

Pantheon Report

Generated at 2018-12-02 16:44:47 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 1 on **ens5** (*local*).

Repeated the test of 19 congestion control schemes 5 times.

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

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

System info:

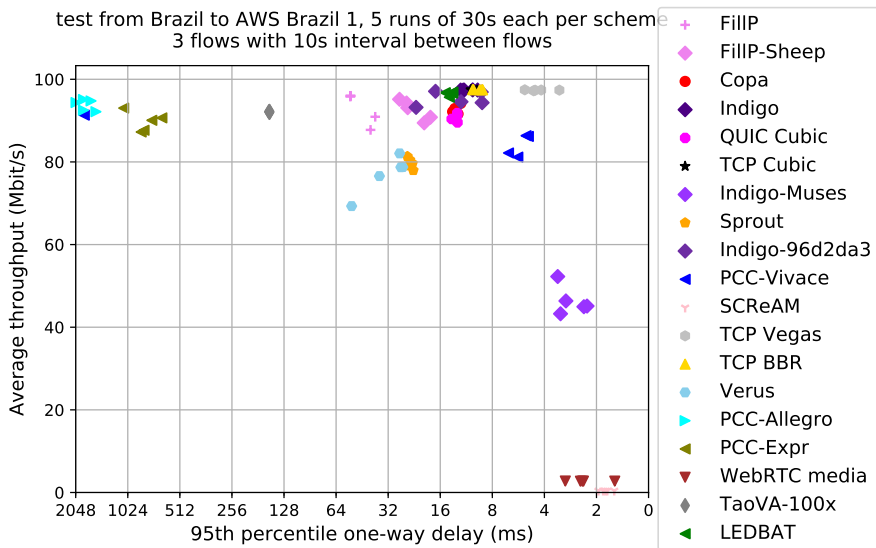
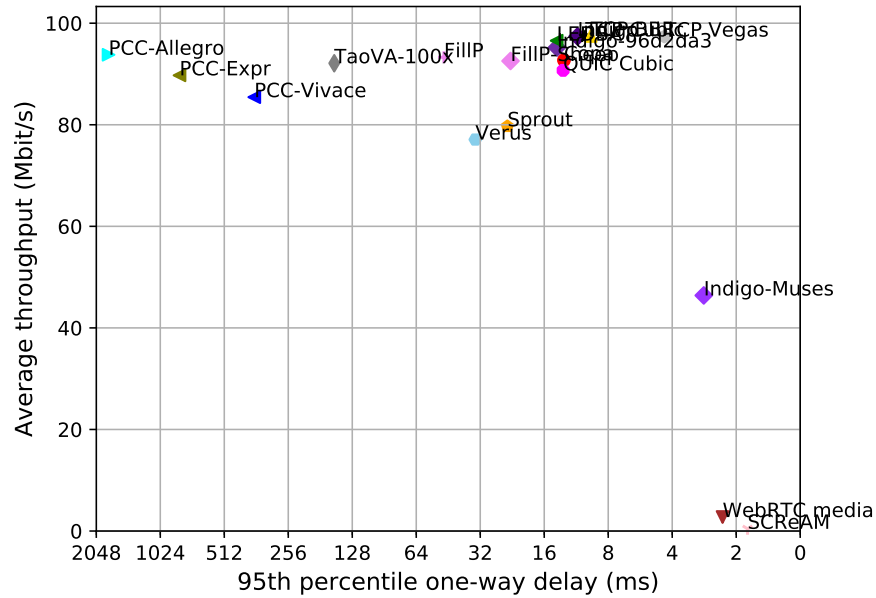
```
Linux 4.15.0-1027-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



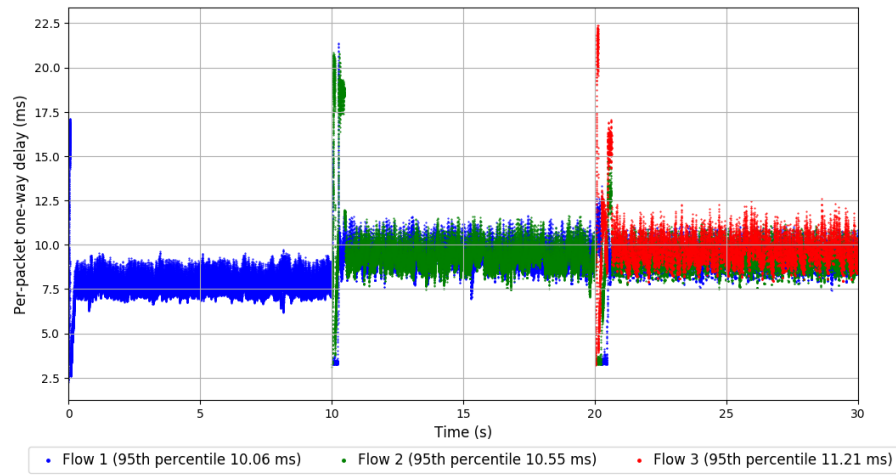
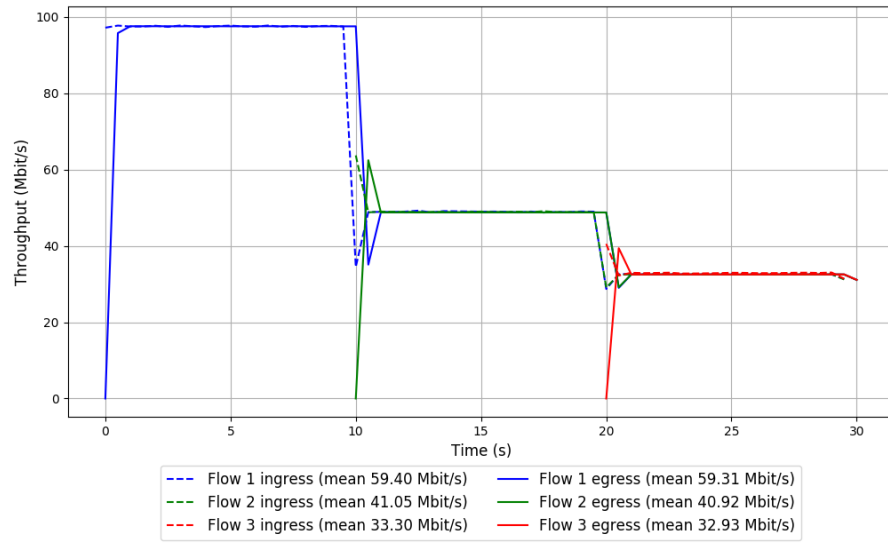
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	59.30	40.89	32.97	8.97	10.06	11.40	0.14	0.44	0.66
Copa	5	55.87	39.78	31.11	11.88	12.80	16.94	0.05	0.09	0.15
TCP Cubic	5	59.57	40.61	32.43	10.30	10.12	10.34	0.08	0.15	0.23
FillP	5	56.29	41.61	28.10	29.65	48.85	52.68	0.10	1.99	2.34
FillP-Sheep	5	58.73	36.77	28.25	21.52	22.39	33.82	0.02	0.02	0.22
Indigo	5	59.67	40.67	32.46	9.74	11.50	9.77	0.08	2.14	0.57
Indigo-96d2da3	5	56.93	40.58	34.08	8.90	9.76	14.64	0.01	0.03	0.53
LEDBAT	5	58.79	40.49	32.53	13.73	14.36	13.85	0.13	0.23	0.40
Indigo-Muses	5	22.48	24.67	22.65	2.73	2.85	3.11	0.01	0.02	0.02
PCC-Allegro	5	63.60	33.05	24.98	1952.82	527.45	7.89	10.34	5.32	0.06
PCC-Expr	5	54.18	39.49	28.15	710.21	619.01	398.84	15.04	14.04	6.46
QUIC Cubic	5	53.75	40.07	31.16	12.86	12.95	13.33	0.16	0.31	0.48
SCReAM	5	0.22	0.22	0.22	1.65	1.63	1.62	0.00	0.00	0.28
Sprout	5	43.19	38.91	32.19	22.26	23.94	25.36	0.10	0.16	0.51
TaoVA-100x	5	55.30	39.42	31.80	155.12	155.66	155.73	0.53	1.12	2.74
TCP Vegas	5	52.73	47.60	38.91	3.44	3.91	4.80	0.01	0.01	0.06
Verus	5	40.21	40.90	29.03	29.99	22.81	161.52	0.03	0.05	0.16
PCC-Vivace	5	53.25	35.47	26.05	374.14	152.41	28.43	1.02	0.58	0.10
WebRTC media	5	1.48	0.86	0.42	2.27	2.27	2.50	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-12-02 14:55:05
End at: 2018-12-02 14:55:35
Local clock offset: 0.312 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-12-02 16:32:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 10.386 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 10.063 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 10.547 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 11.212 ms
Loss rate: 1.16%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-12-02 15:17:00

End at: 2018-12-02 15:17:30

Local clock offset: -0.384 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-12-02 16:32:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.106 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 59.29 Mbit/s

95th percentile per-packet one-way delay: 8.012 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.86 Mbit/s

95th percentile per-packet one-way delay: 9.715 ms

Loss rate: 0.26%

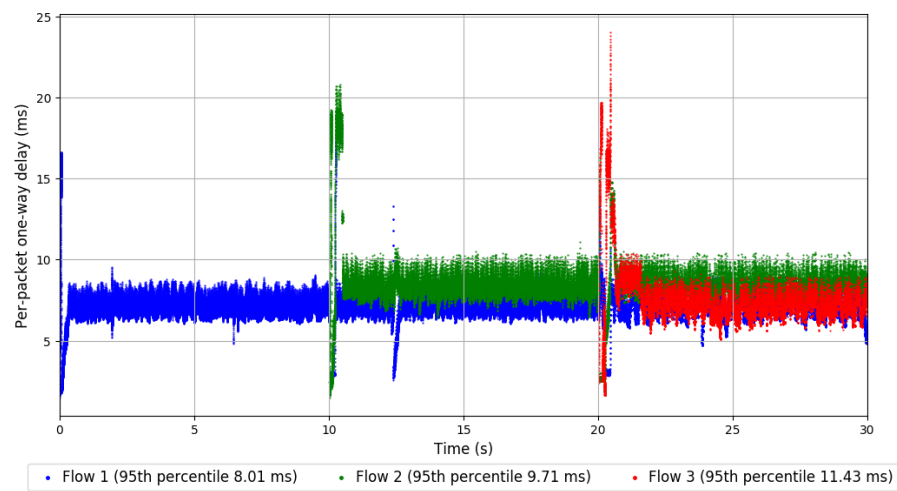
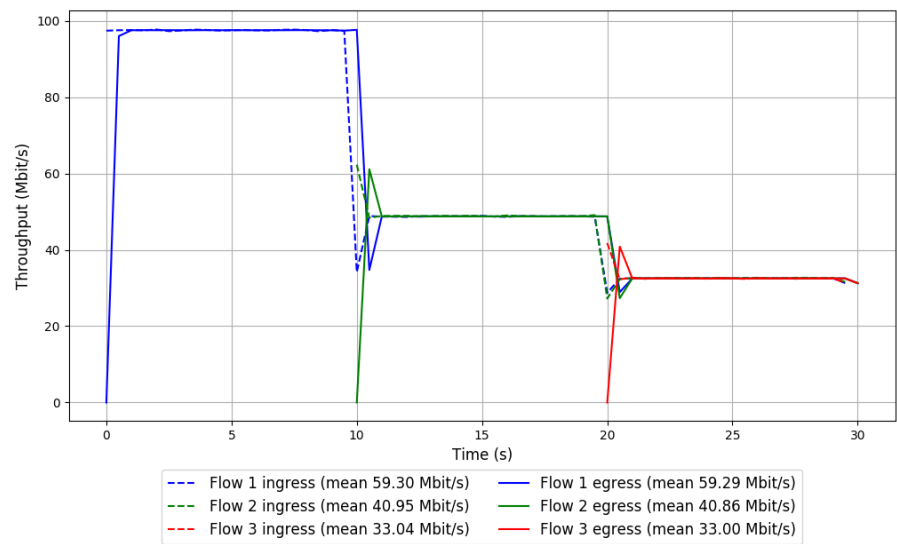
-- Flow 3:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 11.431 ms

Loss rate: 0.14%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-12-02 15:38:53

End at: 2018-12-02 15:39:23

Local clock offset: -5.451 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2018-12-02 16:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 10.283 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 10.134 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 10.444 ms

Loss rate: 0.36%

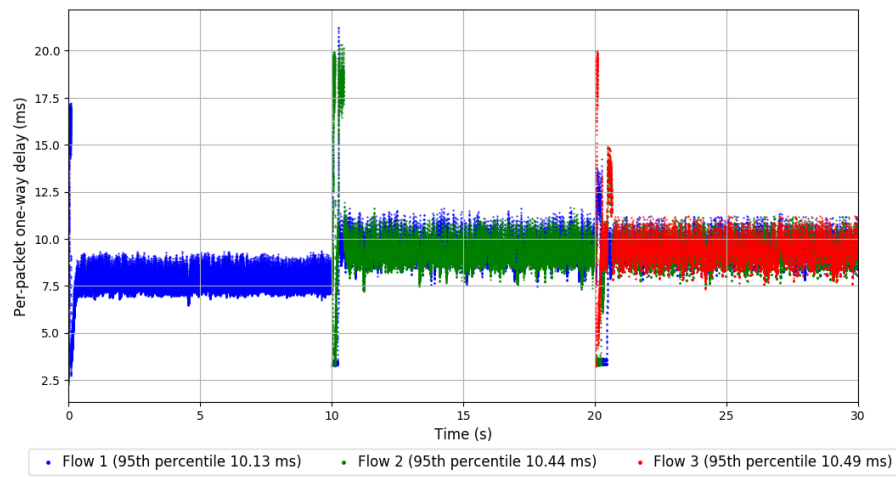
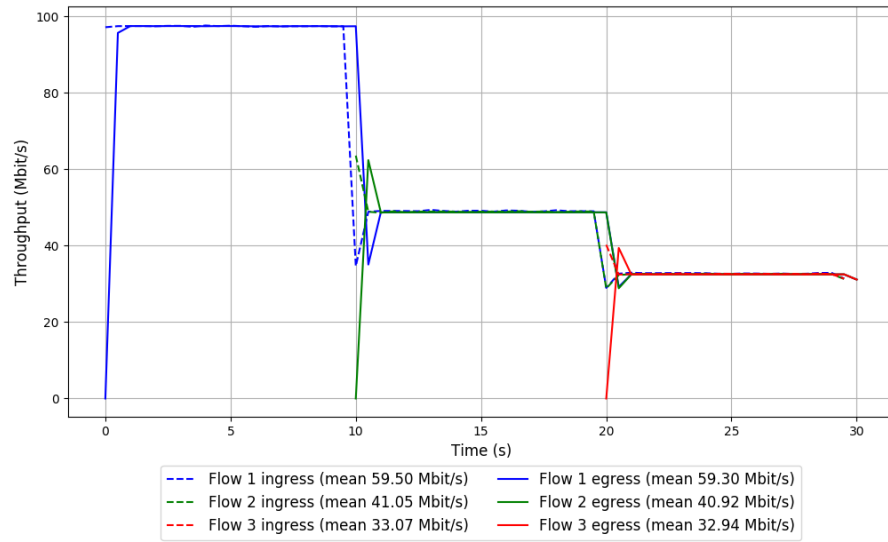
-- Flow 3:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 10.490 ms

Loss rate: 0.44%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-12-02 16:00:49

End at: 2018-12-02 16:01:19

Local clock offset: -7.527 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2018-12-02 16:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 9.451 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 8.347 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 9.623 ms

Loss rate: 0.28%

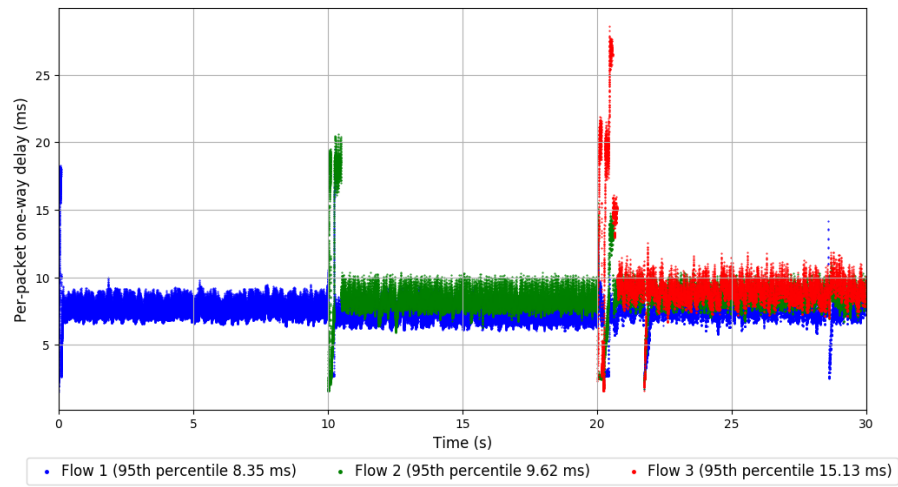
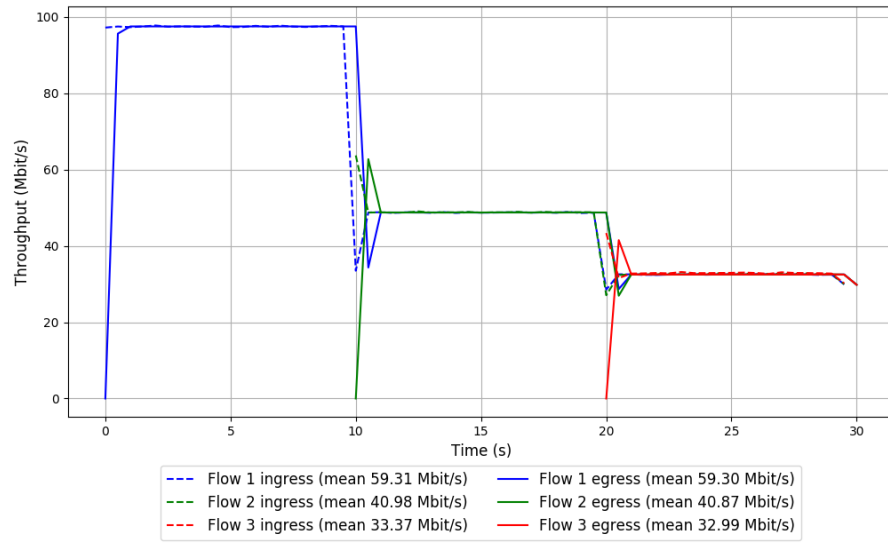
-- Flow 3:

Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 15.129 ms

Loss rate: 1.18%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-12-02 16:22:44

End at: 2018-12-02 16:23:14

Local clock offset: -2.303 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2018-12-02 16:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 9.152 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 8.278 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 9.967 ms

Loss rate: 0.97%

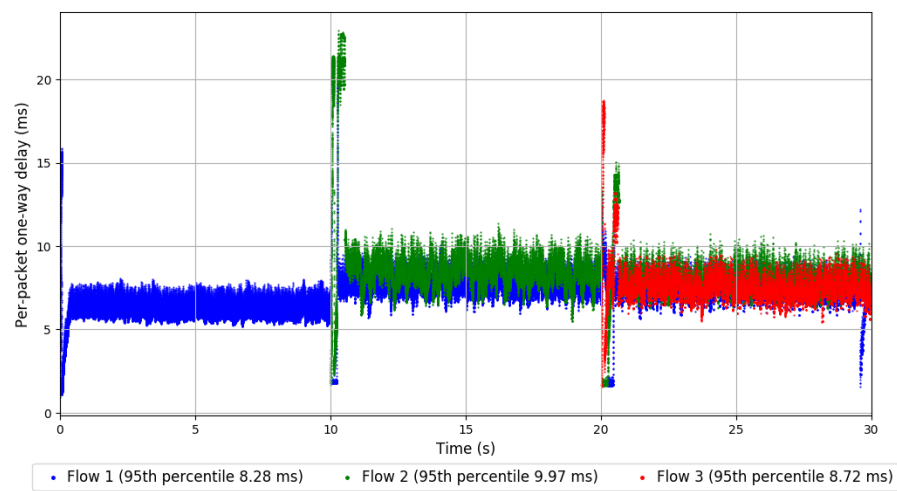
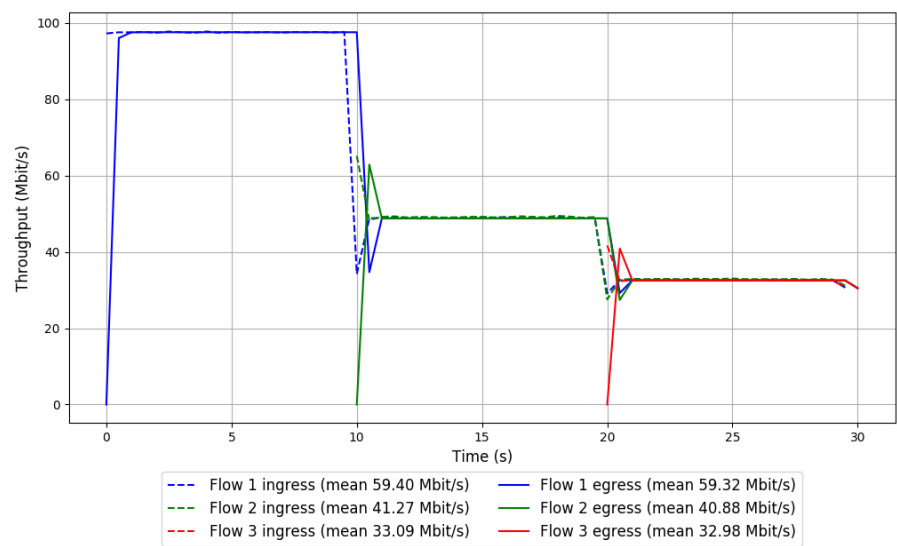
-- Flow 3:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 8.720 ms

Loss rate: 0.37%

Run 5: Report of TCP BBR — Data Link

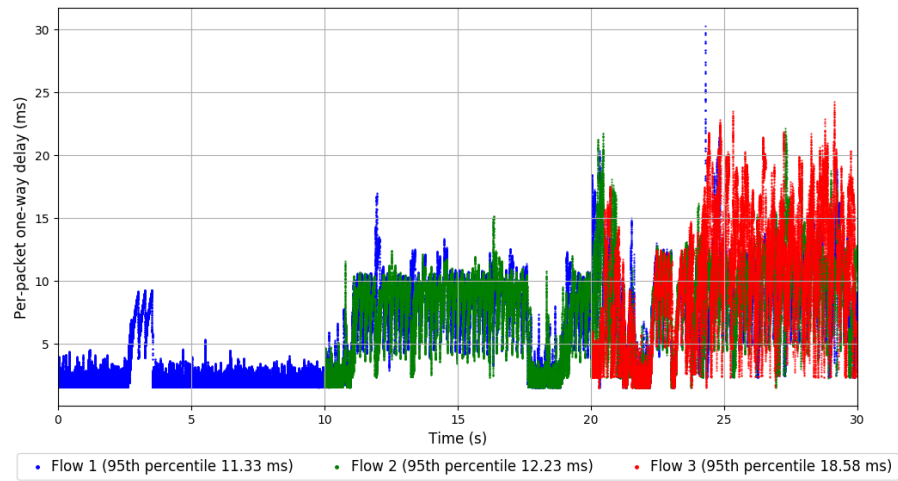
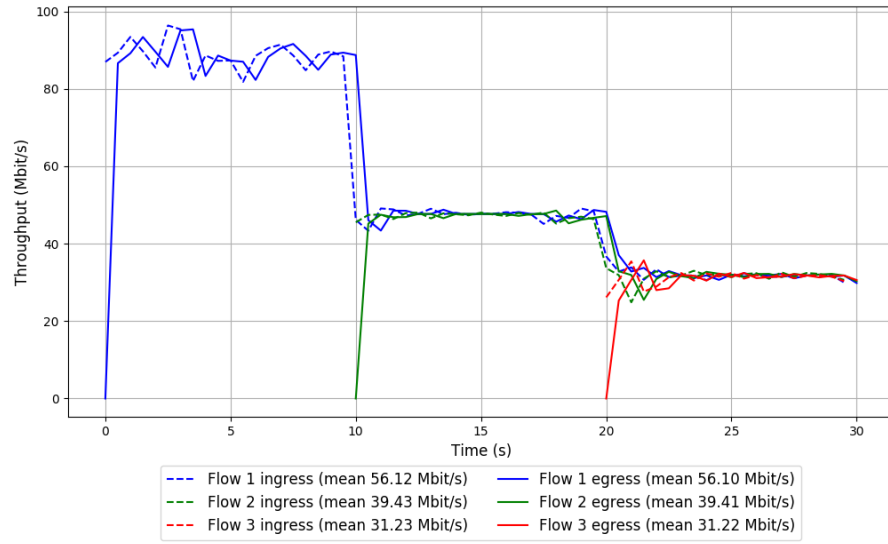


Run 1: Statistics of Copa

Start at: 2018-12-02 14:46:59
End at: 2018-12-02 14:47:29
Local clock offset: 0.401 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-12-02 16:33:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 13.060 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 11.334 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 12.234 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 18.579 ms
Loss rate: 0.05%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-02 15:08:53

End at: 2018-12-02 15:09:23

Local clock offset: -0.601 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-12-02 16:33:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 12.626 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 11.871 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 12.427 ms

Loss rate: 0.08%

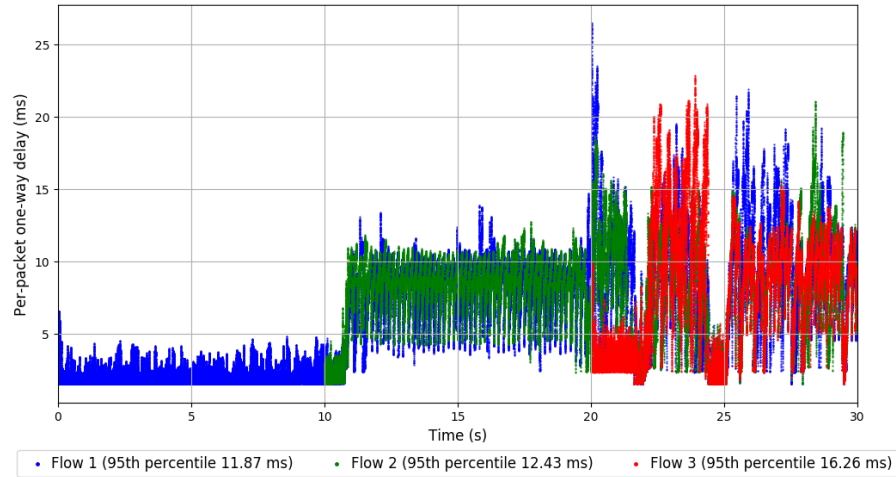
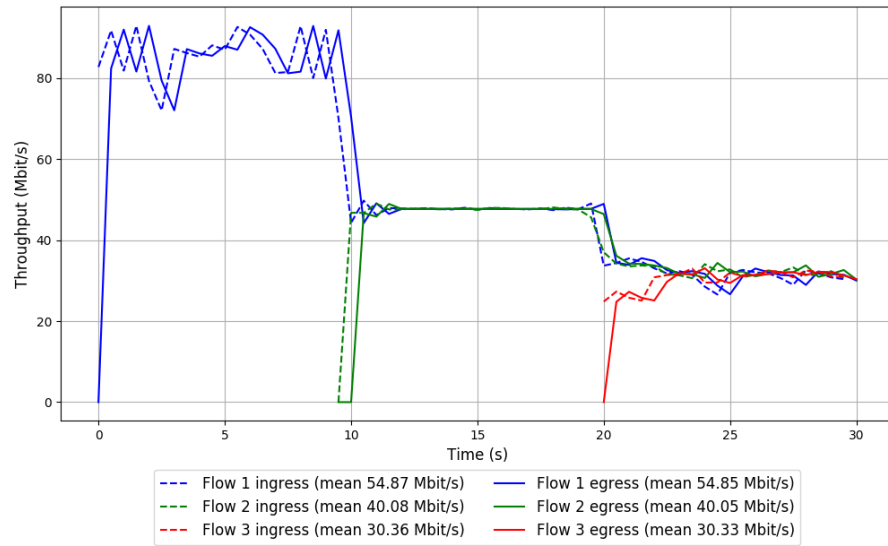
-- Flow 3:

Average throughput: 30.33 Mbit/s

95th percentile per-packet one-way delay: 16.260 ms

Loss rate: 0.13%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-12-02 15:30:48

End at: 2018-12-02 15:31:18

Local clock offset: -4.48 ms

Remote clock offset: 0.316 ms

Below is generated by plot.py at 2018-12-02 16:33:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 13.570 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 12.078 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 14.374 ms

Loss rate: 0.09%

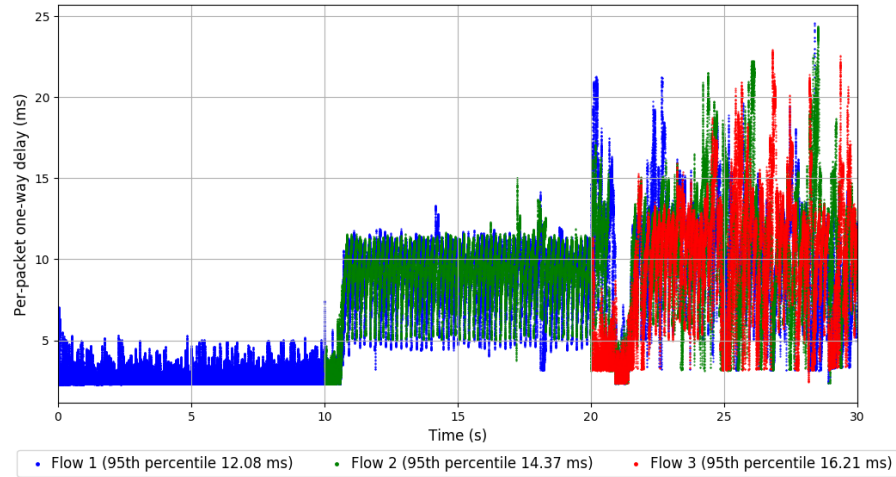
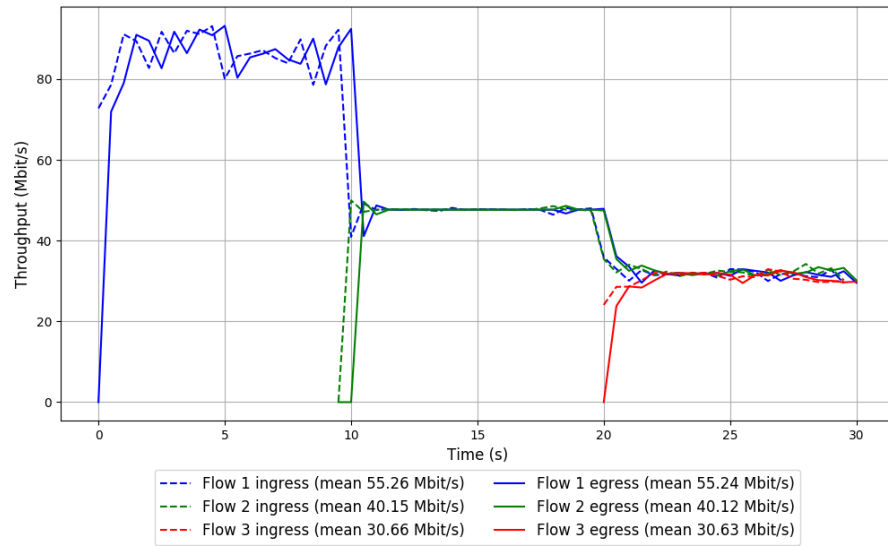
-- Flow 3:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 16.215 ms

Loss rate: 0.15%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-12-02 15:52:43

End at: 2018-12-02 15:53:13

Local clock offset: -6.372 ms

Remote clock offset: 0.435 ms

Below is generated by plot.py at 2018-12-02 16:34:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 13.180 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 55.74 Mbit/s

95th percentile per-packet one-way delay: 12.633 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 12.257 ms

Loss rate: 0.10%

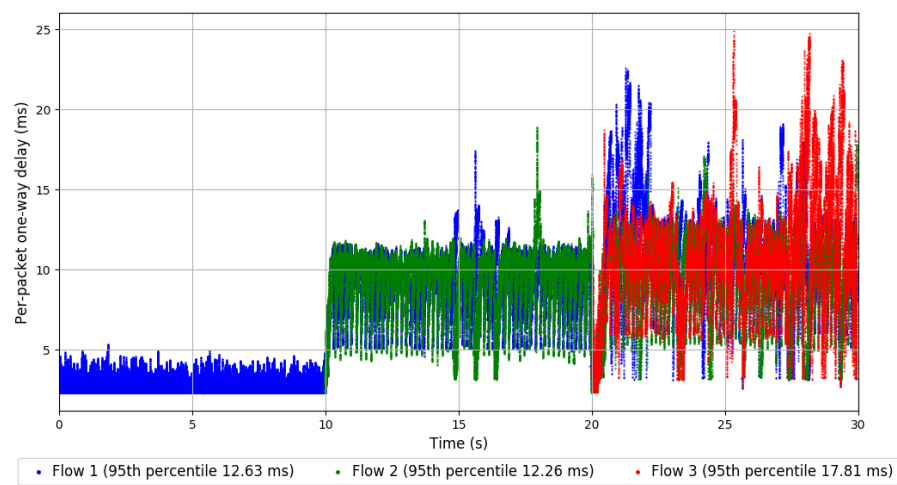
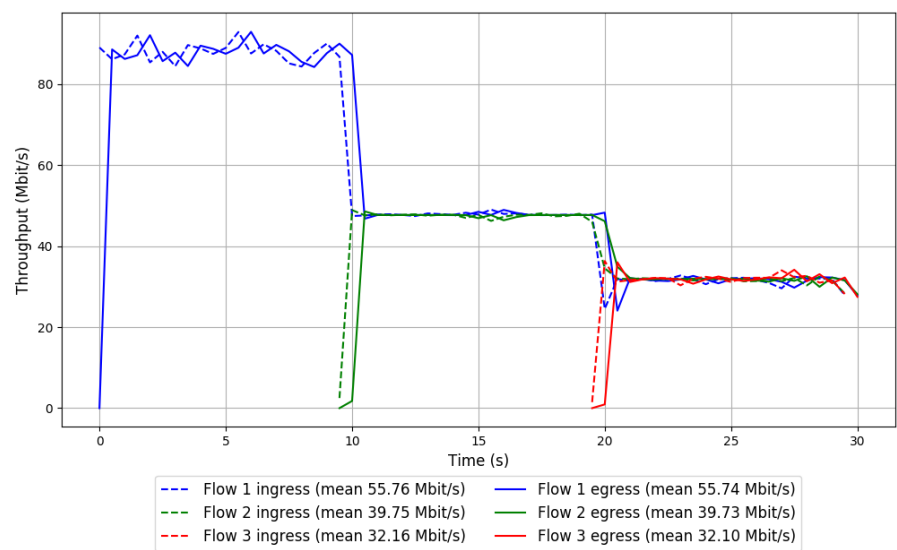
-- Flow 3:

Average throughput: 32.10 Mbit/s

95th percentile per-packet one-way delay: 17.811 ms

Loss rate: 0.24%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-02 16:14:38

End at: 2018-12-02 16:15:08

Local clock offset: -8.102 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-12-02 16:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 12.178 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 11.504 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 12.691 ms

Loss rate: 0.07%

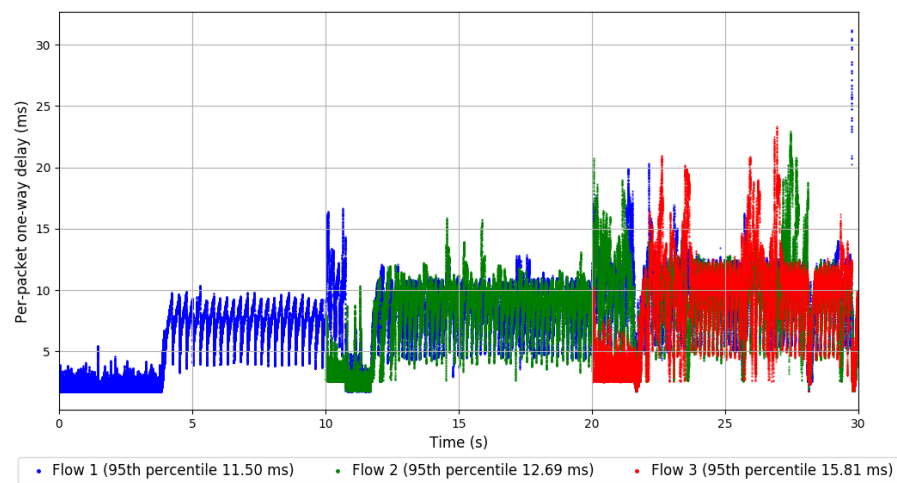
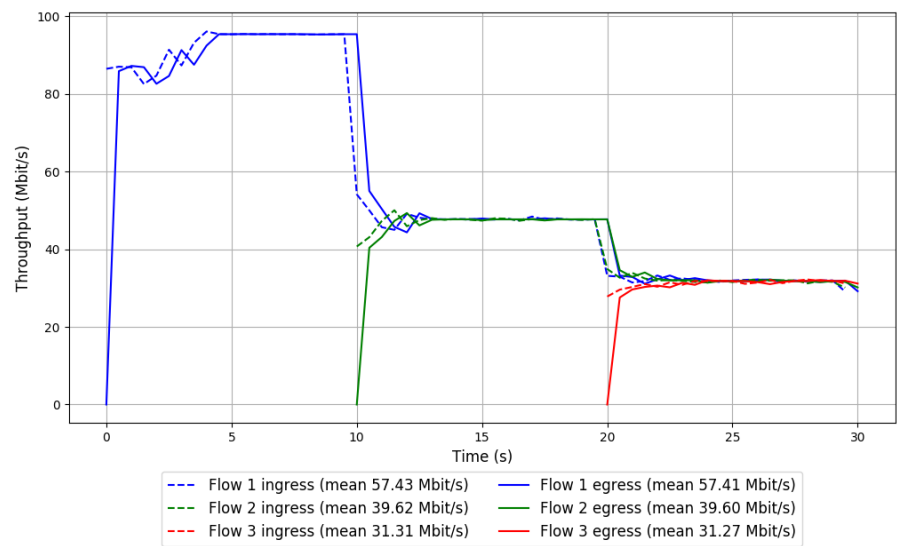
-- Flow 3:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 15.814 ms

Loss rate: 0.16%

Run 5: Report of Copa — Data Link

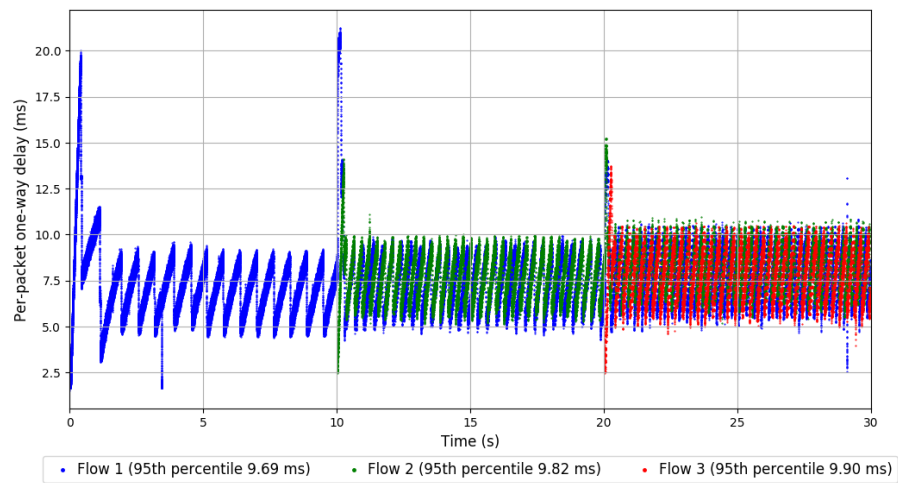
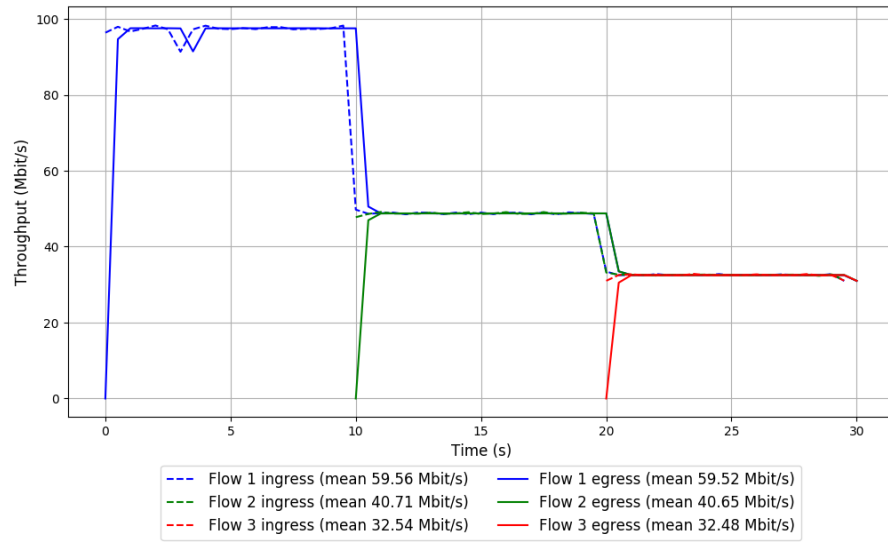


Run 1: Statistics of TCP Cubic

Start at: 2018-12-02 14:57:24
End at: 2018-12-02 14:57:54
Local clock offset: -0.594 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-12-02 16:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 9.777 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.52 Mbit/s
95th percentile per-packet one-way delay: 9.693 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 9.823 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 9.904 ms
Loss rate: 0.21%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-02 15:19:19

End at: 2018-12-02 15:19:49

Local clock offset: -1.314 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-12-02 16:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 10.290 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 10.397 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 10.193 ms

Loss rate: 0.16%

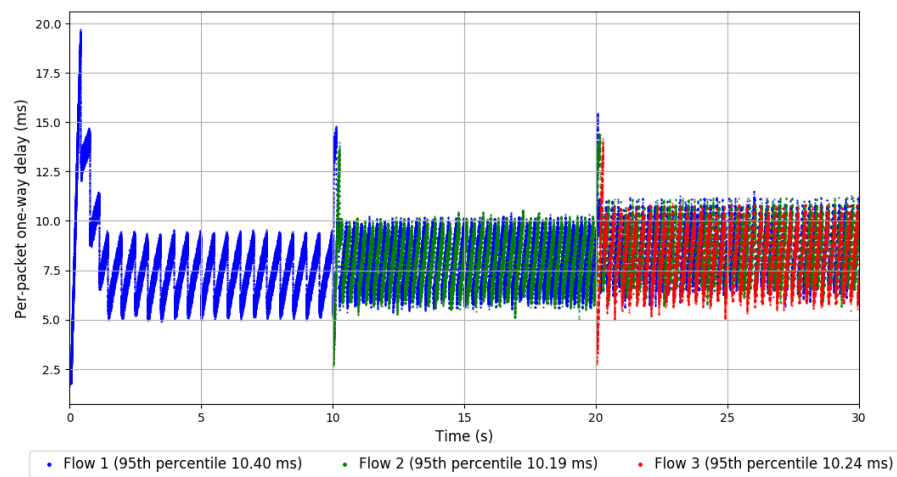
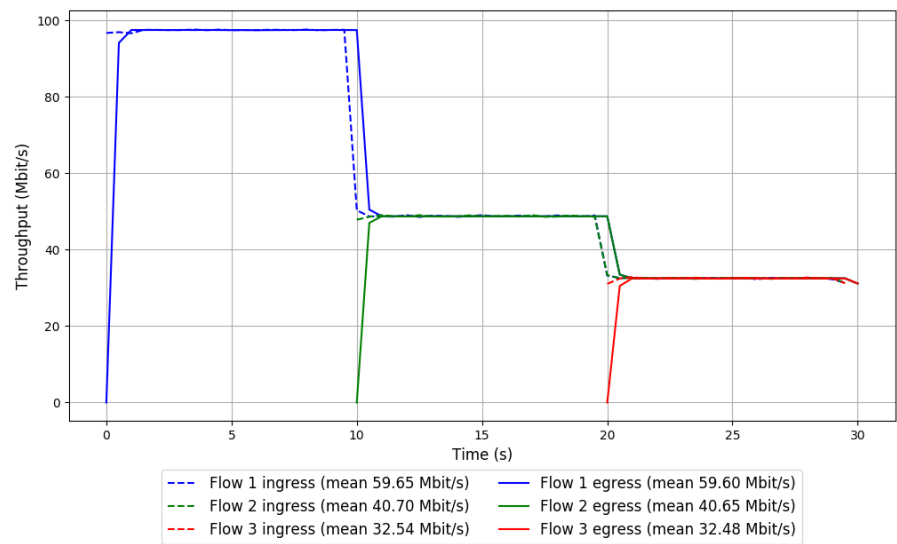
-- Flow 3:

Average throughput: 32.48 Mbit/s

95th percentile per-packet one-way delay: 10.239 ms

Loss rate: 0.21%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-12-02 15:41:13

End at: 2018-12-02 15:41:43

Local clock offset: -5.665 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-12-02 16:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 10.584 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 10.376 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 10.575 ms

Loss rate: 0.16%

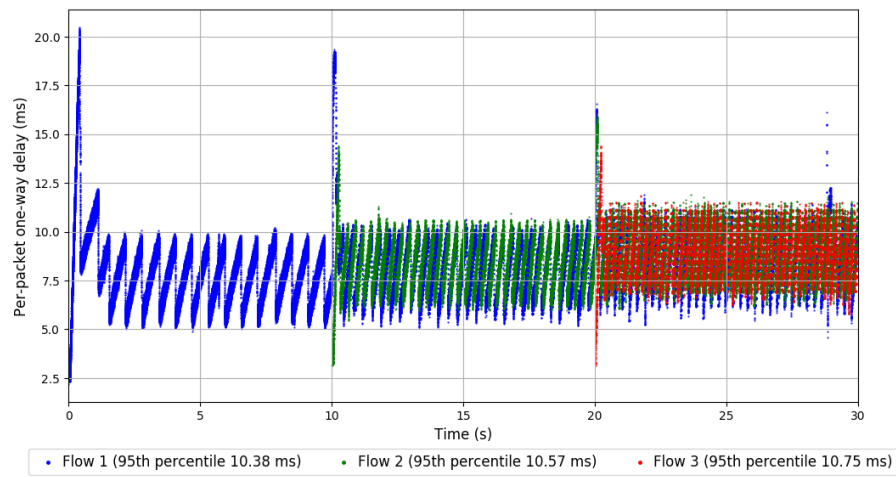
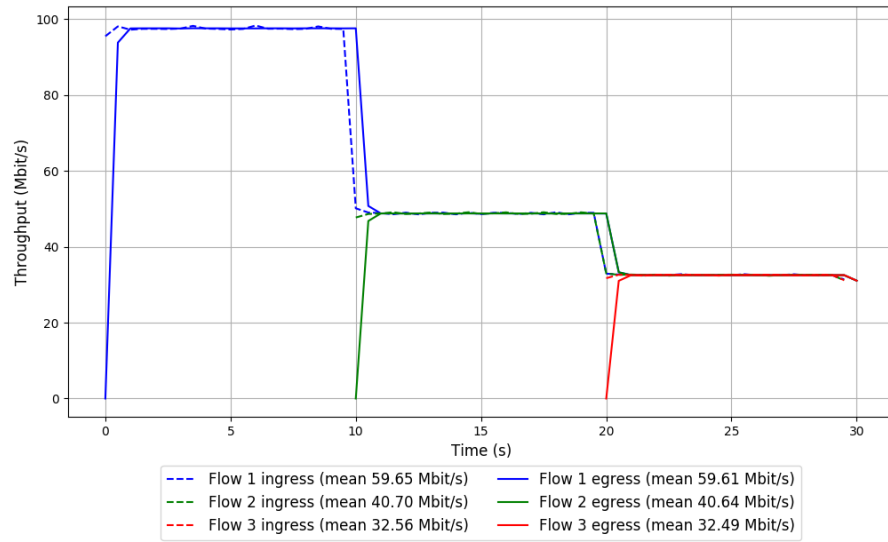
-- Flow 3:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 10.746 ms

Loss rate: 0.26%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-12-02 16:03:09

End at: 2018-12-02 16:03:39

Local clock offset: -6.889 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2018-12-02 16:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 10.638 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 10.834 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 10.347 ms

Loss rate: 0.13%

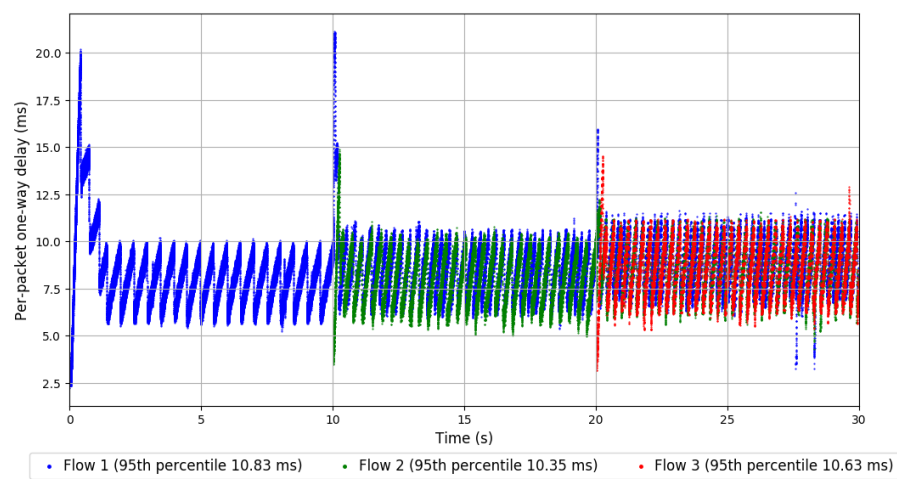
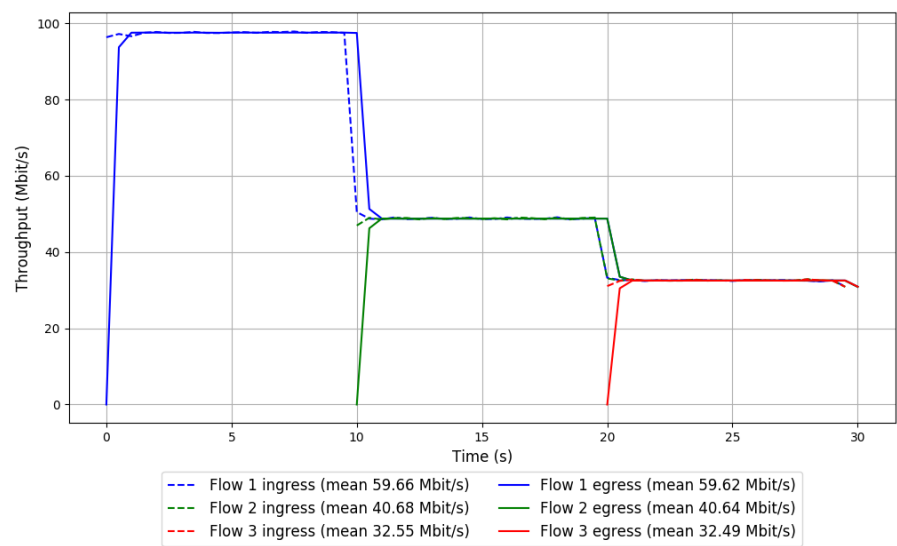
-- Flow 3:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 10.629 ms

Loss rate: 0.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-12-02 16:25:04

End at: 2018-12-02 16:25:34

Local clock offset: 0.412 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2018-12-02 16:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 10.006 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 10.181 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 9.655 ms

Loss rate: 0.13%

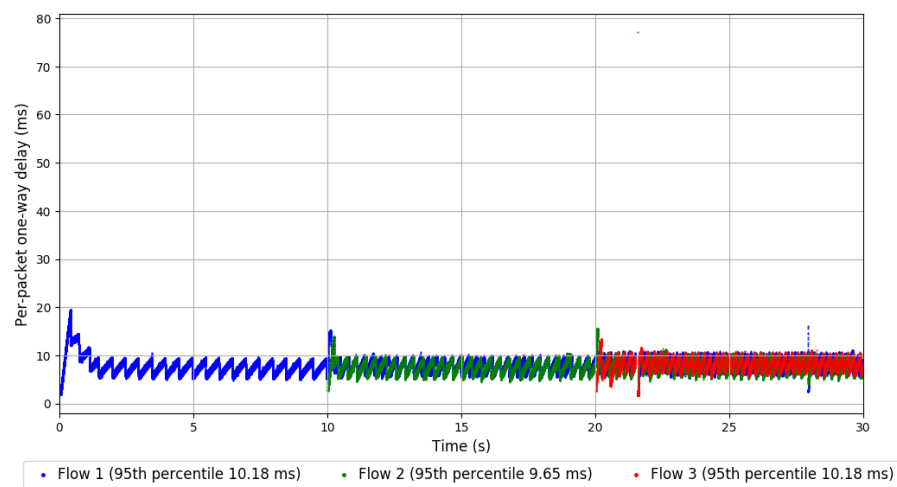
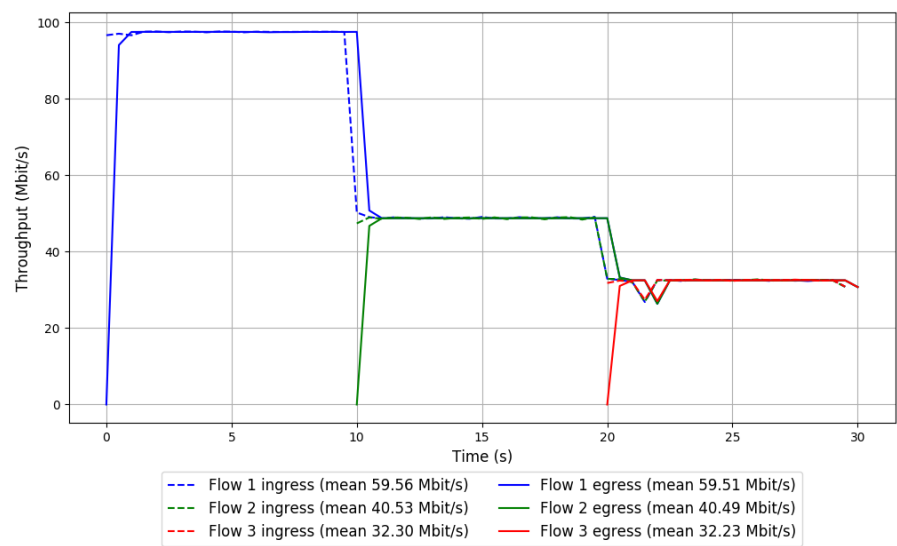
-- Flow 3:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 10.180 ms

Loss rate: 0.25%

Run 5: Report of TCP Cubic — Data Link

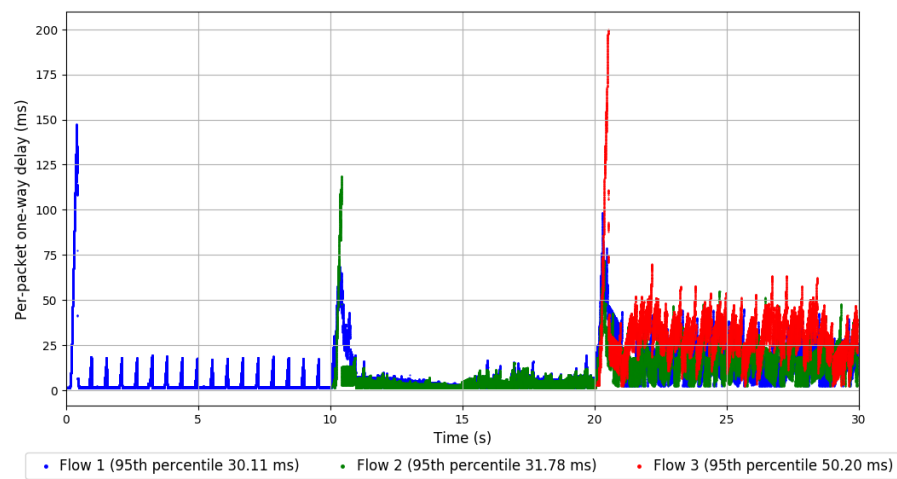
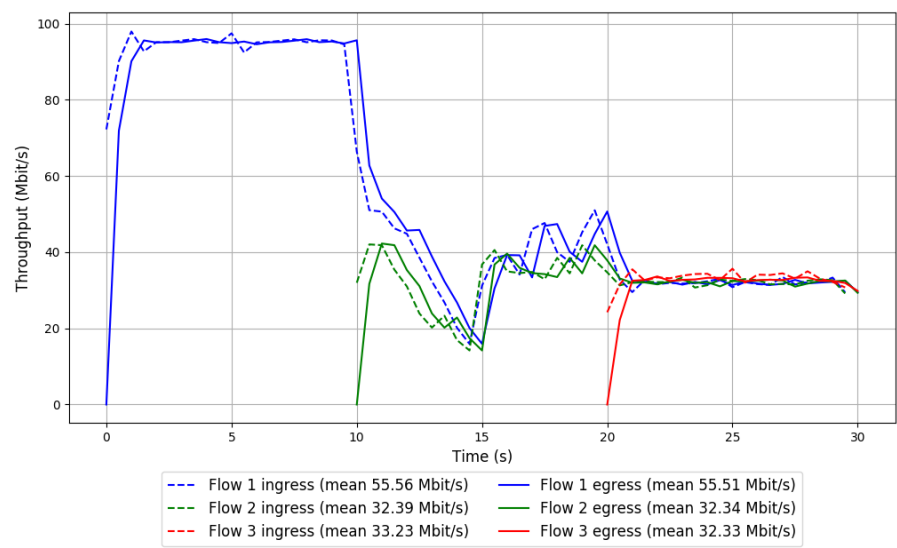


Run 1: Statistics of FillP

Start at: 2018-12-02 14:52:48
End at: 2018-12-02 14:53:18
Local clock offset: -0.271 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-12-02 16:34:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 40.454 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 55.51 Mbit/s
95th percentile per-packet one-way delay: 30.113 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 31.778 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 50.203 ms
Loss rate: 2.61%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-12-02 15:14:42

End at: 2018-12-02 15:15:12

Local clock offset: -0.465 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-12-02 16:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 53.027 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 53.56 Mbit/s

95th percentile per-packet one-way delay: 24.417 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 62.391 ms

Loss rate: 2.99%

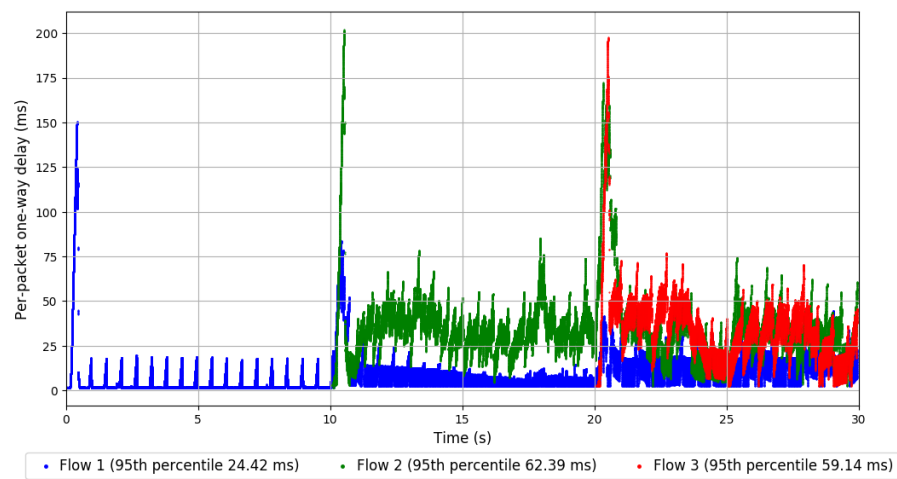
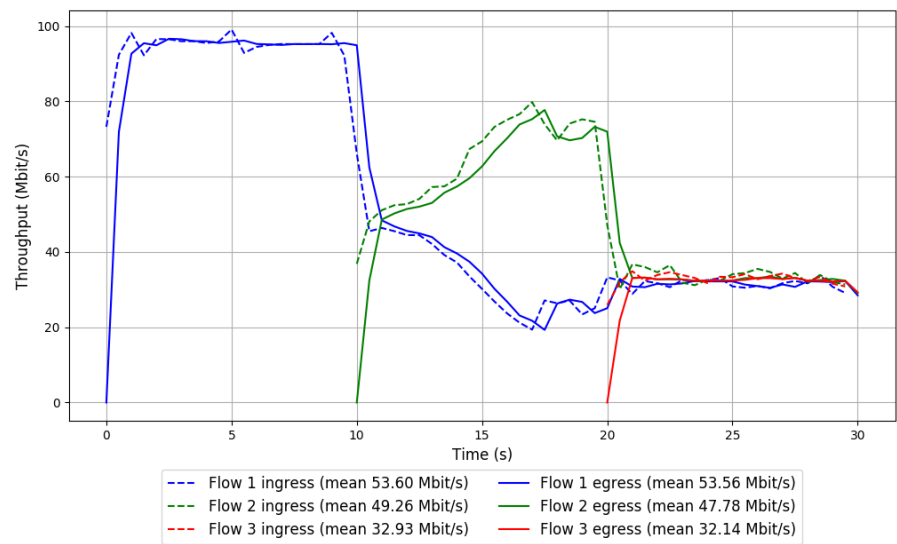
-- Flow 3:

Average throughput: 32.14 Mbit/s

95th percentile per-packet one-way delay: 59.139 ms

Loss rate: 2.44%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-12-02 15:36:36

End at: 2018-12-02 15:37:06

Local clock offset: -5.213 ms

Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-12-02 16:34:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 52.615 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 31.954 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 61.252 ms

Loss rate: 3.68%

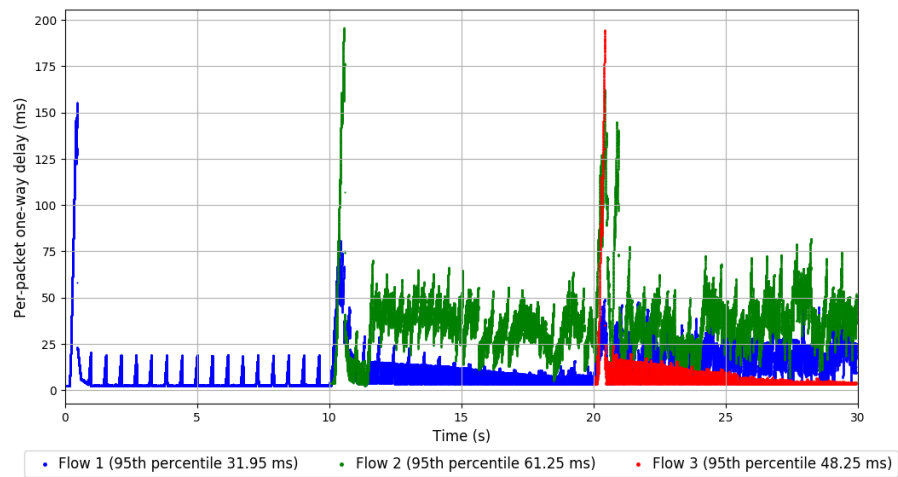
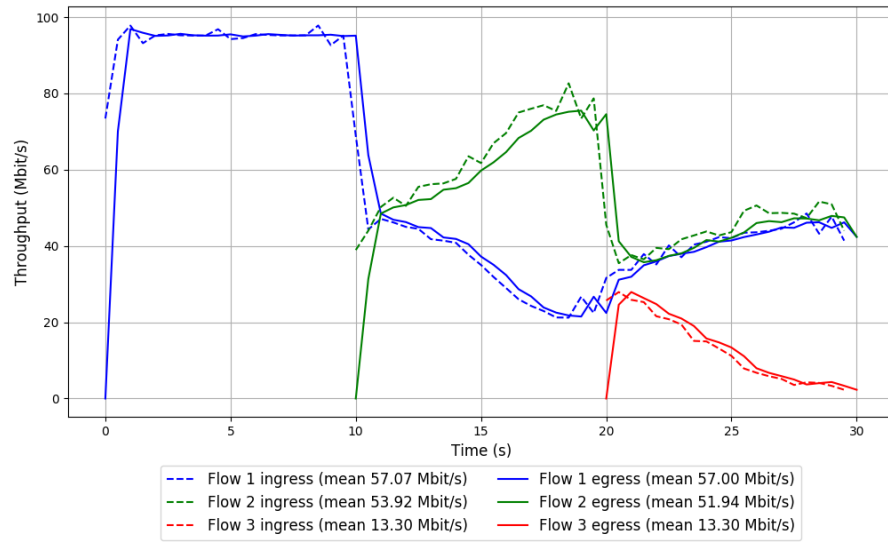
-- Flow 3:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 48.251 ms

Loss rate: 0.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-12-02 15:58:32

End at: 2018-12-02 15:59:02

Local clock offset: -6.646 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-12-02 16:34:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 38.017 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 36.969 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 29.900 ms

Loss rate: 0.26%

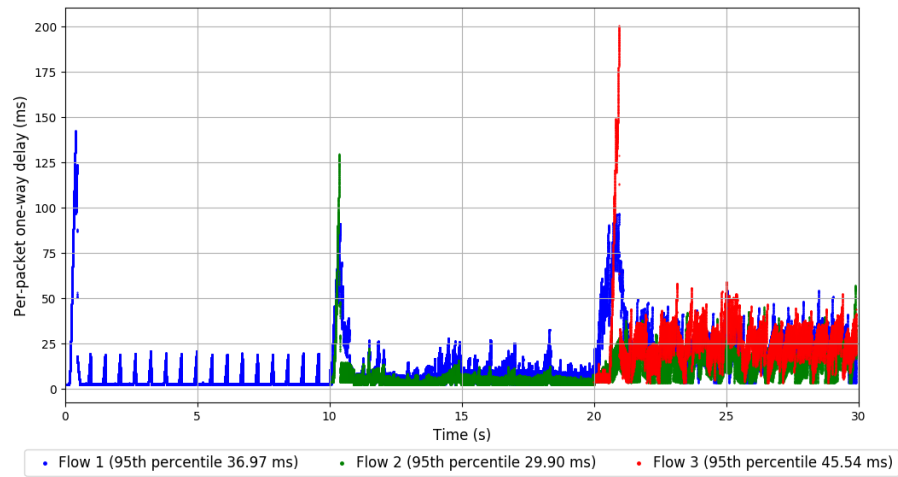
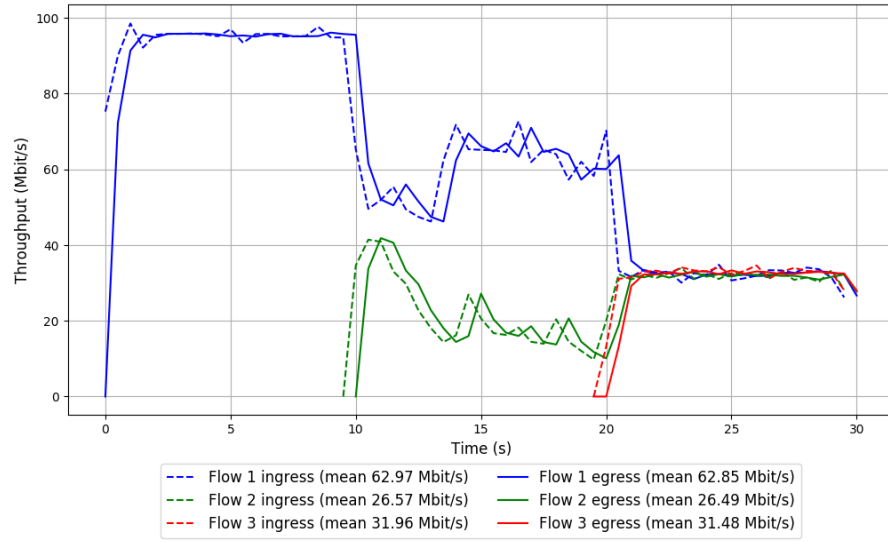
-- Flow 3:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 45.543 ms

Loss rate: 1.37%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-12-02 16:20:27

End at: 2018-12-02 16:20:57

Local clock offset: -4.088 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2018-12-02 16:35:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 52.966 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 52.51 Mbit/s

95th percentile per-packet one-way delay: 24.821 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 49.52 Mbit/s

95th percentile per-packet one-way delay: 58.932 ms

Loss rate: 2.87%

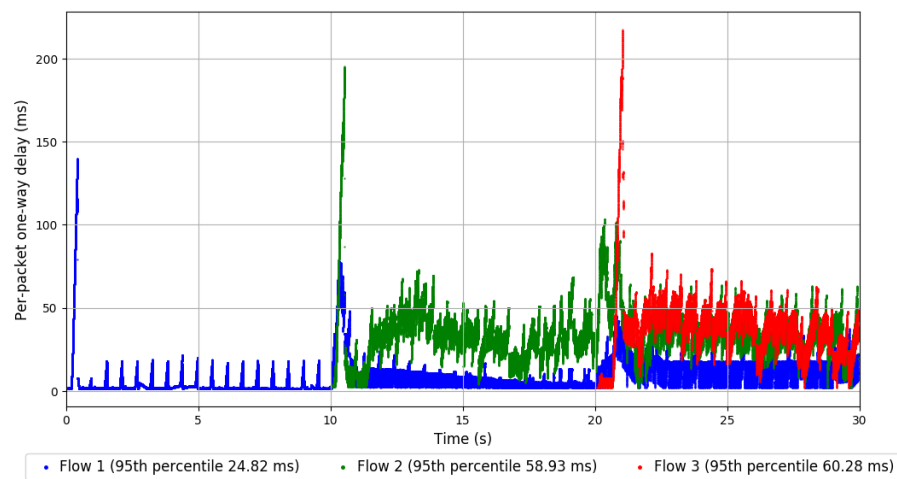
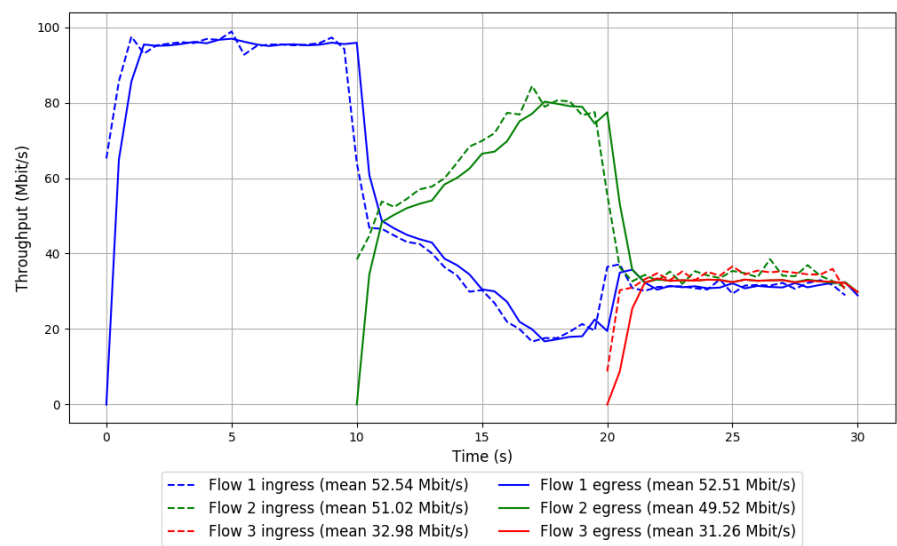
-- Flow 3:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 60.278 ms

Loss rate: 5.24%

Run 5: Report of FillP — Data Link

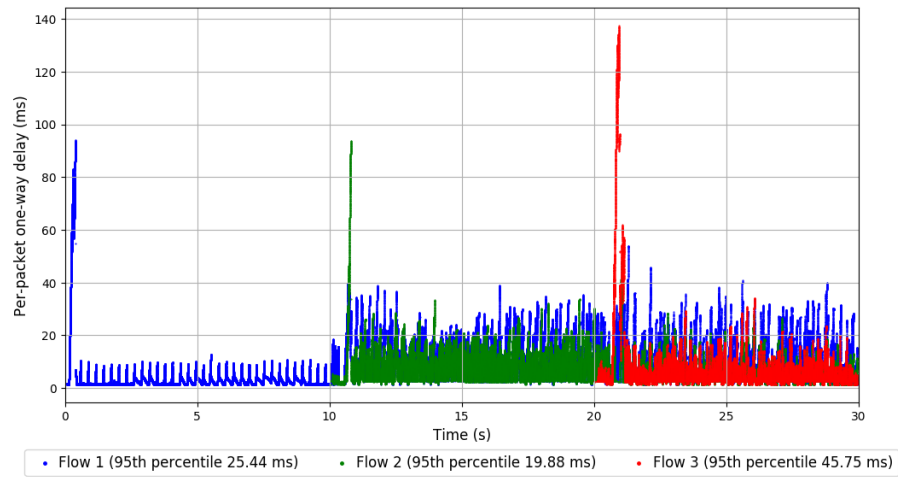
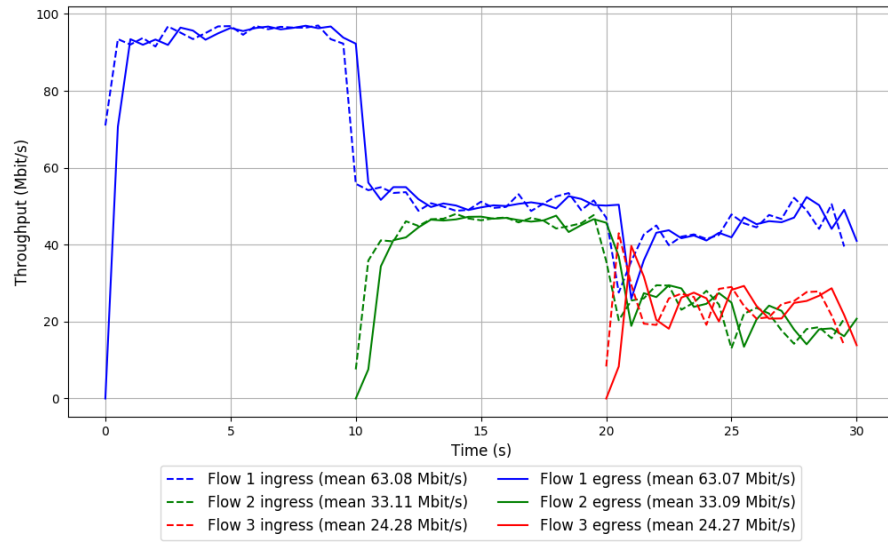


Run 1: Statistics of FillP-Sheep

Start at: 2018-12-02 14:41:12
End at: 2018-12-02 14:41:42
Local clock offset: -0.261 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-12-02 16:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 24.678 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 25.444 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 33.09 Mbit/s
95th percentile per-packet one-way delay: 19.877 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 45.753 ms
Loss rate: 0.03%

Run 1: Report of FillP-Sheep — Data Link

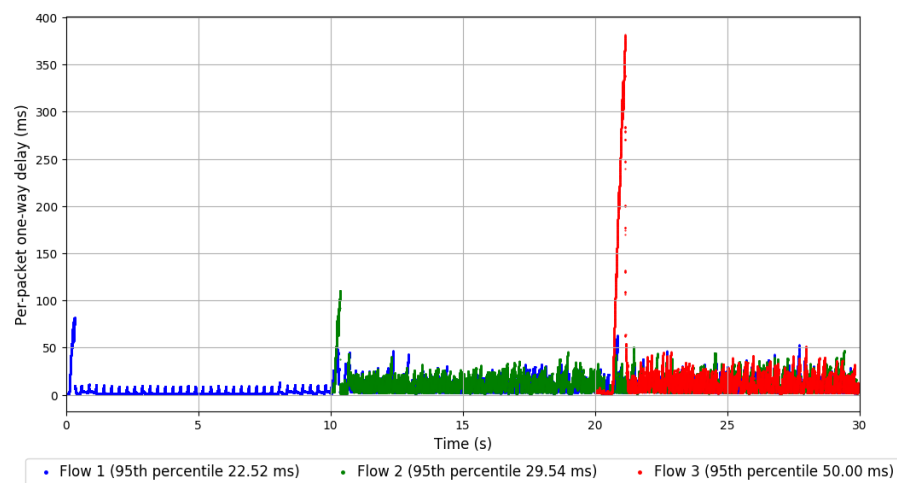
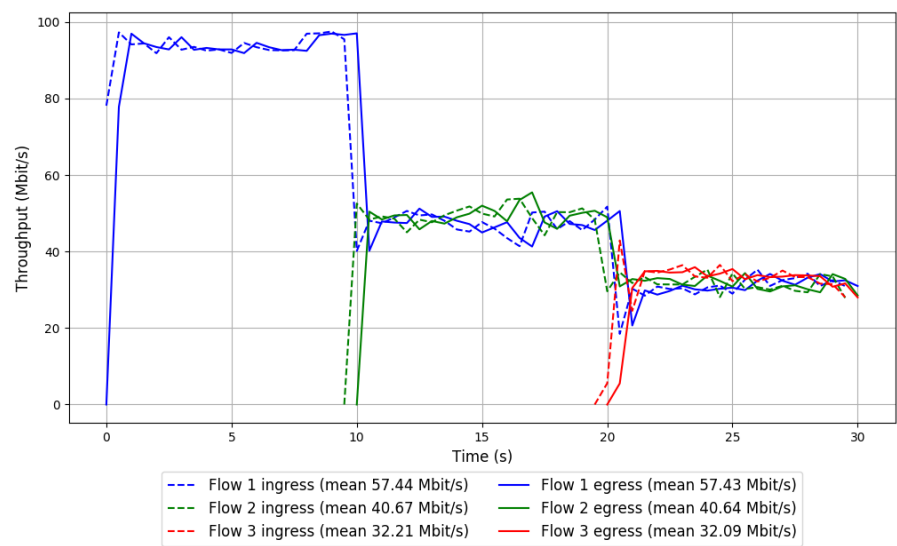


Run 2: Statistics of FillP-Sheep

Start at: 2018-12-02 15:03:06
End at: 2018-12-02 15:03:36
Local clock offset: -0.75 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-12-02 16:35:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 27.501 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 57.43 Mbit/s
95th percentile per-packet one-way delay: 22.516 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 29.541 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 50.002 ms
Loss rate: 0.44%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-12-02 15:25:00

End at: 2018-12-02 15:25:30

Local clock offset: -3.762 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-12-02 16:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 19.807 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 17.995 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 22.438 ms

Loss rate: 0.00%

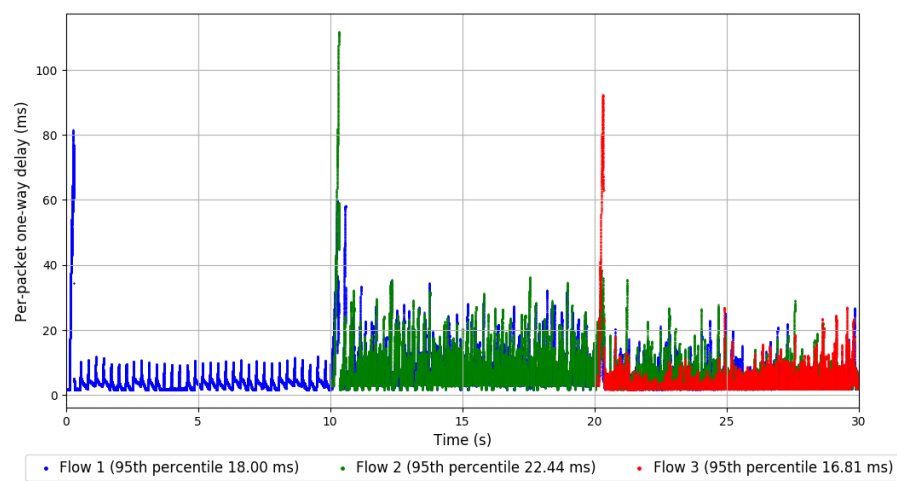
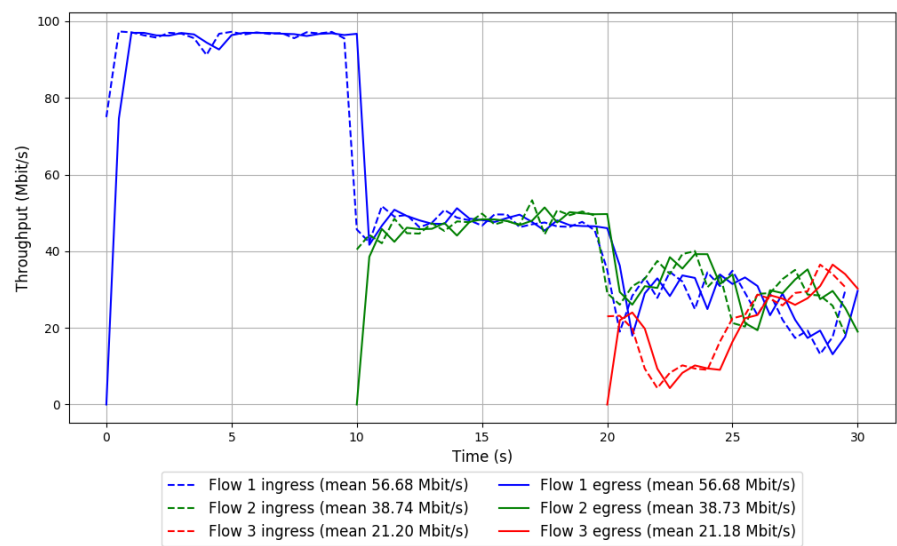
-- Flow 3:

Average throughput: 21.18 Mbit/s

95th percentile per-packet one-way delay: 16.814 ms

Loss rate: 0.14%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-12-02 15:46:54

End at: 2018-12-02 15:47:24

Local clock offset: -6.788 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-12-02 16:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 25.053 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 24.682 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 20.779 ms

Loss rate: 0.00%

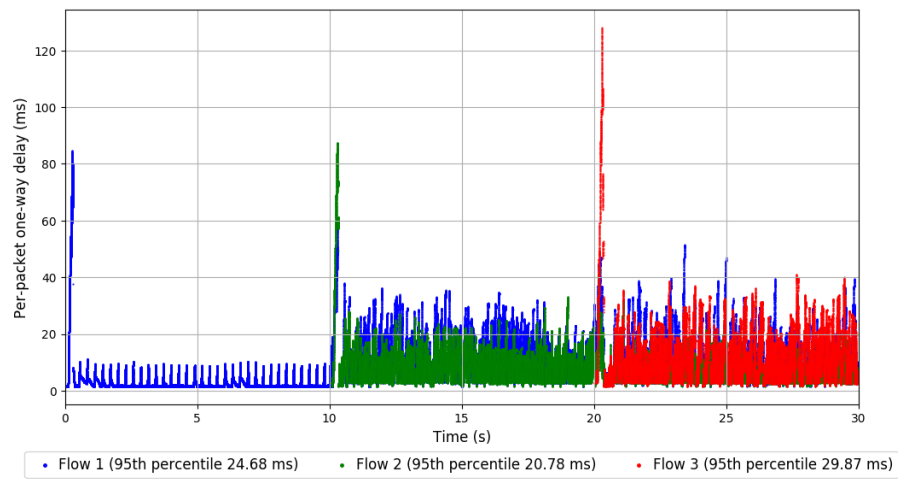
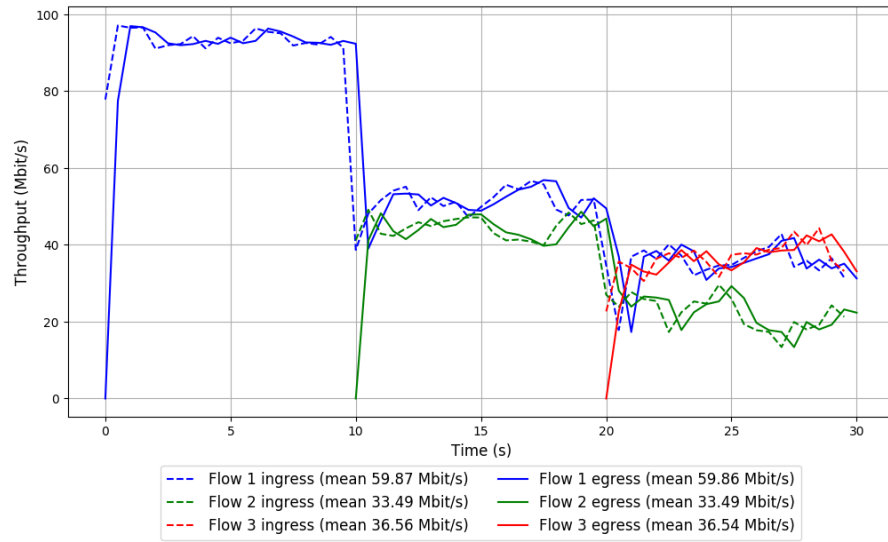
-- Flow 3:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 29.872 ms

Loss rate: 0.03%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-12-02 16:08:50

End at: 2018-12-02 16:09:20

Local clock offset: -7.876 ms

Remote clock offset: 0.454 ms

Below is generated by plot.py at 2018-12-02 16:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 18.237 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 56.60 Mbit/s

95th percentile per-packet one-way delay: 16.947 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.88 Mbit/s

95th percentile per-packet one-way delay: 19.295 ms

Loss rate: 0.07%

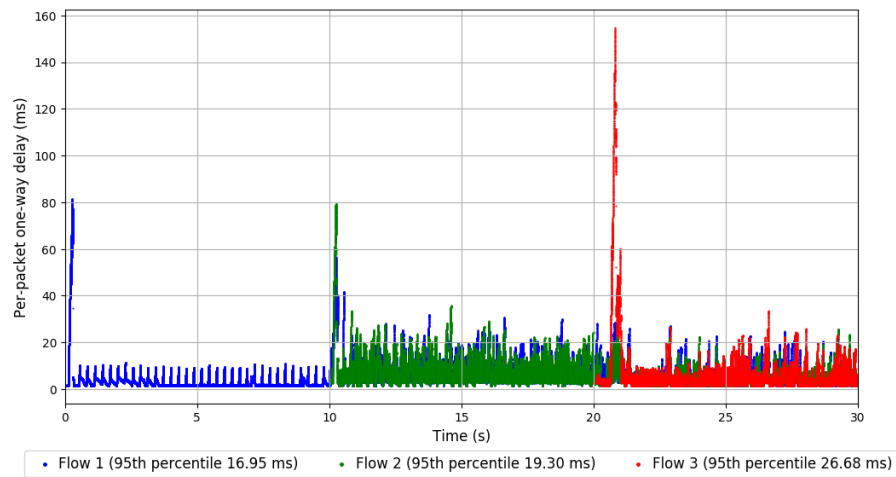
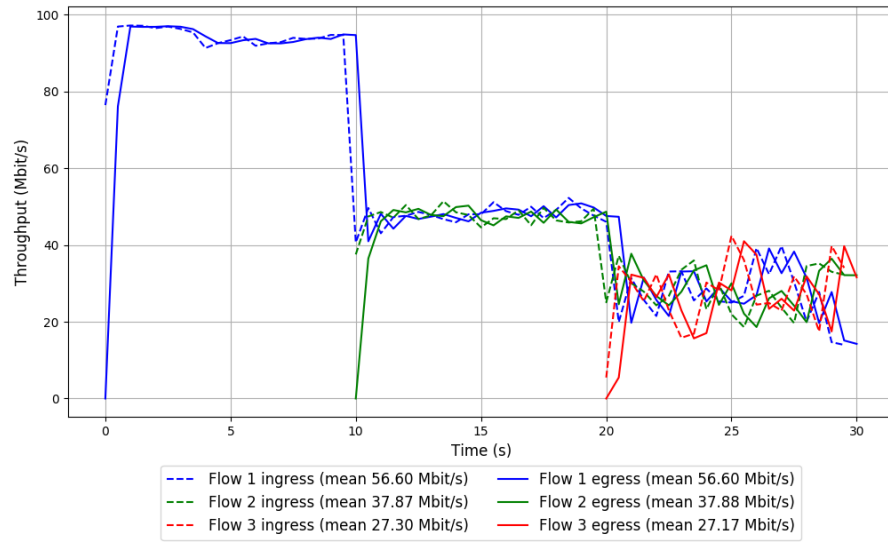
-- Flow 3:

Average throughput: 27.17 Mbit/s

95th percentile per-packet one-way delay: 26.680 ms

Loss rate: 0.48%

Run 5: Report of FillP-Sheep — Data Link

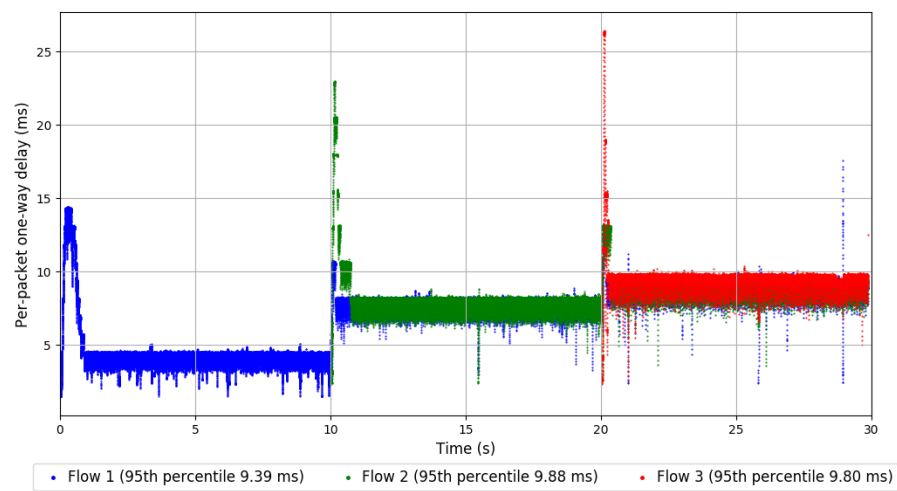
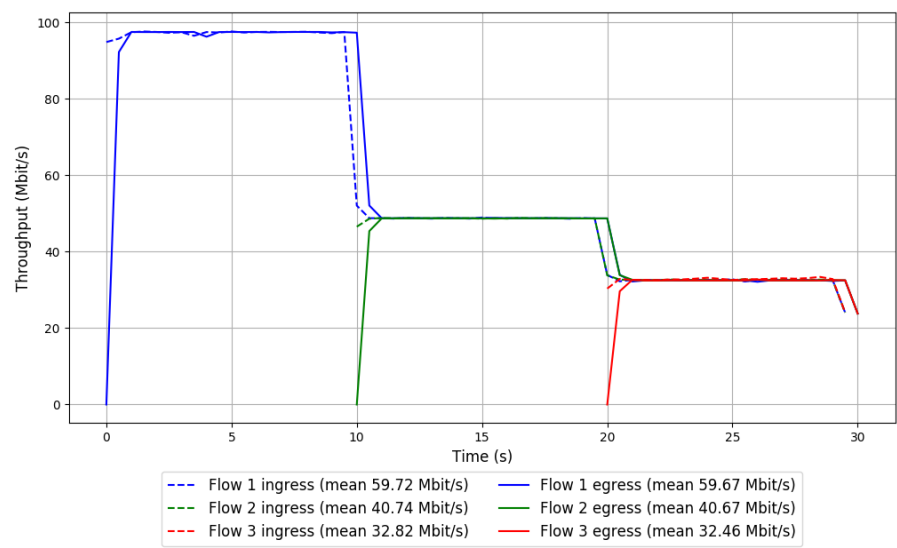


```
Run 1: Statistics of Indigo

Start at: 2018-12-02 14:59:43
End at: 2018-12-02 15:00:13
Local clock offset: -0.732 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-12-02 16:36:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 9.731 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 59.67 Mbit/s
95th percentile per-packet one-way delay: 9.387 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 9.876 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 9.797 ms
Loss rate: 1.11%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-12-02 15:21:37

End at: 2018-12-02 15:22:07

Local clock offset: -1.729 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-12-02 16:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 12.199 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 9.957 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.68 Mbit/s

95th percentile per-packet one-way delay: 12.555 ms

Loss rate: 2.36%

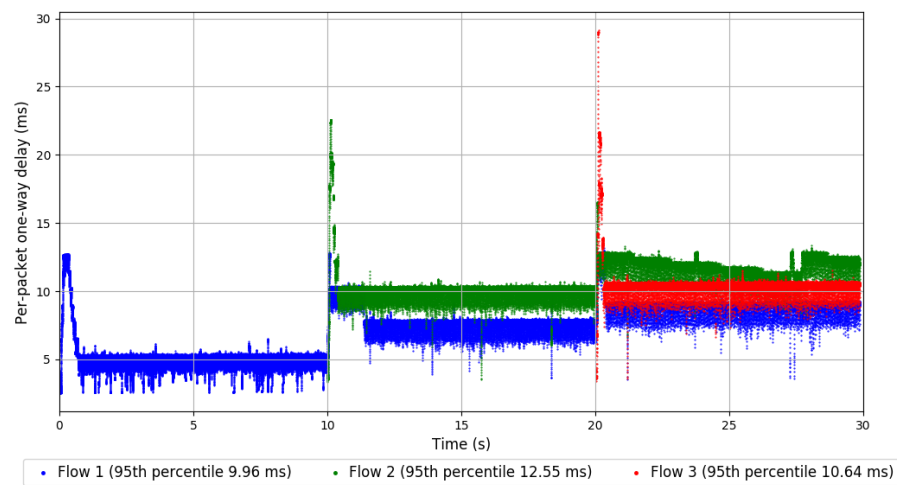
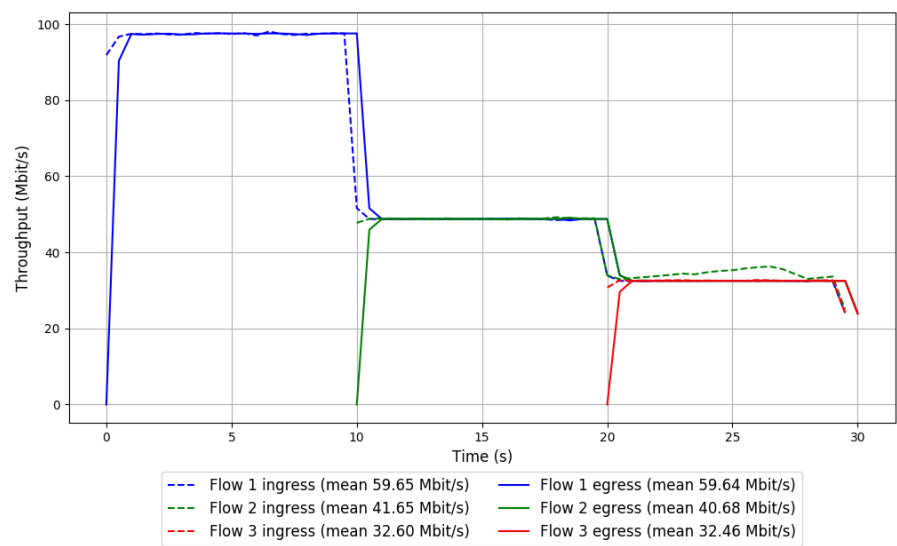
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 10.639 ms

Loss rate: 0.47%

Run 2: Report of Indigo — Data Link

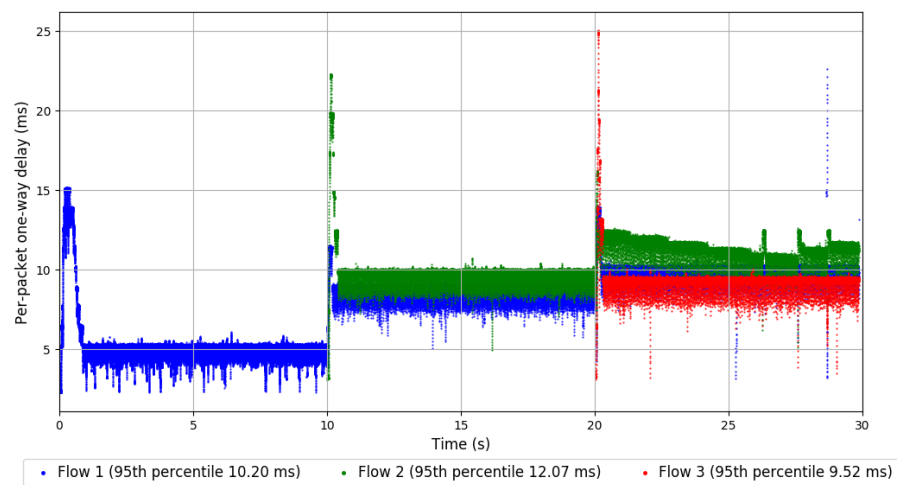
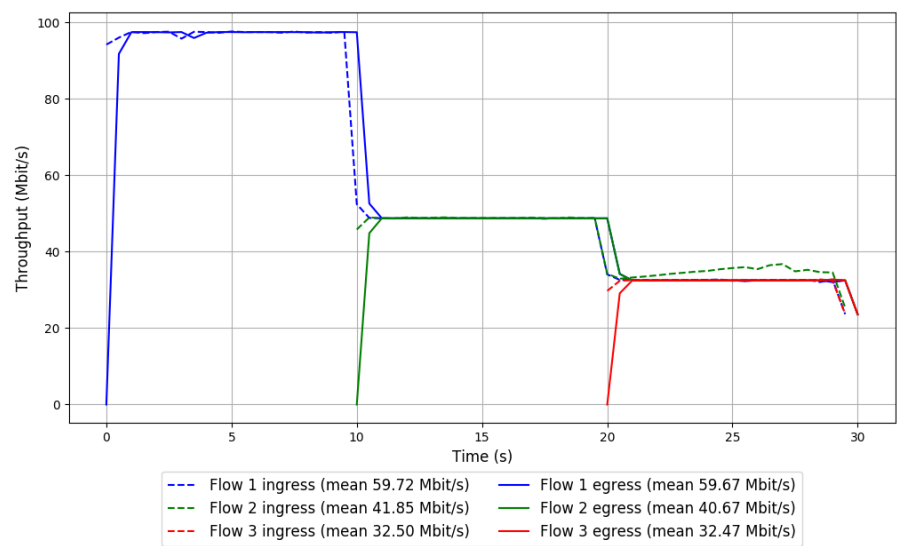


Run 3: Statistics of Indigo

Start at: 2018-12-02 15:43:31
End at: 2018-12-02 15:44:01
Local clock offset: -5.872 ms
Remote clock offset: 0.416 ms

Below is generated by plot.py at 2018-12-02 16:36:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 11.648 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 59.67 Mbit/s
95th percentile per-packet one-way delay: 10.204 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 12.074 ms
Loss rate: 2.82%
-- Flow 3:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 9.515 ms
Loss rate: 0.11%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-12-02 16:05:27

End at: 2018-12-02 16:05:57

Local clock offset: -6.972 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-12-02 16:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.36 Mbit/s

95th percentile per-packet one-way delay: 11.795 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 10.232 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 12.111 ms

Loss rate: 2.51%

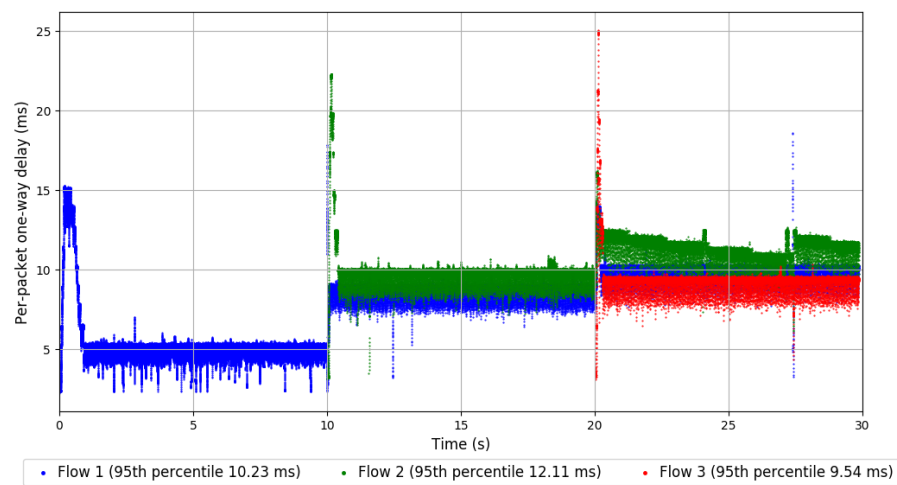
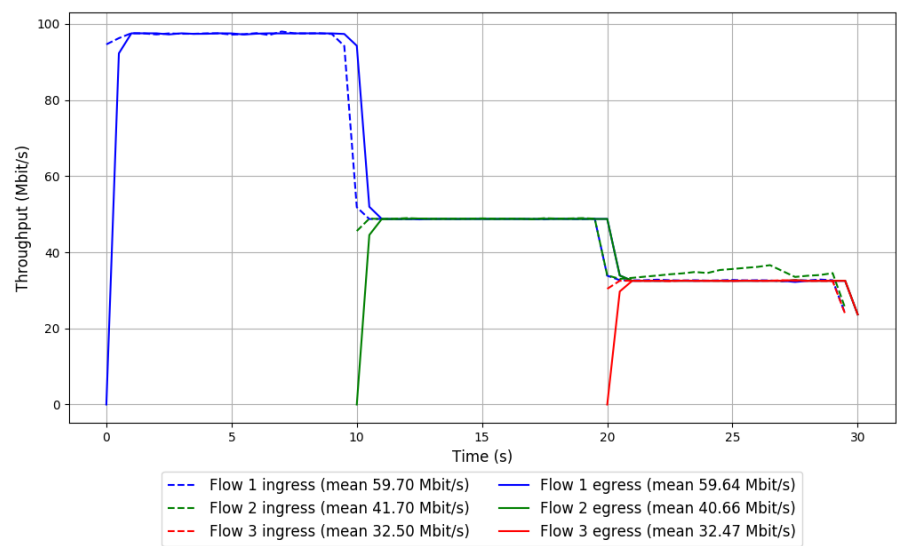
-- Flow 3:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 9.543 ms

Loss rate: 0.12%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-12-02 16:27:23

End at: 2018-12-02 16:27:53

Local clock offset: 1.259 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-12-02 16:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 10.395 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 59.72 Mbit/s

95th percentile per-packet one-way delay: 8.929 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 10.872 ms

Loss rate: 2.84%

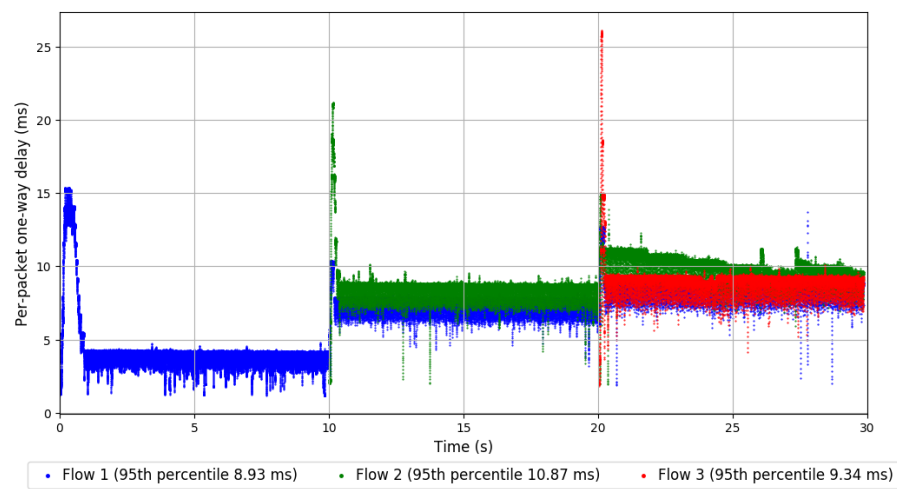
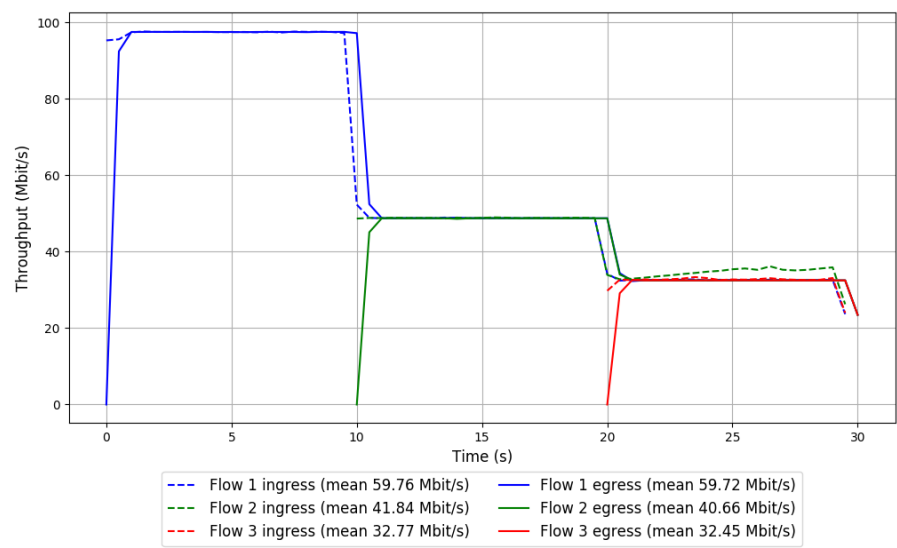
-- Flow 3:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 9.337 ms

Loss rate: 1.02%

Run 5: Report of Indigo — Data Link

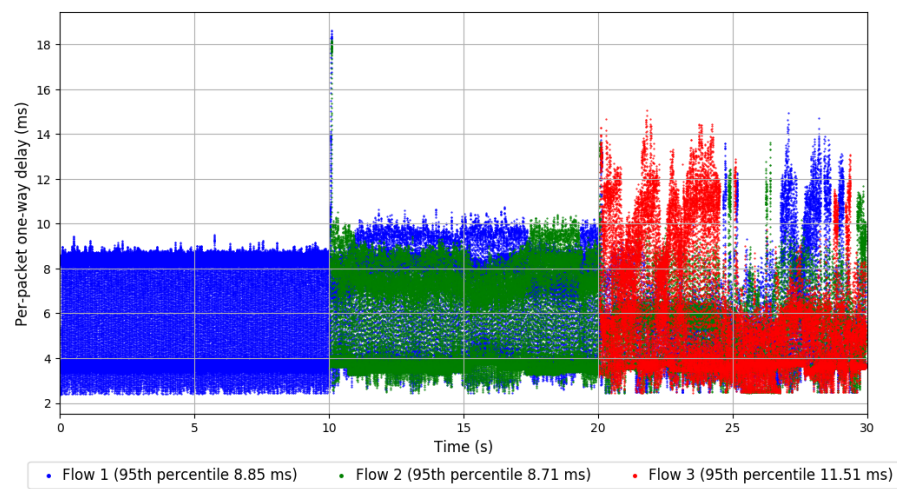
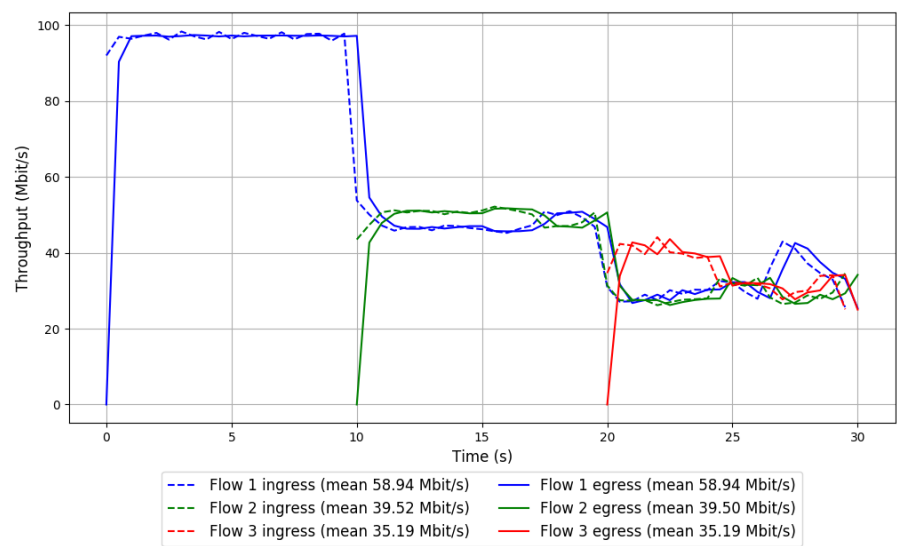


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-12-02 14:50:33
End at: 2018-12-02 14:51:04
Local clock offset: 0.715 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-12-02 16:36:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 9.269 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.94 Mbit/s
95th percentile per-packet one-way delay: 8.848 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 8.714 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 11.506 ms
Loss rate: 0.03%

Run 1: Report of Indigo-96d2da3 — Data Link



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-12-02 15:12:27

End at: 2018-12-02 15:12:57

Local clock offset: -0.6 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-12-02 16:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 17.041 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 57.13 Mbit/s

95th percentile per-packet one-way delay: 7.871 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 7.668 ms

Loss rate: 0.02%

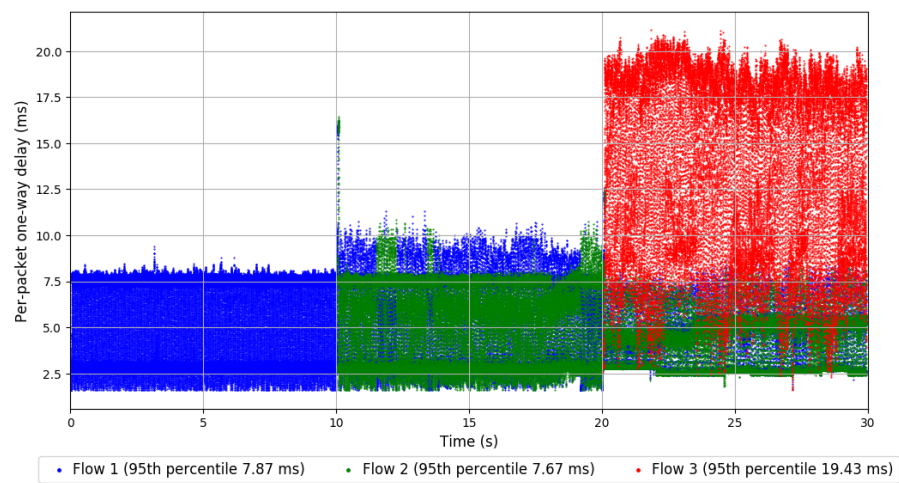
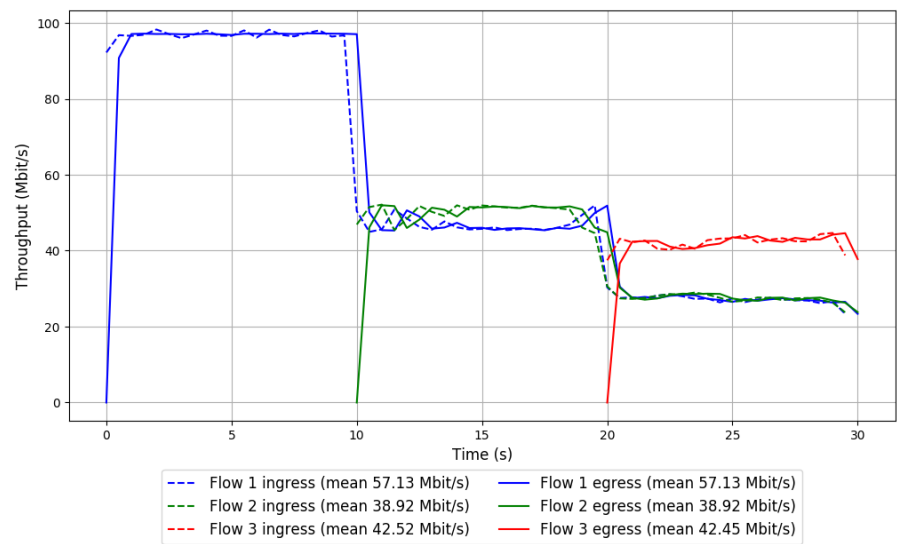
-- Flow 3:

Average throughput: 42.45 Mbit/s

95th percentile per-packet one-way delay: 19.430 ms

Loss rate: 0.20%

Run 2: Report of Indigo-96d2da3 — Data Link



Run 3: Statistics of Indigo-96d2da3

Start at: 2018-12-02 15:34:21

End at: 2018-12-02 15:34:51

Local clock offset: -5.7 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-12-02 16:37:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 22.075 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 10.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 11.243 ms

Loss rate: 0.05%

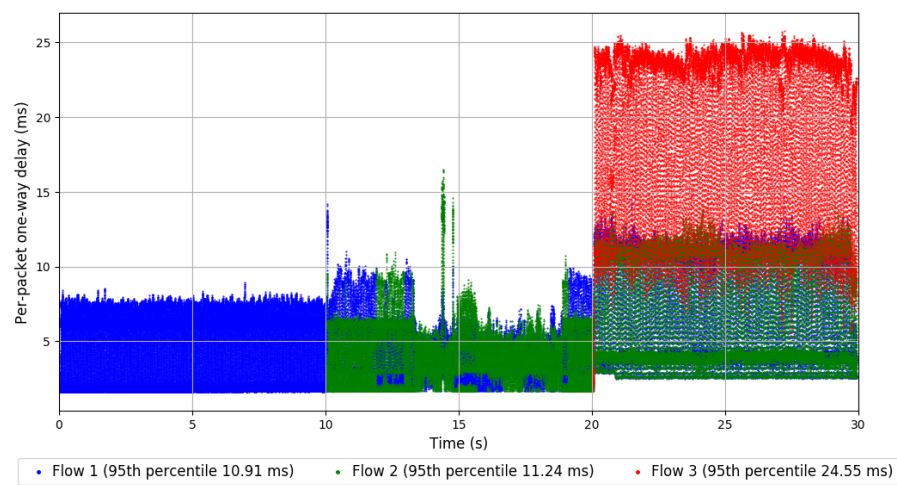
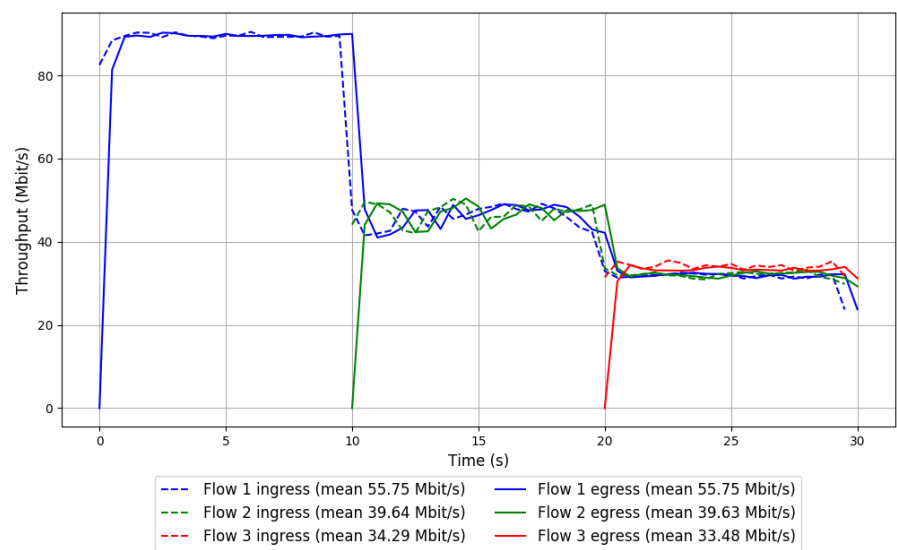
-- Flow 3:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 24.552 ms

Loss rate: 2.34%

Run 3: Report of Indigo-96d2da3 — Data Link



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-12-02 15:56:17

End at: 2018-12-02 15:56:47

Local clock offset: -6.61 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2018-12-02 16:37:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 9.164 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 57.11 Mbit/s

95th percentile per-packet one-way delay: 9.043 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 7.865 ms

Loss rate: 0.01%

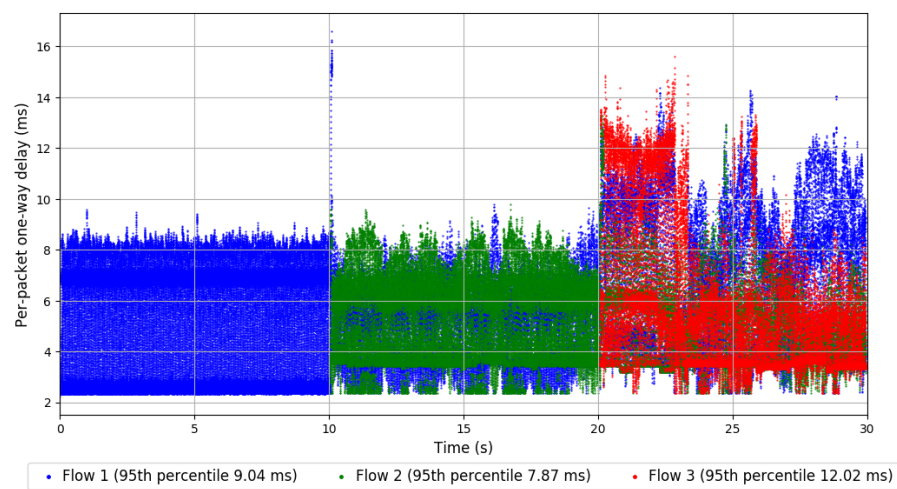
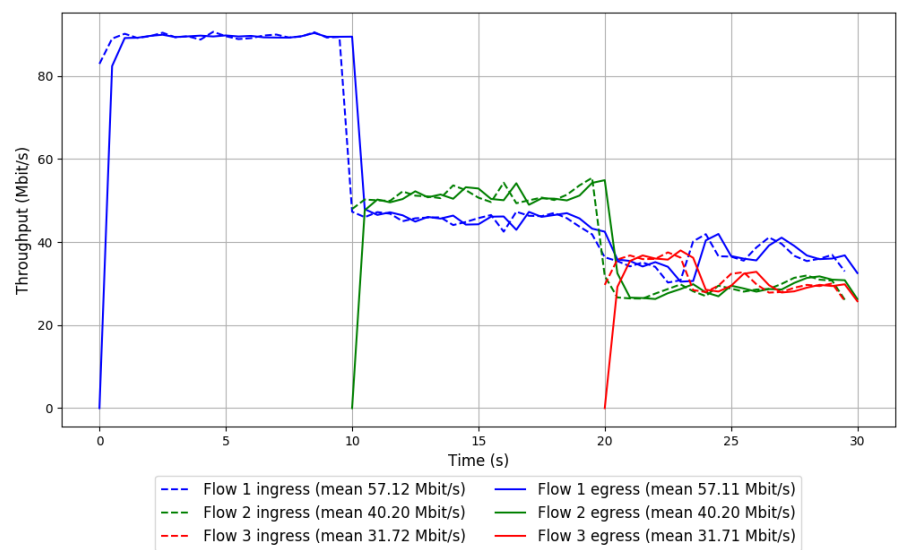
-- Flow 3:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 12.021 ms

Loss rate: 0.07%

Run 4: Report of Indigo-96d2da3 — Data Link



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-12-02 16:18:12

End at: 2018-12-02 16:18:42

Local clock offset: -7.754 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2018-12-02 16:37:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.56 Mbit/s

95th percentile per-packet one-way delay: 12.135 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 7.812 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 44.63 Mbit/s

95th percentile per-packet one-way delay: 13.299 ms

Loss rate: 0.03%

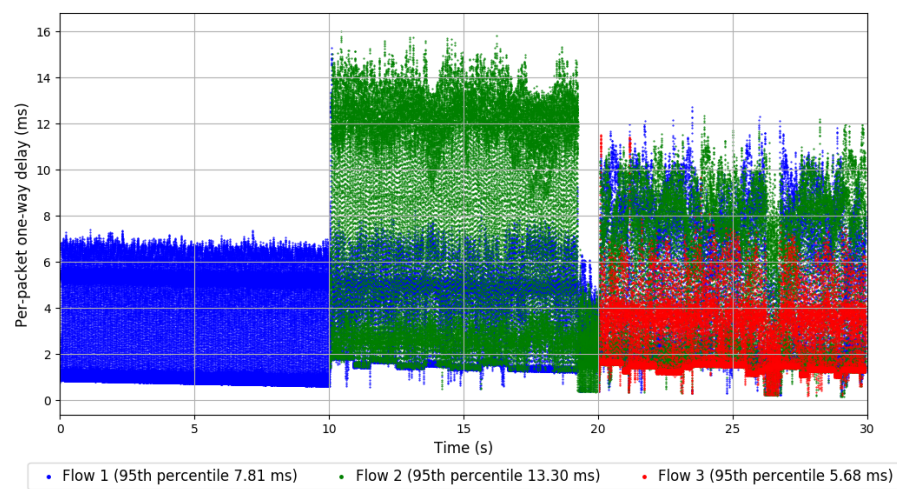
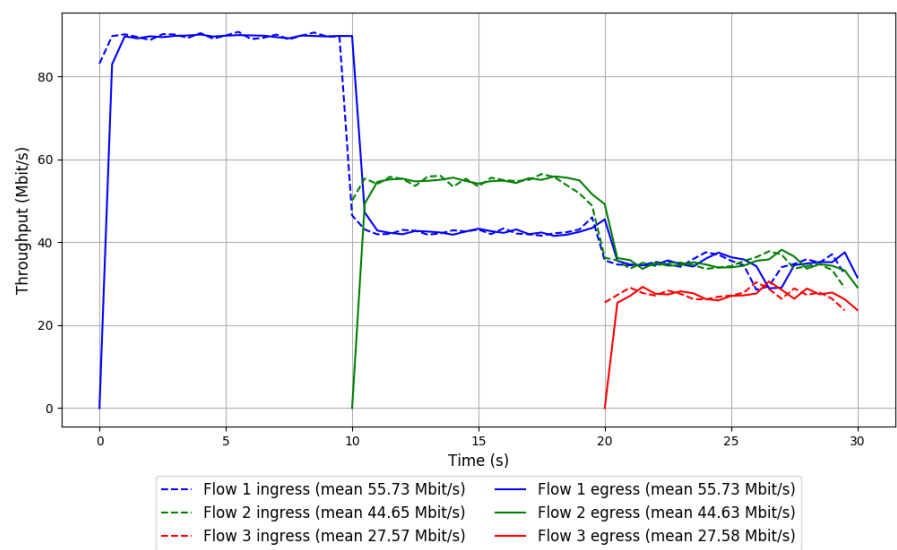
-- Flow 3:

Average throughput: 27.58 Mbit/s

95th percentile per-packet one-way delay: 5.676 ms

Loss rate: 0.03%

Run 5: Report of Indigo-96d2da3 — Data Link

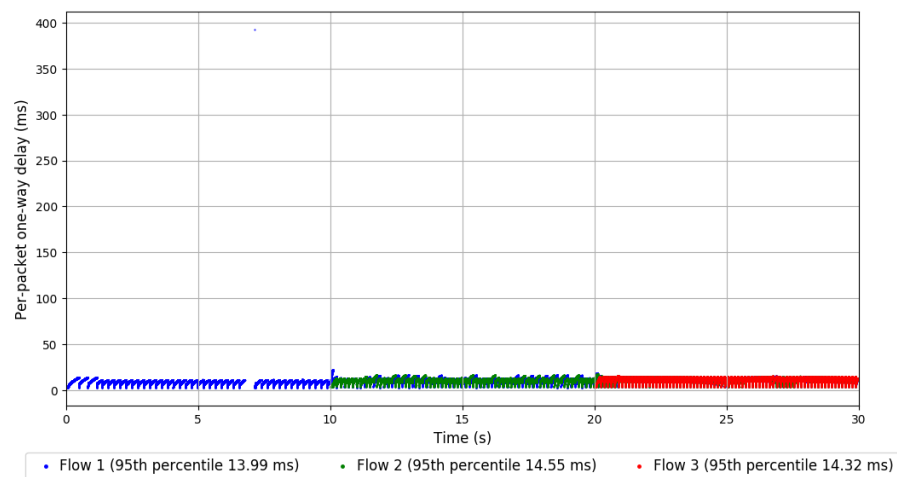
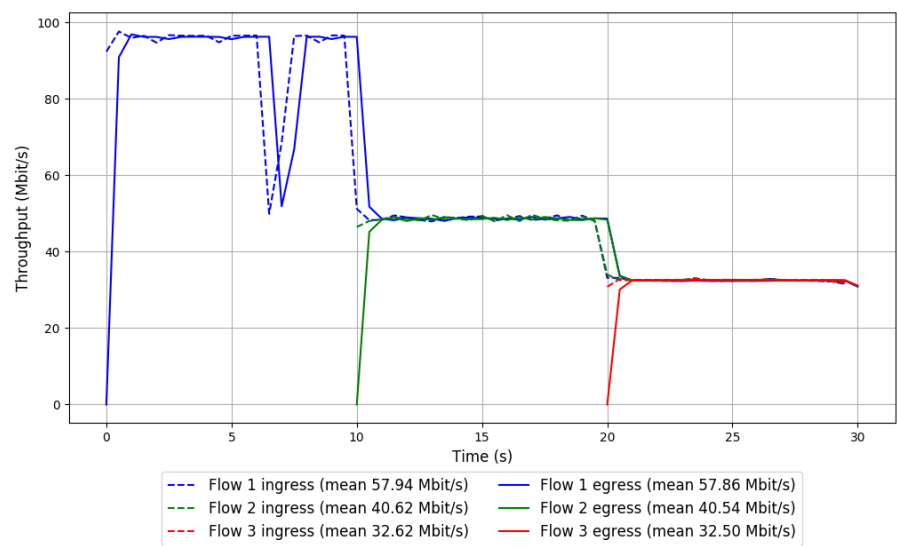


```
Run 1: Statistics of LEDBAT

Start at: 2018-12-02 14:56:14
End at: 2018-12-02 14:56:44
Local clock offset: 0.214 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-12-02 16:37:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 14.190 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.86 Mbit/s
95th percentile per-packet one-way delay: 13.988 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 14.546 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 14.323 ms
Loss rate: 0.41%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-12-02 15:18:09

End at: 2018-12-02 15:18:39

Local clock offset: 0.098 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-12-02 16:37:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 14.971 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 14.724 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 15.310 ms

Loss rate: 0.21%

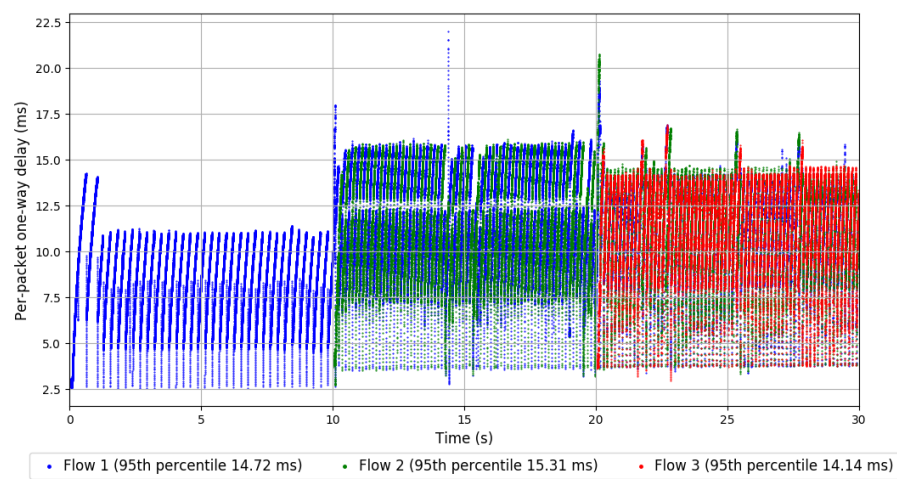
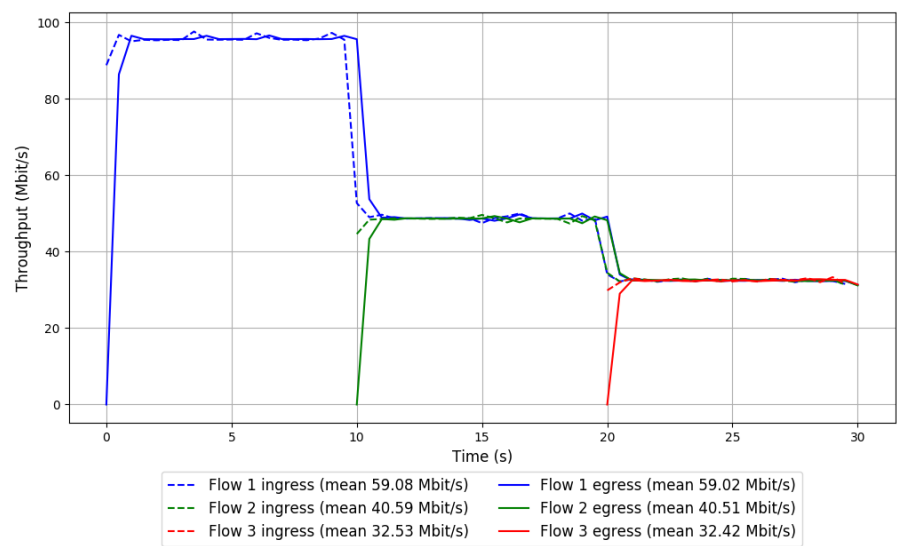
-- Flow 3:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 14.145 ms

Loss rate: 0.38%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-12-02 15:40:02

End at: 2018-12-02 15:40:32

Local clock offset: -6.327 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-12-02 16:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.83 Mbit/s

95th percentile per-packet one-way delay: 13.649 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 13.480 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 13.838 ms

Loss rate: 0.20%

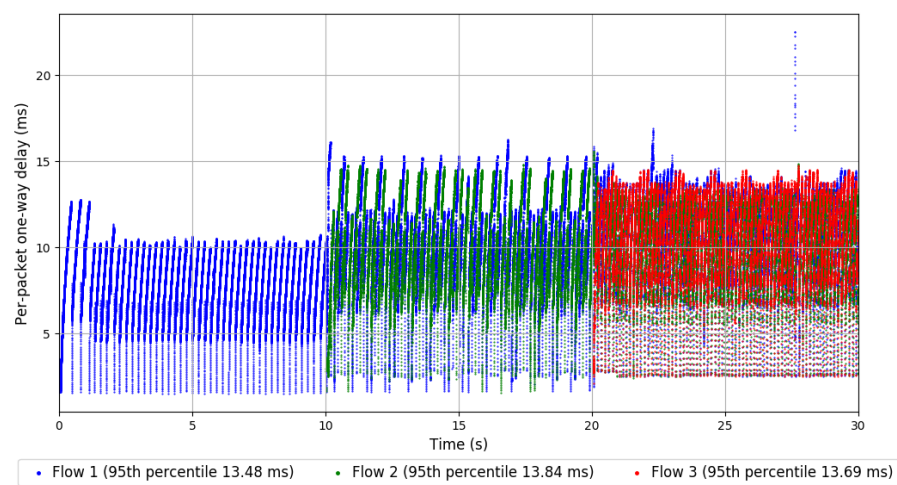
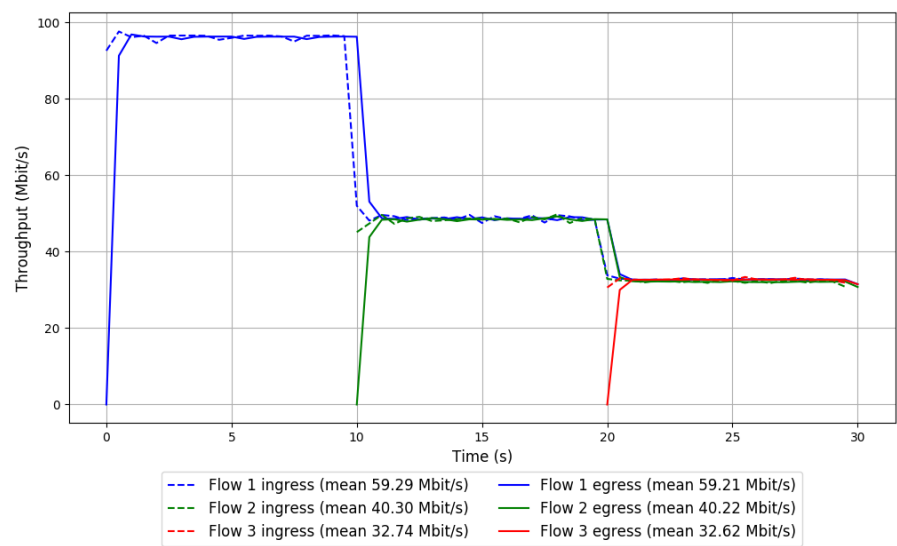
-- Flow 3:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 13.693 ms

Loss rate: 0.40%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-12-02 16:01:58

End at: 2018-12-02 16:02:28

Local clock offset: -7.644 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-12-02 16:38:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 13.515 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 13.326 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 13.926 ms

Loss rate: 0.25%

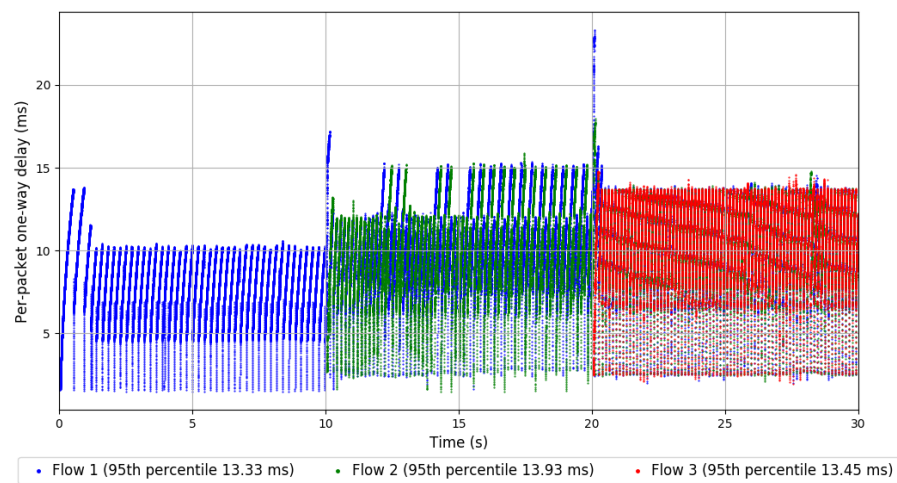
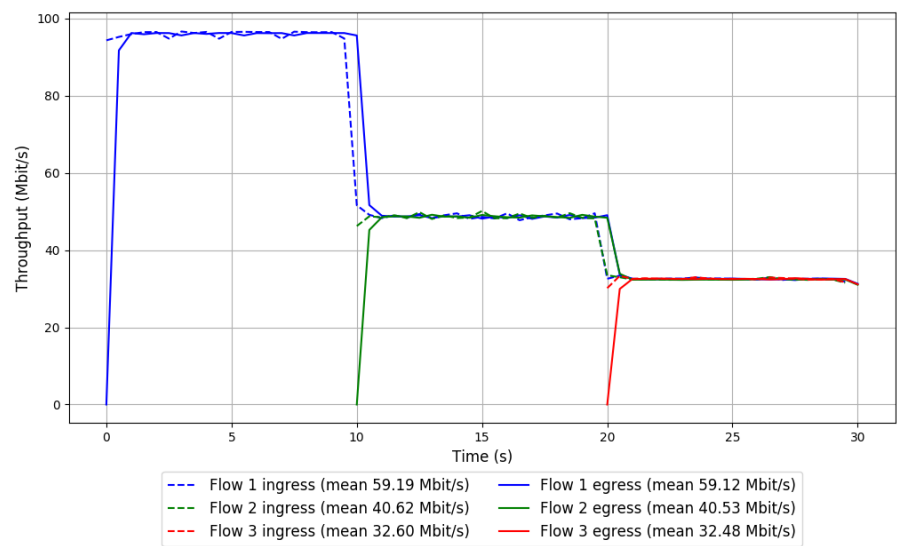
-- Flow 3:

Average throughput: 32.48 Mbit/s

95th percentile per-packet one-way delay: 13.446 ms

Loss rate: 0.41%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-02 16:23:54

End at: 2018-12-02 16:24:24

Local clock offset: -0.463 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2018-12-02 16:38:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 13.621 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 58.73 Mbit/s

95th percentile per-packet one-way delay: 13.129 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 14.187 ms

Loss rate: 0.25%

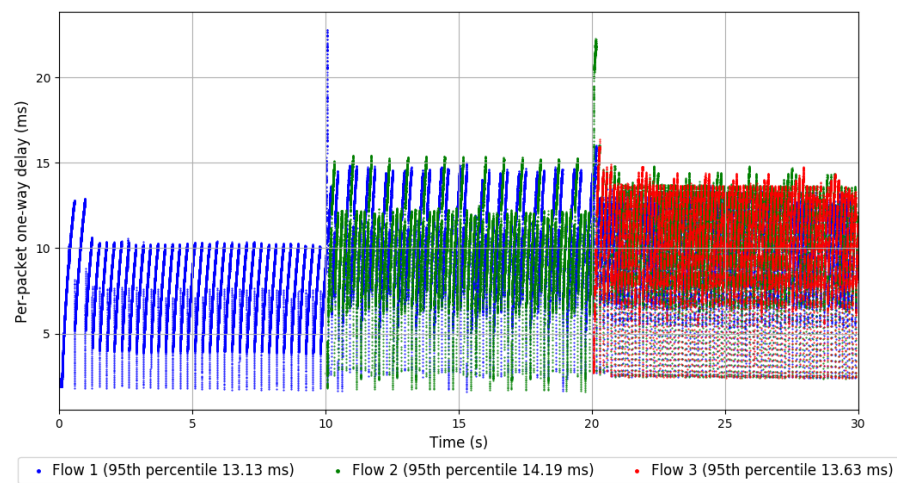
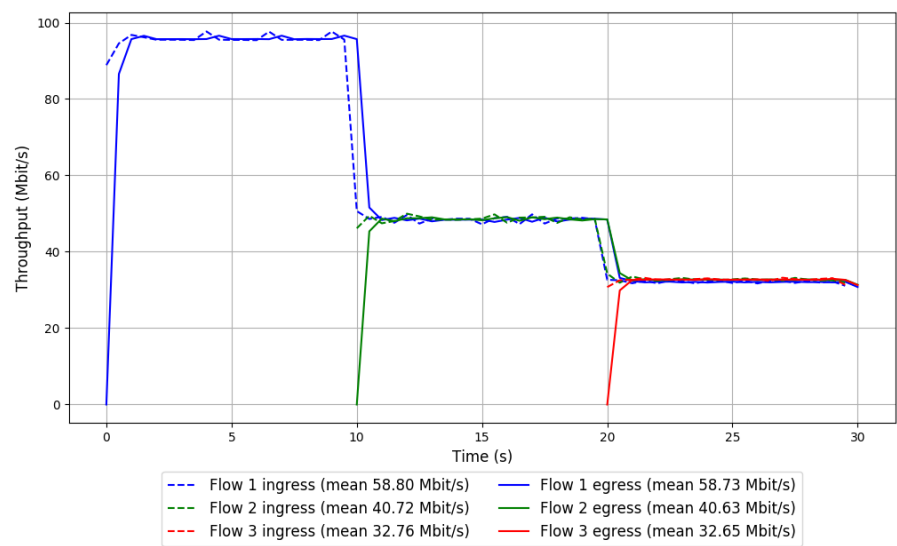
-- Flow 3:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 13.635 ms

Loss rate: 0.40%

Run 5: Report of LEDBAT — Data Link

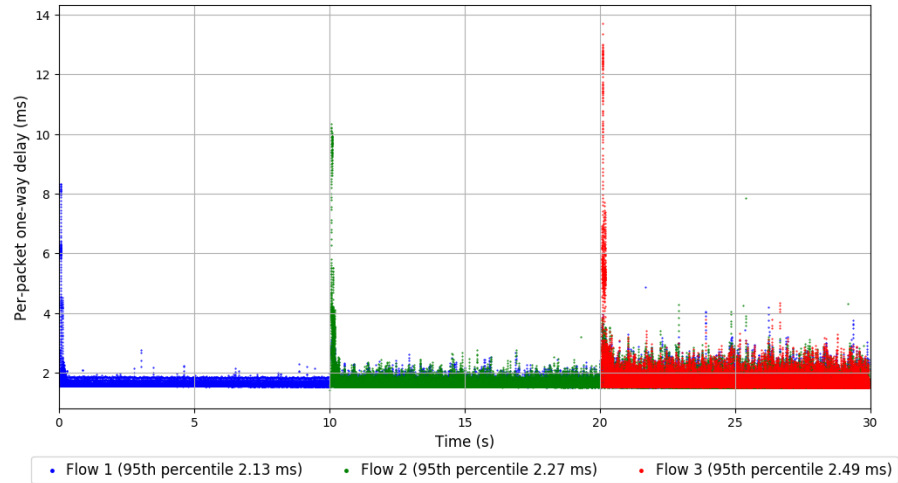
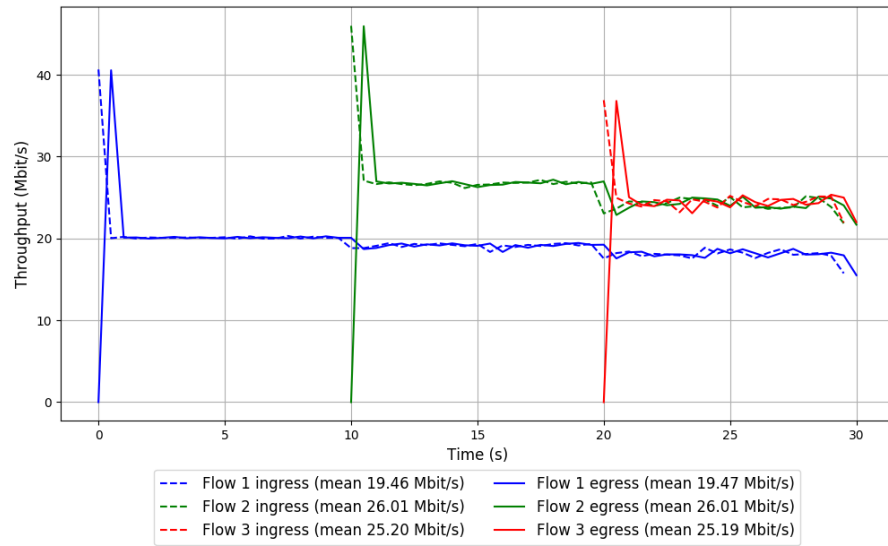


Run 1: Statistics of Indigo-Muses

Start at: 2018-12-02 14:40:05
End at: 2018-12-02 14:40:35
Local clock offset: -0.366 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-12-02 16:38:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.12 Mbit/s
95th percentile per-packet one-way delay: 2.267 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 19.47 Mbit/s
95th percentile per-packet one-way delay: 2.131 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 2.269 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 2.488 ms
Loss rate: 0.01%

Run 1: Report of Indigo-Muses — Data Link

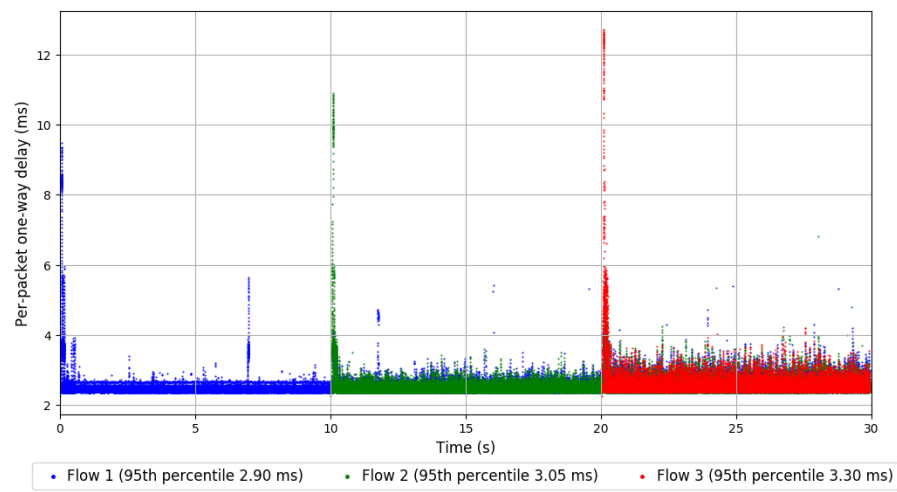
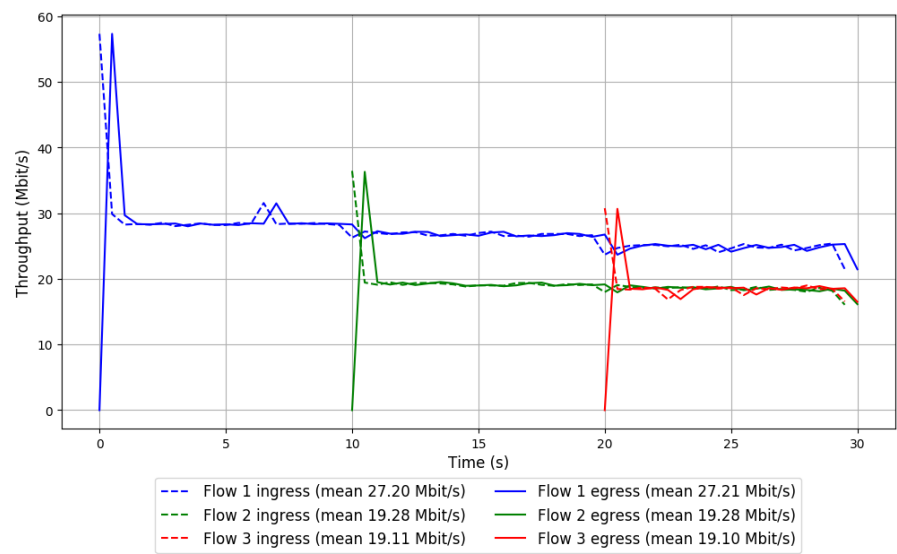


Run 2: Statistics of Indigo-Muses

Start at: 2018-12-02 15:01:58
End at: 2018-12-02 15:02:28
Local clock offset: 0.081 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-12-02 16:38:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 3.004 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 27.21 Mbit/s
95th percentile per-packet one-way delay: 2.904 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 3.048 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 3.299 ms
Loss rate: 0.02%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-12-02 15:23:53

End at: 2018-12-02 15:24:23

Local clock offset: -2.641 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-12-02 16:38:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.25 Mbit/s

95th percentile per-packet one-way delay: 3.227 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 19.53 Mbit/s

95th percentile per-packet one-way delay: 3.088 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 3.254 ms

Loss rate: 0.02%

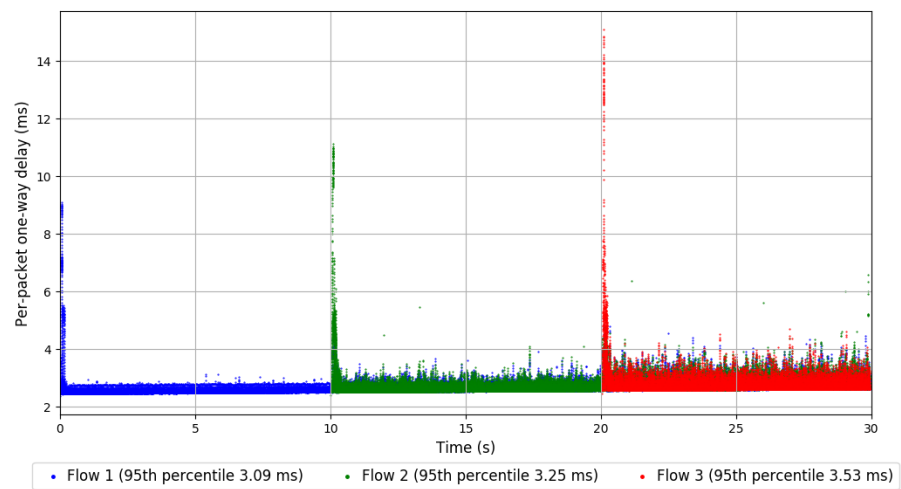
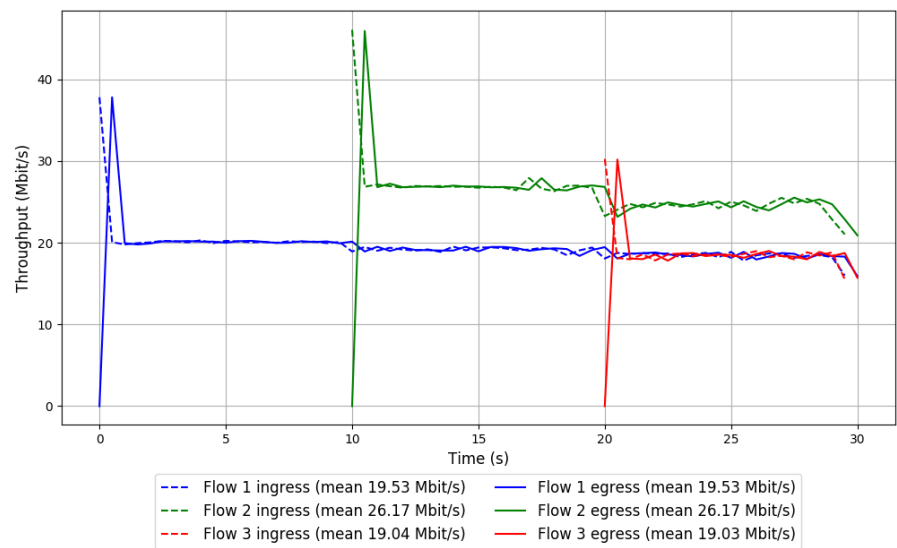
-- Flow 3:

Average throughput: 19.03 Mbit/s

95th percentile per-packet one-way delay: 3.530 ms

Loss rate: 0.01%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-12-02 15:45:47

End at: 2018-12-02 15:46:17

Local clock offset: -6.727 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2018-12-02 16:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 2.365 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 2.262 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 26.00 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.02%

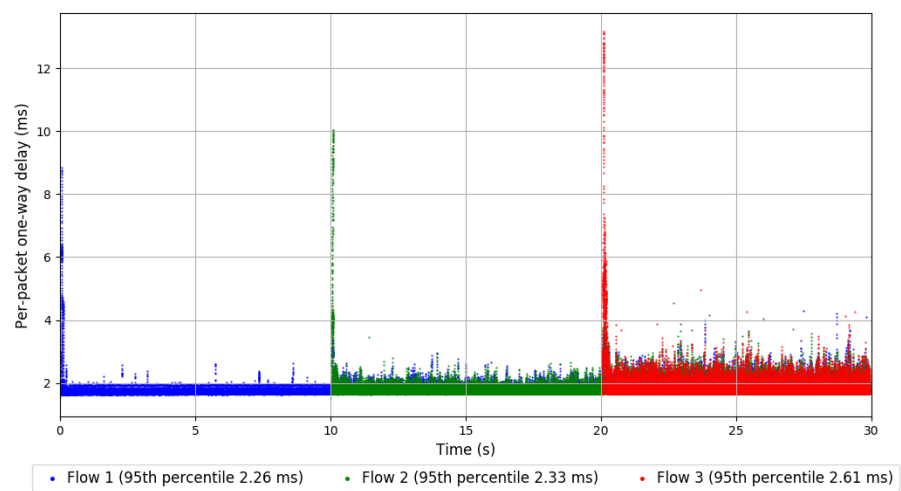
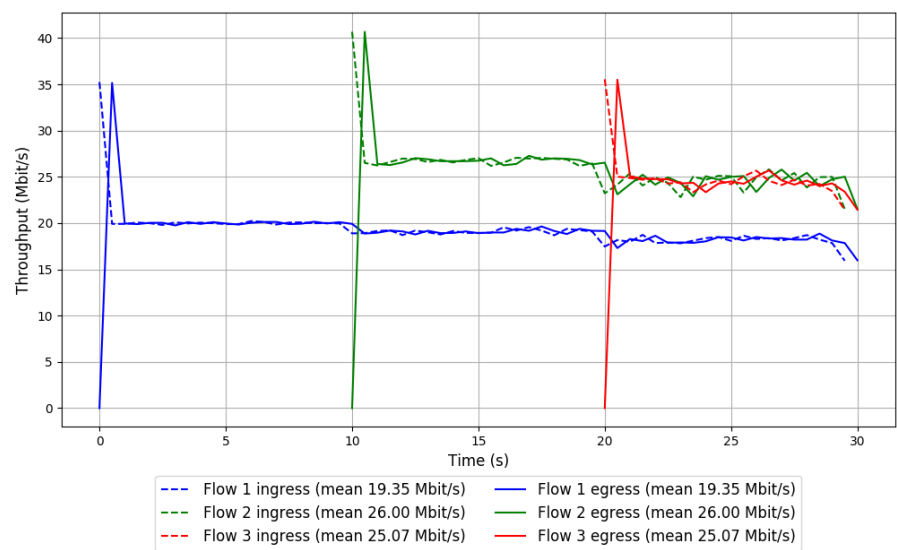
-- Flow 3:

Average throughput: 25.07 Mbit/s

95th percentile per-packet one-way delay: 2.607 ms

Loss rate: 0.03%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-12-02 16:07:43

End at: 2018-12-02 16:08:13

Local clock offset: -7.073 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-12-02 16:38:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.27 Mbit/s

95th percentile per-packet one-way delay: 3.350 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 26.82 Mbit/s

95th percentile per-packet one-way delay: 3.246 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 3.337 ms

Loss rate: 0.02%

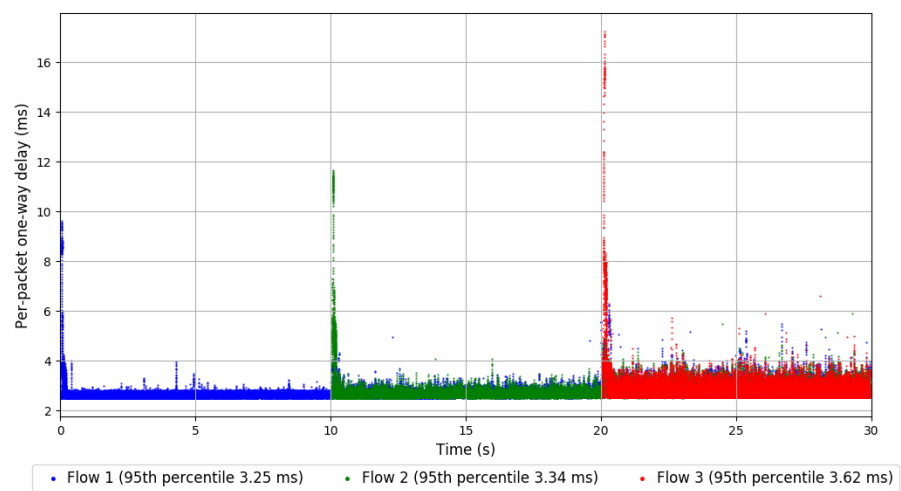
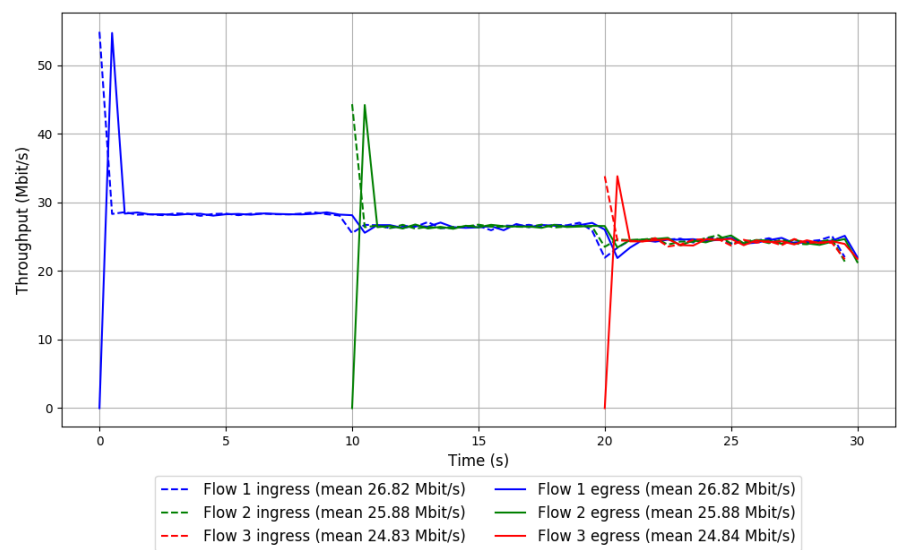
-- Flow 3:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 3.615 ms

Loss rate: 0.03%

Run 5: Report of Indigo-Muses — Data Link

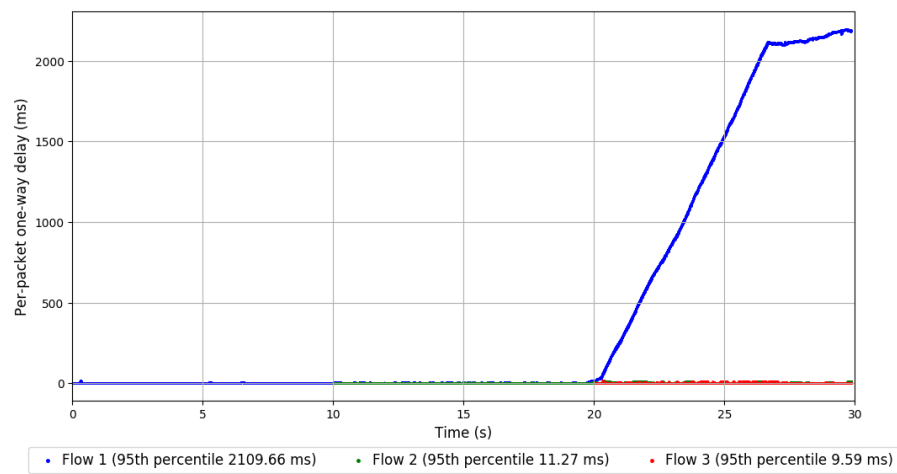
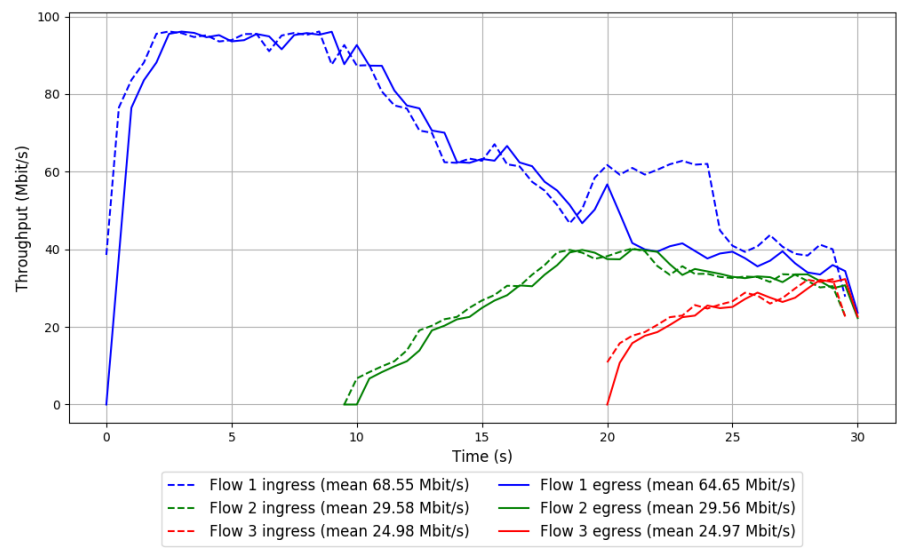


Run 1: Statistics of PCC-Allegro

Start at: 2018-12-02 14:53:56
End at: 2018-12-02 14:54:26
Local clock offset: 0.317 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-12-02 16:38:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.52 Mbit/s
95th percentile per-packet one-way delay: 1846.731 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 64.65 Mbit/s
95th percentile per-packet one-way delay: 2109.662 ms
Loss rate: 5.69%
-- Flow 2:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 11.268 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 9.591 ms
Loss rate: 0.05%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-02 15:15:51

End at: 2018-12-02 15:16:21

Local clock offset: -0.496 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-12-02 16:39:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 1846.197 ms

Loss rate: 8.81%

-- Flow 1:

Average throughput: 64.12 Mbit/s

95th percentile per-packet one-way delay: 1858.414 ms

Loss rate: 9.92%

-- Flow 2:

Average throughput: 35.84 Mbit/s

95th percentile per-packet one-way delay: 700.622 ms

Loss rate: 8.18%

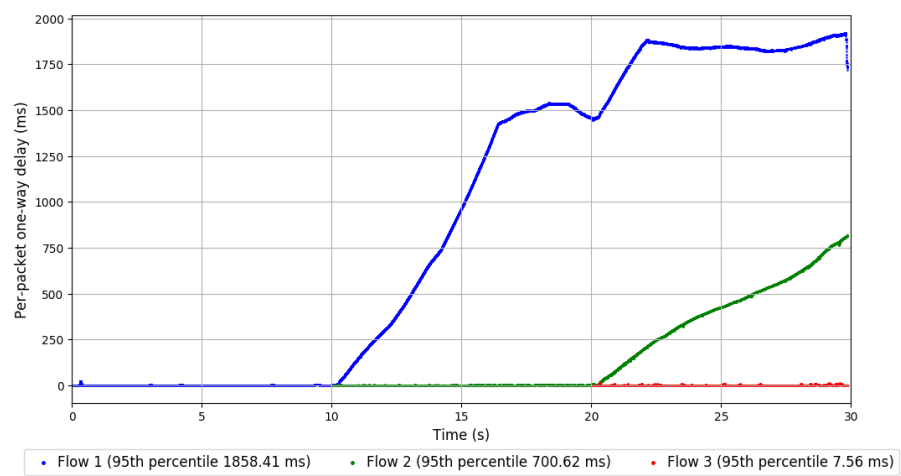
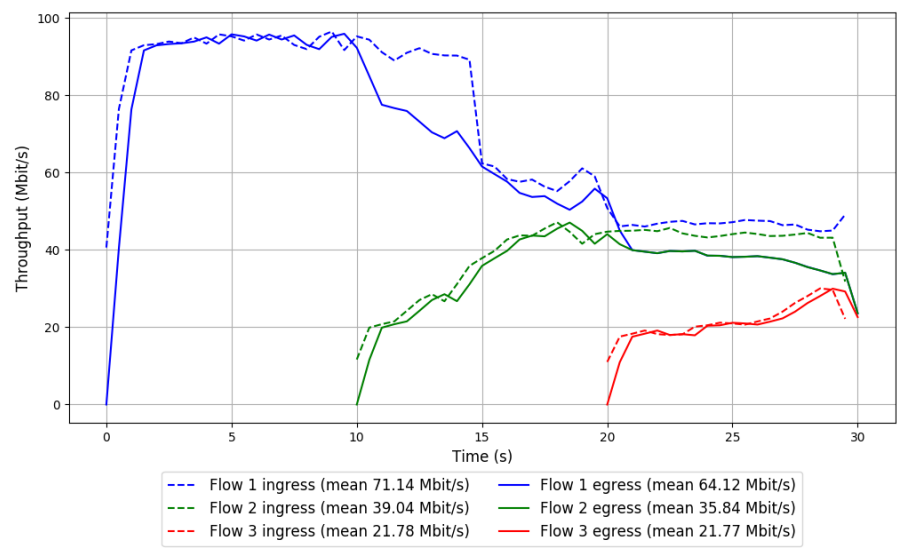
-- Flow 3:

Average throughput: 21.77 Mbit/s

95th percentile per-packet one-way delay: 7.562 ms

Loss rate: 0.05%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-12-02 15:37:44

End at: 2018-12-02 15:38:14

Local clock offset: -6.108 ms

Remote clock offset: 0.322 ms

Below is generated by plot.py at 2018-12-02 16:39:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 1563.549 ms

Loss rate: 4.03%

-- Flow 1:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 1829.524 ms

Loss rate: 5.18%

-- Flow 2:

Average throughput: 21.93 Mbit/s

95th percentile per-packet one-way delay: 11.343 ms

Loss rate: 0.12%

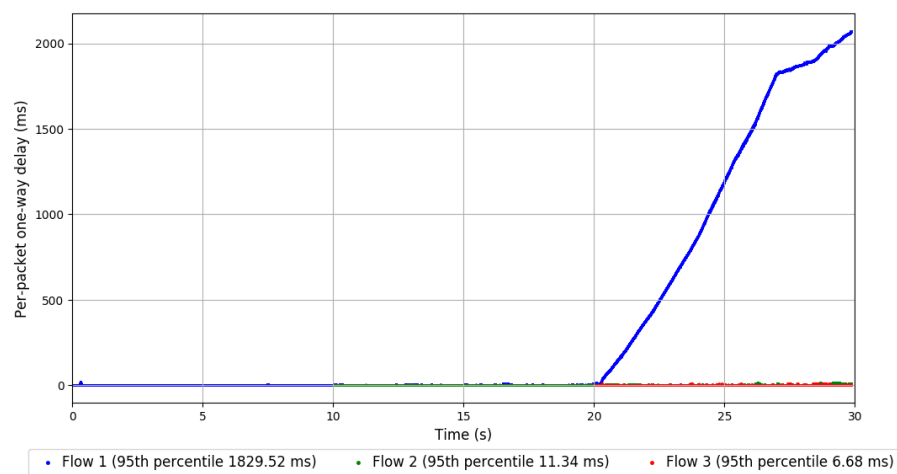
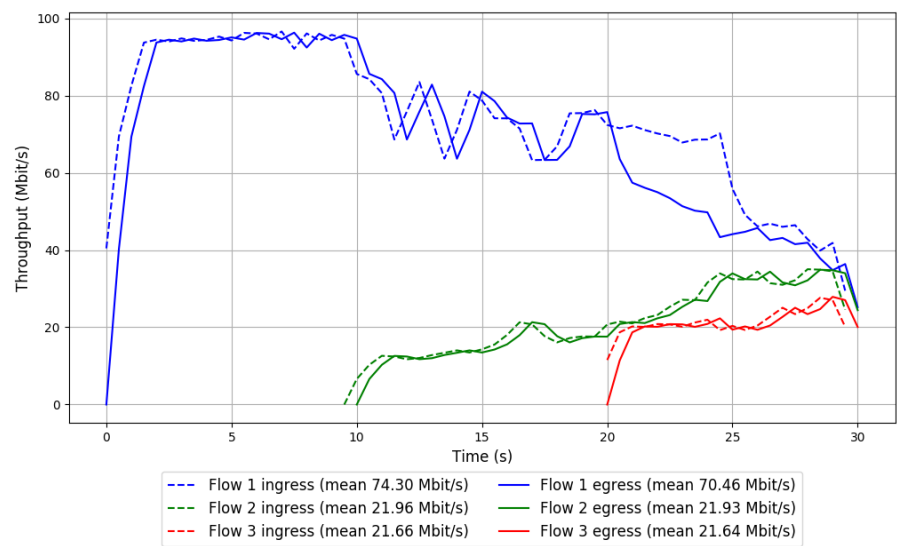
-- Flow 3:

Average throughput: 21.64 Mbit/s

95th percentile per-packet one-way delay: 6.682 ms

Loss rate: 0.05%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-12-02 15:59:40

End at: 2018-12-02 16:00:10

Local clock offset: -6.712 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-12-02 16:39:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 2038.607 ms

Loss rate: 8.19%

-- Flow 1:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 2093.398 ms

Loss rate: 10.21%

-- Flow 2:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 609.683 ms

Loss rate: 6.21%

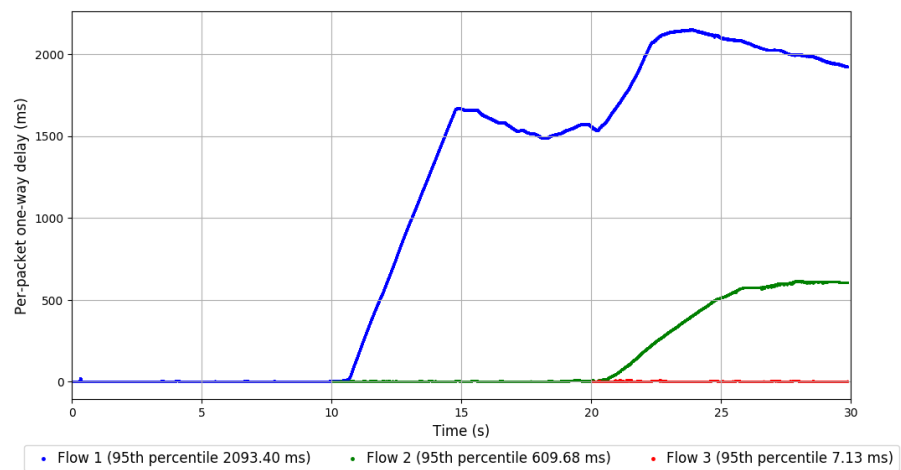
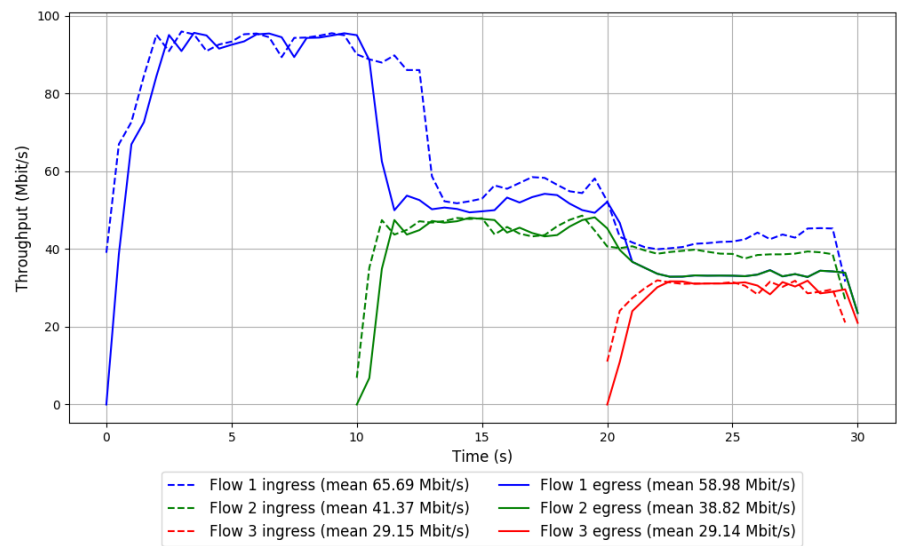
-- Flow 3:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 7.129 ms

Loss rate: 0.05%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-12-02 16:21:35

End at: 2018-12-02 16:22:05

Local clock offset: -2.618 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-12-02 16:39:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.77 Mbit/s

95th percentile per-packet one-way delay: 1669.080 ms

Loss rate: 16.81%

-- Flow 1:

Average throughput: 59.77 Mbit/s

95th percentile per-packet one-way delay: 1873.111 ms

Loss rate: 20.69%

-- Flow 2:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 1304.322 ms

Loss rate: 12.02%

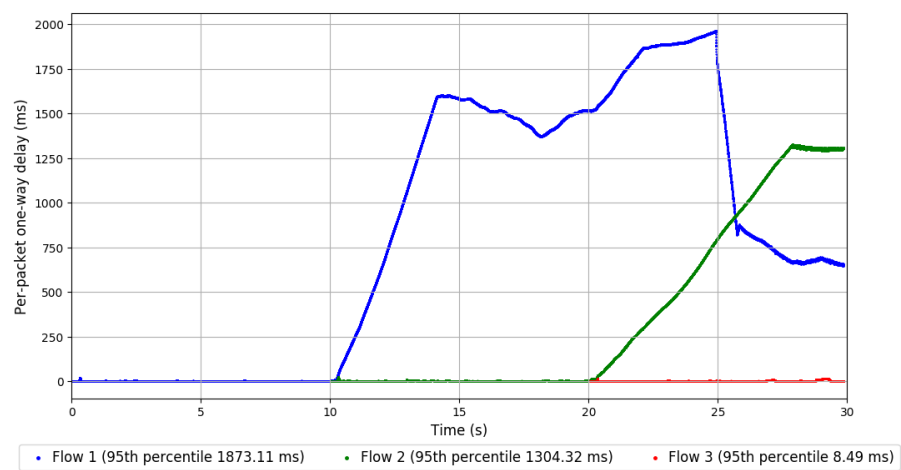
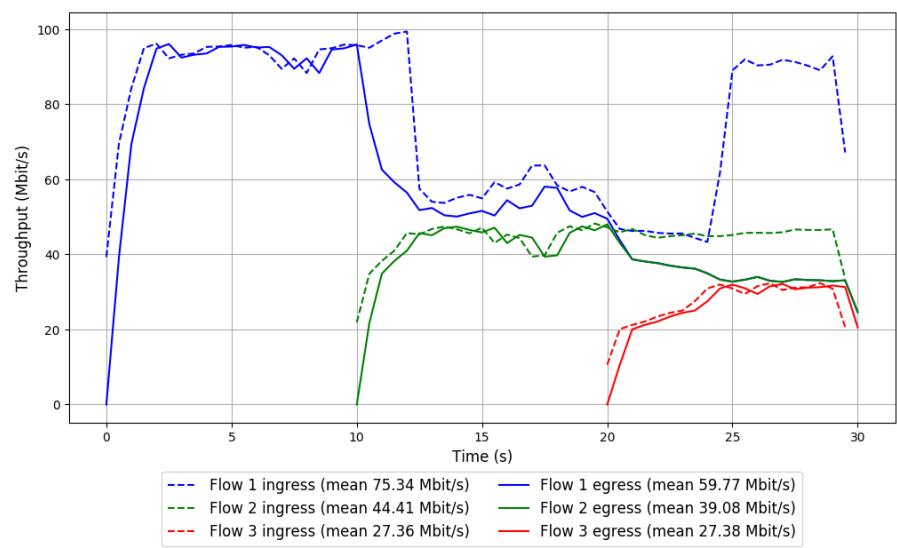
-- Flow 3:

Average throughput: 27.38 Mbit/s

95th percentile per-packet one-way delay: 8.495 ms

Loss rate: 0.08%

Run 5: Report of PCC-Allegro — Data Link

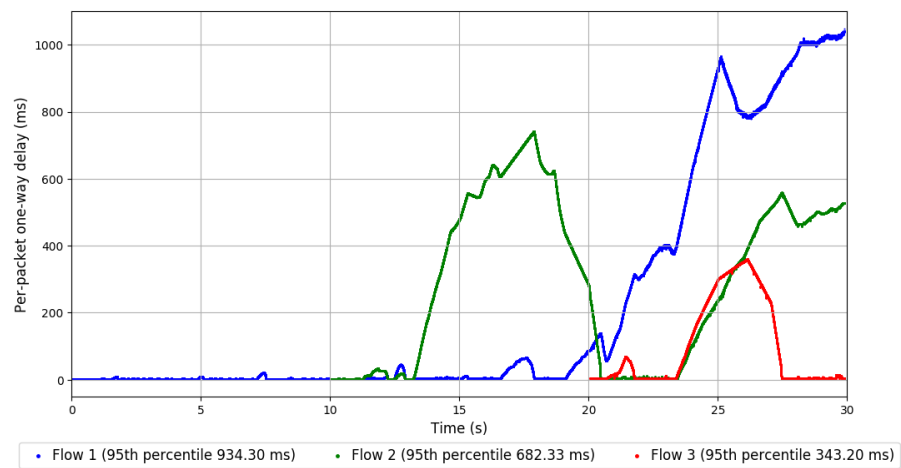
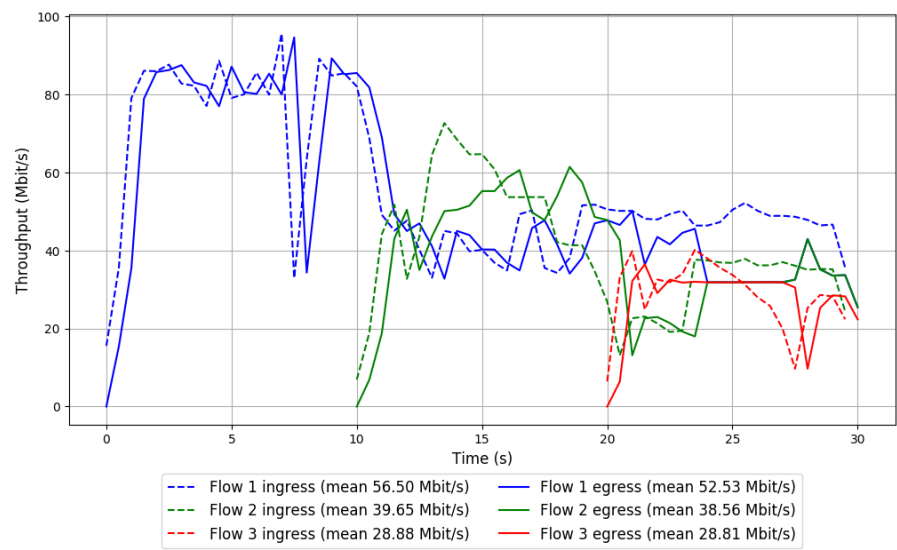


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-02 14:44:37
End at: 2018-12-02 14:45:07
Local clock offset: 0.914 ms
Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2018-12-02 16:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 825.108 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 934.305 ms
Loss rate: 7.00%
-- Flow 2:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 682.333 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 28.81 Mbit/s
95th percentile per-packet one-way delay: 343.197 ms
Loss rate: 0.26%
```

Run 1: Report of PCC-Expr — Data Link

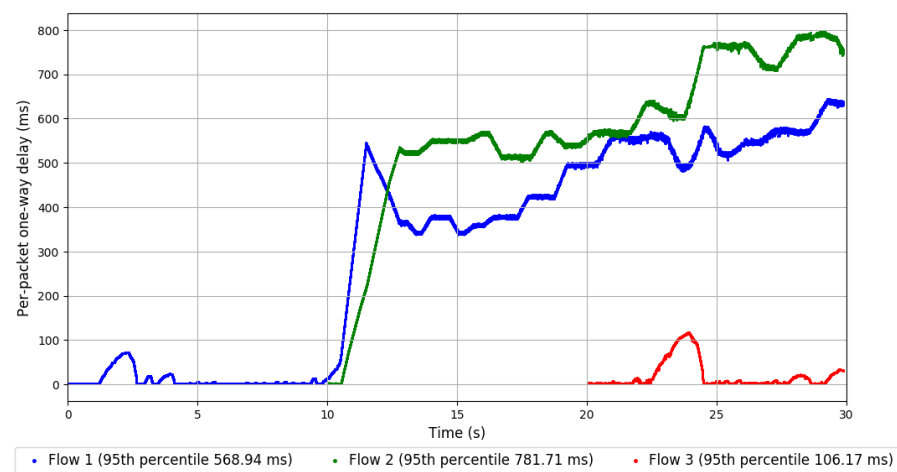
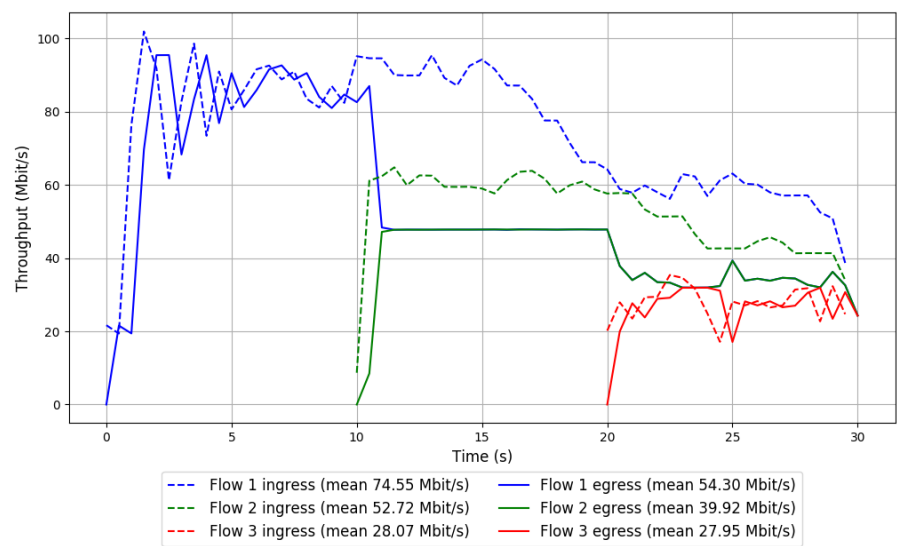


```
Run 2: Statistics of PCC-Expr

Start at: 2018-12-02 15:06:30
End at: 2018-12-02 15:07:00
Local clock offset: 0.033 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-12-02 16:40:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 743.677 ms
Loss rate: 24.25%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 568.943 ms
Loss rate: 27.18%
-- Flow 2:
Average throughput: 39.92 Mbit/s
95th percentile per-packet one-way delay: 781.711 ms
Loss rate: 24.30%
-- Flow 3:
Average throughput: 27.95 Mbit/s
95th percentile per-packet one-way delay: 106.170 ms
Loss rate: 0.50%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-12-02 15:28:25

End at: 2018-12-02 15:28:55

Local clock offset: -4.663 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-12-02 16:40:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.66 Mbit/s

95th percentile per-packet one-way delay: 650.688 ms

Loss rate: 17.46%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 665.579 ms

Loss rate: 19.46%

-- Flow 2:

Average throughput: 39.06 Mbit/s

95th percentile per-packet one-way delay: 647.172 ms

Loss rate: 15.27%

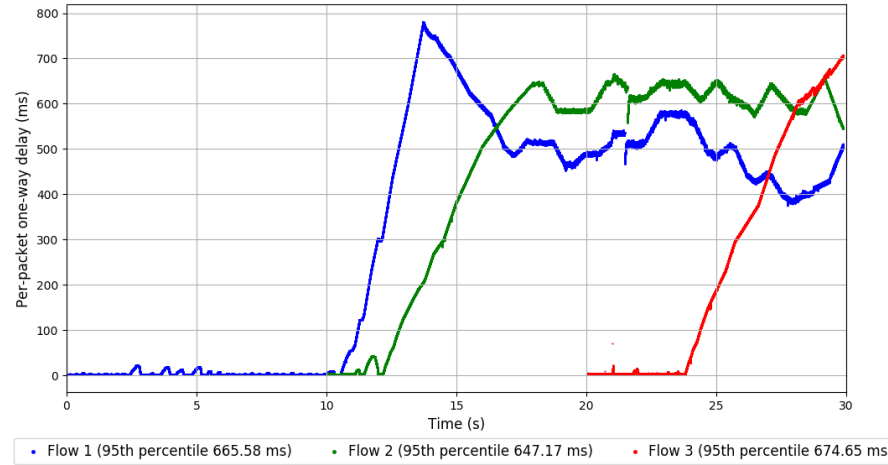
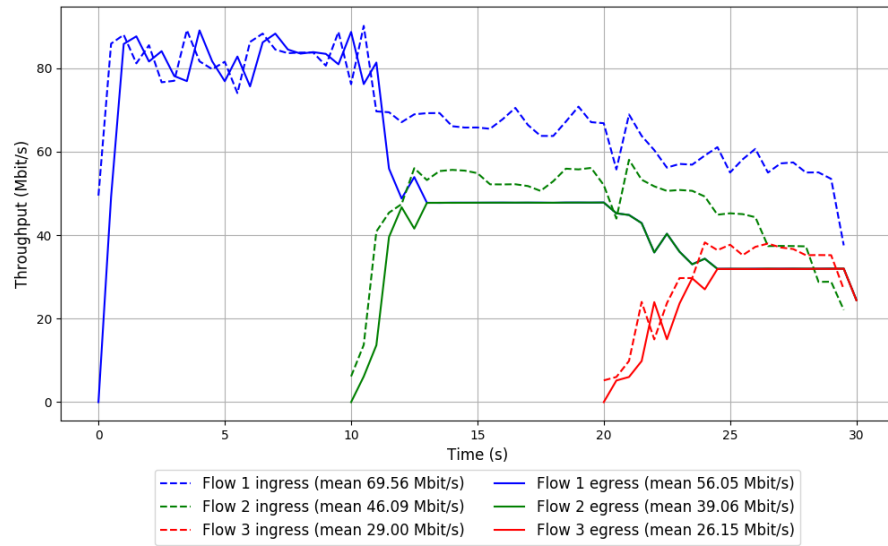
-- Flow 3:

Average throughput: 26.15 Mbit/s

95th percentile per-packet one-way delay: 674.655 ms

Loss rate: 9.89%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-12-02 15:50:19

End at: 2018-12-02 15:50:49

Local clock offset: -7.005 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-12-02 16:41:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.03 Mbit/s

95th percentile per-packet one-way delay: 1081.905 ms

Loss rate: 16.15%

-- Flow 1:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 1157.068 ms

Loss rate: 20.21%

-- Flow 2:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 72.182 ms

Loss rate: 0.13%

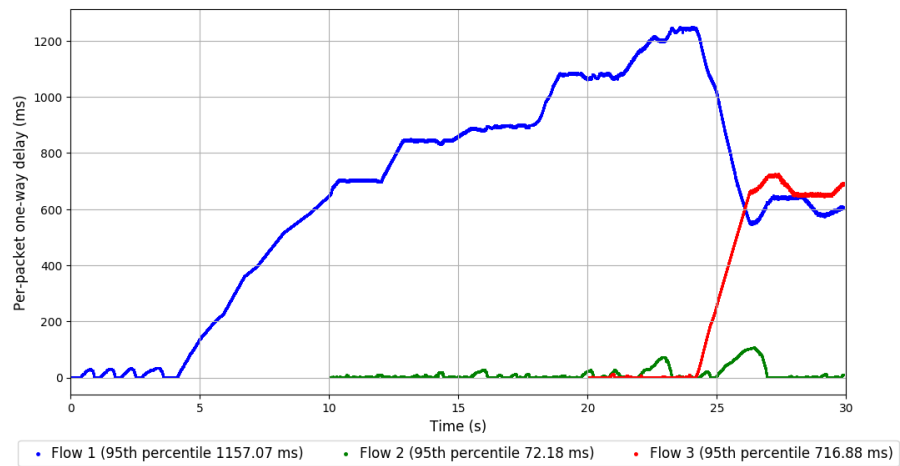
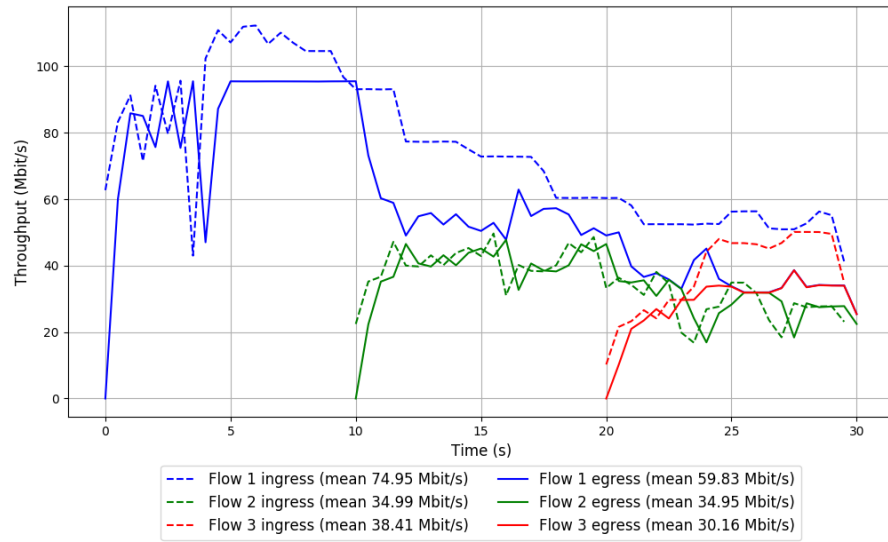
-- Flow 3:

Average throughput: 30.16 Mbit/s

95th percentile per-packet one-way delay: 716.876 ms

Loss rate: 21.51%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-12-02 16:12:15

End at: 2018-12-02 16:12:45

Local clock offset: -7.249 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2018-12-02 16:41:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 857.422 ms

Loss rate: 12.24%

-- Flow 1:

Average throughput: 48.18 Mbit/s

95th percentile per-packet one-way delay: 225.132 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 44.97 Mbit/s

95th percentile per-packet one-way delay: 911.666 ms

Loss rate: 27.74%

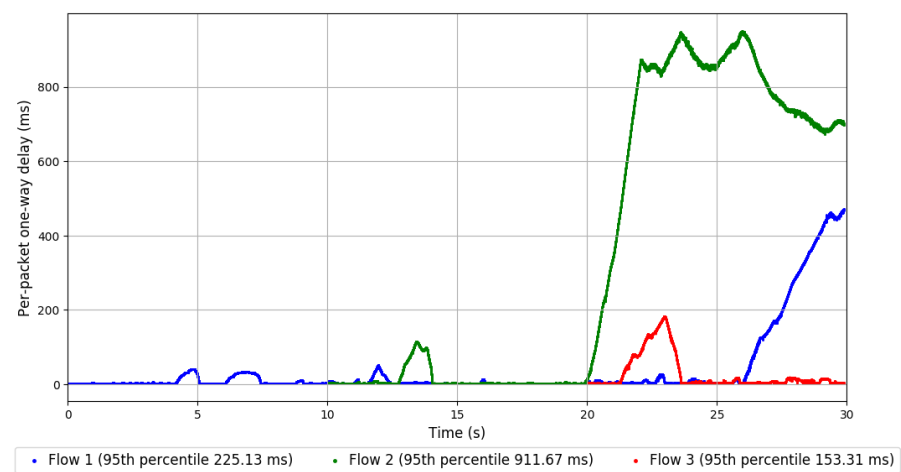
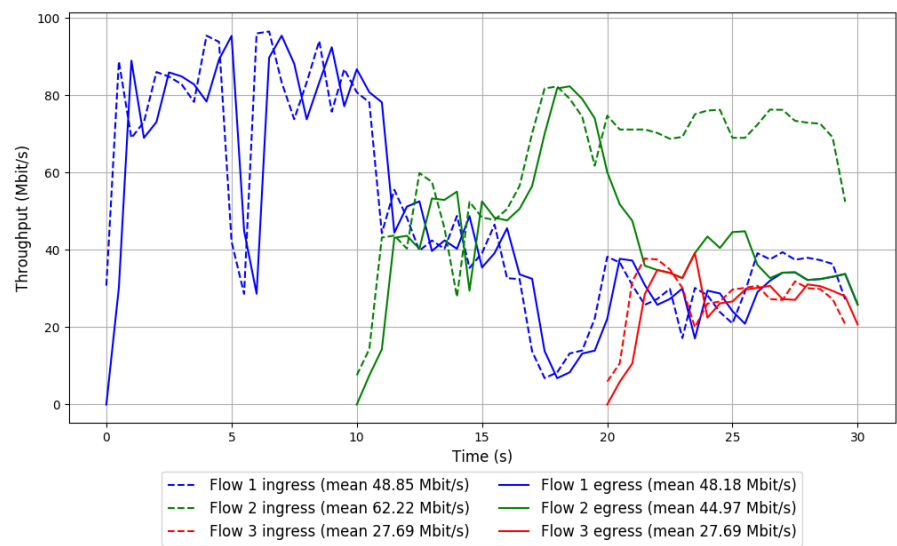
-- Flow 3:

Average throughput: 27.69 Mbit/s

95th percentile per-packet one-way delay: 153.310 ms

Loss rate: 0.12%

Run 5: Report of PCC-Expr — Data Link

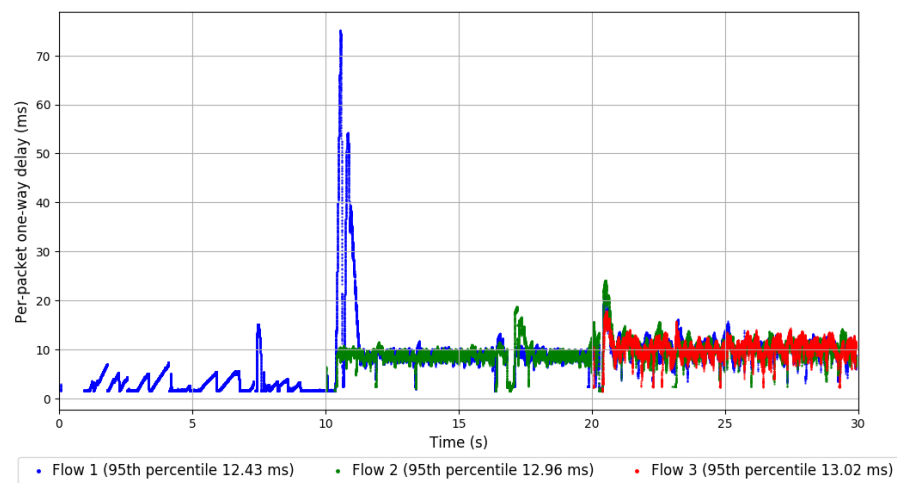
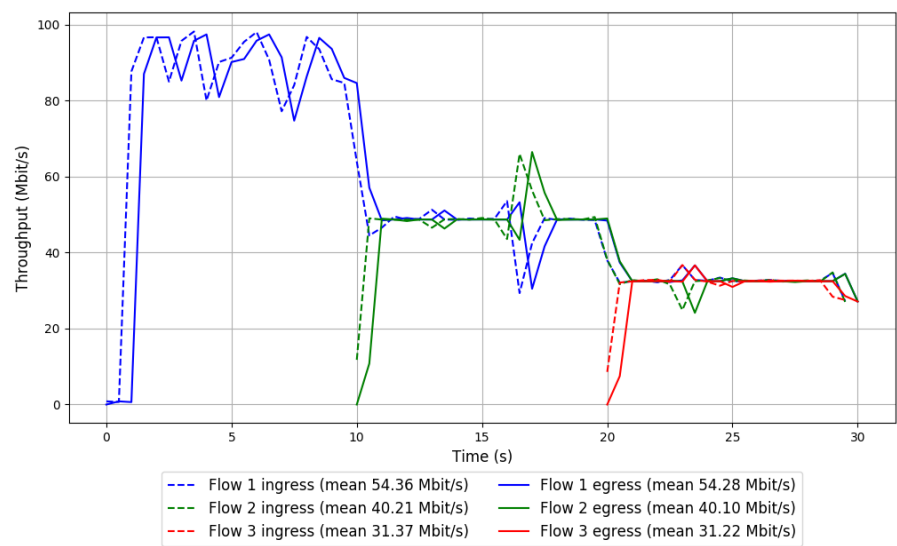


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-12-02 14:43:28
End at: 2018-12-02 14:43:58
Local clock offset: 0.004 ms
Remote clock offset: -0.31 ms

# Below is generated by plot.py at 2018-12-02 16:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 12.761 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 54.28 Mbit/s
95th percentile per-packet one-way delay: 12.430 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 12.959 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 13.018 ms
Loss rate: 0.52%
```

Run 1: Report of QUIC Cubic — Data Link

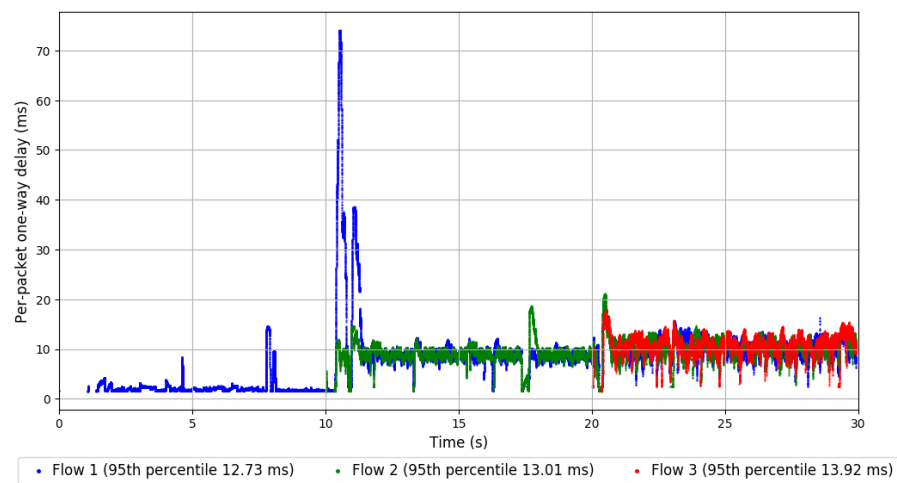
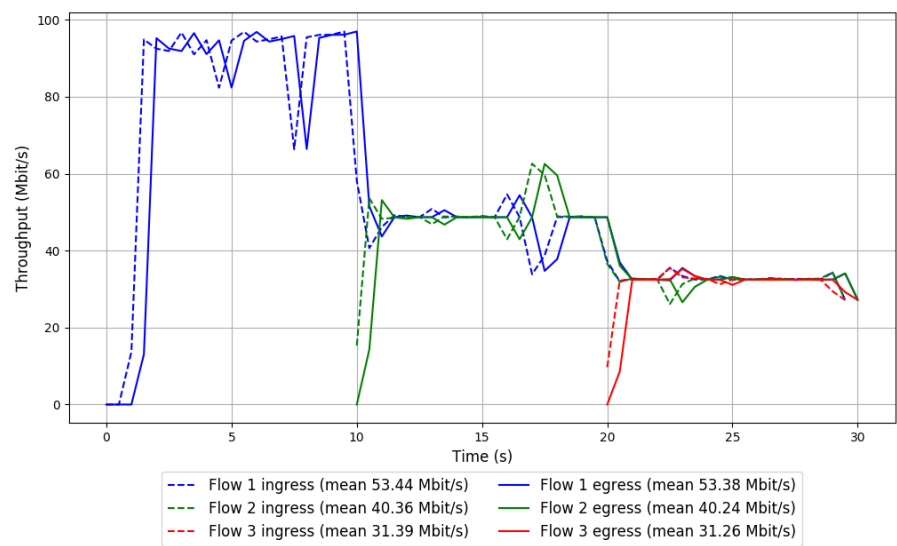


Run 2: Statistics of QUIC Cubic

Start at: 2018-12-02 15:05:21
End at: 2018-12-02 15:05:51
Local clock offset: -0.659 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-12-02 16:41:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 13.216 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 53.38 Mbit/s
95th percentile per-packet one-way delay: 12.735 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 13.005 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 13.920 ms
Loss rate: 0.47%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-02 15:27:16

End at: 2018-12-02 15:27:46

Local clock offset: -3.641 ms

Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-12-02 16:41:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.39 Mbit/s

95th percentile per-packet one-way delay: 13.739 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 53.58 Mbit/s

95th percentile per-packet one-way delay: 13.854 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 13.656 ms

Loss rate: 0.29%

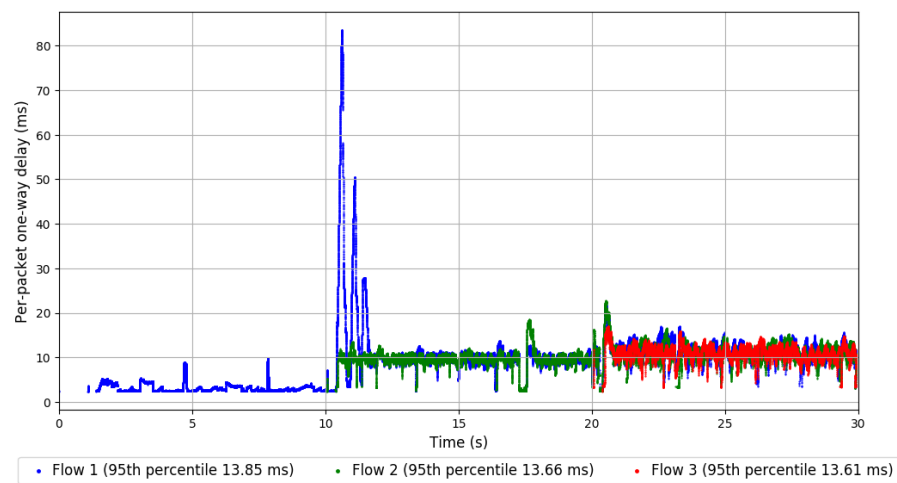
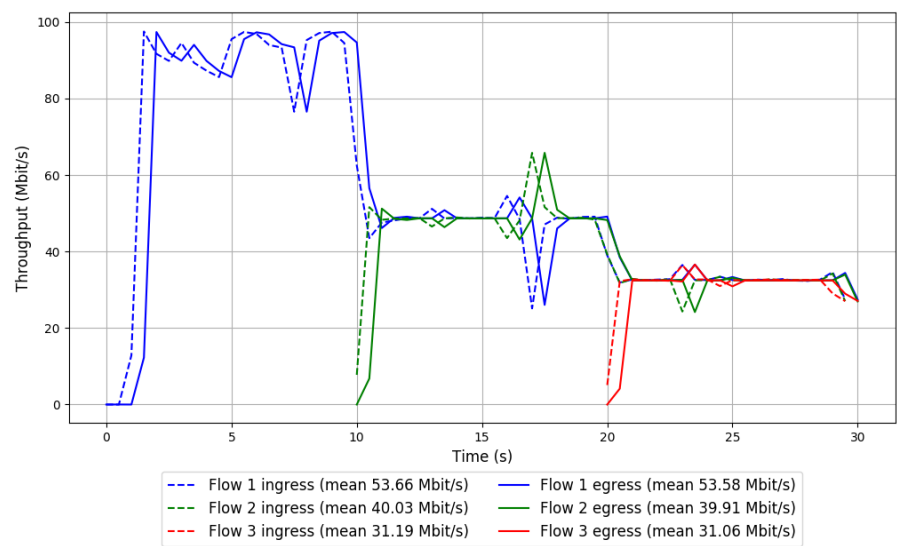
-- Flow 3:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 13.610 ms

Loss rate: 0.43%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-12-02 15:49:09

End at: 2018-12-02 15:49:39

Local clock offset: -6.985 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-12-02 16:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 12.761 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 54.83 Mbit/s

95th percentile per-packet one-way delay: 12.638 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 12.920 ms

Loss rate: 0.33%

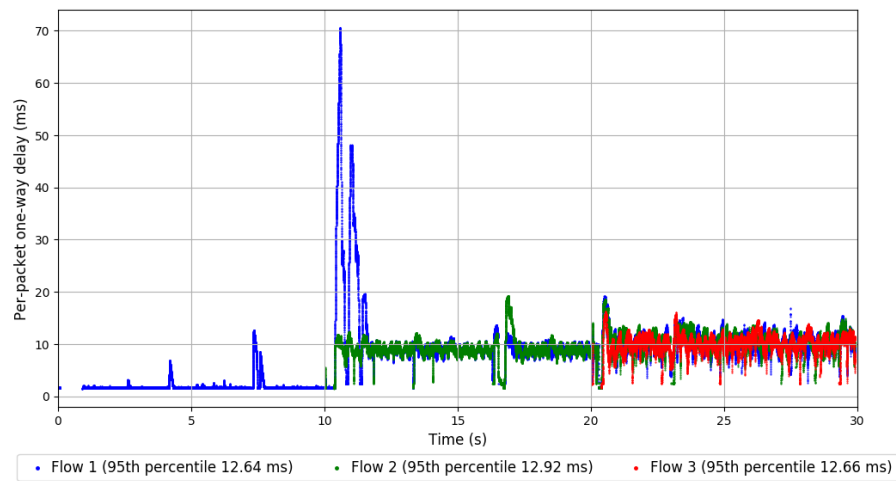
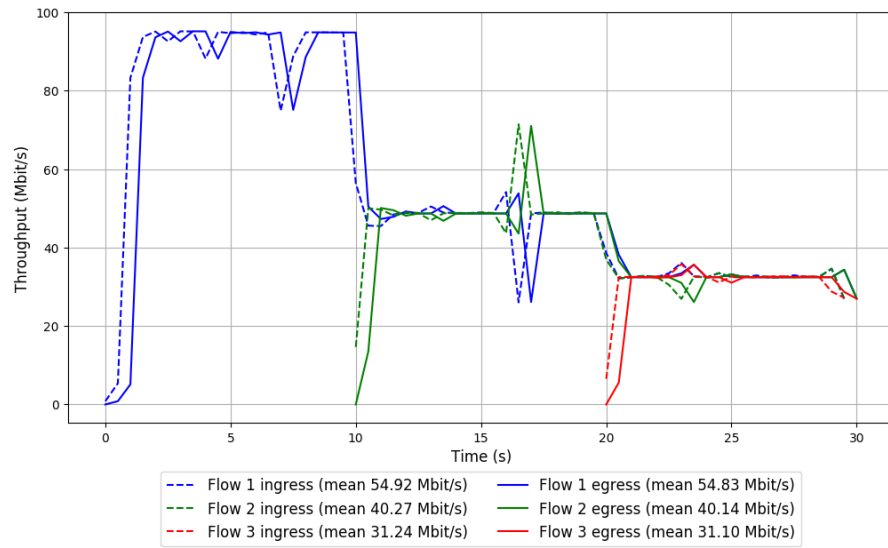
-- Flow 3:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 12.664 ms

Loss rate: 0.48%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-02 16:11:06

End at: 2018-12-02 16:11:36

Local clock offset: -7.955 ms

Remote clock offset: 0.479 ms

Below is generated by plot.py at 2018-12-02 16:41:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 12.721 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 12.632 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 39.96 Mbit/s

95th percentile per-packet one-way delay: 12.223 ms

Loss rate: 0.30%

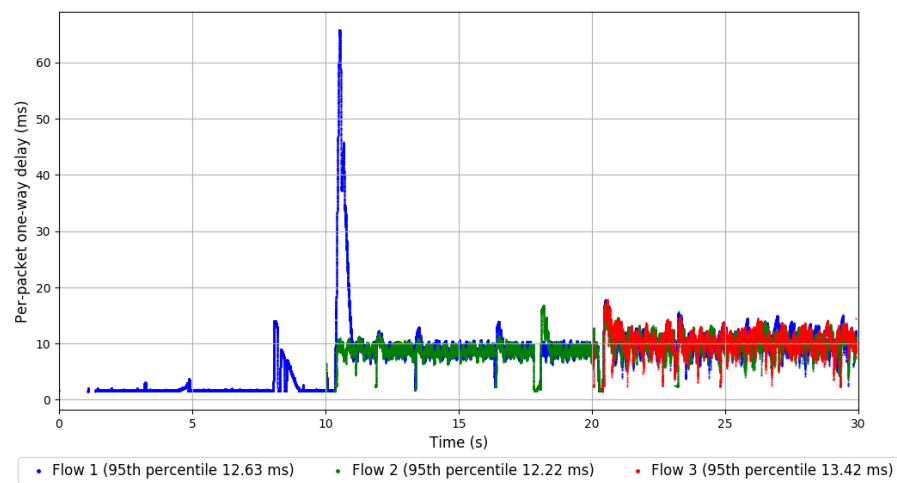
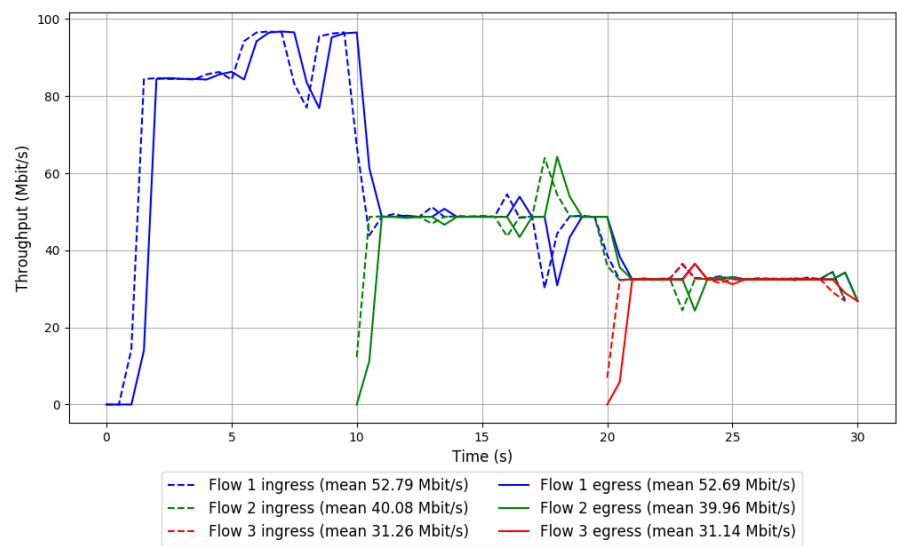
-- Flow 3:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 13.424 ms

Loss rate: 0.49%

Run 5: Report of QUIC Cubic — Data Link

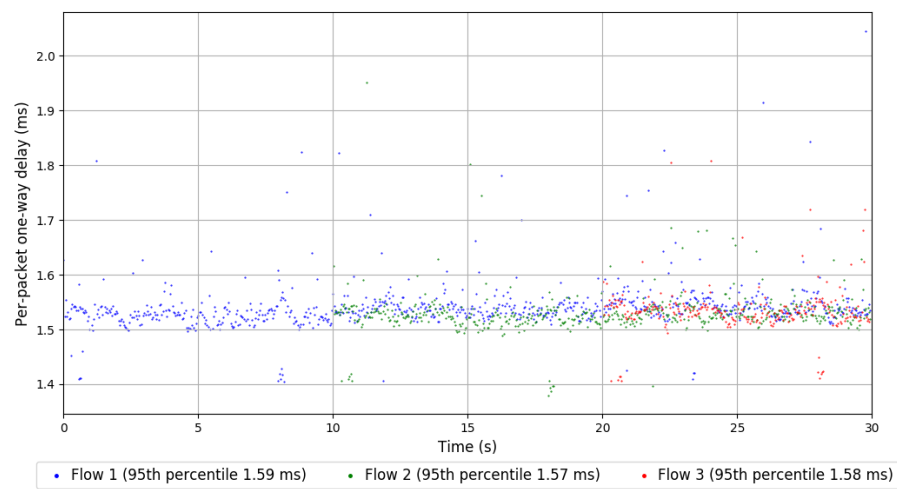
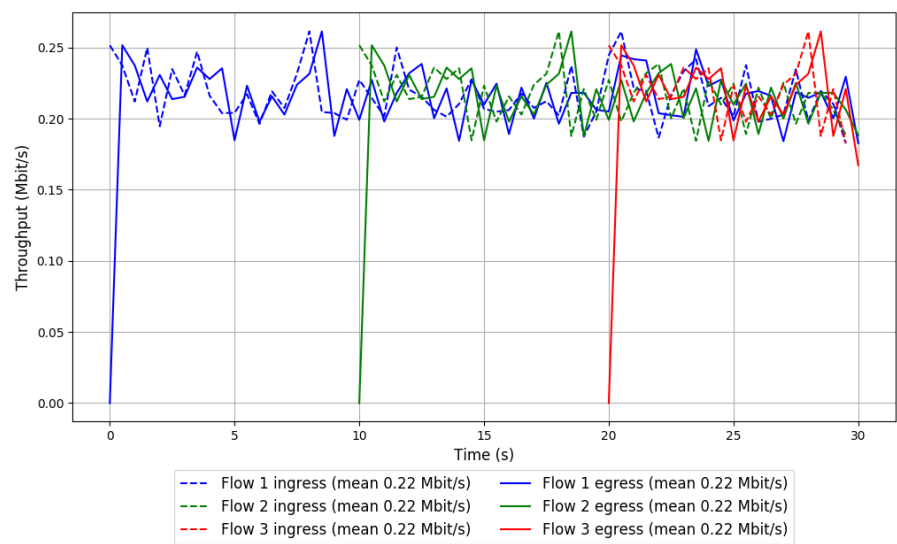


Run 1: Statistics of SCReAM

Start at: 2018-12-02 15:00:53
End at: 2018-12-02 15:01:23
Local clock offset: -0.75 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-12-02 16:41:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.585 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.591 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.584 ms
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link

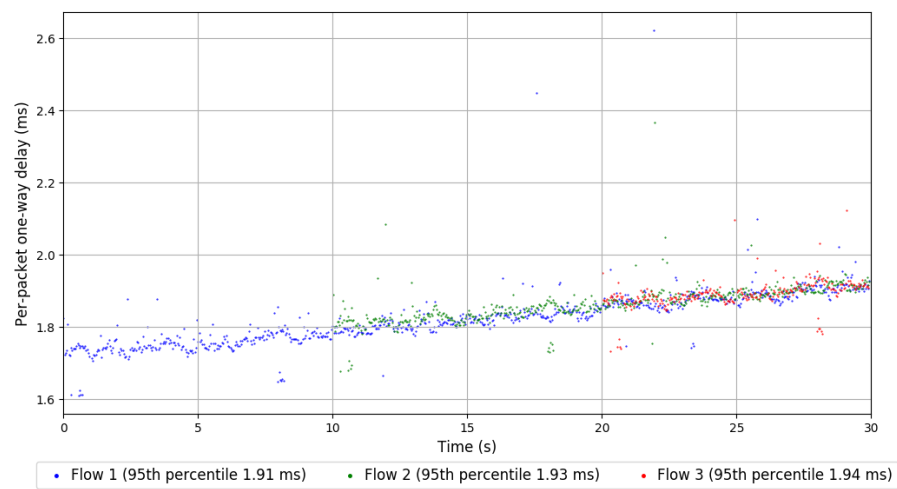
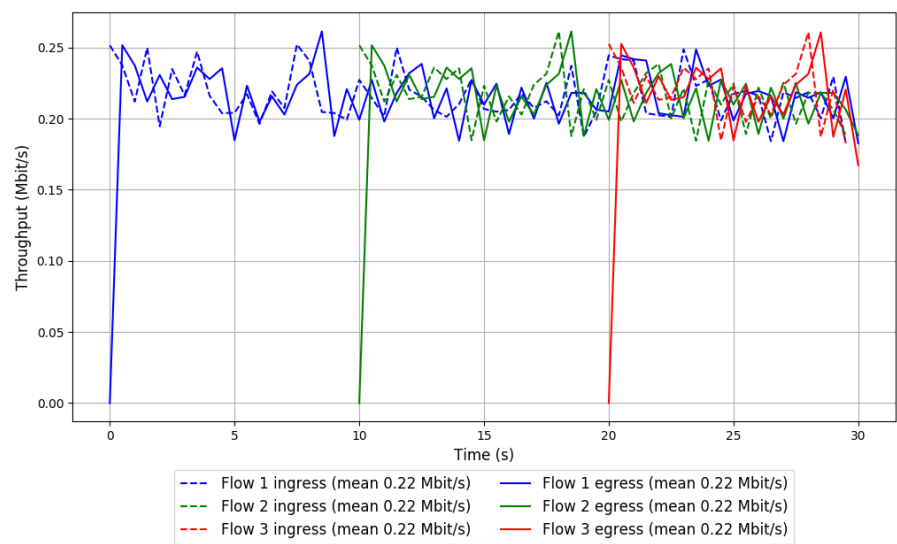


```
Run 2: Statistics of SReAM

Start at: 2018-12-02 15:22:48
End at: 2018-12-02 15:23:18
Local clock offset: -3.097 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-12-02 16:41:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.923 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.926 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.935 ms
Loss rate: 0.35%
```

Run 2: Report of SReAM — Data Link

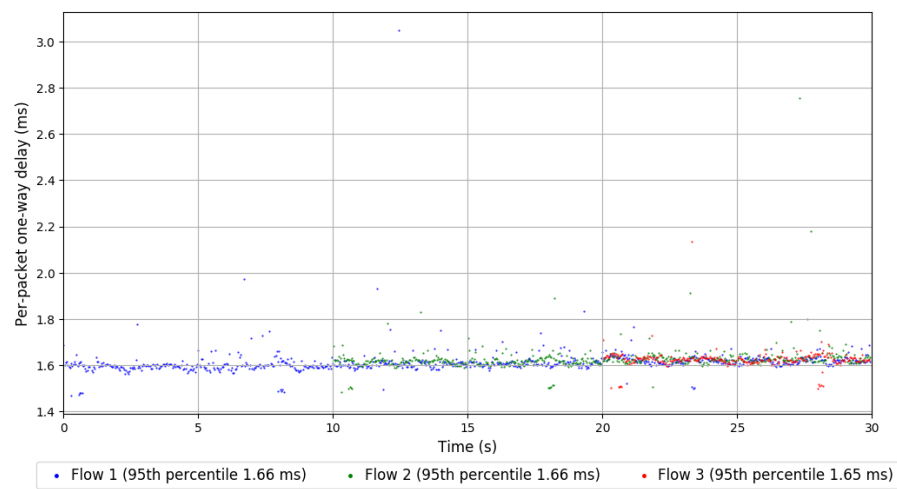
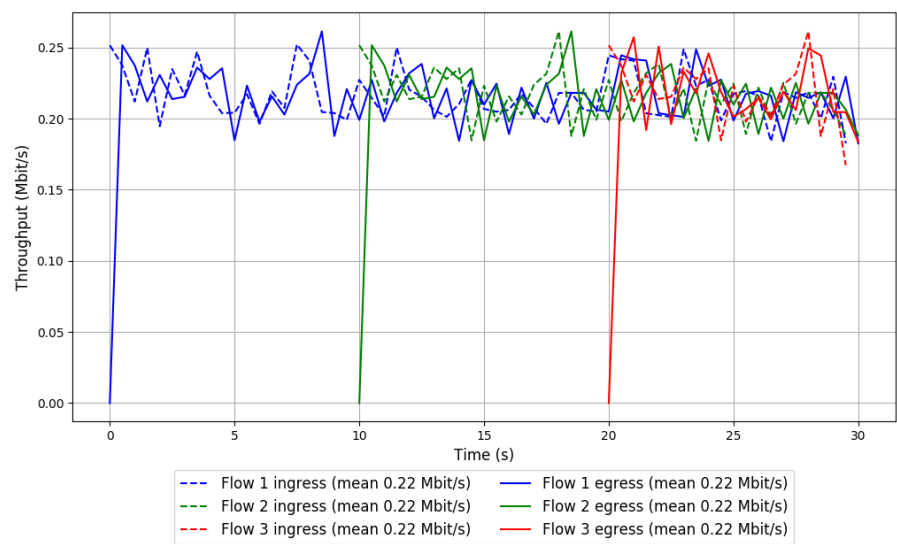


Run 3: Statistics of SReAM

Start at: 2018-12-02 15:44:41
End at: 2018-12-02 15:45:11
Local clock offset: -6.662 ms
Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-12-02 16:41:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.660 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.664 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.653 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-12-02 16:06:37

End at: 2018-12-02 16:07:07

Local clock offset: -7.775 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-12-02 16:41:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.745 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.748 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.747 ms

Loss rate: 0.00%

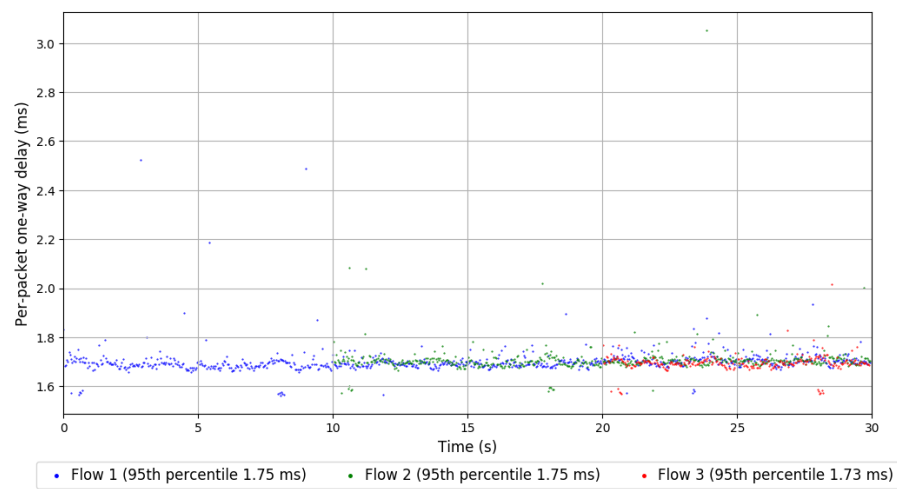
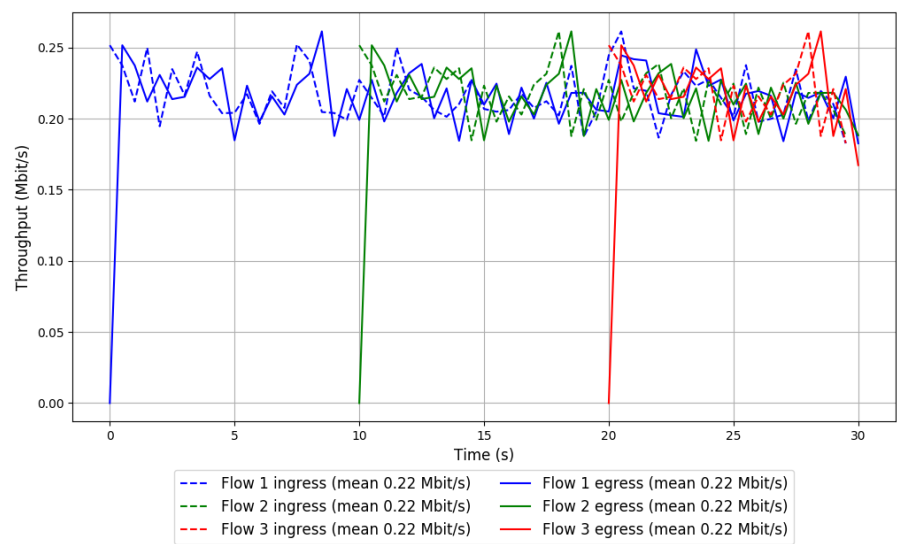
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.730 ms

Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-12-02 16:28:33

End at: 2018-12-02 16:29:03

Local clock offset: 2.048 ms

Remote clock offset: 0.477 ms

Below is generated by plot.py at 2018-12-02 16:41:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.318 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.251 ms

Loss rate: 0.00%

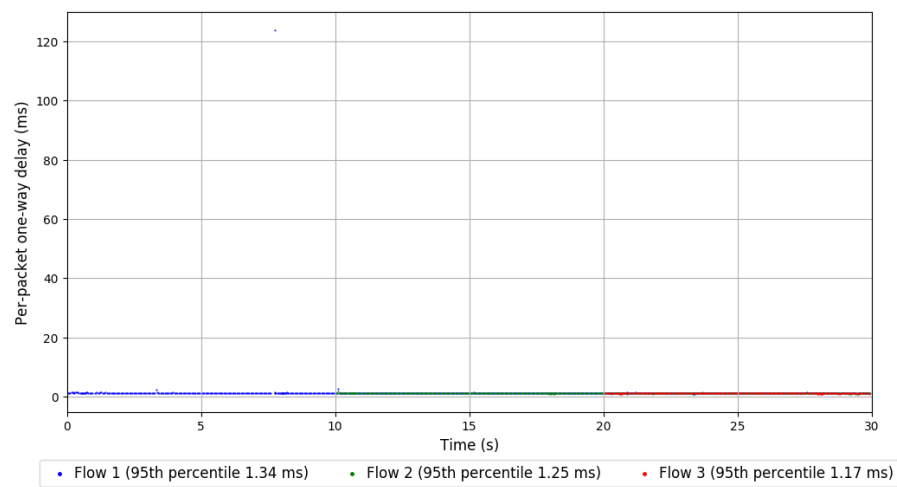
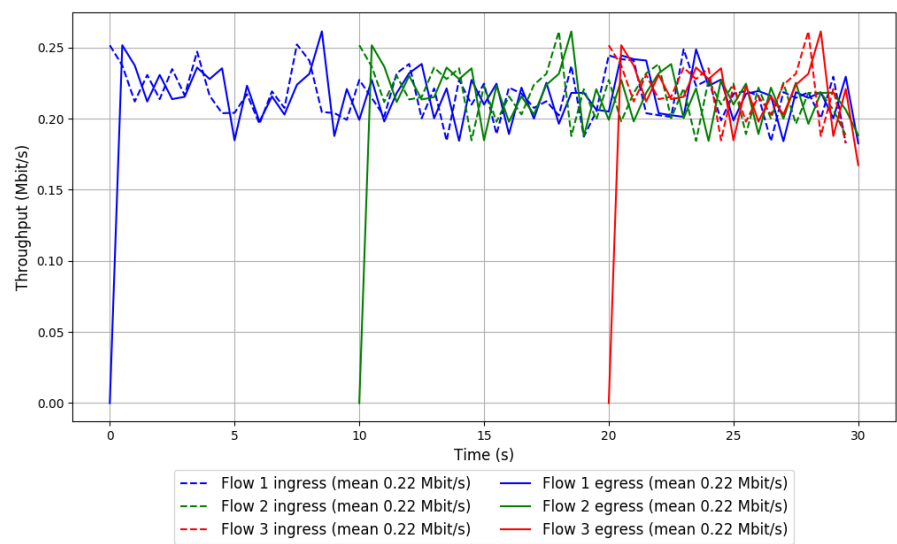
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

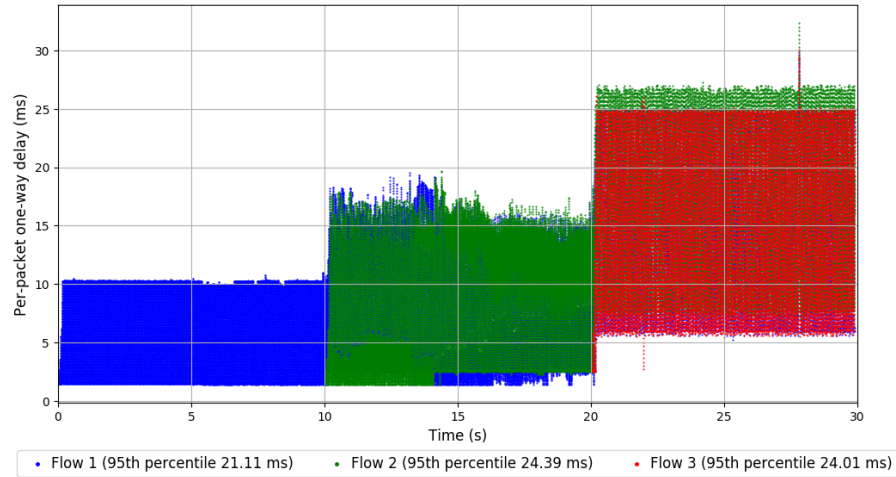
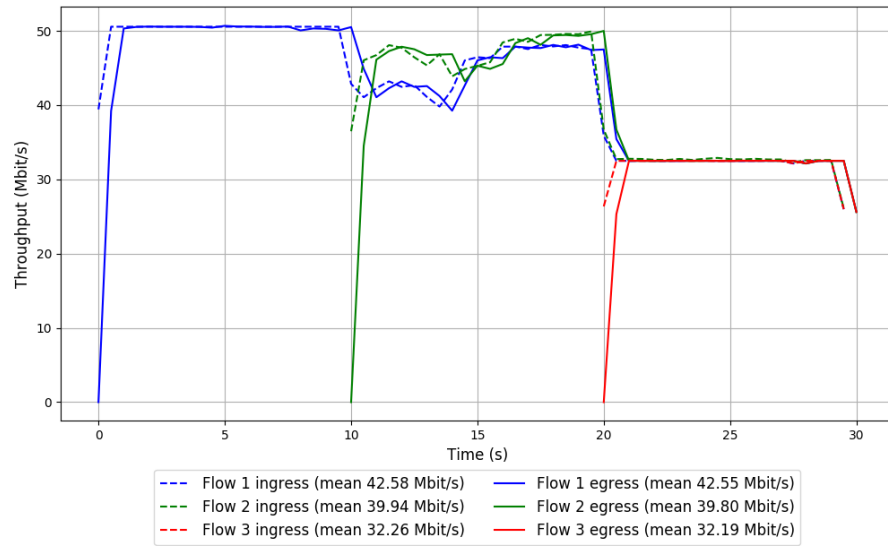


Run 1: Statistics of Sprout

Start at: 2018-12-02 14:42:21
End at: 2018-12-02 14:42:51
Local clock offset: -0.17 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-12-02 16:41:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.65 Mbit/s
95th percentile per-packet one-way delay: 23.161 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 21.106 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 24.389 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 24.007 ms
Loss rate: 0.22%

Run 1: Report of Sprout — Data Link

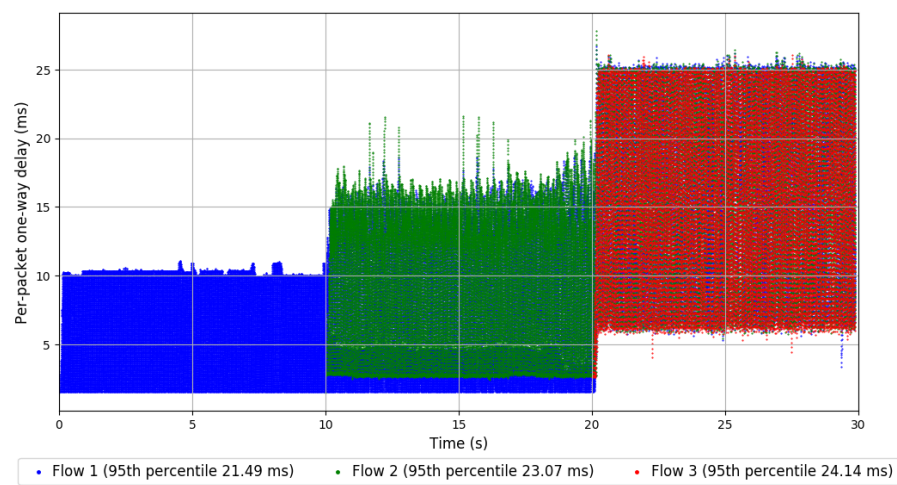
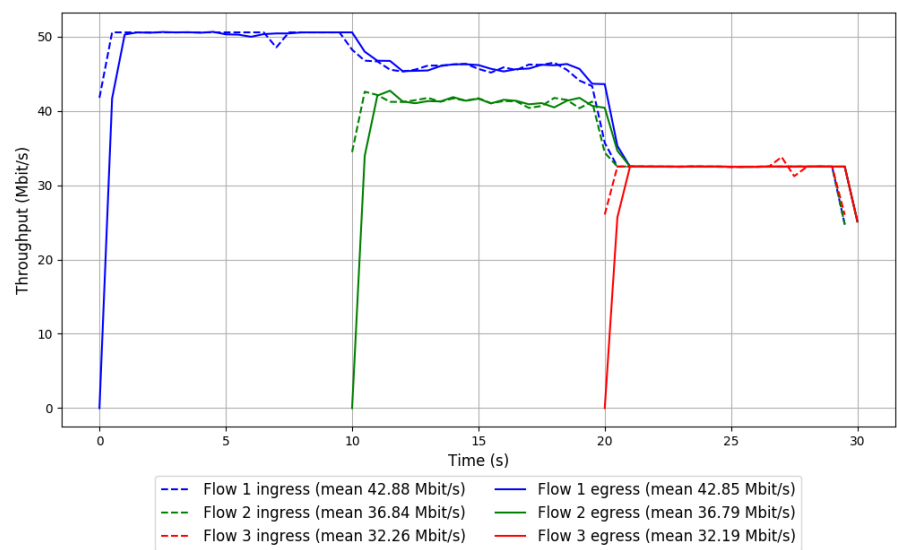


Run 2: Statistics of Sprout

Start at: 2018-12-02 15:04:14
End at: 2018-12-02 15:04:44
Local clock offset: -0.749 ms
Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-12-02 16:41:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.96 Mbit/s
95th percentile per-packet one-way delay: 22.906 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 21.486 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 23.065 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 24.138 ms
Loss rate: 0.20%

Run 2: Report of Sprout — Data Link

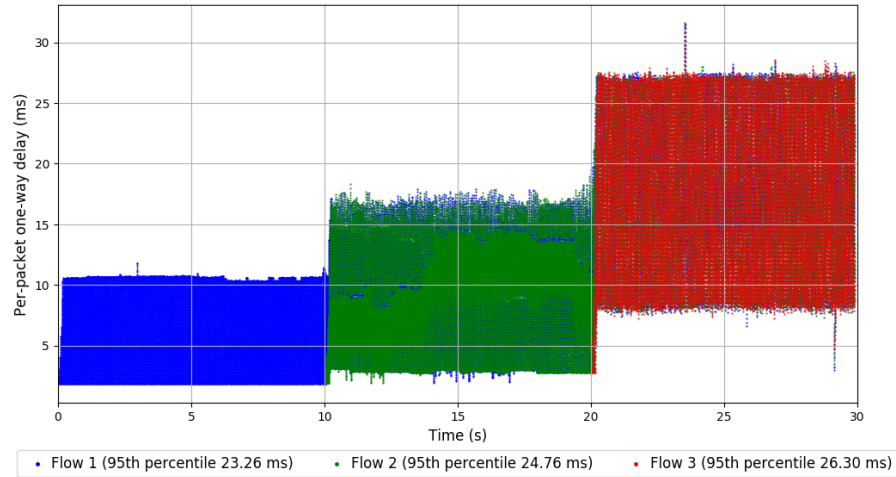
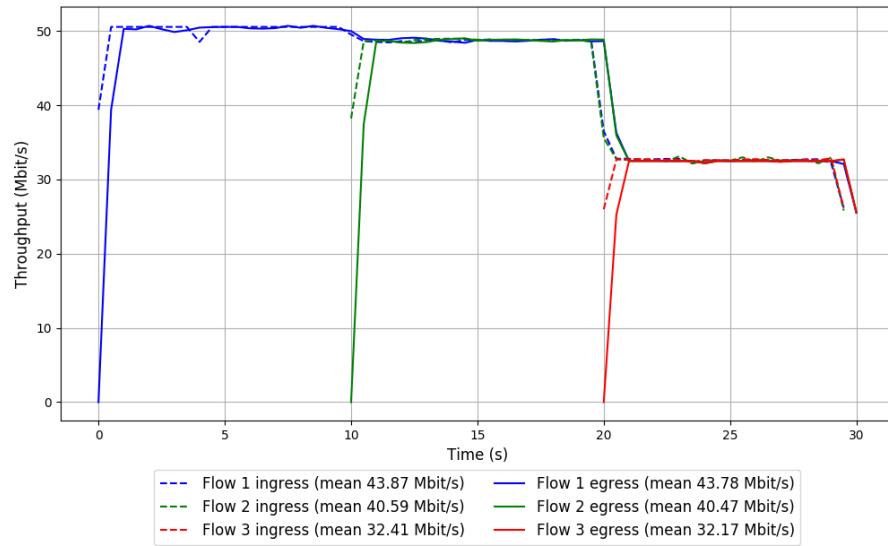


Run 3: Statistics of Sprout

Start at: 2018-12-02 15:26:08
End at: 2018-12-02 15:26:38
Local clock offset: -4.093 ms
Remote clock offset: 0.161 ms

```
# Below is generated by plot.py at 2018-12-02 16:41:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.33 Mbit/s
95th percentile per-packet one-way delay: 24.768 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 23.261 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.47 Mbit/s
95th percentile per-packet one-way delay: 24.757 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 26.302 ms
Loss rate: 0.65%
```

Run 3: Report of Sprout — Data Link

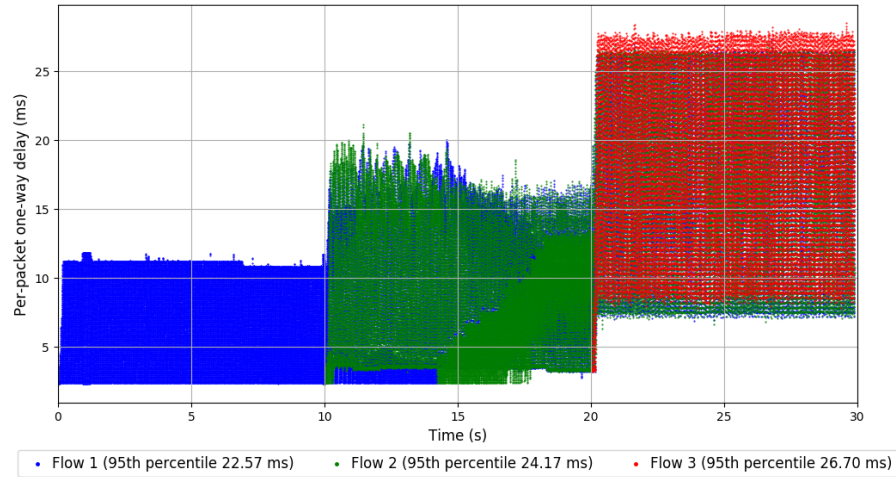
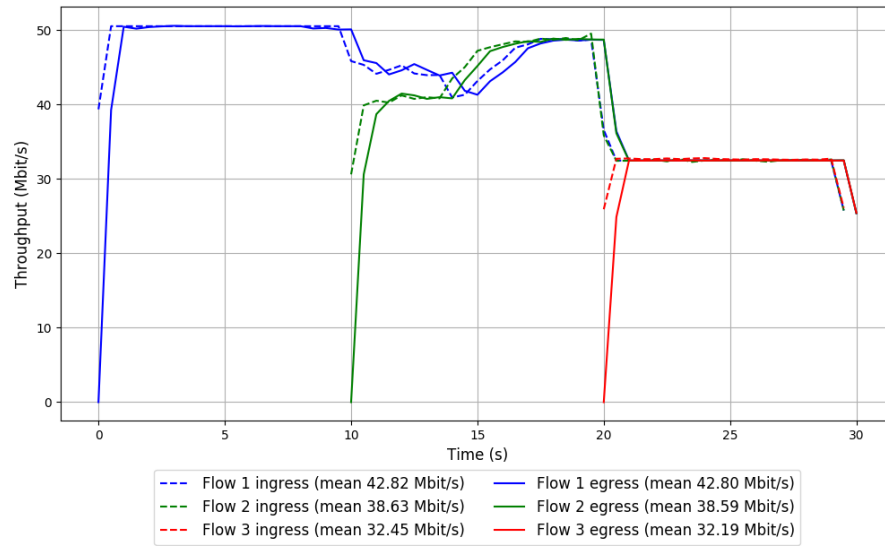


Run 4: Statistics of Sprout

Start at: 2018-12-02 15:48:02
End at: 2018-12-02 15:48:32
Local clock offset: -6.162 ms
Remote clock offset: 0.372 ms

```
# Below is generated by plot.py at 2018-12-02 16:41:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.10 Mbit/s
95th percentile per-packet one-way delay: 24.463 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 42.80 Mbit/s
95th percentile per-packet one-way delay: 22.567 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 38.59 Mbit/s
95th percentile per-packet one-way delay: 24.170 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 26.697 ms
Loss rate: 0.82%
```

Run 4: Report of Sprout — Data Link

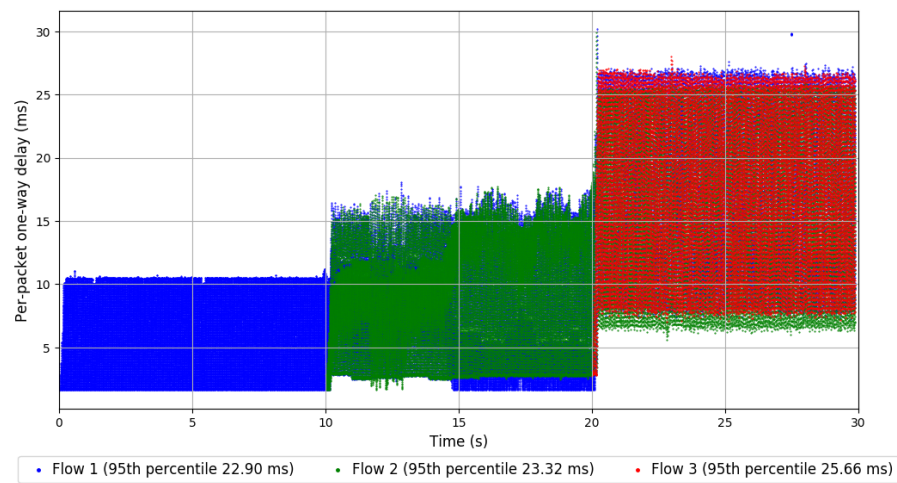
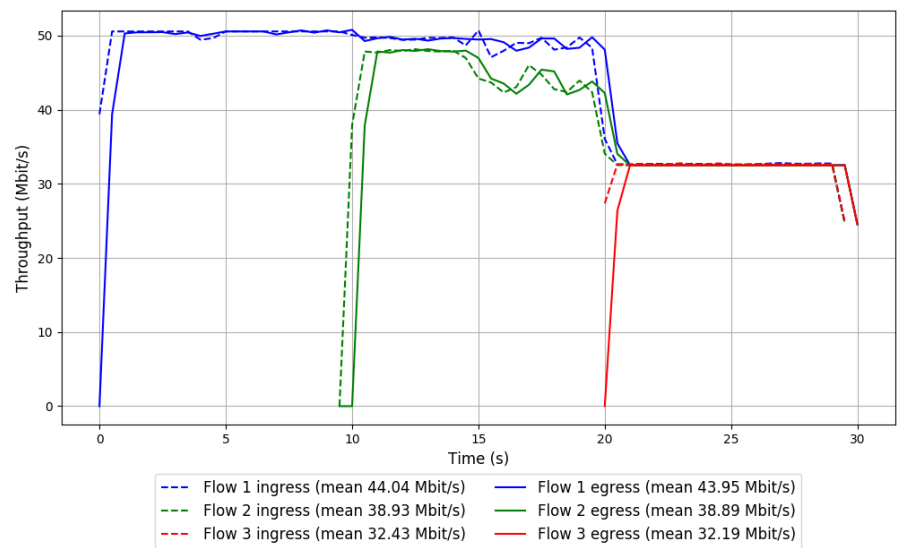


Run 5: Statistics of Sprout

Start at: 2018-12-02 16:09:58
End at: 2018-12-02 16:10:28
Local clock offset: -7.967 ms
Remote clock offset: 0.404 ms

```
# Below is generated by plot.py at 2018-12-02 16:41:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.47 Mbit/s
95th percentile per-packet one-way delay: 23.955 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 22.904 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 23.319 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 25.655 ms
Loss rate: 0.64%
```

Run 5: Report of Sprout — Data Link

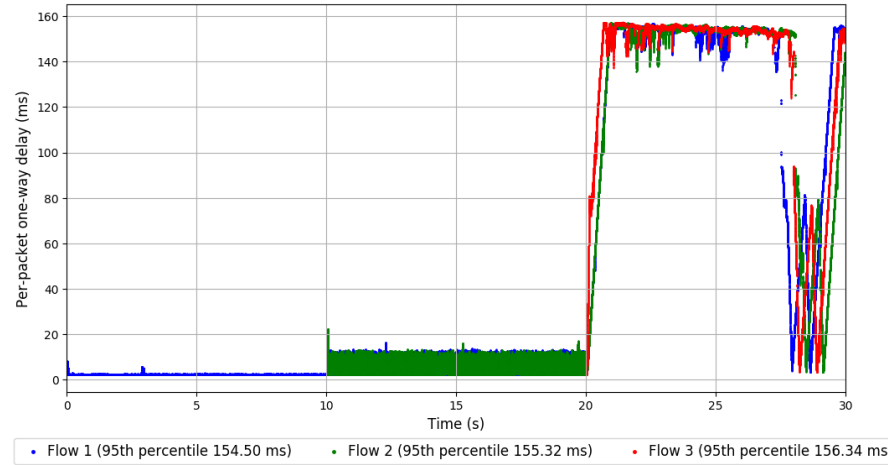
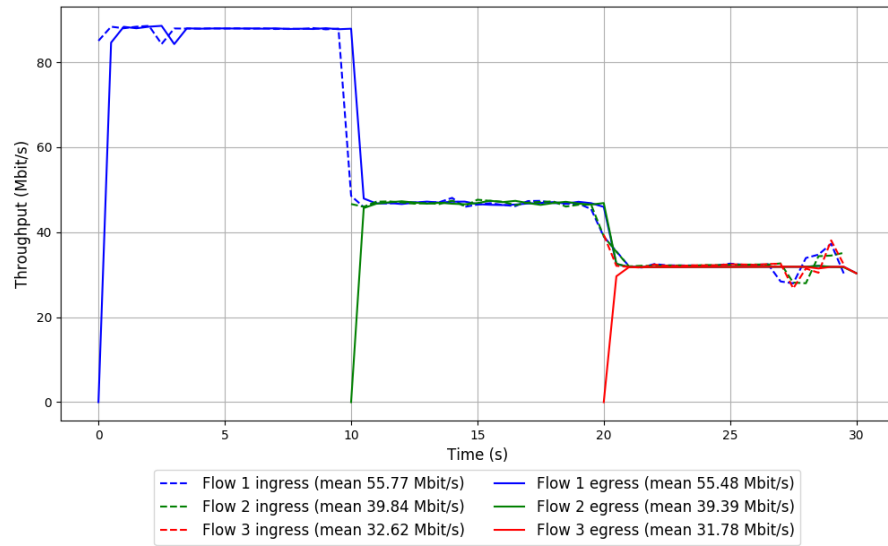


Run 1: Statistics of TaoVA-100x

Start at: 2018-12-02 14:49:21
End at: 2018-12-02 14:49:51
Local clock offset: 0.92 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-12-02 16:43:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.26 Mbit/s
95th percentile per-packet one-way delay: 155.254 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 154.505 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 155.316 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 156.342 ms
Loss rate: 2.61%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-12-02 15:11:15

End at: 2018-12-02 15:11:45

Local clock offset: -0.626 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-12-02 16:43:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.09 Mbit/s

95th percentile per-packet one-way delay: 155.601 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 55.28 Mbit/s

95th percentile per-packet one-way delay: 155.173 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 39.41 Mbit/s

95th percentile per-packet one-way delay: 156.273 ms

Loss rate: 1.04%

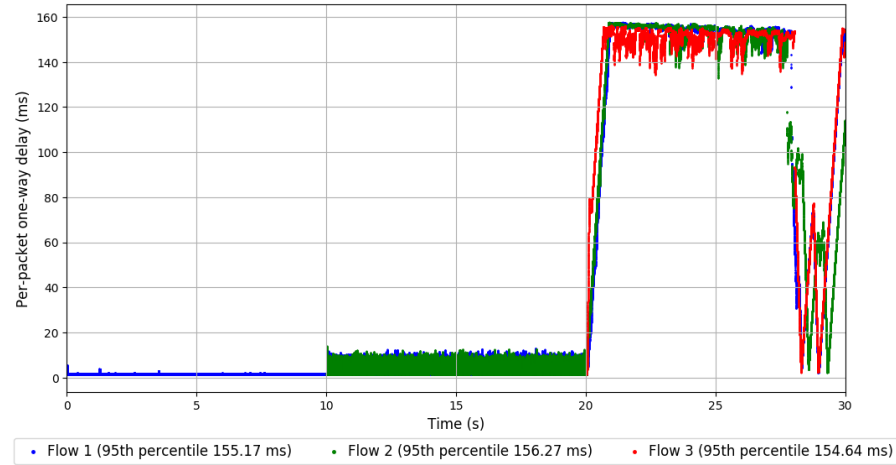
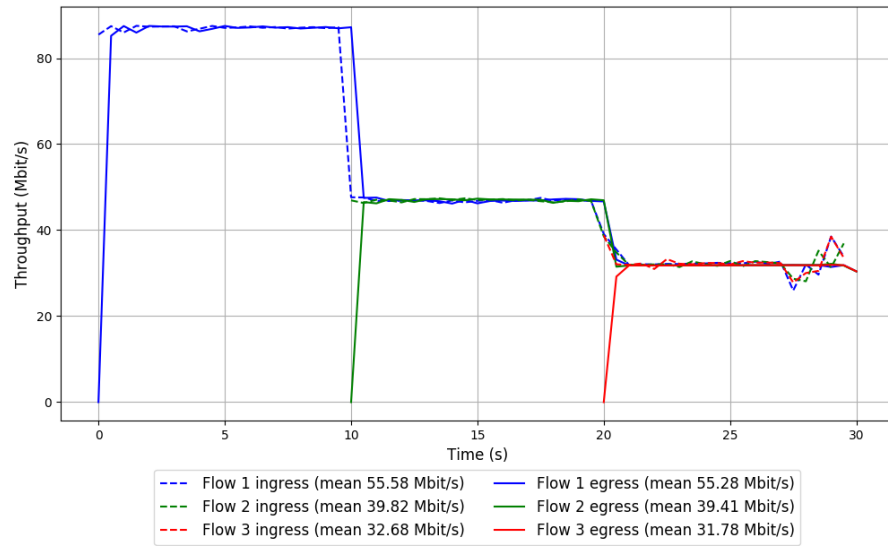
-- Flow 3:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 154.640 ms

Loss rate: 2.78%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-12-02 15:33:09

End at: 2018-12-02 15:33:39

Local clock offset: -4.76 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-12-02 16:43:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 156.579 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 154.342 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 157.184 ms

Loss rate: 1.06%

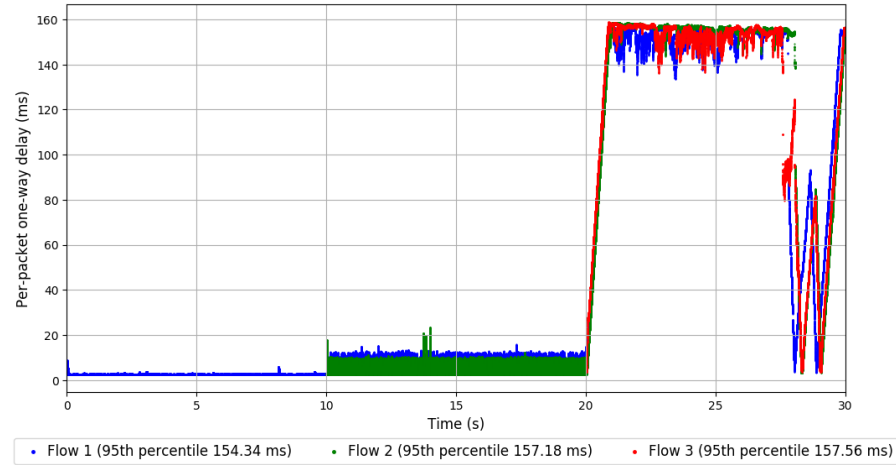
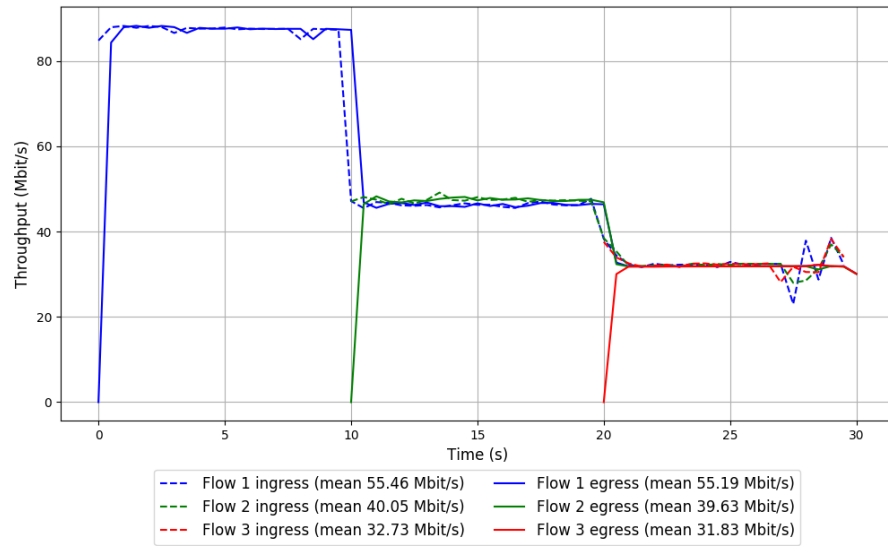
-- Flow 3:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 157.560 ms

Loss rate: 2.79%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-12-02 15:55:05

End at: 2018-12-02 15:55:35

Local clock offset: -6.493 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-12-02 16:43:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 155.387 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 156.099 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 154.810 ms

Loss rate: 1.08%

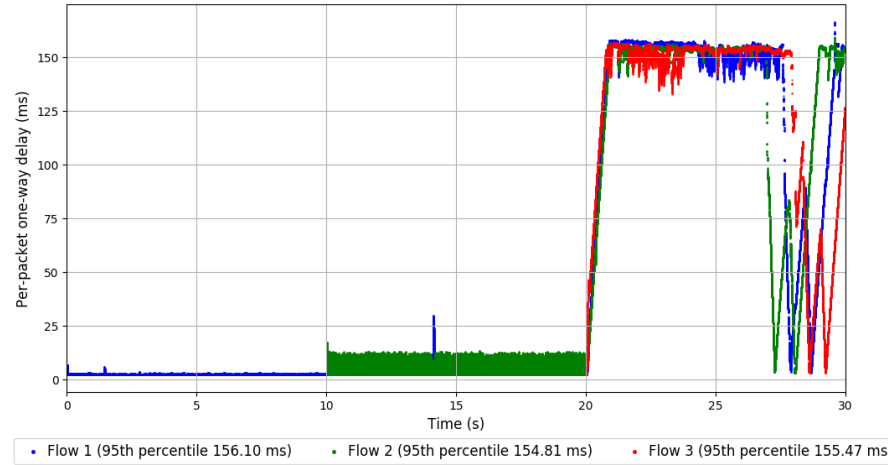
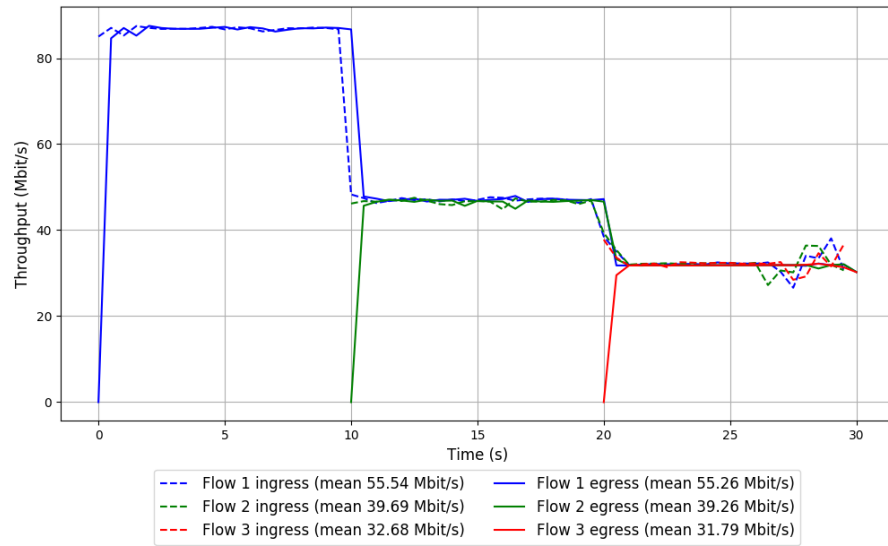
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 155.473 ms

Loss rate: 2.76%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-12-02 16:17:00

End at: 2018-12-02 16:17:30

Local clock offset: -8.206 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2018-12-02 16:43:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 155.126 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 55.28 Mbit/s

95th percentile per-packet one-way delay: 155.475 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 154.692 ms

Loss rate: 1.30%

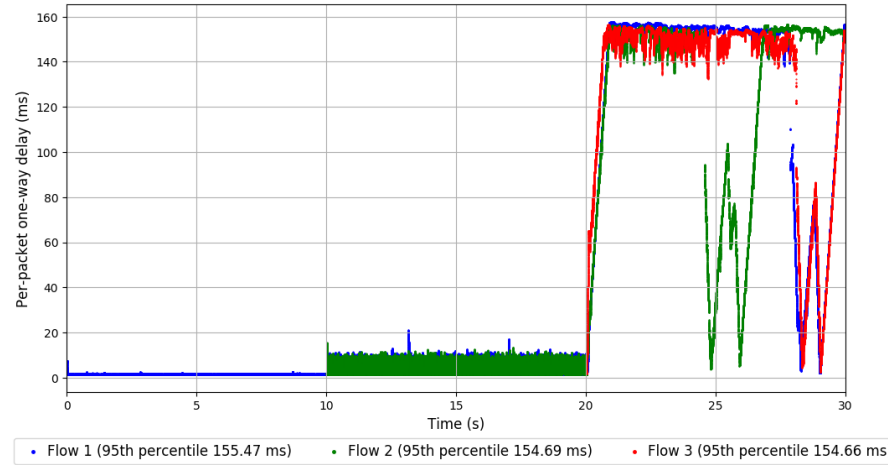
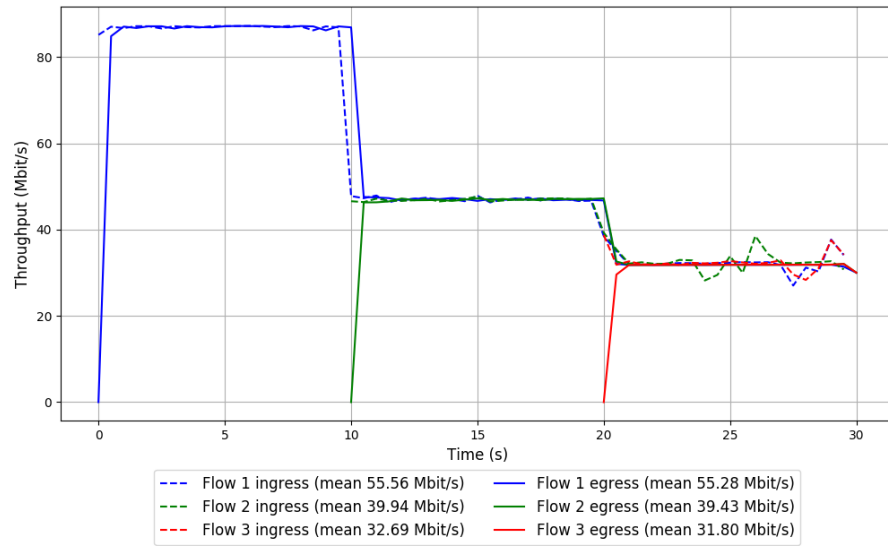
-- Flow 3:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 154.658 ms

Loss rate: 2.76%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-12-02 14:58:34

End at: 2018-12-02 14:59:04

Local clock offset: -0.637 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-12-02 16:43:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 4.521 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 3.680 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.75 Mbit/s

95th percentile per-packet one-way delay: 3.359 ms

Loss rate: 0.01%

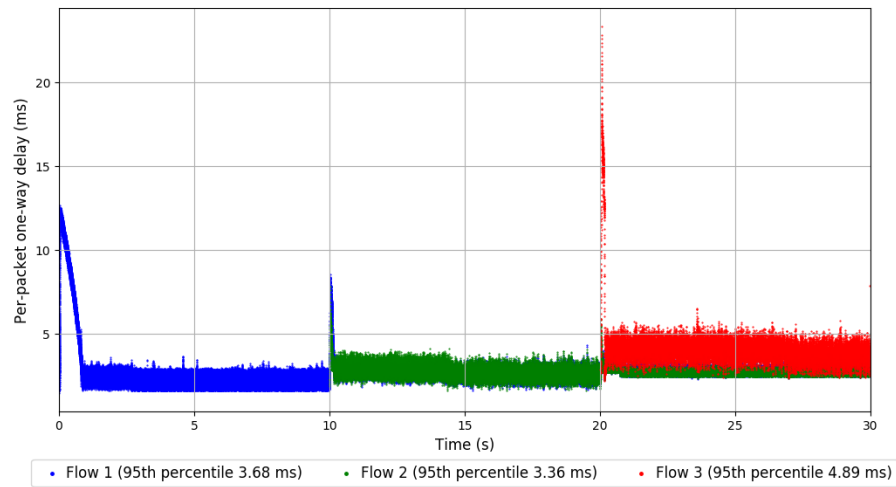
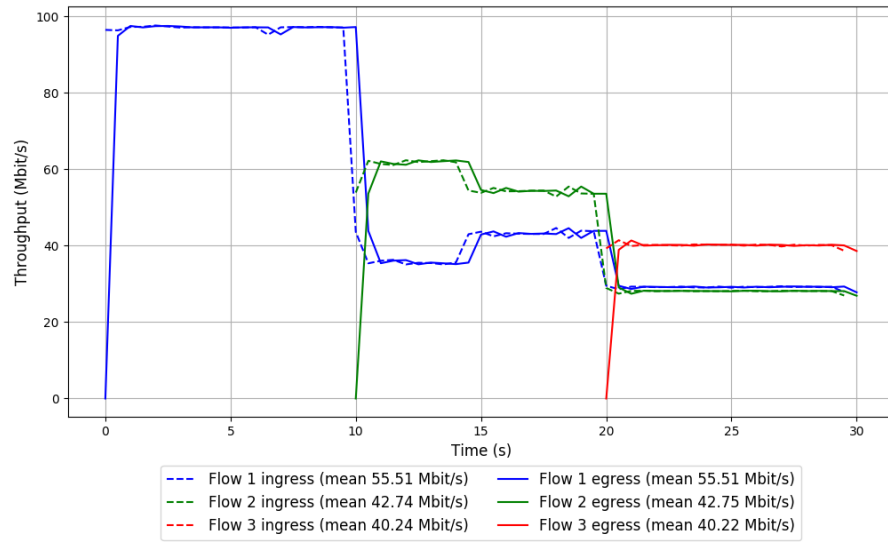
-- Flow 3:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 4.892 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-12-02 15:20:28

End at: 2018-12-02 15:20:58

Local clock offset: -1.211 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-12-02 16:43:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 5.193 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 4.050 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 4.943 ms

Loss rate: 0.02%

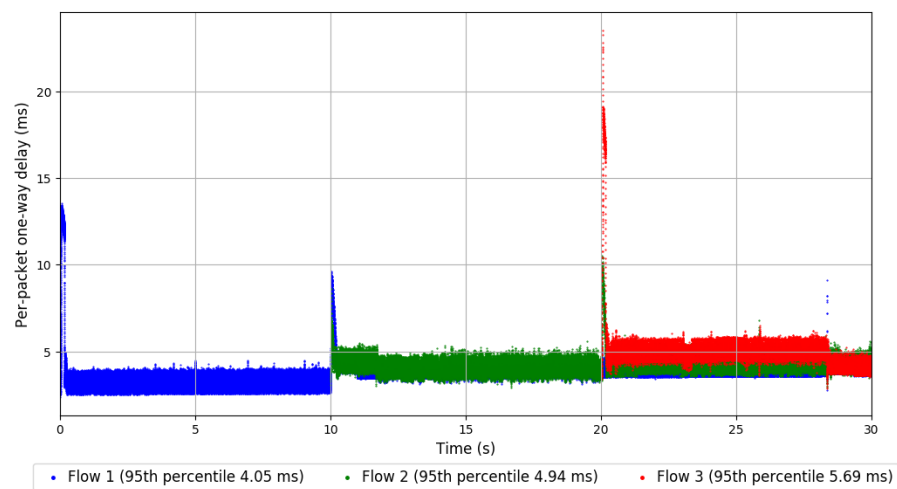
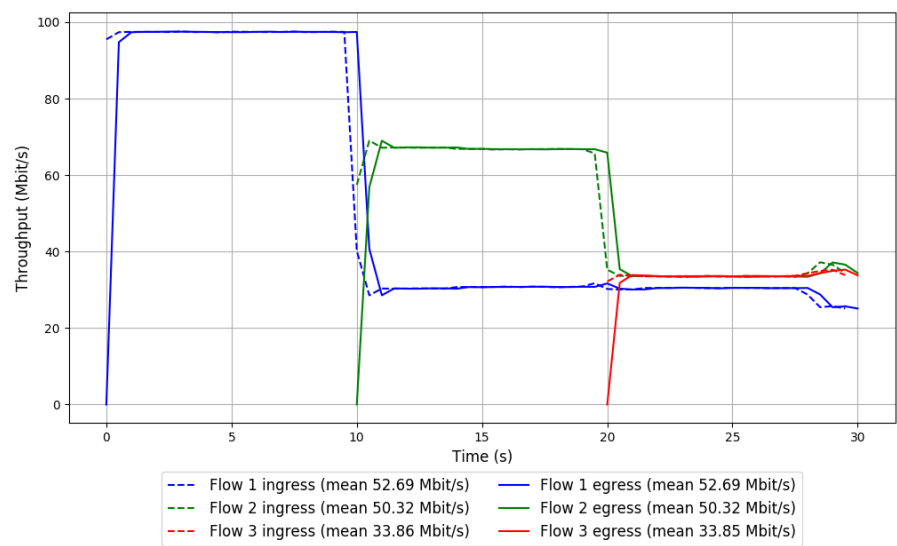
-- Flow 3:

Average throughput: 33.85 Mbit/s

95th percentile per-packet one-way delay: 5.687 ms

Loss rate: 0.05%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-12-02 15:42:22

End at: 2018-12-02 15:42:52

Local clock offset: -5.726 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2018-12-02 16:43:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 4.617 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 3.829 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 4.558 ms

Loss rate: 0.01%

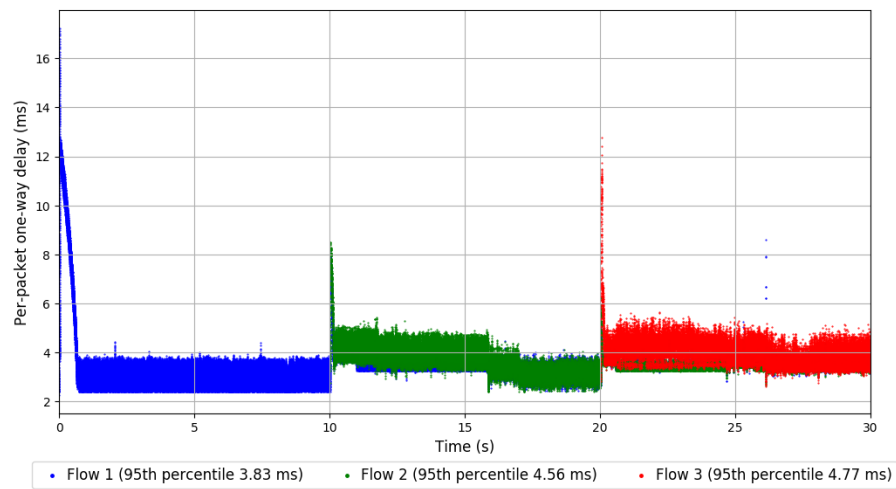
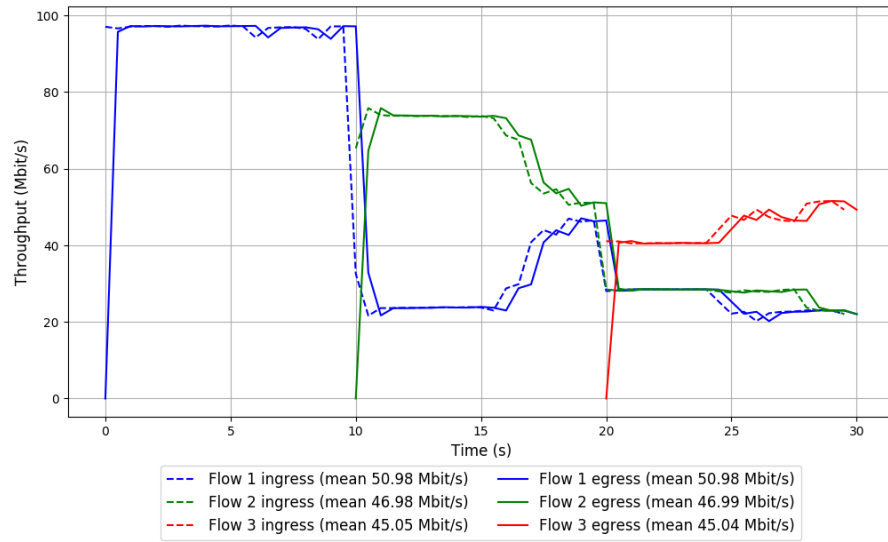
-- Flow 3:

Average throughput: 45.04 Mbit/s

95th percentile per-packet one-way delay: 4.773 ms

Loss rate: 0.05%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-12-02 16:04:18

End at: 2018-12-02 16:04:48

Local clock offset: -7.666 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2018-12-02 16:43:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 4.176 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 3.008 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 3.761 ms

Loss rate: 0.01%

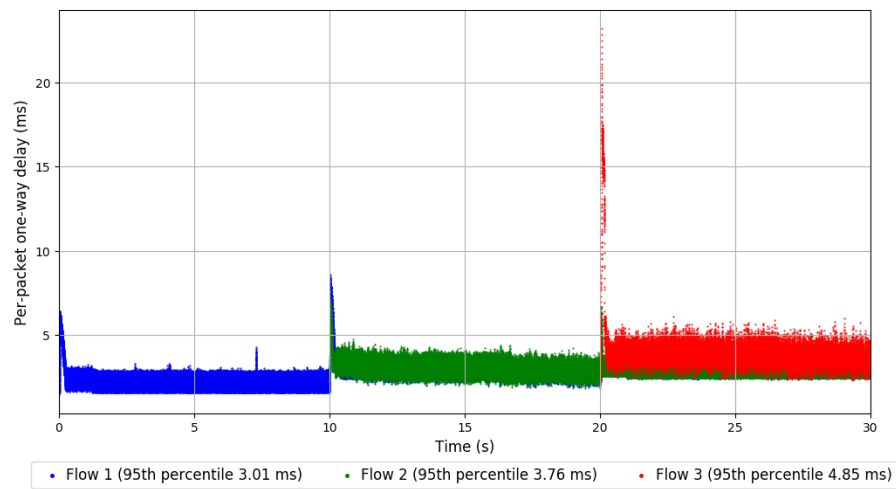
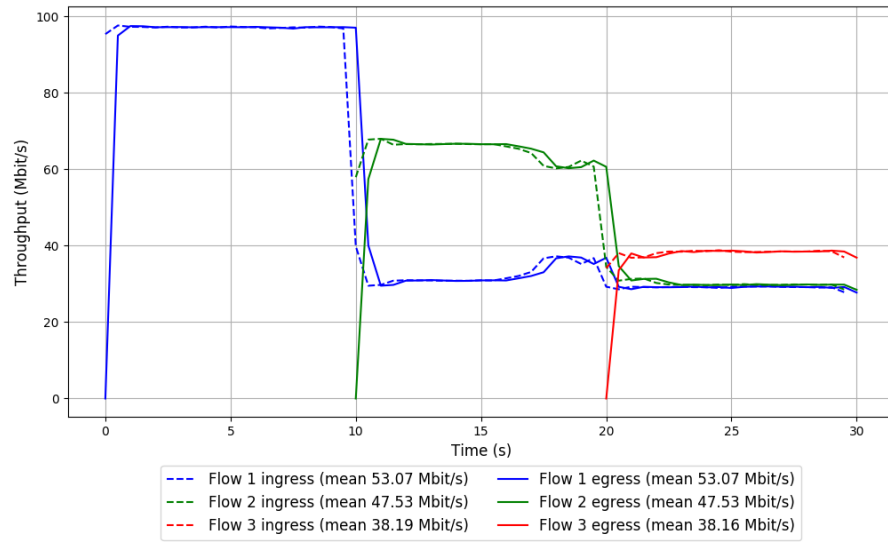
-- Flow 3:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 4.850 ms

Loss rate: 0.09%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-02 16:26:13

End at: 2018-12-02 16:26:44

Local clock offset: 0.57 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2018-12-02 16:43:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 3.277 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 2.622 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.42 Mbit/s

95th percentile per-packet one-way delay: 2.931 ms

Loss rate: 0.01%

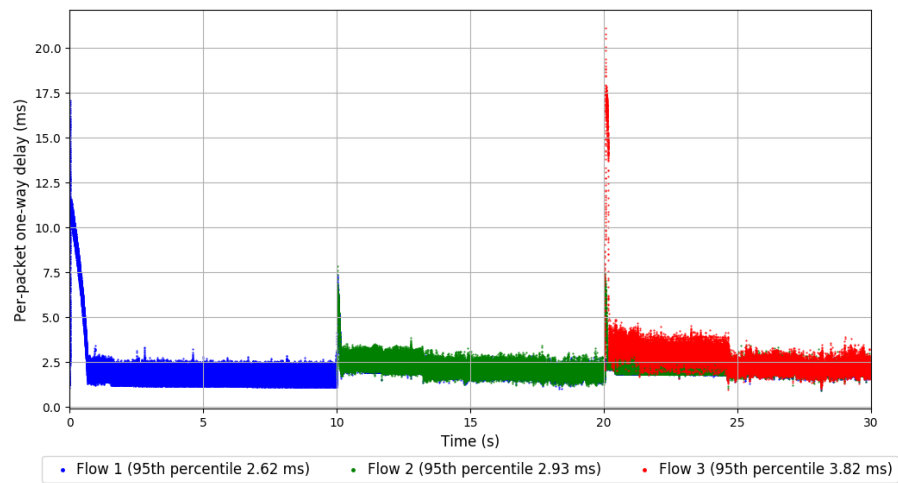
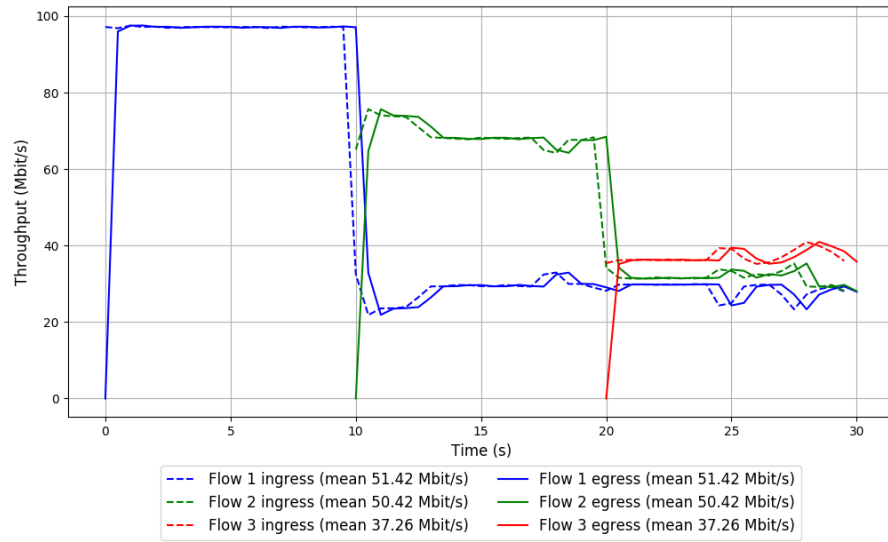
-- Flow 3:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 3.819 ms

Loss rate: 0.04%

Run 5: Report of TCP Vegas — Data Link

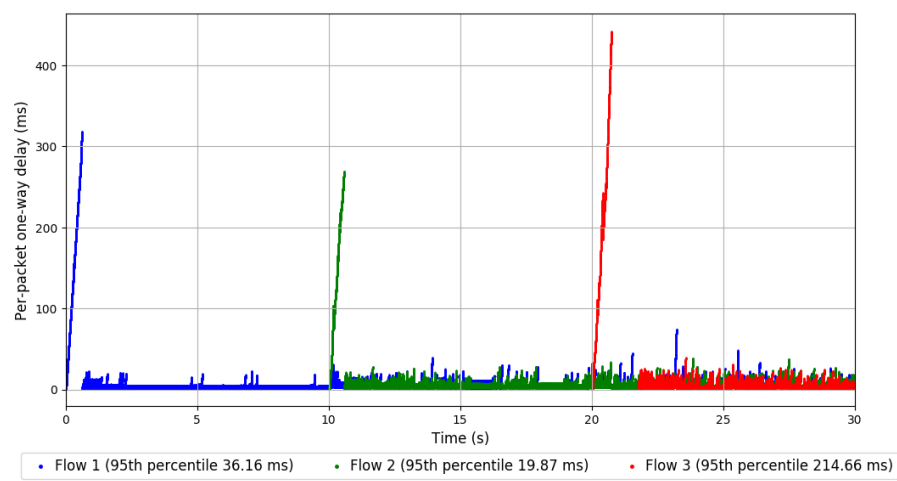
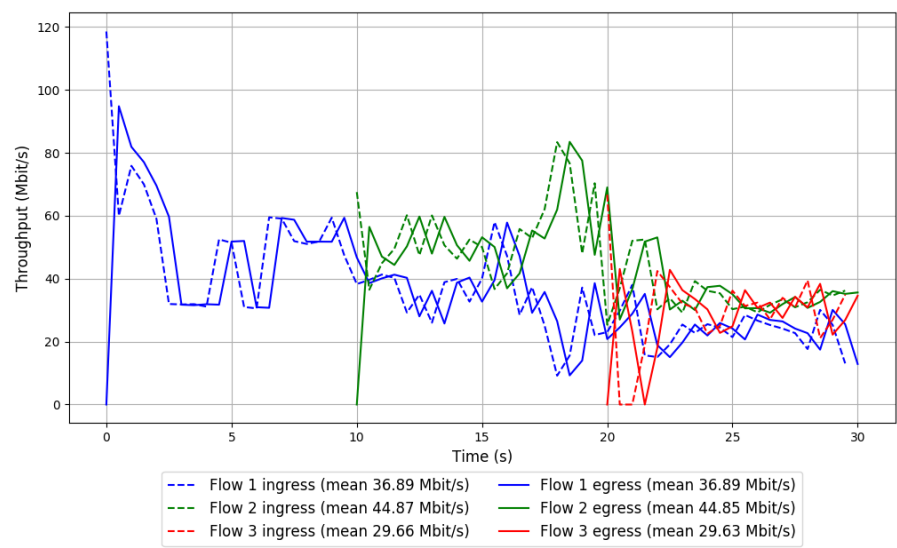


Run 1: Statistics of Verus

Start at: 2018-12-02 14:48:12
End at: 2018-12-02 14:48:42
Local clock offset: 0.397 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2018-12-02 16:44:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 35.951 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 36.89 Mbit/s
95th percentile per-packet one-way delay: 36.159 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 44.85 Mbit/s
95th percentile per-packet one-way delay: 19.867 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 214.655 ms
Loss rate: 0.14%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-02 15:10:06

End at: 2018-12-02 15:10:36

Local clock offset: 0.168 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-12-02 16:44:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 27.024 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 43.07 Mbit/s

95th percentile per-packet one-way delay: 22.013 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 26.061 ms

Loss rate: 0.04%

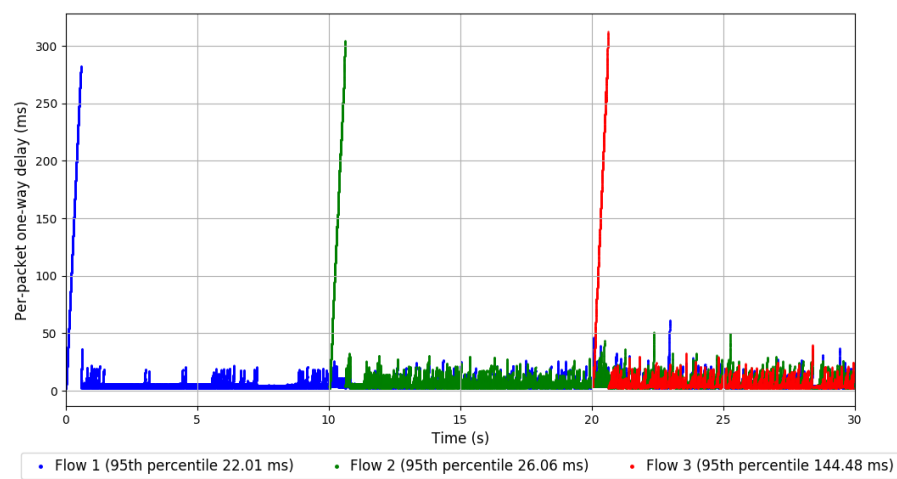
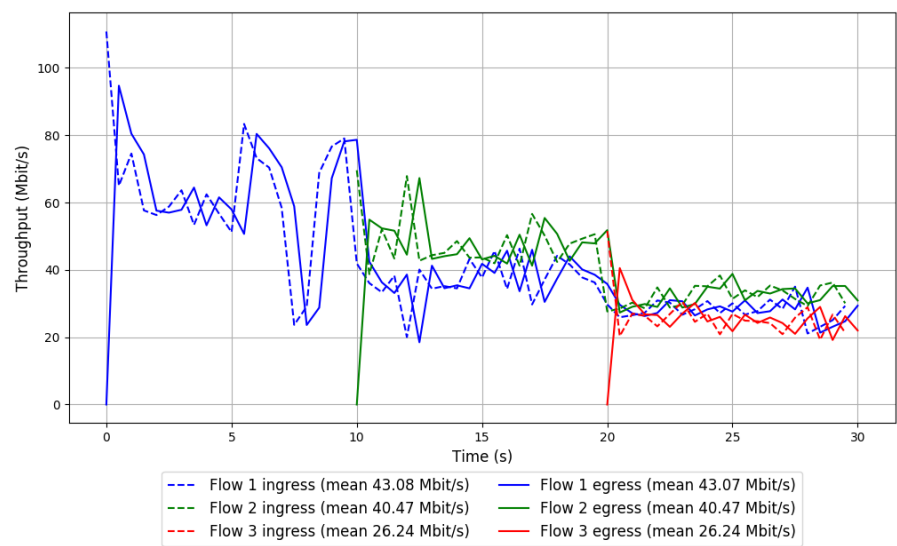
-- Flow 3:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 144.479 ms

Loss rate: 0.05%

Run 2: Report of Verus — Data Link

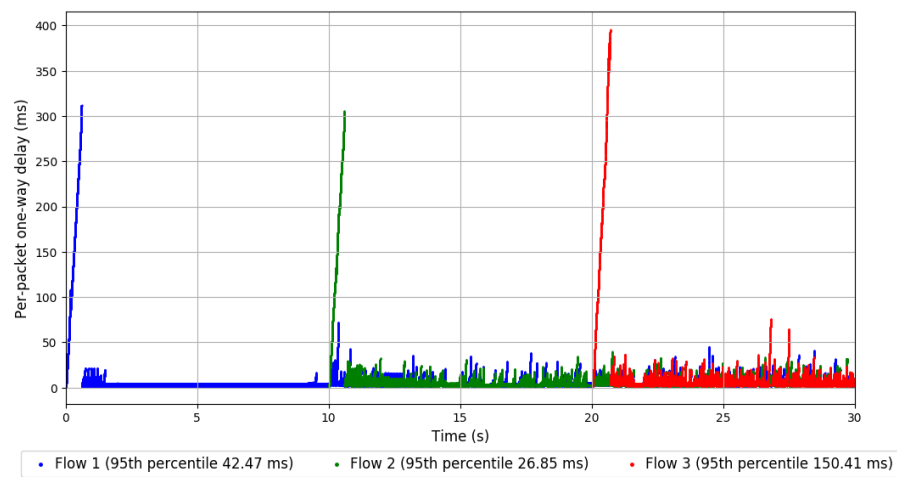
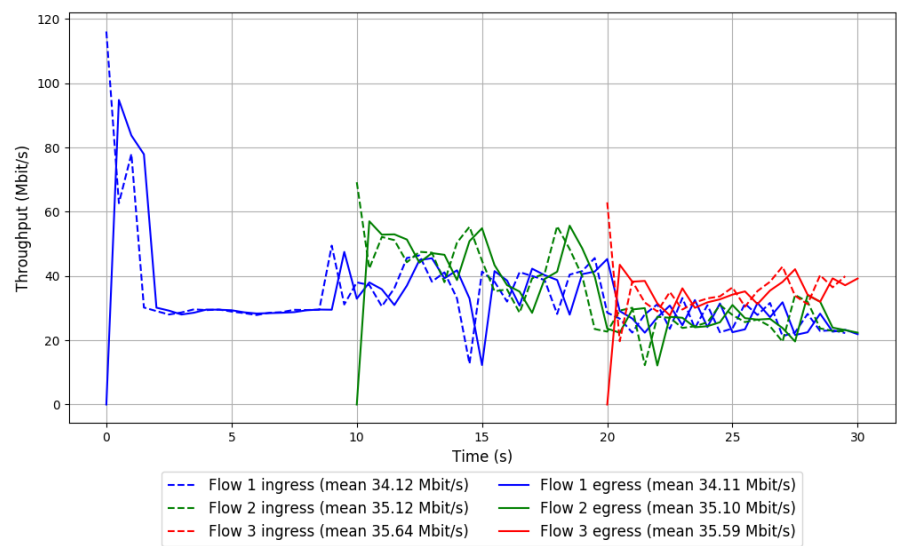


Run 3: Statistics of Verus

Start at: 2018-12-02 15:32:00
End at: 2018-12-02 15:32:30
Local clock offset: -5.351 ms
Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-12-02 16:44:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.31 Mbit/s
95th percentile per-packet one-way delay: 52.029 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 34.11 Mbit/s
95th percentile per-packet one-way delay: 42.465 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.10 Mbit/s
95th percentile per-packet one-way delay: 26.850 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 35.59 Mbit/s
95th percentile per-packet one-way delay: 150.406 ms
Loss rate: 0.20%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-12-02 15:53:55

End at: 2018-12-02 15:54:25

Local clock offset: -6.513 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-12-02 16:44:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 26.347 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 22.757 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 21.285 ms

Loss rate: 0.06%

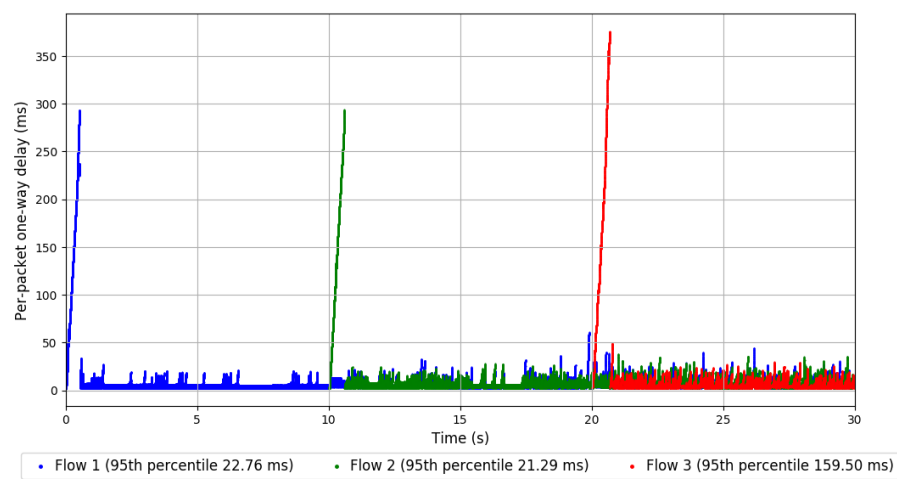
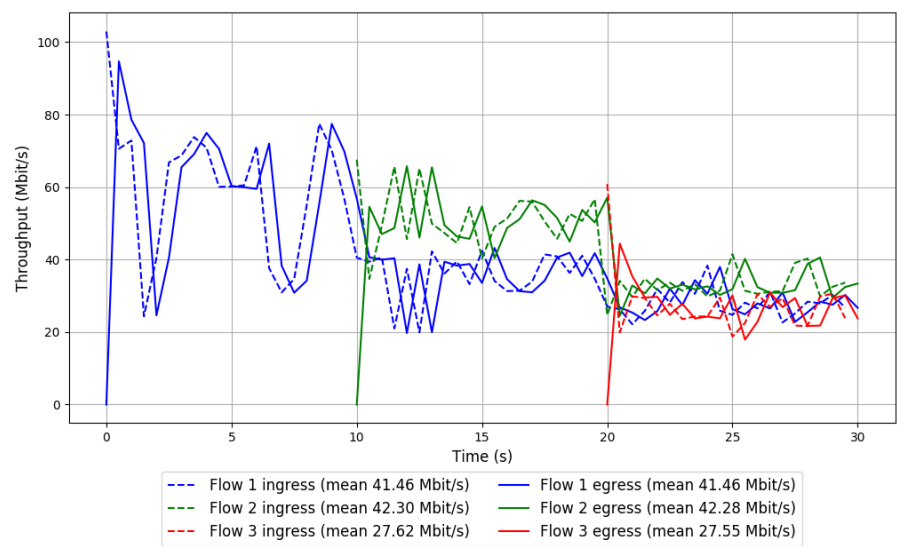
-- Flow 3:

Average throughput: 27.55 Mbit/s

95th percentile per-packet one-way delay: 159.499 ms

Loss rate: 0.29%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-12-02 16:15:50

End at: 2018-12-02 16:16:20

Local clock offset: -7.401 ms

Remote clock offset: 0.513 ms

Below is generated by plot.py at 2018-12-02 16:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.06 Mbit/s

95th percentile per-packet one-way delay: 27.454 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 45.54 Mbit/s

95th percentile per-packet one-way delay: 26.554 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 20.001 ms

Loss rate: 0.04%

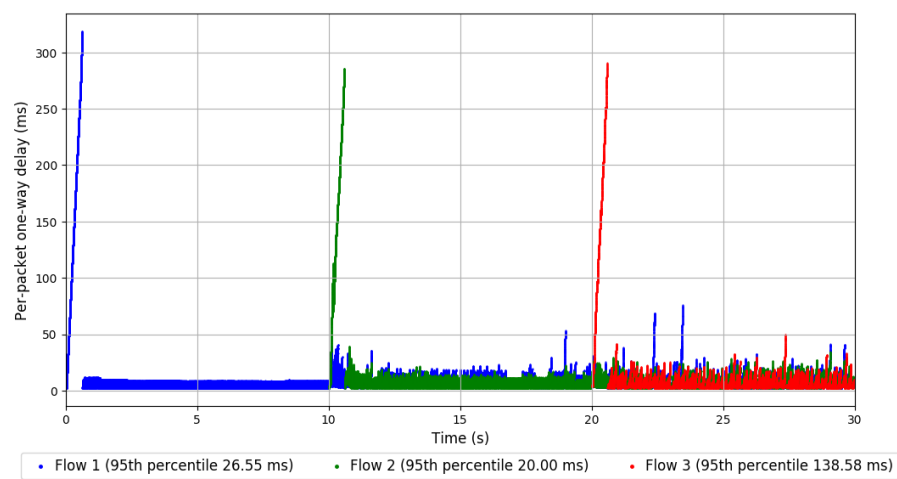
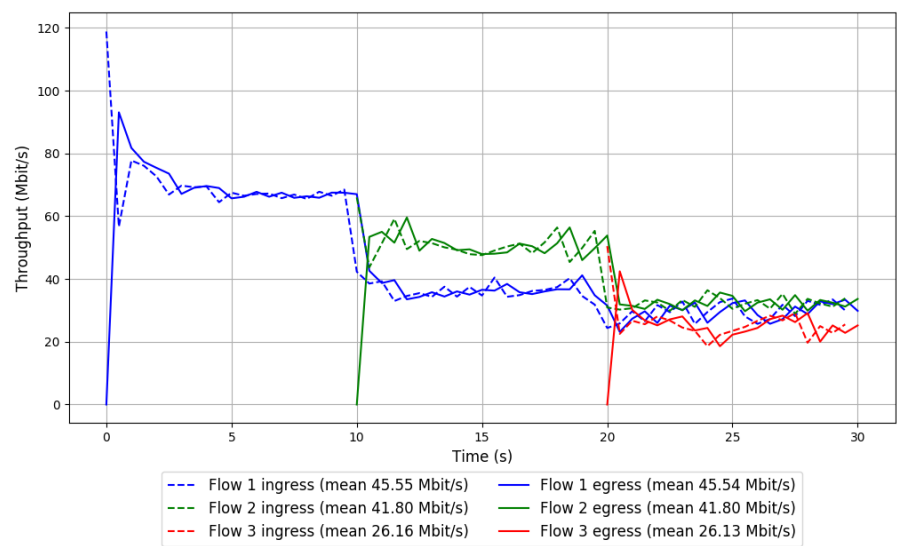
-- Flow 3:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 138.576 ms

Loss rate: 0.12%

Run 5: Report of Verus — Data Link

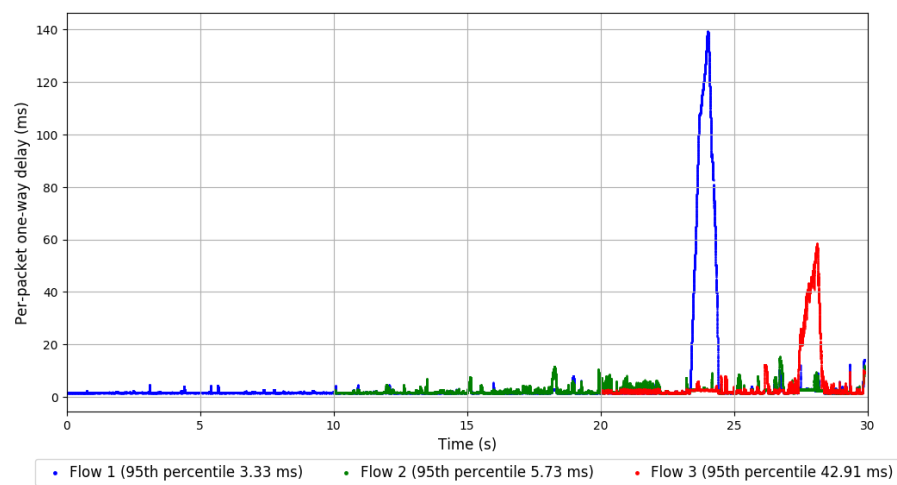
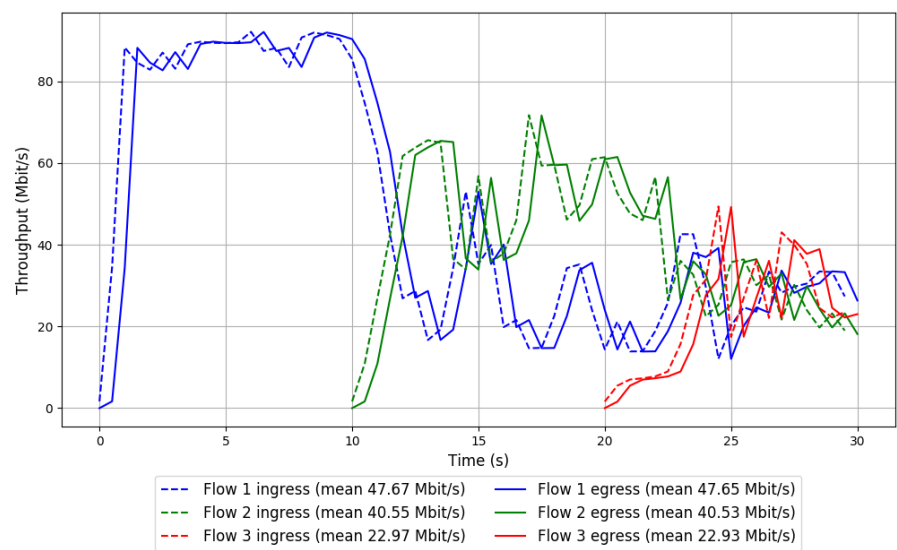


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-02 14:45:50
End at: 2018-12-02 14:46:20
Local clock offset: 0.268 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-12-02 16:44:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.17 Mbit/s
95th percentile per-packet one-way delay: 6.452 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 3.330 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.53 Mbit/s
95th percentile per-packet one-way delay: 5.730 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 42.905 ms
Loss rate: 0.25%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-12-02 15:07:44

End at: 2018-12-02 15:08:14

Local clock offset: -0.64 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-12-02 16:44:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.17 Mbit/s

95th percentile per-packet one-way delay: 5.699 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 2.843 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 10.873 ms

Loss rate: 0.02%

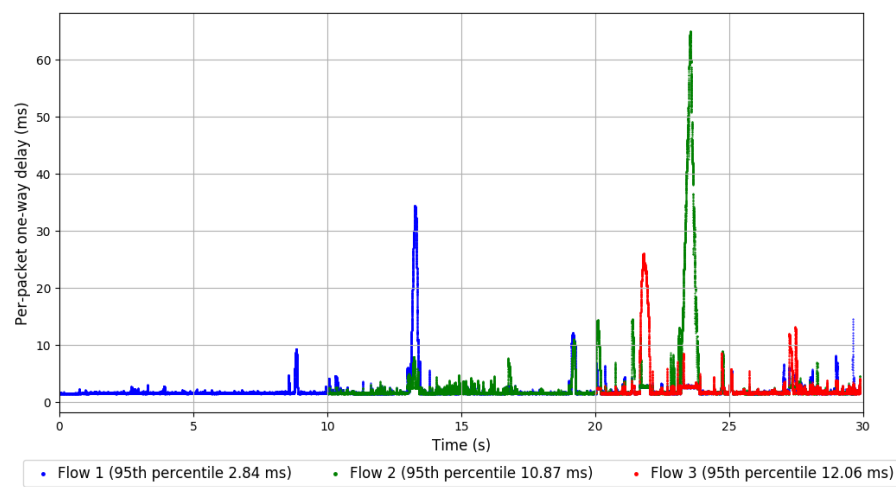
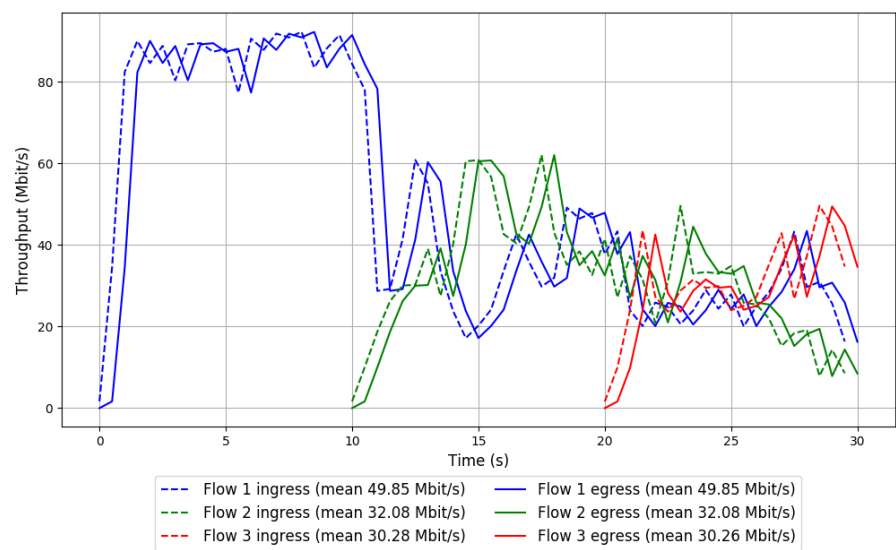
-- Flow 3:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 12.056 ms

Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-12-02 15:29:38

End at: 2018-12-02 15:30:08

Local clock offset: -4.912 ms

Remote clock offset: 0.296 ms

Below is generated by plot.py at 2018-12-02 16:44:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 4.955 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 58.16 Mbit/s

95th percentile per-packet one-way delay: 3.875 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 5.541 ms

Loss rate: 0.01%

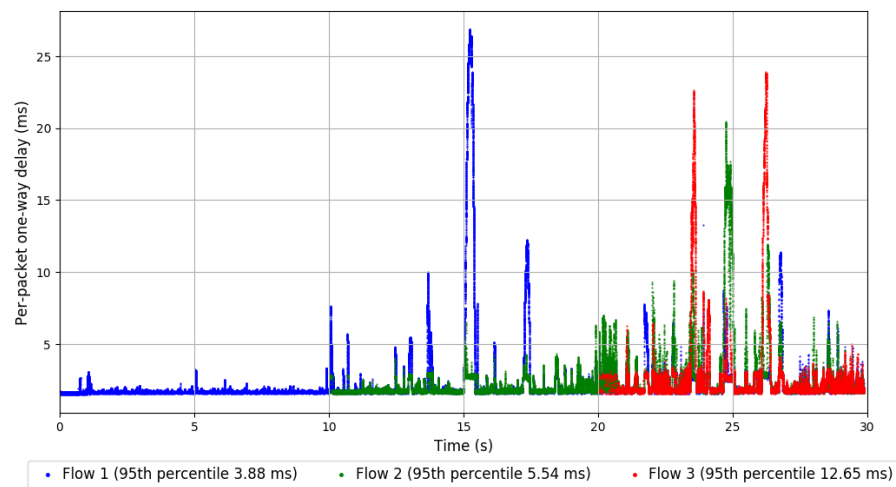
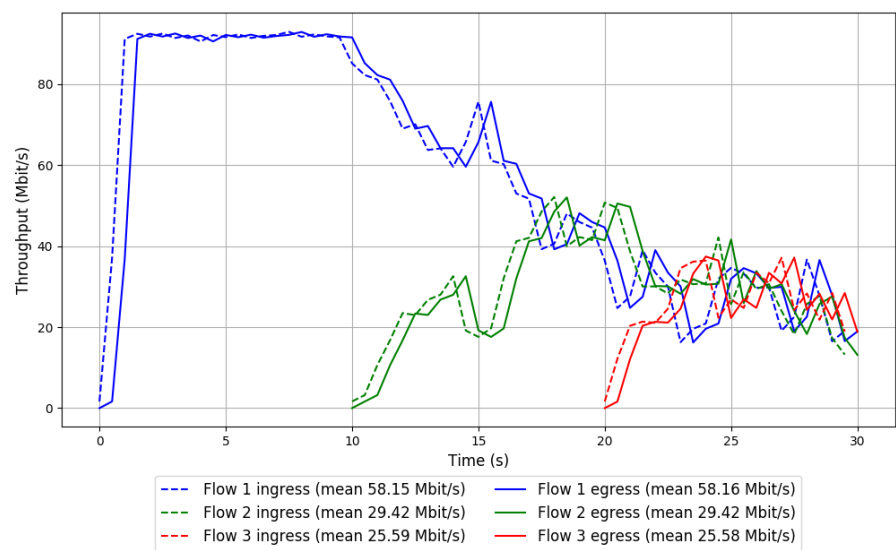
-- Flow 3:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 12.646 ms

Loss rate: 0.05%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-12-02 15:51:32

End at: 2018-12-02 15:52:02

Local clock offset: -7.073 ms

Remote clock offset: 0.36 ms

Below is generated by plot.py at 2018-12-02 16:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 1827.807 ms

Loss rate: 3.94%

-- Flow 1:

Average throughput: 56.92 Mbit/s

95th percentile per-packet one-way delay: 1857.146 ms

Loss rate: 4.99%

-- Flow 2:

Average throughput: 39.46 Mbit/s

95th percentile per-packet one-way delay: 730.864 ms

Loss rate: 2.78%

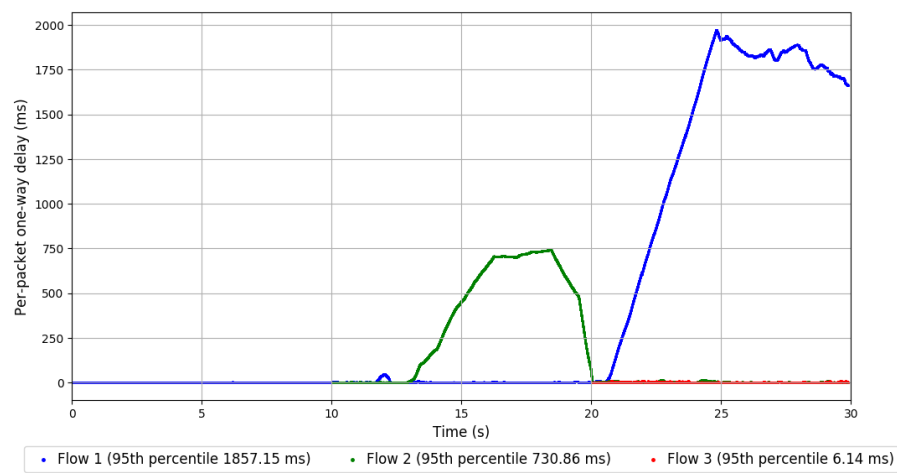
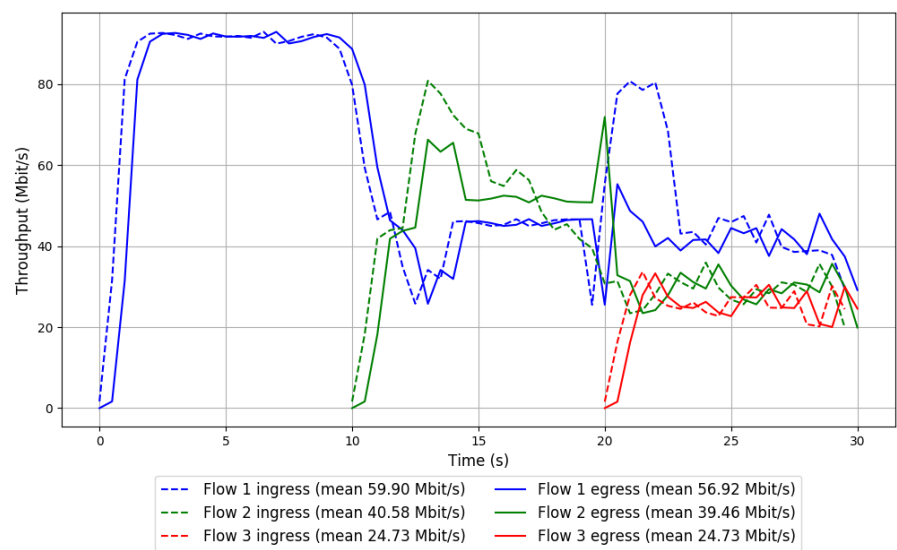
-- Flow 3:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 6.144 ms

Loss rate: 0.05%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-12-02 16:13:27

End at: 2018-12-02 16:13:57

Local clock offset: -7.349 ms

Remote clock offset: 0.441 ms

Below is generated by plot.py at 2018-12-02 16:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.35 Mbit/s

95th percentile per-packet one-way delay: 5.109 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 3.510 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 9.056 ms

Loss rate: 0.02%

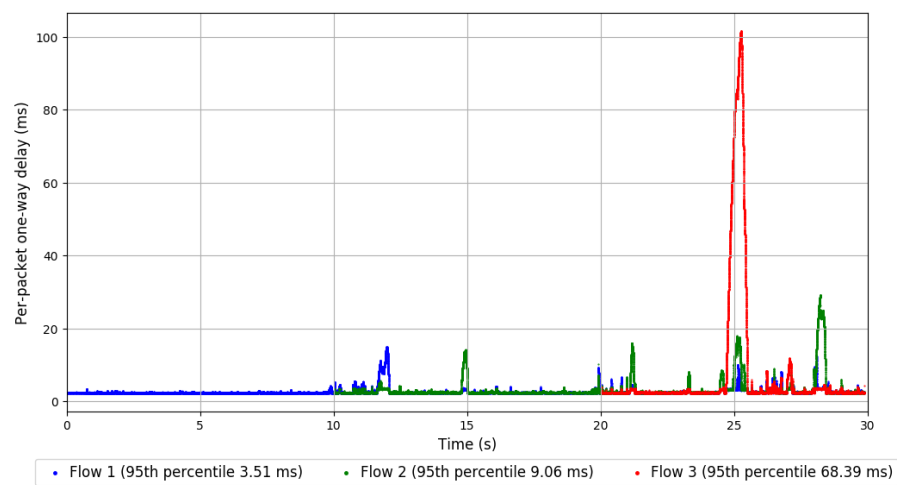
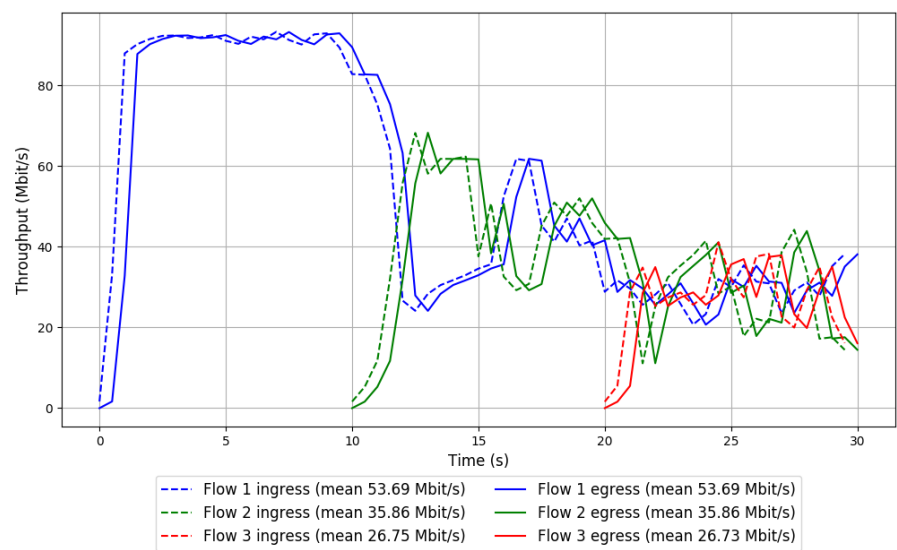
-- Flow 3:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 68.390 ms

Loss rate: 0.11%

Run 5: Report of PCC-Vivace — Data Link

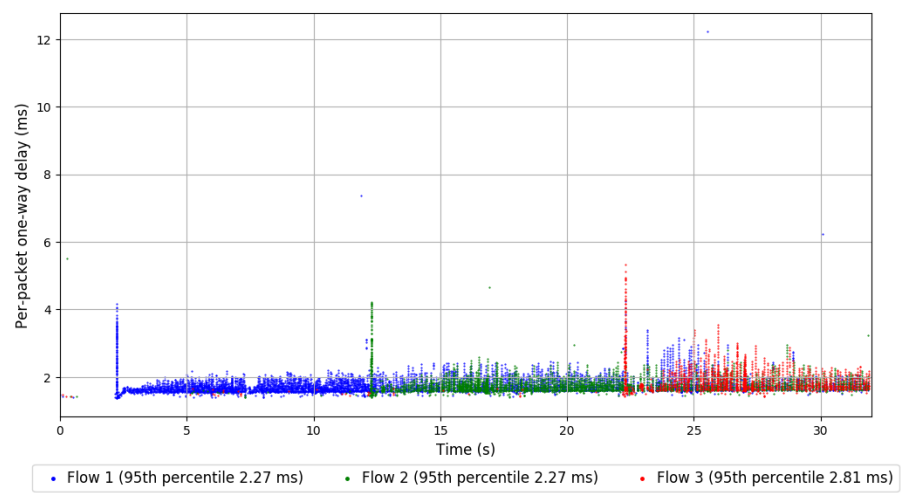
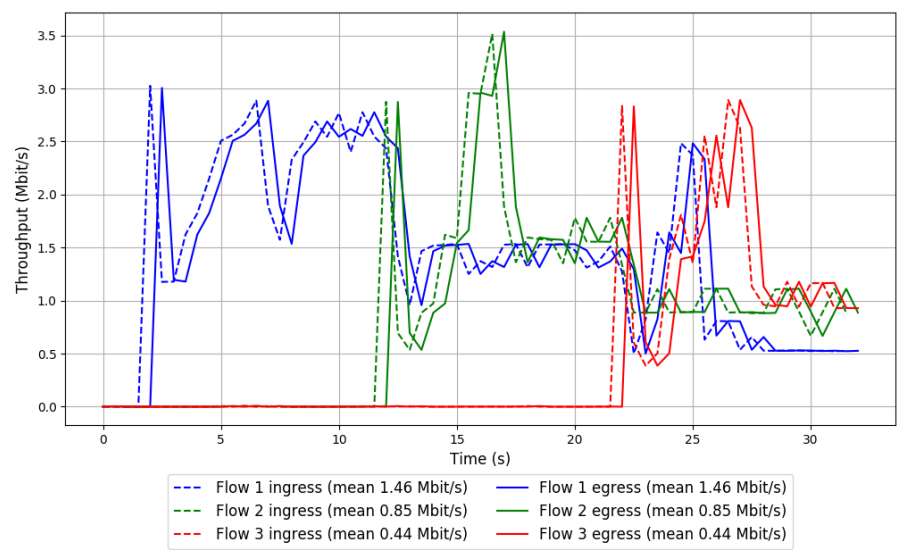


Run 1: Statistics of WebRTC media

Start at: 2018-12-02 14:51:43
End at: 2018-12-02 14:52:13
Local clock offset: -0.242 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-12-02 16:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 2.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 2.269 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 2.273 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.814 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-02 15:13:37

End at: 2018-12-02 15:14:07

Local clock offset: -0.49 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-12-02 16:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 2.413 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 2.380 ms

Loss rate: 0.00%

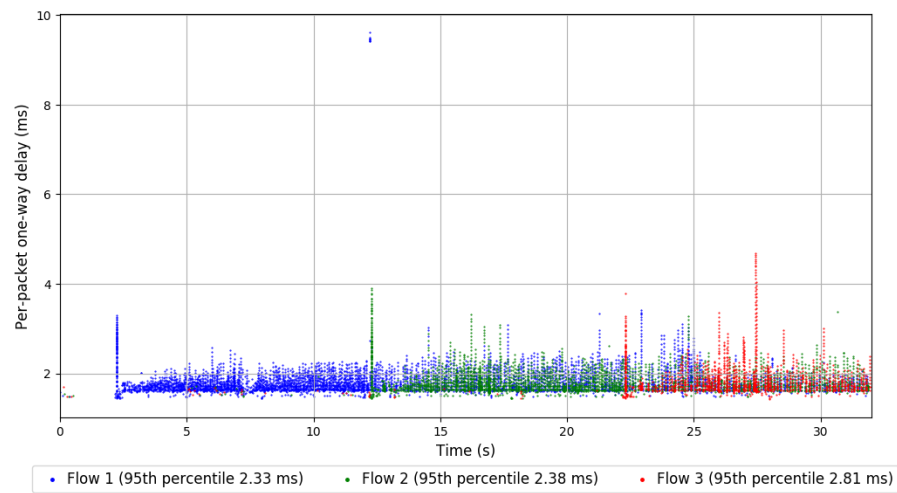
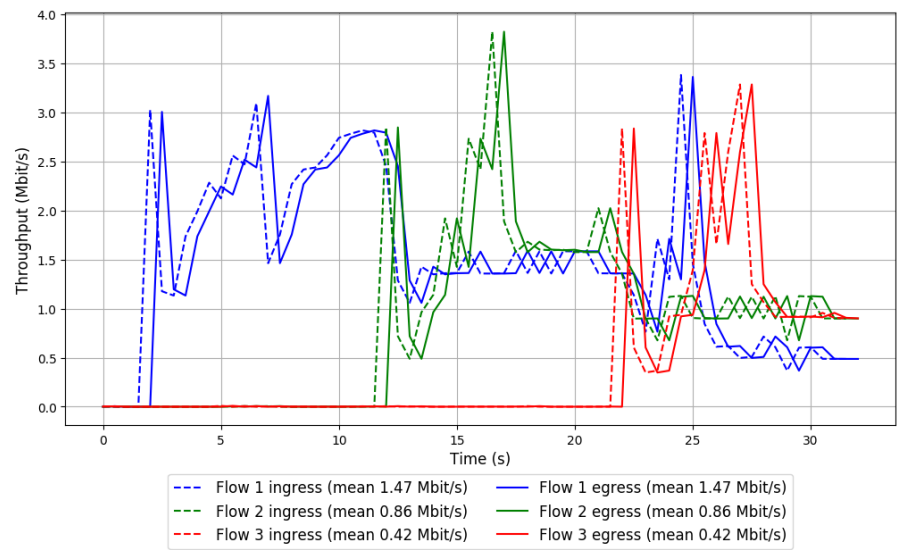
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 2.807 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-12-02 15:35:30

End at: 2018-12-02 15:36:01

Local clock offset: -5.844 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-12-02 16:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 2.476 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 2.401 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 2.469 ms

Loss rate: 0.00%

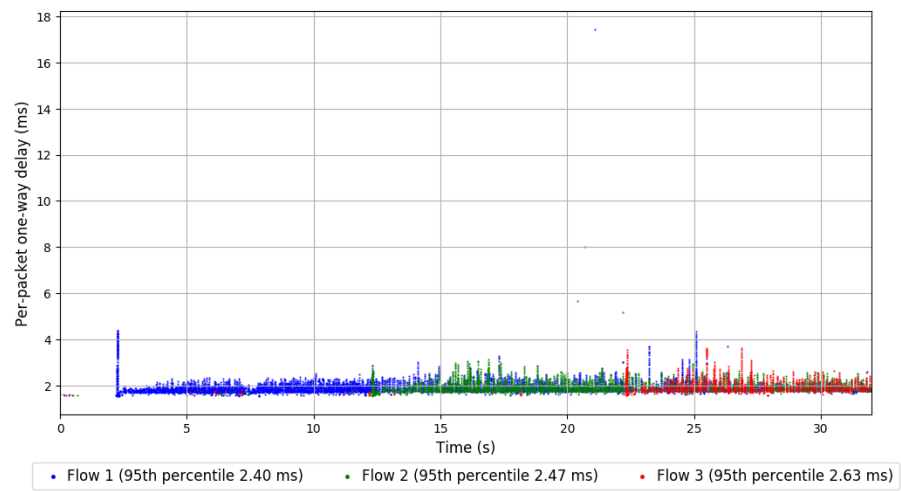
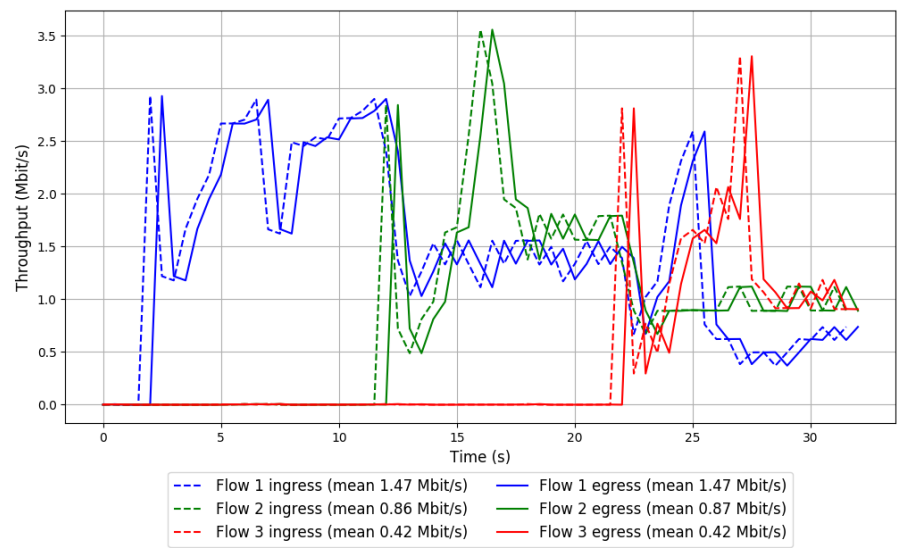
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 2.626 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-12-02 15:57:26

End at: 2018-12-02 15:57:56

Local clock offset: -6.684 ms

Remote clock offset: 0.413 ms

Below is generated by plot.py at 2018-12-02 16:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 3.028 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 3.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 2.983 ms

Loss rate: 0.00%

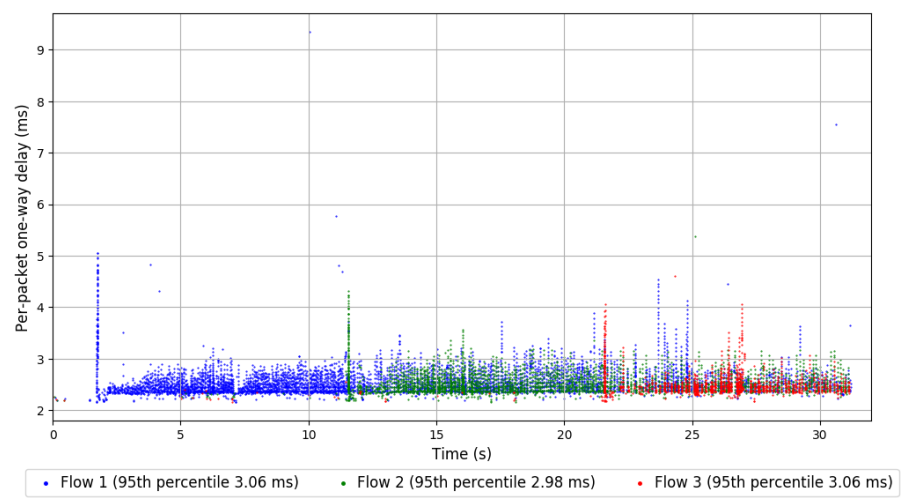
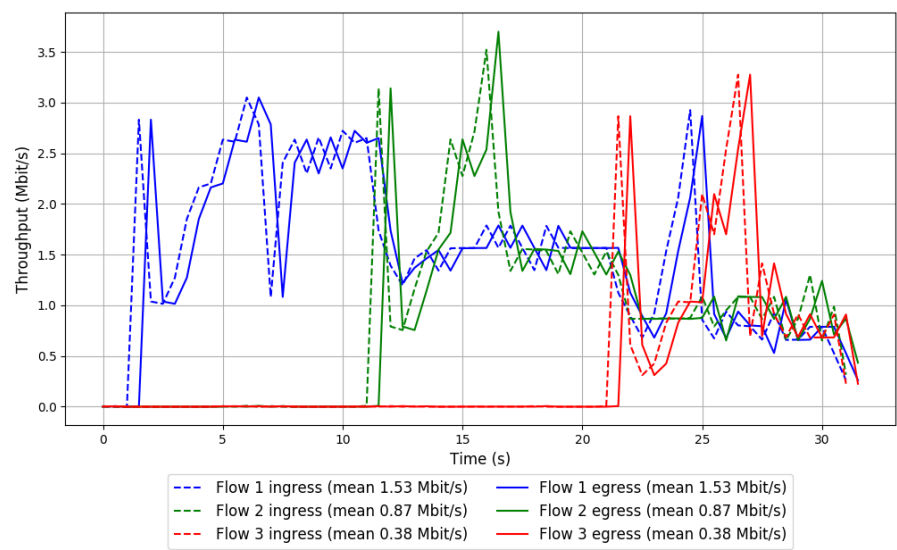
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 3.063 ms

Loss rate: 0.01%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-02 16:19:21

End at: 2018-12-02 16:19:51

Local clock offset: -6.154 ms

Remote clock offset: 0.486 ms

Below is generated by plot.py at 2018-12-02 16:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 1.315 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.214 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

