

Pantheon Report

Generated at 2018-01-10 06:41:02 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

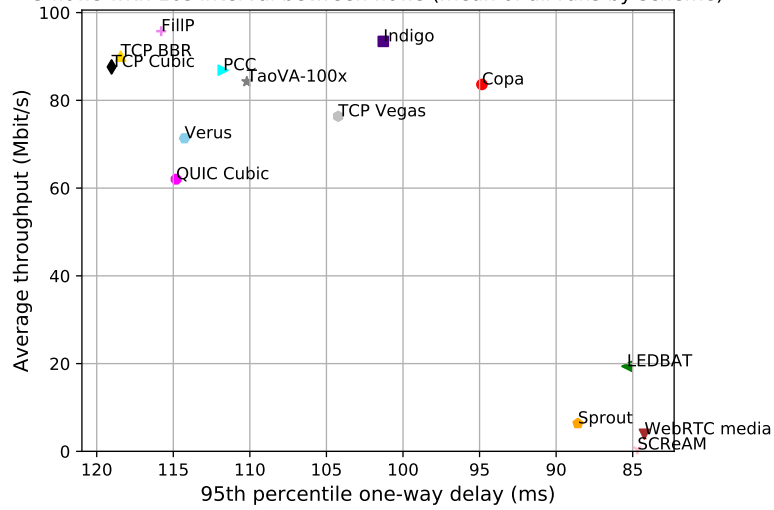
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

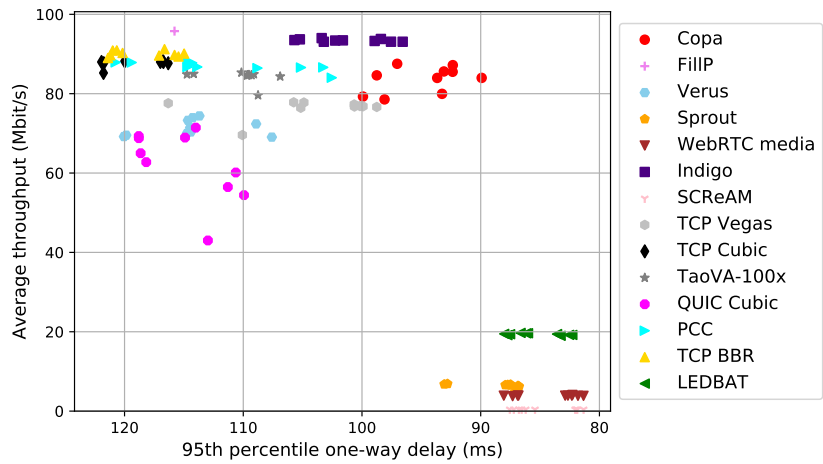
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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



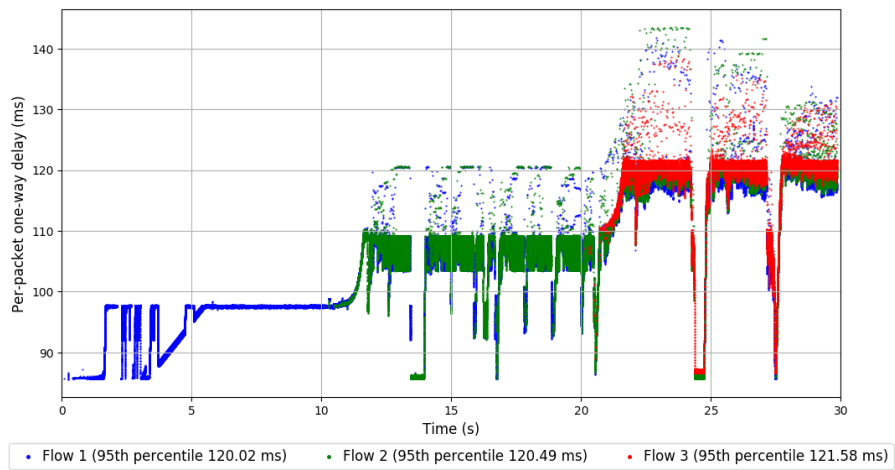
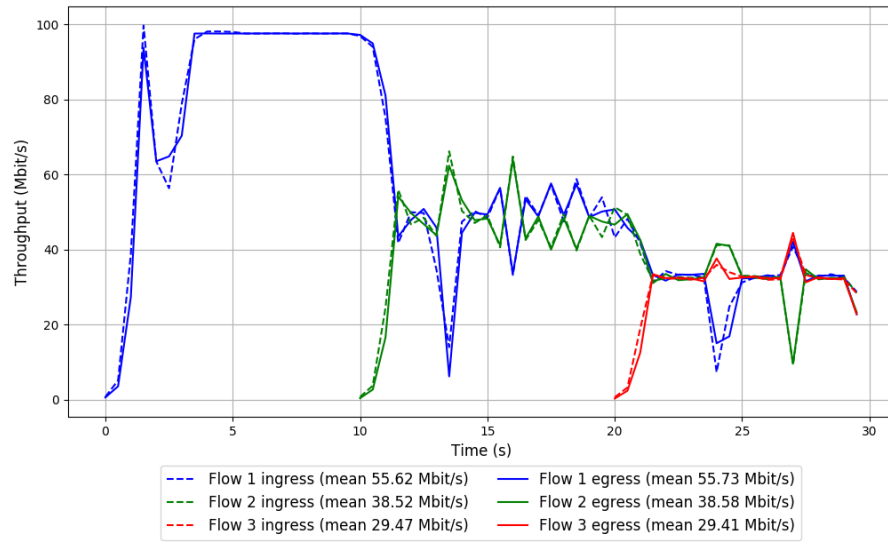
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	53.64	38.81	29.10	118.09	118.47	118.42	0.43	0.91	2.47
TCP Cubic	8	53.14	37.75	28.92	118.54	118.76	118.78	0.51	1.45	3.75
LEDBAT	10	12.57	8.32	4.00	85.05	85.58	85.27	1.12	1.69	3.46
PCC	10	57.62	33.98	21.99	111.10	111.85	115.30	1.97	1.74	7.09
QUIC Cubic	10	33.57	32.84	20.68	114.38	114.53	115.81	0.55	0.72	1.87
SCReAM	10	0.22	0.22	0.22	84.15	84.30	84.05	0.52	1.03	1.56
WebRTC media	10	2.14	1.31	0.46	83.83	84.15	84.04	0.76	0.55	2.34
Sprout	9	3.55	3.26	2.02	88.54	88.46	87.43	0.68	1.30	2.62
TaoVA-100x	10	52.22	38.30	26.94	108.35	110.73	110.95	0.40	0.88	2.74
TCP Vegas	10	44.29	40.98	14.93	103.45	104.72	104.96	0.58	0.85	1.98
Verus	10	34.46	42.06	27.59	112.85	113.93	116.06	0.57	0.77	2.41
Copa	10	67.97	18.93	10.85	94.24	97.23	96.67	0.53	1.12	3.15
FillP	1	59.83	40.69	30.52	114.56	116.29	117.01	0.37	0.72	2.43
Indigo	10	67.94	25.35	27.27	98.69	104.31	106.48	0.36	0.79	2.27

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 23:45:20
End at: 2018-01-09 23:45:50
Local clock offset: 1.27 ms
Remote clock offset: -2.889 ms

Below is generated by plot.py at 2018-01-10 06:11:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 120.653 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 120.017 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 38.58 Mbit/s
95th percentile per-packet one-way delay: 120.489 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 121.581 ms
Loss rate: 2.23%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-10 00:05:03

End at: 2018-01-10 00:05:33

Local clock offset: 1.689 ms

Remote clock offset: 2.491 ms

Below is generated by plot.py at 2018-01-10 06:11:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.37 Mbit/s

95th percentile per-packet one-way delay: 115.455 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 54.04 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 116.296 ms

Loss rate: 0.84%

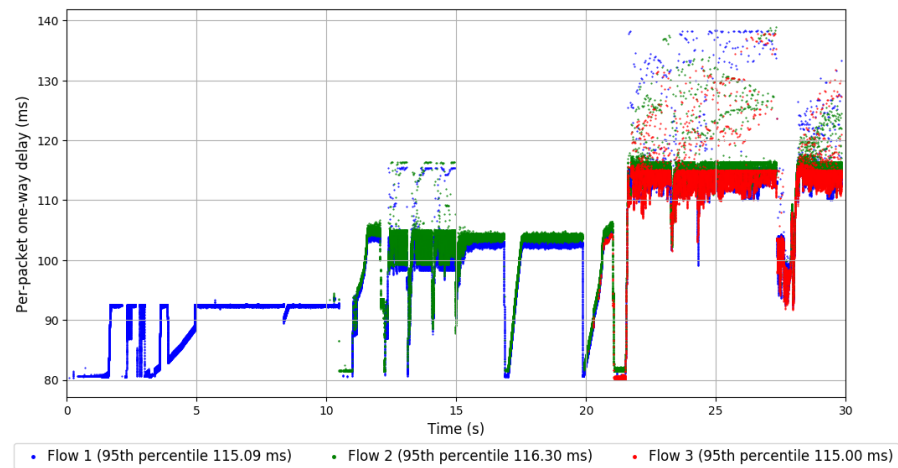
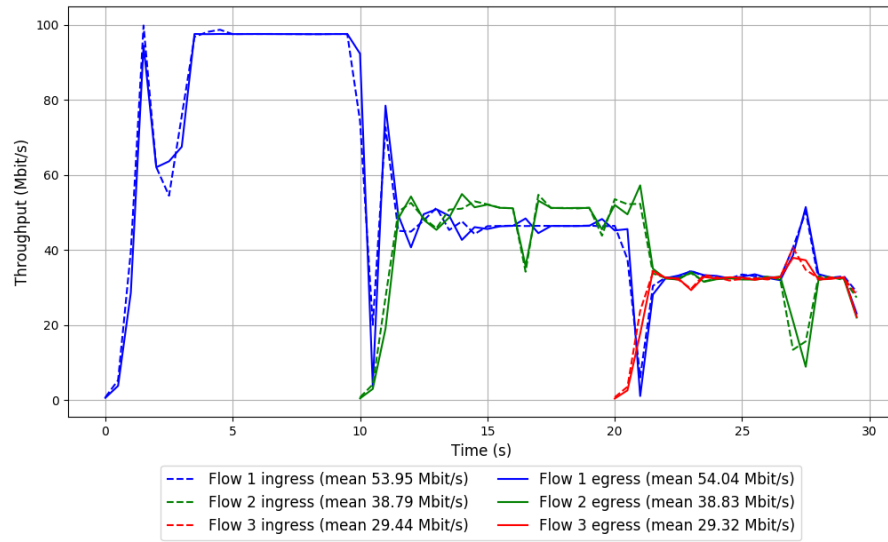
-- Flow 3:

Average throughput: 29.32 Mbit/s

95th percentile per-packet one-way delay: 115.002 ms

Loss rate: 2.27%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-10 00:24:48

End at: 2018-01-10 00:25:18

Local clock offset: 2.241 ms

Remote clock offset: 2.611 ms

Below is generated by plot.py at 2018-01-10 06:11:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 116.634 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 116.569 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 116.830 ms

Loss rate: 0.75%

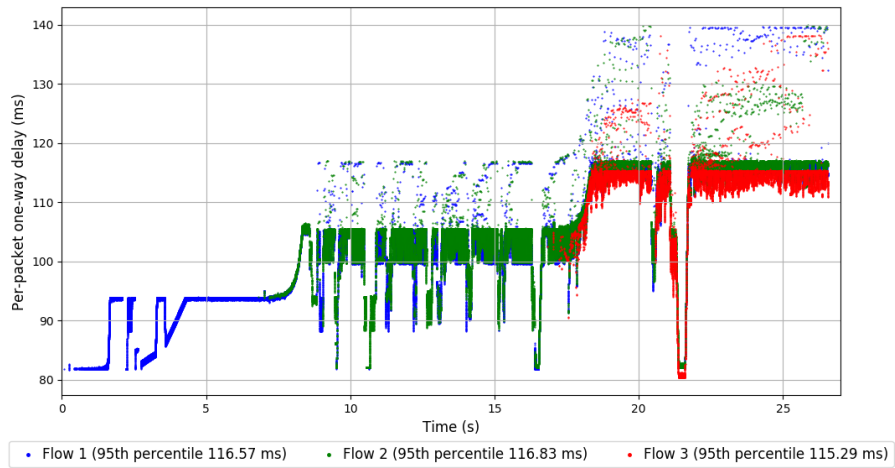
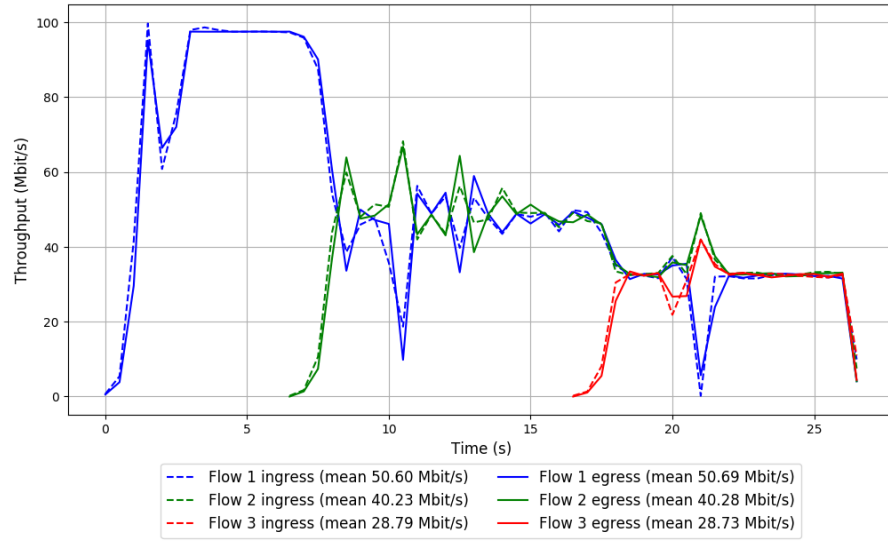
-- Flow 3:

Average throughput: 28.73 Mbit/s

95th percentile per-packet one-way delay: 115.290 ms

Loss rate: 2.31%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-10 00:44:28

End at: 2018-01-10 00:44:58

Local clock offset: 2.418 ms

Remote clock offset: -2.43 ms

Below is generated by plot.py at 2018-01-10 06:11:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 121.198 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 54.06 Mbit/s

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

Loss rate: 0.41%

-- Flow 2:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 120.233 ms

Loss rate: 0.82%

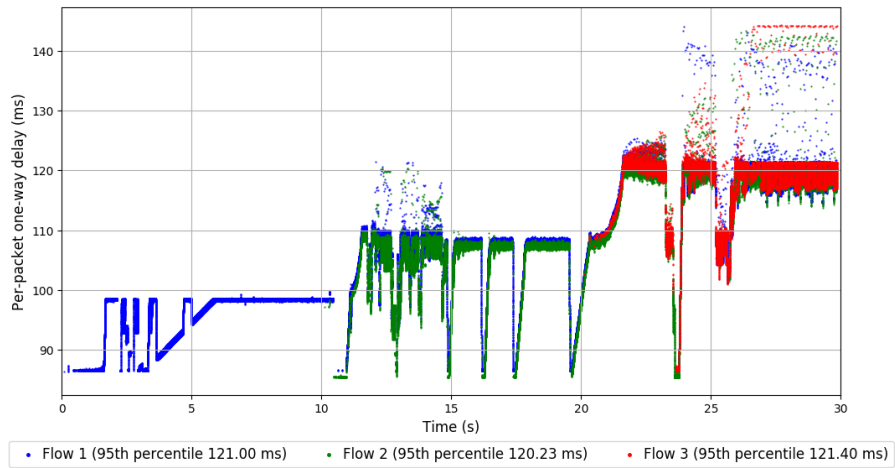
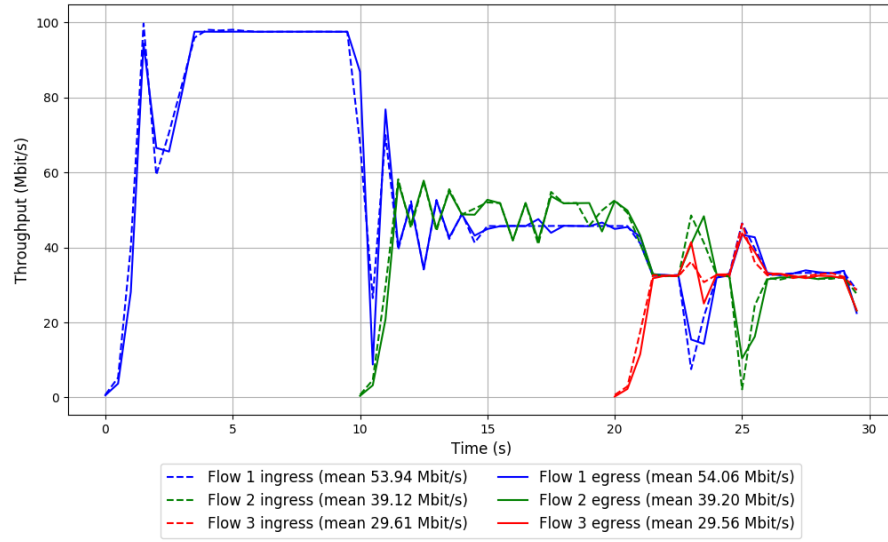
-- Flow 3:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 121.401 ms

Loss rate: 2.33%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-10 01:04:07

End at: 2018-01-10 01:04:37

Local clock offset: 2.051 ms

Remote clock offset: 2.318 ms

Below is generated by plot.py at 2018-01-10 06:11:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 114.981 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 114.772 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 38.36 Mbit/s

95th percentile per-packet one-way delay: 115.327 ms

Loss rate: 0.85%

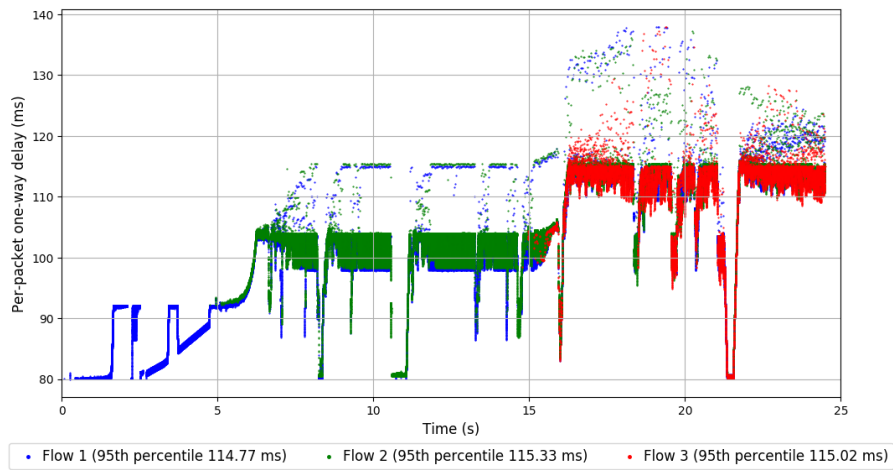
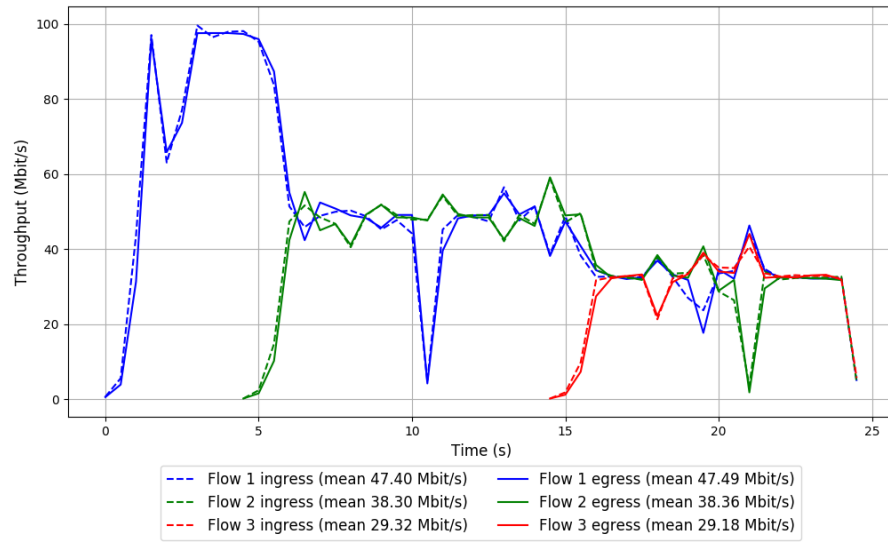
-- Flow 3:

Average throughput: 29.18 Mbit/s

95th percentile per-packet one-way delay: 115.018 ms

Loss rate: 2.31%

Run 5: Report of TCP BBR — Data Link

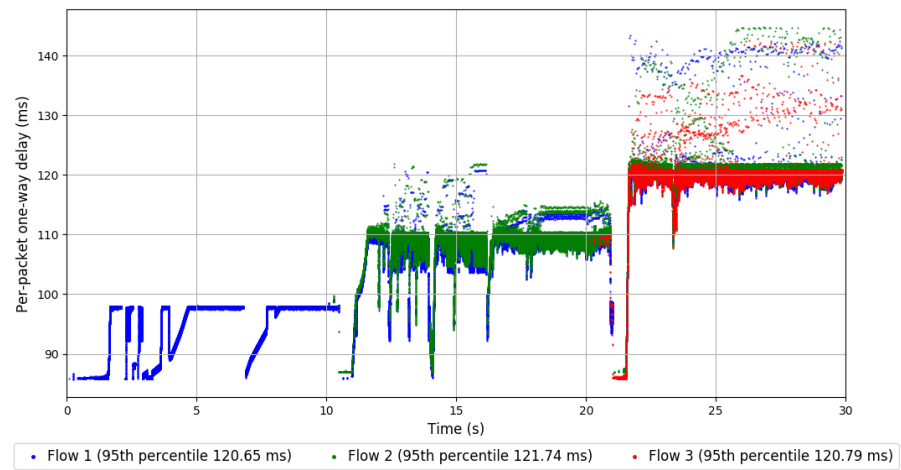
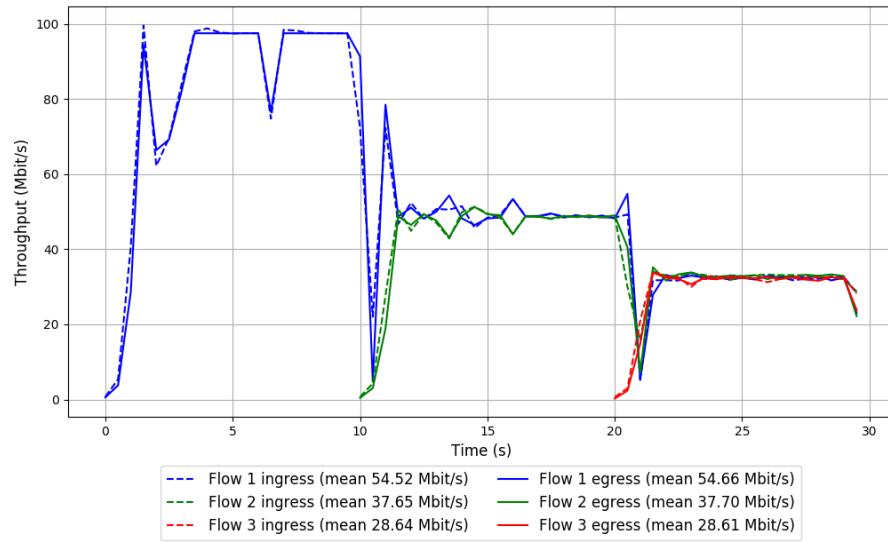


Run 6: Statistics of TCP BBR

Start at: 2018-01-10 01:23:44
End at: 2018-01-10 01:24:14
Local clock offset: 2.39 ms
Remote clock offset: -3.141 ms

Below is generated by plot.py at 2018-01-10 06:11:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 121.400 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 54.66 Mbit/s
95th percentile per-packet one-way delay: 120.651 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 37.70 Mbit/s
95th percentile per-packet one-way delay: 121.742 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 120.788 ms
Loss rate: 2.29%

Run 6: Report of TCP BBR — Data Link

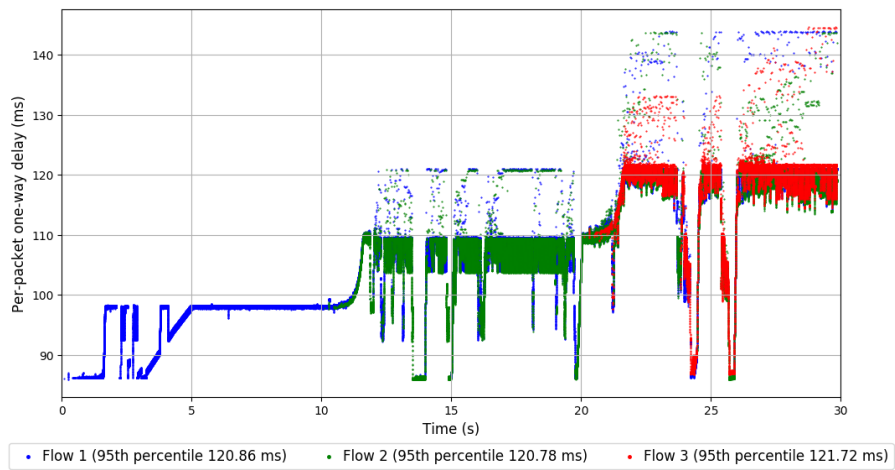
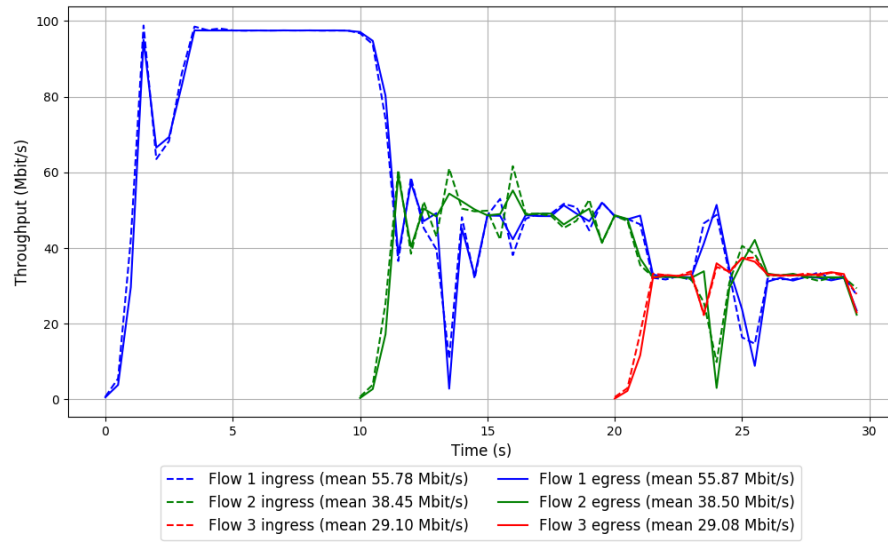


Run 7: Statistics of TCP BBR

Start at: 2018-01-10 01:43:19
End at: 2018-01-10 01:43:49
Local clock offset: 2.361 ms
Remote clock offset: -2.813 ms

Below is generated by plot.py at 2018-01-10 06:11:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 120.997 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 55.87 Mbit/s
95th percentile per-packet one-way delay: 120.856 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 120.775 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 121.719 ms
Loss rate: 2.22%

Run 7: Report of TCP BBR — Data Link

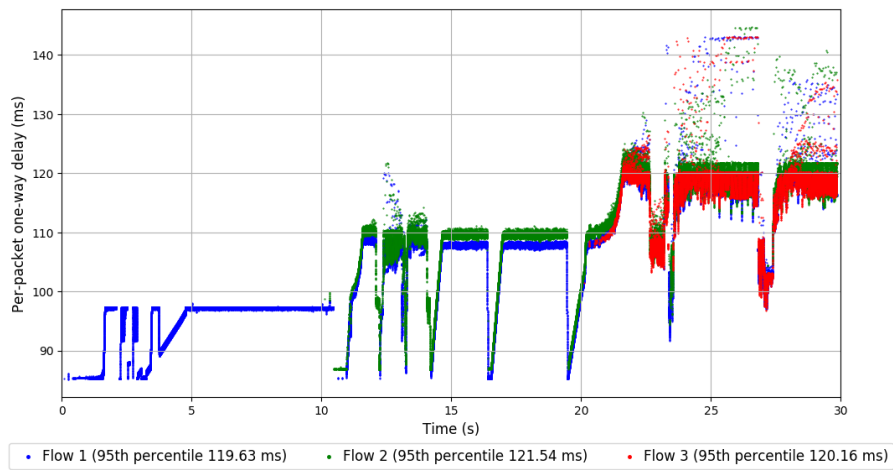
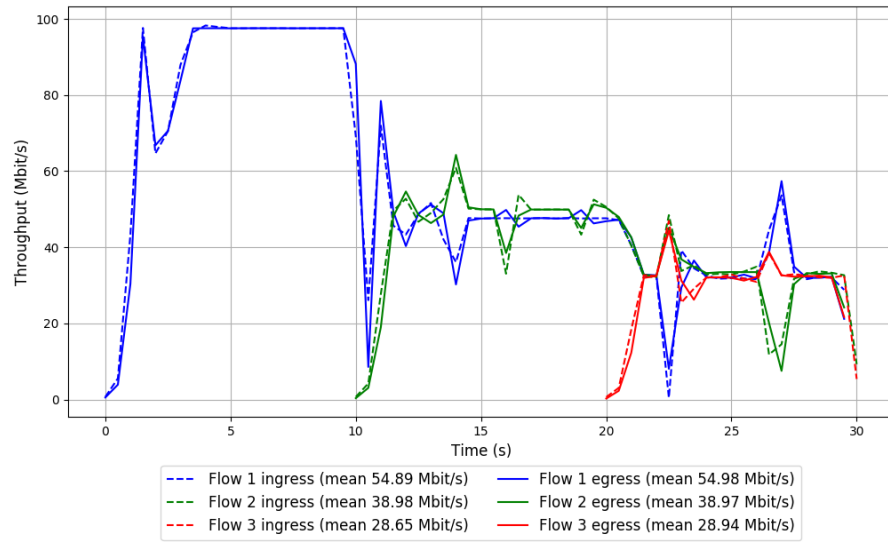


Run 8: Statistics of TCP BBR

Start at: 2018-01-10 02:02:54
End at: 2018-01-10 02:03:24
Local clock offset: 2.107 ms
Remote clock offset: -3.152 ms

Below is generated by plot.py at 2018-01-10 06:11:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.27 Mbit/s
95th percentile per-packet one-way delay: 120.166 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 54.98 Mbit/s
95th percentile per-packet one-way delay: 119.629 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 121.544 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 120.159 ms
Loss rate: 4.05%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-10 02:22:29

End at: 2018-01-10 02:22:59

Local clock offset: 2.186 ms

Remote clock offset: 1.251 ms

Below is generated by plot.py at 2018-01-10 06:13:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 117.093 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 117.020 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 37.87 Mbit/s

95th percentile per-packet one-way delay: 115.604 ms

Loss rate: 0.87%

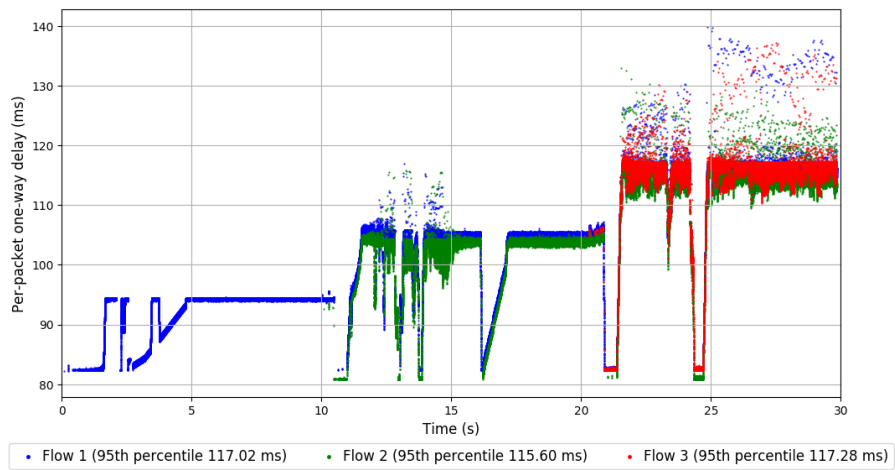
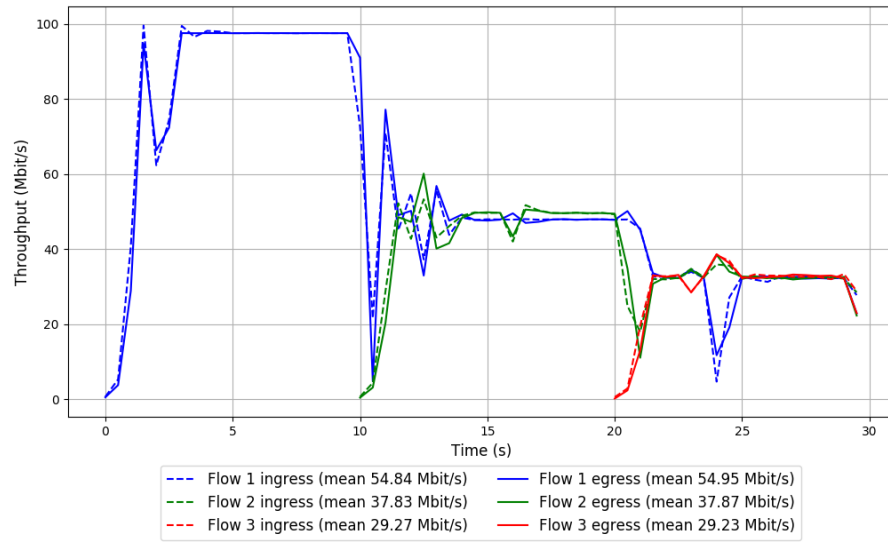
-- Flow 3:

Average throughput: 29.23 Mbit/s

95th percentile per-packet one-way delay: 117.275 ms

Loss rate: 2.31%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-10 02:42:05

End at: 2018-01-10 02:42:35

Local clock offset: 2.123 ms

Remote clock offset: 1.048 ms

Below is generated by plot.py at 2018-01-10 06:13:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 115.788 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 115.335 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 115.871 ms

Loss rate: 0.61%

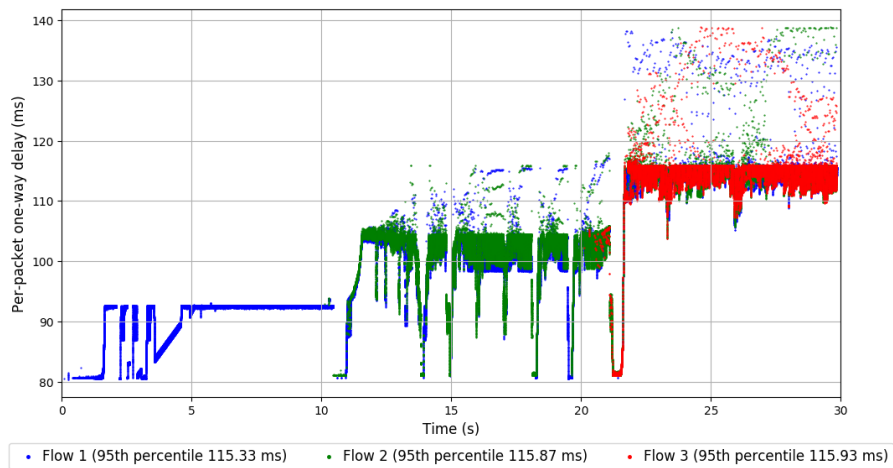
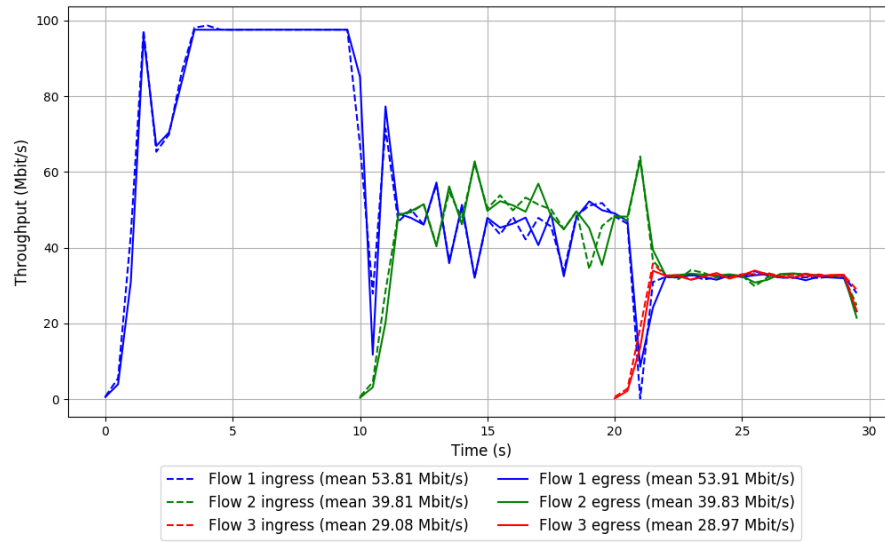
-- Flow 3:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 115.932 ms

Loss rate: 2.35%

Run 10: Report of TCP BBR — Data Link

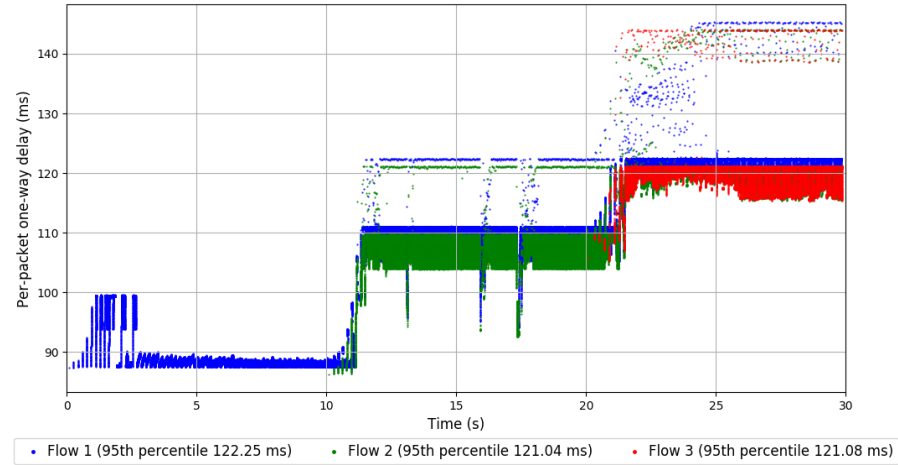
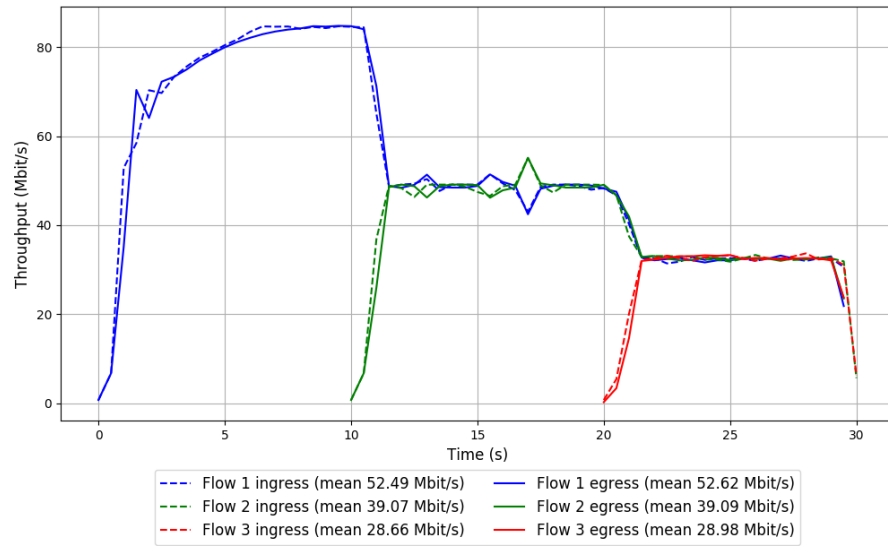


Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 23:41:16
End at: 2018-01-09 23:41:46
Local clock offset: 1.115 ms
Remote clock offset: -3.417 ms

Below is generated by plot.py at 2018-01-10 06:14:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 121.941 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 122.255 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: 121.036 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 28.98 Mbit/s
95th percentile per-packet one-way delay: 121.076 ms
Loss rate: 3.76%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

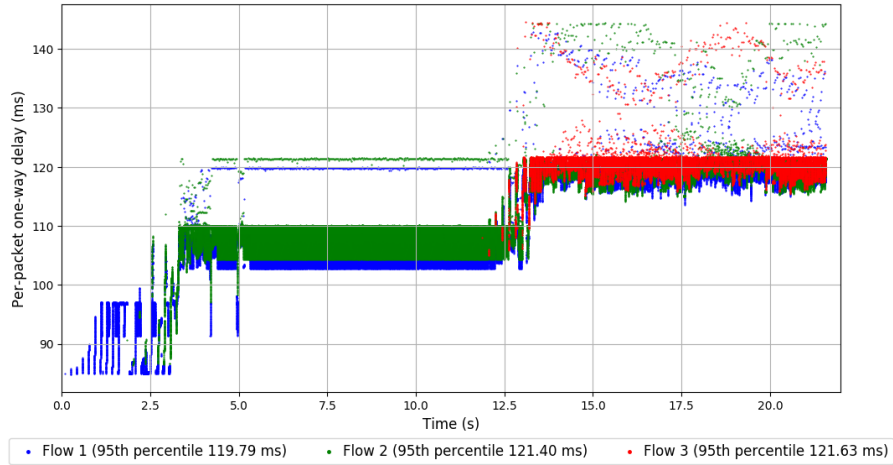
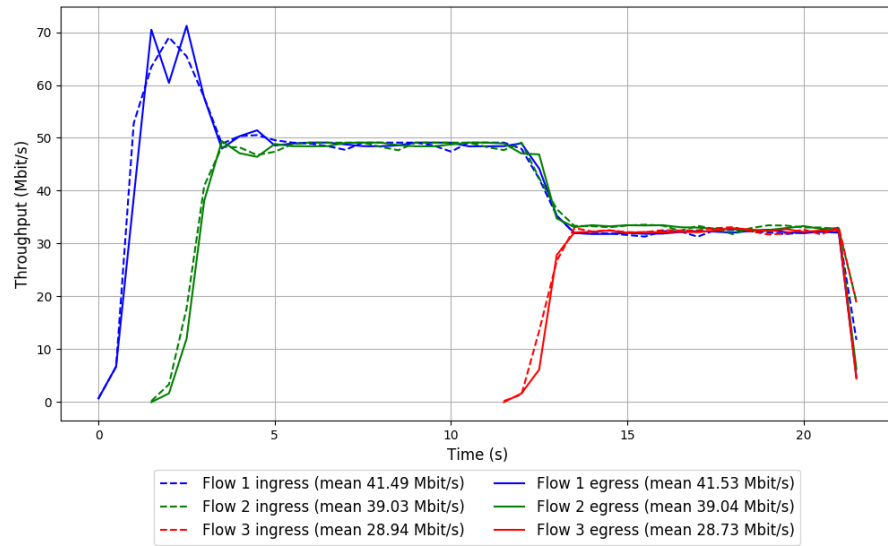
Start at: 2018-01-10 00:01:10

End at: 2018-01-10 00:01:40

Local clock offset: 1.568 ms

Remote clock offset: -2.42 ms

Run 2: Report of TCP Cubic — Data Link

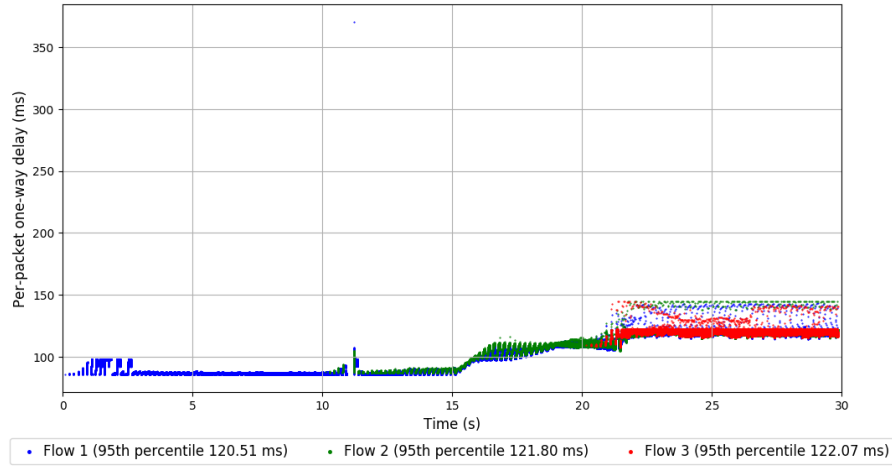
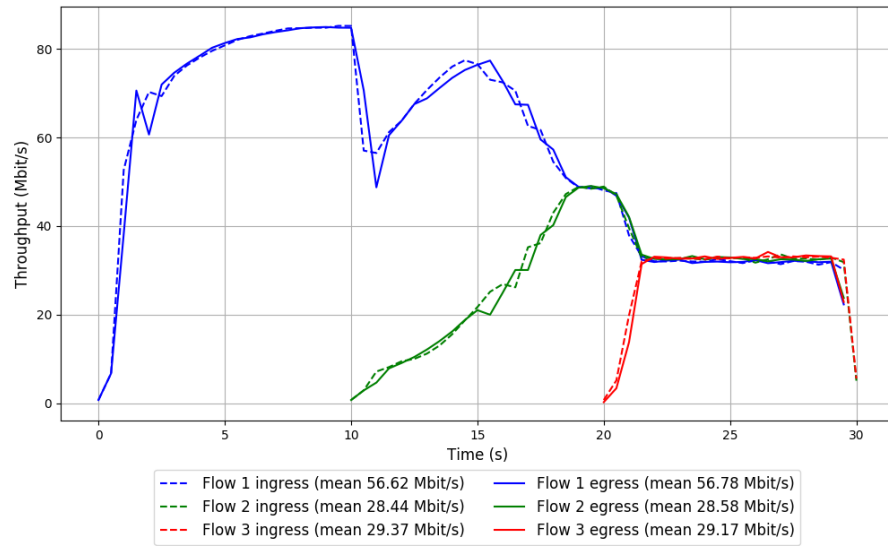


Run 3: Statistics of TCP Cubic

Start at: 2018-01-10 00:20:48
End at: 2018-01-10 00:21:18
Local clock offset: 2.115 ms
Remote clock offset: -2.604 ms

Below is generated by plot.py at 2018-01-10 06:14:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.23 Mbit/s
95th percentile per-packet one-way delay: 121.773 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 120.507 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 121.802 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 122.072 ms
Loss rate: 3.71%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-10 00:40:33

End at: 2018-01-10 00:41:03

Local clock offset: 2.5 ms

Remote clock offset: 2.379 ms

Below is generated by plot.py at 2018-01-10 06:14:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 116.318 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 52.54 Mbit/s

95th percentile per-packet one-way delay: 116.812 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 115.302 ms

Loss rate: 1.41%

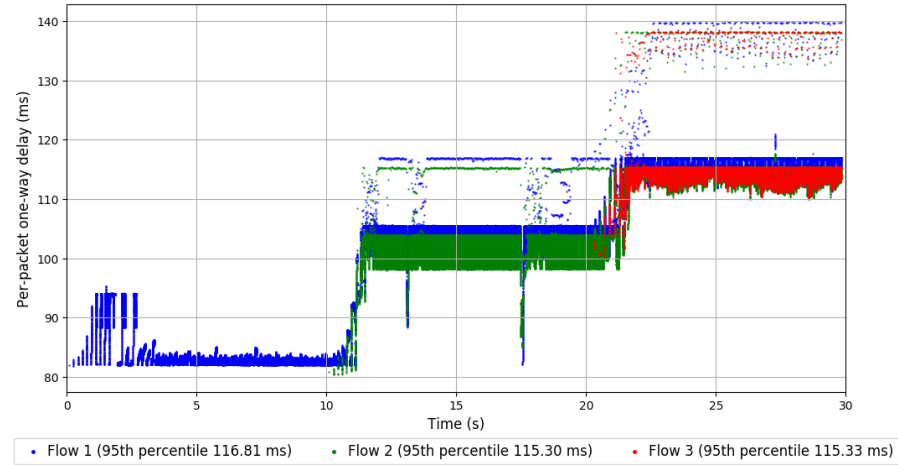
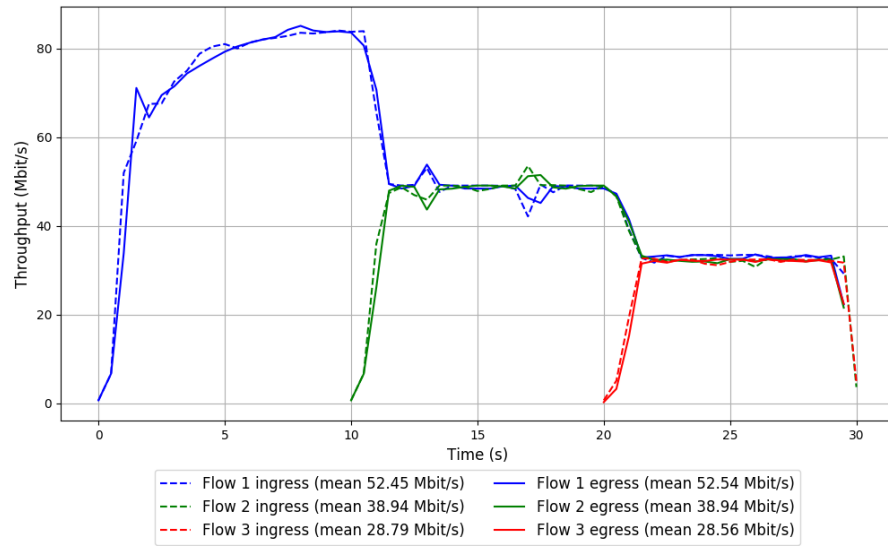
-- Flow 3:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 115.335 ms

Loss rate: 3.77%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-10 01:00:12

End at: 2018-01-10 01:00:42

Local clock offset: 2.094 ms

Remote clock offset: 1.886 ms

Below is generated by plot.py at 2018-01-10 06:14:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 116.757 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 115.720 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 116.854 ms

Loss rate: 1.41%

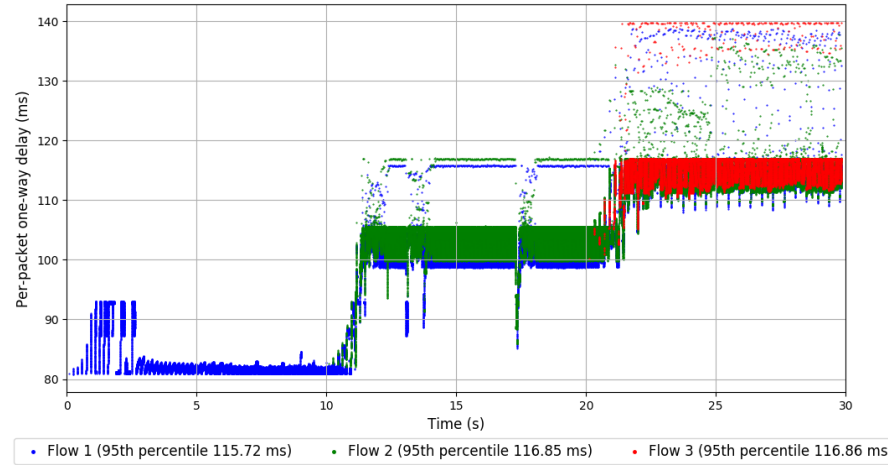
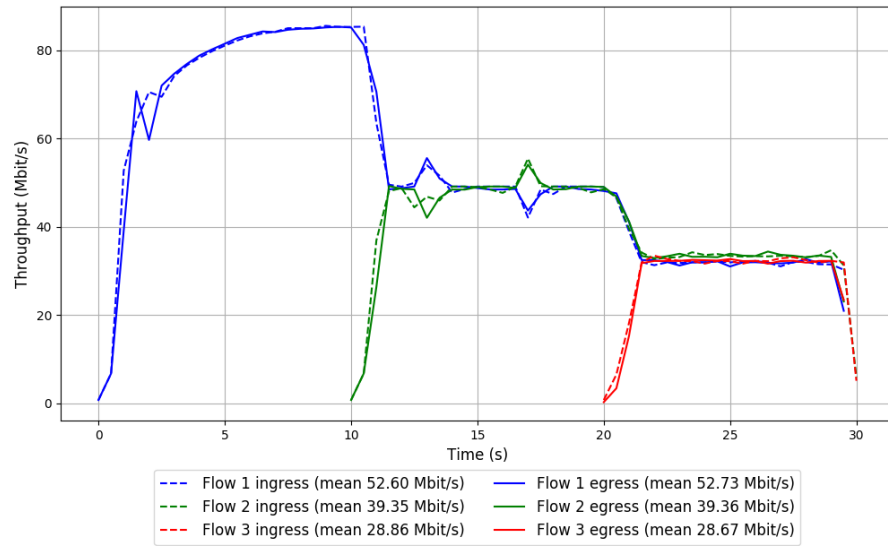
-- Flow 3:

Average throughput: 28.67 Mbit/s

95th percentile per-packet one-way delay: 116.865 ms

Loss rate: 3.78%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-10 01:19:49

End at: 2018-01-10 01:20:19

Local clock offset: 2.251 ms

Remote clock offset: 1.979 ms

Below is generated by plot.py at 2018-01-10 06:14:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 116.725 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 52.58 Mbit/s

95th percentile per-packet one-way delay: 116.509 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.33 Mbit/s

95th percentile per-packet one-way delay: 116.379 ms

Loss rate: 1.50%

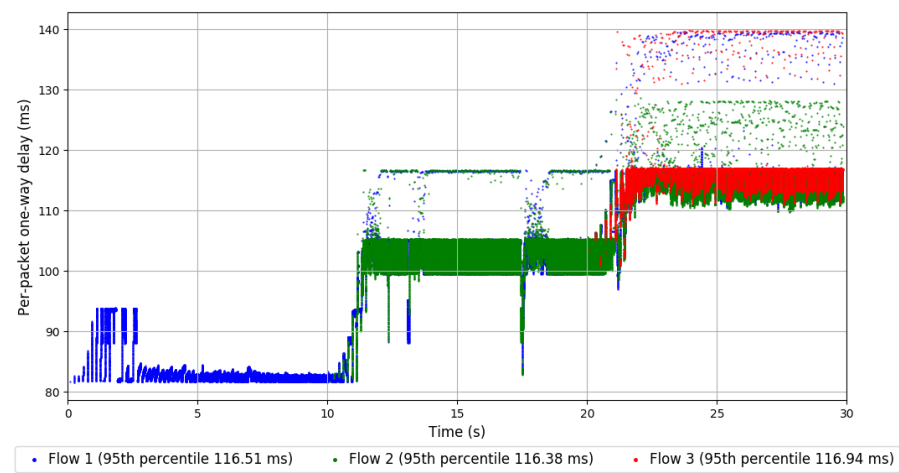
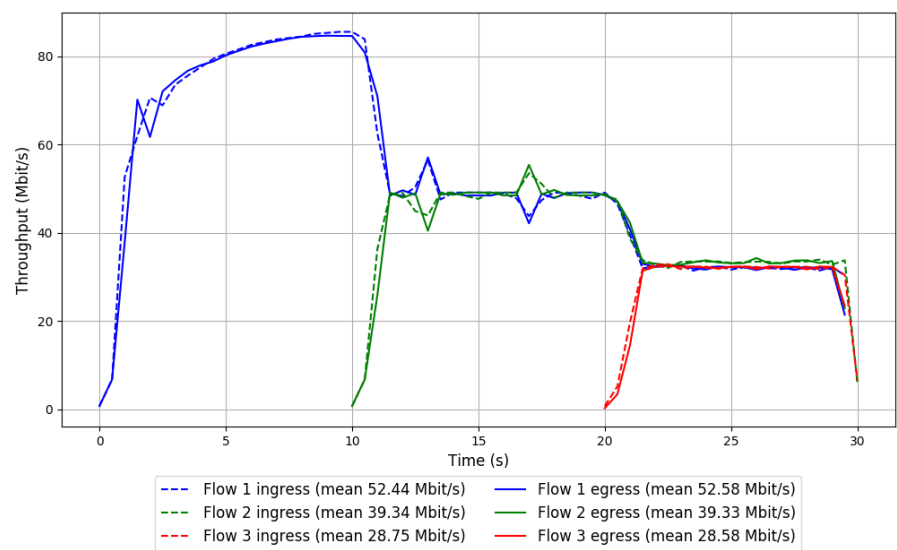
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 116.938 ms

Loss rate: 3.78%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

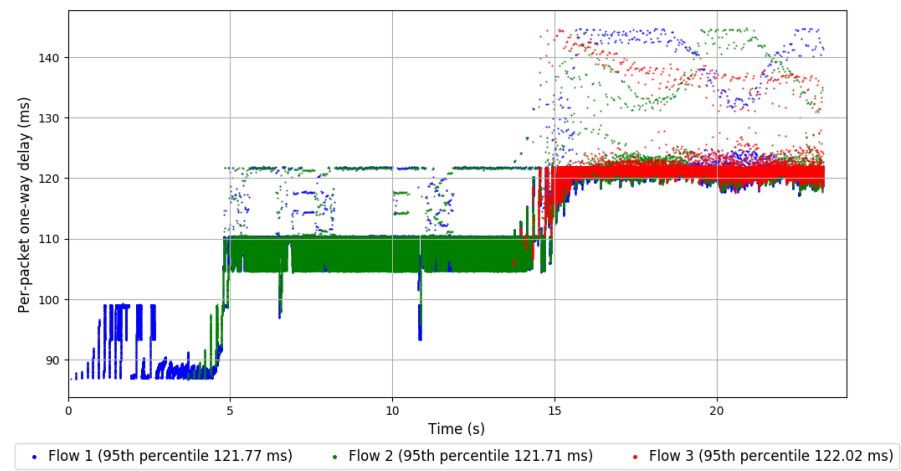
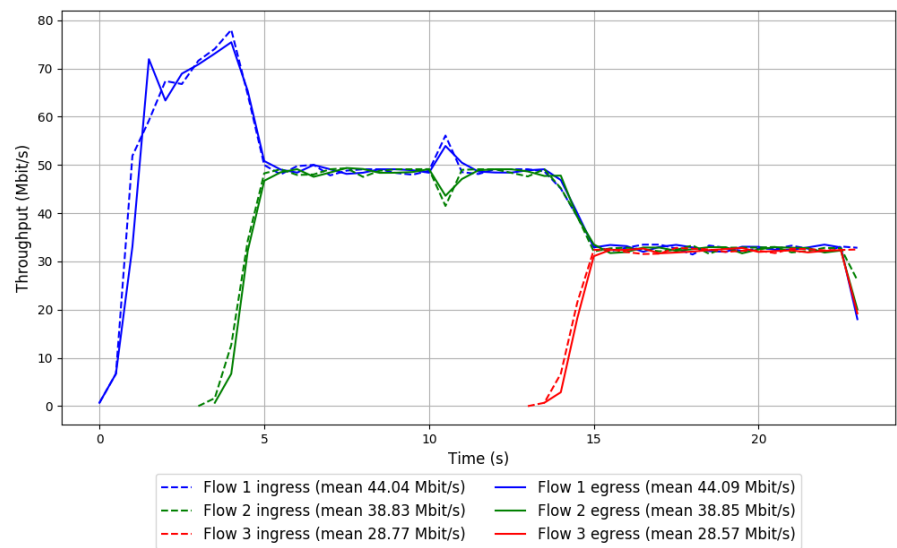
Start at: 2018-01-10 01:39:26

End at: 2018-01-10 01:39:56

Local clock offset: 2.503 ms

Remote clock offset: -2.746 ms

Run 7: Report of TCP Cubic — Data Link

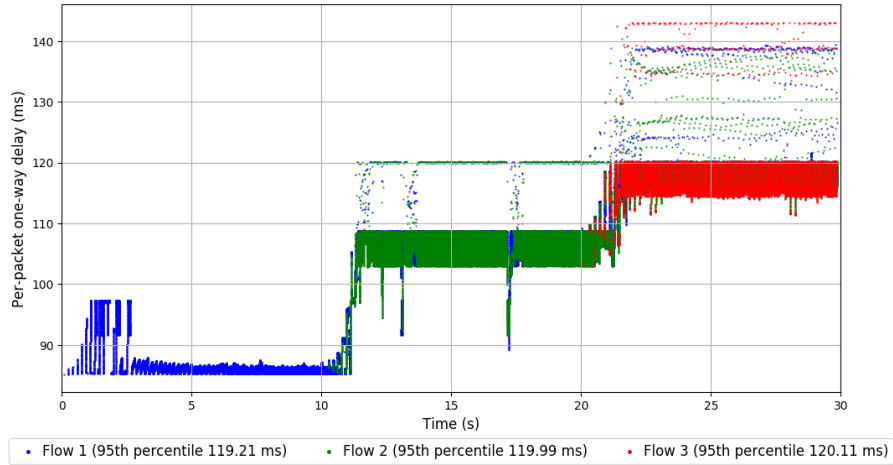
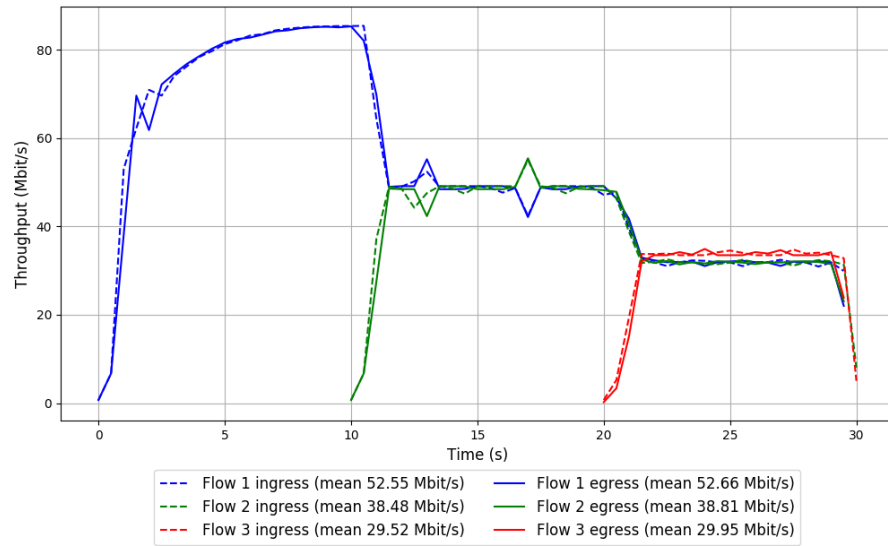


Run 8: Statistics of TCP Cubic

Start at: 2018-01-10 01:59:00
End at: 2018-01-10 01:59:30
Local clock offset: 2.173 ms
Remote clock offset: -2.817 ms

Below is generated by plot.py at 2018-01-10 06:16:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 119.992 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 52.66 Mbit/s
95th percentile per-packet one-way delay: 119.211 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 119.986 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 120.113 ms
Loss rate: 3.68%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-10 02:18:34

End at: 2018-01-10 02:19:04

Local clock offset: 2.112 ms

Remote clock offset: 1.191 ms

Below is generated by plot.py at 2018-01-10 06:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.00 Mbit/s

95th percentile per-packet one-way delay: 116.983 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 115.621 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 116.909 ms

Loss rate: 1.48%

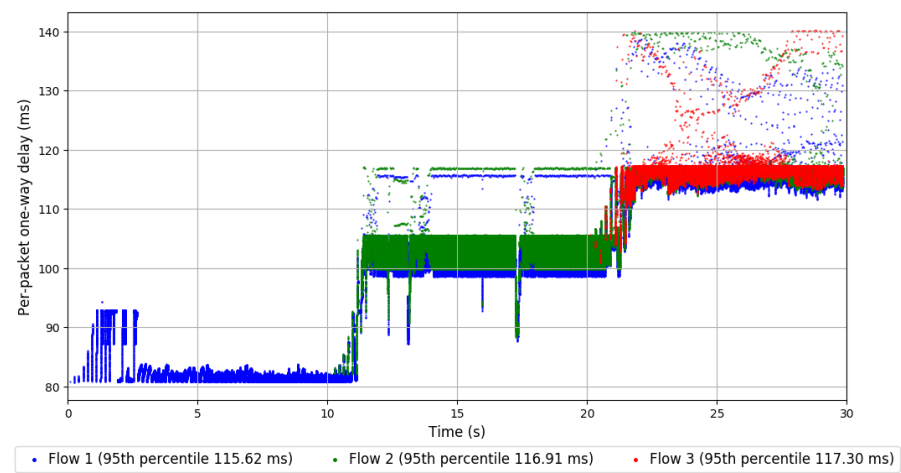
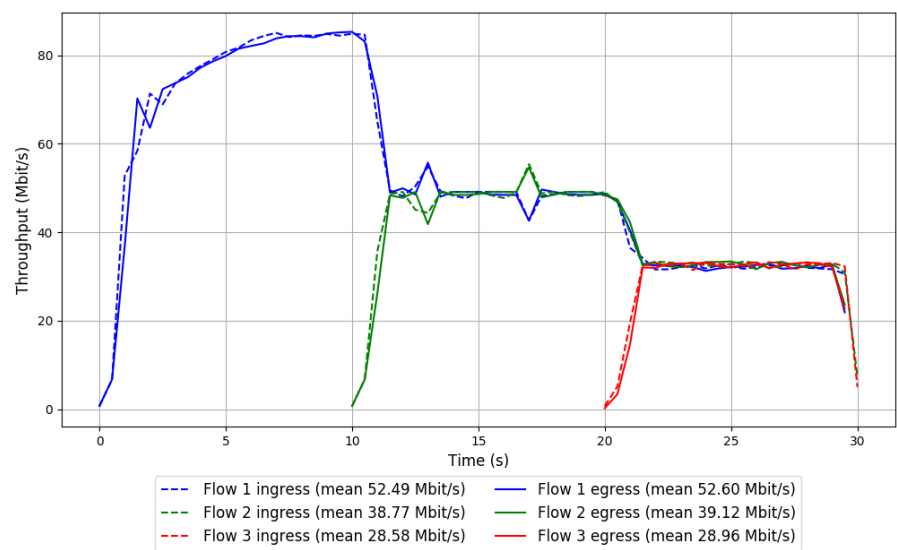
-- Flow 3:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 117.302 ms

Loss rate: 3.76%

Run 9: Report of TCP Cubic — Data Link

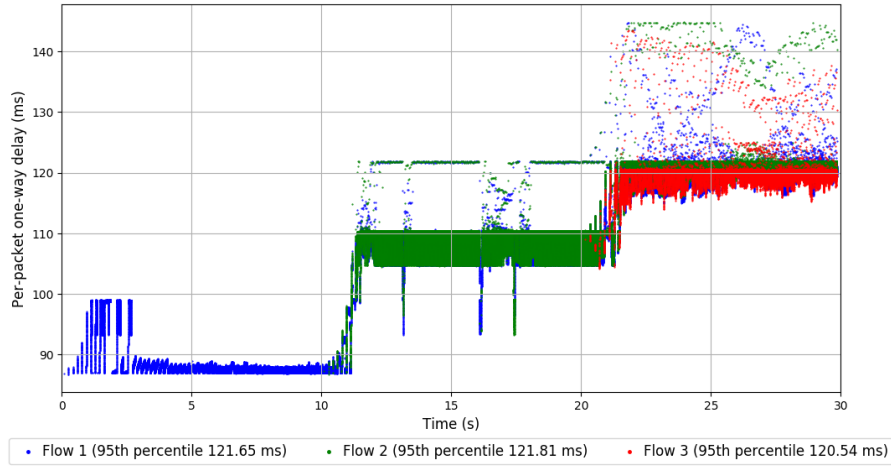
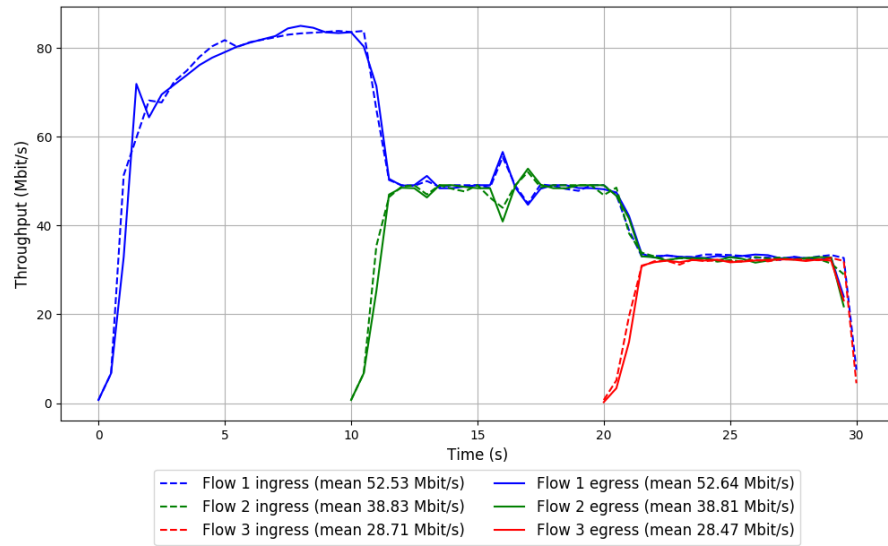


Run 10: Statistics of TCP Cubic

Start at: 2018-01-10 02:38:11
End at: 2018-01-10 02:38:41
Local clock offset: 2.25 ms
Remote clock offset: -3.752 ms

Below is generated by plot.py at 2018-01-10 06:16:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 121.751 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 121.646 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 121.815 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 120.537 ms
Loss rate: 3.75%

Run 10: Report of TCP Cubic — Data Link

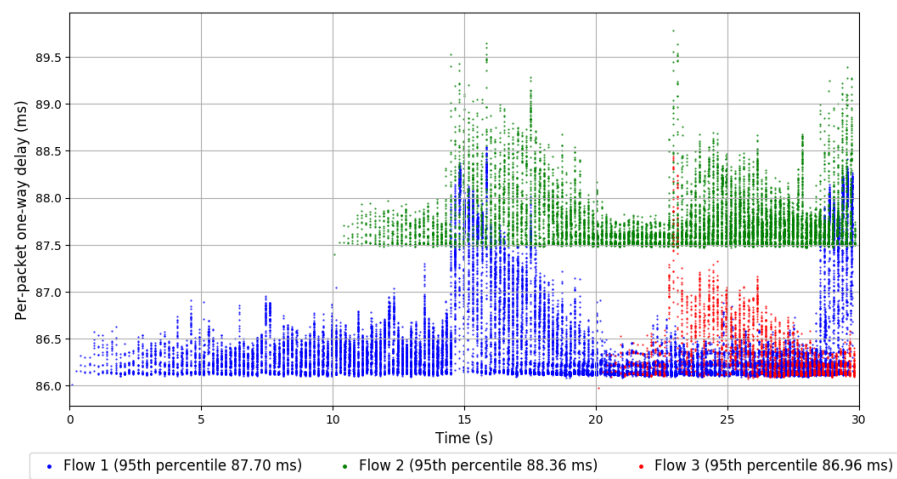
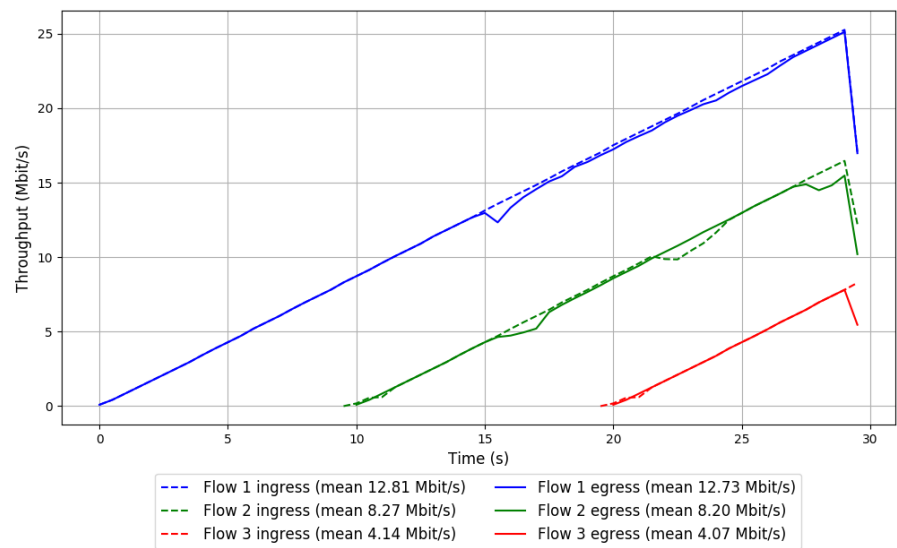


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 23:54:37
End at: 2018-01-09 23:55:07
Local clock offset: 1.45 ms
Remote clock offset: -3.205 ms

# Below is generated by plot.py at 2018-01-10 06:16:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.47 Mbit/s
95th percentile per-packet one-way delay: 88.022 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 87.704 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 88.365 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 86.962 ms
Loss rate: 3.44%
```


Run 1: Report of LEDBAT — Data Link

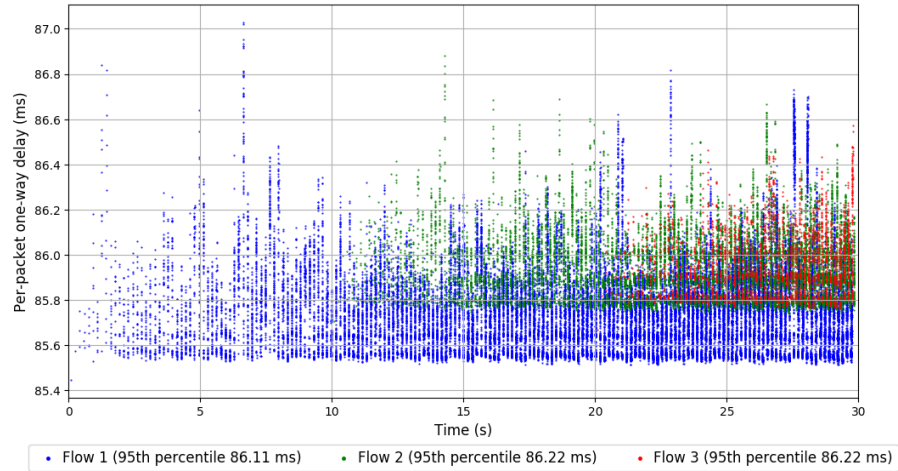
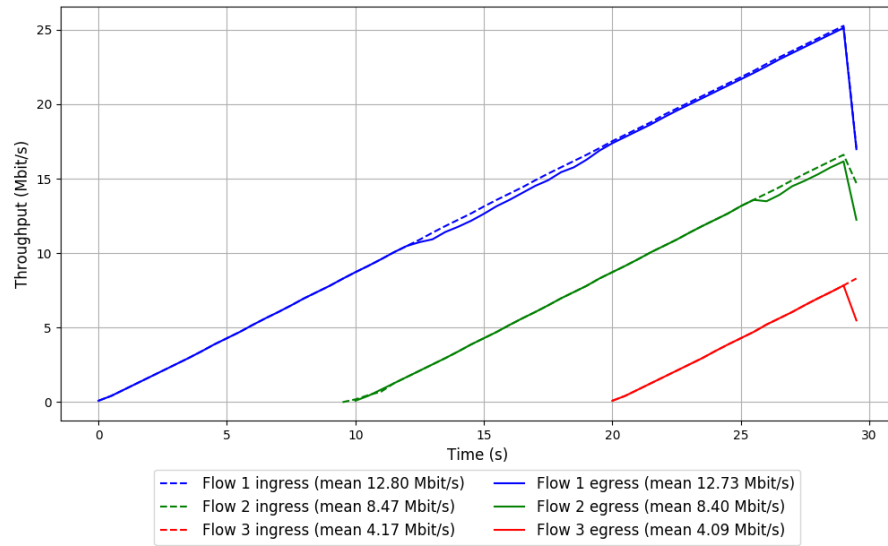


Run 2: Statistics of LEDBAT

Start at: 2018-01-10 00:14:16
End at: 2018-01-10 00:14:46
Local clock offset: 1.943 ms
Remote clock offset: -2.686 ms

Below is generated by plot.py at 2018-01-10 06:16:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.60 Mbit/s
95th percentile per-packet one-way delay: 86.170 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 86.106 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 86.220 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 86.225 ms
Loss rate: 3.43%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-10 00:34:01

End at: 2018-01-10 00:34:31

Local clock offset: 2.411 ms

Remote clock offset: 2.156 ms

Below is generated by plot.py at 2018-01-10 06:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.98 Mbit/s

95th percentile per-packet one-way delay: 83.272 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 12.26 Mbit/s

95th percentile per-packet one-way delay: 83.191 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 83.465 ms

Loss rate: 1.70%

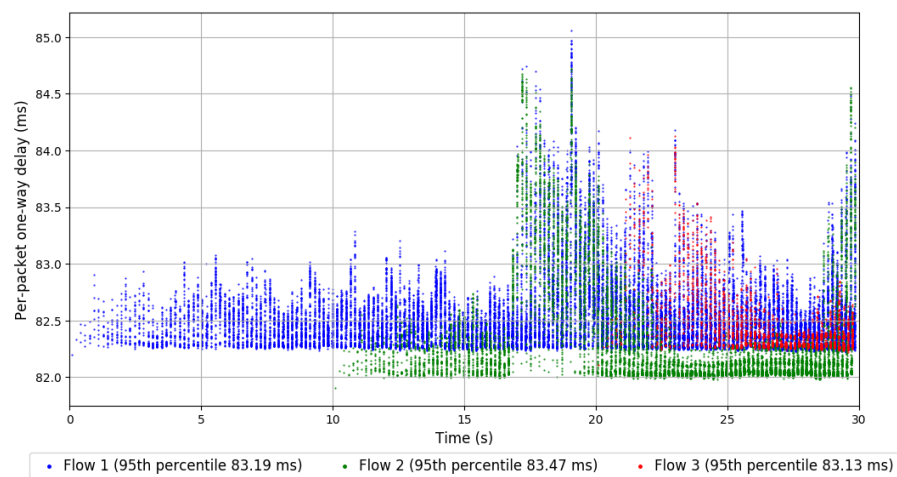
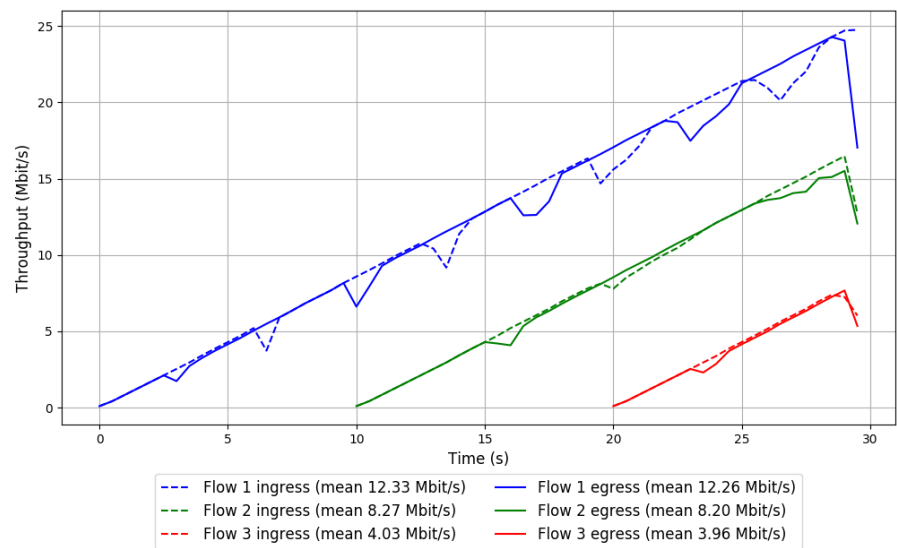
-- Flow 3:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 83.134 ms

Loss rate: 3.50%

Run 3: Report of LEDBAT — Data Link

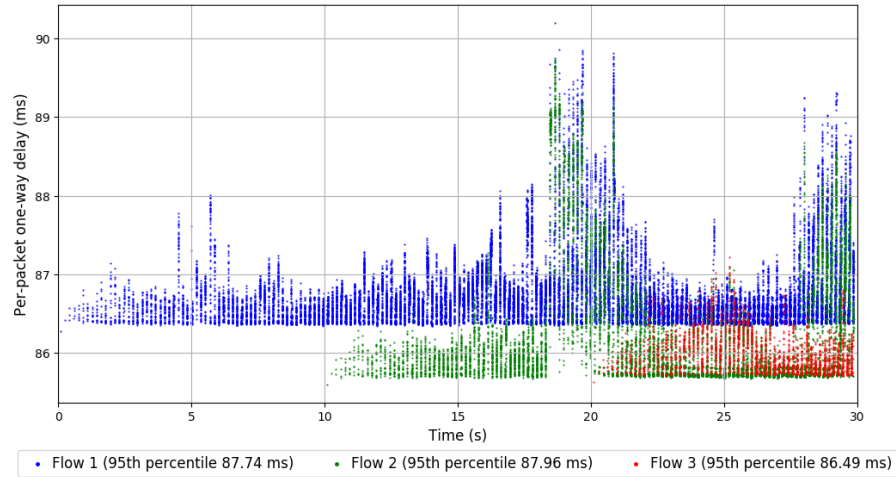
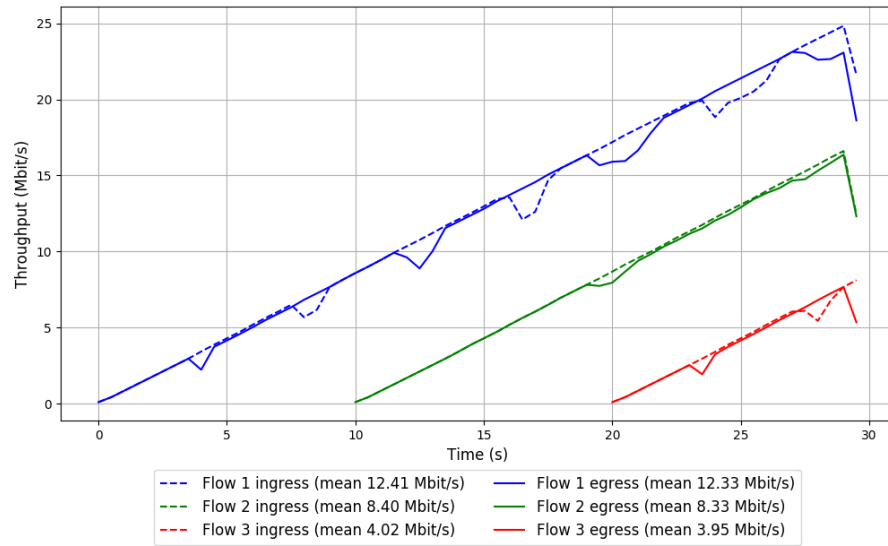


Run 4: Statistics of LEDBAT

Start at: 2018-01-10 00:53:40
End at: 2018-01-10 00:54:10
Local clock offset: 2.247 ms
Remote clock offset: -2.859 ms

Below is generated by plot.py at 2018-01-10 06:16:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 87.750 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 87.737 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 87.961 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 86.490 ms
Loss rate: 3.50%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-10 01:13:18

End at: 2018-01-10 01:13:48

Local clock offset: 2.157 ms

Remote clock offset: 2.284 ms

Below is generated by plot.py at 2018-01-10 06:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.20 Mbit/s

95th percentile per-packet one-way delay: 82.286 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 81.595 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 82.719 ms

Loss rate: 1.70%

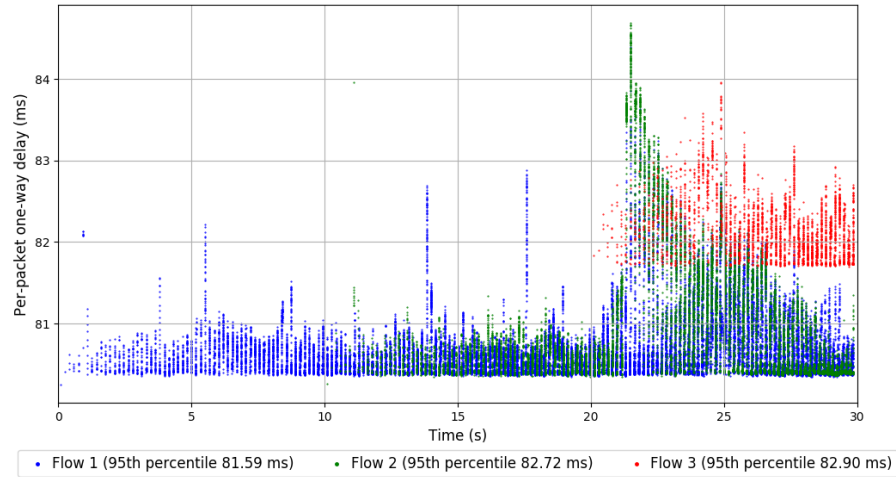
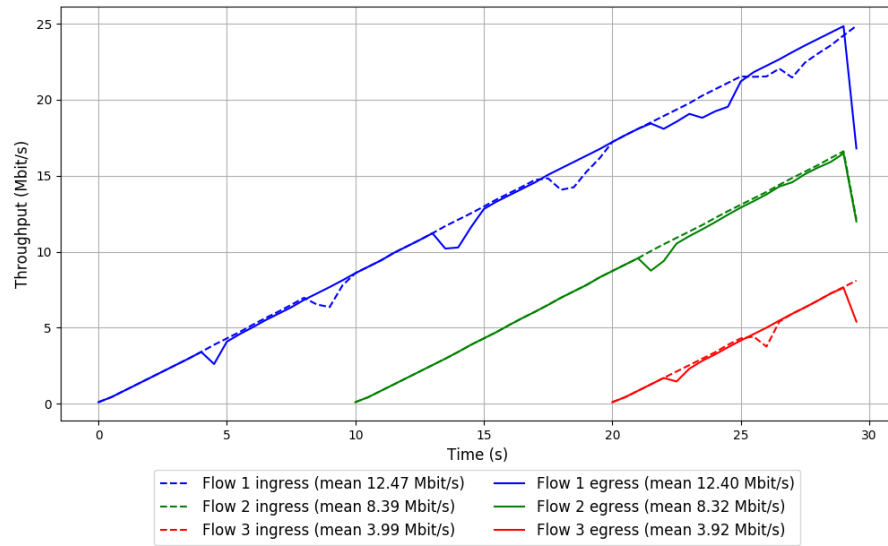
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 82.902 ms

Loss rate: 3.47%

Run 5: Report of LEDBAT — Data Link

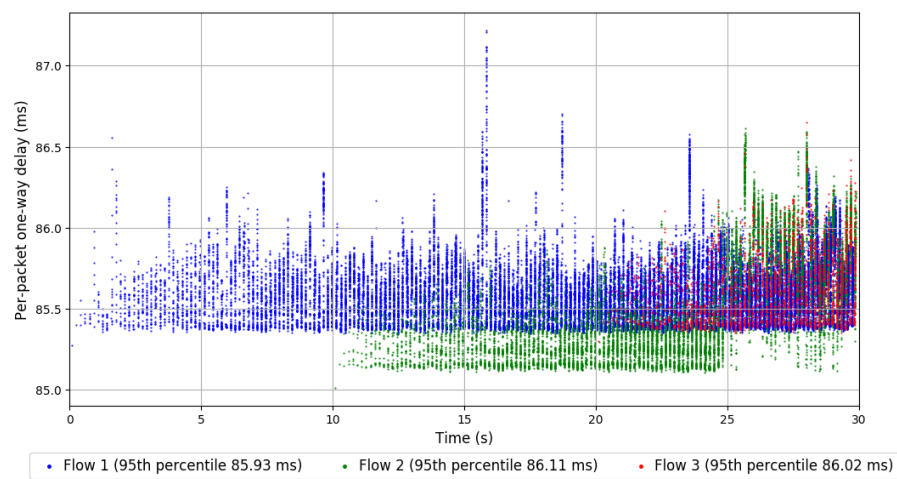
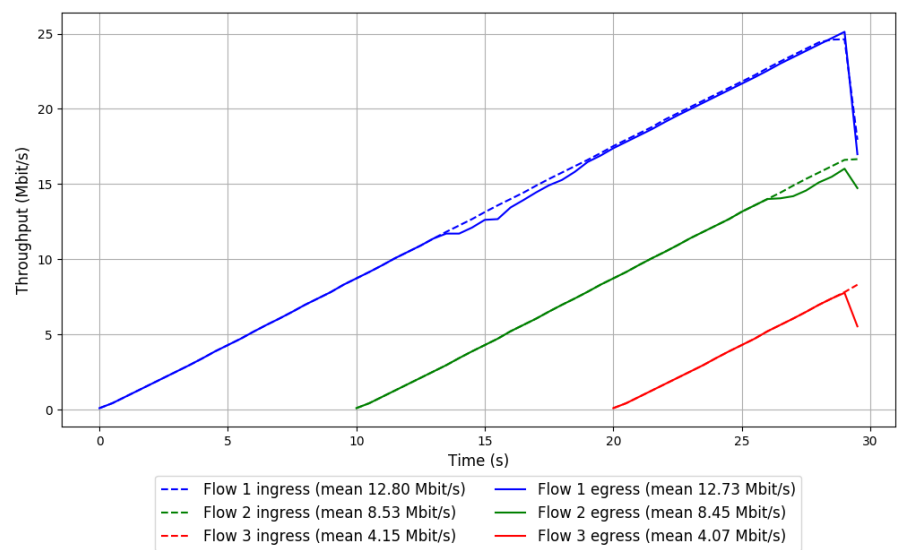


Run 6: Statistics of LEDBAT

Start at: 2018-01-10 01:32:55
End at: 2018-01-10 01:33:25
Local clock offset: 2.543 ms
Remote clock offset: -2.305 ms

Below is generated by plot.py at 2018-01-10 06:16:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 86.017 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 85.928 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 86.114 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 86.018 ms
Loss rate: 3.43%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-10 01:52:28

End at: 2018-01-10 01:52:58

Local clock offset: 2.279 ms

Remote clock offset: 1.752 ms

Below is generated by plot.py at 2018-01-10 06:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 82.554 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 82.229 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.05 Mbit/s

95th percentile per-packet one-way delay: 82.857 ms

Loss rate: 1.70%

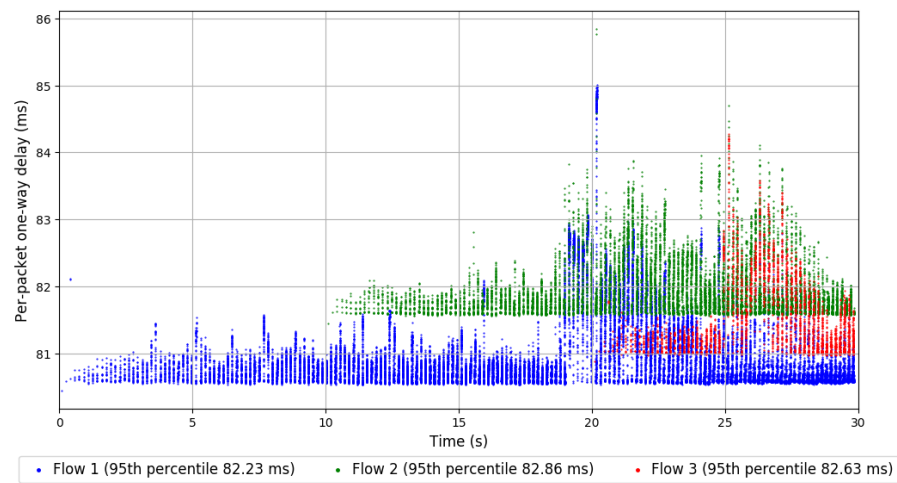
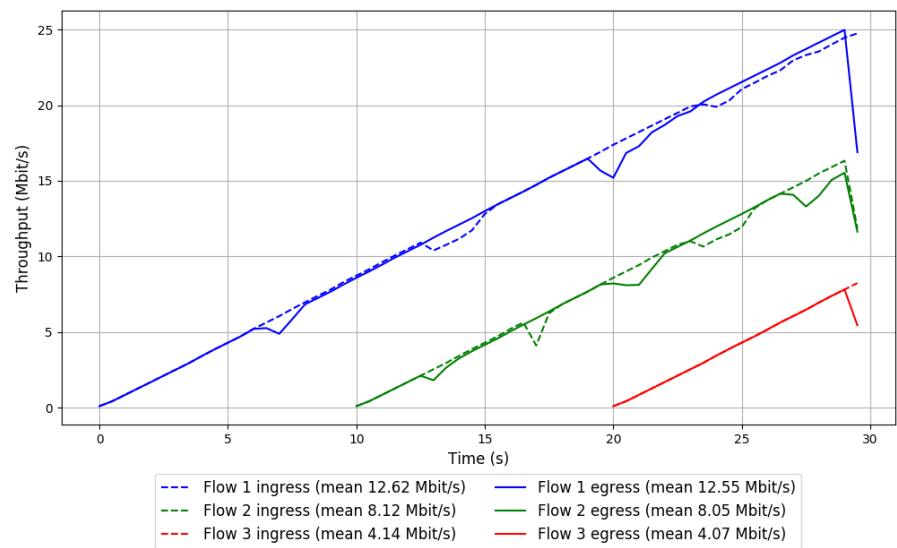
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 82.634 ms

Loss rate: 3.41%

Run 7: Report of LEDBAT — Data Link

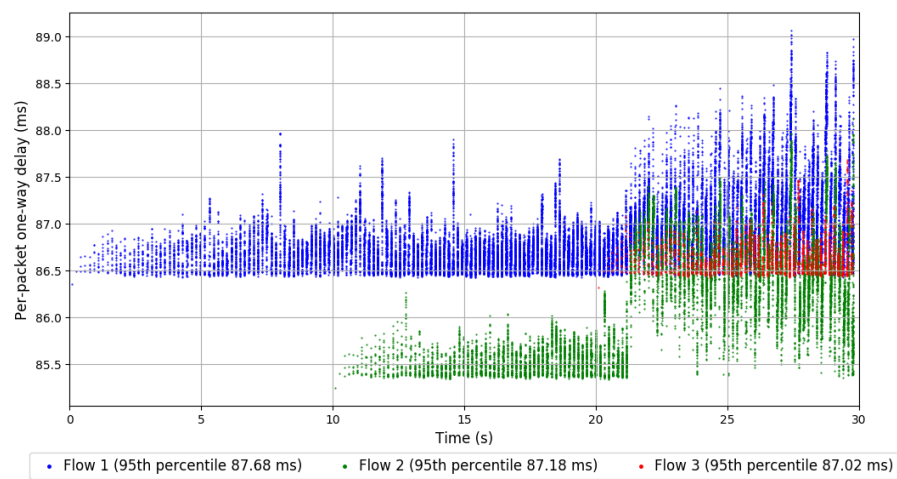
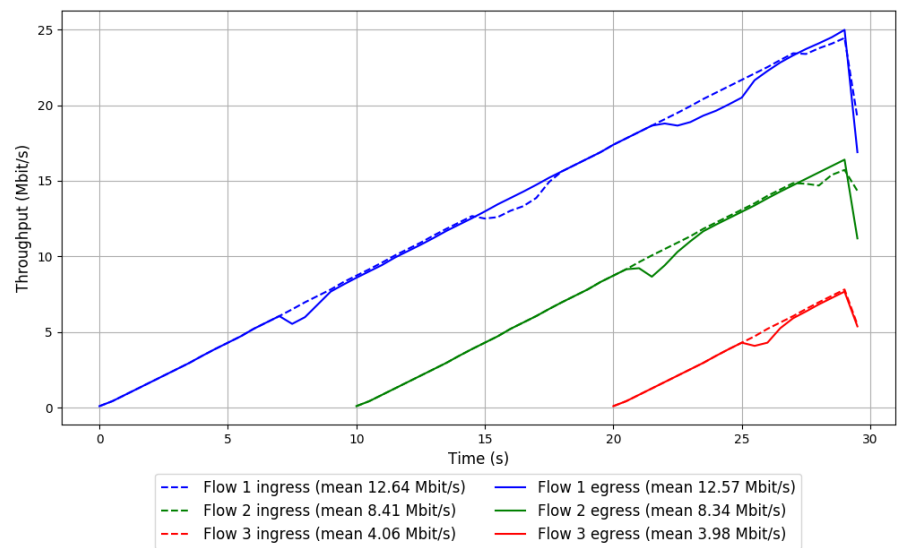


Run 8: Statistics of LEDBAT

Start at: 2018-01-10 02:12:02
End at: 2018-01-10 02:12:32
Local clock offset: 2.134 ms
Remote clock offset: -3.319 ms

Below is generated by plot.py at 2018-01-10 06:16:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.38 Mbit/s
95th percentile per-packet one-way delay: 87.525 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 87.679 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 87.181 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 87.020 ms
Loss rate: 3.49%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-10 02:31:40

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

Local clock offset: 2.25 ms

Remote clock offset: 0.912 ms

Below is generated by plot.py at 2018-01-10 06:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.42 Mbit/s

95th percentile per-packet one-way delay: 83.569 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 12.53 Mbit/s

95th percentile per-packet one-way delay: 82.492 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 84.287 ms

Loss rate: 1.69%

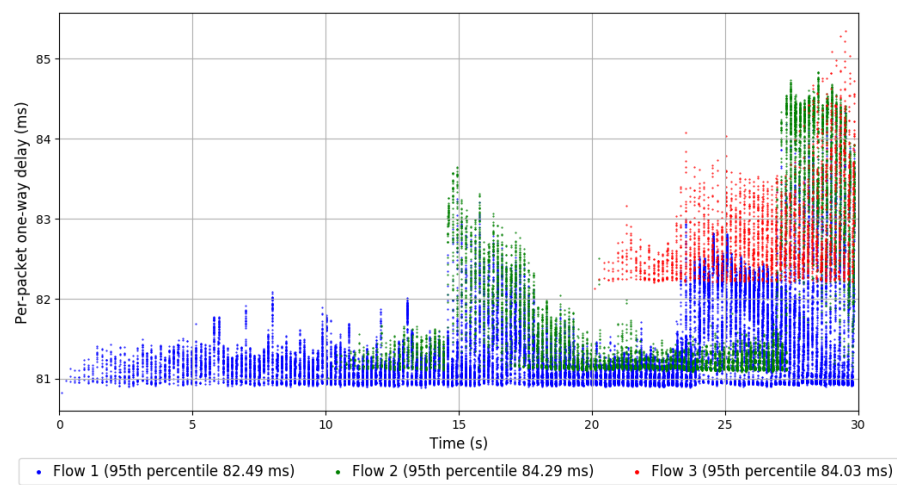
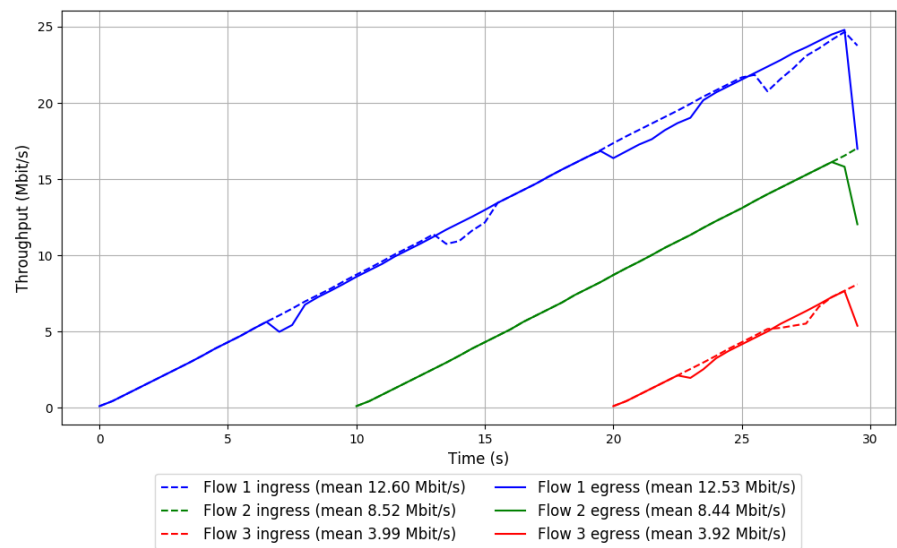
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 84.027 ms

Loss rate: 3.47%

Run 9: Report of LEDBAT — Data Link

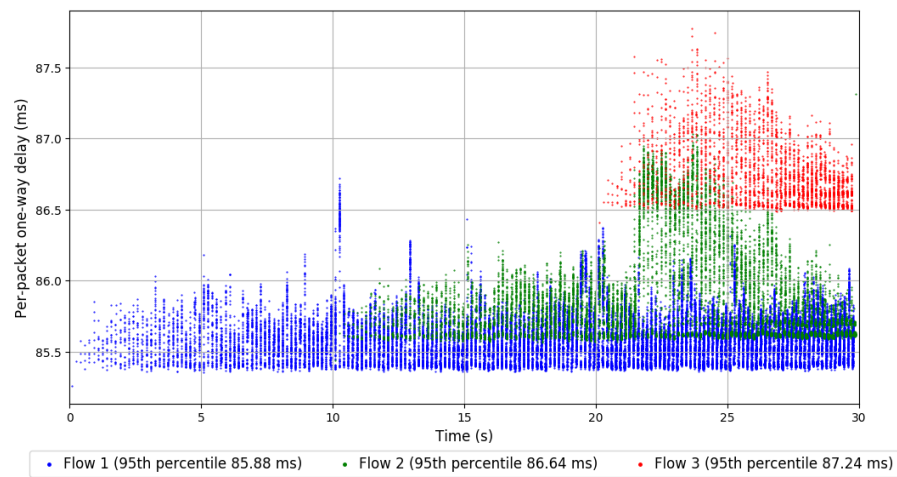
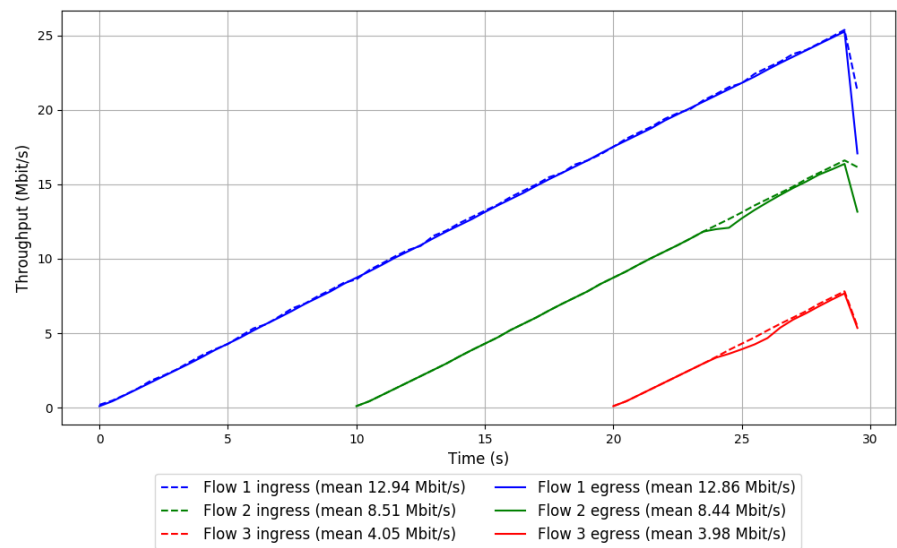


Run 10: Statistics of LEDBAT

Start at: 2018-01-10 02:51:16
End at: 2018-01-10 02:51:46
Local clock offset: 1.757 ms
Remote clock offset: -3.918 ms

Below is generated by plot.py at 2018-01-10 06:16:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 85.879 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 86.645 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 87.241 ms
Loss rate: 3.50%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-01-09 23:46:41

End at: 2018-01-09 23:47:11

Local clock offset: 1.283 ms

Remote clock offset: 2.179 ms

Below is generated by plot.py at 2018-01-10 06:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 114.702 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 55.91 Mbit/s

95th percentile per-packet one-way delay: 113.535 ms

Loss rate: 5.72%

-- Flow 2:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 116.044 ms

Loss rate: 1.23%

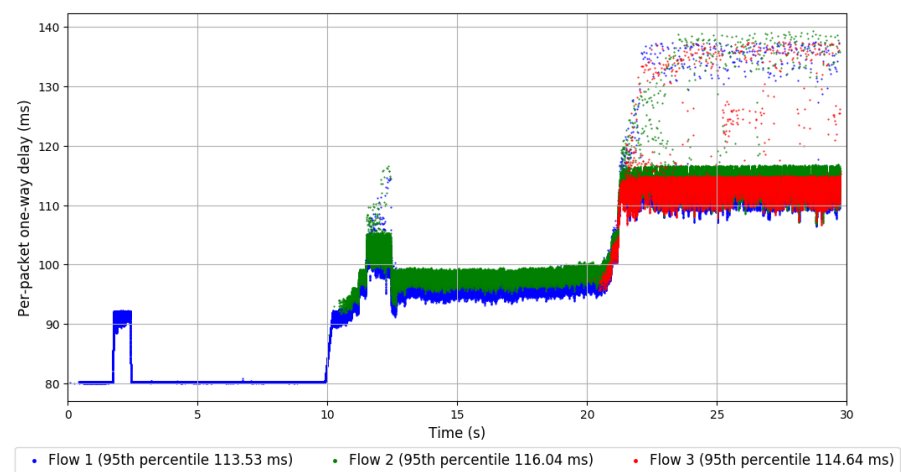
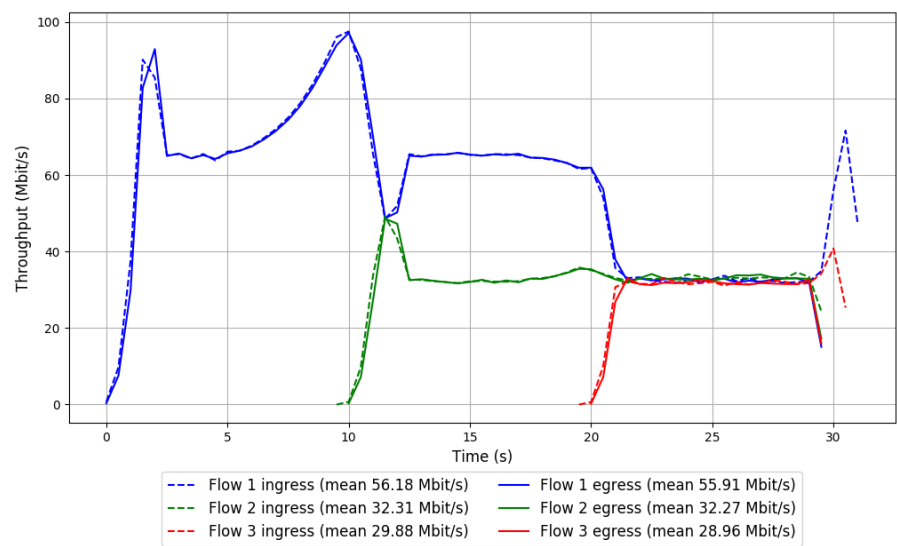
-- Flow 3:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 114.642 ms

Loss rate: 14.06%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-10 00:06:23

End at: 2018-01-10 00:06:53

Local clock offset: 1.687 ms

Remote clock offset: 2.141 ms

Below is generated by plot.py at 2018-01-10 06:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 113.868 ms

Loss rate: 4.62%

-- Flow 1:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 113.333 ms

Loss rate: 3.98%

-- Flow 2:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 113.938 ms

Loss rate: 1.13%

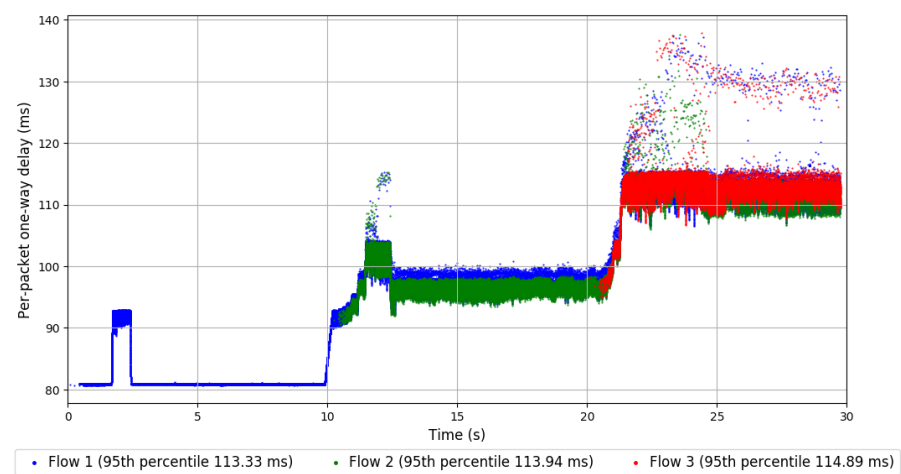
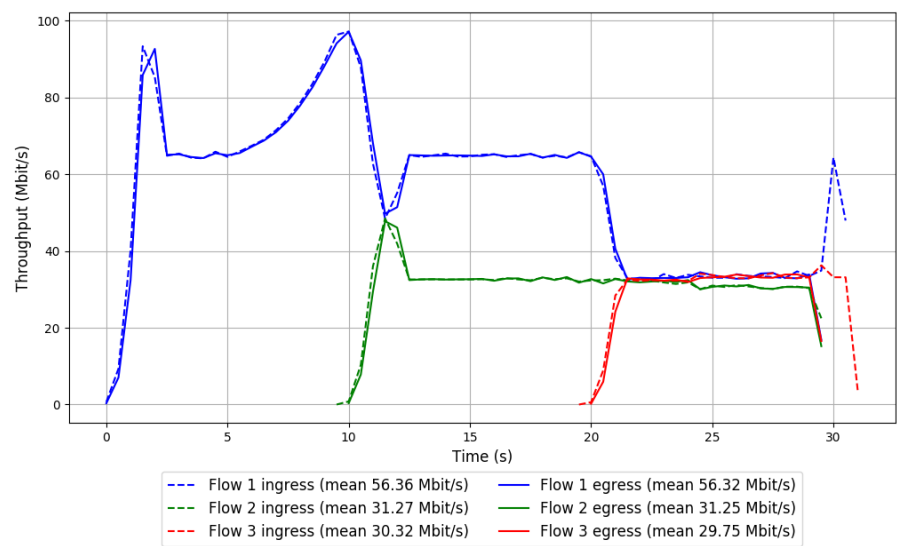
-- Flow 3:

Average throughput: 29.75 Mbit/s

95th percentile per-packet one-way delay: 114.895 ms

Loss rate: 14.38%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-10 00:26:07

End at: 2018-01-10 00:26:37

Local clock offset: 2.268 ms

Remote clock offset: 2.663 ms

Below is generated by plot.py at 2018-01-10 06:18:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 114.298 ms

Loss rate: 3.67%

-- Flow 1:

Average throughput: 56.84 Mbit/s

95th percentile per-packet one-way delay: 113.083 ms

Loss rate: 3.50%

-- Flow 2:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 113.733 ms

Loss rate: 4.67%

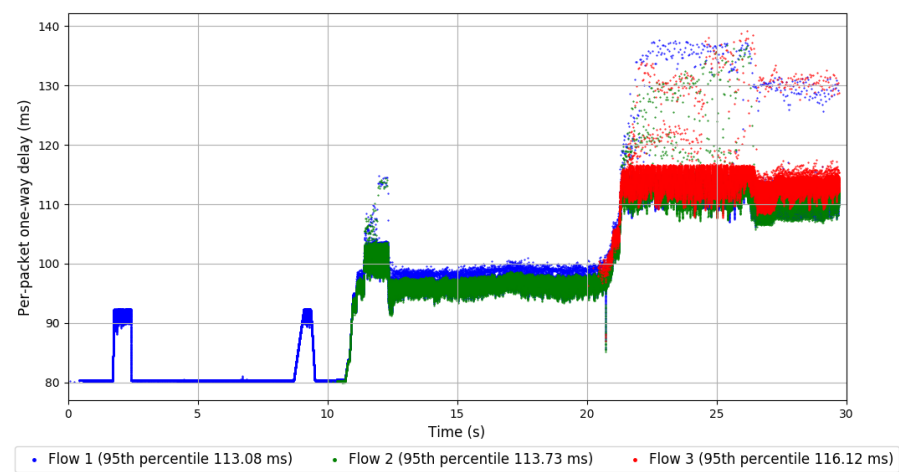
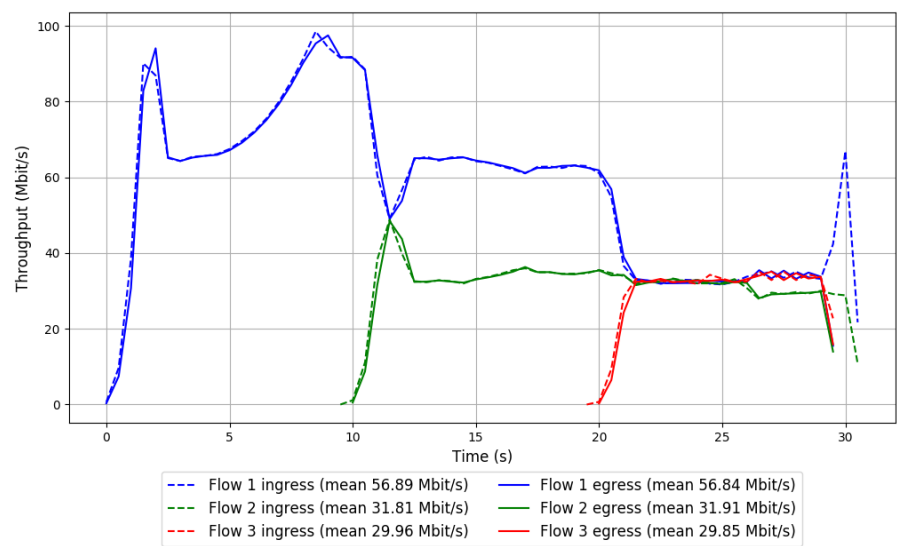
-- Flow 3:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 116.119 ms

Loss rate: 2.50%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-10 00:45:48

End at: 2018-01-10 00:46:18

Local clock offset: 2.386 ms

Remote clock offset: 1.907 ms

Below is generated by plot.py at 2018-01-10 06:18:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 114.645 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 113.624 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 114.888 ms

Loss rate: 2.58%

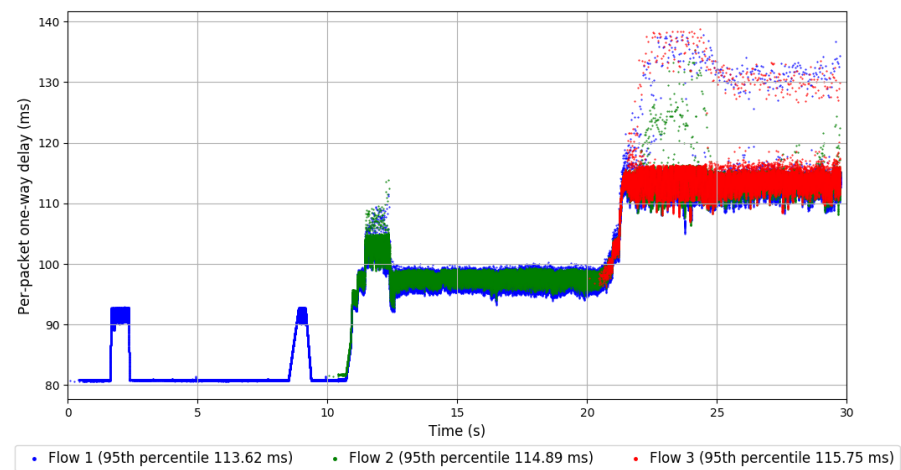
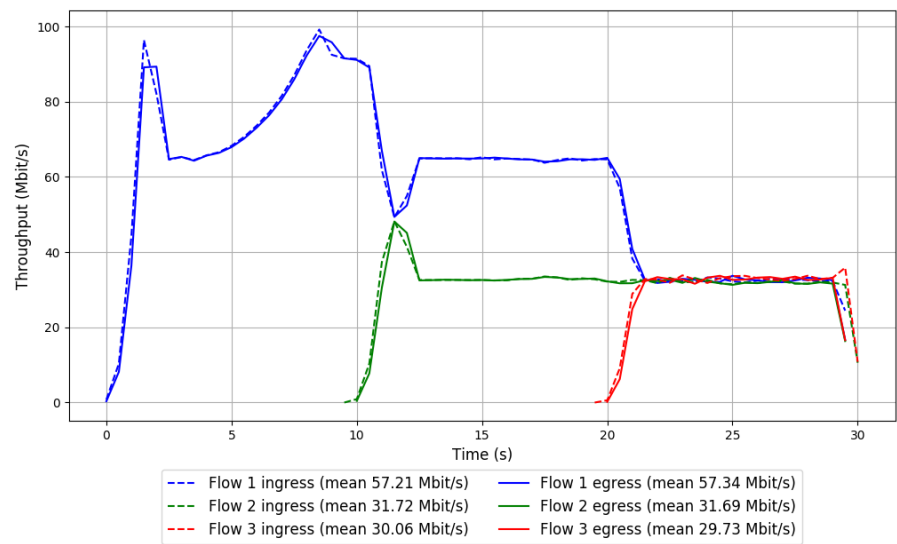
-- Flow 3:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 115.755 ms

Loss rate: 6.20%

Run 4: Report of PCC — Data Link

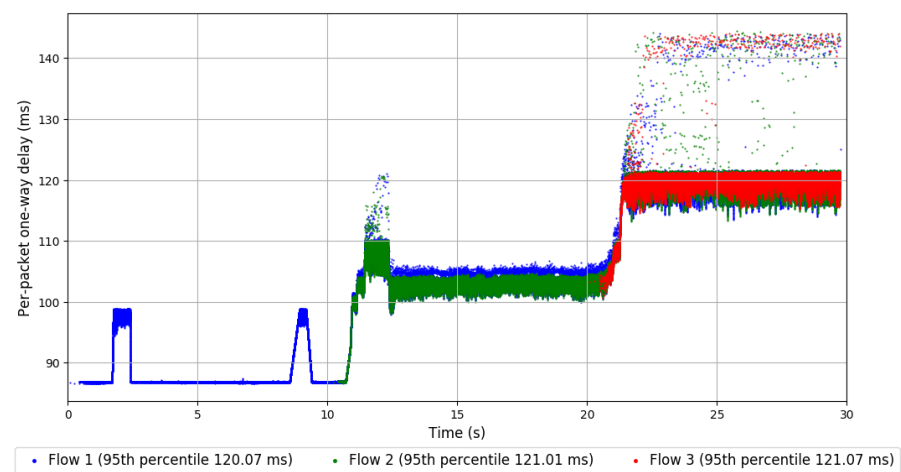
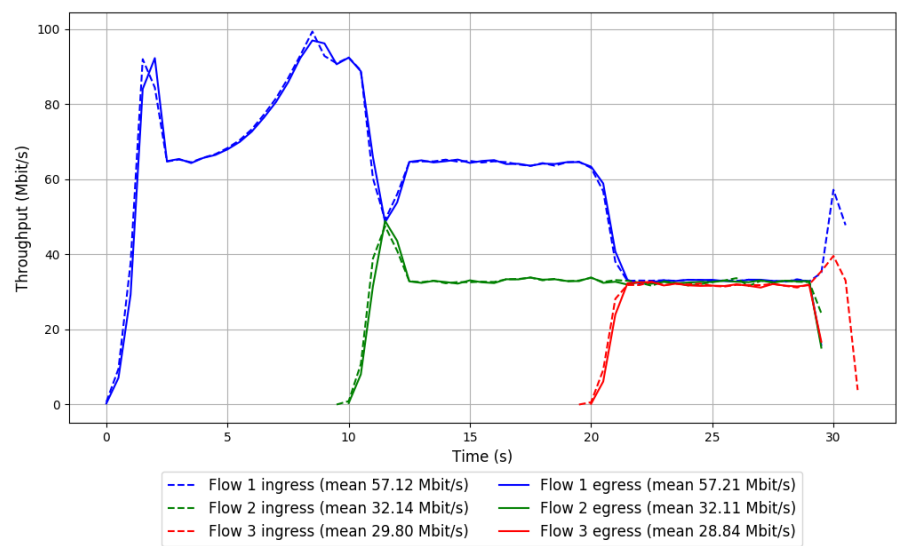


Run 5: Statistics of PCC

Start at: 2018-01-10 01:05:26
End at: 2018-01-10 01:05:56
Local clock offset: 2.003 ms
Remote clock offset: -2.917 ms

Below is generated by plot.py at 2018-01-10 06:18:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 120.749 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 120.069 ms
Loss rate: 3.77%
-- Flow 2:
Average throughput: 32.11 Mbit/s
95th percentile per-packet one-way delay: 121.014 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 121.073 ms
Loss rate: 15.63%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-10 01:25:04

End at: 2018-01-10 01:25:34

Local clock offset: 2.447 ms

Remote clock offset: 1.661 ms

Below is generated by plot.py at 2018-01-10 06:18:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 102.543 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 102.604 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 33.99 Mbit/s

95th percentile per-packet one-way delay: 102.191 ms

Loss rate: 0.90%

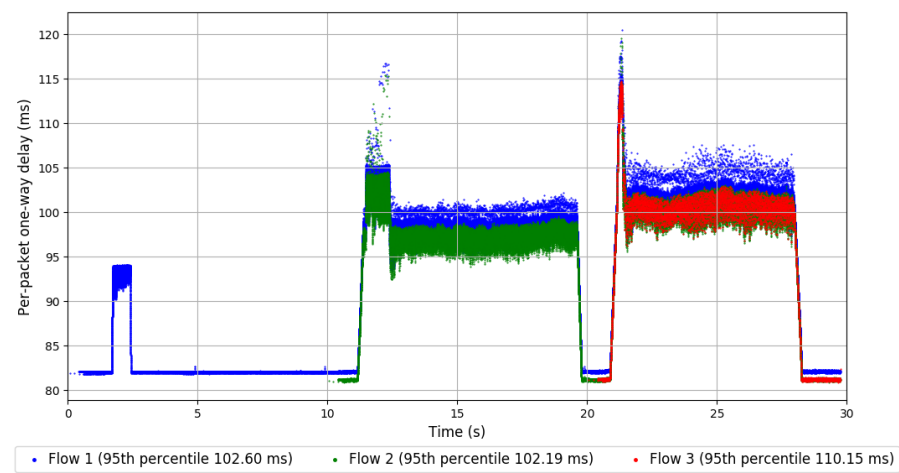
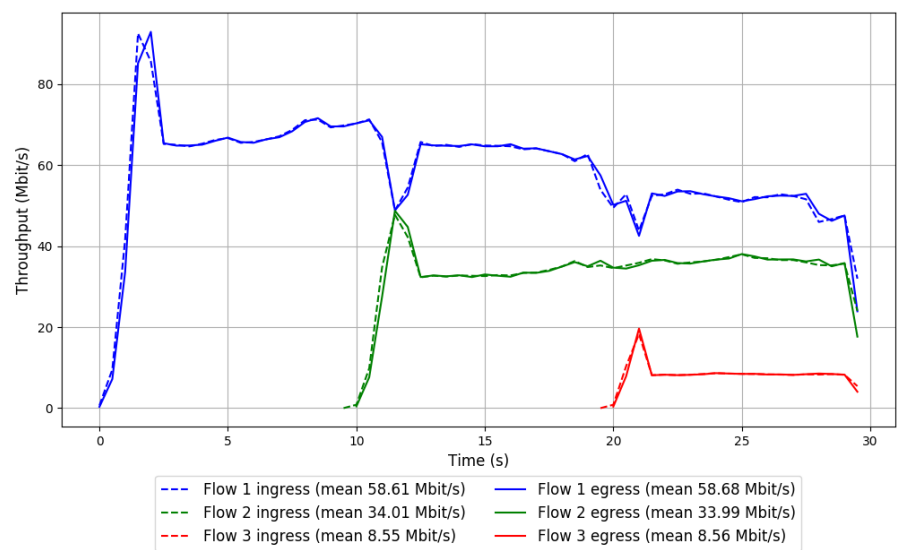
-- Flow 3:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 110.154 ms

Loss rate: 1.60%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-10 01:44:39

End at: 2018-01-10 01:45:09

Local clock offset: 2.355 ms

Remote clock offset: 2.354 ms

Below is generated by plot.py at 2018-01-10 06:18:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.63 Mbit/s

95th percentile per-packet one-way delay: 103.260 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 103.089 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 103.123 ms

Loss rate: 1.16%

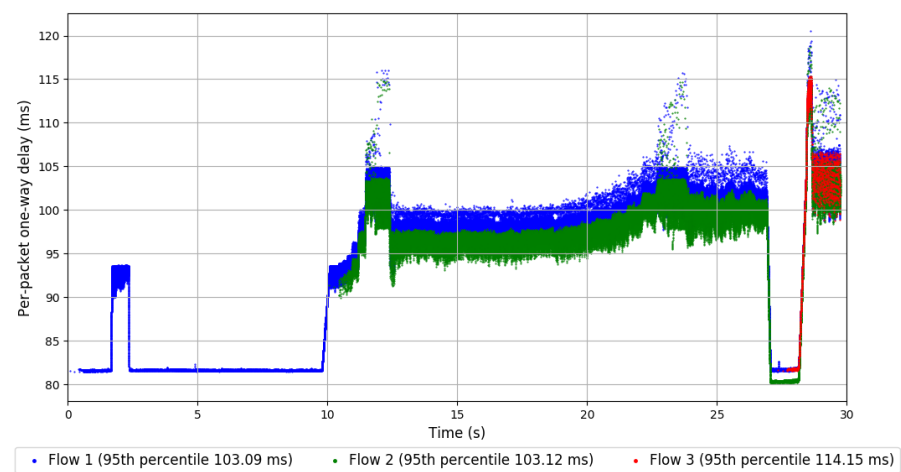
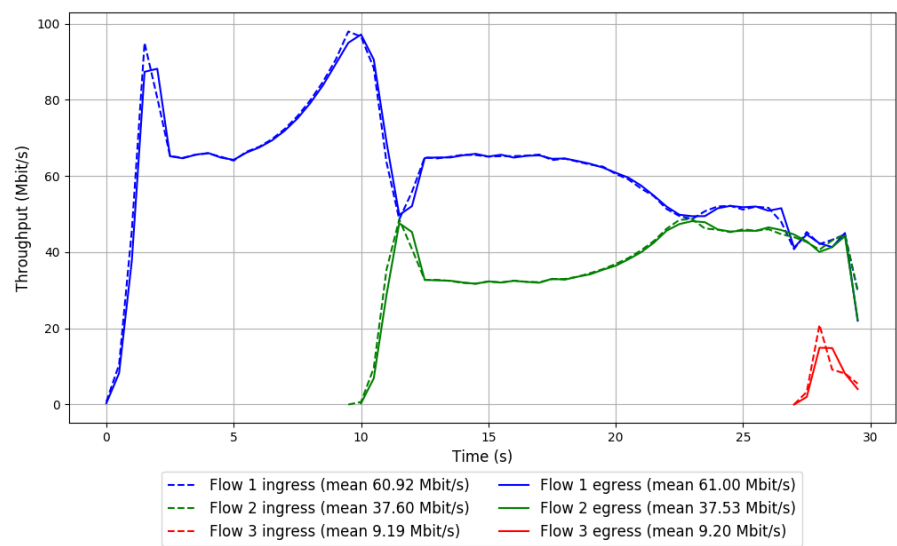
-- Flow 3:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 114.153 ms

Loss rate: 6.62%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-10 02:04:14

End at: 2018-01-10 02:04:44

Local clock offset: 2.098 ms

Remote clock offset: 1.981 ms

Below is generated by plot.py at 2018-01-10 06:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 108.802 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 108.325 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 38.36 Mbit/s

95th percentile per-packet one-way delay: 109.097 ms

Loss rate: 1.07%

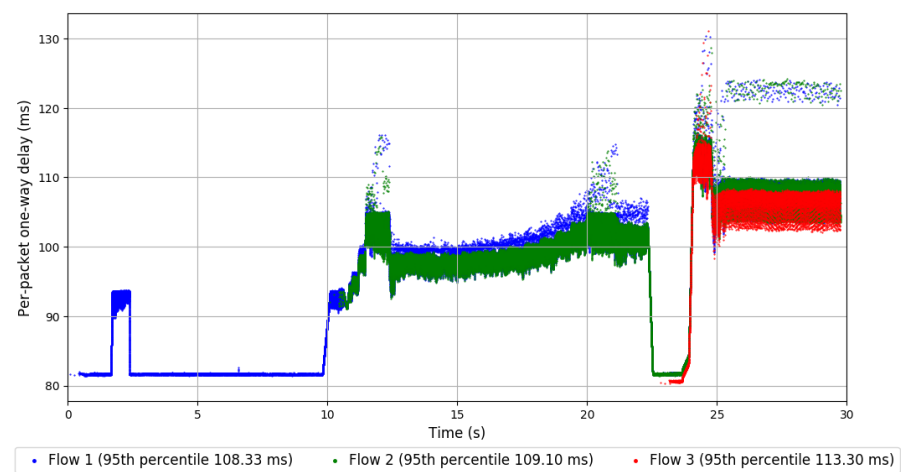
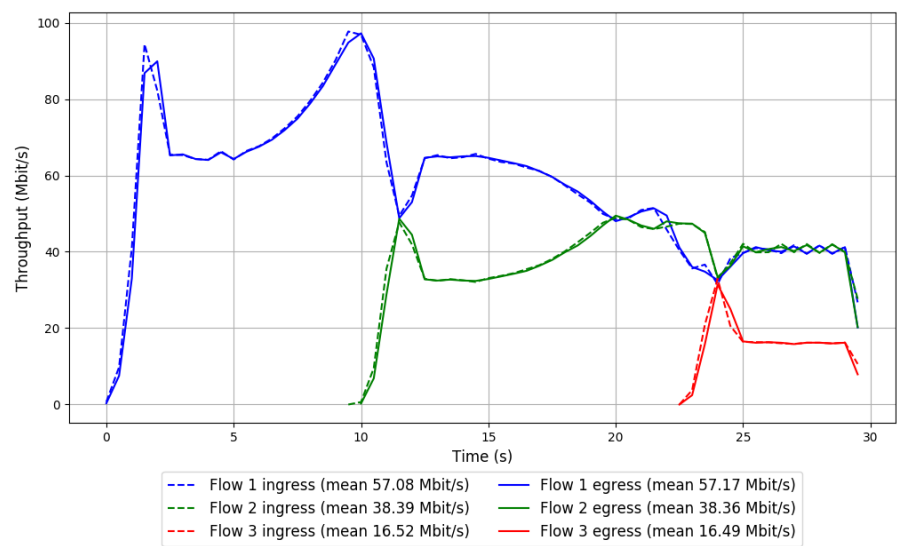
-- Flow 3:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: 113.299 ms

Loss rate: 2.60%

Run 8: Report of PCC — Data Link

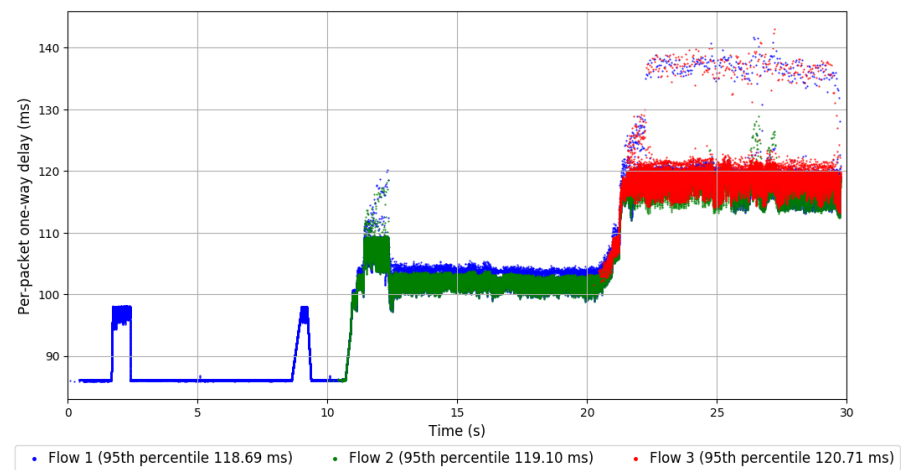
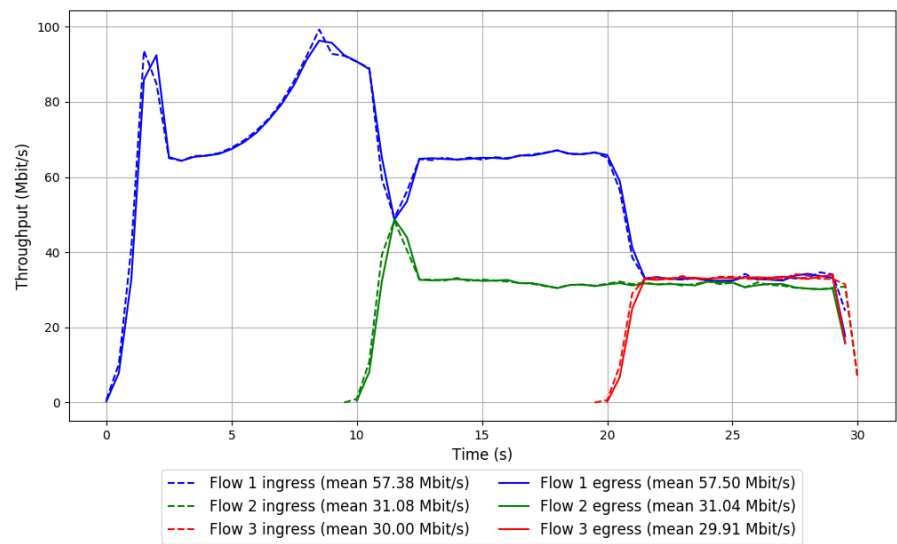


Run 9: Statistics of PCC

Start at: 2018-01-10 02:23:48
End at: 2018-01-10 02:24:18
Local clock offset: 2.116 ms
Remote clock offset: -3.692 ms

Below is generated by plot.py at 2018-01-10 06:20:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 119.396 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 118.693 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 119.098 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 120.713 ms
Loss rate: 4.78%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-10 02:43:25

End at: 2018-01-10 02:43:55

Local clock offset: 2.012 ms

Remote clock offset: 1.069 ms

Below is generated by plot.py at 2018-01-10 06:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 105.137 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 104.605 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 105.408 ms

Loss rate: 1.14%

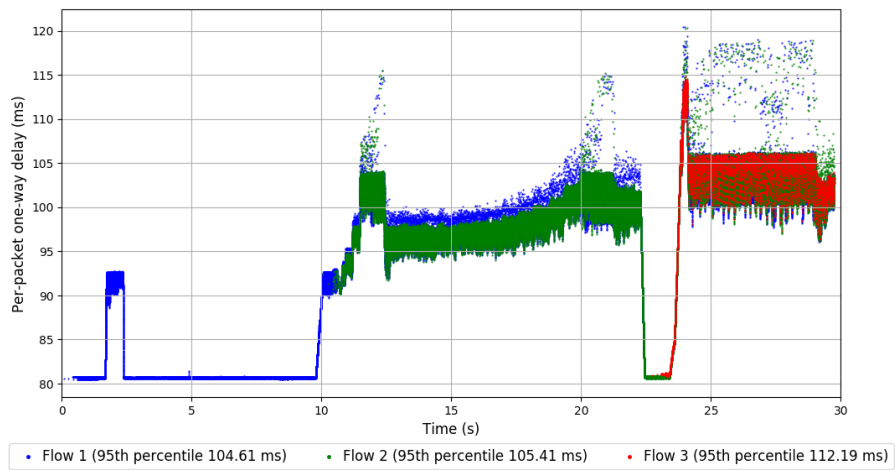
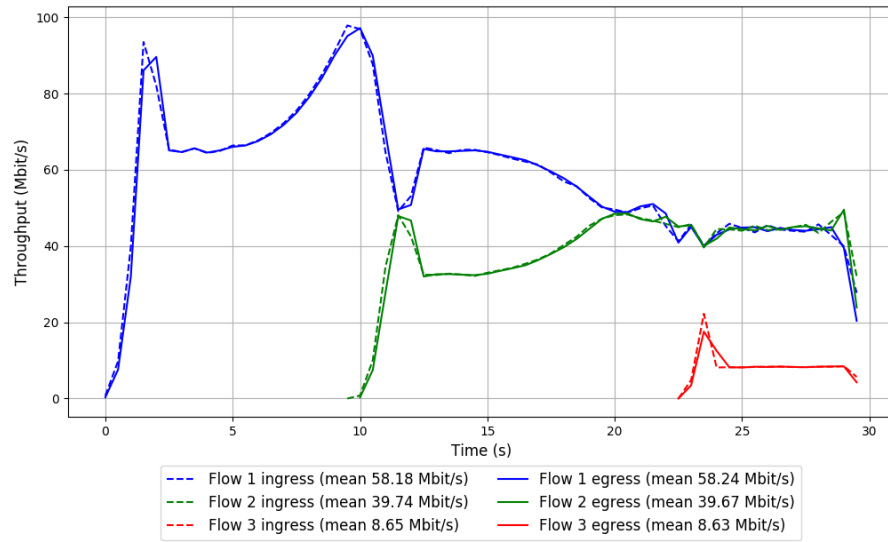
-- Flow 3:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 112.193 ms

Loss rate: 2.55%

Run 10: Report of PCC — Data Link

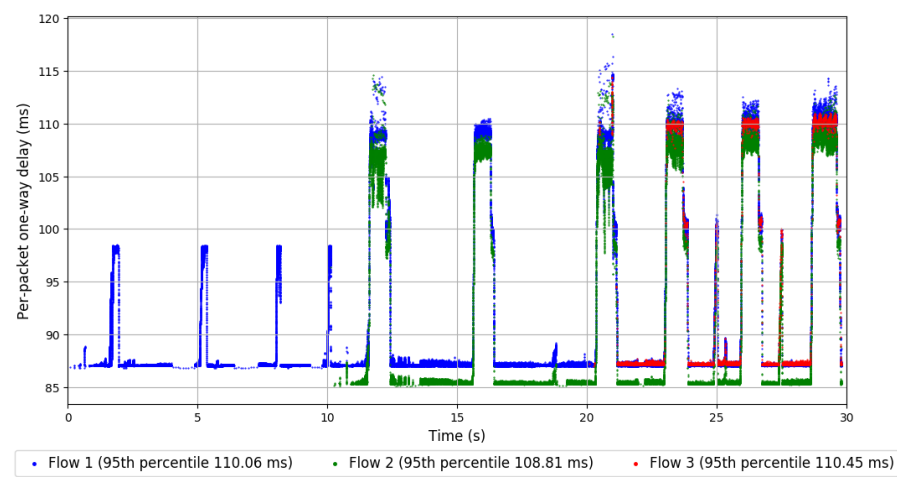
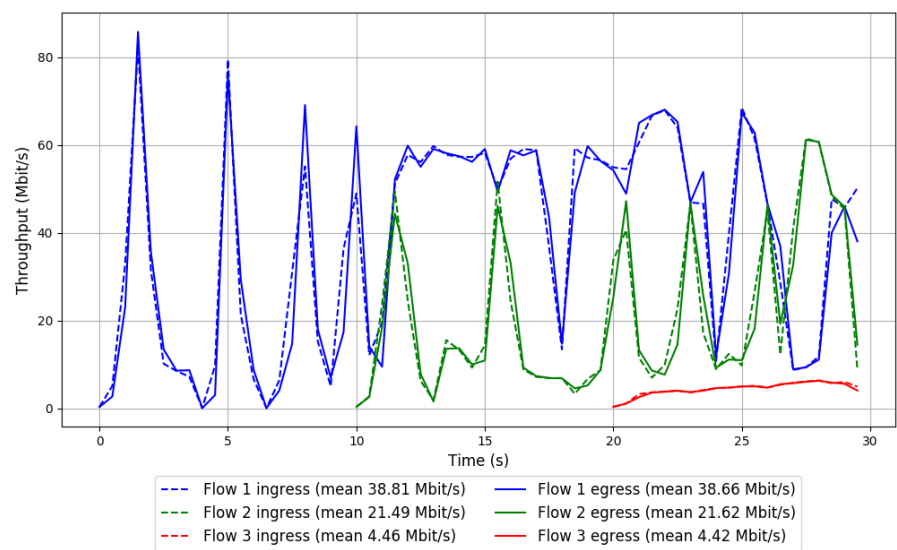


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 23:53:19
End at: 2018-01-09 23:53:49
Local clock offset: 1.452 ms
Remote clock offset: -2.821 ms

Below is generated by plot.py at 2018-01-10 06:20:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 109.937 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 110.062 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 108.808 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 110.454 ms
Loss rate: 2.67%

Run 1: Report of QUIC Cubic — Data Link

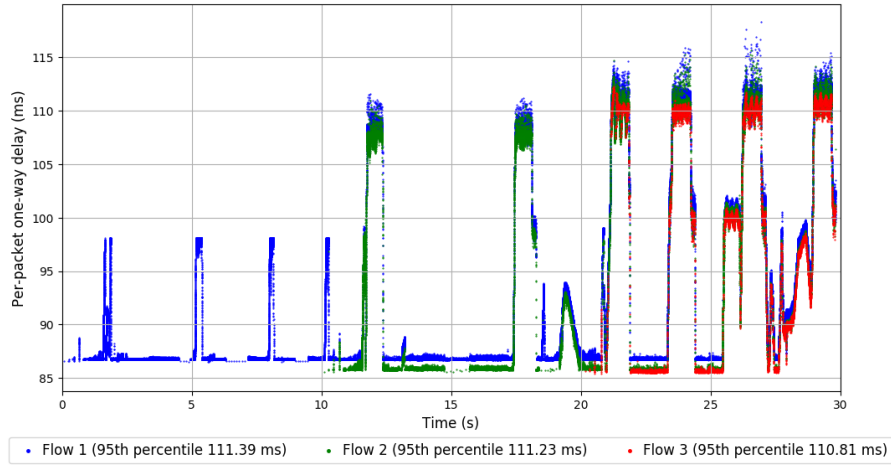
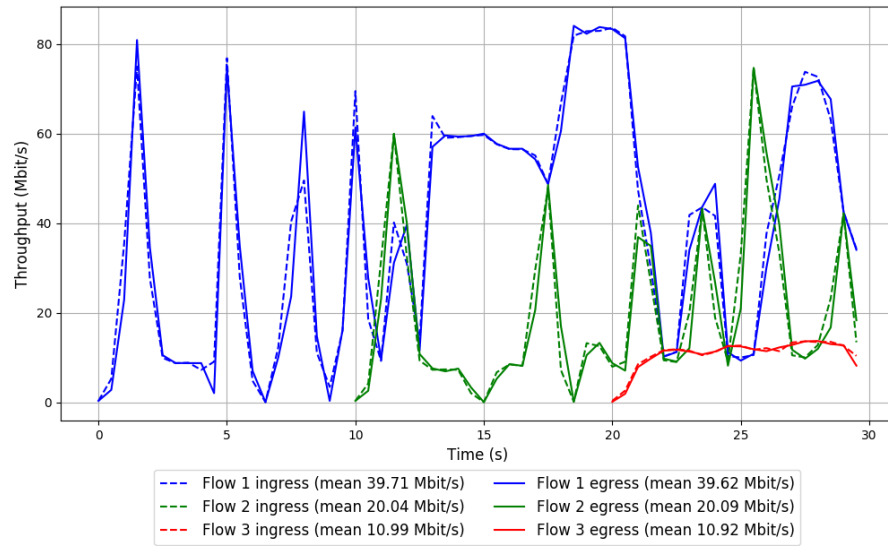


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-10 00:12:58
End at: 2018-01-10 00:13:28
Local clock offset: 1.945 ms
Remote clock offset: -2.659 ms

Below is generated by plot.py at 2018-01-10 06:20:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 111.298 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 111.390 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 111.234 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 110.808 ms
Loss rate: 2.28%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-10 00:32:42

End at: 2018-01-10 00:33:12

Local clock offset: 2.628 ms

Remote clock offset: 2.178 ms

Below is generated by plot.py at 2018-01-10 06:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.94 Mbit/s

95th percentile per-packet one-way delay: 114.906 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 34.70 Mbit/s

95th percentile per-packet one-way delay: 114.797 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 115.171 ms

Loss rate: 0.96%

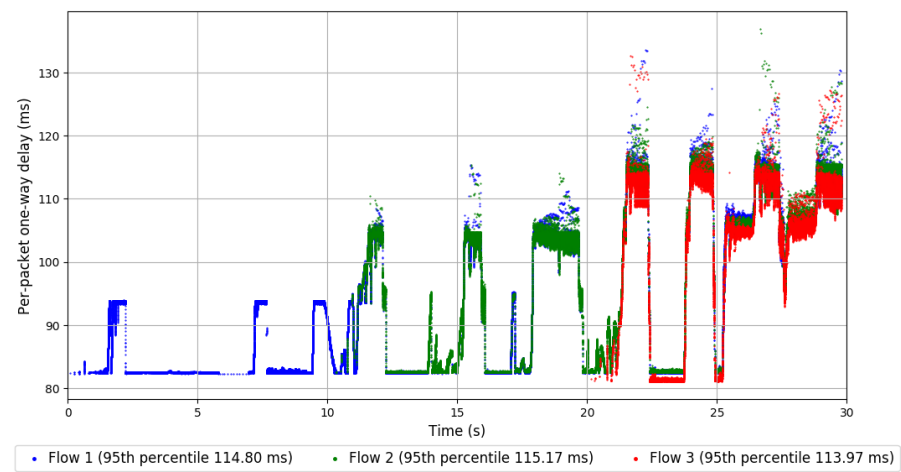
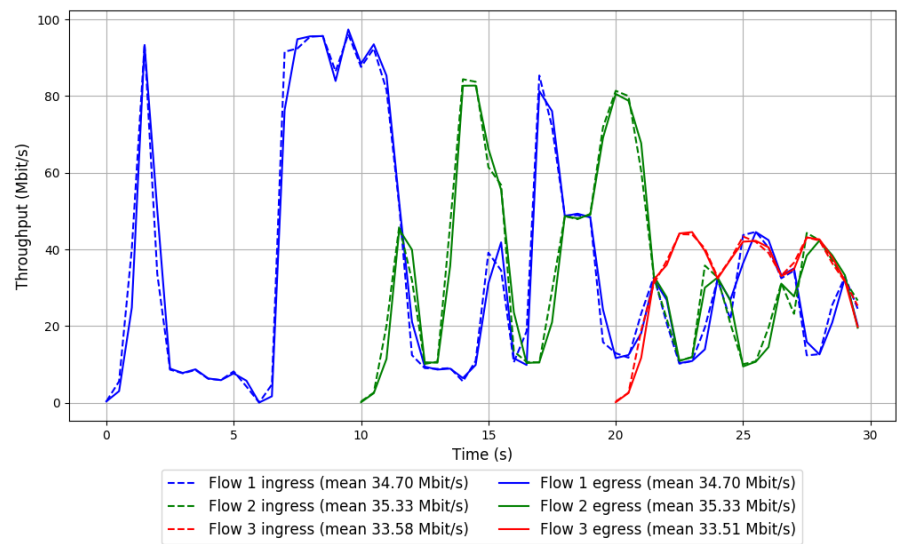
-- Flow 3:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 113.972 ms

Loss rate: 1.91%

Run 3: Report of QUIC Cubic — Data Link

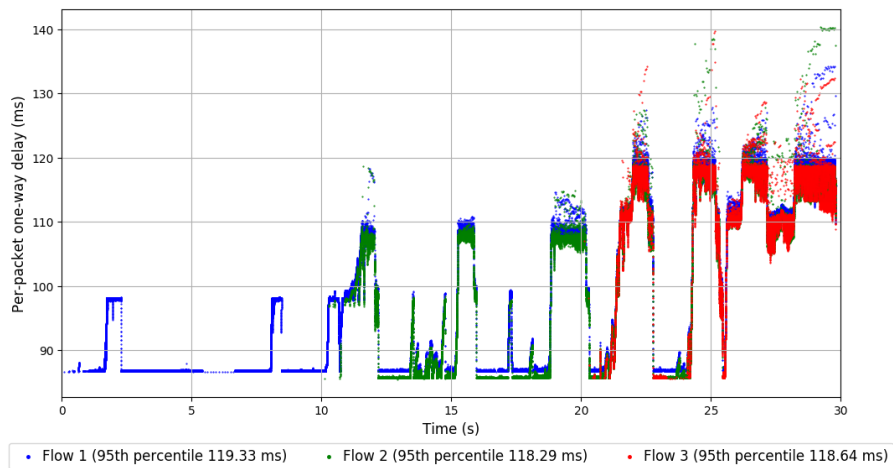
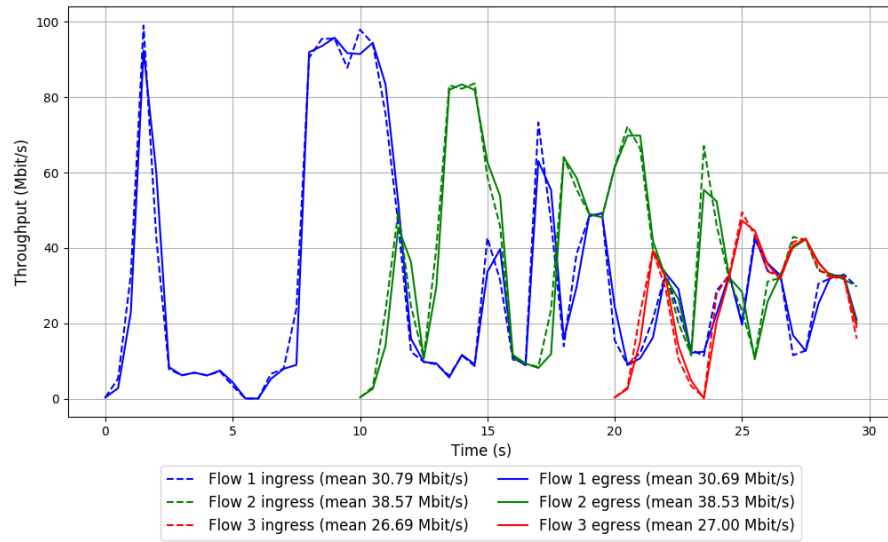


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-10 00:52:22
End at: 2018-01-10 00:52:52
Local clock offset: 2.221 ms
Remote clock offset: -2.921 ms

Below is generated by plot.py at 2018-01-10 06:20:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.00 Mbit/s
95th percentile per-packet one-way delay: 118.644 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 119.335 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 118.289 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 27.00 Mbit/s
95th percentile per-packet one-way delay: 118.636 ms
Loss rate: 0.78%

Run 4: Report of QUIC Cubic — Data Link

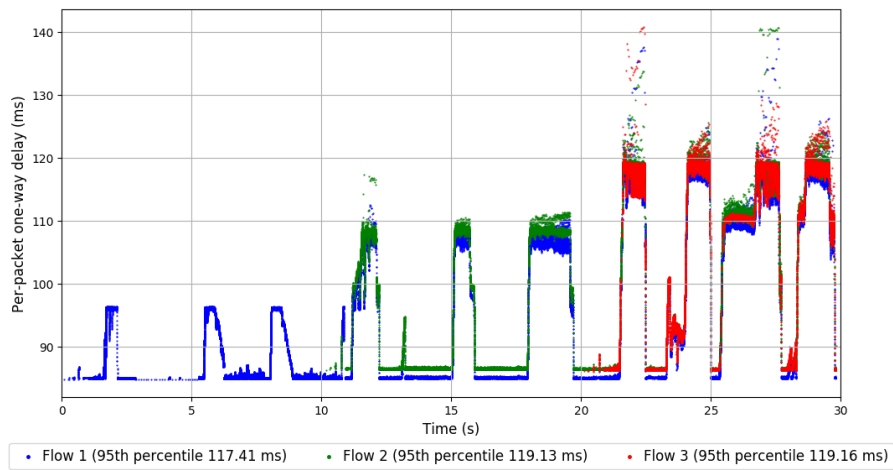
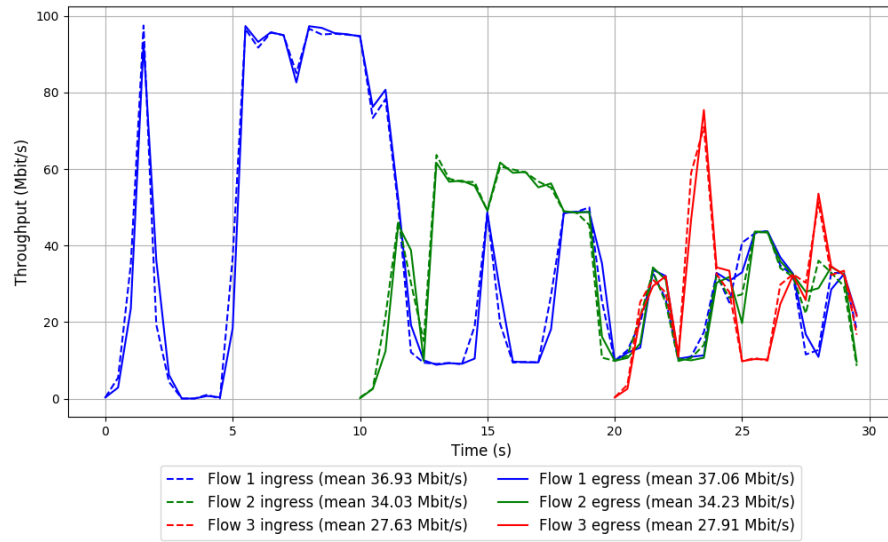


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-10 01:12:00
End at: 2018-01-10 01:12:30
Local clock offset: 2.109 ms
Remote clock offset: -2.534 ms

Below is generated by plot.py at 2018-01-10 06:20:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.79 Mbit/s
95th percentile per-packet one-way delay: 118.797 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 117.406 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 34.23 Mbit/s
95th percentile per-packet one-way delay: 119.126 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 27.91 Mbit/s
95th percentile per-packet one-way delay: 119.159 ms
Loss rate: 0.66%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-10 01:31:36

End at: 2018-01-10 01:32:06

Local clock offset: 2.569 ms

Remote clock offset: 2.06 ms

Below is generated by plot.py at 2018-01-10 06:21:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.44 Mbit/s

95th percentile per-packet one-way delay: 113.996 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 40.48 Mbit/s

95th percentile per-packet one-way delay: 113.367 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 35.09 Mbit/s

95th percentile per-packet one-way delay: 113.464 ms

Loss rate: 1.03%

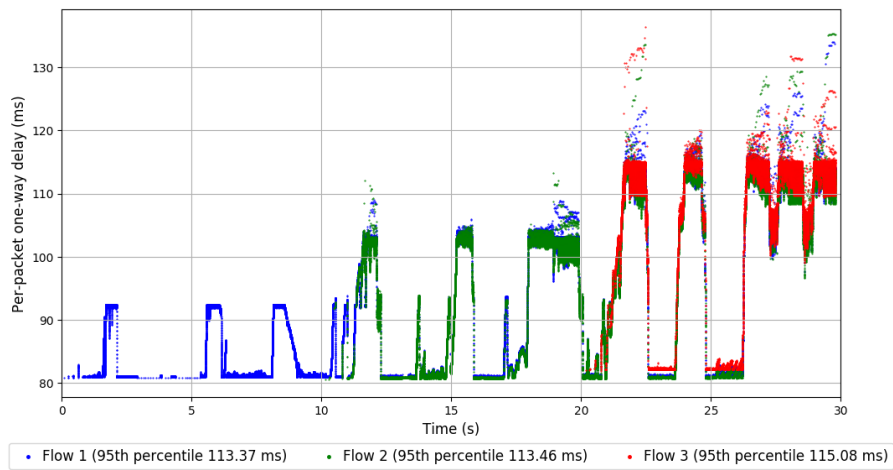
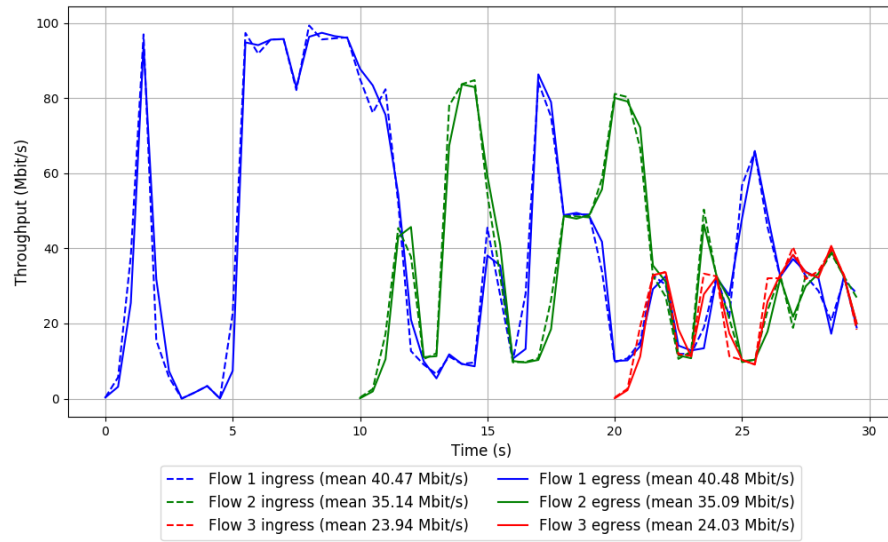
-- Flow 3:

Average throughput: 24.03 Mbit/s

95th percentile per-packet one-way delay: 115.076 ms

Loss rate: 1.35%

Run 6: Report of QUIC Cubic — Data Link

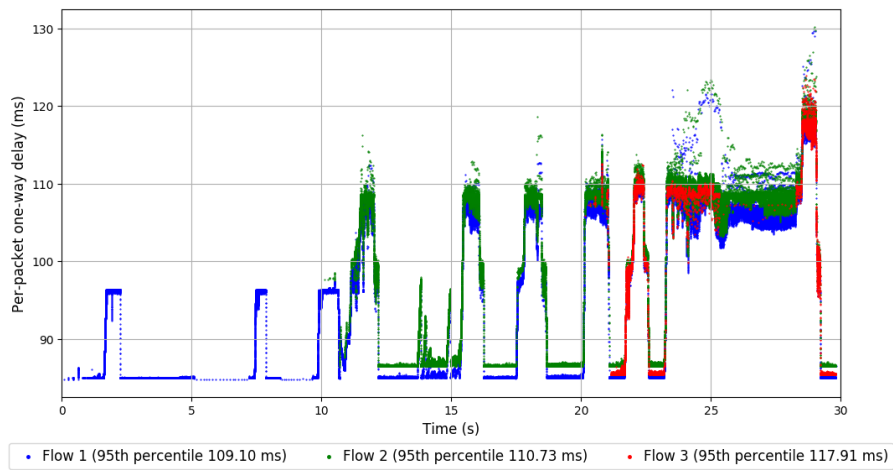
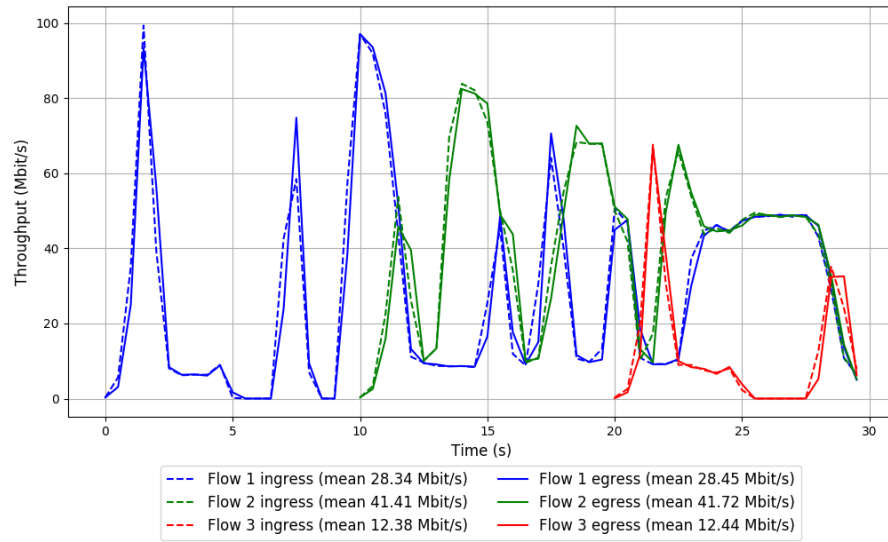


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-10 01:51:11
End at: 2018-01-10 01:51:41
Local clock offset: 2.306 ms
Remote clock offset: -2.639 ms

Below is generated by plot.py at 2018-01-10 06:21:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.14 Mbit/s
95th percentile per-packet one-way delay: 110.628 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 109.100 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 41.72 Mbit/s
95th percentile per-packet one-way delay: 110.733 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 117.914 ms
Loss rate: 1.45%

Run 7: Report of QUIC Cubic — Data Link

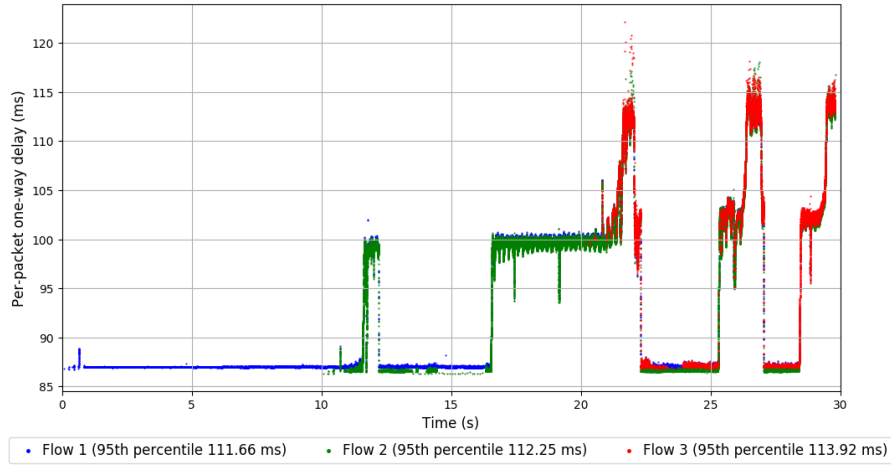
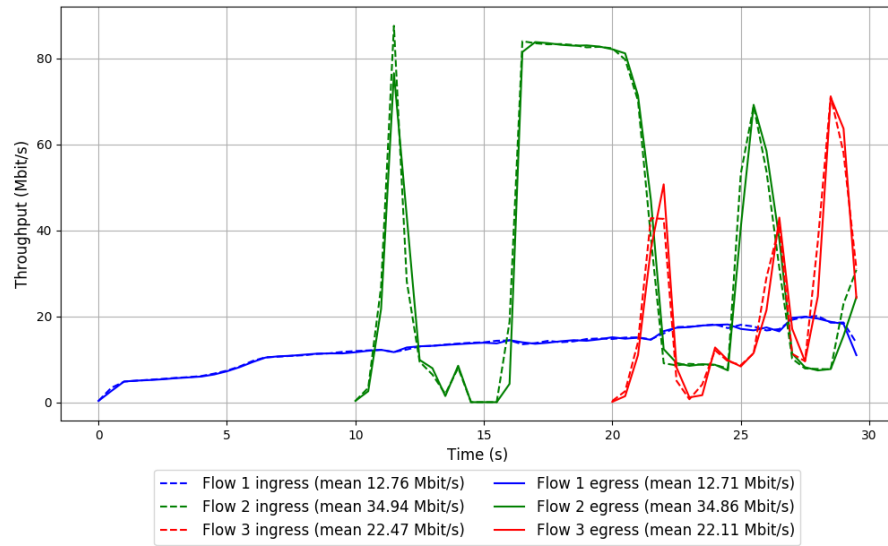


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-10 02:10:46
End at: 2018-01-10 02:11:16
Local clock offset: 2.14 ms
Remote clock offset: -3.386 ms

Below is generated by plot.py at 2018-01-10 06:21:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.01 Mbit/s
95th percentile per-packet one-way delay: 112.979 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 111.663 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 112.246 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 113.917 ms
Loss rate: 3.54%

Run 8: Report of QUIC Cubic — Data Link

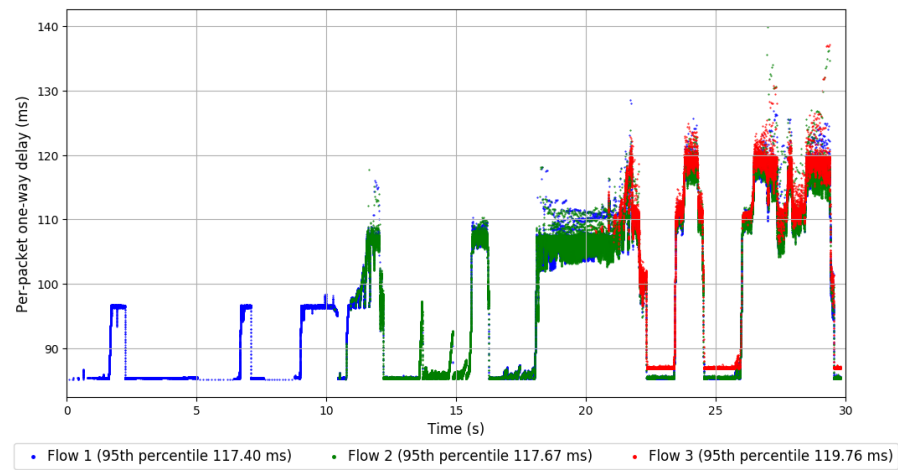
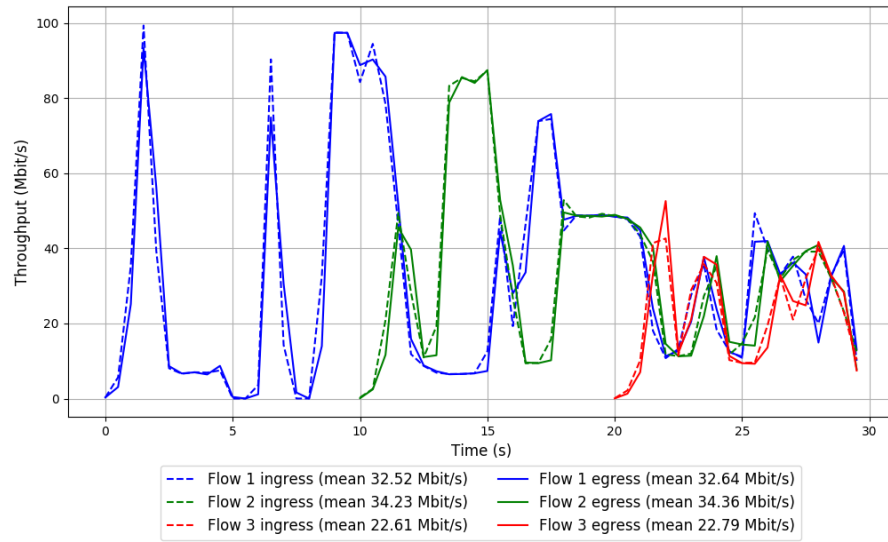


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-10 02:30:22
End at: 2018-01-10 02:30:52
Local clock offset: 2.138 ms
Remote clock offset: -3.559 ms

Below is generated by plot.py at 2018-01-10 06:22:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 118.172 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 117.401 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 117.669 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 22.79 Mbit/s
95th percentile per-packet one-way delay: 119.757 ms
Loss rate: 1.17%

Run 9: Report of QUIC Cubic — Data Link

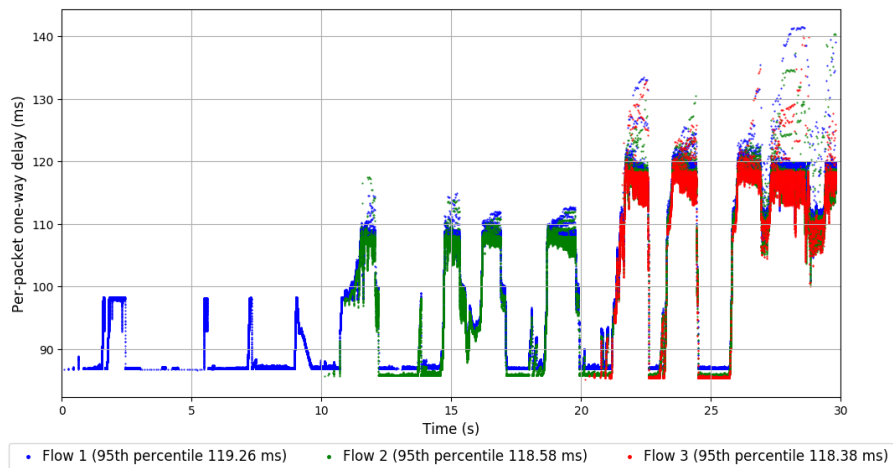
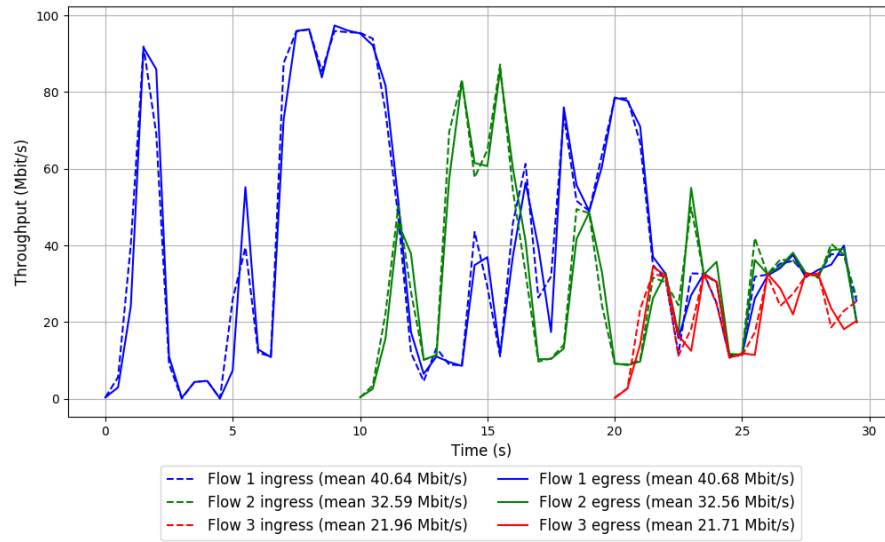


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-10 02:49:58
End at: 2018-01-10 02:50:28
Local clock offset: 1.796 ms
Remote clock offset: -3.909 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.32 Mbit/s
95th percentile per-packet one-way delay: 118.805 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 119.261 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 32.56 Mbit/s
95th percentile per-packet one-way delay: 118.585 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 21.71 Mbit/s
95th percentile per-packet one-way delay: 118.382 ms
Loss rate: 2.93%

Run 10: Report of QUIC Cubic — Data Link

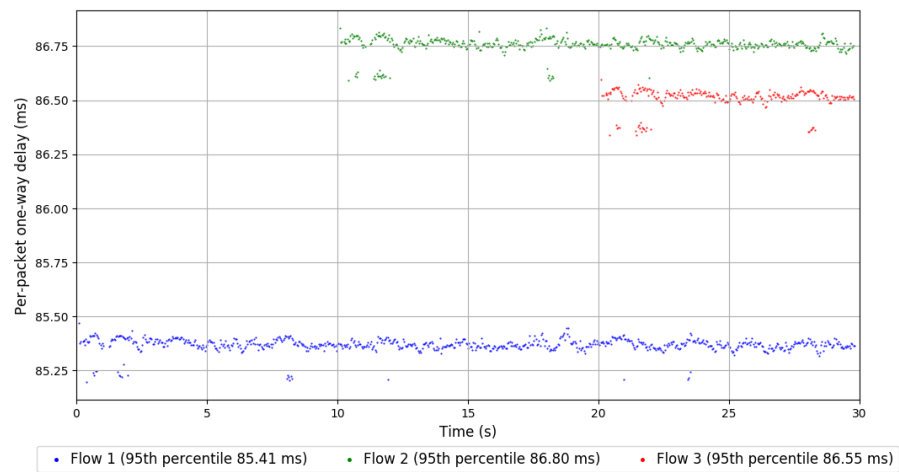
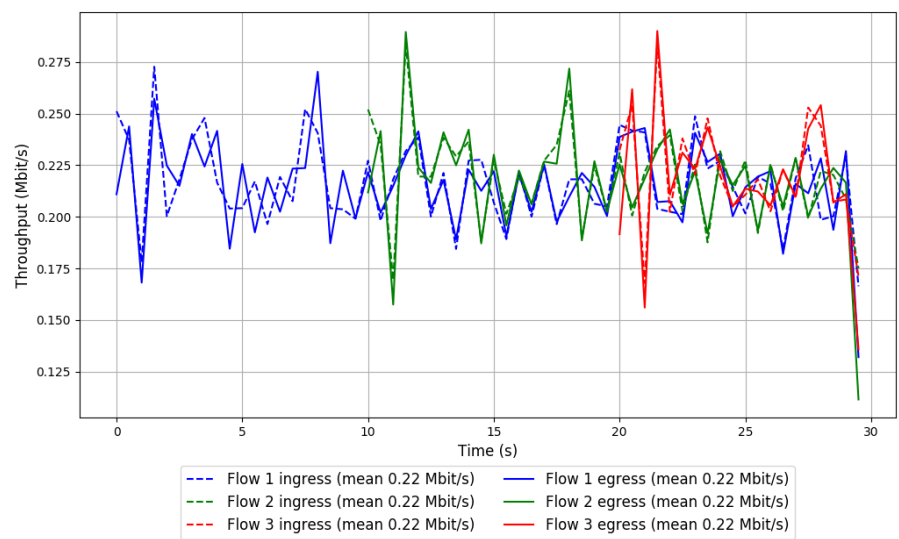


```
Run 1: Statistics of SReAM

Start at: 2018-01-09 23:42:43
End at: 2018-01-09 23:43:13
Local clock offset: 1.198 ms
Remote clock offset: -2.609 ms

# Below is generated by plot.py at 2018-01-10 06:23:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.782 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.405 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.796 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.551 ms
Loss rate: 1.53%
```

Run 1: Report of SReAM — Data Link

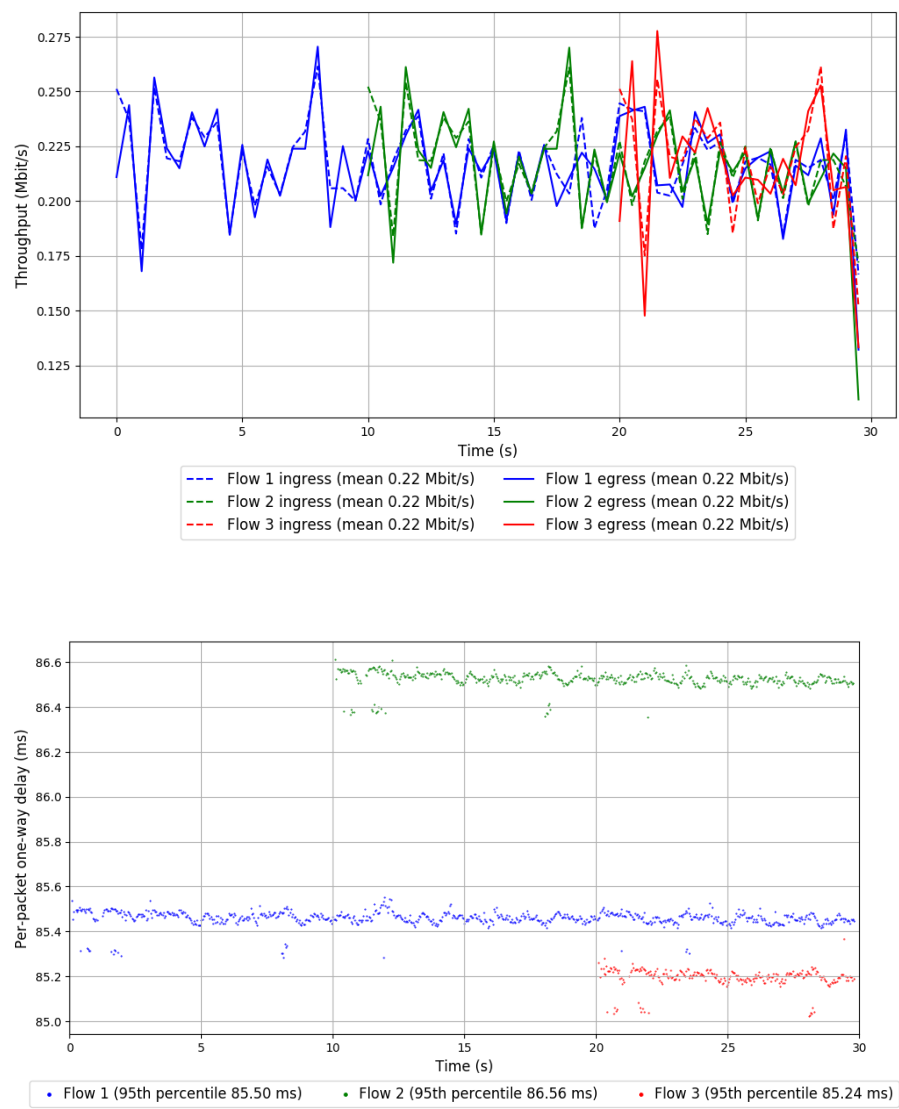


Run 2: Statistics of SReAM

Start at: 2018-01-10 00:02:28
End at: 2018-01-10 00:02:58
Local clock offset: 1.665 ms
Remote clock offset: -2.423 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.550 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.499 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.565 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.237 ms
Loss rate: 1.52%

Run 2: Report of SReAM — Data Link

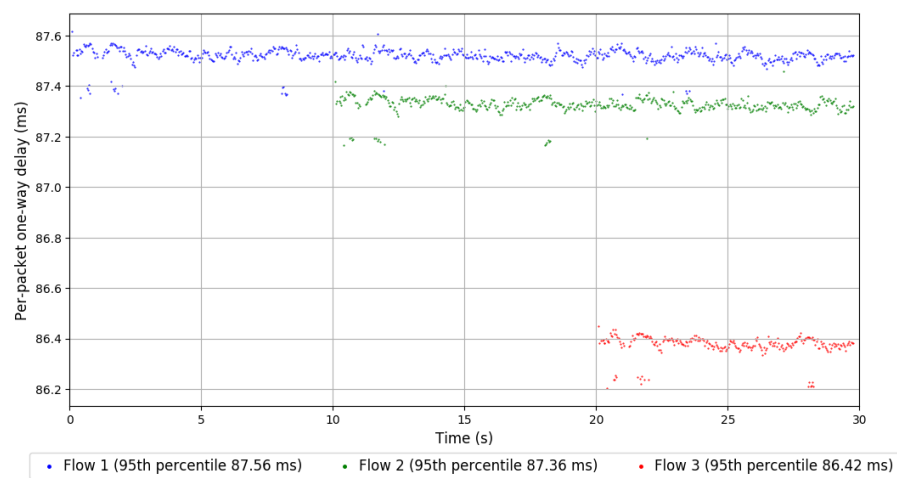
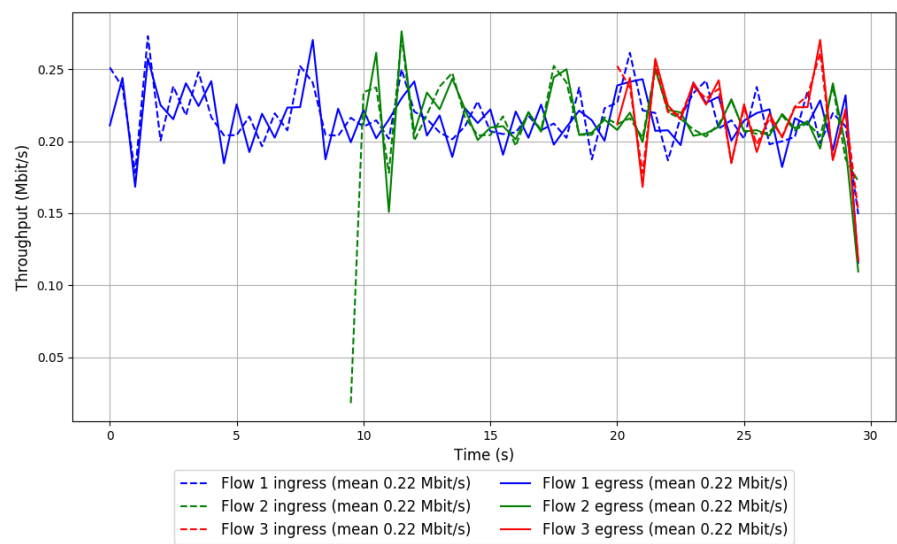


Run 3: Statistics of SReAM

Start at: 2018-01-10 00:22:13
End at: 2018-01-10 00:22:43
Local clock offset: 2.389 ms
Remote clock offset: -2.95 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.548 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.555 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.364 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.415 ms
Loss rate: 1.53%

Run 3: Report of SCReAM — Data Link

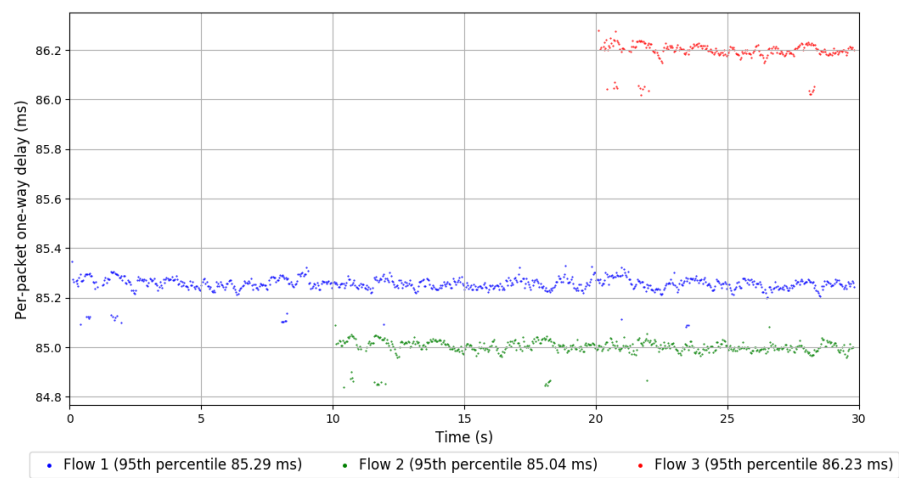
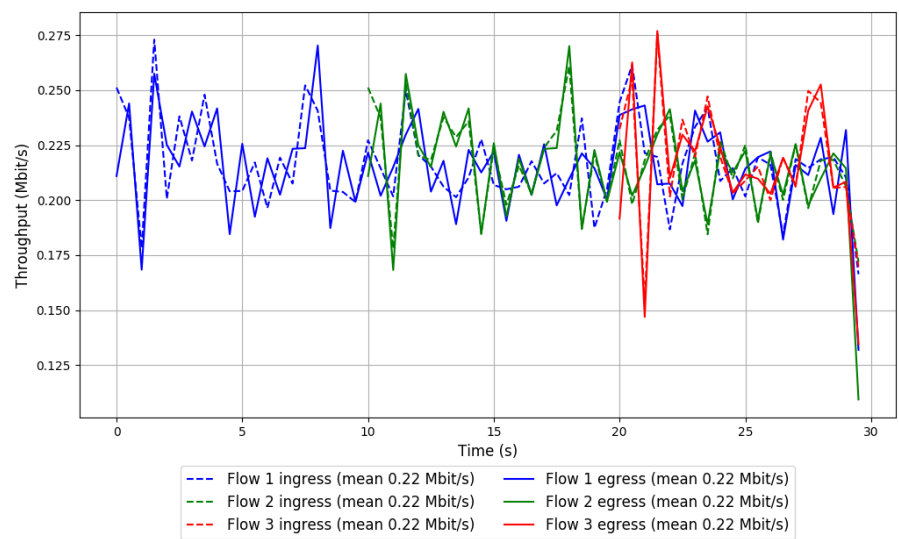


Run 4: Statistics of SReAM

Start at: 2018-01-10 00:41:53
End at: 2018-01-10 00:42:23
Local clock offset: 2.359 ms
Remote clock offset: -2.364 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.210 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.293 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.036 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.234 ms
Loss rate: 1.54%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

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

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

Local clock offset: 2.125 ms

Remote clock offset: 1.94 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 82.048 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.631 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.063 ms

Loss rate: 1.05%

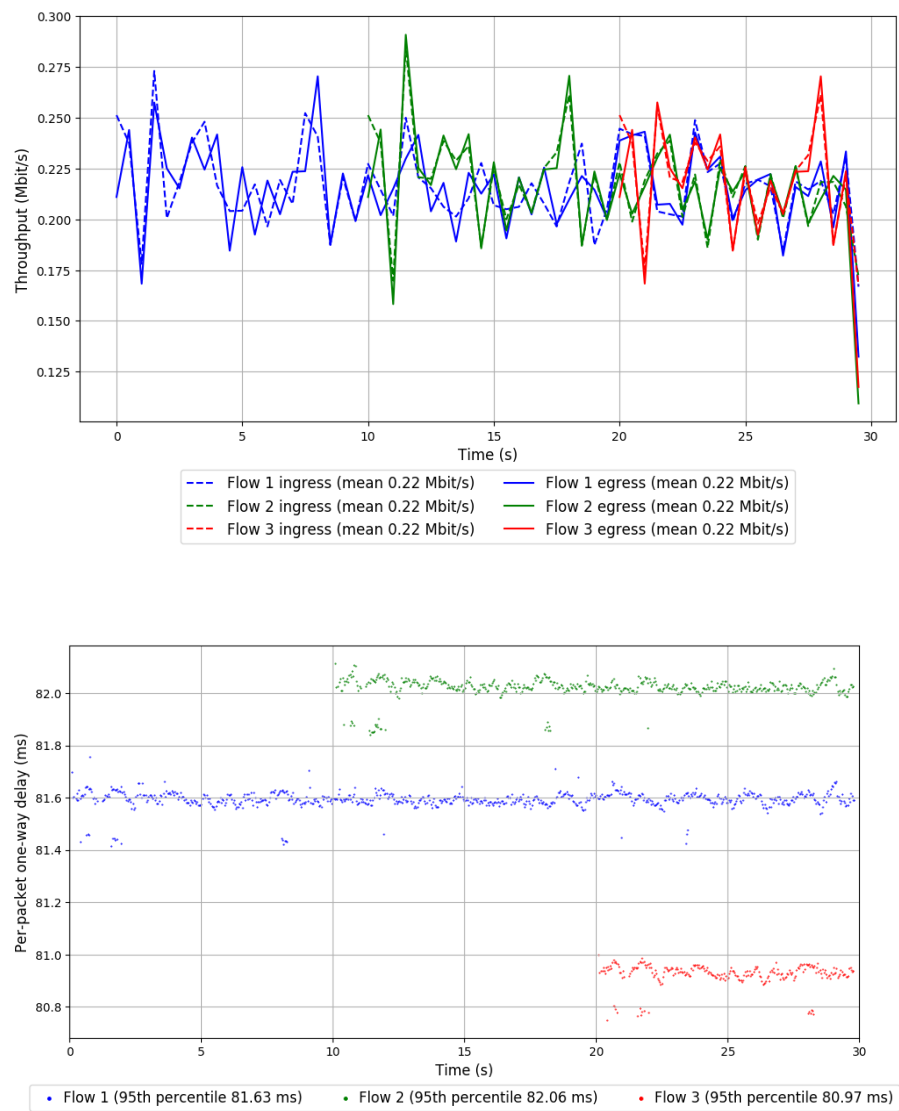
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.966 ms

Loss rate: 1.87%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-10 01:21:09

End at: 2018-01-10 01:21:39

Local clock offset: 2.304 ms

Remote clock offset: 2.088 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 81.953 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.435 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.965 ms

Loss rate: 1.06%

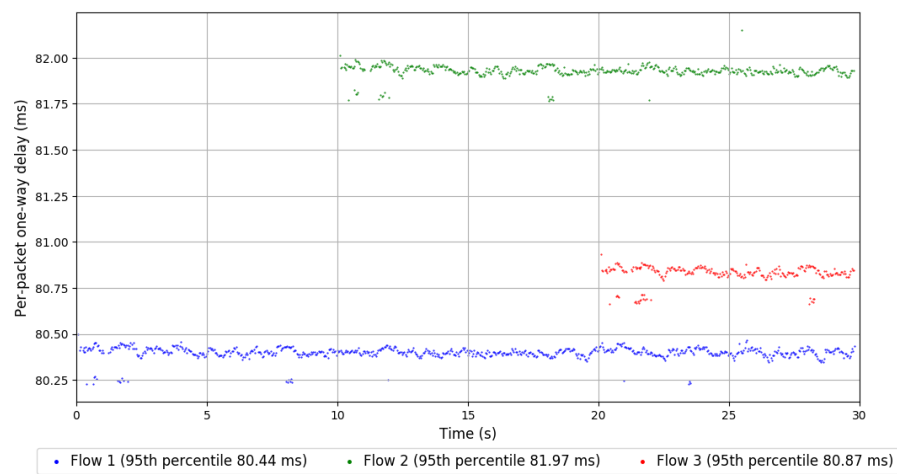
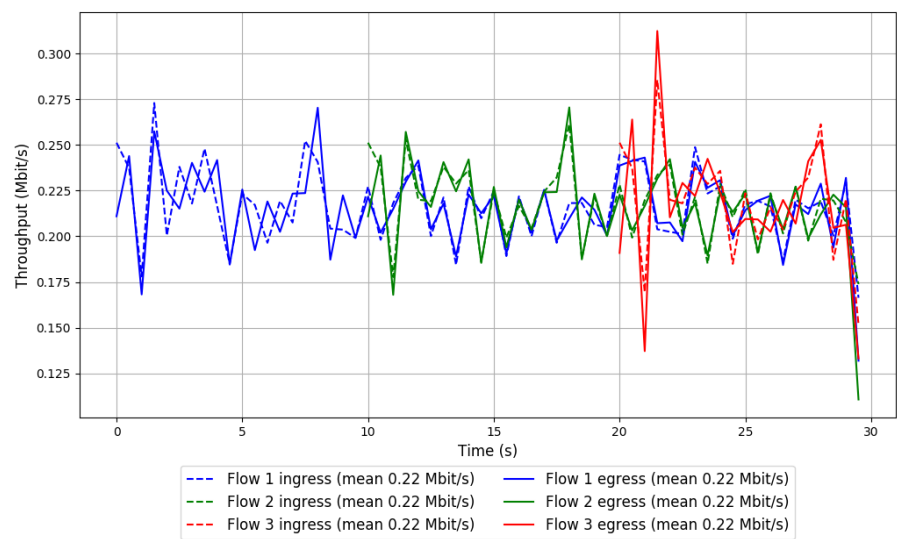
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.872 ms

Loss rate: 1.52%

Run 6: Report of SReAM — Data Link

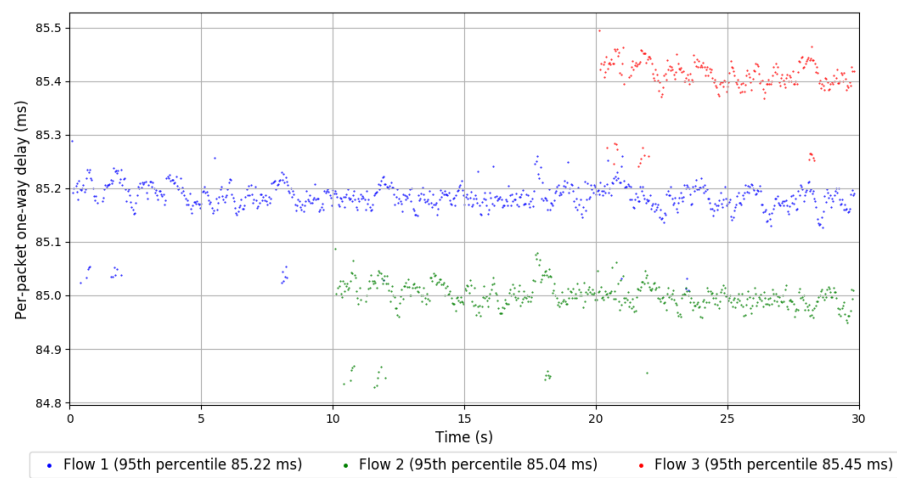
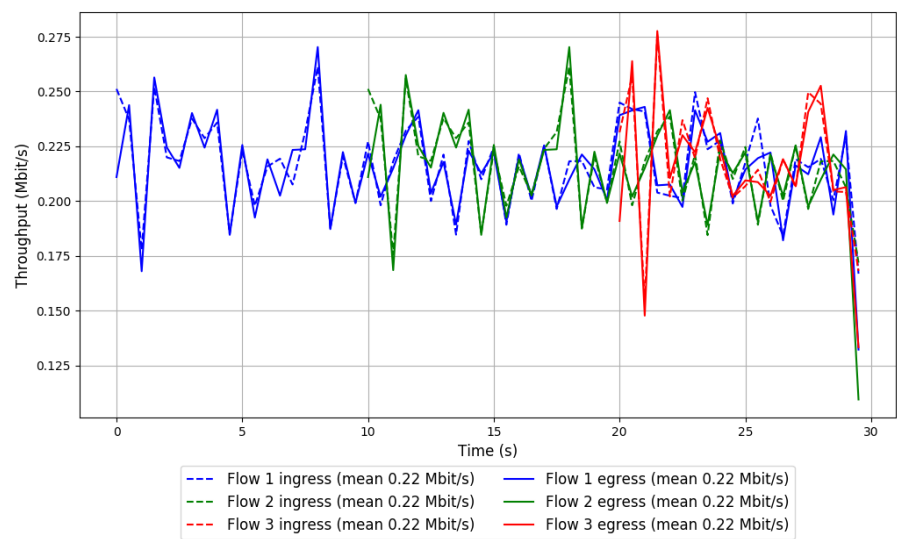


Run 7: Statistics of SReAM

Start at: 2018-01-10 01:40:44
End at: 2018-01-10 01:41:14
Local clock offset: 2.477 ms
Remote clock offset: -2.41 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.426 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.218 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.037 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.449 ms
Loss rate: 1.53%

Run 7: Report of SReAM — Data Link

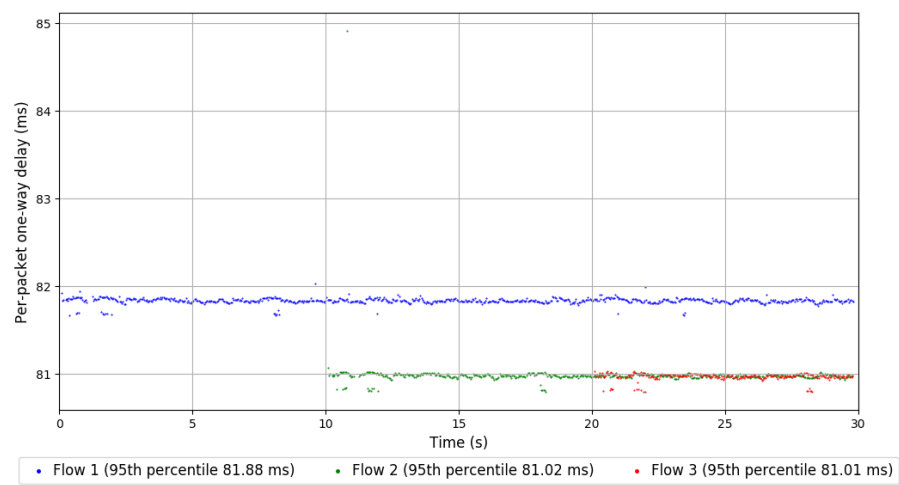
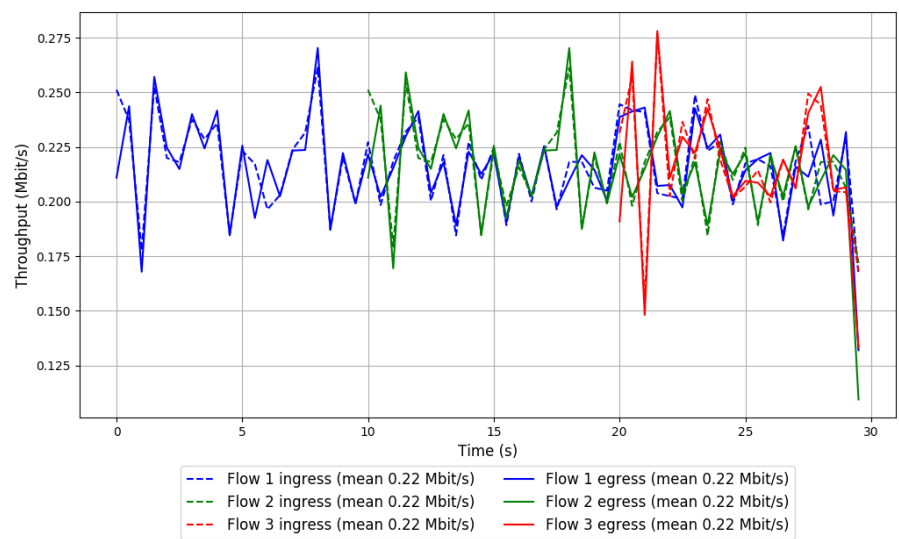


Run 8: Statistics of SReAM

Start at: 2018-01-10 02:00:19
End at: 2018-01-10 02:00:49
Local clock offset: 2.154 ms
Remote clock offset: 1.634 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.867 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.876 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.015 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.012 ms
Loss rate: 1.53%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-10 02:19:54

End at: 2018-01-10 02:20:24

Local clock offset: 2.186 ms

Remote clock offset: 1.225 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 81.333 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.342 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.905 ms

Loss rate: 1.05%

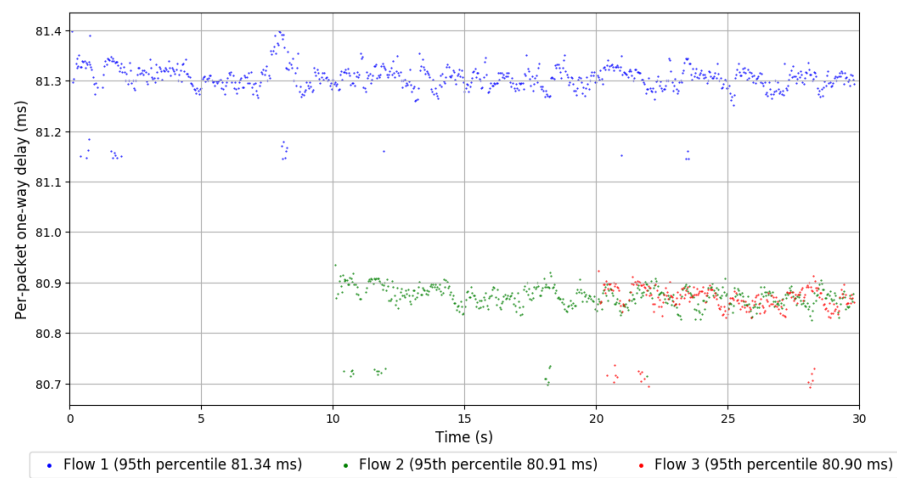
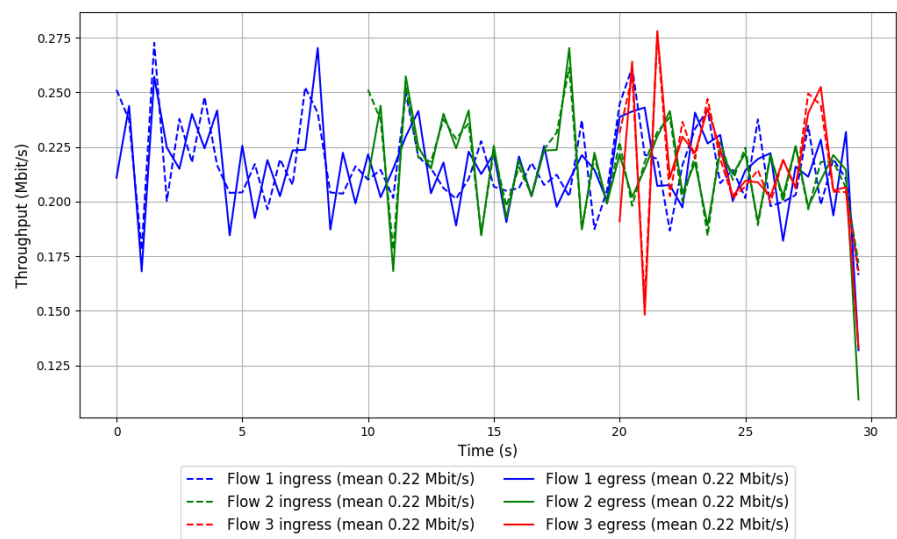
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.898 ms

Loss rate: 1.53%

Run 9: Report of SReAM — Data Link

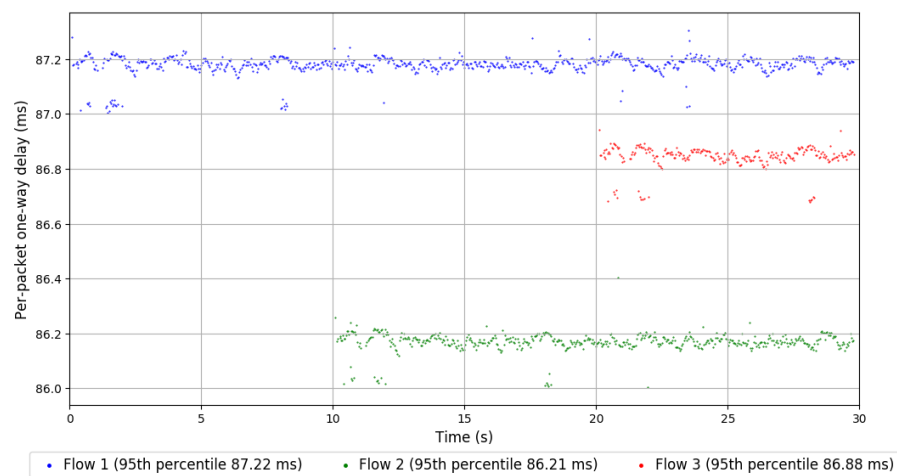
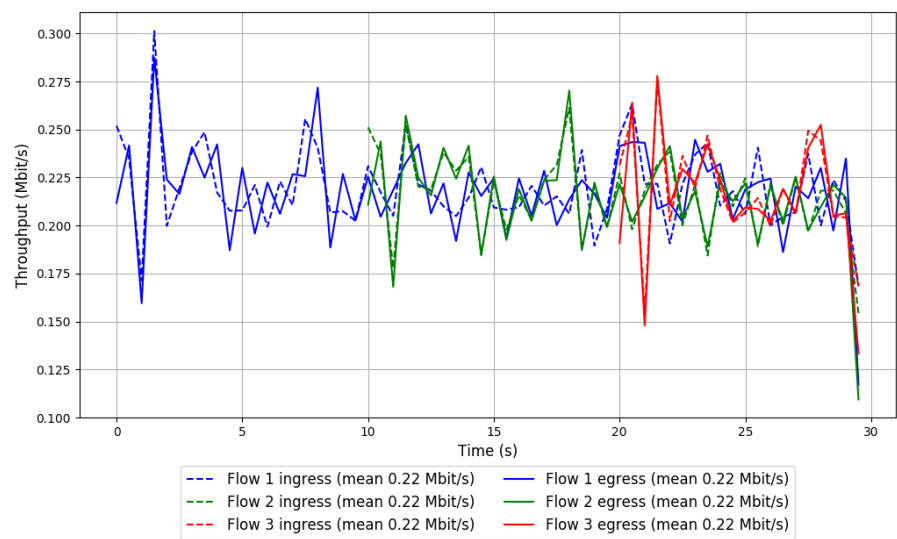


Run 10: Statistics of SCReAM

Start at: 2018-01-10 02:39:30
End at: 2018-01-10 02:40:00
Local clock offset: 2.23 ms
Remote clock offset: -4.061 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.208 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.215 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.206 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.884 ms
Loss rate: 1.53%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-01-09 23:38:39

End at: 2018-01-09 23:39:09

Local clock offset: 1.048 ms

Remote clock offset: 1.835 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 82.654 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 81.396 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 82.884 ms

Loss rate: 0.55%

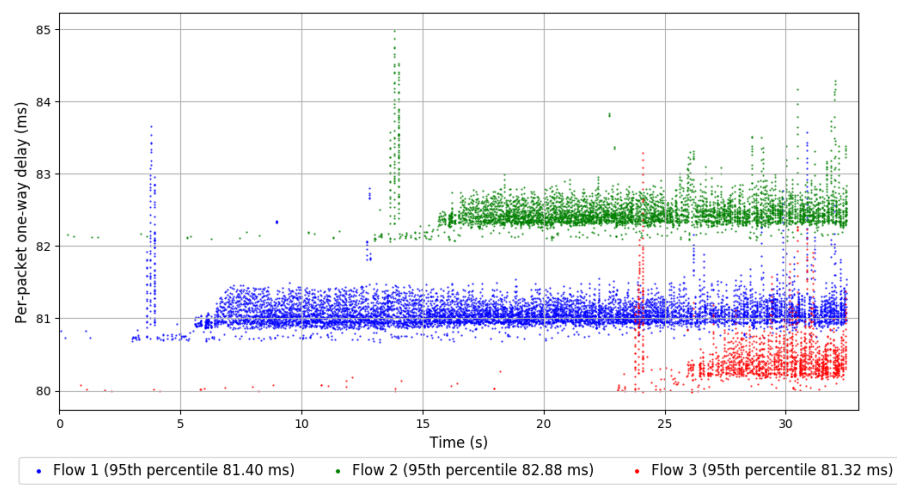
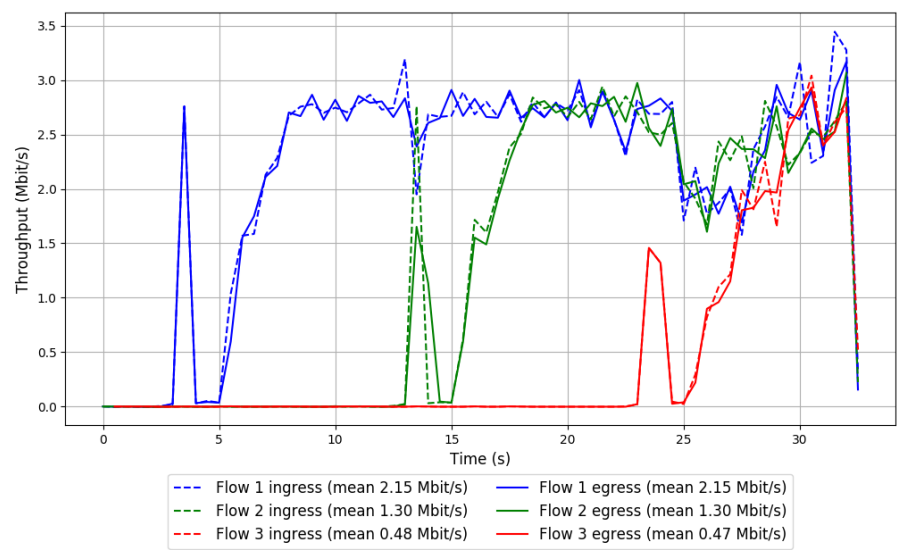
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 81.320 ms

Loss rate: 3.29%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-09 23:58:33

End at: 2018-01-09 23:59:03

Local clock offset: 1.518 ms

Remote clock offset: 1.989 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 82.274 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 81.514 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 82.486 ms

Loss rate: 0.22%

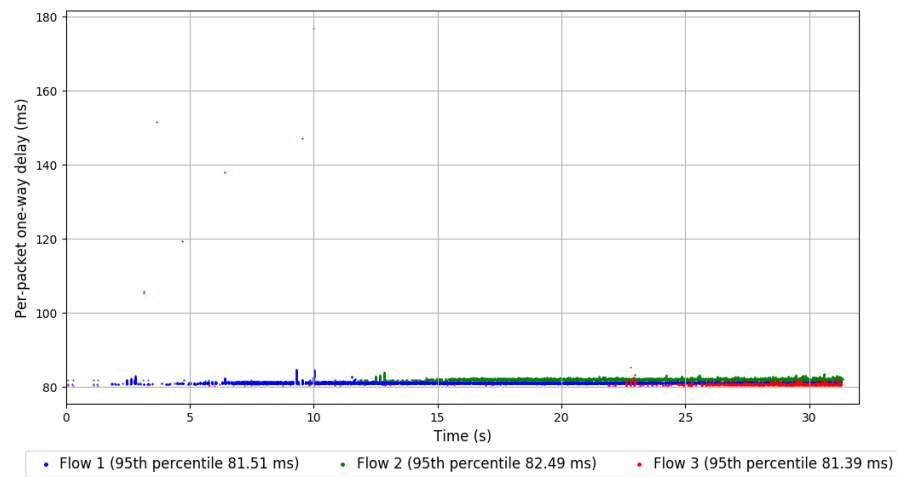
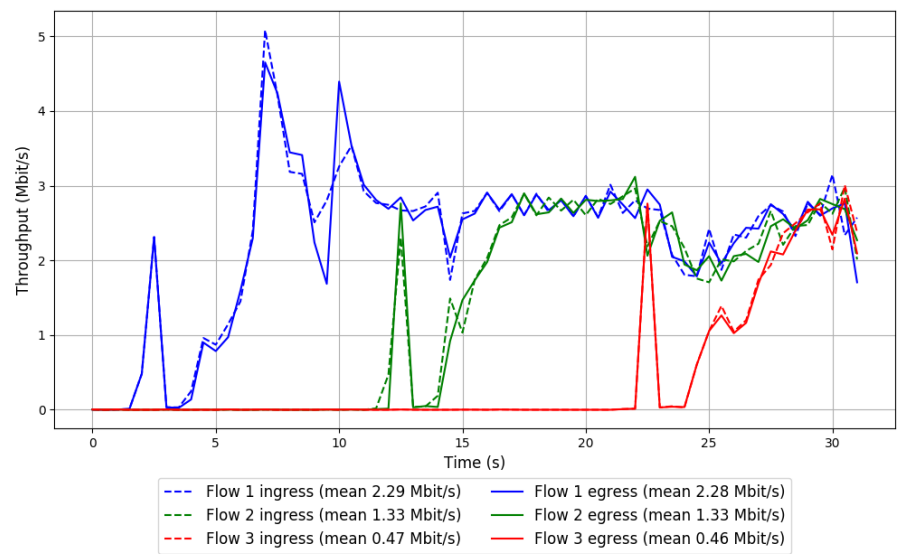
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 81.394 ms

Loss rate: 2.52%

Run 2: Report of WebRTC media — Data Link

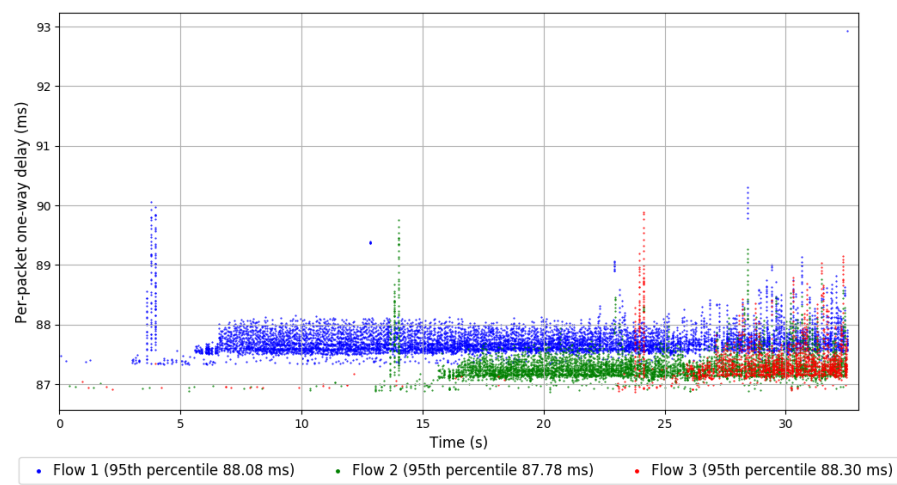
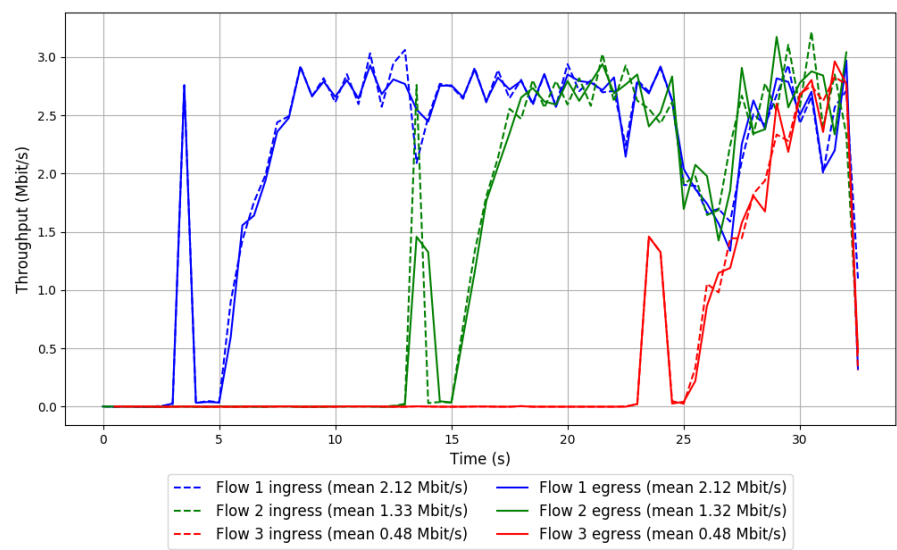


Run 3: Statistics of WebRTC media

Start at: 2018-01-10 00:18:11
End at: 2018-01-10 00:18:41
Local clock offset: 2.082 ms
Remote clock offset: -2.972 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 88.054 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 88.083 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 87.781 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 88.301 ms
Loss rate: 1.04%

Run 3: Report of WebRTC media — Data Link

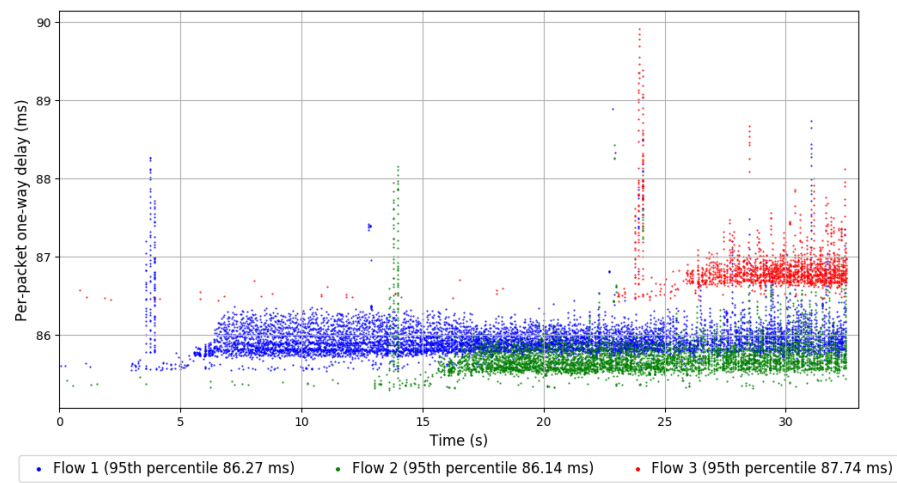
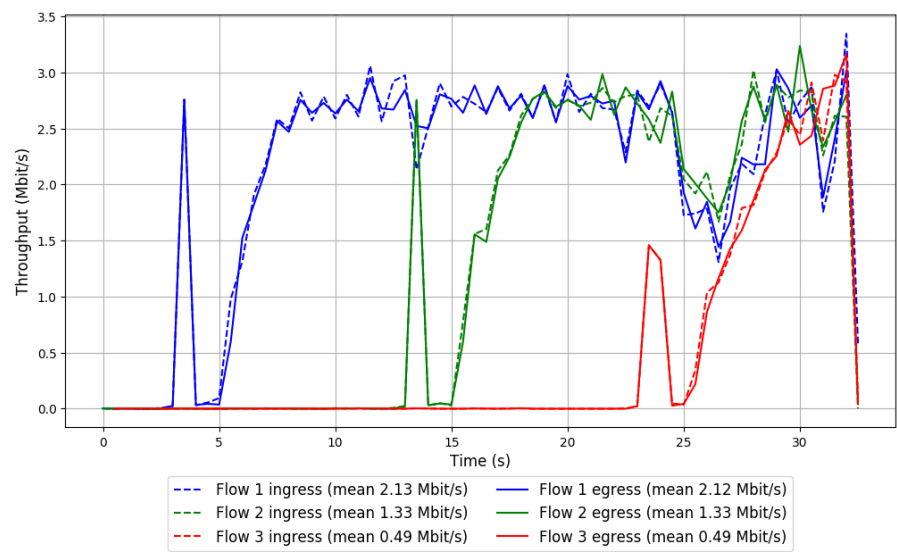


Run 4: Statistics of WebRTC media

Start at: 2018-01-10 00:37:57
End at: 2018-01-10 00:38:27
Local clock offset: 2.55 ms
Remote clock offset: -2.678 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 86.888 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 86.273 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 86.143 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 87.739 ms
Loss rate: 1.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-10 00:57:36

End at: 2018-01-10 00:58:06

Local clock offset: 2.192 ms

Remote clock offset: 2.219 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 81.808 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 81.879 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 81.105 ms

Loss rate: 0.78%

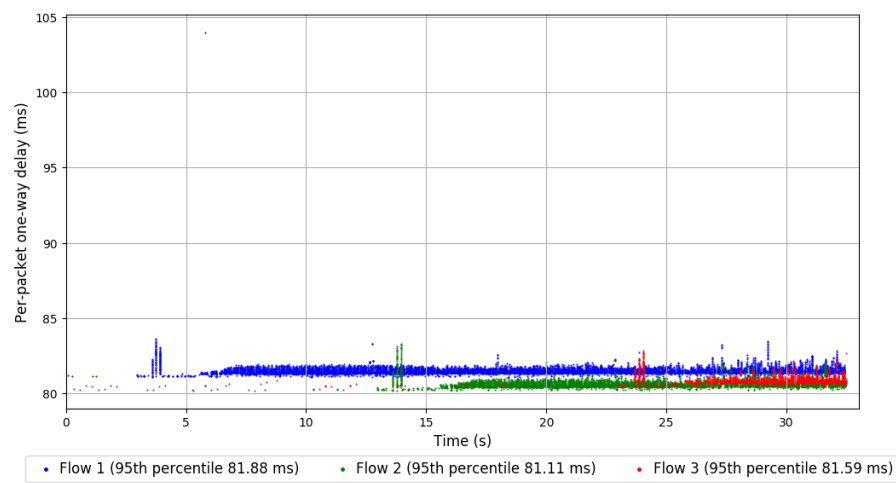
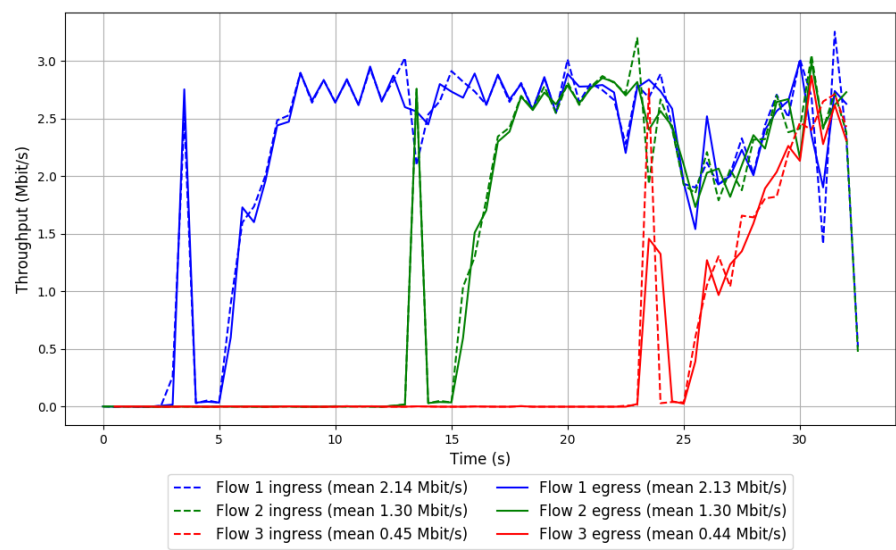
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 81.593 ms

Loss rate: 2.03%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-10 01:17:14

End at: 2018-01-10 01:17:44

Local clock offset: 2.192 ms

Remote clock offset: 1.663 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 82.885 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 82.832 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 82.889 ms

Loss rate: 0.72%

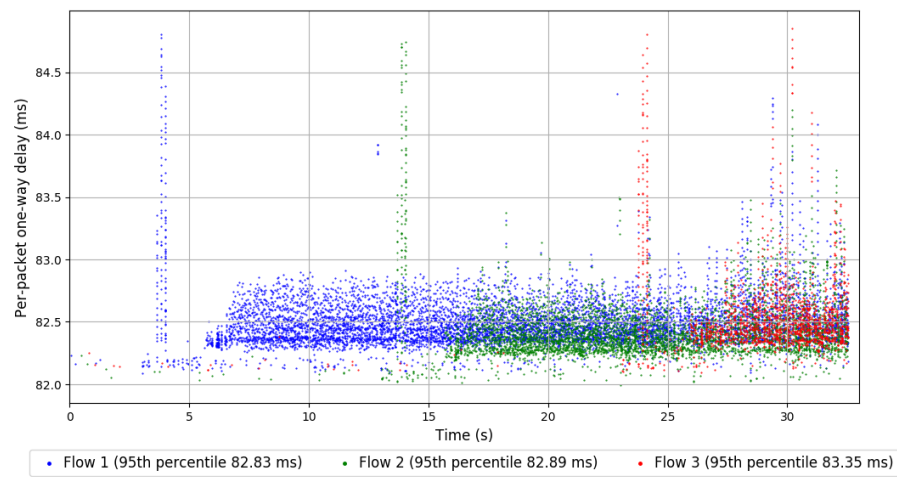
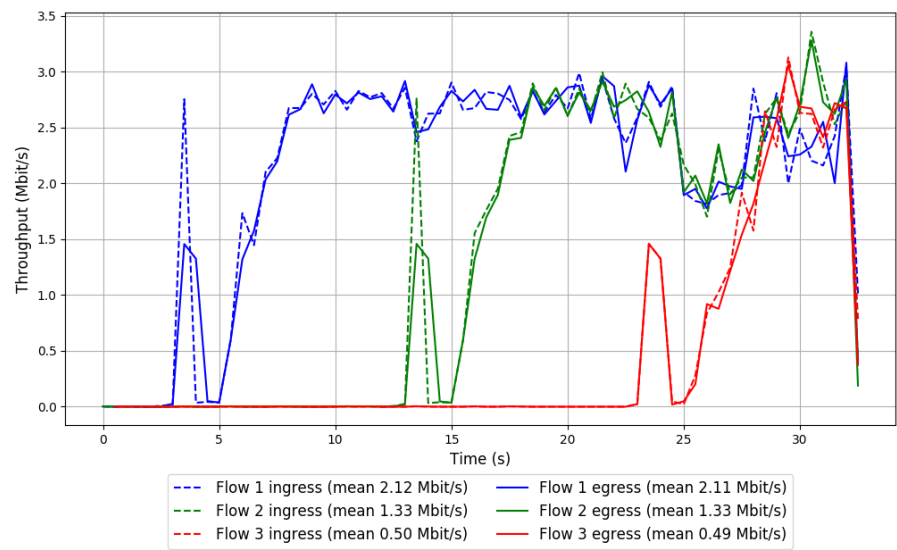
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 83.349 ms

Loss rate: 2.48%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-10 01:36:50

End at: 2018-01-10 01:37:20

Local clock offset: 2.506 ms

Remote clock offset: 2.203 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 81.341 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 81.016 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 81.549 ms

Loss rate: 0.50%

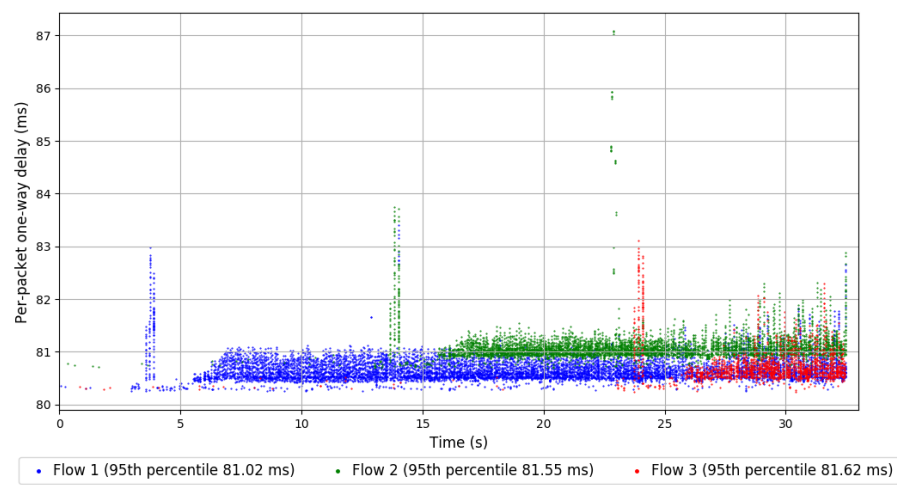
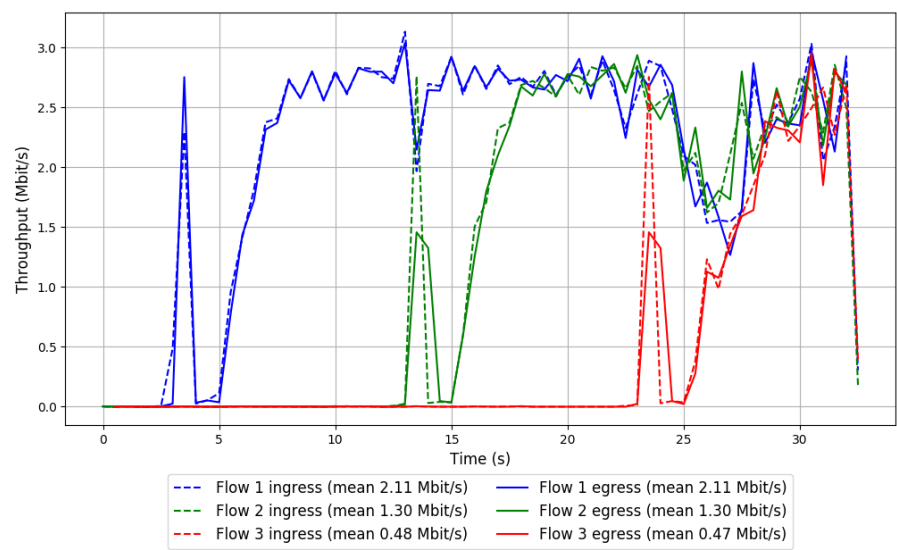
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 81.618 ms

Loss rate: 2.64%

Run 7: Report of WebRTC media — Data Link

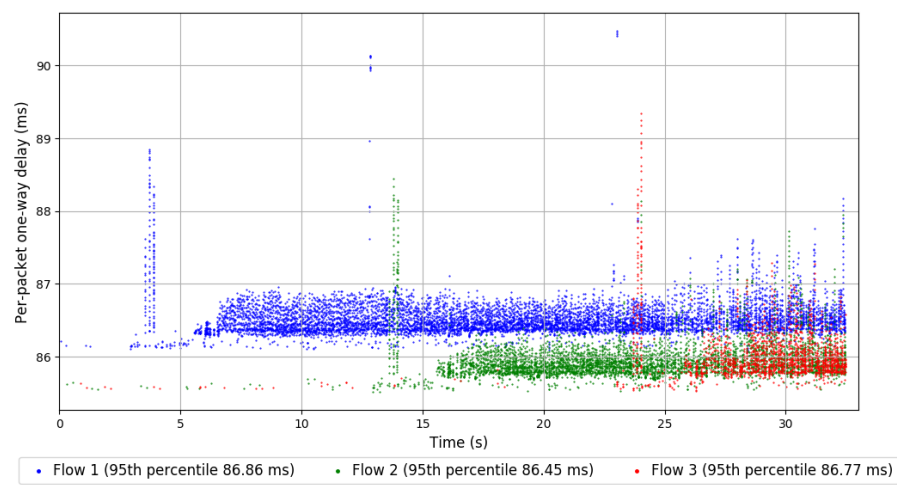
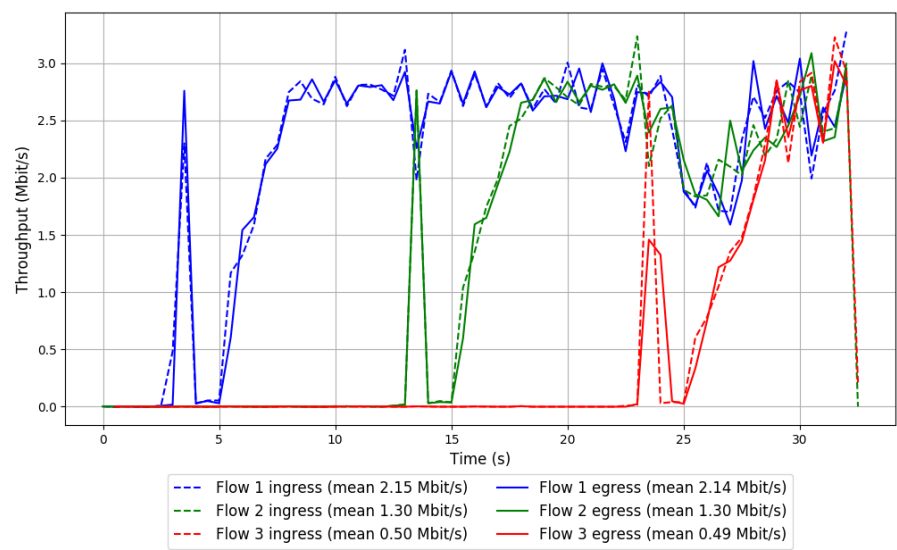


Run 8: Statistics of WebRTC media

Start at: 2018-01-10 01:56:24
End at: 2018-01-10 01:56:54
Local clock offset: 2.163 ms
Remote clock offset: -3.113 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 86.819 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 86.858 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 86.451 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 86.769 ms
Loss rate: 2.93%

Run 8: Report of WebRTC media — Data Link

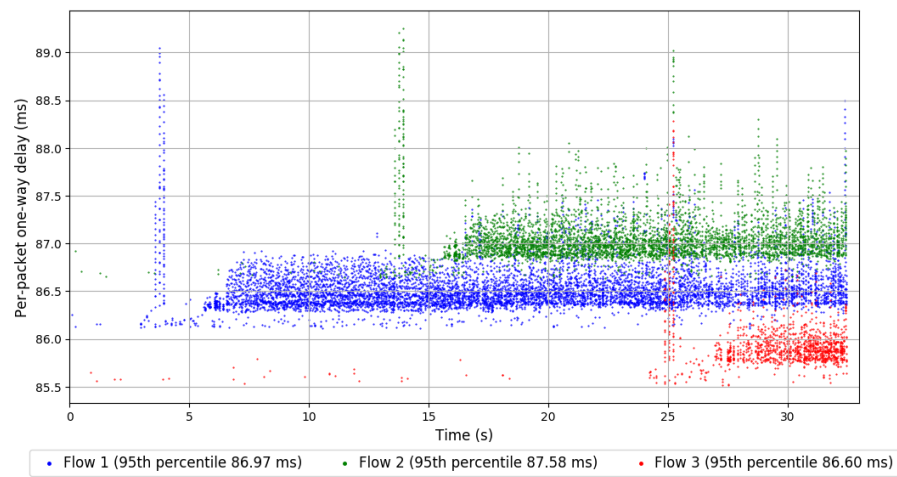
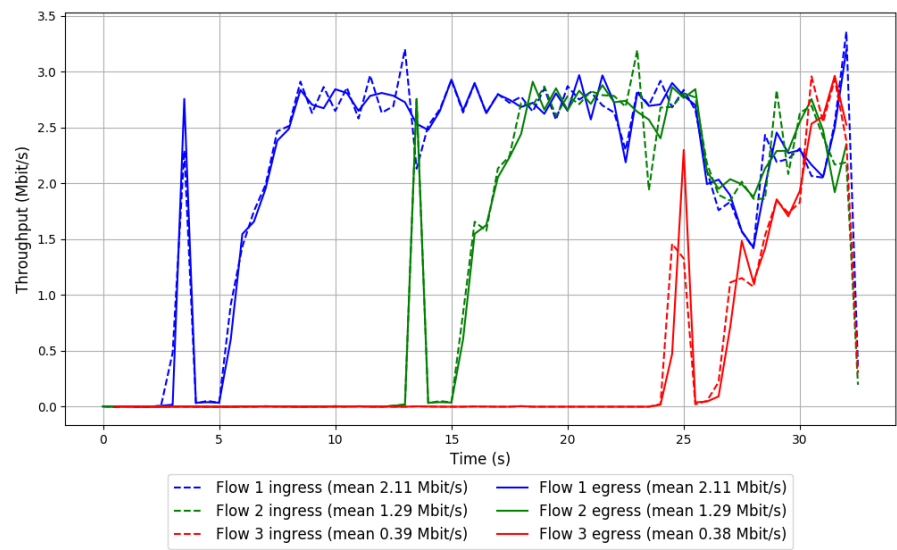


Run 9: Statistics of WebRTC media

Start at: 2018-01-10 02:15:58
End at: 2018-01-10 02:16:28
Local clock offset: 2.091 ms
Remote clock offset: -3.304 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 87.312 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 86.965 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 87.579 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 86.598 ms
Loss rate: 2.84%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

End at: 2018-01-10 02:36:05

Local clock offset: 2.175 ms

Remote clock offset: 1.206 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 82.321 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 81.492 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 82.608 ms

Loss rate: 0.43%

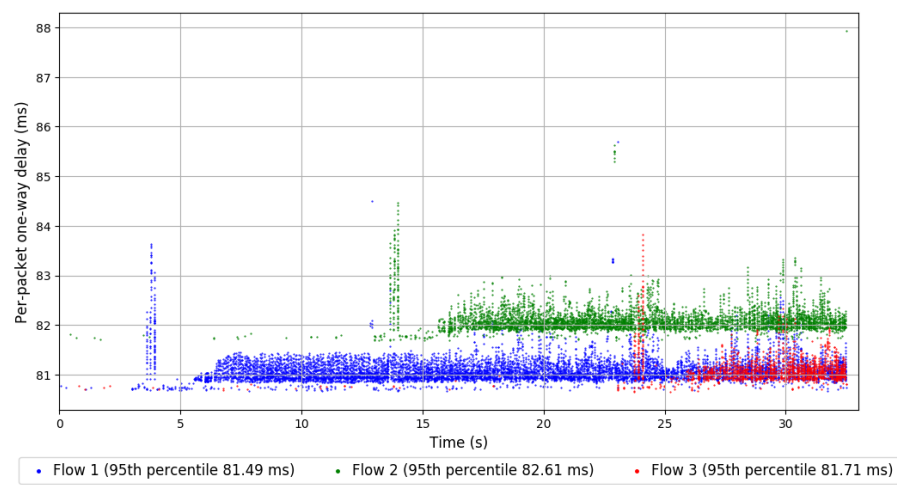
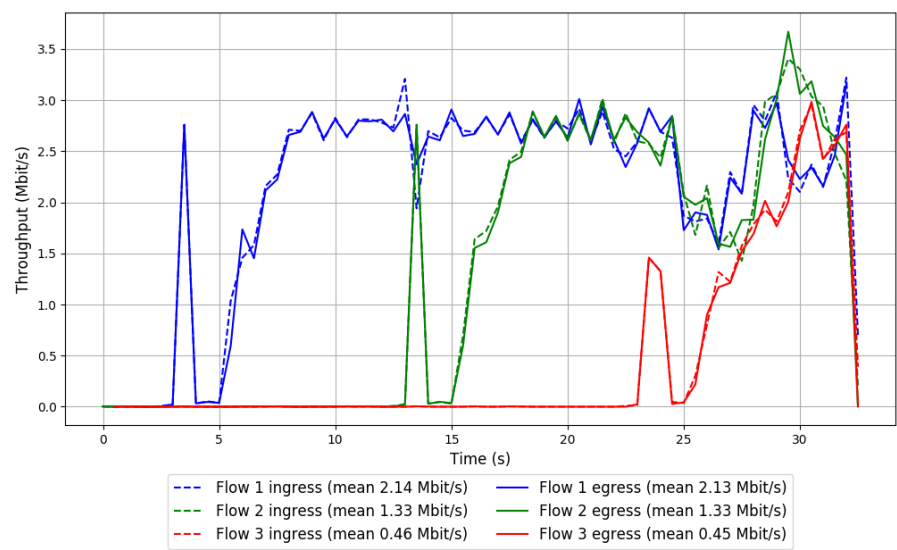
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 81.713 ms

Loss rate: 2.64%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-09 23:48:01

End at: 2018-01-09 23:48:31

Local clock offset: 1.341 ms

Remote clock offset: 2.292 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 87.927 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 88.581 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 85.904 ms

Loss rate: 1.15%

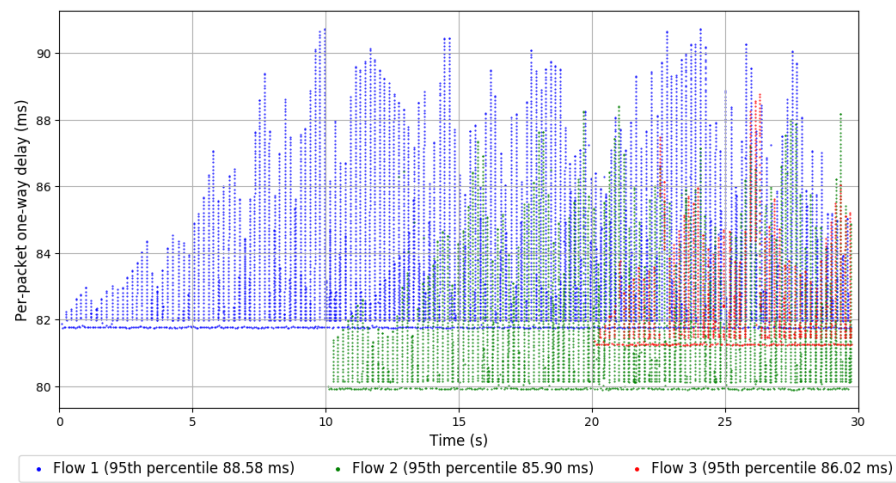
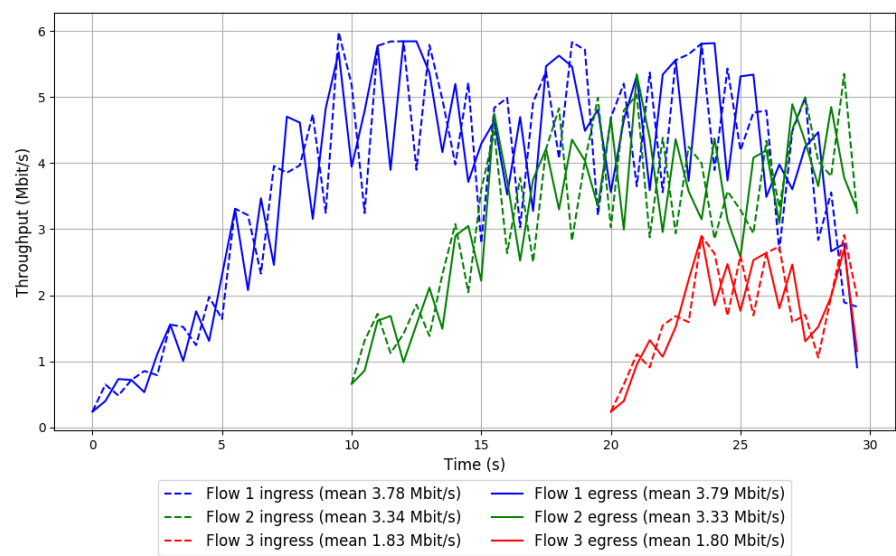
-- Flow 3:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 86.020 ms

Loss rate: 2.90%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-10 00:07:42

End at: 2018-01-10 00:08:12

Local clock offset: 1.815 ms

Remote clock offset: 2.075 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 87.486 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 86.957 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 88.224 ms

Loss rate: 1.10%

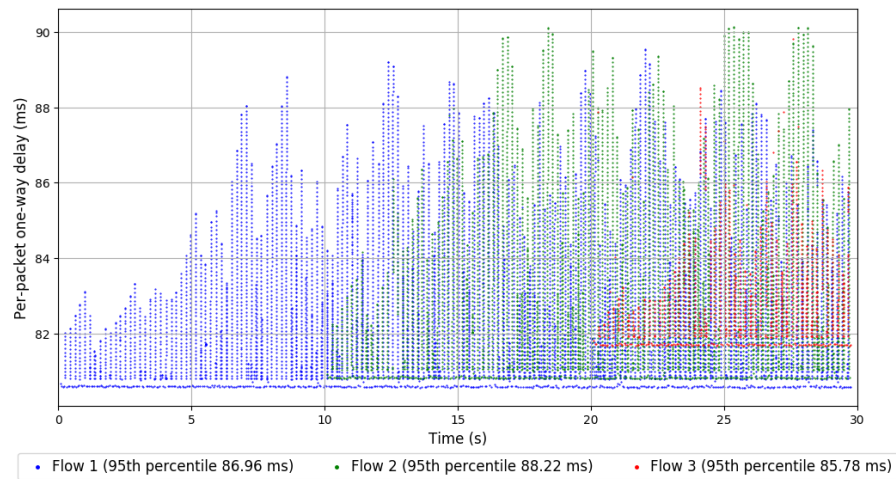
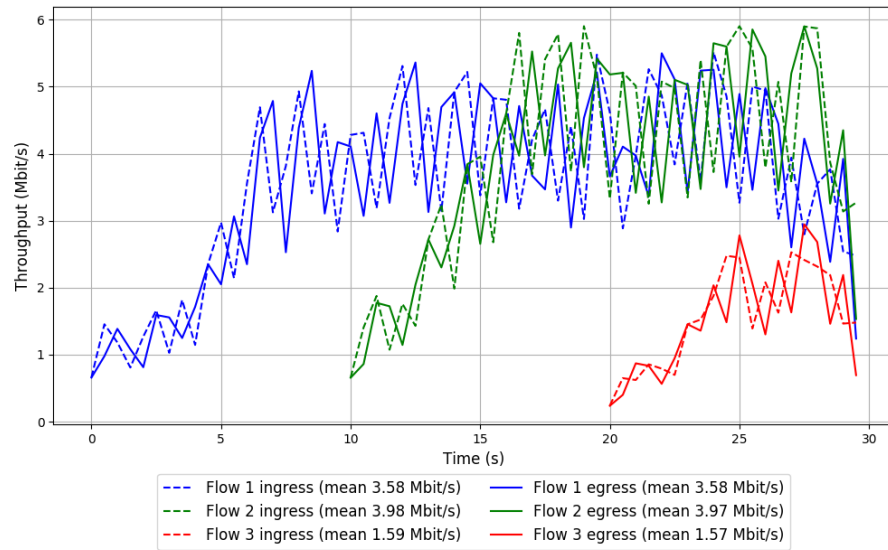
-- Flow 3:

Average throughput: 1.57 Mbit/s

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

Loss rate: 2.53%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-10 00:27:26

End at: 2018-01-10 00:27:56

Local clock offset: 2.285 ms

Remote clock offset: 2.231 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 87.726 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 87.673 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 87.814 ms

Loss rate: 1.51%

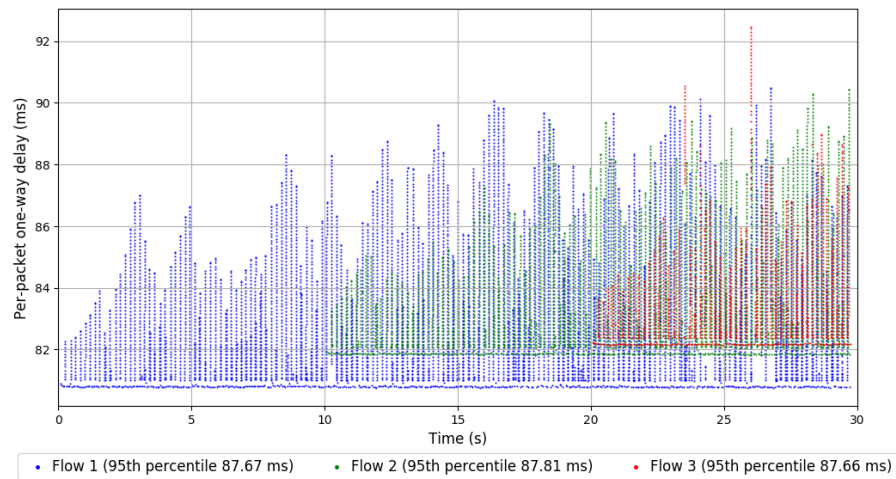
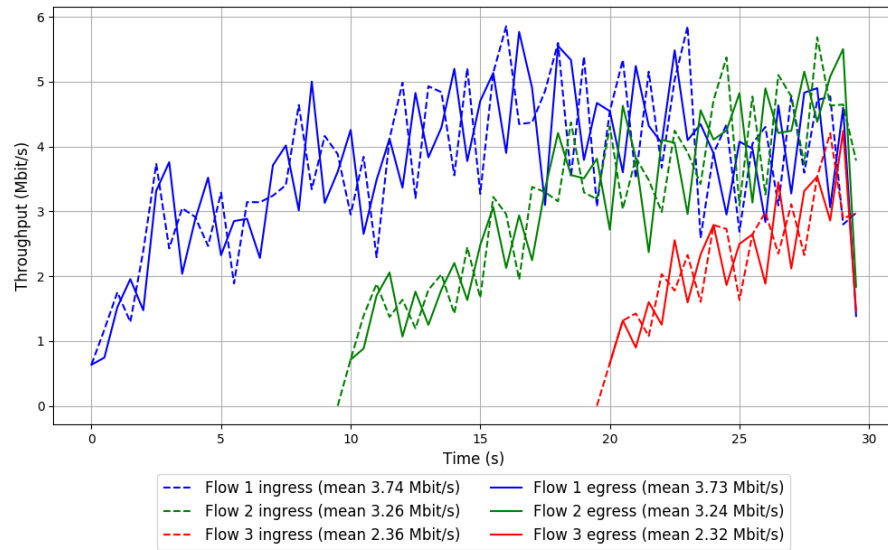
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 87.660 ms

Loss rate: 3.25%

Run 3: Report of Sprout — Data Link

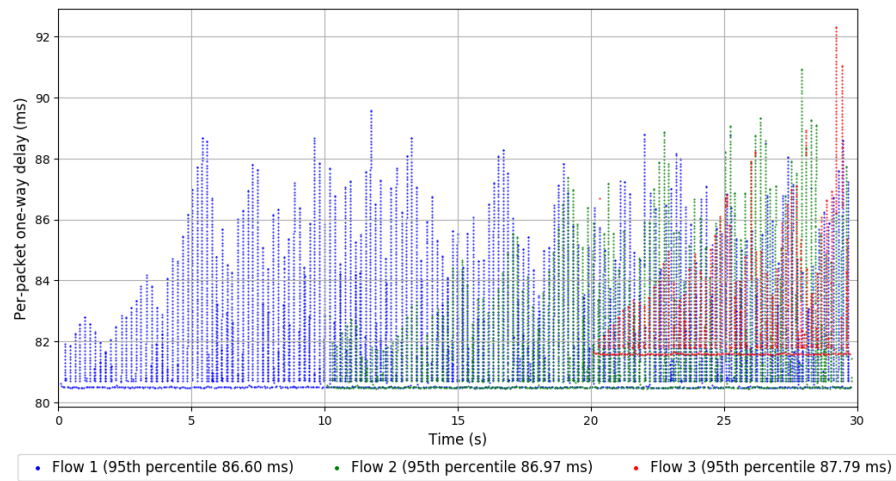
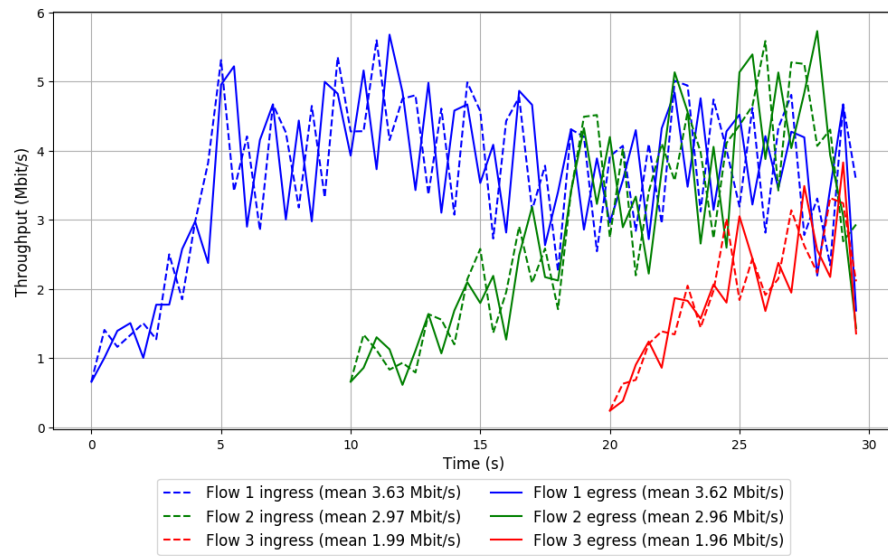


Run 4: Statistics of Sprout

Start at: 2018-01-10 00:47:06
End at: 2018-01-10 00:47:36
Local clock offset: 2.368 ms
Remote clock offset: 2.234 ms

```
# Below is generated by plot.py at 2018-01-10 06:23:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 86.766 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 86.601 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 86.966 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 87.786 ms
Loss rate: 3.36%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-10 01:06:45

End at: 2018-01-10 01:07:15

Local clock offset: 2.06 ms

Remote clock offset: 1.55 ms

Below is generated by plot.py at 2018-01-10 06:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 87.465 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 87.130 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 87.988 ms

Loss rate: 0.96%

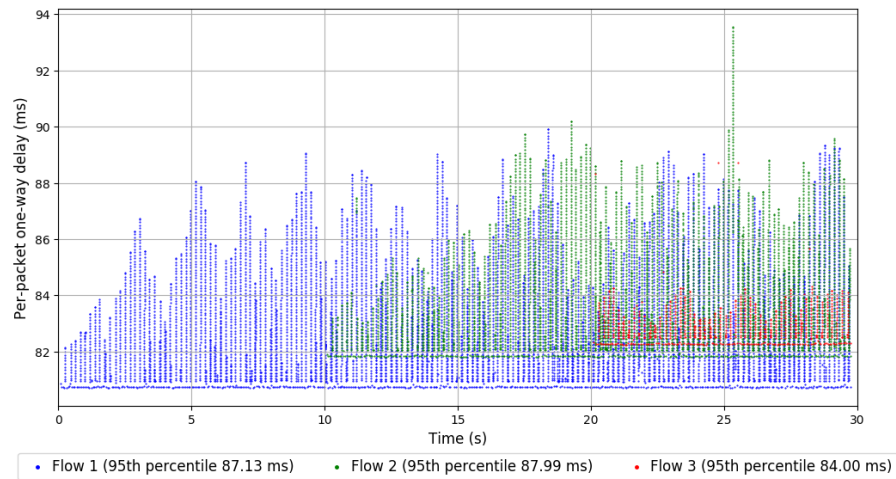
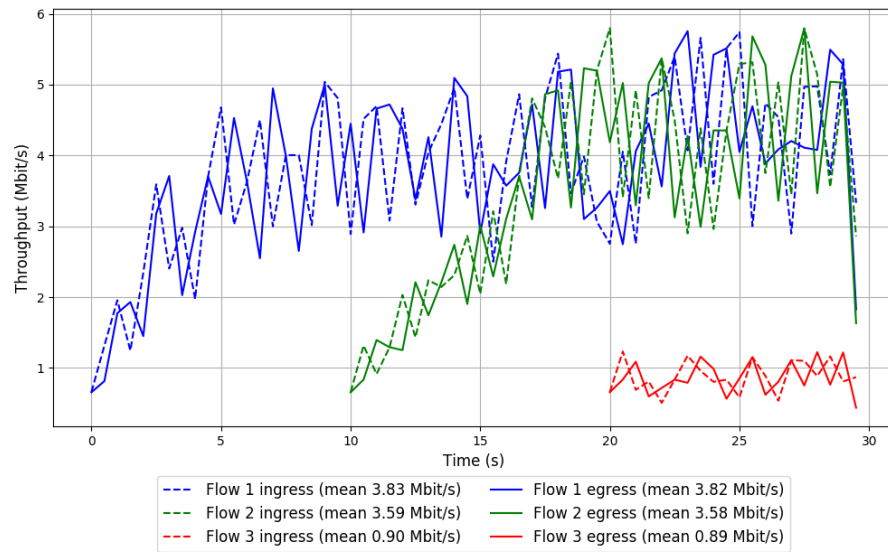
-- Flow 3:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 83.996 ms

Loss rate: 2.48%

Run 5: Report of Sprout — Data Link

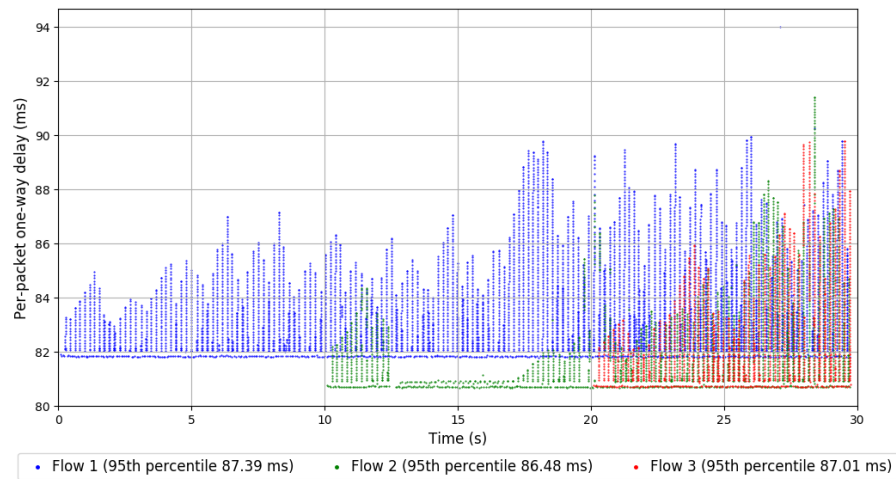
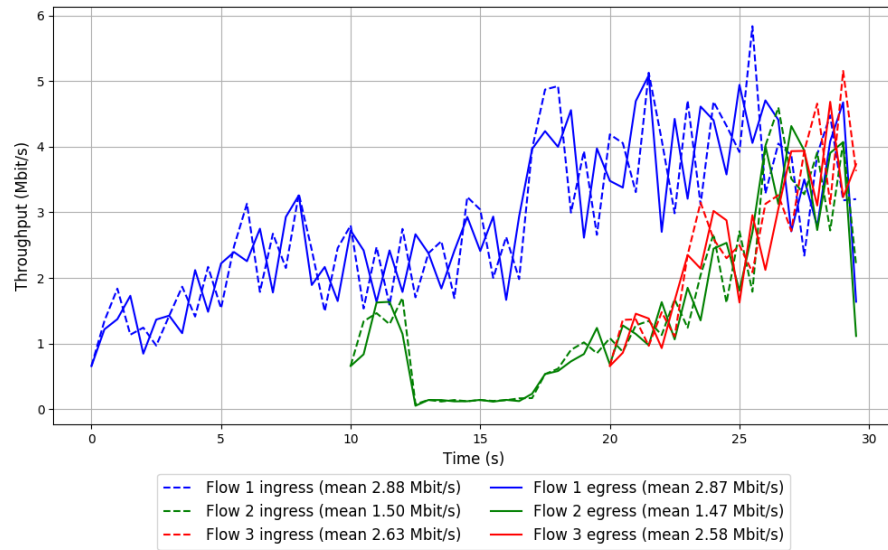


Run 6: Statistics of Sprout

Start at: 2018-01-10 01:26:21
End at: 2018-01-10 01:26:51
Local clock offset: 2.381 ms
Remote clock offset: 2.023 ms

```
# Below is generated by plot.py at 2018-01-10 06:23:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 87.143 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 87.394 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 86.479 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 87.008 ms
Loss rate: 3.53%
```

Run 6: Report of Sprout — Data Link

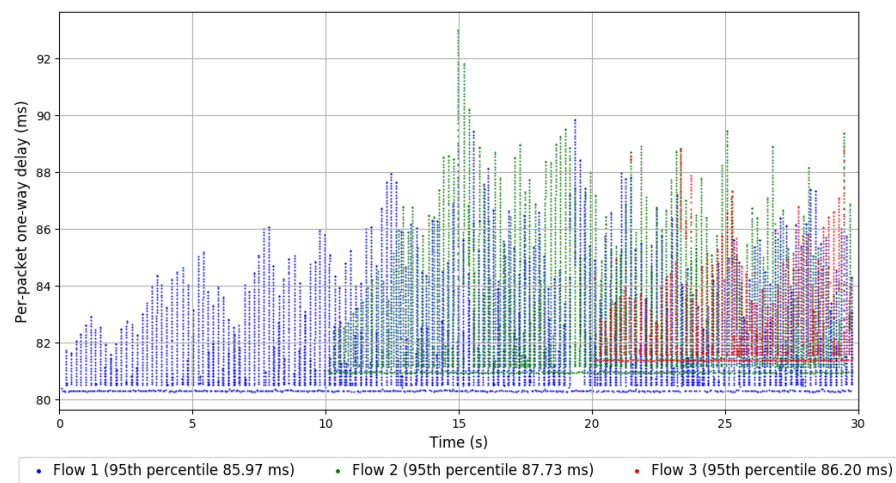
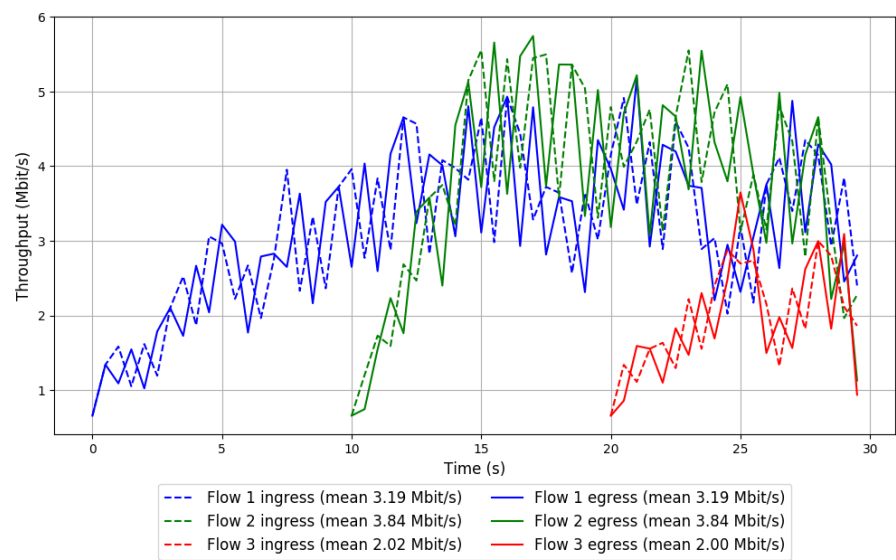


Run 7: Statistics of Sprout

Start at: 2018-01-10 01:45:56
End at: 2018-01-10 01:46:26
Local clock offset: 2.318 ms
Remote clock offset: 2.347 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 86.857 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 85.966 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 87.734 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 86.205 ms
Loss rate: 2.35%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

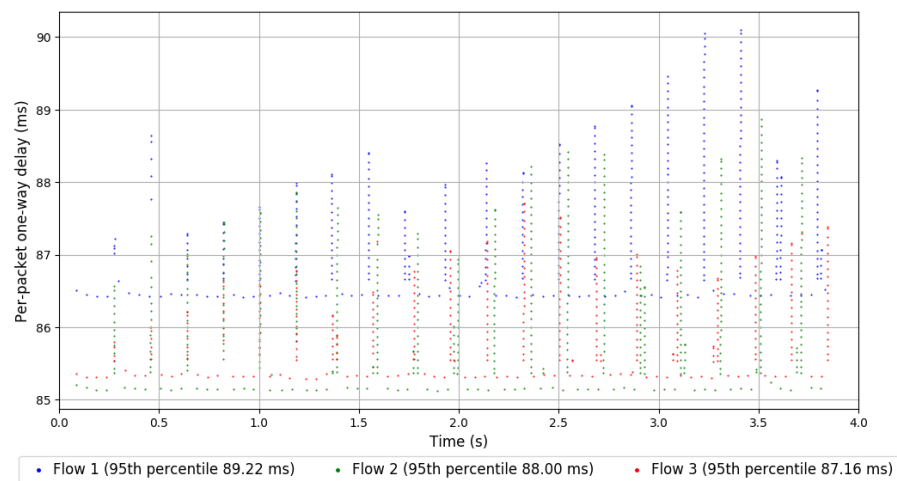
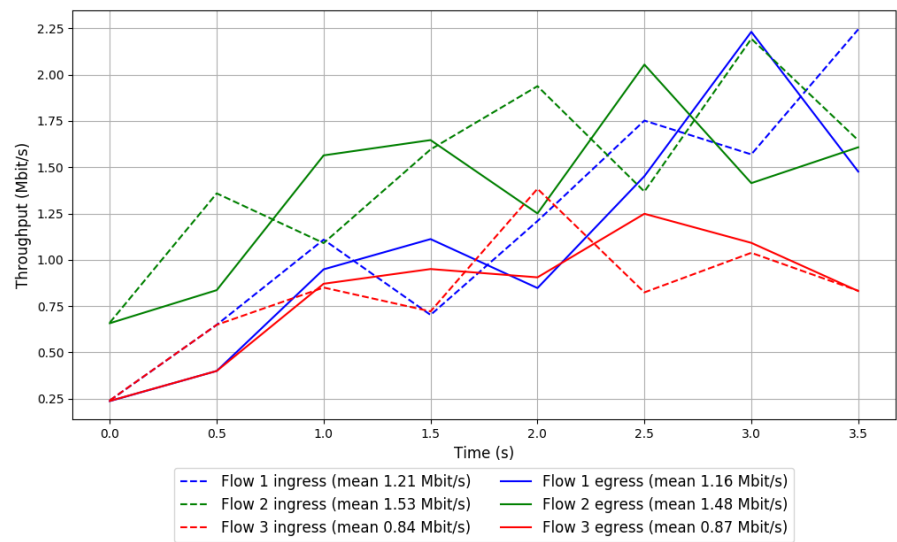
Start at: 2018-01-10 02:05:31

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

Local clock offset: 2.101 ms

Remote clock offset: -3.258 ms

Run 8: Report of Sprout — Data Link

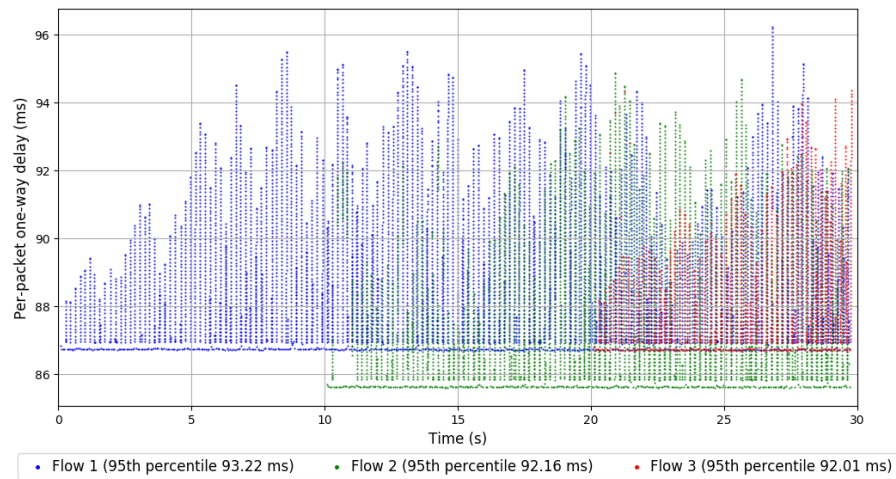
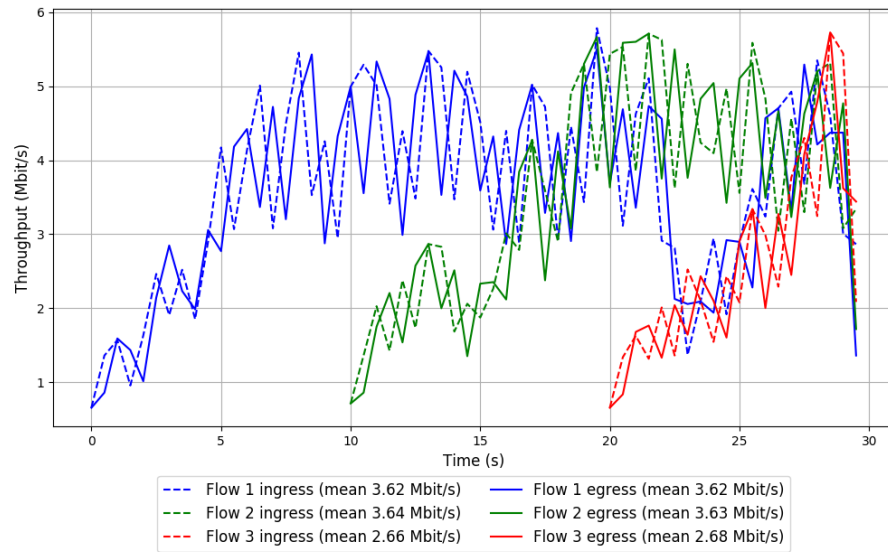


Run 9: Statistics of Sprout

Start at: 2018-01-10 02:25:06
End at: 2018-01-10 02:25:36
Local clock offset: 2.227 ms
Remote clock offset: -3.352 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 92.798 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 93.225 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 92.162 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 92.009 ms
Loss rate: 0.90%

Run 9: Report of Sprout — Data Link

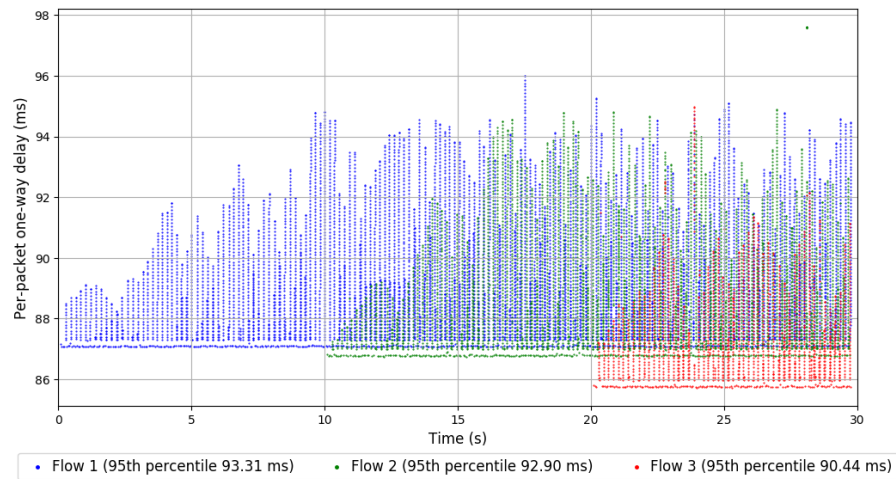
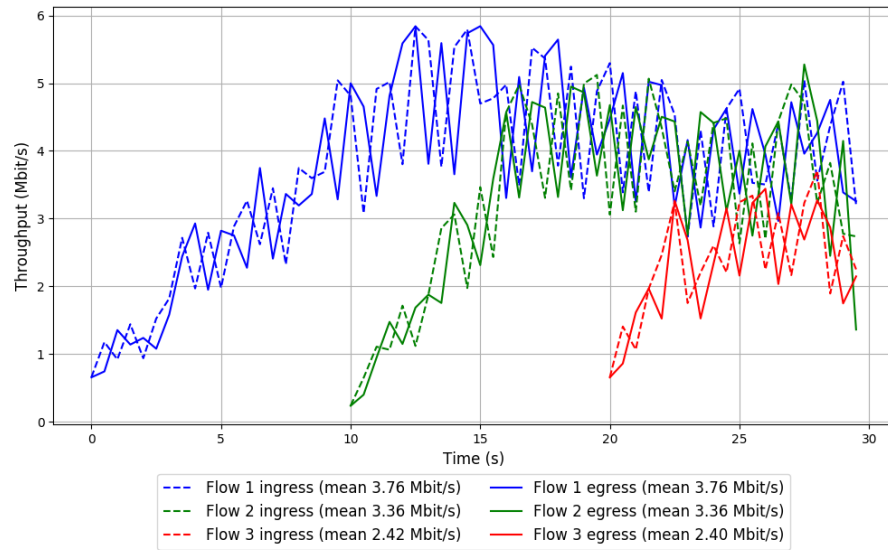


Run 10: Statistics of Sprout

Start at: 2018-01-10 02:44:43
End at: 2018-01-10 02:45:13
Local clock offset: 2.007 ms
Remote clock offset: -4.166 ms

Below is generated by plot.py at 2018-01-10 06:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 93.065 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 93.307 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 92.898 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 90.435 ms
Loss rate: 2.31%

Run 10: Report of Sprout — Data Link

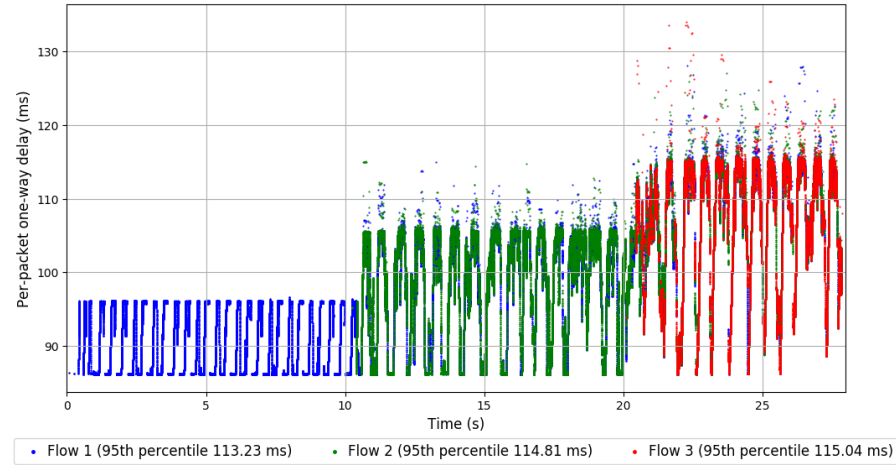
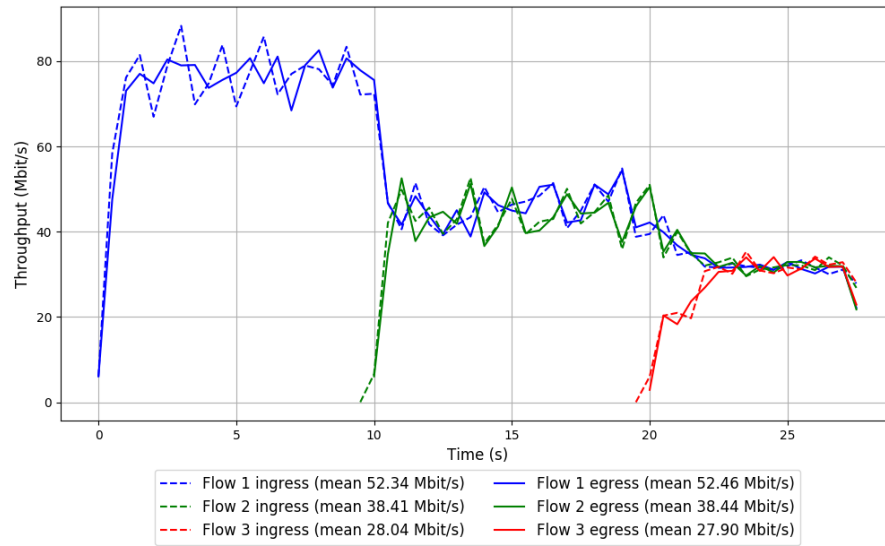


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 23:50:35
End at: 2018-01-09 23:51:05
Local clock offset: 2.257 ms
Remote clock offset: -2.892 ms

Below is generated by plot.py at 2018-01-10 06:26:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 114.742 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 52.46 Mbit/s
95th percentile per-packet one-way delay: 113.232 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 114.806 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 27.90 Mbit/s
95th percentile per-packet one-way delay: 115.041 ms
Loss rate: 2.83%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-10 00:10:15

End at: 2018-01-10 00:10:45

Local clock offset: 1.912 ms

Remote clock offset: 2.144 ms

Below is generated by plot.py at 2018-01-10 06:26:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 110.153 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 107.425 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 110.980 ms

Loss rate: 0.84%

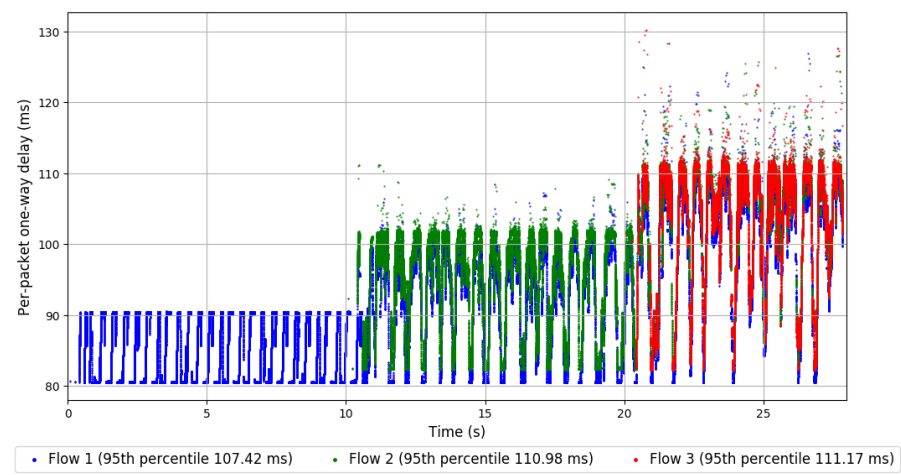
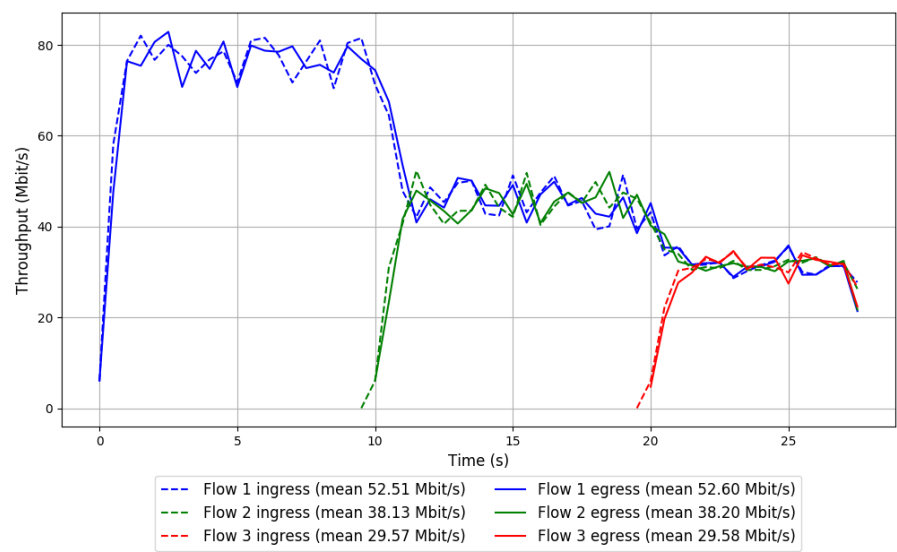
-- Flow 3:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 111.175 ms

Loss rate: 2.36%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-10 00:29:59

End at: 2018-01-10 00:30:29

Local clock offset: 2.52 ms

Remote clock offset: 2.261 ms

Below is generated by plot.py at 2018-01-10 06:26:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 109.695 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 52.31 Mbit/s

95th percentile per-packet one-way delay: 108.611 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 39.01 Mbit/s

95th percentile per-packet one-way delay: 109.410 ms

Loss rate: 0.75%

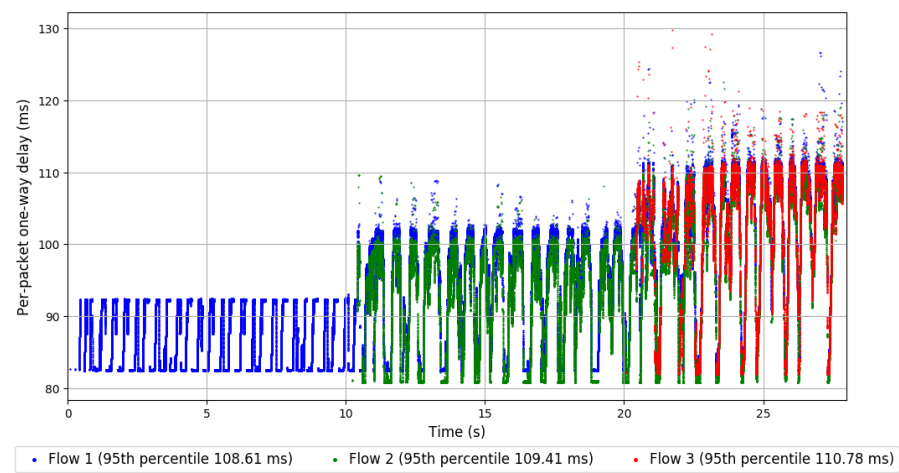
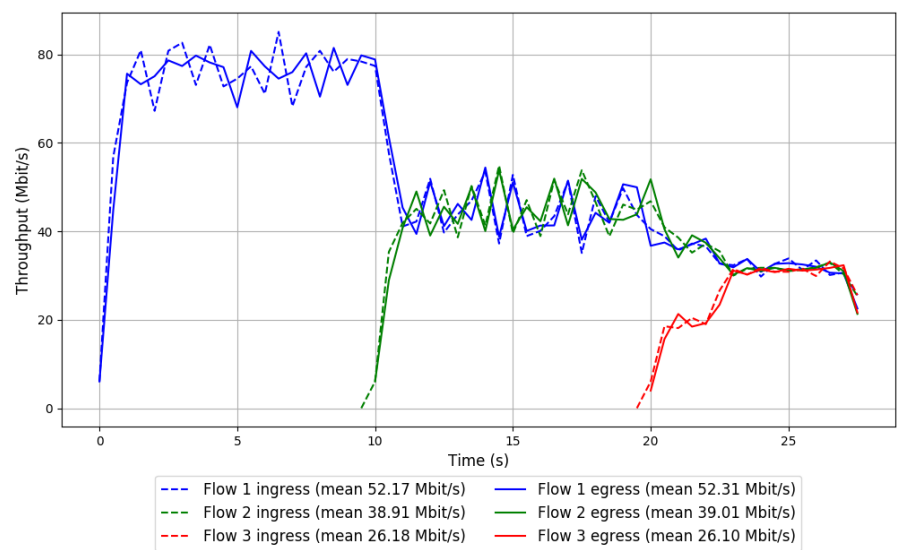
-- Flow 3:

Average throughput: 26.10 Mbit/s

95th percentile per-packet one-way delay: 110.781 ms

Loss rate: 2.53%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-10 00:49:40

End at: 2018-01-10 00:50:10

Local clock offset: 2.301 ms

Remote clock offset: 2.198 ms

Below is generated by plot.py at 2018-01-10 06:26:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.68 Mbit/s

95th percentile per-packet one-way delay: 109.313 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 52.28 Mbit/s

95th percentile per-packet one-way delay: 107.958 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 38.95 Mbit/s

95th percentile per-packet one-way delay: 110.314 ms

Loss rate: 0.86%

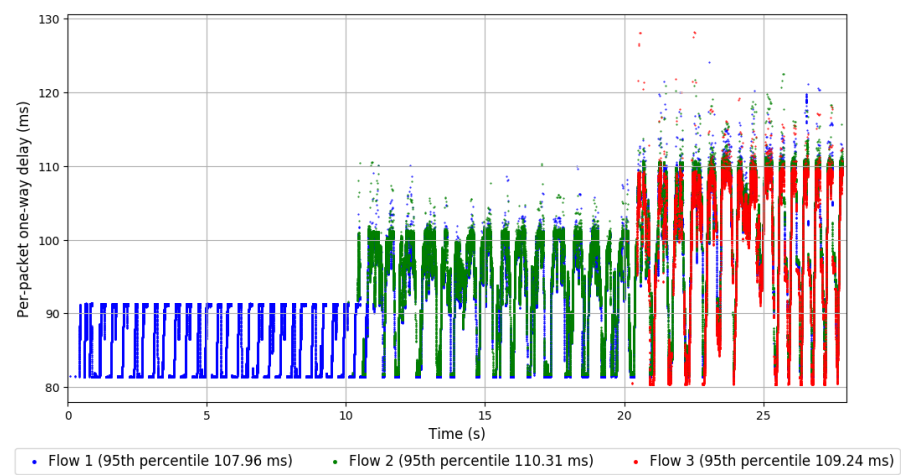
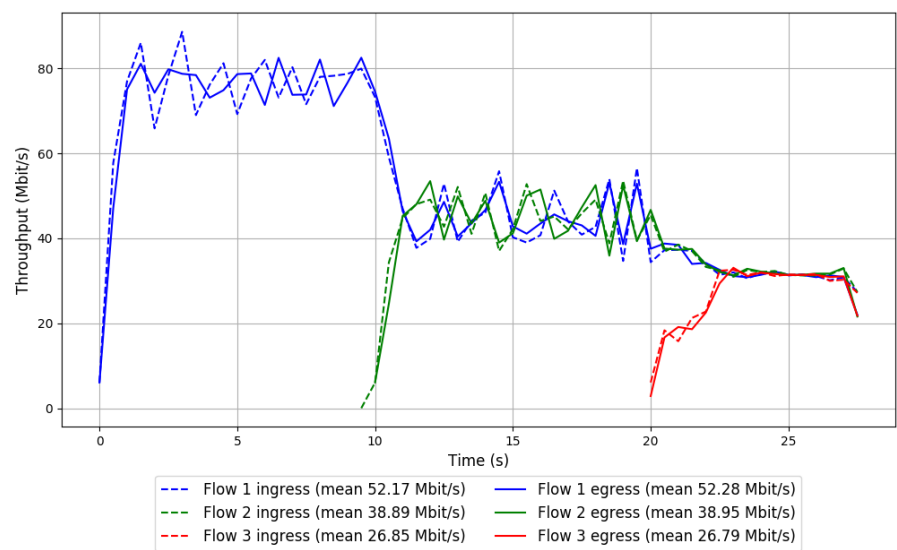
-- Flow 3:

Average throughput: 26.79 Mbit/s

95th percentile per-packet one-way delay: 109.236 ms

Loss rate: 2.56%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-10 01:09:18

End at: 2018-01-10 01:09:48

Local clock offset: 1.979 ms

Remote clock offset: 1.536 ms

Below is generated by plot.py at 2018-01-10 06:26:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.61 Mbit/s

95th percentile per-packet one-way delay: 108.754 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 105.671 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 109.380 ms

Loss rate: 1.09%

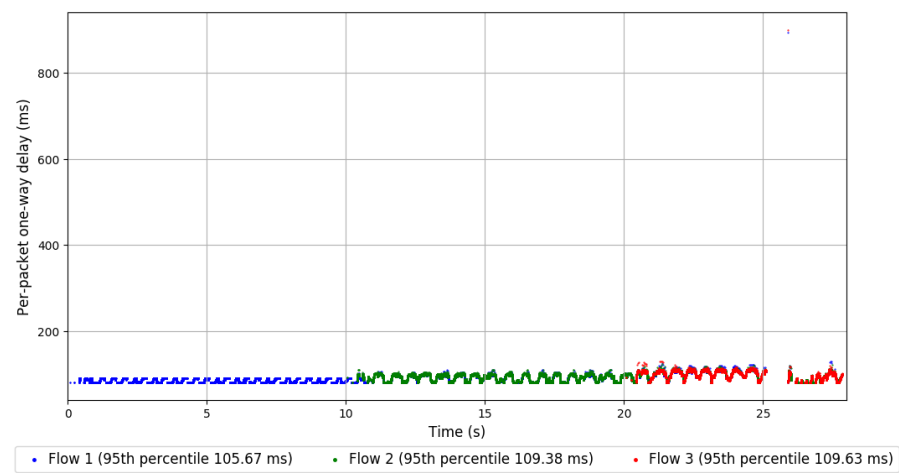
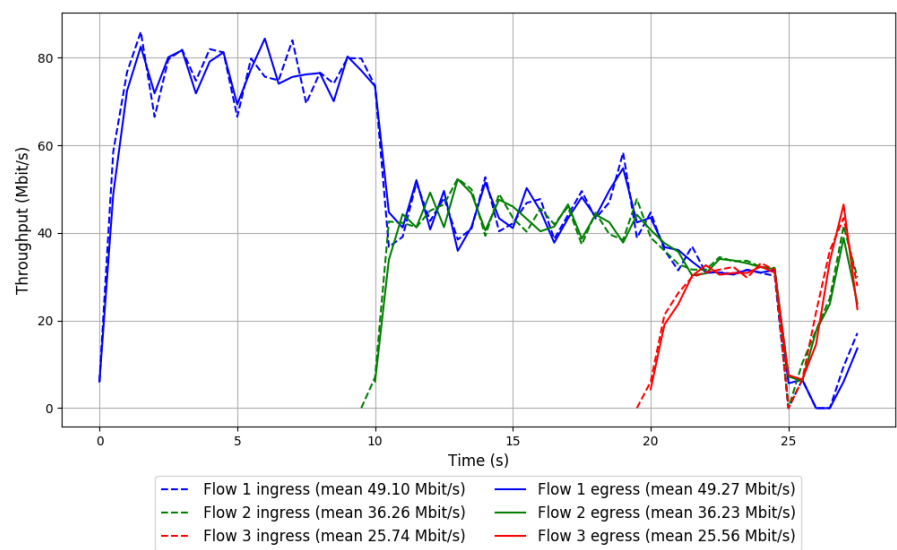
-- Flow 3:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 109.629 ms

Loss rate: 2.92%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-10 01:28:54

End at: 2018-01-10 01:29:24

Local clock offset: 2.509 ms

Remote clock offset: 2.378 ms

Below is generated by plot.py at 2018-01-10 06:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.67 Mbit/s

95th percentile per-packet one-way delay: 109.643 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 52.33 Mbit/s

95th percentile per-packet one-way delay: 107.936 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 109.797 ms

Loss rate: 0.83%

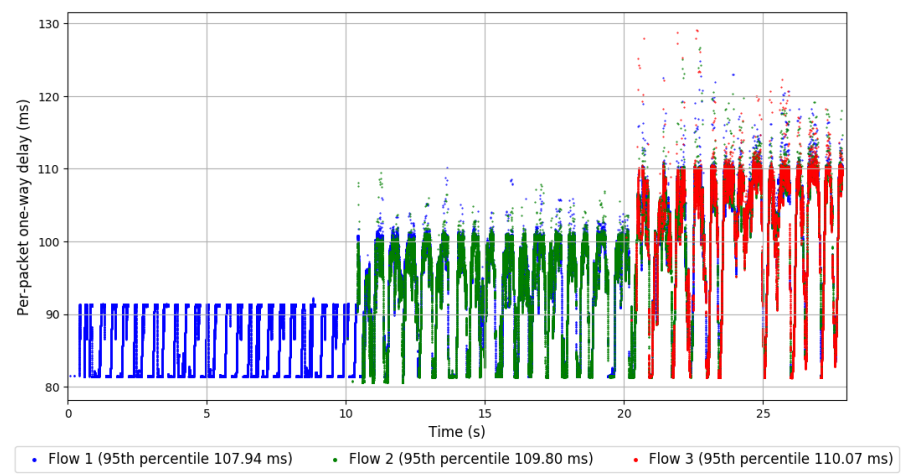
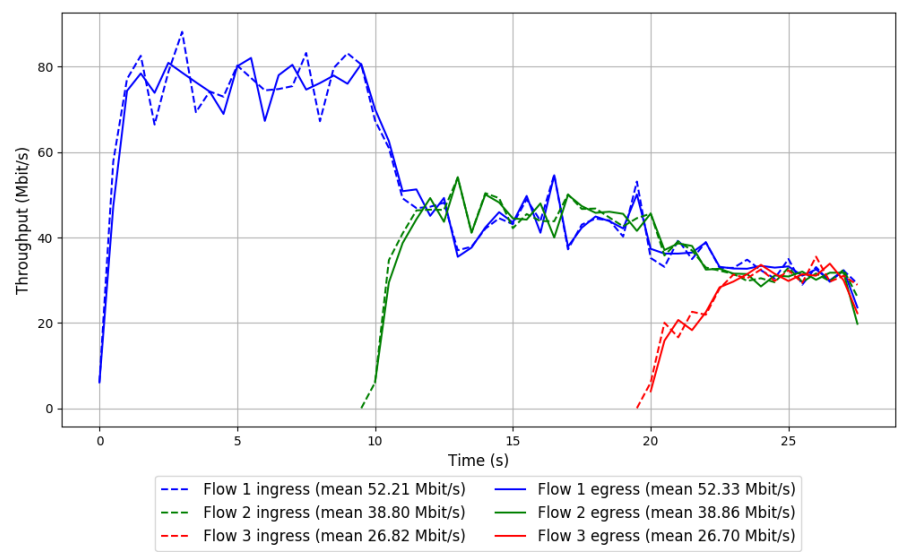
-- Flow 3:

Average throughput: 26.70 Mbit/s

95th percentile per-packet one-way delay: 110.067 ms

Loss rate: 2.82%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-10 01:48:29

End at: 2018-01-10 01:48:59

Local clock offset: 2.366 ms

Remote clock offset: 2.18 ms

Below is generated by plot.py at 2018-01-10 06:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 109.106 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 107.657 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 110.351 ms

Loss rate: 0.83%

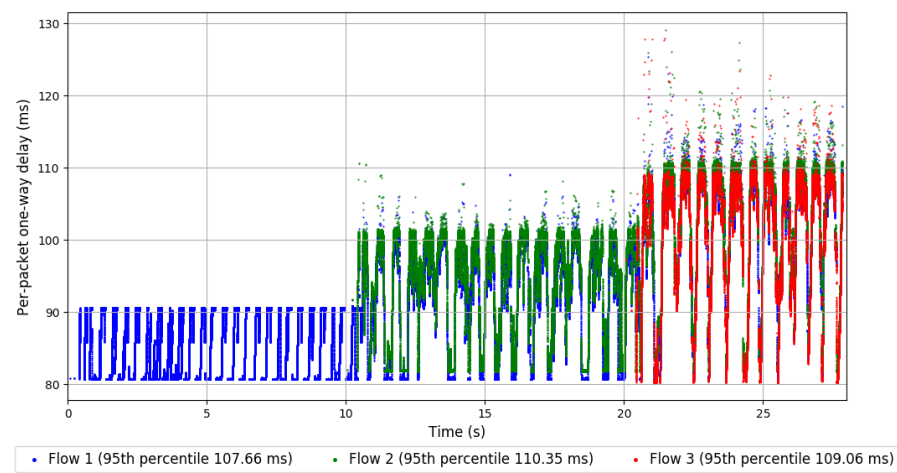
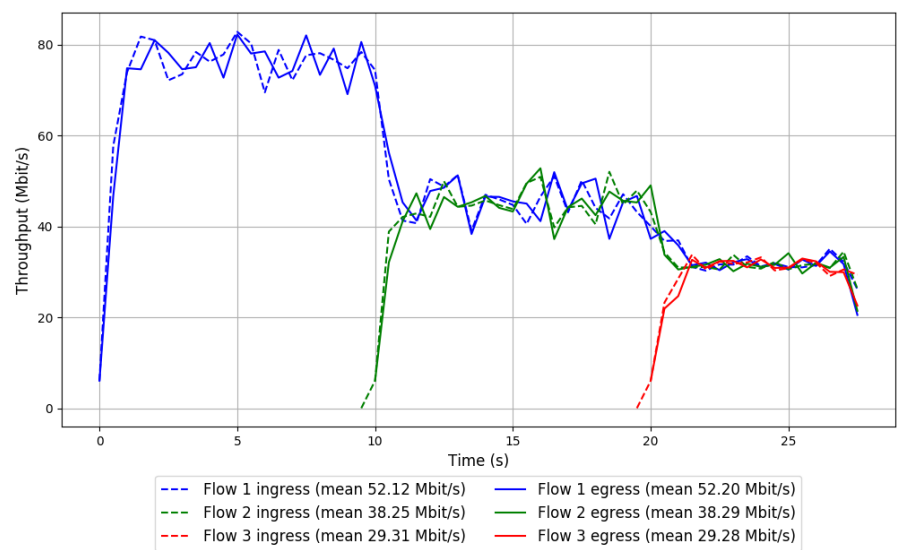
-- Flow 3:

Average throughput: 29.28 Mbit/s

95th percentile per-packet one-way delay: 109.057 ms

Loss rate: 2.58%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-10 02:08:03

End at: 2018-01-10 02:08:33

Local clock offset: 2.112 ms

Remote clock offset: 1.934 ms

Below is generated by plot.py at 2018-01-10 06:26:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.72 Mbit/s

95th percentile per-packet one-way delay: 109.522 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 52.85 Mbit/s

95th percentile per-packet one-way delay: 107.942 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 109.656 ms

Loss rate: 0.92%

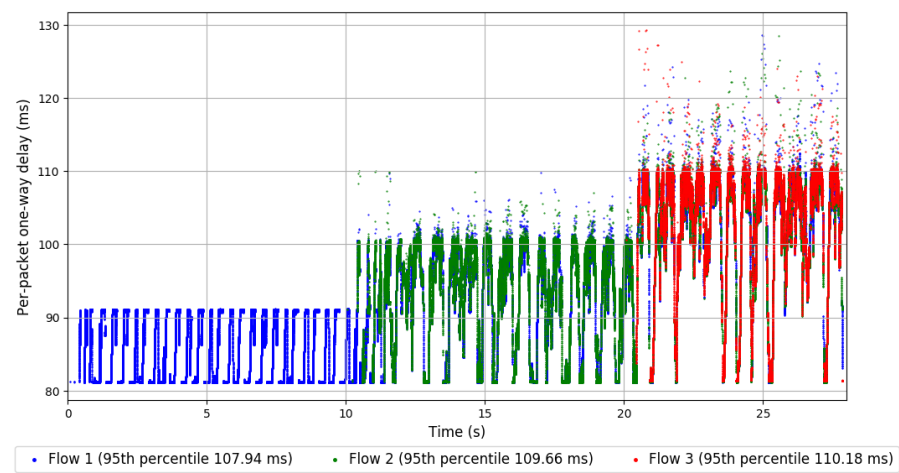
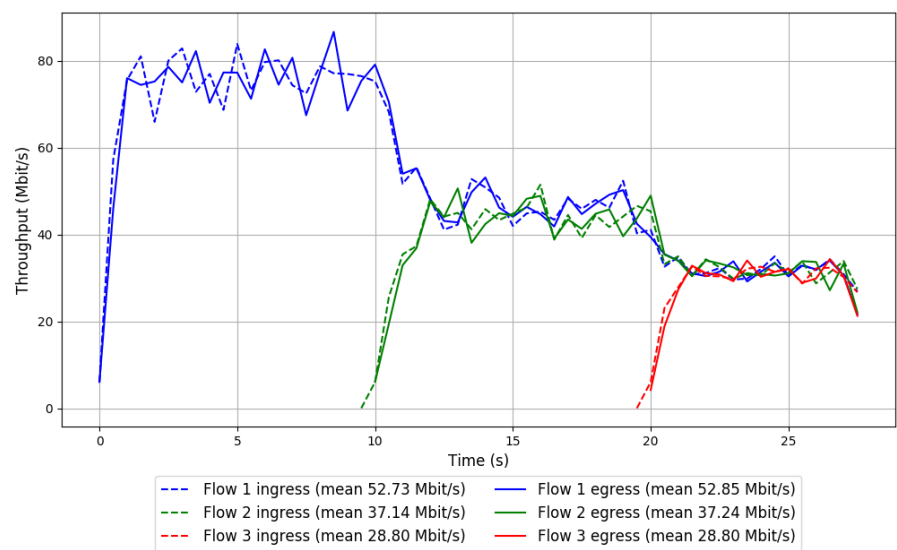
-- Flow 3:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 110.179 ms

Loss rate: 2.58%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-10 02:27:40

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

Local clock offset: 2.233 ms

Remote clock offset: 1.091 ms

Below is generated by plot.py at 2018-01-10 06:30:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.34 Mbit/s

95th percentile per-packet one-way delay: 106.891 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 53.52 Mbit/s

95th percentile per-packet one-way delay: 104.514 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 108.134 ms

Loss rate: 0.85%

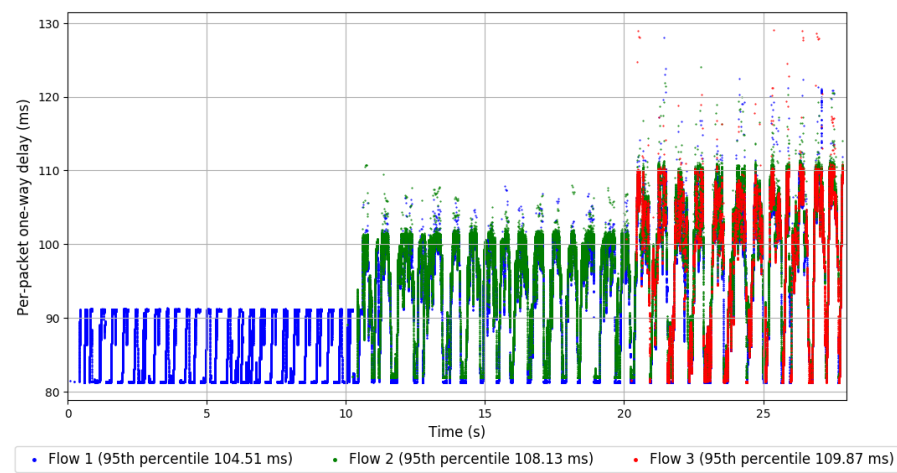
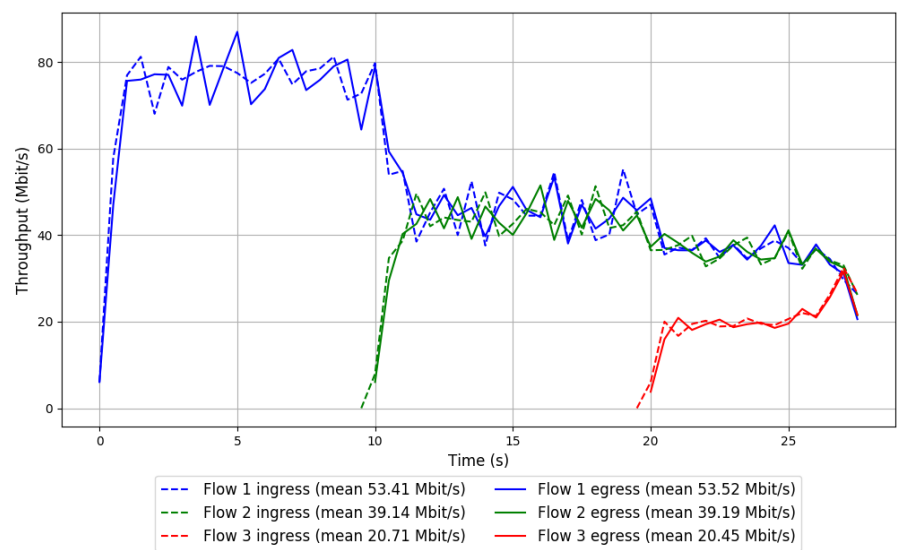
-- Flow 3:

Average throughput: 20.45 Mbit/s

95th percentile per-packet one-way delay: 109.872 ms

Loss rate: 3.56%

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

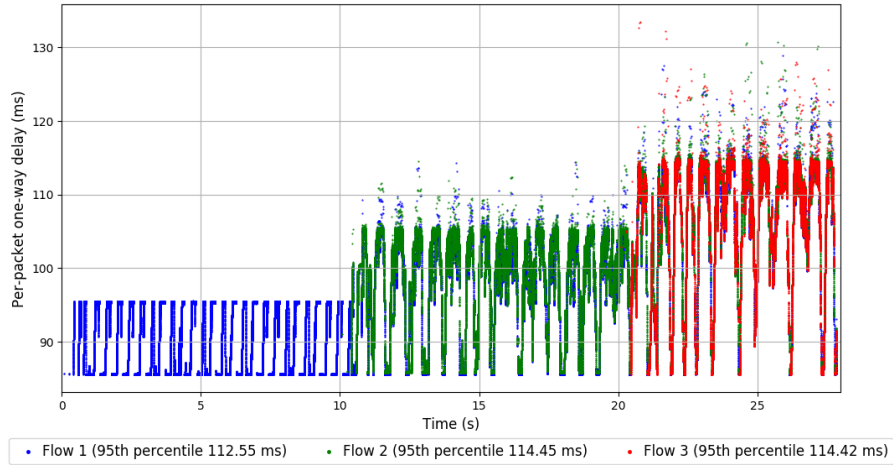
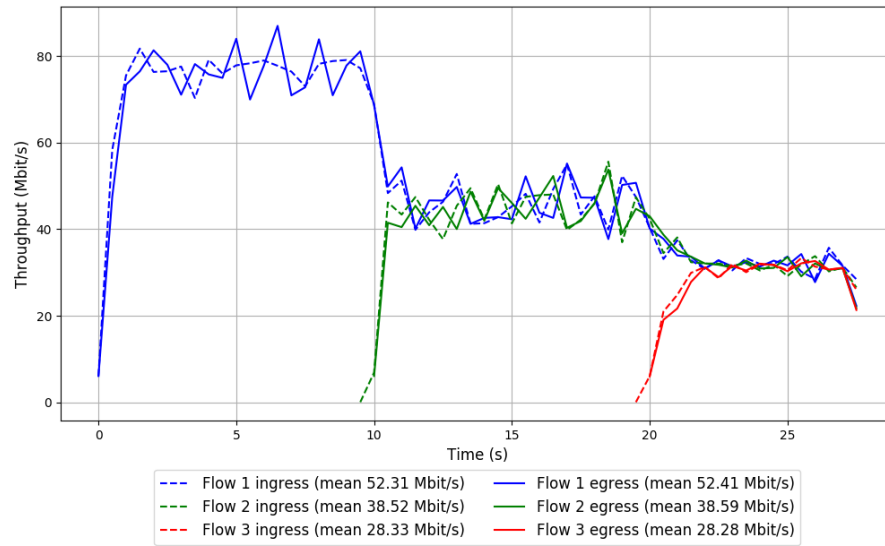


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-10 02:47:15
End at: 2018-01-10 02:47:45
Local clock offset: 1.9 ms
Remote clock offset: -3.864 ms

Below is generated by plot.py at 2018-01-10 06:30:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.01 Mbit/s
95th percentile per-packet one-way delay: 114.181 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 112.553 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 38.59 Mbit/s
95th percentile per-packet one-way delay: 114.453 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 114.418 ms
Loss rate: 2.64%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 23:55:52

End at: 2018-01-09 23:56:22

Local clock offset: 1.417 ms

Remote clock offset: 2.004 ms

Below is generated by plot.py at 2018-01-10 06:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 100.176 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 99.762 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 43.04 Mbit/s

95th percentile per-packet one-way delay: 100.582 ms

Loss rate: 0.87%

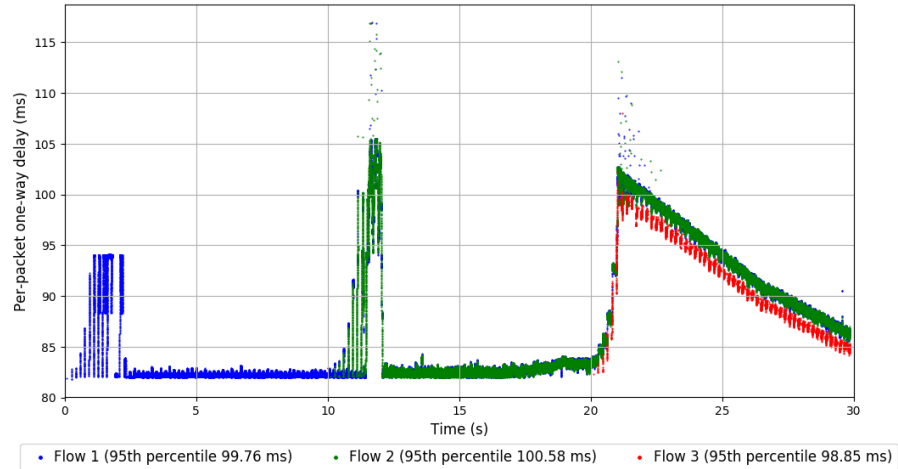
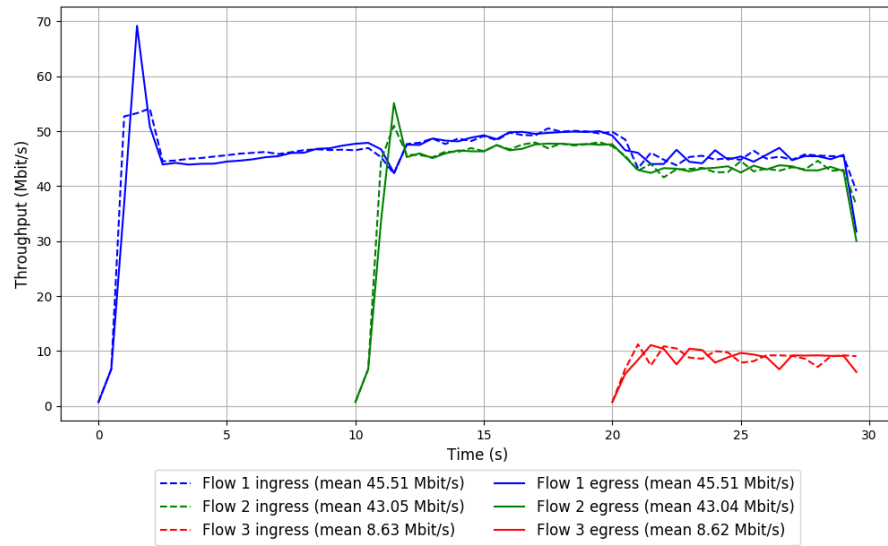
-- Flow 3:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 98.853 ms

Loss rate: 1.82%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-10 00:15:31

End at: 2018-01-10 00:16:01

Local clock offset: 2.021 ms

Remote clock offset: 2.504 ms

Below is generated by plot.py at 2018-01-10 06:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 110.075 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 44.16 Mbit/s

95th percentile per-packet one-way delay: 109.932 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 110.283 ms

Loss rate: 0.89%

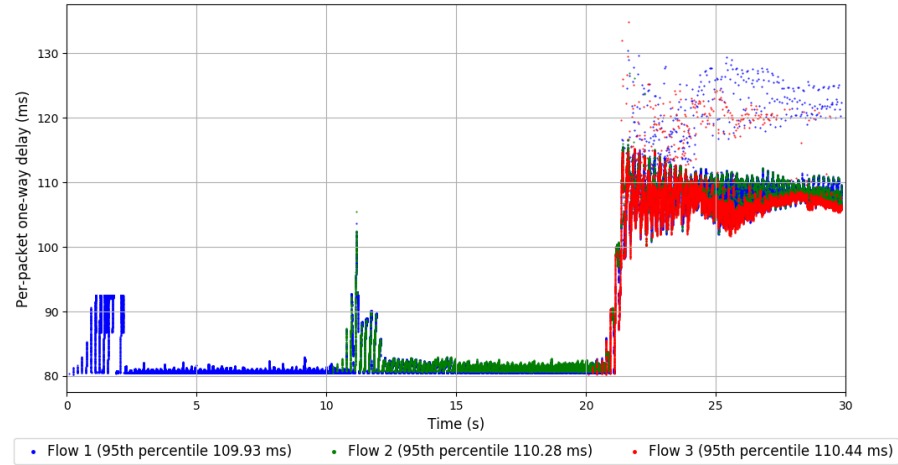
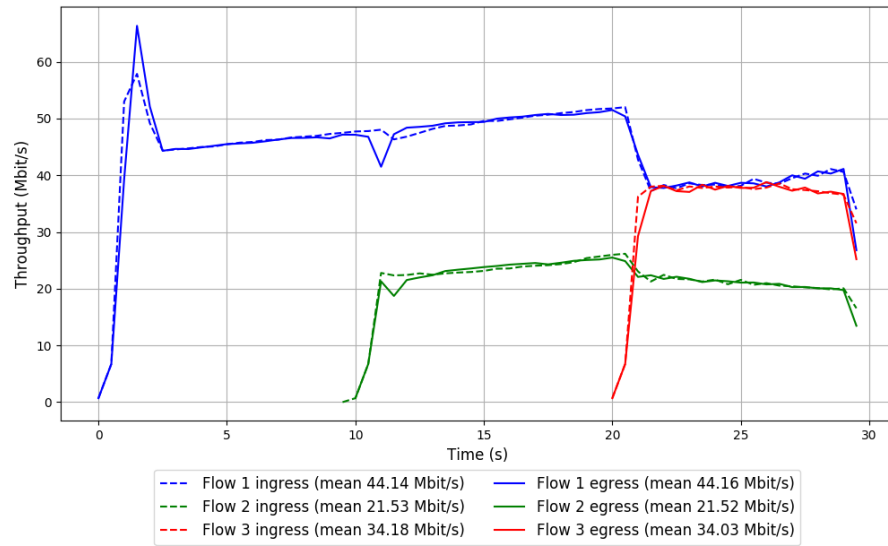
-- Flow 3:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 110.442 ms

Loss rate: 2.11%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-10 00:35:16

End at: 2018-01-10 00:35:46

Local clock offset: 2.463 ms

Remote clock offset: 1.852 ms

Below is generated by plot.py at 2018-01-10 06:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 105.752 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 104.314 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 106.417 ms

Loss rate: 0.79%

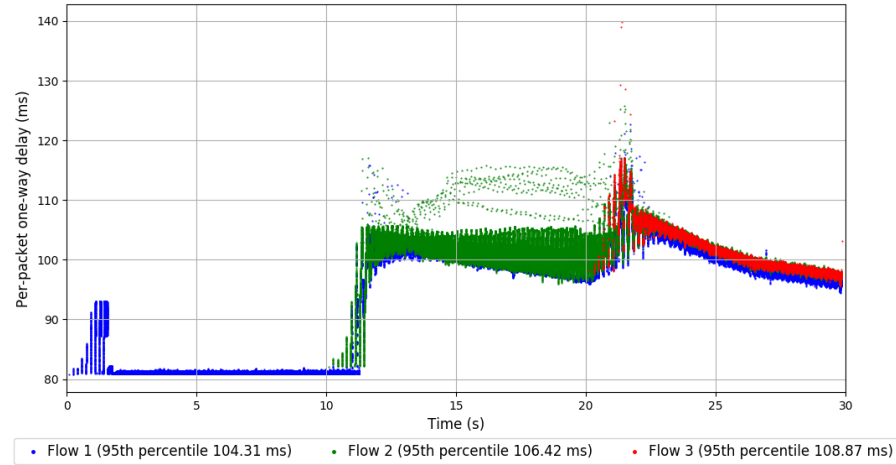
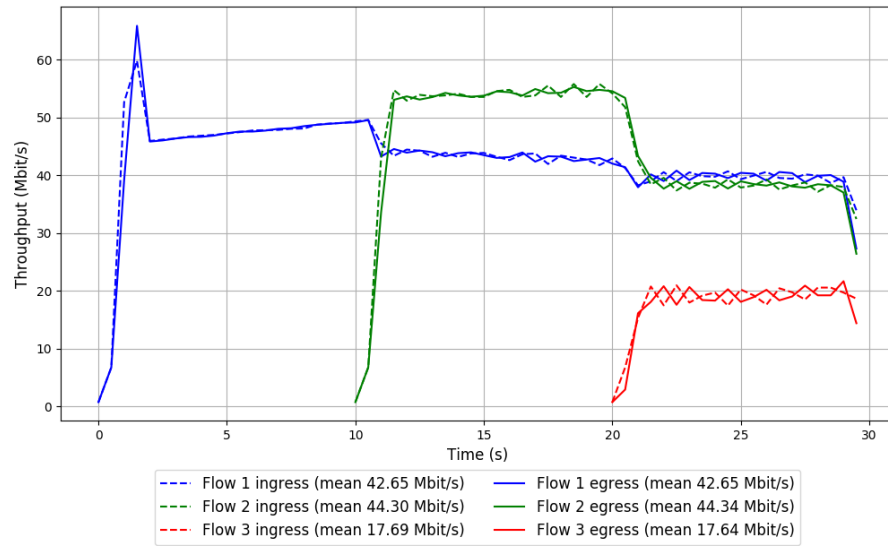
-- Flow 3:

Average throughput: 17.64 Mbit/s

95th percentile per-packet one-way delay: 108.870 ms

Loss rate: 2.17%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-10 00:54:56

End at: 2018-01-10 00:55:26

Local clock offset: 2.166 ms

Remote clock offset: 1.855 ms

Below is generated by plot.py at 2018-01-10 06:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.28 Mbit/s

95th percentile per-packet one-way delay: 100.653 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 99.085 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 102.095 ms

Loss rate: 0.86%

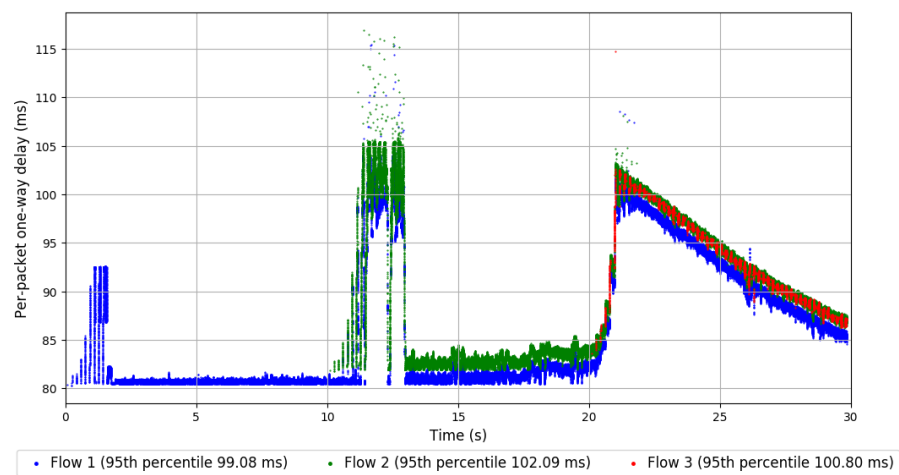
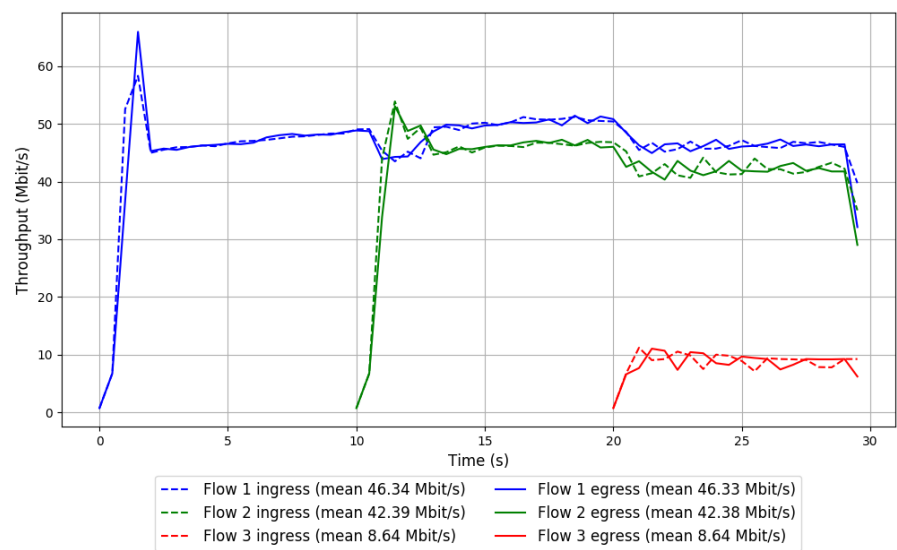
-- Flow 3:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 100.802 ms

Loss rate: 1.82%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-10 01:14:34

End at: 2018-01-10 01:15:04

Local clock offset: 2.183 ms

Remote clock offset: 1.953 ms

Below is generated by plot.py at 2018-01-10 06:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.65 Mbit/s

95th percentile per-packet one-way delay: 98.756 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 45.39 Mbit/s

95th percentile per-packet one-way delay: 98.242 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 42.96 Mbit/s

95th percentile per-packet one-way delay: 98.831 ms

Loss rate: 0.87%

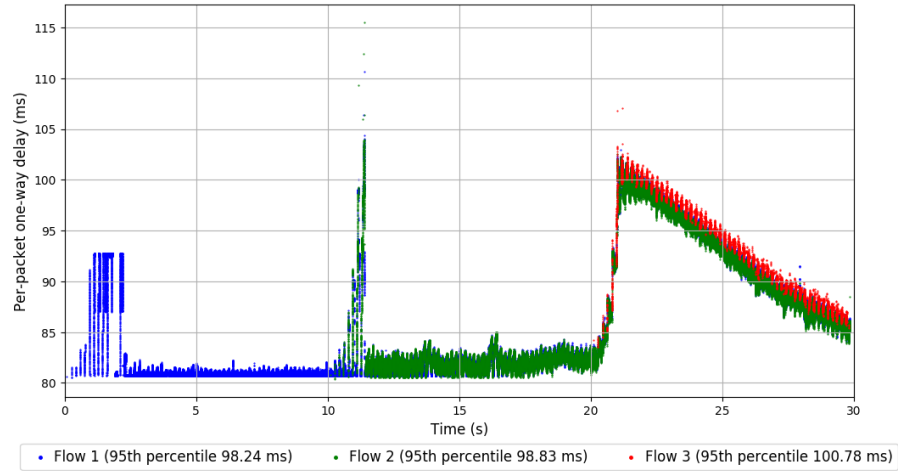
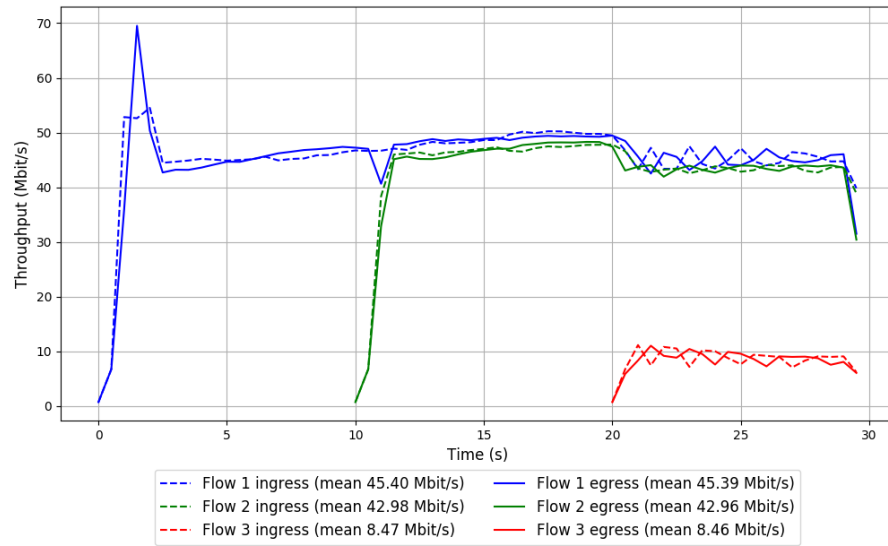
-- Flow 3:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 100.777 ms

Loss rate: 1.84%

Run 5: Report of TCP Vegas — Data Link

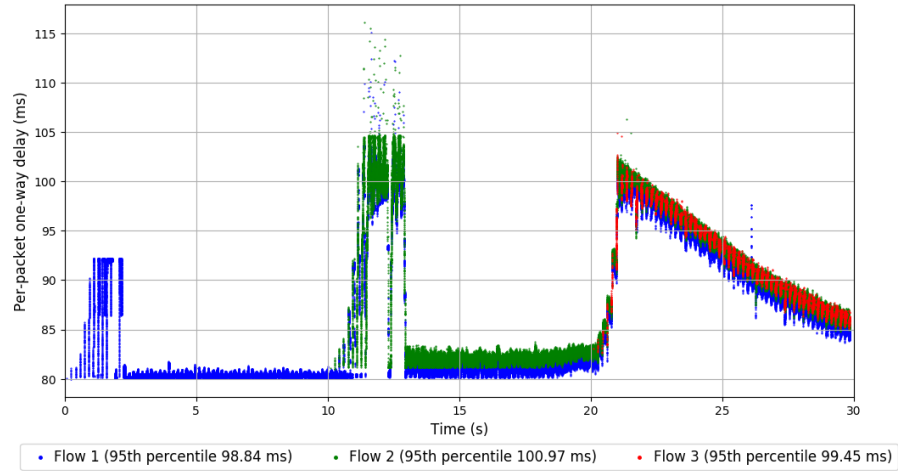
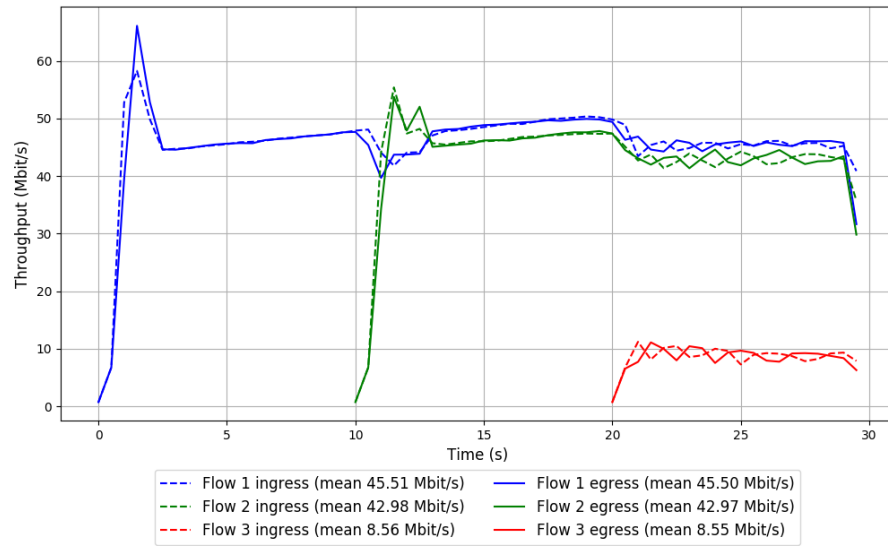


Run 6: Statistics of TCP Vegas

Start at: 2018-01-10 01:34:11
End at: 2018-01-10 01:34:41
Local clock offset: 2.564 ms
Remote clock offset: 2.531 ms

Below is generated by plot.py at 2018-01-10 06:30:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.82 Mbit/s
95th percentile per-packet one-way delay: 99.911 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 98.844 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 42.97 Mbit/s
95th percentile per-packet one-way delay: 100.974 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 99.446 ms
Loss rate: 1.85%

Run 6: Report of TCP Vegas — Data Link

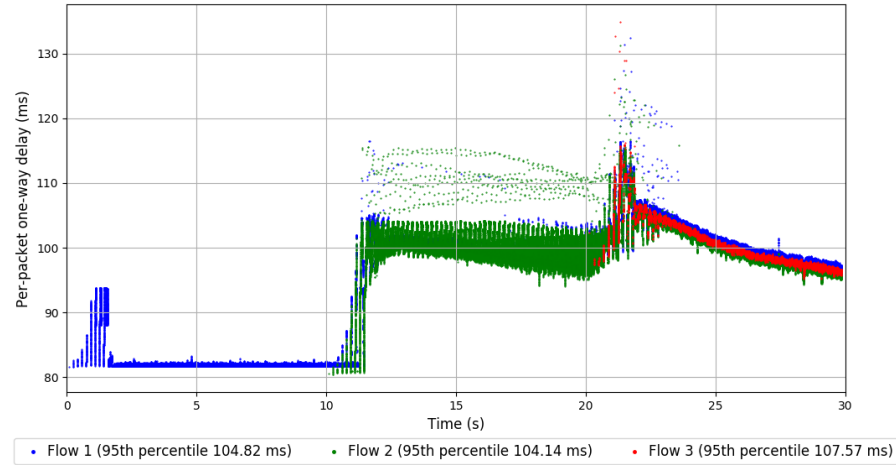
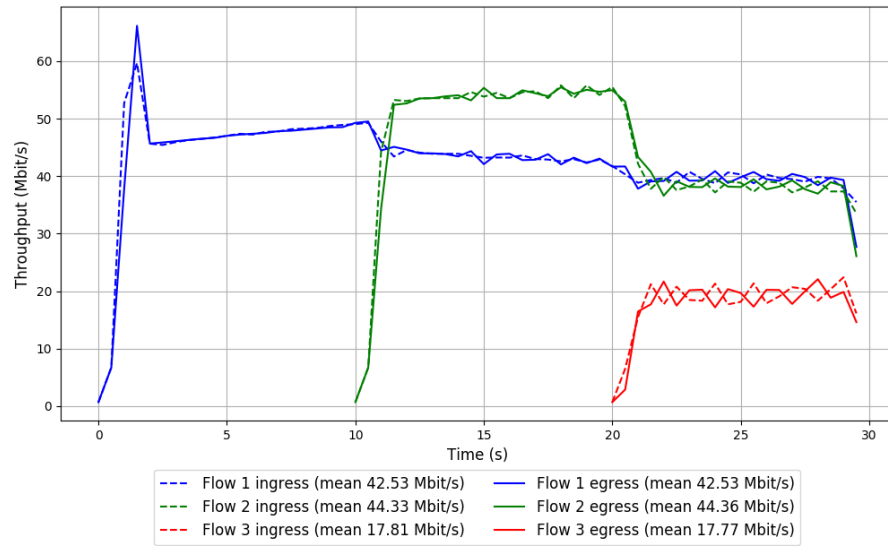


Run 7: Statistics of TCP Vegas

Start at: 2018-01-10 01:53:44
End at: 2018-01-10 01:54:14
Local clock offset: 2.265 ms
Remote clock offset: 1.746 ms

Below is generated by plot.py at 2018-01-10 06:30:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 104.893 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 42.53 Mbit/s
95th percentile per-packet one-way delay: 104.817 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 104.138 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 17.77 Mbit/s
95th percentile per-packet one-way delay: 107.567 ms
Loss rate: 2.14%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-10 02:13:18

End at: 2018-01-10 02:13:48

Local clock offset: 2.17 ms

Remote clock offset: 1.529 ms

Below is generated by plot.py at 2018-01-10 06:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.59 Mbit/s

95th percentile per-packet one-way delay: 116.319 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 115.809 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 42.52 Mbit/s

95th percentile per-packet one-way delay: 116.429 ms

Loss rate: 0.83%

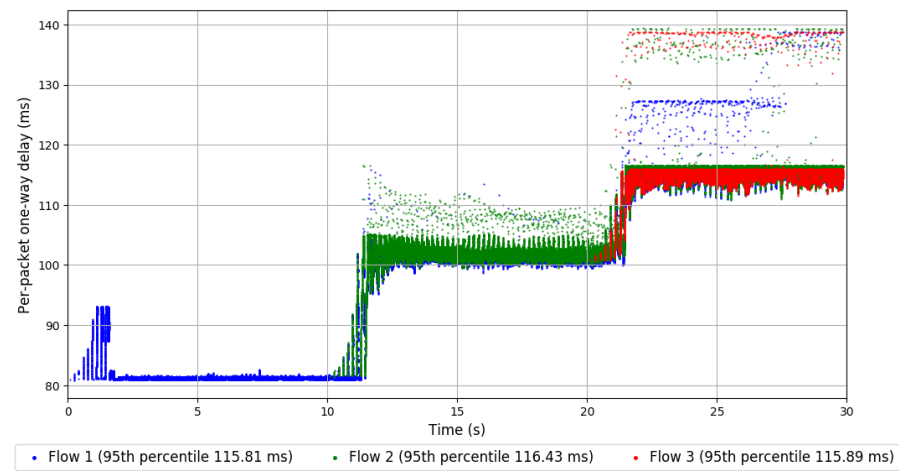
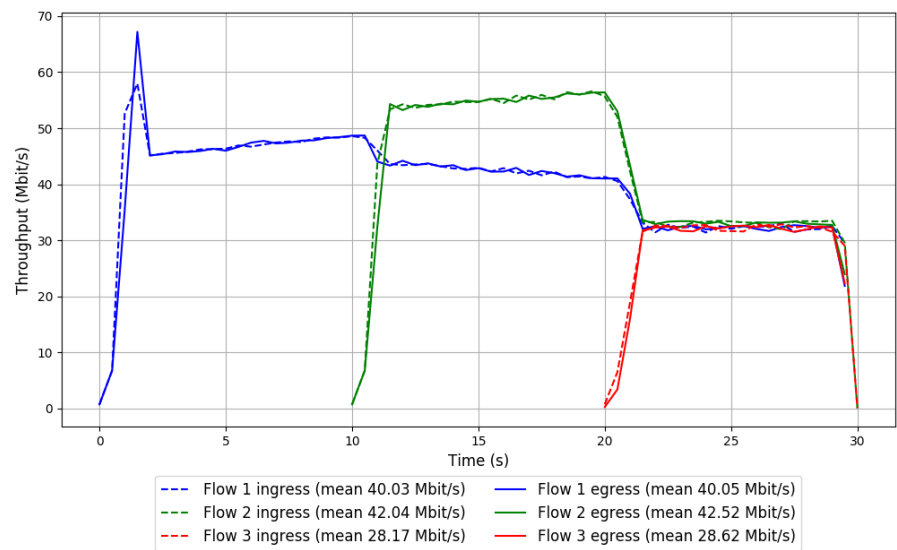
-- Flow 3:

Average throughput: 28.62 Mbit/s

95th percentile per-packet one-way delay: 115.892 ms

Loss rate: 2.51%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-10 02:32:56

End at: 2018-01-10 02:33:26

Local clock offset: 2.177 ms

Remote clock offset: 0.956 ms

Below is generated by plot.py at 2018-01-10 06:30:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 100.636 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 100.086 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 42.88 Mbit/s

95th percentile per-packet one-way delay: 100.951 ms

Loss rate: 0.88%

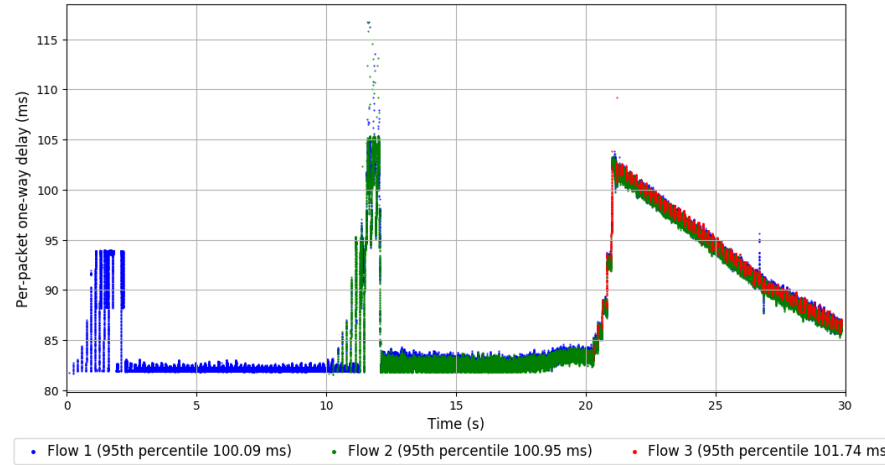
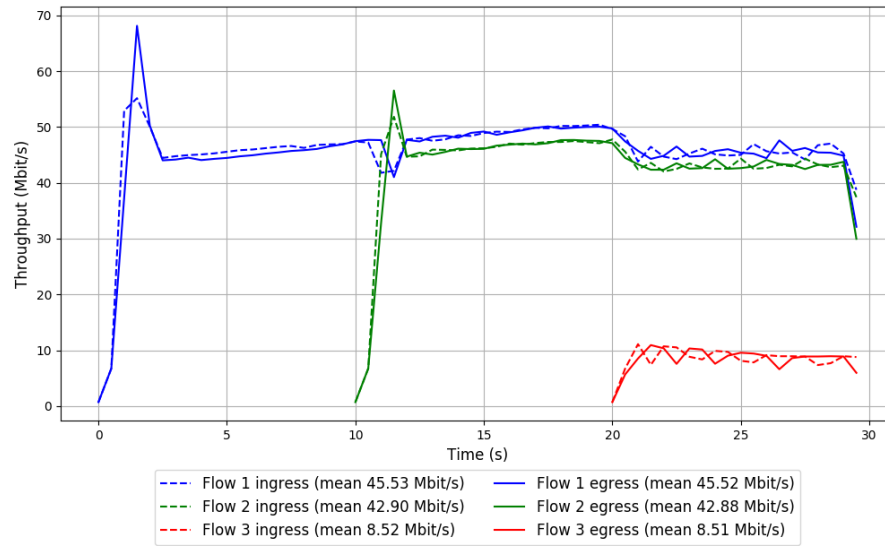
-- Flow 3:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 101.741 ms

Loss rate: 1.77%

Run 9: Report of TCP Vegas — Data Link

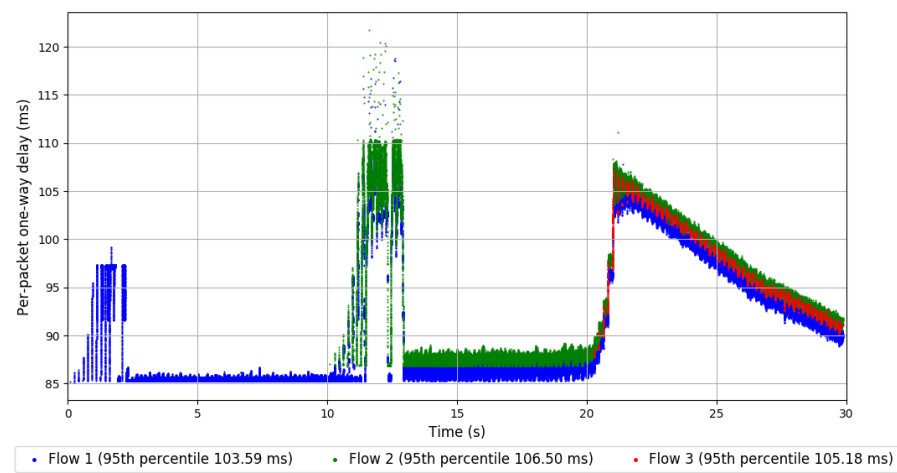
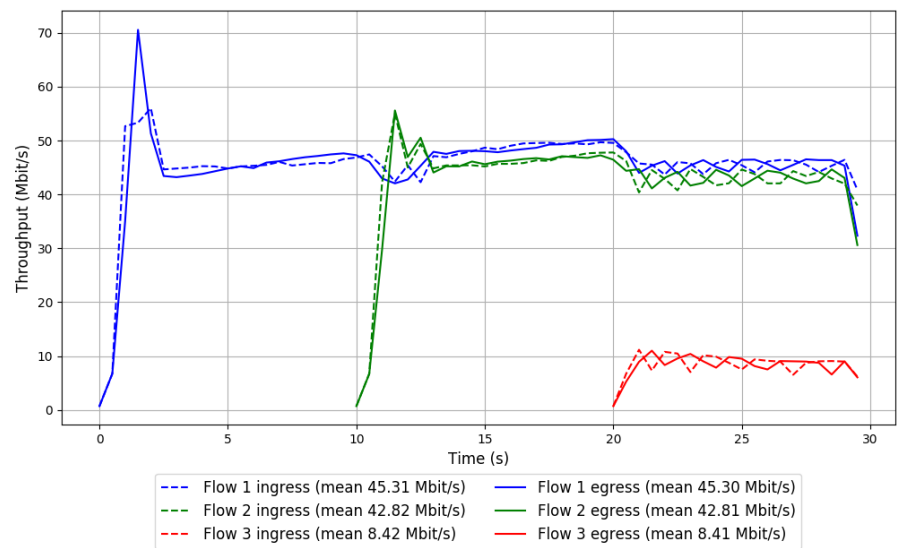


Run 10: Statistics of TCP Vegas

Start at: 2018-01-10 02:52:31
End at: 2018-01-10 02:53:01
Local clock offset: 1.629 ms
Remote clock offset: -3.898 ms

Below is generated by plot.py at 2018-01-10 06:30:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.44 Mbit/s
95th percentile per-packet one-way delay: 105.158 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 45.30 Mbit/s
95th percentile per-packet one-way delay: 103.594 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 106.501 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 105.183 ms
Loss rate: 1.82%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-09 23:51:59

End at: 2018-01-09 23:52:29

Local clock offset: 1.335 ms

Remote clock offset: 1.54 ms

Below is generated by plot.py at 2018-01-10 06:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 114.259 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 33.71 Mbit/s

95th percentile per-packet one-way delay: 111.713 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 113.322 ms

Loss rate: 0.82%

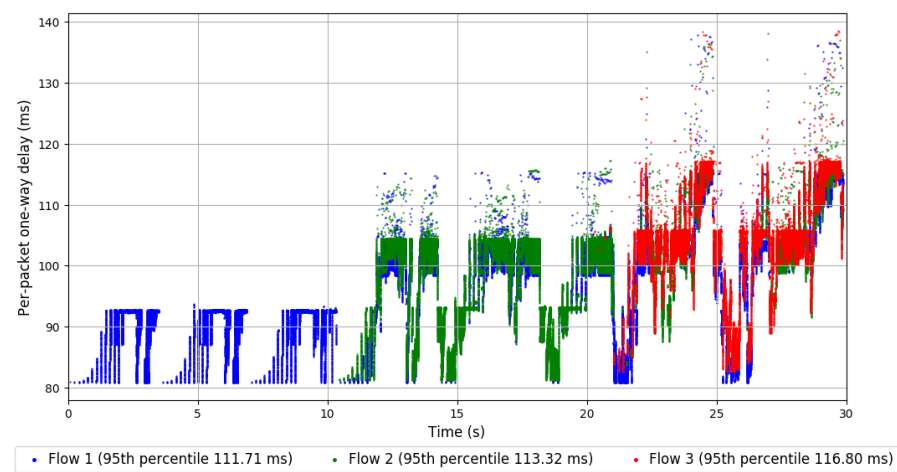
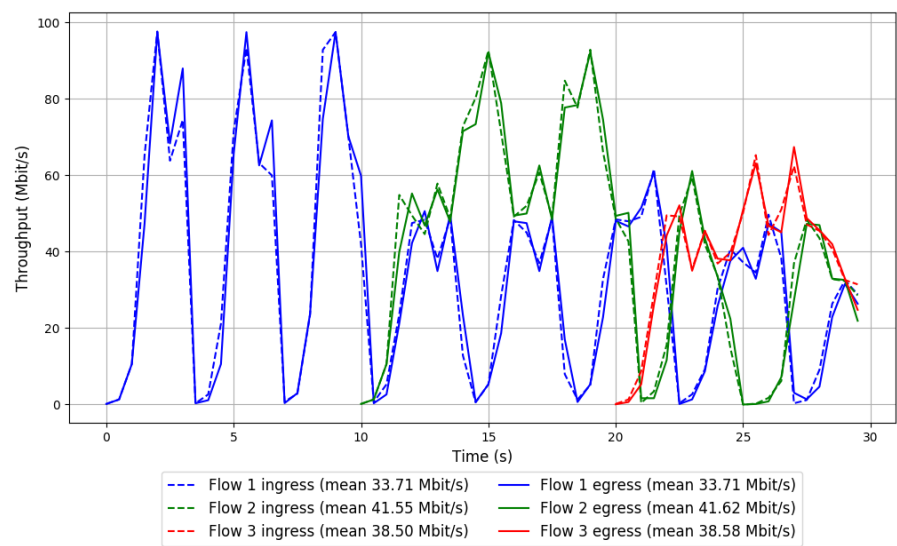
-- Flow 3:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 116.798 ms

Loss rate: 1.79%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-10 00:11:38

End at: 2018-01-10 00:12:08

Local clock offset: 1.908 ms

Remote clock offset: 2.11 ms

Below is generated by plot.py at 2018-01-10 06:31:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 114.479 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 34.77 Mbit/s

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

Loss rate: 0.33%

-- Flow 2:

Average throughput: 36.60 Mbit/s

95th percentile per-packet one-way delay: 114.067 ms

Loss rate: 0.08%

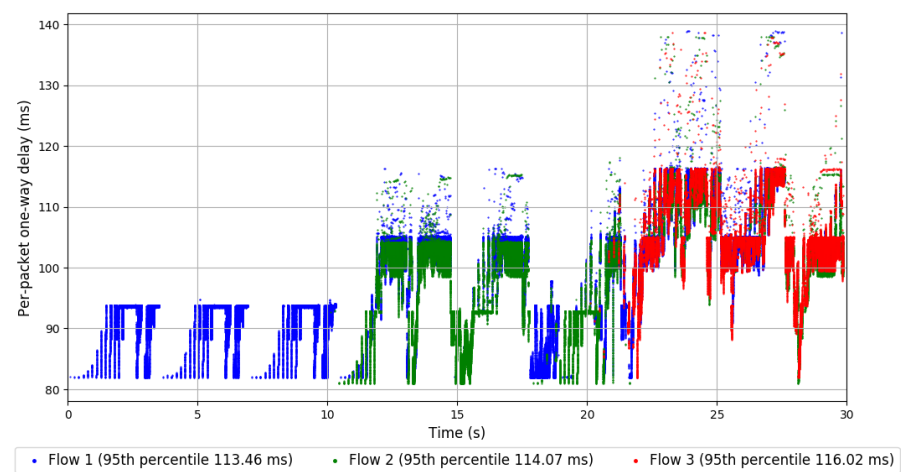
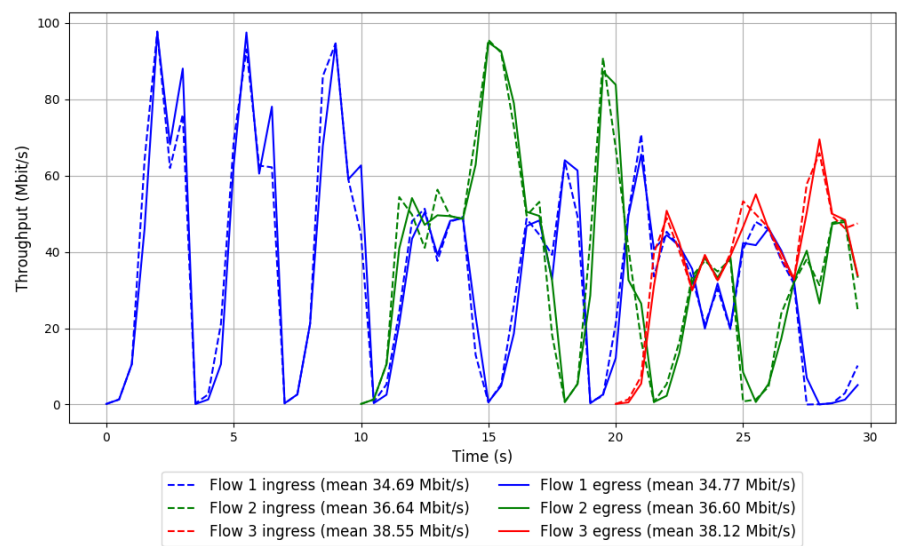
-- Flow 3:

Average throughput: 38.12 Mbit/s

95th percentile per-packet one-way delay: 116.018 ms

Loss rate: 2.93%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-10 00:31:22

End at: 2018-01-10 00:31:52

Local clock offset: 2.437 ms

Remote clock offset: 2.233 ms

Below is generated by plot.py at 2018-01-10 06:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 113.690 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 111.652 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 112.854 ms

Loss rate: 0.87%

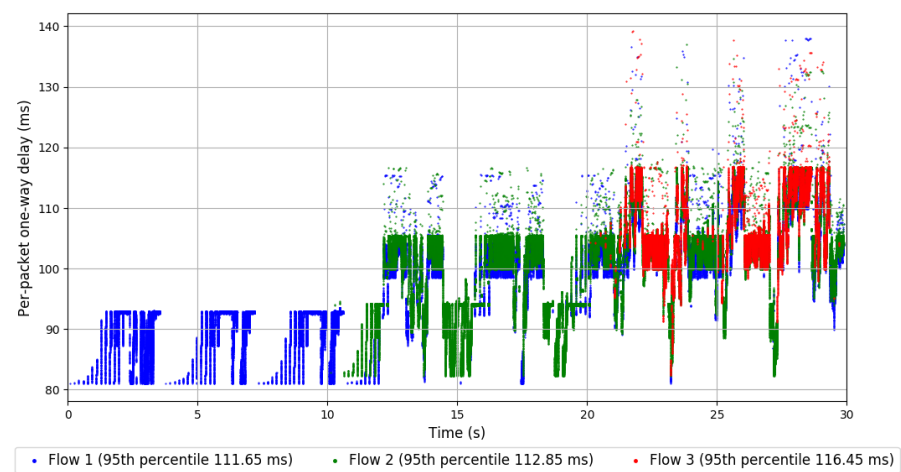
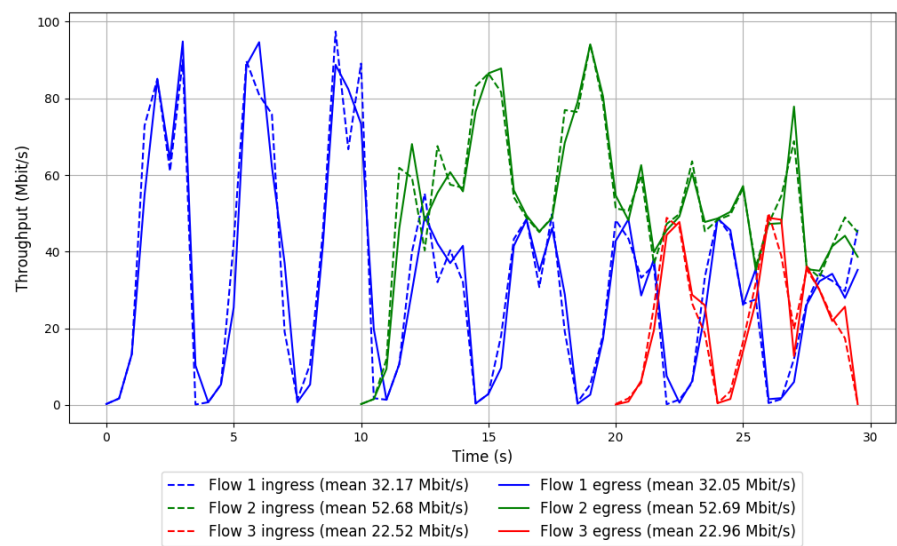
-- Flow 3:

Average throughput: 22.96 Mbit/s

95th percentile per-packet one-way delay: 116.452 ms

Loss rate: 0.05%

Run 3: Report of Verus — Data Link

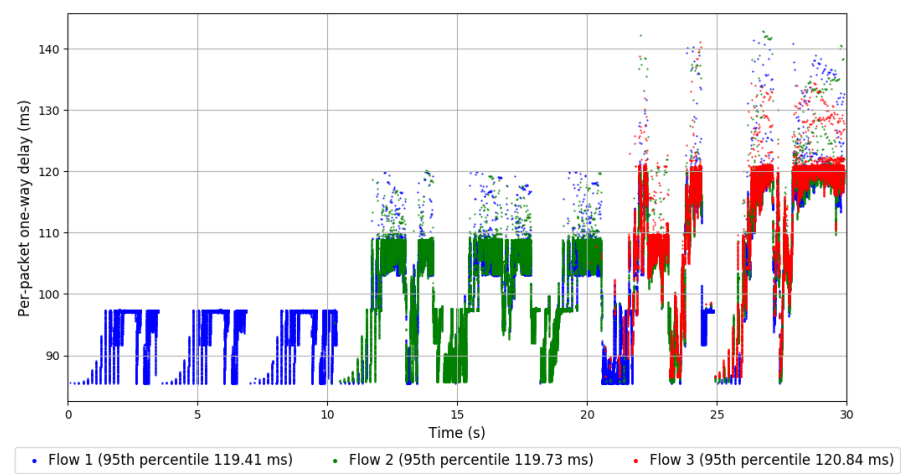
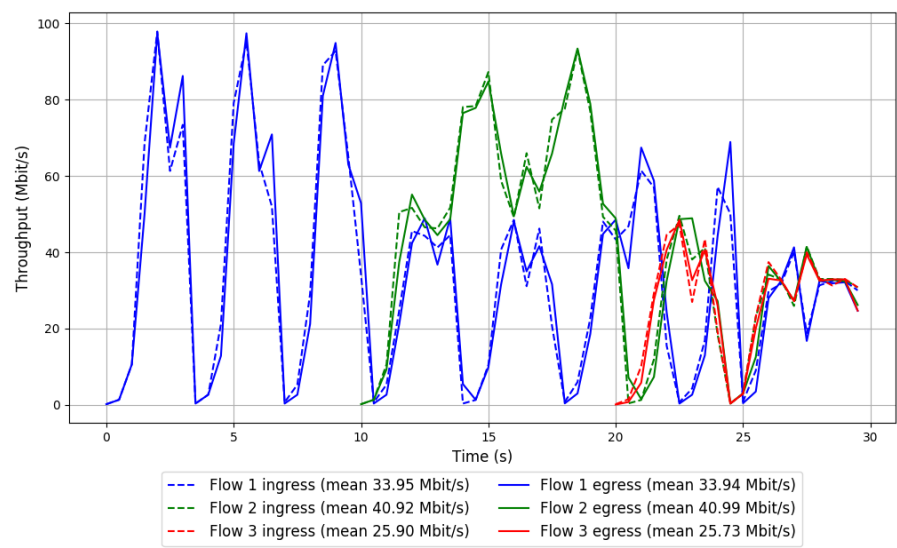


Run 4: Statistics of Verus

Start at: 2018-01-10 00:51:03
End at: 2018-01-10 00:51:33
Local clock offset: 2.257 ms
Remote clock offset: -2.892 ms

Below is generated by plot.py at 2018-01-10 06:32:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.54 Mbit/s
95th percentile per-packet one-way delay: 119.856 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 33.94 Mbit/s
95th percentile per-packet one-way delay: 119.413 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 119.735 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 25.73 Mbit/s
95th percentile per-packet one-way delay: 120.843 ms
Loss rate: 2.57%

Run 4: Report of Verus — Data Link

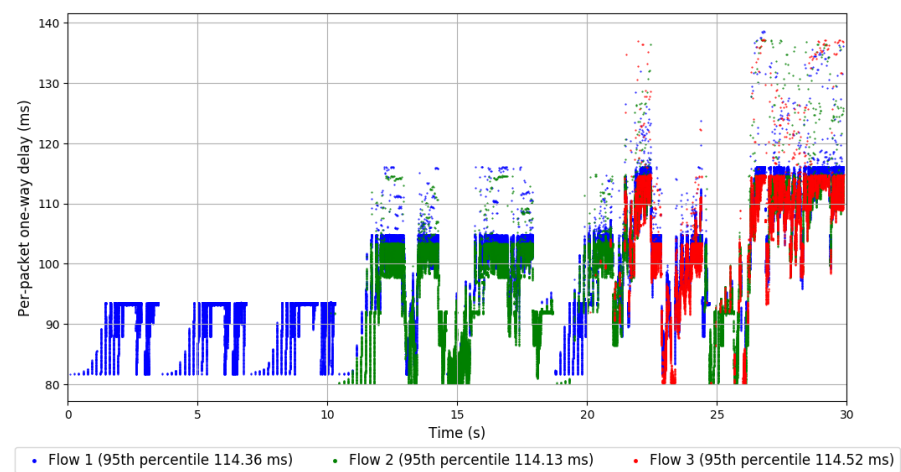
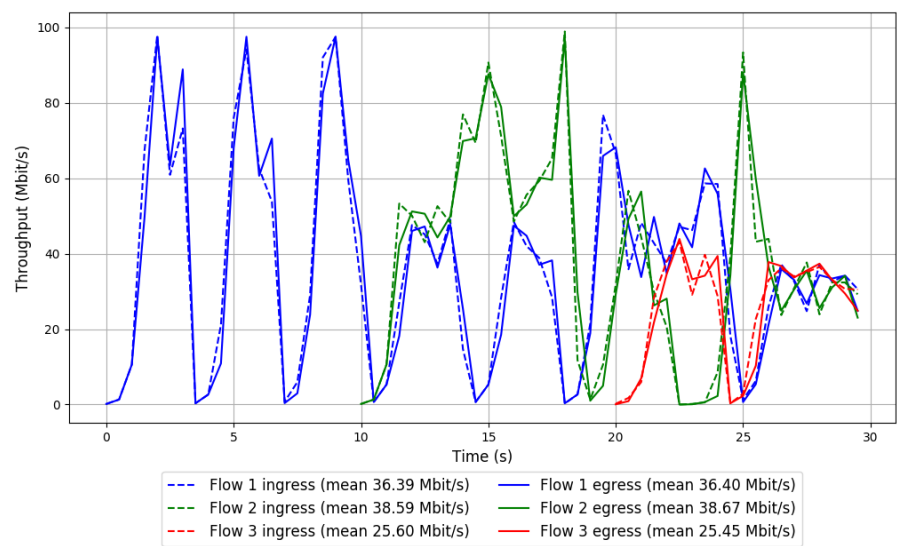


Run 5: Statistics of Verus

Start at: 2018-01-10 01:10:40
End at: 2018-01-10 01:11:10
Local clock offset: 2.088 ms
Remote clock offset: 2.248 ms

```
# Below is generated by plot.py at 2018-01-10 06:32:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 114.412 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 114.365 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 114.133 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 114.524 ms
Loss rate: 2.65%
```


Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-10 01:30:17

End at: 2018-01-10 01:30:47

Local clock offset: 2.449 ms

Remote clock offset: 2.108 ms

Below is generated by plot.py at 2018-01-10 06:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.98 Mbit/s

95th percentile per-packet one-way delay: 114.749 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 114.737 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 44.57 Mbit/s

95th percentile per-packet one-way delay: 114.102 ms

Loss rate: 0.73%

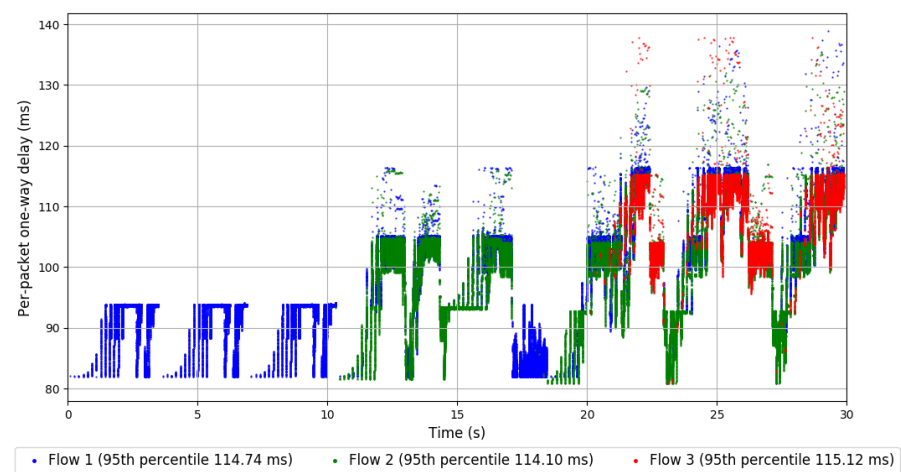
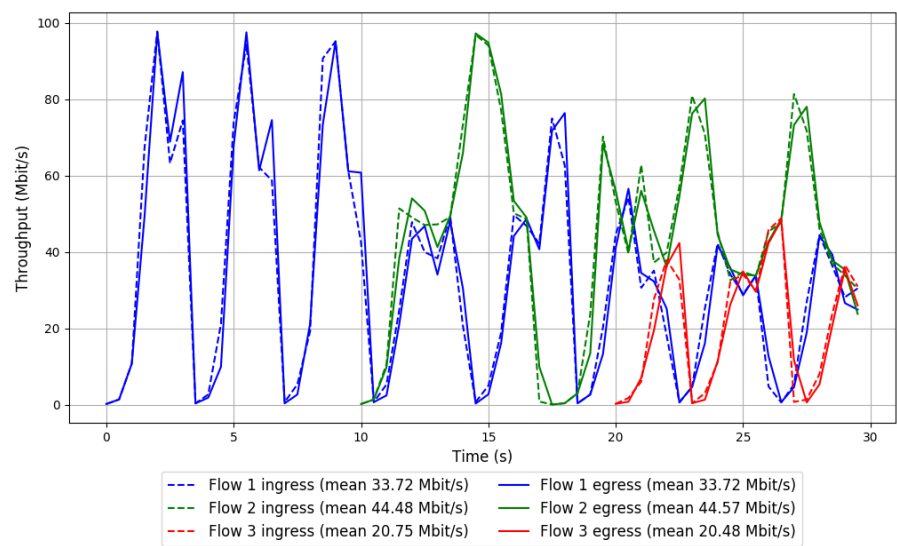
-- Flow 3:

Average throughput: 20.48 Mbit/s

95th percentile per-packet one-way delay: 115.125 ms

Loss rate: 3.04%

Run 6: Report of Verus — Data Link

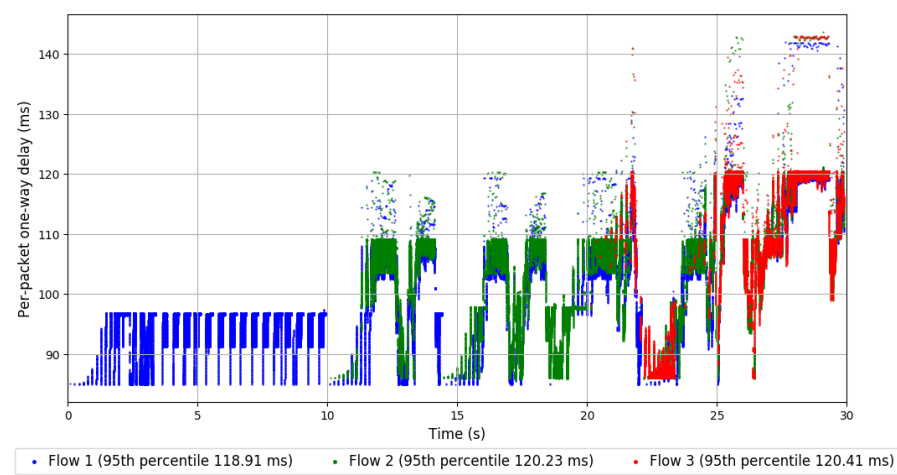
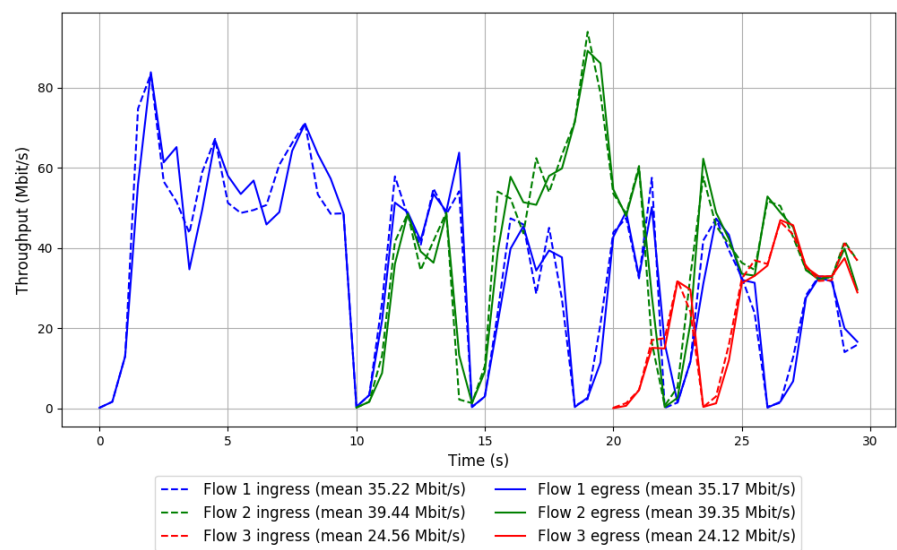


Run 7: Statistics of Verus

Start at: 2018-01-10 01:49:51
End at: 2018-01-10 01:50:21
Local clock offset: 2.311 ms
Remote clock offset: -2.602 ms

Below is generated by plot.py at 2018-01-10 06:32:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.19 Mbit/s
95th percentile per-packet one-way delay: 120.052 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 118.905 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 120.229 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 120.413 ms
Loss rate: 3.73%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

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

End at: 2018-01-10 02:09:56

Local clock offset: 2.148 ms

Remote clock offset: 1.481 ms

Below is generated by plot.py at 2018-01-10 06:32:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 114.664 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 113.248 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 44.61 Mbit/s

95th percentile per-packet one-way delay: 115.115 ms

Loss rate: 0.73%

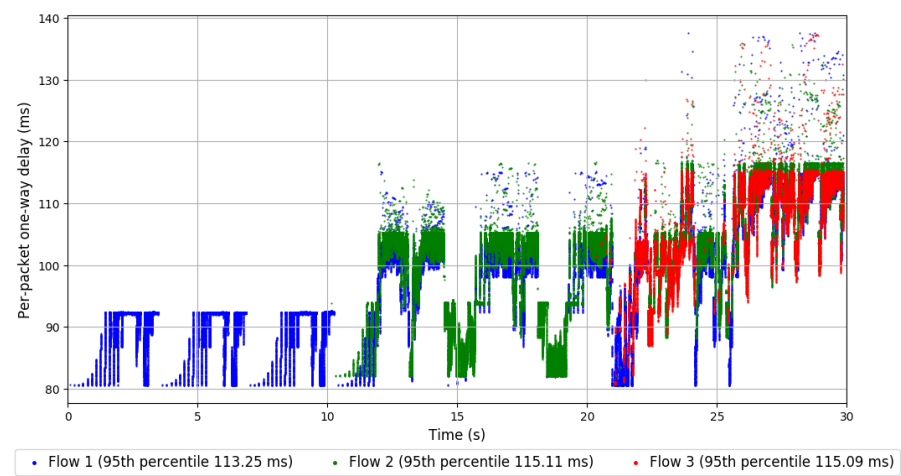
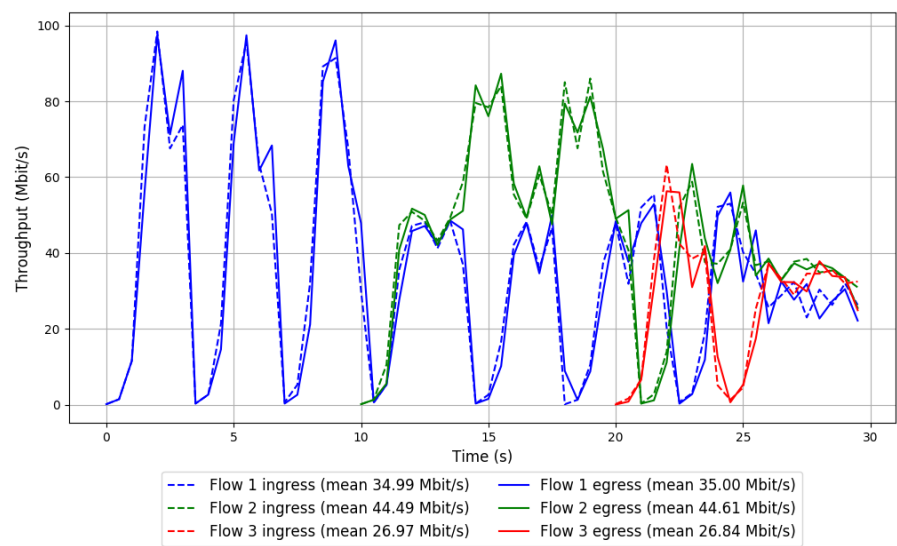
-- Flow 3:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 2.65%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-10 02:29:03

End at: 2018-01-10 02:29:33

Local clock offset: 2.225 ms

Remote clock offset: 1.049 ms

Below is generated by plot.py at 2018-01-10 06:33:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.38 Mbit/s

95th percentile per-packet one-way delay: 108.915 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 33.94 Mbit/s

95th percentile per-packet one-way delay: 105.711 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 107.904 ms

Loss rate: 0.73%

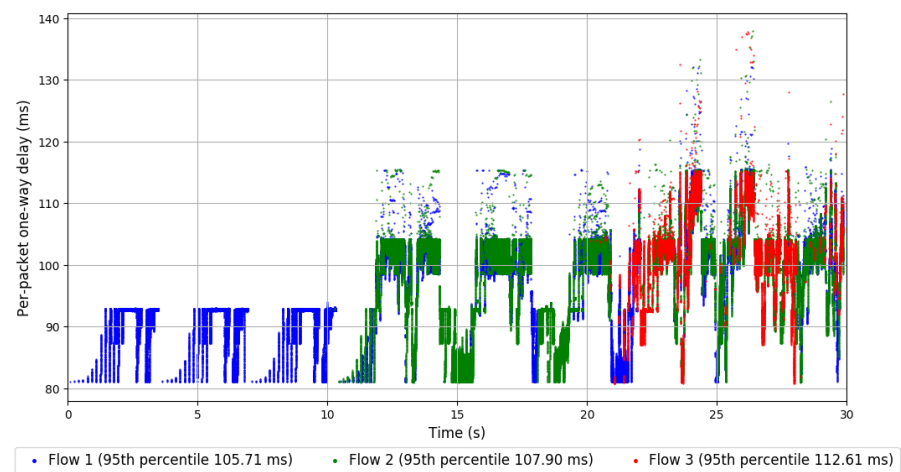
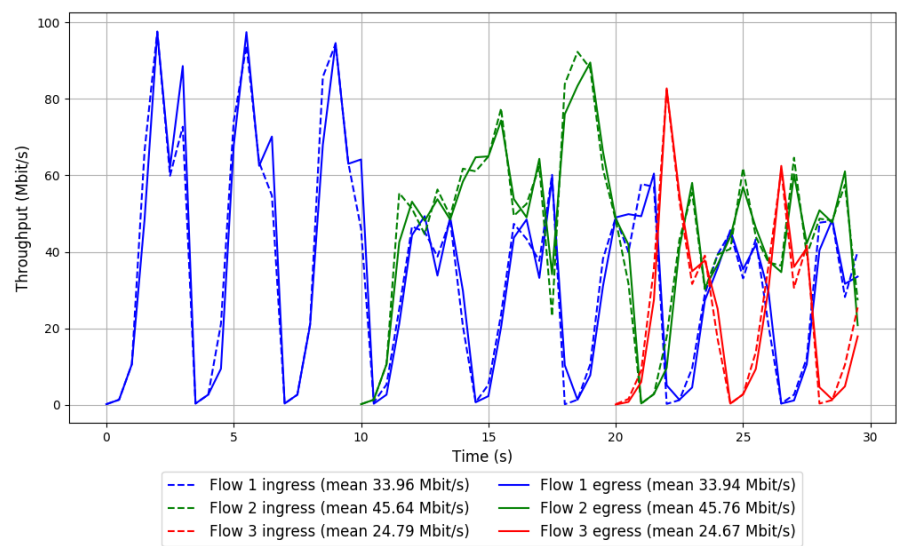
-- Flow 3:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 112.610 ms

Loss rate: 2.67%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-10 02:48:38

End at: 2018-01-10 02:49:08

Local clock offset: 1.862 ms

Remote clock offset: 0.929 ms

Below is generated by plot.py at 2018-01-10 06:33:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.05 Mbit/s

95th percentile per-packet one-way delay: 107.592 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 35.94 Mbit/s

95th percentile per-packet one-way delay: 105.253 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 107.844 ms

Loss rate: 0.93%

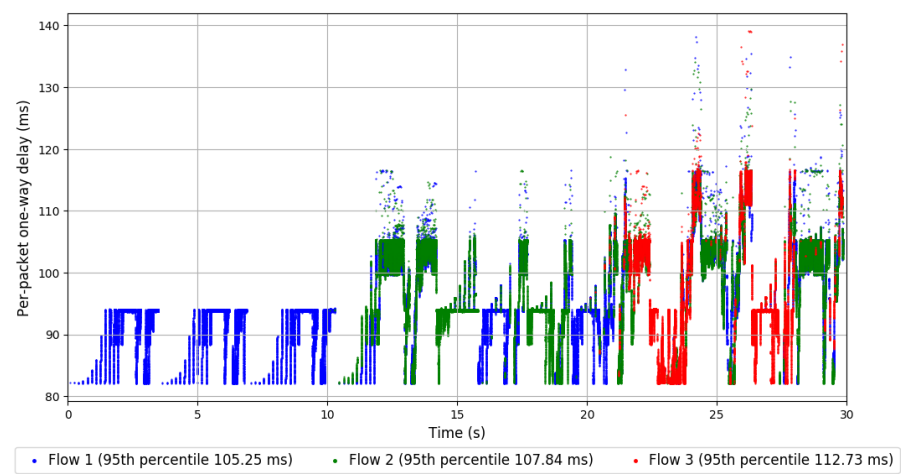
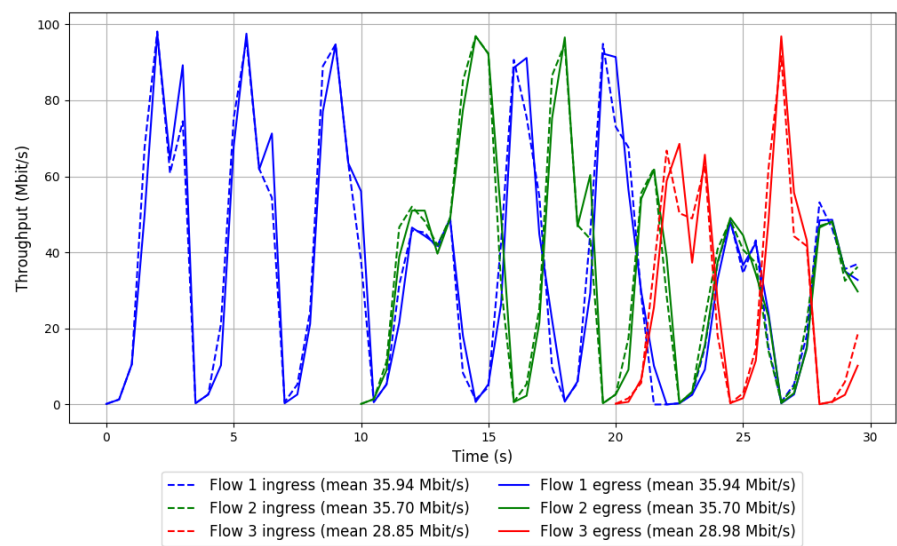
-- Flow 3:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 112.729 ms

Loss rate: 2.03%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-09 23:39:53

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

Local clock offset: 1.11 ms

Remote clock offset: 2.706 ms

Below is generated by plot.py at 2018-01-10 06:36:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 89.920 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 87.480 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 14.76 Mbit/s

95th percentile per-packet one-way delay: 95.782 ms

Loss rate: 1.08%

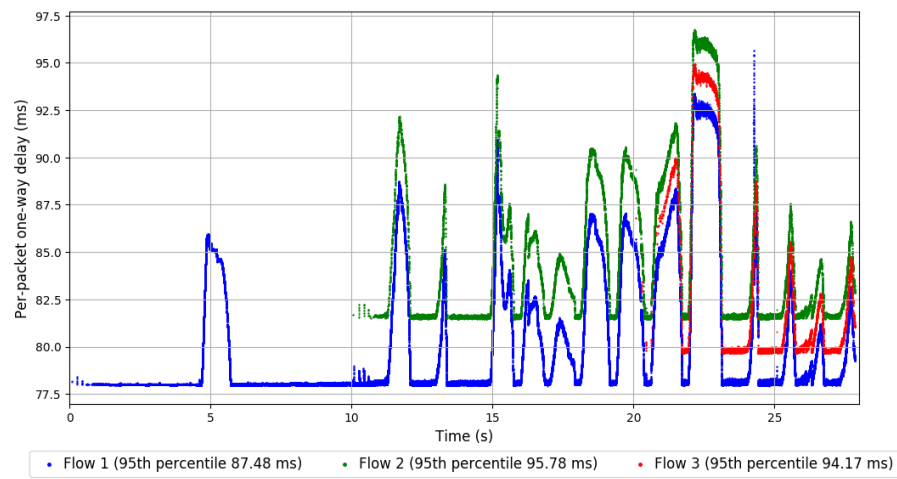
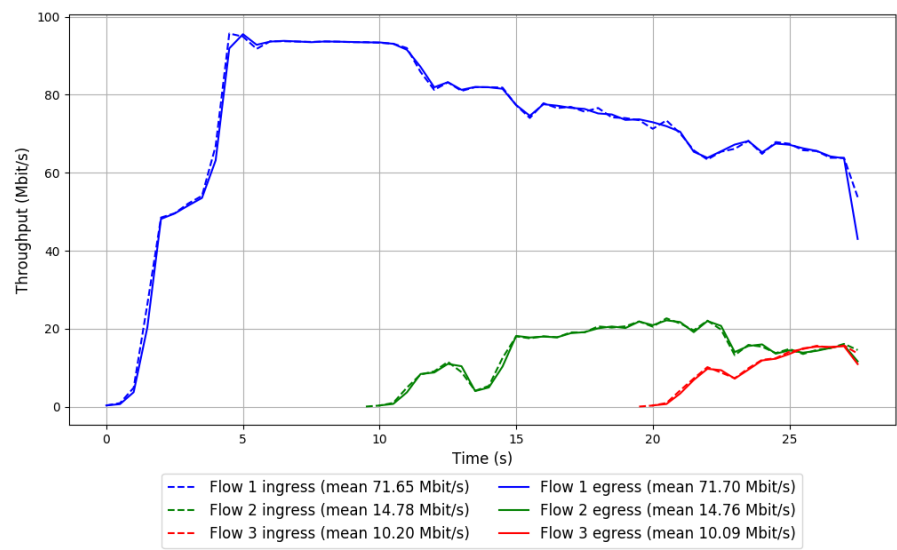
-- Flow 3:

Average throughput: 10.09 Mbit/s

95th percentile per-packet one-way delay: 94.170 ms

Loss rate: 3.28%

Run 1: Report of Copa — Data Link

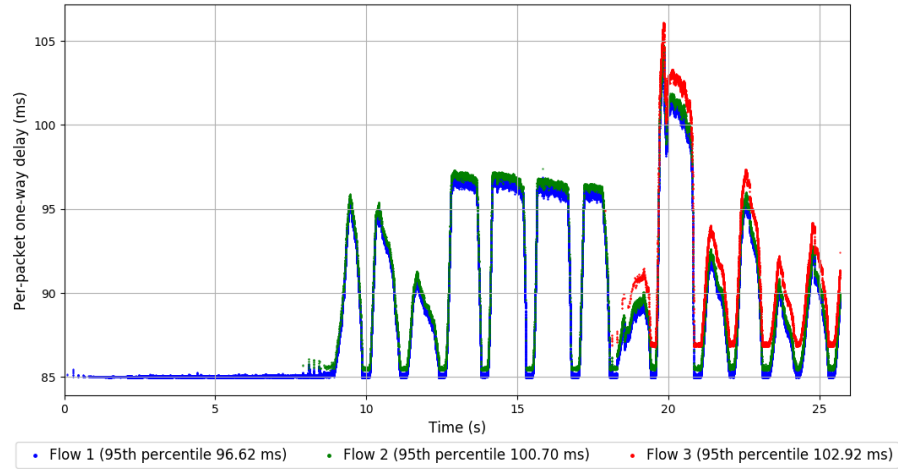
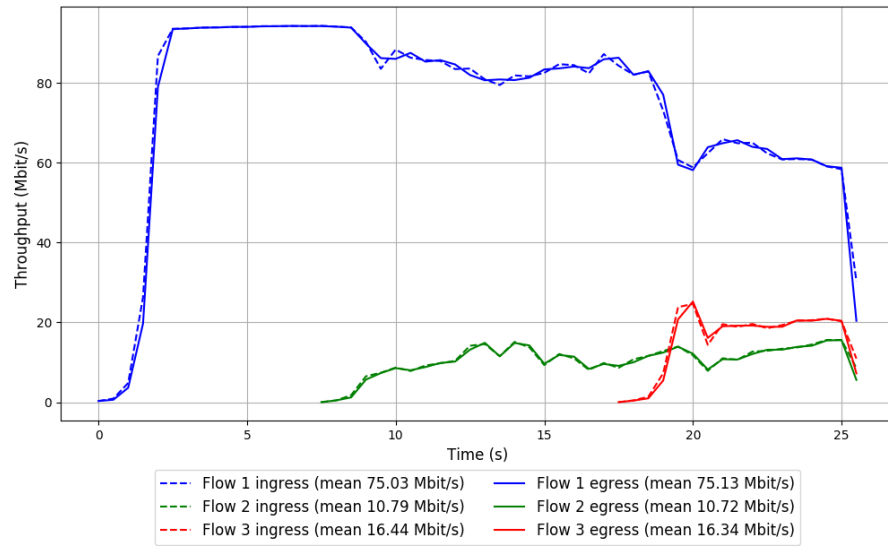


Run 2: Statistics of Copa

Start at: 2018-01-09 23:59:47
End at: 2018-01-10 00:00:17
Local clock offset: 1.557 ms
Remote clock offset: -2.434 ms

Below is generated by plot.py at 2018-01-10 06:36:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 97.035 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 75.13 Mbit/s
95th percentile per-packet one-way delay: 96.625 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 100.703 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 16.34 Mbit/s
95th percentile per-packet one-way delay: 102.919 ms
Loss rate: 2.83%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-10 00:19:25

End at: 2018-01-10 00:19:55

Local clock offset: 2.075 ms

Remote clock offset: 1.904 ms

Below is generated by plot.py at 2018-01-10 06:36:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 92.351 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 68.63 Mbit/s

95th percentile per-packet one-way delay: 91.878 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 93.634 ms

Loss rate: 1.15%

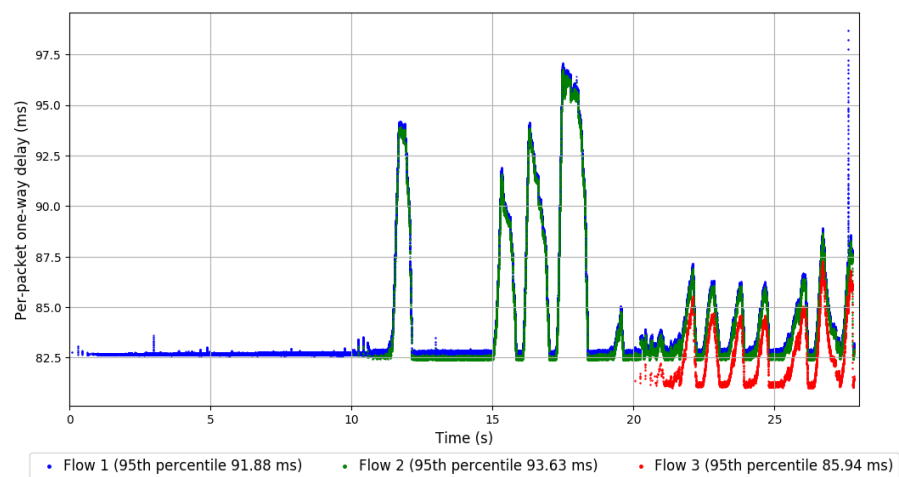
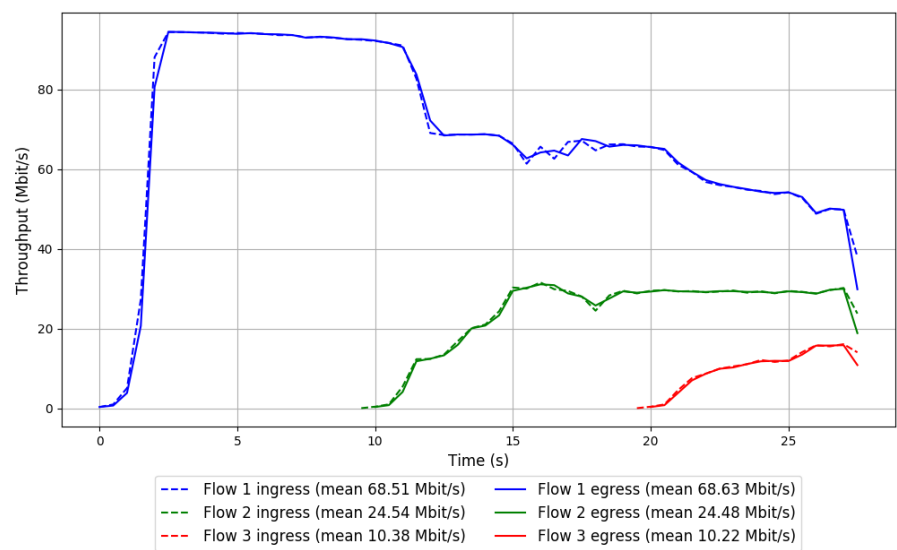
-- Flow 3:

Average throughput: 10.22 Mbit/s

95th percentile per-packet one-way delay: 85.937 ms

Loss rate: 3.62%

Run 3: Report of Copa — Data Link

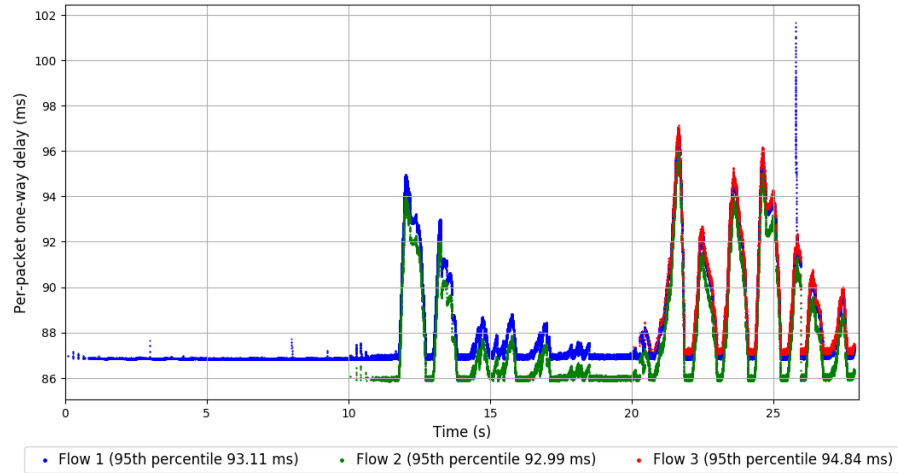
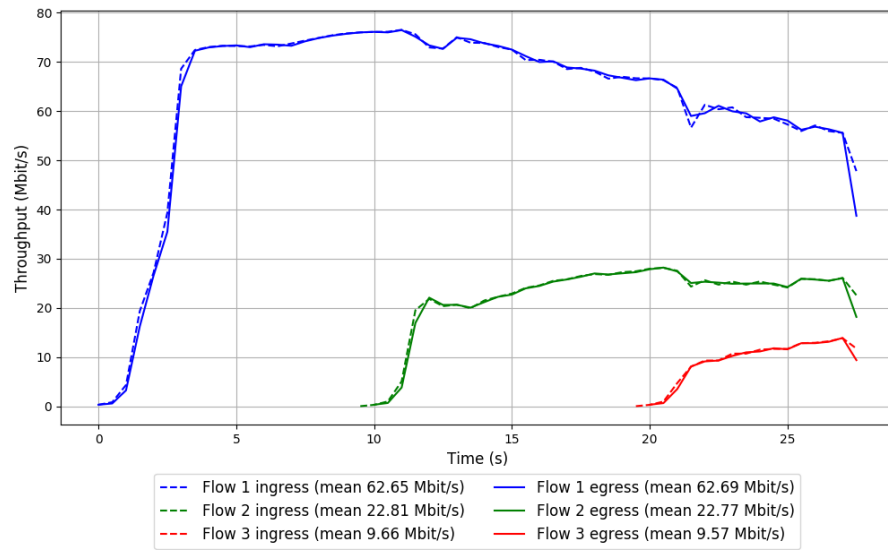


Run 4: Statistics of Copa

Start at: 2018-01-10 00:39:11
End at: 2018-01-10 00:39:41
Local clock offset: 2.532 ms
Remote clock offset: -2.807 ms

Below is generated by plot.py at 2018-01-10 06:36:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.96 Mbit/s
95th percentile per-packet one-way delay: 93.256 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 93.108 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 22.77 Mbit/s
95th percentile per-packet one-way delay: 92.986 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 94.839 ms
Loss rate: 3.06%

Run 4: Report of Copa — Data Link

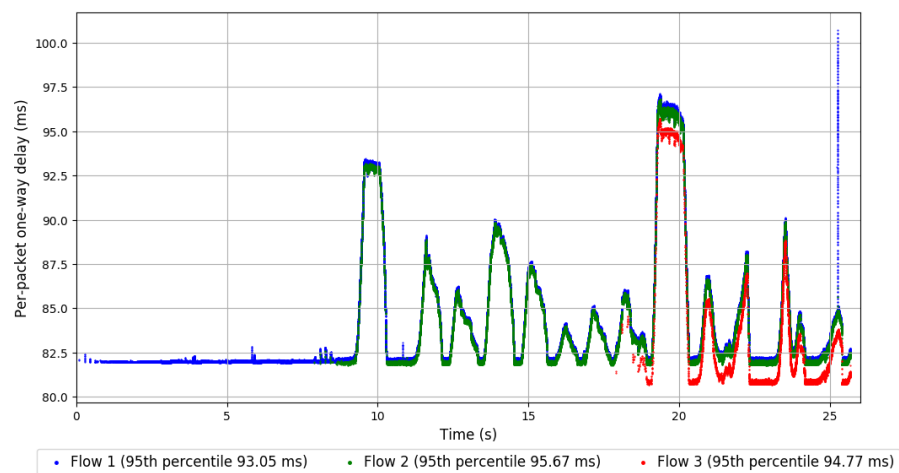
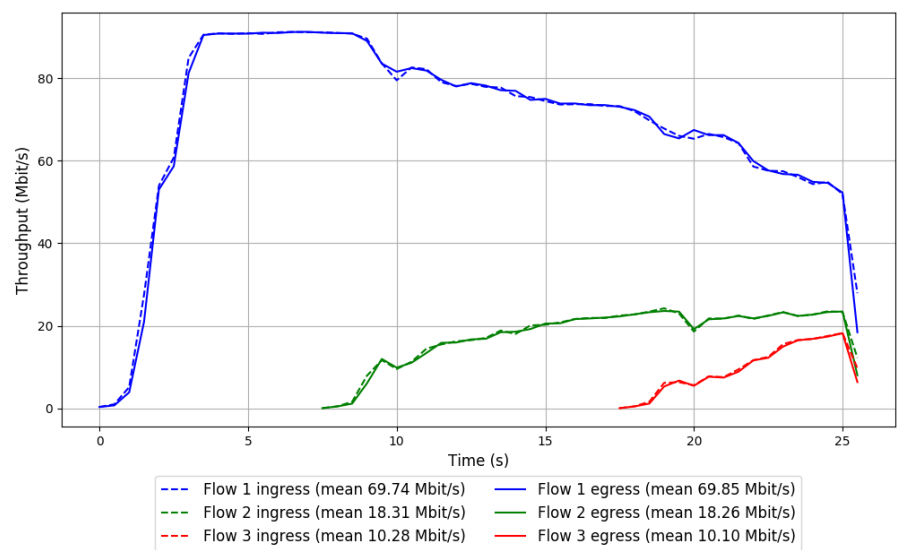


Run 5: Statistics of Copa

Start at: 2018-01-10 00:58:50
End at: 2018-01-10 00:59:20
Local clock offset: 2.172 ms
Remote clock offset: 1.931 ms

Below is generated by plot.py at 2018-01-10 06:36:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 93.101 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 69.85 Mbit/s
95th percentile per-packet one-way delay: 93.053 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 18.26 Mbit/s
95th percentile per-packet one-way delay: 95.671 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 94.772 ms
Loss rate: 3.86%

Run 5: Report of Copa — Data Link

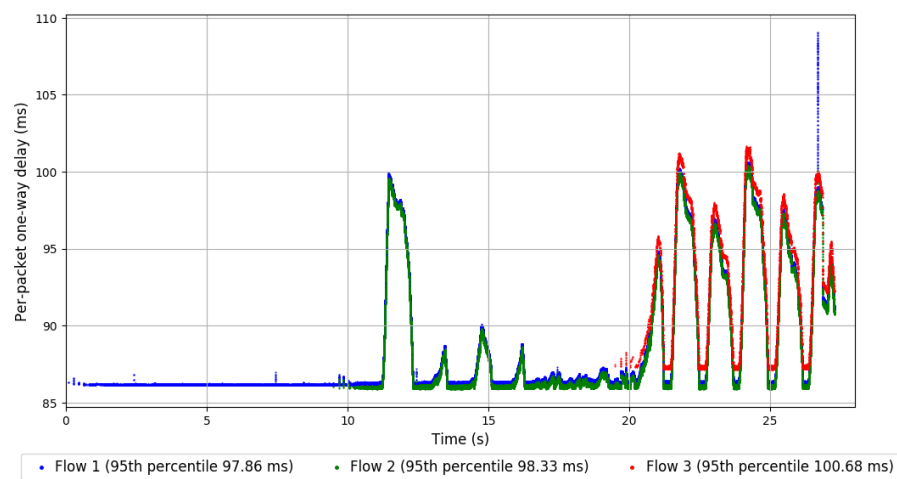
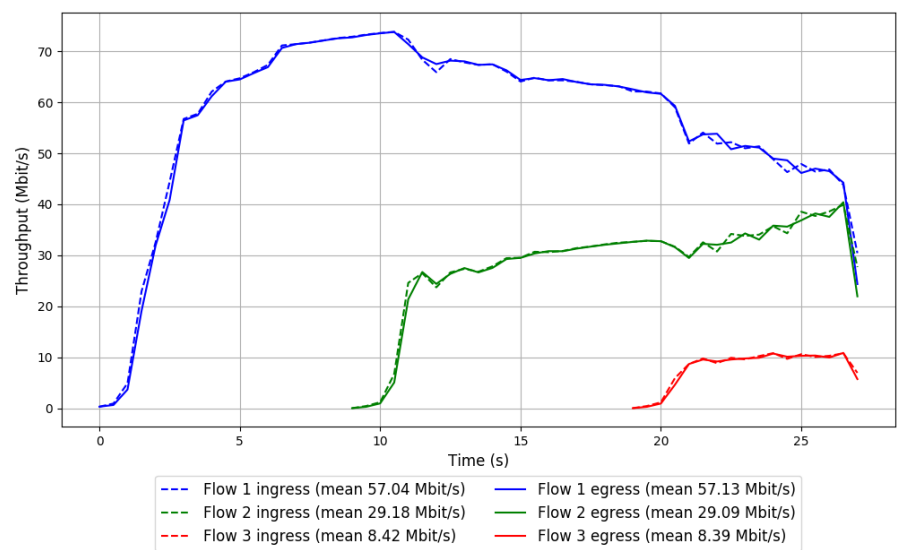


Run 6: Statistics of Copa

Start at: 2018-01-10 01:18:28
End at: 2018-01-10 01:18:58
Local clock offset: 2.278 ms
Remote clock offset: -3.211 ms

Below is generated by plot.py at 2018-01-10 06:36:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.56 Mbit/s
95th percentile per-packet one-way delay: 98.101 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 97.858 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 98.331 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 100.679 ms
Loss rate: 2.40%

Run 6: Report of Copa — Data Link

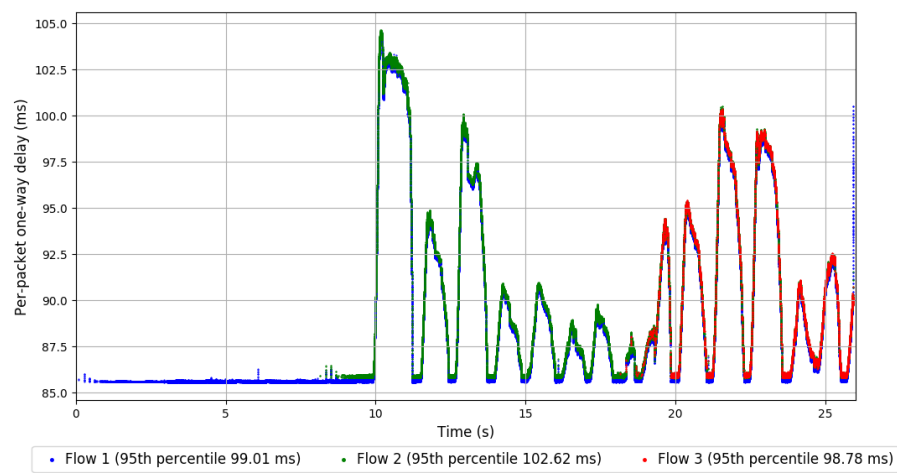
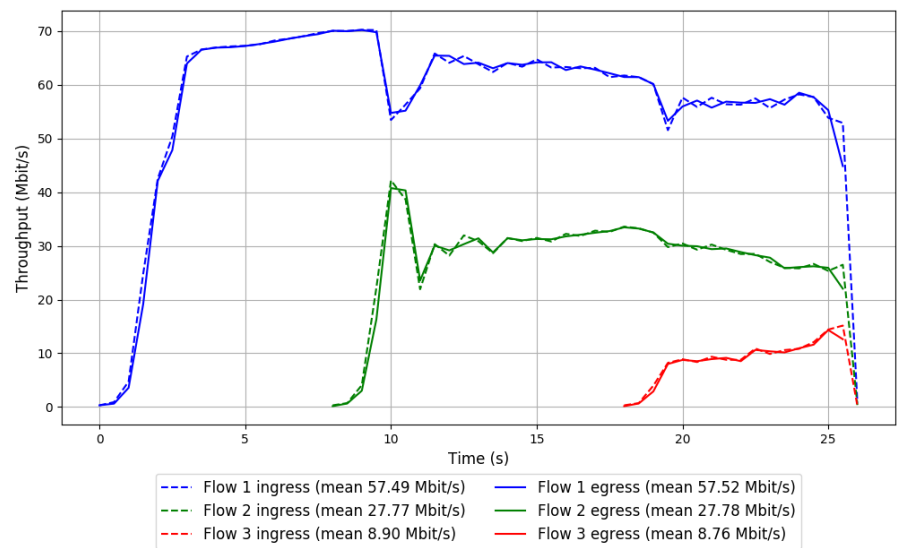


Run 7: Statistics of Copa

Start at: 2018-01-10 01:38:04
End at: 2018-01-10 01:38:34
Local clock offset: 2.506 ms
Remote clock offset: -2.711 ms

Below is generated by plot.py at 2018-01-10 06:36:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.28 Mbit/s
95th percentile per-packet one-way delay: 99.918 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 99.011 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 27.78 Mbit/s
95th percentile per-packet one-way delay: 102.617 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 98.778 ms
Loss rate: 3.68%

Run 7: Report of Copa — Data Link

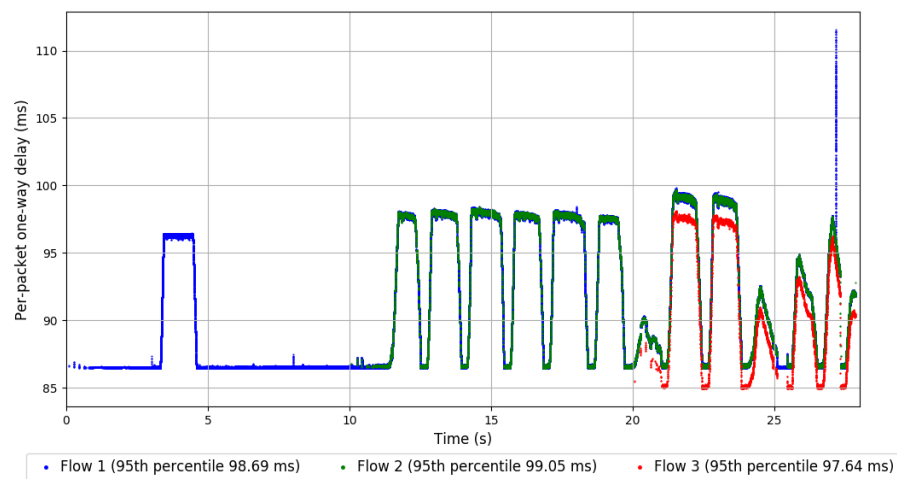
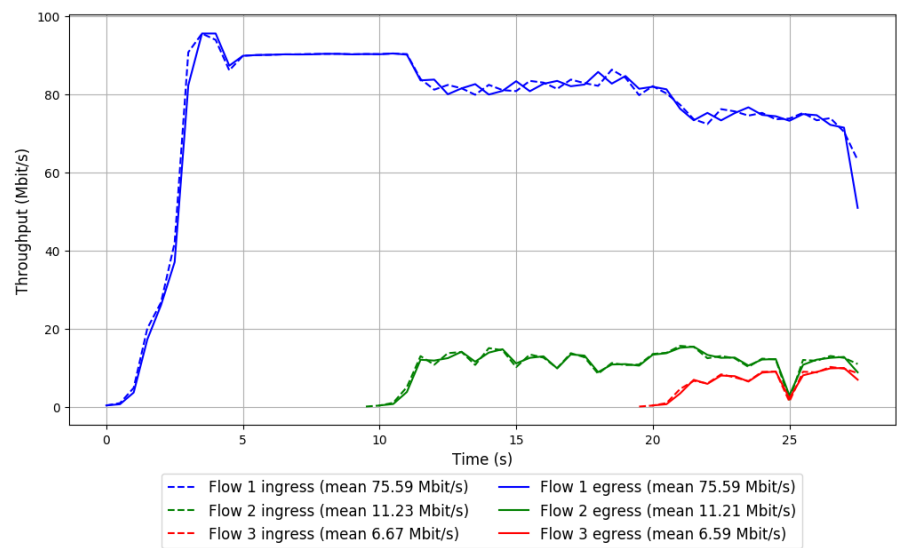


Run 8: Statistics of Copa

Start at: 2018-01-10 01:57:38
End at: 2018-01-10 01:58:08
Local clock offset: 2.209 ms
Remote clock offset: -2.723 ms

Below is generated by plot.py at 2018-01-10 06:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.62 Mbit/s
95th percentile per-packet one-way delay: 98.757 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 75.59 Mbit/s
95th percentile per-packet one-way delay: 98.695 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 99.051 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 97.636 ms
Loss rate: 3.21%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-10 02:17:12

End at: 2018-01-10 02:17:42

Local clock offset: 2.177 ms

Remote clock offset: 1.546 ms

Below is generated by plot.py at 2018-01-10 06:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 92.364 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 92.198 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 17.27 Mbit/s

95th percentile per-packet one-way delay: 92.560 ms

Loss rate: 0.99%

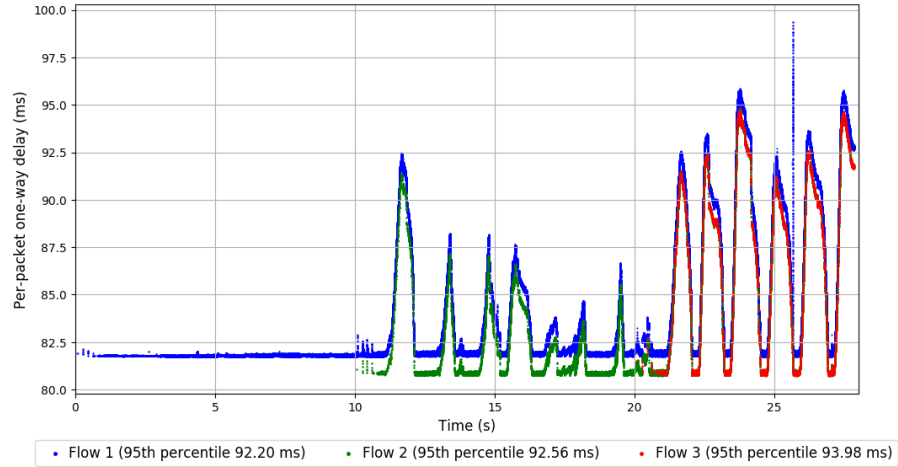
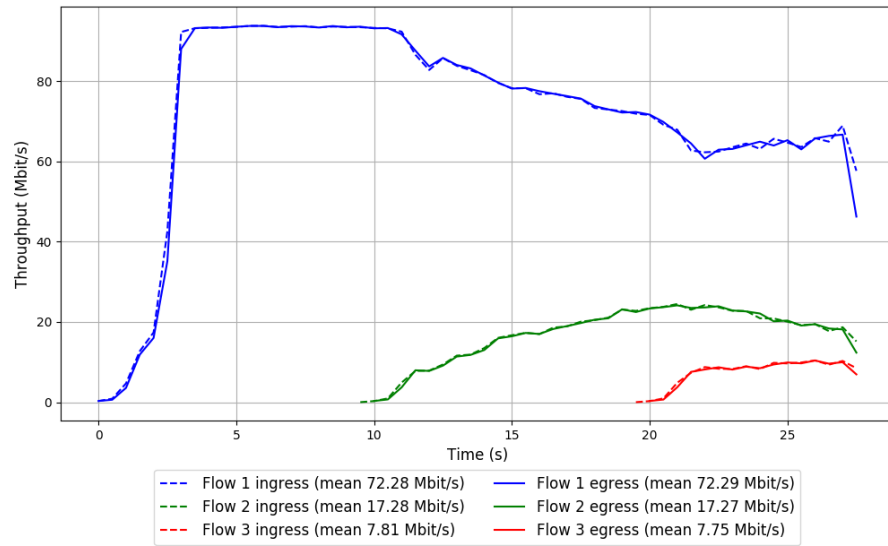
-- Flow 3:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 93.978 ms

Loss rate: 2.76%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-10 02:36:49

End at: 2018-01-10 02:37:19

Local clock offset: 2.234 ms

Remote clock offset: 0.883 ms

Below is generated by plot.py at 2018-01-10 06:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 93.665 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 92.536 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 101.007 ms

Loss rate: 0.94%

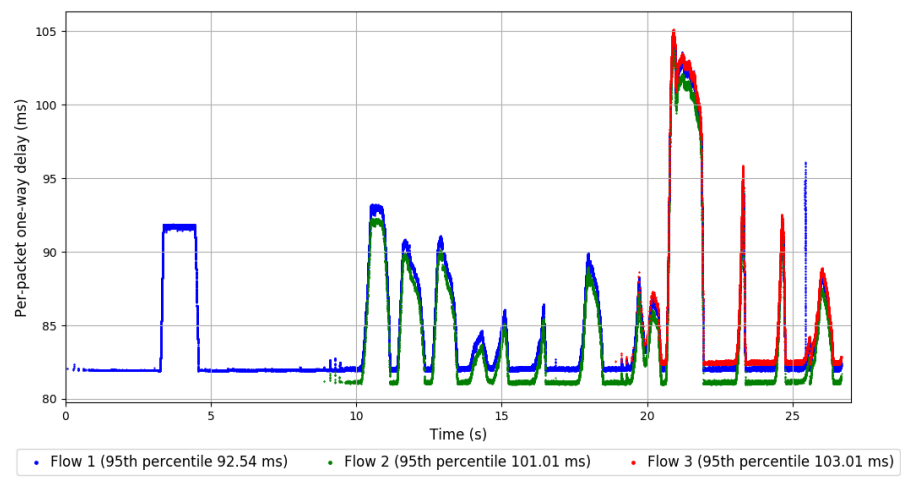
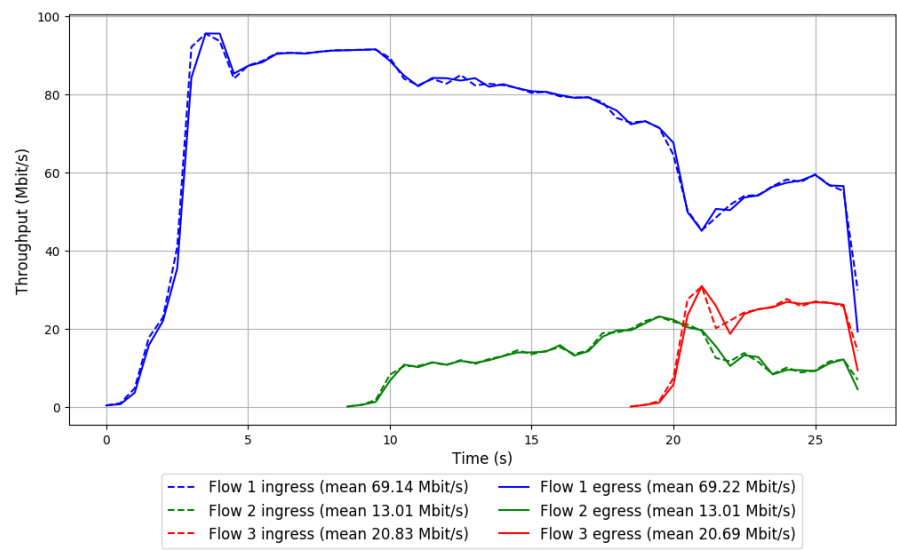
-- Flow 3:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 103.007 ms

Loss rate: 2.80%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-09 23:49:16

End at: 2018-01-09 23:49:46

Local clock offset: 1.379 ms

Remote clock offset: -2.559 ms

Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

Start at: 2018-01-10 00:08:57

End at: 2018-01-10 00:09:27

Local clock offset: 1.903 ms

Remote clock offset: 2.137 ms

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

Start at: 2018-01-10 00:28:41

End at: 2018-01-10 00:29:11

Local clock offset: 2.255 ms

Remote clock offset: -2.564 ms

Run 3: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of FillP

Start at: 2018-01-10 00:48:21

End at: 2018-01-10 00:48:51

Local clock offset: 2.285 ms

Remote clock offset: -2.607 ms

Run 4: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of FillP

Start at: 2018-01-10 01:08:00

End at: 2018-01-10 01:08:30

Local clock offset: 2.034 ms

Remote clock offset: -2.904 ms

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

Start at: 2018-01-10 01:27:36

End at: 2018-01-10 01:28:06

Local clock offset: 2.409 ms

Remote clock offset: 2.493 ms

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

Start at: 2018-01-10 01:47:11

End at: 2018-01-10 01:47:41

Local clock offset: 2.352 ms

Remote clock offset: -2.908 ms

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

Start at: 2018-01-10 02:06:46

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

Local clock offset: 2.116 ms

Remote clock offset: -3.284 ms

Run 8: Report of FillP — Data Link

Figure is missing

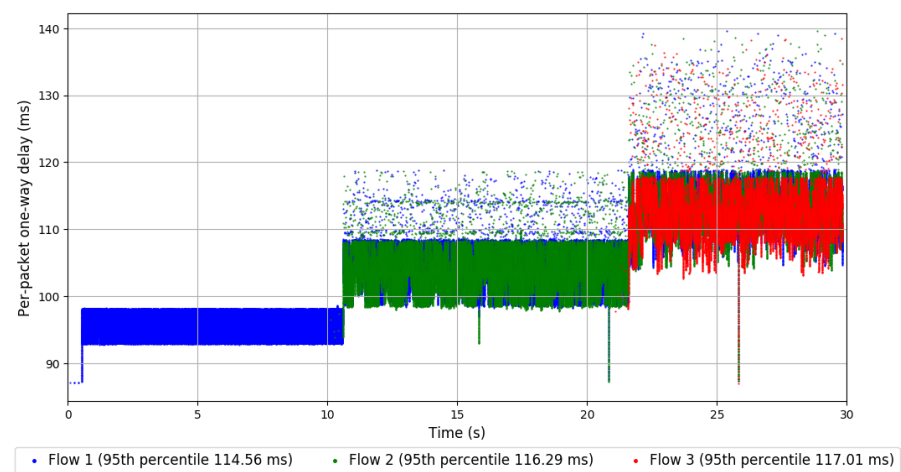
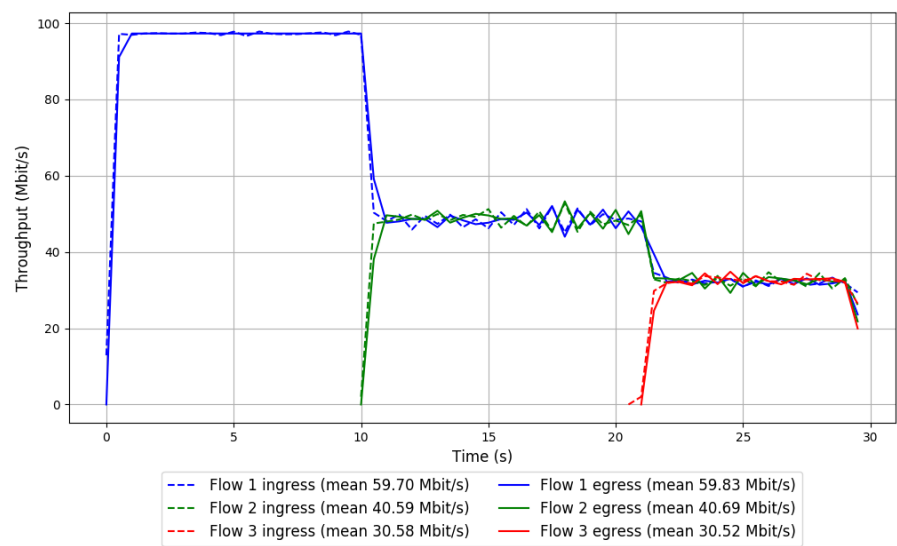
Figure is missing

Run 9: Statistics of FillP

Start at: 2018-01-10 02:26:21
End at: 2018-01-10 02:26:51
Local clock offset: 2.231 ms
Remote clock offset: -3.681 ms

Below is generated by plot.py at 2018-01-10 06:40:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 115.791 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 114.558 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 116.294 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 30.52 Mbit/s
95th percentile per-packet one-way delay: 117.013 ms
Loss rate: 2.43%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-10 02:45:57

End at: 2018-01-10 02:46:27

Local clock offset: 1.947 ms

Remote clock offset: -4.119 ms

Run 10: Report of FillP — Data Link

Figure is missing

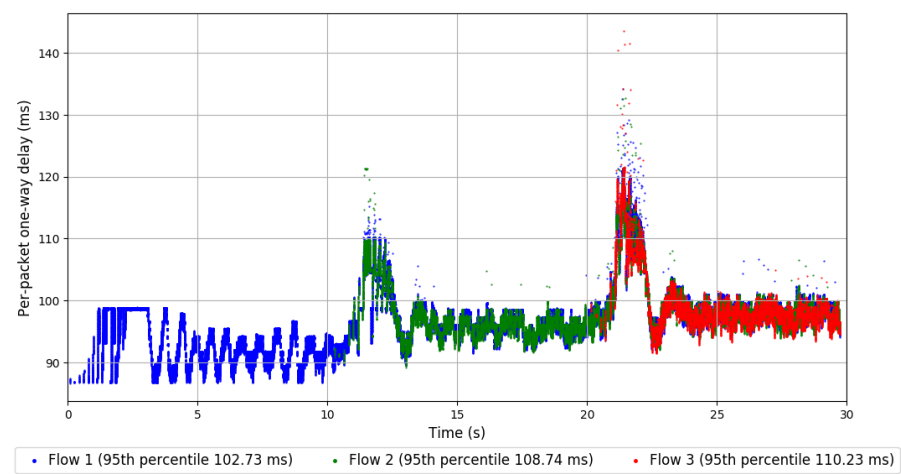
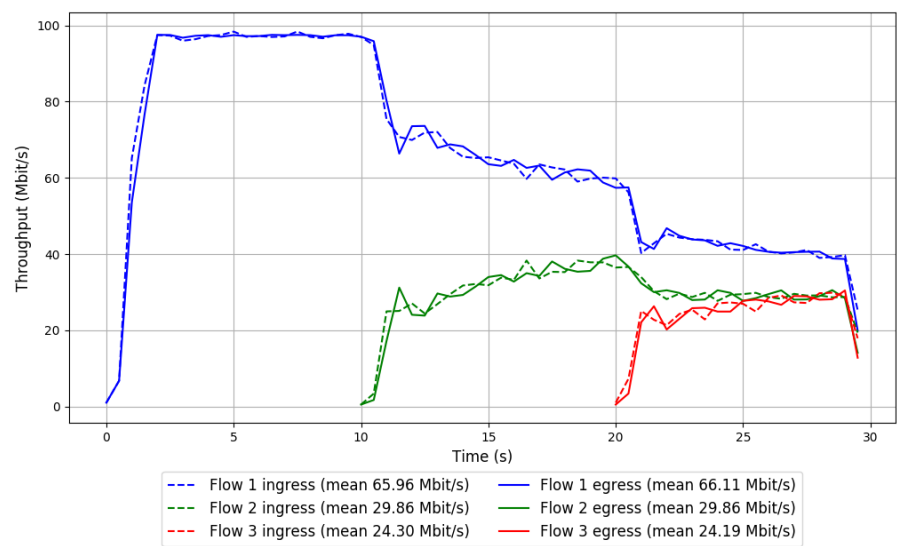
Figure is missing

```
Run 1: Statistics of Indigo

Start at: 2018-01-09 23:43:57
End at: 2018-01-09 23:44:27
Local clock offset: 1.253 ms
Remote clock offset: -2.615 ms

# Below is generated by plot.py at 2018-01-10 06:40:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 105.693 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 66.11 Mbit/s
95th percentile per-packet one-way delay: 102.732 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 108.739 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 110.232 ms
Loss rate: 2.18%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-10 00:03:41

End at: 2018-01-10 00:04:11

Local clock offset: 1.85 ms

Remote clock offset: 2.127 ms

Below is generated by plot.py at 2018-01-10 06:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 96.572 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 71.53 Mbit/s

95th percentile per-packet one-way delay: 93.470 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 99.468 ms

Loss rate: 0.84%

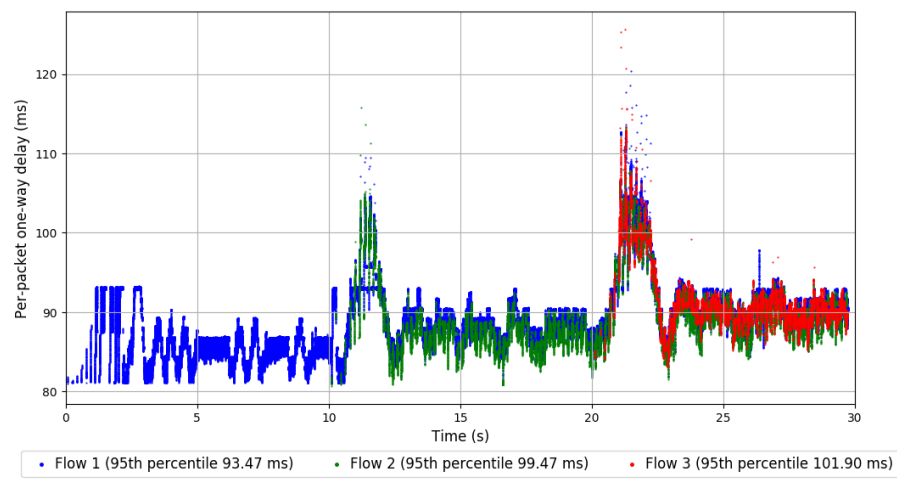
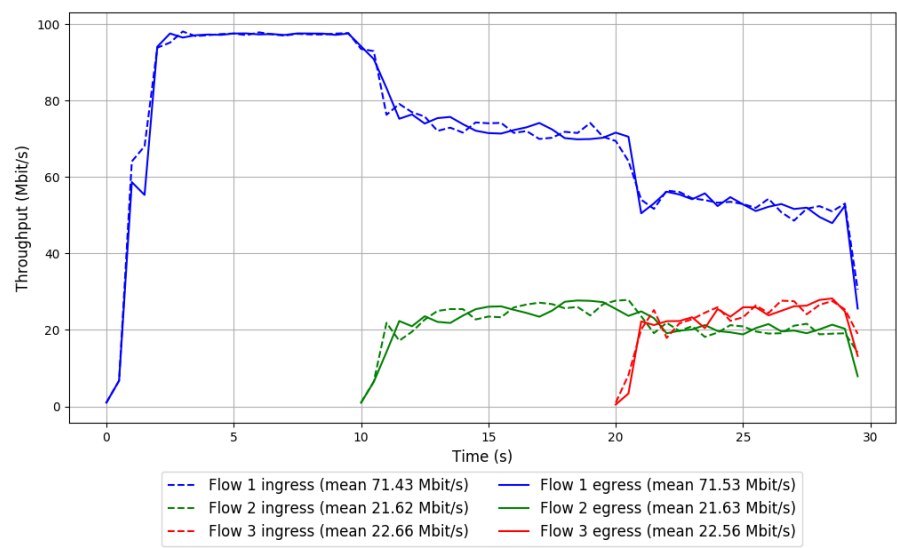
-- Flow 3:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 101.898 ms

Loss rate: 2.17%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-10 00:23:26

End at: 2018-01-10 00:23:56

Local clock offset: 2.197 ms

Remote clock offset: 2.304 ms

Below is generated by plot.py at 2018-01-10 06:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 98.407 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 96.296 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 101.848 ms

Loss rate: 0.84%

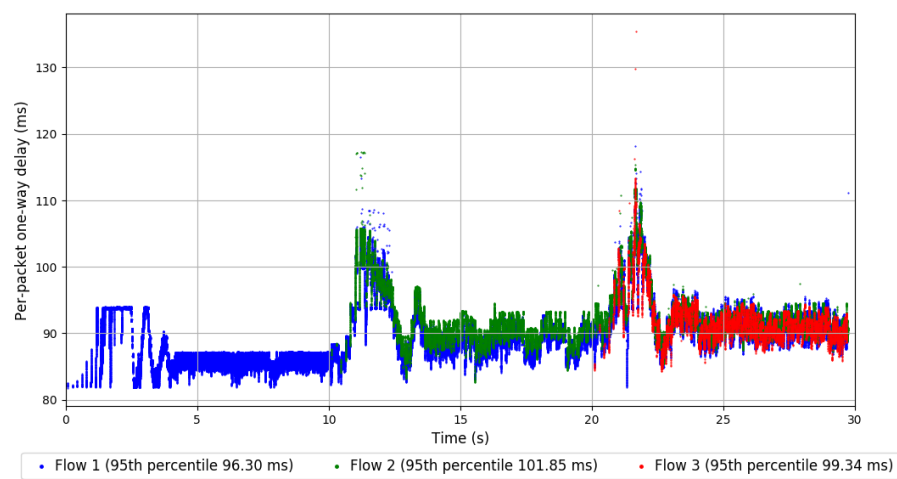
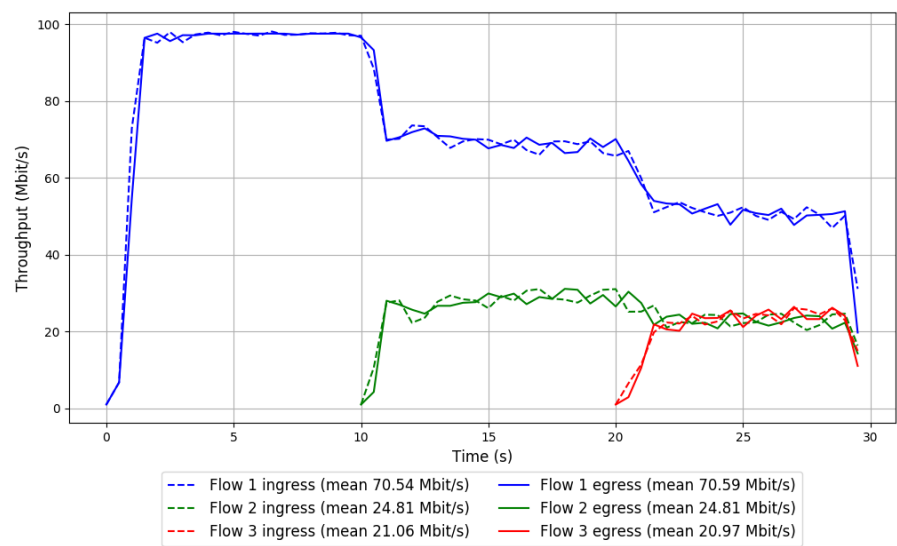
-- Flow 3:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 99.340 ms

Loss rate: 2.16%

Run 3: Report of Indigo — Data Link

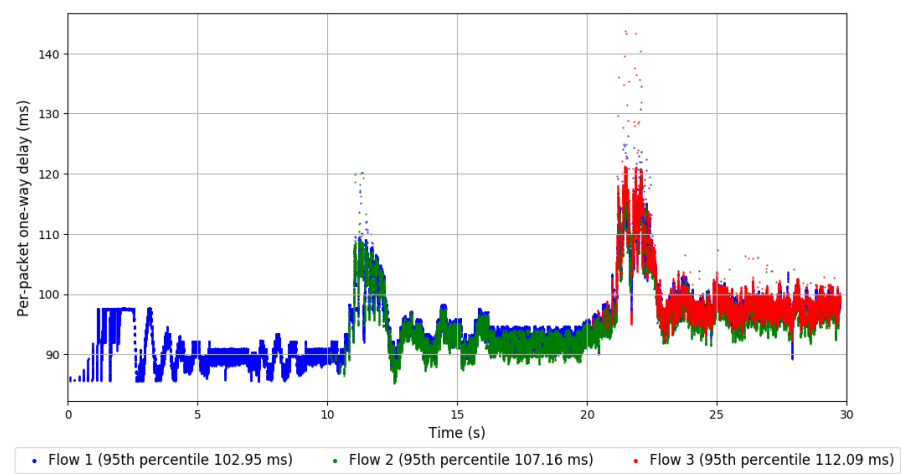
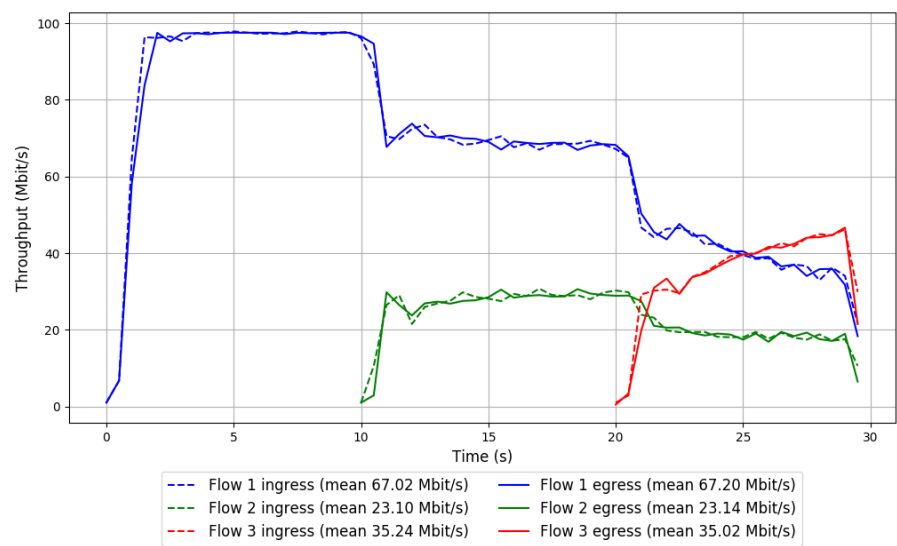


Run 4: Statistics of Indigo

Start at: 2018-01-10 00:43:06
End at: 2018-01-10 00:43:36
Local clock offset: 2.583 ms
Remote clock offset: -2.482 ms

Below is generated by plot.py at 2018-01-10 06:40:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 105.234 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 67.20 Mbit/s
95th percentile per-packet one-way delay: 102.946 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 107.158 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 112.089 ms
Loss rate: 2.46%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-10 01:02:45

End at: 2018-01-10 01:03:15

Local clock offset: 2.123 ms

Remote clock offset: 2.299 ms

Below is generated by plot.py at 2018-01-10 06:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 97.557 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 94.997 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 100.844 ms

Loss rate: 0.77%

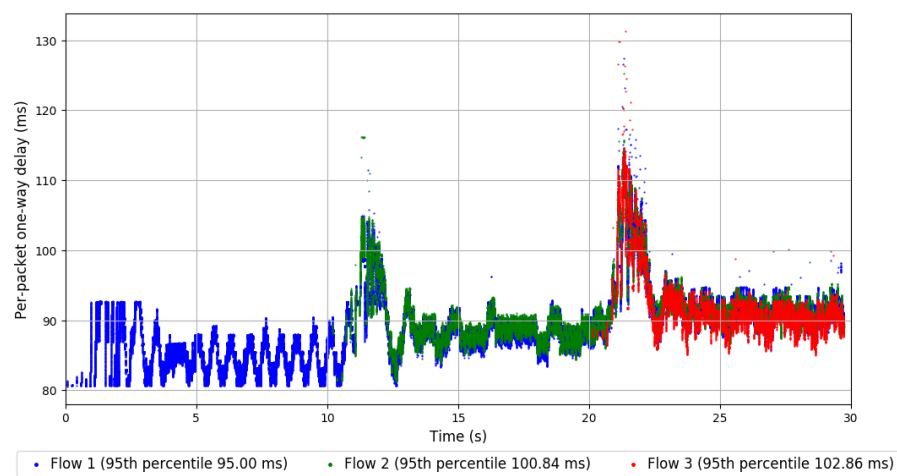
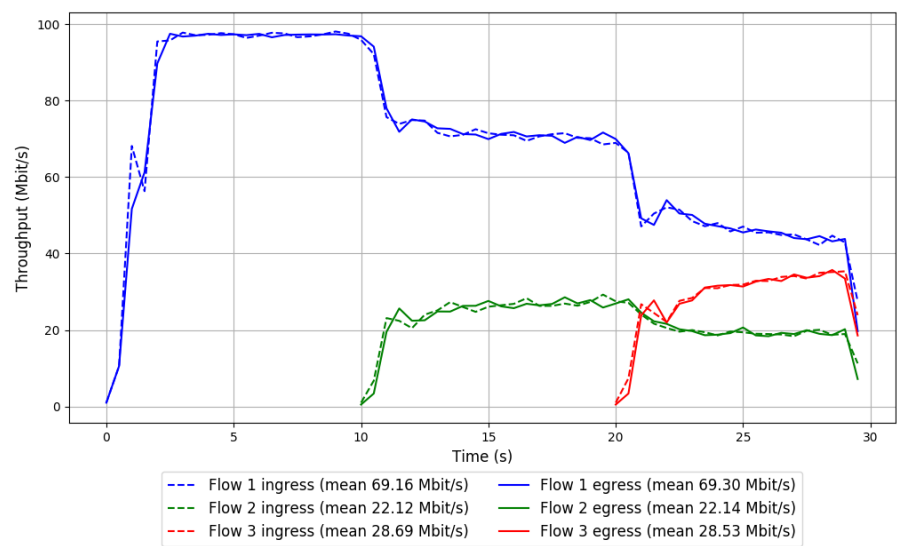
-- Flow 3:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 102.864 ms

Loss rate: 2.34%

Run 5: Report of Indigo — Data Link

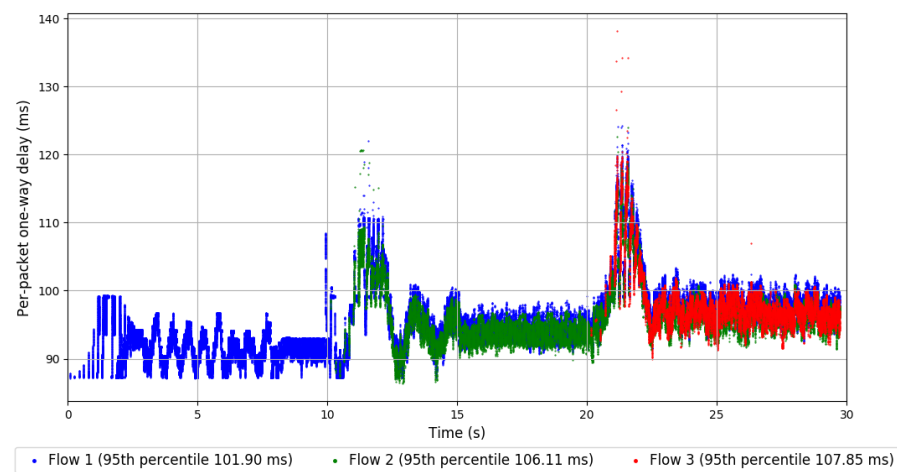
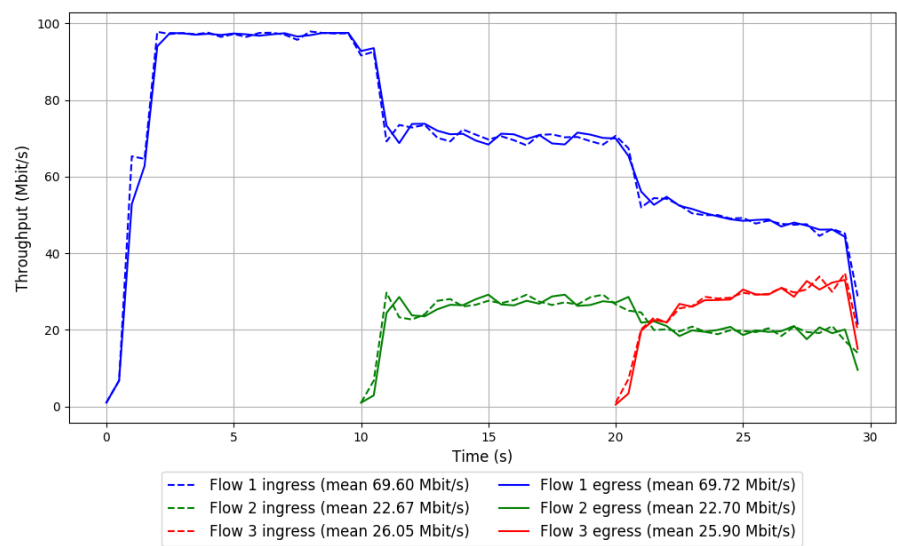


Run 6: Statistics of Indigo

Start at: 2018-01-10 01:22:22
End at: 2018-01-10 01:22:52
Local clock offset: 2.308 ms
Remote clock offset: -3.187 ms

Below is generated by plot.py at 2018-01-10 06:41:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 103.215 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 101.904 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 106.107 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 25.90 Mbit/s
95th percentile per-packet one-way delay: 107.854 ms
Loss rate: 2.31%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-10 01:41:57

End at: 2018-01-10 01:42:27

Local clock offset: 2.474 ms

Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-01-10 06:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 98.934 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 95.120 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 102.042 ms

Loss rate: 0.85%

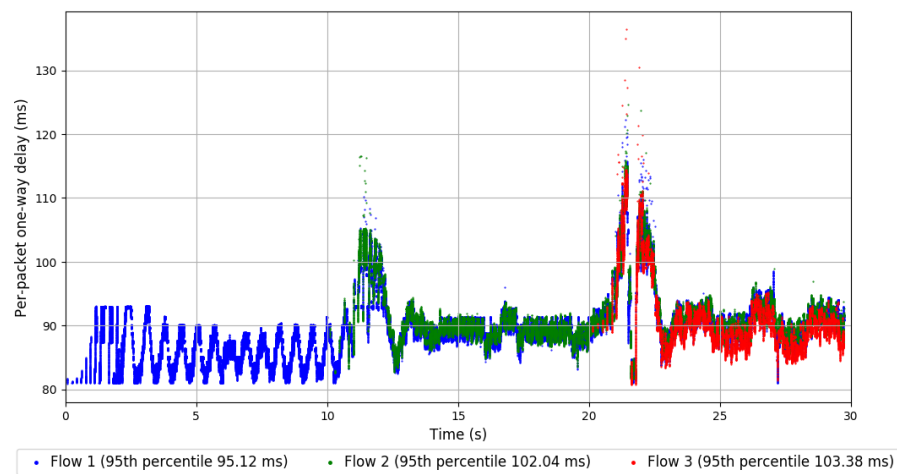
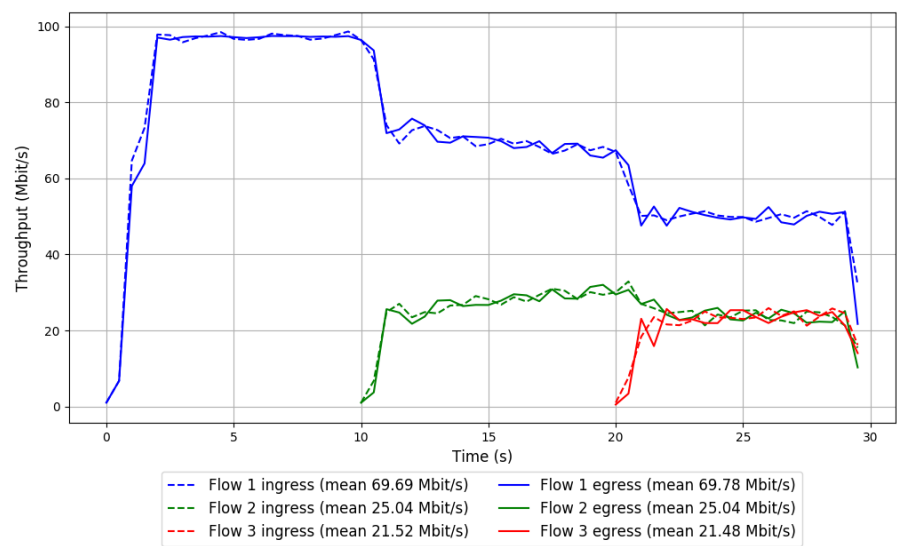
-- Flow 3:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 103.376 ms

Loss rate: 2.03%

Run 7: Report of Indigo — Data Link

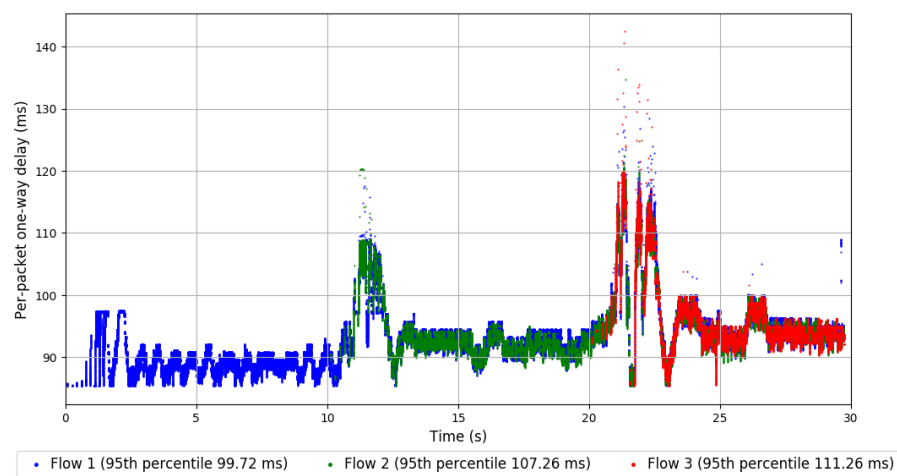
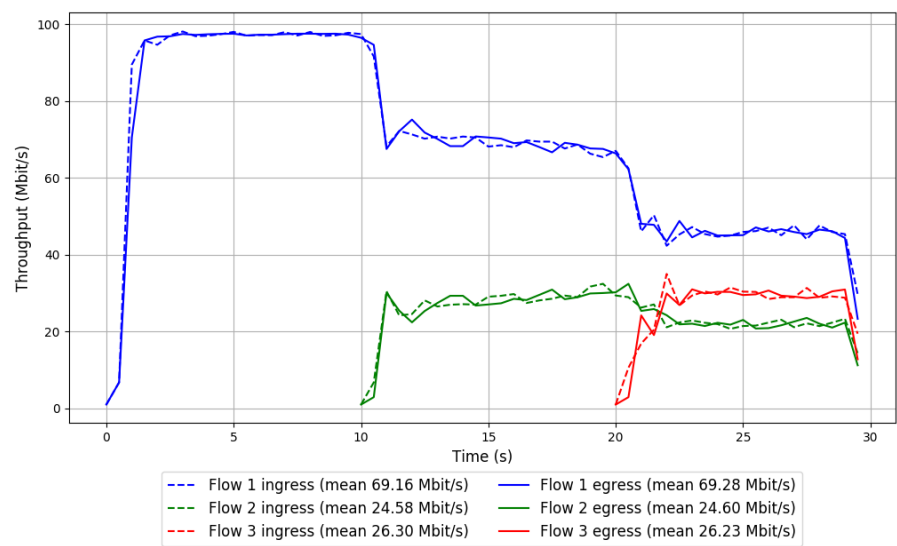


Run 8: Statistics of Indigo

Start at: 2018-01-10 02:01:33
End at: 2018-01-10 02:02:03
Local clock offset: 2.069 ms
Remote clock offset: -2.843 ms

Below is generated by plot.py at 2018-01-10 06:41:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 103.395 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 69.28 Mbit/s
95th percentile per-packet one-way delay: 99.723 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 107.264 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 26.23 Mbit/s
95th percentile per-packet one-way delay: 111.259 ms
Loss rate: 2.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-10 02:21:07

End at: 2018-01-10 02:21:37

Local clock offset: 2.195 ms

Remote clock offset: 1.223 ms

Below is generated by plot.py at 2018-01-10 06:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 101.609 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 64.60 Mbit/s

95th percentile per-packet one-way delay: 99.331 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 25.45 Mbit/s

95th percentile per-packet one-way delay: 104.669 ms

Loss rate: 0.62%

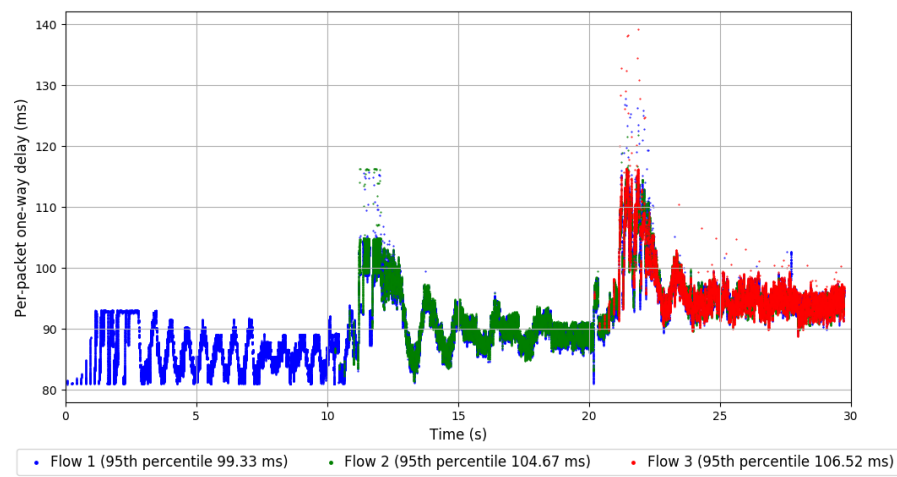
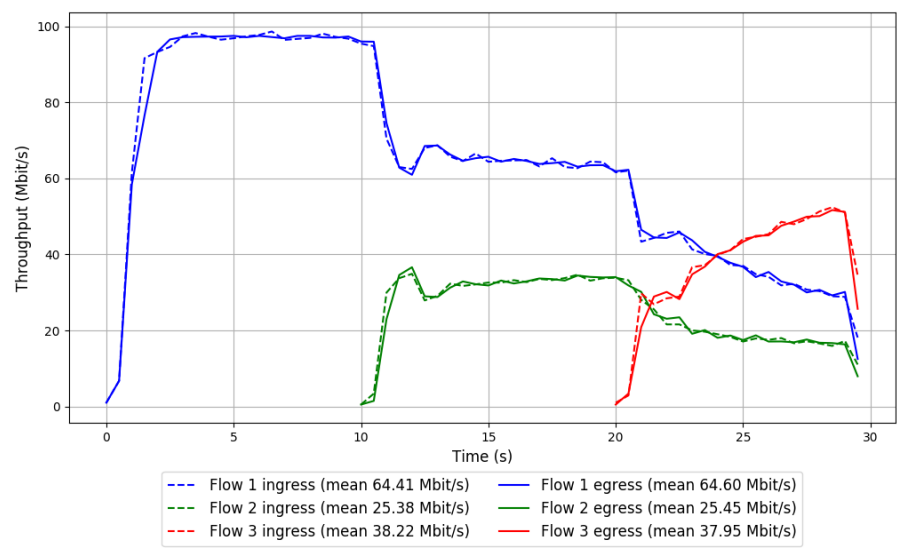
-- Flow 3:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 106.524 ms

Loss rate: 2.57%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-10 02:40:44

End at: 2018-01-10 02:41:14

Local clock offset: 2.182 ms

Remote clock offset: 0.779 ms

Below is generated by plot.py at 2018-01-10 06:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 102.257 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 100.407 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 34.09 Mbit/s

95th percentile per-packet one-way delay: 104.959 ms

Loss rate: 0.83%

-- Flow 3:

Average throughput: 29.87 Mbit/s

95th percentile per-packet one-way delay: 109.331 ms

Loss rate: 2.44%

Run 10: Report of Indigo — Data Link

