

Pantheon Report

Generated at 2018-01-02 14:38:18 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

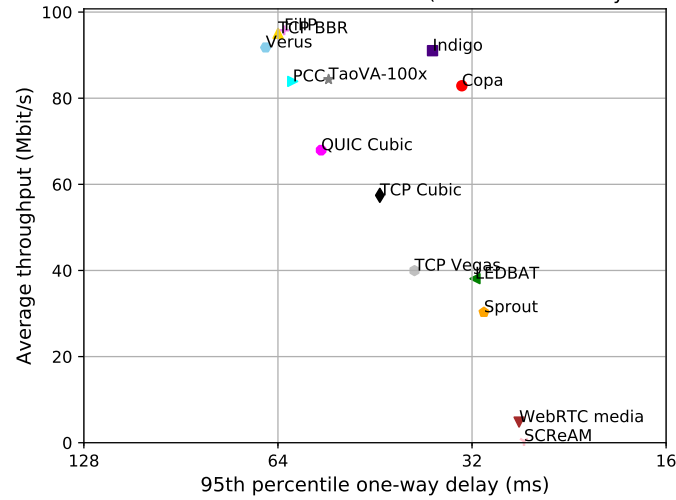
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

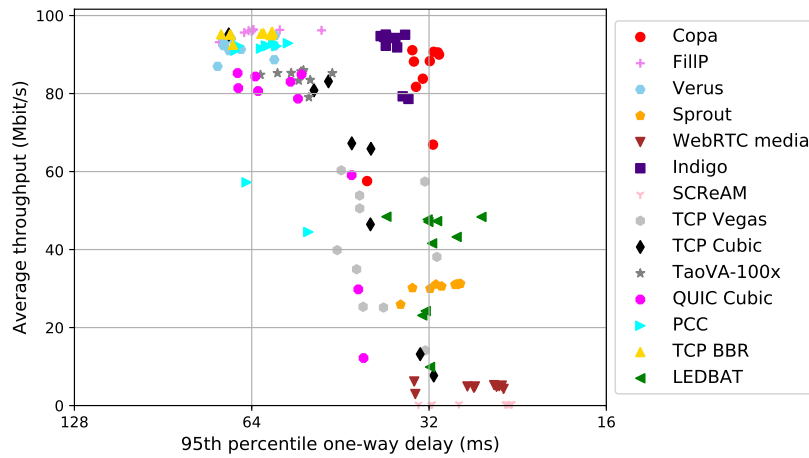
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
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 Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



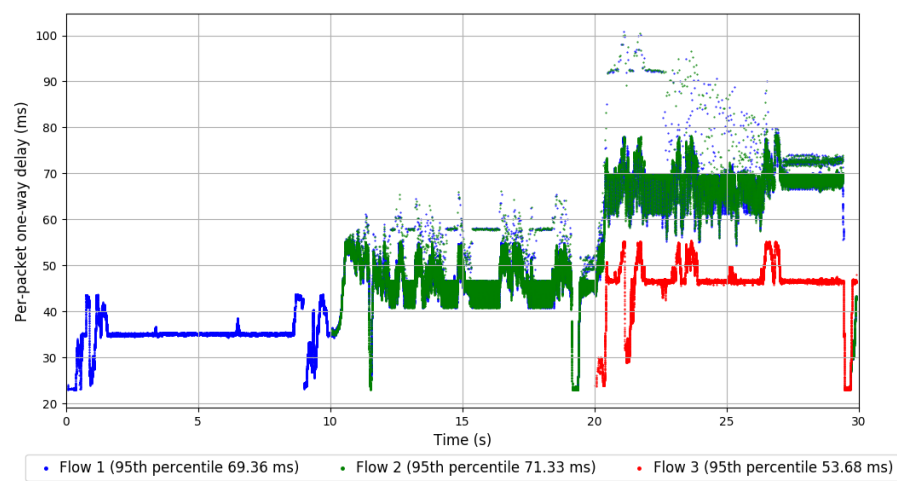
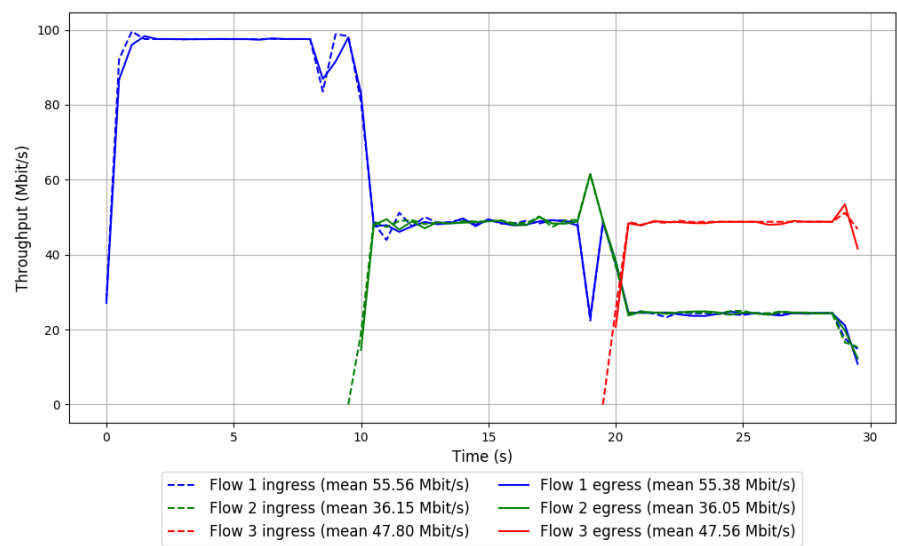
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	57.06	40.88	32.51	63.48	61.26	65.69	0.80	0.93	1.39
TCP Cubic	8	26.25	29.08	33.57	79.03	44.96	41.26	0.72	0.94	1.07
LEDBAT	10	20.35	18.86	15.67	30.25	33.56	32.74	0.65	0.87	1.31
PCC	10	51.66	31.92	33.48	58.08	59.28	54.23	1.06	1.05	2.25
QUIC Cubic	10	37.85	30.46	30.04	46.53	46.09	55.34	0.65	0.95	1.43
SCReAM	10	0.18	0.19	0.21	26.49	26.63	26.82	0.53	0.77	0.79
WebRTC media	10	2.43	1.71	0.66	26.62	27.08	27.65	0.44	0.71	1.28
Sprout	10	15.36	15.19	14.68	30.27	30.59	31.99	0.65	0.80	1.07
TaoVA-100x	10	49.83	40.73	29.55	52.67	53.40	57.68	1.05	1.27	1.71
TCP Vegas	10	19.83	19.84	20.92	36.50	38.58	42.36	0.78	0.80	1.21
Verus	10	57.40	38.45	26.84	56.65	66.31	68.40	0.92	1.06	1.63
Copa	10	54.70	31.97	27.06	32.03	35.53	37.62	0.77	1.02	1.41
FillP	8	59.40	40.60	30.19	57.17	60.96	64.19	1.06	2.00	4.10
Indigo	10	57.53	39.13	23.24	37.62	35.42	39.86	1.02	1.08	1.40

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 07:24:40
End at: 2018-01-02 07:25:10
Local clock offset: 0.118 ms
Remote clock offset: -0.738 ms

Below is generated by plot.py at 2018-01-02 14:20:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 69.495 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 69.357 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 71.329 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 47.56 Mbit/s
95th percentile per-packet one-way delay: 53.683 ms
Loss rate: 1.05%

Run 1: Report of TCP BBR — Data Link

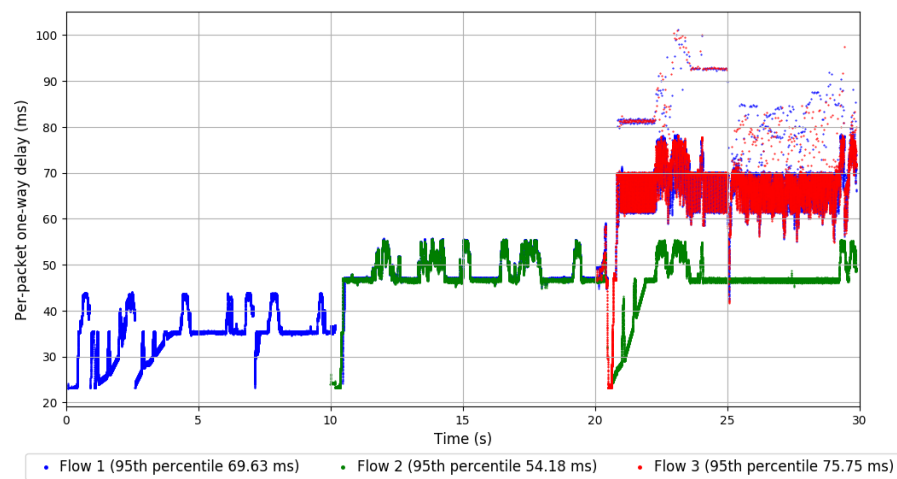
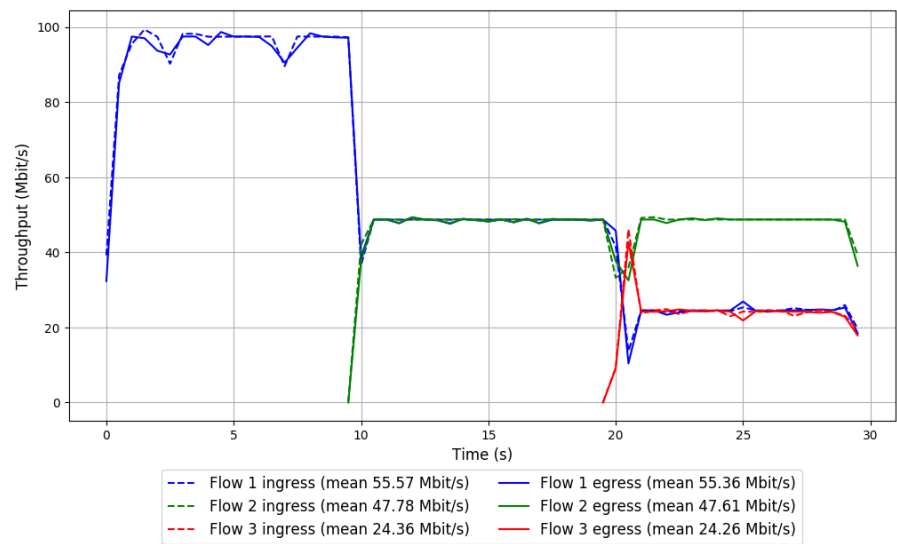


Run 2: Statistics of TCP BBR

Start at: 2018-01-02 07:45:24
End at: 2018-01-02 07:45:54
Local clock offset: 0.153 ms
Remote clock offset: -0.787 ms

Below is generated by plot.py at 2018-01-02 14:20:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 69.702 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 69.629 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 47.61 Mbit/s
95th percentile per-packet one-way delay: 54.182 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 75.746 ms
Loss rate: 1.12%

Run 2: Report of TCP BBR — Data Link

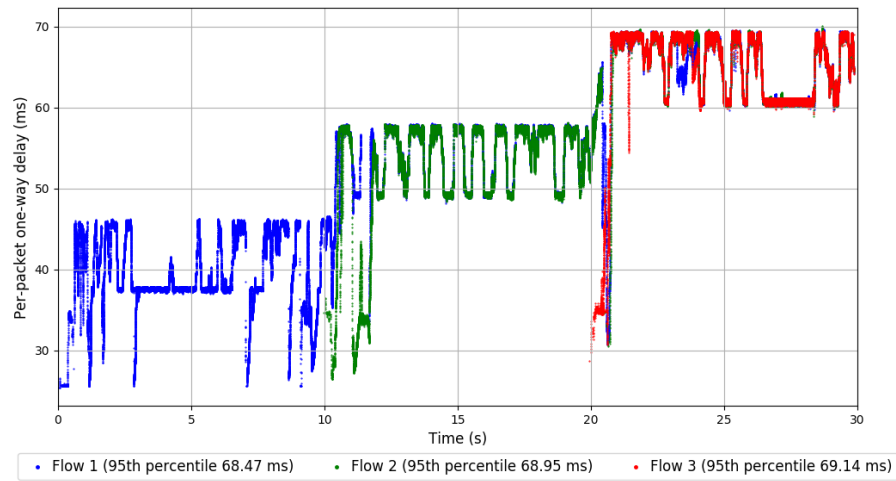
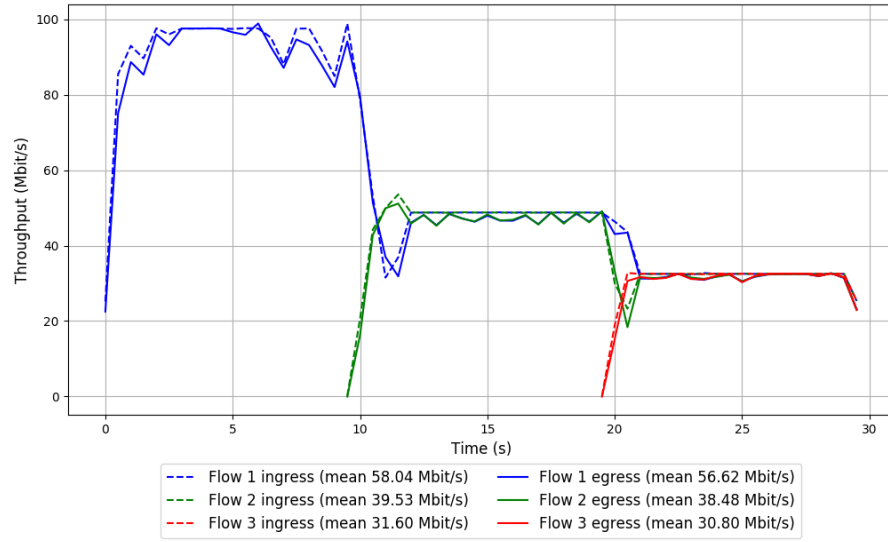


Run 3: Statistics of TCP BBR

Start at: 2018-01-02 08:07:53
End at: 2018-01-02 08:08:23
Local clock offset: 0.057 ms
Remote clock offset: -2.709 ms

Below is generated by plot.py at 2018-01-02 14:20:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.51 Mbit/s
95th percentile per-packet one-way delay: 68.895 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 68.469 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 68.953 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 69.139 ms
Loss rate: 3.10%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 08:31:21

End at: 2018-01-02 08:31:51

Local clock offset: 0.059 ms

Remote clock offset: 0.481 ms

Below is generated by plot.py at 2018-01-02 14:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 61.621 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 59.125 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 62.978 ms

Loss rate: 0.73%

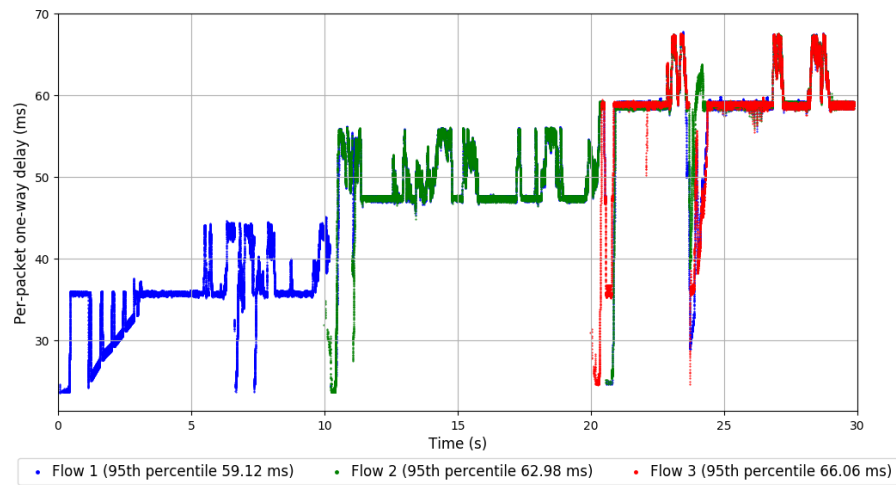
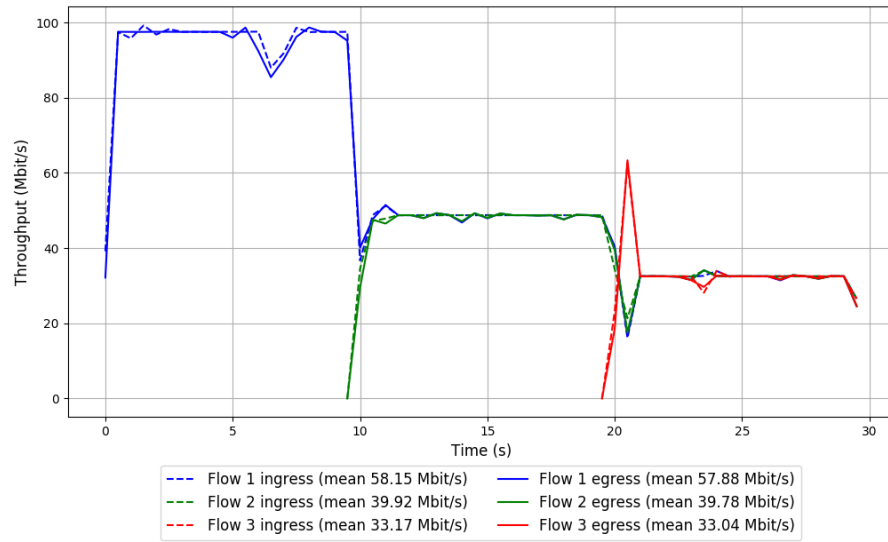
-- Flow 3:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 66.065 ms

Loss rate: 1.18%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 08:52:55

End at: 2018-01-02 08:53:25

Local clock offset: 0.207 ms

Remote clock offset: 1.188 ms

Below is generated by plot.py at 2018-01-02 14:20:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 59.217 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 59.127 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 62.366 ms

Loss rate: 0.68%

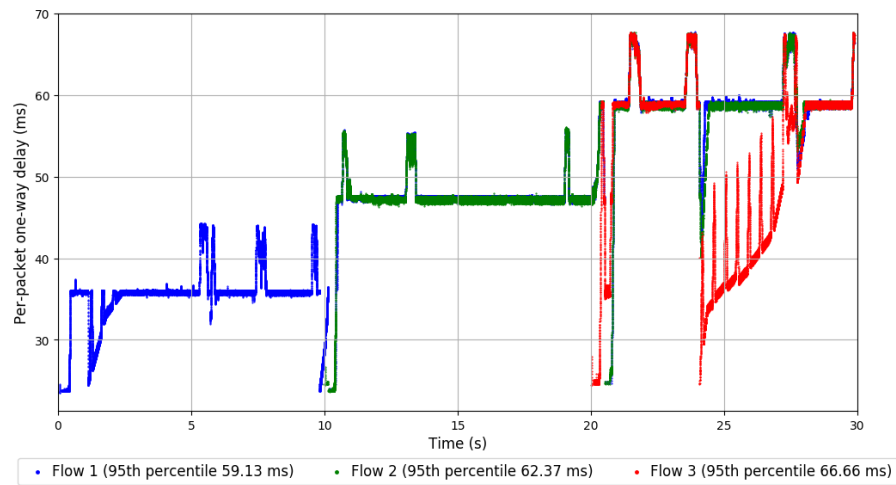
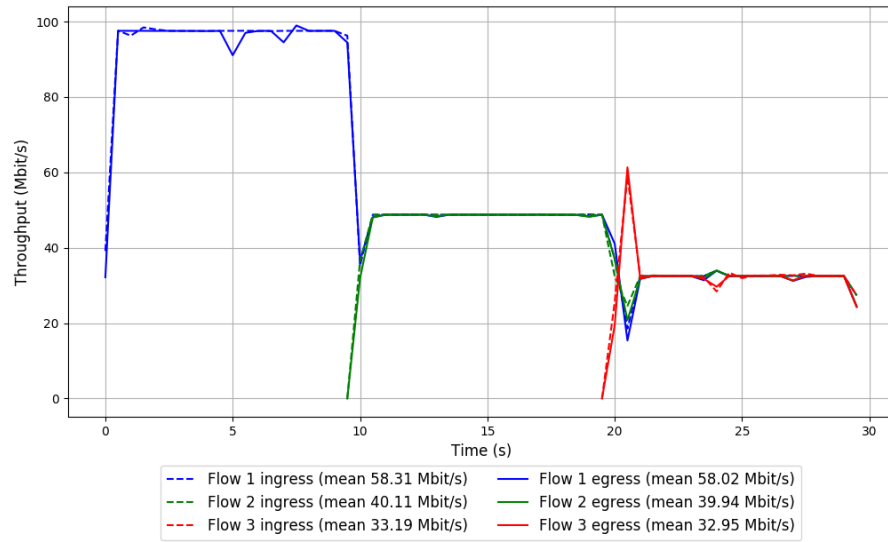
-- Flow 3:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 66.660 ms

Loss rate: 1.45%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 09:13:35

End at: 2018-01-02 09:14:05

Local clock offset: 0.254 ms

Remote clock offset: 2.502 ms

Below is generated by plot.py at 2018-01-02 14:20:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.98 Mbit/s

95th percentile per-packet one-way delay: 59.419 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 58.087 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 60.260 ms

Loss rate: 0.73%

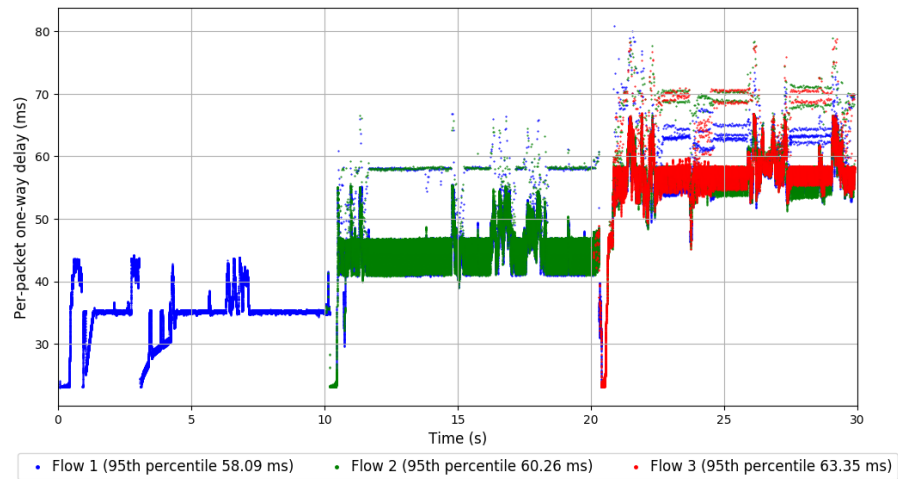
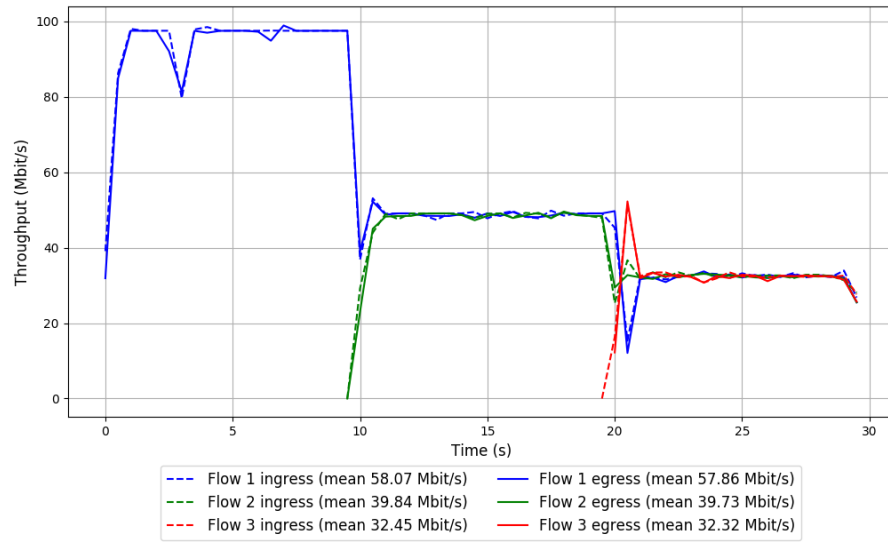
-- Flow 3:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 63.349 ms

Loss rate: 1.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 09:34:34

End at: 2018-01-02 09:35:04

Local clock offset: 0.36 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2018-01-02 14:20:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 61.127 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 61.042 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 61.142 ms

Loss rate: 0.72%

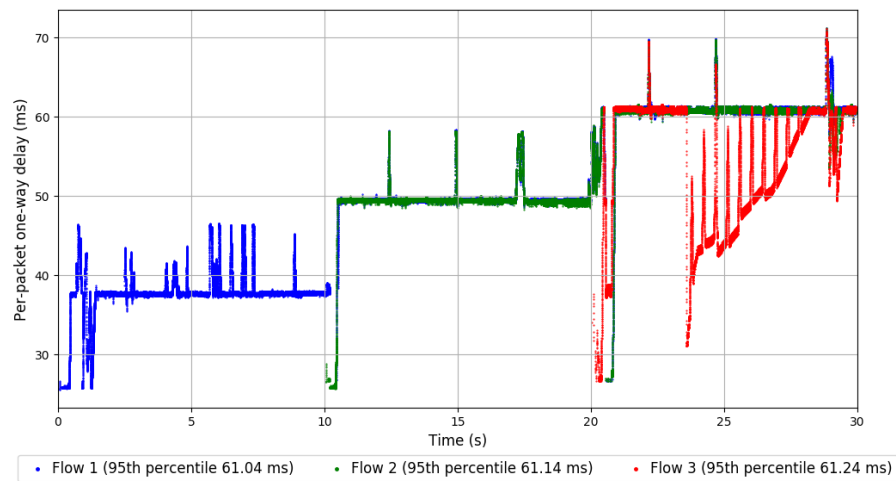
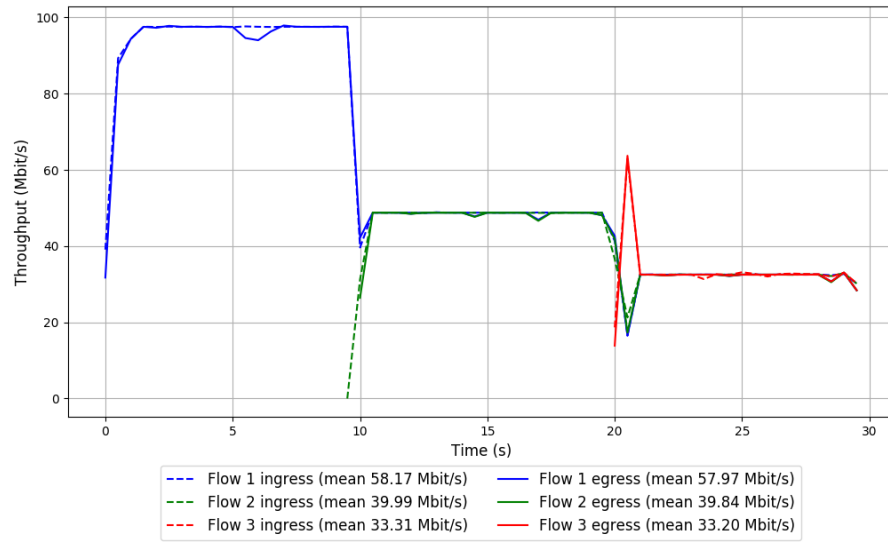
-- Flow 3:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: 61.237 ms

Loss rate: 1.13%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 09:55:08

End at: 2018-01-02 09:55:38

Local clock offset: 0.305 ms

Remote clock offset: 2.891 ms

Below is generated by plot.py at 2018-01-02 14:20:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 59.097 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 58.986 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 39.96 Mbit/s

95th percentile per-packet one-way delay: 59.143 ms

Loss rate: 0.78%

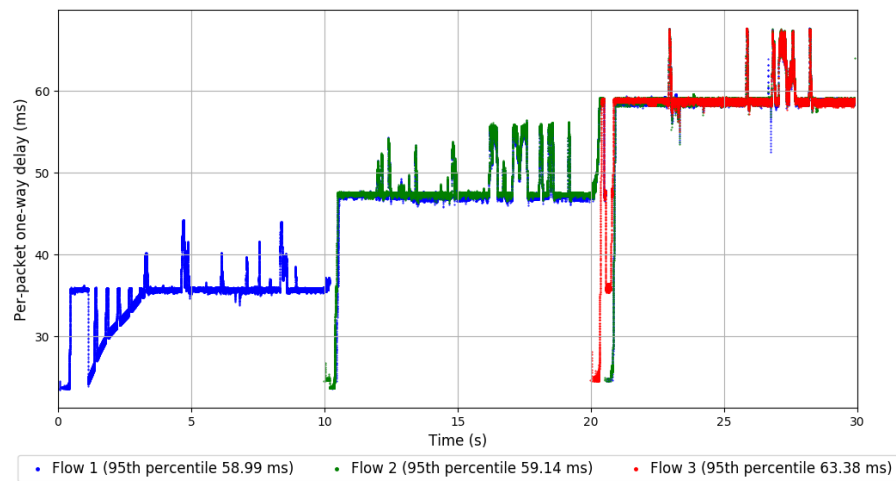
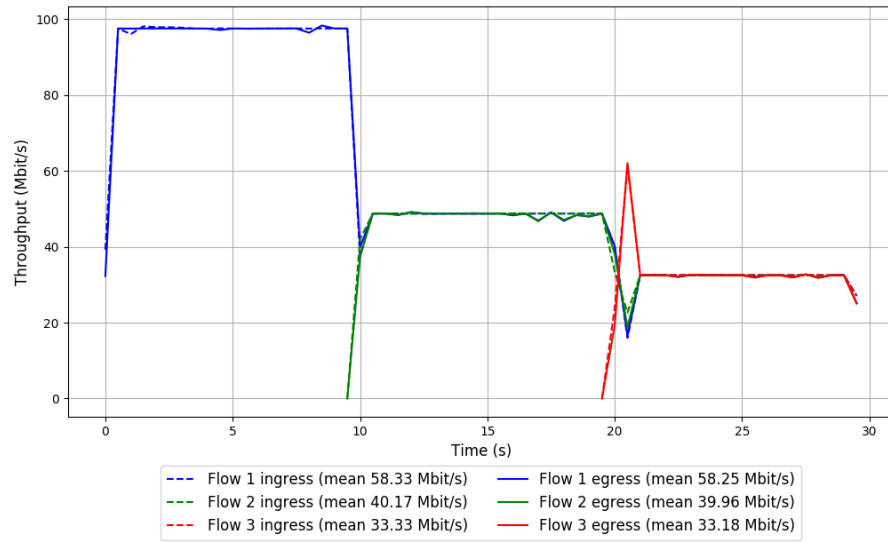
-- Flow 3:

Average throughput: 33.18 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 1.18%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 10:16:07

End at: 2018-01-02 10:16:37

Local clock offset: 0.526 ms

Remote clock offset: 0.527 ms

Below is generated by plot.py at 2018-01-02 14:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.21 Mbit/s

95th percentile per-packet one-way delay: 72.136 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 72.019 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 53.127 ms

Loss rate: 0.75%

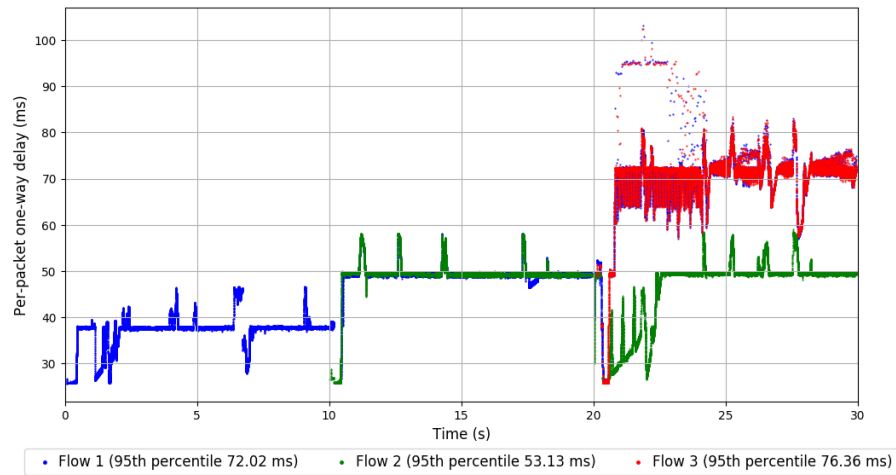
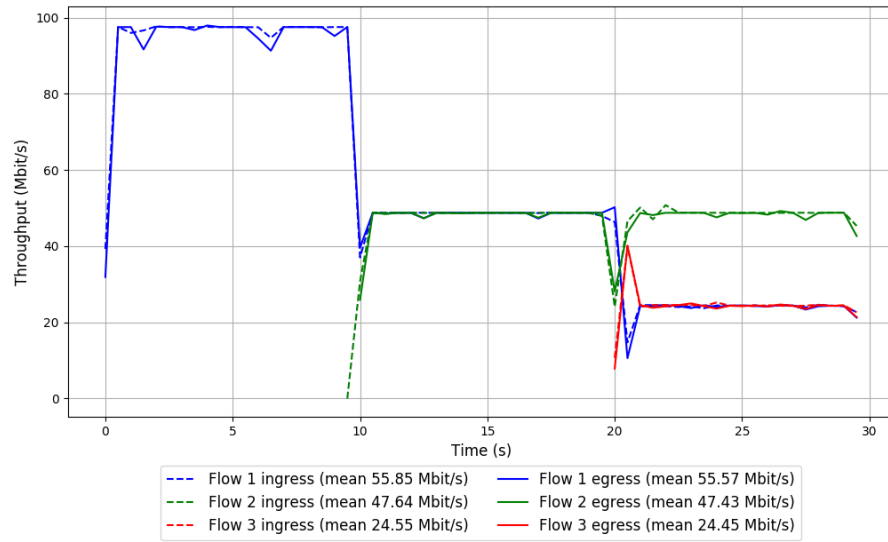
-- Flow 3:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 76.364 ms

Loss rate: 1.41%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 10:36:38

End at: 2018-01-02 10:37:08

Local clock offset: 0.651 ms

Remote clock offset: 2.082 ms

Below is generated by plot.py at 2018-01-02 14:22:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 59.085 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 58.975 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 59.118 ms

Loss rate: 0.66%

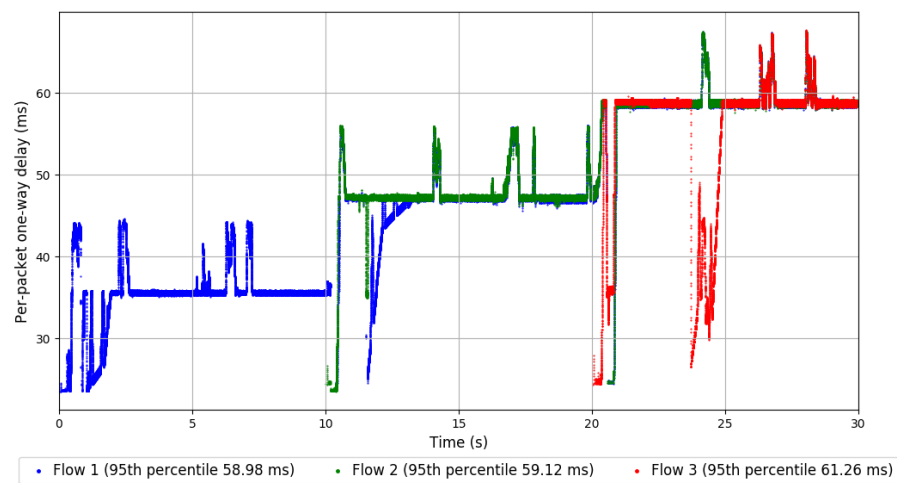
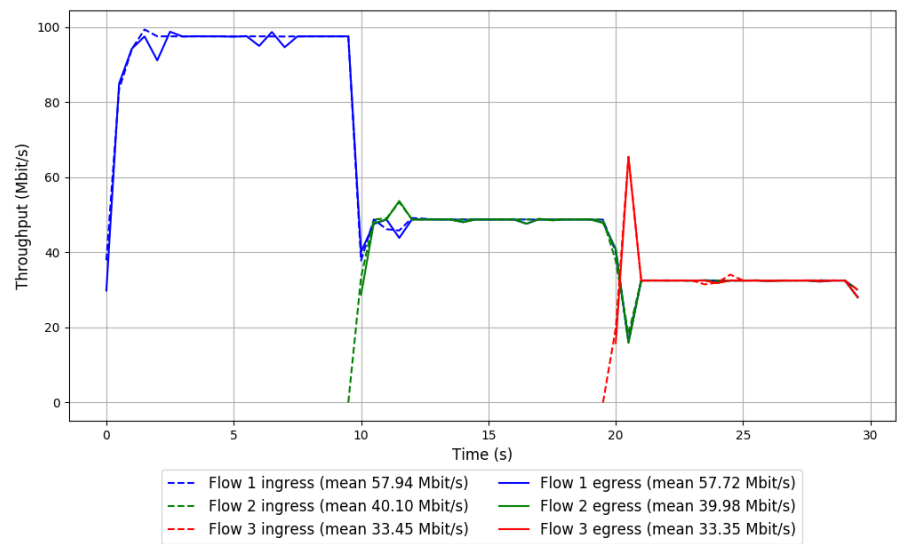
-- Flow 3:

Average throughput: 33.35 Mbit/s

95th percentile per-packet one-way delay: 61.261 ms

Loss rate: 1.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

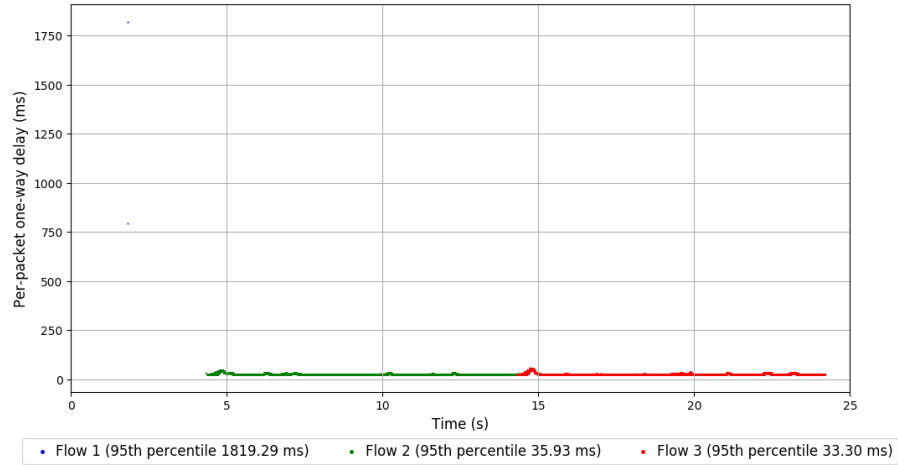
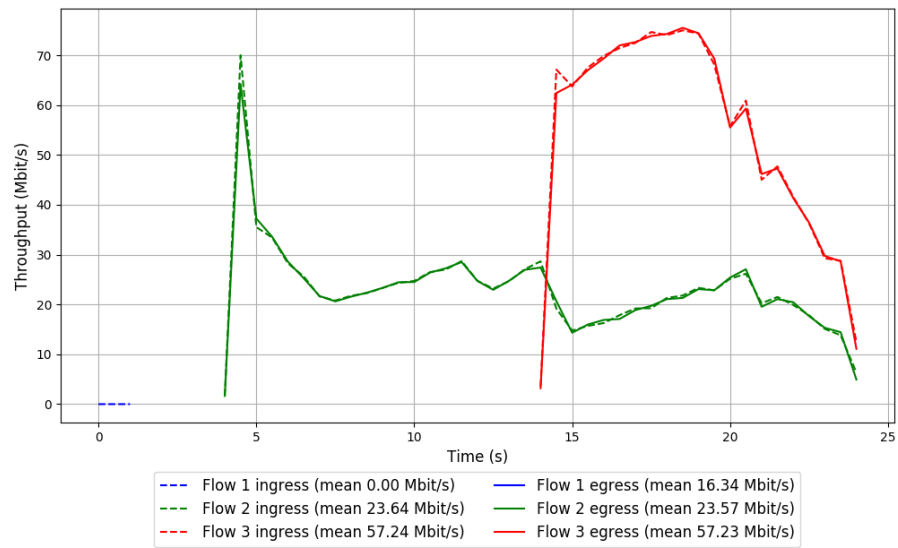
Start at: 2018-01-02 07:33:09

End at: 2018-01-02 07:33:39

Local clock offset: 0.108 ms

Remote clock offset: -3.326 ms

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 07:53:57

End at: 2018-01-02 07:54:27

Local clock offset: 0.112 ms

Remote clock offset: -0.69 ms

Below is generated by plot.py at 2018-01-02 14:22:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 31.417 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 337.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 31.374 ms

Loss rate: 1.30%

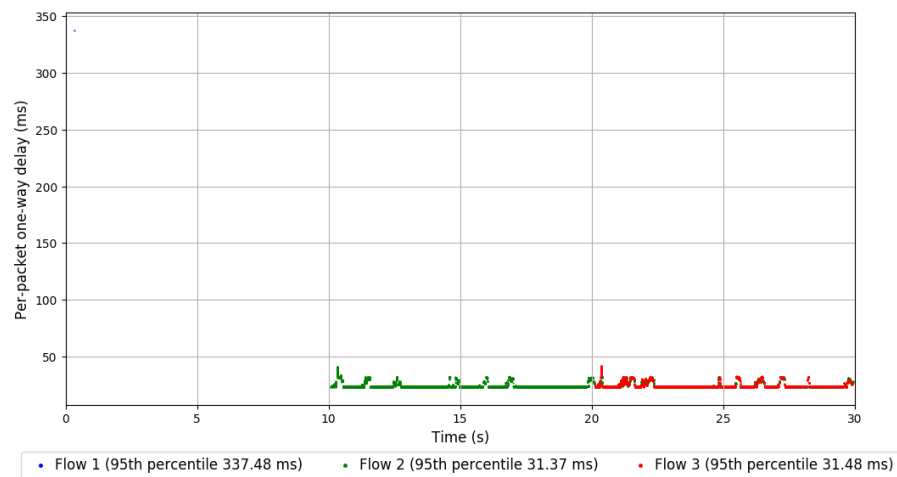
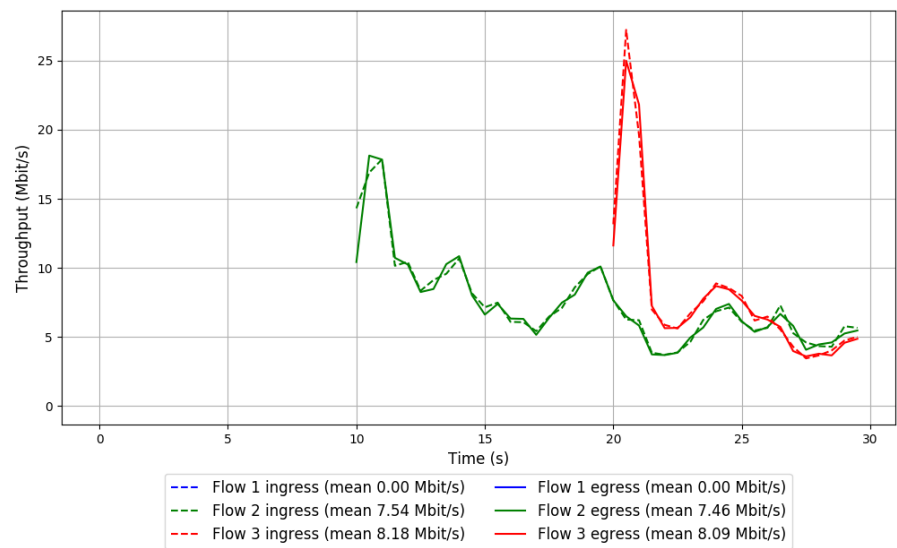
-- Flow 3:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 31.478 ms

Loss rate: 1.62%

Run 2: Report of TCP Cubic — Data Link

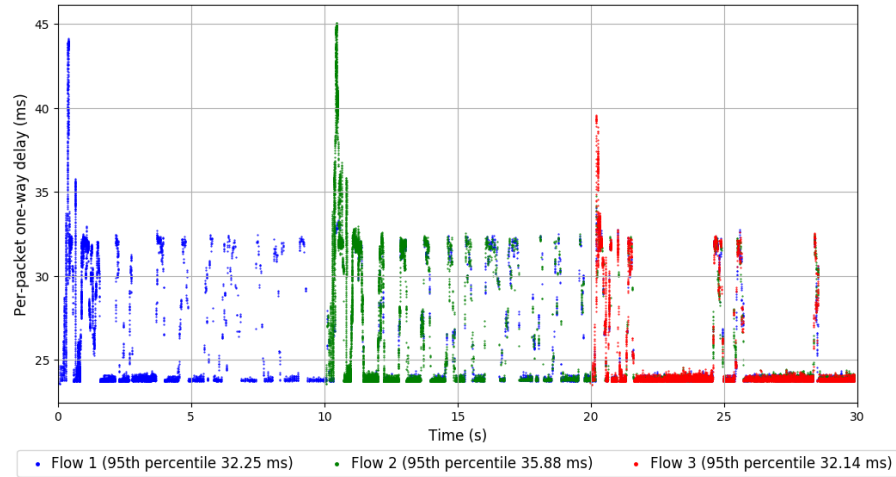
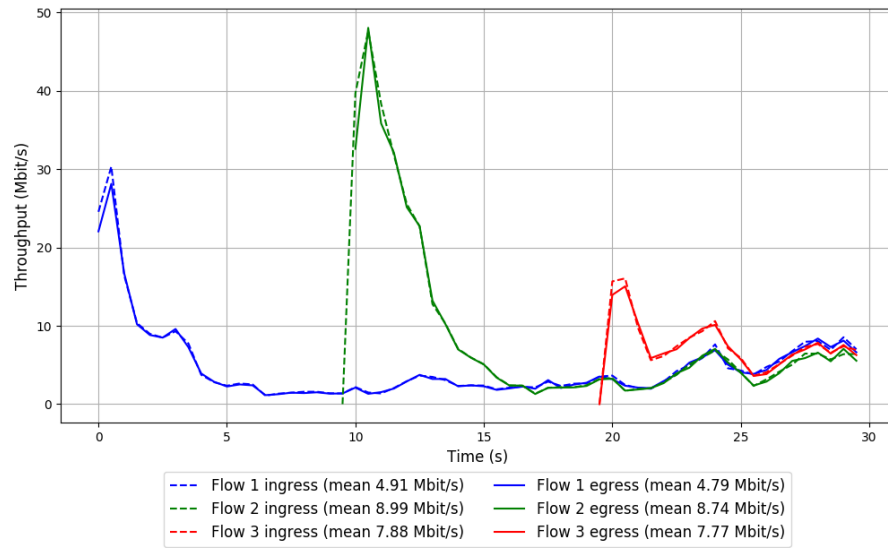


Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 08:17:28
End at: 2018-01-02 08:17:58
Local clock offset: 0.21 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2018-01-02 14:22:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 33.123 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 32.249 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 35.877 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 32.142 ms
Loss rate: 1.87%

Run 3: Report of TCP Cubic — Data Link

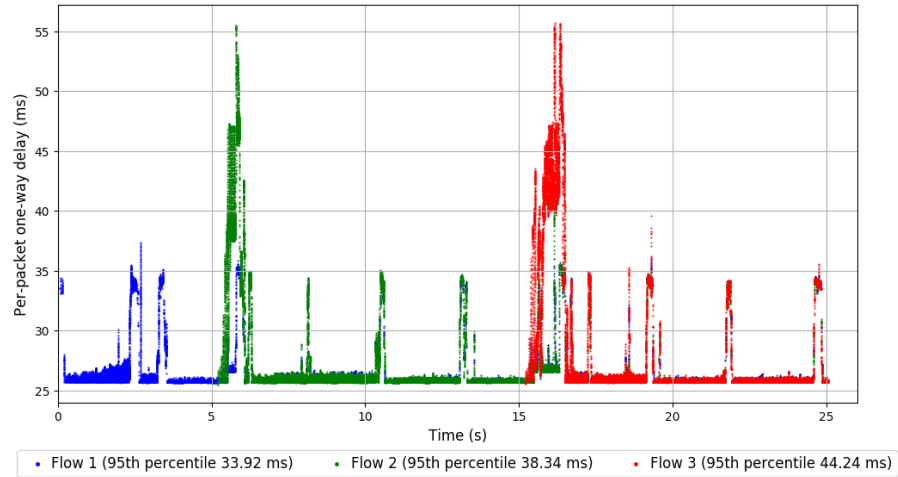
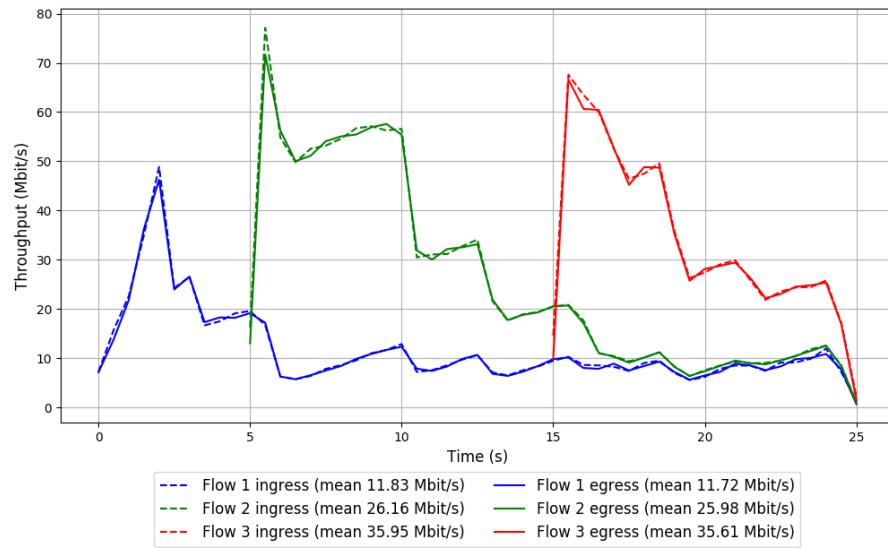


Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 08:39:58
End at: 2018-01-02 08:40:28
Local clock offset: 0.152 ms
Remote clock offset: -1.224 ms

Below is generated by plot.py at 2018-01-02 14:22:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.46 Mbit/s
95th percentile per-packet one-way delay: 40.235 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 33.917 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 25.98 Mbit/s
95th percentile per-packet one-way delay: 38.340 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 44.245 ms
Loss rate: 1.47%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 09:01:11

End at: 2018-01-02 09:01:41

Local clock offset: 0.255 ms

Remote clock offset: 1.613 ms

Below is generated by plot.py at 2018-01-02 14:22:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 47.411 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 47.384 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 25.20 Mbit/s

95th percentile per-packet one-way delay: 51.418 ms

Loss rate: 0.47%

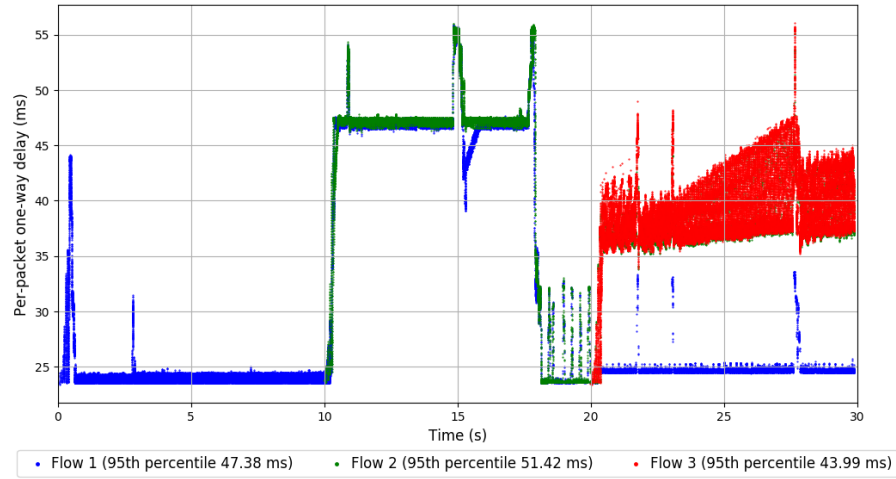
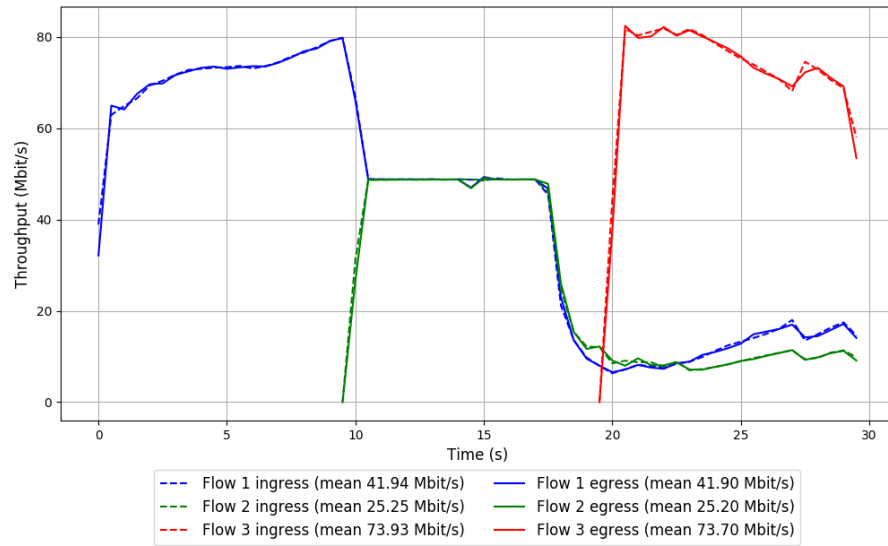
-- Flow 3:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 43.990 ms

Loss rate: 0.84%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 09:21:47

End at: 2018-01-02 09:22:17

Local clock offset: 0.267 ms

Remote clock offset: 2.276 ms

Below is generated by plot.py at 2018-01-02 14:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 70.019 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 56.46 Mbit/s

95th percentile per-packet one-way delay: 69.917 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 36.40 Mbit/s

95th percentile per-packet one-way delay: 70.298 ms

Loss rate: 0.30%

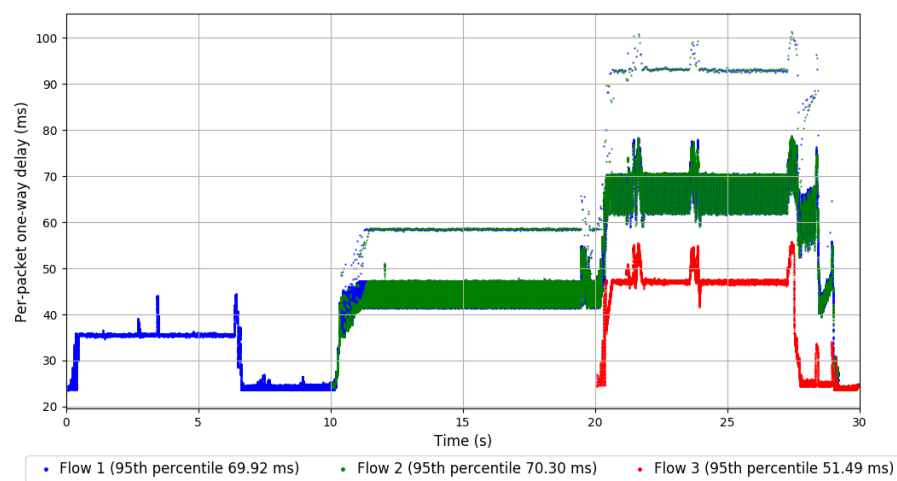
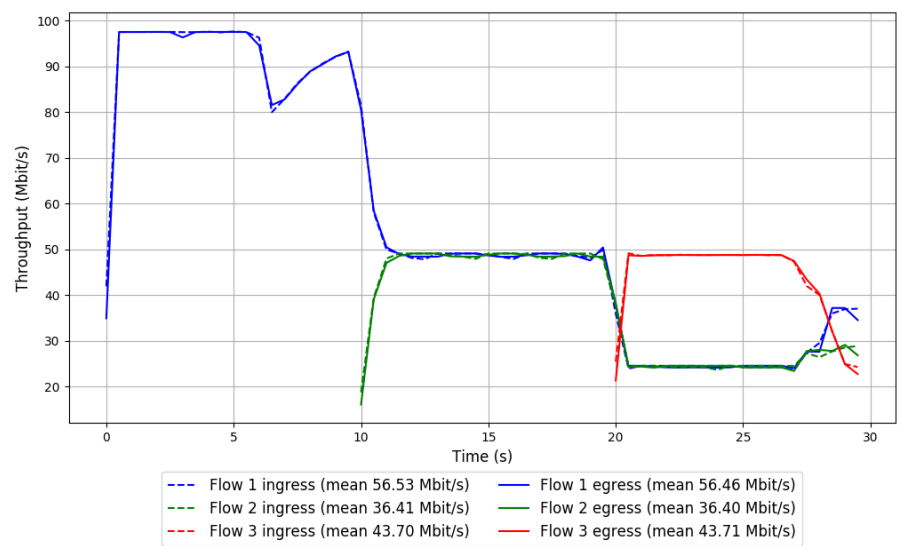
-- Flow 3:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 51.492 ms

Loss rate: 0.51%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 09:42:55

End at: 2018-01-02 09:43:25

Local clock offset: 0.271 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2018-01-02 14:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 40.158 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 31.269 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 40.919 ms

Loss rate: 0.42%

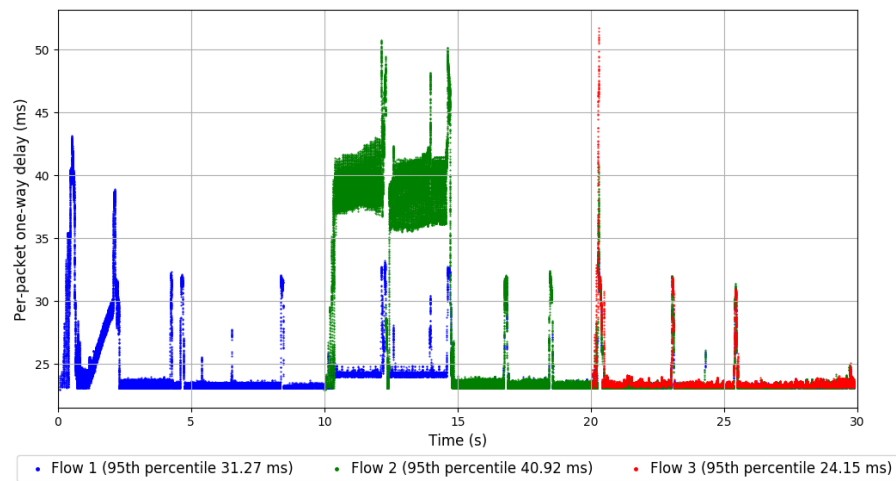
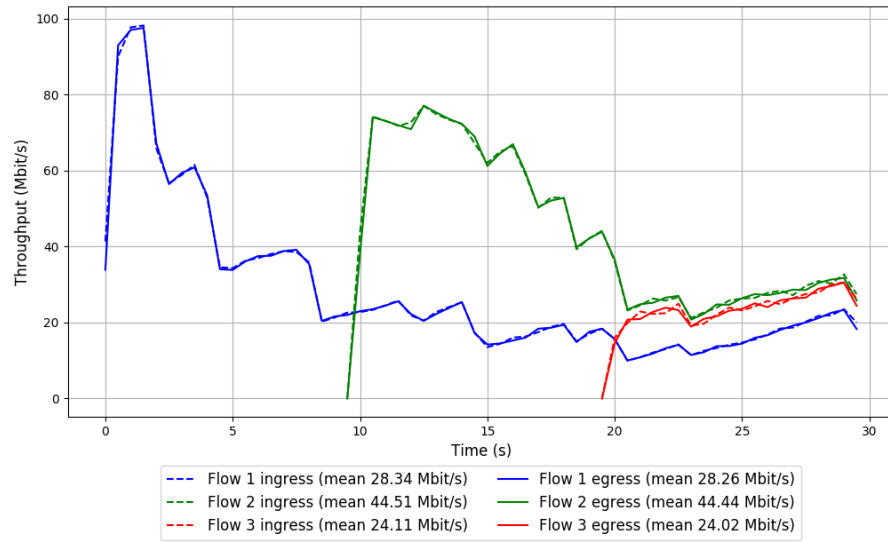
-- Flow 3:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 24.148 ms

Loss rate: 0.89%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

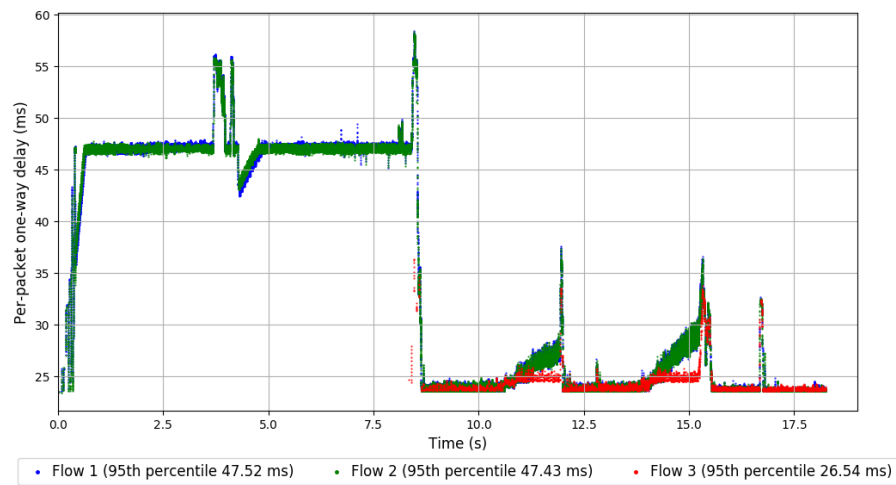
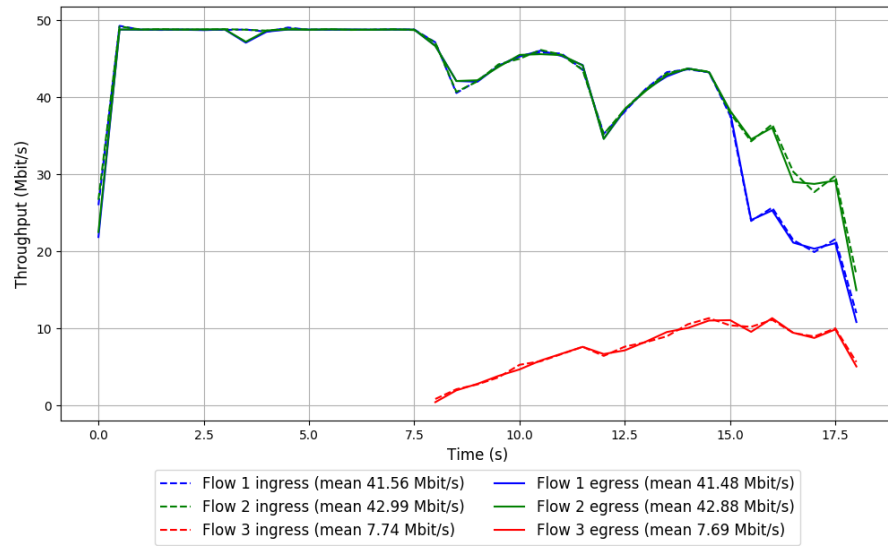
Start at: 2018-01-02 10:03:33

End at: 2018-01-02 10:04:03

Local clock offset: 0.383 ms

Remote clock offset: 2.792 ms

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 10:24:19

End at: 2018-01-02 10:24:49

Local clock offset: 0.558 ms

Remote clock offset: 2.945 ms

Below is generated by plot.py at 2018-01-02 14:22:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 50.175 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 43.287 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 45.75 Mbit/s

95th percentile per-packet one-way delay: 47.041 ms

Loss rate: 0.49%

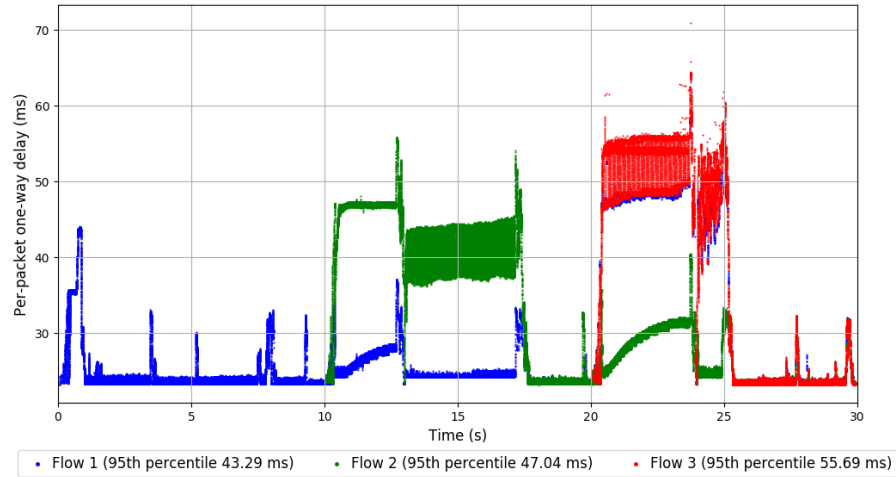
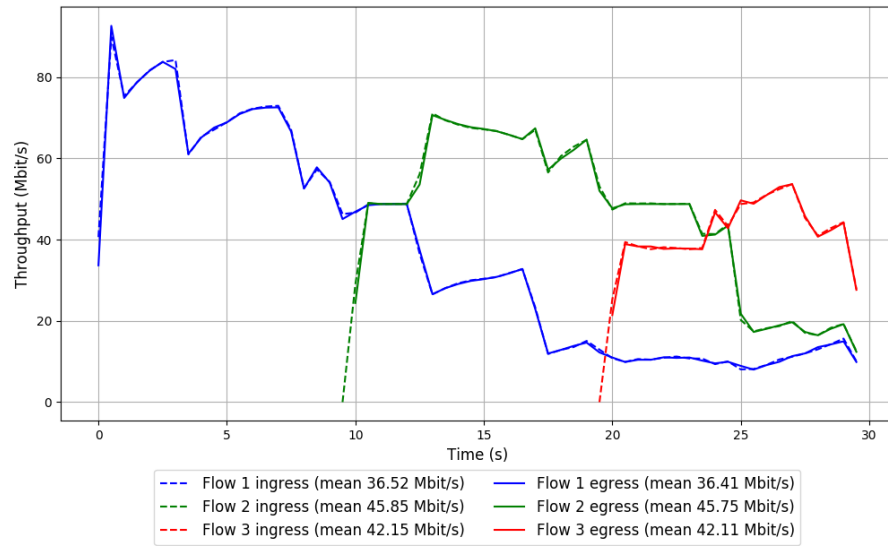
-- Flow 3:

Average throughput: 42.11 Mbit/s

95th percentile per-packet one-way delay: 55.690 ms

Loss rate: 0.63%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 10:44:54

End at: 2018-01-02 10:45:24

Local clock offset: 0.653 ms

Remote clock offset: 1.307 ms

Below is generated by plot.py at 2018-01-02 14:22:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.23 Mbit/s

95th percentile per-packet one-way delay: 43.281 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 30.43 Mbit/s

95th percentile per-packet one-way delay: 36.758 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 38.66 Mbit/s

95th percentile per-packet one-way delay: 44.429 ms

Loss rate: 0.57%

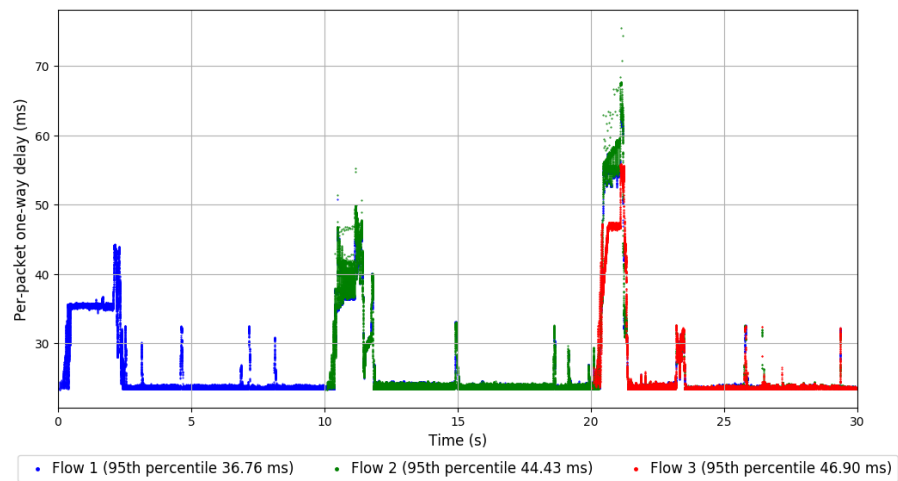
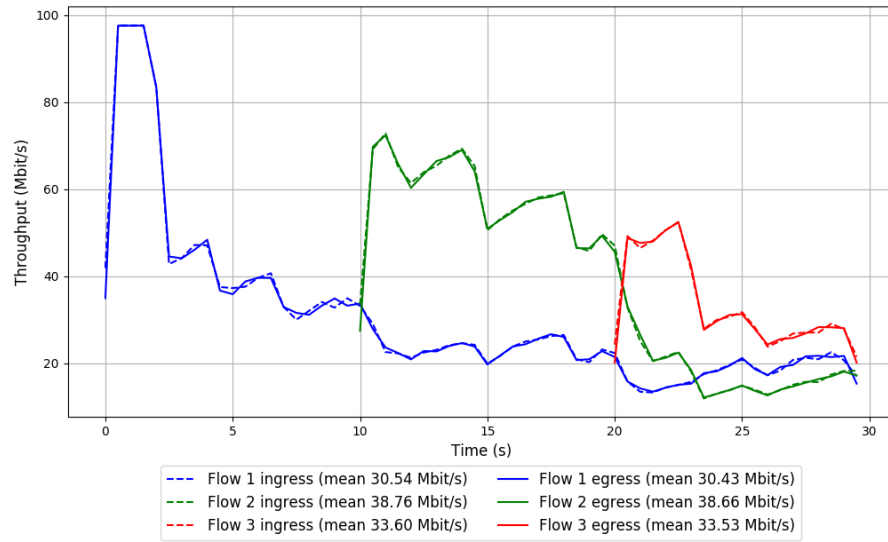
-- Flow 3:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 46.895 ms

Loss rate: 0.74%

Run 10: Report of TCP Cubic — Data Link

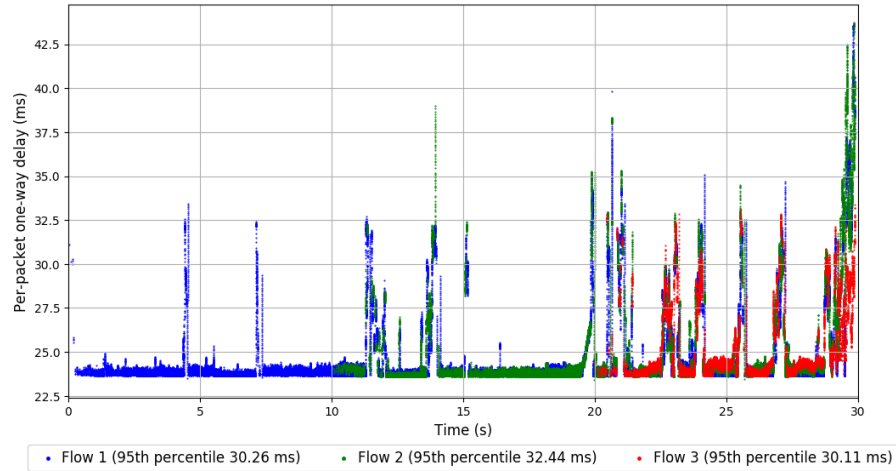
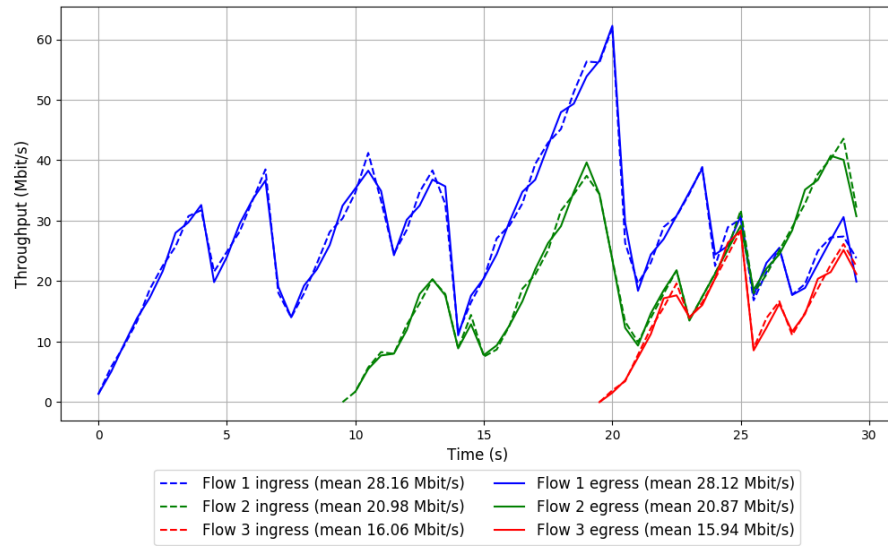


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 07:16:16
End at: 2018-01-02 07:16:46
Local clock offset: 0.068 ms
Remote clock offset: -1.282 ms

# Below is generated by plot.py at 2018-01-02 14:22:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.30 Mbit/s
95th percentile per-packet one-way delay: 31.009 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 30.258 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 32.439 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 30.108 ms
Loss rate: 1.33%
```


Run 1: Report of LEDBAT — Data Link

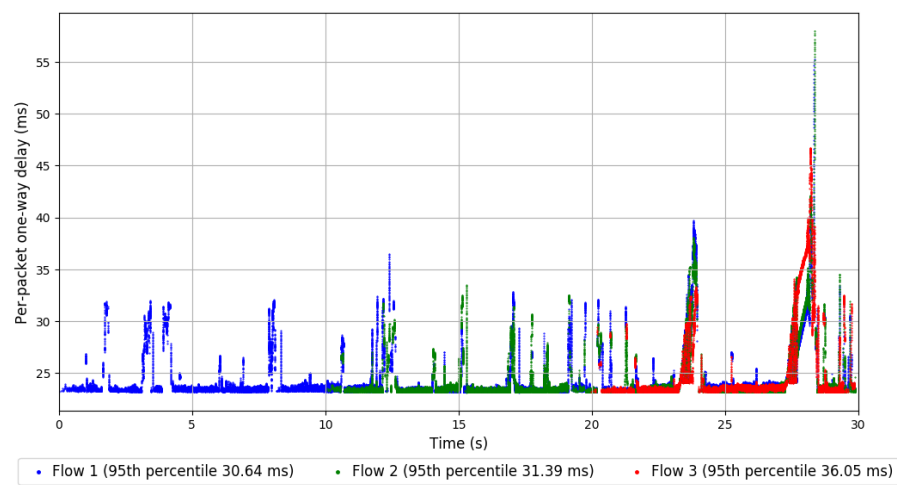
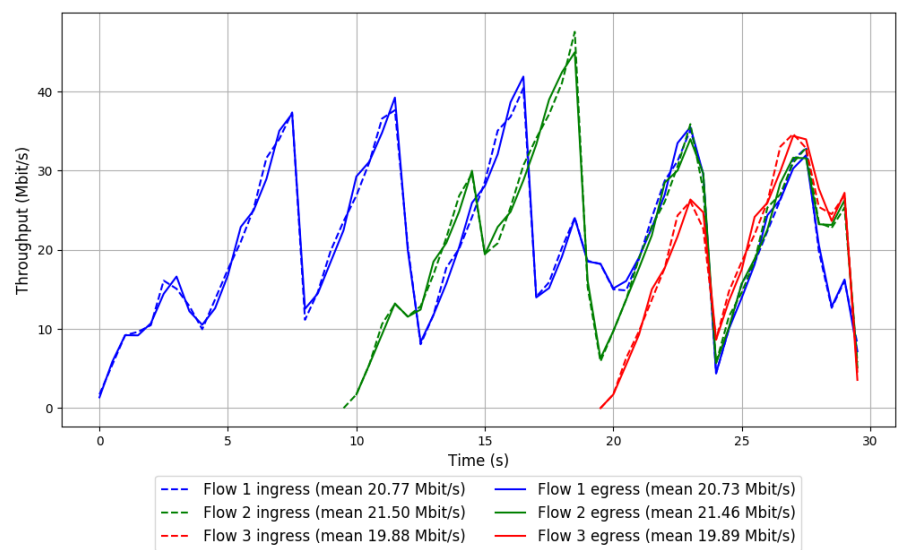


Run 2: Statistics of LEDBAT

Start at: 2018-01-02 07:37:05
End at: 2018-01-02 07:37:35
Local clock offset: 0.202 ms
Remote clock offset: -0.741 ms

Below is generated by plot.py at 2018-01-02 14:22:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.59 Mbit/s
95th percentile per-packet one-way delay: 31.617 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 30.637 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 21.46 Mbit/s
95th percentile per-packet one-way delay: 31.391 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 36.053 ms
Loss rate: 0.49%

Run 2: Report of LEDBAT — Data Link

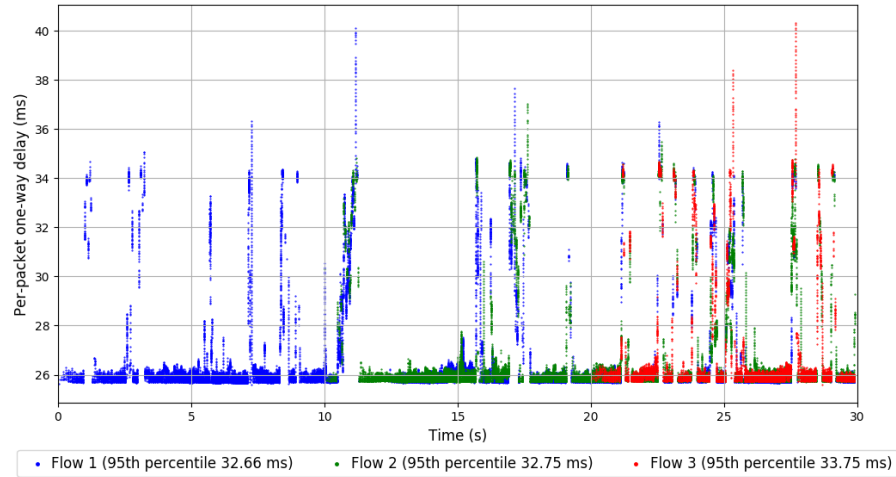
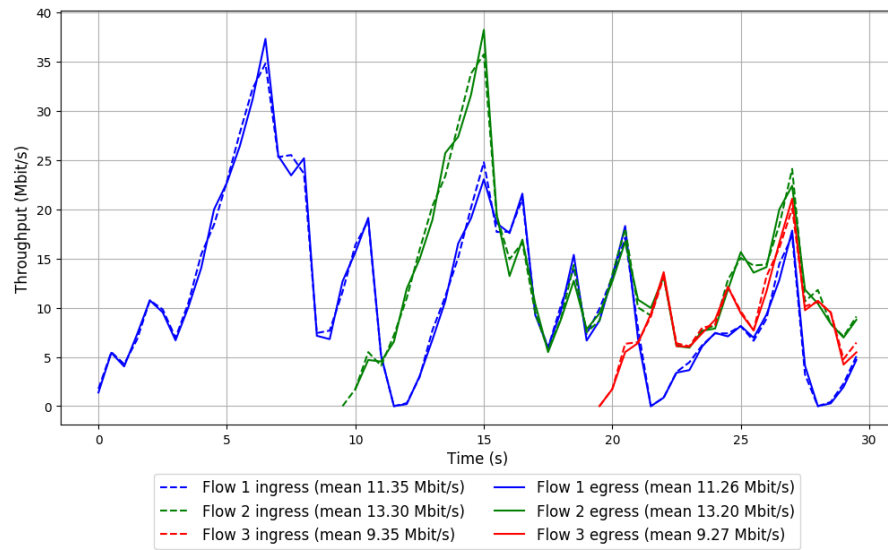


Run 3: Statistics of LEDBAT

Start at: 2018-01-02 07:57:54
End at: 2018-01-02 07:58:24
Local clock offset: 0.029 ms
Remote clock offset: -3.161 ms

Below is generated by plot.py at 2018-01-02 14:22:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 32.861 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 32.655 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 32.749 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 33.748 ms
Loss rate: 1.40%

Run 3: Report of LEDBAT — Data Link

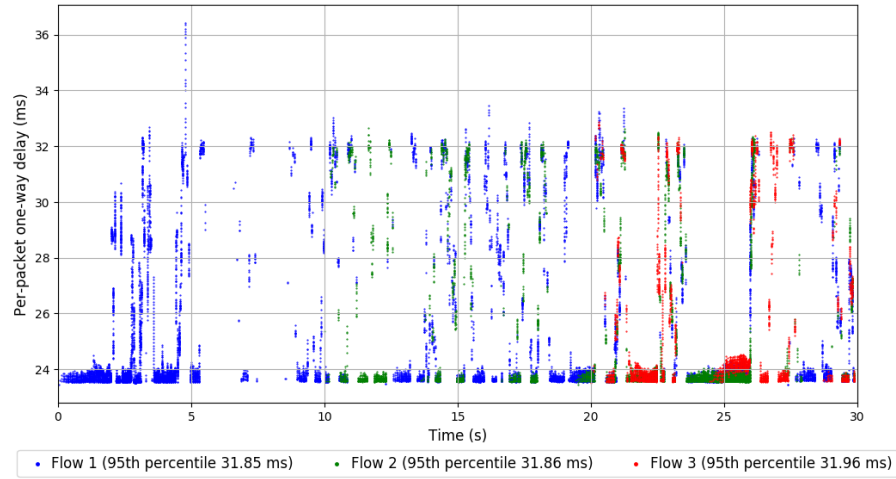
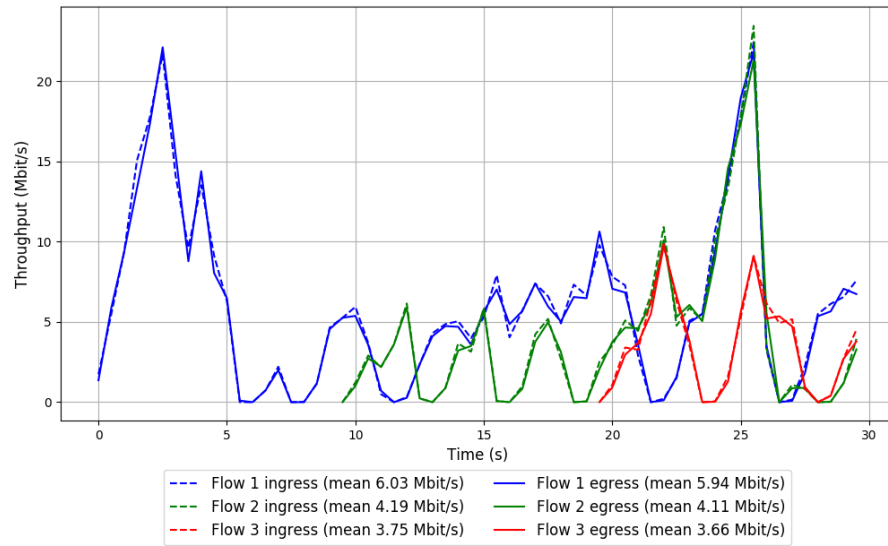


Run 4: Statistics of LEDBAT

Start at: 2018-01-02 08:21:26
End at: 2018-01-02 08:21:56
Local clock offset: 0.117 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-01-02 14:22:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 31.878 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 31.848 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 31.860 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 31.962 ms
Loss rate: 2.90%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 08:43:54

End at: 2018-01-02 08:44:24

Local clock offset: 0.108 ms

Remote clock offset: 0.857 ms

Below is generated by plot.py at 2018-01-02 14:22:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.25 Mbit/s

95th percentile per-packet one-way delay: 32.425 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 30.208 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 47.633 ms

Loss rate: 0.74%

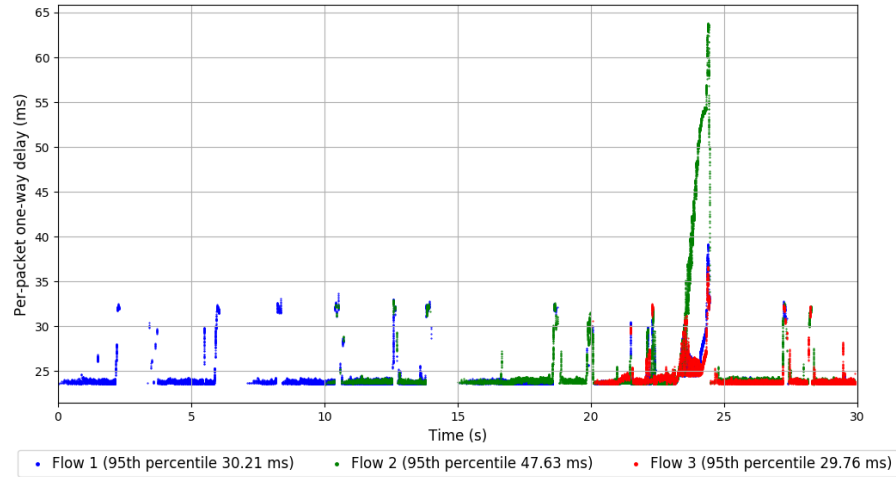
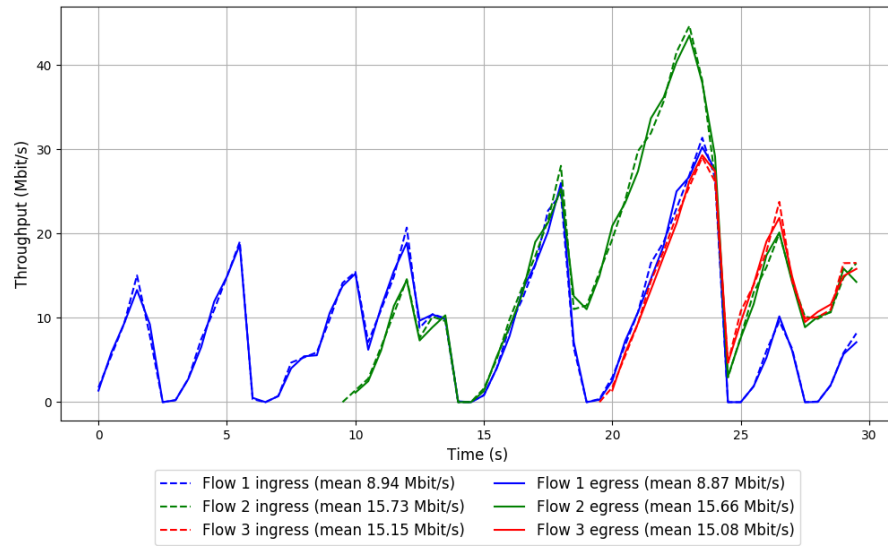
-- Flow 3:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 29.756 ms

Loss rate: 1.08%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 09:05:07

End at: 2018-01-02 09:05:37

Local clock offset: 0.351 ms

Remote clock offset: 1.879 ms

Below is generated by plot.py at 2018-01-02 14:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 37.806 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 24.18 Mbit/s

95th percentile per-packet one-way delay: 36.472 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 40.206 ms

Loss rate: 0.48%

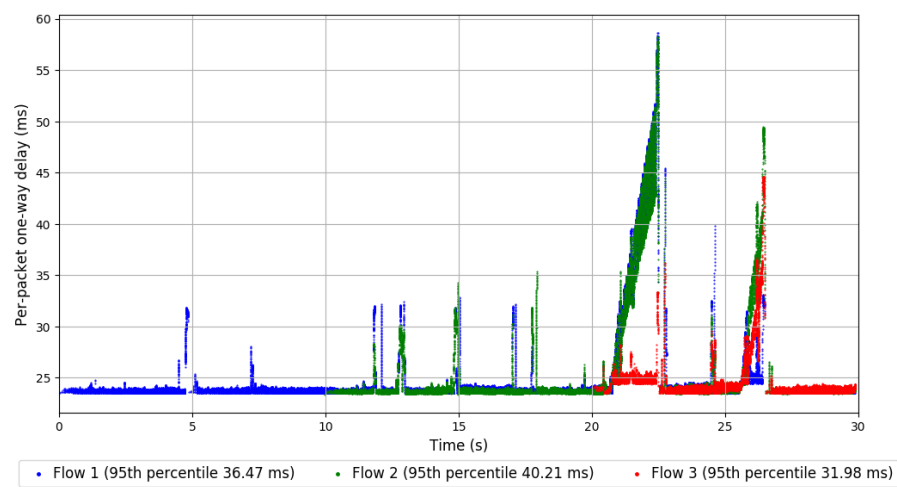
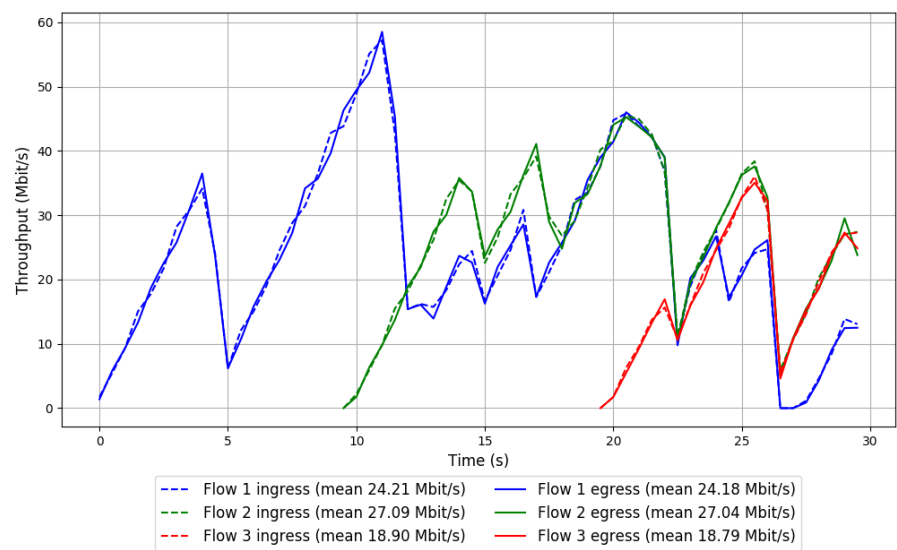
-- Flow 3:

Average throughput: 18.79 Mbit/s

95th percentile per-packet one-way delay: 31.982 ms

Loss rate: 1.14%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 09:25:46

End at: 2018-01-02 09:26:16

Local clock offset: 0.349 ms

Remote clock offset: 2.777 ms

Below is generated by plot.py at 2018-01-02 14:23:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 32.086 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 31.336 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 30.579 ms

Loss rate: 1.03%

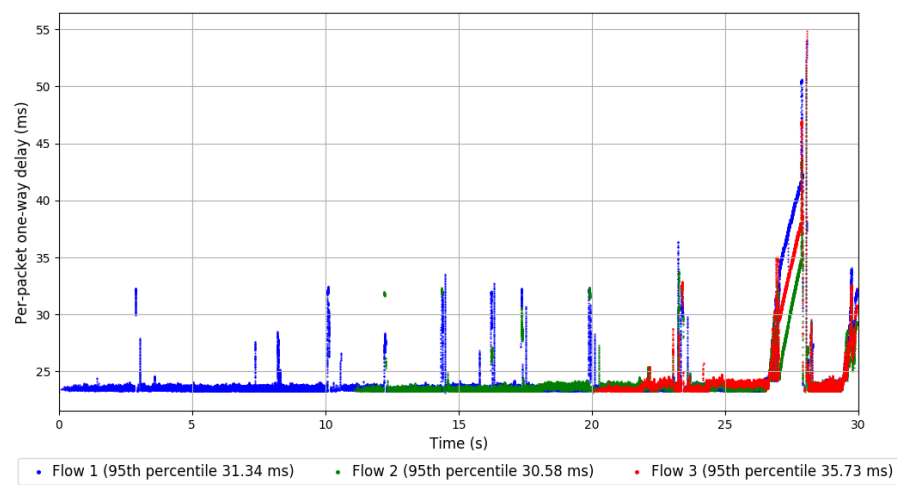
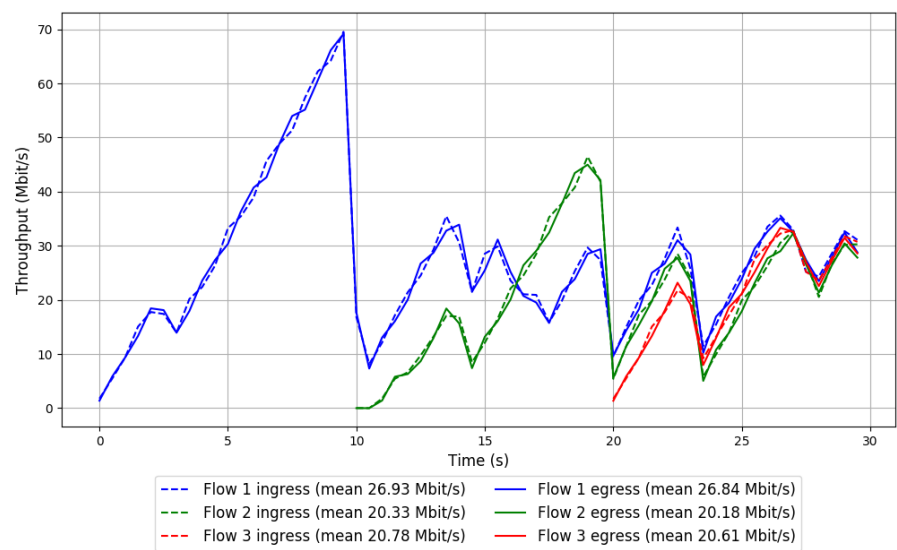
-- Flow 3:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 35.725 ms

Loss rate: 1.35%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 09:46:51

End at: 2018-01-02 09:47:21

Local clock offset: 0.394 ms

Remote clock offset: 2.995 ms

Below is generated by plot.py at 2018-01-02 14:23:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 26.071 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 25.487 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 26.315 ms

Loss rate: 0.95%

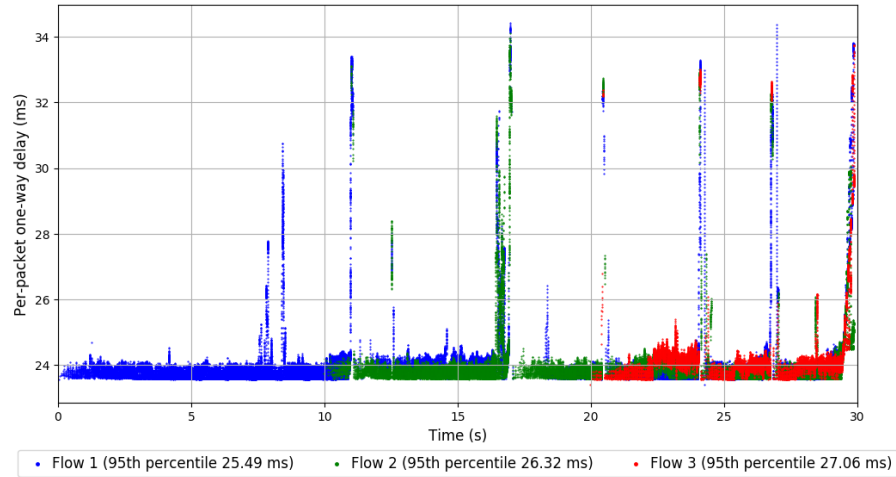
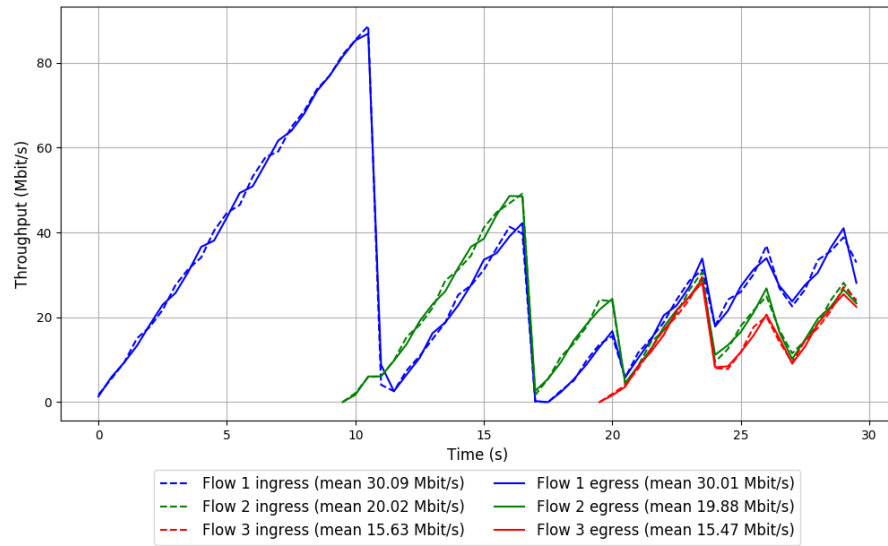
-- Flow 3:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 27.060 ms

Loss rate: 1.52%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 10:07:30

End at: 2018-01-02 10:08:00

Local clock offset: 0.41 ms

Remote clock offset: 2.751 ms

Below is generated by plot.py at 2018-01-02 14:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 32.184 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 25.59 Mbit/s

95th percentile per-packet one-way delay: 25.262 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 34.974 ms

Loss rate: 0.71%

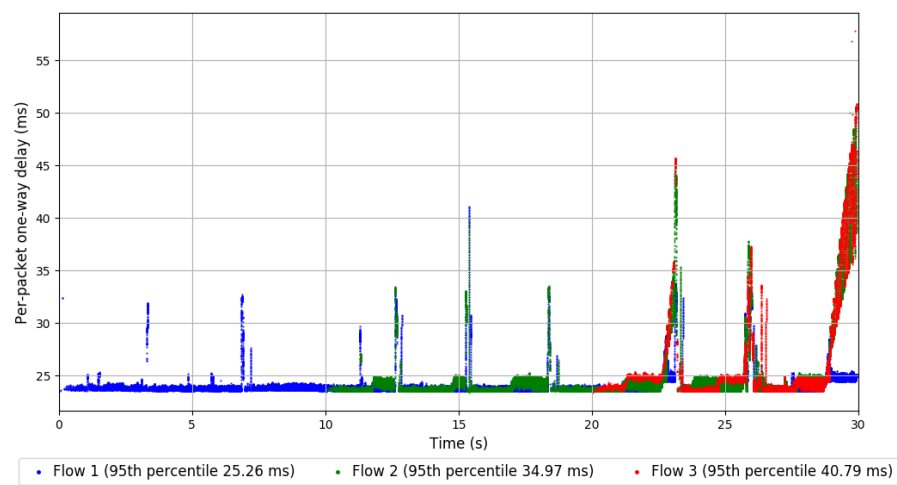
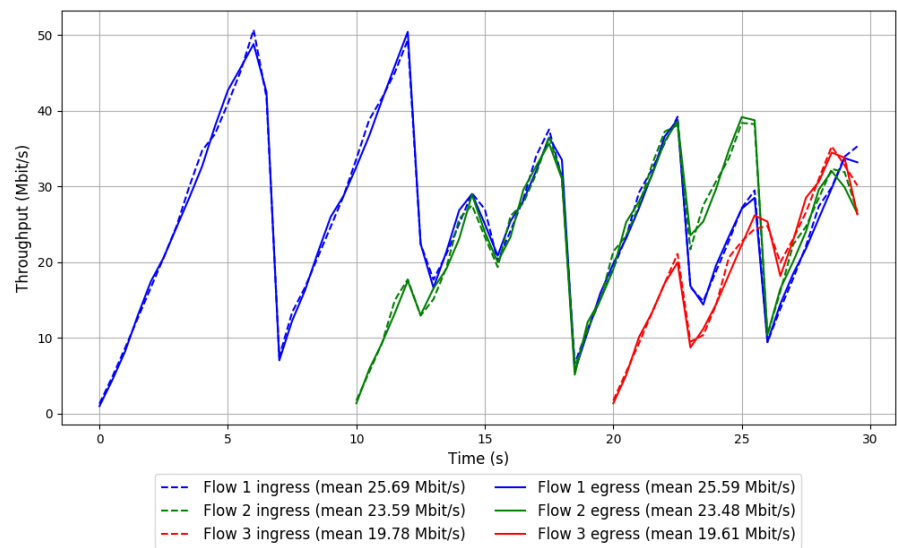
-- Flow 3:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 40.793 ms

Loss rate: 1.39%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 10:28:16

End at: 2018-01-02 10:28:46

Local clock offset: 0.474 ms

Remote clock offset: 2.56 ms

Below is generated by plot.py at 2018-01-02 14:23:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 28.731 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 28.382 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 27.498 ms

Loss rate: 0.36%

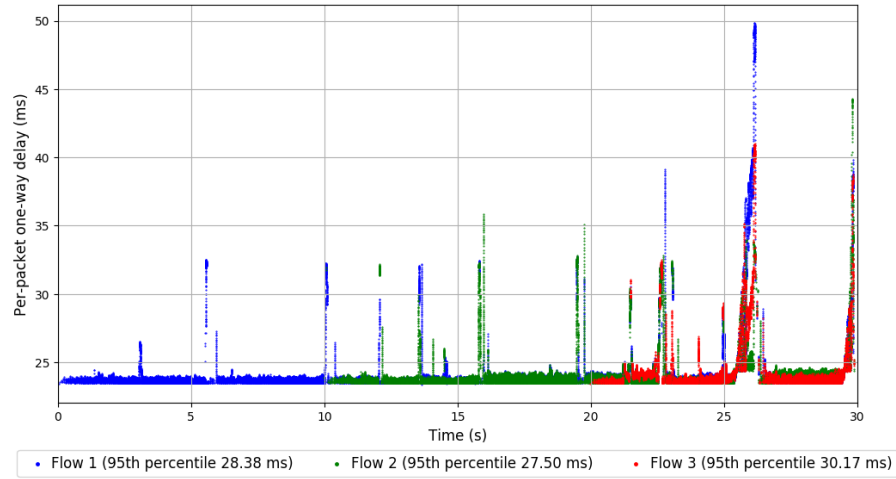
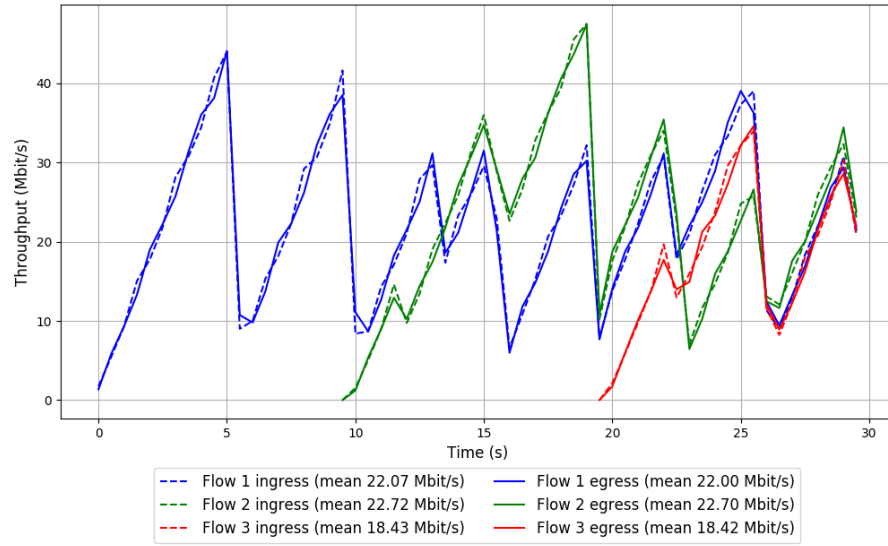
-- Flow 3:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 30.168 ms

Loss rate: 0.54%

Run 10: Report of LEDBAT — Data Link

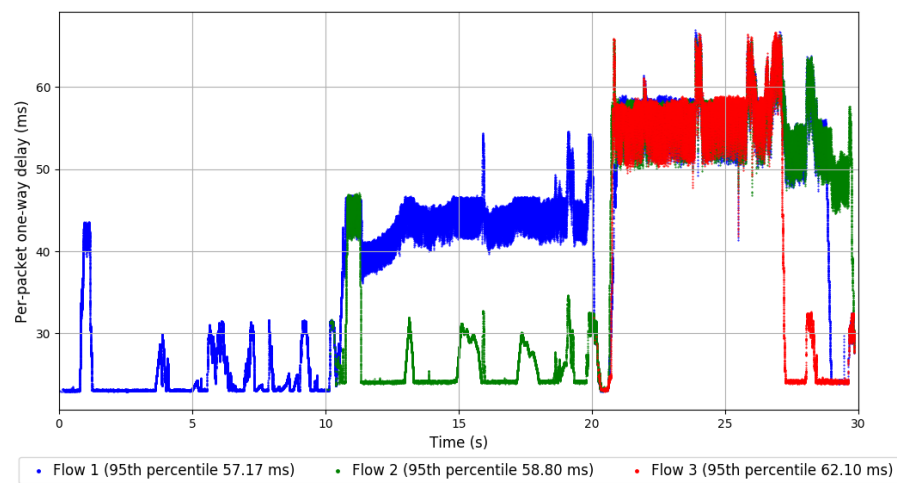
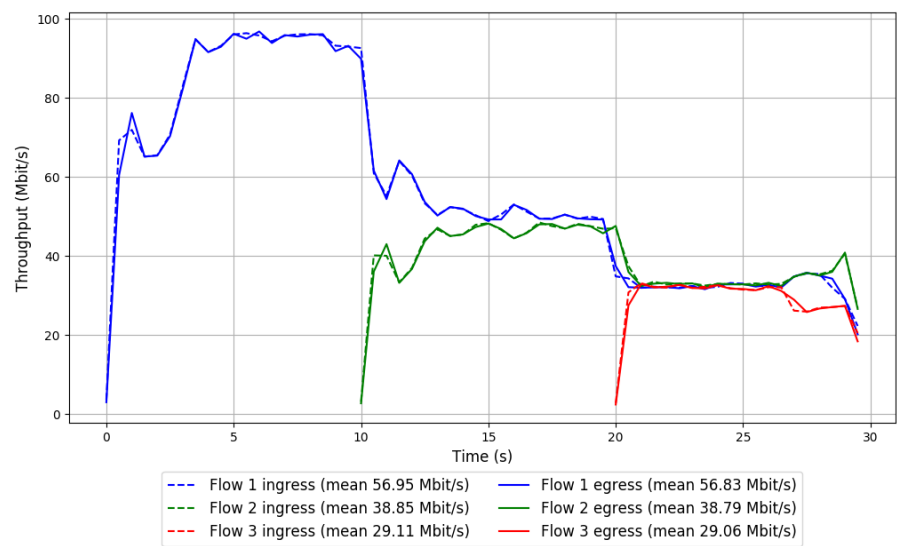


Run 1: Statistics of PCC

Start at: 2018-01-02 07:27:26
End at: 2018-01-02 07:27:56
Local clock offset: 0.138 ms
Remote clock offset: -0.713 ms

Below is generated by plot.py at 2018-01-02 14:23:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 58.124 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 57.175 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 58.799 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 62.103 ms
Loss rate: 0.79%

Run 1: Report of PCC — Data Link

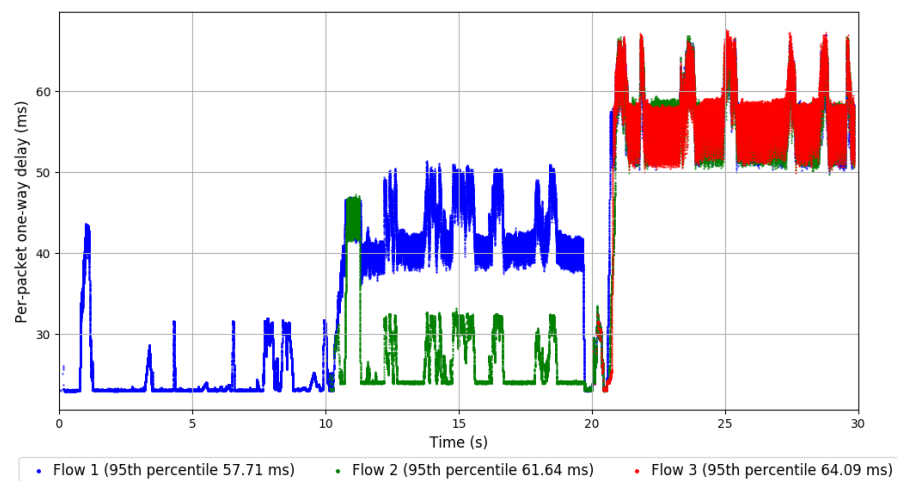
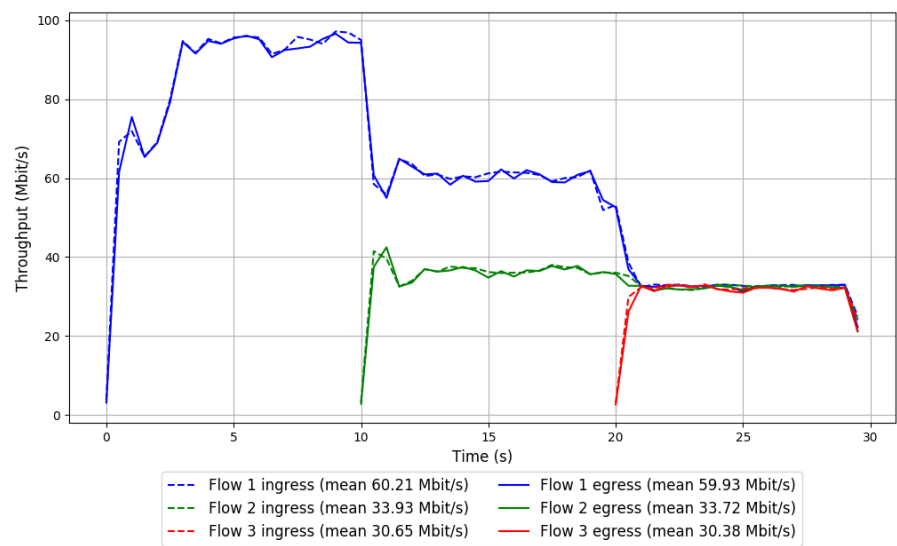


Run 2: Statistics of PCC

Start at: 2018-01-02 07:48:07
End at: 2018-01-02 07:48:37
Local clock offset: 0.153 ms
Remote clock offset: -0.757 ms

Below is generated by plot.py at 2018-01-02 14:23:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 60.524 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 57.710 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 61.639 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 30.38 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 1.60%

Run 2: Report of PCC — Data Link

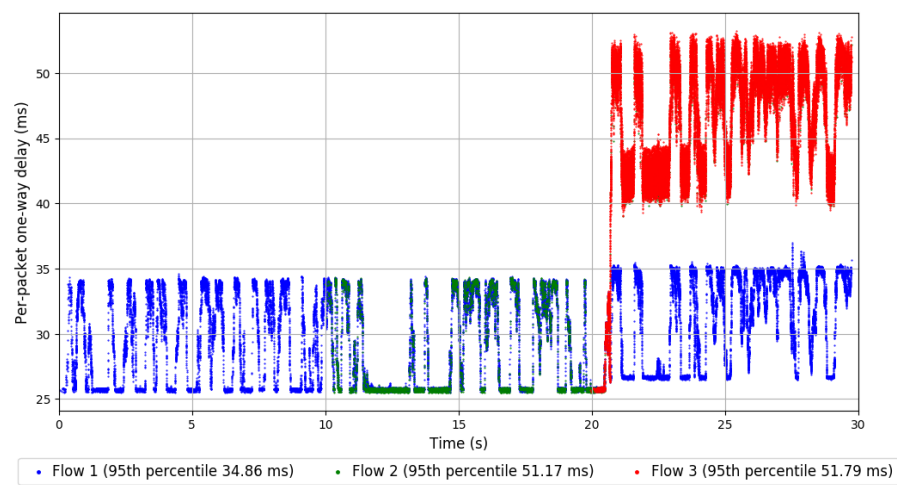
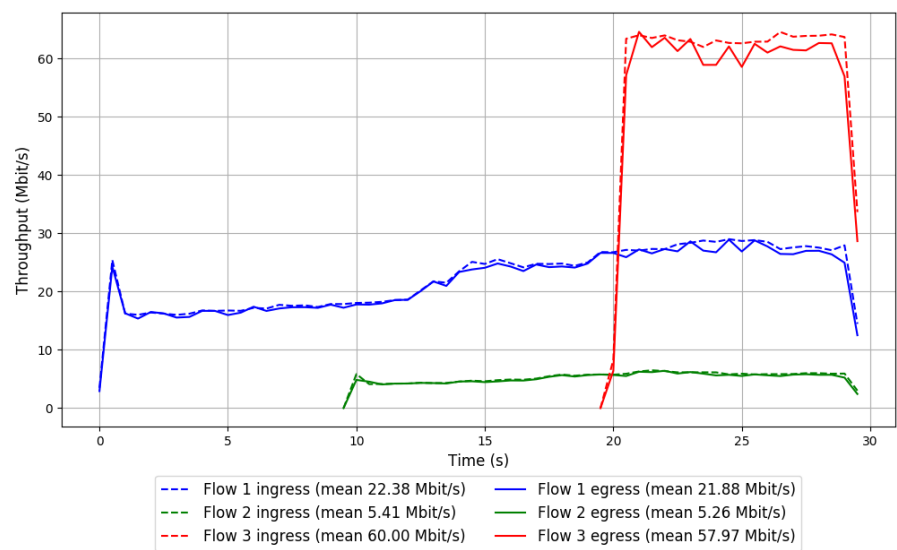


Run 3: Statistics of PCC

Start at: 2018-01-02 08:11:08
End at: 2018-01-02 08:11:38
Local clock offset: 0.176 ms
Remote clock offset: -2.692 ms

Below is generated by plot.py at 2018-01-02 14:23:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.51 Mbit/s
95th percentile per-packet one-way delay: 51.304 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 21.88 Mbit/s
95th percentile per-packet one-way delay: 34.863 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 5.26 Mbit/s
95th percentile per-packet one-way delay: 51.171 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 57.97 Mbit/s
95th percentile per-packet one-way delay: 51.788 ms
Loss rate: 3.96%

Run 3: Report of PCC — Data Link

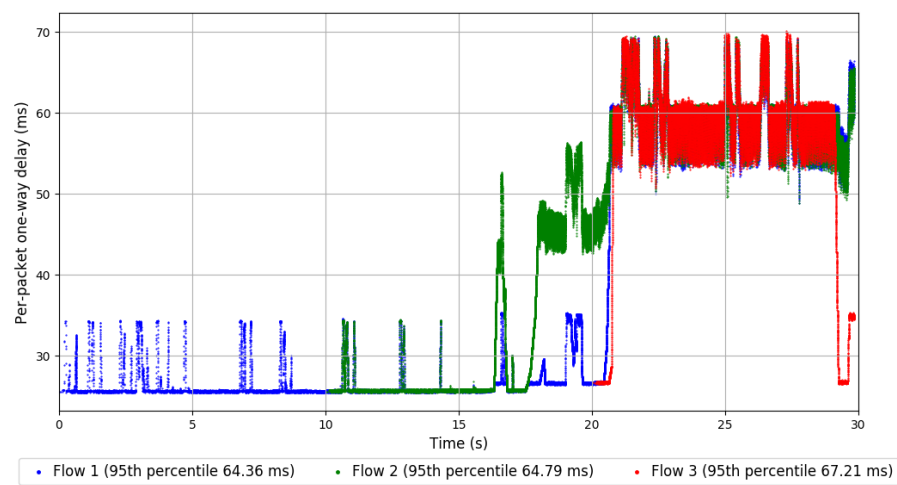
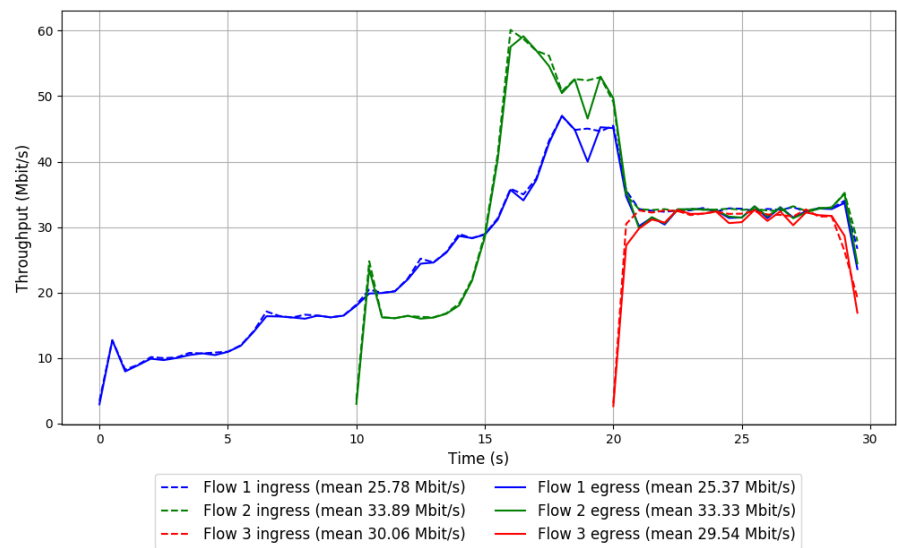


Run 4: Statistics of PCC

Start at: 2018-01-02 08:34:05
End at: 2018-01-02 08:34:35
Local clock offset: -0.015 ms
Remote clock offset: -1.505 ms

Below is generated by plot.py at 2018-01-02 14:23:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 65.318 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 25.37 Mbit/s
95th percentile per-packet one-way delay: 64.364 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 33.33 Mbit/s
95th percentile per-packet one-way delay: 64.792 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 67.212 ms
Loss rate: 2.27%

Run 4: Report of PCC — Data Link

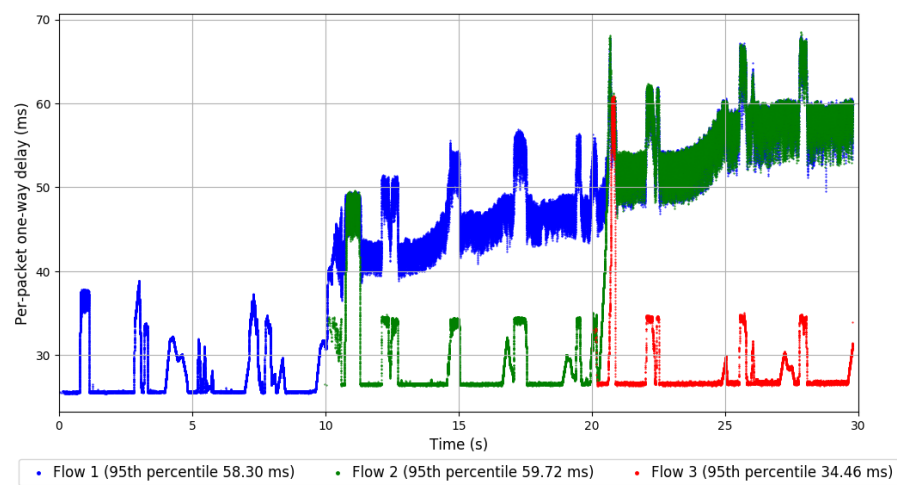
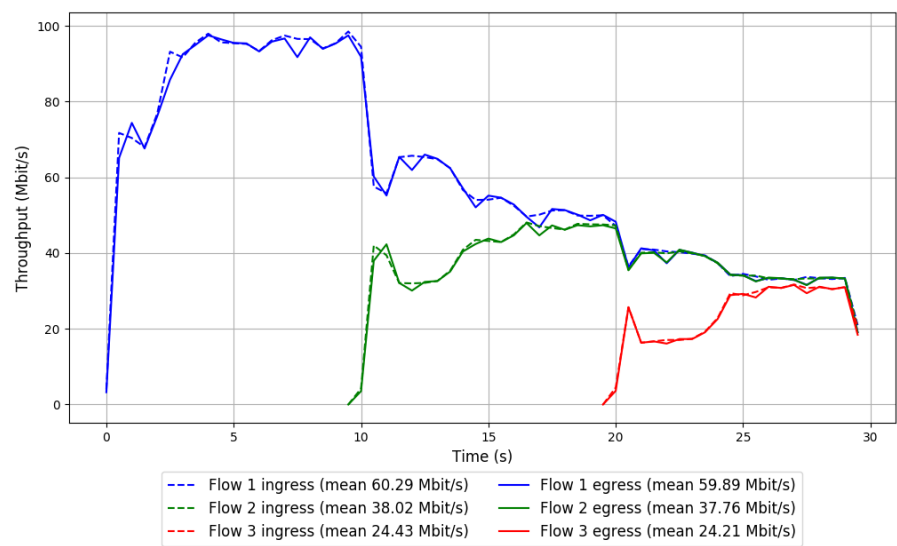


Run 5: Statistics of PCC

Start at: 2018-01-02 08:55:37
End at: 2018-01-02 08:56:07
Local clock offset: 0.216 ms
Remote clock offset: -0.653 ms

Below is generated by plot.py at 2018-01-02 14:24:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 58.838 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 58.301 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 59.717 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 34.461 ms
Loss rate: 1.46%

Run 5: Report of PCC — Data Link

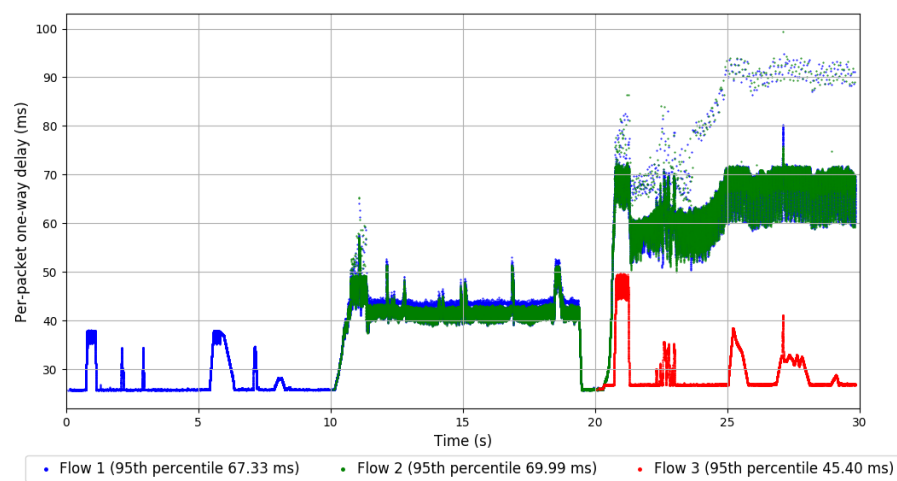
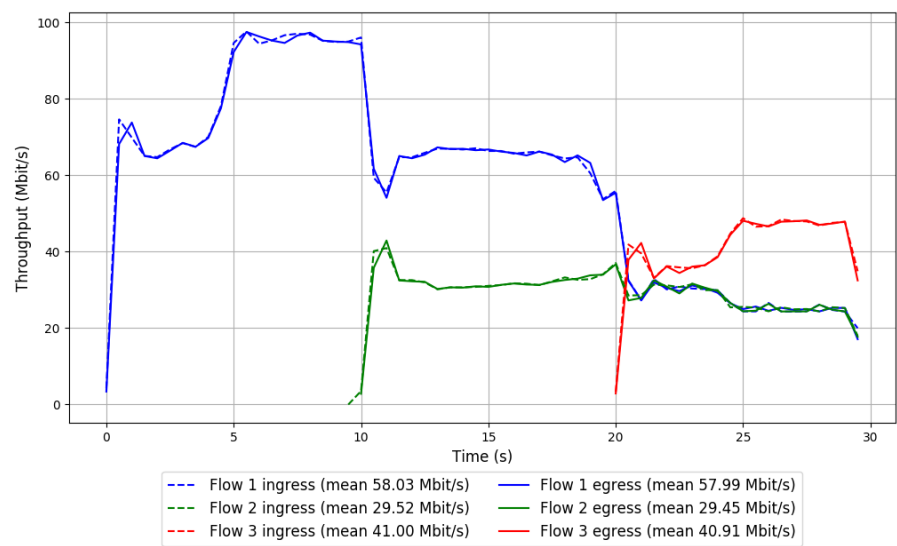


Run 6: Statistics of PCC

Start at: 2018-01-02 09:16:16
End at: 2018-01-02 09:16:46
Local clock offset: 0.35 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-01-02 14:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 68.176 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 67.329 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 29.45 Mbit/s
95th percentile per-packet one-way delay: 69.994 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 45.397 ms
Loss rate: 0.77%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 09:37:21

End at: 2018-01-02 09:37:51

Local clock offset: 0.375 ms

Remote clock offset: 2.835 ms

Below is generated by plot.py at 2018-01-02 14:24:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 61.714 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 59.750 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 65.891 ms

Loss rate: 0.72%

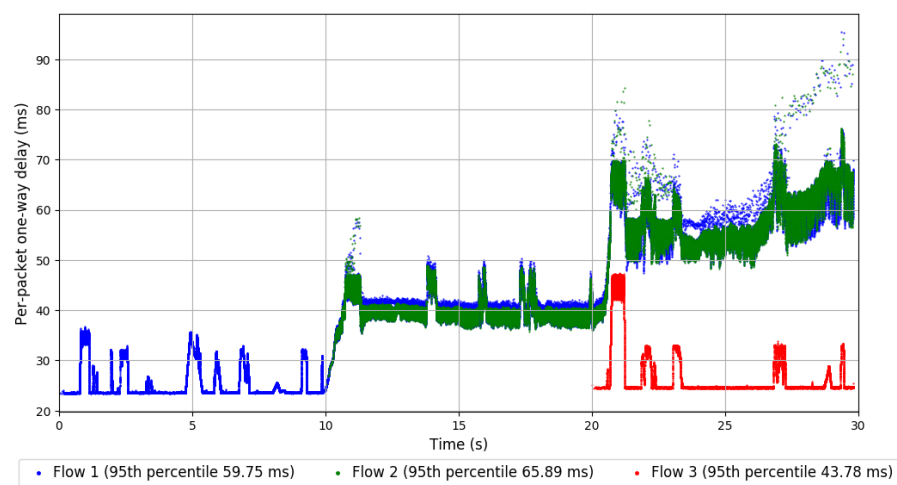
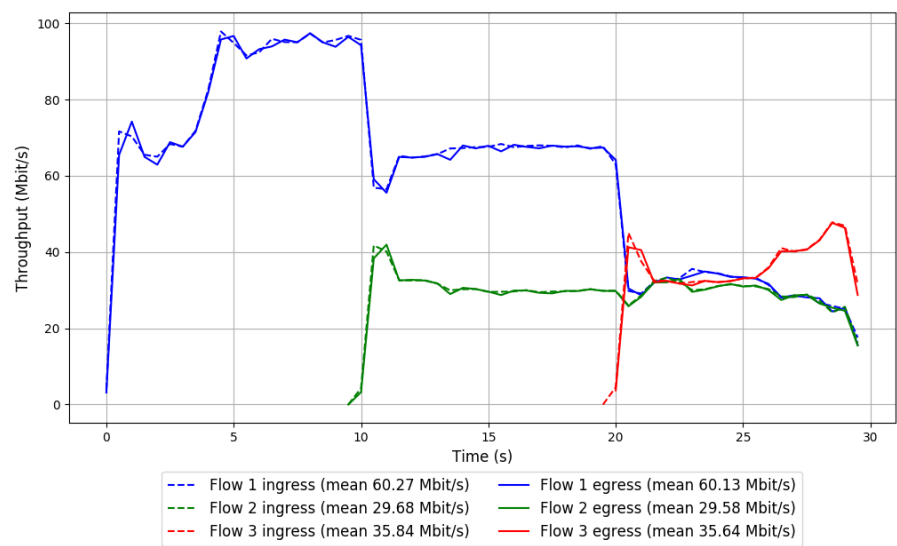
-- Flow 3:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 43.785 ms

Loss rate: 1.10%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 09:57:49

End at: 2018-01-02 09:58:19

Local clock offset: 0.334 ms

Remote clock offset: 0.846 ms

Below is generated by plot.py at 2018-01-02 14:24:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 60.103 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 57.92 Mbit/s

95th percentile per-packet one-way delay: 59.447 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 60.179 ms

Loss rate: 0.44%

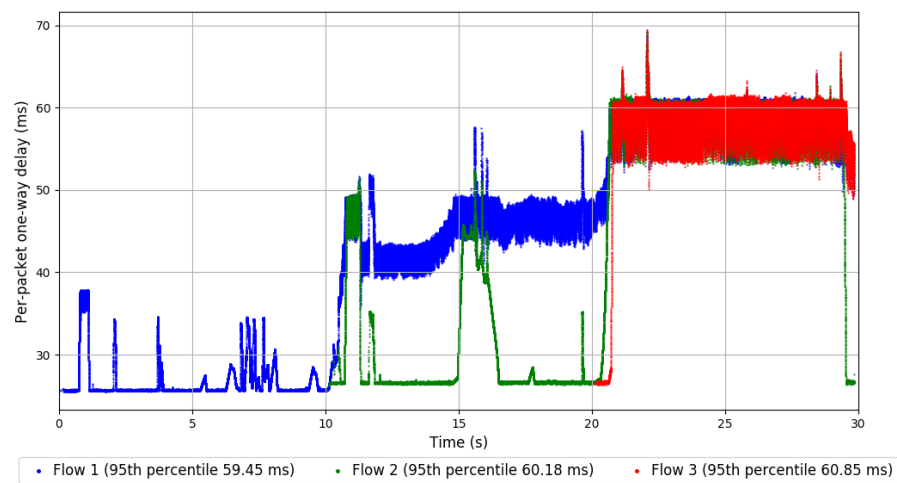
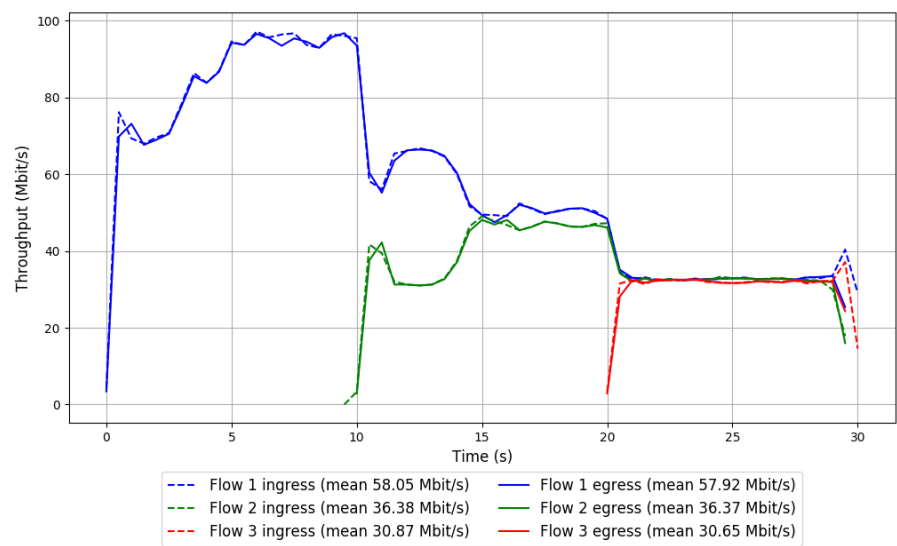
-- Flow 3:

Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 60.846 ms

Loss rate: 4.95%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 10:18:48

End at: 2018-01-02 10:19:18

Local clock offset: 0.53 ms

Remote clock offset: 2.655 ms

Below is generated by plot.py at 2018-01-02 14:24:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.89 Mbit/s

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

Loss rate: 1.61%

-- Flow 1:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 55.622 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 44.71 Mbit/s

95th percentile per-packet one-way delay: 30.996 ms

Loss rate: 0.70%

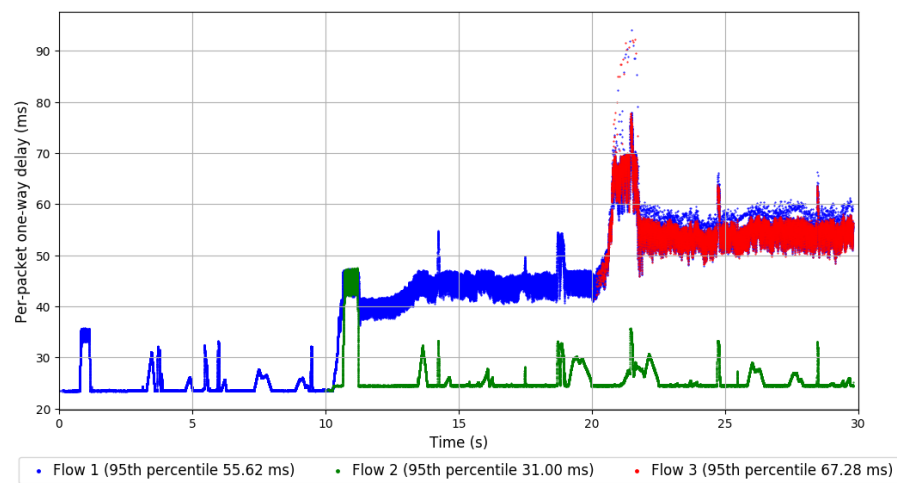
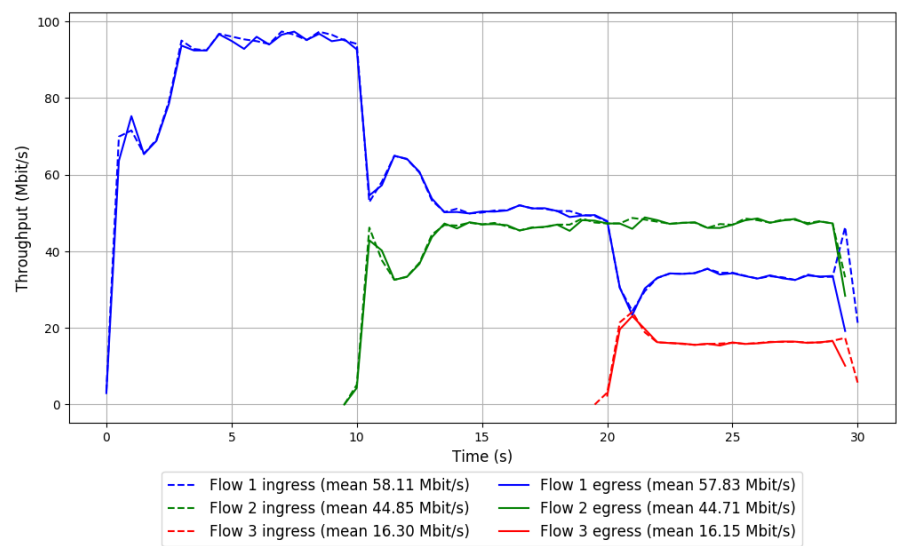
-- Flow 3:

Average throughput: 16.15 Mbit/s

95th percentile per-packet one-way delay: 67.277 ms

Loss rate: 4.89%

Run 9: Report of PCC — Data Link

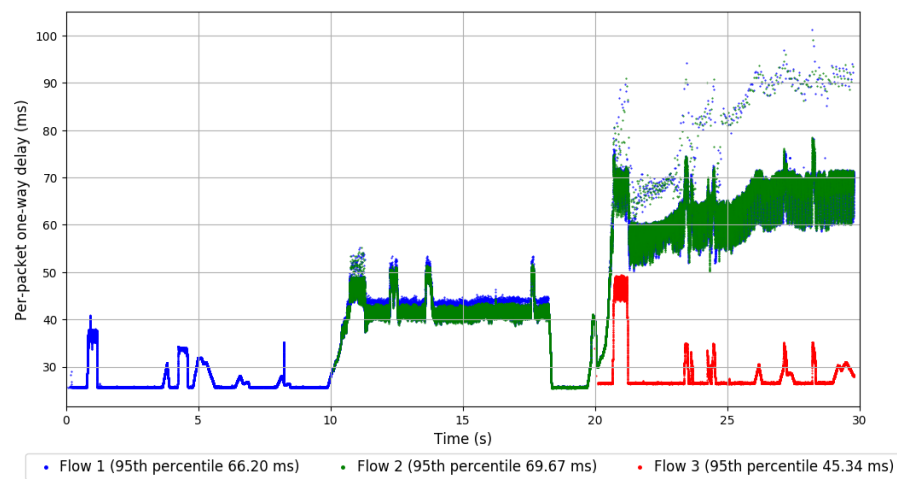
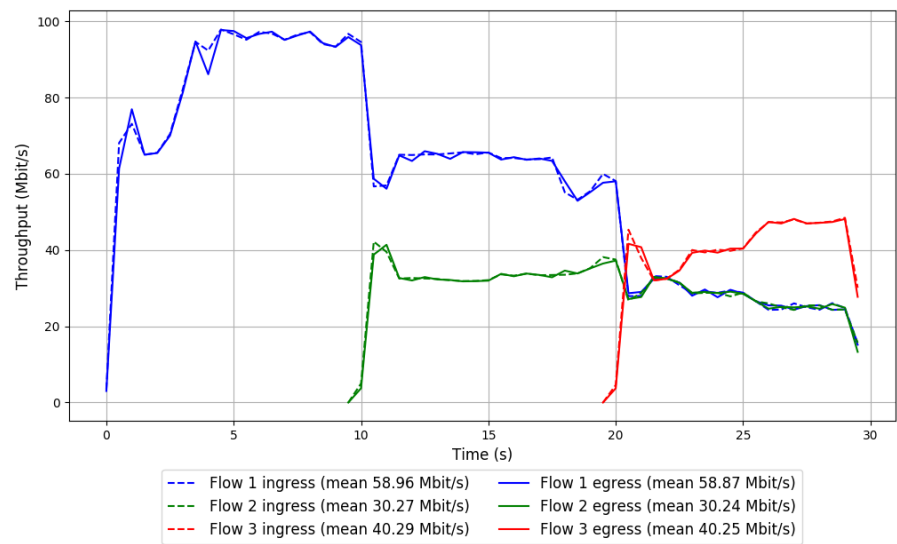


Run 10: Statistics of PCC

Start at: 2018-01-02 10:39:20
End at: 2018-01-02 10:39:50
Local clock offset: 0.677 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-01-02 14:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 67.436 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 58.87 Mbit/s
95th percentile per-packet one-way delay: 66.202 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 69.666 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 45.345 ms
Loss rate: 0.72%

Run 10: Report of PCC — Data Link

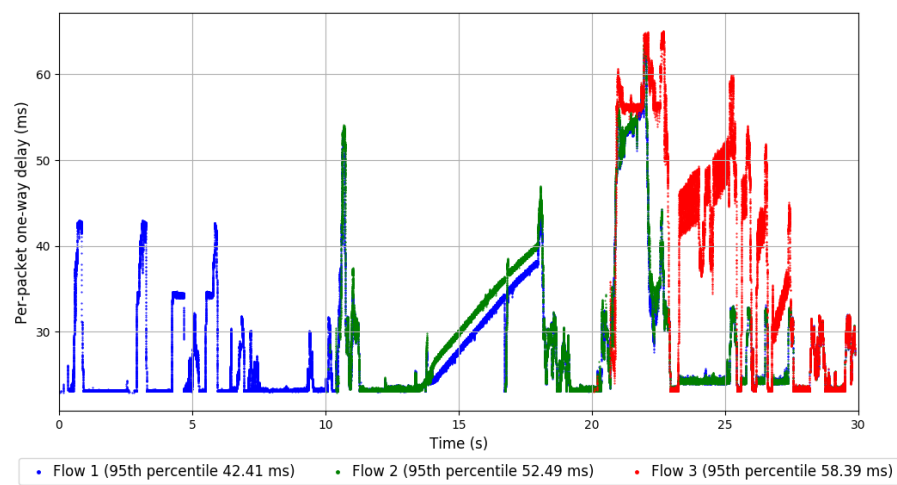
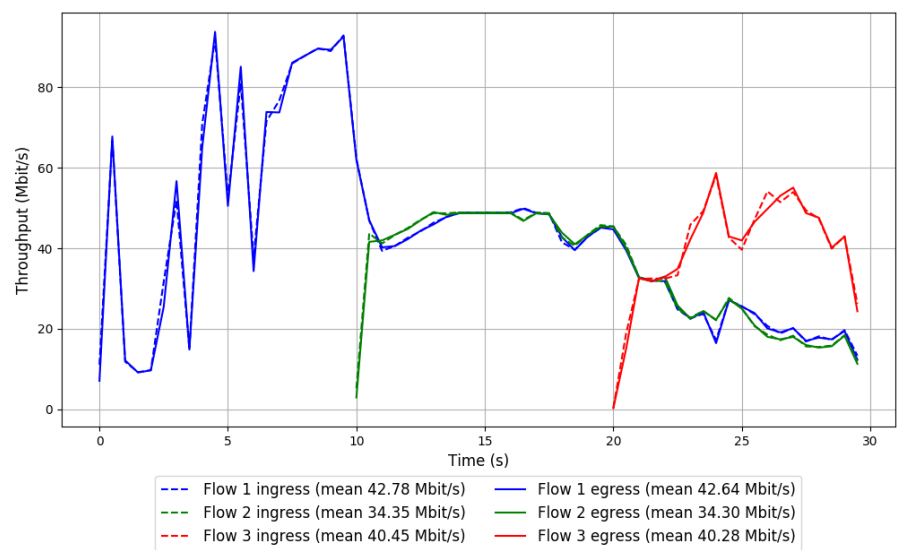


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 07:20:24
End at: 2018-01-02 07:20:54
Local clock offset: 0.206 ms
Remote clock offset: -0.664 ms

Below is generated by plot.py at 2018-01-02 14:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.68 Mbit/s
95th percentile per-packet one-way delay: 53.414 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 42.415 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 52.489 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 58.394 ms
Loss rate: 0.95%

Run 1: Report of QUIC Cubic — Data Link

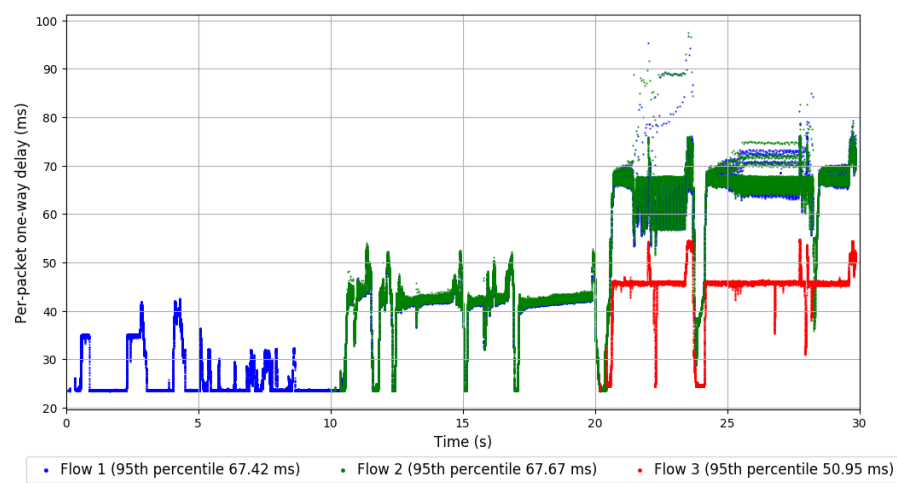
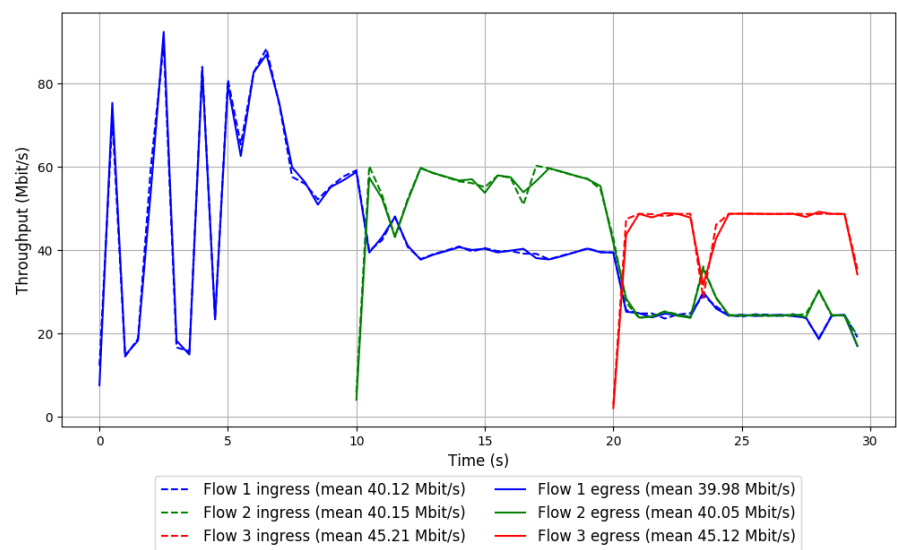


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 07:41:18
End at: 2018-01-02 07:41:48
Local clock offset: 0.085 ms
Remote clock offset: -1.256 ms

Below is generated by plot.py at 2018-01-02 14:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.39 Mbit/s
95th percentile per-packet one-way delay: 67.455 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 39.98 Mbit/s
95th percentile per-packet one-way delay: 67.420 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 67.673 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 45.12 Mbit/s
95th percentile per-packet one-way delay: 50.955 ms
Loss rate: 0.80%

Run 2: Report of QUIC Cubic — Data Link

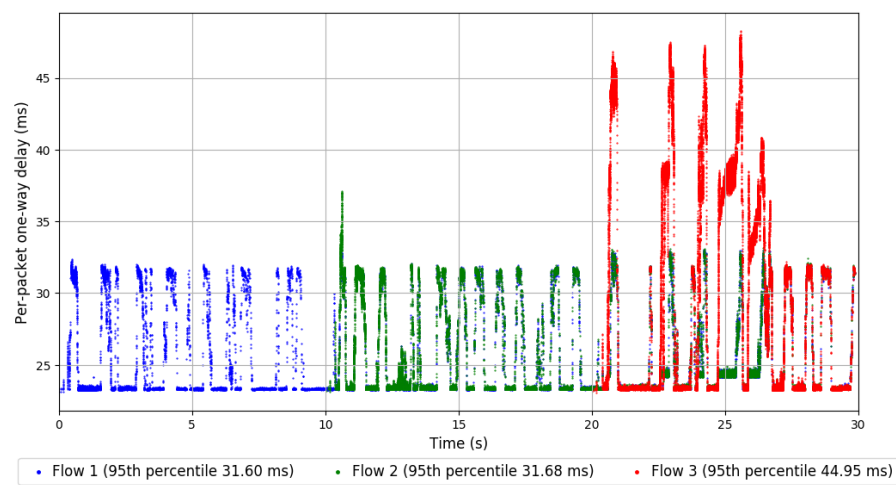
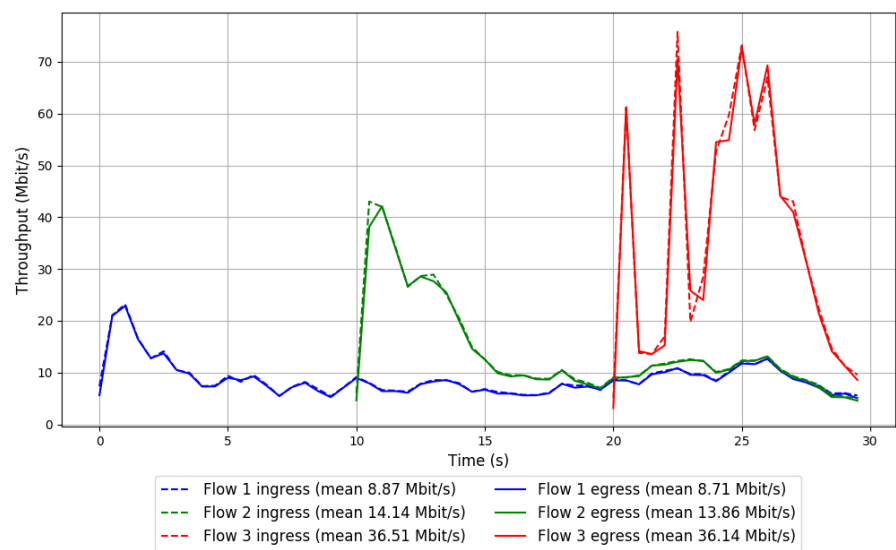


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 08:02:55
End at: 2018-01-02 08:03:25
Local clock offset: 0.109 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-01-02 14:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.80 Mbit/s
95th percentile per-packet one-way delay: 42.195 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 31.603 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 31.678 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 44.952 ms
Loss rate: 1.57%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 08:26:30

End at: 2018-01-02 08:27:00

Local clock offset: 0.124 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-01-02 14:25:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.19 Mbit/s

95th percentile per-packet one-way delay: 41.338 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 23.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 31.940 ms

Loss rate: 1.62%

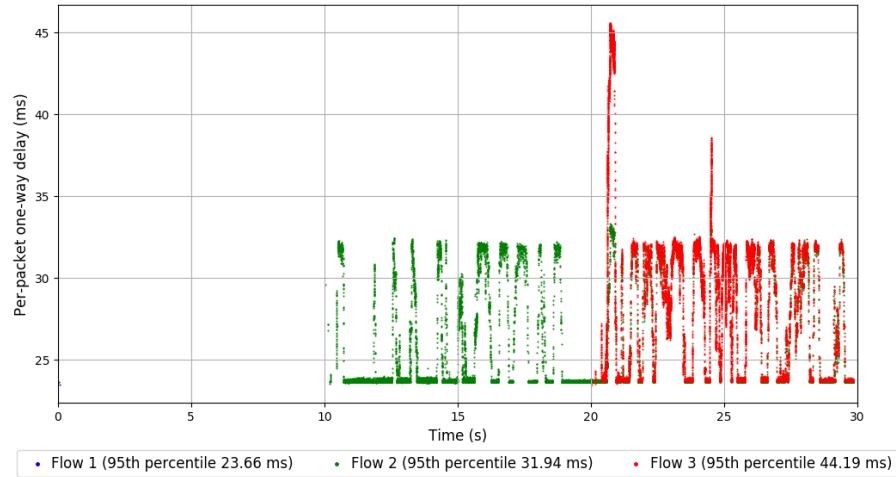
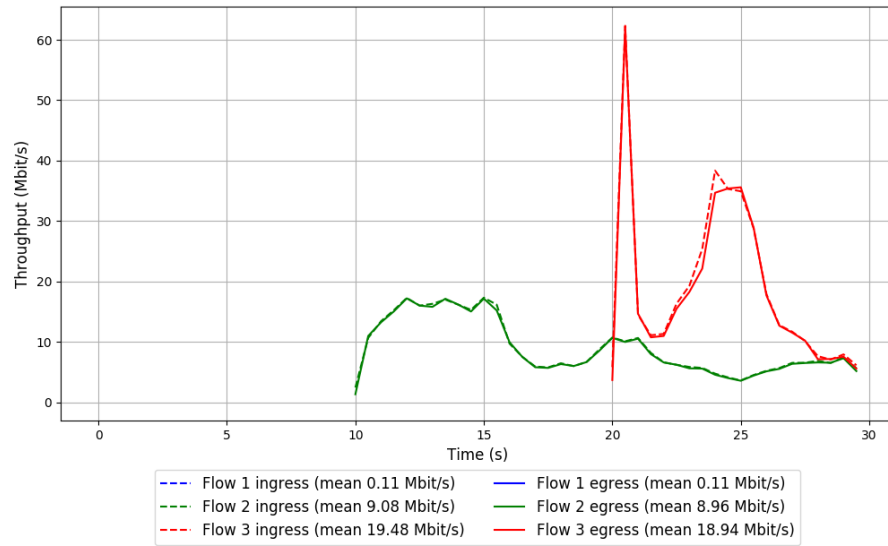
-- Flow 3:

Average throughput: 18.94 Mbit/s

95th percentile per-packet one-way delay: 44.191 ms

Loss rate: 3.27%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 08:48:29

End at: 2018-01-02 08:48:59

Local clock offset: 0.178 ms

Remote clock offset: 1.024 ms

Below is generated by plot.py at 2018-01-02 14:25:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 43.302 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 34.61 Mbit/s

95th percentile per-packet one-way delay: 42.183 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 31.878 ms

Loss rate: 1.17%

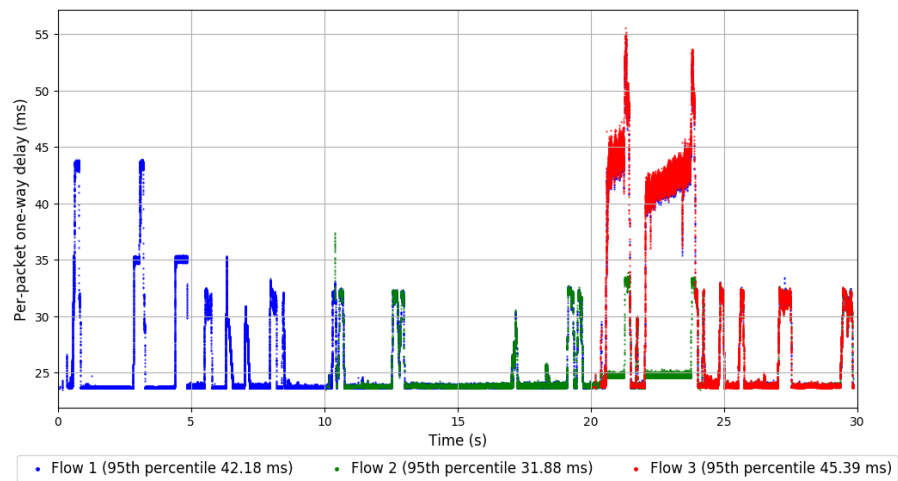
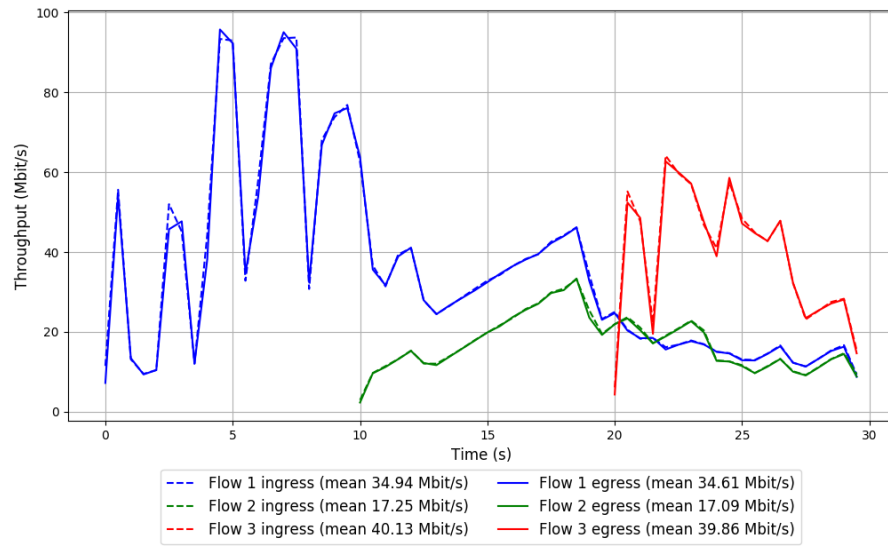
-- Flow 3:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 45.394 ms

Loss rate: 1.22%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 09:09:21

End at: 2018-01-02 09:09:51

Local clock offset: 0.357 ms

Remote clock offset: 1.905 ms

Below is generated by plot.py at 2018-01-02 14:26:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 54.987 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 35.901 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 32.803 ms

Loss rate: 0.64%

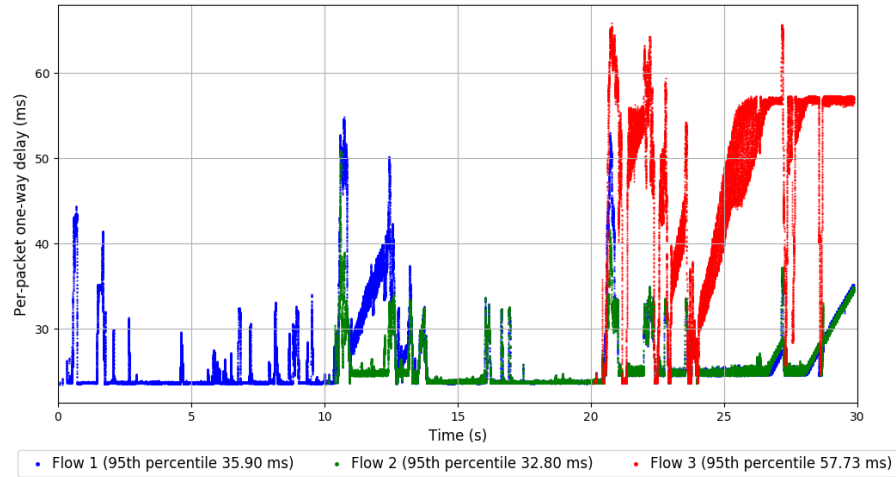
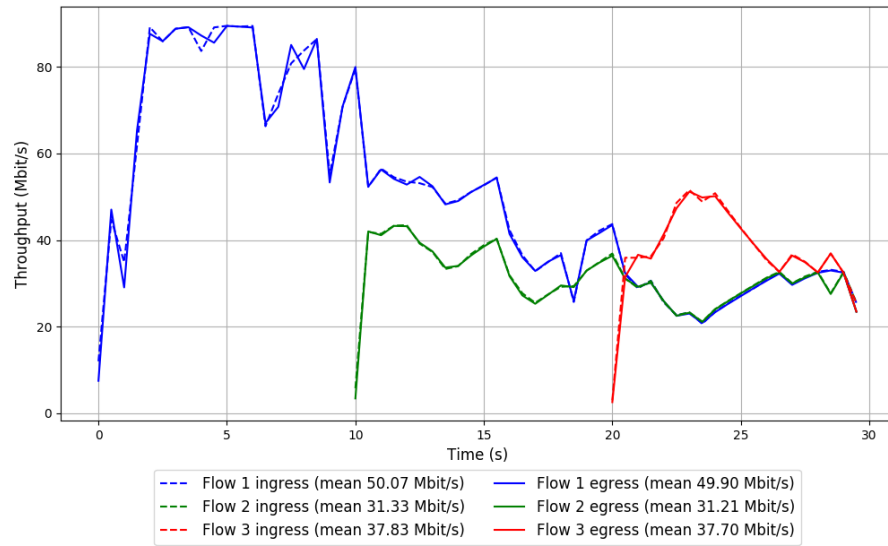
-- Flow 3:

Average throughput: 37.70 Mbit/s

95th percentile per-packet one-way delay: 57.732 ms

Loss rate: 1.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 09:30:13

End at: 2018-01-02 09:30:43

Local clock offset: 0.364 ms

Remote clock offset: 2.464 ms

Below is generated by plot.py at 2018-01-02 14:26:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 67.632 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 46.39 Mbit/s

95th percentile per-packet one-way delay: 67.596 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 46.340 ms

Loss rate: 0.82%

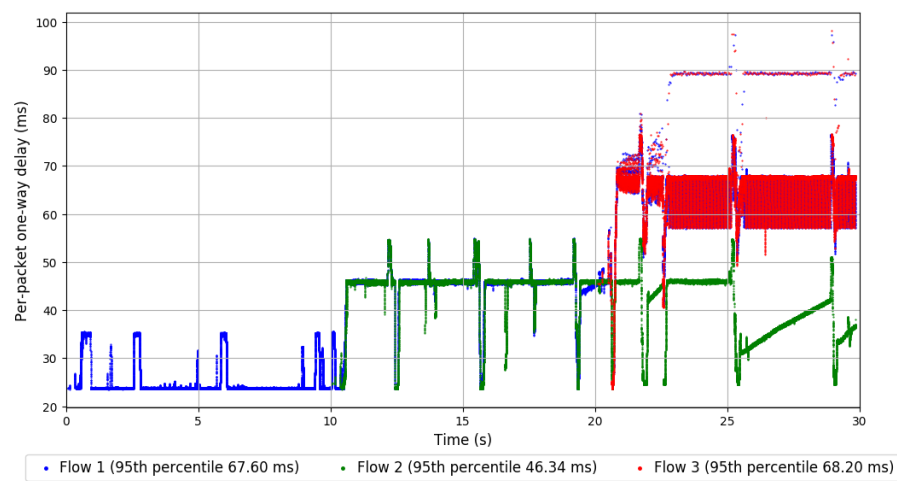
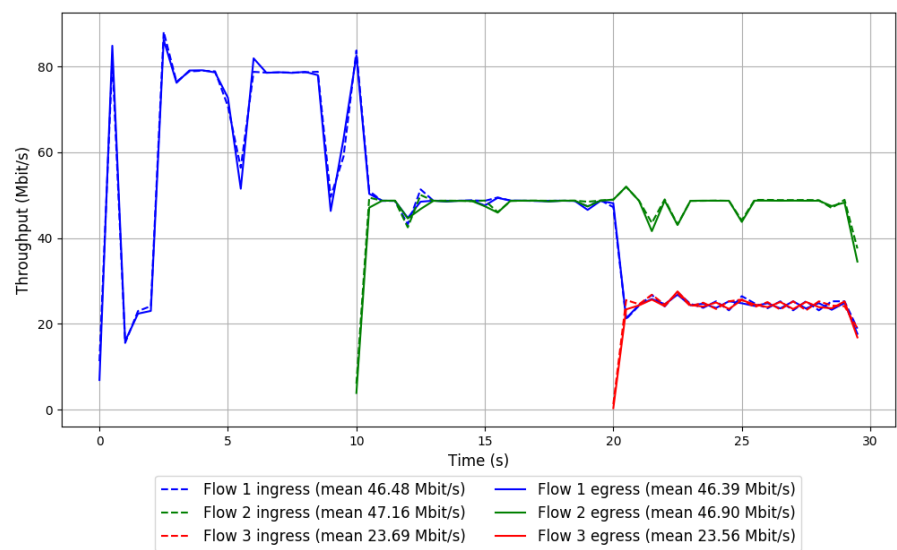
-- Flow 3:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 68.200 ms

Loss rate: 1.53%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 09:51:00

End at: 2018-01-02 09:51:30

Local clock offset: 0.315 ms

Remote clock offset: 0.863 ms

Below is generated by plot.py at 2018-01-02 14:26:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 52.680 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 51.46 Mbit/s

95th percentile per-packet one-way delay: 52.442 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 44.51 Mbit/s

95th percentile per-packet one-way delay: 52.881 ms

Loss rate: 0.47%

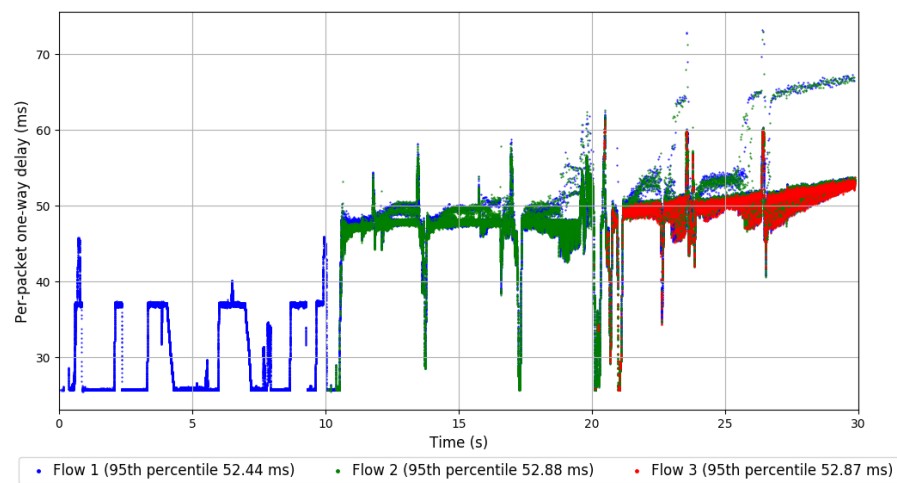
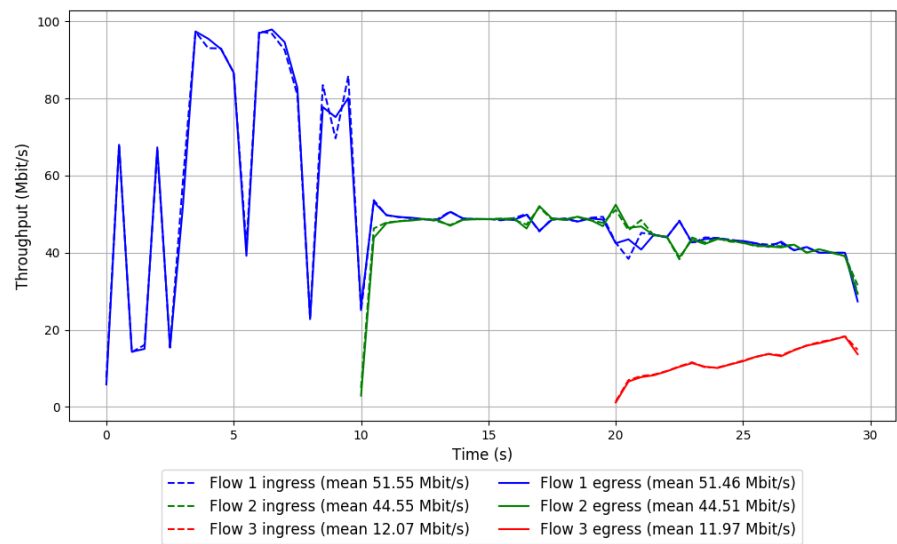
-- Flow 3:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 52.872 ms

Loss rate: 1.50%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 10:11:53

End at: 2018-01-02 10:12:23

Local clock offset: 0.519 ms

Remote clock offset: 0.645 ms

Below is generated by plot.py at 2018-01-02 14:26:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 63.111 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 63.332 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 49.485 ms

Loss rate: 0.66%

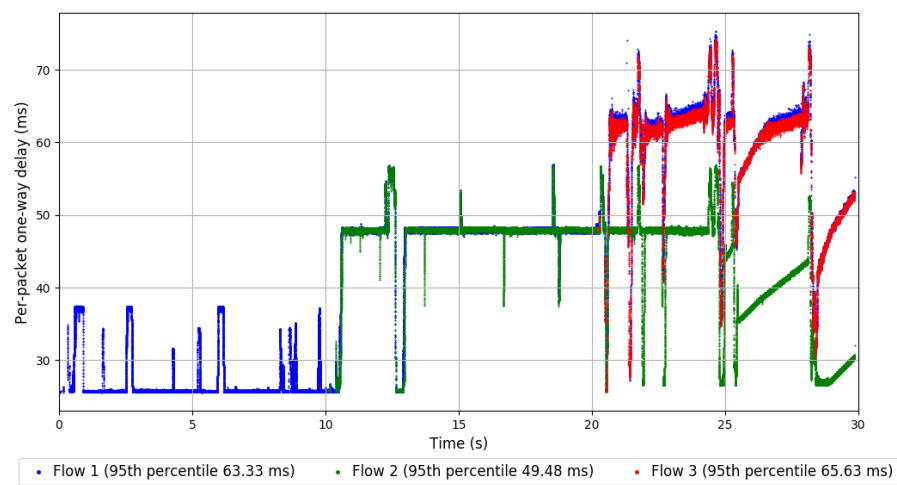
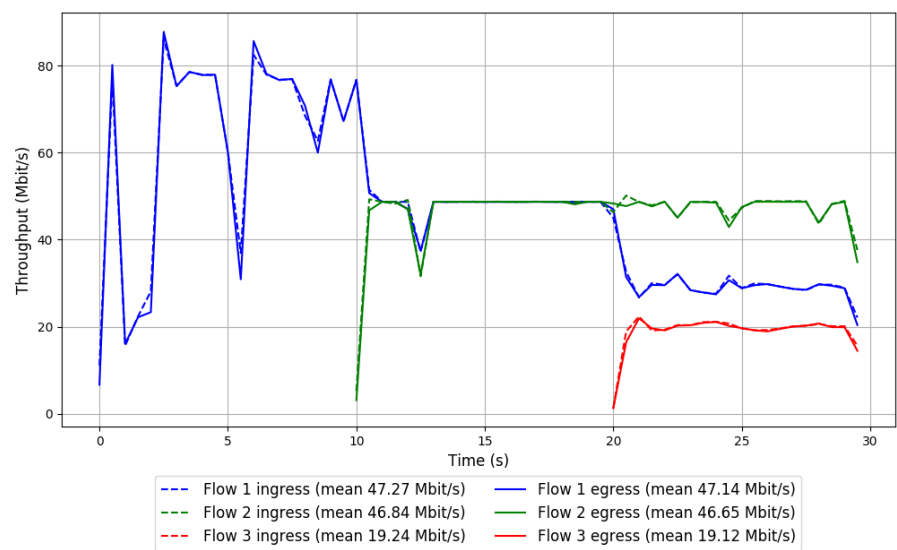
-- Flow 3:

Average throughput: 19.12 Mbit/s

95th percentile per-packet one-way delay: 65.627 ms

Loss rate: 1.41%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 10:32:29

End at: 2018-01-02 10:32:59

Local clock offset: 0.517 ms

Remote clock offset: 2.272 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 62.435 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 38.785 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 21.12 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.80%

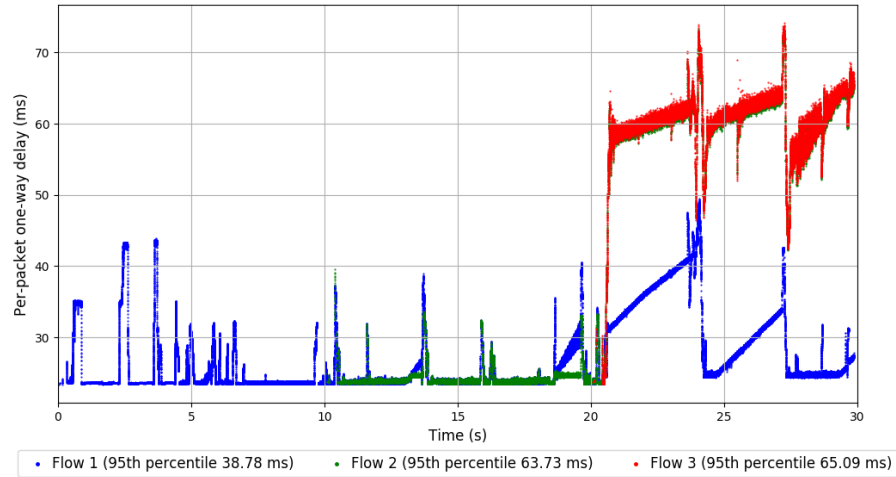
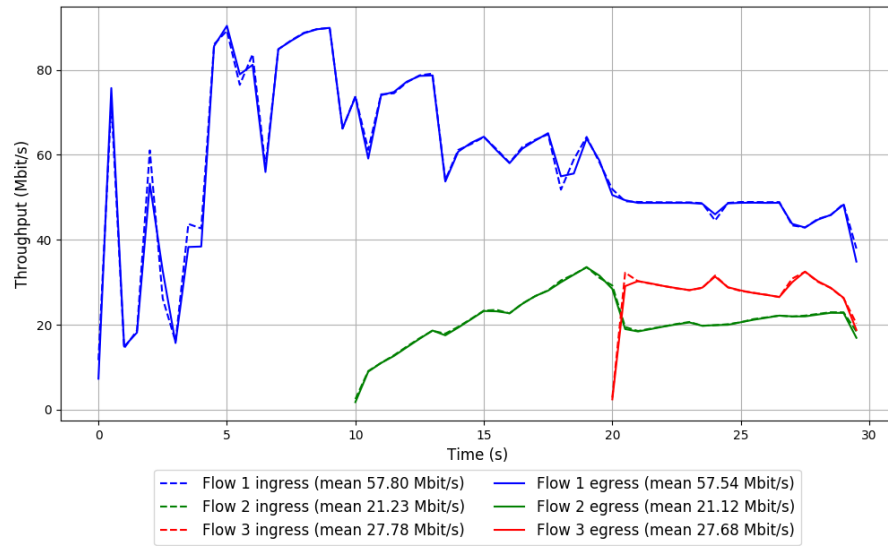
-- Flow 3:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 65.090 ms

Loss rate: 1.02%

Run 10: Report of QUIC Cubic — Data Link

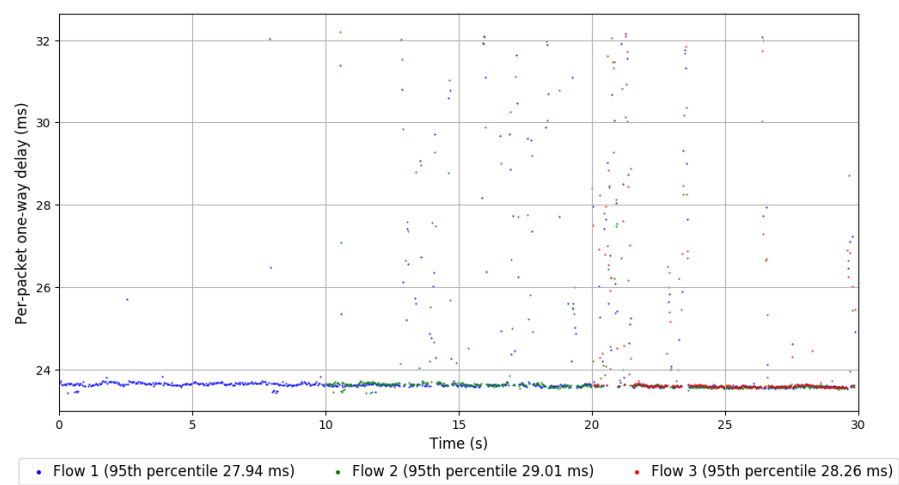
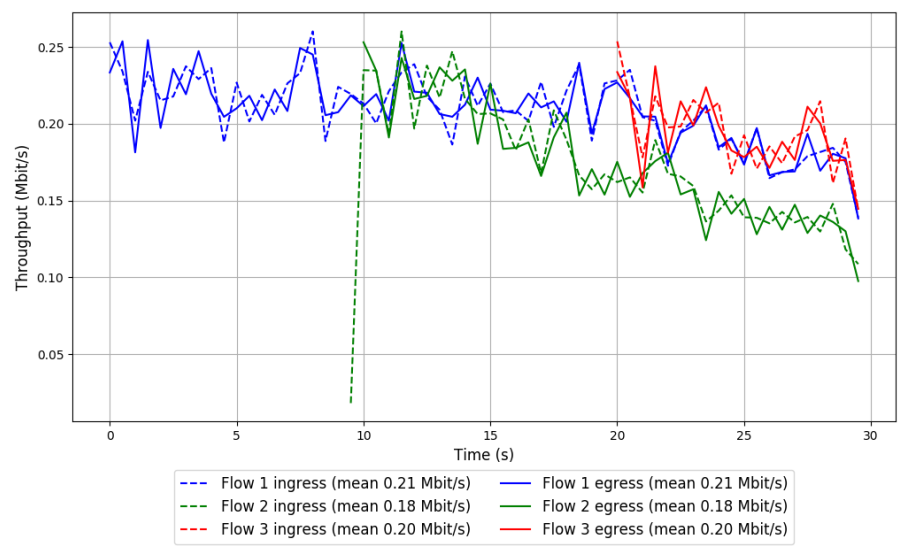


Run 1: Statistics of SReAM

Start at: 2018-01-02 07:35:48
End at: 2018-01-02 07:36:18
Local clock offset: 0.191 ms
Remote clock offset: -1.202 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 28.469 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.941 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 29.006 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 28.256 ms
Loss rate: 0.85%

Run 1: Report of SReAM — Data Link

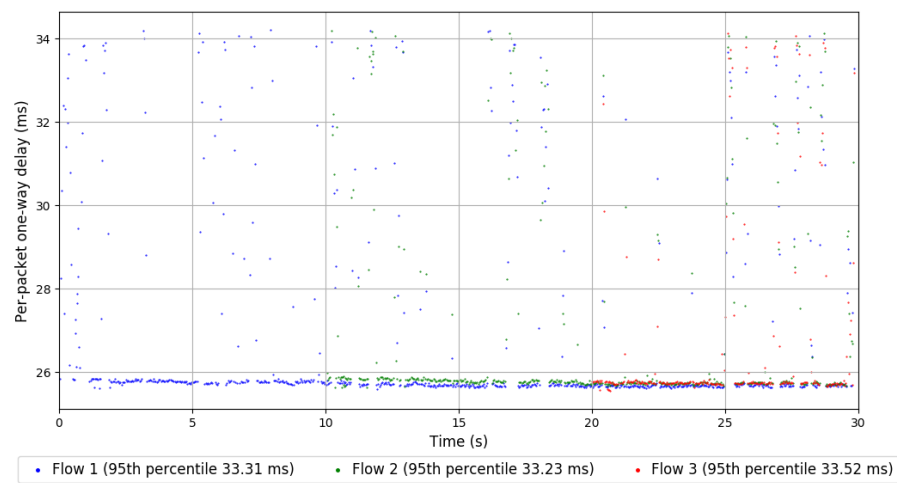
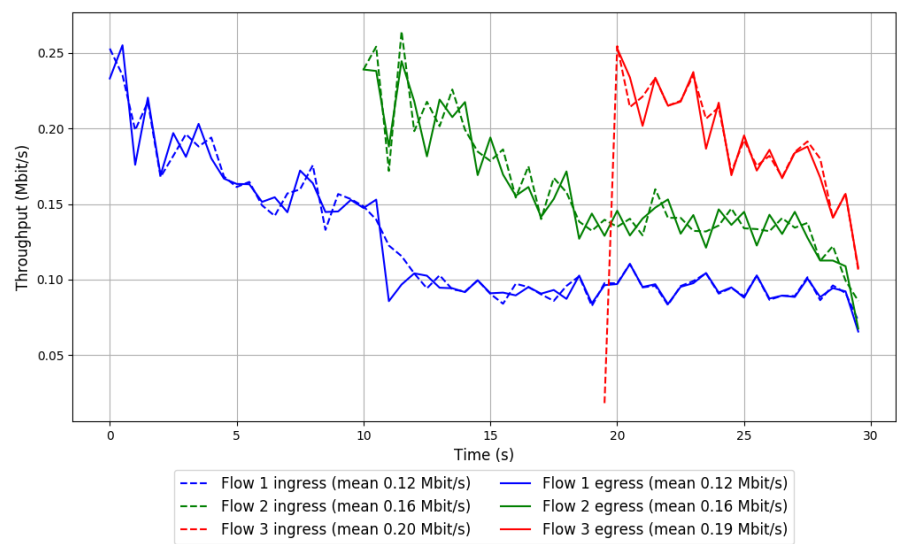


Run 2: Statistics of SCReAM

Start at: 2018-01-02 07:56:36
End at: 2018-01-02 07:57:06
Local clock offset: 0.1 ms
Remote clock offset: -3.155 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 33.355 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 33.313 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 33.235 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 33.517 ms
Loss rate: 1.25%

Run 2: Report of SReAM — Data Link

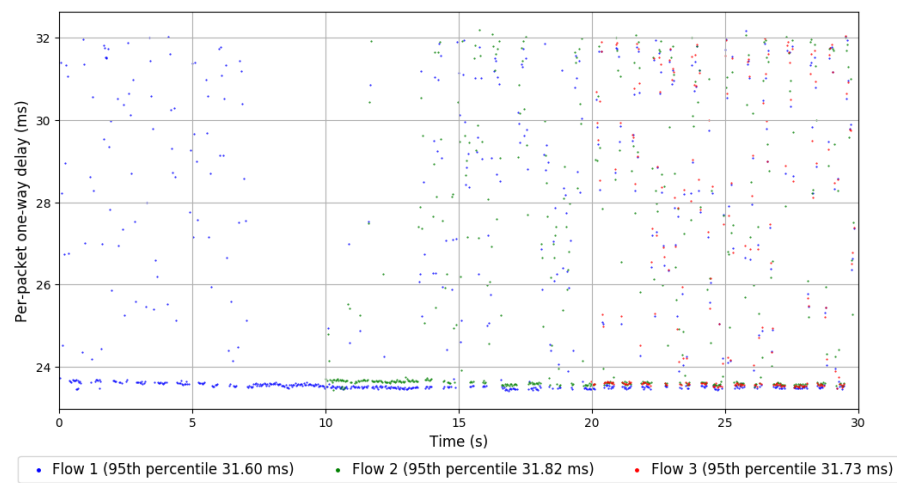
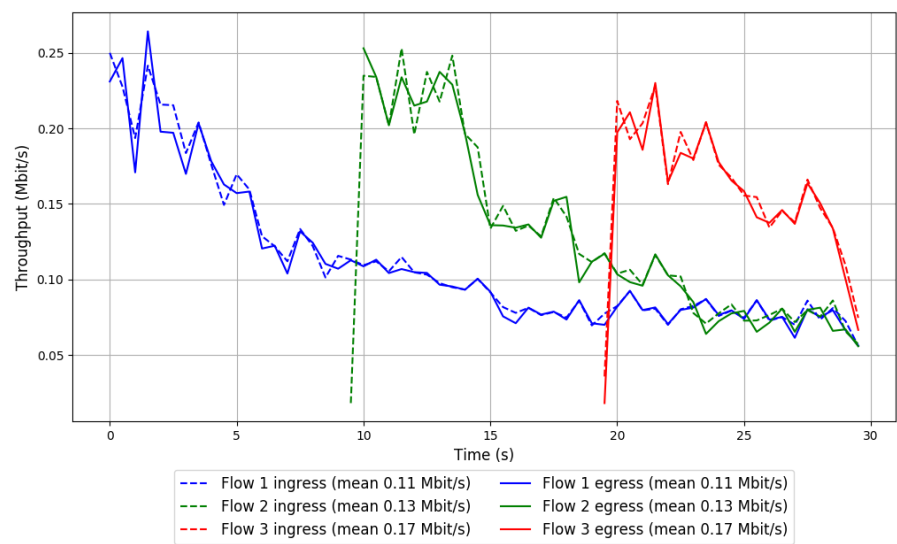


Run 3: Statistics of SCReAM

Start at: 2018-01-02 08:20:07
End at: 2018-01-02 08:20:37
Local clock offset: 0.134 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 31.724 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 31.604 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 31.820 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 31.727 ms
Loss rate: 2.20%

Run 3: Report of SReAM — Data Link

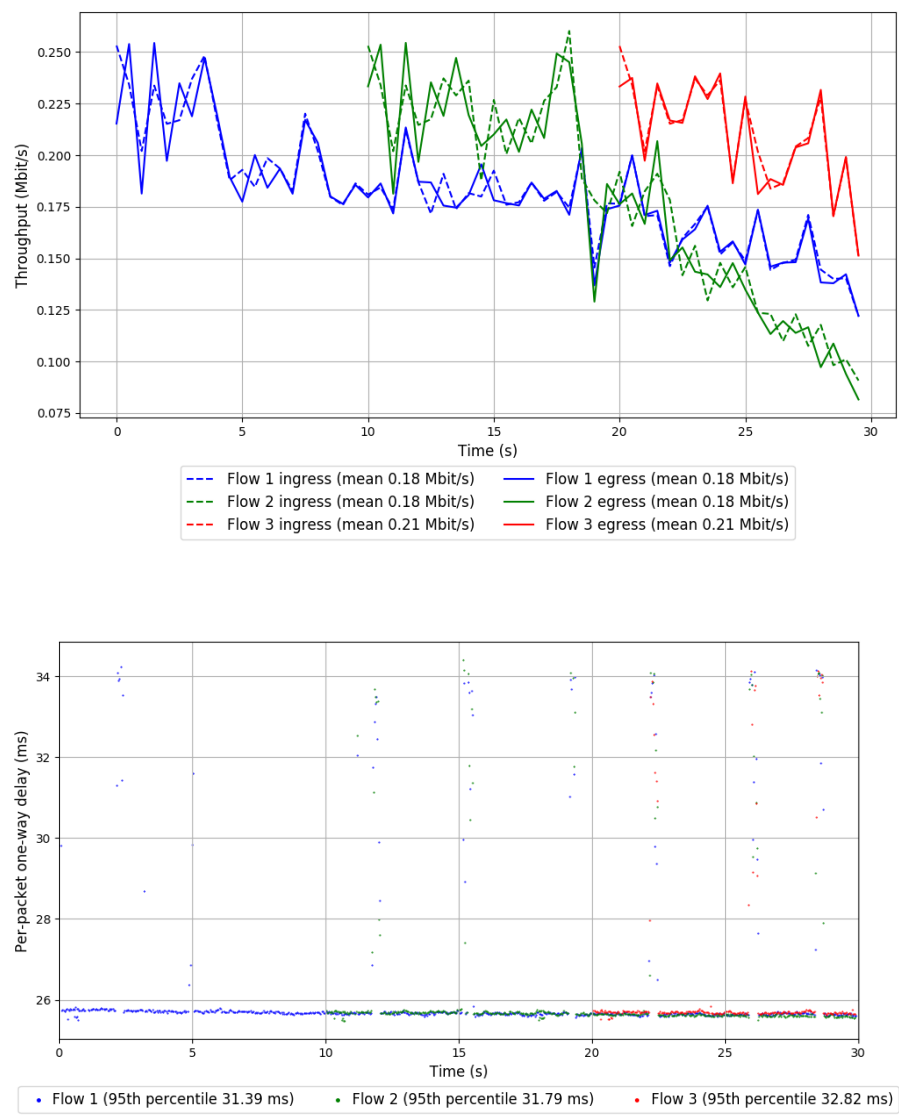


Run 4: Statistics of SCReAM

Start at: 2018-01-02 08:42:37
End at: 2018-01-02 08:43:07
Local clock offset: 0.197 ms
Remote clock offset: -1.122 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 31.614 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 31.387 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 31.793 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.818 ms
Loss rate: 0.75%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-02 09:03:50

End at: 2018-01-02 09:04:20

Local clock offset: 0.358 ms

Remote clock offset: 2.147 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 23.278 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.286 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.267 ms

Loss rate: 0.22%

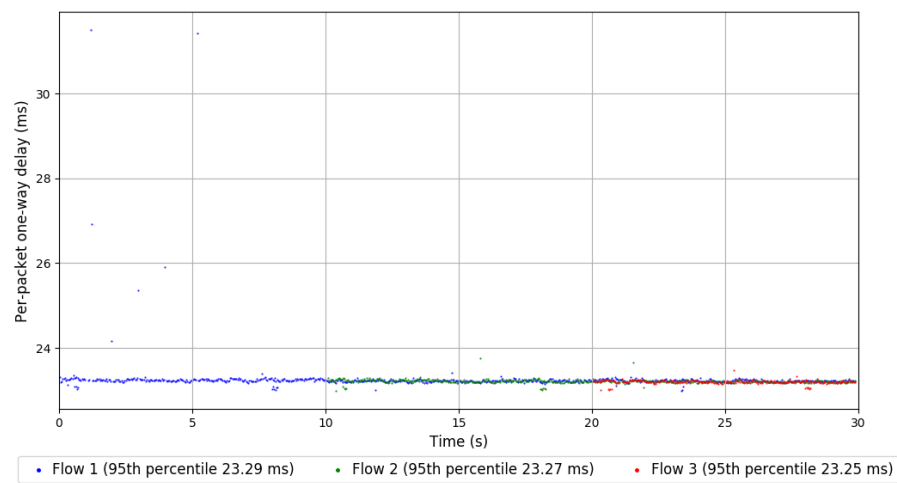
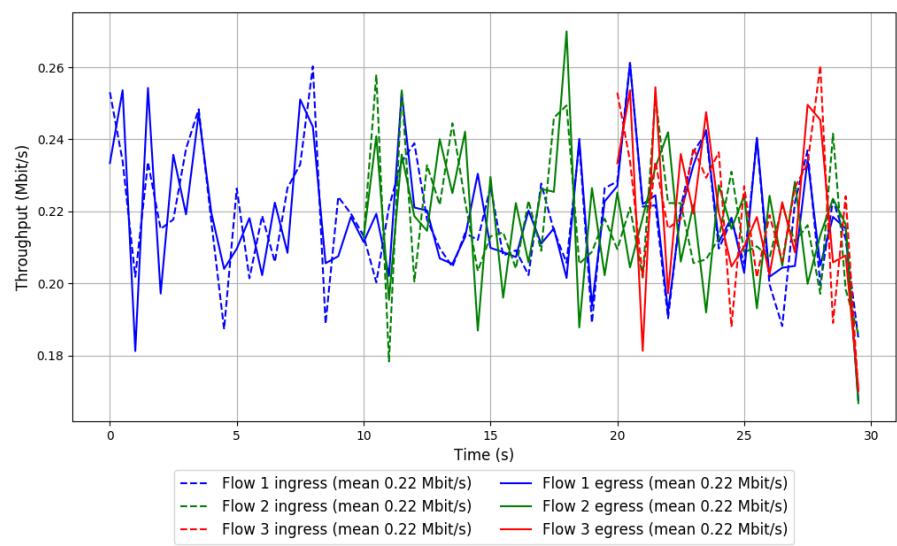
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.252 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-02 09:24:29

End at: 2018-01-02 09:24:59

Local clock offset: 0.246 ms

Remote clock offset: 2.75 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 23.221 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 23.236 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 23.195 ms

Loss rate: 0.19%

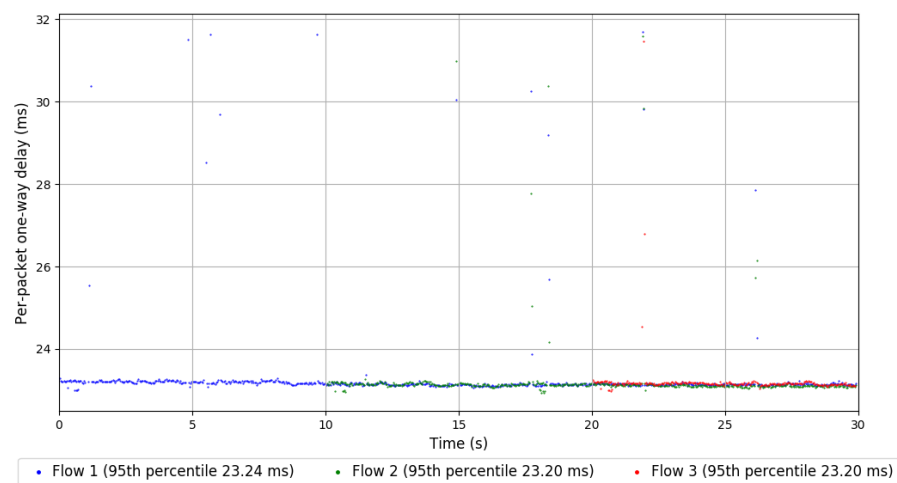
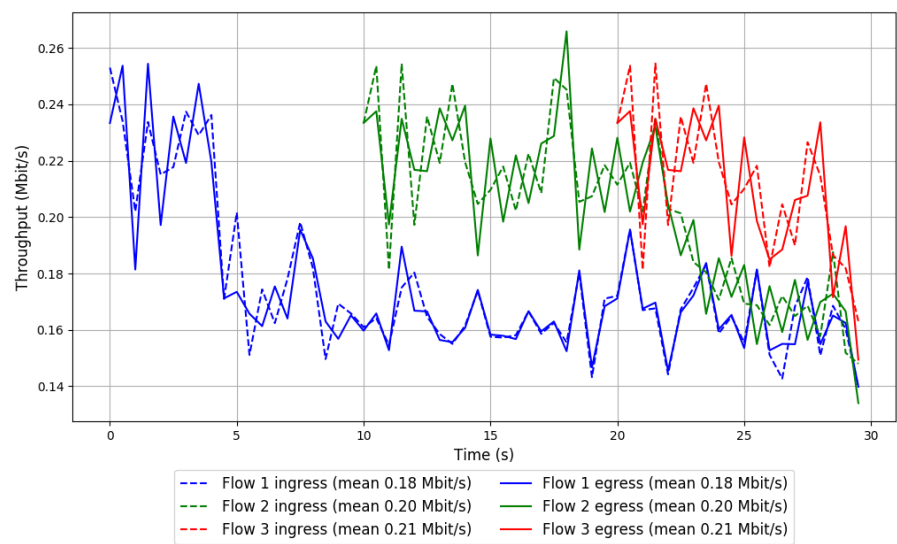
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 23.205 ms

Loss rate: 0.72%

Run 6: Report of SReAM — Data Link

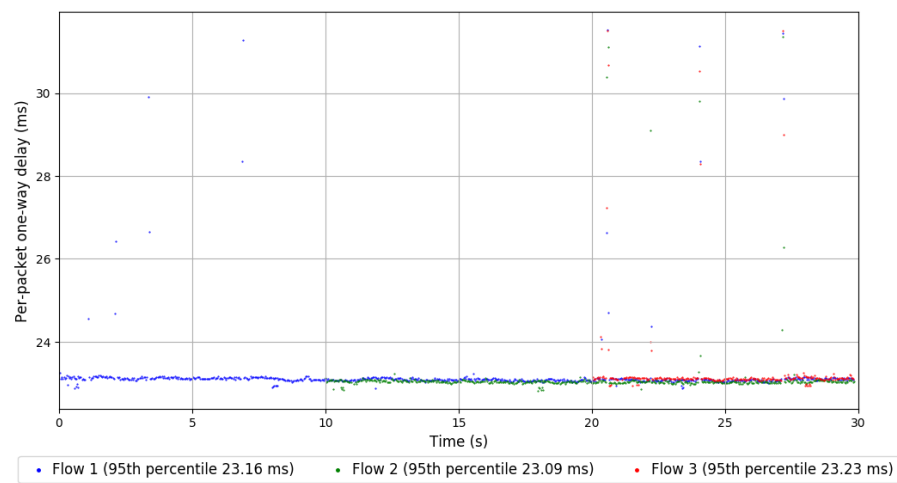
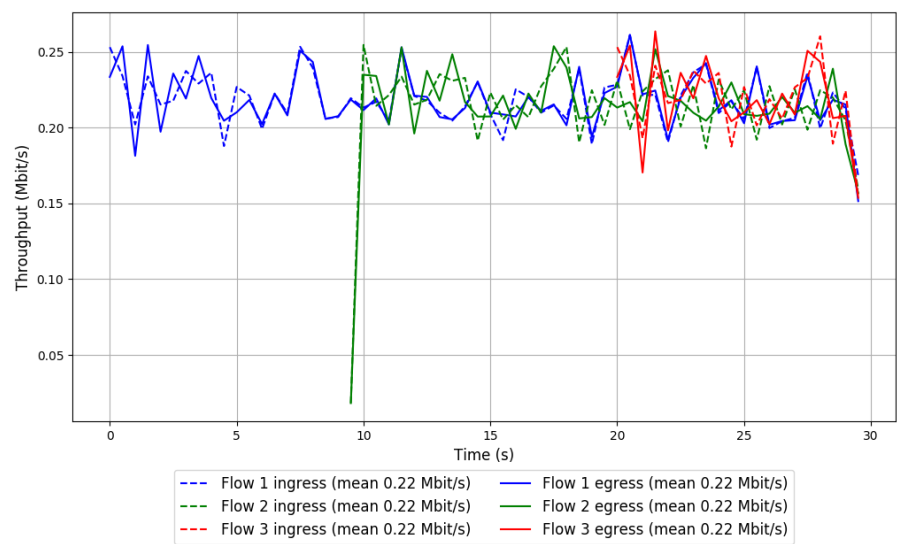


Run 7: Statistics of SReAM

Start at: 2018-01-02 09:45:33
End at: 2018-01-02 09:46:03
Local clock offset: 0.281 ms
Remote clock offset: 3.398 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.154 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.156 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.085 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.228 ms
Loss rate: 0.39%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-02 10:06:12

End at: 2018-01-02 10:06:42

Local clock offset: 0.489 ms

Remote clock offset: 2.788 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 23.744 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 23.728 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 23.720 ms

Loss rate: 0.95%

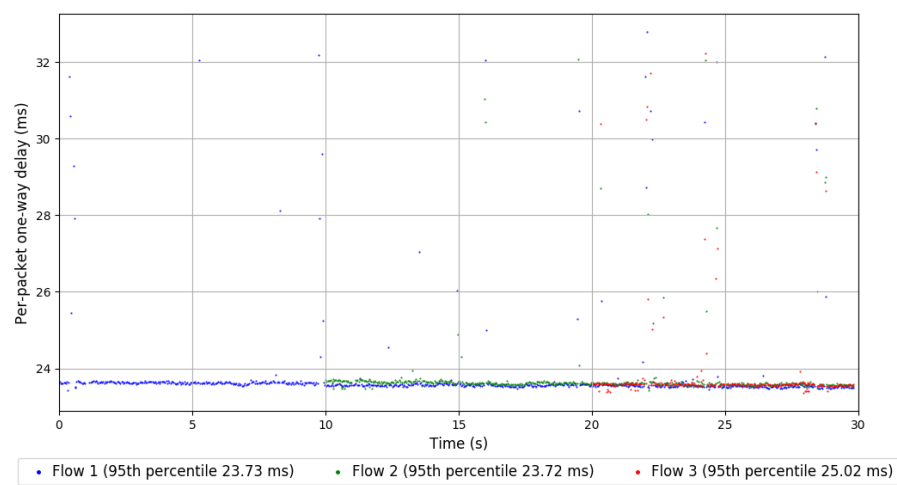
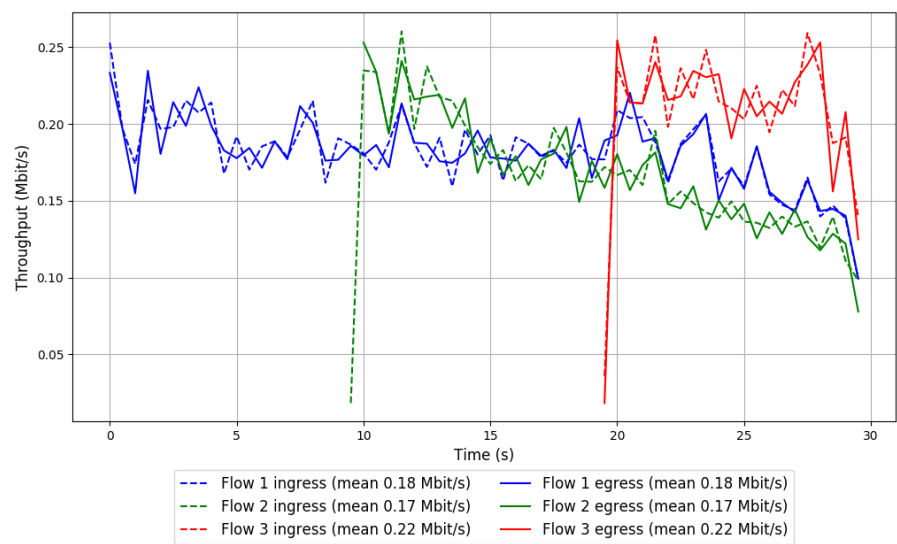
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.018 ms

Loss rate: 0.67%

Run 8: Report of SReAM — Data Link

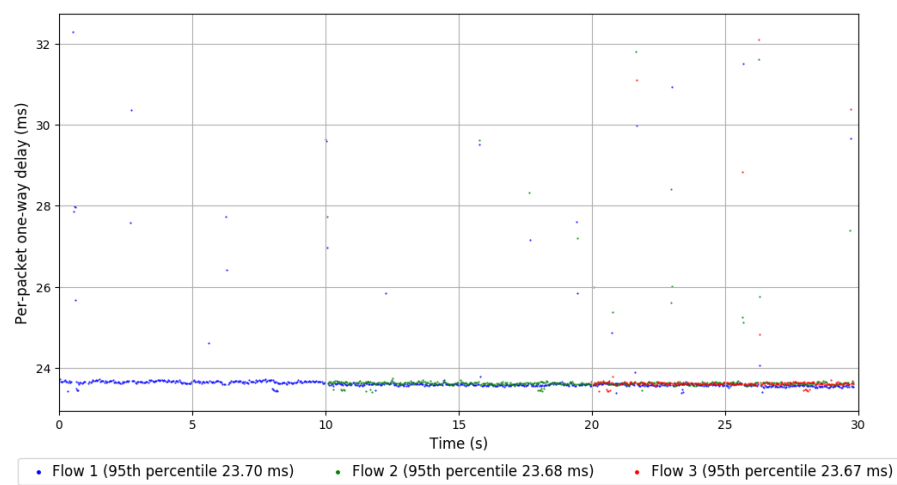
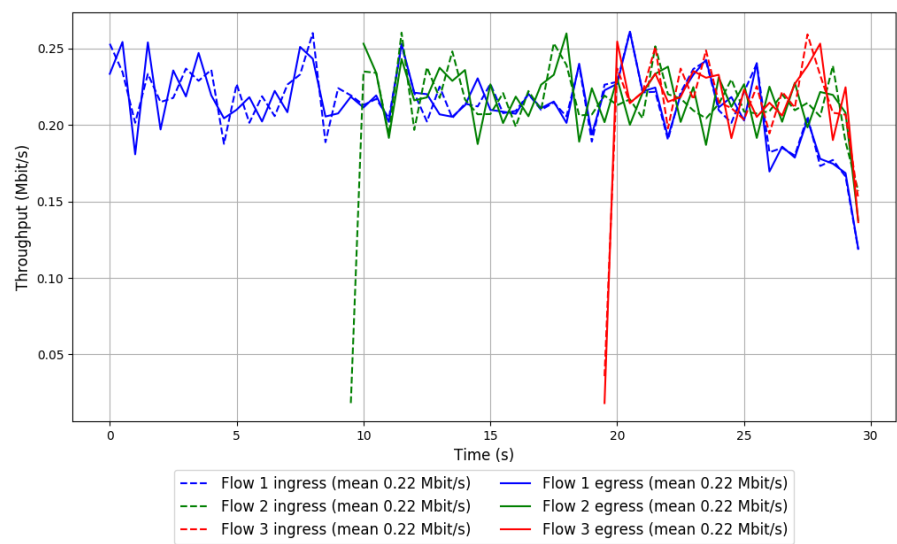


Run 9: Statistics of SReAM

Start at: 2018-01-02 10:26:58
End at: 2018-01-02 10:27:28
Local clock offset: 0.493 ms
Remote clock offset: 2.467 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 23.698 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.704 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.677 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.669 ms
Loss rate: 0.35%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-02 10:47:33

End at: 2018-01-02 10:48:03

Local clock offset: 0.669 ms

Remote clock offset: 1.087 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 23.535 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 23.544 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.521 ms

Loss rate: 0.40%

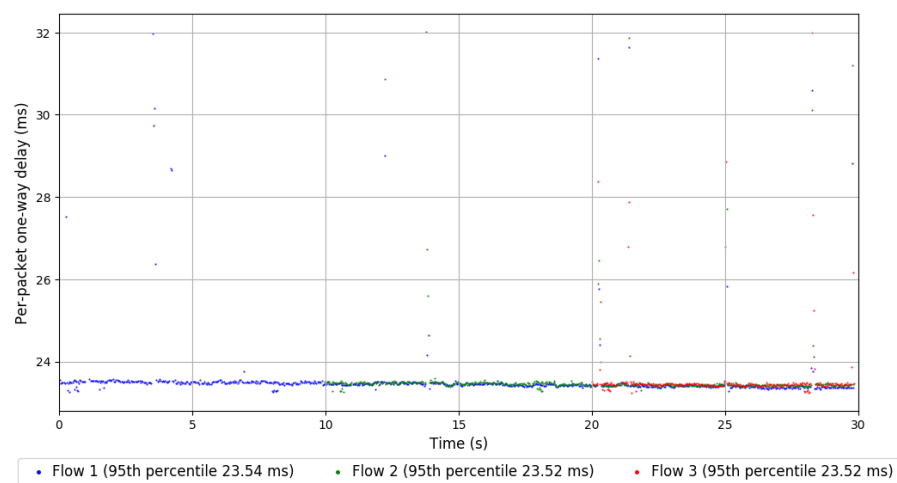
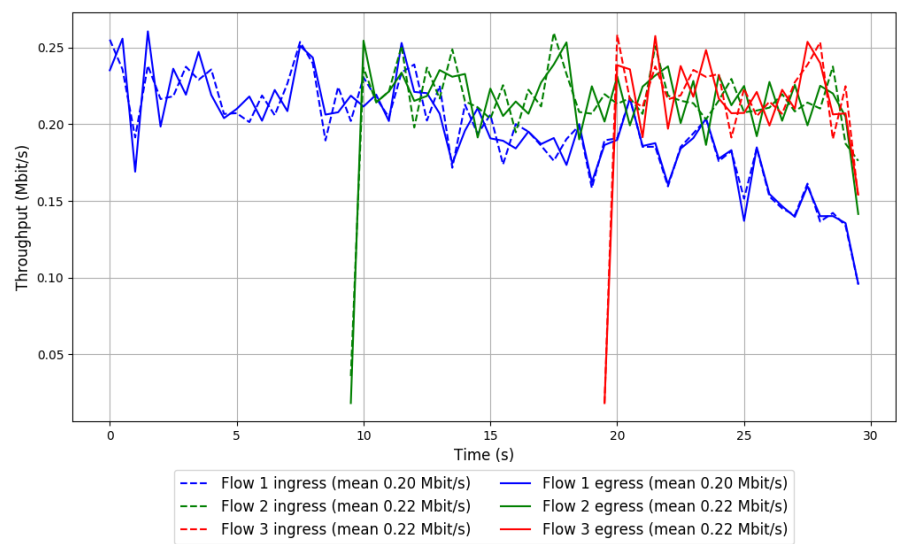
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.522 ms

Loss rate: 0.35%

Run 10: Report of SCReAM — Data Link

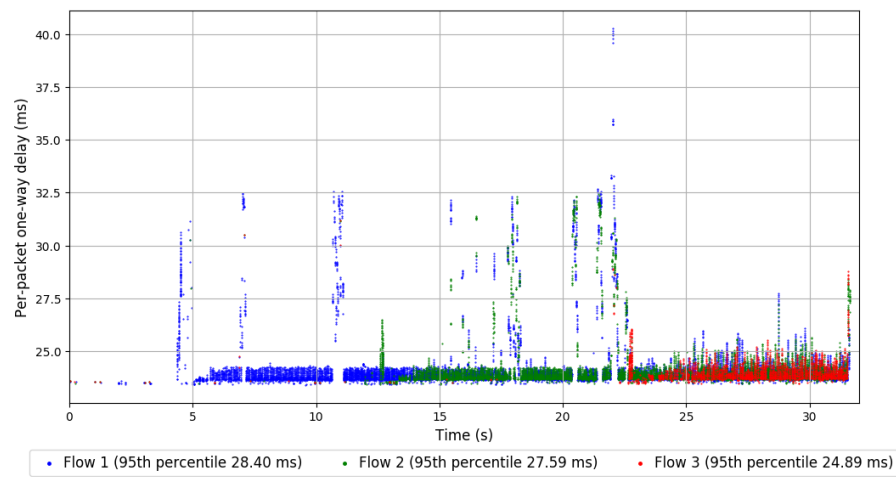
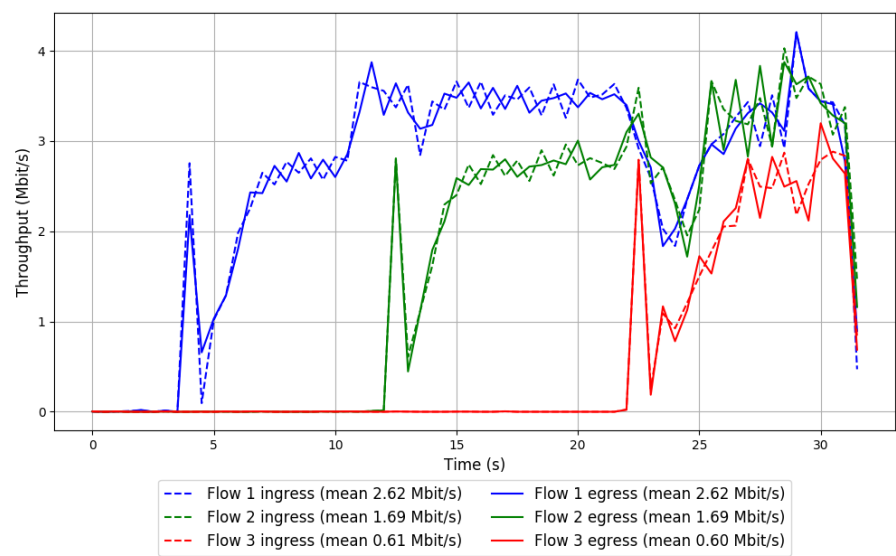


Run 1: Statistics of WebRTC media

Start at: 2018-01-02 07:34:30
End at: 2018-01-02 07:35:00
Local clock offset: 0.11 ms
Remote clock offset: -1.269 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 27.541 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 28.400 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 27.587 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 24.886 ms
Loss rate: 1.08%

Run 1: Report of WebRTC media — Data Link

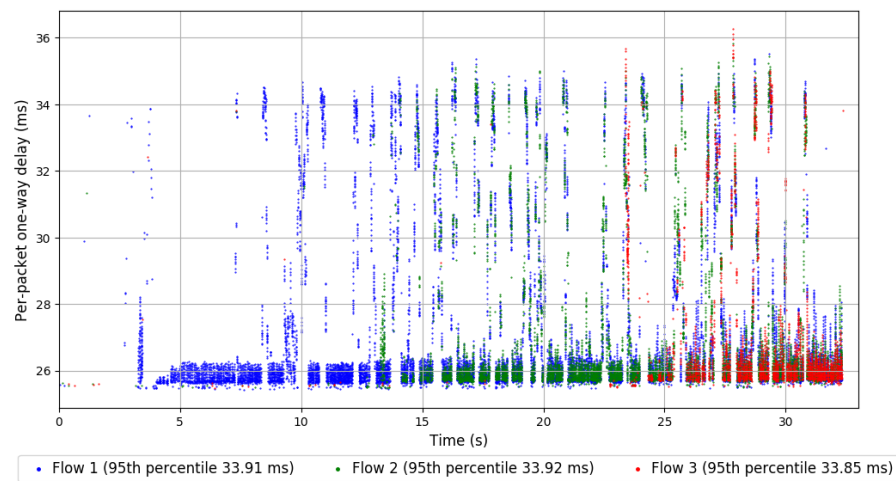
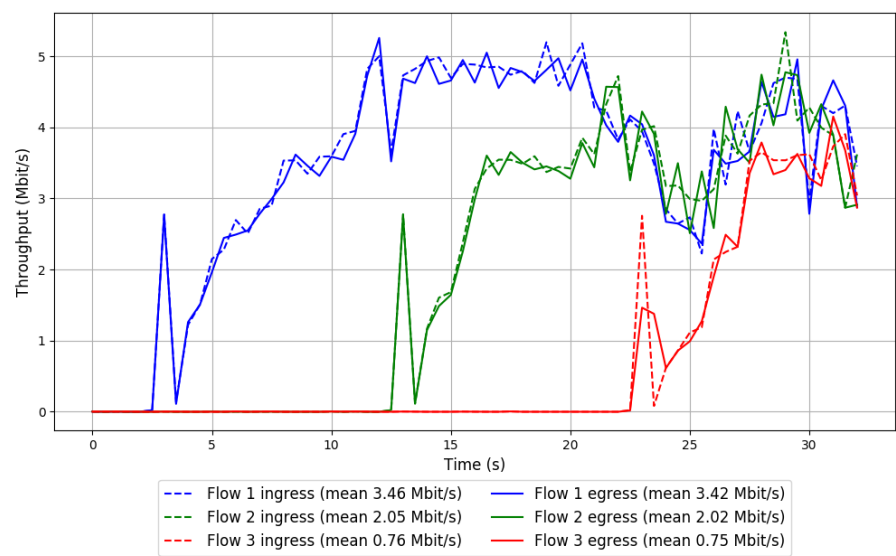


Run 2: Statistics of WebRTC media

Start at: 2018-01-02 07:55:17
End at: 2018-01-02 07:55:47
Local clock offset: 0.013 ms
Remote clock offset: -3.163 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 33.906 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 33.907 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 33.923 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 33.846 ms
Loss rate: 1.62%

Run 2: Report of WebRTC media — Data Link

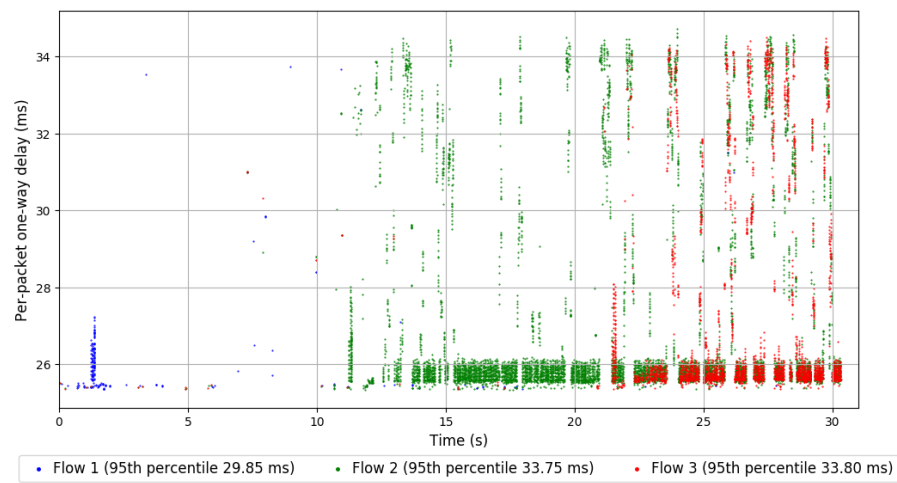
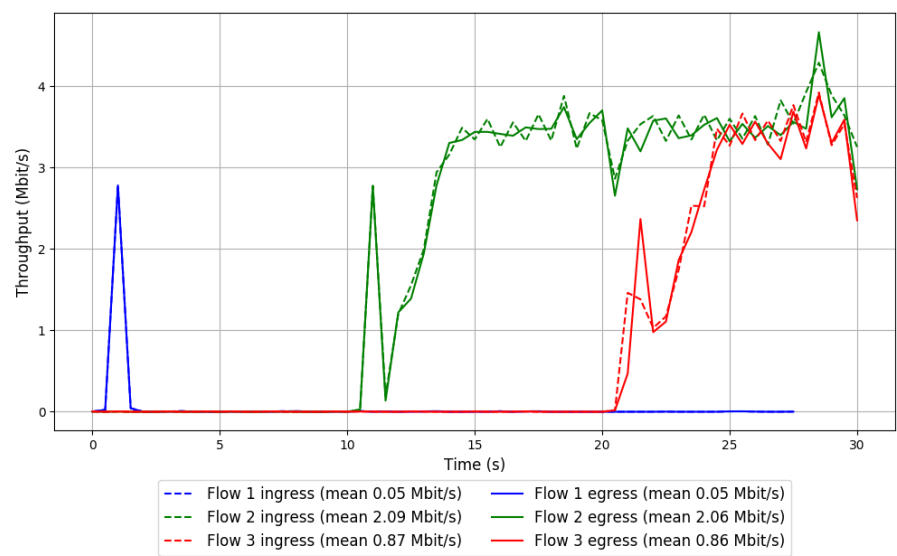


Run 3: Statistics of WebRTC media

Start at: 2018-01-02 08:18:49
End at: 2018-01-02 08:19:19
Local clock offset: 0.128 ms
Remote clock offset: -2.185 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 33.763 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 29.851 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 33.754 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 33.805 ms
Loss rate: 2.17%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 08:41:19

End at: 2018-01-02 08:41:49

Local clock offset: 0.176 ms

Remote clock offset: 0.761 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 24.803 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 24.697 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 24.870 ms

Loss rate: 0.40%

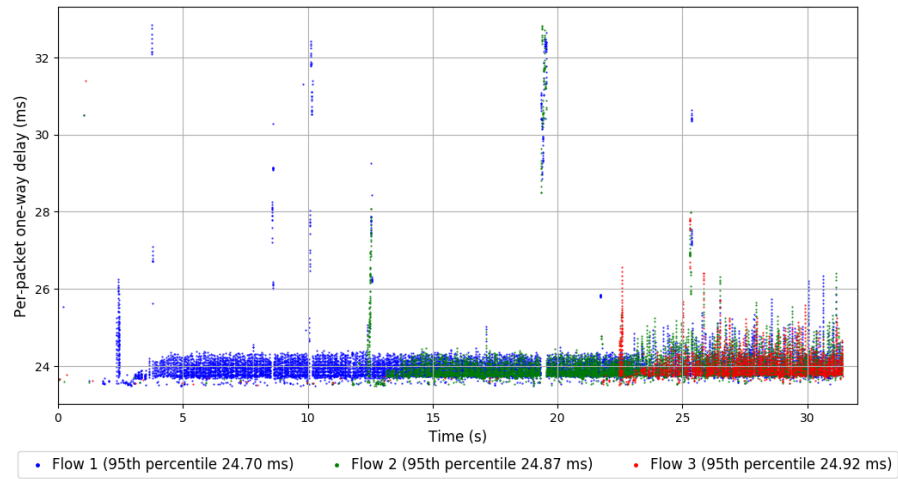
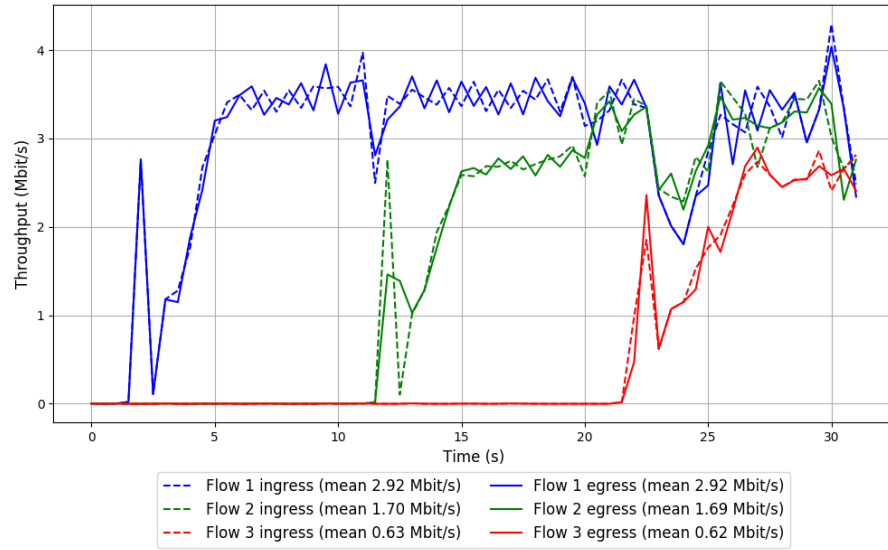
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 24.923 ms

Loss rate: 1.04%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 09:02:33

End at: 2018-01-02 09:03:03

Local clock offset: 0.259 ms

Remote clock offset: 2.215 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 23.910 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 23.746 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 24.085 ms

Loss rate: 0.02%

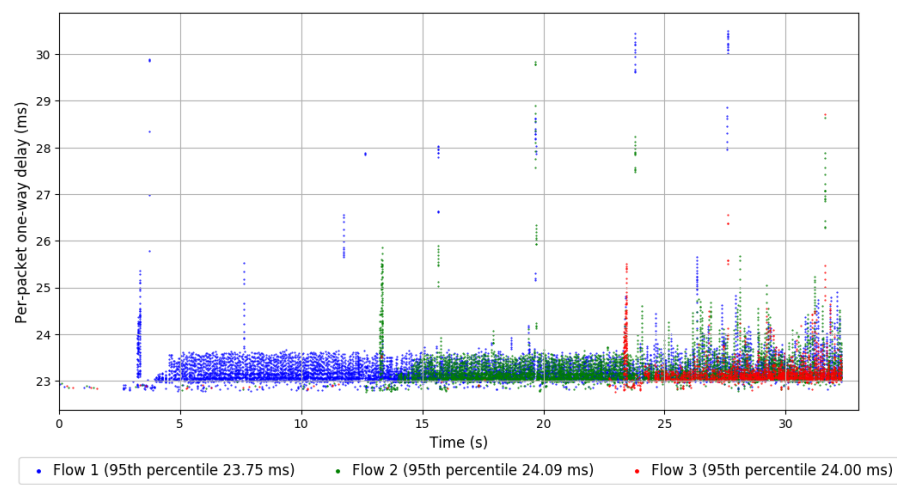
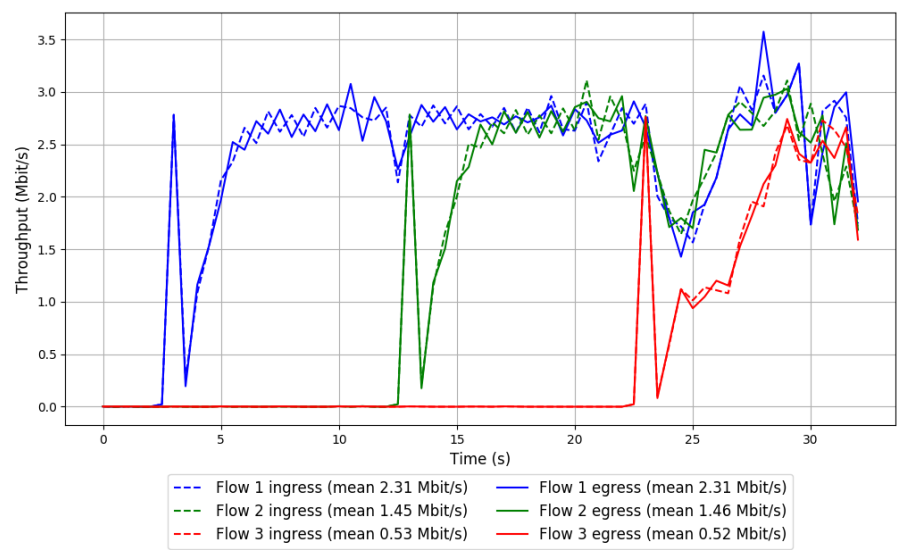
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 23.997 ms

Loss rate: 1.48%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 09:23:10

End at: 2018-01-02 09:23:40

Local clock offset: 0.27 ms

Remote clock offset: 0.36 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 26.855 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 26.601 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 26.800 ms

Loss rate: 0.70%

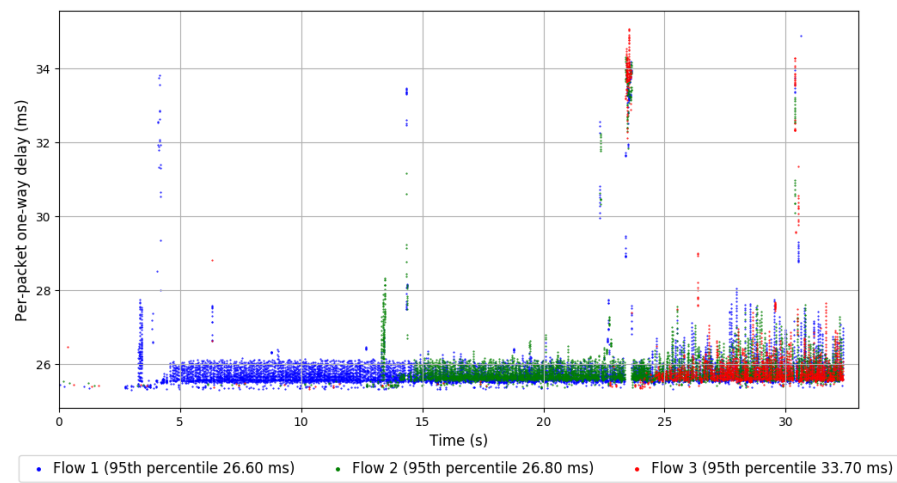
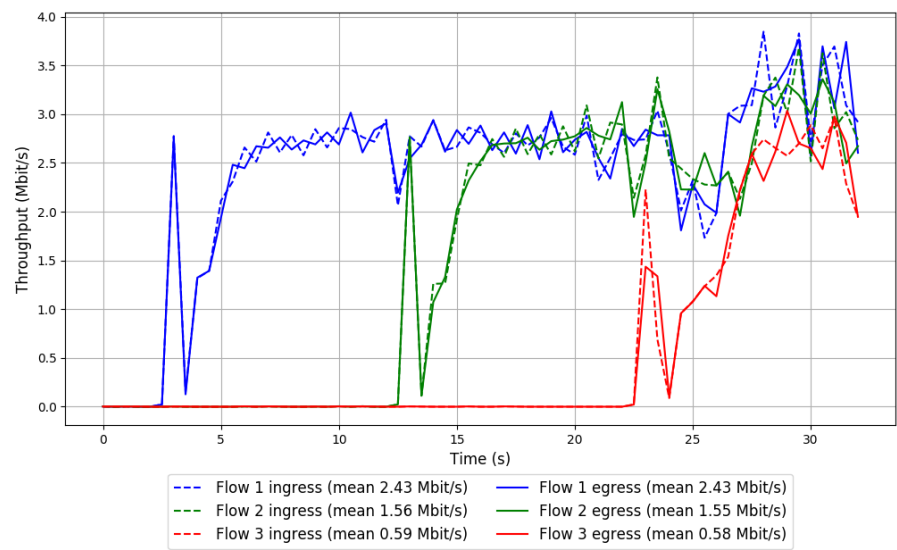
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 33.697 ms

Loss rate: 0.41%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-02 09:44:16

End at: 2018-01-02 09:44:46

Local clock offset: 0.294 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 26.752 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 26.592 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 26.805 ms

Loss rate: 0.41%

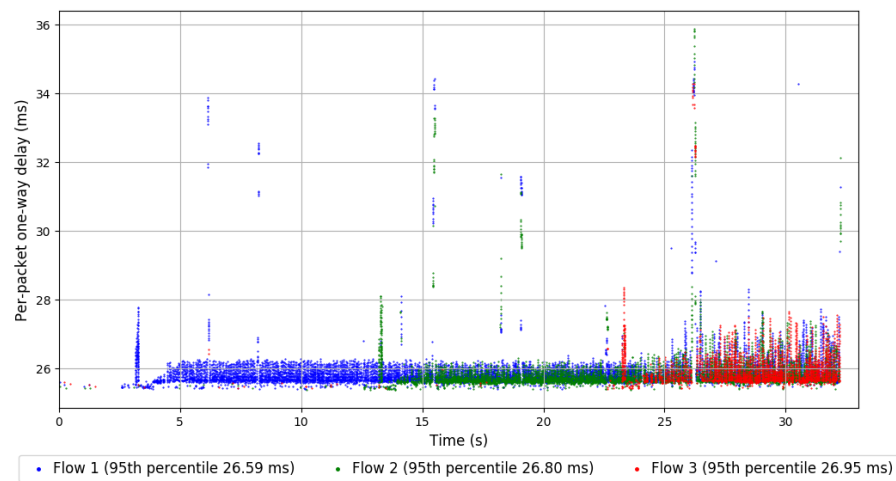
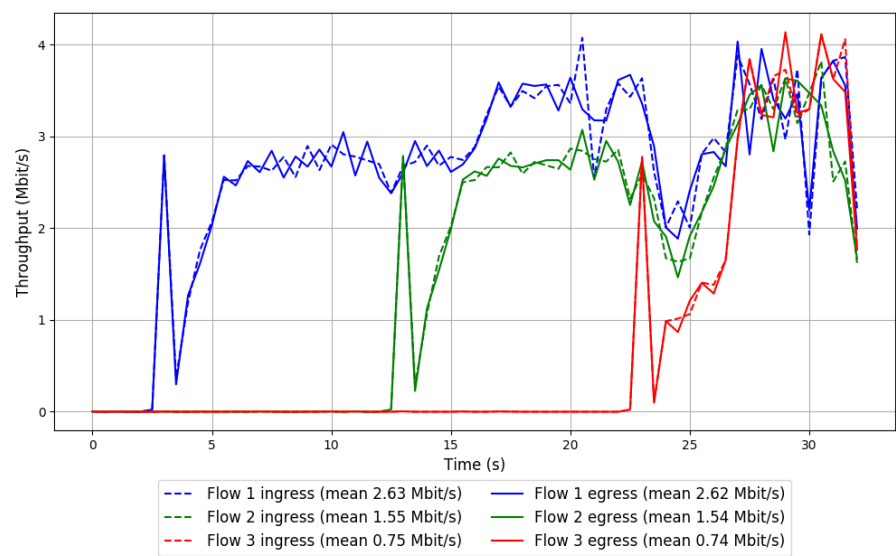
-- Flow 3:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 26.945 ms

Loss rate: 1.39%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 10:04:54

End at: 2018-01-02 10:05:24

Local clock offset: 0.397 ms

Remote clock offset: 3.301 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 24.317 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 23.963 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 24.454 ms

Loss rate: 0.27%

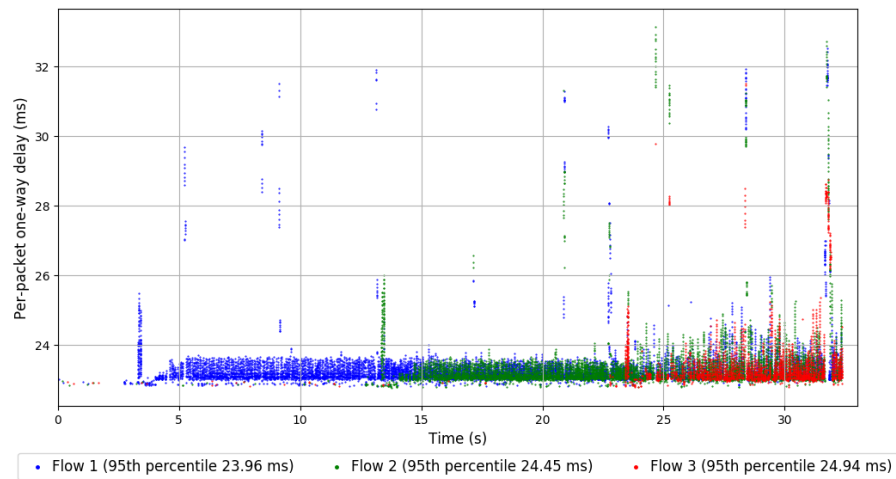
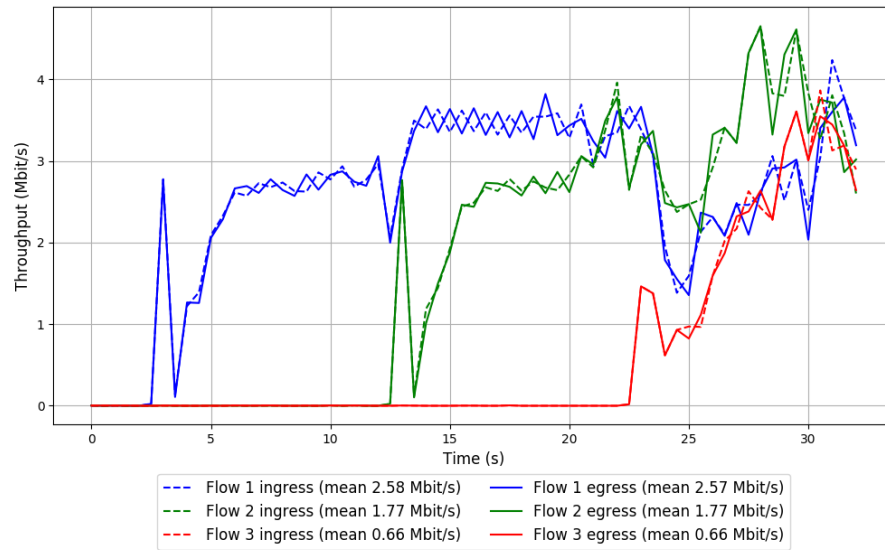
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 24.941 ms

Loss rate: 0.69%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 10:25:41

End at: 2018-01-02 10:26:11

Local clock offset: 0.585 ms

Remote clock offset: 2.458 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 24.573 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 24.467 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 24.486 ms

Loss rate: 0.73%

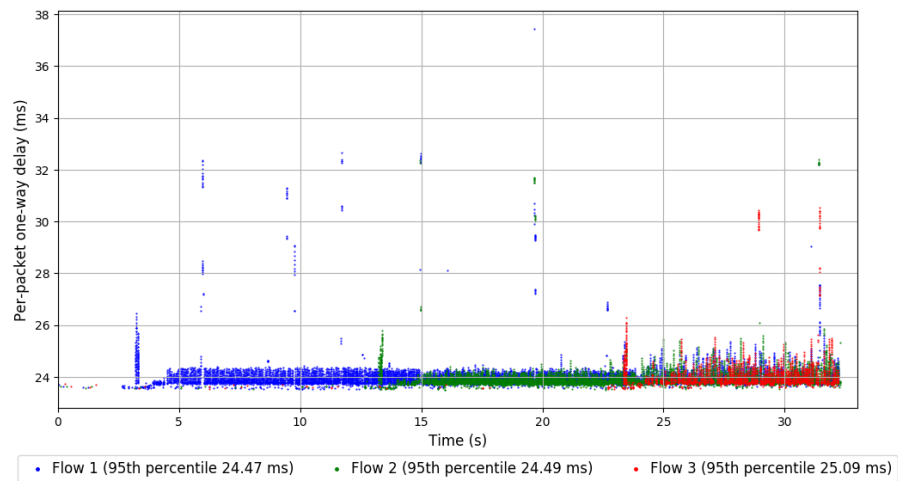
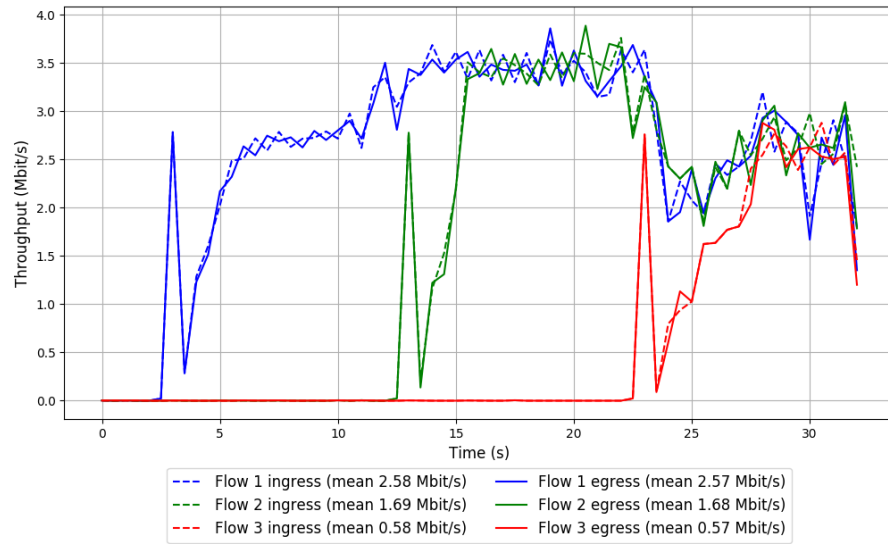
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 25.086 ms

Loss rate: 1.57%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 10:46:15

End at: 2018-01-02 10:46:45

Local clock offset: 0.732 ms

Remote clock offset: 1.629 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 24.079 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 23.963 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 24.052 ms

Loss rate: 0.86%

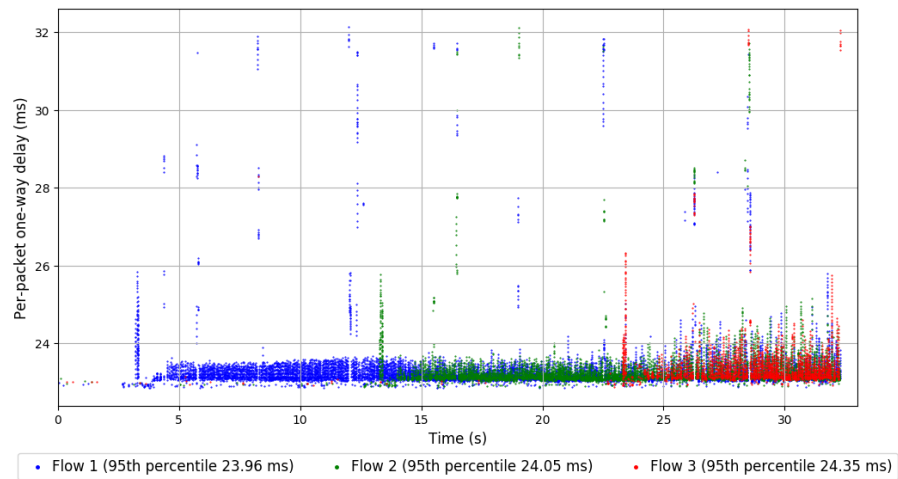
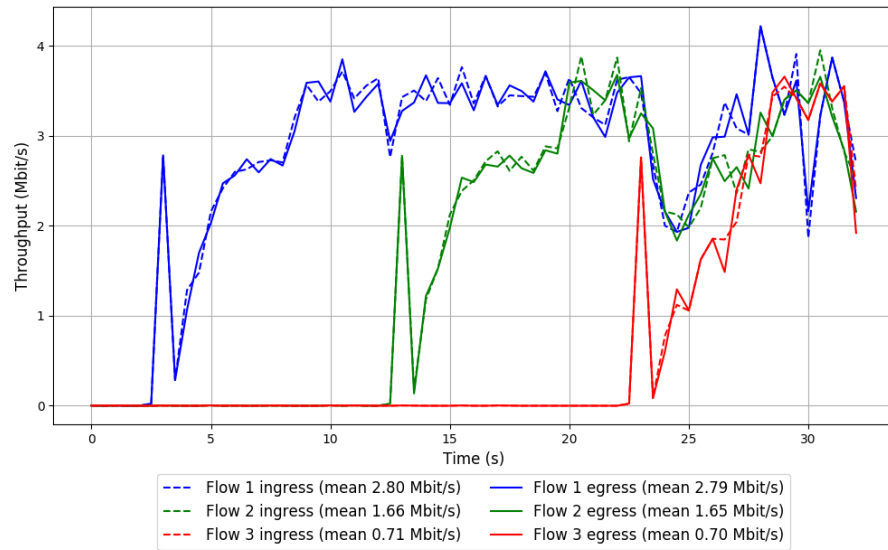
-- Flow 3:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 24.349 ms

Loss rate: 1.36%

Run 10: Report of WebRTC media — Data Link

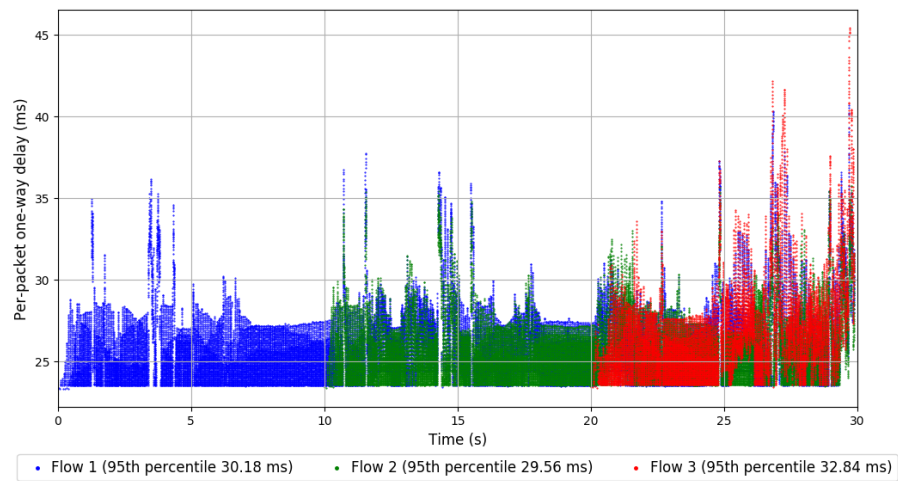
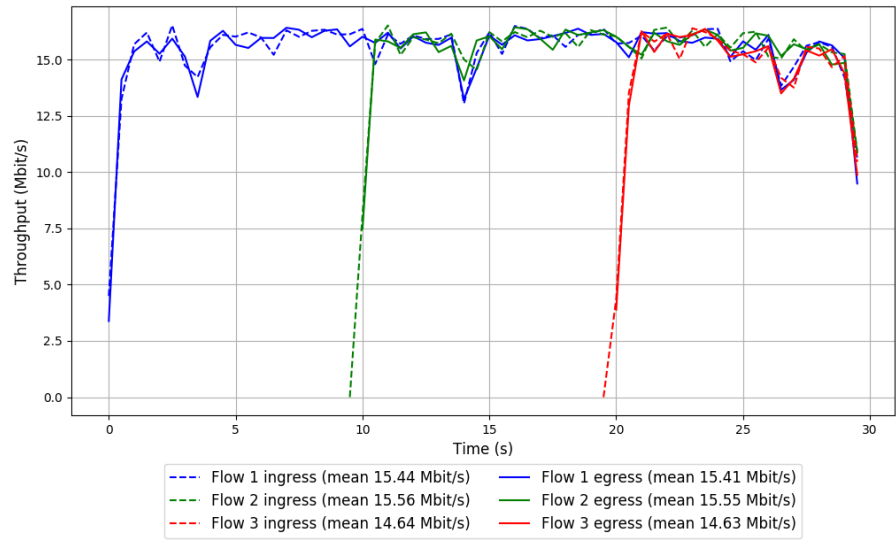


Run 1: Statistics of Sprout

Start at: 2018-01-02 07:26:07
End at: 2018-01-02 07:26:37
Local clock offset: 0.131 ms
Remote clock offset: -1.168 ms

Below is generated by plot.py at 2018-01-02 14:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 30.461 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 15.41 Mbit/s
95th percentile per-packet one-way delay: 30.176 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 29.564 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 32.837 ms
Loss rate: 0.63%

Run 1: Report of Sprout — Data Link

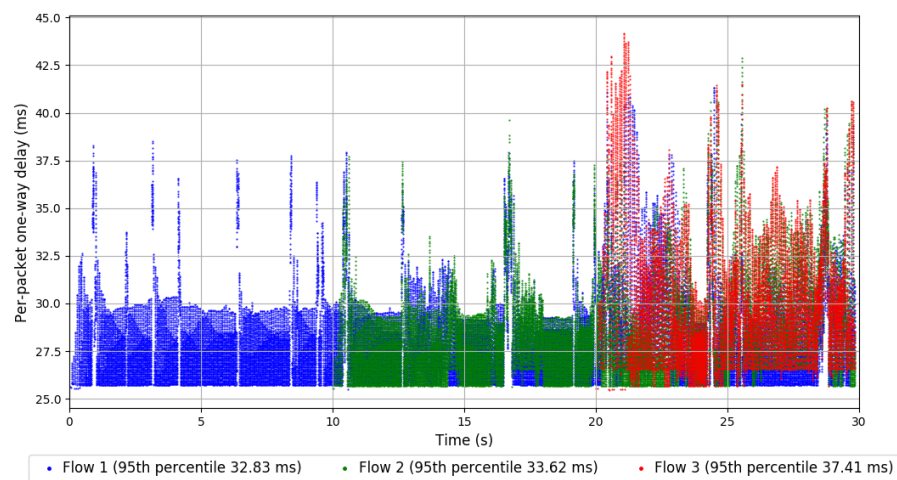
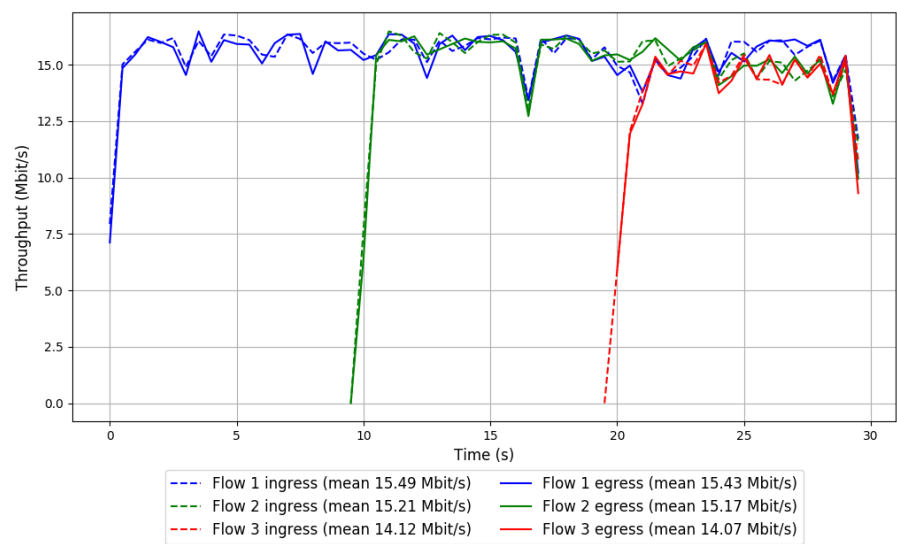


Run 2: Statistics of Sprout

Start at: 2018-01-02 07:46:47
End at: 2018-01-02 07:47:18
Local clock offset: 0.136 ms
Remote clock offset: -3.246 ms

```
# Below is generated by plot.py at 2018-01-02 14:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 34.142 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 15.43 Mbit/s
95th percentile per-packet one-way delay: 32.828 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 15.17 Mbit/s
95th percentile per-packet one-way delay: 33.621 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 14.07 Mbit/s
95th percentile per-packet one-way delay: 37.409 ms
Loss rate: 0.88%
```

Run 2: Report of Sprout — Data Link

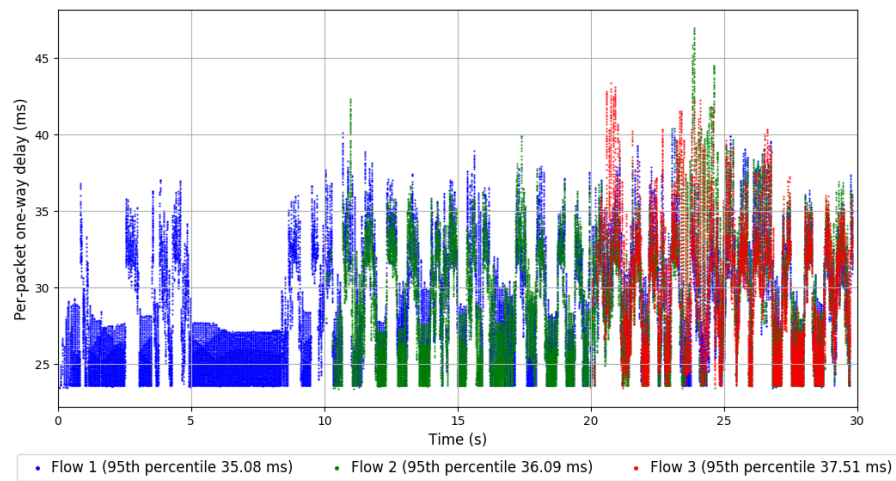
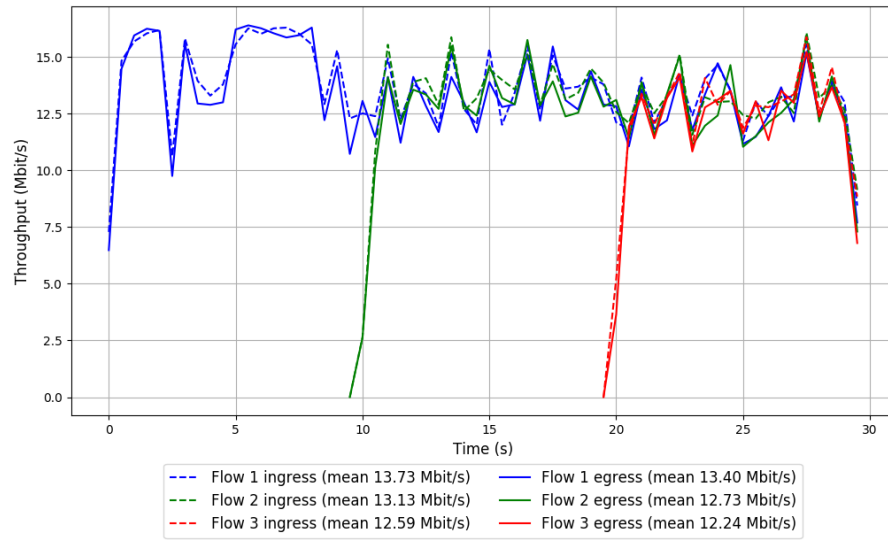


Run 3: Statistics of Sprout

Start at: 2018-01-02 08:09:44
End at: 2018-01-02 08:10:14
Local clock offset: 0.167 ms
Remote clock offset: -0.59 ms

```
# Below is generated by plot.py at 2018-01-02 14:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 35.759 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 35.080 ms
Loss rate: 2.55%
-- Flow 2:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 36.087 ms
Loss rate: 3.21%
-- Flow 3:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 37.508 ms
Loss rate: 3.50%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 08:32:47

End at: 2018-01-02 08:33:17

Local clock offset: 0.059 ms

Remote clock offset: 0.92 ms

Below is generated by plot.py at 2018-01-02 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 28.767 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 28.899 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 28.838 ms

Loss rate: 0.59%

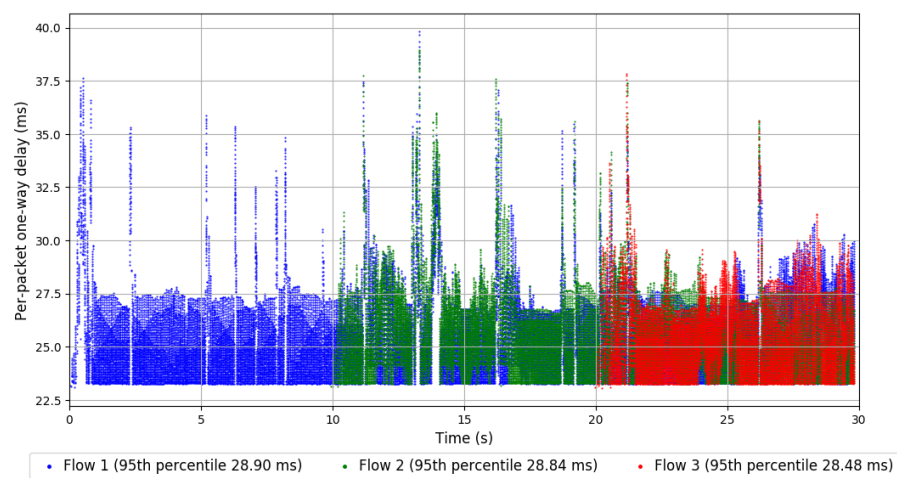
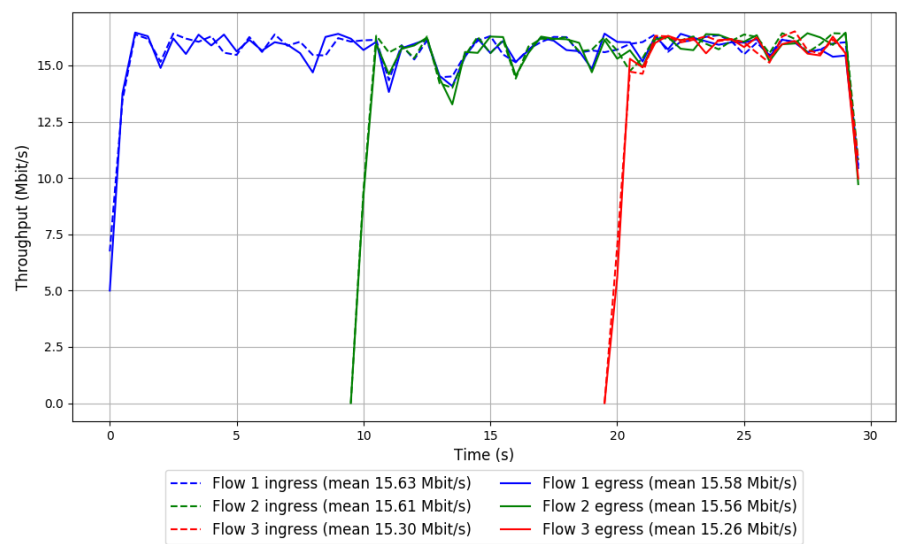
-- Flow 3:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 28.484 ms

Loss rate: 0.82%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 08:54:18

End at: 2018-01-02 08:54:48

Local clock offset: 0.235 ms

Remote clock offset: 1.377 ms

Below is generated by plot.py at 2018-01-02 14:26:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 31.856 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 31.607 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 32.209 ms

Loss rate: 0.67%

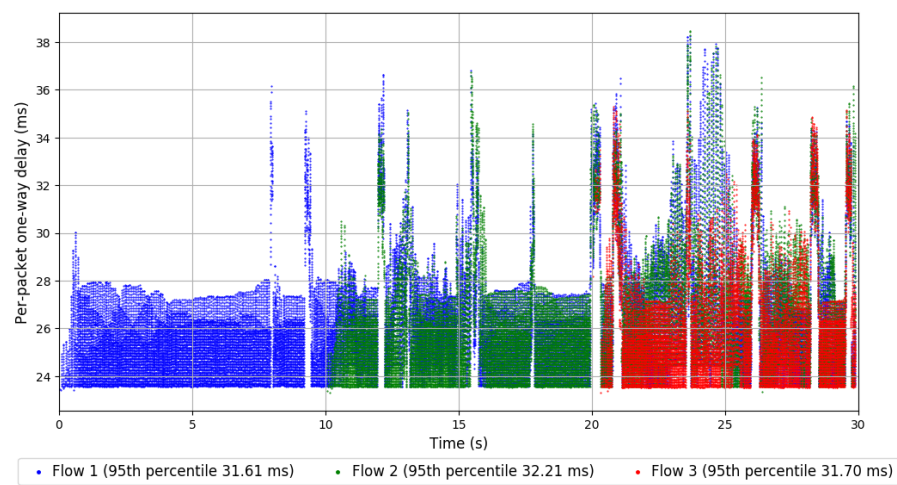
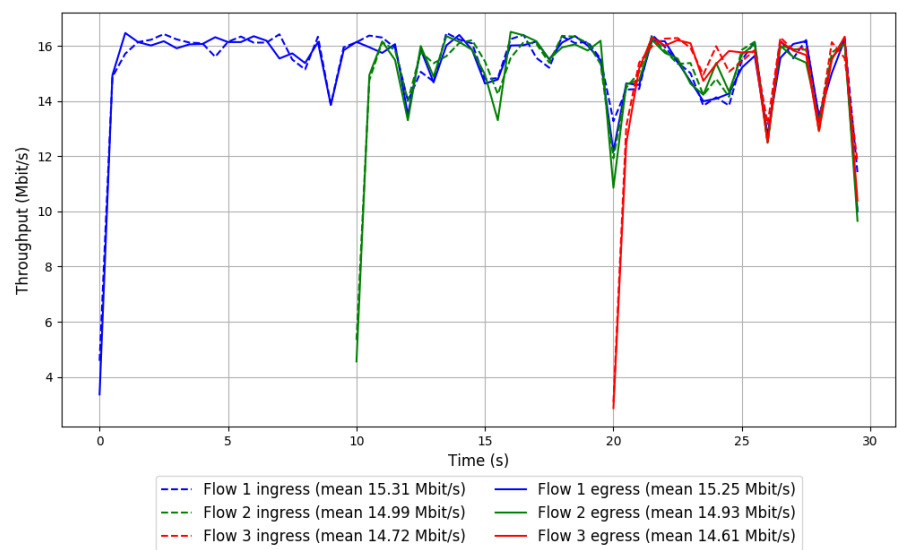
-- Flow 3:

Average throughput: 14.61 Mbit/s

95th percentile per-packet one-way delay: 31.695 ms

Loss rate: 1.15%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 09:14:57

End at: 2018-01-02 09:15:27

Local clock offset: 0.349 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-01-02 14:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 31.150 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 30.404 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 31.177 ms

Loss rate: 0.38%

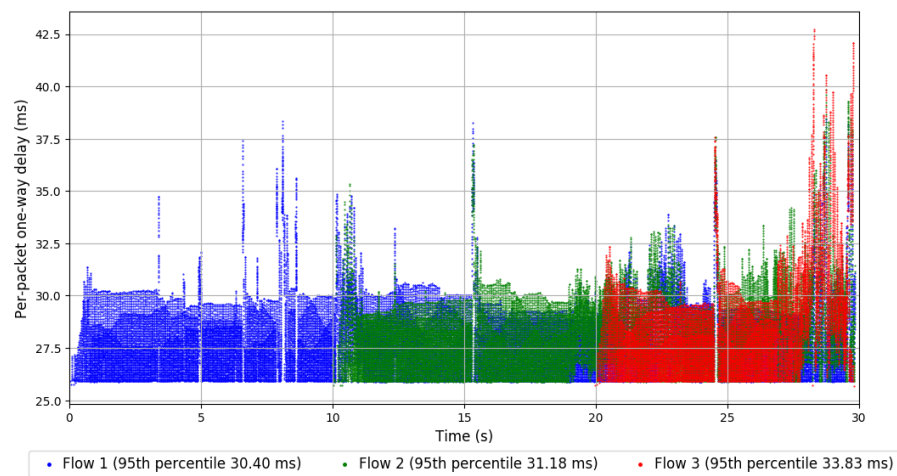
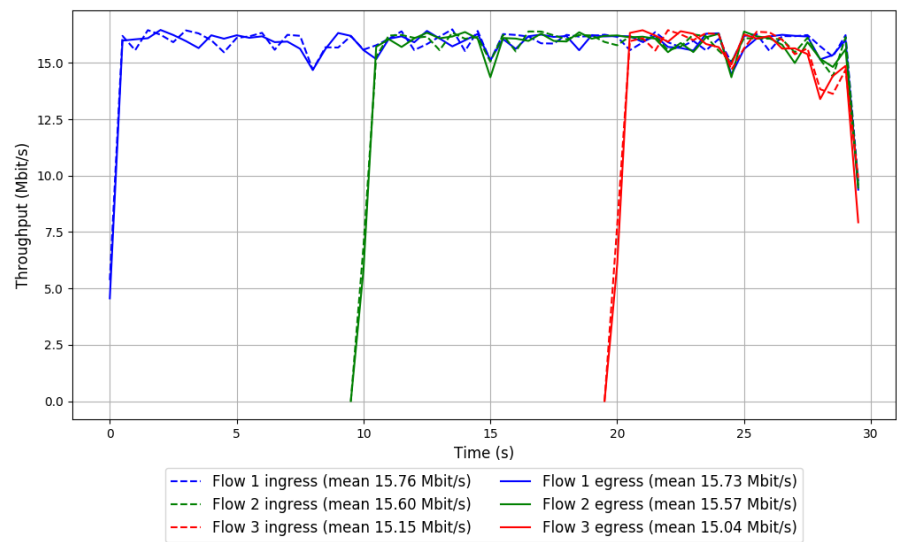
-- Flow 3:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 33.829 ms

Loss rate: 0.98%

Run 6: Report of Sprout — Data Link

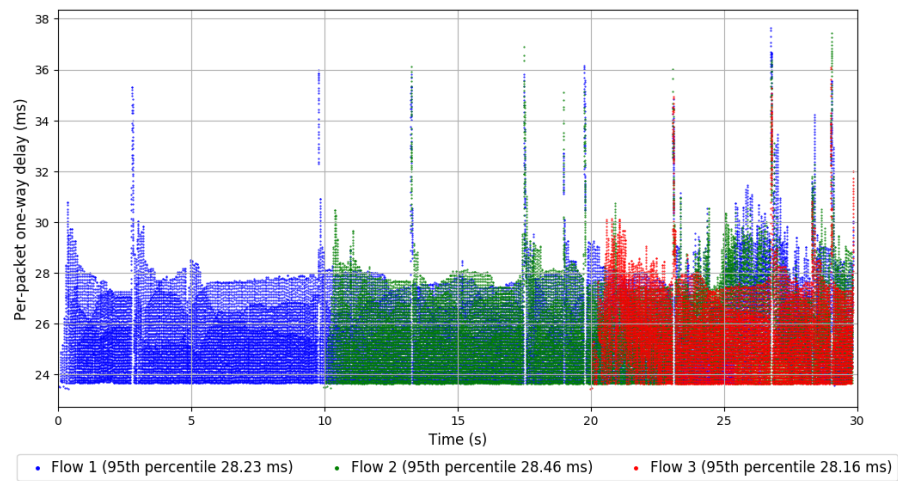
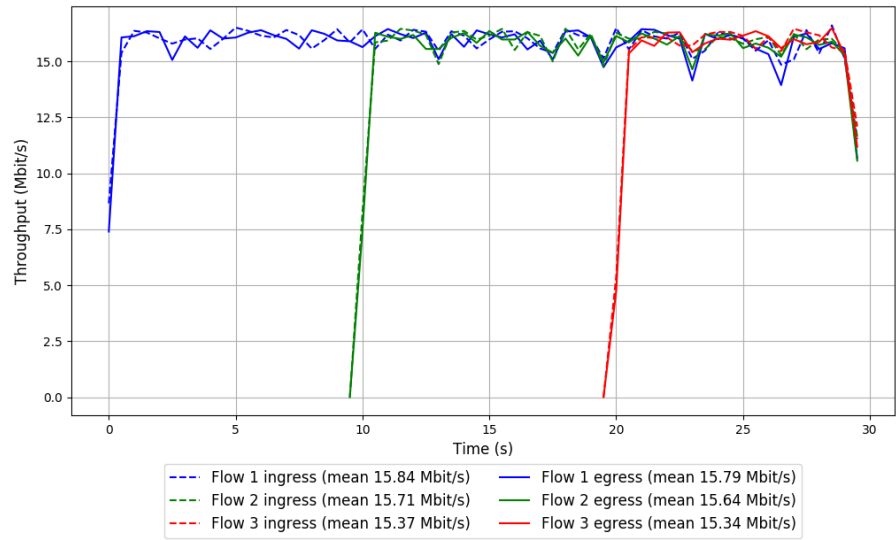


Run 7: Statistics of Sprout

Start at: 2018-01-02 09:36:00
End at: 2018-01-02 09:36:30
Local clock offset: 0.379 ms
Remote clock offset: 2.817 ms

```
# Below is generated by plot.py at 2018-01-02 14:27:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 28.310 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 28.235 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 28.458 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 15.34 Mbit/s
95th percentile per-packet one-way delay: 28.156 ms
Loss rate: 0.78%
```


Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-02 09:56:30

End at: 2018-01-02 09:57:00

Local clock offset: 0.317 ms

Remote clock offset: 3.398 ms

Below is generated by plot.py at 2018-01-02 14:27:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 28.899 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 28.582 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 28.657 ms

Loss rate: 0.47%

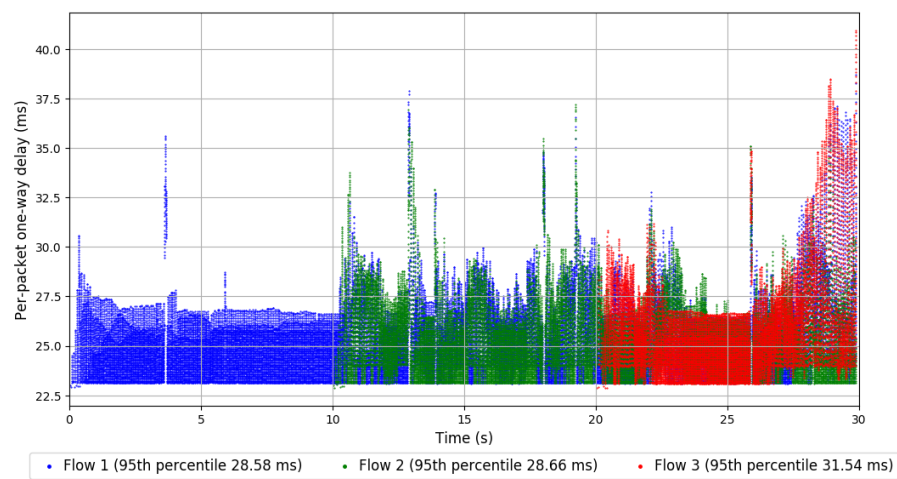
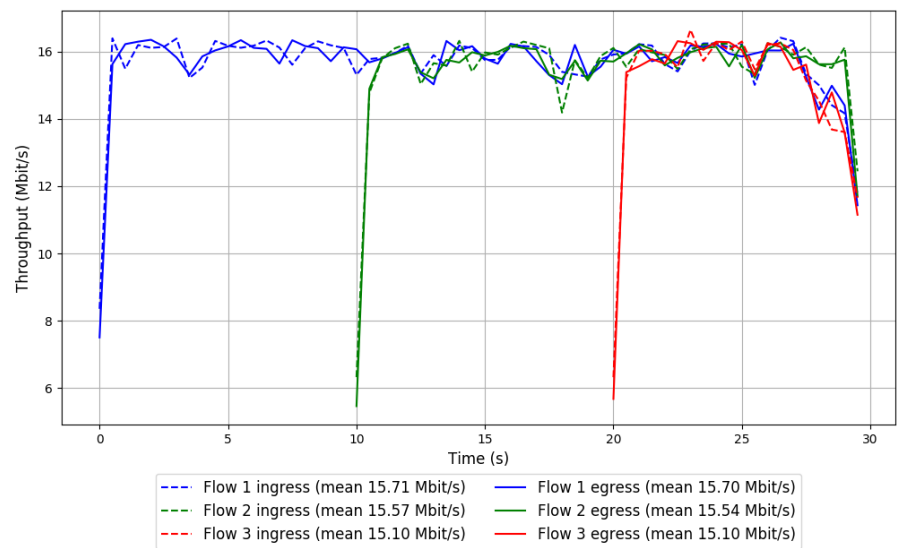
-- Flow 3:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 31.540 ms

Loss rate: 0.39%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-02 10:17:29

End at: 2018-01-02 10:17:59

Local clock offset: 0.45 ms

Remote clock offset: 3.029 ms

Below is generated by plot.py at 2018-01-02 14:27:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 28.736 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 28.499 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 28.370 ms

Loss rate: 0.58%

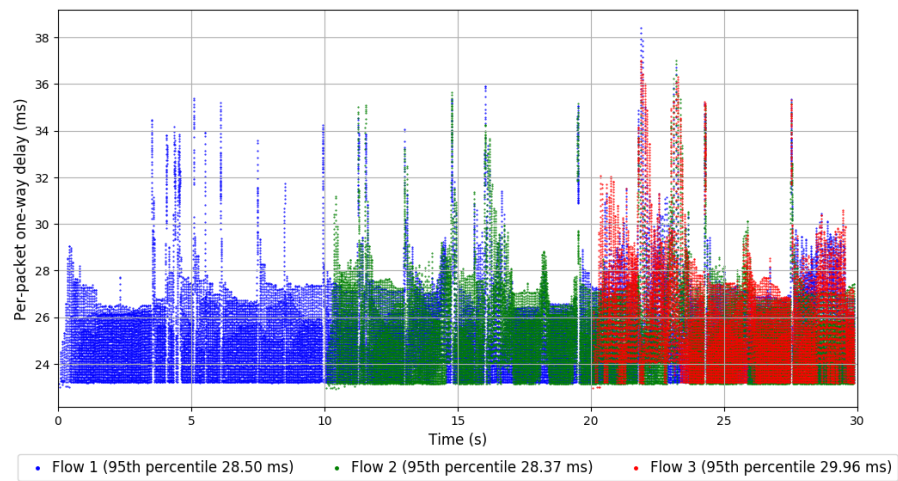
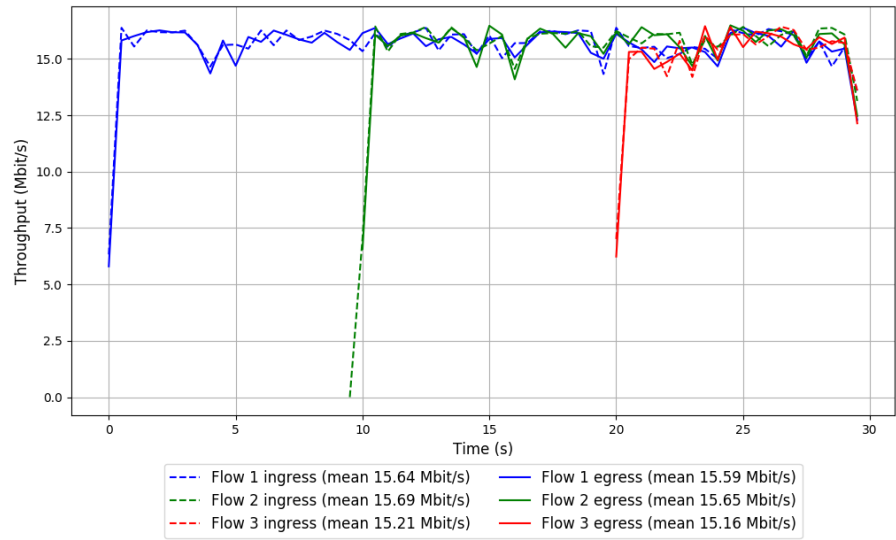
-- Flow 3:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 29.958 ms

Loss rate: 0.88%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 10:38:02

End at: 2018-01-02 10:38:32

Local clock offset: 0.578 ms

Remote clock offset: 2.001 ms

Below is generated by plot.py at 2018-01-02 14:27:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 28.609 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 28.430 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 28.918 ms

Loss rate: 0.52%

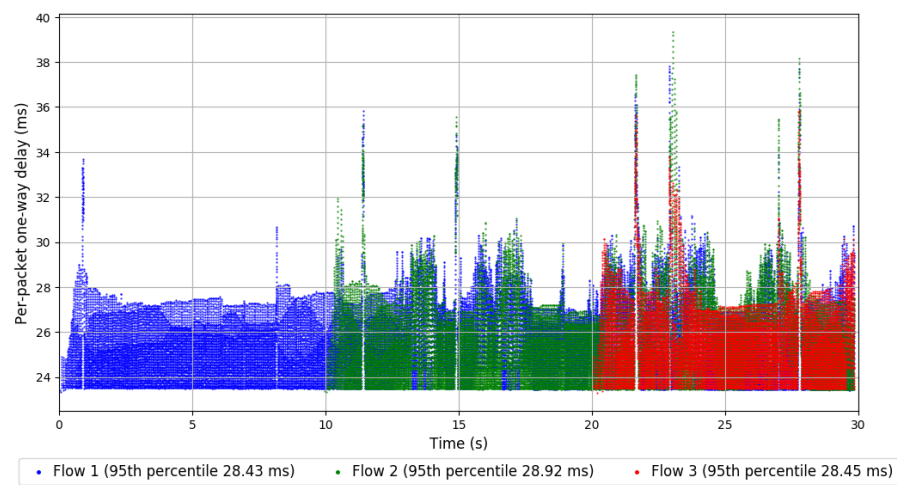
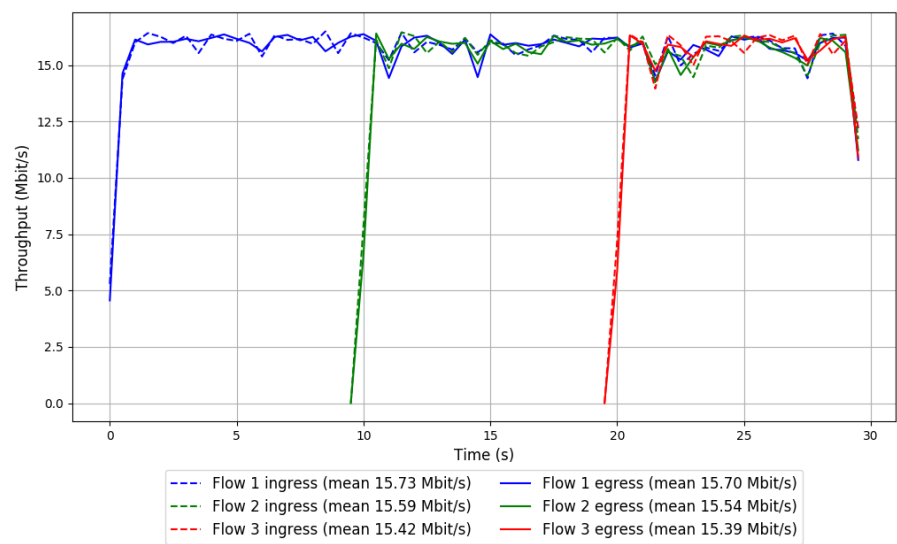
-- Flow 3:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 28.451 ms

Loss rate: 0.72%

Run 10: Report of Sprout — Data Link

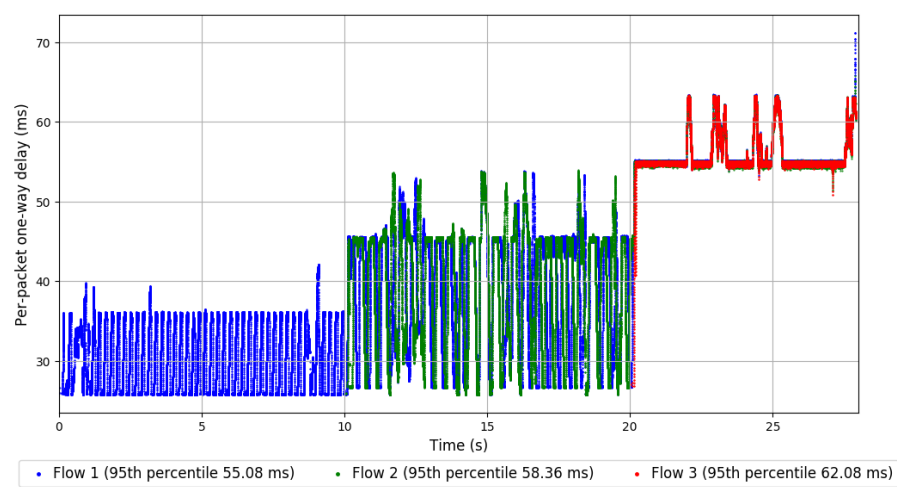
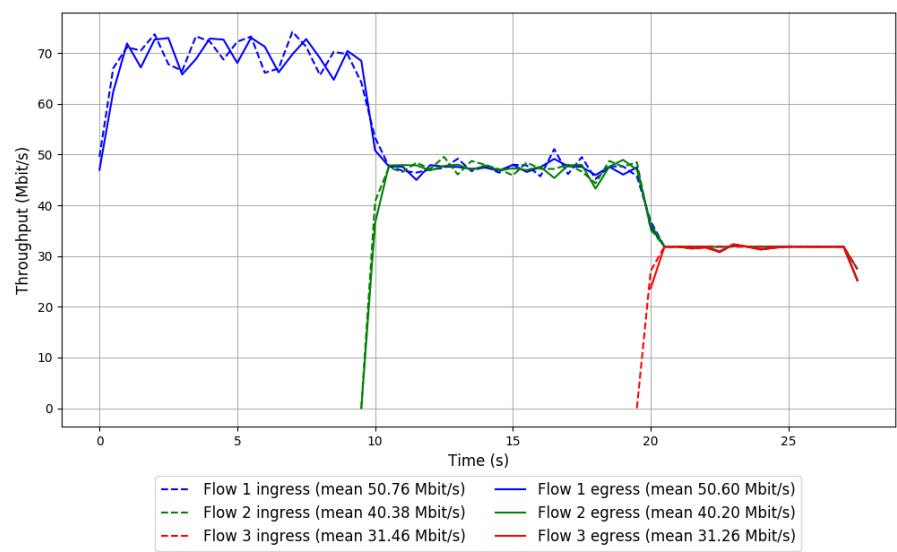


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 07:17:36
End at: 2018-01-02 07:18:06
Local clock offset: 0.172 ms
Remote clock offset: -3.383 ms

# Below is generated by plot.py at 2018-01-02 14:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.26 Mbit/s
95th percentile per-packet one-way delay: 57.860 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 55.080 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 40.20 Mbit/s
95th percentile per-packet one-way delay: 58.364 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 62.083 ms
Loss rate: 1.52%
```


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

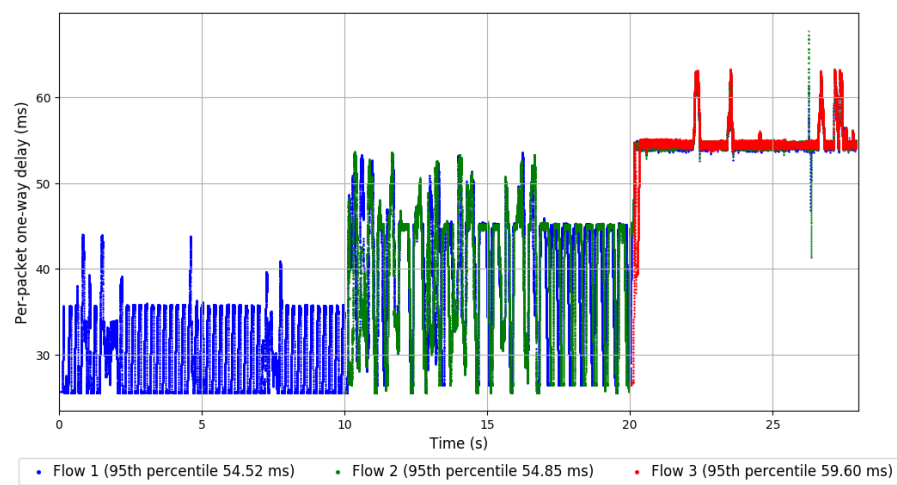
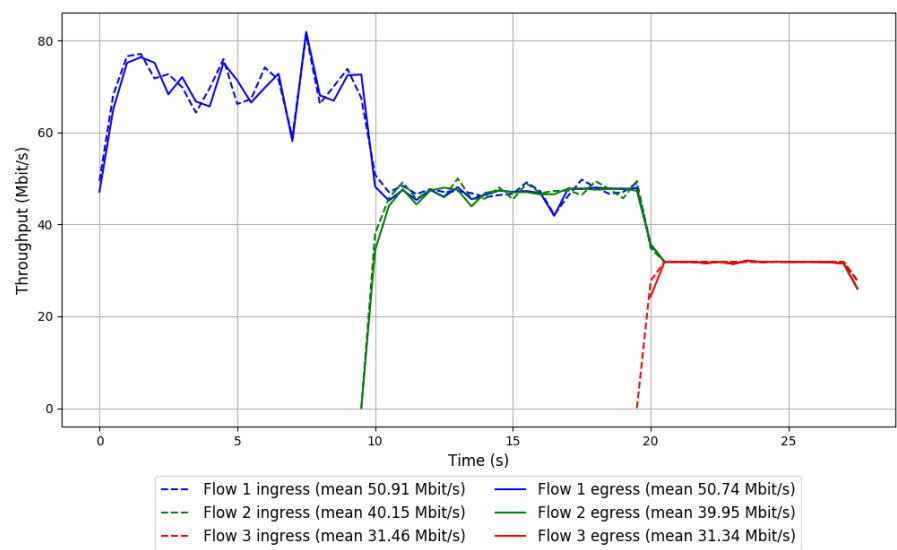


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 07:38:28
End at: 2018-01-02 07:38:58
Local clock offset: 0.097 ms
Remote clock offset: -3.281 ms

Below is generated by plot.py at 2018-01-02 14:29:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 54.858 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 50.74 Mbit/s
95th percentile per-packet one-way delay: 54.523 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 54.854 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 59.597 ms
Loss rate: 1.24%

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

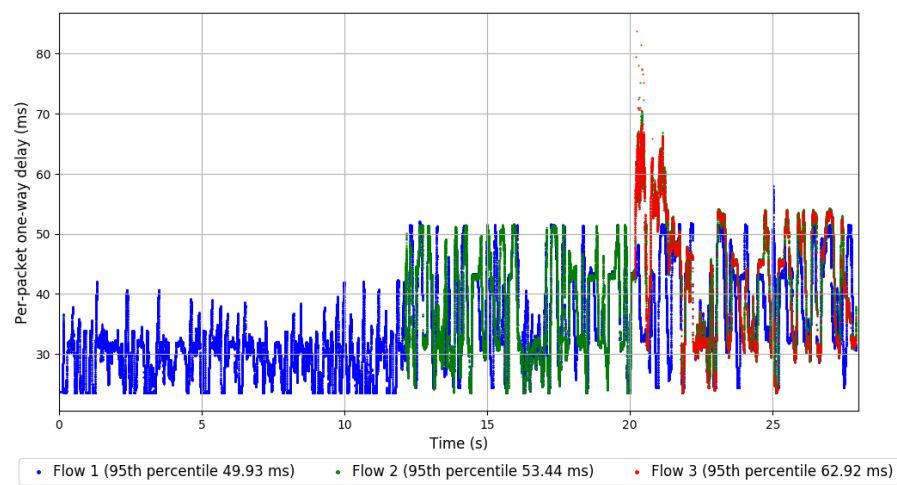
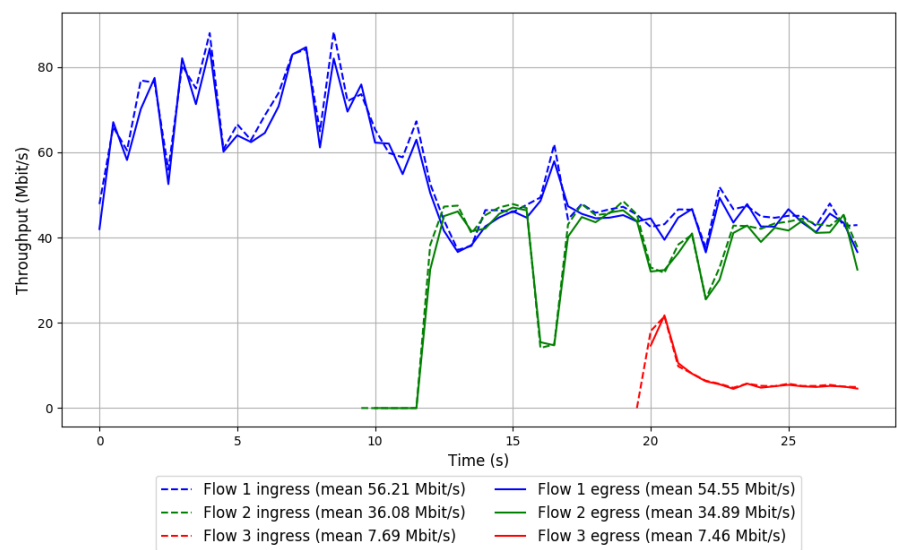


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 07:59:19
End at: 2018-01-02 07:59:49
Local clock offset: 0.015 ms
Remote clock offset: -1.039 ms

Below is generated by plot.py at 2018-01-02 14:29:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 49.926 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 53.435 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 62.919 ms
Loss rate: 3.82%

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

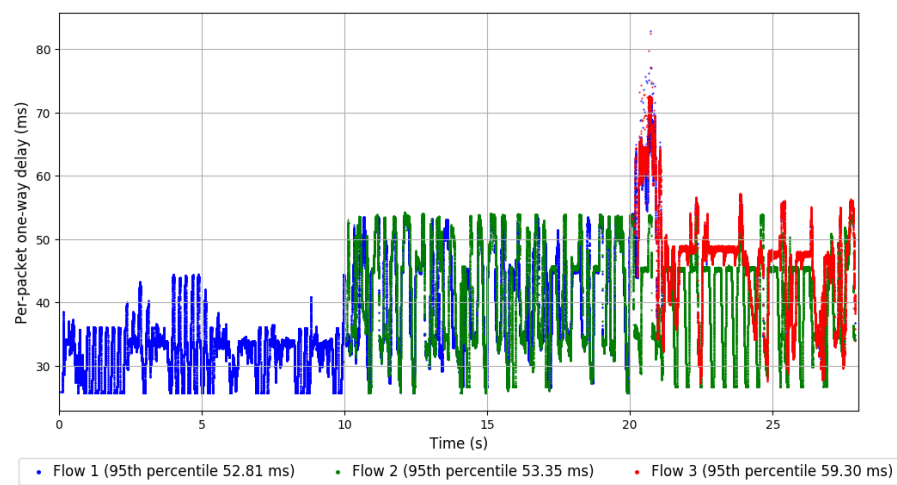
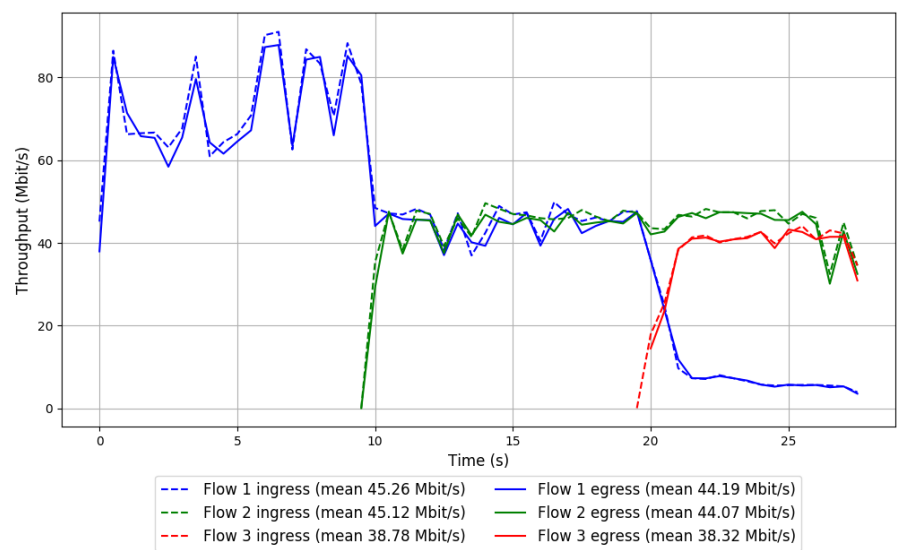


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 08:22:47
End at: 2018-01-02 08:23:17
Local clock offset: 0.178 ms
Remote clock offset: -2.088 ms

Below is generated by plot.py at 2018-01-02 14:29:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.34 Mbit/s
95th percentile per-packet one-way delay: 53.255 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 44.19 Mbit/s
95th percentile per-packet one-way delay: 52.812 ms
Loss rate: 2.55%
-- Flow 2:
Average throughput: 44.07 Mbit/s
95th percentile per-packet one-way delay: 53.346 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 38.32 Mbit/s
95th percentile per-packet one-way delay: 59.295 ms
Loss rate: 2.20%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 08:45:17

End at: 2018-01-02 08:45:47

Local clock offset: 0.13 ms

Remote clock offset: 1.48 ms

Below is generated by plot.py at 2018-01-02 14:29:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 50.912 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 50.181 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 1.60%

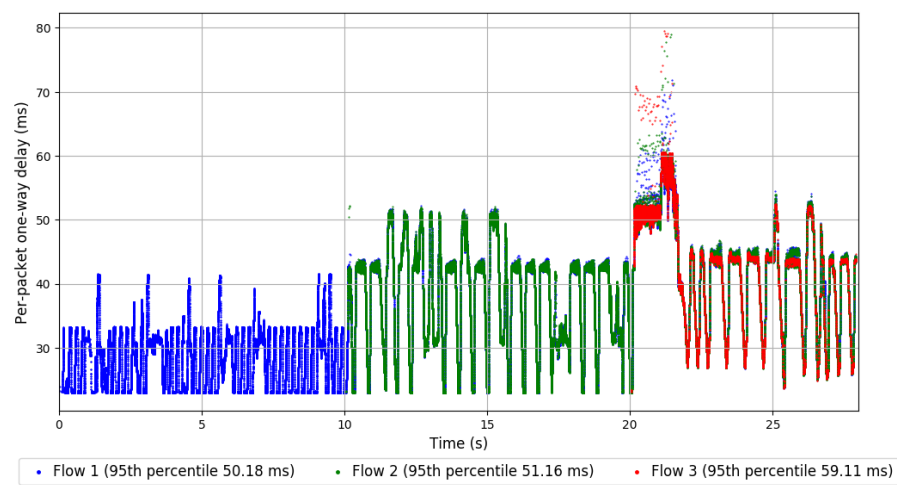
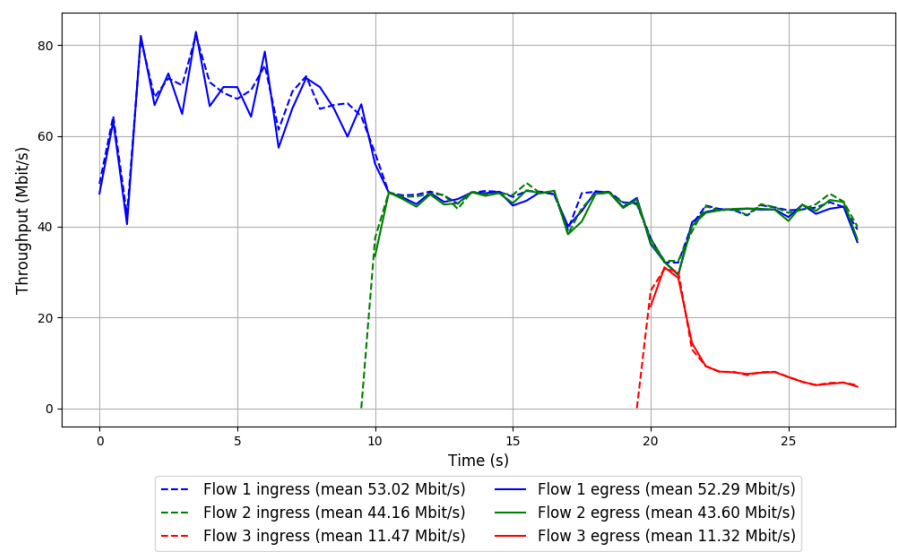
-- Flow 3:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 59.110 ms

Loss rate: 1.98%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 09:06:28

End at: 2018-01-02 09:06:58

Local clock offset: 0.263 ms

Remote clock offset: 1.809 ms

Below is generated by plot.py at 2018-01-02 14:29:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.67 Mbit/s

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

Loss rate: 0.59%

-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 52.666 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 40.40 Mbit/s

95th percentile per-packet one-way delay: 52.792 ms

Loss rate: 0.59%

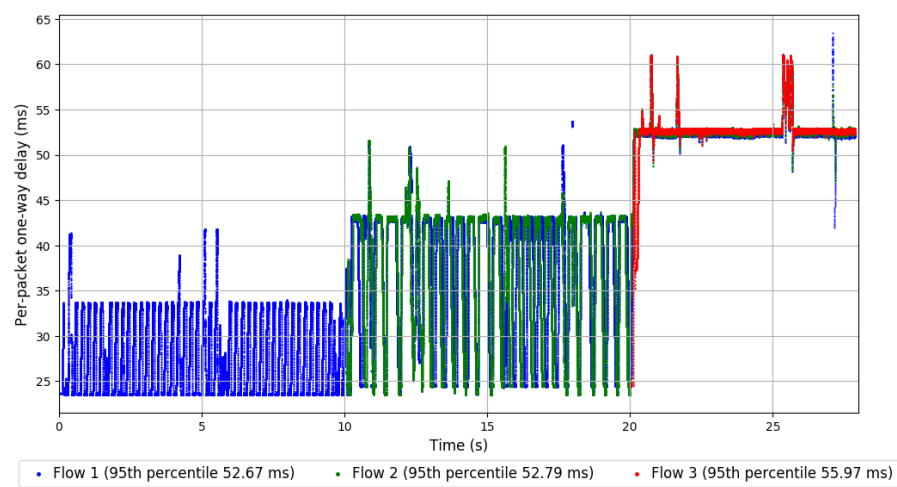
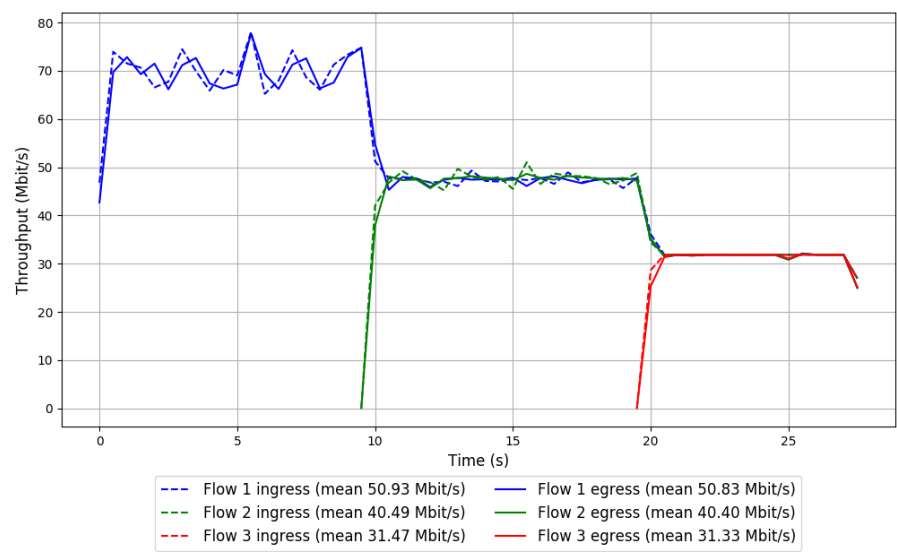
-- Flow 3:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 55.969 ms

Loss rate: 1.31%

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



Run 7: Statistics of TaoVA-100x

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

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

Local clock offset: 0.262 ms

Remote clock offset: 2.824 ms

Below is generated by plot.py at 2018-01-02 14:29:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.46 Mbit/s

95th percentile per-packet one-way delay: 52.433 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 52.332 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 40.24 Mbit/s

95th percentile per-packet one-way delay: 52.410 ms

Loss rate: 0.84%

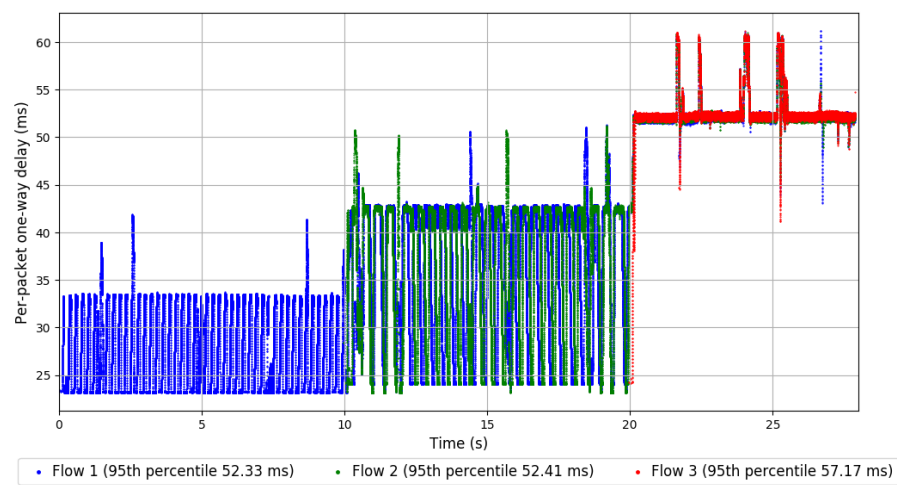
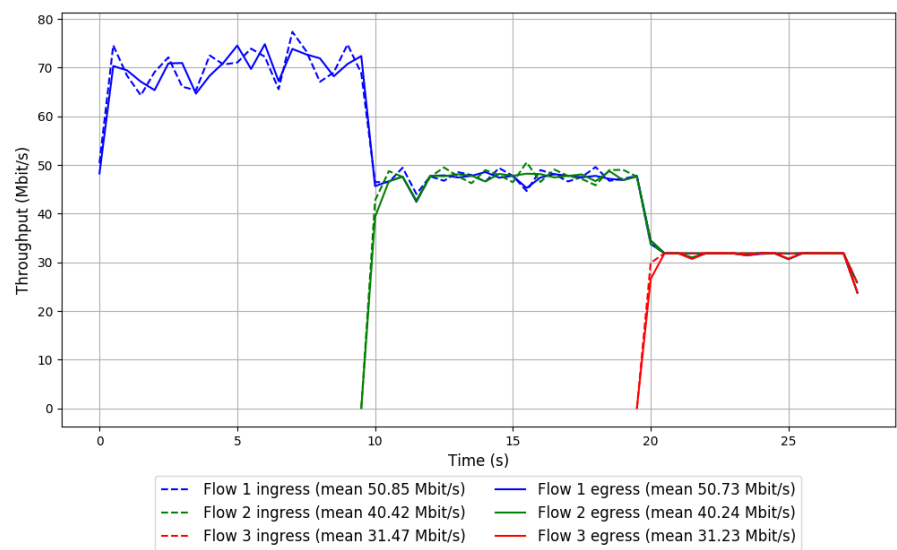
-- Flow 3:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 57.171 ms

Loss rate: 1.59%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 09:48:12

End at: 2018-01-02 09:48:42

Local clock offset: 0.302 ms

Remote clock offset: 2.929 ms

Below is generated by plot.py at 2018-01-02 14:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 46.702 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 44.80 Mbit/s

95th percentile per-packet one-way delay: 45.281 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 43.303 ms

Loss rate: 0.48%

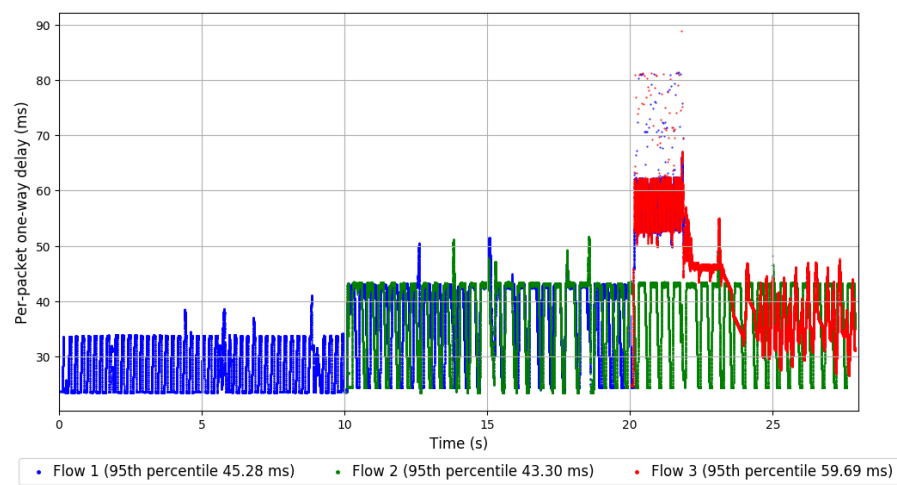
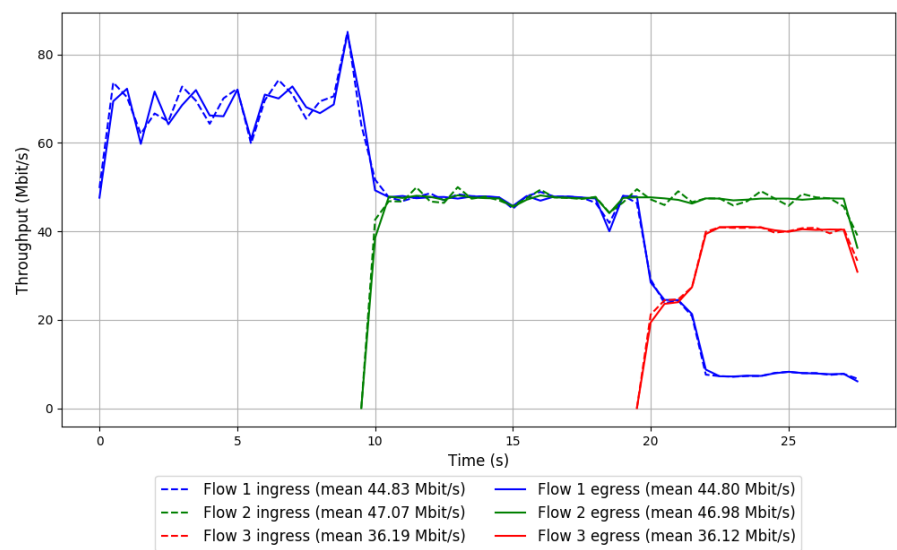
-- Flow 3:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 59.694 ms

Loss rate: 0.98%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 10:08:56

End at: 2018-01-02 10:09:26

Local clock offset: 0.416 ms

Remote clock offset: 2.741 ms

Below is generated by plot.py at 2018-01-02 14:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 61.847 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 48.12 Mbit/s

95th percentile per-packet one-way delay: 61.812 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 62.018 ms

Loss rate: 0.59%

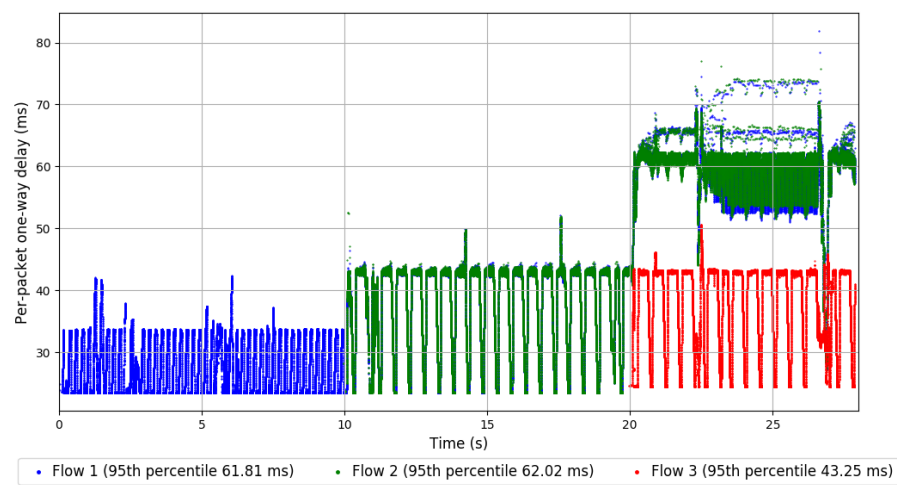
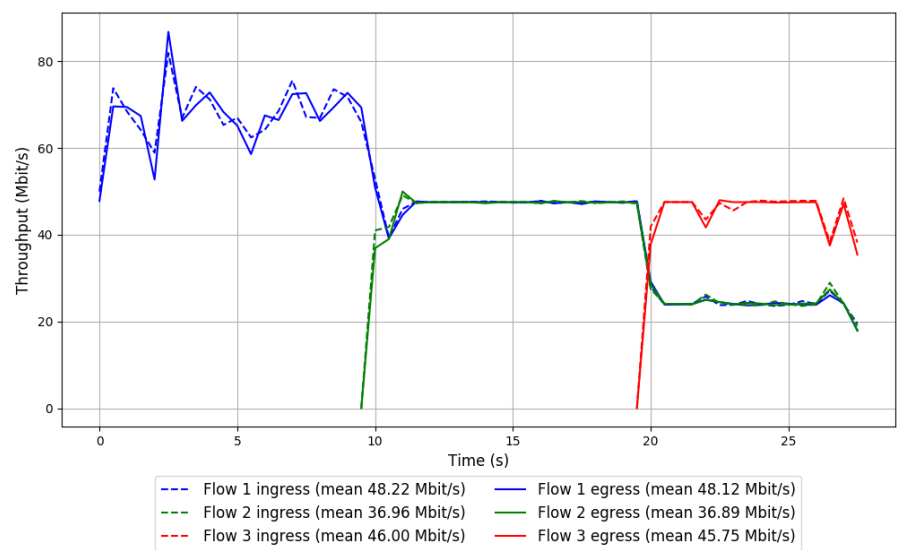
-- Flow 3:

Average throughput: 45.75 Mbit/s

95th percentile per-packet one-way delay: 43.254 ms

Loss rate: 1.33%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 10:29:39

End at: 2018-01-02 10:30:09

Local clock offset: 0.514 ms

Remote clock offset: 2.937 ms

Below is generated by plot.py at 2018-01-02 14:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 52.286 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 51.44 Mbit/s

95th percentile per-packet one-way delay: 52.136 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 52.326 ms

Loss rate: 0.72%

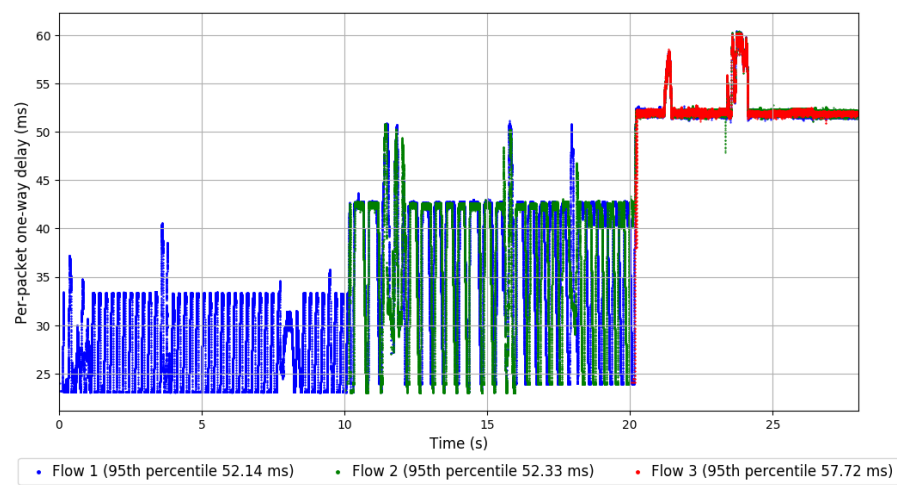
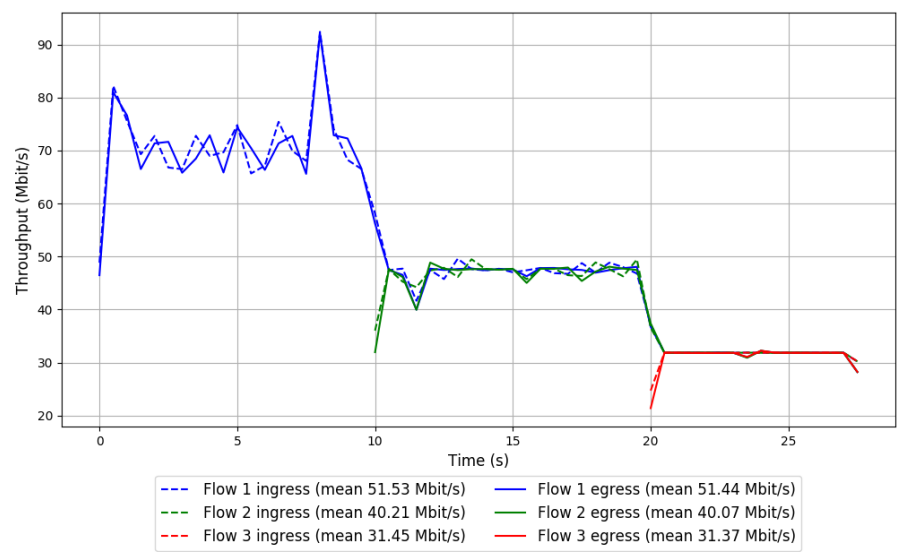
-- Flow 3:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 57.715 ms

Loss rate: 1.14%

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

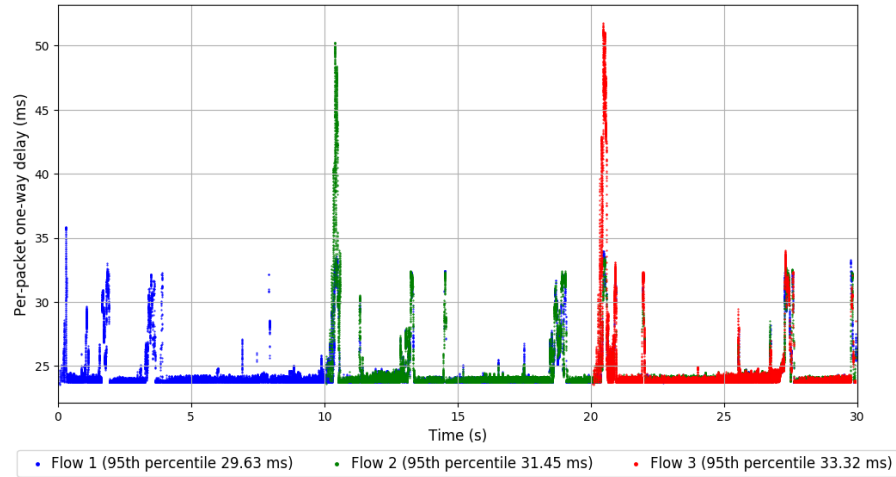
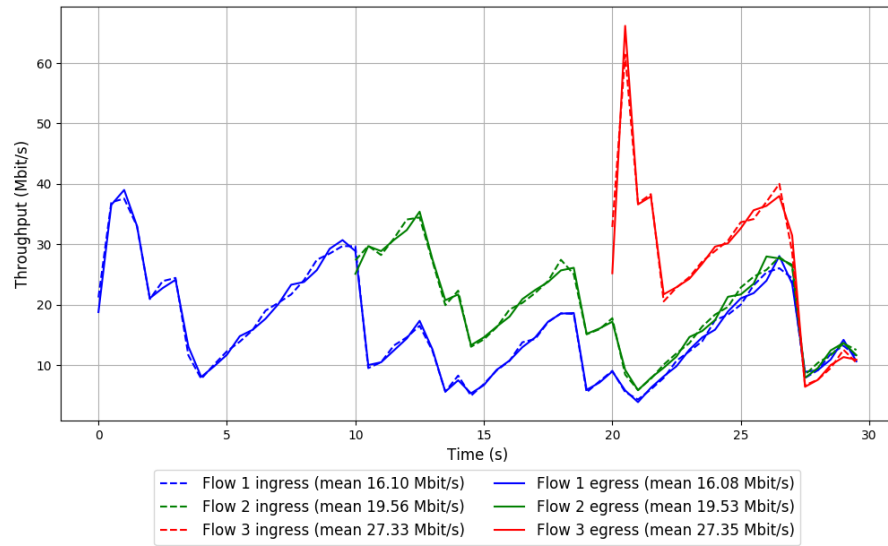


Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 07:30:13
End at: 2018-01-02 07:30:43
Local clock offset: 0.208 ms
Remote clock offset: -1.283 ms

Below is generated by plot.py at 2018-01-02 14:31:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 31.032 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 29.626 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 19.53 Mbit/s
95th percentile per-packet one-way delay: 31.448 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 27.35 Mbit/s
95th percentile per-packet one-way delay: 33.322 ms
Loss rate: 0.46%

Run 1: Report of TCP Vegas — Data Link

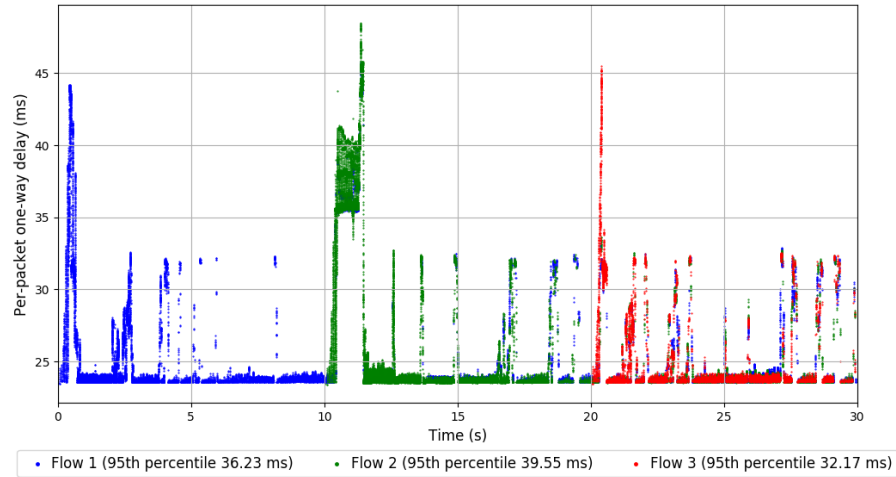
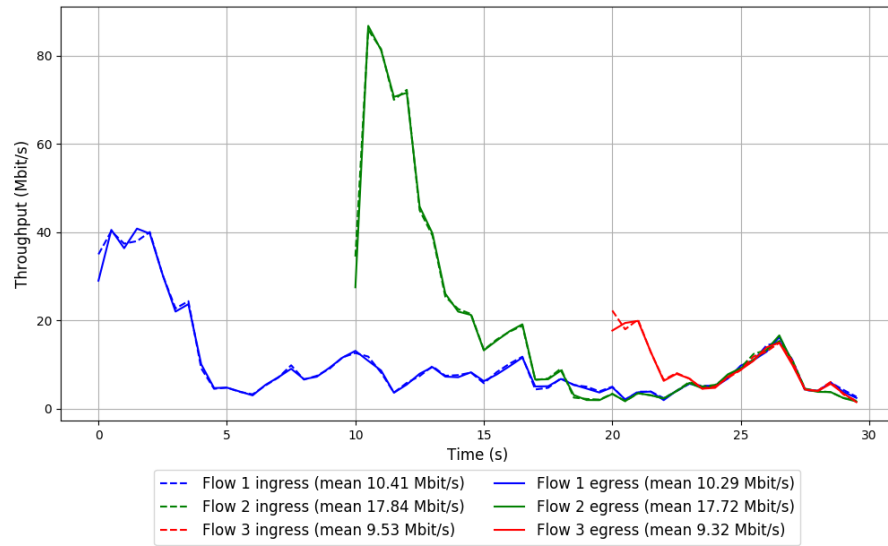


Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 07:50:55
End at: 2018-01-02 07:51:25
Local clock offset: 0.056 ms
Remote clock offset: -1.205 ms

Below is generated by plot.py at 2018-01-02 14:31:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 38.238 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 10.29 Mbit/s
95th percentile per-packet one-way delay: 36.225 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 17.72 Mbit/s
95th percentile per-packet one-way delay: 39.555 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 32.170 ms
Loss rate: 2.64%

Run 2: Report of TCP Vegas — Data Link

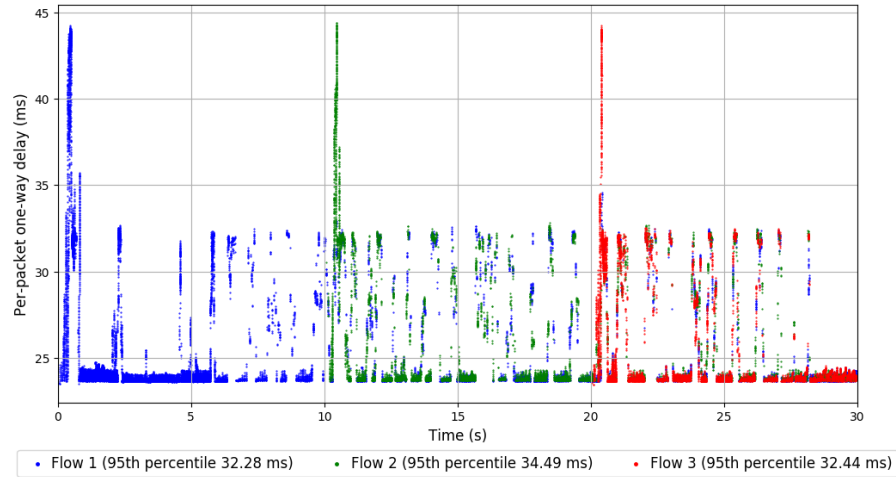
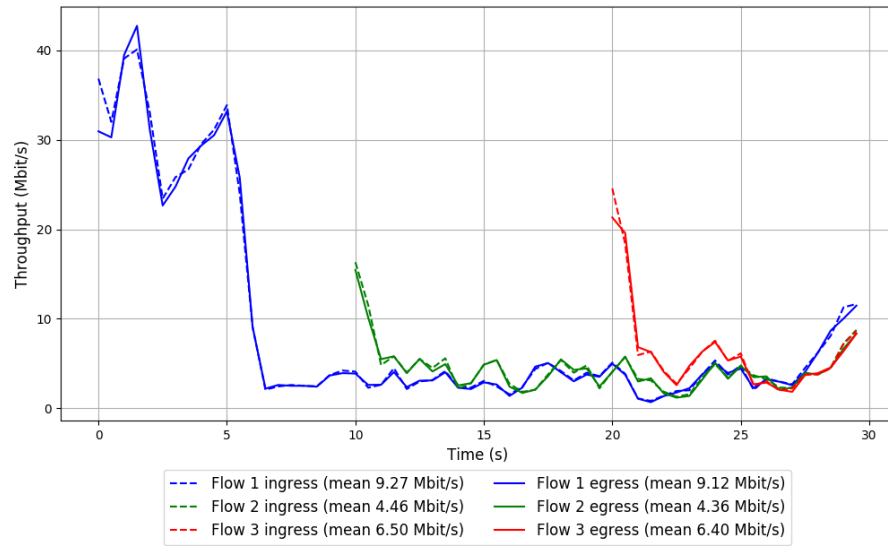


Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 08:14:22
End at: 2018-01-02 08:14:52
Local clock offset: 0.167 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2018-01-02 14:31:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.13 Mbit/s
95th percentile per-packet one-way delay: 32.470 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 32.282 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 34.493 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 32.436 ms
Loss rate: 2.17%

Run 3: Report of TCP Vegas — Data Link

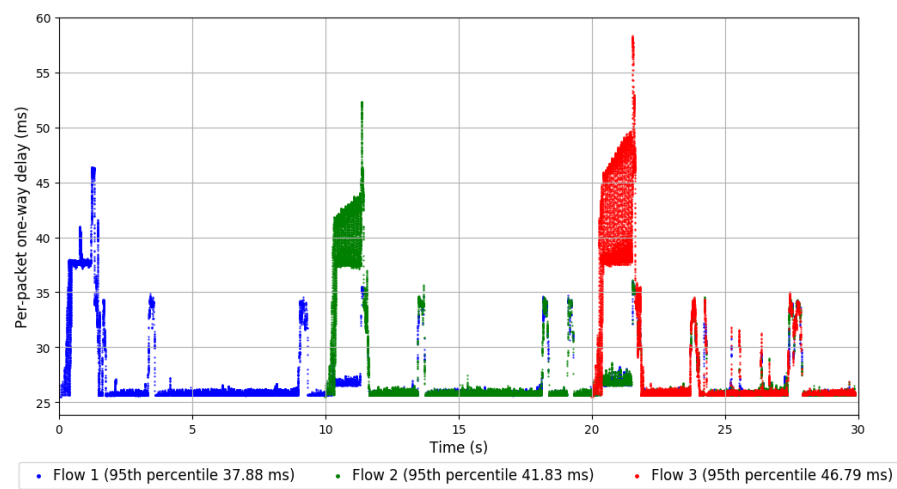
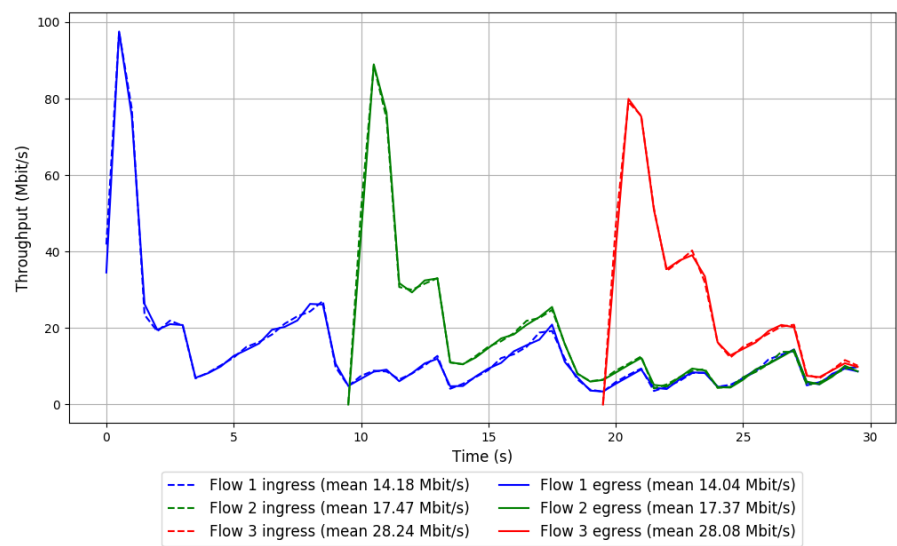


Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 08:37:00
End at: 2018-01-02 08:37:30
Local clock offset: 0.036 ms
Remote clock offset: -1.383 ms

Below is generated by plot.py at 2018-01-02 14:31:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: 42.470 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 14.04 Mbit/s
95th percentile per-packet one-way delay: 37.877 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 17.37 Mbit/s
95th percentile per-packet one-way delay: 41.827 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 46.787 ms
Loss rate: 1.09%

Run 4: Report of TCP Vegas — Data Link

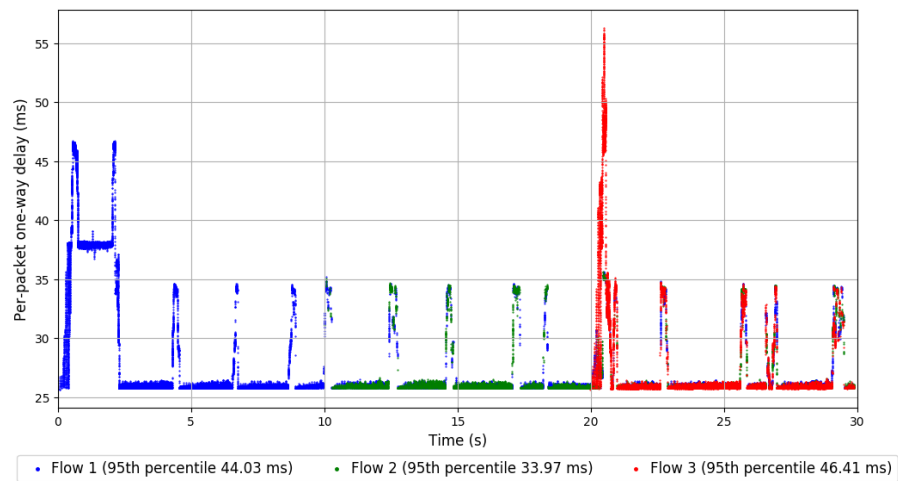
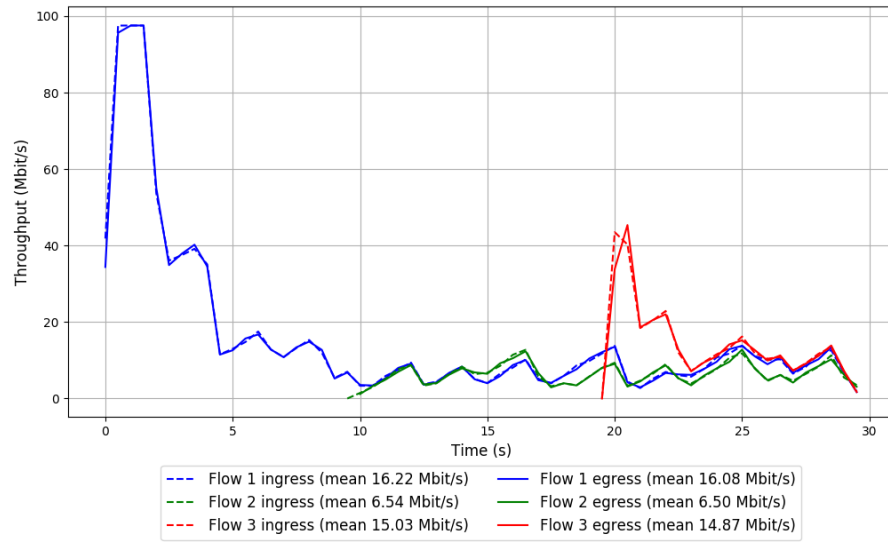


Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 08:58:28
End at: 2018-01-02 08:58:58
Local clock offset: 0.333 ms
Remote clock offset: -0.608 ms

Below is generated by plot.py at 2018-01-02 14:31:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.32 Mbit/s
95th percentile per-packet one-way delay: 41.407 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 44.028 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 33.971 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 46.407 ms
Loss rate: 1.56%

Run 5: Report of TCP Vegas — Data Link

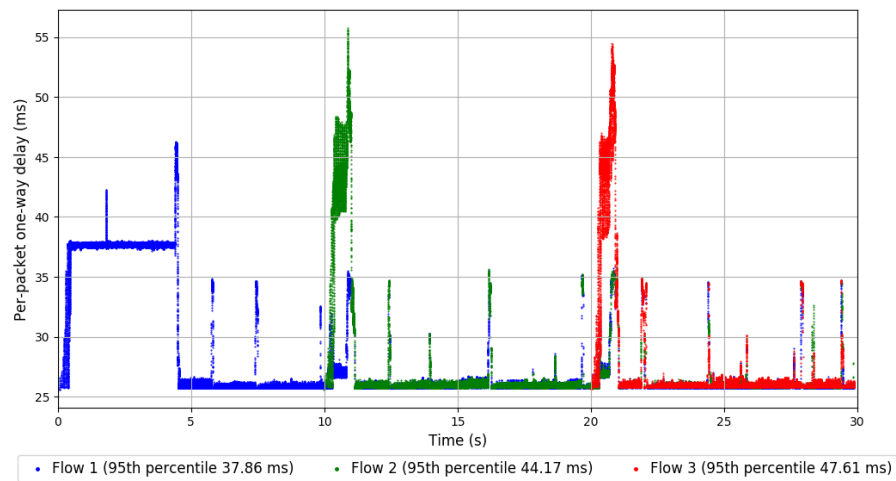
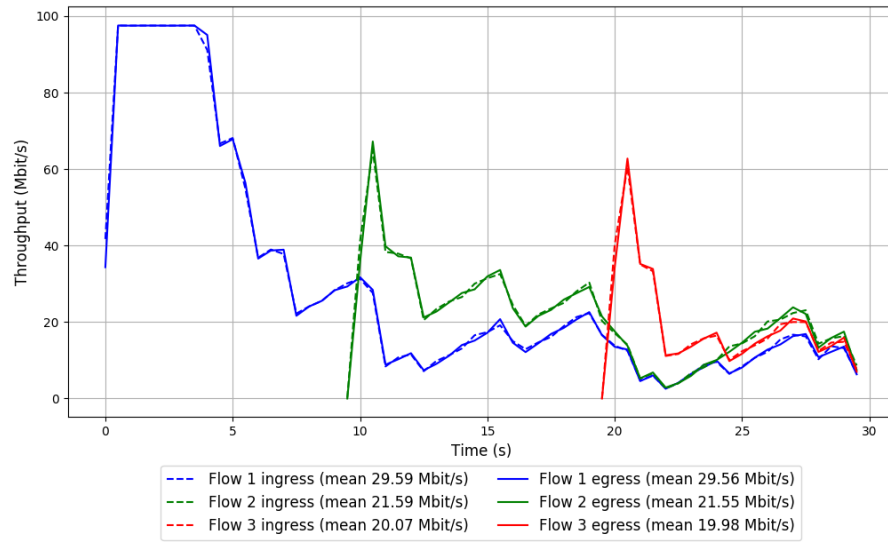


Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 09:19:00
End at: 2018-01-02 09:19:30
Local clock offset: 0.362 ms
Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-01-02 14:31:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.55 Mbit/s
95th percentile per-packet one-way delay: 41.961 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 37.857 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 21.55 Mbit/s
95th percentile per-packet one-way delay: 44.169 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 47.612 ms
Loss rate: 0.98%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 09:40:10

End at: 2018-01-02 09:40:40

Local clock offset: 0.388 ms

Remote clock offset: 0.849 ms

Below is generated by plot.py at 2018-01-02 14:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 45.832 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 32.624 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 40.743 ms

Loss rate: 0.42%

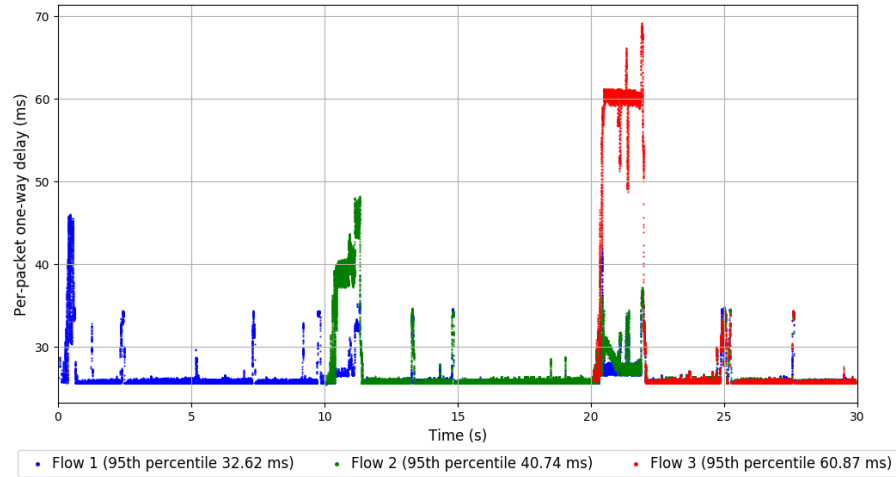
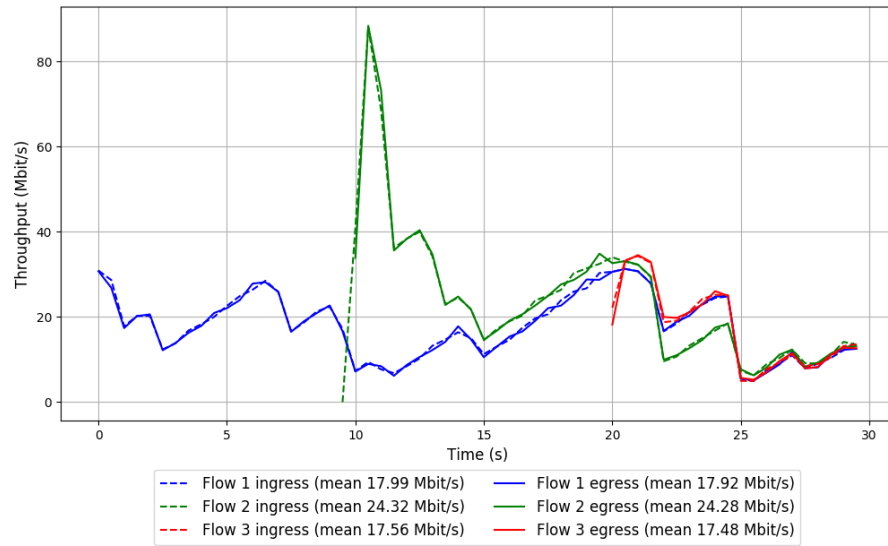
-- Flow 3:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 60.865 ms

Loss rate: 0.98%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 10:00:43

End at: 2018-01-02 10:01:13

Local clock offset: 0.333 ms

Remote clock offset: 3.264 ms

Below is generated by plot.py at 2018-01-02 14:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 32.522 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 32.28 Mbit/s

95th percentile per-packet one-way delay: 35.129 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 30.44 Mbit/s

95th percentile per-packet one-way delay: 30.457 ms

Loss rate: 0.42%

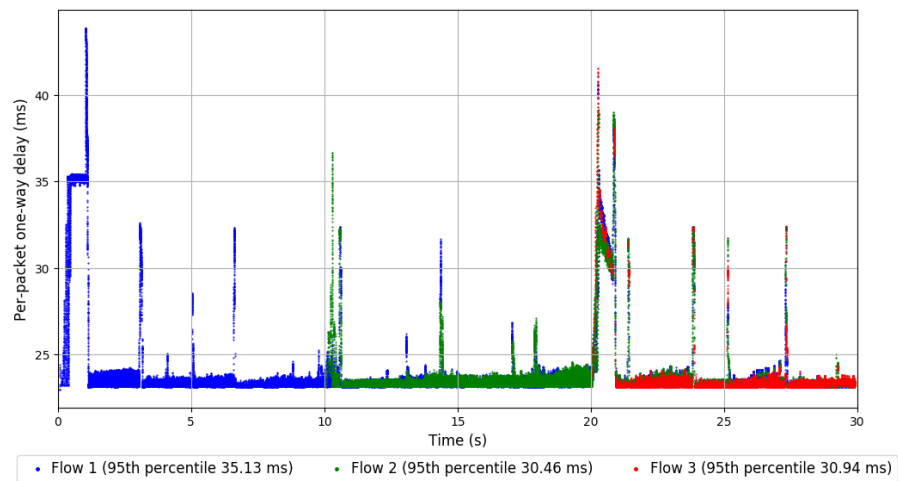
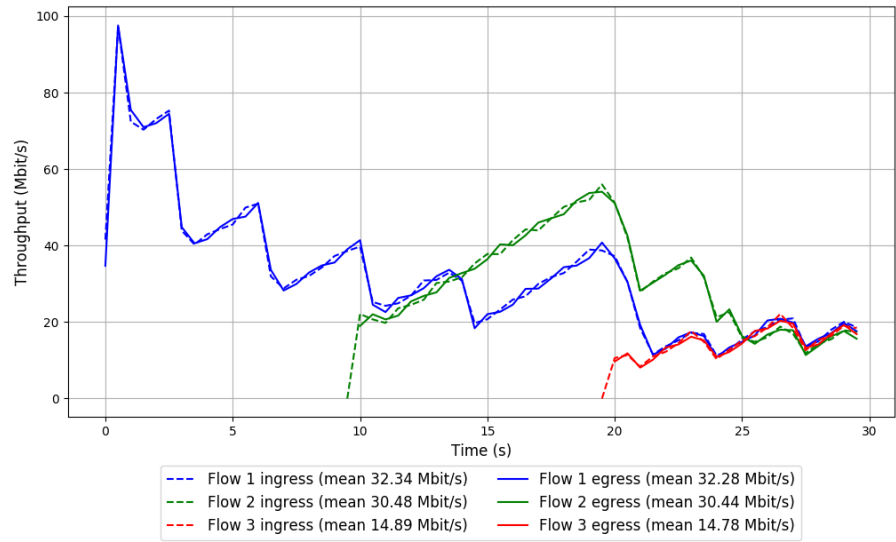
-- Flow 3:

Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: 30.939 ms

Loss rate: 1.22%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 10:21:33

End at: 2018-01-02 10:22:03

Local clock offset: 0.562 ms

Remote clock offset: 2.658 ms

Below is generated by plot.py at 2018-01-02 14:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 41.979 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 25.80 Mbit/s

95th percentile per-packet one-way delay: 35.850 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 43.744 ms

Loss rate: 0.54%

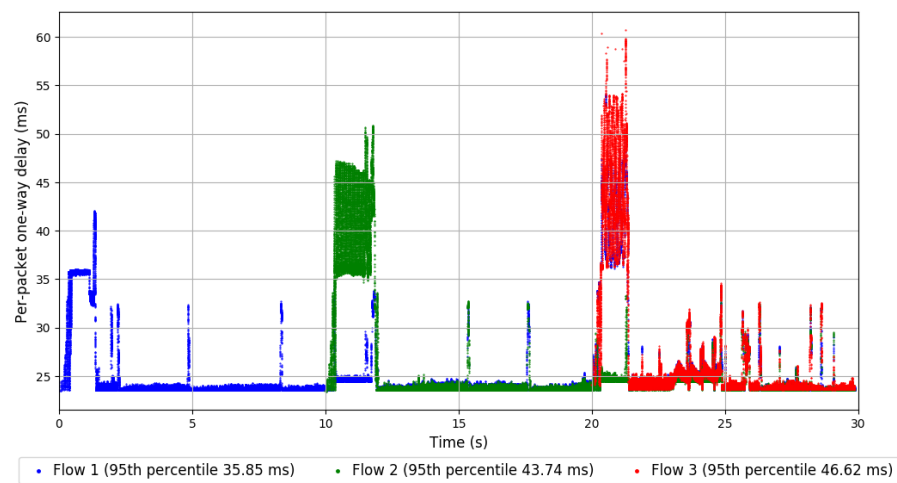
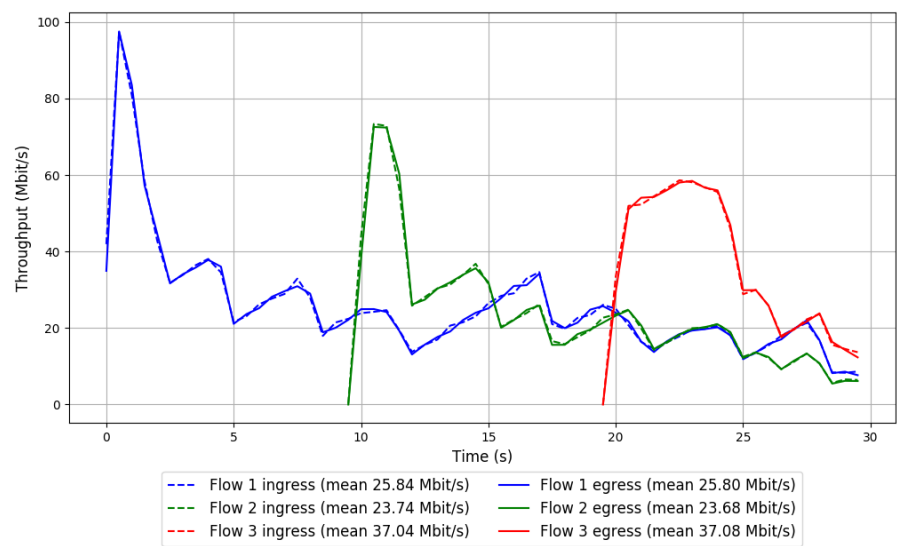
-- Flow 3:

Average throughput: 37.08 Mbit/s

95th percentile per-packet one-way delay: 46.621 ms

Loss rate: 0.44%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 10:42:07

End at: 2018-01-02 10:42:37

Local clock offset: 0.623 ms

Remote clock offset: 1.483 ms

Below is generated by plot.py at 2018-01-02 14:31:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 45.110 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 27.12 Mbit/s

95th percentile per-packet one-way delay: 43.514 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 45.388 ms

Loss rate: 0.41%

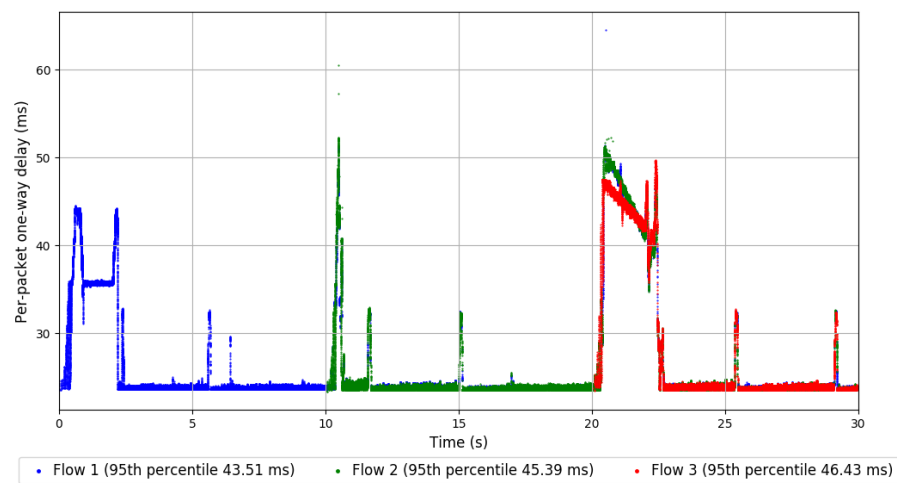
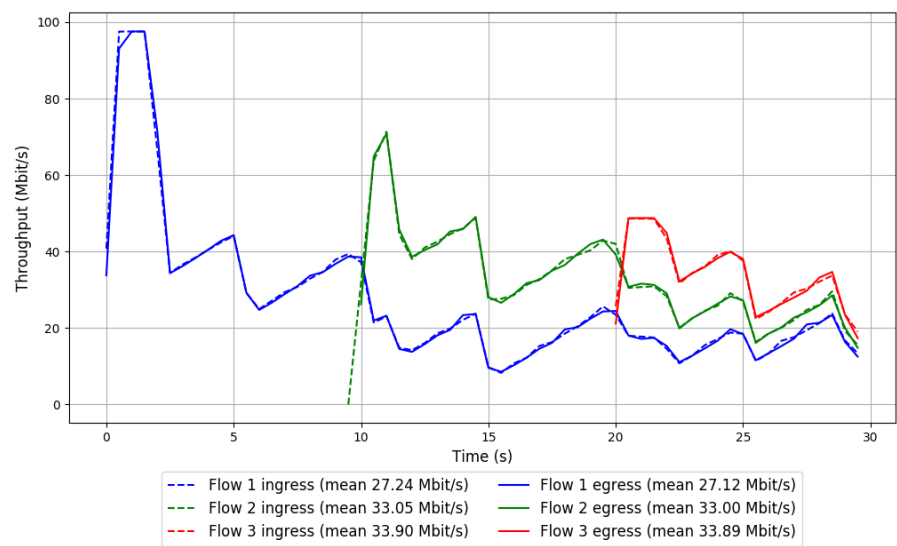
-- Flow 3:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 46.428 ms

Loss rate: 0.59%

Run 10: Report of TCP Vegas — Data Link

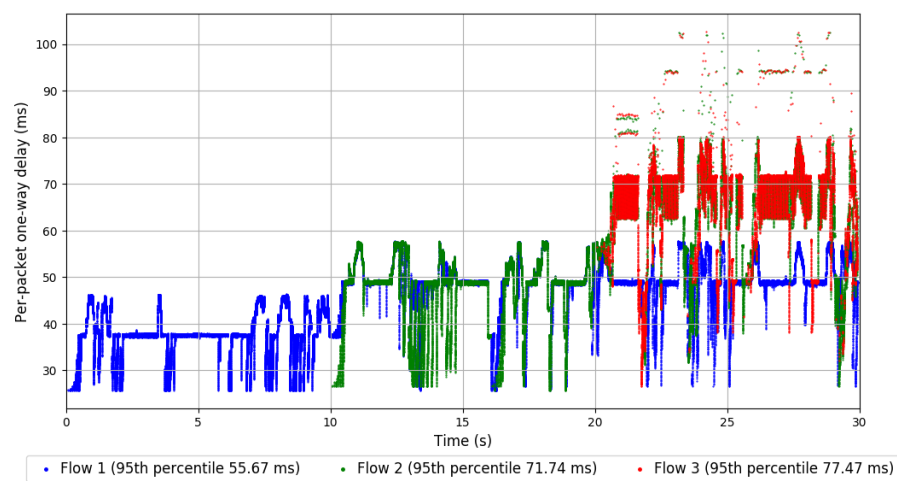
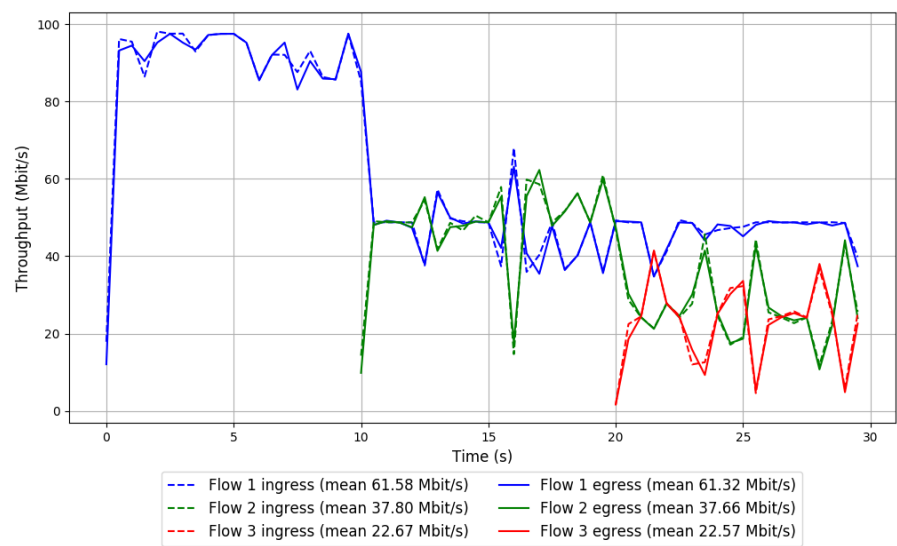


Run 1: Statistics of Verus

Start at: 2018-01-02 07:28:47
End at: 2018-01-02 07:29:17
Local clock offset: 0.118 ms
Remote clock offset: -3.349 ms

Below is generated by plot.py at 2018-01-02 14:31:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 71.294 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 61.32 Mbit/s
95th percentile per-packet one-way delay: 55.668 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 71.736 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 77.467 ms
Loss rate: 1.51%

Run 1: Report of Verus — Data Link

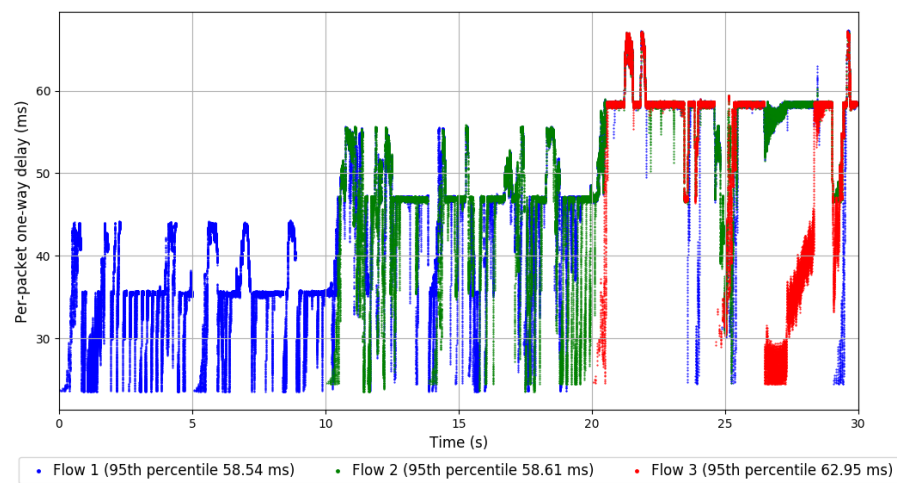
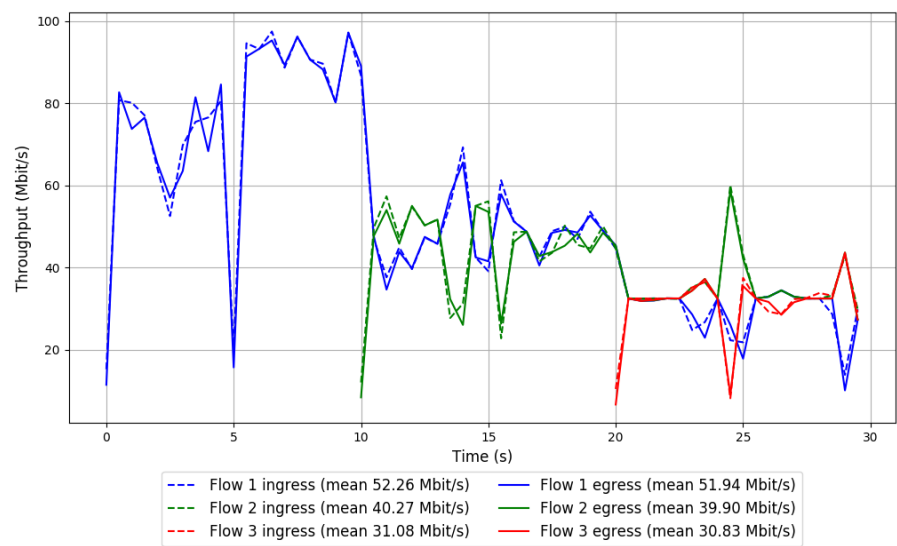


Run 2: Statistics of Verus

Start at: 2018-01-02 07:49:29
End at: 2018-01-02 07:49:59
Local clock offset: 0.148 ms
Remote clock offset: -1.184 ms

Below is generated by plot.py at 2018-01-02 14:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 58.597 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 51.94 Mbit/s
95th percentile per-packet one-way delay: 58.542 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 58.606 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 62.945 ms
Loss rate: 1.24%

Run 2: Report of Verus — Data Link

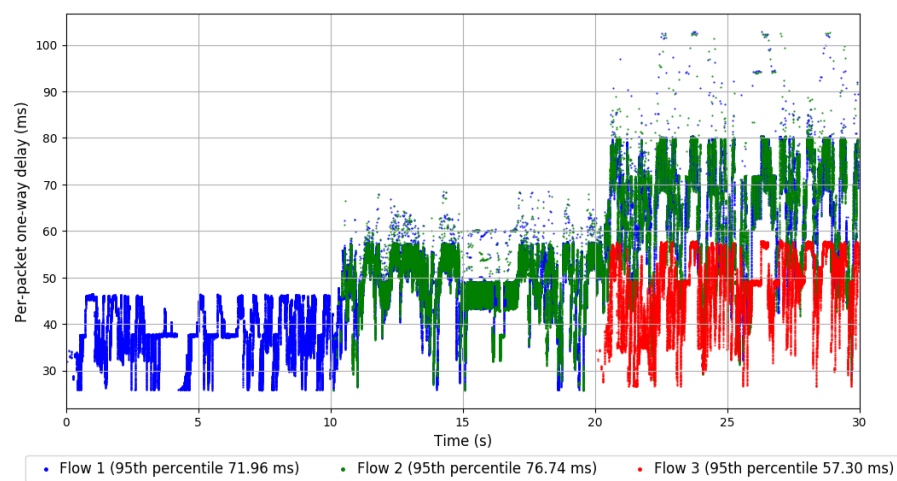
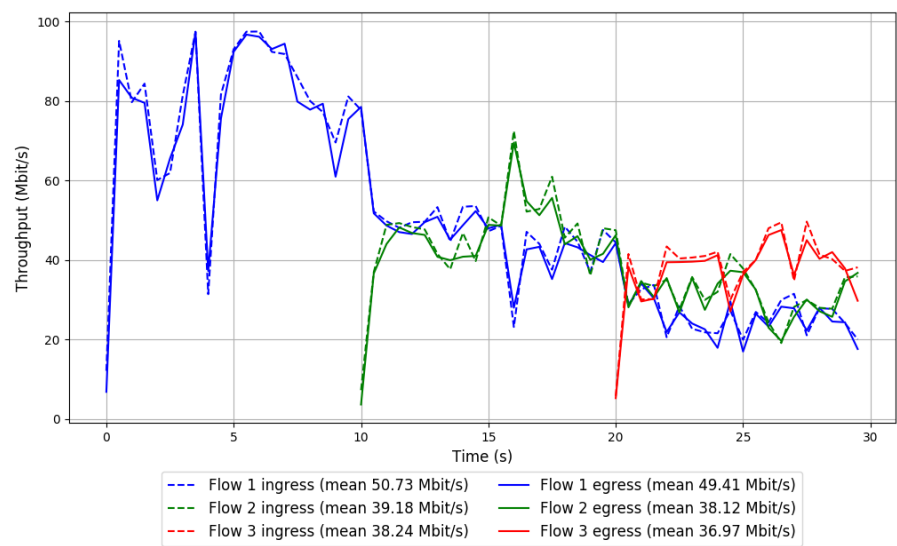


Run 3: Statistics of Verus

Start at: 2018-01-02 08:12:35
End at: 2018-01-02 08:13:05
Local clock offset: 0.181 ms
Remote clock offset: -2.634 ms

Below is generated by plot.py at 2018-01-02 14:31:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 73.138 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 49.41 Mbit/s
95th percentile per-packet one-way delay: 71.960 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 76.742 ms
Loss rate: 3.11%
-- Flow 3:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 57.298 ms
Loss rate: 3.91%

Run 3: Report of Verus — Data Link

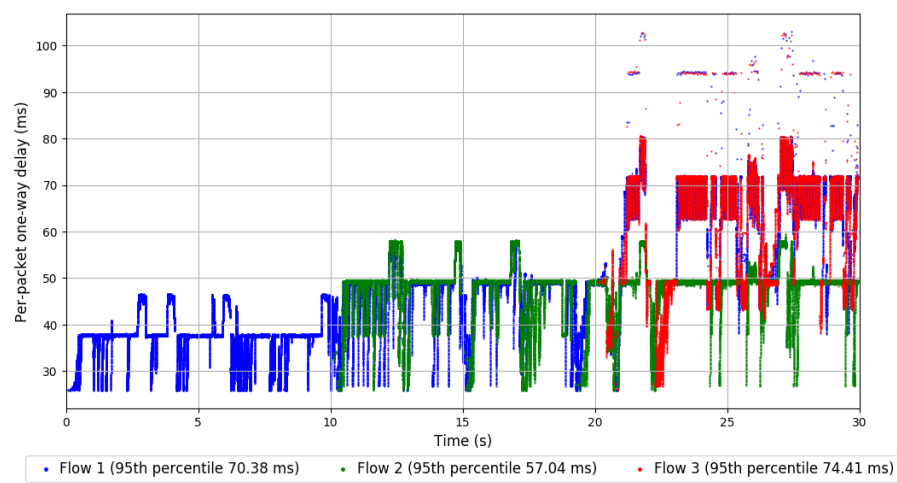
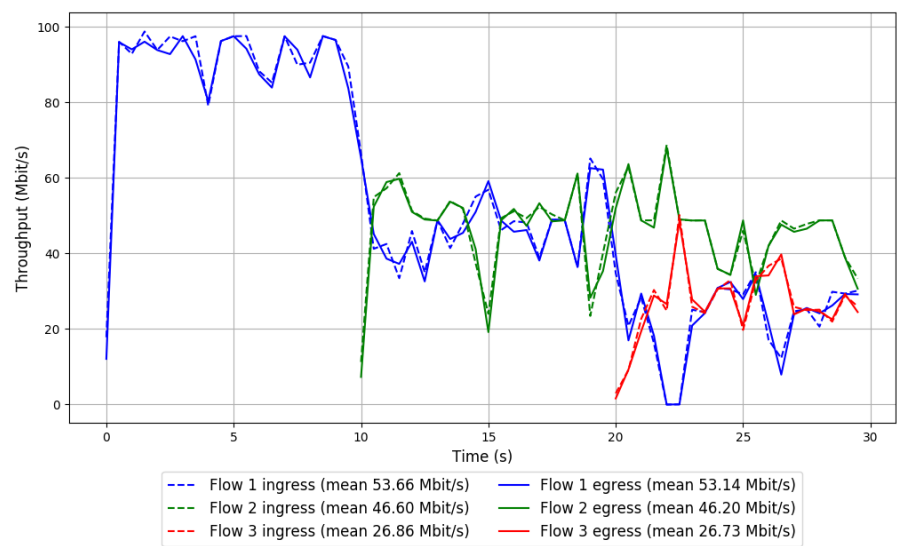


Run 4: Statistics of Verus

Start at: 2018-01-02 08:35:30
End at: 2018-01-02 08:36:00
Local clock offset: 0.104 ms
Remote clock offset: -1.544 ms

Below is generated by plot.py at 2018-01-02 14:31:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 71.252 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 70.378 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 46.20 Mbit/s
95th percentile per-packet one-way delay: 57.044 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 26.73 Mbit/s
95th percentile per-packet one-way delay: 74.408 ms
Loss rate: 1.39%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 08:57:01

End at: 2018-01-02 08:57:31

Local clock offset: 0.21 ms

Remote clock offset: 1.405 ms

Below is generated by plot.py at 2018-01-02 14:31:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.20 Mbit/s

95th percentile per-packet one-way delay: 58.565 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 58.310 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 58.999 ms

Loss rate: 1.06%

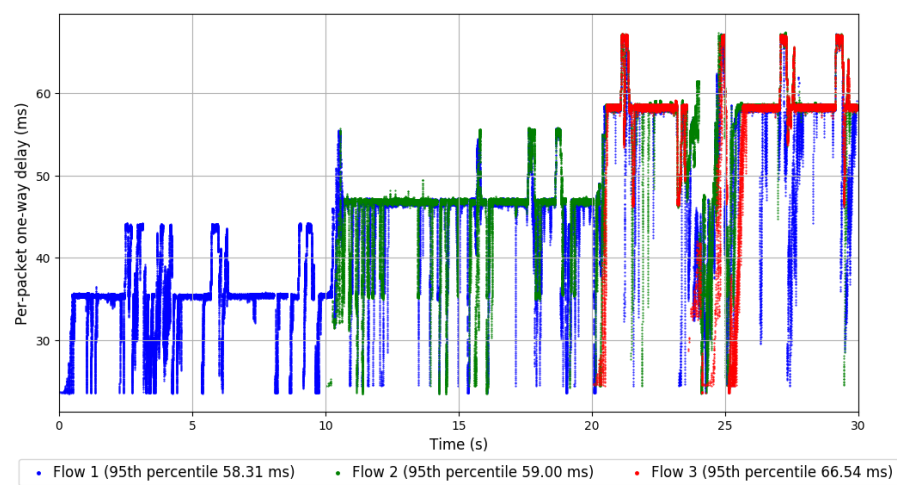
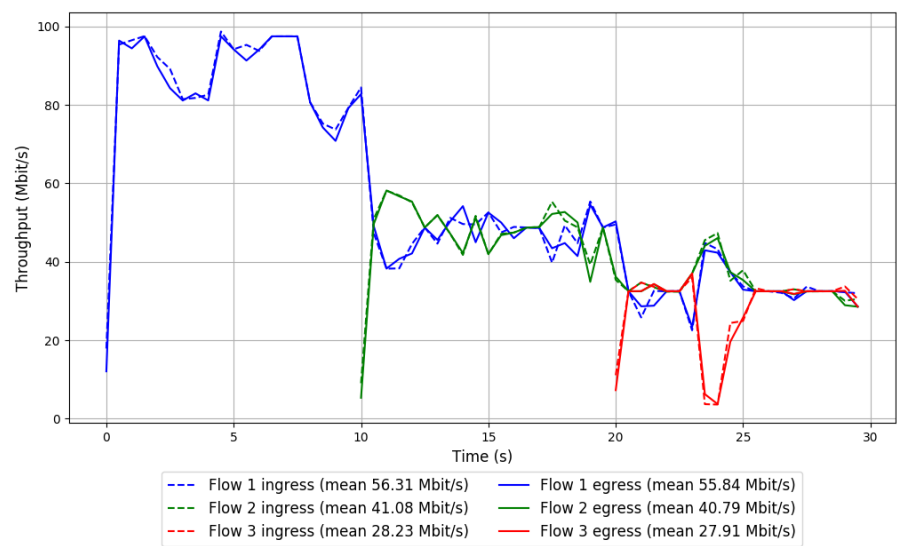
-- Flow 3:

Average throughput: 27.91 Mbit/s

95th percentile per-packet one-way delay: 66.543 ms

Loss rate: 1.85%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 09:17:37

End at: 2018-01-02 09:18:07

Local clock offset: 0.259 ms

Remote clock offset: 2.558 ms

Below is generated by plot.py at 2018-01-02 14:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 66.727 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 62.50 Mbit/s

95th percentile per-packet one-way delay: 46.782 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 68.887 ms

Loss rate: 0.13%

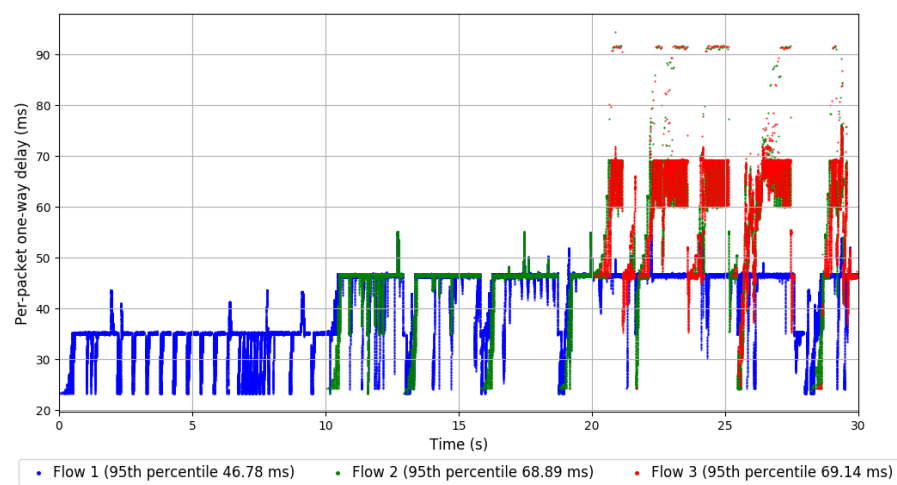
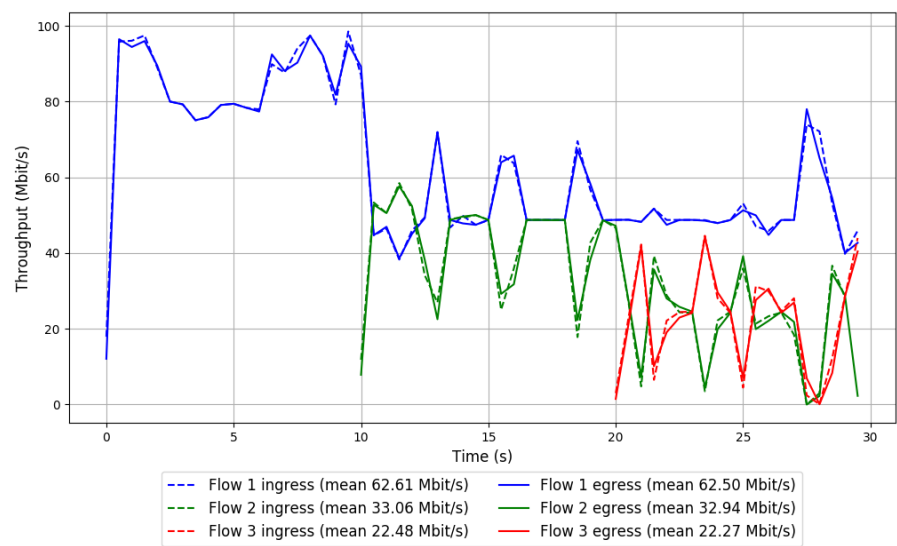
-- Flow 3:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 69.136 ms

Loss rate: 1.84%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 09:38:45

End at: 2018-01-02 09:39:15

Local clock offset: 0.284 ms

Remote clock offset: 0.687 ms

Below is generated by plot.py at 2018-01-02 14:32:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 71.466 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 59.09 Mbit/s

95th percentile per-packet one-way delay: 49.156 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 39.36 Mbit/s

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

Loss rate: 0.45%

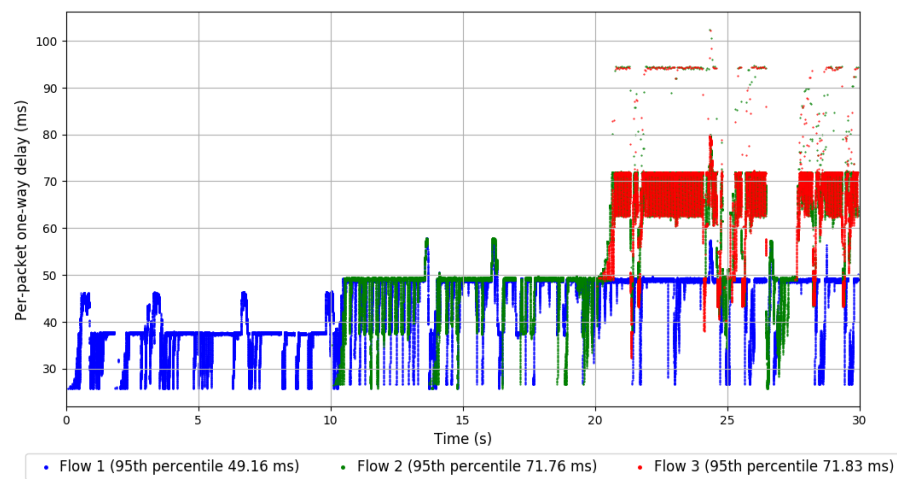
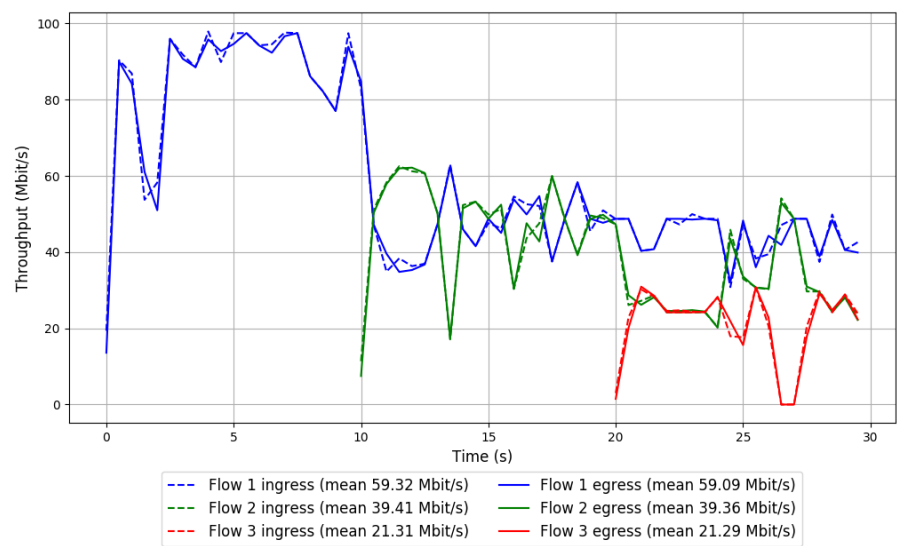
-- Flow 3:

Average throughput: 21.29 Mbit/s

95th percentile per-packet one-way delay: 71.834 ms

Loss rate: 1.10%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 09:59:15

End at: 2018-01-02 09:59:45

Local clock offset: 0.318 ms

Remote clock offset: 2.885 ms

Below is generated by plot.py at 2018-01-02 14:32:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.86 Mbit/s

95th percentile per-packet one-way delay: 58.443 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 59.47 Mbit/s

95th percentile per-packet one-way delay: 58.419 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 58.359 ms

Loss rate: 0.87%

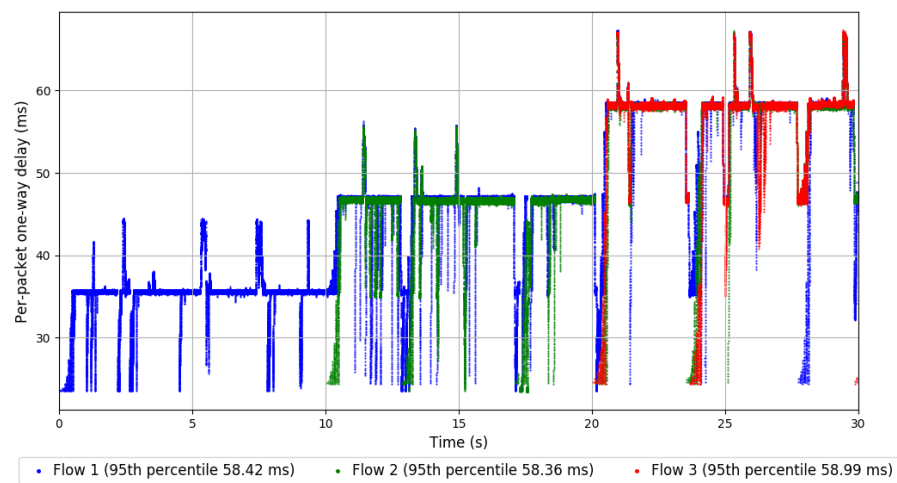
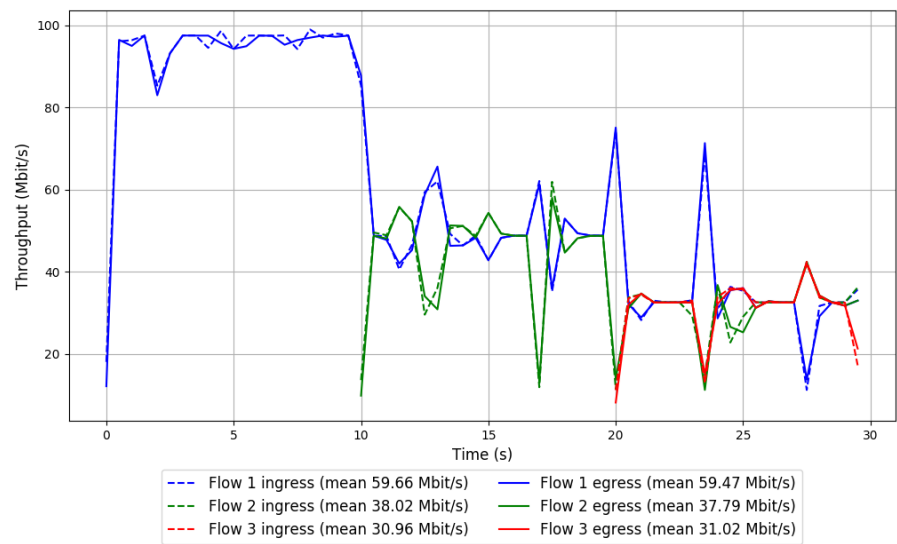
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 58.988 ms

Loss rate: 0.37%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 10:20:09

End at: 2018-01-02 10:20:39

Local clock offset: 0.549 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2018-01-02 14:32:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 69.856 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 61.39 Mbit/s

95th percentile per-packet one-way delay: 49.249 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 71.444 ms

Loss rate: 1.05%

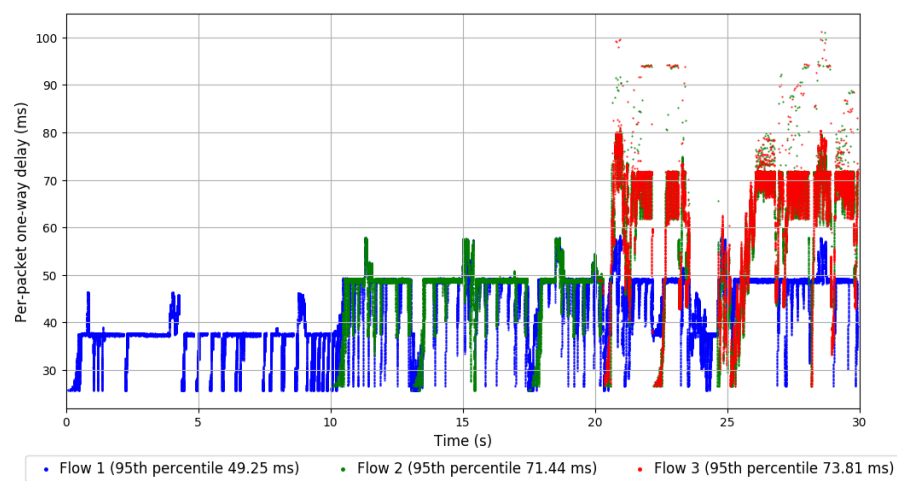
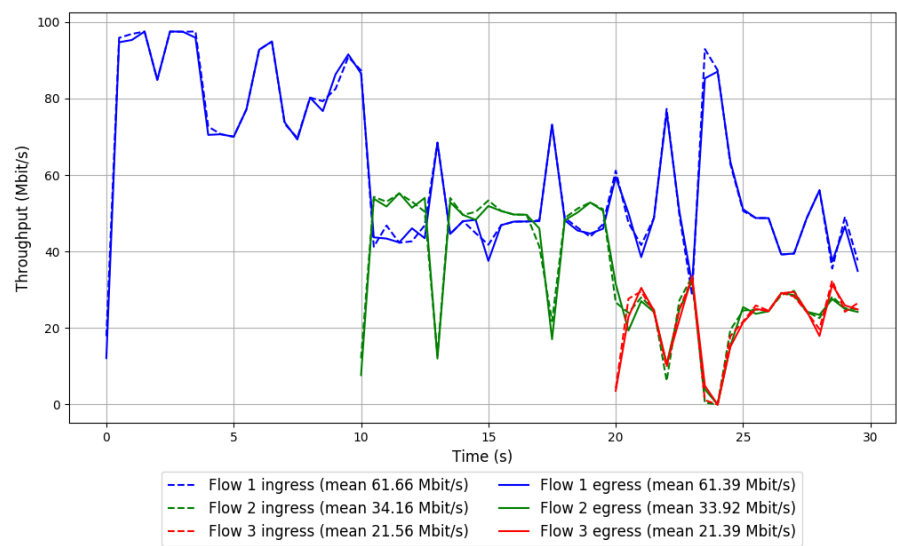
-- Flow 3:

Average throughput: 21.39 Mbit/s

95th percentile per-packet one-way delay: 73.811 ms

Loss rate: 1.71%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 10:40:42

End at: 2018-01-02 10:41:12

Local clock offset: 0.604 ms

Remote clock offset: 1.568 ms

Below is generated by plot.py at 2018-01-02 14:32:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 69.377 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 59.90 Mbit/s

95th percentile per-packet one-way delay: 47.998 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 69.546 ms

Loss rate: 0.71%

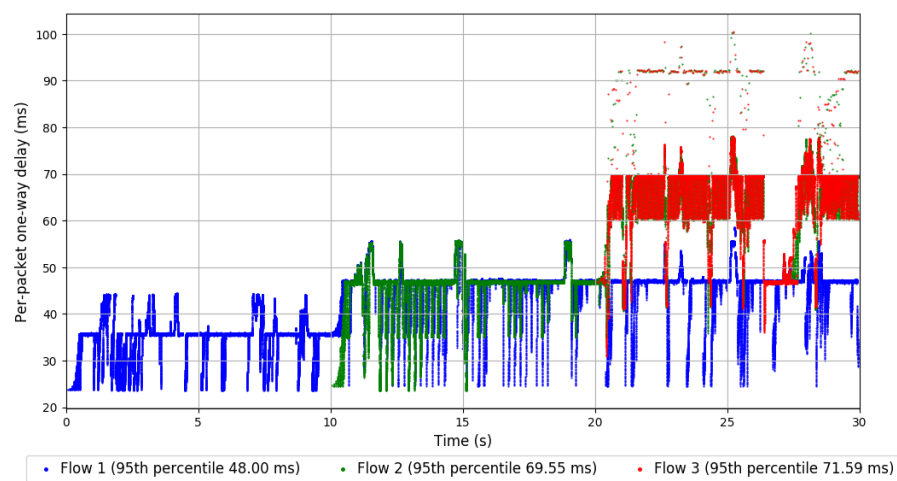
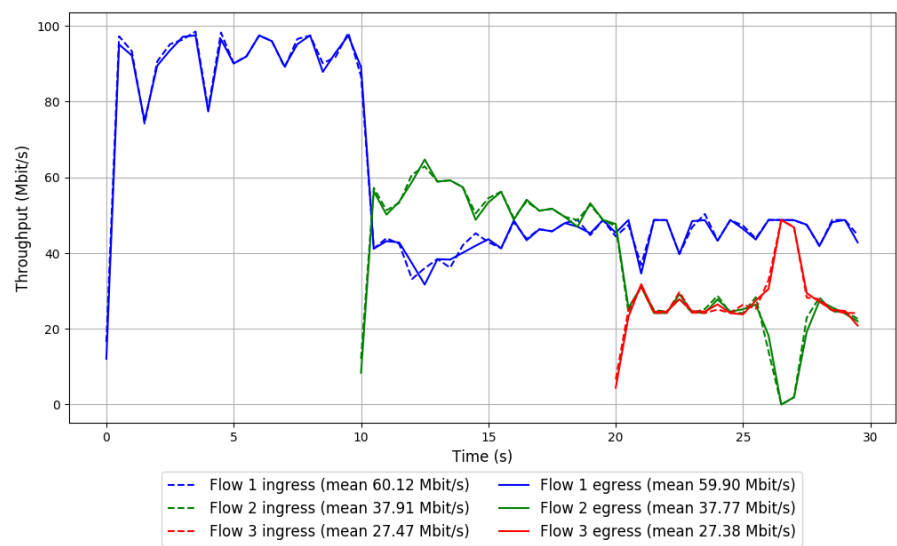
-- Flow 3:

Average throughput: 27.38 Mbit/s

95th percentile per-packet one-way delay: 71.589 ms

Loss rate: 1.36%

Run 10: Report of Verus — Data Link

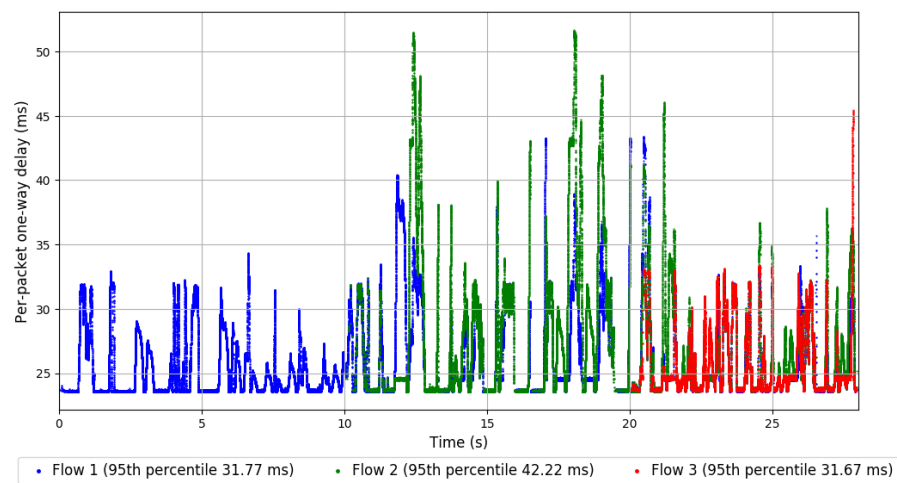
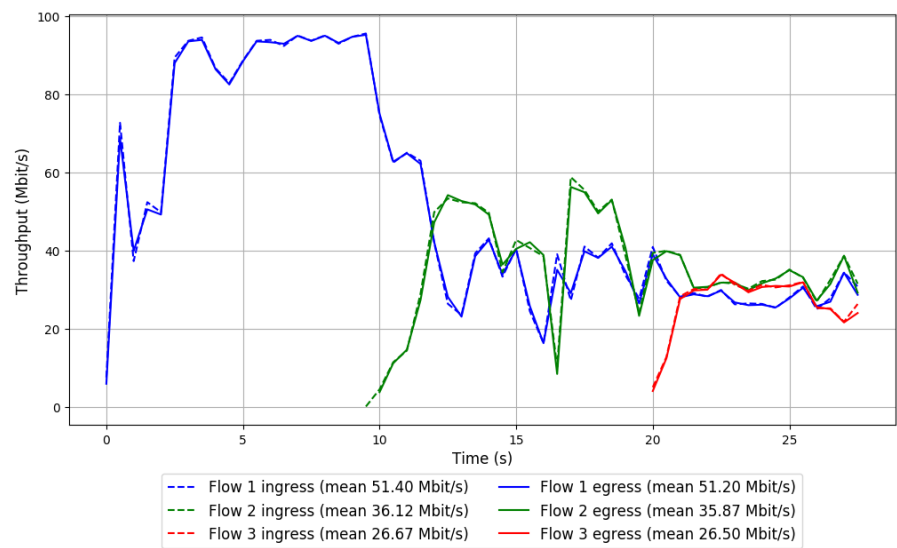


Run 1: Statistics of Copa

Start at: 2018-01-02 07:31:38
End at: 2018-01-02 07:32:08
Local clock offset: 0.124 ms
Remote clock offset: -1.226 ms

Below is generated by plot.py at 2018-01-02 14:33:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.72 Mbit/s
95th percentile per-packet one-way delay: 33.673 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 51.20 Mbit/s
95th percentile per-packet one-way delay: 31.766 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 42.224 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 31.668 ms
Loss rate: 1.29%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 07:52:18

End at: 2018-01-02 07:52:48

Local clock offset: 0.035 ms

Remote clock offset: -0.83 ms

Below is generated by plot.py at 2018-01-02 14:33:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 31.504 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 31.486 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 31.588 ms

Loss rate: 1.99%

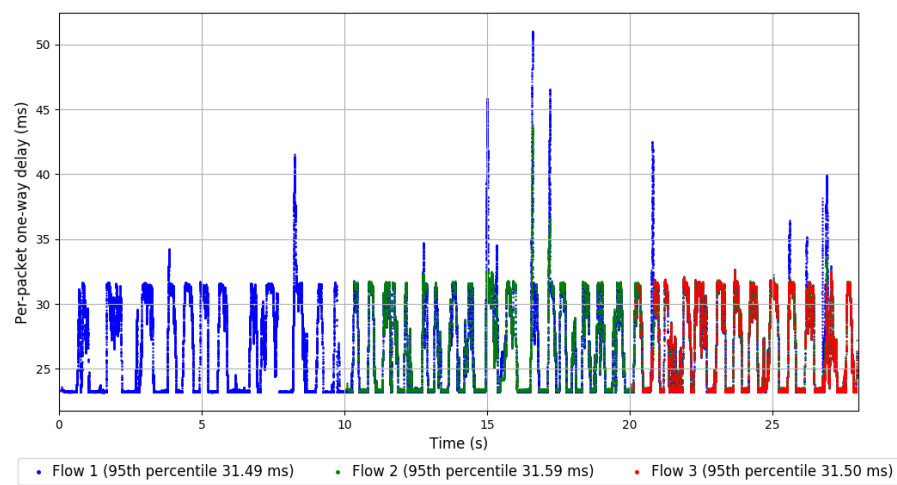
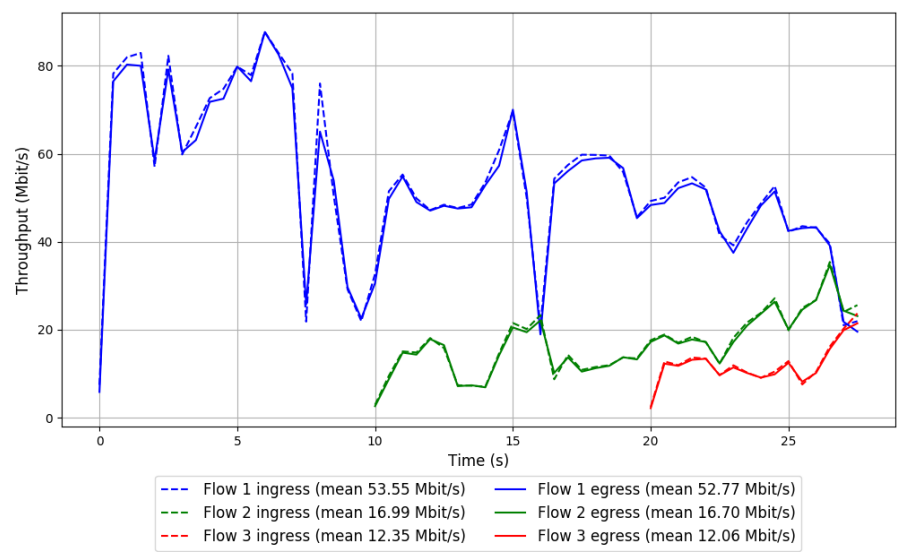
-- Flow 3:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 31.505 ms

Loss rate: 2.98%

Run 2: Report of Copa — Data Link

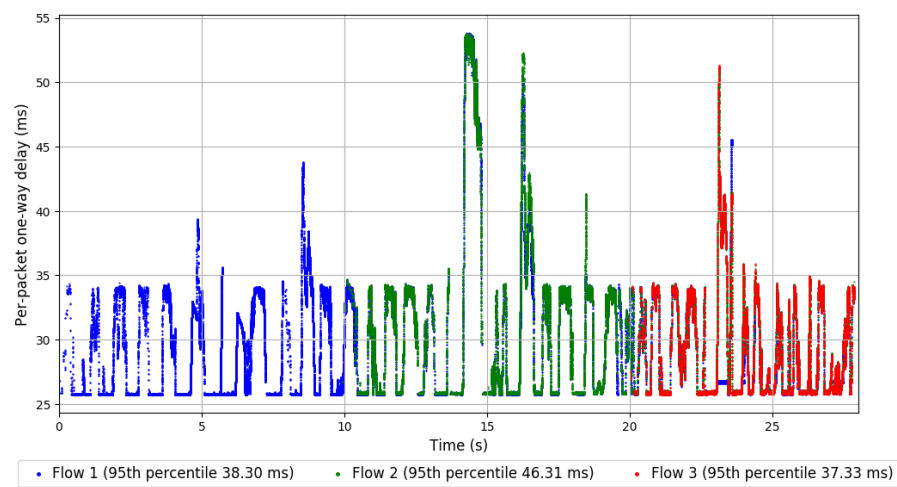
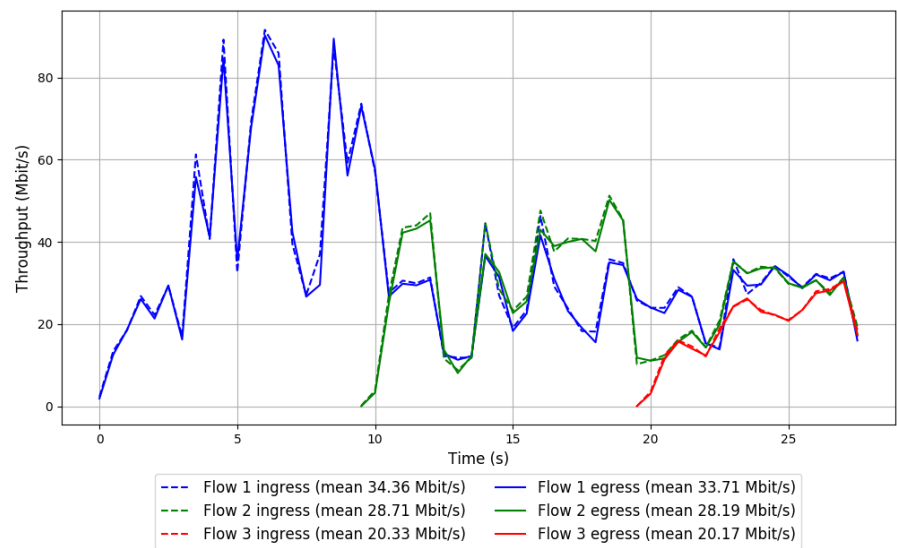


Run 3: Statistics of Copa

Start at: 2018-01-02 08:15:44
End at: 2018-01-02 08:16:14
Local clock offset: 0.204 ms
Remote clock offset: -2.454 ms

Below is generated by plot.py at 2018-01-02 14:33:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 40.768 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 38.301 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 46.314 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 20.17 Mbit/s
95th percentile per-packet one-way delay: 37.329 ms
Loss rate: 1.54%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 08:38:22

End at: 2018-01-02 08:38:52

Local clock offset: 0.132 ms

Remote clock offset: 0.644 ms

Below is generated by plot.py at 2018-01-02 14:33:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.80 Mbit/s

95th percentile per-packet one-way delay: 32.784 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 32.386 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 41.07 Mbit/s

95th percentile per-packet one-way delay: 32.606 ms

Loss rate: 1.51%

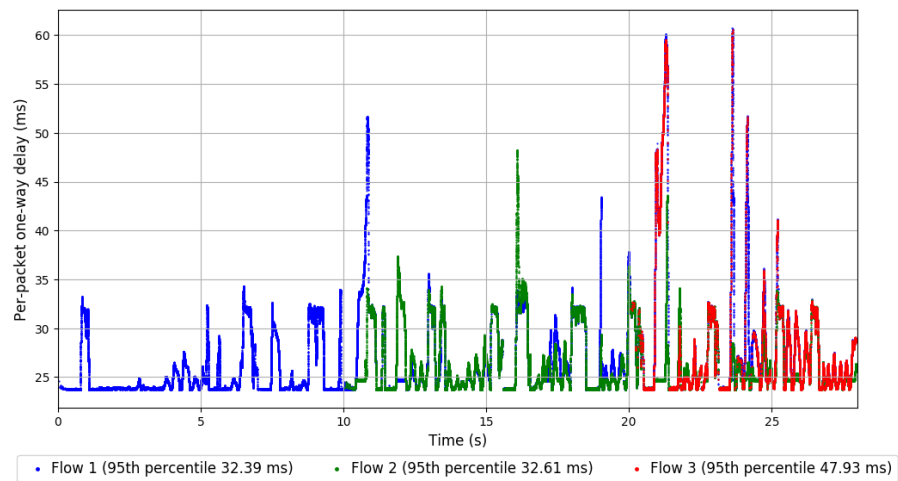
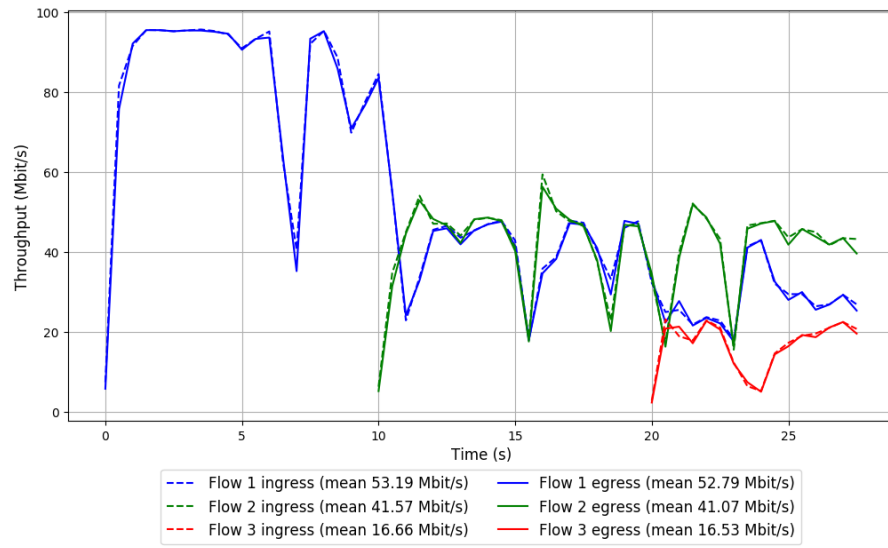
-- Flow 3:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 47.932 ms

Loss rate: 1.51%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 08:59:46

End at: 2018-01-02 09:00:16

Local clock offset: 0.253 ms

Remote clock offset: 1.549 ms

Below is generated by plot.py at 2018-01-02 14:34:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 31.901 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 31.281 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 33.172 ms

Loss rate: 0.61%

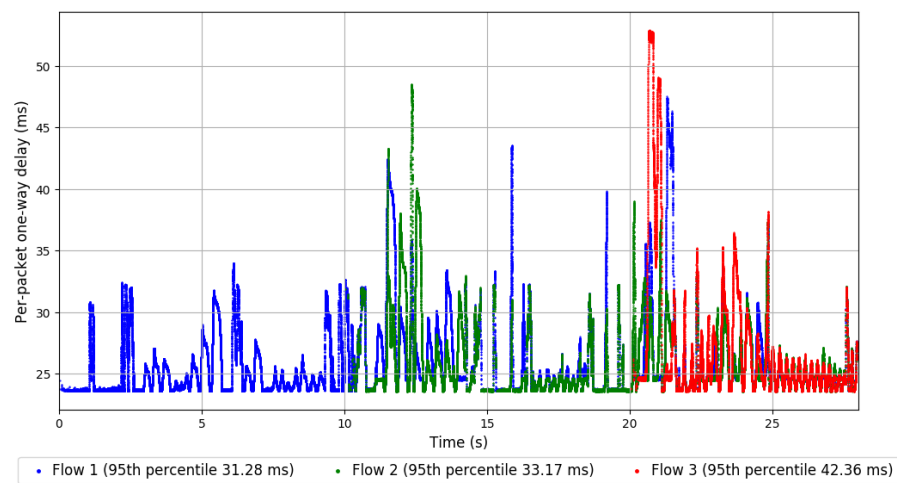
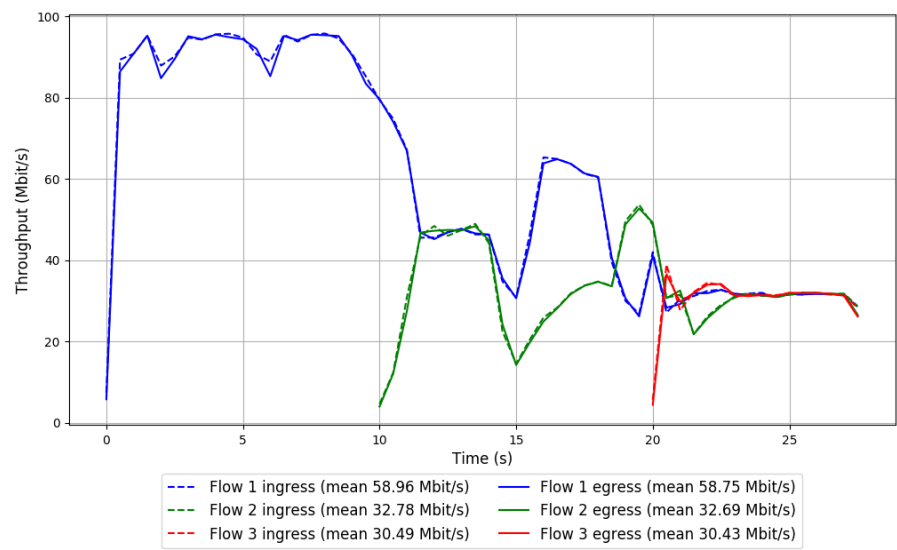
-- Flow 3:

Average throughput: 30.43 Mbit/s

95th percentile per-packet one-way delay: 42.356 ms

Loss rate: 0.88%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 09:20:21

End at: 2018-01-02 09:20:51

Local clock offset: 0.356 ms

Remote clock offset: 2.749 ms

Below is generated by plot.py at 2018-01-02 14:34:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 33.947 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 56.48 Mbit/s

95th percentile per-packet one-way delay: 33.132 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 36.32 Mbit/s

95th percentile per-packet one-way delay: 35.764 ms

Loss rate: 0.53%

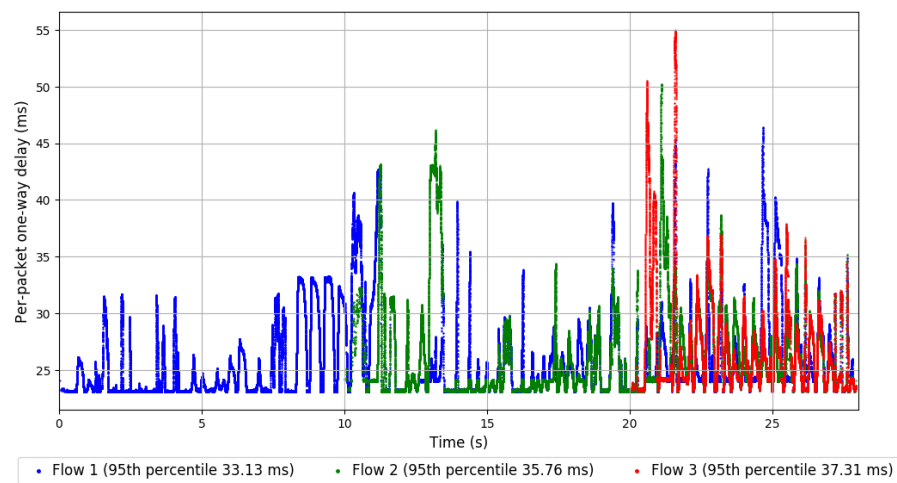
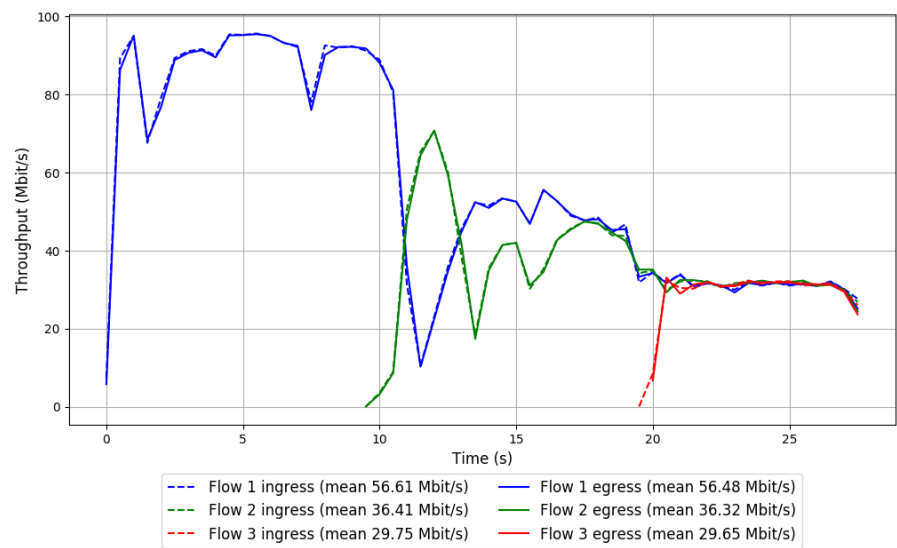
-- Flow 3:

Average throughput: 29.65 Mbit/s

95th percentile per-packet one-way delay: 37.306 ms

Loss rate: 1.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 09:41:30

End at: 2018-01-02 09:42:00

Local clock offset: 0.301 ms

Remote clock offset: 2.862 ms

Below is generated by plot.py at 2018-01-02 14:34:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 31.424 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 30.598 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 31.854 ms

Loss rate: 0.68%

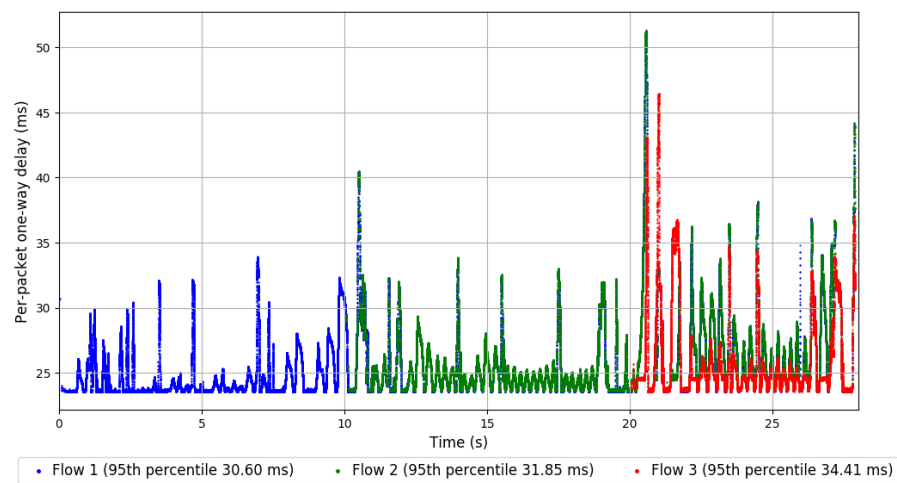
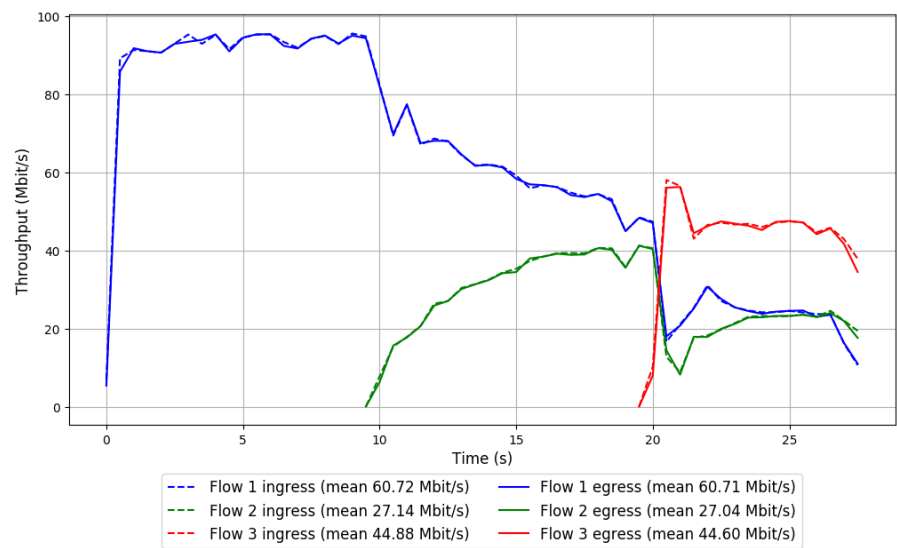
-- Flow 3:

Average throughput: 44.60 Mbit/s

95th percentile per-packet one-way delay: 34.410 ms

Loss rate: 1.29%

Run 7: Report of Copa — Data Link

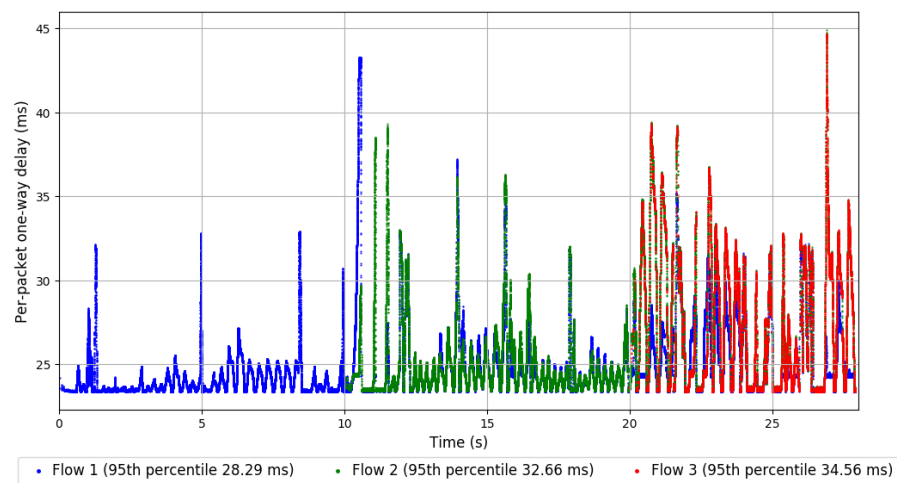
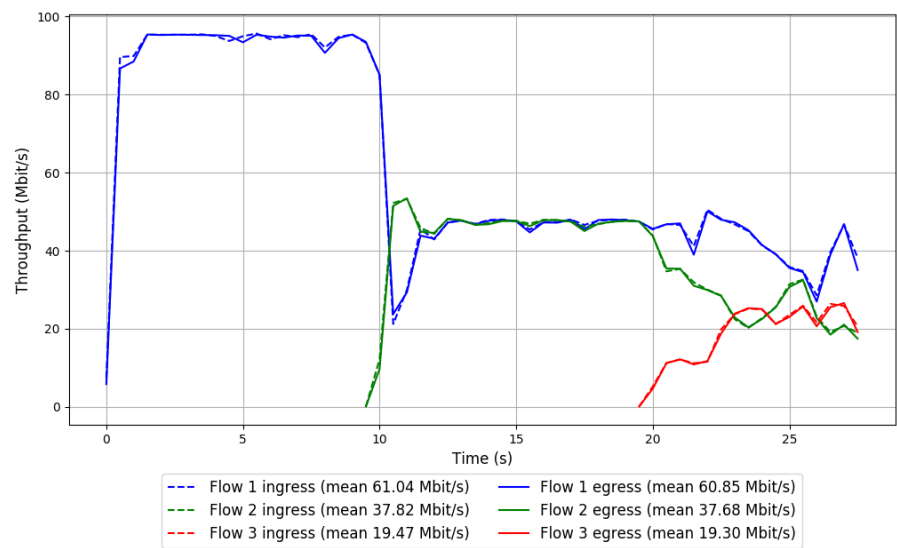


Run 8: Statistics of Copa

Start at: 2018-01-02 10:02:05
End at: 2018-01-02 10:02:35
Local clock offset: 0.347 ms
Remote clock offset: 2.946 ms

```
# Below is generated by plot.py at 2018-01-02 14:35:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 30.915 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 28.286 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 37.68 Mbit/s
95th percentile per-packet one-way delay: 32.664 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 19.30 Mbit/s
95th percentile per-packet one-way delay: 34.565 ms
Loss rate: 1.53%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 10:22:54

End at: 2018-01-02 10:23:24

Local clock offset: 0.564 ms

Remote clock offset: 2.613 ms

Below is generated by plot.py at 2018-01-02 14:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.98 Mbit/s

95th percentile per-packet one-way delay: 30.772 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 62.83 Mbit/s

95th percentile per-packet one-way delay: 30.275 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 31.309 ms

Loss rate: 0.72%

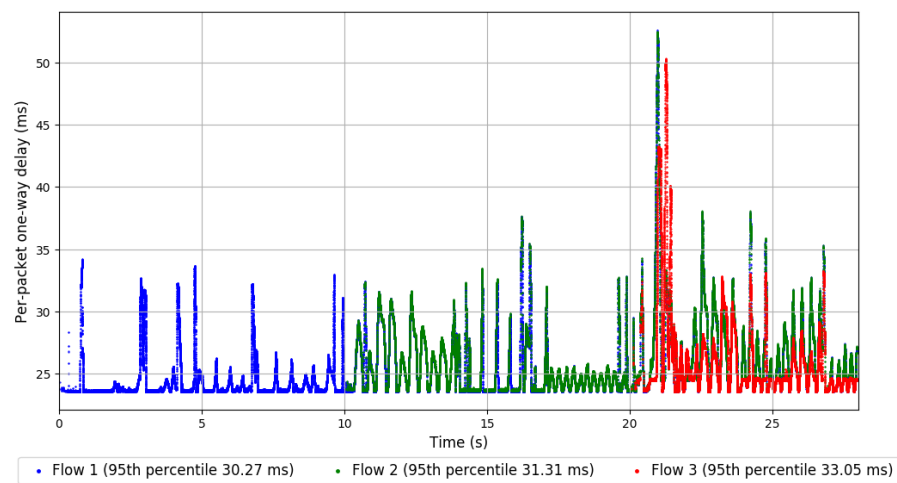
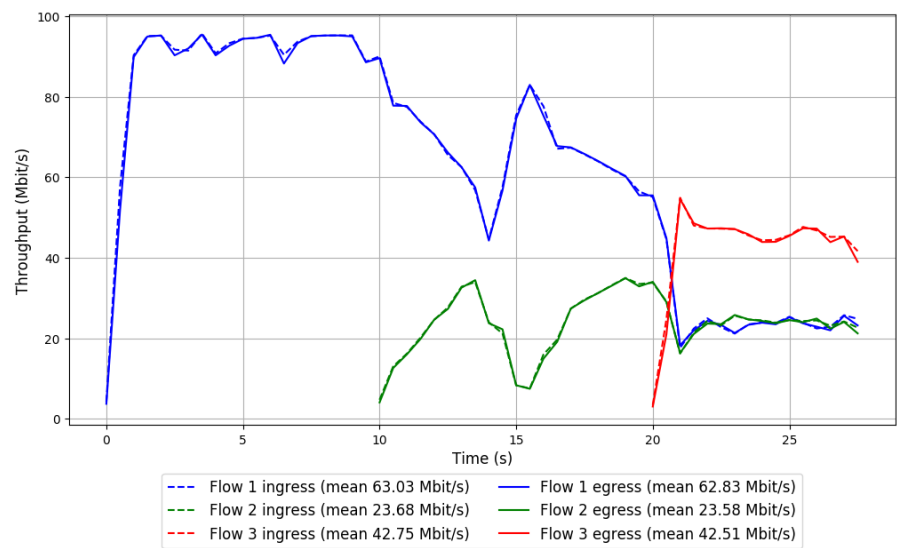
-- Flow 3:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 33.053 ms

Loss rate: 1.23%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 10:43:27

End at: 2018-01-02 10:43:57

Local clock offset: 0.727 ms

Remote clock offset: 1.426 ms

Below is generated by plot.py at 2018-01-02 14:35:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 34.161 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 32.821 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 37.780 ms

Loss rate: 0.45%

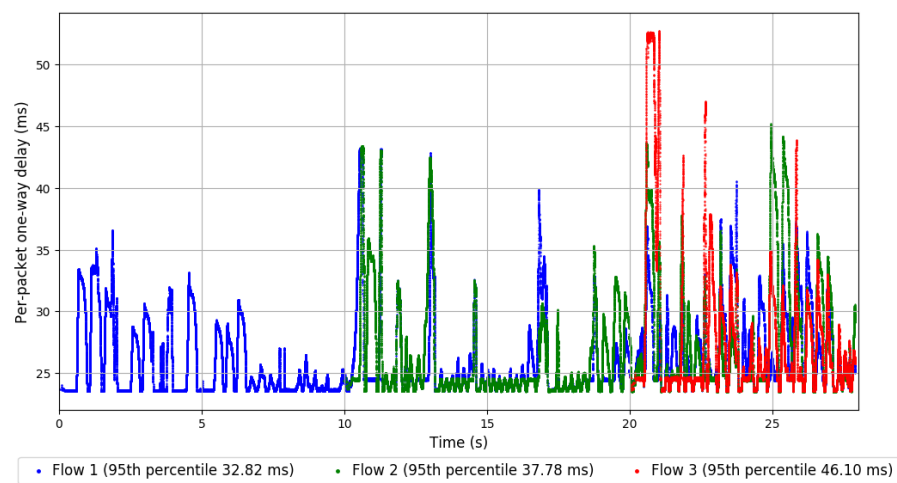
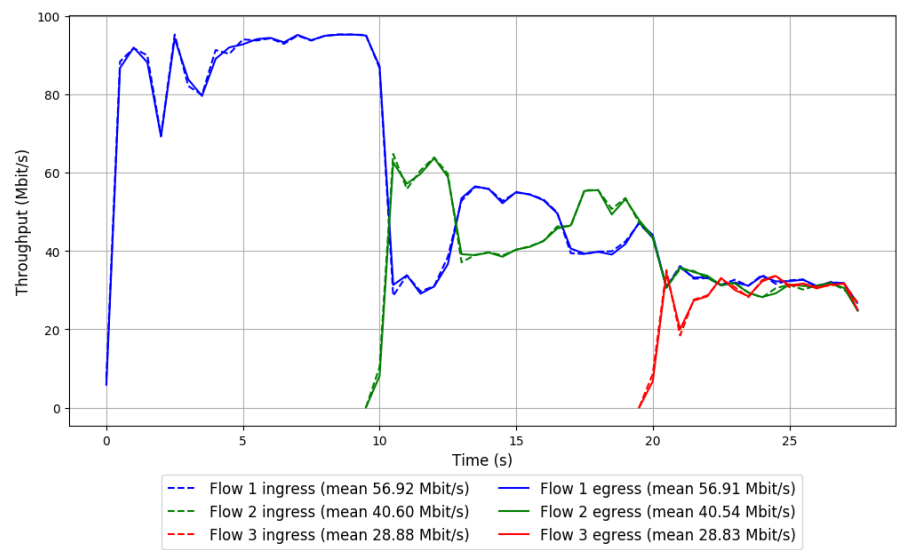
-- Flow 3:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 46.104 ms

Loss rate: 0.84%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-02 07:23:11

End at: 2018-01-02 07:23:41

Local clock offset: 0.237 ms

Remote clock offset: -0.84 ms

Below is generated by plot.py at 2018-01-02 14:35:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 64.022 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 63.966 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 47.93 Mbit/s

95th percentile per-packet one-way delay: 50.264 ms

Loss rate: 3.56%

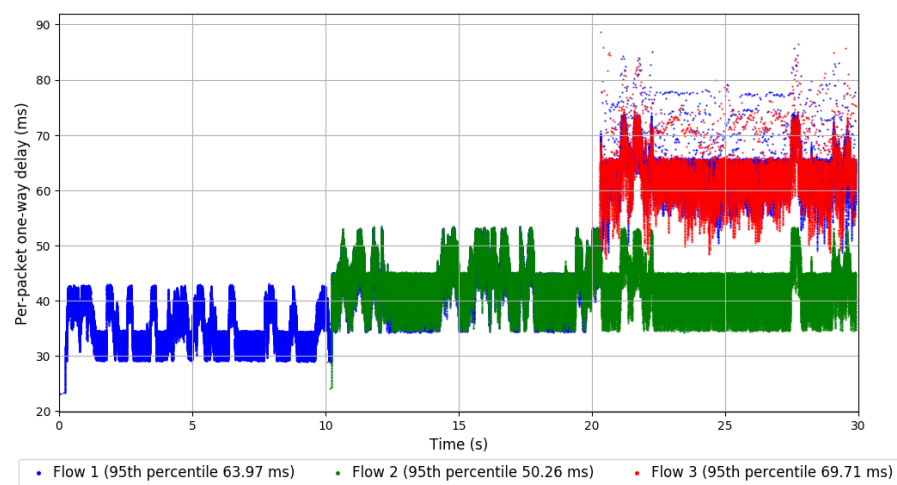
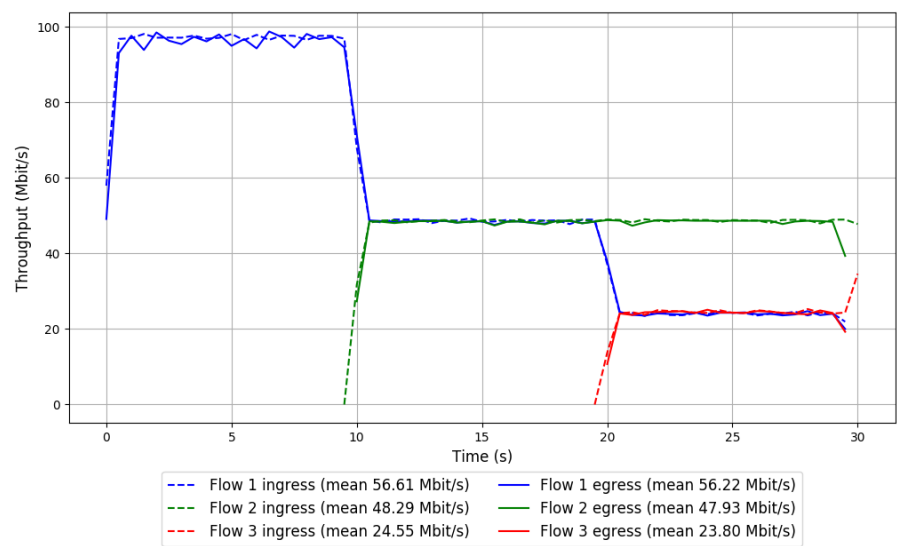
-- Flow 3:

Average throughput: 23.80 Mbit/s

95th percentile per-packet one-way delay: 69.713 ms

Loss rate: 8.66%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-02 07:44:04

End at: 2018-01-02 07:44:34

Local clock offset: 0.151 ms

Remote clock offset: -1.355 ms

Run 2: Report of FillP — Data Link

Figure is missing

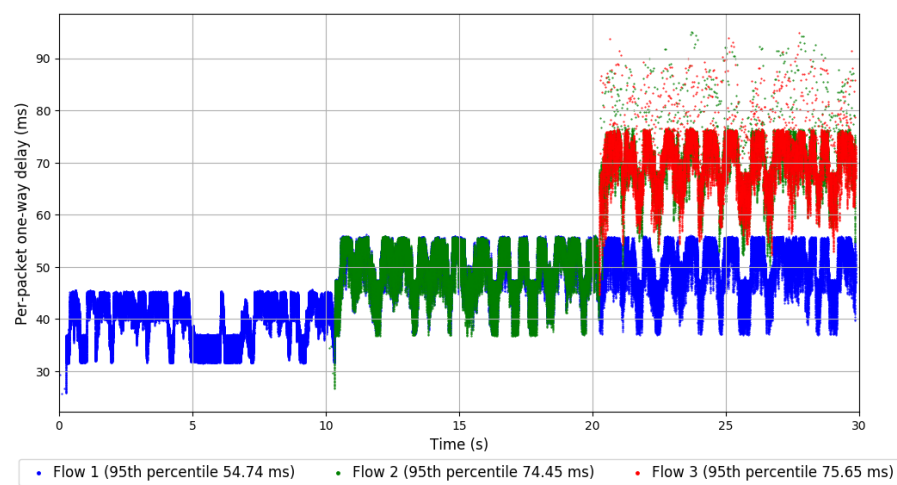
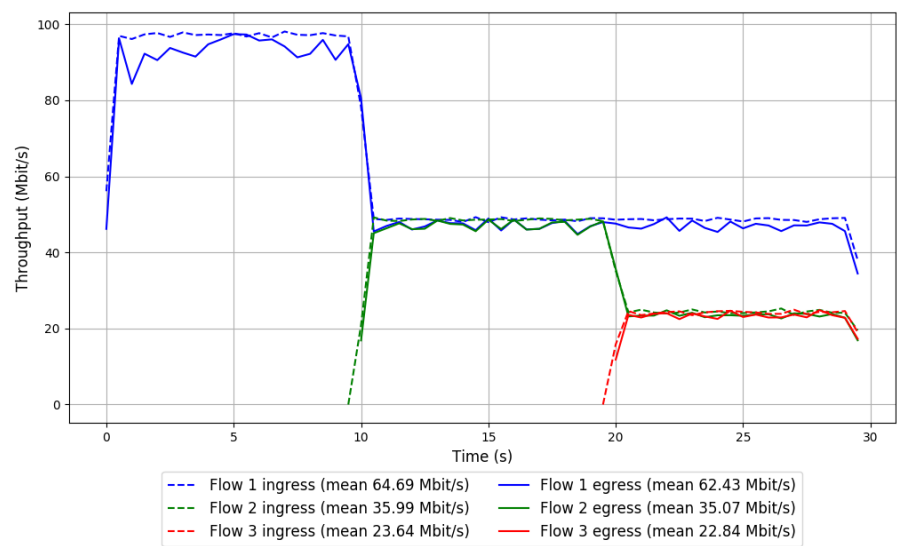
Figure is missing

Run 3: Statistics of FillP

Start at: 2018-01-02 08:06:15
End at: 2018-01-02 08:06:45
Local clock offset: 0.125 ms
Remote clock offset: -2.883 ms

Below is generated by plot.py at 2018-01-02 14:35:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 72.649 ms
Loss rate: 3.77%
-- Flow 1:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 54.740 ms
Loss rate: 3.71%
-- Flow 2:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 74.455 ms
Loss rate: 3.75%
-- Flow 3:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 75.650 ms
Loss rate: 4.33%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 08:29:52

End at: 2018-01-02 08:30:22

Local clock offset: 0.08 ms

Remote clock offset: 0.335 ms

Below is generated by plot.py at 2018-01-02 14:36:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 65.902 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 65.257 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 69.814 ms

Loss rate: 1.21%

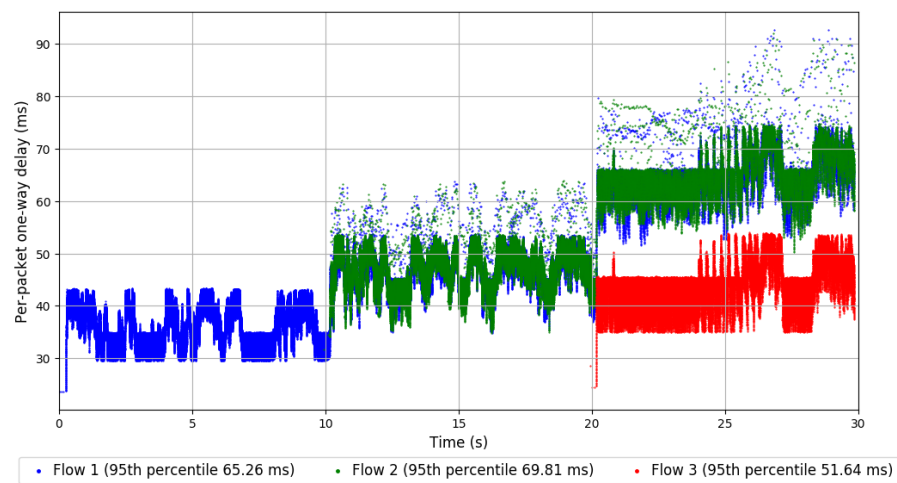
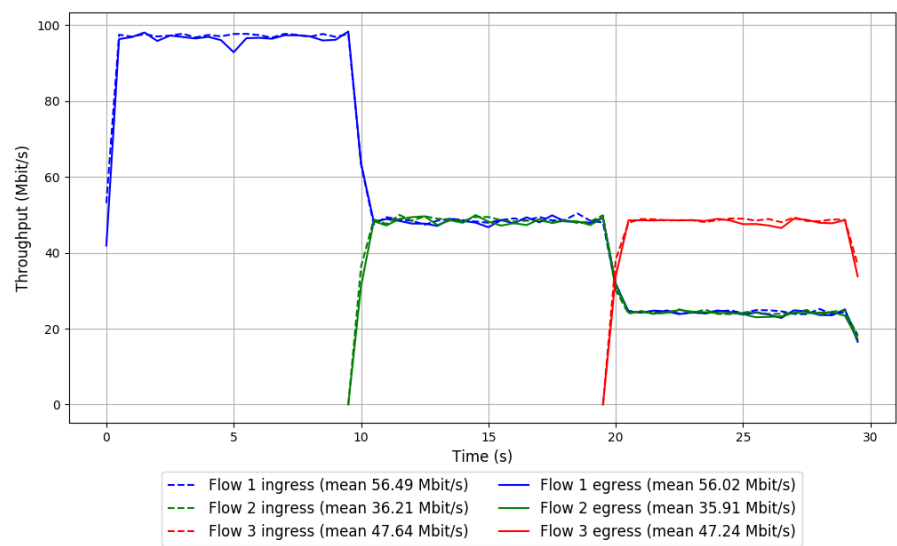
-- Flow 3:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 51.644 ms

Loss rate: 1.50%

Run 4: Report of FillP — Data Link

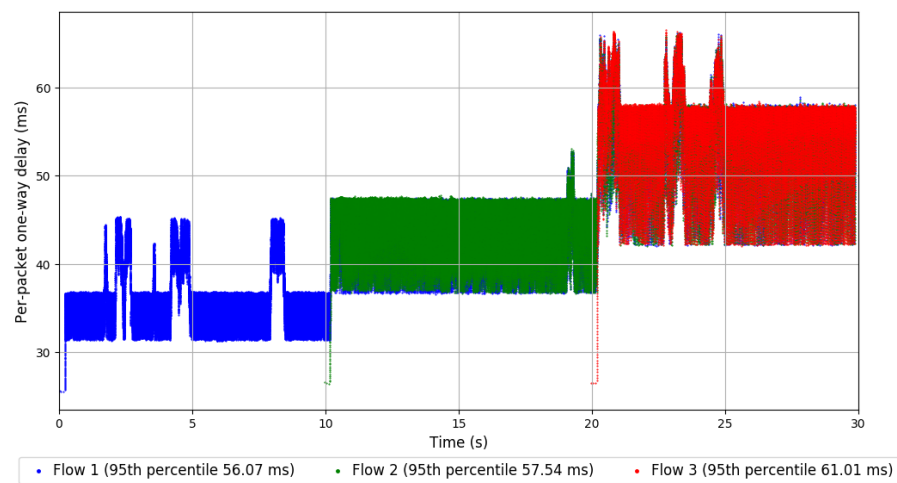
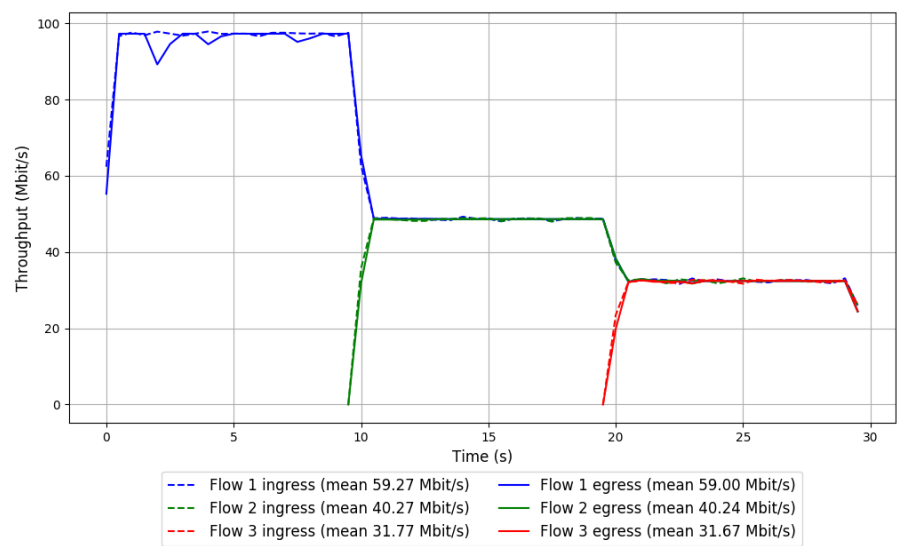


Run 5: Statistics of FillP

Start at: 2018-01-02 08:51:31
End at: 2018-01-02 08:52:01
Local clock offset: 0.204 ms
Remote clock offset: -0.914 ms

Below is generated by plot.py at 2018-01-02 14:36:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 57.363 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 56.074 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 61.007 ms
Loss rate: 0.89%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 09:12:14

End at: 2018-01-02 09:12:44

Local clock offset: 0.35 ms

Remote clock offset: 2.413 ms

Run 6: Report of FillP — Data Link

Figure is missing

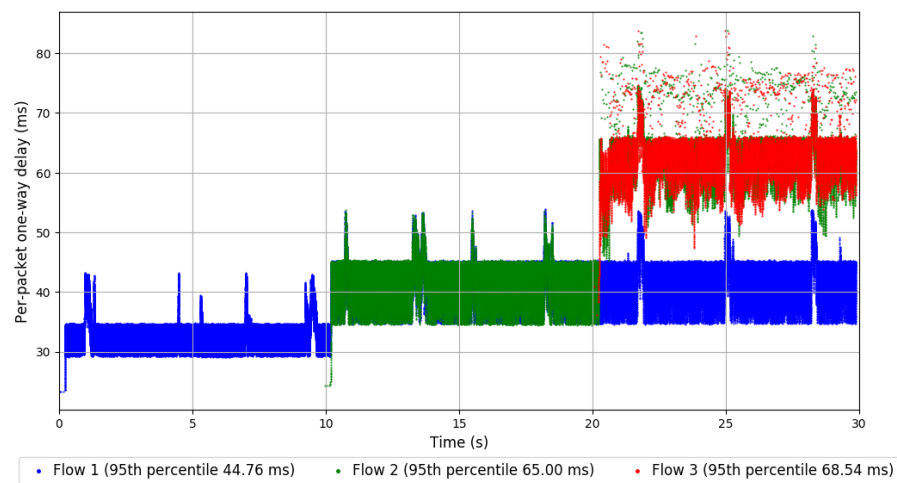
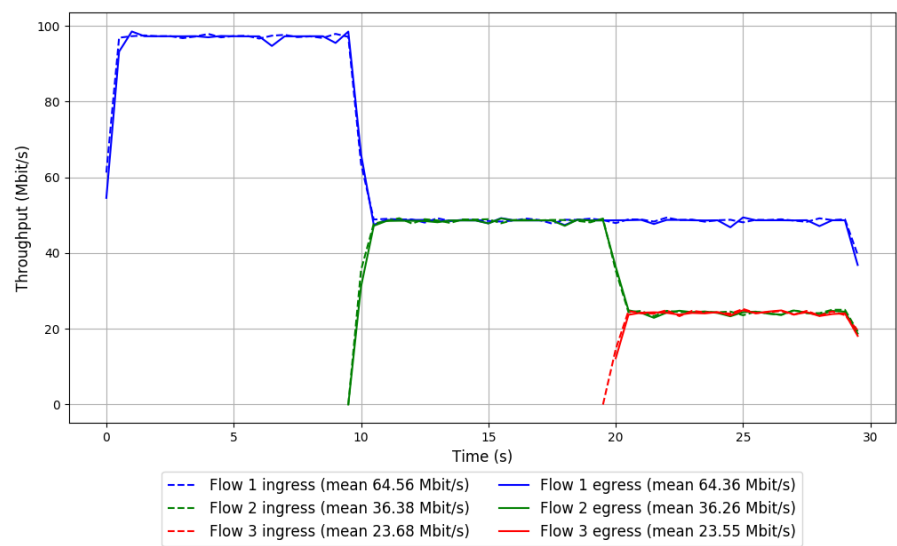
Figure is missing

Run 7: Statistics of FillP

Start at: 2018-01-02 09:33:10
End at: 2018-01-02 09:33:40
Local clock offset: 0.277 ms
Remote clock offset: 2.764 ms

Below is generated by plot.py at 2018-01-02 14:36:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 63.688 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 64.36 Mbit/s
95th percentile per-packet one-way delay: 44.762 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 64.999 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: 68.537 ms
Loss rate: 1.38%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 09:53:46

End at: 2018-01-02 09:54:16

Local clock offset: 0.402 ms

Remote clock offset: 3.422 ms

Below is generated by plot.py at 2018-01-02 14:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 2.81%

-- Flow 1:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 63.157 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 48.06 Mbit/s

95th percentile per-packet one-way delay: 44.921 ms

Loss rate: 5.03%

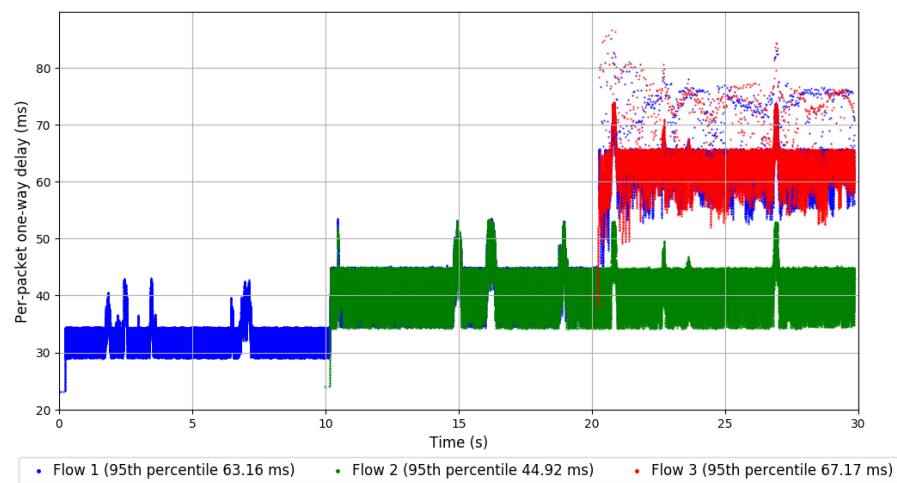
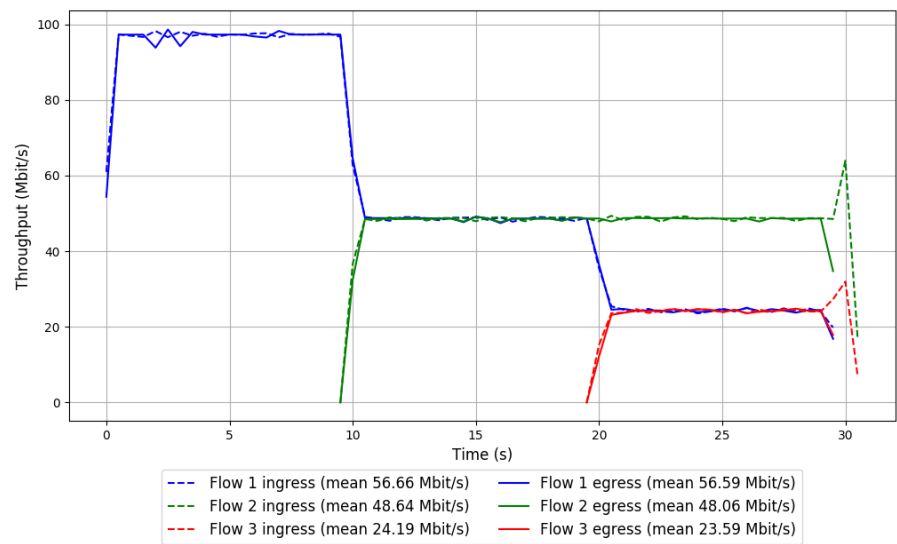
-- Flow 3:

Average throughput: 23.59 Mbit/s

95th percentile per-packet one-way delay: 67.169 ms

Loss rate: 10.03%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 10:14:44

End at: 2018-01-02 10:15:14

Local clock offset: 0.442 ms

Remote clock offset: 2.594 ms

Below is generated by plot.py at 2018-01-02 14:36:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 48.718 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 44.941 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 45.11 Mbit/s

95th percentile per-packet one-way delay: 59.019 ms

Loss rate: 0.62%

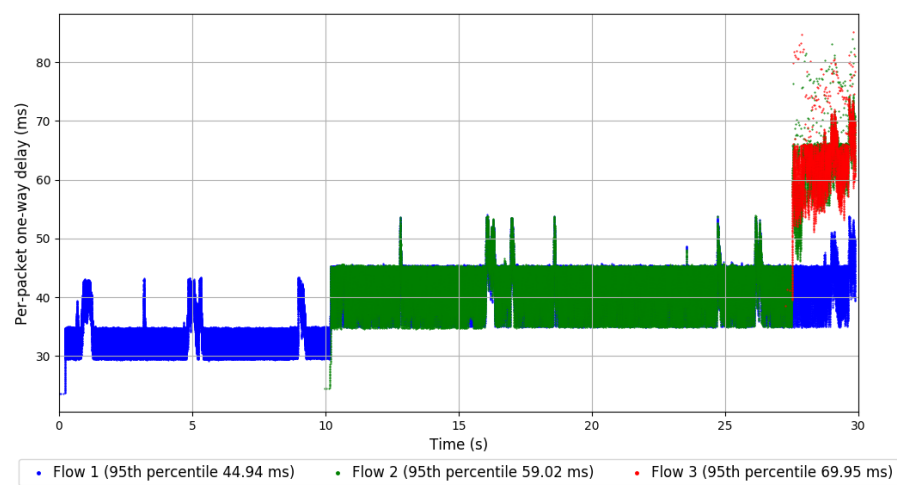
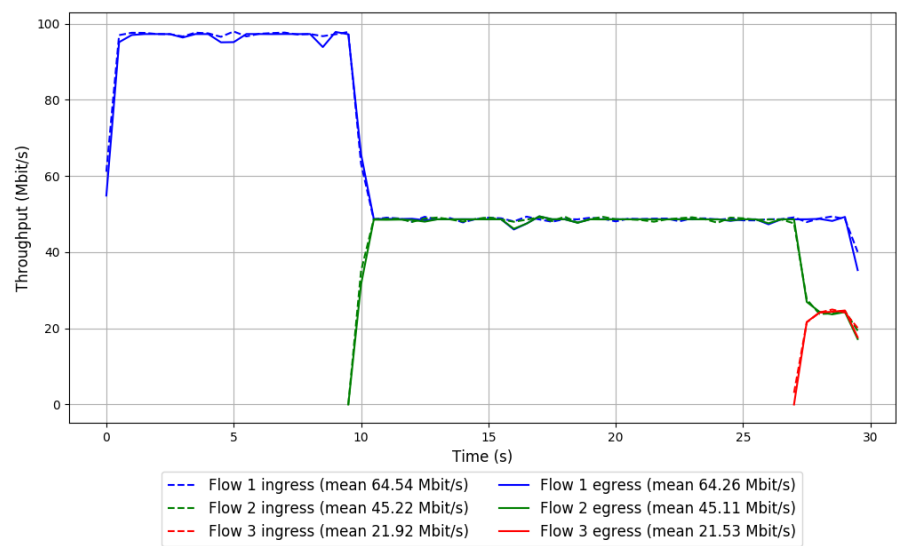
-- Flow 3:

Average throughput: 21.53 Mbit/s

95th percentile per-packet one-way delay: 69.950 ms

Loss rate: 4.66%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-02 10:35:16

End at: 2018-01-02 10:35:46

Local clock offset: 0.64 ms

Remote clock offset: 2.074 ms

Below is generated by plot.py at 2018-01-02 14:37:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 64.789 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 56.34 Mbit/s

95th percentile per-packet one-way delay: 64.477 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 66.691 ms

Loss rate: 0.82%

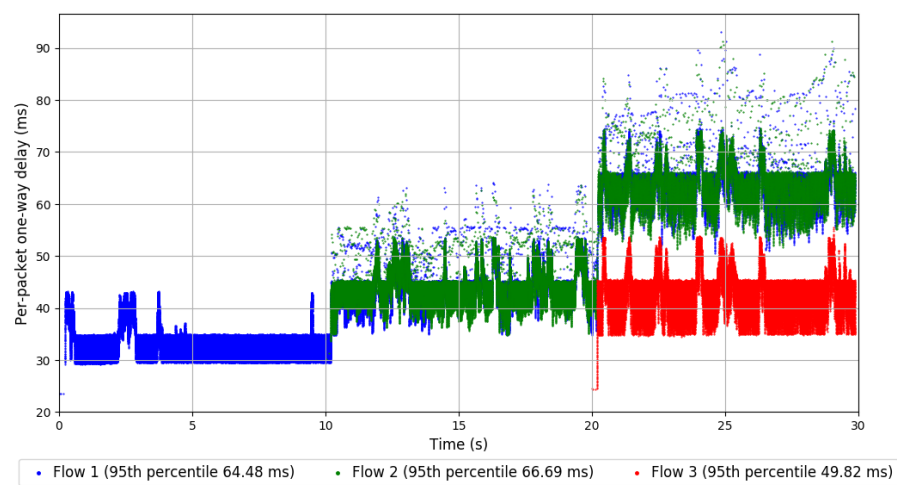
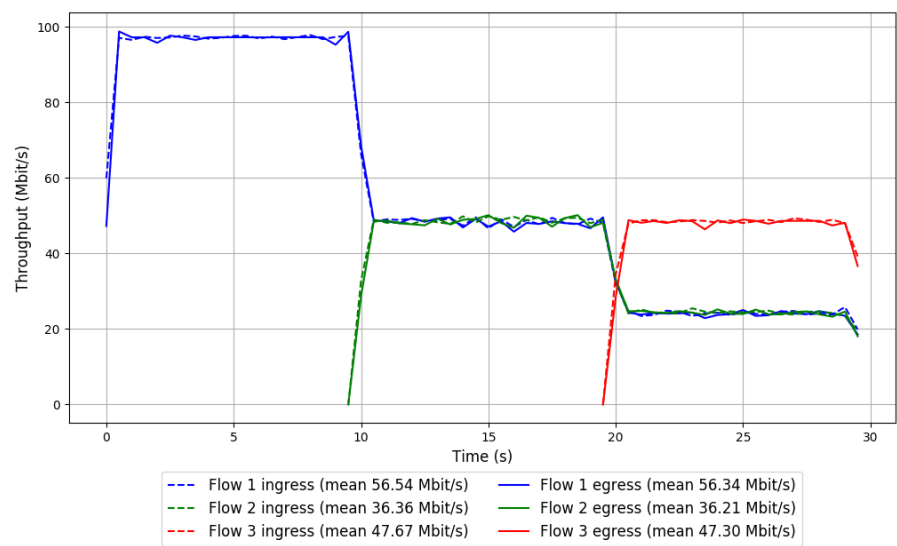
-- Flow 3:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 49.819 ms

Loss rate: 1.36%

Run 10: Report of FillP — Data Link

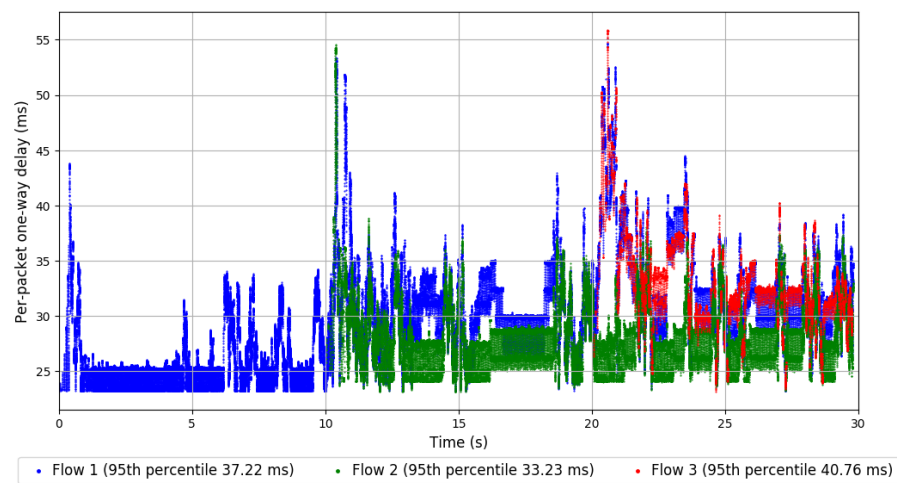
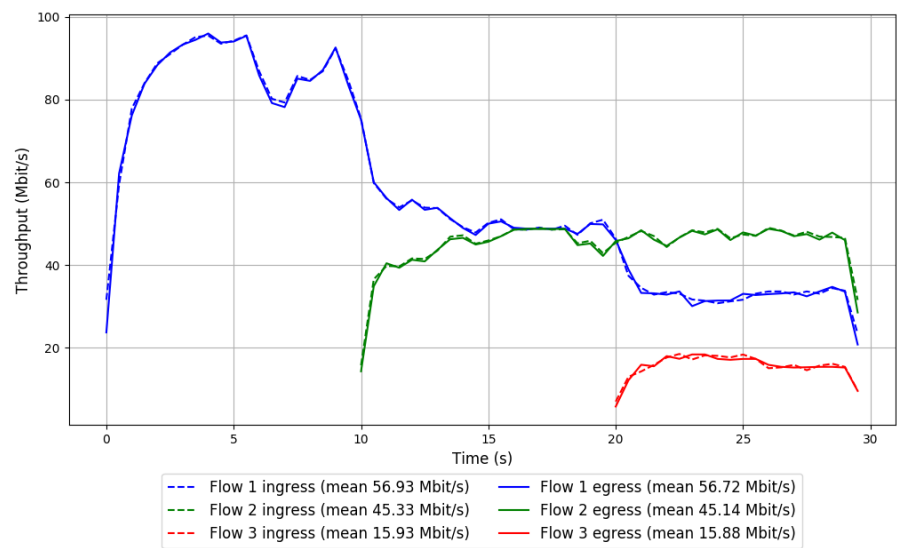


Run 1: Statistics of Indigo

Start at: 2018-01-02 07:21:46
End at: 2018-01-02 07:22:16
Local clock offset: 0.228 ms
Remote clock offset: -0.761 ms

Below is generated by plot.py at 2018-01-02 14:37:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 36.246 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 37.218 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 45.14 Mbit/s
95th percentile per-packet one-way delay: 33.229 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 40.757 ms
Loss rate: 0.91%

Run 1: Report of Indigo — Data Link

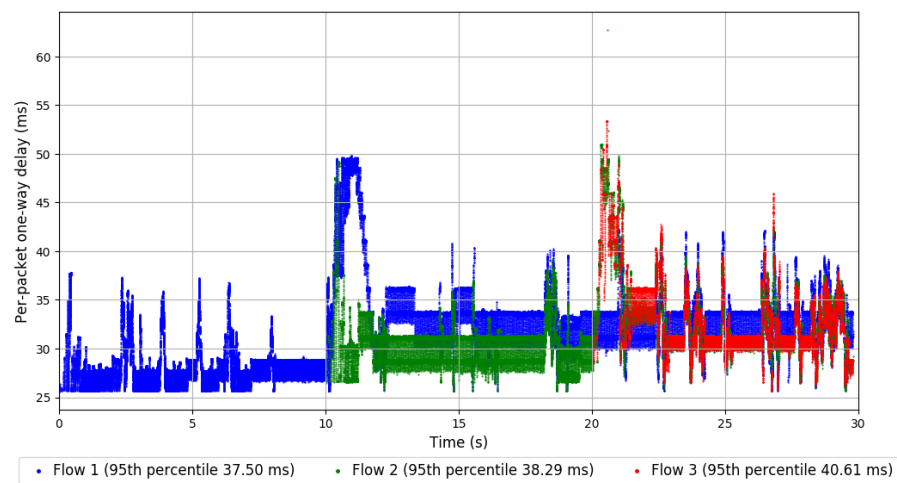
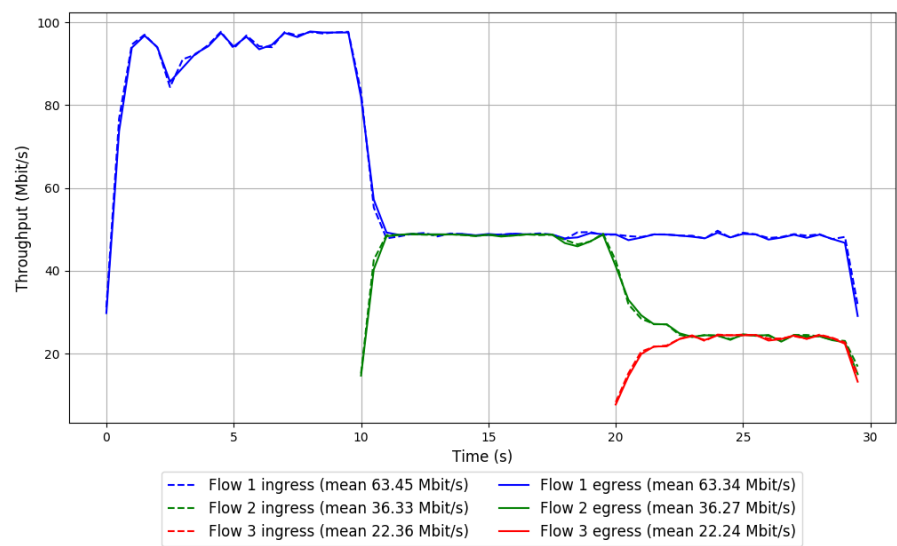


Run 2: Statistics of Indigo

Start at: 2018-01-02 07:42:39
End at: 2018-01-02 07:43:10
Local clock offset: 0.077 ms
Remote clock offset: -3.364 ms

Below is generated by plot.py at 2018-01-02 14:37:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 37.839 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 63.34 Mbit/s
95th percentile per-packet one-way delay: 37.497 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 38.292 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 40.609 ms
Loss rate: 1.09%

Run 2: Report of Indigo — Data Link

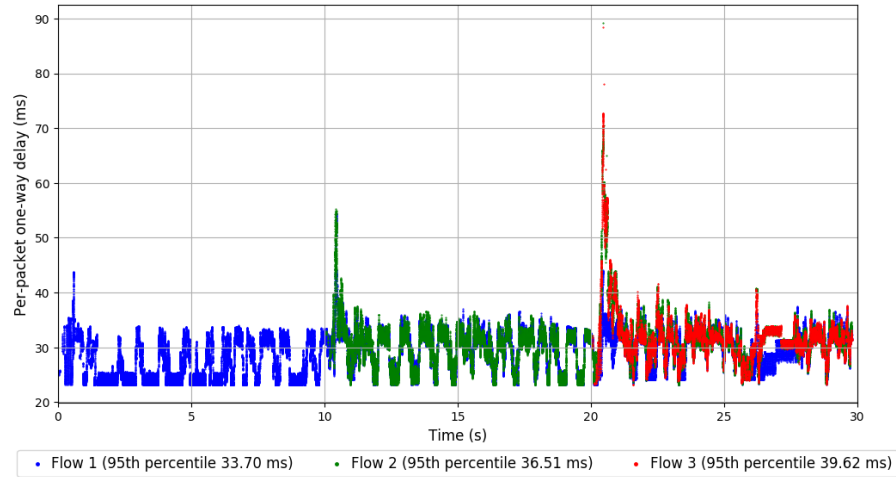
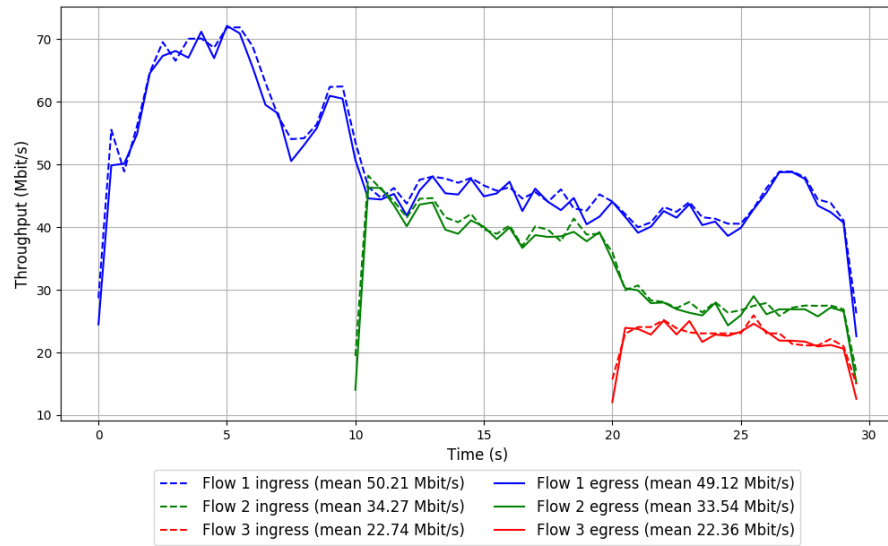


Run 3: Statistics of Indigo

Start at: 2018-01-02 08:04:24
End at: 2018-01-02 08:04:54
Local clock offset: 0.048 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2018-01-02 14:37:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 34.687 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 33.700 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 36.514 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 22.36 Mbit/s
95th percentile per-packet one-way delay: 39.617 ms
Loss rate: 2.27%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 08:27:54

End at: 2018-01-02 08:28:24

Local clock offset: 0.011 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2018-01-02 14:37:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 35.473 ms

Loss rate: 3.58%

-- Flow 1:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 34.931 ms

Loss rate: 3.58%

-- Flow 2:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 36.936 ms

Loss rate: 3.57%

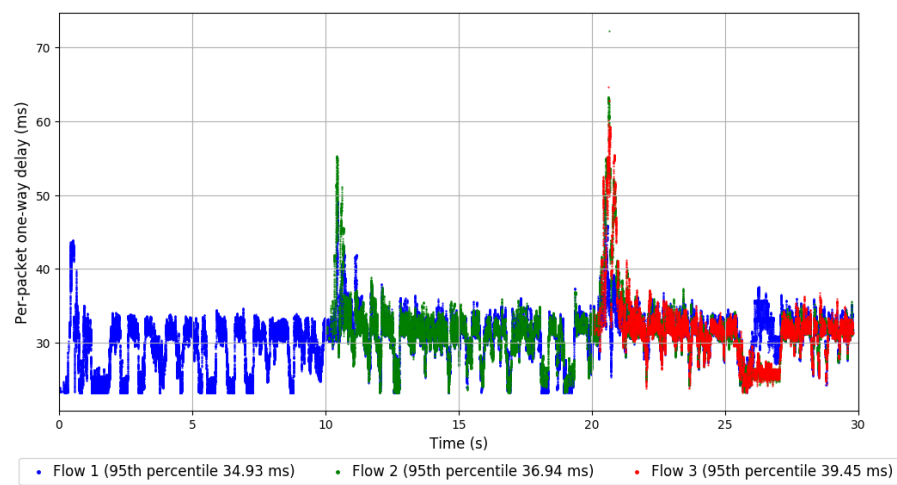
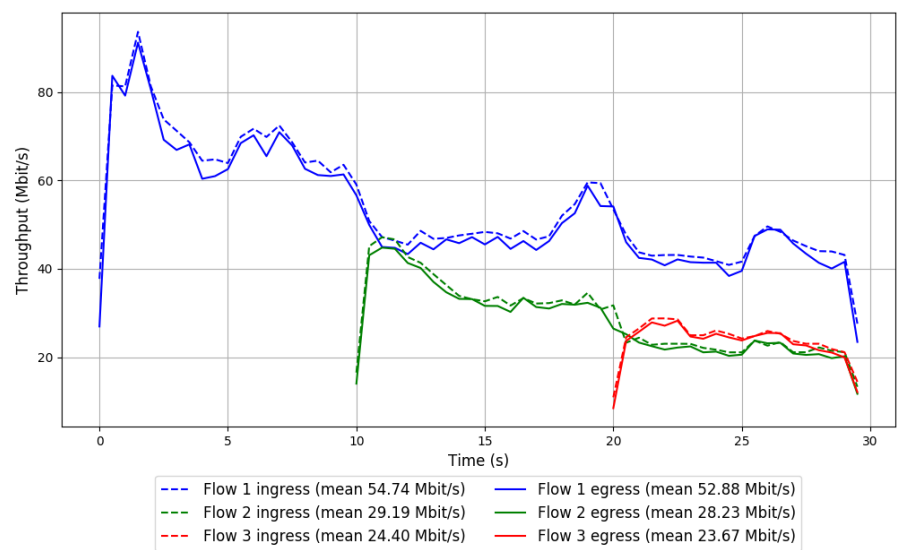
-- Flow 3:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 39.448 ms

Loss rate: 3.58%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 08:49:54

End at: 2018-01-02 08:50:24

Local clock offset: 0.279 ms

Remote clock offset: 1.09 ms

Below is generated by plot.py at 2018-01-02 14:37:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 37.896 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 57.80 Mbit/s

95th percentile per-packet one-way delay: 38.446 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 43.58 Mbit/s

95th percentile per-packet one-way delay: 34.314 ms

Loss rate: 1.29%

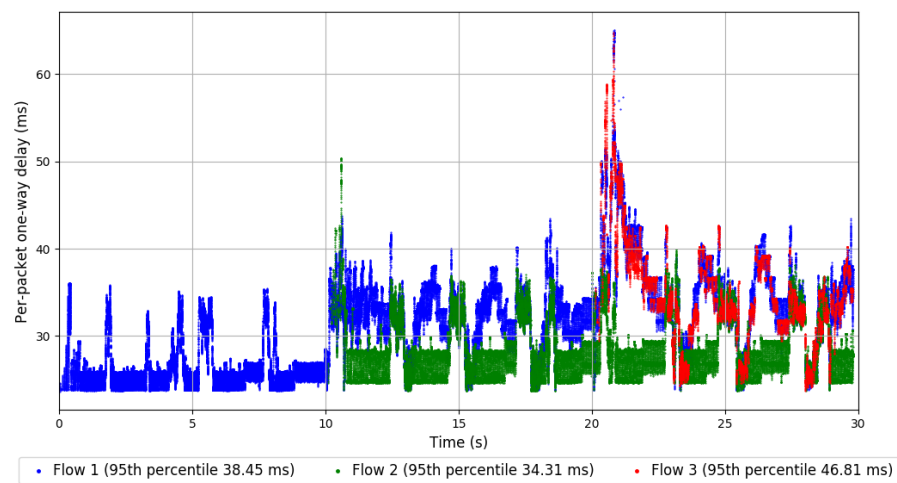
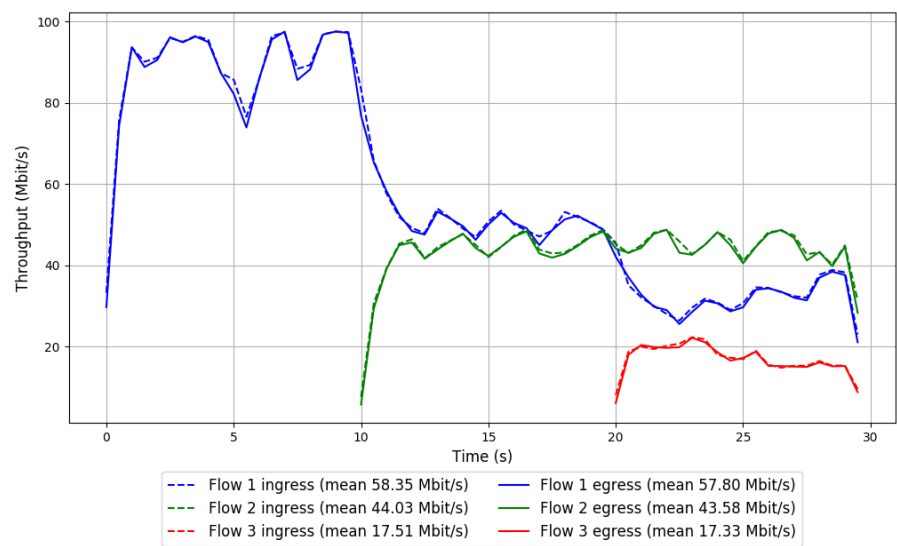
-- Flow 3:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 46.810 ms

Loss rate: 1.71%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 09:10:46

End at: 2018-01-02 09:11:16

Local clock offset: 0.35 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-01-02 14:38:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 38.665 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 63.37 Mbit/s

95th percentile per-packet one-way delay: 38.408 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 38.782 ms

Loss rate: 0.48%

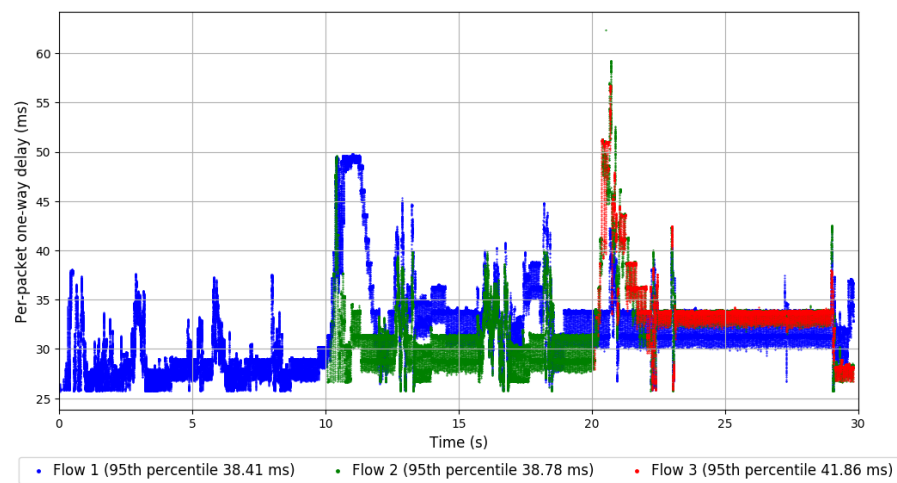
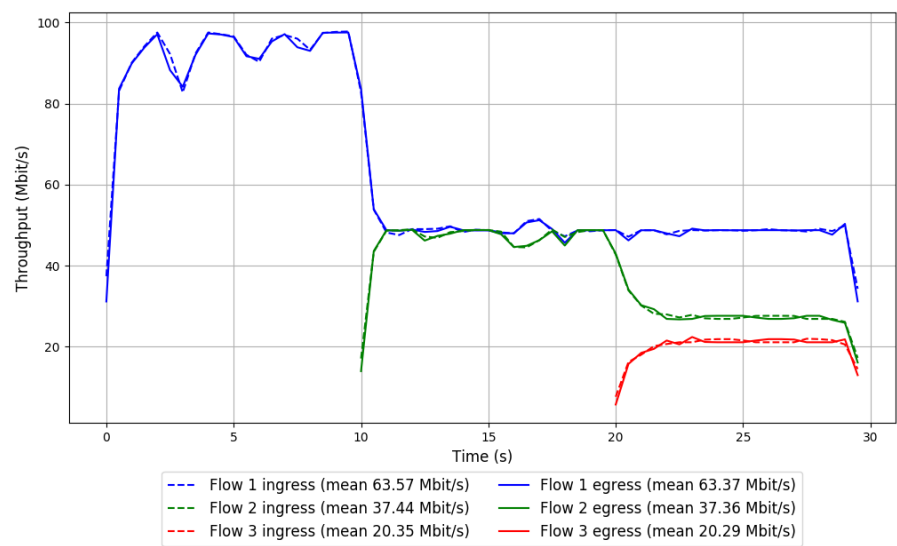
-- Flow 3:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 41.864 ms

Loss rate: 0.83%

Run 6: Report of Indigo — Data Link

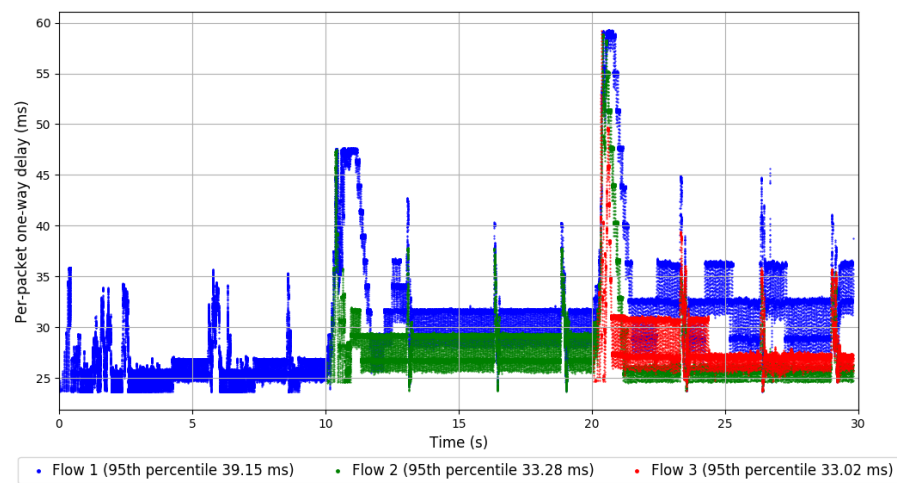
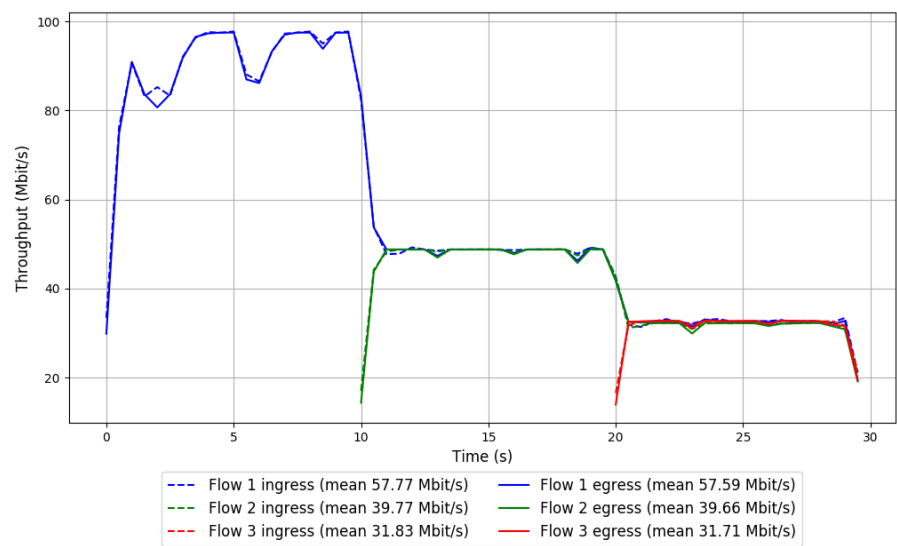


Run 7: Statistics of Indigo

Start at: 2018-01-02 09:31:37
End at: 2018-01-02 09:32:07
Local clock offset: 0.365 ms
Remote clock offset: 2.555 ms

Below is generated by plot.py at 2018-01-02 14:38:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.25 Mbit/s
95th percentile per-packet one-way delay: 36.503 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 57.59 Mbit/s
95th percentile per-packet one-way delay: 39.151 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 33.277 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 33.018 ms
Loss rate: 0.93%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 09:52:22

End at: 2018-01-02 09:52:52

Local clock offset: 0.314 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2018-01-02 14:38:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 37.906 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 40.192 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 36.078 ms

Loss rate: 0.40%

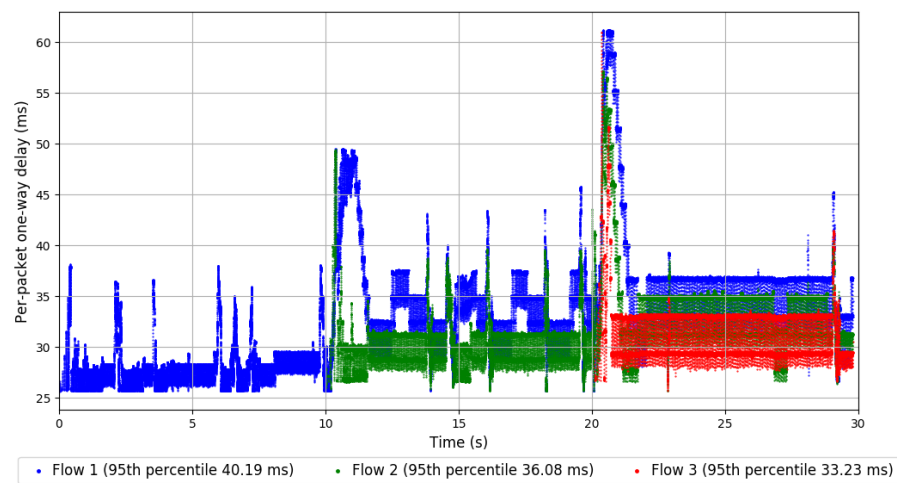
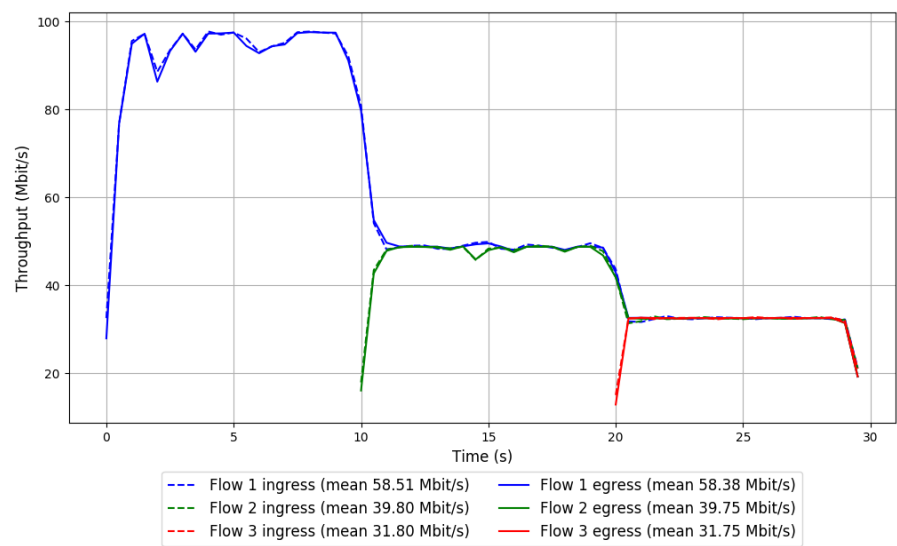
-- Flow 3:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 33.230 ms

Loss rate: 0.70%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 10:13:16

End at: 2018-01-02 10:13:46

Local clock offset: 0.527 ms

Remote clock offset: 3.053 ms

Below is generated by plot.py at 2018-01-02 14:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 35.138 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 37.976 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 31.343 ms

Loss rate: 0.62%

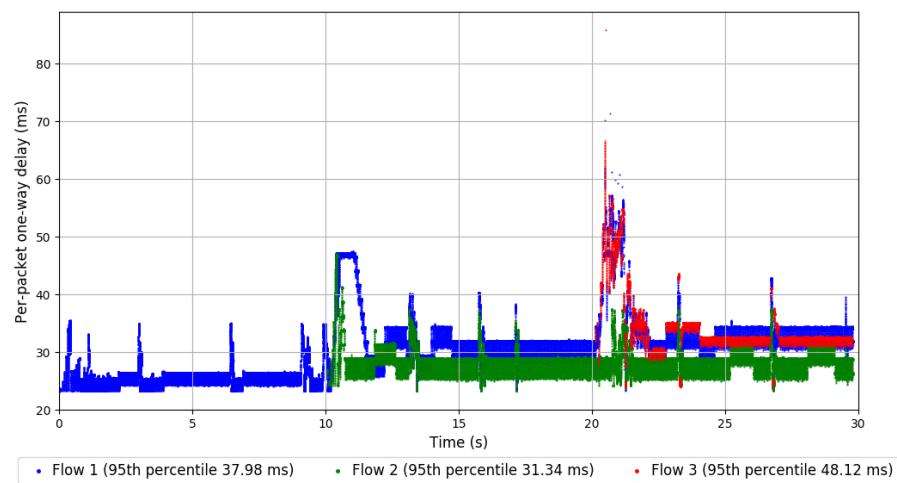
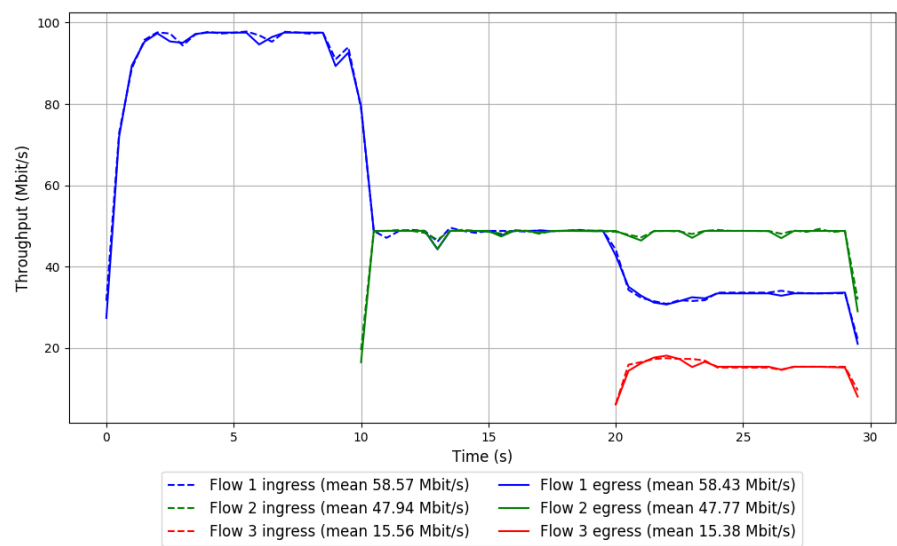
-- Flow 3:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 48.115 ms

Loss rate: 1.31%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 10:33:51

End at: 2018-01-02 10:34:21

Local clock offset: 0.52 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-01-02 14:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 38.147 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 57.64 Mbit/s

95th percentile per-packet one-way delay: 38.684 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 35.423 ms

Loss rate: 0.38%

-- Flow 3:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 35.095 ms

Loss rate: 0.64%

Run 10: Report of Indigo — Data Link

