

Pantheon Report

Generated at 2018-09-25 10:12:40 (UTC).

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

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:

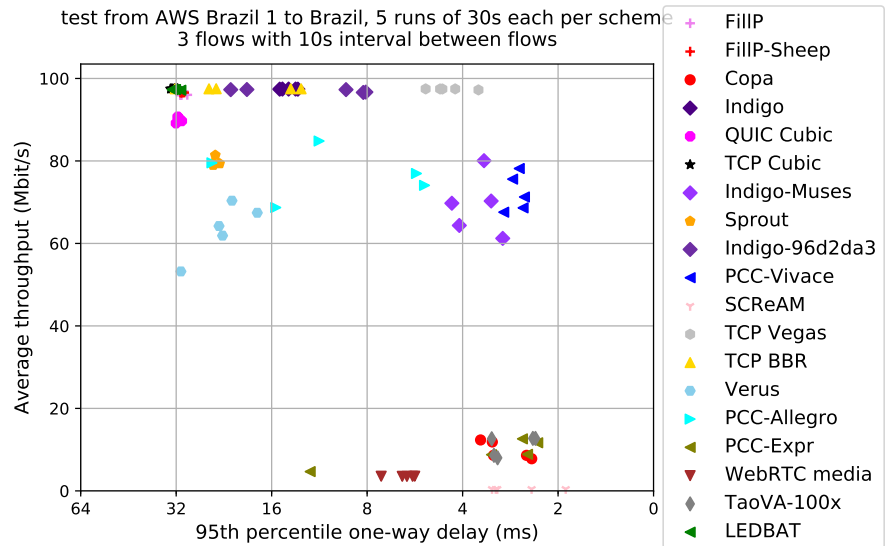
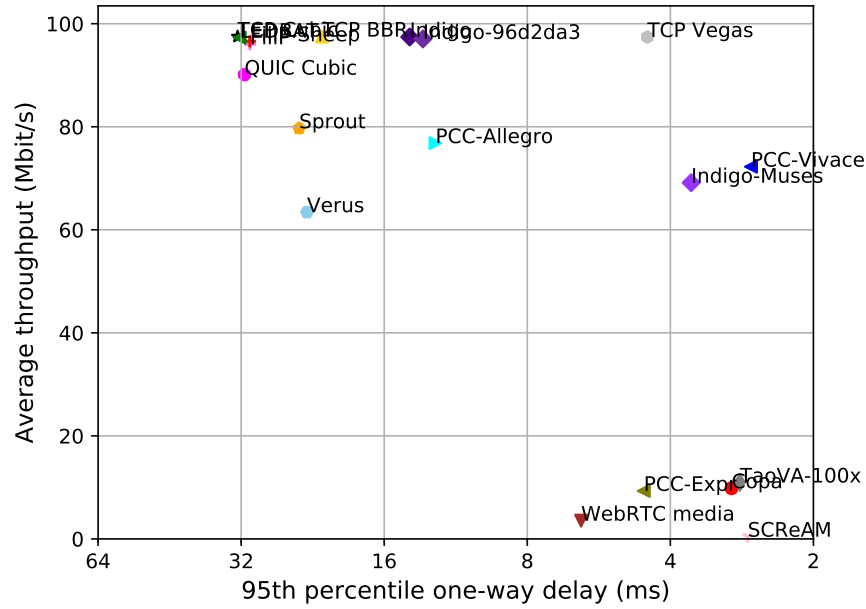
```
Linux 4.15.0-1021-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
net.ipv4.tcp_mem = 184101 245469 368202
```

Git summary:

```
branch: muses @ 90192f6b64ce1a1191dcca0e9ff9ee24950674d7
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
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 @ cbfce6db5ff5740dafe1771f813cd646339e1952
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 AWS Brazil 1 to Brazil, 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	72.38	30.14	15.15	21.37	21.23	24.20	0.09	0.04	0.19
Copa	5	2.62	9.80	4.86	1.94	2.61	3.27	85.42	68.40	67.10
TCP Cubic	5	61.56	39.16	29.73	32.11	32.78	32.84	0.04	0.05	0.05
FillP	5	51.69	47.42	38.53	30.67	29.89	30.49	11.24	21.32	25.59
FillP-Sheep	5	61.67	36.35	32.39	29.66	30.02	30.62	15.53	29.41	33.68
Indigo	5	44.42	47.00	67.04	11.95	13.88	14.20	0.00	0.00	0.00
Indigo-96d2da3	5	51.55	41.54	54.19	10.12	13.46	13.66	0.00	0.00	0.00
LEDBAT	5	60.94	40.59	28.08	32.13	32.27	31.99	0.03	0.05	0.27
Indigo-Muses	5	33.08	37.41	33.82	3.66	3.07	3.26	0.00	0.00	0.00
PCC-Allegro	5	56.79	24.85	10.61	10.96	15.09	18.61	0.01	0.03	0.09
PCC-Expr	5	3.22	7.55	5.09	2.08	5.71	2.28	75.88	36.44	34.55
QUIC Cubic	5	56.14	35.93	30.64	30.82	31.59	31.09	0.17	0.19	0.26
SCReAM	5	0.22	0.22	0.22	2.17	2.46	1.87	0.00	0.00	0.00
Sprout	5	44.10	39.11	29.00	21.34	24.07	26.99	0.00	0.00	0.00
TaoVA-100x	5	4.97	6.67	7.42	2.26	2.57	3.12	90.28	79.79	74.31
TCP Vegas	5	54.87	38.61	50.57	4.03	3.57	4.39	0.00	0.00	0.00
Verus	5	38.78	26.48	21.19	15.00	25.63	31.88	2.85	6.27	10.75
PCC-Vivace	5	37.80	38.73	26.33	1.89	3.14	2.73	0.00	0.00	0.00
WebRTC media	5	1.93	1.25	0.37	6.12	6.03	5.67	0.02	0.01	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-09-25 08:12:35

End at: 2018-09-25 08:13:05

Local clock offset: -4.389 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-09-25 10:02:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 13.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 13.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 14.464 ms

Loss rate: 0.00%

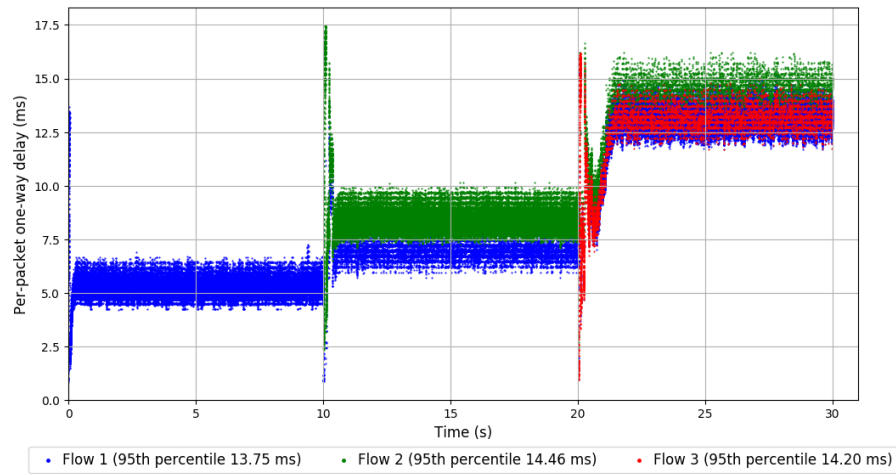
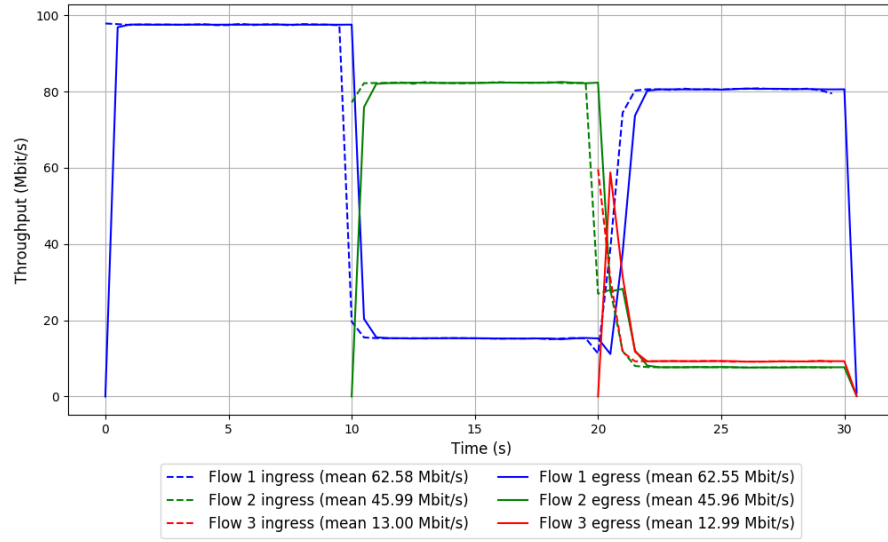
-- Flow 3:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 14.195 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-09-25 08:34:15

End at: 2018-09-25 08:34:45

Local clock offset: -5.264 ms

Remote clock offset: 0.289 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 32.239 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 83.24 Mbit/s

95th percentile per-packet one-way delay: 32.366 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 30.492 ms

Loss rate: 0.17%

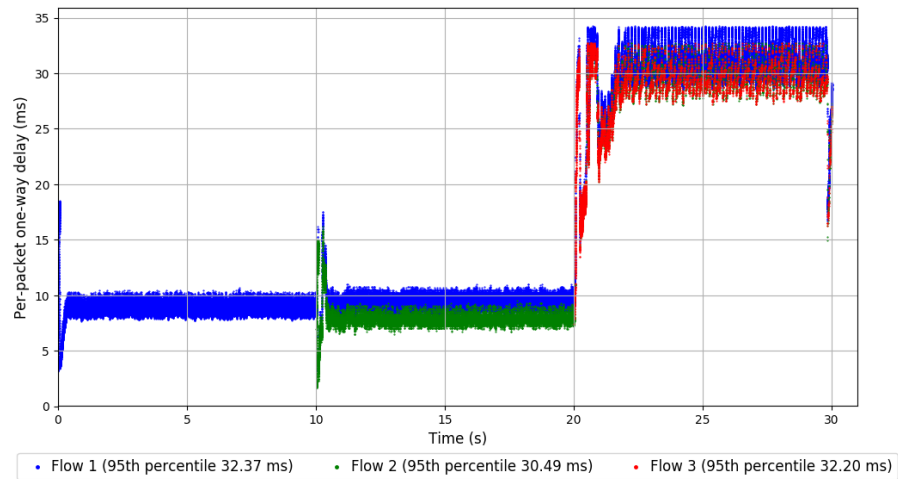
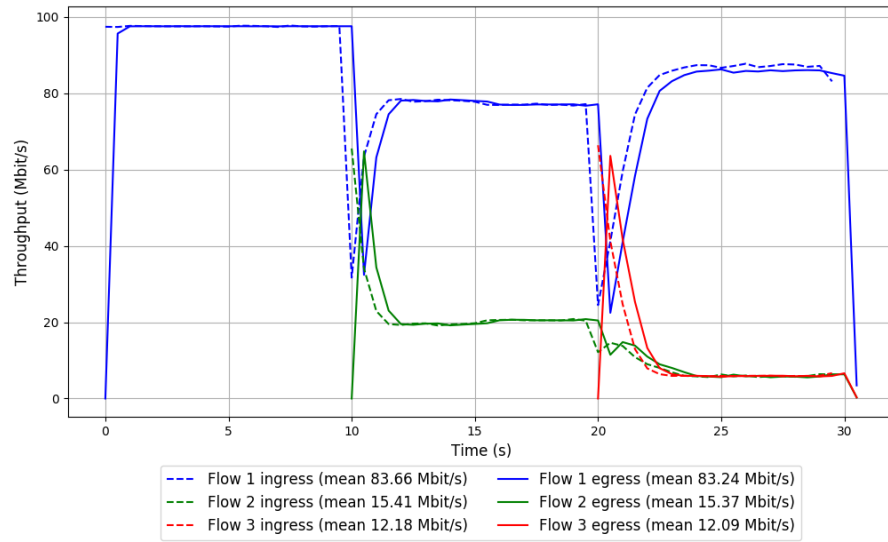
-- Flow 3:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 32.196 ms

Loss rate: 0.59%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-09-25 08:55:50

End at: 2018-09-25 08:56:20

Local clock offset: -5.031 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 12.922 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.16 Mbit/s

95th percentile per-packet one-way delay: 12.128 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 12.999 ms

Loss rate: 0.00%

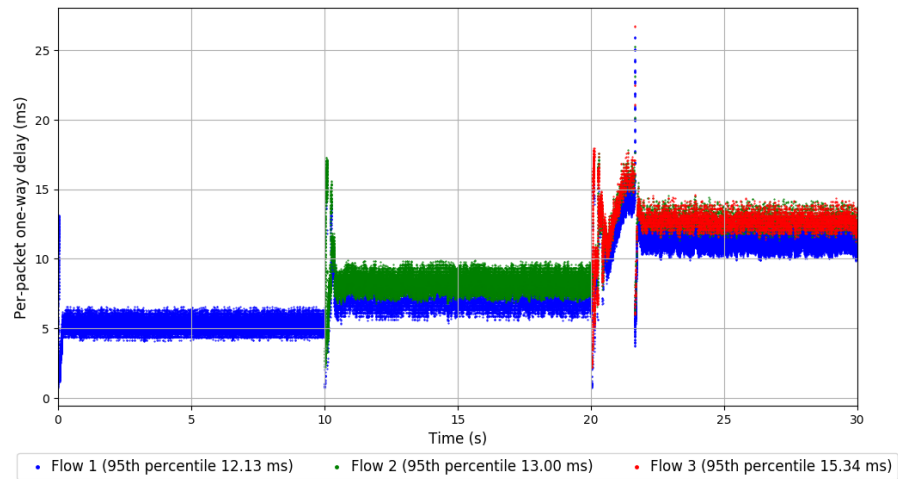
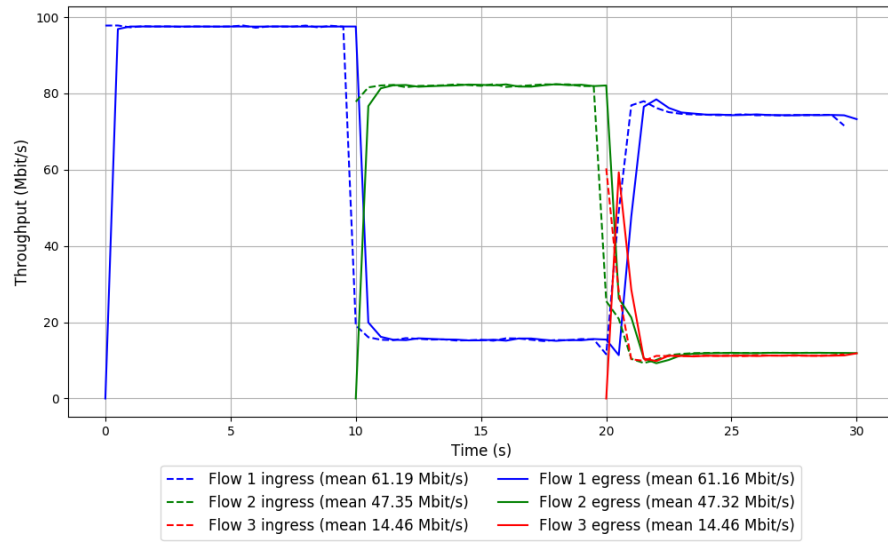
-- Flow 3:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 15.340 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-09-25 09:17:25

End at: 2018-09-25 09:17:55

Local clock offset: -5.836 ms

Remote clock offset: 0.556 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 23.934 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 23.531 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 22.933 ms

Loss rate: 0.00%

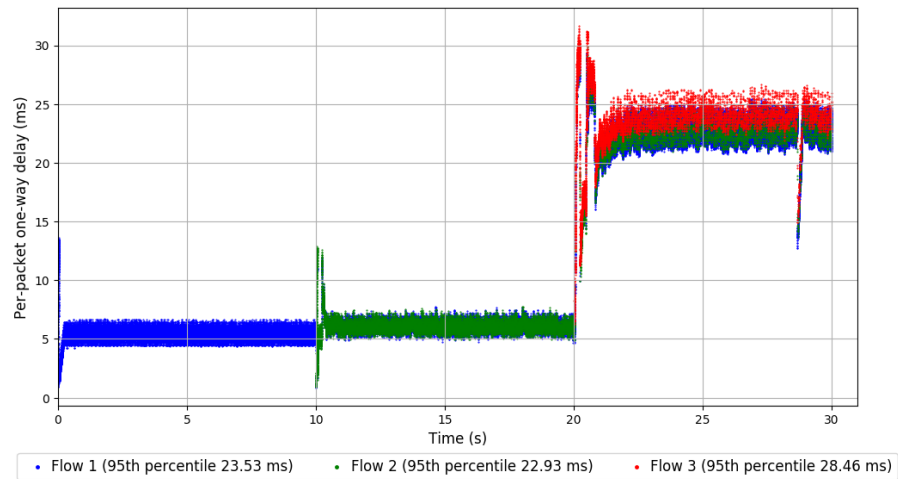
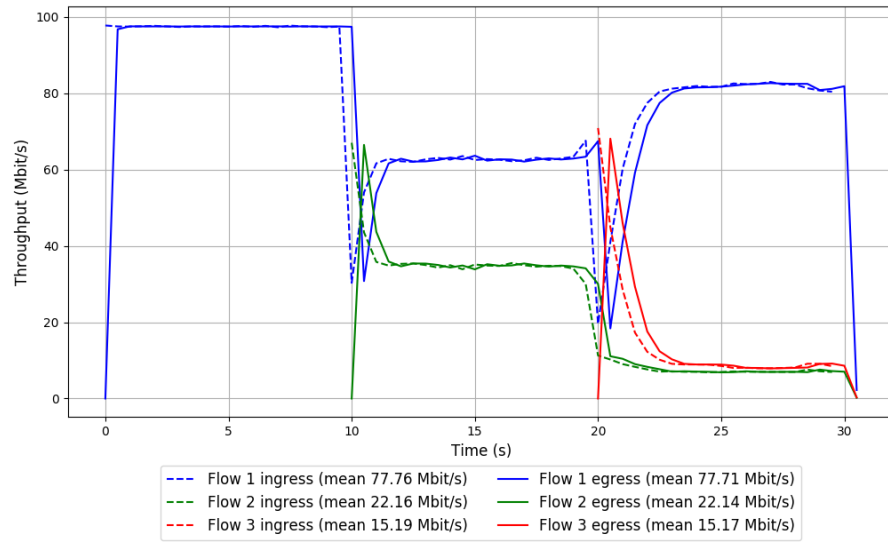
-- Flow 3:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 28.460 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-09-25 09:39:10

End at: 2018-09-25 09:39:40

Local clock offset: -7.252 ms

Remote clock offset: 0.631 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 25.220 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 25.071 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 19.91 Mbit/s

95th percentile per-packet one-way delay: 25.279 ms

Loss rate: 0.01%

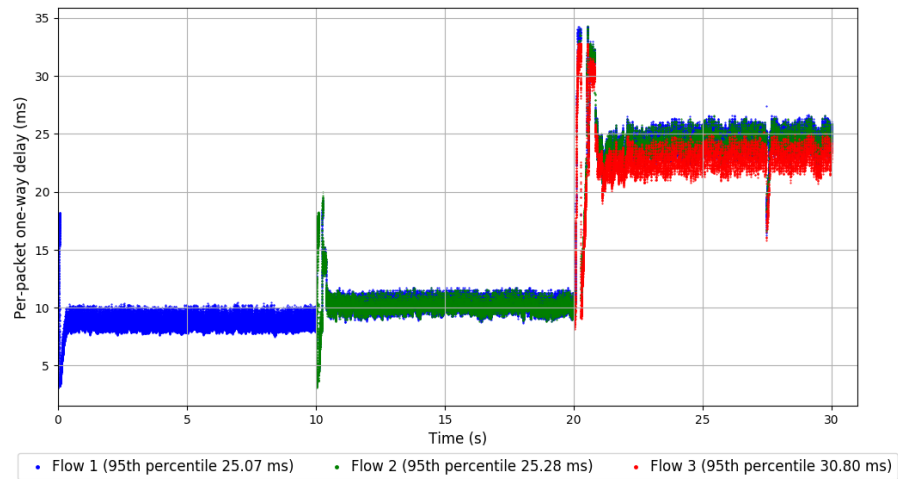
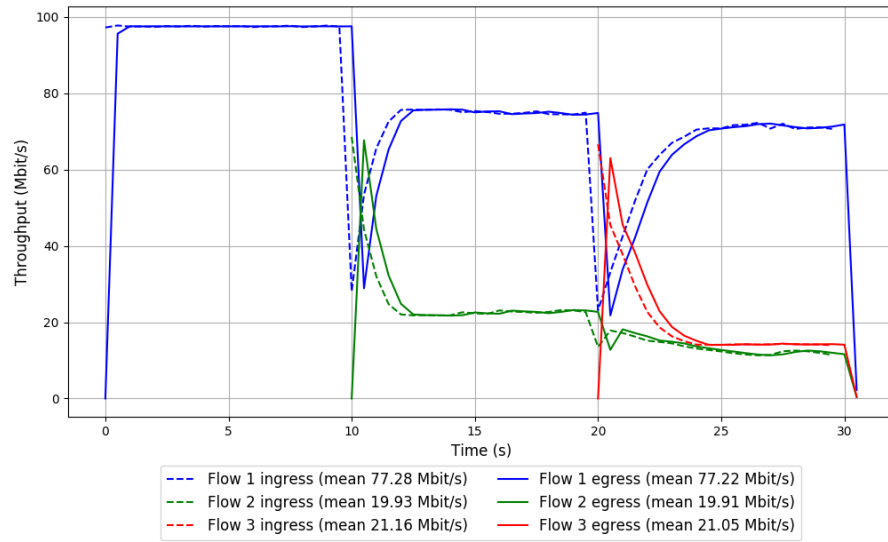
-- Flow 3:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 30.804 ms

Loss rate: 0.38%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-09-25 08:28:36

End at: 2018-09-25 08:29:06

Local clock offset: -4.446 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 2.422 ms

Loss rate: 65.70%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 98.80%

-- Flow 2:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 1.561 ms

Loss rate: 62.10%

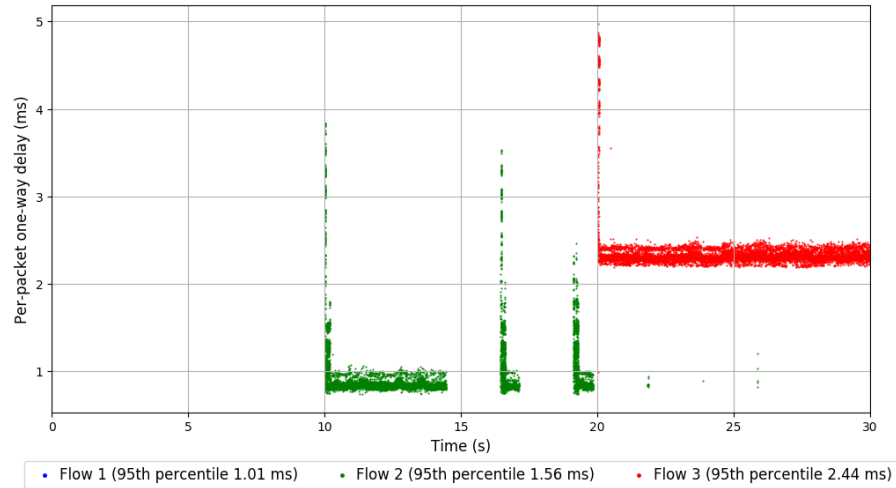
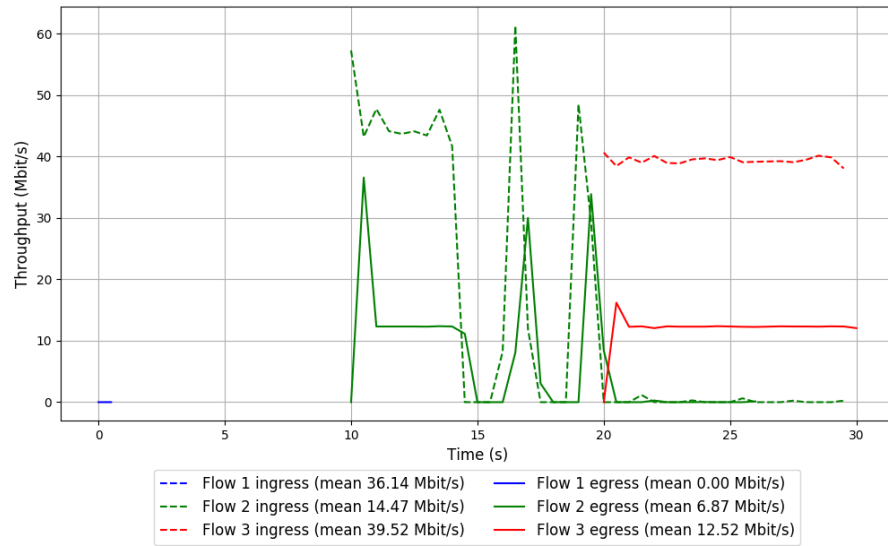
-- Flow 3:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 2.435 ms

Loss rate: 68.31%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-09-25 08:50:10

End at: 2018-09-25 08:50:40

Local clock offset: -5.64 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 3.224 ms

Loss rate: 67.61%

-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 2.339 ms

Loss rate: 64.14%

-- Flow 2:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 3.216 ms

Loss rate: 69.90%

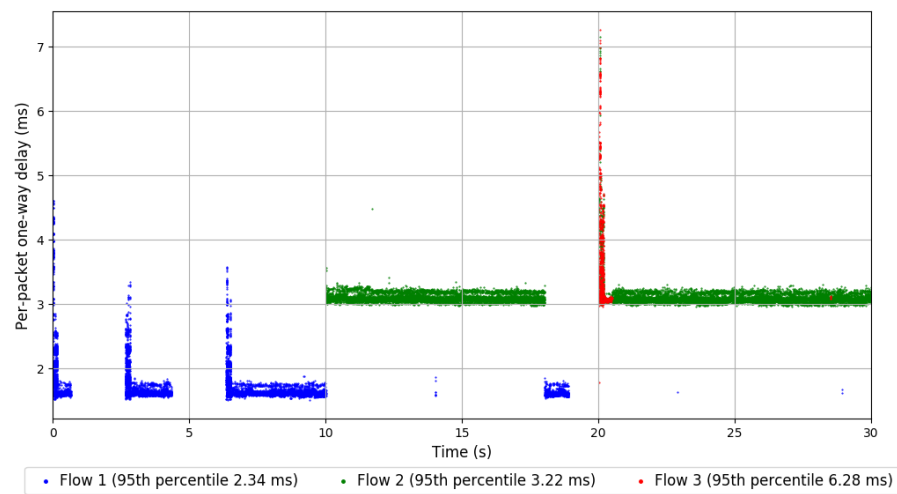
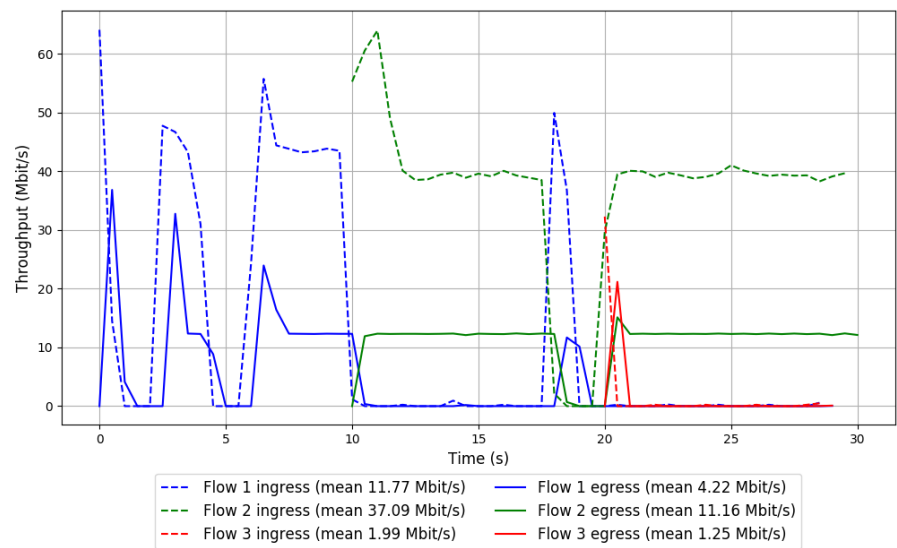
-- Flow 3:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 6.277 ms

Loss rate: 36.87%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-09-25 09:11:46

End at: 2018-09-25 09:12:16

Local clock offset: -6.23 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.196 ms

Loss rate: 68.12%

-- Flow 1:

Average throughput: 0.00 Mbit/s

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

Loss rate: 98.60%

-- Flow 2:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 3.303 ms

Loss rate: 67.44%

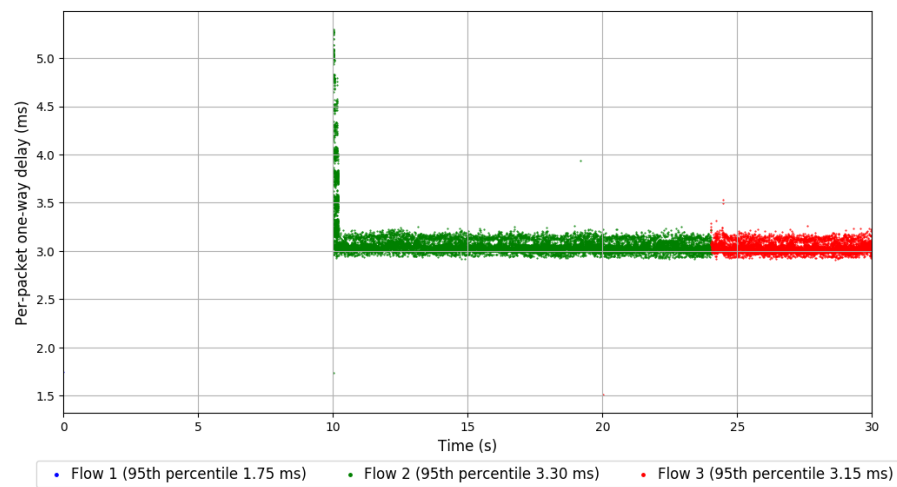
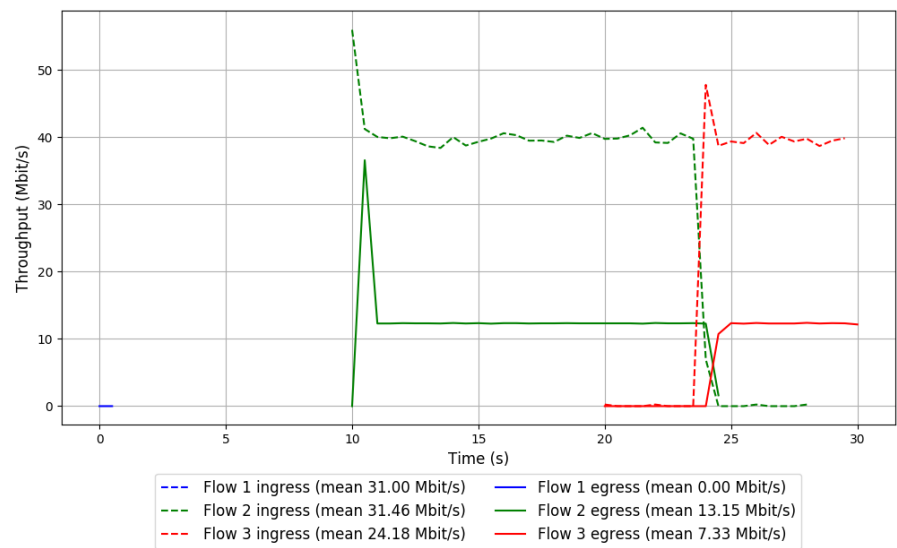
-- Flow 3:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 3.146 ms

Loss rate: 69.70%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-09-25 09:33:30

End at: 2018-09-25 09:34:00

Local clock offset: -7.178 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 3.511 ms

Loss rate: 69.77%

-- Flow 1:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 3.693 ms

Loss rate: 66.96%

-- Flow 2:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 2.458 ms

Loss rate: 74.97%

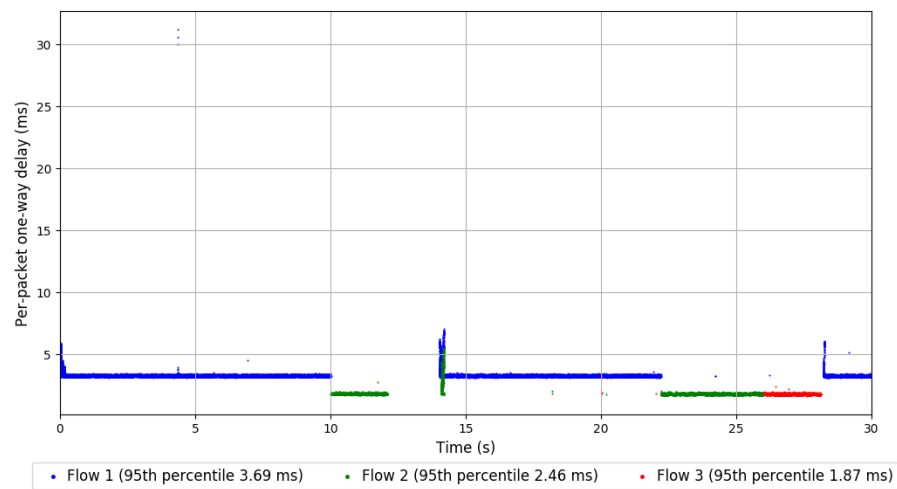
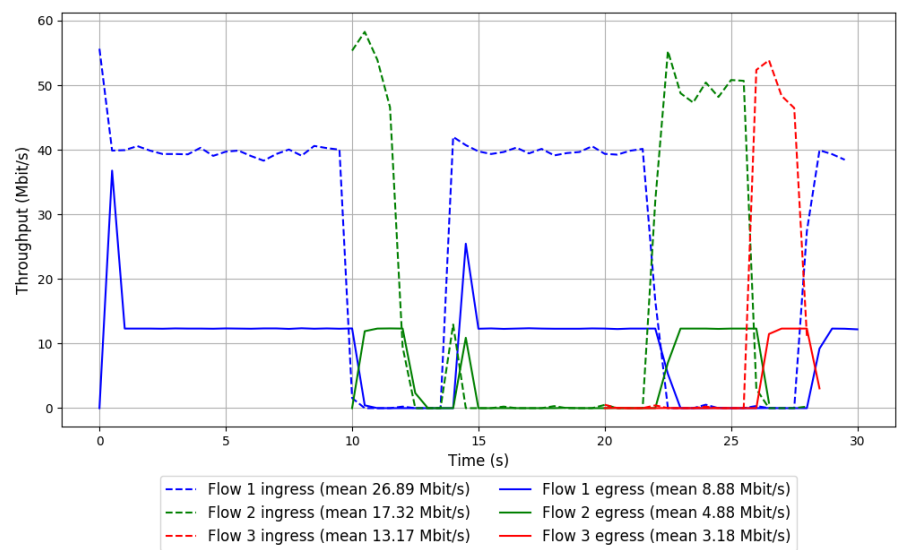
-- Flow 3:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 1.871 ms

Loss rate: 75.84%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-09-25 09:55:07

End at: 2018-09-25 09:55:37

Local clock offset: -4.751 ms

Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-09-25 10:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 2.515 ms

Loss rate: 67.62%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 0.916 ms

Loss rate: 98.60%

-- Flow 2:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 2.515 ms

Loss rate: 67.60%

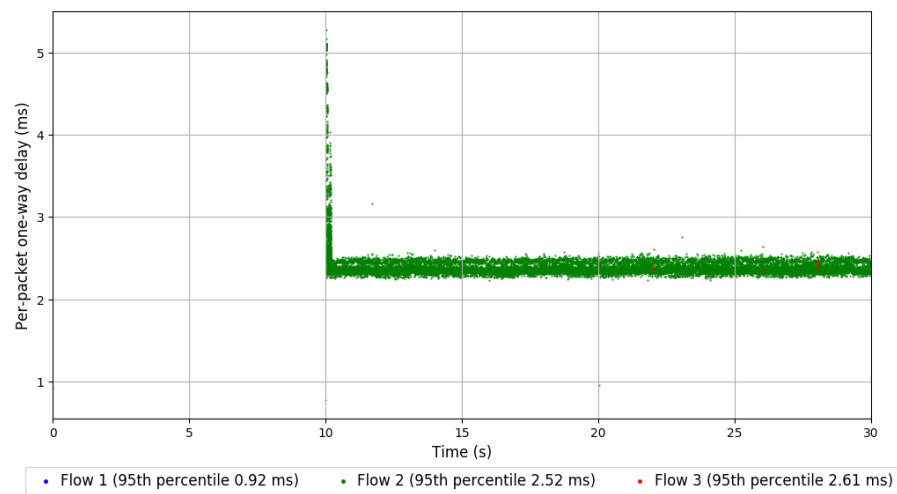
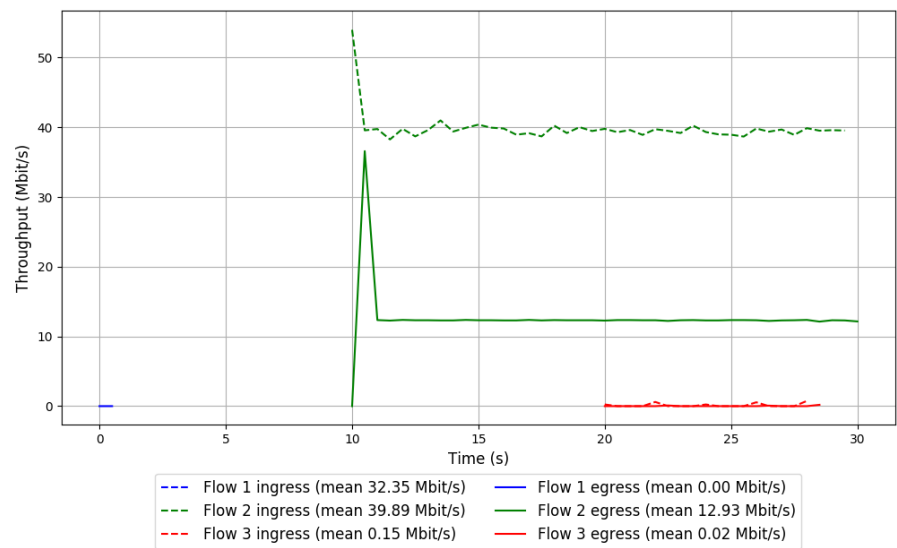
-- Flow 3:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 2.609 ms

Loss rate: 84.78%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-09-25 08:13:45

End at: 2018-09-25 08:14:15

Local clock offset: -5.157 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-09-25 10:03:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 32.987 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 57.13 Mbit/s

95th percentile per-packet one-way delay: 31.946 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: 33.327 ms

Loss rate: 0.09%

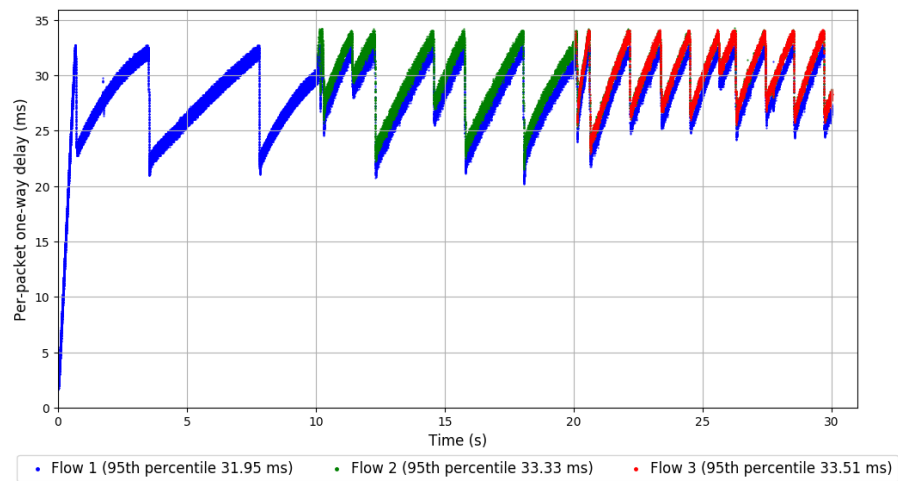
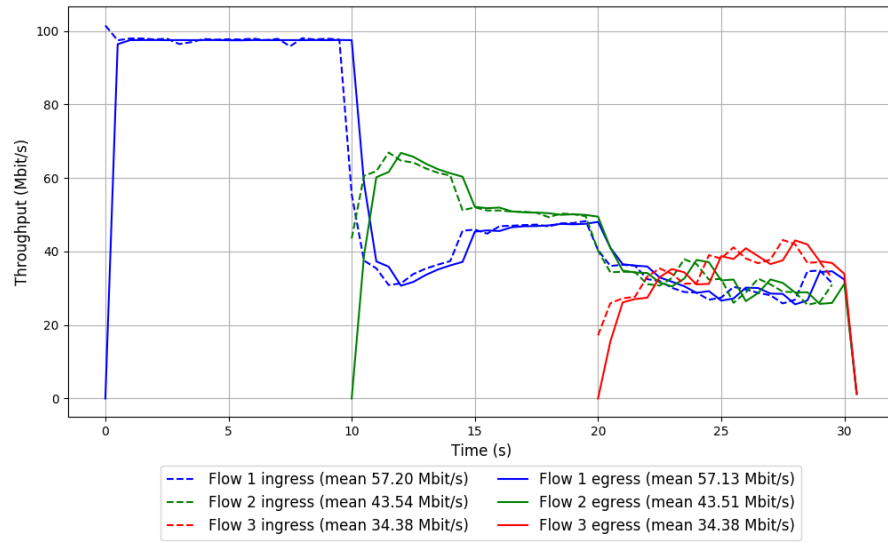
-- Flow 3:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 33.512 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-09-25 08:35:24

End at: 2018-09-25 08:35:54

Local clock offset: -4.454 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-09-25 10:03:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 31.684 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 31.098 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.69 Mbit/s

95th percentile per-packet one-way delay: 32.627 ms

Loss rate: 0.02%

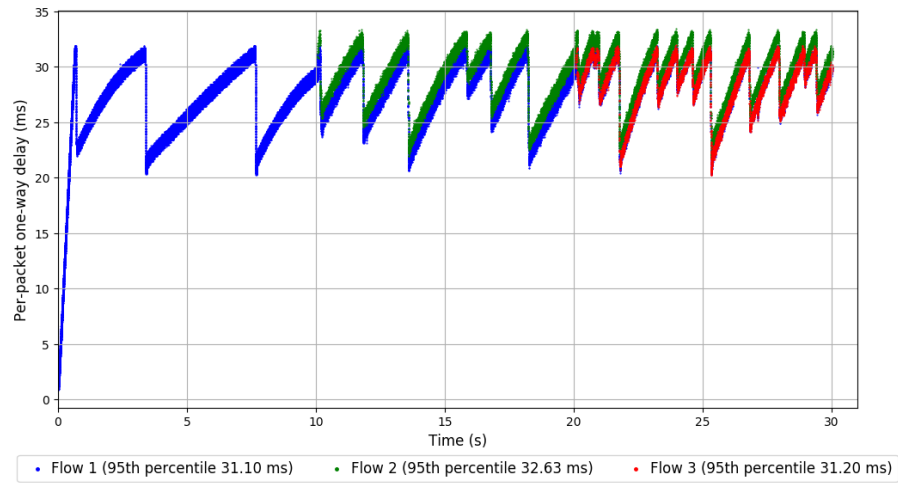
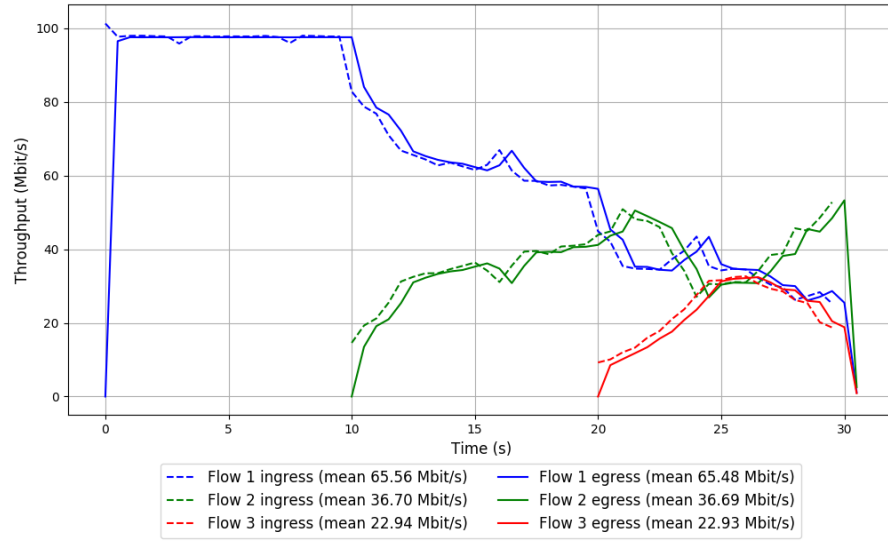
-- Flow 3:

Average throughput: 22.93 Mbit/s

95th percentile per-packet one-way delay: 31.199 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-09-25 08:56:59

End at: 2018-09-25 08:57:29

Local clock offset: -5.815 ms

Remote clock offset: 0.393 ms

Below is generated by plot.py at 2018-09-25 10:03:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 33.343 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.60 Mbit/s

95th percentile per-packet one-way delay: 33.185 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 33.373 ms

Loss rate: 0.03%

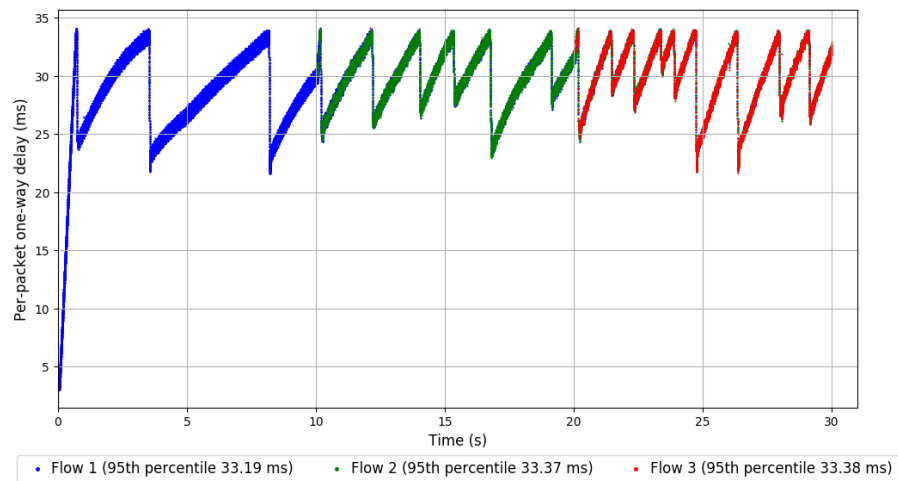
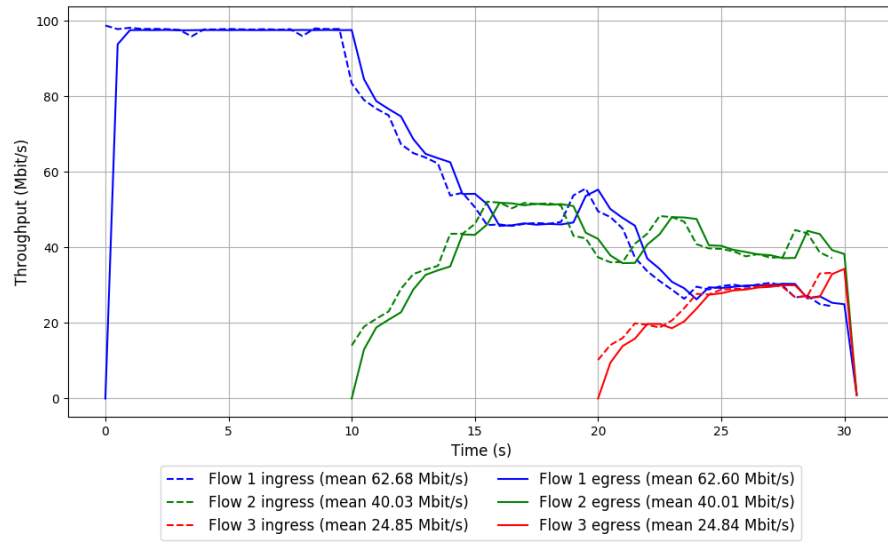
-- Flow 3:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 33.384 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link

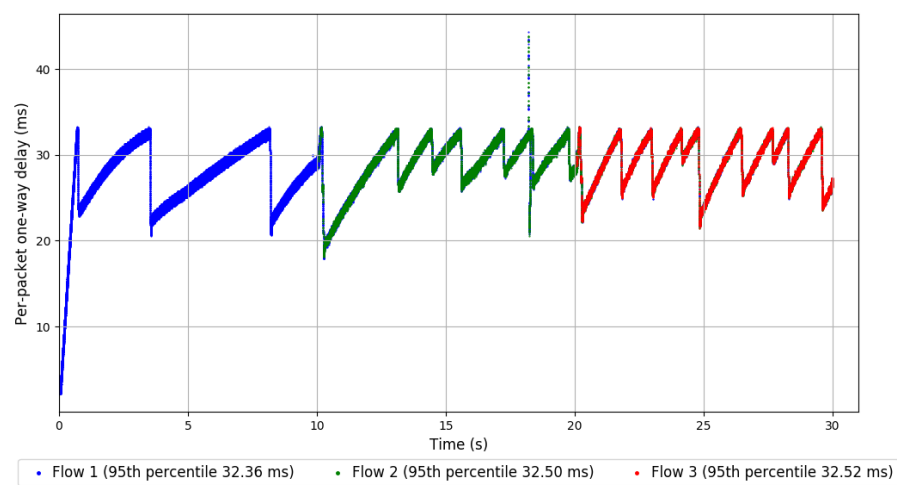
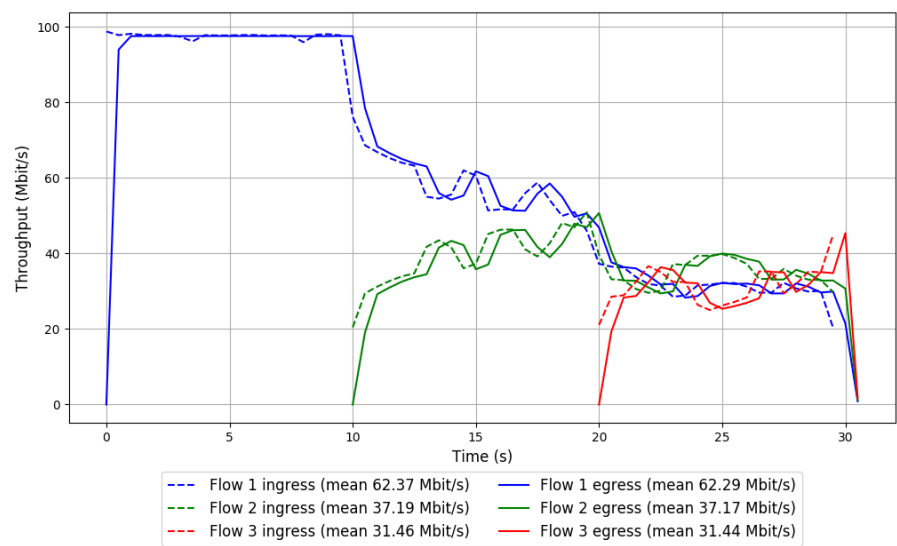


Run 4: Statistics of TCP Cubic

Start at: 2018-09-25 09:18:34
End at: 2018-09-25 09:19:04
Local clock offset: -5.843 ms
Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-09-25 10:04:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.474 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.29 Mbit/s
95th percentile per-packet one-way delay: 32.361 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 32.499 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 32.523 ms
Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-09-25 09:40:19

End at: 2018-09-25 09:40:49

Local clock offset: -7.07 ms

Remote clock offset: 0.593 ms

Below is generated by plot.py at 2018-09-25 10:04:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 32.285 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 31.962 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 38.44 Mbit/s

95th percentile per-packet one-way delay: 32.061 ms

Loss rate: 0.05%

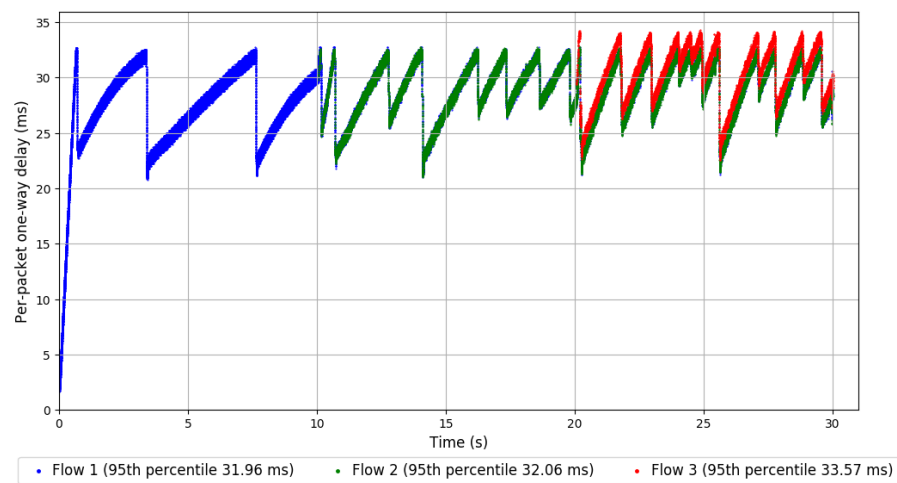
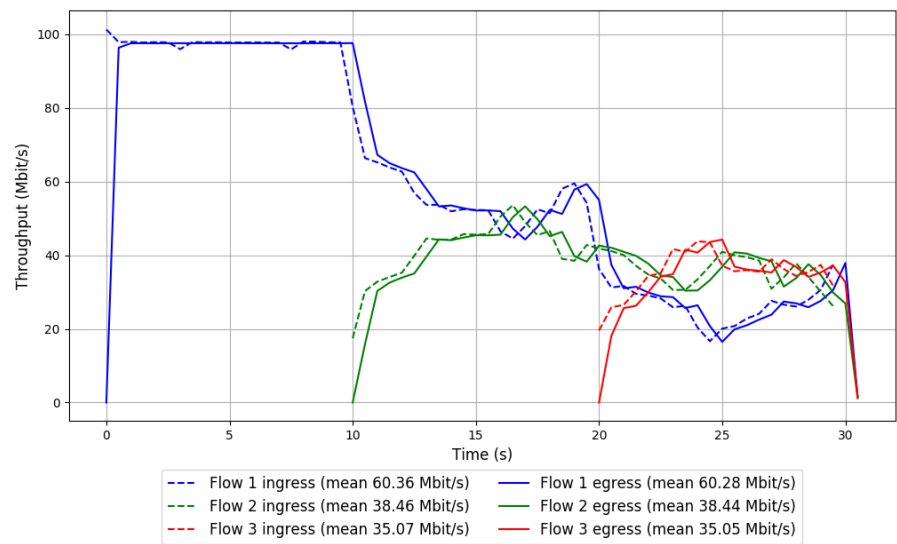
-- Flow 3:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 33.569 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-09-25 08:25:07

End at: 2018-09-25 08:25:37

Local clock offset: -5.202 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-09-25 10:04:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 30.952 ms

Loss rate: 17.70%

-- Flow 1:

Average throughput: 52.36 Mbit/s

95th percentile per-packet one-way delay: 30.977 ms

Loss rate: 12.92%

-- Flow 2:

Average throughput: 47.26 Mbit/s

95th percentile per-packet one-way delay: 29.600 ms

Loss rate: 21.41%

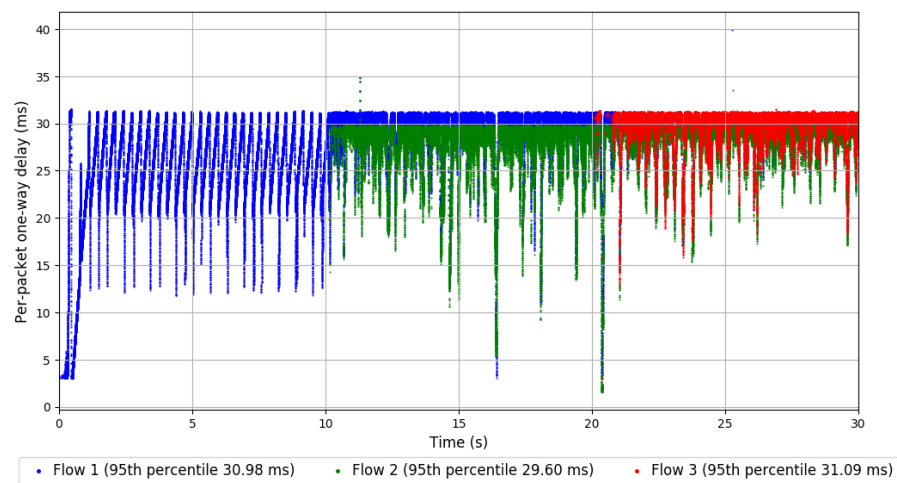
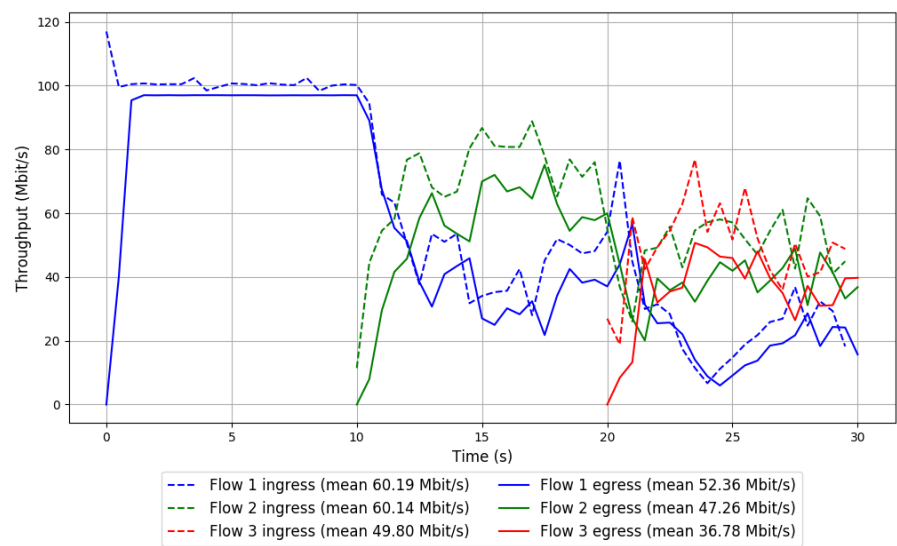
-- Flow 3:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 31.087 ms

Loss rate: 26.15%

Run 1: Report of FillP — Data Link

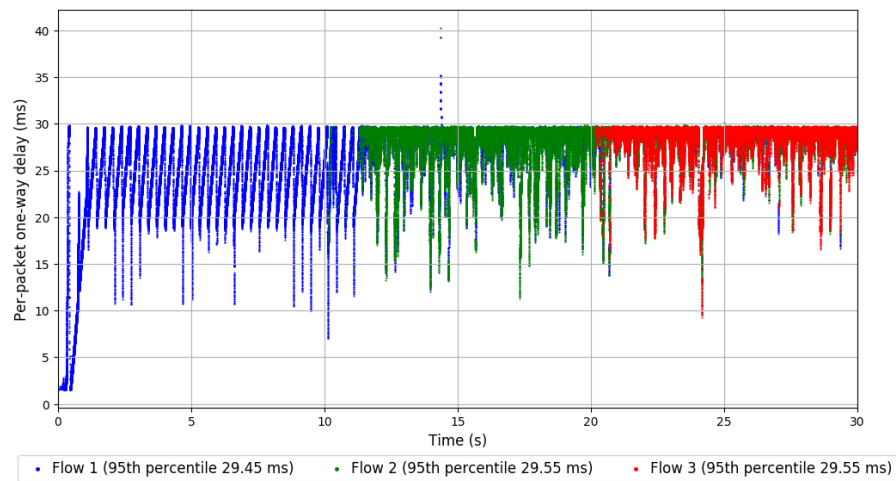
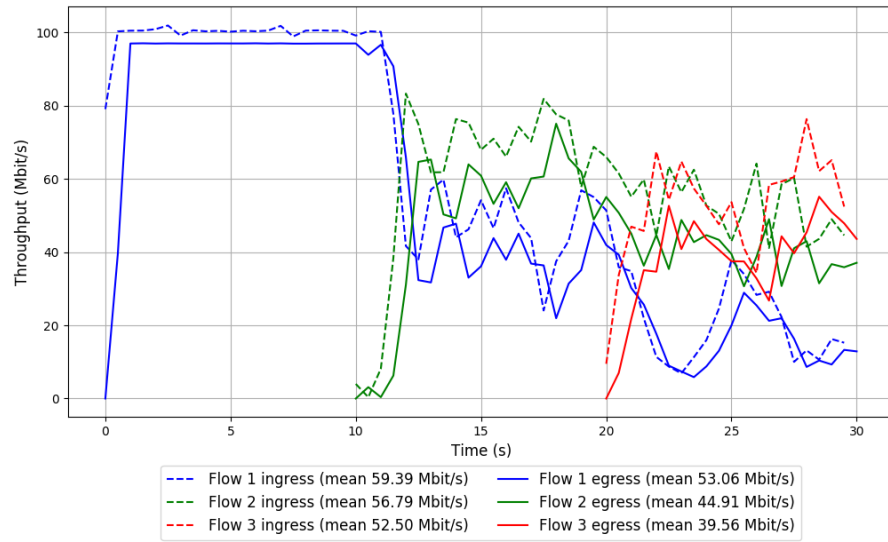


Run 2: Statistics of FillP

Start at: 2018-09-25 08:46:46
End at: 2018-09-25 08:47:16
Local clock offset: -5.566 ms
Remote clock offset: 0.326 ms

Below is generated by plot.py at 2018-09-25 10:04:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 29.520 ms
Loss rate: 16.14%
-- Flow 1:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 29.453 ms
Loss rate: 10.61%
-- Flow 2:
Average throughput: 44.91 Mbit/s
95th percentile per-packet one-way delay: 29.546 ms
Loss rate: 20.91%
-- Flow 3:
Average throughput: 39.56 Mbit/s
95th percentile per-packet one-way delay: 29.552 ms
Loss rate: 24.66%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-09-25 09:08:22

End at: 2018-09-25 09:08:52

Local clock offset: -6.036 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2018-09-25 10:04:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 30.783 ms

Loss rate: 16.60%

-- Flow 1:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 30.915 ms

Loss rate: 11.01%

-- Flow 2:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 29.539 ms

Loss rate: 20.61%

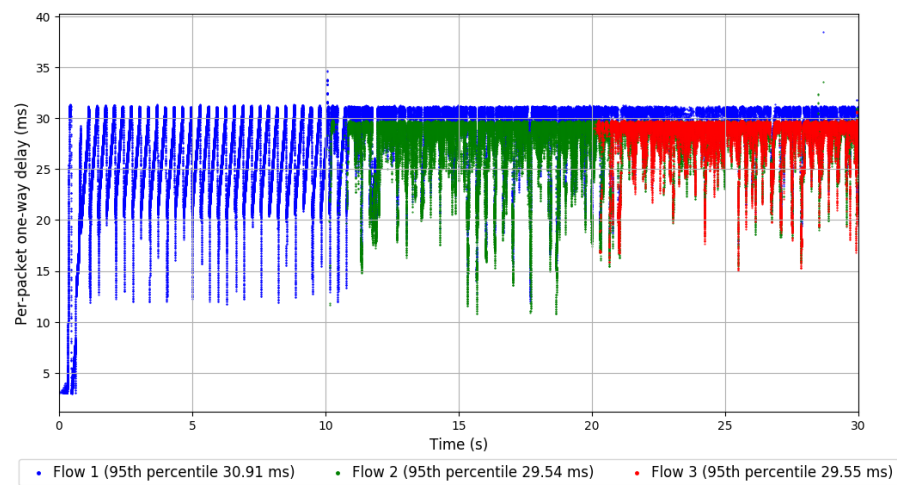
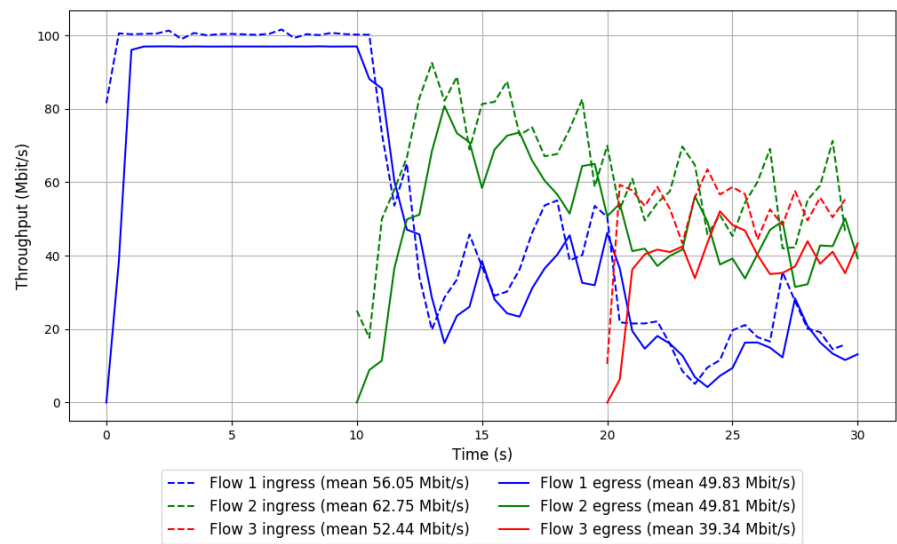
-- Flow 3:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 29.552 ms

Loss rate: 24.98%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-09-25 09:30:07

End at: 2018-09-25 09:30:37

Local clock offset: -7.079 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-09-25 10:04:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 31.060 ms

Loss rate: 17.22%

-- Flow 1:

Average throughput: 53.00 Mbit/s

95th percentile per-packet one-way delay: 30.970 ms

Loss rate: 11.01%

-- Flow 2:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 31.097 ms

Loss rate: 22.53%

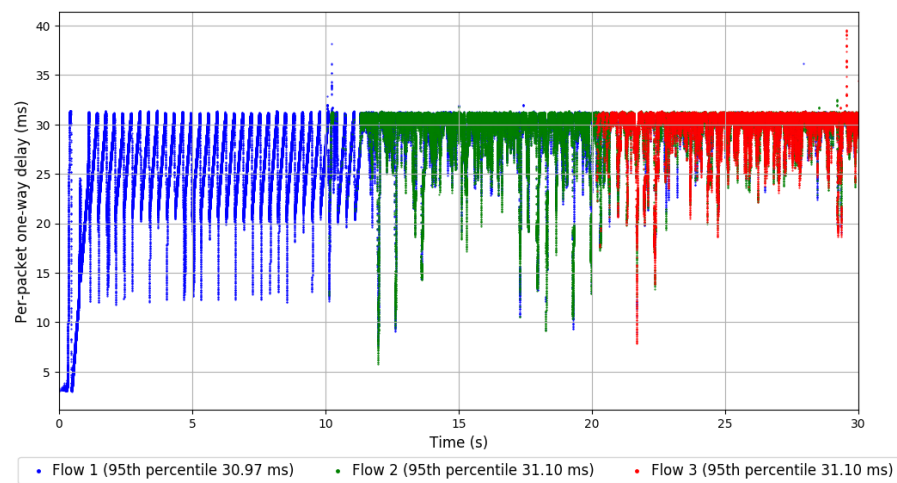
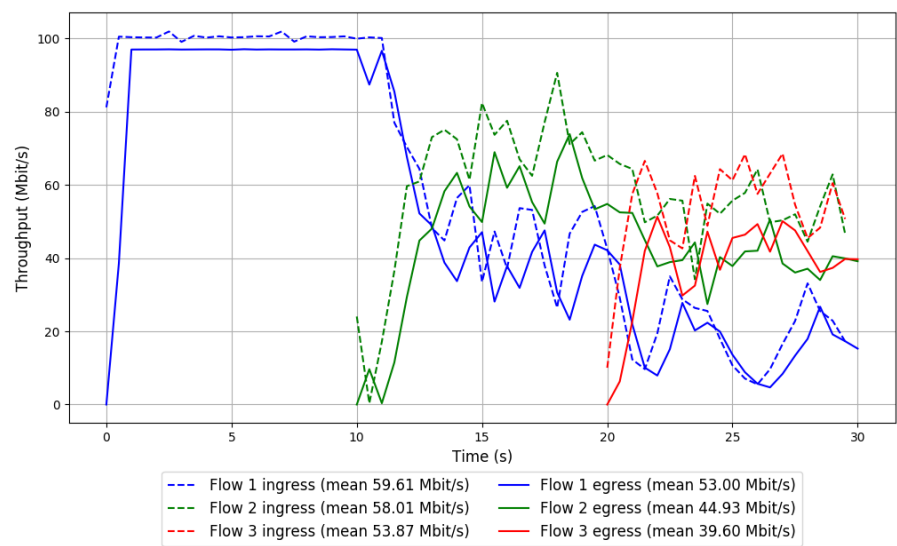
-- Flow 3:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 31.104 ms

Loss rate: 26.47%

Run 4: Report of FillP — Data Link

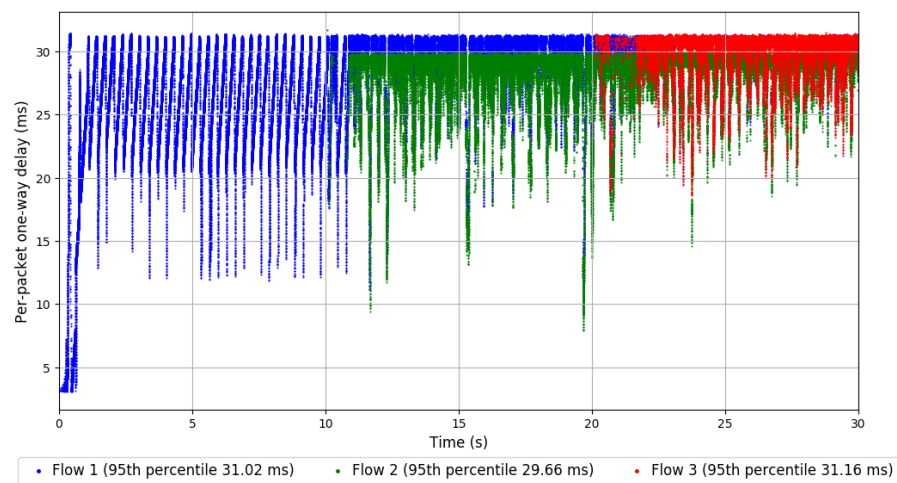
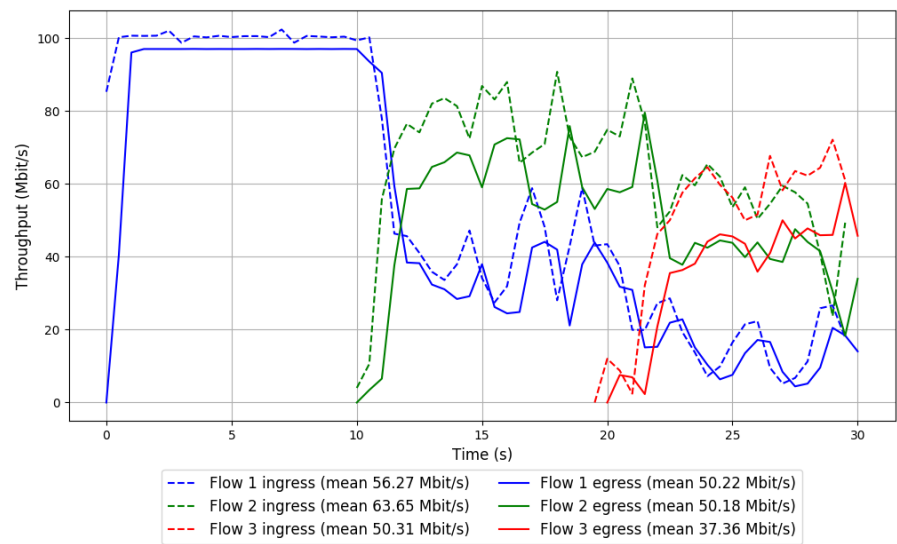


Run 5: Statistics of FillP

Start at: 2018-09-25 09:51:44
End at: 2018-09-25 09:52:14
Local clock offset: -5.692 ms
Remote clock offset: 0.679 ms

Below is generated by plot.py at 2018-09-25 10:04:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 30.997 ms
Loss rate: 16.70%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 31.018 ms
Loss rate: 10.66%
-- Flow 2:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 29.663 ms
Loss rate: 21.15%
-- Flow 3:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 31.159 ms
Loss rate: 25.69%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-09-25 08:21:41

End at: 2018-09-25 08:22:11

Local clock offset: -5.138 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-09-25 10:04:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.62 Mbit/s

95th percentile per-packet one-way delay: 30.605 ms

Loss rate: 22.88%

-- Flow 1:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 29.501 ms

Loss rate: 16.09%

-- Flow 2:

Average throughput: 42.90 Mbit/s

95th percentile per-packet one-way delay: 29.566 ms

Loss rate: 30.10%

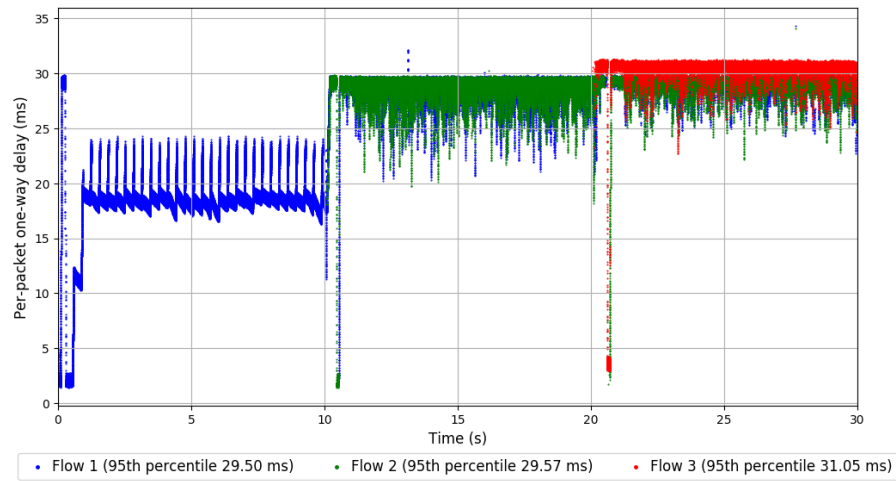
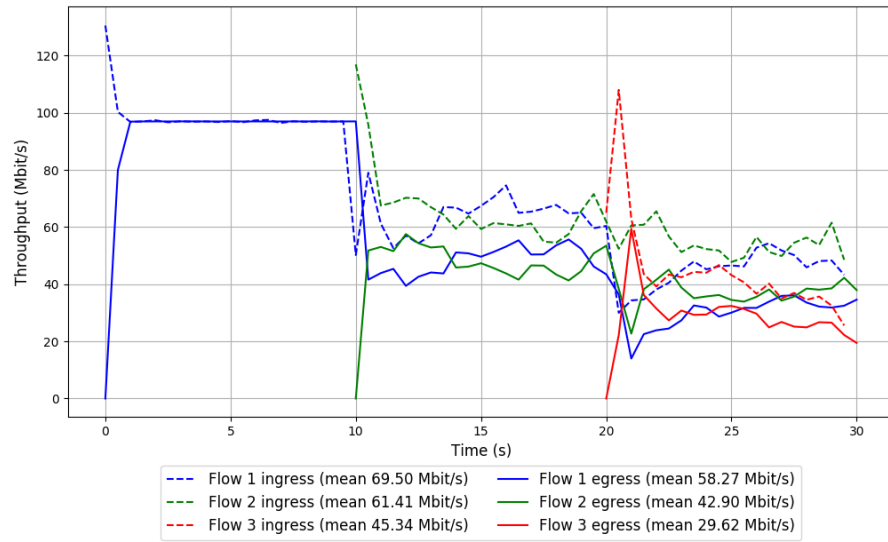
-- Flow 3:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 31.051 ms

Loss rate: 34.67%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-09-25 08:43:20

End at: 2018-09-25 08:43:50

Local clock offset: -5.427 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-09-25 10:05:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 30.665 ms

Loss rate: 21.35%

-- Flow 1:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 29.462 ms

Loss rate: 15.77%

-- Flow 2:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 29.518 ms

Loss rate: 29.24%

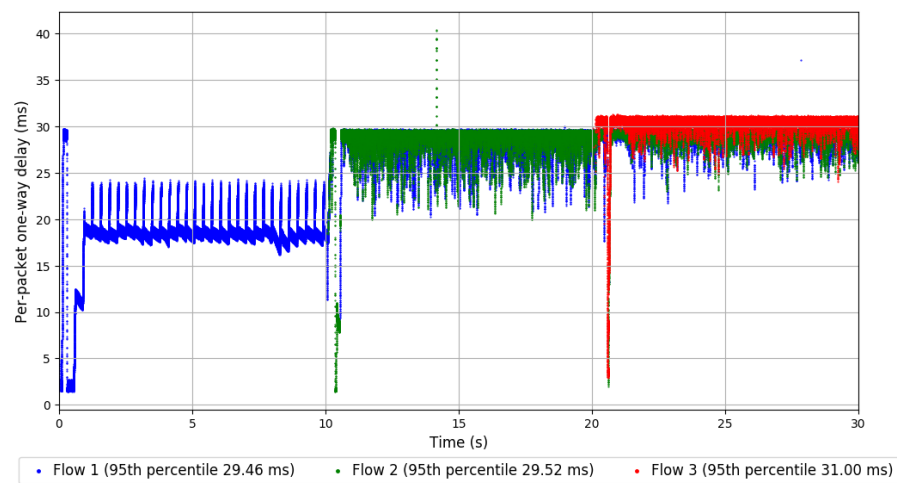
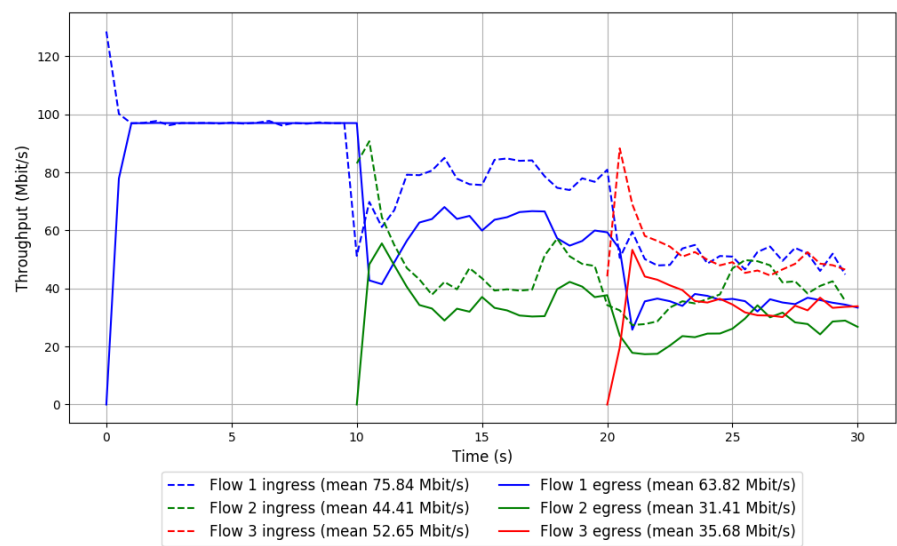
-- Flow 3:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 30.998 ms

Loss rate: 32.23%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-09-25 09:04:55

End at: 2018-09-25 09:05:26

Local clock offset: -5.974 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2018-09-25 10:05:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 30.930 ms

Loss rate: 21.23%

-- Flow 1:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 30.940 ms

Loss rate: 15.30%

-- Flow 2:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 29.551 ms

Loss rate: 28.38%

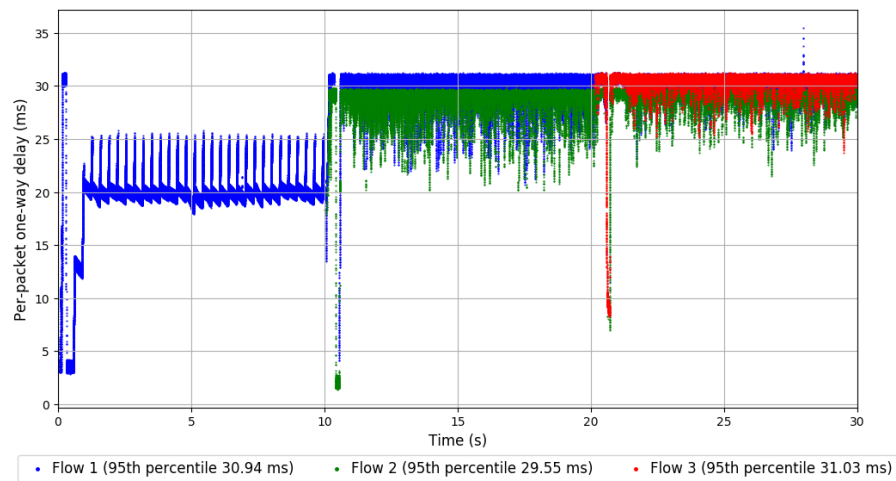
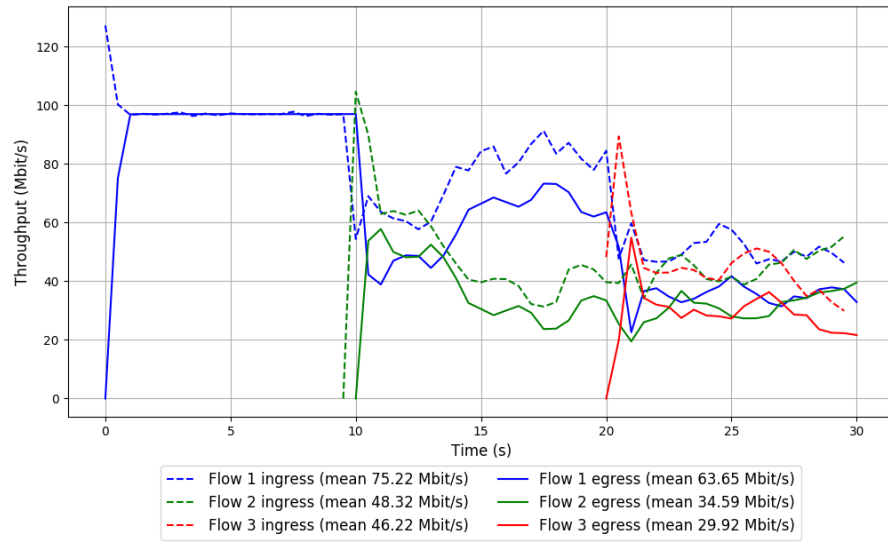
-- Flow 3:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 31.034 ms

Loss rate: 35.27%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-09-25 09:26:40

End at: 2018-09-25 09:27:10

Local clock offset: -6.917 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-09-25 10:06:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 31.004 ms

Loss rate: 21.36%

-- Flow 1:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 29.583 ms

Loss rate: 15.04%

-- Flow 2:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 31.112 ms

Loss rate: 29.34%

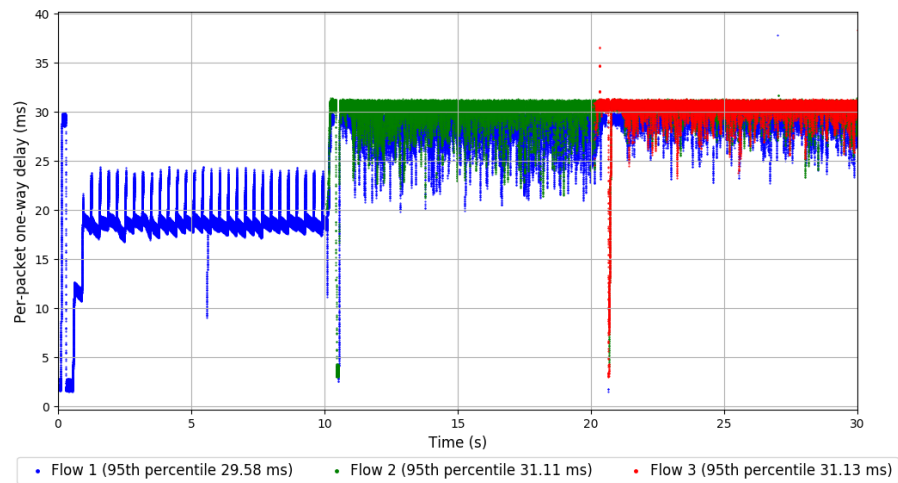
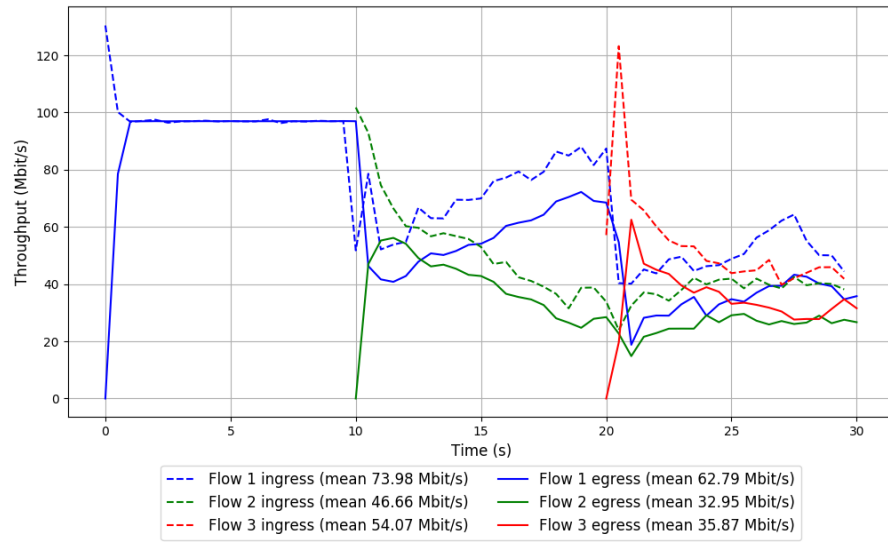
-- Flow 3:

Average throughput: 35.87 Mbit/s

95th percentile per-packet one-way delay: 31.129 ms

Loss rate: 33.61%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-09-25 09:48:18

End at: 2018-09-25 09:48:48

Local clock offset: -5.184 ms

Remote clock offset: 0.633 ms

Below is generated by plot.py at 2018-09-25 10:06:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 30.185 ms

Loss rate: 22.02%

-- Flow 1:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 28.824 ms

Loss rate: 15.47%

-- Flow 2:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 30.361 ms

Loss rate: 30.01%

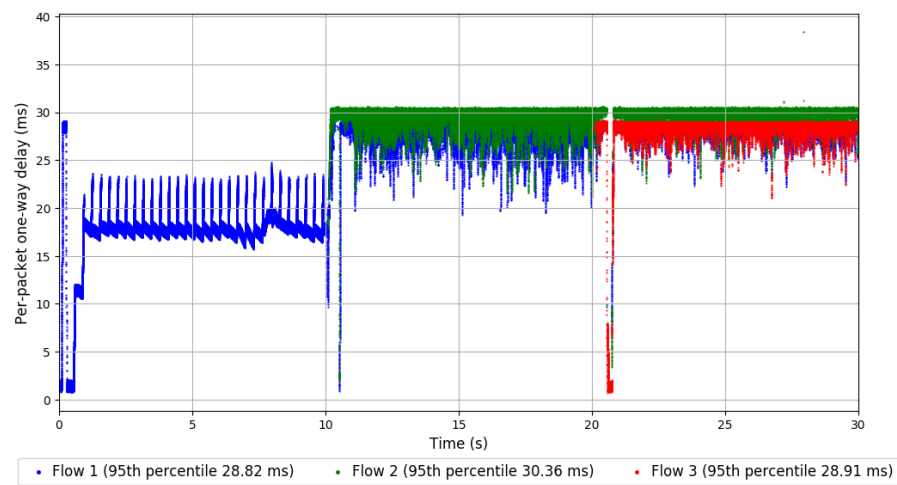
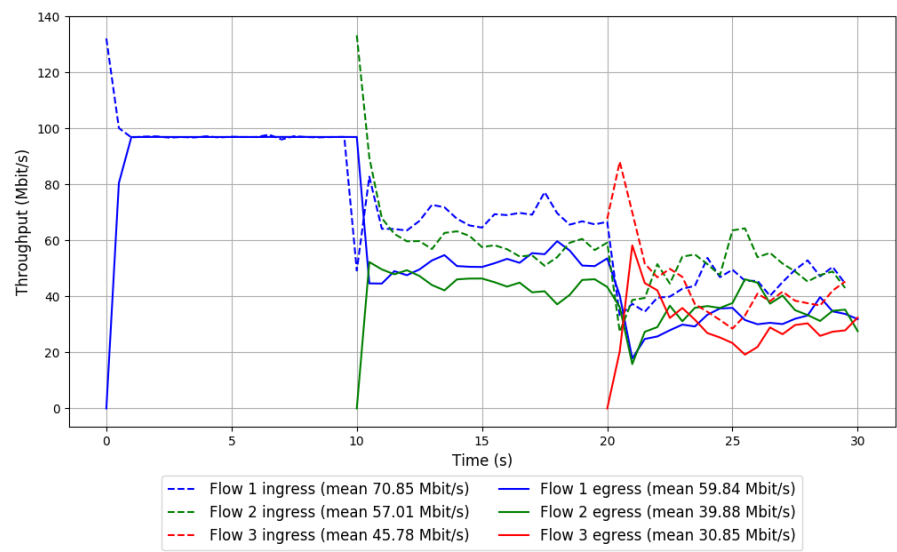
-- Flow 3:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 28.912 ms

Loss rate: 32.61%

Run 5: Report of FillP-Sheep — Data Link

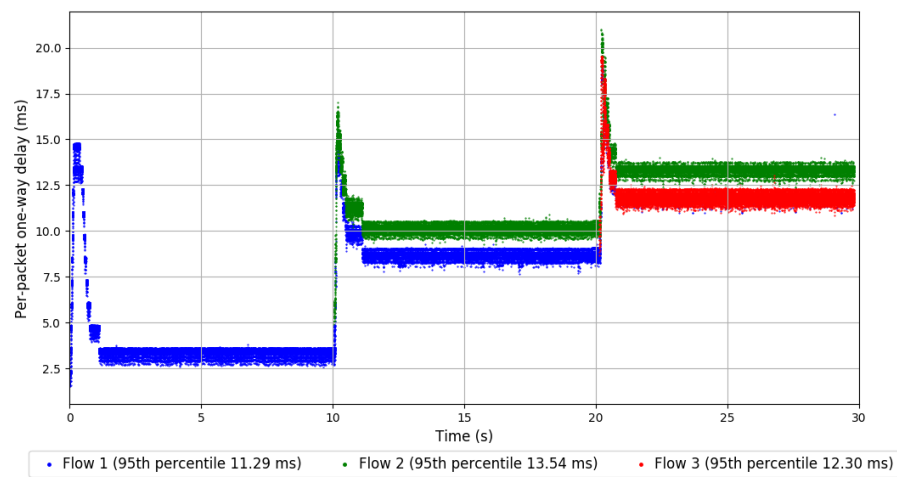
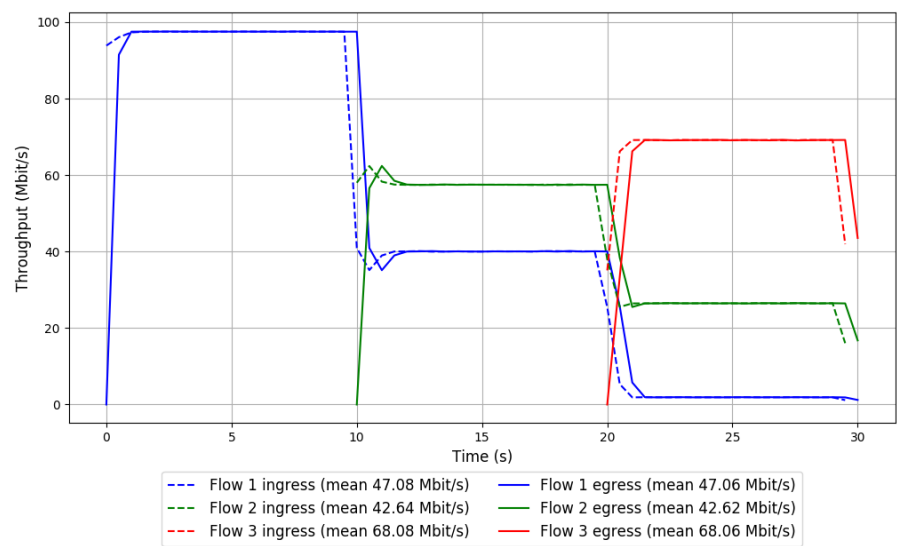


```
Run 1: Statistics of Indigo

Start at: 2018-09-25 08:18:14
End at: 2018-09-25 08:18:44
Local clock offset: -5.183 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-09-25 10:06:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 13.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 11.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.62 Mbit/s
95th percentile per-packet one-way delay: 13.541 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.06 Mbit/s
95th percentile per-packet one-way delay: 12.302 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

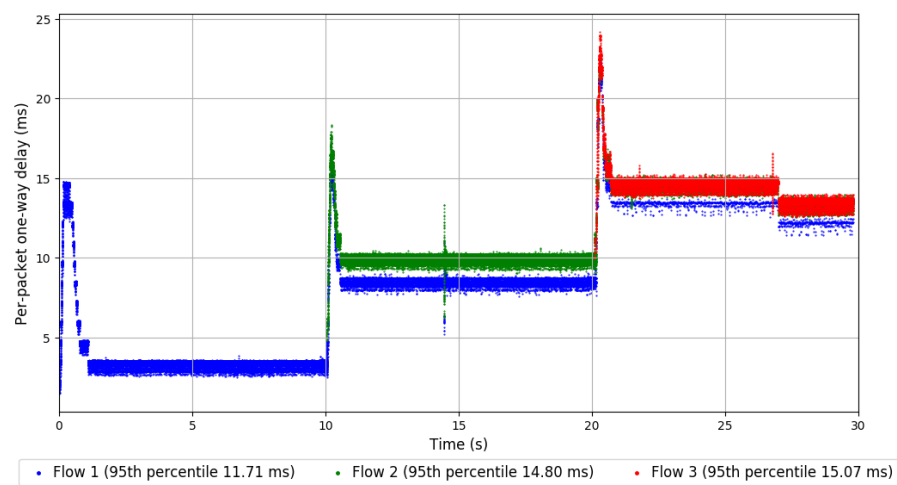
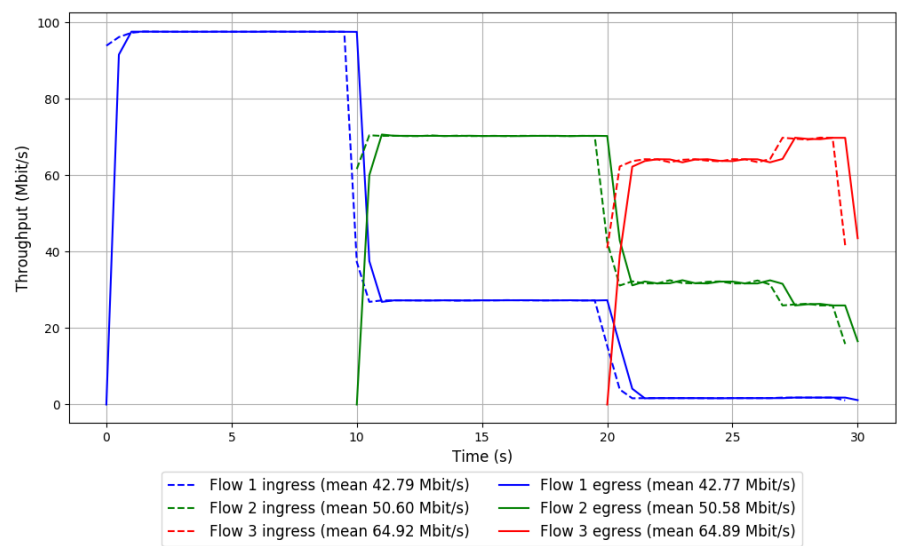


Run 2: Statistics of Indigo

Start at: 2018-09-25 08:39:55
End at: 2018-09-25 08:40:25
Local clock offset: -5.305 ms
Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-09-25 10:06:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 14.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.77 Mbit/s
95th percentile per-packet one-way delay: 11.706 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.58 Mbit/s
95th percentile per-packet one-way delay: 14.797 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.89 Mbit/s
95th percentile per-packet one-way delay: 15.069 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-09-25 09:01:29

End at: 2018-09-25 09:01:59

Local clock offset: -5.154 ms

Remote clock offset: 0.502 ms

Below is generated by plot.py at 2018-09-25 10:06:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 14.151 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 10.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.42 Mbit/s

95th percentile per-packet one-way delay: 14.150 ms

Loss rate: 0.00%

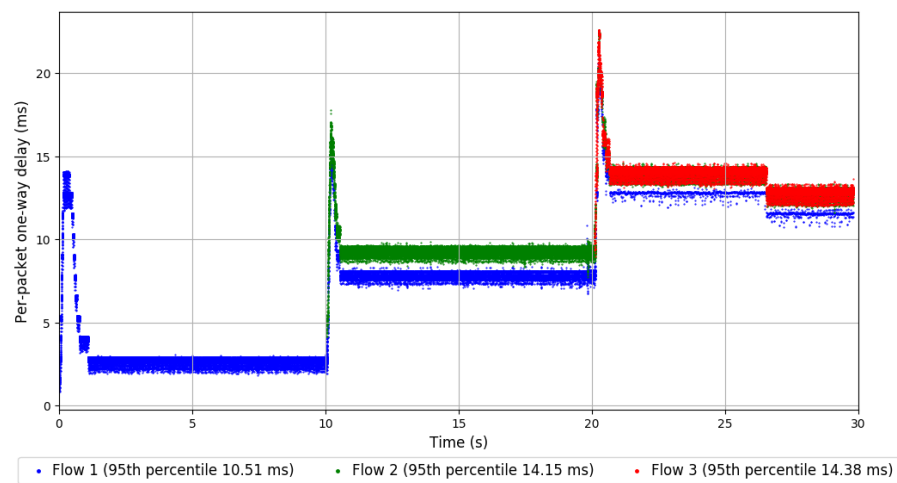
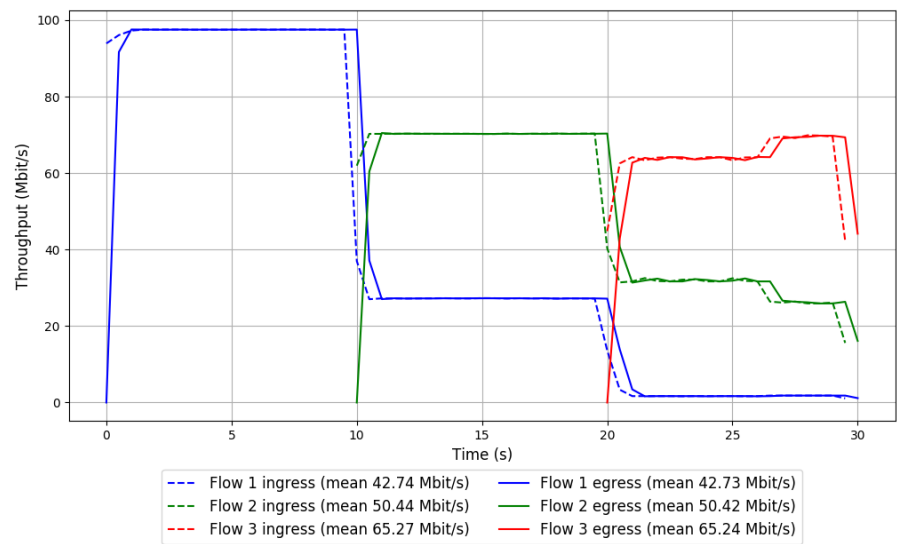
-- Flow 3:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 14.382 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-09-25 09:23:14

End at: 2018-09-25 09:23:44

Local clock offset: -6.8 ms

Remote clock offset: 0.569 ms

Below is generated by plot.py at 2018-09-25 10:06:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 13.228 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 12.268 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.80 Mbit/s

95th percentile per-packet one-way delay: 11.809 ms

Loss rate: 0.00%

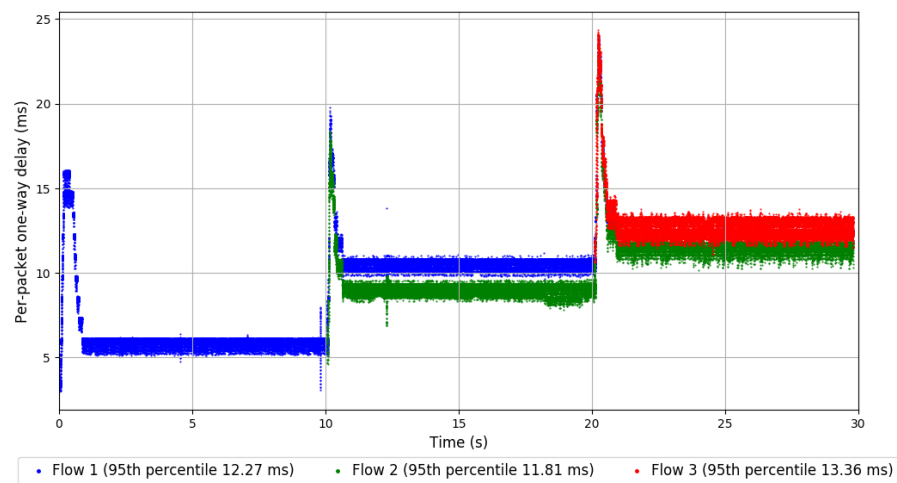
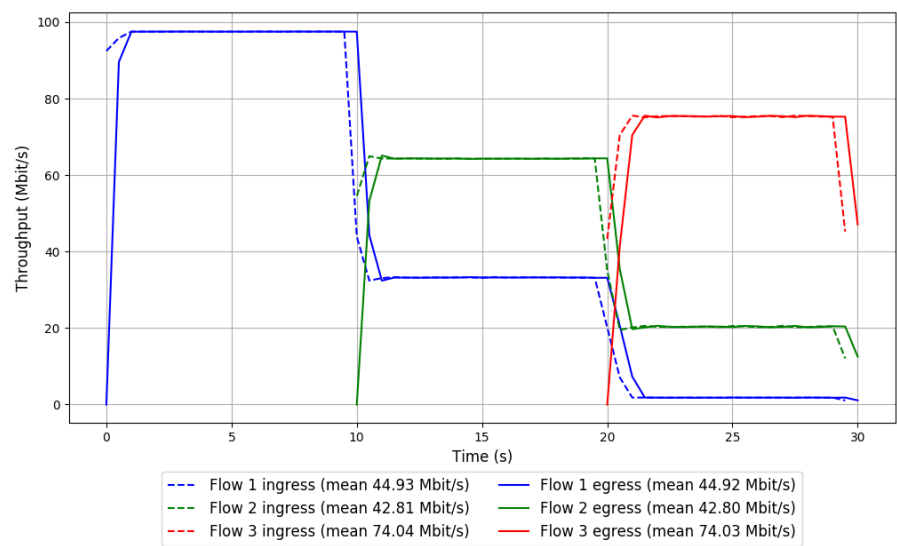
-- Flow 3:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 13.361 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-09-25 09:44:50

End at: 2018-09-25 09:45:20

Local clock offset: -6.308 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-09-25 10:06:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 15.093 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 13.972 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 15.099 ms

Loss rate: 0.00%

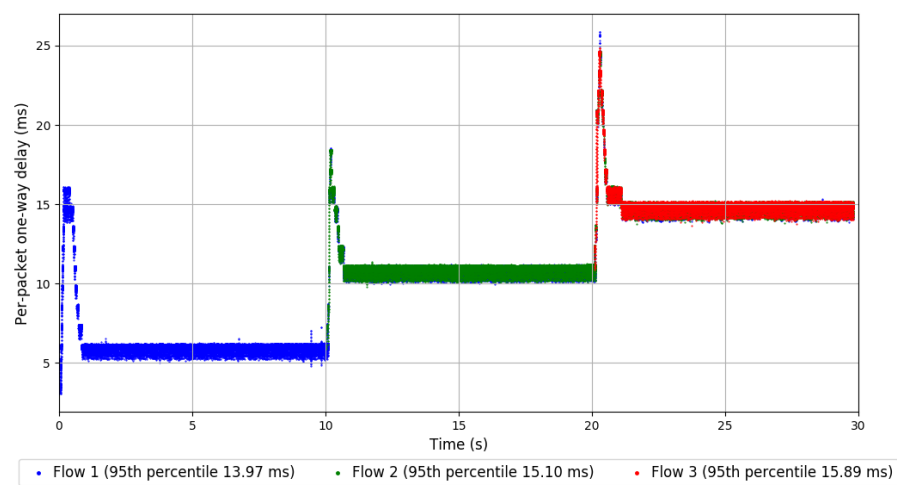
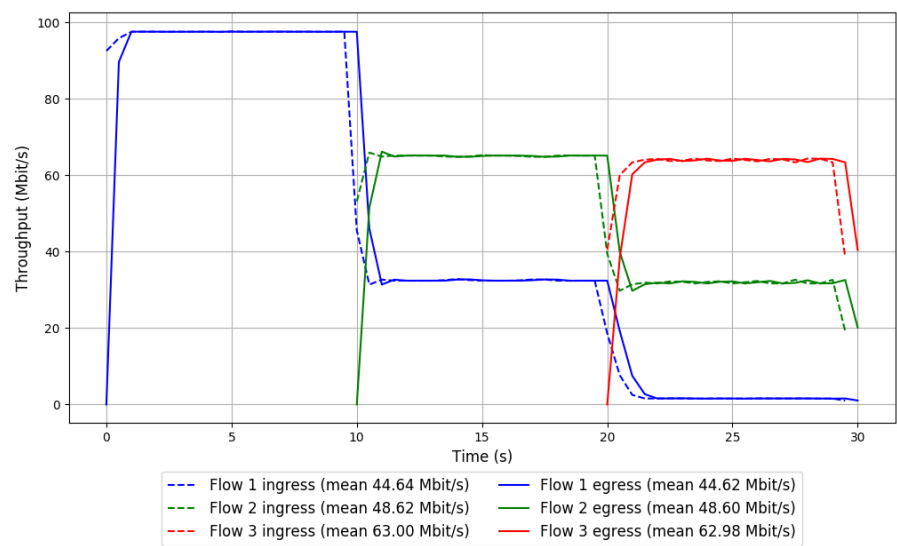
-- Flow 3:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 15.890 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-25 08:27:26

End at: 2018-09-25 08:27:56

Local clock offset: -5.237 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2018-09-25 10:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.70 Mbit/s

95th percentile per-packet one-way delay: 8.073 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 7.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: 8.038 ms

Loss rate: 0.00%

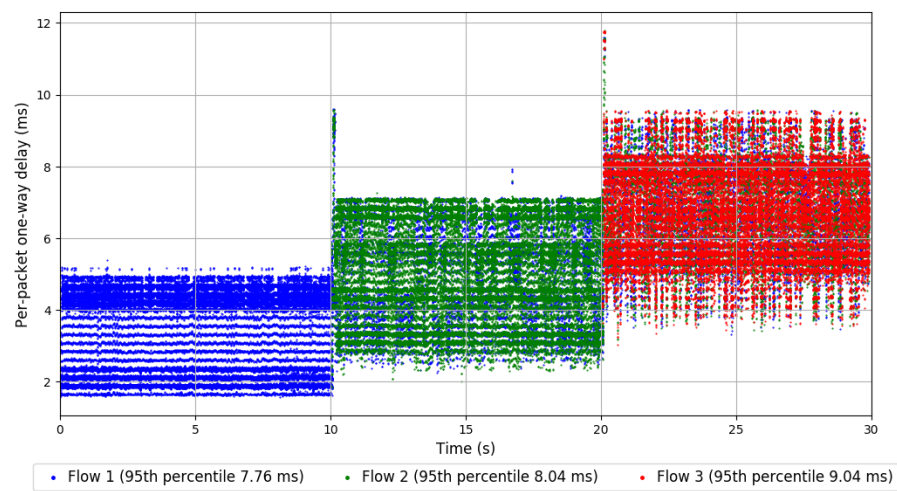
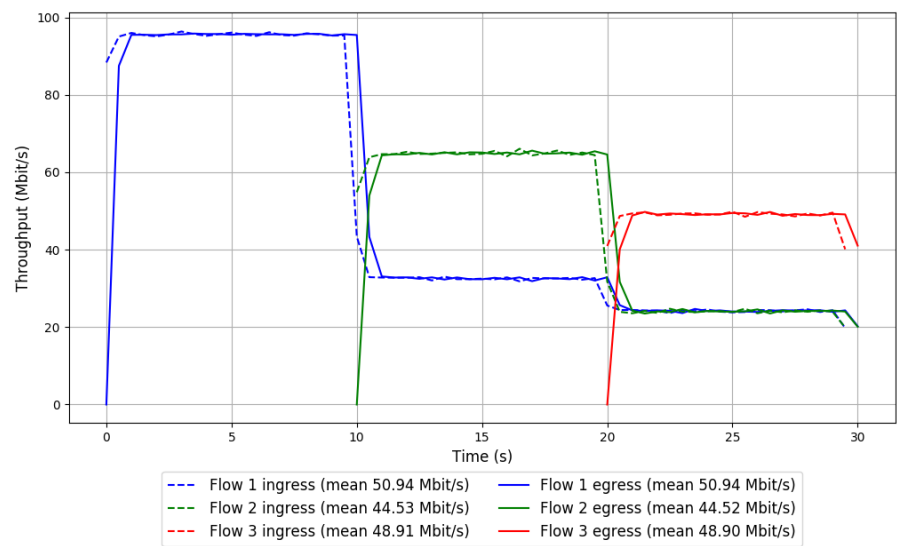
-- Flow 3:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 9.036 ms

Loss rate: 0.00%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-25 08:49:01

End at: 2018-09-25 08:49:31

Local clock offset: -4.858 ms

Remote clock offset: 0.244 ms

Below is generated by plot.py at 2018-09-25 10:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 19.151 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.78 Mbit/s

95th percentile per-packet one-way delay: 13.582 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 20.040 ms

Loss rate: 0.00%

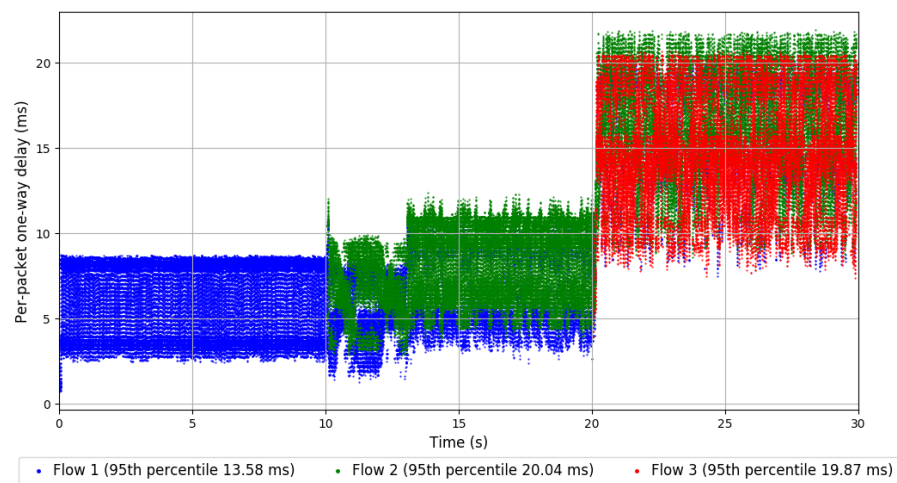
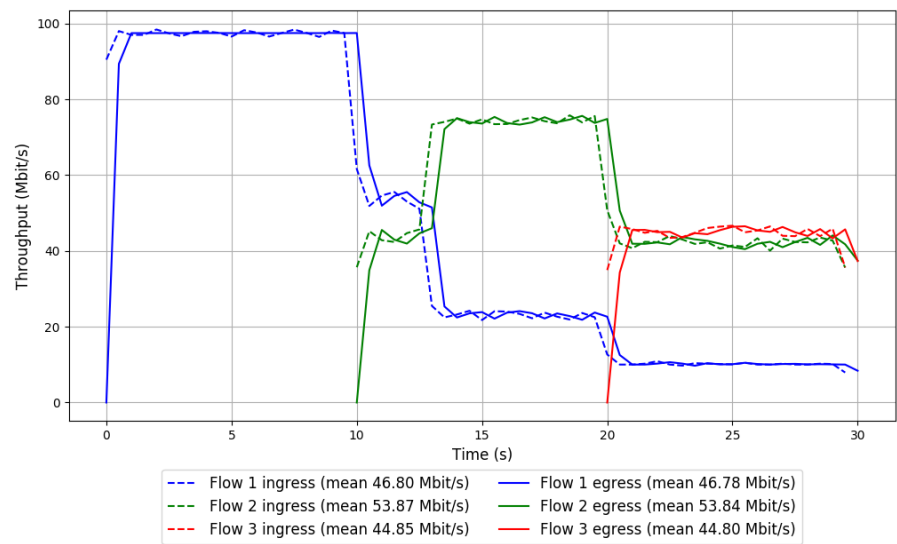
-- Flow 3:

Average throughput: 44.80 Mbit/s

95th percentile per-packet one-way delay: 19.873 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-25 09:10:37

End at: 2018-09-25 09:11:07

Local clock offset: -6.167 ms

Remote clock offset: 0.534 ms

Below is generated by plot.py at 2018-09-25 10:07:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 9.325 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.62 Mbit/s

95th percentile per-packet one-way delay: 9.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.59 Mbit/s

95th percentile per-packet one-way delay: 8.846 ms

Loss rate: 0.00%

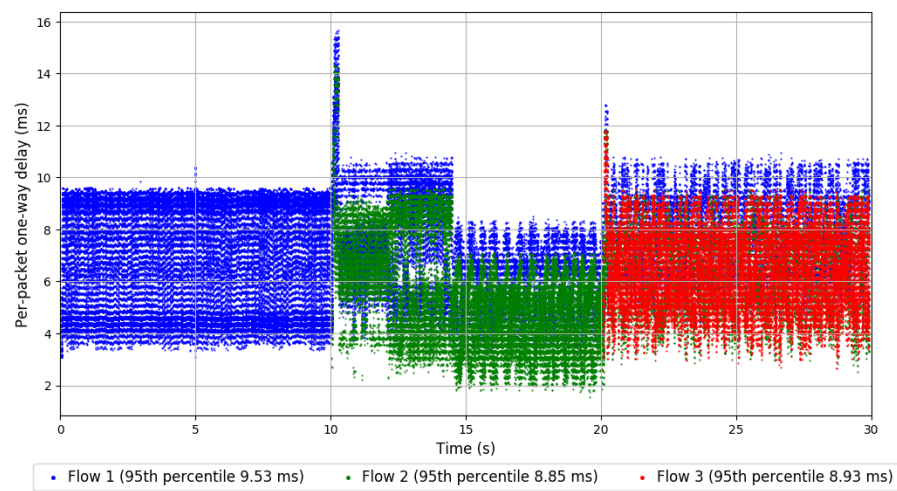
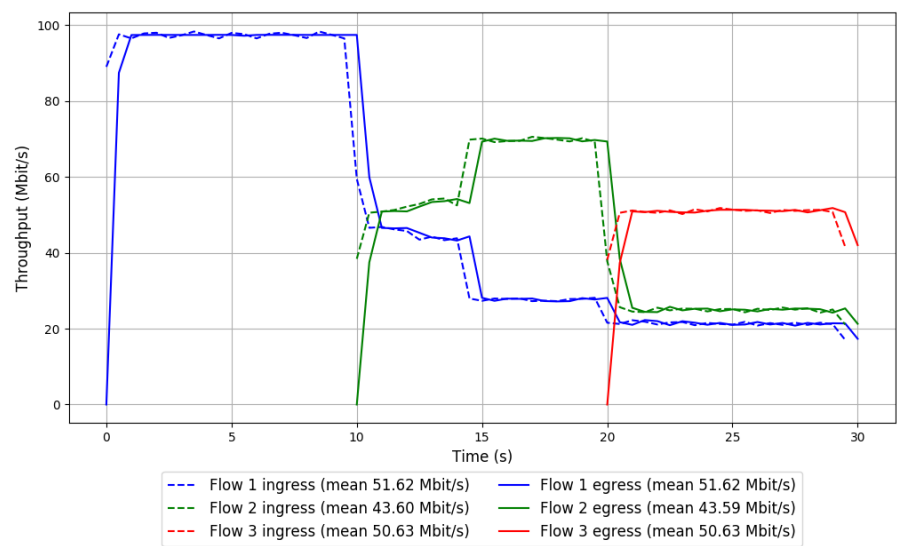
-- Flow 3:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 8.925 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-25 09:32:21

End at: 2018-09-25 09:32:51

Local clock offset: -6.313 ms

Remote clock offset: 0.559 ms

Below is generated by plot.py at 2018-09-25 10:07:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.61 Mbit/s

95th percentile per-packet one-way delay: 8.226 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.18 Mbit/s

95th percentile per-packet one-way delay: 6.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 8.735 ms

Loss rate: 0.00%

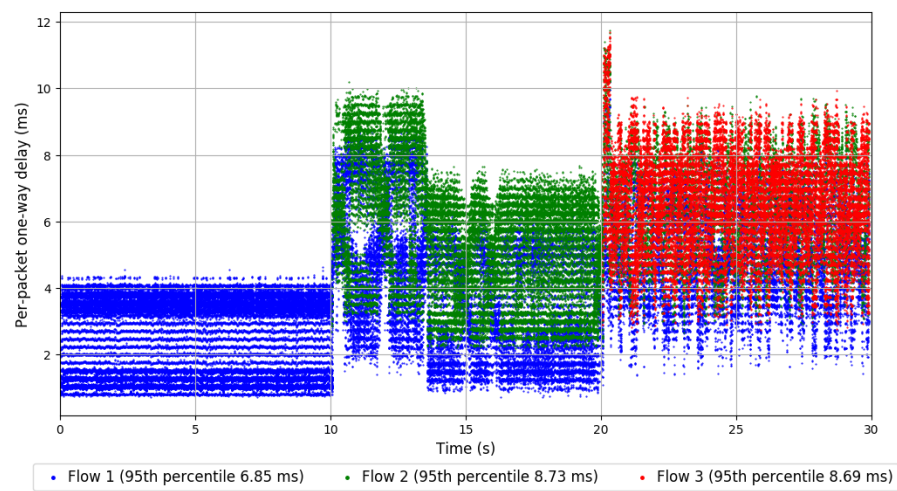
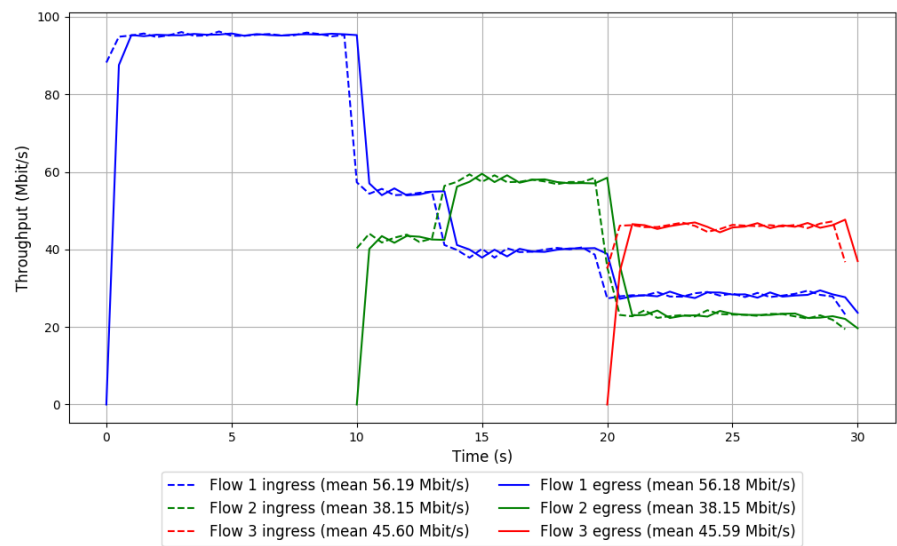
-- Flow 3:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 8.692 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-25 09:53:58

End at: 2018-09-25 09:54:28

Local clock offset: -4.878 ms

Remote clock offset: 0.676 ms

Below is generated by plot.py at 2018-09-25 10:07:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 21.536 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 12.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 21.627 ms

Loss rate: 0.00%

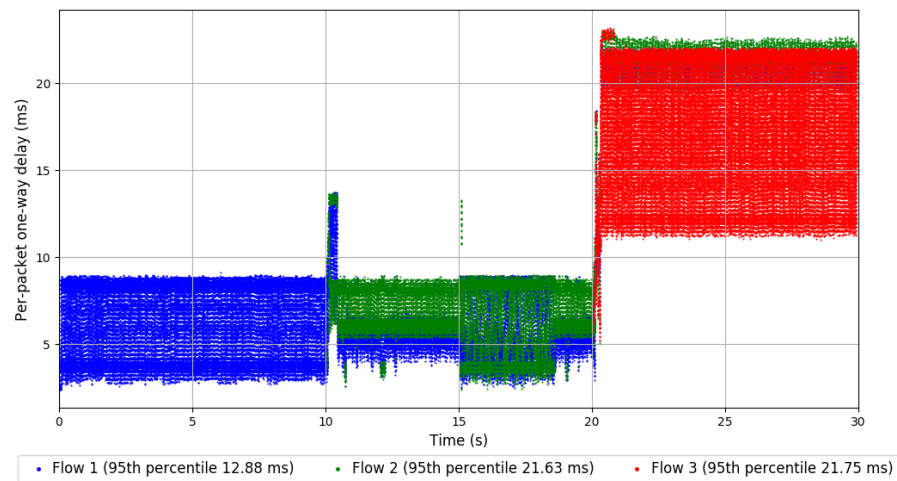
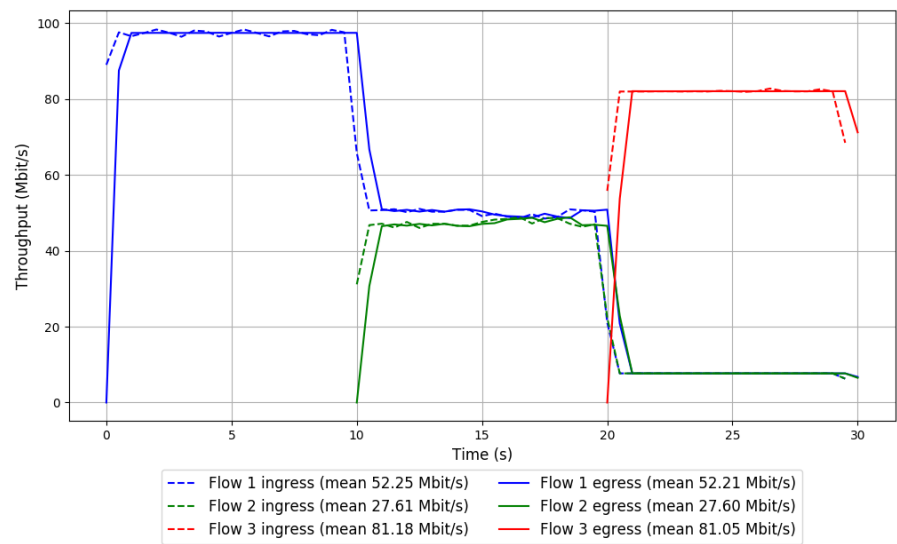
-- Flow 3:

Average throughput: 81.05 Mbit/s

95th percentile per-packet one-way delay: 21.750 ms

Loss rate: 0.00%

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

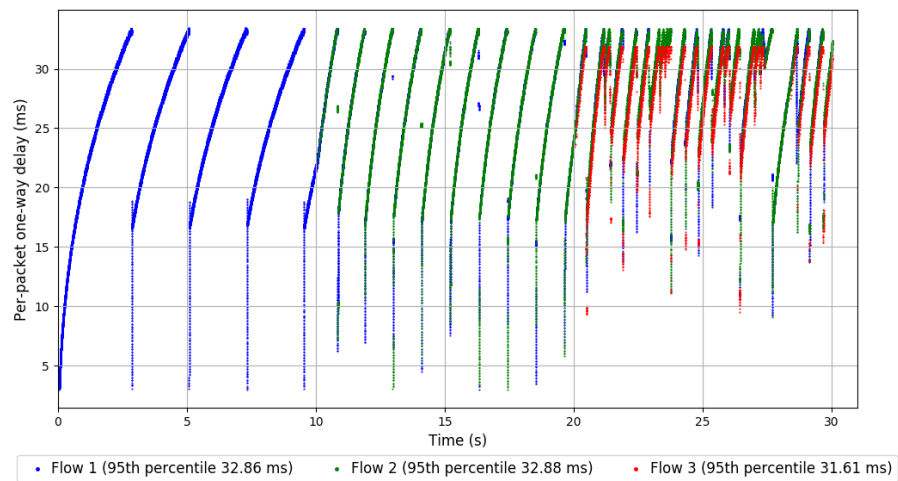
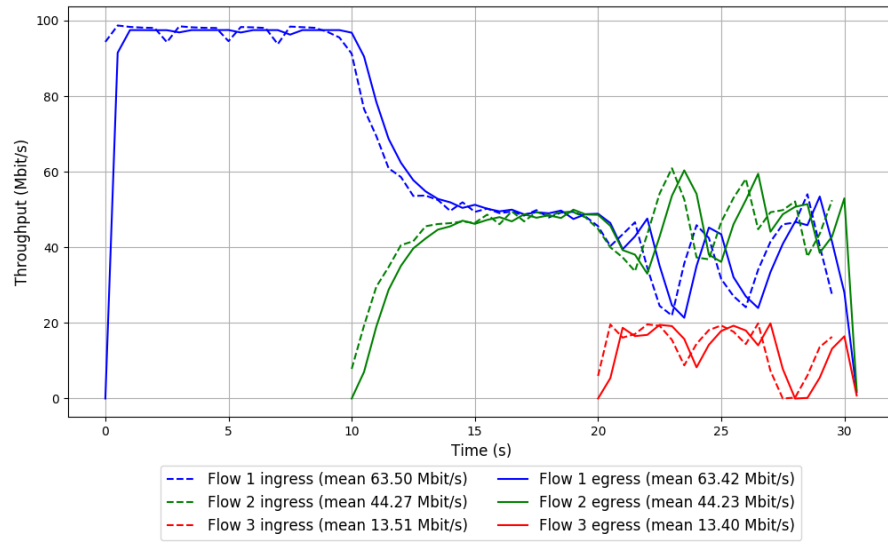


```
Run 1: Statistics of LEDBAT

Start at: 2018-09-25 08:33:05
End at: 2018-09-25 08:33:35
Local clock offset: -5.208 ms
Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-09-25 10:07:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 32.862 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 32.864 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 32.880 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 31.610 ms
Loss rate: 0.75%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-09-25 08:54:39

End at: 2018-09-25 08:55:09

Local clock offset: -5.01 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-09-25 10:07:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 32.259 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 61.50 Mbit/s

95th percentile per-packet one-way delay: 32.088 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 32.291 ms

Loss rate: 0.06%

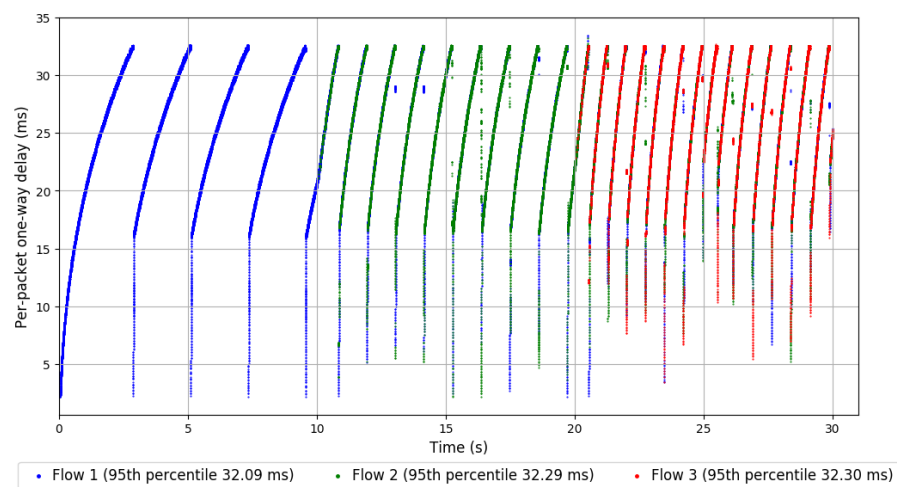
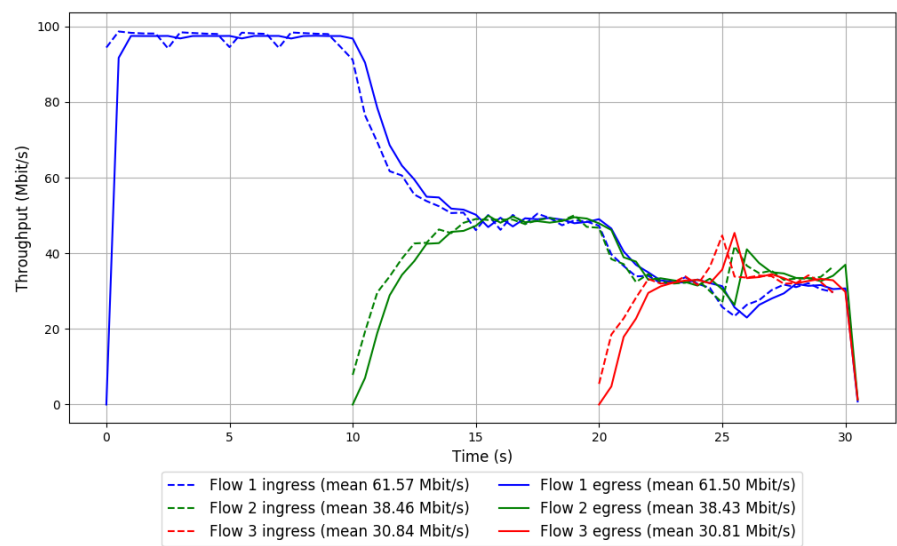
-- Flow 3:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 32.295 ms

Loss rate: 0.07%

Run 2: Report of LEDBAT — Data Link

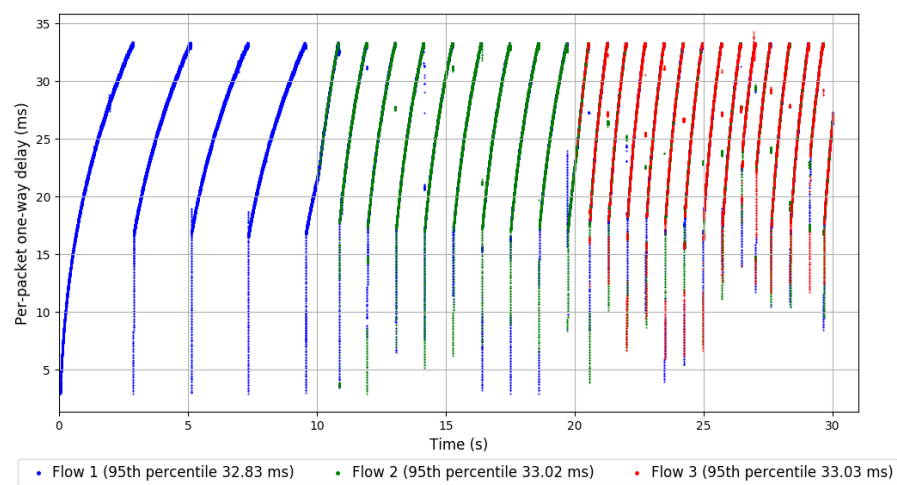
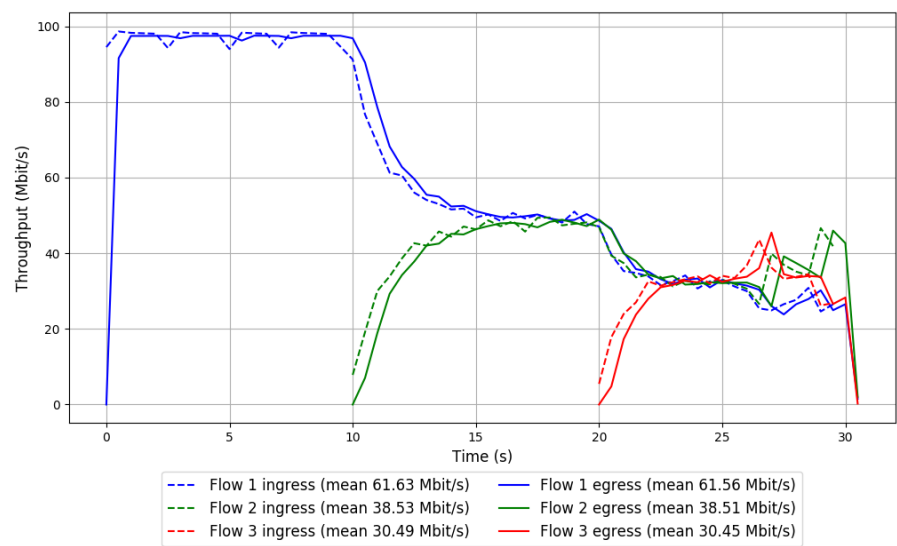


Run 3: Statistics of LEDBAT

Start at: 2018-09-25 09:16:15
End at: 2018-09-25 09:16:45
Local clock offset: -6.488 ms
Remote clock offset: 0.466 ms

Below is generated by plot.py at 2018-09-25 10:08:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 32.973 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.56 Mbit/s
95th percentile per-packet one-way delay: 32.827 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 33.021 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 33.030 ms
Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link

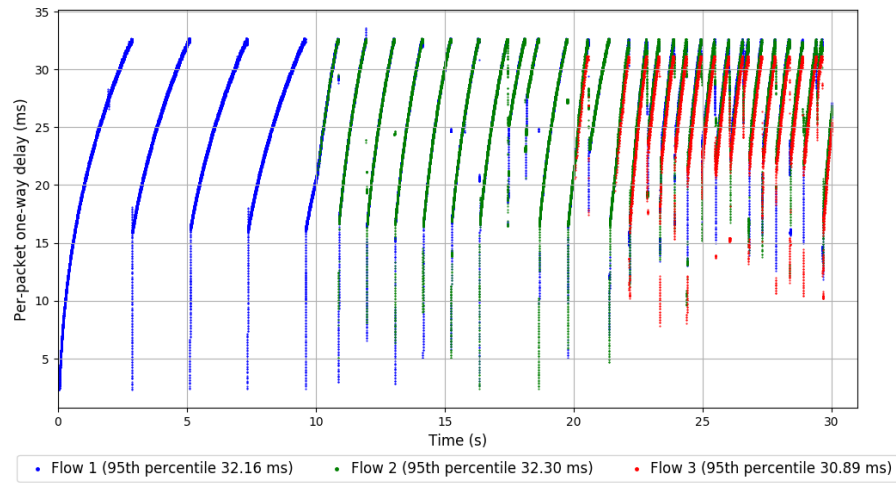
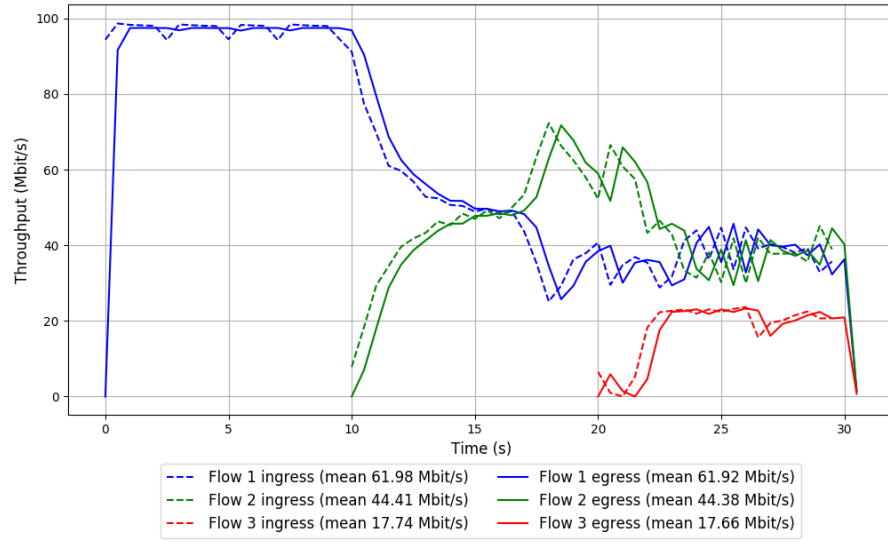


Run 4: Statistics of LEDBAT

Start at: 2018-09-25 09:38:00
End at: 2018-09-25 09:38:30
Local clock offset: -6.463 ms
Remote clock offset: 0.663 ms

Below is generated by plot.py at 2018-09-25 10:08:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 32.155 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 61.92 Mbit/s
95th percentile per-packet one-way delay: 32.158 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 32.295 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 30.888 ms
Loss rate: 0.40%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-09-25 09:59:36

End at: 2018-09-25 10:00:06

Local clock offset: -4.619 ms

Remote clock offset: 0.648 ms

Below is generated by plot.py at 2018-09-25 10:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 30.934 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 30.726 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 37.38 Mbit/s

95th percentile per-packet one-way delay: 30.881 ms

Loss rate: 0.08%

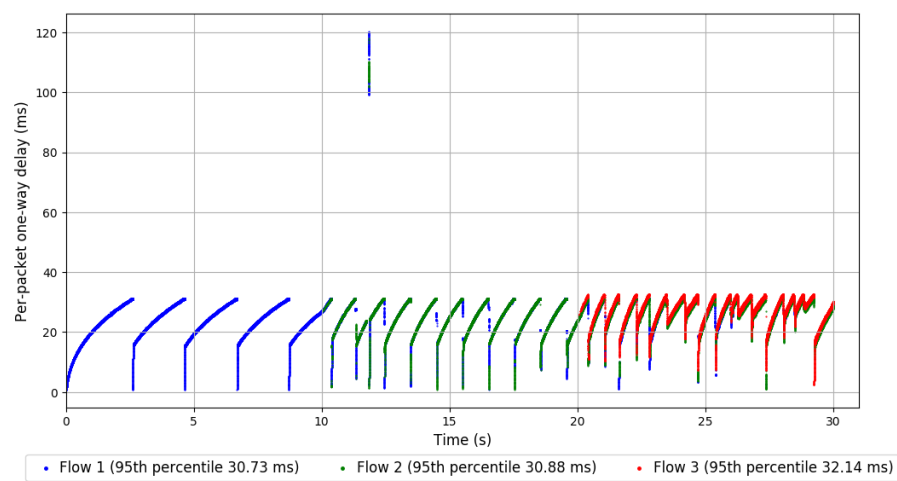
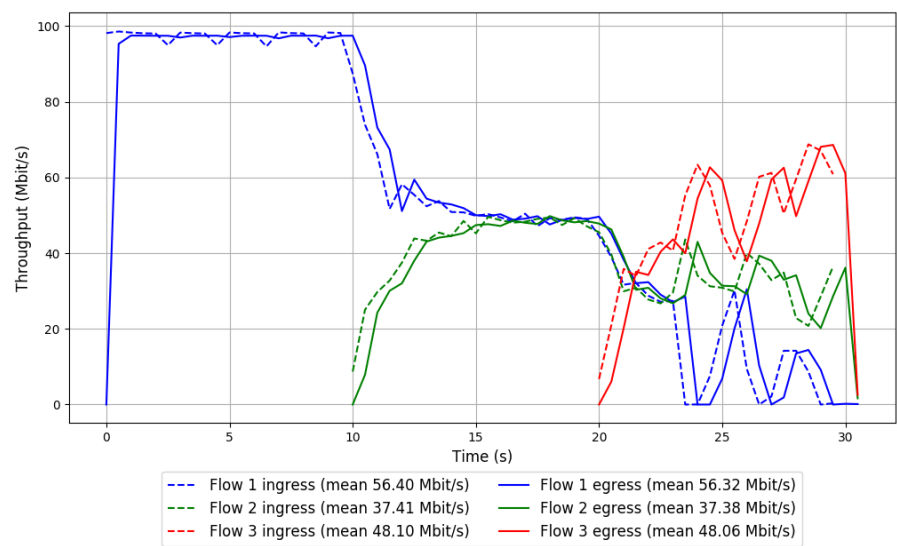
-- Flow 3:

Average throughput: 48.06 Mbit/s

95th percentile per-packet one-way delay: 32.141 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Indigo-Muses

Start at: 2018-09-25 08:17:07

End at: 2018-09-25 08:17:37

Local clock offset: -5.129 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-09-25 10:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.36 Mbit/s

95th percentile per-packet one-way delay: 4.097 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 4.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 4.129 ms

Loss rate: 0.00%

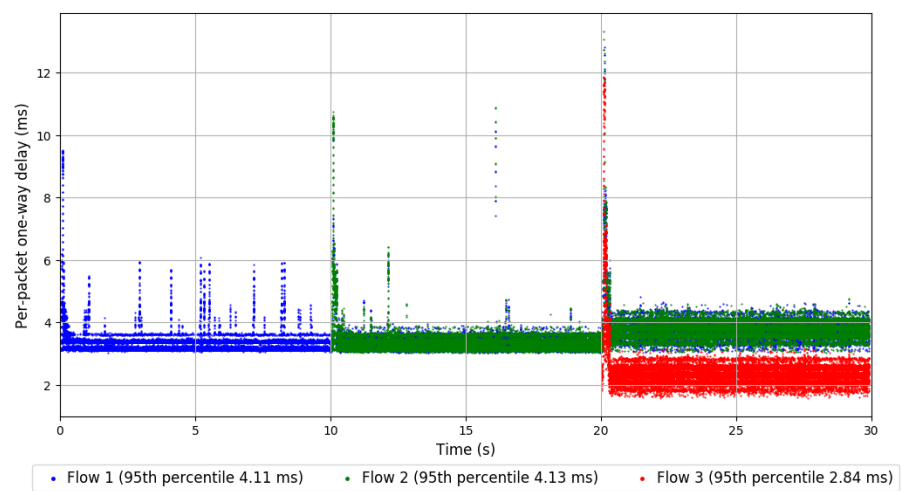
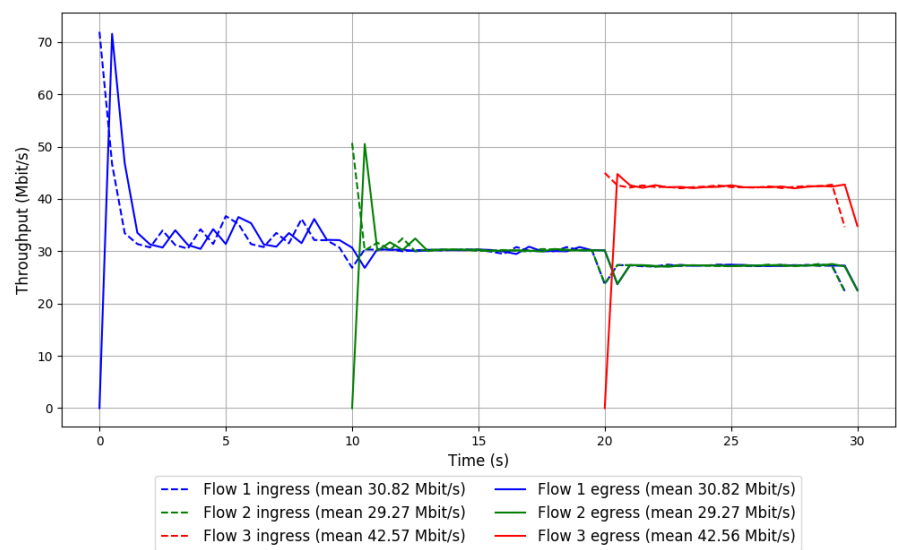
-- Flow 3:

Average throughput: 42.56 Mbit/s

95th percentile per-packet one-way delay: 2.839 ms

Loss rate: 0.00%

Run 1: Report of Indigo-Muses — Data Link



Run 2: Statistics of Indigo-Muses

Start at: 2018-09-25 08:38:47

End at: 2018-09-25 08:39:17

Local clock offset: -4.573 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-09-25 10:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 2.989 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 2.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 2.933 ms

Loss rate: 0.00%

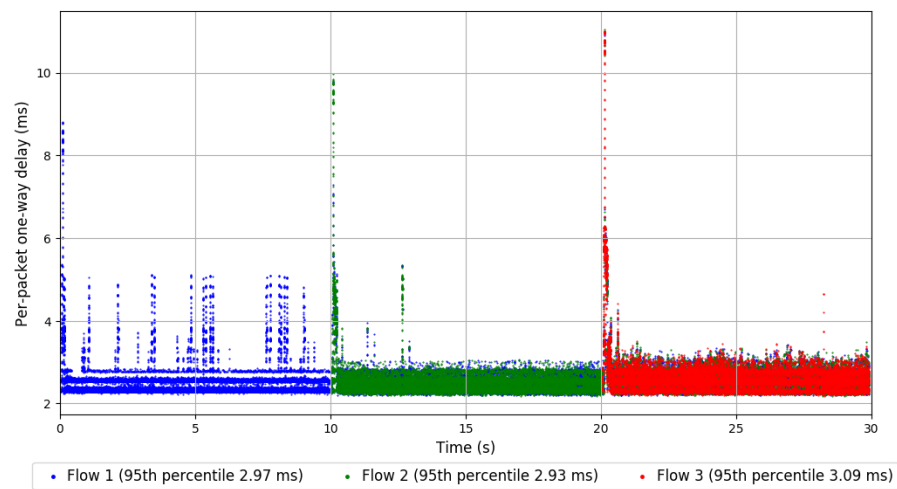
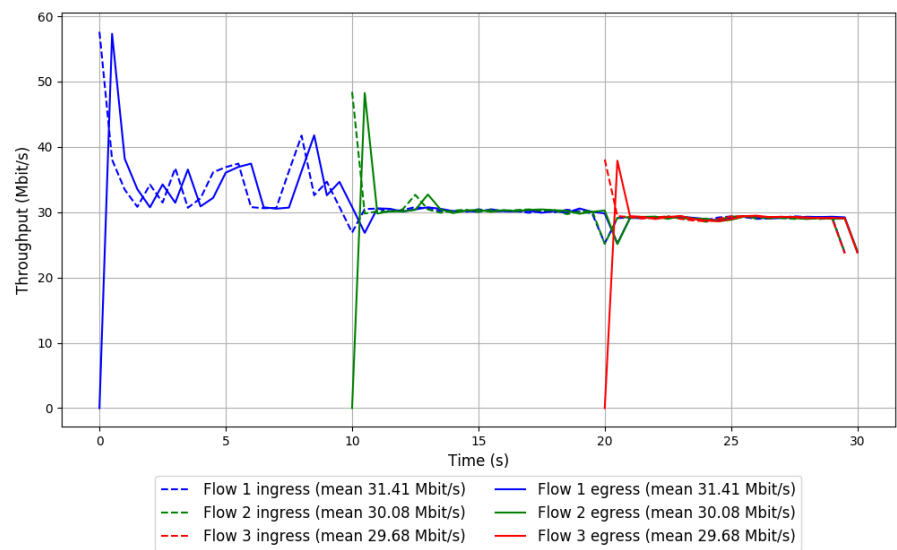
-- Flow 3:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 3.087 ms

Loss rate: 0.00%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-09-25 09:00:21

End at: 2018-09-25 09:00:51

Local clock offset: -5.885 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2018-09-25 10:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 4.325 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 4.522 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 3.080 ms

Loss rate: 0.00%

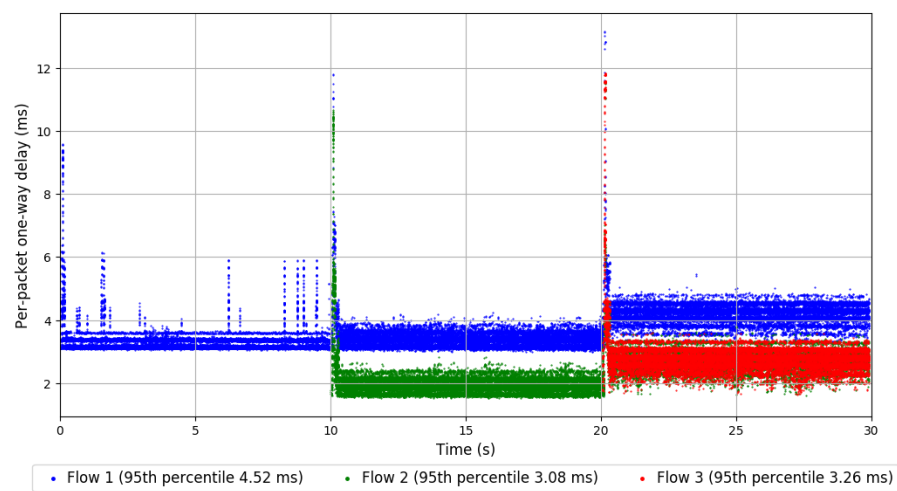
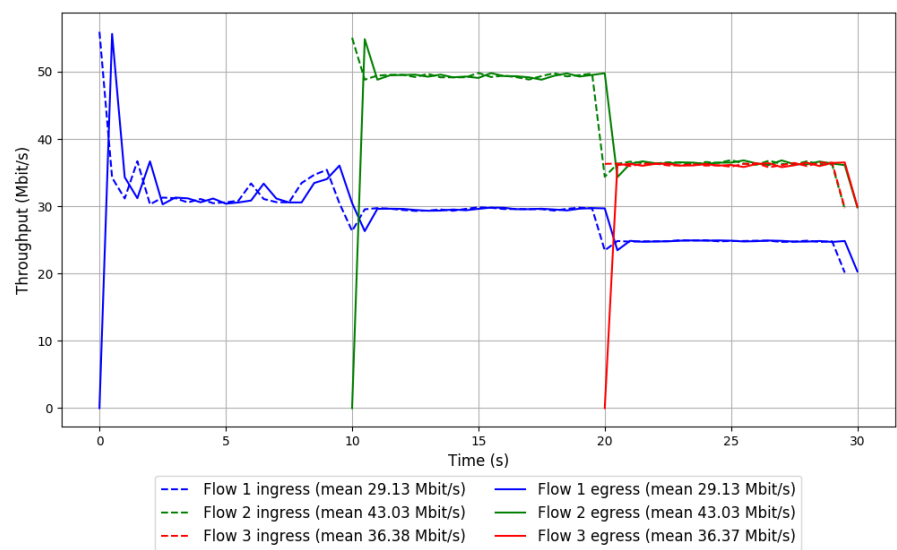
-- Flow 3:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 3.264 ms

Loss rate: 0.00%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-25 09:22:06

End at: 2018-09-25 09:22:36

Local clock offset: -5.974 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at 2018-09-25 10:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.28 Mbit/s

95th percentile per-packet one-way delay: 3.251 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 3.282 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.60 Mbit/s

95th percentile per-packet one-way delay: 1.792 ms

Loss rate: 0.00%

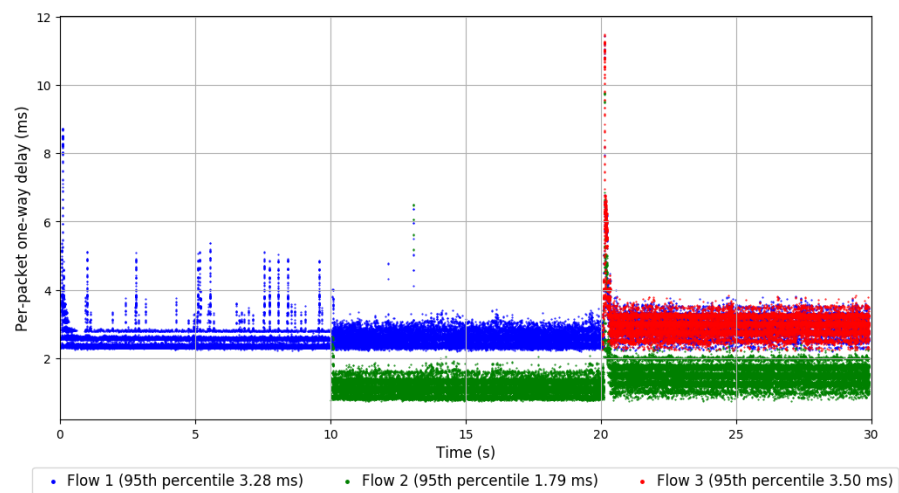
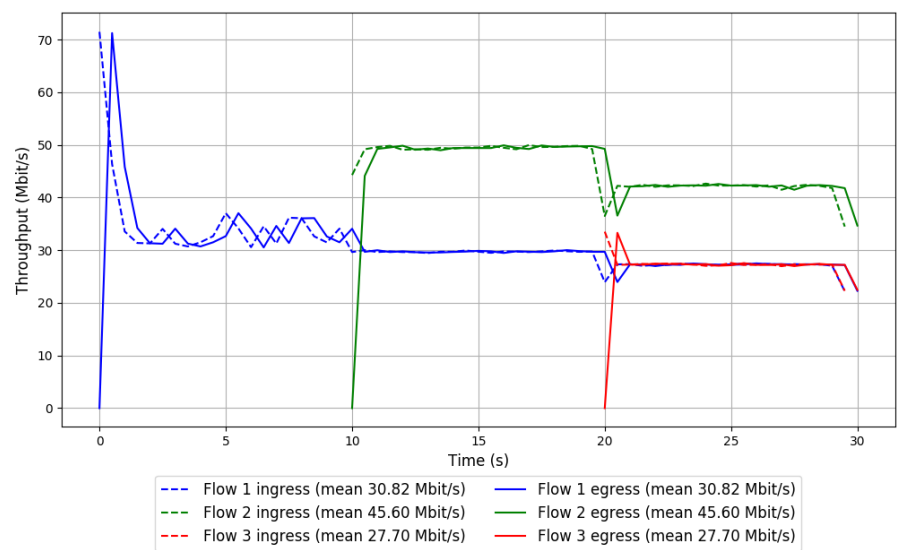
-- Flow 3:

Average throughput: 27.70 Mbit/s

95th percentile per-packet one-way delay: 3.500 ms

Loss rate: 0.00%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-09-25 09:43:41

End at: 2018-09-25 09:44:11

Local clock offset: -6.462 ms

Remote clock offset: 0.621 ms

Below is generated by plot.py at 2018-09-25 10:08:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 3.424 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 3.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 3.420 ms

Loss rate: 0.00%

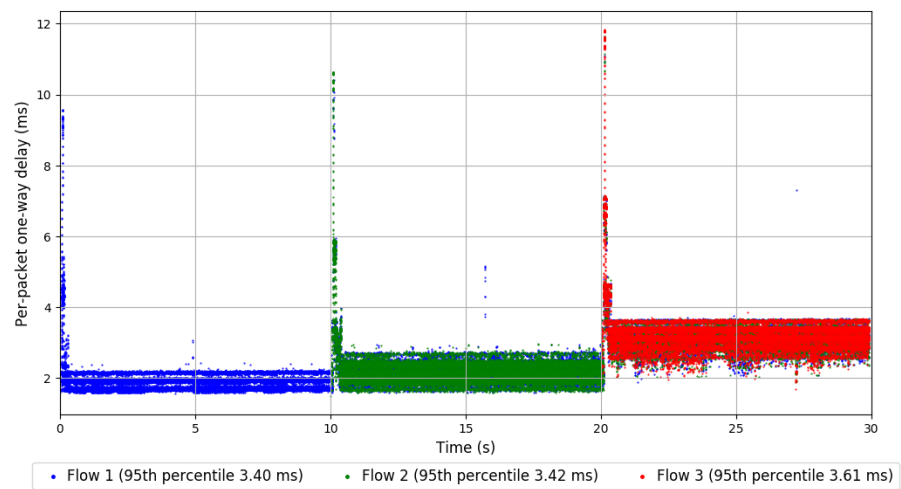
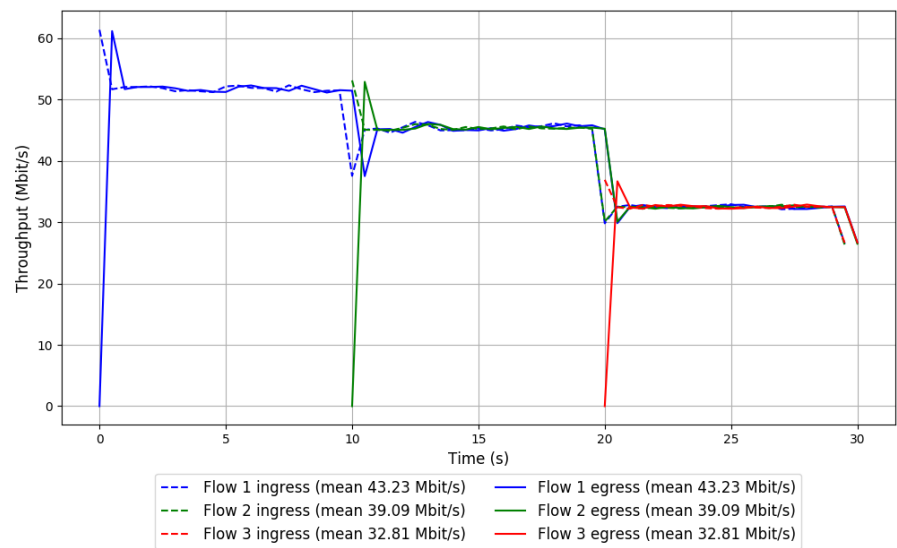
-- Flow 3:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 3.613 ms

Loss rate: 0.00%

Run 5: Report of Indigo-Muses — Data Link

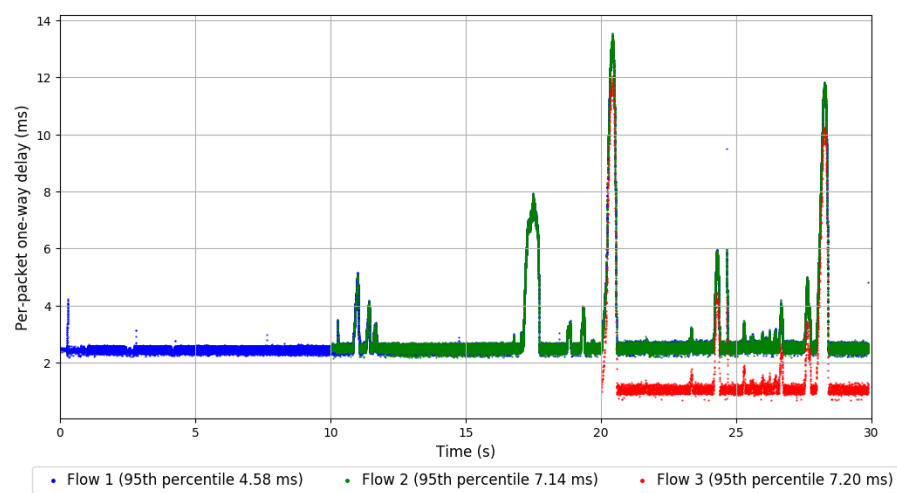
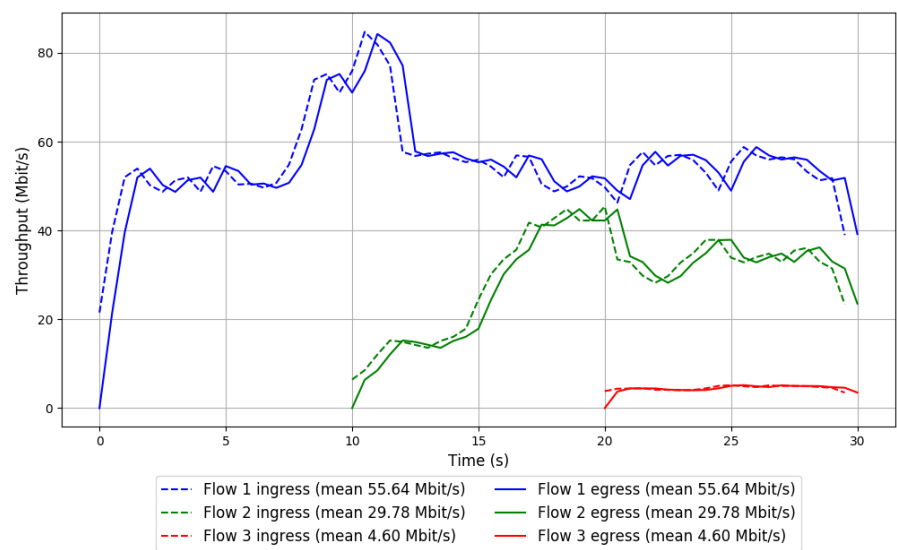


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-09-25 08:22:50
End at: 2018-09-25 08:23:20
Local clock offset: -4.431 ms
Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2018-09-25 10:08:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 5.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.64 Mbit/s
95th percentile per-packet one-way delay: 4.585 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 7.137 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 7.200 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-09-25 08:44:29

End at: 2018-09-25 08:44:59

Local clock offset: -4.787 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-09-25 10:09:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.55 Mbit/s

95th percentile per-packet one-way delay: 24.679 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 18.702 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 43.26 Mbit/s

95th percentile per-packet one-way delay: 27.735 ms

Loss rate: 0.07%

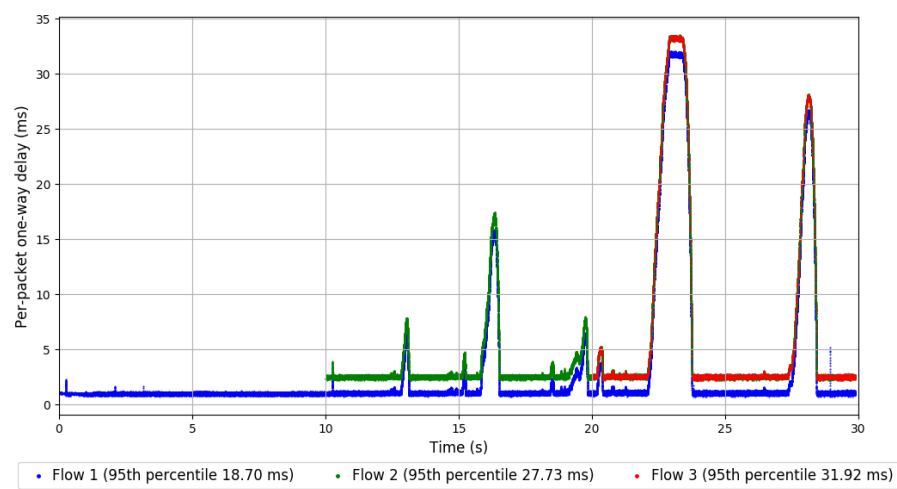
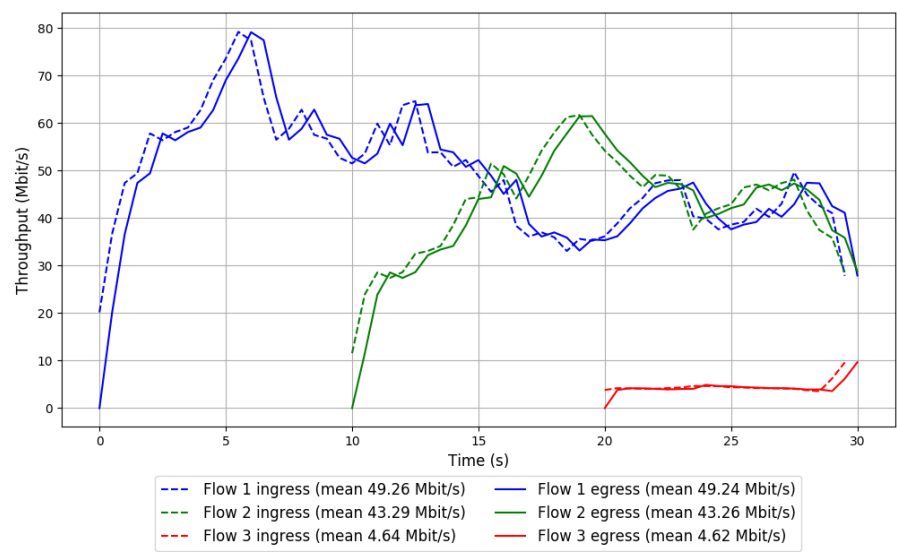
-- Flow 3:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 31.924 ms

Loss rate: 0.40%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-09-25 09:06:05

End at: 2018-09-25 09:06:35

Local clock offset: -5.984 ms

Remote clock offset: 0.531 ms

Below is generated by plot.py at 2018-09-25 10:09:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.08 Mbit/s

95th percentile per-packet one-way delay: 5.273 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 5.114 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.08 Mbit/s

95th percentile per-packet one-way delay: 9.734 ms

Loss rate: 0.00%

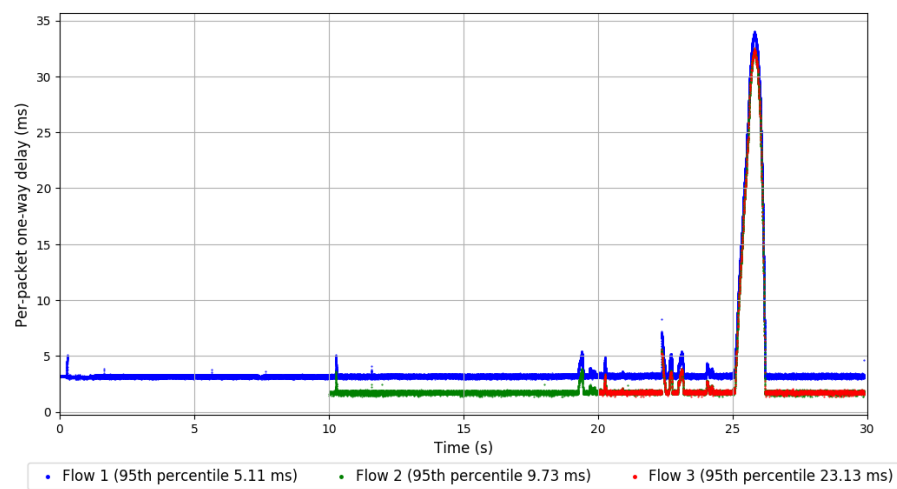
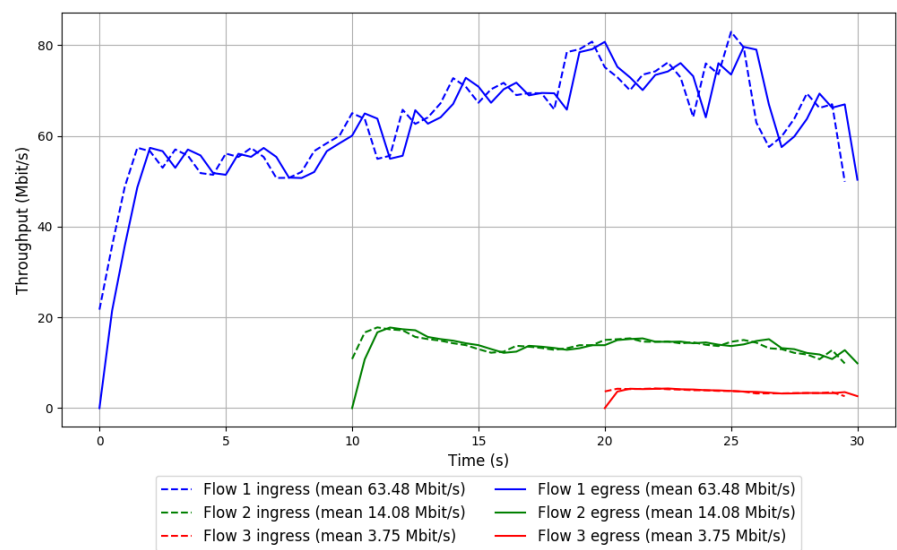
-- Flow 3:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 23.127 ms

Loss rate: 0.03%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-09-25 09:27:49

End at: 2018-09-25 09:28:19

Local clock offset: -6.951 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2018-09-25 10:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.83 Mbit/s

95th percentile per-packet one-way delay: 11.337 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 10.432 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 14.238 ms

Loss rate: 0.00%

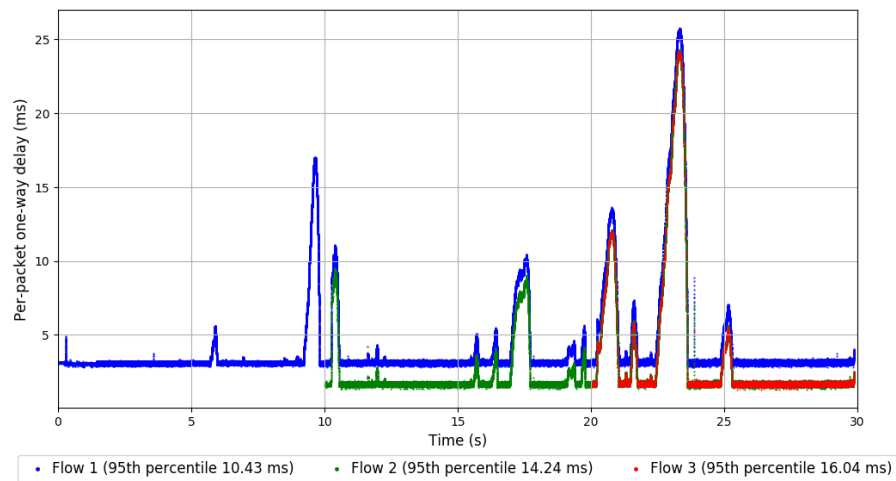
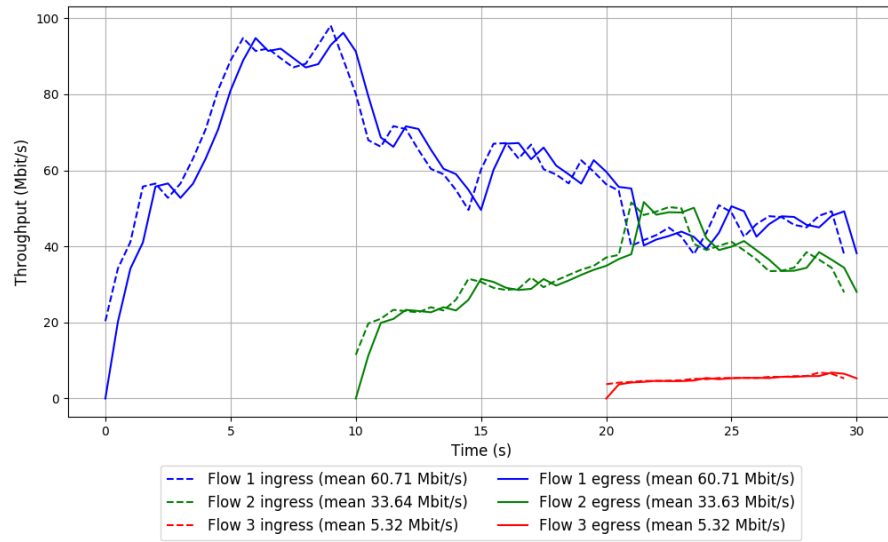
-- Flow 3:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 16.037 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-09-25 09:49:27

End at: 2018-09-25 09:49:57

Local clock offset: -5.163 ms

Remote clock offset: 0.619 ms

Below is generated by plot.py at 2018-09-25 10:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.70 Mbit/s

95th percentile per-packet one-way delay: 15.527 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 15.952 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 16.599 ms

Loss rate: 0.07%

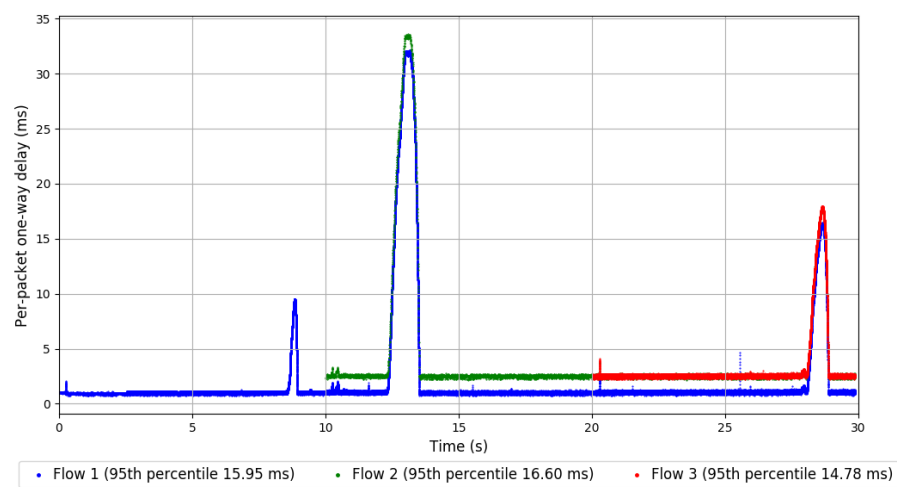
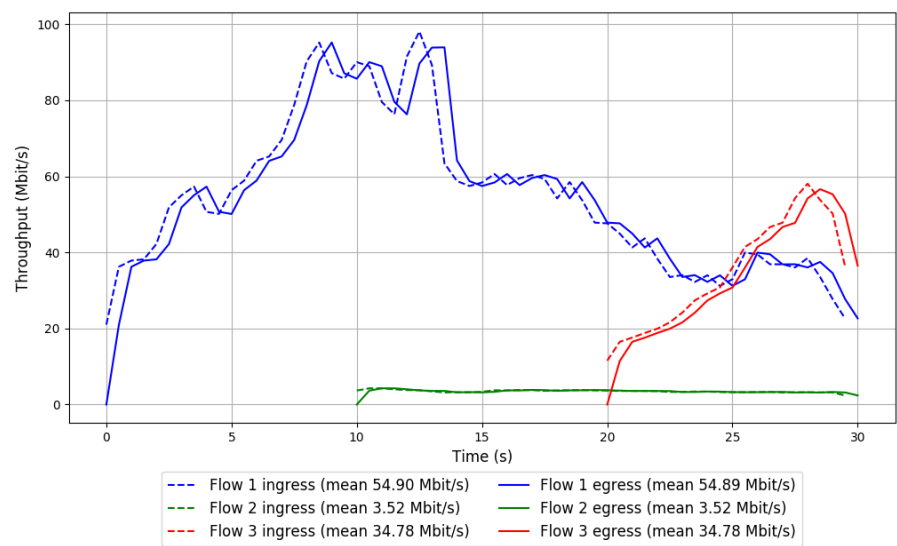
-- Flow 3:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 14.783 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

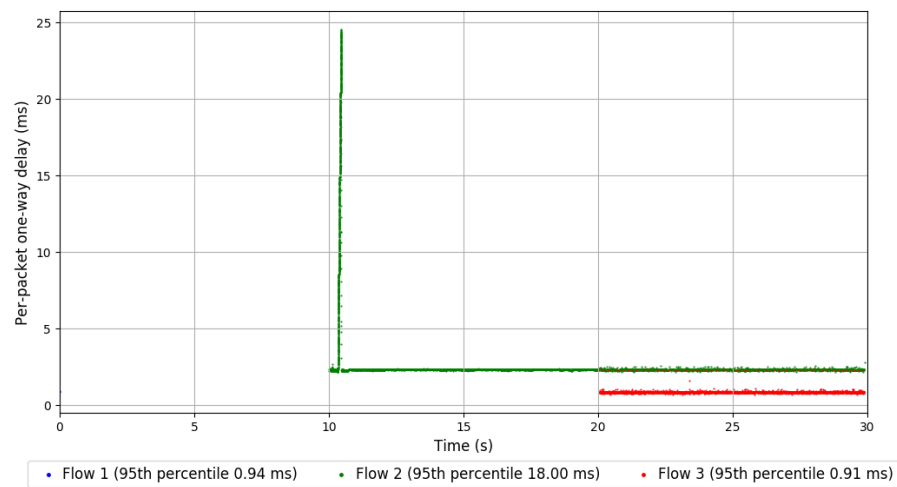
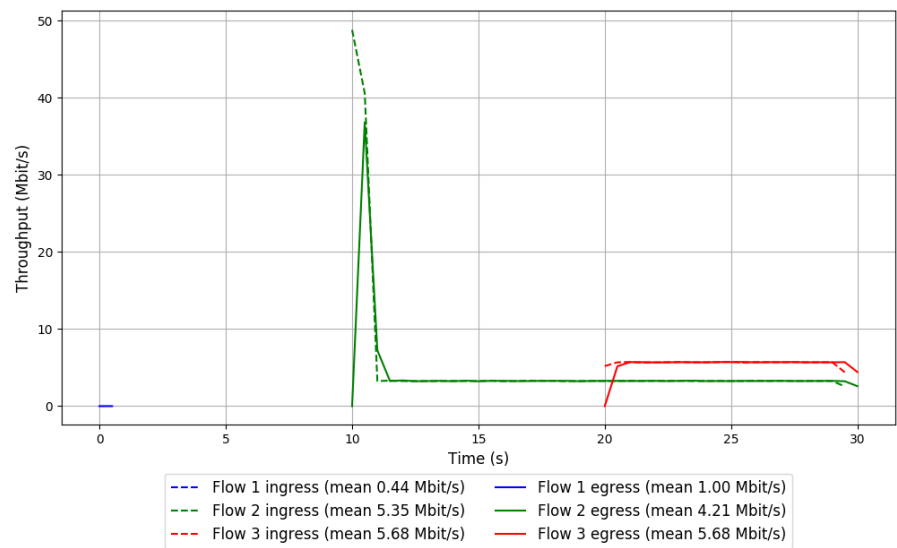


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-25 08:16:01
End at: 2018-09-25 08:16:31
Local clock offset: -4.355 ms
Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-09-25 10:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 12.100 ms
Loss rate: 13.95%
-- Flow 1:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 0.941 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 18.001 ms
Loss rate: 21.30%
-- Flow 3:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 0.910 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-09-25 08:37:41

End at: 2018-09-25 08:38:11

Local clock offset: -4.486 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-09-25 10:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 2.591 ms

Loss rate: 24.38%

-- Flow 1:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 5.643 ms

Loss rate: 26.78%

-- Flow 2:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 2.443 ms

Loss rate: 21.27%

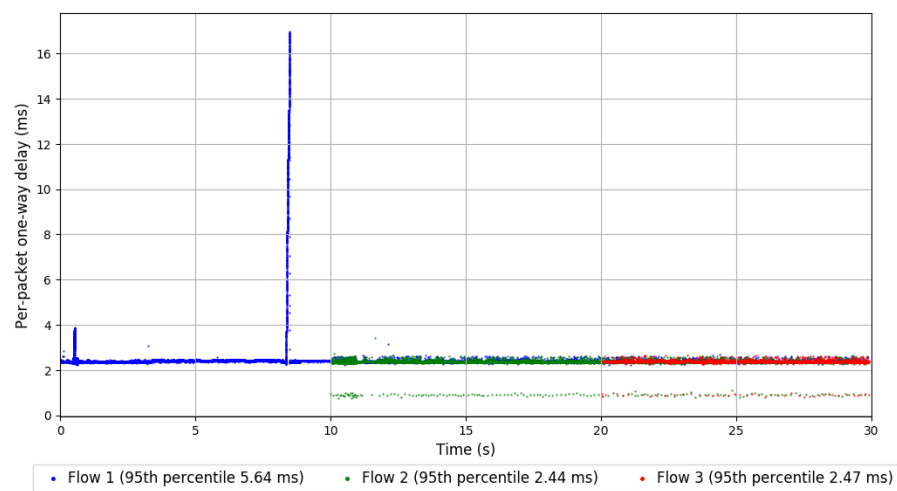
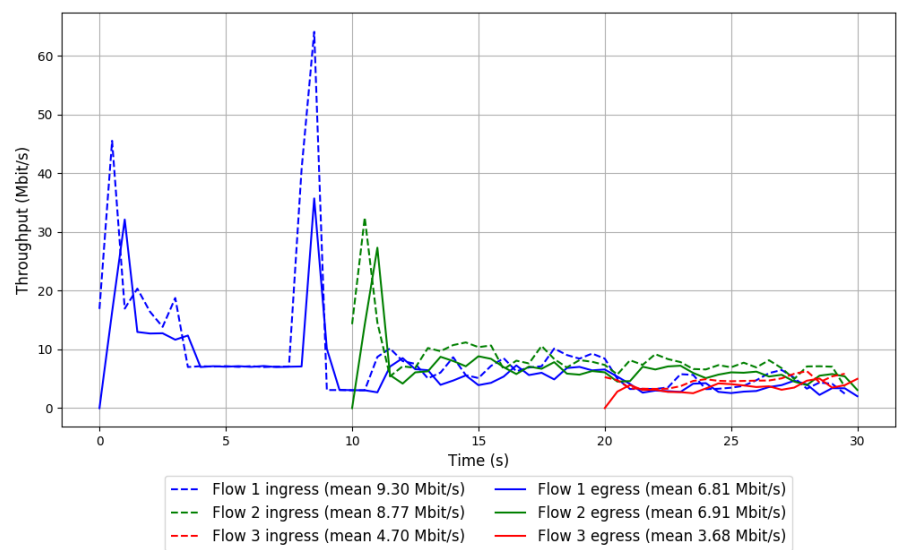
-- Flow 3:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 2.472 ms

Loss rate: 21.73%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-09-25 08:59:16

End at: 2018-09-25 08:59:46

Local clock offset: -5.177 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-09-25 10:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 2.497 ms

Loss rate: 22.12%

-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 2.496 ms

Loss rate: 20.78%

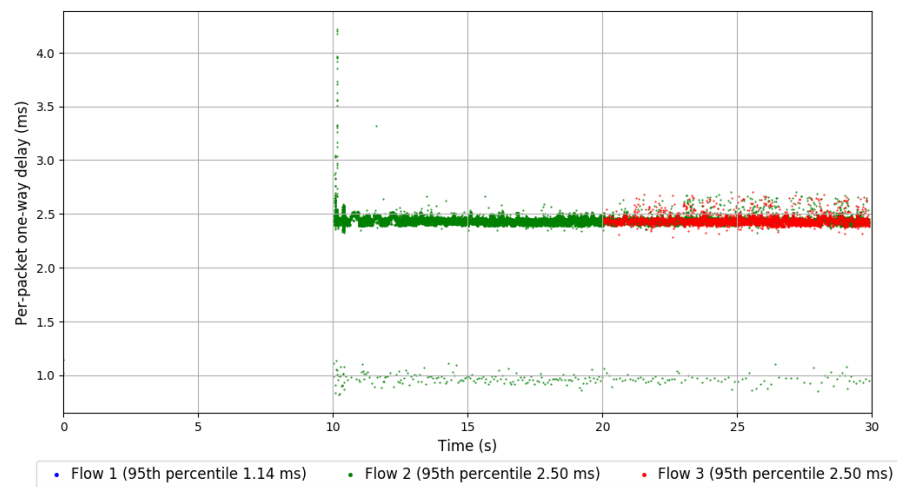
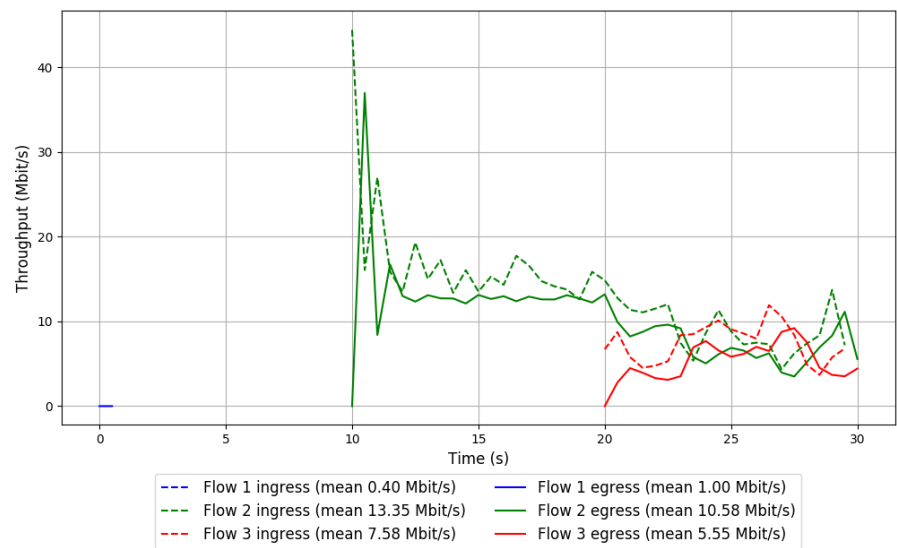
-- Flow 3:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 2.499 ms

Loss rate: 26.86%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-09-25 09:20:56

End at: 2018-09-25 09:21:26

Local clock offset: -5.927 ms

Remote clock offset: 0.513 ms

Below is generated by plot.py at 2018-09-25 10:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 2.319 ms

Loss rate: 97.21%

-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 0.906 ms

Loss rate: 95.49%

-- Flow 2:

Average throughput: 5.64 Mbit/s

95th percentile per-packet one-way delay: 2.373 ms

Loss rate: 97.21%

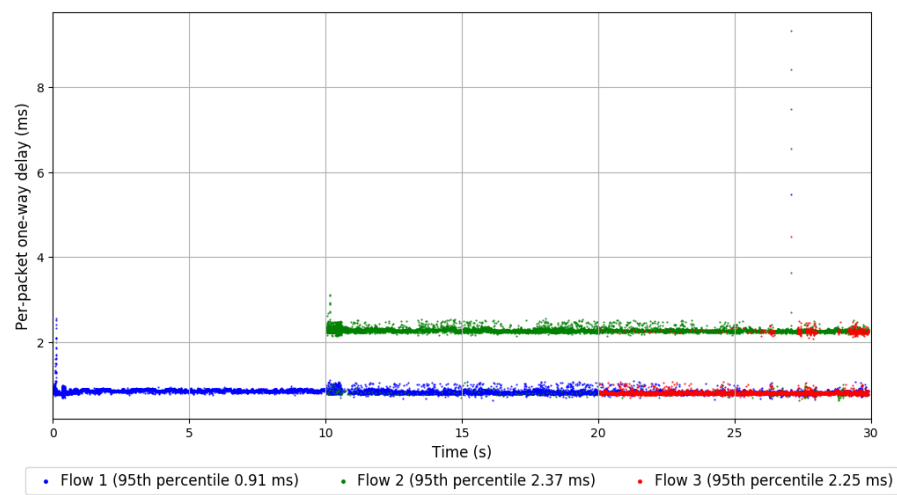
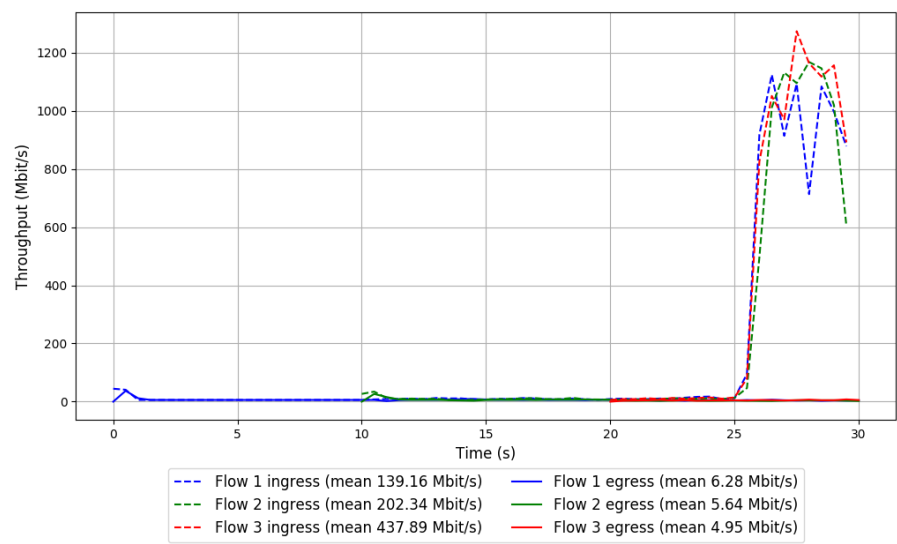
-- Flow 3:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 2.255 ms

Loss rate: 98.87%

Run 4: Report of PCC-Expr — Data Link

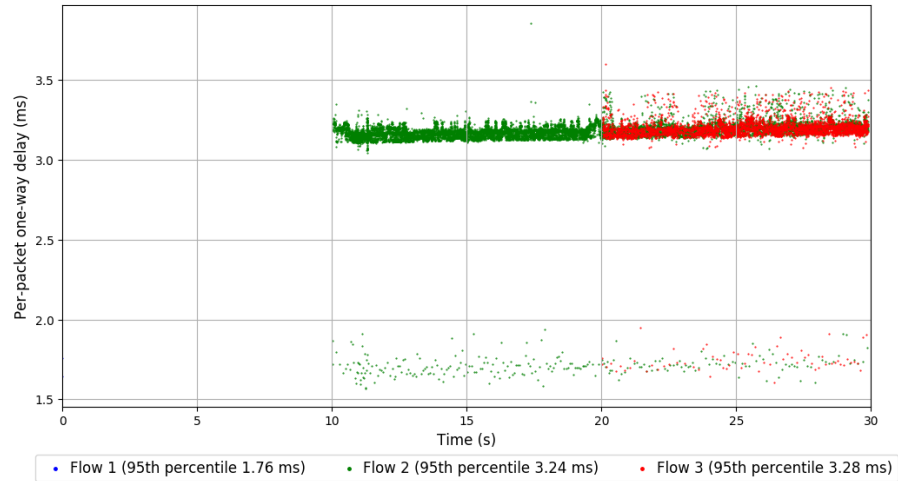
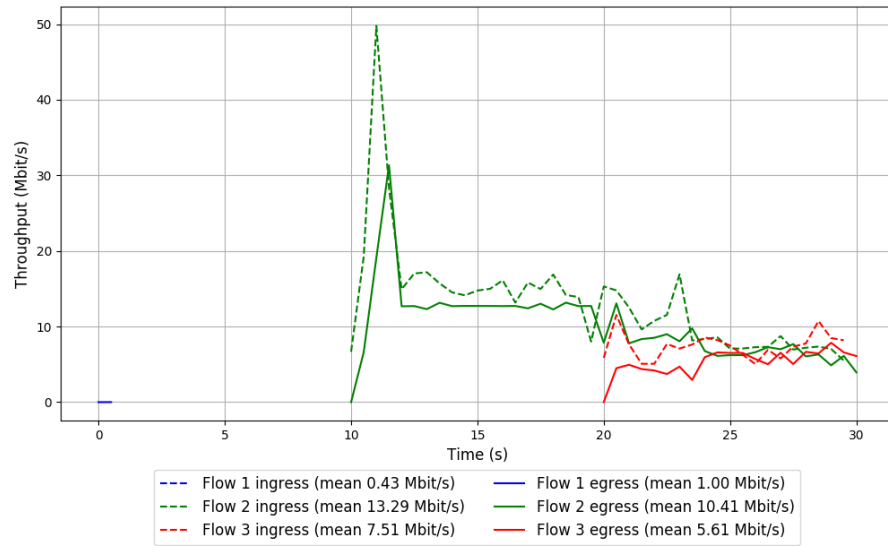


```
Run 5: Statistics of PCC-Expr

Start at: 2018-09-25 09:42:36
End at: 2018-09-25 09:43:06
Local clock offset: -6.628 ms
Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2018-09-25 10:10:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 3.244 ms
Loss rate: 22.46%
-- Flow 1:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 1.757 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.41 Mbit/s
95th percentile per-packet one-way delay: 3.237 ms
Loss rate: 21.66%
-- Flow 3:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 3.278 ms
Loss rate: 25.30%
```

Run 5: Report of PCC-Expr — Data Link

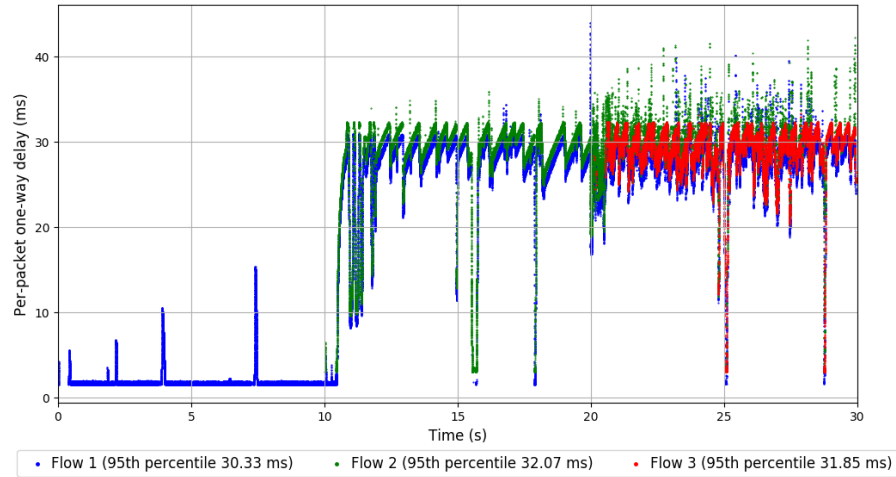
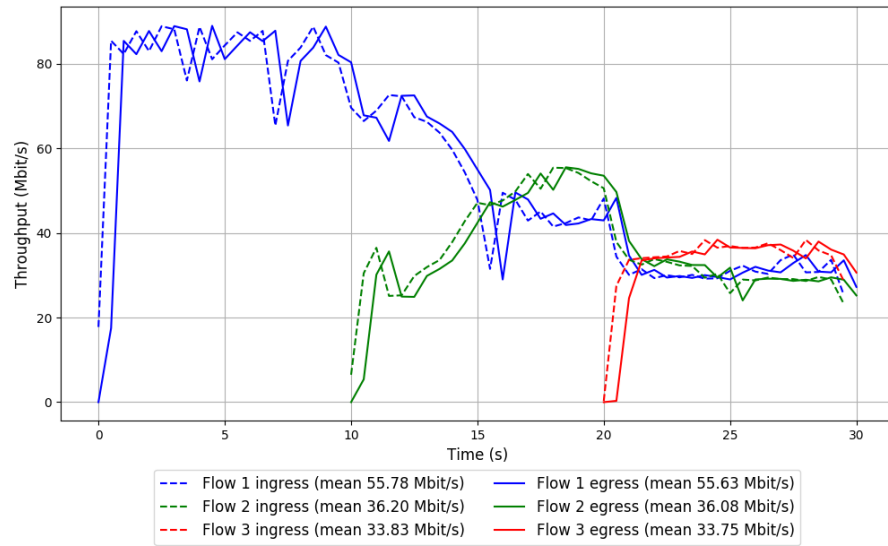


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-09-25 08:30:47
End at: 2018-09-25 08:31:17
Local clock offset: -5.181 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2018-09-25 10:10:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 31.646 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 30.332 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 36.08 Mbit/s
95th percentile per-packet one-way delay: 32.074 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 31.850 ms
Loss rate: 0.28%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-09-25 08:52:21

End at: 2018-09-25 08:52:51

Local clock offset: -5.711 ms

Remote clock offset: 0.41 ms

Below is generated by plot.py at 2018-09-25 10:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 31.473 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 30.424 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 31.969 ms

Loss rate: 0.21%

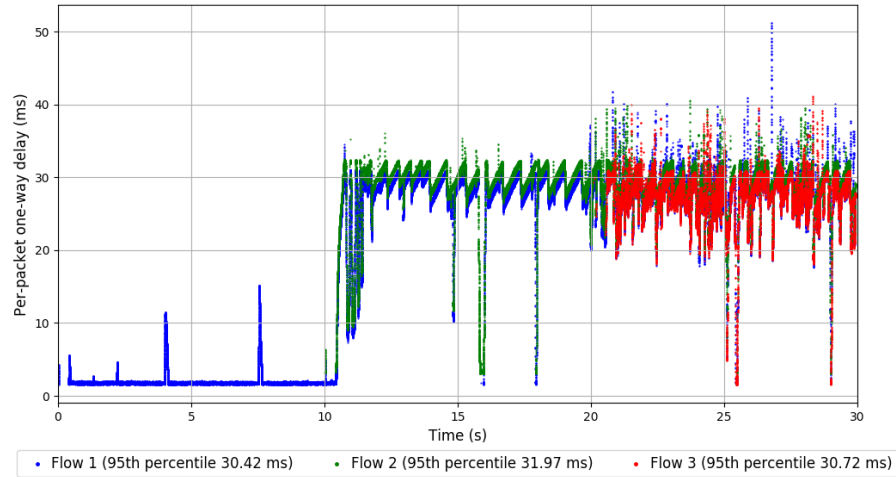
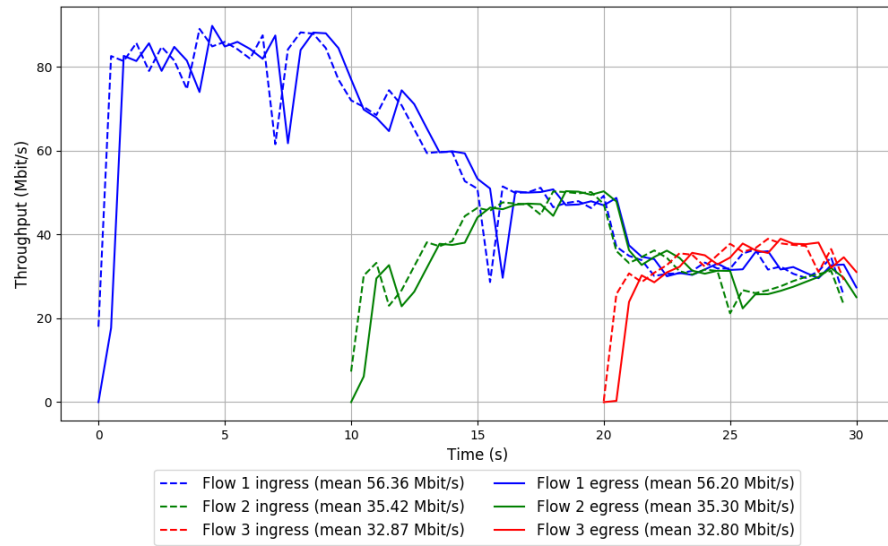
-- Flow 3:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 30.719 ms

Loss rate: 0.25%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-09-25 09:13:57

End at: 2018-09-25 09:14:27

Local clock offset: -5.593 ms

Remote clock offset: 0.596 ms

Below is generated by plot.py at 2018-09-25 10:10:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 30.716 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 29.647 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 31.236 ms

Loss rate: 0.16%

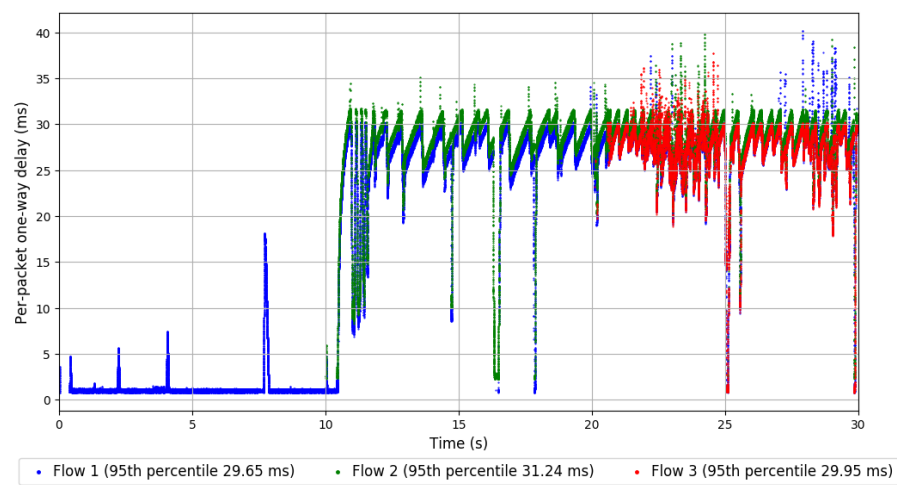
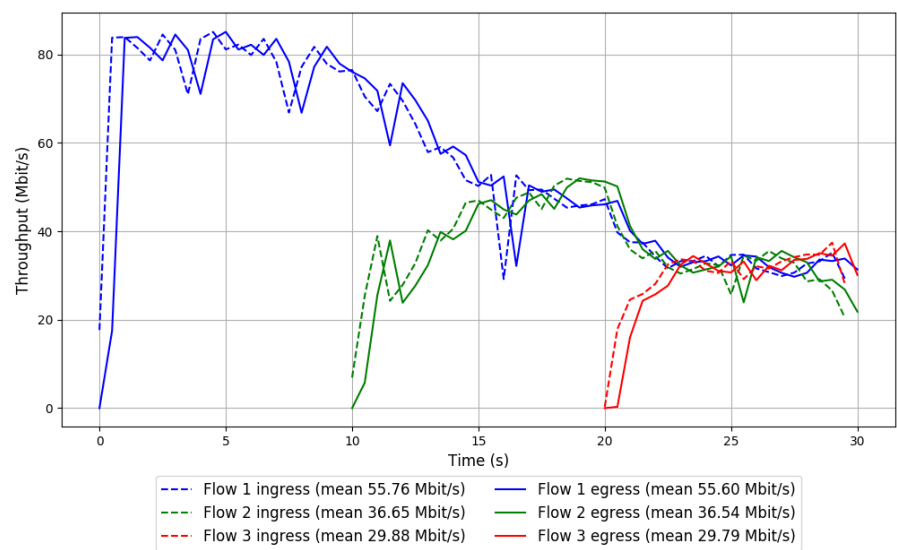
-- Flow 3:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 29.953 ms

Loss rate: 0.24%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-09-25 09:35:42

End at: 2018-09-25 09:36:12

Local clock offset: -7.227 ms

Remote clock offset: 0.511 ms

Below is generated by plot.py at 2018-09-25 10:10:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 31.580 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 57.47 Mbit/s

95th percentile per-packet one-way delay: 31.744 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 30.562 ms

Loss rate: 0.17%

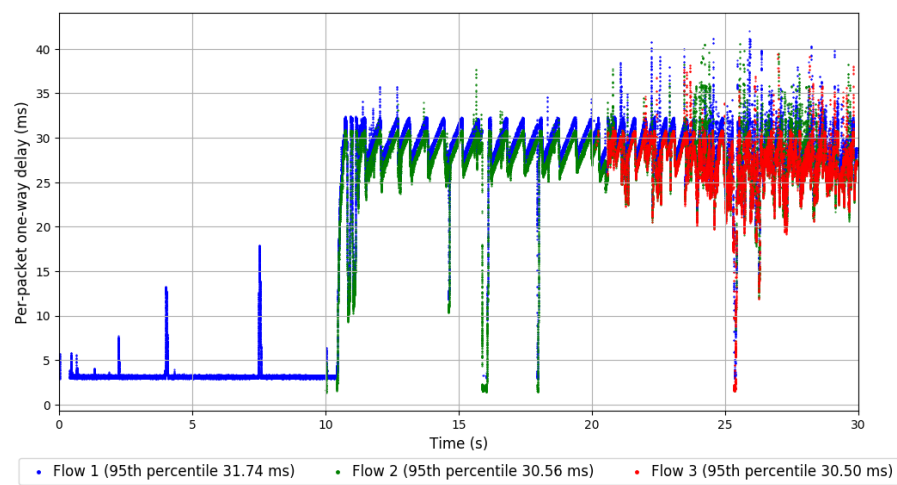
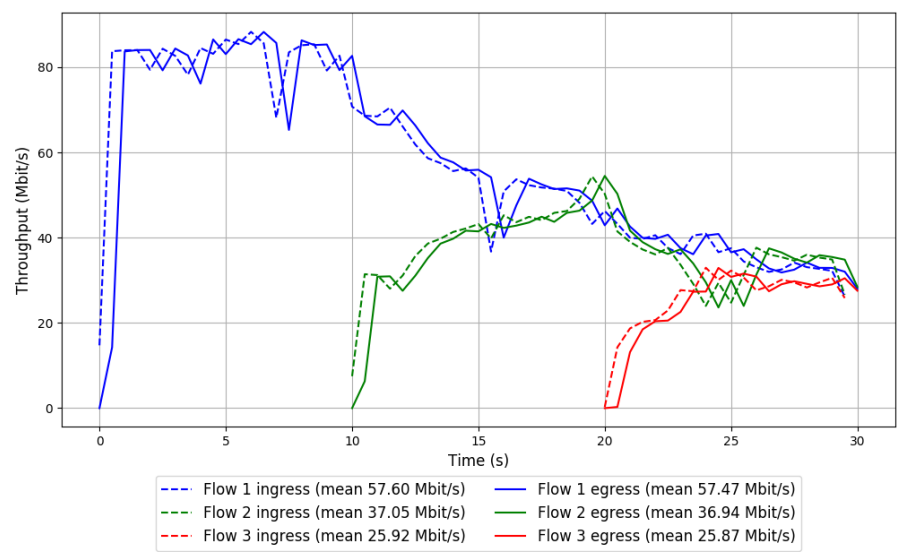
-- Flow 3:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 30.499 ms

Loss rate: 0.19%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-09-25 09:57:19

End at: 2018-09-25 09:57:49

Local clock offset: -5.464 ms

Remote clock offset: 0.61 ms

Below is generated by plot.py at 2018-09-25 10:10:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 32.045 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 55.82 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 32.130 ms

Loss rate: 0.20%

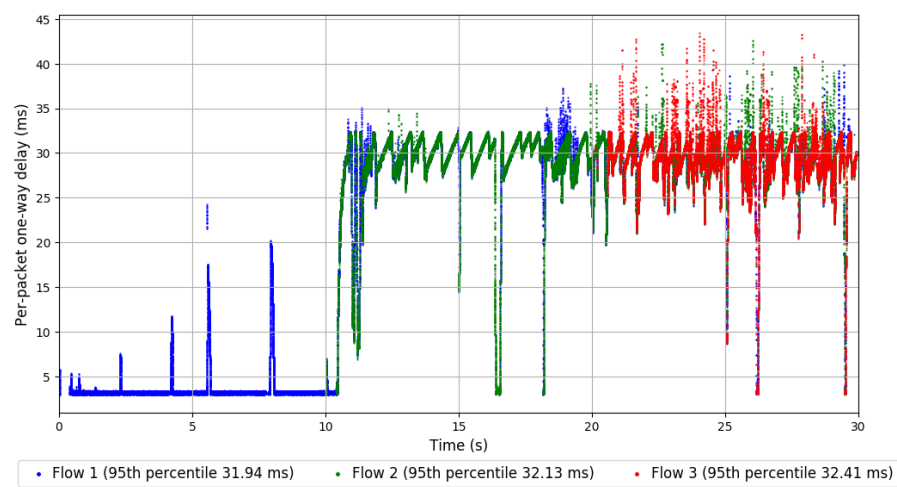
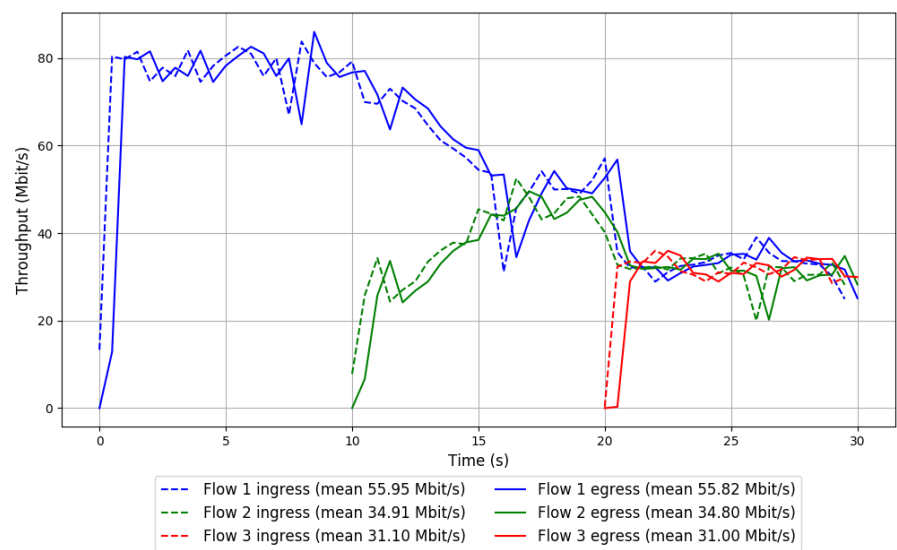
-- Flow 3:

Average throughput: 31.00 Mbit/s

95th percentile per-packet one-way delay: 32.407 ms

Loss rate: 0.34%

Run 5: Report of QUIC Cubic — Data Link

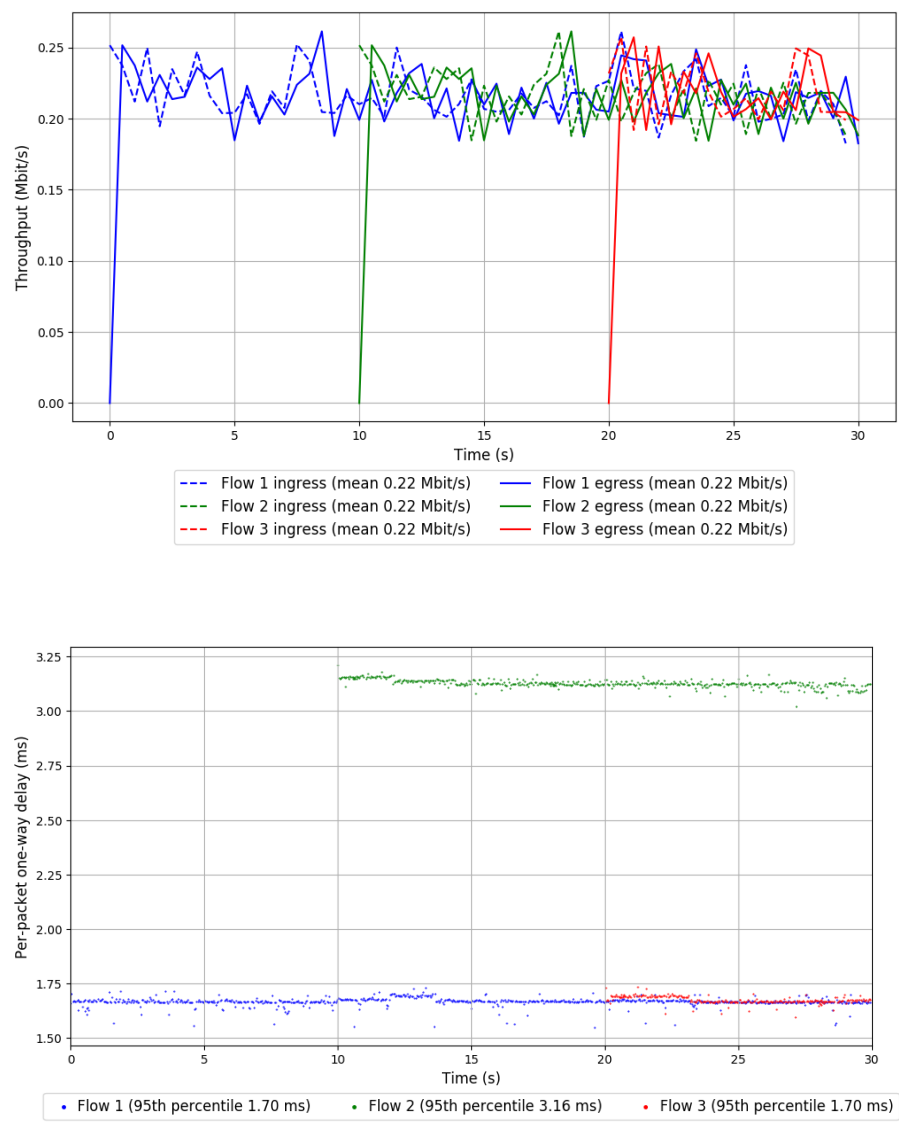



```
Run 1: Statistics of SReAM

Start at: 2018-09-25 08:26:21
End at: 2018-09-25 08:26:51
Local clock offset: -5.147 ms
Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2018-09-25 10:10:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.695 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.158 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.697 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

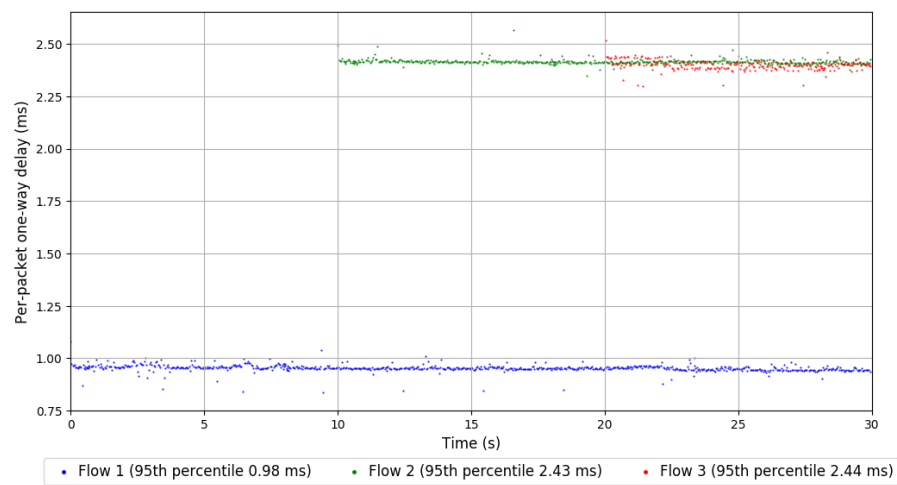
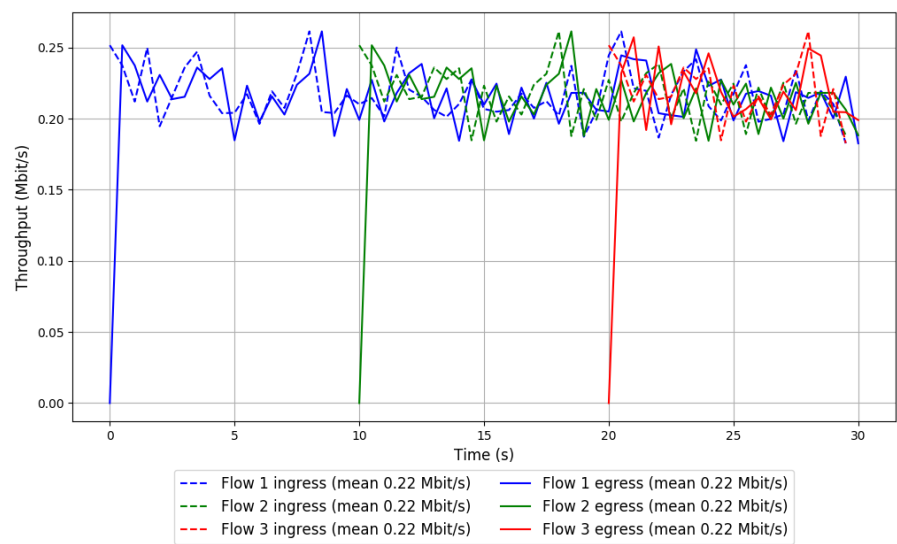


Run 2: Statistics of SReAM

Start at: 2018-09-25 08:47:55
End at: 2018-09-25 08:48:25
Local clock offset: -4.889 ms
Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-09-25 10:10:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.431 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.437 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

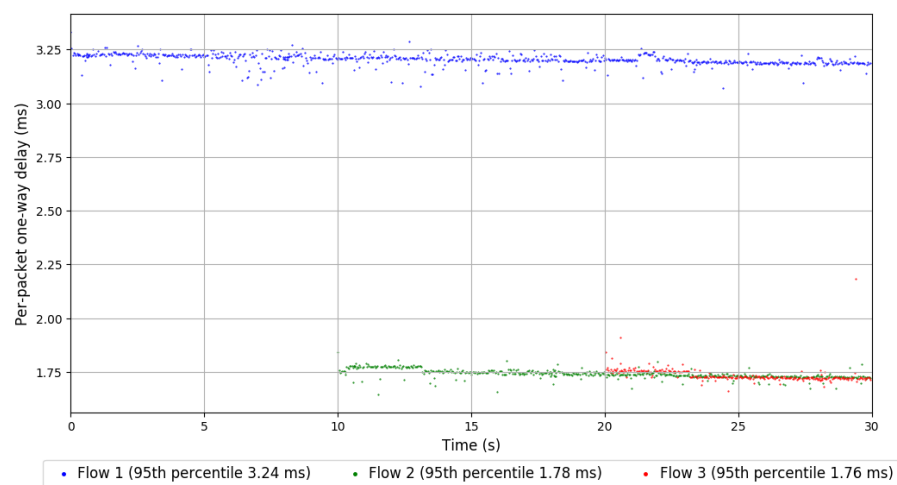
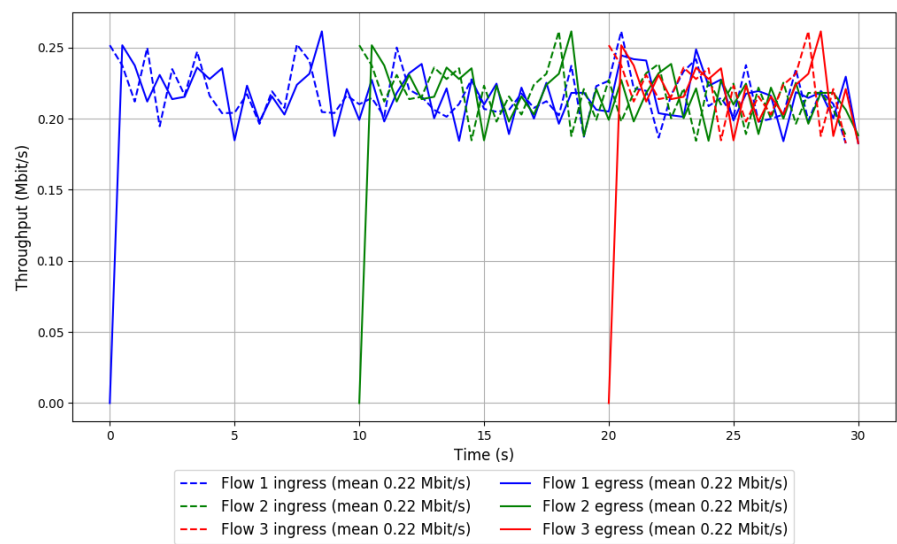


Run 3: Statistics of SReAM

Start at: 2018-09-25 09:09:31
End at: 2018-09-25 09:10:01
Local clock offset: -6.132 ms
Remote clock offset: 0.554 ms

Below is generated by plot.py at 2018-09-25 10:10:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.776 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.765 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

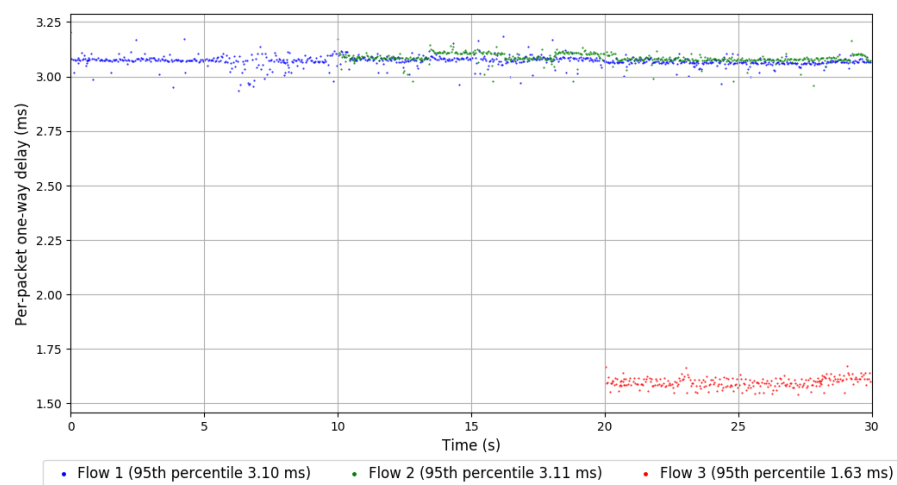
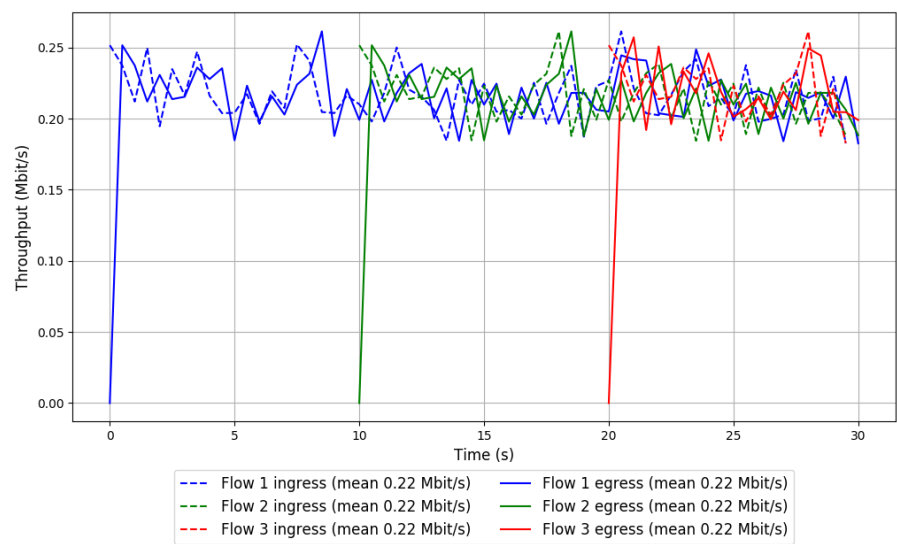


Run 4: Statistics of SReAM

Start at: 2018-09-25 09:31:16
End at: 2018-09-25 09:31:46
Local clock offset: -7.028 ms
Remote clock offset: 0.563 ms

```
# Below is generated by plot.py at 2018-09-25 10:10:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.114 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.632 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-09-25 09:52:53

End at: 2018-09-25 09:53:23

Local clock offset: -5.689 ms

Remote clock offset: 0.668 ms

Below is generated by plot.py at 2018-09-25 10:10:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.840 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.835 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.842 ms

Loss rate: 0.00%

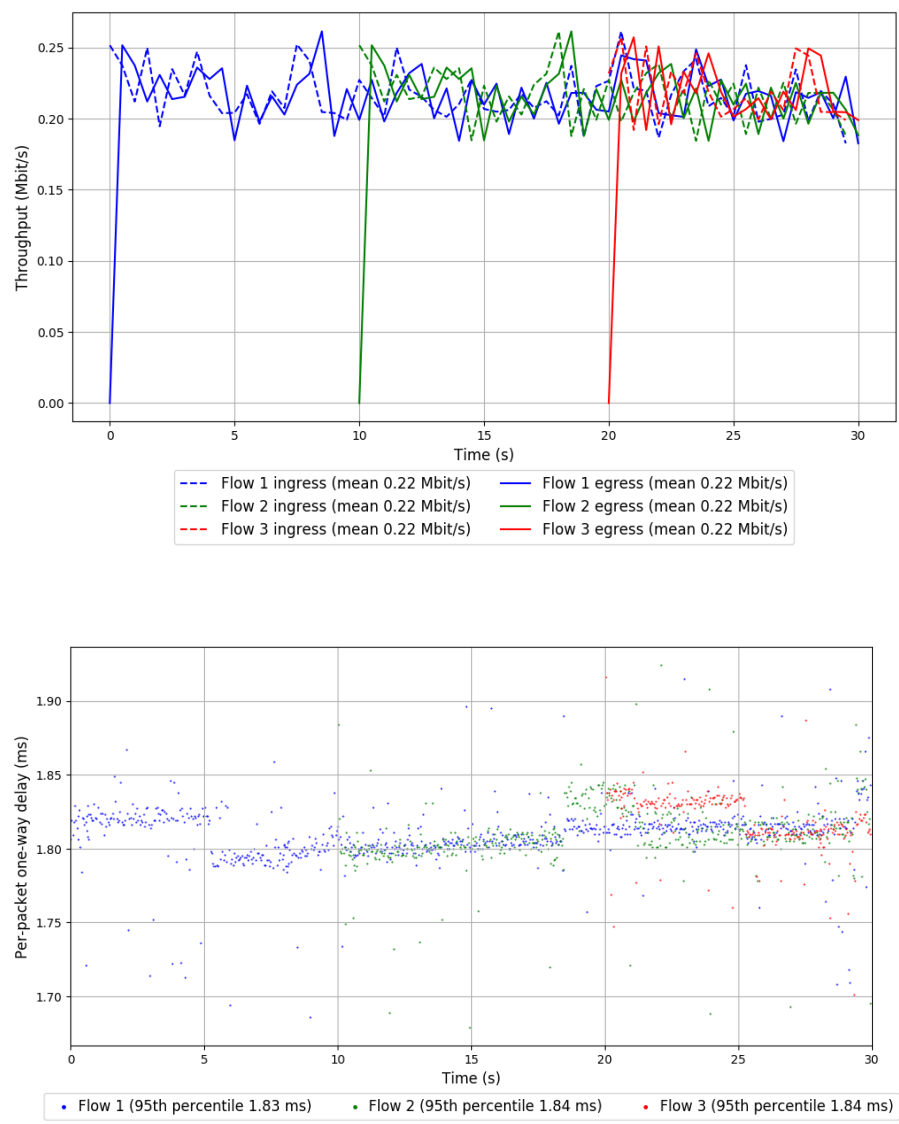
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.840 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-09-25 08:14:54

End at: 2018-09-25 08:15:24

Local clock offset: -5.191 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-09-25 10:10:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.45 Mbit/s

95th percentile per-packet one-way delay: 24.521 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.78 Mbit/s

95th percentile per-packet one-way delay: 21.440 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 26.386 ms

Loss rate: 0.00%

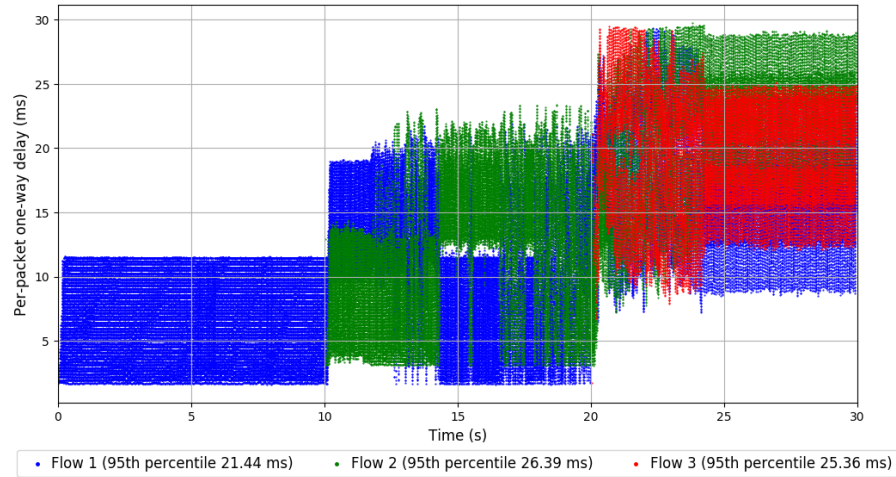
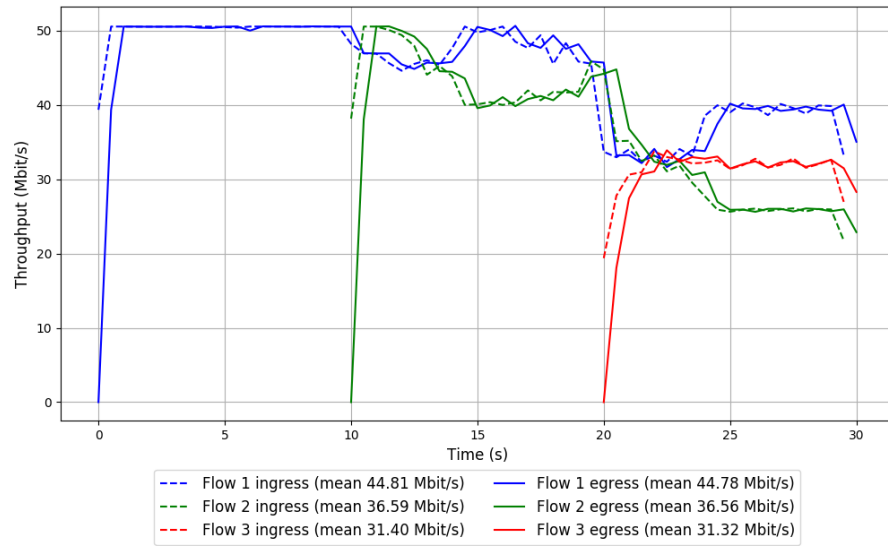
-- Flow 3:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 25.365 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

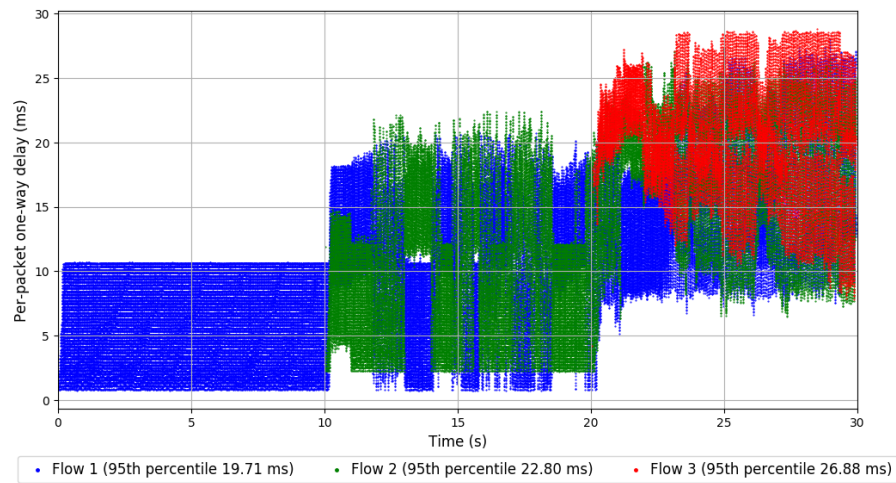
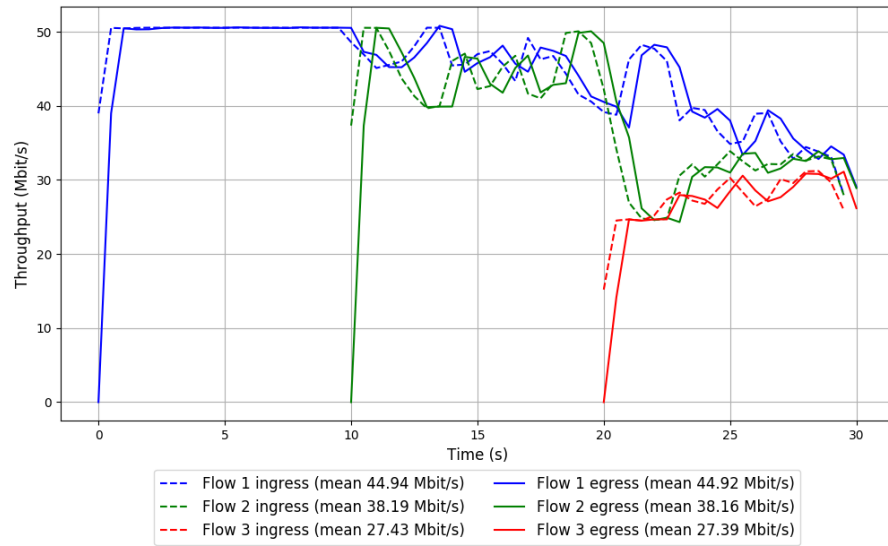


Run 2: Statistics of Sprout

Start at: 2018-09-25 08:36:34
End at: 2018-09-25 08:37:04
Local clock offset: -4.458 ms
Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-09-25 10:10:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 23.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 19.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 22.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 26.880 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

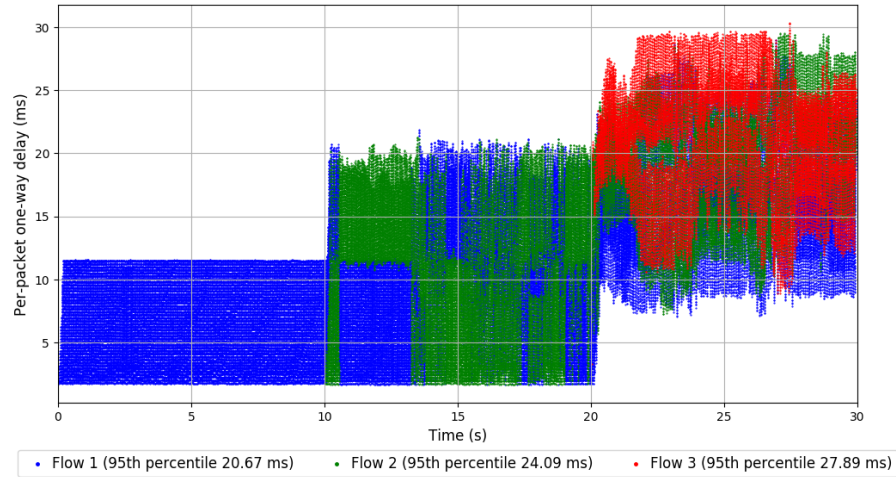
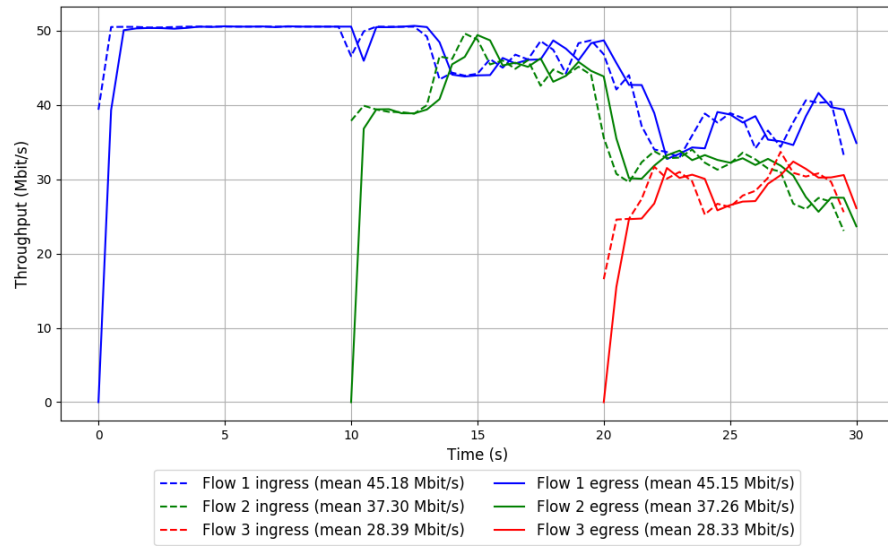


Run 3: Statistics of Sprout

Start at: 2018-09-25 08:58:08
End at: 2018-09-25 08:58:38
Local clock offset: -5.903 ms
Remote clock offset: 0.452 ms

```
# Below is generated by plot.py at 2018-09-25 10:10:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.31 Mbit/s
95th percentile per-packet one-way delay: 24.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.15 Mbit/s
95th percentile per-packet one-way delay: 20.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.26 Mbit/s
95th percentile per-packet one-way delay: 24.092 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.33 Mbit/s
95th percentile per-packet one-way delay: 27.893 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

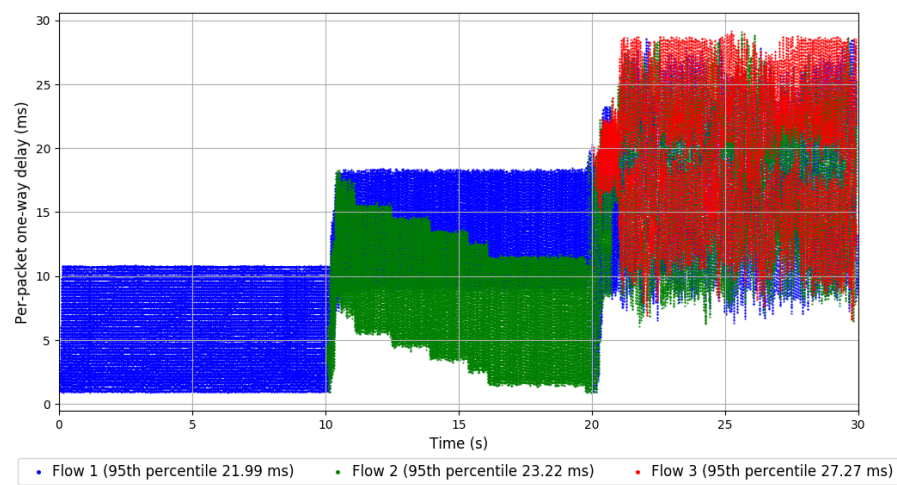
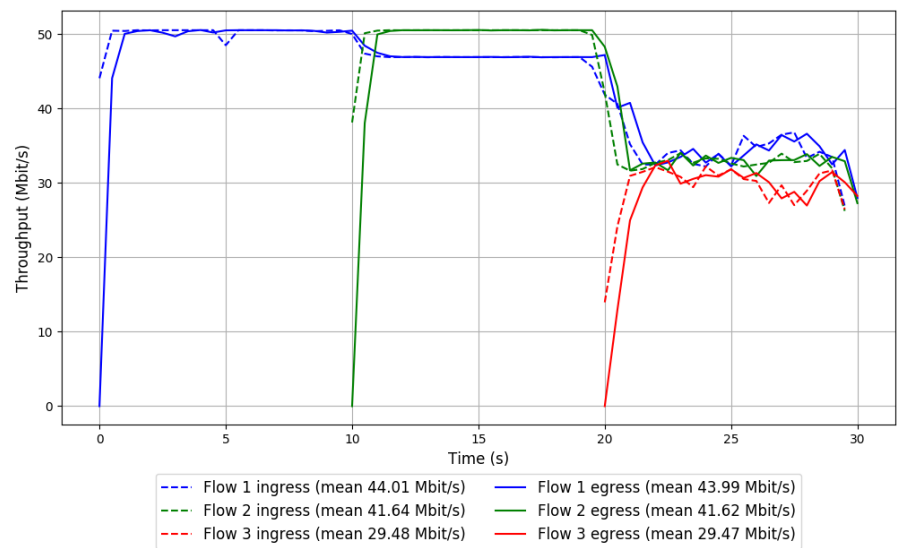


Run 4: Statistics of Sprout

Start at: 2018-09-25 09:19:43
End at: 2018-09-25 09:20:13
Local clock offset: -5.962 ms
Remote clock offset: 0.57 ms

```
# Below is generated by plot.py at 2018-09-25 10:10:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 24.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 21.988 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.62 Mbit/s
95th percentile per-packet one-way delay: 23.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 27.266 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

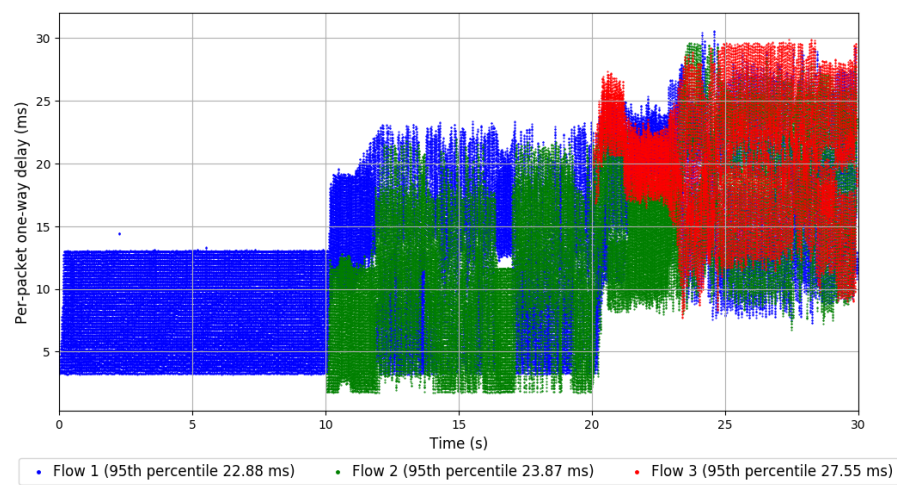
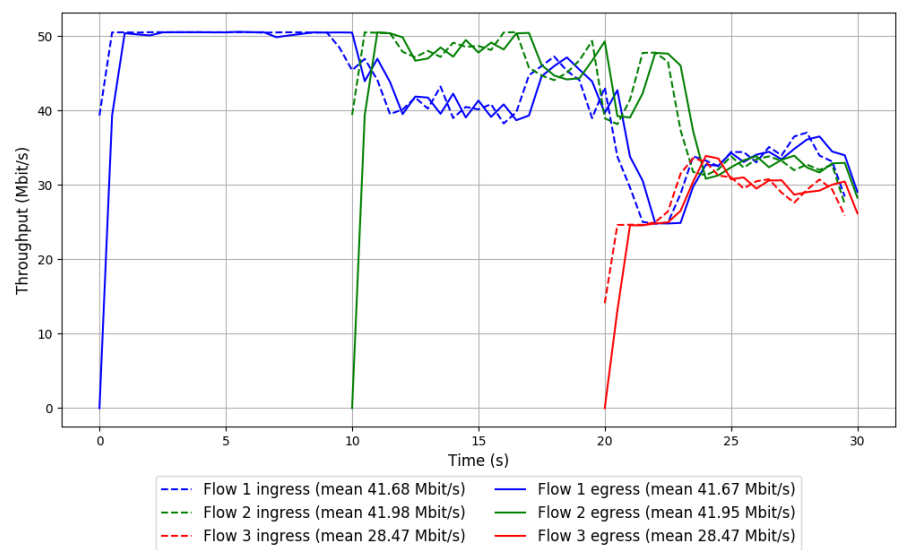


Run 5: Statistics of Sprout

Start at: 2018-09-25 09:41:28
End at: 2018-09-25 09:41:58
Local clock offset: -6.836 ms
Remote clock offset: 0.696 ms

```
# Below is generated by plot.py at 2018-09-25 10:10:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.97 Mbit/s
95th percentile per-packet one-way delay: 24.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.67 Mbit/s
95th percentile per-packet one-way delay: 22.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 23.873 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 27.551 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

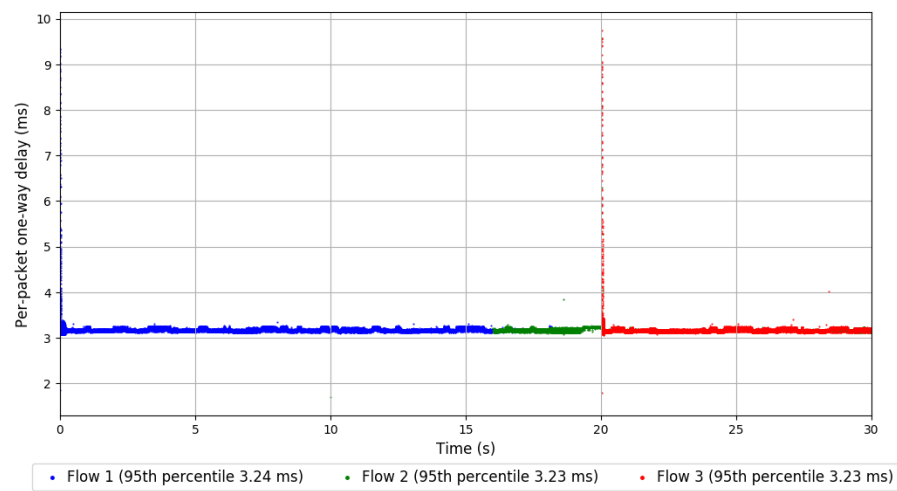
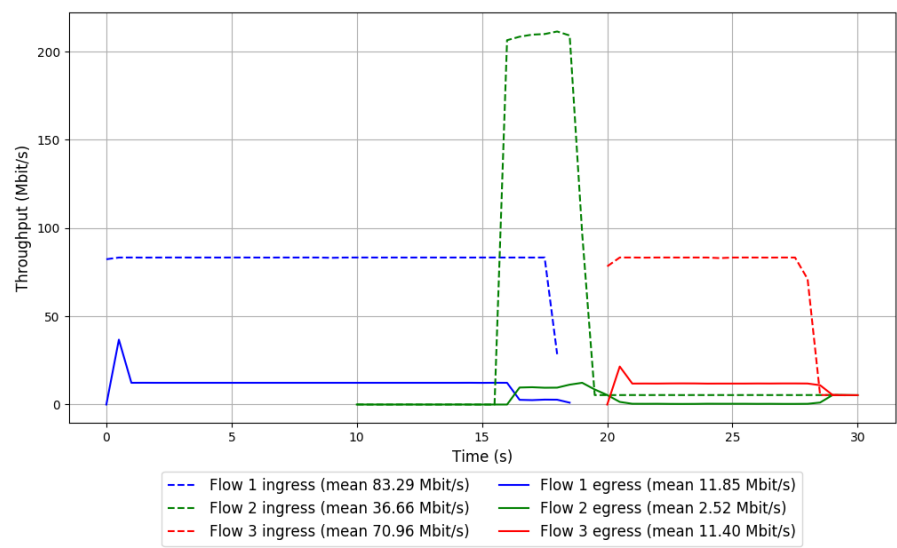


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-09-25 08:19:25
End at: 2018-09-25 08:19:55
Local clock offset: -5.196 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-09-25 10:10:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 3.238 ms
Loss rate: 87.16%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 3.240 ms
Loss rate: 85.78%
-- Flow 2:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 3.231 ms
Loss rate: 93.12%
-- Flow 3:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 3.233 ms
Loss rate: 83.93%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-09-25 08:41:05

End at: 2018-09-25 08:41:35

Local clock offset: -5.345 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-09-25 10:10:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 3.103 ms

Loss rate: 75.16%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.494 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 1.648 ms

Loss rate: 42.13%

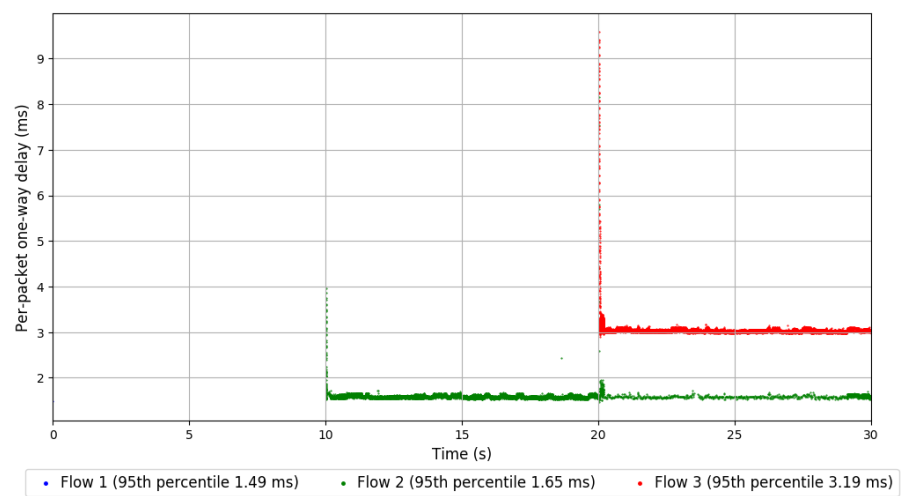
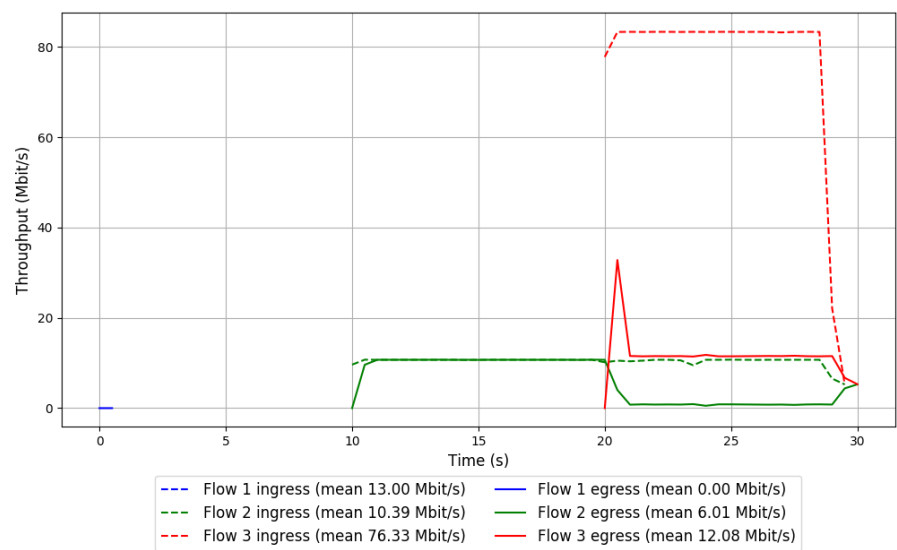
-- Flow 3:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 3.194 ms

Loss rate: 84.17%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-09-25 09:02:40

End at: 2018-09-25 09:03:10

Local clock offset: -5.162 ms

Remote clock offset: 0.39 ms

Below is generated by plot.py at 2018-09-25 10:10:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.357 ms

Loss rate: 83.86%

-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 2.357 ms

Loss rate: 83.63%

-- Flow 2:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 2.348 ms

Loss rate: 84.64%

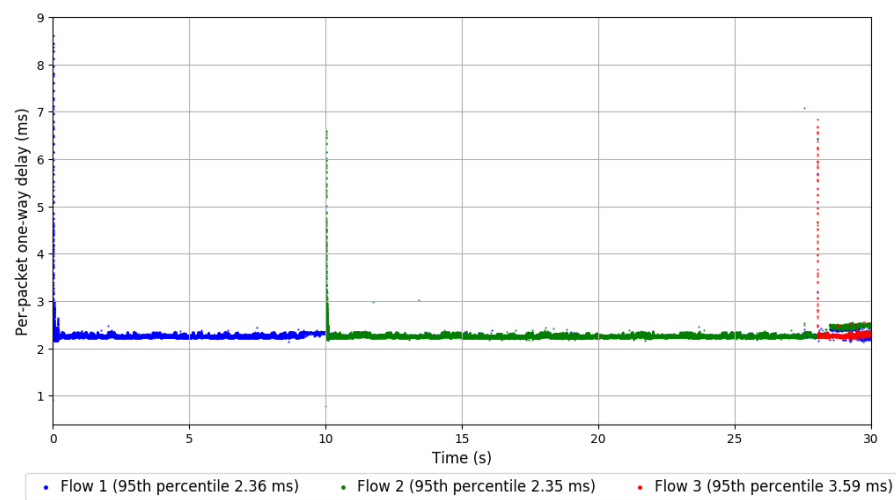
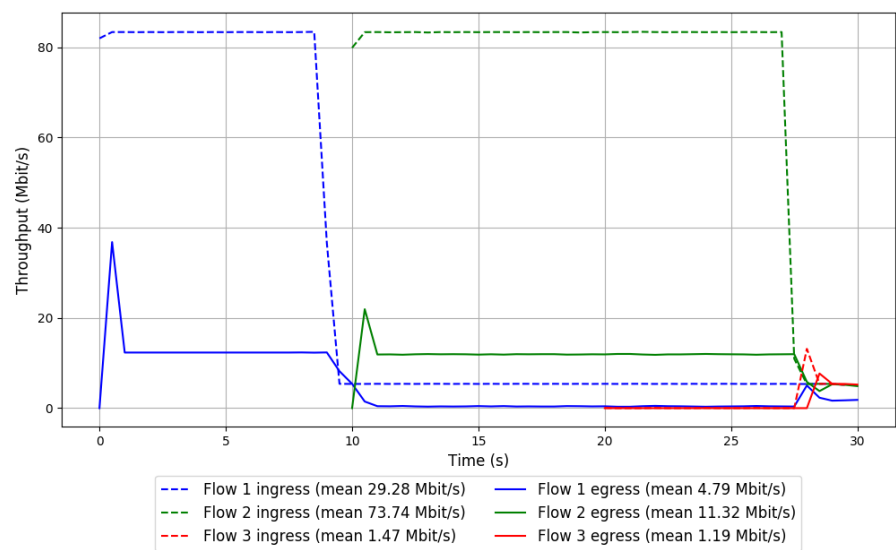
-- Flow 3:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 3.593 ms

Loss rate: 19.23%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-09-25 09:24:25

End at: 2018-09-25 09:24:55

Local clock offset: -6.834 ms

Remote clock offset: 0.59 ms

Below is generated by plot.py at 2018-09-25 10:10:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.186 ms

Loss rate: 84.37%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.794 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 3.195 ms

Loss rate: 83.68%

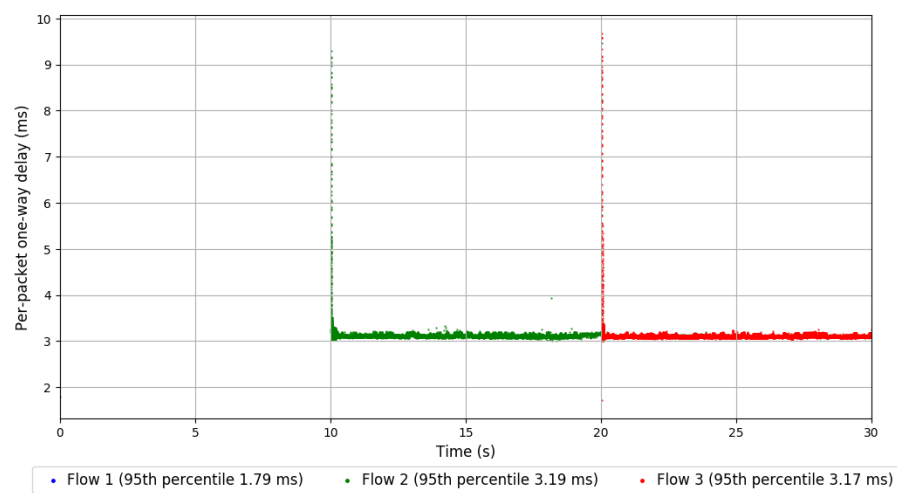
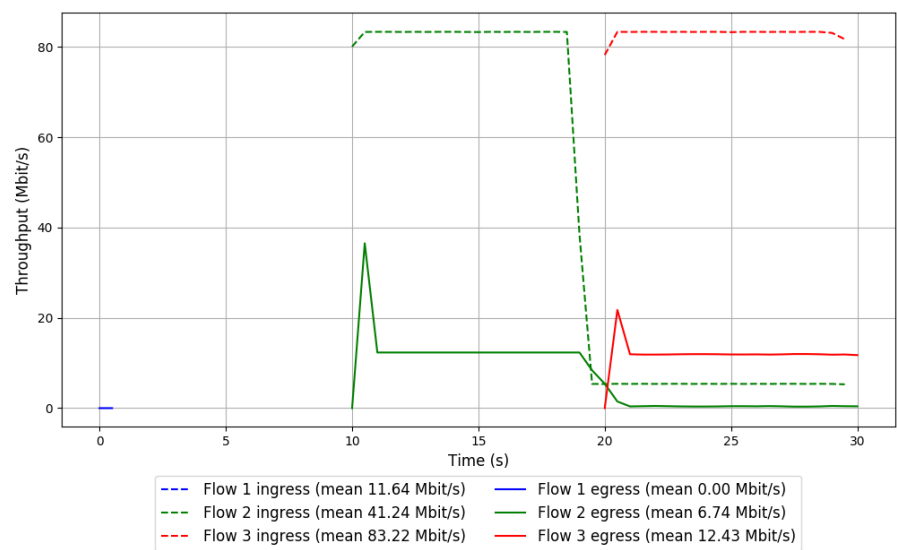
-- Flow 3:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 3.175 ms

Loss rate: 85.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-09-25 09:46:00

End at: 2018-09-25 09:46:30

Local clock offset: -5.397 ms

Remote clock offset: 0.575 ms

Below is generated by plot.py at 2018-09-25 10:10:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 92.98%

-- Flow 1:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 2.398 ms

Loss rate: 90.14%

-- Flow 2:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 2.406 ms

Loss rate: 95.40%

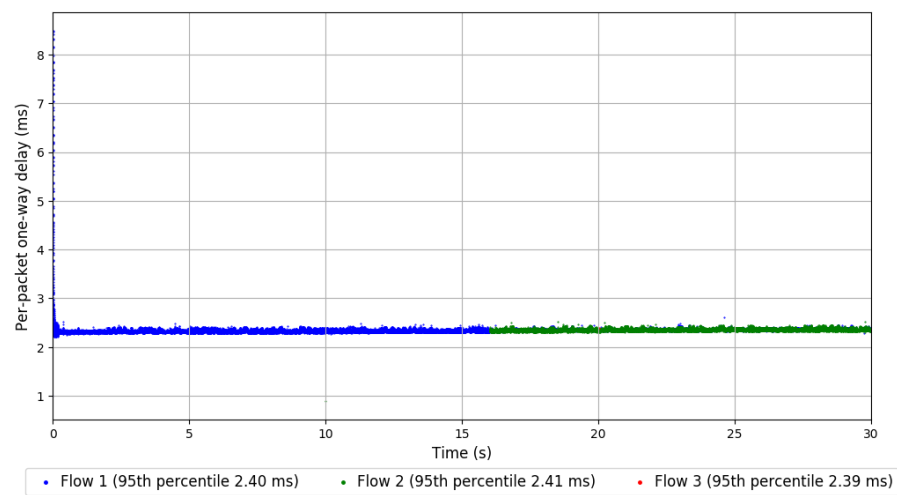
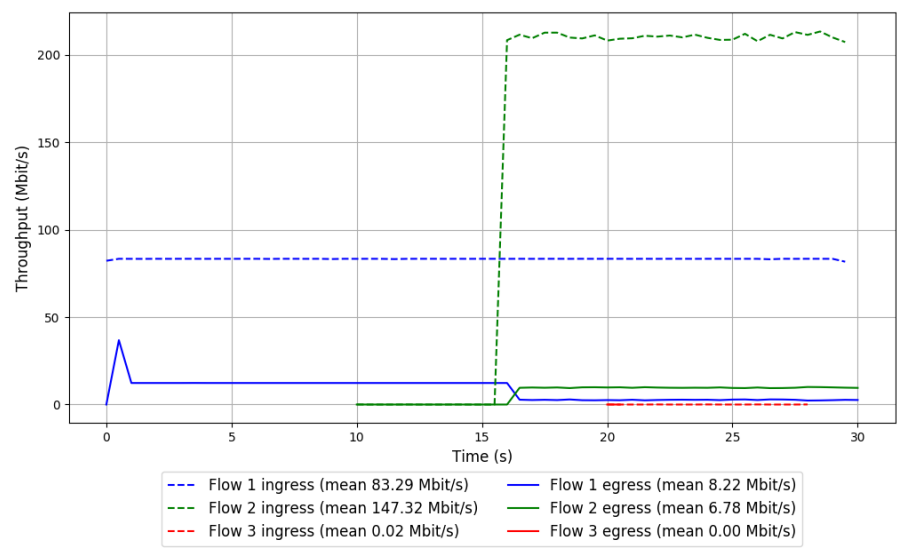
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2.391 ms

Loss rate: 99.16%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-09-25 08:20:32

End at: 2018-09-25 08:21:02

Local clock offset: -5.122 ms

Remote clock offset: 0.205 ms

Below is generated by plot.py at 2018-09-25 10:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 4.710 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.28 Mbit/s

95th percentile per-packet one-way delay: 4.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 3.664 ms

Loss rate: 0.00%

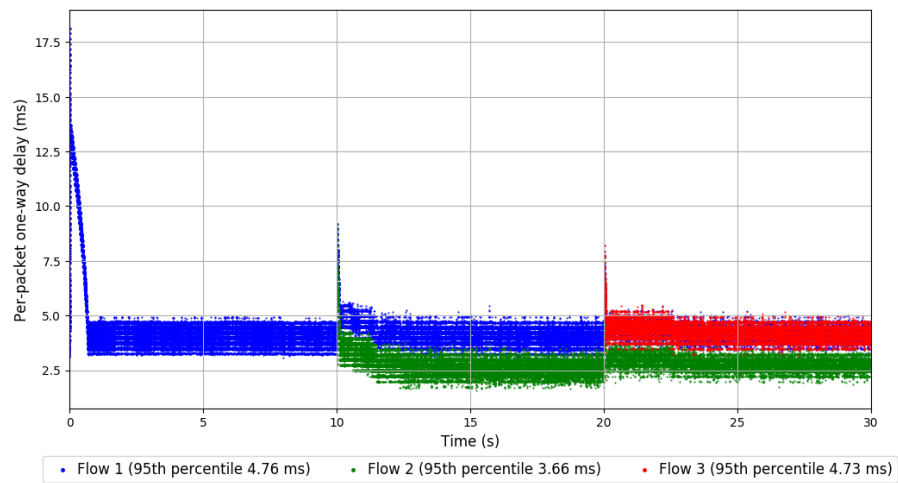
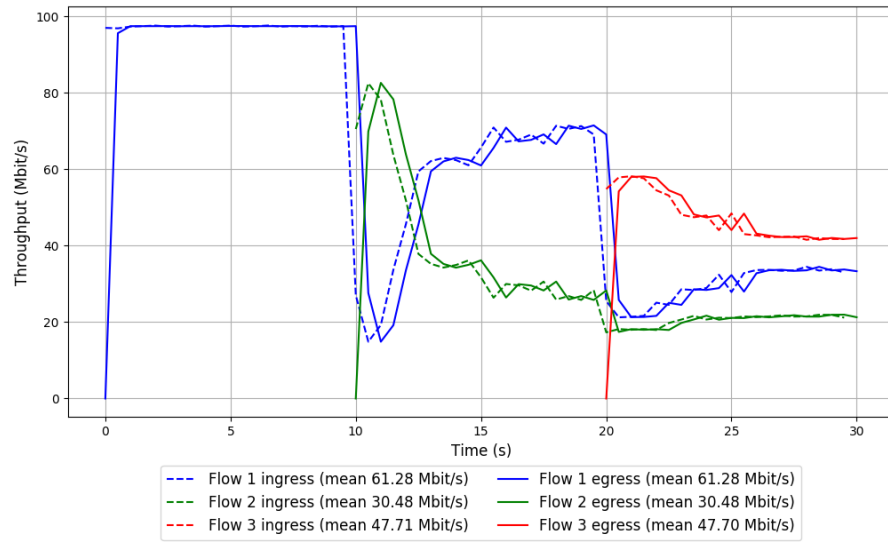
-- Flow 3:

Average throughput: 47.70 Mbit/s

95th percentile per-packet one-way delay: 4.734 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-09-25 08:42:11

End at: 2018-09-25 08:42:41

Local clock offset: -5.447 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-09-25 10:11:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 4.633 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 4.895 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 3.677 ms

Loss rate: 0.00%

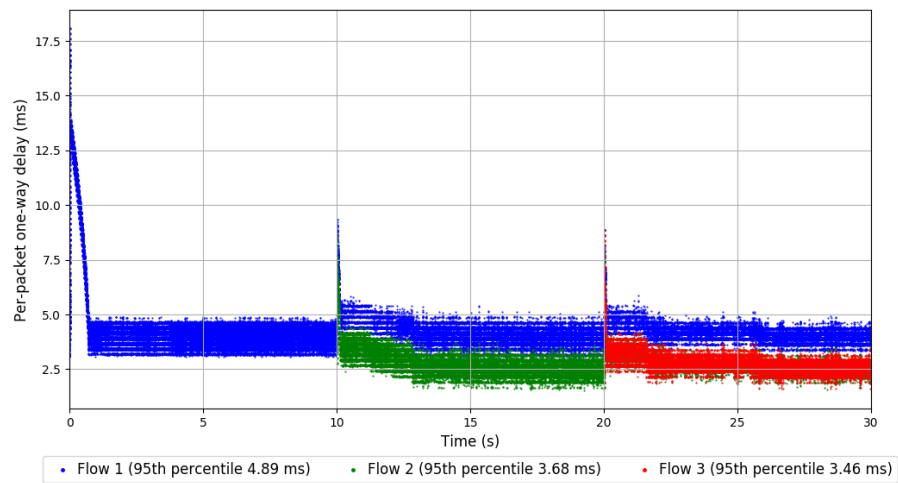
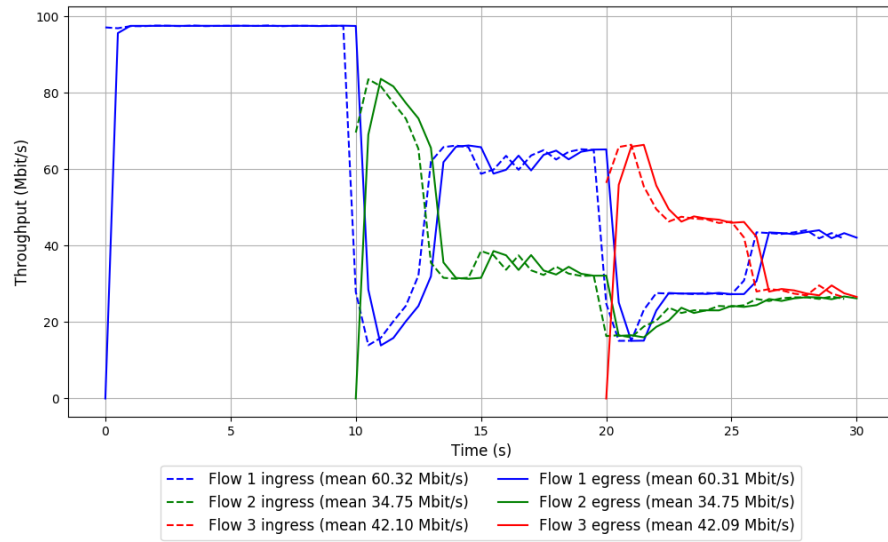
-- Flow 3:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 3.458 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-09-25 09:03:46

End at: 2018-09-25 09:04:16

Local clock offset: -5.183 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2018-09-25 10:11:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 3.565 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.99 Mbit/s

95th percentile per-packet one-way delay: 2.085 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 2.293 ms

Loss rate: 0.00%

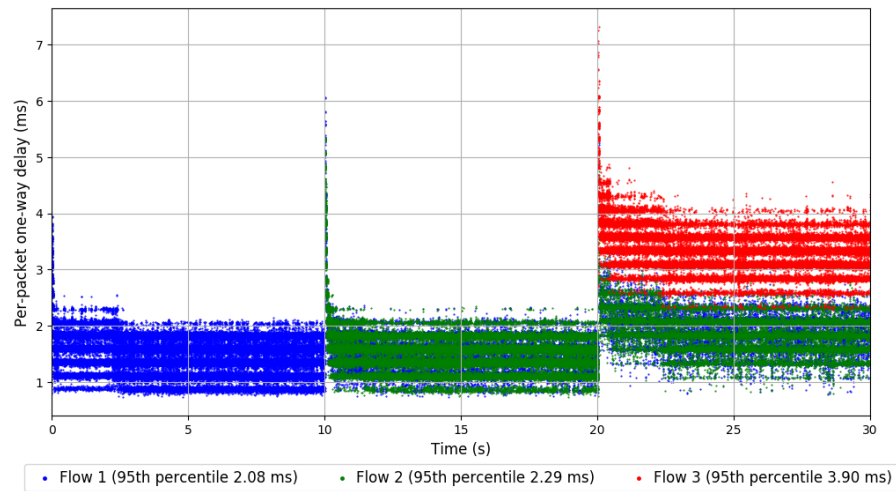
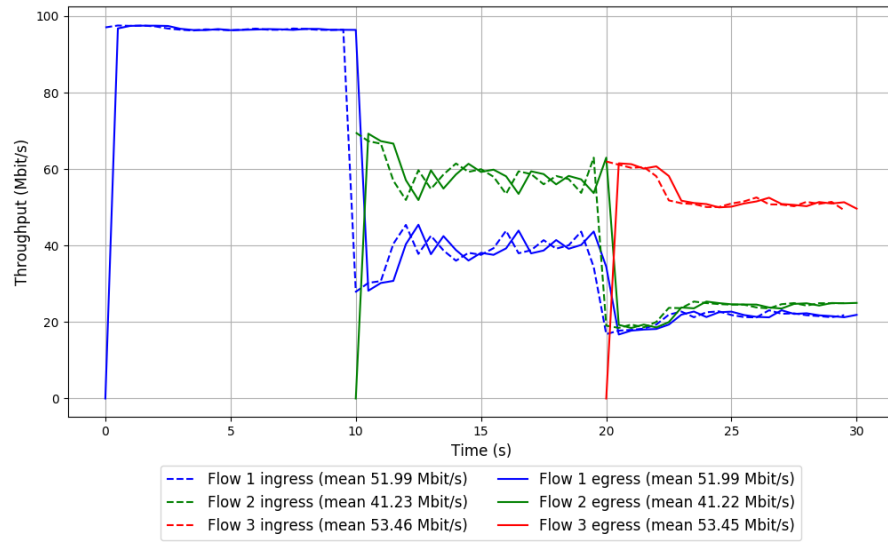
-- Flow 3:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 3.896 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-09-25 09:25:31

End at: 2018-09-25 09:26:01

Local clock offset: -6.929 ms

Remote clock offset: 0.52 ms

Below is generated by plot.py at 2018-09-25 10:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 4.221 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 2.909 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 3.136 ms

Loss rate: 0.00%

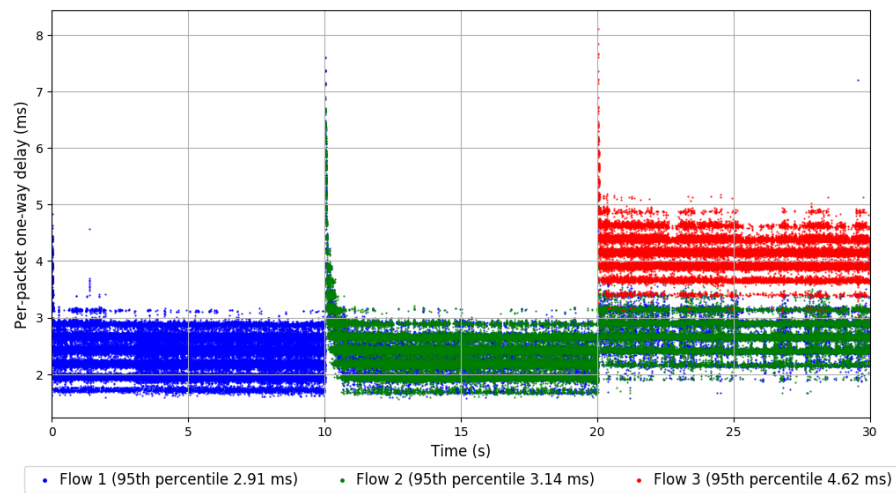
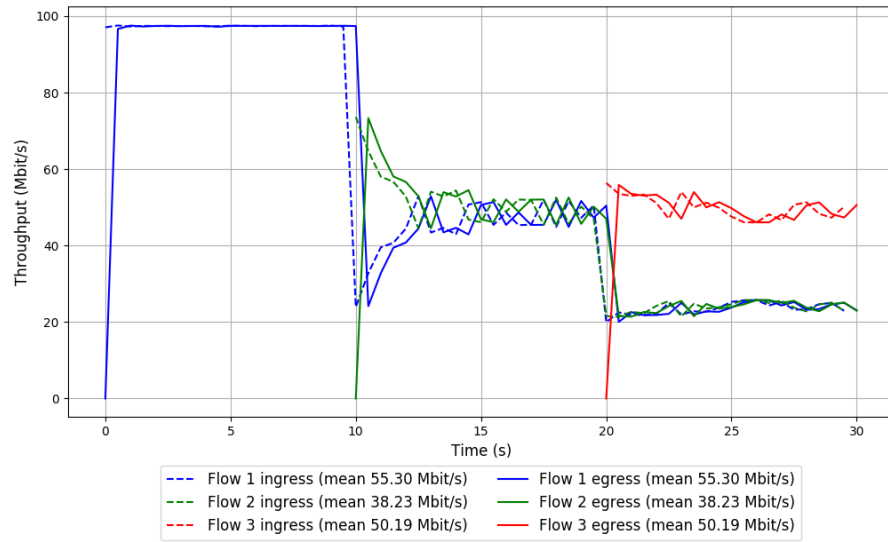
-- Flow 3:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 4.624 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-09-25 09:47:08

End at: 2018-09-25 09:47:38

Local clock offset: -6.059 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-09-25 10:11:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 5.231 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 5.504 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 5.062 ms

Loss rate: 0.00%

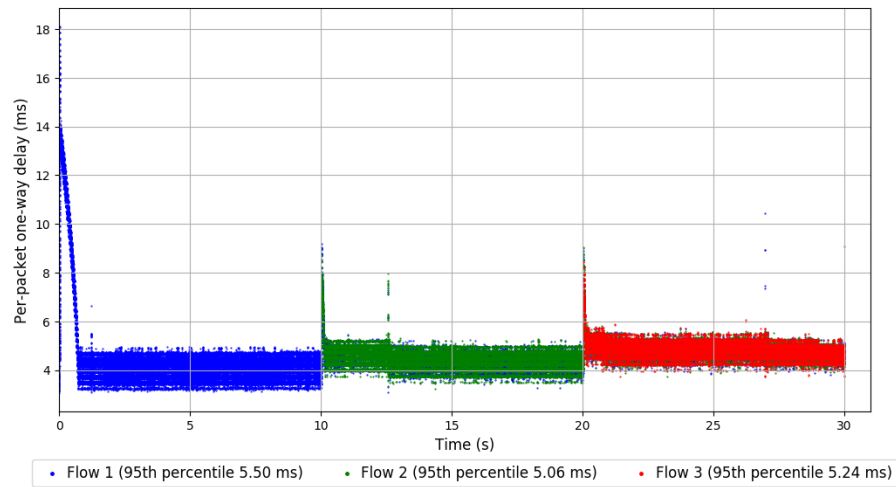
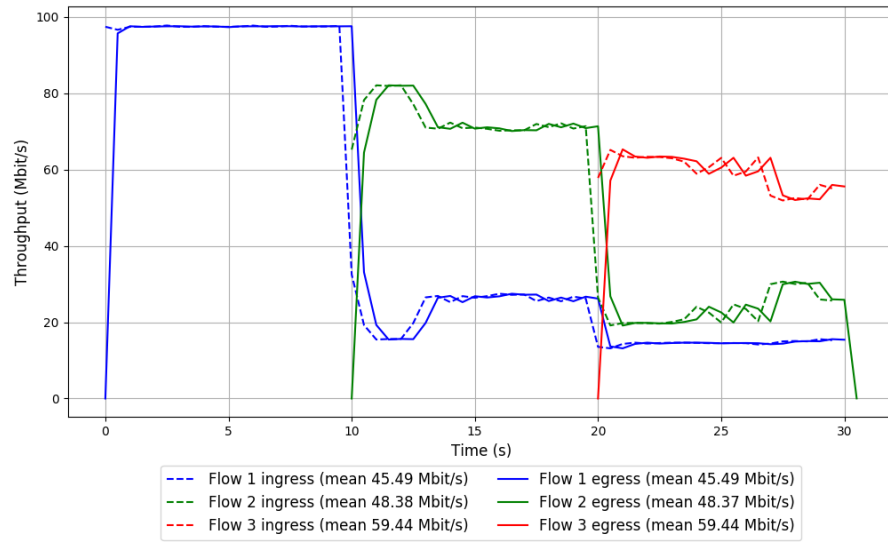
-- Flow 3:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 5.242 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-09-25 08:31:56

End at: 2018-09-25 08:32:26

Local clock offset: -4.433 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-09-25 10:11:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.44 Mbit/s

95th percentile per-packet one-way delay: 17.761 ms

Loss rate: 4.09%

-- Flow 1:

Average throughput: 36.69 Mbit/s

95th percentile per-packet one-way delay: 7.522 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 17.086 ms

Loss rate: 4.38%

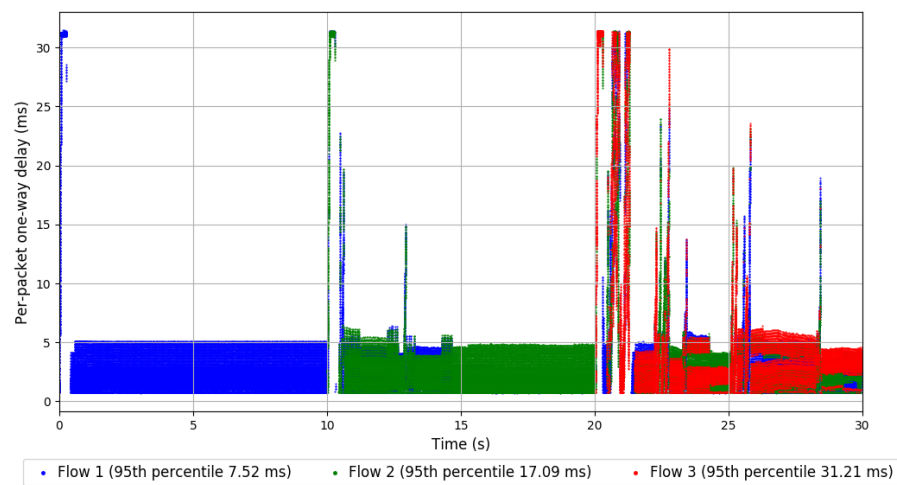
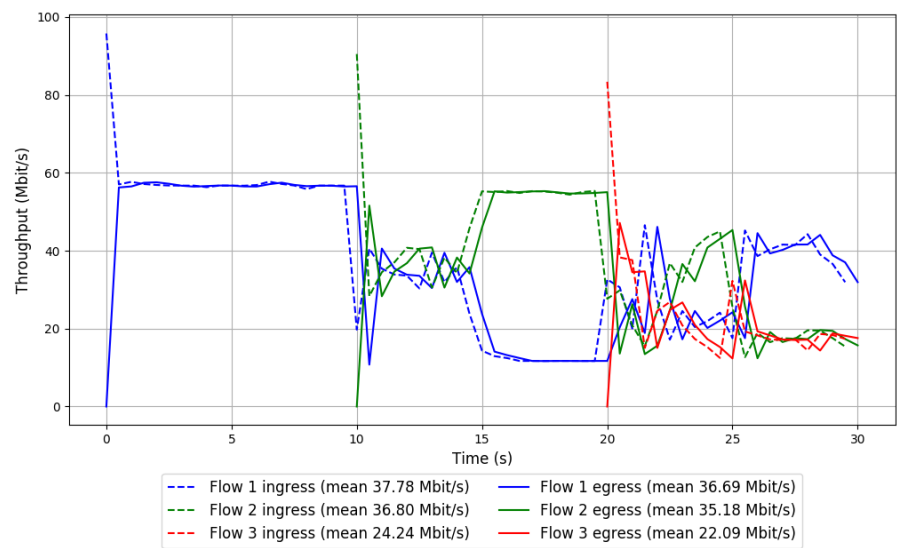
-- Flow 3:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 31.208 ms

Loss rate: 8.87%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-09-25 08:53:30

End at: 2018-09-25 08:54:00

Local clock offset: -4.979 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-09-25 10:11:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 21.346 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 15.323 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 21.456 ms

Loss rate: 3.58%

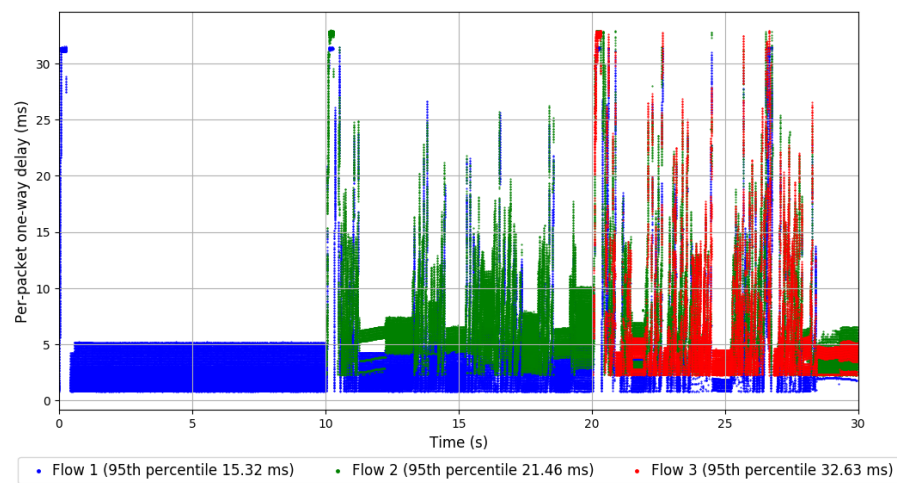
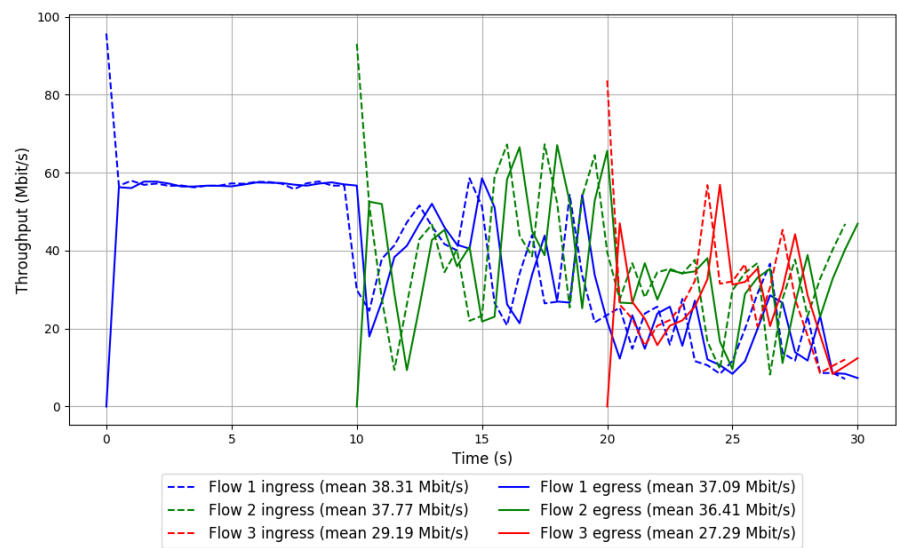
-- Flow 3:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 32.628 ms

Loss rate: 6.49%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-09-25 09:15:06

End at: 2018-09-25 09:15:36

Local clock offset: -6.431 ms

Remote clock offset: 0.547 ms

Below is generated by plot.py at 2018-09-25 10:11:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 23.448 ms

Loss rate: 4.09%

-- Flow 1:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 14.458 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 14.68 Mbit/s

95th percentile per-packet one-way delay: 31.886 ms

Loss rate: 7.20%

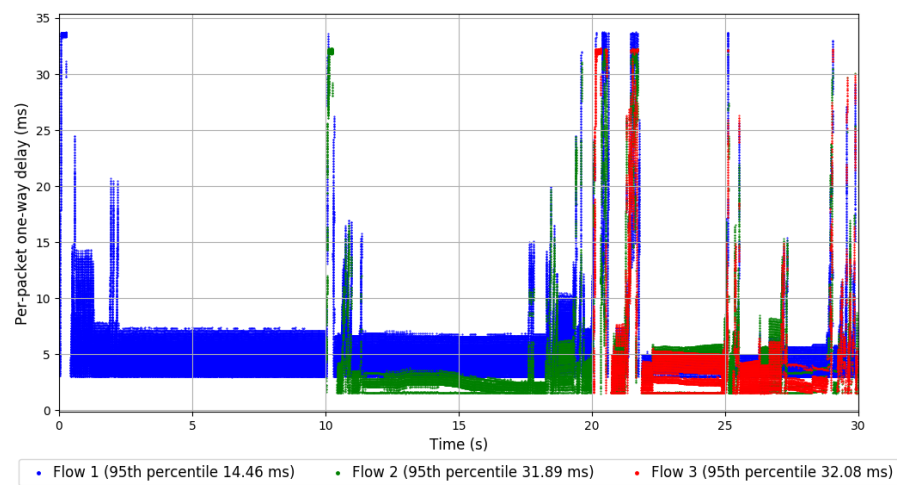
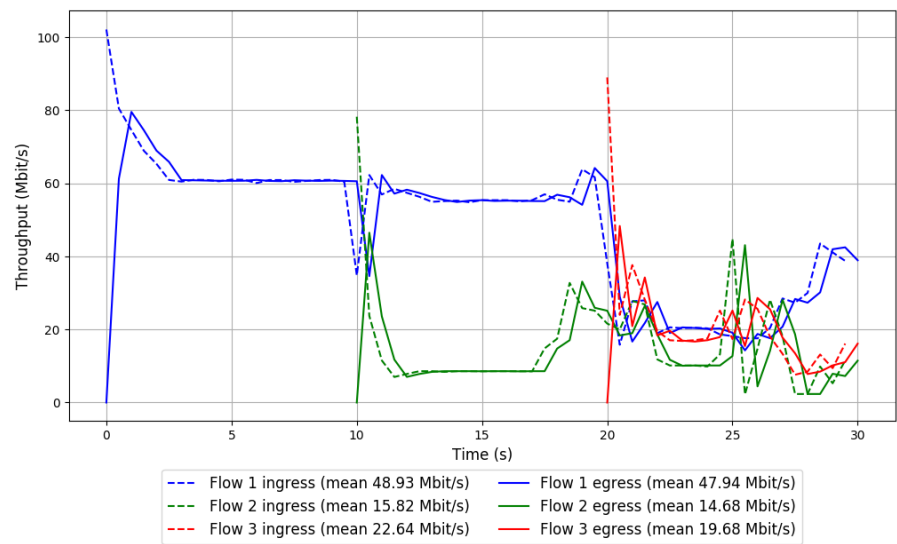
-- Flow 3:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 32.075 ms

Loss rate: 13.25%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-09-25 09:36:51

End at: 2018-09-25 09:37:21

Local clock offset: -7.196 ms

Remote clock offset: 0.647 ms

Below is generated by plot.py at 2018-09-25 10:12:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.89 Mbit/s

95th percentile per-packet one-way delay: 22.851 ms

Loss rate: 4.46%

-- Flow 1:

Average throughput: 37.87 Mbit/s

95th percentile per-packet one-way delay: 17.938 ms

Loss rate: 2.93%

-- Flow 2:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 26.286 ms

Loss rate: 5.57%

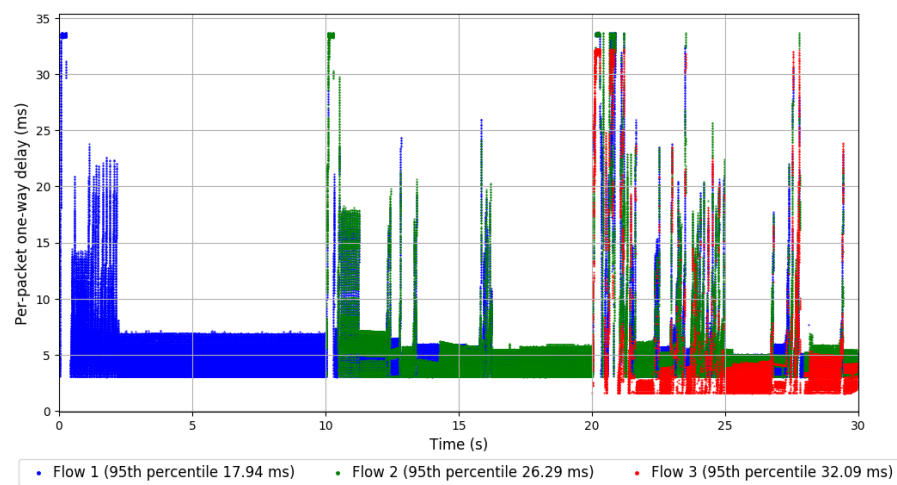
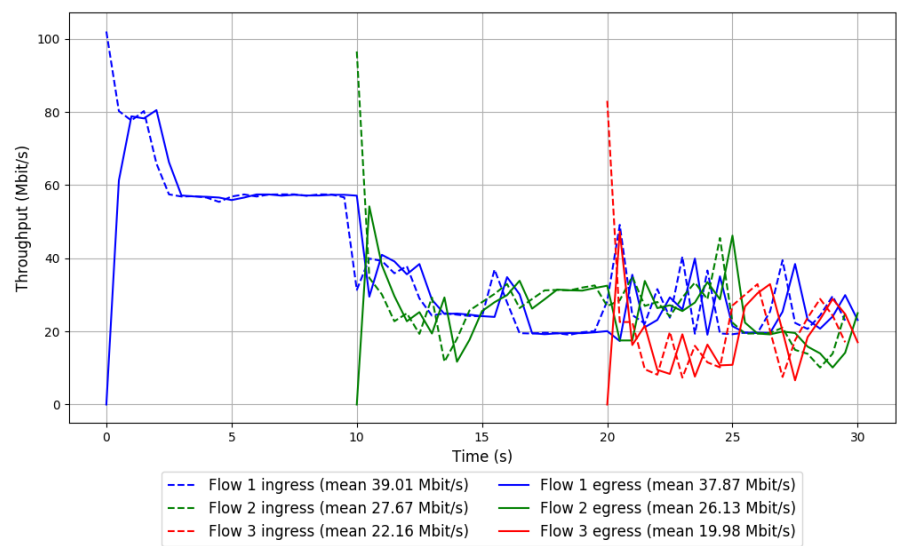
-- Flow 3:

Average throughput: 19.98 Mbit/s

95th percentile per-packet one-way delay: 32.087 ms

Loss rate: 9.82%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-09-25 09:58:28

End at: 2018-09-25 09:58:58

Local clock offset: -4.66 ms

Remote clock offset: 0.701 ms

Below is generated by plot.py at 2018-09-25 10:12:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 30.923 ms

Loss rate: 6.59%

-- Flow 1:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 19.777 ms

Loss rate: 3.27%

-- Flow 2:

Average throughput: 19.98 Mbit/s

95th percentile per-packet one-way delay: 31.412 ms

Loss rate: 10.64%

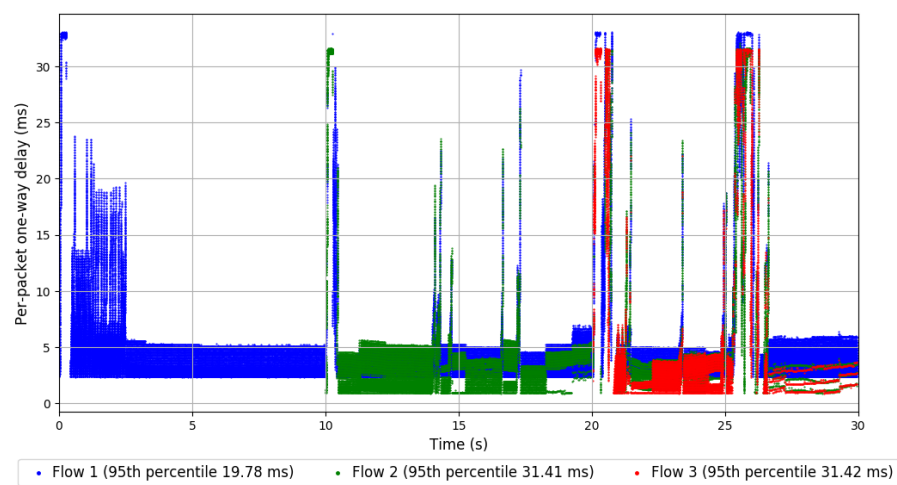
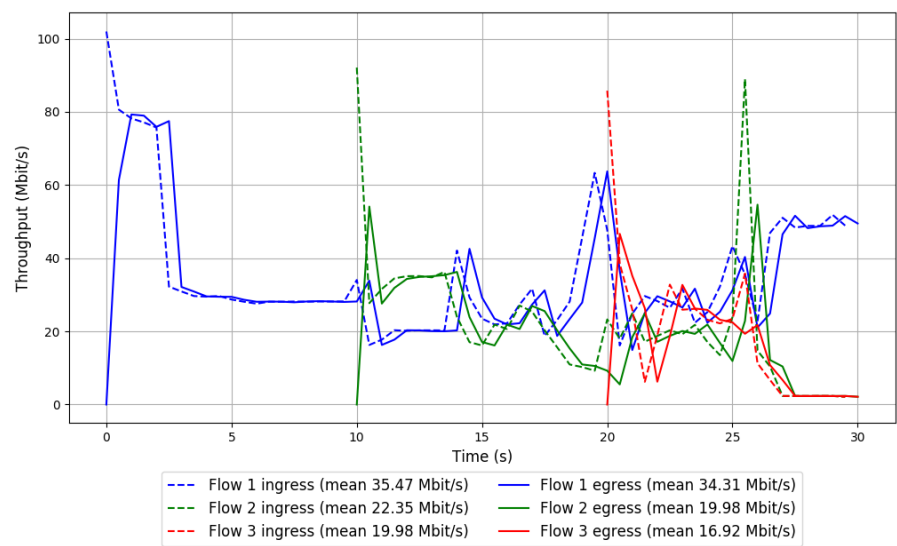
-- Flow 3:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 31.421 ms

Loss rate: 15.31%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-09-25 08:23:58

End at: 2018-09-25 08:24:28

Local clock offset: -5.134 ms

Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-09-25 10:12:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.63 Mbit/s

95th percentile per-packet one-way delay: 2.579 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 2.358 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.44 Mbit/s

95th percentile per-packet one-way delay: 2.737 ms

Loss rate: 0.00%

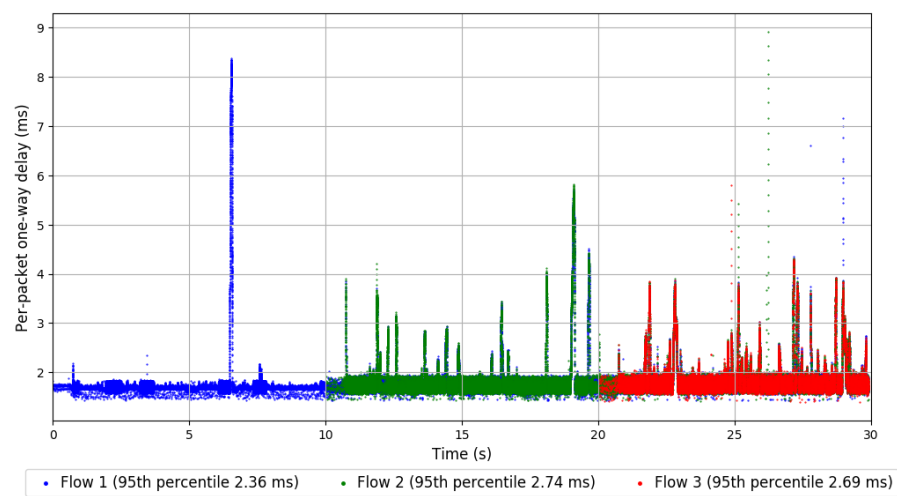
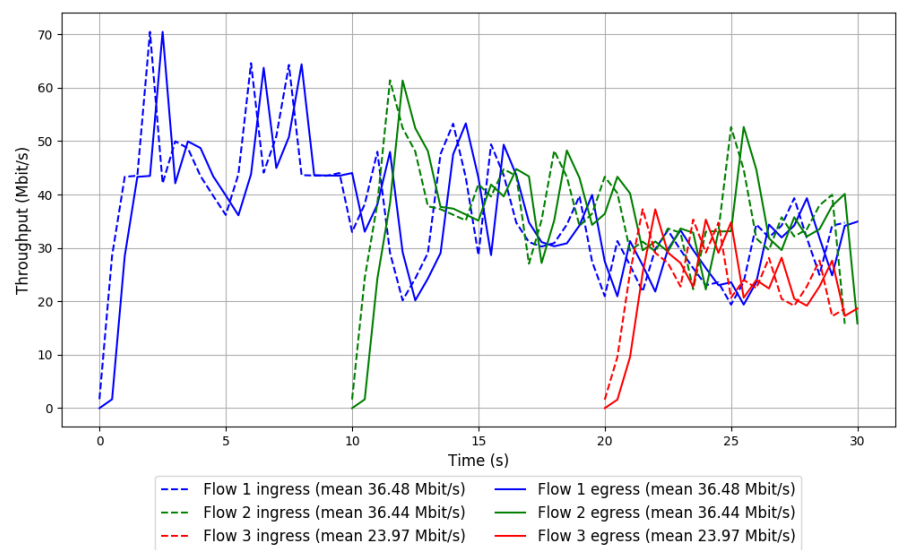
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 2.693 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-09-25 08:45:37

End at: 2018-09-25 08:46:07

Local clock offset: -4.751 ms

Remote clock offset: 0.314 ms

Below is generated by plot.py at 2018-09-25 10:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 2.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.84 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 3.068 ms

Loss rate: 0.00%

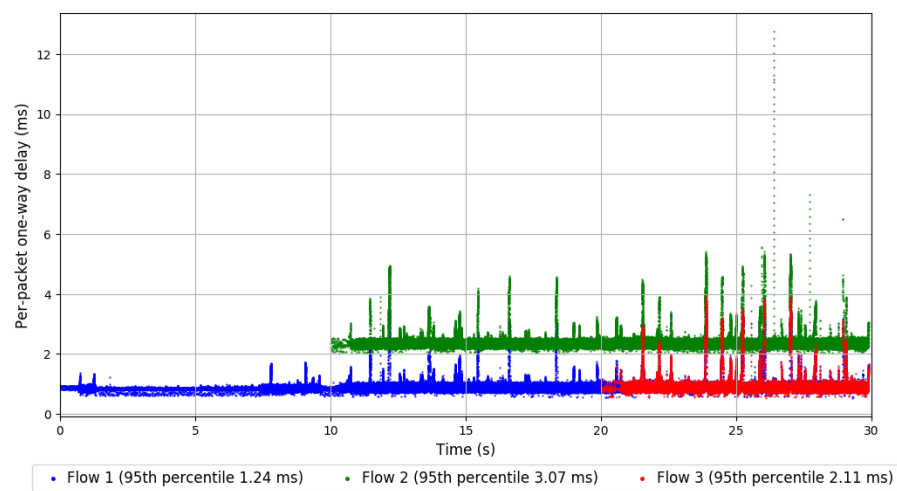
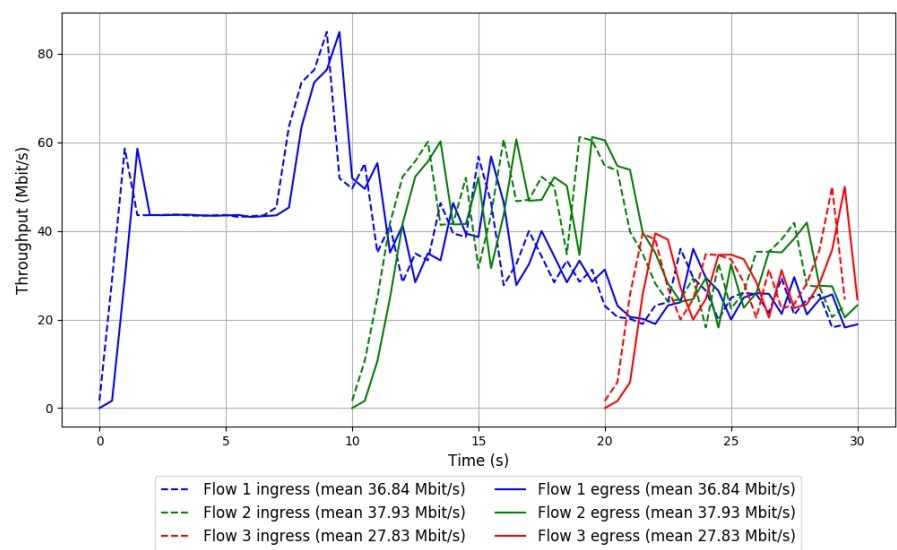
-- Flow 3:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 2.109 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-09-25 09:07:12

End at: 2018-09-25 09:07:42

Local clock offset: -5.239 ms

Remote clock offset: 0.525 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 2.652 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 1.739 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 3.344 ms

Loss rate: 0.00%

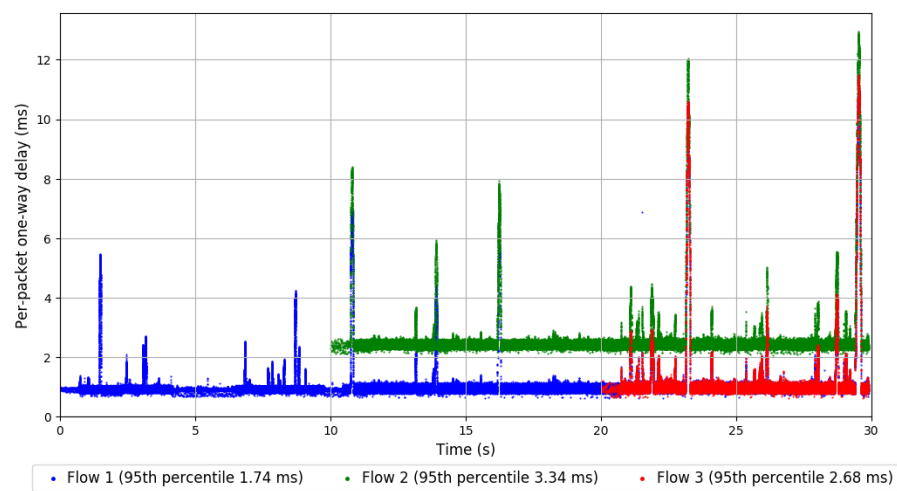
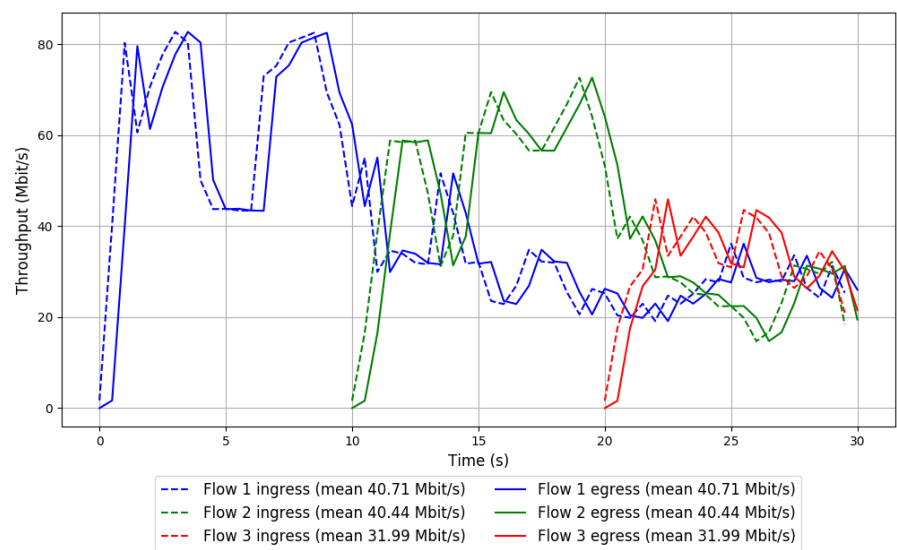
-- Flow 3:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 2.680 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-09-25 09:28:57

End at: 2018-09-25 09:29:27

Local clock offset: -6.197 ms

Remote clock offset: 0.582 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 2.783 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 3.171 ms

Loss rate: 0.00%

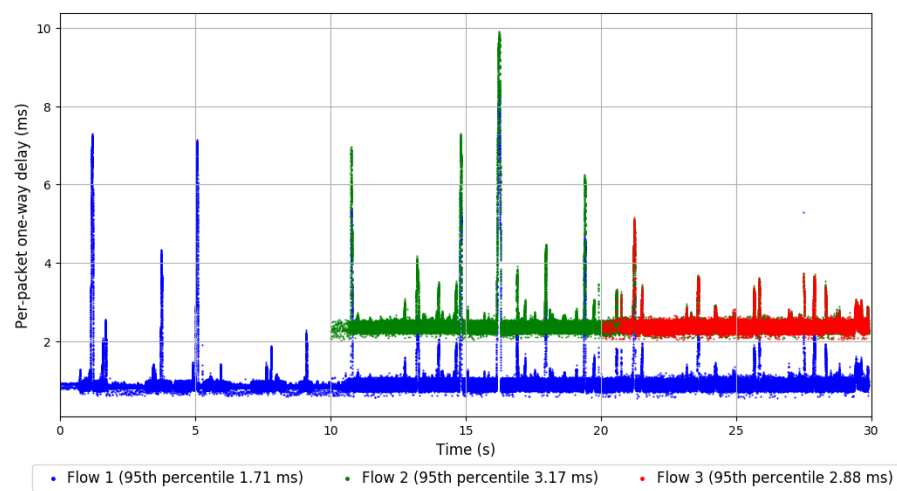
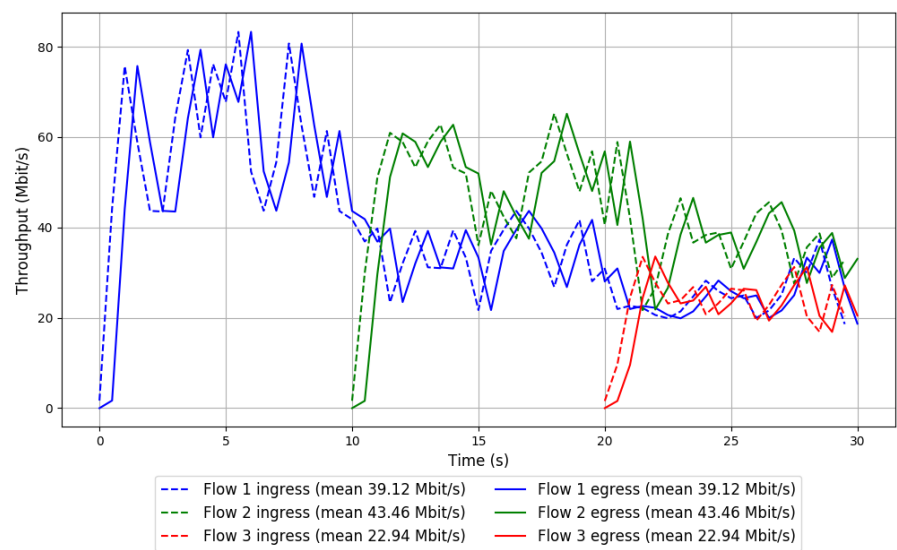
-- Flow 3:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 2.880 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-09-25 09:50:34

End at: 2018-09-25 09:51:04

Local clock offset: -5.797 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 2.968 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 2.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 3.393 ms

Loss rate: 0.00%

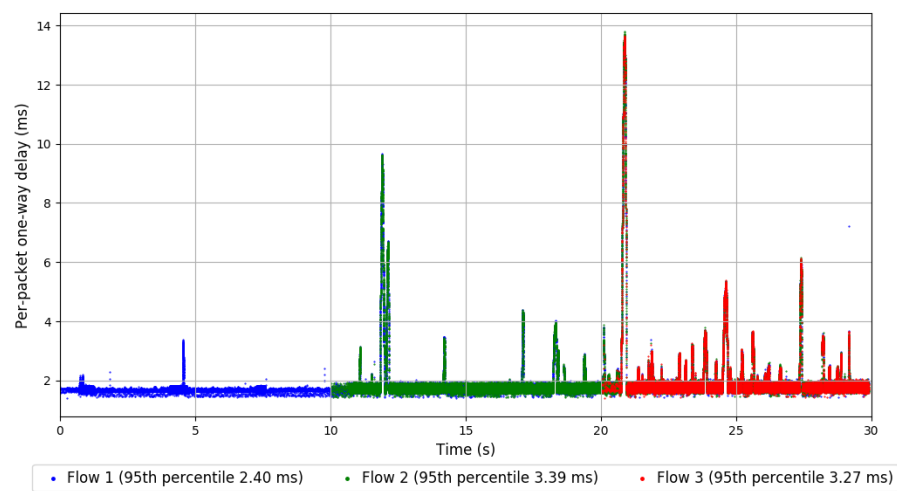
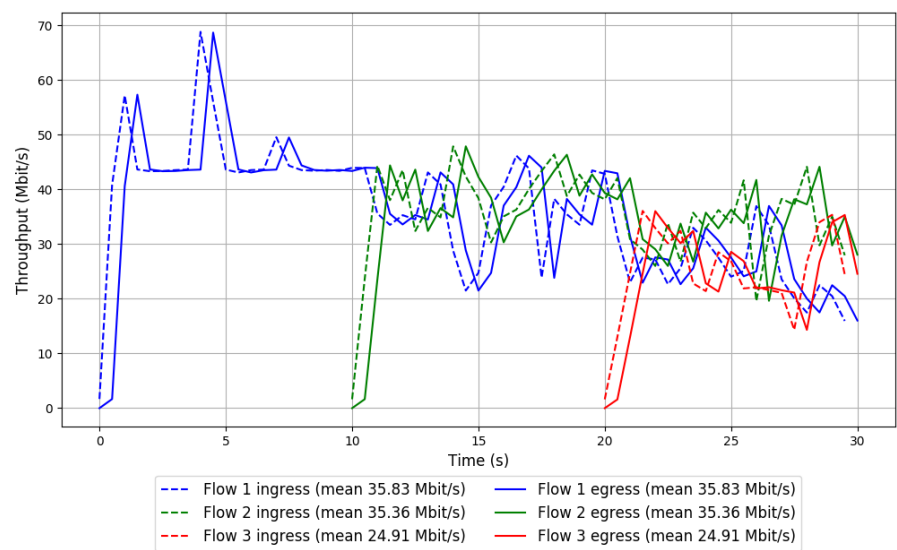
-- Flow 3:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 3.265 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-09-25 08:29:41

End at: 2018-09-25 08:30:11

Local clock offset: -4.403 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 5.663 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 4.835 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 6.761 ms

Loss rate: 0.00%

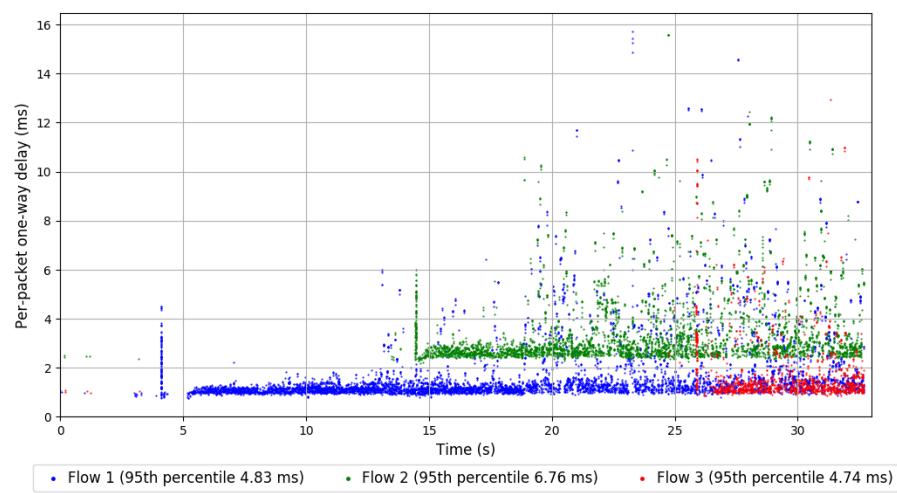
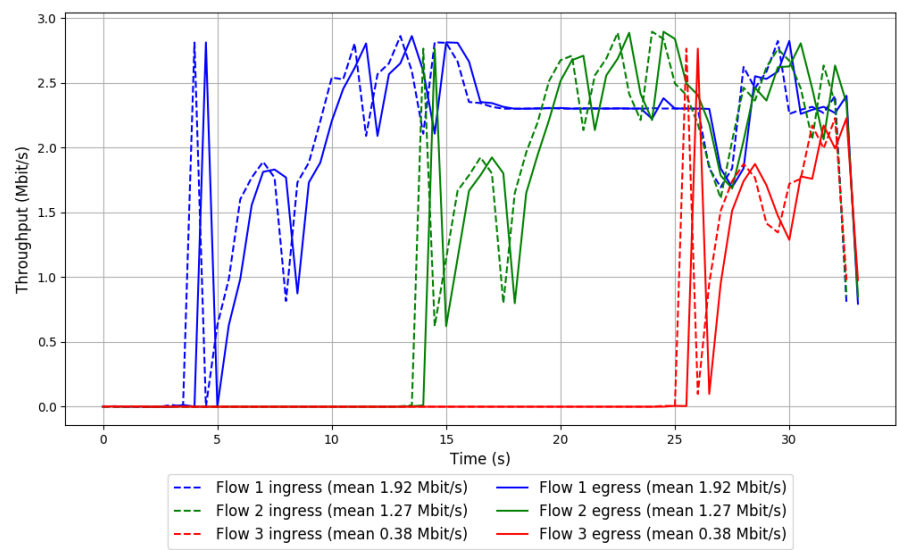
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 4.739 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-09-25 08:51:16

End at: 2018-09-25 08:51:46

Local clock offset: -4.907 ms

Remote clock offset: 0.322 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 6.198 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 6.705 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 4.667 ms

Loss rate: 0.03%

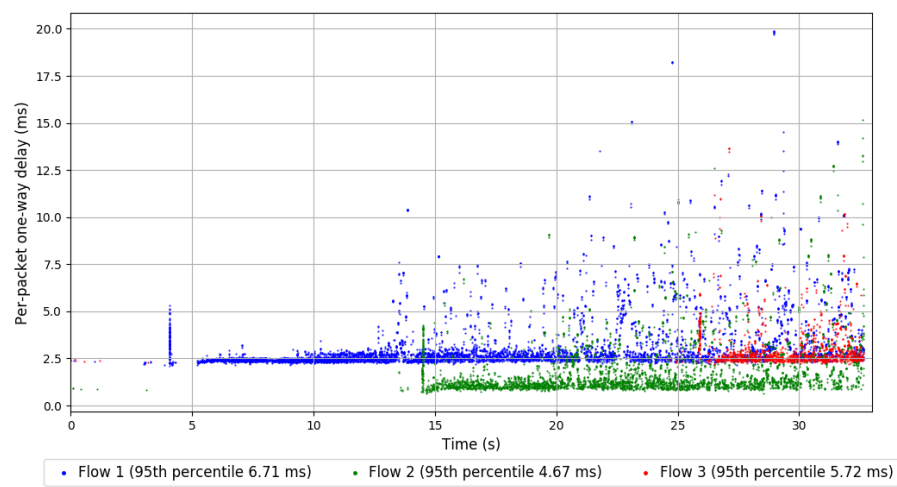
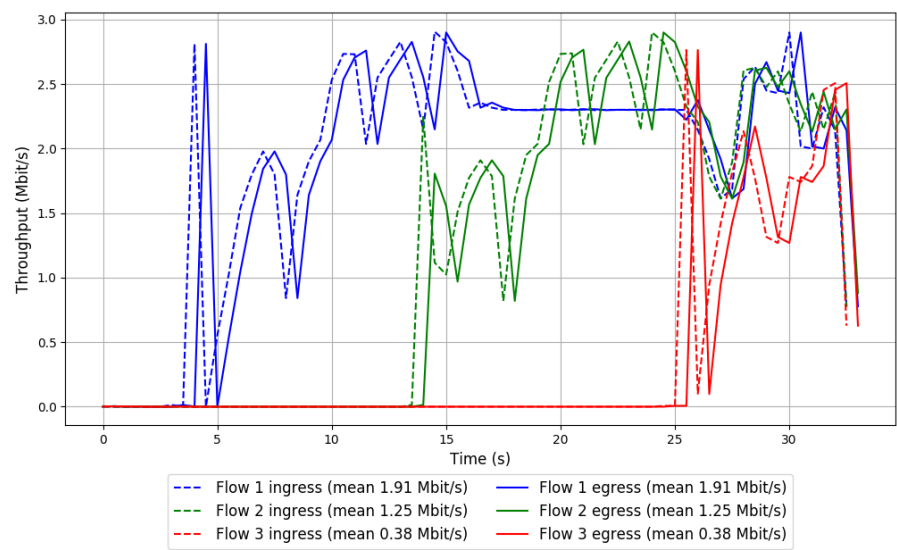
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 5.725 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-09-25 09:12:52

End at: 2018-09-25 09:13:22

Local clock offset: -5.61 ms

Remote clock offset: 0.475 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 5.751 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 6.283 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 4.949 ms

Loss rate: 0.00%

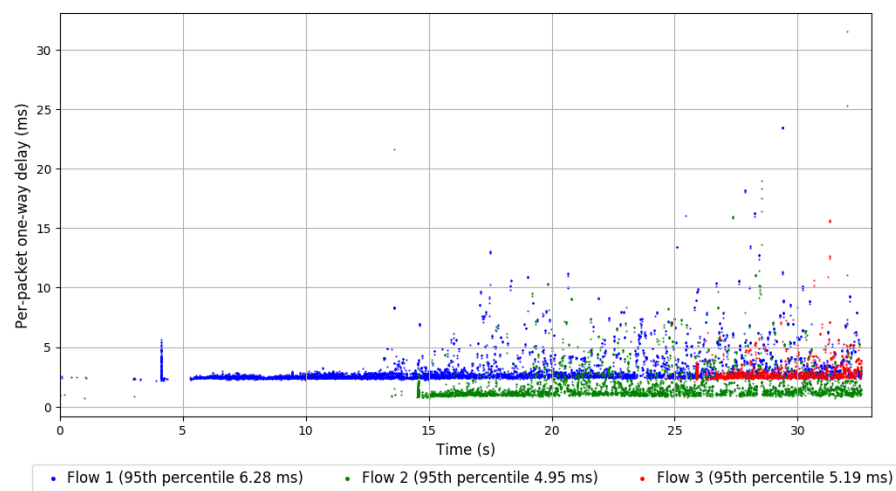
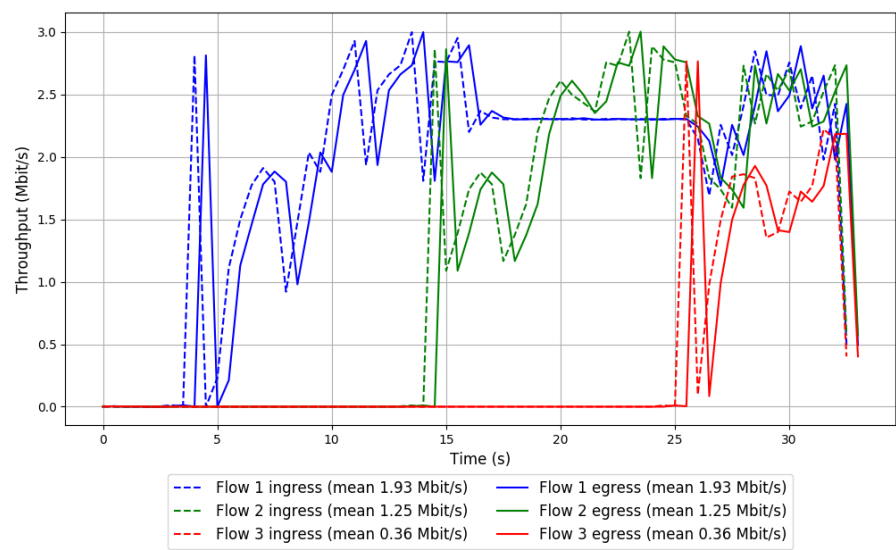
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 5.188 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-09-25 09:34:37

End at: 2018-09-25 09:35:07

Local clock offset: -6.429 ms

Remote clock offset: 0.589 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 5.992 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 5.904 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 5.910 ms

Loss rate: 0.00%

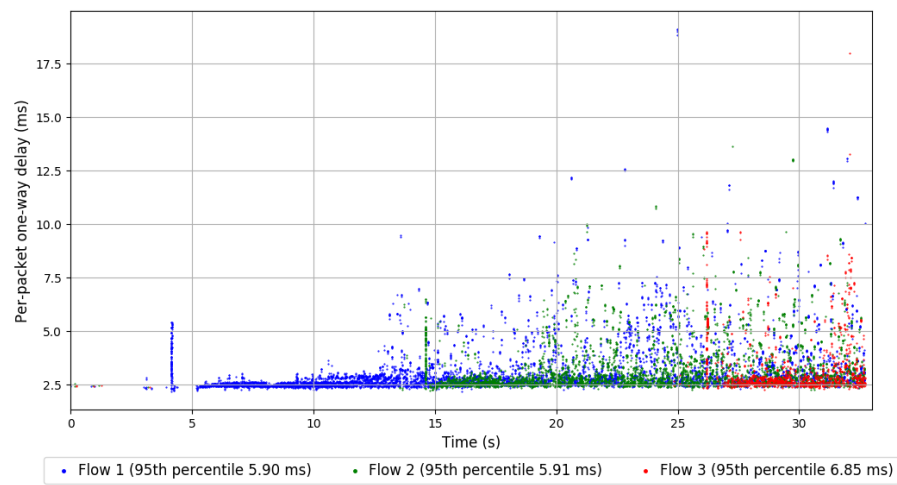
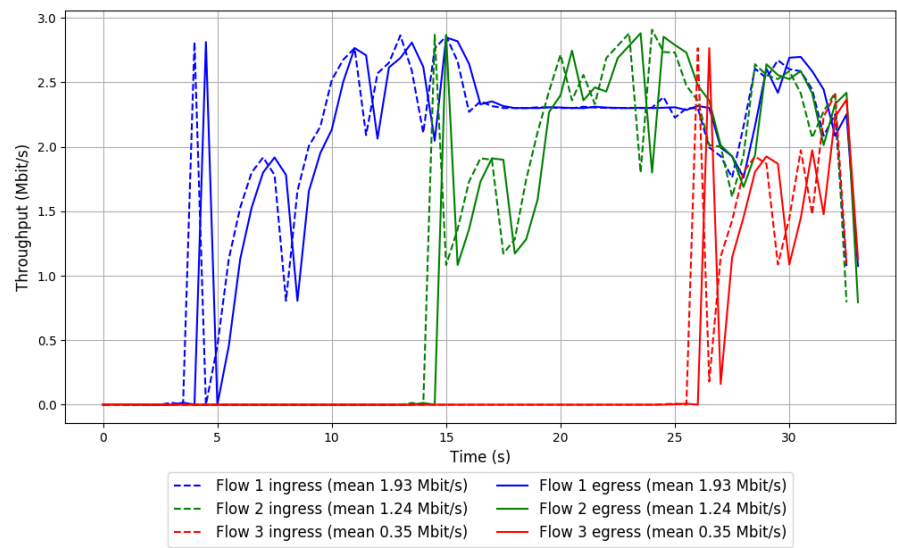
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 6.846 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-25 09:56:13

End at: 2018-09-25 09:56:43

Local clock offset: -5.497 ms

Remote clock offset: 0.679 ms

Below is generated by plot.py at 2018-09-25 10:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 7.223 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 6.858 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 7.858 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 5.848 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

