

Pantheon Report

Generated at 2017-11-16 14:07:21 (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).

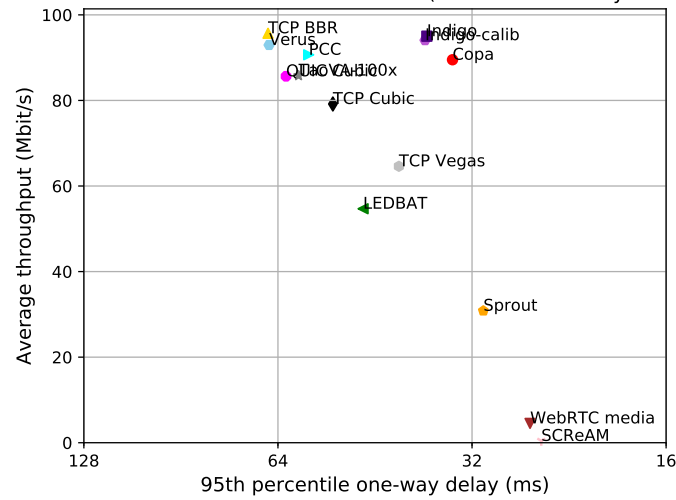
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

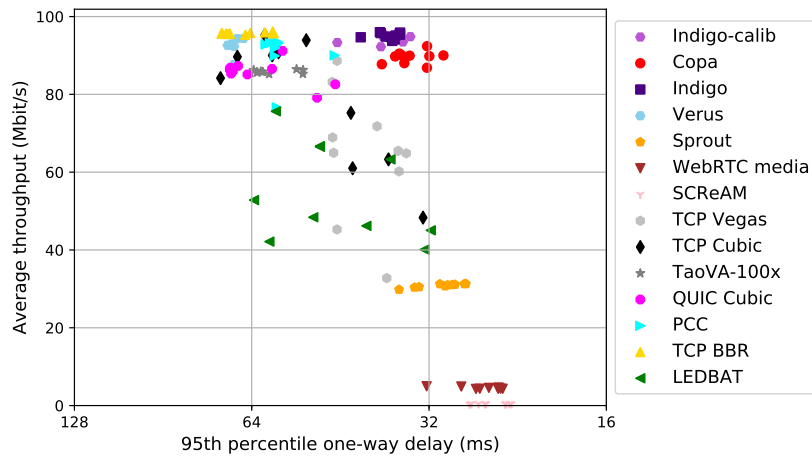
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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



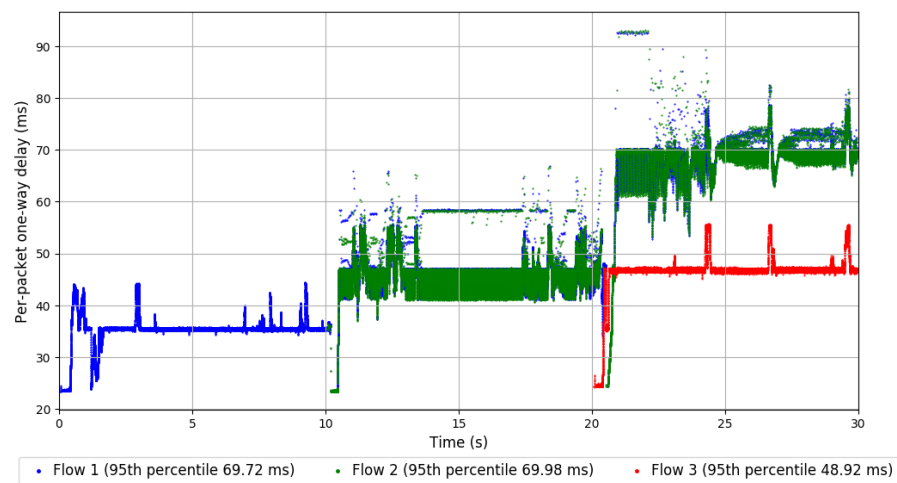
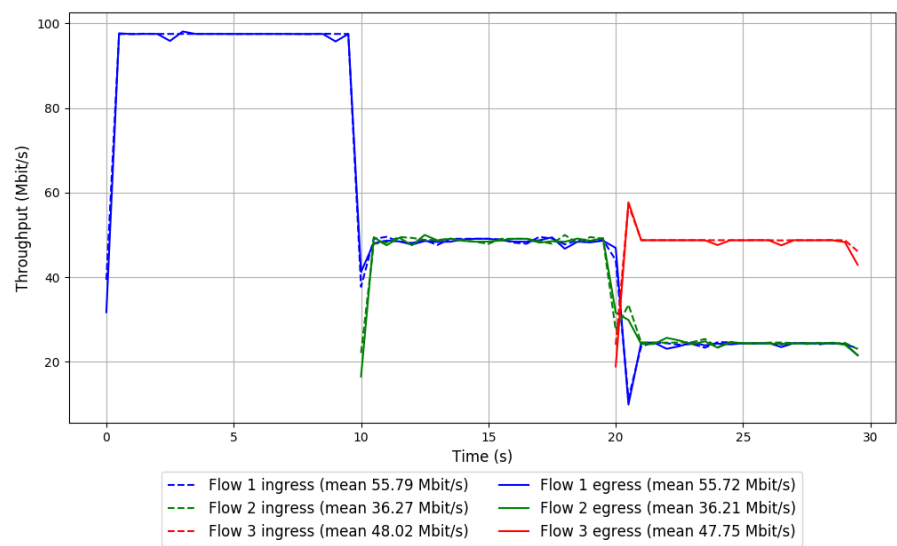
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	58.52	39.22	33.39	61.62	64.76	65.26	0.35	0.49	1.08
TCP Cubic	10	43.05	36.93	34.74	43.85	51.27	55.88	0.28	0.39	0.85
LEDBAT	10	31.28	26.10	18.23	43.21	50.01	42.15	0.31	0.37	0.86
PCC	10	57.35	37.31	25.87	56.72	54.06	60.53	0.32	0.55	0.97
QUIC Cubic	10	52.57	34.56	30.89	55.13	61.84	61.24	0.30	0.46	0.94
SCReAM	10	0.21	0.21	0.22	25.02	25.09	24.44	0.20	0.35	0.49
WebRTC media	10	2.39	1.52	0.61	25.84	26.00	26.73	0.30	0.40	0.95
Sprout	10	15.66	15.46	14.84	30.09	30.68	32.01	0.25	0.37	0.71
TaoVA-100x	10	52.18	39.89	28.28	52.08	56.80	60.60	0.34	0.49	1.28
TCP Vegas	10	32.48	30.87	34.90	37.92	38.02	47.41	0.30	0.33	0.51
Verus	10	56.80	39.99	29.05	60.91	61.54	65.02	0.33	0.53	0.86
Copa	10	57.15	37.88	28.37	33.50	35.40	39.16	0.24	0.37	0.86
Indigo	10	60.54	37.59	29.35	38.42	39.16	39.18	0.24	0.33	0.70
Indigo-calib	10	59.34	41.31	22.62	36.25	41.73	46.99	0.26	0.38	0.78

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 07:25:19
End at: 2017-11-16 07:25:49
Local clock offset: 0.474 ms
Remote clock offset: -0.481 ms

Below is generated by plot.py at 2017-11-16 13:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 69.734 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 55.72 Mbit/s
95th percentile per-packet one-way delay: 69.720 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 69.976 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 47.75 Mbit/s
95th percentile per-packet one-way delay: 48.921 ms
Loss rate: 1.11%

Run 1: Report of TCP BBR — Data Link

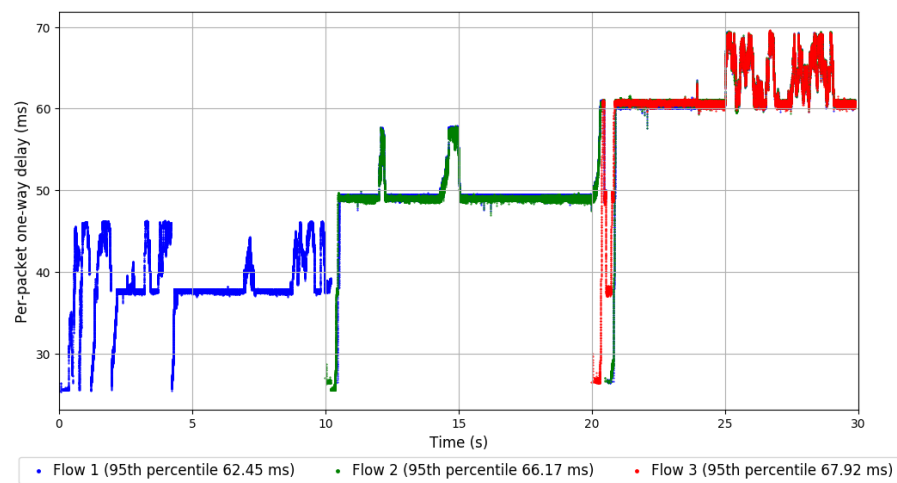
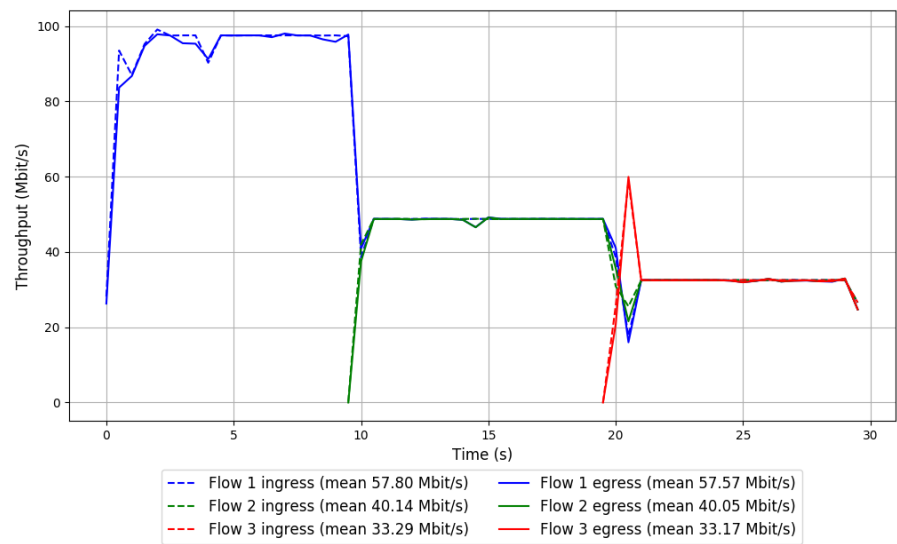


Run 2: Statistics of TCP BBR

Start at: 2017-11-16 07:44:37
End at: 2017-11-16 07:45:07
Local clock offset: 1.106 ms
Remote clock offset: -2.213 ms

Below is generated by plot.py at 2017-11-16 13:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 65.637 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 57.57 Mbit/s
95th percentile per-packet one-way delay: 62.451 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 66.174 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 33.17 Mbit/s
95th percentile per-packet one-way delay: 67.916 ms
Loss rate: 1.04%

Run 2: Report of TCP BBR — Data Link

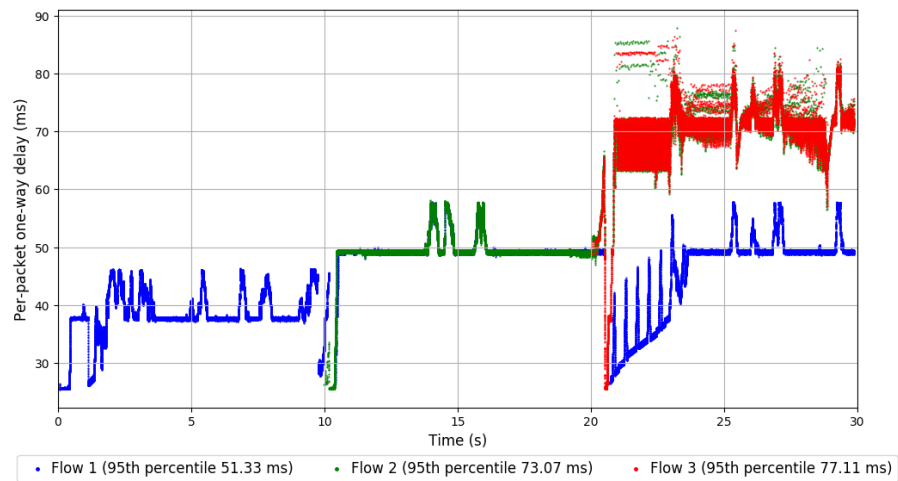
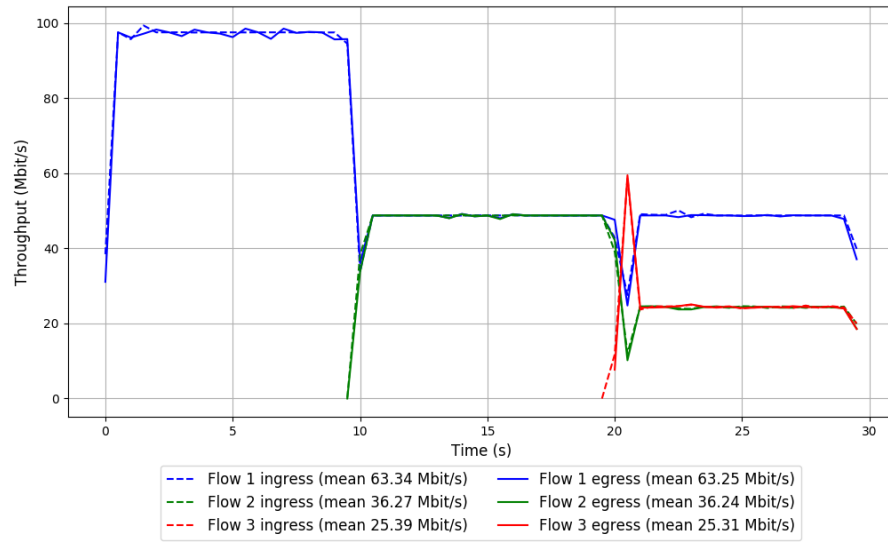


Run 3: Statistics of TCP BBR

Start at: 2017-11-16 08:04:00
End at: 2017-11-16 08:04:30
Local clock offset: 1.675 ms
Remote clock offset: -1.315 ms

Below is generated by plot.py at 2017-11-16 13:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 71.915 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 51.327 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 73.066 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 77.106 ms
Loss rate: 1.10%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 08:23:10

End at: 2017-11-16 08:23:40

Local clock offset: 2.14 ms

Remote clock offset: 1.45 ms

Below is generated by plot.py at 2017-11-16 13:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 58.964 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 58.35 Mbit/s

95th percentile per-packet one-way delay: 58.948 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 58.938 ms

Loss rate: 0.41%

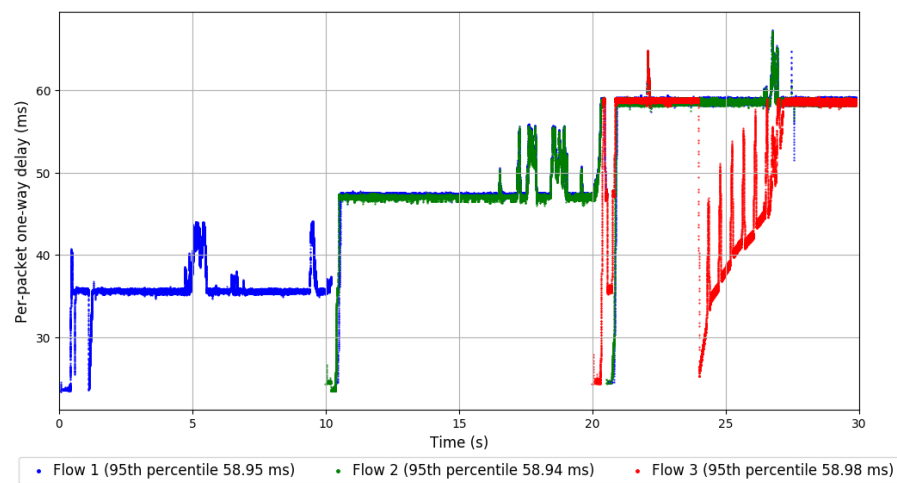
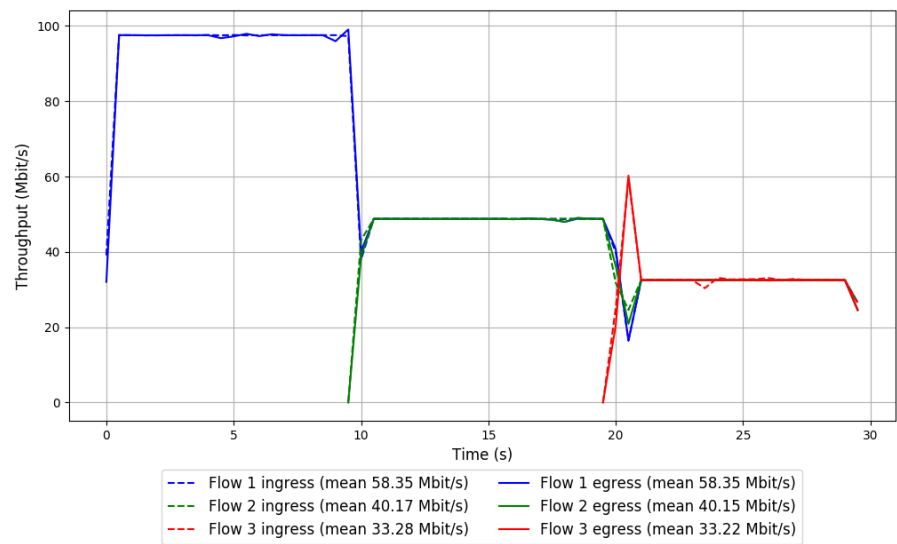
-- Flow 3:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 58.984 ms

Loss rate: 0.88%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-16 08:42:24

End at: 2017-11-16 08:42:54

Local clock offset: 2.634 ms

Remote clock offset: 1.792 ms

Below is generated by plot.py at 2017-11-16 13:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 70.248 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: 70.047 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 36.16 Mbit/s

95th percentile per-packet one-way delay: 71.275 ms

Loss rate: 0.47%

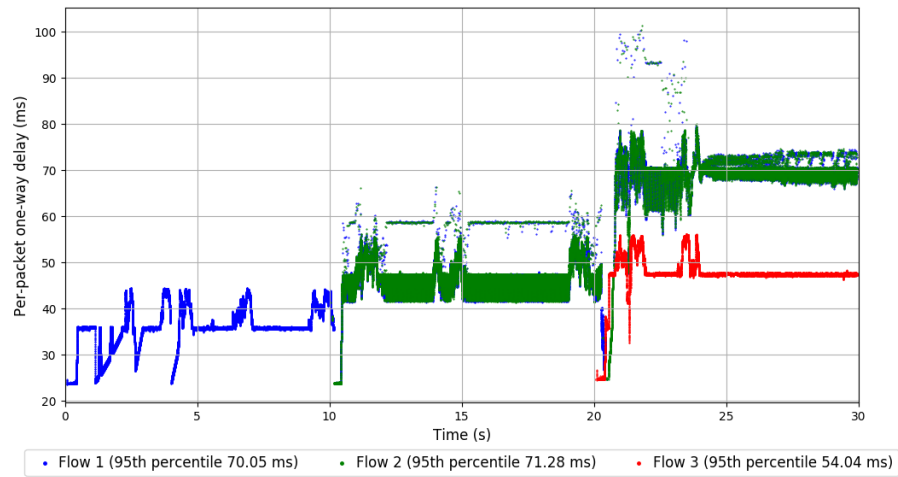
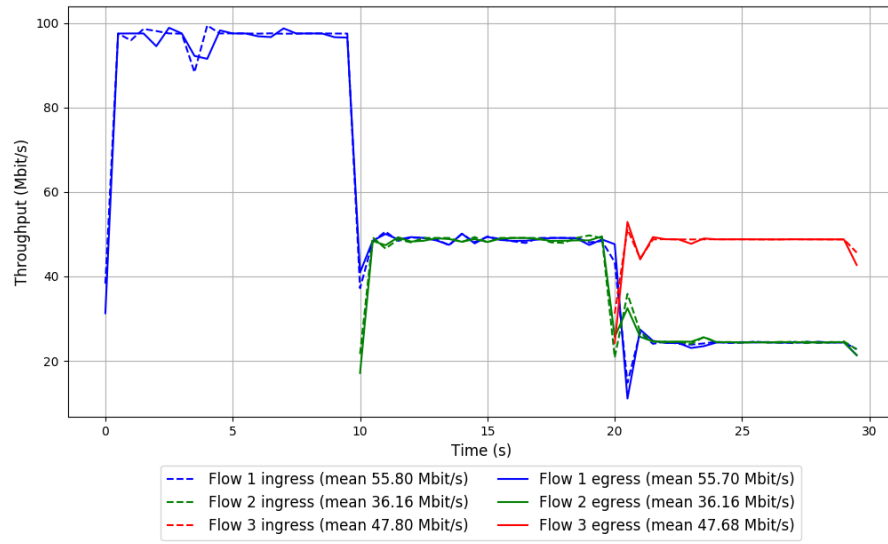
-- Flow 3:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 54.040 ms

Loss rate: 0.91%

Run 5: Report of TCP BBR — Data Link

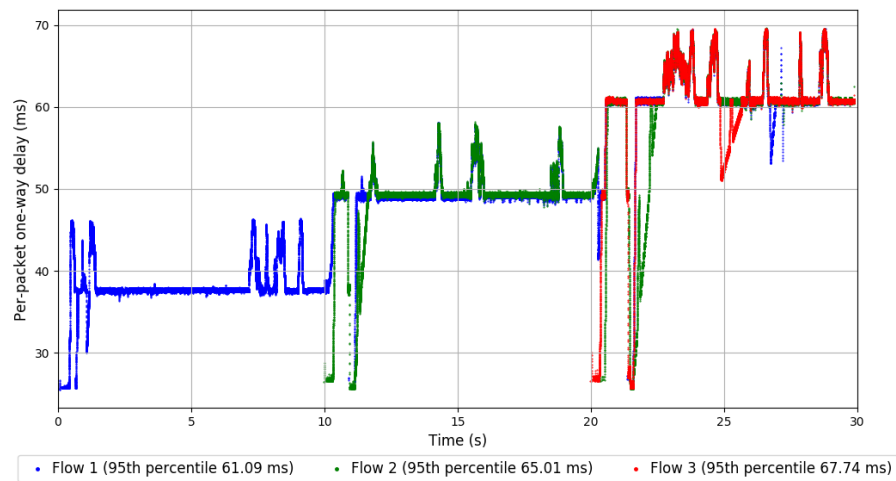
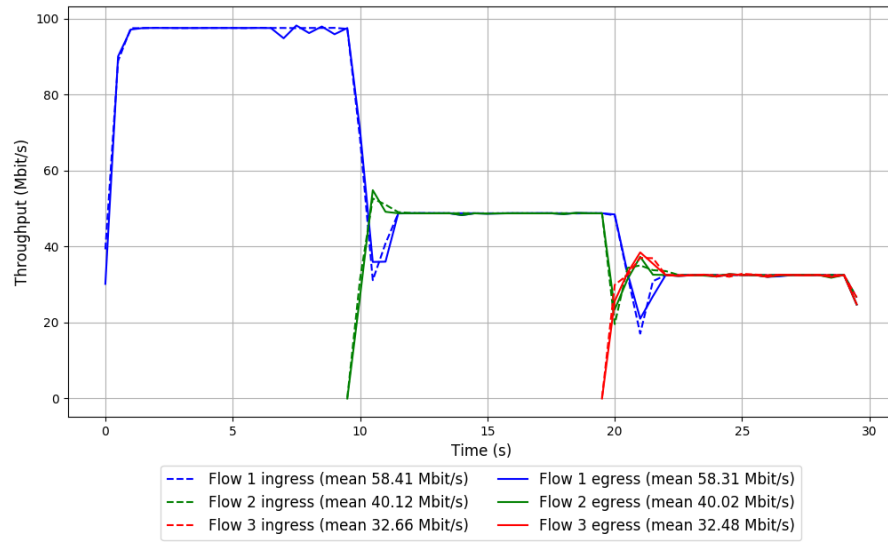


Run 6: Statistics of TCP BBR

Start at: 2017-11-16 09:01:45
End at: 2017-11-16 09:02:15
Local clock offset: 2.169 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2017-11-16 13:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 64.373 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 61.087 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 65.007 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 67.736 ms
Loss rate: 1.10%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 09:20:53

End at: 2017-11-16 09:21:23

Local clock offset: 1.94 ms

Remote clock offset: 1.667 ms

Below is generated by plot.py at 2017-11-16 13:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 58.737 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 58.17 Mbit/s

95th percentile per-packet one-way delay: 58.553 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 58.749 ms

Loss rate: 0.42%

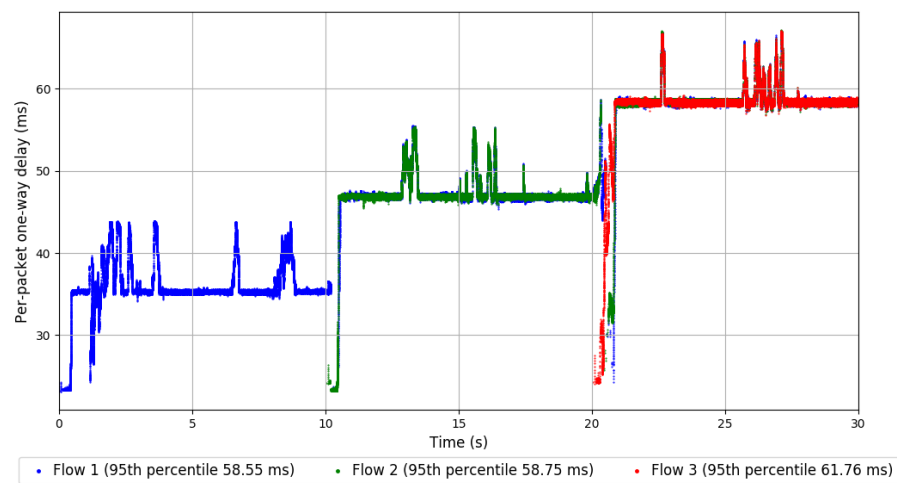
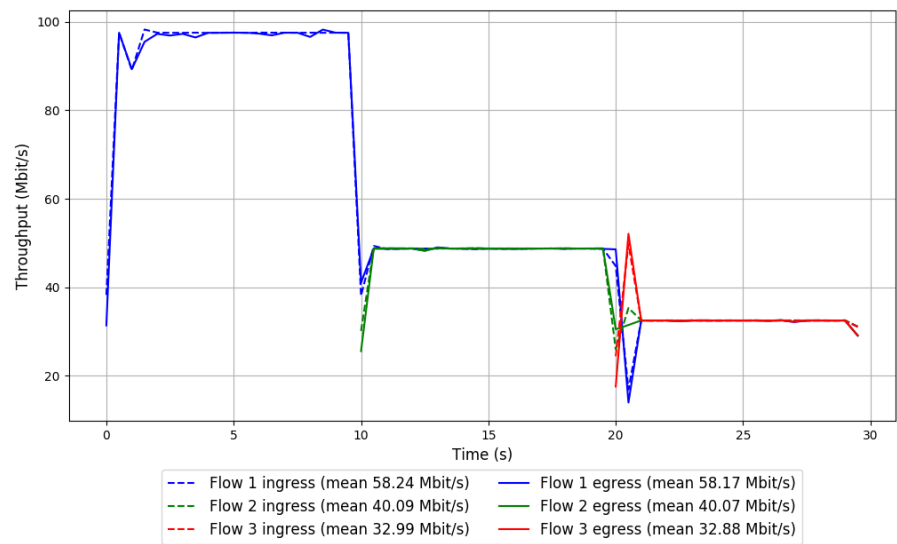
-- Flow 3:

Average throughput: 32.88 Mbit/s

95th percentile per-packet one-way delay: 61.761 ms

Loss rate: 1.05%

Run 7: Report of TCP BBR — Data Link

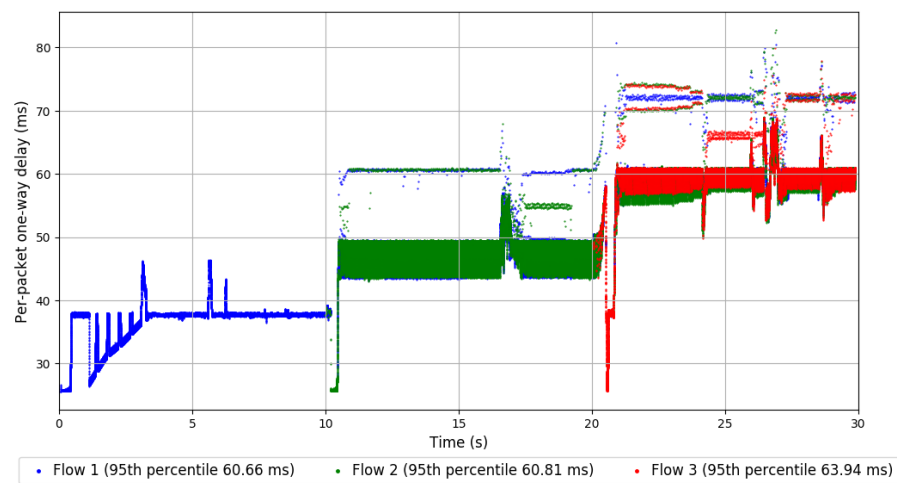
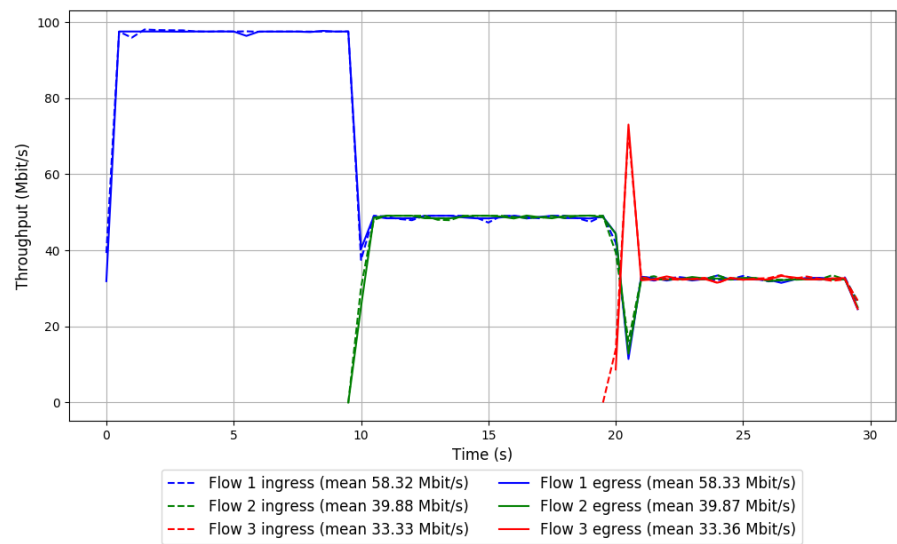


Run 8: Statistics of TCP BBR

Start at: 2017-11-16 09:39:59
End at: 2017-11-16 09:40:29
Local clock offset: 1.661 ms
Remote clock offset: -1.022 ms

Below is generated by plot.py at 2017-11-16 13:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 60.775 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 60.659 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 60.814 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 33.36 Mbit/s
95th percentile per-packet one-way delay: 63.937 ms
Loss rate: 0.96%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 09:59:06

End at: 2017-11-16 09:59:36

Local clock offset: 1.513 ms

Remote clock offset: 1.281 ms

Below is generated by plot.py at 2017-11-16 13:48:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 70.753 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 51.723 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 74.007 ms

Loss rate: 0.53%

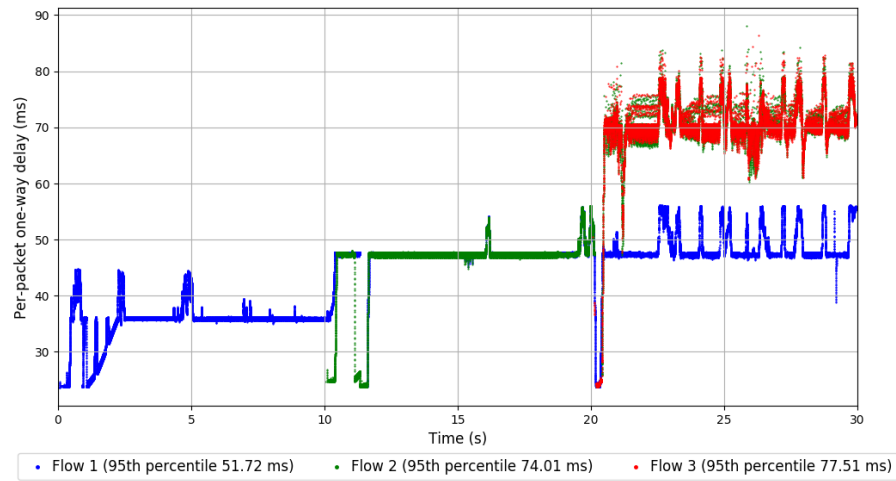
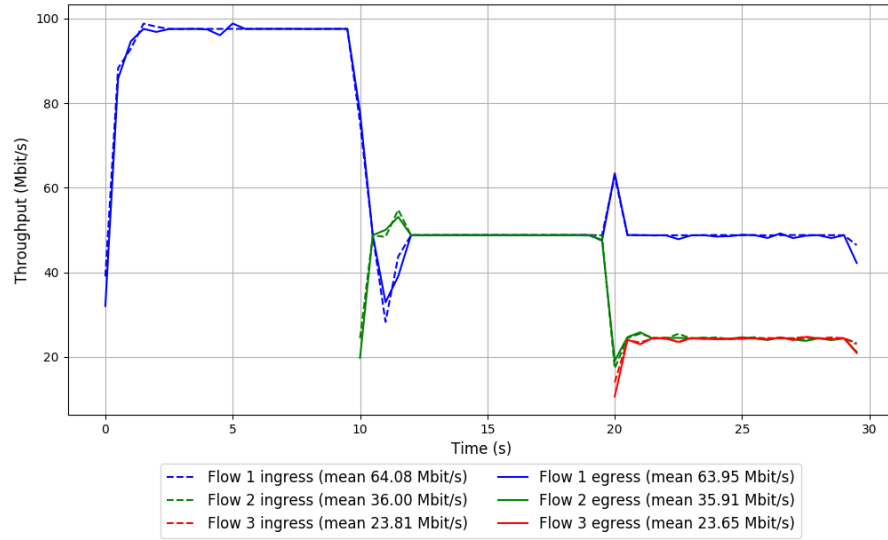
-- Flow 3:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 77.509 ms

Loss rate: 1.46%

Run 9: Report of TCP BBR — Data Link

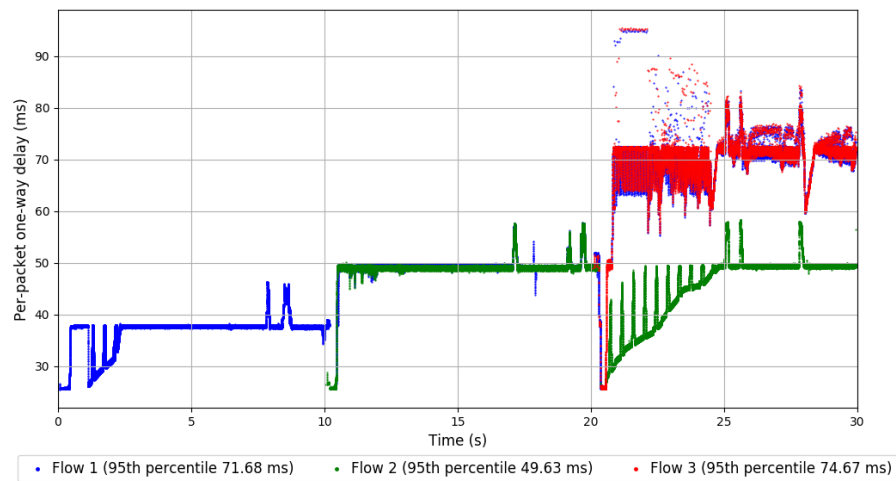
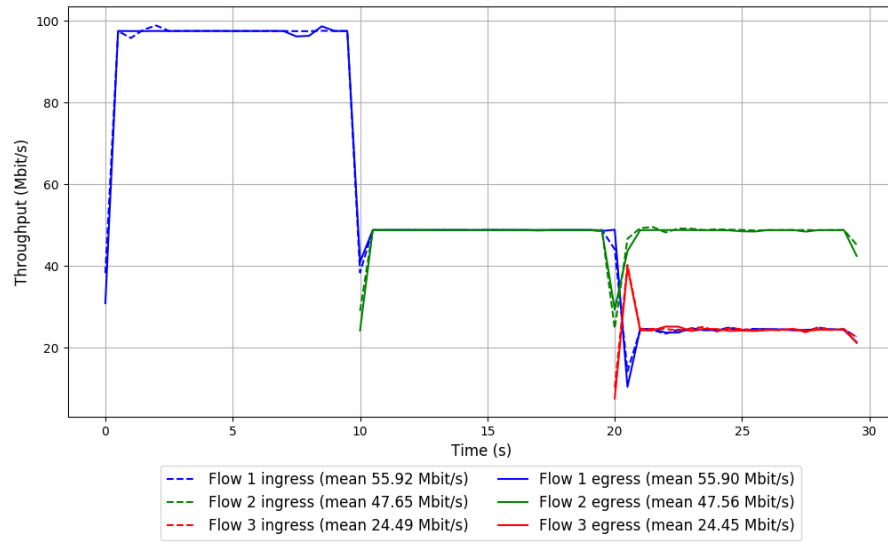


Run 10: Statistics of TCP BBR

Start at: 2017-11-16 10:18:14
End at: 2017-11-16 10:18:44
Local clock offset: 1.046 ms
Remote clock offset: -0.667 ms

Below is generated by plot.py at 2017-11-16 13:49:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 71.954 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 71.679 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 47.56 Mbit/s
95th percentile per-packet one-way delay: 49.630 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 74.673 ms
Loss rate: 1.18%

Run 10: Report of TCP BBR — Data Link

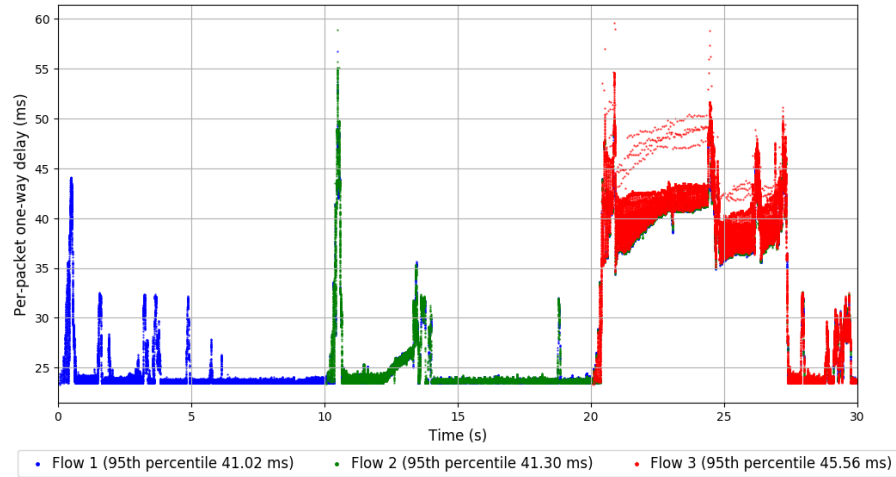
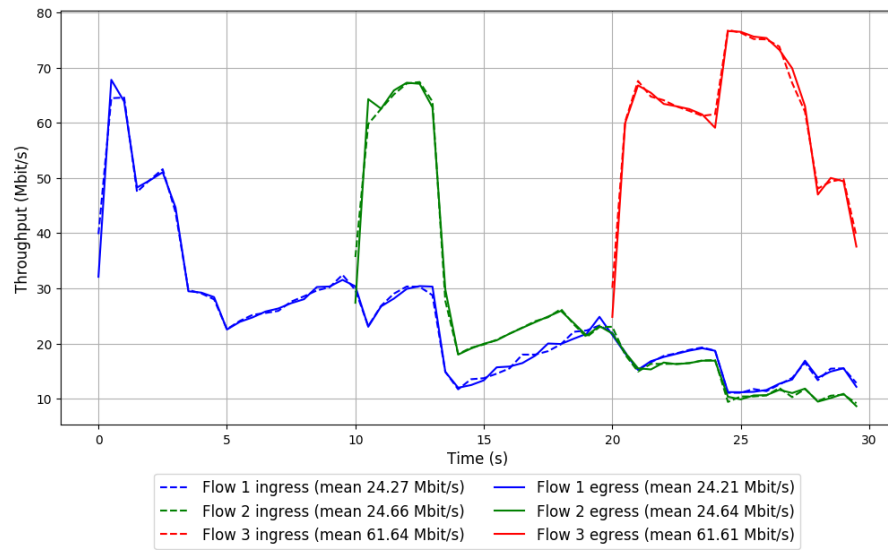


Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 07:21:15
End at: 2017-11-16 07:21:45
Local clock offset: 0.557 ms
Remote clock offset: -0.472 ms

Below is generated by plot.py at 2017-11-16 13:49:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 43.139 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 41.022 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 41.296 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 61.61 Mbit/s
95th percentile per-packet one-way delay: 45.556 ms
Loss rate: 0.58%

Run 1: Report of TCP Cubic — Data Link

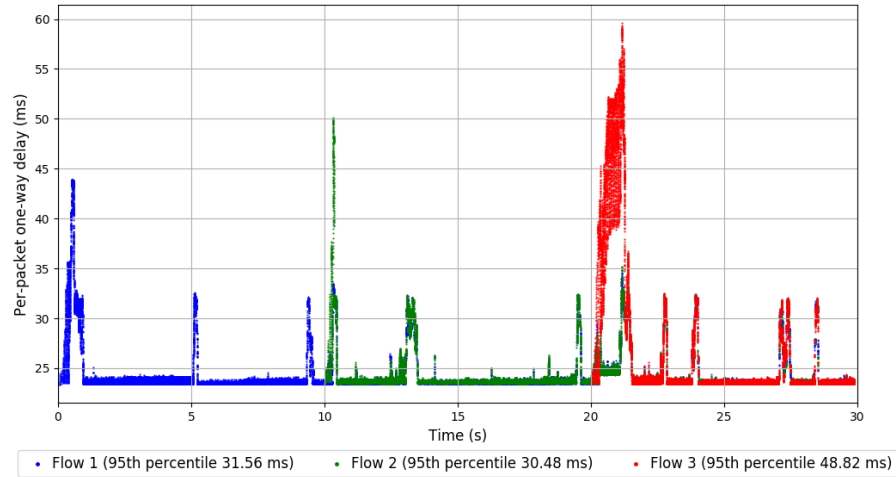
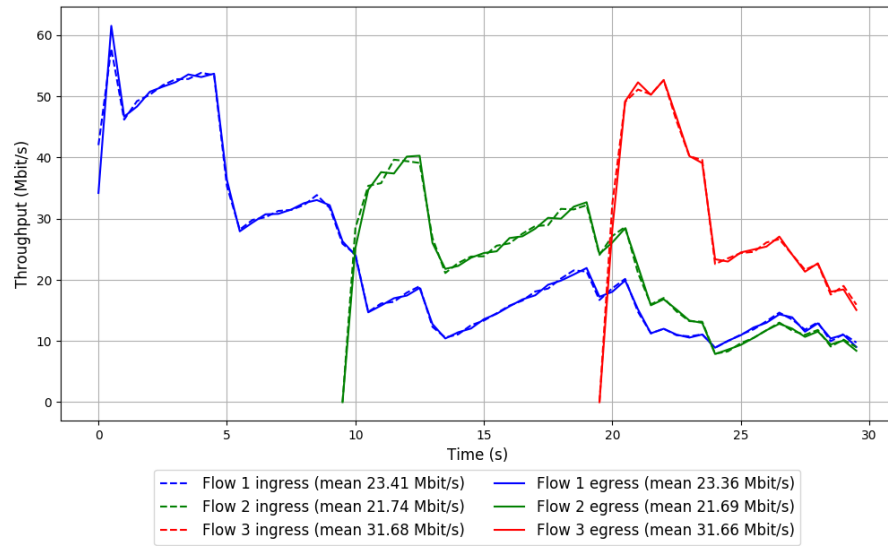


Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 07:40:39
End at: 2017-11-16 07:41:09
Local clock offset: 0.992 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2017-11-16 13:49:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.32 Mbit/s
95th percentile per-packet one-way delay: 32.757 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 23.36 Mbit/s
95th percentile per-packet one-way delay: 31.558 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 30.476 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 48.817 ms
Loss rate: 0.57%

Run 2: Report of TCP Cubic — Data Link

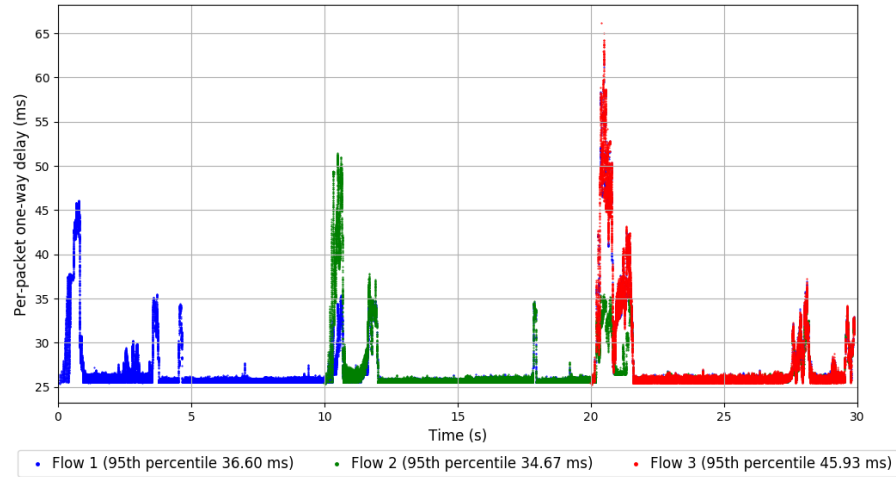
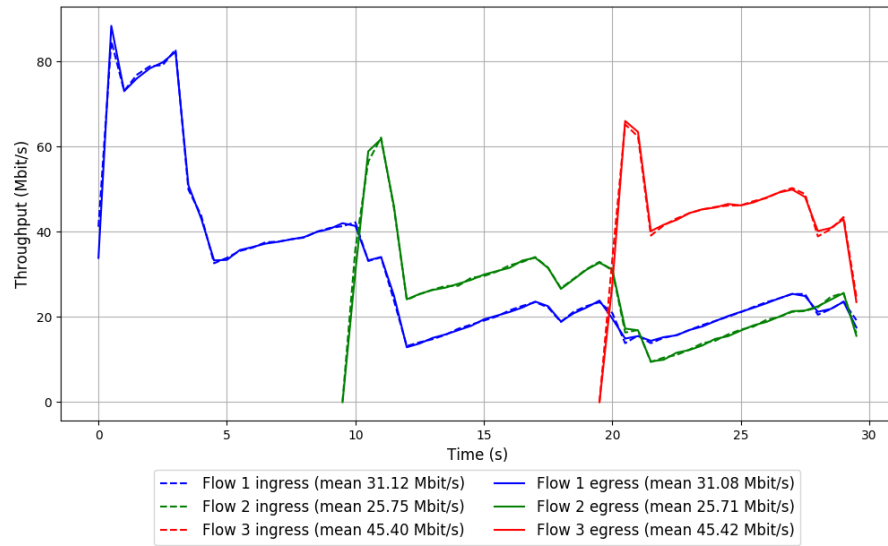


Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 07:59:55
End at: 2017-11-16 08:00:25
Local clock offset: 1.489 ms
Remote clock offset: -1.513 ms

Below is generated by plot.py at 2017-11-16 13:49:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.28 Mbit/s
95th percentile per-packet one-way delay: 37.494 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 36.599 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 25.71 Mbit/s
95th percentile per-packet one-way delay: 34.670 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 45.927 ms
Loss rate: 0.50%

Run 3: Report of TCP Cubic — Data Link

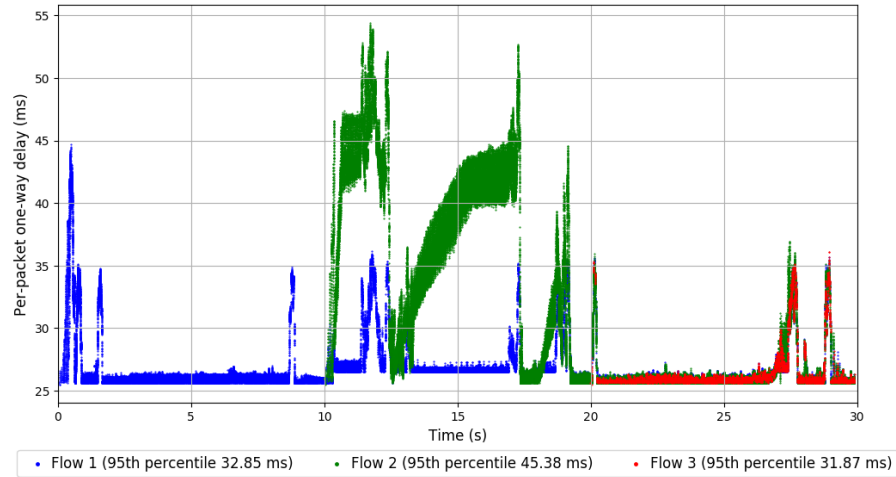
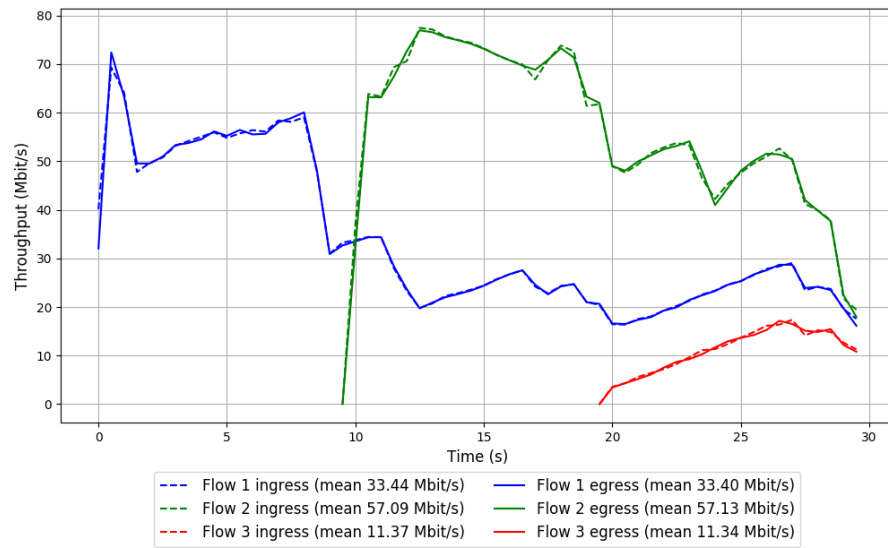


Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 08:19:10
End at: 2017-11-16 08:19:40
Local clock offset: 2.01 ms
Remote clock offset: -0.775 ms

Below is generated by plot.py at 2017-11-16 13:49:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.24 Mbit/s
95th percentile per-packet one-way delay: 43.430 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 33.40 Mbit/s
95th percentile per-packet one-way delay: 32.846 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 45.384 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 31.869 ms
Loss rate: 0.77%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 08:38:21

End at: 2017-11-16 08:38:51

Local clock offset: 2.688 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2017-11-16 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 72.301 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 52.12 Mbit/s

95th percentile per-packet one-way delay: 49.547 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 72.394 ms

Loss rate: 0.83%

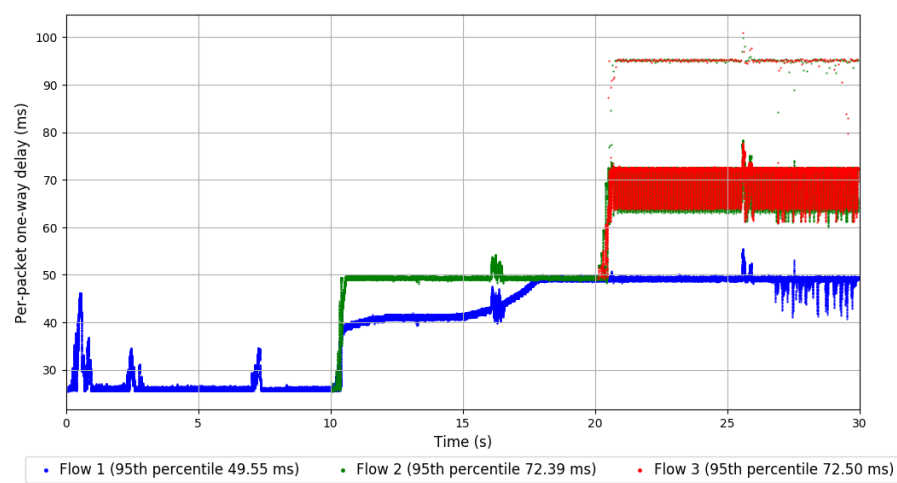
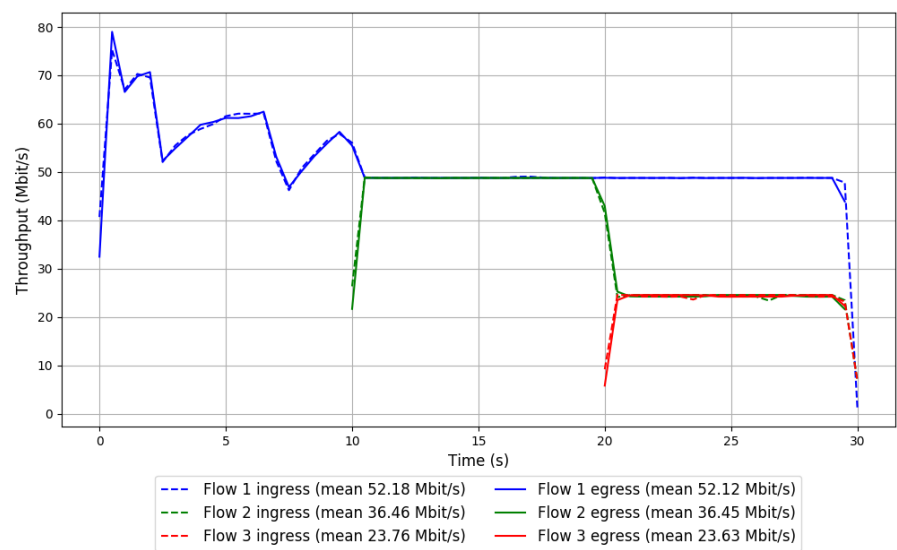
-- Flow 3:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 72.501 ms

Loss rate: 2.38%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 08:57:44

End at: 2017-11-16 08:58:14

Local clock offset: 2.325 ms

Remote clock offset: 1.94 ms

Below is generated by plot.py at 2017-11-16 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.03 Mbit/s

95th percentile per-packet one-way delay: 59.062 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 43.49 Mbit/s

95th percentile per-packet one-way delay: 54.458 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 48.98 Mbit/s

95th percentile per-packet one-way delay: 47.522 ms

Loss rate: 0.22%

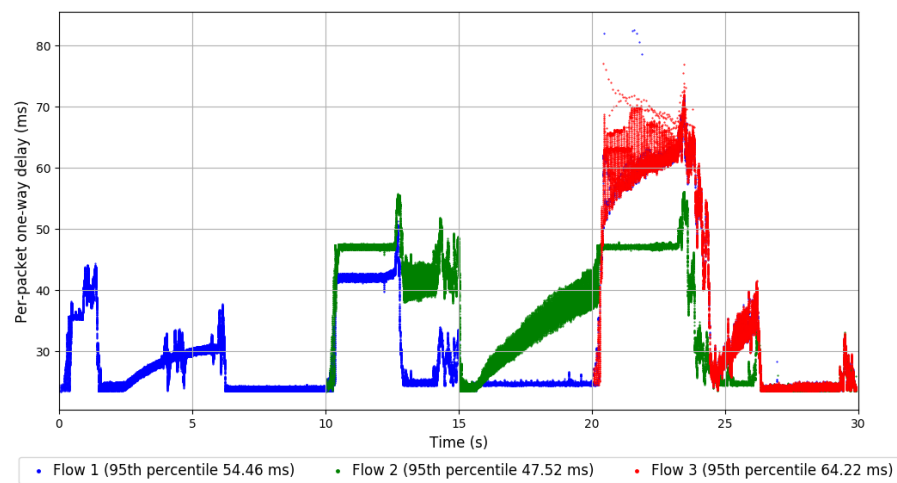
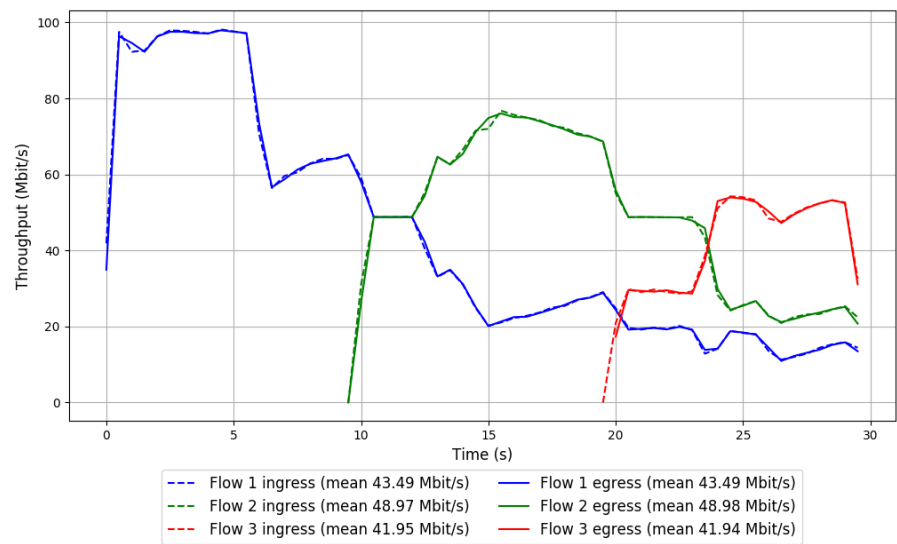
-- Flow 3:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 64.218 ms

Loss rate: 0.57%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

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

End at: 2017-11-16 09:17:21

Local clock offset: 1.996 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2017-11-16 13:49:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 57.637 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 37.852 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 58.295 ms

Loss rate: 0.27%

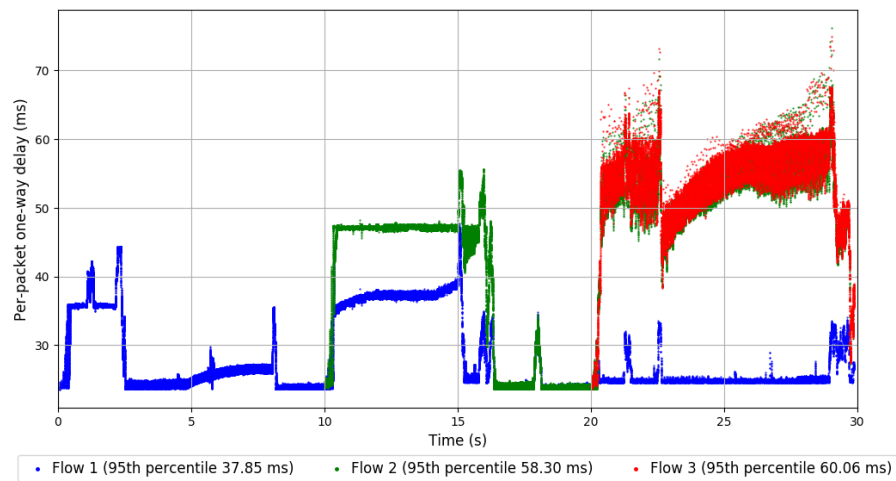
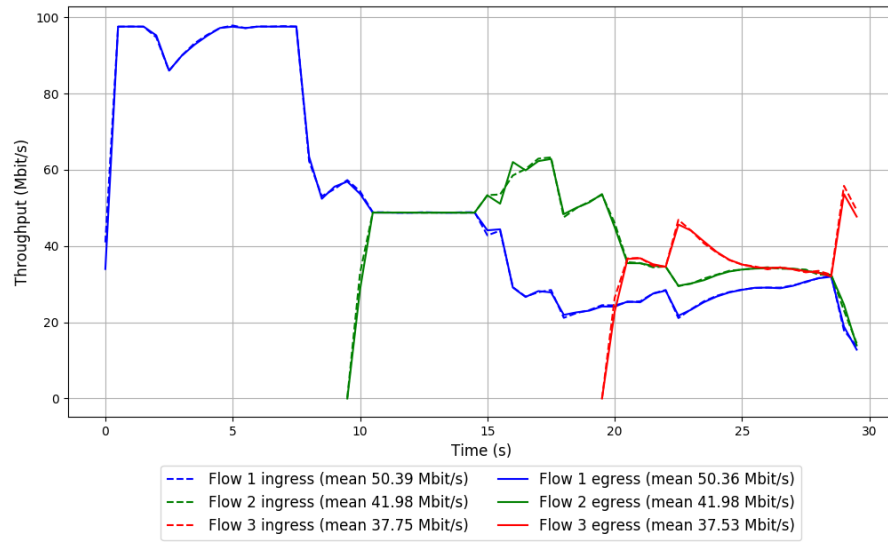
-- Flow 3:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 60.062 ms

Loss rate: 1.10%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 09:35:59

End at: 2017-11-16 09:36:29

Local clock offset: 1.709 ms

Remote clock offset: 1.142 ms

Below is generated by plot.py at 2017-11-16 13:49:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 51.713 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 55.12 Mbit/s

95th percentile per-packet one-way delay: 47.224 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 52.302 ms

Loss rate: 0.42%

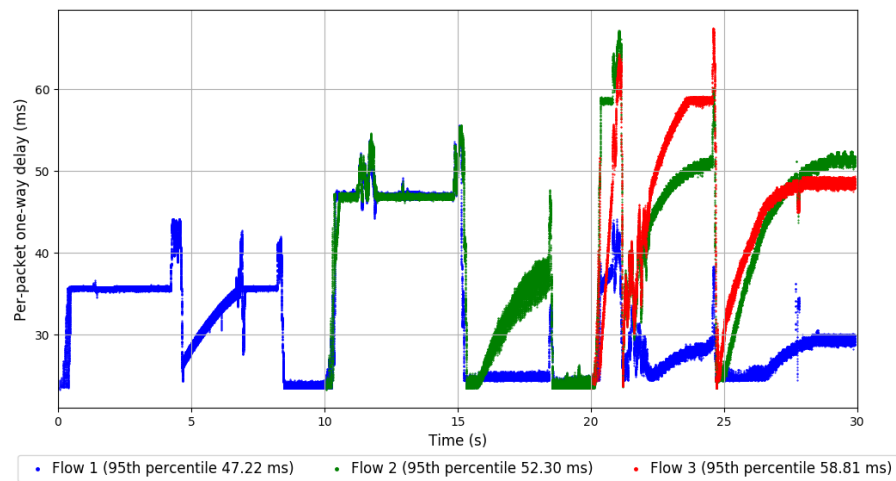
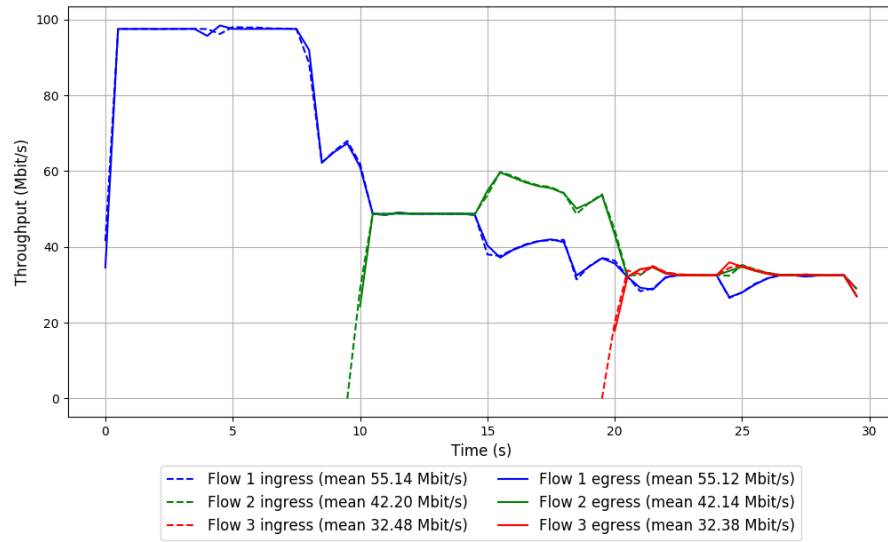
-- Flow 3:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 58.812 ms

Loss rate: 0.81%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 09:55:05

End at: 2017-11-16 09:55:35

Local clock offset: 1.577 ms

Remote clock offset: 1.628 ms

Below is generated by plot.py at 2017-11-16 13:49:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 67.689 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 46.706 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 69.383 ms

Loss rate: 0.49%

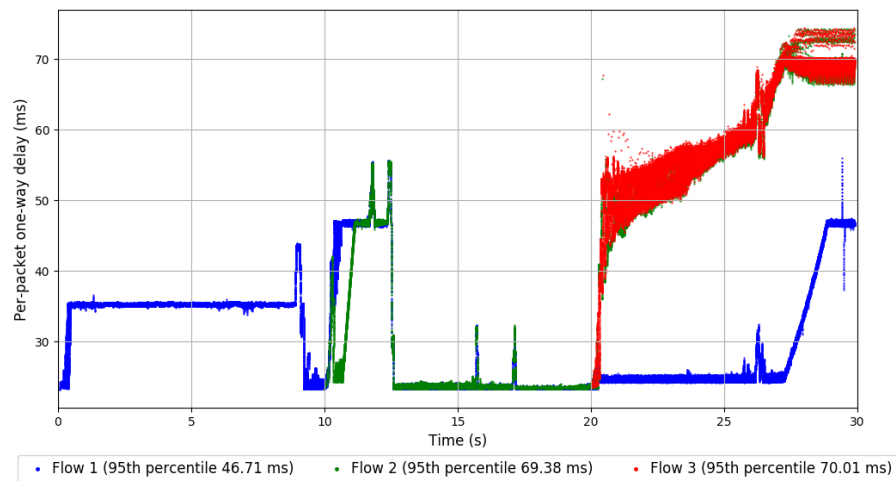
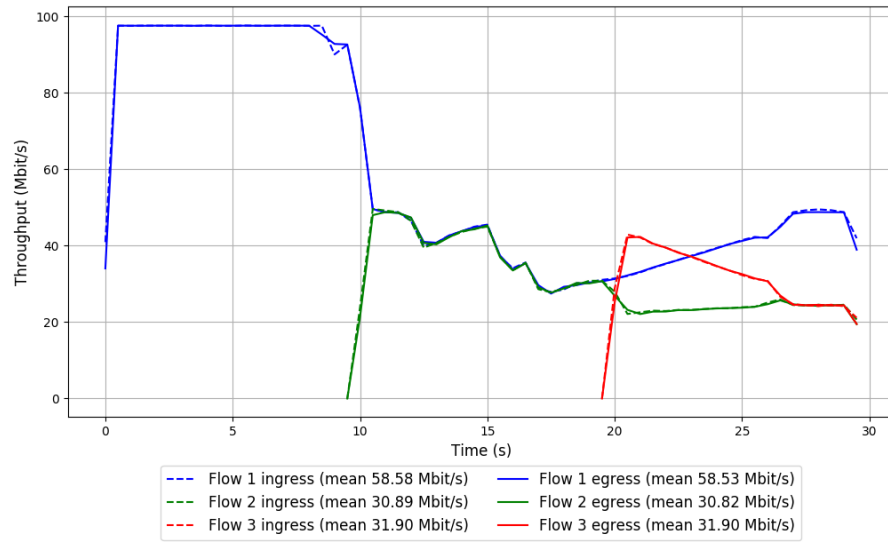
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 70.014 ms

Loss rate: 0.75%

Run 9: Report of TCP Cubic — Data Link

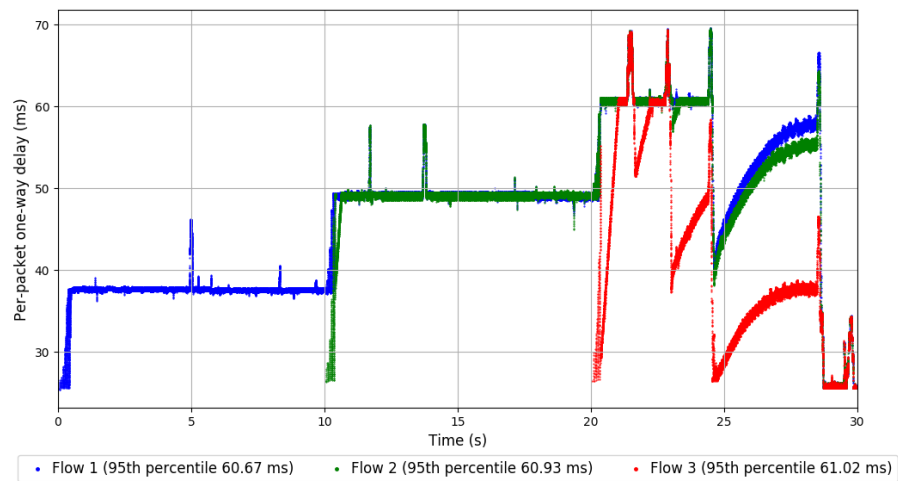
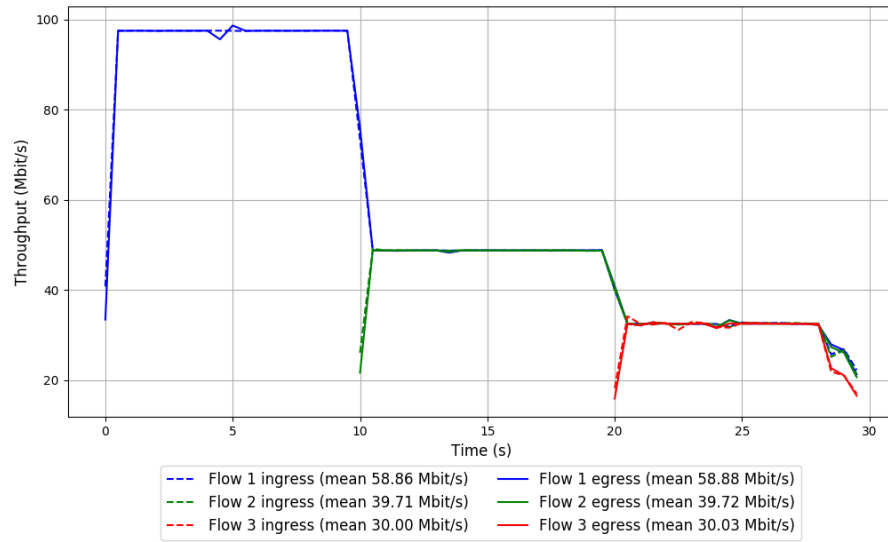


Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 10:14:13
End at: 2017-11-16 10:14:43
Local clock offset: 1.106 ms
Remote clock offset: -0.441 ms

Below is generated by plot.py at 2017-11-16 13:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 60.811 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.88 Mbit/s
95th percentile per-packet one-way delay: 60.672 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 39.72 Mbit/s
95th percentile per-packet one-way delay: 60.928 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 61.018 ms
Loss rate: 0.50%

Run 10: Report of TCP Cubic — Data Link

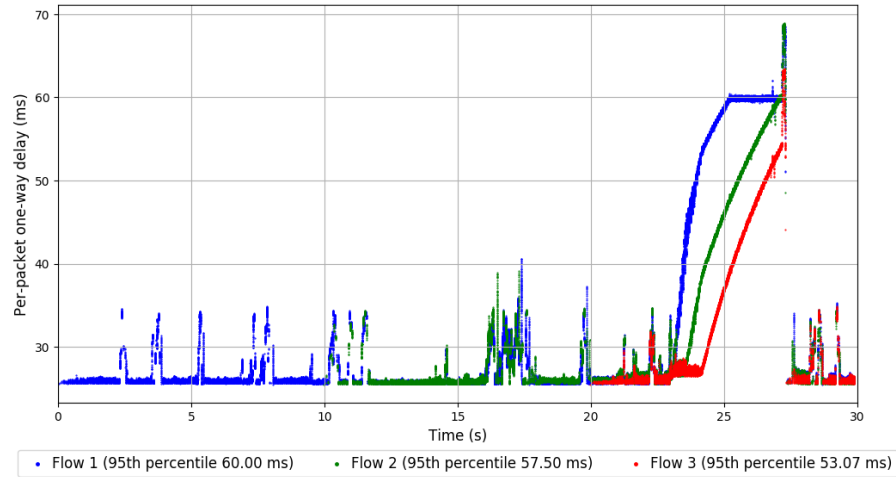
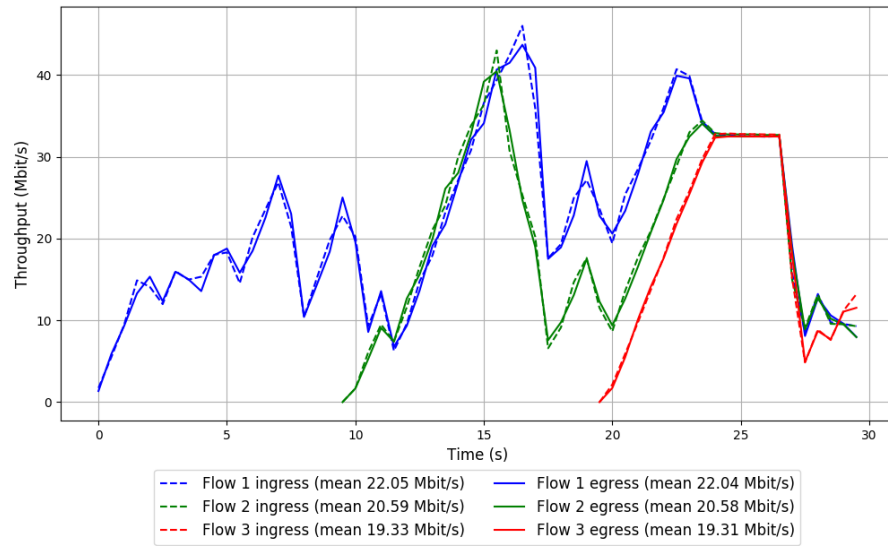


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 07:35:03
End at: 2017-11-16 07:35:33
Local clock offset: 0.788 ms
Remote clock offset: -2.558 ms

# Below is generated by plot.py at 2017-11-16 13:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.15 Mbit/s
95th percentile per-packet one-way delay: 59.737 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 22.04 Mbit/s
95th percentile per-packet one-way delay: 60.000 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 57.501 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 19.31 Mbit/s
95th percentile per-packet one-way delay: 53.073 ms
Loss rate: 0.64%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-16 07:54:27

End at: 2017-11-16 07:54:57

Local clock offset: 1.338 ms

Remote clock offset: -1.72 ms

Below is generated by plot.py at 2017-11-16 13:50:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 32.579 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 32.612 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 32.307 ms

Loss rate: 0.28%

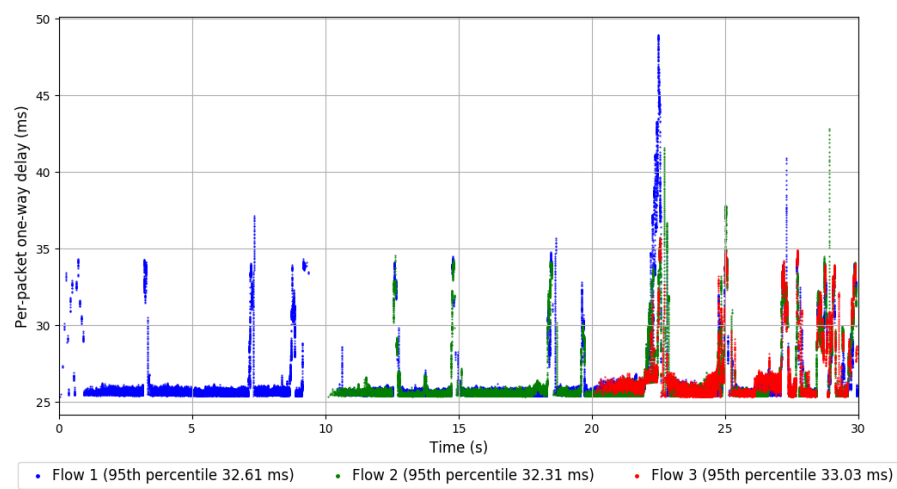
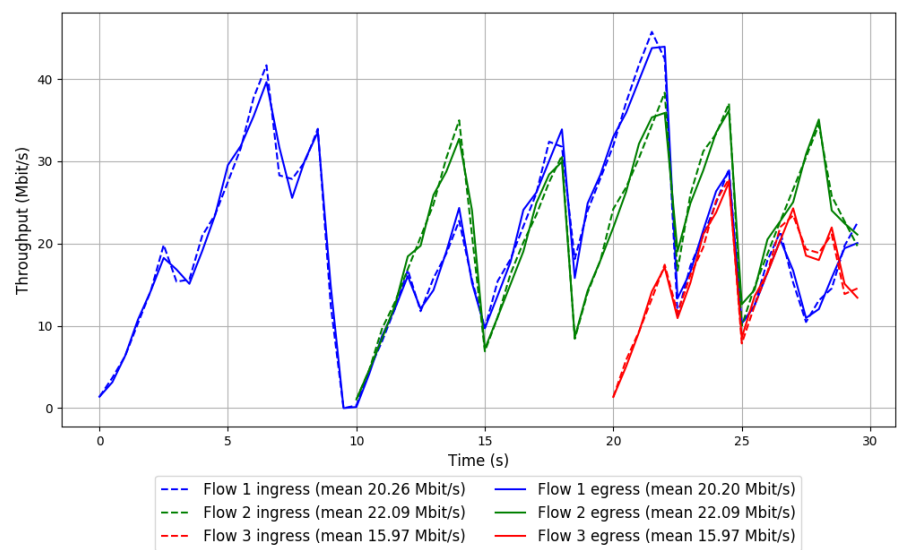
-- Flow 3:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 33.033 ms

Loss rate: 0.56%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-16 08:13:41

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

Local clock offset: 1.864 ms

Remote clock offset: 1.104 ms

Below is generated by plot.py at 2017-11-16 13:50:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 50.317 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 37.524 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 56.933 ms

Loss rate: 0.25%

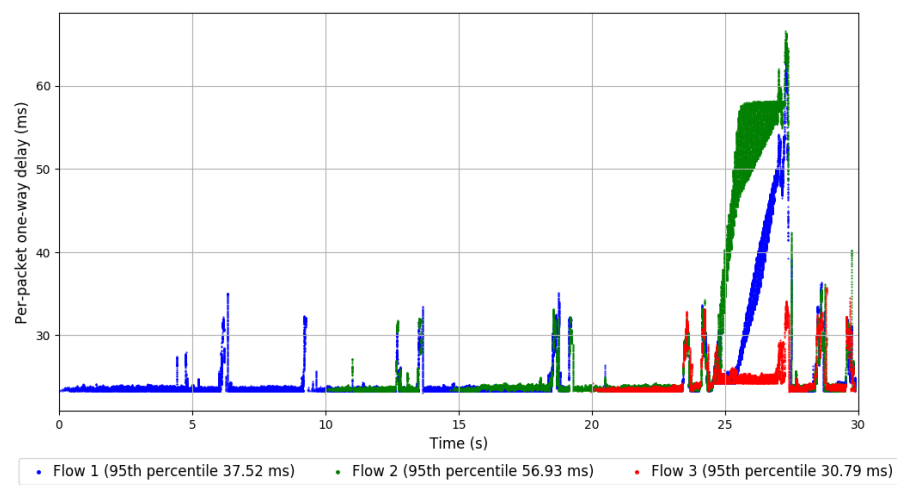
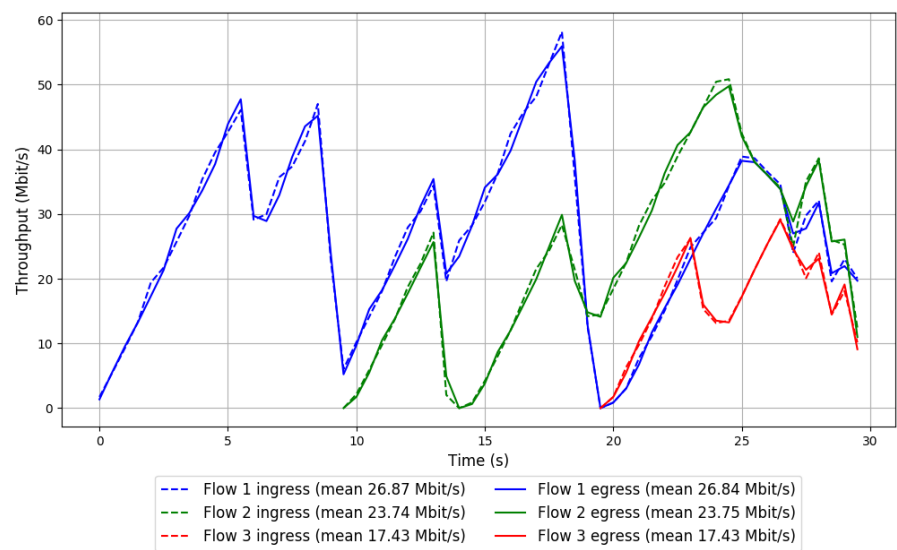
-- Flow 3:

Average throughput: 17.43 Mbit/s

95th percentile per-packet one-way delay: 30.787 ms

Loss rate: 0.53%

Run 3: Report of LEDBAT — Data Link

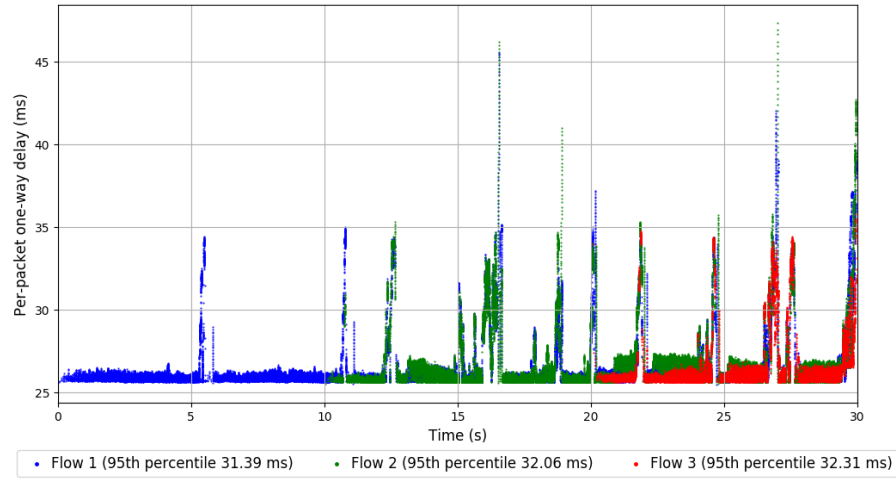
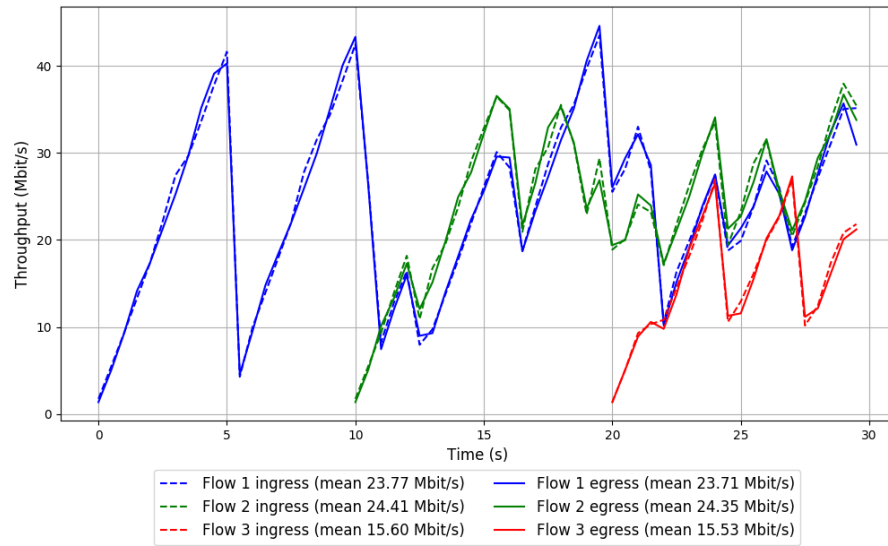


Run 4: Statistics of LEDBAT

Start at: 2017-11-16 08:32:53
End at: 2017-11-16 08:33:23
Local clock offset: 2.462 ms
Remote clock offset: -0.489 ms

Below is generated by plot.py at 2017-11-16 13:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 31.784 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 23.71 Mbit/s
95th percentile per-packet one-way delay: 31.389 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 32.056 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 32.312 ms
Loss rate: 1.08%

Run 4: Report of LEDBAT — Data Link

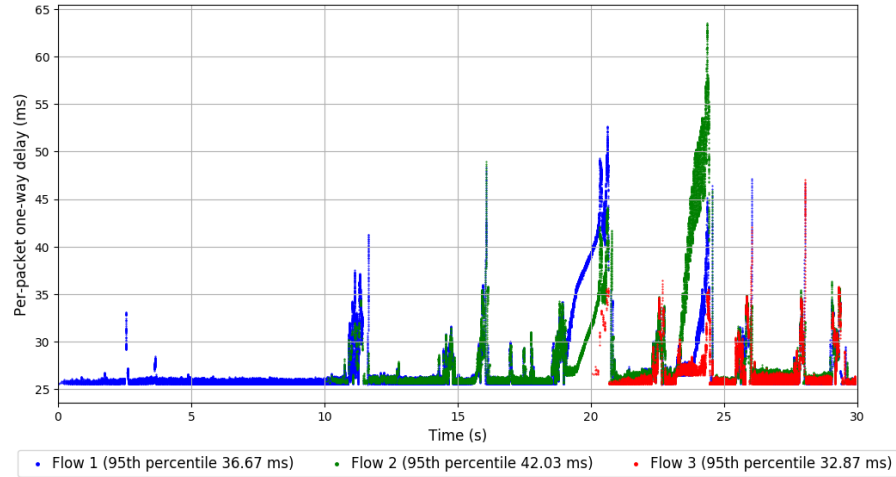
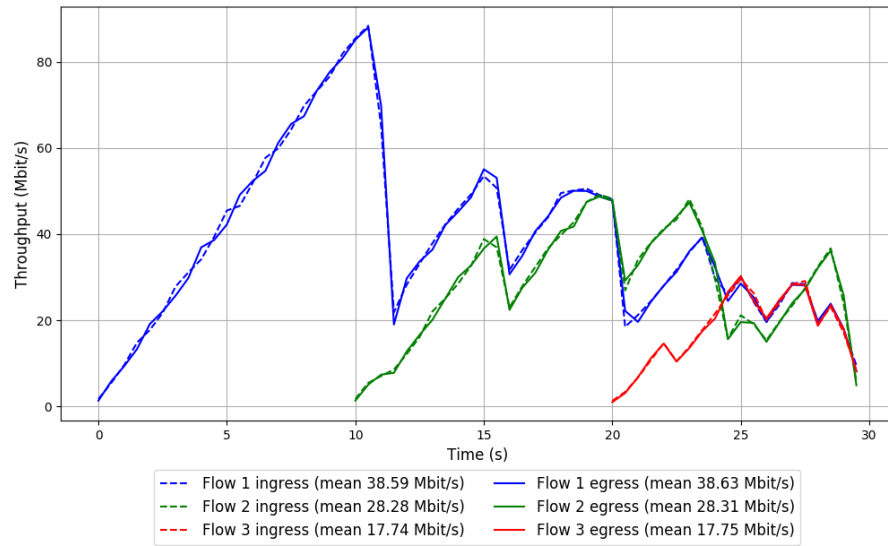


Run 5: Statistics of LEDBAT

Start at: 2017-11-16 08:52:09
End at: 2017-11-16 08:52:39
Local clock offset: 2.356 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2017-11-16 13:50:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.29 Mbit/s
95th percentile per-packet one-way delay: 37.210 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 36.669 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 28.31 Mbit/s
95th percentile per-packet one-way delay: 42.028 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 17.75 Mbit/s
95th percentile per-packet one-way delay: 32.872 ms
Loss rate: 0.51%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

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

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

Local clock offset: 1.962 ms

Remote clock offset: 2.028 ms

Below is generated by plot.py at 2017-11-16 13:50:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.20 Mbit/s

95th percentile per-packet one-way delay: 40.884 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 22.40 Mbit/s

95th percentile per-packet one-way delay: 41.413 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 44.196 ms

Loss rate: 0.54%

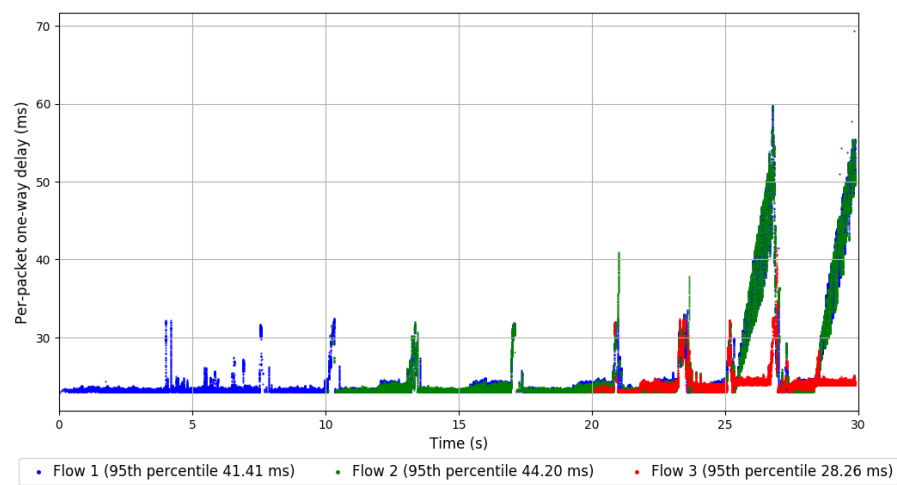
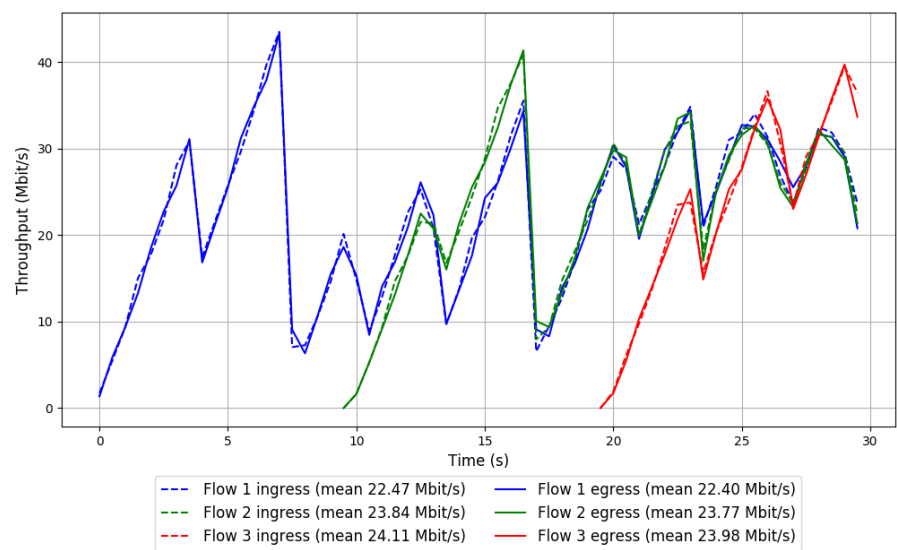
-- Flow 3:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 28.256 ms

Loss rate: 1.04%

Run 6: Report of LEDBAT — Data Link

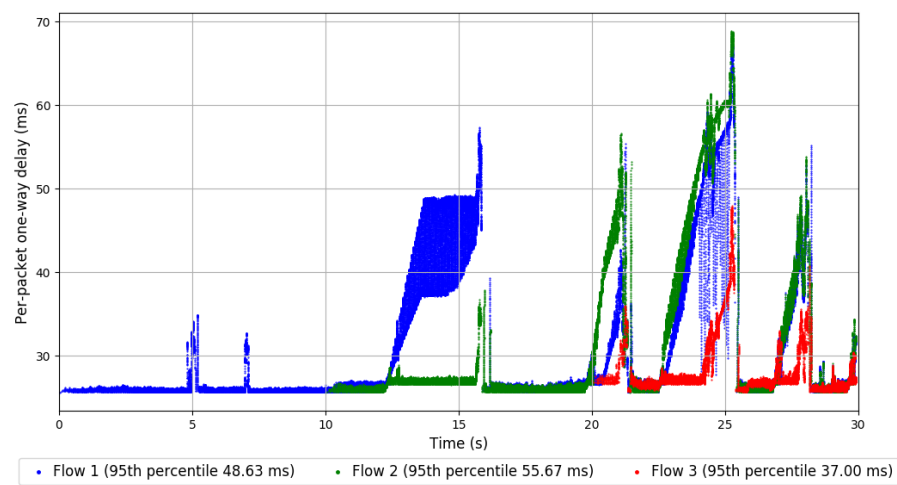
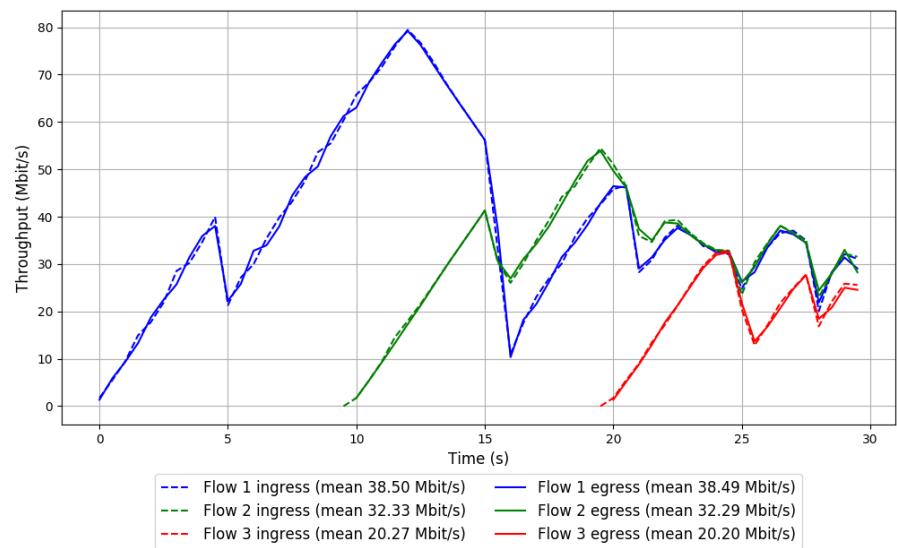


Run 7: Statistics of LEDBAT

Start at: 2017-11-16 09:30:31
End at: 2017-11-16 09:31:01
Local clock offset: 1.879 ms
Remote clock offset: -0.949 ms

Below is generated by plot.py at 2017-11-16 13:50:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.69 Mbit/s
95th percentile per-packet one-way delay: 49.042 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 48.630 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 55.674 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 20.20 Mbit/s
95th percentile per-packet one-way delay: 37.001 ms
Loss rate: 0.89%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 09:49:39

End at: 2017-11-16 09:50:09

Local clock offset: 1.628 ms

Remote clock offset: 1.651 ms

Below is generated by plot.py at 2017-11-16 13:50:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 63.428 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 28.48 Mbit/s

95th percentile per-packet one-way delay: 46.116 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 67.015 ms

Loss rate: 0.51%

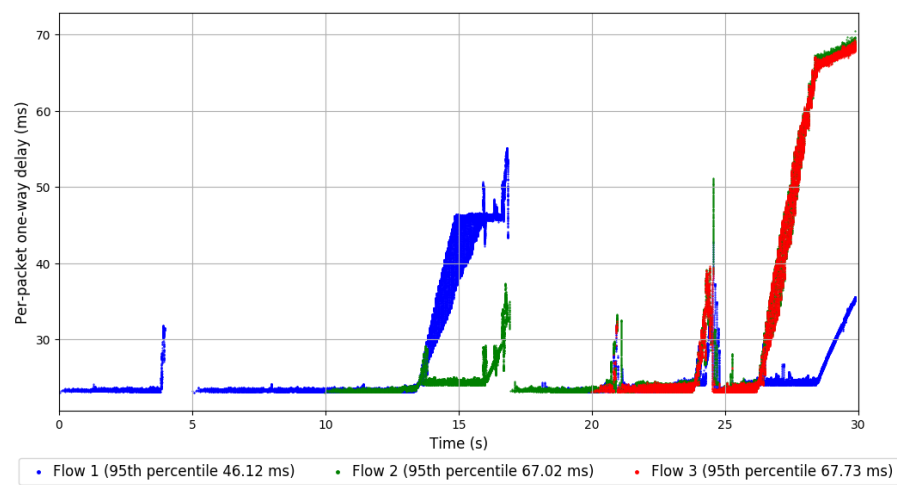
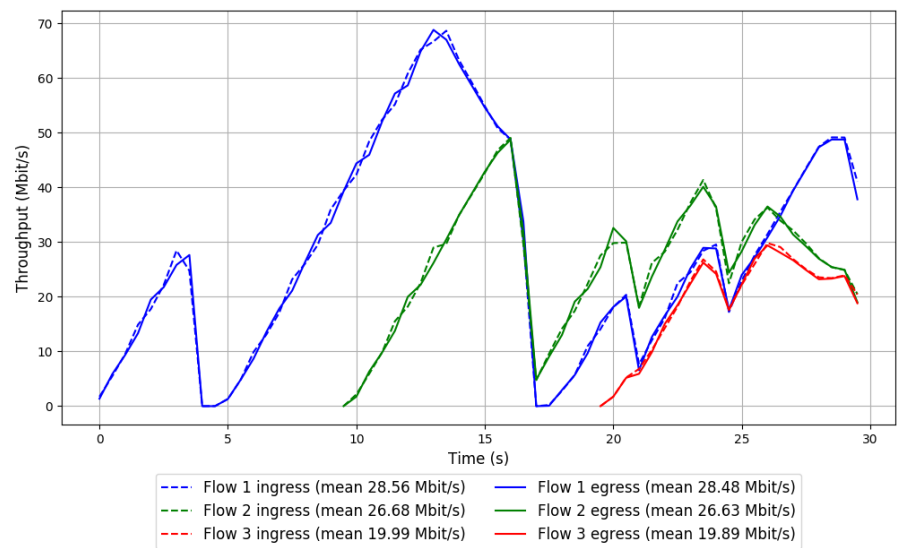
-- Flow 3:

Average throughput: 19.89 Mbit/s

95th percentile per-packet one-way delay: 67.733 ms

Loss rate: 1.24%

Run 8: Report of LEDBAT — Data Link

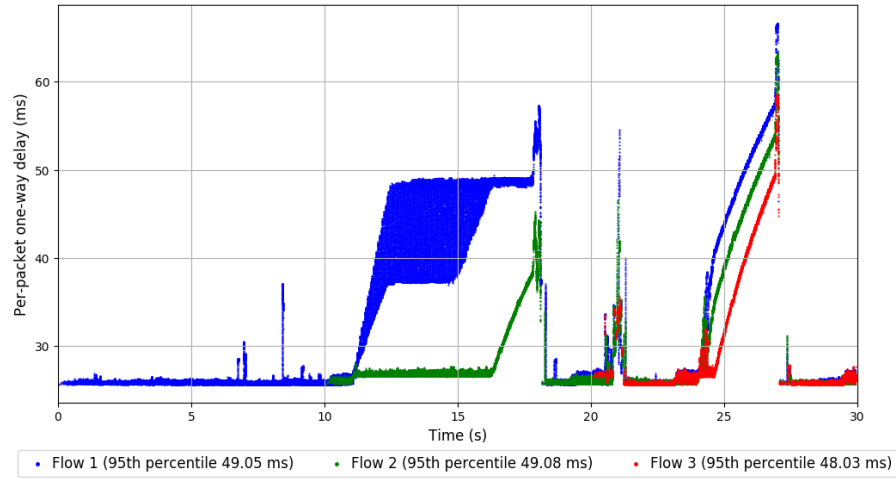
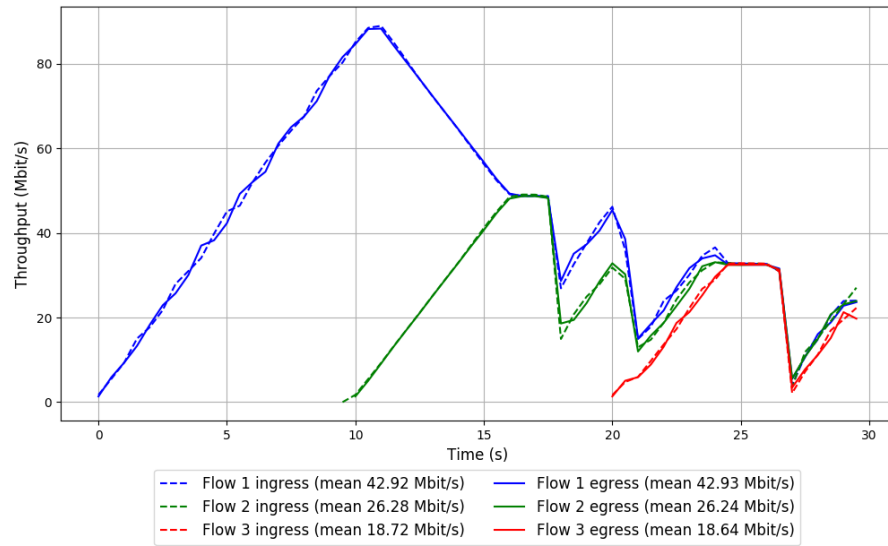


Run 9: Statistics of LEDBAT

Start at: 2017-11-16 10:08:45
End at: 2017-11-16 10:09:15
Local clock offset: 1.313 ms
Remote clock offset: -0.518 ms

Below is generated by plot.py at 2017-11-16 13:50:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.52 Mbit/s
95th percentile per-packet one-way delay: 49.024 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 49.055 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 26.24 Mbit/s
95th percentile per-packet one-way delay: 49.083 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 18.64 Mbit/s
95th percentile per-packet one-way delay: 48.031 ms
Loss rate: 0.95%

Run 9: Report of LEDBAT — Data Link

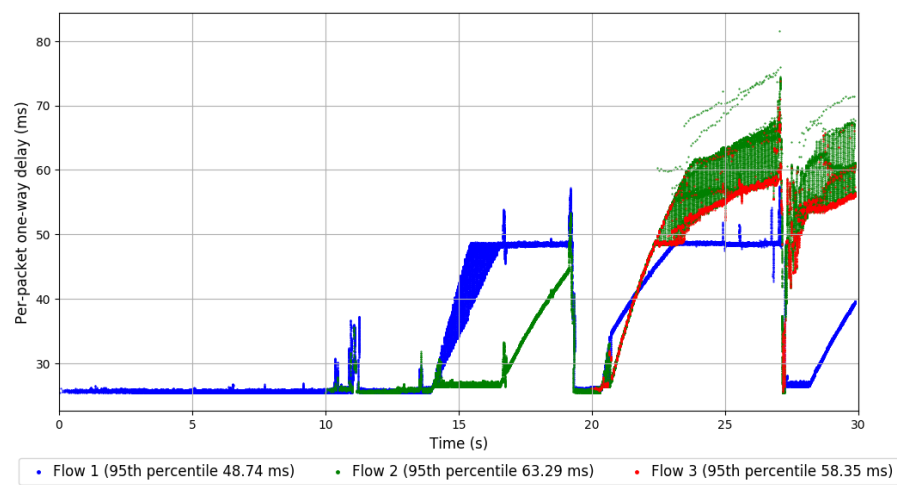
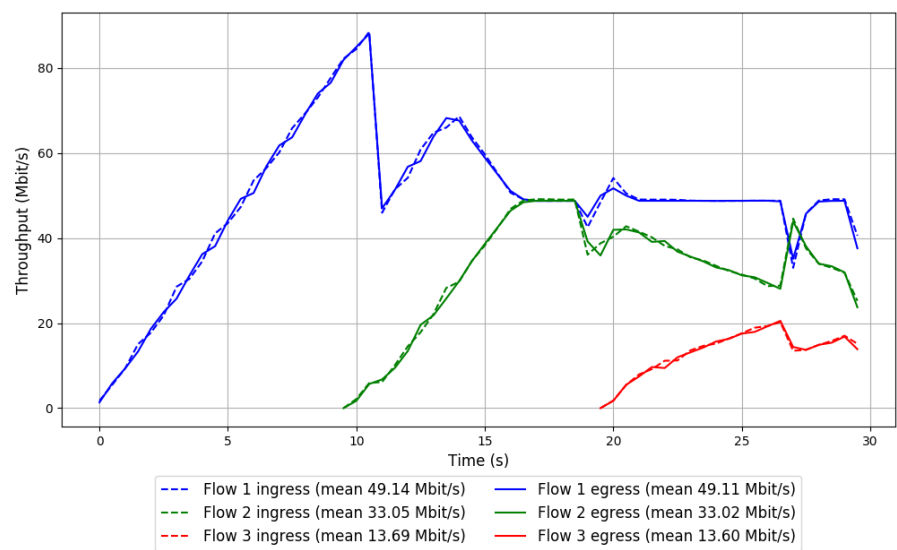


Run 10: Statistics of LEDBAT

Start at: 2017-11-16 10:28:09
End at: 2017-11-16 10:28:39
Local clock offset: 0.964 ms
Remote clock offset: -1.001 ms

Below is generated by plot.py at 2017-11-16 13:51:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.64 Mbit/s
95th percentile per-packet one-way delay: 58.251 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 48.739 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 63.293 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 58.354 ms
Loss rate: 1.18%

Run 10: Report of LEDBAT — Data Link

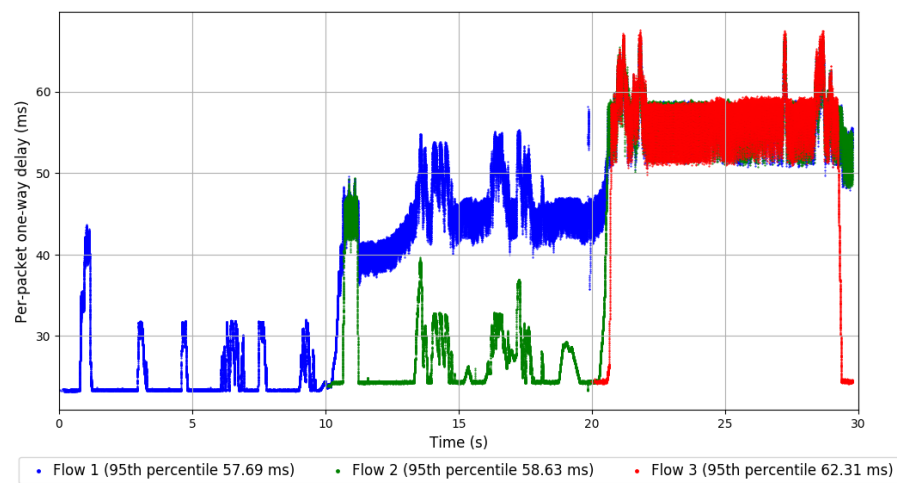
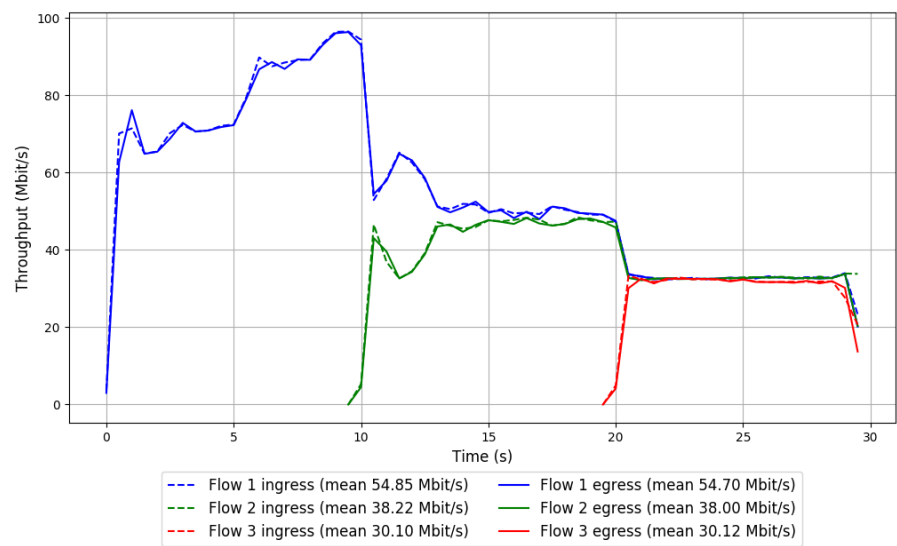


Run 1: Statistics of PCC

Start at: 2017-11-16 07:28:02
End at: 2017-11-16 07:28:32
Local clock offset: 0.595 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2017-11-16 13:51:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 58.498 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 54.70 Mbit/s
95th percentile per-packet one-way delay: 57.690 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 58.631 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 62.310 ms
Loss rate: 1.50%

Run 1: Report of PCC — Data Link

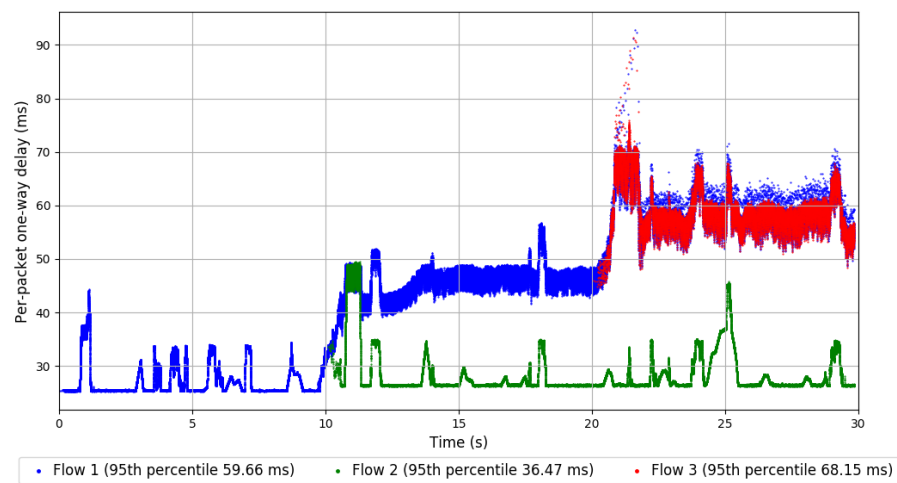
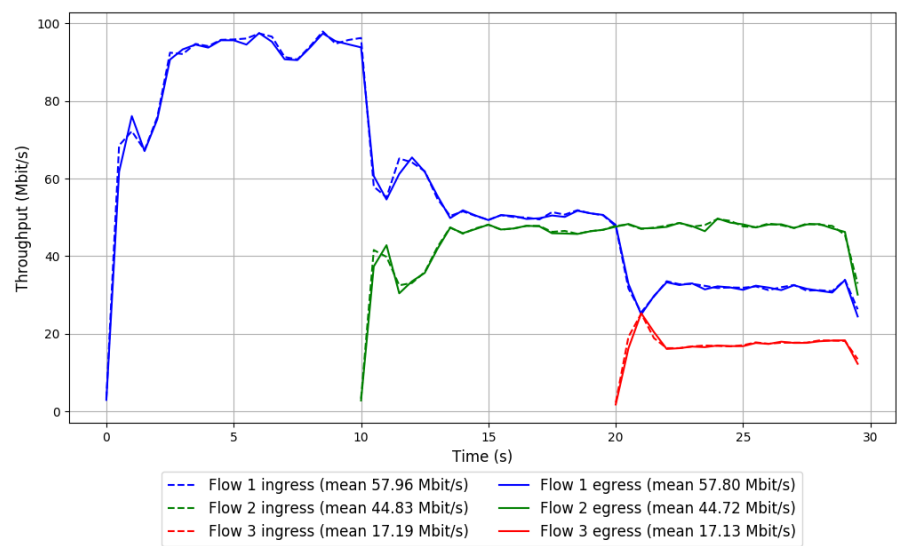


Run 2: Statistics of PCC

Start at: 2017-11-16 07:47:17
End at: 2017-11-16 07:47:47
Local clock offset: 1.116 ms
Remote clock offset: -1.985 ms

Below is generated by plot.py at 2017-11-16 13:51:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 59.605 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 57.80 Mbit/s
95th percentile per-packet one-way delay: 59.663 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 44.72 Mbit/s
95th percentile per-packet one-way delay: 36.469 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 17.13 Mbit/s
95th percentile per-packet one-way delay: 68.149 ms
Loss rate: 1.15%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-16 08:06:41

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

Local clock offset: 1.765 ms

Remote clock offset: 1.369 ms

Below is generated by plot.py at 2017-11-16 13:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 46.274 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 62.84 Mbit/s

95th percentile per-packet one-way delay: 46.740 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 34.816 ms

Loss rate: 0.43%

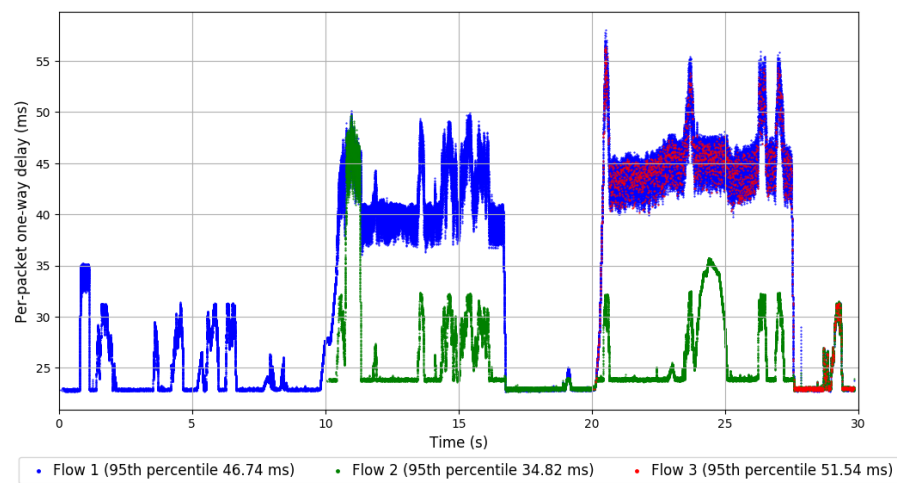
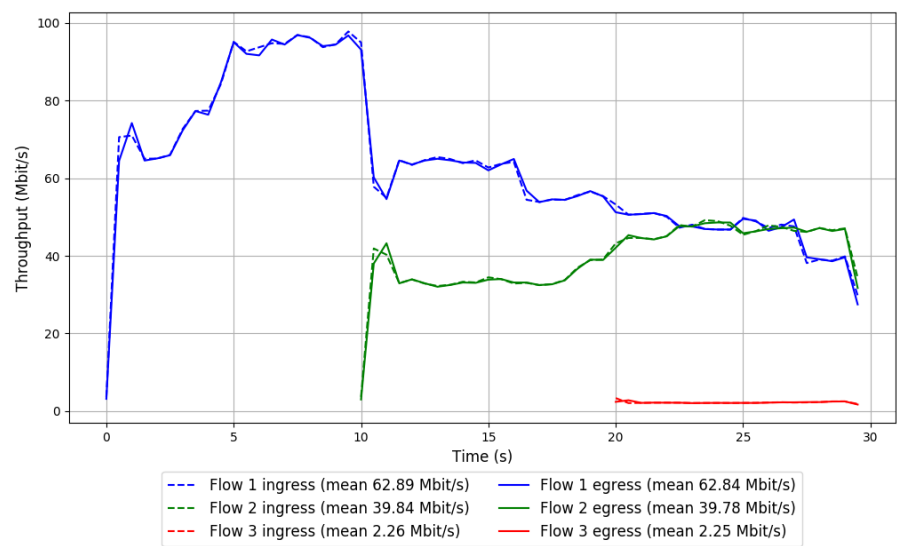
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 51.542 ms

Loss rate: 0.78%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 08:25:50

End at: 2017-11-16 08:26:20

Local clock offset: 2.317 ms

Remote clock offset: 1.557 ms

Below is generated by plot.py at 2017-11-16 13:51:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 57.761 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 56.893 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 57.925 ms

Loss rate: 0.41%

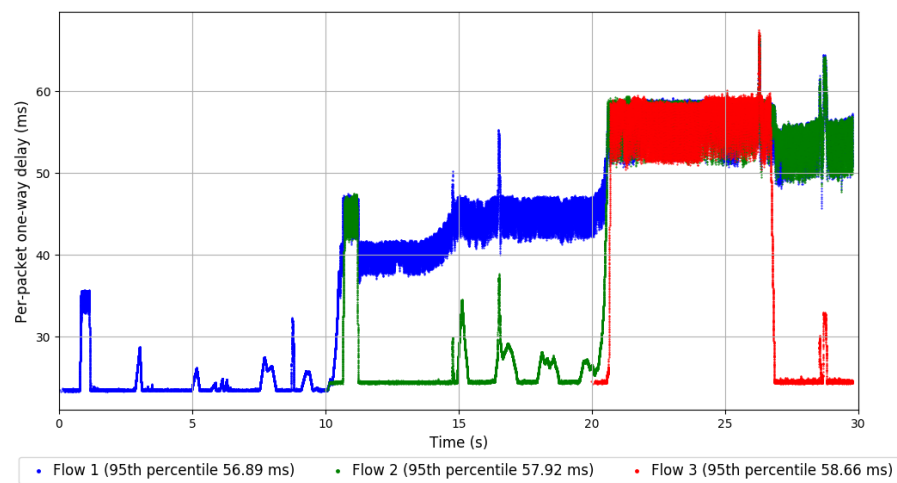
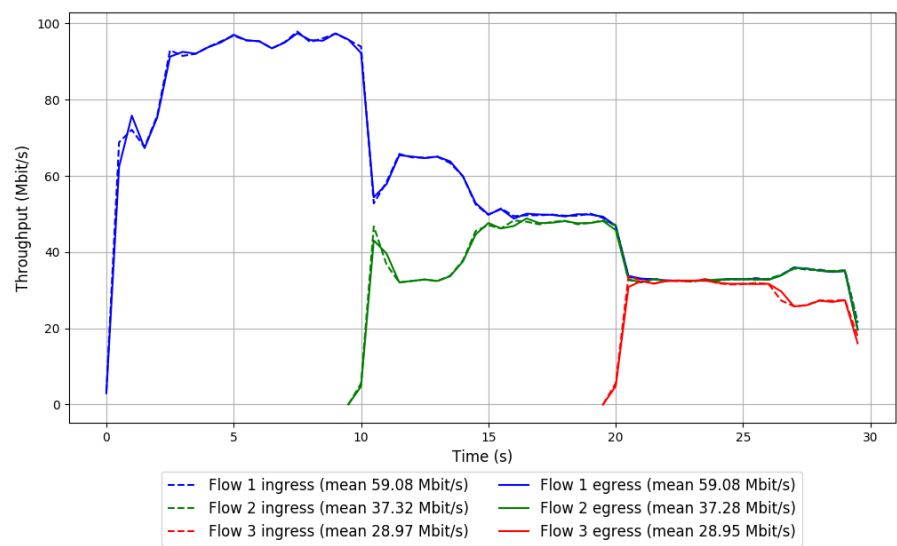
-- Flow 3:

Average throughput: 28.95 Mbit/s

95th percentile per-packet one-way delay: 58.664 ms

Loss rate: 0.64%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 08:45:05

End at: 2017-11-16 08:45:35

Local clock offset: 2.571 ms

Remote clock offset: 1.971 ms

Below is generated by plot.py at 2017-11-16 13:51:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 58.117 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 57.262 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 58.351 ms

Loss rate: 0.61%

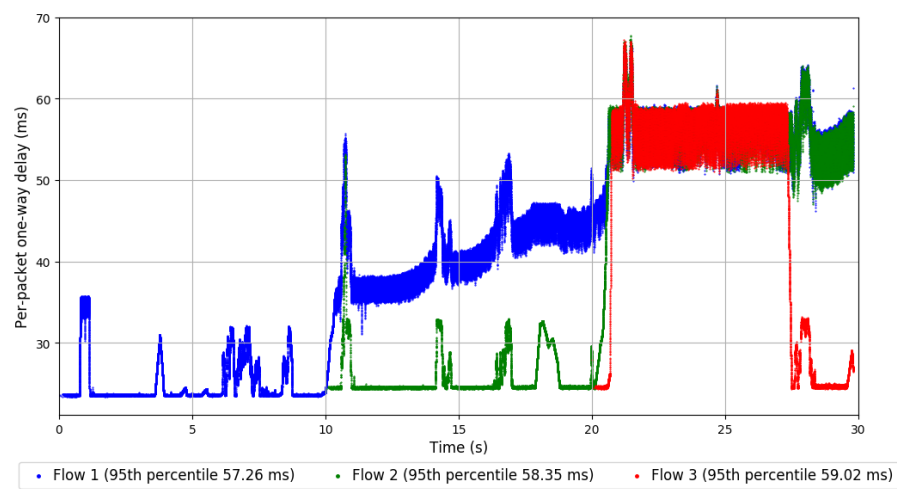
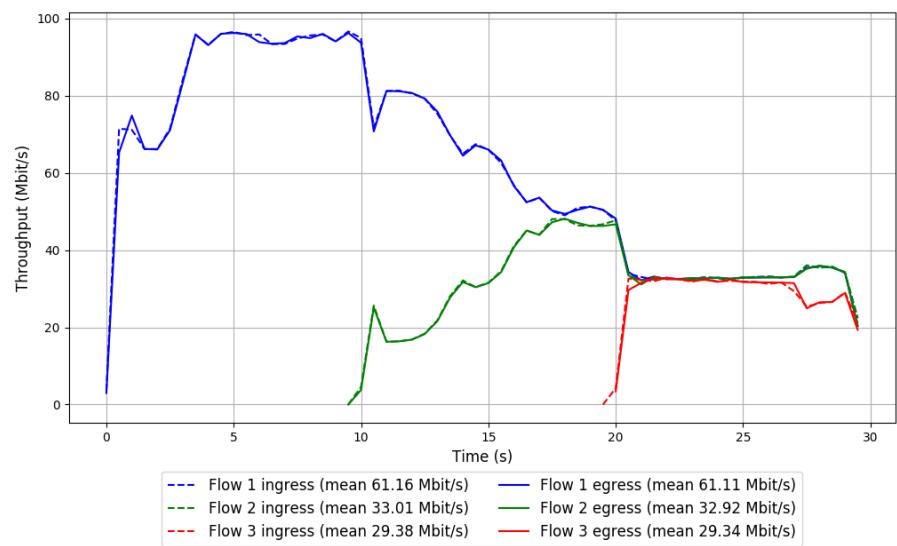
-- Flow 3:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 59.025 ms

Loss rate: 0.70%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-16 09:04:25

End at: 2017-11-16 09:04:55

Local clock offset: 2.101 ms

Remote clock offset: -0.29 ms

Below is generated by plot.py at 2017-11-16 13:52:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 60.625 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 59.623 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 36.55 Mbit/s

95th percentile per-packet one-way delay: 61.062 ms

Loss rate: 0.53%

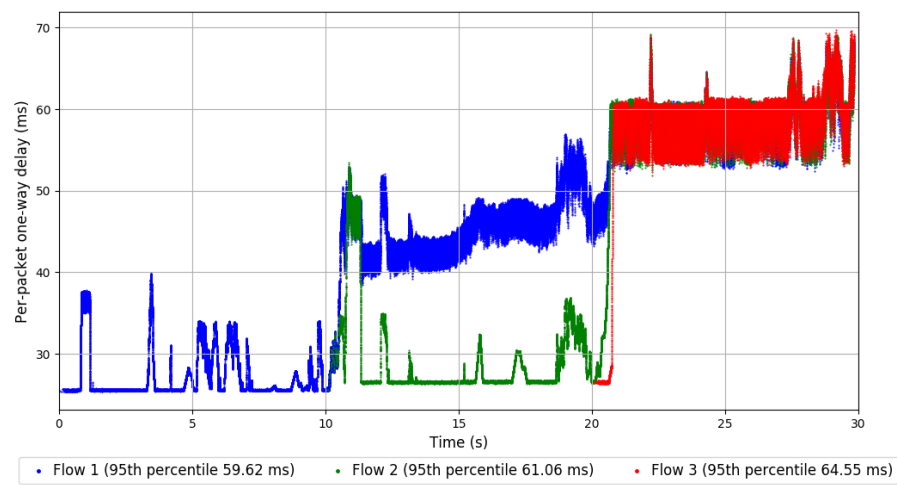
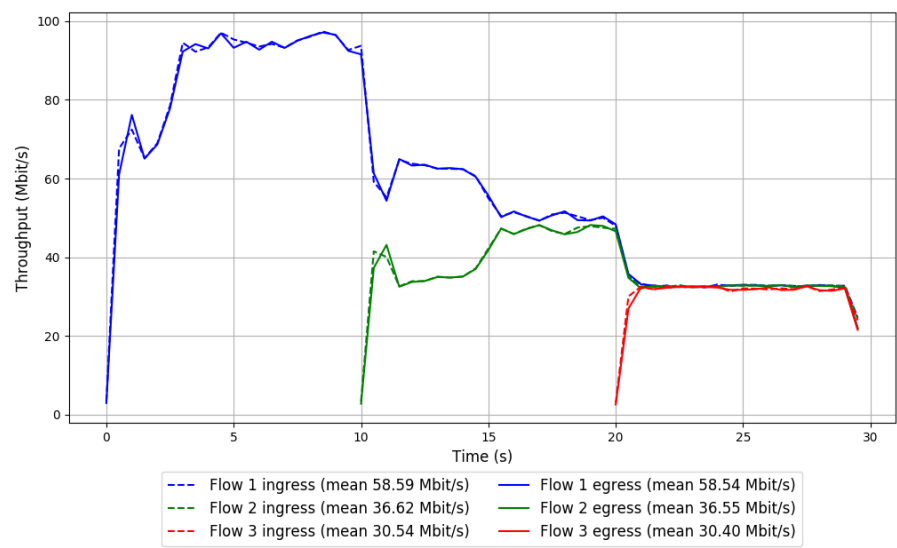
-- Flow 3:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 64.548 ms

Loss rate: 1.15%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 09:23:33

End at: 2017-11-16 09:24:03

Local clock offset: 1.91 ms

Remote clock offset: 1.599 ms

Below is generated by plot.py at 2017-11-16 13:52:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 58.024 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 57.648 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 57.814 ms

Loss rate: 0.52%

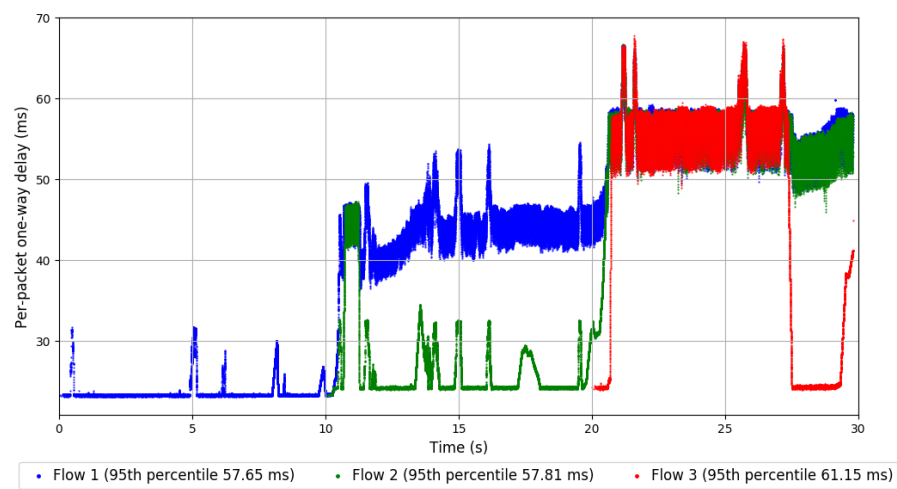
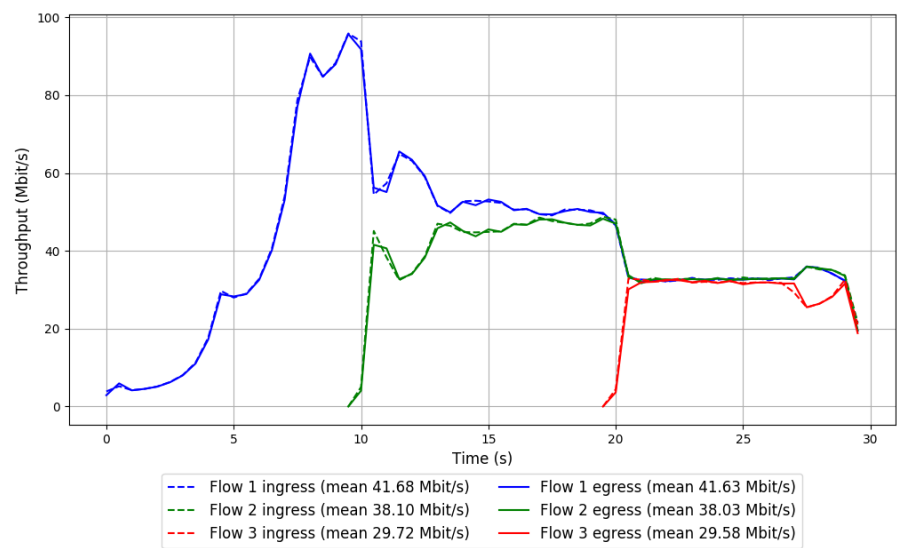
-- Flow 3:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 61.152 ms

Loss rate: 0.98%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-16 09:42:39

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

Local clock offset: 1.739 ms

Remote clock offset: 1.511 ms

Below is generated by plot.py at 2017-11-16 13:52:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 57.690 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 56.705 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 57.872 ms

Loss rate: 0.28%

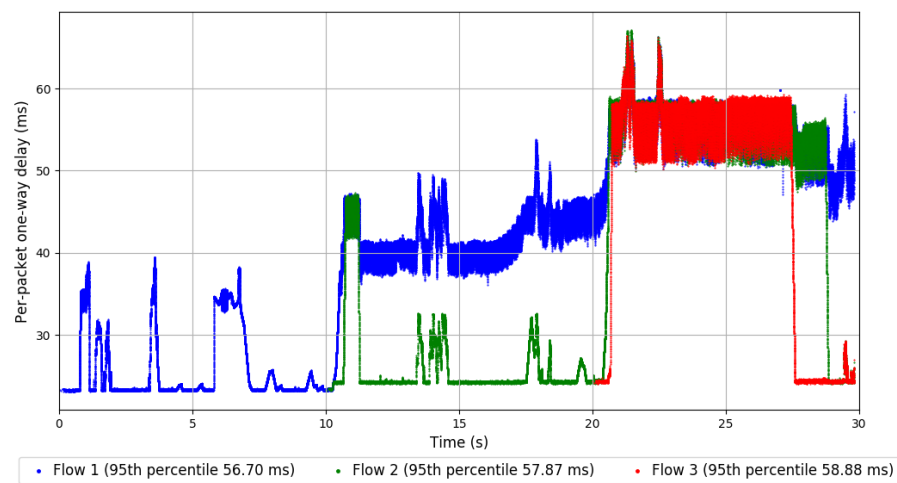
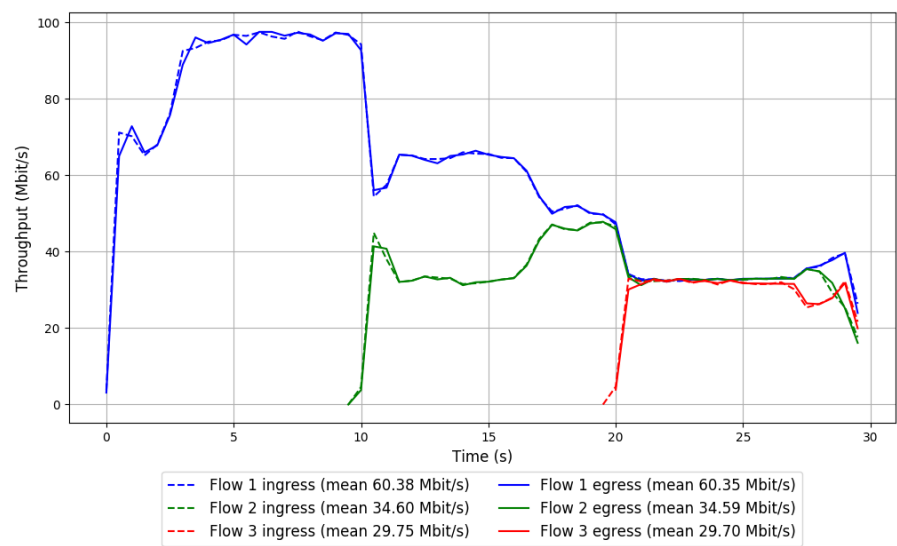
-- Flow 3:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 58.880 ms

Loss rate: 0.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

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

Local clock offset: 1.467 ms

Remote clock offset: 1.285 ms

Below is generated by plot.py at 2017-11-16 13:52:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 58.379 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 58.28 Mbit/s

95th percentile per-packet one-way delay: 57.605 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 37.08 Mbit/s

95th percentile per-packet one-way delay: 58.652 ms

Loss rate: 0.22%

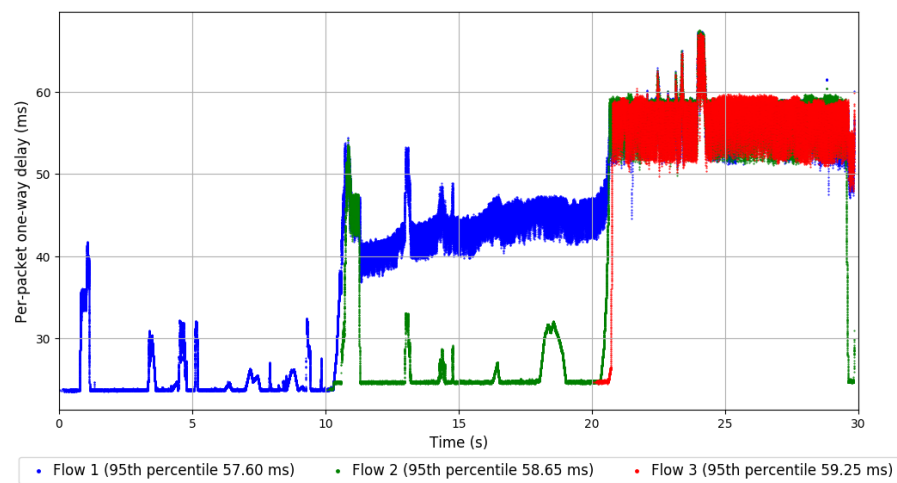
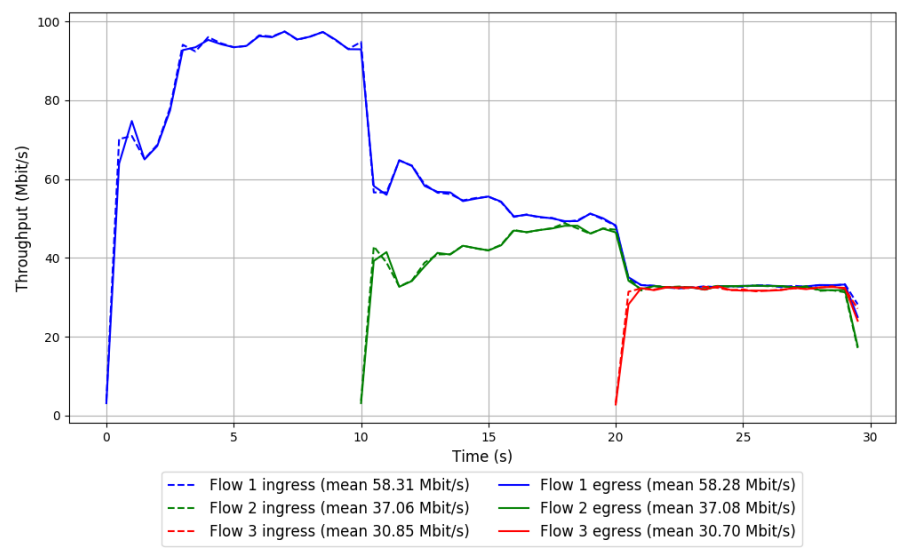
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 59.254 ms

Loss rate: 1.11%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-16 10:20:54

End at: 2017-11-16 10:21:24

Local clock offset: 1.014 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at 2017-11-16 13:53:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.94 Mbit/s

95th percentile per-packet one-way delay: 58.433 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 59.13 Mbit/s

95th percentile per-packet one-way delay: 57.413 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 34.19 Mbit/s

95th percentile per-packet one-way delay: 59.010 ms

Loss rate: 0.62%

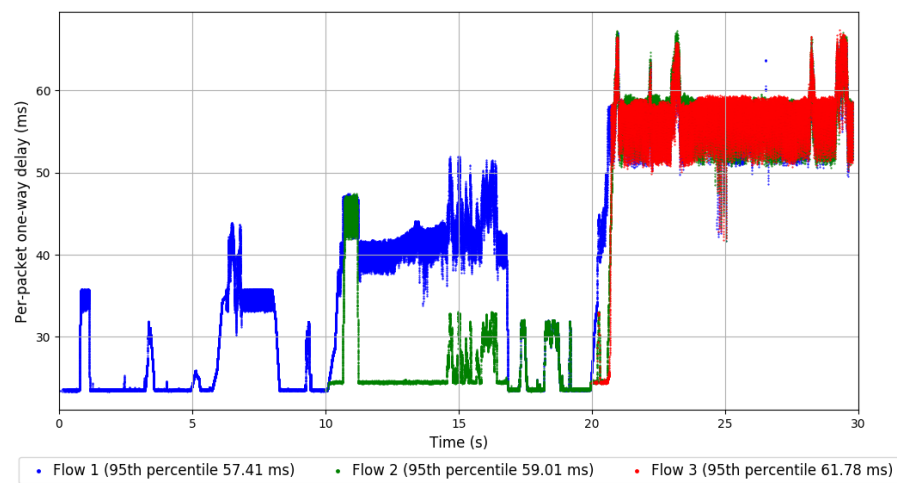
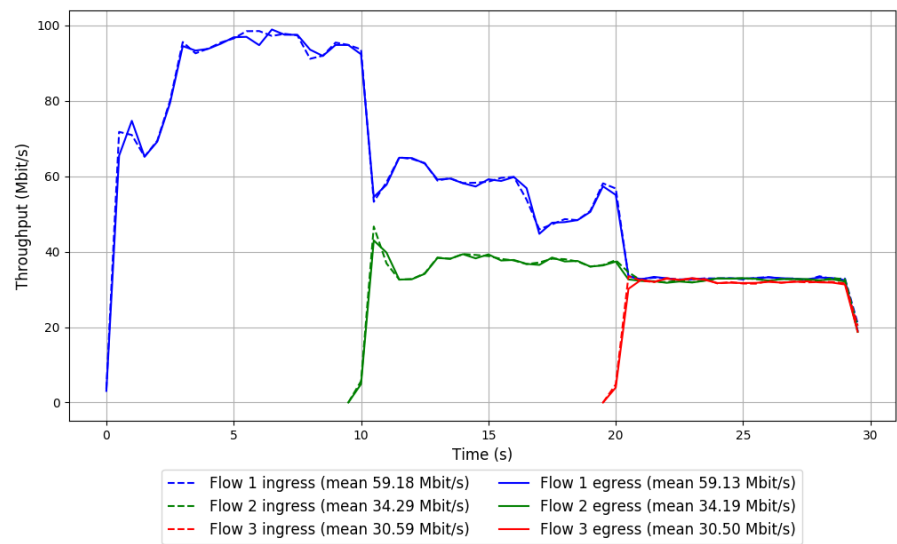
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 61.777 ms

Loss rate: 0.99%

Run 10: Report of PCC — Data Link

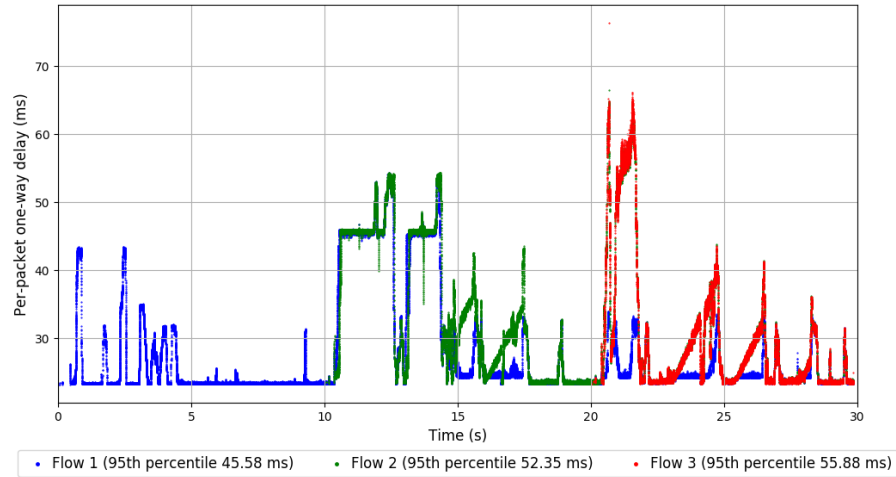
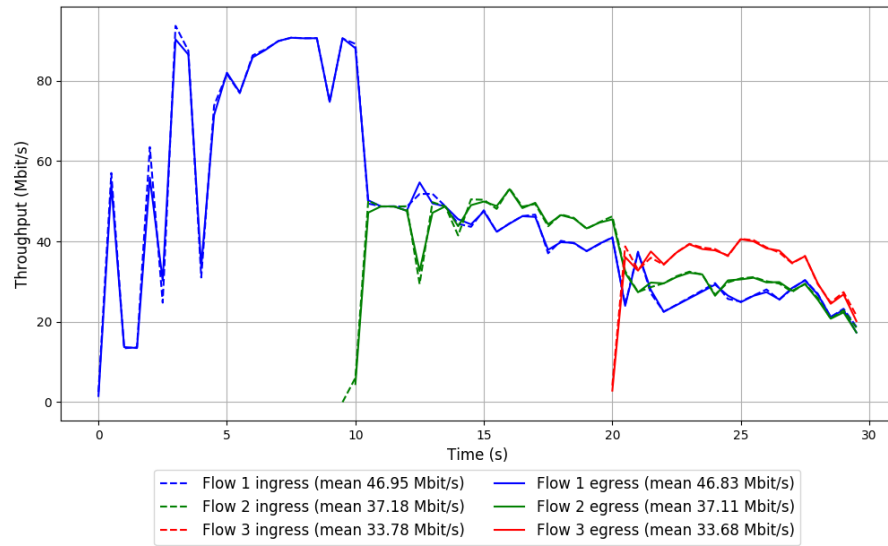


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 07:36:29
End at: 2017-11-16 07:36:59
Local clock offset: 0.755 ms
Remote clock offset: -0.348 ms

Below is generated by plot.py at 2017-11-16 13:53:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.58 Mbit/s
95th percentile per-packet one-way delay: 46.166 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 45.584 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 52.351 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 55.877 ms
Loss rate: 0.81%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 07:55:48

End at: 2017-11-16 07:56:18

Local clock offset: 1.37 ms

Remote clock offset: 0.817 ms

Below is generated by plot.py at 2017-11-16 13:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.14 Mbit/s

95th percentile per-packet one-way delay: 49.570 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 44.57 Mbit/s

95th percentile per-packet one-way delay: 45.033 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 55.871 ms

Loss rate: 0.52%

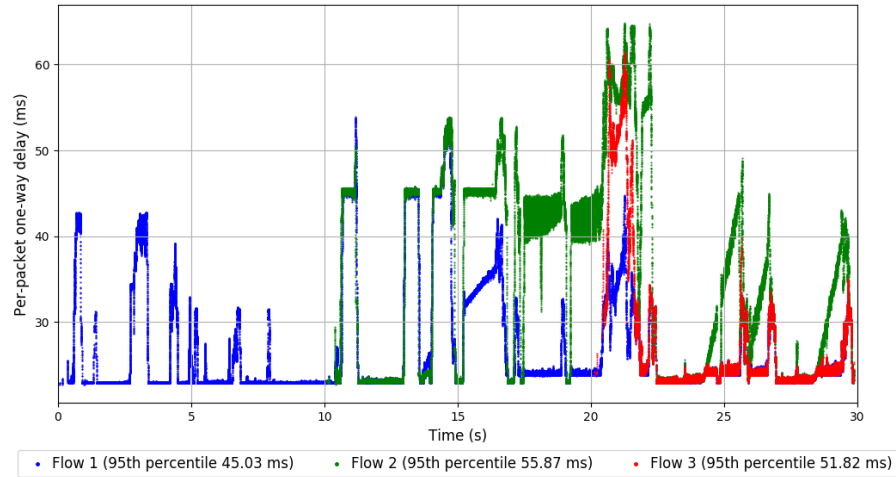
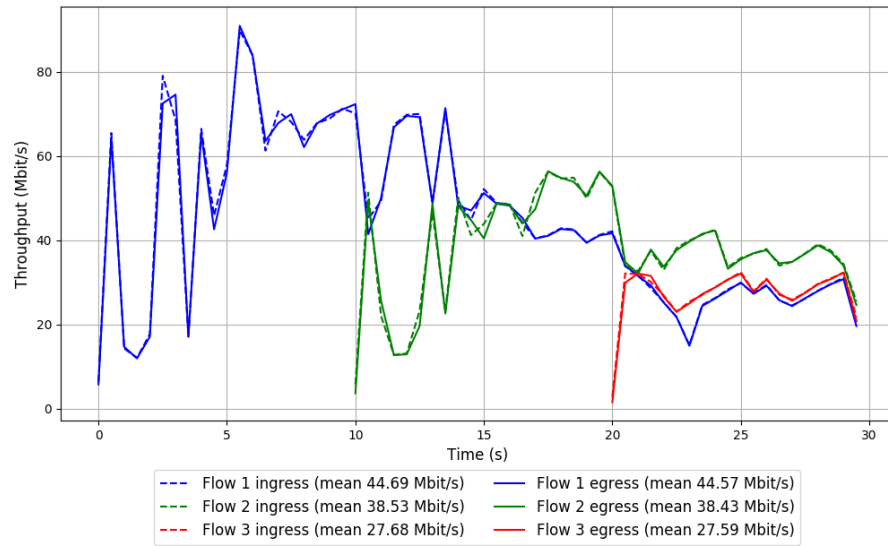
-- Flow 3:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 51.822 ms

Loss rate: 0.85%

Run 2: Report of QUIC Cubic — Data Link

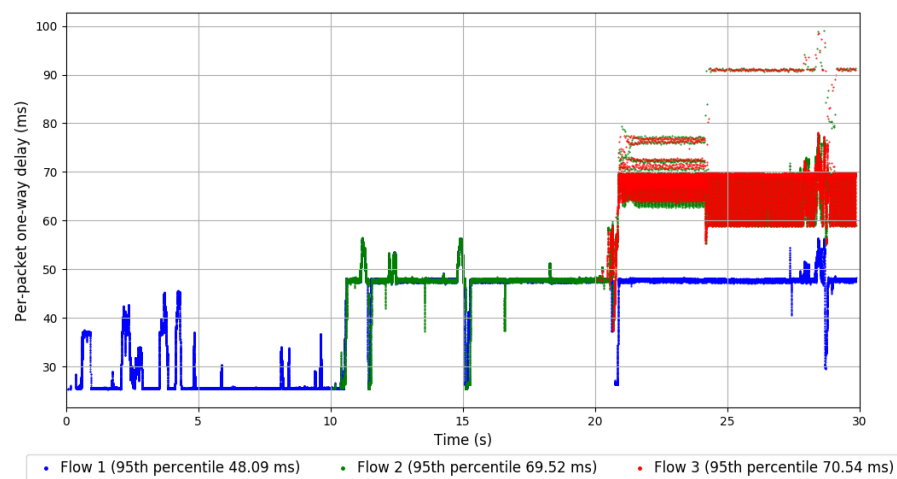
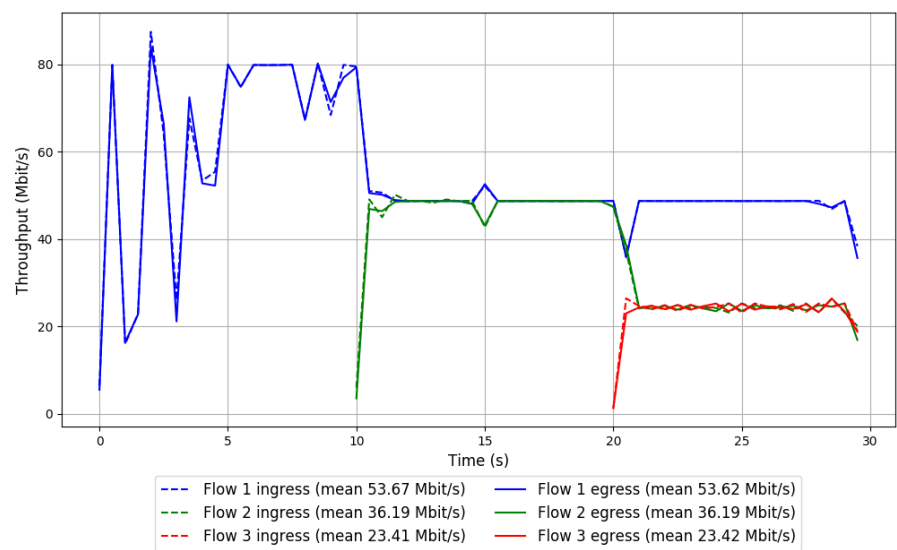


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 08:15:03
End at: 2017-11-16 08:15:33
Local clock offset: 1.893 ms
Remote clock offset: -1.014 ms

Below is generated by plot.py at 2017-11-16 13:53:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 69.361 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 53.62 Mbit/s
95th percentile per-packet one-way delay: 48.087 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 69.519 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 70.536 ms
Loss rate: 0.94%

Run 3: Report of QUIC Cubic — Data Link

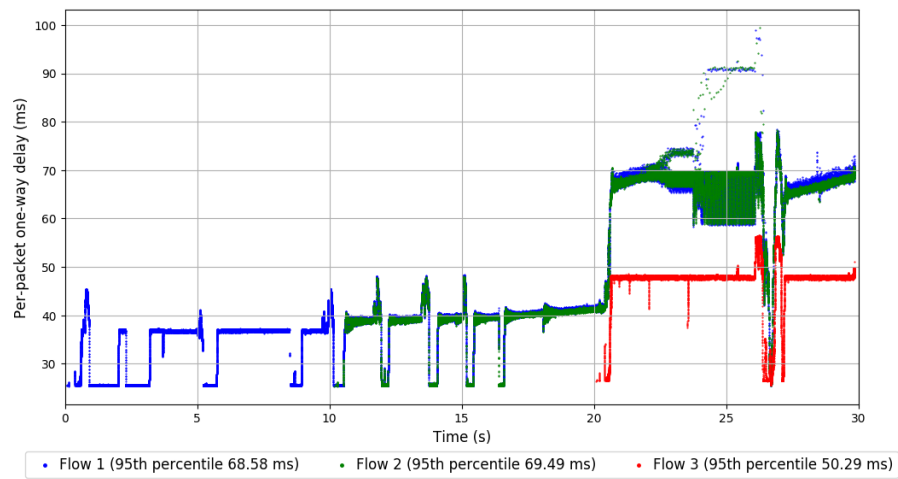
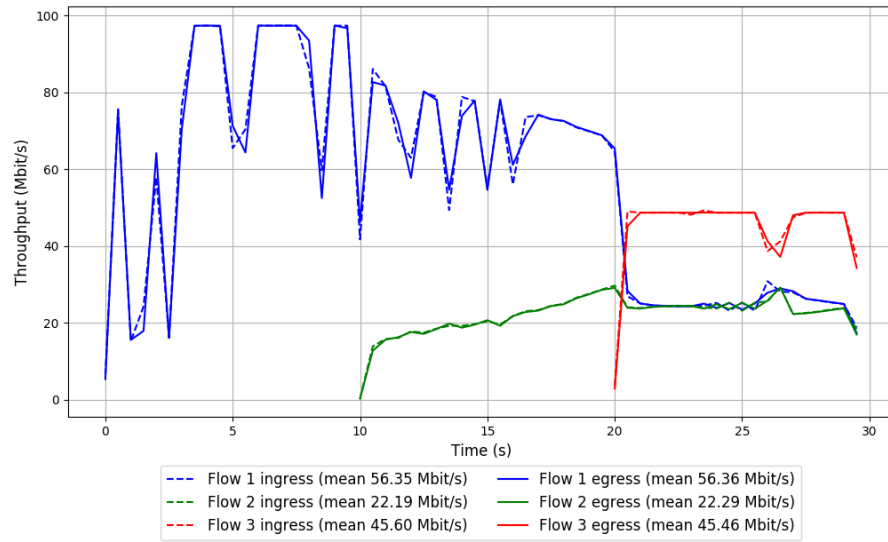


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 08:34:14
End at: 2017-11-16 08:34:44
Local clock offset: 2.488 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2017-11-16 13:53:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 68.888 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 68.582 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 22.29 Mbit/s
95th percentile per-packet one-way delay: 69.489 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 45.46 Mbit/s
95th percentile per-packet one-way delay: 50.291 ms
Loss rate: 0.93%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 08:53:32

End at: 2017-11-16 08:54:02

Local clock offset: 2.426 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2017-11-16 13:53:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 65.091 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 65.135 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 22.22 Mbit/s

95th percentile per-packet one-way delay: 66.094 ms

Loss rate: 0.54%

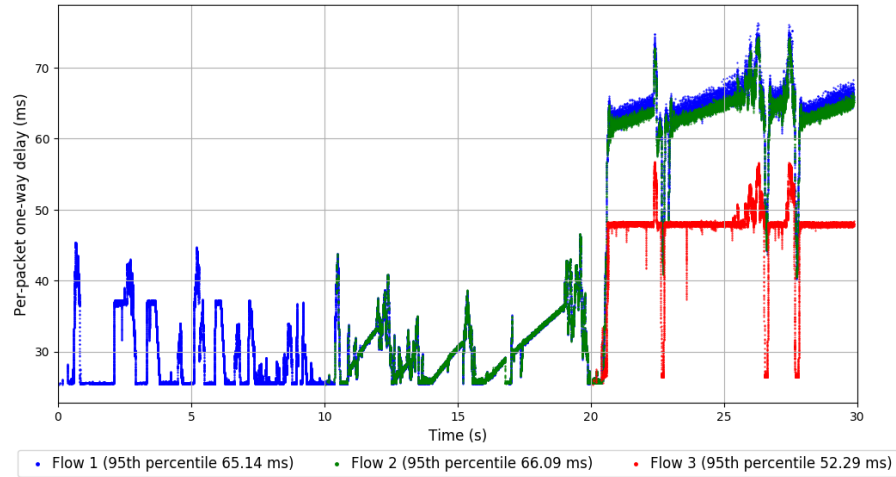
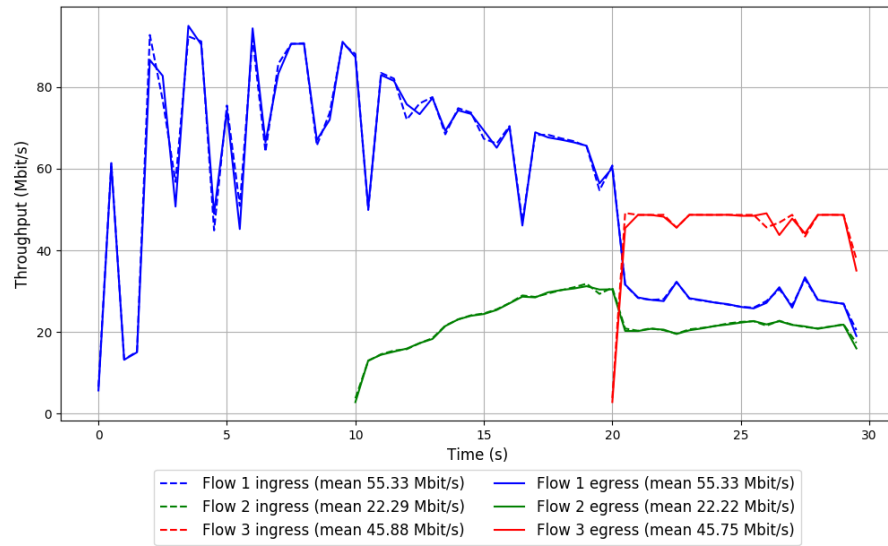
-- Flow 3:

Average throughput: 45.75 Mbit/s

95th percentile per-packet one-way delay: 52.294 ms

Loss rate: 0.90%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 09:12:46

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

Local clock offset: 1.958 ms

Remote clock offset: 1.417 ms

Below is generated by plot.py at 2017-11-16 13:54:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.32 Mbit/s

95th percentile per-packet one-way delay: 67.516 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 48.25 Mbit/s

95th percentile per-packet one-way delay: 67.465 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 47.41 Mbit/s

95th percentile per-packet one-way delay: 48.171 ms

Loss rate: 0.33%

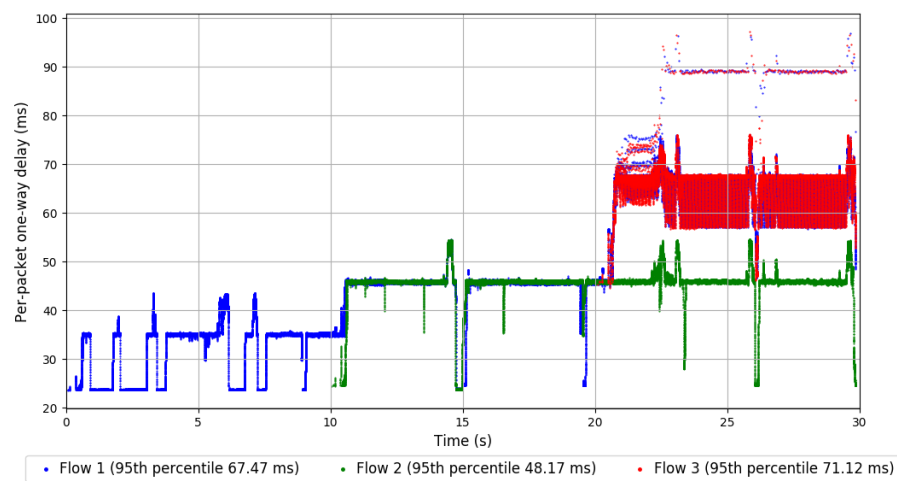
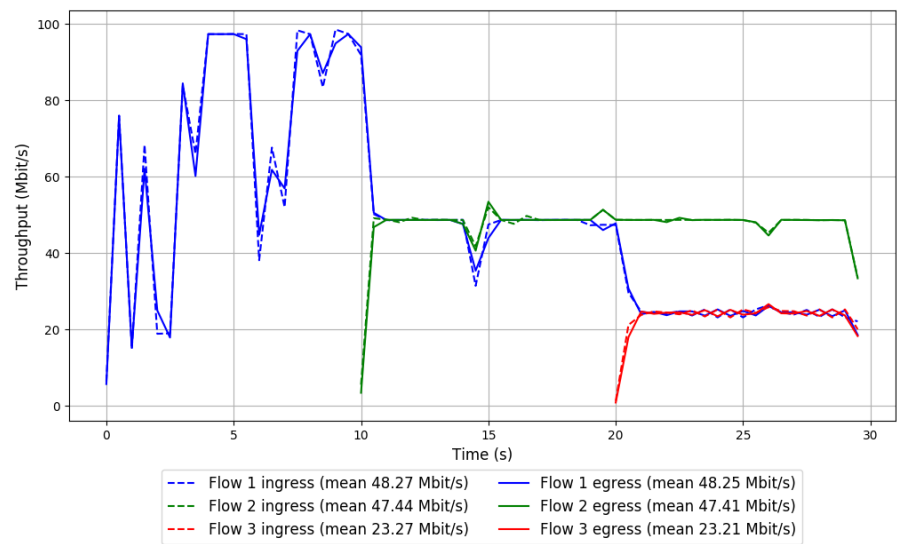
-- Flow 3:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 71.123 ms

Loss rate: 1.28%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 09:31:53

End at: 2017-11-16 09:32:23

Local clock offset: 1.852 ms

Remote clock offset: 1.039 ms

Below is generated by plot.py at 2017-11-16 13:54:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 56.733 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 62.11 Mbit/s

95th percentile per-packet one-way delay: 55.712 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 28.34 Mbit/s

95th percentile per-packet one-way delay: 58.245 ms

Loss rate: 0.50%

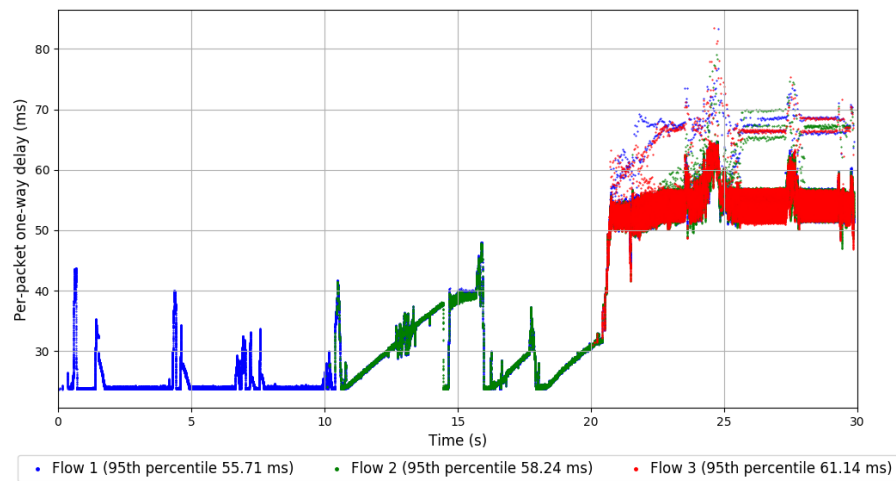
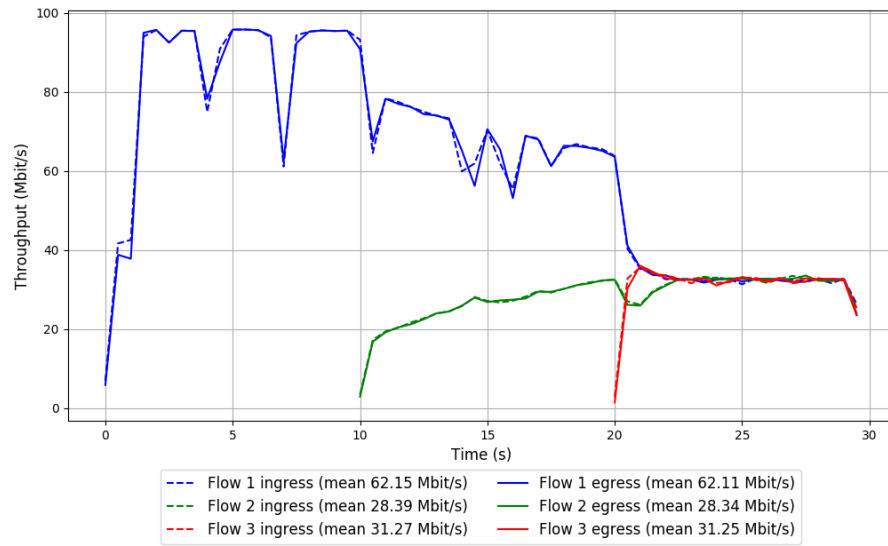
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 61.138 ms

Loss rate: 0.90%

Run 7: Report of QUIC Cubic — Data Link

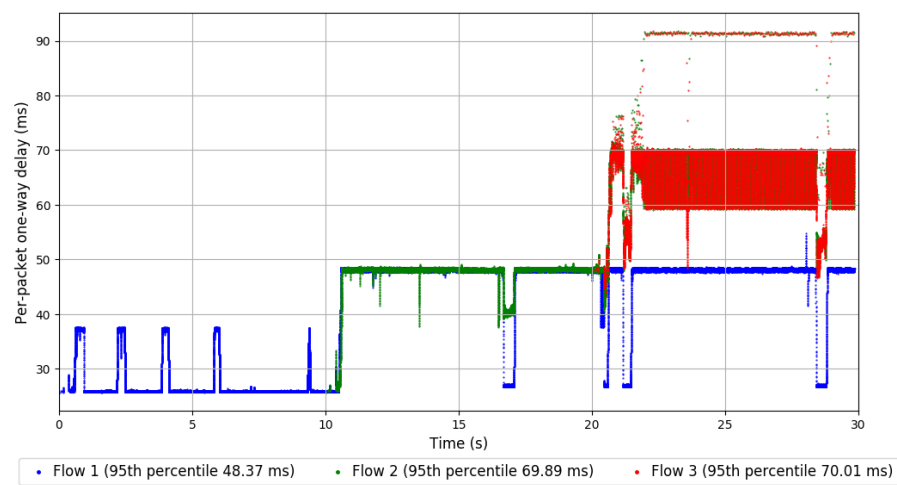
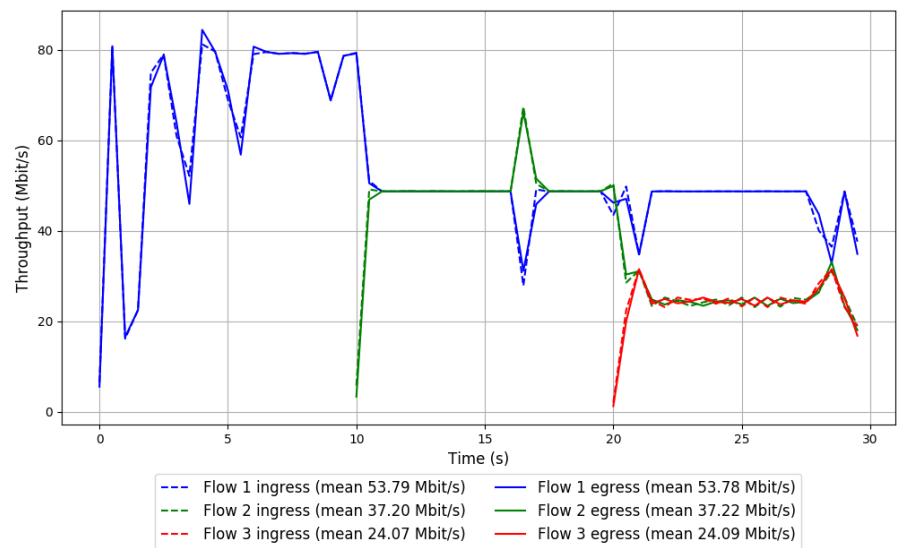


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 09:51:00
End at: 2017-11-16 09:51:30
Local clock offset: 1.625 ms
Remote clock offset: -0.982 ms

Below is generated by plot.py at 2017-11-16 13:54:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 69.736 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 48.367 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 37.22 Mbit/s
95th percentile per-packet one-way delay: 69.895 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 70.013 ms
Loss rate: 0.90%

Run 8: Report of QUIC Cubic — Data Link

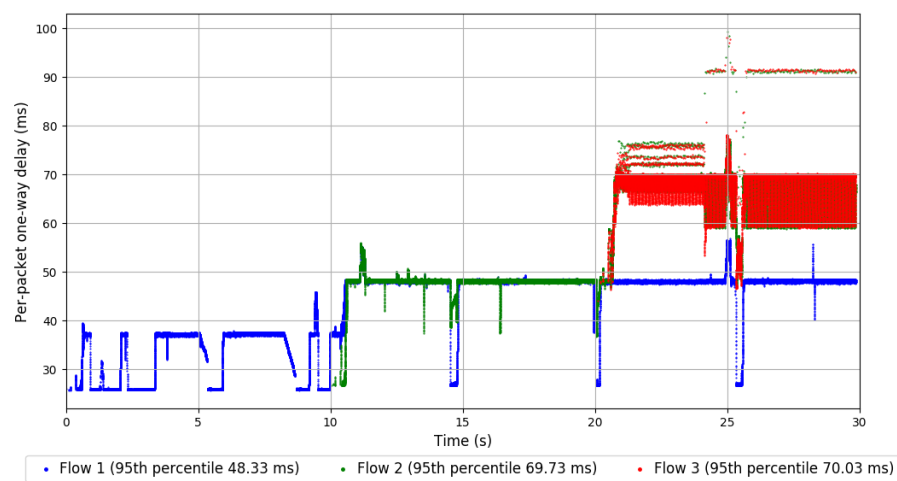
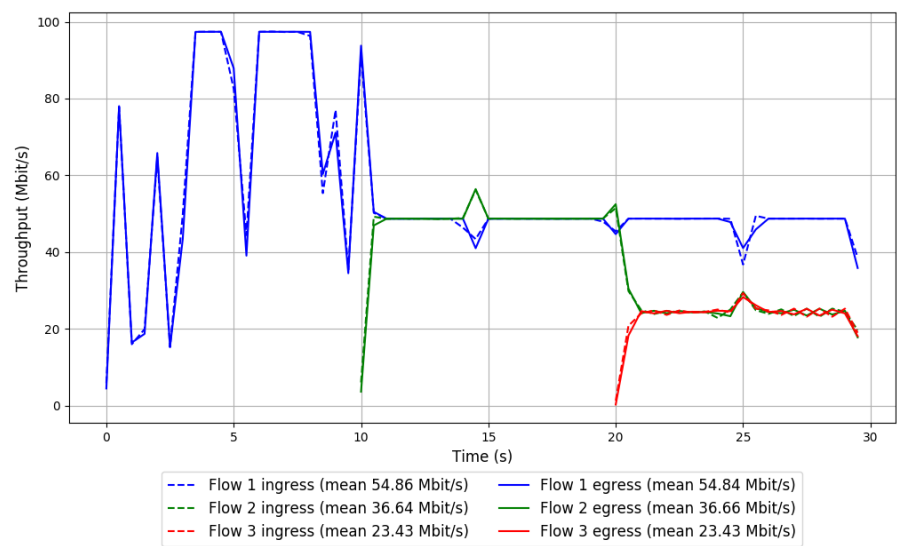


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 10:10:07
End at: 2017-11-16 10:10:37
Local clock offset: 1.27 ms
Remote clock offset: -0.614 ms

Below is generated by plot.py at 2017-11-16 13:54:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.85 Mbit/s
95th percentile per-packet one-way delay: 69.601 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 48.327 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 36.66 Mbit/s
95th percentile per-packet one-way delay: 69.735 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 70.032 ms
Loss rate: 0.94%

Run 9: Report of QUIC Cubic — Data Link

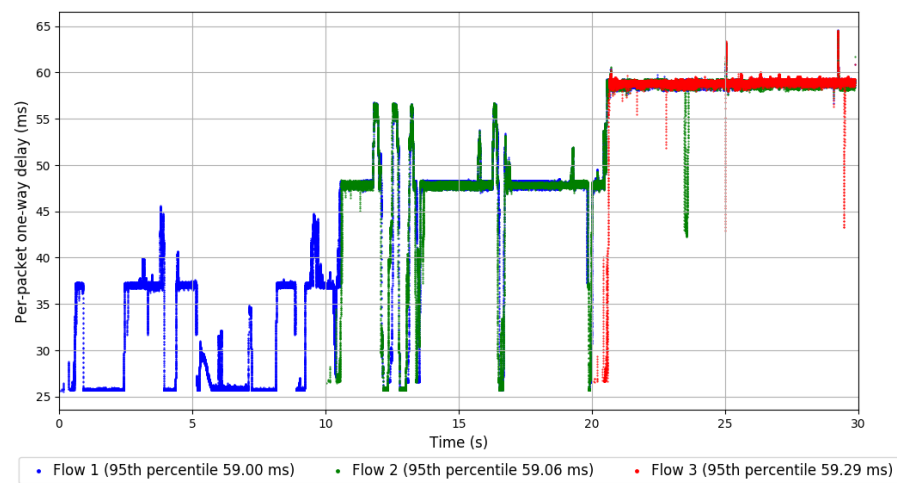
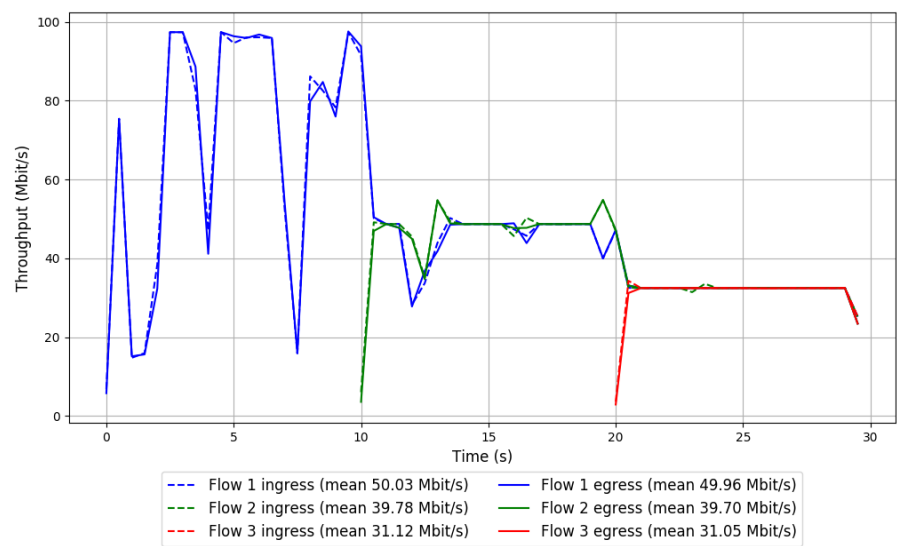


Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 10:29:32
End at: 2017-11-16 10:30:02
Local clock offset: 1.026 ms
Remote clock offset: -1.202 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.55 Mbit/s
95th percentile per-packet one-way delay: 59.118 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 49.96 Mbit/s
95th percentile per-packet one-way delay: 59.003 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 59.057 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 59.287 ms
Loss rate: 0.92%

Run 10: Report of QUIC Cubic — Data Link

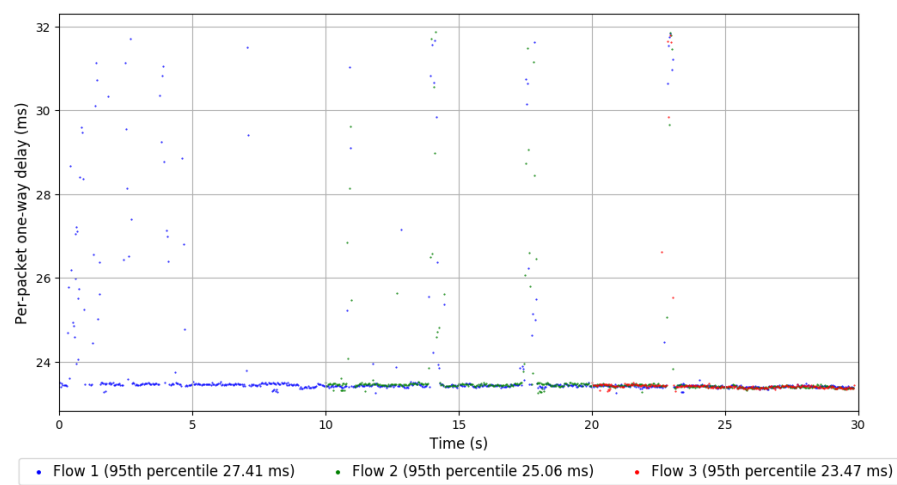
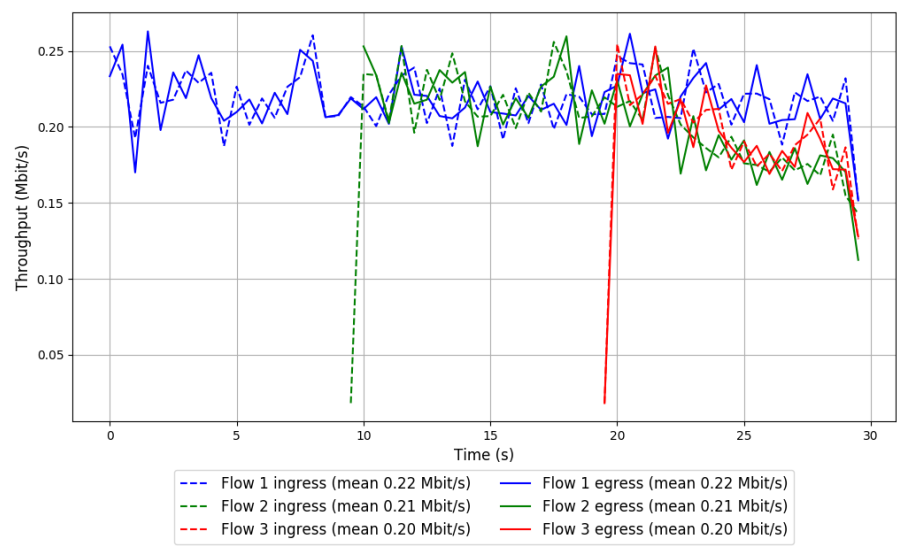


Run 1: Statistics of SReAM

Start at: 2017-11-16 07:26:45
End at: 2017-11-16 07:27:15
Local clock offset: 0.58 ms
Remote clock offset: -0.407 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 26.374 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.405 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.057 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 23.473 ms
Loss rate: 0.83%

Run 1: Report of SReAM — Data Link

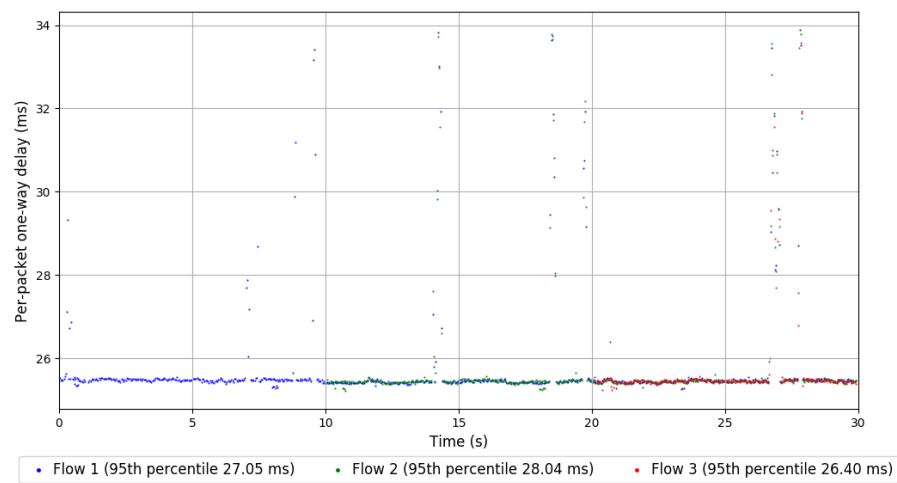
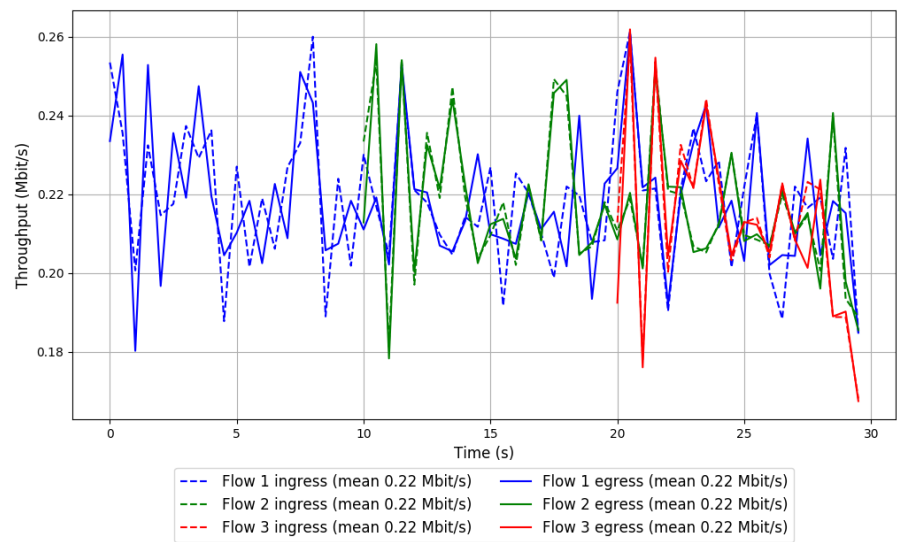


Run 2: Statistics of SReAM

Start at: 2017-11-16 07:46:00
End at: 2017-11-16 07:46:30
Local clock offset: 1.081 ms
Remote clock offset: -2.121 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 27.118 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.053 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.041 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.400 ms
Loss rate: 0.82%

Run 2: Report of SReAM — Data Link

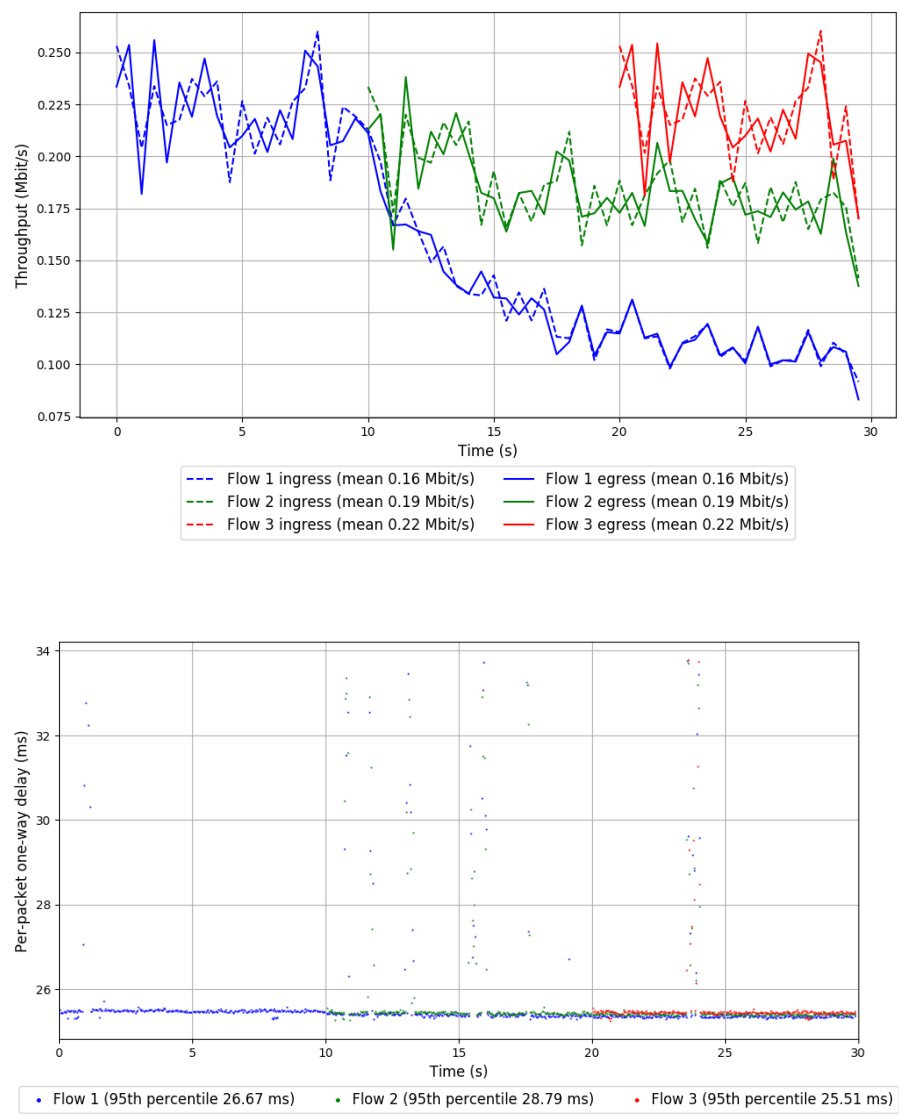


Run 3: Statistics of SCReAM

Start at: 2017-11-16 08:05:24
End at: 2017-11-16 08:05:54
Local clock offset: 1.638 ms
Remote clock offset: -1.257 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 27.312 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 26.671 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 28.792 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.511 ms
Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-11-16 08:24:33

End at: 2017-11-16 08:25:03

Local clock offset: 2.275 ms

Remote clock offset: 1.415 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 23.768 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 23.768 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.785 ms

Loss rate: 0.40%

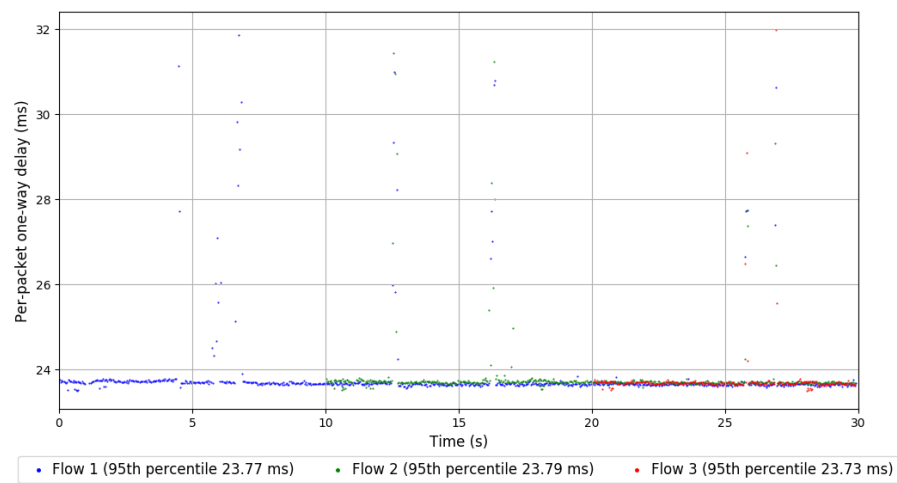
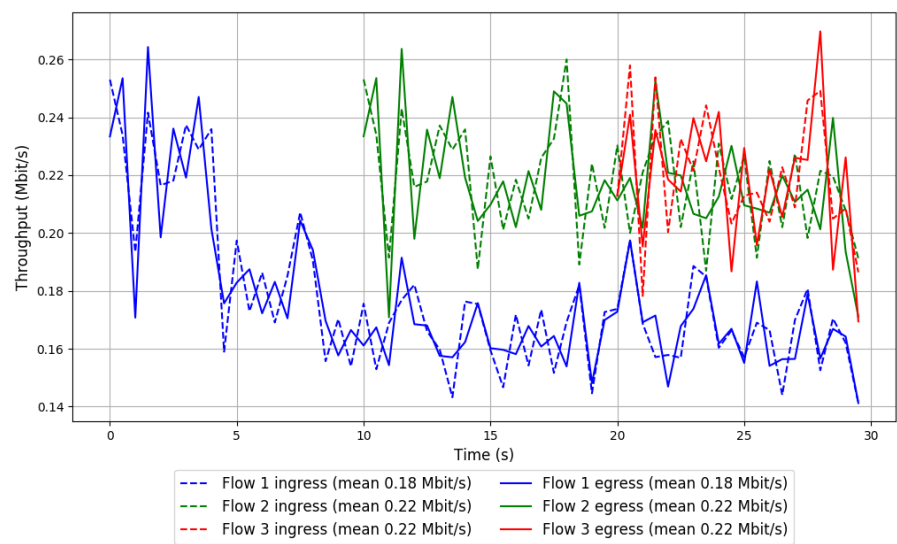
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.727 ms

Loss rate: 0.39%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-16 08:43:47

End at: 2017-11-16 08:44:17

Local clock offset: 2.606 ms

Remote clock offset: 2.294 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 23.373 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.376 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.370 ms

Loss rate: 0.22%

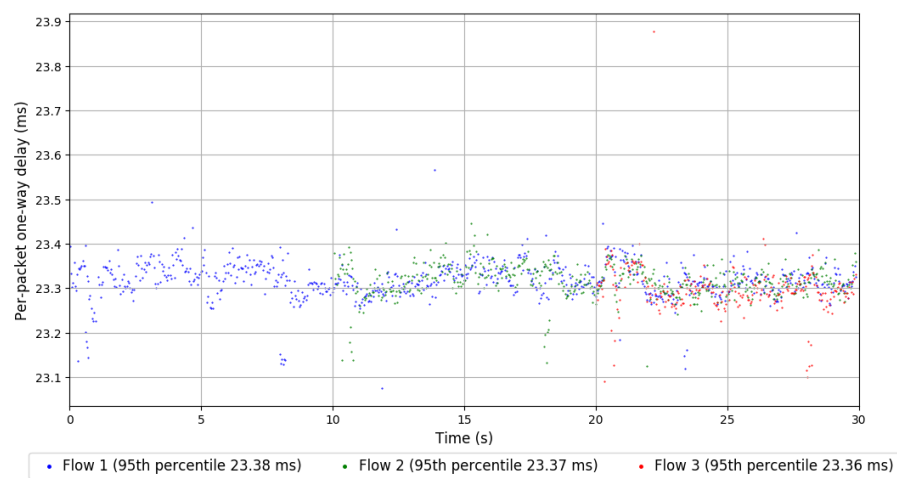
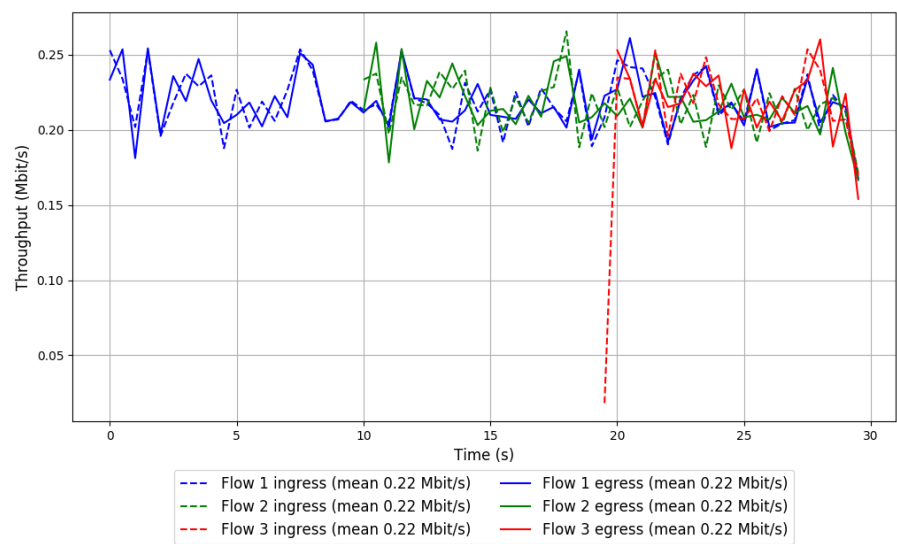
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.359 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-16 09:03:07

End at: 2017-11-16 09:03:37

Local clock offset: 2.215 ms

Remote clock offset: 1.679 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 23.753 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.769 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 23.737 ms

Loss rate: 0.52%

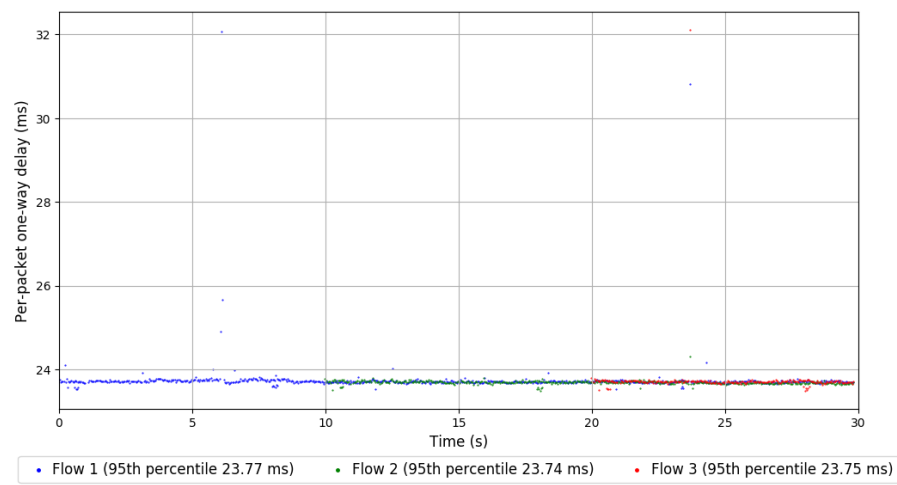
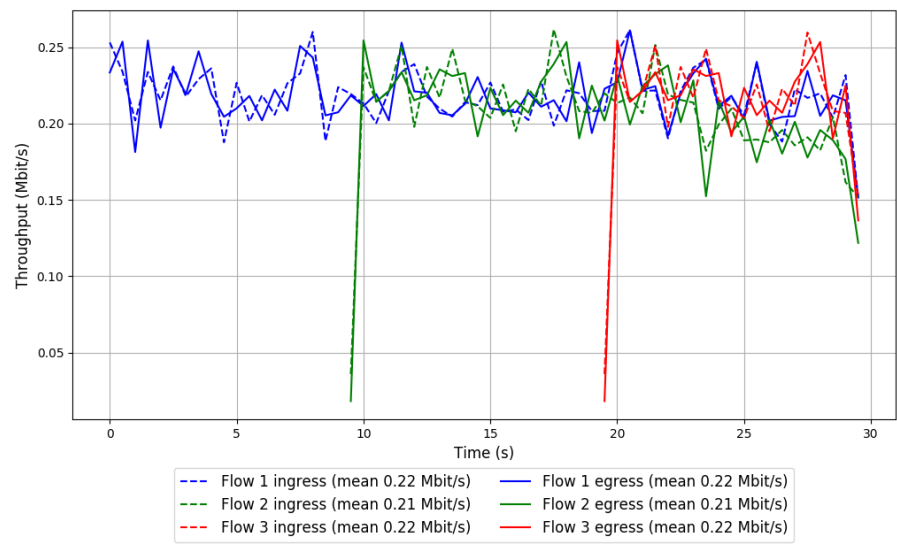
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.748 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

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

End at: 2017-11-16 09:22:46

Local clock offset: 1.928 ms

Remote clock offset: 1.301 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 23.689 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.705 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.595 ms

Loss rate: 0.20%

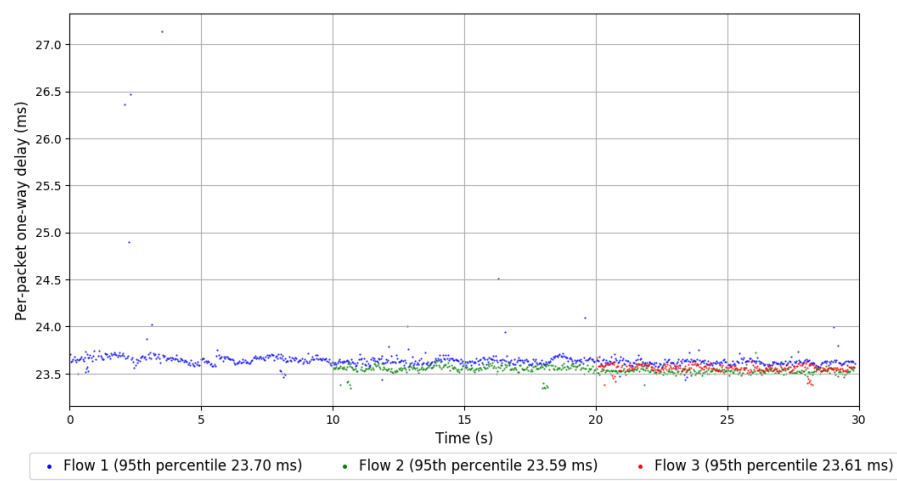
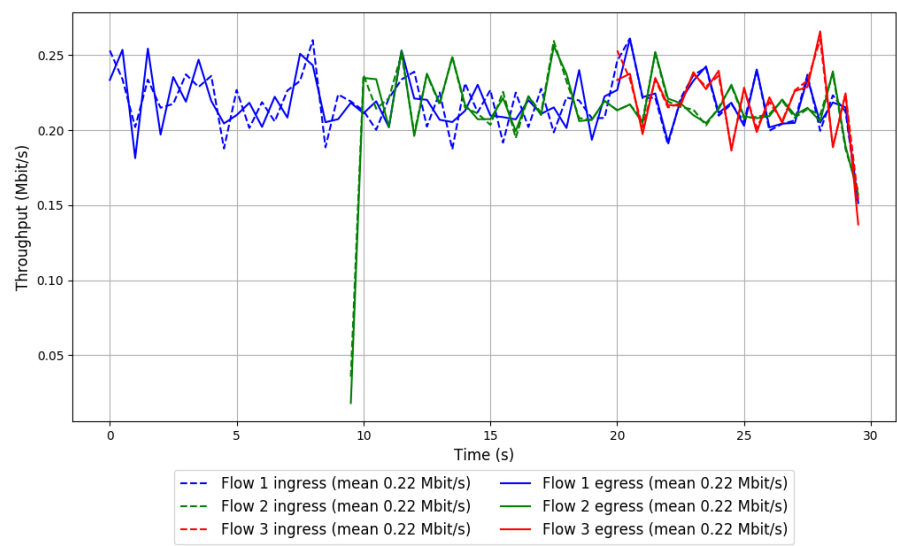
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.606 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-16 09:41:22

End at: 2017-11-16 09:41:52

Local clock offset: 1.656 ms

Remote clock offset: -0.88 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 25.618 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.593 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.618 ms

Loss rate: 0.20%

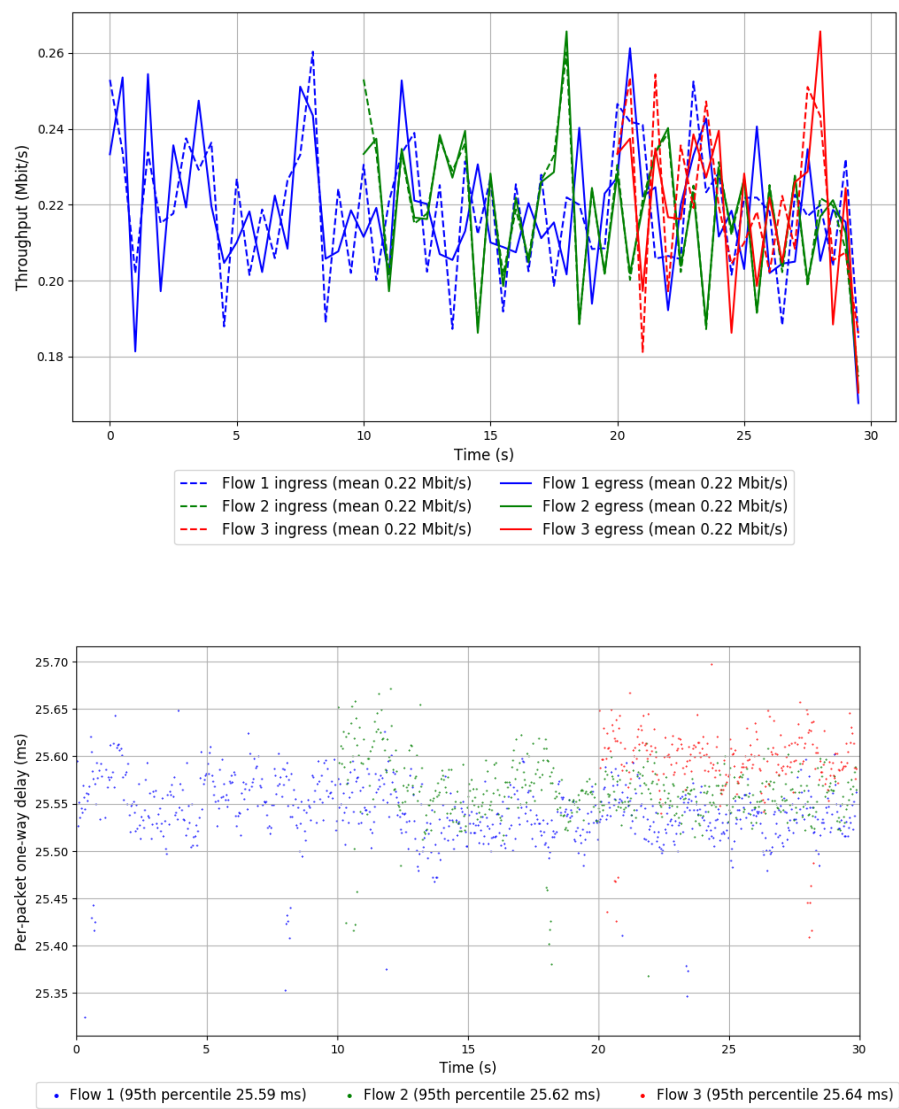
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.642 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-16 10:00:28

End at: 2017-11-16 10:00:58

Local clock offset: 1.399 ms

Remote clock offset: 1.806 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 23.184 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: 0.12%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.190 ms

Loss rate: 0.43%

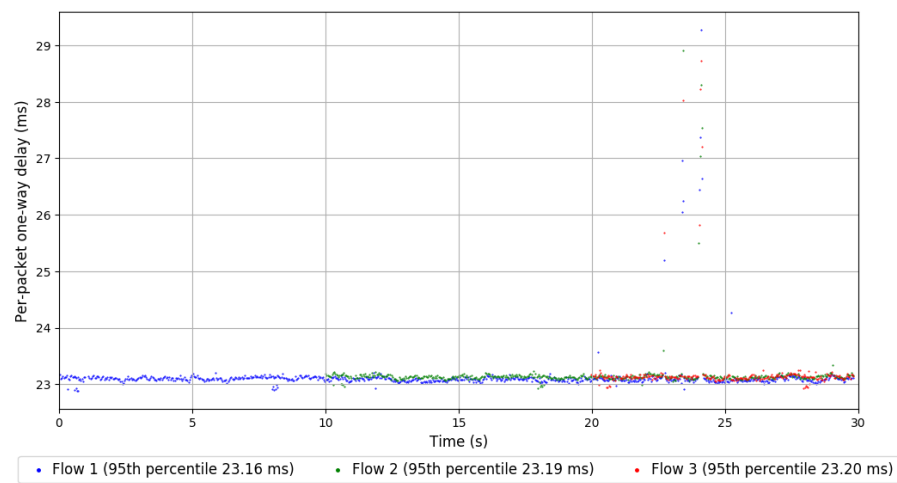
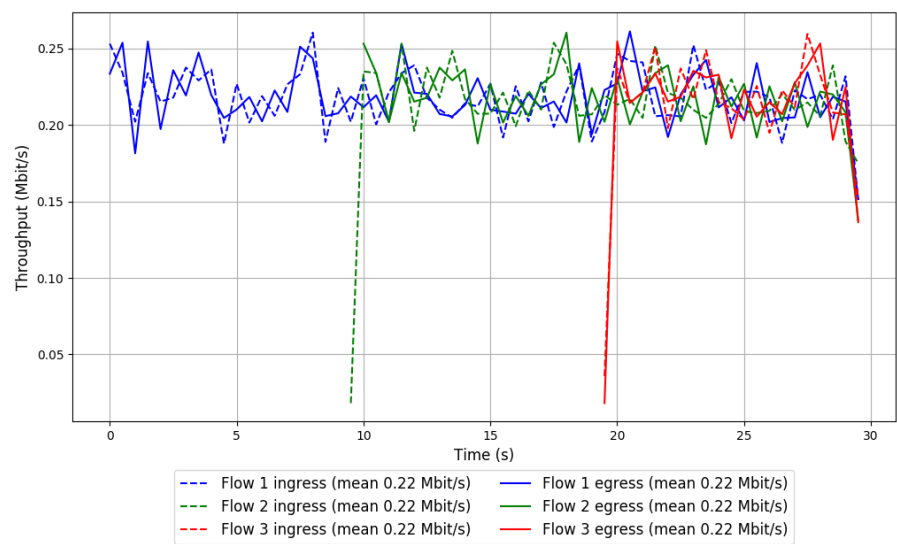
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.203 ms

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link

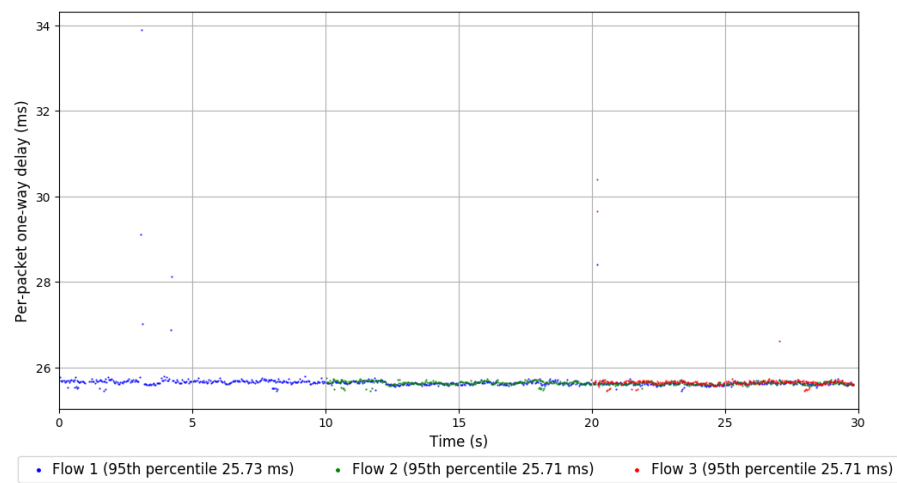
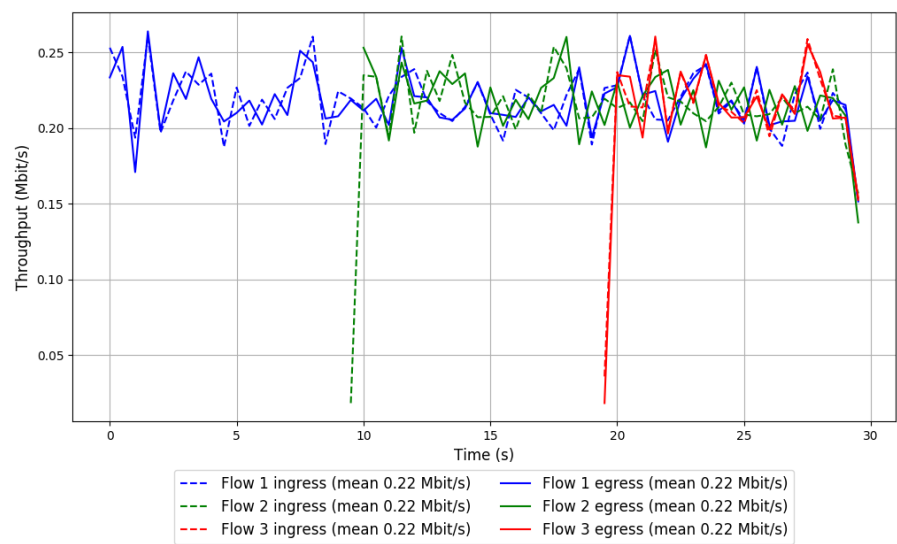


Run 10: Statistics of SReAM

Start at: 2017-11-16 10:19:37
End at: 2017-11-16 10:20:07
Local clock offset: 1.032 ms
Remote clock offset: -0.716 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 25.715 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.728 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.709 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.706 ms
Loss rate: 0.35%

Run 10: Report of SCReAM — Data Link

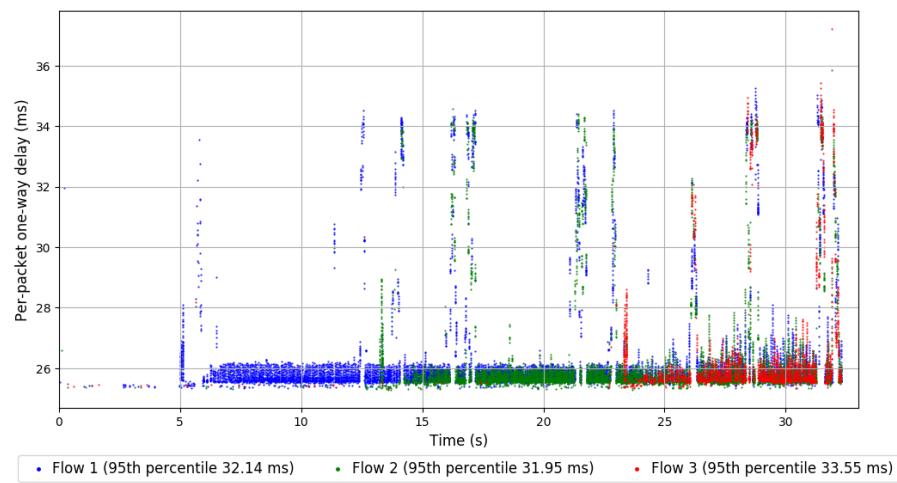
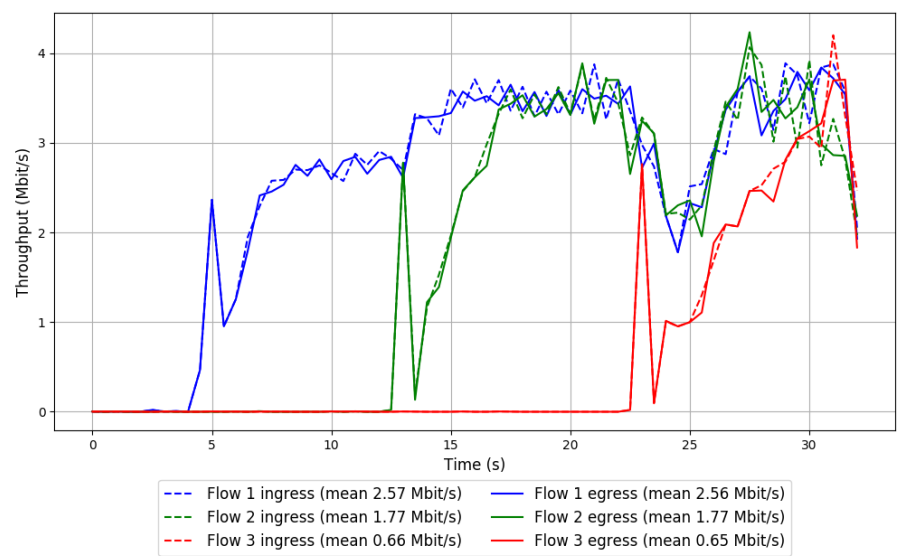


Run 1: Statistics of WebRTC media

Start at: 2017-11-16 07:22:40
End at: 2017-11-16 07:23:10
Local clock offset: 0.54 ms
Remote clock offset: -2.522 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 32.304 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 32.143 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 31.954 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 33.555 ms
Loss rate: 1.87%

Run 1: Report of WebRTC media — Data Link

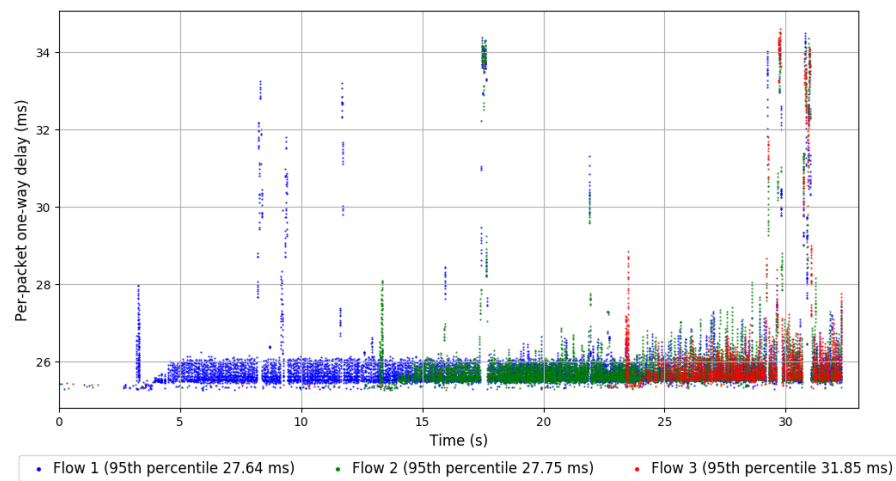
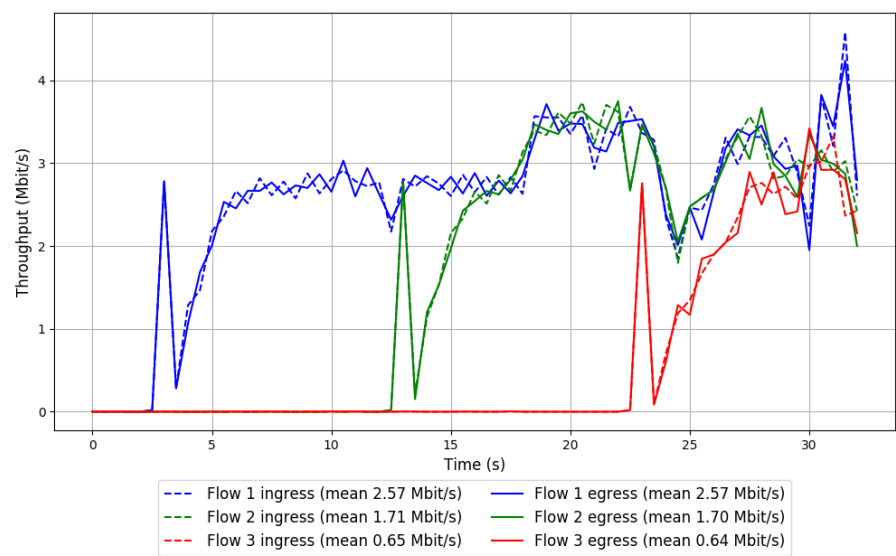


Run 2: Statistics of WebRTC media

Start at: 2017-11-16 07:41:59
End at: 2017-11-16 07:42:29
Local clock offset: 1.018 ms
Remote clock offset: -2.216 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 28.209 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 27.636 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 27.745 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 31.846 ms
Loss rate: 0.89%

Run 2: Report of WebRTC media — Data Link

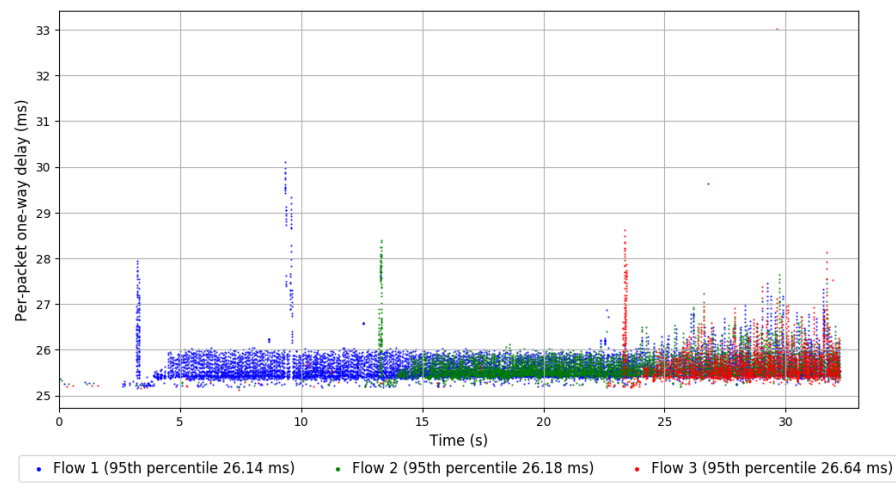
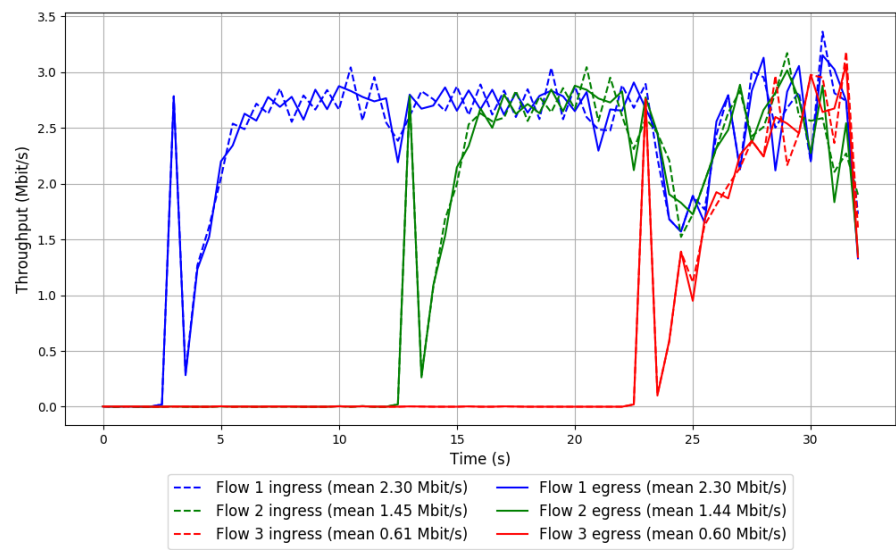


Run 3: Statistics of WebRTC media

Start at: 2017-11-16 08:01:20
End at: 2017-11-16 08:01:50
Local clock offset: 1.515 ms
Remote clock offset: -1.346 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 26.241 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 26.143 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 26.180 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 26.645 ms
Loss rate: 0.98%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-16 08:20:31

End at: 2017-11-16 08:21:01

Local clock offset: 2.053 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 25.324 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 25.149 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 26.043 ms

Loss rate: 0.02%

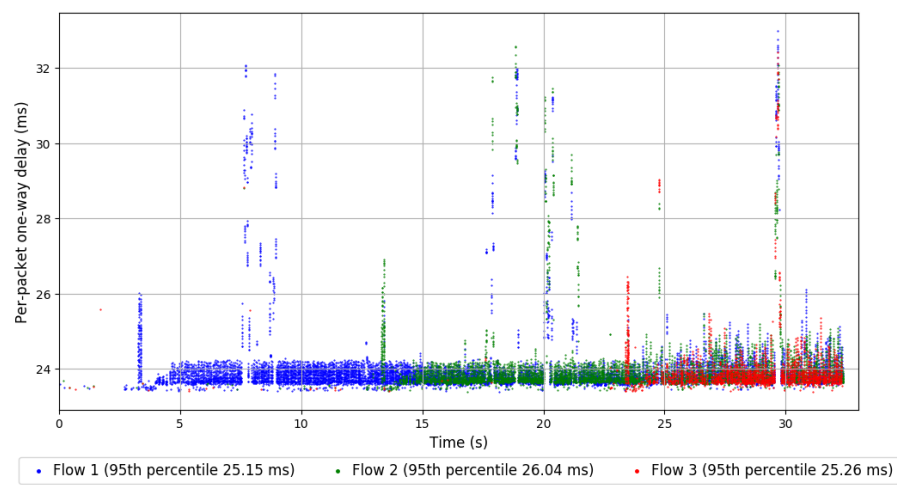
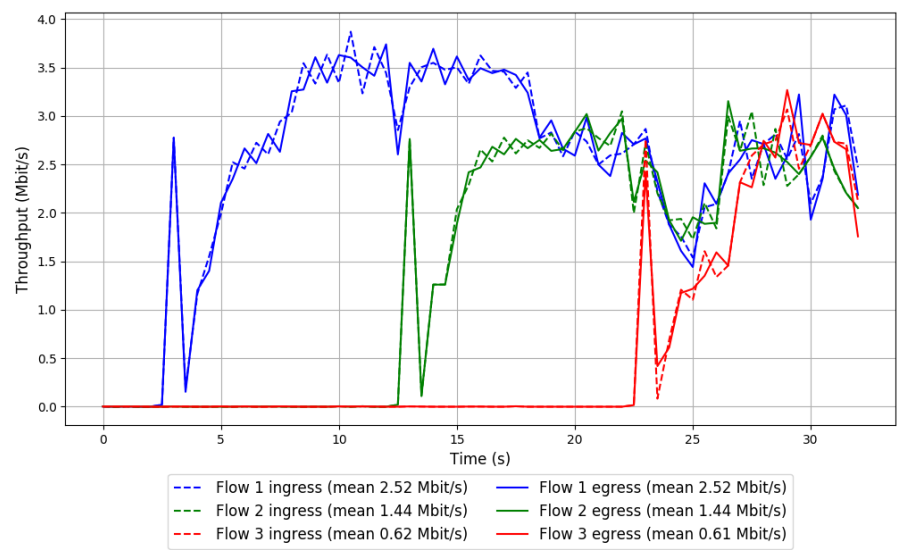
-- Flow 3:

Average throughput: 0.61 Mbit/s

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

Loss rate: 1.07%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 08:39:43

End at: 2017-11-16 08:40:13

Local clock offset: 2.585 ms

Remote clock offset: 1.861 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 24.427 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 24.264 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 1.43 Mbit/s

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

Loss rate: 0.29%

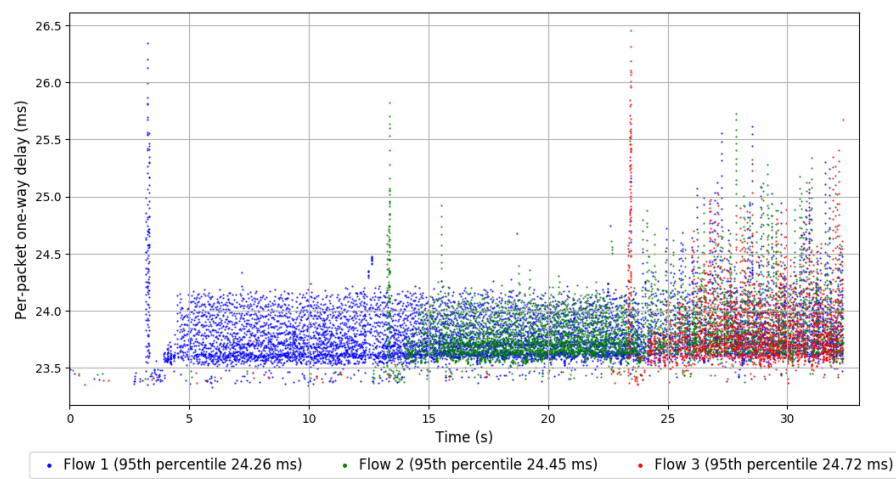
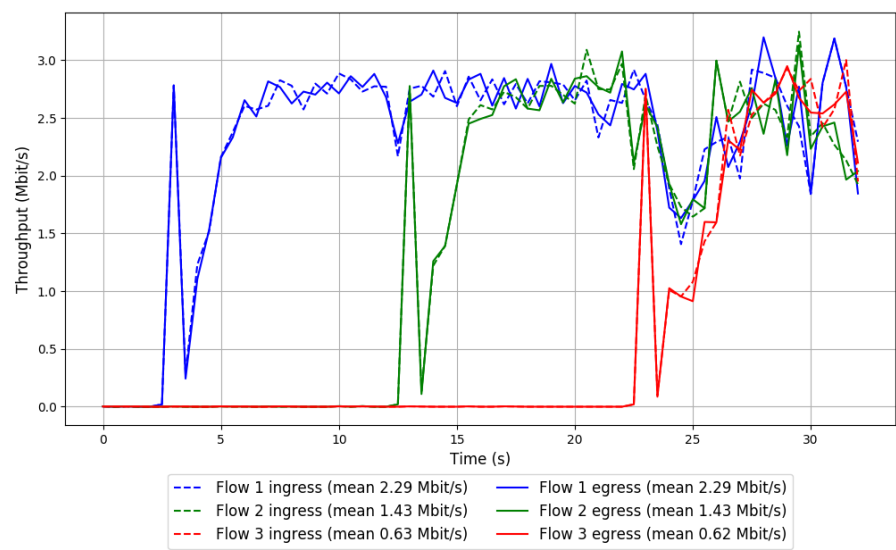
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 24.720 ms

Loss rate: 0.75%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-16 08:59:06

End at: 2017-11-16 08:59:36

Local clock offset: 2.328 ms

Remote clock offset: 2.242 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 24.198 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 24.091 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 24.117 ms

Loss rate: 0.30%

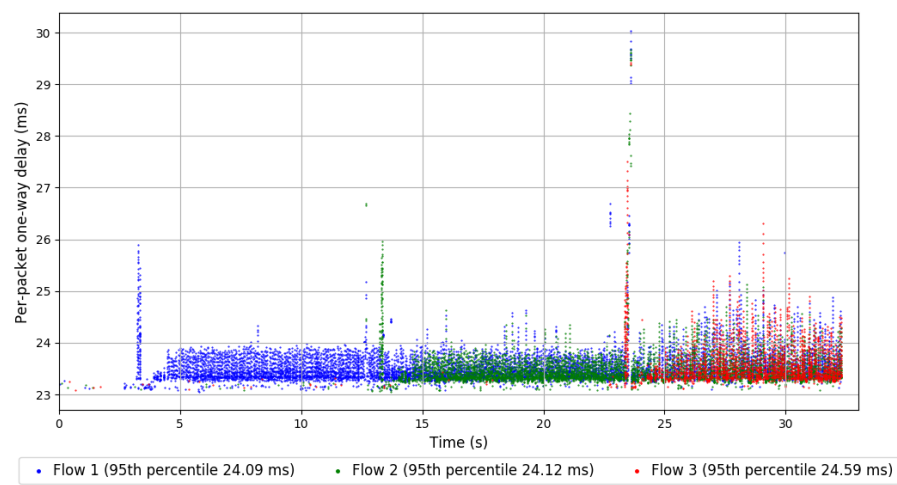
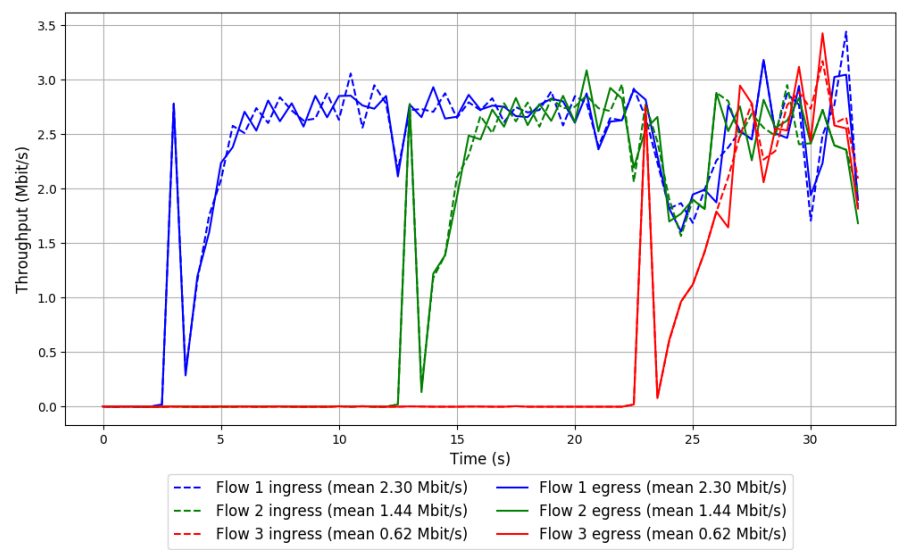
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 24.592 ms

Loss rate: 1.09%

Run 6: Report of WebRTC media — Data Link

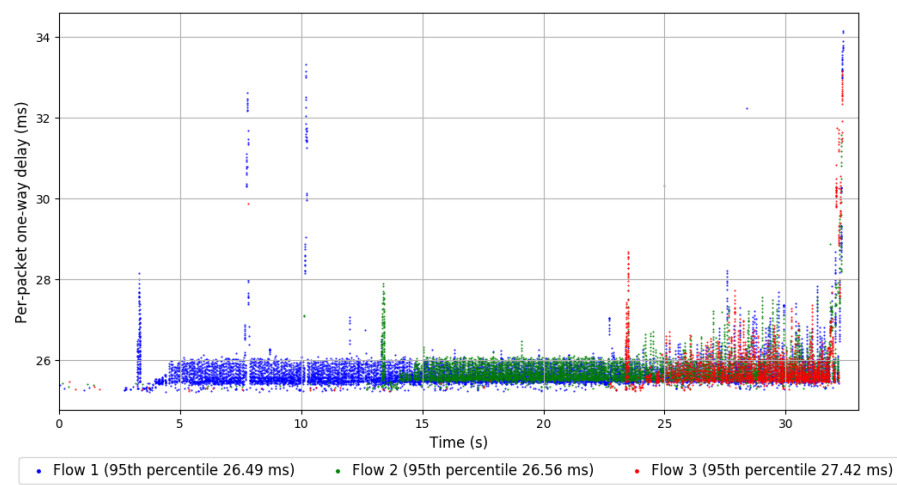
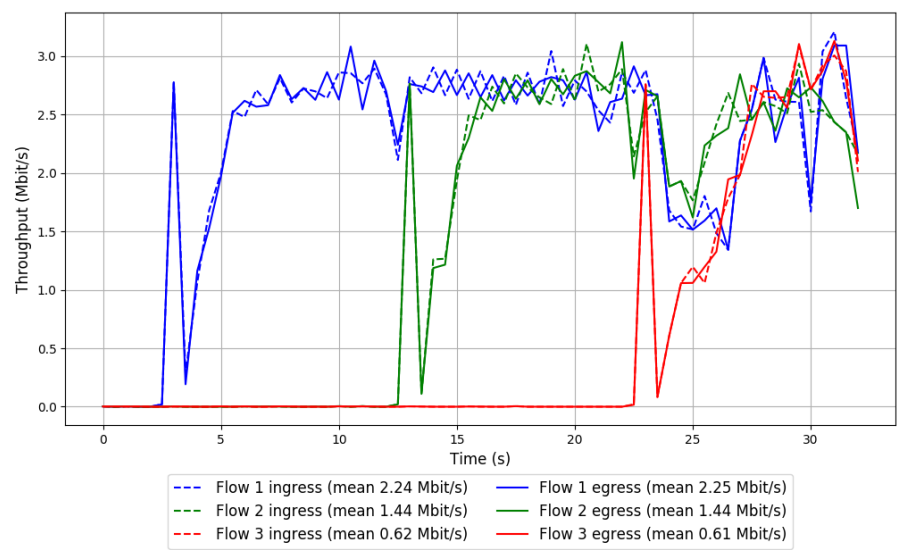


Run 7: Statistics of WebRTC media

Start at: 2017-11-16 09:18:14
End at: 2017-11-16 09:18:44
Local clock offset: 1.861 ms
Remote clock offset: -0.593 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 26.634 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 26.487 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 26.557 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 27.424 ms
Loss rate: 0.81%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 09:37:21

End at: 2017-11-16 09:37:51

Local clock offset: 1.772 ms

Remote clock offset: 1.495 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 24.383 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 24.246 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 24.459 ms

Loss rate: 0.46%

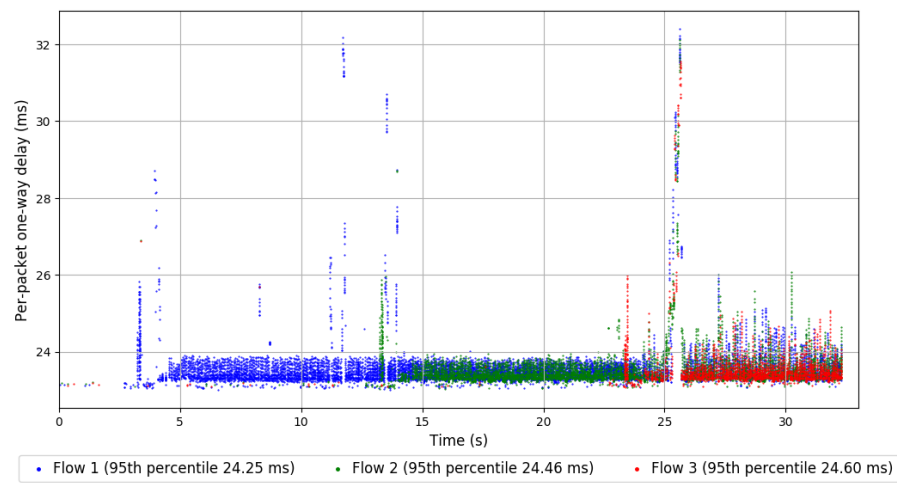
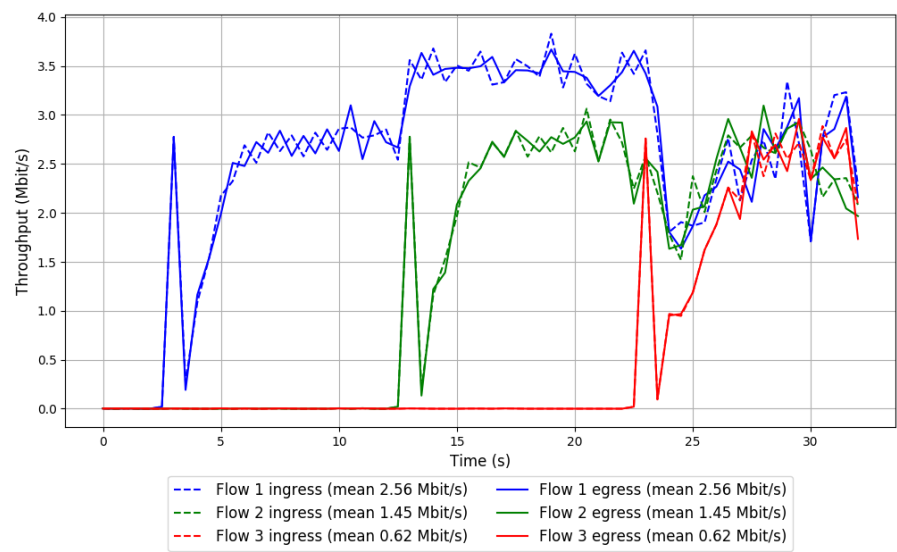
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 24.604 ms

Loss rate: 0.87%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 09:56:27

End at: 2017-11-16 09:56:57

Local clock offset: 1.569 ms

Remote clock offset: 1.832 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 24.000 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 2.30 Mbit/s

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

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 23.988 ms

Loss rate: 0.33%

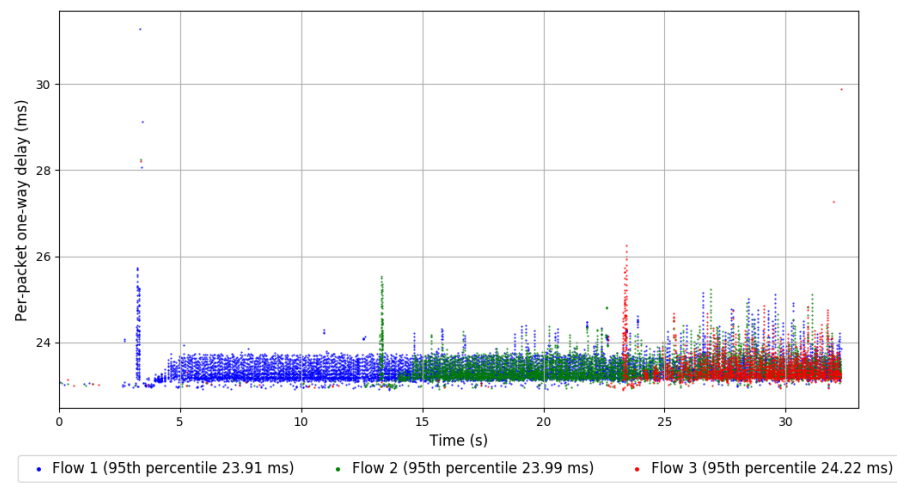
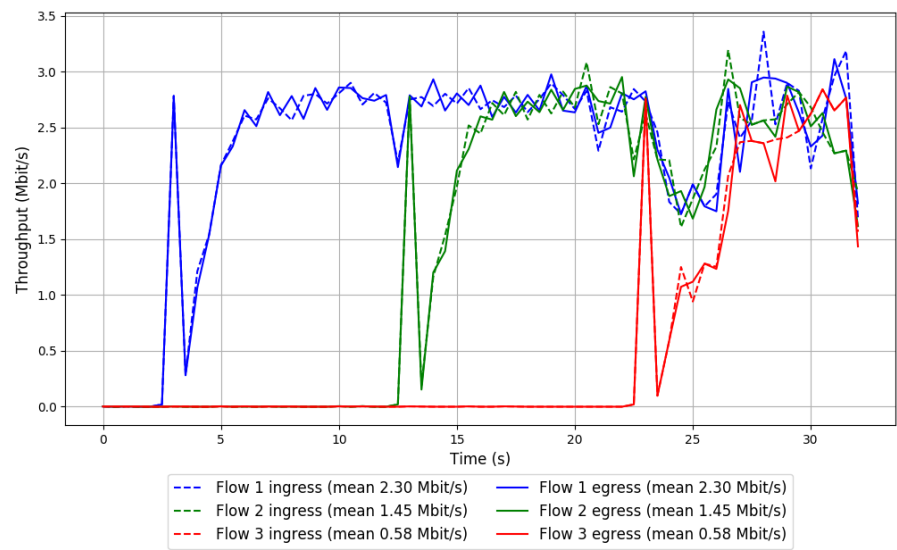
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 24.223 ms

Loss rate: 0.35%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 10:15:36

End at: 2017-11-16 10:16:06

Local clock offset: 1.077 ms

Remote clock offset: 1.535 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 24.397 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 24.295 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 24.466 ms

Loss rate: 0.47%

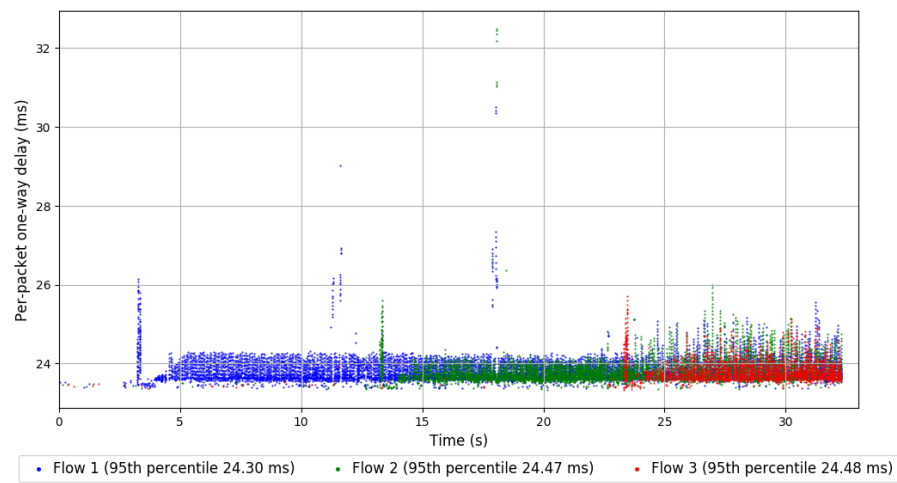
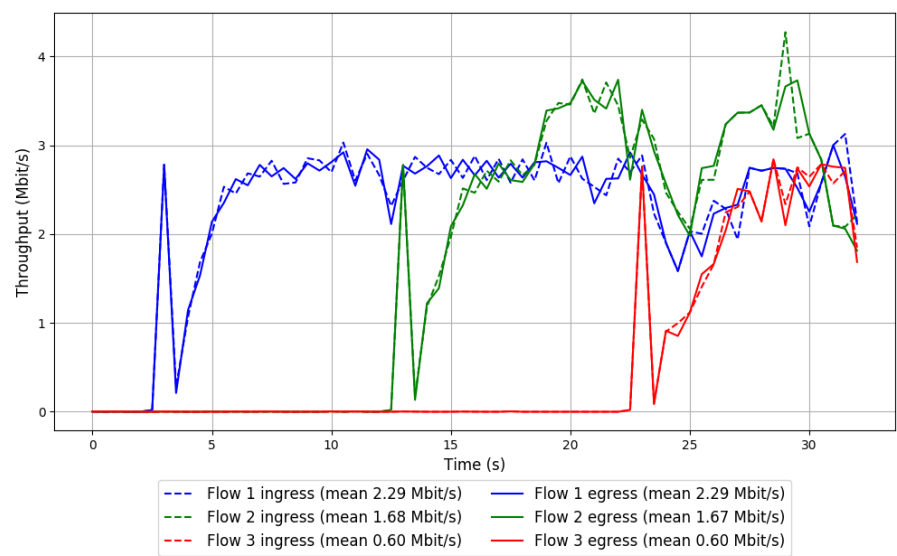
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 24.477 ms

Loss rate: 0.77%

Run 10: Report of WebRTC media — Data Link

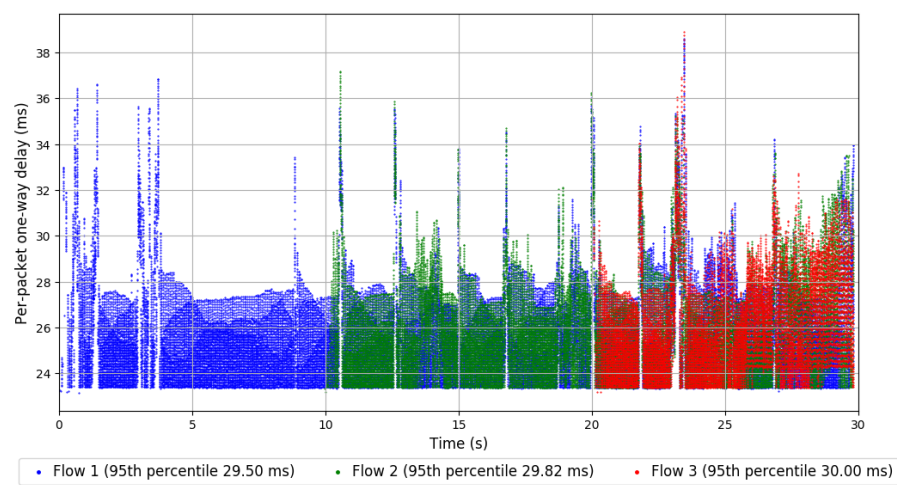
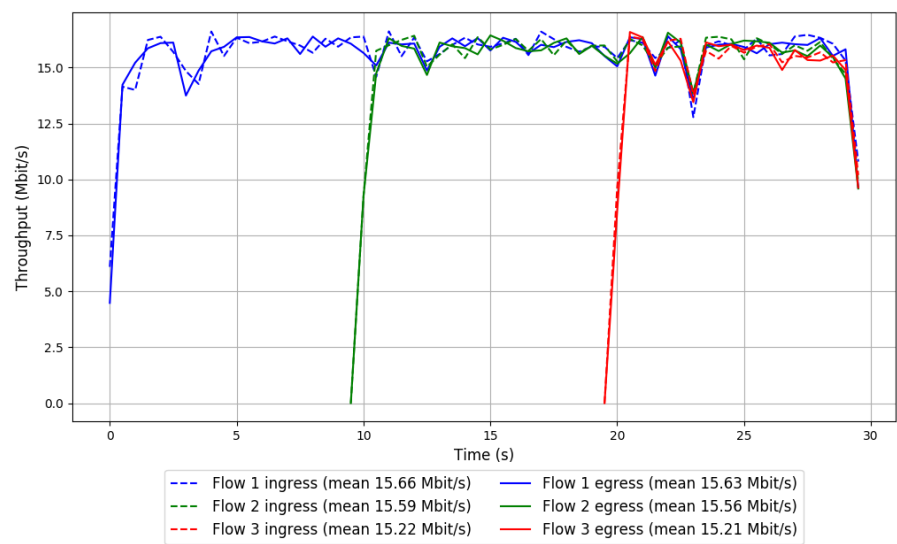


Run 1: Statistics of Sprout

Start at: 2017-11-16 07:19:53
End at: 2017-11-16 07:20:23
Local clock offset: 0.562 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 29.754 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 29.501 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 29.822 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 30.004 ms
Loss rate: 0.70%

Run 1: Report of Sprout — Data Link

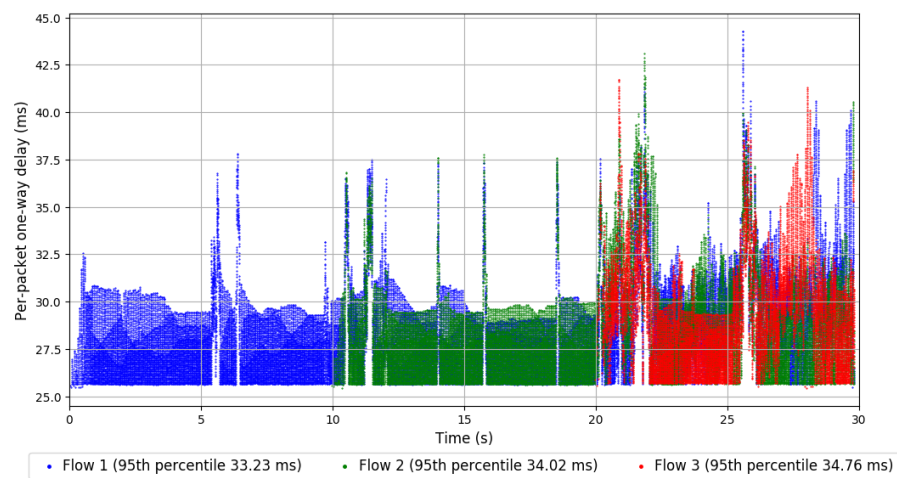
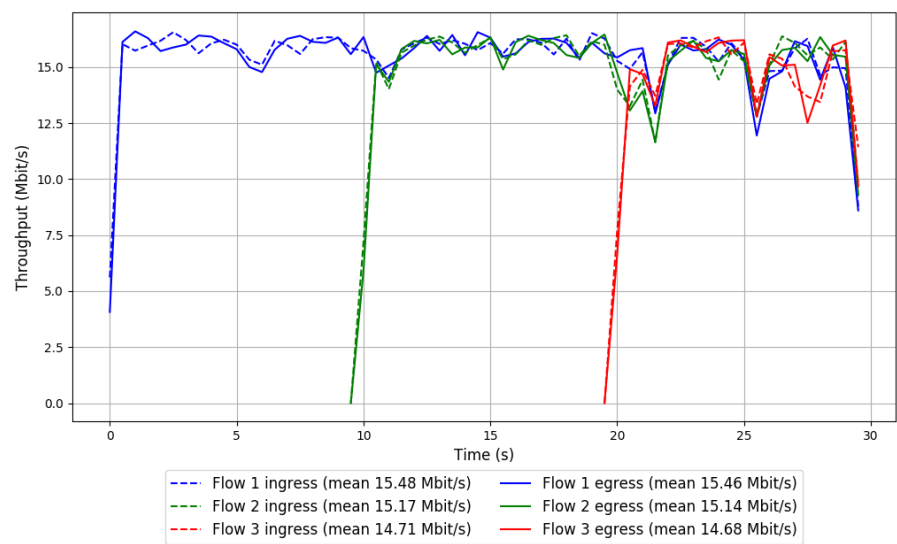


Run 2: Statistics of Sprout

Start at: 2017-11-16 07:39:20
End at: 2017-11-16 07:39:50
Local clock offset: 0.936 ms
Remote clock offset: -2.459 ms

Below is generated by plot.py at 2017-11-16 13:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.38 Mbit/s
95th percentile per-packet one-way delay: 33.868 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 33.228 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 15.14 Mbit/s
95th percentile per-packet one-way delay: 34.018 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 34.761 ms
Loss rate: 0.76%

Run 2: Report of Sprout — Data Link

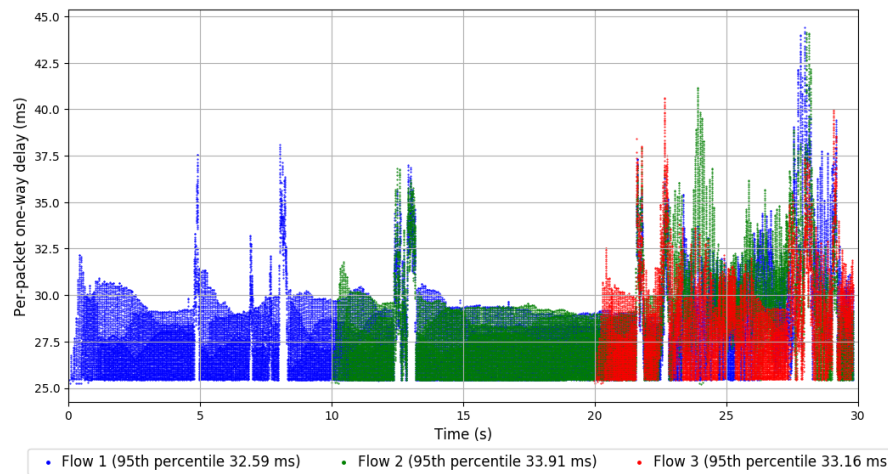
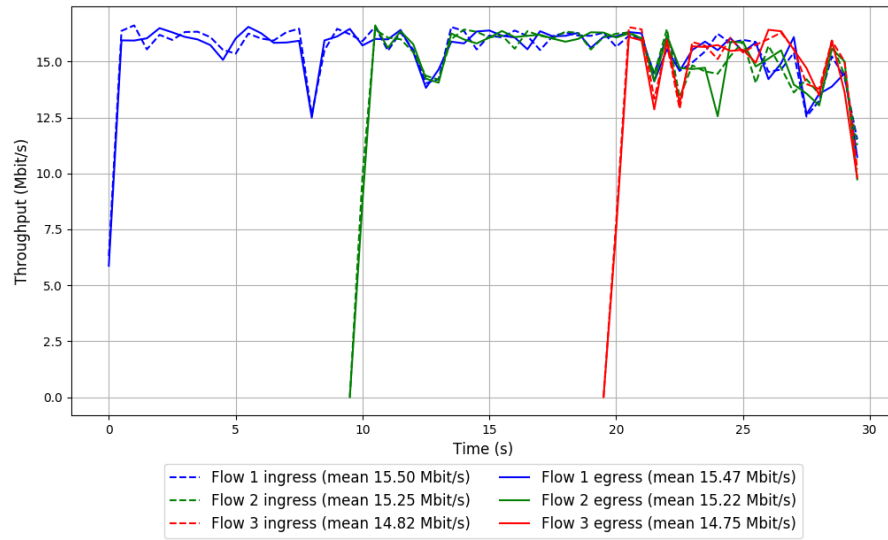


Run 3: Statistics of Sprout

Start at: 2017-11-16 07:58:36
End at: 2017-11-16 07:59:06
Local clock offset: 1.524 ms
Remote clock offset: -1.443 ms

```
# Below is generated by plot.py at 2017-11-16 13:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.49 Mbit/s
95th percentile per-packet one-way delay: 33.267 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 15.47 Mbit/s
95th percentile per-packet one-way delay: 32.594 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 33.913 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 33.160 ms
Loss rate: 1.05%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 08:17:51

End at: 2017-11-16 08:18:21

Local clock offset: 2.075 ms

Remote clock offset: 1.218 ms

Below is generated by plot.py at 2017-11-16 13:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 29.259 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 29.142 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 28.669 ms

Loss rate: 0.30%

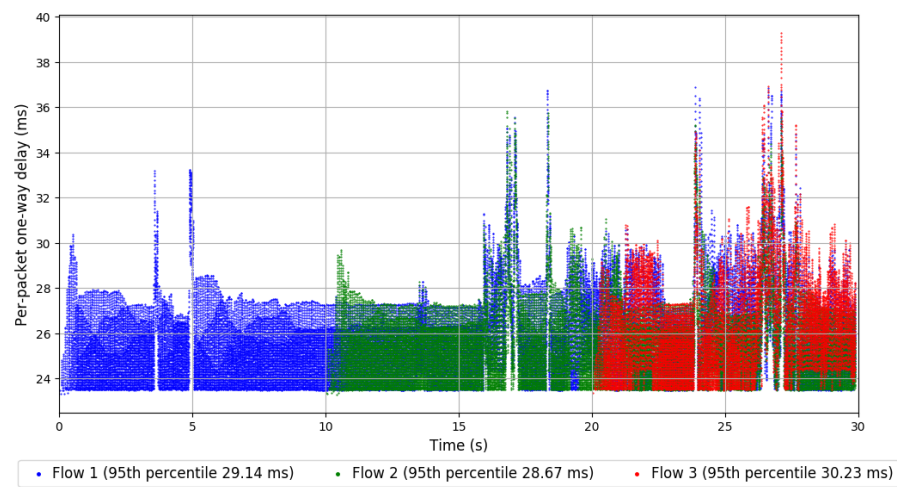
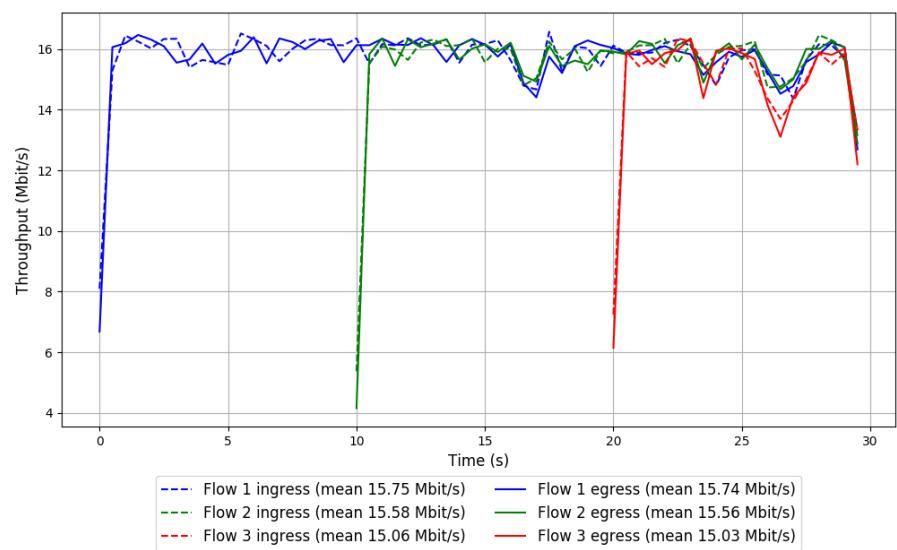
-- Flow 3:

Average throughput: 15.03 Mbit/s

95th percentile per-packet one-way delay: 30.233 ms

Loss rate: 0.64%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-16 08:37:02

End at: 2017-11-16 08:37:32

Local clock offset: 2.573 ms

Remote clock offset: 1.682 ms

Below is generated by plot.py at 2017-11-16 13:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 27.711 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 27.452 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 28.339 ms

Loss rate: 0.31%

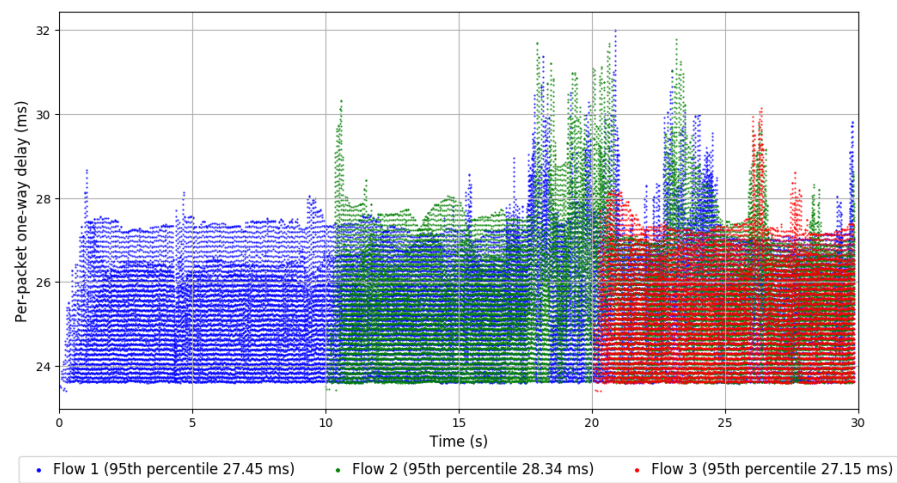
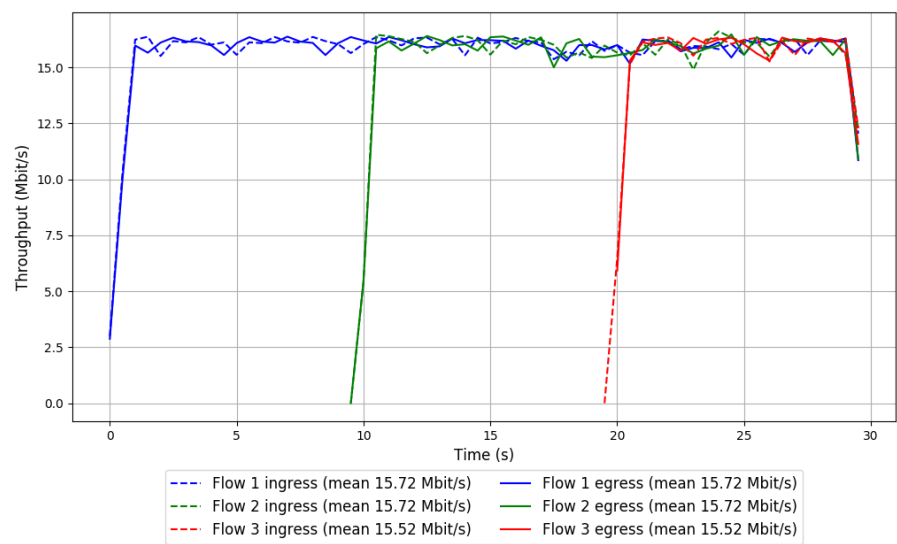
-- Flow 3:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 27.147 ms

Loss rate: 0.63%

Run 5: Report of Sprout — Data Link

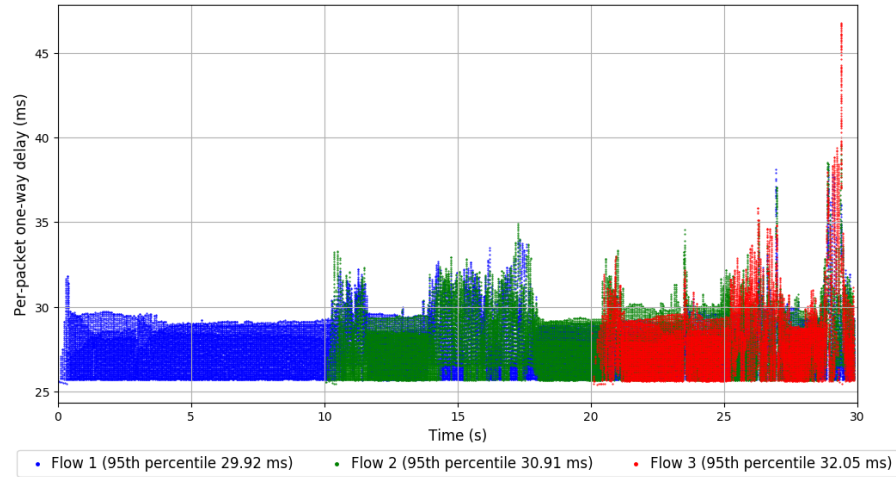
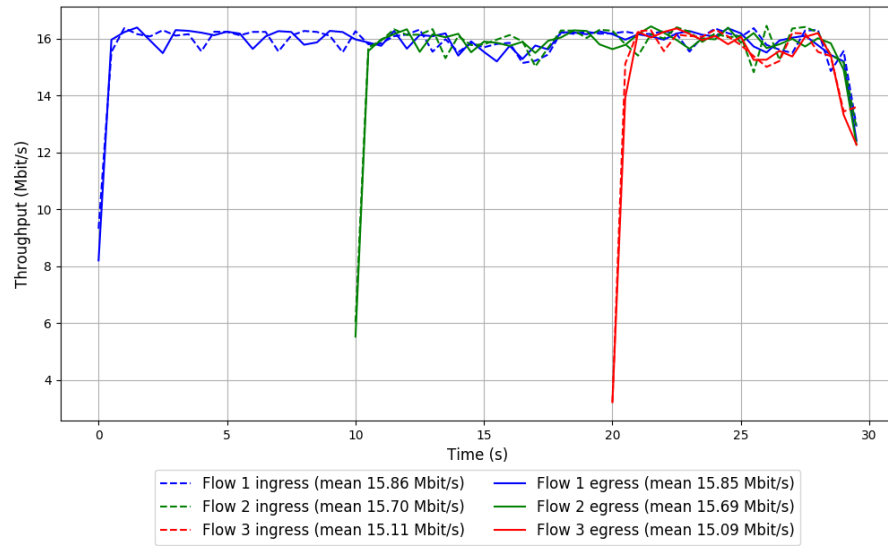


Run 6: Statistics of Sprout

Start at: 2017-11-16 08:56:25
End at: 2017-11-16 08:56:55
Local clock offset: 2.347 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2017-11-16 13:55:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 30.667 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 15.85 Mbit/s
95th percentile per-packet one-way delay: 29.918 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 15.69 Mbit/s
95th percentile per-packet one-way delay: 30.909 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 32.051 ms
Loss rate: 0.69%

Run 6: Report of Sprout — Data Link

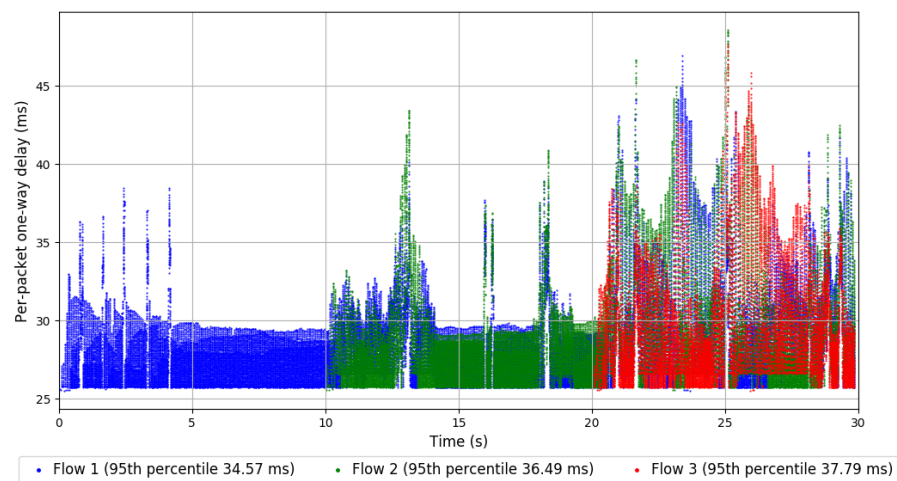
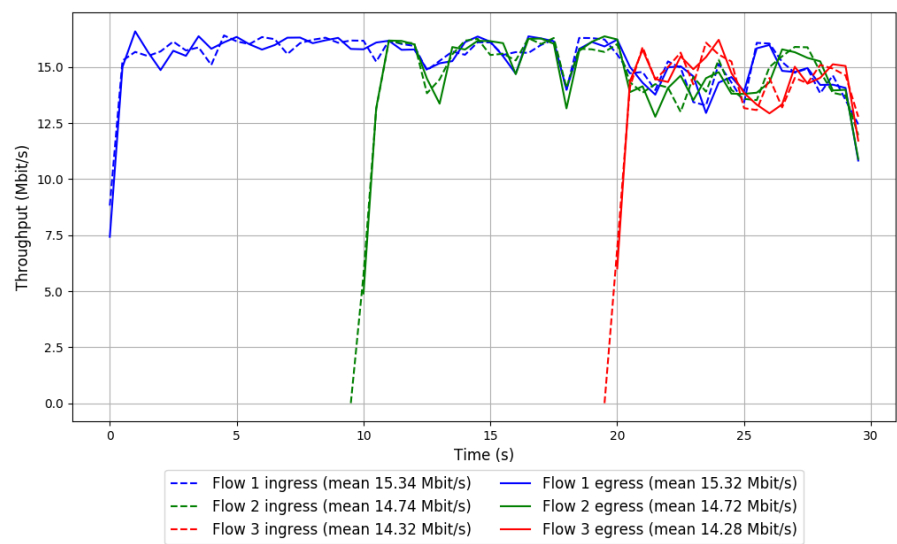


Run 7: Statistics of Sprout

Start at: 2017-11-16 09:15:33
End at: 2017-11-16 09:16:03
Local clock offset: 1.906 ms
Remote clock offset: -0.721 ms

Below is generated by plot.py at 2017-11-16 13:55:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.82 Mbit/s
95th percentile per-packet one-way delay: 35.977 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 15.32 Mbit/s
95th percentile per-packet one-way delay: 34.569 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 36.495 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 14.28 Mbit/s
95th percentile per-packet one-way delay: 37.787 ms
Loss rate: 0.87%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 09:34:40

End at: 2017-11-16 09:35:10

Local clock offset: 1.809 ms

Remote clock offset: 1.621 ms

Below is generated by plot.py at 2017-11-16 13:55:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 28.911 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 15.84 Mbit/s

95th percentile per-packet one-way delay: 27.765 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 29.088 ms

Loss rate: 0.31%

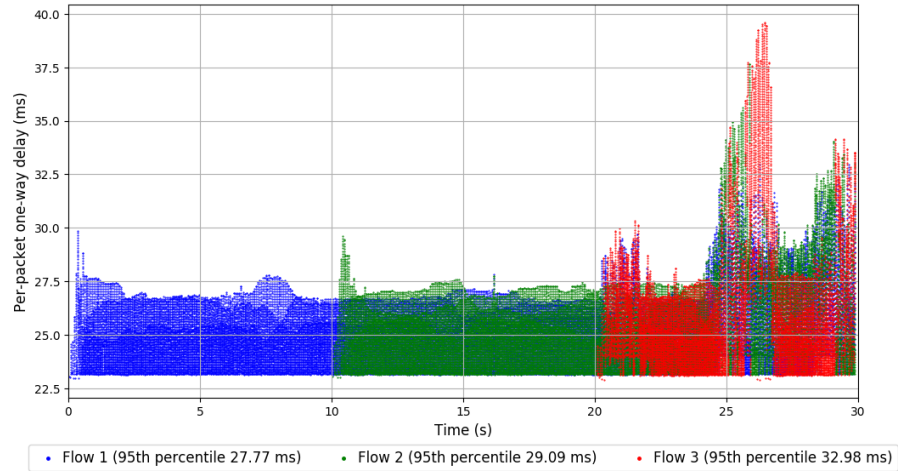
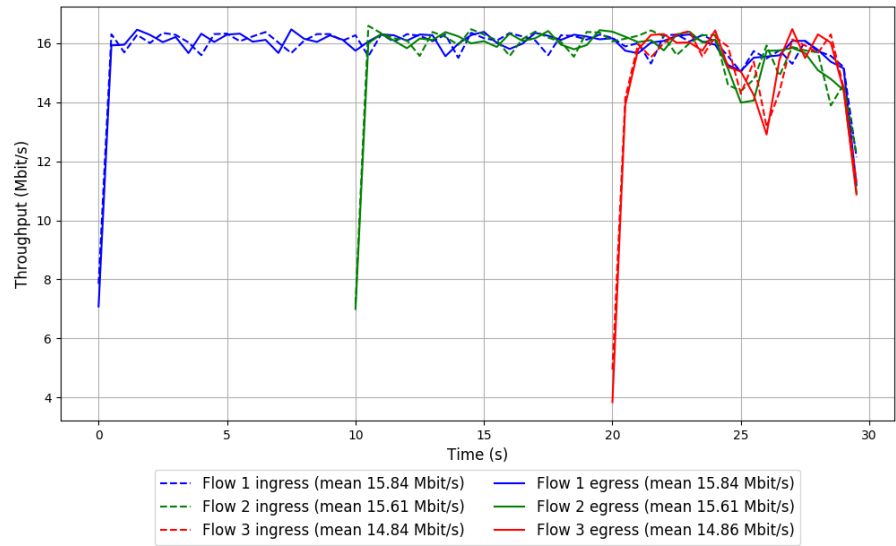
-- Flow 3:

Average throughput: 14.86 Mbit/s

95th percentile per-packet one-way delay: 32.981 ms

Loss rate: 0.39%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 09:53:46

End at: 2017-11-16 09:54:16

Local clock offset: 1.507 ms

Remote clock offset: 1.286 ms

Below is generated by plot.py at 2017-11-16 13:55:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 30.040 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 29.181 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 28.130 ms

Loss rate: 0.23%

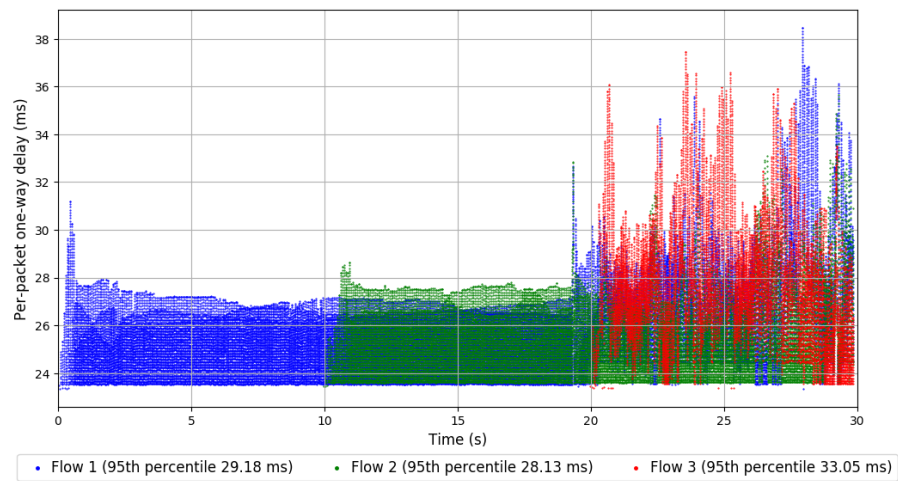
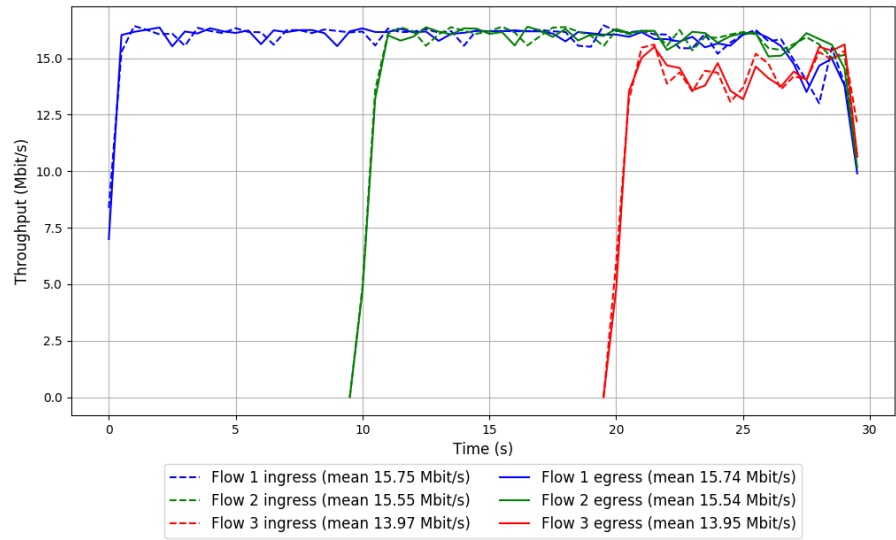
-- Flow 3:

Average throughput: 13.95 Mbit/s

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

Loss rate: 0.70%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 10:12:54

End at: 2017-11-16 10:13:24

Local clock offset: 1.141 ms

Remote clock offset: 2.118 ms

Below is generated by plot.py at 2017-11-16 13:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 27.863 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 27.509 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 27.404 ms

Loss rate: 0.38%

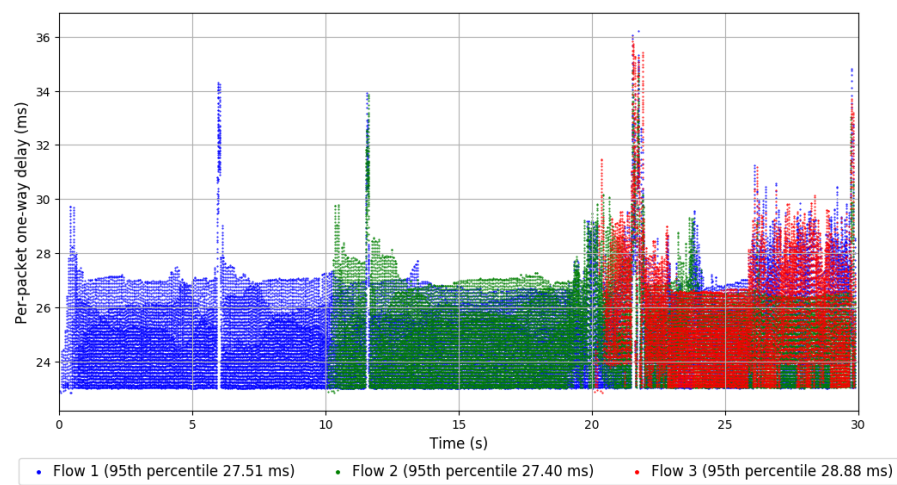
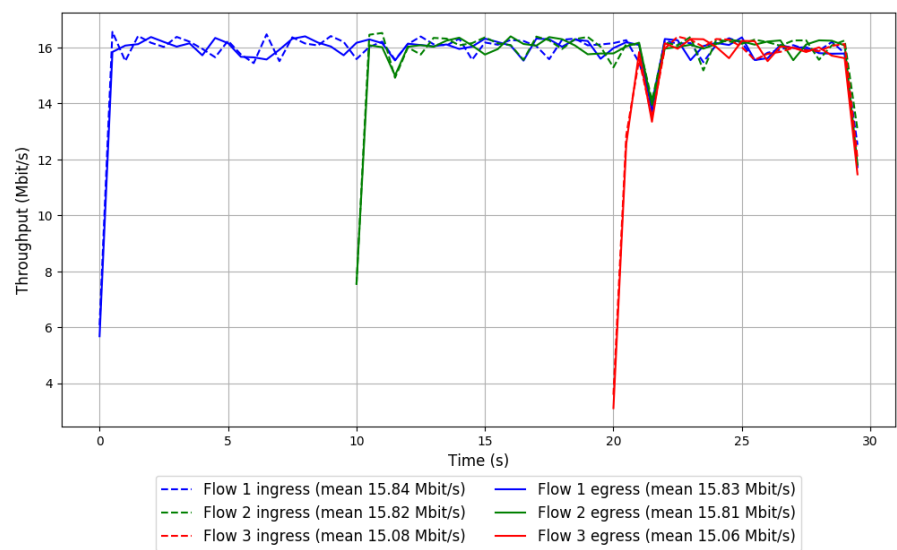
-- Flow 3:

Average throughput: 15.06 Mbit/s

95th percentile per-packet one-way delay: 28.877 ms

Loss rate: 0.71%

Run 10: Report of Sprout — Data Link

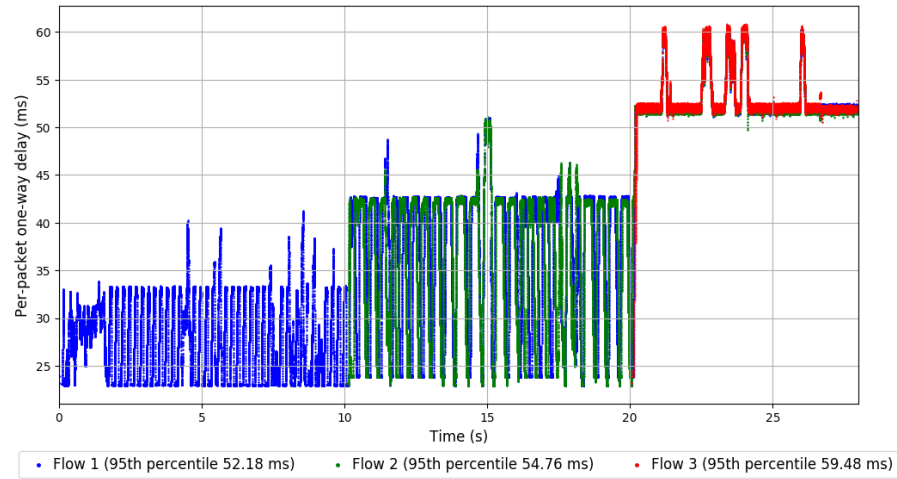
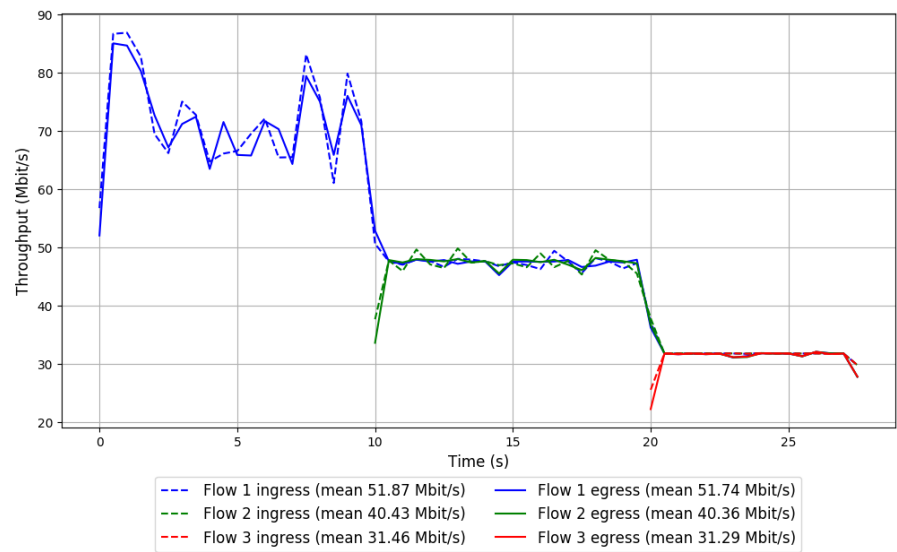


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 07:29:24
End at: 2017-11-16 07:29:54
Local clock offset: 0.6 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2017-11-16 13:56:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 52.176 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 54.762 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 59.484 ms
Loss rate: 1.39%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 07:48:39

End at: 2017-11-16 07:49:09

Local clock offset: 1.26 ms

Remote clock offset: 0.574 ms

Below is generated by plot.py at 2017-11-16 13:57:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 59.799 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 42.517 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 60.981 ms

Loss rate: 0.67%

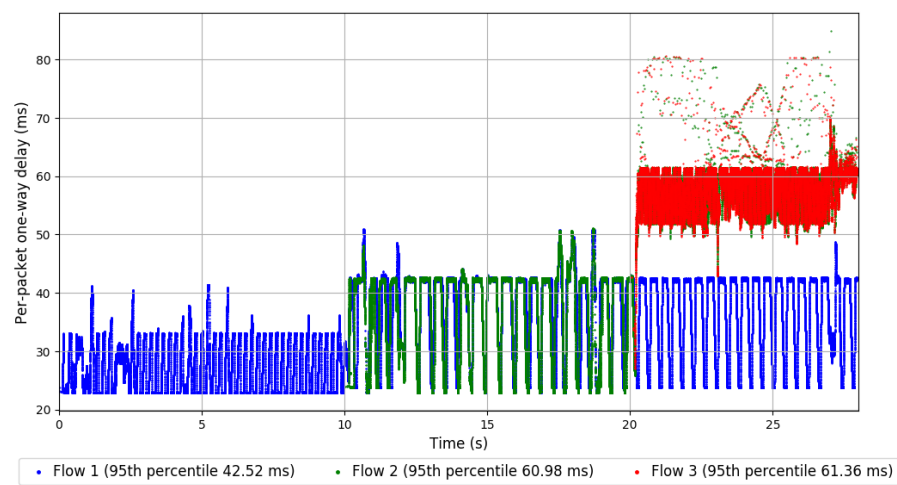
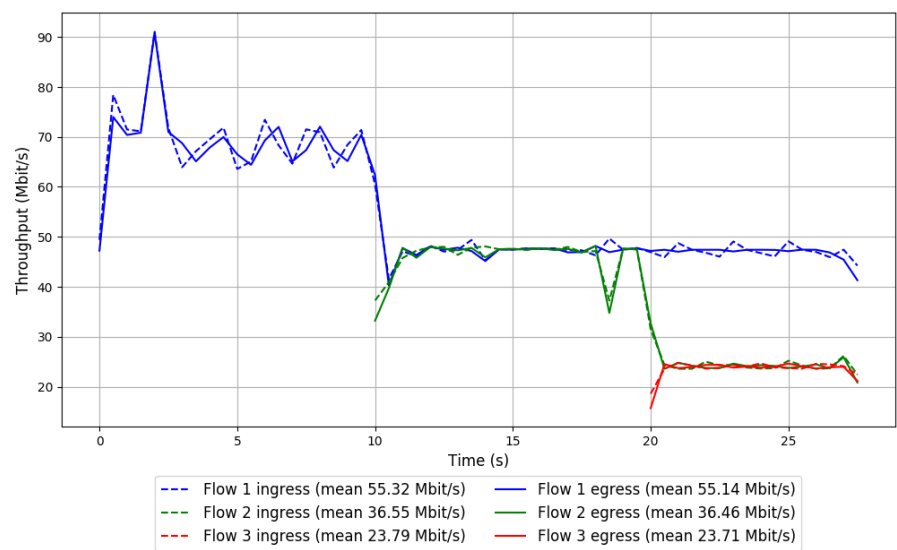
-- Flow 3:

Average throughput: 23.71 Mbit/s

95th percentile per-packet one-way delay: 61.363 ms

Loss rate: 1.25%

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

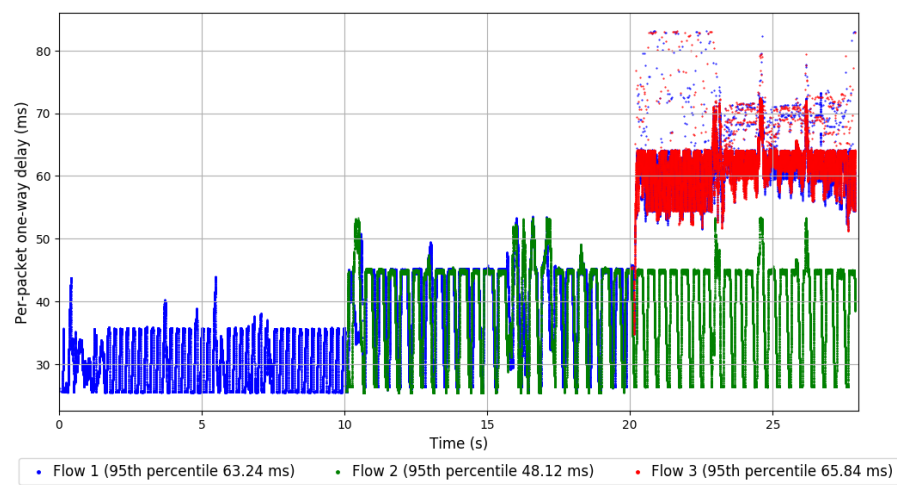
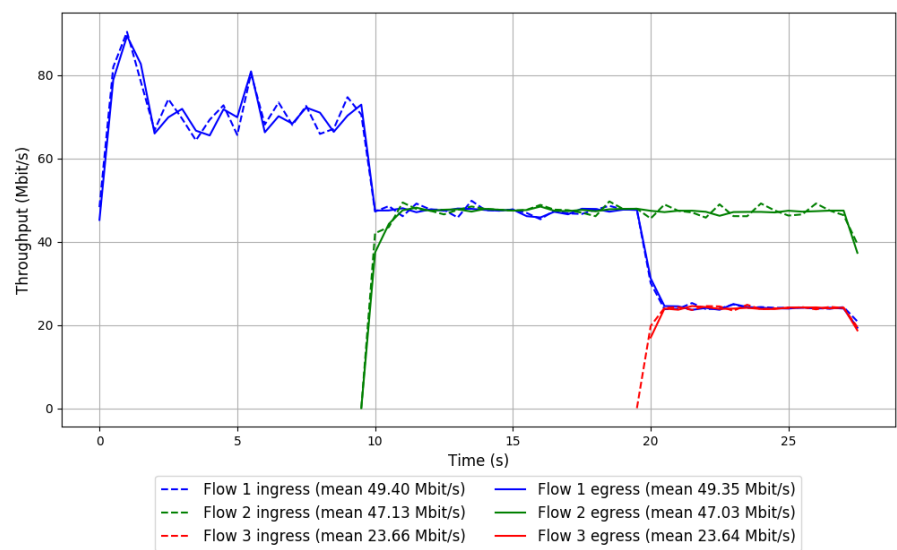


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 08:08:02
End at: 2017-11-16 08:08:32
Local clock offset: 1.804 ms
Remote clock offset: -1.187 ms

Below is generated by plot.py at 2017-11-16 13:57:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 63.523 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 49.35 Mbit/s
95th percentile per-packet one-way delay: 63.242 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 47.03 Mbit/s
95th percentile per-packet one-way delay: 48.116 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 23.64 Mbit/s
95th percentile per-packet one-way delay: 65.838 ms
Loss rate: 1.16%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 08:27:11

End at: 2017-11-16 08:27:41

Local clock offset: 2.298 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2017-11-16 13:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 52.370 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 51.62 Mbit/s

95th percentile per-packet one-way delay: 52.058 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 52.497 ms

Loss rate: 0.42%

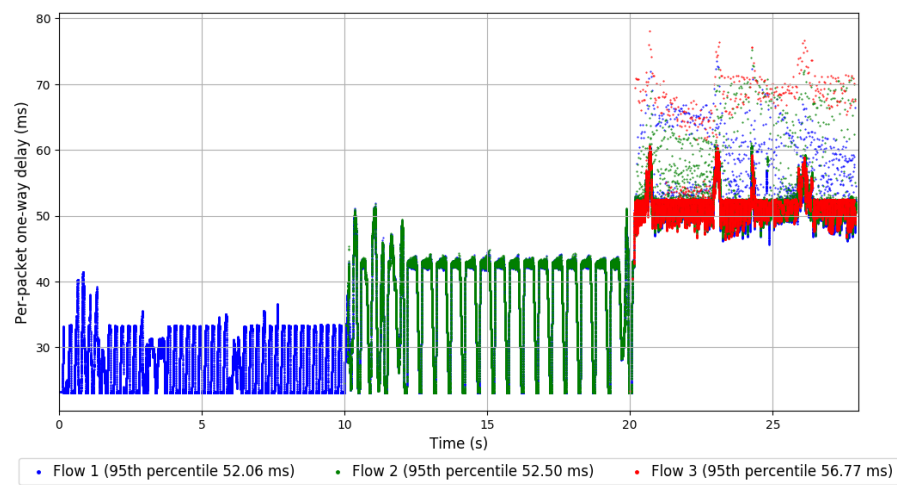
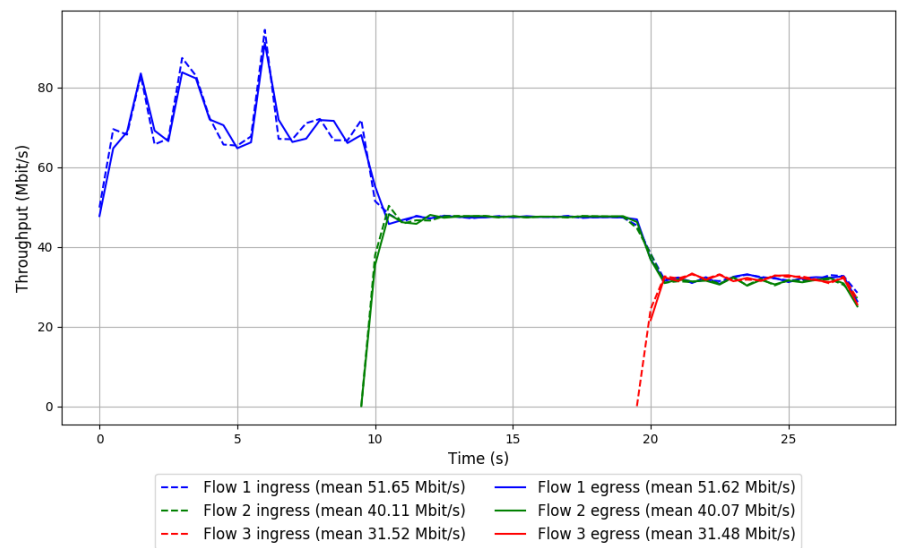
-- Flow 3:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 56.766 ms

Loss rate: 1.09%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 08:46:27

End at: 2017-11-16 08:46:57

Local clock offset: 2.546 ms

Remote clock offset: 1.854 ms

Below is generated by plot.py at 2017-11-16 13:57:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 61.760 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 43.409 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 62.224 ms

Loss rate: 0.43%

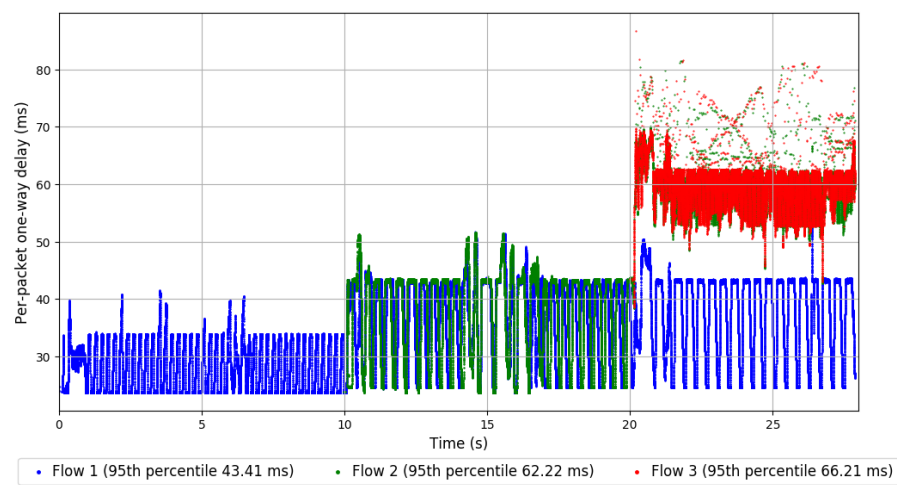
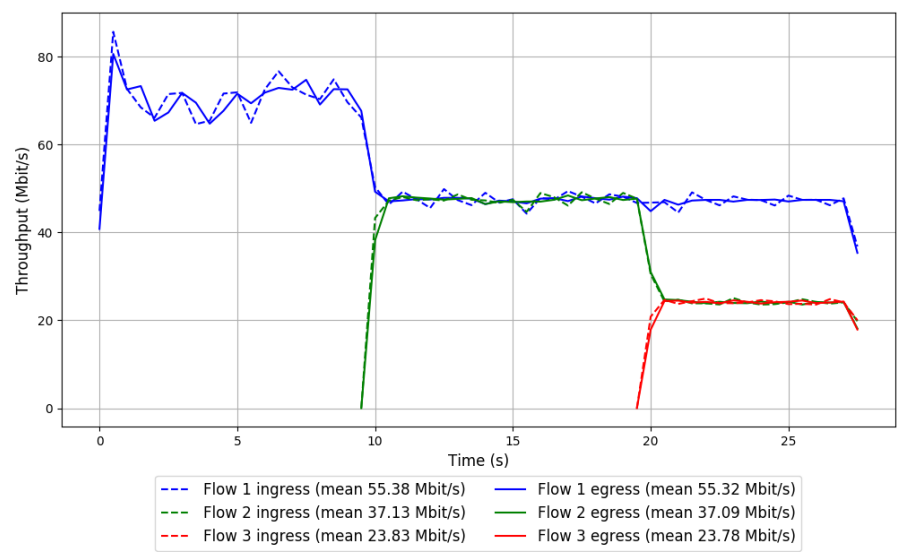
-- Flow 3:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 66.208 ms

Loss rate: 1.28%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 09:05:46

End at: 2017-11-16 09:06:16

Local clock offset: 2.17 ms

Remote clock offset: 2.128 ms

Below is generated by plot.py at 2017-11-16 13:57:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 52.395 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 50.64 Mbit/s

95th percentile per-packet one-way delay: 52.331 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 52.402 ms

Loss rate: 0.54%

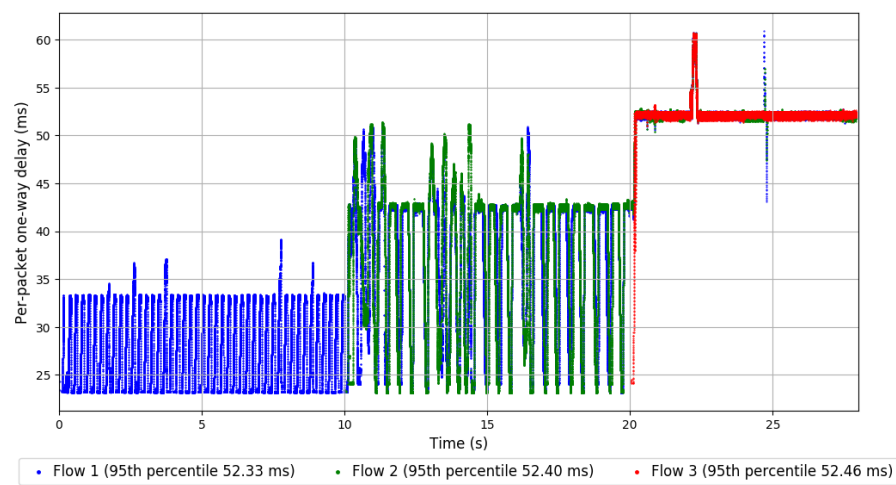
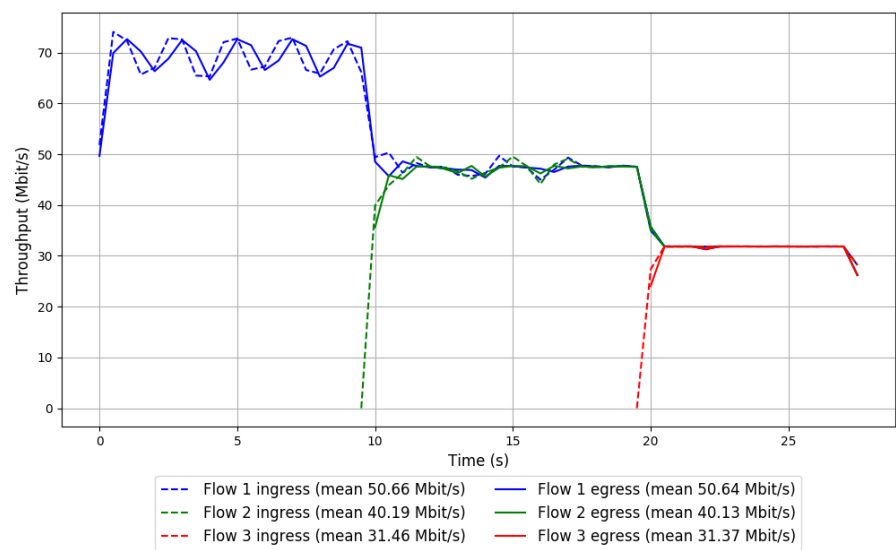
-- Flow 3:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 52.462 ms

Loss rate: 1.16%

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

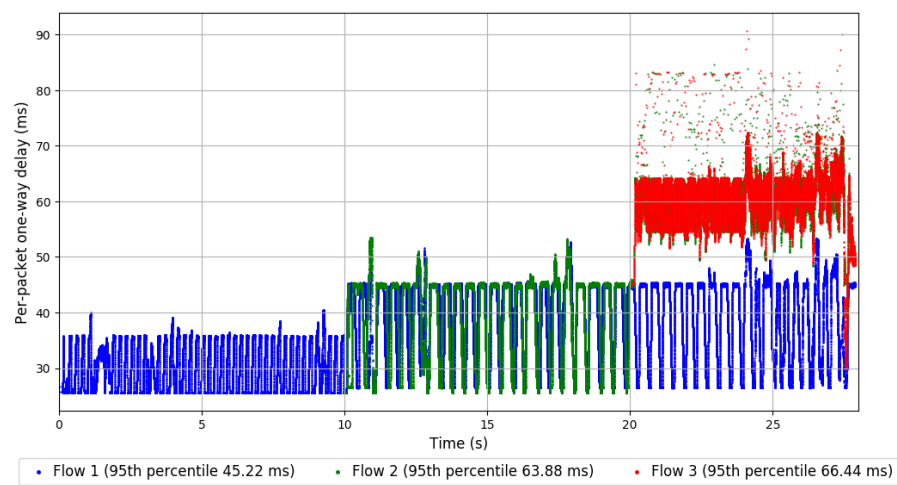
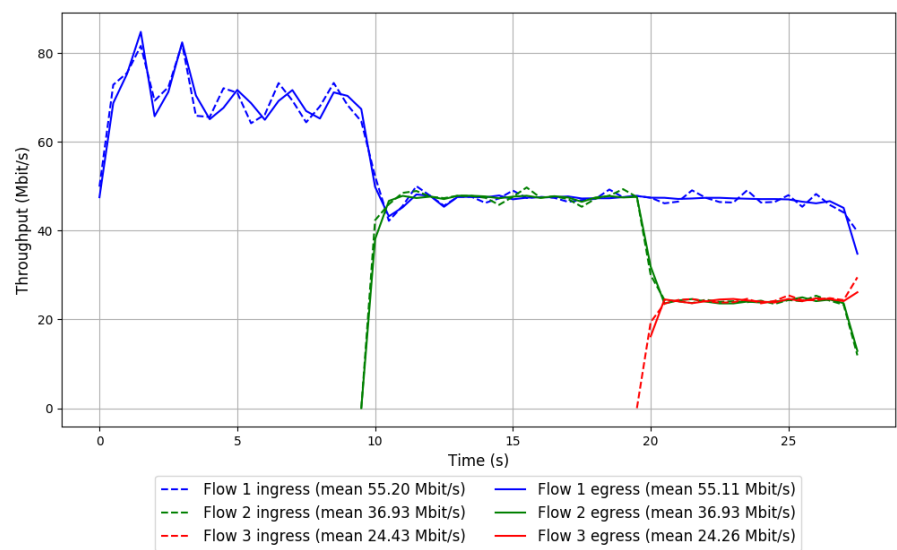


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 09:24:54
End at: 2017-11-16 09:25:24
Local clock offset: 1.811 ms
Remote clock offset: -0.874 ms

Below is generated by plot.py at 2017-11-16 13:57:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 62.719 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 55.11 Mbit/s
95th percentile per-packet one-way delay: 45.216 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 36.93 Mbit/s
95th percentile per-packet one-way delay: 63.881 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 66.439 ms
Loss rate: 1.77%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 09:44:01

End at: 2017-11-16 09:44:31

Local clock offset: 1.618 ms

Remote clock offset: 1.156 ms

Below is generated by plot.py at 2017-11-16 13:57:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 61.308 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 43.276 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 37.11 Mbit/s

95th percentile per-packet one-way delay: 61.916 ms

Loss rate: 0.40%

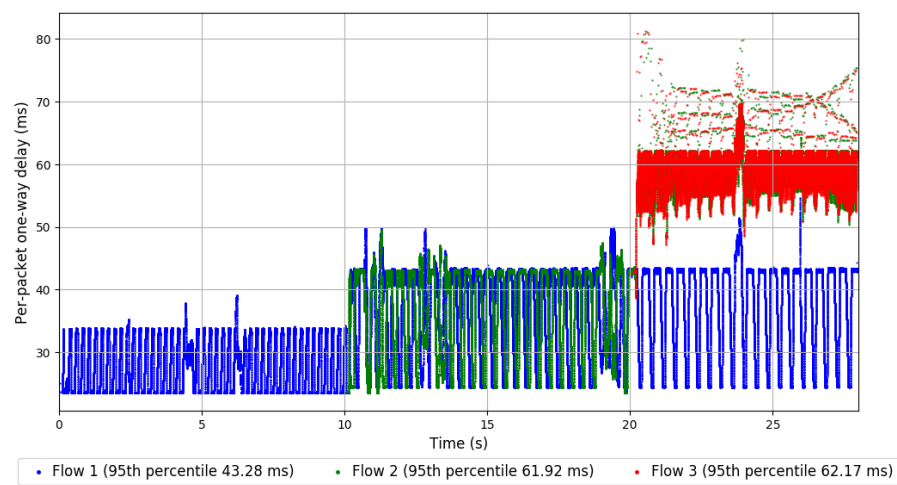
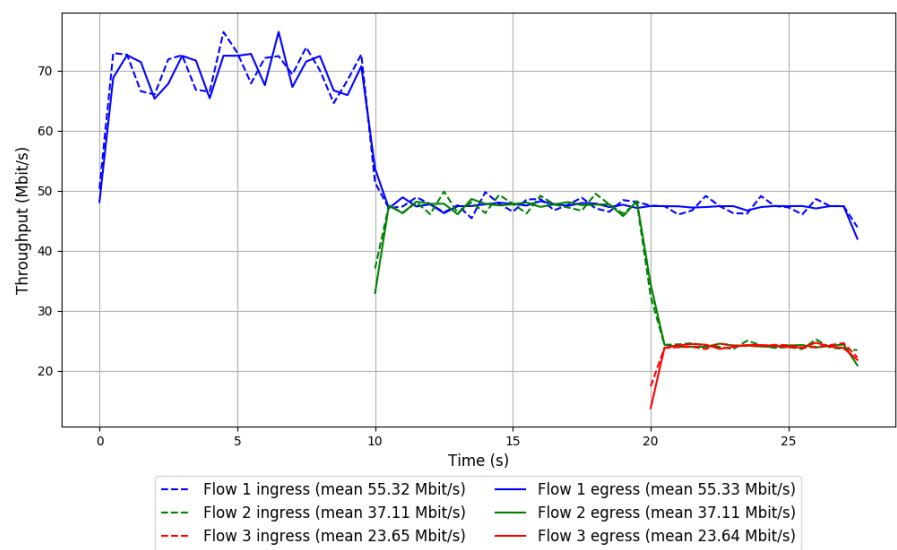
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 62.171 ms

Loss rate: 1.09%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 10:03:05

End at: 2017-11-16 10:03:35

Local clock offset: 1.349 ms

Remote clock offset: -0.75 ms

Below is generated by plot.py at 2017-11-16 13:59:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.46 Mbit/s

95th percentile per-packet one-way delay: 64.348 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 64.267 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 36.72 Mbit/s

95th percentile per-packet one-way delay: 65.652 ms

Loss rate: 0.63%

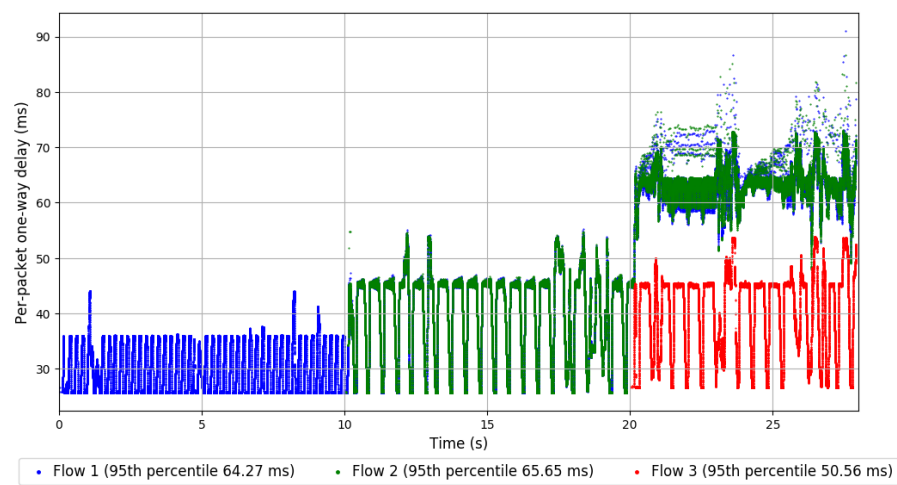
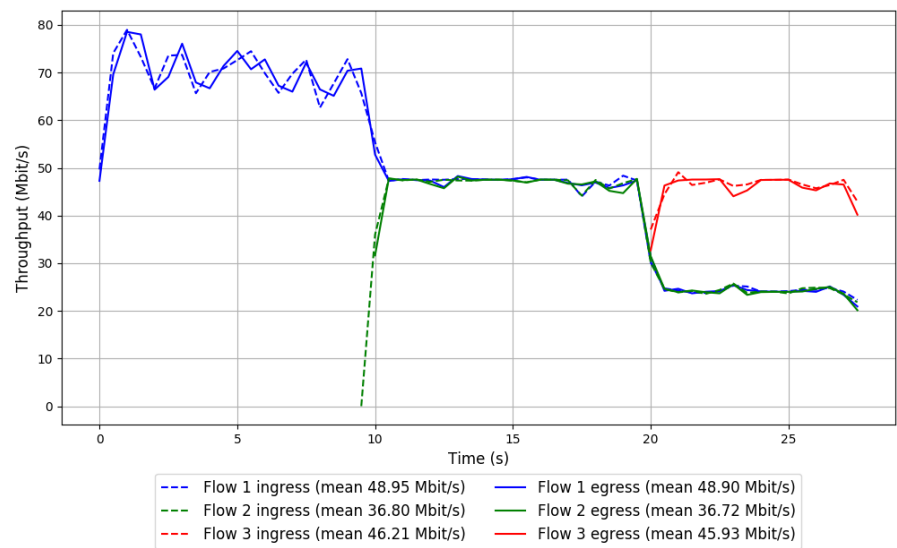
-- Flow 3:

Average throughput: 45.93 Mbit/s

95th percentile per-packet one-way delay: 50.557 ms

Loss rate: 1.41%

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

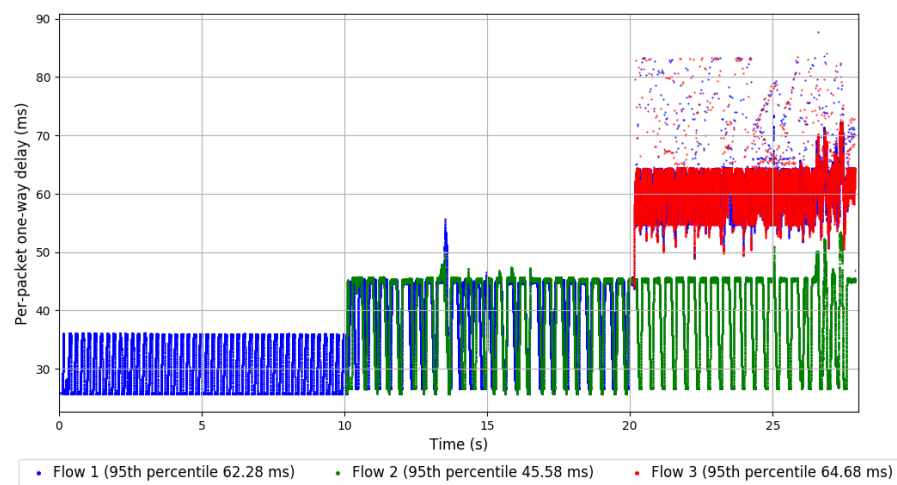
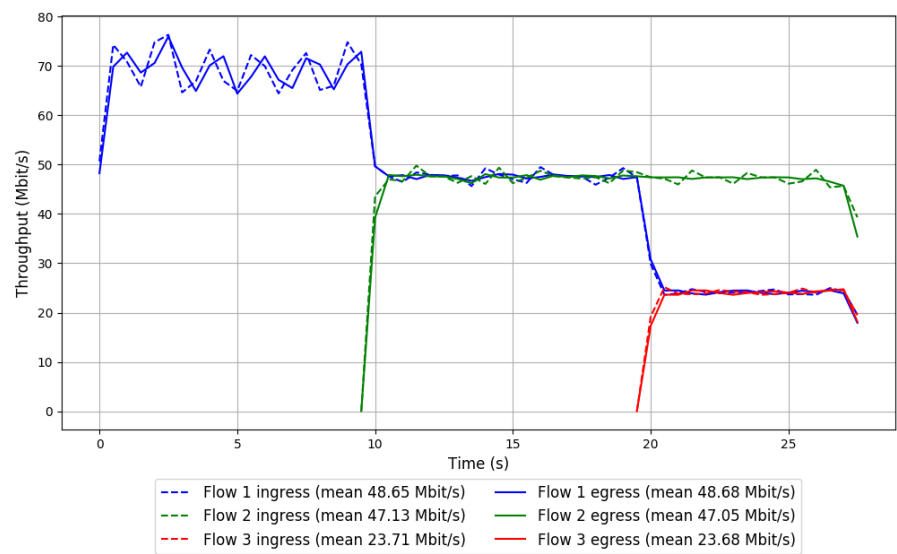


Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 10:22:20
End at: 2017-11-16 10:22:50
Local clock offset: 1.095 ms
Remote clock offset: -0.909 ms

Below is generated by plot.py at 2017-11-16 13:59:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 62.614 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 48.68 Mbit/s
95th percentile per-packet one-way delay: 62.282 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 45.578 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 64.683 ms
Loss rate: 1.22%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 07:23:58

End at: 2017-11-16 07:24:28

Local clock offset: 0.472 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2017-11-16 13:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 37.748 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 13.34 Mbit/s

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

Loss rate: 0.73%

-- Flow 2:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 42.392 ms

Loss rate: 0.80%

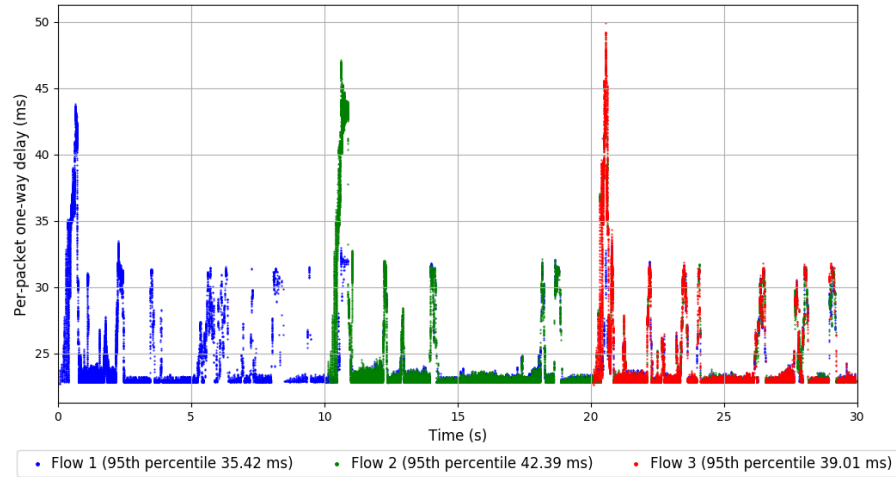
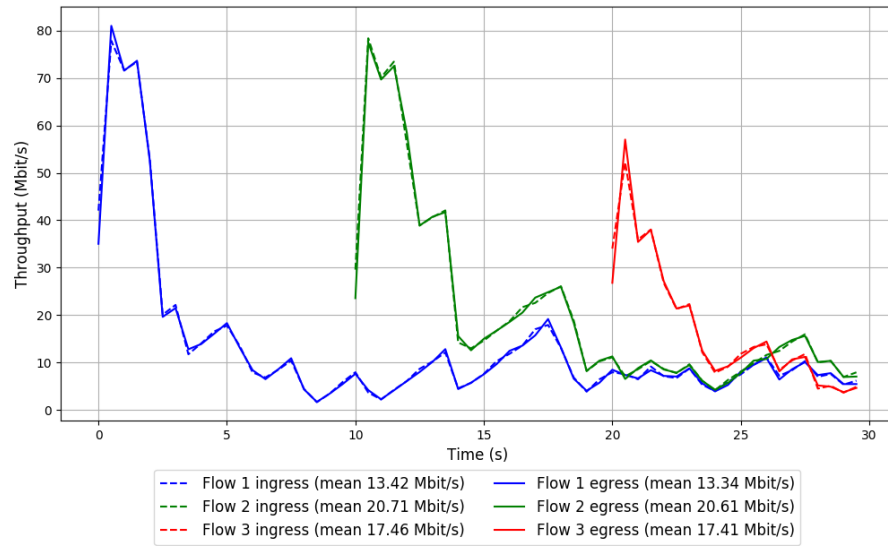
-- Flow 3:

Average throughput: 17.41 Mbit/s

95th percentile per-packet one-way delay: 39.012 ms

Loss rate: 0.82%

Run 1: Report of TCP Vegas — Data Link

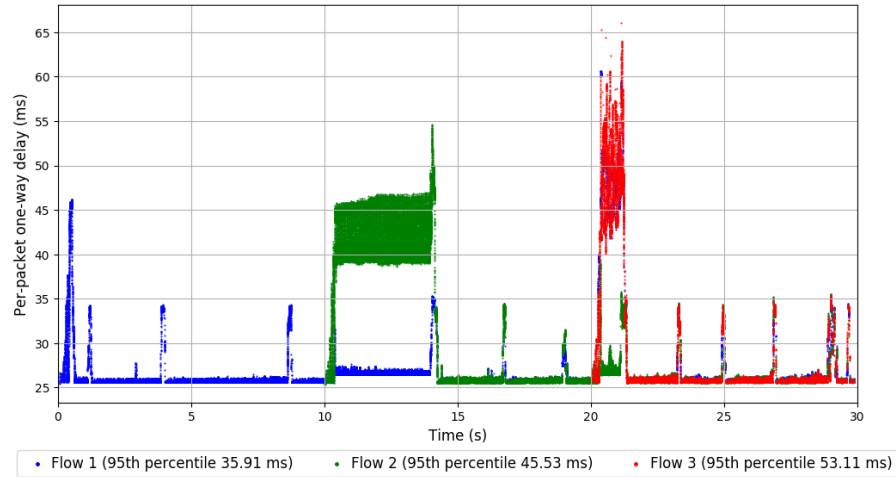
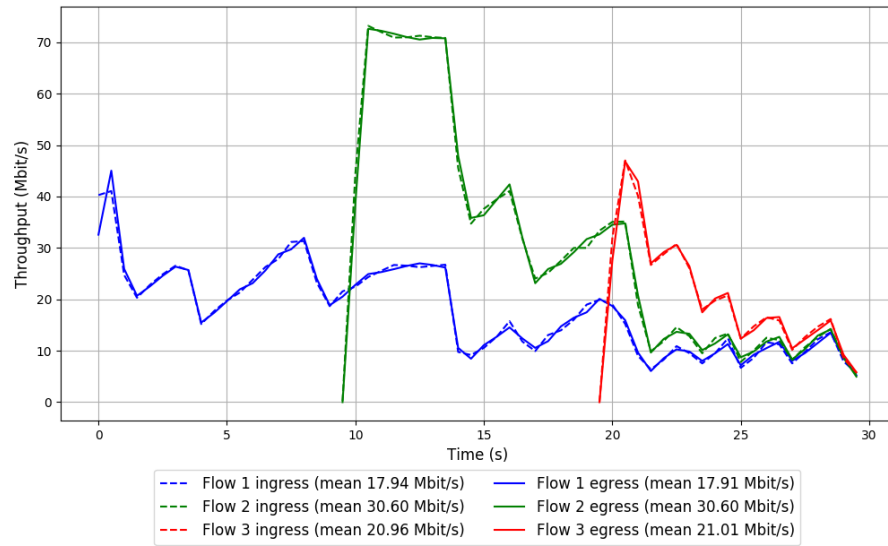


Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 07:43:17
End at: 2017-11-16 07:43:47
Local clock offset: 1.057 ms
Remote clock offset: -2.317 ms

Below is generated by plot.py at 2017-11-16 13:59:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 45.848 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 35.906 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 45.528 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 21.01 Mbit/s
95th percentile per-packet one-way delay: 53.109 ms
Loss rate: 0.28%

Run 2: Report of TCP Vegas — Data Link

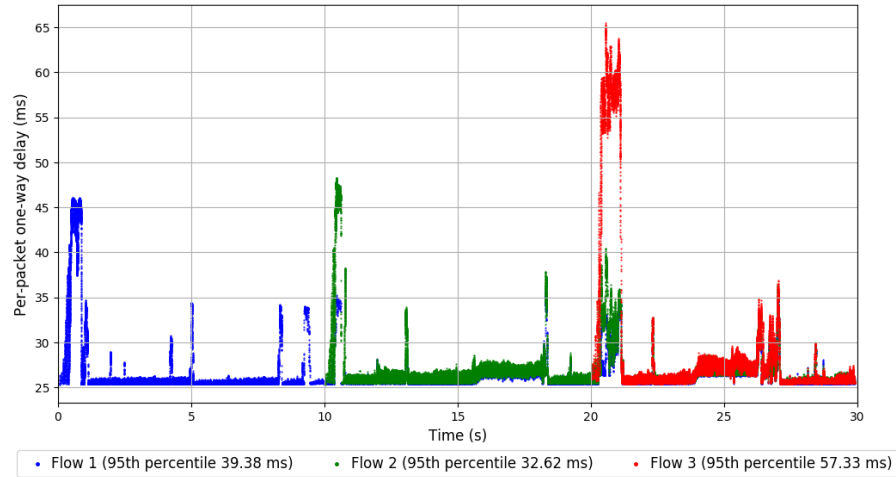
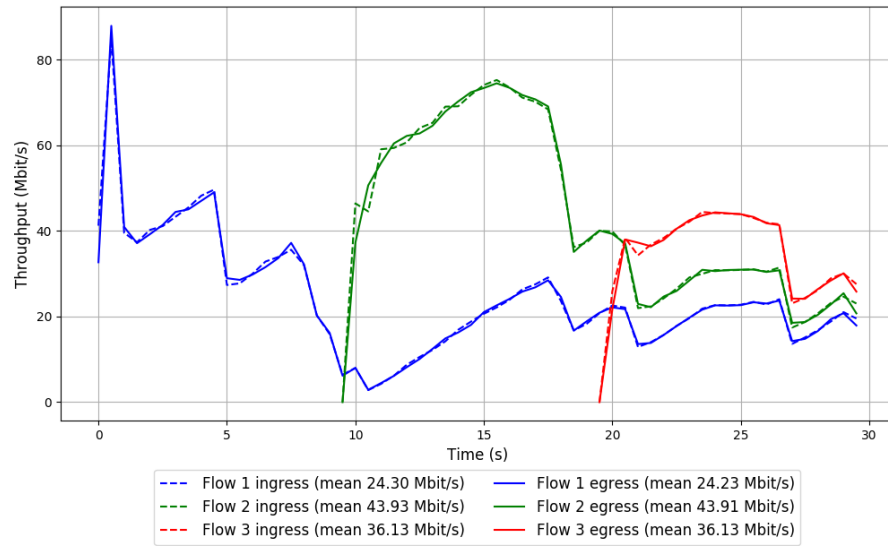


Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 08:02:38
End at: 2017-11-16 08:03:08
Local clock offset: 1.537 ms
Remote clock offset: -1.386 ms

Below is generated by plot.py at 2017-11-16 13:59:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.47 Mbit/s
95th percentile per-packet one-way delay: 36.109 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 39.376 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 43.91 Mbit/s
95th percentile per-packet one-way delay: 32.623 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 57.331 ms
Loss rate: 0.54%

Run 3: Report of TCP Vegas — Data Link

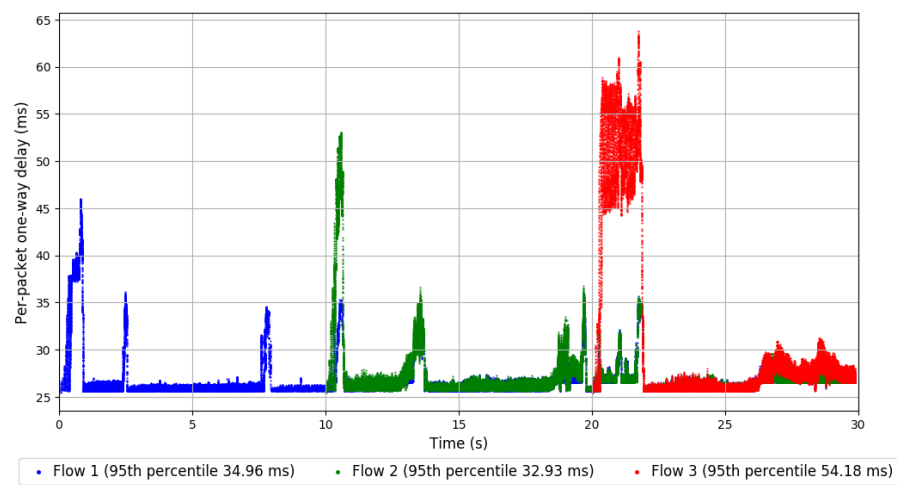
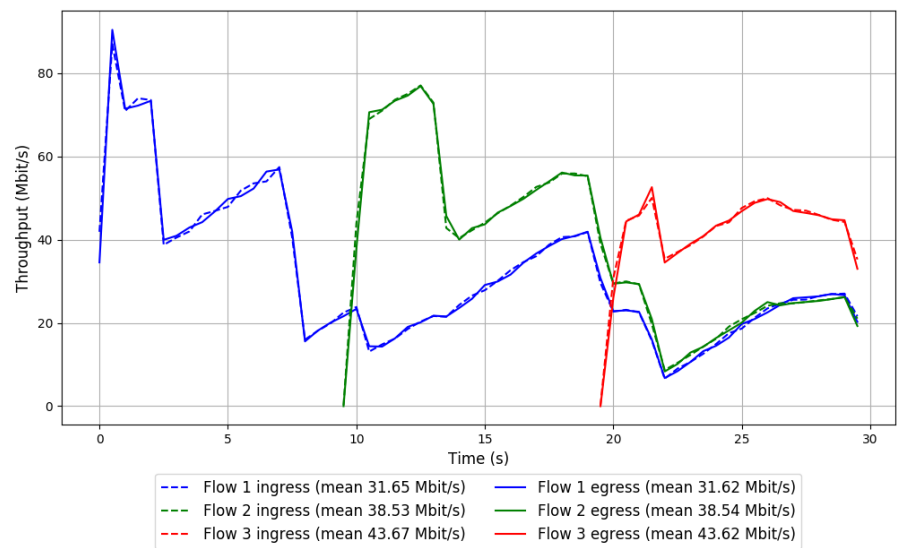


Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 08:21:49
End at: 2017-11-16 08:22:19
Local clock offset: 2.106 ms
Remote clock offset: -0.701 ms

Below is generated by plot.py at 2017-11-16 13:59:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.79 Mbit/s
95th percentile per-packet one-way delay: 39.209 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 34.960 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 32.932 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 43.62 Mbit/s
95th percentile per-packet one-way delay: 54.179 ms
Loss rate: 0.65%

Run 4: Report of TCP Vegas — Data Link

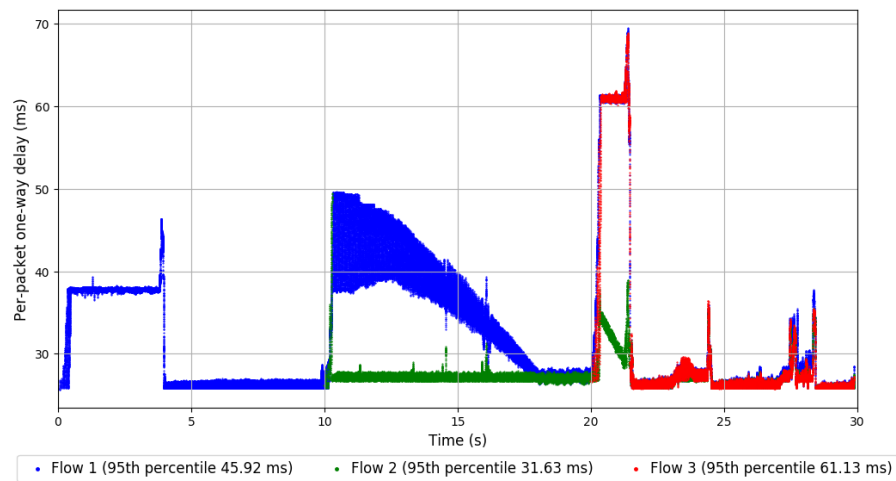
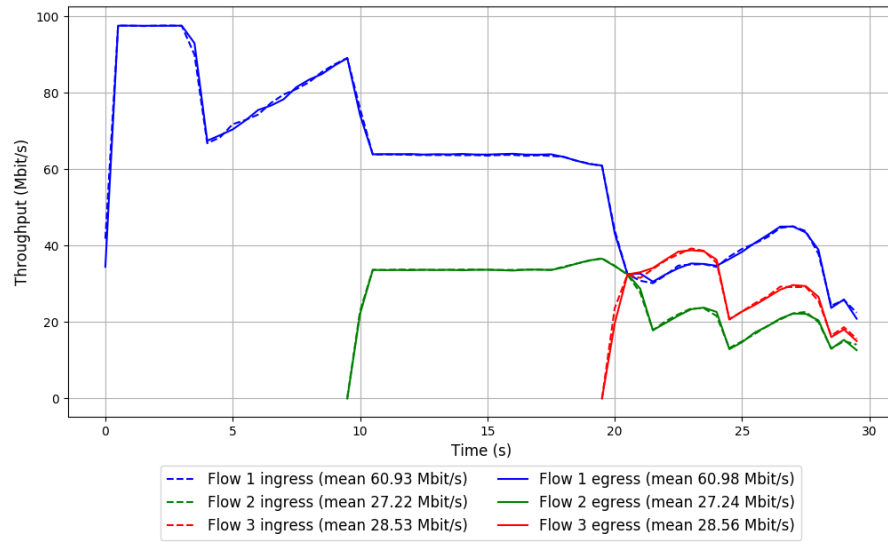


Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 08:41:01
End at: 2017-11-16 08:41:31
Local clock offset: 2.661 ms
Remote clock offset: -0.32 ms

Below is generated by plot.py at 2017-11-16 13:59:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 45.845 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 60.98 Mbit/s
95th percentile per-packet one-way delay: 45.921 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 31.629 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 28.56 Mbit/s
95th percentile per-packet one-way delay: 61.133 ms
Loss rate: 0.43%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 09:00:24

End at: 2017-11-16 09:00:54

Local clock offset: 2.3 ms

Remote clock offset: 1.847 ms

Below is generated by plot.py at 2017-11-16 13:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.19 Mbit/s

95th percentile per-packet one-way delay: 35.984 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 35.870 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 30.571 ms

Loss rate: 0.38%

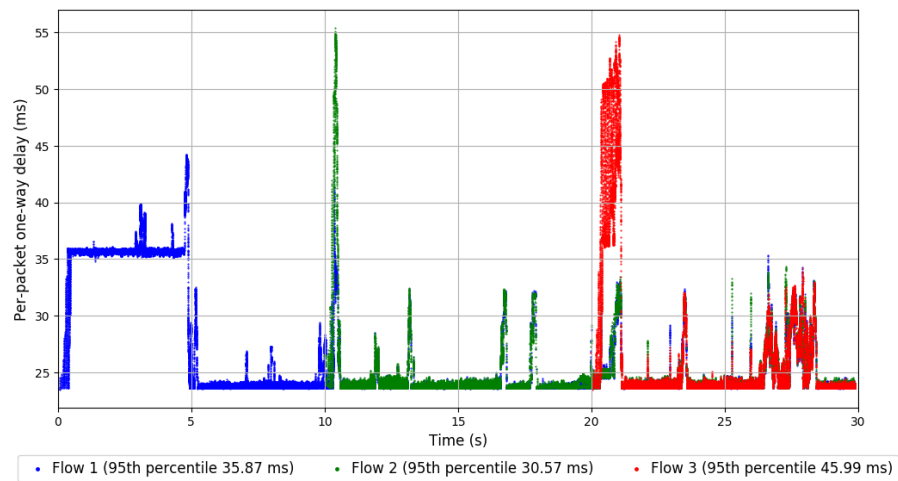
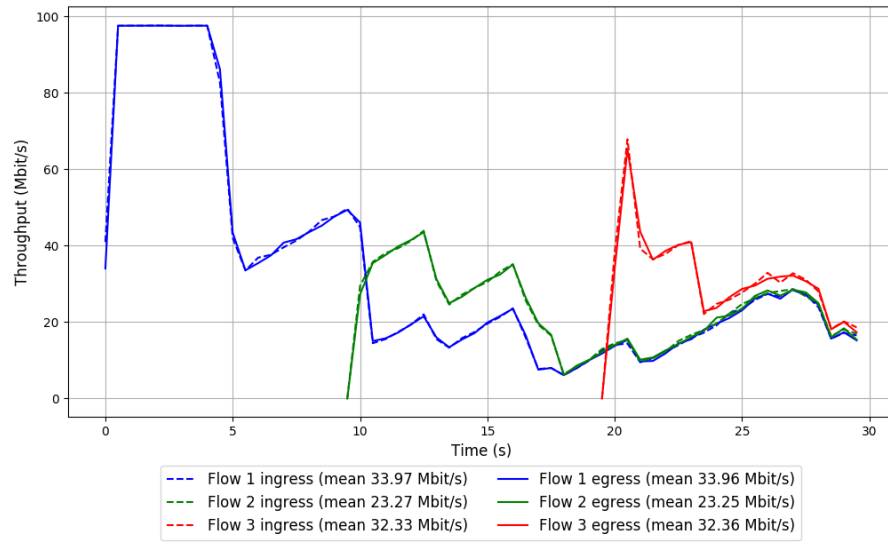
-- Flow 3:

Average throughput: 32.36 Mbit/s

95th percentile per-packet one-way delay: 45.993 ms

Loss rate: 0.46%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 09:19:32

End at: 2017-11-16 09:20:02

Local clock offset: 1.857 ms

Remote clock offset: 1.839 ms

Below is generated by plot.py at 2017-11-16 13:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 34.976 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 35.036 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 19.14 Mbit/s

95th percentile per-packet one-way delay: 24.935 ms

Loss rate: 0.48%

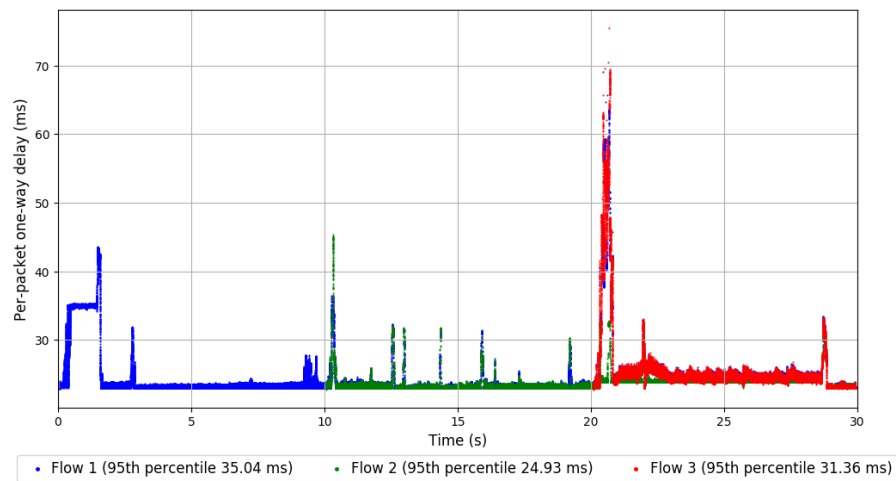
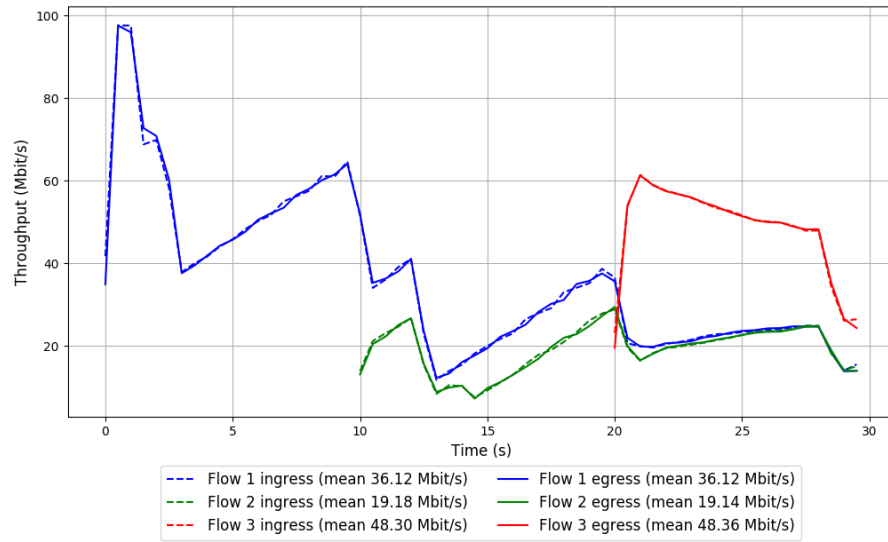
-- Flow 3:

Average throughput: 48.36 Mbit/s

95th percentile per-packet one-way delay: 31.365 ms

Loss rate: 0.44%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 09:38:38

End at: 2017-11-16 09:39:08

Local clock offset: 1.664 ms

Remote clock offset: 1.045 ms

Below is generated by plot.py at 2017-11-16 13:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.97 Mbit/s

95th percentile per-packet one-way delay: 46.468 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 42.471 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 46.837 ms

Loss rate: 0.18%

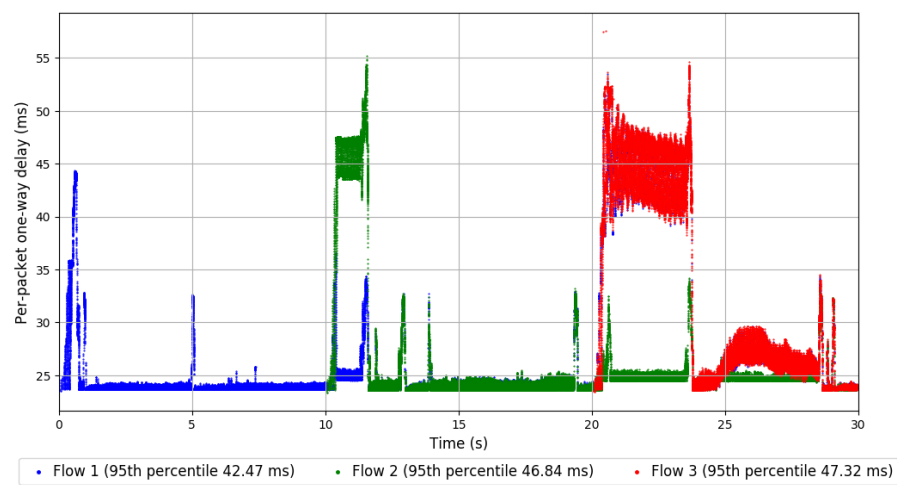
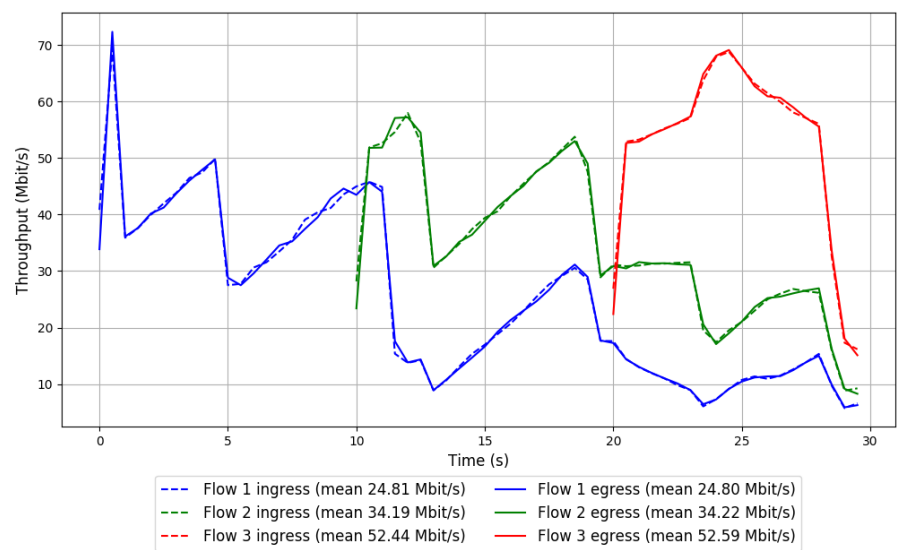
-- Flow 3:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 47.322 ms

Loss rate: 0.23%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 09:57:44

End at: 2017-11-16 09:58:14

Local clock offset: 1.436 ms

Remote clock offset: 1.857 ms

Below is generated by plot.py at 2017-11-16 13:59:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.20 Mbit/s

95th percentile per-packet one-way delay: 46.718 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 52.85 Mbit/s

95th percentile per-packet one-way delay: 46.735 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 46.718 ms

Loss rate: 0.23%

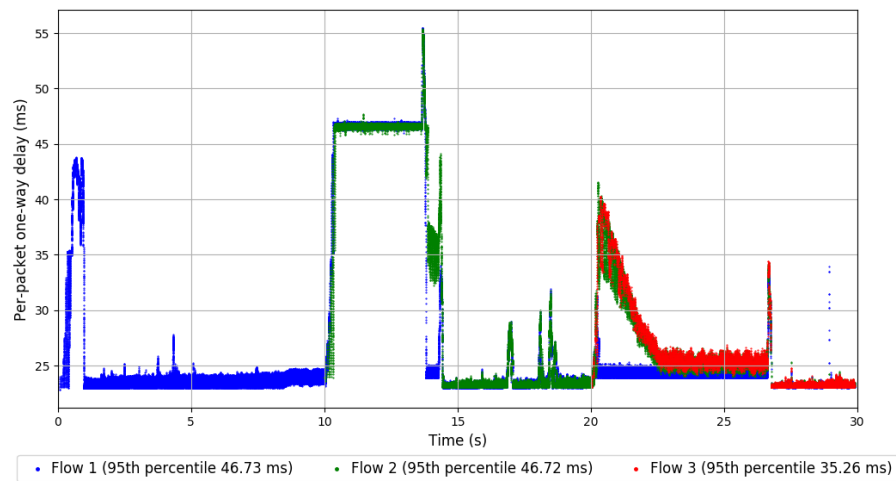
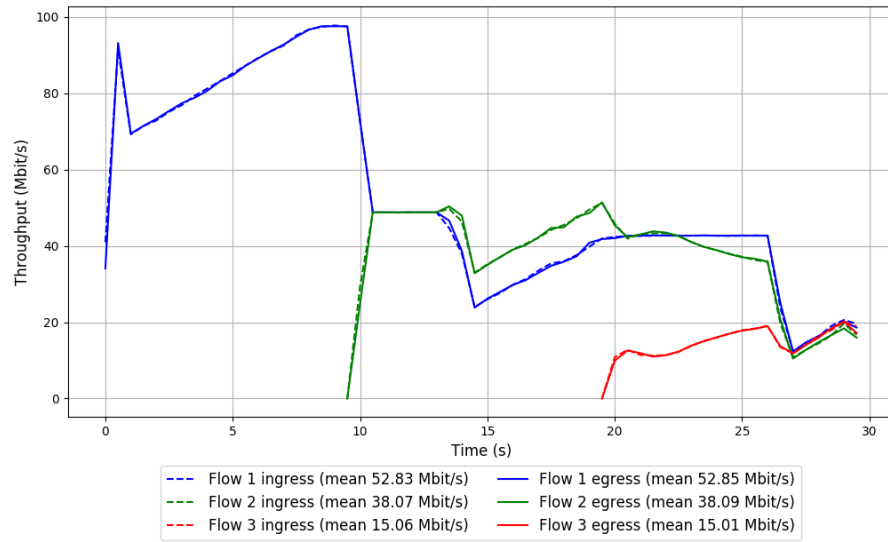
-- Flow 3:

Average throughput: 15.01 Mbit/s

95th percentile per-packet one-way delay: 35.259 ms

Loss rate: 0.86%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 10:16:53

End at: 2017-11-16 10:17:23

Local clock offset: 1.15 ms

Remote clock offset: 1.418 ms

Below is generated by plot.py at 2017-11-16 13:59:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.93 Mbit/s

95th percentile per-packet one-way delay: 46.651 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 29.03 Mbit/s

95th percentile per-packet one-way delay: 27.475 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 33.09 Mbit/s

95th percentile per-packet one-way delay: 46.054 ms

Loss rate: 0.21%

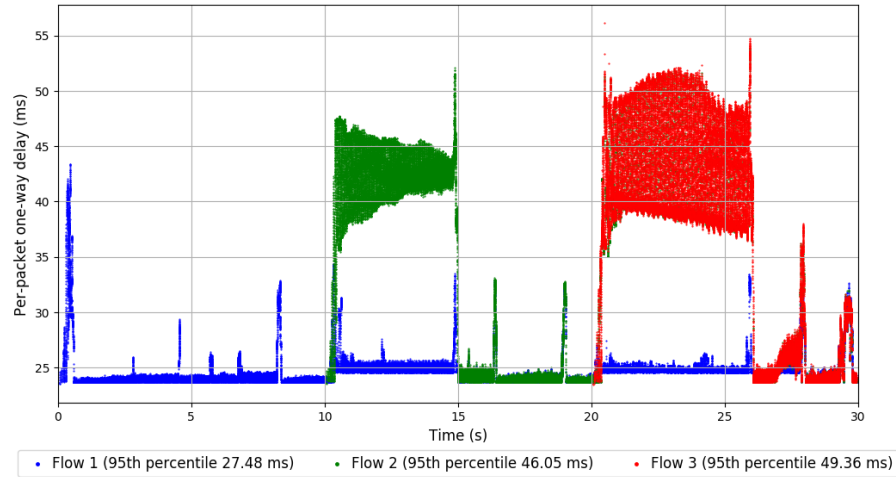
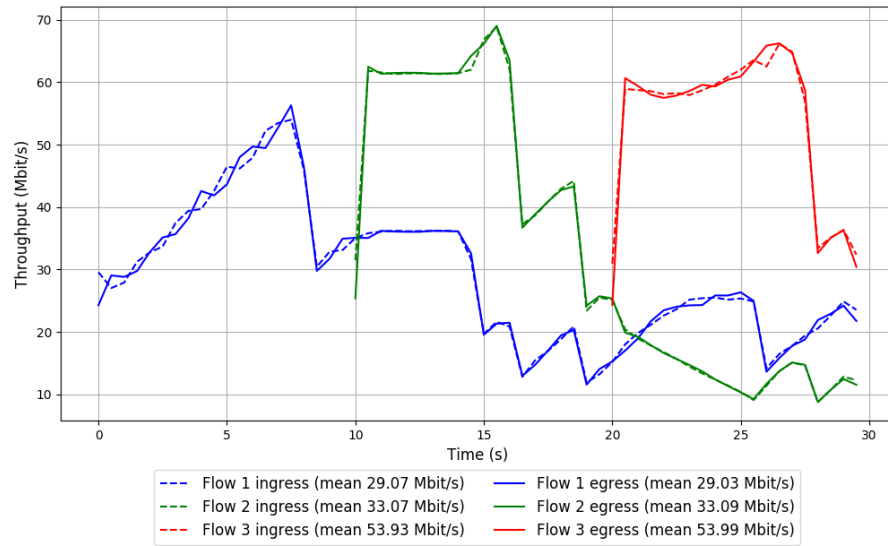
-- Flow 3:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 49.364 ms

Loss rate: 0.39%

Run 10: Report of TCP Vegas — Data Link

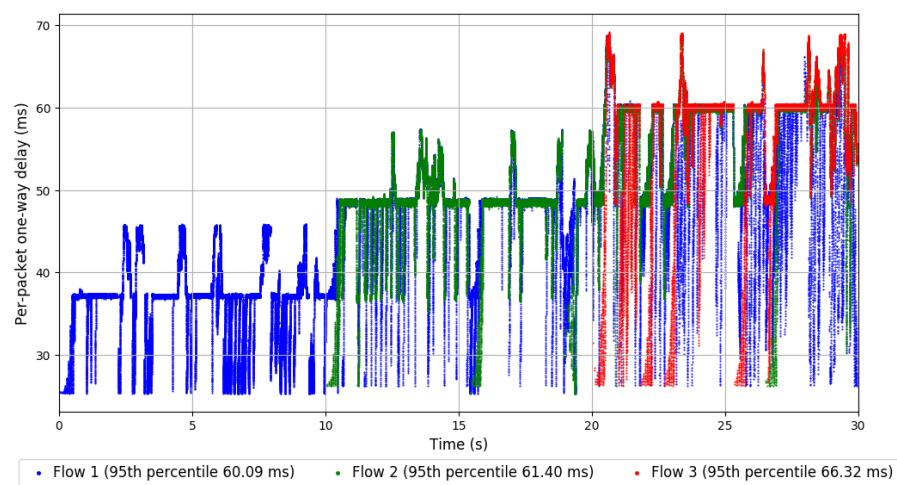
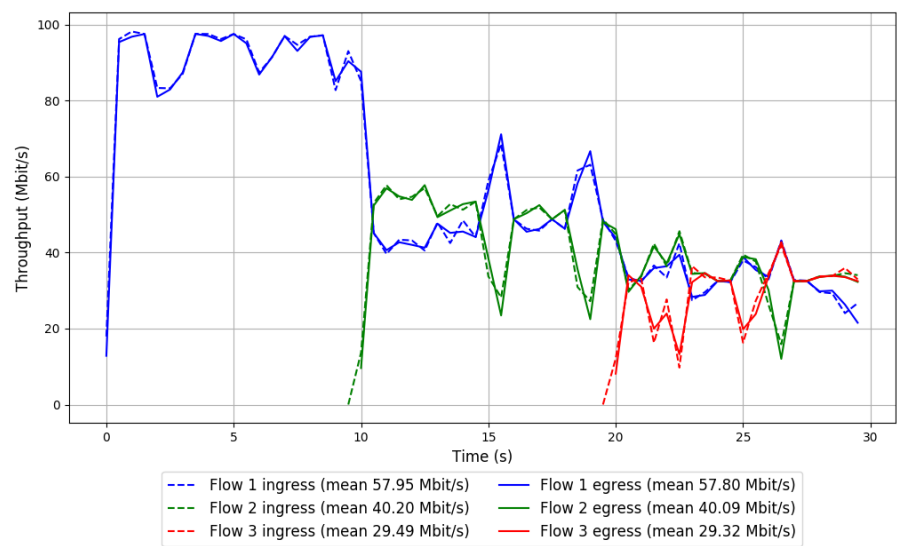


Run 1: Statistics of Verus

Start at: 2017-11-16 07:30:49
End at: 2017-11-16 07:31:19
Local clock offset: 0.55 ms
Remote clock offset: -2.445 ms

Below is generated by plot.py at 2017-11-16 13:59:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 60.370 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 57.80 Mbit/s
95th percentile per-packet one-way delay: 60.088 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 61.403 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 66.318 ms
Loss rate: 1.33%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 07:50:11

End at: 2017-11-16 07:50:41

Local clock offset: 1.303 ms

Remote clock offset: 0.653 ms

Below is generated by plot.py at 2017-11-16 14:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 60.432 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 57.651 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 61.215 ms

Loss rate: 0.59%

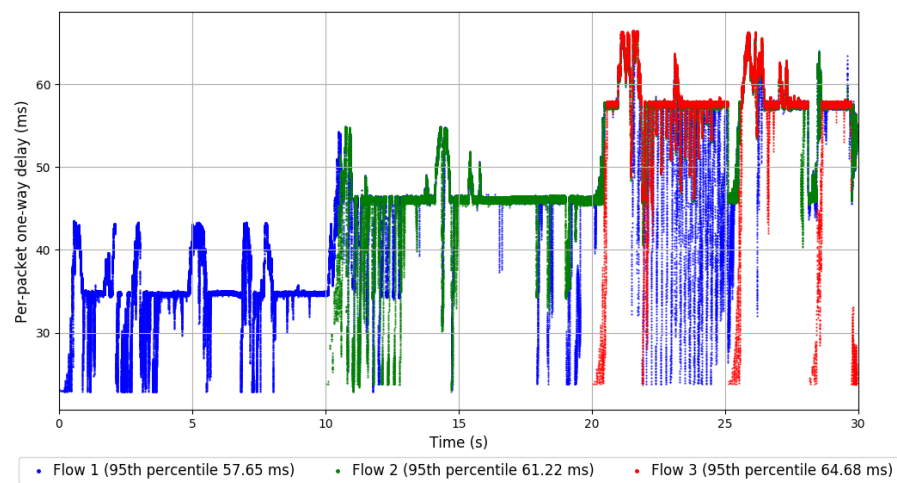
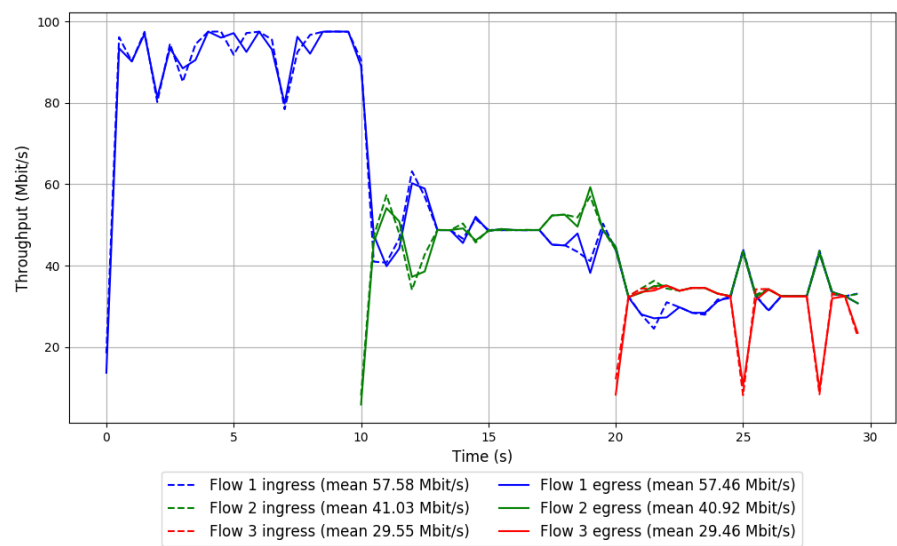
-- Flow 3:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 64.684 ms

Loss rate: 0.85%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 08:09:27

End at: 2017-11-16 08:09:57

Local clock offset: 1.718 ms

Remote clock offset: 1.108 ms

Below is generated by plot.py at 2017-11-16 14:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 68.572 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 48.533 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 69.207 ms

Loss rate: 1.05%

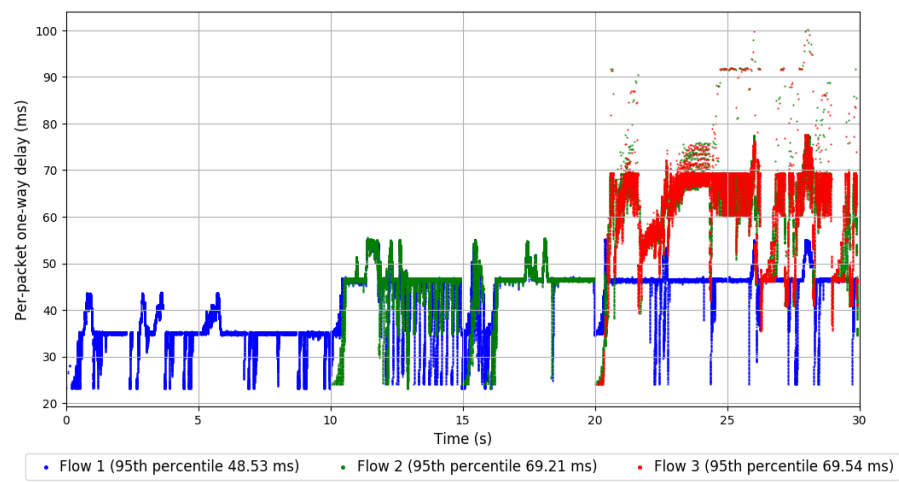
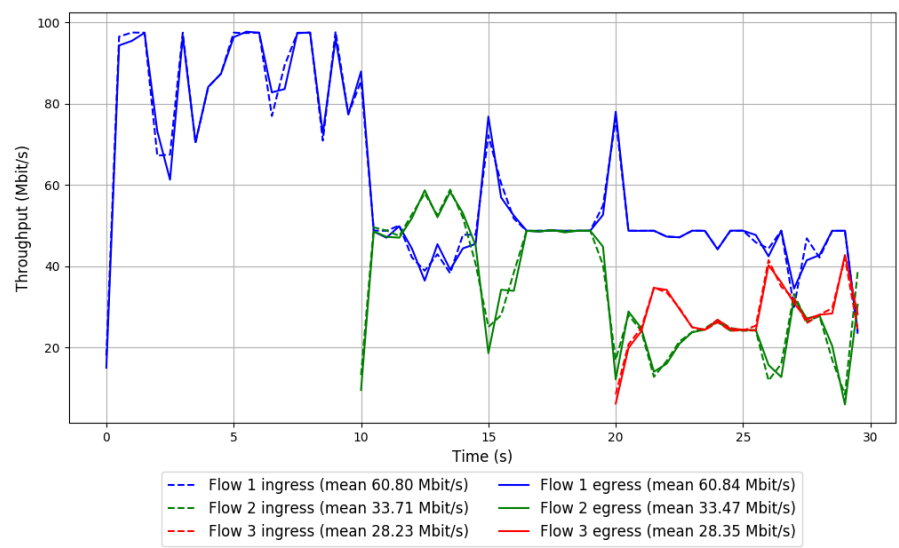
-- Flow 3:

Average throughput: 28.35 Mbit/s

95th percentile per-packet one-way delay: 69.537 ms

Loss rate: 0.11%

Run 3: Report of Verus — Data Link

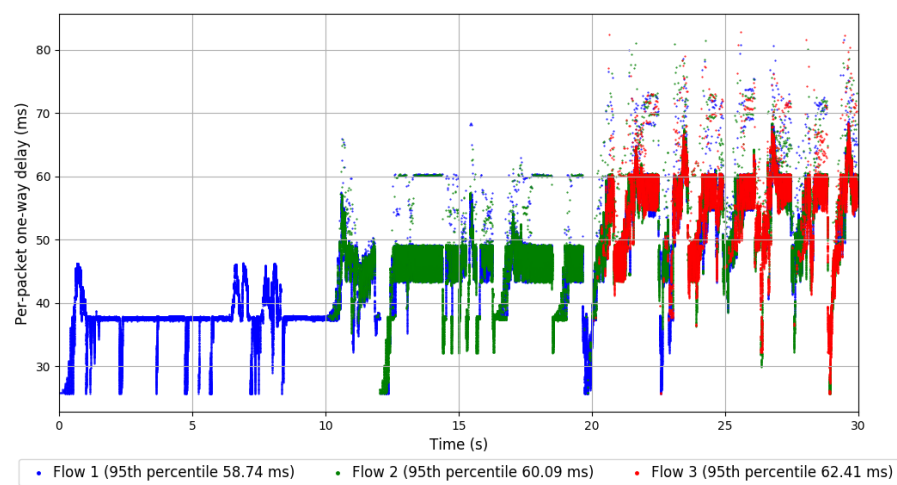
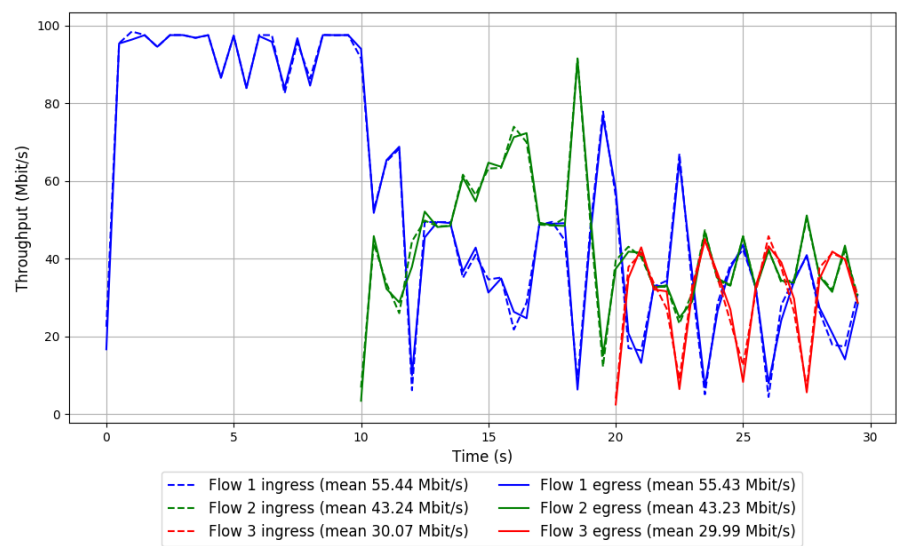


Run 4: Statistics of Verus

Start at: 2017-11-16 08:28:37
End at: 2017-11-16 08:29:07
Local clock offset: 2.414 ms
Remote clock offset: -0.521 ms

Below is generated by plot.py at 2017-11-16 14:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 59.992 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 58.738 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 60.093 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 62.411 ms
Loss rate: 1.06%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 08:47:52

End at: 2017-11-16 08:48:22

Local clock offset: 2.535 ms

Remote clock offset: 2.454 ms

Below is generated by plot.py at 2017-11-16 14:00:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 68.678 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 67.746 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 48.02 Mbit/s

95th percentile per-packet one-way delay: 52.539 ms

Loss rate: 0.54%

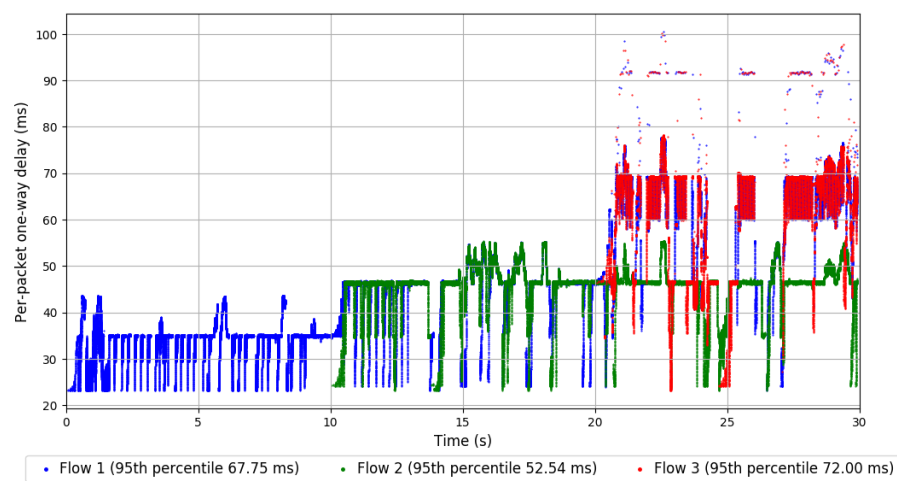
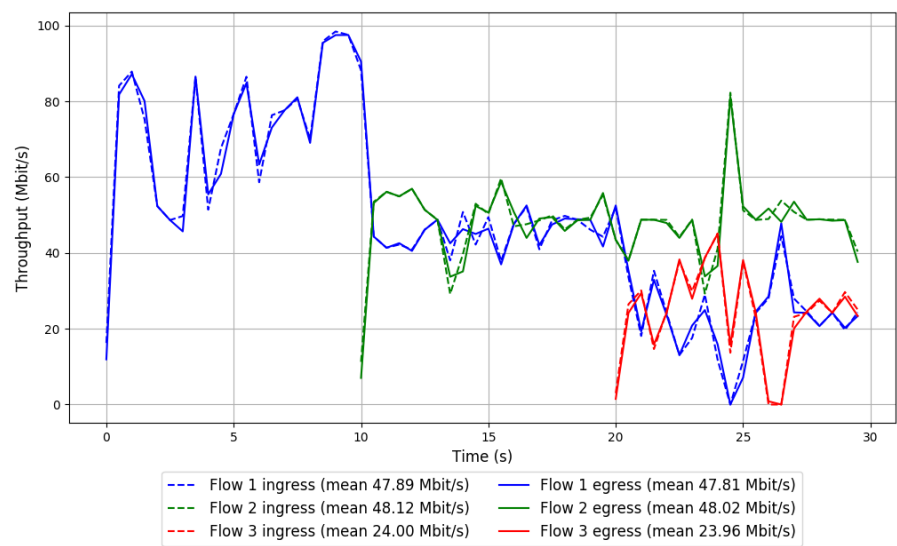
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 72.000 ms

Loss rate: 1.21%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

End at: 2017-11-16 09:07:41

Local clock offset: 2.05 ms

Remote clock offset: 1.617 ms

Below is generated by plot.py at 2017-11-16 14:00:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 66.067 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 54.99 Mbit/s

95th percentile per-packet one-way delay: 63.923 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 69.397 ms

Loss rate: 0.45%

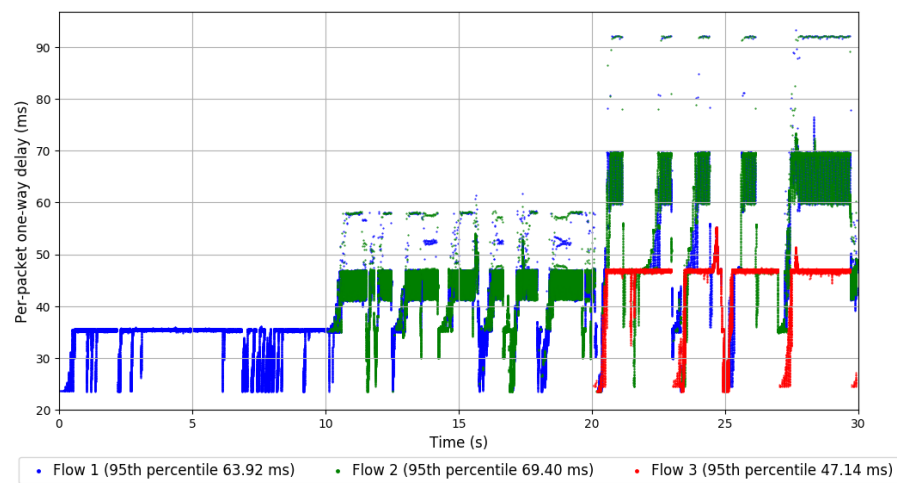
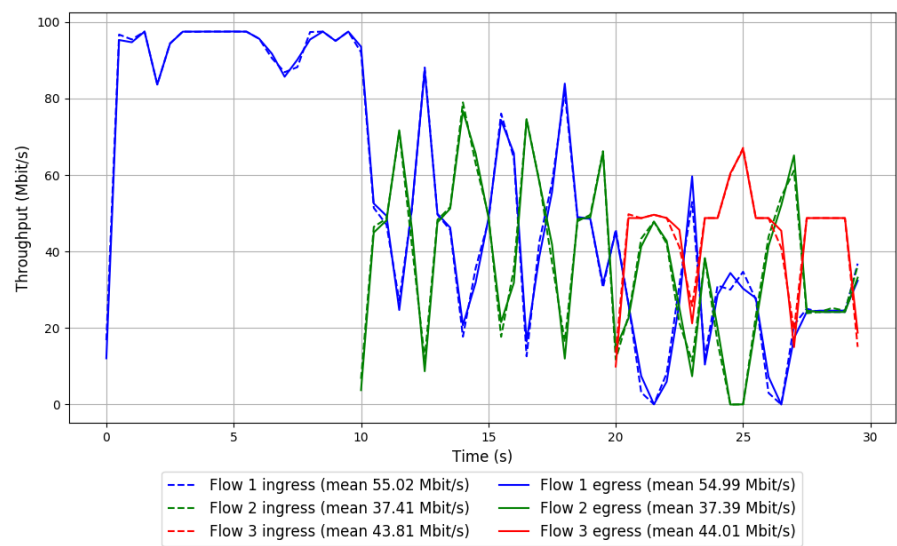
-- Flow 3:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 47.144 ms

Loss rate: 0.10%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 09:26:19

End at: 2017-11-16 09:26:49

Local clock offset: 1.8 ms

Remote clock offset: 1.206 ms

Below is generated by plot.py at 2017-11-16 14:00:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 67.746 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 64.72 Mbit/s

95th percentile per-packet one-way delay: 46.892 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 34.87 Mbit/s

95th percentile per-packet one-way delay: 69.264 ms

Loss rate: 0.36%

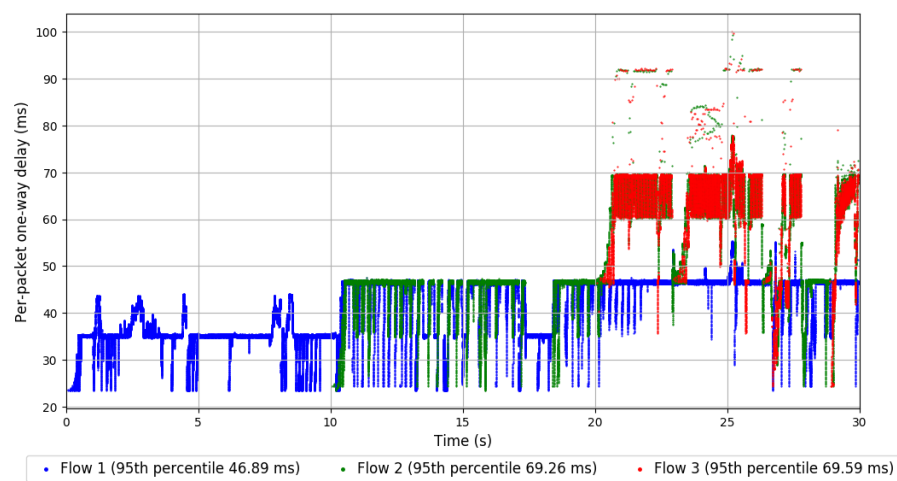
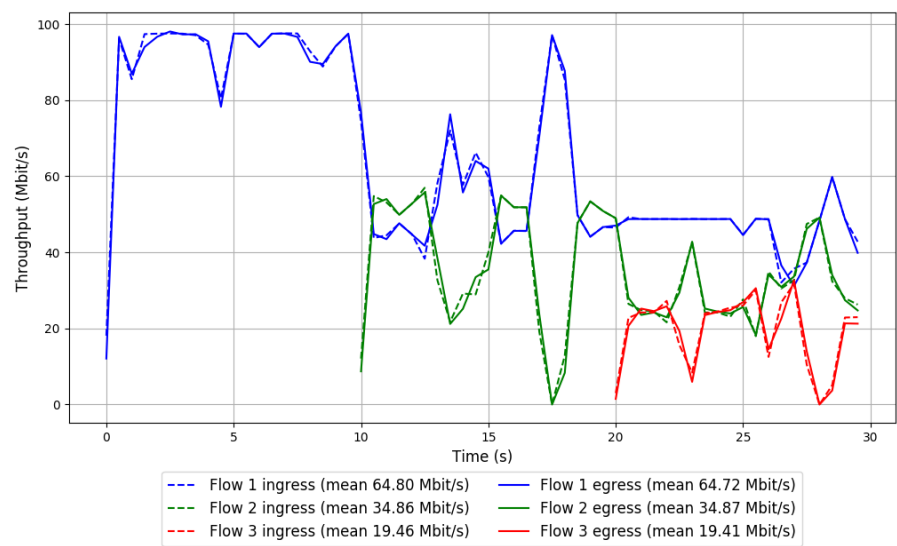
-- Flow 3:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 69.593 ms

Loss rate: 1.24%

Run 7: Report of Verus — Data Link

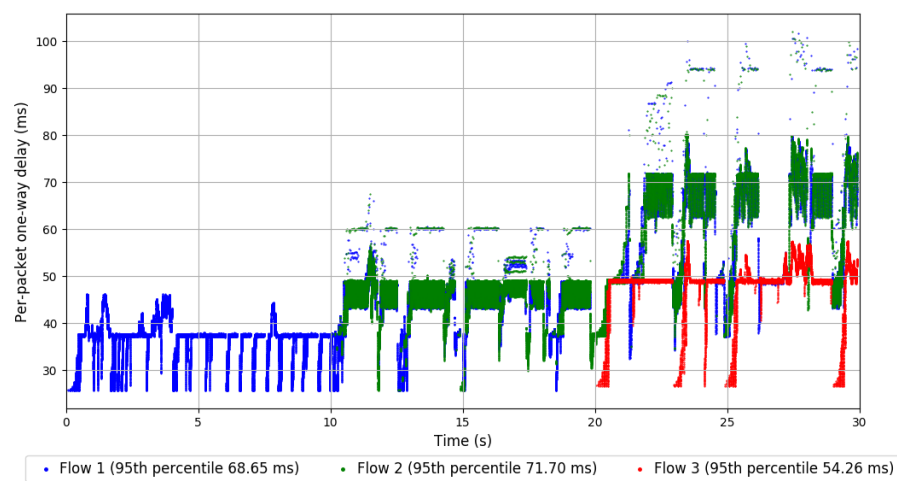
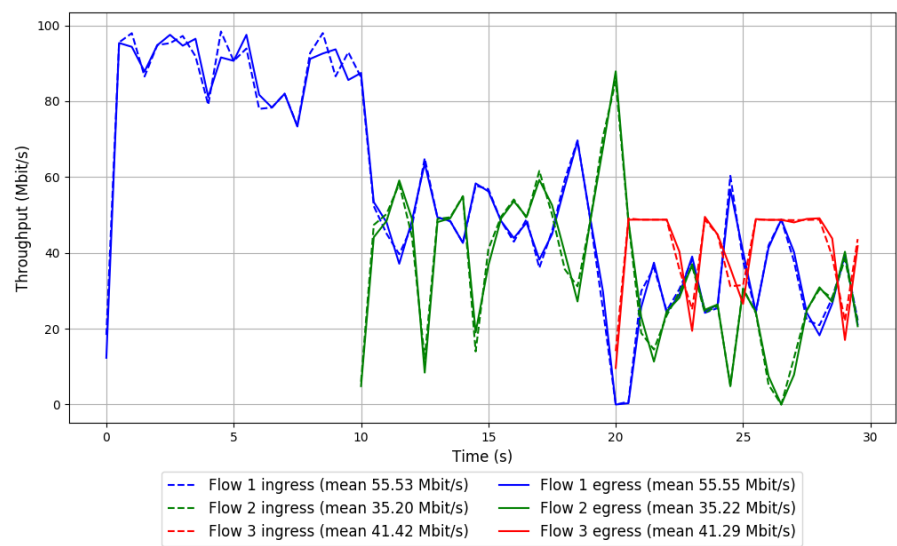


Run 8: Statistics of Verus

Start at: 2017-11-16 09:45:26
End at: 2017-11-16 09:45:56
Local clock offset: 1.618 ms
Remote clock offset: -0.967 ms

Below is generated by plot.py at 2017-11-16 14:00:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 70.329 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.55 Mbit/s
95th percentile per-packet one-way delay: 68.653 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 35.22 Mbit/s
95th percentile per-packet one-way delay: 71.696 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 41.29 Mbit/s
95th percentile per-packet one-way delay: 54.262 ms
Loss rate: 0.86%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-16 10:04:30

End at: 2017-11-16 10:05:00

Local clock offset: 1.323 ms

Remote clock offset: 1.356 ms

Below is generated by plot.py at 2017-11-16 14:01:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 69.284 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 69.189 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 51.592 ms

Loss rate: 0.60%

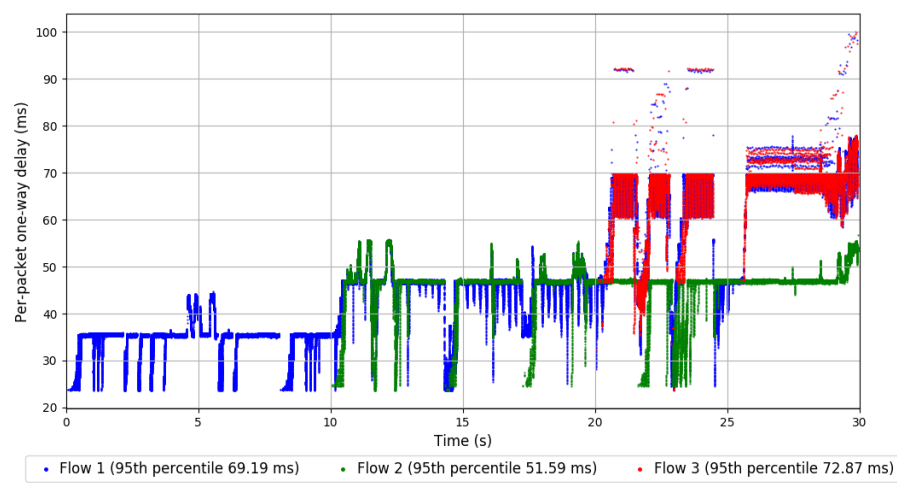
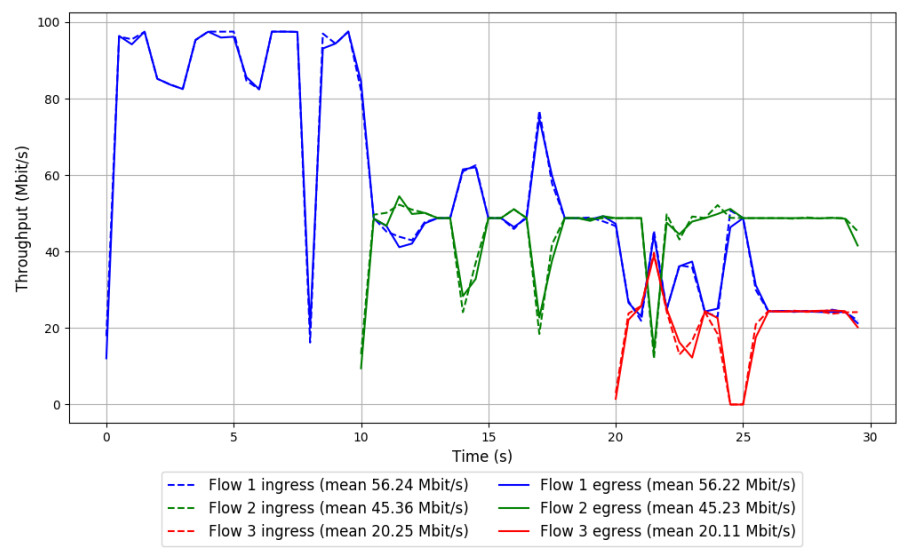
-- Flow 3:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 72.873 ms

Loss rate: 1.53%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 10:23:49

End at: 2017-11-16 10:24:19

Local clock offset: 1.083 ms

Remote clock offset: 1.185 ms

Below is generated by plot.py at 2017-11-16 14:01:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 69.108 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 67.665 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 41.50 Mbit/s

95th percentile per-packet one-way delay: 48.995 ms

Loss rate: 0.47%

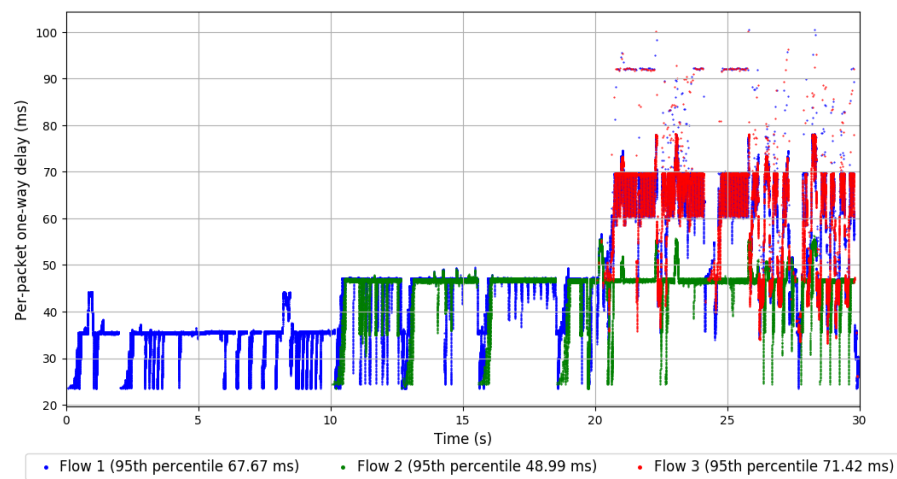
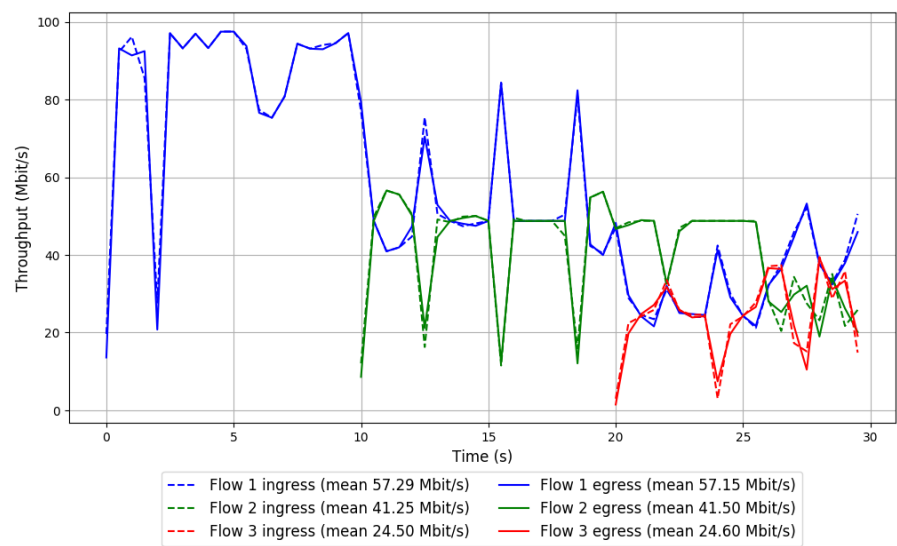
-- Flow 3:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 71.421 ms

Loss rate: 0.36%

Run 10: Report of Verus — Data Link

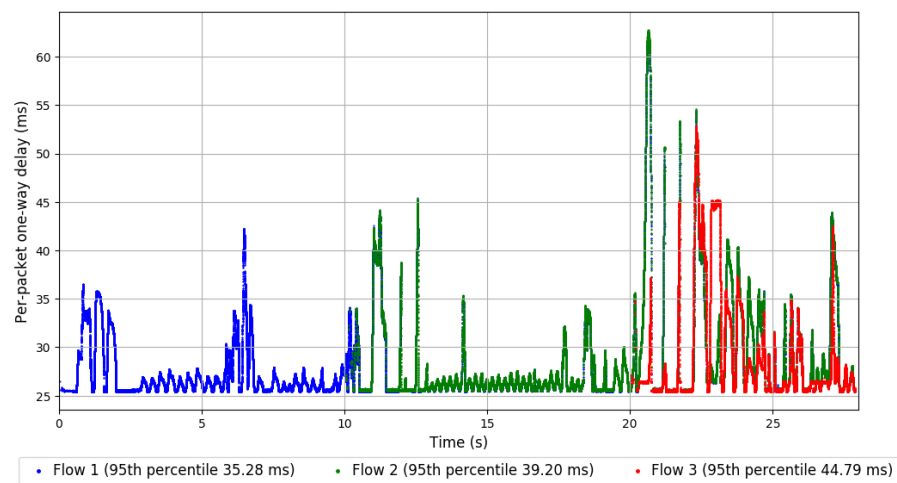
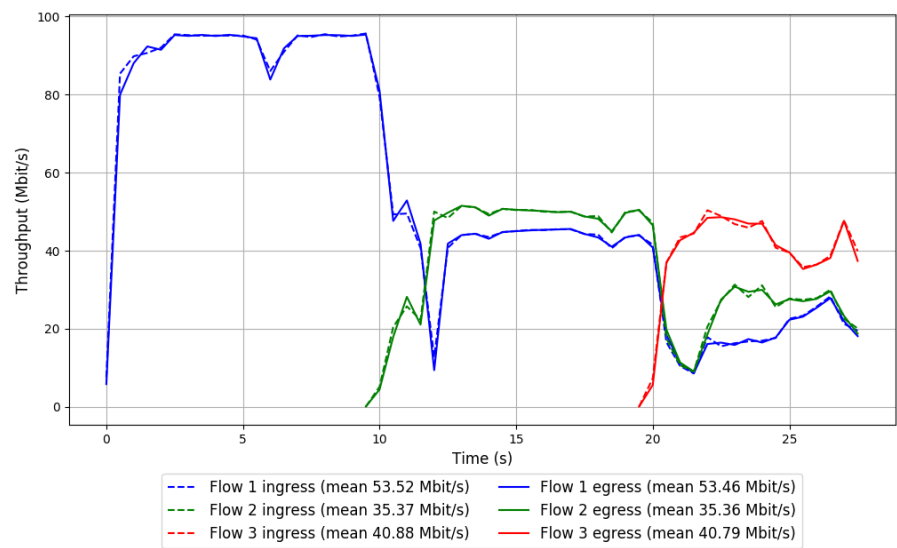


Run 1: Statistics of Copa

Start at: 2017-11-16 07:33:38
End at: 2017-11-16 07:34:08
Local clock offset: 0.759 ms
Remote clock offset: -2.446 ms

Below is generated by plot.py at 2017-11-16 14:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.74 Mbit/s
95th percentile per-packet one-way delay: 38.485 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 53.46 Mbit/s
95th percentile per-packet one-way delay: 35.276 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 35.36 Mbit/s
95th percentile per-packet one-way delay: 39.195 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 44.787 ms
Loss rate: 0.90%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2017-11-16 07:53:29

Local clock offset: 1.413 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2017-11-16 14:02:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.94 Mbit/s

95th percentile per-packet one-way delay: 34.520 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 33.766 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 35.278 ms

Loss rate: 0.52%

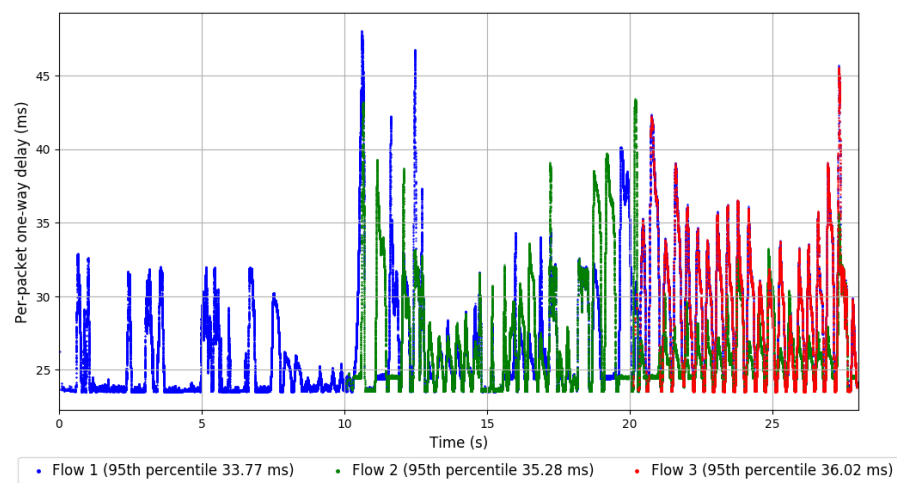
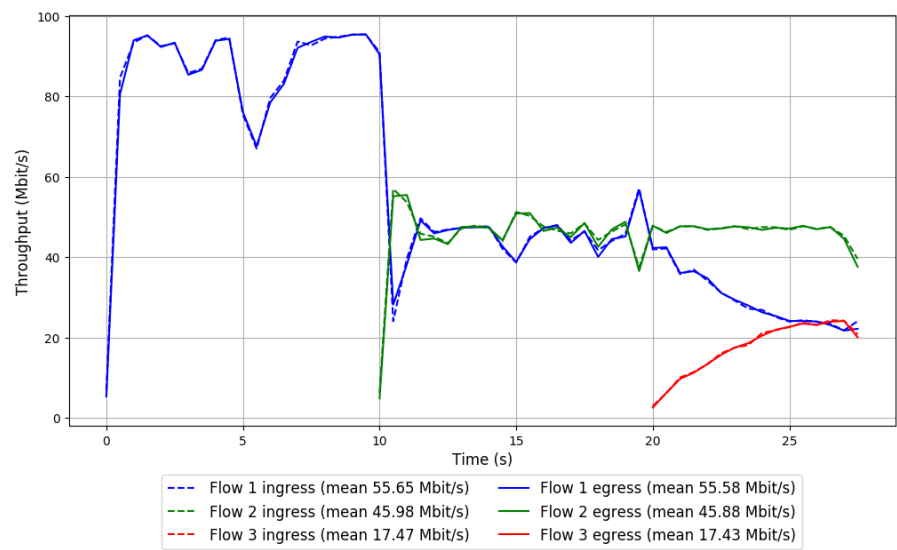
-- Flow 3:

Average throughput: 17.43 Mbit/s

95th percentile per-packet one-way delay: 36.024 ms

Loss rate: 0.91%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 08:12:14

End at: 2017-11-16 08:12:44

Local clock offset: 1.902 ms

Remote clock offset: 1.05 ms

Below is generated by plot.py at 2017-11-16 14:02:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 32.263 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 51.53 Mbit/s

95th percentile per-packet one-way delay: 31.290 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 35.92 Mbit/s

95th percentile per-packet one-way delay: 36.263 ms

Loss rate: 0.33%

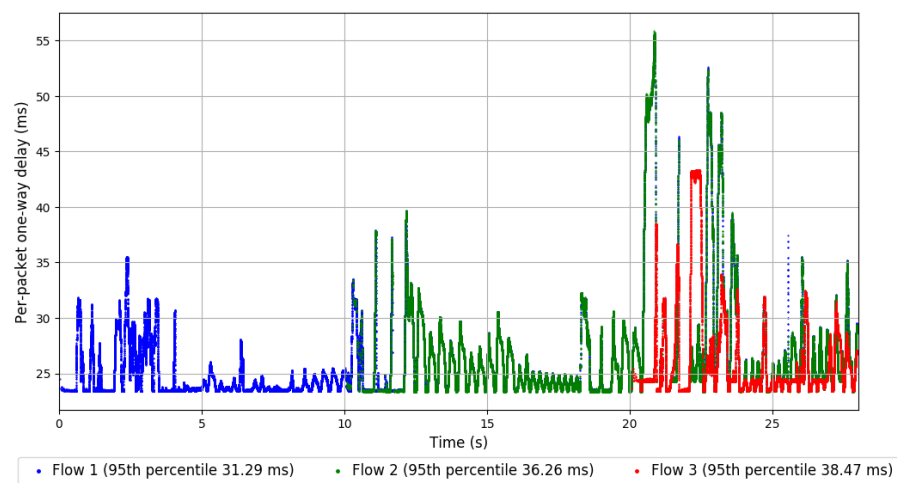
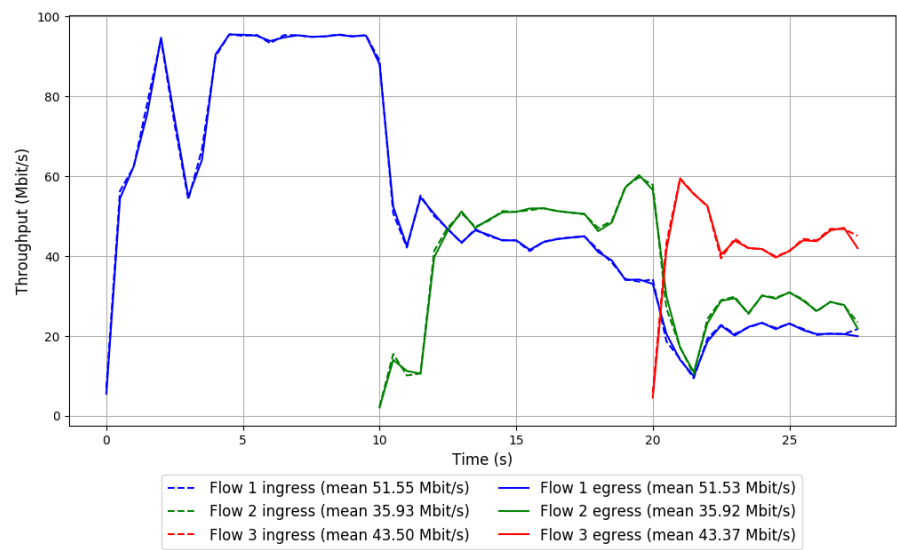
-- Flow 3:

Average throughput: 43.37 Mbit/s

95th percentile per-packet one-way delay: 38.466 ms

Loss rate: 0.96%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-16 08:31:27

End at: 2017-11-16 08:31:57

Local clock offset: 2.497 ms

Remote clock offset: 1.522 ms

Below is generated by plot.py at 2017-11-16 14:03:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 32.249 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 58.58 Mbit/s

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

Loss rate: 0.12%

-- Flow 2:

Average throughput: 44.55 Mbit/s

95th percentile per-packet one-way delay: 38.454 ms

Loss rate: 0.34%

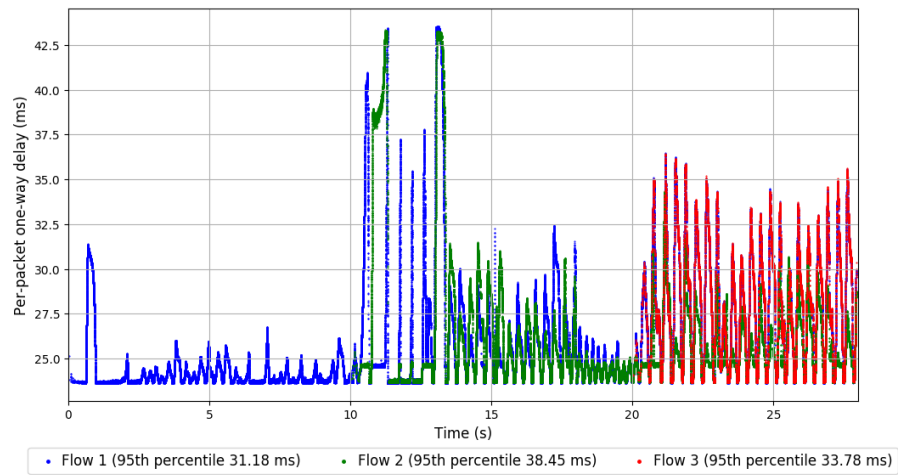
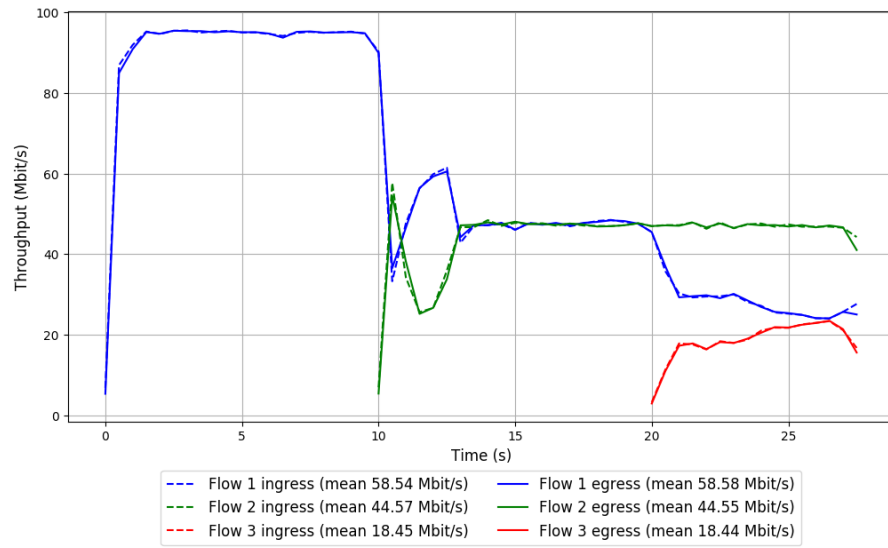
-- Flow 3:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 33.778 ms

Loss rate: 0.73%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 08:50:41

End at: 2017-11-16 08:51:12

Local clock offset: 2.481 ms

Remote clock offset: 1.998 ms

Below is generated by plot.py at 2017-11-16 14:03:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 36.535 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 36.815 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 35.43 Mbit/s

95th percentile per-packet one-way delay: 34.168 ms

Loss rate: 0.39%

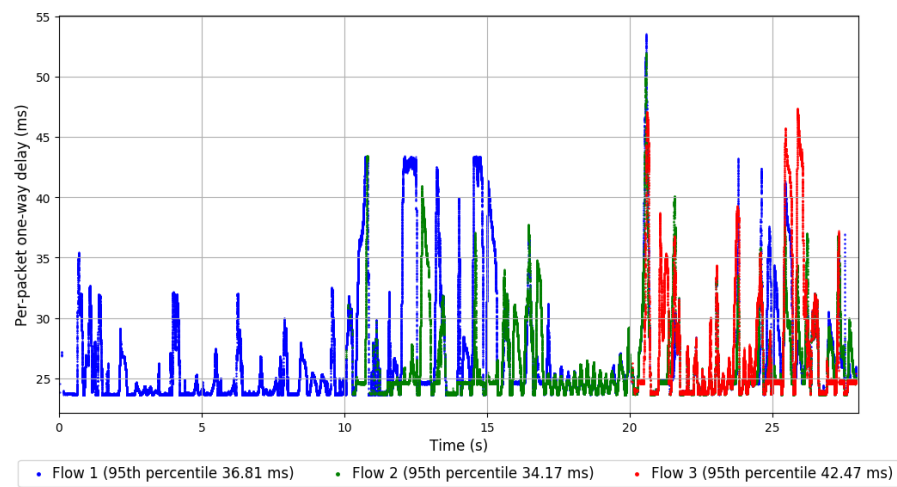
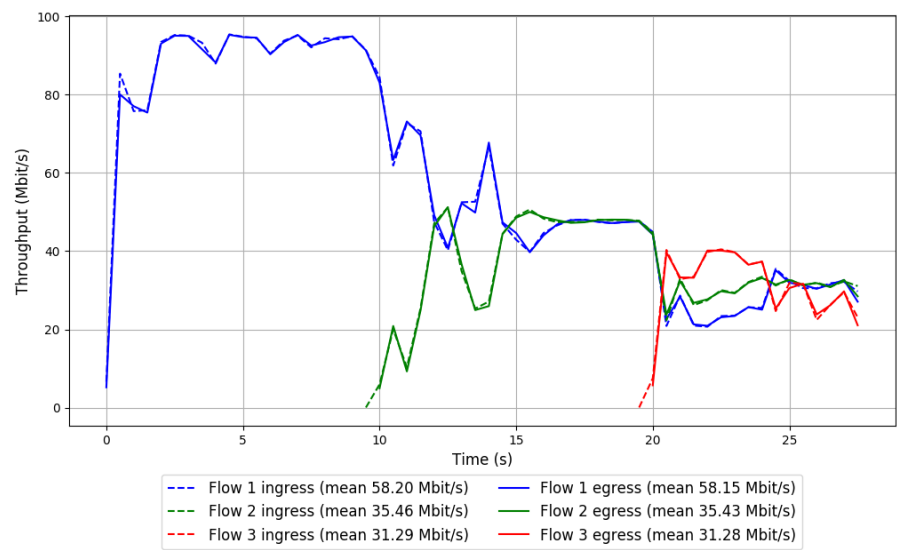
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 42.472 ms

Loss rate: 0.71%

Run 5: Report of Copa — Data Link

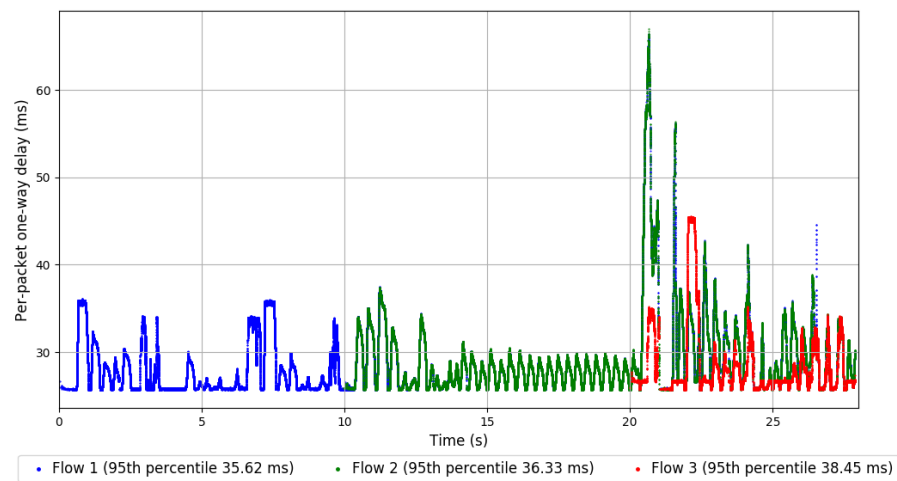
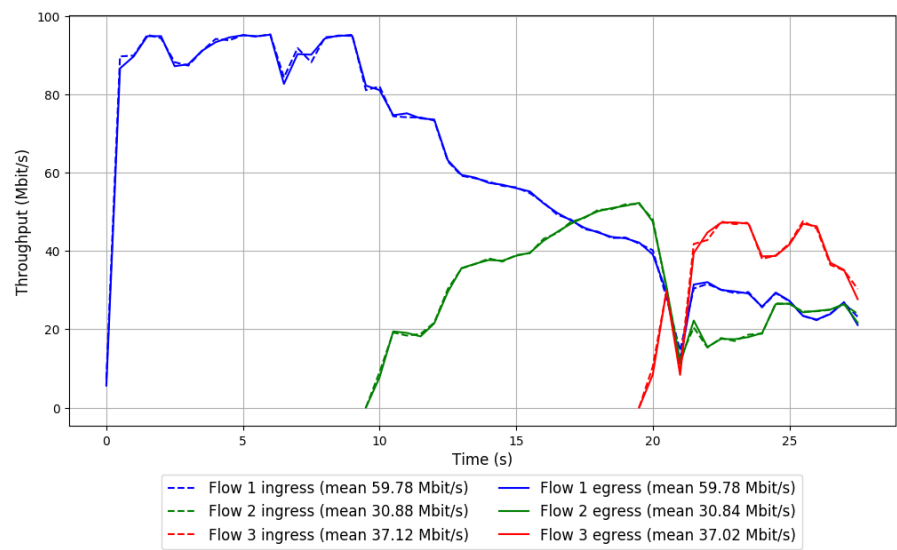


Run 6: Statistics of Copa

Start at: 2017-11-16 09:10:00
End at: 2017-11-16 09:10:30
Local clock offset: 1.997 ms
Remote clock offset: -0.605 ms

Below is generated by plot.py at 2017-11-16 14:03:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.10 Mbit/s
95th percentile per-packet one-way delay: 35.652 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 59.78 Mbit/s
95th percentile per-packet one-way delay: 35.618 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 36.329 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 38.445 ms
Loss rate: 0.93%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 09:29:06

End at: 2017-11-16 09:29:36

Local clock offset: 1.875 ms

Remote clock offset: 1.657 ms

Below is generated by plot.py at 2017-11-16 14:03:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.82 Mbit/s

95th percentile per-packet one-way delay: 31.964 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 31.340 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 38.36 Mbit/s

95th percentile per-packet one-way delay: 31.066 ms

Loss rate: 0.30%

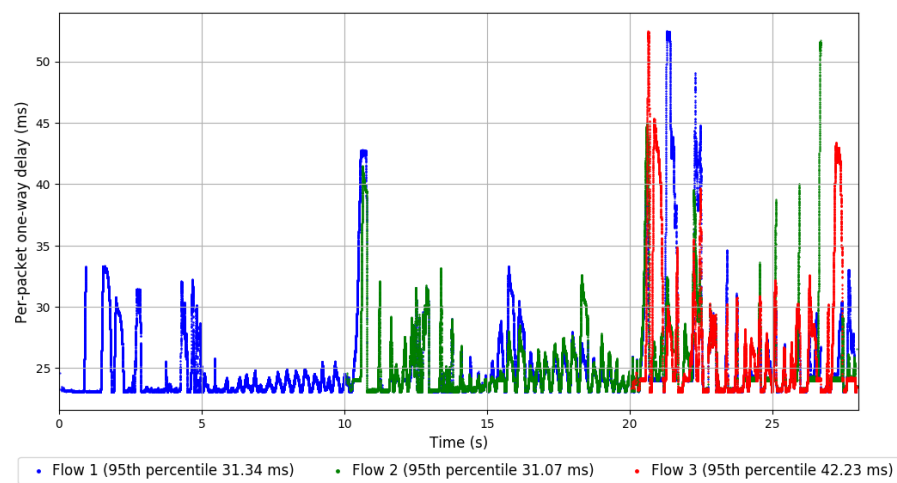
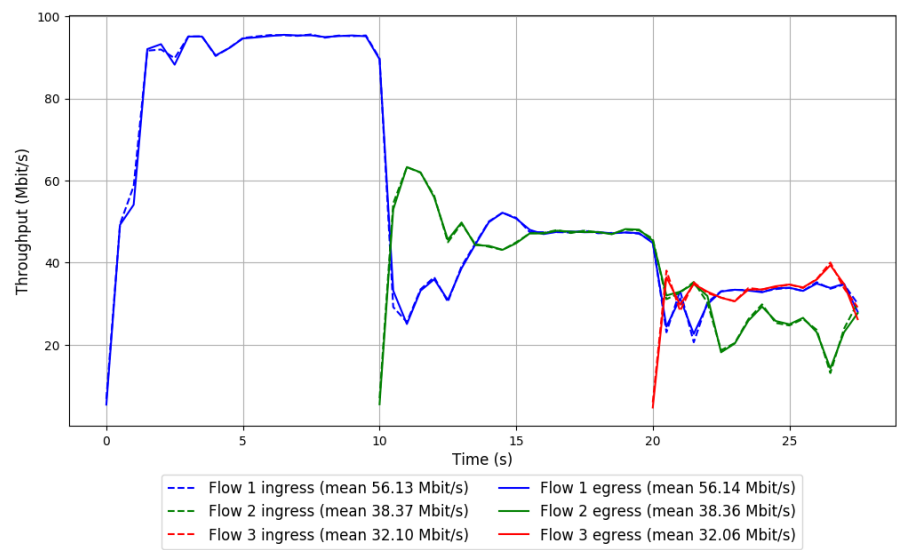
-- Flow 3:

Average throughput: 32.06 Mbit/s

95th percentile per-packet one-way delay: 42.225 ms

Loss rate: 0.81%

Run 7: Report of Copa — Data Link

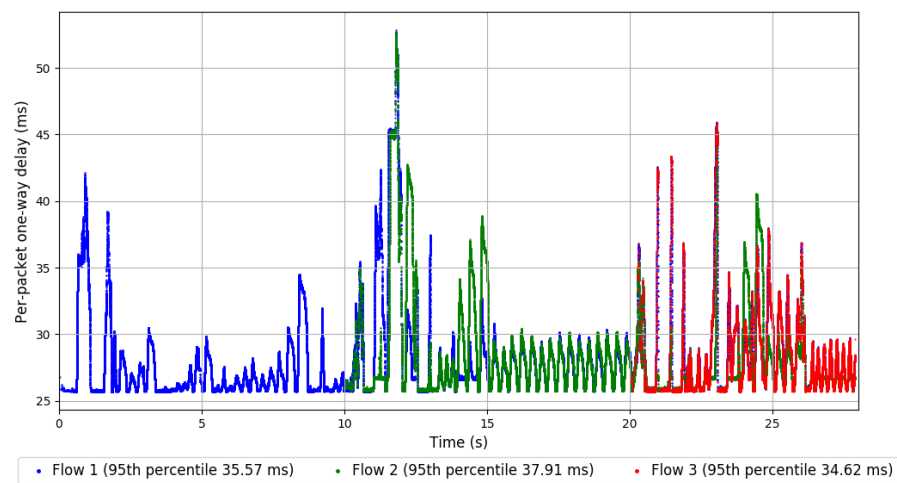
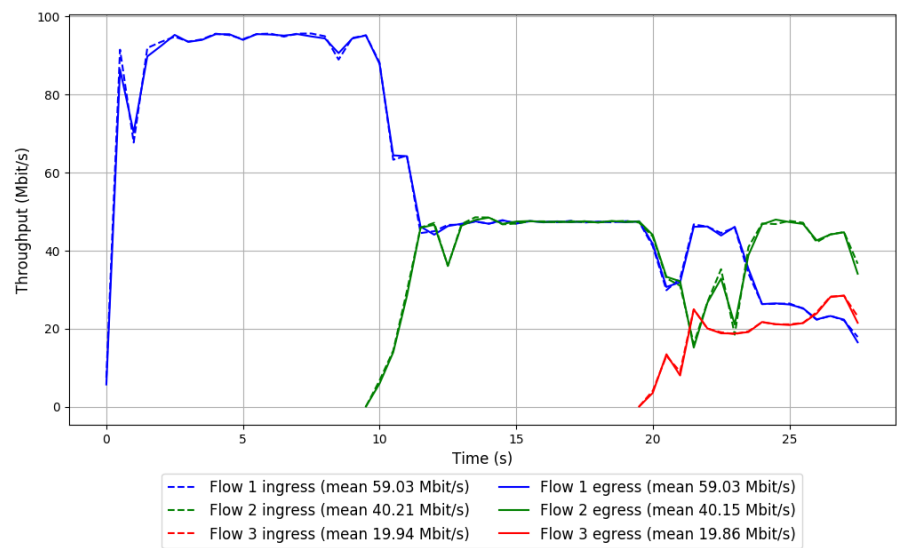


Run 8: Statistics of Copa

Start at: 2017-11-16 09:48:14
End at: 2017-11-16 09:48:44
Local clock offset: 1.674 ms
Remote clock offset: -0.861 ms

Below is generated by plot.py at 2017-11-16 14:03:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 35.942 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 59.03 Mbit/s
95th percentile per-packet one-way delay: 35.574 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 40.15 Mbit/s
95th percentile per-packet one-way delay: 37.913 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 19.86 Mbit/s
95th percentile per-packet one-way delay: 34.619 ms
Loss rate: 1.14%

Run 8: Report of Copa — Data Link

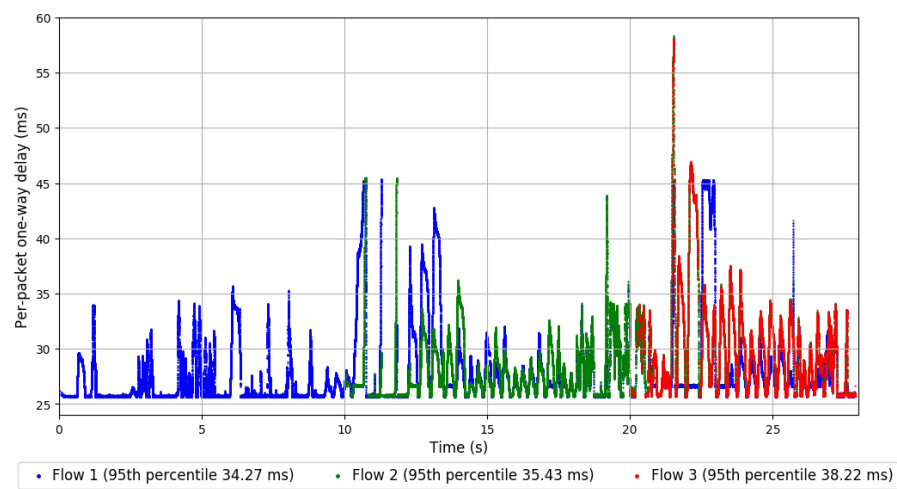
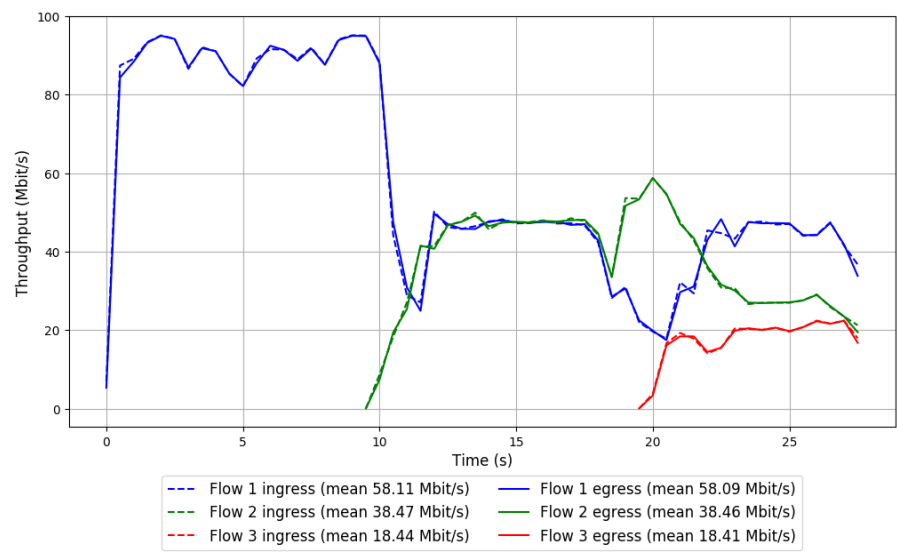


Run 9: Statistics of Copa

Start at: 2017-11-16 10:07:19
End at: 2017-11-16 10:07:49
Local clock offset: 1.26 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2017-11-16 14:04:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 35.244 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 34.272 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 35.431 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 18.41 Mbit/s
95th percentile per-packet one-way delay: 38.220 ms
Loss rate: 0.87%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 10:26:41

End at: 2017-11-16 10:27:11

Local clock offset: 0.953 ms

Remote clock offset: 1.357 ms

Below is generated by plot.py at 2017-11-16 14:05:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 30.249 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 61.20 Mbit/s

95th percentile per-packet one-way delay: 29.829 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 33.81 Mbit/s

95th percentile per-packet one-way delay: 29.925 ms

Loss rate: 0.25%

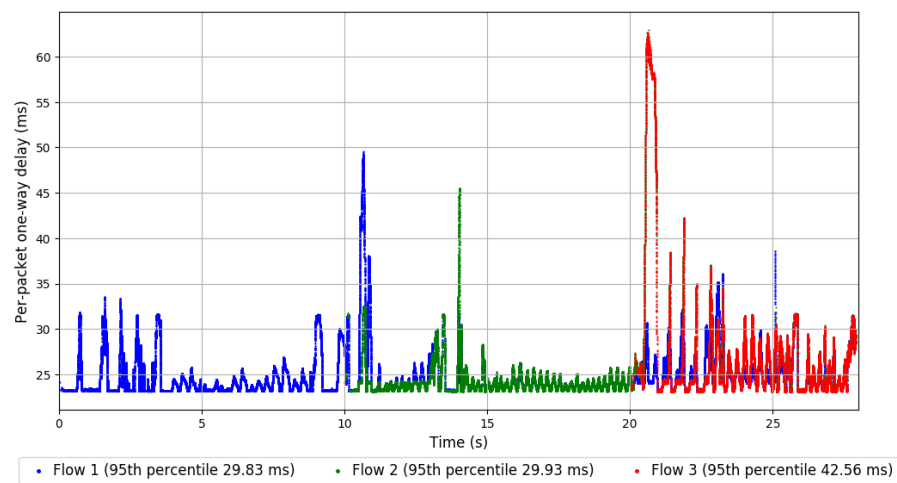
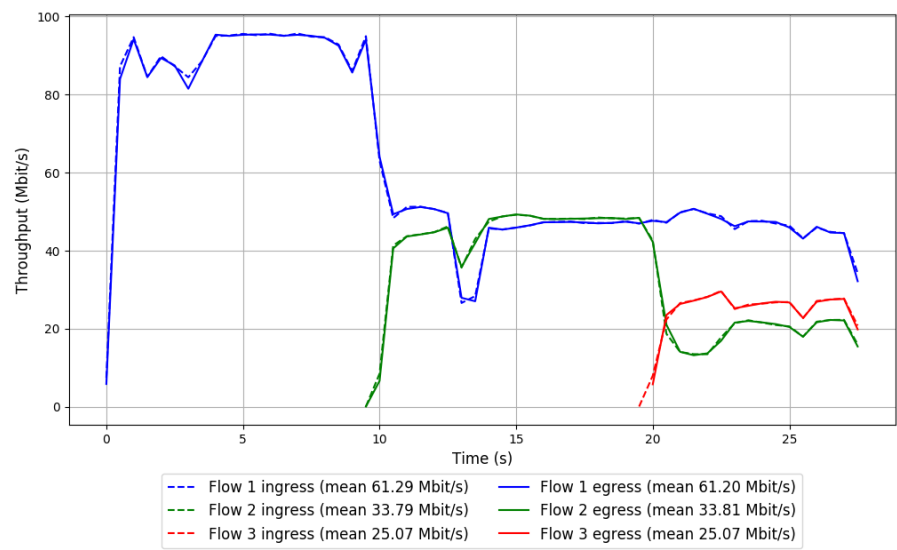
-- Flow 3:

Average throughput: 25.07 Mbit/s

95th percentile per-packet one-way delay: 42.563 ms

Loss rate: 0.69%

Run 10: Report of Copa — Data Link

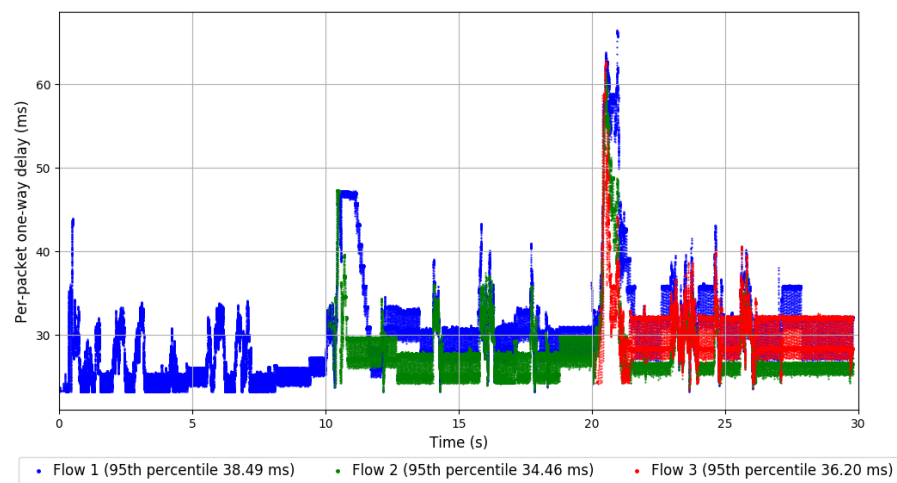
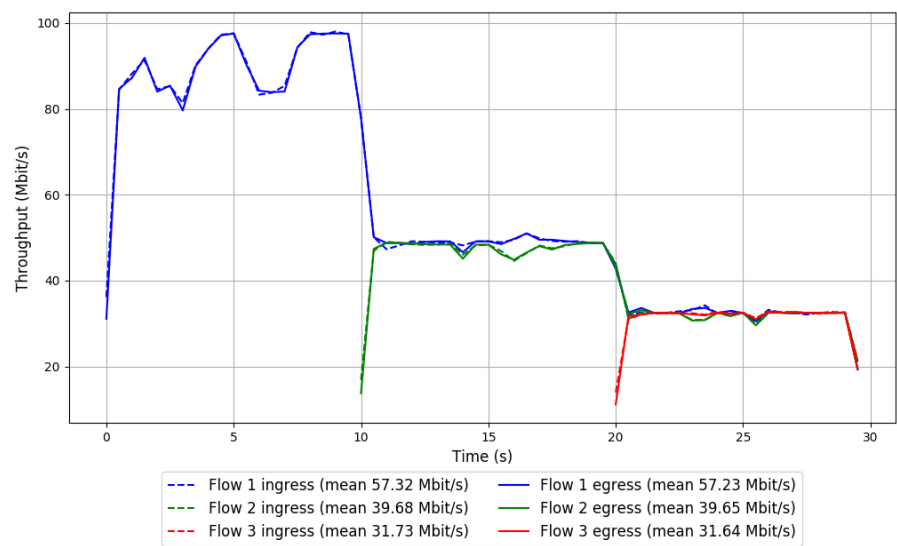


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 07:32:13
End at: 2017-11-16 07:32:43
Local clock offset: 0.688 ms
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2017-11-16 14:05:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 36.954 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 38.489 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 39.65 Mbit/s
95th percentile per-packet one-way delay: 34.462 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 36.198 ms
Loss rate: 0.82%
```


Run 1: Report of Indigo — Data Link

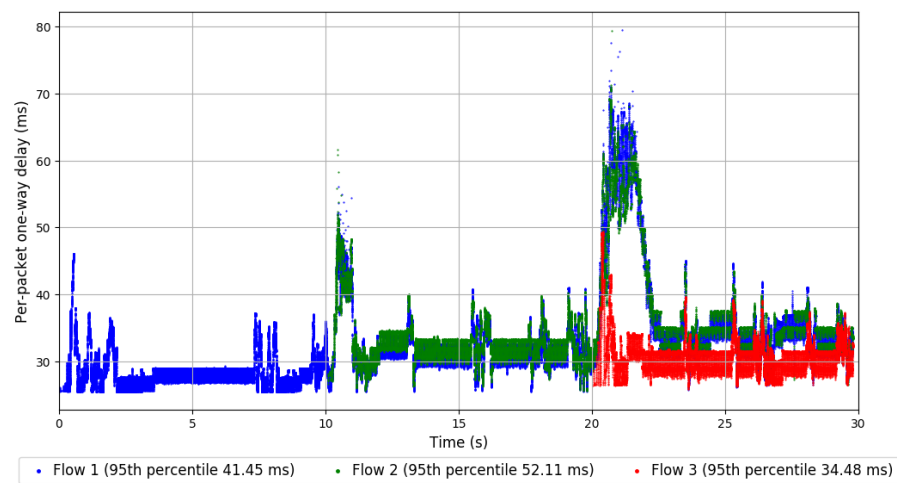
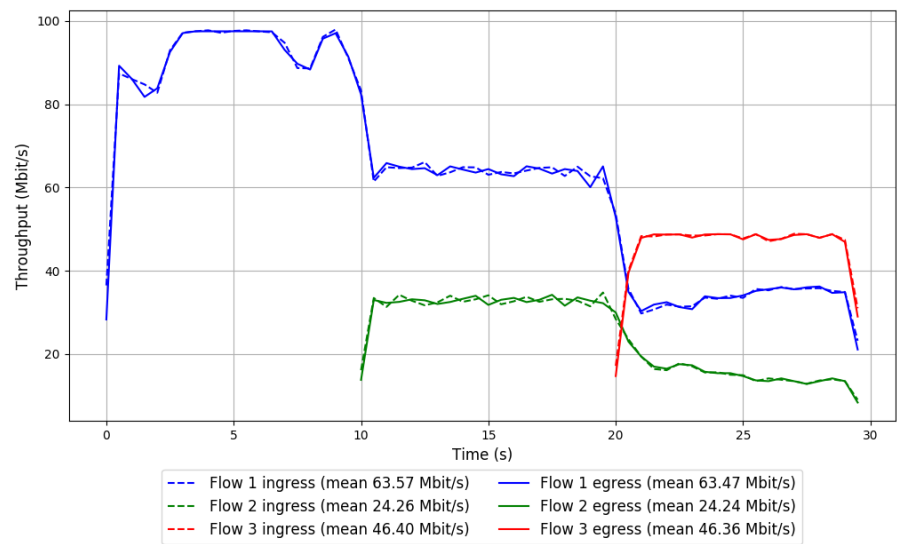


Run 2: Statistics of Indigo

Start at: 2017-11-16 07:51:35
End at: 2017-11-16 07:52:05
Local clock offset: 1.353 ms
Remote clock offset: -1.943 ms

Below is generated by plot.py at 2017-11-16 14:05:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 41.797 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 63.47 Mbit/s
95th percentile per-packet one-way delay: 41.452 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 24.24 Mbit/s
95th percentile per-packet one-way delay: 52.108 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 34.482 ms
Loss rate: 0.65%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 08:10:51

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

Local clock offset: 1.866 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2017-11-16 14:05:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 35.847 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 59.06 Mbit/s

95th percentile per-packet one-way delay: 40.597 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 31.183 ms

Loss rate: 0.34%

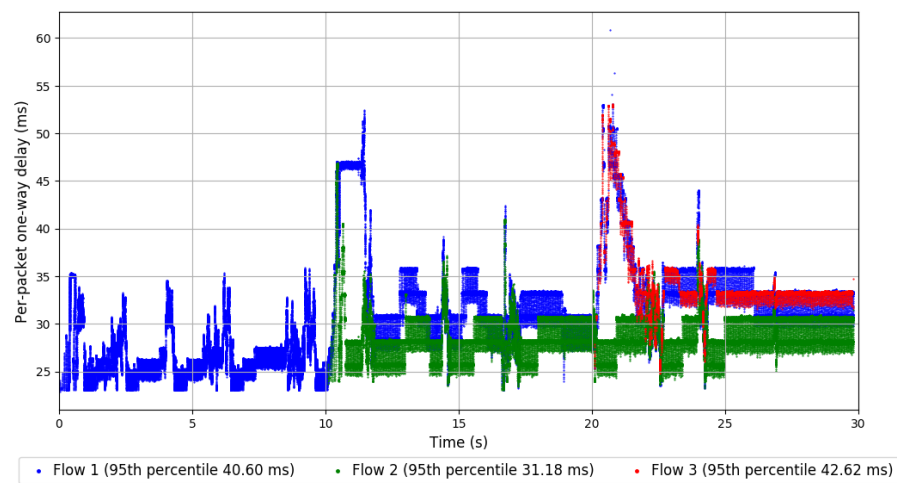
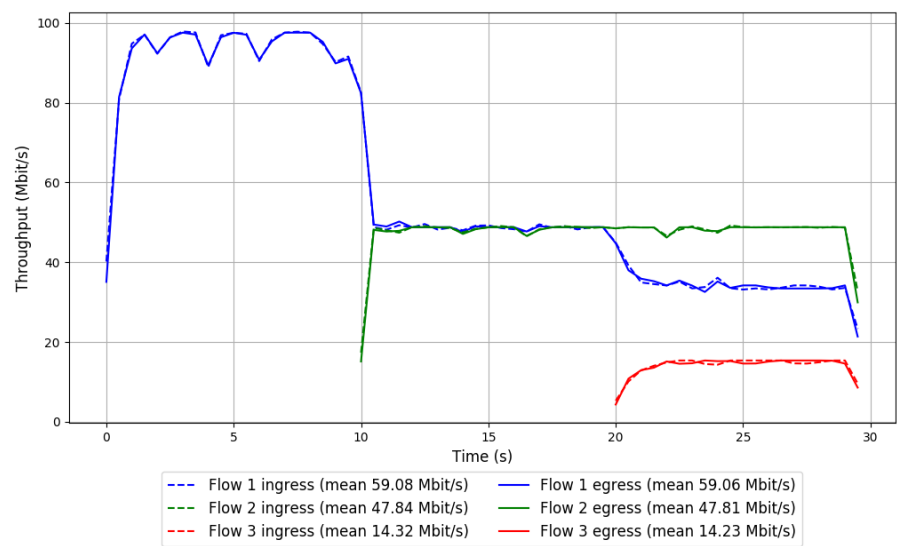
-- Flow 3:

Average throughput: 14.23 Mbit/s

95th percentile per-packet one-way delay: 42.622 ms

Loss rate: 0.73%

Run 3: Report of Indigo — Data Link

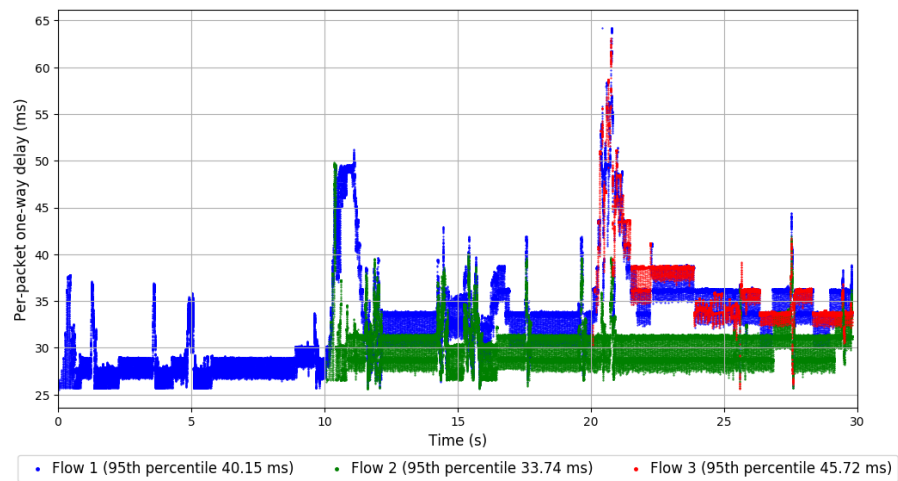
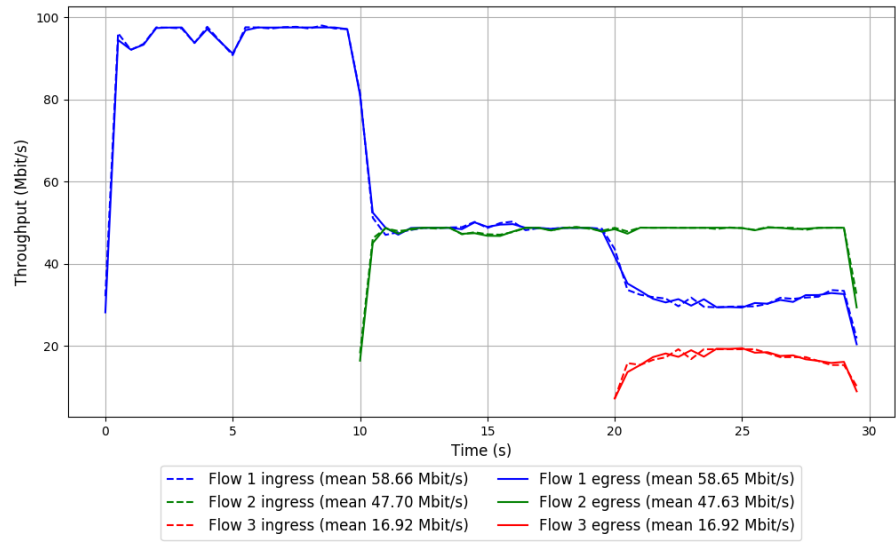


Run 4: Statistics of Indigo

Start at: 2017-11-16 08:30:01
End at: 2017-11-16 08:30:31
Local clock offset: 2.365 ms
Remote clock offset: -0.568 ms

Below is generated by plot.py at 2017-11-16 14:05:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 38.654 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 40.145 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 33.739 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 16.92 Mbit/s
95th percentile per-packet one-way delay: 45.716 ms
Loss rate: 0.59%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 08:49:16

End at: 2017-11-16 08:49:46

Local clock offset: 2.51 ms

Remote clock offset: 2.45 ms

Below is generated by plot.py at 2017-11-16 14:05:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 36.475 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 37.663 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 33.914 ms

Loss rate: 0.46%

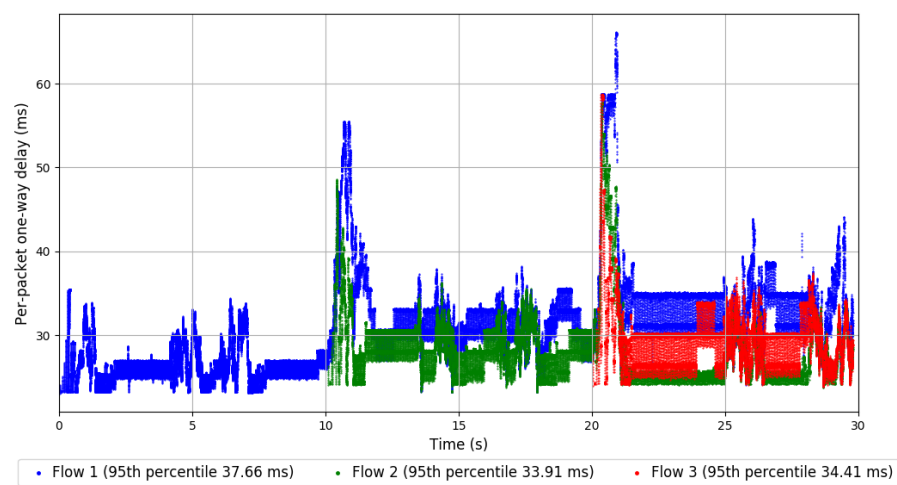
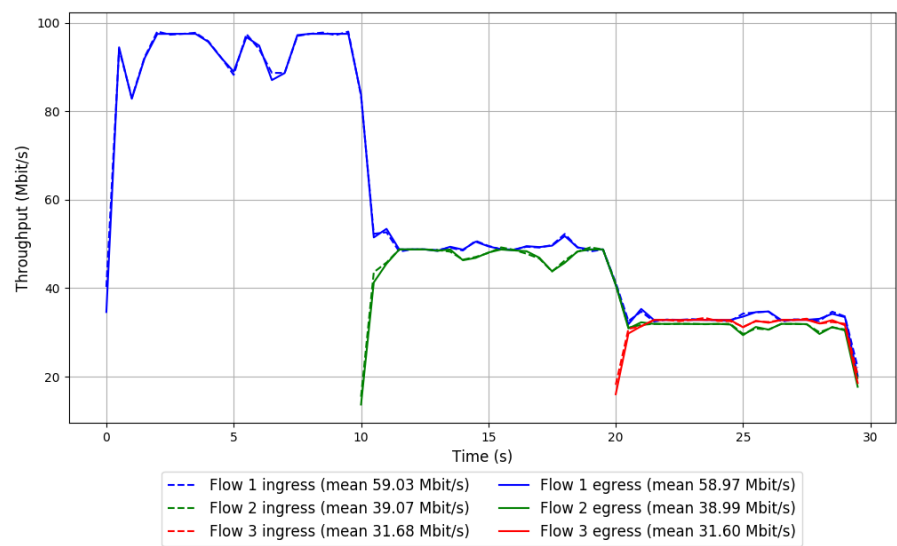
-- Flow 3:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 34.414 ms

Loss rate: 0.82%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 09:08:35

End at: 2017-11-16 09:09:05

Local clock offset: 2.099 ms

Remote clock offset: 1.564 ms

Below is generated by plot.py at 2017-11-16 14:05:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 36.609 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 56.61 Mbit/s

95th percentile per-packet one-way delay: 39.119 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 32.417 ms

Loss rate: 0.38%

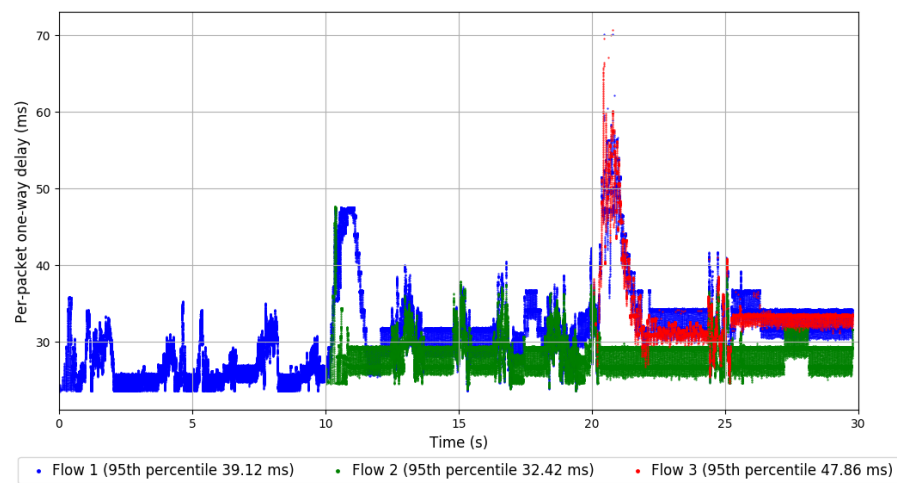
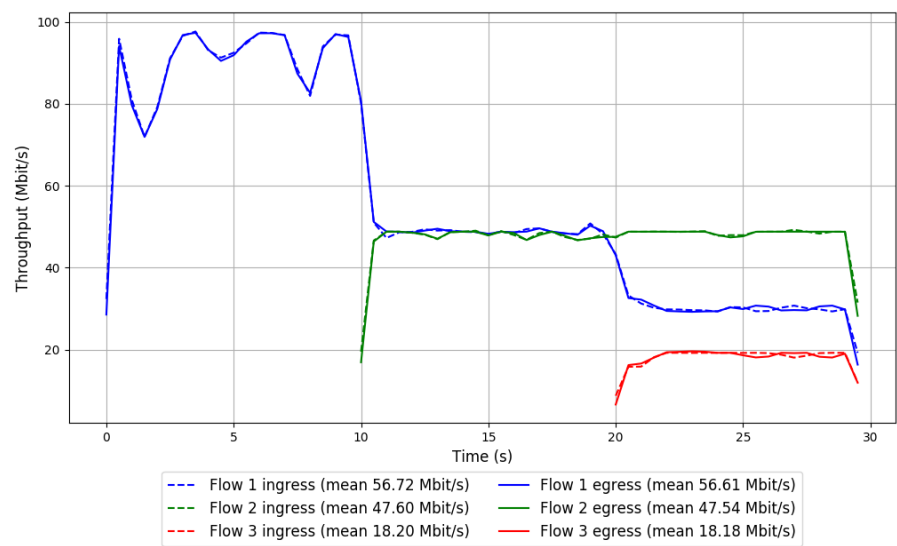
-- Flow 3:

Average throughput: 18.18 Mbit/s

95th percentile per-packet one-way delay: 47.859 ms

Loss rate: 0.74%

Run 6: Report of Indigo — Data Link

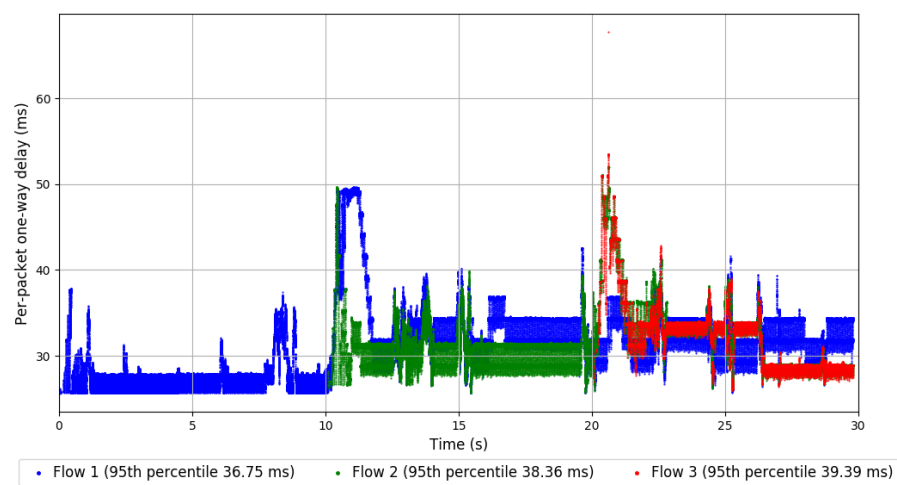
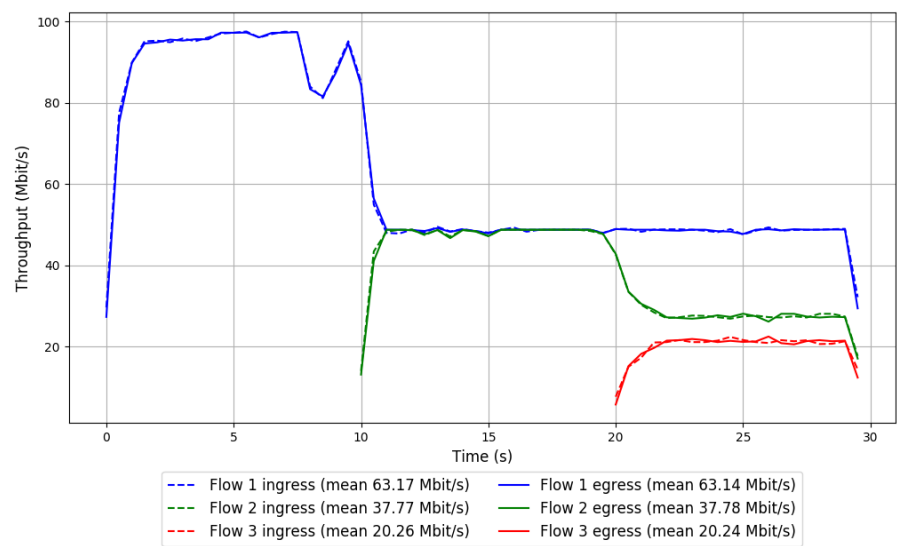


Run 7: Statistics of Indigo

Start at: 2017-11-16 09:27:43
End at: 2017-11-16 09:28:13
Local clock offset: 1.882 ms
Remote clock offset: -0.924 ms

Below is generated by plot.py at 2017-11-16 14:05:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 37.181 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 36.749 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 38.358 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 39.387 ms
Loss rate: 0.66%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 09:46:50

End at: 2017-11-16 09:47:20

Local clock offset: 1.654 ms

Remote clock offset: 1.201 ms

Below is generated by plot.py at 2017-11-16 14:05:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 37.899 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 60.55 Mbit/s

95th percentile per-packet one-way delay: 36.040 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 52.227 ms

Loss rate: 0.19%

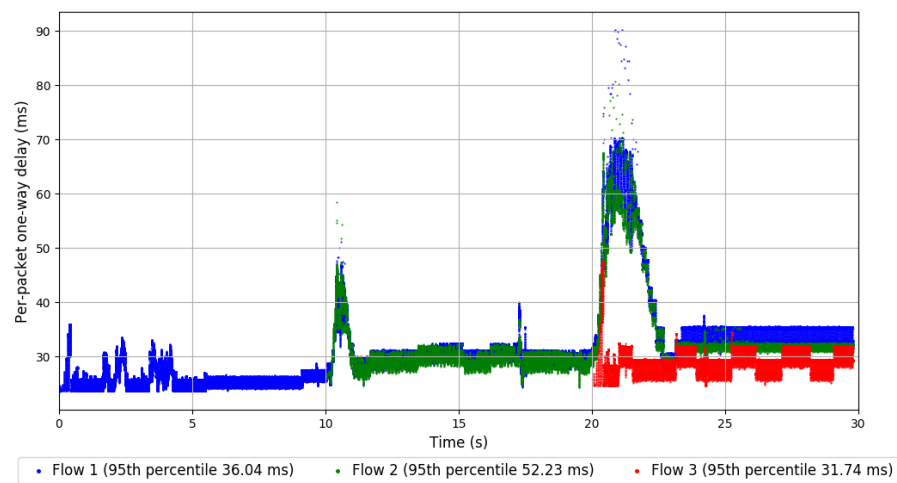
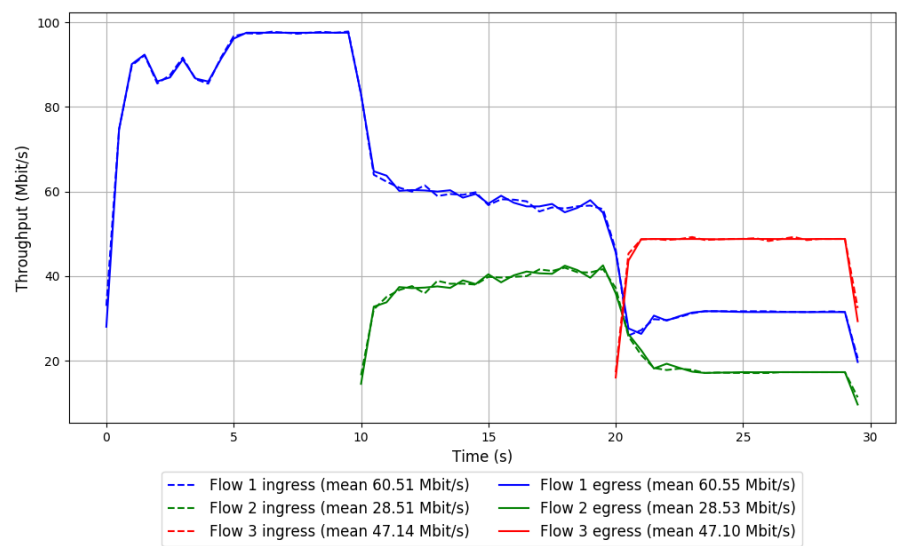
-- Flow 3:

Average throughput: 47.10 Mbit/s

95th percentile per-packet one-way delay: 31.741 ms

Loss rate: 0.65%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 10:05:55

End at: 2017-11-16 10:06:25

Local clock offset: 1.387 ms

Remote clock offset: 1.442 ms

Below is generated by plot.py at 2017-11-16 14:06:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 35.825 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 35.625 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 42.710 ms

Loss rate: 0.24%

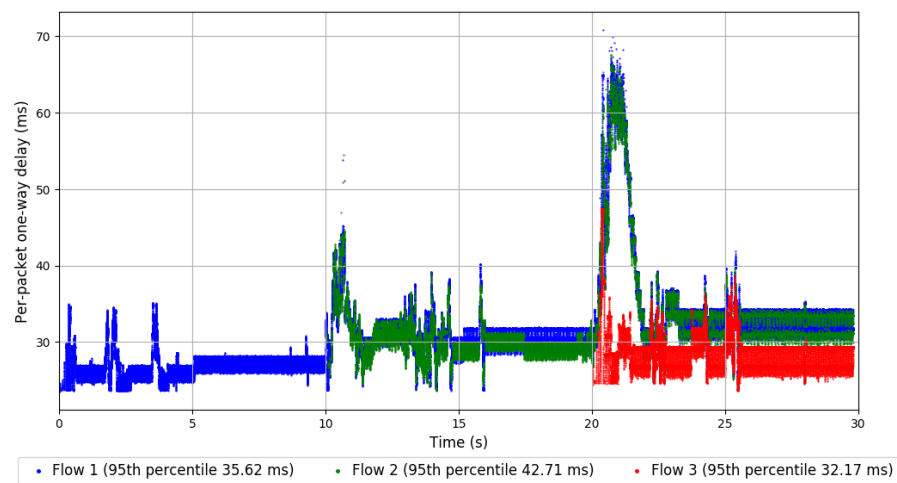
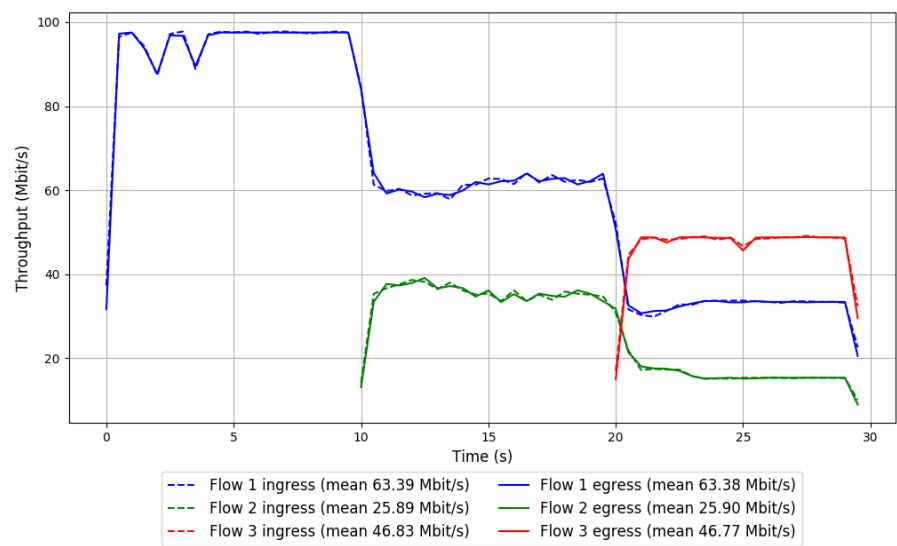
-- Flow 3:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 32.167 ms

Loss rate: 0.66%

Run 9: Report of Indigo — Data Link

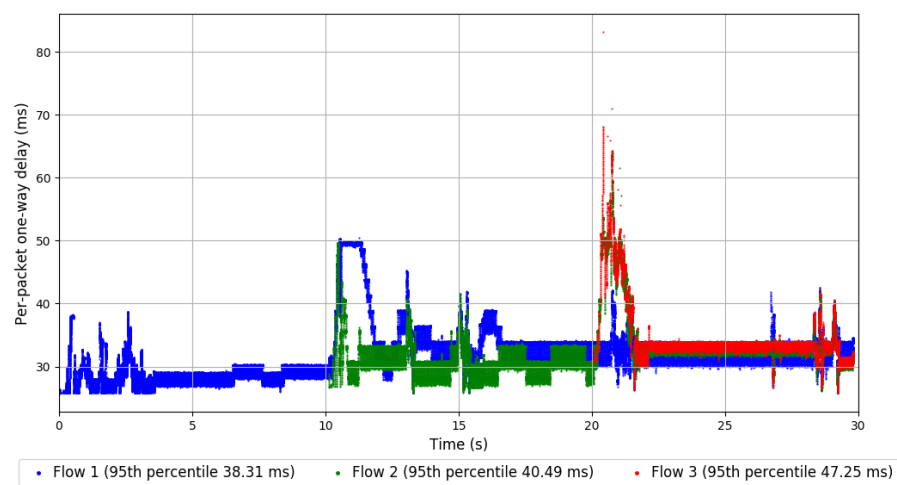
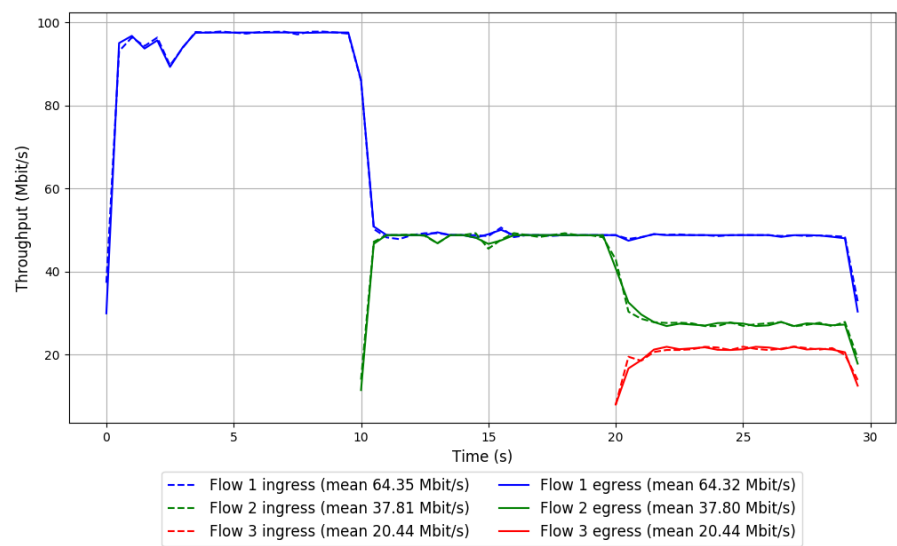


Run 10: Statistics of Indigo

Start at: 2017-11-16 10:25:15
End at: 2017-11-16 10:25:45
Local clock offset: 0.97 ms
Remote clock offset: -1.179 ms

Below is generated by plot.py at 2017-11-16 14:06:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 38.777 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 38.311 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 40.495 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 47.249 ms
Loss rate: 0.63%

Run 10: Report of Indigo — Data Link

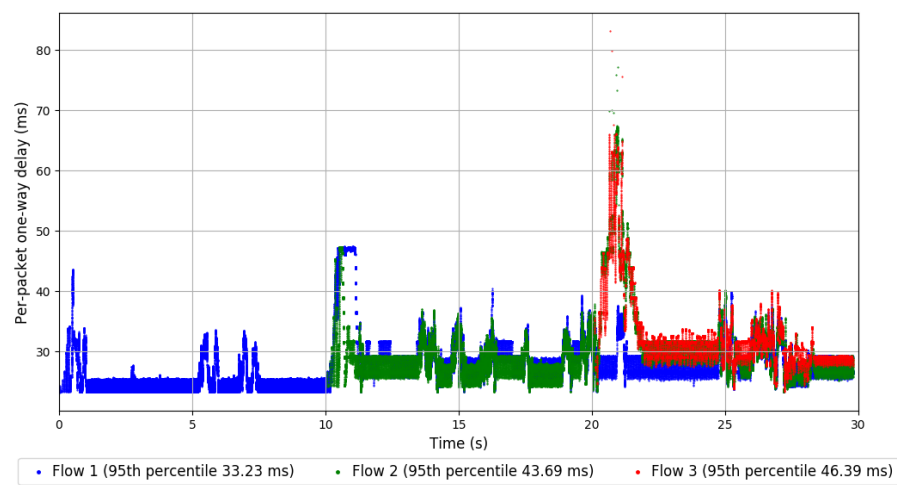
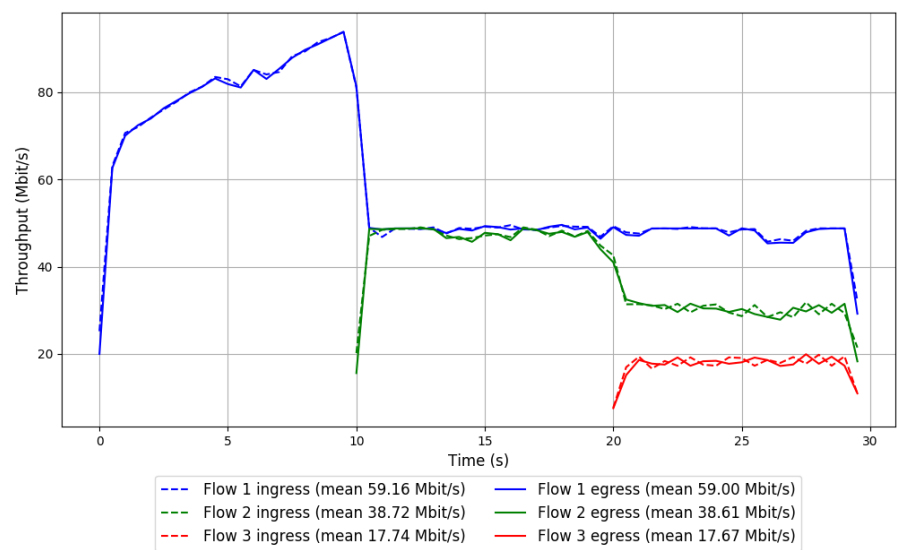


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 07:18:29
End at: 2017-11-16 07:18:59
Local clock offset: 0.468 ms
Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2017-11-16 14:06:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 35.962 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 33.227 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 43.690 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 17.67 Mbit/s
95th percentile per-packet one-way delay: 46.388 ms
Loss rate: 1.00%
```

Run 1: Report of Indigo-calib — Data Link

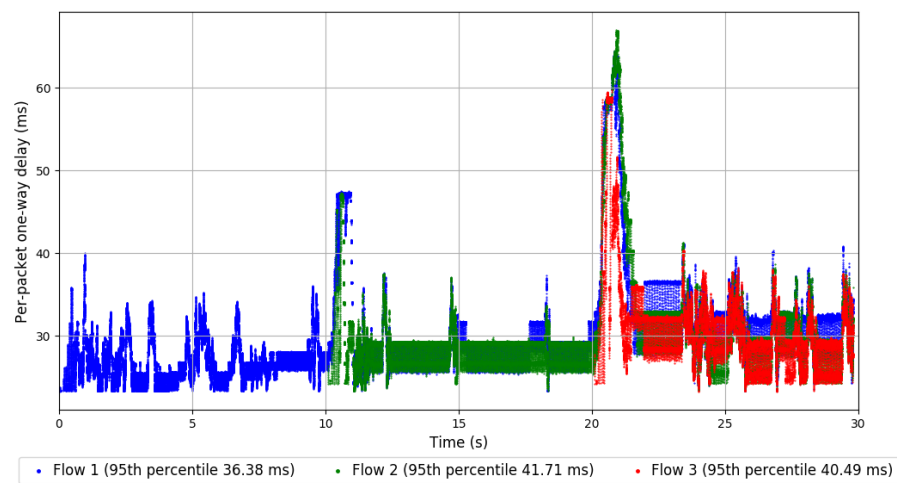
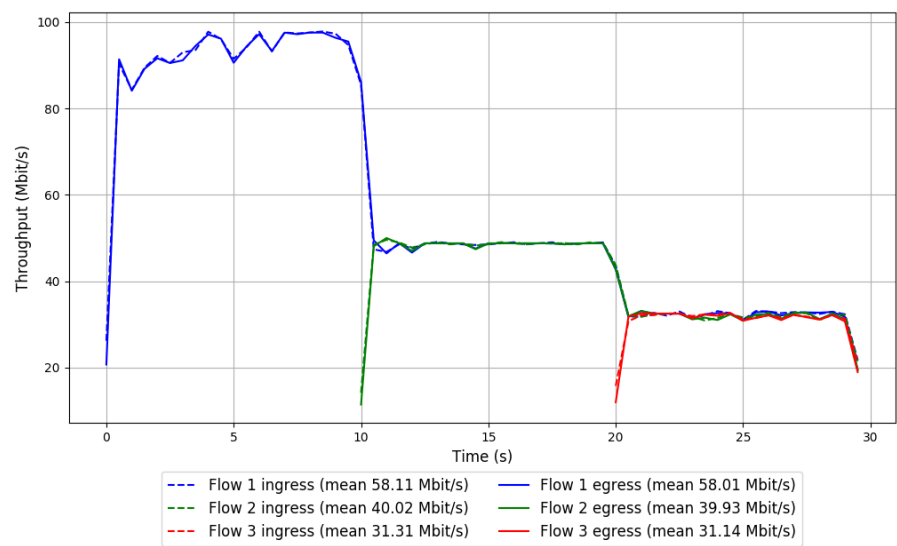


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 07:37:54
End at: 2017-11-16 07:38:24
Local clock offset: 0.911 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2017-11-16 14:06:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 36.925 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 36.385 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 41.714 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 40.493 ms
Loss rate: 1.11%
```

Run 2: Report of Indigo-calib — Data Link

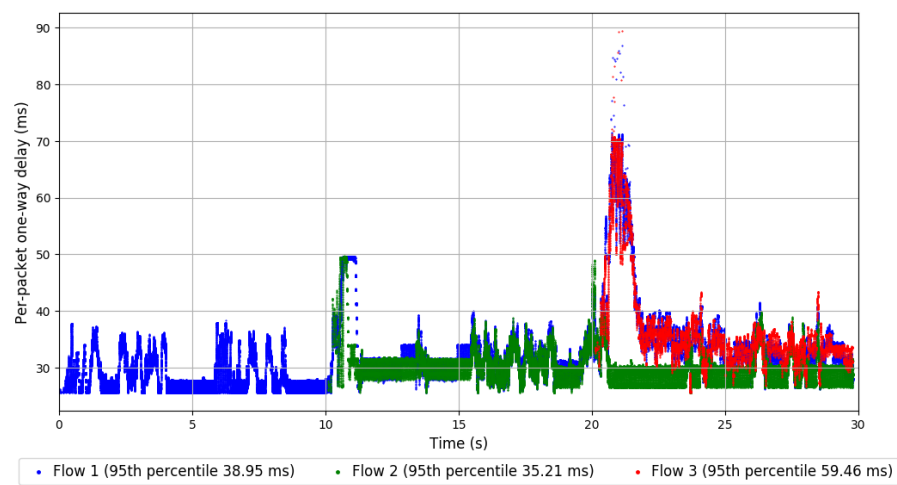
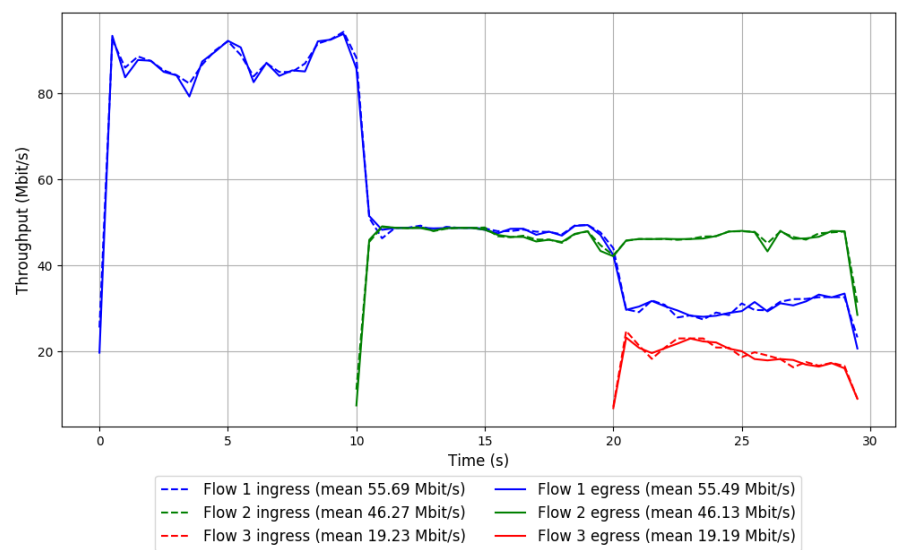


Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 07:57:11
End at: 2017-11-16 07:57:41
Local clock offset: 1.495 ms
Remote clock offset: -1.736 ms

Below is generated by plot.py at 2017-11-16 14:06:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 38.621 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 55.49 Mbit/s
95th percentile per-packet one-way delay: 38.949 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 46.13 Mbit/s
95th percentile per-packet one-way delay: 35.211 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 19.19 Mbit/s
95th percentile per-packet one-way delay: 59.461 ms
Loss rate: 0.86%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 08:16:27

End at: 2017-11-16 08:16:57

Local clock offset: 2.03 ms

Remote clock offset: 1.154 ms

Below is generated by plot.py at 2017-11-16 14:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 35.444 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 32.418 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 43.970 ms

Loss rate: 0.40%

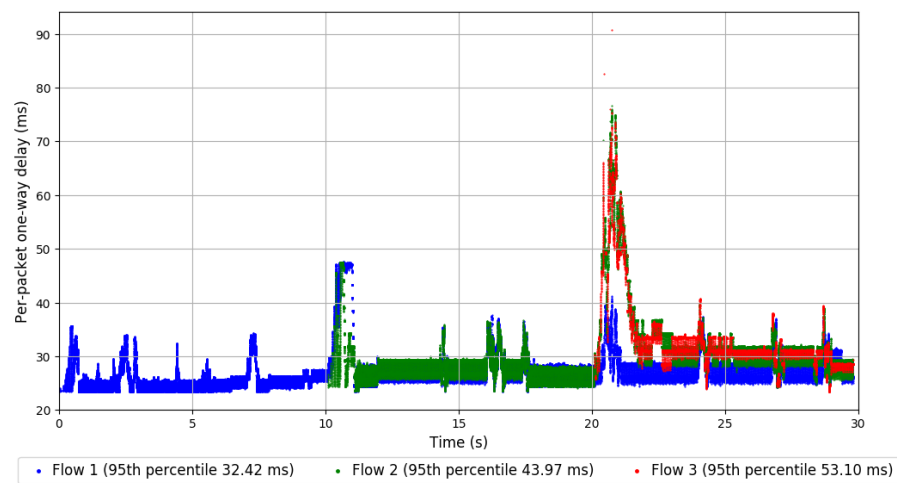
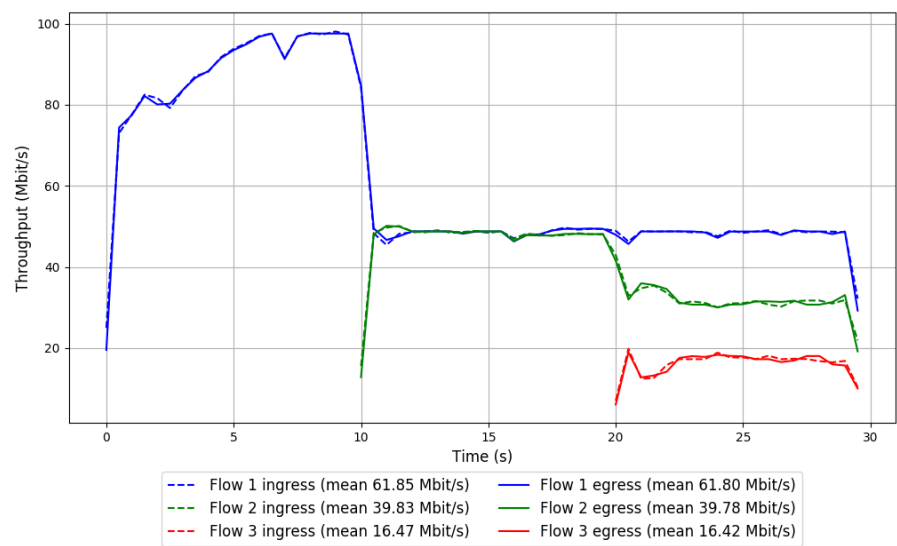
-- Flow 3:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.84%

Run 4: Report of Indigo-calib — Data Link

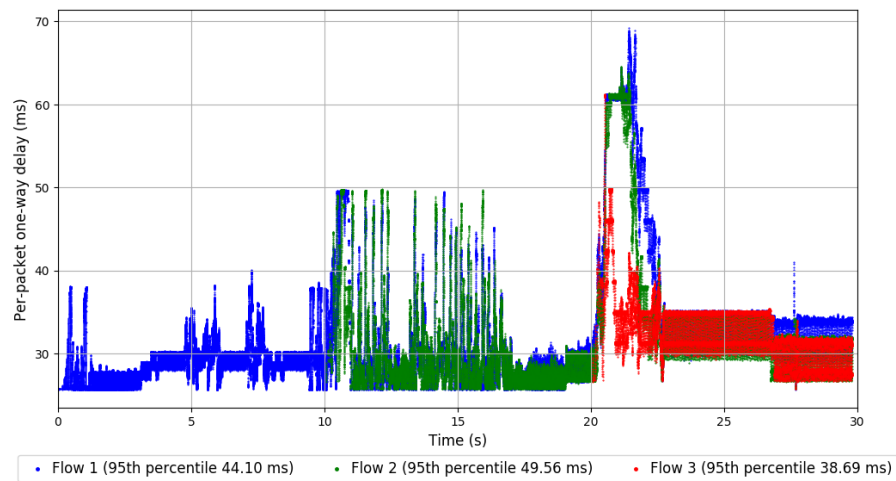
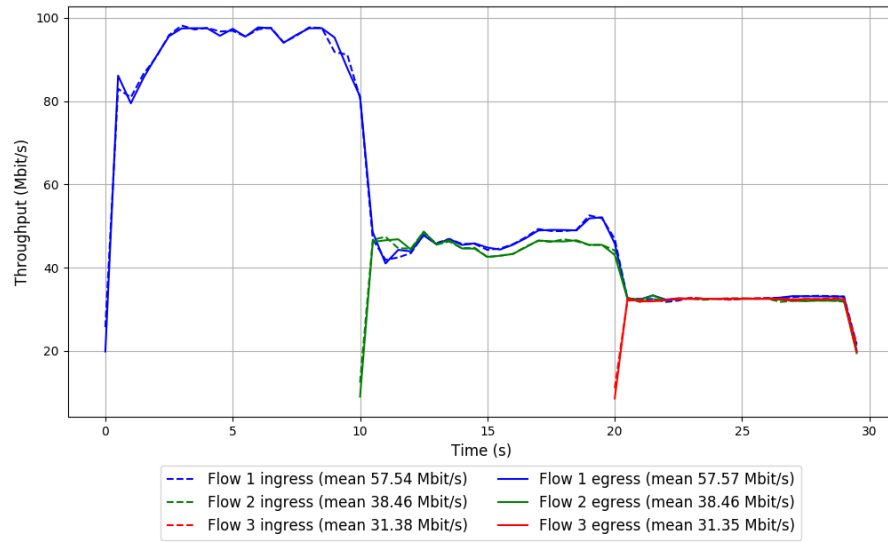


Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 08:35:37
End at: 2017-11-16 08:36:07
Local clock offset: 2.537 ms
Remote clock offset: -0.451 ms

Below is generated by plot.py at 2017-11-16 14:06:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 45.808 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 57.57 Mbit/s
95th percentile per-packet one-way delay: 44.105 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 49.564 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 38.690 ms
Loss rate: 0.65%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 08:54:59

End at: 2017-11-16 08:55:29

Local clock offset: 2.405 ms

Remote clock offset: 1.929 ms

Below is generated by plot.py at 2017-11-16 14:07:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 38.386 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 38.426 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 47.39 Mbit/s

95th percentile per-packet one-way delay: 32.194 ms

Loss rate: 0.32%

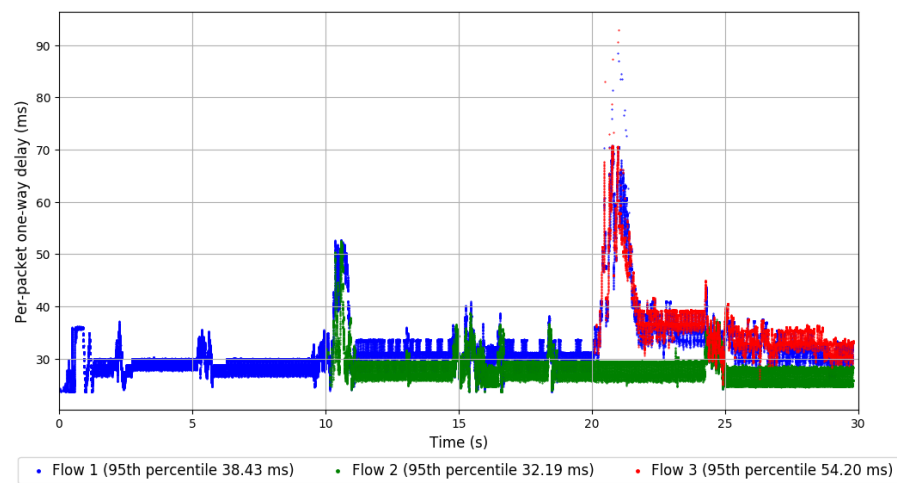
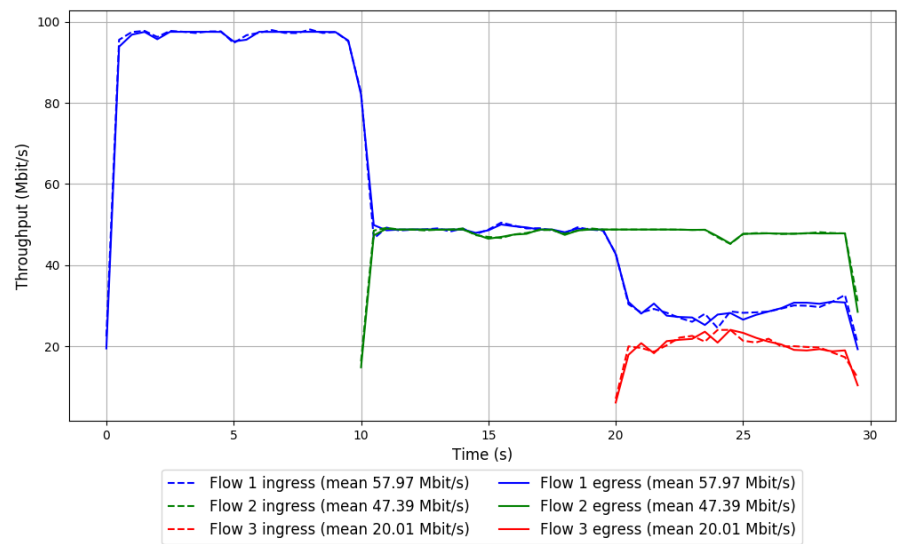
-- Flow 3:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 54.201 ms

Loss rate: 0.60%

Run 6: Report of Indigo-calib — Data Link

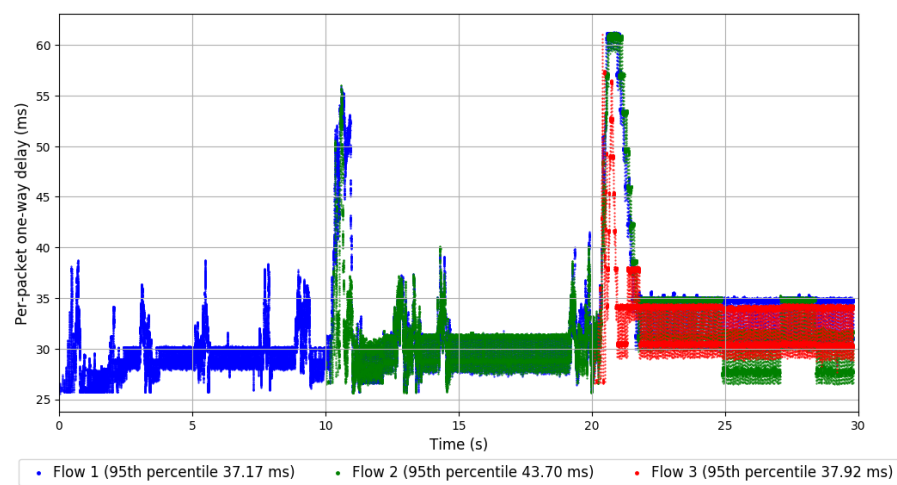
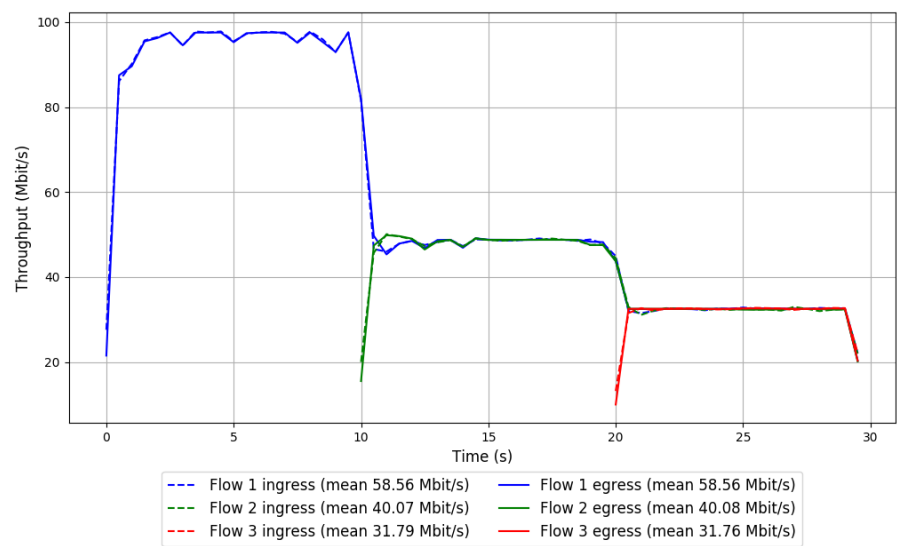


Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 09:14:09
End at: 2017-11-16 09:14:39
Local clock offset: 1.943 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2017-11-16 14:07:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 38.393 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 58.56 Mbit/s
95th percentile per-packet one-way delay: 37.172 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 43.698 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 37.921 ms
Loss rate: 0.65%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

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

End at: 2017-11-16 09:33:46

Local clock offset: 1.74 ms

Remote clock offset: 1.14 ms

Below is generated by plot.py at 2017-11-16 14:07:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 34.419 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 32.048 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 41.12 Mbit/s

95th percentile per-packet one-way delay: 40.871 ms

Loss rate: 0.34%

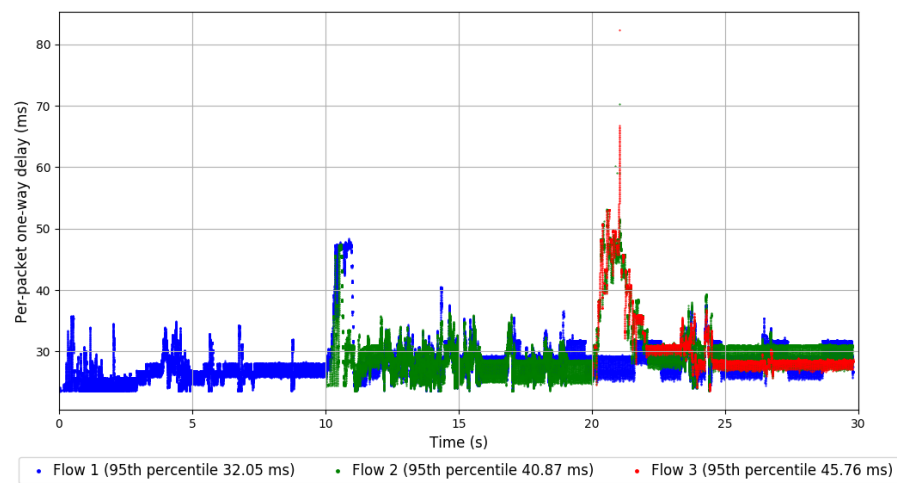
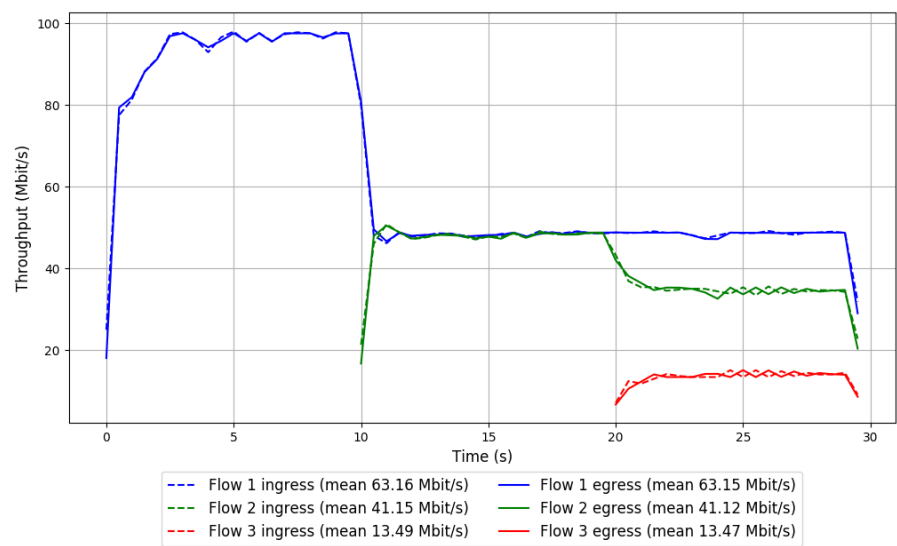
-- Flow 3:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 45.755 ms

Loss rate: 0.67%

Run 8: Report of Indigo-calib — Data Link

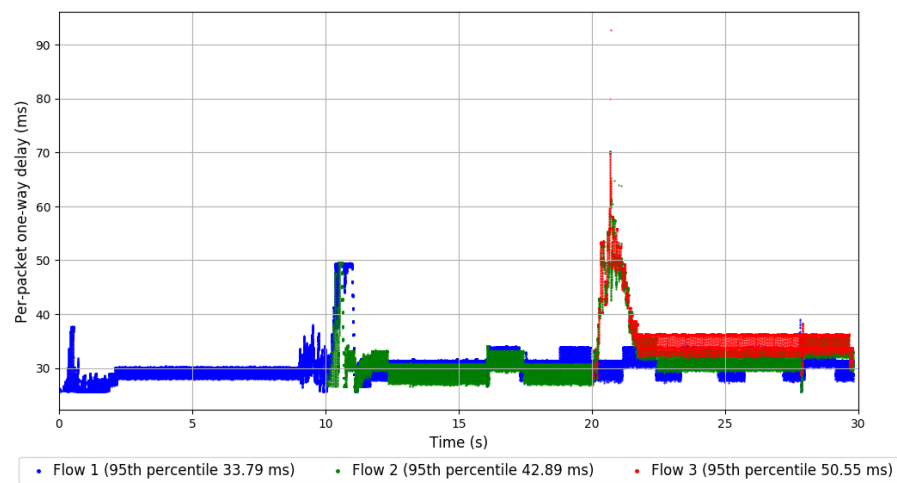
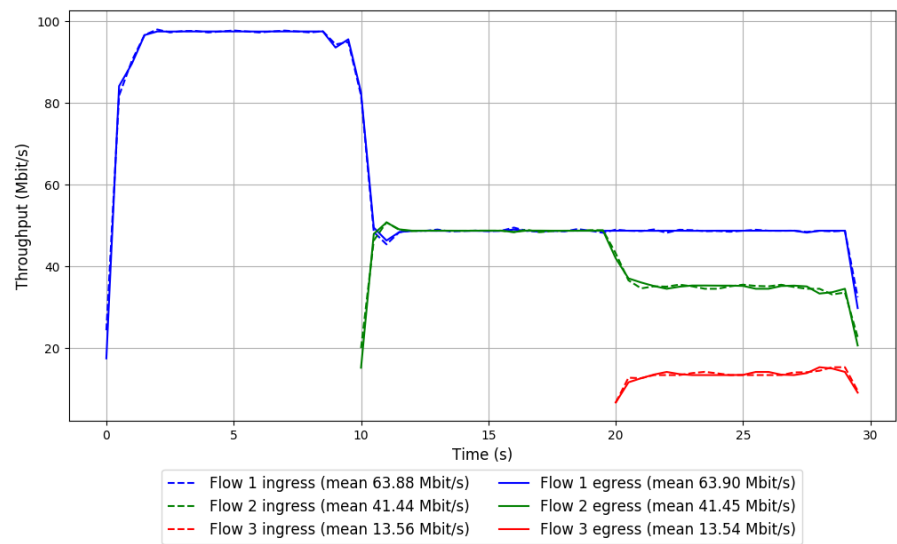


Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 09:52:22
End at: 2017-11-16 09:52:52
Local clock offset: 1.615 ms
Remote clock offset: -0.775 ms

Below is generated by plot.py at 2017-11-16 14:07:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 36.203 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 63.90 Mbit/s
95th percentile per-packet one-way delay: 33.794 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 42.892 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 13.54 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.73%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 10:11:30

End at: 2017-11-16 10:12:00

Local clock offset: 1.266 ms

Remote clock offset: 1.559 ms

Below is generated by plot.py at 2017-11-16 14:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 38.302 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 35.986 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 43.465 ms

Loss rate: 0.31%

-- Flow 3:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 43.334 ms

Loss rate: 0.68%

Run 10: Report of Indigo-calib — Data Link

