

Pantheon Report

Generated at 2018-12-02 06:42:43 (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:

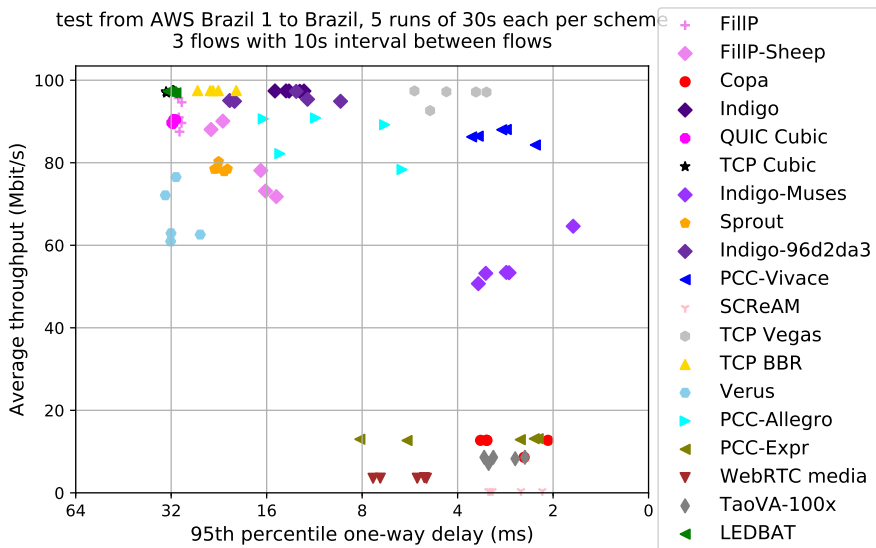
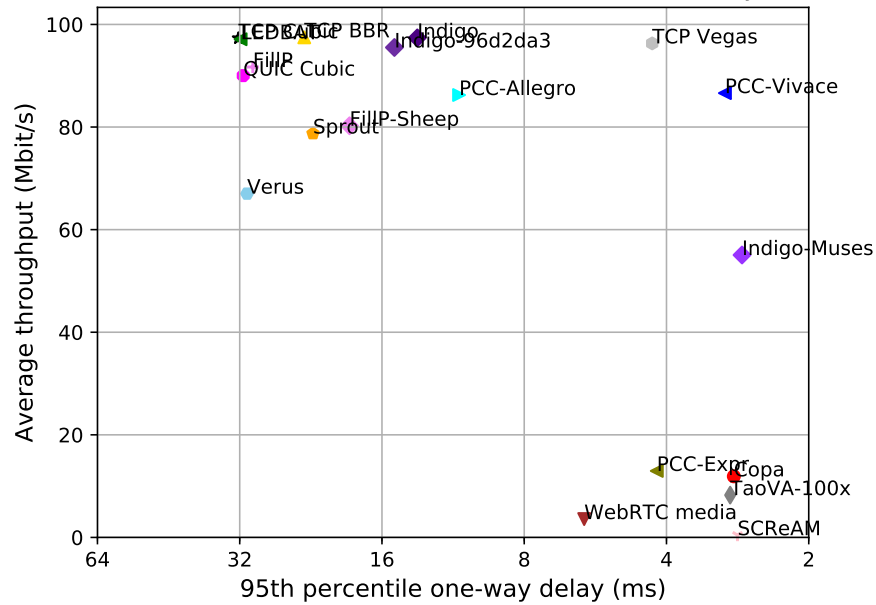
```
Linux 4.15.0-1027-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

test from 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)



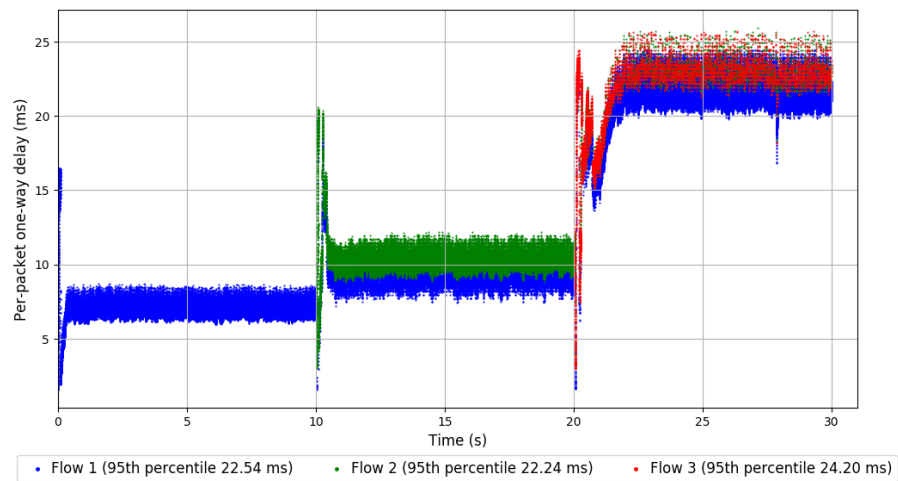
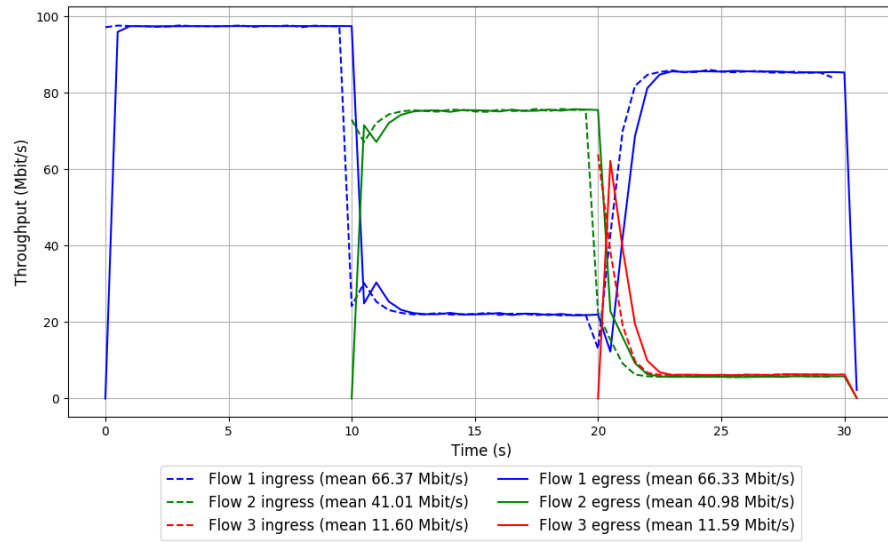
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	68.65	35.99	14.58	23.19	21.00	26.87	0.00	0.01	0.07
Copa	5	7.54	5.03	5.46	2.59	2.83	2.84	72.25	76.96	76.43
TCP Cubic	5	63.90	36.19	28.09	31.86	32.21	31.77	0.04	0.05	0.06
FillP	5	47.12	45.29	43.54	27.62	30.07	29.70	7.17	15.45	39.66
FillP-Sheep	5	49.83	26.22	39.14	15.72	18.71	23.84	0.79	0.90	3.12
Indigo	5	46.61	41.16	72.00	11.18	12.85	13.83	0.00	0.00	0.02
Indigo-96d2da3	5	52.88	38.57	51.52	12.69	14.48	15.66	0.00	0.01	0.00
LEDBAT	5	61.22	36.02	35.88	31.34	31.67	32.02	0.05	0.13	0.07
Indigo-Muses	5	24.64	31.46	28.72	2.84	1.80	2.12	0.00	0.00	0.00
PCC-Allegro	5	65.90	23.52	14.28	8.16	14.31	17.16	0.00	0.03	0.01
PCC-Expr	5	8.00	5.32	4.33	6.34	2.37	2.36	33.53	25.37	26.04
QUIC Cubic	5	56.76	35.79	28.80	31.00	31.46	30.59	0.15	0.17	0.20
SCReAM	5	0.22	0.22	0.22	2.55	1.65	2.22	0.00	0.00	0.00
Sprout	5	43.21	38.83	29.33	20.34	22.27	24.79	0.02	0.02	0.00
TaoVA-100x	5	0.00	9.70	5.38	2.02	2.93	3.35	95.92	80.28	86.19
TCP Vegas	5	50.64	39.21	58.81	4.82	3.60	4.41	0.02	0.00	0.01
Verus	5	37.87	32.63	23.42	29.21	30.63	32.47	13.80	15.84	21.61
PCC-Vivace	5	55.48	34.95	23.89	2.68	3.17	2.85	0.01	0.00	0.02
WebRTC media	5	1.94	1.26	0.38	5.82	5.88	6.36	0.01	0.03	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-12-02 04:55:52
End at: 2018-12-02 04:56:22
Local clock offset: -3.016 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-12-02 06:33:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 22.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.33 Mbit/s
95th percentile per-packet one-way delay: 22.540 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.98 Mbit/s
95th percentile per-packet one-way delay: 22.236 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 24.200 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link

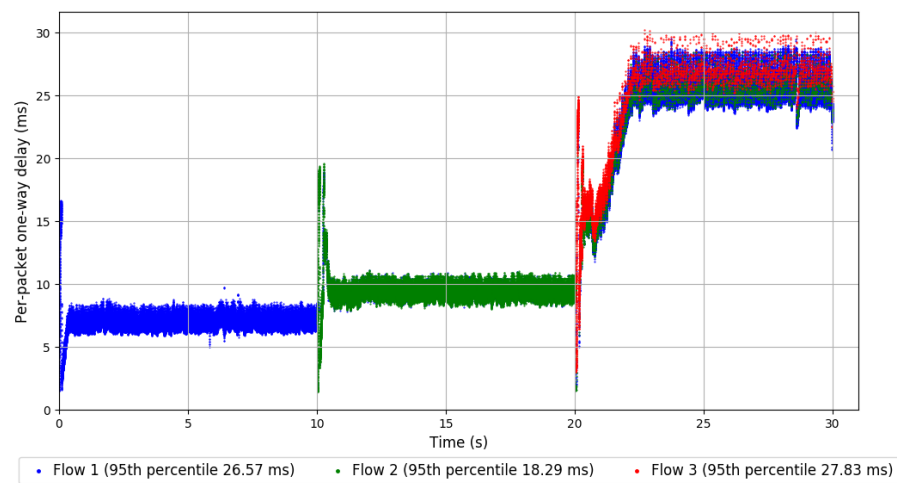
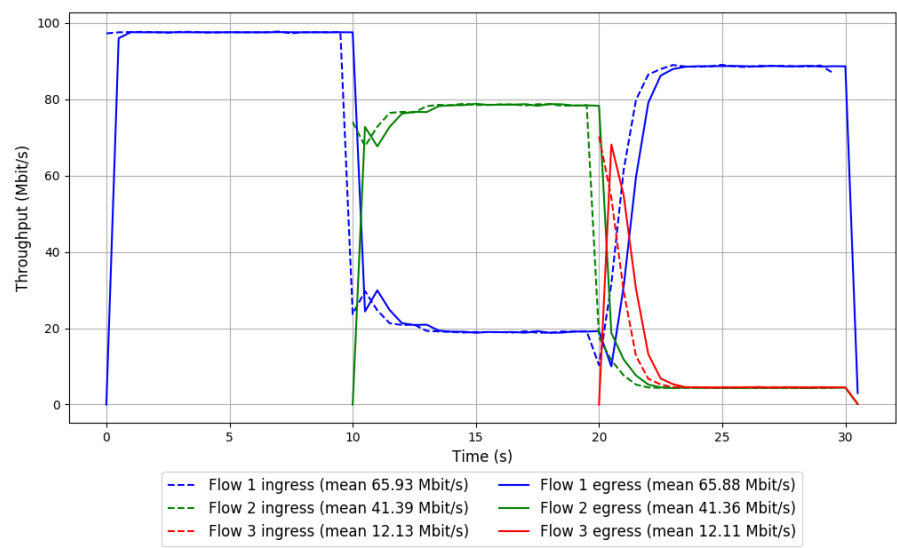


Run 2: Statistics of TCP BBR

Start at: 2018-12-02 05:17:26
End at: 2018-12-02 05:17:56
Local clock offset: -3.472 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-12-02 06:33:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 26.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.88 Mbit/s
95th percentile per-packet one-way delay: 26.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 18.291 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 27.826 ms
Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-12-02 05:38:58

End at: 2018-12-02 05:39:28

Local clock offset: 1.431 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-12-02 06:33:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 23.615 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 76.62 Mbit/s

95th percentile per-packet one-way delay: 23.257 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 22.658 ms

Loss rate: 0.01%

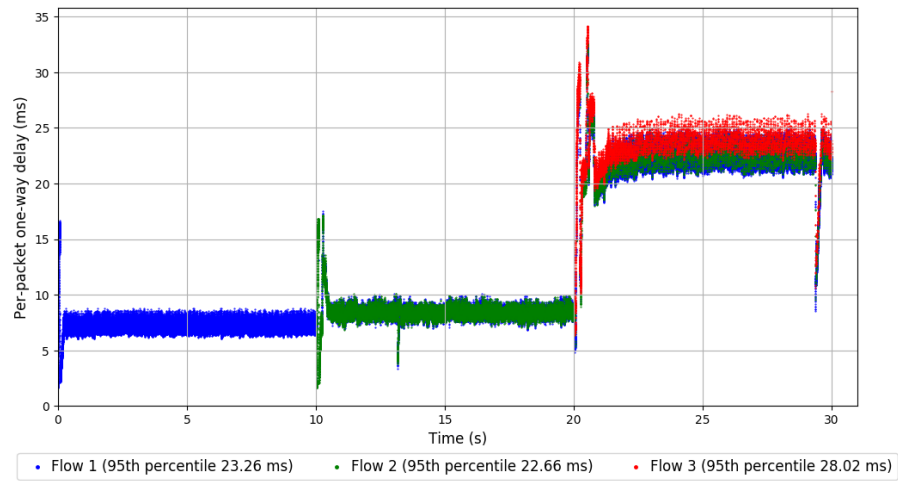
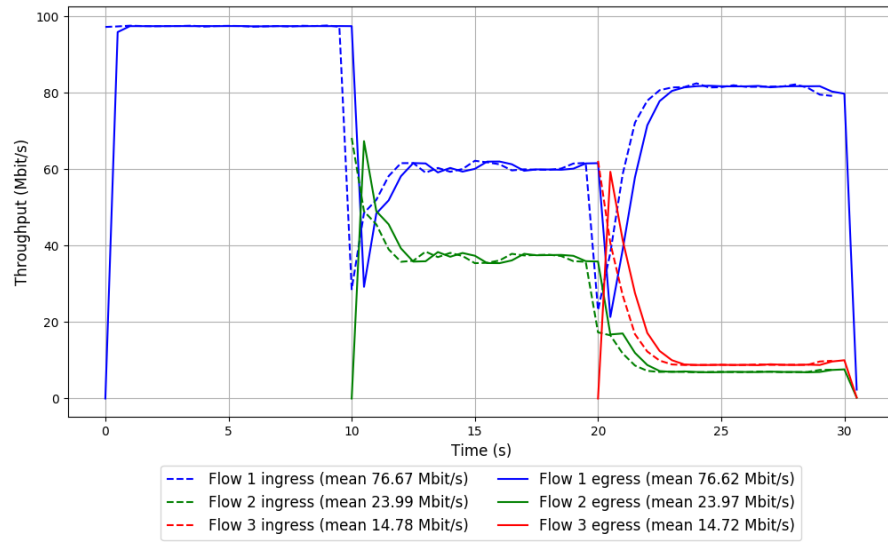
-- Flow 3:

Average throughput: 14.72 Mbit/s

95th percentile per-packet one-way delay: 28.024 ms

Loss rate: 0.18%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-12-02 06:00:31

End at: 2018-12-02 06:01:01

Local clock offset: -2.384 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2018-12-02 06:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 24.106 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 24.042 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.20 Mbit/s

95th percentile per-packet one-way delay: 23.227 ms

Loss rate: 0.06%

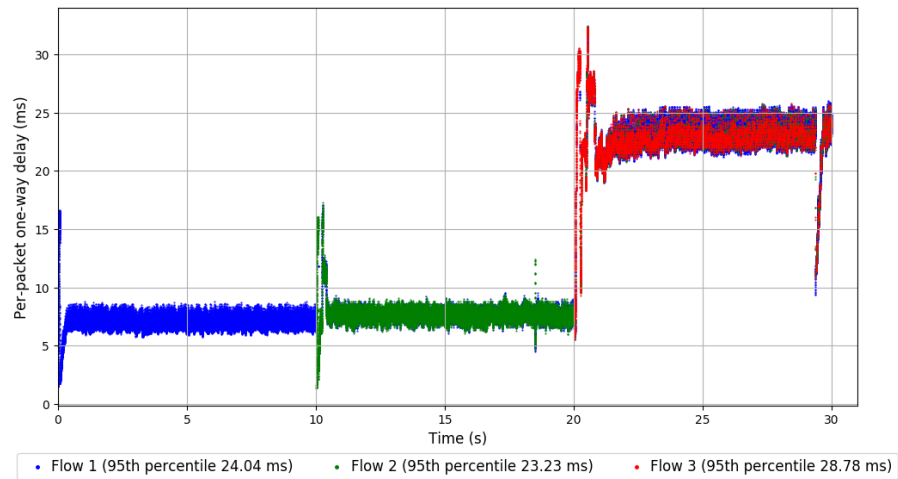
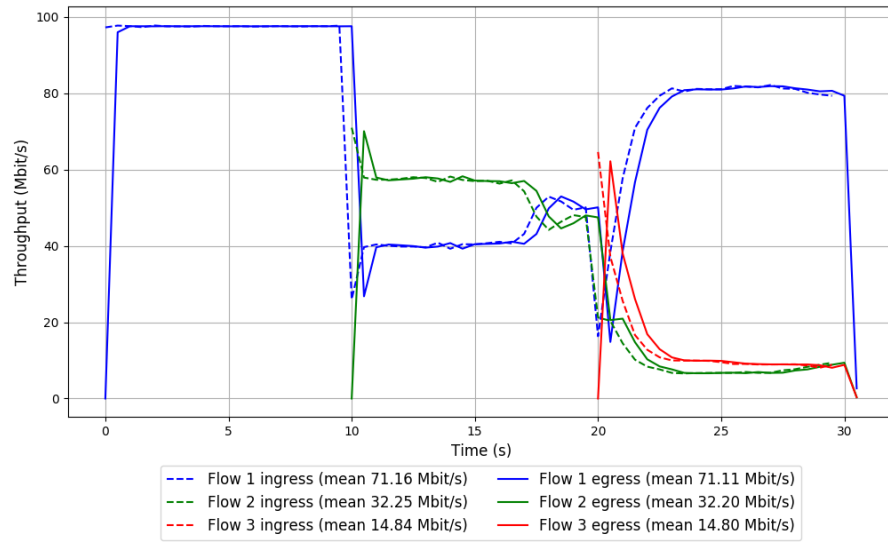
-- Flow 3:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 28.780 ms

Loss rate: 0.14%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-12-02 06:22:04

End at: 2018-12-02 06:22:34

Local clock offset: -3.778 ms

Remote clock offset: 0.552 ms

Below is generated by plot.py at 2018-12-02 06:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 19.946 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 19.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.43 Mbit/s

95th percentile per-packet one-way delay: 18.586 ms

Loss rate: 0.00%

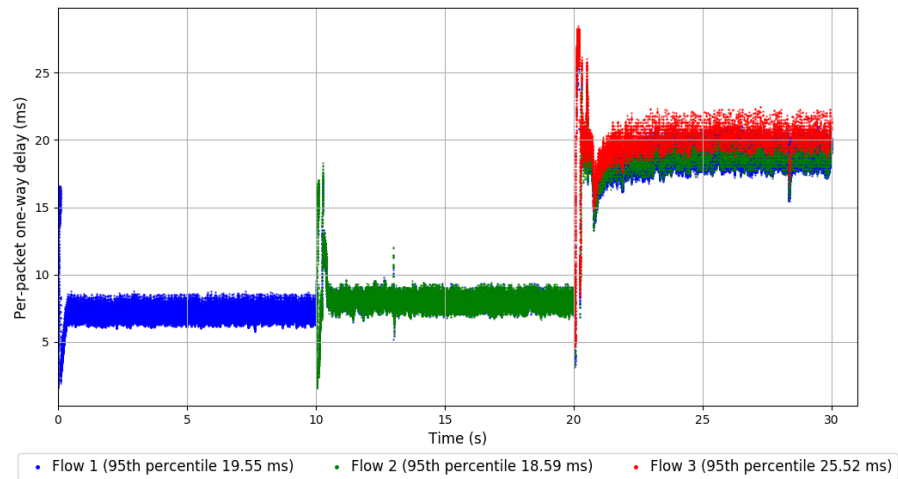
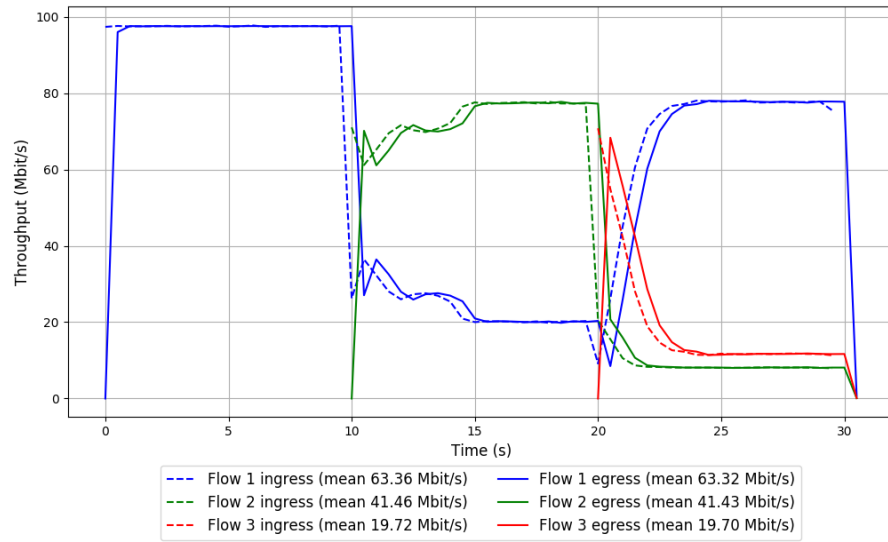
-- Flow 3:

Average throughput: 19.70 Mbit/s

95th percentile per-packet one-way delay: 25.524 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link

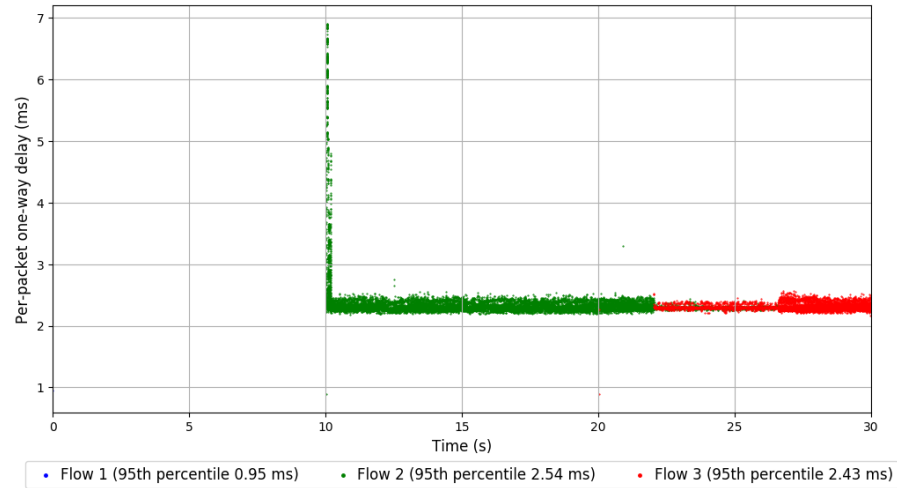
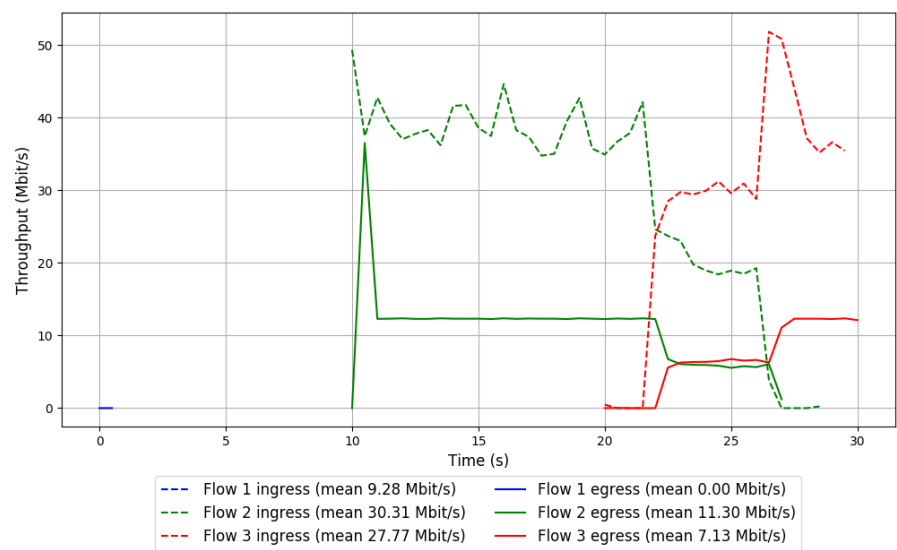


Run 1: Statistics of Copa

Start at: 2018-12-02 04:45:44
End at: 2018-12-02 04:46:14
Local clock offset: -1.348 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-12-02 06:33:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.468 ms
Loss rate: 69.24%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 0.950 ms
Loss rate: 97.24%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 2.540 ms
Loss rate: 66.74%
-- Flow 3:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 74.33%

Run 1: Report of Copa — Data Link

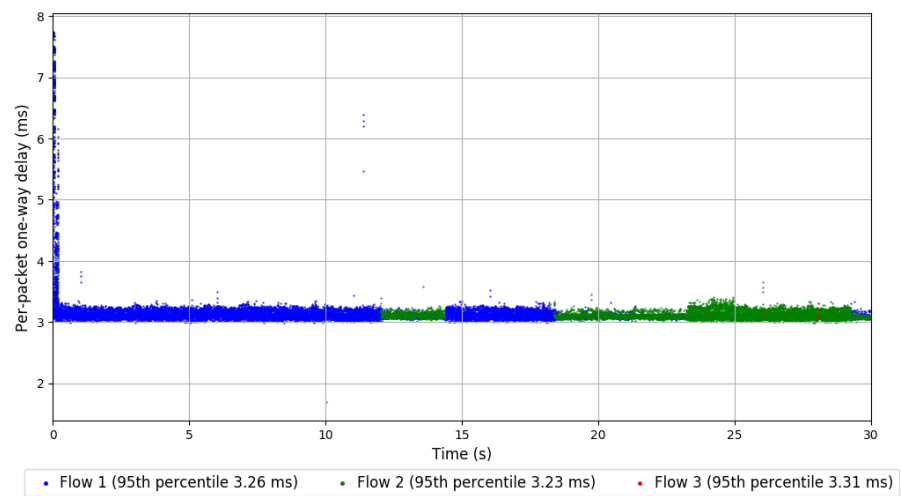
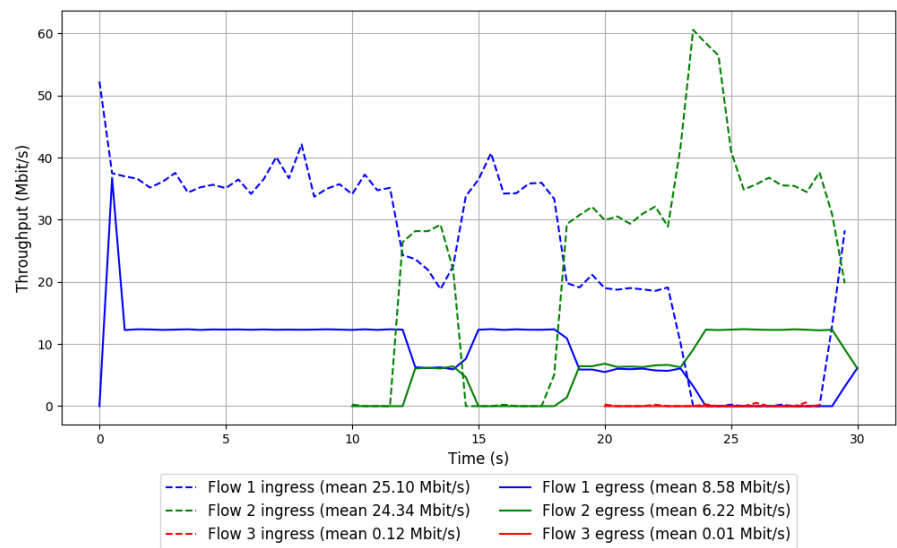


Run 2: Statistics of Copa

Start at: 2018-12-02 05:07:17
End at: 2018-12-02 05:07:47
Local clock offset: -3.399 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-12-02 06:33:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.245 ms
Loss rate: 69.21%
-- Flow 1:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 3.259 ms
Loss rate: 65.80%
-- Flow 2:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 3.229 ms
Loss rate: 74.45%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 3.311 ms
Loss rate: 88.66%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-12-02 05:28:49

End at: 2018-12-02 05:29:19

Local clock offset: 0.088 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-12-02 06:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.385 ms

Loss rate: 66.93%

-- Flow 1:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 3.369 ms

Loss rate: 65.45%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 3.211 ms

Loss rate: 92.91%

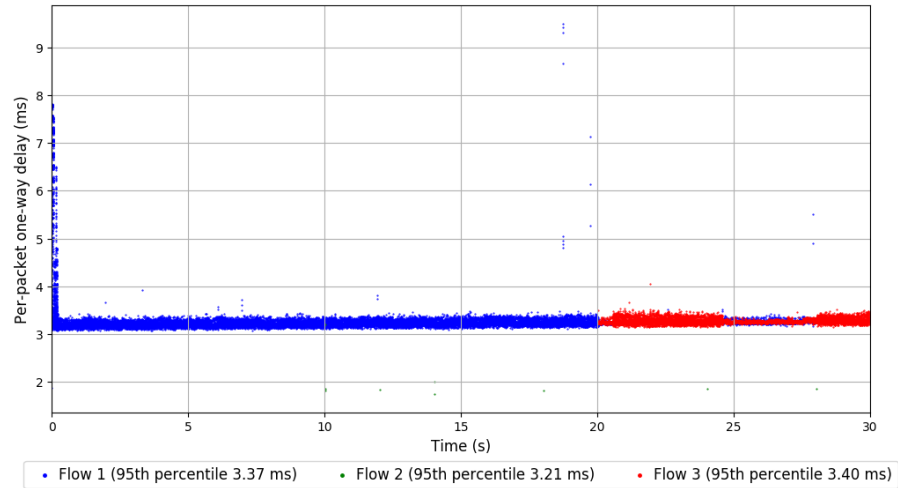
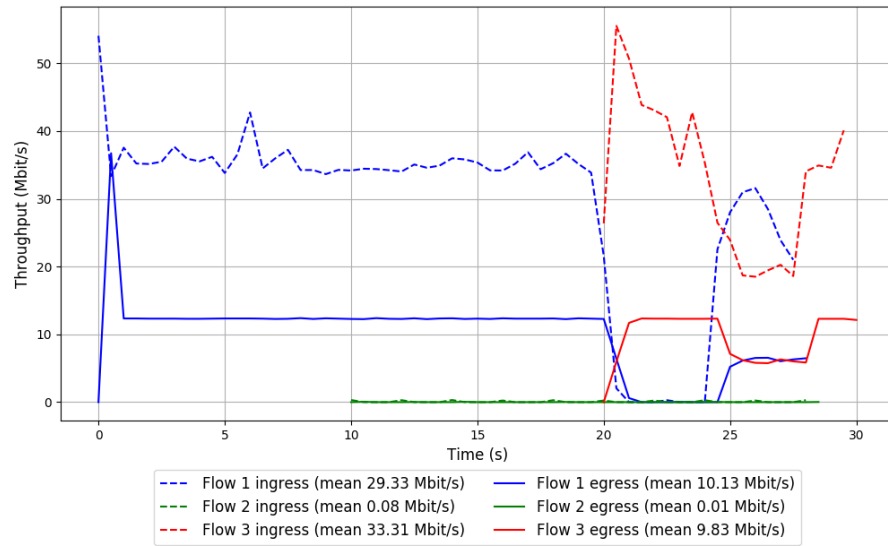
-- Flow 3:

Average throughput: 9.83 Mbit/s

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

Loss rate: 70.49%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-12-02 05:50:22

End at: 2018-12-02 05:50:52

Local clock offset: 1.672 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-12-02 06:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.076 ms

Loss rate: 67.19%

-- Flow 1:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 2.103 ms

Loss rate: 65.86%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 2.000 ms

Loss rate: 79.00%

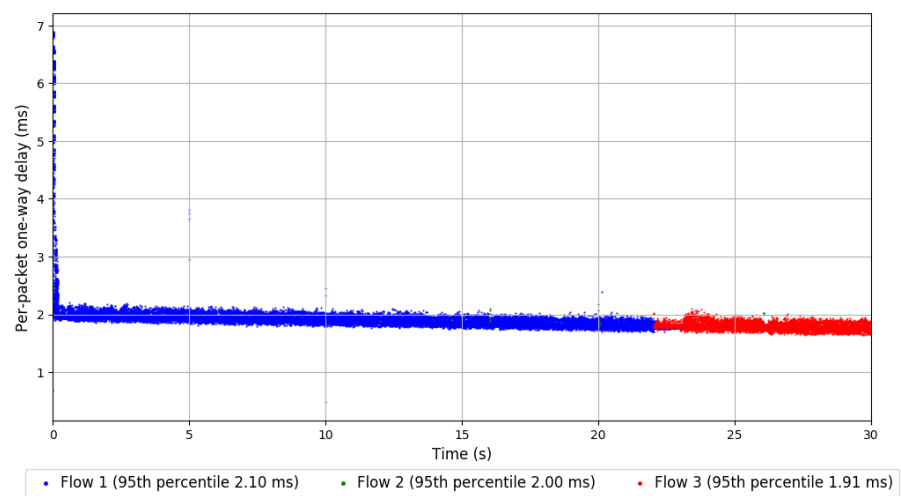
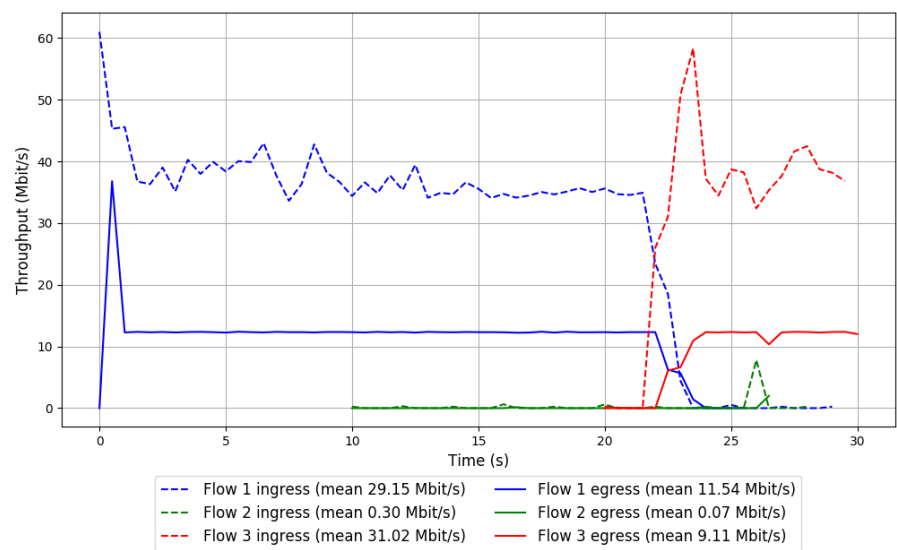
-- Flow 3:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 1.909 ms

Loss rate: 70.65%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-02 06:11:56

End at: 2018-12-02 06:12:26

Local clock offset: -3.629 ms

Remote clock offset: 0.606 ms

Below is generated by plot.py at 2018-12-02 06:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.232 ms

Loss rate: 69.37%

-- Flow 1:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 3.280 ms

Loss rate: 66.89%

-- Flow 2:

Average throughput: 7.53 Mbit/s

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

Loss rate: 71.68%

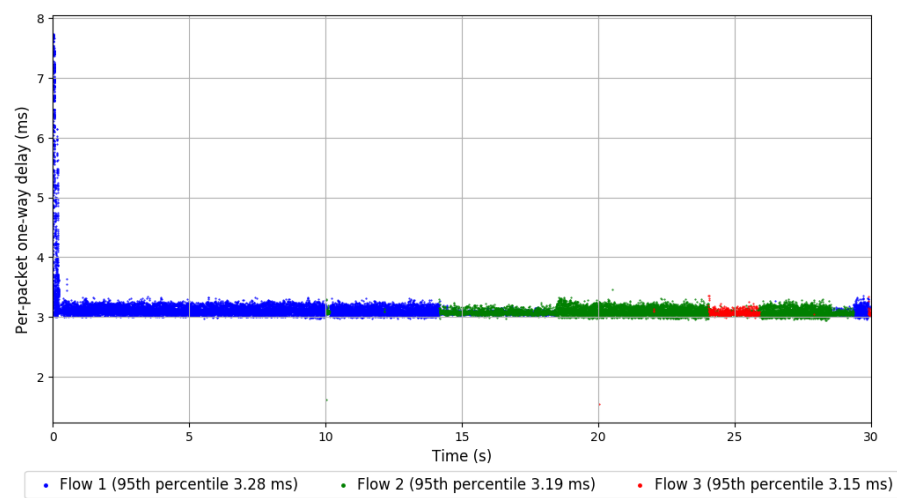
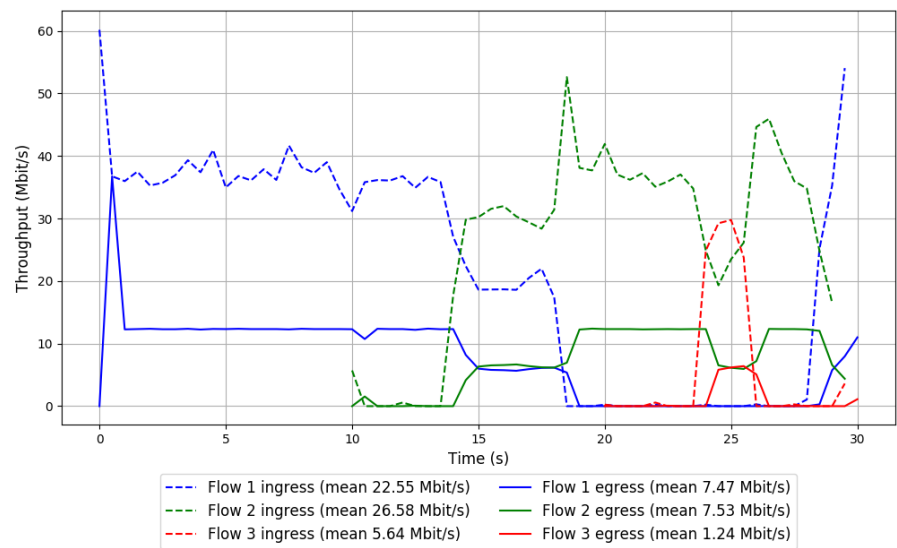
-- Flow 3:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 3.150 ms

Loss rate: 78.03%

Run 5: Report of Copa — Data Link

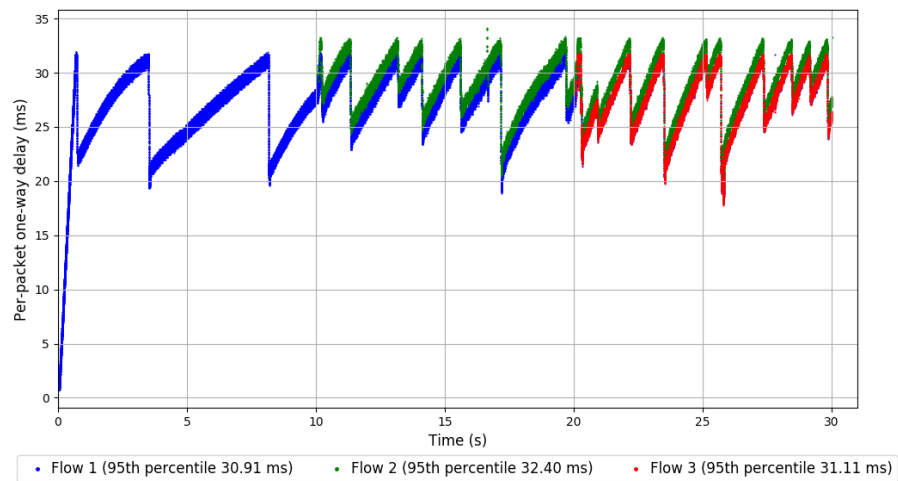
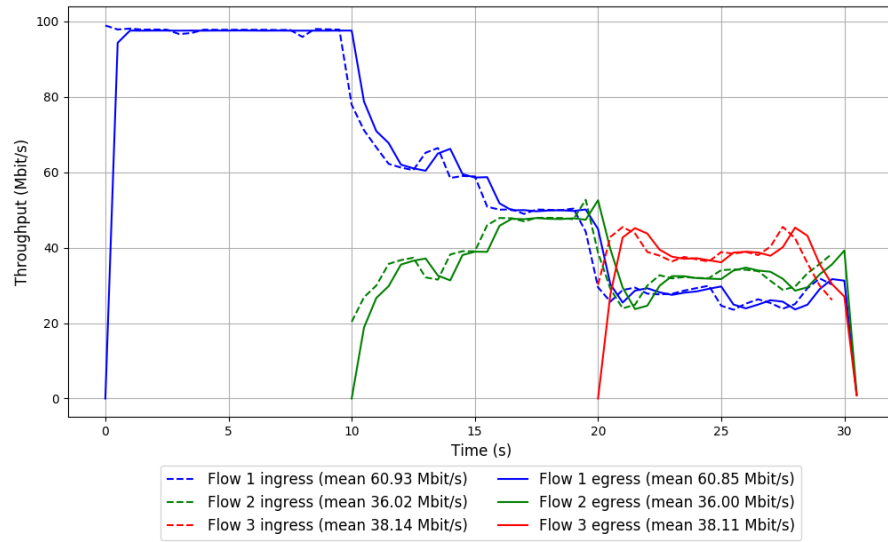


Run 1: Statistics of TCP Cubic

Start at: 2018-12-02 04:53:34
End at: 2018-12-02 04:54:04
Local clock offset: -2.031 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-12-02 06:33:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 31.536 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 30.914 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.00 Mbit/s
95th percentile per-packet one-way delay: 32.403 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 31.115 ms
Loss rate: 0.09%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-02 05:15:07

End at: 2018-12-02 05:15:37

Local clock offset: -3.528 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-12-02 06:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 33.092 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 33.333 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 32.015 ms

Loss rate: 0.06%

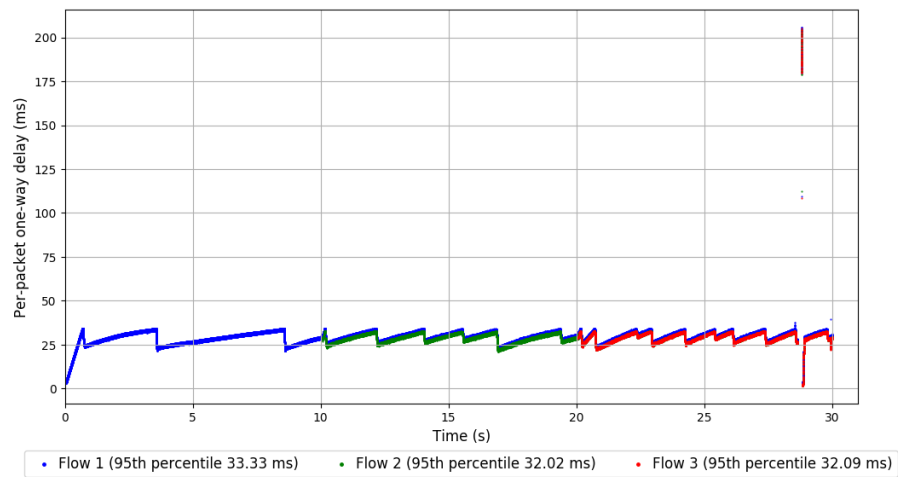
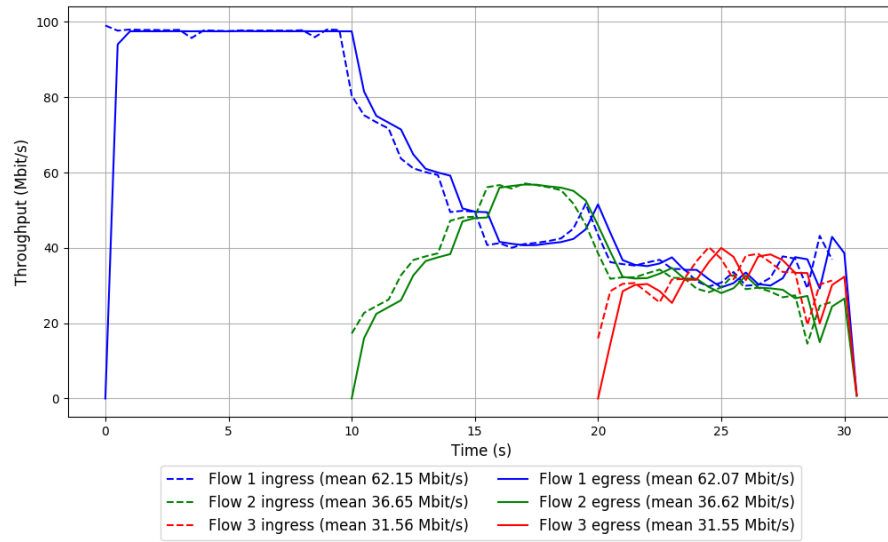
-- Flow 3:

Average throughput: 31.55 Mbit/s

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

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-12-02 05:36:40

End at: 2018-12-02 05:37:10

Local clock offset: 1.255 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-12-02 06:33:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 33.208 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 33.250 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 31.843 ms

Loss rate: 0.05%

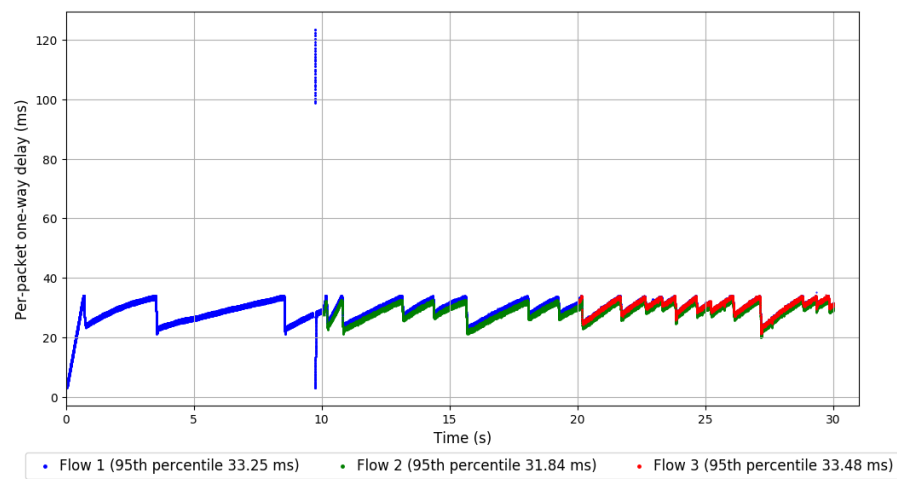
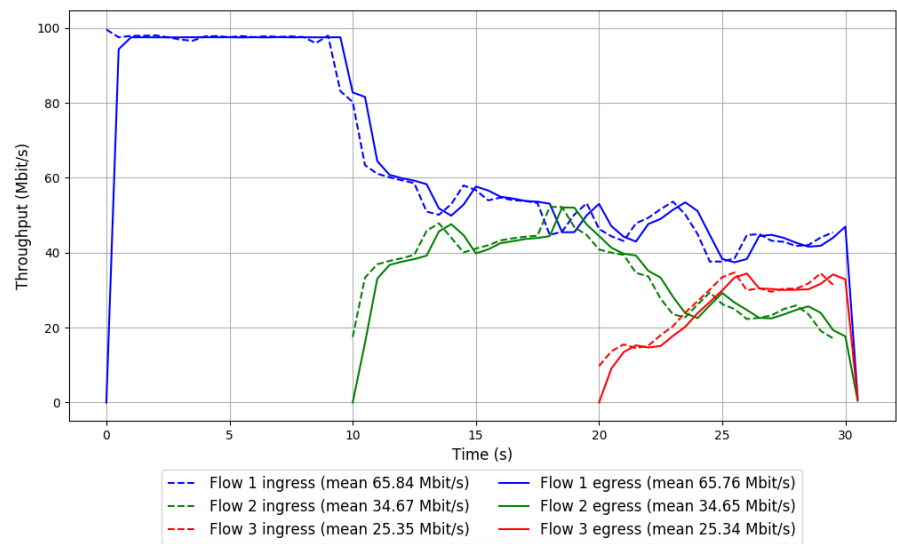
-- Flow 3:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 33.475 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-12-02 05:58:12

End at: 2018-12-02 05:58:42

Local clock offset: -1.168 ms

Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-12-02 06:34:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.413 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 30.781 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 38.22 Mbit/s

95th percentile per-packet one-way delay: 32.241 ms

Loss rate: 0.03%

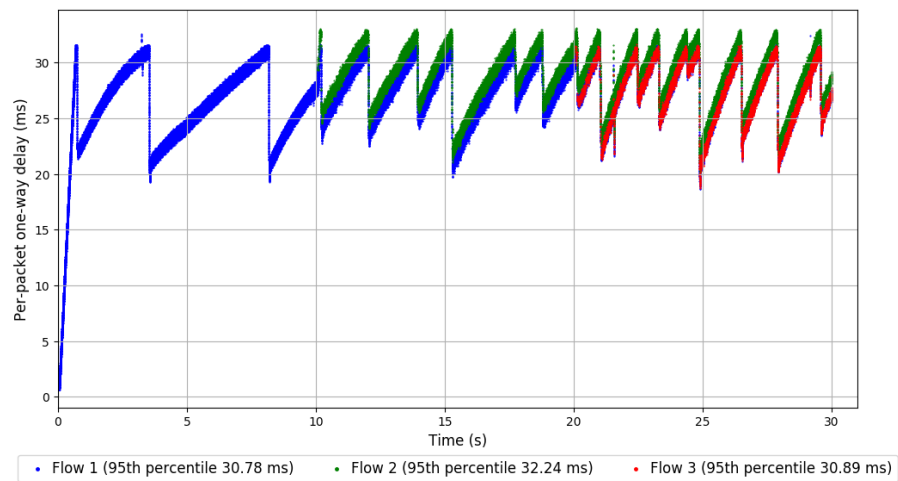
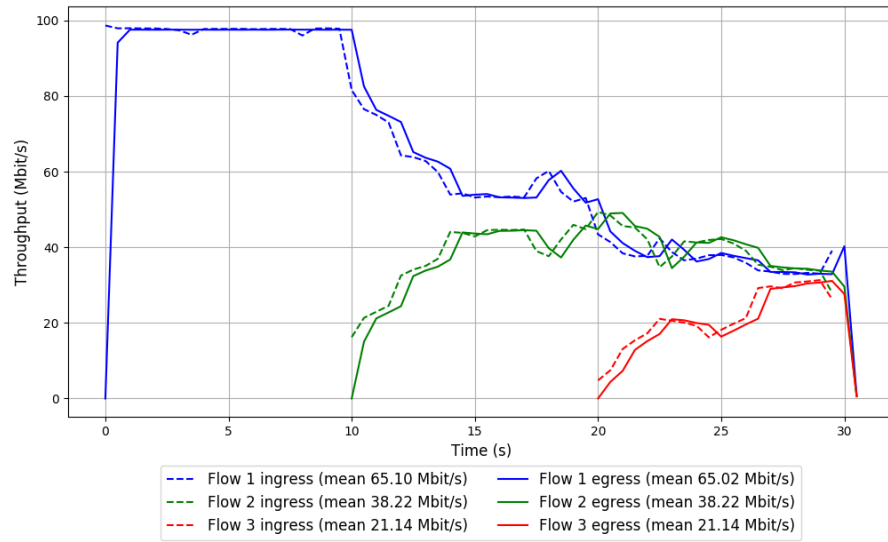
-- Flow 3:

Average throughput: 21.14 Mbit/s

95th percentile per-packet one-way delay: 30.889 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-12-02 06:19:46

End at: 2018-12-02 06:20:16

Local clock offset: -3.156 ms

Remote clock offset: 0.53 ms

Below is generated by plot.py at 2018-12-02 06:34:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.757 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 65.81 Mbit/s

95th percentile per-packet one-way delay: 31.028 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 32.531 ms

Loss rate: 0.03%

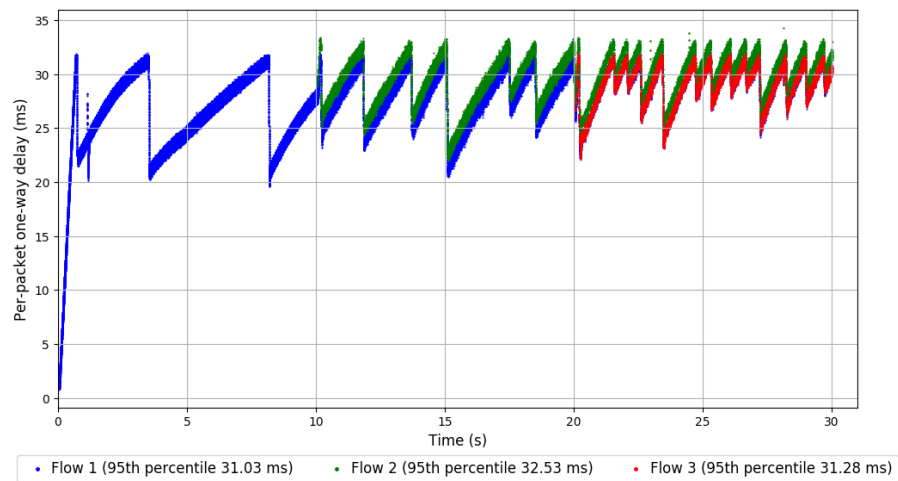
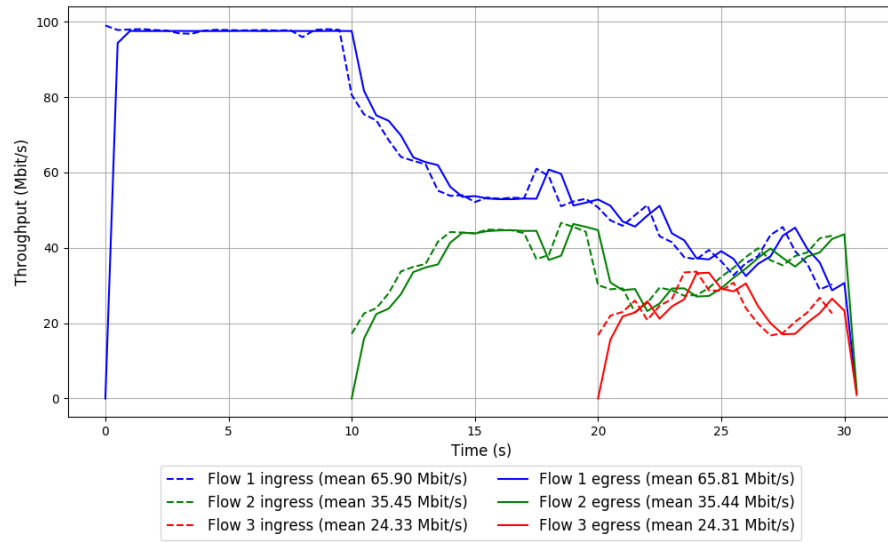
-- Flow 3:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 31.280 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link

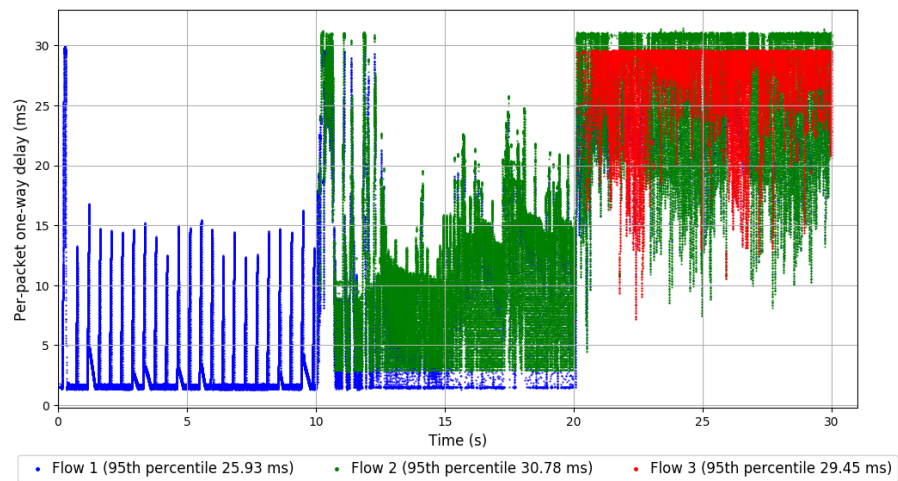
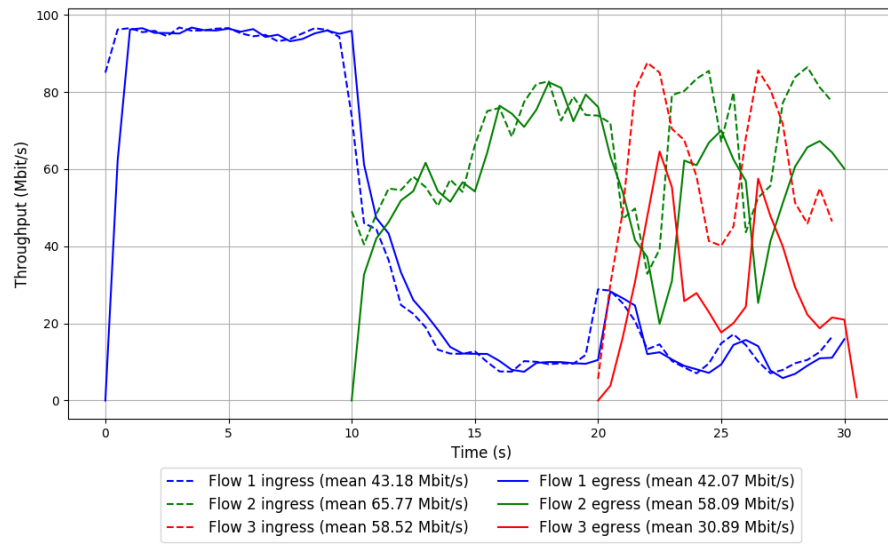


Run 1: Statistics of FillP

Start at: 2018-12-02 04:59:17
End at: 2018-12-02 04:59:47
Local clock offset: -3.173 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2018-12-02 06:34:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 30.273 ms
Loss rate: 14.38%
-- Flow 1:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 25.929 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 30.781 ms
Loss rate: 11.55%
-- Flow 3:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 29.448 ms
Loss rate: 47.11%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-12-02 05:20:50

End at: 2018-12-02 05:21:20

Local clock offset: -1.46 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-12-02 06:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 30.360 ms

Loss rate: 18.85%

-- Flow 1:

Average throughput: 48.83 Mbit/s

95th percentile per-packet one-way delay: 30.191 ms

Loss rate: 12.63%

-- Flow 2:

Average throughput: 55.08 Mbit/s

95th percentile per-packet one-way delay: 30.459 ms

Loss rate: 16.44%

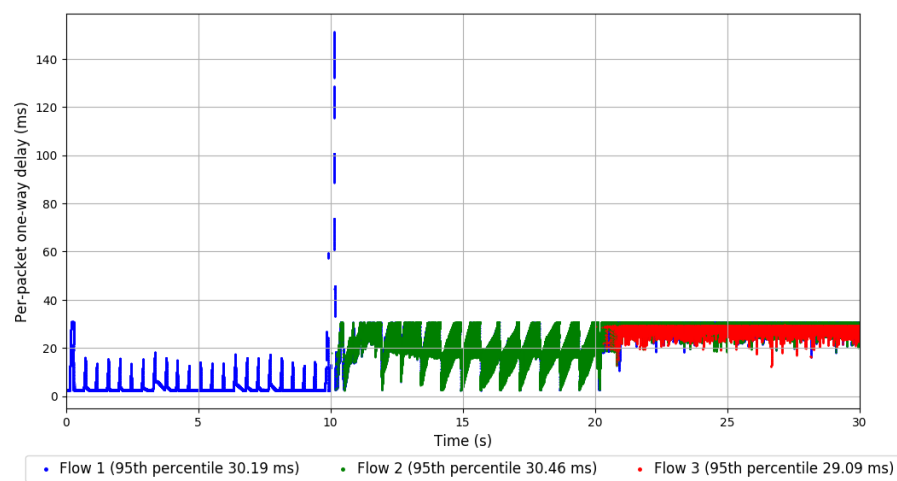
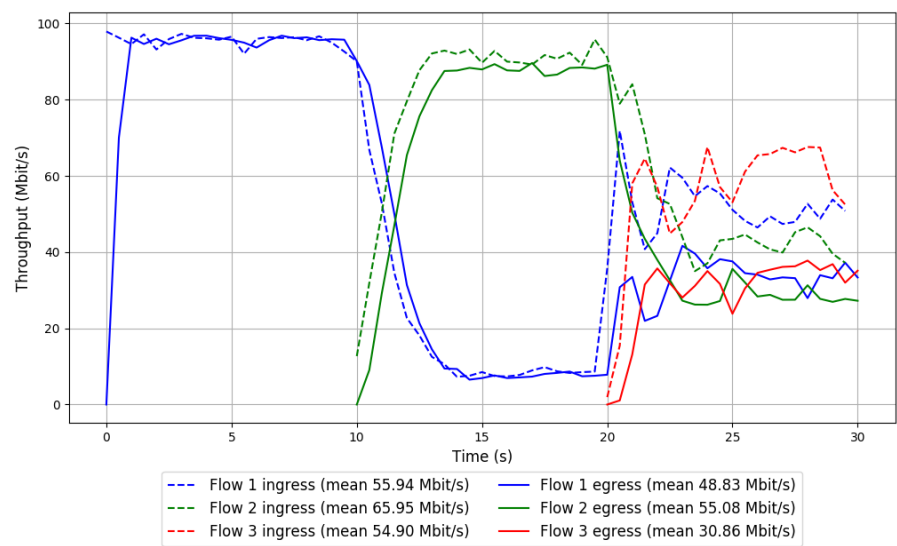
-- Flow 3:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 29.093 ms

Loss rate: 43.81%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-12-02 05:42:22

End at: 2018-12-02 05:42:52

Local clock offset: 2.575 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-12-02 06:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 30.113 ms

Loss rate: 14.78%

-- Flow 1:

Average throughput: 44.37 Mbit/s

95th percentile per-packet one-way delay: 24.551 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 30.073 ms

Loss rate: 18.72%

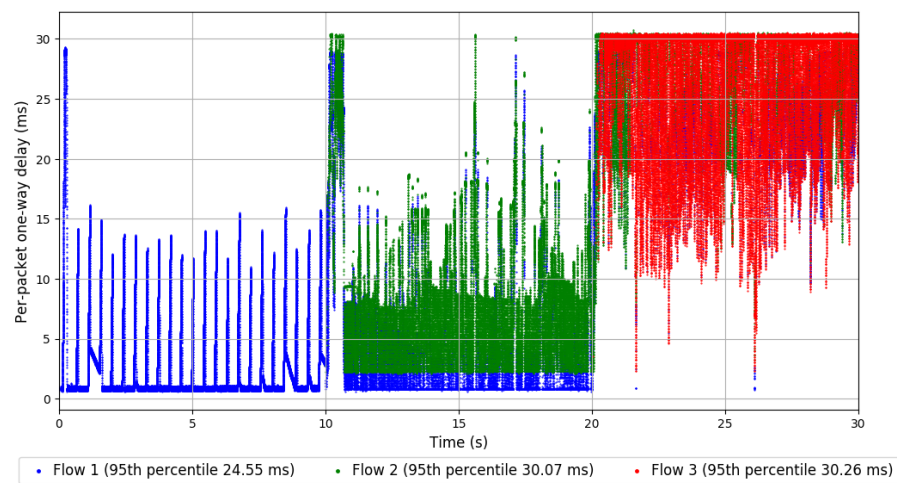
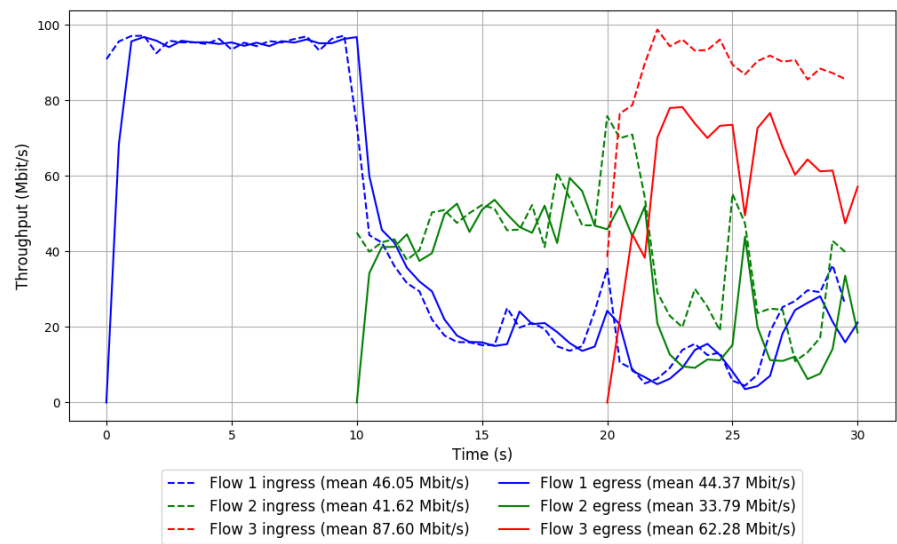
-- Flow 3:

Average throughput: 62.28 Mbit/s

95th percentile per-packet one-way delay: 30.257 ms

Loss rate: 28.79%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-12-02 06:03:55

End at: 2018-12-02 06:04:25

Local clock offset: -2.966 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2018-12-02 06:34:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 29.683 ms

Loss rate: 15.62%

-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 29.617 ms

Loss rate: 7.01%

-- Flow 2:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 30.457 ms

Loss rate: 11.42%

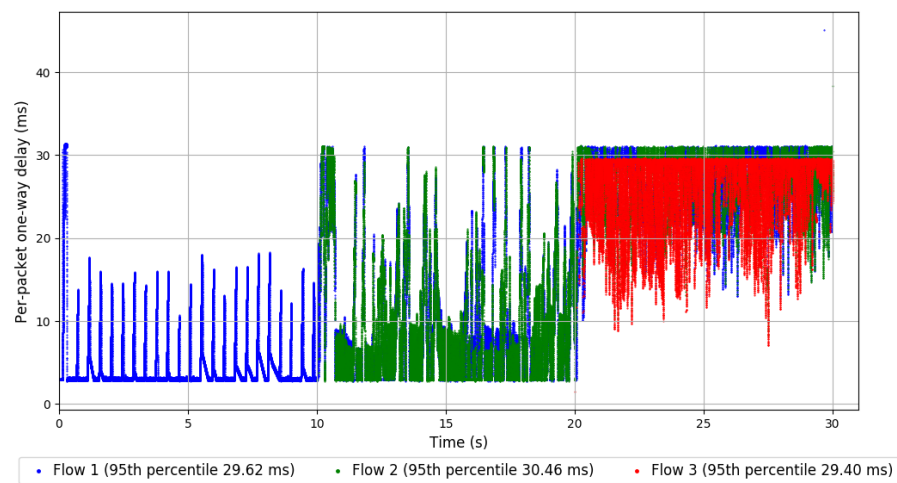
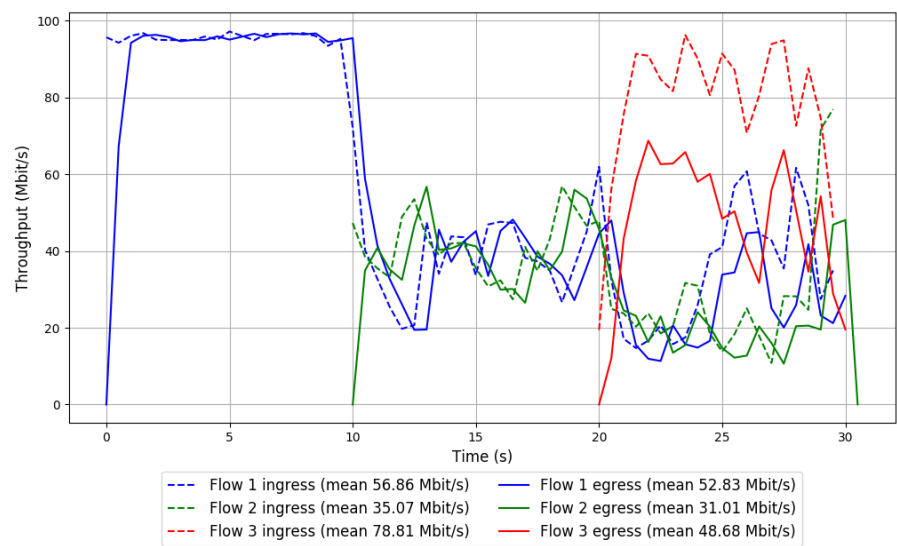
-- Flow 3:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 29.400 ms

Loss rate: 38.07%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-12-02 06:25:29

End at: 2018-12-02 06:25:59

Local clock offset: -2.979 ms

Remote clock offset: 0.454 ms

Below is generated by plot.py at 2018-12-02 06:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 29.648 ms

Loss rate: 19.64%

-- Flow 1:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 27.822 ms

Loss rate: 10.09%

-- Flow 2:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 28.578 ms

Loss rate: 19.14%

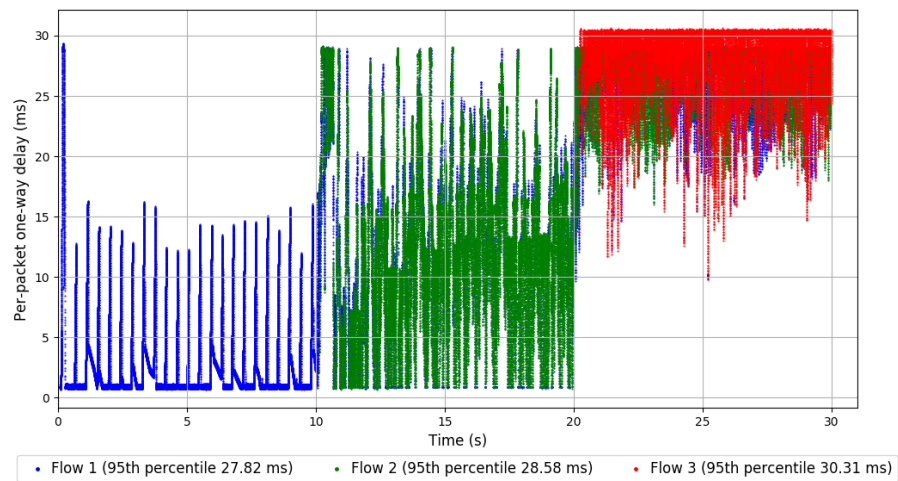
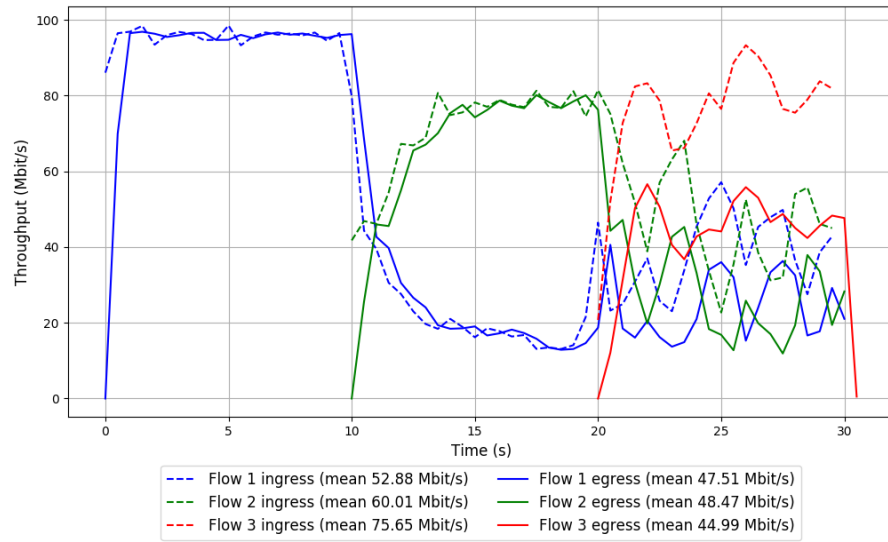
-- Flow 3:

Average throughput: 44.99 Mbit/s

95th percentile per-packet one-way delay: 30.308 ms

Loss rate: 40.51%

Run 5: Report of FillP — Data Link

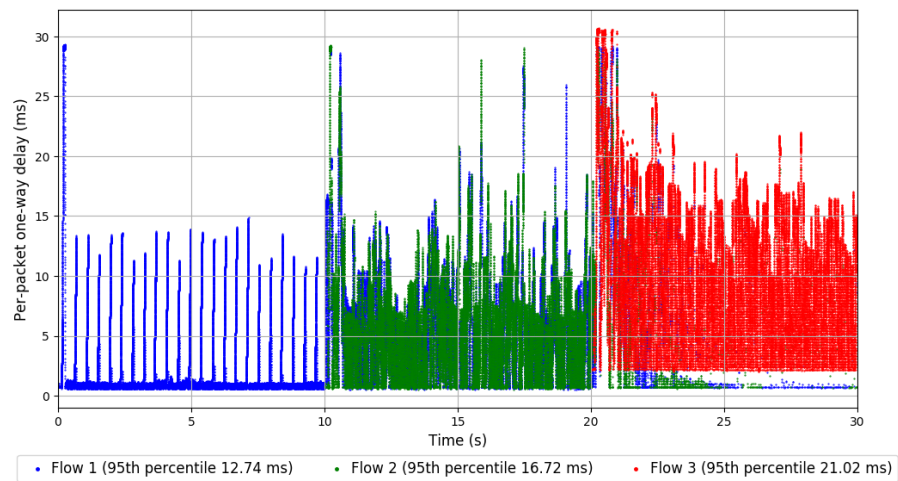
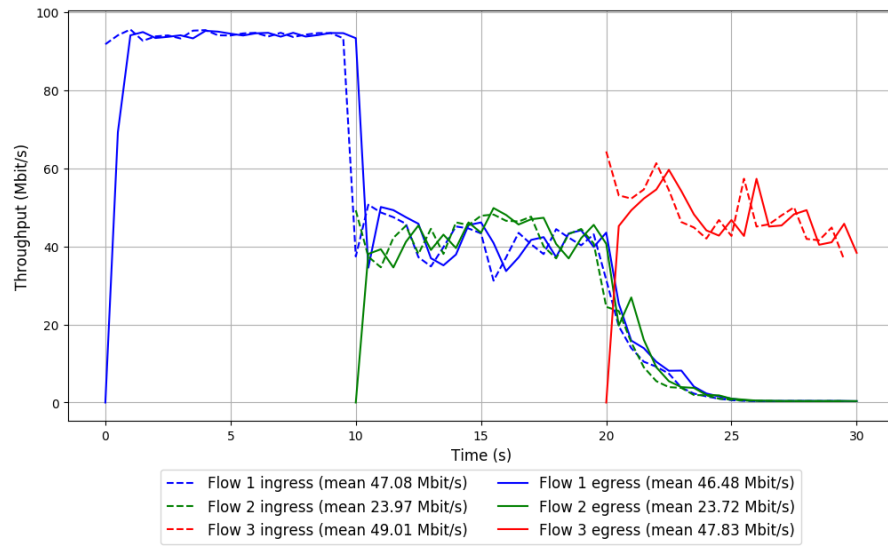



```
Run 1: Statistics of FillP-Sheep

Start at: 2018-12-02 04:58:09
End at: 2018-12-02 04:58:39
Local clock offset: -2.346 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-12-02 06:35:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.13 Mbit/s
95th percentile per-packet one-way delay: 16.698 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 46.48 Mbit/s
95th percentile per-packet one-way delay: 12.741 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 16.722 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 47.83 Mbit/s
95th percentile per-packet one-way delay: 21.019 ms
Loss rate: 2.36%
```

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-12-02 05:19:42

End at: 2018-12-02 05:20:12

Local clock offset: -2.675 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-12-02 06:35:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.15 Mbit/s

95th percentile per-packet one-way delay: 16.138 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 14.328 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 17.407 ms

Loss rate: 1.36%

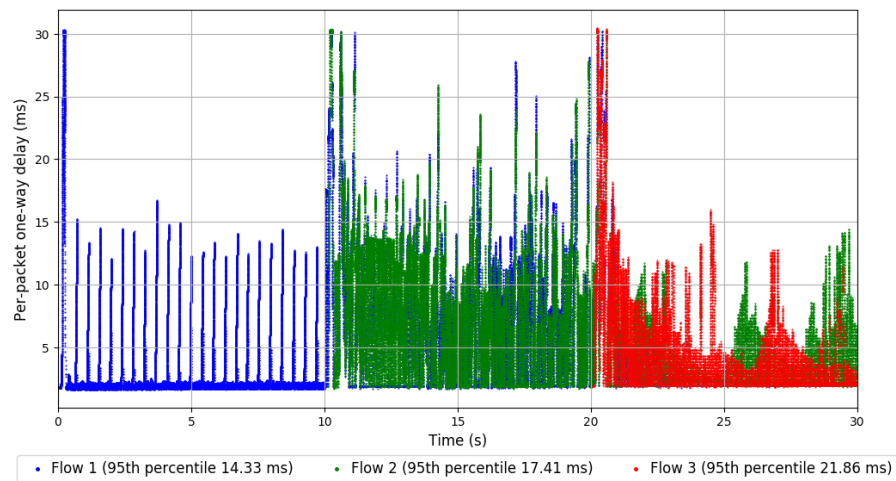
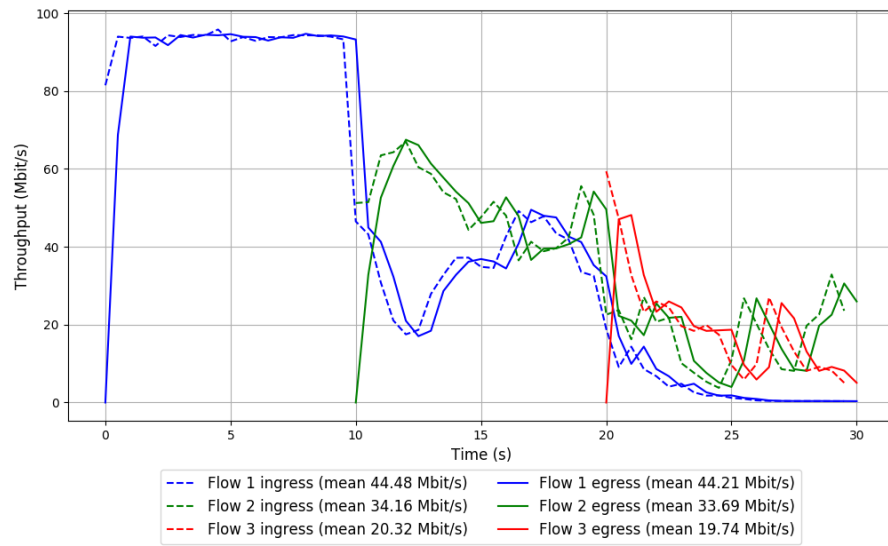
-- Flow 3:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 21.859 ms

Loss rate: 2.82%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-12-02 05:41:15

End at: 2018-12-02 05:41:45

Local clock offset: 1.717 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-12-02 06:35:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.80 Mbit/s

95th percentile per-packet one-way delay: 14.920 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 13.604 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 25.20 Mbit/s

95th percentile per-packet one-way delay: 16.403 ms

Loss rate: 0.31%

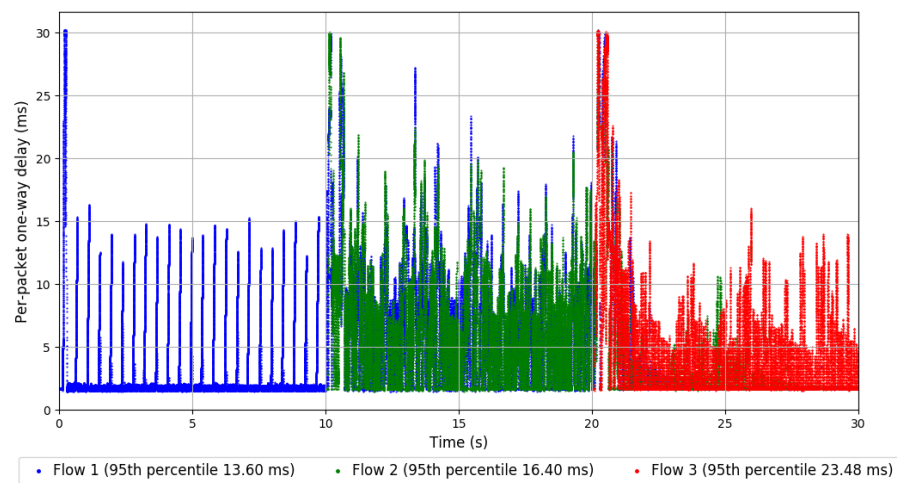
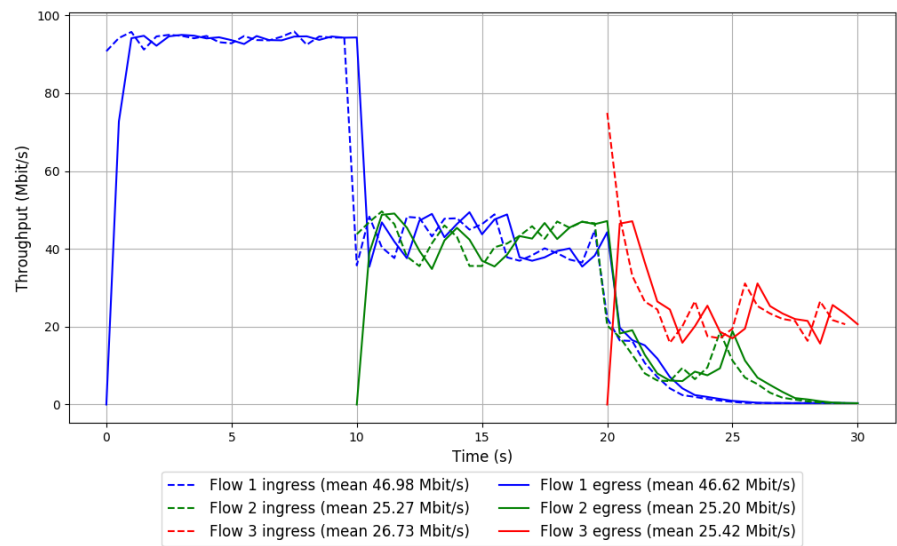
-- Flow 3:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 23.476 ms

Loss rate: 4.92%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-12-02 06:02:47

End at: 2018-12-02 06:03:17

Local clock offset: -2.788 ms

Remote clock offset: 0.428 ms

Below is generated by plot.py at 2018-12-02 06:36:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.09 Mbit/s

95th percentile per-packet one-way delay: 21.994 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 54.98 Mbit/s

95th percentile per-packet one-way delay: 19.946 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 23.214 ms

Loss rate: 0.67%

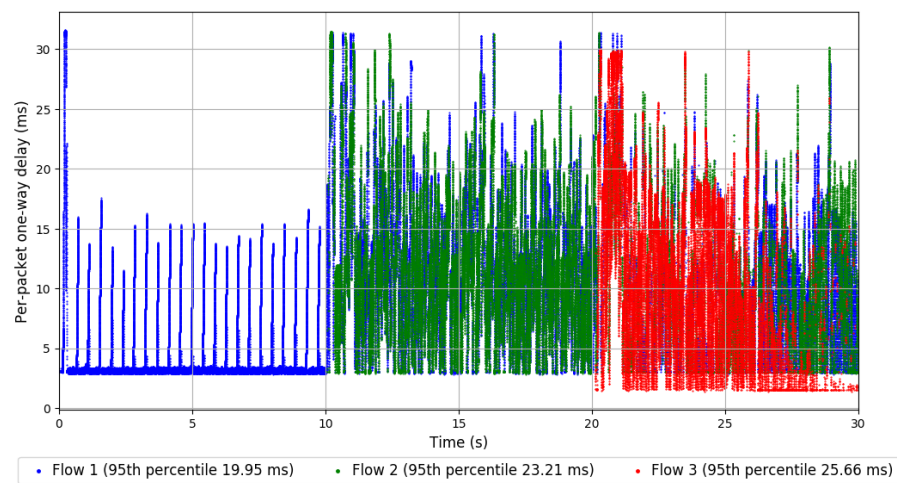
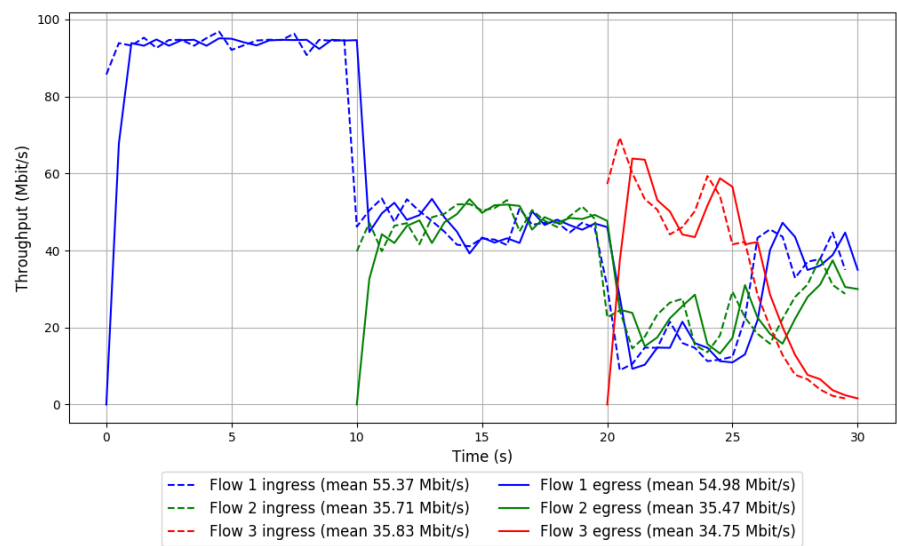
-- Flow 3:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 25.665 ms

Loss rate: 3.09%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-12-02 06:24:21

End at: 2018-12-02 06:24:51

Local clock offset: -2.937 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2018-12-02 06:36:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.06 Mbit/s

95th percentile per-packet one-way delay: 23.956 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 18.002 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 19.802 ms

Loss rate: 1.09%

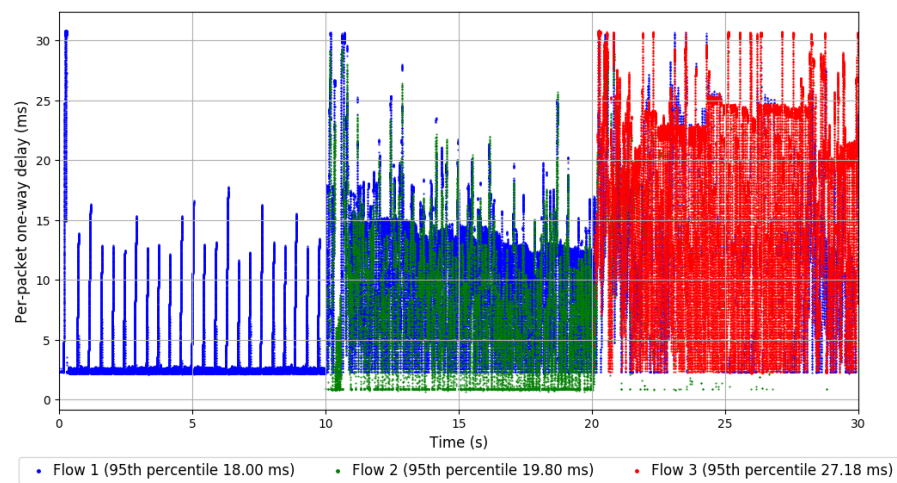
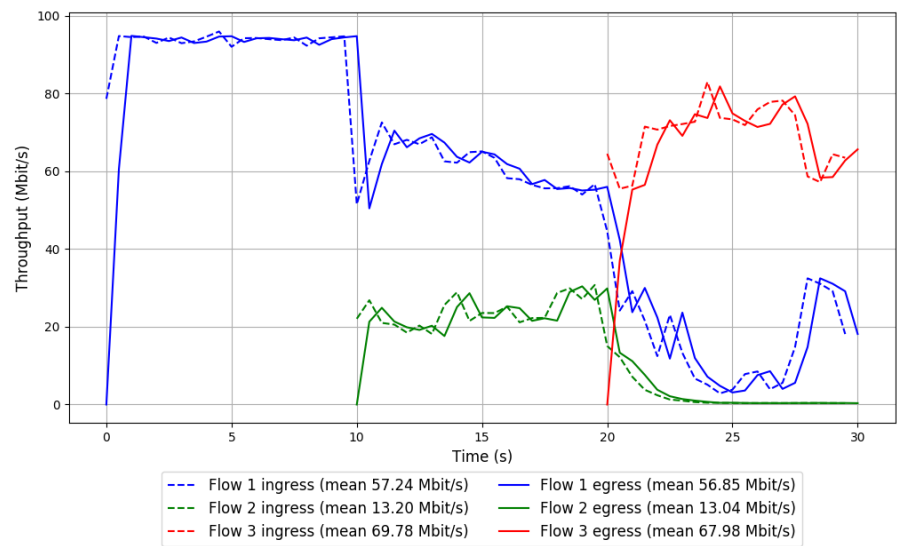
-- Flow 3:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 27.176 ms

Loss rate: 2.43%

Run 5: Report of FillP-Sheep — Data Link

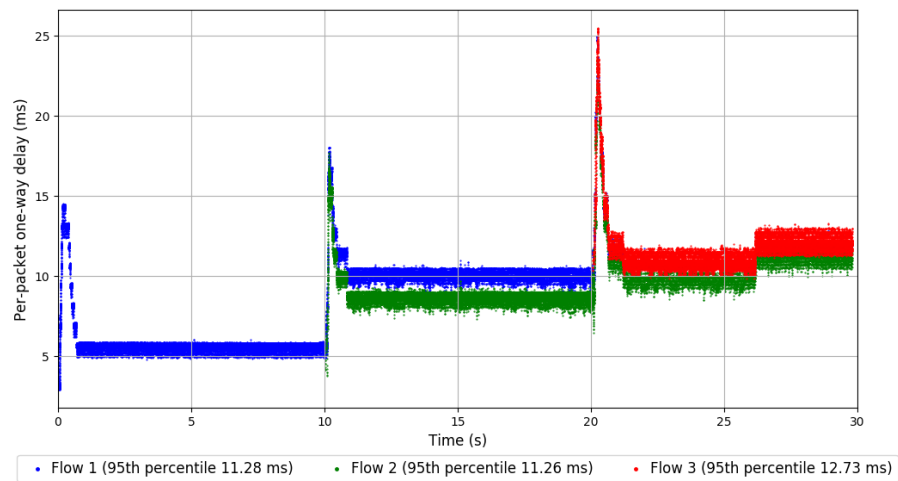
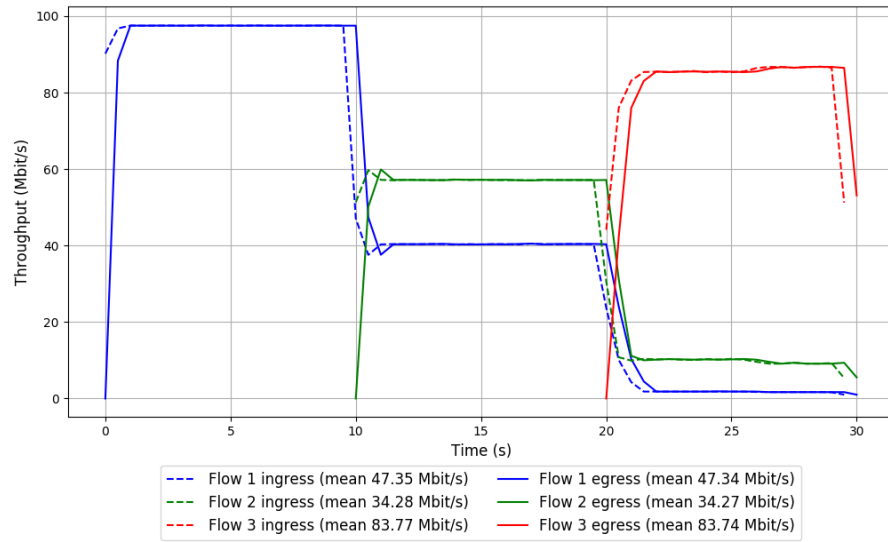


Run 1: Statistics of Indigo

Start at: 2018-12-02 04:49:01
End at: 2018-12-02 04:49:31
Local clock offset: -2.202 ms
Remote clock offset: -0.231 ms

Below is generated by plot.py at 2018-12-02 06:36:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 12.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.34 Mbit/s
95th percentile per-packet one-way delay: 11.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.27 Mbit/s
95th percentile per-packet one-way delay: 11.256 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.74 Mbit/s
95th percentile per-packet one-way delay: 12.730 ms
Loss rate: 0.02%

Run 1: Report of Indigo — Data Link

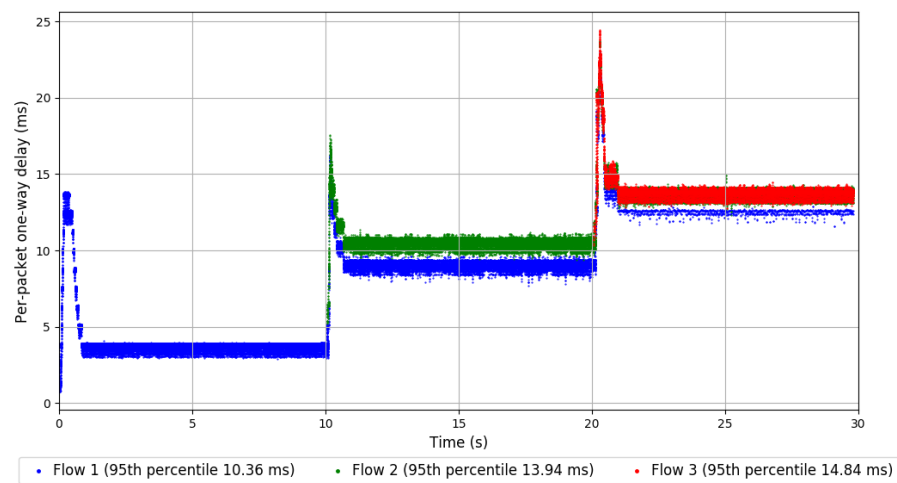
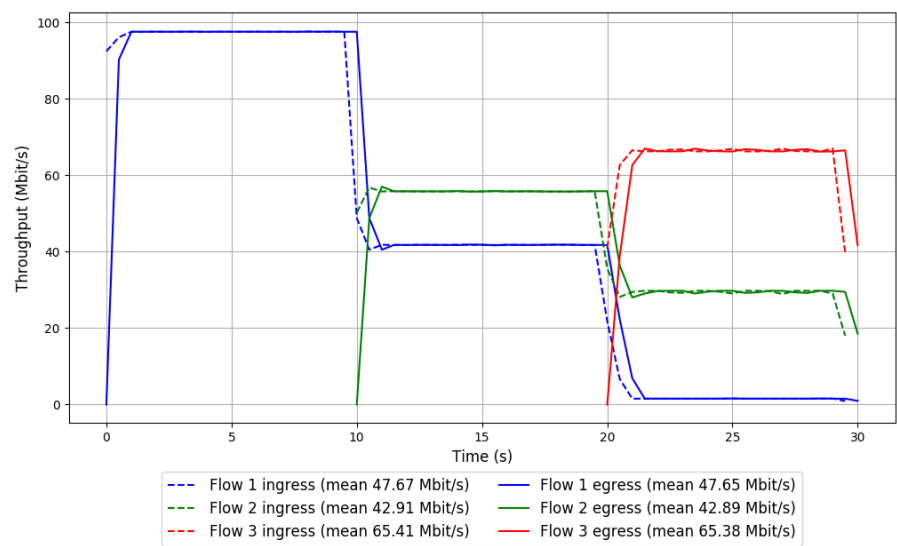


Run 2: Statistics of Indigo

Start at: 2018-12-02 05:10:34
End at: 2018-12-02 05:11:04
Local clock offset: -2.684 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-12-02 06:36:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 13.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 10.364 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.89 Mbit/s
95th percentile per-packet one-way delay: 13.939 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.38 Mbit/s
95th percentile per-packet one-way delay: 14.843 ms
Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-12-02 05:32:07

End at: 2018-12-02 05:32:37

Local clock offset: 1.392 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-12-02 06:36:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 12.578 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 11.168 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 12.868 ms

Loss rate: 0.00%

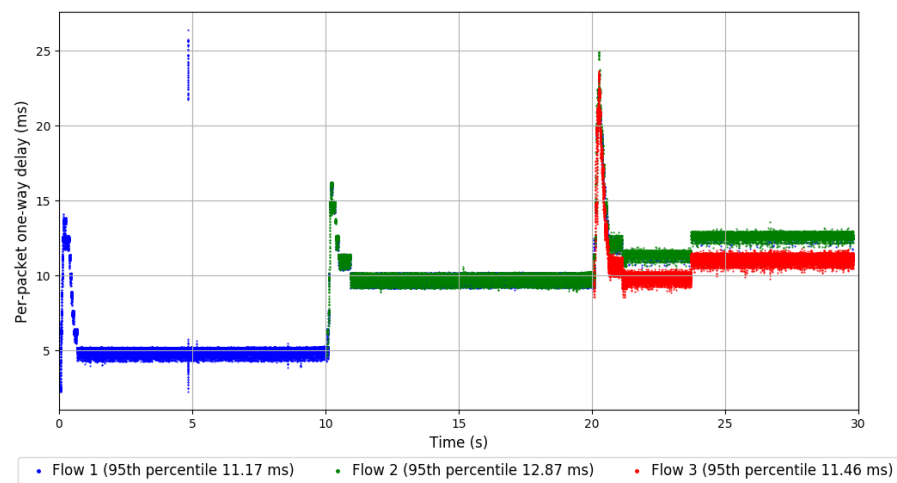
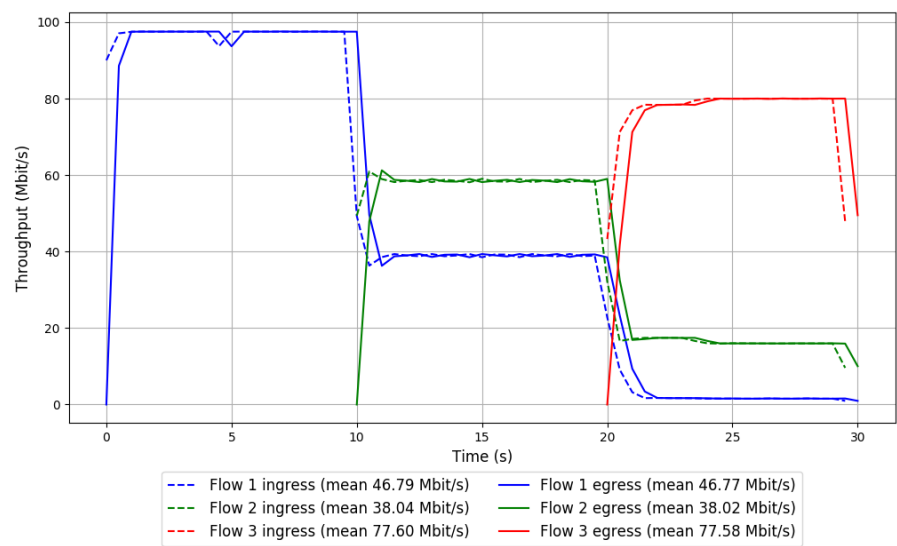
-- Flow 3:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 11.457 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-12-02 05:53:39

End at: 2018-12-02 05:54:09

Local clock offset: -0.648 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-12-02 06:36:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 15.064 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 11.790 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 13.836 ms

Loss rate: 0.00%

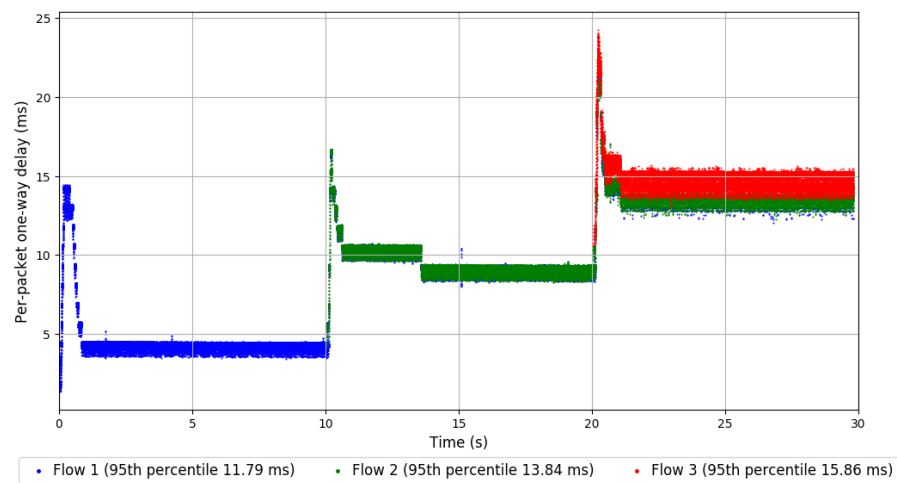
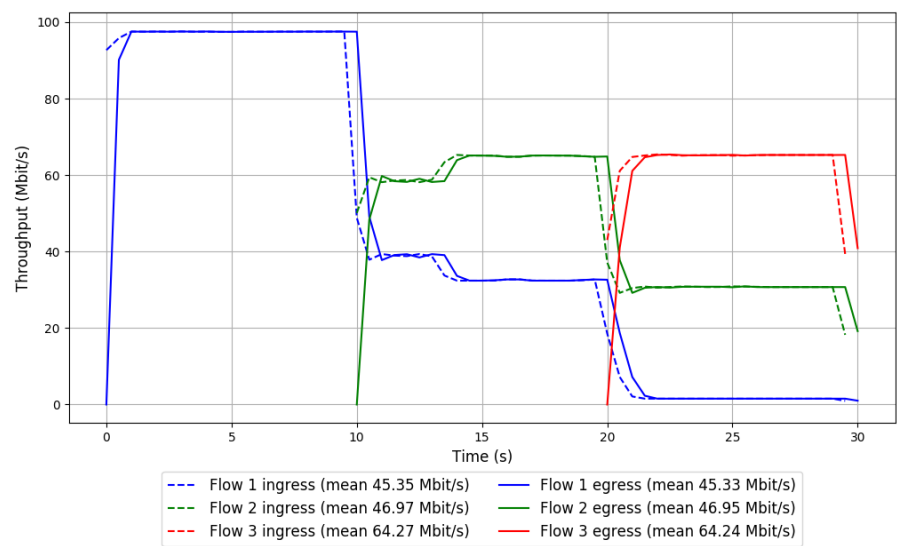
-- Flow 3:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 15.859 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-12-02 06:15:13

End at: 2018-12-02 06:15:43

Local clock offset: -3.055 ms

Remote clock offset: 0.598 ms

Below is generated by plot.py at 2018-12-02 06:36:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 13.599 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 11.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 12.352 ms

Loss rate: 0.00%

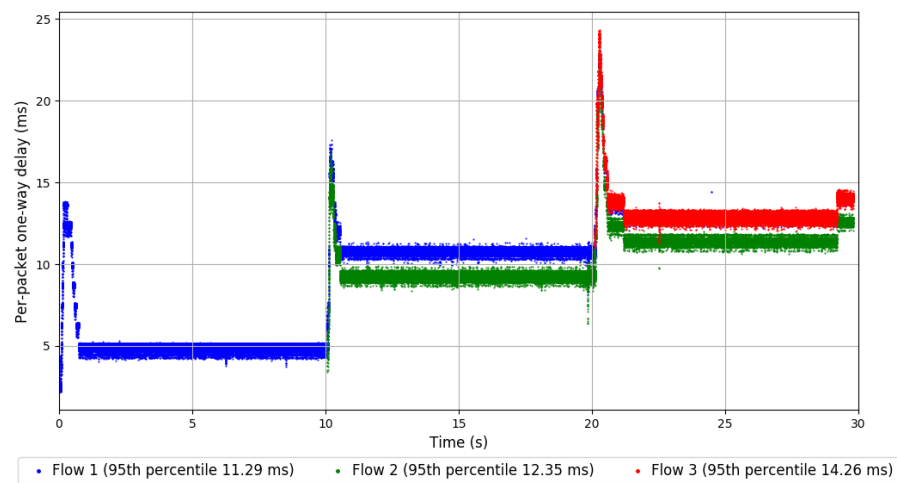
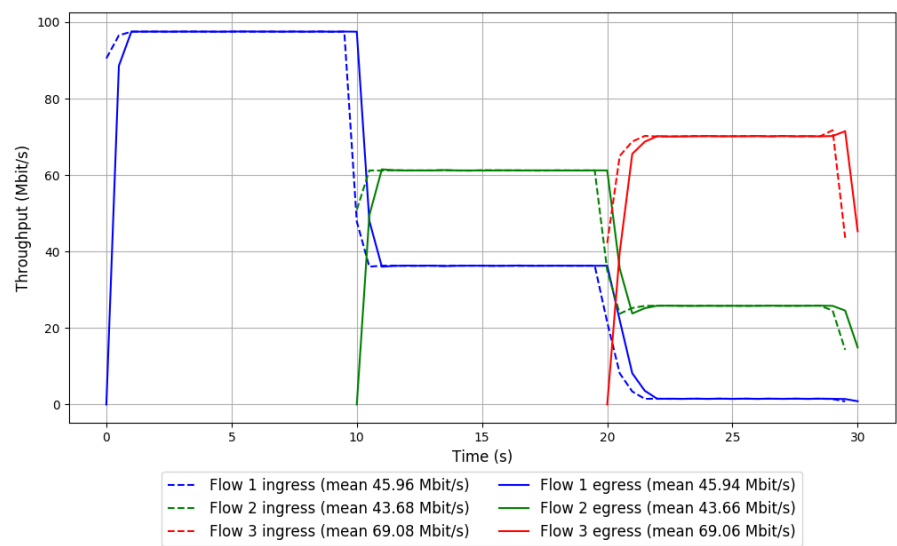
-- Flow 3:

Average throughput: 69.06 Mbit/s

95th percentile per-packet one-way delay: 14.259 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link

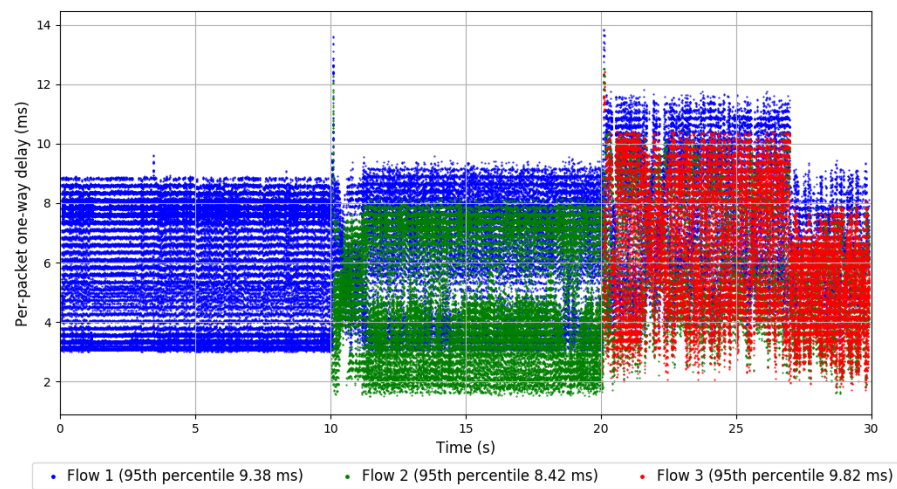
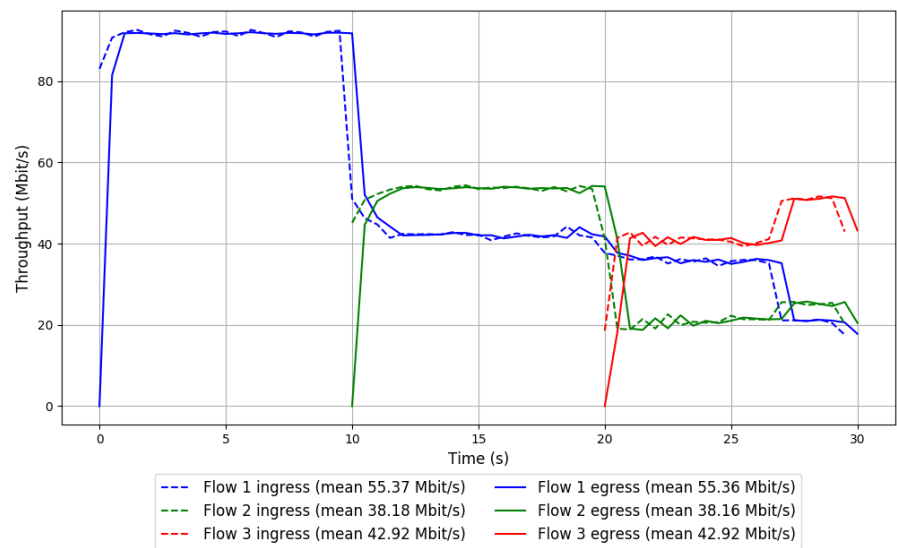


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:03:51
End at: 2018-12-02 05:04:21
Local clock offset: -3.331 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-12-02 06:36:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 9.357 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 9.383 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 8.422 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 9.819 ms
Loss rate: 0.00%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:25:24

End at: 2018-12-02 05:25:54

Local clock offset: -0.692 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-12-02 06:37:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 20.929 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.11 Mbit/s

95th percentile per-packet one-way delay: 19.293 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.07 Mbit/s

95th percentile per-packet one-way delay: 20.770 ms

Loss rate: 0.00%

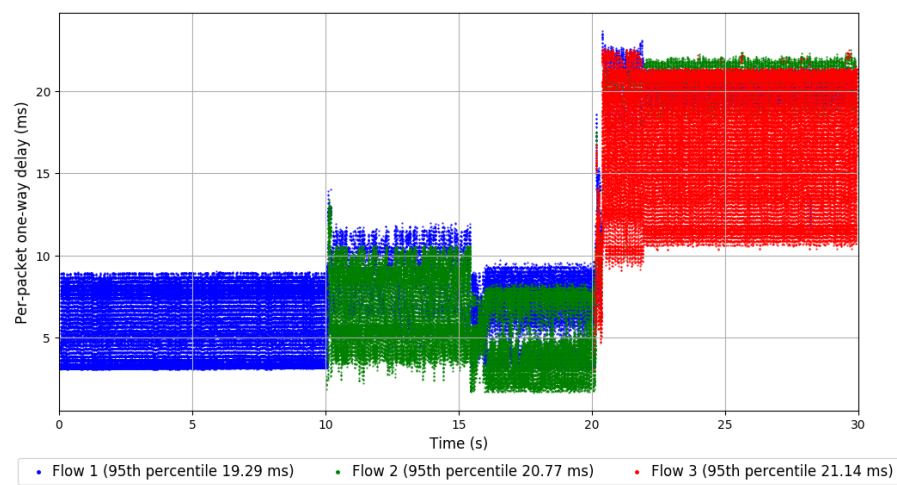
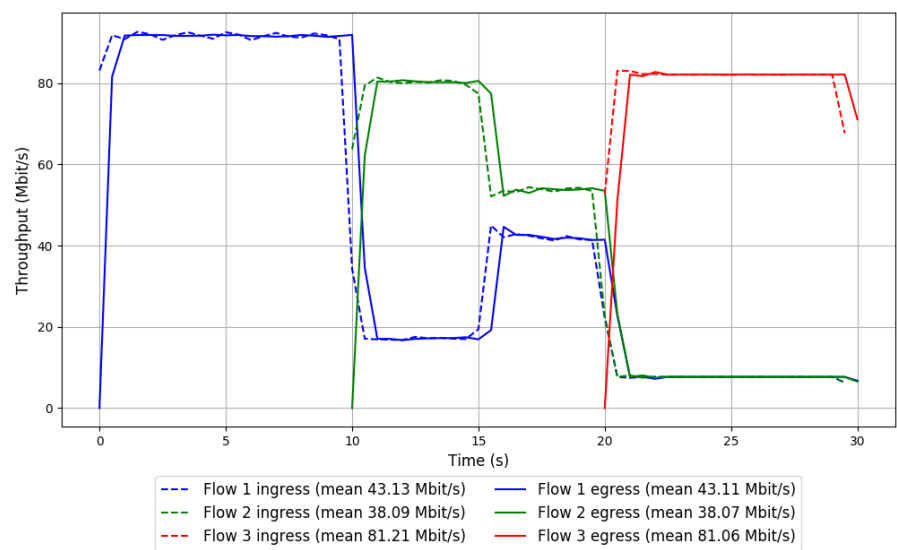
-- Flow 3:

Average throughput: 81.06 Mbit/s

95th percentile per-packet one-way delay: 21.139 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:46:56

End at: 2018-12-02 05:47:26

Local clock offset: 2.983 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-12-02 06:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 12.912 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 10.513 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 13.115 ms

Loss rate: 0.00%

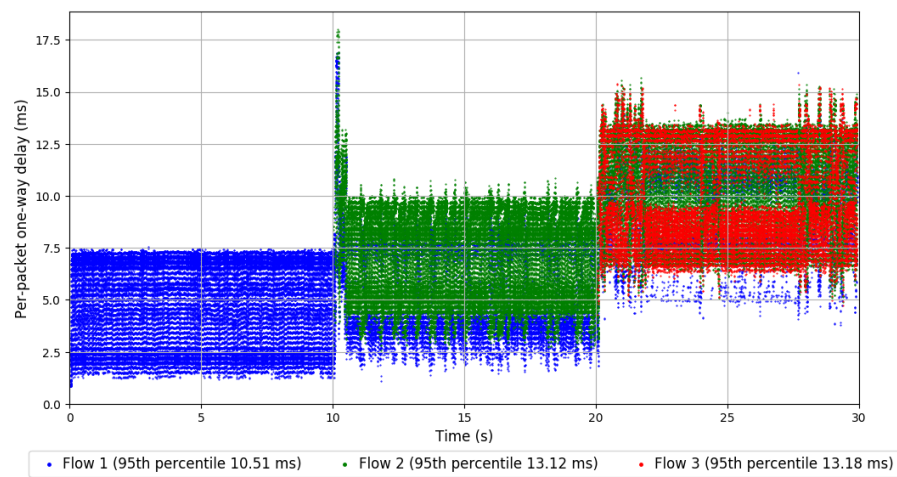
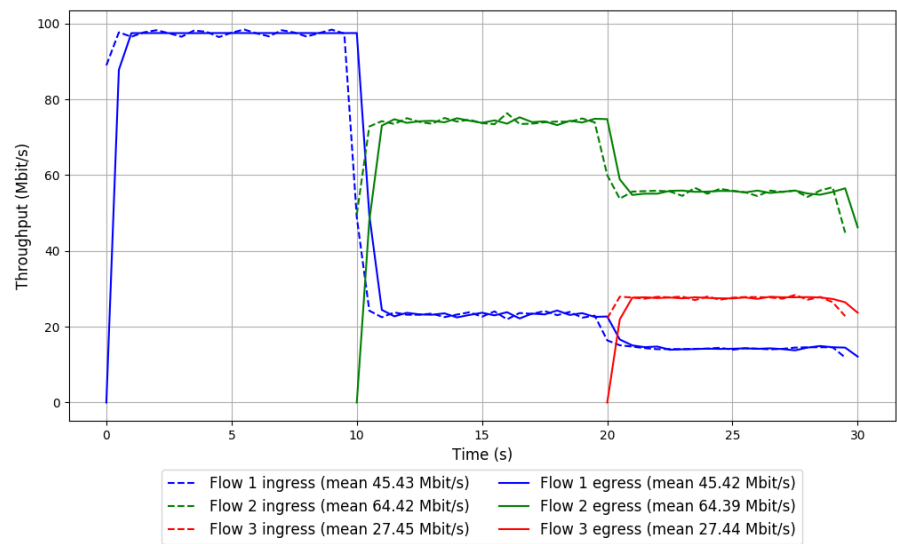
-- Flow 3:

Average throughput: 27.44 Mbit/s

95th percentile per-packet one-way delay: 13.181 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:08:30

End at: 2018-12-02 06:09:00

Local clock offset: -2.614 ms

Remote clock offset: 0.472 ms

Below is generated by plot.py at 2018-12-02 06:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 11.894 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.33 Mbit/s

95th percentile per-packet one-way delay: 11.539 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 11.204 ms

Loss rate: 0.00%

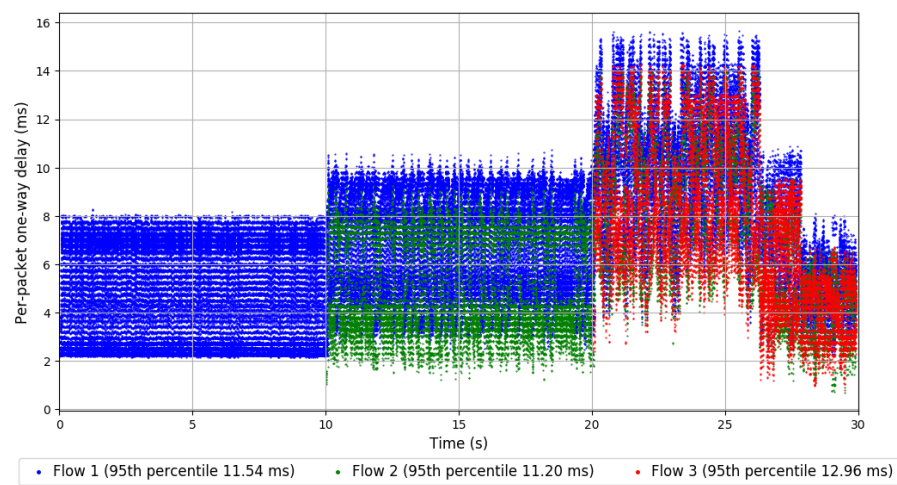
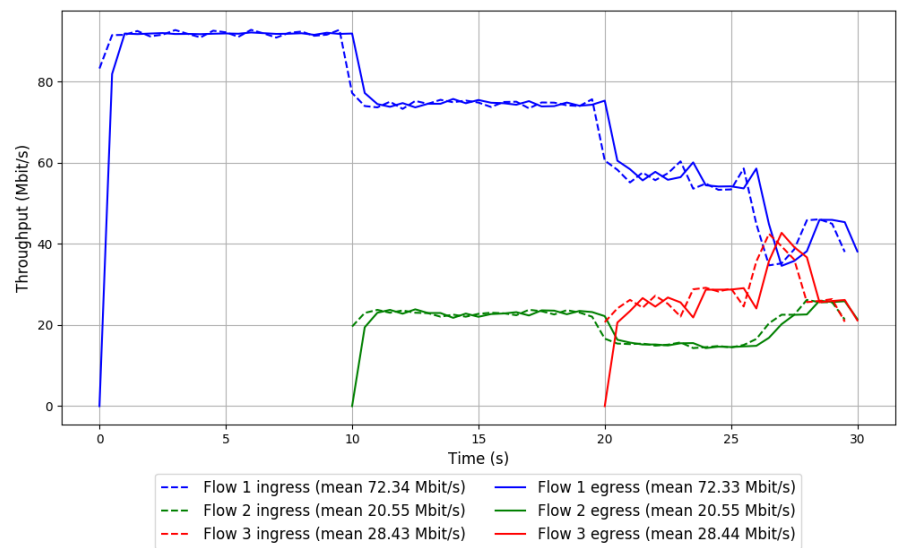
-- Flow 3:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 12.961 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:30:04

End at: 2018-12-02 06:30:34

Local clock offset: -2.912 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-12-02 06:37:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 20.205 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.17 Mbit/s

95th percentile per-packet one-way delay: 12.745 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 18.888 ms

Loss rate: 0.00%

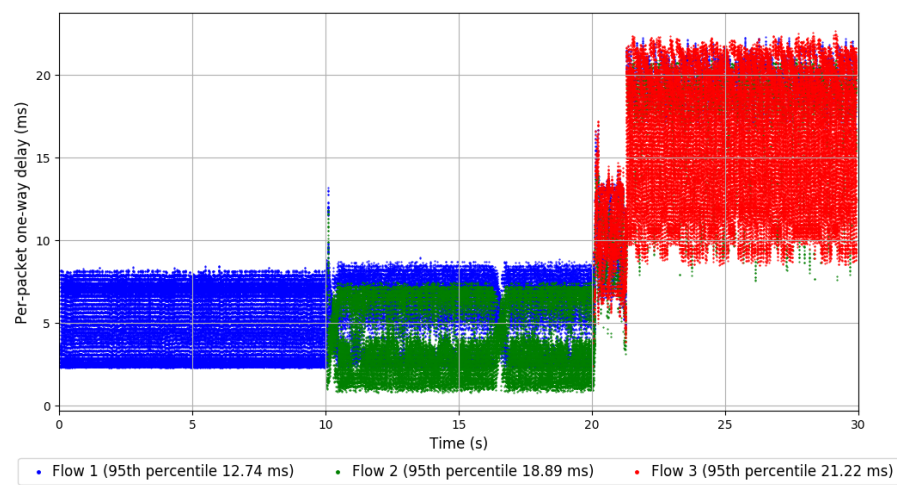
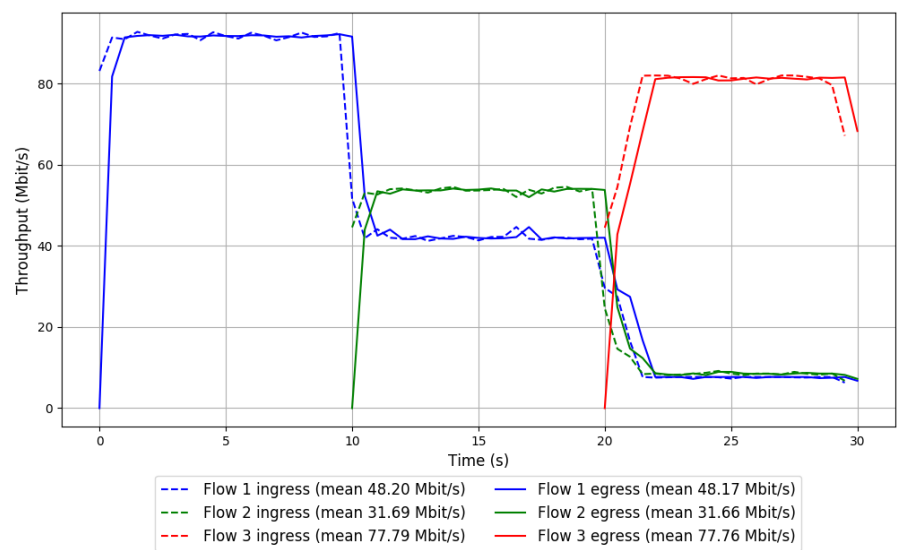
-- Flow 3:

Average throughput: 77.76 Mbit/s

95th percentile per-packet one-way delay: 21.218 ms

Loss rate: 0.02%

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

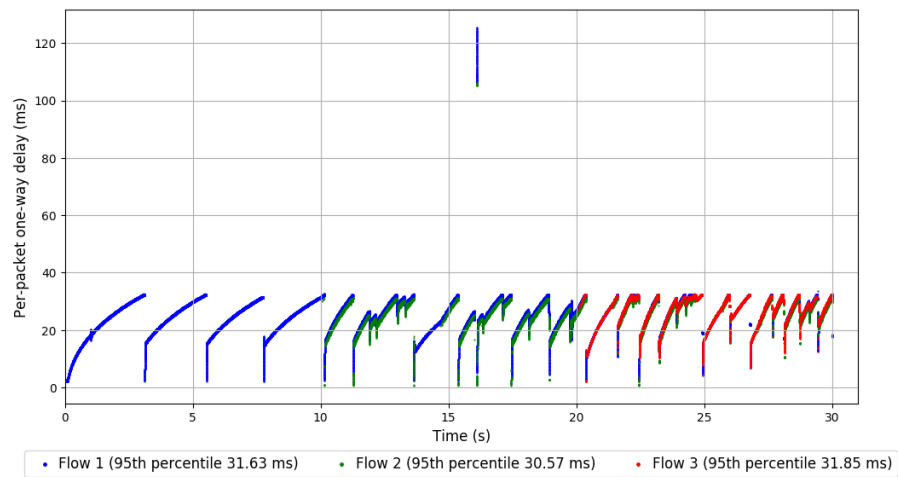
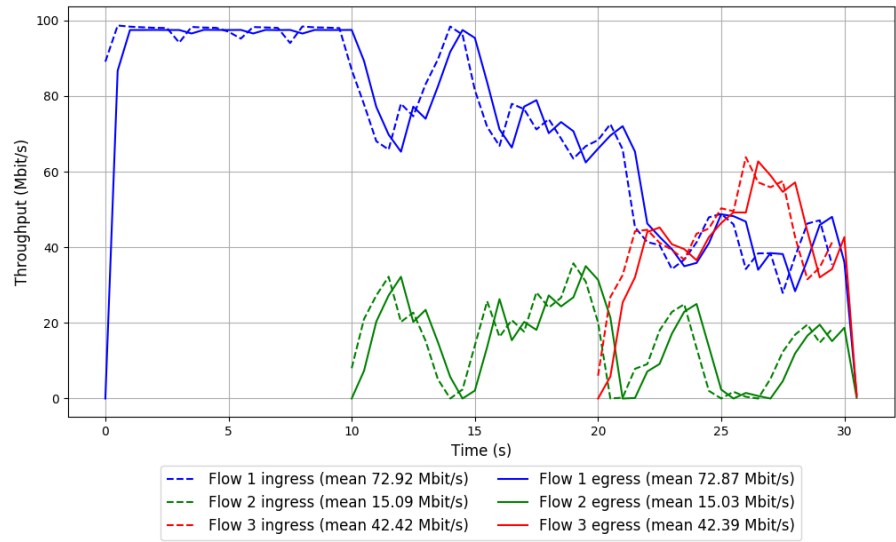


```
Run 1: Statistics of LEDBAT

Start at: 2018-12-02 05:02:40
End at: 2018-12-02 05:03:10
Local clock offset: -2.558 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-12-02 06:37:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 31.626 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 72.87 Mbit/s
95th percentile per-packet one-way delay: 31.632 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 30.573 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 42.39 Mbit/s
95th percentile per-packet one-way delay: 31.848 ms
Loss rate: 0.04%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-12-02 05:24:13

End at: 2018-12-02 05:24:43

Local clock offset: -1.08 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-12-02 06:37:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 32.735 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 31.708 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 53.52 Mbit/s

95th percentile per-packet one-way delay: 33.035 ms

Loss rate: 0.02%

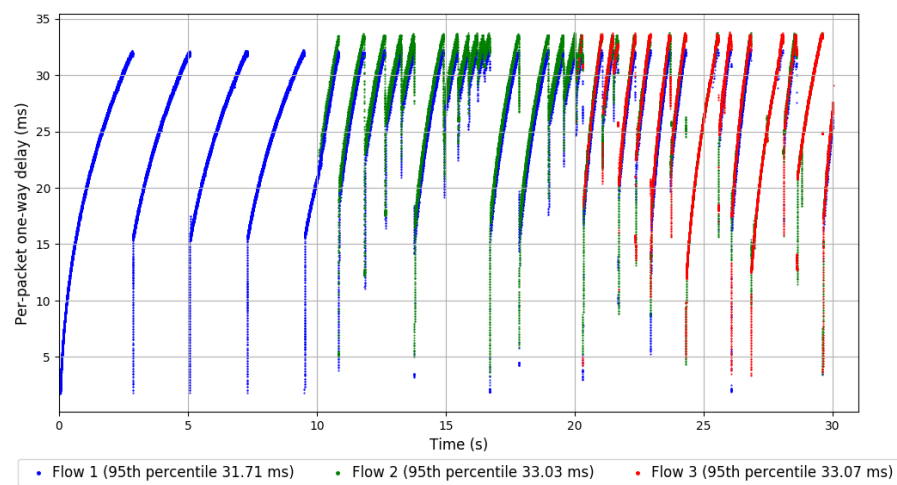
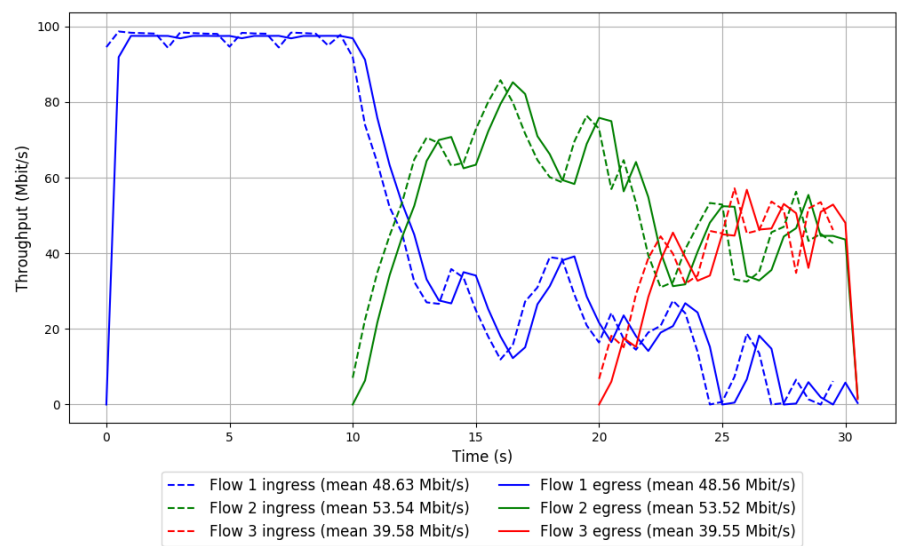
-- Flow 3:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 33.074 ms

Loss rate: 0.06%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-12-02 05:45:45

End at: 2018-12-02 05:46:15

Local clock offset: 2.862 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-12-02 06:37:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 31.985 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 32.001 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 30.769 ms

Loss rate: 0.19%

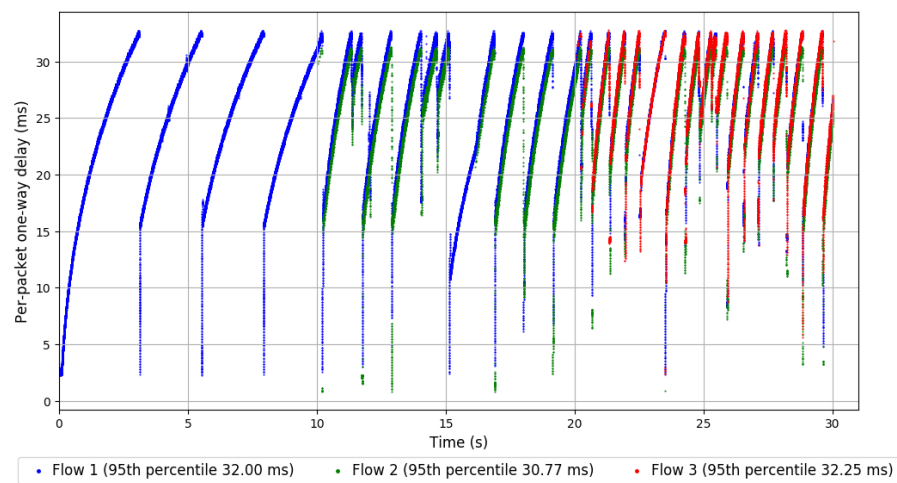
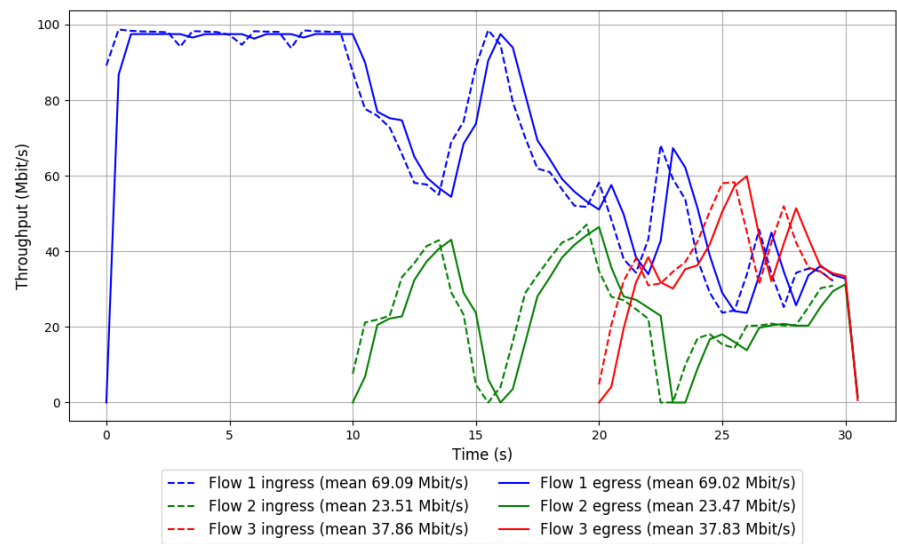
-- Flow 3:

Average throughput: 37.83 Mbit/s

95th percentile per-packet one-way delay: 32.247 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-12-02 06:07:19

End at: 2018-12-02 06:07:49

Local clock offset: -2.522 ms

Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-12-02 06:37:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 32.044 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 31.868 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 32.077 ms

Loss rate: 0.06%

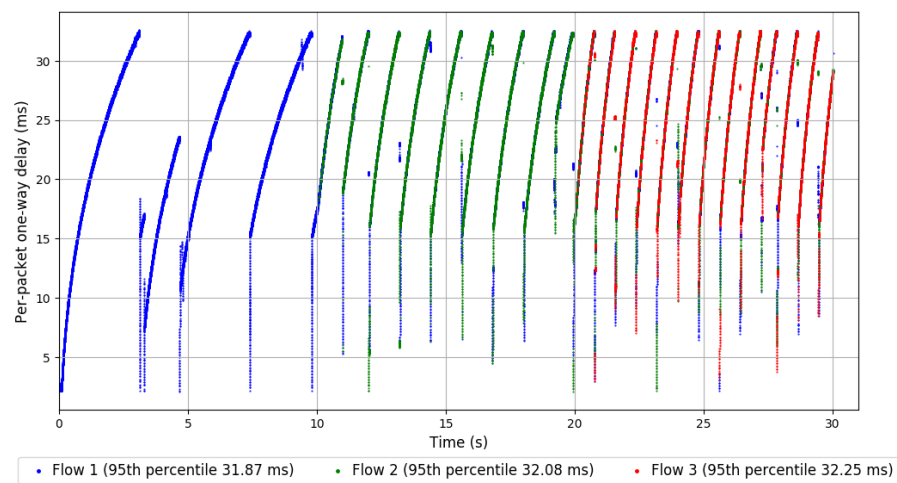
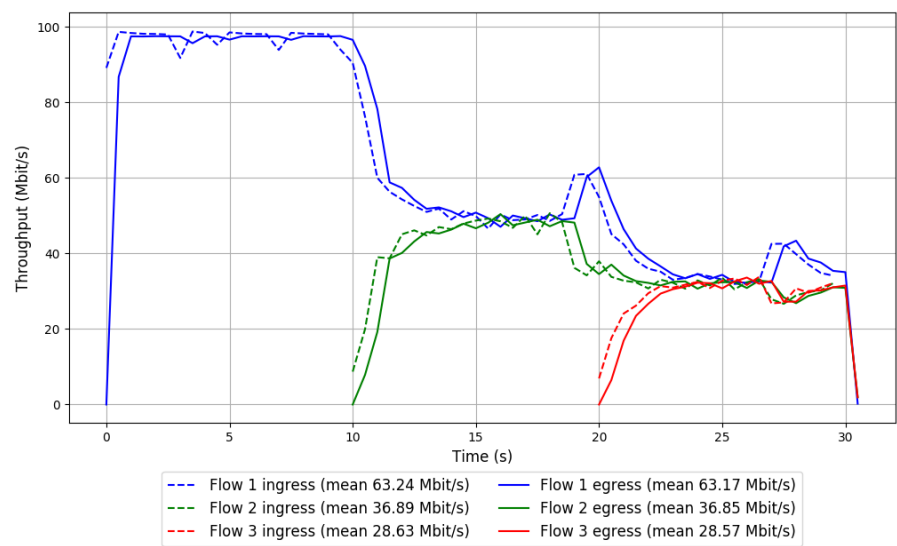
-- Flow 3:

Average throughput: 28.57 Mbit/s

95th percentile per-packet one-way delay: 32.246 ms

Loss rate: 0.09%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-02 06:28:53

End at: 2018-12-02 06:29:23

Local clock offset: -2.883 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-12-02 06:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.94 Mbit/s

95th percentile per-packet one-way delay: 30.933 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 29.485 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 51.23 Mbit/s

95th percentile per-packet one-way delay: 31.897 ms

Loss rate: 0.03%

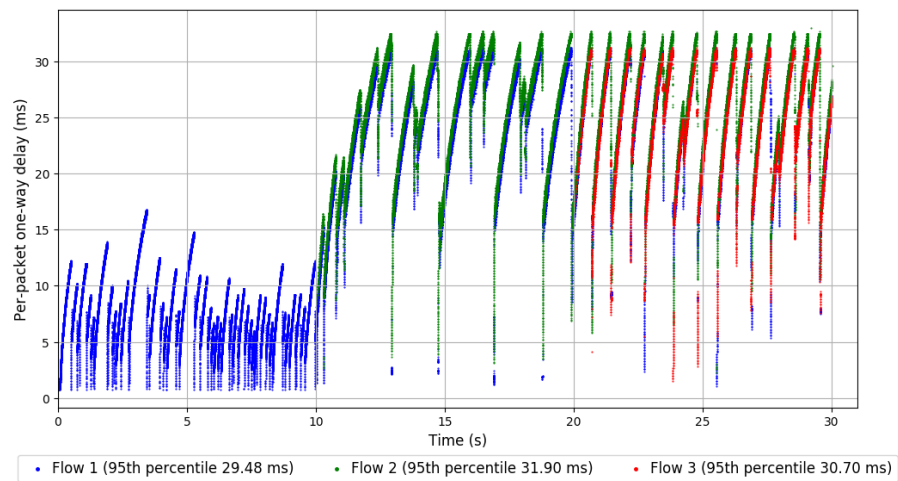
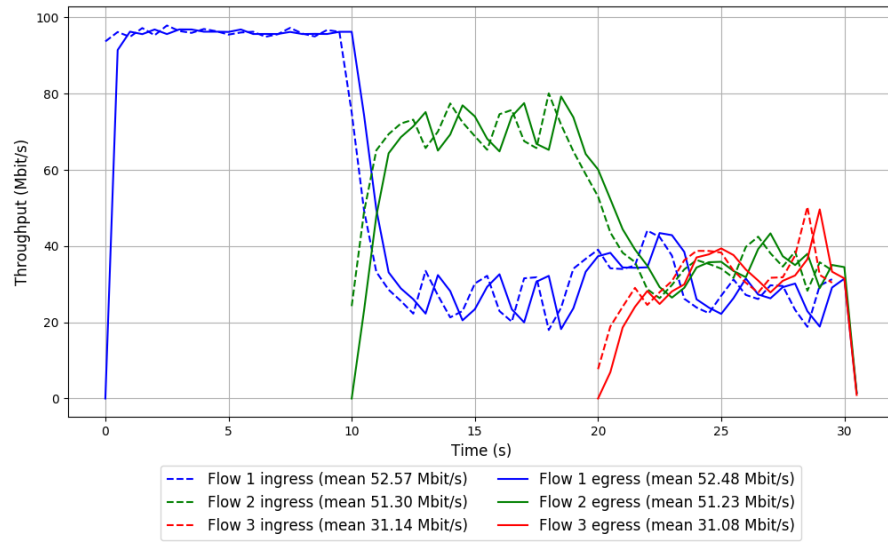
-- Flow 3:

Average throughput: 31.08 Mbit/s

95th percentile per-packet one-way delay: 30.703 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link

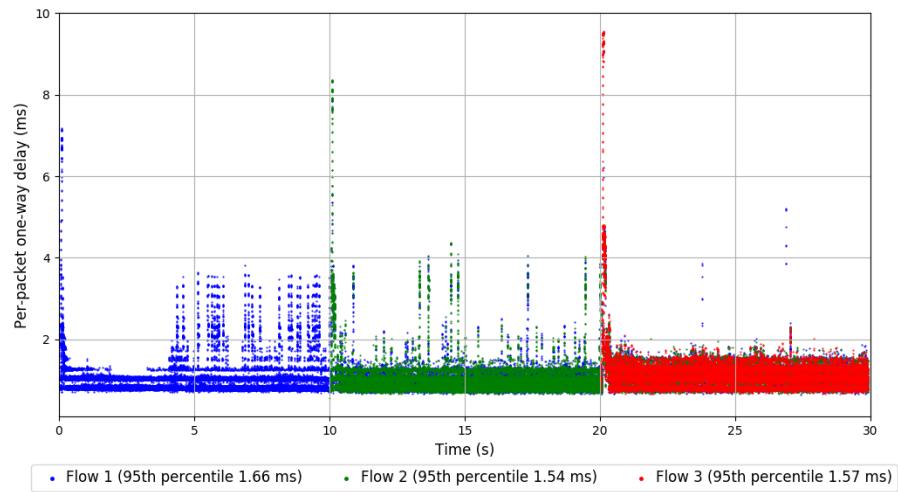
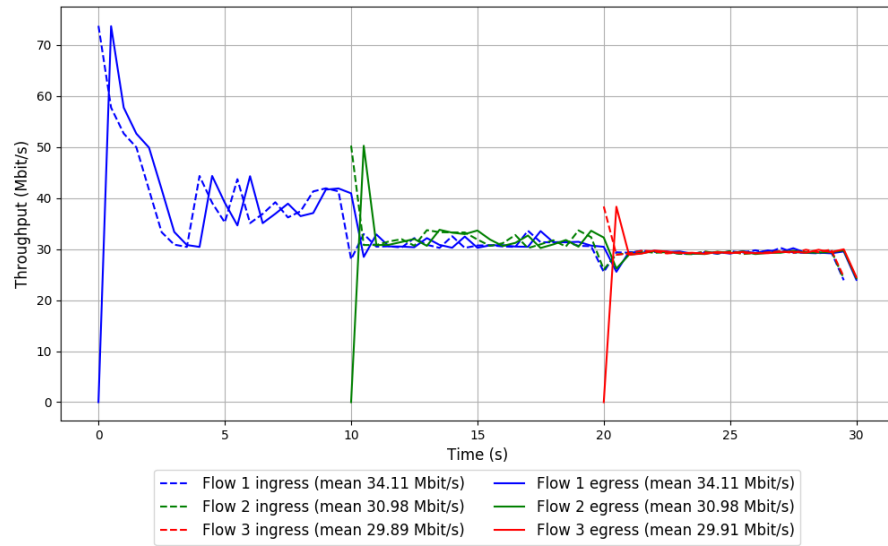



```
Run 1: Statistics of Indigo-Muses

Start at: 2018-12-02 04:57:01
End at: 2018-12-02 04:57:31
Local clock offset: -2.335 ms
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-12-02 06:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.62 Mbit/s
95th percentile per-packet one-way delay: 1.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.11 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 1.539 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 1.574 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-Muses — Data Link



Run 2: Statistics of Indigo-Muses

Start at: 2018-12-02 05:18:35

End at: 2018-12-02 05:19:05

Local clock offset: -2.501 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-12-02 06:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 3.260 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 3.375 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 2.050 ms

Loss rate: 0.00%

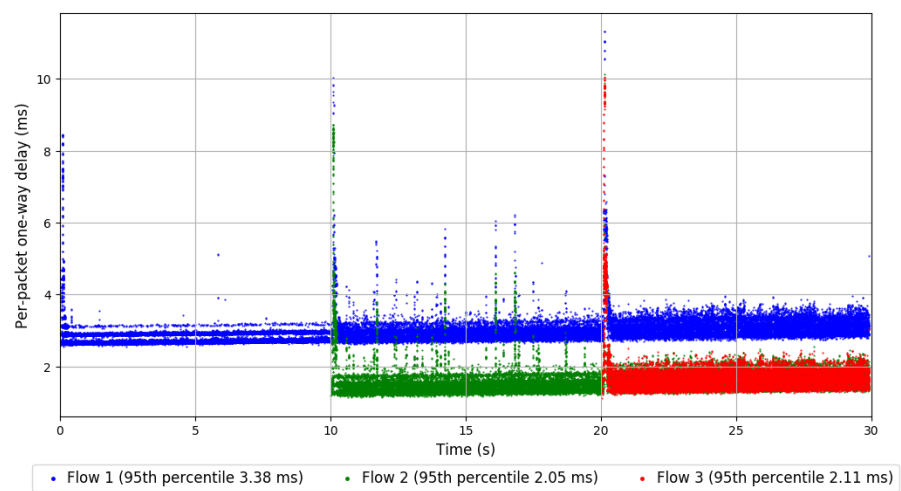
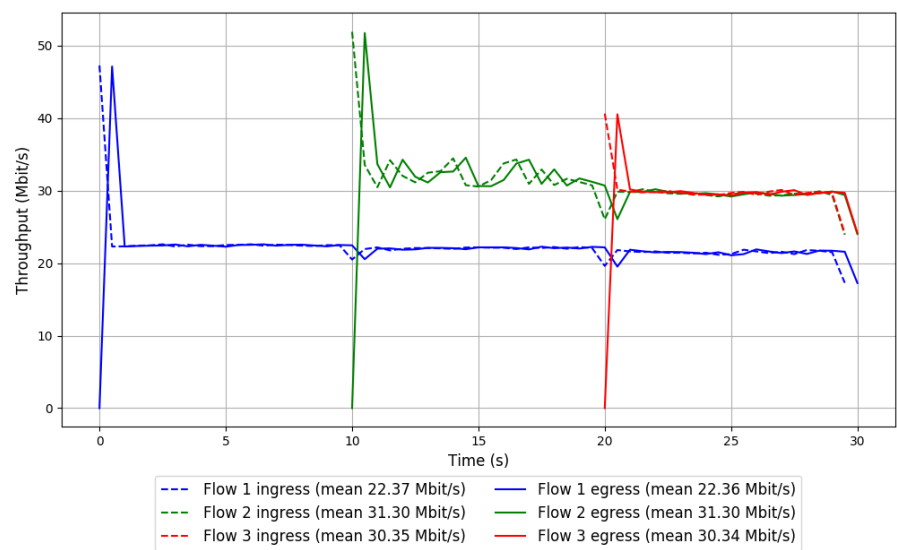
-- Flow 3:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 2.110 ms

Loss rate: 0.00%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-12-02 05:40:07

End at: 2018-12-02 05:40:37

Local clock offset: 2.378 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2018-12-02 06:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 2.809 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 2.895 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 1.667 ms

Loss rate: 0.00%

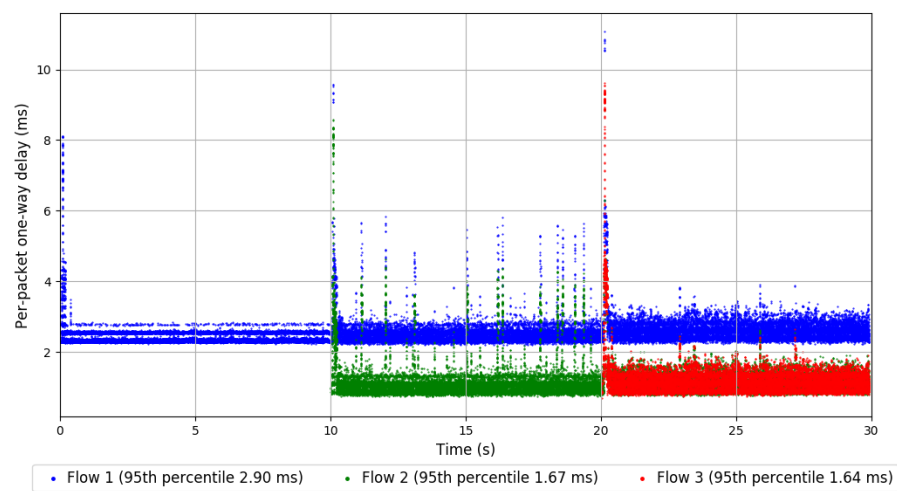
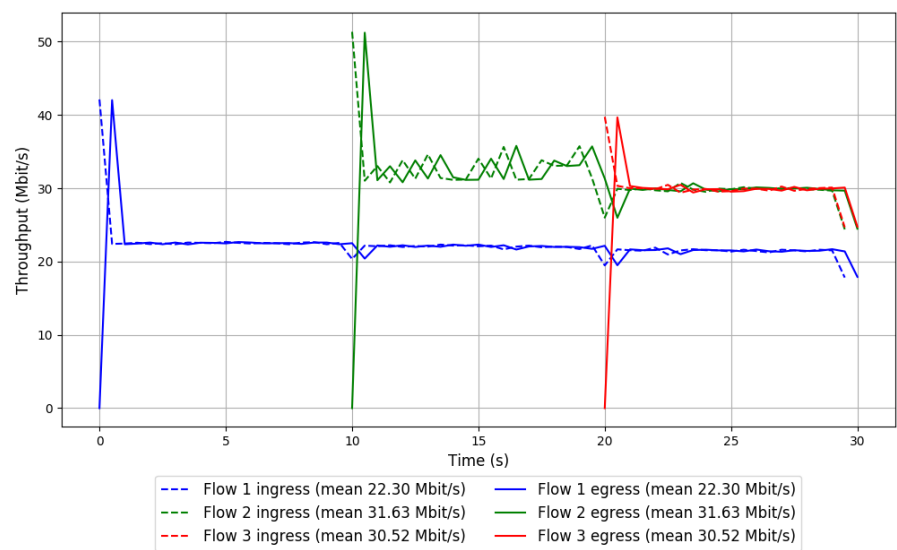
-- Flow 3:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 1.637 ms

Loss rate: 0.00%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-12-02 06:01:40

End at: 2018-12-02 06:02:10

Local clock offset: -2.603 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-12-02 06:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 3.441 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 3.460 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 2.183 ms

Loss rate: 0.00%

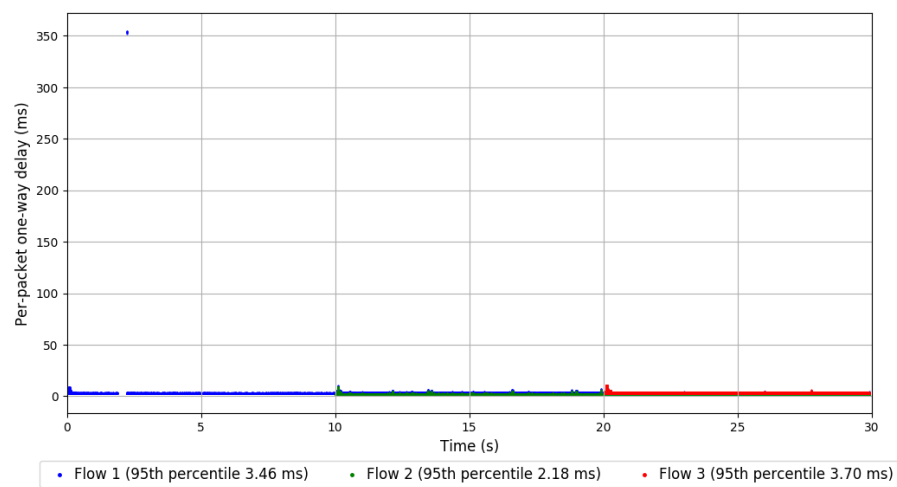
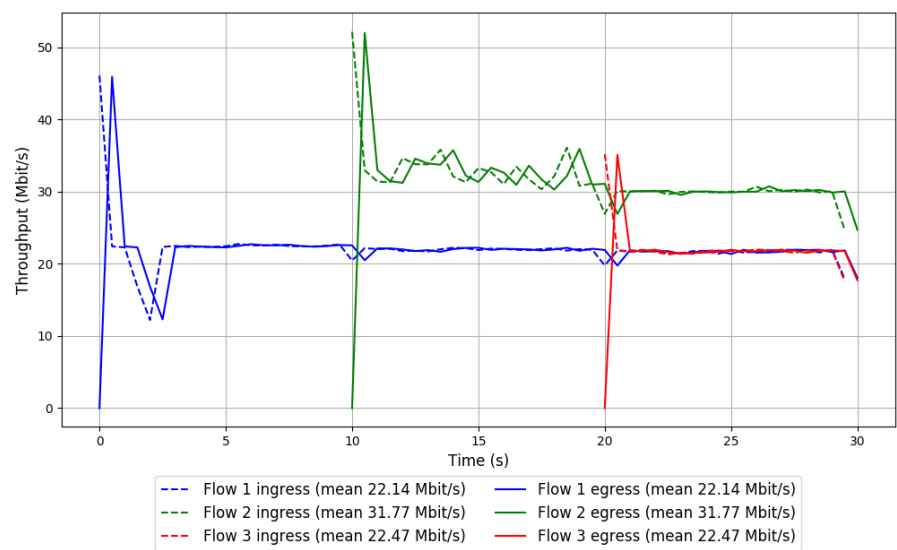
-- Flow 3:

Average throughput: 22.47 Mbit/s

95th percentile per-packet one-way delay: 3.703 ms

Loss rate: 0.01%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-12-02 06:23:13

End at: 2018-12-02 06:23:43

Local clock offset: -2.959 ms

Remote clock offset: 0.482 ms

Below is generated by plot.py at 2018-12-02 06:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 2.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 2.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 1.558 ms

Loss rate: 0.00%

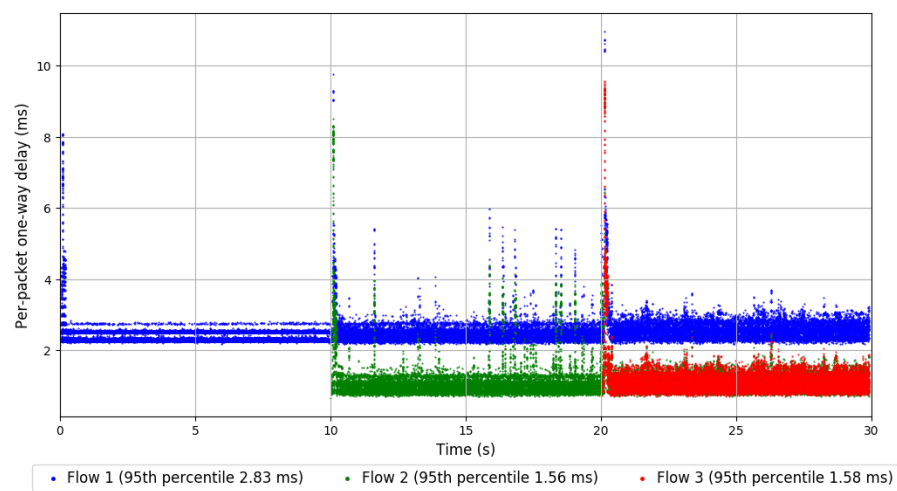
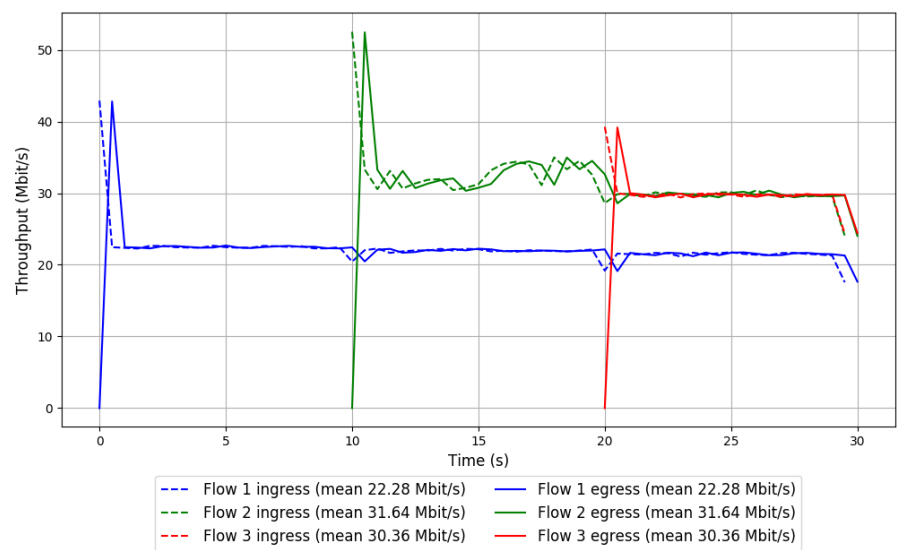
-- Flow 3:

Average throughput: 30.36 Mbit/s

95th percentile per-packet one-way delay: 1.582 ms

Loss rate: 0.00%

Run 5: Report of Indigo-Muses — Data Link

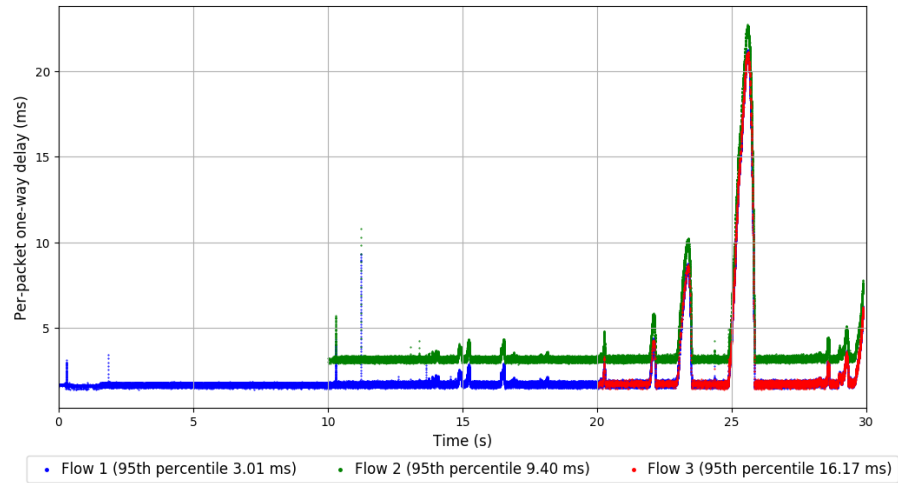
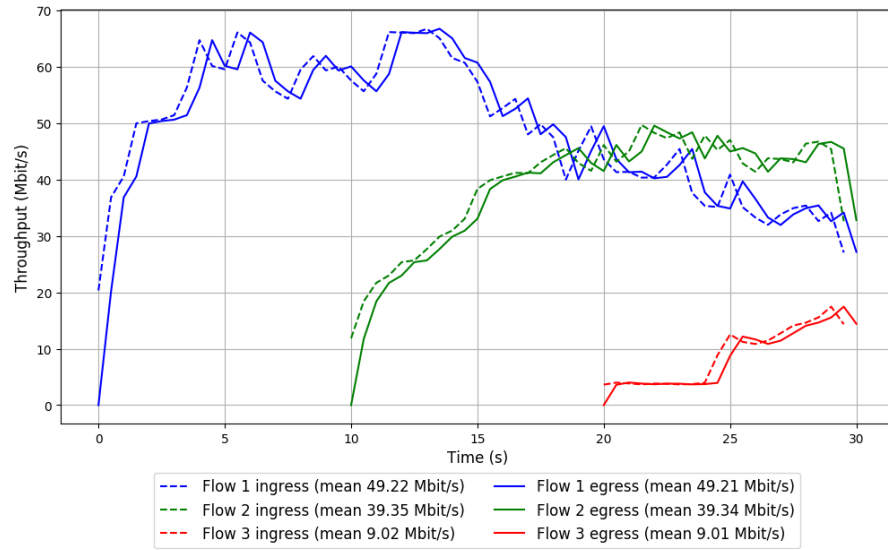


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-02 04:43:27
End at: 2018-12-02 04:43:57
Local clock offset: -2.14 ms
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2018-12-02 06:38:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.35 Mbit/s
95th percentile per-packet one-way delay: 5.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 3.012 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 9.403 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.01 Mbit/s
95th percentile per-packet one-way delay: 16.166 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

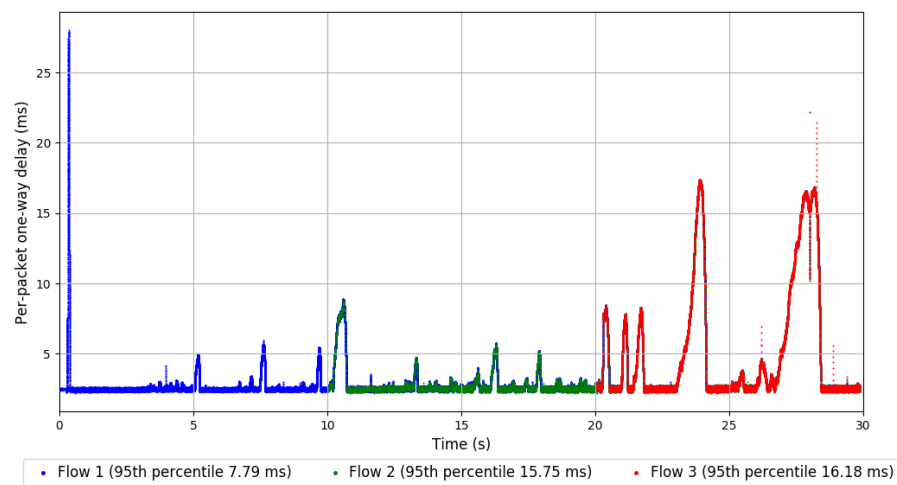
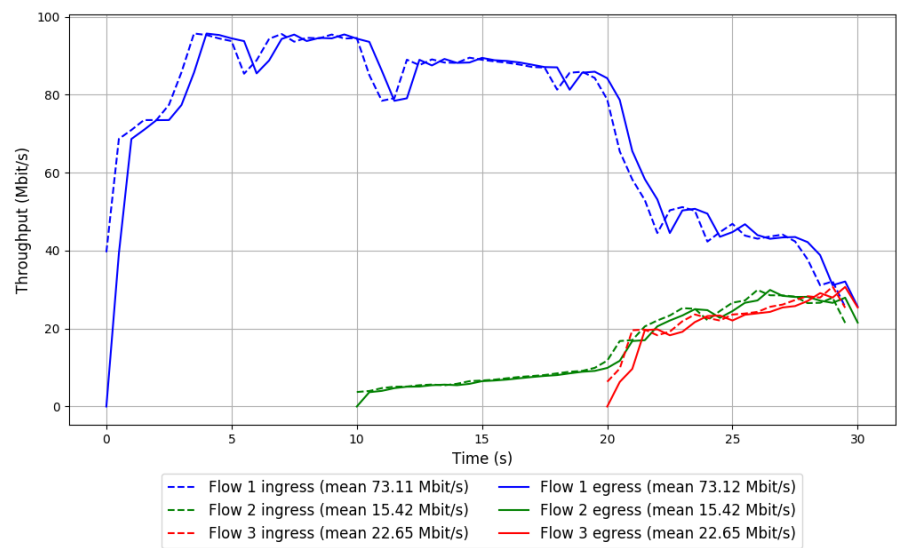


Run 2: Statistics of PCC-Allegro

Start at: 2018-12-02 05:05:00
End at: 2018-12-02 05:05:30
Local clock offset: -2.671 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-12-02 06:39:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 11.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 7.790 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.42 Mbit/s
95th percentile per-packet one-way delay: 15.749 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 16.179 ms
Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-12-02 05:26:33

End at: 2018-12-02 05:27:03

Local clock offset: 0.335 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-12-02 06:39:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.19 Mbit/s

95th percentile per-packet one-way delay: 14.538 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 13.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 17.987 ms

Loss rate: 0.02%

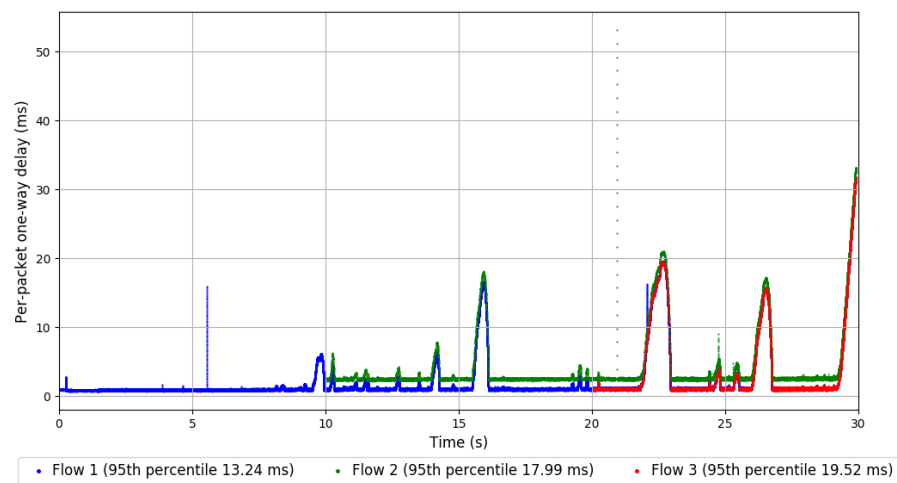
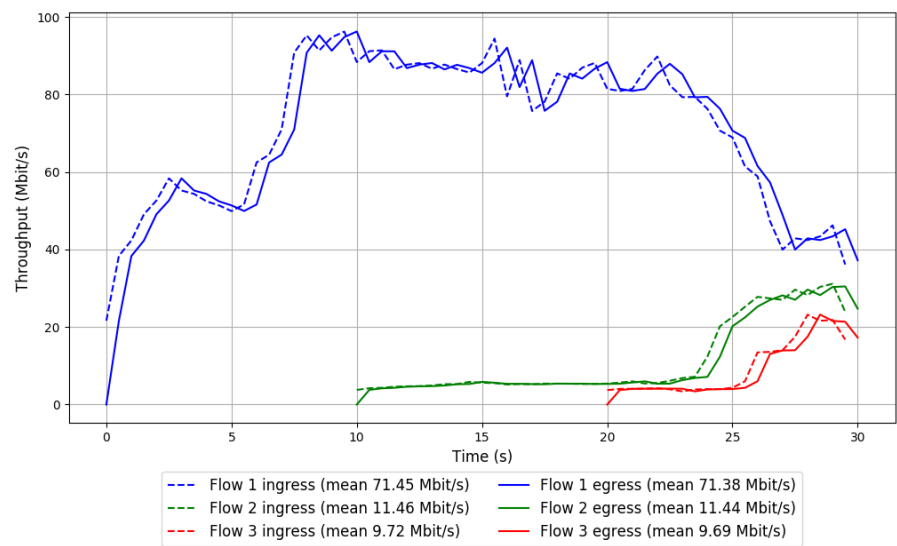
-- Flow 3:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 19.516 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-12-02 05:48:05

End at: 2018-12-02 05:48:35

Local clock offset: 2.29 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-12-02 06:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 16.398 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 9.748 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 22.338 ms

Loss rate: 0.00%

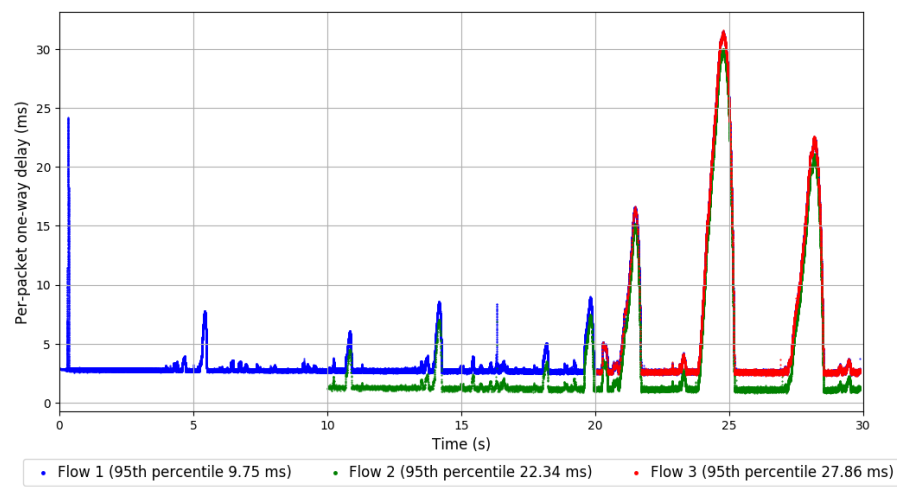
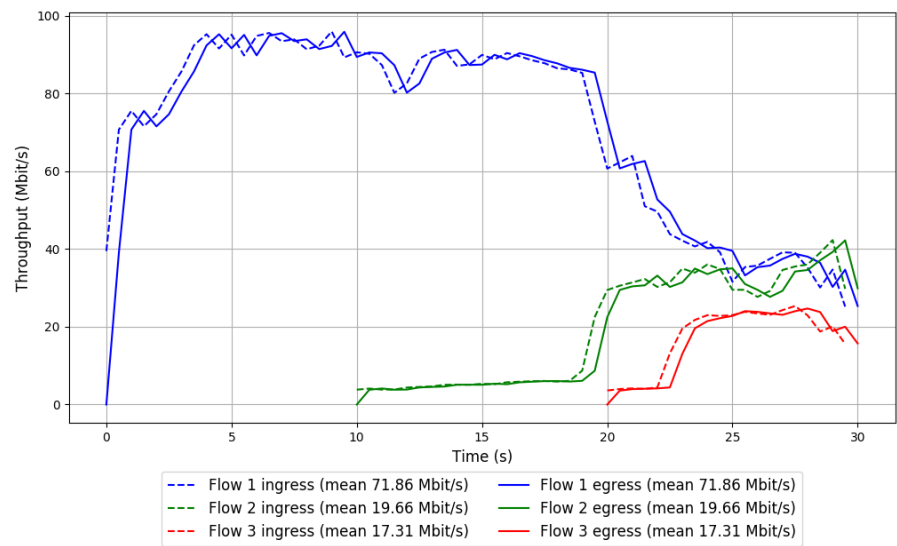
-- Flow 3:

Average throughput: 17.31 Mbit/s

95th percentile per-packet one-way delay: 27.858 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-12-02 06:09:39

End at: 2018-12-02 06:10:09

Local clock offset: -3.492 ms

Remote clock offset: 0.46 ms

Below is generated by plot.py at 2018-12-02 06:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 6.795 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 63.92 Mbit/s

95th percentile per-packet one-way delay: 6.989 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 6.076 ms

Loss rate: 0.09%

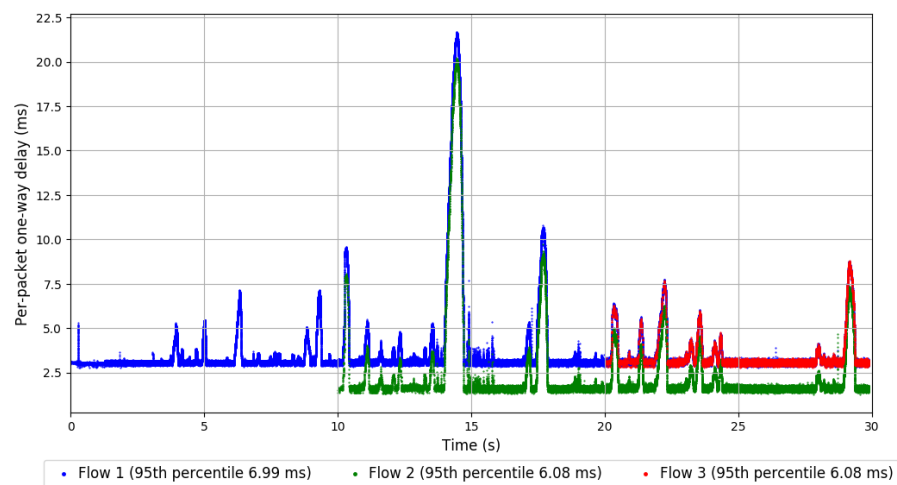
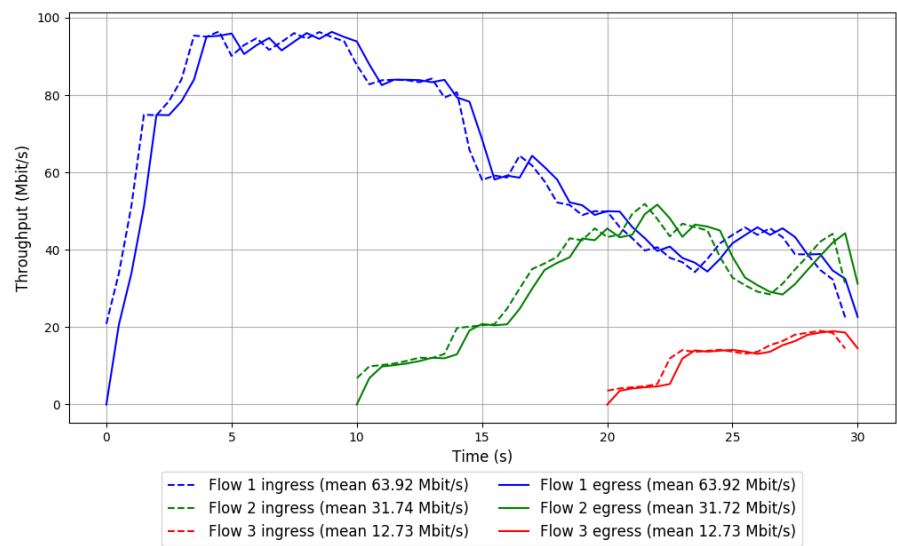
-- Flow 3:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 6.075 ms

Loss rate: 0.03%

Run 5: Report of PCC-Allegro — Data Link

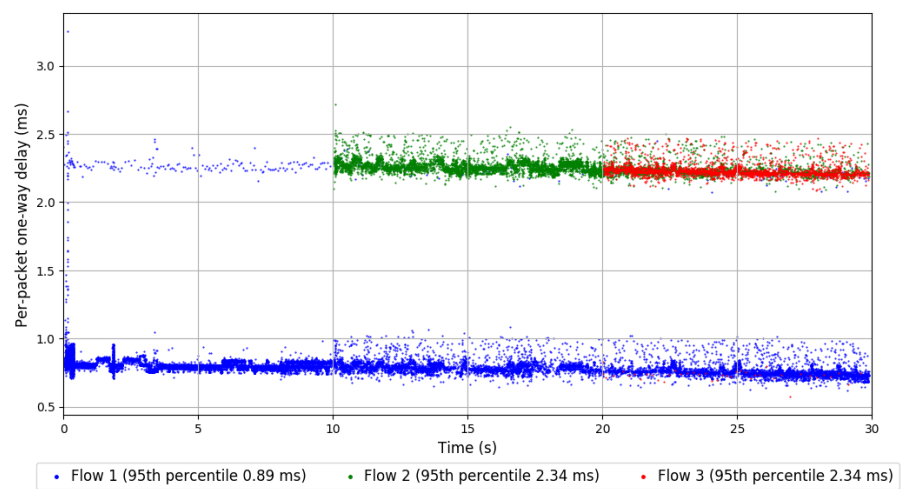
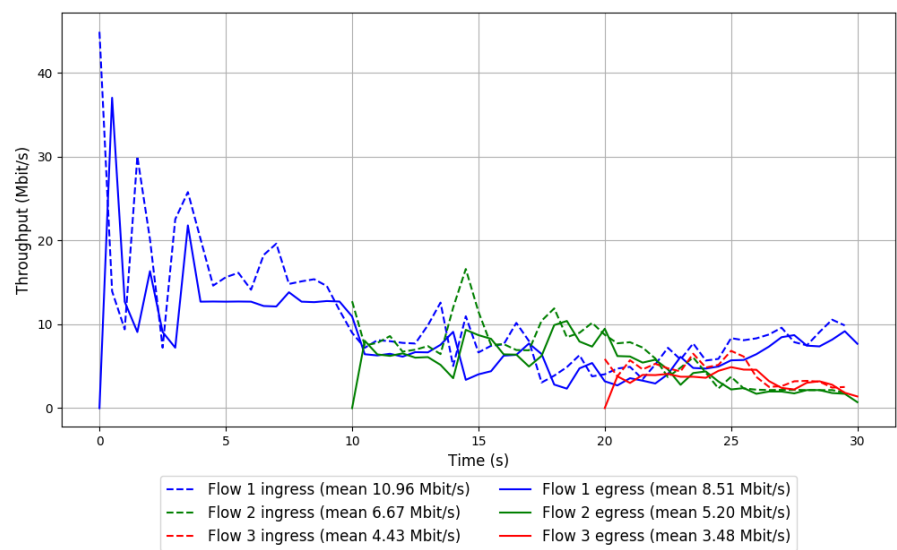


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-02 04:47:55
End at: 2018-12-02 04:48:25
Local clock offset: -1.316 ms
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2018-12-02 06:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 2.293 ms
Loss rate: 22.17%
-- Flow 1:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 0.891 ms
Loss rate: 22.34%
-- Flow 2:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 2.342 ms
Loss rate: 21.98%
-- Flow 3:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 2.341 ms
Loss rate: 21.54%
```

Run 1: Report of PCC-Expr — Data Link

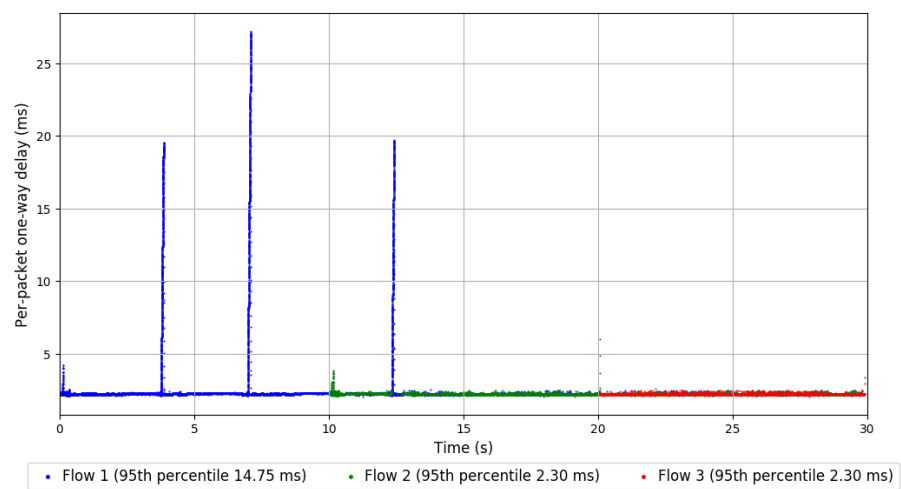
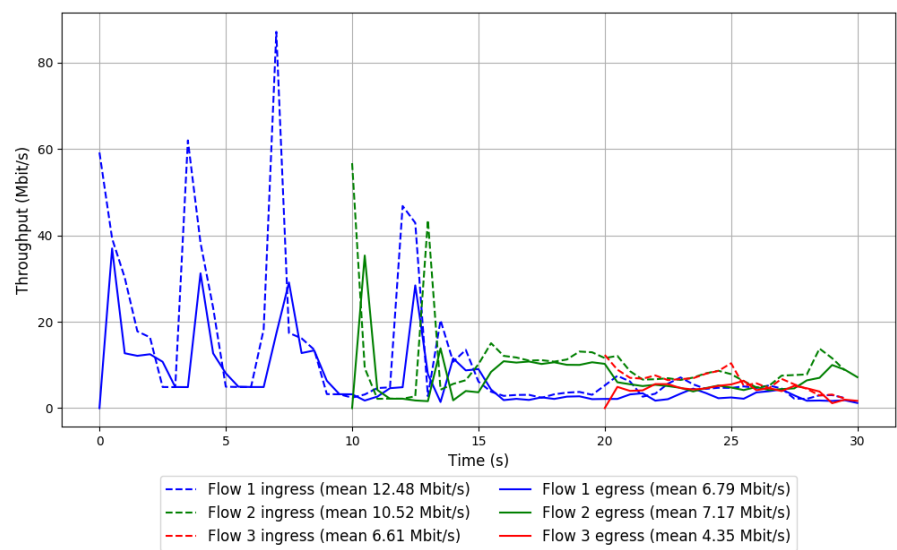


Run 2: Statistics of PCC-Expr

Start at: 2018-12-02 05:09:28
End at: 2018-12-02 05:09:58
Local clock offset: -2.661 ms
Remote clock offset: -0.171 ms

Below is generated by plot.py at 2018-12-02 06:39:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 8.134 ms
Loss rate: 40.00%
-- Flow 1:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 14.748 ms
Loss rate: 45.58%
-- Flow 2:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 31.86%
-- Flow 3:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 34.20%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-12-02 05:31:01

End at: 2018-12-02 05:31:31

Local clock offset: 1.243 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-12-02 06:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 5.775 ms

Loss rate: 34.76%

-- Flow 1:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 10.015 ms

Loss rate: 39.49%

-- Flow 2:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 2.546 ms

Loss rate: 22.04%

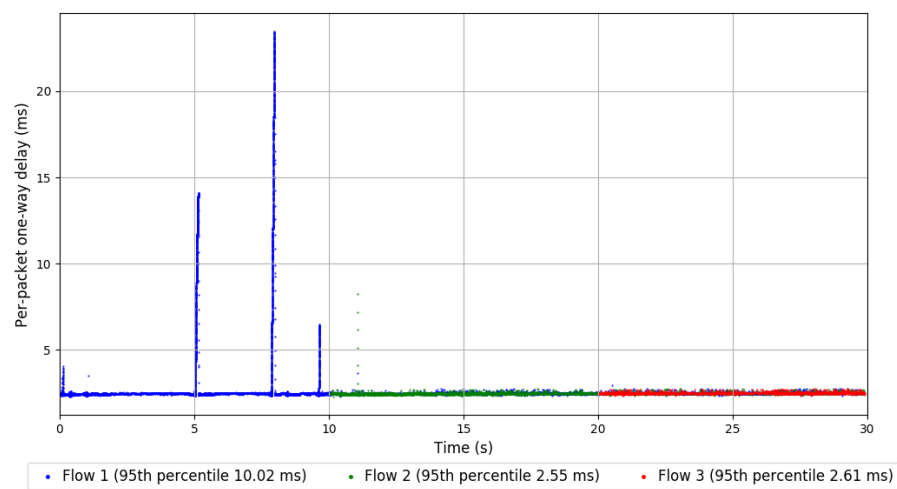
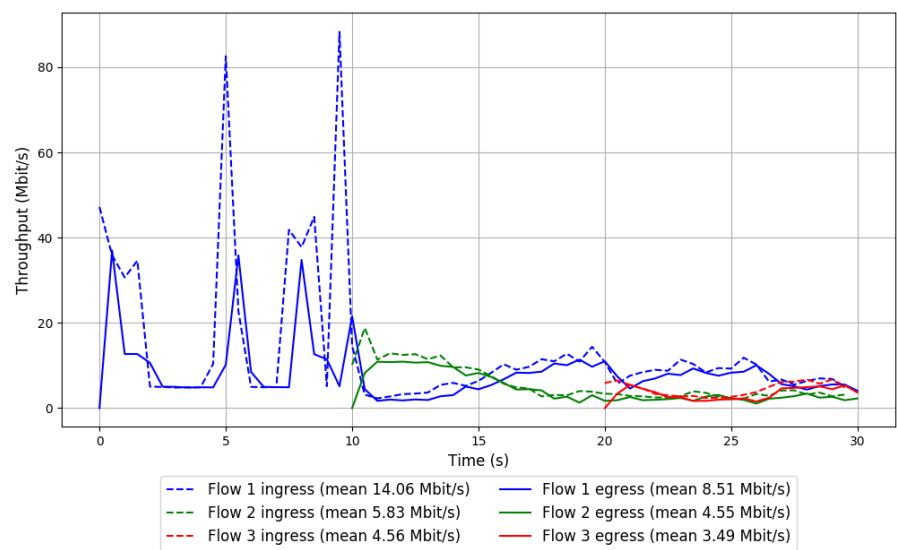
-- Flow 3:

Average throughput: 3.49 Mbit/s

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

Loss rate: 23.44%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-12-02 05:52:33

End at: 2018-12-02 05:53:03

Local clock offset: 0.488 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2018-12-02 06:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 2.229 ms

Loss rate: 22.67%

-- Flow 1:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 2.238 ms

Loss rate: 20.23%

-- Flow 2:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 26.28%

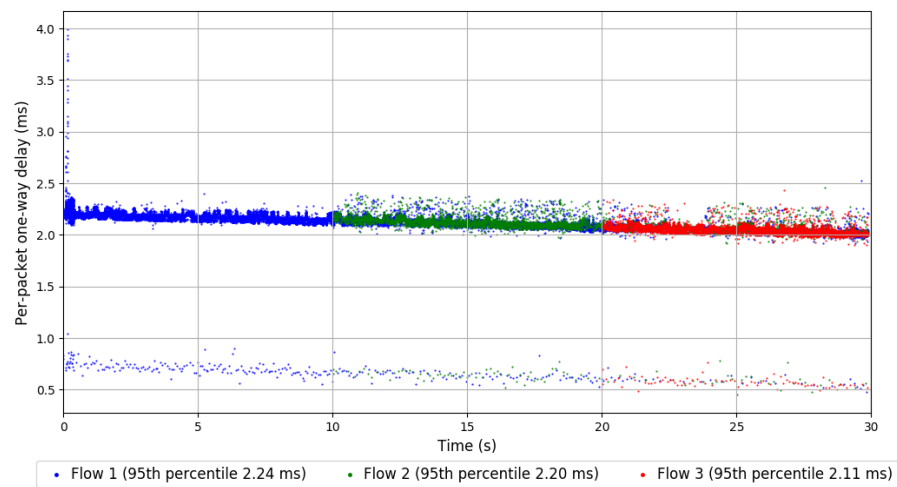
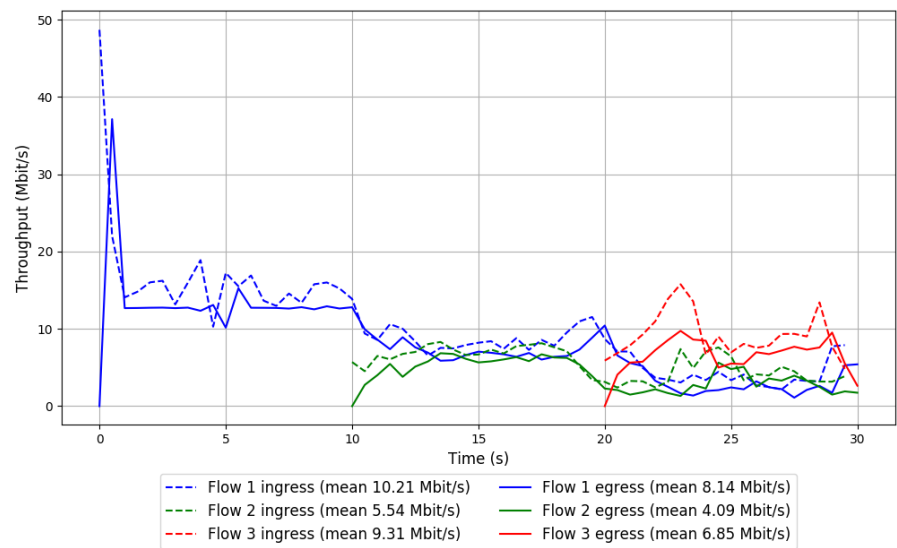
-- Flow 3:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 2.112 ms

Loss rate: 26.43%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-12-02 06:14:07

End at: 2018-12-02 06:14:37

Local clock offset: -3.052 ms

Remote clock offset: 0.623 ms

Below is generated by plot.py at 2018-12-02 06:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 2.538 ms

Loss rate: 35.01%

-- Flow 1:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 3.813 ms

Loss rate: 39.99%

-- Flow 2:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 2.440 ms

Loss rate: 24.69%

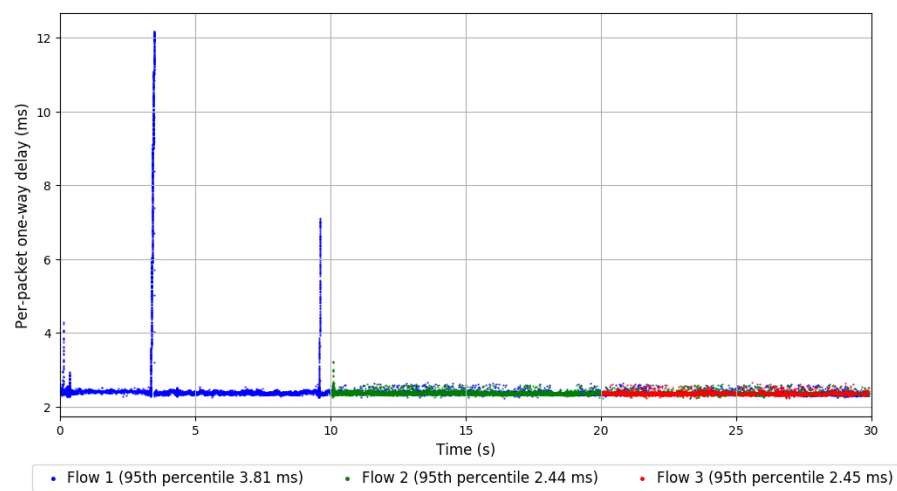
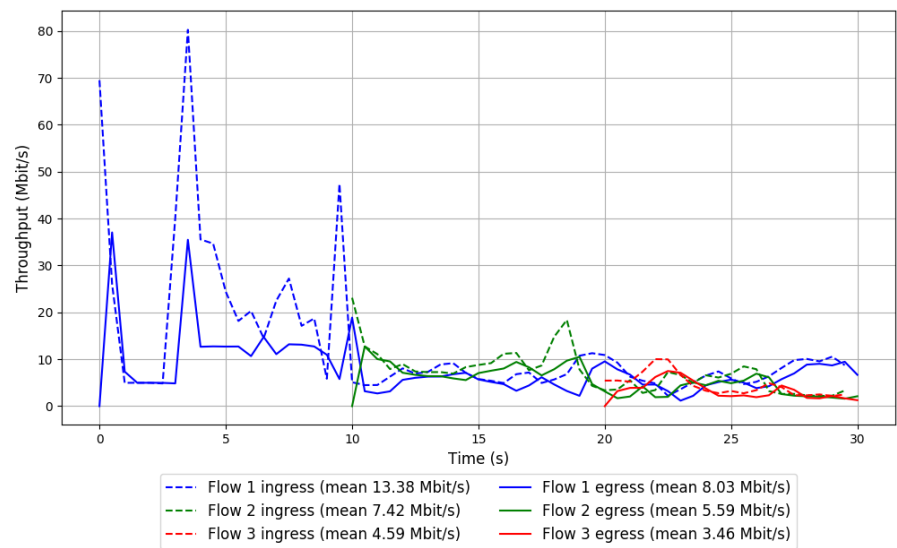
-- Flow 3:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 2.452 ms

Loss rate: 24.59%

Run 5: Report of PCC-Expr — Data Link

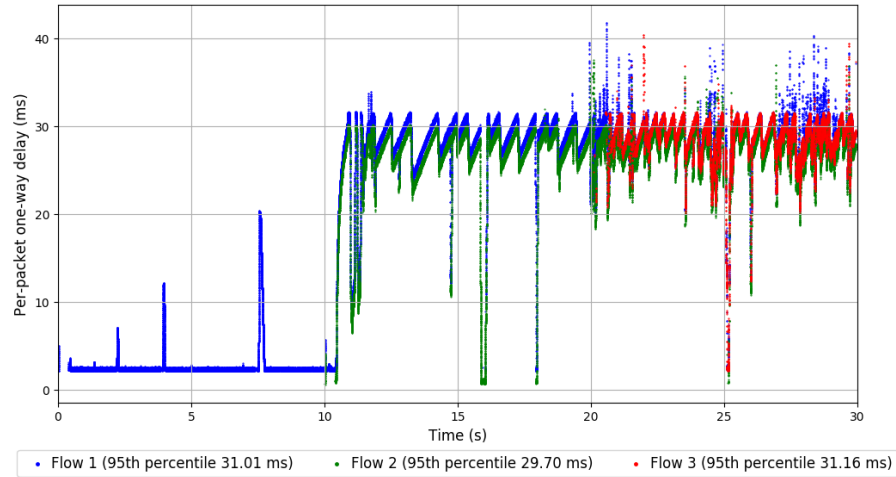
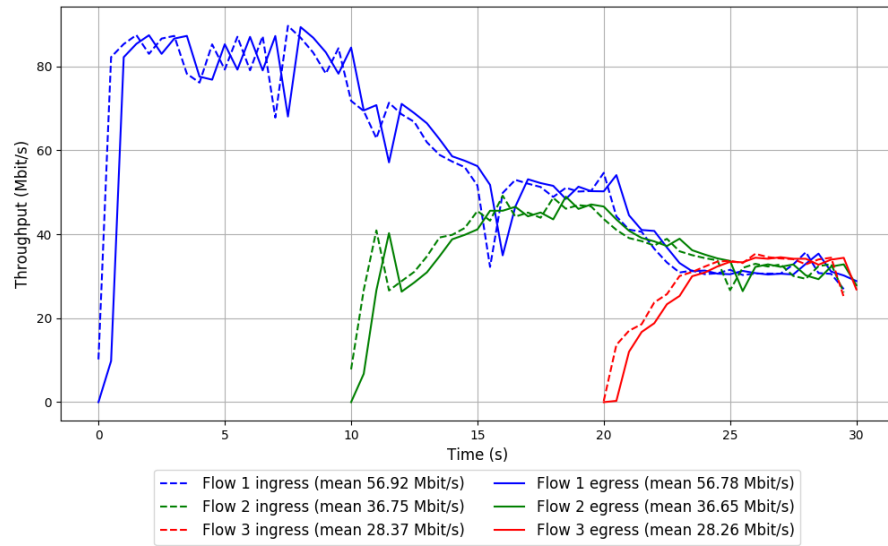


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-12-02 04:44:35
End at: 2018-12-02 04:45:05
Local clock offset: -1.357 ms
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2018-12-02 06:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.44 Mbit/s
95th percentile per-packet one-way delay: 30.933 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 31.010 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 29.704 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 31.162 ms
Loss rate: 0.25%
```

Run 1: Report of QUIC Cubic — Data Link

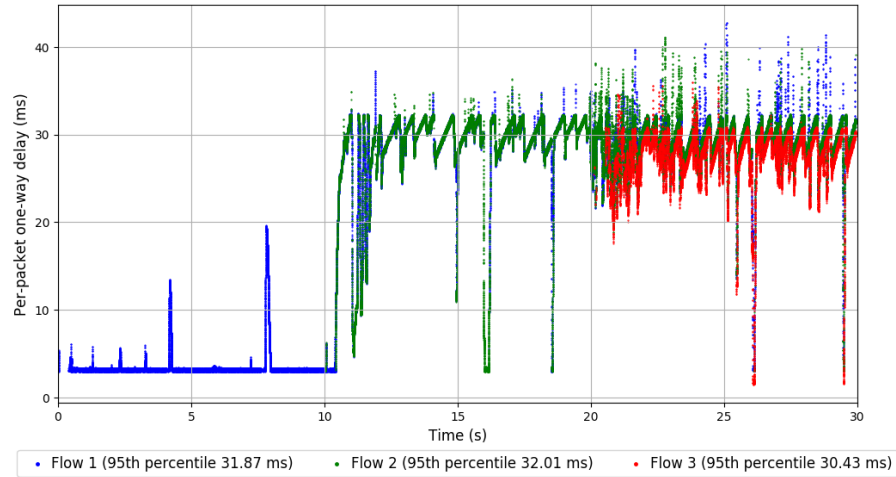
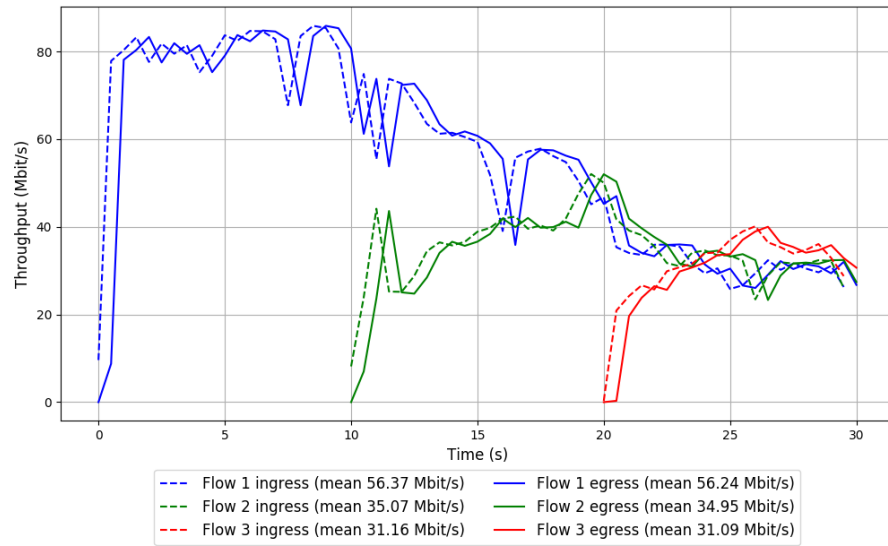


Run 2: Statistics of QUIC Cubic

Start at: 2018-12-02 05:06:08
End at: 2018-12-02 05:06:38
Local clock offset: -3.393 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-12-02 06:39:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.69 Mbit/s
95th percentile per-packet one-way delay: 31.899 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 31.867 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: 32.009 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 30.428 ms
Loss rate: 0.17%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-02 05:27:40

End at: 2018-12-02 05:28:10

Local clock offset: -0.19 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-12-02 06:39:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.41 Mbit/s

95th percentile per-packet one-way delay: 31.621 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 57.95 Mbit/s

95th percentile per-packet one-way delay: 30.520 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 32.159 ms

Loss rate: 0.21%

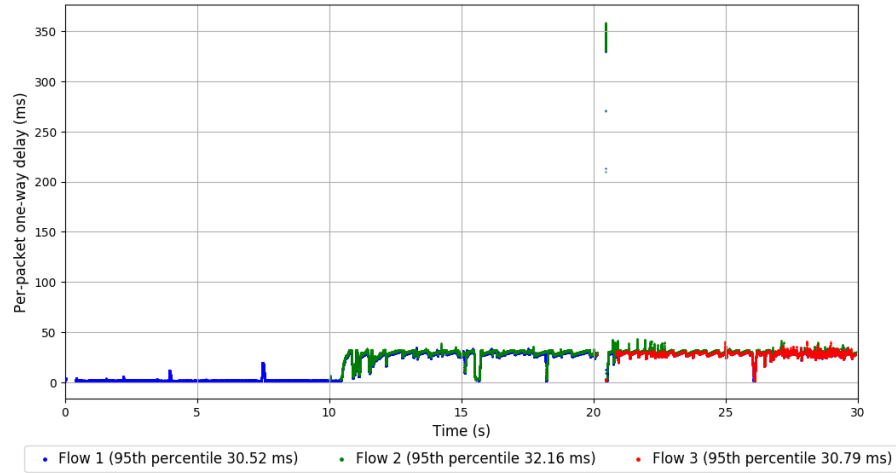
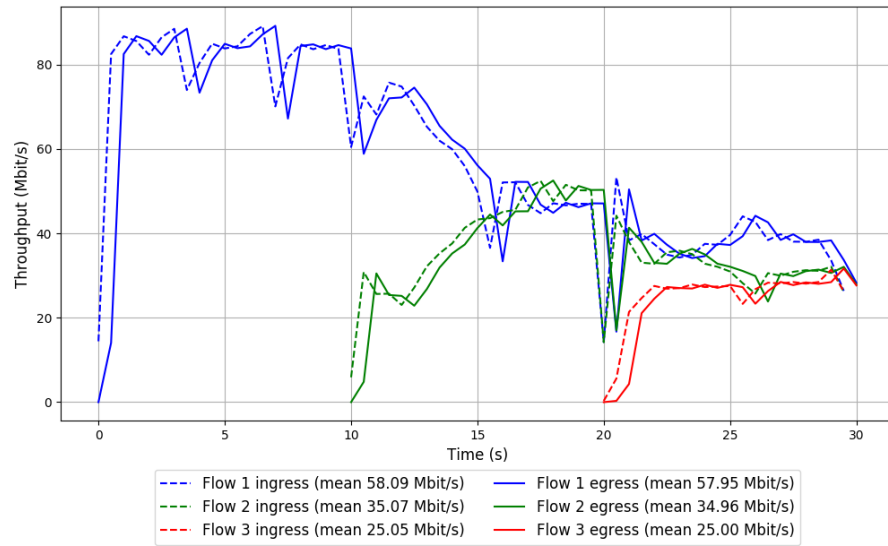
-- Flow 3:

Average throughput: 25.00 Mbit/s

95th percentile per-packet one-way delay: 30.788 ms

Loss rate: 0.22%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-12-02 05:49:13

End at: 2018-12-02 05:49:43

Local clock offset: 1.585 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-12-02 06:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.02 Mbit/s

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

Loss rate: 0.16%

-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 31.356 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 34.66 Mbit/s

95th percentile per-packet one-way delay: 31.537 ms

Loss rate: 0.17%

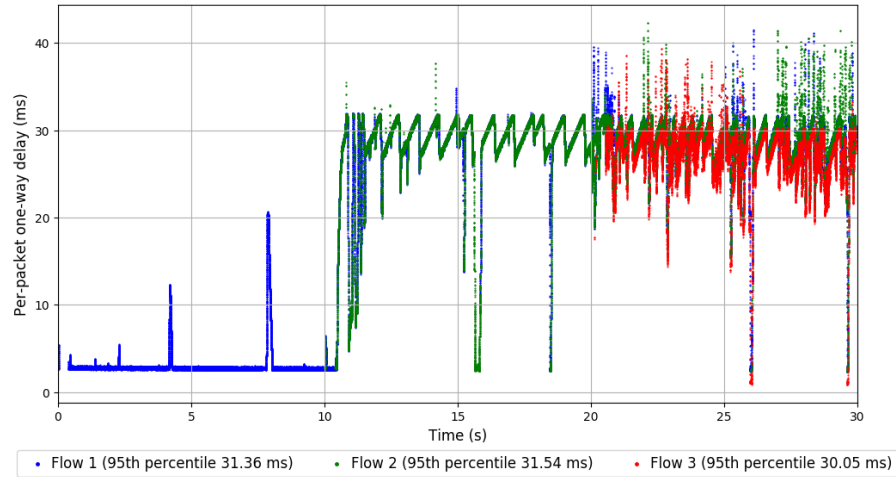
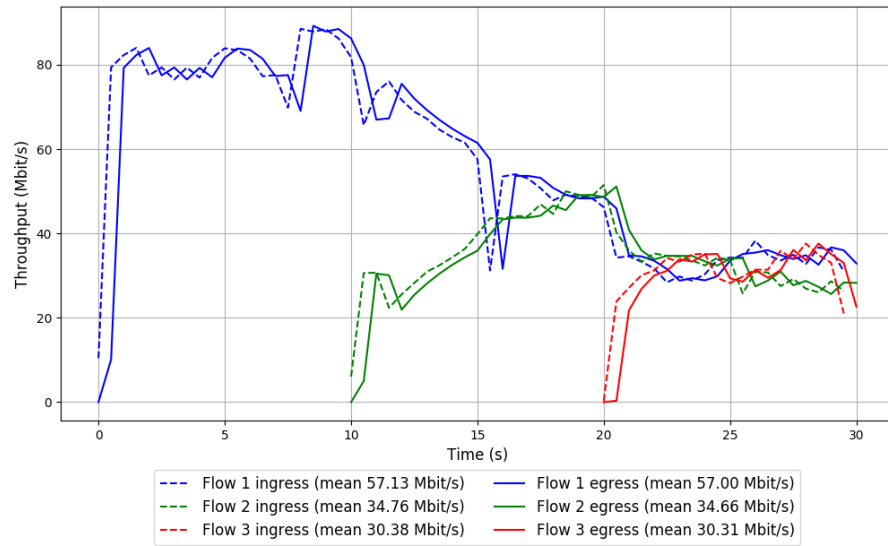
-- Flow 3:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 30.050 ms

Loss rate: 0.22%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-02 06:10:47

End at: 2018-12-02 06:11:17

Local clock offset: -3.55 ms

Remote clock offset: 0.539 ms

Below is generated by plot.py at 2018-12-02 06:40:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 31.405 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 30.264 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 37.72 Mbit/s

95th percentile per-packet one-way delay: 31.908 ms

Loss rate: 0.17%

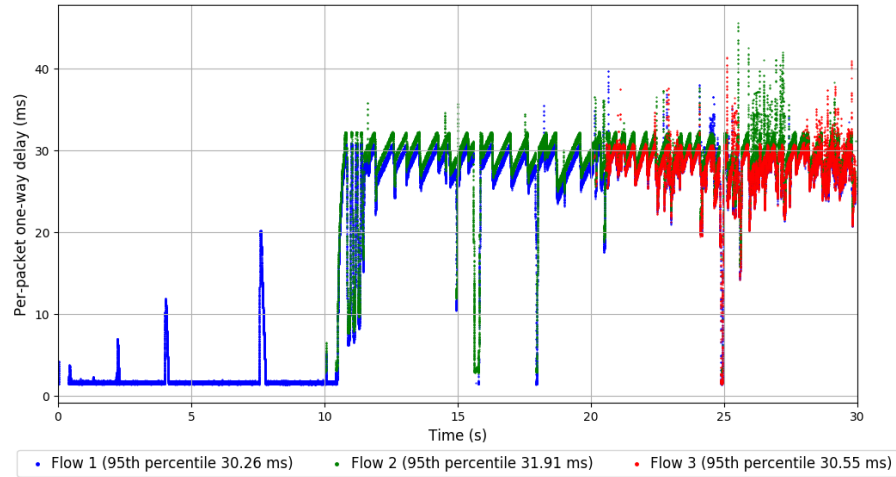
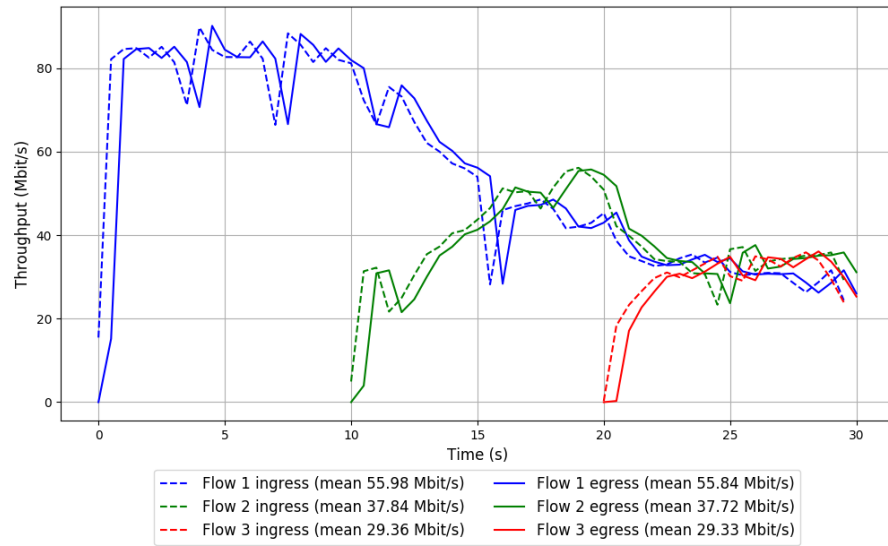
-- Flow 3:

Average throughput: 29.33 Mbit/s

95th percentile per-packet one-way delay: 30.546 ms

Loss rate: 0.16%

Run 5: Report of QUIC Cubic — Data Link

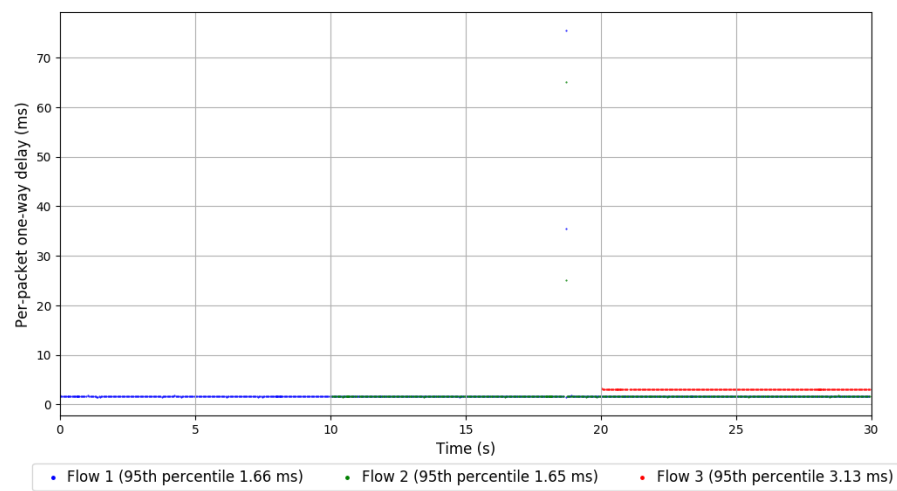
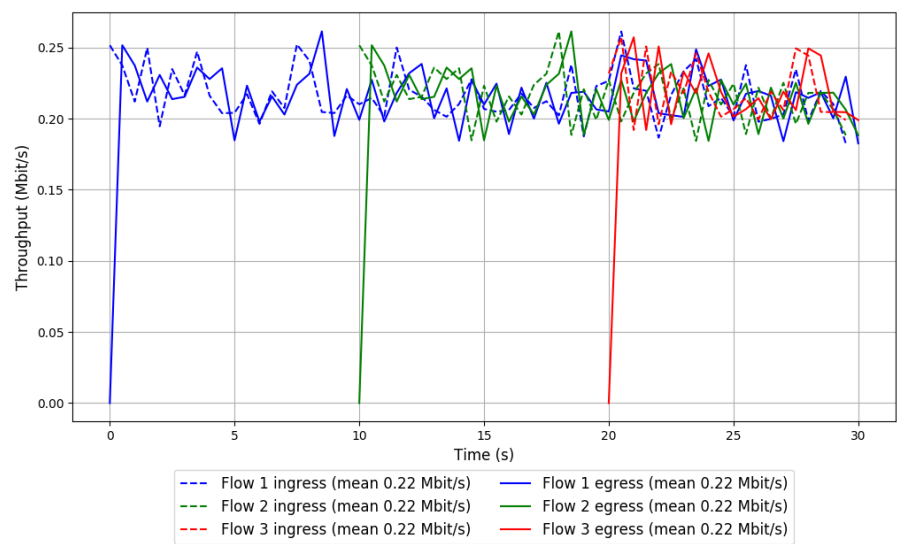


Run 1: Statistics of SReAM

Start at: 2018-12-02 04:46:50
End at: 2018-12-02 04:47:20
Local clock offset: -2.101 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-12-02 06:40:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.663 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.646 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.127 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

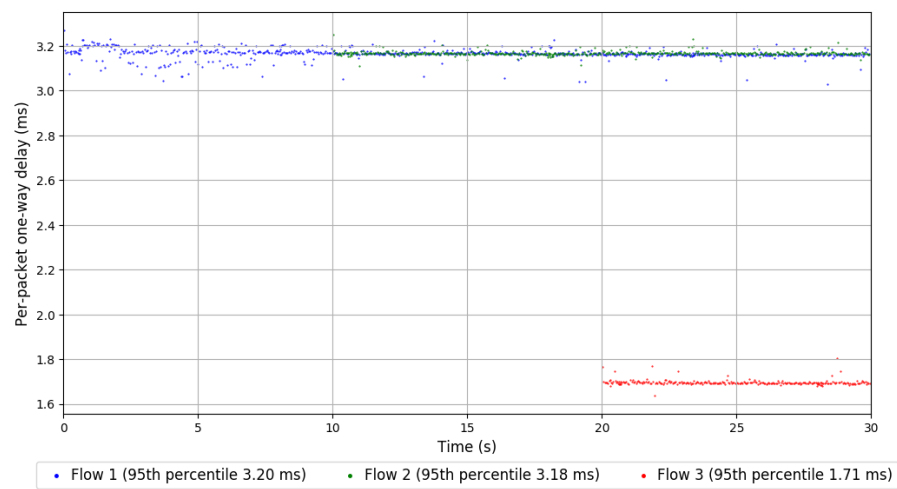
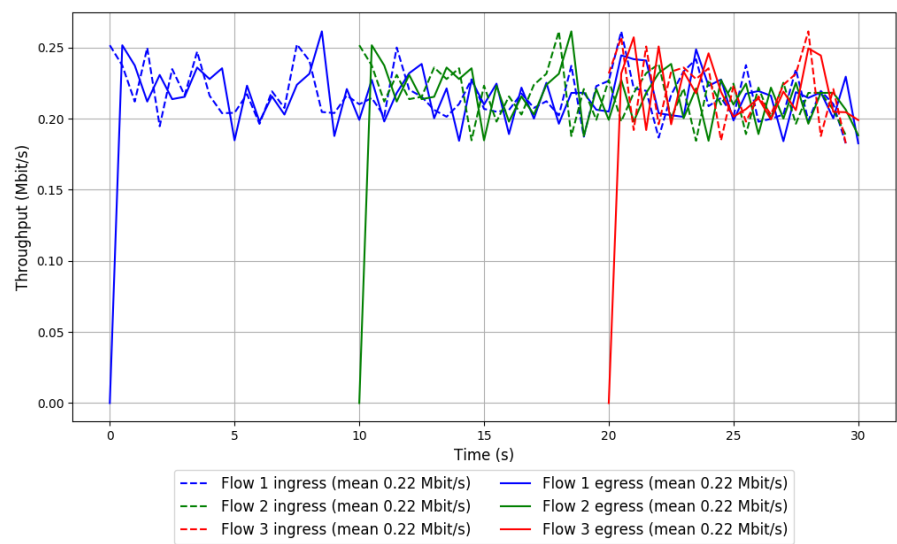


Run 2: Statistics of SReAM

Start at: 2018-12-02 05:08:23
End at: 2018-12-02 05:08:53
Local clock offset: -3.431 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-12-02 06:40:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.204 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.184 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.706 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-12-02 05:29:56

End at: 2018-12-02 05:30:26

Local clock offset: 0.999 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-12-02 06:40:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.00%

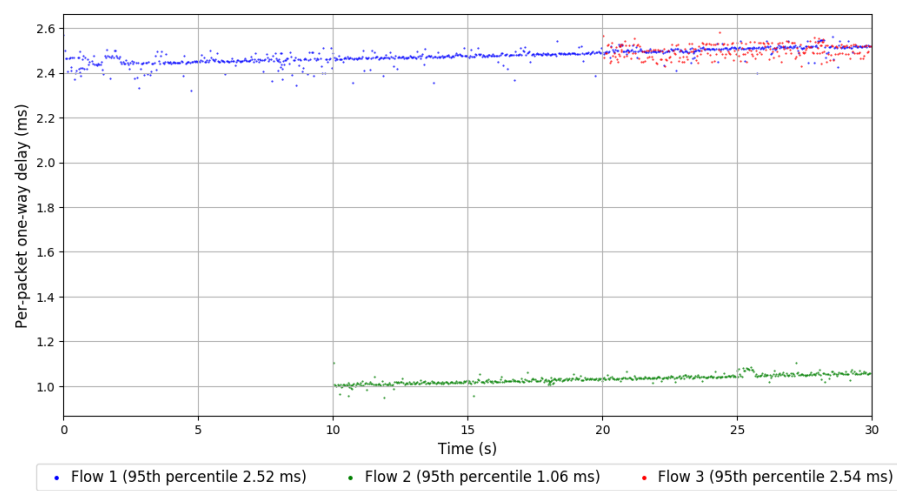
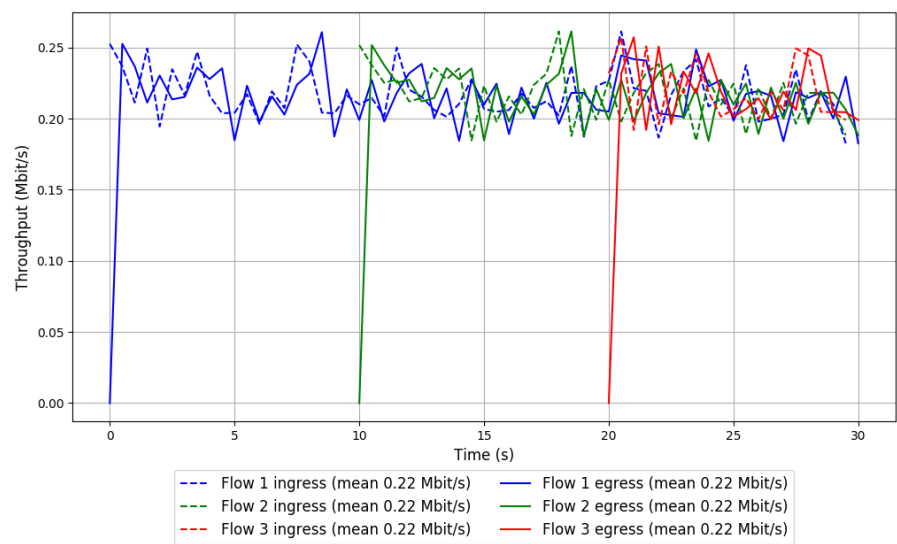
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.538 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

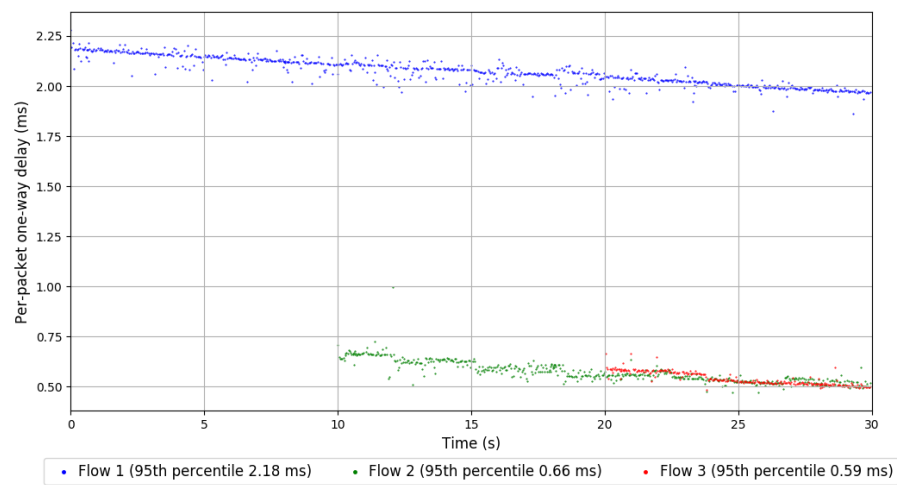
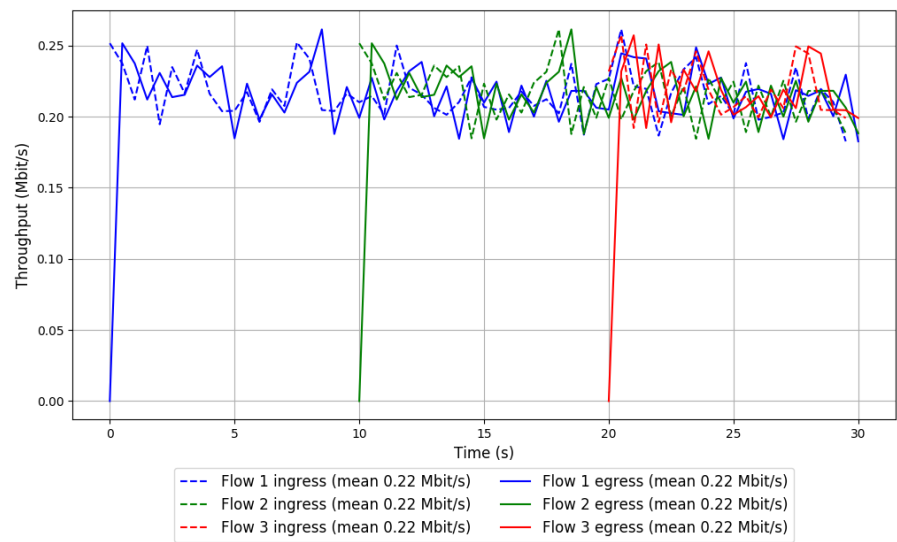


Run 4: Statistics of SReAM

Start at: 2018-12-02 05:51:28
End at: 2018-12-02 05:51:58
Local clock offset: 0.985 ms
Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-12-02 06:40:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.177 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.662 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.588 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-12-02 06:13:02

End at: 2018-12-02 06:13:32

Local clock offset: -3.701 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-12-02 06:40:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 3.158 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.172 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.683 ms

Loss rate: 0.00%

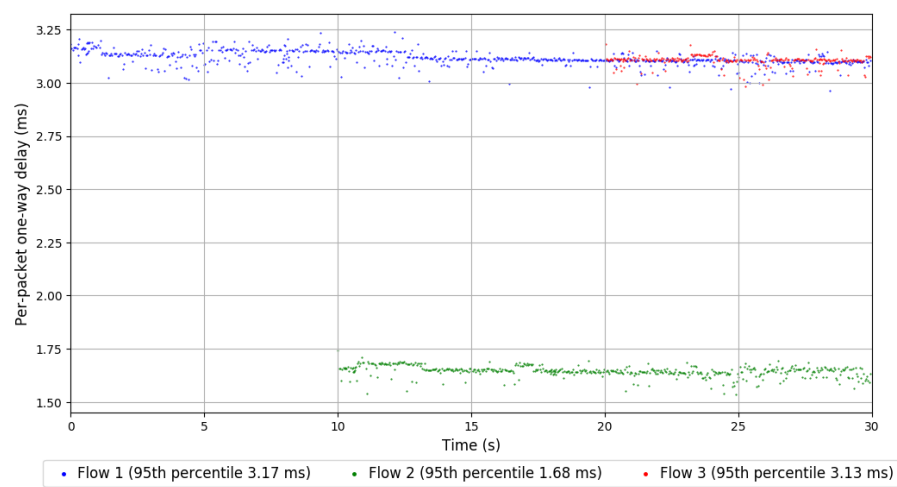
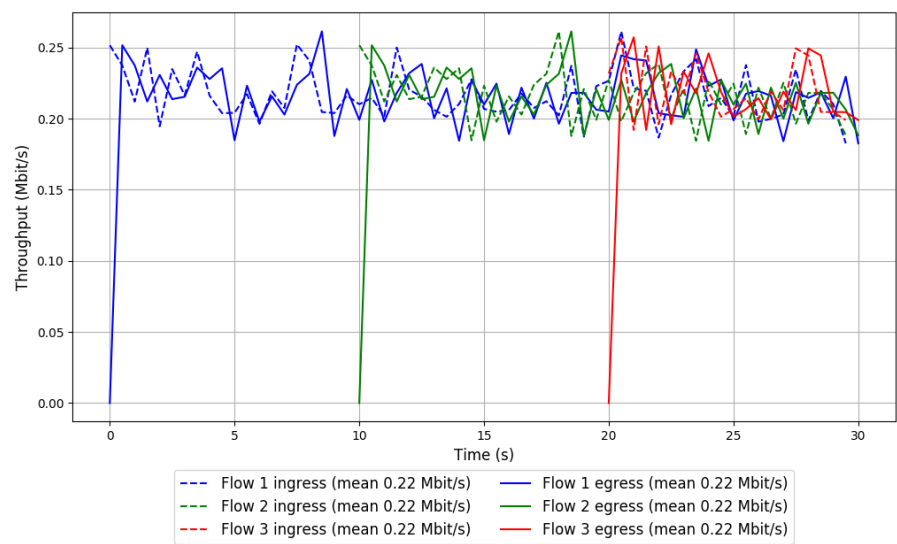
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.134 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

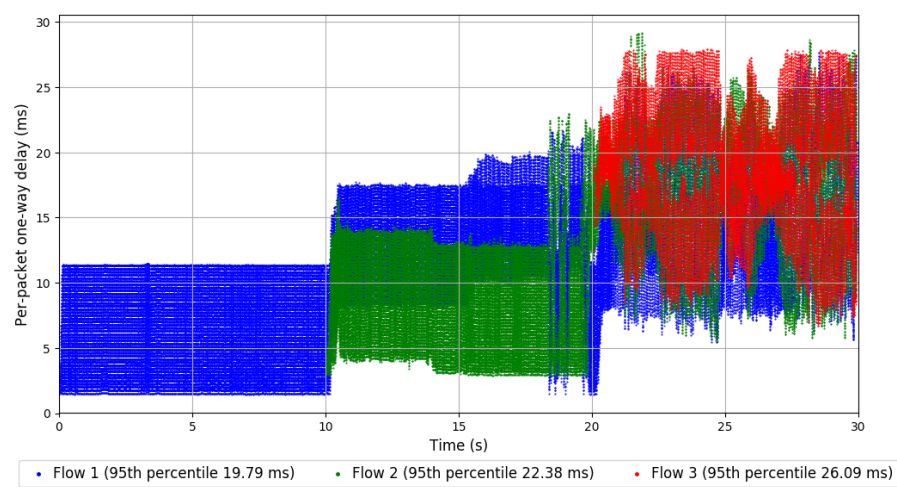
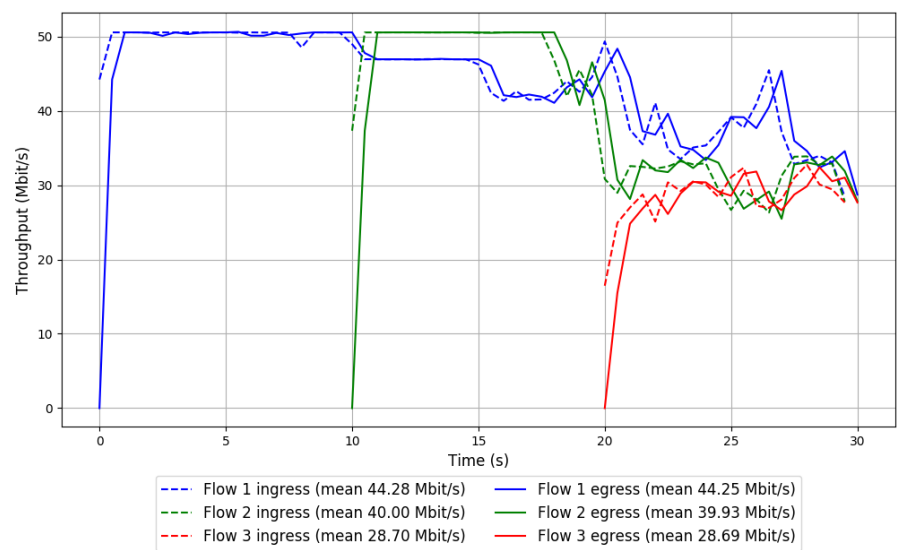


Run 1: Statistics of Sprout

Start at: 2018-12-02 04:50:11
End at: 2018-12-02 04:50:41
Local clock offset: -2.382 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-12-02 06:40:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.29 Mbit/s
95th percentile per-packet one-way delay: 22.677 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 19.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 22.379 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 28.69 Mbit/s
95th percentile per-packet one-way delay: 26.087 ms
Loss rate: 0.01%

Run 1: Report of Sprout — Data Link

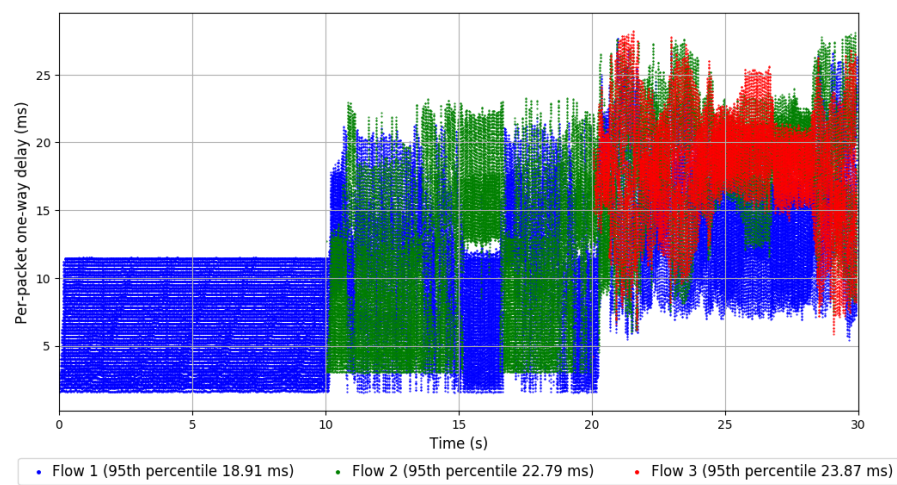
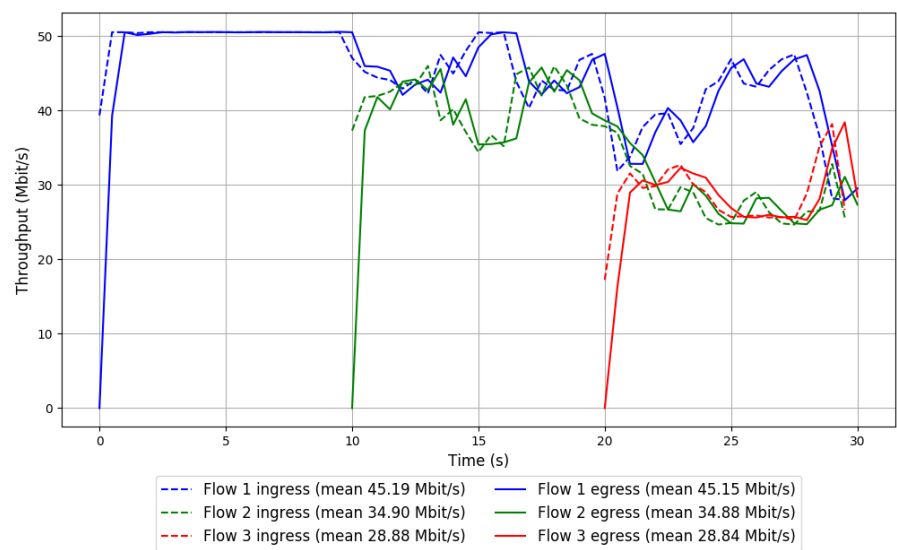


Run 2: Statistics of Sprout

Start at: 2018-12-02 05:11:44
End at: 2018-12-02 05:12:14
Local clock offset: -3.516 ms
Remote clock offset: -0.078 ms

```
# Below is generated by plot.py at 2018-12-02 06:40:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.89 Mbit/s
95th percentile per-packet one-way delay: 21.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.15 Mbit/s
95th percentile per-packet one-way delay: 18.912 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 22.788 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 23.867 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-12-02 05:33:17

End at: 2018-12-02 05:33:47

Local clock offset: 0.789 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-12-02 06:40:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.45 Mbit/s

95th percentile per-packet one-way delay: 23.363 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 42.25 Mbit/s

95th percentile per-packet one-way delay: 22.318 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 24.071 ms

Loss rate: 0.00%

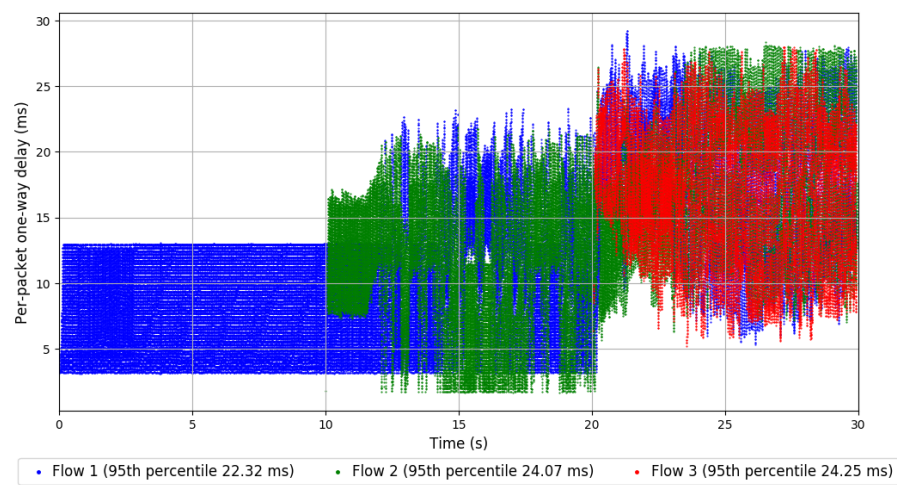
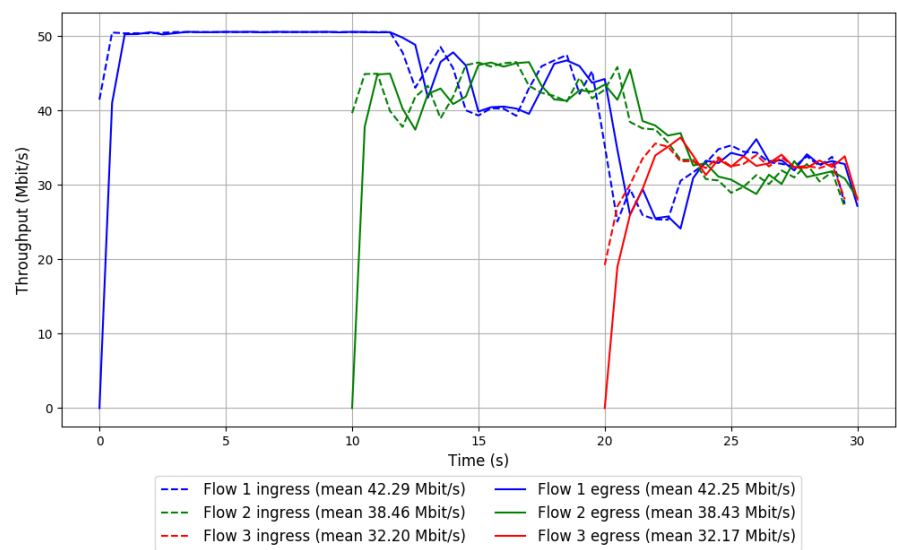
-- Flow 3:

Average throughput: 32.17 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

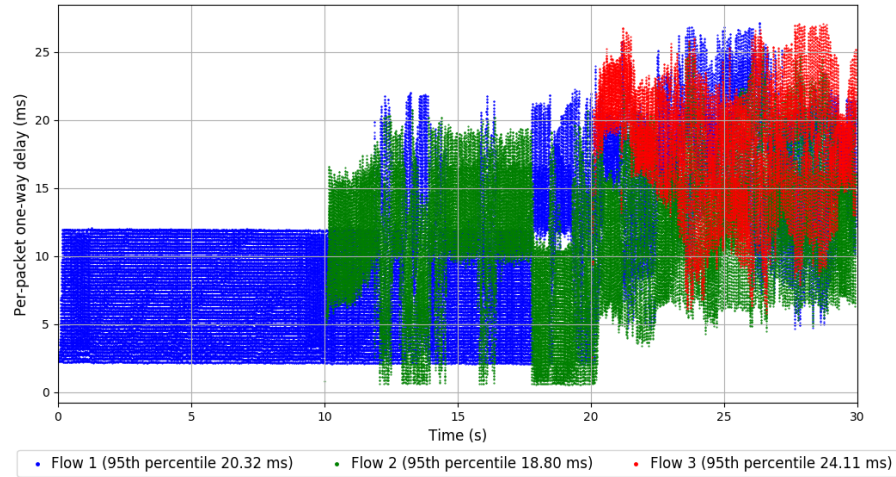
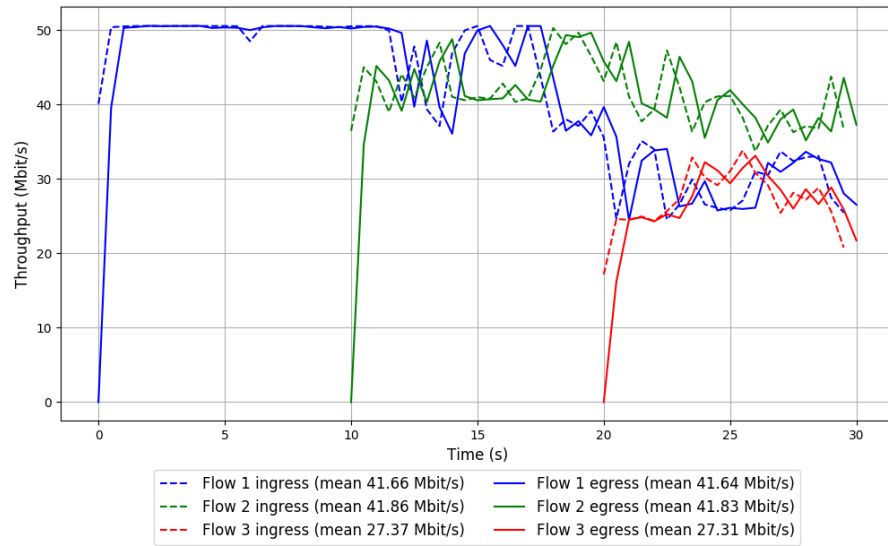


Run 4: Statistics of Sprout

Start at: 2018-12-02 05:54:50
End at: 2018-12-02 05:55:20
Local clock offset: -0.244 ms
Remote clock offset: 0.345 ms

```
# Below is generated by plot.py at 2018-12-02 06:40:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 21.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 20.320 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.83 Mbit/s
95th percentile per-packet one-way delay: 18.805 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.31 Mbit/s
95th percentile per-packet one-way delay: 24.109 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-12-02 06:16:23

End at: 2018-12-02 06:16:53

Local clock offset: -3.888 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-12-02 06:40:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 22.900 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.75 Mbit/s

95th percentile per-packet one-way delay: 20.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 23.329 ms

Loss rate: 0.00%

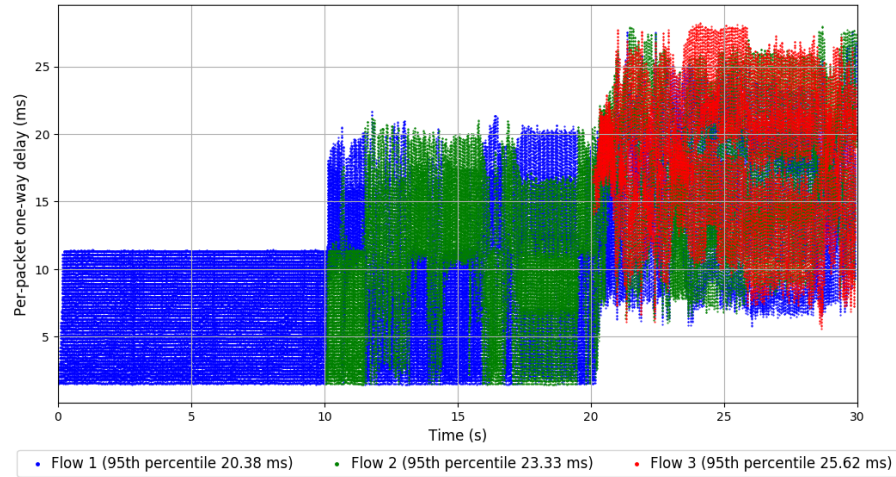
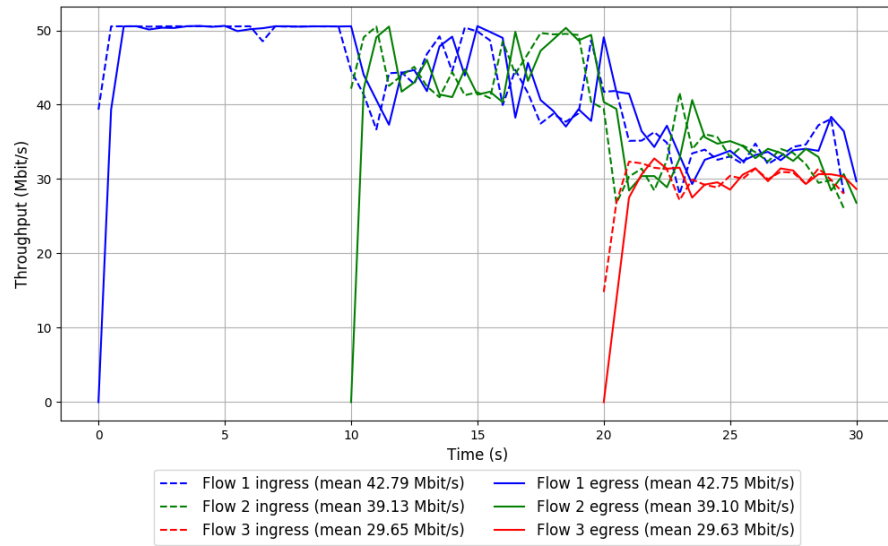
-- Flow 3:

Average throughput: 29.63 Mbit/s

95th percentile per-packet one-way delay: 25.624 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

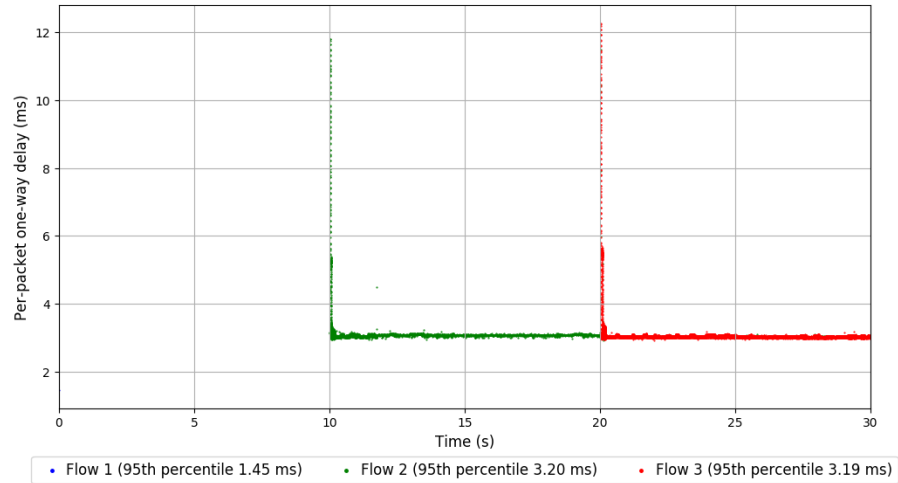
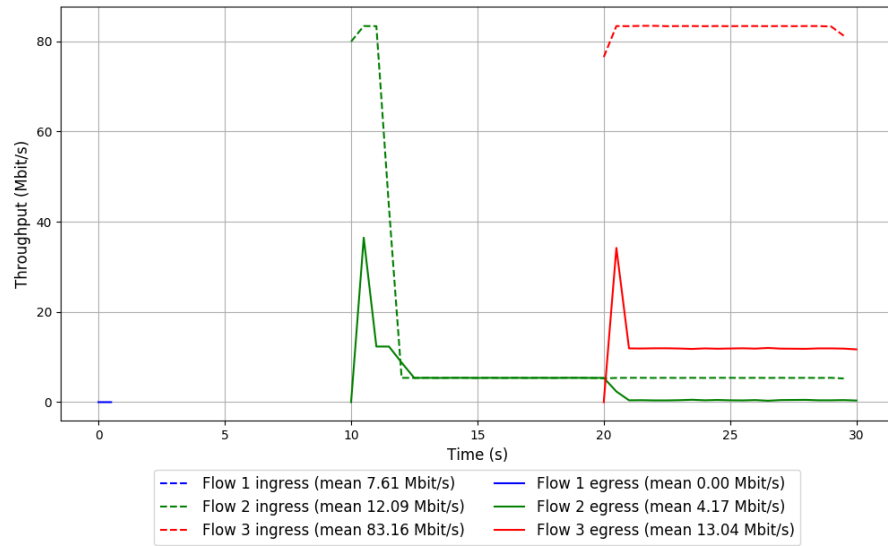


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-02 05:01:34
End at: 2018-12-02 05:02:04
Local clock offset: -3.268 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-12-02 06:40:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 3.193 ms
Loss rate: 80.09%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.452 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 3.199 ms
Loss rate: 65.56%
-- Flow 3:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 3.188 ms
Loss rate: 84.32%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-12-02 05:23:07

End at: 2018-12-02 05:23:37

Local clock offset: -0.601 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-12-02 06:40:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 2.633 ms

Loss rate: 83.96%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 2.633 ms

Loss rate: 83.96%

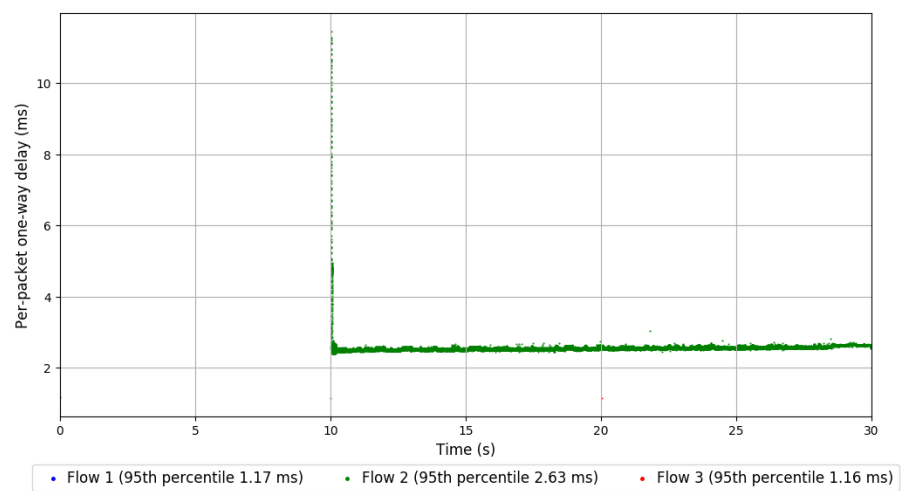
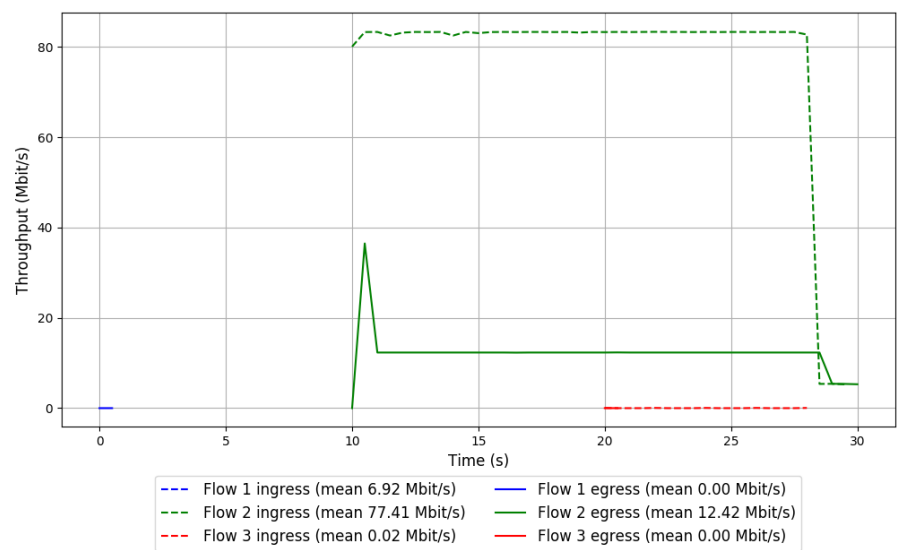
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 99.16%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-12-02 05:44:39

End at: 2018-12-02 05:45:09

Local clock offset: 1.947 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-12-02 06:40:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.298 ms

Loss rate: 83.90%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 3.302 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 3.292 ms

Loss rate: 84.10%

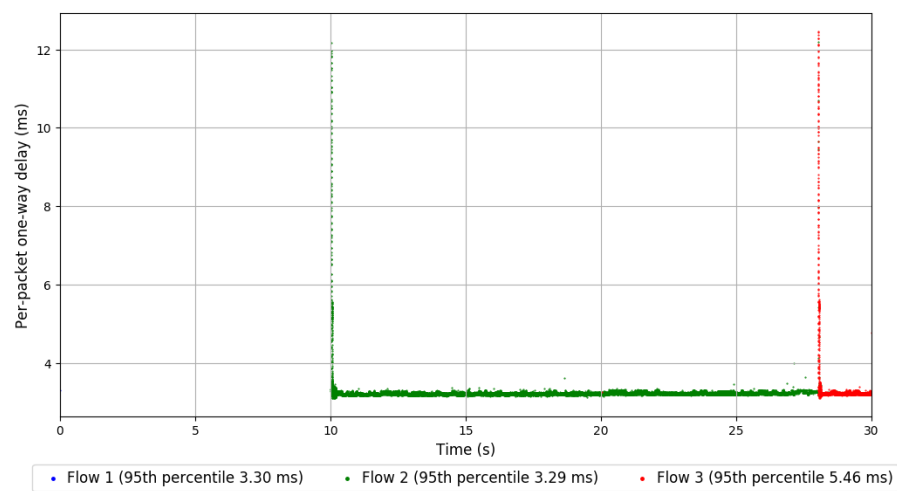
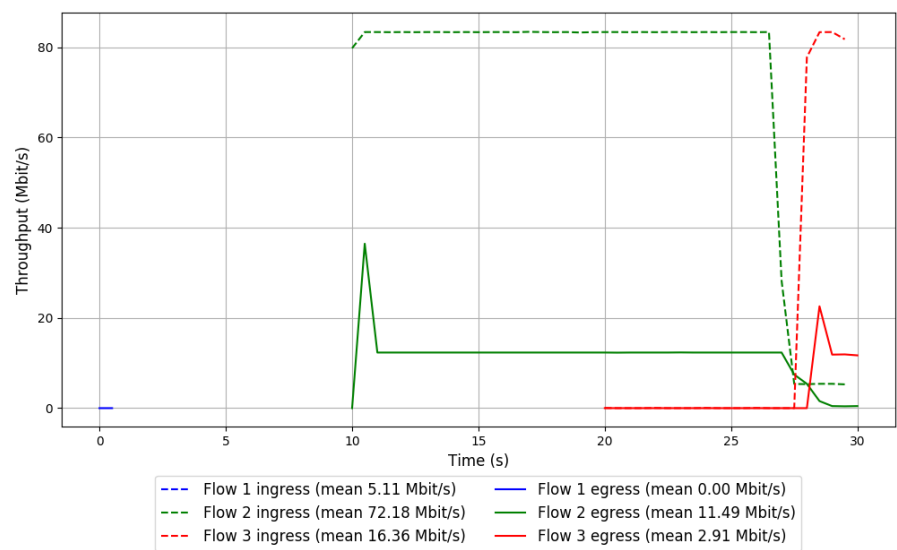
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 5.463 ms

Loss rate: 82.21%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-12-02 06:06:13

End at: 2018-12-02 06:06:43

Local clock offset: -3.249 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-12-02 06:40:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.086 ms

Loss rate: 83.68%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 3.176 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 3.075 ms

Loss rate: 83.98%

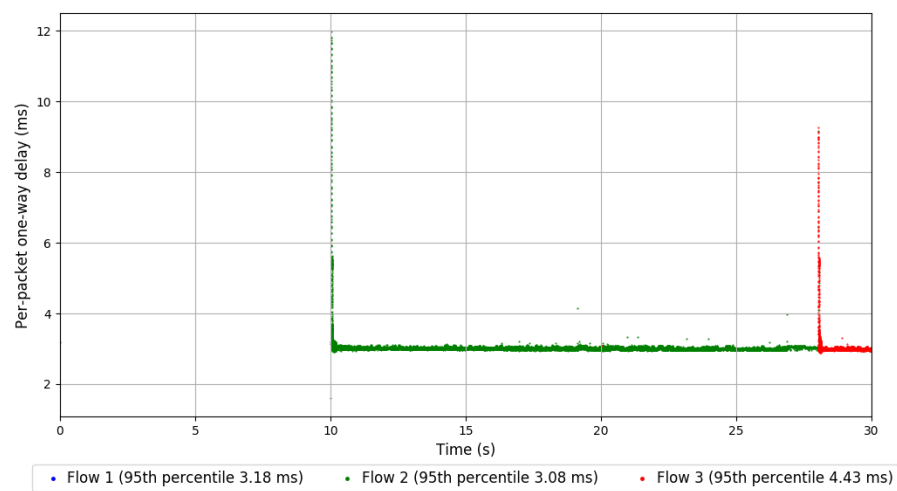
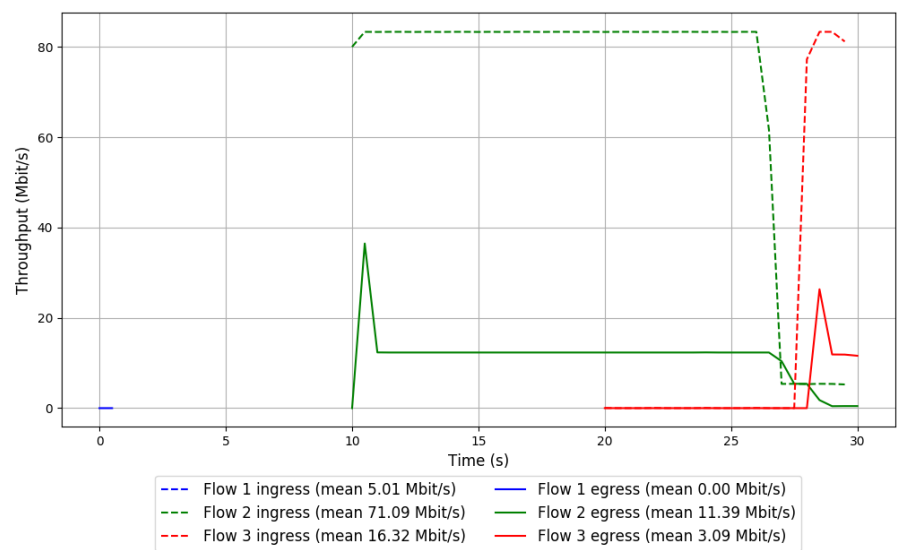
-- Flow 3:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 4.427 ms

Loss rate: 81.04%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-12-02 06:27:47

End at: 2018-12-02 06:28:17

Local clock offset: -2.879 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-12-02 06:40:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 83.92%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 9.02 Mbit/s

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

Loss rate: 83.79%

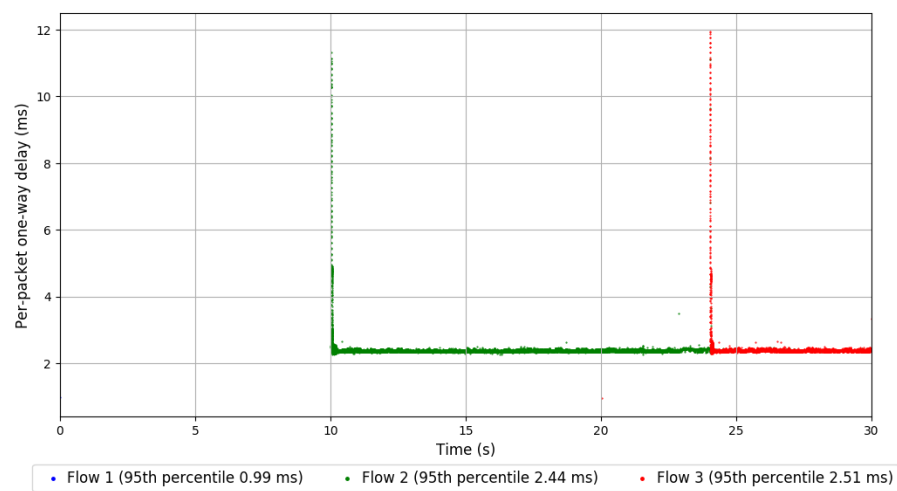
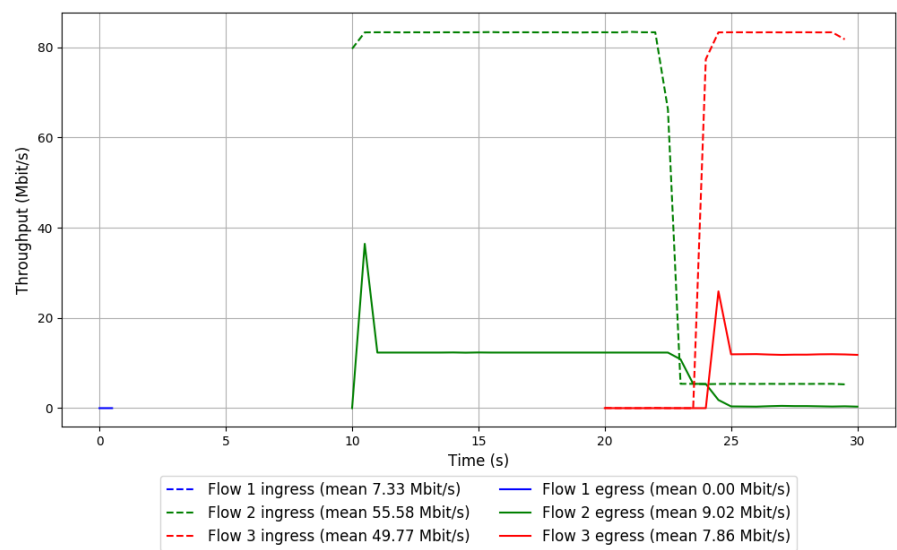
-- Flow 3:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 2.514 ms

Loss rate: 84.20%

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

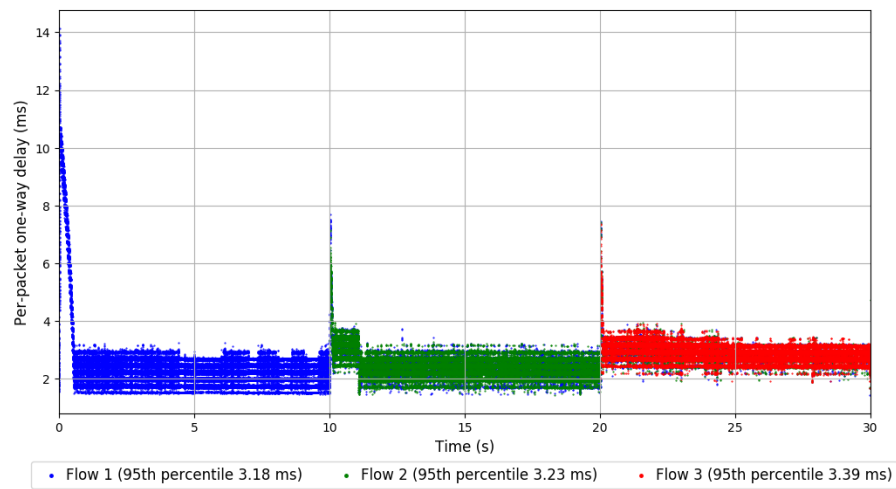
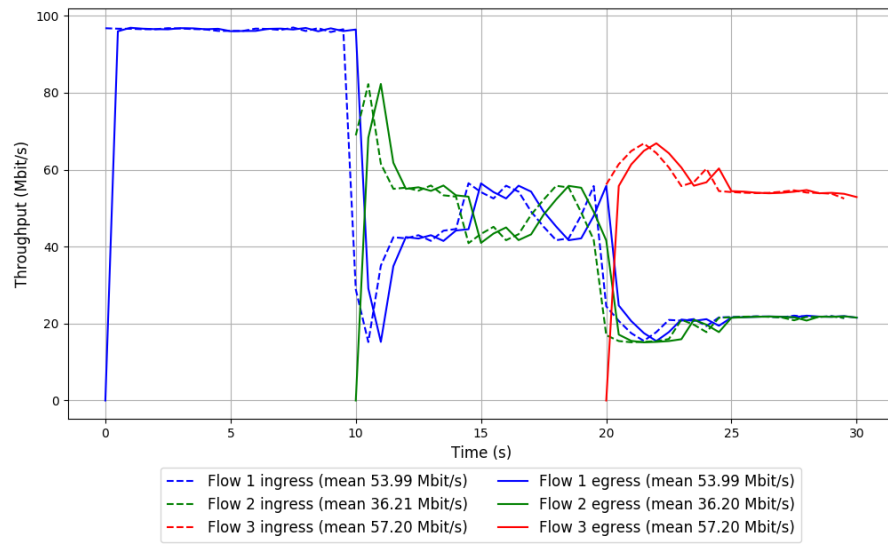


Run 1: Statistics of TCP Vegas

Start at: 2018-12-02 04:54:43
End at: 2018-12-02 04:55:13
Local clock offset: -2.89 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-12-02 06:41:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 3.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.99 Mbit/s
95th percentile per-packet one-way delay: 3.177 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.20 Mbit/s
95th percentile per-packet one-way delay: 3.234 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.20 Mbit/s
95th percentile per-packet one-way delay: 3.390 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

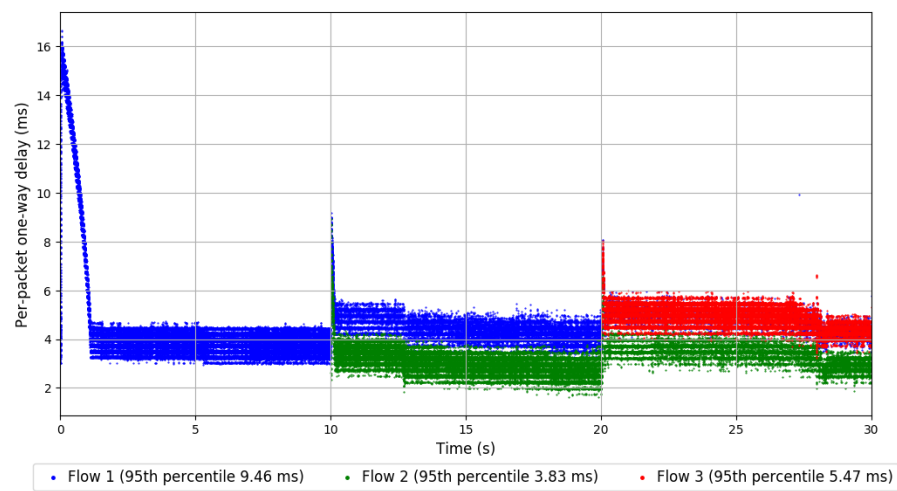
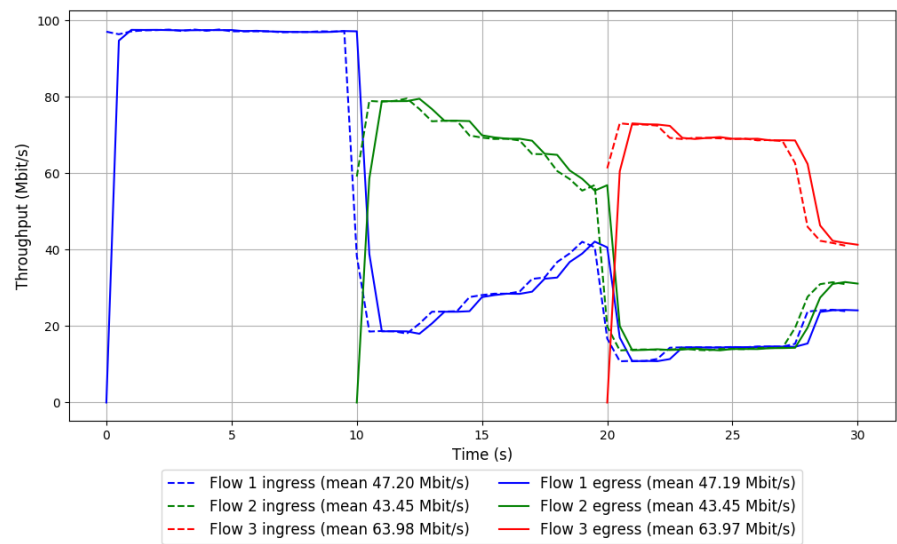


Run 2: Statistics of TCP Vegas

Start at: 2018-12-02 05:16:16
End at: 2018-12-02 05:16:46
Local clock offset: -3.486 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-12-02 06:41:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 5.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.19 Mbit/s
95th percentile per-packet one-way delay: 9.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.45 Mbit/s
95th percentile per-packet one-way delay: 3.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 5.470 ms
Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-12-02 05:37:49

End at: 2018-12-02 05:38:19

Local clock offset: 2.137 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-12-02 06:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.340 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.82 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 2.863 ms

Loss rate: 0.00%

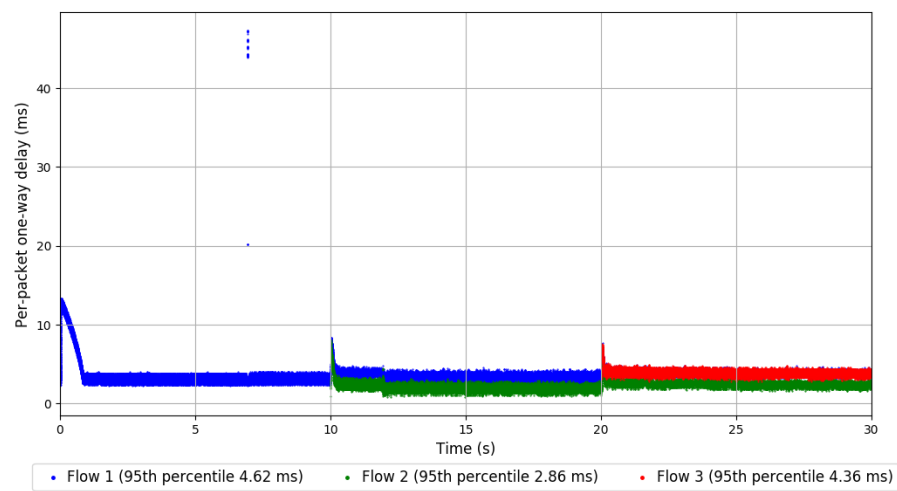
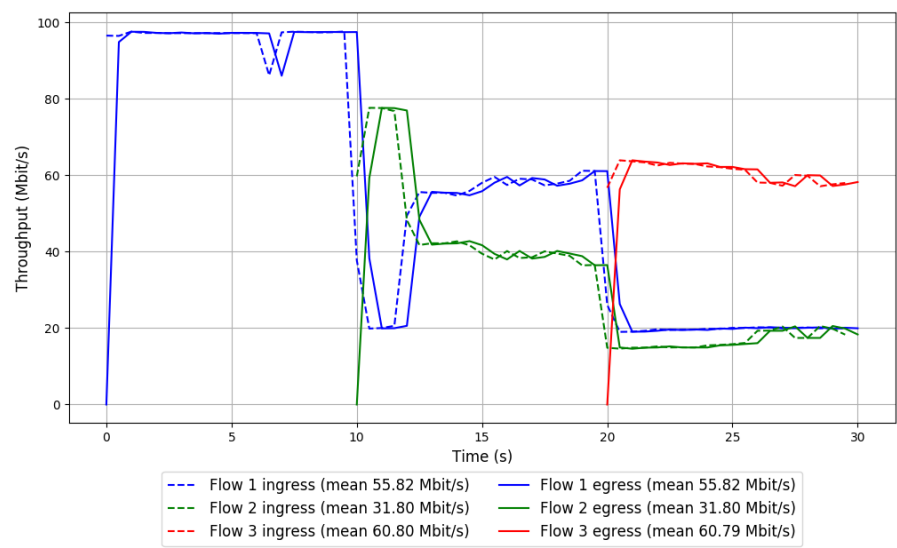
-- Flow 3:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 4.355 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-12-02 05:59:22

End at: 2018-12-02 05:59:52

Local clock offset: -2.272 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2018-12-02 06:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 3.502 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 3.473 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 3.444 ms

Loss rate: 0.00%

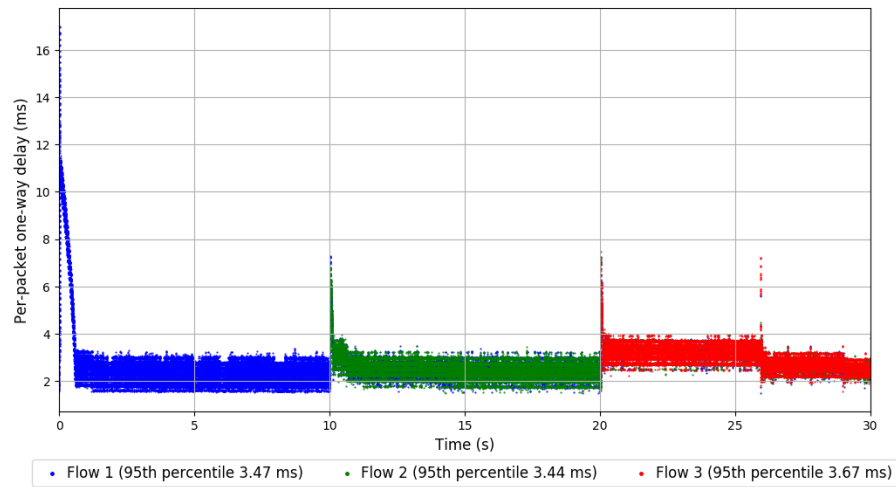
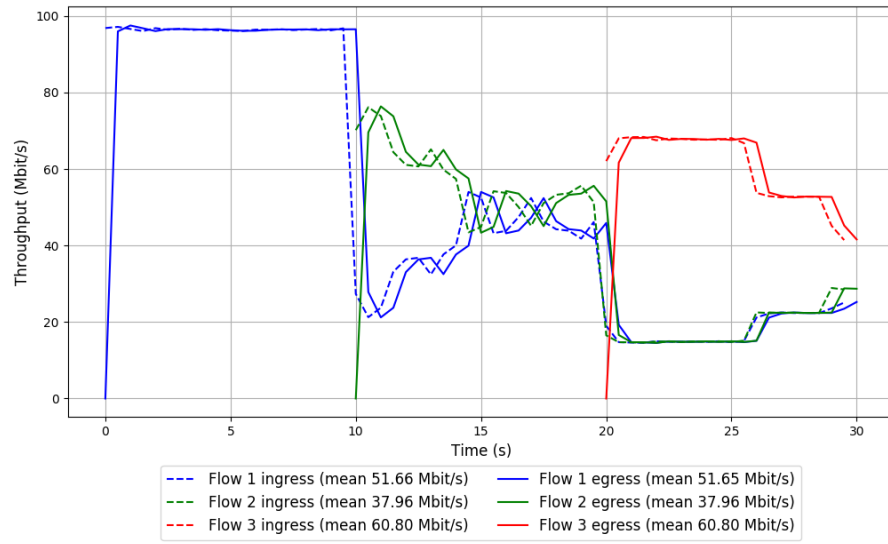
-- Flow 3:

Average throughput: 60.80 Mbit/s

95th percentile per-packet one-way delay: 3.674 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-02 06:20:55

End at: 2018-12-02 06:21:25

Local clock offset: -3.802 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2018-12-02 06:41:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.63 Mbit/s

95th percentile per-packet one-way delay: 4.884 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 44.53 Mbit/s

95th percentile per-packet one-way delay: 3.361 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 46.64 Mbit/s

95th percentile per-packet one-way delay: 4.644 ms

Loss rate: 0.01%

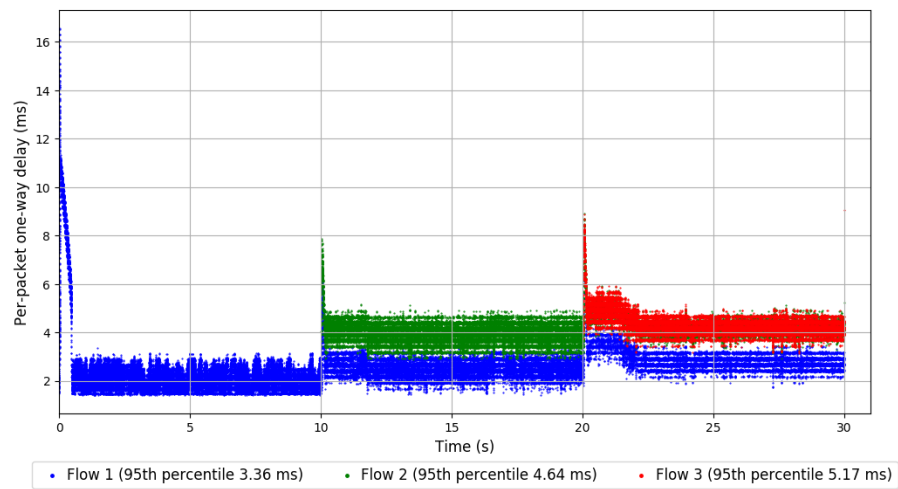
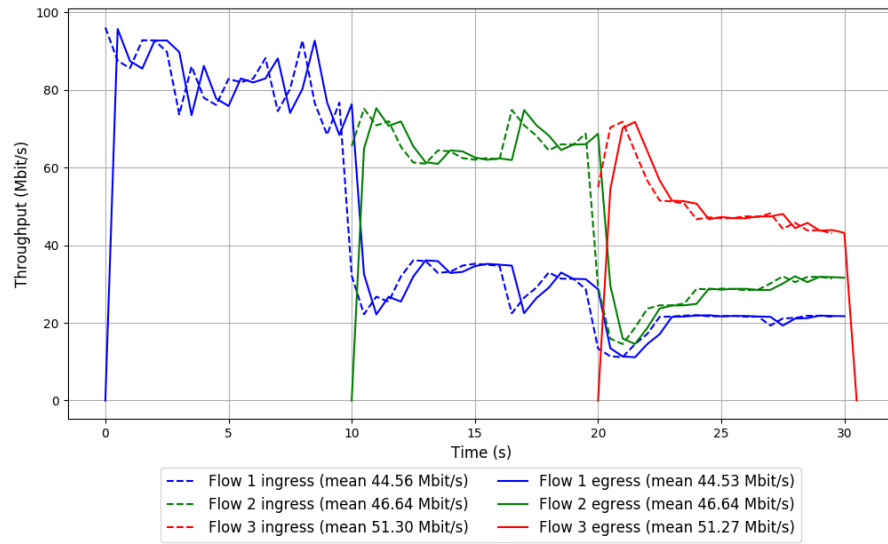
-- Flow 3:

Average throughput: 51.27 Mbit/s

95th percentile per-packet one-way delay: 5.174 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link

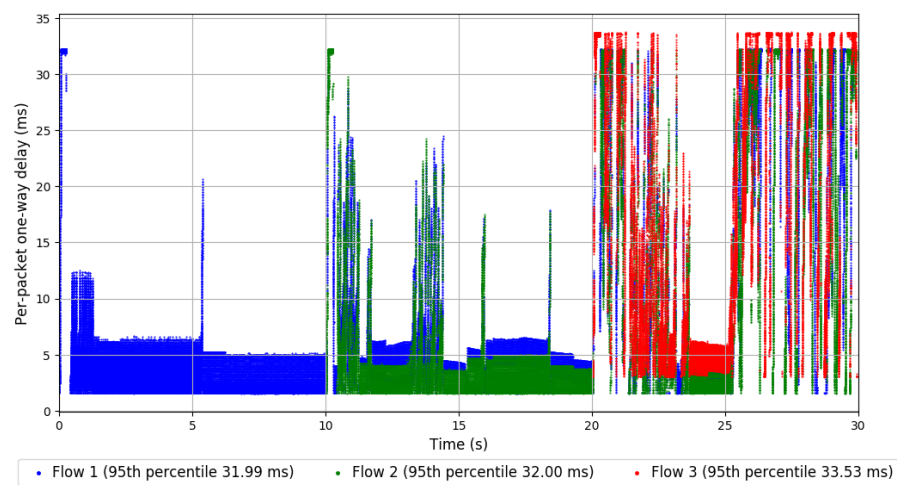
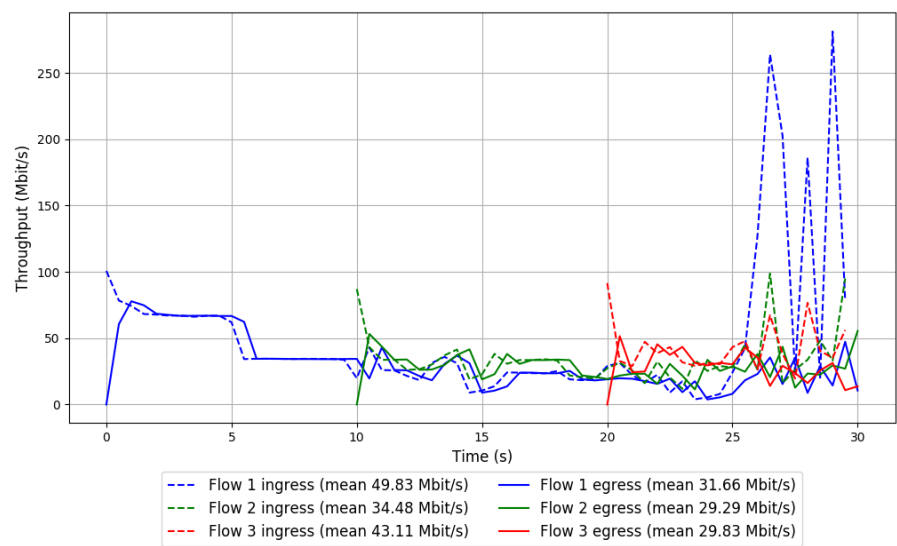


Run 1: Statistics of Verus

Start at: 2018-12-02 05:00:26
End at: 2018-12-02 05:00:56
Local clock offset: -3.228 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-12-02 06:41:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 32.128 ms
Loss rate: 29.82%
-- Flow 1:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 31.987 ms
Loss rate: 36.40%
-- Flow 2:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 32.004 ms
Loss rate: 14.92%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 33.529 ms
Loss rate: 30.80%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-02 05:21:58

End at: 2018-12-02 05:22:29

Local clock offset: -1.02 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-12-02 06:41:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 25.921 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 22.580 ms

Loss rate: 2.90%

-- Flow 2:

Average throughput: 41.92 Mbit/s

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

Loss rate: 3.44%

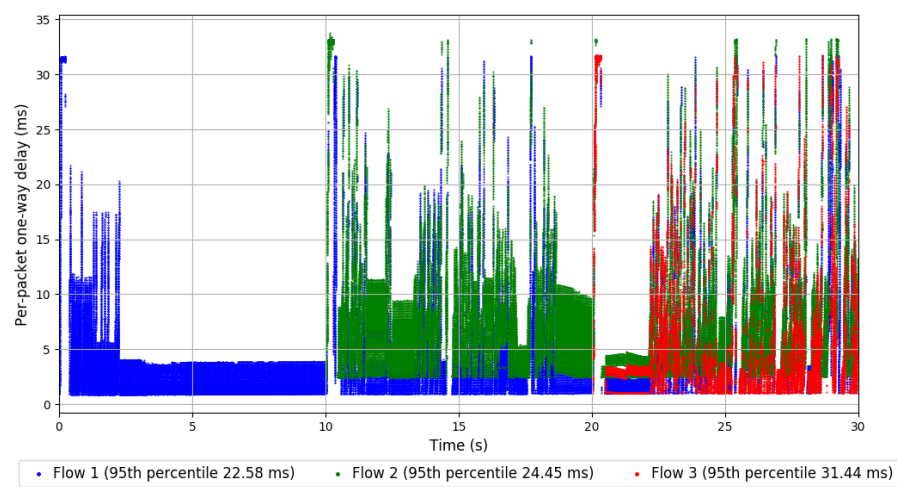
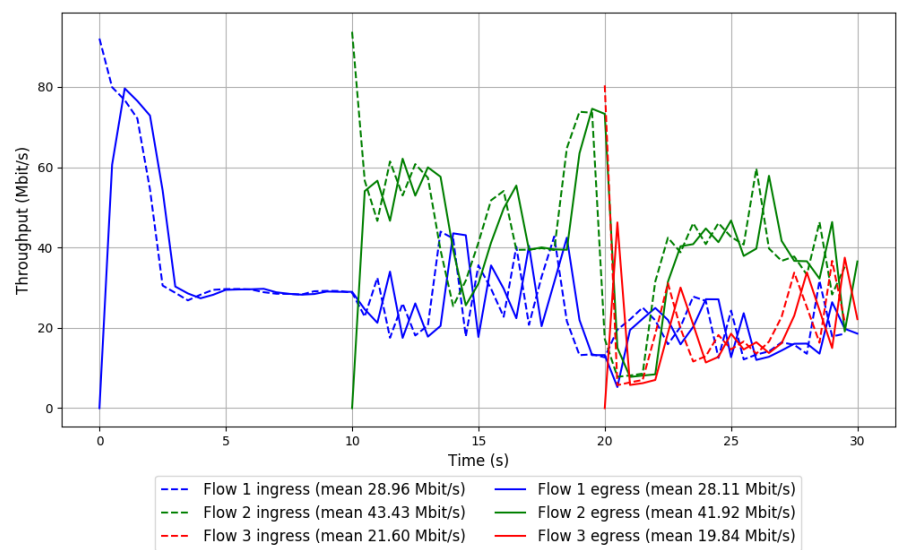
-- Flow 3:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 31.442 ms

Loss rate: 8.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-12-02 05:43:31

End at: 2018-12-02 05:44:01

Local clock offset: 1.907 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-12-02 06:41:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 32.049 ms

Loss rate: 9.96%

-- Flow 1:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 30.578 ms

Loss rate: 9.48%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 32.620 ms

Loss rate: 7.13%

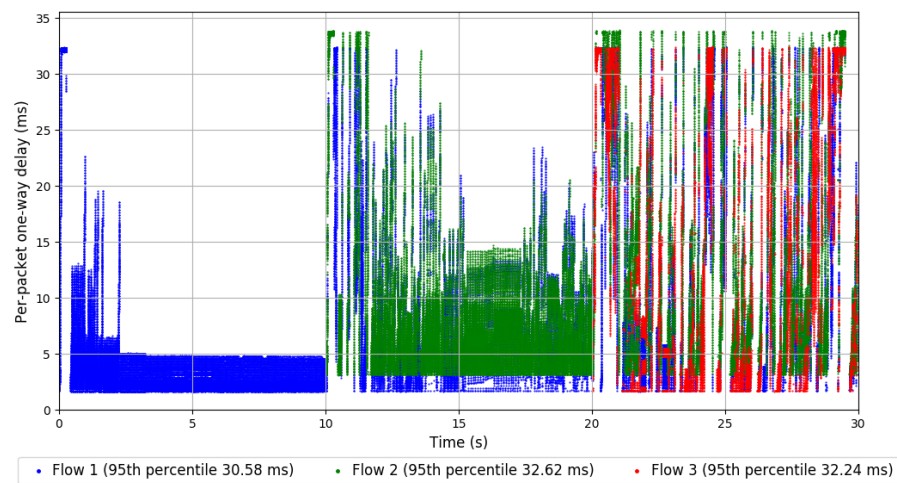
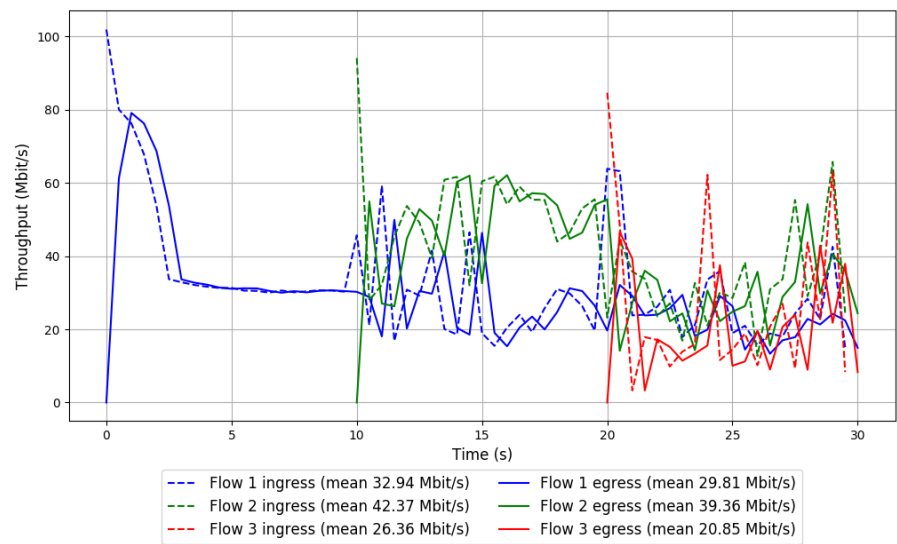
-- Flow 3:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 32.237 ms

Loss rate: 20.91%

Run 3: Report of Verus — Data Link

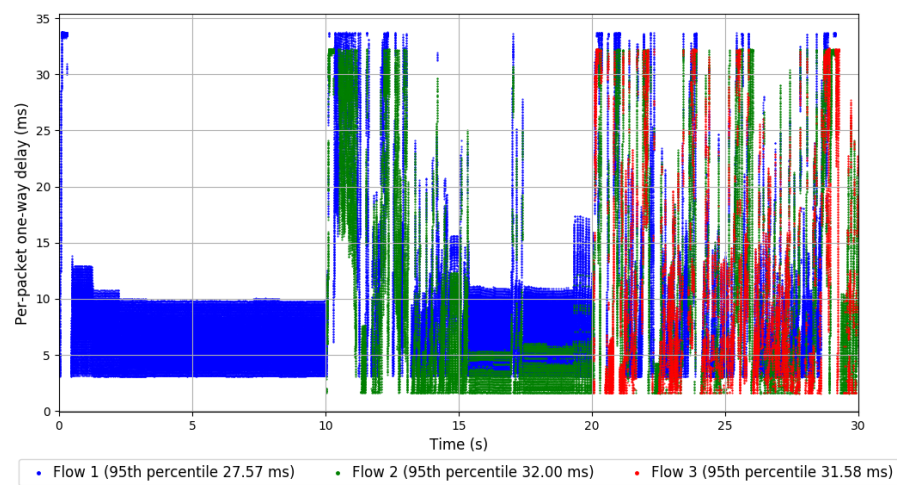
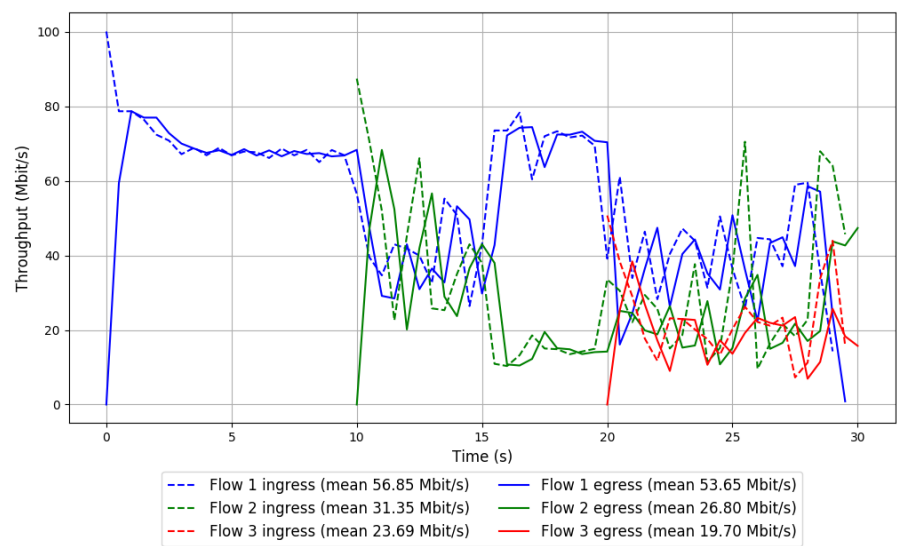


Run 4: Statistics of Verus

Start at: 2018-12-02 06:05:04
End at: 2018-12-02 06:05:34
Local clock offset: -3.135 ms
Remote clock offset: 0.46 ms

Below is generated by plot.py at 2018-12-02 06:42:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.52 Mbit/s
95th percentile per-packet one-way delay: 30.885 ms
Loss rate: 8.81%
-- Flow 1:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 27.569 ms
Loss rate: 5.54%
-- Flow 2:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 31.997 ms
Loss rate: 14.49%
-- Flow 3:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 31.577 ms
Loss rate: 16.74%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-12-02 06:26:38

End at: 2018-12-02 06:27:08

Local clock offset: -3.667 ms

Remote clock offset: 0.41 ms

Below is generated by plot.py at 2018-12-02 06:42:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 33.392 ms

Loss rate: 24.23%

-- Flow 1:

Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 33.333 ms

Loss rate: 14.68%

-- Flow 2:

Average throughput: 25.79 Mbit/s

95th percentile per-packet one-way delay: 32.094 ms

Loss rate: 39.21%

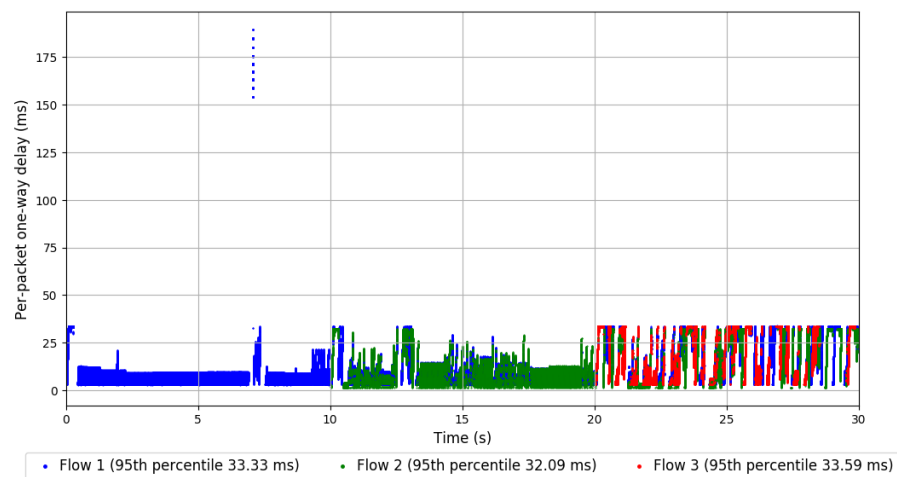
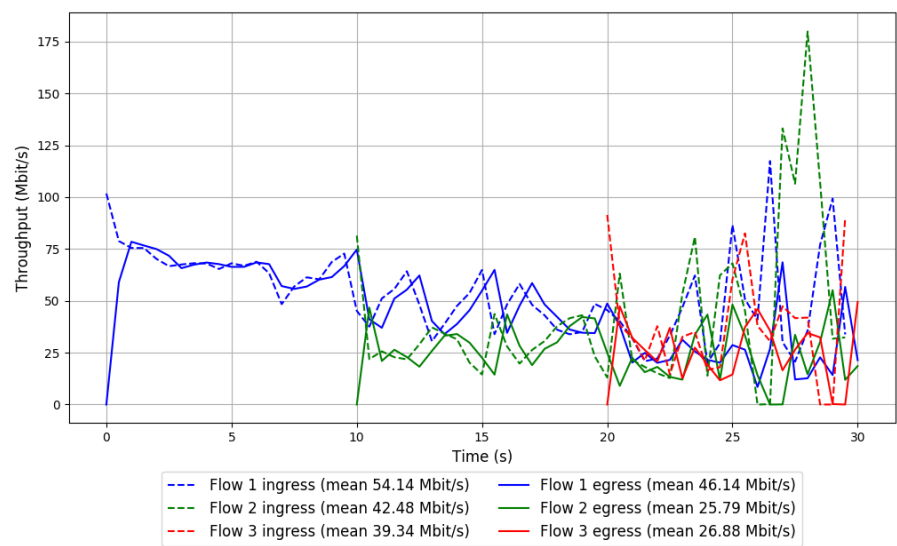
-- Flow 3:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 33.588 ms

Loss rate: 31.50%

Run 5: Report of Verus — Data Link

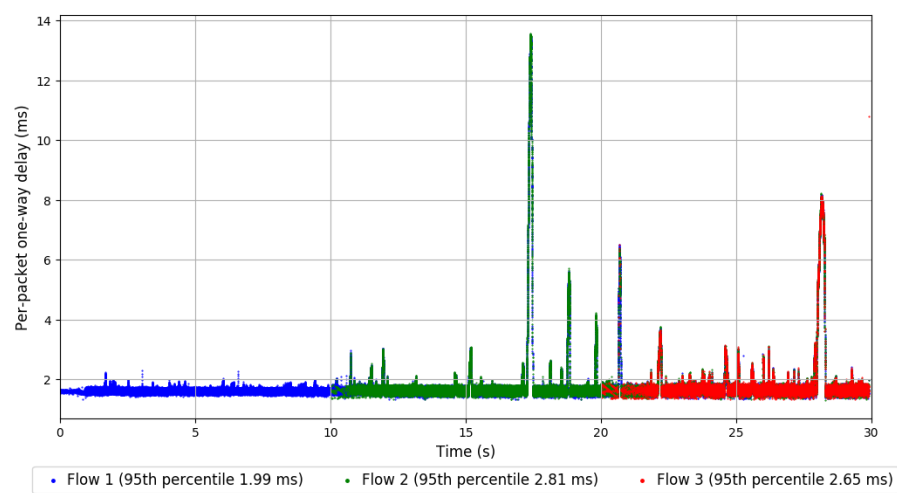
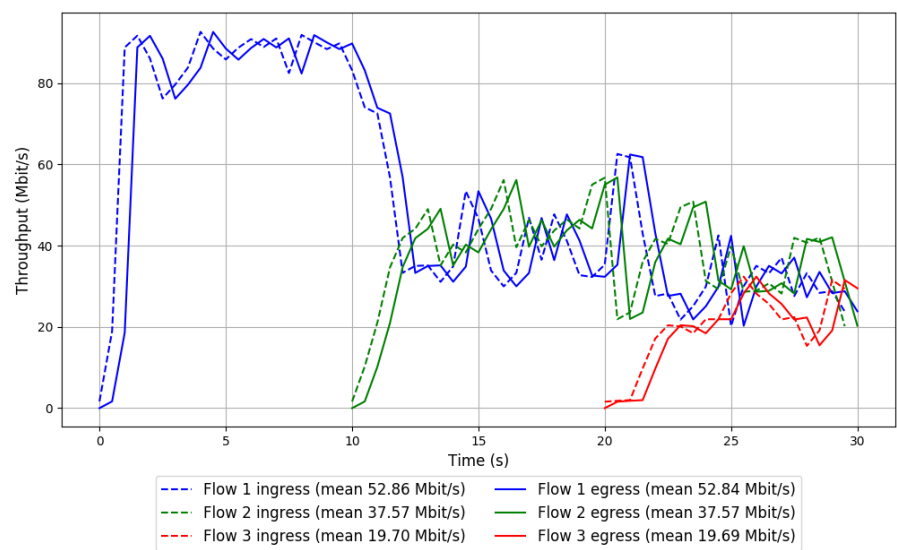


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-02 04:52:24
End at: 2018-12-02 04:52:54
Local clock offset: -2.68 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-12-02 06:42:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 2.275 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 1.994 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.57 Mbit/s
95th percentile per-packet one-way delay: 2.814 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.69 Mbit/s
95th percentile per-packet one-way delay: 2.653 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

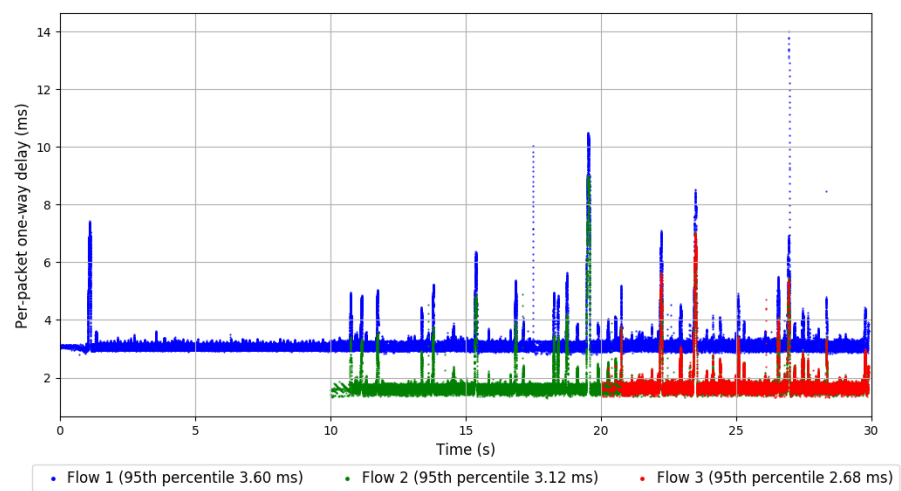
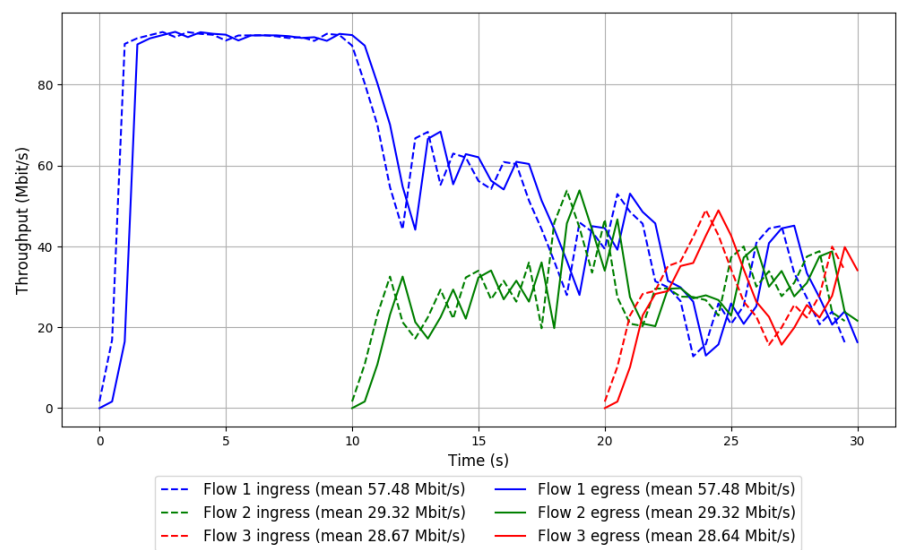


Run 2: Statistics of PCC-Vivace

Start at: 2018-12-02 05:13:57
End at: 2018-12-02 05:14:27
Local clock offset: -3.472 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-12-02 06:42:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.45 Mbit/s
95th percentile per-packet one-way delay: 3.444 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 3.600 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 3.122 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 2.680 ms
Loss rate: 0.10%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-12-02 05:35:30

End at: 2018-12-02 05:36:00

Local clock offset: 1.859 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-12-02 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.06 Mbit/s

95th percentile per-packet one-way delay: 2.810 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.87 Mbit/s

95th percentile per-packet one-way delay: 2.925 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 2.181 ms

Loss rate: 0.00%

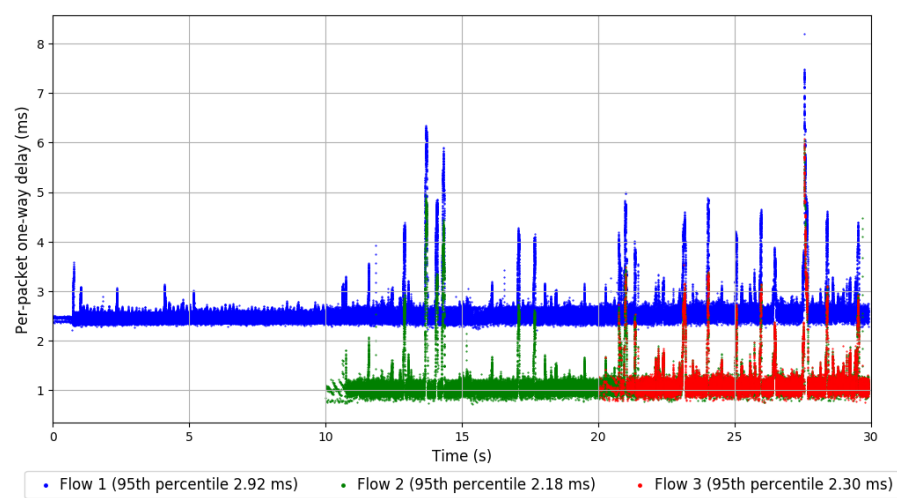
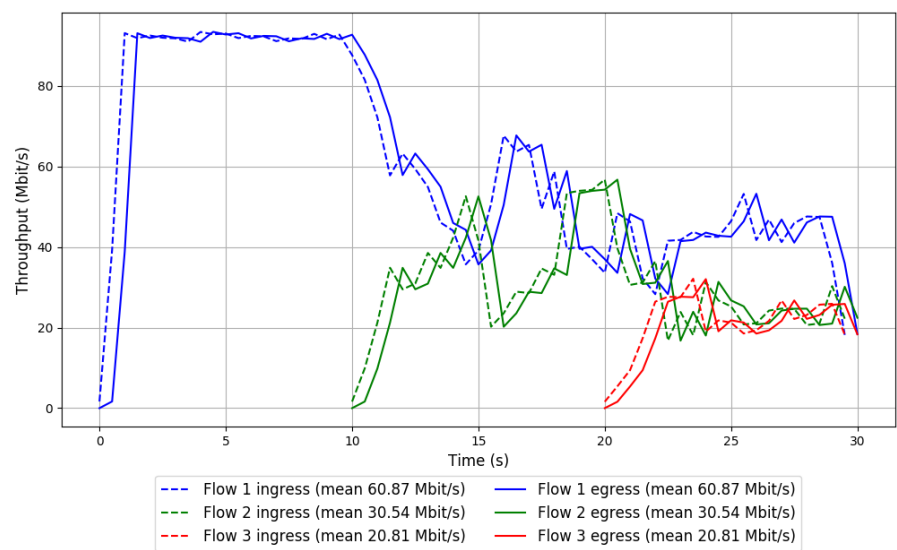
-- Flow 3:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 2.304 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-12-02 05:57:02

End at: 2018-12-02 05:57:32

Local clock offset: -0.95 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-12-02 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.00 Mbit/s

95th percentile per-packet one-way delay: 2.904 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 2.594 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 3.406 ms

Loss rate: 0.01%

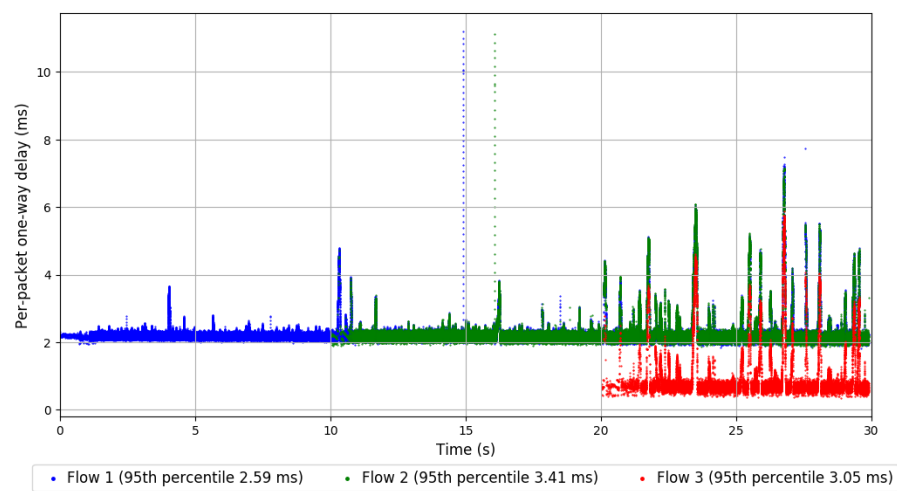
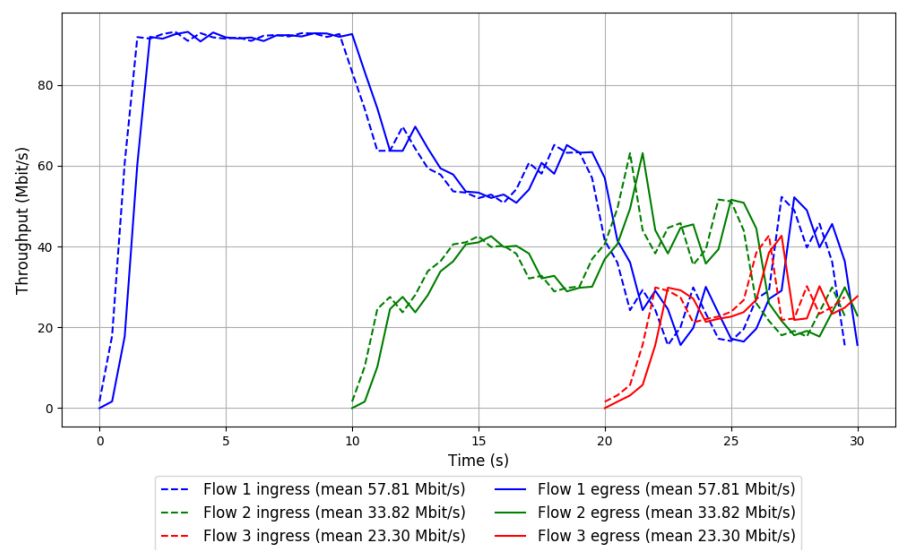
-- Flow 3:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 3.054 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-12-02 06:18:36

End at: 2018-12-02 06:19:06

Local clock offset: -3.979 ms

Remote clock offset: 0.591 ms

Below is generated by plot.py at 2018-12-02 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.27 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 2.306 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.48 Mbit/s

95th percentile per-packet one-way delay: 4.332 ms

Loss rate: 0.01%

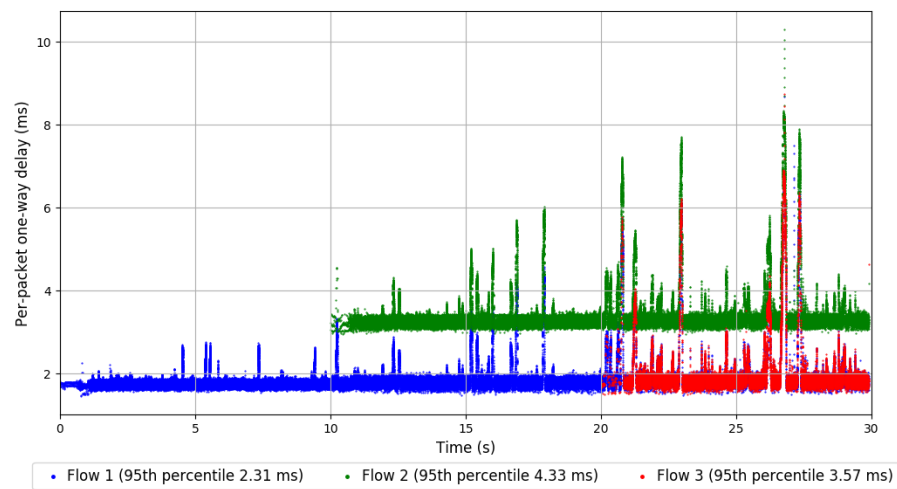
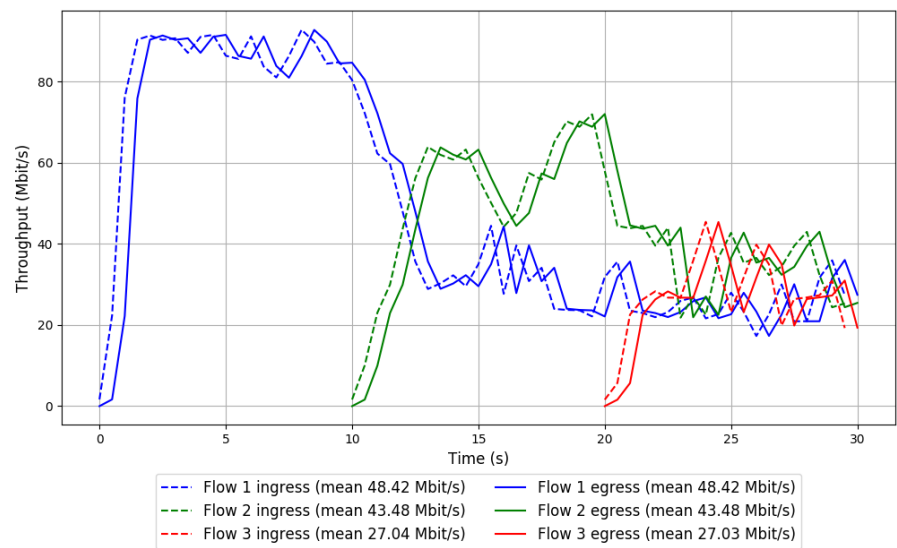
-- Flow 3:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 3.574 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

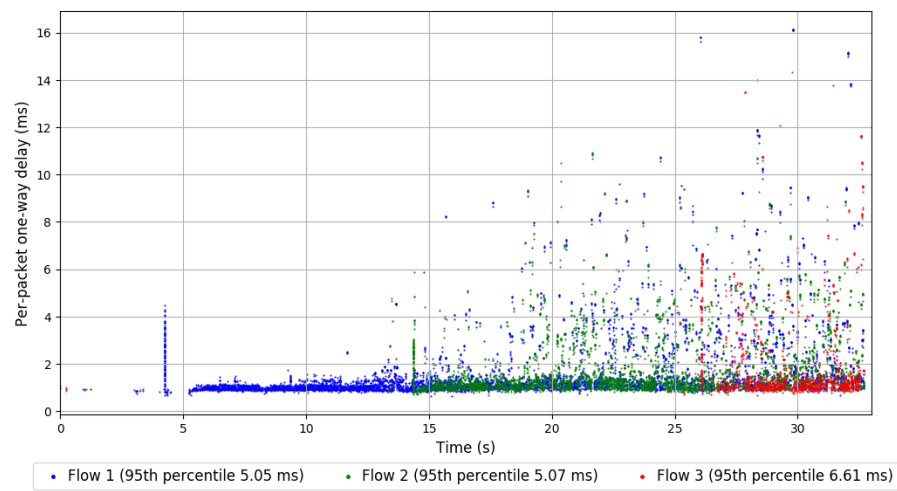
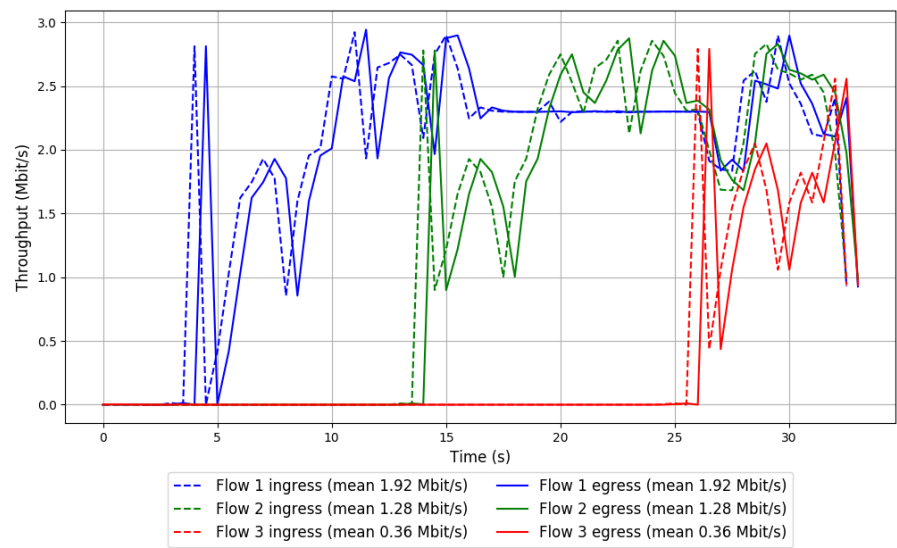


Run 1: Statistics of WebRTC media

Start at: 2018-12-02 04:51:19
End at: 2018-12-02 04:51:49
Local clock offset: -1.777 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-12-02 06:42:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 5.360 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 5.055 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 5.074 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 6.606 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-02 05:12:52

End at: 2018-12-02 05:13:22

Local clock offset: -3.466 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-12-02 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 7.012 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 7.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 6.310 ms

Loss rate: 0.00%

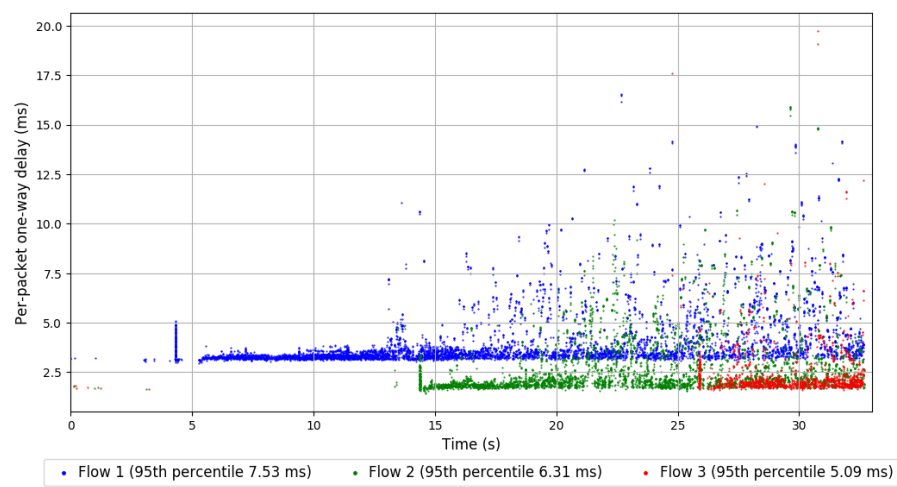
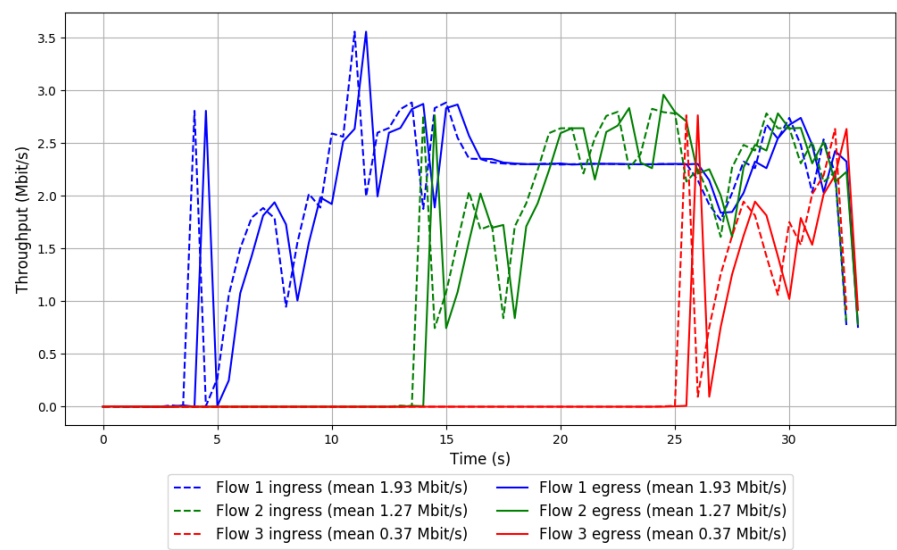
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 5.090 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-12-02 05:34:24

End at: 2018-12-02 05:34:54

Local clock offset: 1.739 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-12-02 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 5.090 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 4.684 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 5.271 ms

Loss rate: 0.00%

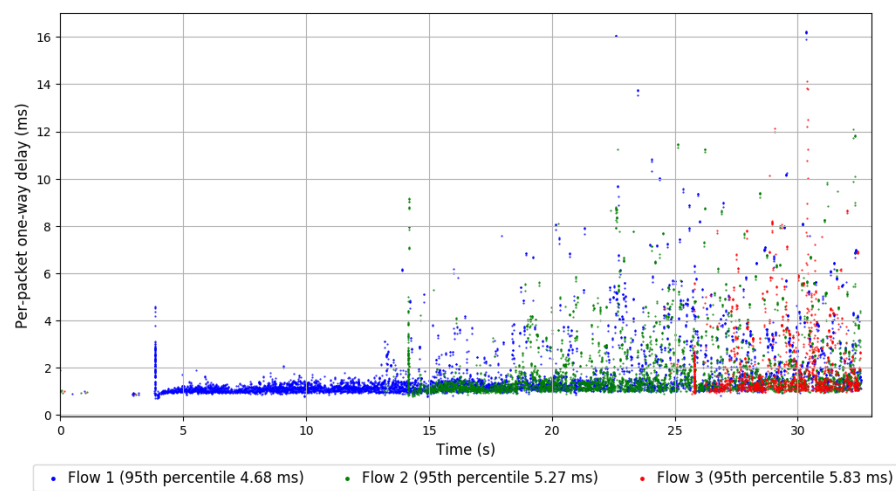
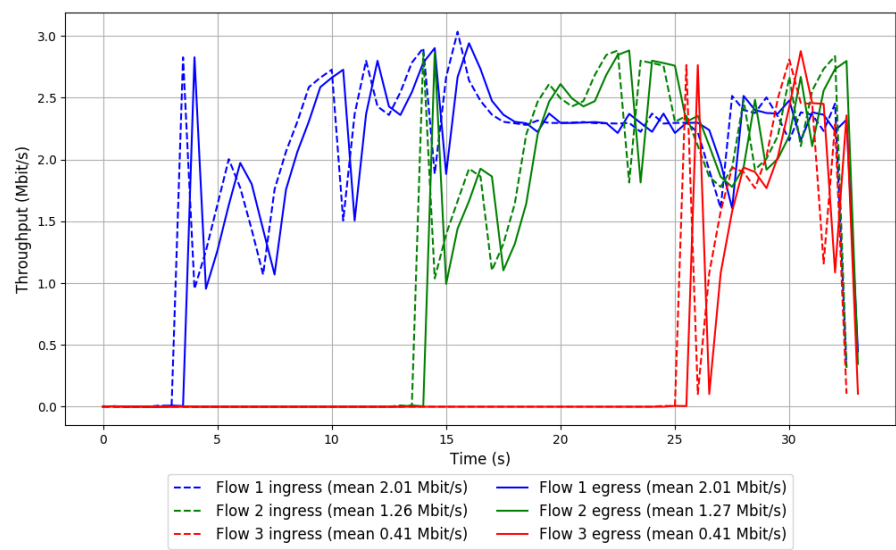
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 5.829 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-12-02 05:55:57

End at: 2018-12-02 05:56:27

Local clock offset: -1.408 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2018-12-02 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 7.389 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 7.219 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 7.571 ms

Loss rate: 0.14%

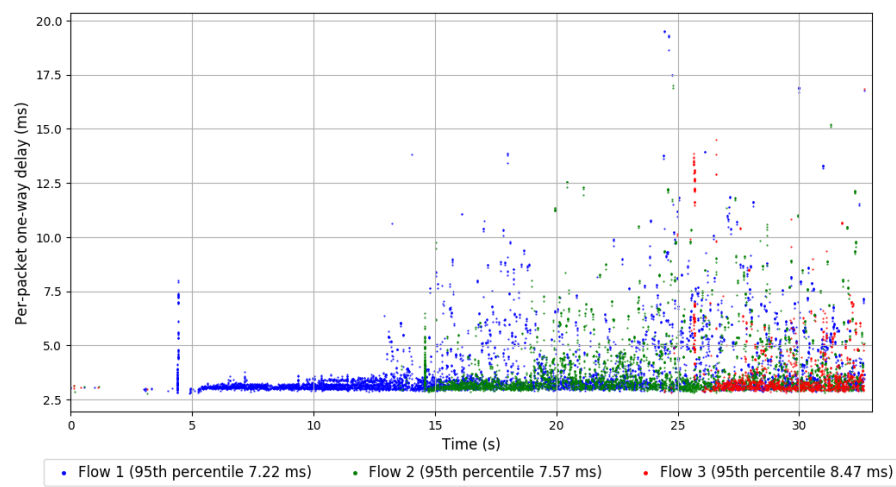
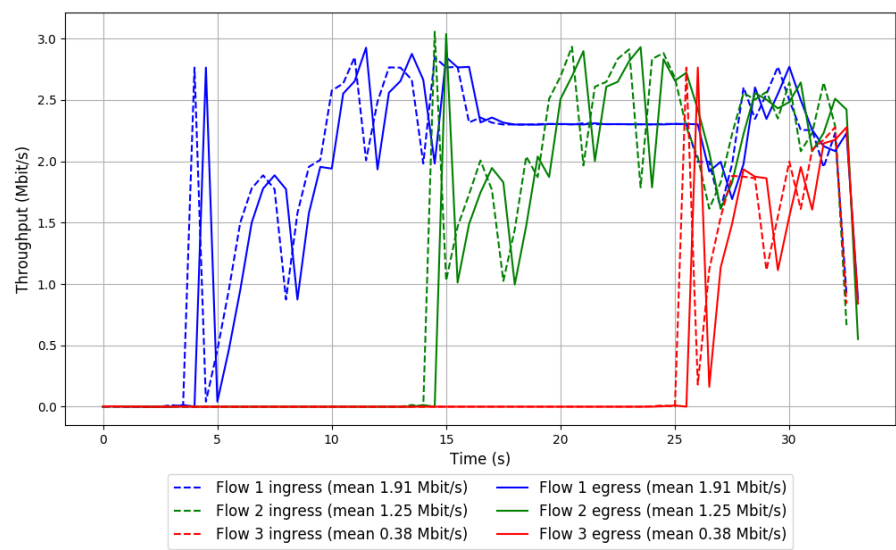
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 8.468 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-02 06:17:31

End at: 2018-12-02 06:18:01

Local clock offset: -3.166 ms

Remote clock offset: 0.669 ms

Below is generated by plot.py at 2018-12-02 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 5.017 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 5.186 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 5.803 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

