

Pantheon Report

Generated at 2018-12-20 03:43:52 (UTC).

Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia 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:

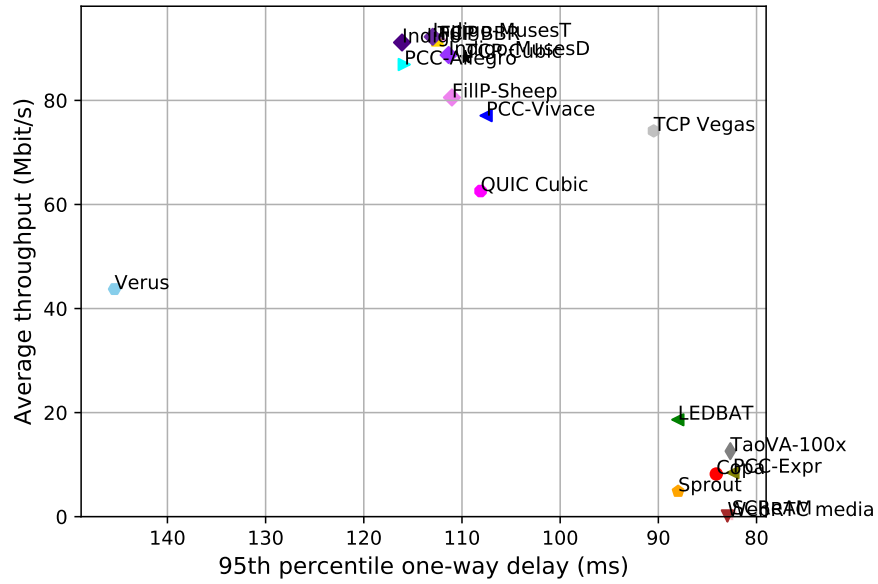
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

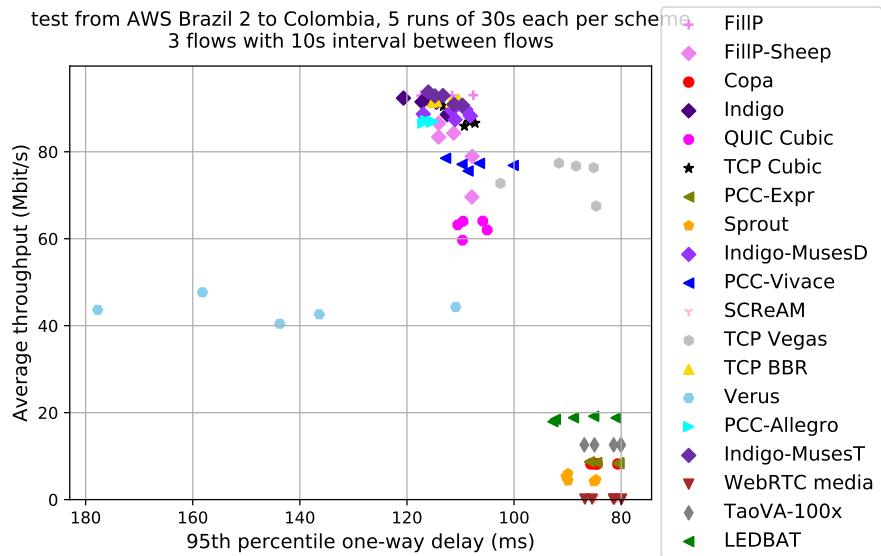
```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
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 2 to Colombia, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	55.51	38.57	31.32	112.23	112.17	112.53	12.74	19.98	27.07
Copa	5	0.00	10.34	3.99	83.74	84.29	83.03	98.31	75.84	71.65
TCP Cubic	5	64.86	23.57	22.99	108.80	110.24	109.07	0.89	0.23	0.27
FillP	5	54.95	42.63	25.21	110.50	110.62	111.00	15.81	26.14	24.11
FillP-Sheep	5	24.92	69.76	27.75	105.76	111.18	112.83	6.13	6.64	14.24
Indigo	5	64.78	26.11	28.73	115.84	115.45	115.20	9.47	32.82	63.22
Indigo-MusesD	5	70.00	20.62	15.48	112.14	108.66	108.92	3.24	1.11	2.15
Indigo-MusesT	5	63.88	29.68	28.70	112.53	113.00	112.72	7.64	14.51	17.39
LEDBAT	5	12.04	7.99	3.91	86.84	86.91	87.04	0.02	0.00	0.00
PCC-Allegro	5	77.87	9.49	8.23	115.56	115.77	117.10	2.88	4.57	5.07
PCC-Expr	5	0.01	9.43	6.62	82.93	82.40	82.42	85.71	59.74	30.93
QUIC Cubic	5	46.20	18.36	12.88	108.63	107.07	98.20	0.90	0.50	1.66
SCReAM	5	0.22	0.22	0.22	81.09	82.28	81.08	0.00	0.00	0.00
Sprout	5	2.78	2.36	1.63	88.12	87.76	86.59	0.01	0.00	0.00
TaoVA-100x	5	7.92	4.92	4.22	88.58	81.75	81.73	32.06	45.26	62.15
TCP Vegas	5	44.20	25.66	38.60	90.86	93.70	87.67	0.99	0.82	1.07
Verus	5	25.88	19.23	18.41	132.57	128.97	123.89	43.25	38.88	29.79
PCC-Vivace	5	65.44	13.71	7.65	107.55	105.05	107.03	0.26	0.48	0.32
WebRTC media	5	0.05	0.04	0.04	82.45	83.05	82.69	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-12-20 01:48:18

End at: 2018-12-20 01:48:48

Local clock offset: -0.984 ms

Remote clock offset: 4.777 ms

Below is generated by plot.py at 2018-12-20 03:36:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 111.852 ms

Loss rate: 16.78%

-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 111.194 ms

Loss rate: 13.70%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 110.216 ms

Loss rate: 20.78%

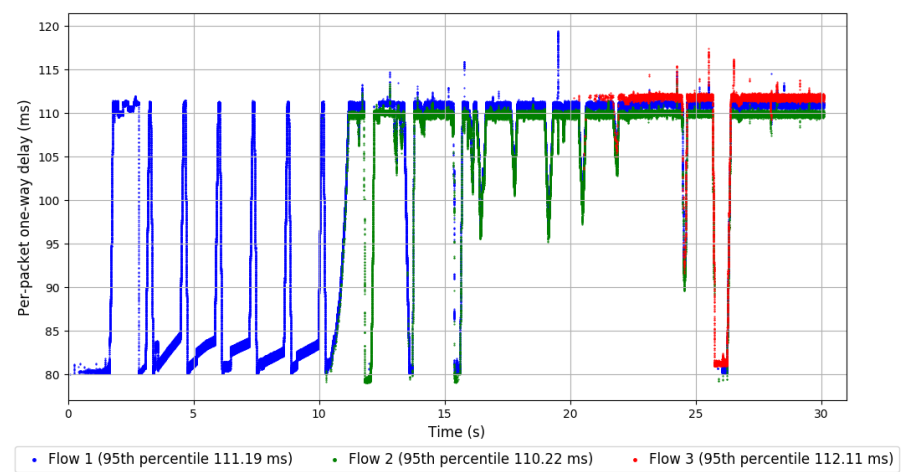
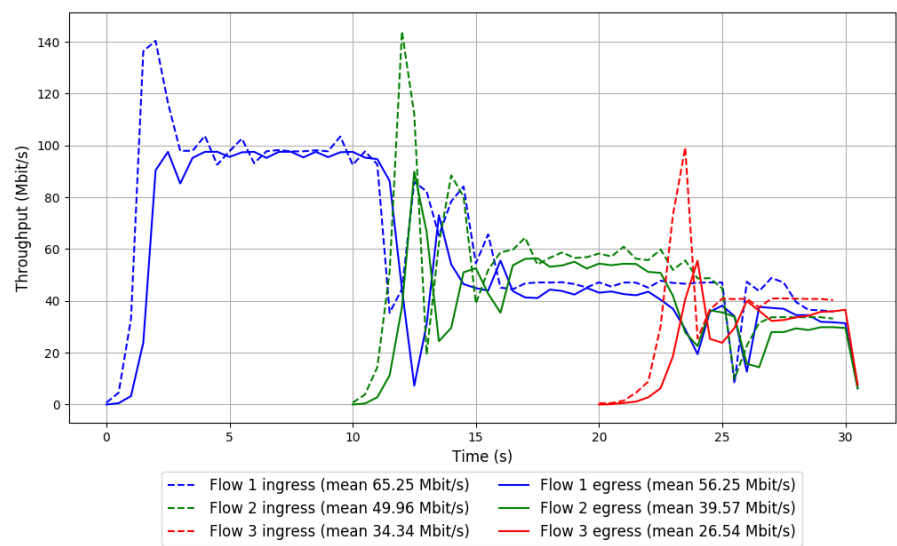
-- Flow 3:

Average throughput: 26.54 Mbit/s

95th percentile per-packet one-way delay: 112.112 ms

Loss rate: 22.72%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-12-20 02:12:21

End at: 2018-12-20 02:12:51

Local clock offset: -4.224 ms

Remote clock offset: 7.505 ms

Below is generated by plot.py at 2018-12-20 03:36:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 115.237 ms

Loss rate: 14.66%

-- Flow 1:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 115.111 ms

Loss rate: 11.75%

-- Flow 2:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 115.135 ms

Loss rate: 16.70%

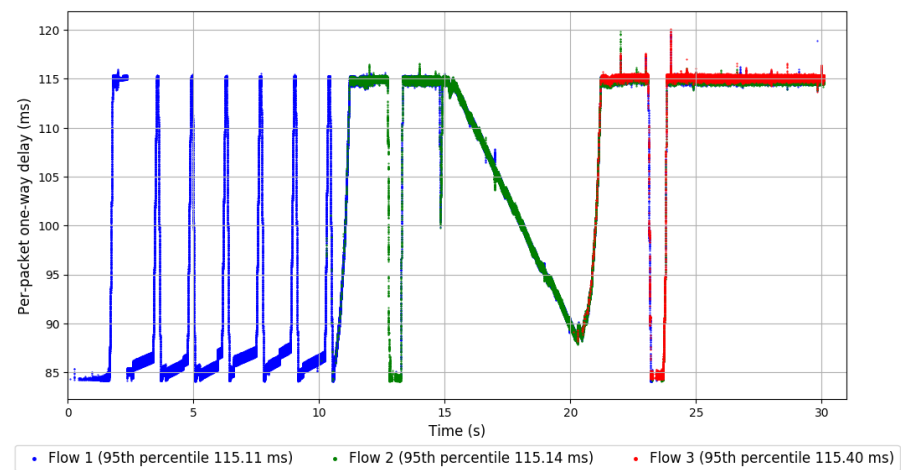
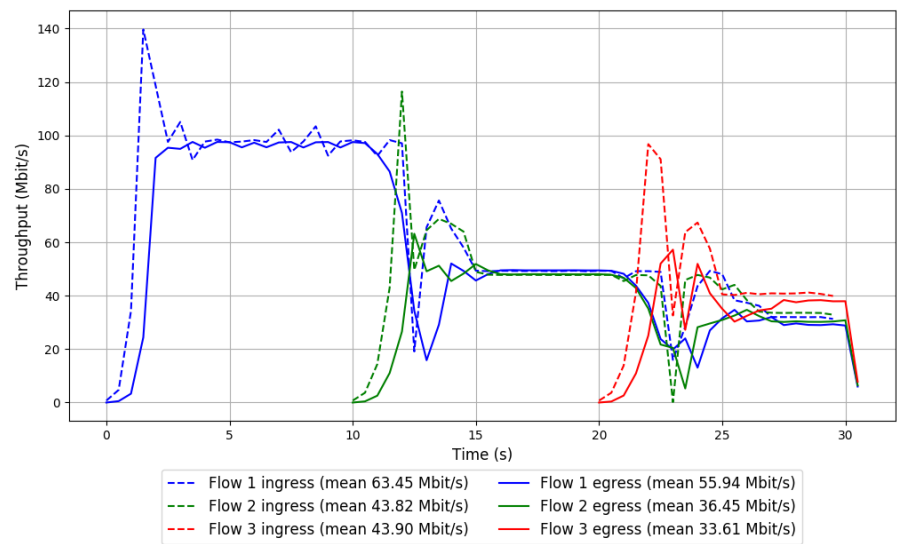
-- Flow 3:

Average throughput: 33.61 Mbit/s

95th percentile per-packet one-way delay: 115.399 ms

Loss rate: 23.24%

Run 2: Report of TCP BBR — Data Link

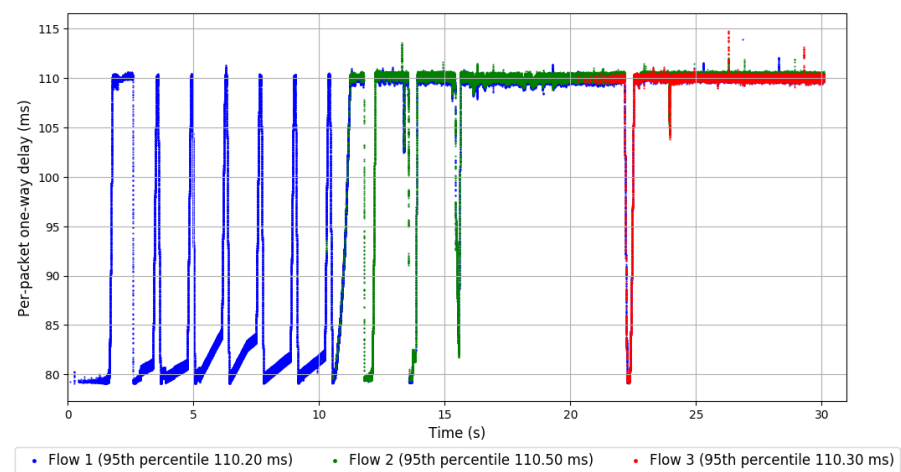
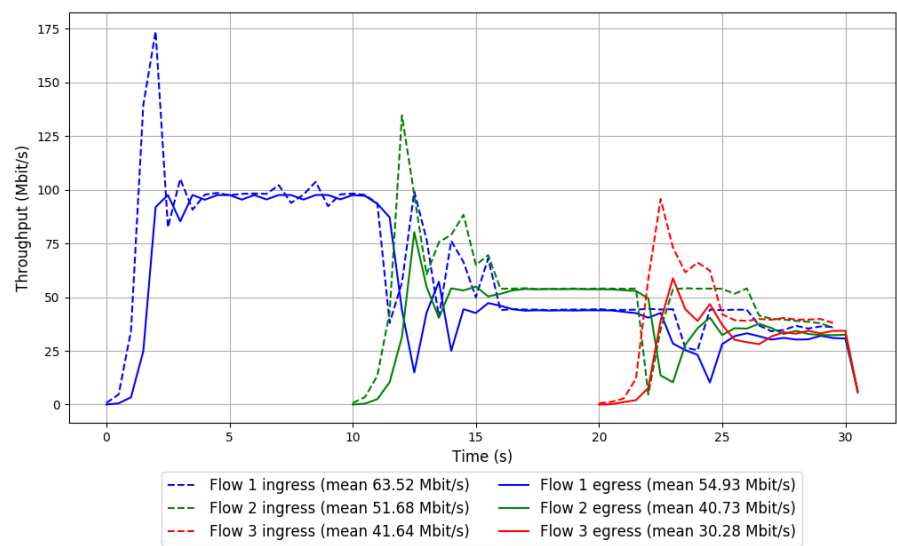


Run 3: Statistics of TCP BBR

Start at: 2018-12-20 02:36:22
End at: 2018-12-20 02:36:52
Local clock offset: -7.563 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-12-20 03:36:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.13 Mbit/s
95th percentile per-packet one-way delay: 110.393 ms
Loss rate: 17.50%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 110.201 ms
Loss rate: 13.43%
-- Flow 2:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 110.502 ms
Loss rate: 21.08%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 110.300 ms
Loss rate: 27.29%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-12-20 03:00:26

End at: 2018-12-20 03:00:56

Local clock offset: -7.324 ms

Remote clock offset: 1.537 ms

Below is generated by plot.py at 2018-12-20 03:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.63 Mbit/s

95th percentile per-packet one-way delay: 114.462 ms

Loss rate: 16.45%

-- Flow 1:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 114.239 ms

Loss rate: 12.53%

-- Flow 2:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 114.513 ms

Loss rate: 19.04%

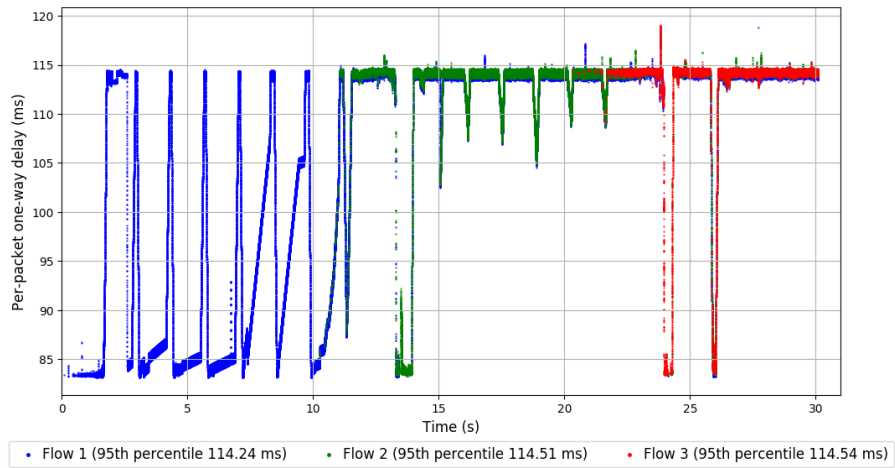
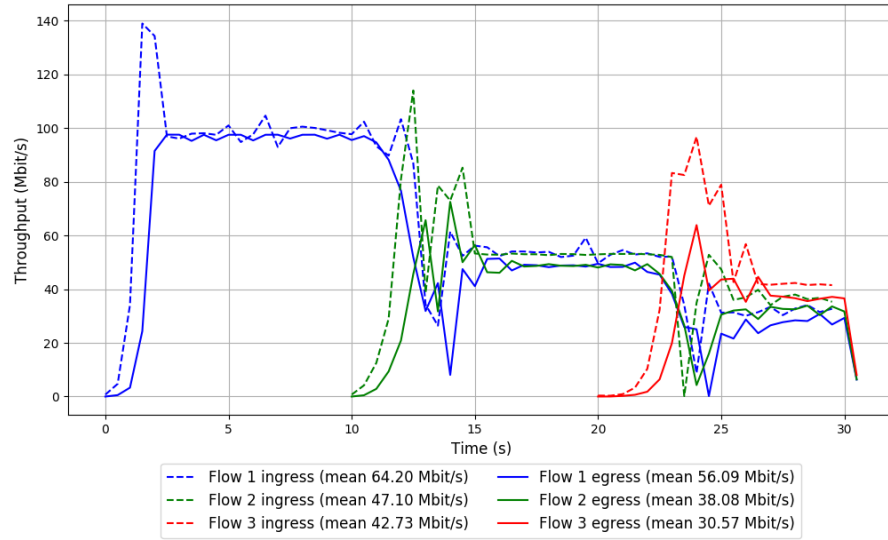
-- Flow 3:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: 114.544 ms

Loss rate: 28.45%

Run 4: Report of TCP BBR — Data Link

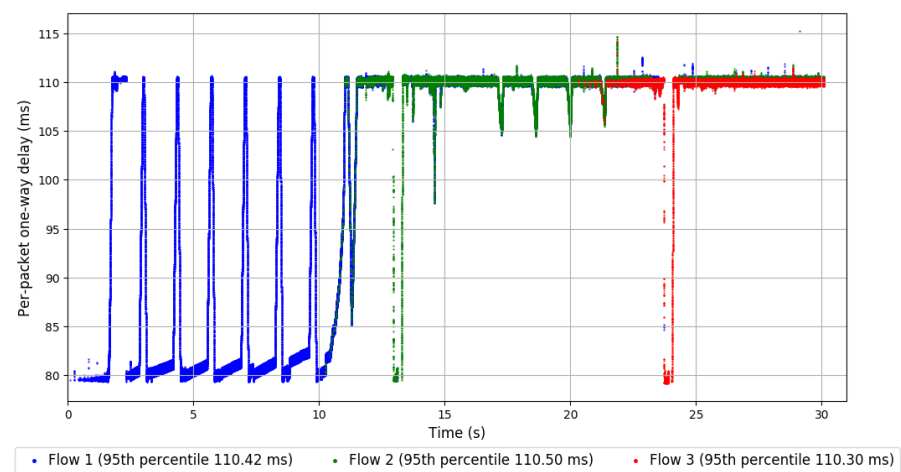
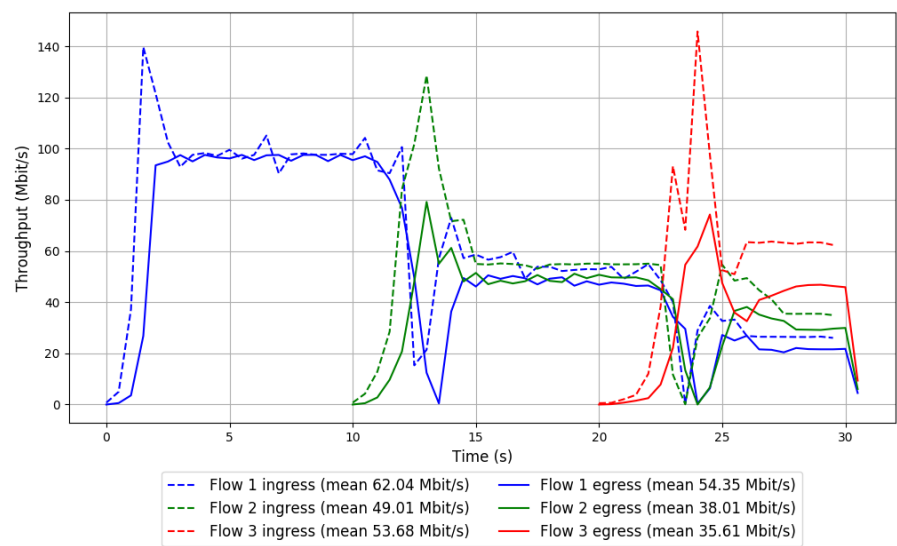


Run 5: Statistics of TCP BBR

Start at: 2018-12-20 03:24:29
End at: 2018-12-20 03:24:59
Local clock offset: -6.919 ms
Remote clock offset: -4.897 ms

Below is generated by plot.py at 2018-12-20 03:36:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 110.454 ms
Loss rate: 18.59%
-- Flow 1:
Average throughput: 54.35 Mbit/s
95th percentile per-packet one-way delay: 110.423 ms
Loss rate: 12.30%
-- Flow 2:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 110.502 ms
Loss rate: 22.32%
-- Flow 3:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 110.300 ms
Loss rate: 33.66%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-12-20 01:40:47

End at: 2018-12-20 01:41:17

Local clock offset: -0.703 ms

Remote clock offset: 9.639 ms

Below is generated by plot.py at 2018-12-20 03:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 84.622 ms

Loss rate: 74.94%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.062 ms

Loss rate: 98.60%

-- Flow 2:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 84.768 ms

Loss rate: 75.74%

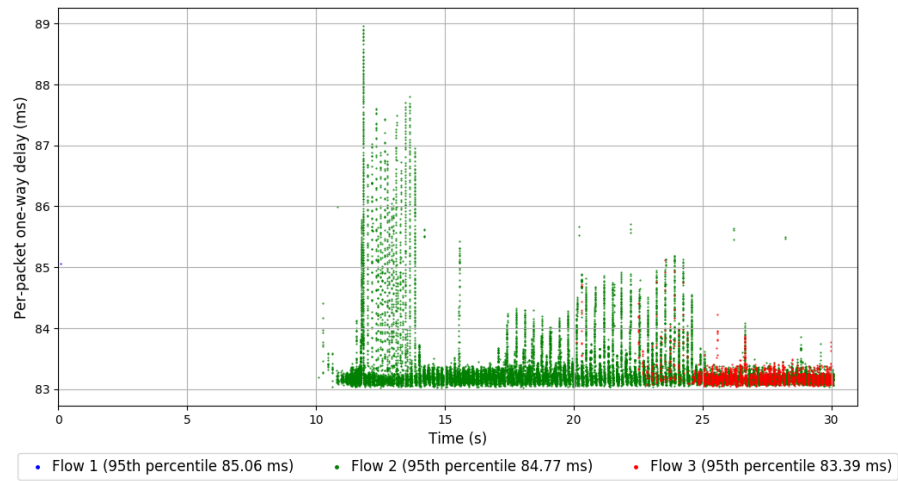
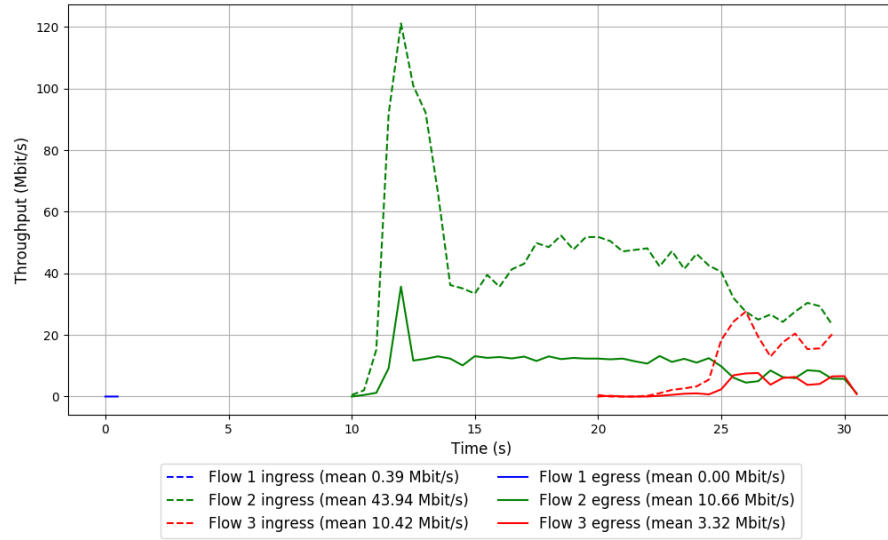
-- Flow 3:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 83.388 ms

Loss rate: 68.13%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-20 02:04:50

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

Local clock offset: -0.772 ms

Remote clock offset: 6.982 ms

Below is generated by plot.py at 2018-12-20 03:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 84.472 ms

Loss rate: 76.29%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.437 ms

Loss rate: 97.24%

-- Flow 2:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 84.775 ms

Loss rate: 75.75%

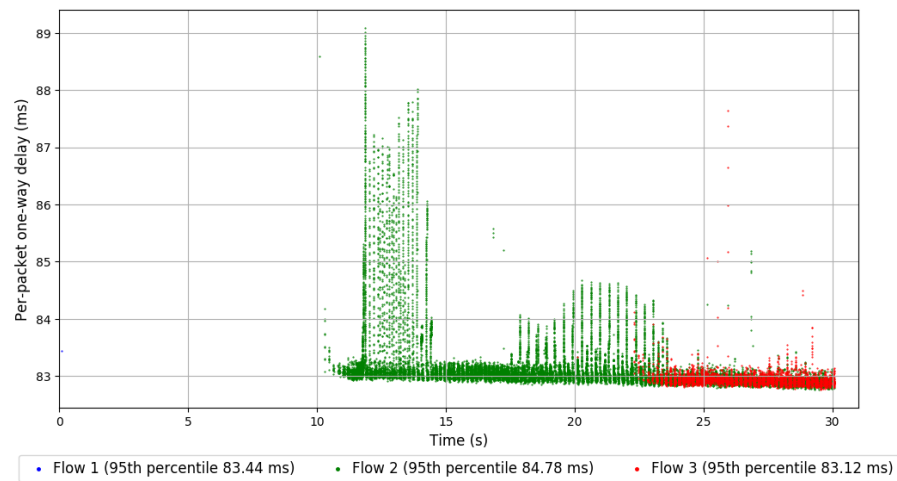
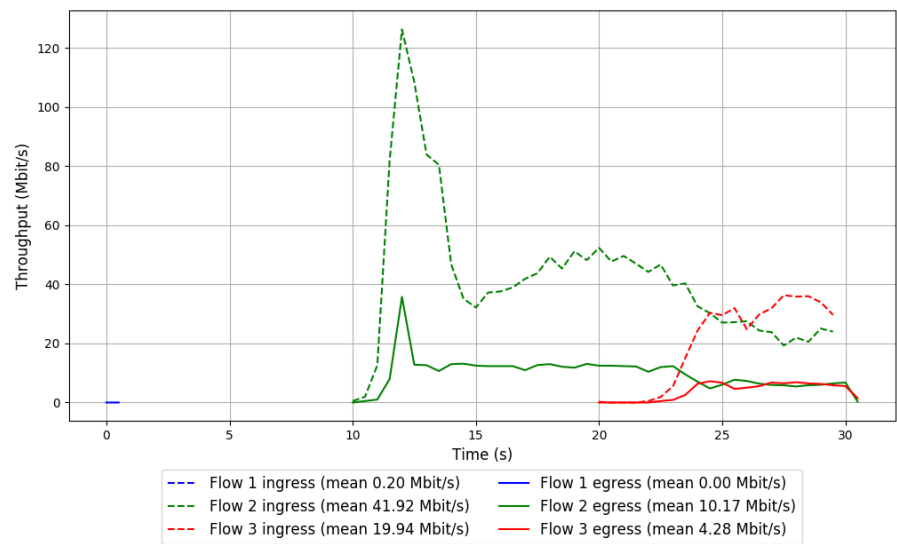
-- Flow 3:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 83.119 ms

Loss rate: 78.56%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-12-20 02:28:52

End at: 2018-12-20 02:29:22

Local clock offset: -7.183 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2018-12-20 03:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 80.649 ms

Loss rate: 76.06%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 79.839 ms

Loss rate: 98.60%

-- Flow 2:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 80.655 ms

Loss rate: 76.34%

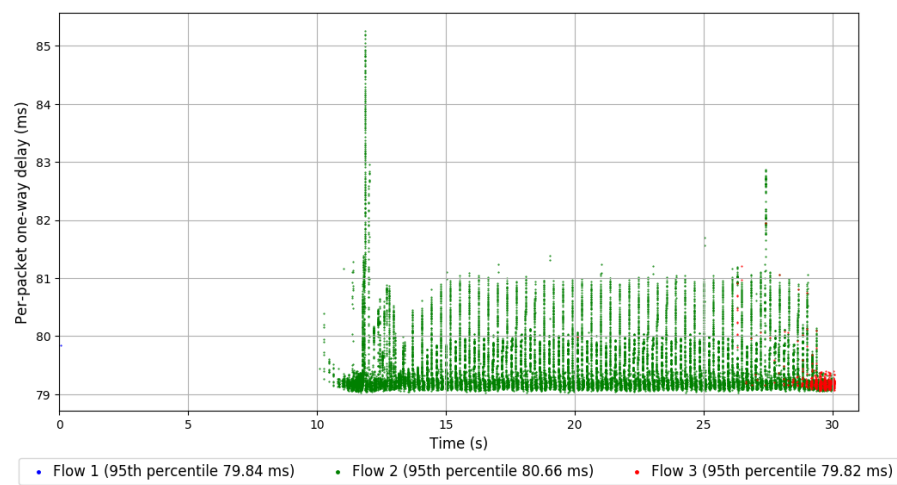
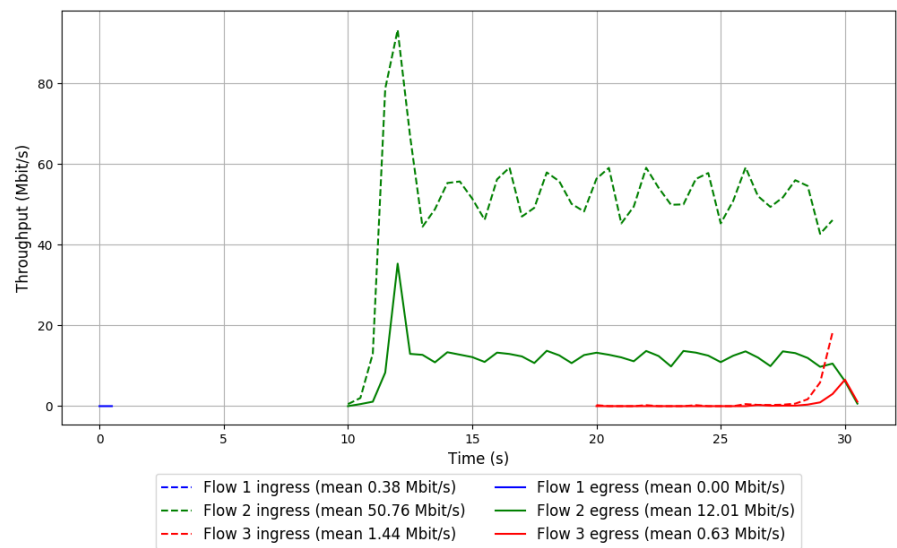
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 79.819 ms

Loss rate: 56.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-12-20 02:52:56

End at: 2018-12-20 02:53:26

Local clock offset: -7.14 ms

Remote clock offset: 3.11 ms

Below is generated by plot.py at 2018-12-20 03:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 85.075 ms

Loss rate: 75.84%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 84.997 ms

Loss rate: 98.80%

-- Flow 2:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 85.288 ms

Loss rate: 75.97%

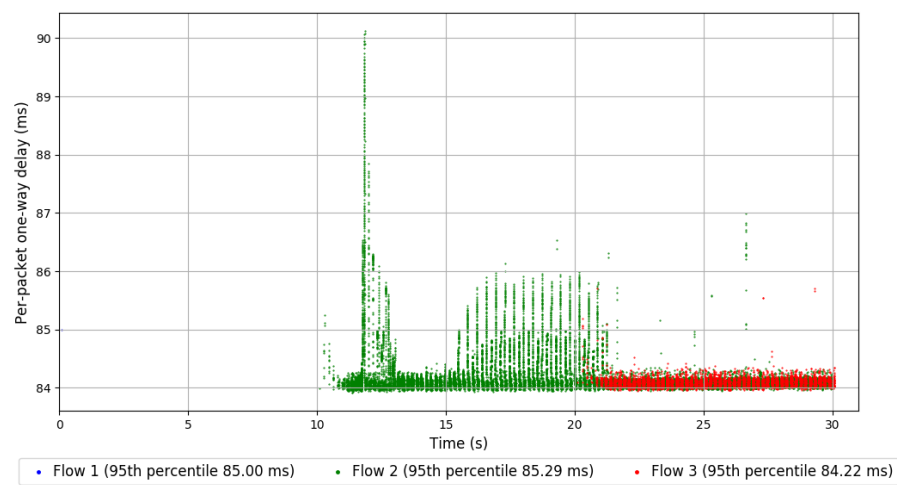
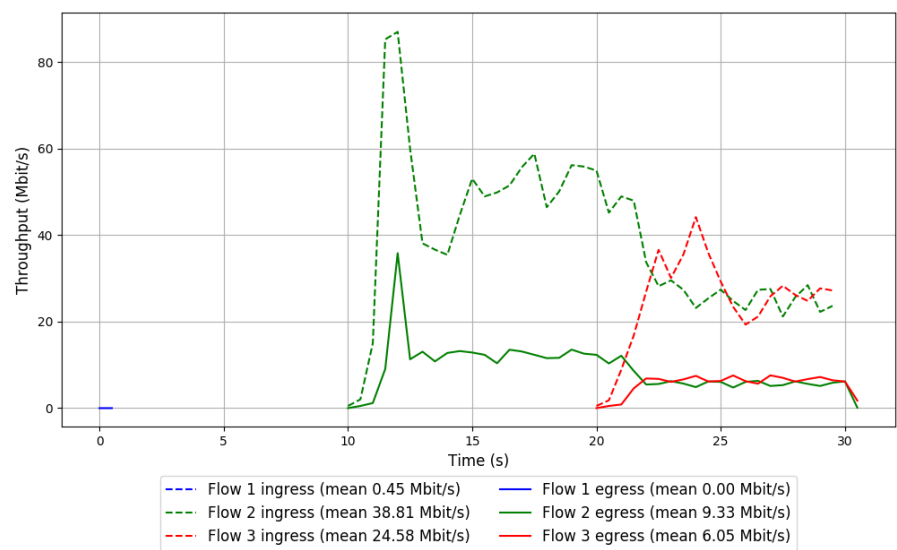
-- Flow 3:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 84.225 ms

Loss rate: 75.41%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-20 03:16:59

End at: 2018-12-20 03:17:29

Local clock offset: -6.91 ms

Remote clock offset: 0.965 ms

Below is generated by plot.py at 2018-12-20 03:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 85.681 ms

Loss rate: 76.68%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.374 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 85.965 ms

Loss rate: 75.42%

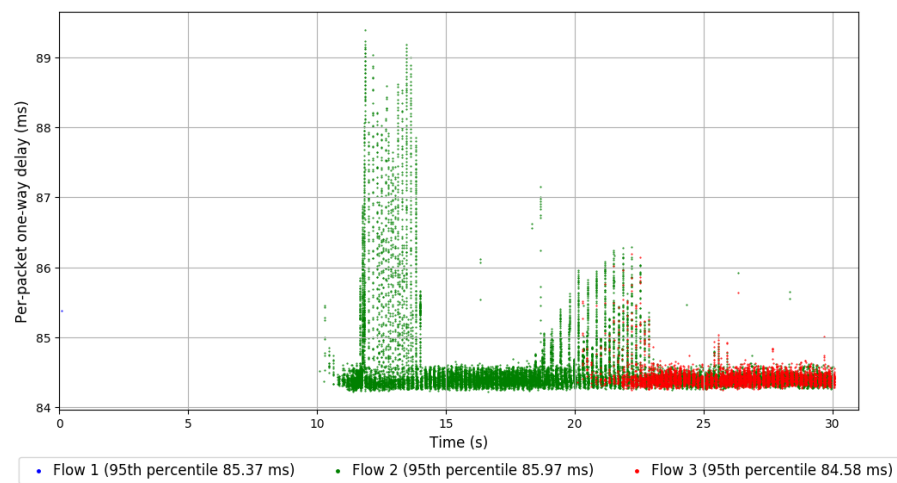
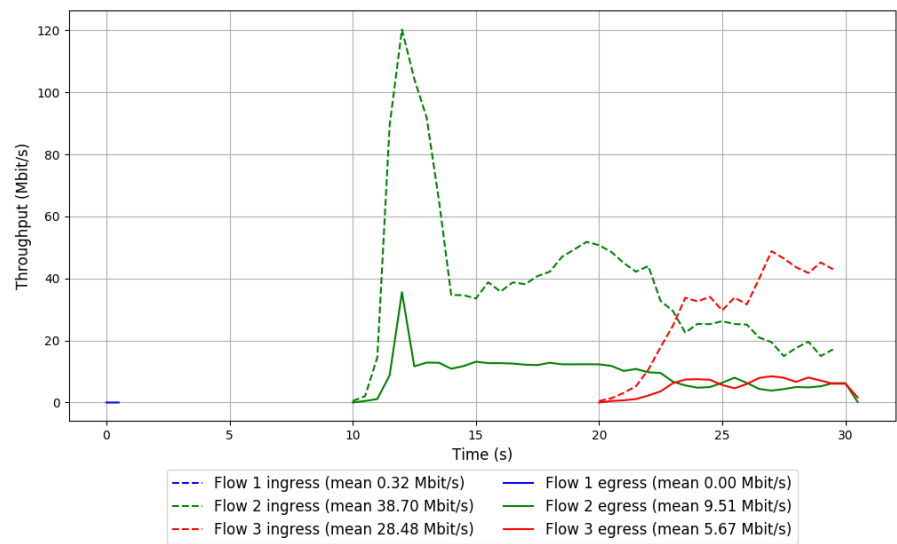
-- Flow 3:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 84.584 ms

Loss rate: 80.10%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-12-20 01:38:17

End at: 2018-12-20 01:38:47

Local clock offset: -0.554 ms

Remote clock offset: 7.155 ms

Below is generated by plot.py at 2018-12-20 03:36:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 107.296 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 105.802 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 18.29 Mbit/s

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

Loss rate: 0.22%

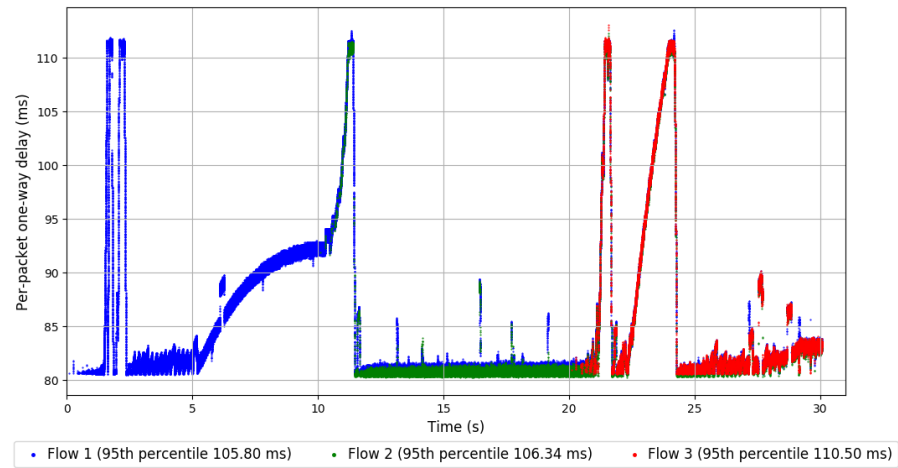
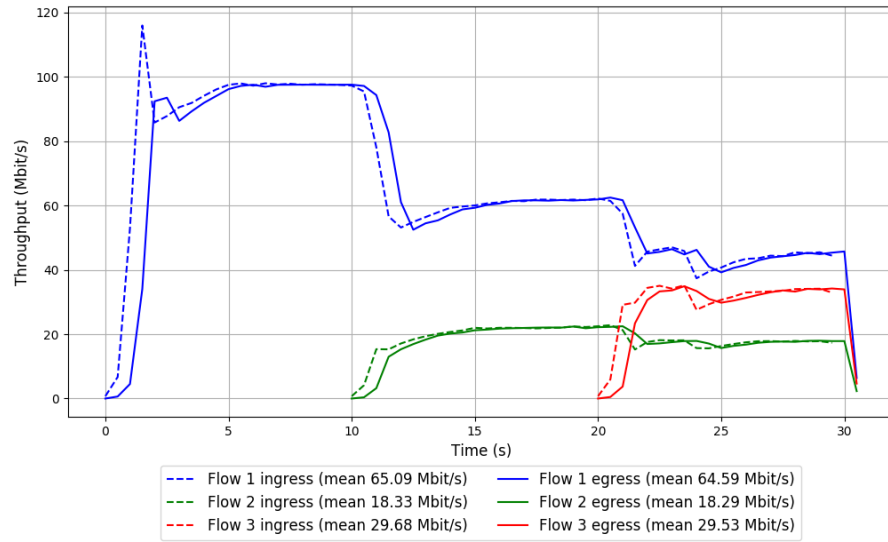
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 110.501 ms

Loss rate: 0.48%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-20 02:02:21

End at: 2018-12-20 02:02:51

Local clock offset: -0.831 ms

Remote clock offset: 4.546 ms

Below is generated by plot.py at 2018-12-20 03:36:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 109.273 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 109.365 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 109.593 ms

Loss rate: 0.48%

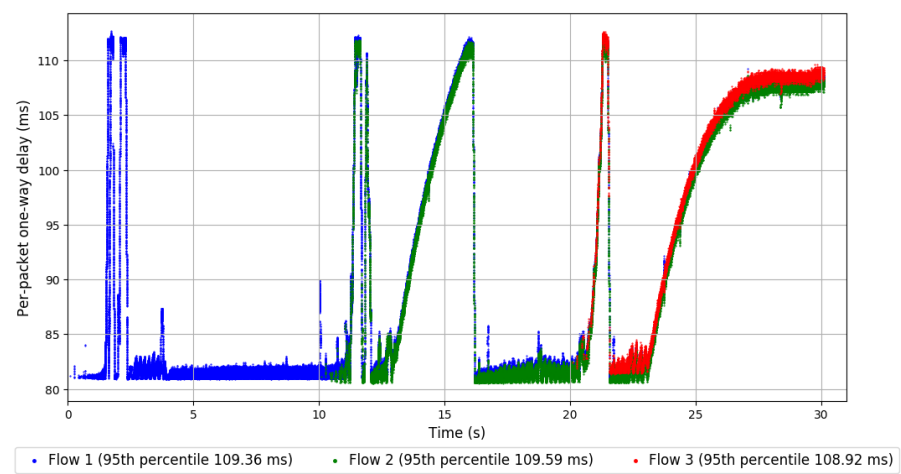
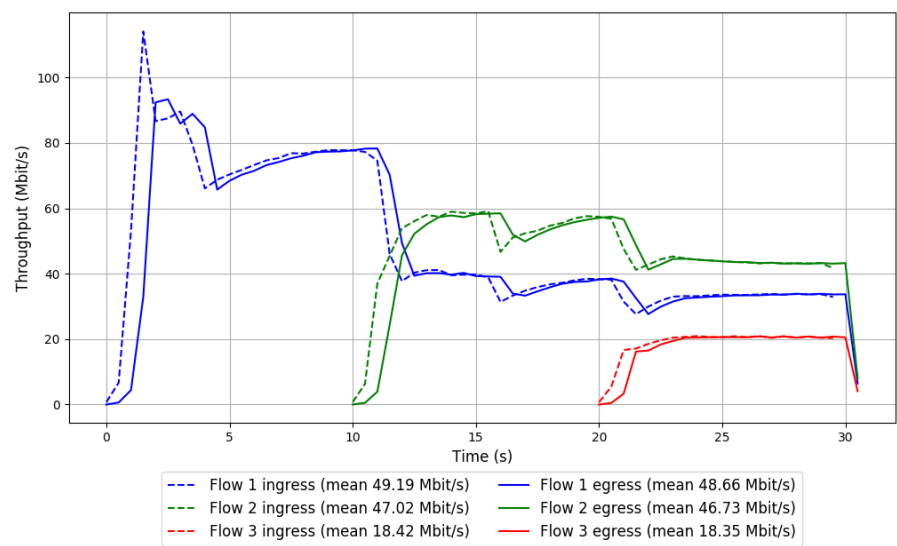
-- Flow 3:

Average throughput: 18.35 Mbit/s

95th percentile per-packet one-way delay: 108.918 ms

Loss rate: 0.10%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-12-20 02:26:23

End at: 2018-12-20 02:26:53

Local clock offset: -6.95 ms

Remote clock offset: 4.806 ms

Below is generated by plot.py at 2018-12-20 03:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 110.022 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 110.127 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 16.65 Mbit/s

95th percentile per-packet one-way delay: 111.137 ms

Loss rate: 0.18%

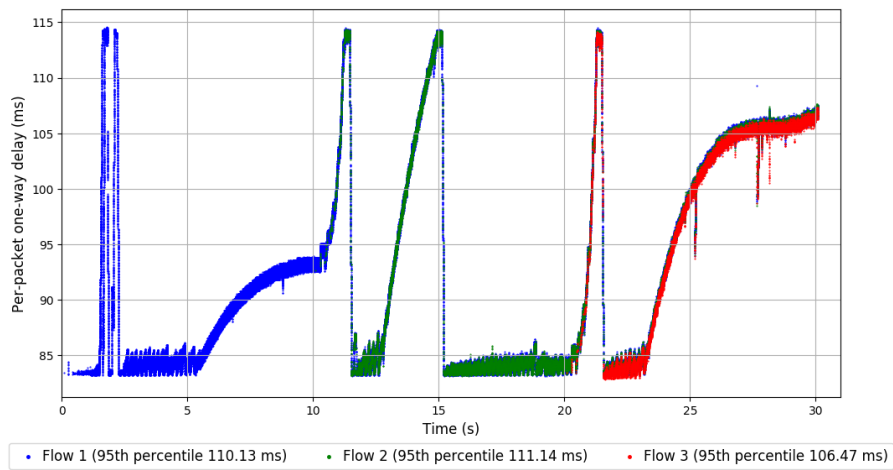
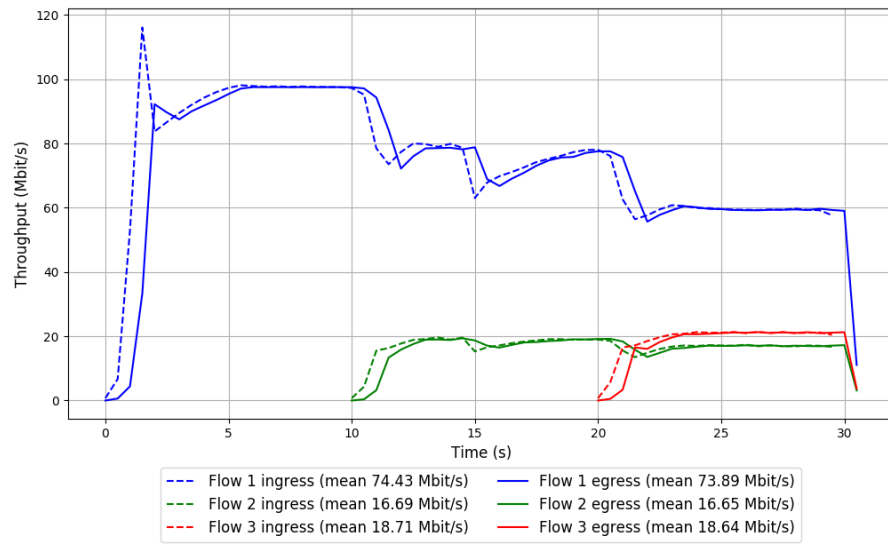
-- Flow 3:

Average throughput: 18.64 Mbit/s

95th percentile per-packet one-way delay: 106.471 ms

Loss rate: 0.12%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-12-20 02:50:26

End at: 2018-12-20 02:50:56

Local clock offset: -7.161 ms

Remote clock offset: 2.71 ms

Below is generated by plot.py at 2018-12-20 03:37:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.48 Mbit/s

95th percentile per-packet one-way delay: 113.190 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 72.50 Mbit/s

95th percentile per-packet one-way delay: 113.335 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 17.48 Mbit/s

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

Loss rate: 0.09%

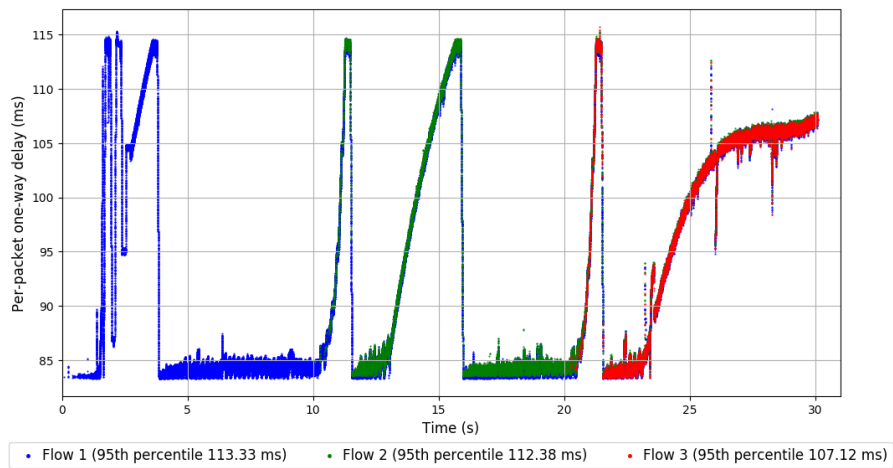
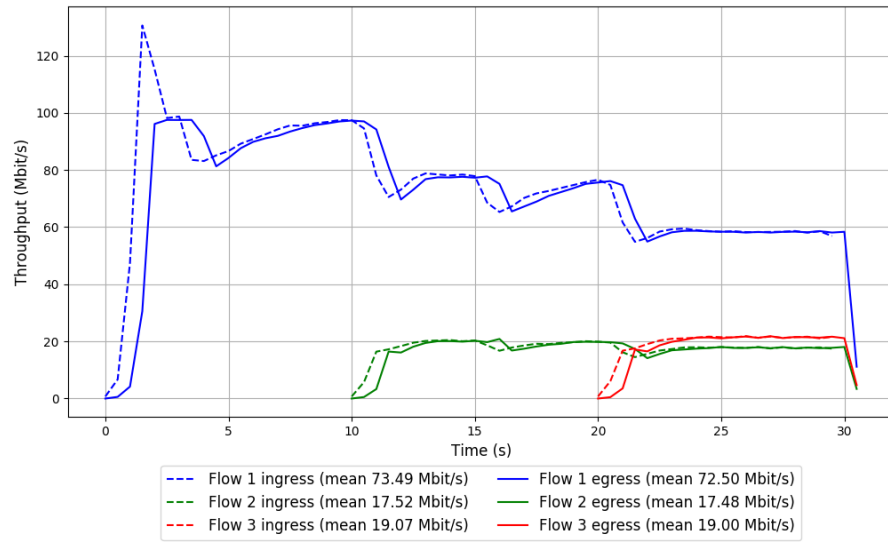
-- Flow 3:

Average throughput: 19.00 Mbit/s

95th percentile per-packet one-way delay: 107.116 ms

Loss rate: 0.13%

Run 4: Report of TCP Cubic — Data Link

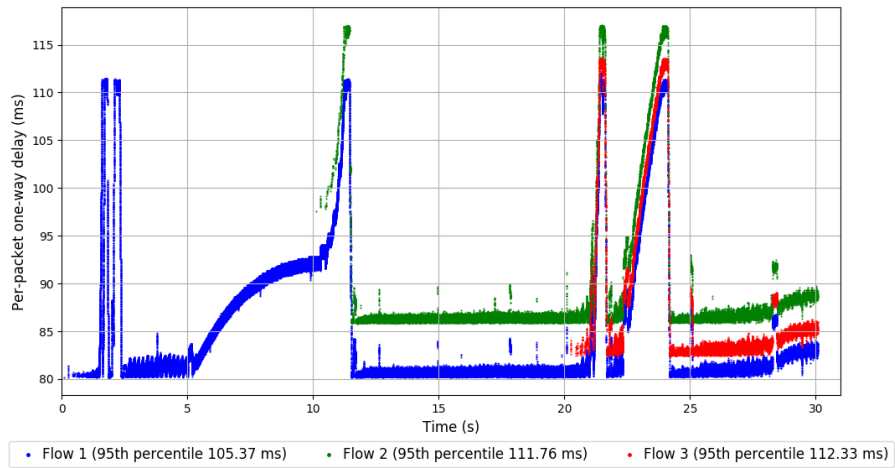
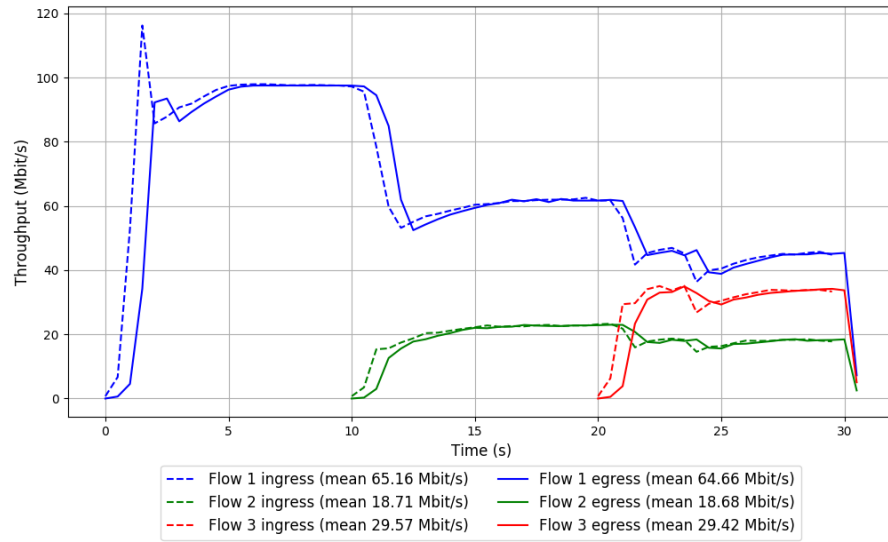


Run 5: Statistics of TCP Cubic

Start at: 2018-12-20 03:14:29
End at: 2018-12-20 03:14:59
Local clock offset: -6.964 ms
Remote clock offset: -2.816 ms

Below is generated by plot.py at 2018-12-20 03:37:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.88 Mbit/s
95th percentile per-packet one-way delay: 108.325 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 64.66 Mbit/s
95th percentile per-packet one-way delay: 105.368 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 111.758 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 112.330 ms
Loss rate: 0.51%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-12-20 01:54:38

End at: 2018-12-20 01:55:08

Local clock offset: -0.974 ms

Remote clock offset: 9.079 ms

Below is generated by plot.py at 2018-12-20 03:37:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 117.365 ms

Loss rate: 17.79%

-- Flow 1:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 112.138 ms

Loss rate: 17.06%

-- Flow 2:

Average throughput: 54.35 Mbit/s

95th percentile per-packet one-way delay: 117.564 ms

Loss rate: 18.34%

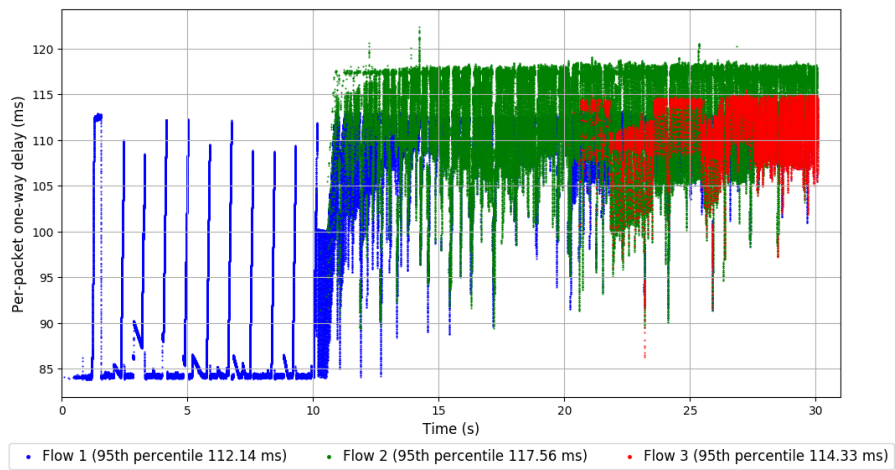
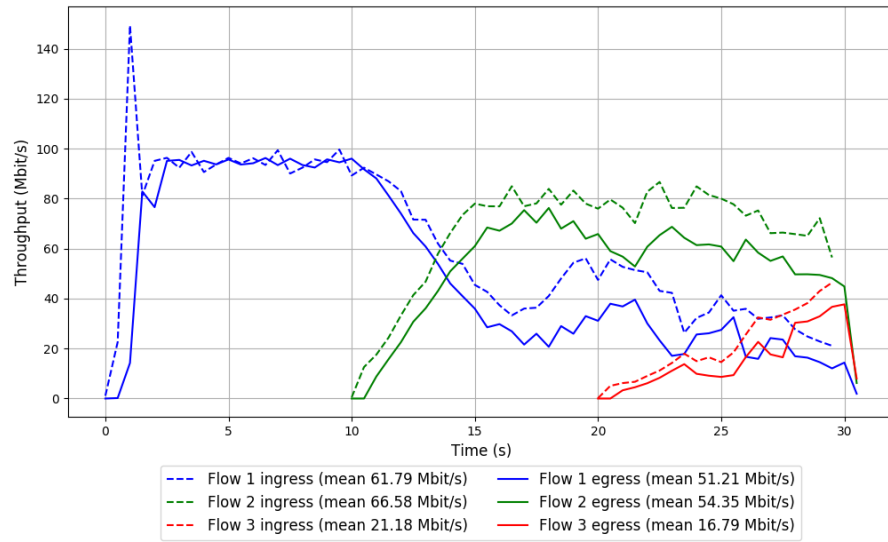
-- Flow 3:

Average throughput: 16.79 Mbit/s

95th percentile per-packet one-way delay: 114.327 ms

Loss rate: 20.74%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-12-20 02:18:41

End at: 2018-12-20 02:19:11

Local clock offset: -5.908 ms

Remote clock offset: 2.802 ms

Below is generated by plot.py at 2018-12-20 03:37:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.69 Mbit/s

95th percentile per-packet one-way delay: 112.075 ms

Loss rate: 18.09%

-- Flow 1:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 108.501 ms

Loss rate: 17.97%

-- Flow 2:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 108.235 ms

Loss rate: 18.50%

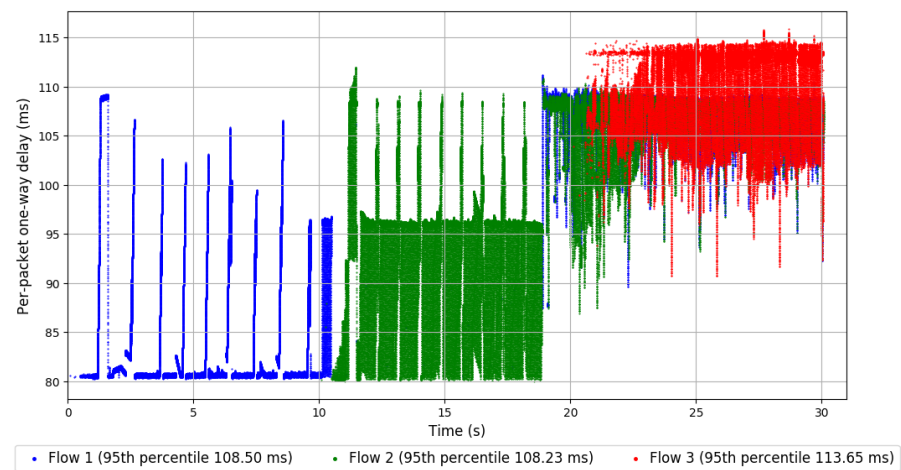
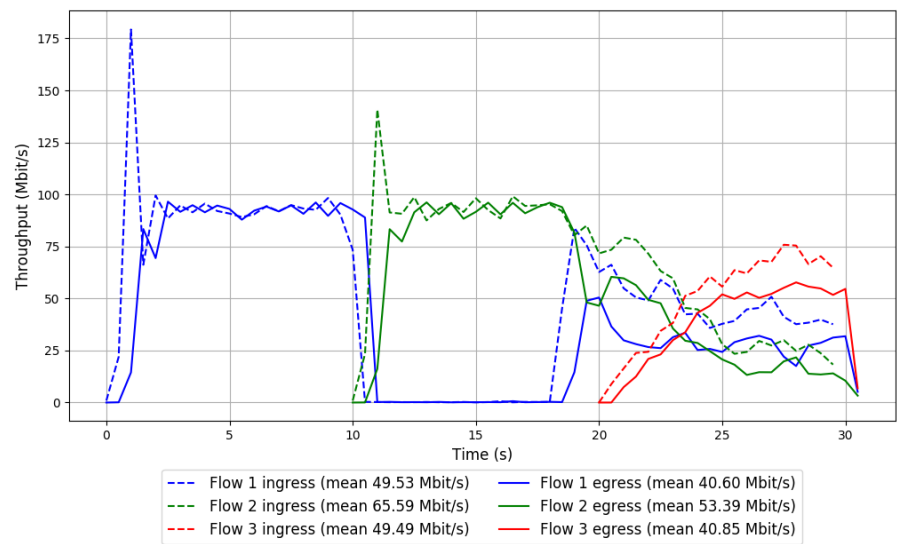
-- Flow 3:

Average throughput: 40.85 Mbit/s

95th percentile per-packet one-way delay: 113.649 ms

Loss rate: 17.38%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-12-20 02:42:44

End at: 2018-12-20 02:43:14

Local clock offset: -7.187 ms

Remote clock offset: 3.414 ms

Below is generated by plot.py at 2018-12-20 03:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 111.570 ms

Loss rate: 19.88%

-- Flow 1:

Average throughput: 57.99 Mbit/s

95th percentile per-packet one-way delay: 111.220 ms

Loss rate: 15.26%

-- Flow 2:

Average throughput: 37.07 Mbit/s

95th percentile per-packet one-way delay: 111.783 ms

Loss rate: 27.58%

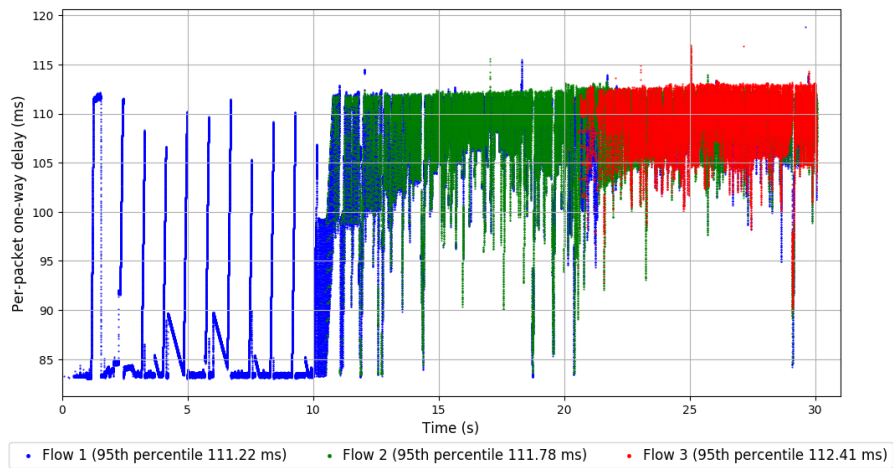
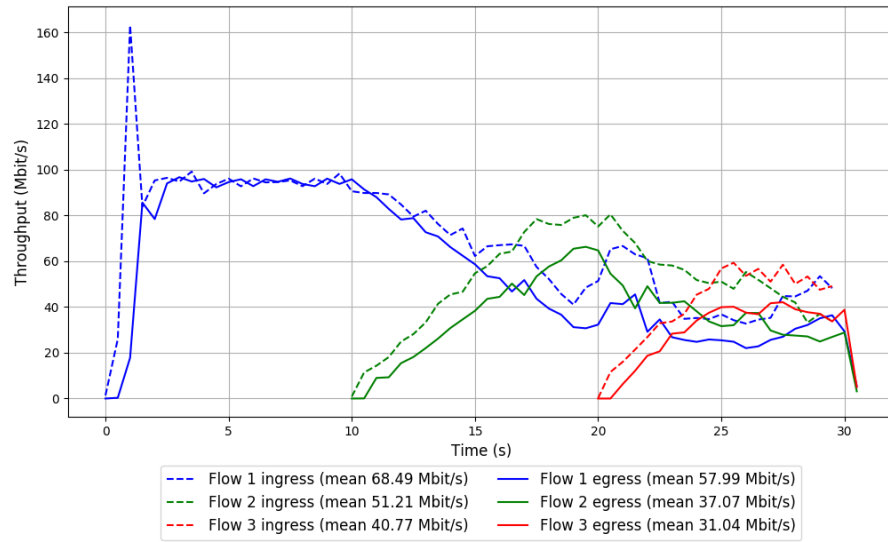
-- Flow 3:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 112.412 ms

Loss rate: 23.85%

Run 3: Report of FillP — Data Link

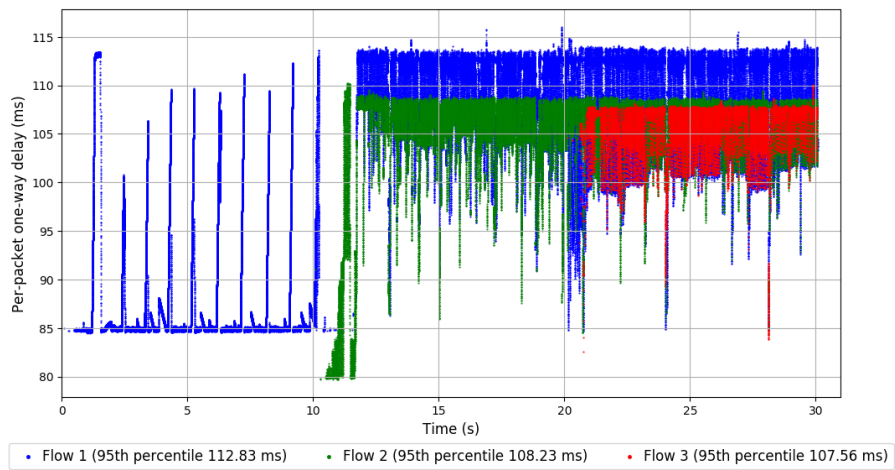
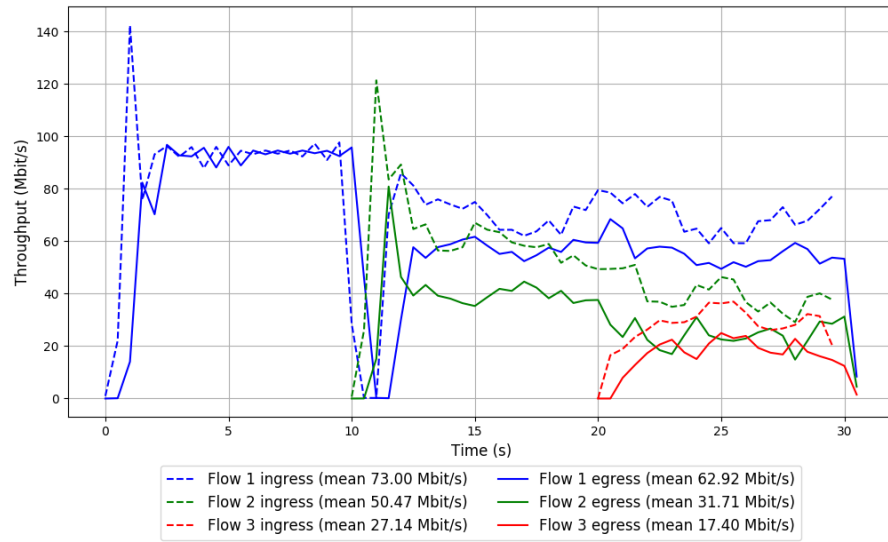


Run 4: Statistics of FillP

Start at: 2018-12-20 03:06:46
End at: 2018-12-20 03:07:16
Local clock offset: -7.279 ms
Remote clock offset: -3.164 ms

Below is generated by plot.py at 2018-12-20 03:37:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 112.738 ms
Loss rate: 22.29%
-- Flow 1:
Average throughput: 62.92 Mbit/s
95th percentile per-packet one-way delay: 112.832 ms
Loss rate: 13.78%
-- Flow 2:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 108.226 ms
Loss rate: 37.13%
-- Flow 3:
Average throughput: 17.40 Mbit/s
95th percentile per-packet one-way delay: 107.564 ms
Loss rate: 35.91%

Run 4: Report of FillP — Data Link

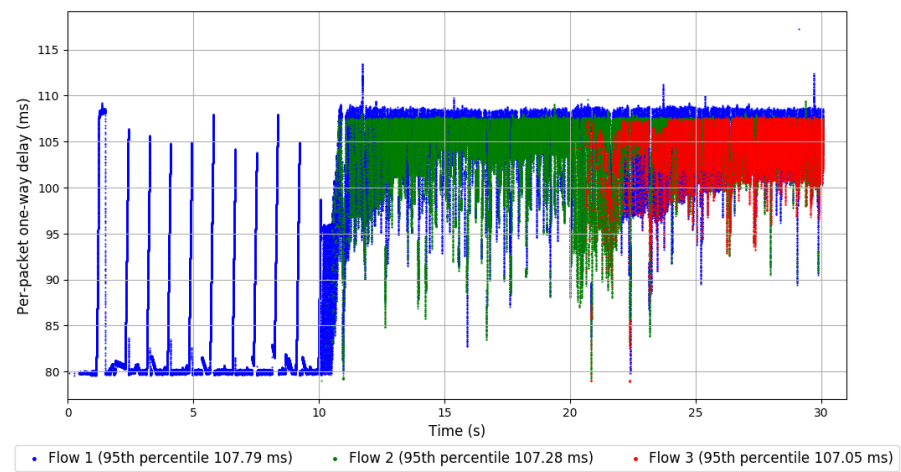
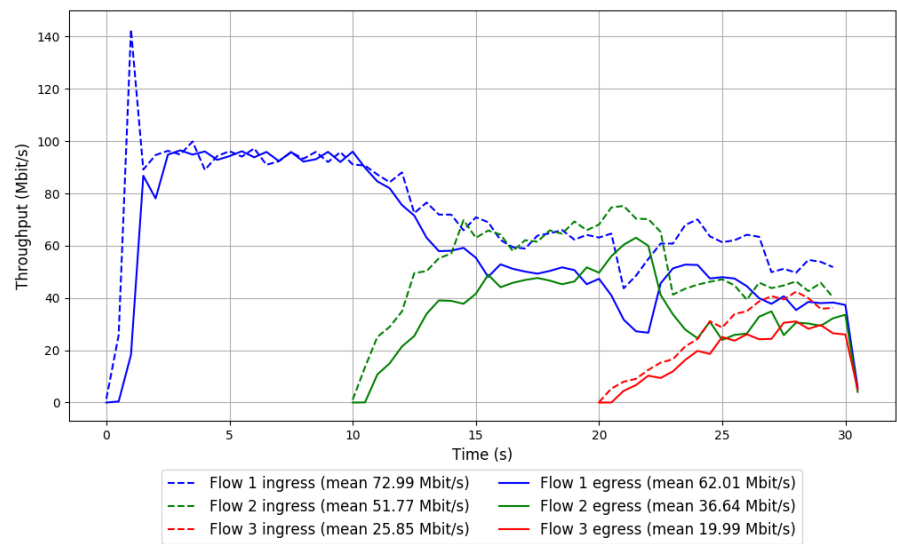


Run 5: Statistics of FillP

Start at: 2018-12-20 03:30:48
End at: 2018-12-20 03:31:18
Local clock offset: -6.99 ms
Remote clock offset: -5.729 ms

Below is generated by plot.py at 2018-12-20 03:38:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 107.610 ms
Loss rate: 19.75%
-- Flow 1:
Average throughput: 62.01 Mbit/s
95th percentile per-packet one-way delay: 107.787 ms
Loss rate: 14.97%
-- Flow 2:
Average throughput: 36.64 Mbit/s
95th percentile per-packet one-way delay: 107.282 ms
Loss rate: 29.13%
-- Flow 3:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 107.051 ms
Loss rate: 22.69%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-12-20 01:43:16

End at: 2018-12-20 01:43:46

Local clock offset: -0.847 ms

Remote clock offset: 5.29 ms

Below is generated by plot.py at 2018-12-20 03:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.62 Mbit/s

95th percentile per-packet one-way delay: 107.885 ms

Loss rate: 7.17%

-- Flow 1:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 107.497 ms

Loss rate: 11.00%

-- Flow 2:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 107.461 ms

Loss rate: 6.69%

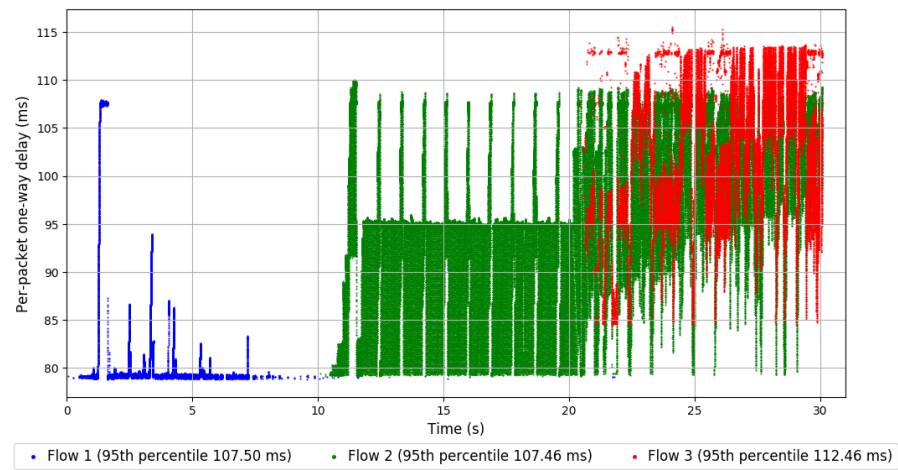
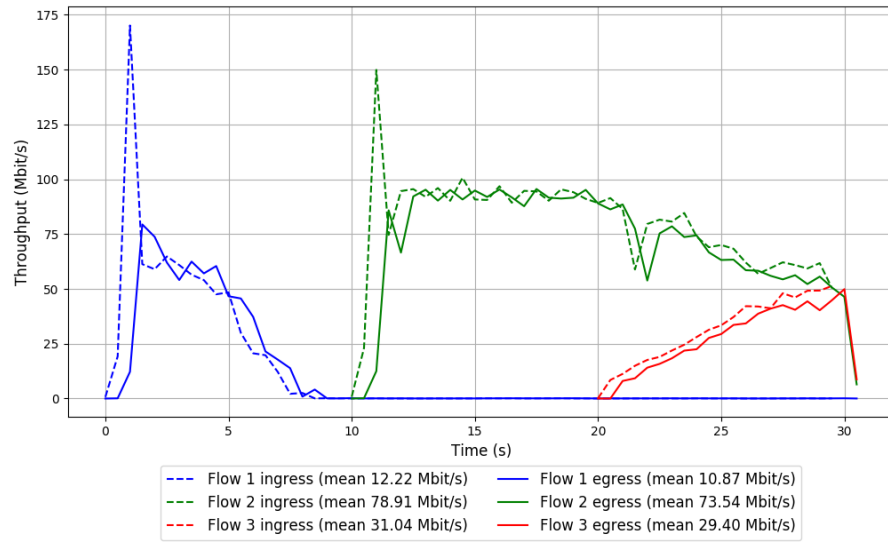
-- Flow 3:

Average throughput: 29.40 Mbit/s

95th percentile per-packet one-way delay: 112.462 ms

Loss rate: 5.08%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-12-20 02:07:18

End at: 2018-12-20 02:07:48

Local clock offset: -2.03 ms

Remote clock offset: 6.497 ms

Below is generated by plot.py at 2018-12-20 03:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.29 Mbit/s

95th percentile per-packet one-way delay: 111.271 ms

Loss rate: 10.09%

-- Flow 1:

Average throughput: 27.75 Mbit/s

95th percentile per-packet one-way delay: 109.952 ms

Loss rate: 6.97%

-- Flow 2:

Average throughput: 72.58 Mbit/s

95th percentile per-packet one-way delay: 111.412 ms

Loss rate: 8.07%

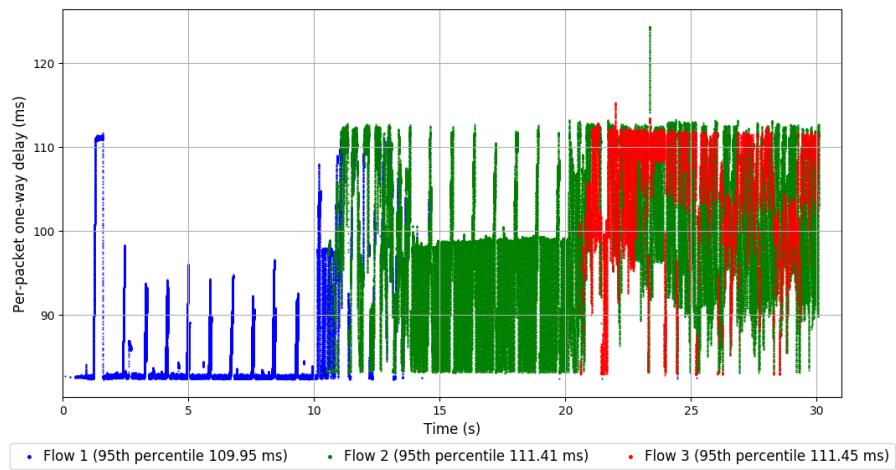
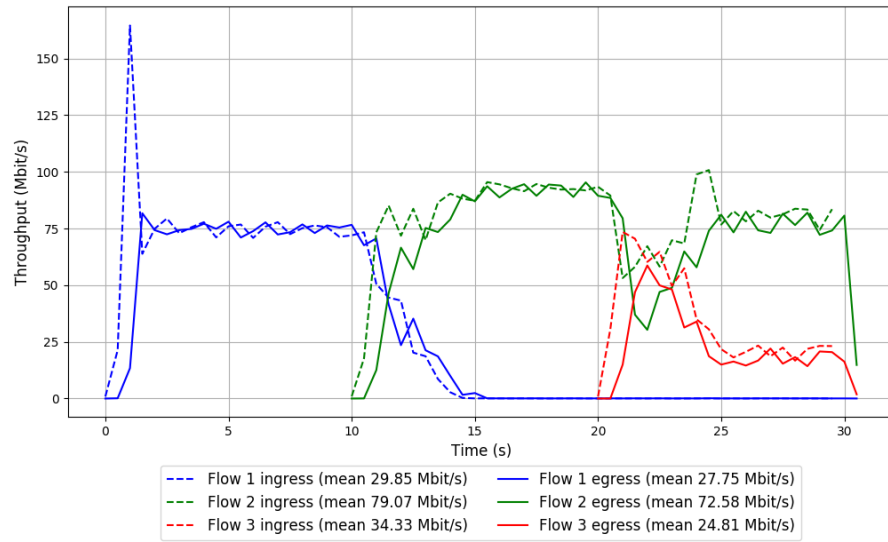
-- Flow 3:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 111.450 ms

Loss rate: 27.62%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-12-20 02:31:20

End at: 2018-12-20 02:31:50

Local clock offset: -7.4 ms

Remote clock offset: 6.705 ms

Below is generated by plot.py at 2018-12-20 03:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 114.071 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 28.32 Mbit/s

95th percentile per-packet one-way delay: 109.670 ms

Loss rate: 4.78%

-- Flow 2:

Average throughput: 77.45 Mbit/s

95th percentile per-packet one-way delay: 114.128 ms

Loss rate: 2.14%

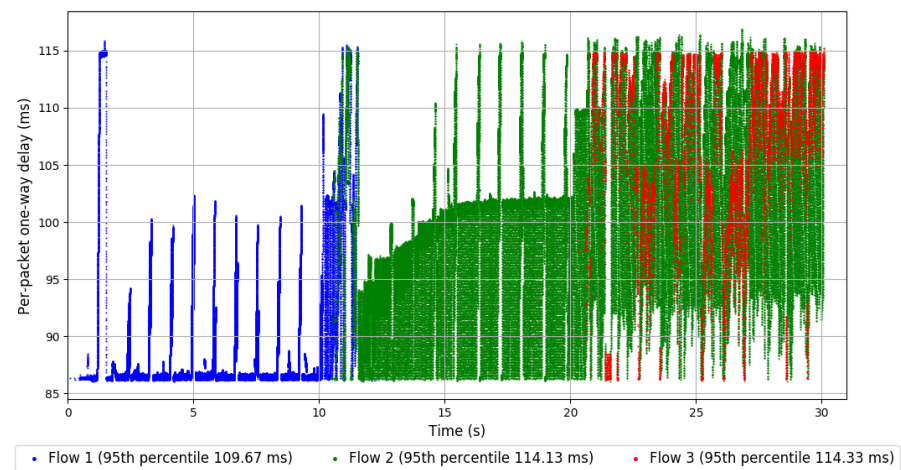
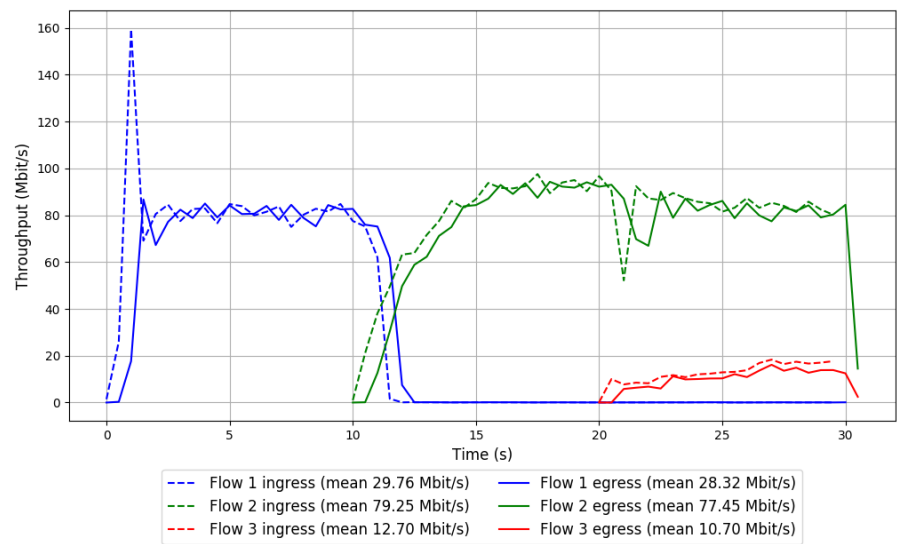
-- Flow 3:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 114.325 ms

Loss rate: 15.64%

Run 3: Report of FillP-Sheep — Data Link

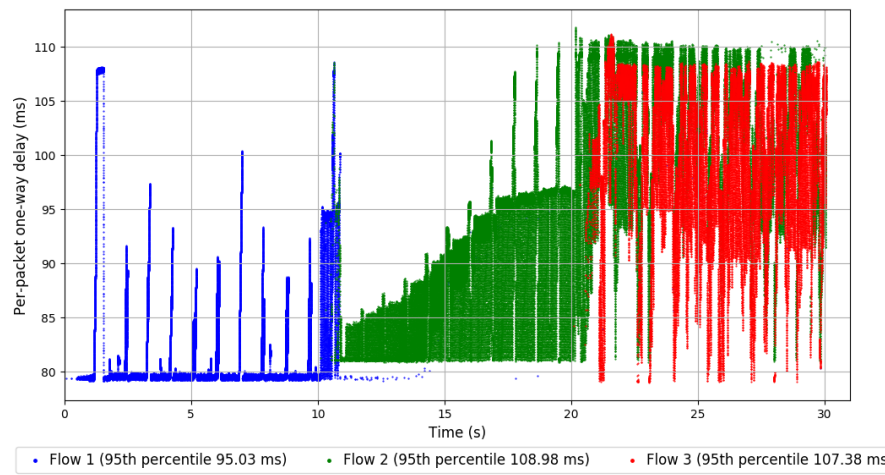
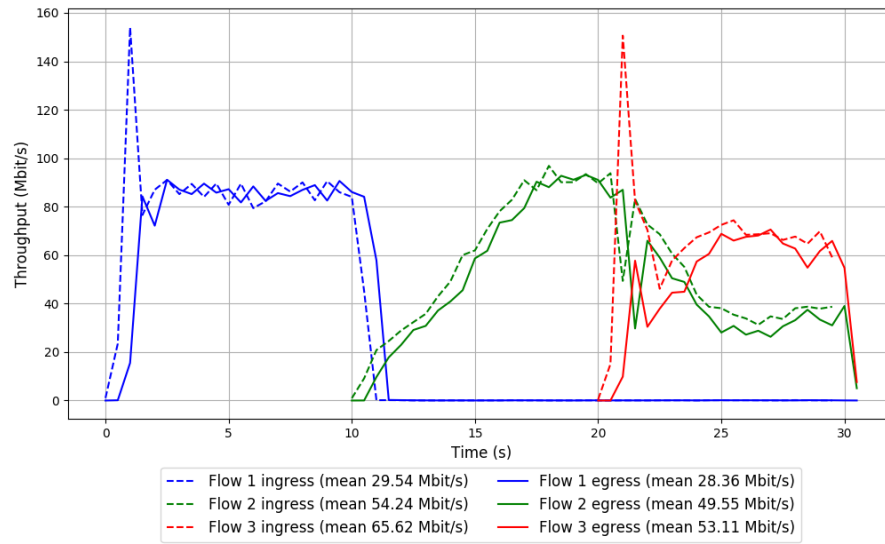


Run 4: Statistics of FillP-Sheep

Start at: 2018-12-20 02:55:24
End at: 2018-12-20 02:55:54
Local clock offset: -7.159 ms
Remote clock offset: -1.999 ms

Below is generated by plot.py at 2018-12-20 03:38:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.96 Mbit/s
95th percentile per-packet one-way delay: 107.818 ms
Loss rate: 9.56%
-- Flow 1:
Average throughput: 28.36 Mbit/s
95th percentile per-packet one-way delay: 95.029 ms
Loss rate: 3.94%
-- Flow 2:
Average throughput: 49.55 Mbit/s
95th percentile per-packet one-way delay: 108.982 ms
Loss rate: 8.52%
-- Flow 3:
Average throughput: 53.11 Mbit/s
95th percentile per-packet one-way delay: 107.376 ms
Loss rate: 18.91%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-12-20 03:19:26

End at: 2018-12-20 03:19:56

Local clock offset: -6.992 ms

Remote clock offset: 1.844 ms

Below is generated by plot.py at 2018-12-20 03:38:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 114.080 ms

Loss rate: 6.23%

-- Flow 1:

Average throughput: 29.29 Mbit/s

95th percentile per-packet one-way delay: 106.645 ms

Loss rate: 3.97%

-- Flow 2:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 113.923 ms

Loss rate: 7.80%

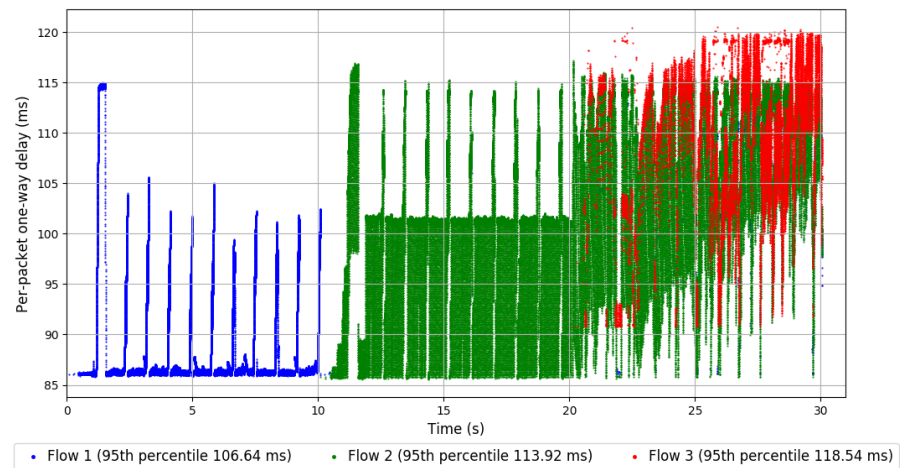
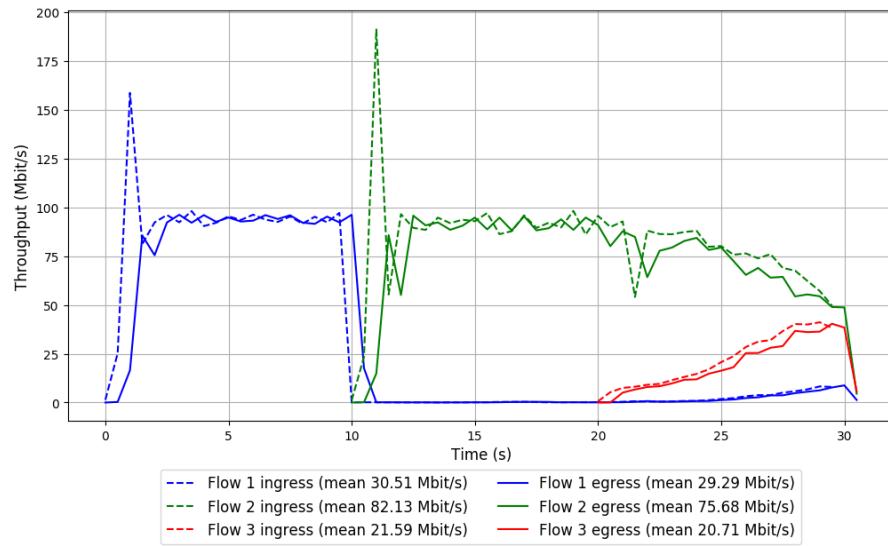
-- Flow 3:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 118.543 ms

Loss rate: 3.94%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-12-20 01:55:56

End at: 2018-12-20 01:56:26

Local clock offset: -0.948 ms

Remote clock offset: 7.701 ms

Below is generated by plot.py at 2018-12-20 03:38:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 114.494 ms

Loss rate: 34.30%

-- Flow 1:

Average throughput: 62.43 Mbit/s

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

Loss rate: 12.89%

-- Flow 2:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 114.599 ms

Loss rate: 35.72%

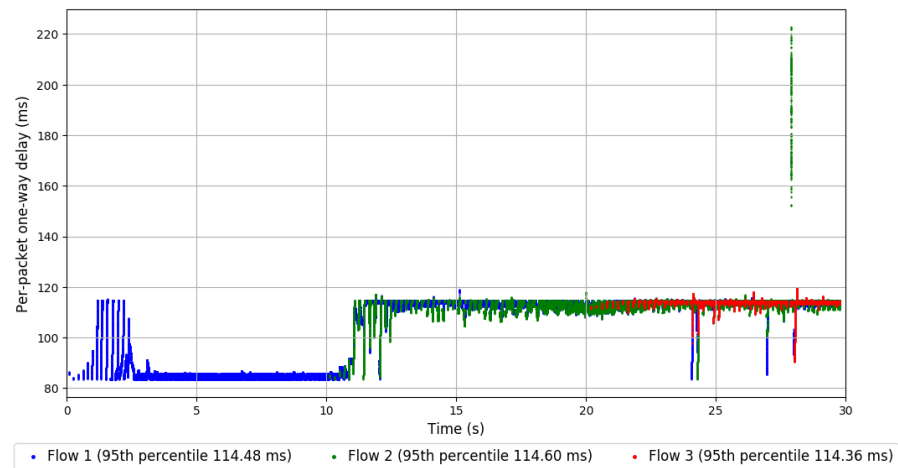
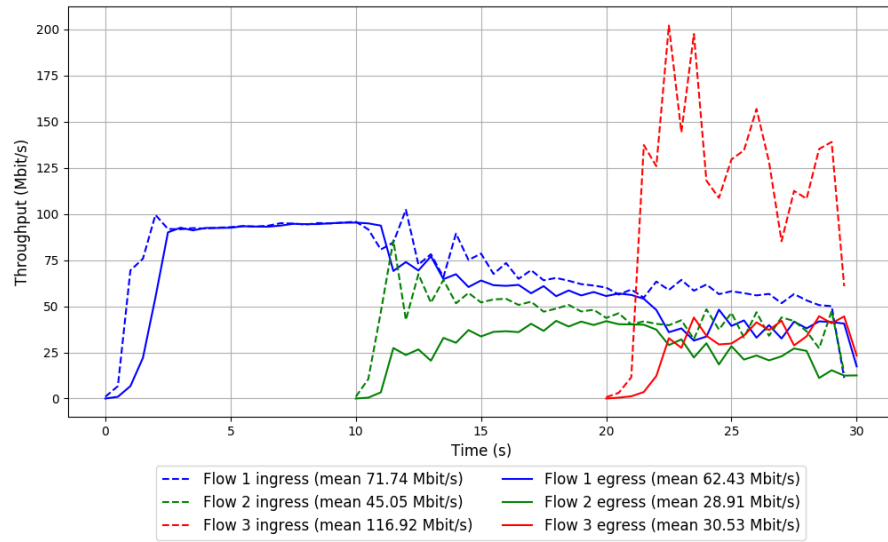
-- Flow 3:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 114.363 ms

Loss rate: 73.88%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-12-20 02:19:58

End at: 2018-12-20 02:20:28

Local clock offset: -6.077 ms

Remote clock offset: 2.596 ms

Below is generated by plot.py at 2018-12-20 03:38:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.55 Mbit/s

95th percentile per-packet one-way delay: 112.477 ms

Loss rate: 10.23%

-- Flow 1:

Average throughput: 57.08 Mbit/s

95th percentile per-packet one-way delay: 111.245 ms

Loss rate: 9.21%

-- Flow 2:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 112.959 ms

Loss rate: 11.88%

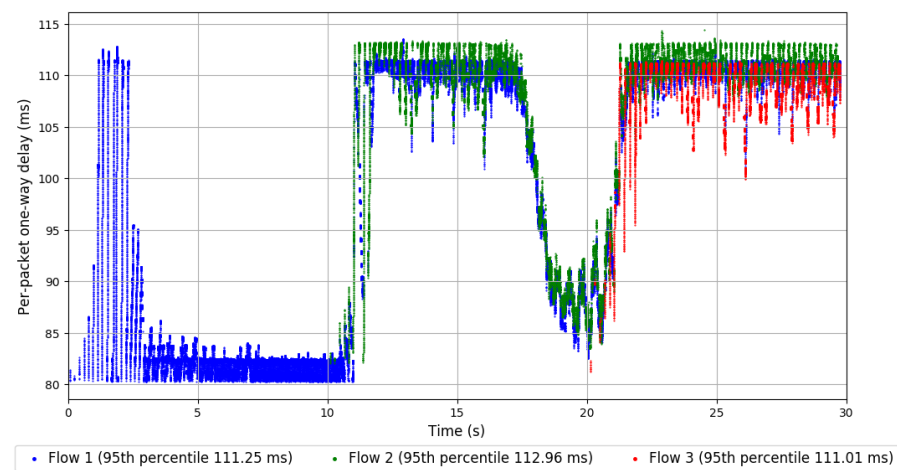
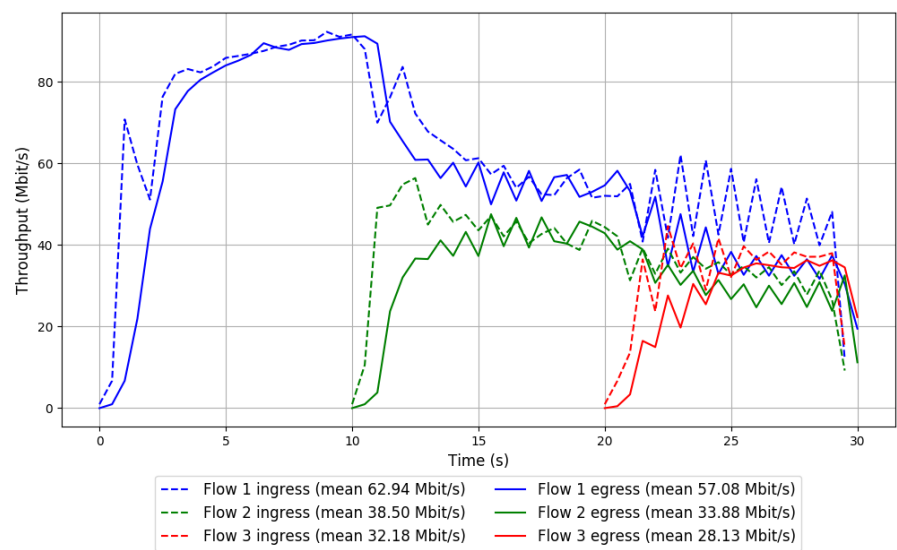
-- Flow 3:

Average throughput: 28.13 Mbit/s

95th percentile per-packet one-way delay: 111.009 ms

Loss rate: 12.31%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-12-20 02:44:01

End at: 2018-12-20 02:44:31

Local clock offset: -7.152 ms

Remote clock offset: 5.366 ms

Below is generated by plot.py at 2018-12-20 03:39:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 117.195 ms

Loss rate: 33.24%

-- Flow 1:

Average throughput: 66.34 Mbit/s

95th percentile per-packet one-way delay: 117.213 ms

Loss rate: 9.93%

-- Flow 2:

Average throughput: 23.12 Mbit/s

95th percentile per-packet one-way delay: 116.491 ms

Loss rate: 37.62%

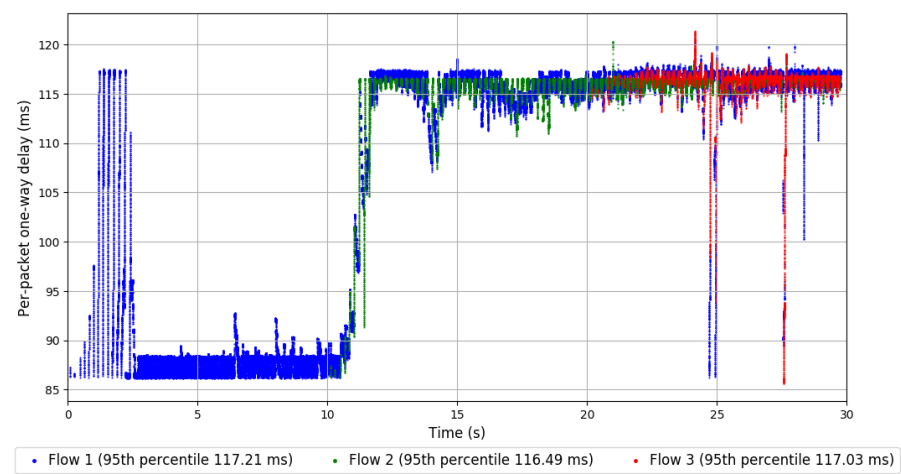
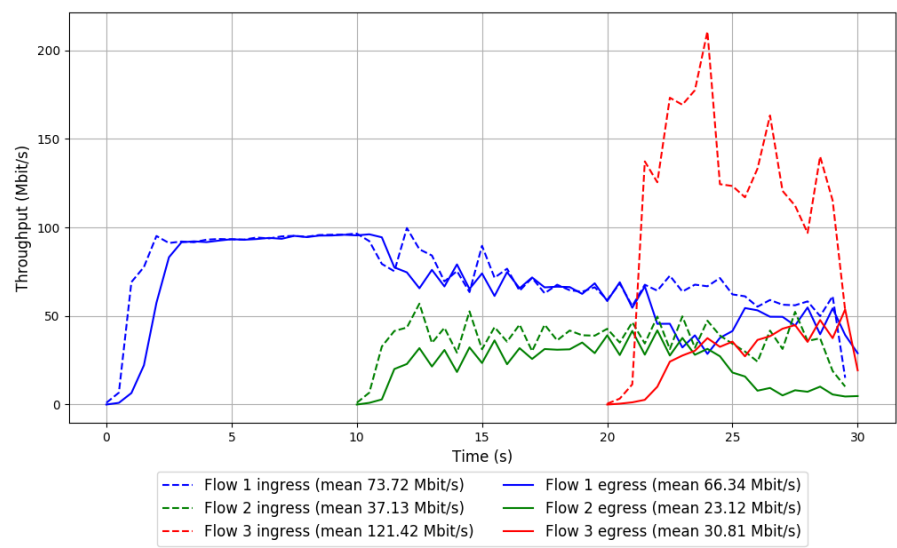
-- Flow 3:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 117.033 ms

Loss rate: 74.62%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-12-20 03:08:04

End at: 2018-12-20 03:08:34

Local clock offset: -7.267 ms

Remote clock offset: 1.619 ms

Below is generated by plot.py at 2018-12-20 03:39:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.34 Mbit/s

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

Loss rate: 32.11%

-- Flow 1:

Average throughput: 71.58 Mbit/s

95th percentile per-packet one-way delay: 120.660 ms

Loss rate: 5.88%

-- Flow 2:

Average throughput: 16.85 Mbit/s

95th percentile per-packet one-way delay: 117.452 ms

Loss rate: 50.70%

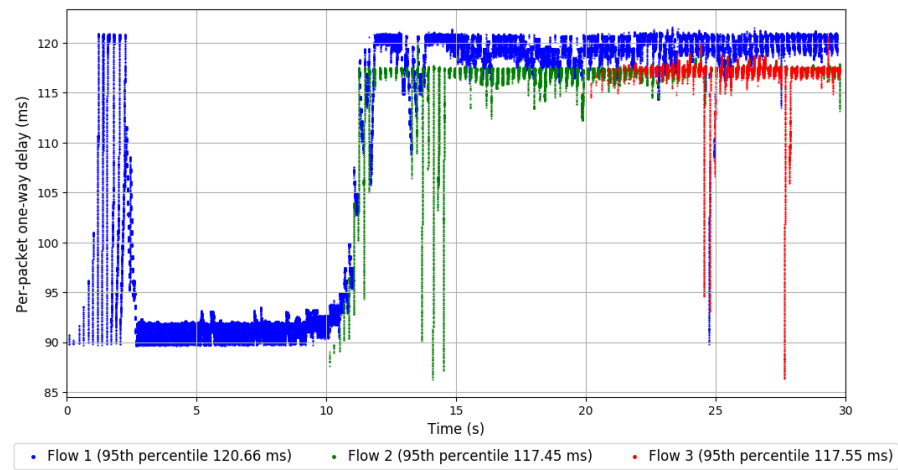
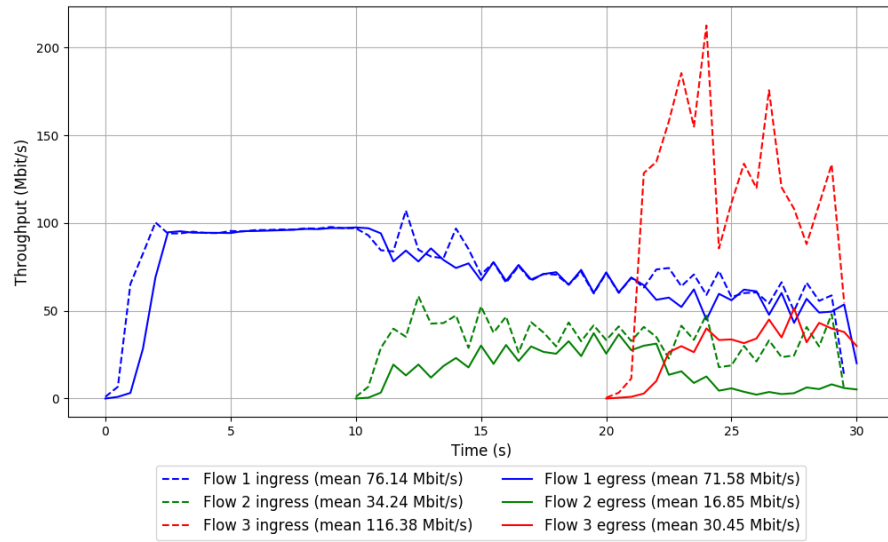
-- Flow 3:

Average throughput: 30.45 Mbit/s

95th percentile per-packet one-way delay: 117.545 ms

Loss rate: 73.83%

Run 4: Report of Indigo — Data Link

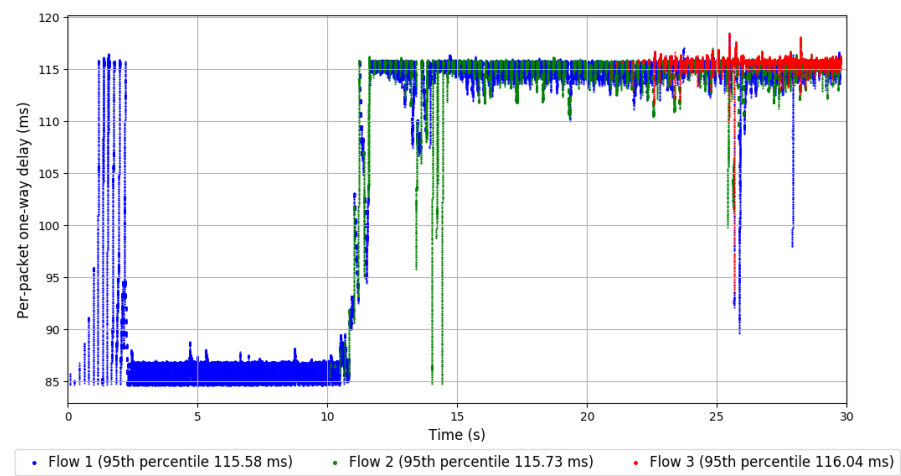
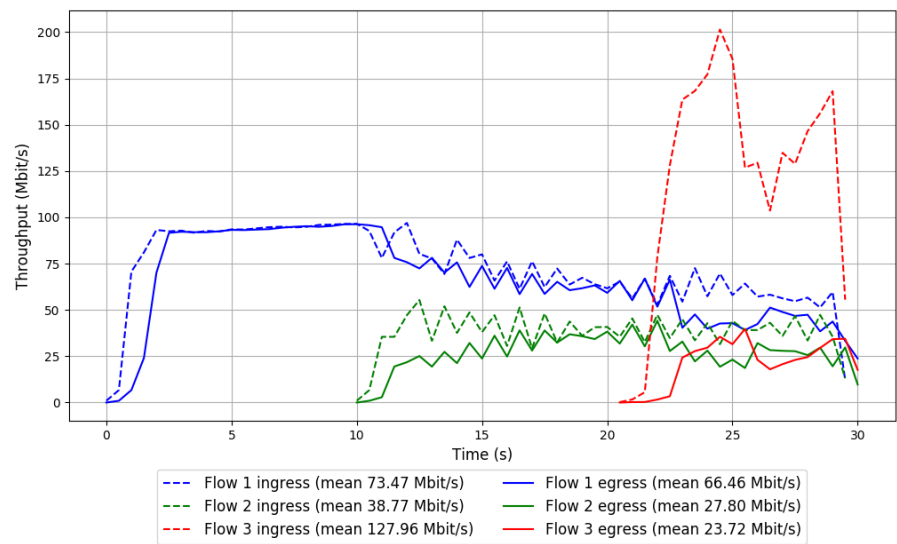


Run 5: Statistics of Indigo

Start at: 2018-12-20 03:32:06
End at: 2018-12-20 03:32:36
Local clock offset: -7.002 ms
Remote clock offset: -0.435 ms

Below is generated by plot.py at 2018-12-20 03:39:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 115.715 ms
Loss rate: 32.95%
-- Flow 1:
Average throughput: 66.46 Mbit/s
95th percentile per-packet one-way delay: 115.581 ms
Loss rate: 9.44%
-- Flow 2:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 115.726 ms
Loss rate: 28.19%
-- Flow 3:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 116.040 ms
Loss rate: 81.46%

Run 5: Report of Indigo — Data Link

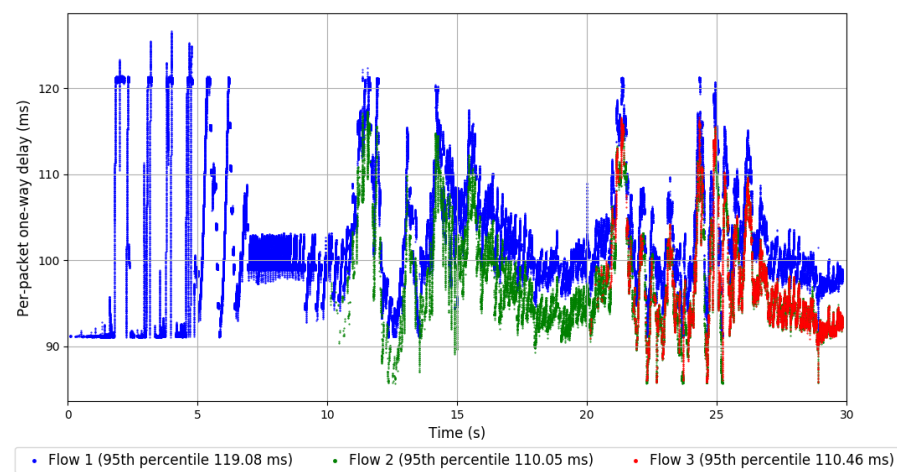
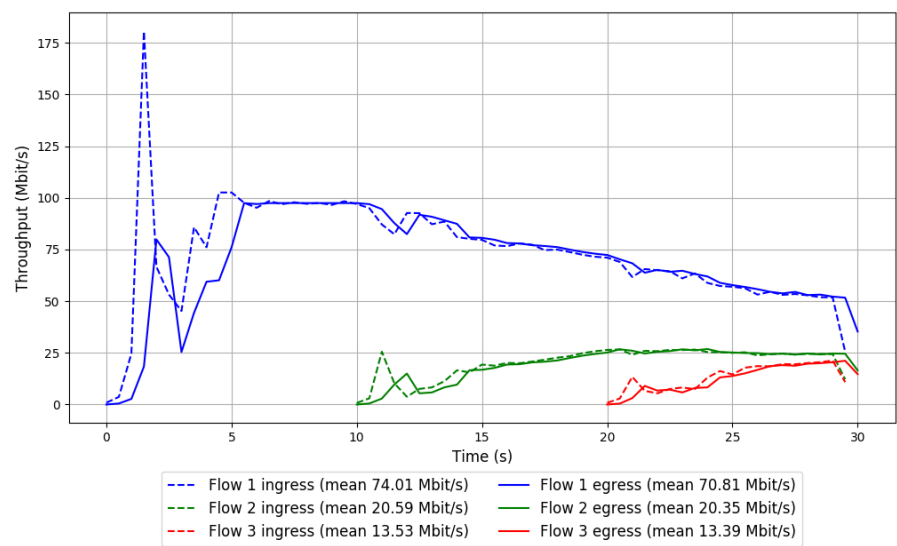


Run 1: Statistics of Indigo-MusesD

Start at: 2018-12-20 01:44:32
End at: 2018-12-20 01:45:02
Local clock offset: -0.903 ms
Remote clock offset: 11.511 ms

Below is generated by plot.py at 2018-12-20 03:39:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 116.951 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 70.81 Mbit/s
95th percentile per-packet one-way delay: 119.085 ms
Loss rate: 4.33%
-- Flow 2:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 110.050 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 110.457 ms
Loss rate: 1.05%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:08:34

End at: 2018-12-20 02:09:04

Local clock offset: -2.648 ms

Remote clock offset: 2.571 ms

Below is generated by plot.py at 2018-12-20 03:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 111.011 ms

Loss rate: 2.99%

-- Flow 1:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 112.163 ms

Loss rate: 3.34%

-- Flow 2:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 106.744 ms

Loss rate: 0.87%

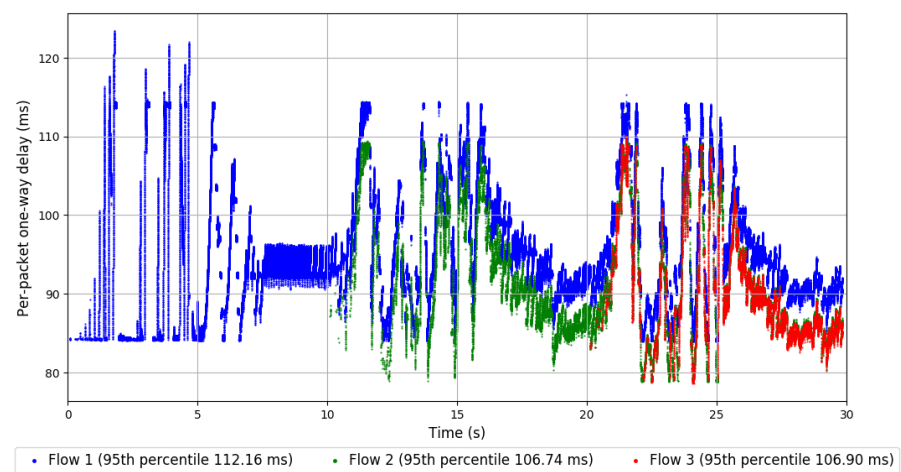
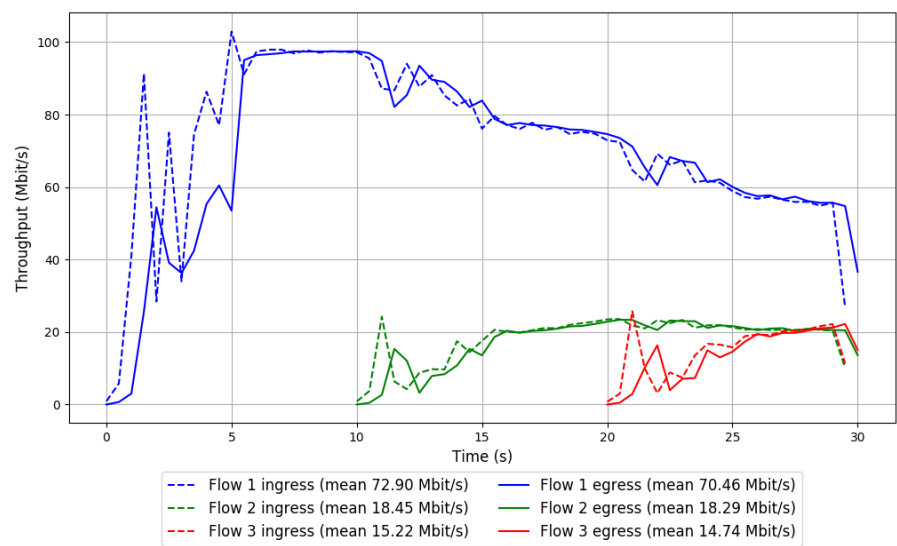
-- Flow 3:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 106.898 ms

Loss rate: 3.16%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:32:36

End at: 2018-12-20 02:33:06

Local clock offset: -7.497 ms

Remote clock offset: 1.341 ms

Below is generated by plot.py at 2018-12-20 03:39:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 109.024 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 69.93 Mbit/s

95th percentile per-packet one-way delay: 109.249 ms

Loss rate: 2.93%

-- Flow 2:

Average throughput: 21.84 Mbit/s

95th percentile per-packet one-way delay: 108.269 ms

Loss rate: 0.97%

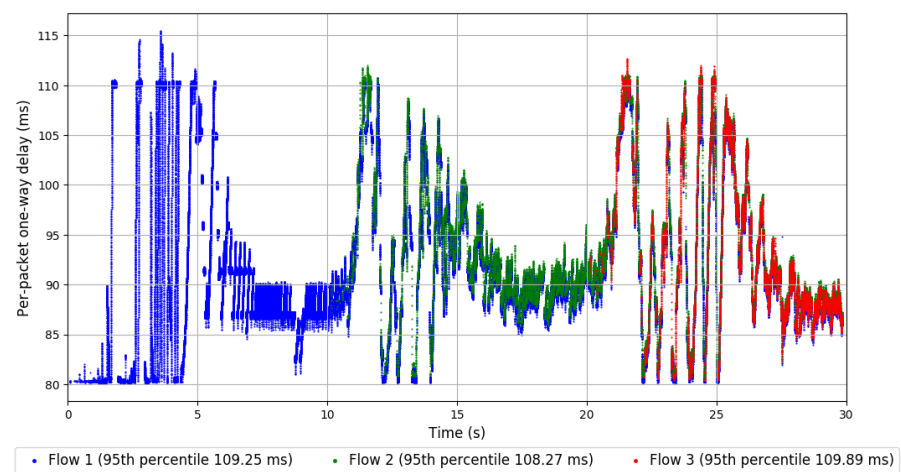
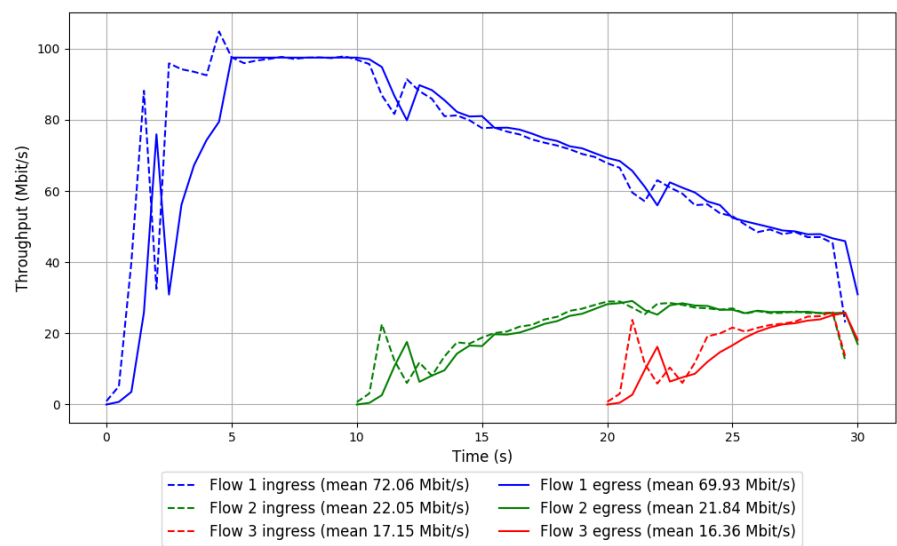
-- Flow 3:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 109.894 ms

Loss rate: 4.62%

Run 3: Report of Indigo-MusesD — Data Link

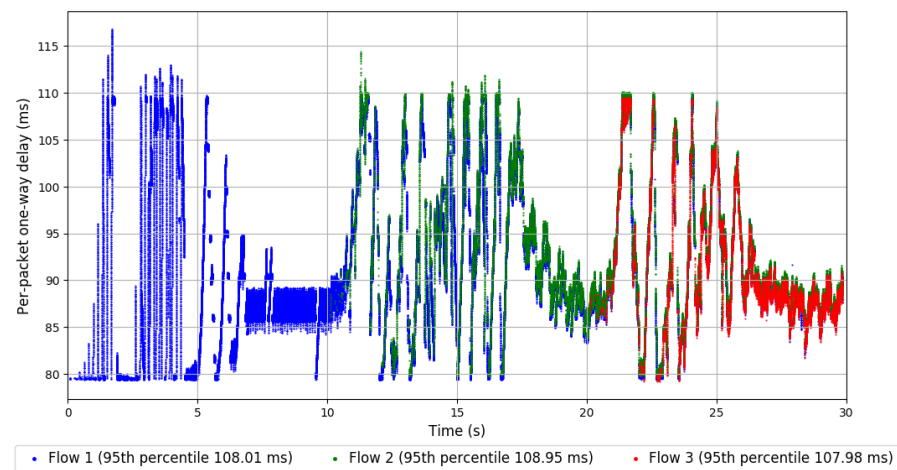
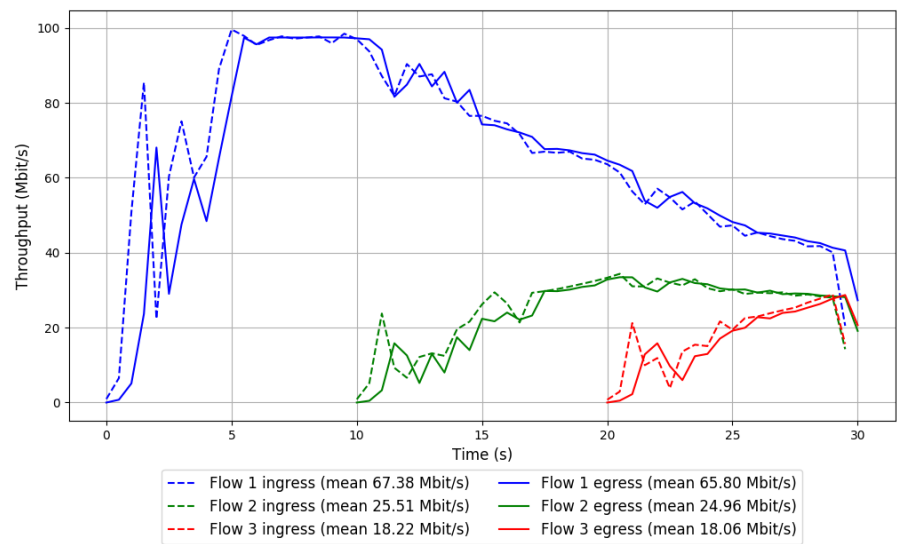


Run 4: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:56:40
End at: 2018-12-20 02:57:10
Local clock offset: -7.197 ms
Remote clock offset: -2.094 ms

Below is generated by plot.py at 2018-12-20 03:39:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.24 Mbit/s
95th percentile per-packet one-way delay: 108.167 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 65.80 Mbit/s
95th percentile per-packet one-way delay: 108.013 ms
Loss rate: 2.32%
-- Flow 2:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 108.952 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 107.981 ms
Loss rate: 0.88%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2018-12-20 03:20:43

End at: 2018-12-20 03:21:13

Local clock offset: -6.902 ms

Remote clock offset: 0.535 ms

Below is generated by plot.py at 2018-12-20 03:40:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 111.645 ms

Loss rate: 2.77%

-- Flow 1:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 112.201 ms

Loss rate: 3.26%

-- Flow 2:

Average throughput: 17.67 Mbit/s

95th percentile per-packet one-way delay: 109.260 ms

Loss rate: 0.36%

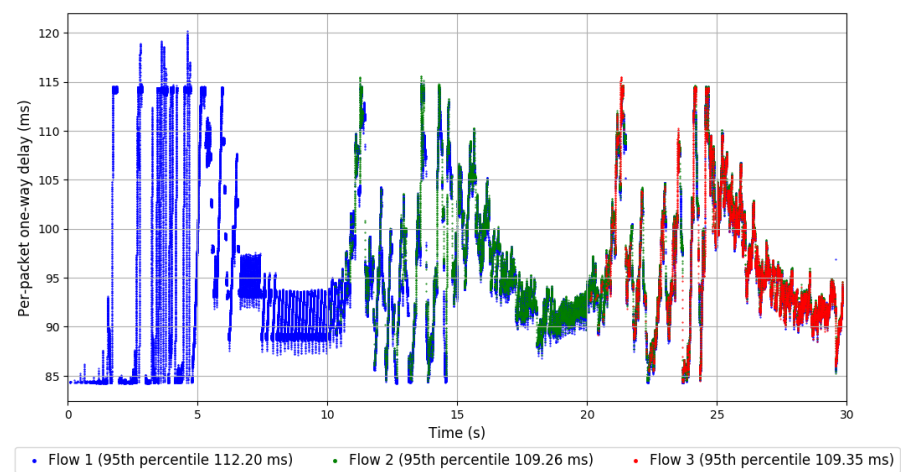
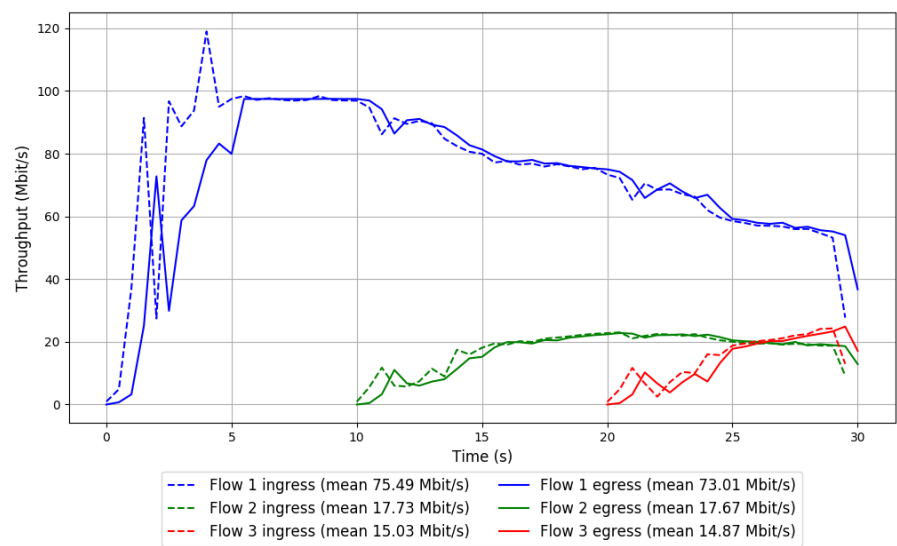
-- Flow 3:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 109.351 ms

Loss rate: 1.04%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2018-12-20 01:50:54

End at: 2018-12-20 01:51:24

Local clock offset: -1.072 ms

Remote clock offset: 9.527 ms

Below is generated by plot.py at 2018-12-20 03:40:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 114.795 ms

Loss rate: 7.86%

-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 114.543 ms

Loss rate: 6.46%

-- Flow 2:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 114.419 ms

Loss rate: 10.71%

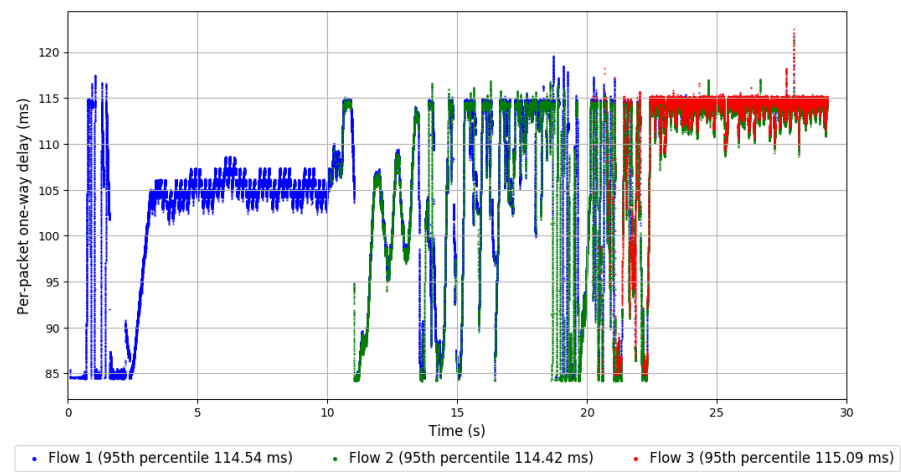
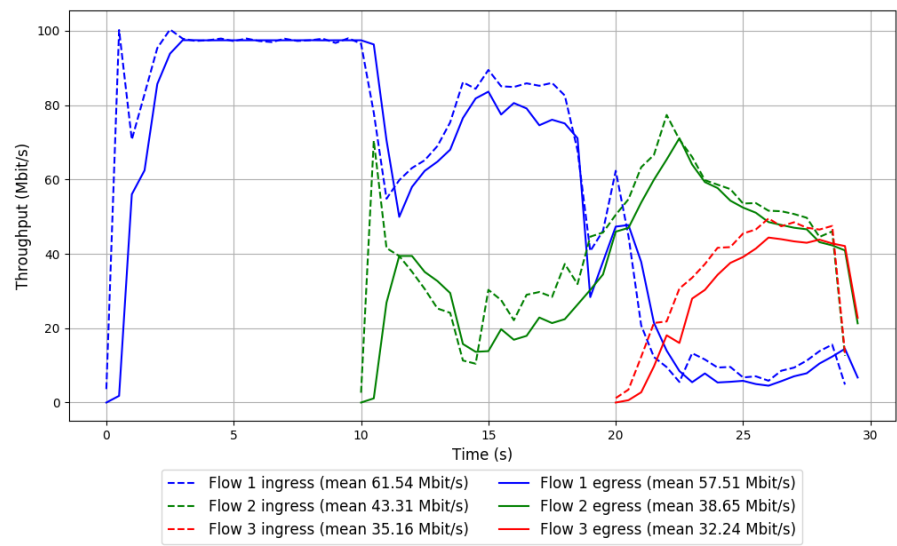
-- Flow 3:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 115.090 ms

Loss rate: 8.30%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2018-12-20 02:14:57

End at: 2018-12-20 02:15:27

Local clock offset: -5.011 ms

Remote clock offset: 7.114 ms

Below is generated by plot.py at 2018-12-20 03:40:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 116.010 ms

Loss rate: 9.01%

-- Flow 1:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 114.156 ms

Loss rate: 7.28%

-- Flow 2:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 116.403 ms

Loss rate: 15.17%

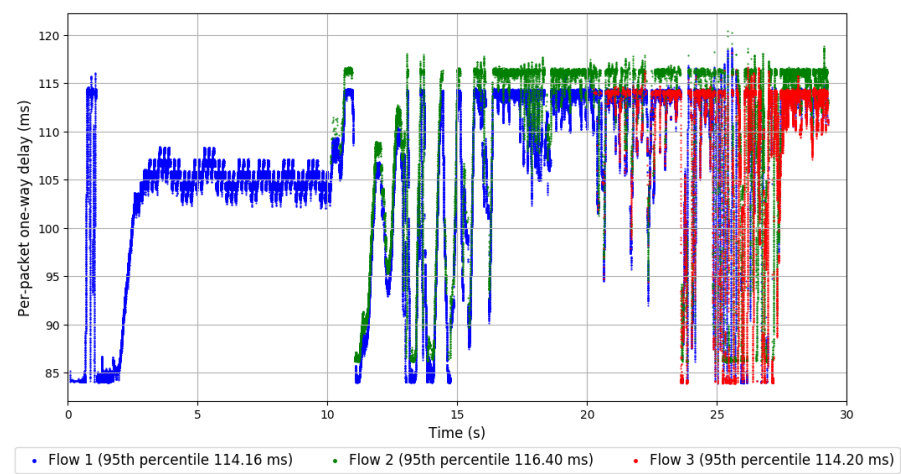
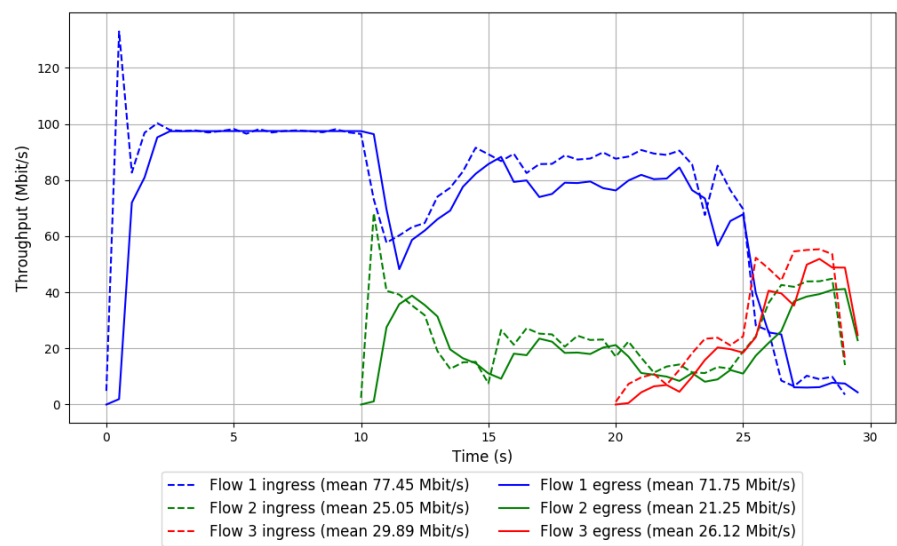
-- Flow 3:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 114.200 ms

Loss rate: 12.63%

Run 2: Report of Indigo-MusesT — Data Link

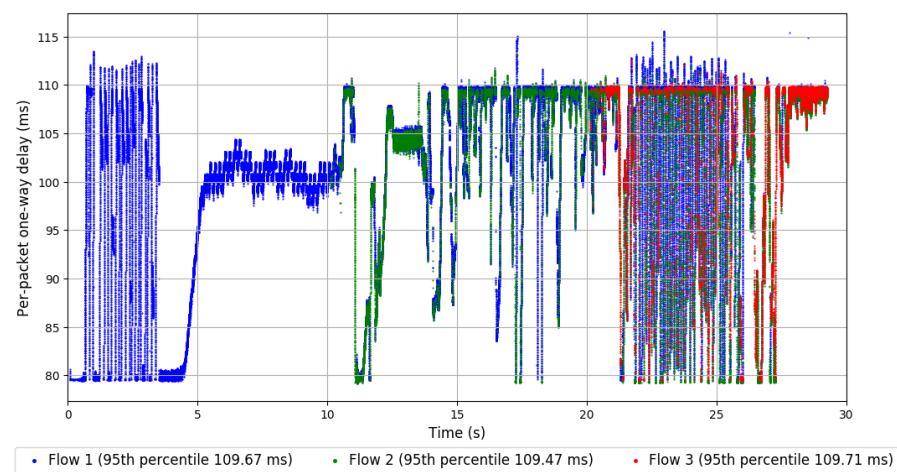
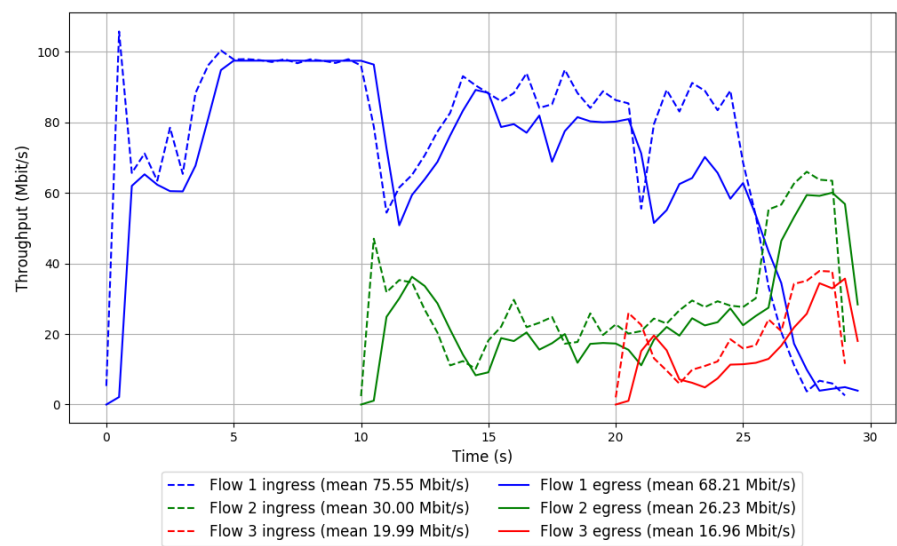


Run 3: Statistics of Indigo-MusesT

Start at: 2018-12-20 02:38:59
End at: 2018-12-20 02:39:29
Local clock offset: -7.363 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-12-20 03:40:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 109.650 ms
Loss rate: 10.53%
-- Flow 1:
Average throughput: 68.21 Mbit/s
95th percentile per-packet one-way delay: 109.670 ms
Loss rate: 9.62%
-- Flow 2:
Average throughput: 26.23 Mbit/s
95th percentile per-packet one-way delay: 109.473 ms
Loss rate: 12.54%
-- Flow 3:
Average throughput: 16.96 Mbit/s
95th percentile per-packet one-way delay: 109.713 ms
Loss rate: 15.15%

Run 3: Report of Indigo-MusesT — Data Link

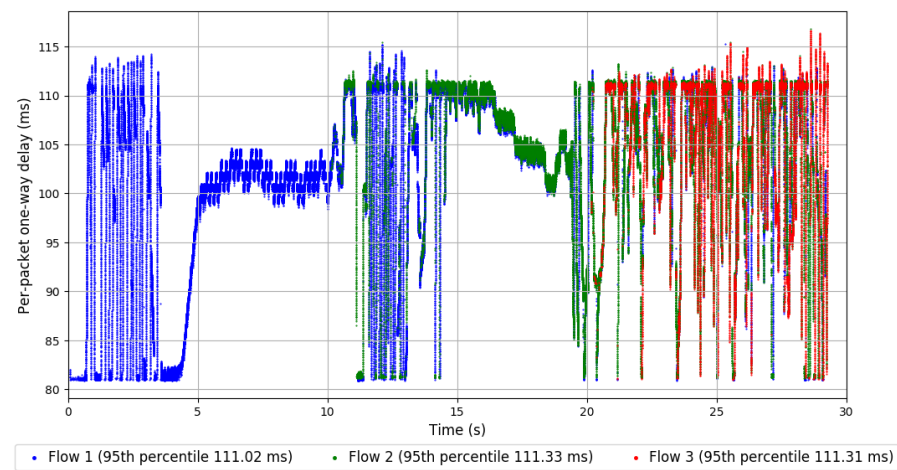
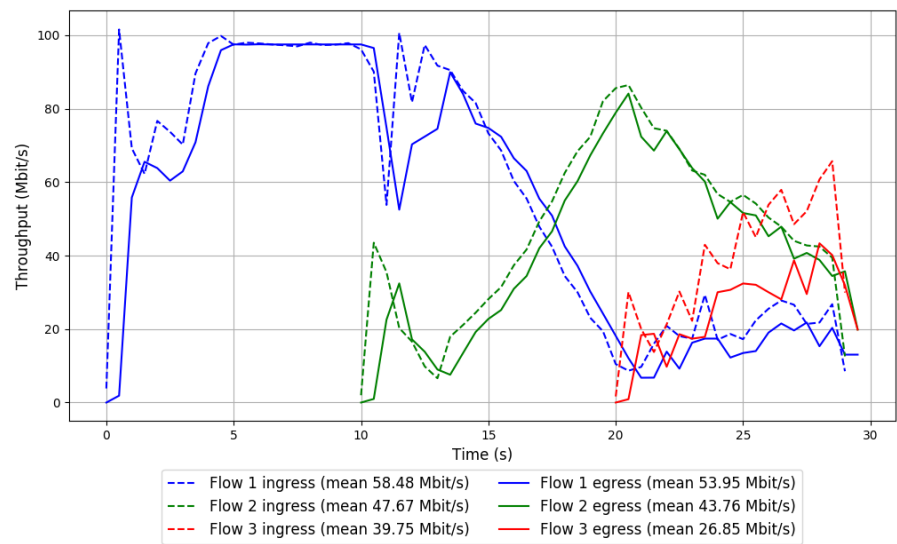


Run 4: Statistics of Indigo-MusesT

Start at: 2018-12-20 03:03:01
End at: 2018-12-20 03:03:31
Local clock offset: -7.347 ms
Remote clock offset: -1.549 ms

Below is generated by plot.py at 2018-12-20 03:40:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 111.191 ms
Loss rate: 10.84%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 111.021 ms
Loss rate: 7.71%
-- Flow 2:
Average throughput: 43.76 Mbit/s
95th percentile per-packet one-way delay: 111.330 ms
Loss rate: 8.16%
-- Flow 3:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 111.311 ms
Loss rate: 32.37%

Run 4: Report of Indigo-MusesT — Data Link

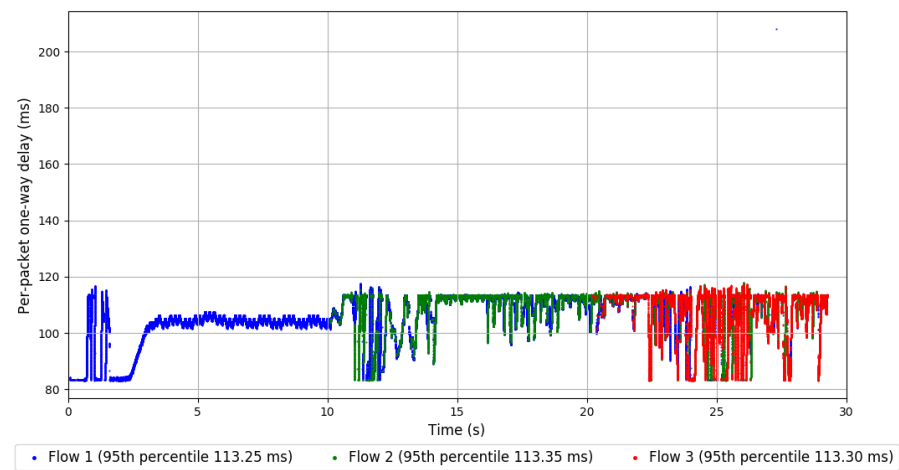
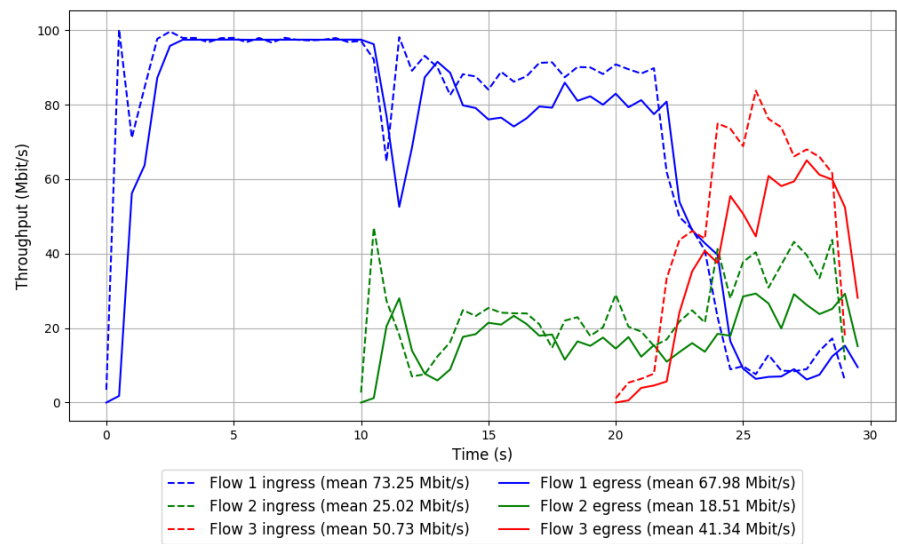


Run 5: Statistics of Indigo-MusesT

Start at: 2018-12-20 03:27:03
End at: 2018-12-20 03:27:33
Local clock offset: -7.005 ms
Remote clock offset: -1.299 ms

Below is generated by plot.py at 2018-12-20 03:41:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 113.274 ms
Loss rate: 11.75%
-- Flow 1:
Average throughput: 67.98 Mbit/s
95th percentile per-packet one-way delay: 113.246 ms
Loss rate: 7.11%
-- Flow 2:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 113.352 ms
Loss rate: 25.97%
-- Flow 3:
Average throughput: 41.34 Mbit/s
95th percentile per-packet one-way delay: 113.303 ms
Loss rate: 18.51%

Run 5: Report of Indigo-MusesT — Data Link

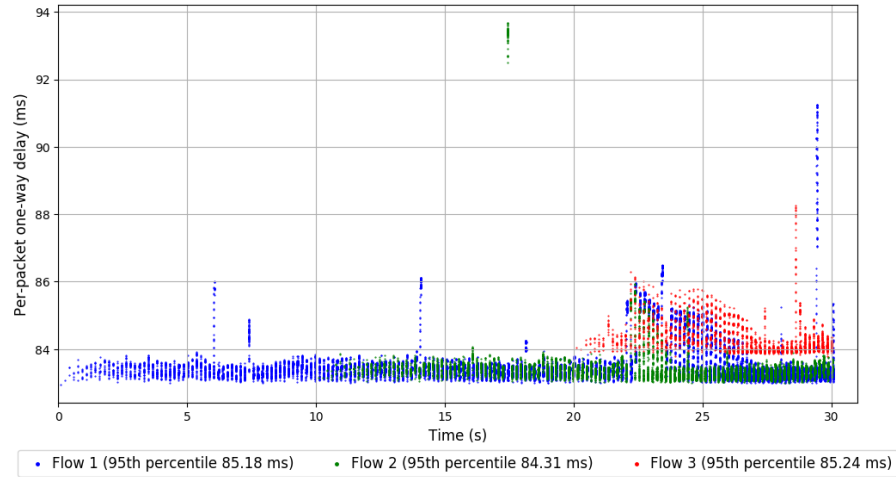
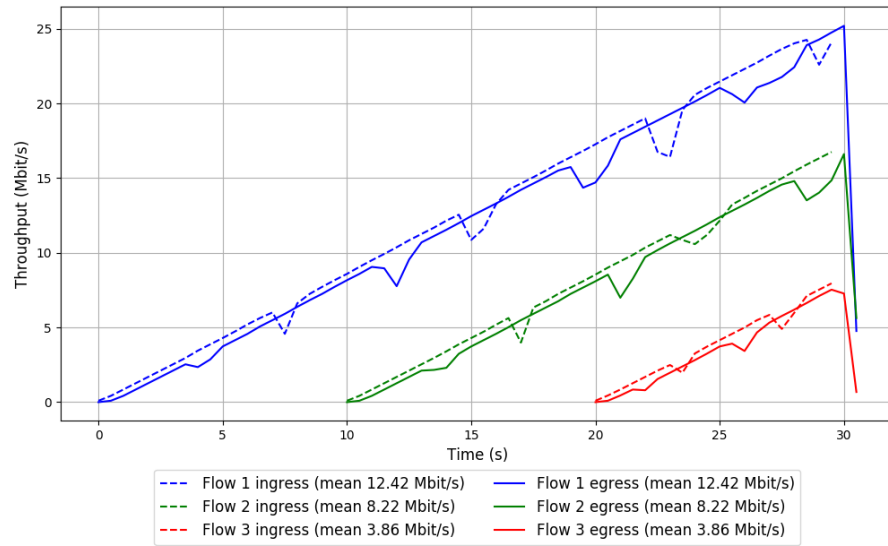



```
Run 1: Statistics of LEDBAT

Start at: 2018-12-20 01:37:03
End at: 2018-12-20 01:37:33
Local clock offset: -0.407 ms
Remote clock offset: 10.117 ms

# Below is generated by plot.py at 2018-12-20 03:41:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.16 Mbit/s
95th percentile per-packet one-way delay: 85.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 85.183 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 84.309 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 85.236 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

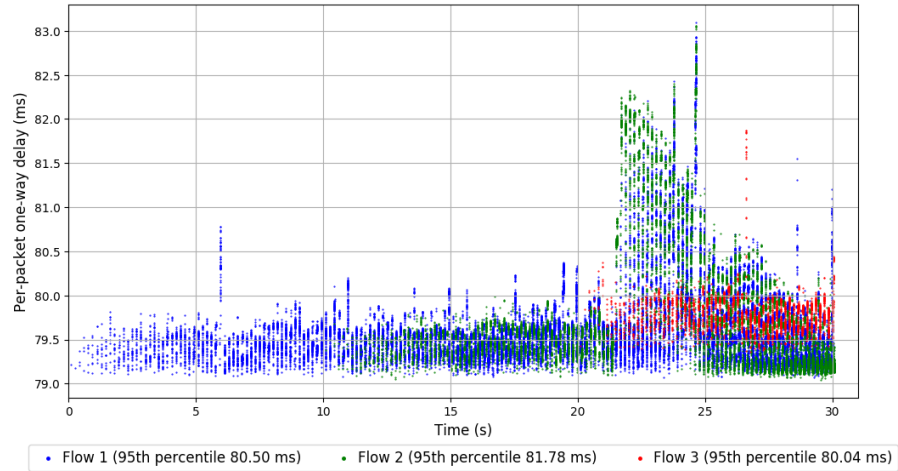
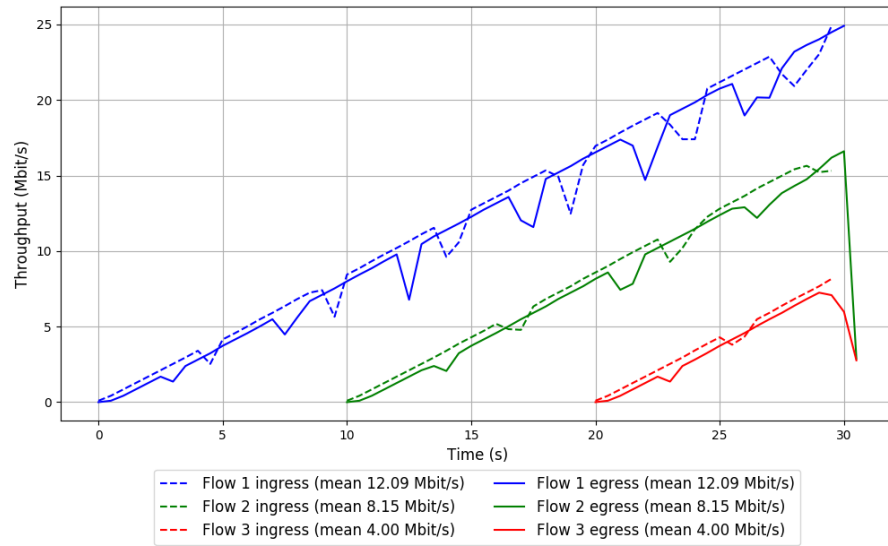


```
Run 2: Statistics of LEDBAT

Start at: 2018-12-20 02:01:07
End at: 2018-12-20 02:01:37
Local clock offset: -0.871 ms
Remote clock offset: 3.386 ms

# Below is generated by plot.py at 2018-12-20 03:41:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 80.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 80.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 81.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 80.038 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-12-20 02:25:08

End at: 2018-12-20 02:25:38

Local clock offset: -6.867 ms

Remote clock offset: 7.228 ms

Below is generated by plot.py at 2018-12-20 03:41:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 92.754 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 93.334 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 88.444 ms

Loss rate: 0.00%

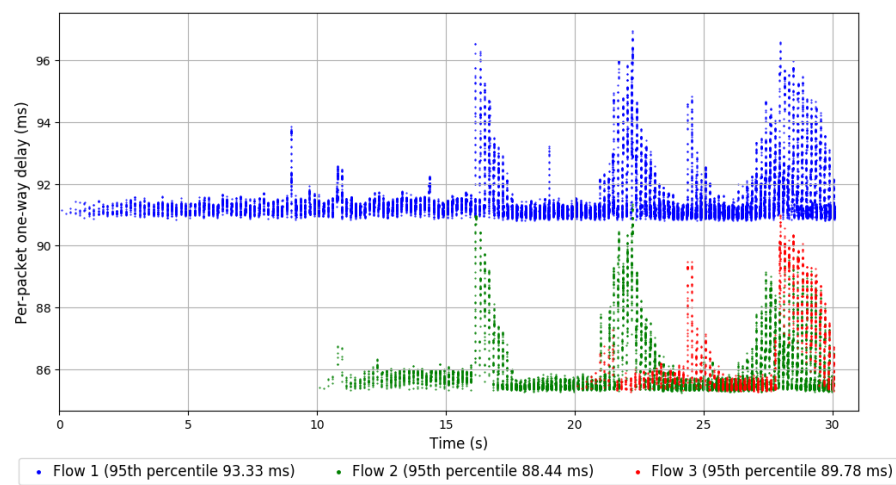
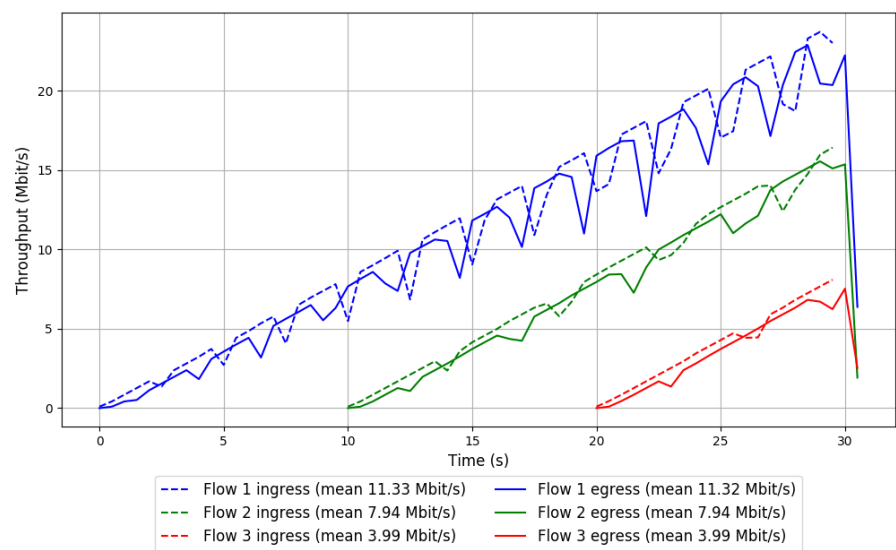
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 89.776 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-12-20 02:49:12

End at: 2018-12-20 02:49:42

Local clock offset: -7.169 ms

Remote clock offset: 2.615 ms

Below is generated by plot.py at 2018-12-20 03:41:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 88.919 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 86.849 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 0.00%

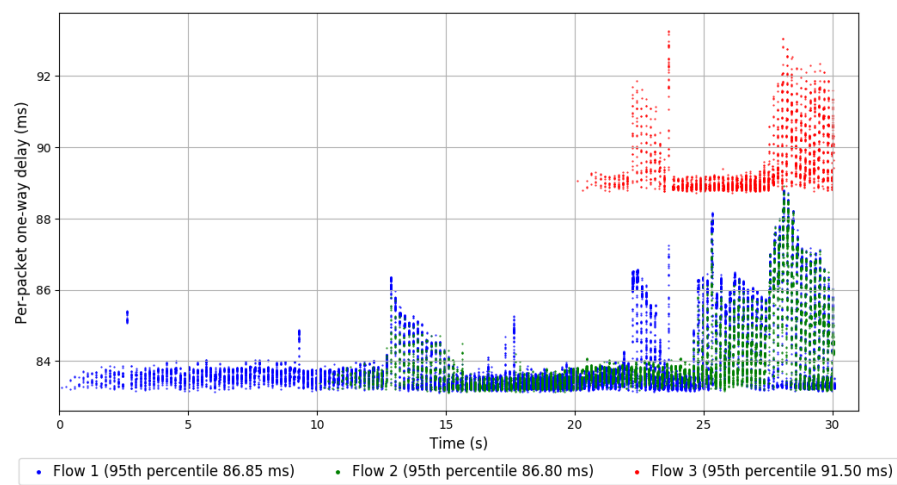
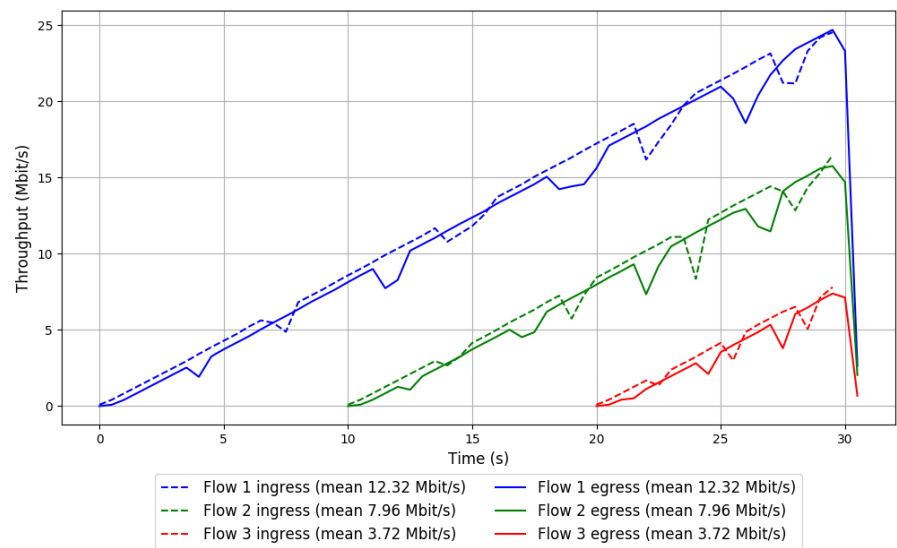
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 91.495 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-20 03:13:15

End at: 2018-12-20 03:13:45

Local clock offset: -7.044 ms

Remote clock offset: 2.446 ms

Below is generated by plot.py at 2018-12-20 03:41:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.47 Mbit/s

95th percentile per-packet one-way delay: 92.287 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 88.354 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 93.233 ms

Loss rate: 0.00%

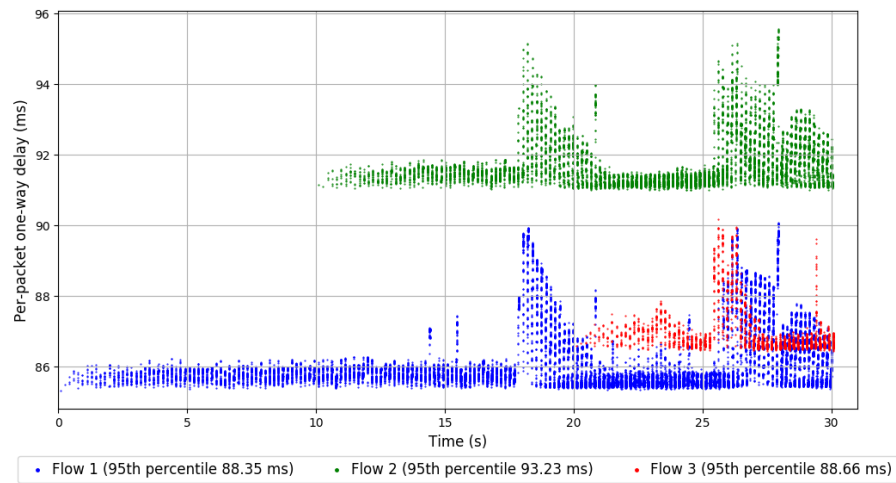
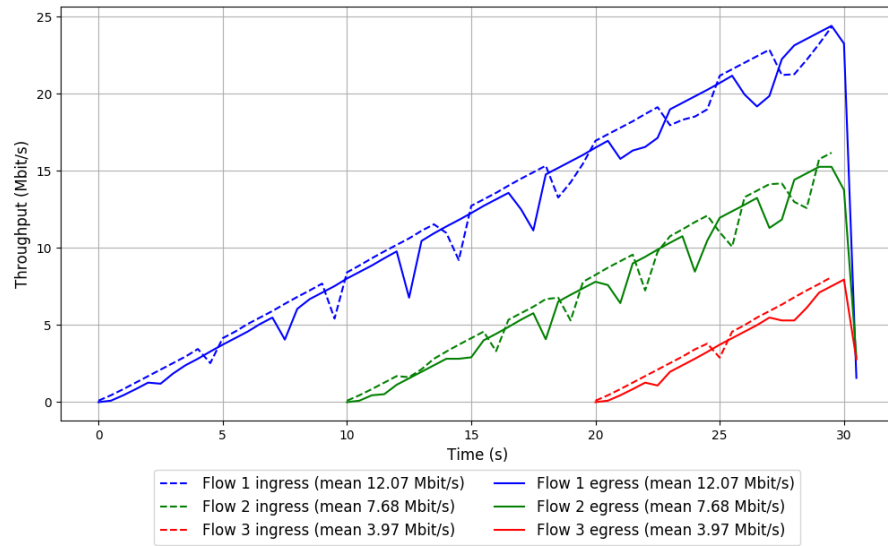
-- Flow 3:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 88.656 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

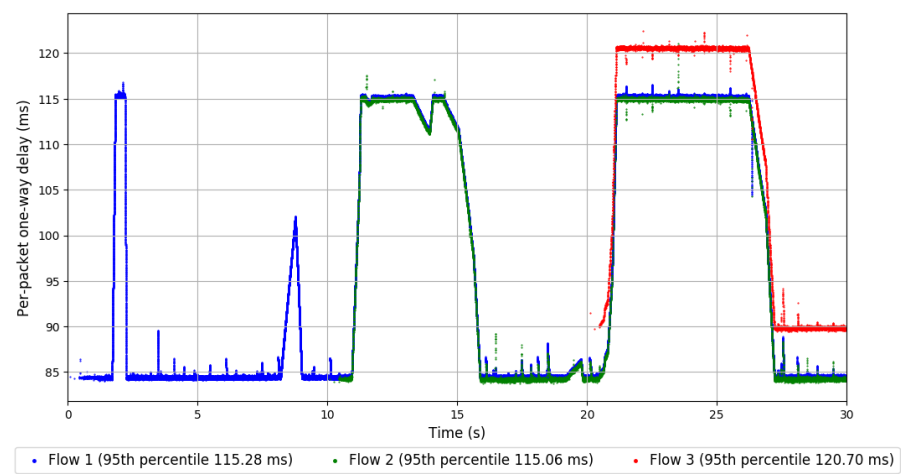
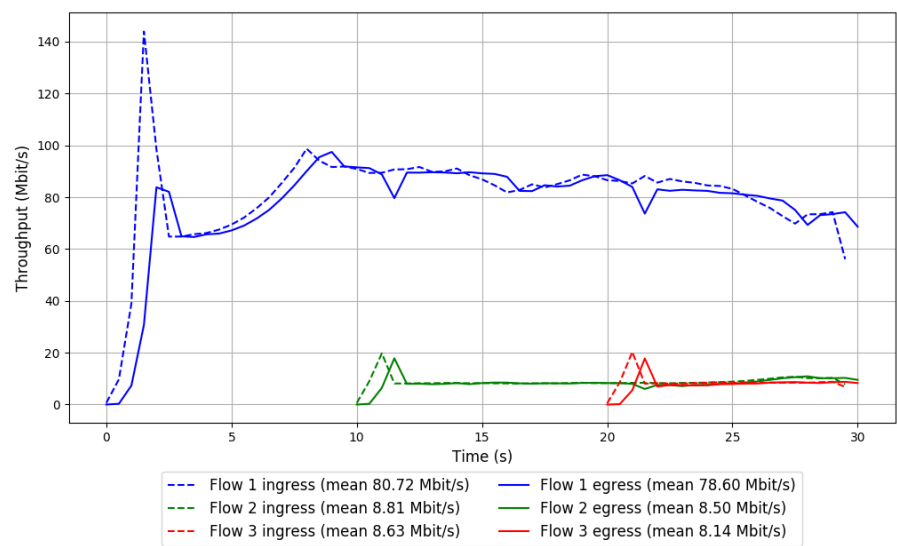


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-20 01:35:47
End at: 2018-12-20 01:36:17
Local clock offset: -0.17 ms
Remote clock offset: 11.324 ms

# Below is generated by plot.py at 2018-12-20 03:41:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 115.303 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 78.60 Mbit/s
95th percentile per-packet one-way delay: 115.279 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 115.055 ms
Loss rate: 3.48%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 120.699 ms
Loss rate: 5.73%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-20 01:59:51

End at: 2018-12-20 02:00:21

Local clock offset: -0.878 ms

Remote clock offset: 7.824 ms

Below is generated by plot.py at 2018-12-20 03:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 115.457 ms

Loss rate: 3.02%

-- Flow 1:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 115.446 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 114.700 ms

Loss rate: 4.42%

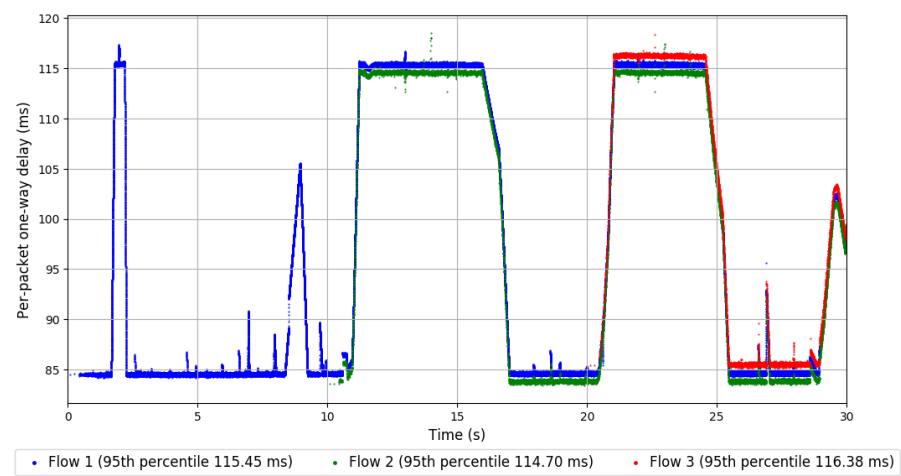
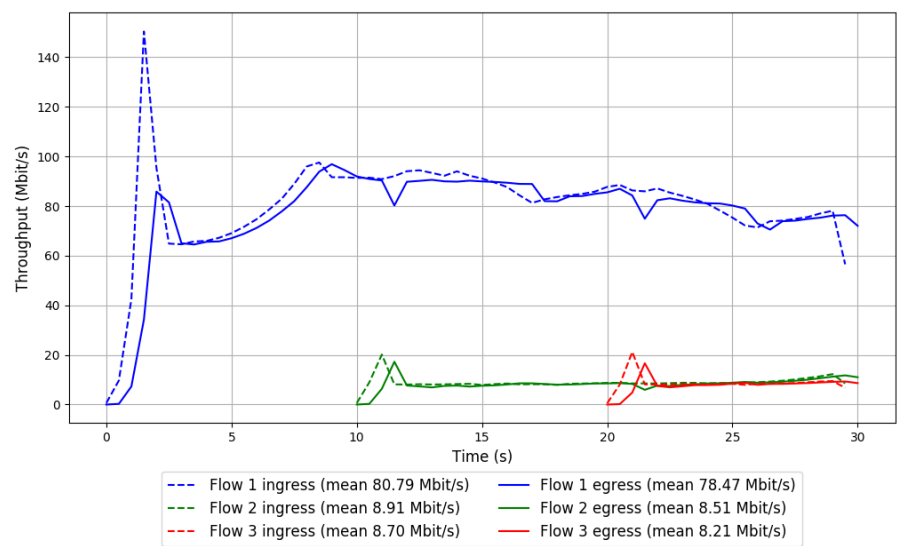
-- Flow 3:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 116.381 ms

Loss rate: 5.53%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-12-20 02:23:52

End at: 2018-12-20 02:24:22

Local clock offset: -6.679 ms

Remote clock offset: 6.215 ms

Below is generated by plot.py at 2018-12-20 03:41:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.94 Mbit/s

95th percentile per-packet one-way delay: 115.138 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 115.121 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 115.170 ms

Loss rate: 3.90%

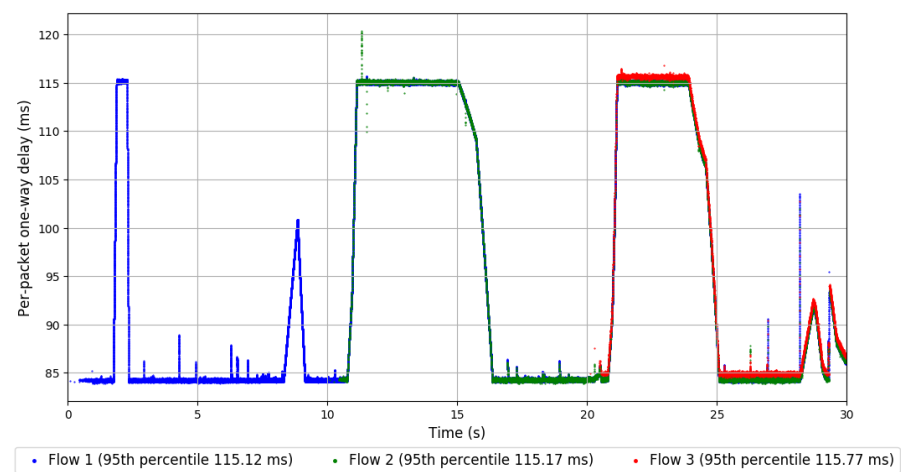
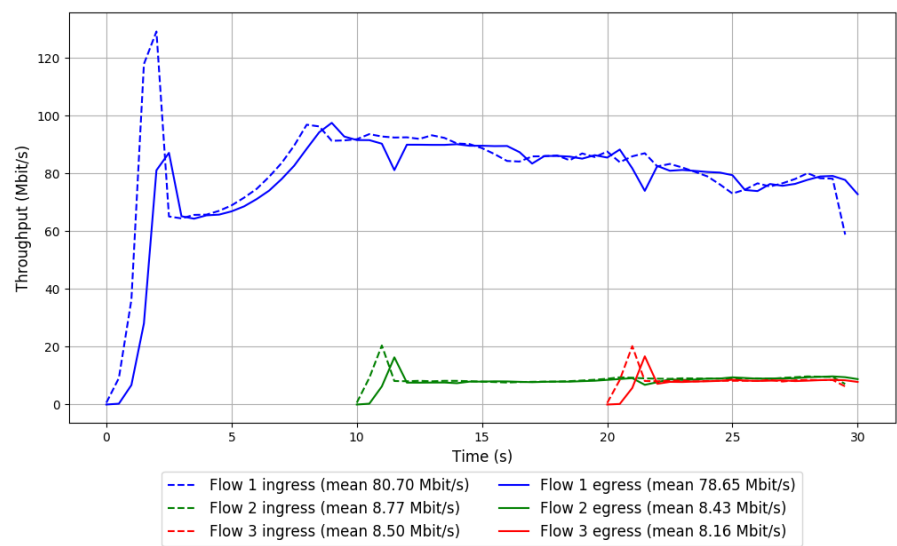
-- Flow 3:

Average throughput: 8.16 Mbit/s

95th percentile per-packet one-way delay: 115.771 ms

Loss rate: 3.98%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-12-20 02:47:56

End at: 2018-12-20 02:48:26

Local clock offset: -7.096 ms

Remote clock offset: 5.129 ms

Below is generated by plot.py at 2018-12-20 03:41:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 116.480 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 79.55 Mbit/s

95th percentile per-packet one-way delay: 116.460 ms

Loss rate: 2.64%

-- Flow 2:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 116.491 ms

Loss rate: 4.43%

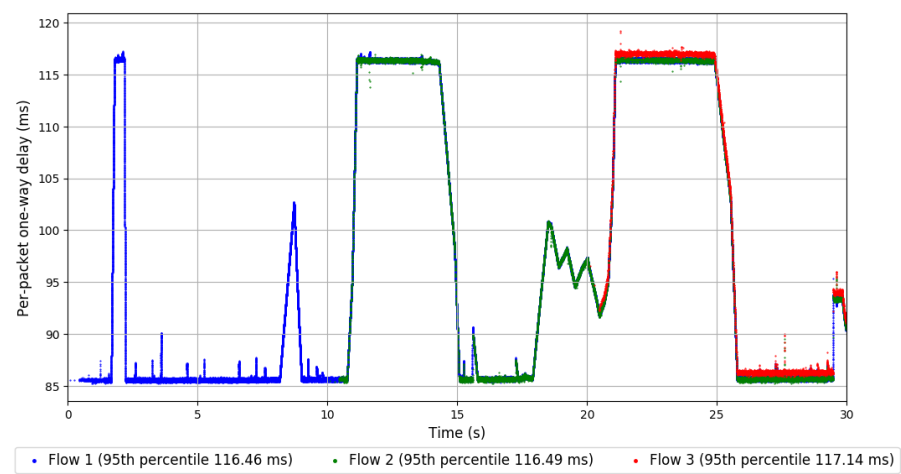
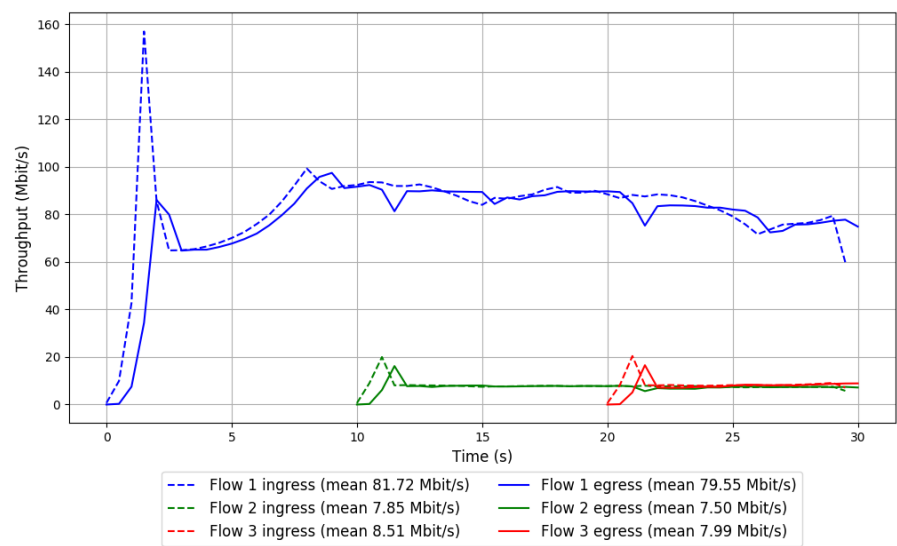
-- Flow 3:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 117.144 ms

Loss rate: 6.19%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-12-20 03:11:59

End at: 2018-12-20 03:12:29

Local clock offset: -7.024 ms

Remote clock offset: 1.614 ms

Below is generated by plot.py at 2018-12-20 03:41:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 117.015 ms

Loss rate: 4.09%

-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 115.478 ms

Loss rate: 3.76%

-- Flow 2:

Average throughput: 14.49 Mbit/s

95th percentile per-packet one-way delay: 117.439 ms

Loss rate: 6.61%

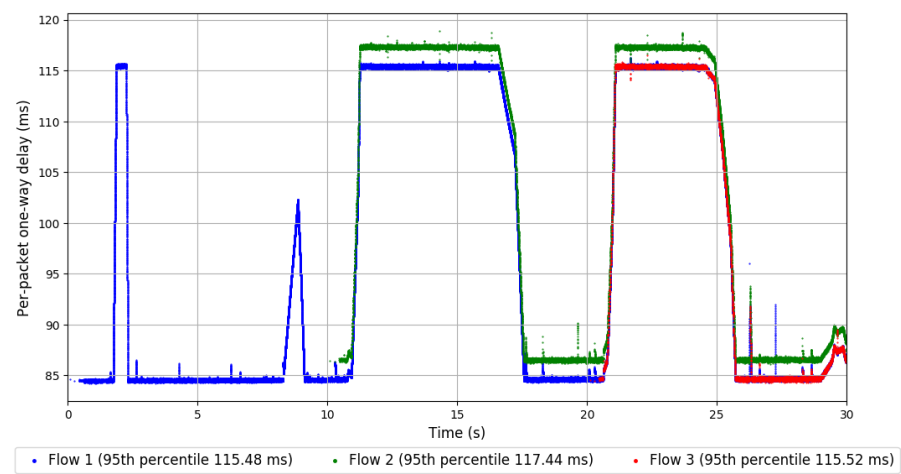
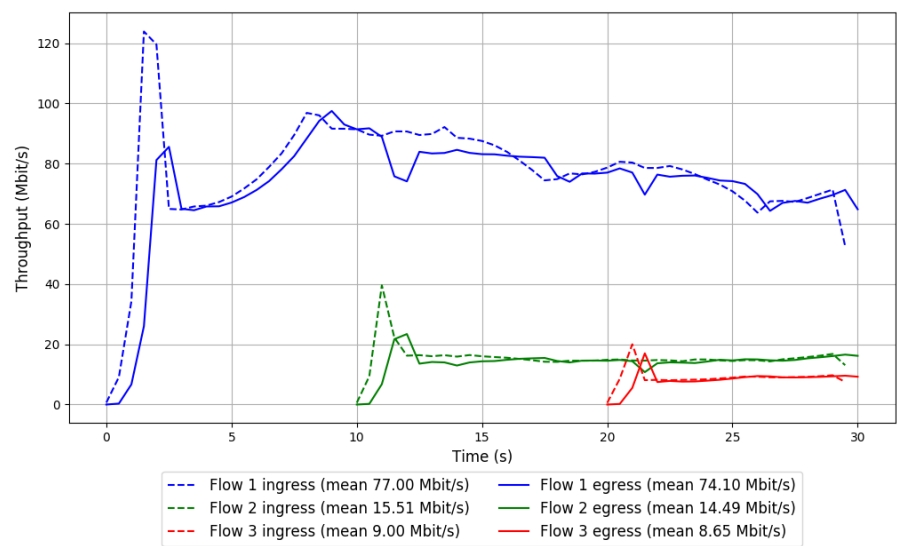
-- Flow 3:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 115.516 ms

Loss rate: 3.91%

Run 5: Report of PCC-Allegro — Data Link

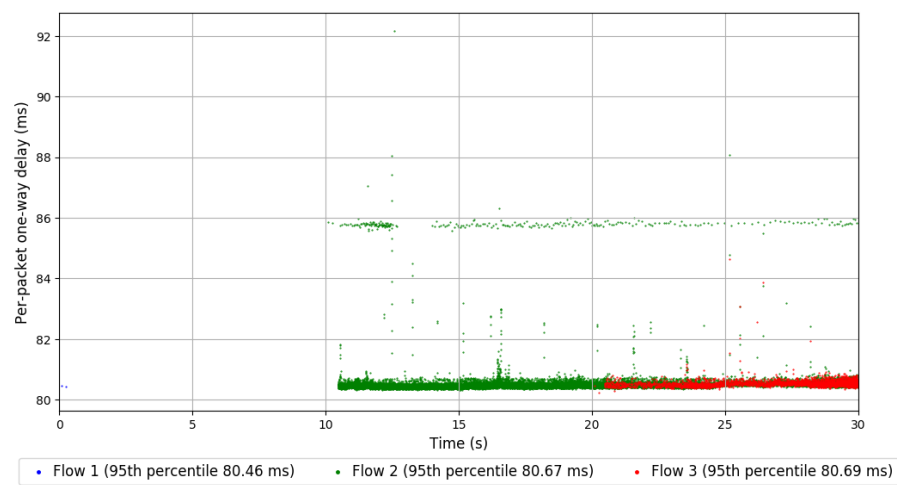
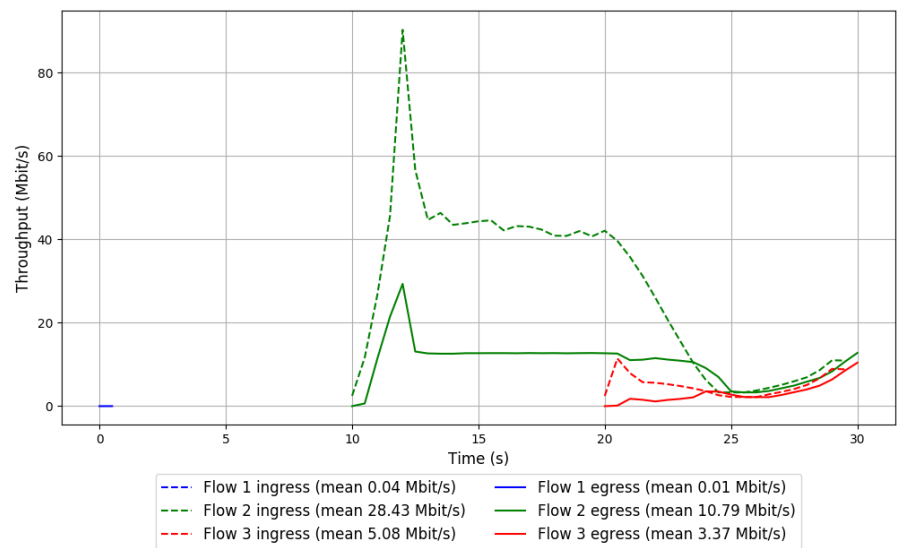


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-20 01:53:25
End at: 2018-12-20 01:53:55
Local clock offset: -0.992 ms
Remote clock offset: 5.463 ms

# Below is generated by plot.py at 2018-12-20 03:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 80.679 ms
Loss rate: 59.75%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 80.457 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.79 Mbit/s
95th percentile per-packet one-way delay: 80.673 ms
Loss rate: 62.07%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 80.695 ms
Loss rate: 33.62%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-12-20 02:17:28

End at: 2018-12-20 02:17:58

Local clock offset: -5.61 ms

Remote clock offset: 2.931 ms

Below is generated by plot.py at 2018-12-20 03:41:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 80.402 ms

Loss rate: 60.09%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 81.060 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 80.398 ms

Loss rate: 62.43%

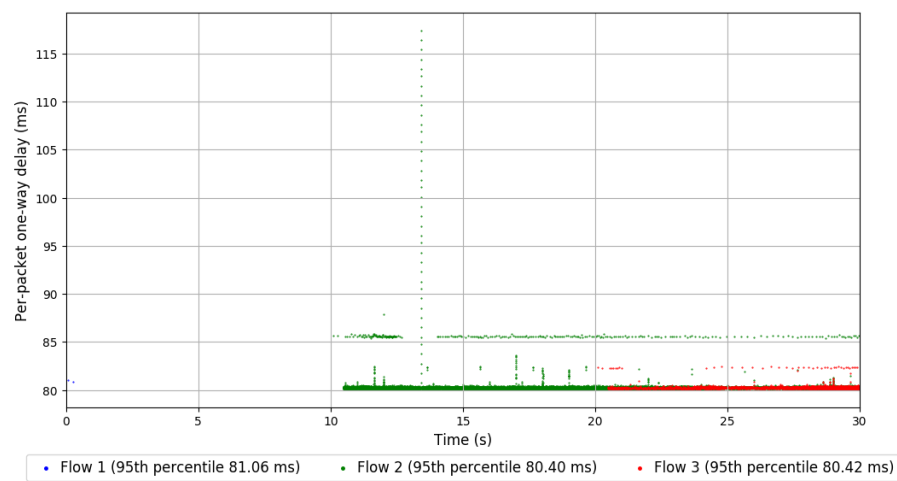
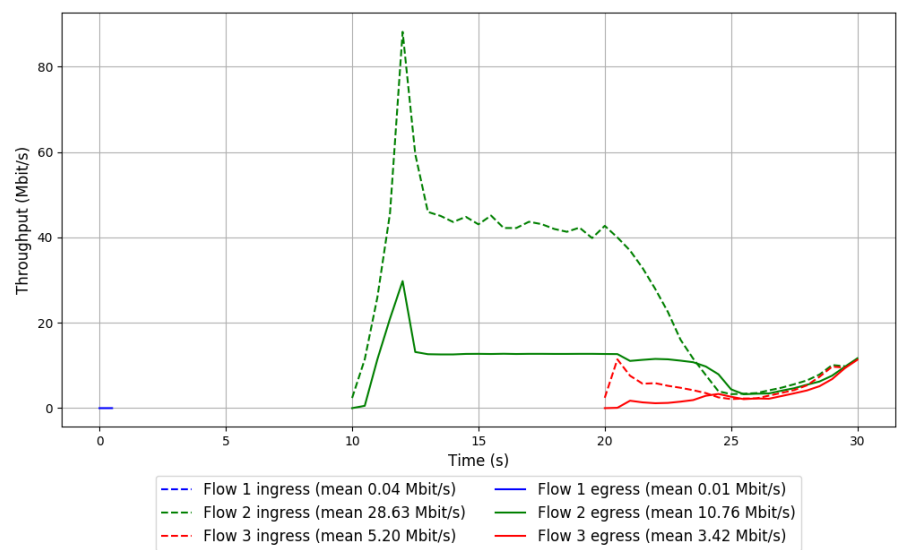
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 80.417 ms

Loss rate: 34.18%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-12-20 02:41:30

End at: 2018-12-20 02:42:00

Local clock offset: -7.229 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-12-20 03:41:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 80.476 ms

Loss rate: 50.71%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 80.467 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 80.472 ms

Loss rate: 56.93%

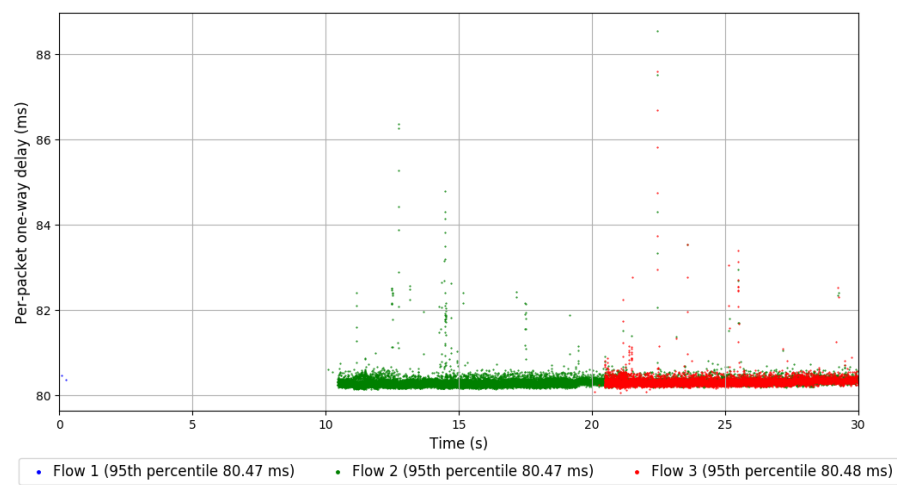
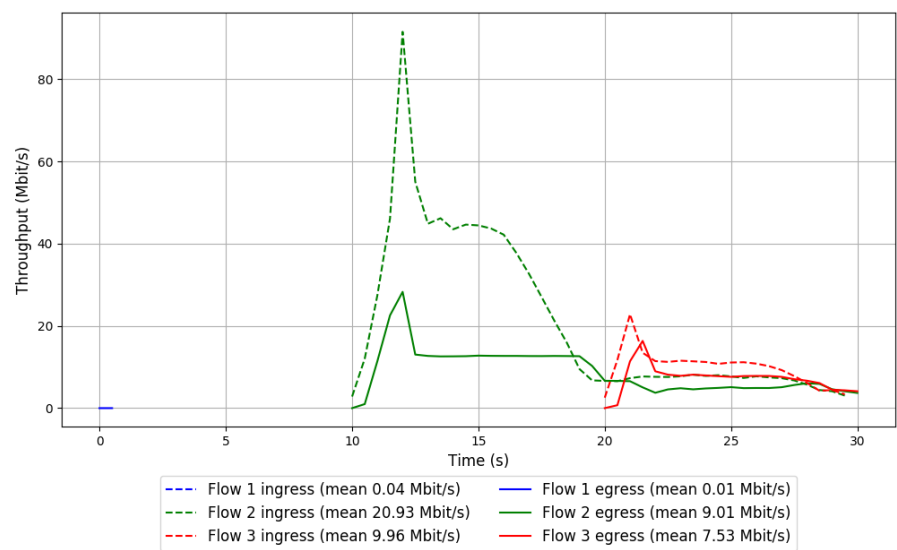
-- Flow 3:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 80.483 ms

Loss rate: 24.39%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-12-20 03:05:32

End at: 2018-12-20 03:06:02

Local clock offset: -7.39 ms

Remote clock offset: 3.456 ms

Below is generated by plot.py at 2018-12-20 03:41:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.70 Mbit/s

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

Loss rate: 56.79%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 87.968 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 85.920 ms

Loss rate: 61.85%

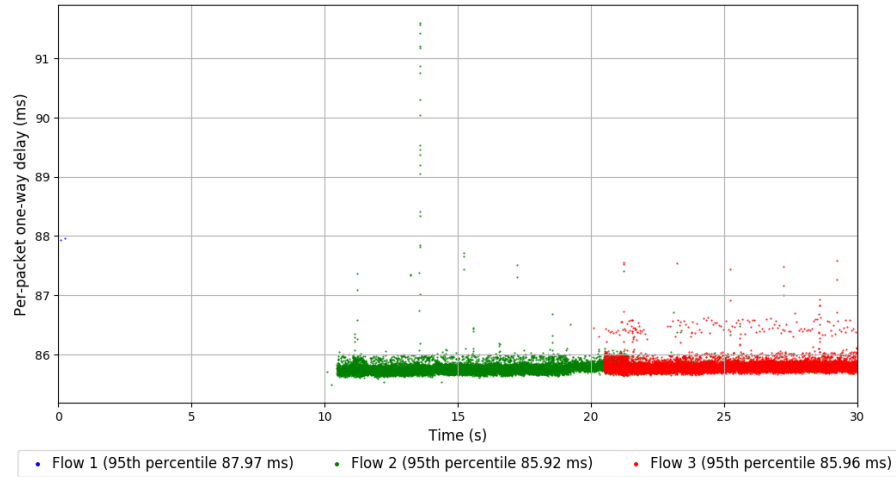
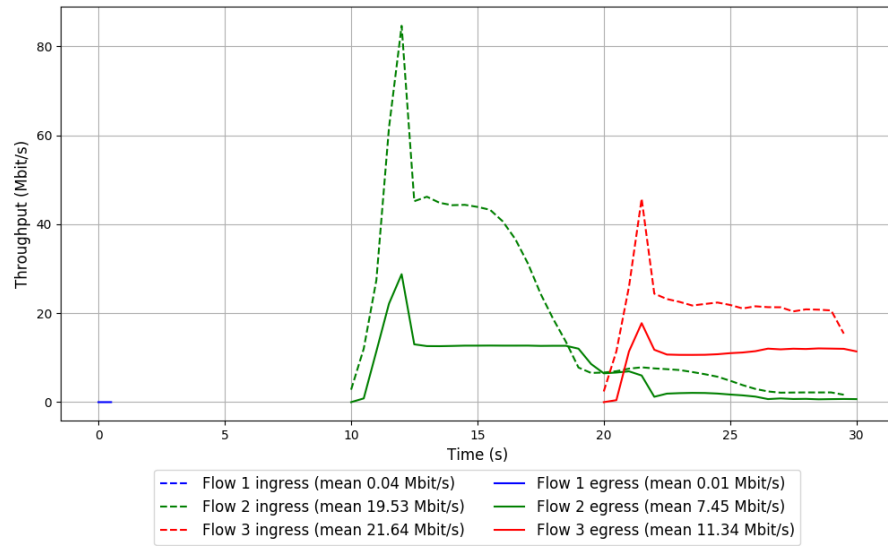
-- Flow 3:

Average throughput: 11.34 Mbit/s

95th percentile per-packet one-way delay: 85.958 ms

Loss rate: 47.61%

Run 4: Report of PCC-Expr — Data Link

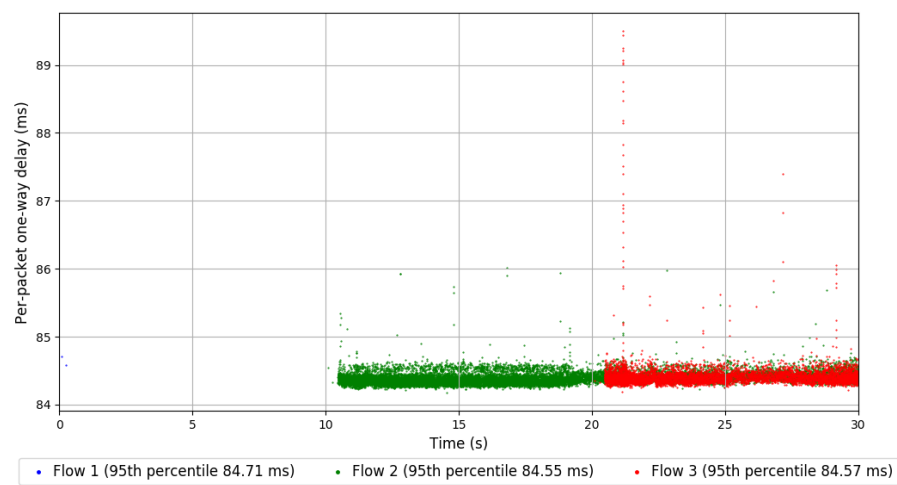
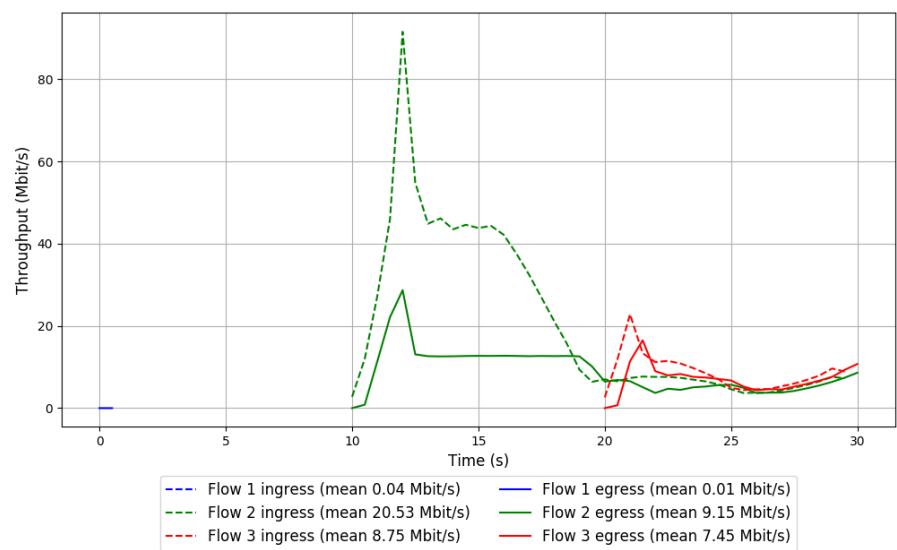


Run 5: Statistics of PCC-Expr

Start at: 2018-12-20 03:29:34
End at: 2018-12-20 03:30:04
Local clock offset: -7.032 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-12-20 03:41:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 84.553 ms
Loss rate: 48.36%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 84.708 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 84.547 ms
Loss rate: 55.44%
-- Flow 3:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 84.569 ms
Loss rate: 14.87%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 01:45:49

End at: 2018-12-20 01:46:19

Local clock offset: -0.949 ms

Remote clock offset: 5.983 ms

Below is generated by plot.py at 2018-12-20 03:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.06 Mbit/s

95th percentile per-packet one-way delay: 105.844 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 107.086 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 18.08 Mbit/s

95th percentile per-packet one-way delay: 102.730 ms

Loss rate: 0.26%

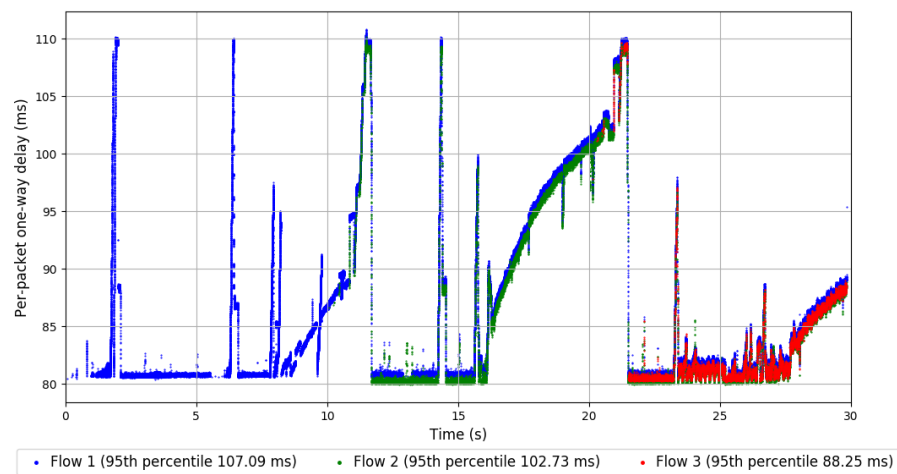
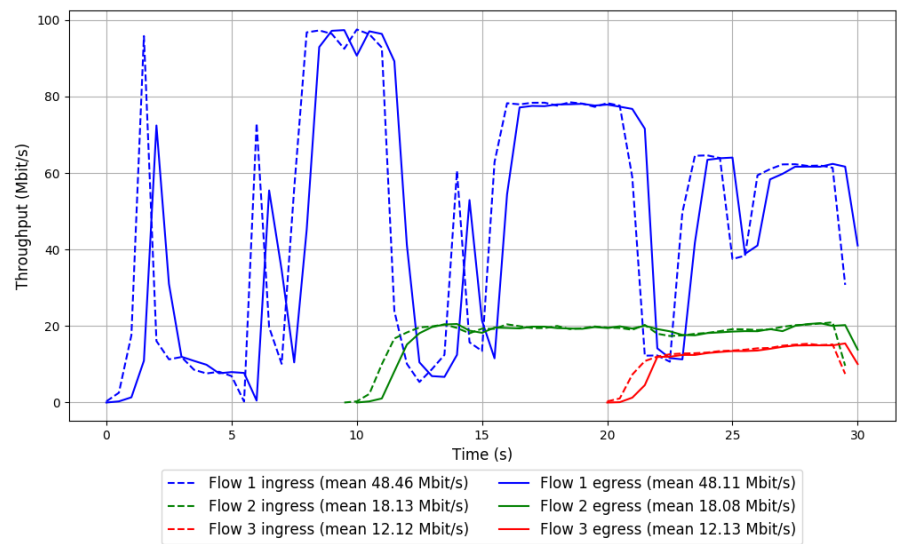
-- Flow 3:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 88.247 ms

Loss rate: 0.03%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-12-20 02:09:52

End at: 2018-12-20 02:10:22

Local clock offset: -3.338 ms

Remote clock offset: 6.274 ms

Below is generated by plot.py at 2018-12-20 03:42:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 109.526 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 48.00 Mbit/s

95th percentile per-packet one-way delay: 110.090 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 18.05 Mbit/s

95th percentile per-packet one-way delay: 107.743 ms

Loss rate: 0.34%

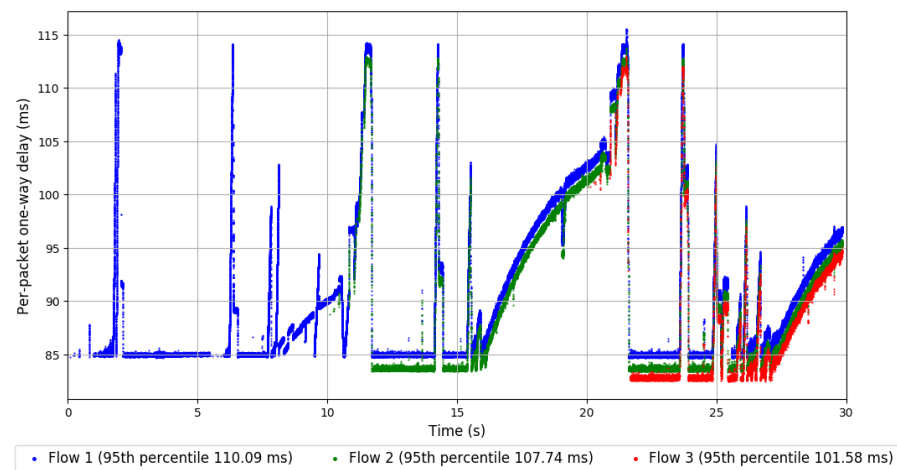
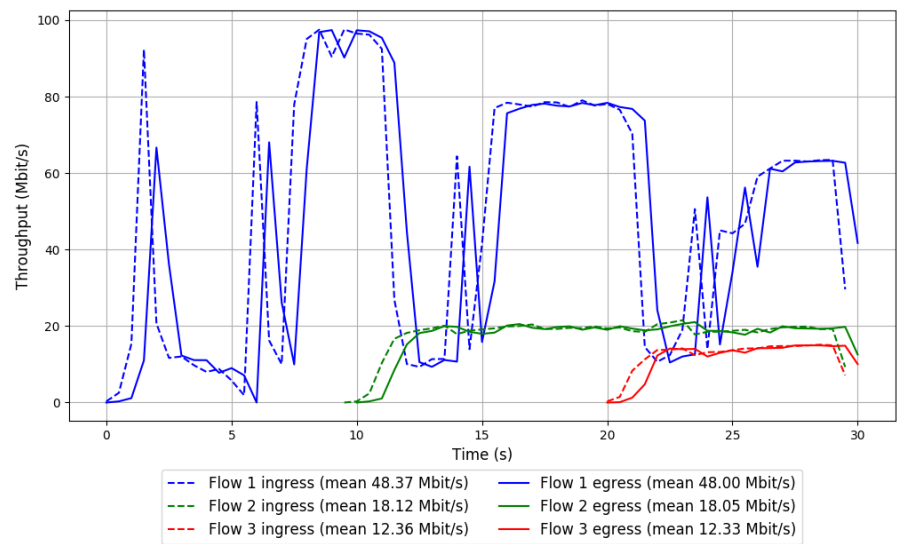
-- Flow 3:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 101.579 ms

Loss rate: 0.31%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-20 02:33:54

End at: 2018-12-20 02:34:24

Local clock offset: -7.594 ms

Remote clock offset: 1.305 ms

Below is generated by plot.py at 2018-12-20 03:42:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 109.624 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 109.295 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 18.76 Mbit/s

95th percentile per-packet one-way delay: 113.941 ms

Loss rate: 1.23%

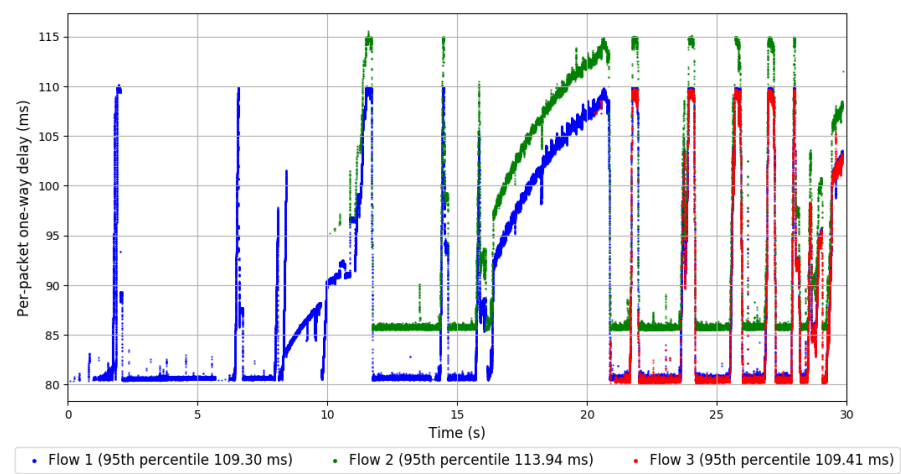
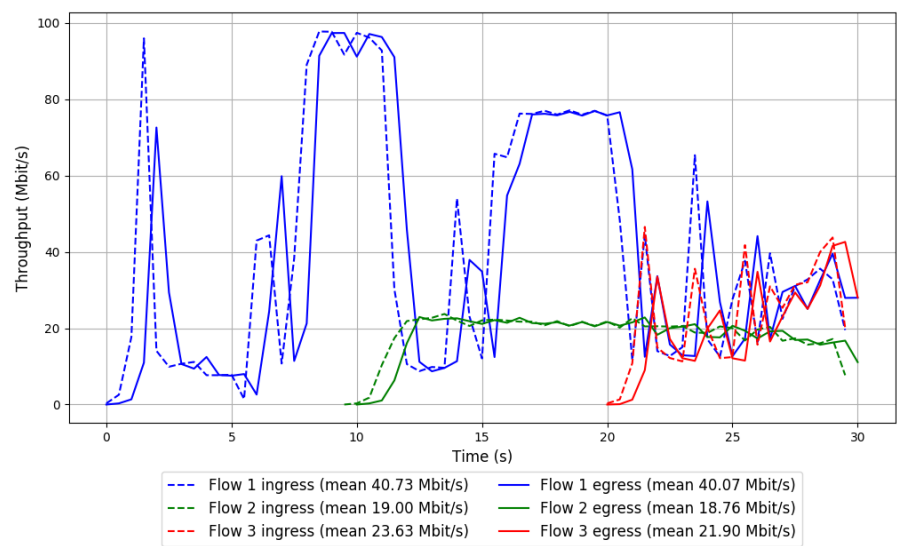
-- Flow 3:

Average throughput: 21.90 Mbit/s

95th percentile per-packet one-way delay: 109.408 ms

Loss rate: 7.34%

Run 3: Report of QUIC Cubic — Data Link

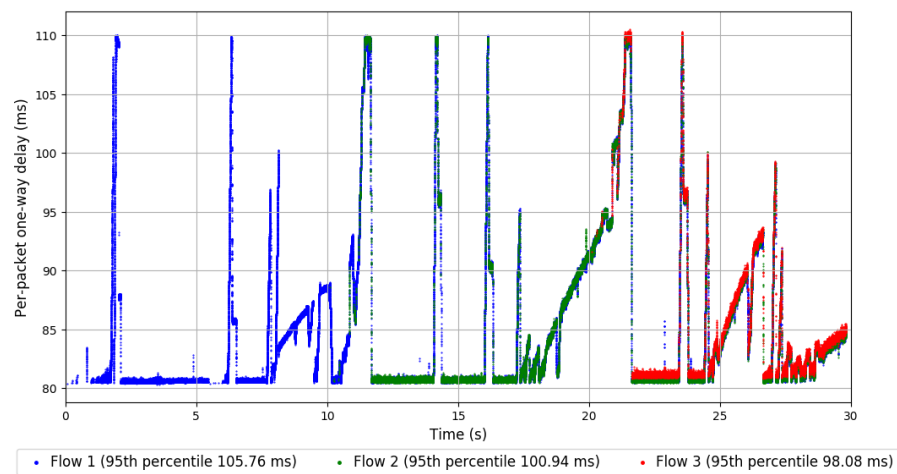
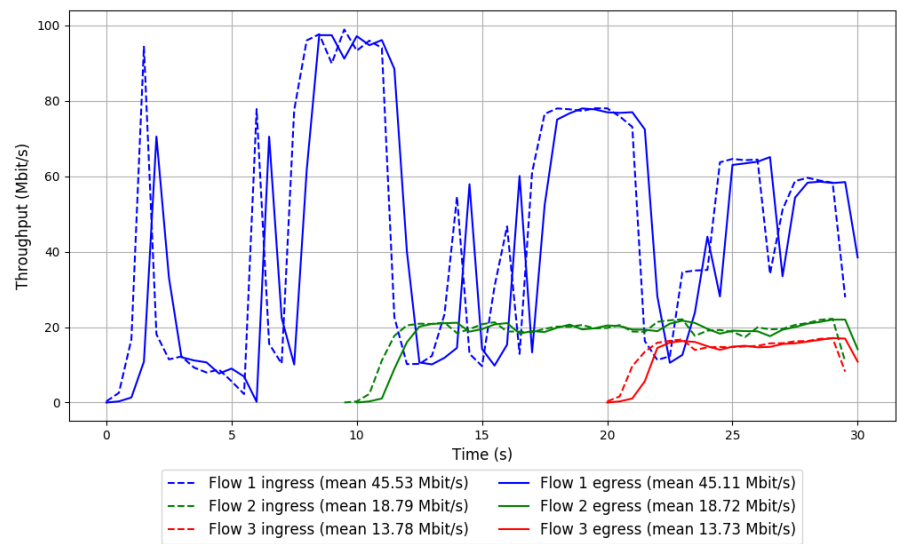


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-20 02:57:58
End at: 2018-12-20 02:58:28
Local clock offset: -7.23 ms
Remote clock offset: -1.088 ms

Below is generated by plot.py at 2018-12-20 03:42:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.01 Mbit/s
95th percentile per-packet one-way delay: 105.021 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 45.11 Mbit/s
95th percentile per-packet one-way delay: 105.757 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 100.941 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 98.075 ms
Loss rate: 0.46%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-20 03:22:00

End at: 2018-12-20 03:22:30

Local clock offset: -6.967 ms

Remote clock offset: 1.515 ms

Below is generated by plot.py at 2018-12-20 03:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 110.511 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 110.937 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 110.004 ms

Loss rate: 0.30%

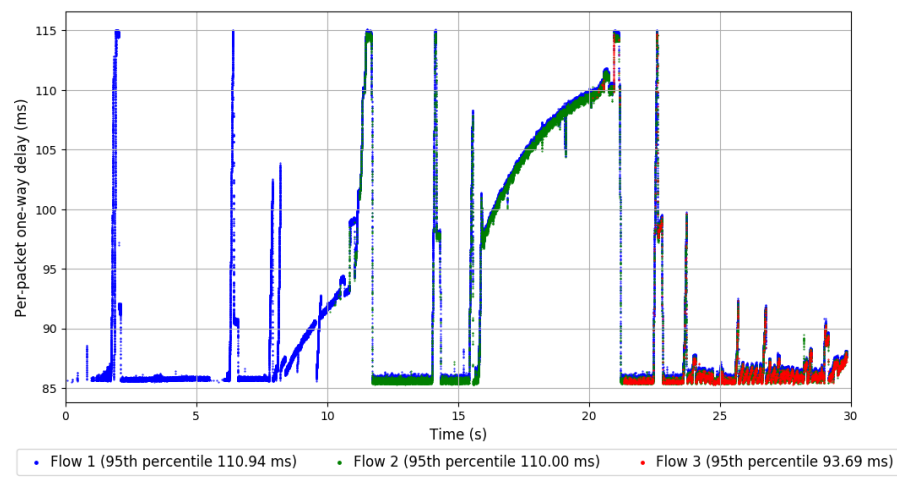
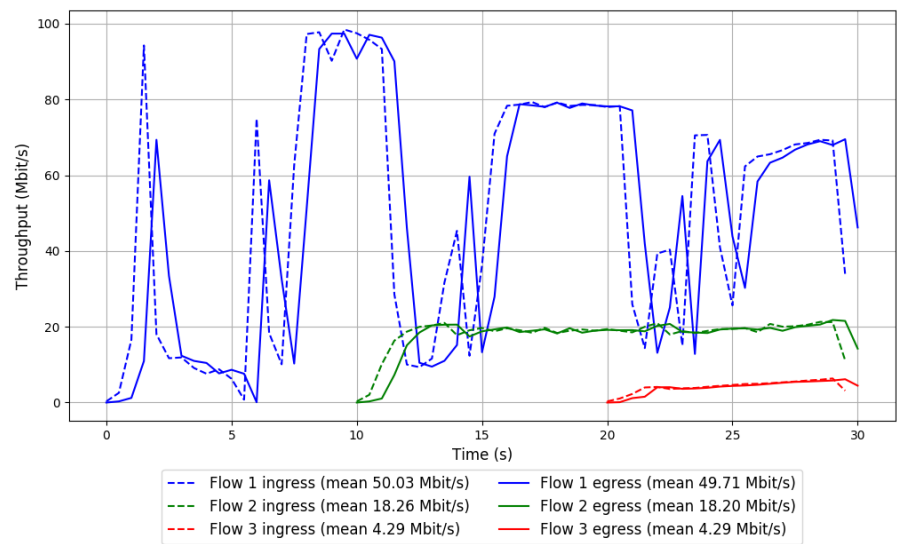
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 93.695 ms

Loss rate: 0.16%

Run 5: Report of QUIC Cubic — Data Link

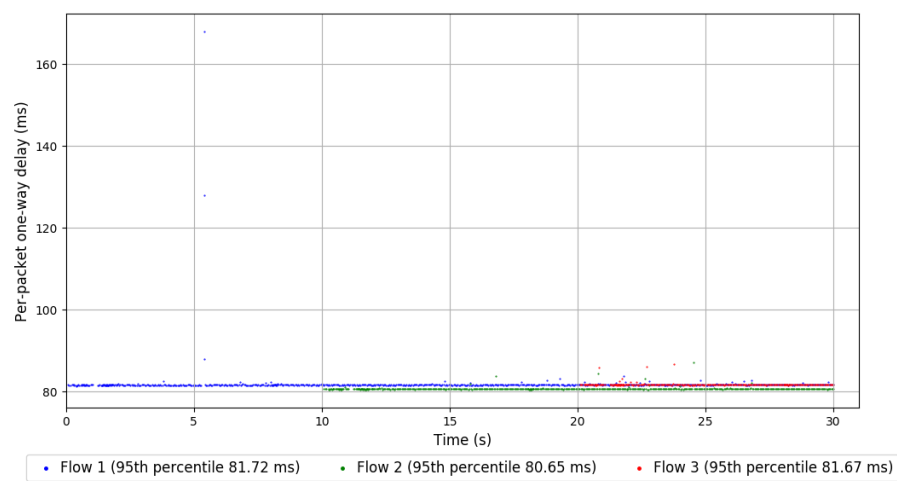
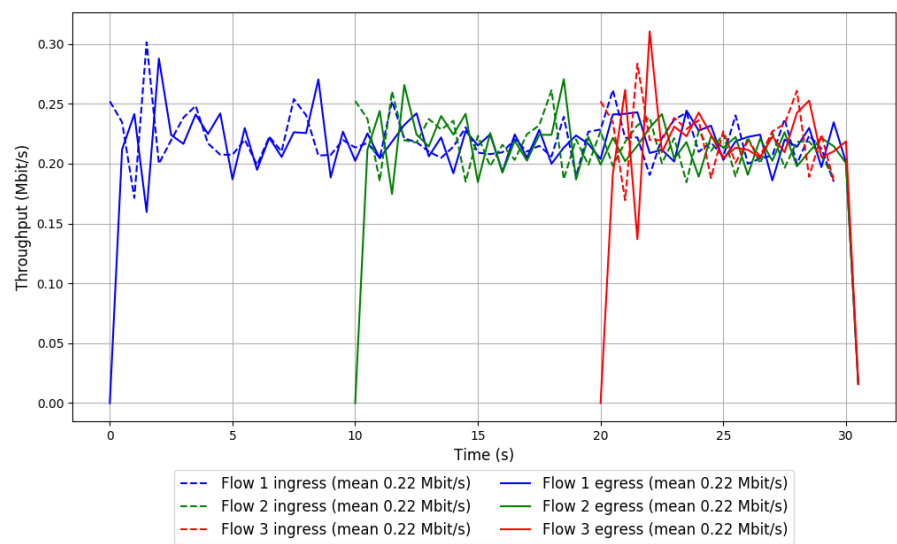



```
Run 1: Statistics of SReAM

Start at: 2018-12-20 01:47:06
End at: 2018-12-20 01:47:36
Local clock offset: -0.97 ms
Remote clock offset: 6.2 ms

# Below is generated by plot.py at 2018-12-20 03:42:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.722 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.674 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-12-20 02:11:08

End at: 2018-12-20 02:11:38

Local clock offset: -3.784 ms

Remote clock offset: 3.438 ms

Below is generated by plot.py at 2018-12-20 03:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 80.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.072 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.289 ms

Loss rate: 0.00%

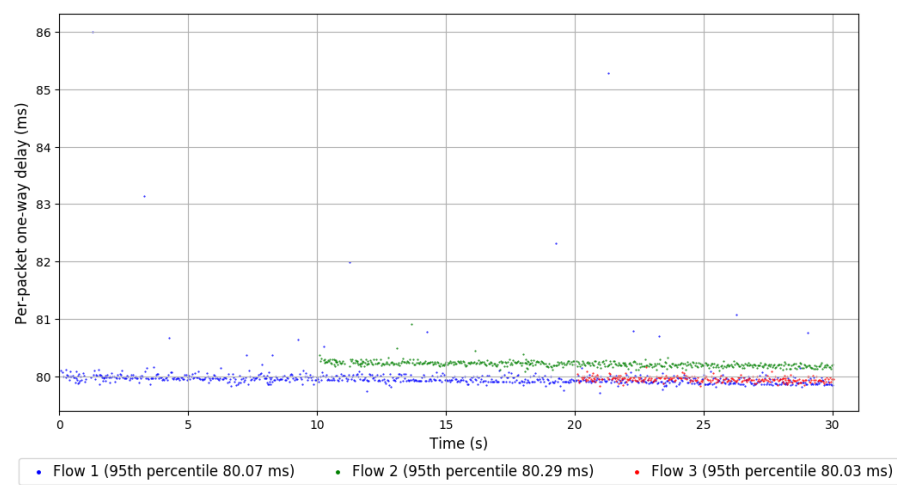
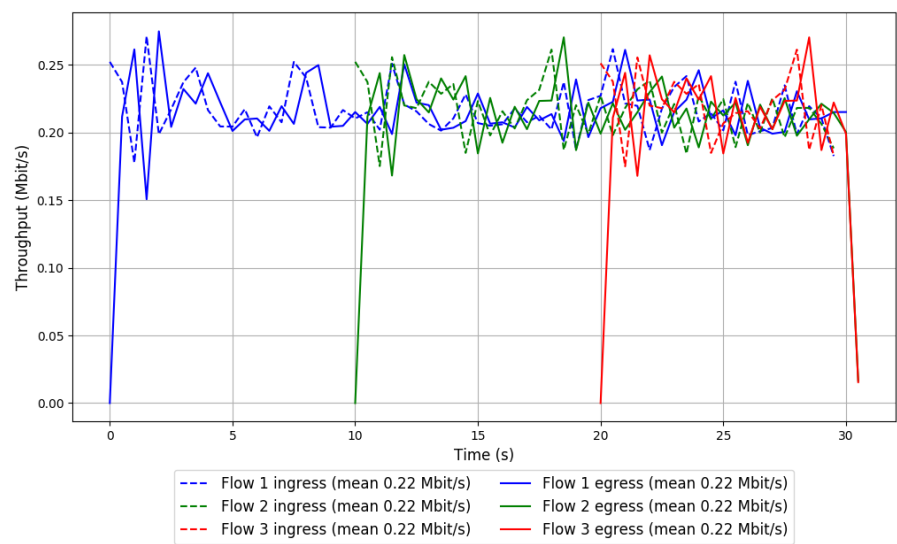
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.026 ms

Loss rate: 0.00%

Run 2: Report of SCReAM — Data Link

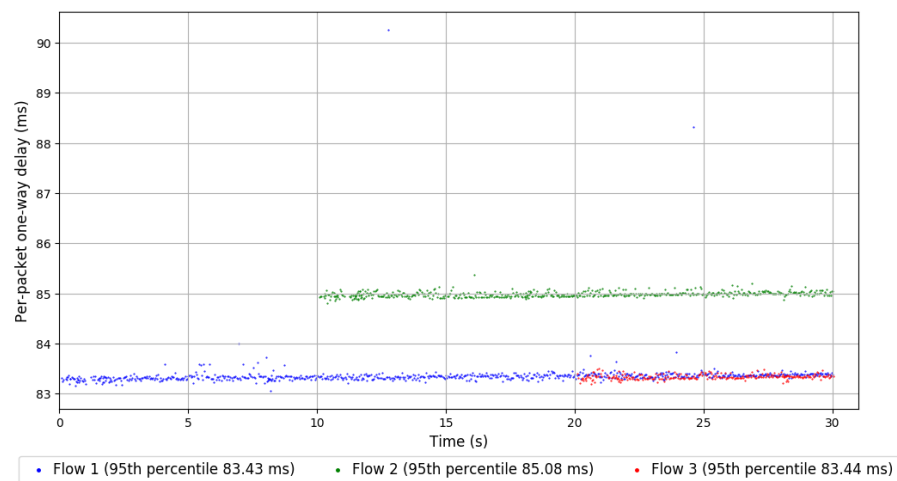
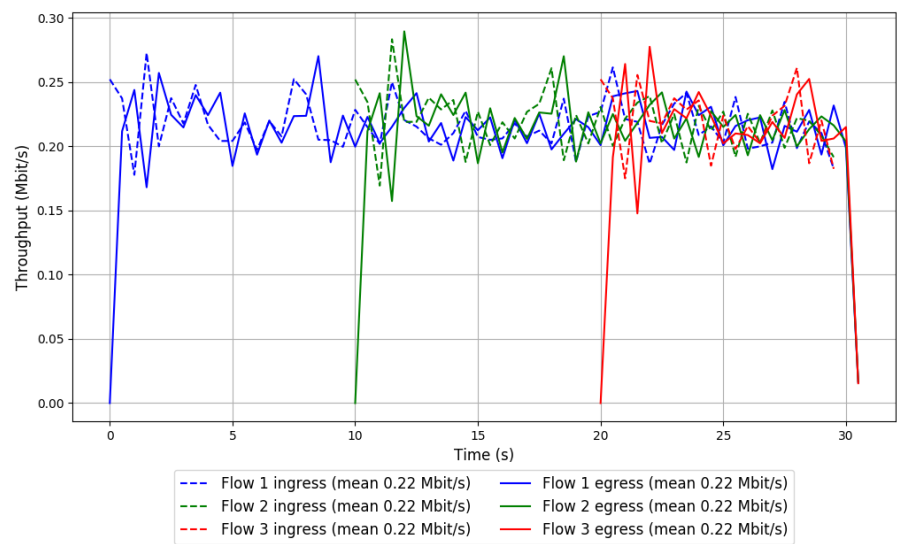


Run 3: Statistics of SReAM

Start at: 2018-12-20 02:35:10
End at: 2018-12-20 02:35:40
Local clock offset: -7.696 ms
Remote clock offset: 3.814 ms

Below is generated by plot.py at 2018-12-20 03:42:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 85.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.083 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.438 ms
Loss rate: 0.00%

Run 3: Report of SCRaM — Data Link

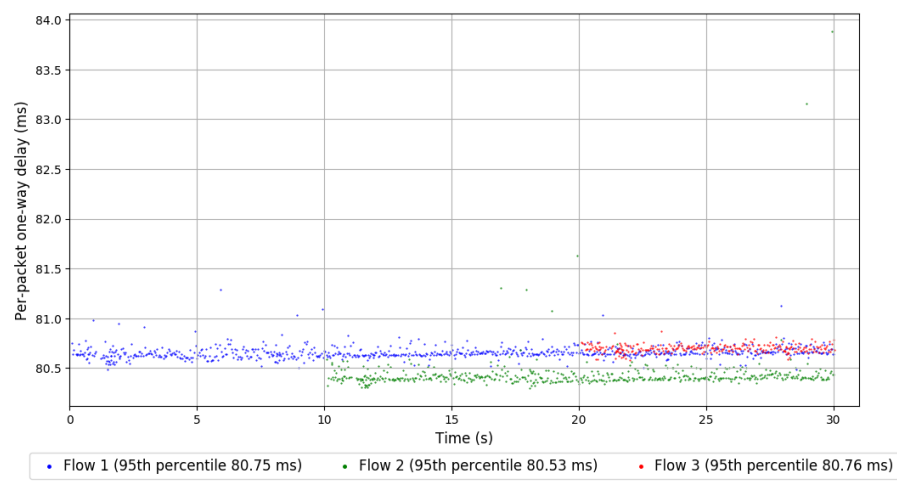
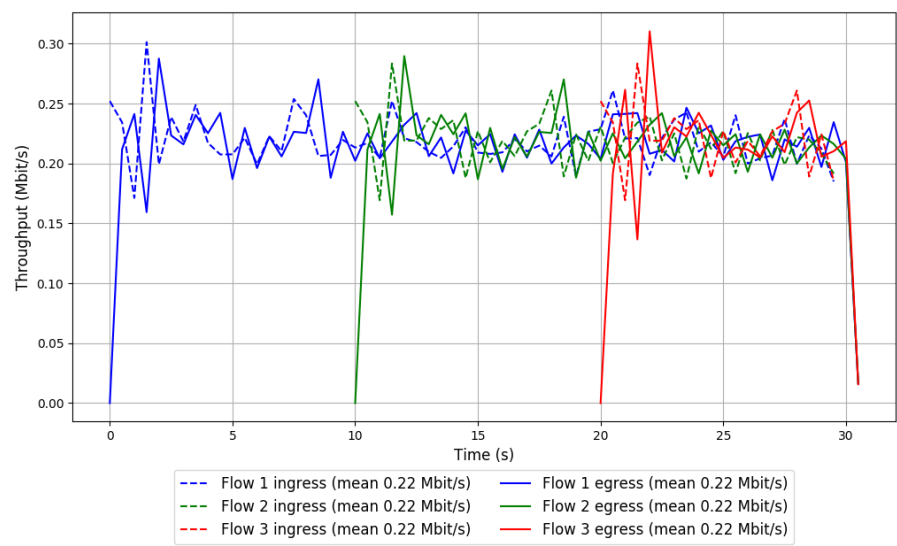


Run 4: Statistics of SReAM

Start at: 2018-12-20 02:59:14
End at: 2018-12-20 02:59:44
Local clock offset: -7.316 ms
Remote clock offset: -1.238 ms

Below is generated by plot.py at 2018-12-20 03:42:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 80.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.750 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.761 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

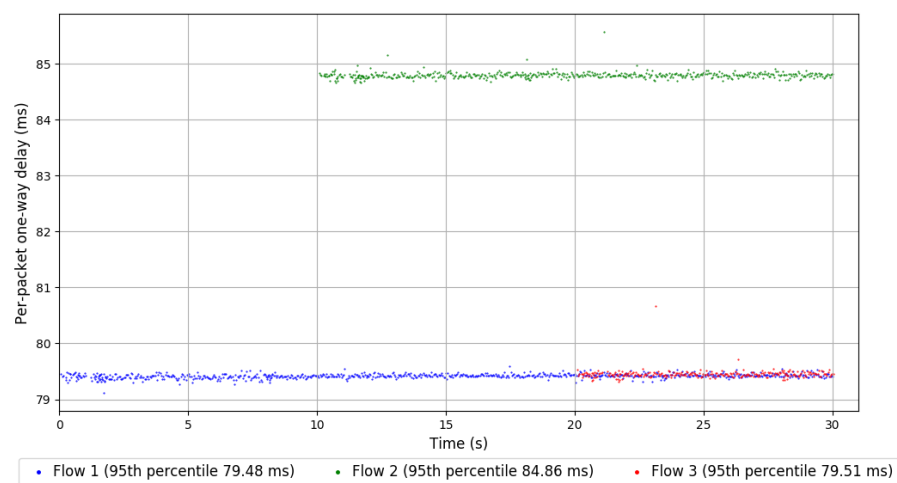
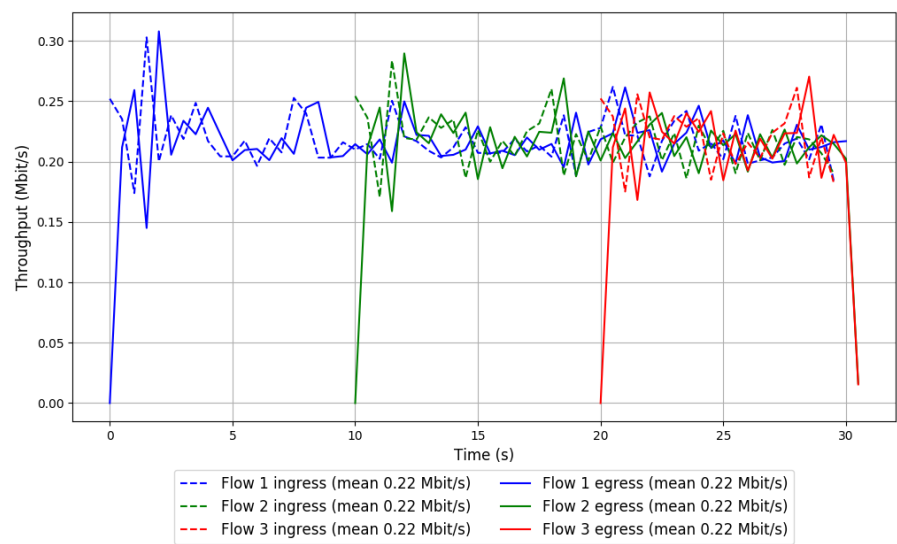


Run 5: Statistics of SReAM

Start at: 2018-12-20 03:23:16
End at: 2018-12-20 03:23:46
Local clock offset: -6.924 ms
Remote clock offset: -4.888 ms

Below is generated by plot.py at 2018-12-20 03:42:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 84.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.483 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.514 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-12-20 01:52:12

End at: 2018-12-20 01:52:42

Local clock offset: -1.014 ms

Remote clock offset: 5.565 ms

Below is generated by plot.py at 2018-12-20 03:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 84.698 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 84.892 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 84.307 ms

Loss rate: 0.00%

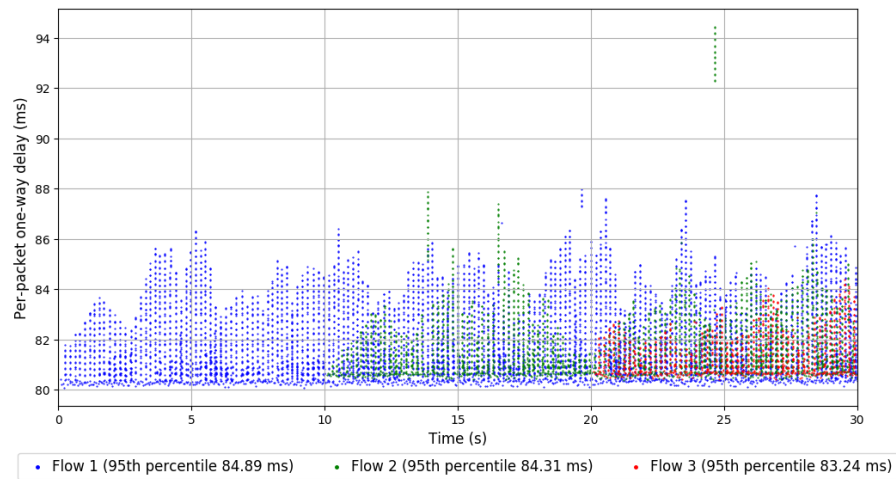
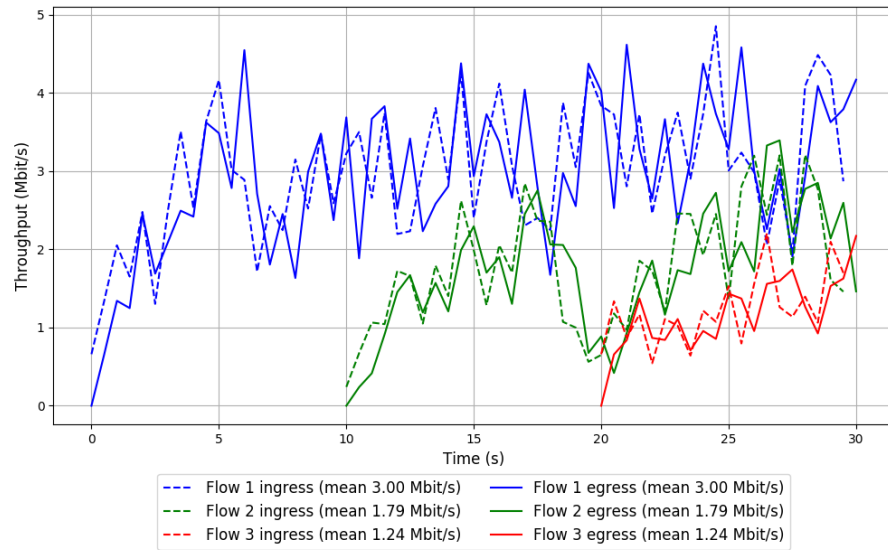
-- Flow 3:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 83.237 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

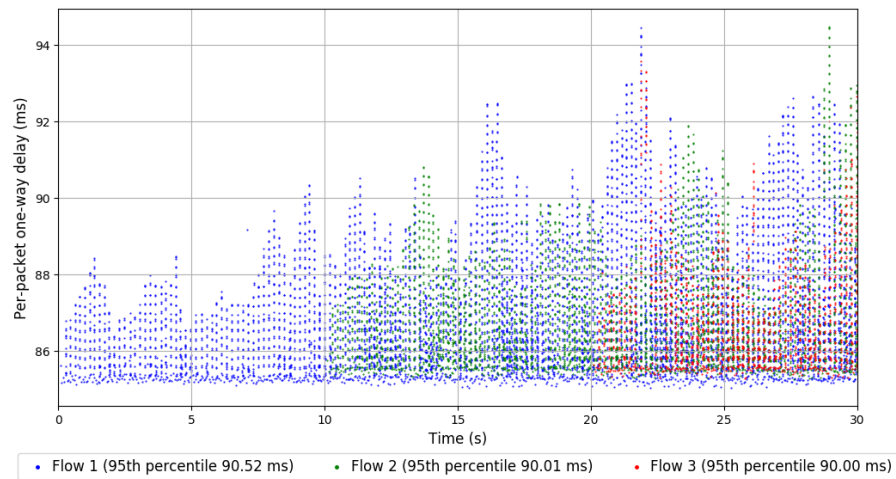
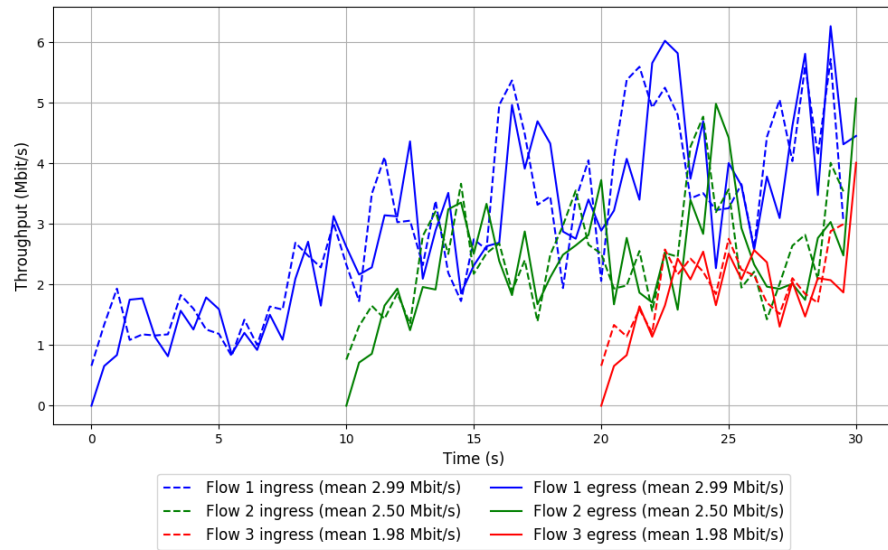


Run 2: Statistics of Sprout

Start at: 2018-12-20 02:16:14
End at: 2018-12-20 02:16:44
Local clock offset: -5.432 ms
Remote clock offset: 8.116 ms

```
# Below is generated by plot.py at 2018-12-20 03:42:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 90.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 90.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 90.013 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 90.005 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

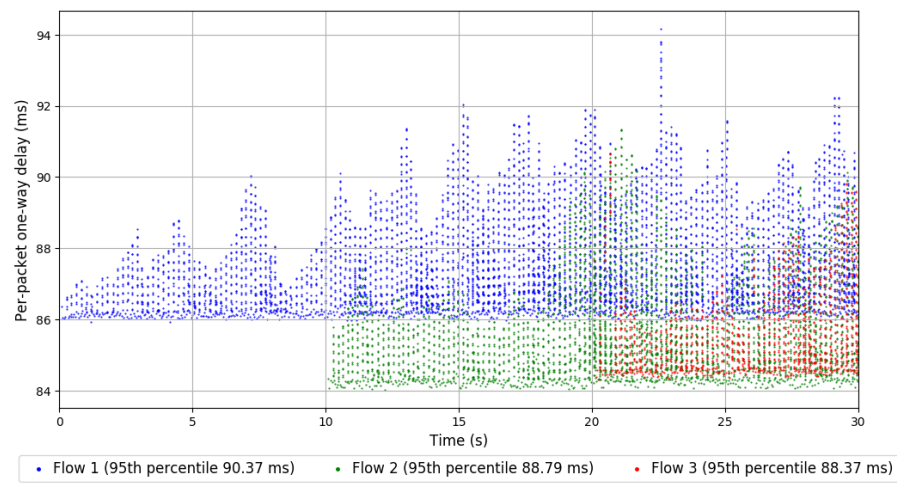
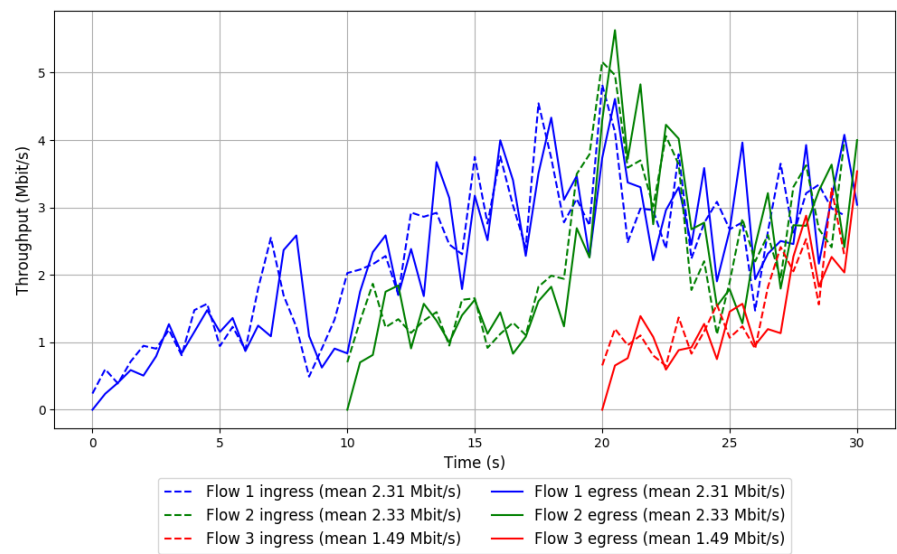


Run 3: Statistics of Sprout

Start at: 2018-12-20 02:40:17
End at: 2018-12-20 02:40:47
Local clock offset: -7.329 ms
Remote clock offset: 4.596 ms

```
# Below is generated by plot.py at 2018-12-20 03:42:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 89.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 90.367 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 88.786 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 88.371 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

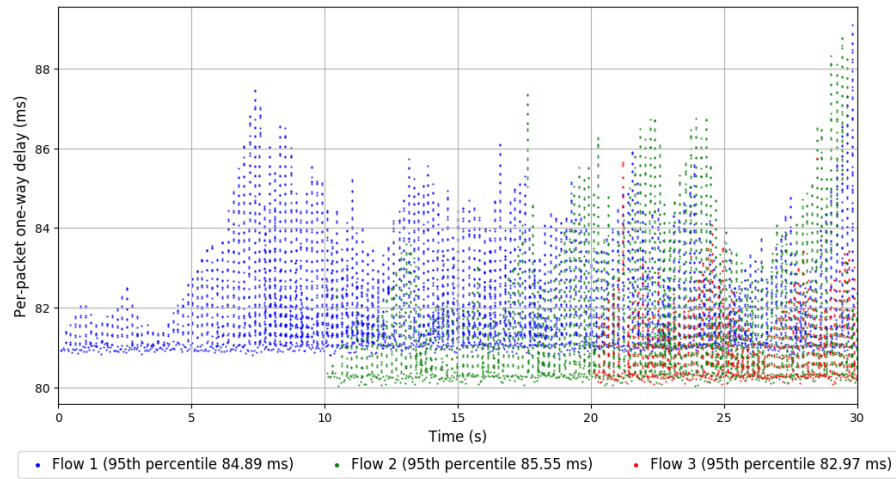
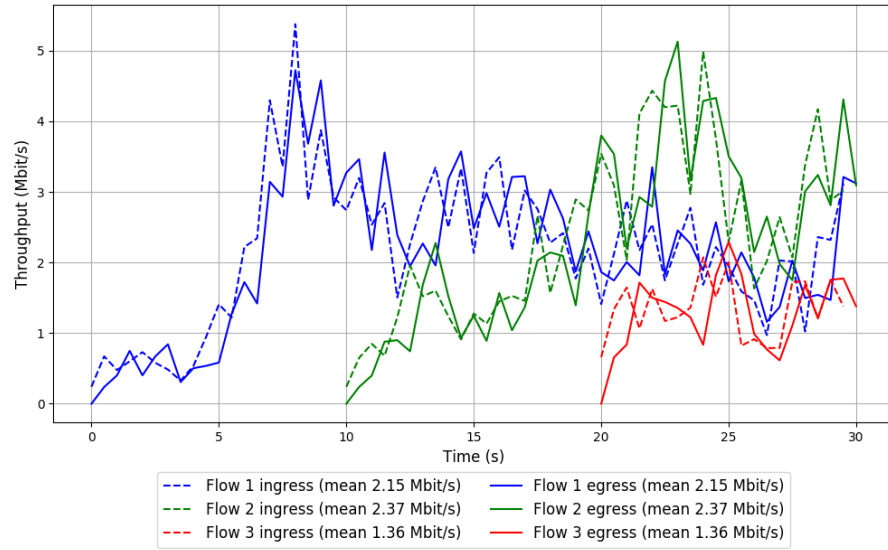


Run 4: Statistics of Sprout

Start at: 2018-12-20 03:04:19
End at: 2018-12-20 03:04:49
Local clock offset: -7.392 ms
Remote clock offset: -1.793 ms

```
# Below is generated by plot.py at 2018-12-20 03:42:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 85.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 84.892 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 85.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 82.965 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

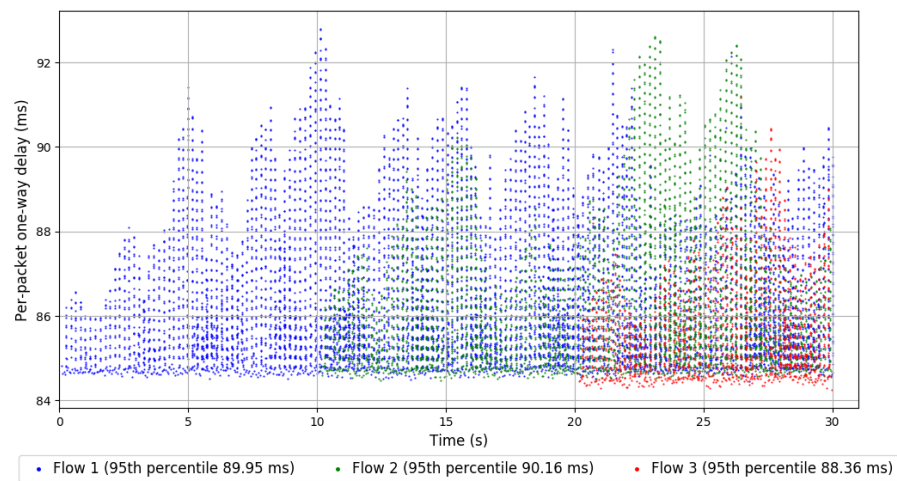
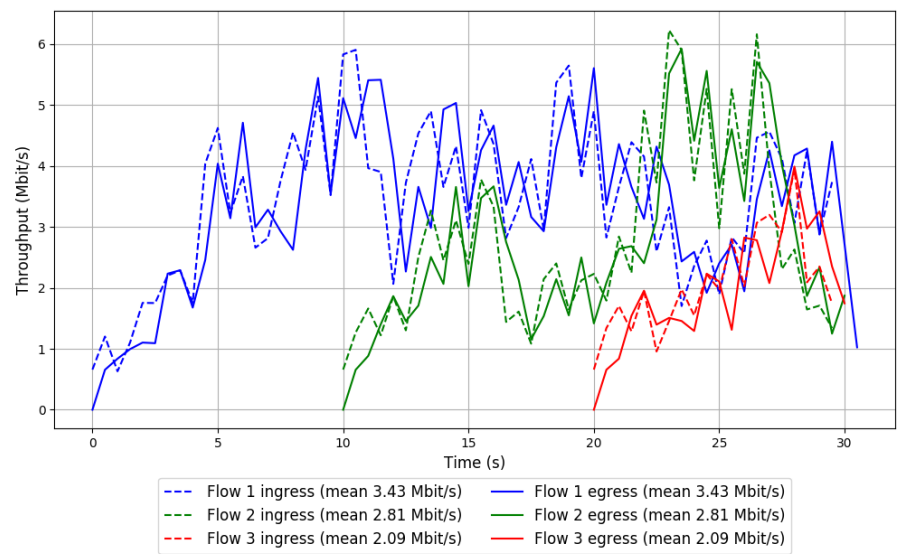


Run 5: Statistics of Sprout

Start at: 2018-12-20 03:28:21
End at: 2018-12-20 03:28:51
Local clock offset: -6.964 ms
Remote clock offset: -0.023 ms

```
# Below is generated by plot.py at 2018-12-20 03:42:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 89.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 89.950 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 90.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 88.358 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-12-20 01:42:01

End at: 2018-12-20 01:42:31

Local clock offset: -0.798 ms

Remote clock offset: 6.592 ms

Below is generated by plot.py at 2018-12-20 03:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 81.403 ms

Loss rate: 87.32%

-- Flow 1:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 88.667 ms

Loss rate: 38.88%

-- Flow 2:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 80.476 ms

Loss rate: 88.65%

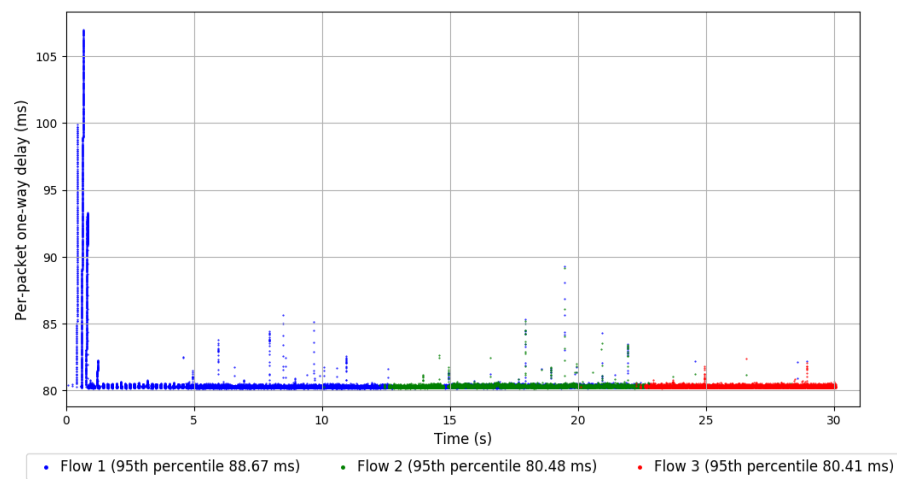
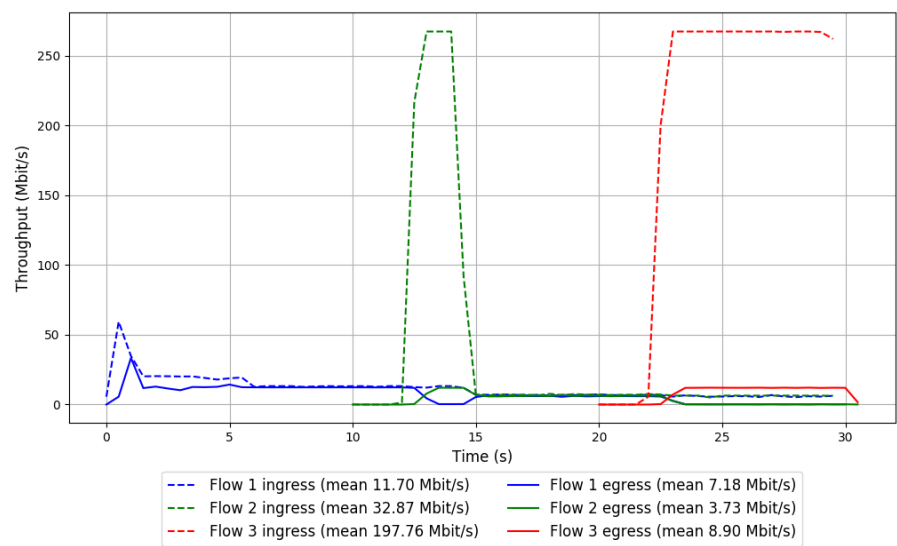
-- Flow 3:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 80.412 ms

Loss rate: 95.50%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-12-20 02:06:04

End at: 2018-12-20 02:06:34

Local clock offset: -1.229 ms

Remote clock offset: 9.344 ms

Below is generated by plot.py at 2018-12-20 03:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 86.878 ms

Loss rate: 40.45%

-- Flow 1:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 91.491 ms

Loss rate: 34.97%

-- Flow 2:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 85.365 ms

Loss rate: 25.79%

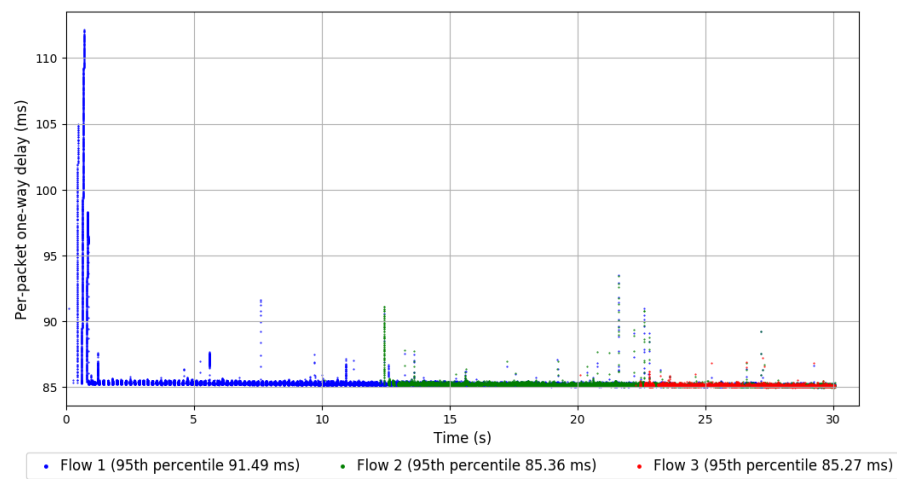
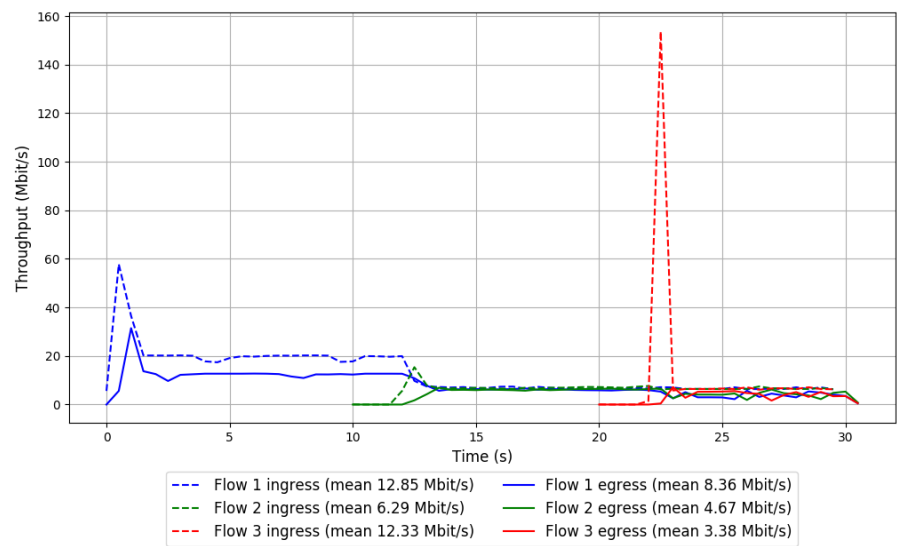
-- Flow 3:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 85.274 ms

Loss rate: 72.61%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-12-20 02:30:06

End at: 2018-12-20 02:30:36

Local clock offset: -7.281 ms

Remote clock offset: 0.553 ms

Below is generated by plot.py at 2018-12-20 03:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 79.998 ms

Loss rate: 47.20%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 86.486 ms

Loss rate: 22.18%

-- Flow 2:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 79.380 ms

Loss rate: 68.02%

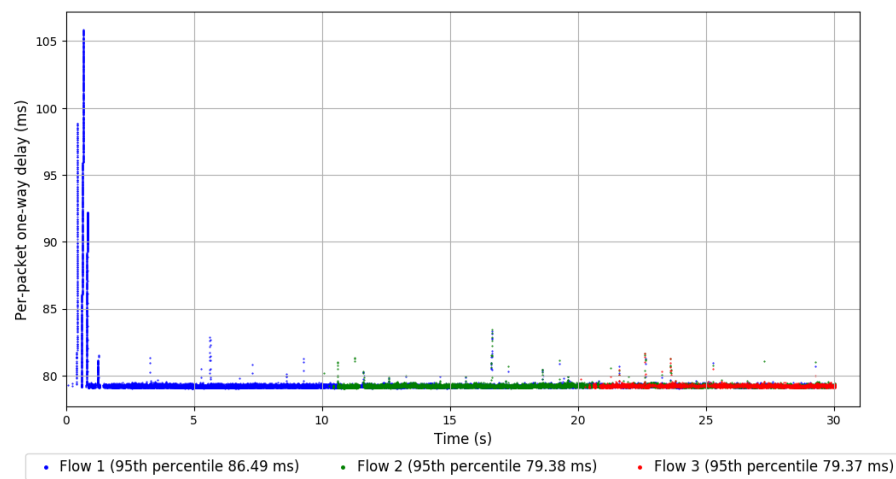
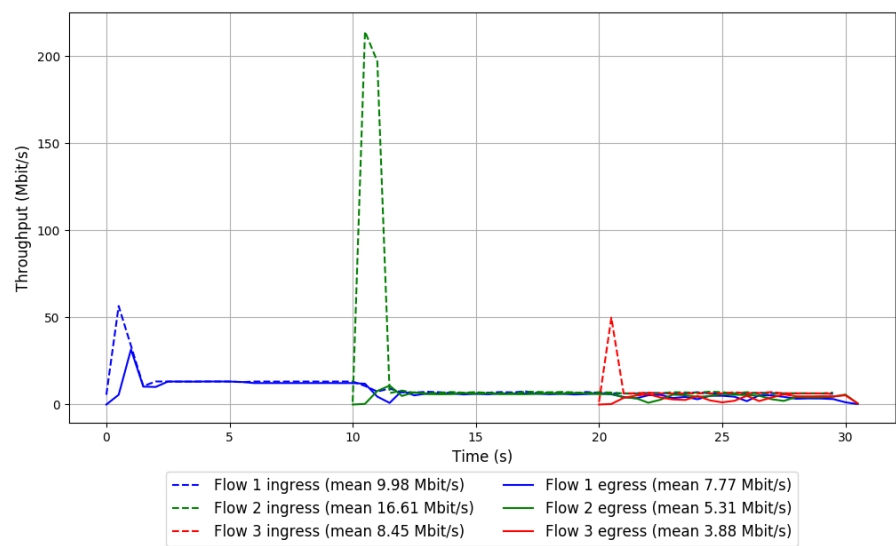
-- Flow 3:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 79.368 ms

Loss rate: 54.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-12-20 02:54:10

End at: 2018-12-20 02:54:40

Local clock offset: -7.134 ms

Remote clock offset: 3.065 ms

Below is generated by plot.py at 2018-12-20 03:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 84.986 ms

Loss rate: 29.90%

-- Flow 1:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 90.780 ms

Loss rate: 32.73%

-- Flow 2:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 84.318 ms

Loss rate: 19.87%

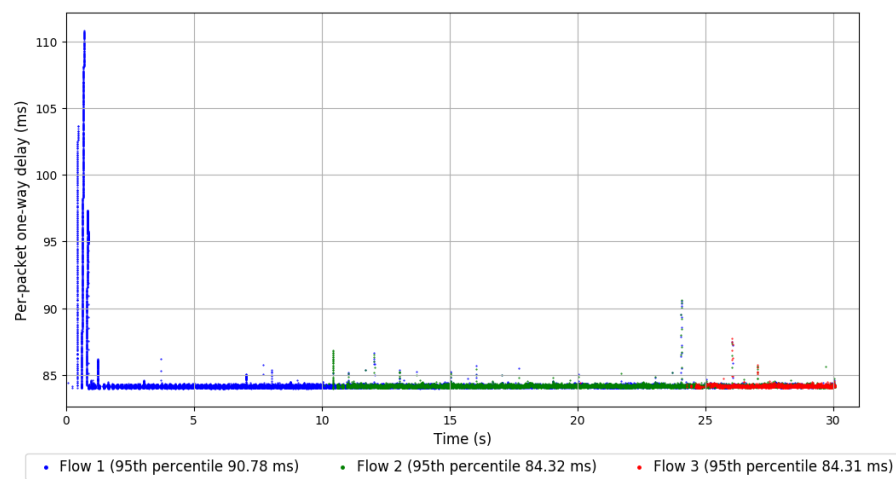
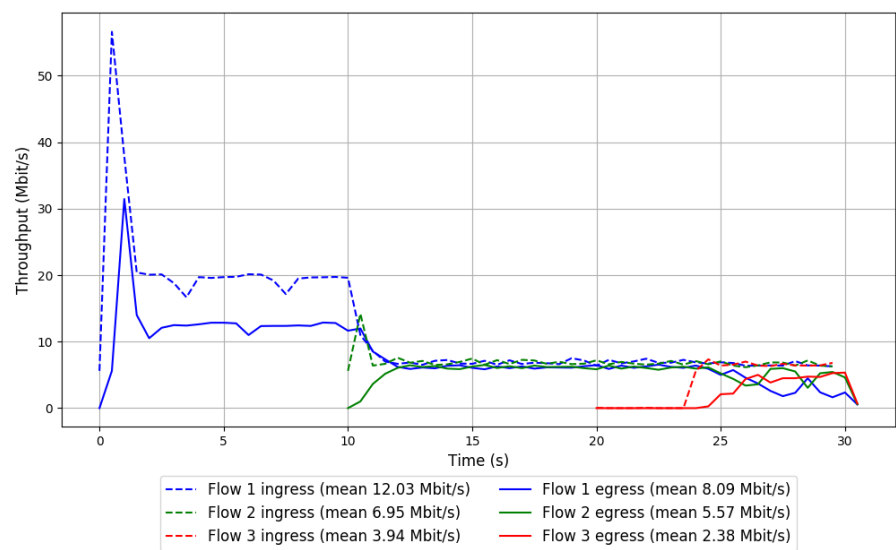
-- Flow 3:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 84.314 ms

Loss rate: 39.42%

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

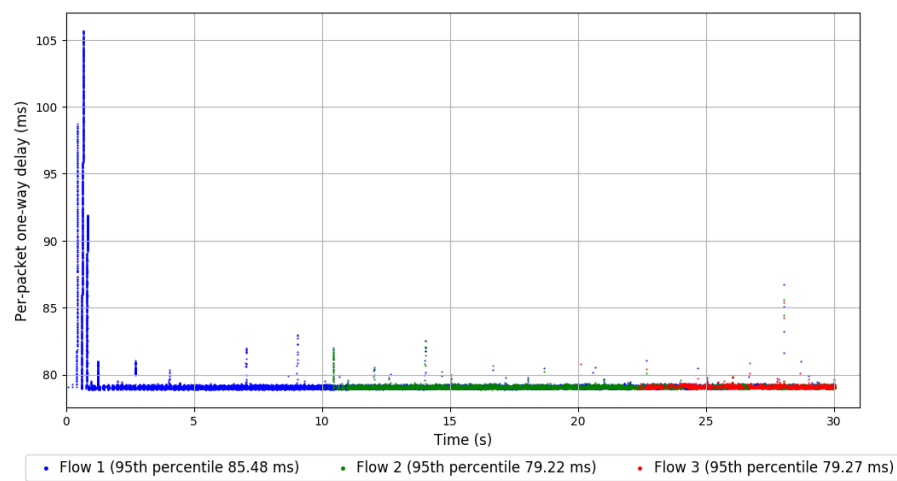
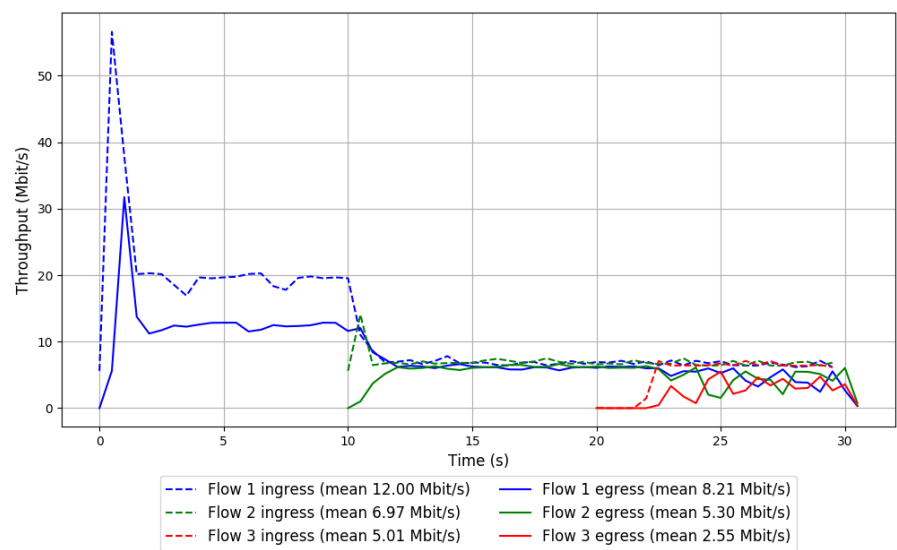


Run 5: Statistics of TaoVA-100x

Start at: 2018-12-20 03:18:13
End at: 2018-12-20 03:18:43
Local clock offset: -6.965 ms
Remote clock offset: -4.554 ms

Below is generated by plot.py at 2018-12-20 03:42:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 80.089 ms
Loss rate: 31.23%
-- Flow 1:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 85.485 ms
Loss rate: 31.55%
-- Flow 2:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 79.222 ms
Loss rate: 23.97%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 79.265 ms
Loss rate: 49.16%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-12-20 01:57:15

End at: 2018-12-20 01:57:45

Local clock offset: -0.944 ms

Remote clock offset: 4.914 ms

Below is generated by plot.py at 2018-12-20 03:42:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 88.418 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 53.44 Mbit/s

95th percentile per-packet one-way delay: 88.166 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 100.865 ms

Loss rate: 0.70%

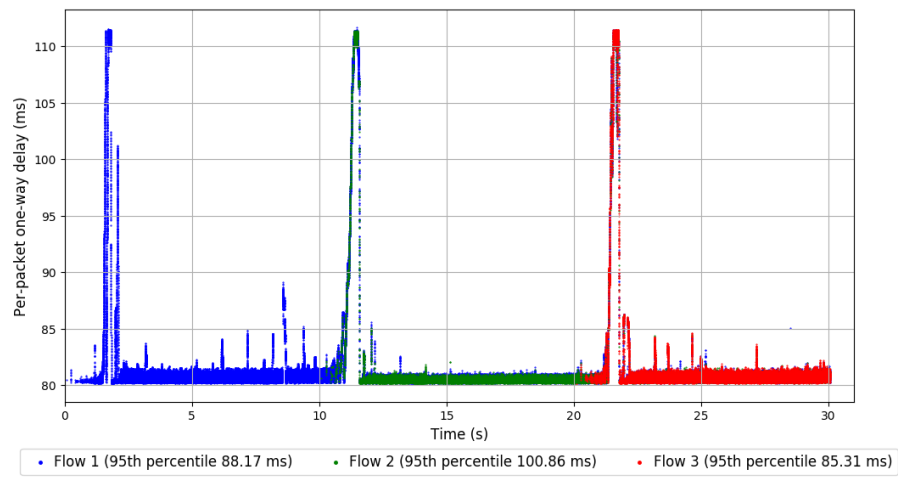
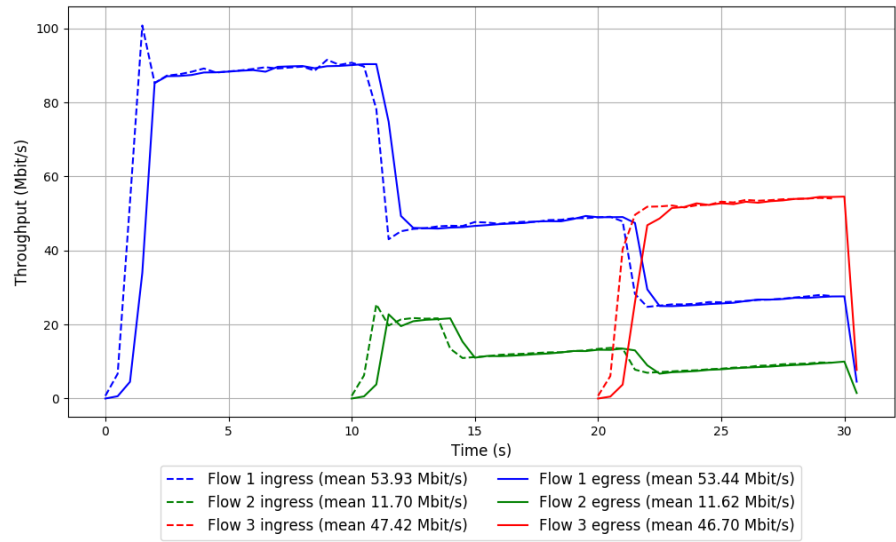
-- Flow 3:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 85.309 ms

Loss rate: 1.51%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-12-20 02:21:17

End at: 2018-12-20 02:21:47

Local clock offset: -6.308 ms

Remote clock offset: 6.437 ms

Below is generated by plot.py at 2018-12-20 03:42:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.75 Mbit/s

95th percentile per-packet one-way delay: 102.548 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 106.522 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 43.14 Mbit/s

95th percentile per-packet one-way delay: 99.309 ms

Loss rate: 0.99%

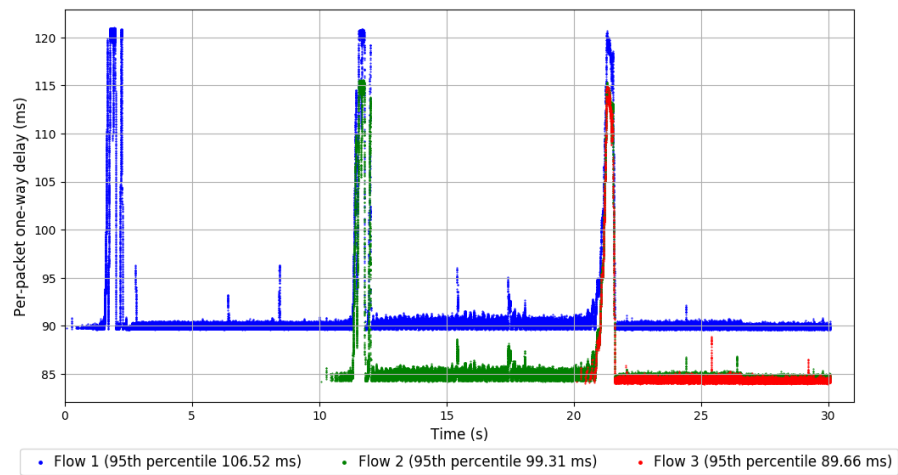
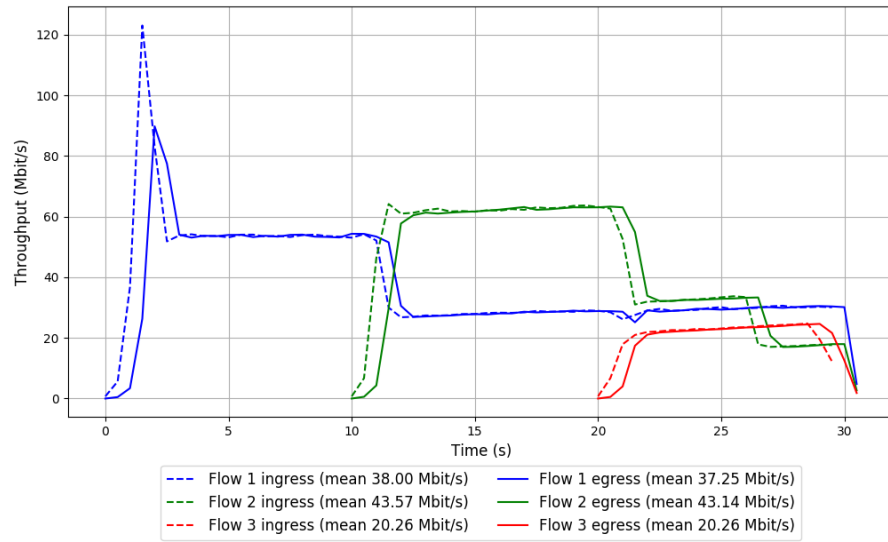
-- Flow 3:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 89.655 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

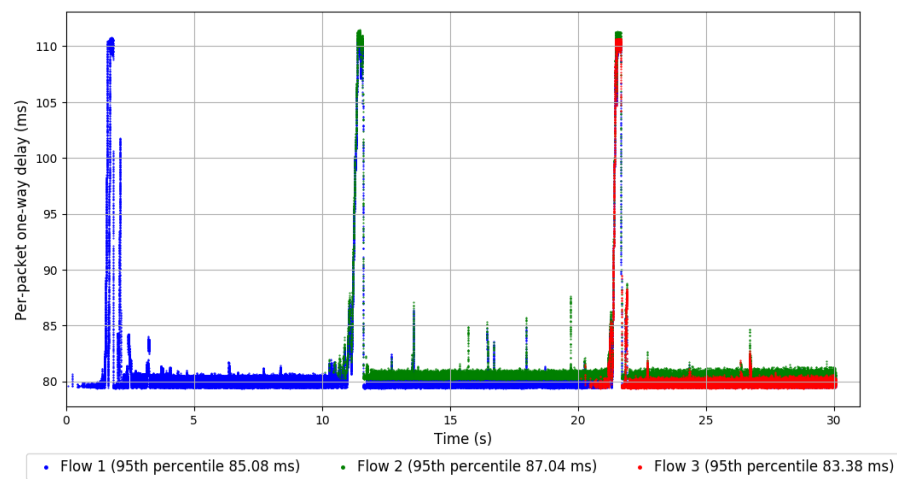
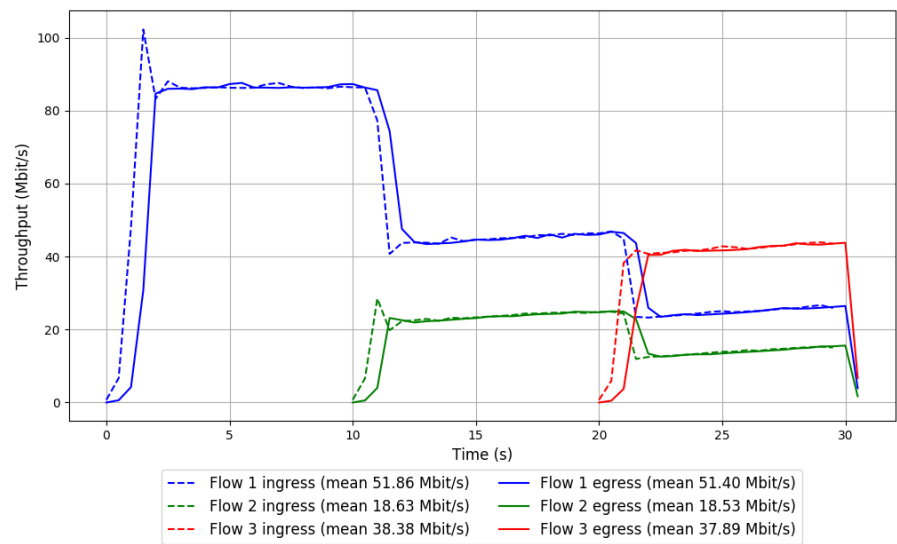


Run 3: Statistics of TCP Vegas

Start at: 2018-12-20 02:45:21
End at: 2018-12-20 02:45:51
Local clock offset: -7.126 ms
Remote clock offset: -0.919 ms

Below is generated by plot.py at 2018-12-20 03:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 85.138 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 51.40 Mbit/s
95th percentile per-packet one-way delay: 85.080 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 18.53 Mbit/s
95th percentile per-packet one-way delay: 87.036 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 37.89 Mbit/s
95th percentile per-packet one-way delay: 83.383 ms
Loss rate: 1.28%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-12-20 03:09:23

End at: 2018-12-20 03:09:53

Local clock offset: -7.134 ms

Remote clock offset: 1.737 ms

Below is generated by plot.py at 2018-12-20 03:43:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 91.616 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 52.72 Mbit/s

95th percentile per-packet one-way delay: 91.971 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 18.08 Mbit/s

95th percentile per-packet one-way delay: 92.856 ms

Loss rate: 0.54%

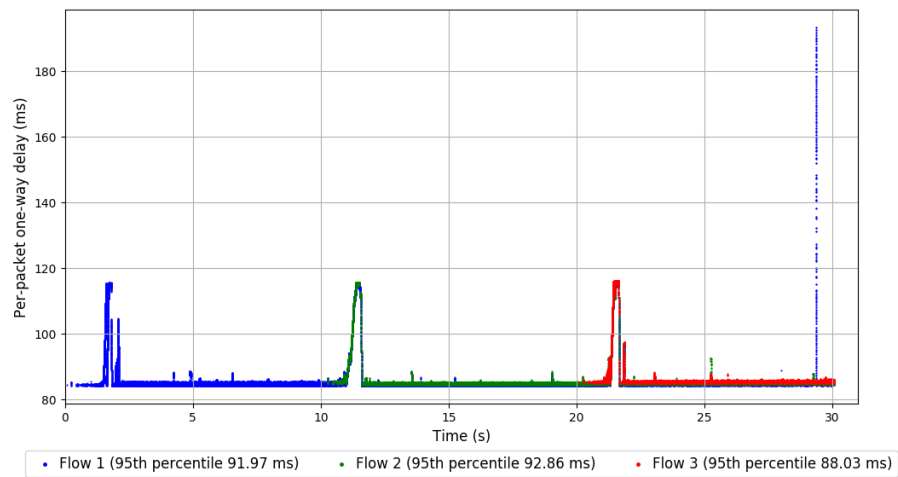
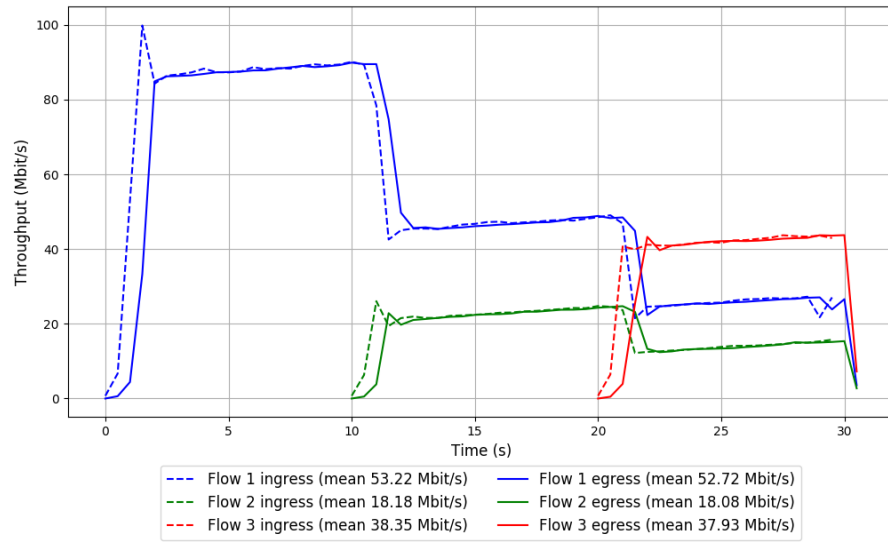
-- Flow 3:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 88.031 ms

Loss rate: 1.09%

Run 4: Report of TCP Vegas — Data Link

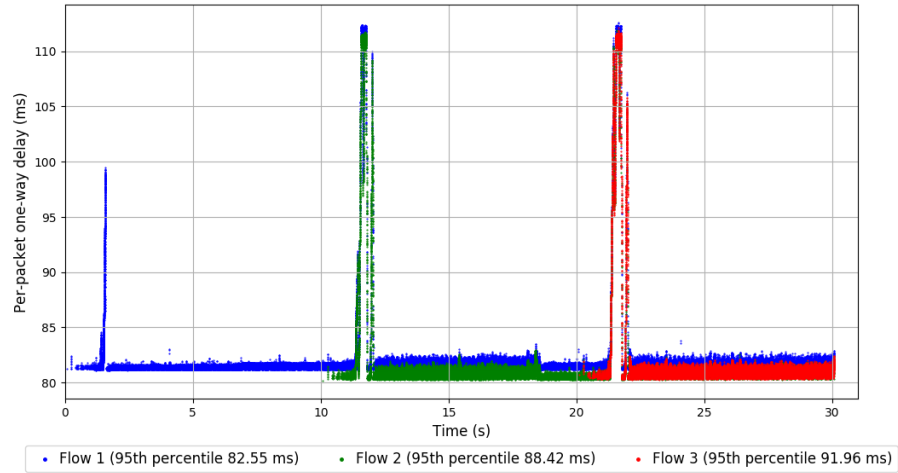
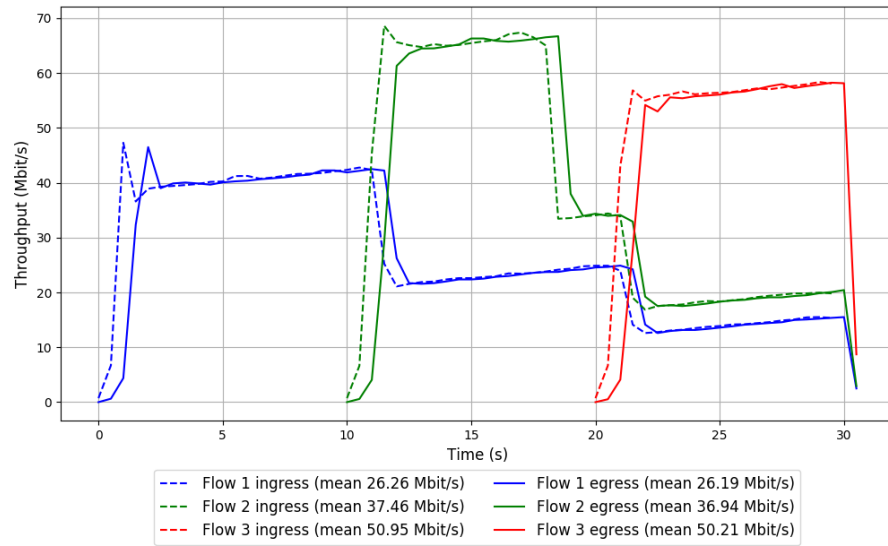


Run 5: Statistics of TCP Vegas

Start at: 2018-12-20 03:33:25
End at: 2018-12-20 03:33:55
Local clock offset: -7.031 ms
Remote clock offset: -4.657 ms

Below is generated by plot.py at 2018-12-20 03:43:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.51 Mbit/s
95th percentile per-packet one-way delay: 84.667 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 26.19 Mbit/s
95th percentile per-packet one-way delay: 82.548 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 88.417 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 91.961 ms
Loss rate: 1.45%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-12-20 01:49:37

End at: 2018-12-20 01:50:07

Local clock offset: -0.98 ms

Remote clock offset: 9.867 ms

Below is generated by plot.py at 2018-12-20 03:43:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 143.745 ms

Loss rate: 54.60%

-- Flow 1:

Average throughput: 26.25 Mbit/s

95th percentile per-packet one-way delay: 158.262 ms

Loss rate: 62.00%

-- Flow 2:

Average throughput: 14.37 Mbit/s

95th percentile per-packet one-way delay: 115.028 ms

Loss rate: 35.09%

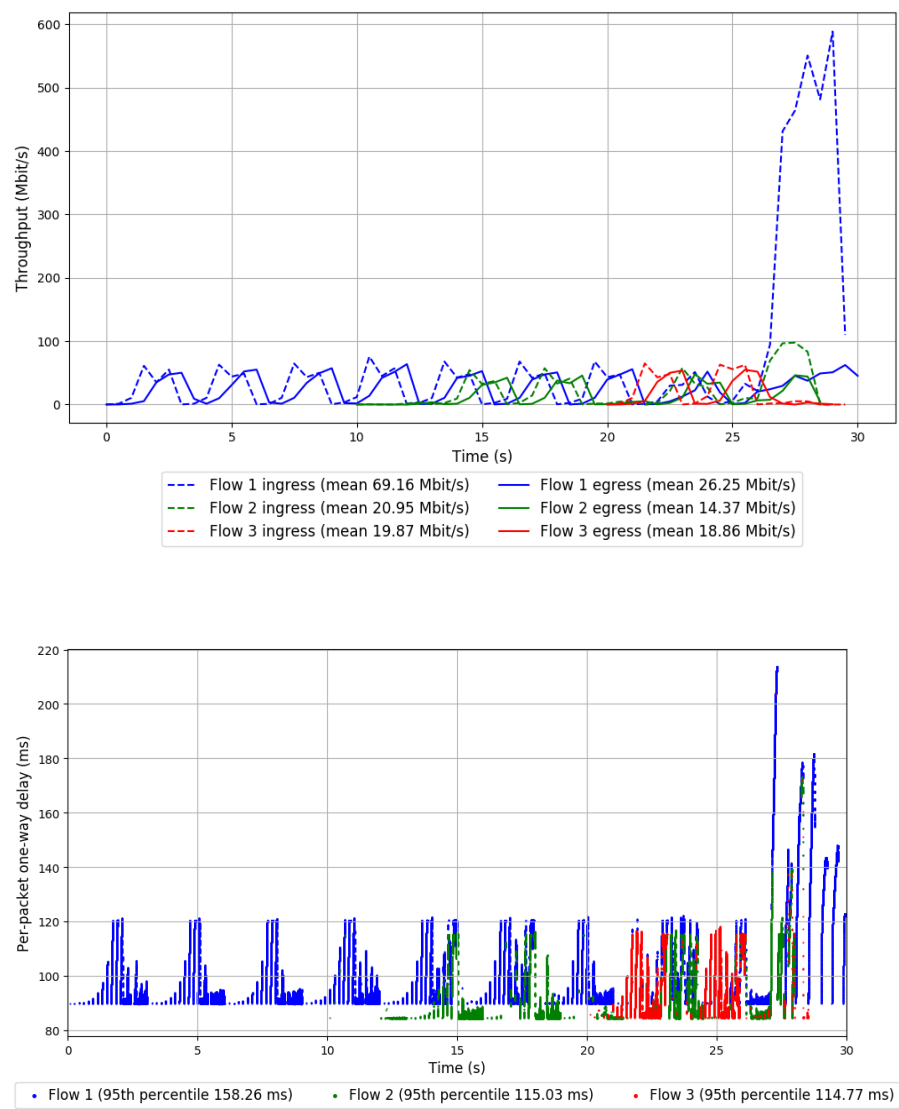
-- Flow 3:

Average throughput: 18.86 Mbit/s

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

Loss rate: 15.97%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-20 02:13:39

End at: 2018-12-20 02:14:09

Local clock offset: -4.647 ms

Remote clock offset: 7.196 ms

Below is generated by plot.py at 2018-12-20 03:43:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 158.189 ms

Loss rate: 69.92%

-- Flow 1:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 161.280 ms

Loss rate: 76.18%

-- Flow 2:

Average throughput: 11.43 Mbit/s

95th percentile per-packet one-way delay: 119.899 ms

Loss rate: 28.69%

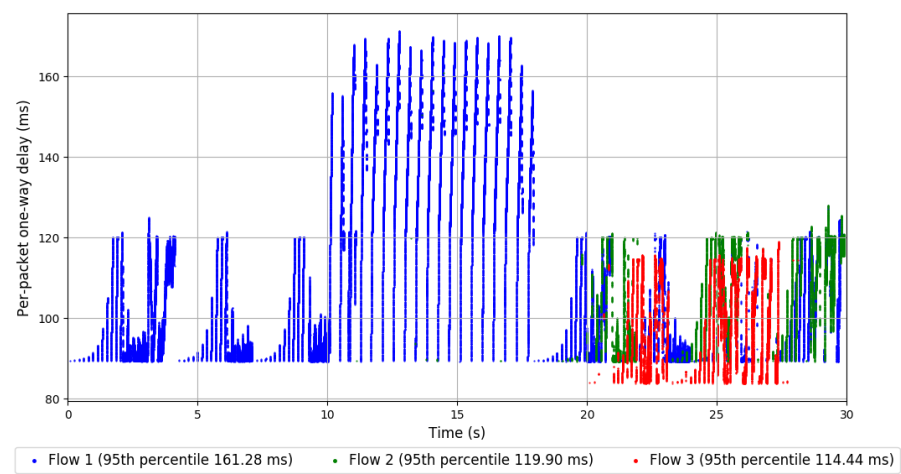
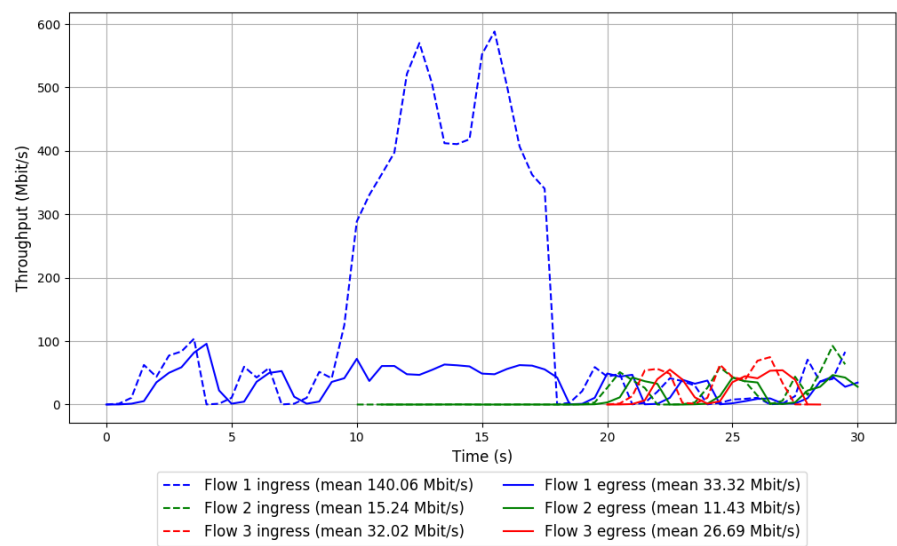
-- Flow 3:

Average throughput: 26.69 Mbit/s

95th percentile per-packet one-way delay: 114.438 ms

Loss rate: 16.33%

Run 2: Report of Verus — Data Link

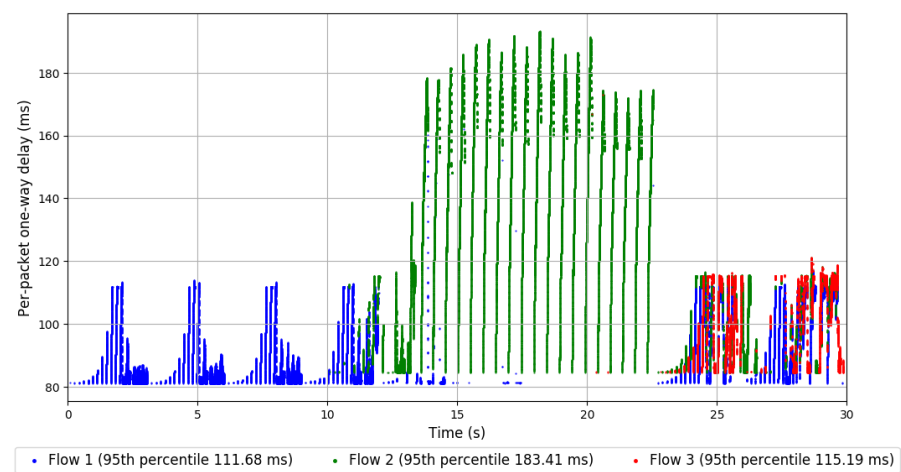
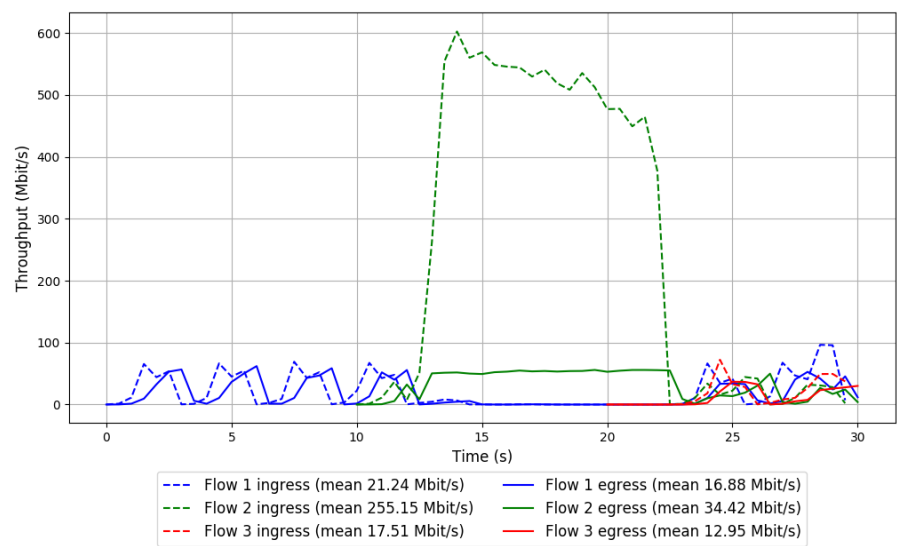


Run 3: Statistics of Verus

Start at: 2018-12-20 02:37:41
End at: 2018-12-20 02:38:11
Local clock offset: -7.533 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-12-20 03:43:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 177.755 ms
Loss rate: 77.52%
-- Flow 1:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 111.676 ms
Loss rate: 20.52%
-- Flow 2:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 183.412 ms
Loss rate: 86.50%
-- Flow 3:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 115.186 ms
Loss rate: 26.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-12-20 03:01:45

End at: 2018-12-20 03:02:15

Local clock offset: -7.3 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-12-20 03:43:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 136.376 ms

Loss rate: 53.49%

-- Flow 1:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 120.883 ms

Loss rate: 37.06%

-- Flow 2:

Average throughput: 14.37 Mbit/s

95th percentile per-packet one-way delay: 115.443 ms

Loss rate: 22.11%

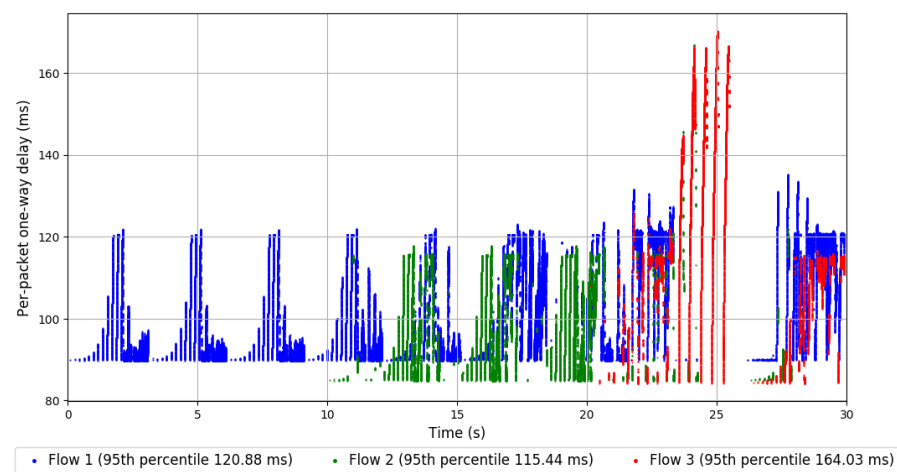
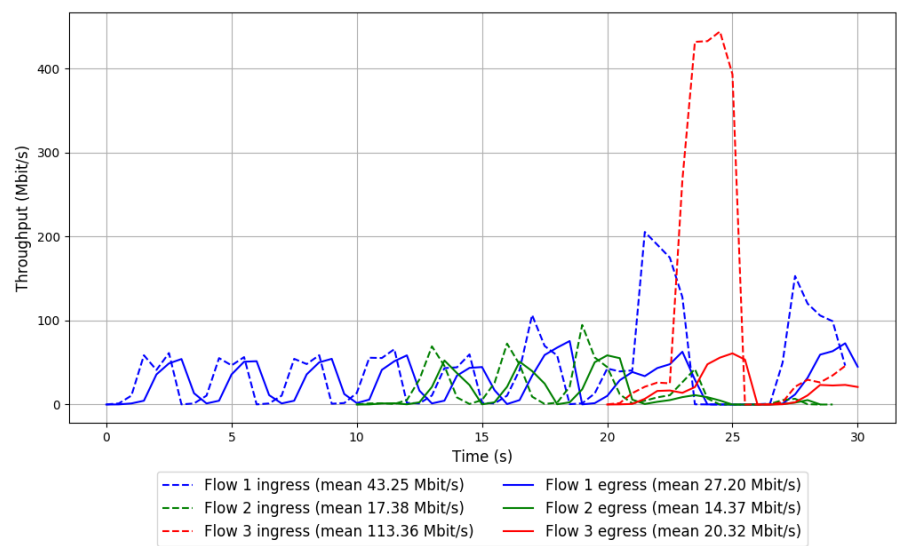
-- Flow 3:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 164.029 ms

Loss rate: 82.06%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-12-20 03:25:48

End at: 2018-12-20 03:26:18

Local clock offset: -6.94 ms

Remote clock offset: -3.98 ms

Below is generated by plot.py at 2018-12-20 03:43:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.31 Mbit/s

95th percentile per-packet one-way delay: 110.889 ms

Loss rate: 19.94%

-- Flow 1:

Average throughput: 25.75 Mbit/s

95th percentile per-packet one-way delay: 110.753 ms

Loss rate: 20.48%

-- Flow 2:

Average throughput: 21.55 Mbit/s

95th percentile per-packet one-way delay: 111.073 ms

Loss rate: 22.02%

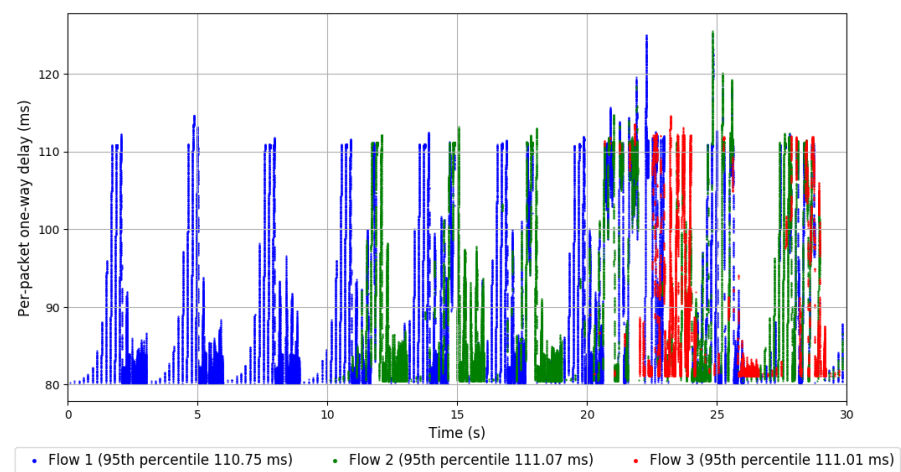
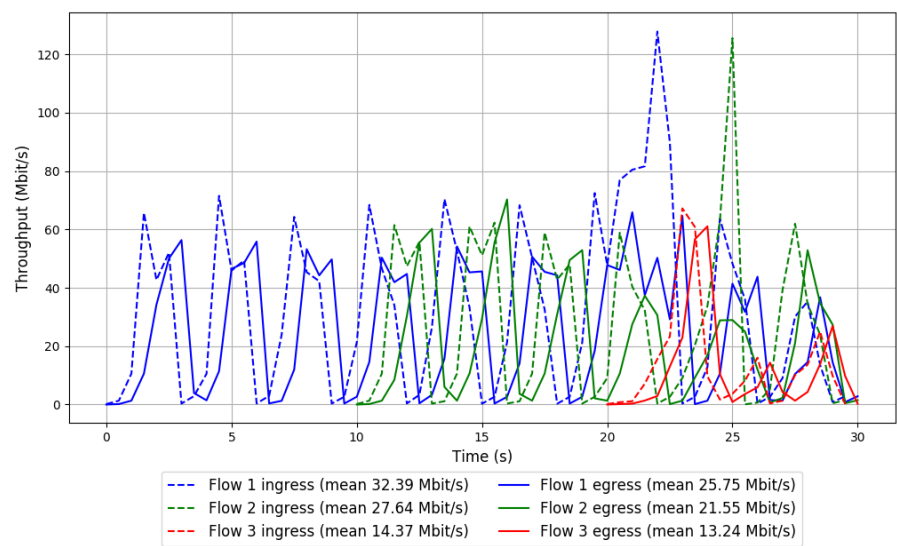
-- Flow 3:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 111.014 ms

Loss rate: 7.89%

Run 5: Report of Verus — Data Link

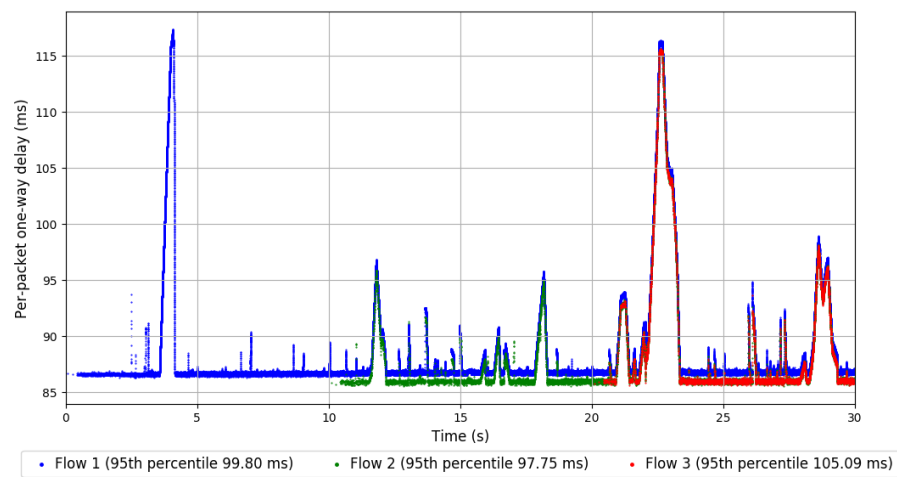
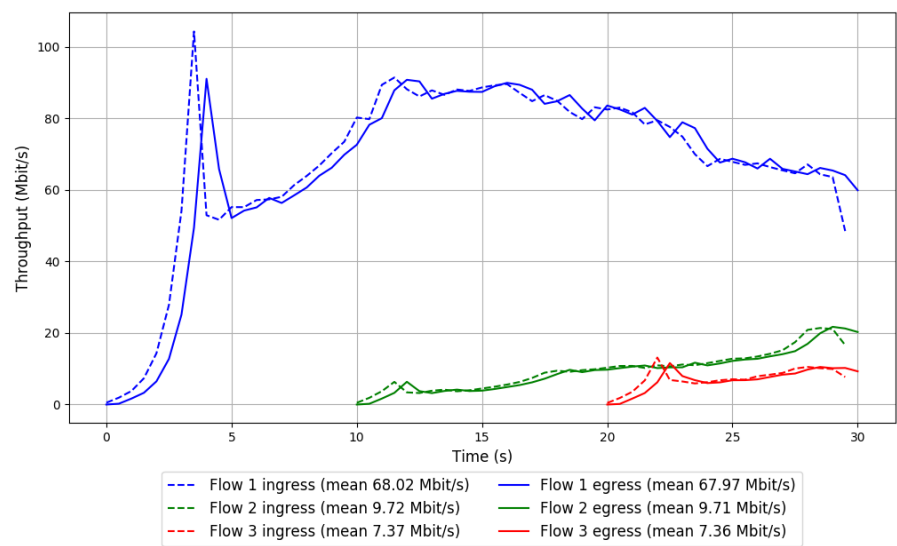


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-20 01:34:29
End at: 2018-12-20 01:34:59
Local clock offset: -0.182 ms
Remote clock offset: 12.842 ms

Below is generated by plot.py at 2018-12-20 03:43:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 100.160 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 67.97 Mbit/s
95th percentile per-packet one-way delay: 99.798 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 9.71 Mbit/s
95th percentile per-packet one-way delay: 97.749 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 105.087 ms
Loss rate: 0.19%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-12-20 01:58:32

End at: 2018-12-20 01:59:02

Local clock offset: -0.91 ms

Remote clock offset: 4.806 ms

Below is generated by plot.py at 2018-12-20 03:43:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.34 Mbit/s

95th percentile per-packet one-way delay: 106.462 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 64.73 Mbit/s

95th percentile per-packet one-way delay: 105.613 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 105.998 ms

Loss rate: 0.26%

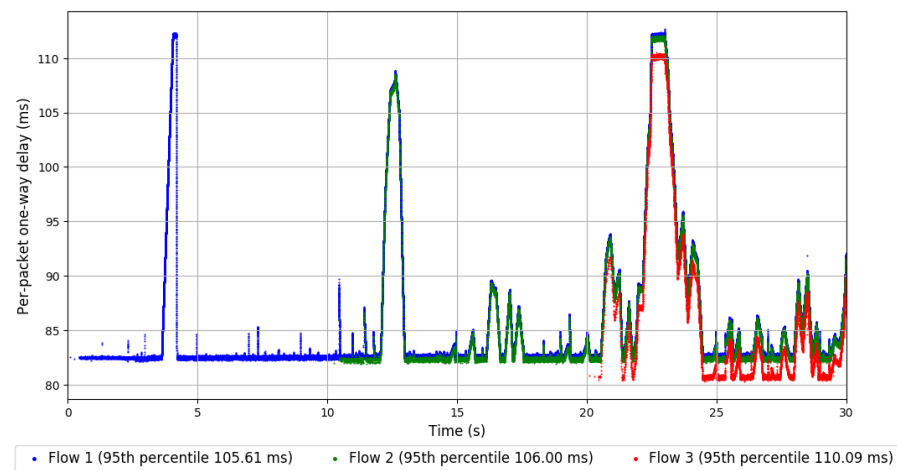
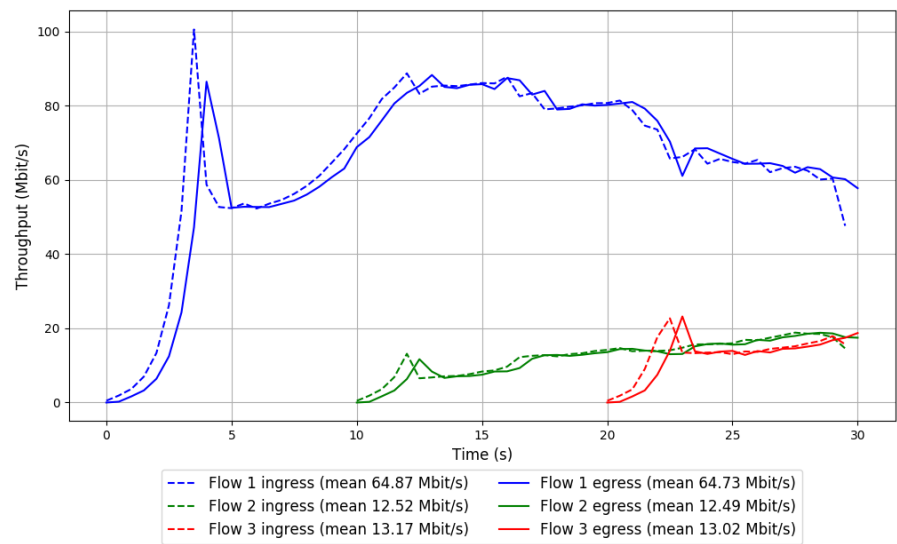
-- Flow 3:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 110.094 ms

Loss rate: 1.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-12-20 02:22:34

End at: 2018-12-20 02:23:04

Local clock offset: -6.485 ms

Remote clock offset: 5.246 ms

Below is generated by plot.py at 2018-12-20 03:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.51 Mbit/s

95th percentile per-packet one-way delay: 112.787 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 63.75 Mbit/s

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

Loss rate: 0.43%

-- Flow 2:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 112.500 ms

Loss rate: 0.76%

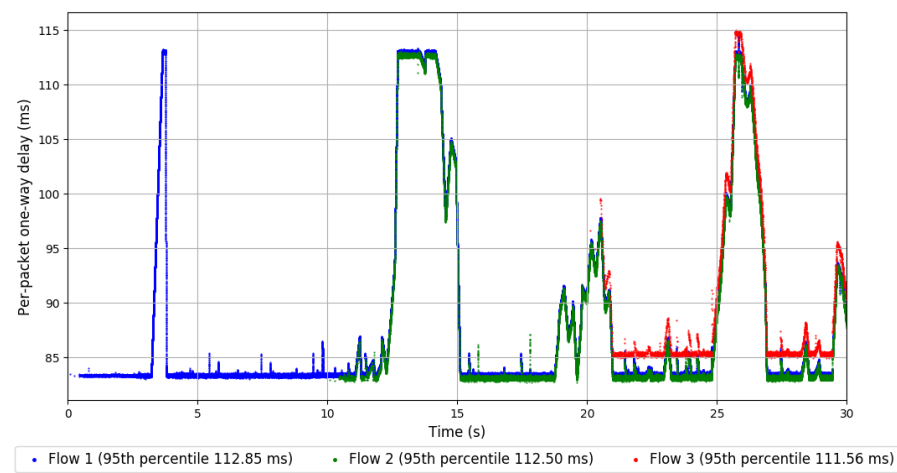
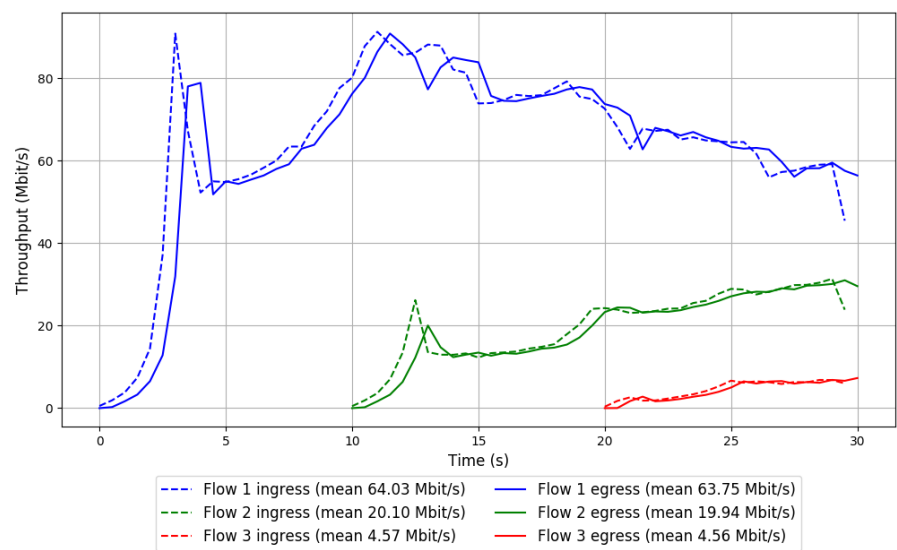
-- Flow 3:

Average throughput: 4.56 Mbit/s

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

Loss rate: 0.18%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-12-20 02:46:38

End at: 2018-12-20 02:47:08

Local clock offset: -7.181 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-12-20 03:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 108.586 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 109.730 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 99.294 ms

Loss rate: 0.43%

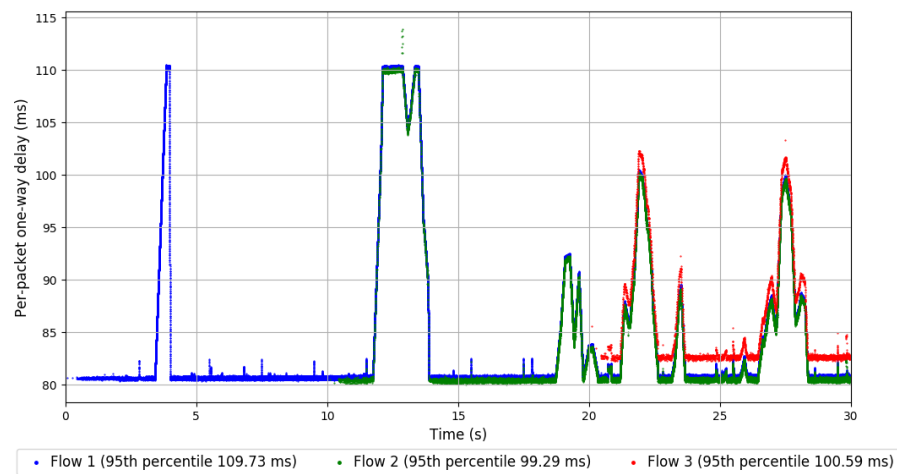
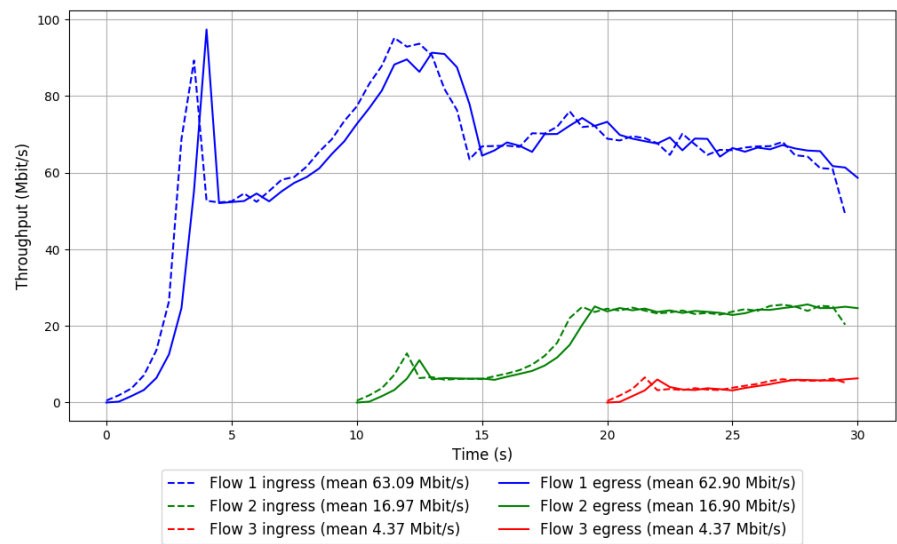
-- Flow 3:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 100.594 ms

Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link

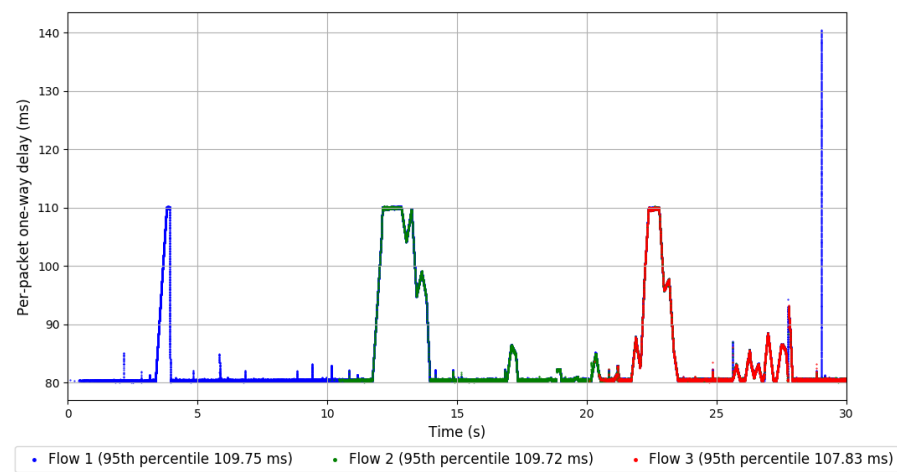
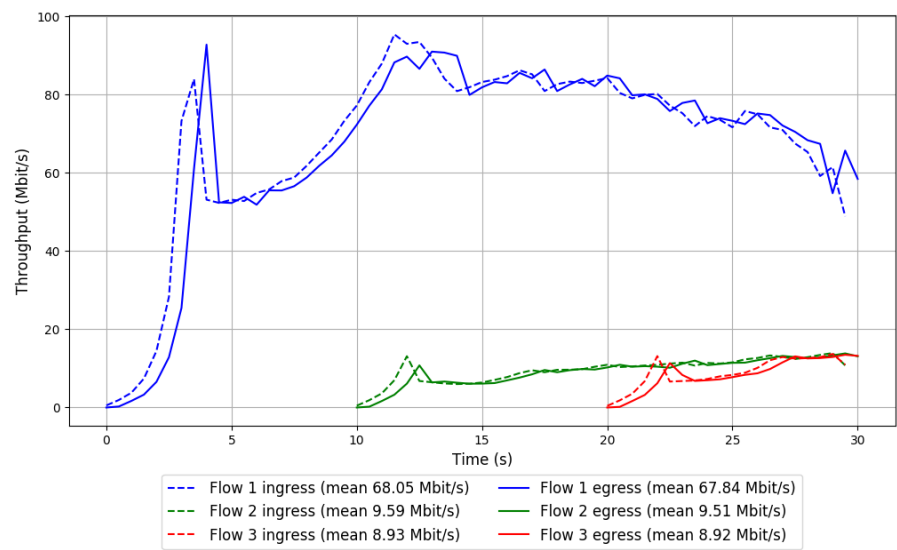


Run 5: Statistics of PCC-Vivace

Start at: 2018-12-20 03:10:40
End at: 2018-12-20 03:11:10
Local clock offset: -7.068 ms
Remote clock offset: -2.418 ms

Below is generated by plot.py at 2018-12-20 03:43:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.11 Mbit/s
95th percentile per-packet one-way delay: 109.729 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 109.748 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 8.92 Mbit/s
95th percentile per-packet one-way delay: 107.829 ms
Loss rate: 0.13%

Run 5: Report of PCC-Vivace — Data Link

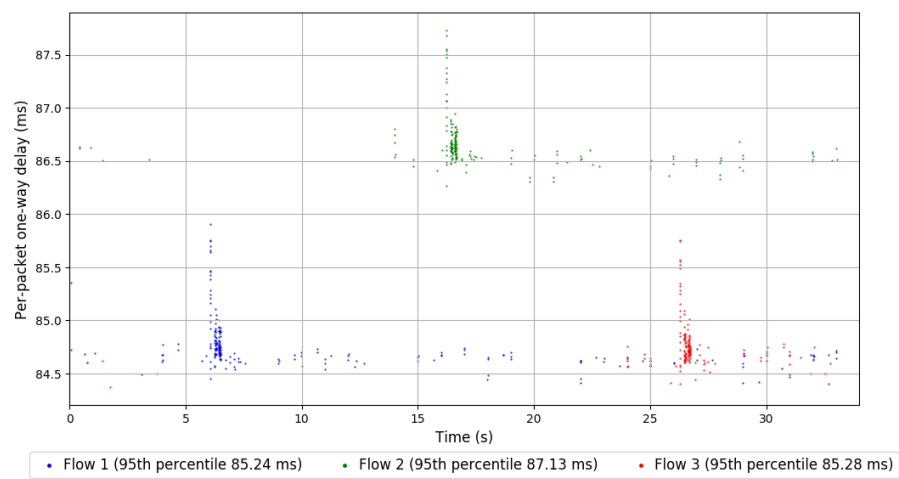
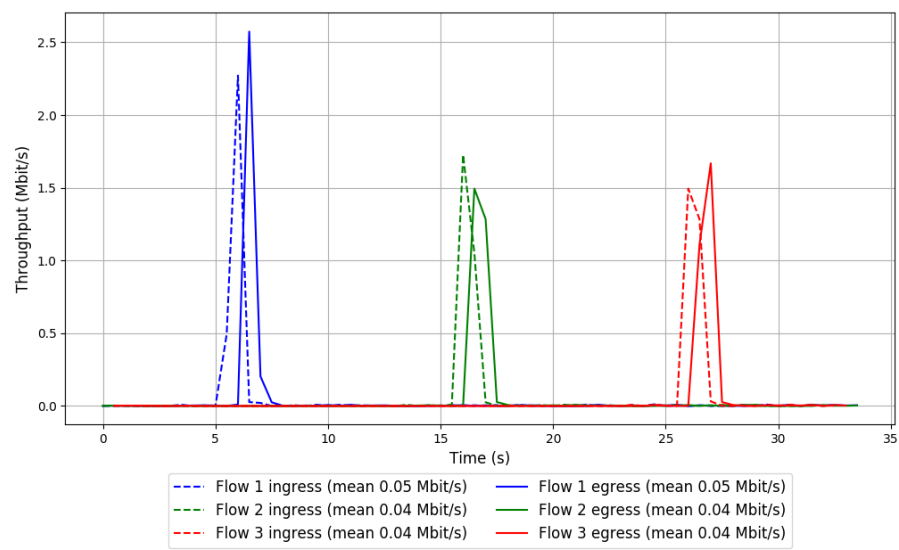


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-20 01:39:35
End at: 2018-12-20 01:40:05
Local clock offset: -0.625 ms
Remote clock offset: 11.047 ms

# Below is generated by plot.py at 2018-12-20 03:43:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 86.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 87.129 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.284 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-20 02:03:38

End at: 2018-12-20 02:04:08

Local clock offset: -0.797 ms

Remote clock offset: 3.167 ms

Below is generated by plot.py at 2018-12-20 03:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 79.913 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 79.637 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 79.873 ms

Loss rate: 0.00%

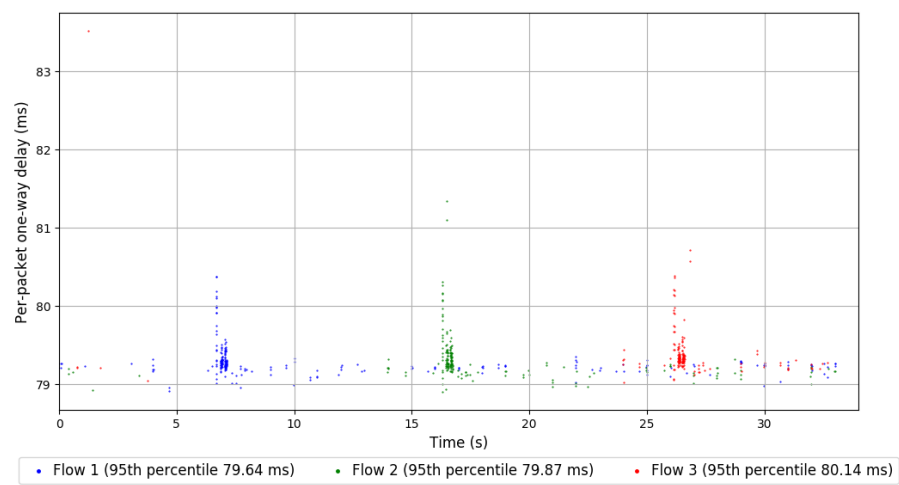
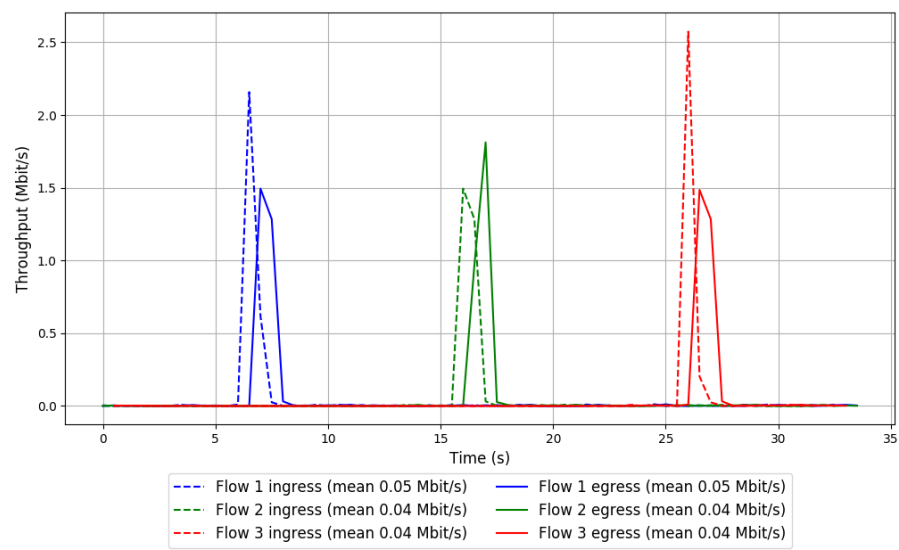
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 80.140 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-12-20 02:27:40

End at: 2018-12-20 02:28:10

Local clock offset: -7.089 ms

Remote clock offset: 1.834 ms

Below is generated by plot.py at 2018-12-20 03:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 81.298 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 80.976 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 81.052 ms

Loss rate: 0.00%

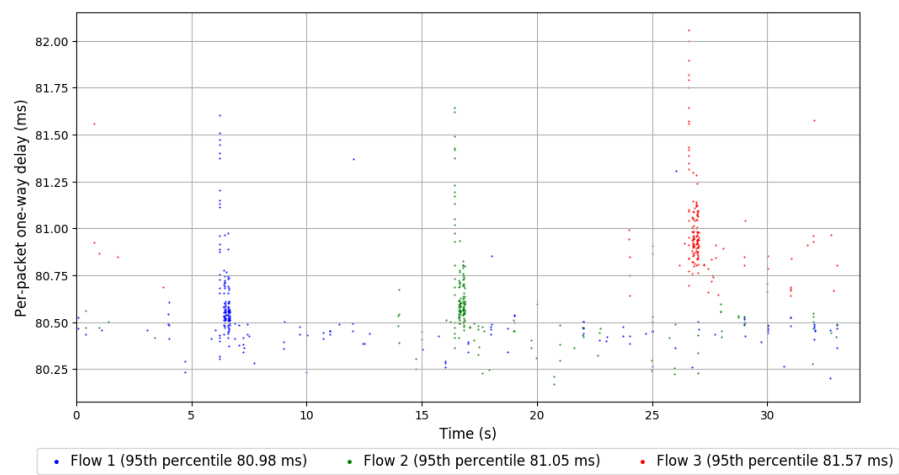
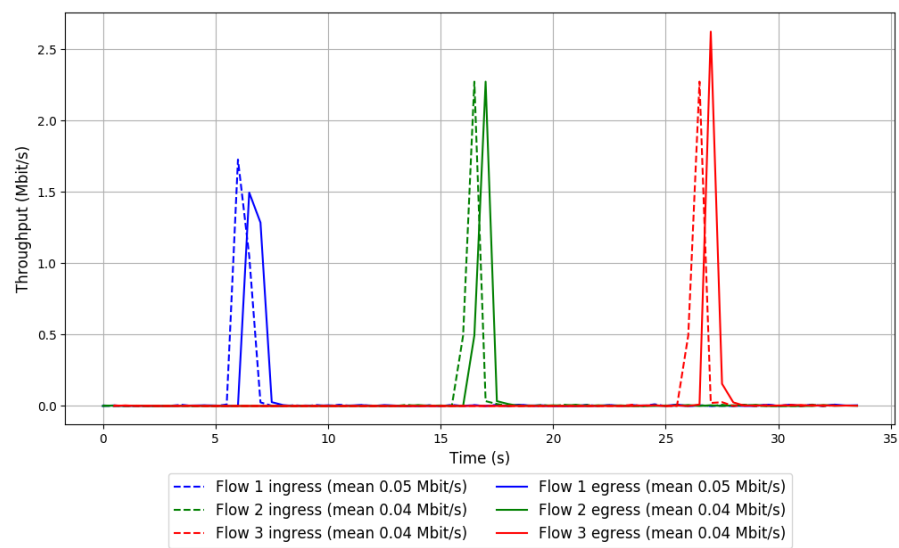
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 81.574 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-12-20 02:51:44

End at: 2018-12-20 02:52:14

Local clock offset: -7.199 ms

Remote clock offset: 3.766 ms

Below is generated by plot.py at 2018-12-20 03:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 85.415 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.413 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 85.489 ms

Loss rate: 0.00%

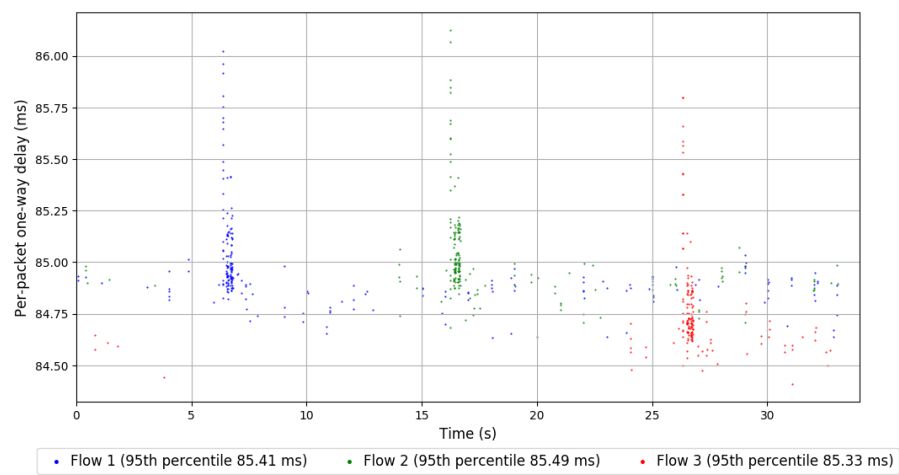
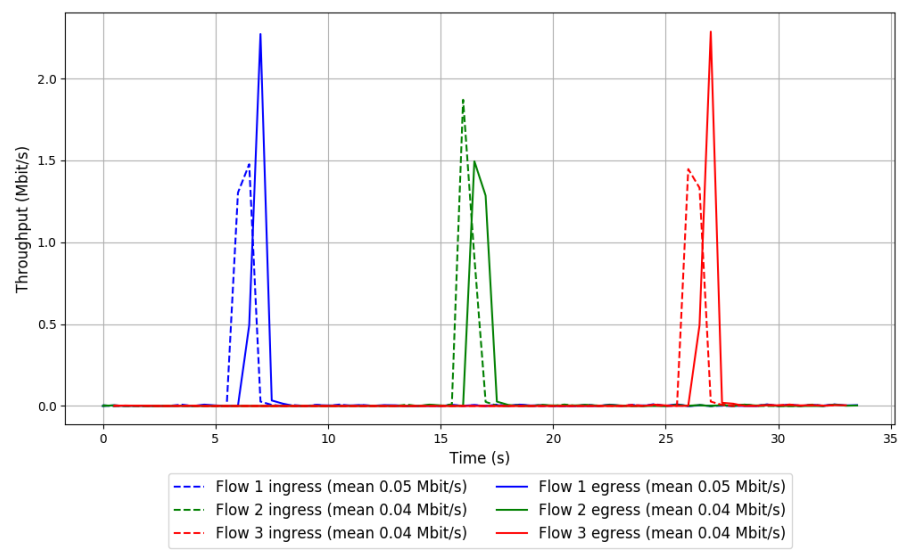
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 85.327 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-20 03:15:47
End at: 2018-12-20 03:16:17
Local clock offset: -6.989 ms
Remote clock offset: -2.963 ms

Below is generated by plot.py at 2018-12-20 03:43:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 81.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.002 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 81.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 81.121 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

