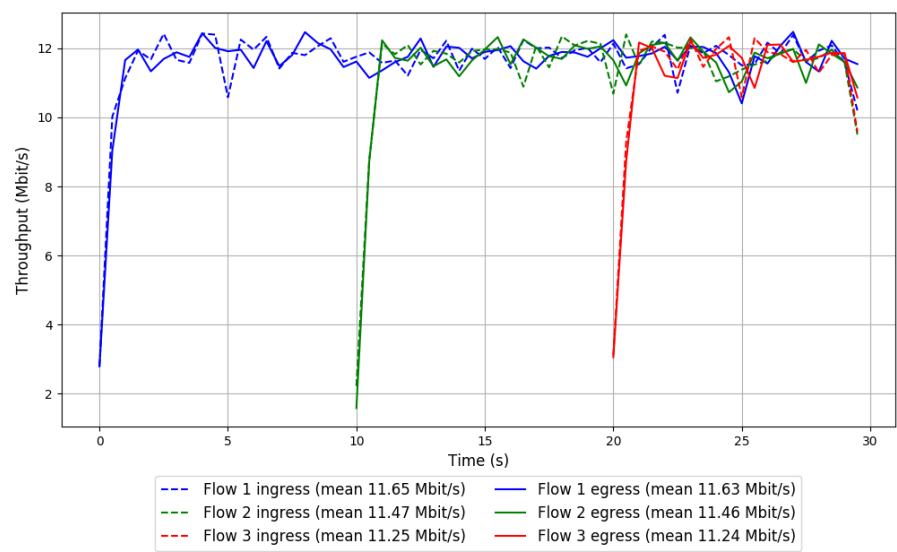
-- Flow 3:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 55.391 ms

Loss rate: 0.09%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-18 09:58:16

End at: 2017-09-18 09:58:46

Local clock offset: 0.63 ms

Remote clock offset: 1.435 ms

Below is generated by plot.py at 2017-09-18 11:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.12 Mbit/s

95th percentile per-packet one-way delay: 54.692 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 54.234 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 55.255 ms

Loss rate: 0.00%

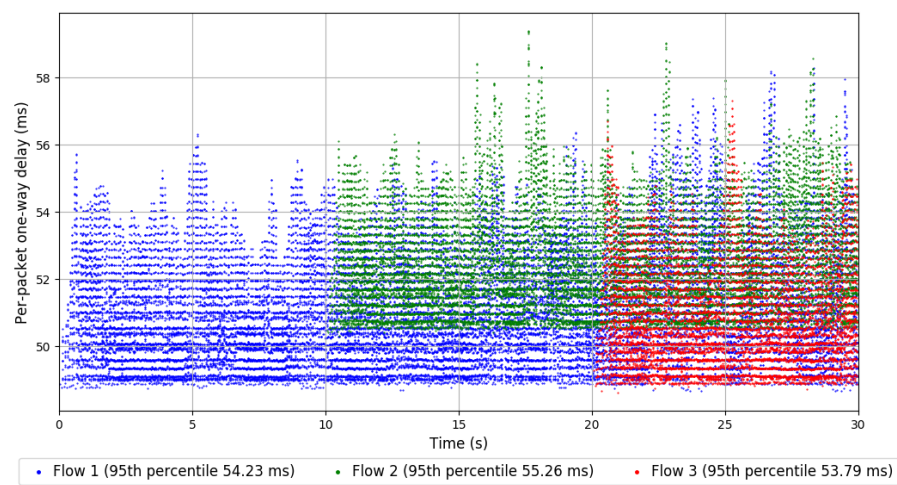
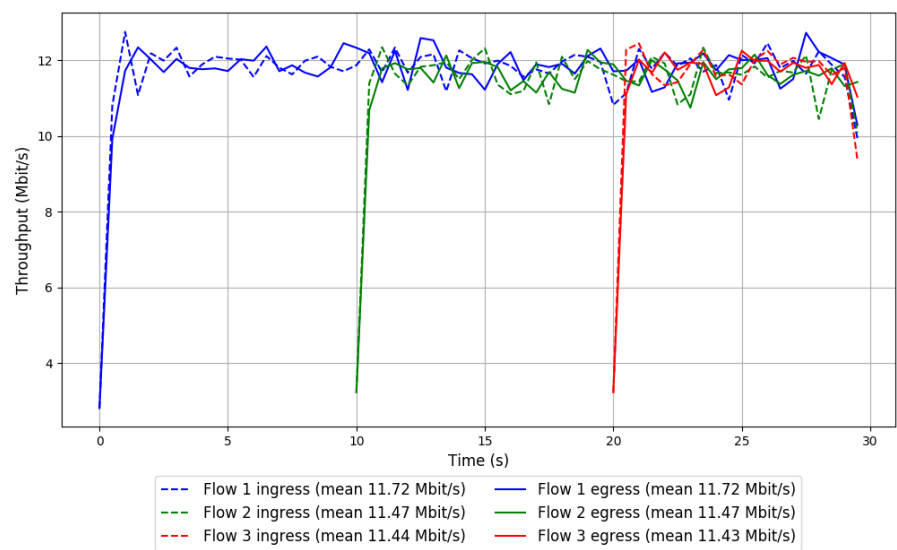
-- Flow 3:

Average throughput: 11.43 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

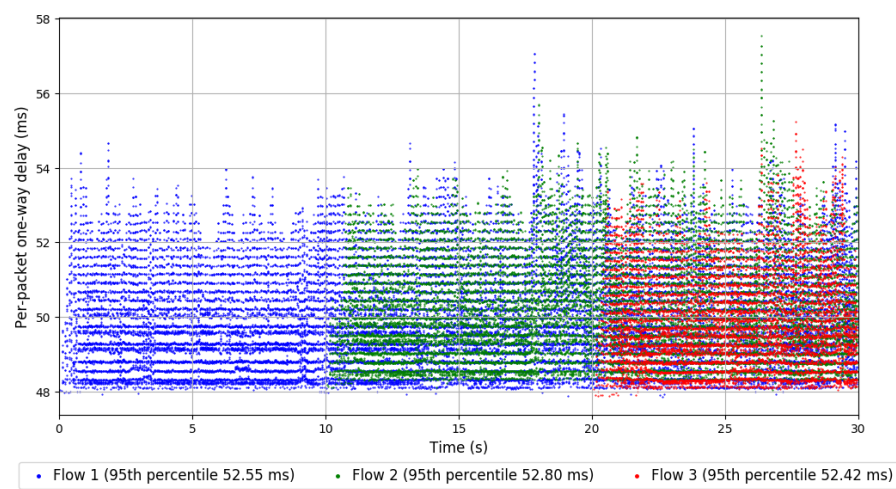
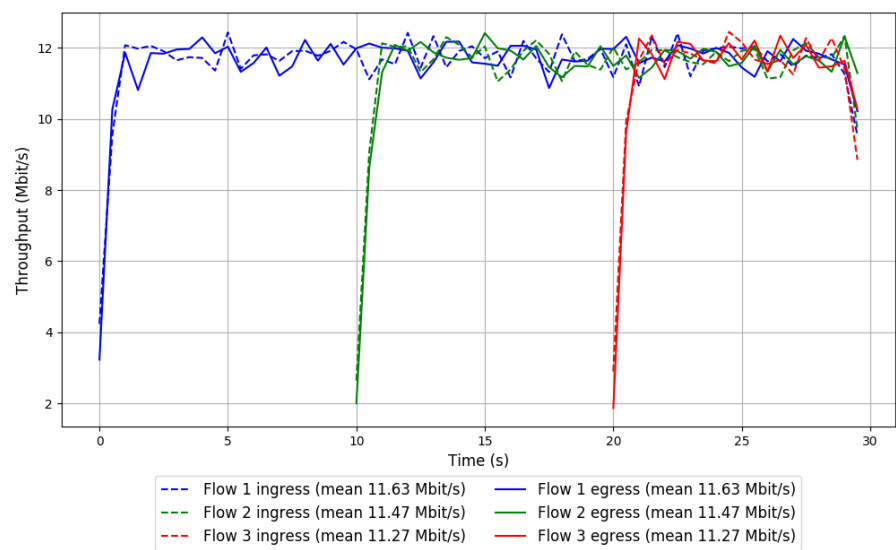


Run 5: Statistics of Sprout

Start at: 2017-09-18 10:12:10
End at: 2017-09-18 10:12:40
Local clock offset: 0.562 ms
Remote clock offset: -0.926 ms

Below is generated by plot.py at 2017-09-18 11:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 52.652 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 52.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 52.796 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 52.416 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

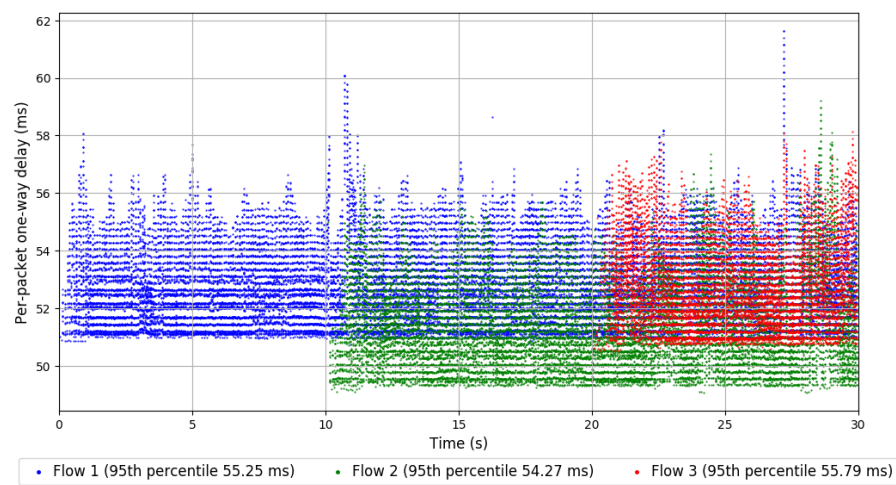
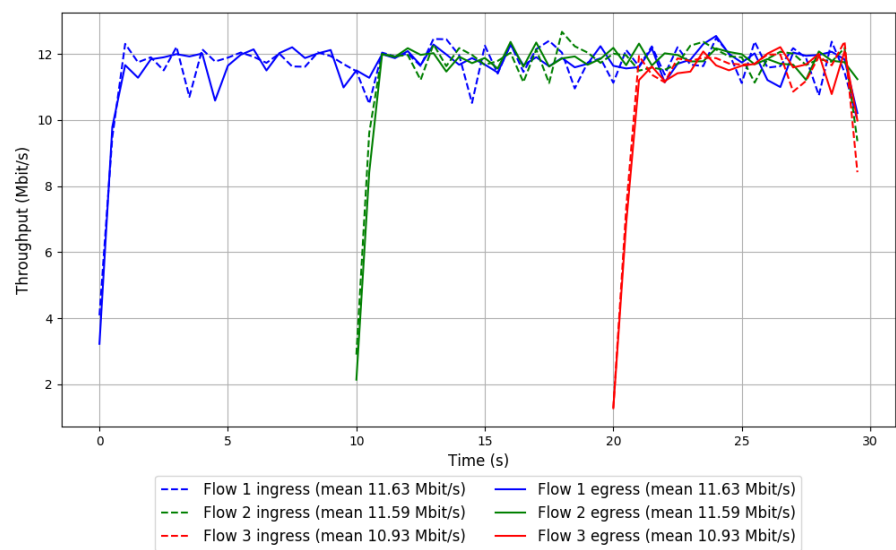


Run 6: Statistics of Sprout

Start at: 2017-09-18 10:26:00
End at: 2017-09-18 10:26:30
Local clock offset: 0.426 ms
Remote clock offset: 1.63 ms

Below is generated by plot.py at 2017-09-18 11:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.94 Mbit/s
95th percentile per-packet one-way delay: 55.206 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 55.254 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 54.269 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 55.791 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

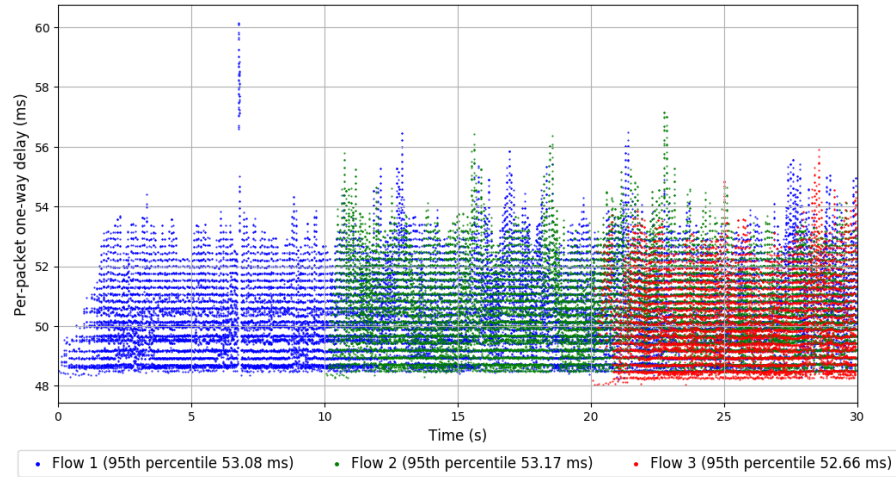
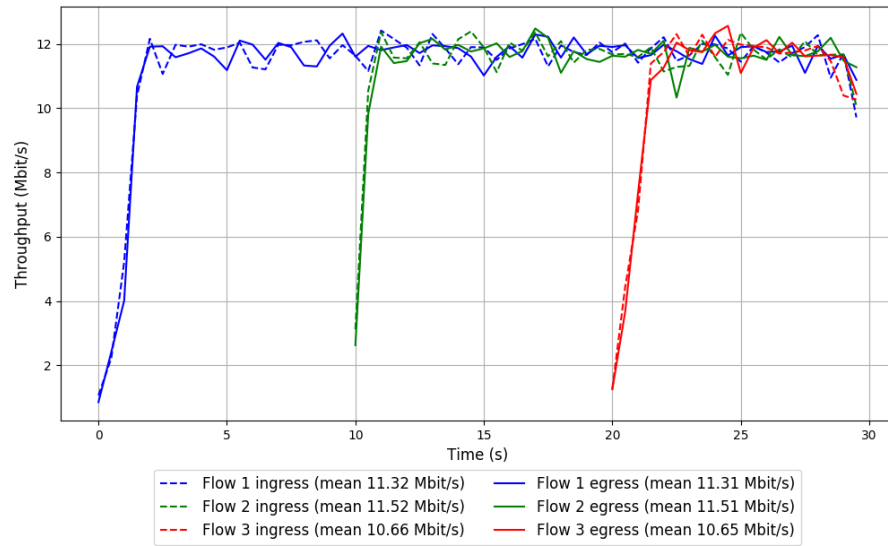


Run 7: Statistics of Sprout

Start at: 2017-09-18 10:39:54
End at: 2017-09-18 10:40:24
Local clock offset: 0.375 ms
Remote clock offset: -0.884 ms

Below is generated by plot.py at 2017-09-18 11:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.48 Mbit/s
95th percentile per-packet one-way delay: 53.053 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 53.080 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 53.175 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 52.659 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-18 10:53:48

End at: 2017-09-18 10:54:18

Local clock offset: 0.414 ms

Remote clock offset: 1.196 ms

Below is generated by plot.py at 2017-09-18 11:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.93 Mbit/s

95th percentile per-packet one-way delay: 54.907 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 54.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 55.377 ms

Loss rate: 0.00%

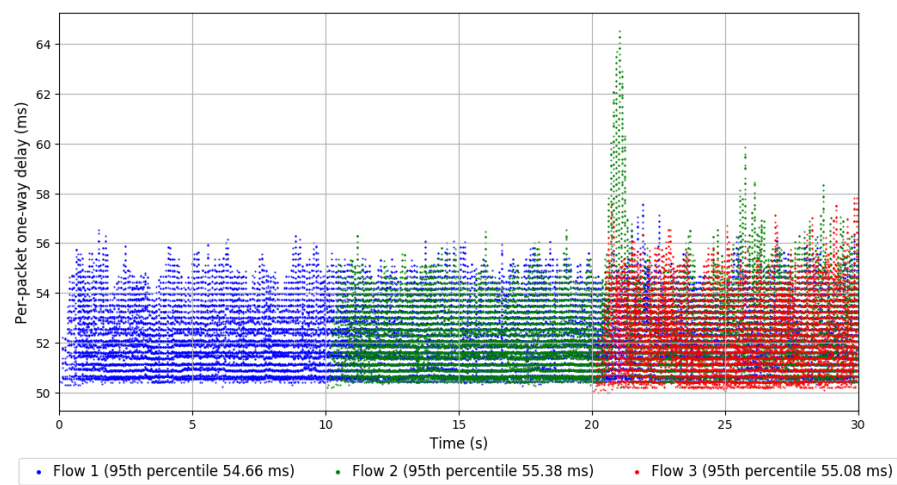
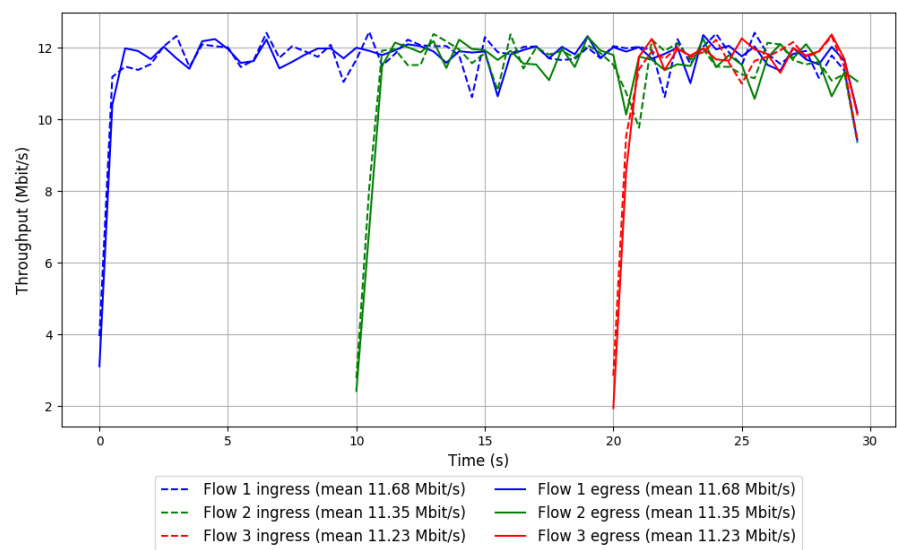
-- Flow 3:

Average throughput: 11.23 Mbit/s

95th percentile per-packet one-way delay: 55.080 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-18 11:07:42

End at: 2017-09-18 11:08:12

Local clock offset: 0.321 ms

Remote clock offset: 1.691 ms

Below is generated by plot.py at 2017-09-18 11:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.81 Mbit/s

95th percentile per-packet one-way delay: 55.447 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 55.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 55.974 ms

Loss rate: 0.00%

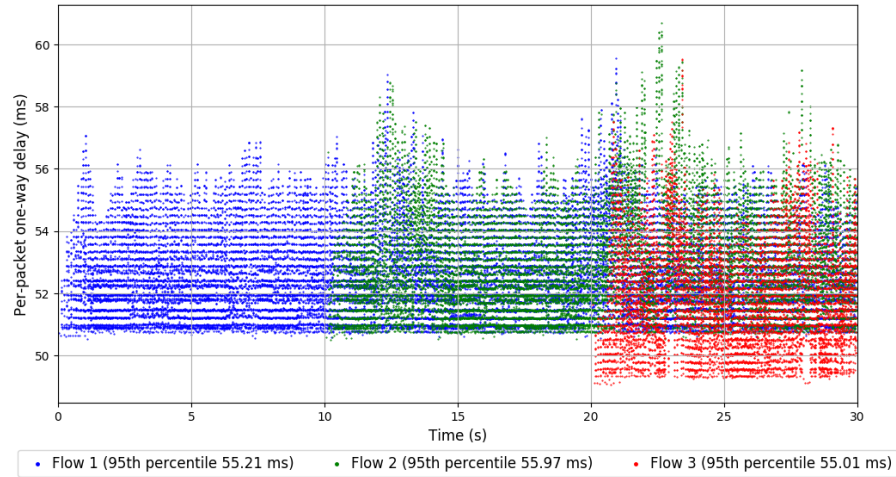
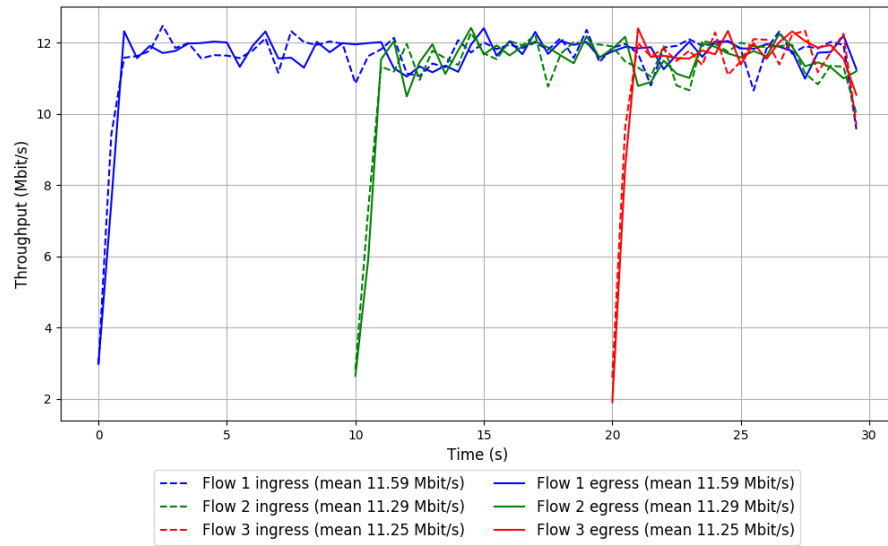
-- Flow 3:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 55.007 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-18 11:21:38

End at: 2017-09-18 11:22:08

Local clock offset: 0.497 ms

Remote clock offset: 1.774 ms

Below is generated by plot.py at 2017-09-18 11:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.73 Mbit/s

95th percentile per-packet one-way delay: 55.363 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 55.197 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 55.197 ms

Loss rate: 0.04%

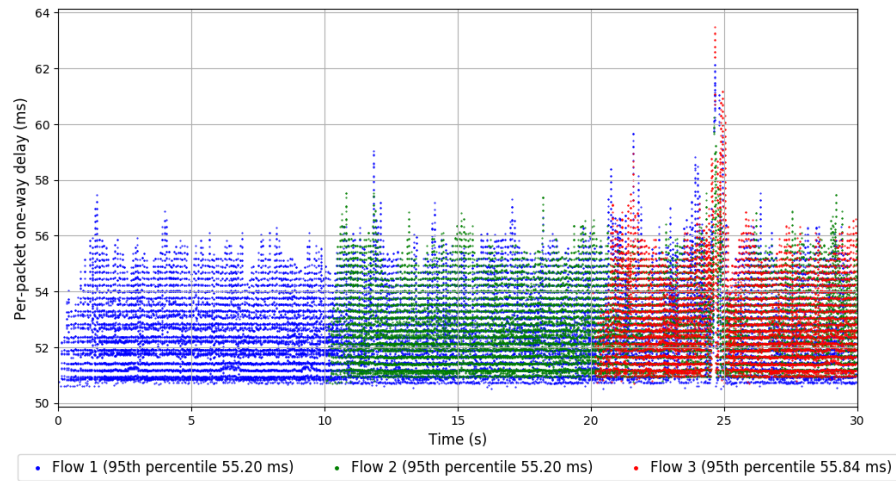
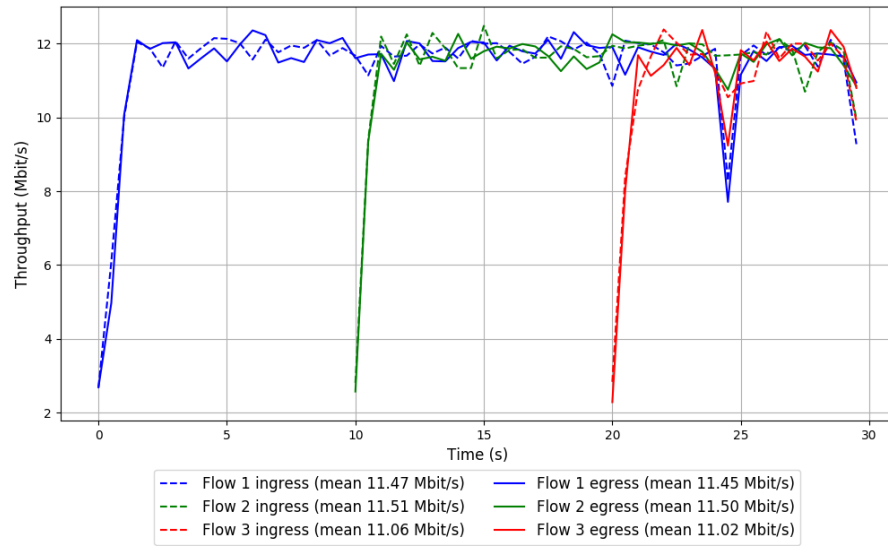
-- Flow 3:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 55.836 ms

Loss rate: 0.35%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 09:14:55

End at: 2017-09-18 09:15:25

Local clock offset: 0.891 ms

Remote clock offset: 1.751 ms

Below is generated by plot.py at 2017-09-18 11:58:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 82.471 ms

Loss rate: 15.51%

-- Flow 1:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 79.964 ms

Loss rate: 11.30%

-- Flow 2:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 84.321 ms

Loss rate: 21.70%

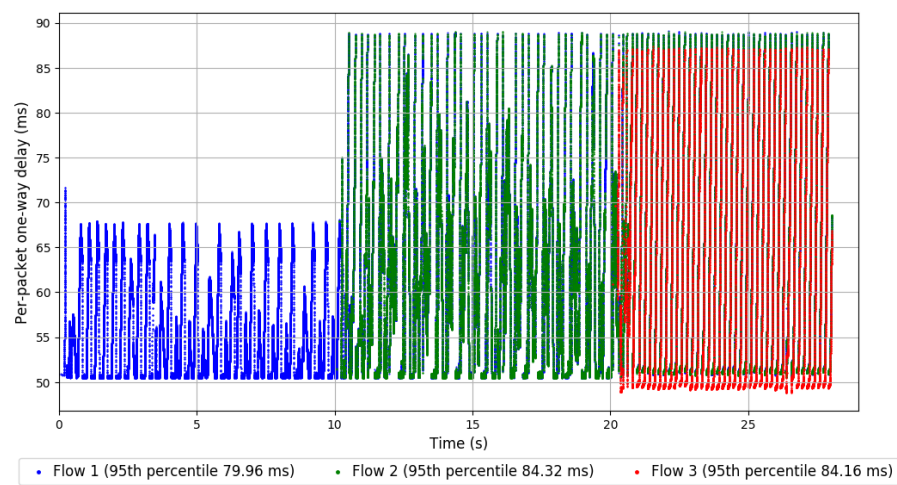
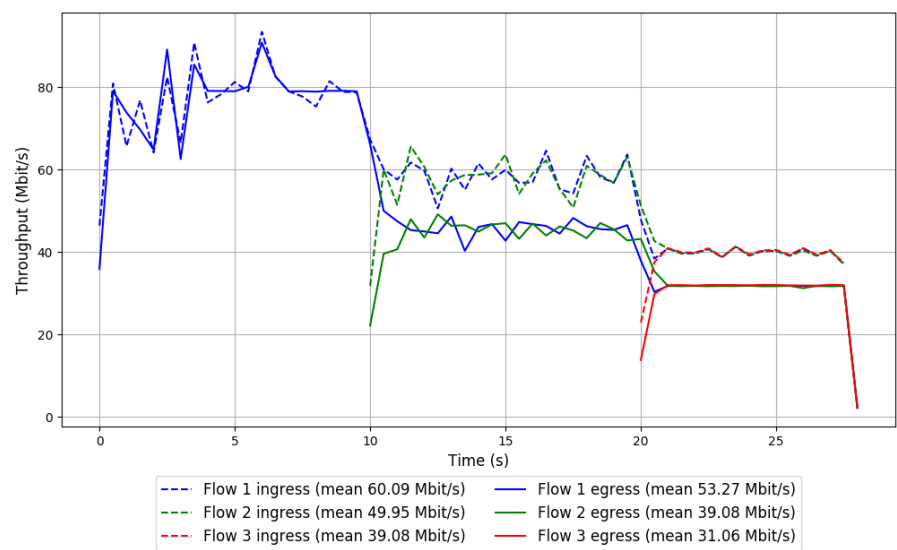
-- Flow 3:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 84.155 ms

Loss rate: 20.46%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 09:28:50

End at: 2017-09-18 09:29:20

Local clock offset: 0.824 ms

Remote clock offset: 1.749 ms

Below is generated by plot.py at 2017-09-18 11:58:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 82.963 ms

Loss rate: 15.46%

-- Flow 1:

Average throughput: 52.50 Mbit/s

95th percentile per-packet one-way delay: 80.129 ms

Loss rate: 11.42%

-- Flow 2:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 84.144 ms

Loss rate: 21.16%

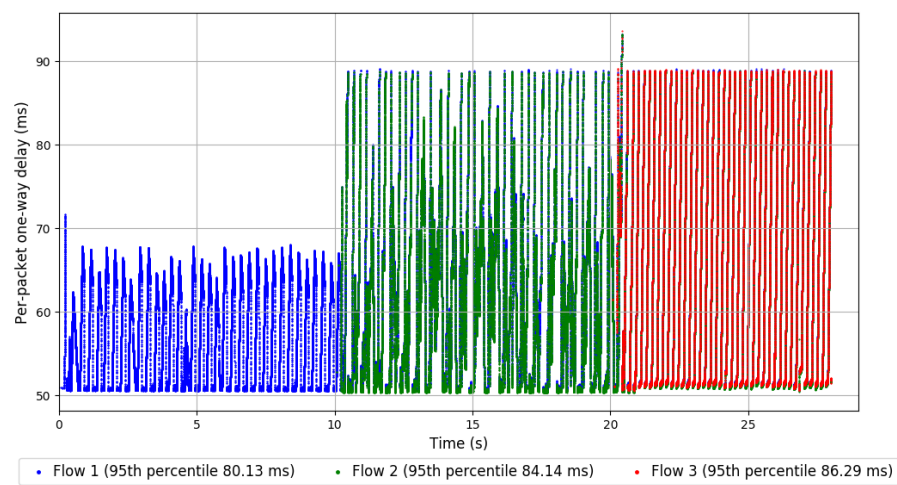
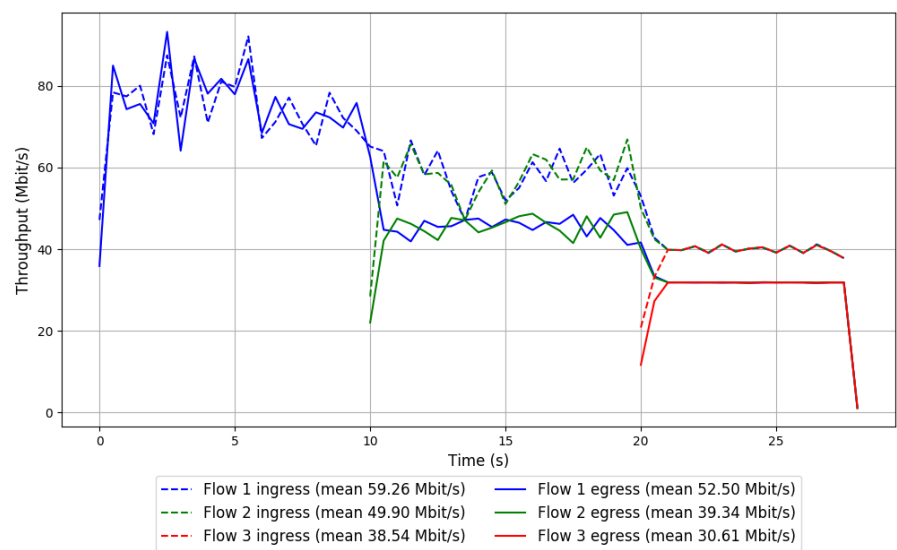
-- Flow 3:

Average throughput: 30.61 Mbit/s

95th percentile per-packet one-way delay: 86.293 ms

Loss rate: 20.66%

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

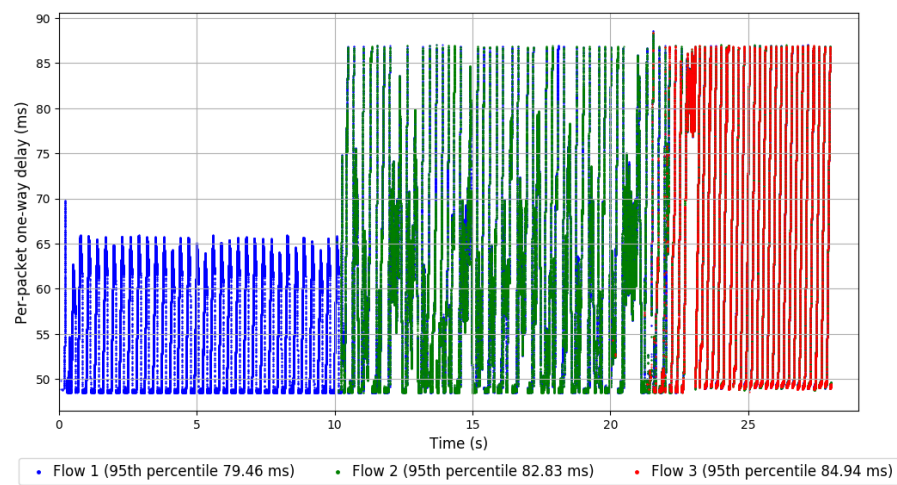
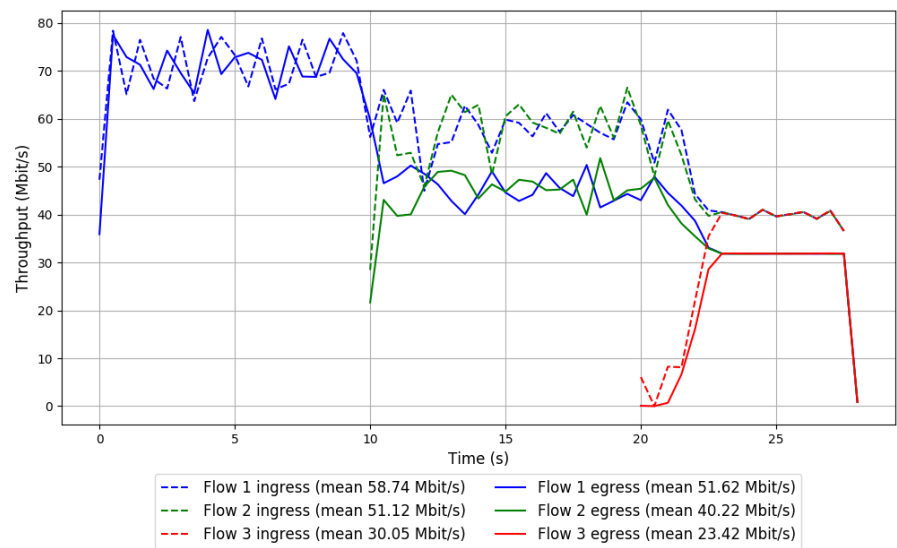


Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 09:42:52
End at: 2017-09-18 09:43:22
Local clock offset: 0.646 ms
Remote clock offset: -0.536 ms

Below is generated by plot.py at 2017-09-18 11:58:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.06 Mbit/s
95th percentile per-packet one-way delay: 81.883 ms
Loss rate: 16.02%
-- Flow 1:
Average throughput: 51.62 Mbit/s
95th percentile per-packet one-way delay: 79.464 ms
Loss rate: 12.12%
-- Flow 2:
Average throughput: 40.22 Mbit/s
95th percentile per-packet one-way delay: 82.831 ms
Loss rate: 21.40%
-- Flow 3:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 84.942 ms
Loss rate: 22.11%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 09:56:49

End at: 2017-09-18 09:57:19

Local clock offset: 0.555 ms

Remote clock offset: 1.462 ms

Below is generated by plot.py at 2017-09-18 11:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.15 Mbit/s

95th percentile per-packet one-way delay: 82.426 ms

Loss rate: 15.13%

-- Flow 1:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 79.509 ms

Loss rate: 11.50%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 84.029 ms

Loss rate: 19.98%

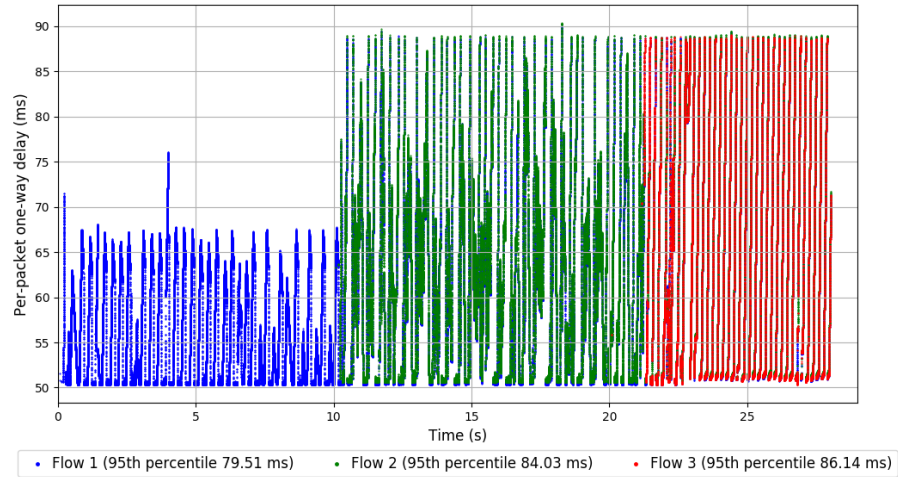
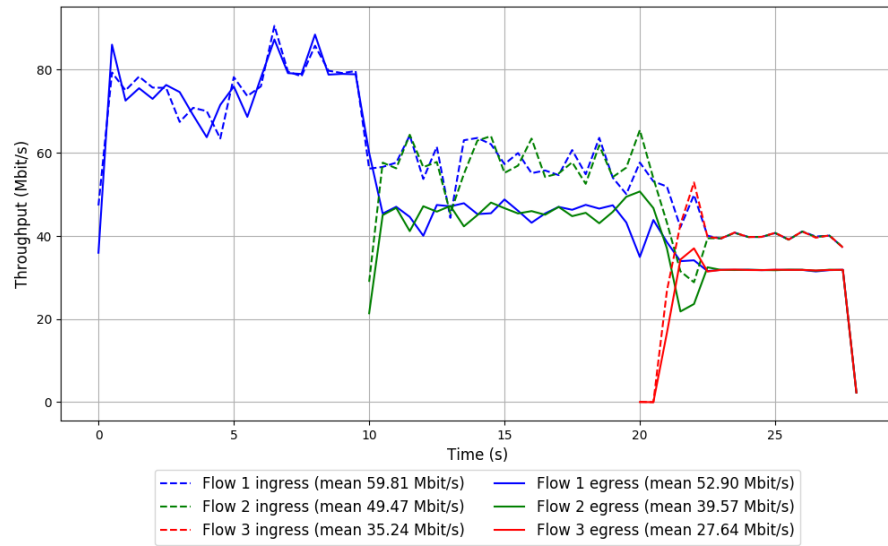
-- Flow 3:

Average throughput: 27.64 Mbit/s

95th percentile per-packet one-way delay: 86.139 ms

Loss rate: 21.42%

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

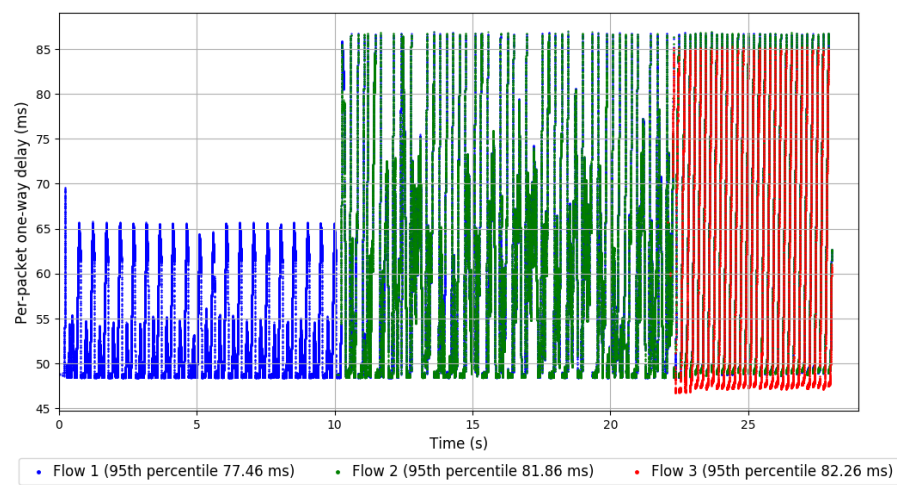
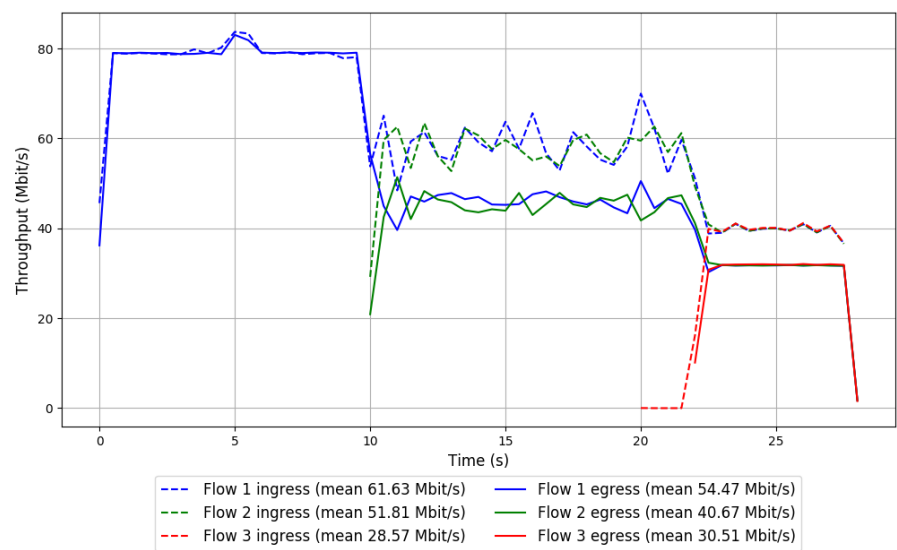


Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 10:10:43
End at: 2017-09-18 10:11:13
Local clock offset: 0.476 ms
Remote clock offset: -0.892 ms

Below is generated by plot.py at 2017-09-18 11:59:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 80.081 ms
Loss rate: 15.44%
-- Flow 1:
Average throughput: 54.47 Mbit/s
95th percentile per-packet one-way delay: 77.459 ms
Loss rate: 11.58%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 81.855 ms
Loss rate: 21.44%
-- Flow 3:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 82.262 ms
Loss rate: 20.20%

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

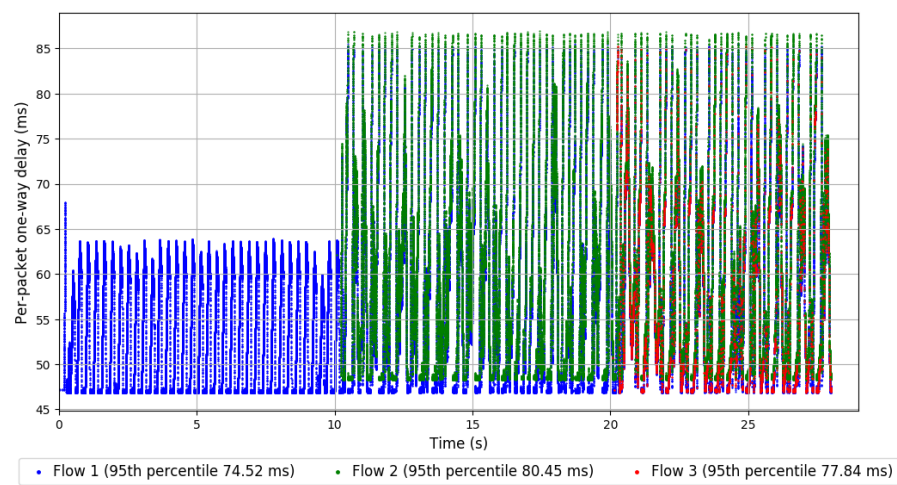
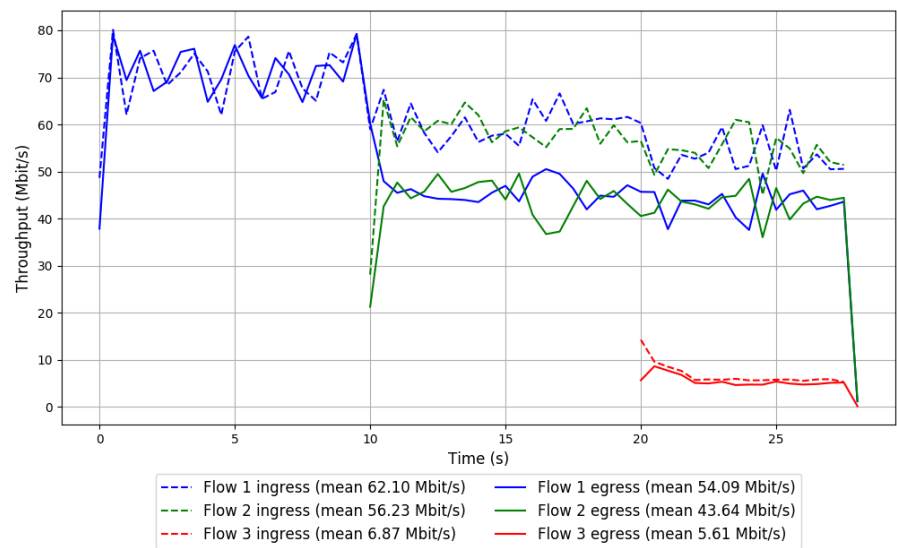


Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 10:24:34
End at: 2017-09-18 10:25:04
Local clock offset: 0.411 ms
Remote clock offset: -0.797 ms

Below is generated by plot.py at 2017-09-18 11:59:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 77.495 ms
Loss rate: 16.45%
-- Flow 1:
Average throughput: 54.09 Mbit/s
95th percentile per-packet one-way delay: 74.517 ms
Loss rate: 12.91%
-- Flow 2:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 80.451 ms
Loss rate: 22.45%
-- Flow 3:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 77.841 ms
Loss rate: 18.32%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 10:38:27

End at: 2017-09-18 10:38:57

Local clock offset: 0.372 ms

Remote clock offset: 1.201 ms

Below is generated by plot.py at 2017-09-18 11:59:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.41 Mbit/s

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

Loss rate: 15.91%

-- Flow 1:

Average throughput: 53.78 Mbit/s

95th percentile per-packet one-way delay: 80.446 ms

Loss rate: 11.81%

-- Flow 2:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 84.707 ms

Loss rate: 22.25%

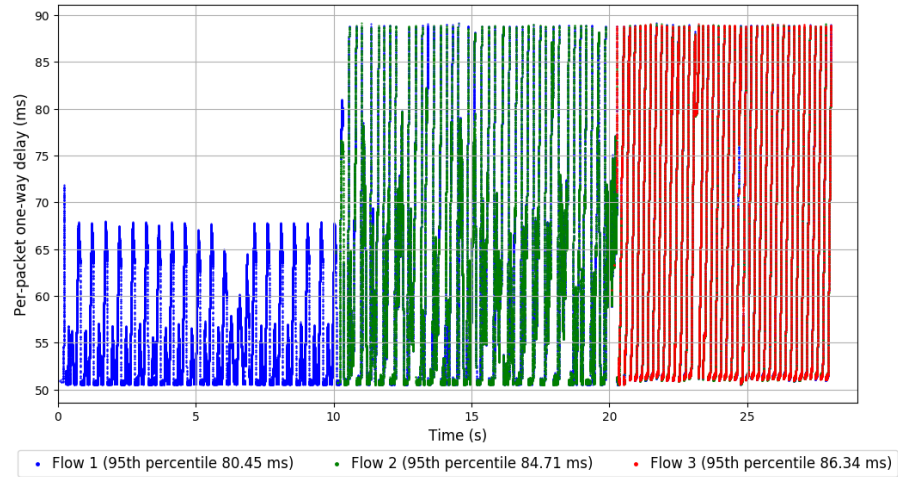
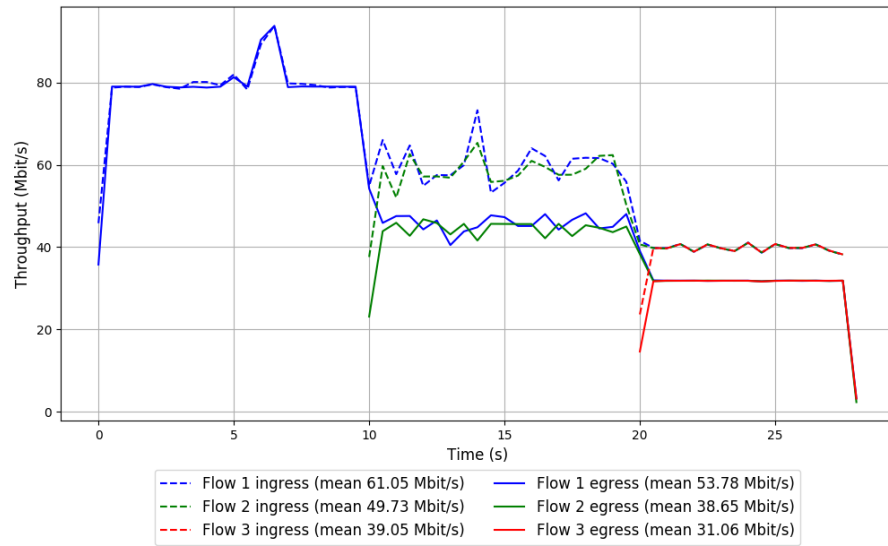
-- Flow 3:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 86.343 ms

Loss rate: 20.22%

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

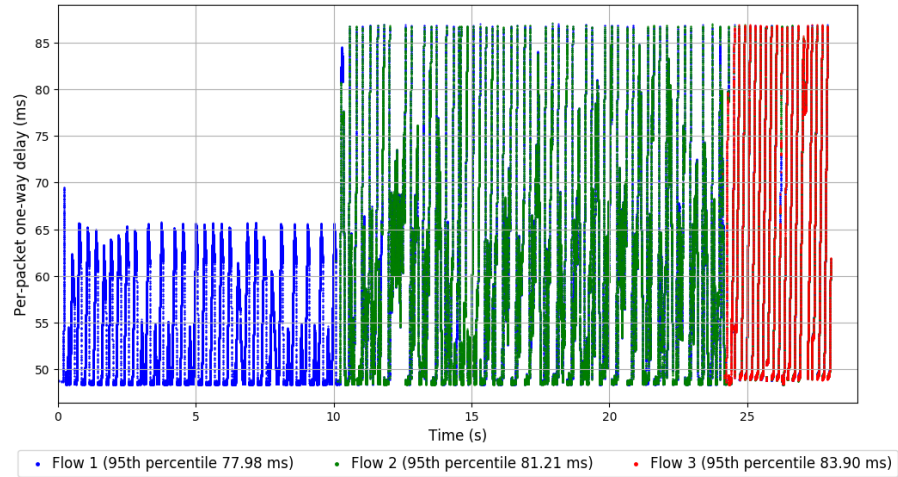
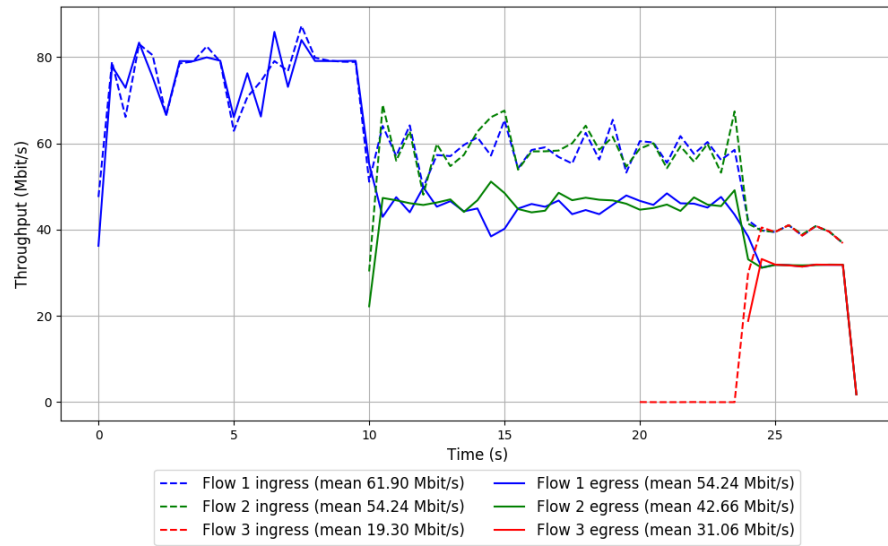


Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 10:52:21
End at: 2017-09-18 10:52:51
Local clock offset: 0.406 ms
Remote clock offset: -0.788 ms

Below is generated by plot.py at 2017-09-18 11:59:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 79.973 ms
Loss rate: 15.84%
-- Flow 1:
Average throughput: 54.24 Mbit/s
95th percentile per-packet one-way delay: 77.979 ms
Loss rate: 12.34%
-- Flow 2:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 81.209 ms
Loss rate: 21.35%
-- Flow 3:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 83.897 ms
Loss rate: 20.34%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 11:06:15

End at: 2017-09-18 11:06:45

Local clock offset: 0.322 ms

Remote clock offset: 1.322 ms

Below is generated by plot.py at 2017-09-18 12:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.84 Mbit/s

95th percentile per-packet one-way delay: 82.998 ms

Loss rate: 16.16%

-- Flow 1:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 80.329 ms

Loss rate: 11.77%

-- Flow 2:

Average throughput: 38.37 Mbit/s

95th percentile per-packet one-way delay: 84.507 ms

Loss rate: 22.71%

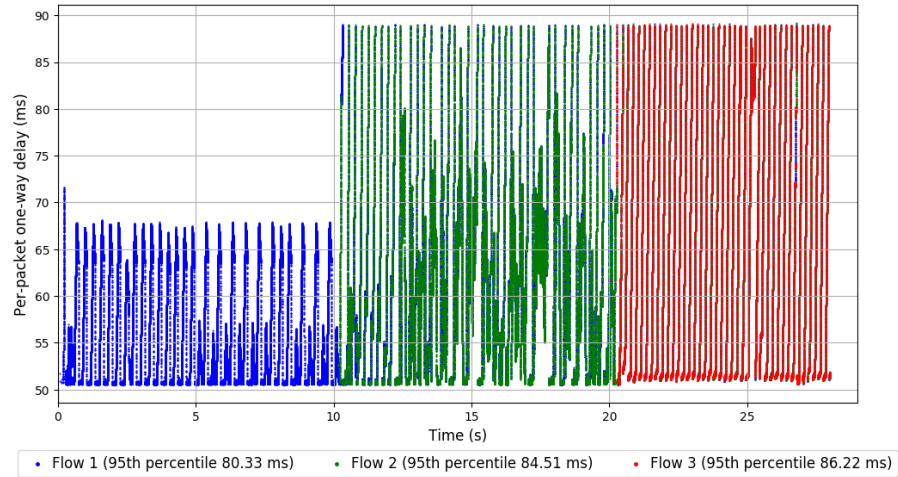
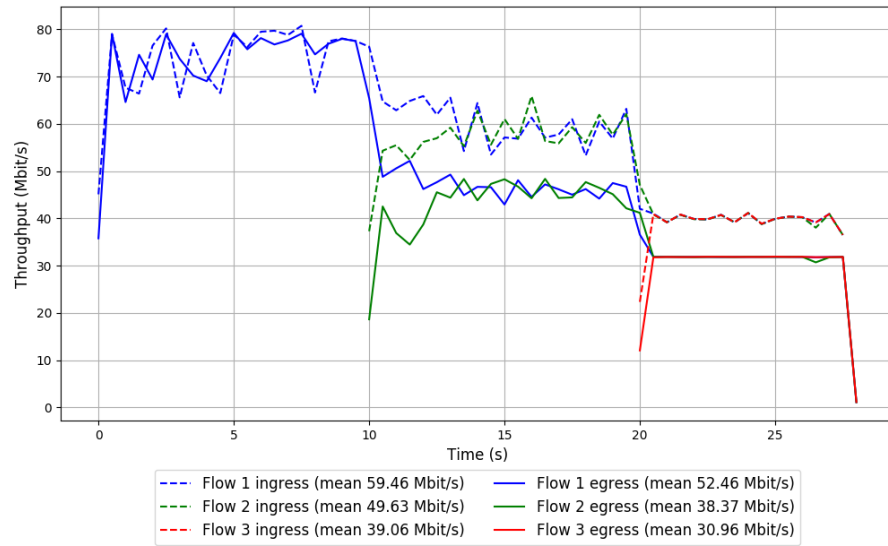
-- Flow 3:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 86.218 ms

Loss rate: 20.85%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 11:20:11

End at: 2017-09-18 11:20:41

Local clock offset: 0.498 ms

Remote clock offset: 1.324 ms

Below is generated by plot.py at 2017-09-18 12:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.98 Mbit/s

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

Loss rate: 16.70%

-- Flow 1:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 80.648 ms

Loss rate: 12.90%

-- Flow 2:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 84.318 ms

Loss rate: 22.46%

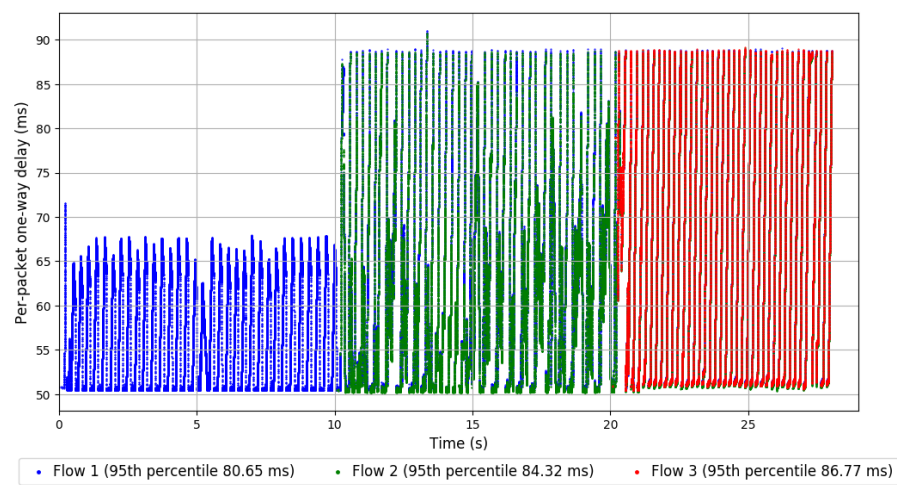
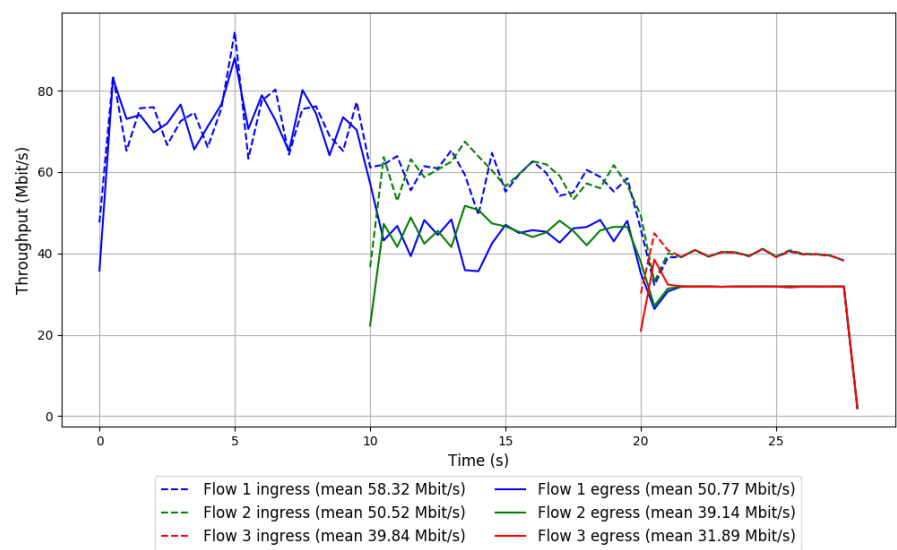
-- Flow 3:

Average throughput: 31.89 Mbit/s

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

Loss rate: 19.80%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 09:12:10

End at: 2017-09-18 09:12:41

Local clock offset: 0.893 ms

Remote clock offset: 1.861 ms

Below is generated by plot.py at 2017-09-18 12:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 58.613 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 65.98 Mbit/s

95th percentile per-packet one-way delay: 59.036 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 58.992 ms

Loss rate: 0.39%

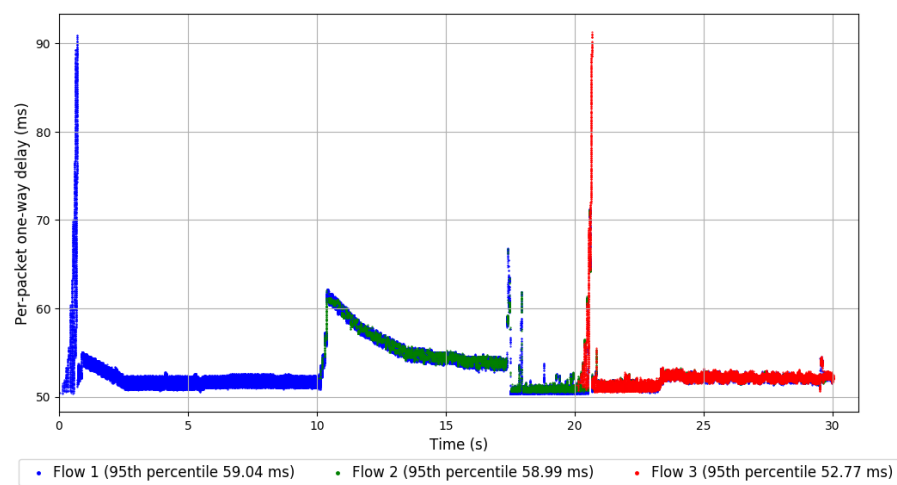
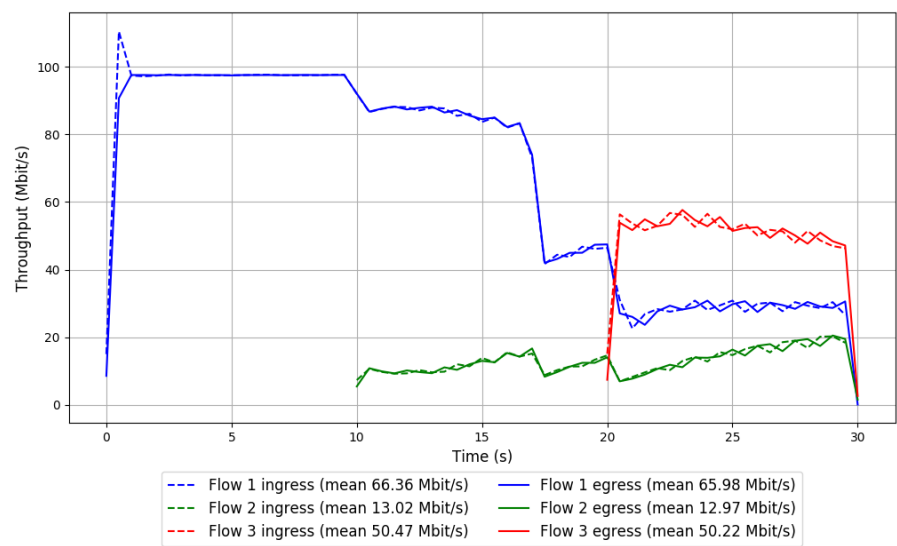
-- Flow 3:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 52.774 ms

Loss rate: 0.48%

Run 1: Report of TCP Vegas — Data Link

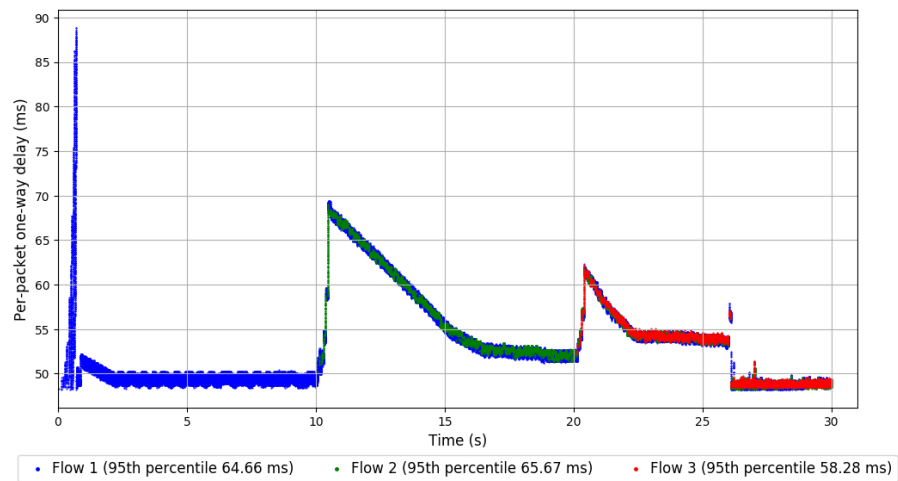
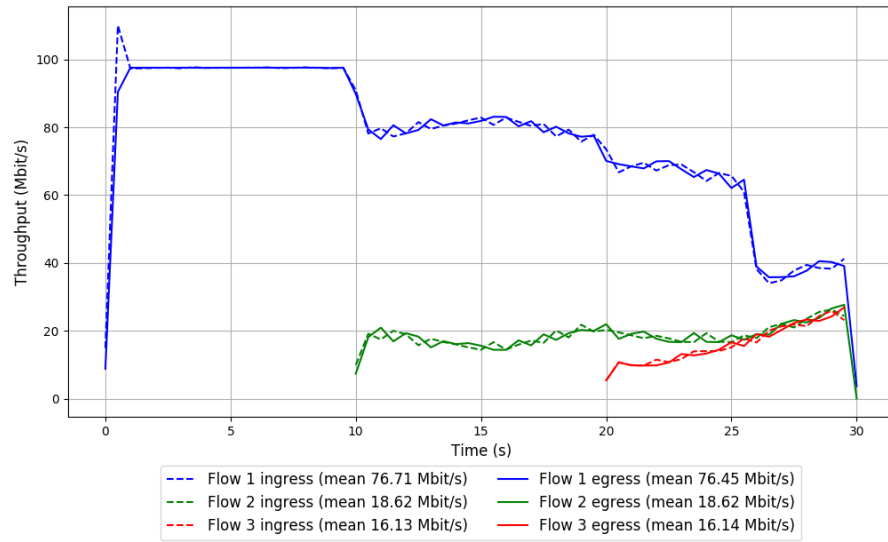


Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 09:26:04
End at: 2017-09-18 09:26:34
Local clock offset: 0.738 ms
Remote clock offset: -0.449 ms

Below is generated by plot.py at 2017-09-18 12:00:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 64.624 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 76.45 Mbit/s
95th percentile per-packet one-way delay: 64.657 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 18.62 Mbit/s
95th percentile per-packet one-way delay: 65.670 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.14 Mbit/s
95th percentile per-packet one-way delay: 58.276 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

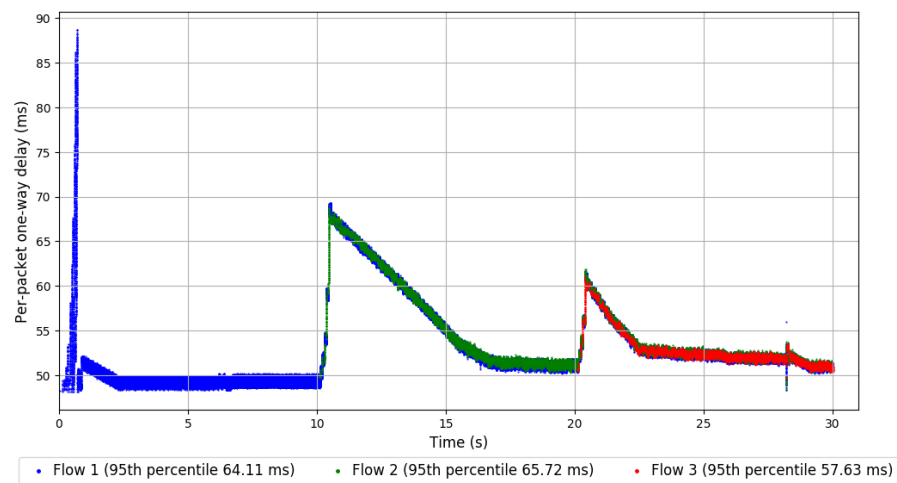
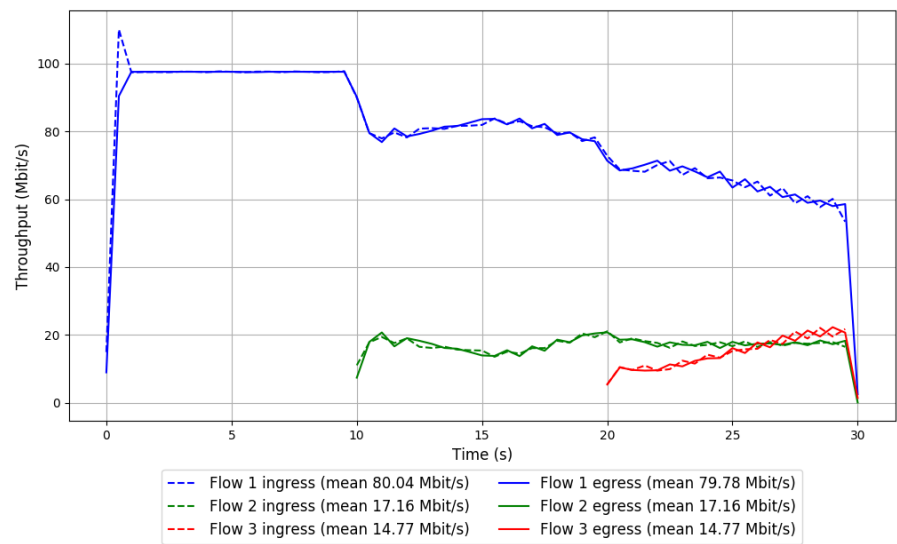


Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 09:40:06
End at: 2017-09-18 09:40:36
Local clock offset: 0.754 ms
Remote clock offset: -0.576 ms

```
# Below is generated by plot.py at 2017-09-18 12:00:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 64.146 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 79.78 Mbit/s
95th percentile per-packet one-way delay: 64.105 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 65.723 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.77 Mbit/s
95th percentile per-packet one-way delay: 57.626 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 09:54:02

End at: 2017-09-18 09:54:32

Local clock offset: 0.561 ms

Remote clock offset: 1.387 ms

Below is generated by plot.py at 2017-09-18 12:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 64.914 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.29 Mbit/s

95th percentile per-packet one-way delay: 63.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.68 Mbit/s

95th percentile per-packet one-way delay: 67.340 ms

Loss rate: 0.00%

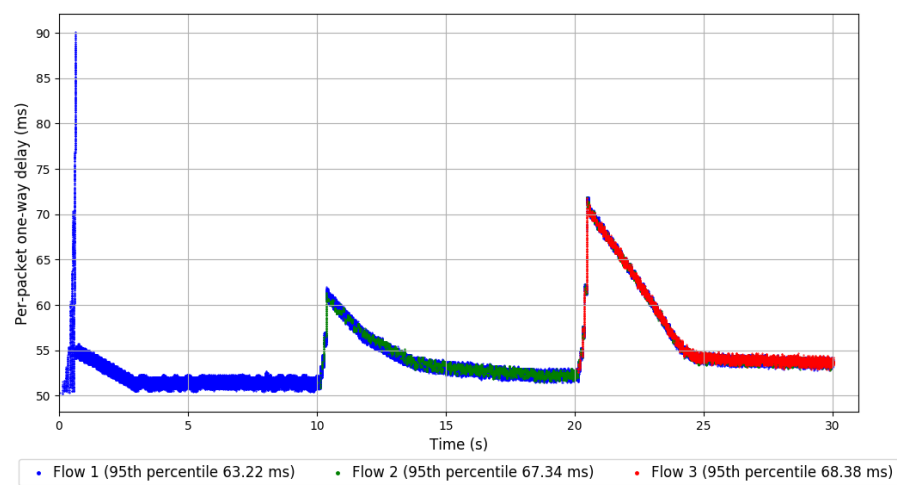
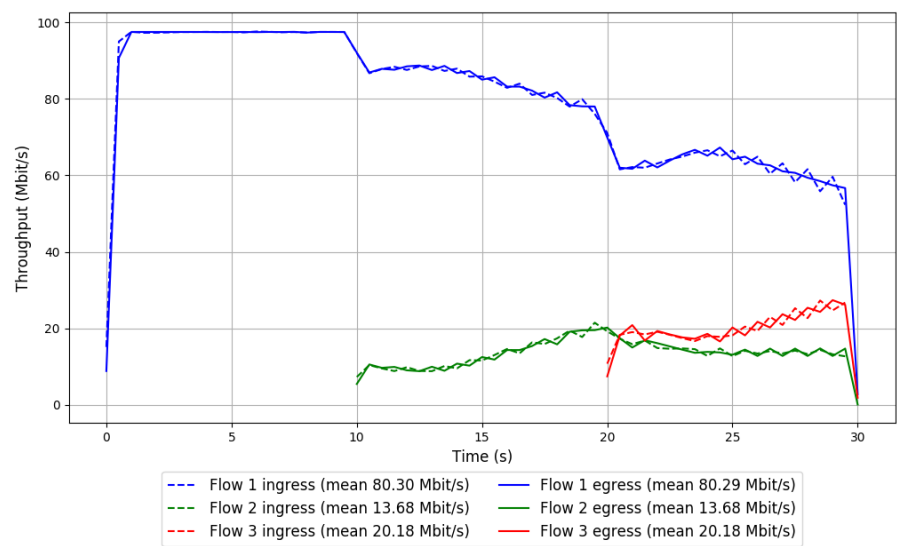
-- Flow 3:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 68.375 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 10:07:58

End at: 2017-09-18 10:08:28

Local clock offset: 0.481 ms

Remote clock offset: 1.237 ms

Below is generated by plot.py at 2017-09-18 12:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 67.712 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 67.126 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 69.129 ms

Loss rate: 0.01%

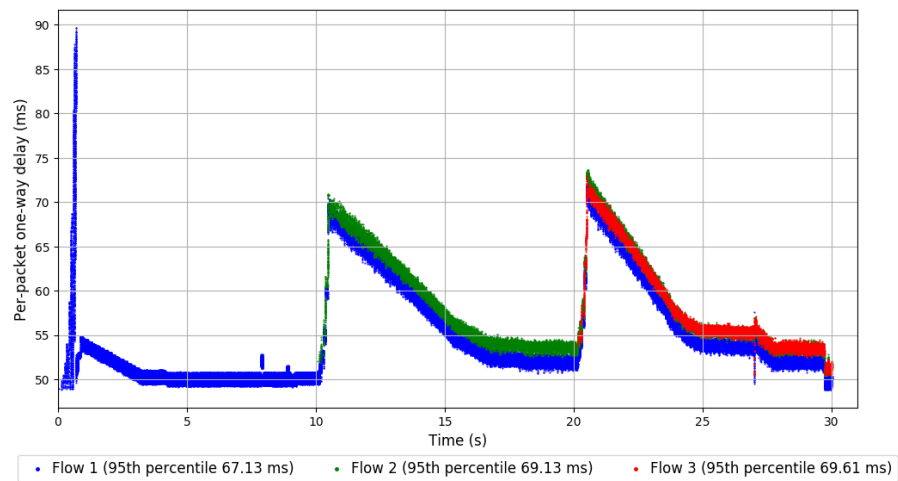
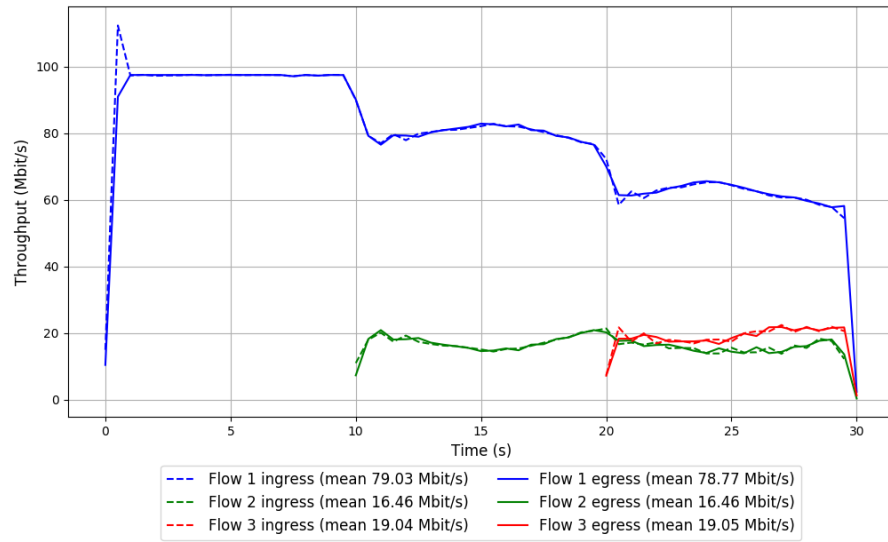
-- Flow 3:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 69.608 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 10:21:49

End at: 2017-09-18 10:22:19

Local clock offset: 0.431 ms

Remote clock offset: -0.9 ms

Below is generated by plot.py at 2017-09-18 12:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 62.467 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 43.59 Mbit/s

95th percentile per-packet one-way delay: 60.656 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 49.16 Mbit/s

95th percentile per-packet one-way delay: 62.657 ms

Loss rate: 0.34%

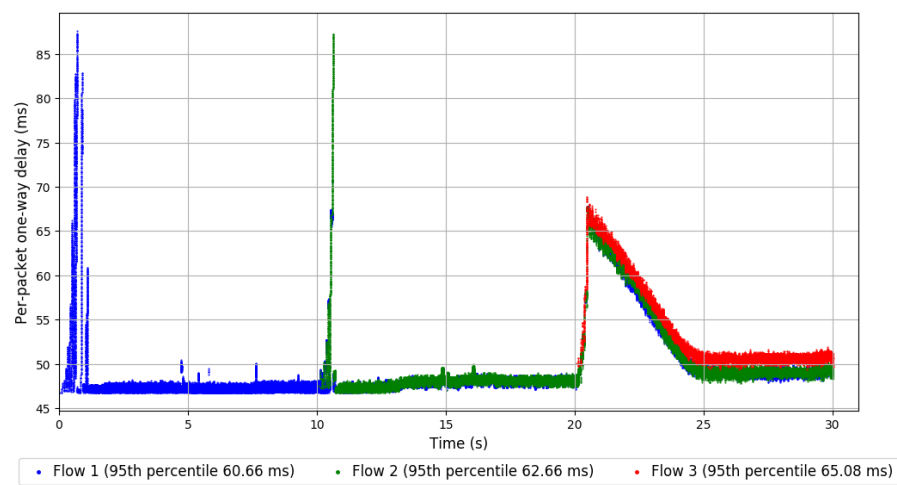
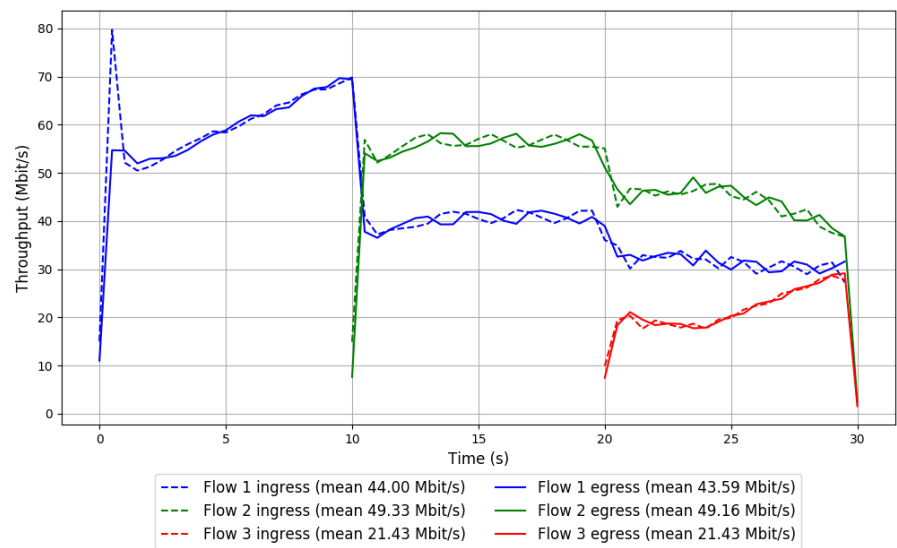
-- Flow 3:

Average throughput: 21.43 Mbit/s

95th percentile per-packet one-way delay: 65.081 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

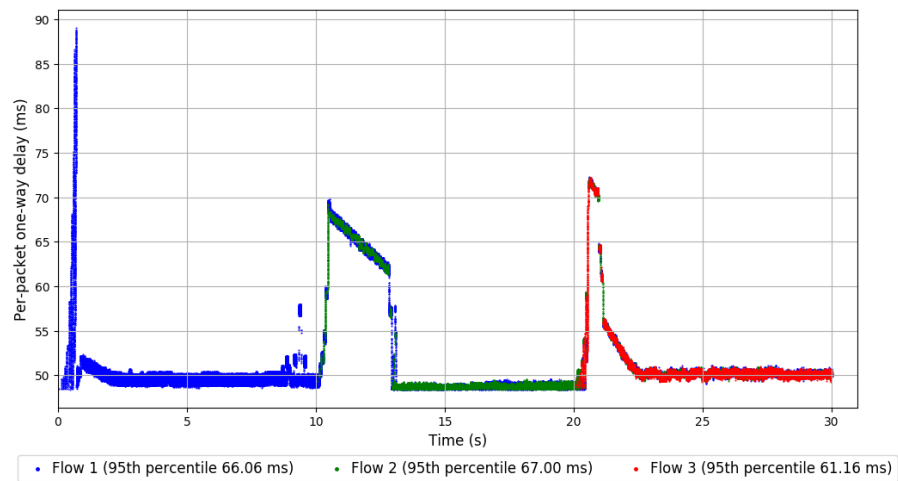
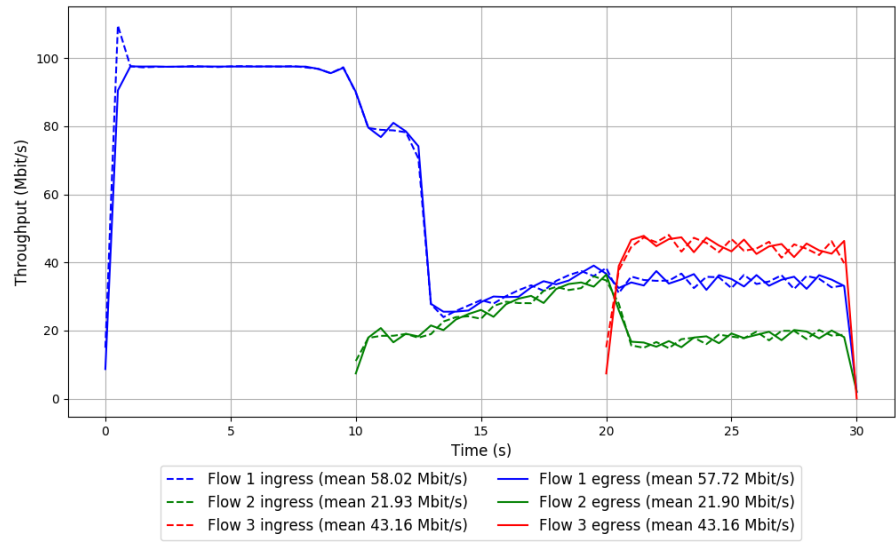


Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 10:35:42
End at: 2017-09-18 10:36:12
Local clock offset: 0.492 ms
Remote clock offset: -0.797 ms

Below is generated by plot.py at 2017-09-18 12:01:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 66.077 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 57.72 Mbit/s
95th percentile per-packet one-way delay: 66.056 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 21.90 Mbit/s
95th percentile per-packet one-way delay: 67.004 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 61.165 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 10:49:36

End at: 2017-09-18 10:50:06

Local clock offset: 0.422 ms

Remote clock offset: 1.154 ms

Below is generated by plot.py at 2017-09-18 12:01:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.19 Mbit/s

95th percentile per-packet one-way delay: 76.962 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 53.78 Mbit/s

95th percentile per-packet one-way delay: 61.163 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 78.043 ms

Loss rate: 0.08%

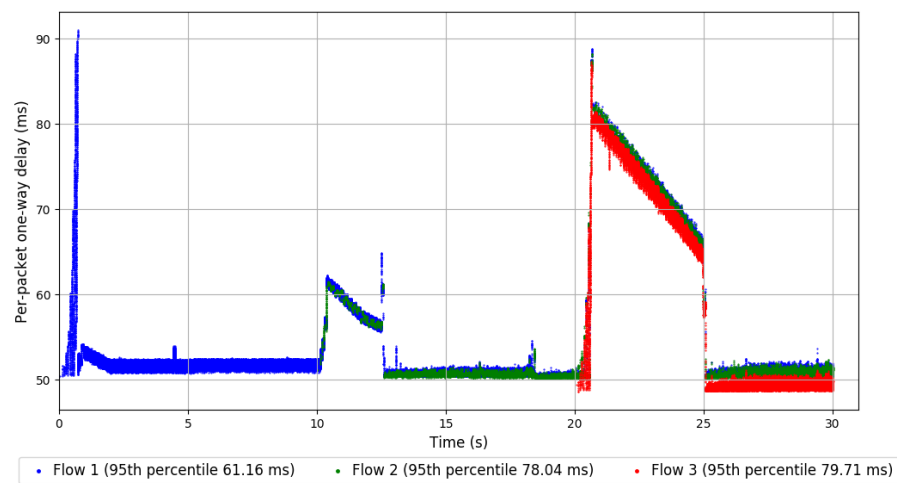
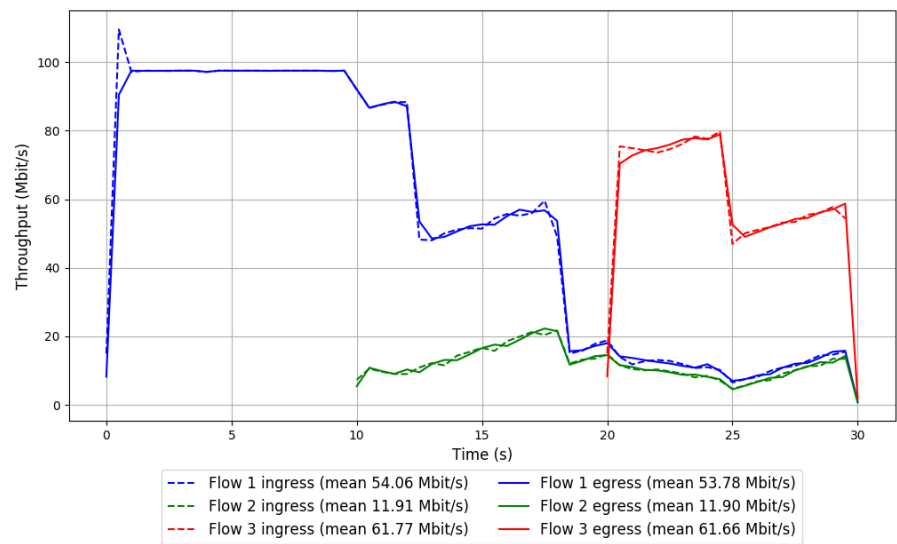
-- Flow 3:

Average throughput: 61.66 Mbit/s

95th percentile per-packet one-way delay: 79.712 ms

Loss rate: 0.17%

Run 8: Report of TCP Vegas — Data Link

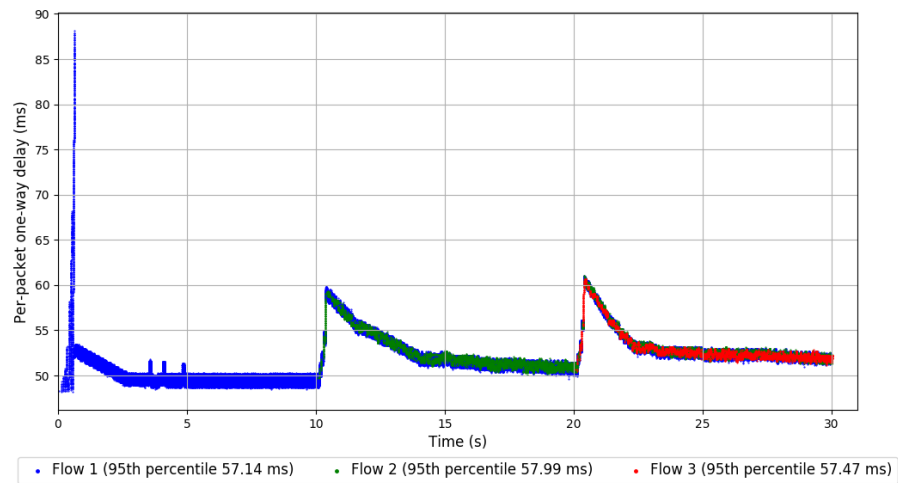
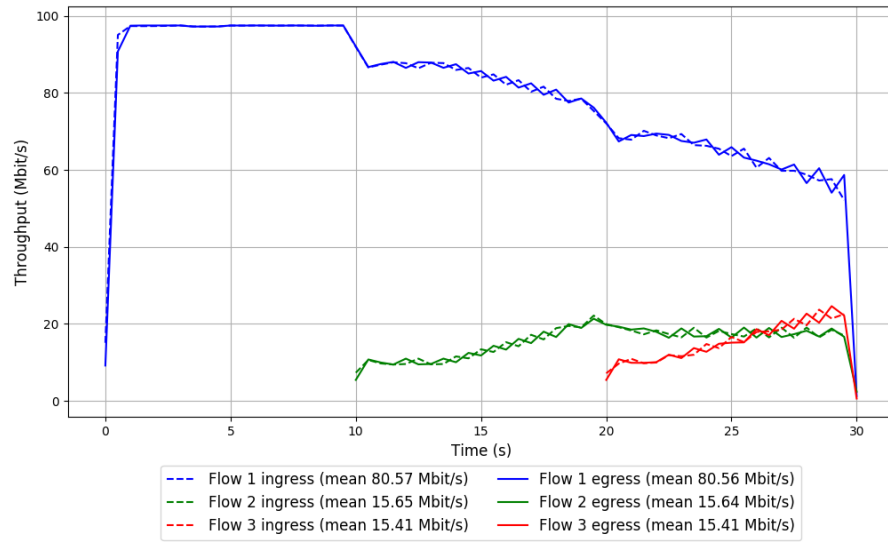


Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 11:03:29
End at: 2017-09-18 11:03:59
Local clock offset: 0.308 ms
Remote clock offset: -0.827 ms

Below is generated by plot.py at 2017-09-18 12:01:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 57.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 57.139 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 57.987 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.41 Mbit/s
95th percentile per-packet one-way delay: 57.470 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 11:17:25

End at: 2017-09-18 11:17:55

Local clock offset: 0.355 ms

Remote clock offset: 1.83 ms

Below is generated by plot.py at 2017-09-18 12:01:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 60.401 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 60.391 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 16.44 Mbit/s

95th percentile per-packet one-way delay: 60.682 ms

Loss rate: 0.02%

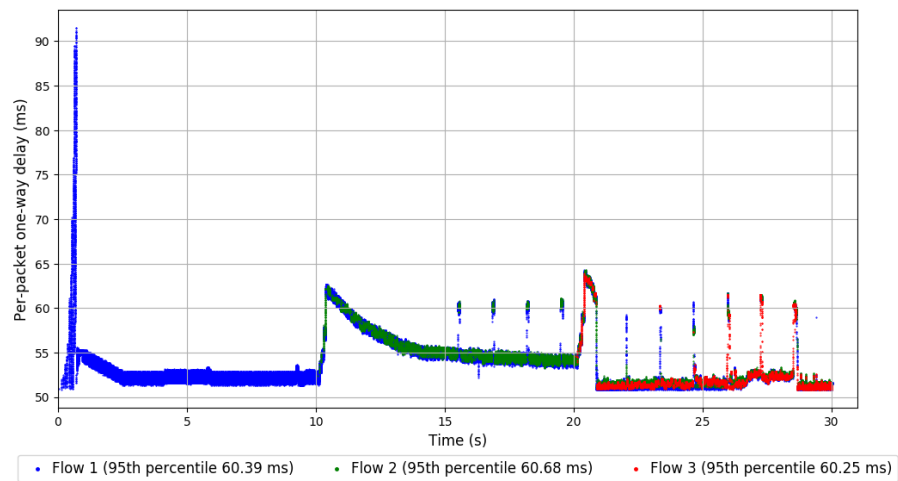
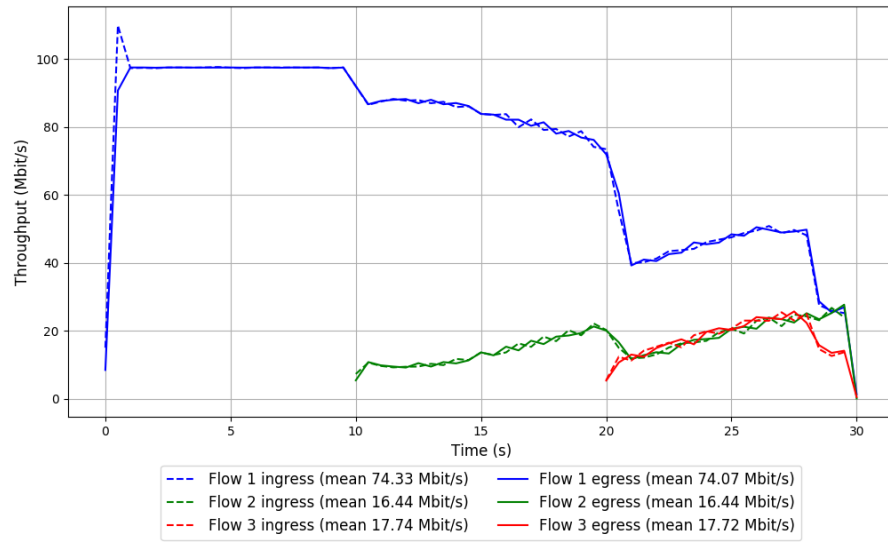
-- Flow 3:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 60.251 ms

Loss rate: 0.15%

Run 10: Report of TCP Vegas — Data Link

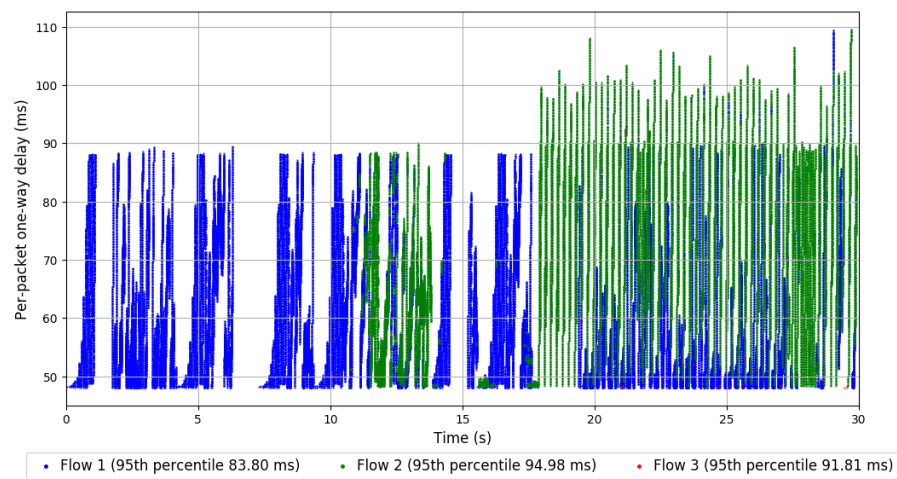
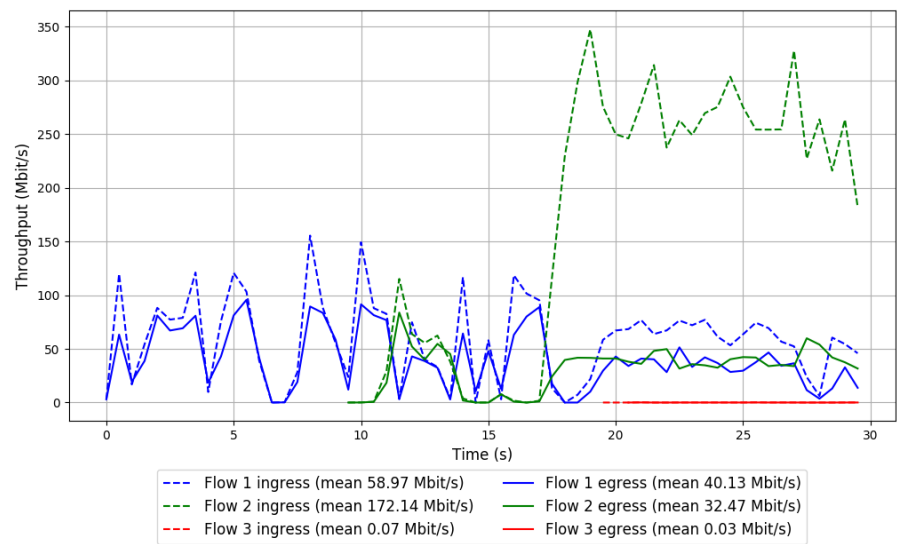


Run 1: Statistics of Verus

Start at: 2017-09-18 09:06:36
End at: 2017-09-18 09:07:06
Local clock offset: 0.926 ms
Remote clock offset: -0.411 ms

Below is generated by plot.py at 2017-09-18 12:01:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.79 Mbit/s
95th percentile per-packet one-way delay: 87.949 ms
Loss rate: 64.40%
-- Flow 1:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 83.804 ms
Loss rate: 31.87%
-- Flow 2:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 94.983 ms
Loss rate: 81.11%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 91.808 ms
Loss rate: 65.52%

Run 1: Report of Verus — Data Link

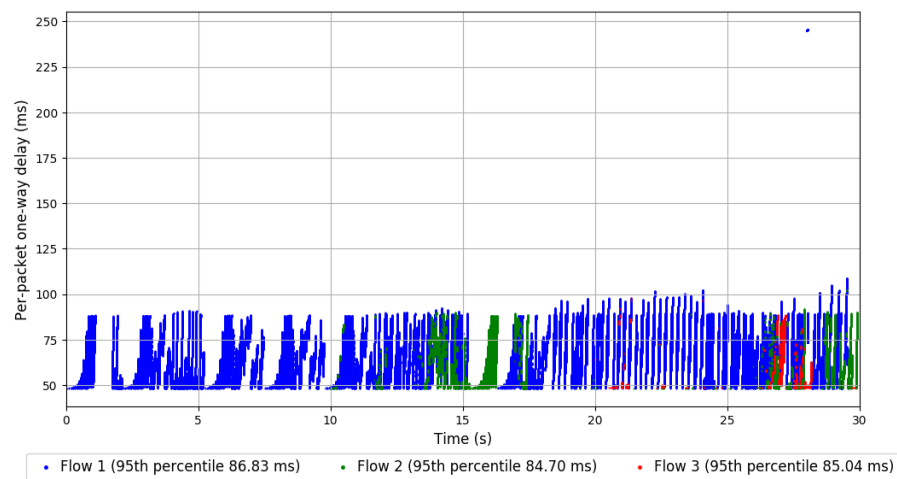
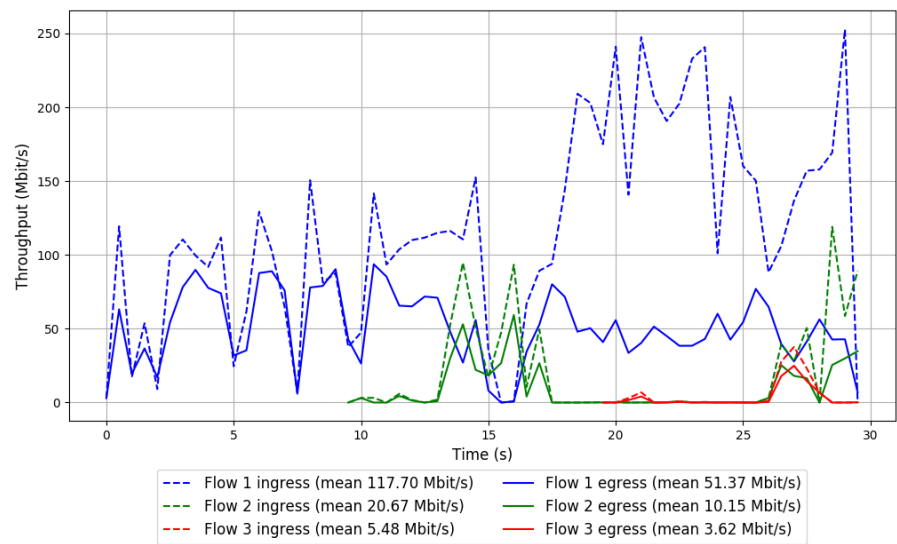


Run 2: Statistics of Verus

Start at: 2017-09-18 09:20:30
End at: 2017-09-18 09:21:00
Local clock offset: 0.883 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2017-09-18 12:01:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.68 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 55.64%
-- Flow 1:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 86.830 ms
Loss rate: 56.55%
-- Flow 2:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: 84.703 ms
Loss rate: 50.82%
-- Flow 3:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 85.040 ms
Loss rate: 34.09%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-18 09:34:31

End at: 2017-09-18 09:35:01

Local clock offset: 0.802 ms

Remote clock offset: 1.5 ms

Below is generated by plot.py at 2017-09-18 12:02:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 85.591 ms

Loss rate: 25.50%

-- Flow 1:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 85.887 ms

Loss rate: 24.02%

-- Flow 2:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 85.369 ms

Loss rate: 27.54%

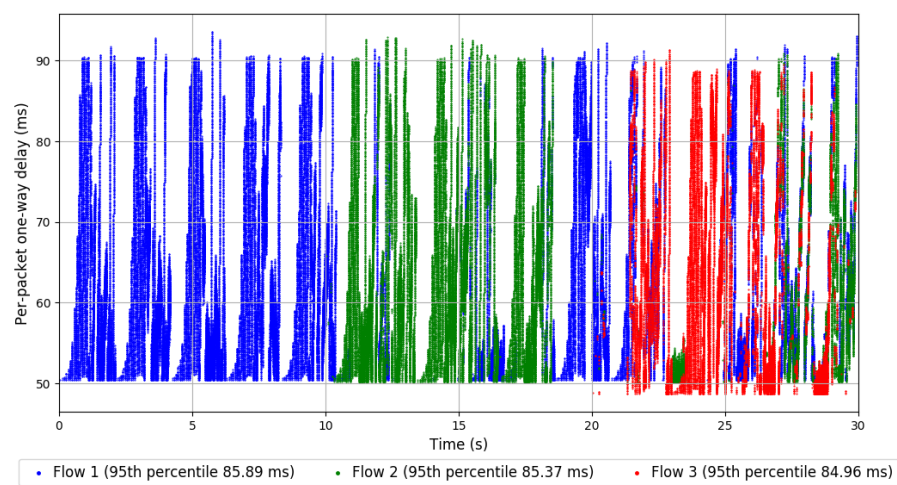
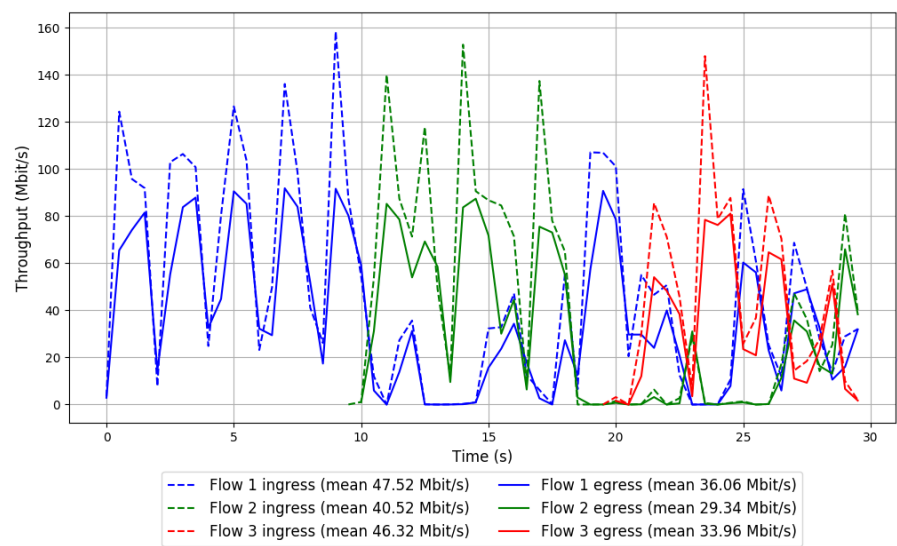
-- Flow 3:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 84.956 ms

Loss rate: 26.50%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-18 09:48:28

End at: 2017-09-18 09:48:58

Local clock offset: 0.61 ms

Remote clock offset: 1.879 ms

Below is generated by plot.py at 2017-09-18 12:02:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 87.435 ms

Loss rate: 40.09%

-- Flow 1:

Average throughput: 41.79 Mbit/s

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

Loss rate: 43.95%

-- Flow 2:

Average throughput: 18.83 Mbit/s

95th percentile per-packet one-way delay: 84.573 ms

Loss rate: 15.42%

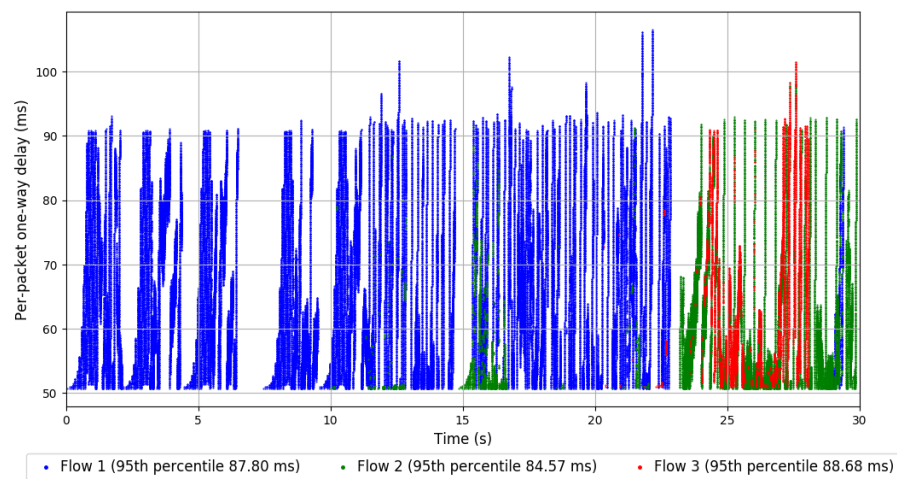
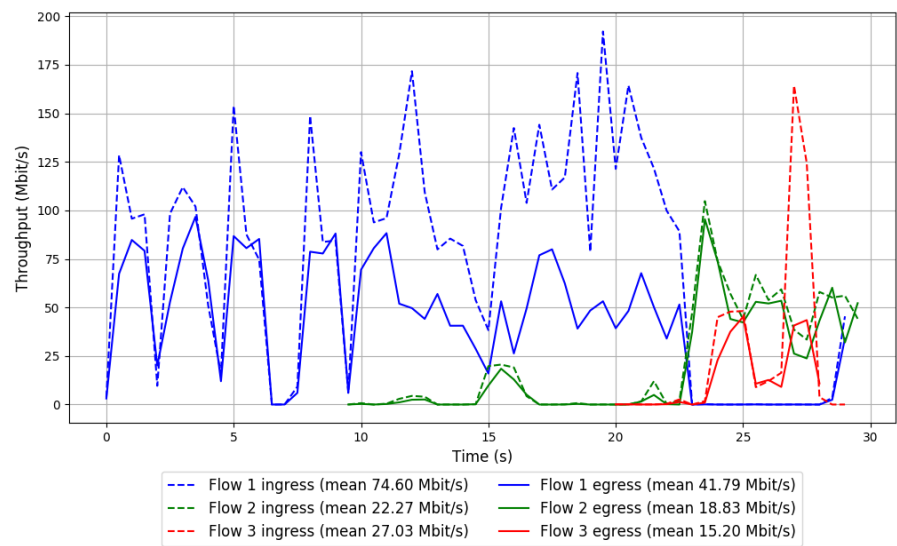
-- Flow 3:

Average throughput: 15.20 Mbit/s

95th percentile per-packet one-way delay: 88.680 ms

Loss rate: 50.48%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-18 10:02:25

End at: 2017-09-18 10:02:55

Local clock offset: 0.503 ms

Remote clock offset: -0.81 ms

Below is generated by plot.py at 2017-09-18 12:02:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 84.905 ms

Loss rate: 38.16%

-- Flow 1:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 85.111 ms

Loss rate: 39.78%

-- Flow 2:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 84.724 ms

Loss rate: 38.93%

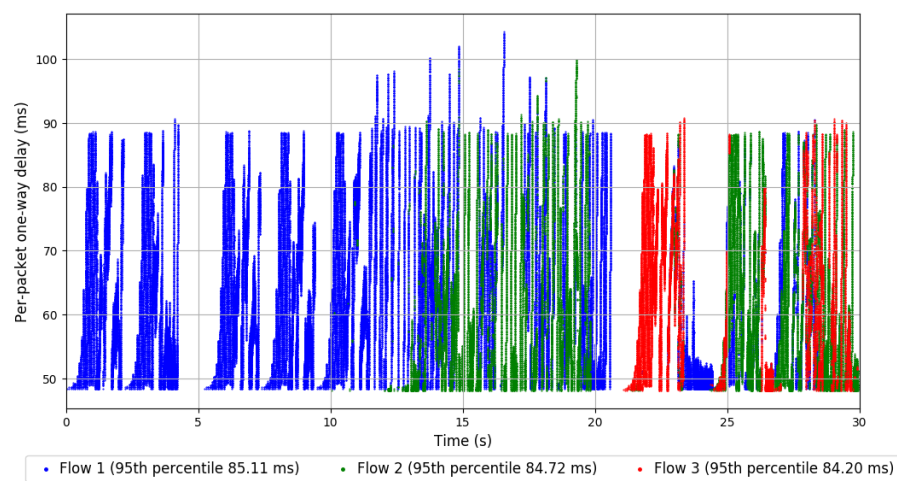
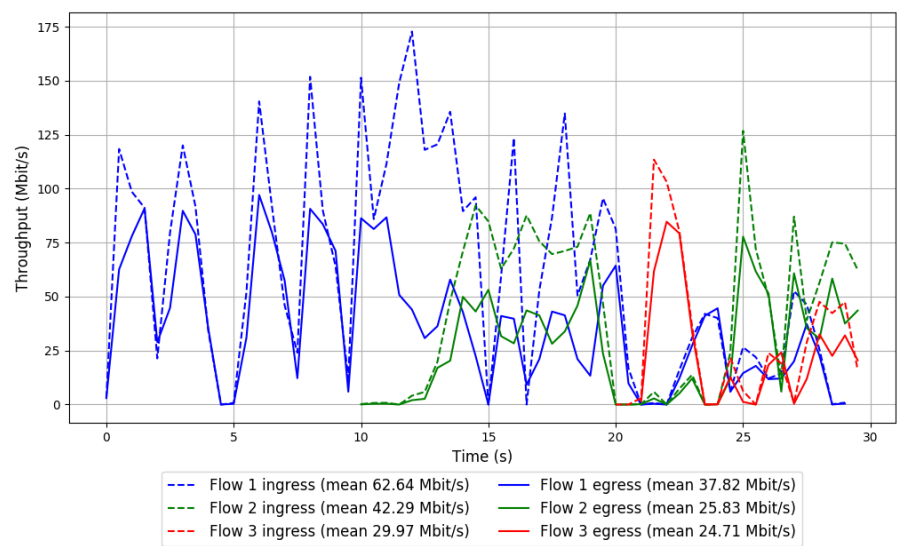
-- Flow 3:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 84.203 ms

Loss rate: 25.91%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-18 10:16:17

End at: 2017-09-18 10:16:47

Local clock offset: 0.548 ms

Remote clock offset: 1.64 ms

Below is generated by plot.py at 2017-09-18 12:02:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 86.356 ms

Loss rate: 27.24%

-- Flow 1:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 86.041 ms

Loss rate: 24.30%

-- Flow 2:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 87.128 ms

Loss rate: 33.41%

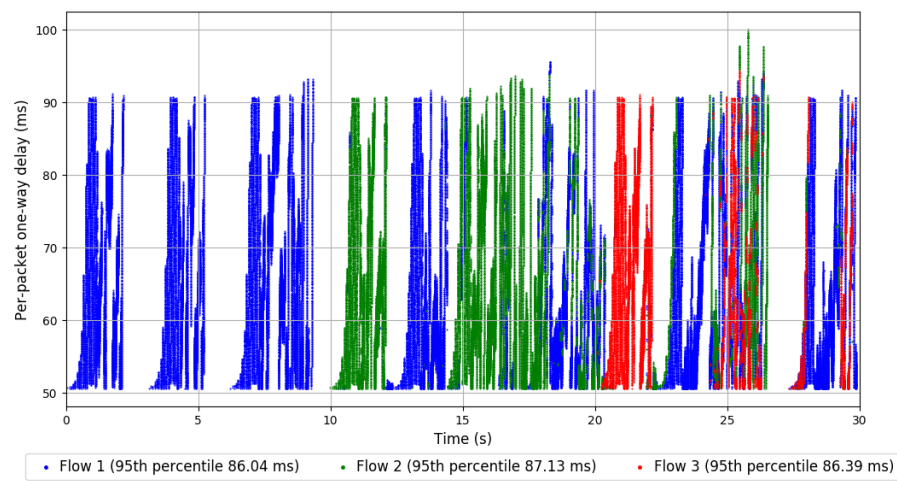
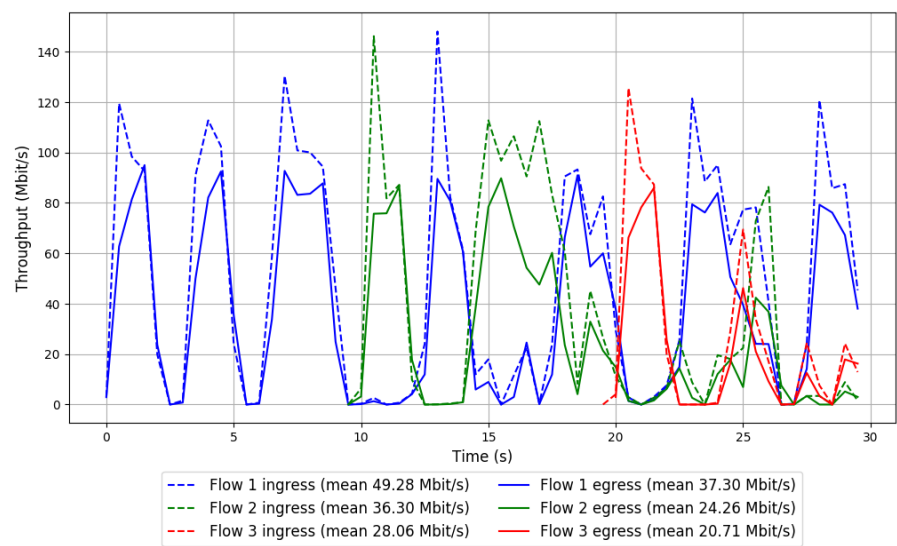
-- Flow 3:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 86.394 ms

Loss rate: 26.83%

Run 6: Report of Verus — Data Link

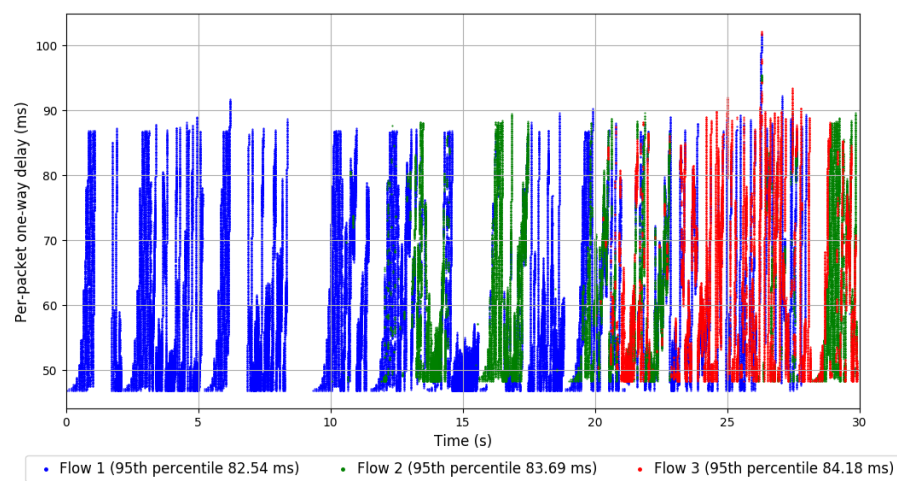
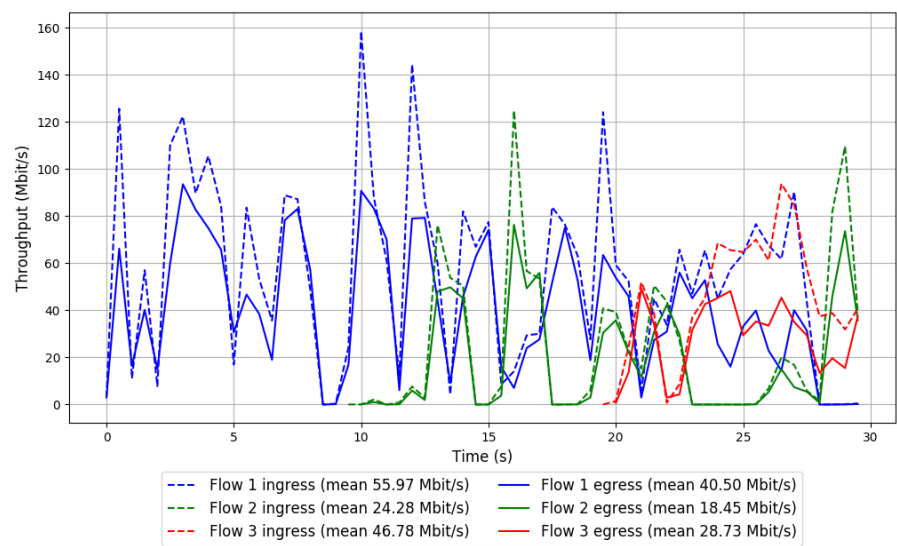


Run 7: Statistics of Verus

Start at: 2017-09-18 10:30:08
End at: 2017-09-18 10:30:38
Local clock offset: 0.399 ms
Remote clock offset: -0.867 ms

Below is generated by plot.py at 2017-09-18 12:02:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.08 Mbit/s
95th percentile per-packet one-way delay: 83.145 ms
Loss rate: 29.02%
-- Flow 1:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 82.536 ms
Loss rate: 27.81%
-- Flow 2:
Average throughput: 18.45 Mbit/s
95th percentile per-packet one-way delay: 83.691 ms
Loss rate: 24.00%
-- Flow 3:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 84.183 ms
Loss rate: 38.64%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-18 10:44:02

End at: 2017-09-18 10:44:32

Local clock offset: 0.467 ms

Remote clock offset: 1.277 ms

Below is generated by plot.py at 2017-09-18 12:02:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 85.510 ms

Loss rate: 23.41%

-- Flow 1:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 85.208 ms

Loss rate: 21.23%

-- Flow 2:

Average throughput: 19.31 Mbit/s

95th percentile per-packet one-way delay: 85.280 ms

Loss rate: 26.44%

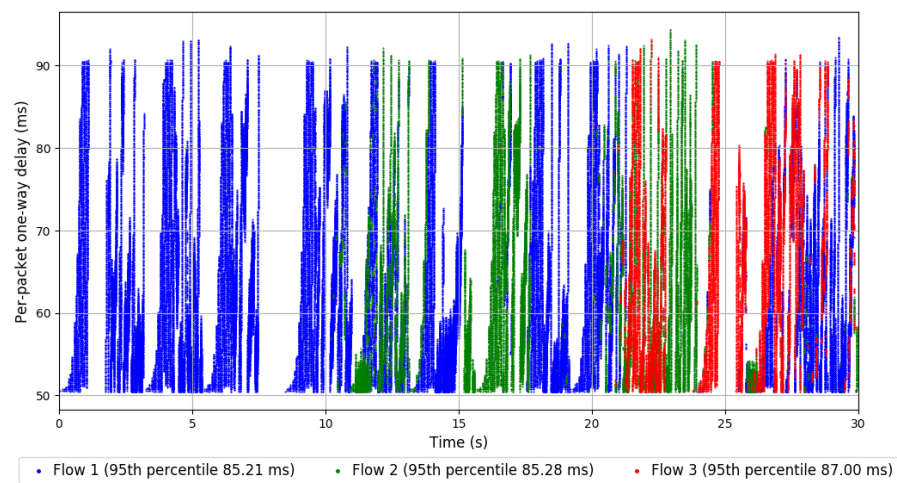
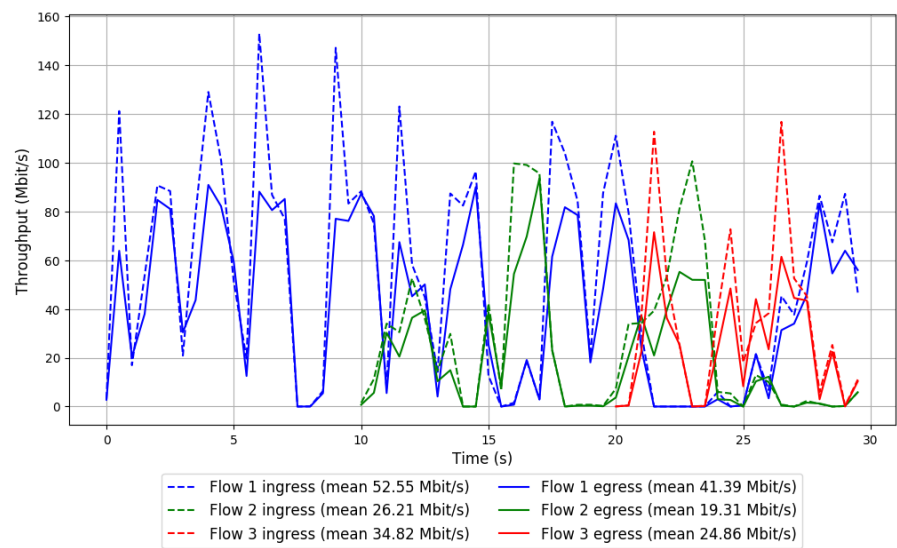
-- Flow 3:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 87.005 ms

Loss rate: 28.79%

Run 8: Report of Verus — Data Link

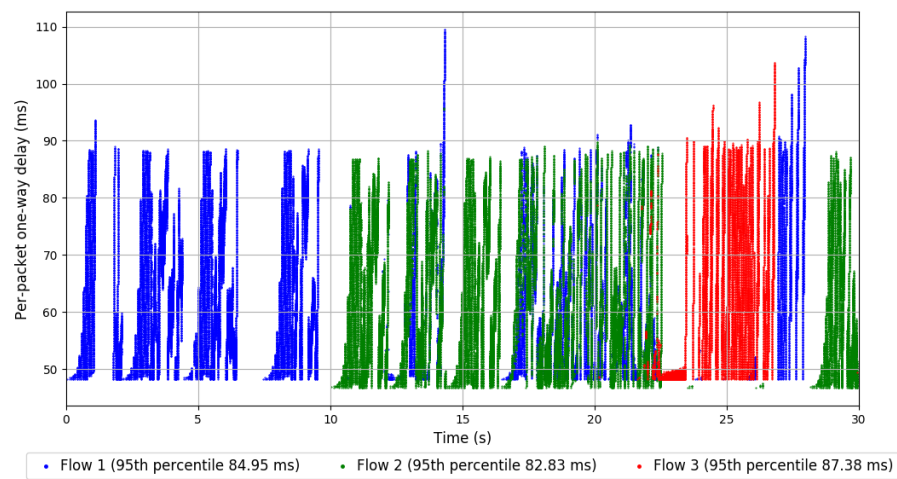
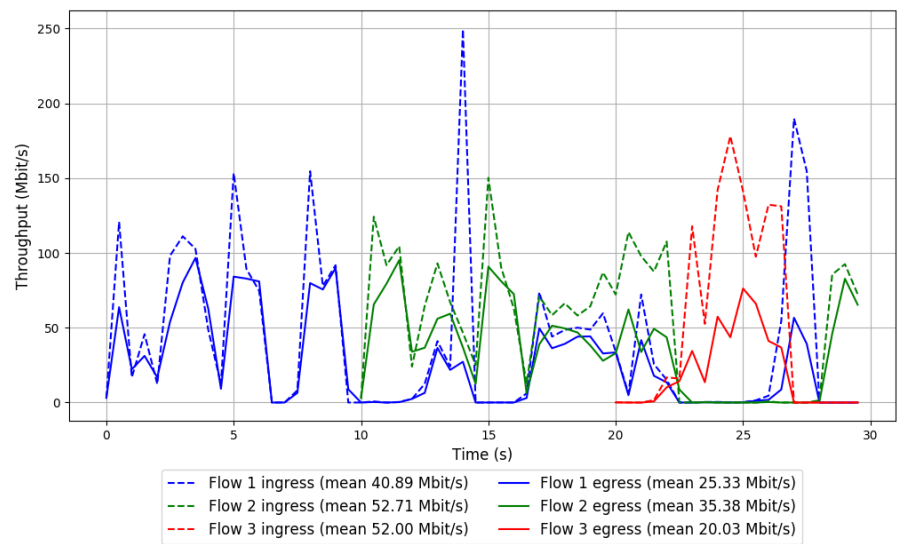


Run 9: Statistics of Verus

Start at: 2017-09-18 10:57:56
End at: 2017-09-18 10:58:26
Local clock offset: 0.384 ms
Remote clock offset: -0.782 ms

Below is generated by plot.py at 2017-09-18 12:02:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 84.455 ms
Loss rate: 40.45%
-- Flow 1:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 84.950 ms
Loss rate: 38.07%
-- Flow 2:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 82.831 ms
Loss rate: 32.86%
-- Flow 3:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 87.380 ms
Loss rate: 61.58%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 11:11:51
End at: 2017-09-18 11:12:21
Local clock offset: 0.351 ms
Remote clock offset: -0.836 ms

Below is generated by plot.py at 2017-09-18 12:02:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 84.139 ms
Loss rate: 31.32%
-- Flow 1:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 84.344 ms
Loss rate: 33.42%
-- Flow 2:
Average throughput: 16.22 Mbit/s
95th percentile per-packet one-way delay: 82.702 ms
Loss rate: 16.97%
-- Flow 3:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: 84.379 ms
Loss rate: 39.02%

Run 10: Report of Verus — Data Link

