

Pantheon Report

Generated at 2018-04-04 01:27:57 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

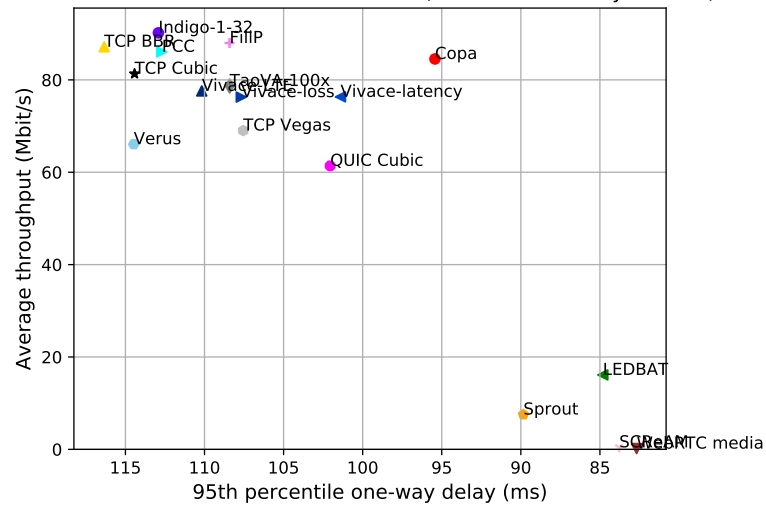
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

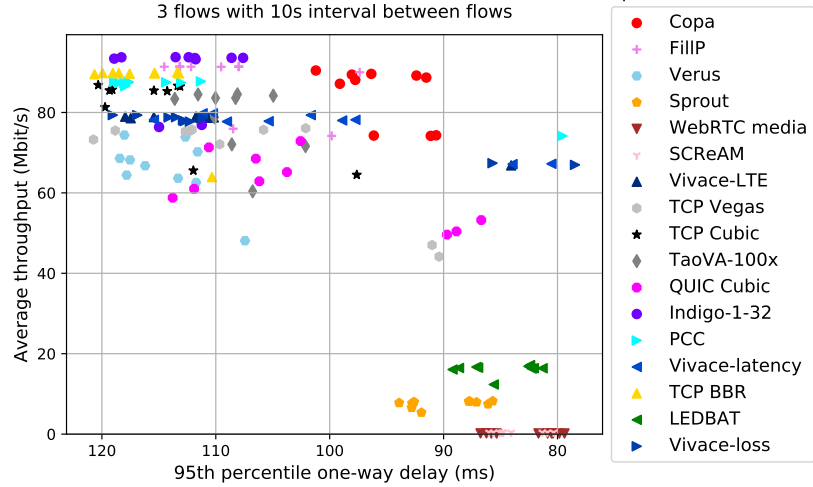
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	53.23	37.36	28.04	115.58	116.30	116.28	1.36	2.21	3.78
TCP Cubic	10	47.80	35.49	30.49	113.79	114.71	114.62	0.68	1.51	3.71
LEDBAT	10	10.35	7.03	3.41	84.43	84.71	83.75	1.20	1.85	3.65
PCC	10	57.91	29.36	26.82	112.19	112.80	112.69	1.81	4.58	8.15
QUIC Cubic	10	35.93	30.69	15.72	102.06	101.19	100.61	1.34	1.28	2.44
SCReAM	10	0.22	0.22	0.22	82.82	83.26	82.99	0.64	0.84	1.57
WebRTC media	10	0.06	0.06	0.05	81.69	82.39	82.16	0.06	0.01	0.30
Sprout	10	3.94	3.85	3.20	89.88	89.35	89.86	0.67	1.10	2.78
TaoVA-100x	10	48.03	37.56	19.64	106.55	108.46	110.87	3.49	4.64	4.97
TCP Vegas	10	34.02	39.78	26.29	105.19	107.81	107.70	0.73	1.08	2.42
Verus	10	36.10	33.75	23.23	113.08	114.52	116.42	1.64	1.74	3.32
Copa	10	70.42	15.33	11.99	95.06	94.66	96.62	4.50	8.94	7.15
FillP	10	50.86	41.09	30.21	106.88	108.55	109.94	2.96	6.34	11.69
Indigo-1-32	10	61.61	30.70	25.61	112.14	113.08	114.14	3.47	4.83	5.56
Vivace-latency	10	59.45	19.43	12.28	100.39	101.16	101.88	1.15	1.85	5.76
Vivace-loss	10	51.86	26.53	21.01	107.35	107.06	107.88	1.62	5.33	12.48
Vivace-LTE	10	52.10	28.60	20.15	108.86	110.36	110.84	1.45	2.15	6.57

Run 1: Statistics of TCP BBR

Start at: 2018-04-03 17:12:18

End at: 2018-04-03 17:12:48

Local clock offset: -7.582 ms

Remote clock offset: 6.222 ms

Below is generated by plot.py at 2018-04-04 01:04:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.51 Mbit/s

95th percentile per-packet one-way delay: 120.648 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 54.98 Mbit/s

95th percentile per-packet one-way delay: 120.263 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 37.67 Mbit/s

95th percentile per-packet one-way delay: 121.002 ms

Loss rate: 0.89%

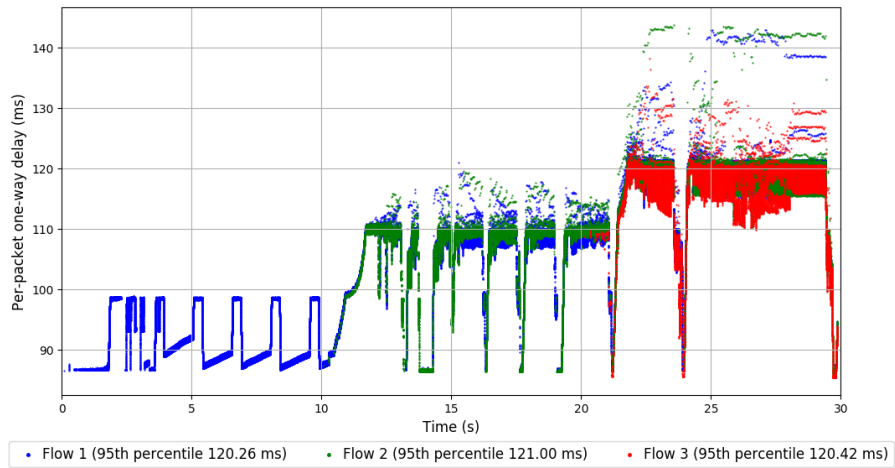
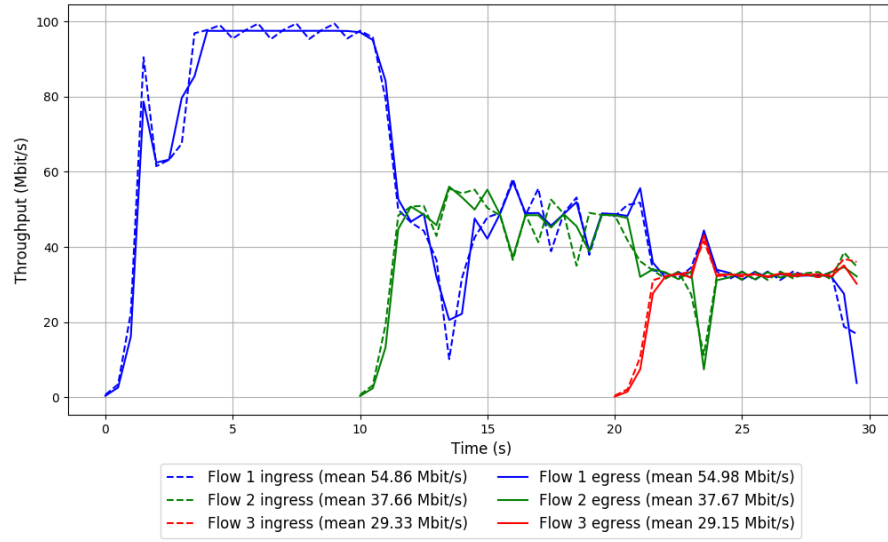
-- Flow 3:

Average throughput: 29.15 Mbit/s

95th percentile per-packet one-way delay: 120.422 ms

Loss rate: 2.67%

Run 1: Report of TCP BBR — Data Link

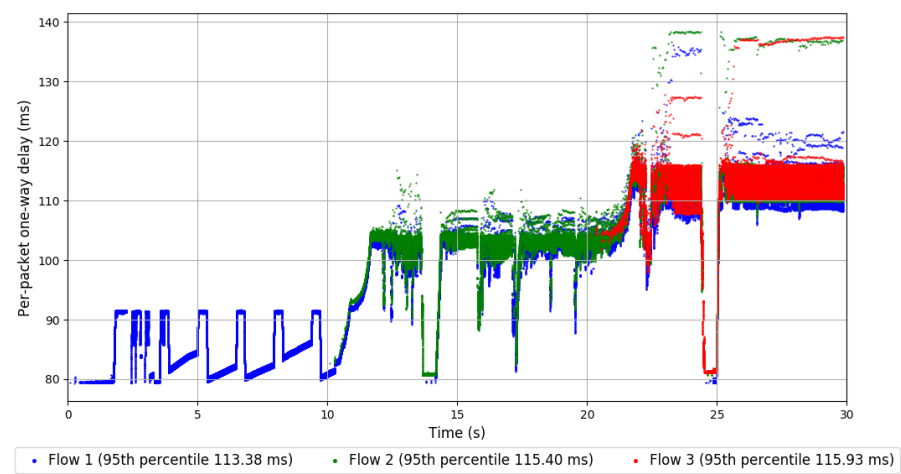
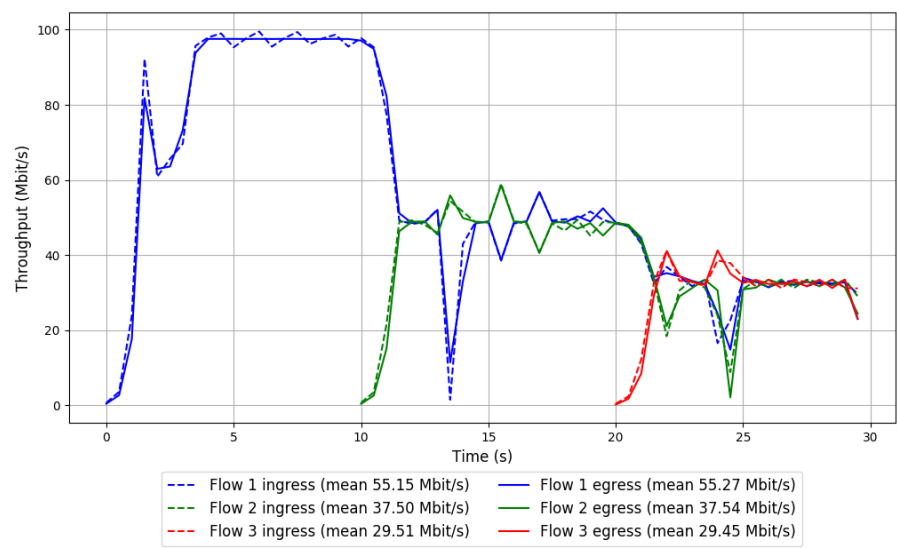


Run 2: Statistics of TCP BBR

Start at: 2018-04-03 17:36:17
End at: 2018-04-03 17:36:47
Local clock offset: -2.621 ms
Remote clock offset: 11.664 ms

Below is generated by plot.py at 2018-04-04 01:04:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 115.355 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 55.27 Mbit/s
95th percentile per-packet one-way delay: 113.382 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 115.400 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 29.45 Mbit/s
95th percentile per-packet one-way delay: 115.928 ms
Loss rate: 2.50%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-03 18:00:07

End at: 2018-04-03 18:00:37

Local clock offset: -5.406 ms

Remote clock offset: 6.014 ms

Below is generated by plot.py at 2018-04-04 01:04:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.81 Mbit/s

95th percentile per-packet one-way delay: 119.039 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 54.74 Mbit/s

95th percentile per-packet one-way delay: 118.285 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 37.94 Mbit/s

95th percentile per-packet one-way delay: 119.926 ms

Loss rate: 1.07%

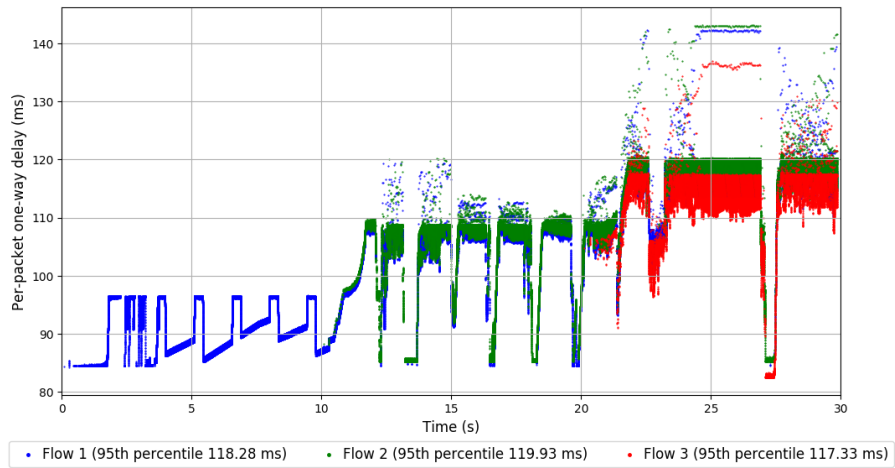
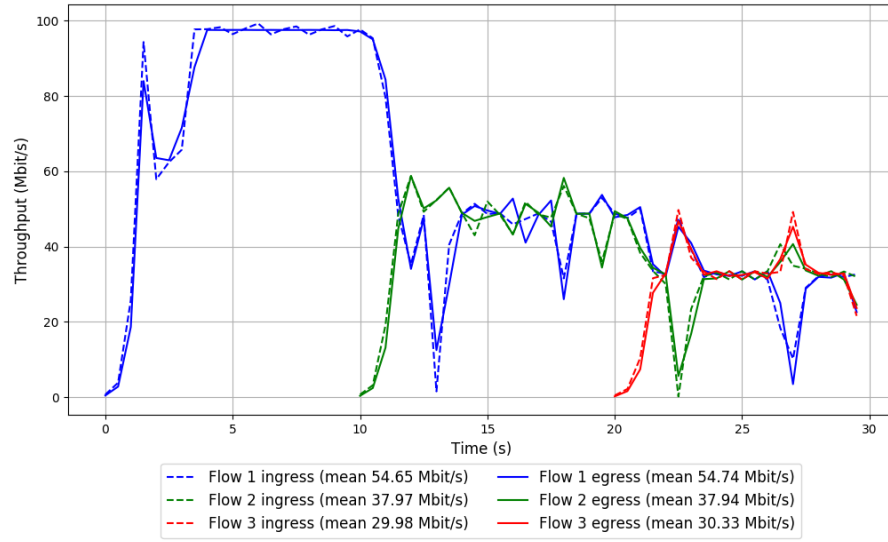
-- Flow 3:

Average throughput: 30.33 Mbit/s

95th percentile per-packet one-way delay: 117.335 ms

Loss rate: 0.90%

Run 3: Report of TCP BBR — Data Link

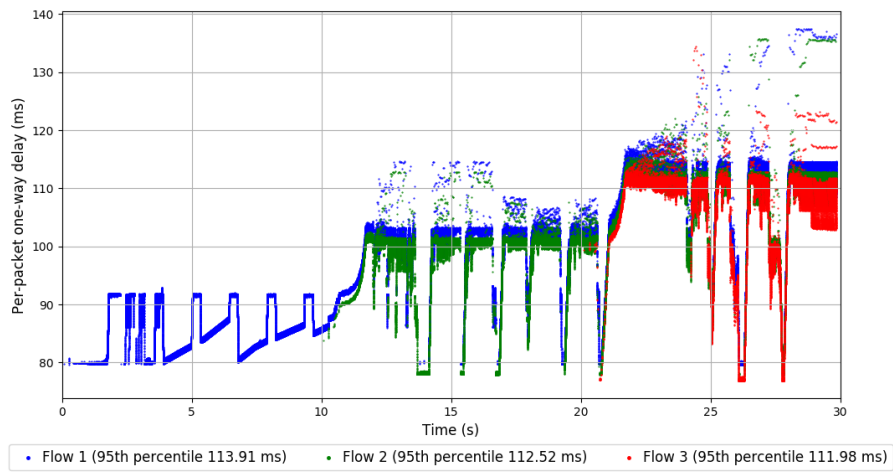
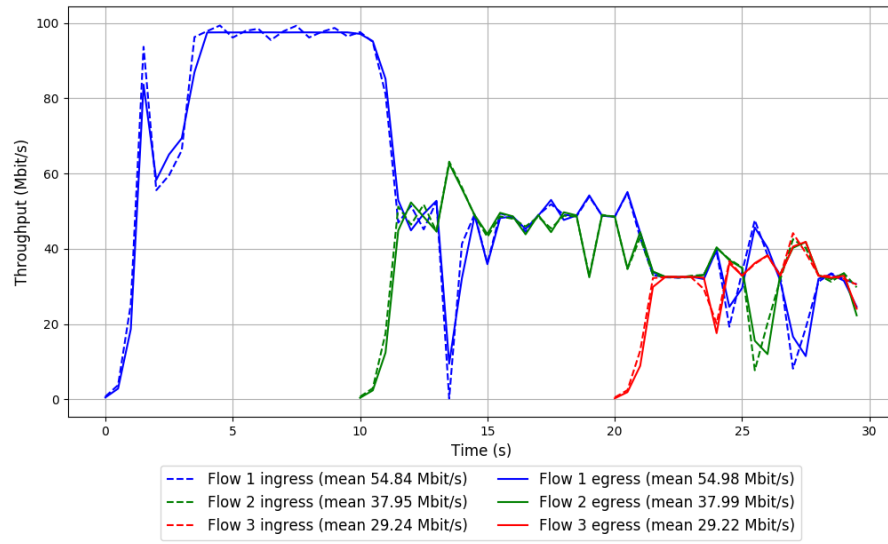


Run 4: Statistics of TCP BBR

Start at: 2018-04-03 18:23:53
End at: 2018-04-03 18:24:23
Local clock offset: -5.603 ms
Remote clock offset: 10.213 ms

Below is generated by plot.py at 2018-04-04 01:04:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 113.243 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 54.98 Mbit/s
95th percentile per-packet one-way delay: 113.909 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 112.524 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 111.979 ms
Loss rate: 2.32%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-03 18:47:40

End at: 2018-04-03 18:48:10

Local clock offset: -1.958 ms

Remote clock offset: 3.817 ms

Below is generated by plot.py at 2018-04-04 01:04:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.78 Mbit/s

95th percentile per-packet one-way delay: 118.509 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 119.395 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 117.732 ms

Loss rate: 0.95%

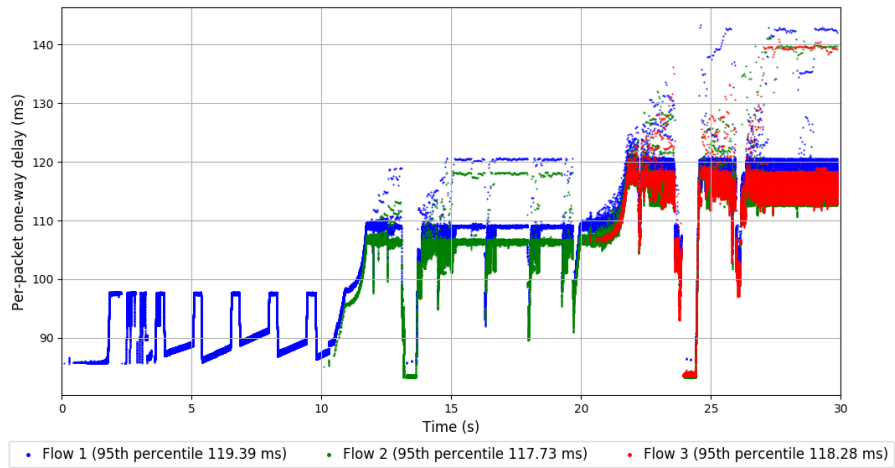
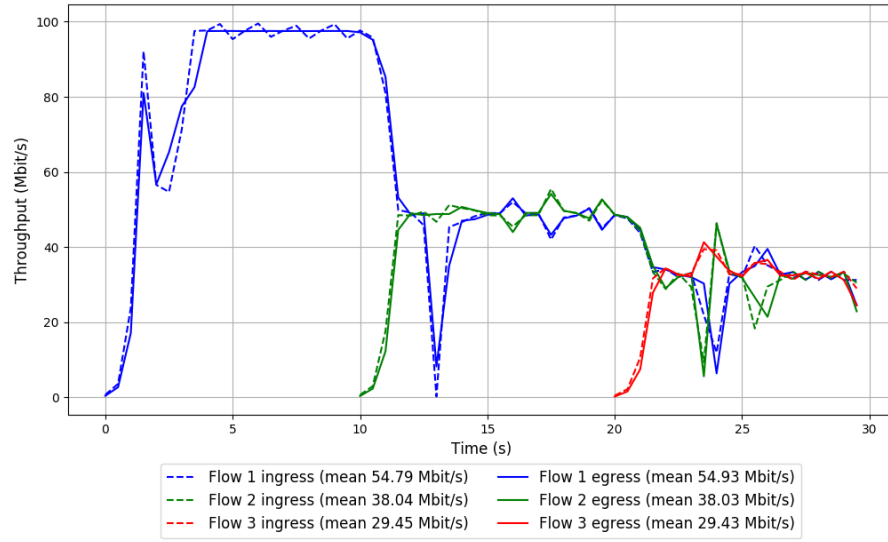
-- Flow 3:

Average throughput: 29.43 Mbit/s

95th percentile per-packet one-way delay: 118.285 ms

Loss rate: 2.29%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-03 19:13:06

End at: 2018-04-03 19:13:36

Local clock offset: -2.731 ms

Remote clock offset: 4.785 ms

Below is generated by plot.py at 2018-04-04 01:04:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 117.561 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 116.280 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 38.26 Mbit/s

95th percentile per-packet one-way delay: 118.714 ms

Loss rate: 0.91%

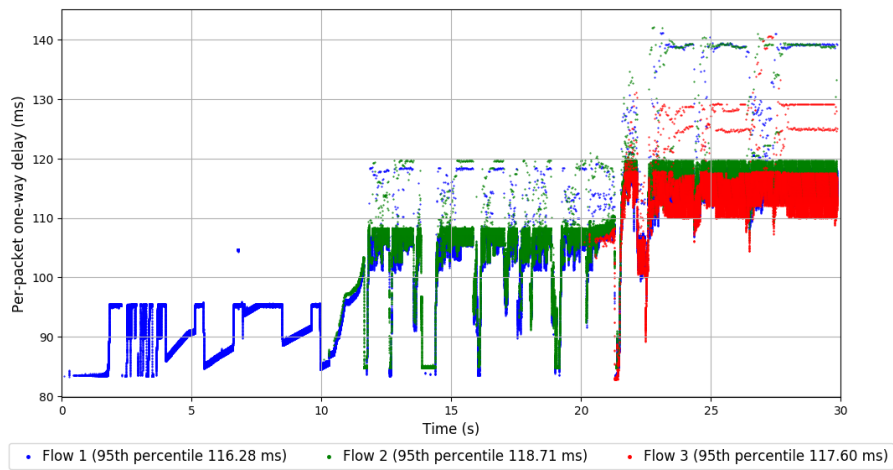
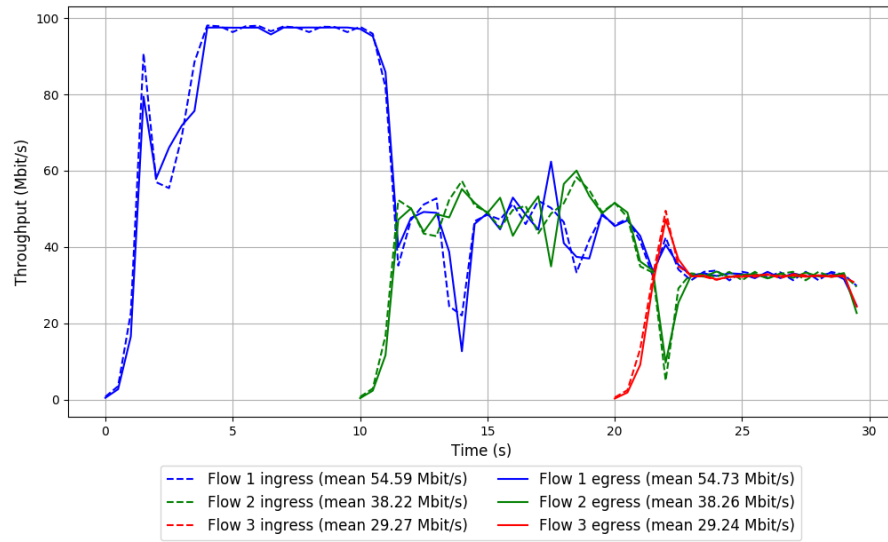
-- Flow 3:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 117.602 ms

Loss rate: 2.33%

Run 6: Report of TCP BBR — Data Link

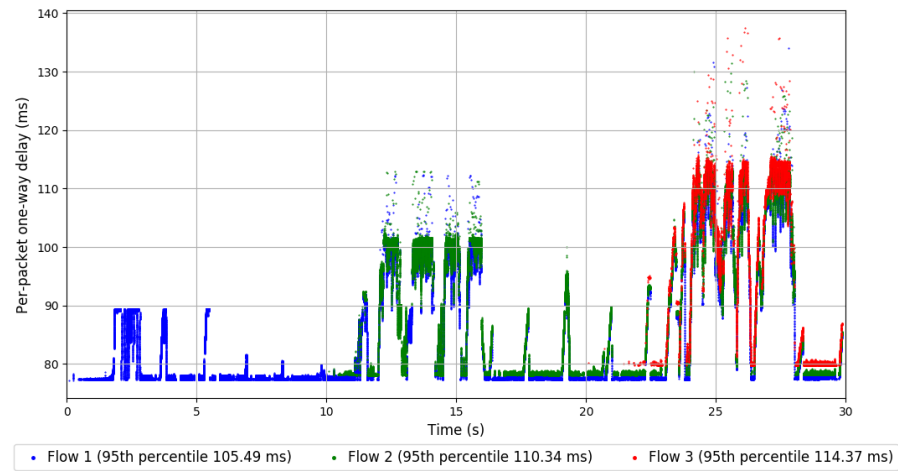
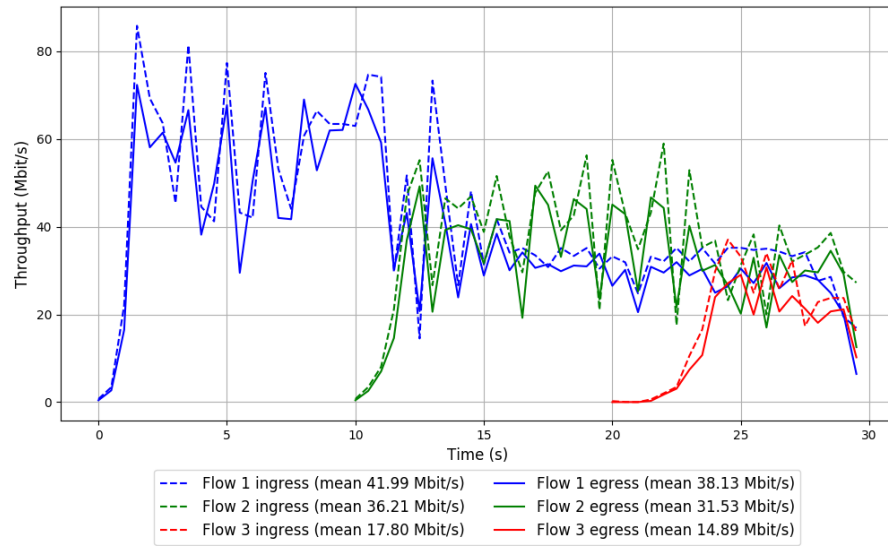


Run 7: Statistics of TCP BBR

Start at: 2018-04-03 19:36:50
End at: 2018-04-03 19:37:20
Local clock offset: -2.903 ms
Remote clock offset: 11.741 ms

Below is generated by plot.py at 2018-04-04 01:04:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 110.337 ms
Loss rate: 11.77%
-- Flow 1:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 105.491 ms
Loss rate: 9.77%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 110.344 ms
Loss rate: 13.74%
-- Flow 3:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 114.368 ms
Loss rate: 17.97%

Run 7: Report of TCP BBR — Data Link

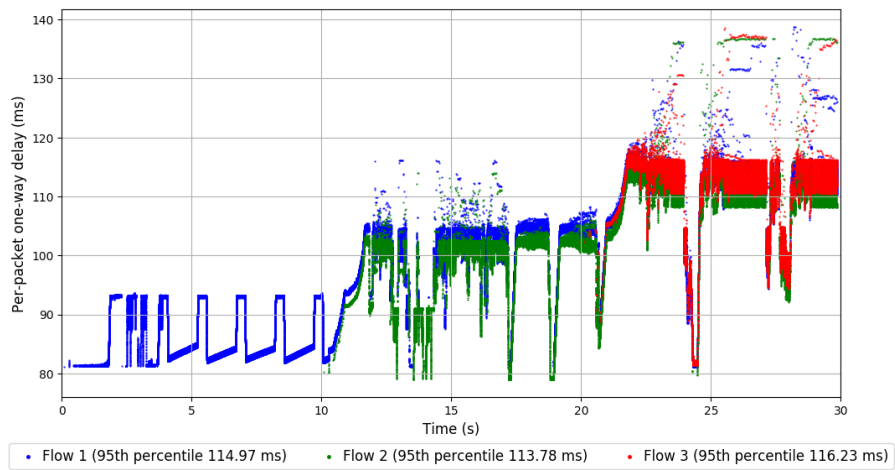
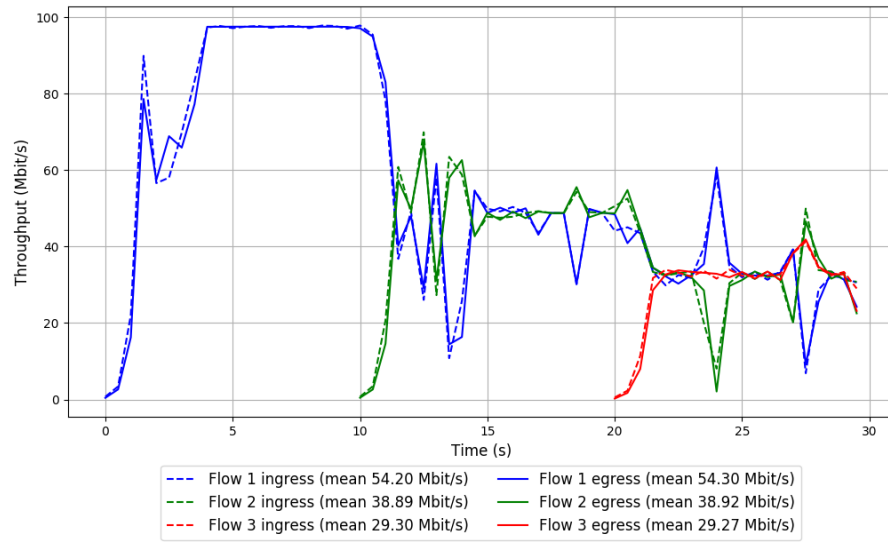


Run 8: Statistics of TCP BBR

Start at: 2018-04-03 20:00:47
End at: 2018-04-03 20:01:17
Local clock offset: -2.887 ms
Remote clock offset: 11.488 ms

Below is generated by plot.py at 2018-04-04 01:04:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 115.398 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 114.972 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 113.784 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 116.231 ms
Loss rate: 2.30%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-03 20:24:38

End at: 2018-04-03 20:25:08

Local clock offset: -4.544 ms

Remote clock offset: 5.205 ms

Below is generated by plot.py at 2018-04-04 01:05:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 119.940 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 119.735 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 37.14 Mbit/s

95th percentile per-packet one-way delay: 120.274 ms

Loss rate: 0.91%

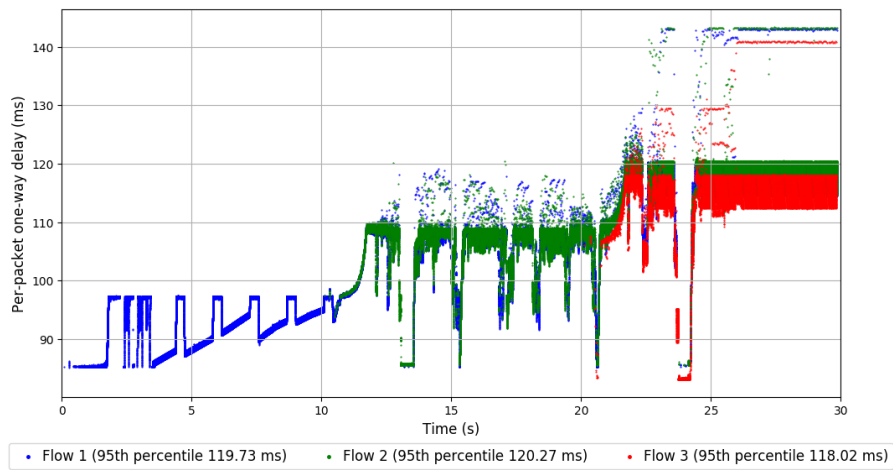
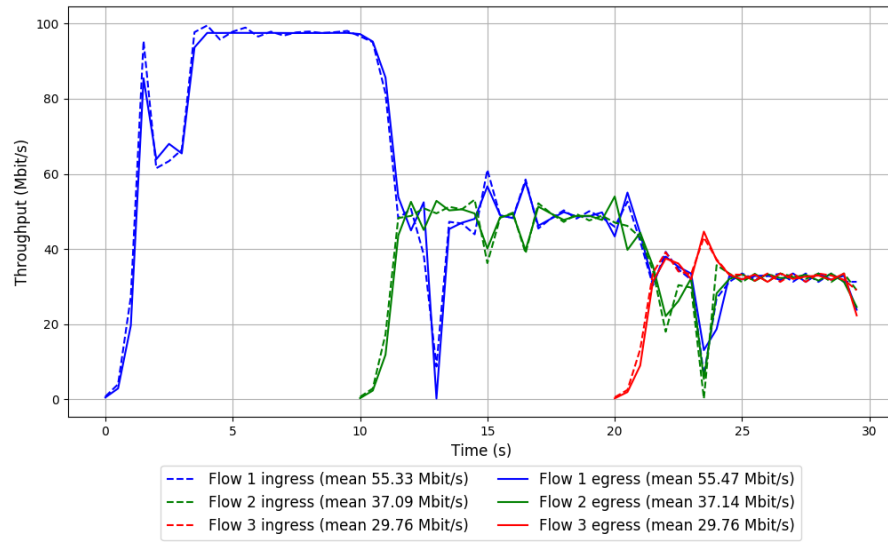
-- Flow 3:

Average throughput: 29.76 Mbit/s

95th percentile per-packet one-way delay: 118.023 ms

Loss rate: 2.27%

Run 9: Report of TCP BBR — Data Link

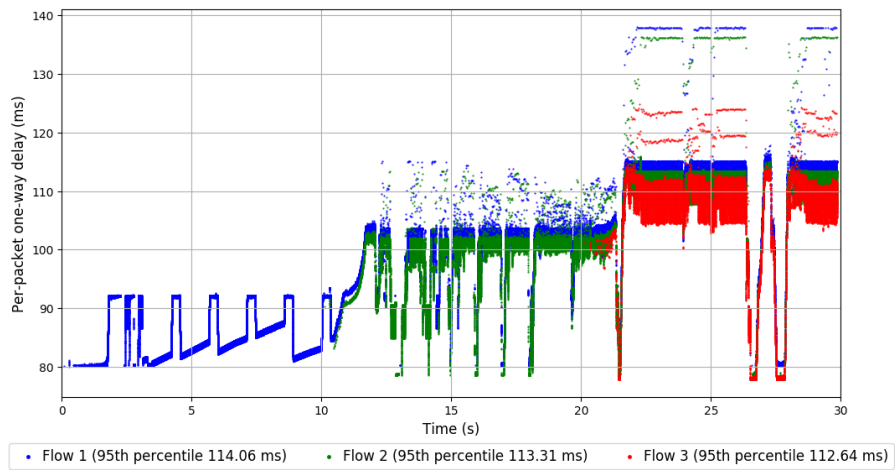
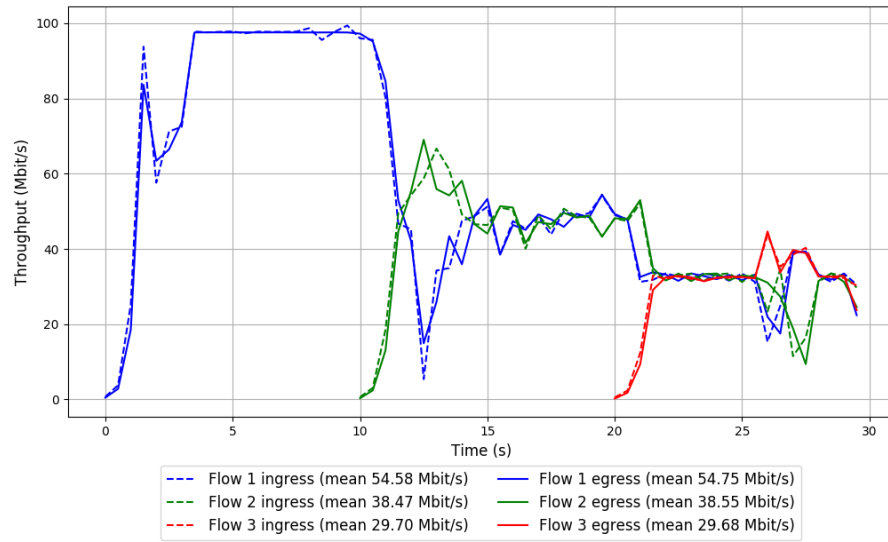


Run 10: Statistics of TCP BBR

Start at: 2018-04-03 20:48:41
End at: 2018-04-03 20:49:11
Local clock offset: -6.446 ms
Remote clock offset: 11.297 ms

Below is generated by plot.py at 2018-04-04 01:06:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 113.386 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 54.75 Mbit/s
95th percentile per-packet one-way delay: 114.062 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 113.315 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 112.643 ms
Loss rate: 2.28%

Run 10: Report of TCP BBR — Data Link

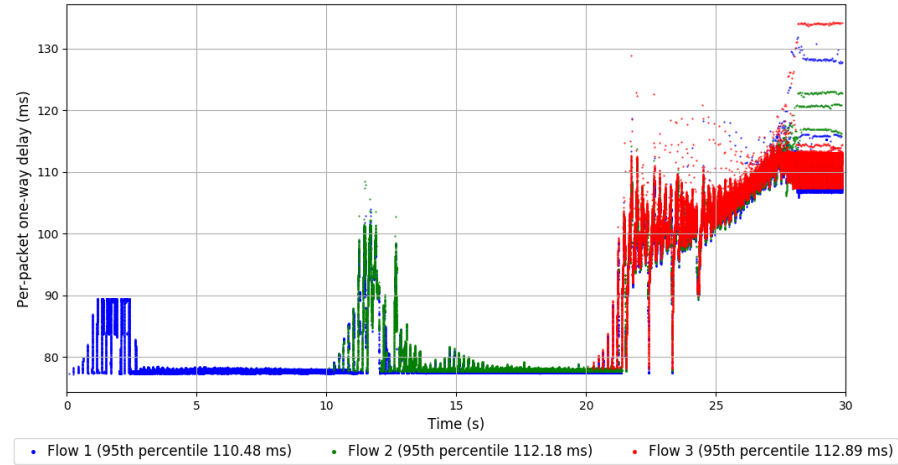
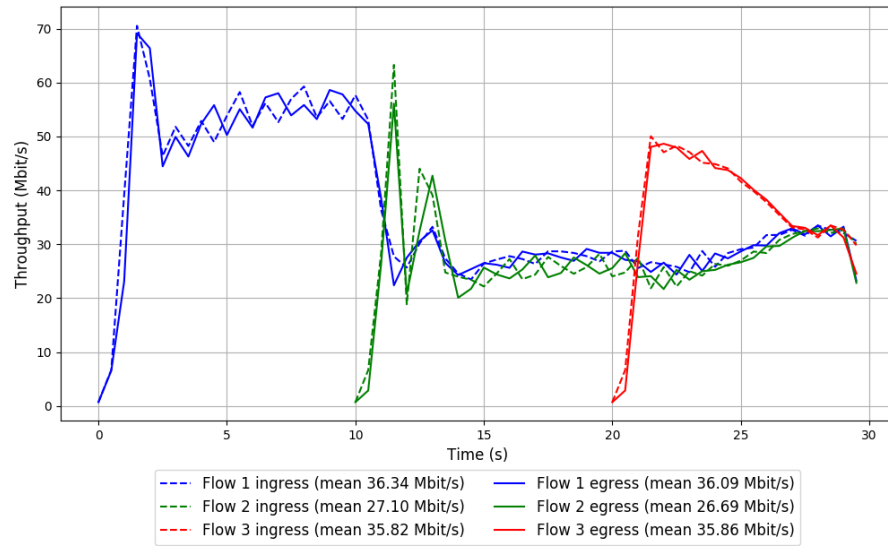


Run 1: Statistics of TCP Cubic

Start at: 2018-04-03 17:03:08
End at: 2018-04-03 17:03:38
Local clock offset: -7.064 ms
Remote clock offset: 12.496 ms

Below is generated by plot.py at 2018-04-04 01:06:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.55 Mbit/s
95th percentile per-packet one-way delay: 111.969 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 36.09 Mbit/s
95th percentile per-packet one-way delay: 110.476 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 112.179 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 35.86 Mbit/s
95th percentile per-packet one-way delay: 112.892 ms
Loss rate: 1.88%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-03 17:27:05

End at: 2018-04-03 17:27:35

Local clock offset: -3.423 ms

Remote clock offset: 11.47 ms

Below is generated by plot.py at 2018-04-04 01:06:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 113.336 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 113.295 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 113.608 ms

Loss rate: 1.44%

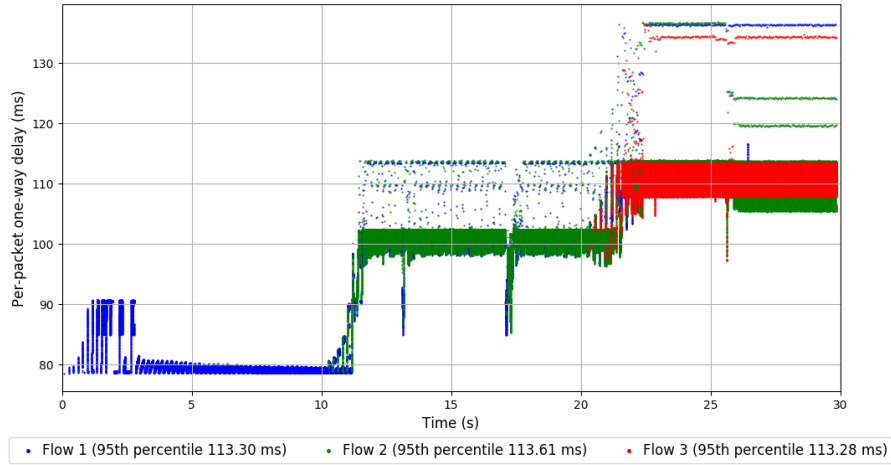
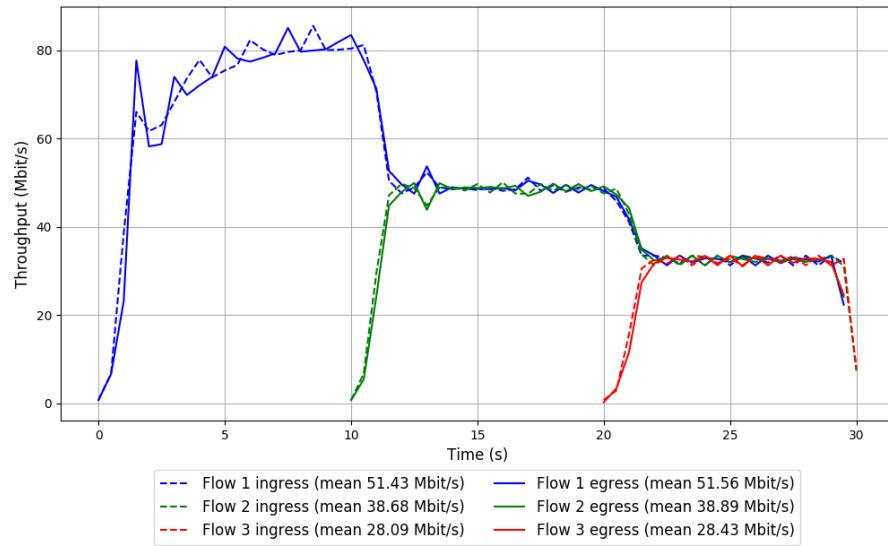
-- Flow 3:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 113.283 ms

Loss rate: 3.93%

Run 2: Report of TCP Cubic — Data Link

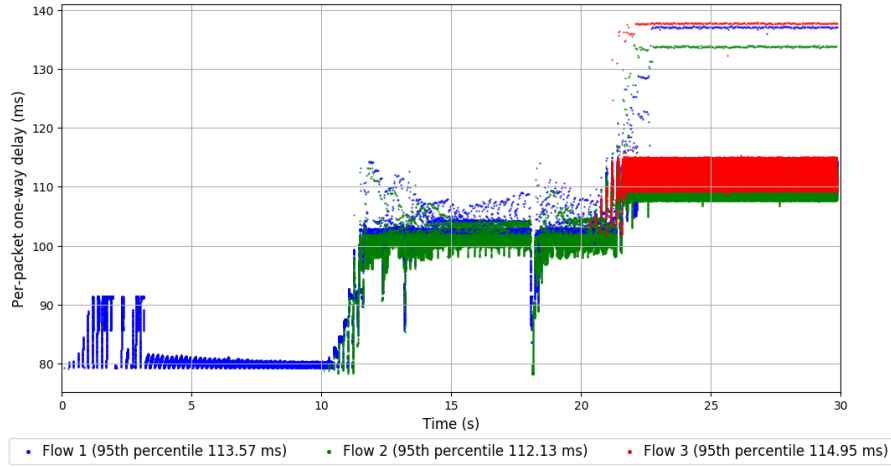
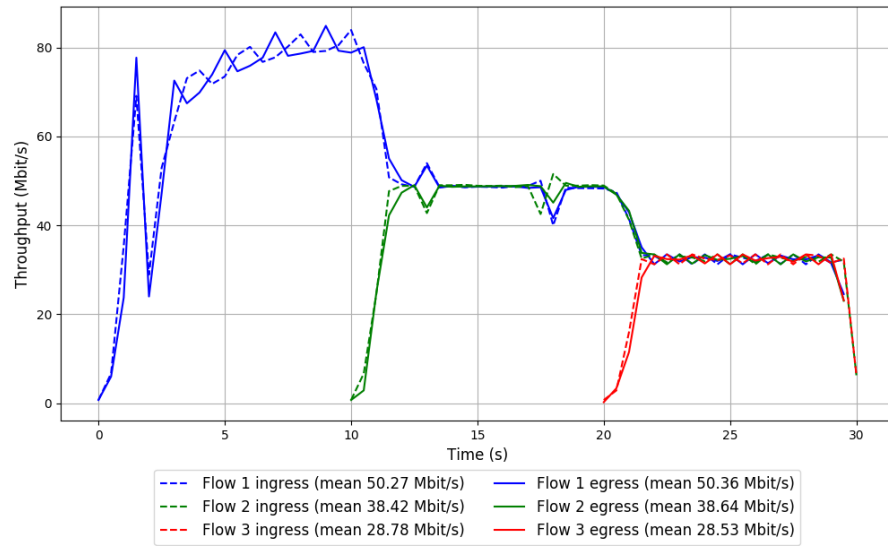


Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 17:50:54
End at: 2018-04-03 17:51:24
Local clock offset: -3.595 ms
Remote clock offset: 11.46 ms

Below is generated by plot.py at 2018-04-04 01:06:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.30 Mbit/s
95th percentile per-packet one-way delay: 114.265 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 113.572 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 112.127 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 28.53 Mbit/s
95th percentile per-packet one-way delay: 114.948 ms
Loss rate: 3.88%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-03 18:14:42

End at: 2018-04-03 18:15:12

Local clock offset: -6.556 ms

Remote clock offset: 5.557 ms

Below is generated by plot.py at 2018-04-04 01:06:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 119.095 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 119.548 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 118.704 ms

Loss rate: 1.45%

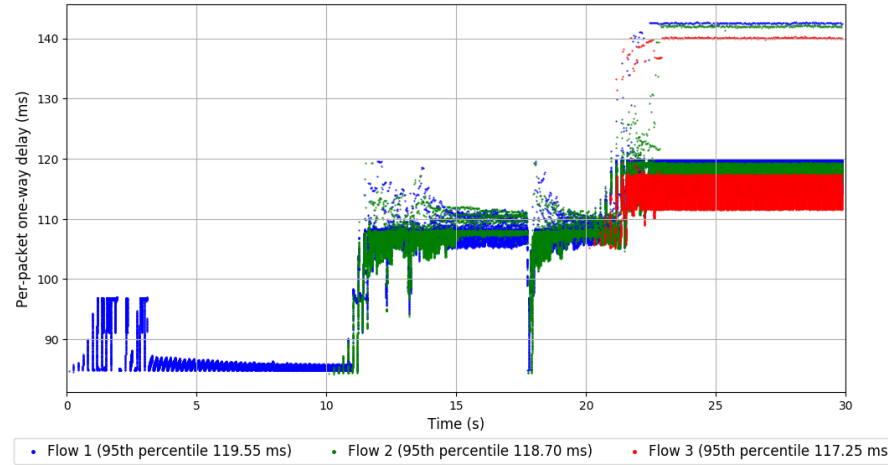
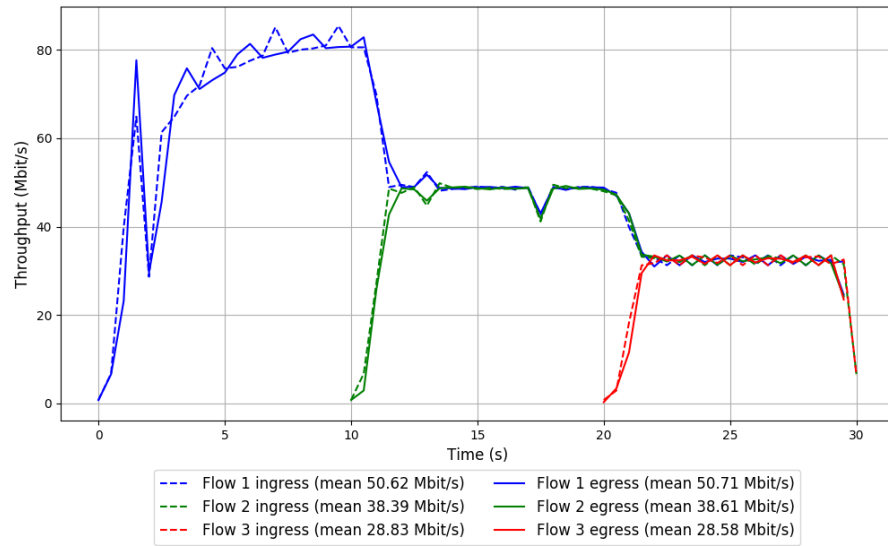
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 117.251 ms

Loss rate: 3.83%

Run 4: Report of TCP Cubic — Data Link

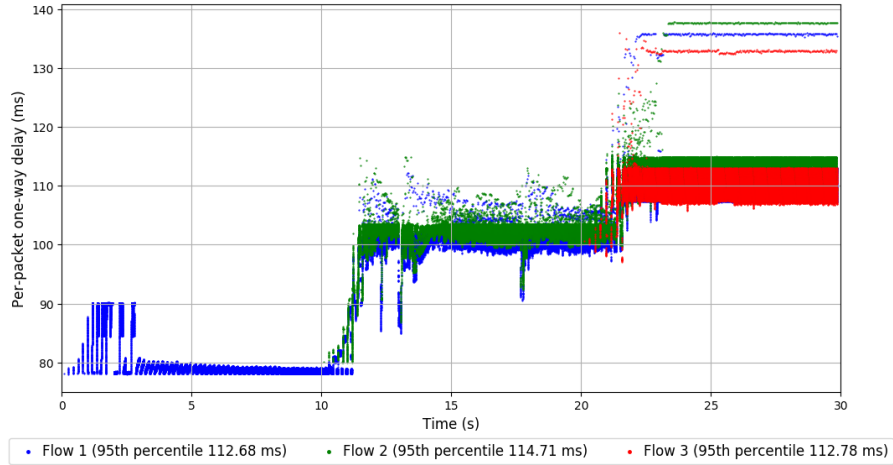
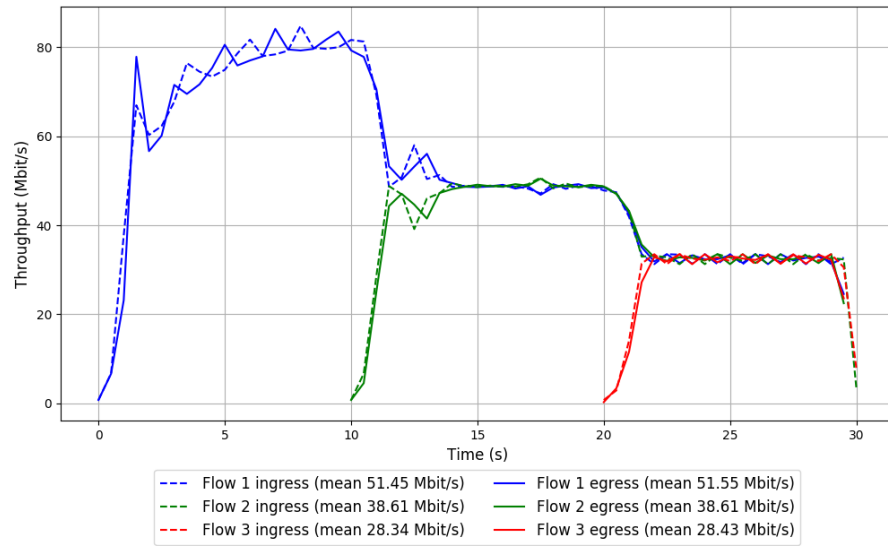


Run 5: Statistics of TCP Cubic

Start at: 2018-04-03 18:38:30
End at: 2018-04-03 18:39:00
Local clock offset: -2.706 ms
Remote clock offset: 9.853 ms

```
# Below is generated by plot.py at 2018-04-04 01:06:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.48 Mbit/s
95th percentile per-packet one-way delay: 113.137 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 112.683 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 114.707 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 28.43 Mbit/s
95th percentile per-packet one-way delay: 112.778 ms
Loss rate: 3.92%
```

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-03 19:02:16

End at: 2018-04-03 19:02:46

Local clock offset: -2.389 ms

Remote clock offset: 9.256 ms

Below is generated by plot.py at 2018-04-04 01:06:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 115.432 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 113.103 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 36.53 Mbit/s

95th percentile per-packet one-way delay: 116.149 ms

Loss rate: 1.39%

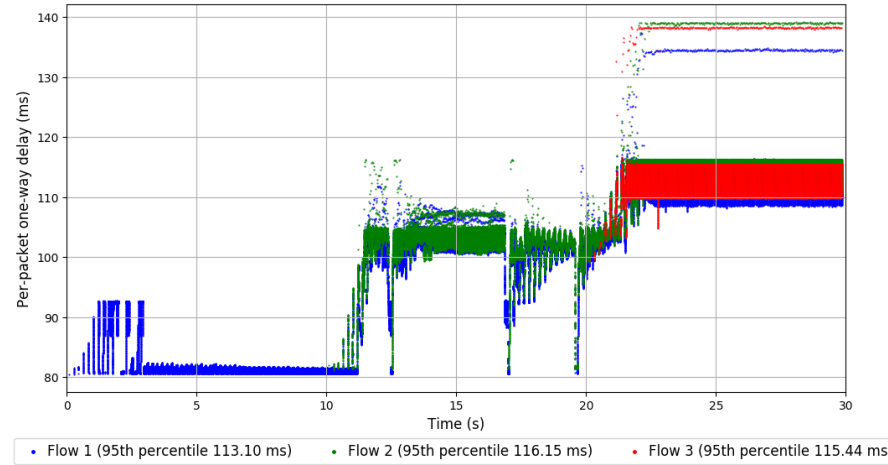
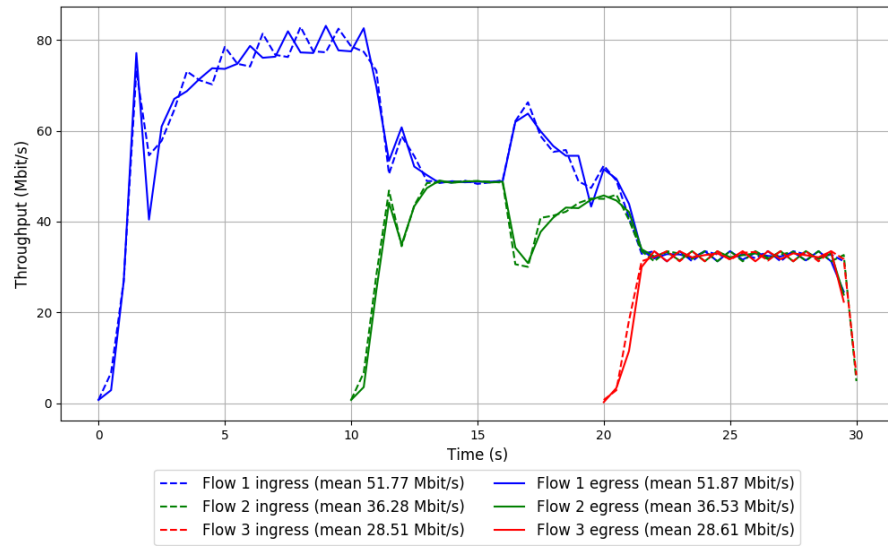
-- Flow 3:

Average throughput: 28.61 Mbit/s

95th percentile per-packet one-way delay: 115.436 ms

Loss rate: 3.86%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-03 19:27:41

End at: 2018-04-03 19:28:11

Local clock offset: -2.627 ms

Remote clock offset: 4.115 ms

Below is generated by plot.py at 2018-04-04 01:07:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 119.723 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 46.06 Mbit/s

95th percentile per-packet one-way delay: 119.828 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 39.04 Mbit/s

95th percentile per-packet one-way delay: 118.979 ms

Loss rate: 0.95%

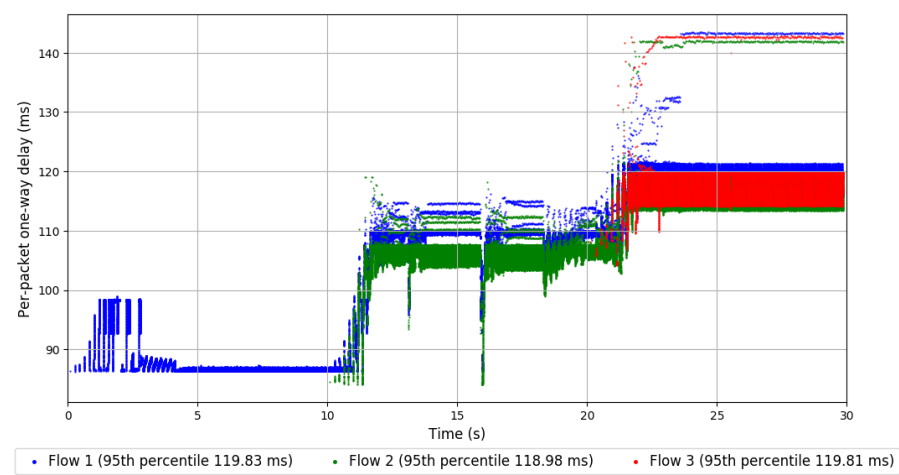
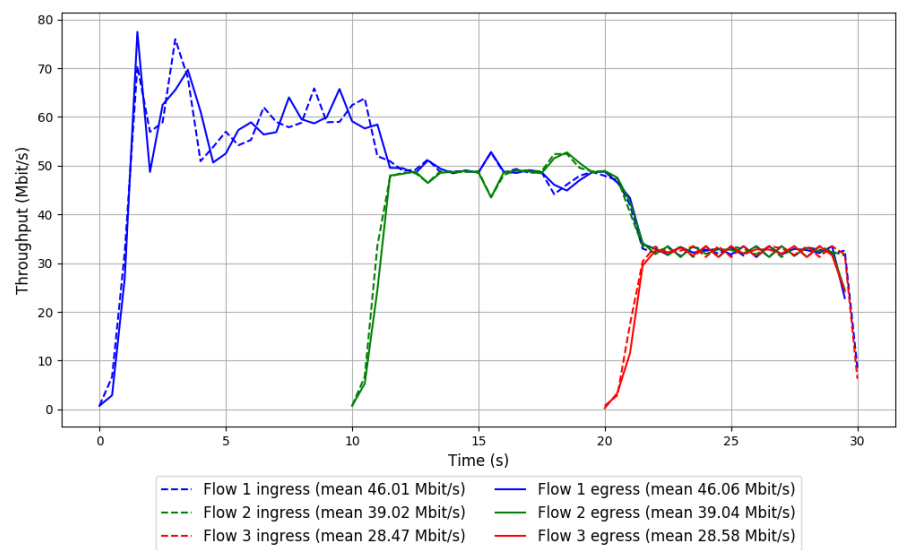
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 119.815 ms

Loss rate: 3.88%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-03 19:51:39

End at: 2018-04-03 19:52:09

Local clock offset: -2.955 ms

Remote clock offset: 6.986 ms

Below is generated by plot.py at 2018-04-04 01:07:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 97.622 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 37.55 Mbit/s

95th percentile per-packet one-way delay: 97.480 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 20.35 Mbit/s

95th percentile per-packet one-way delay: 102.028 ms

Loss rate: 1.86%

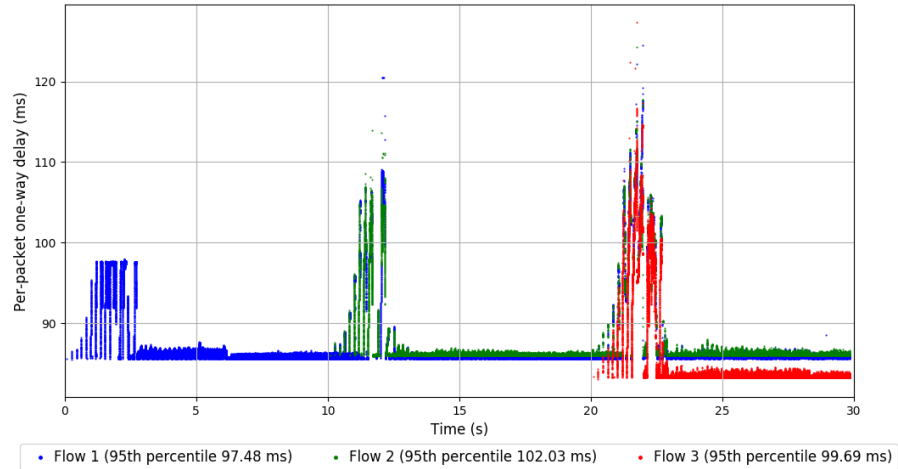
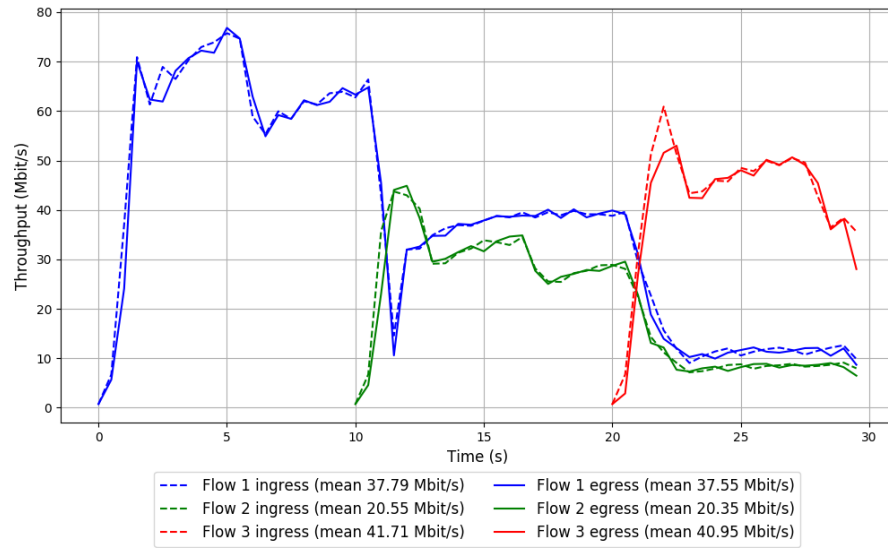
-- Flow 3:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 99.687 ms

Loss rate: 3.58%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-03 20:15:26

End at: 2018-04-03 20:15:56

Local clock offset: -4.229 ms

Remote clock offset: 5.498 ms

Below is generated by plot.py at 2018-04-04 01:07:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.82 Mbit/s

95th percentile per-packet one-way delay: 120.320 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 118.007 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 38.80 Mbit/s

95th percentile per-packet one-way delay: 121.049 ms

Loss rate: 1.30%

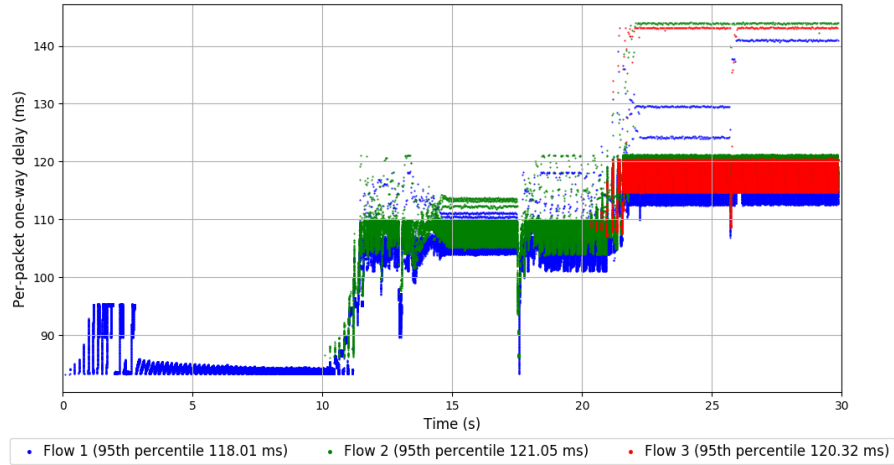
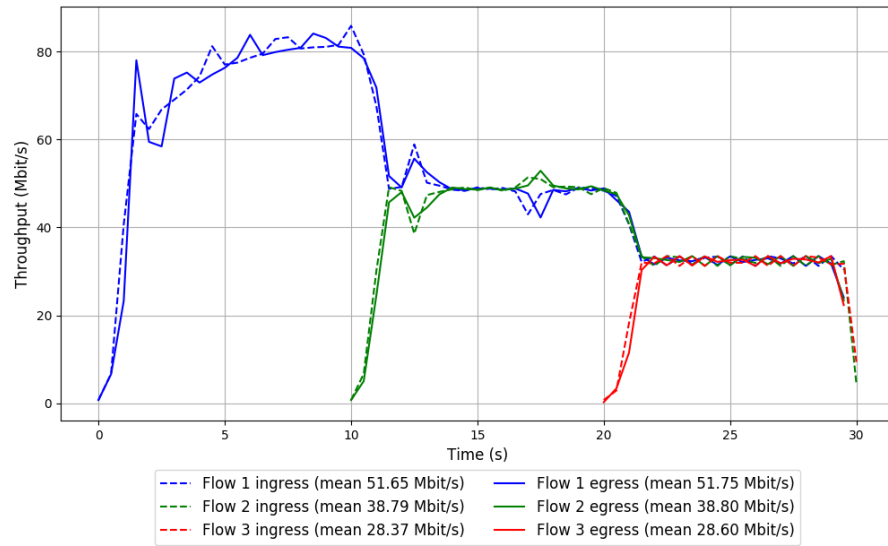
-- Flow 3:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 120.320 ms

Loss rate: 4.39%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-03 20:39:29

End at: 2018-04-03 20:39:59

Local clock offset: -5.19 ms

Remote clock offset: 5.234 ms

Below is generated by plot.py at 2018-04-04 01:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 119.327 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 119.893 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 117.590 ms

Loss rate: 1.46%

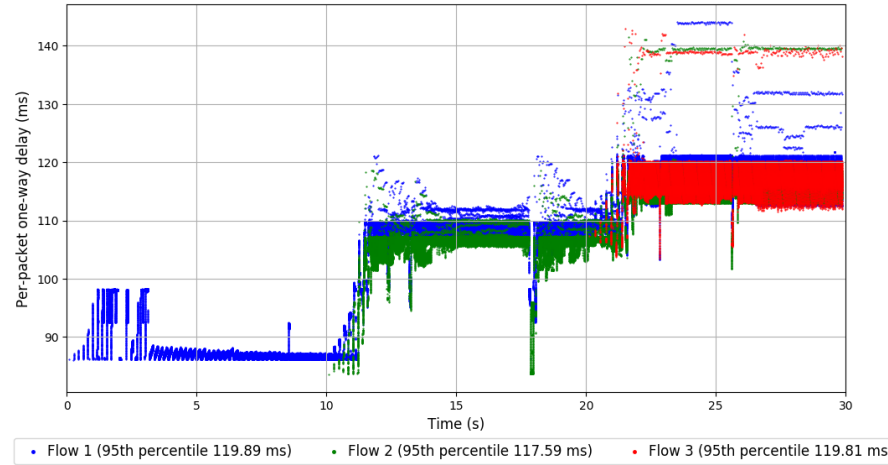
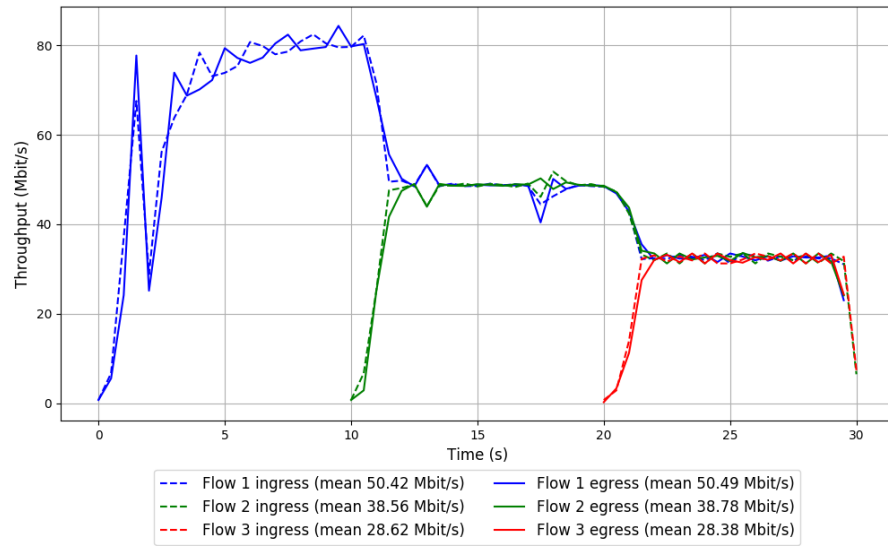
-- Flow 3:

Average throughput: 28.38 Mbit/s

95th percentile per-packet one-way delay: 119.815 ms

Loss rate: 3.92%

Run 10: Report of TCP Cubic — Data Link

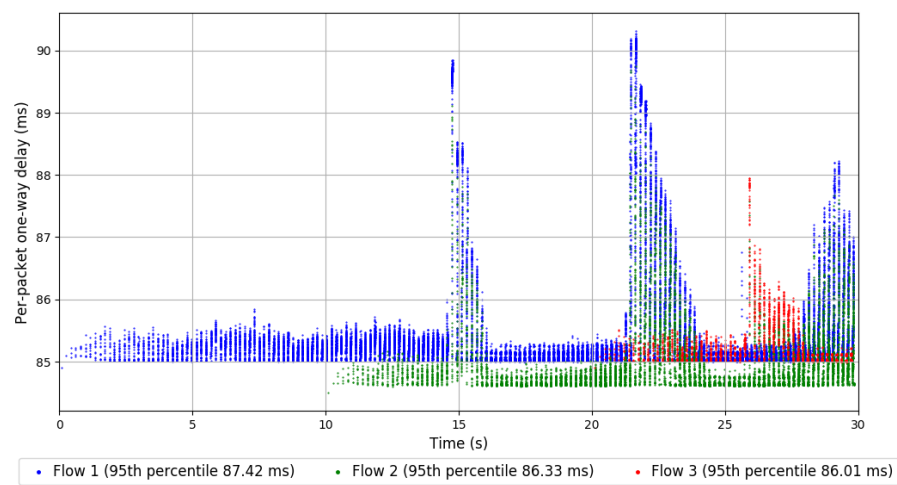
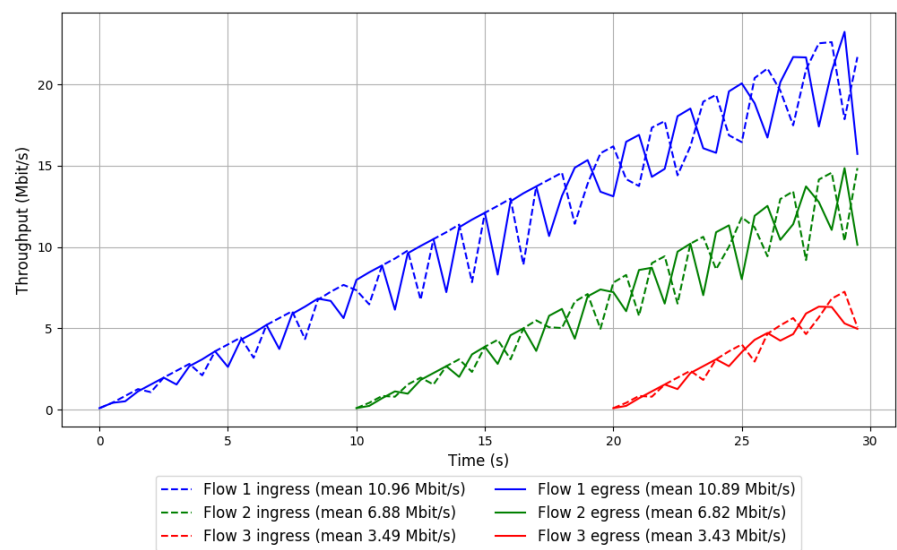


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-03 17:09:47
End at: 2018-04-03 17:10:17
Local clock offset: -7.461 ms
Remote clock offset: 7.346 ms

# Below is generated by plot.py at 2018-04-04 01:07:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 86.970 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 87.417 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 86.331 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 86.012 ms
Loss rate: 3.73%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-03 17:33:46

End at: 2018-04-03 17:34:16

Local clock offset: -2.791 ms

Remote clock offset: 7.776 ms

Below is generated by plot.py at 2018-04-04 01:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 85.599 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 85.568 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 85.040 ms

Loss rate: 1.81%

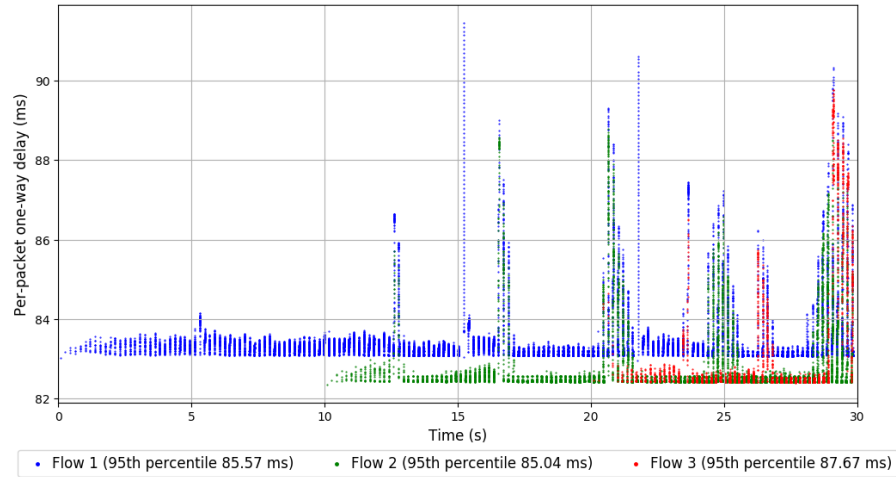
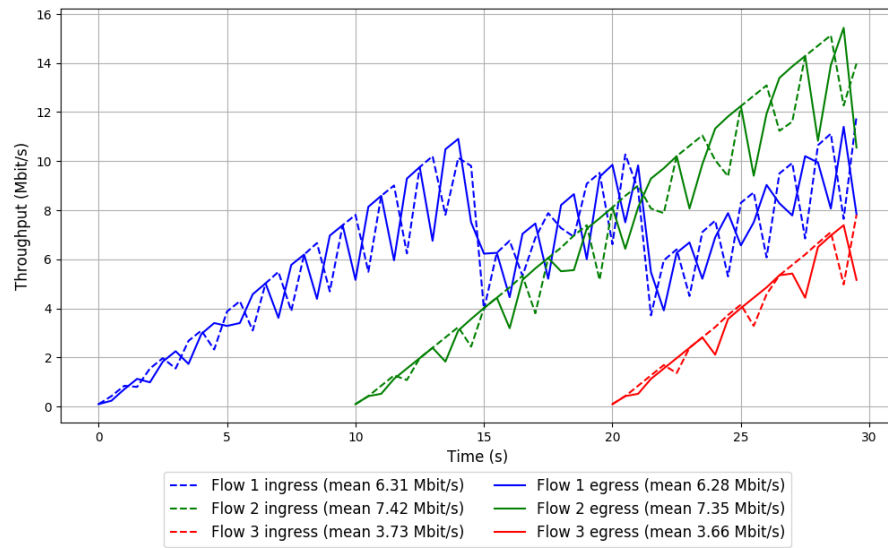
-- Flow 3:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 87.672 ms

Loss rate: 3.60%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-03 17:57:36

End at: 2018-04-03 17:58:06

Local clock offset: -5.054 ms

Remote clock offset: 6.027 ms

Below is generated by plot.py at 2018-04-04 01:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 87.127 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 11.02 Mbit/s

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

Loss rate: 1.20%

-- Flow 2:

Average throughput: 6.97 Mbit/s

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

Loss rate: 1.86%

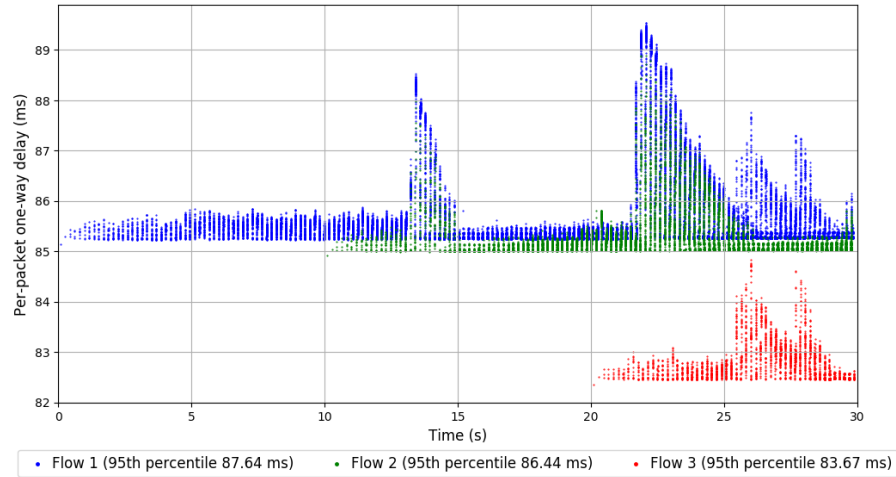
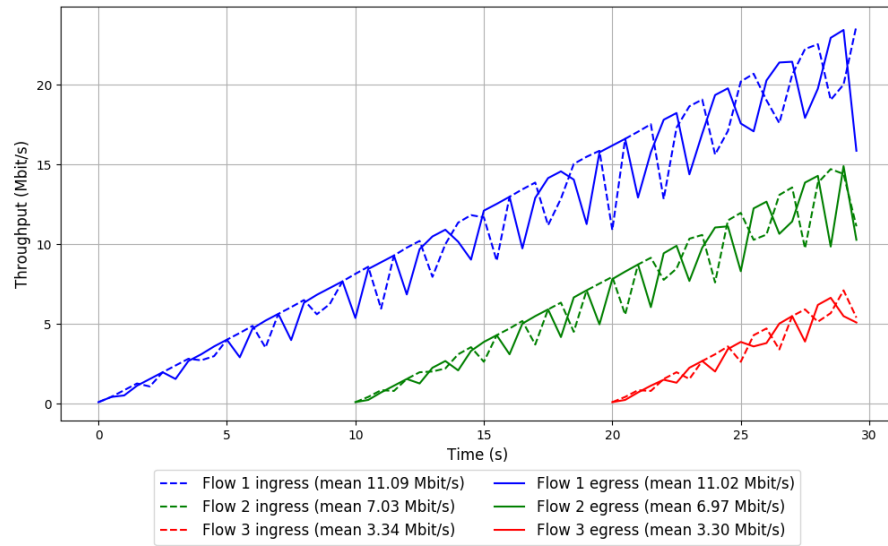
-- Flow 3:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 83.675 ms

Loss rate: 2.90%

Run 3: Report of LEDBAT — Data Link

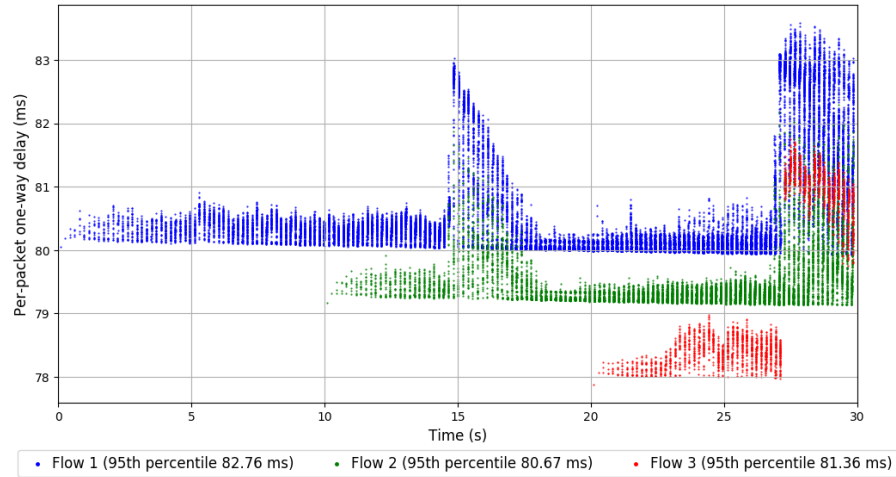
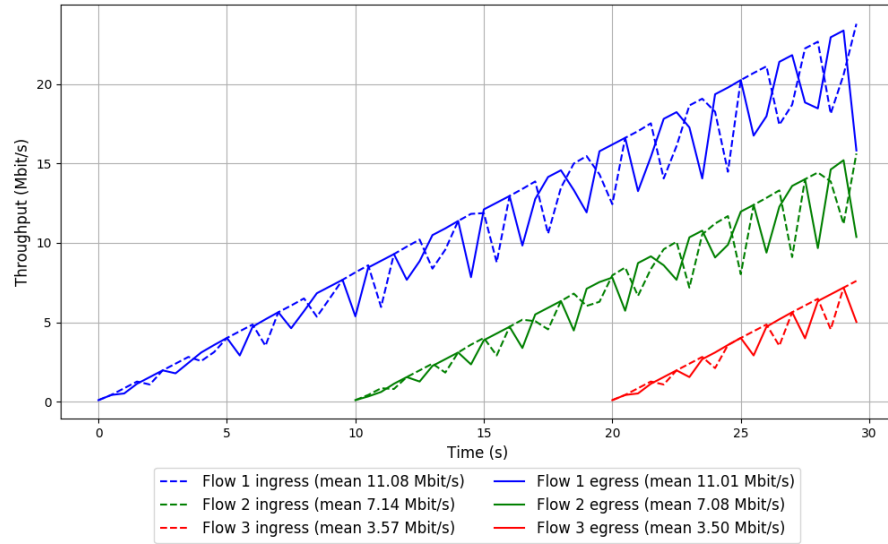


Run 4: Statistics of LEDBAT

Start at: 2018-04-03 18:21:22
End at: 2018-04-03 18:21:52
Local clock offset: -6.708 ms
Remote clock offset: 10.206 ms

Below is generated by plot.py at 2018-04-04 01:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.85 Mbit/s
95th percentile per-packet one-way delay: 82.557 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 11.01 Mbit/s
95th percentile per-packet one-way delay: 82.760 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 80.668 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 81.363 ms
Loss rate: 3.64%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-03 18:45:09

End at: 2018-04-03 18:45:39

Local clock offset: -2.146 ms

Remote clock offset: 9.738 ms

Below is generated by plot.py at 2018-04-04 01:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.40 Mbit/s

95th percentile per-packet one-way delay: 82.080 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 10.89 Mbit/s

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

Loss rate: 1.21%

-- Flow 2:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 82.068 ms

Loss rate: 1.91%

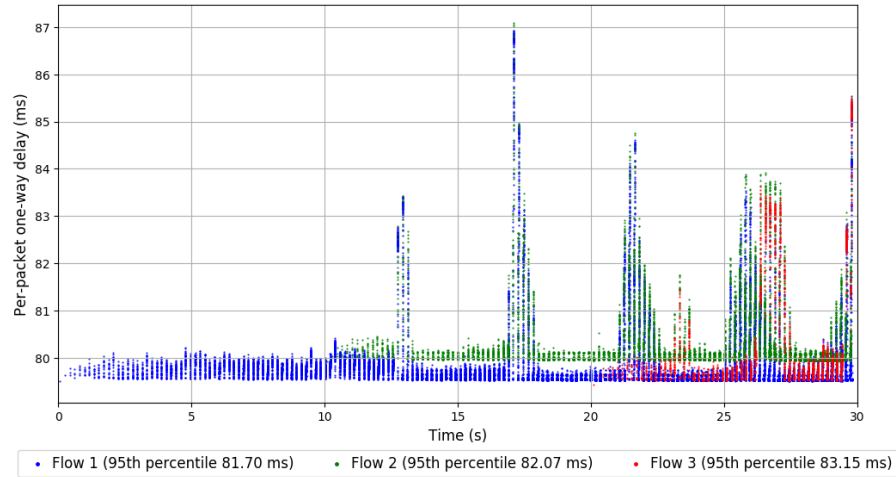
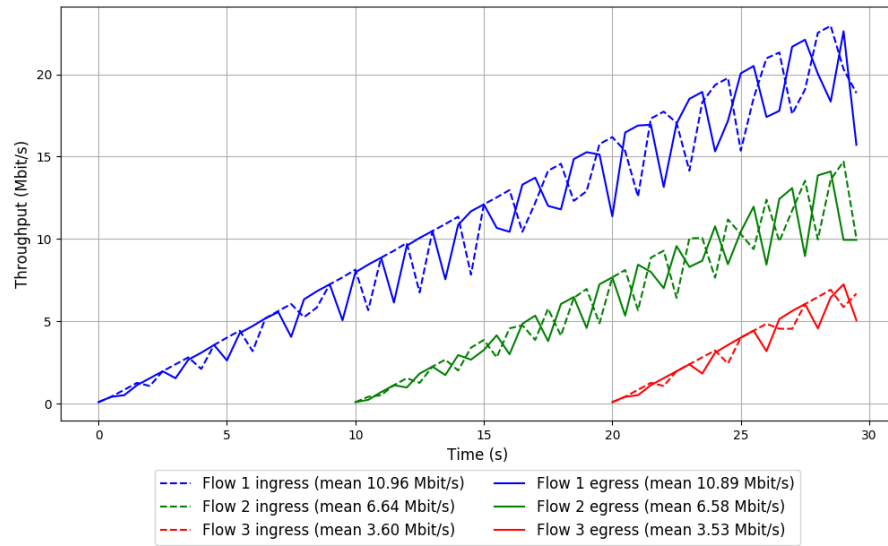
-- Flow 3:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 83.147 ms

Loss rate: 3.67%

Run 5: Report of LEDBAT — Data Link

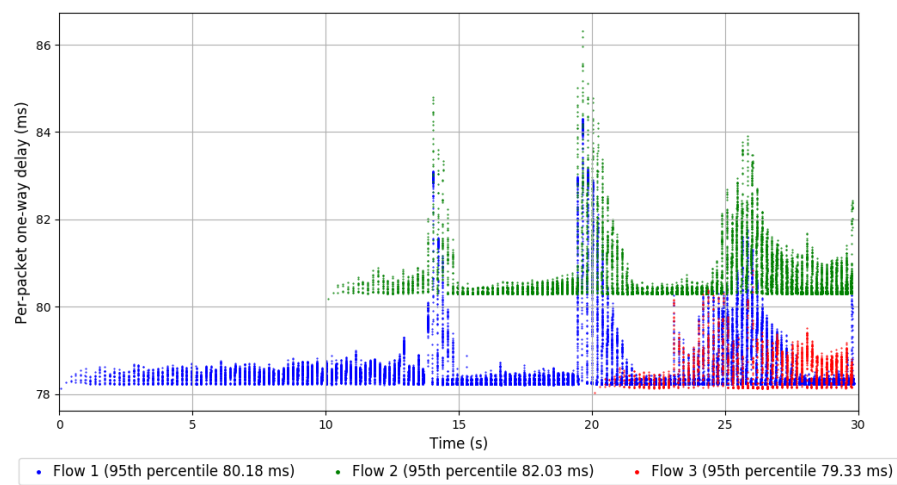
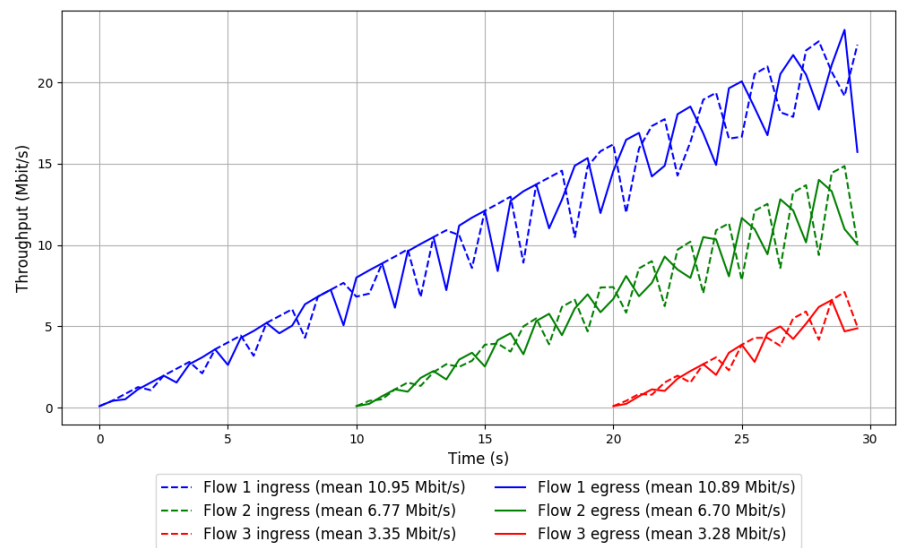


Run 6: Statistics of LEDBAT

Start at: 2018-04-03 19:10:35
End at: 2018-04-03 19:11:05
Local clock offset: -2.739 ms
Remote clock offset: 10.289 ms

Below is generated by plot.py at 2018-04-04 01:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.38 Mbit/s
95th percentile per-packet one-way delay: 81.310 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 80.176 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 82.034 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 79.331 ms
Loss rate: 3.81%

Run 6: Report of LEDBAT — Data Link

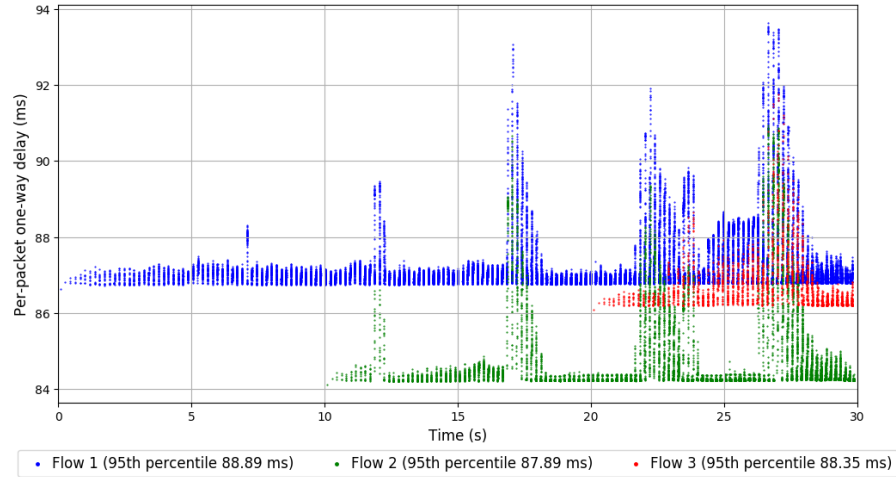
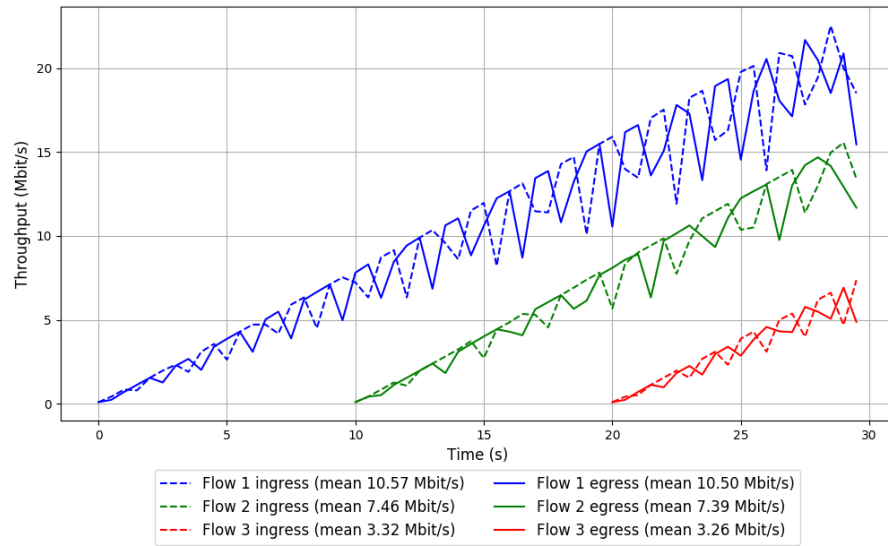


Run 7: Statistics of LEDBAT

Start at: 2018-04-03 19:34:19
End at: 2018-04-03 19:34:49
Local clock offset: -2.819 ms
Remote clock offset: 5.116 ms

Below is generated by plot.py at 2018-04-04 01:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 88.650 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 88.895 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 87.893 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 88.352 ms
Loss rate: 3.81%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-03 19:58:16

End at: 2018-04-03 19:58:46

Local clock offset: -2.91 ms

Remote clock offset: 6.794 ms

Below is generated by plot.py at 2018-04-04 01:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 89.216 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 88.589 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 90.142 ms

Loss rate: 1.81%

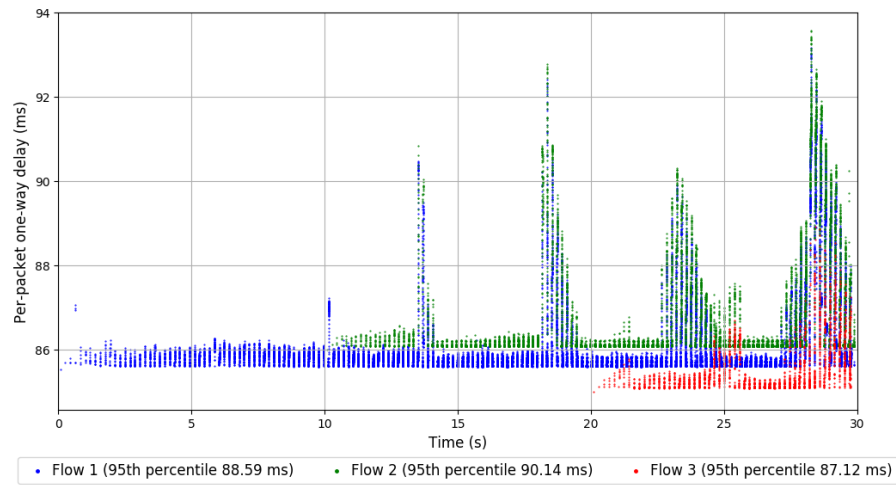
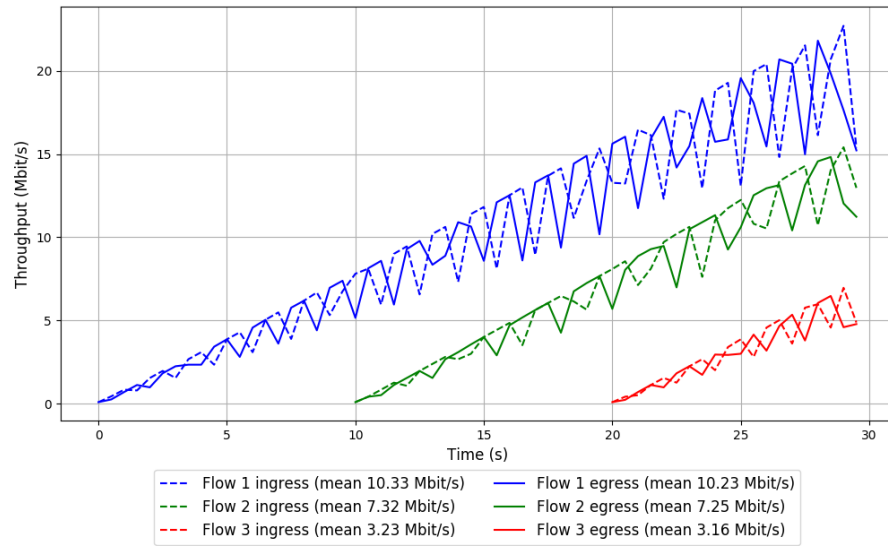
-- Flow 3:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 87.124 ms

Loss rate: 3.89%

Run 8: Report of LEDBAT — Data Link

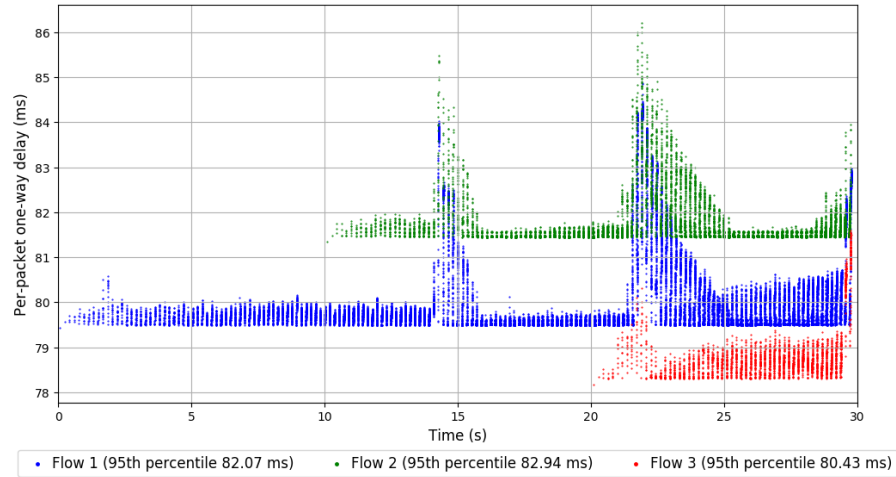
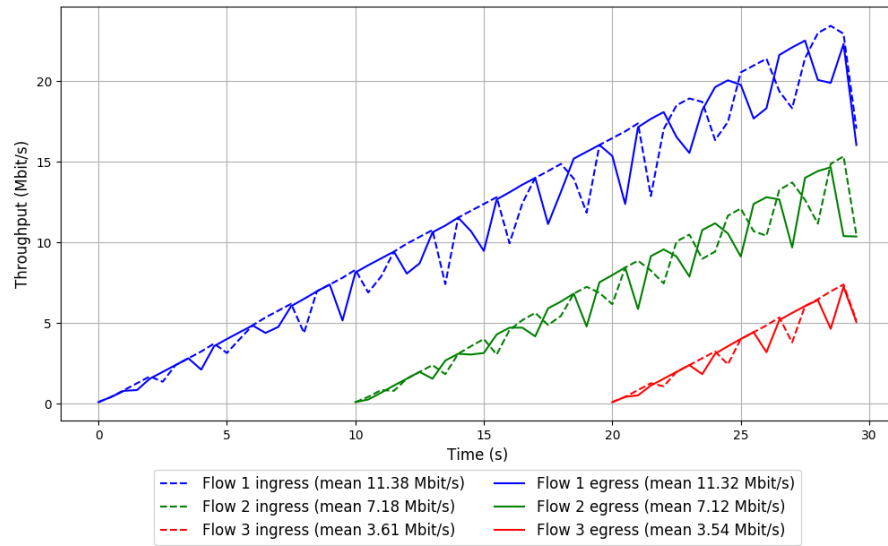


Run 9: Statistics of LEDBAT

Start at: 2018-04-03 20:22:07
End at: 2018-04-03 20:22:37
Local clock offset: -4.464 ms
Remote clock offset: 10.125 ms

Below is generated by plot.py at 2018-04-04 01:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.18 Mbit/s
95th percentile per-packet one-way delay: 82.409 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 82.072 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 82.940 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 80.431 ms
Loss rate: 3.66%

Run 9: Report of LEDBAT — Data Link

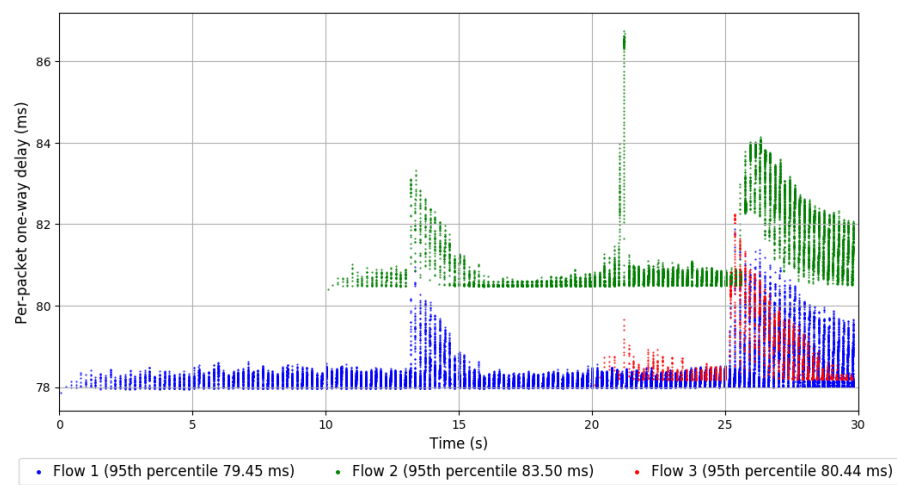
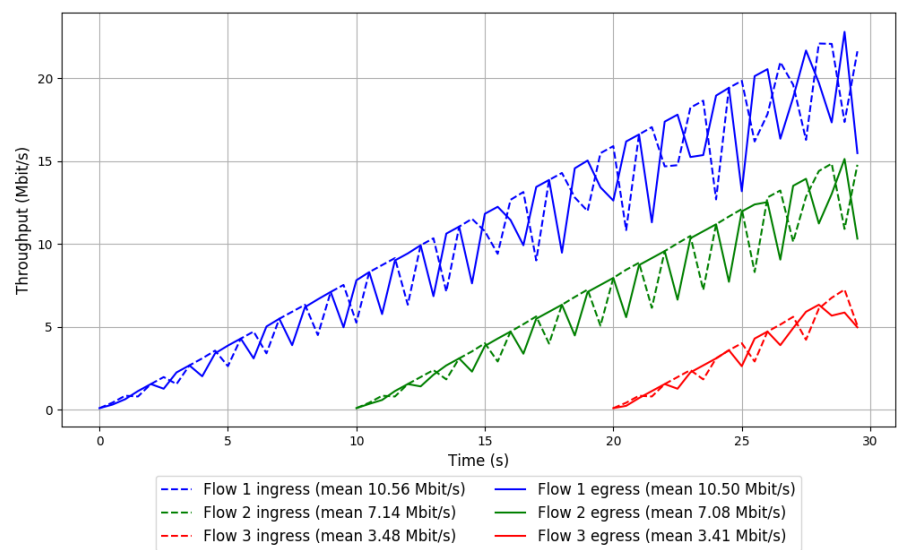


Run 10: Statistics of LEDBAT

Start at: 2018-04-03 20:46:10
End at: 2018-04-03 20:46:40
Local clock offset: -6.255 ms
Remote clock offset: 11.211 ms

Below is generated by plot.py at 2018-04-04 01:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.30 Mbit/s
95th percentile per-packet one-way delay: 82.267 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 79.450 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 83.505 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 80.441 ms
Loss rate: 3.74%

Run 10: Report of LEDBAT — Data Link

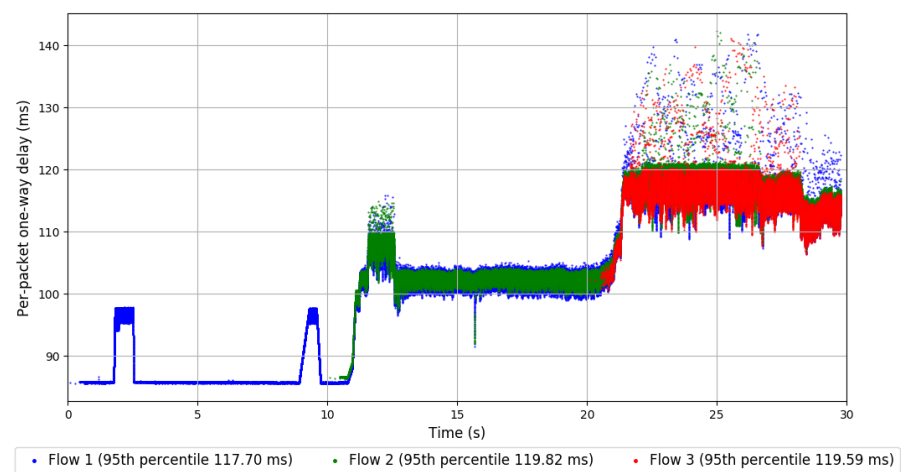
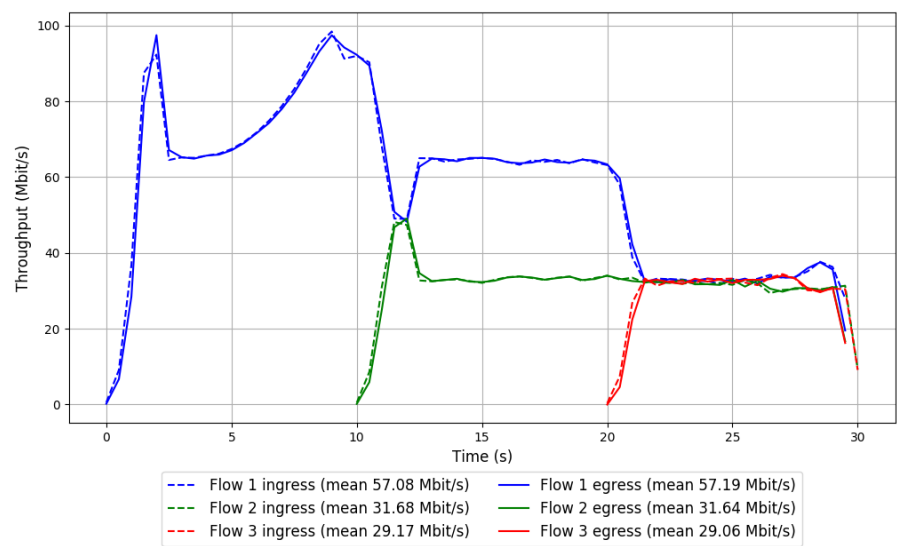


```
Run 1: Statistics of PCC

Start at: 2018-04-03 17:16:29
End at: 2018-04-03 17:16:59
Local clock offset: -5.948 ms
Remote clock offset: 6.114 ms

# Below is generated by plot.py at 2018-04-04 01:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.62 Mbit/s
95th percentile per-packet one-way delay: 118.926 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 117.700 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 119.822 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 119.587 ms
Loss rate: 5.11%
```

Run 1: Report of PCC — Data Link

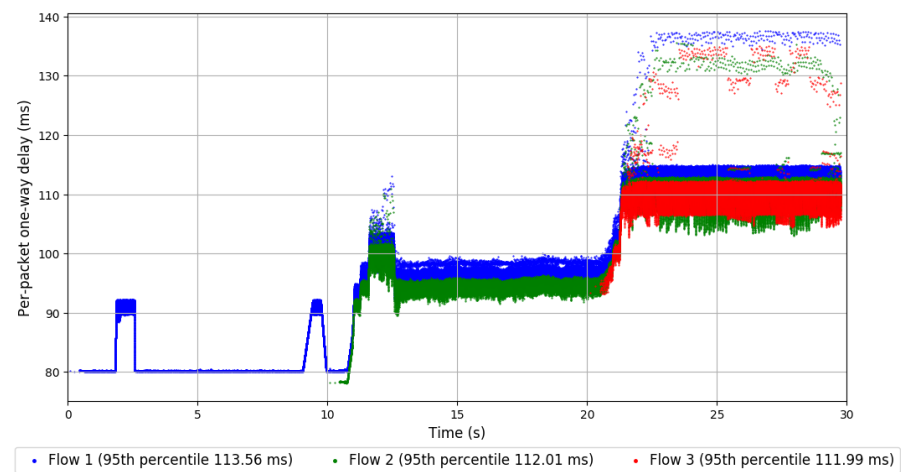
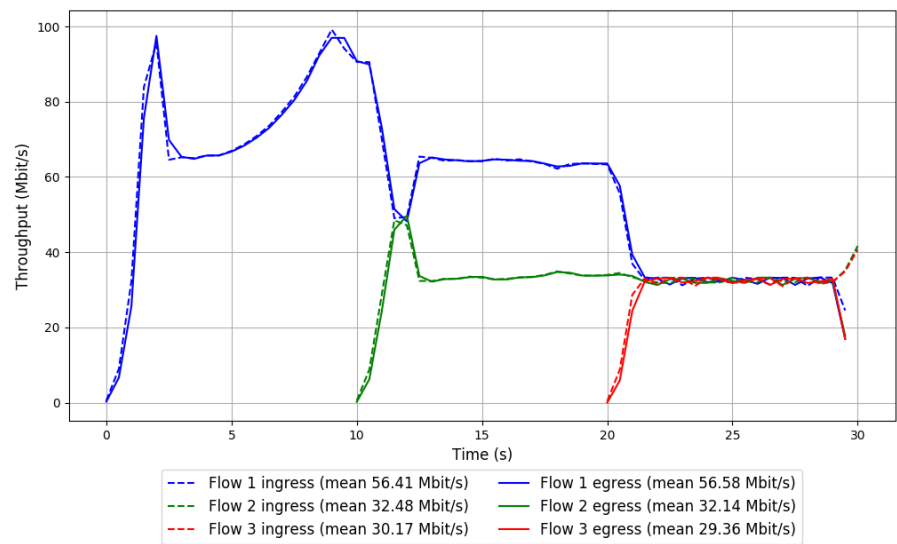


Run 2: Statistics of PCC

Start at: 2018-04-03 17:40:20
End at: 2018-04-03 17:40:50
Local clock offset: -2.476 ms
Remote clock offset: 12.648 ms

Below is generated by plot.py at 2018-04-04 01:08:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 113.037 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 113.555 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 32.14 Mbit/s
95th percentile per-packet one-way delay: 112.011 ms
Loss rate: 4.94%
-- Flow 3:
Average throughput: 29.36 Mbit/s
95th percentile per-packet one-way delay: 111.987 ms
Loss rate: 10.31%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-03 18:04:09

End at: 2018-04-03 18:04:39

Local clock offset: -5.873 ms

Remote clock offset: 9.65 ms

Below is generated by plot.py at 2018-04-04 01:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 114.361 ms

Loss rate: 2.89%

-- Flow 1:

Average throughput: 56.37 Mbit/s

95th percentile per-packet one-way delay: 113.852 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 114.328 ms

Loss rate: 5.36%

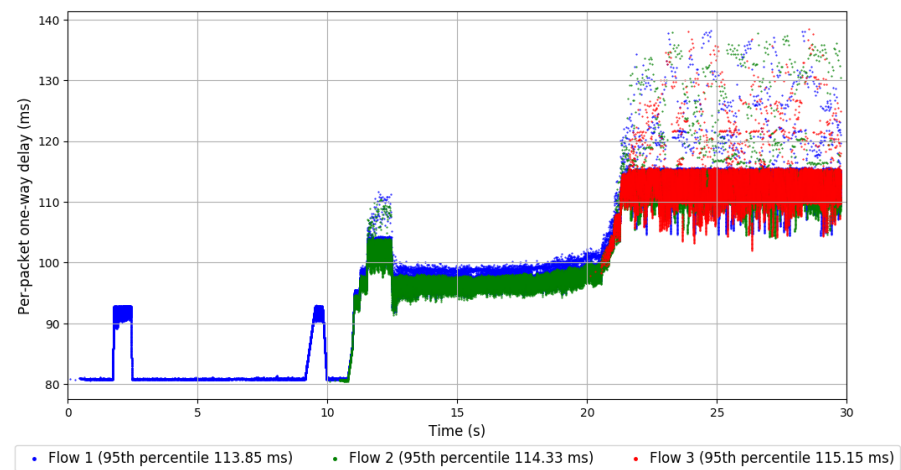
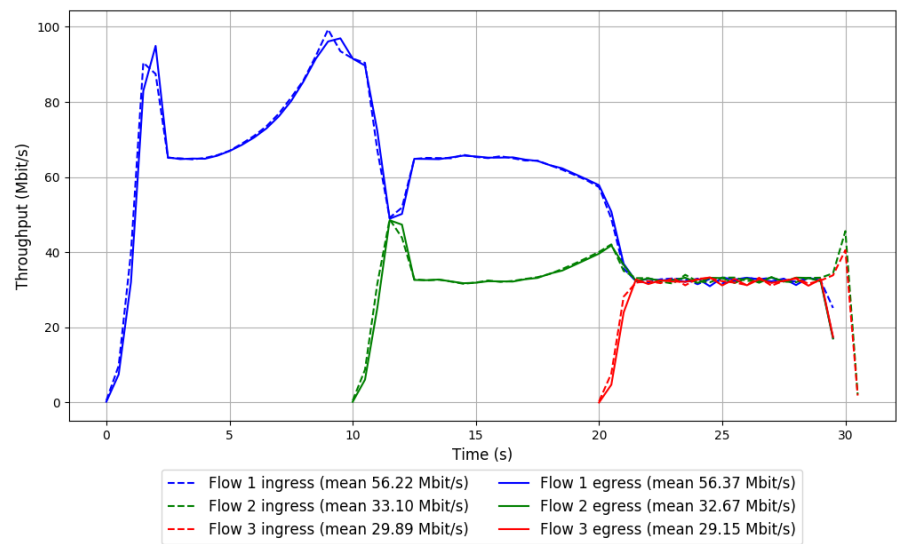
-- Flow 3:

Average throughput: 29.15 Mbit/s

95th percentile per-packet one-way delay: 115.146 ms

Loss rate: 10.49%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-03 18:27:56

End at: 2018-04-03 18:28:26

Local clock offset: -4.464 ms

Remote clock offset: 4.305 ms

Below is generated by plot.py at 2018-04-04 01:08:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 117.668 ms

Loss rate: 3.46%

-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 116.020 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 119.385 ms

Loss rate: 6.46%

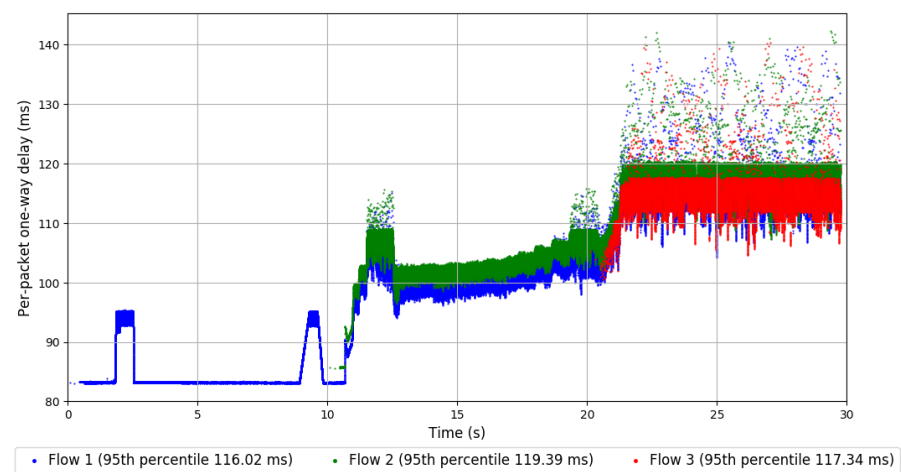
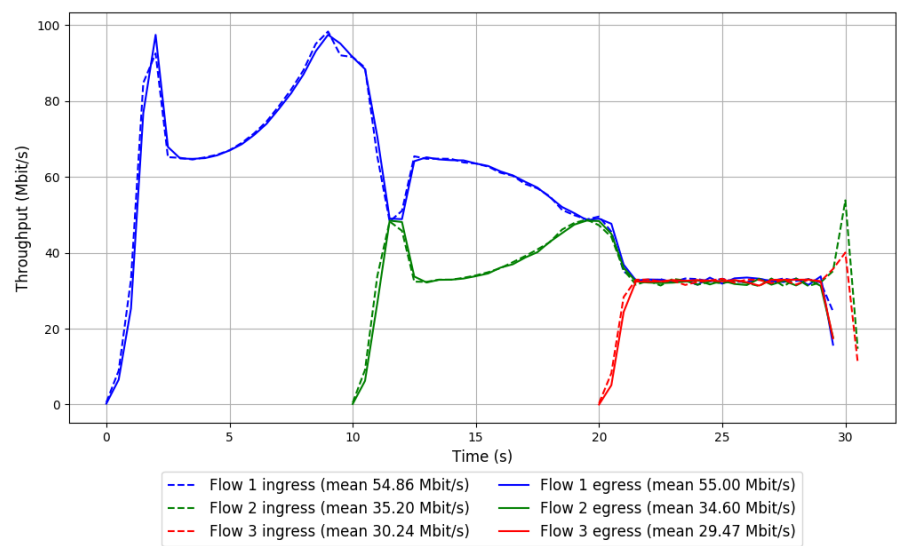
-- Flow 3:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 117.345 ms

Loss rate: 11.83%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-03 18:51:43

End at: 2018-04-03 18:52:13

Local clock offset: -1.694 ms

Remote clock offset: 4.84 ms

Below is generated by plot.py at 2018-04-04 01:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.61 Mbit/s

95th percentile per-packet one-way delay: 117.653 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 117.083 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 118.411 ms

Loss rate: 4.76%

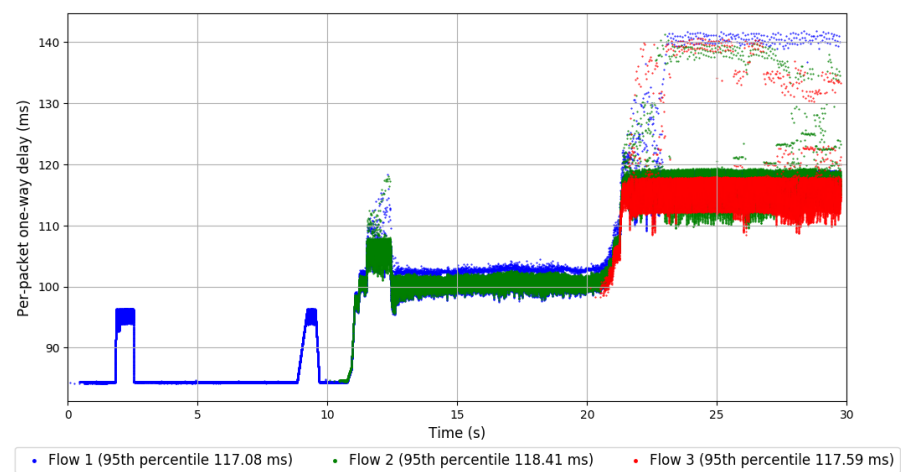
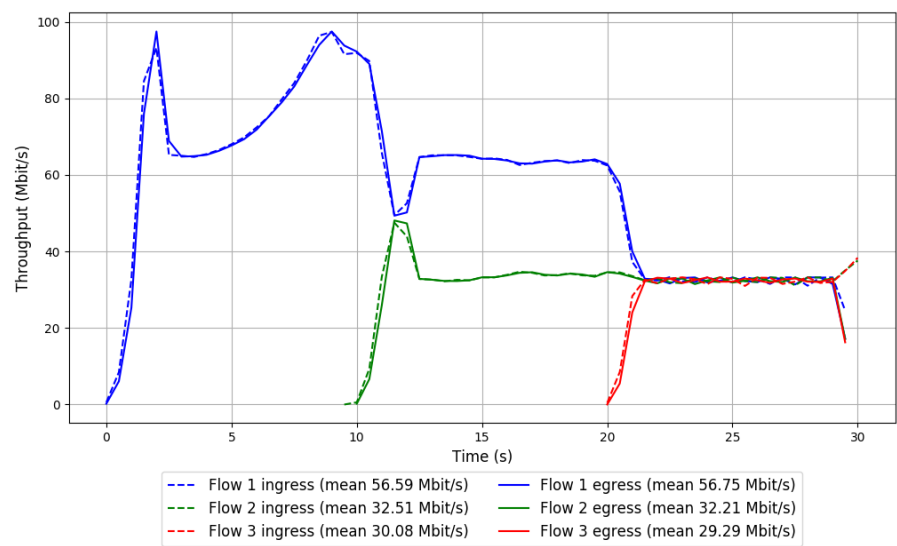
-- Flow 3:

Average throughput: 29.29 Mbit/s

95th percentile per-packet one-way delay: 117.595 ms

Loss rate: 10.11%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-03 19:17:07

End at: 2018-04-03 19:17:37

Local clock offset: -2.753 ms

Remote clock offset: 10.32 ms

Below is generated by plot.py at 2018-04-04 01:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 79.567 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 70.95 Mbit/s

95th percentile per-packet one-way delay: 79.566 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 77.449 ms

Loss rate: 2.45%

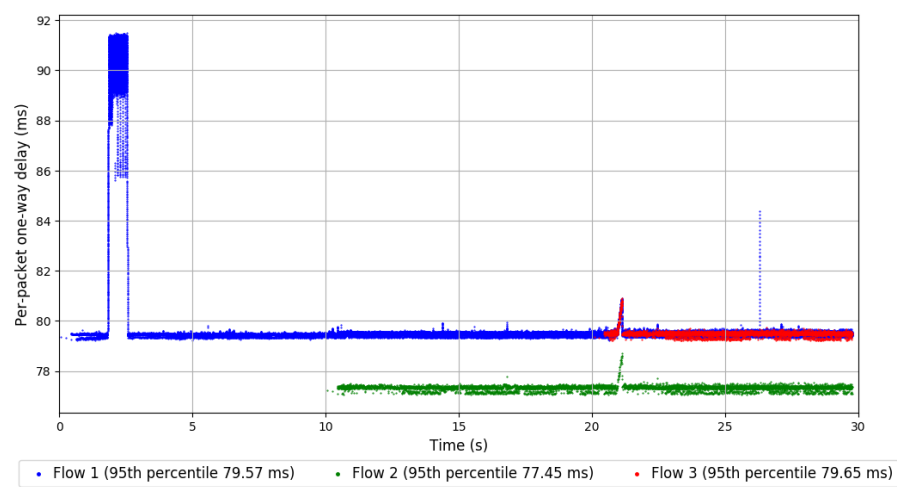
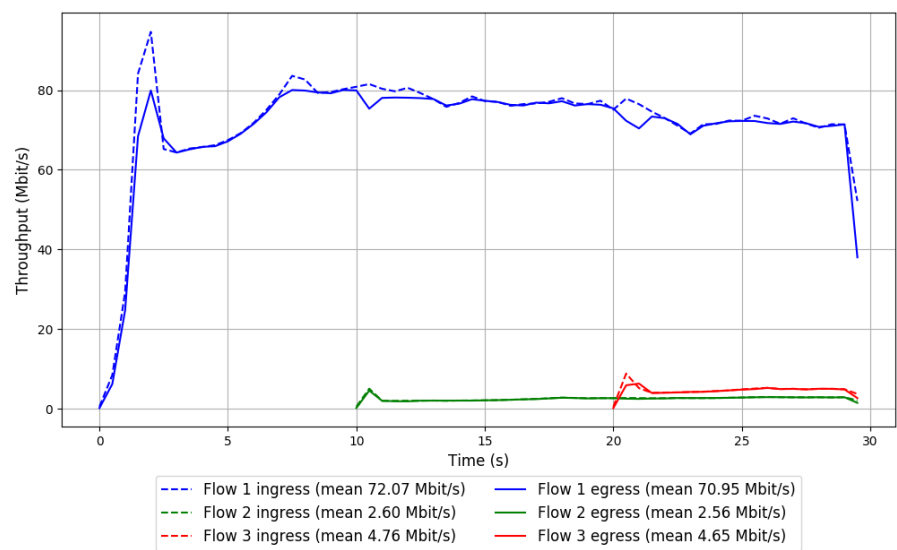
-- Flow 3:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 79.650 ms

Loss rate: 3.97%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-03 19:41:01

End at: 2018-04-03 19:41:31

Local clock offset: -2.96 ms

Remote clock offset: 6.612 ms

Below is generated by plot.py at 2018-04-04 01:08:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 117.946 ms

Loss rate: 5.43%

-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 116.680 ms

Loss rate: 5.44%

-- Flow 2:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 119.088 ms

Loss rate: 6.67%

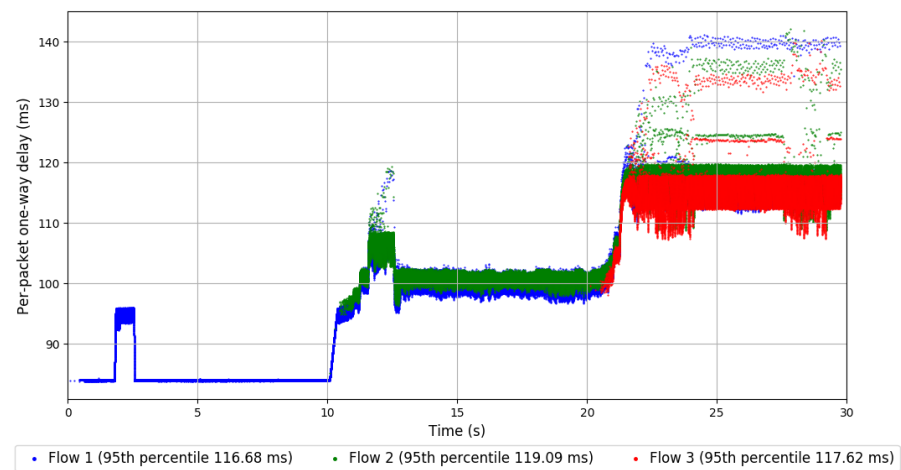
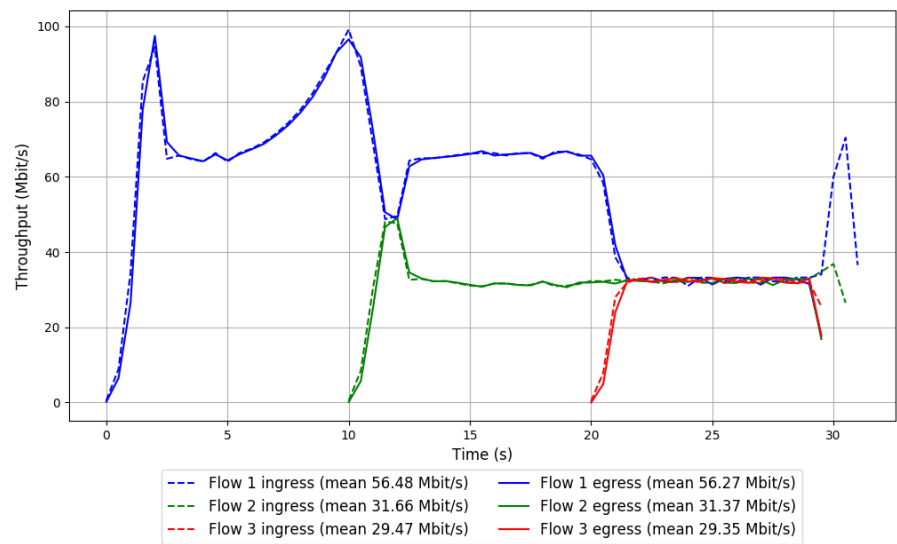
-- Flow 3:

Average throughput: 29.35 Mbit/s

95th percentile per-packet one-way delay: 117.624 ms

Loss rate: 2.49%

Run 7: Report of PCC — Data Link

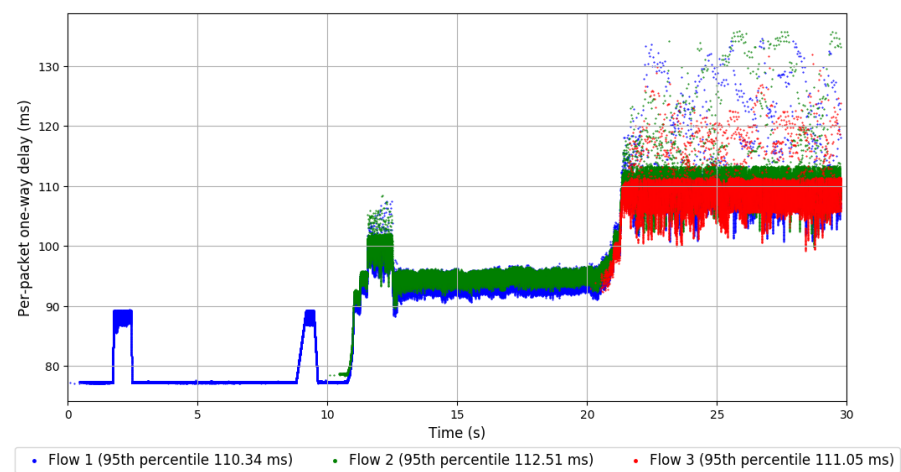
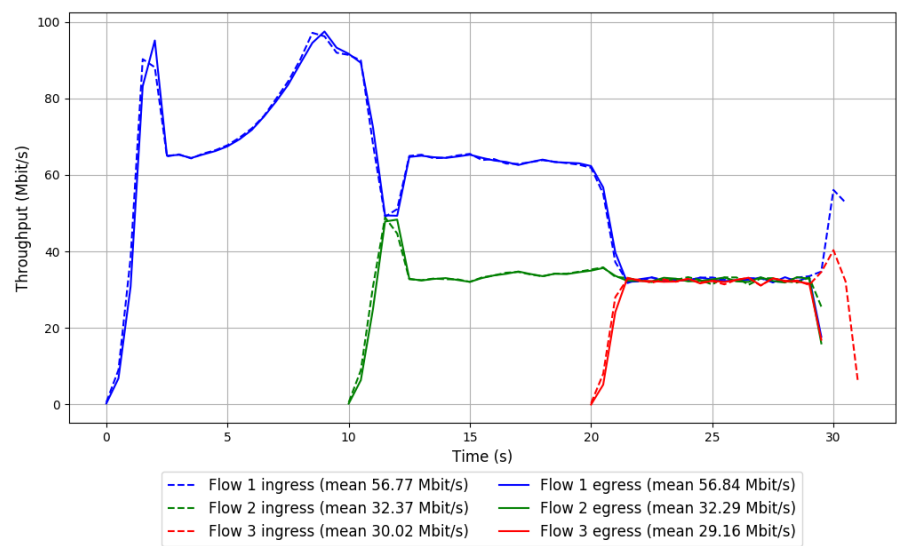


Run 8: Statistics of PCC

Start at: 2018-04-03 20:04:51
End at: 2018-04-03 20:05:21
Local clock offset: -3.159 ms
Remote clock offset: 12.971 ms

Below is generated by plot.py at 2018-04-04 01:08:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.73 Mbit/s
95th percentile per-packet one-way delay: 111.304 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 110.337 ms
Loss rate: 3.81%
-- Flow 2:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 112.506 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 111.047 ms
Loss rate: 15.47%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-03 20:28:41

End at: 2018-04-03 20:29:11

Local clock offset: -4.648 ms

Remote clock offset: 5.217 ms

Below is generated by plot.py at 2018-04-04 01:09:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 118.026 ms

Loss rate: 4.68%

-- Flow 1:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 118.145 ms

Loss rate: 3.89%

-- Flow 2:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 117.449 ms

Loss rate: 7.52%

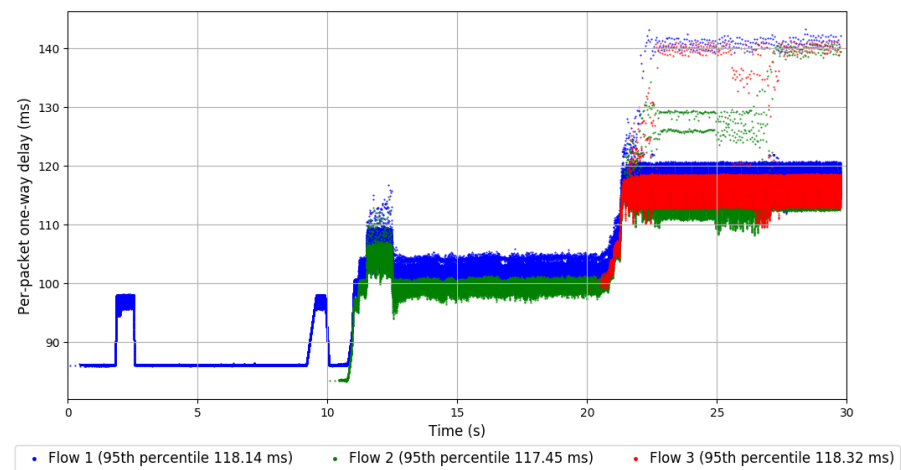
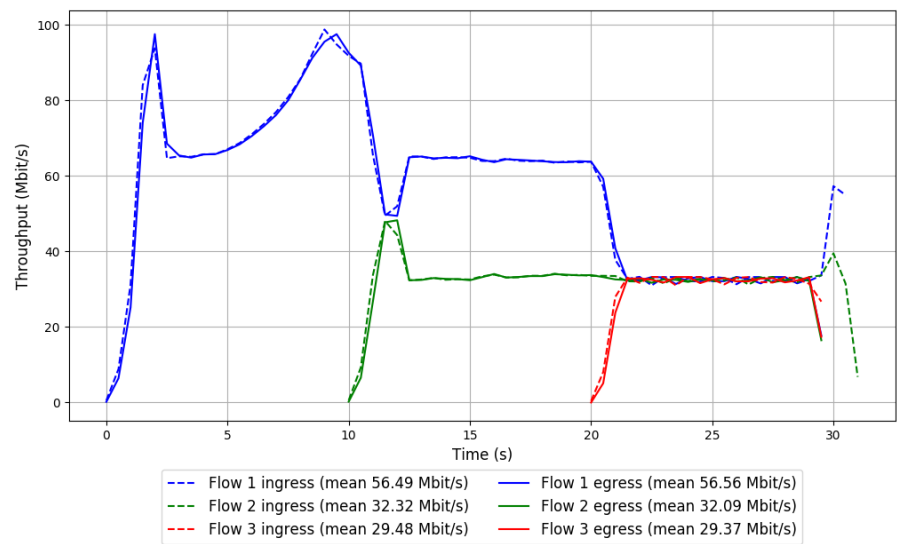
-- Flow 3:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 118.321 ms

Loss rate: 2.75%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-03 20:52:50

End at: 2018-04-03 20:53:20

Local clock offset: -6.805 ms

Remote clock offset: 5.437 ms

Below is generated by plot.py at 2018-04-04 01:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 118.479 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 118.924 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 117.510 ms

Loss rate: 3.94%

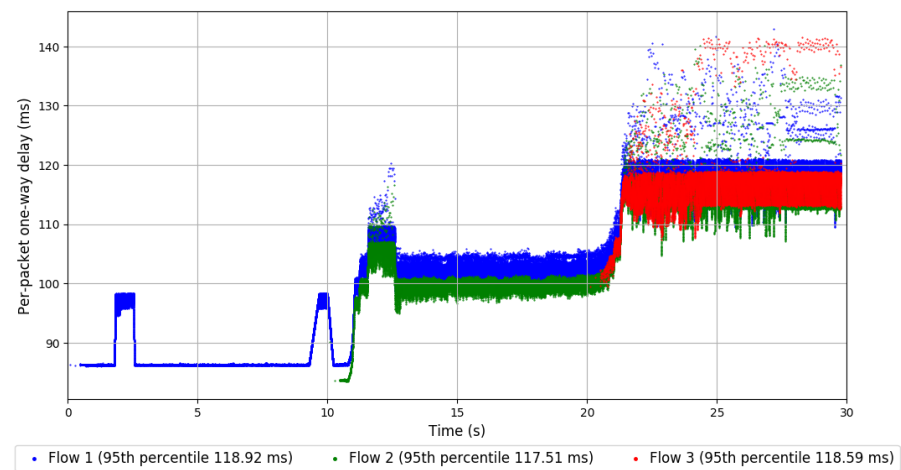
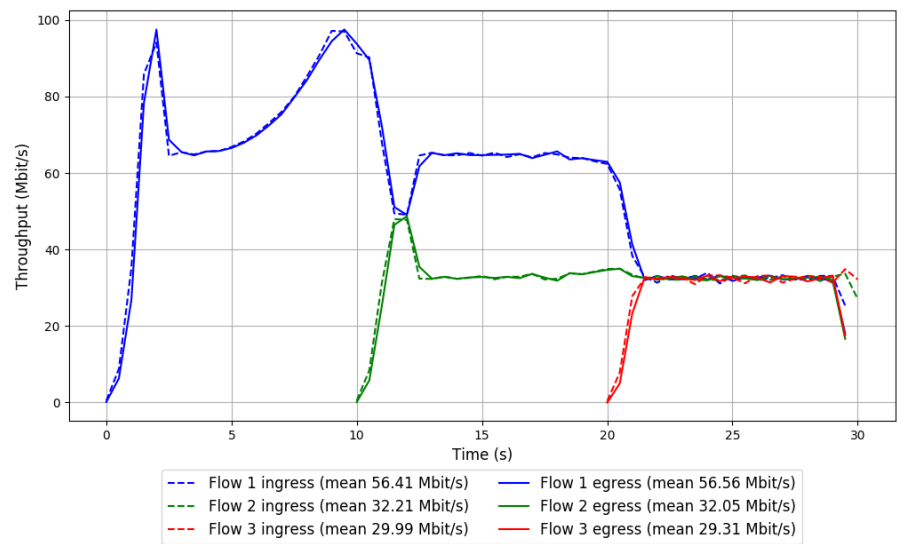
-- Flow 3:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 118.590 ms

Loss rate: 9.02%

Run 10: Report of PCC — Data Link

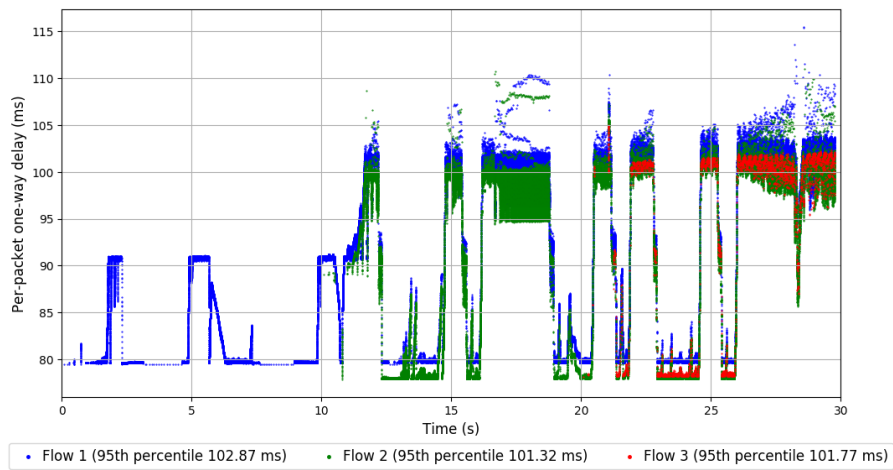
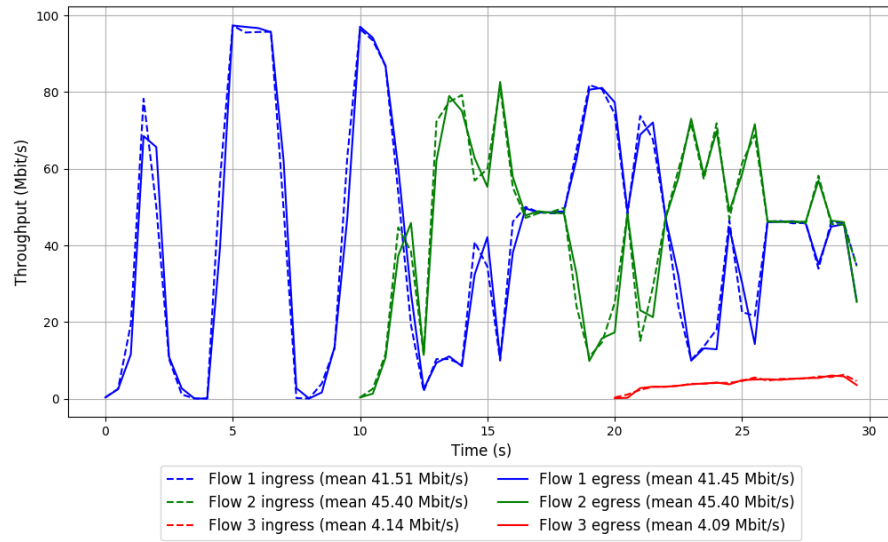


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-03 17:05:48
End at: 2018-04-03 17:06:18
Local clock offset: -7.227 ms
Remote clock offset: 12.643 ms

Below is generated by plot.py at 2018-04-04 01:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 102.557 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 102.868 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 45.40 Mbit/s
95th percentile per-packet one-way delay: 101.317 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 101.771 ms
Loss rate: 3.05%

Run 1: Report of QUIC Cubic — Data Link

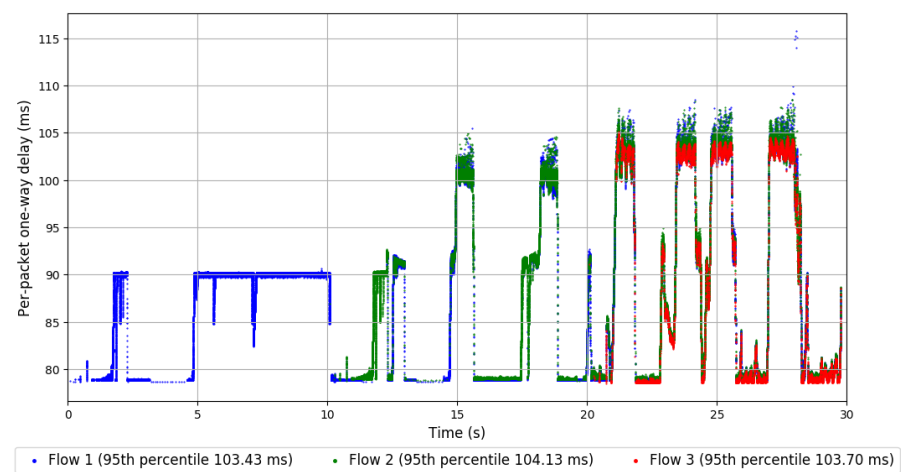
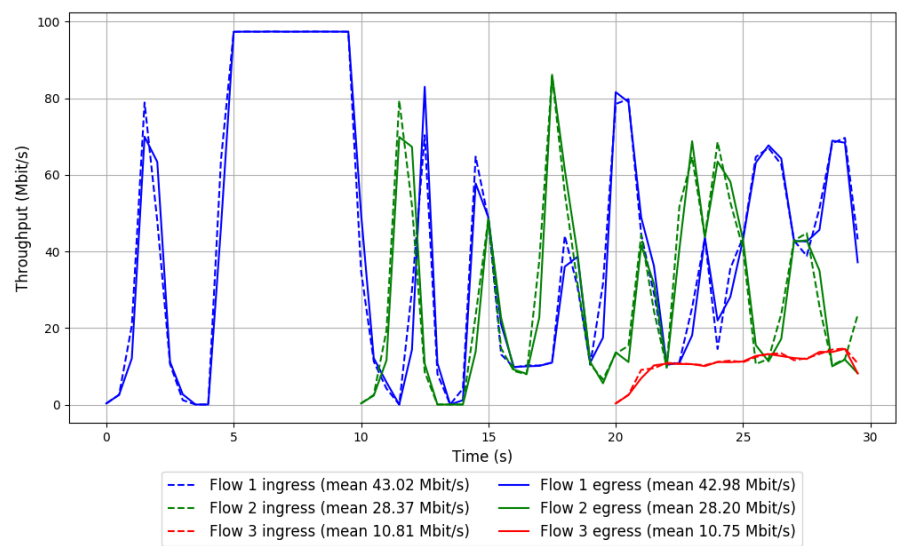


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 17:29:46
End at: 2018-04-03 17:30:16
Local clock offset: -3.139 ms
Remote clock offset: 11.485 ms

Below is generated by plot.py at 2018-04-04 01:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.18 Mbit/s
95th percentile per-packet one-way delay: 103.752 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 103.428 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 28.20 Mbit/s
95th percentile per-packet one-way delay: 104.128 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 103.699 ms
Loss rate: 2.43%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 17:53:36

End at: 2018-04-03 17:54:06

Local clock offset: -4.314 ms

Remote clock offset: 6.296 ms

Below is generated by plot.py at 2018-04-04 01:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.32 Mbit/s

95th percentile per-packet one-way delay: 110.606 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 110.149 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 110.914 ms

Loss rate: 0.21%

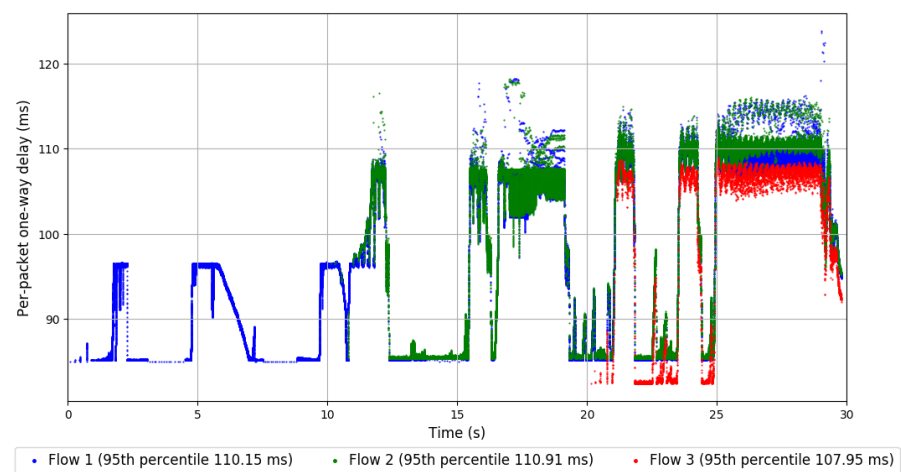
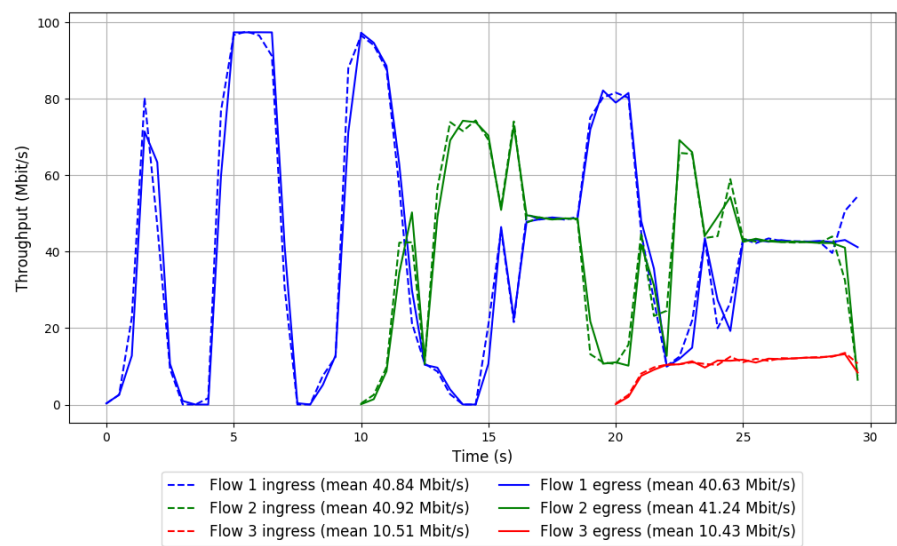
-- Flow 3:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 107.953 ms

Loss rate: 2.57%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-03 18:17:23

End at: 2018-04-03 18:17:53

Local clock offset: -6.592 ms

Remote clock offset: 11.24 ms

Below is generated by plot.py at 2018-04-04 01:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 106.485 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 103.899 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 104.513 ms

Loss rate: 0.83%

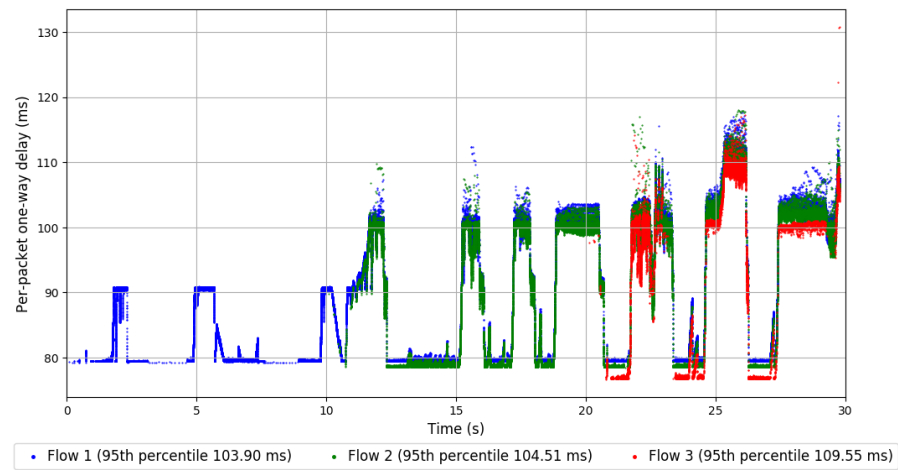
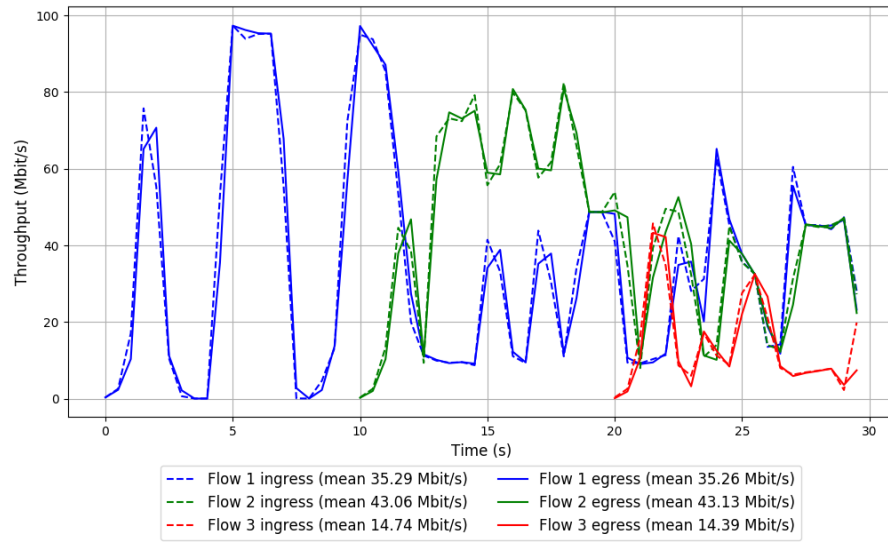
-- Flow 3:

Average throughput: 14.39 Mbit/s

95th percentile per-packet one-way delay: 109.554 ms

Loss rate: 4.38%

Run 4: Report of QUIC Cubic — Data Link

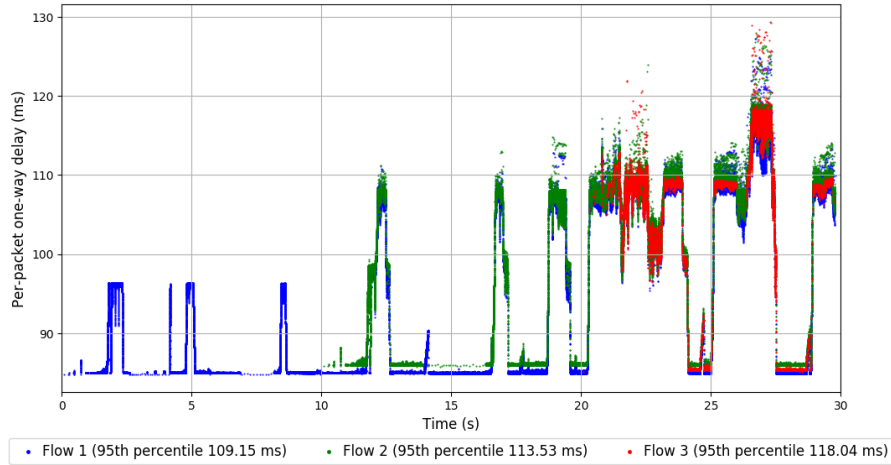
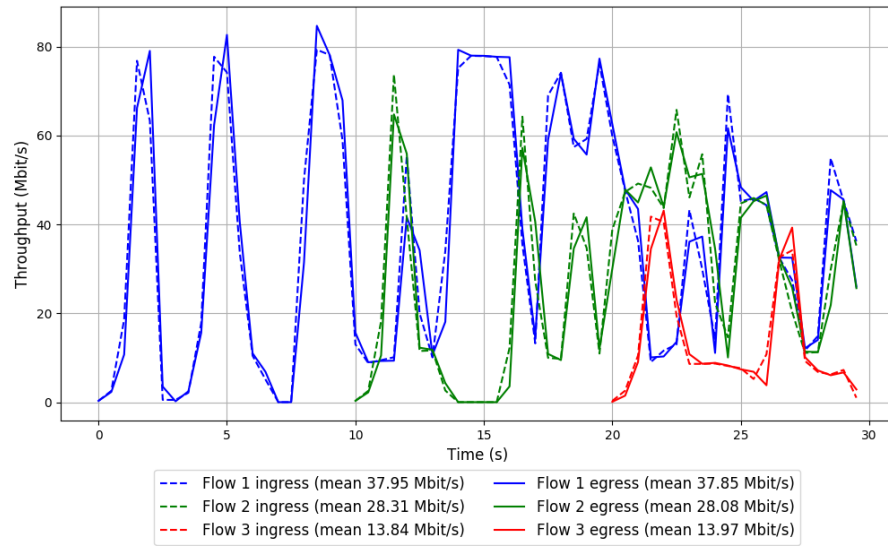


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-03 18:41:11
End at: 2018-04-03 18:41:41
Local clock offset: -2.468 ms
Remote clock offset: 3.993 ms

Below is generated by plot.py at 2018-04-04 01:10:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 111.905 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 37.85 Mbit/s
95th percentile per-packet one-way delay: 109.151 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 113.527 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 118.038 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-03 19:06:36

End at: 2018-04-03 19:07:06

Local clock offset: -2.621 ms

Remote clock offset: 5.388 ms

Below is generated by plot.py at 2018-04-04 01:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.62 Mbit/s

95th percentile per-packet one-way delay: 89.701 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 27.12 Mbit/s

95th percentile per-packet one-way delay: 92.389 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 84.044 ms

Loss rate: 1.63%

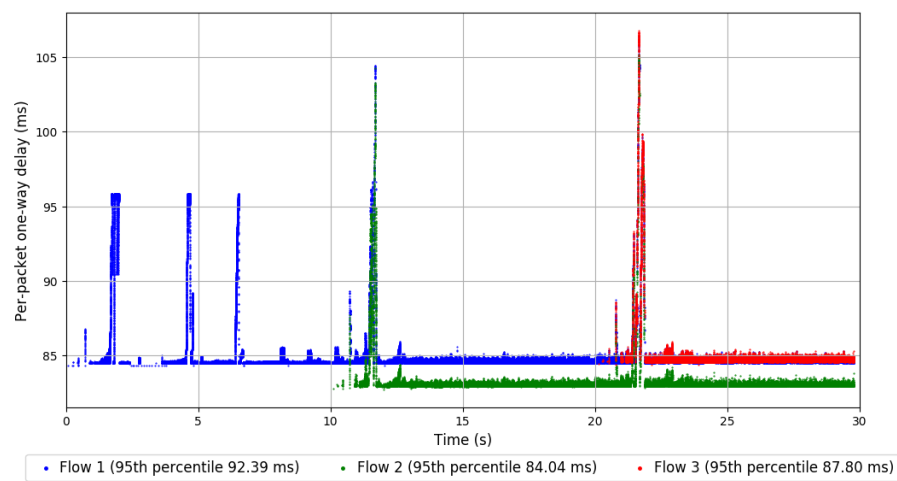
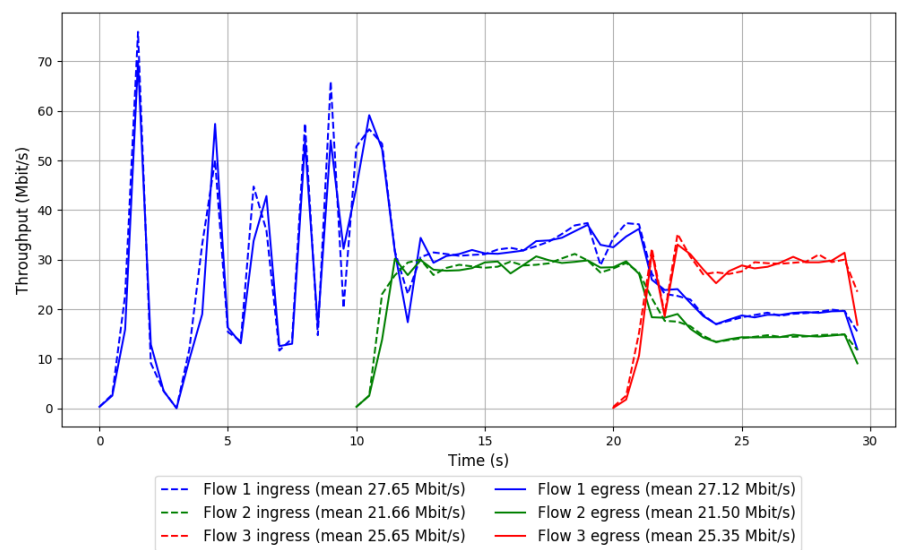
-- Flow 3:

Average throughput: 25.35 Mbit/s

95th percentile per-packet one-way delay: 87.804 ms

Loss rate: 2.98%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-03 19:30:22

End at: 2018-04-03 19:30:52

Local clock offset: -2.722 ms

Remote clock offset: 5.649 ms

Below is generated by plot.py at 2018-04-04 01:10:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 106.177 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 105.050 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 107.604 ms

Loss rate: 1.43%

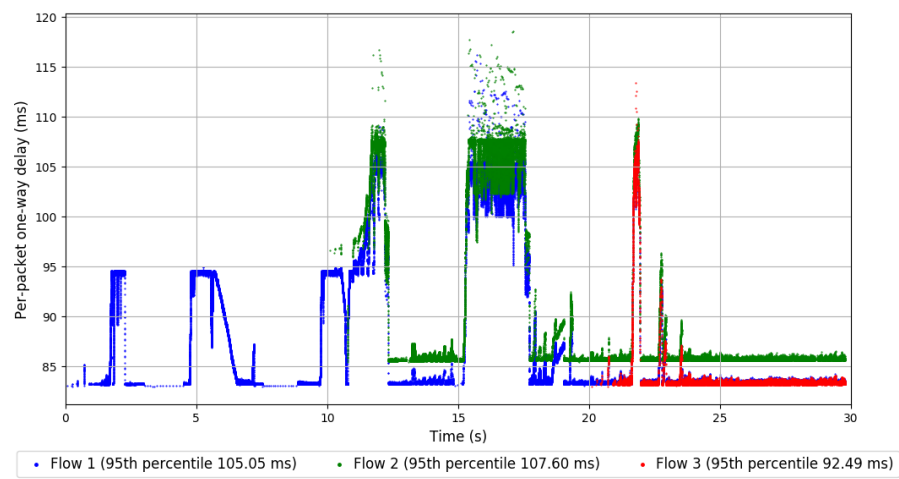
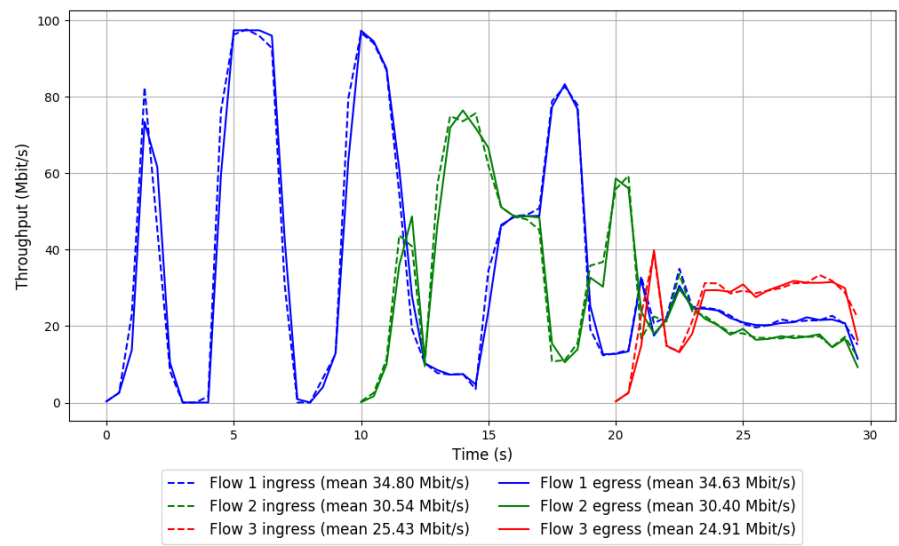
-- Flow 3:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 92.490 ms

Loss rate: 3.79%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-03 19:54:18

End at: 2018-04-03 19:54:48

Local clock offset: -2.941 ms

Remote clock offset: 6.091 ms

Below is generated by plot.py at 2018-04-04 01:10:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.42 Mbit/s

95th percentile per-packet one-way delay: 88.870 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 92.858 ms

Loss rate: 2.21%

-- Flow 2:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 86.363 ms

Loss rate: 1.53%

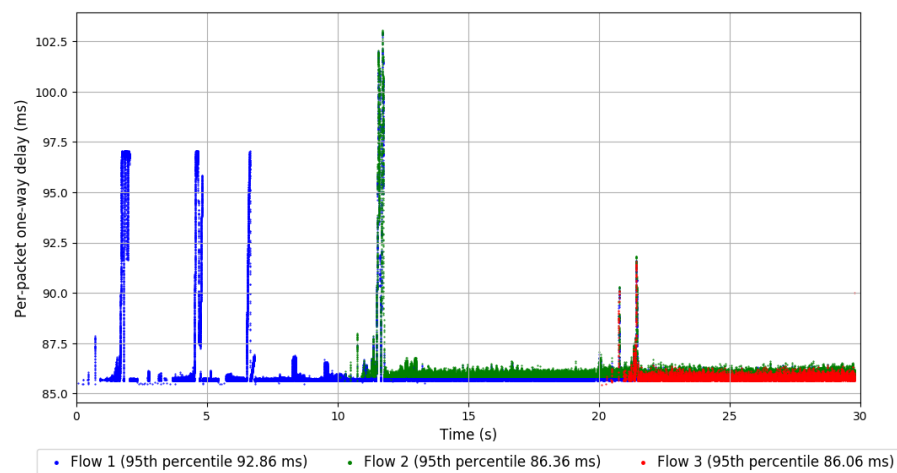
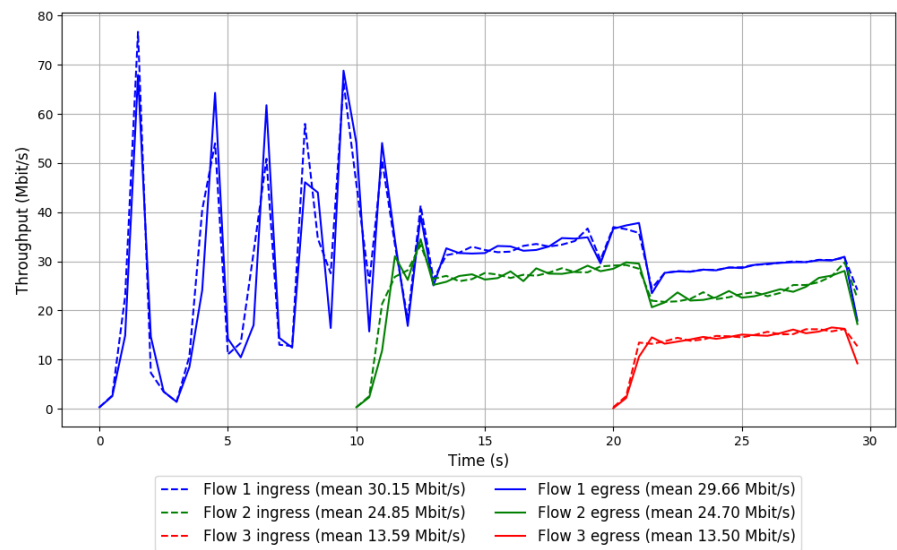
-- Flow 3:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 86.061 ms

Loss rate: 2.39%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-03 20:18:08

End at: 2018-04-03 20:18:38

Local clock offset: -4.312 ms

Remote clock offset: 5.394 ms

Below is generated by plot.py at 2018-04-04 01:10:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.24 Mbit/s

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

Loss rate: 1.49%

-- Flow 1:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 88.082 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 84.539 ms

Loss rate: 1.35%

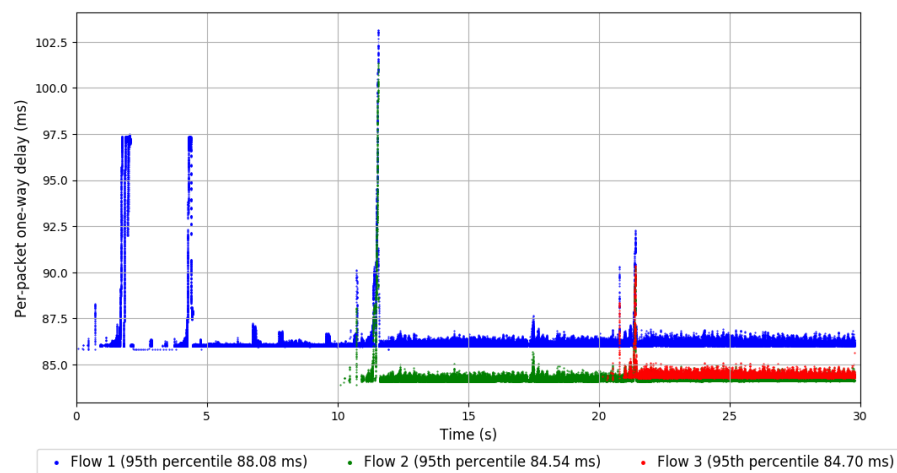
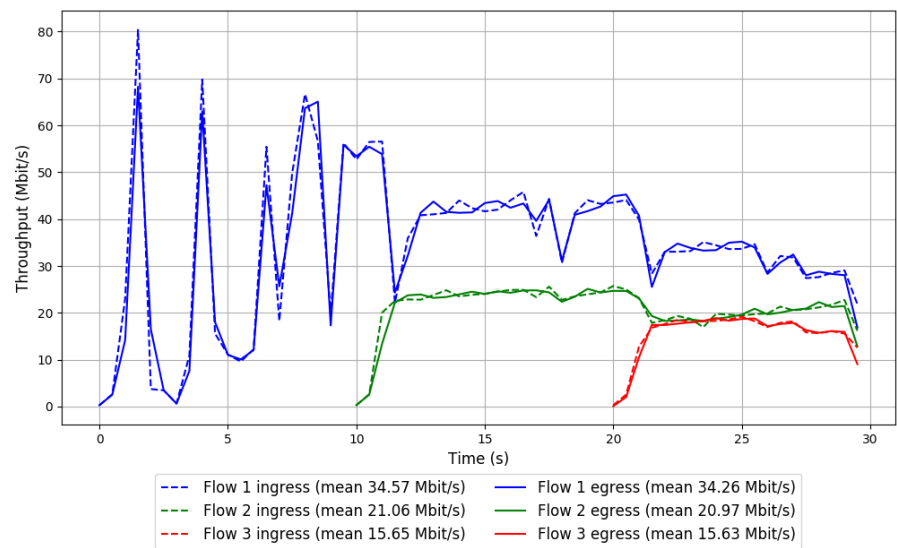
-- Flow 3:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 84.704 ms

Loss rate: 1.92%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-03 20:42:10

End at: 2018-04-03 20:42:40

Local clock offset: -5.663 ms

Remote clock offset: 6.343 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 113.787 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 112.713 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 114.992 ms

Loss rate: 1.55%

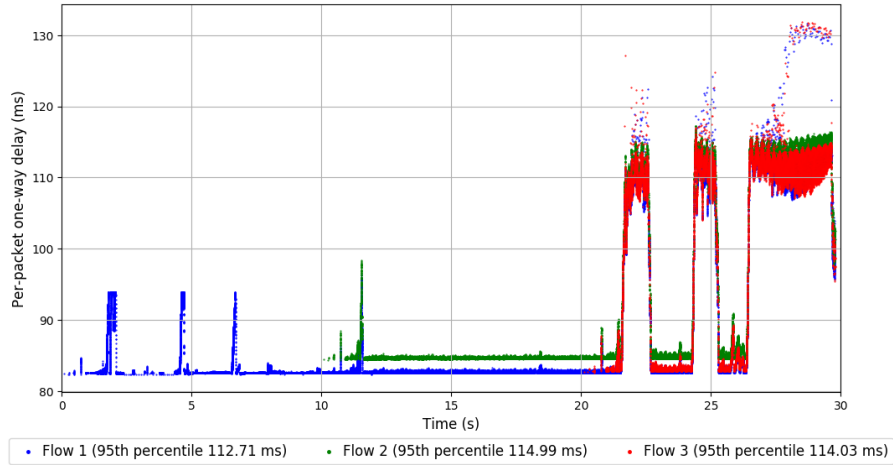
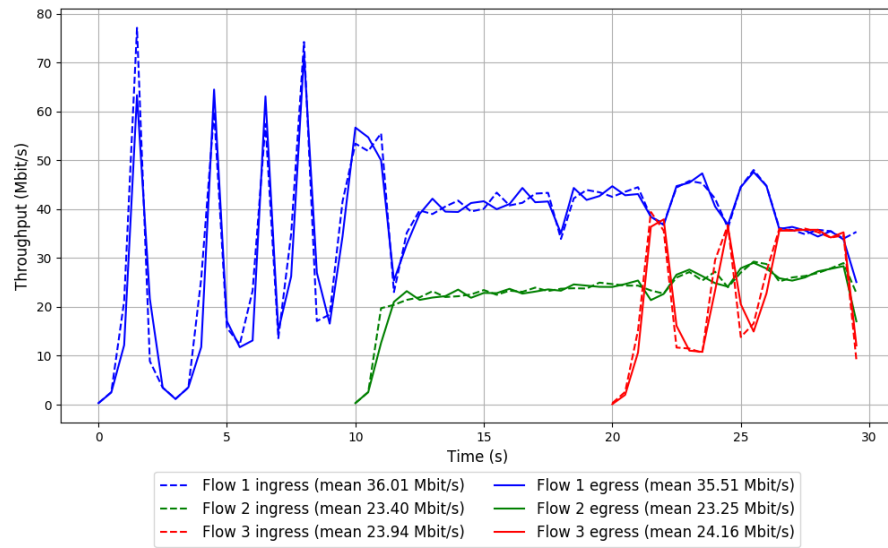
-- Flow 3:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 114.032 ms

Loss rate: 0.91%

Run 10: Report of QUIC Cubic — Data Link

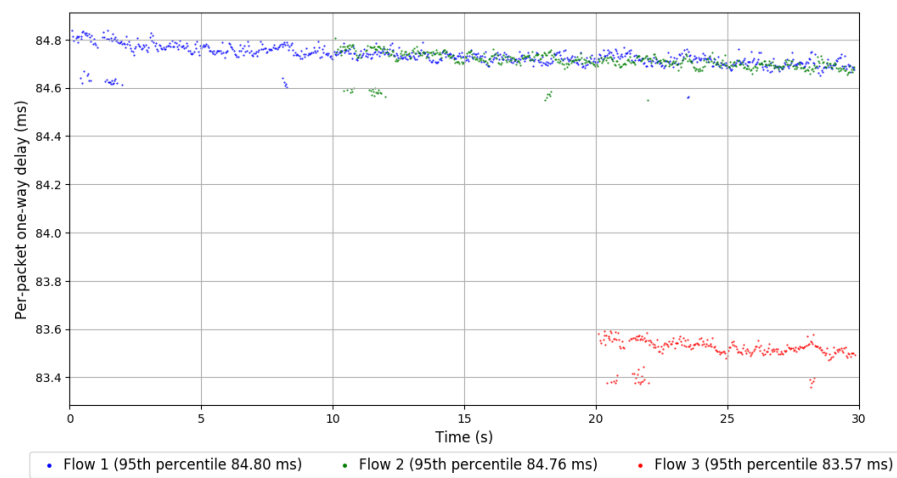
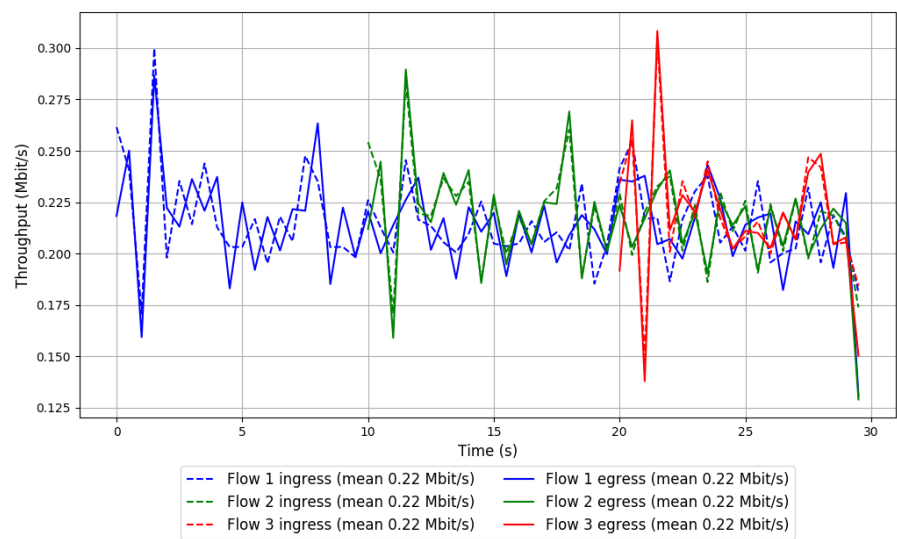


```
Run 1: Statistics of SCReAM

Start at: 2018-04-03 17:23:06
End at: 2018-04-03 17:23:36
Local clock offset: -4.08 ms
Remote clock offset: 5.986 ms

# Below is generated by plot.py at 2018-04-04 01:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.782 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.795 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.762 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.572 ms
Loss rate: 1.50%
```

Run 1: Report of SReAM — Data Link

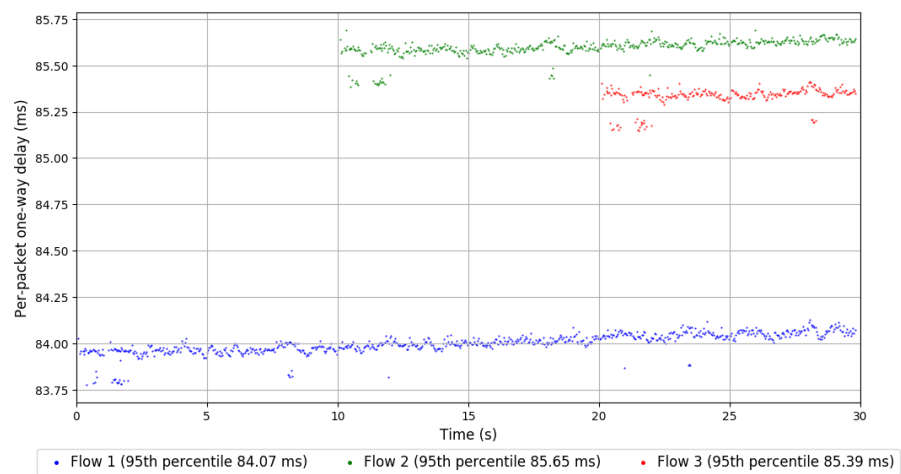
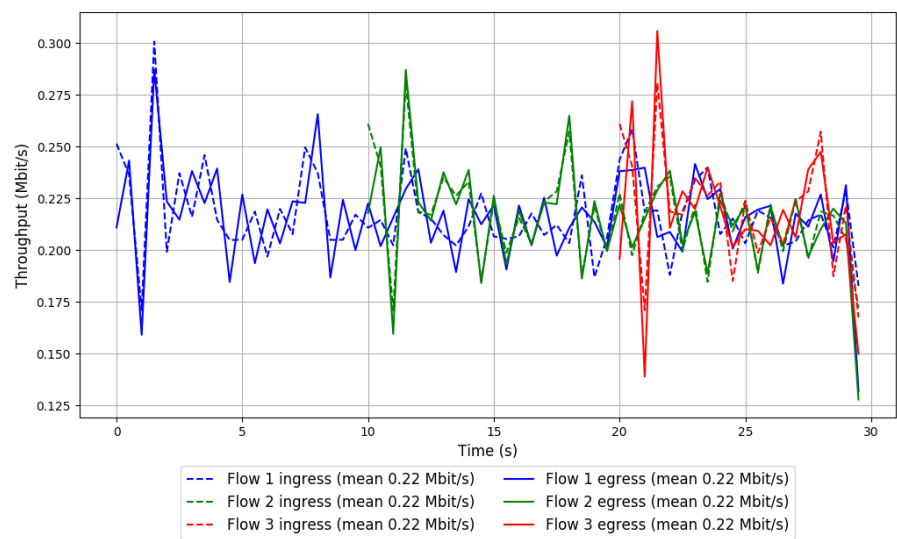


```
Run 2: Statistics of SReAM

Start at: 2018-04-03 17:46:57
End at: 2018-04-03 17:47:27
Local clock offset: -2.14 ms
Remote clock offset: 6.3 ms

# Below is generated by plot.py at 2018-04-04 01:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.634 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.073 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.650 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.386 ms
Loss rate: 1.49%
```

Run 2: Report of SReAM — Data Link

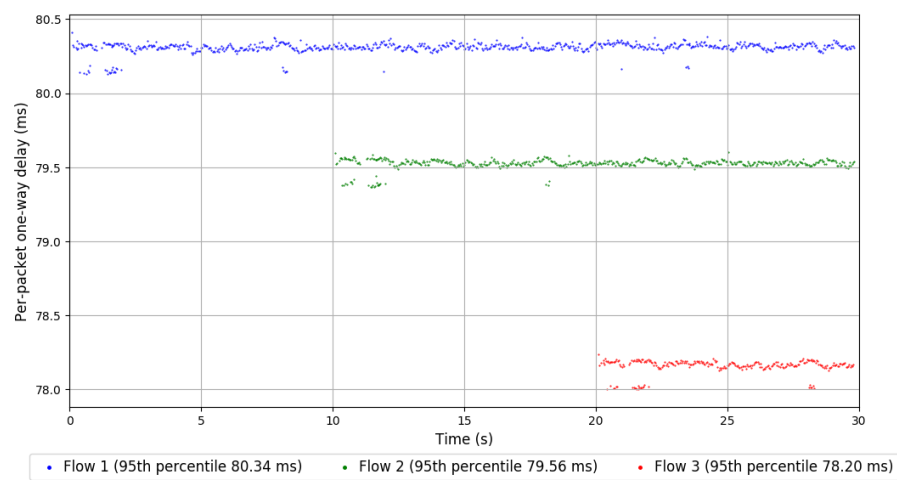
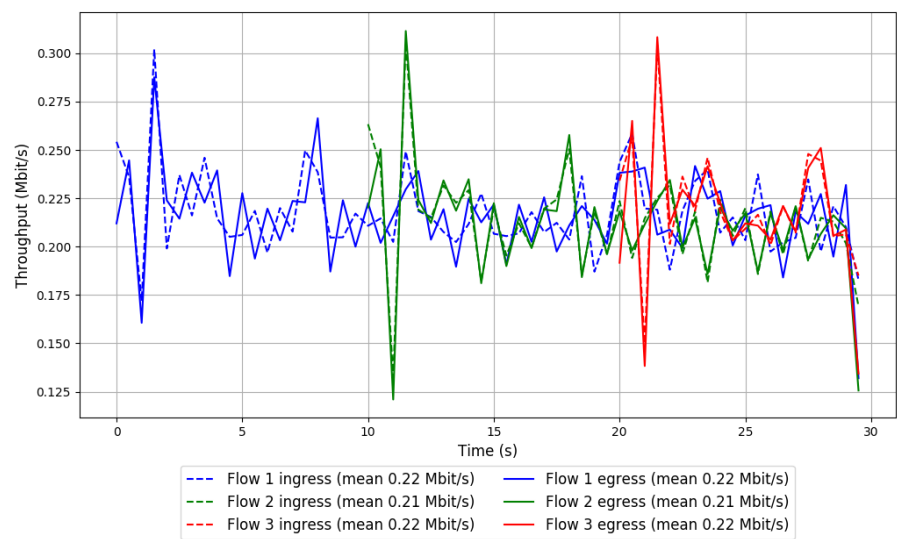


Run 3: Statistics of SReAM

Start at: 2018-04-03 18:10:45
End at: 2018-04-03 18:11:15
Local clock offset: -6.335 ms
Remote clock offset: 10.44 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.338 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.345 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 79.561 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.198 ms
Loss rate: 1.87%

Run 3: Report of SReAM — Data Link

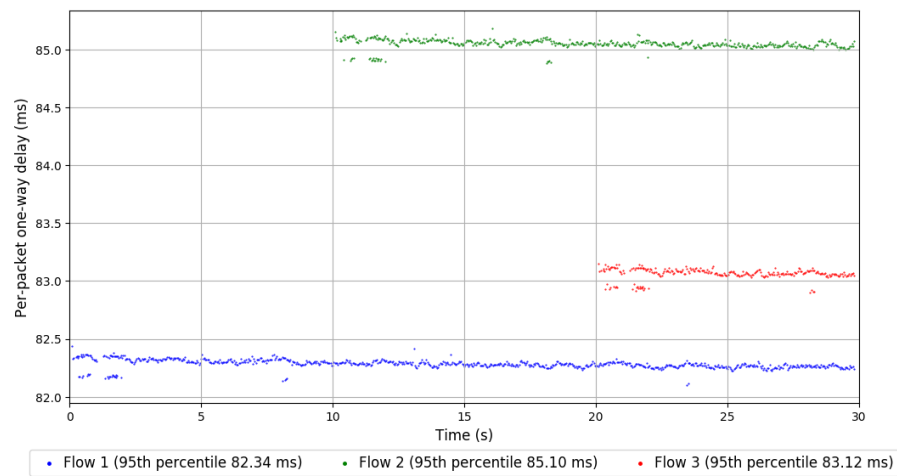
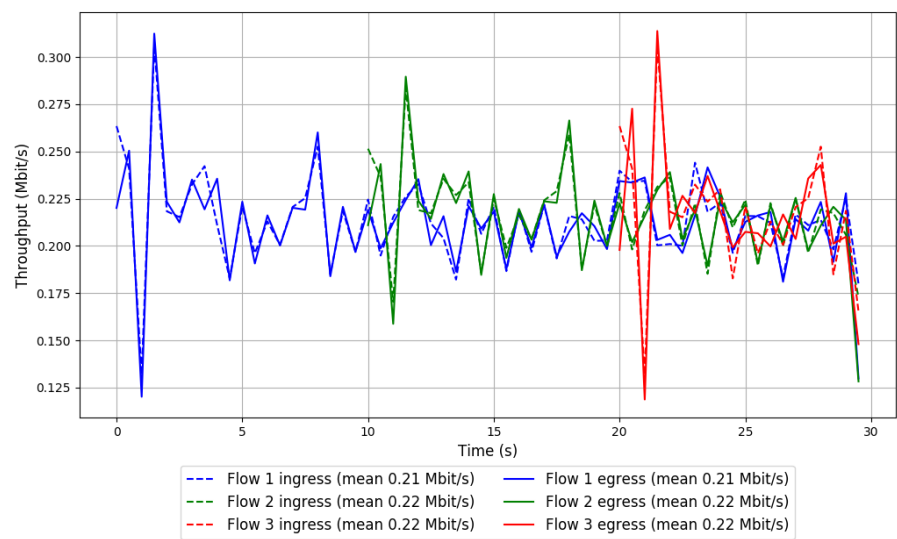


Run 4: Statistics of SReAM

Start at: 2018-04-03 18:34:32
End at: 2018-04-03 18:35:02
Local clock offset: -3.239 ms
Remote clock offset: 5.108 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.082 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 82.345 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.102 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.116 ms
Loss rate: 1.49%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-03 18:58:18

End at: 2018-04-03 18:58:48

Local clock offset: -1.978 ms

Remote clock offset: 5.295 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 84.066 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.058 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.128 ms

Loss rate: 0.85%

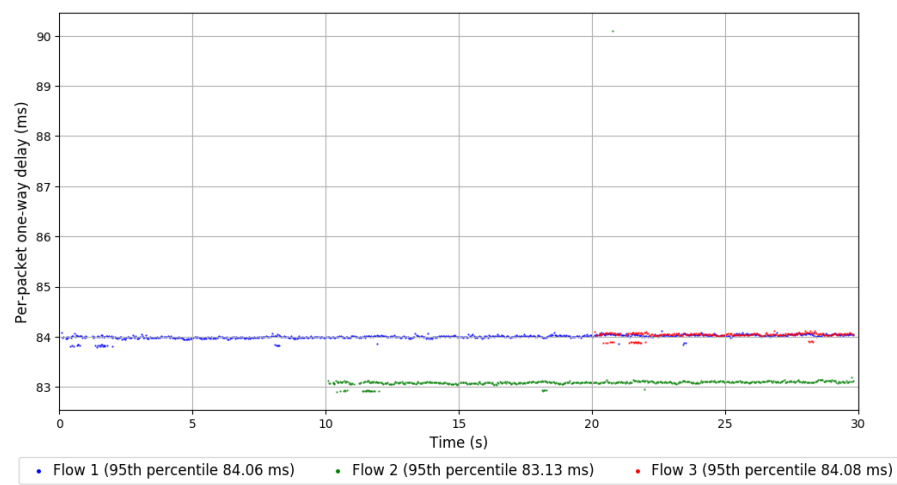
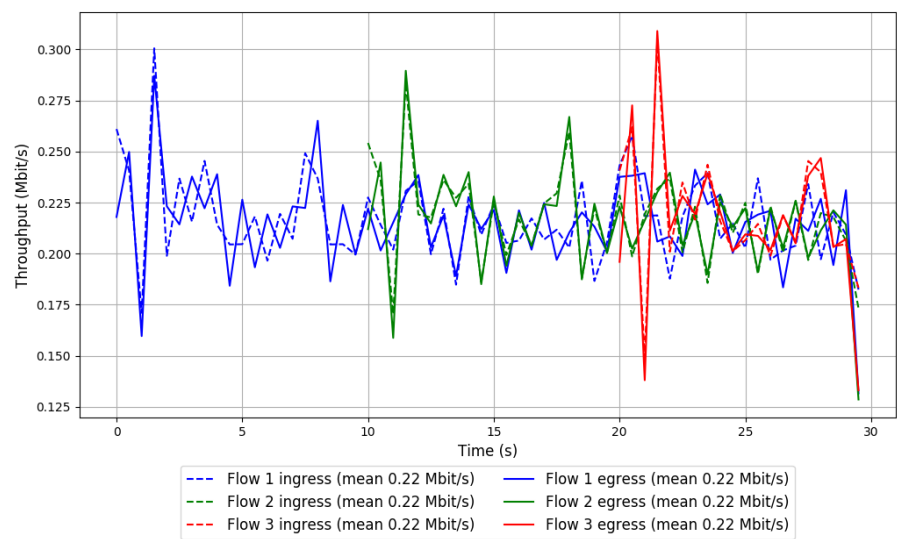
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.083 ms

Loss rate: 1.86%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-03 19:23:43

End at: 2018-04-03 19:24:13

Local clock offset: -2.68 ms

Remote clock offset: 3.855 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 84.780 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.957 ms

Loss rate: 0.85%

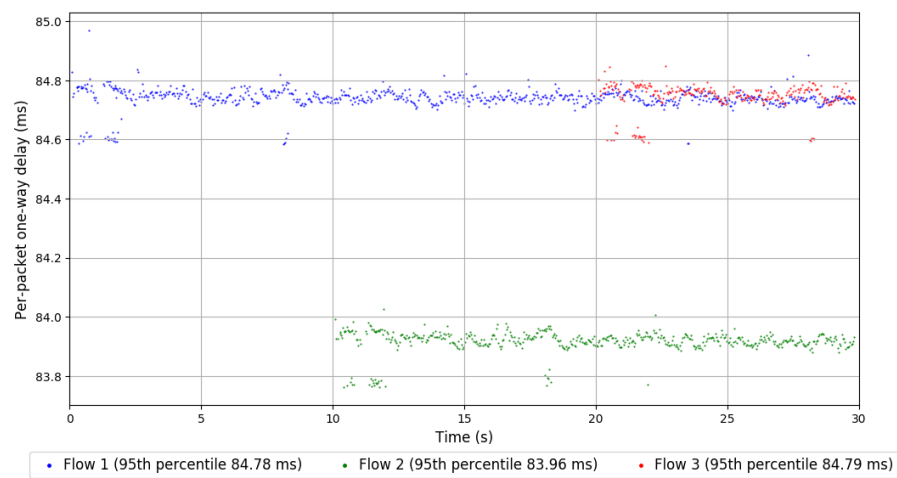
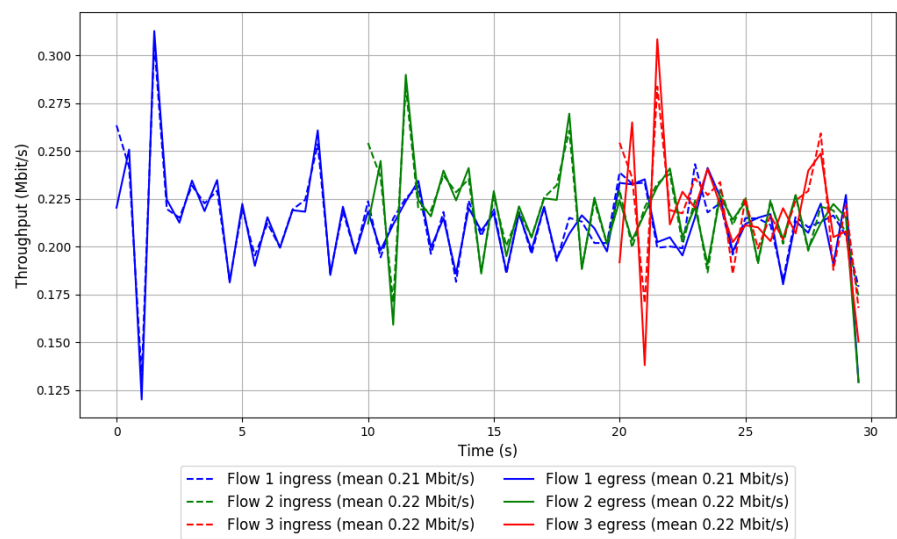
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.790 ms

Loss rate: 1.50%

Run 6: Report of SReAM — Data Link

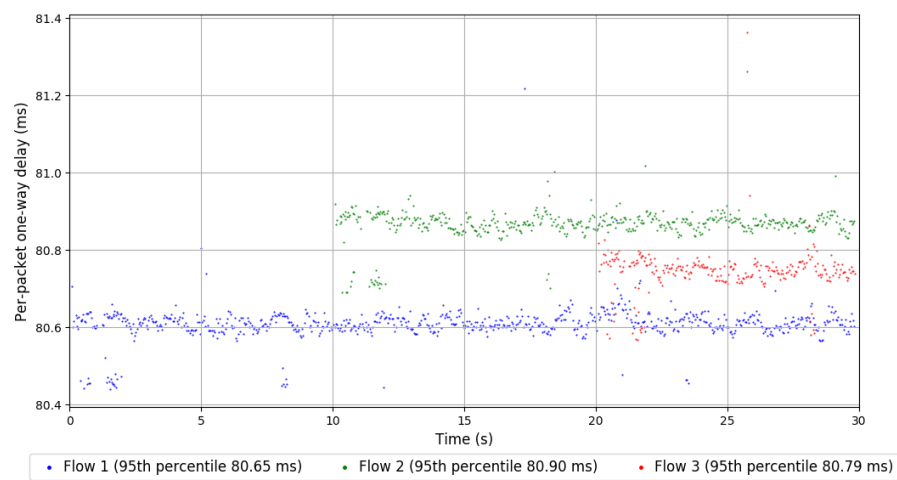
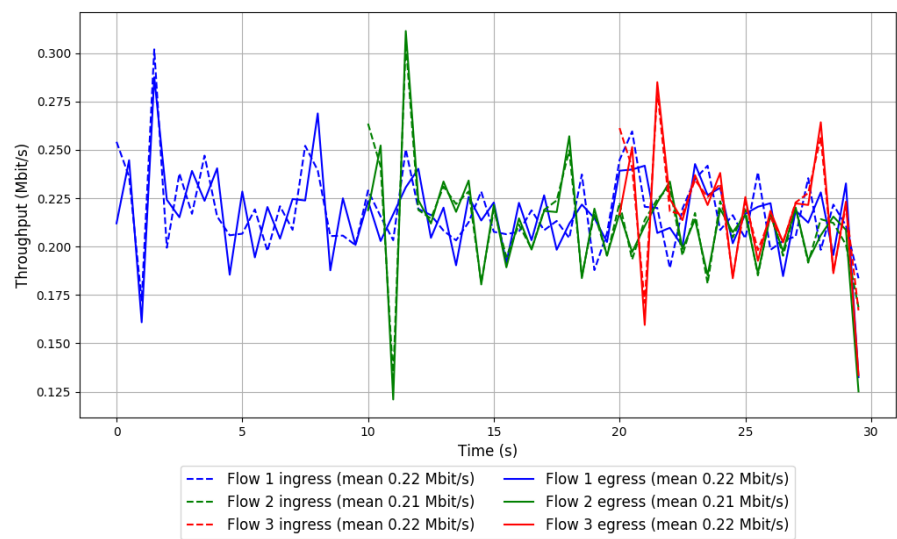


Run 7: Statistics of SReAM

Start at: 2018-04-03 19:47:40
End at: 2018-04-03 19:48:10
Local clock offset: -2.95 ms
Remote clock offset: 11.372 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.891 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.646 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 80.901 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.793 ms
Loss rate: 1.49%

Run 7: Report of SCRaM — Data Link

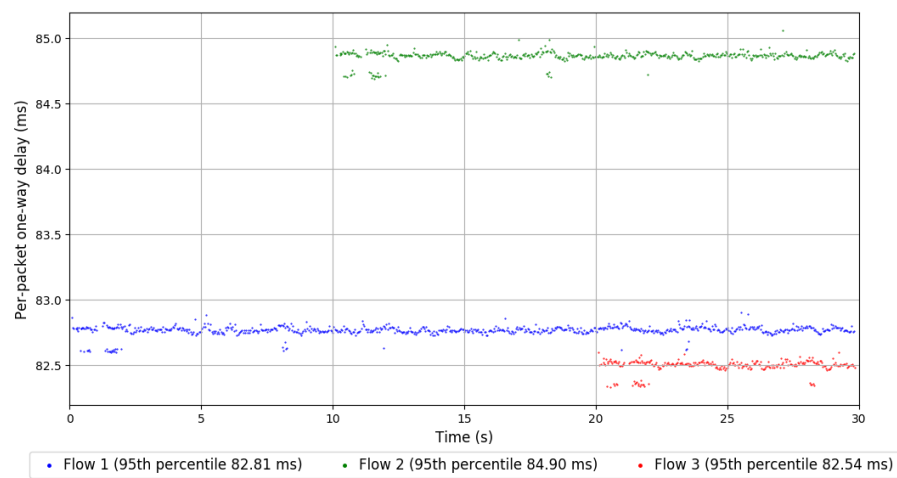
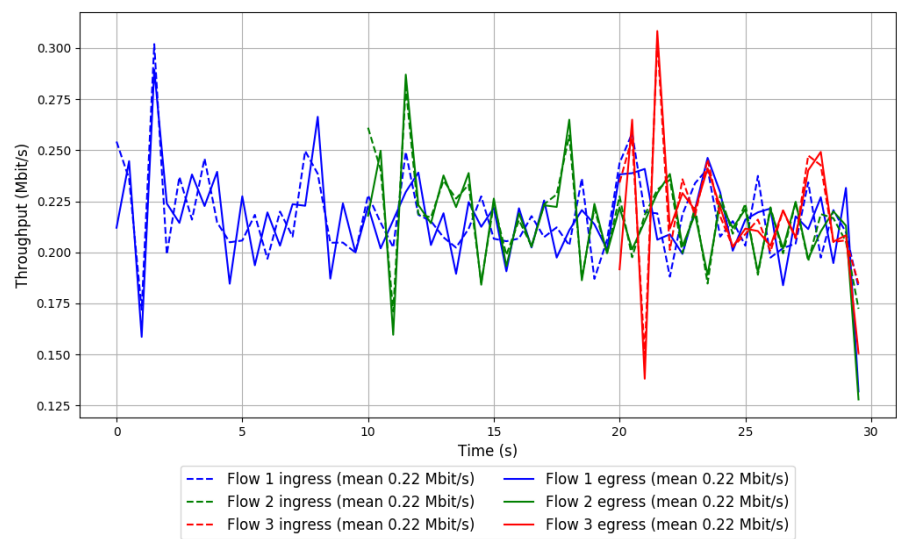


Run 8: Statistics of SReAM

Start at: 2018-04-03 20:11:28
End at: 2018-04-03 20:11:58
Local clock offset: -3.875 ms
Remote clock offset: 6.695 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.887 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.811 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.901 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.544 ms
Loss rate: 1.50%

Run 8: Report of SReAM — Data Link

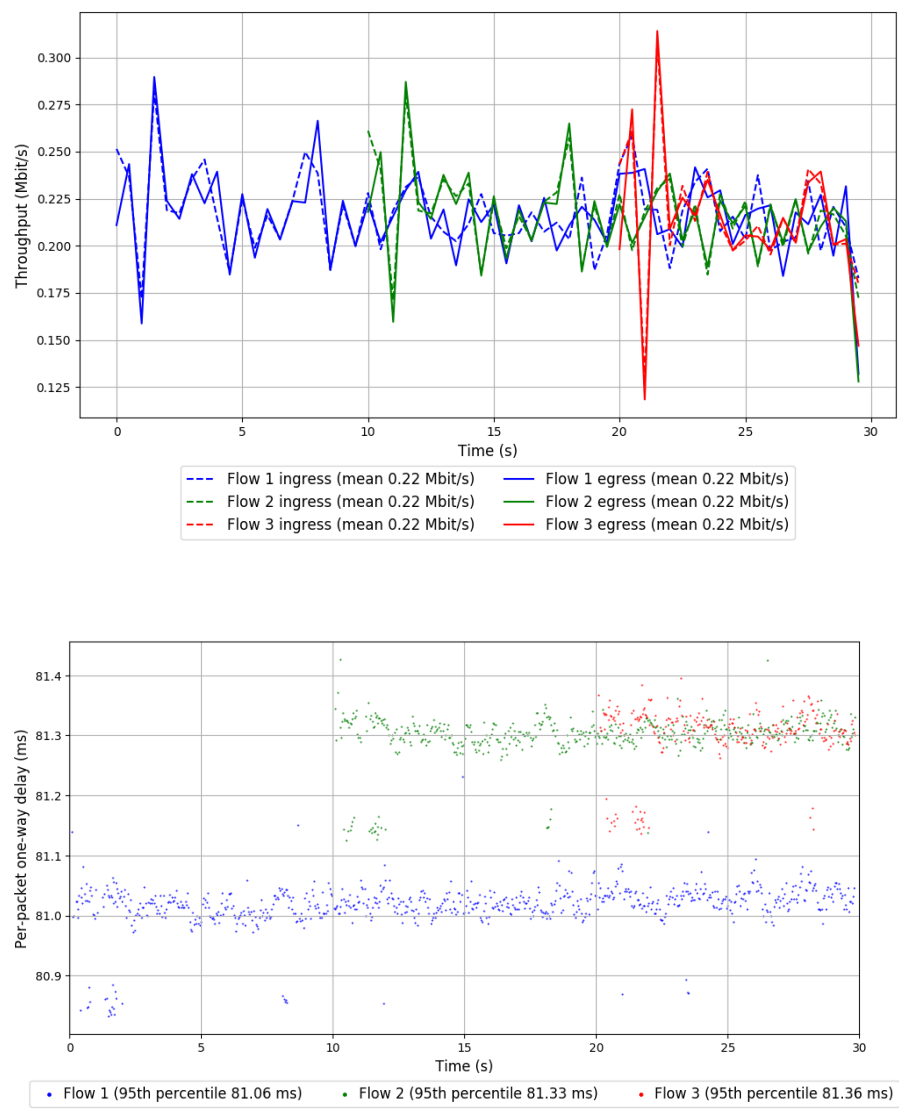


Run 9: Statistics of SReAM

Start at: 2018-04-03 20:35:29
End at: 2018-04-03 20:36:00
Local clock offset: -4.833 ms
Remote clock offset: 10.041 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.333 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.055 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.334 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.357 ms
Loss rate: 1.49%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-03 20:59:24

End at: 2018-04-03 20:59:54

Local clock offset: -7.266 ms

Remote clock offset: 5.452 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 86.012 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.314 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.346 ms

Loss rate: 0.84%

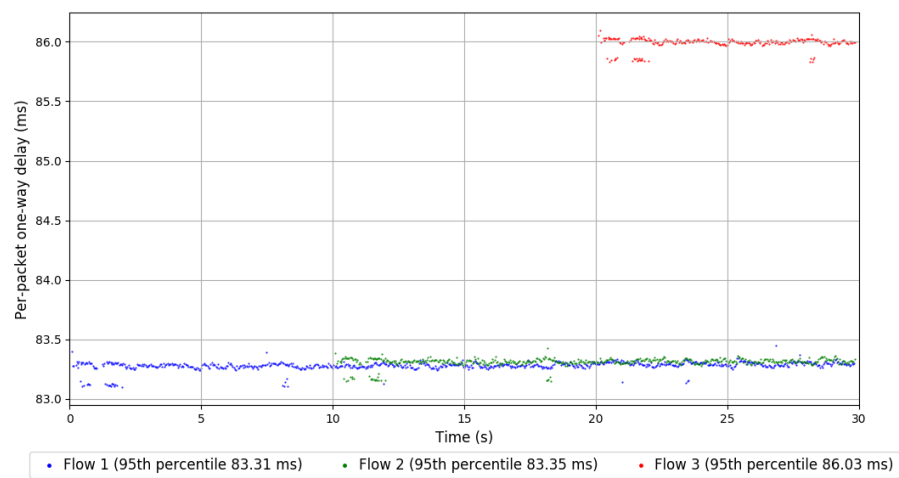
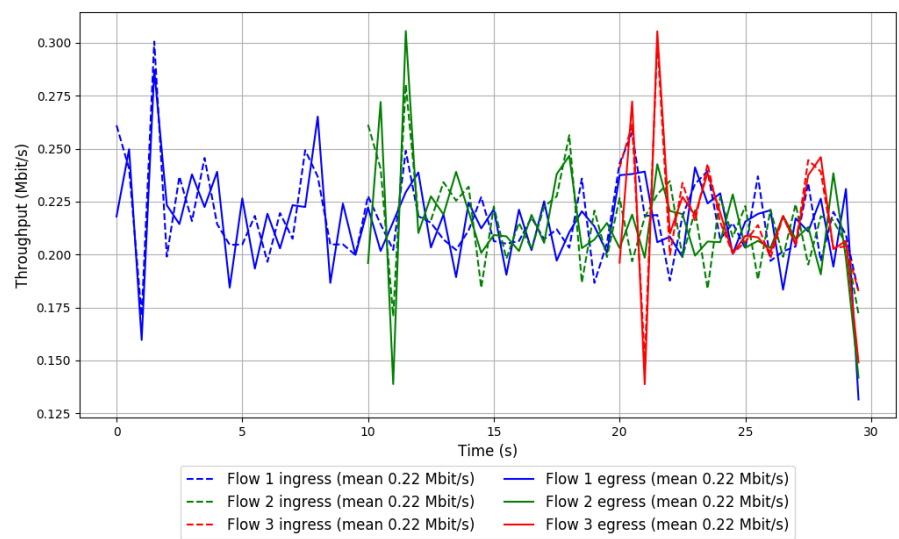
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.032 ms

Loss rate: 1.49%

Run 10: Report of SCReAM — Data Link

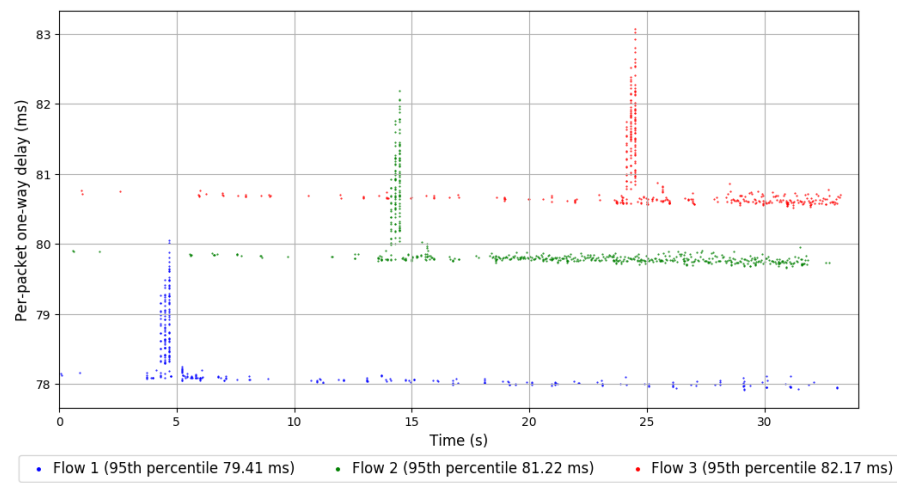
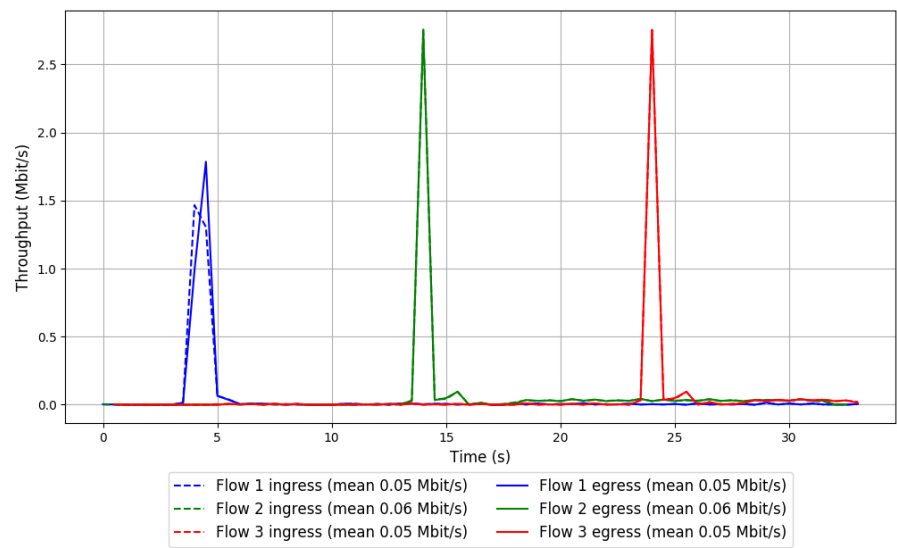


Run 1: Statistics of WebRTC media

Start at: 2018-04-03 17:17:48
End at: 2018-04-03 17:18:18
Local clock offset: -5.504 ms
Remote clock offset: 11.419 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 81.670 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 79.409 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 81.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.172 ms
Loss rate: 0.31%

Run 1: Report of WebRTC media — Data Link

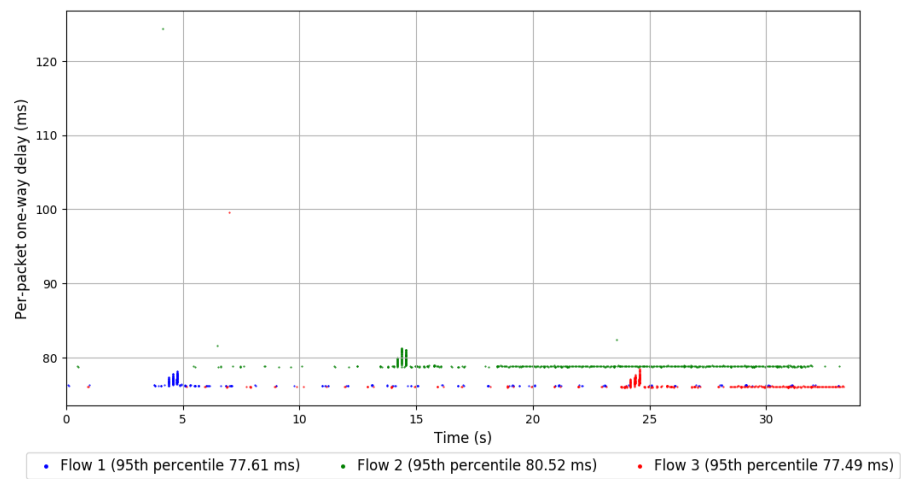
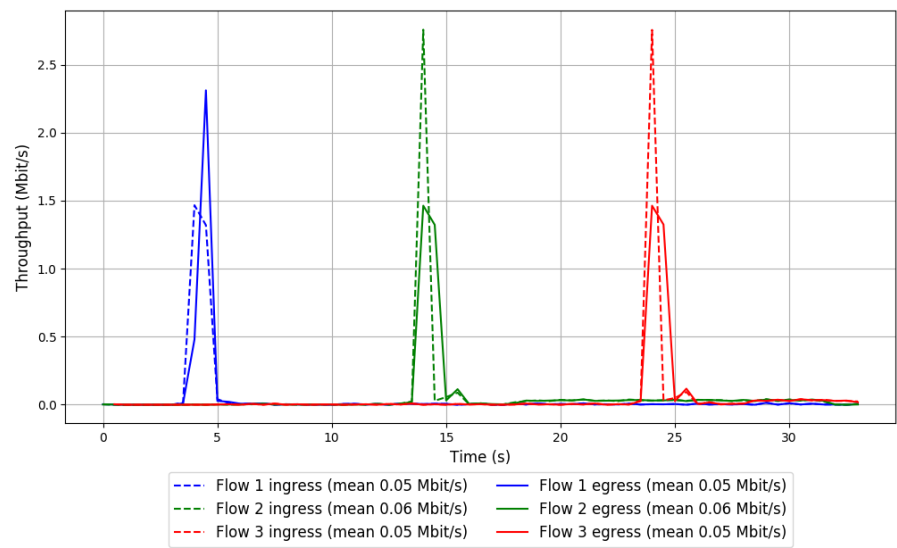


Run 2: Statistics of WebRTC media

Start at: 2018-04-03 17:41:38
End at: 2018-04-03 17:42:08
Local clock offset: -2.426 ms
Remote clock offset: 13.743 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 79.838 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 77.609 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 80.521 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 77.488 ms
Loss rate: 0.23%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-03 18:05:28

End at: 2018-04-03 18:05:58

Local clock offset: -5.909 ms

Remote clock offset: 4.834 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 86.754 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 85.089 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.825 ms

Loss rate: 0.00%

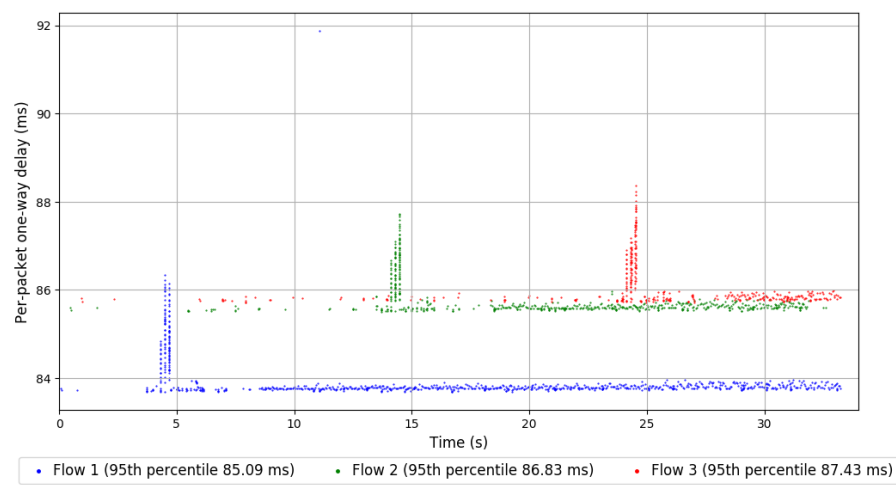
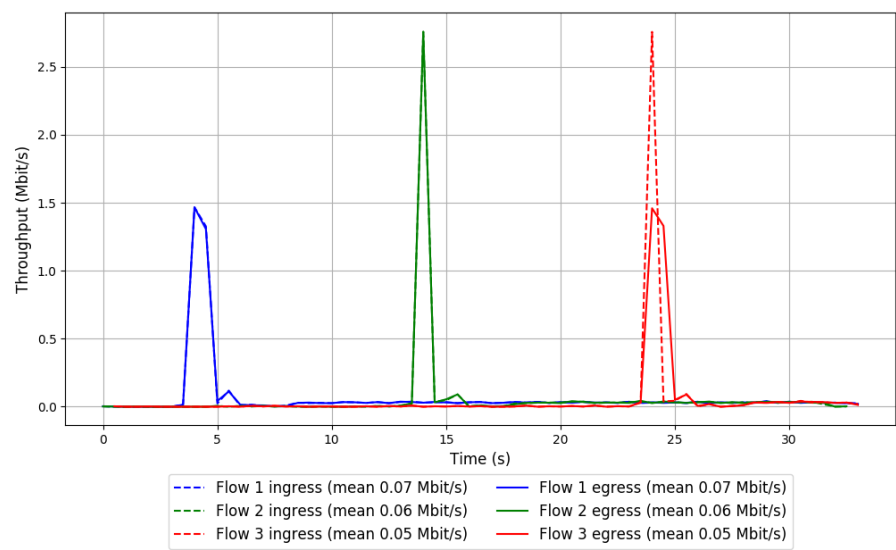
-- Flow 3:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.35%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-03 18:29:15

End at: 2018-04-03 18:29:45

Local clock offset: -4.112 ms

Remote clock offset: 8.975 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 80.865 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.703 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 79.379 ms

Loss rate: 0.00%

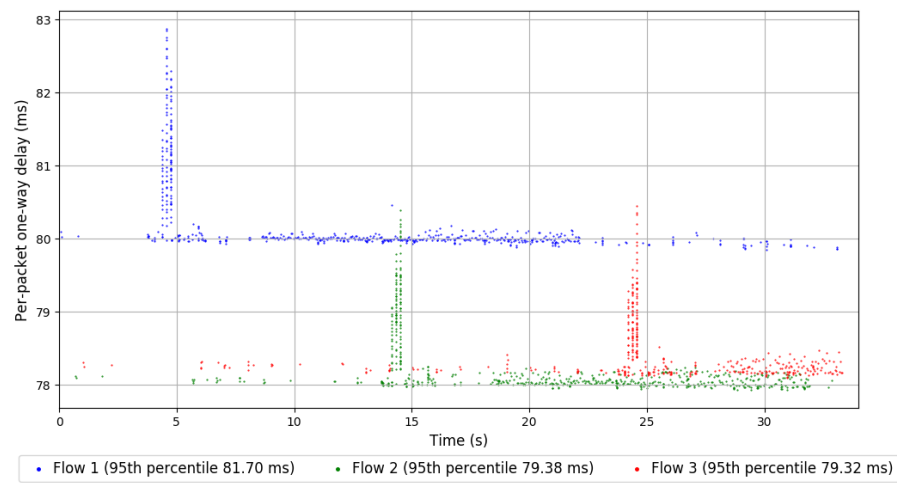
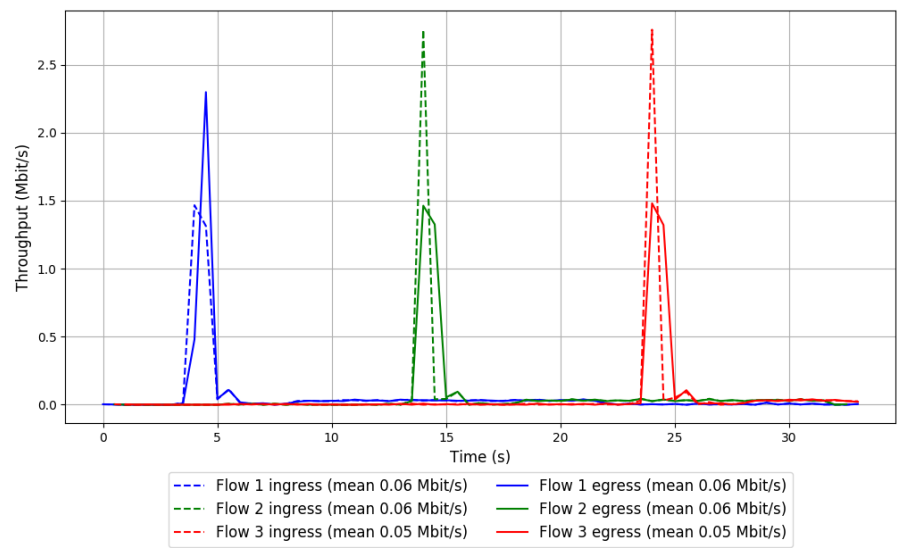
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 79.323 ms

Loss rate: 0.31%

Run 4: Report of WebRTC media — Data Link

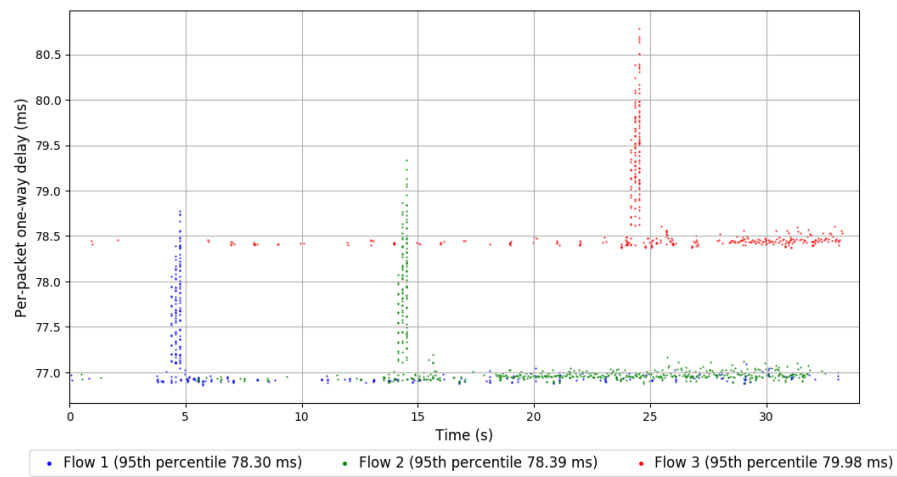
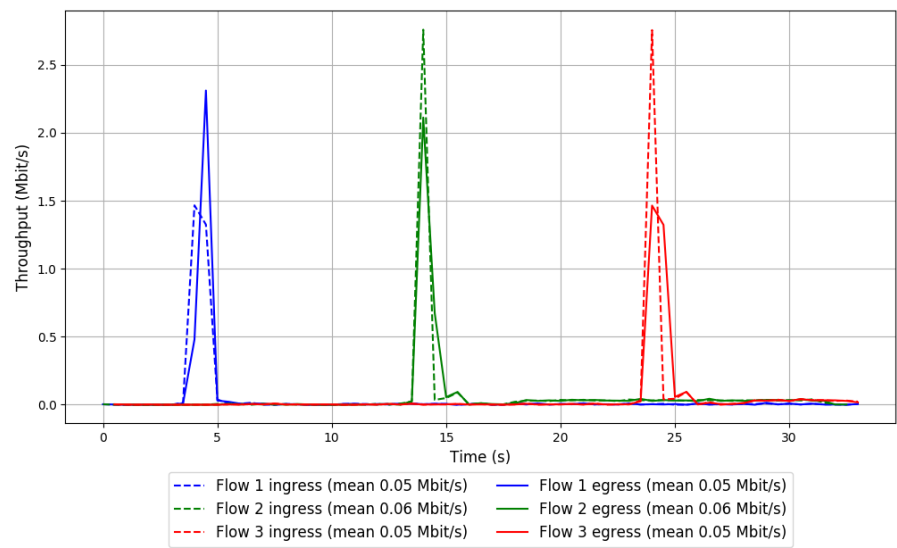


Run 5: Statistics of WebRTC media

Start at: 2018-04-03 18:53:01
End at: 2018-04-03 18:53:31
Local clock offset: -1.613 ms
Remote clock offset: 10.726 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 79.387 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.299 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 78.386 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 79.982 ms
Loss rate: 0.31%

Run 5: Report of WebRTC media — Data Link

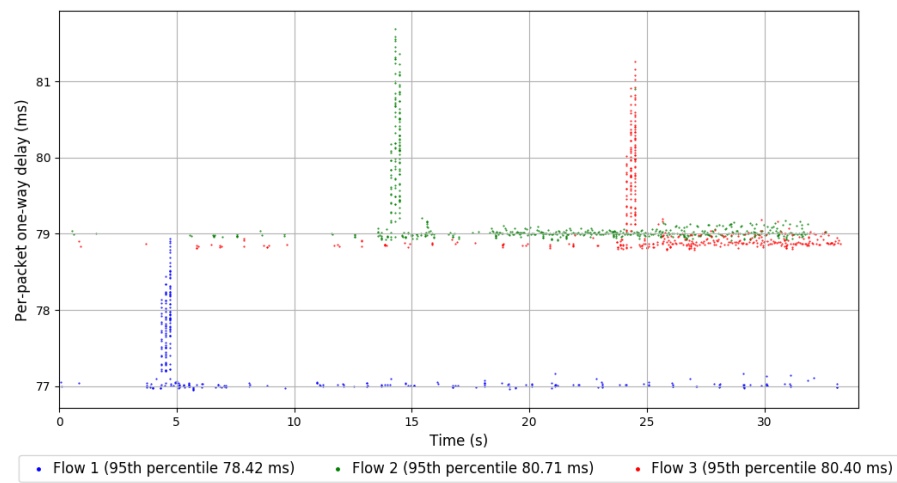
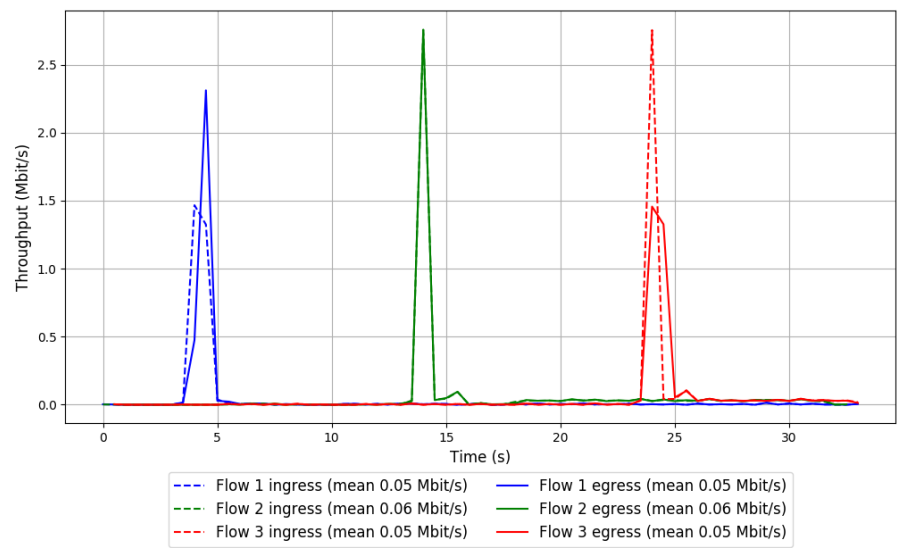


Run 6: Statistics of WebRTC media

Start at: 2018-04-03 19:18:25
End at: 2018-04-03 19:18:55
Local clock offset: -2.745 ms
Remote clock offset: 11.341 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 80.400 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.422 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 80.712 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.400 ms
Loss rate: 0.30%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-03 19:42:22

End at: 2018-04-03 19:42:52

Local clock offset: -3.044 ms

Remote clock offset: 5.603 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 85.343 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.182 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

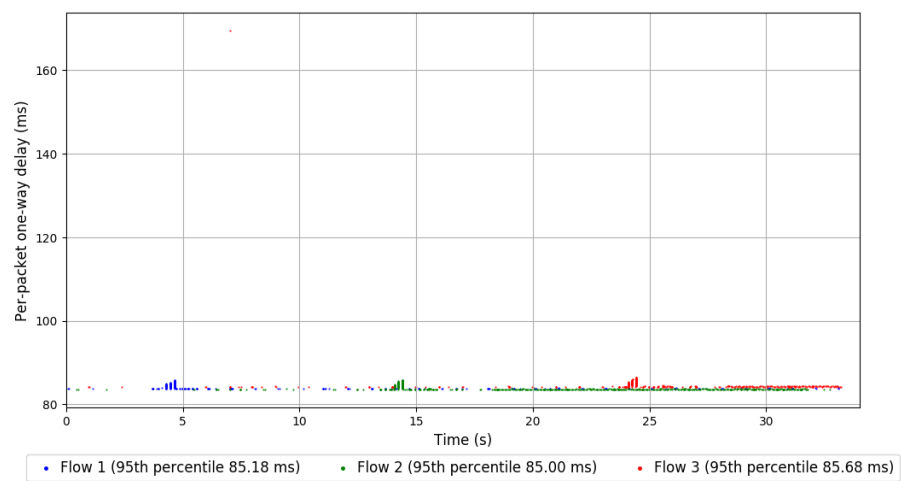
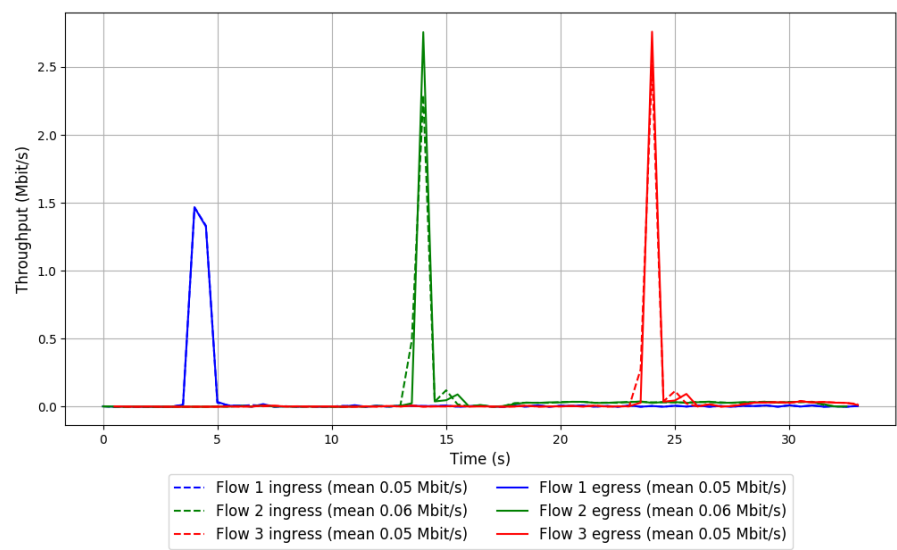
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.676 ms

Loss rate: 0.35%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-03 20:06:11

End at: 2018-04-03 20:06:41

Local clock offset: -3.279 ms

Remote clock offset: 6.061 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 86.239 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 84.848 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 85.490 ms

Loss rate: 0.00%

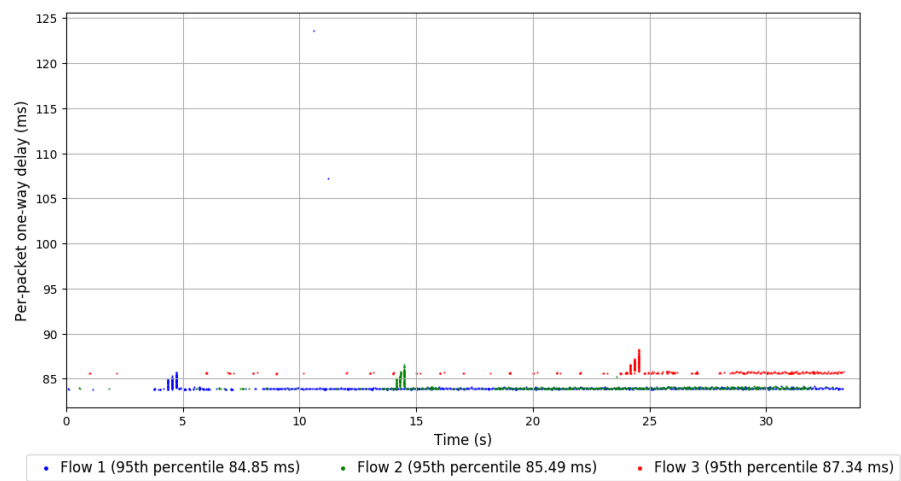
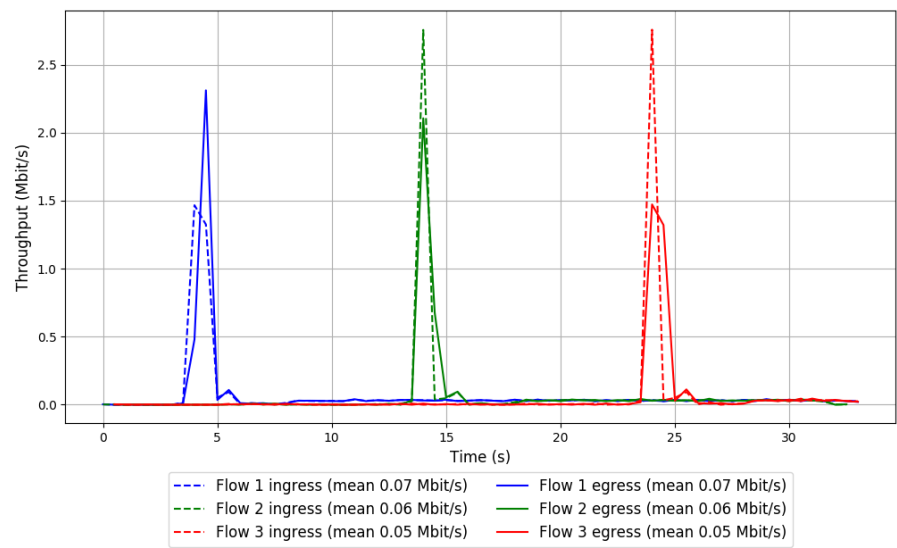
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.338 ms

Loss rate: 0.31%

Run 8: Report of WebRTC media — Data Link

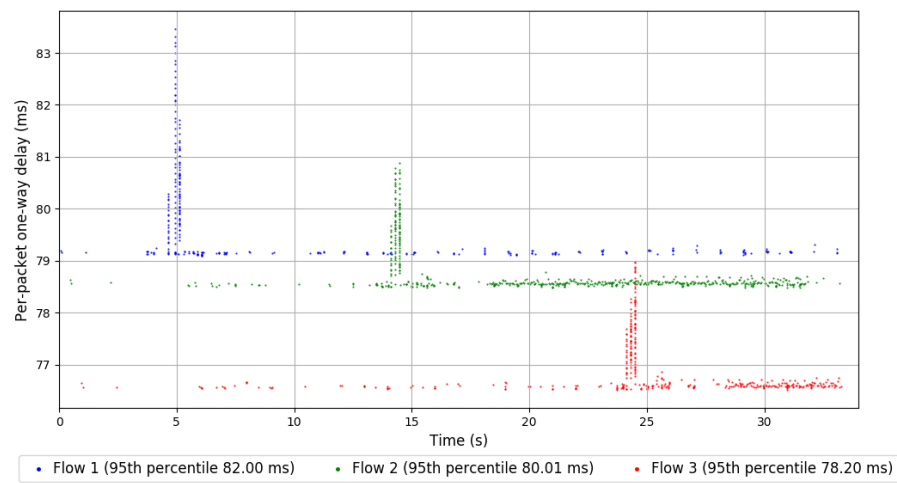
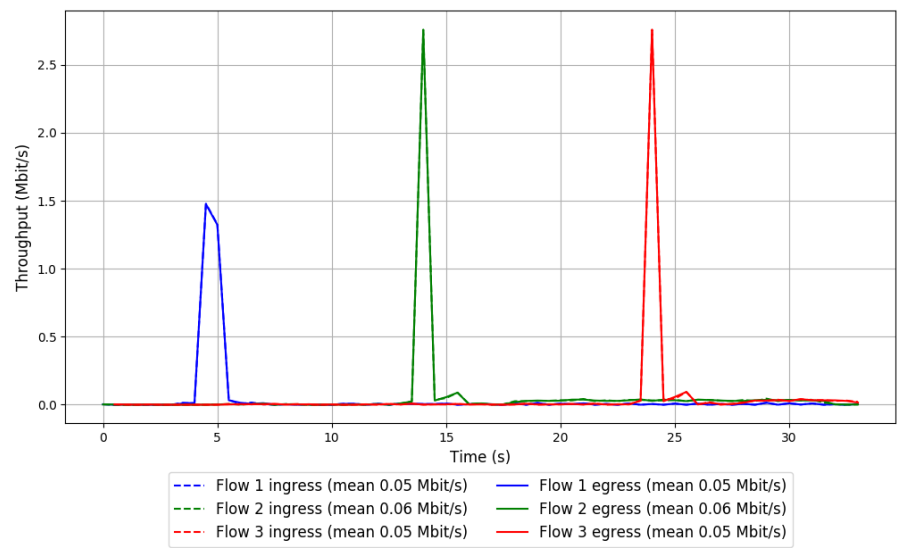


Run 9: Statistics of WebRTC media

Start at: 2018-04-03 20:30:01
End at: 2018-04-03 20:30:31
Local clock offset: -4.659 ms
Remote clock offset: 11.923 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 80.516 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.999 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 80.011 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.196 ms
Loss rate: 0.31%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-03 20:54:09

End at: 2018-04-03 20:54:39

Local clock offset: -6.906 ms

Remote clock offset: 6.476 ms

Below is generated by plot.py at 2018-04-04 01:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 85.806 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 84.336 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.347 ms

Loss rate: 0.00%

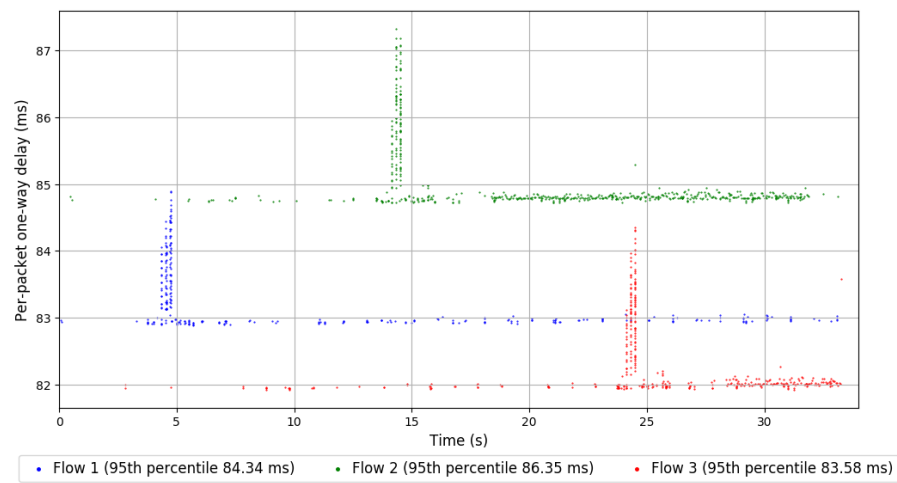
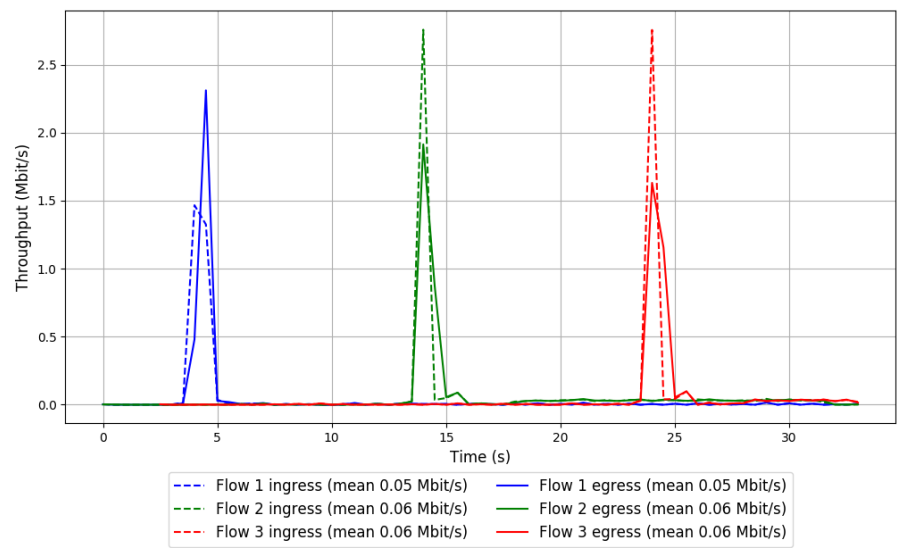
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 83.579 ms

Loss rate: 0.23%

Run 10: Report of WebRTC media — Data Link

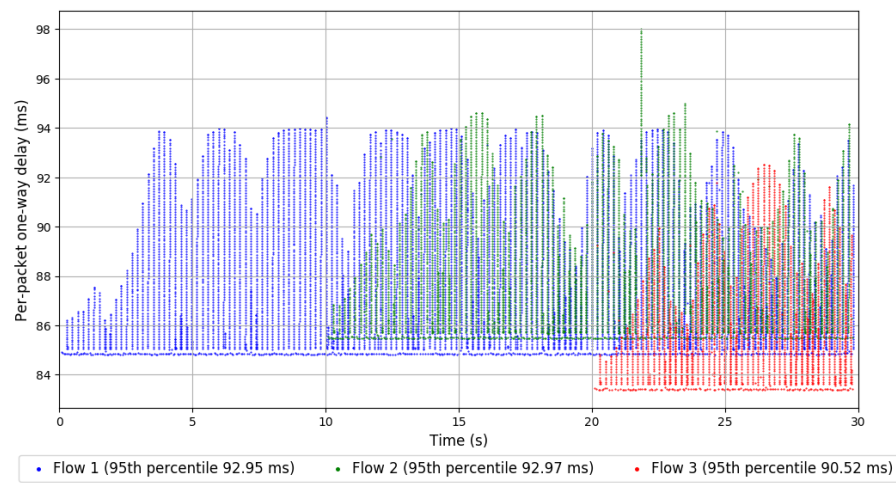
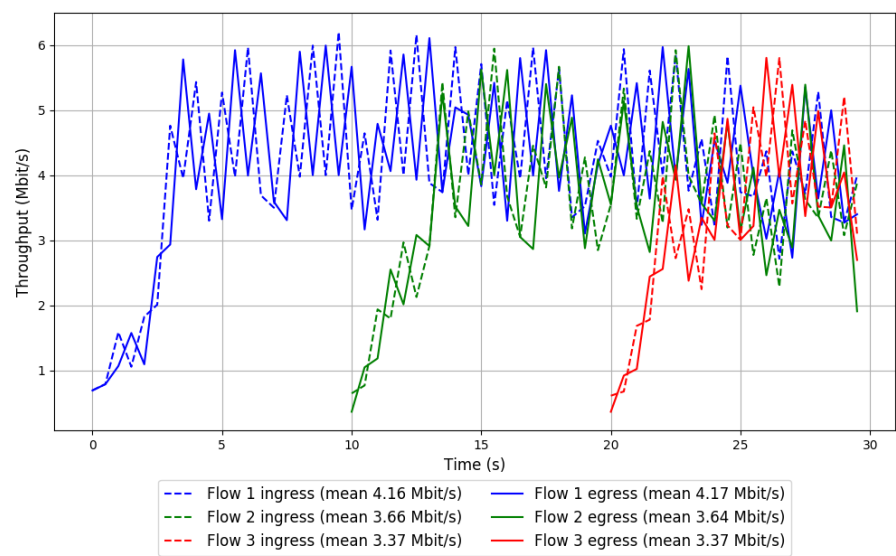


Run 1: Statistics of Sprout

Start at: 2018-04-03 17:11:03
End at: 2018-04-03 17:11:33
Local clock offset: -7.503 ms
Remote clock offset: 7.284 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 92.767 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 92.949 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 92.966 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 90.523 ms
Loss rate: 2.35%

Run 1: Report of Sprout — Data Link

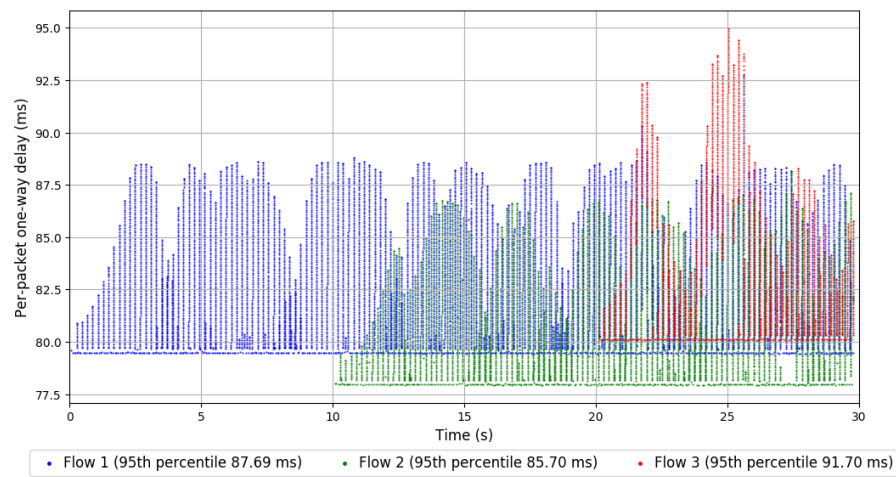
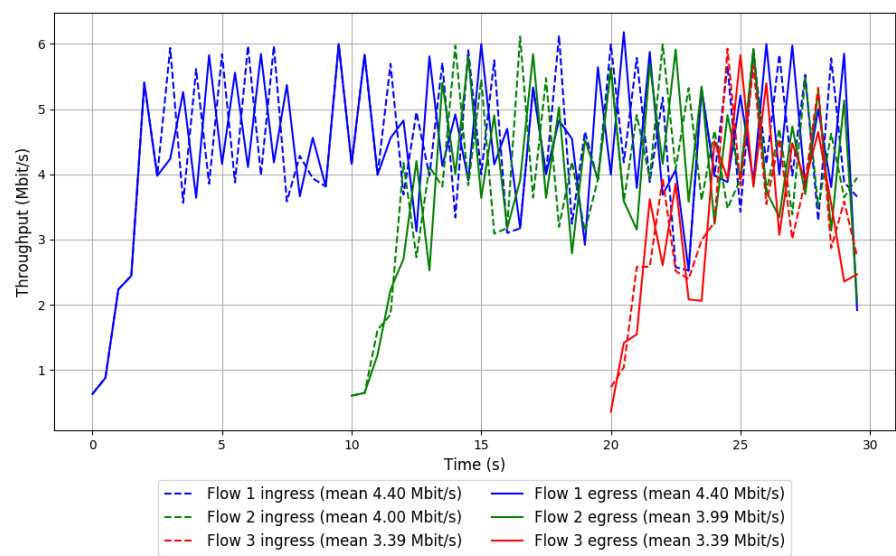


Run 2: Statistics of Sprout

Start at: 2018-04-03 17:35:01
End at: 2018-04-03 17:35:31
Local clock offset: -2.712 ms
Remote clock offset: 12.532 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 87.794 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 87.694 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 85.699 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 91.701 ms
Loss rate: 2.24%

Run 2: Report of Sprout — Data Link

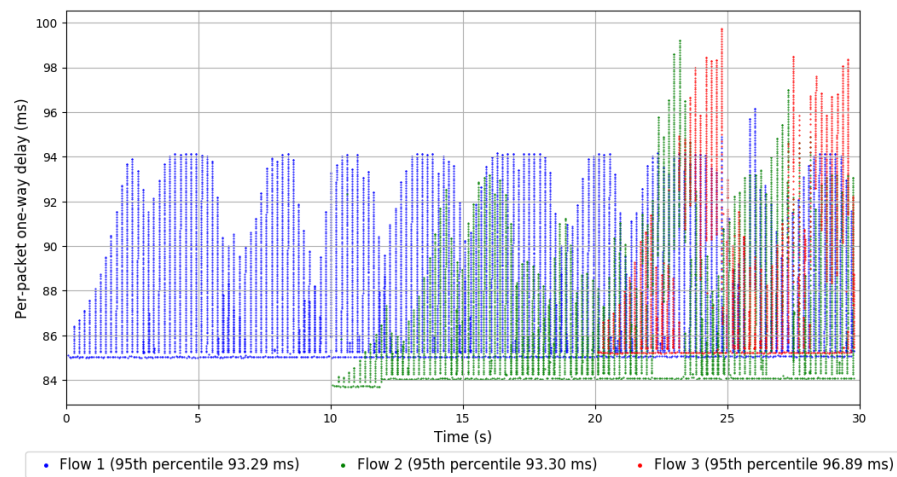
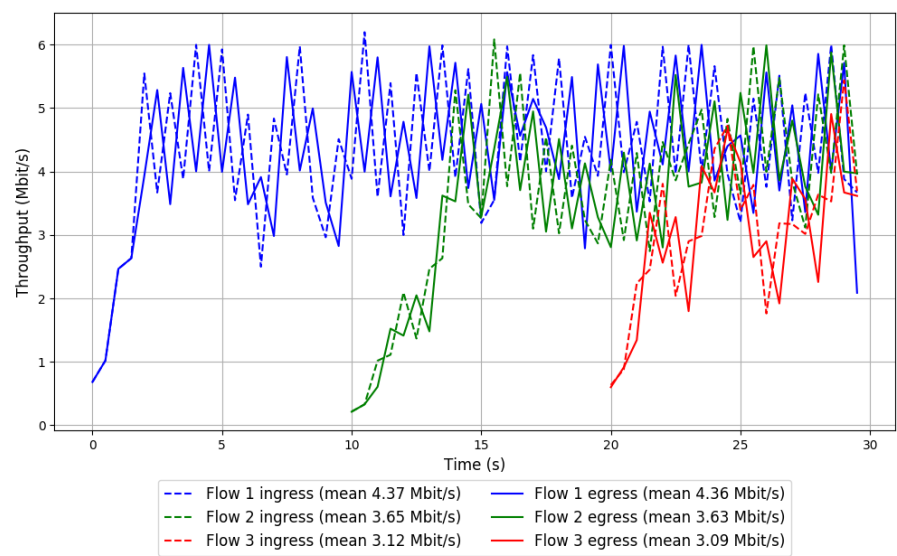


Run 3: Statistics of Sprout

Start at: 2018-04-03 17:58:51
End at: 2018-04-03 17:59:21
Local clock offset: -5.319 ms
Remote clock offset: 5.058 ms

```
# Below is generated by plot.py at 2018-04-04 01:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 93.902 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 93.291 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 93.299 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 96.889 ms
Loss rate: 3.00%
```


Run 3: Report of Sprout — Data Link

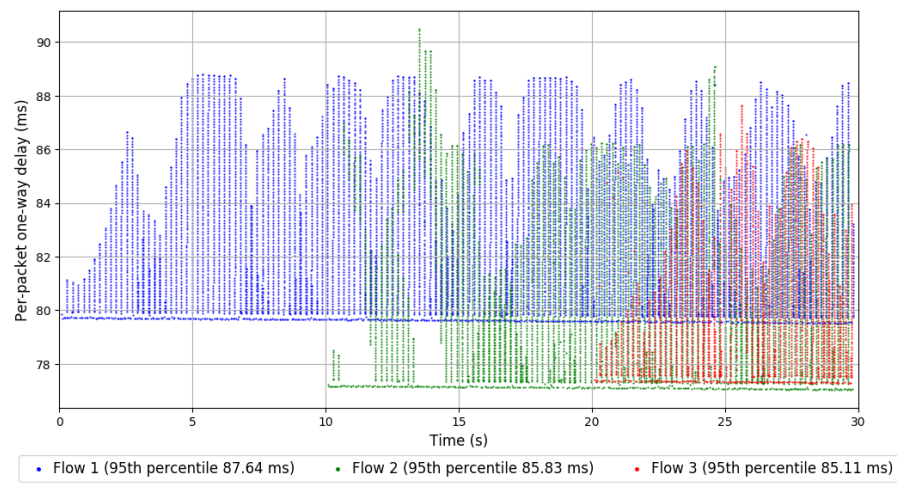
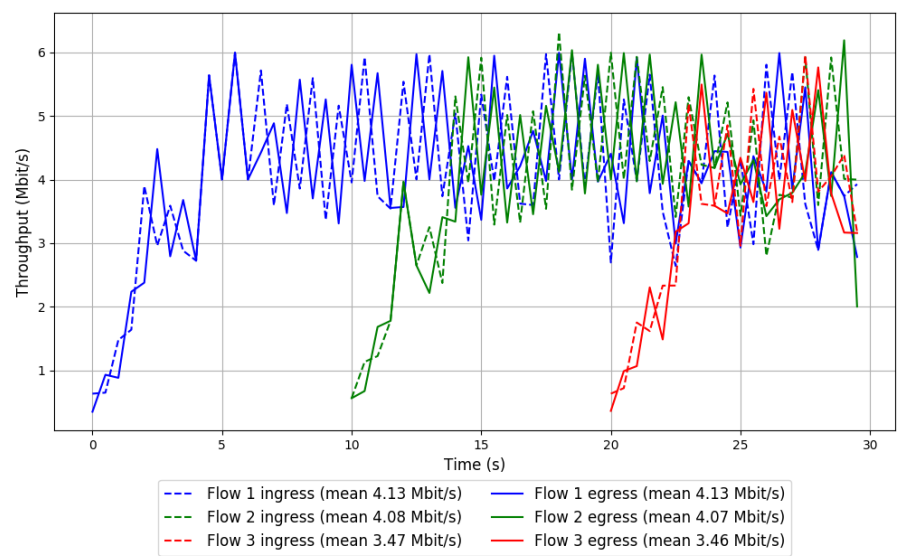


Run 4: Statistics of Sprout

Start at: 2018-04-03 18:22:38
End at: 2018-04-03 18:23:08
Local clock offset: -6.107 ms
Remote clock offset: 10.219 ms

```
# Below is generated by plot.py at 2018-04-04 01:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 87.106 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 87.638 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 85.833 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 85.113 ms
Loss rate: 2.23%
```

Run 4: Report of Sprout — Data Link

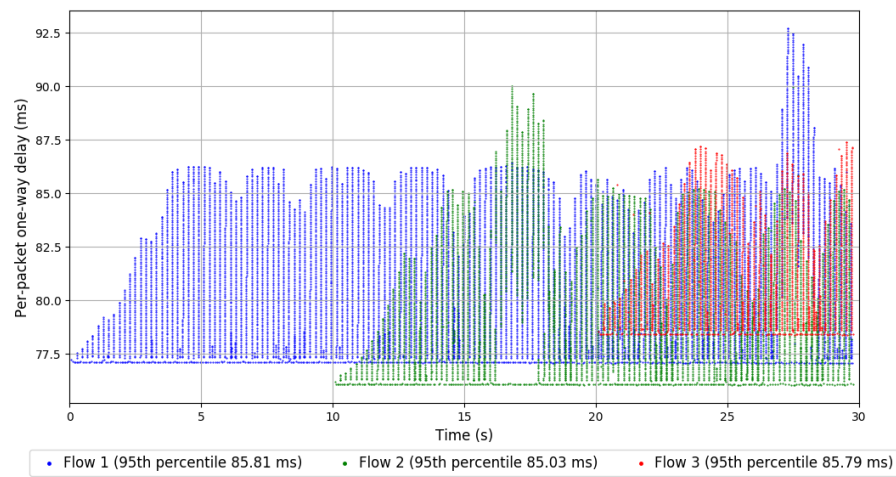
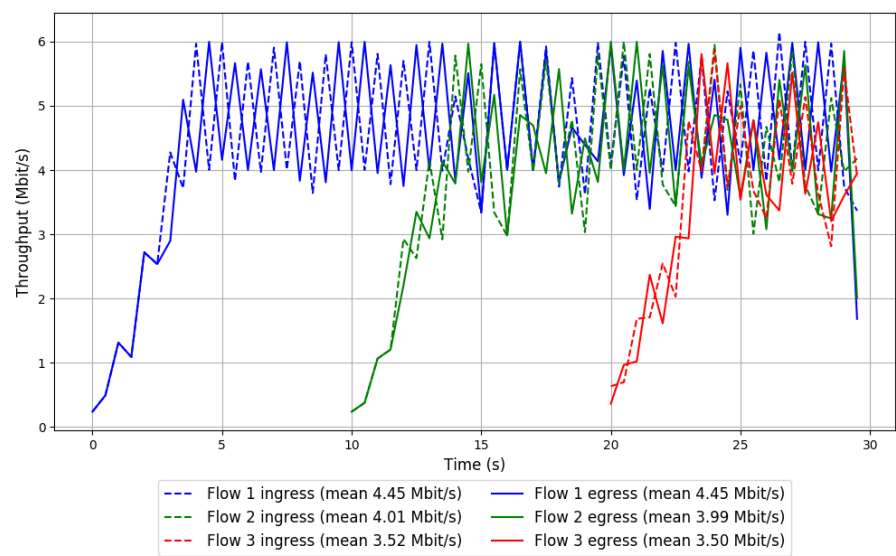


Run 5: Statistics of Sprout

Start at: 2018-04-03 18:46:25
End at: 2018-04-03 18:46:55
Local clock offset: -2.049 ms
Remote clock offset: 10.656 ms

```
# Below is generated by plot.py at 2018-04-04 01:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 85.694 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 85.811 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 85.029 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 85.791 ms
Loss rate: 2.77%
```

Run 5: Report of Sprout — Data Link

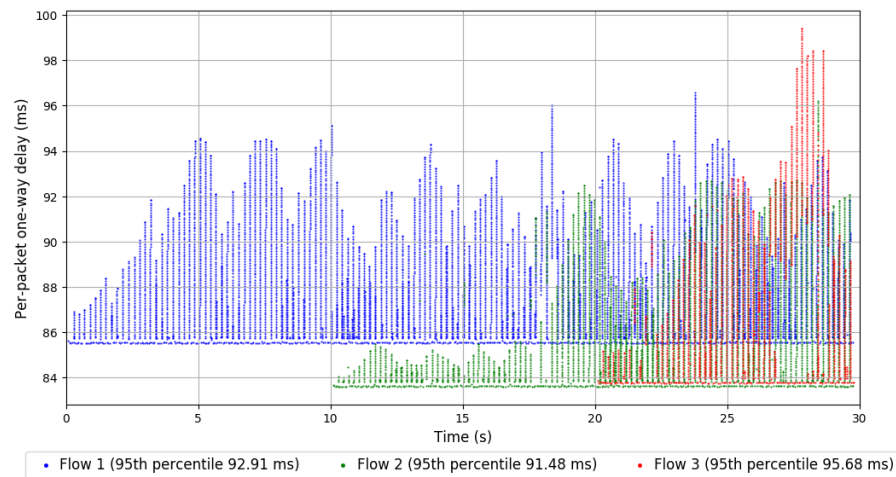
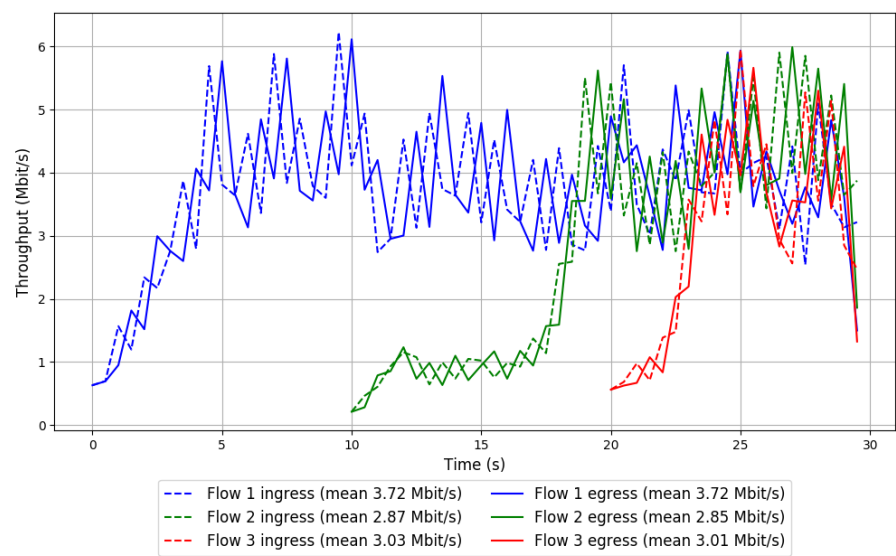


Run 6: Statistics of Sprout

Start at: 2018-04-03 19:11:51
End at: 2018-04-03 19:12:21
Local clock offset: -2.734 ms
Remote clock offset: 4.873 ms

```
# Below is generated by plot.py at 2018-04-04 01:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 92.805 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 92.906 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 91.485 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 95.676 ms
Loss rate: 2.15%
```

Run 6: Report of Sprout — Data Link

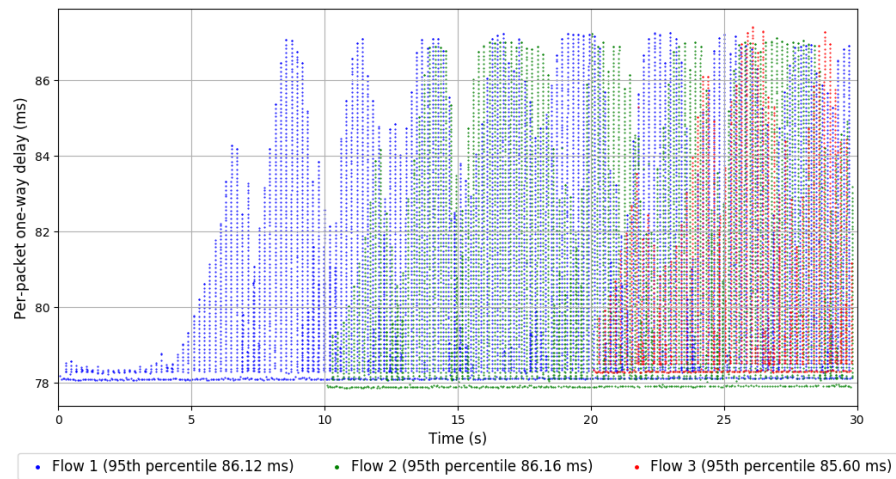
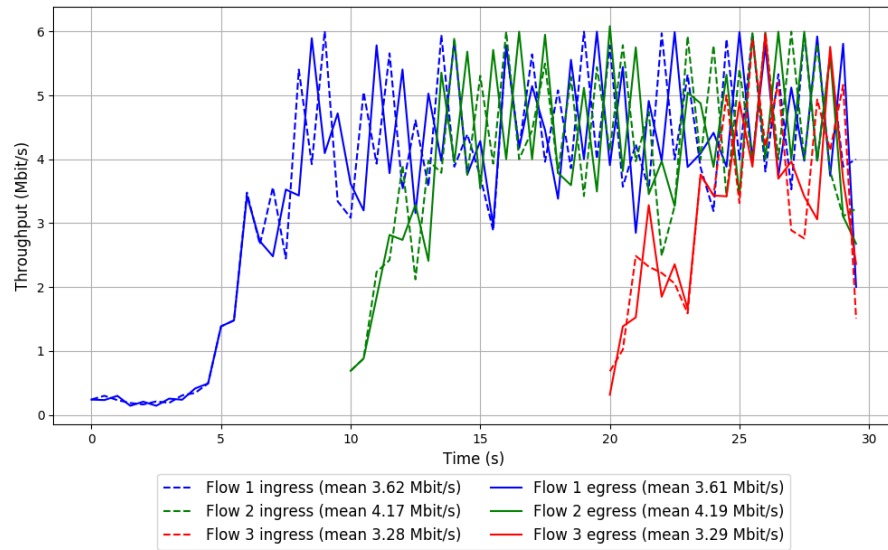


Run 7: Statistics of Sprout

Start at: 2018-04-03 19:35:35
End at: 2018-04-03 19:36:05
Local clock offset: -2.826 ms
Remote clock offset: 11.632 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 86.098 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 86.117 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 86.155 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 85.596 ms
Loss rate: 1.37%

Run 7: Report of Sprout — Data Link

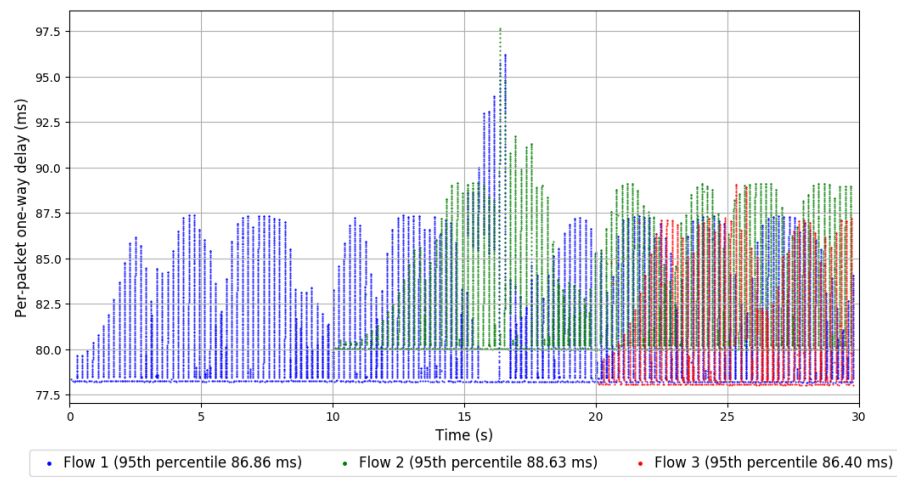
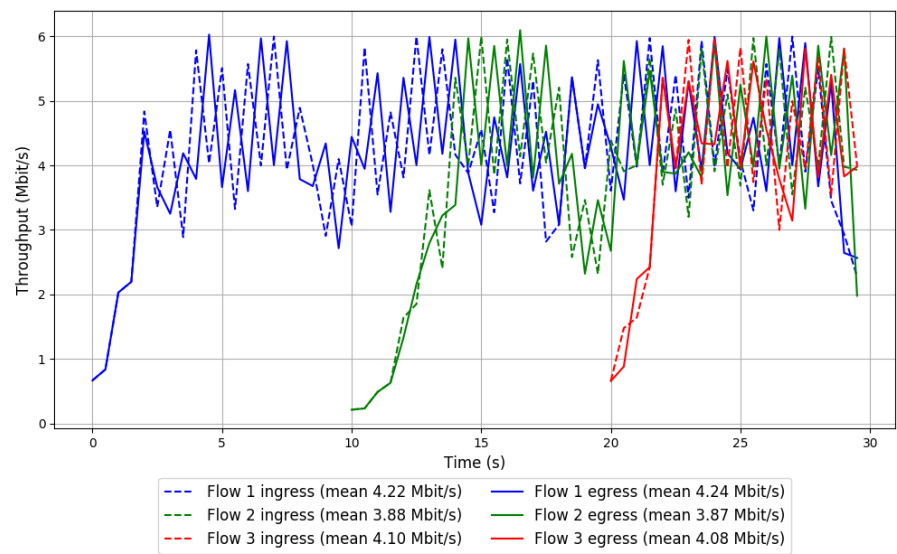


Run 8: Statistics of Sprout

Start at: 2018-04-03 19:59:32
End at: 2018-04-03 20:00:02
Local clock offset: -2.897 ms
Remote clock offset: 12.709 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 87.687 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 86.862 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 88.629 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 86.400 ms
Loss rate: 2.46%

Run 8: Report of Sprout — Data Link

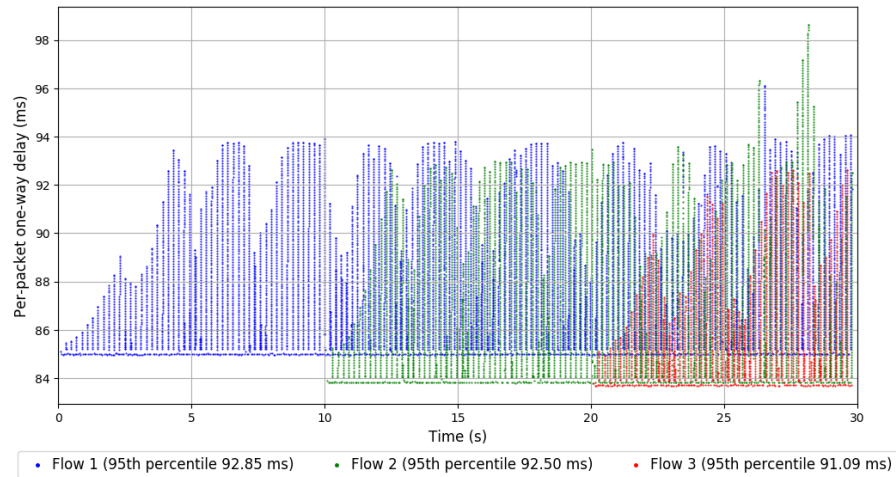
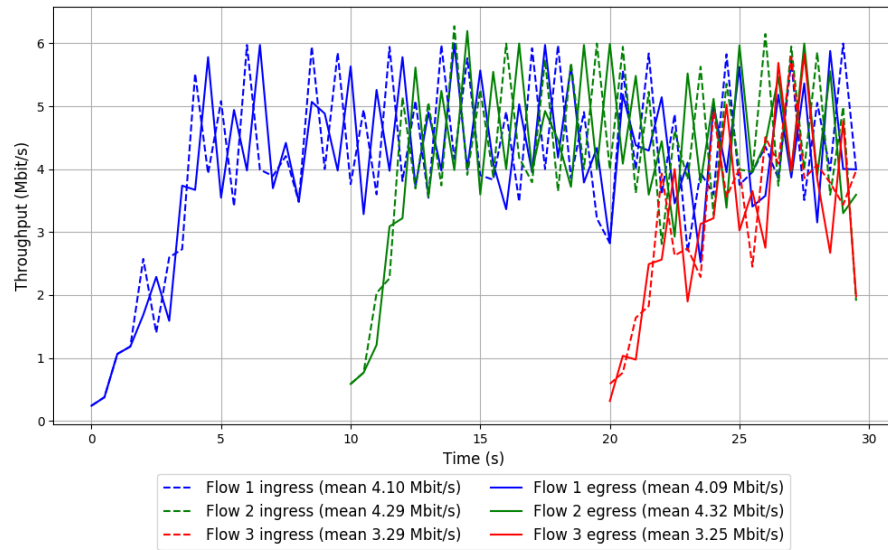


Run 9: Statistics of Sprout

Start at: 2018-04-03 20:23:23
End at: 2018-04-03 20:23:53
Local clock offset: -4.505 ms
Remote clock offset: 5.382 ms

```
# Below is generated by plot.py at 2018-04-04 01:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 92.590 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 92.847 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 92.505 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 91.095 ms
Loss rate: 3.08%
```

Run 9: Report of Sprout — Data Link

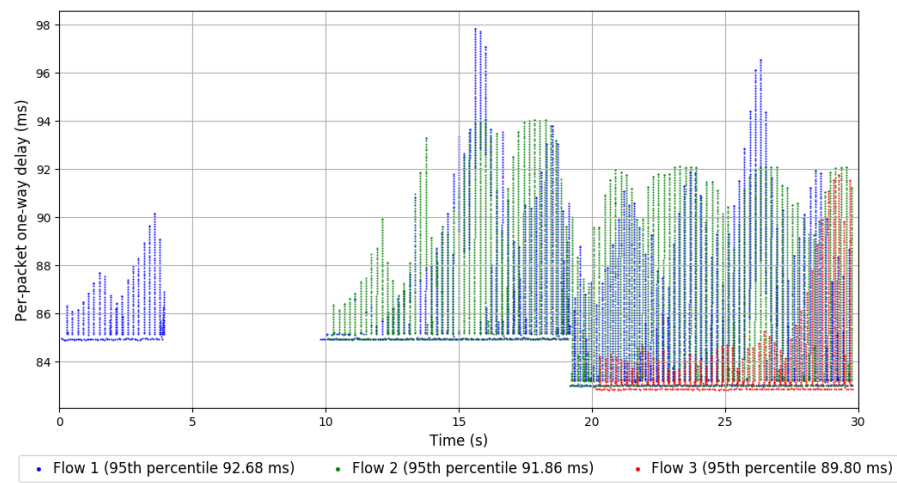
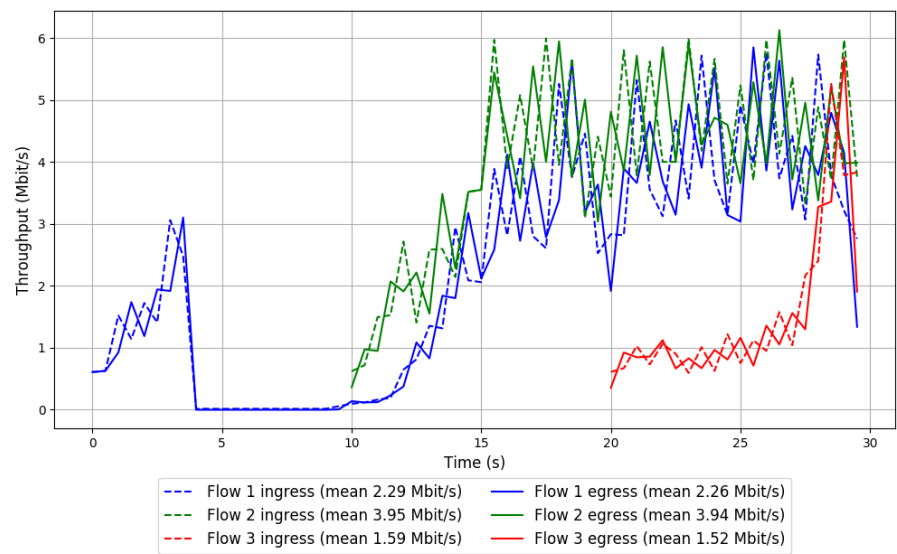


Run 10: Statistics of Sprout

Start at: 2018-04-03 20:47:26
End at: 2018-04-03 20:47:56
Local clock offset: -6.335 ms
Remote clock offset: 6.446 ms

Below is generated by plot.py at 2018-04-04 01:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 91.947 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 92.677 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 91.856 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 89.801 ms
Loss rate: 6.15%

Run 10: Report of Sprout — Data Link

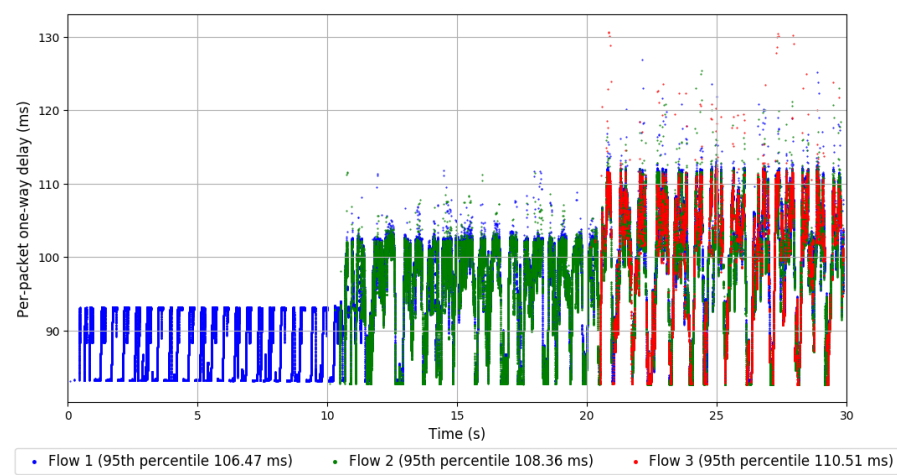
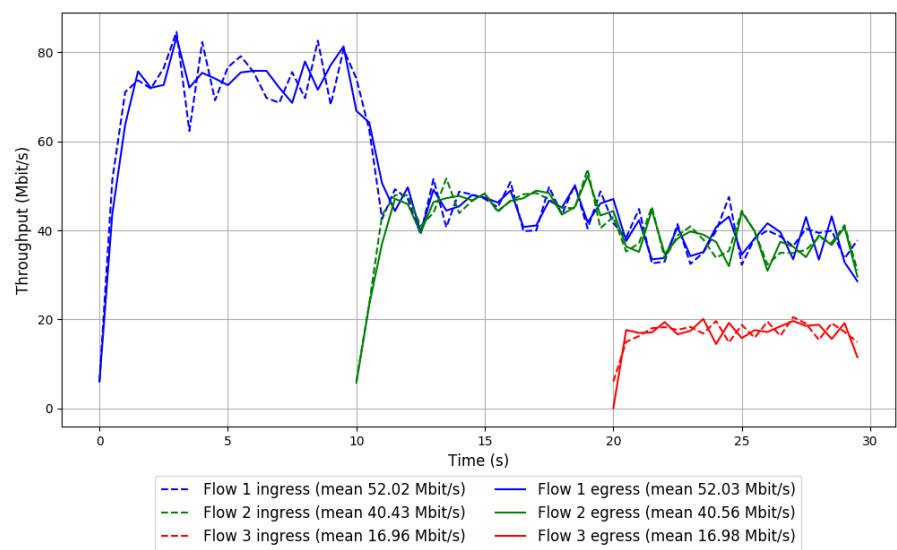


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-03 17:20:21
End at: 2018-04-03 17:20:51
Local clock offset: -4.72 ms
Remote clock offset: 7.099 ms

# Below is generated by plot.py at 2018-04-04 01:12:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 108.099 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 106.466 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 108.361 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 16.98 Mbit/s
95th percentile per-packet one-way delay: 110.510 ms
Loss rate: 1.84%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-03 17:44:12

End at: 2018-04-03 17:44:42

Local clock offset: -2.248 ms

Remote clock offset: 7.716 ms

Below is generated by plot.py at 2018-04-04 01:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 108.261 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 104.992 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 109.399 ms

Loss rate: 0.92%

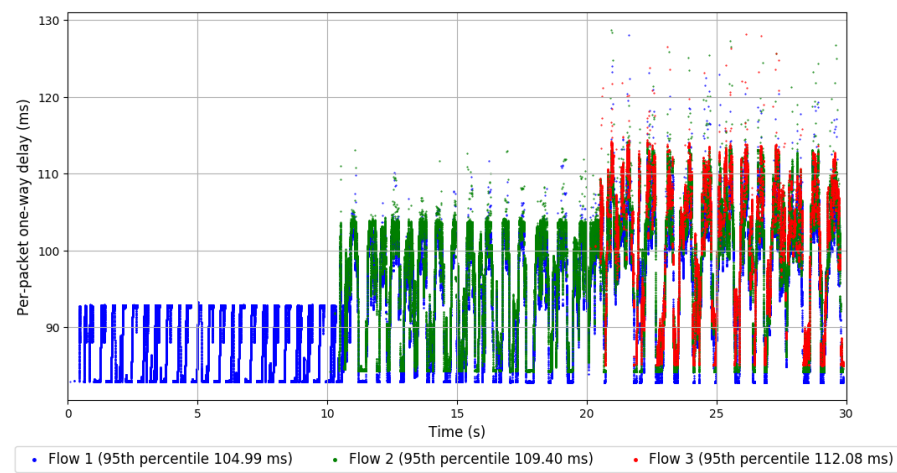
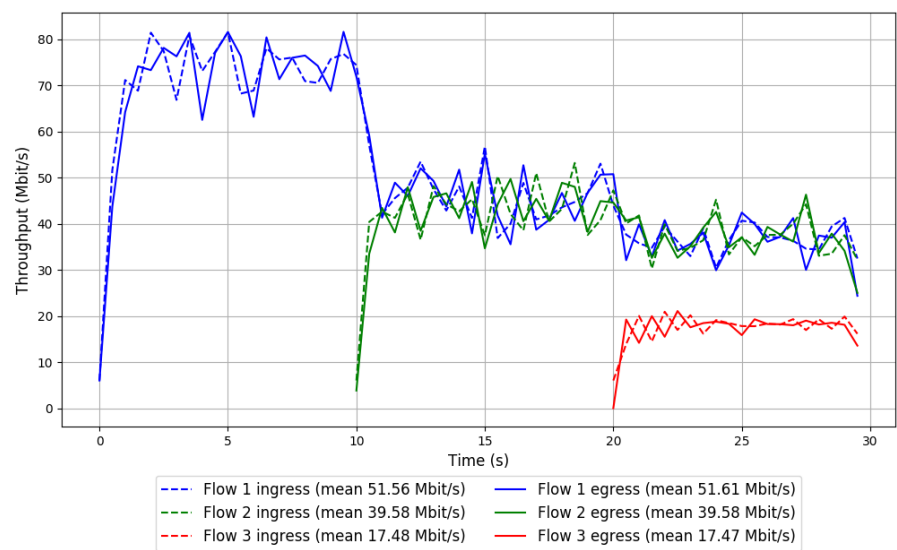
-- Flow 3:

Average throughput: 17.47 Mbit/s

95th percentile per-packet one-way delay: 112.079 ms

Loss rate: 2.05%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 18:08:01

End at: 2018-04-03 18:08:31

Local clock offset: -6.11 ms

Remote clock offset: 4.724 ms

Below is generated by plot.py at 2018-04-04 01:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.80 Mbit/s

95th percentile per-packet one-way delay: 110.121 ms

Loss rate: 5.12%

-- Flow 1:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 107.319 ms

Loss rate: 5.43%

-- Flow 2:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 110.478 ms

Loss rate: 4.86%

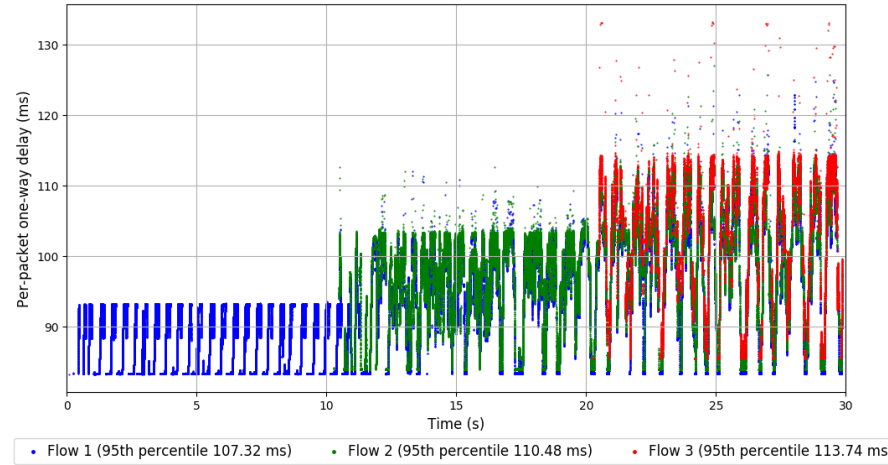
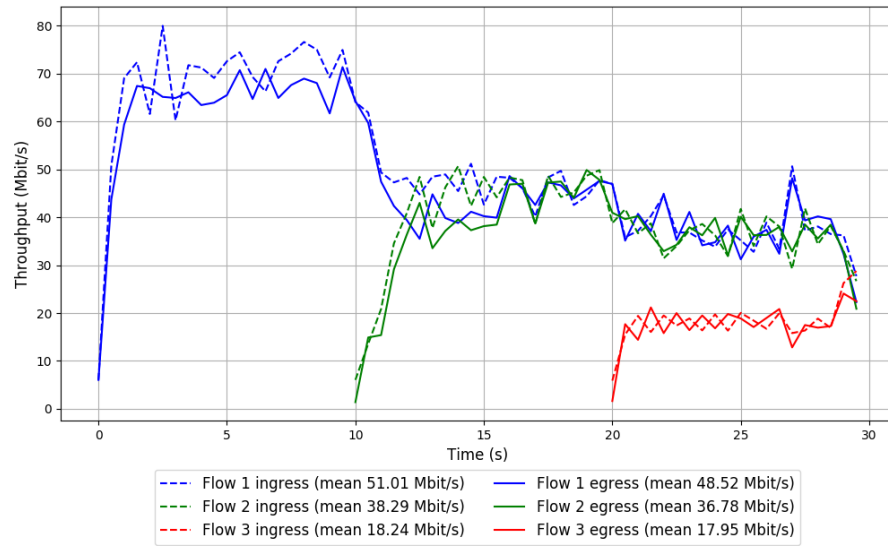
-- Flow 3:

Average throughput: 17.95 Mbit/s

95th percentile per-packet one-way delay: 113.743 ms

Loss rate: 3.58%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-03 18:31:48

End at: 2018-04-03 18:32:18

Local clock offset: -3.65 ms

Remote clock offset: 4.118 ms

Below is generated by plot.py at 2018-04-04 01:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.49 Mbit/s

95th percentile per-packet one-way delay: 111.558 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 51.23 Mbit/s

95th percentile per-packet one-way delay: 109.433 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 112.088 ms

Loss rate: 0.75%

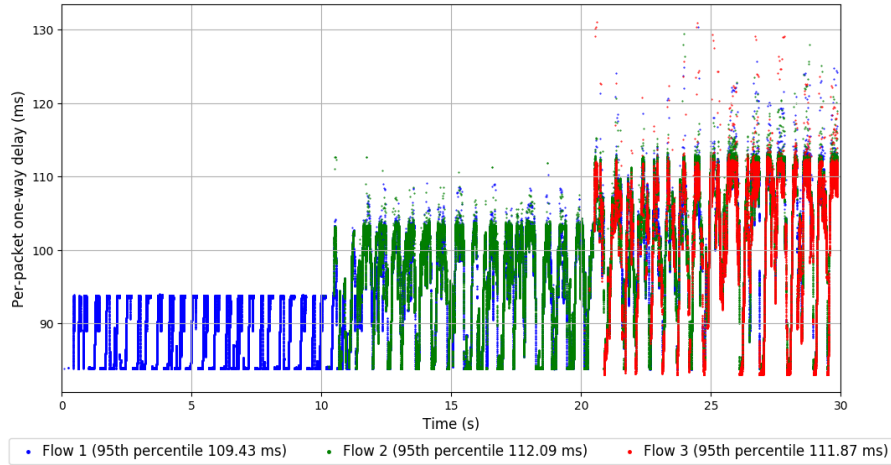
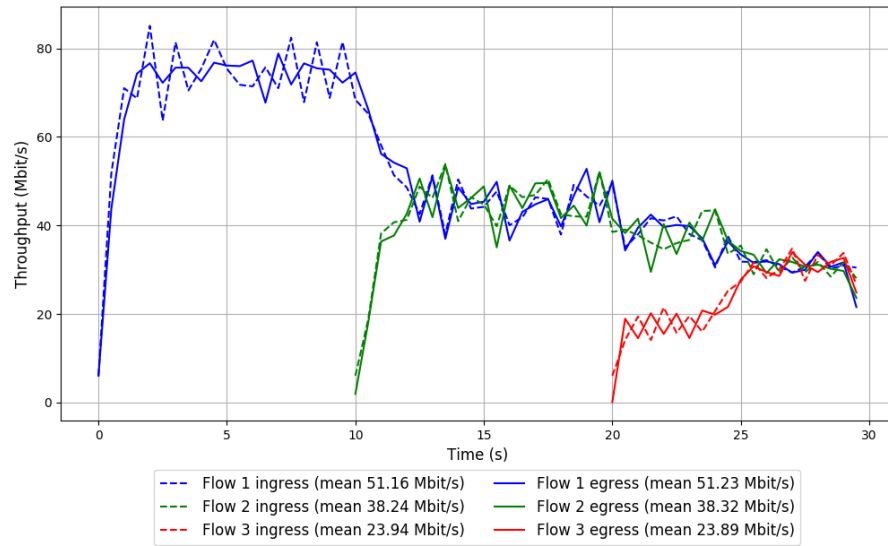
-- Flow 3:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 111.867 ms

Loss rate: 2.12%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-03 18:55:34

End at: 2018-04-03 18:56:04

Local clock offset: -1.522 ms

Remote clock offset: 8.912 ms

Below is generated by plot.py at 2018-04-04 01:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 104.952 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 103.428 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 104.765 ms

Loss rate: 0.96%

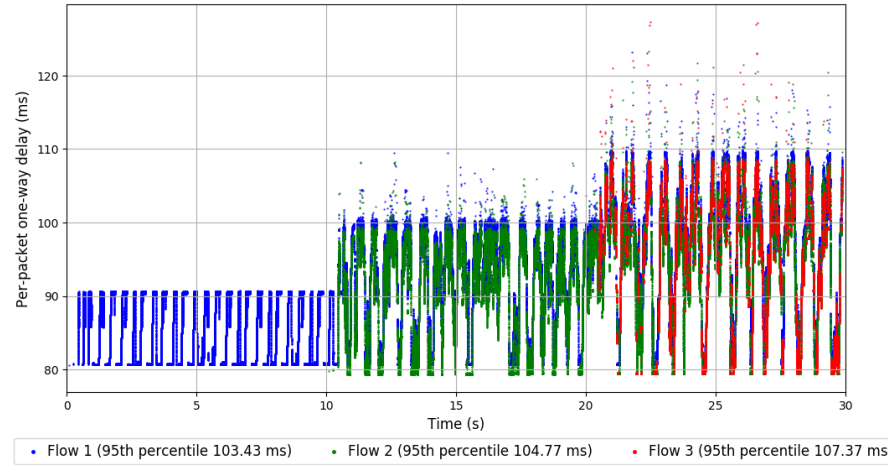
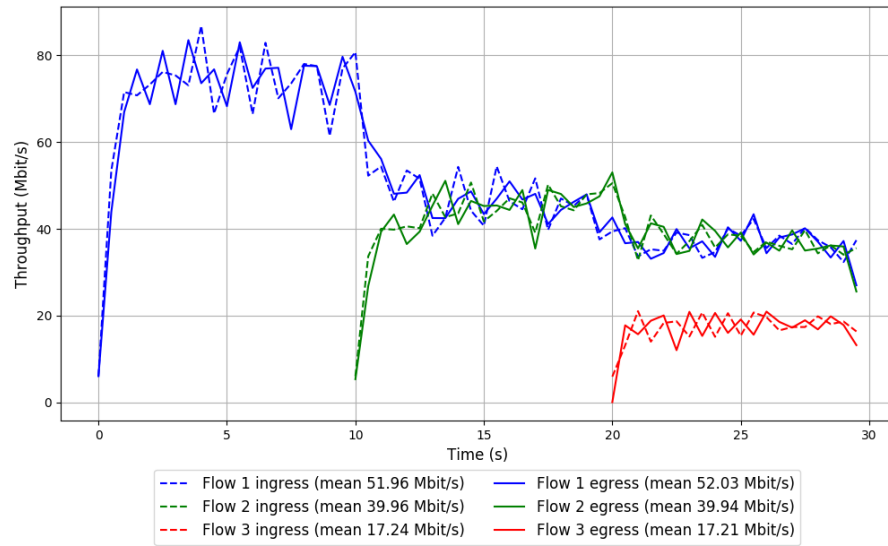
-- Flow 3:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 107.371 ms

Loss rate: 2.14%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-03 19:20:58

End at: 2018-04-03 19:21:28

Local clock offset: -2.719 ms

Remote clock offset: 4.862 ms

Below is generated by plot.py at 2018-04-04 01:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 113.603 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 112.720 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 37.08 Mbit/s

95th percentile per-packet one-way delay: 113.332 ms

Loss rate: 0.71%

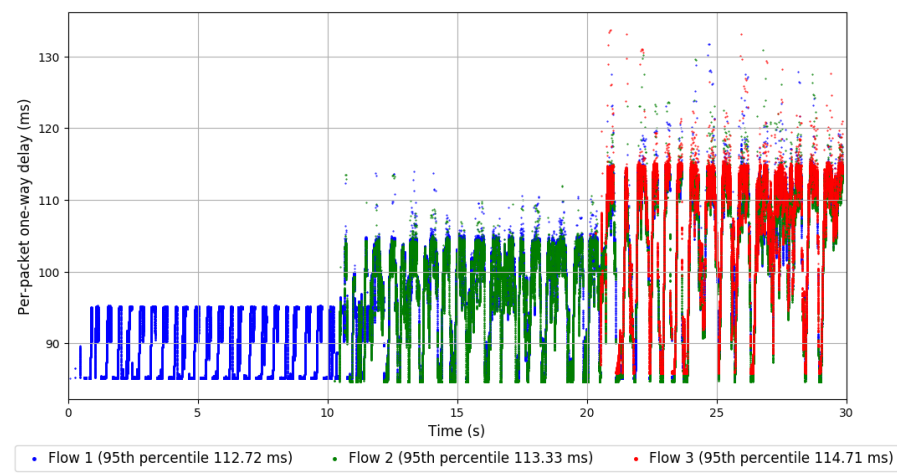
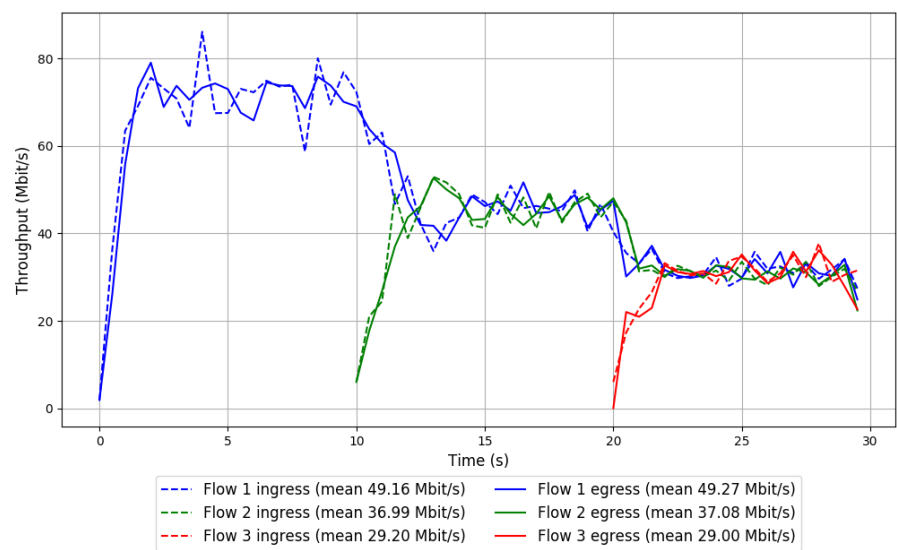
-- Flow 3:

Average throughput: 29.00 Mbit/s

95th percentile per-packet one-way delay: 114.714 ms

Loss rate: 2.70%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-03 19:44:55

End at: 2018-04-03 19:45:25

Local clock offset: -2.961 ms

Remote clock offset: 6.768 ms

Below is generated by plot.py at 2018-04-04 01:13:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 110.023 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 107.453 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 39.54 Mbit/s

95th percentile per-packet one-way delay: 109.632 ms

Loss rate: 0.81%

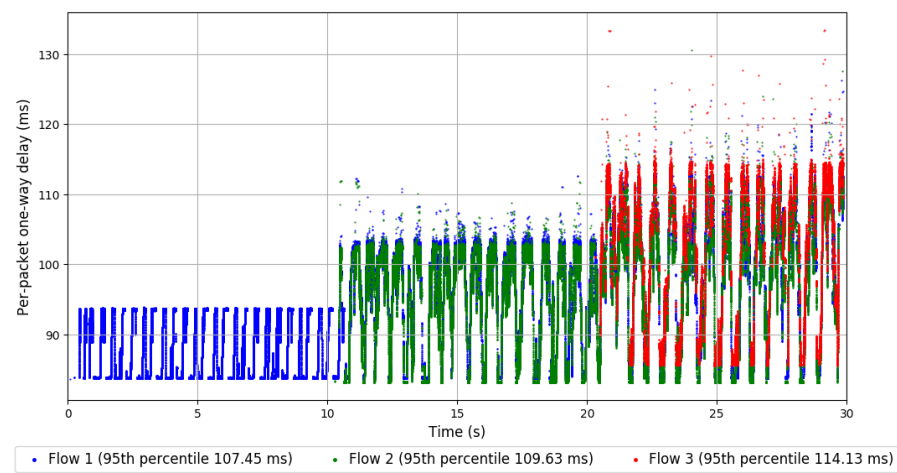
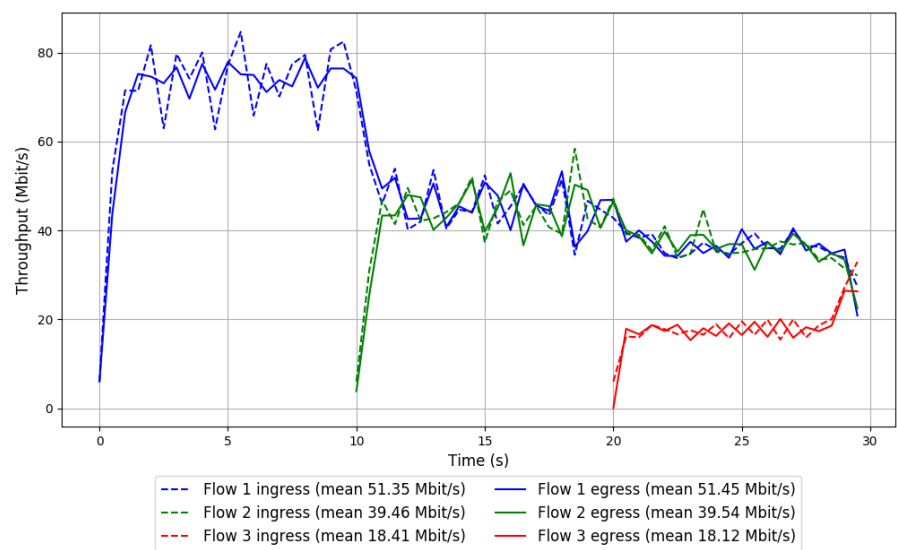
-- Flow 3:

Average throughput: 18.12 Mbit/s

95th percentile per-packet one-way delay: 114.127 ms

Loss rate: 3.64%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-03 20:08:44

End at: 2018-04-03 20:09:14

Local clock offset: -3.629 ms

Remote clock offset: 5.833 ms

Below is generated by plot.py at 2018-04-04 01:13:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 108.593 ms

Loss rate: 14.02%

-- Flow 1:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 107.512 ms

Loss rate: 11.96%

-- Flow 2:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 108.026 ms

Loss rate: 18.01%

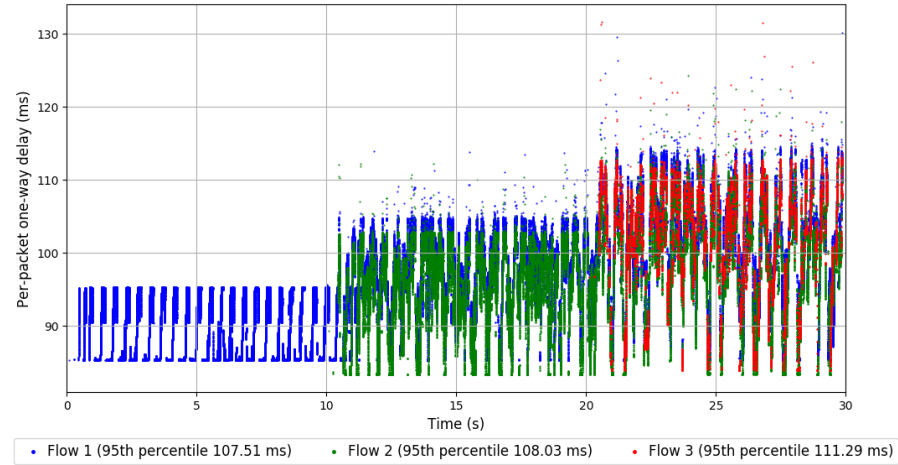
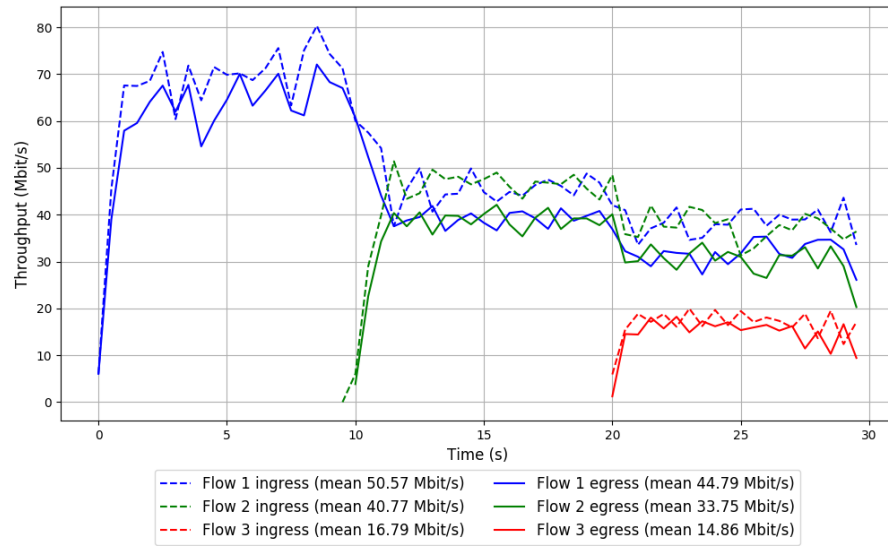
-- Flow 3:

Average throughput: 14.86 Mbit/s

95th percentile per-packet one-way delay: 111.286 ms

Loss rate: 13.21%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-03 20:32:42

End at: 2018-04-03 20:33:12

Local clock offset: -4.722 ms

Remote clock offset: 10.92 ms

Below is generated by plot.py at 2018-04-04 01:14:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 102.122 ms

Loss rate: 14.53%

-- Flow 1:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 99.770 ms

Loss rate: 12.78%

-- Flow 2:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 102.363 ms

Loss rate: 17.45%

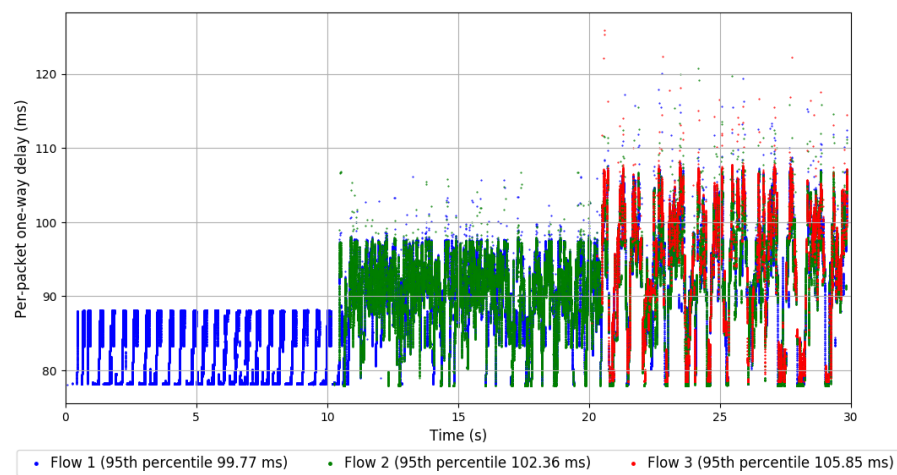
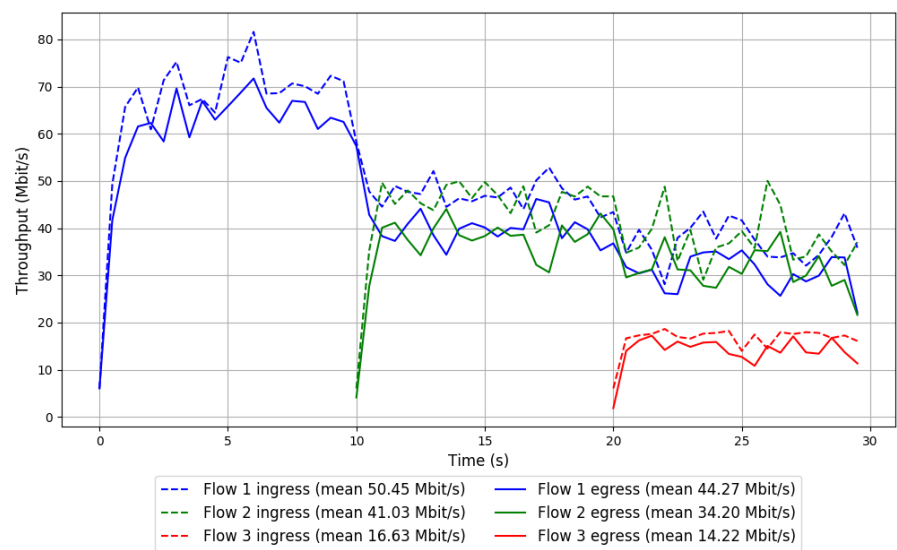
-- Flow 3:

Average throughput: 14.22 Mbit/s

95th percentile per-packet one-way delay: 105.853 ms

Loss rate: 16.11%

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

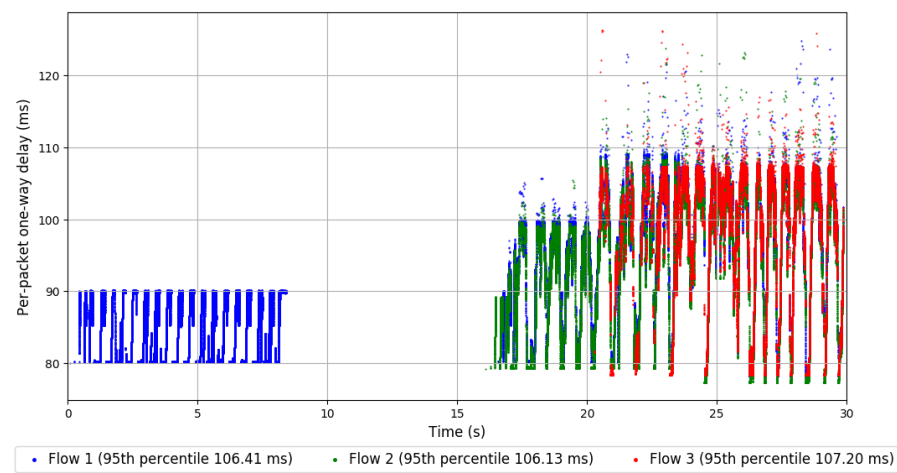
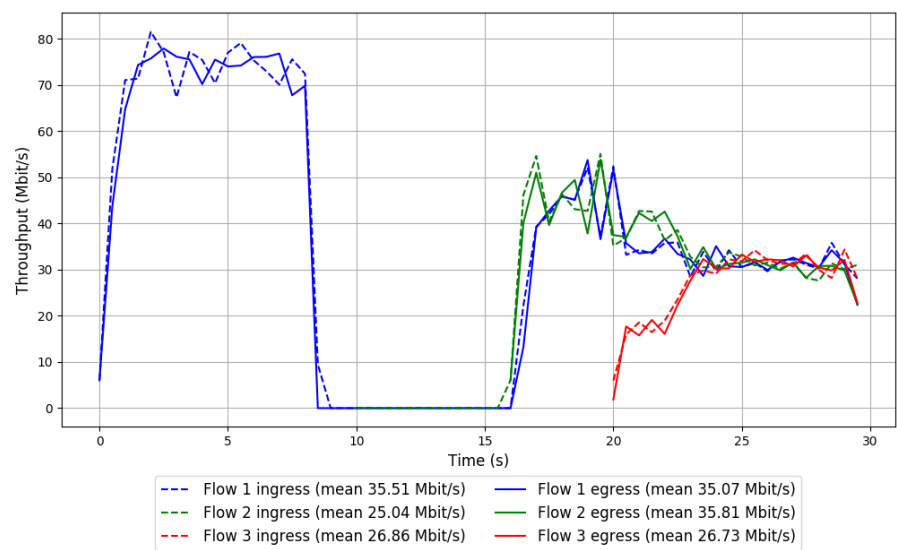


Run 10: Statistics of TaoVA-100x

Start at: 2018-04-03 20:56:42
End at: 2018-04-03 20:57:12
Local clock offset: -7.117 ms
Remote clock offset: 11.184 ms

Below is generated by plot.py at 2018-04-04 01:14:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 106.764 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 106.407 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 106.127 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 26.73 Mbit/s
95th percentile per-packet one-way delay: 107.199 ms
Loss rate: 2.32%

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

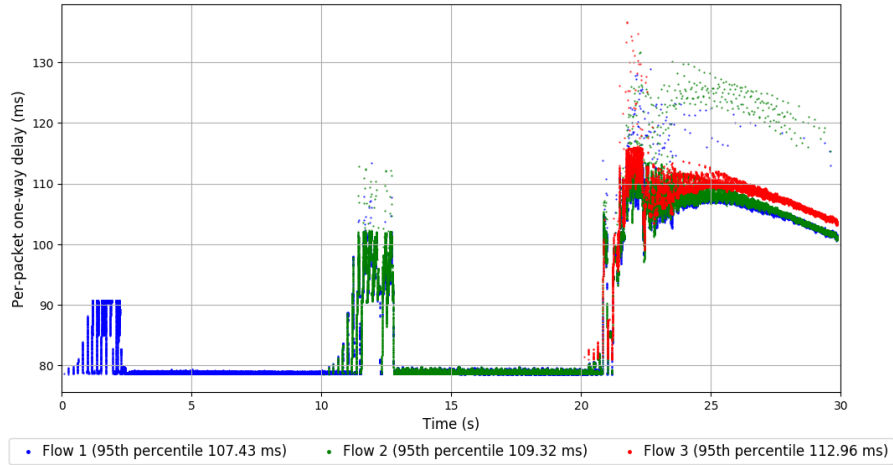
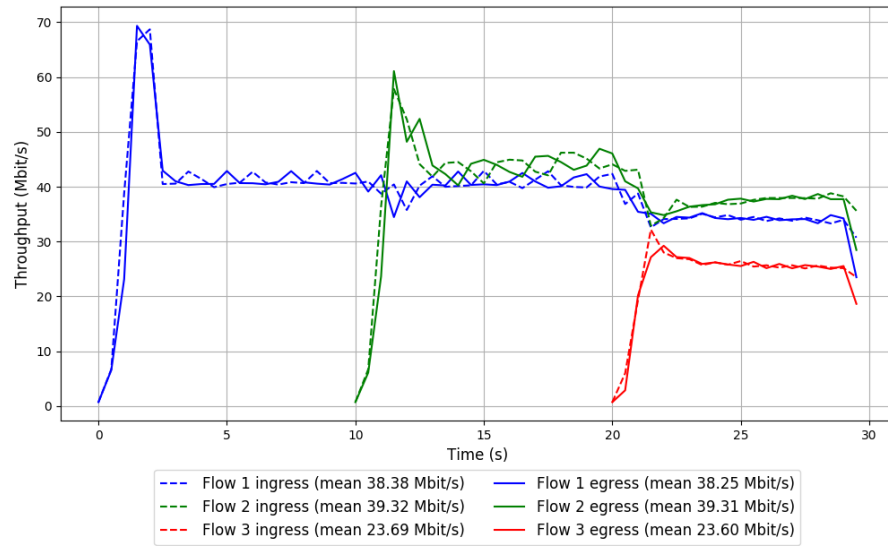


Run 1: Statistics of TCP Vegas

Start at: 2018-04-03 17:15:10
End at: 2018-04-03 17:15:40
Local clock offset: -6.551 ms
Remote clock offset: 11.485 ms

Below is generated by plot.py at 2018-04-04 01:14:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 109.658 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 107.433 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 109.323 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 112.957 ms
Loss rate: 2.17%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 17:39:01

End at: 2018-04-03 17:39:31

Local clock offset: -2.481 ms

Remote clock offset: 6.794 ms

Below is generated by plot.py at 2018-04-04 01:14:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.25 Mbit/s

95th percentile per-packet one-way delay: 120.740 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 39.32 Mbit/s

95th percentile per-packet one-way delay: 120.818 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 120.619 ms

Loss rate: 0.91%

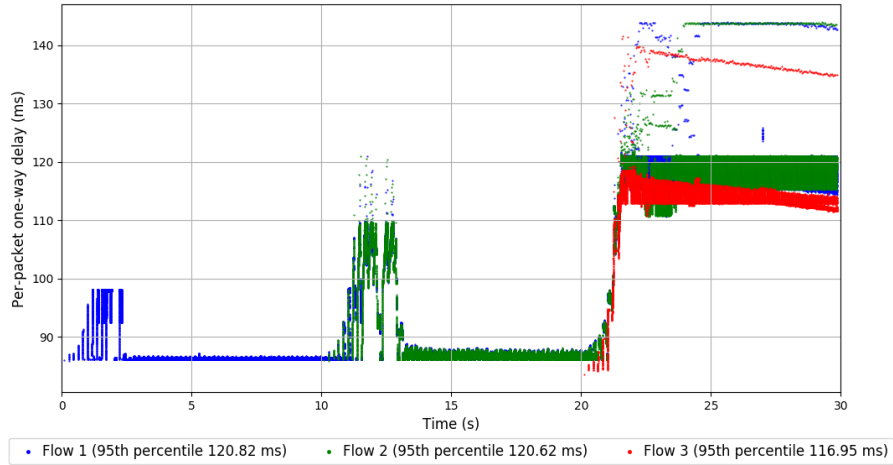
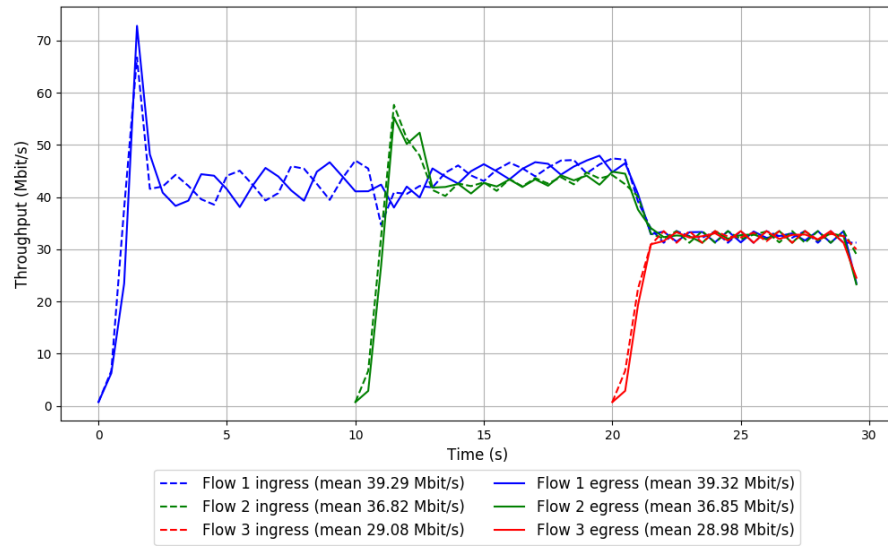
-- Flow 3:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 116.953 ms

Loss rate: 2.32%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 18:02:51

End at: 2018-04-03 18:03:21

Local clock offset: -5.688 ms

Remote clock offset: 5.795 ms

Below is generated by plot.py at 2018-04-04 01:14:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 105.808 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 37.40 Mbit/s

95th percentile per-packet one-way delay: 100.863 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 106.378 ms

Loss rate: 0.74%

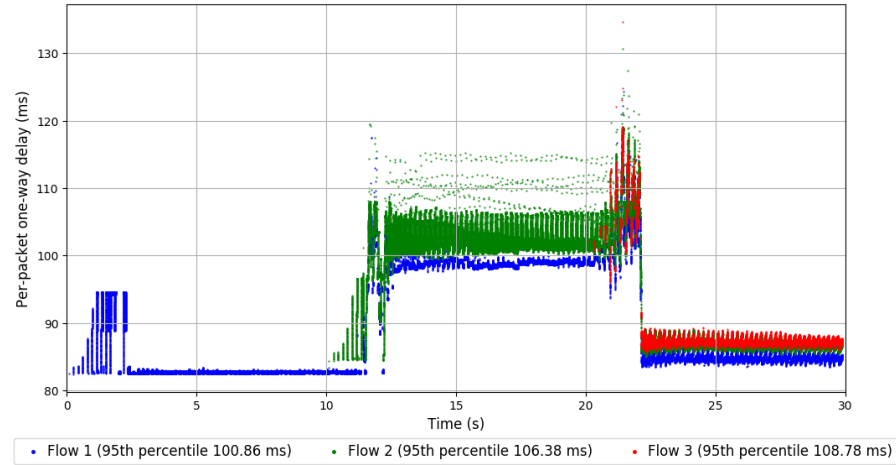
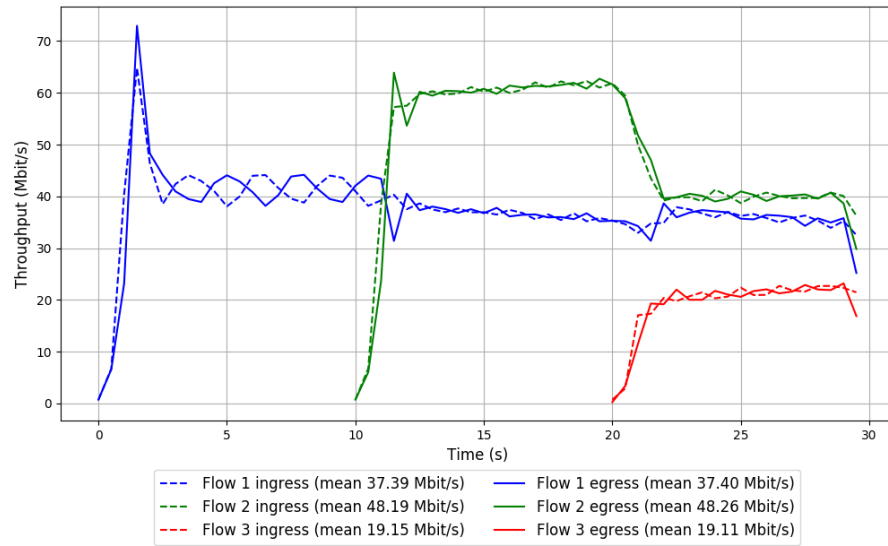
-- Flow 3:

Average throughput: 19.11 Mbit/s

95th percentile per-packet one-way delay: 108.778 ms

Loss rate: 2.20%

Run 3: Report of TCP Vegas — Data Link

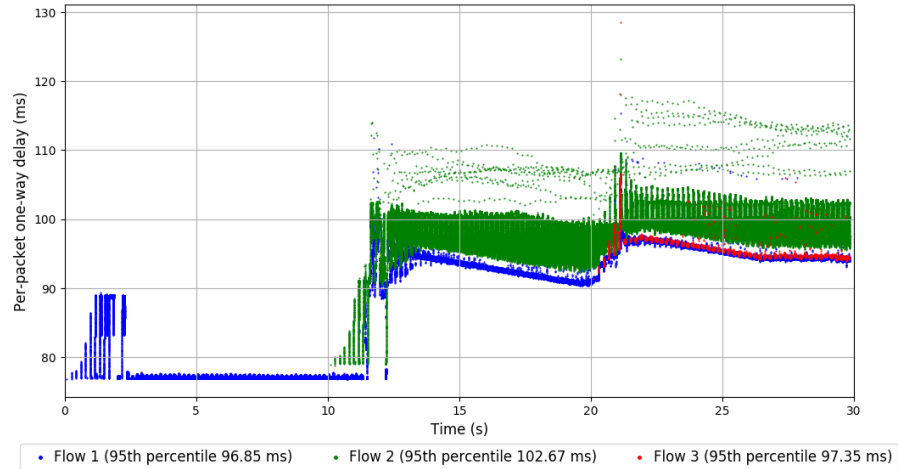
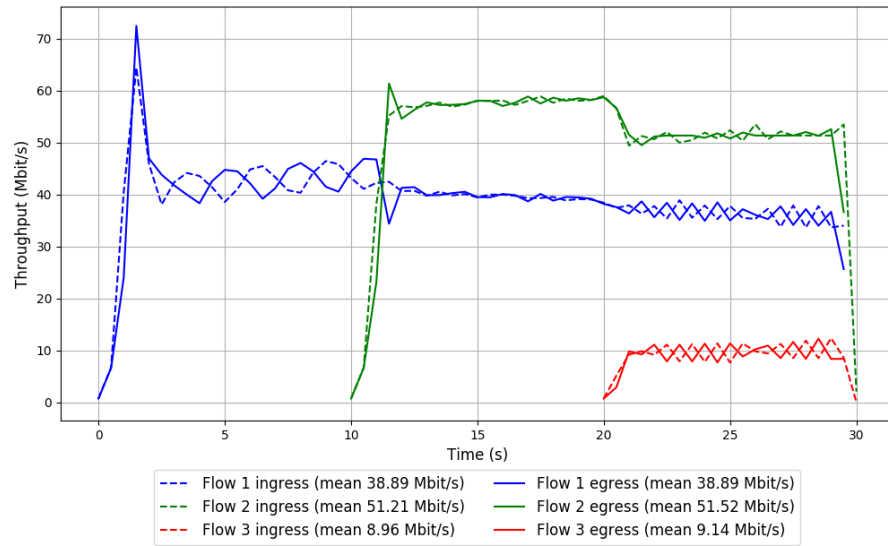


Run 4: Statistics of TCP Vegas

Start at: 2018-04-03 18:26:37
End at: 2018-04-03 18:27:07
Local clock offset: -4.776 ms
Remote clock offset: 11.098 ms

Below is generated by plot.py at 2018-04-04 01:14:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.08 Mbit/s
95th percentile per-packet one-way delay: 102.105 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 96.851 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 51.52 Mbit/s
95th percentile per-packet one-way delay: 102.669 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 97.353 ms
Loss rate: 2.33%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-03 18:50:24

End at: 2018-04-03 18:50:54

Local clock offset: -1.789 ms

Remote clock offset: 9.57 ms

Below is generated by plot.py at 2018-04-04 01:14:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.31 Mbit/s

95th percentile per-packet one-way delay: 112.666 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 108.910 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 44.77 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 0.77%

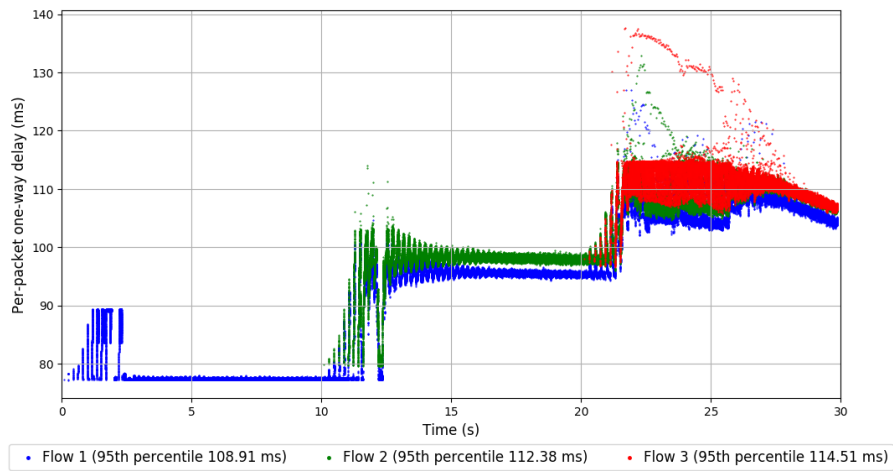
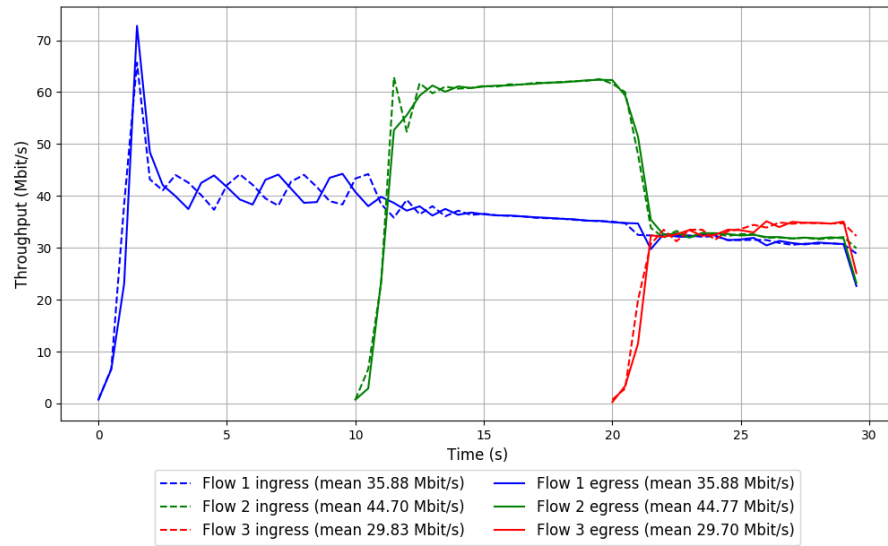
-- Flow 3:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 114.510 ms

Loss rate: 2.44%

Run 5: Report of TCP Vegas — Data Link

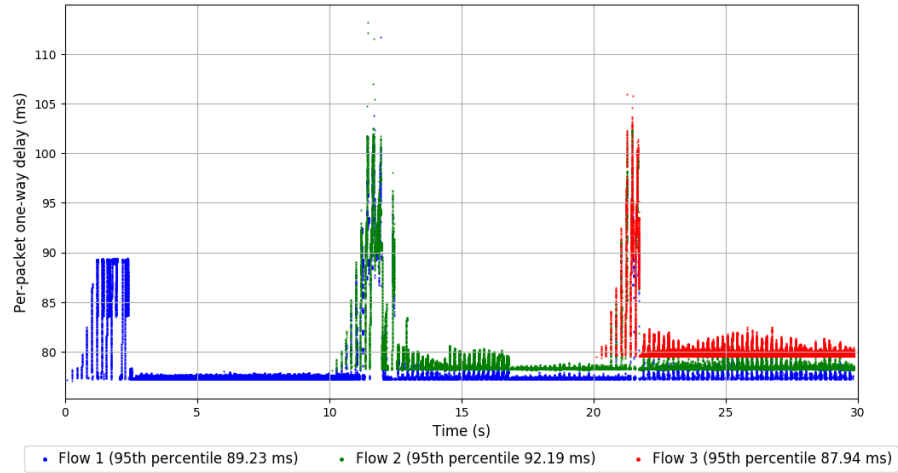
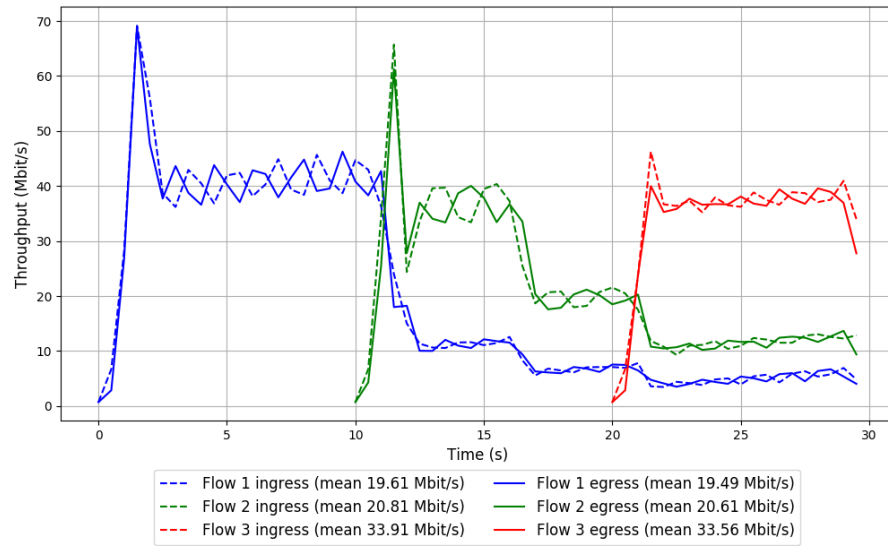


Run 6: Statistics of TCP Vegas

Start at: 2018-04-03 19:15:50
End at: 2018-04-03 19:16:20
Local clock offset: -2.747 ms
Remote clock offset: 10.372 ms

Below is generated by plot.py at 2018-04-04 01:14:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.14 Mbit/s
95th percentile per-packet one-way delay: 90.392 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 19.49 Mbit/s
95th percentile per-packet one-way delay: 89.230 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 92.188 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 33.56 Mbit/s
95th percentile per-packet one-way delay: 87.937 ms
Loss rate: 2.83%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-03 19:39:44

End at: 2018-04-03 19:40:14

Local clock offset: -2.949 ms

Remote clock offset: 10.93 ms

Below is generated by plot.py at 2018-04-04 01:14:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 91.011 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 21.39 Mbit/s

95th percentile per-packet one-way delay: 90.876 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 22.85 Mbit/s

95th percentile per-packet one-way delay: 92.962 ms

Loss rate: 1.87%

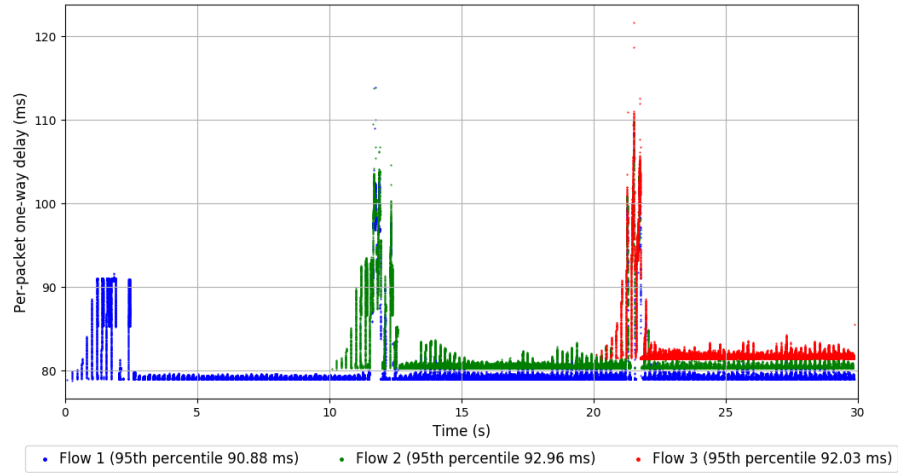
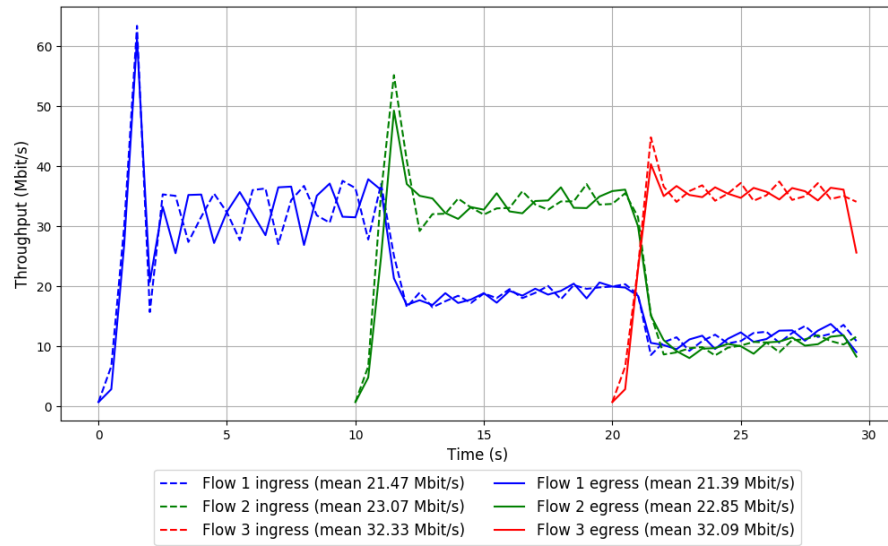
-- Flow 3:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 92.031 ms

Loss rate: 2.52%

Run 7: Report of TCP Vegas — Data Link

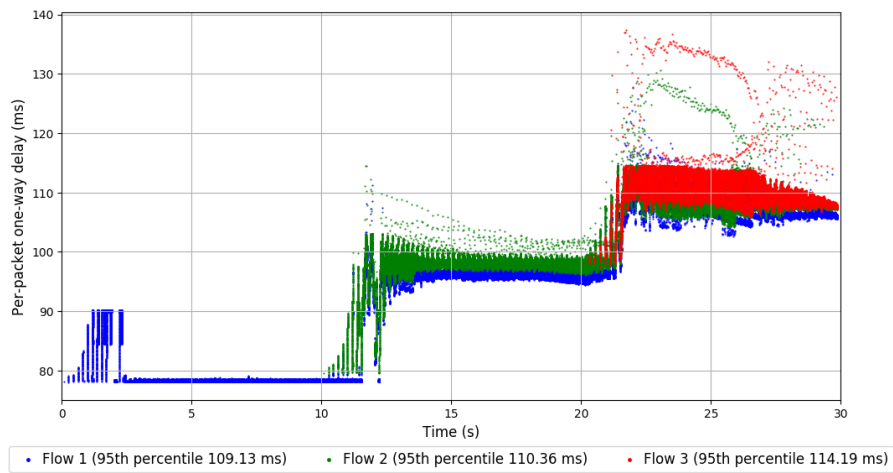
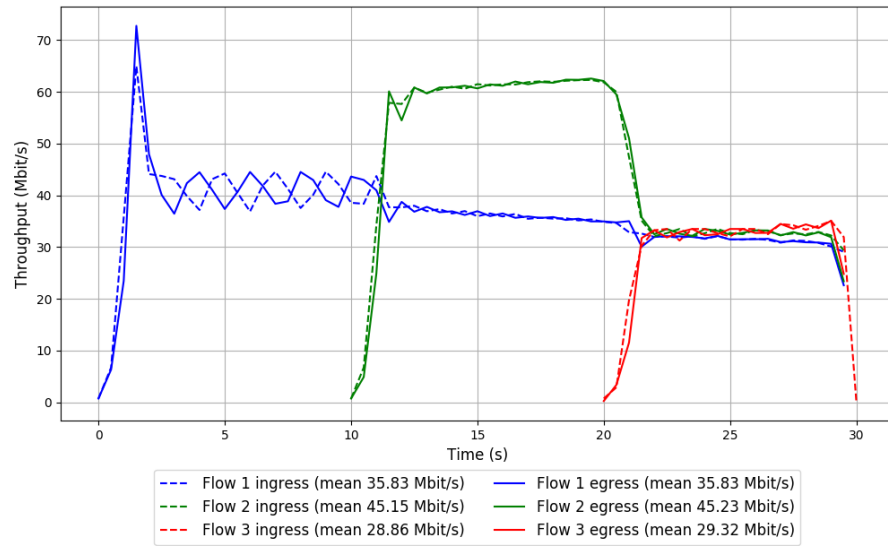


Run 8: Statistics of TCP Vegas

Start at: 2018-04-03 20:03:33
End at: 2018-04-03 20:04:03
Local clock offset: -2.935 ms
Remote clock offset: 12.151 ms

Below is generated by plot.py at 2018-04-04 01:15:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.44 Mbit/s
95th percentile per-packet one-way delay: 112.260 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 35.83 Mbit/s
95th percentile per-packet one-way delay: 109.130 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 45.23 Mbit/s
95th percentile per-packet one-way delay: 110.363 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 114.193 ms
Loss rate: 2.45%

Run 8: Report of TCP Vegas — Data Link

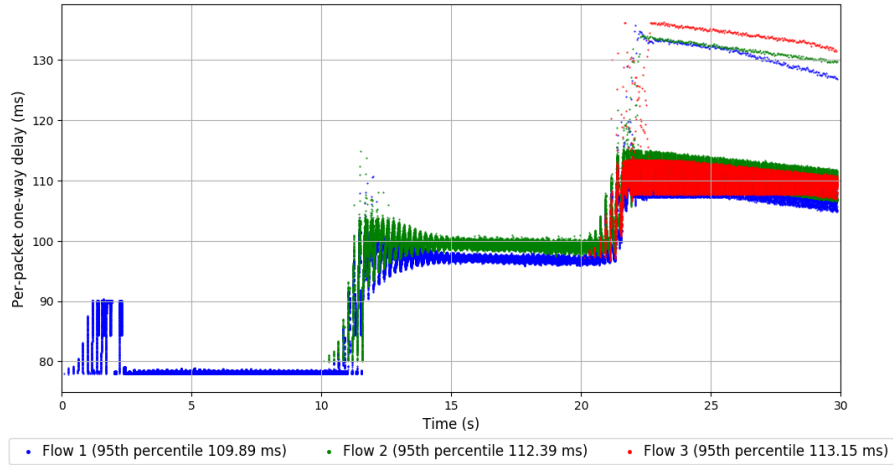
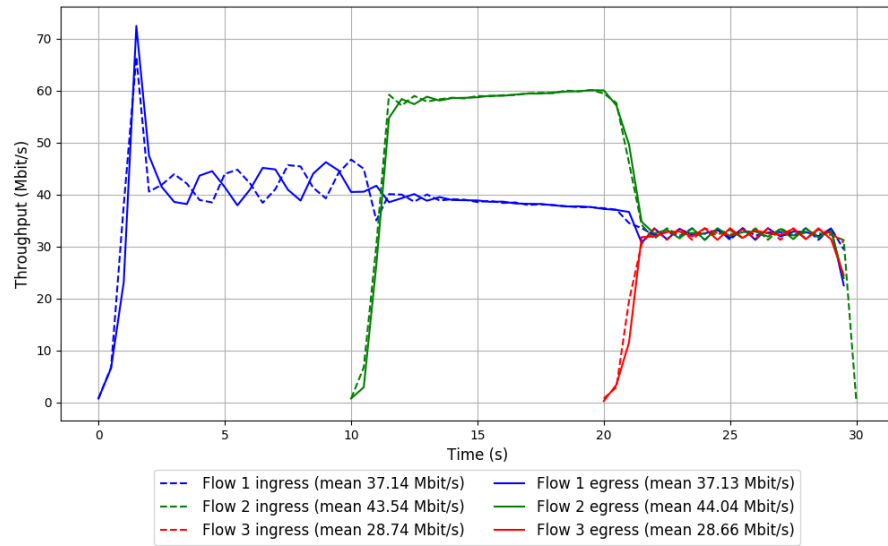


Run 9: Statistics of TCP Vegas

Start at: 2018-04-03 20:27:22
End at: 2018-04-03 20:27:52
Local clock offset: -4.608 ms
Remote clock offset: 11.003 ms

Below is generated by plot.py at 2018-04-04 01:15:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 112.084 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 109.885 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 44.04 Mbit/s
95th percentile per-packet one-way delay: 112.394 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 28.66 Mbit/s
95th percentile per-packet one-way delay: 113.152 ms
Loss rate: 2.48%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-03 20:51:31

End at: 2018-04-03 20:52:01

Local clock offset: -6.725 ms

Remote clock offset: 5.5 ms

Below is generated by plot.py at 2018-04-04 01:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.49 Mbit/s

95th percentile per-packet one-way delay: 118.830 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 117.901 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 118.815 ms

Loss rate: 0.78%

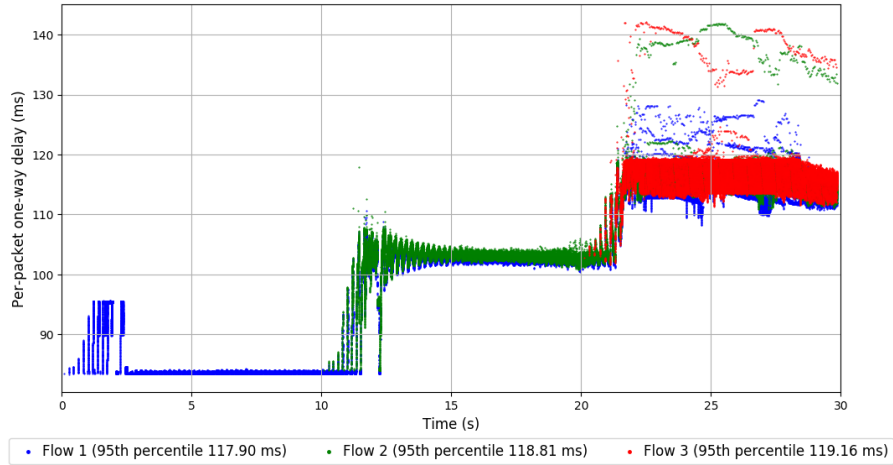
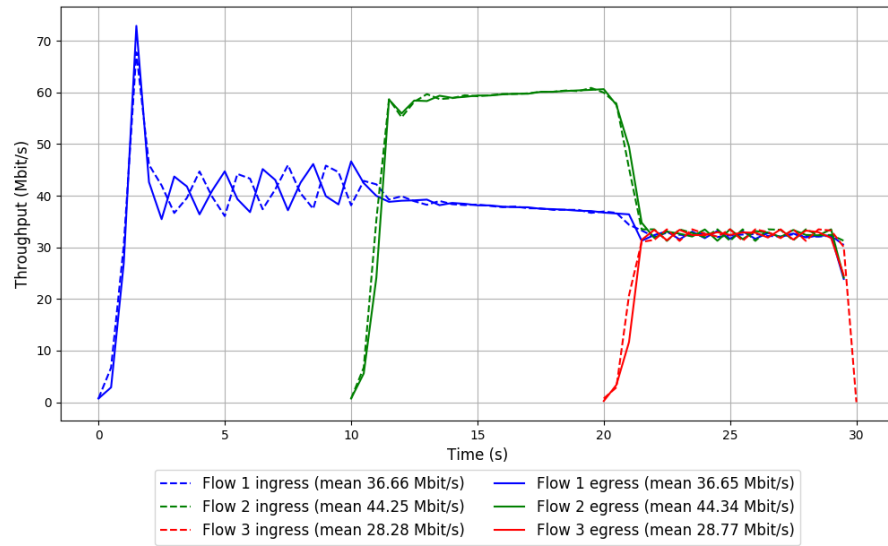
-- Flow 3:

Average throughput: 28.77 Mbit/s

95th percentile per-packet one-way delay: 119.163 ms

Loss rate: 2.48%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-03 17:08:27

End at: 2018-04-03 17:08:57

Local clock offset: -7.371 ms

Remote clock offset: 7.281 ms

Below is generated by plot.py at 2018-04-04 01:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.75 Mbit/s

95th percentile per-packet one-way delay: 116.204 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 115.770 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 45.18 Mbit/s

95th percentile per-packet one-way delay: 115.022 ms

Loss rate: 1.04%

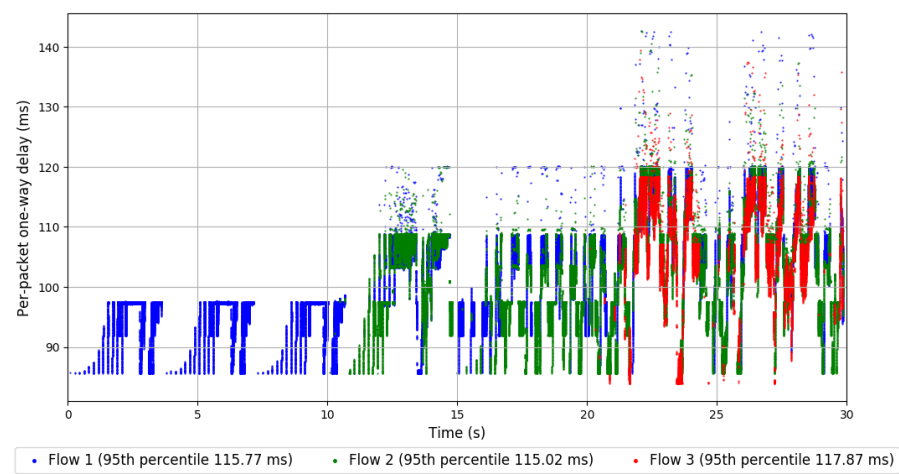
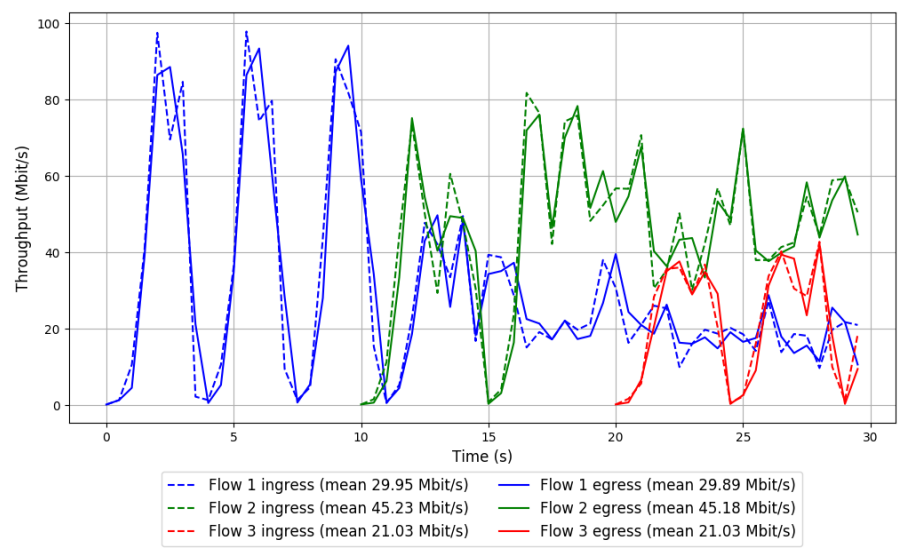
-- Flow 3:

Average throughput: 21.03 Mbit/s

95th percentile per-packet one-way delay: 117.871 ms

Loss rate: 2.37%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-03 17:32:26

End at: 2018-04-03 17:32:56

Local clock offset: -2.89 ms

Remote clock offset: 6.722 ms

Below is generated by plot.py at 2018-04-04 01:15:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 117.828 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 115.539 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 118.881 ms

Loss rate: 0.10%

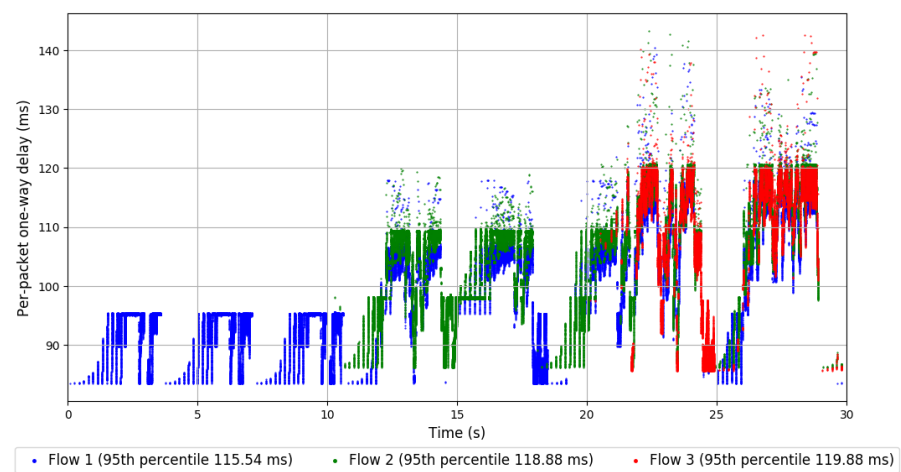
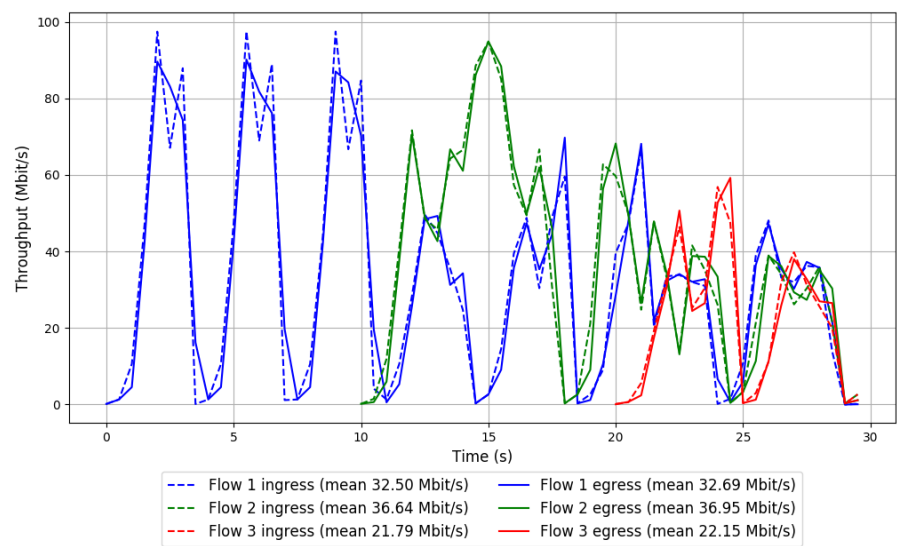
-- Flow 3:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 119.876 ms

Loss rate: 0.35%

Run 2: Report of Verus — Data Link

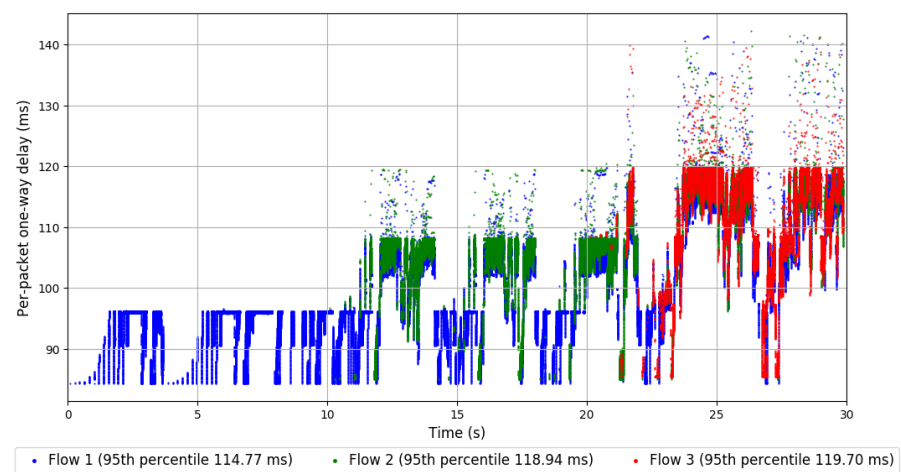
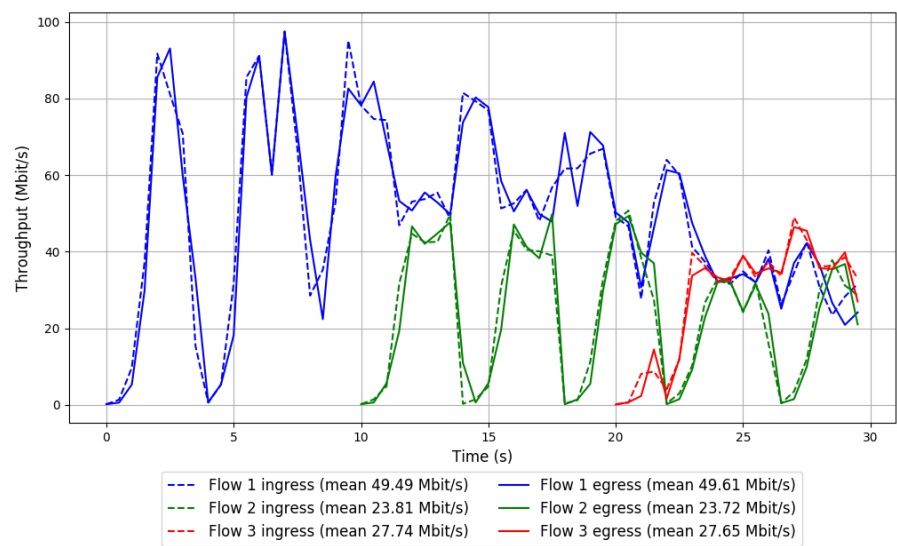


Run 3: Statistics of Verus

Start at: 2018-04-03 17:56:15
End at: 2018-04-03 17:56:45
Local clock offset: -4.821 ms
Remote clock offset: 6.131 ms

Below is generated by plot.py at 2018-04-04 01:15:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 118.024 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 114.770 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 118.941 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 27.65 Mbit/s
95th percentile per-packet one-way delay: 119.696 ms
Loss rate: 2.56%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-03 18:20:03

End at: 2018-04-03 18:20:33

Local clock offset: -6.714 ms

Remote clock offset: 9.236 ms

Below is generated by plot.py at 2018-04-04 01:15:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.64 Mbit/s

95th percentile per-packet one-way delay: 113.309 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 113.305 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 36.59 Mbit/s

95th percentile per-packet one-way delay: 112.287 ms

Loss rate: 1.37%

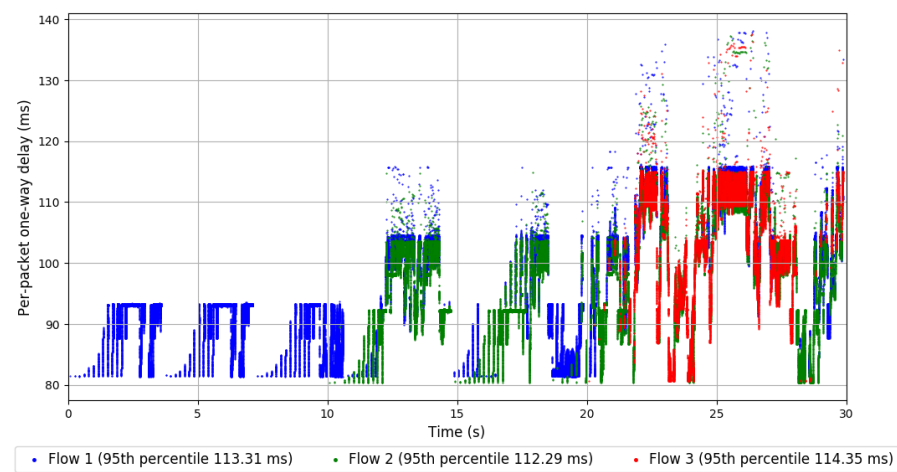
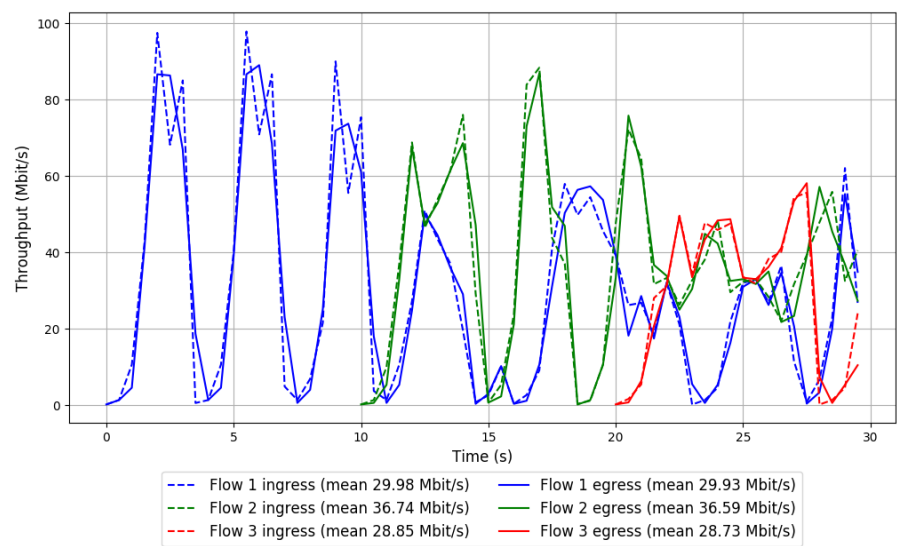
-- Flow 3:

Average throughput: 28.73 Mbit/s

95th percentile per-packet one-way delay: 114.352 ms

Loss rate: 2.36%

Run 4: Report of Verus — Data Link

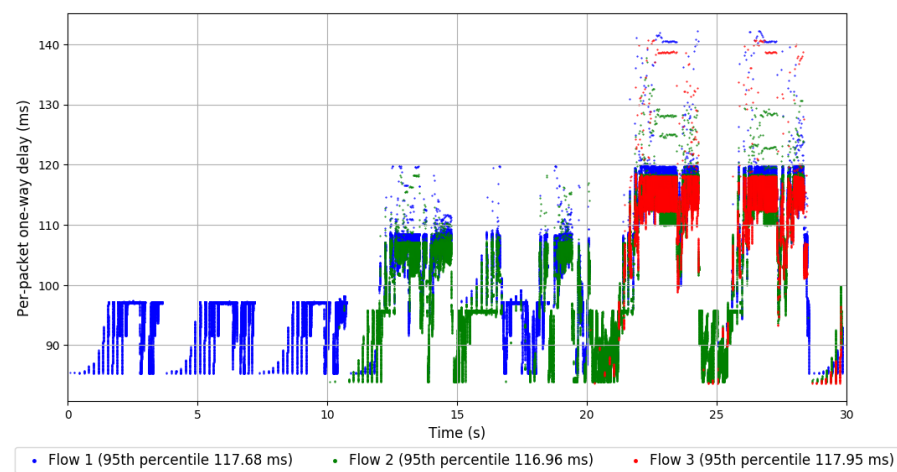
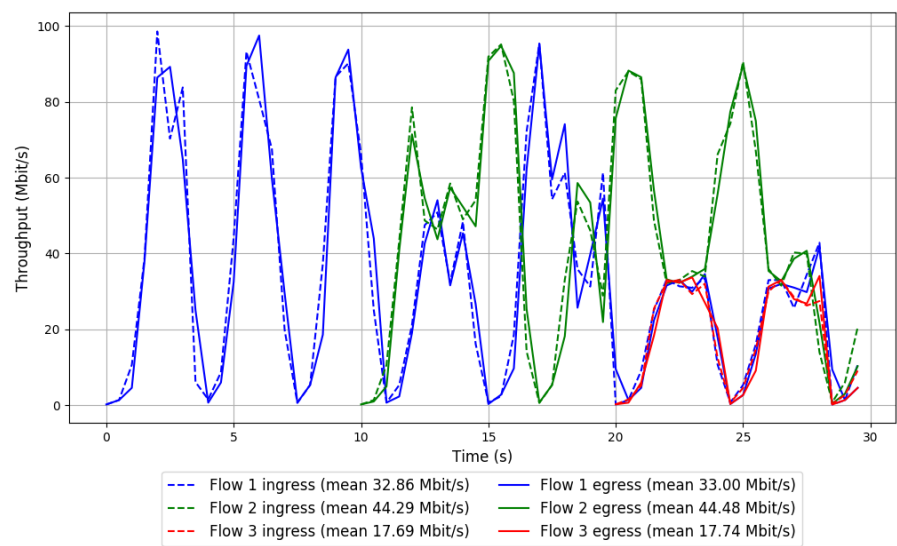


Run 5: Statistics of Verus

Start at: 2018-04-03 18:43:50
End at: 2018-04-03 18:44:20
Local clock offset: -2.253 ms
Remote clock offset: 3.94 ms

Below is generated by plot.py at 2018-04-04 01:16:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.20 Mbit/s
95th percentile per-packet one-way delay: 117.529 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 117.679 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 44.48 Mbit/s
95th percentile per-packet one-way delay: 116.957 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 17.74 Mbit/s
95th percentile per-packet one-way delay: 117.947 ms
Loss rate: 1.74%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-03 19:09:15

End at: 2018-04-03 19:09:45

Local clock offset: -2.771 ms

Remote clock offset: 9.287 ms

Below is generated by plot.py at 2018-04-04 01:16:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.90 Mbit/s

95th percentile per-packet one-way delay: 112.667 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 39.66 Mbit/s

95th percentile per-packet one-way delay: 110.393 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 113.813 ms

Loss rate: 0.01%

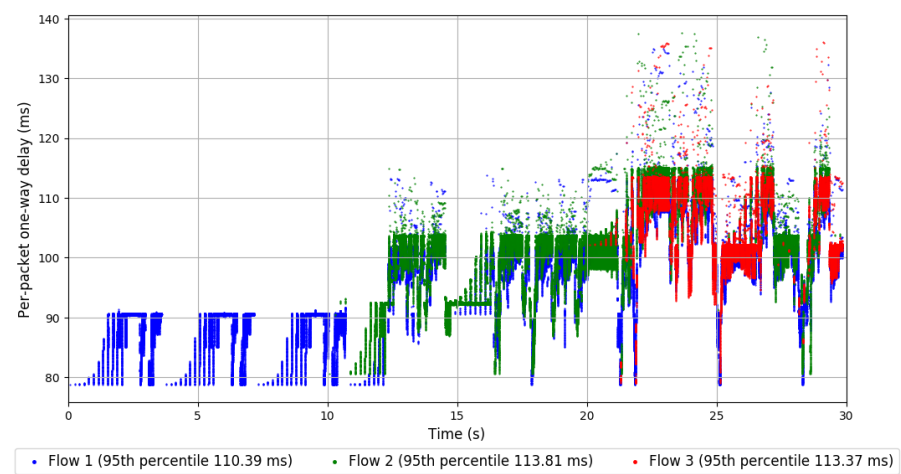
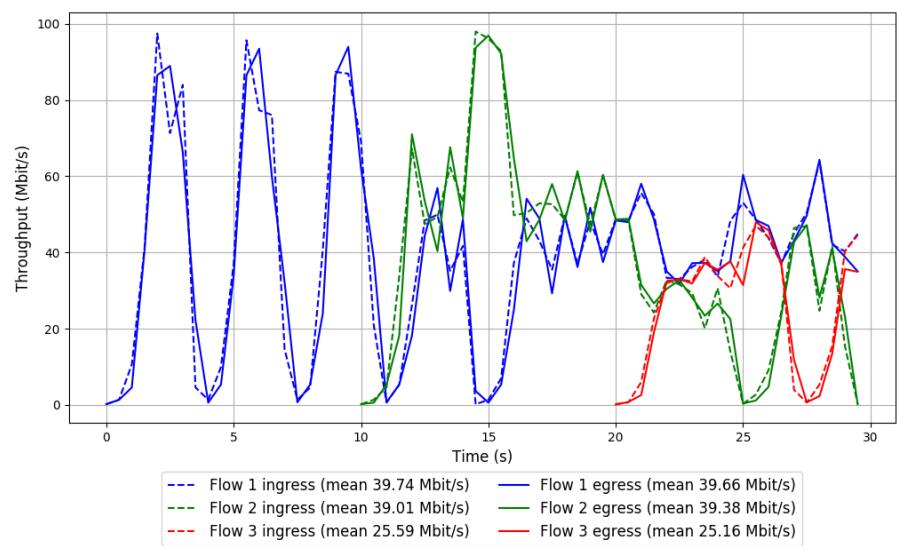
-- Flow 3:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 113.372 ms

Loss rate: 3.81%

Run 6: Report of Verus — Data Link

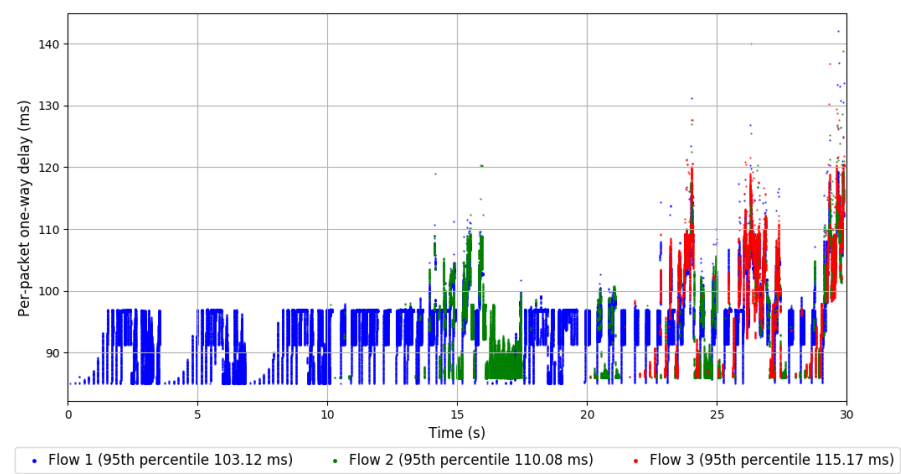
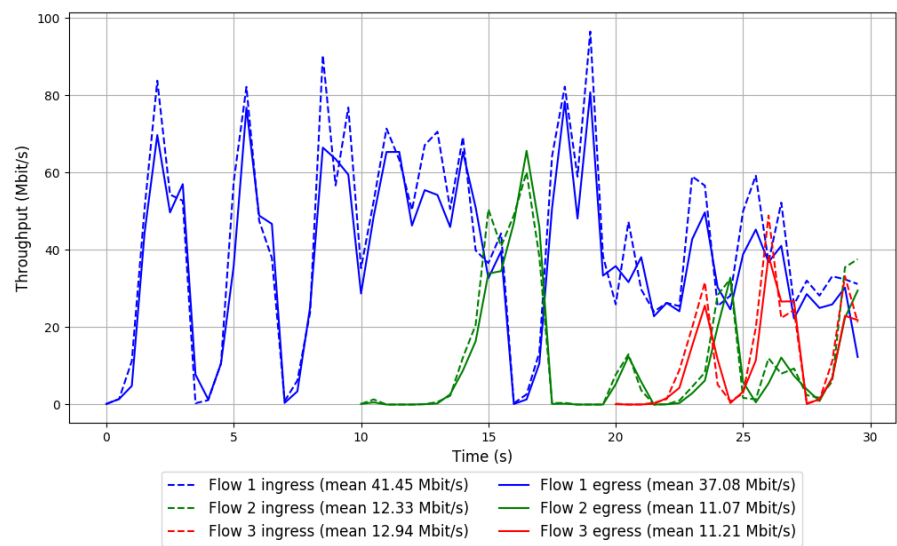


Run 7: Statistics of Verus

Start at: 2018-04-03 19:33:01
End at: 2018-04-03 19:33:31
Local clock offset: -2.786 ms
Remote clock offset: 5.9 ms

Below is generated by plot.py at 2018-04-04 01:16:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.10 Mbit/s
95th percentile per-packet one-way delay: 107.435 ms
Loss rate: 11.29%
-- Flow 1:
Average throughput: 37.08 Mbit/s
95th percentile per-packet one-way delay: 103.120 ms
Loss rate: 11.07%
-- Flow 2:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 110.083 ms
Loss rate: 10.99%
-- Flow 3:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 115.175 ms
Loss rate: 13.97%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-03 19:56:56

End at: 2018-04-03 19:57:26

Local clock offset: -2.925 ms

Remote clock offset: 12.69 ms

Below is generated by plot.py at 2018-04-04 01:16:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 111.593 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 110.108 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 110.548 ms

Loss rate: 0.71%

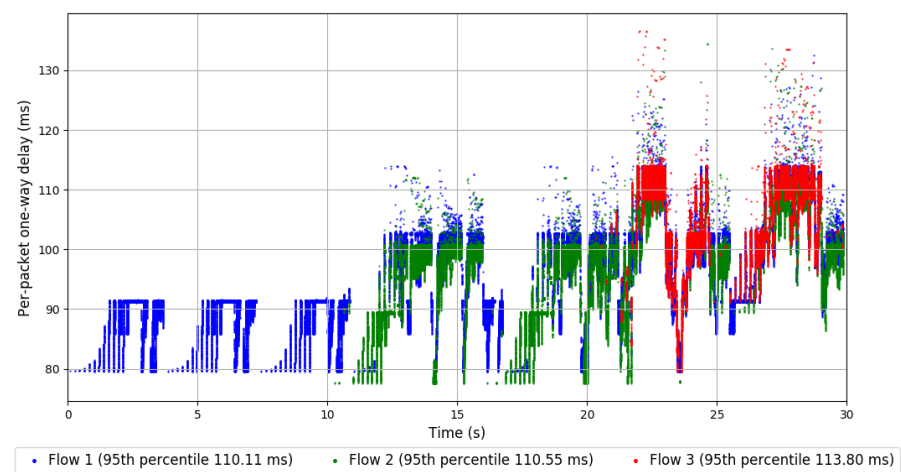
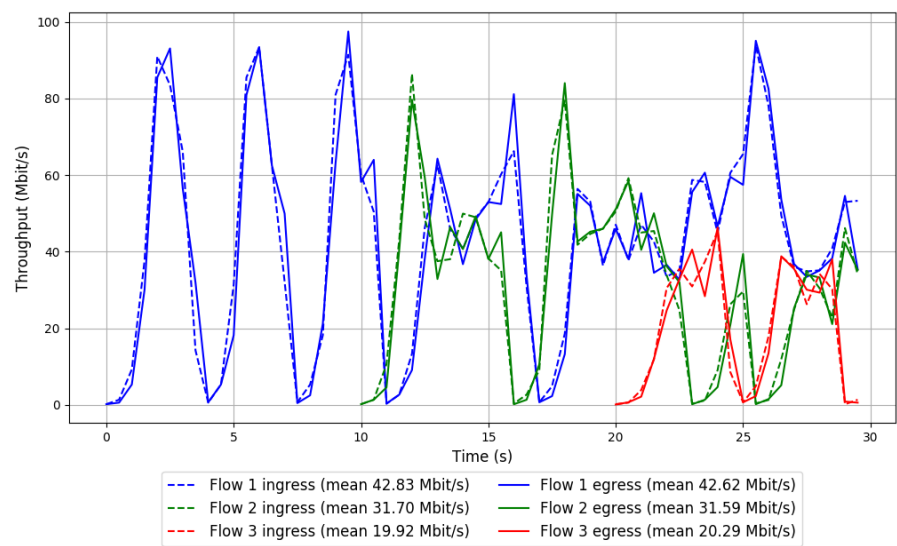
-- Flow 3:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 113.801 ms

Loss rate: 0.19%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-03 20:20:47

End at: 2018-04-03 20:21:17

Local clock offset: -4.493 ms

Remote clock offset: 5.274 ms

Below is generated by plot.py at 2018-04-04 01:16:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.58 Mbit/s

95th percentile per-packet one-way delay: 118.431 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 118.715 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 117.293 ms

Loss rate: 0.03%

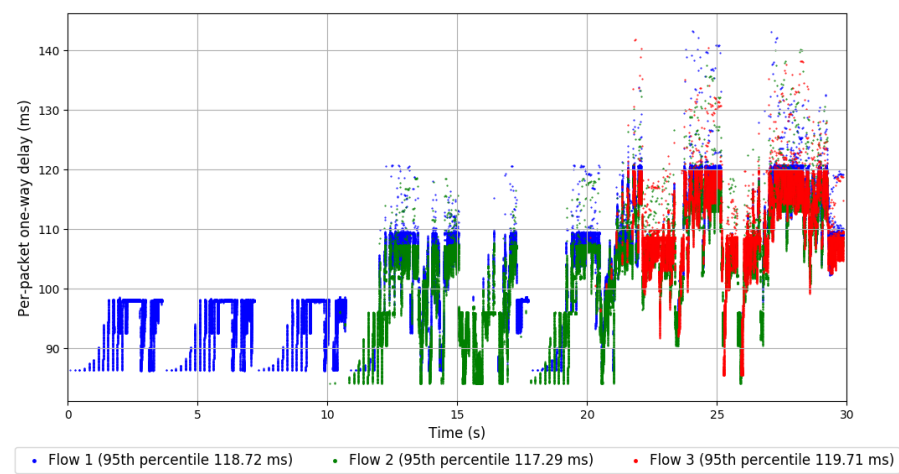
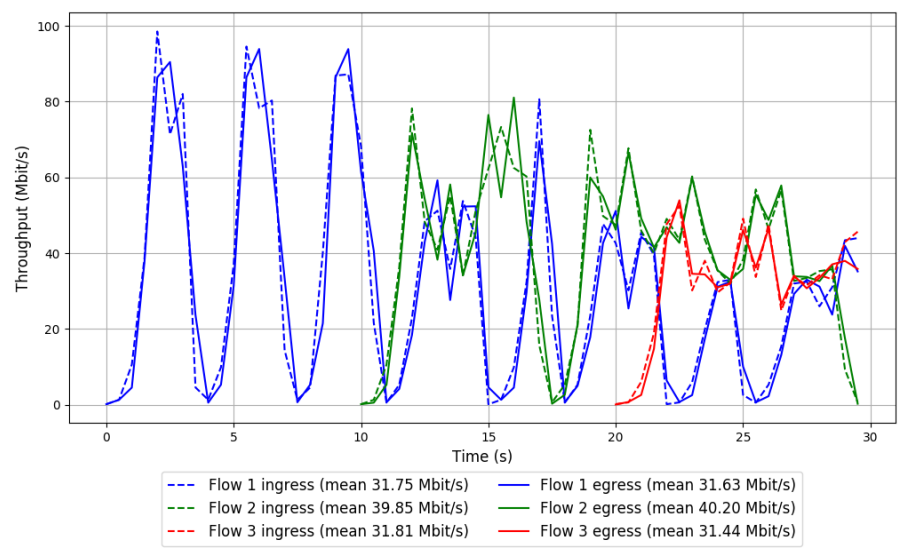
-- Flow 3:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 119.707 ms

Loss rate: 3.15%

Run 9: Report of Verus — Data Link

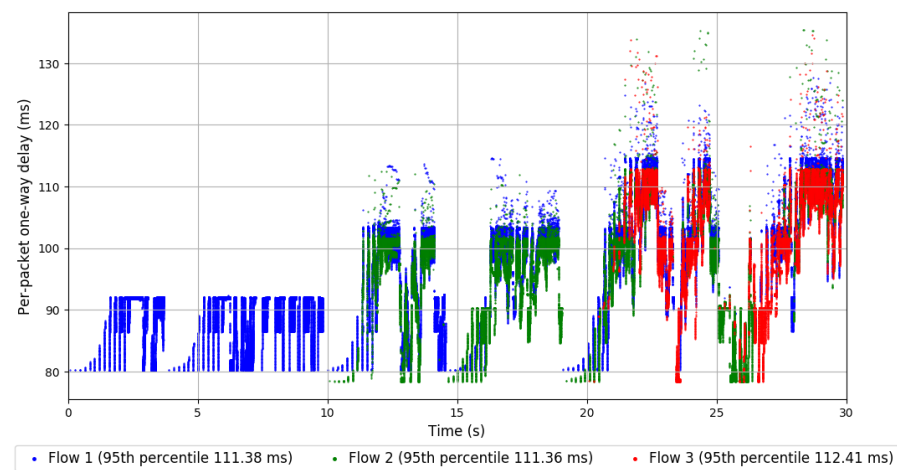
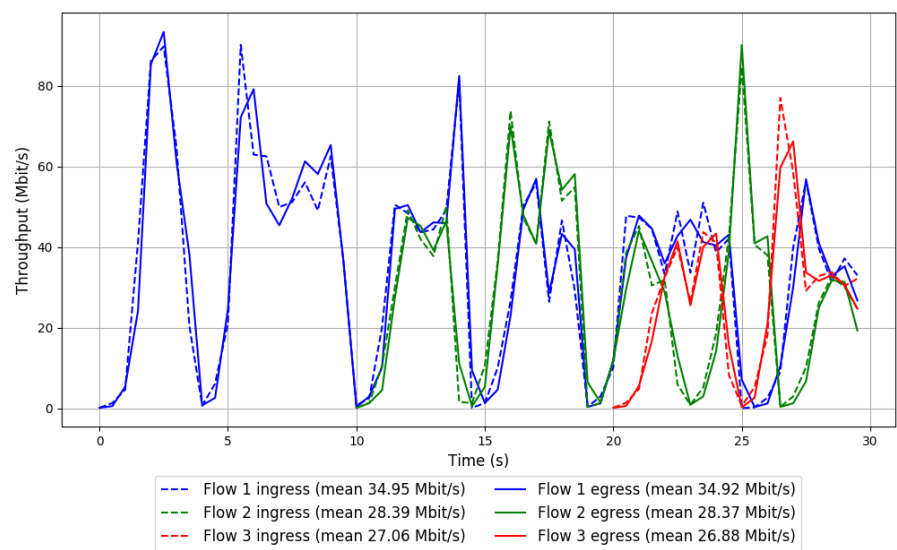


Run 10: Statistics of Verus

Start at: 2018-04-03 20:44:51
End at: 2018-04-03 20:45:21
Local clock offset: -6.05 ms
Remote clock offset: 11.214 ms

Below is generated by plot.py at 2018-04-04 01:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.57 Mbit/s
95th percentile per-packet one-way delay: 111.725 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 34.92 Mbit/s
95th percentile per-packet one-way delay: 111.383 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 111.360 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 112.411 ms
Loss rate: 2.70%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-03 17:13:38

End at: 2018-04-03 17:14:08

Local clock offset: -7.287 ms

Remote clock offset: 6.165 ms

Below is generated by plot.py at 2018-04-04 01:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.25 Mbit/s

95th percentile per-packet one-way delay: 96.127 ms

Loss rate: 13.21%

-- Flow 1:

Average throughput: 70.16 Mbit/s

95th percentile per-packet one-way delay: 96.090 ms

Loss rate: 13.10%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.083 ms

Loss rate: 50.00%

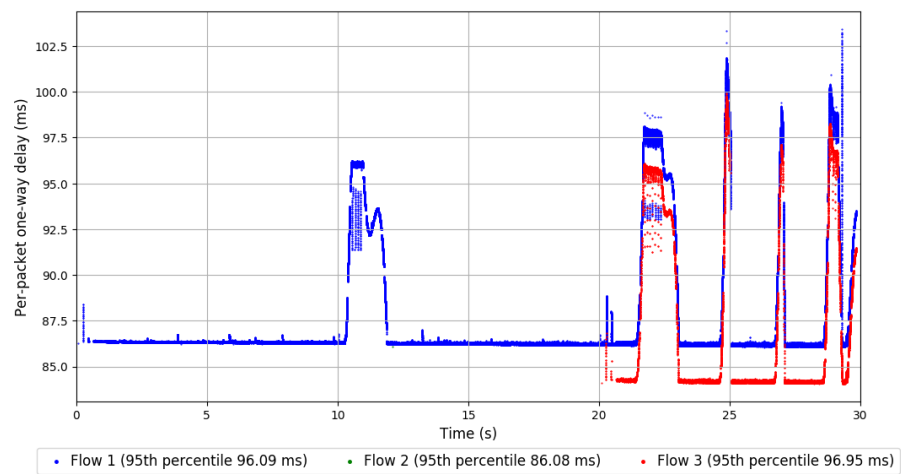
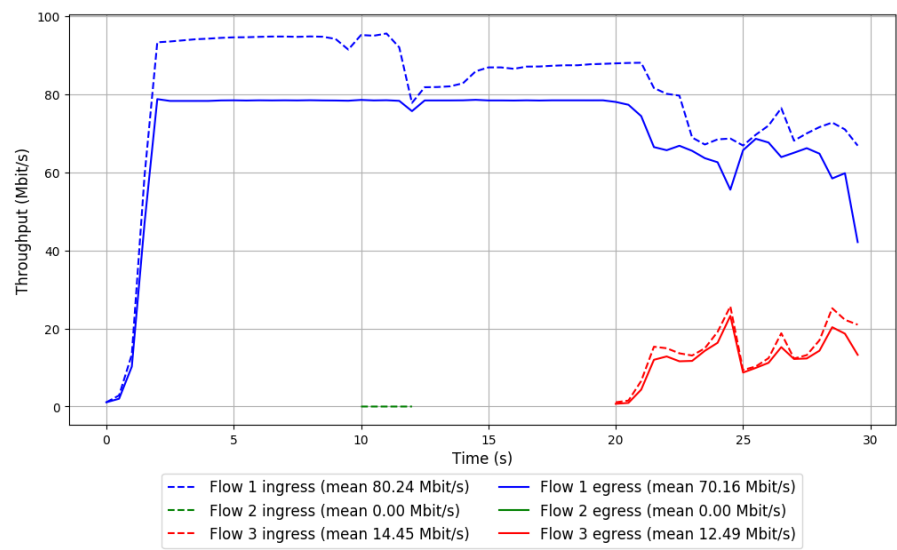
-- Flow 3:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 96.953 ms

Loss rate: 15.13%

Run 1: Report of Copa — Data Link

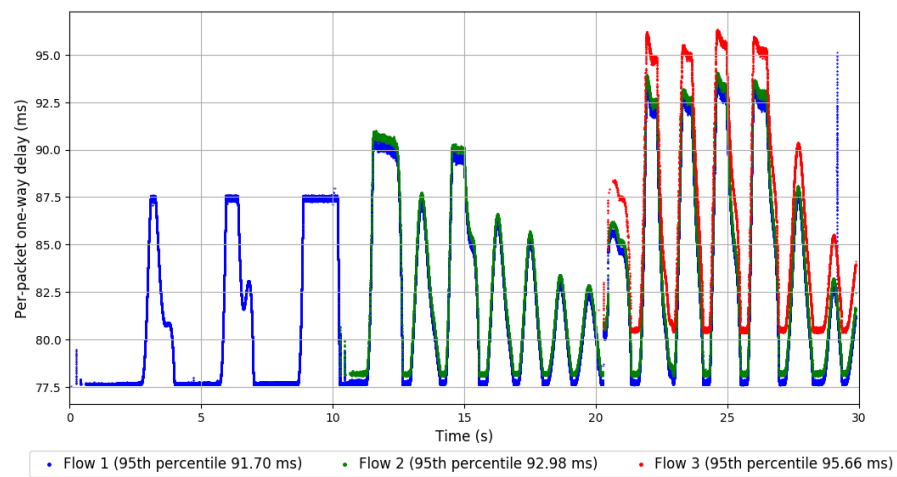
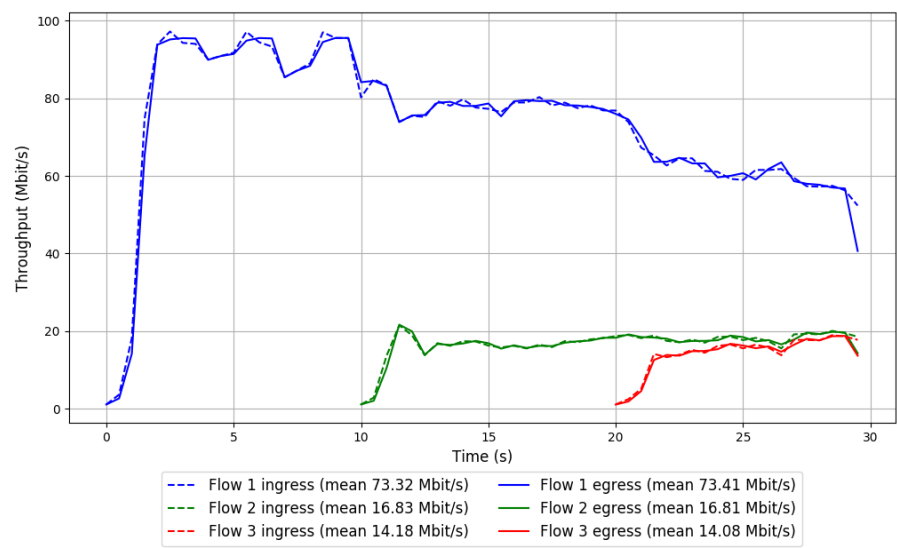


Run 2: Statistics of Copa

Start at: 2018-04-03 17:37:37
End at: 2018-04-03 17:38:07
Local clock offset: -2.537 ms
Remote clock offset: 12.675 ms

Below is generated by plot.py at 2018-04-04 01:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 92.386 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 73.41 Mbit/s
95th percentile per-packet one-way delay: 91.702 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 16.81 Mbit/s
95th percentile per-packet one-way delay: 92.981 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 14.08 Mbit/s
95th percentile per-packet one-way delay: 95.663 ms
Loss rate: 2.53%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-03 18:01:27

End at: 2018-04-03 18:01:57

Local clock offset: -5.603 ms

Remote clock offset: 5.909 ms

Below is generated by plot.py at 2018-04-04 01:18:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 99.106 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 69.54 Mbit/s

95th percentile per-packet one-way delay: 98.096 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 100.847 ms

Loss rate: 0.64%

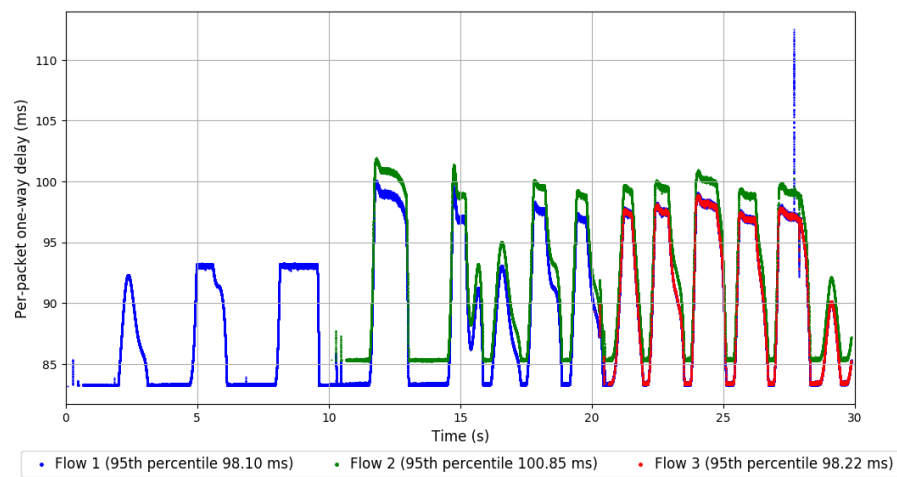
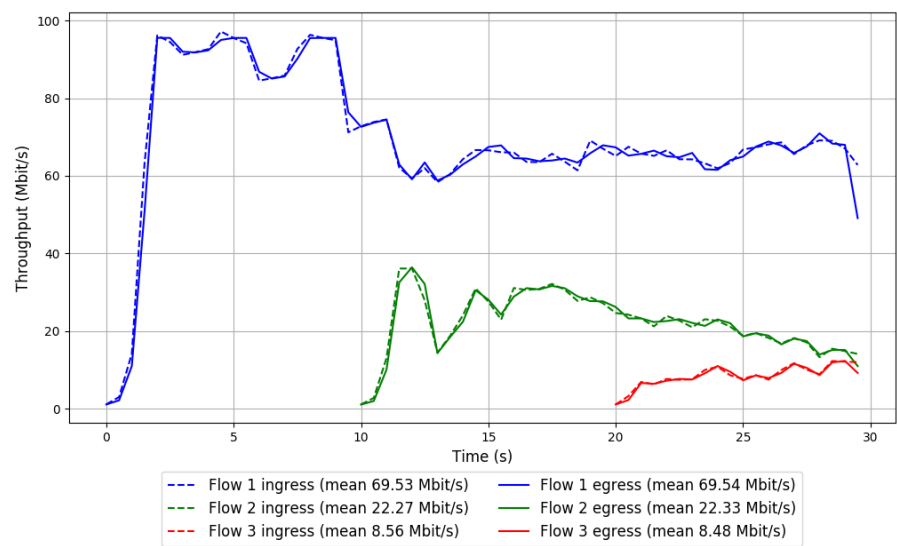
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 98.216 ms

Loss rate: 2.83%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-03 18:25:13

End at: 2018-04-03 18:25:43

Local clock offset: -5.224 ms

Remote clock offset: 5.312 ms

Below is generated by plot.py at 2018-04-04 01:18:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.10 Mbit/s

95th percentile per-packet one-way delay: 97.754 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 72.71 Mbit/s

95th percentile per-packet one-way delay: 97.286 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 99.372 ms

Loss rate: 0.71%

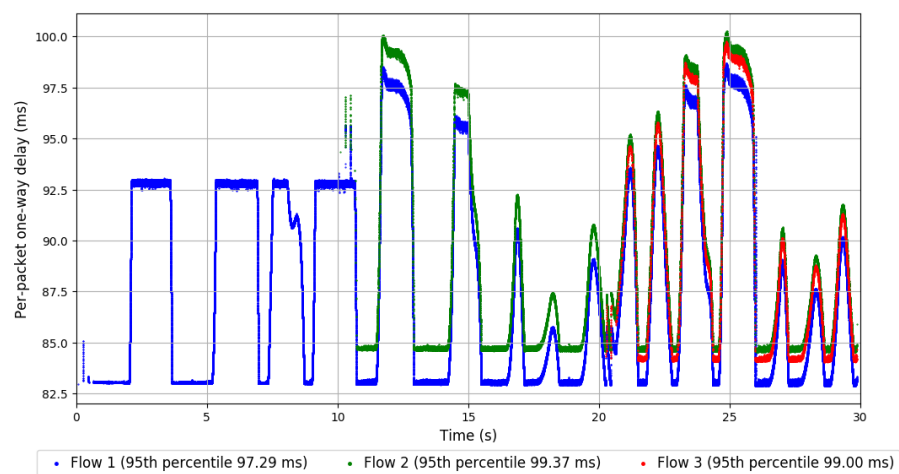
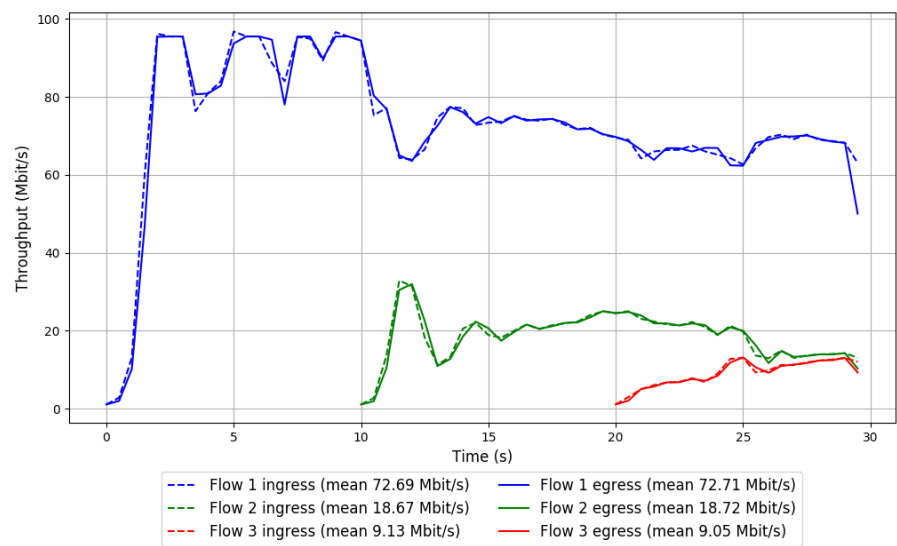
-- Flow 3:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 98.999 ms

Loss rate: 2.74%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-03 18:49:00

End at: 2018-04-03 18:49:30

Local clock offset: -1.883 ms

Remote clock offset: 3.904 ms

Below is generated by plot.py at 2018-04-04 01:19:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 98.055 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 98.243 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 13.82 Mbit/s

95th percentile per-packet one-way delay: 97.256 ms

Loss rate: 1.02%

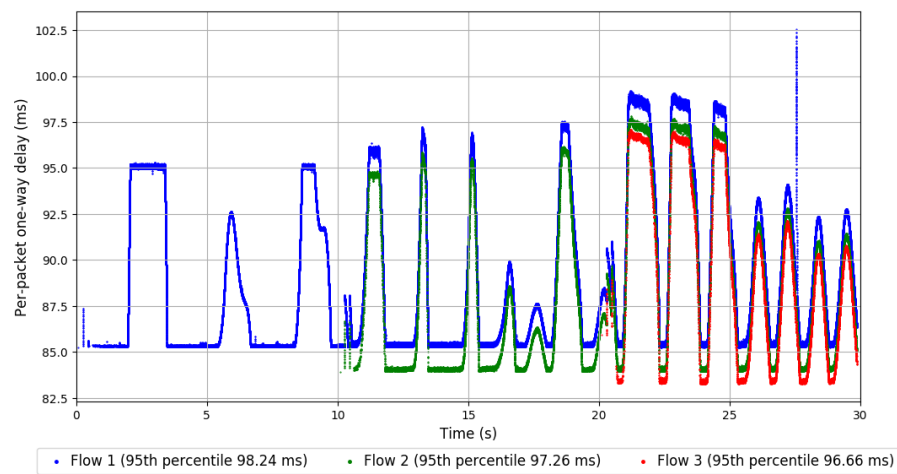
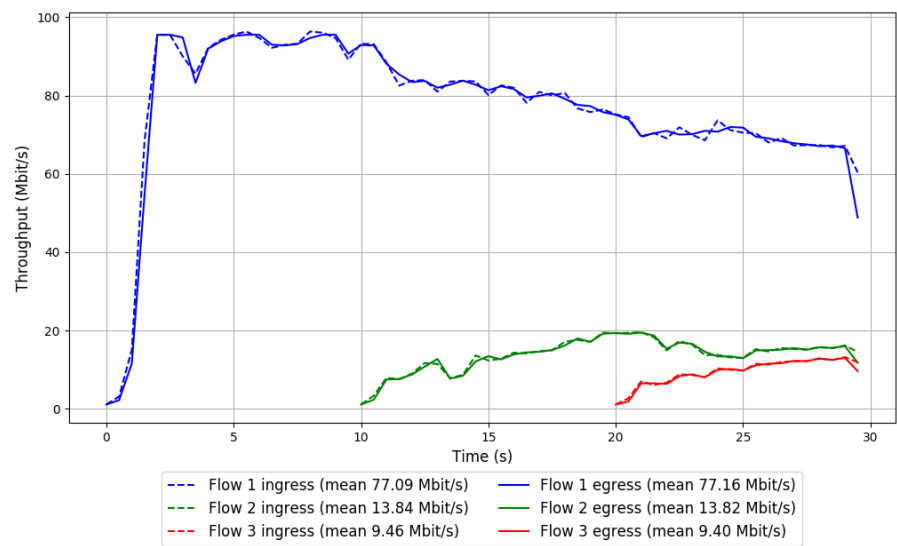
-- Flow 3:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 96.655 ms

Loss rate: 2.44%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-03 19:14:27

End at: 2018-04-03 19:14:57

Local clock offset: -2.831 ms

Remote clock offset: 9.413 ms

Below is generated by plot.py at 2018-04-04 01:19:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 90.655 ms

Loss rate: 13.21%

-- Flow 1:

Average throughput: 57.95 Mbit/s

95th percentile per-packet one-way delay: 90.649 ms

Loss rate: 12.40%

-- Flow 2:

Average throughput: 21.83 Mbit/s

95th percentile per-packet one-way delay: 89.973 ms

Loss rate: 15.87%

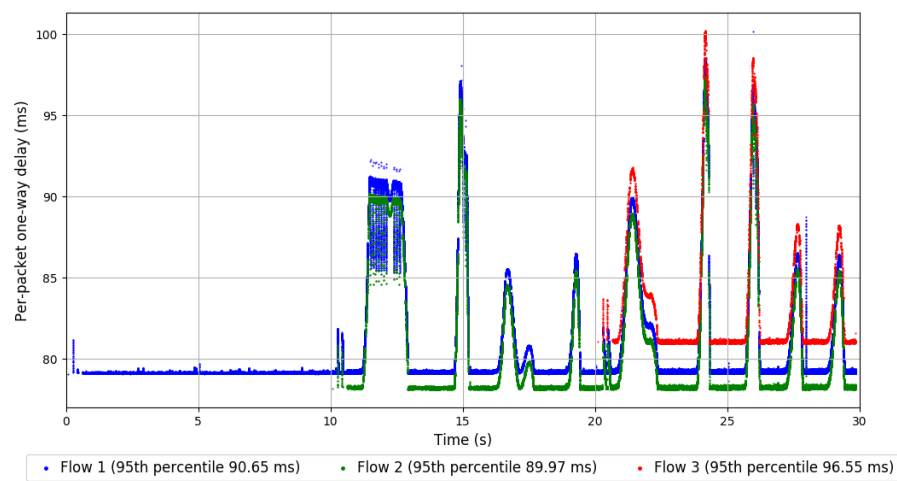
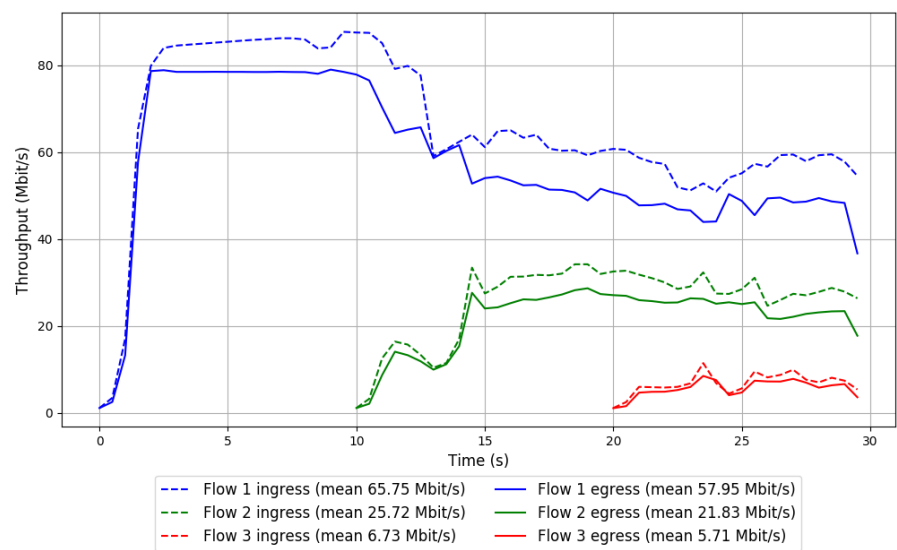
-- Flow 3:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 96.551 ms

Loss rate: 16.64%

Run 6: Report of Copa — Data Link

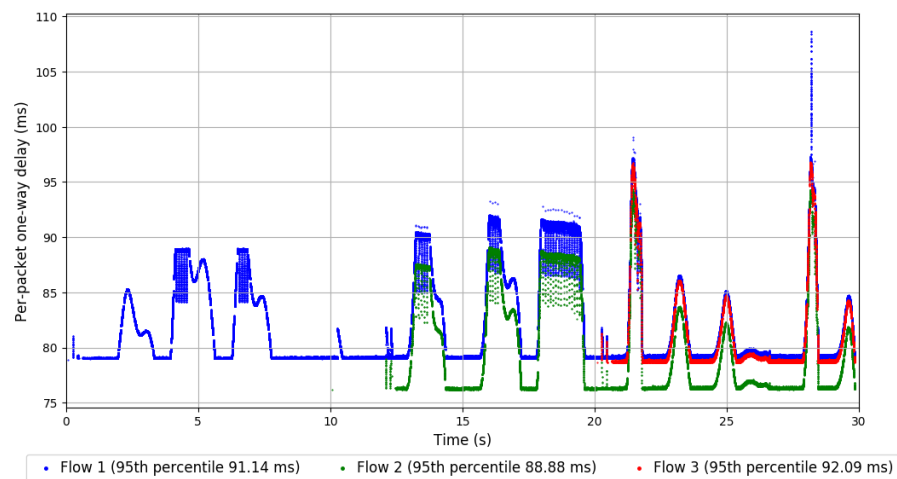
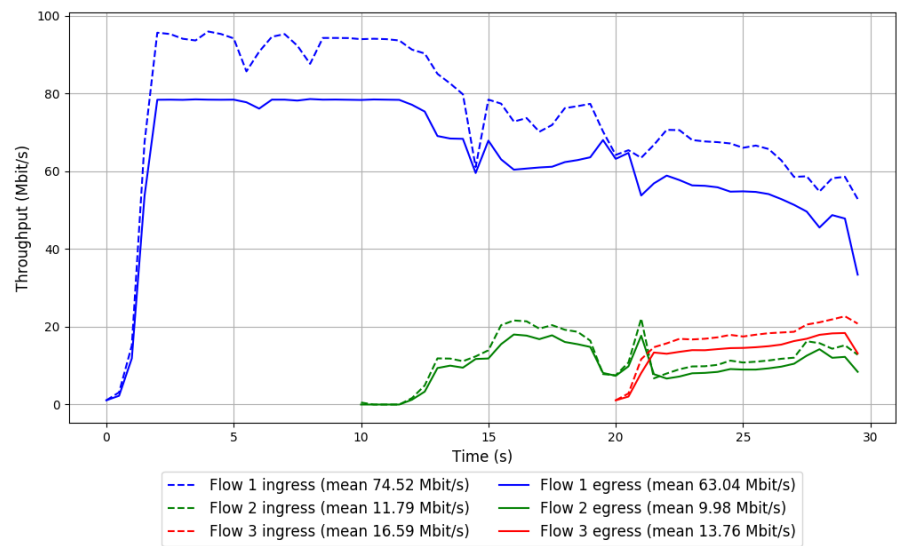


Run 7: Statistics of Copa

Start at: 2018-04-03 19:38:11
End at: 2018-04-03 19:38:41
Local clock offset: -2.973 ms
Remote clock offset: 12.902 ms

Below is generated by plot.py at 2018-04-04 01:19:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.18 Mbit/s
95th percentile per-packet one-way delay: 91.129 ms
Loss rate: 16.10%
-- Flow 1:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 91.143 ms
Loss rate: 15.92%
-- Flow 2:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 88.875 ms
Loss rate: 16.13%
-- Flow 3:
Average throughput: 13.76 Mbit/s
95th percentile per-packet one-way delay: 92.087 ms
Loss rate: 18.57%

Run 7: Report of Copa — Data Link

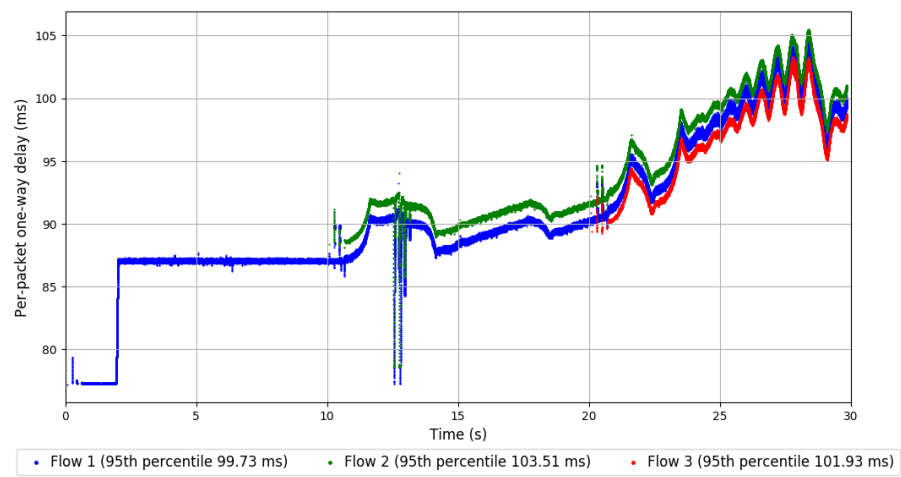
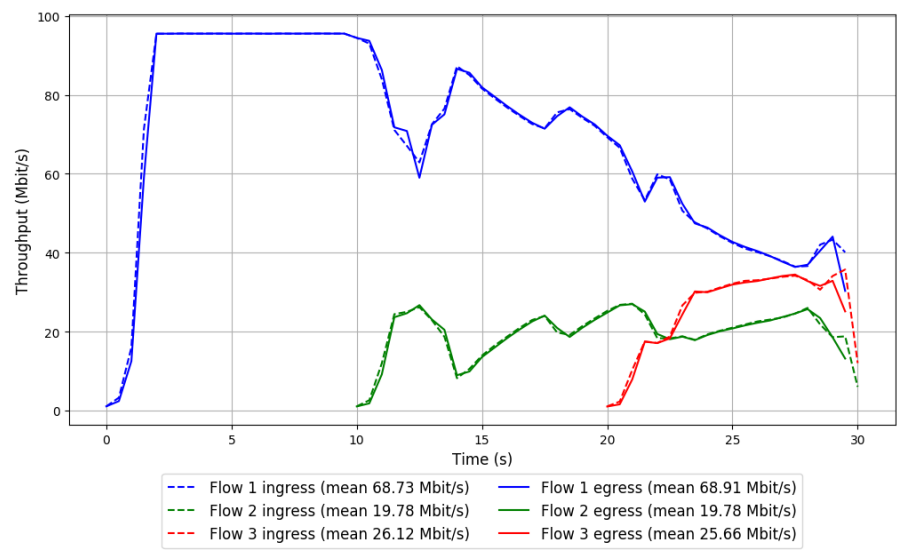


Run 8: Statistics of Copa

Start at: 2018-04-03 20:02:08
End at: 2018-04-03 20:02:38
Local clock offset: -2.868 ms
Remote clock offset: 13.267 ms

Below is generated by plot.py at 2018-04-04 01:19:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.44 Mbit/s
95th percentile per-packet one-way delay: 101.216 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 68.91 Mbit/s
95th percentile per-packet one-way delay: 99.728 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 103.508 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 101.927 ms
Loss rate: 5.57%

Run 8: Report of Copa — Data Link

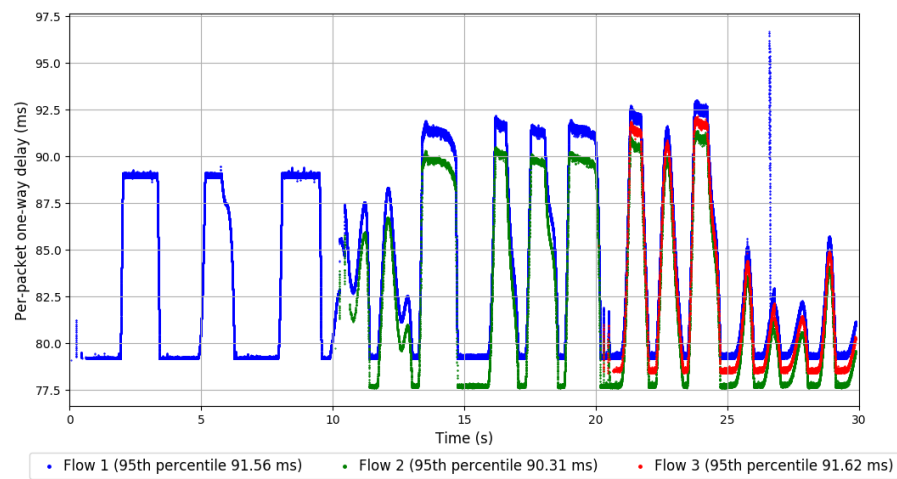
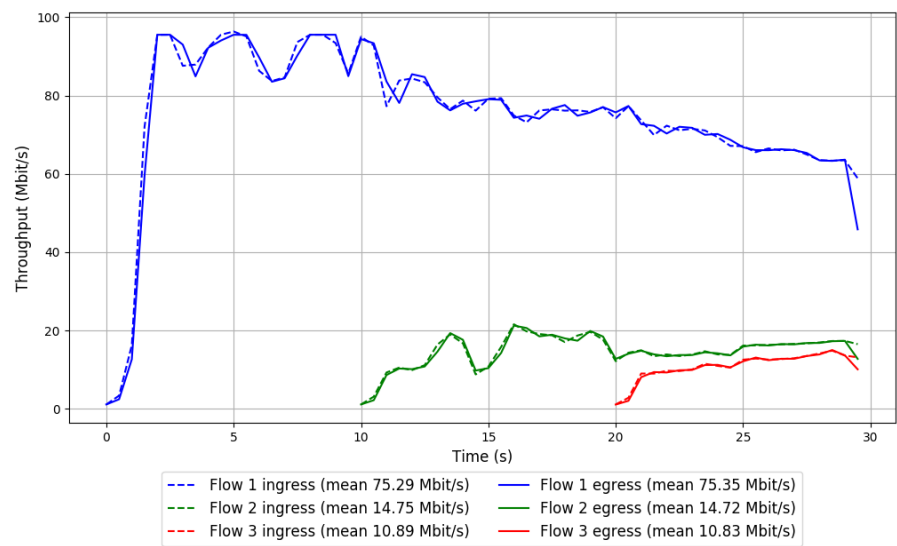


Run 9: Statistics of Copa

Start at: 2018-04-03 20:25:58
End at: 2018-04-03 20:26:28
Local clock offset: -4.574 ms
Remote clock offset: 11.095 ms

Below is generated by plot.py at 2018-04-04 01:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 91.519 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 91.563 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 90.306 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 91.624 ms
Loss rate: 2.42%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-03 20:50:07

End at: 2018-04-03 20:50:37

Local clock offset: -6.595 ms

Remote clock offset: 6.458 ms

Below is generated by plot.py at 2018-04-04 01:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 96.348 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 96.081 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 97.365 ms

Loss rate: 0.94%

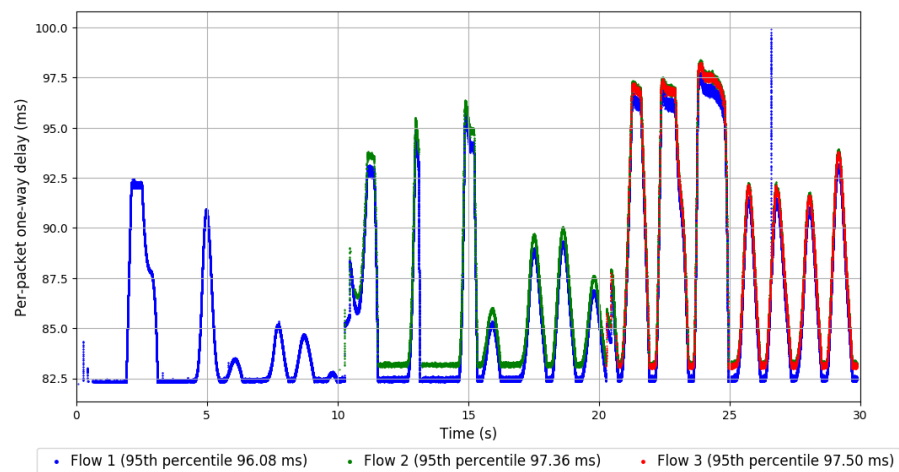
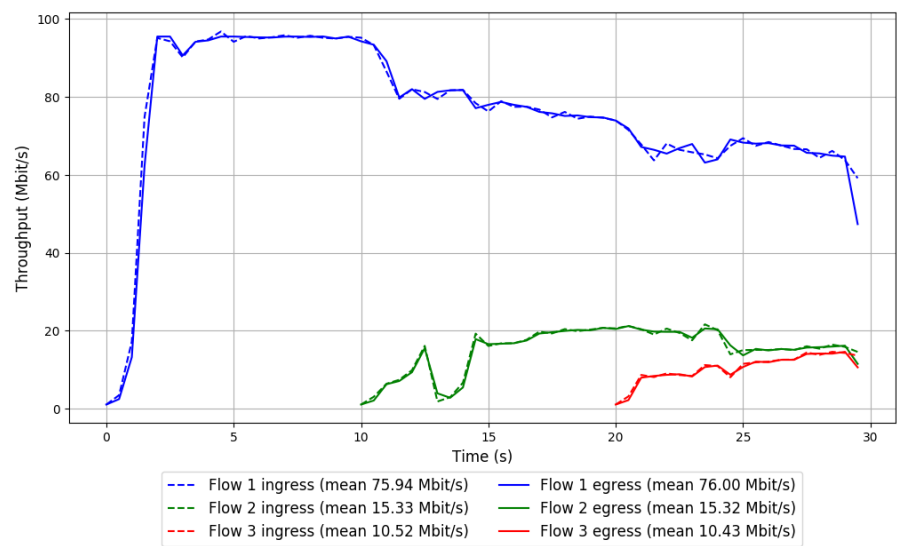
-- Flow 3:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 97.503 ms

Loss rate: 2.61%

Run 10: Report of Copa — Data Link

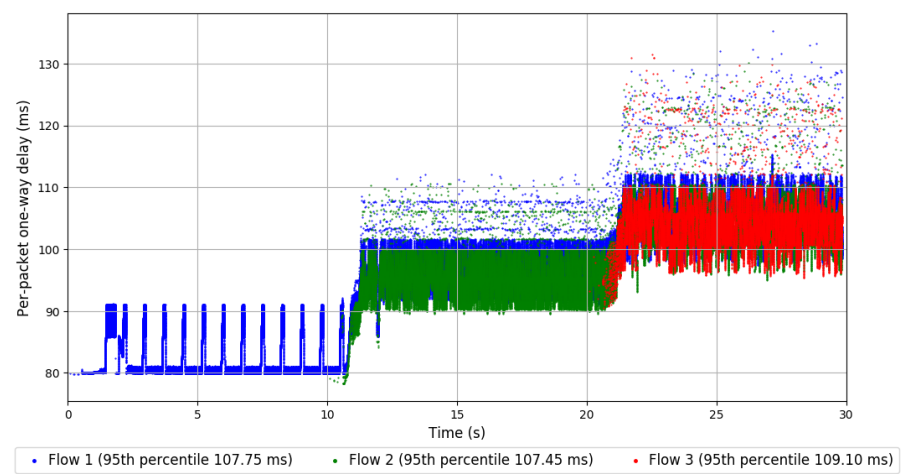
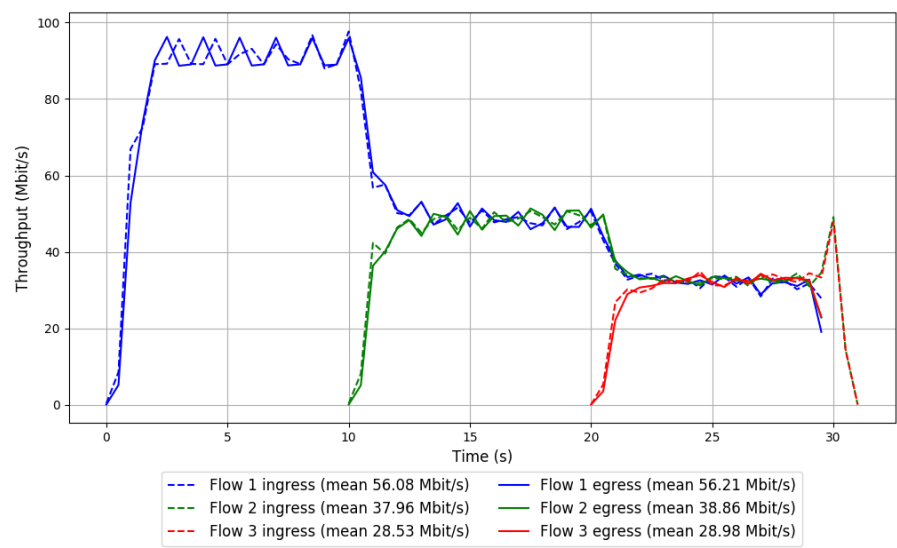


Run 1: Statistics of FillP

Start at: 2018-04-03 17:19:01
End at: 2018-04-03 17:19:31
Local clock offset: -5.038 ms
Remote clock offset: 12.391 ms

Below is generated by plot.py at 2018-04-04 01:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 107.970 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 107.749 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 107.453 ms
Loss rate: 5.04%
-- Flow 3:
Average throughput: 28.98 Mbit/s
95th percentile per-packet one-way delay: 109.101 ms
Loss rate: 12.54%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-03 17:42:52

End at: 2018-04-03 17:43:22

Local clock offset: -2.371 ms

Remote clock offset: 7.868 ms

Below is generated by plot.py at 2018-04-04 01:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.39 Mbit/s

95th percentile per-packet one-way delay: 112.171 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 110.432 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 112.390 ms

Loss rate: 4.61%

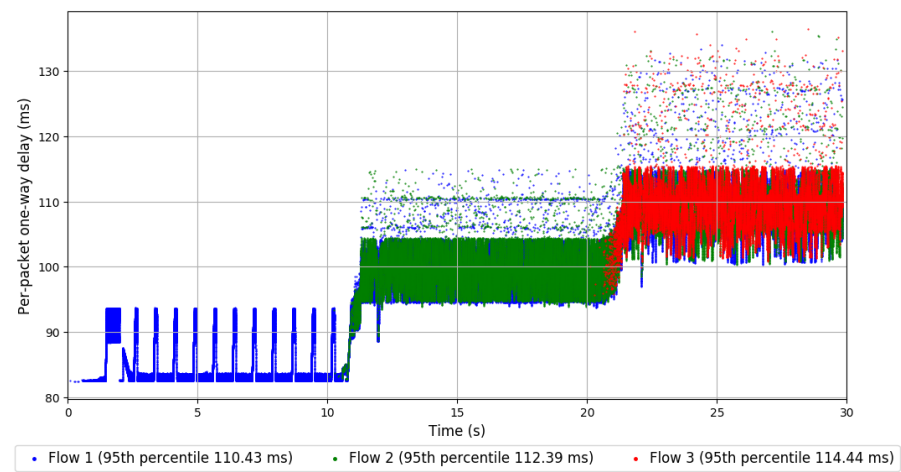
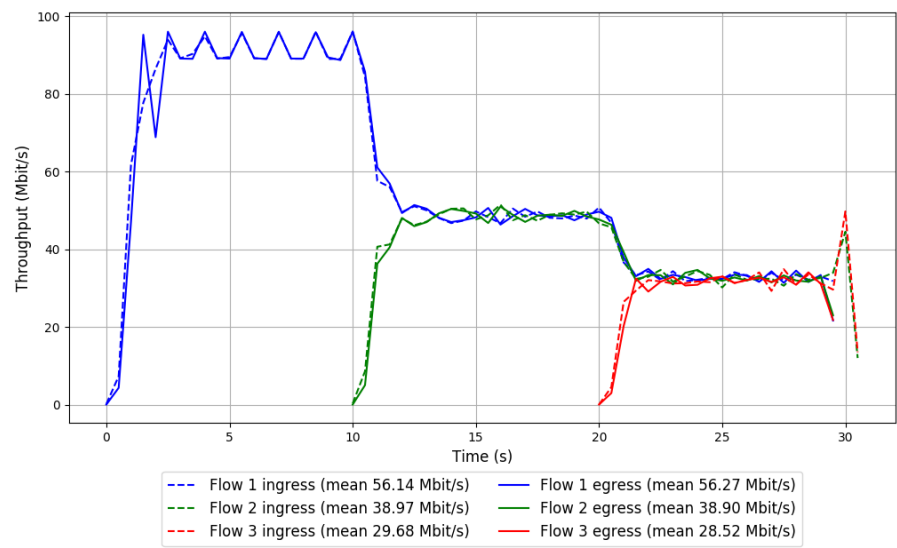
-- Flow 3:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 114.436 ms

Loss rate: 12.38%

Run 2: Report of FillP — Data Link

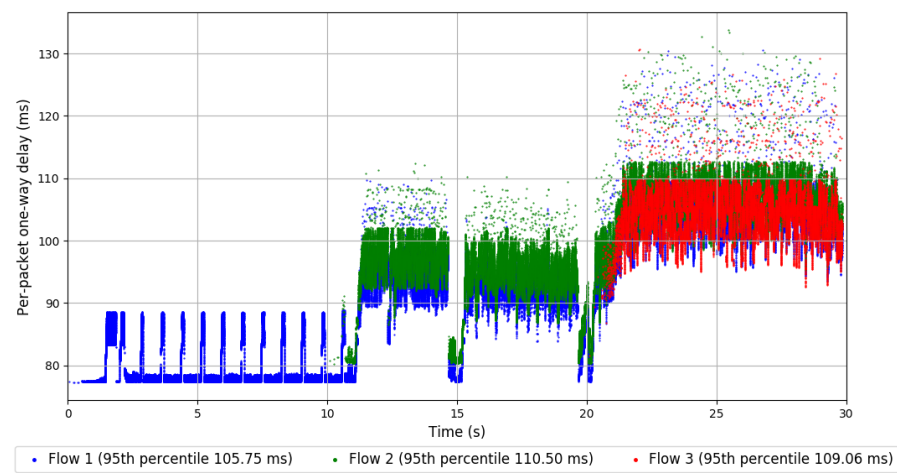
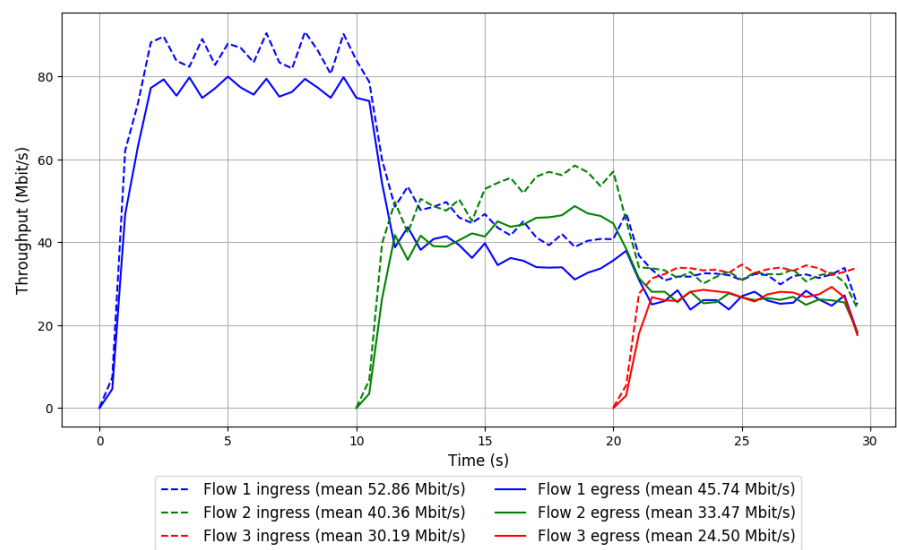


Run 3: Statistics of FillP

Start at: 2018-04-03 18:06:42
End at: 2018-04-03 18:07:12
Local clock offset: -6.009 ms
Remote clock offset: 10.589 ms

Below is generated by plot.py at 2018-04-04 01:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.94 Mbit/s
95th percentile per-packet one-way delay: 108.477 ms
Loss rate: 15.87%
-- Flow 1:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 105.755 ms
Loss rate: 14.00%
-- Flow 2:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 110.499 ms
Loss rate: 17.82%
-- Flow 3:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 109.058 ms
Loss rate: 20.50%

Run 3: Report of FillP — Data Link

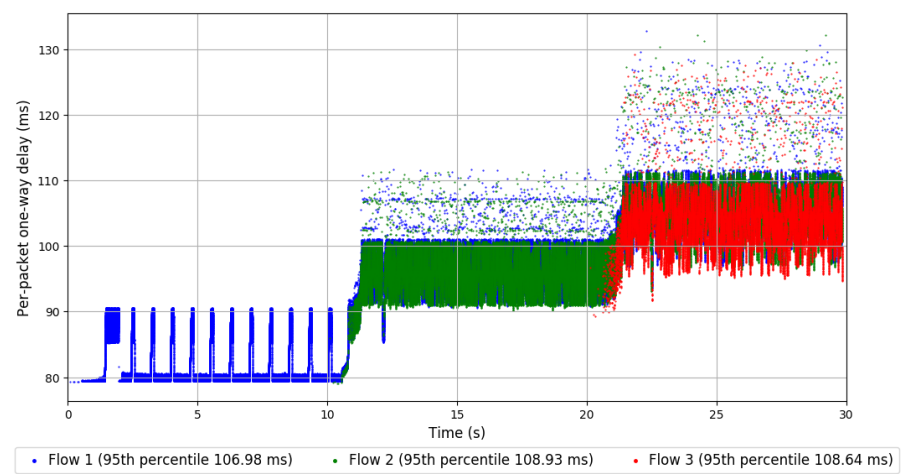
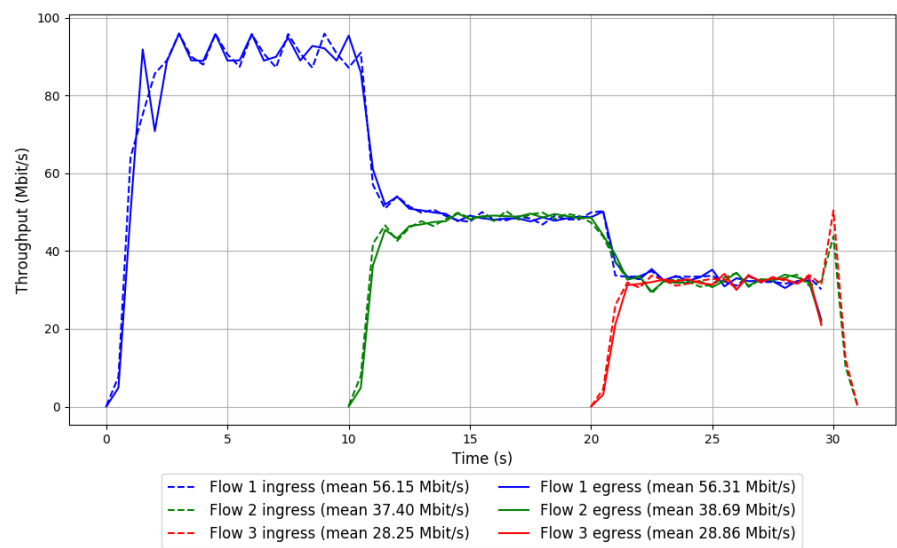


Run 4: Statistics of FillP

Start at: 2018-04-03 18:30:28
End at: 2018-04-03 18:30:58
Local clock offset: -3.896 ms
Remote clock offset: 10.039 ms

Below is generated by plot.py at 2018-04-04 01:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 107.998 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 106.982 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 108.933 ms
Loss rate: 4.45%
-- Flow 3:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 108.636 ms
Loss rate: 12.48%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-03 18:54:15

End at: 2018-04-03 18:54:45

Local clock offset: -1.551 ms

Remote clock offset: 9.779 ms

Below is generated by plot.py at 2018-04-04 01:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 109.527 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 56.37 Mbit/s

95th percentile per-packet one-way delay: 107.878 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.46 Mbit/s

95th percentile per-packet one-way delay: 109.553 ms

Loss rate: 3.26%

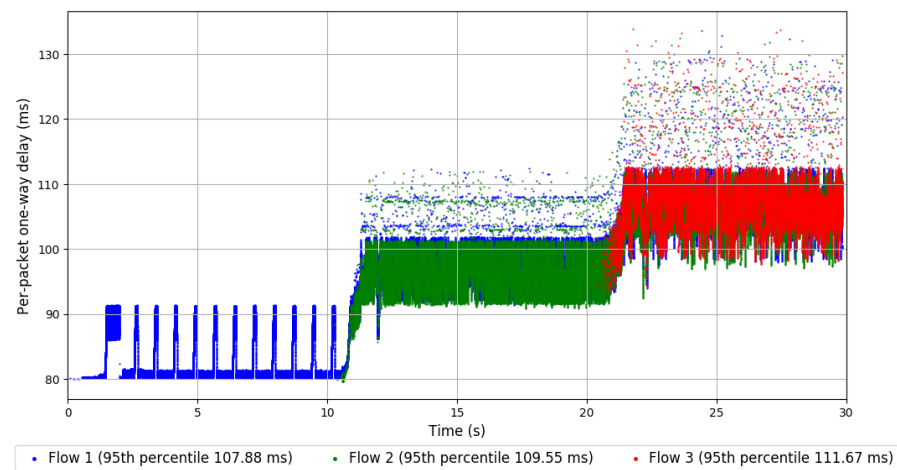
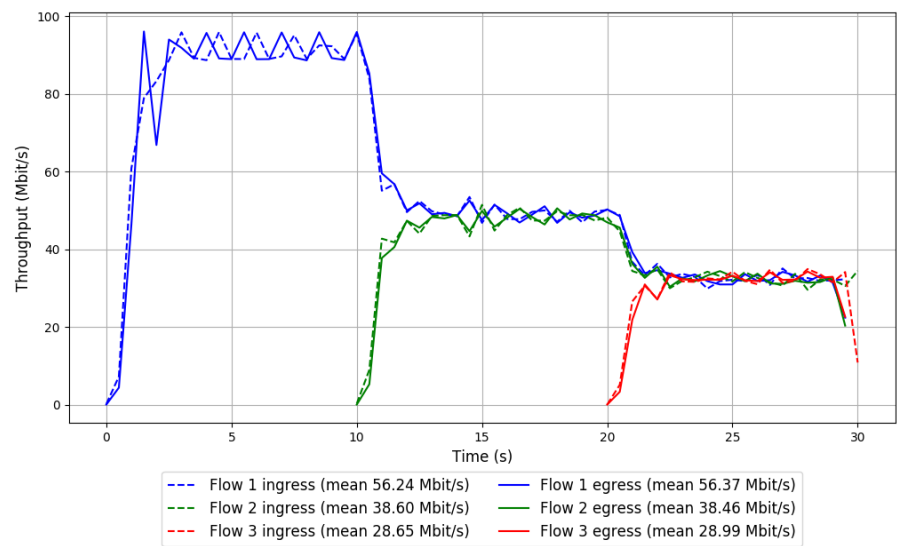
-- Flow 3:

Average throughput: 28.99 Mbit/s

95th percentile per-packet one-way delay: 111.670 ms

Loss rate: 4.85%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-03 19:19:39

End at: 2018-04-03 19:20:09

Local clock offset: -2.728 ms

Remote clock offset: 3.896 ms

Below is generated by plot.py at 2018-04-04 01:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 114.522 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 113.521 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 38.81 Mbit/s

95th percentile per-packet one-way delay: 115.385 ms

Loss rate: 3.44%

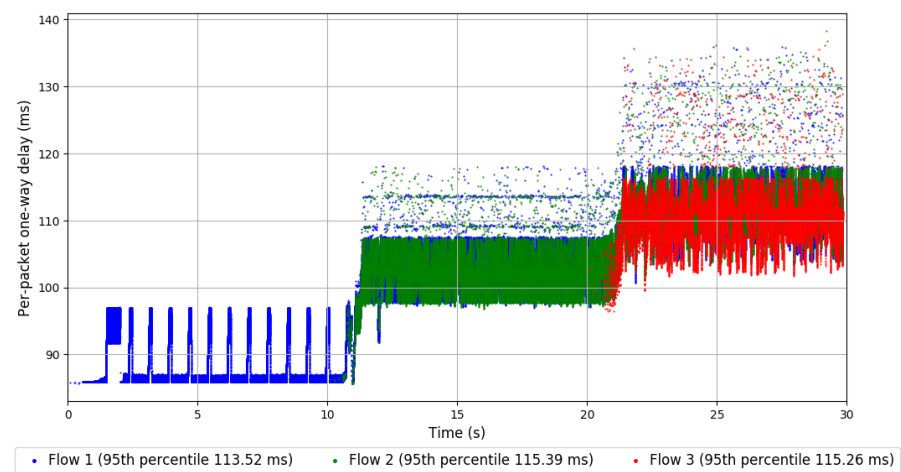
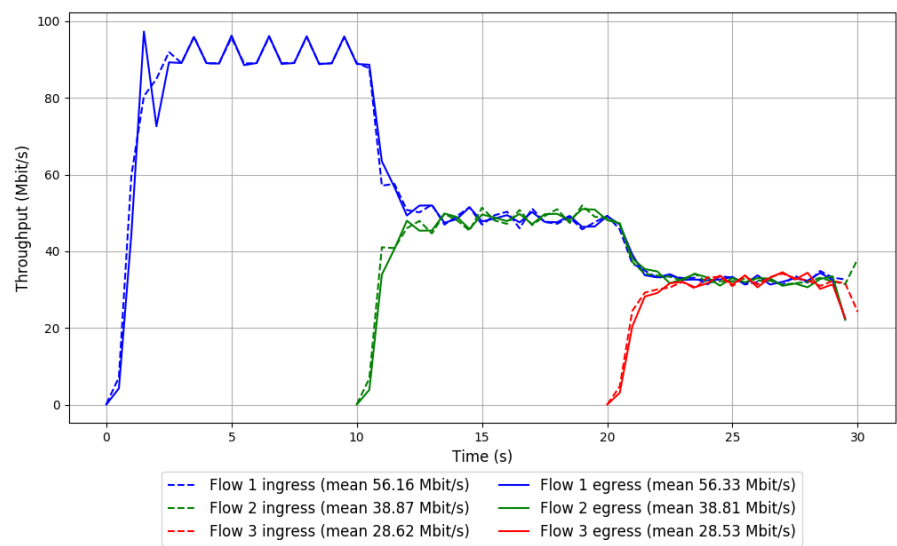
-- Flow 3:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 115.263 ms

Loss rate: 6.83%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-03 19:43:36

End at: 2018-04-03 19:44:06

Local clock offset: -2.984 ms

Remote clock offset: 6.722 ms

Below is generated by plot.py at 2018-04-04 01:21:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 113.141 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 56.34 Mbit/s

95th percentile per-packet one-way delay: 111.891 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 113.407 ms

Loss rate: 4.76%

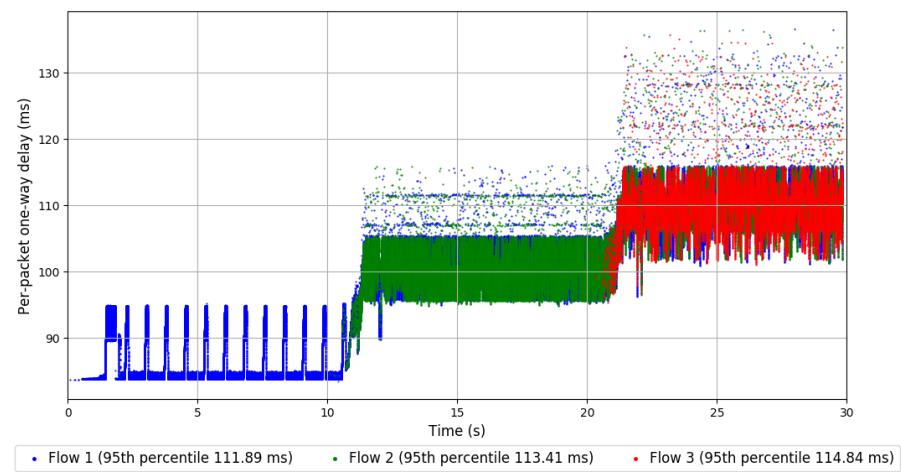
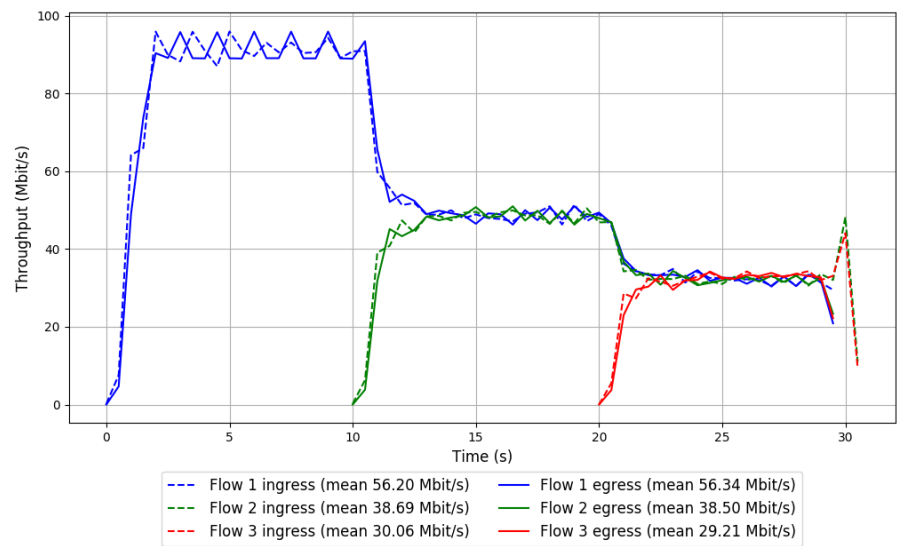
-- Flow 3:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 114.836 ms

Loss rate: 11.20%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-03 20:07:25

End at: 2018-04-03 20:07:55

Local clock offset: -3.471 ms

Remote clock offset: 6.964 ms

Below is generated by plot.py at 2018-04-04 01:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 113.183 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 112.487 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 38.53 Mbit/s

95th percentile per-packet one-way delay: 111.578 ms

Loss rate: 6.06%

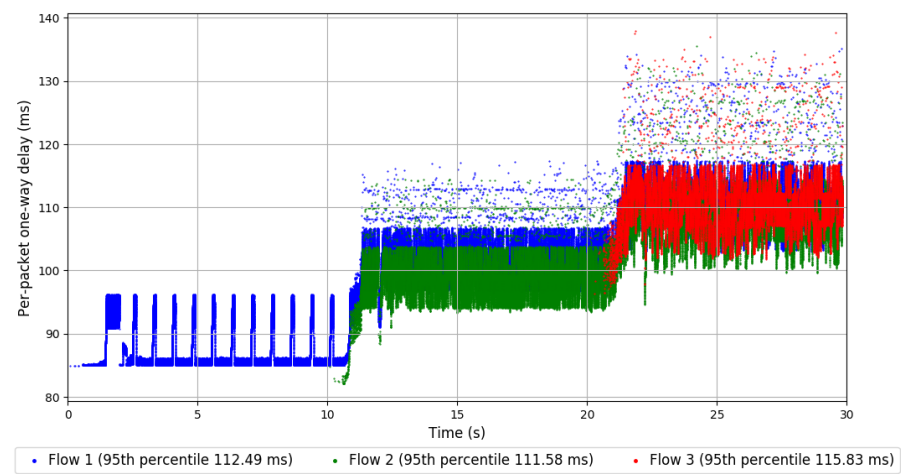
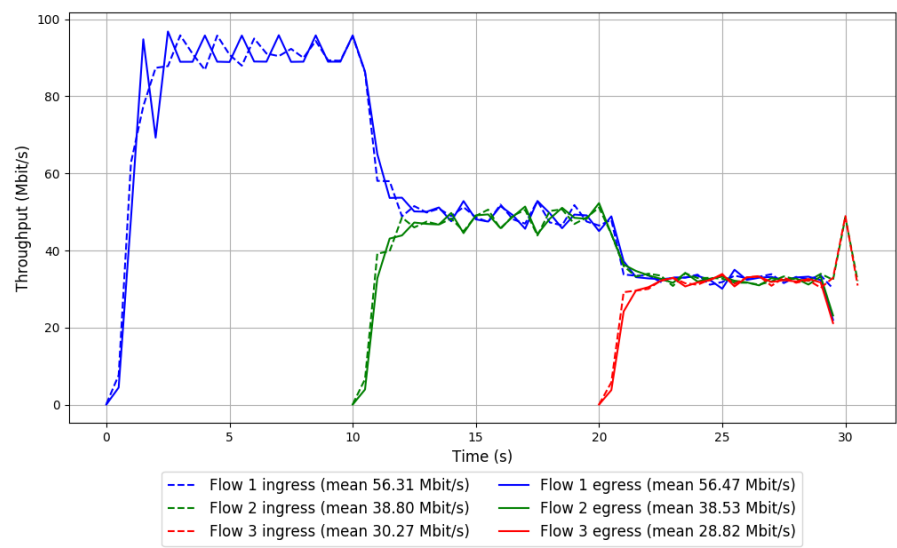
-- Flow 3:

Average throughput: 28.82 Mbit/s

95th percentile per-packet one-way delay: 115.830 ms

Loss rate: 14.73%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-03 20:31:15

End at: 2018-04-03 20:31:45

Local clock offset: -4.68 ms

Remote clock offset: 9.938 ms

Below is generated by plot.py at 2018-04-04 01:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.18 Mbit/s

95th percentile per-packet one-way delay: 99.825 ms

Loss rate: 13.71%

-- Flow 1:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 97.492 ms

Loss rate: 12.21%

-- Flow 2:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 99.052 ms

Loss rate: 13.19%

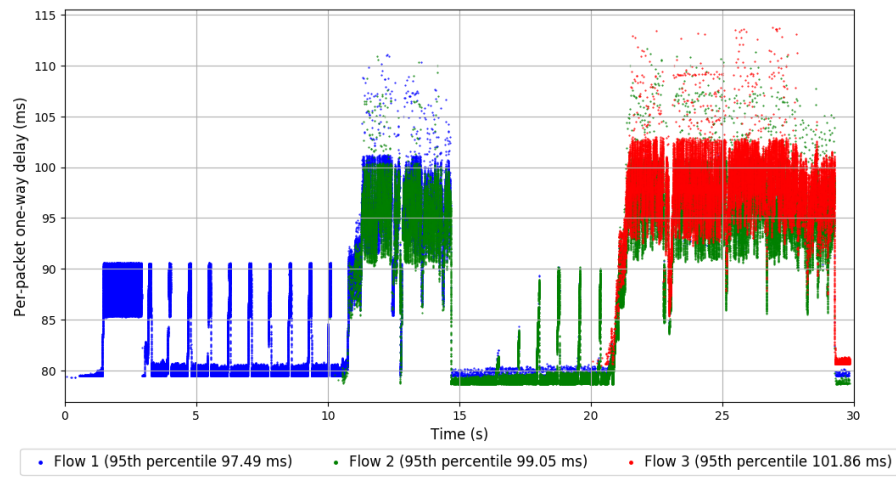
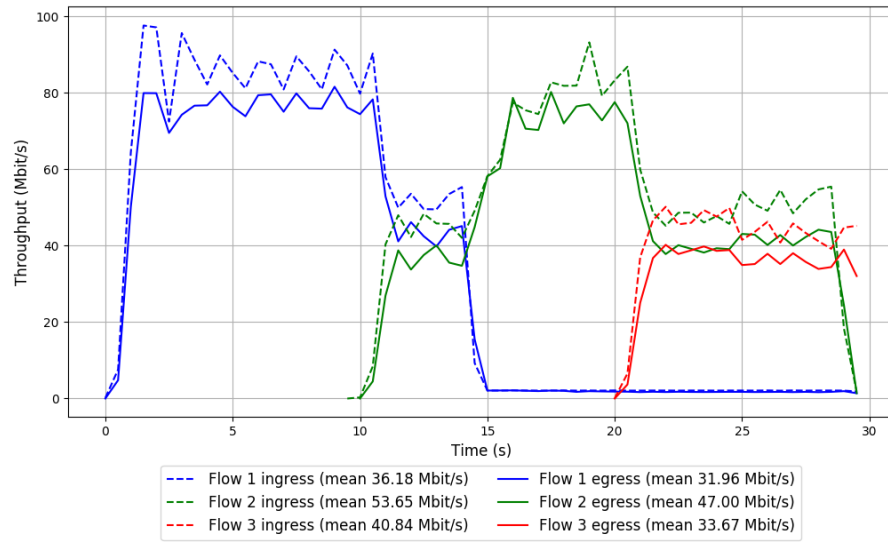
-- Flow 3:

Average throughput: 33.67 Mbit/s

95th percentile per-packet one-way delay: 101.864 ms

Loss rate: 19.06%

Run 9: Report of FillP — Data Link

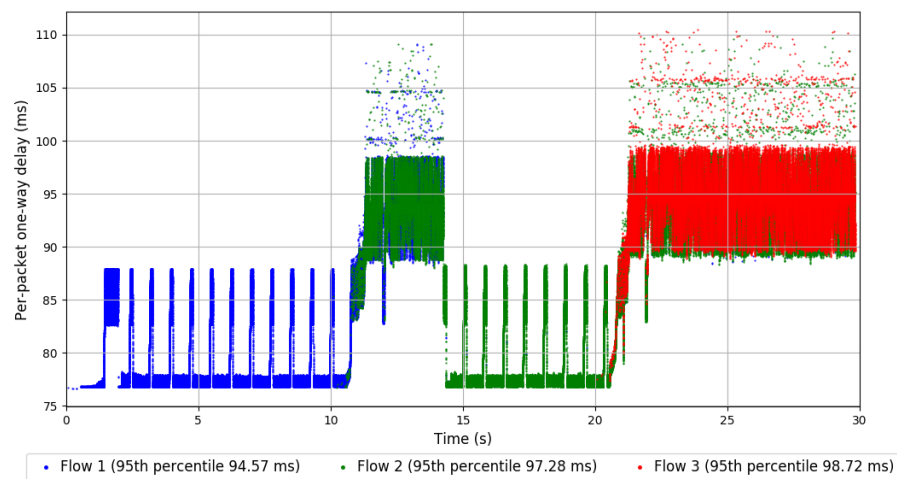
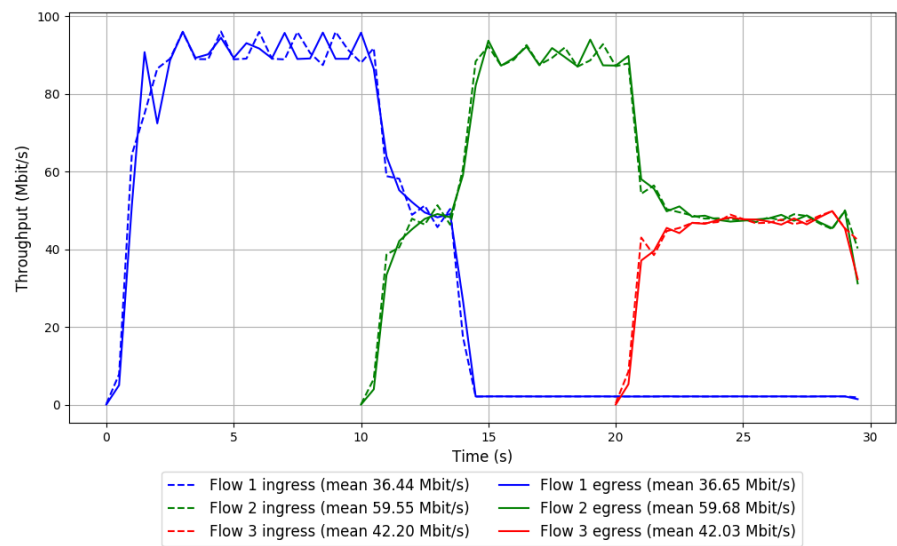


Run 10: Statistics of FillP

Start at: 2018-04-03 20:55:23
End at: 2018-04-03 20:55:53
Local clock offset: -6.996 ms
Remote clock offset: 12.314 ms

Below is generated by plot.py at 2018-04-04 01:21:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 97.366 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 94.570 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 97.281 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 98.721 ms
Loss rate: 2.29%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-04-03 17:00:26

End at: 2018-04-03 17:00:56

Local clock offset: -6.842 ms

Remote clock offset: 7.036 ms

Below is generated by plot.py at 2018-04-04 01:21:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 108.615 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 71.00 Mbit/s

95th percentile per-packet one-way delay: 108.701 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 22.02 Mbit/s

95th percentile per-packet one-way delay: 106.344 ms

Loss rate: 0.76%

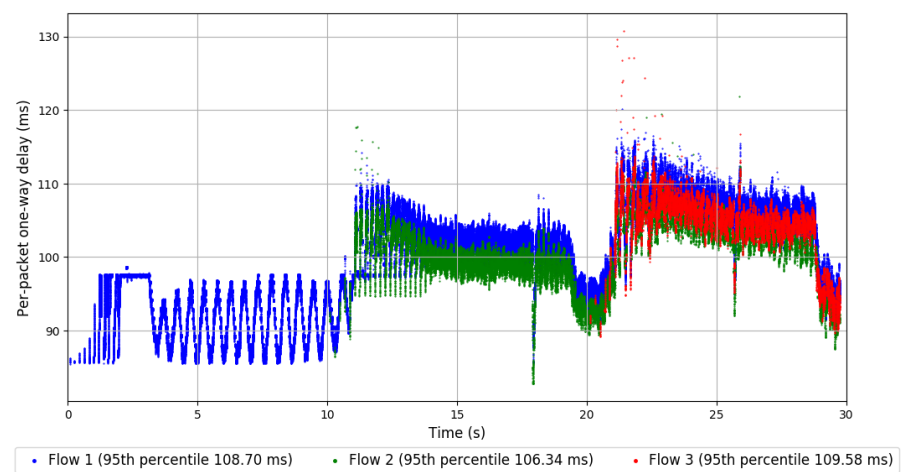
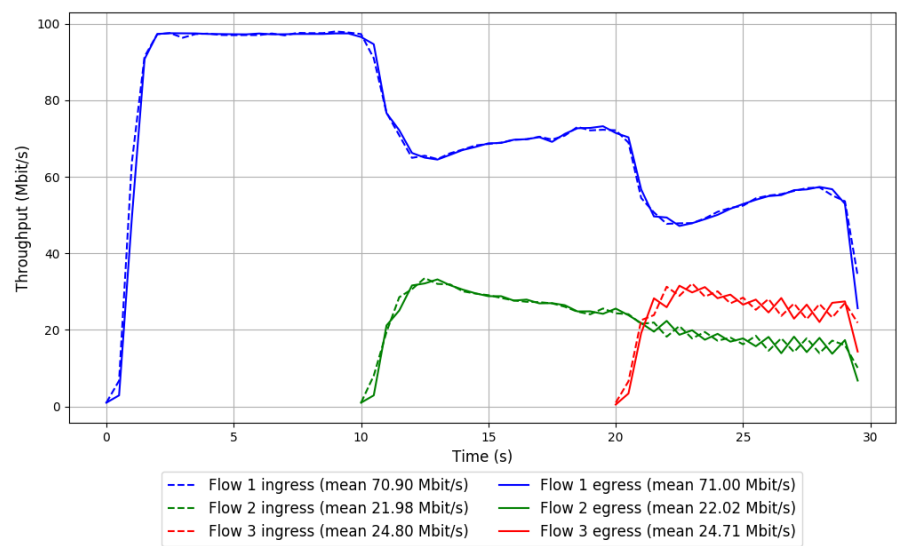
-- Flow 3:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 109.575 ms

Loss rate: 2.25%

Run 1: Report of Indigo-1-32 — Data Link

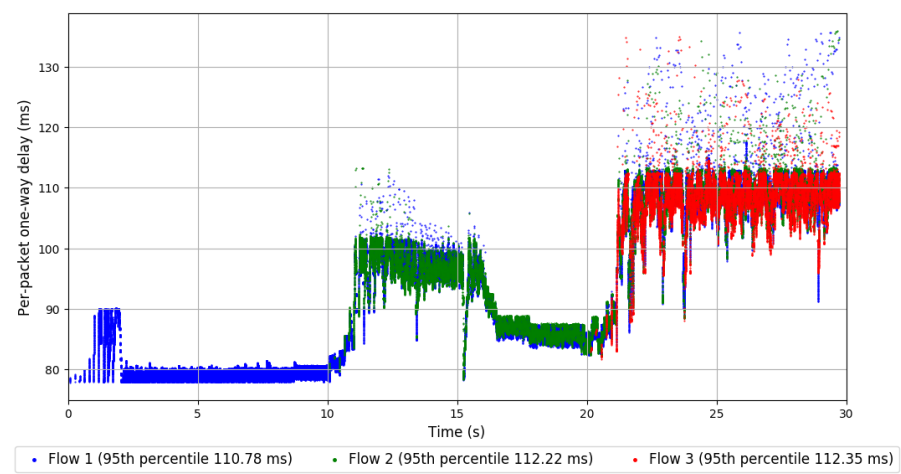
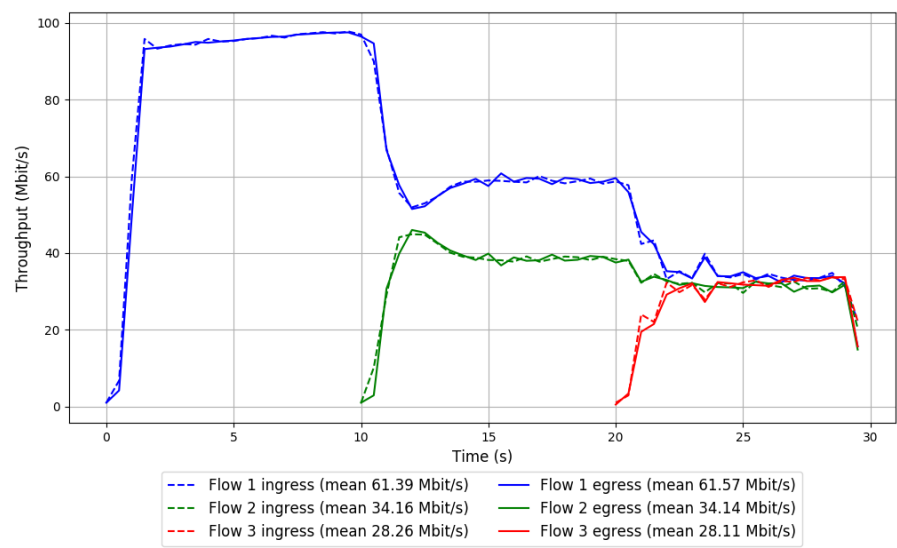


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 17:24:21
End at: 2018-04-03 17:24:51
Local clock offset: -3.87 ms
Remote clock offset: 12.411 ms

Below is generated by plot.py at 2018-04-04 01:22:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 111.773 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 110.780 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 34.14 Mbit/s
95th percentile per-packet one-way delay: 112.224 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 28.11 Mbit/s
95th percentile per-packet one-way delay: 112.350 ms
Loss rate: 2.43%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 17:48:11

End at: 2018-04-03 17:48:41

Local clock offset: -2.632 ms

Remote clock offset: 6.044 ms

Below is generated by plot.py at 2018-04-04 01:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.39 Mbit/s

95th percentile per-packet one-way delay: 114.982 ms

Loss rate: 15.82%

-- Flow 1:

Average throughput: 54.00 Mbit/s

95th percentile per-packet one-way delay: 112.883 ms

Loss rate: 12.82%

-- Flow 2:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 116.605 ms

Loss rate: 23.70%

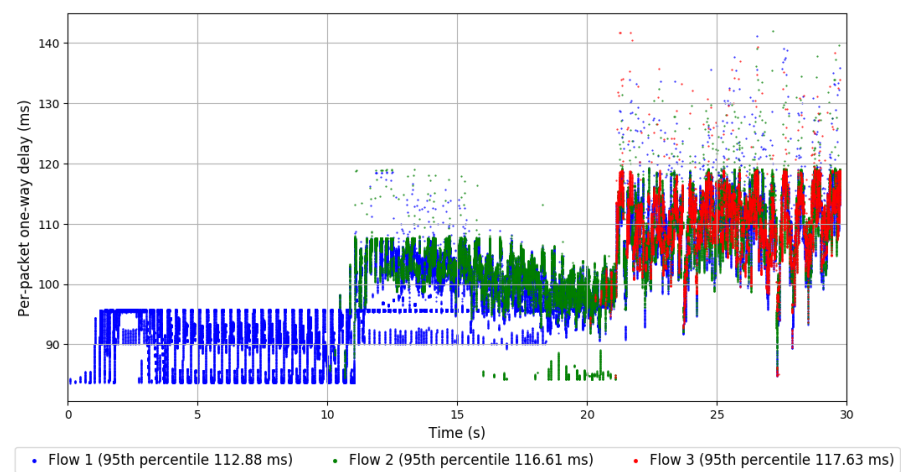
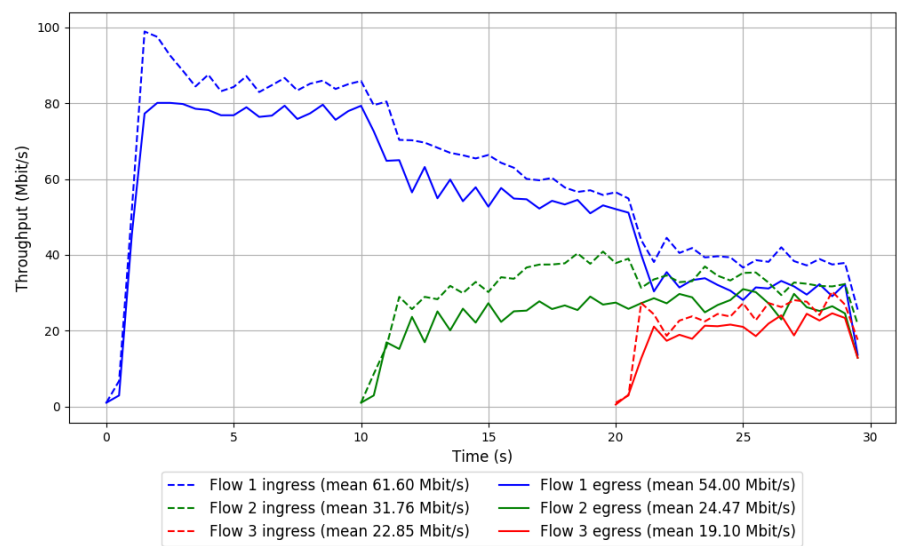
-- Flow 3:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 117.631 ms

Loss rate: 18.20%

Run 3: Report of Indigo-1-32 — Data Link

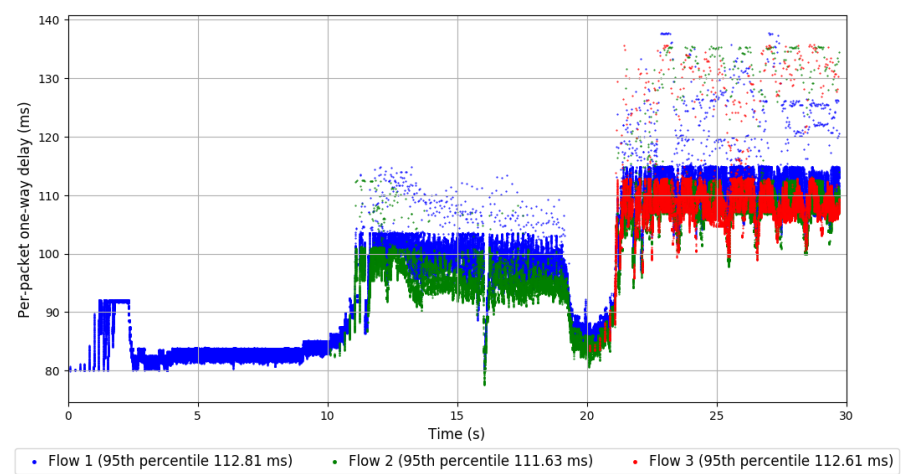
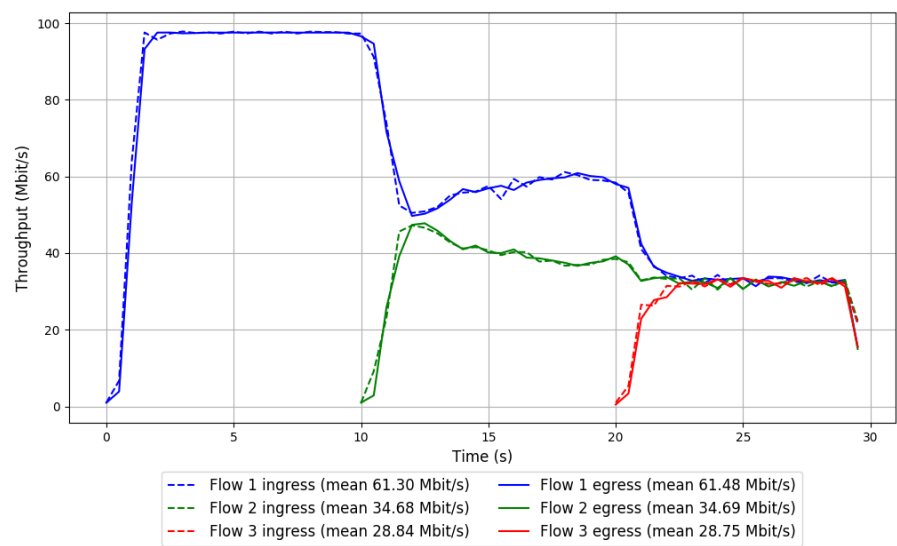


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-03 18:11:59
End at: 2018-04-03 18:12:29
Local clock offset: -6.338 ms
Remote clock offset: 10.464 ms

Below is generated by plot.py at 2018-04-04 01:22:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 112.382 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 112.814 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 111.632 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 112.614 ms
Loss rate: 2.38%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-03 18:35:47

End at: 2018-04-03 18:36:17

Local clock offset: -3.058 ms

Remote clock offset: 4.098 ms

Below is generated by plot.py at 2018-04-04 01:23:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 118.287 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 62.74 Mbit/s

95th percentile per-packet one-way delay: 118.043 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 119.009 ms

Loss rate: 0.89%

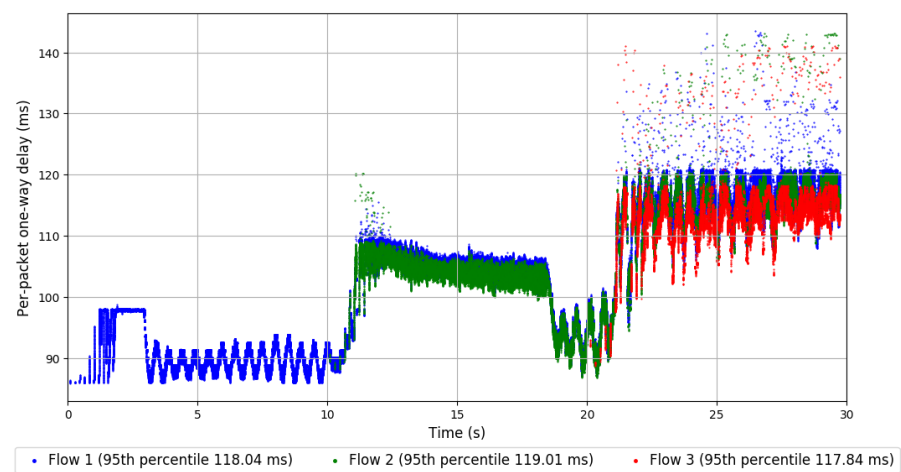
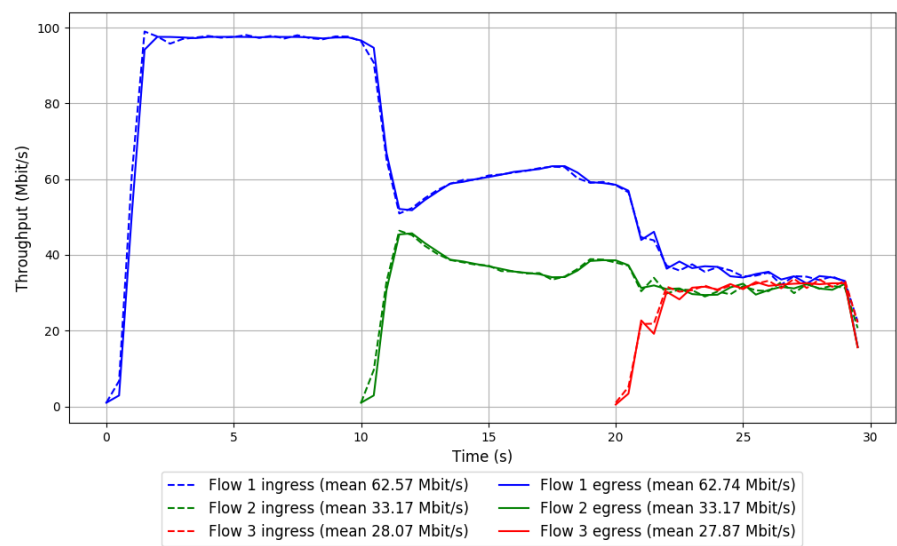
-- Flow 3:

Average throughput: 27.87 Mbit/s

95th percentile per-packet one-way delay: 117.844 ms

Loss rate: 2.60%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-03 18:59:33

End at: 2018-04-03 19:00:03

Local clock offset: -2.13 ms

Remote clock offset: 5.185 ms

Below is generated by plot.py at 2018-04-04 01:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 118.921 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 59.27 Mbit/s

95th percentile per-packet one-way delay: 118.001 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 38.06 Mbit/s

95th percentile per-packet one-way delay: 119.146 ms

Loss rate: 1.00%

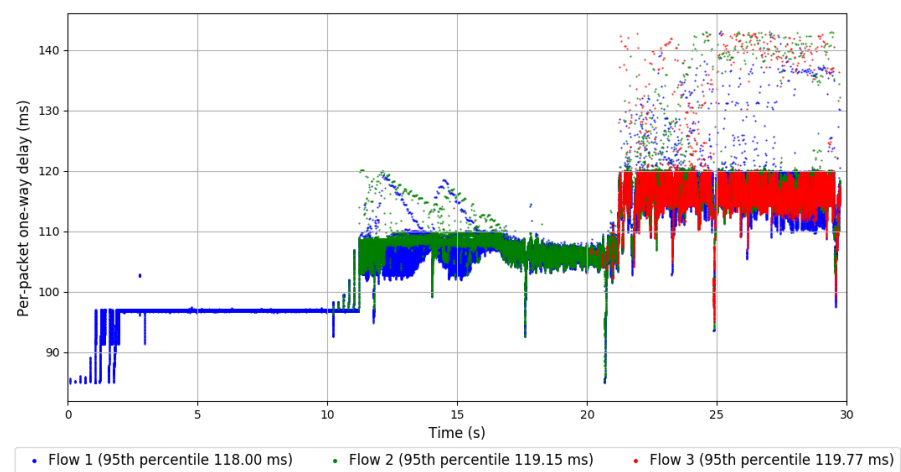
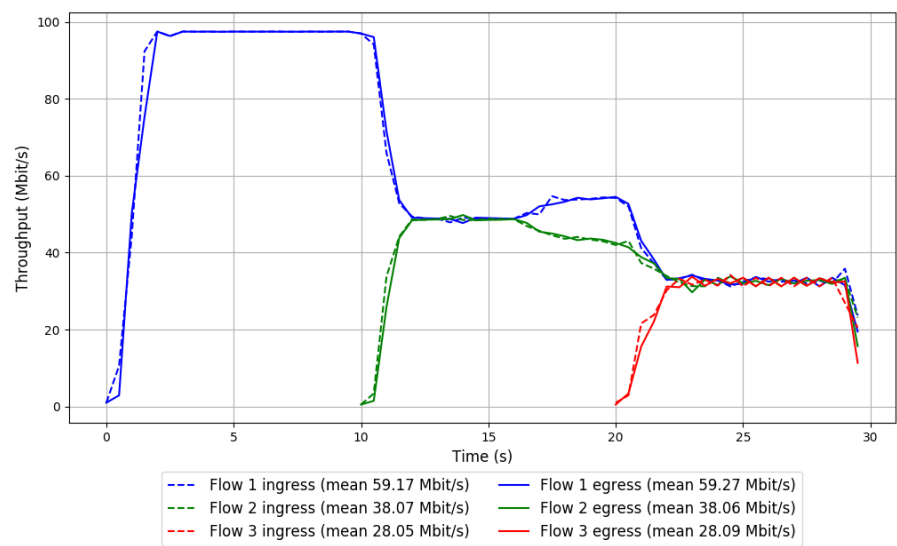
-- Flow 3:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 119.768 ms

Loss rate: 2.10%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-03 19:24:57

End at: 2018-04-03 19:25:27

Local clock offset: -2.667 ms

Remote clock offset: 9.376 ms

Below is generated by plot.py at 2018-04-04 01:23:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 113.529 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 64.36 Mbit/s

95th percentile per-packet one-way delay: 113.493 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 114.073 ms

Loss rate: 1.12%

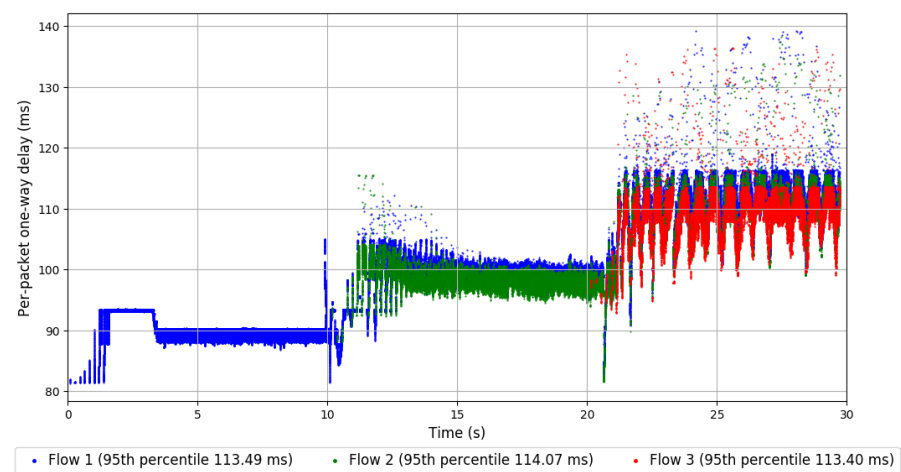
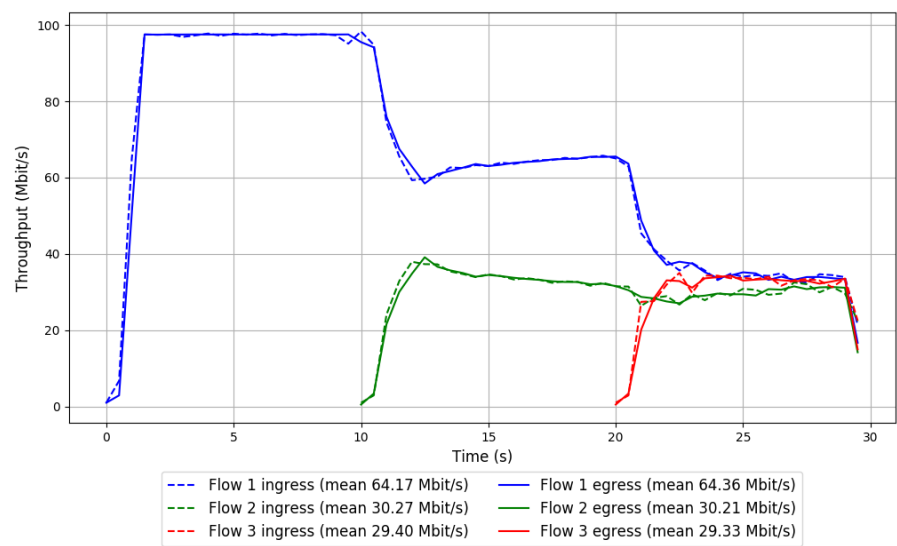
-- Flow 3:

Average throughput: 29.33 Mbit/s

95th percentile per-packet one-way delay: 113.402 ms

Loss rate: 2.48%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-03 19:48:55

End at: 2018-04-03 19:49:25

Local clock offset: -2.962 ms

Remote clock offset: 5.814 ms

Below is generated by plot.py at 2018-04-04 01:23:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 111.836 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 68.34 Mbit/s

95th percentile per-packet one-way delay: 111.150 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 112.290 ms

Loss rate: 0.74%

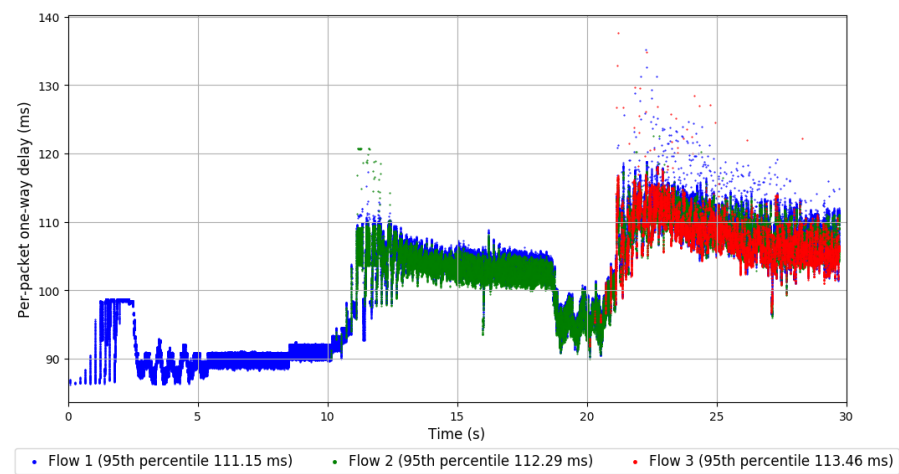
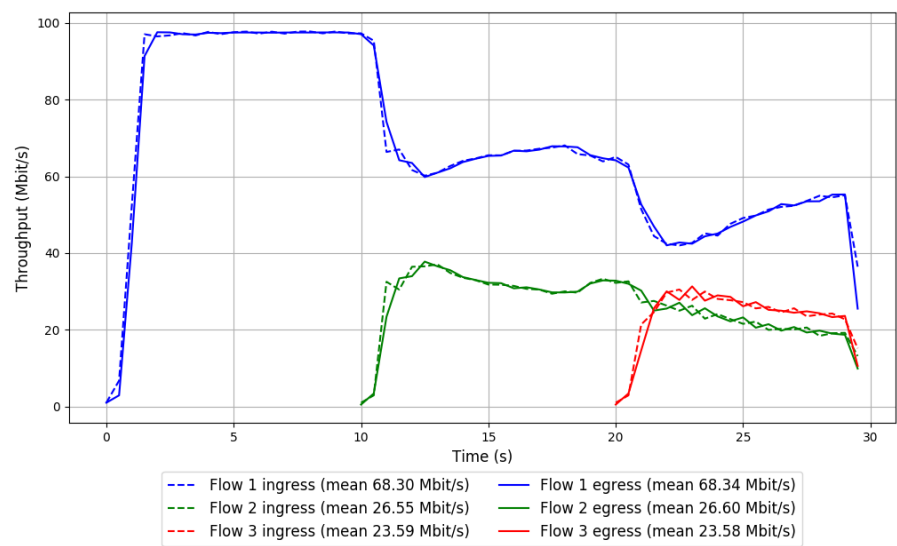
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 113.462 ms

Loss rate: 1.98%

Run 8: Report of Indigo-1-32 — Data Link

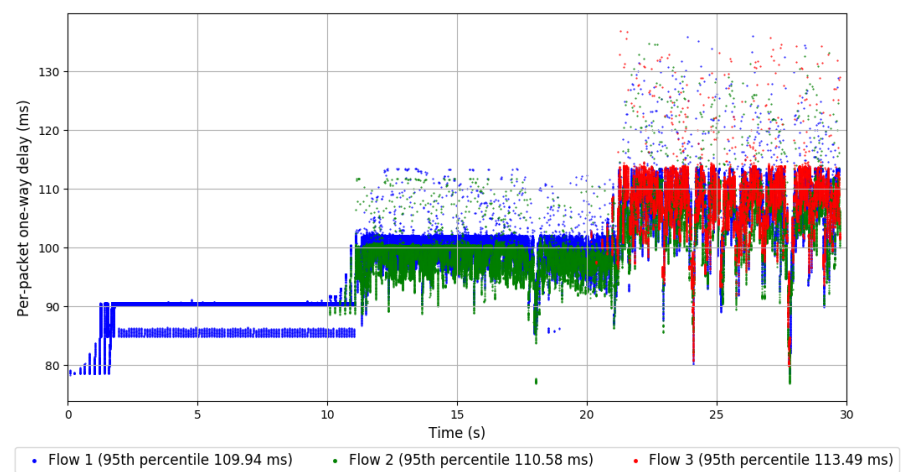
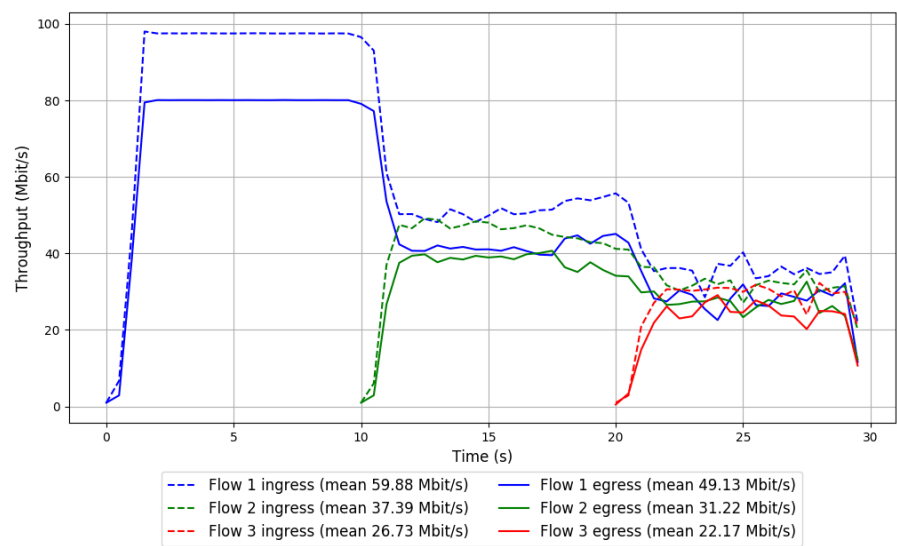


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-03 20:12:43
End at: 2018-04-03 20:13:13
Local clock offset: -3.997 ms
Remote clock offset: 12.361 ms

Below is generated by plot.py at 2018-04-04 01:23:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 111.232 ms
Loss rate: 18.27%
-- Flow 1:
Average throughput: 49.13 Mbit/s
95th percentile per-packet one-way delay: 109.938 ms
Loss rate: 18.58%
-- Flow 2:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 110.583 ms
Loss rate: 17.30%
-- Flow 3:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 113.488 ms
Loss rate: 18.92%

Run 9: Report of Indigo-1-32 — Data Link

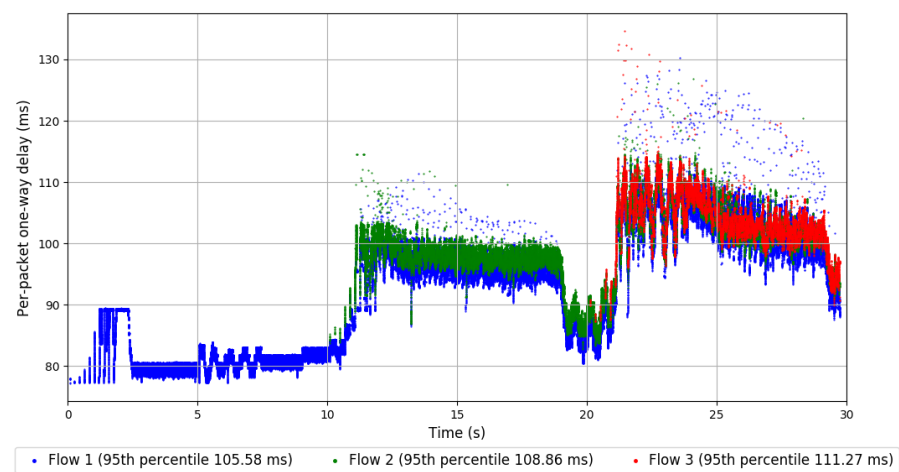
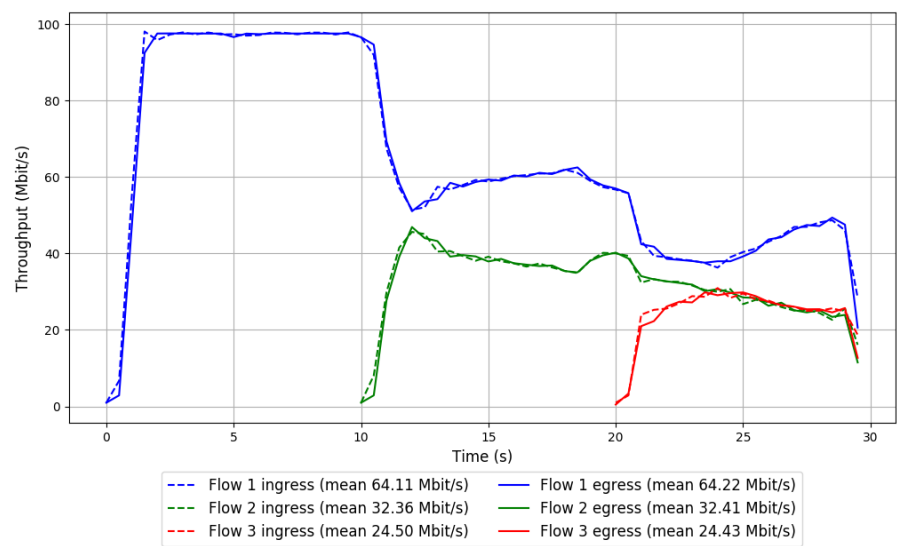


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-03 20:36:44
End at: 2018-04-03 20:37:14
Local clock offset: -4.782 ms
Remote clock offset: 11.023 ms

Below is generated by plot.py at 2018-04-04 01:23:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 107.603 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 105.578 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 32.41 Mbit/s
95th percentile per-packet one-way delay: 108.859 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 111.267 ms
Loss rate: 2.22%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-04-03 17:07:07

End at: 2018-04-03 17:07:37

Local clock offset: -7.349 ms

Remote clock offset: 6.263 ms

Below is generated by plot.py at 2018-04-04 01:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 97.745 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 67.68 Mbit/s

95th percentile per-packet one-way delay: 97.781 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 13.72 Mbit/s

95th percentile per-packet one-way delay: 92.708 ms

Loss rate: 1.50%

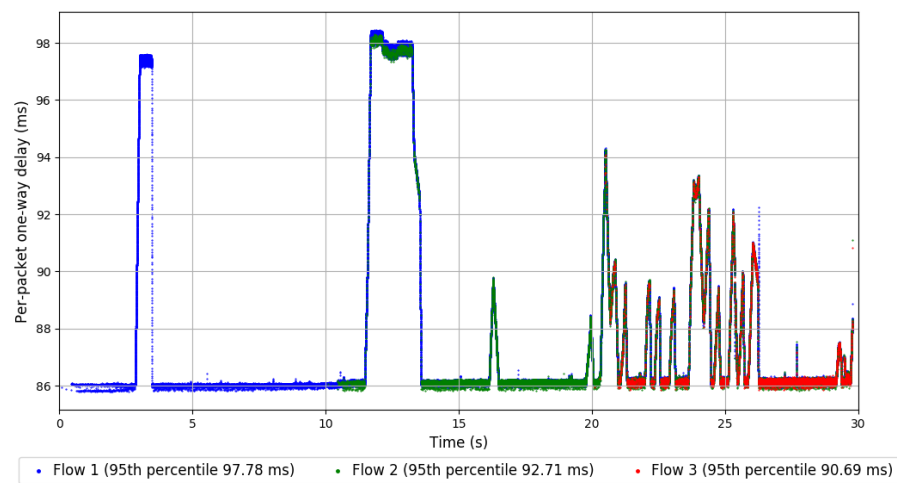
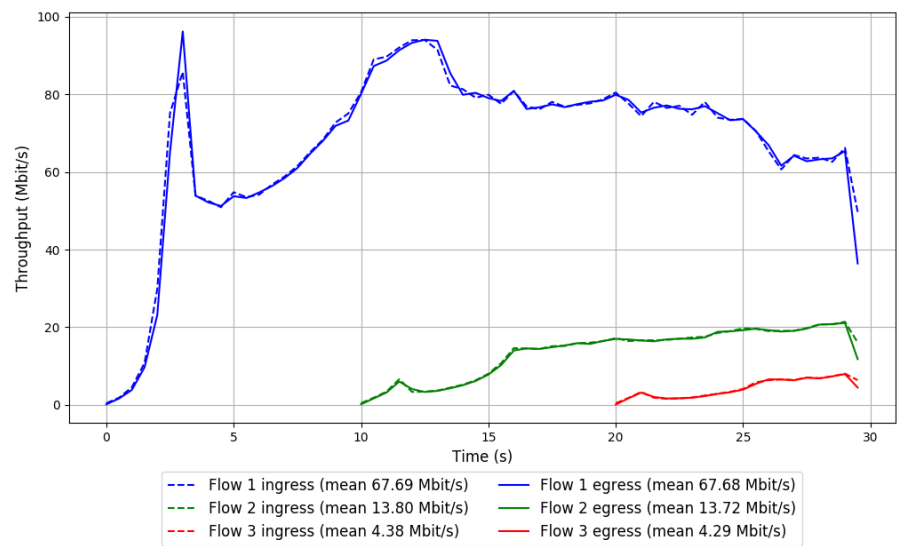
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 90.691 ms

Loss rate: 3.79%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-03 17:31:05

End at: 2018-04-03 17:31:35

Local clock offset: -2.994 ms

Remote clock offset: 6.741 ms

Below is generated by plot.py at 2018-04-04 01:23:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 109.027 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 62.61 Mbit/s

95th percentile per-packet one-way delay: 105.814 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 111.100 ms

Loss rate: 2.10%

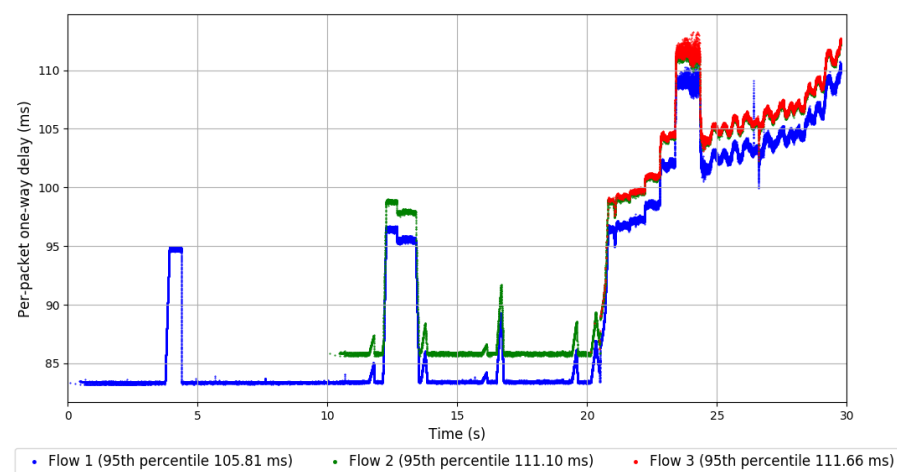
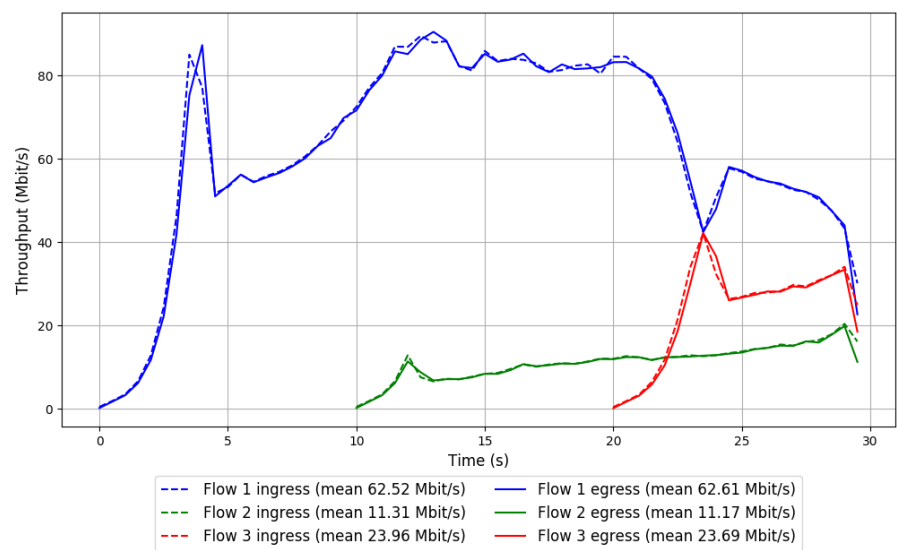
-- Flow 3:

Average throughput: 23.69 Mbit/s

95th percentile per-packet one-way delay: 111.660 ms

Loss rate: 2.96%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 17:54:54

End at: 2018-04-03 17:55:24

Local clock offset: -4.595 ms

Remote clock offset: 5.314 ms

Below is generated by plot.py at 2018-04-04 01:24:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.02 Mbit/s

95th percentile per-packet one-way delay: 98.906 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 94.765 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 99.128 ms

Loss rate: 1.32%

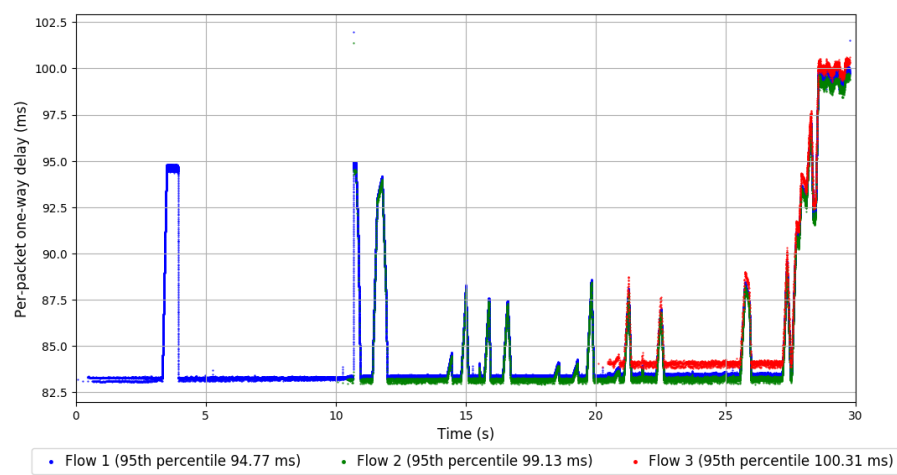
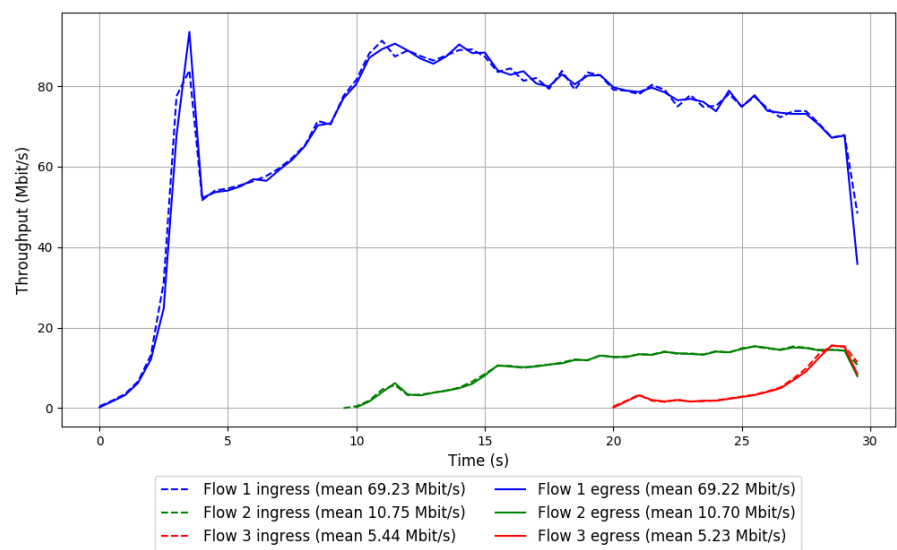
-- Flow 3:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 100.306 ms

Loss rate: 5.59%

Run 3: Report of Vivace-latency — Data Link

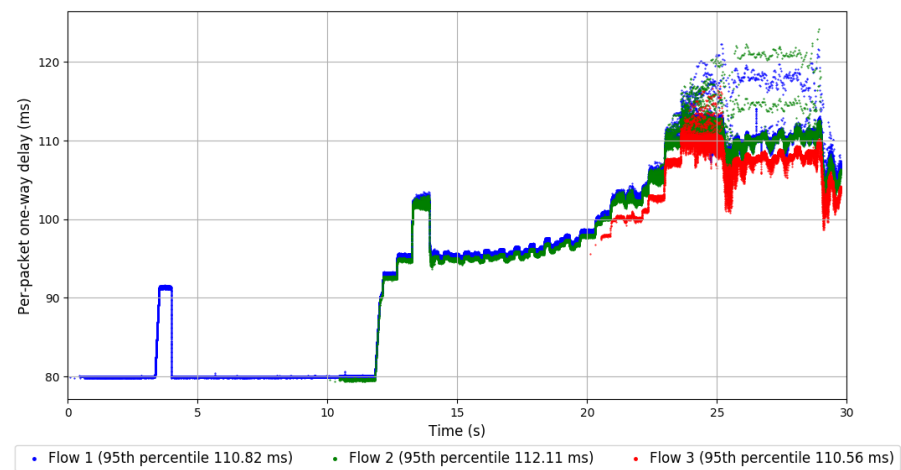
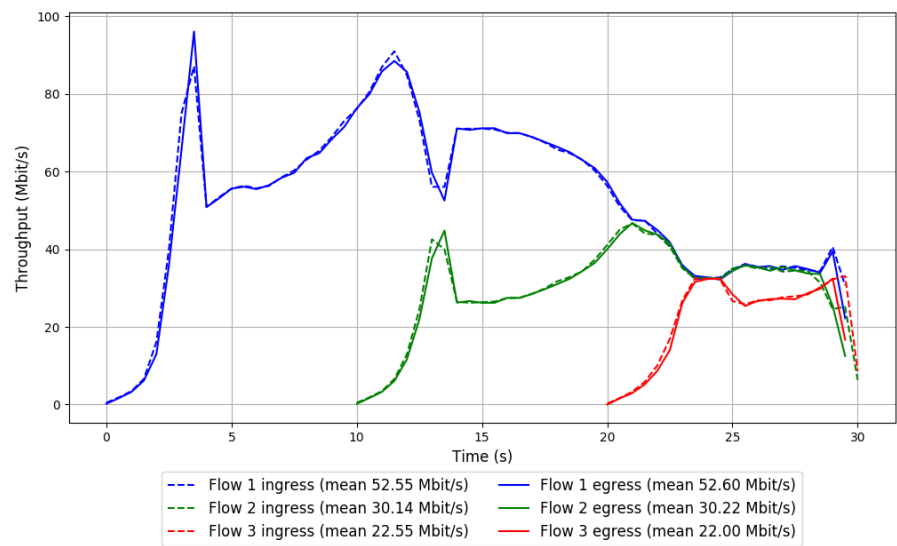


Run 4: Statistics of Vivace-latency

Start at: 2018-04-03 18:18:42
End at: 2018-04-03 18:19:12
Local clock offset: -6.618 ms
Remote clock offset: 10.309 ms

Below is generated by plot.py at 2018-04-04 01:24:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.79 Mbit/s
95th percentile per-packet one-way delay: 111.163 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 110.816 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 30.22 Mbit/s
95th percentile per-packet one-way delay: 112.109 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 110.565 ms
Loss rate: 6.90%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-03 18:42:29

End at: 2018-04-03 18:42:59

Local clock offset: -2.344 ms

Remote clock offset: 3.981 ms

Below is generated by plot.py at 2018-04-04 01:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 105.364 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 65.23 Mbit/s

95th percentile per-packet one-way delay: 104.624 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 106.873 ms

Loss rate: 1.53%

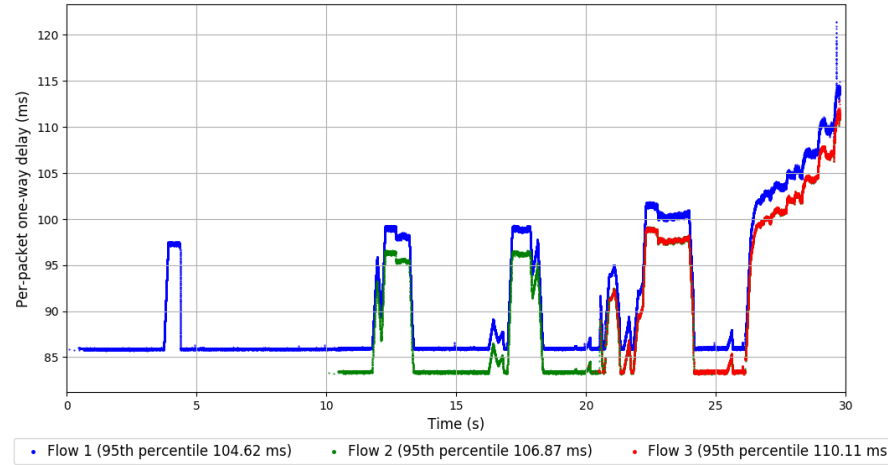
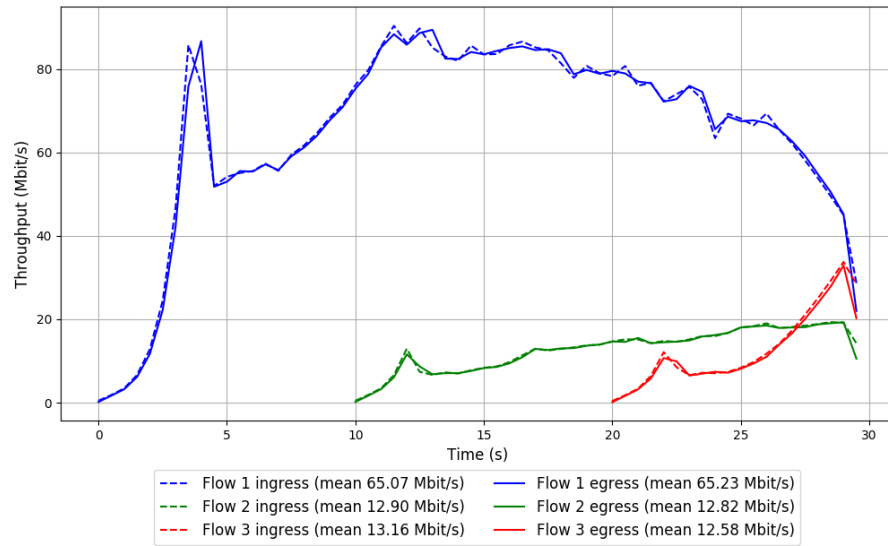
-- Flow 3:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 110.113 ms

Loss rate: 6.19%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-03 19:07:53

End at: 2018-04-03 19:08:23

Local clock offset: -2.737 ms

Remote clock offset: 4.371 ms

Below is generated by plot.py at 2018-04-04 01:24:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 115.437 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 114.222 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 116.088 ms

Loss rate: 1.15%

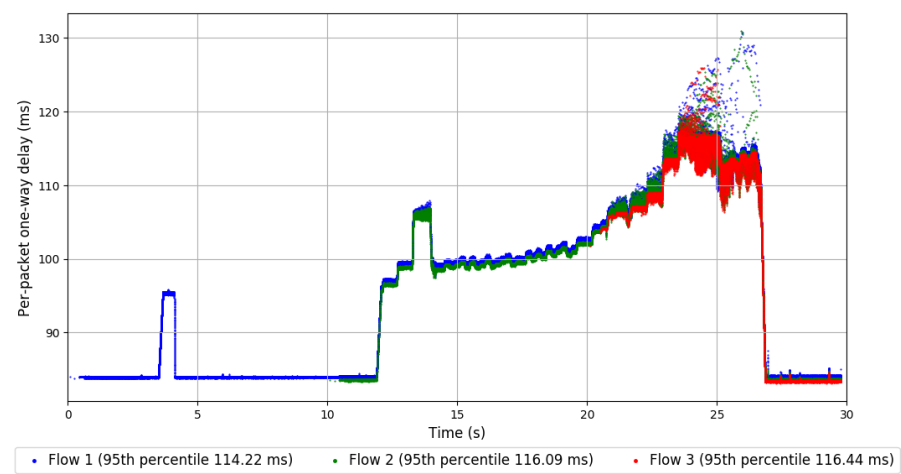
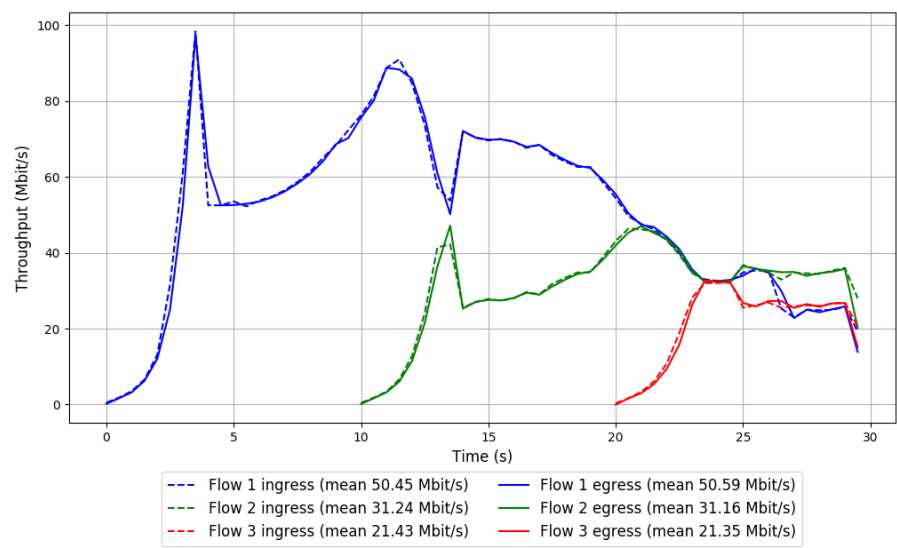
-- Flow 3:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 116.437 ms

Loss rate: 2.35%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-03 19:31:41

End at: 2018-04-03 19:32:11

Local clock offset: -2.723 ms

Remote clock offset: 5.801 ms

Below is generated by plot.py at 2018-04-04 01:24:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 83.950 ms

Loss rate: 2.83%

-- Flow 1:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 83.961 ms

Loss rate: 2.71%

-- Flow 2:

Average throughput: 11.84 Mbit/s

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

Loss rate: 3.40%

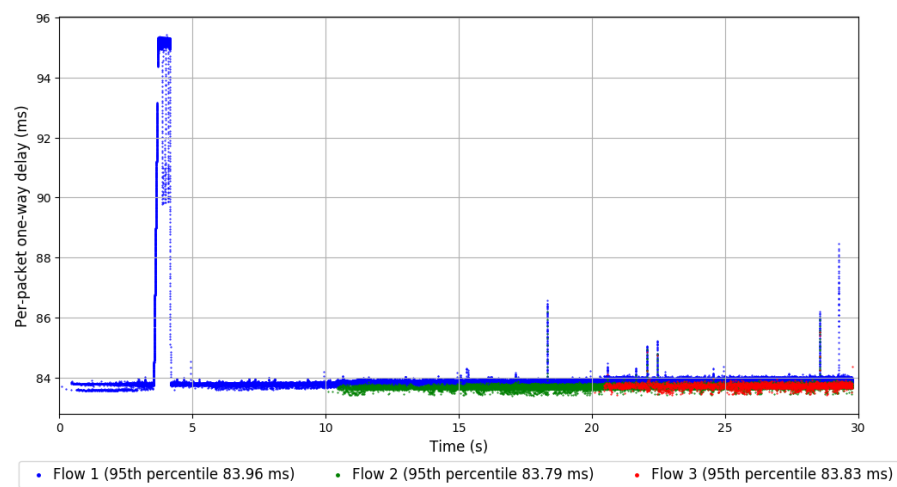
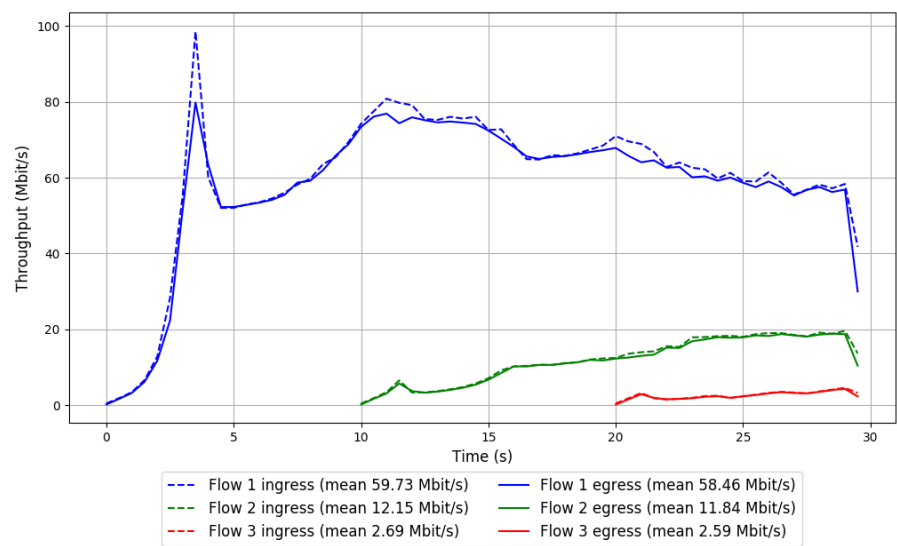
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 83.834 ms

Loss rate: 5.56%

Run 7: Report of Vivace-latency — Data Link

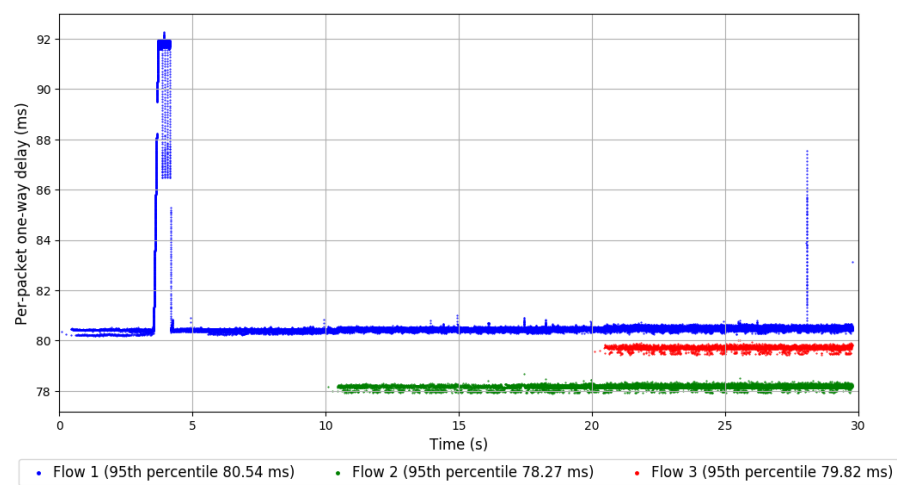
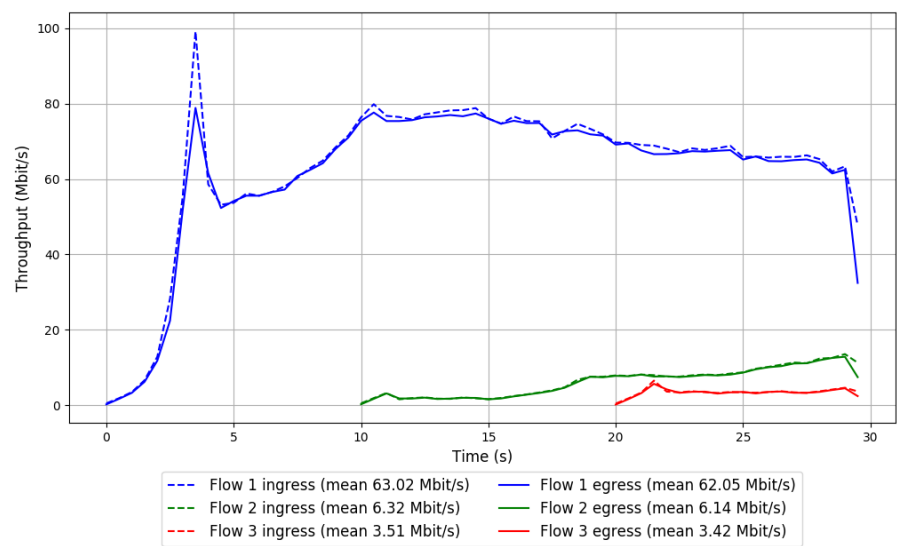


Run 8: Statistics of Vivace-latency

Start at: 2018-04-03 19:55:35
End at: 2018-04-03 19:56:05
Local clock offset: -2.938 ms
Remote clock offset: 12.528 ms

Below is generated by plot.py at 2018-04-04 01:24:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.23 Mbit/s
95th percentile per-packet one-way delay: 80.533 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 62.05 Mbit/s
95th percentile per-packet one-way delay: 80.538 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 78.271 ms
Loss rate: 3.67%
-- Flow 3:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 79.824 ms
Loss rate: 4.43%

Run 8: Report of Vivace-latency — Data Link

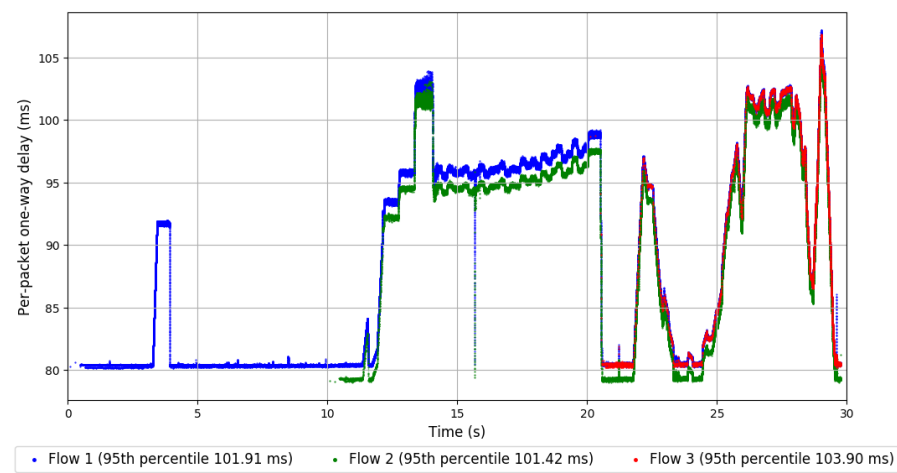
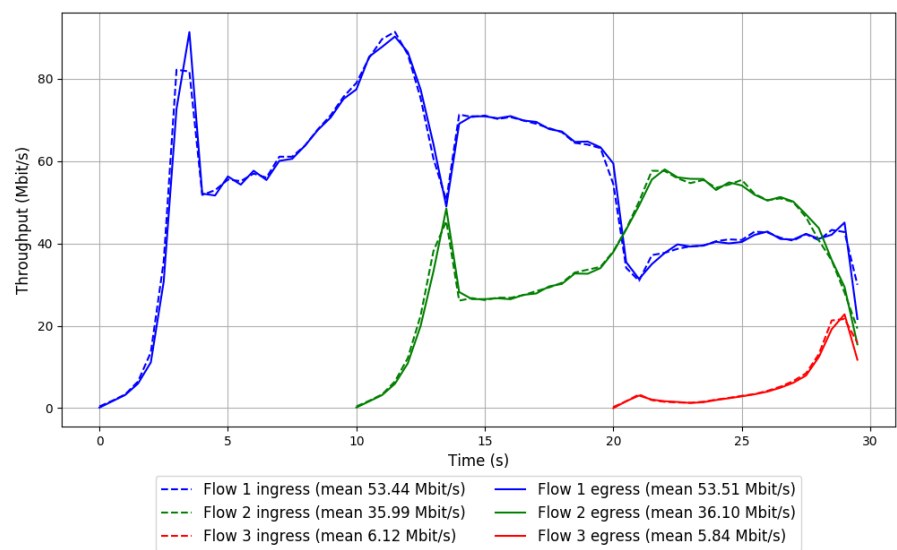


Run 9: Statistics of Vivace-latency

Start at: 2018-04-03 20:19:26
End at: 2018-04-03 20:19:56
Local clock offset: -4.361 ms
Remote clock offset: 11.228 ms

Below is generated by plot.py at 2018-04-04 01:24:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.34 Mbit/s
95th percentile per-packet one-way delay: 101.660 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 53.51 Mbit/s
95th percentile per-packet one-way delay: 101.909 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 36.10 Mbit/s
95th percentile per-packet one-way delay: 101.425 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 103.896 ms
Loss rate: 6.56%

Run 9: Report of Vivace-latency — Data Link

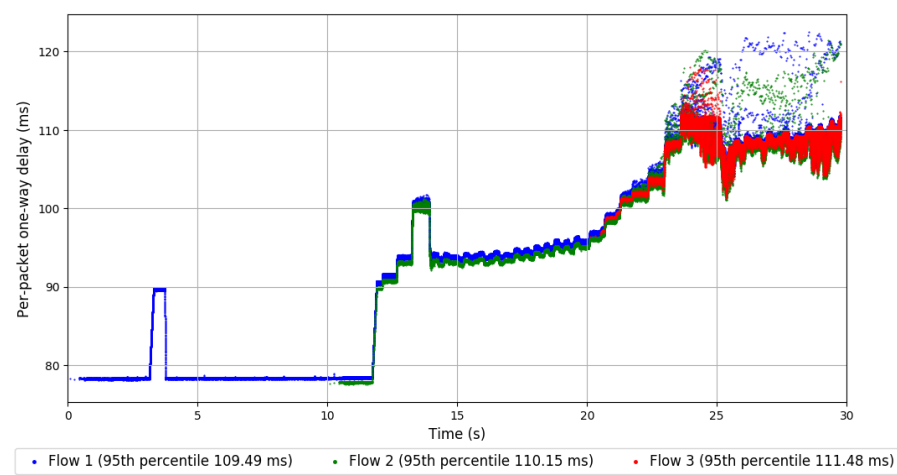
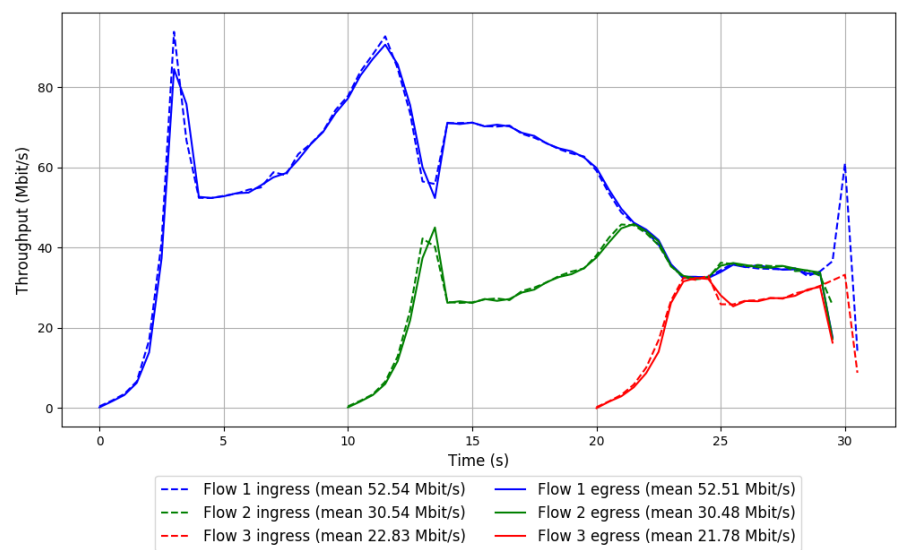


Run 10: Statistics of Vivace-latency

Start at: 2018-04-03 20:43:28
End at: 2018-04-03 20:43:58
Local clock offset: -5.846 ms
Remote clock offset: 11.183 ms

Below is generated by plot.py at 2018-04-04 01:25:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.78 Mbit/s
95th percentile per-packet one-way delay: 110.260 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 52.51 Mbit/s
95th percentile per-packet one-way delay: 109.491 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 30.48 Mbit/s
95th percentile per-packet one-way delay: 110.146 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 21.78 Mbit/s
95th percentile per-packet one-way delay: 111.482 ms
Loss rate: 13.25%

Run 10: Report of Vivace-latency — Data Link

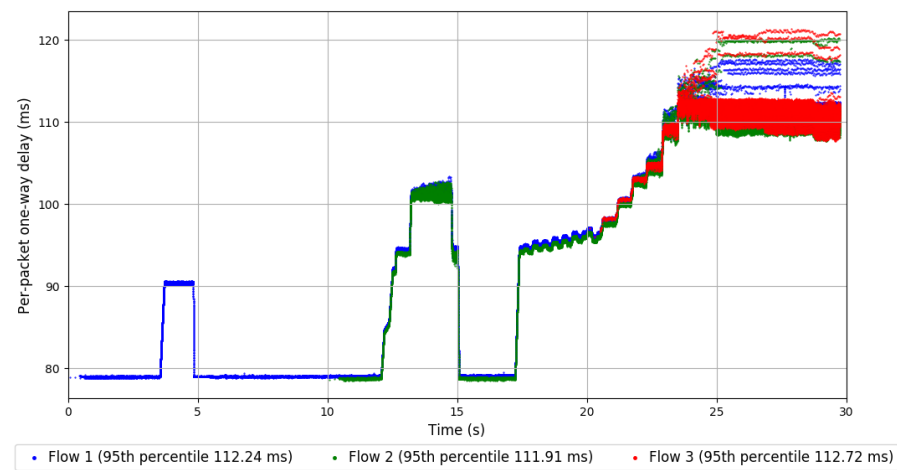
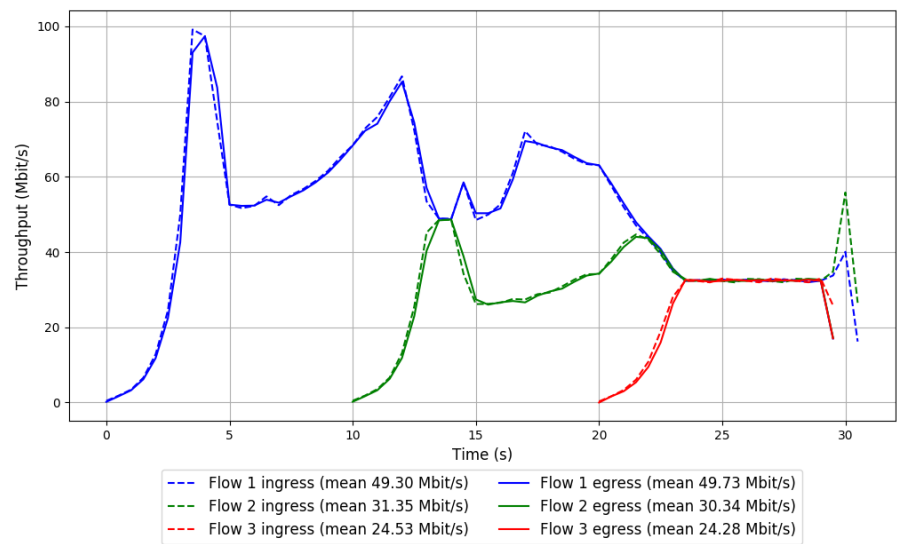


Run 1: Statistics of Vivace-loss

Start at: 2018-04-03 17:04:26
End at: 2018-04-03 17:04:56
Local clock offset: -7.127 ms
Remote clock offset: 11.597 ms

Below is generated by plot.py at 2018-04-04 01:25:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 112.273 ms
Loss rate: 4.22%
-- Flow 1:
Average throughput: 49.73 Mbit/s
95th percentile per-packet one-way delay: 112.238 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 30.34 Mbit/s
95th percentile per-packet one-way delay: 111.905 ms
Loss rate: 8.22%
-- Flow 3:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 112.720 ms
Loss rate: 3.34%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 17:28:24

End at: 2018-04-03 17:28:54

Local clock offset: -3.286 ms

Remote clock offset: 6.631 ms

Below is generated by plot.py at 2018-04-04 01:25:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.35 Mbit/s

95th percentile per-packet one-way delay: 119.041 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 118.985 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 119.063 ms

Loss rate: 1.45%

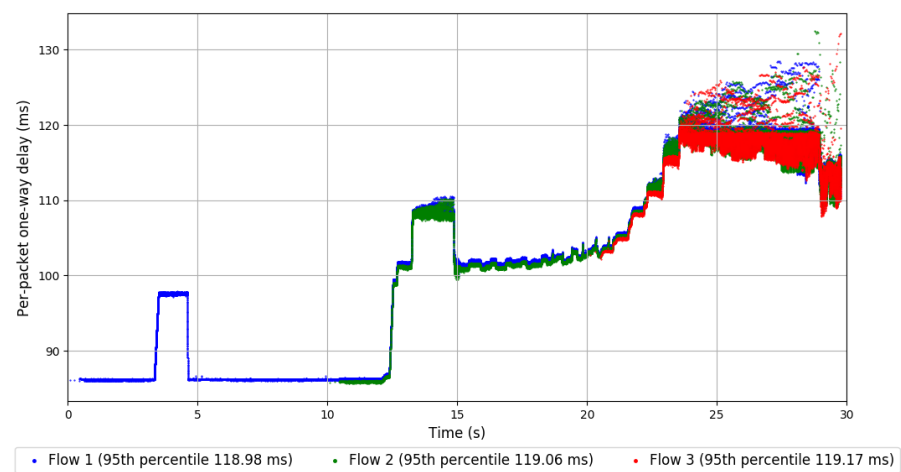
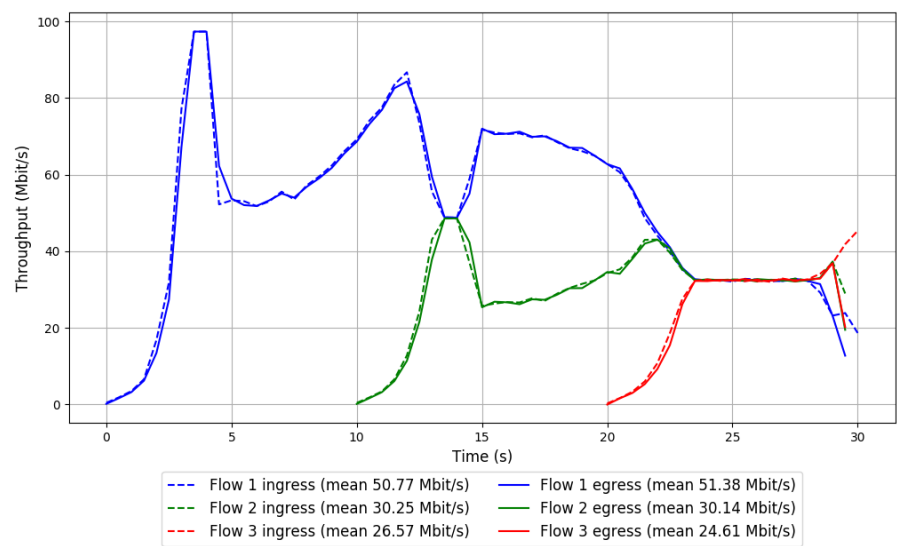
-- Flow 3:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 119.172 ms

Loss rate: 13.71%

Run 2: Report of Vivace-loss — Data Link

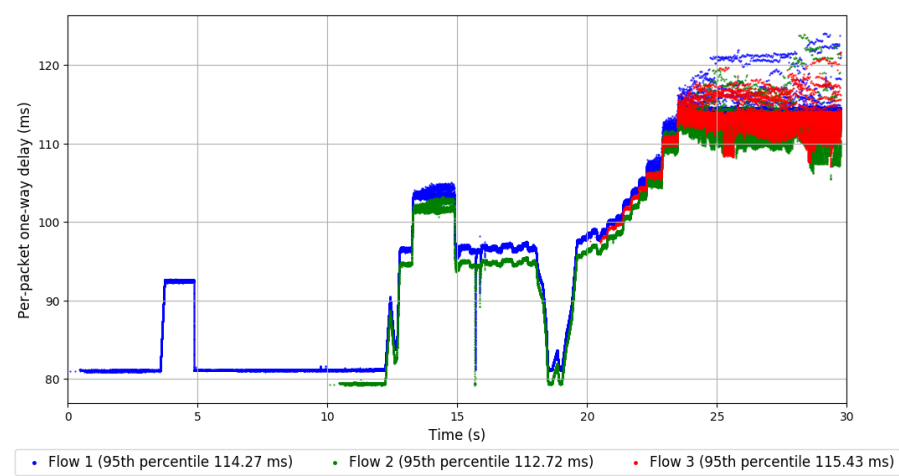
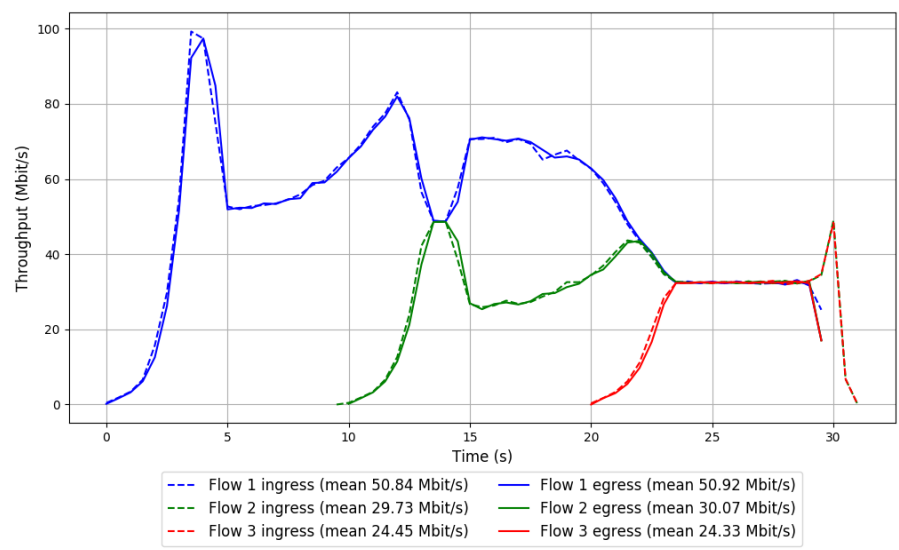


Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 17:52:14
End at: 2018-04-03 17:52:44
Local clock offset: -4.02 ms
Remote clock offset: 10.433 ms

Below is generated by plot.py at 2018-04-04 01:25:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.77 Mbit/s
95th percentile per-packet one-way delay: 114.143 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 50.92 Mbit/s
95th percentile per-packet one-way delay: 114.272 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 112.722 ms
Loss rate: 6.37%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 115.428 ms
Loss rate: 14.58%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-03 18:16:02

End at: 2018-04-03 18:16:32

Local clock offset: -6.595 ms

Remote clock offset: 4.545 ms

Below is generated by plot.py at 2018-04-04 01:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 116.888 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 49.39 Mbit/s

95th percentile per-packet one-way delay: 117.252 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 116.155 ms

Loss rate: 1.70%

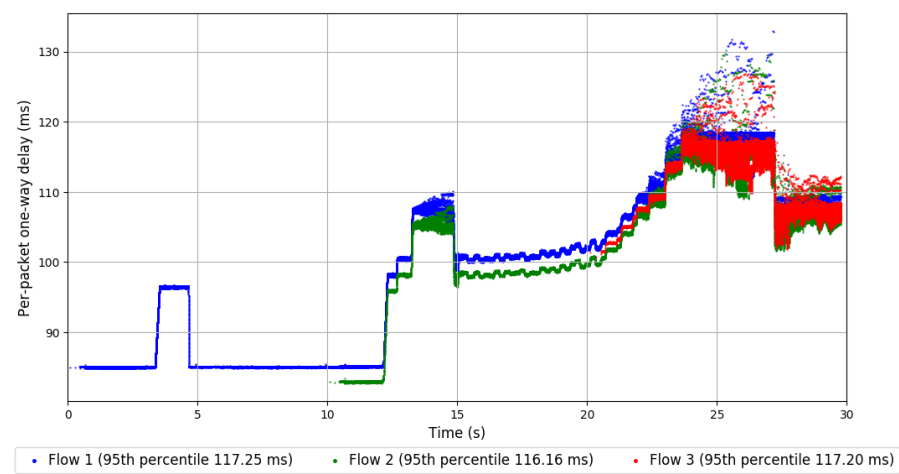
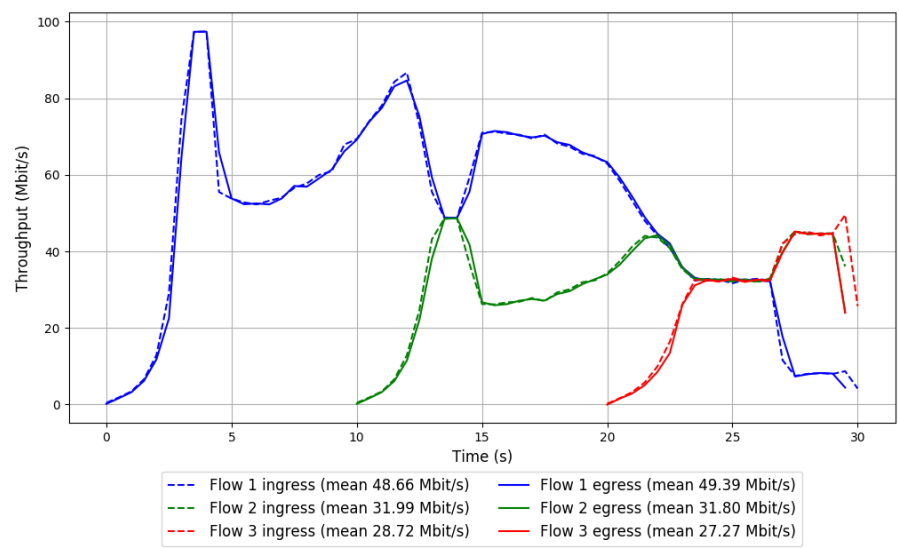
-- Flow 3:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 117.200 ms

Loss rate: 10.35%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-03 18:39:49

End at: 2018-04-03 18:40:19

Local clock offset: -2.602 ms

Remote clock offset: 9.82 ms

Below is generated by plot.py at 2018-04-04 01:26:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 111.123 ms

Loss rate: 3.69%

-- Flow 1:

Average throughput: 50.75 Mbit/s

95th percentile per-packet one-way delay: 110.568 ms

Loss rate: 2.40%

-- Flow 2:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 111.559 ms

Loss rate: 7.02%

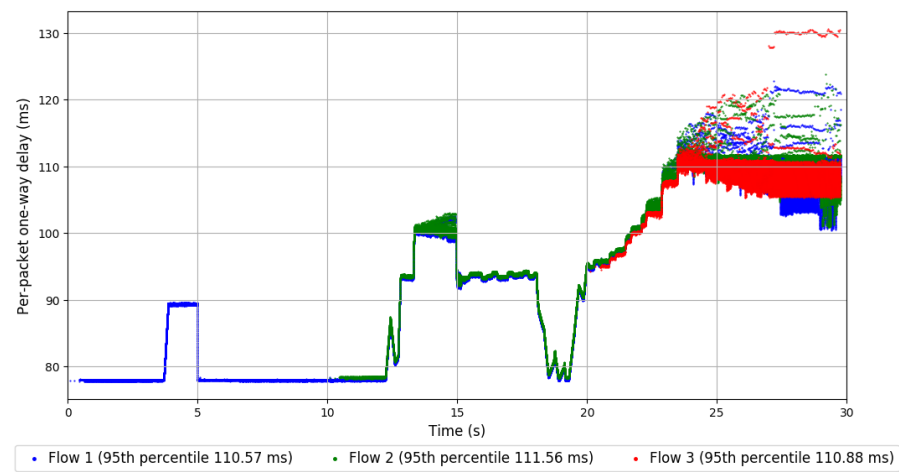
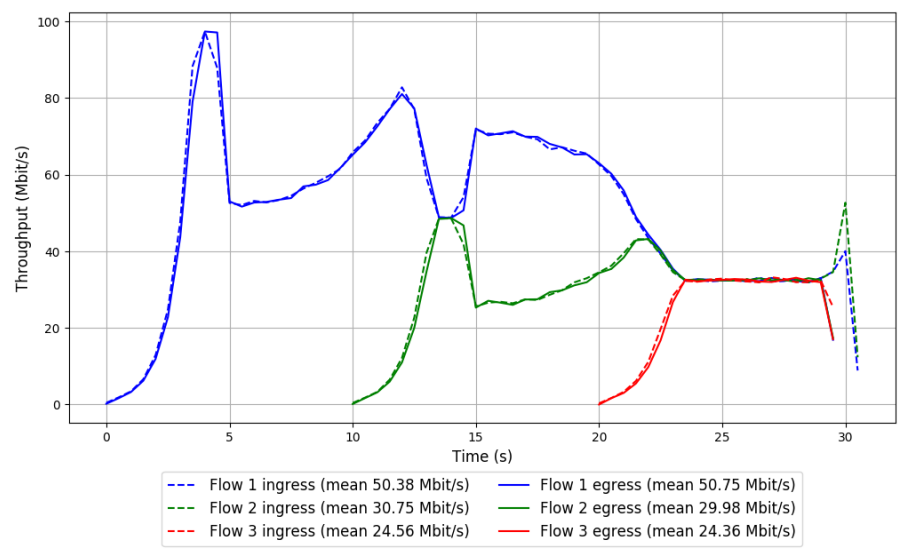
-- Flow 3:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 110.881 ms

Loss rate: 3.15%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-03 19:03:35

End at: 2018-04-03 19:04:05

Local clock offset: -2.466 ms

Remote clock offset: 9.058 ms

Below is generated by plot.py at 2018-04-04 01:26:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.82 Mbit/s

95th percentile per-packet one-way delay: 113.491 ms

Loss rate: 6.26%

-- Flow 1:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 111.433 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 112.072 ms

Loss rate: 1.29%

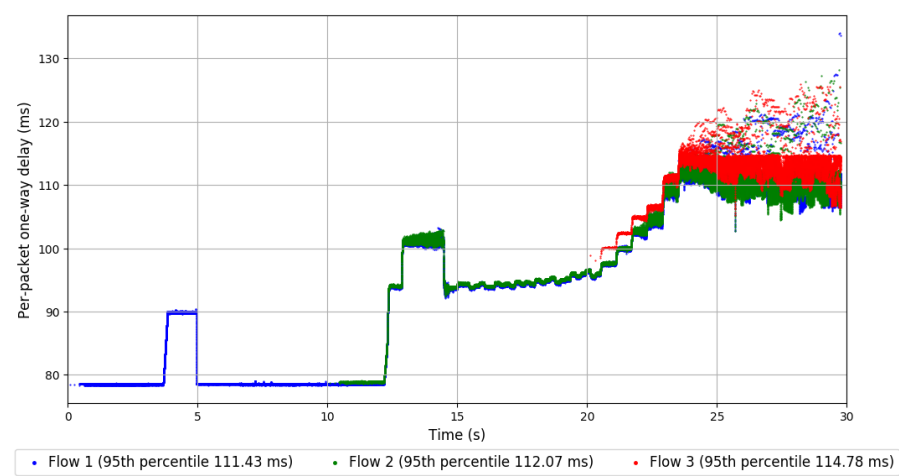
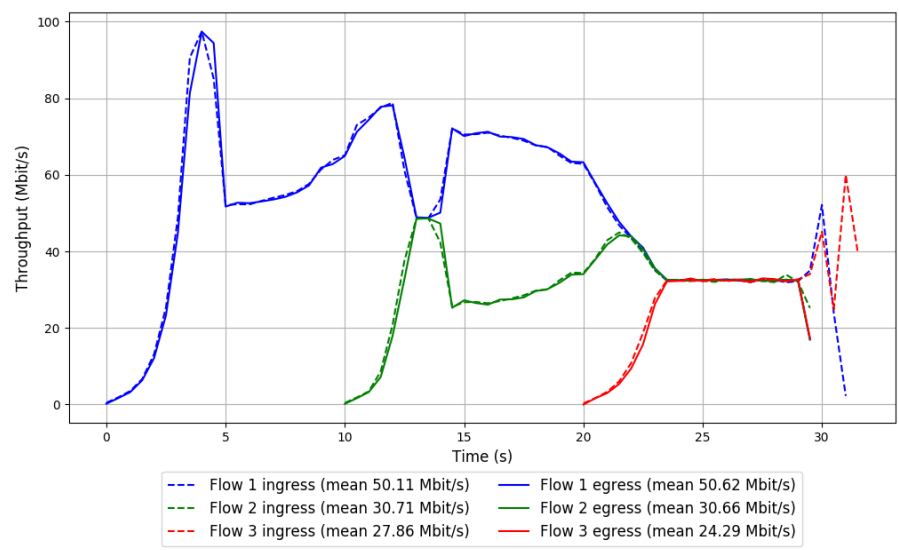
-- Flow 3:

Average throughput: 24.29 Mbit/s

95th percentile per-packet one-way delay: 114.780 ms

Loss rate: 29.27%

Run 6: Report of Vivace-loss — Data Link

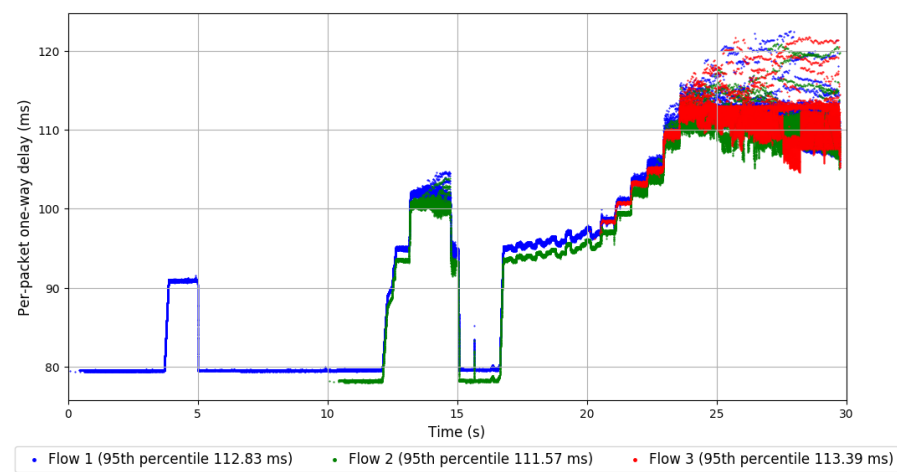
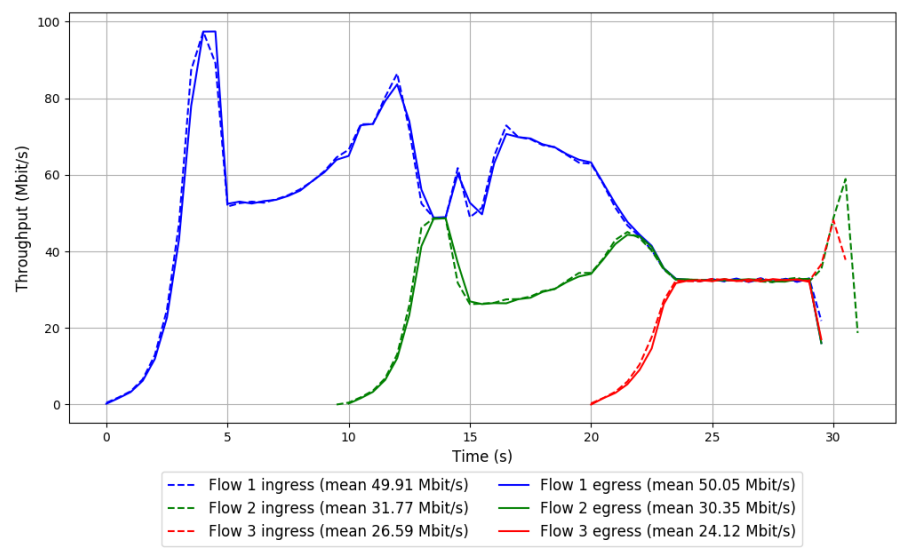


Run 7: Statistics of Vivace-loss

Start at: 2018-04-03 19:29:00
End at: 2018-04-03 19:29:30
Local clock offset: -2.679 ms
Remote clock offset: 10.944 ms

Below is generated by plot.py at 2018-04-04 01:26:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 112.876 ms
Loss rate: 5.68%
-- Flow 1:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 112.833 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 30.35 Mbit/s
95th percentile per-packet one-way delay: 111.572 ms
Loss rate: 11.33%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 113.387 ms
Loss rate: 19.52%

Run 7: Report of Vivace-loss — Data Link

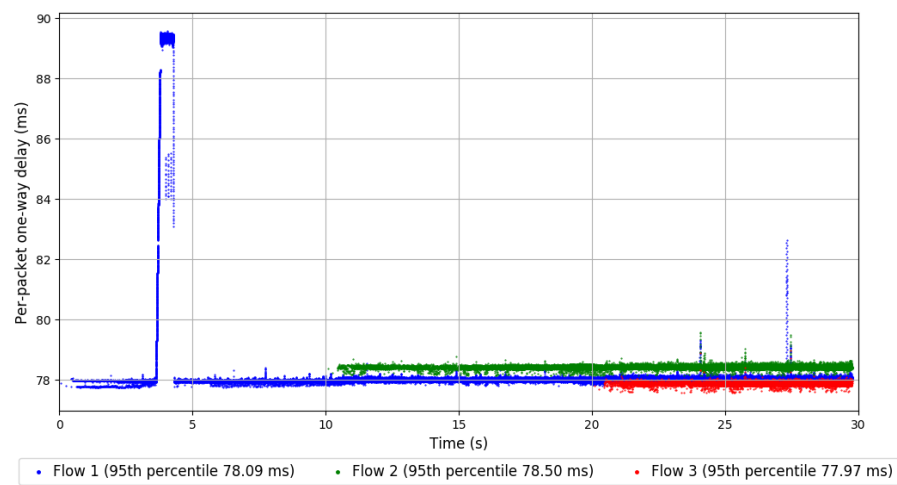
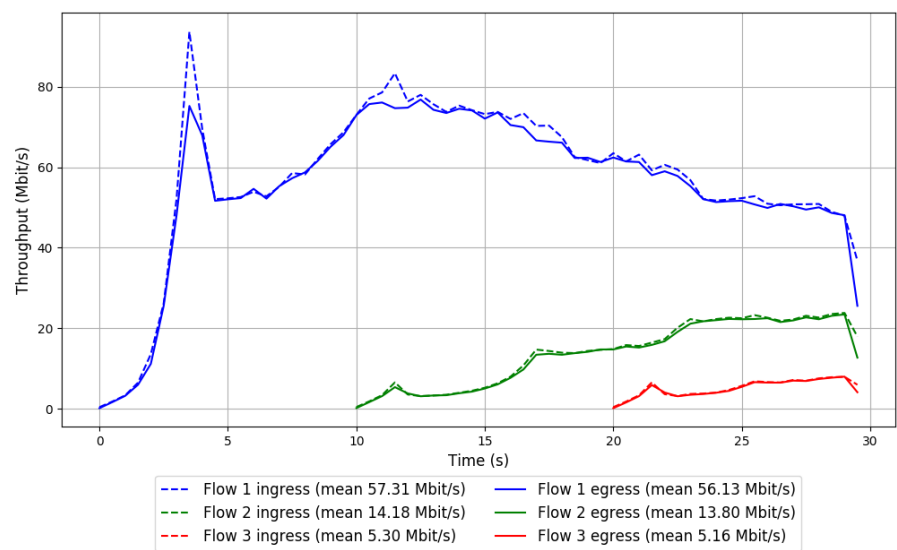


Run 8: Statistics of Vivace-loss

Start at: 2018-04-03 19:52:57
End at: 2018-04-03 19:53:28
Local clock offset: -3.018 ms
Remote clock offset: 12.532 ms

Below is generated by plot.py at 2018-04-04 01:26:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.96 Mbit/s
95th percentile per-packet one-way delay: 78.463 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 56.13 Mbit/s
95th percentile per-packet one-way delay: 78.087 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 78.496 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 77.970 ms
Loss rate: 4.34%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-03 20:16:46

End at: 2018-04-03 20:17:16

Local clock offset: -4.246 ms

Remote clock offset: 11.2 ms

Below is generated by plot.py at 2018-04-04 01:27:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.85 Mbit/s

95th percentile per-packet one-way delay: 112.734 ms

Loss rate: 5.44%

-- Flow 1:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 112.173 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 30.61 Mbit/s

95th percentile per-packet one-way delay: 113.488 ms

Loss rate: 8.73%

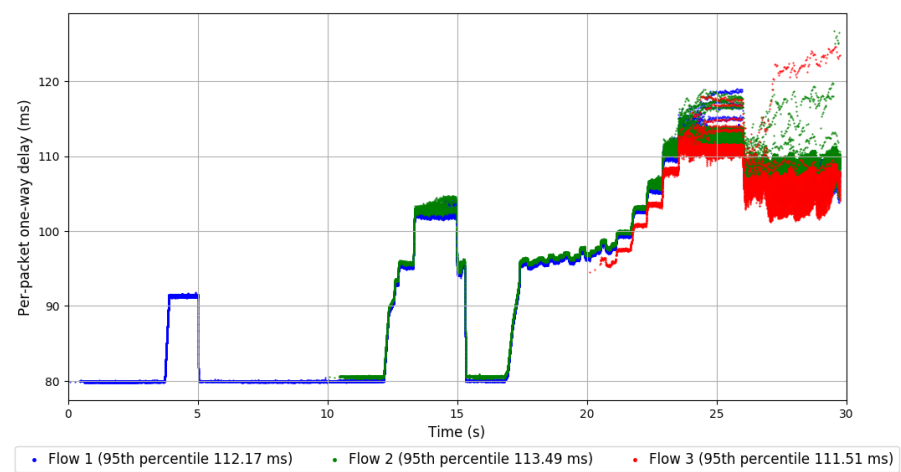
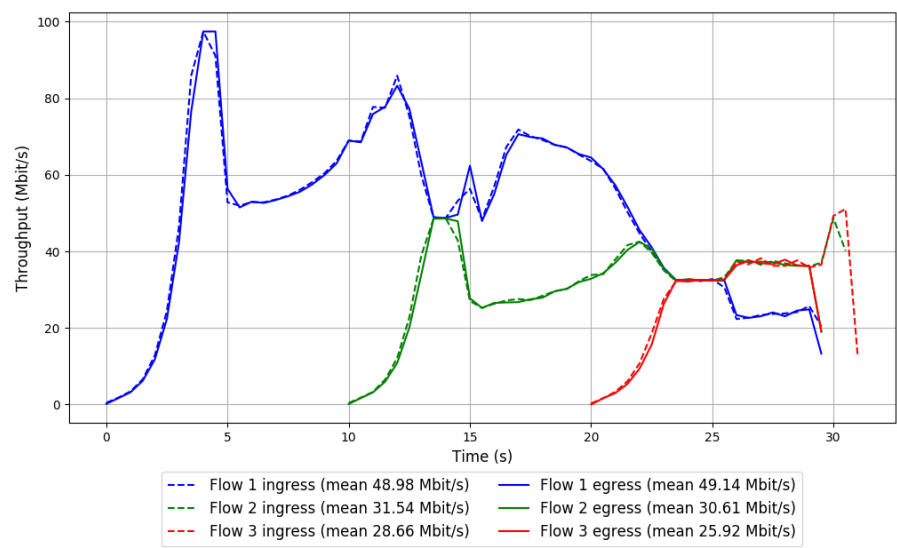
-- Flow 3:

Average throughput: 25.92 Mbit/s

95th percentile per-packet one-way delay: 111.512 ms

Loss rate: 21.60%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-03 20:40:50

End at: 2018-04-03 20:41:20

Local clock offset: -5.48 ms

Remote clock offset: 5.292 ms

Below is generated by plot.py at 2018-04-04 01:27:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.38 Mbit/s

95th percentile per-packet one-way delay: 85.702 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 85.704 ms

Loss rate: 2.27%

-- Flow 2:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 83.559 ms

Loss rate: 3.63%

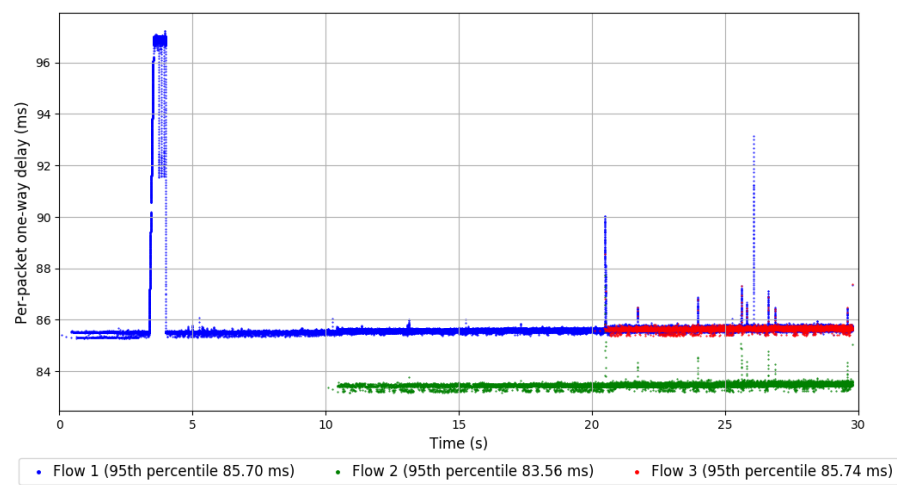
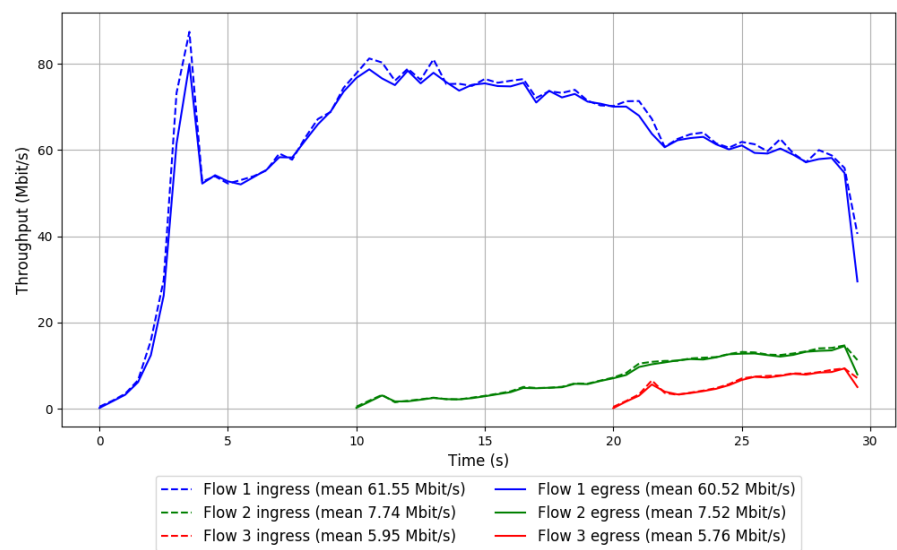
-- Flow 3:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 85.744 ms

Loss rate: 4.91%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-03 17:21:45

End at: 2018-04-03 17:22:15

Local clock offset: -4.319 ms

Remote clock offset: 7.08 ms

Below is generated by plot.py at 2018-04-04 01:27:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 117.471 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 116.753 ms

Loss rate: 2.21%

-- Flow 2:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 118.251 ms

Loss rate: 1.26%

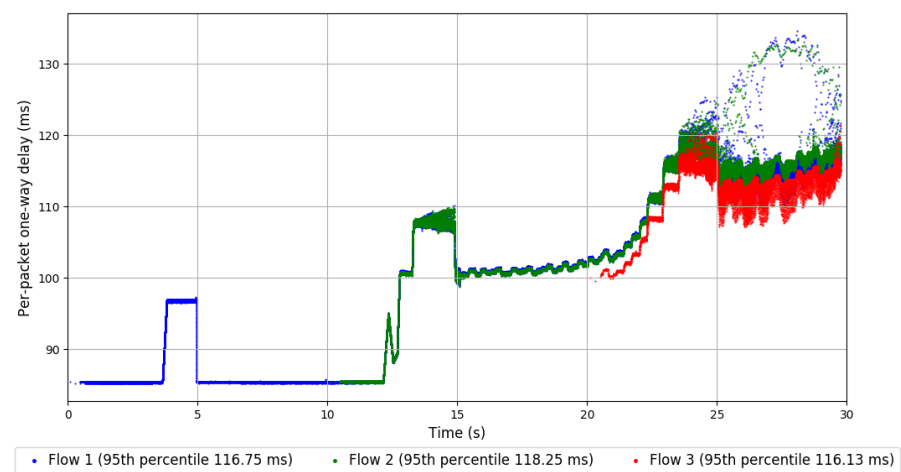
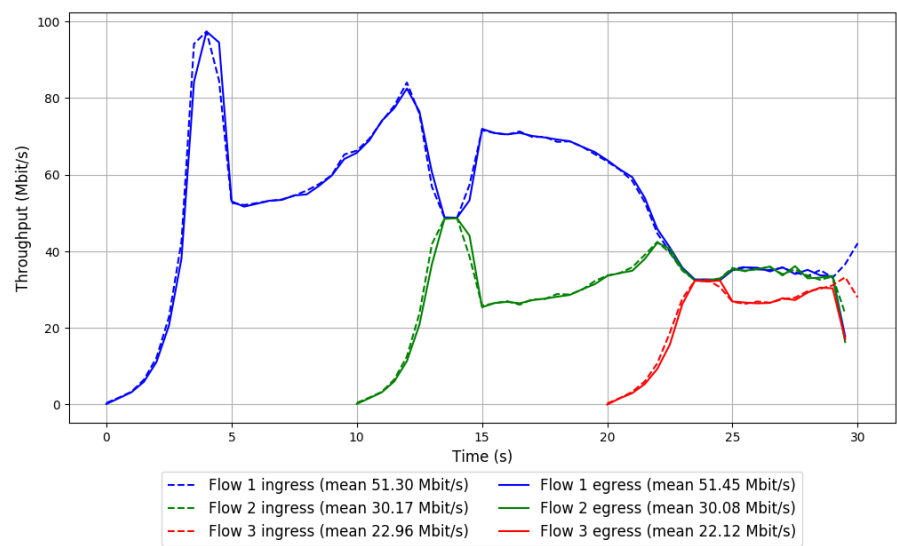
-- Flow 3:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 116.128 ms

Loss rate: 10.77%

Run 1: Report of Vivace-LTE — Data Link

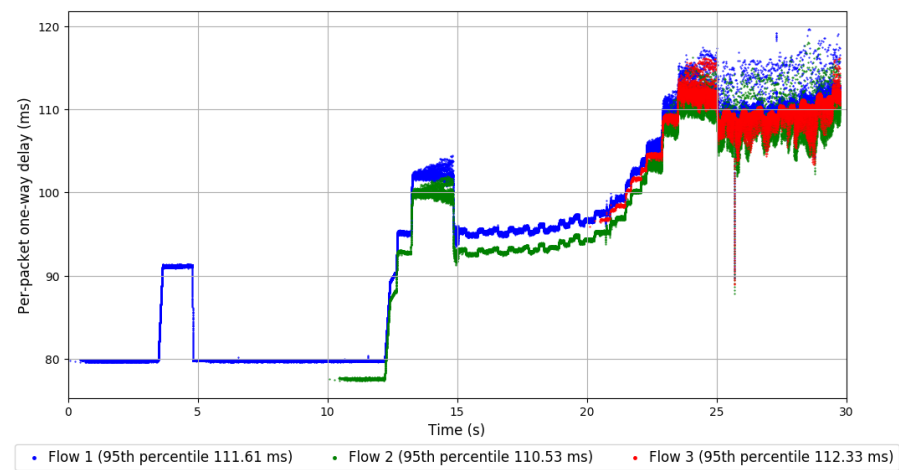
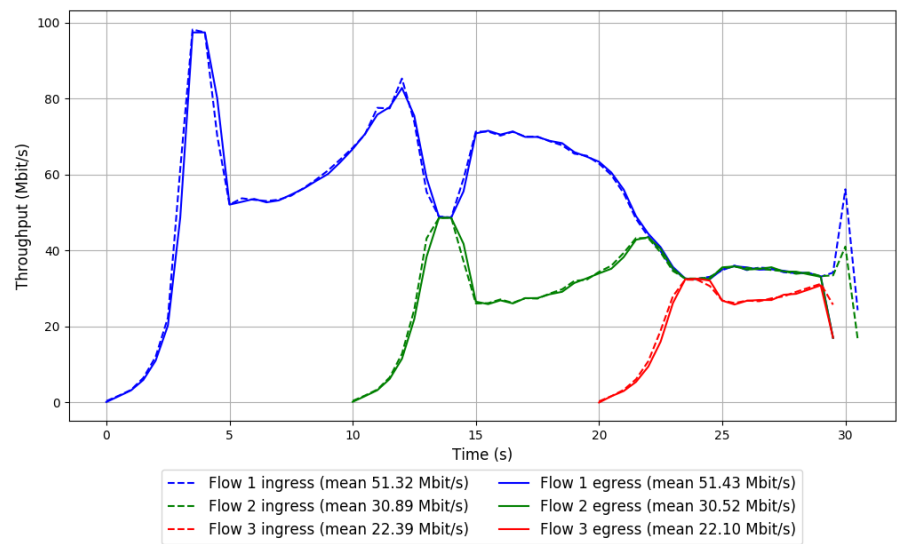


Run 2: Statistics of Vivace-LTE

Start at: 2018-04-03 17:45:35
End at: 2018-04-03 17:46:05
Local clock offset: -2.258 ms
Remote clock offset: 12.397 ms

Below is generated by plot.py at 2018-04-04 01:27:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.85 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 51.43 Mbit/s
95th percentile per-packet one-way delay: 111.610 ms
Loss rate: 3.33%
-- Flow 2:
Average throughput: 30.52 Mbit/s
95th percentile per-packet one-way delay: 110.530 ms
Loss rate: 6.35%
-- Flow 3:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 112.328 ms
Loss rate: 3.58%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 18:09:24

End at: 2018-04-03 18:09:54

Local clock offset: -6.181 ms

Remote clock offset: 5.692 ms

Below is generated by plot.py at 2018-04-04 01:27:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 115.438 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 114.292 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 115.362 ms

Loss rate: 1.32%

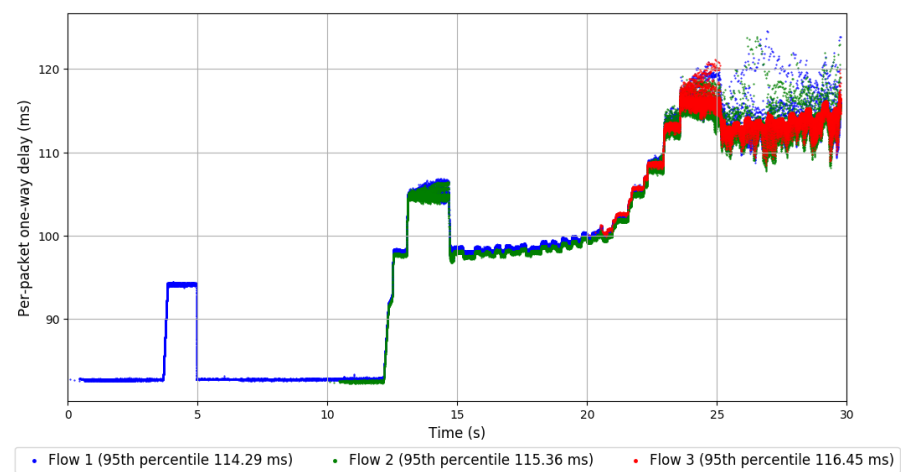
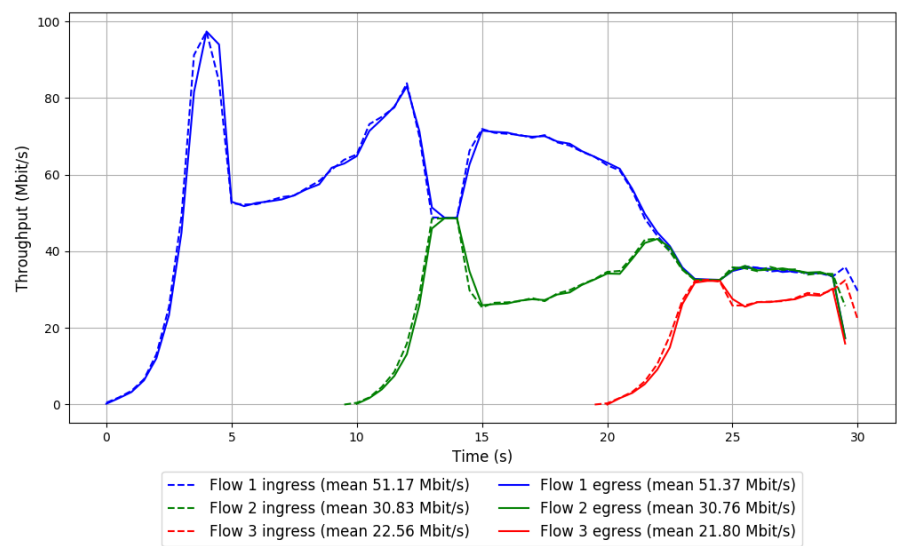
-- Flow 3:

Average throughput: 21.80 Mbit/s

95th percentile per-packet one-way delay: 116.446 ms

Loss rate: 9.75%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-03 18:33:11

End at: 2018-04-03 18:33:41

Local clock offset: -3.428 ms

Remote clock offset: 9.887 ms

Below is generated by plot.py at 2018-04-04 01:27:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 111.728 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 111.120 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 31.00 Mbit/s

95th percentile per-packet one-way delay: 110.084 ms

Loss rate: 1.12%

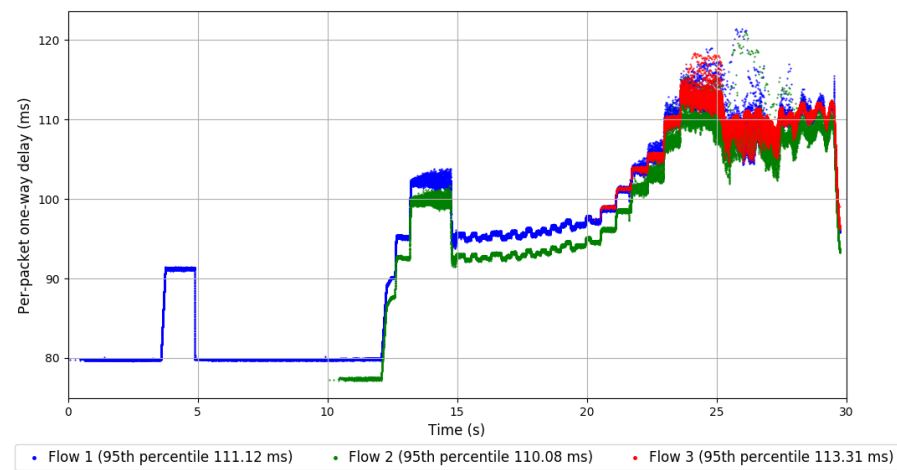
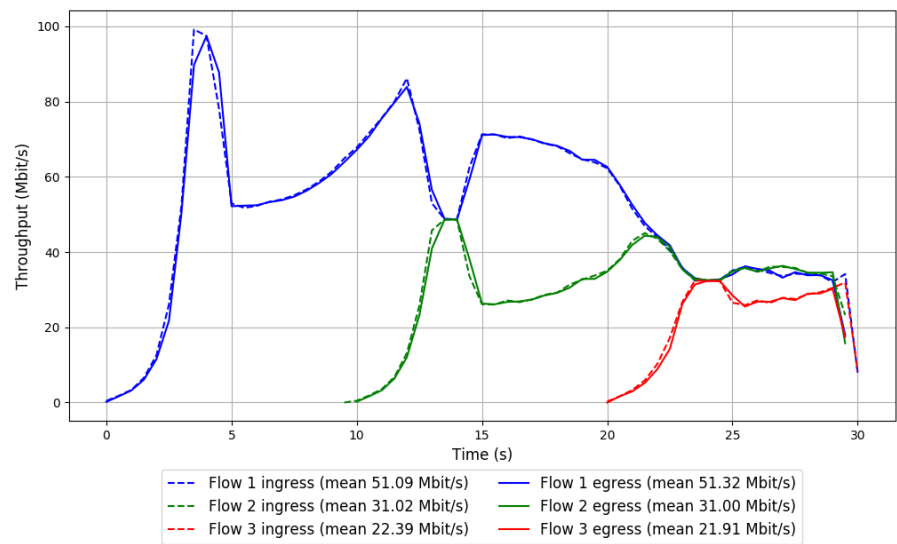
-- Flow 3:

Average throughput: 21.91 Mbit/s

95th percentile per-packet one-way delay: 113.306 ms

Loss rate: 6.50%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-03 18:56:57

End at: 2018-04-03 18:57:27

Local clock offset: -1.773 ms

Remote clock offset: 9.983 ms

Below is generated by plot.py at 2018-04-04 01:27:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 110.677 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 108.043 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 112.082 ms

Loss rate: 1.32%

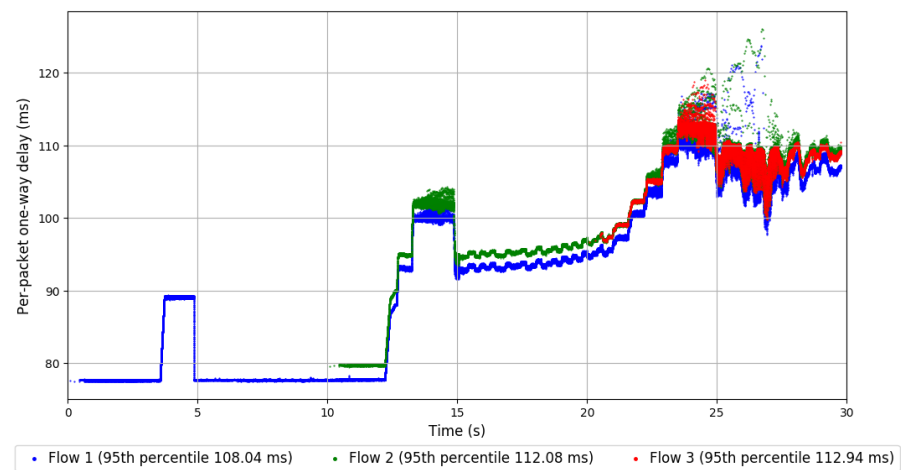
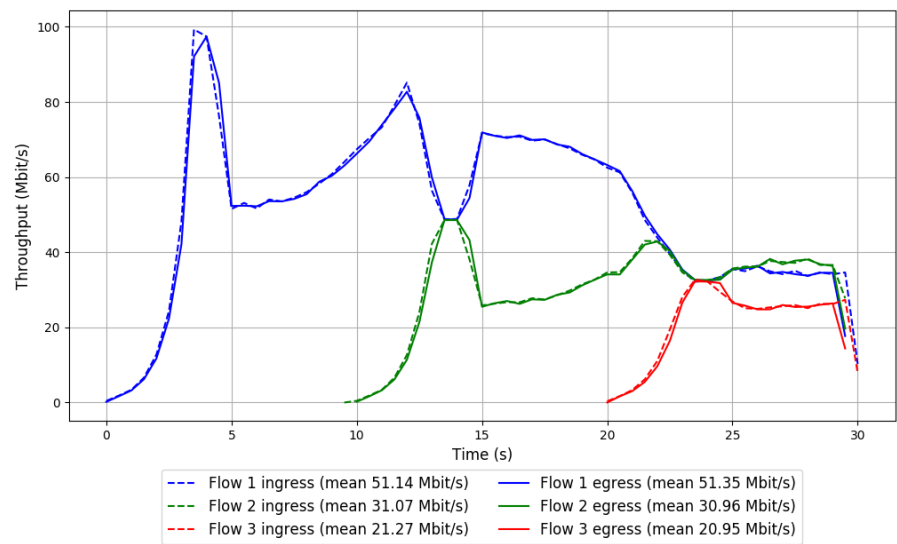
-- Flow 3:

Average throughput: 20.95 Mbit/s

95th percentile per-packet one-way delay: 112.935 ms

Loss rate: 6.14%

Run 5: Report of Vivace-LTE — Data Link

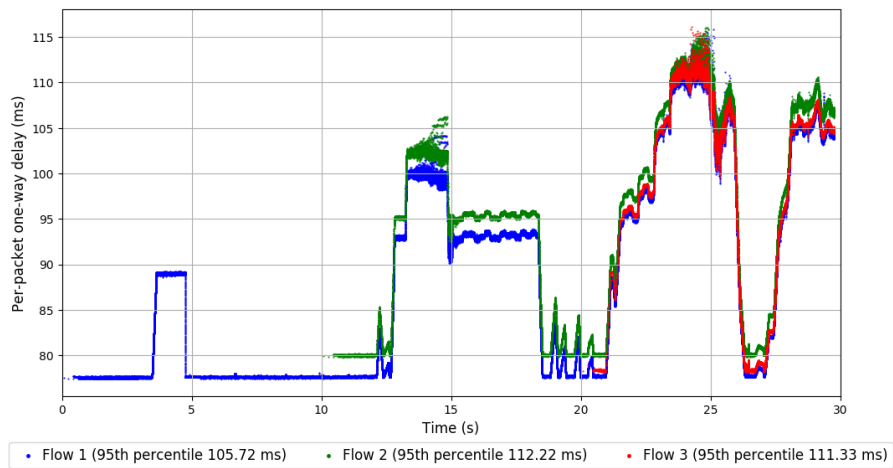
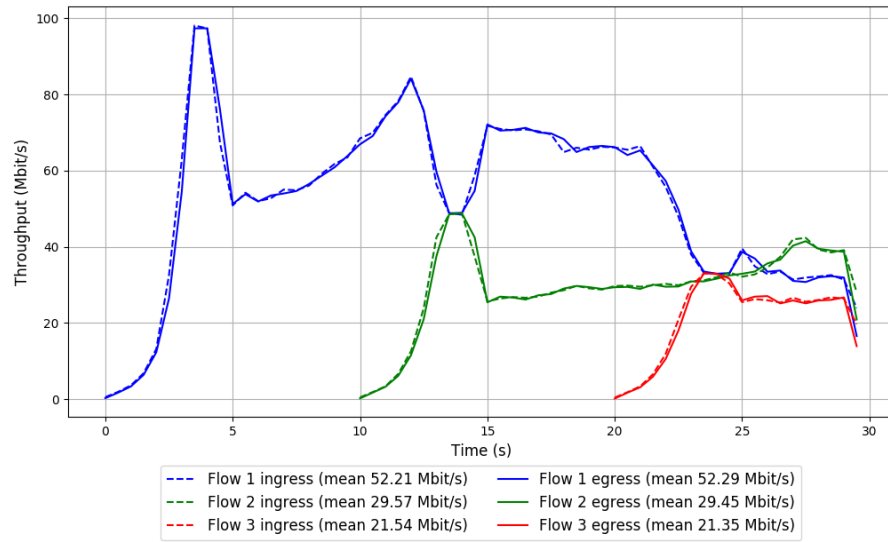


Run 6: Statistics of Vivace-LTE

Start at: 2018-04-03 19:22:21
End at: 2018-04-03 19:22:51
Local clock offset: -2.72 ms
Remote clock offset: 10.325 ms

Below is generated by plot.py at 2018-04-04 01:27:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.76 Mbit/s
95th percentile per-packet one-way delay: 110.179 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 52.29 Mbit/s
95th percentile per-packet one-way delay: 105.717 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 29.45 Mbit/s
95th percentile per-packet one-way delay: 112.215 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 111.334 ms
Loss rate: 2.68%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-03 19:46:19

End at: 2018-04-03 19:46:49

Local clock offset: -2.984 ms

Remote clock offset: 6.761 ms

Below is generated by plot.py at 2018-04-04 01:27:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 117.951 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 117.214 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 117.863 ms

Loss rate: 1.23%

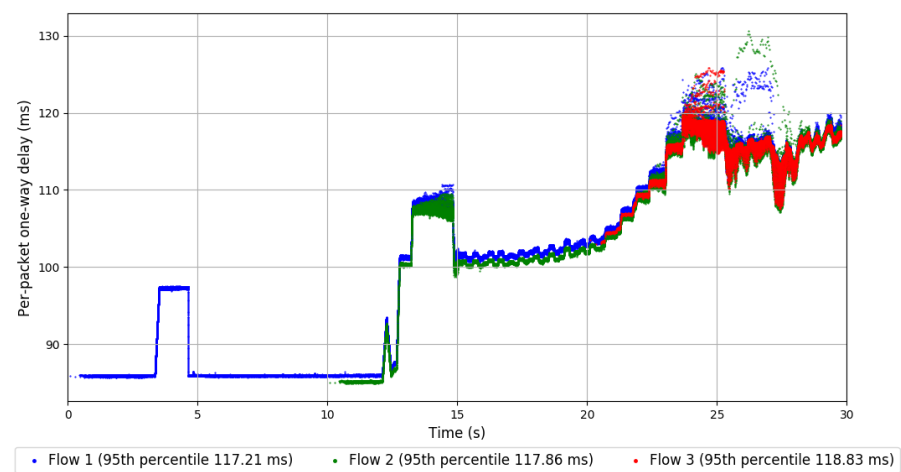
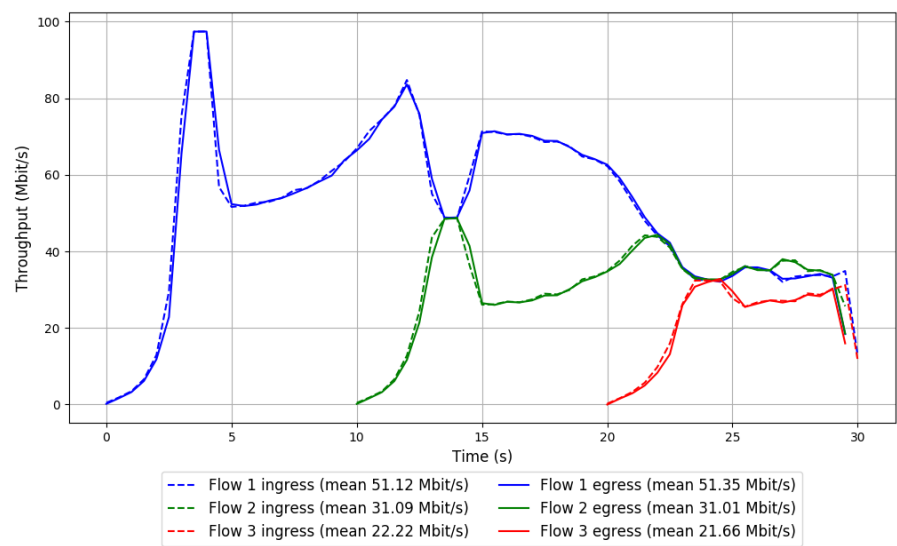
-- Flow 3:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 118.828 ms

Loss rate: 7.42%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-03 20:10:08

End at: 2018-04-03 20:10:38

Local clock offset: -3.816 ms

Remote clock offset: 6.819 ms

Below is generated by plot.py at 2018-04-04 01:27:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 84.065 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 83.065 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 10.45 Mbit/s

95th percentile per-packet one-way delay: 83.331 ms

Loss rate: 2.83%

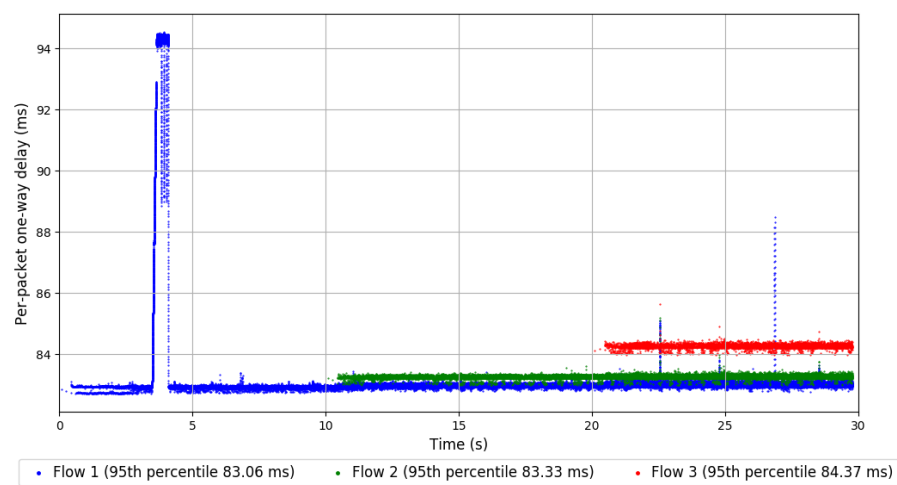
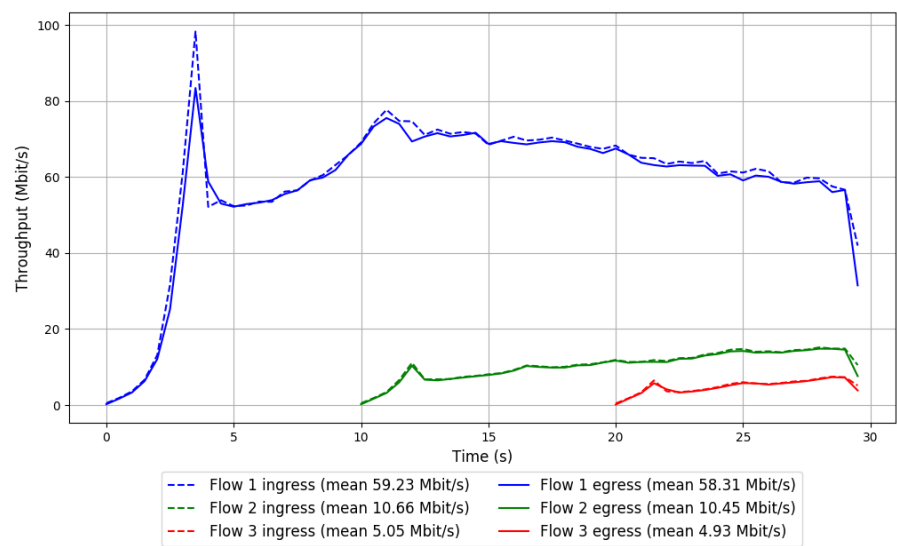
-- Flow 3:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 84.371 ms

Loss rate: 4.19%

Run 8: Report of Vivace-LTE — Data Link

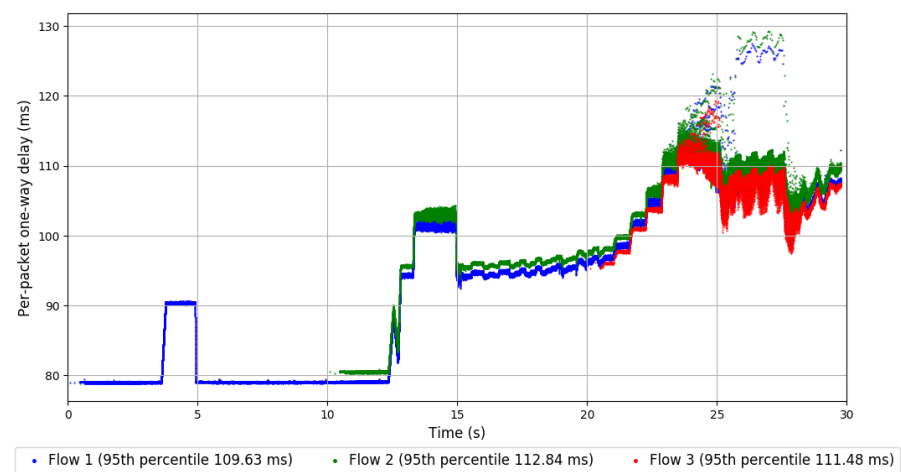
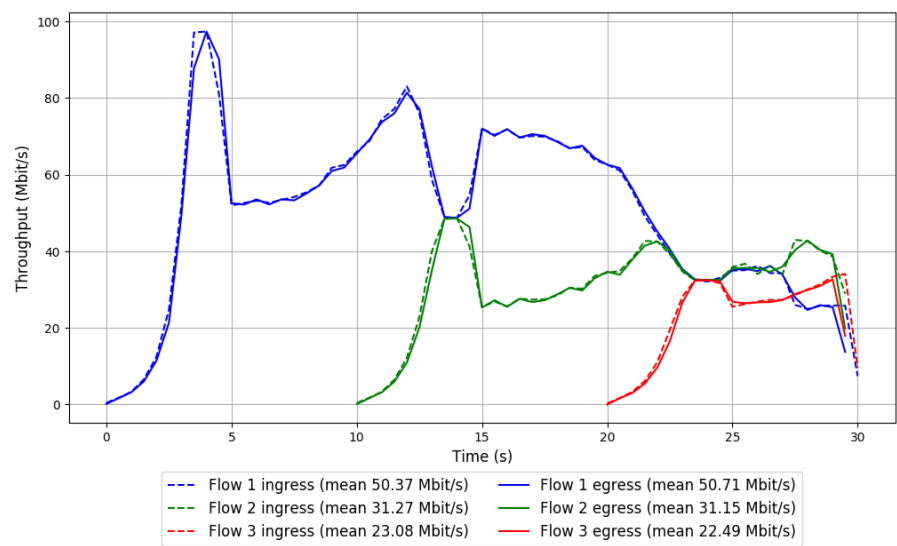


Run 9: Statistics of Vivace-LTE

Start at: 2018-04-03 20:34:07
End at: 2018-04-03 20:34:37
Local clock offset: -4.822 ms
Remote clock offset: 10.003 ms

Below is generated by plot.py at 2018-04-04 01:27:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.67 Mbit/s
95th percentile per-packet one-way delay: 111.332 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 50.71 Mbit/s
95th percentile per-packet one-way delay: 109.628 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 112.842 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 22.49 Mbit/s
95th percentile per-packet one-way delay: 111.482 ms
Loss rate: 7.05%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-03 20:58:03
End at: 2018-04-03 20:58:33
Local clock offset: -7.276 ms
Remote clock offset: 11.233 ms

Below is generated by plot.py at 2018-04-04 01:27:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.93 Mbit/s
95th percentile per-packet one-way delay: 111.154 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 51.44 Mbit/s
95th percentile per-packet one-way delay: 111.191 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 111.043 ms
Loss rate: 3.30%
-- Flow 3:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 111.255 ms
Loss rate: 7.66%

Run 10: Report of Vivace-LTE — Data Link

