

Pantheon Report

Generated at 2018-12-02 07:55:23 (UTC).

Data path: AWS India 2 on `ens5` (*local*) → Stanford on `eno1` (*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 `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

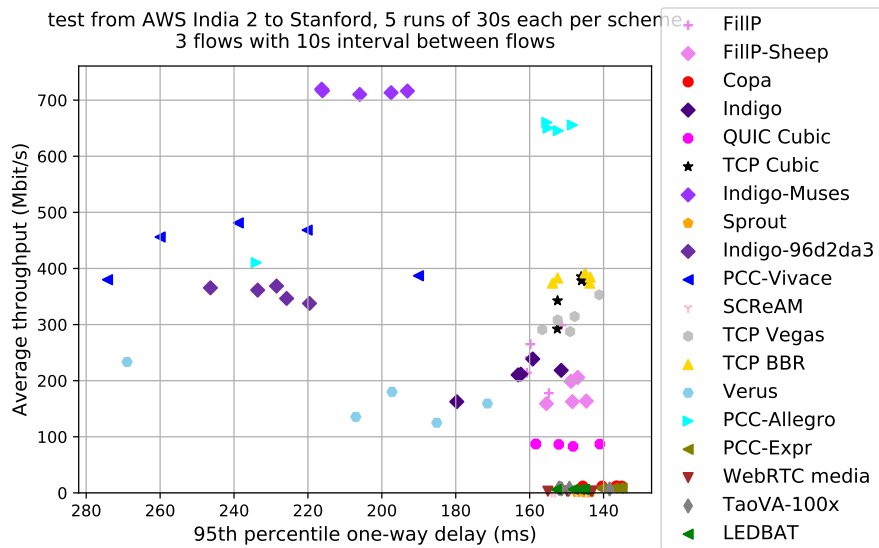
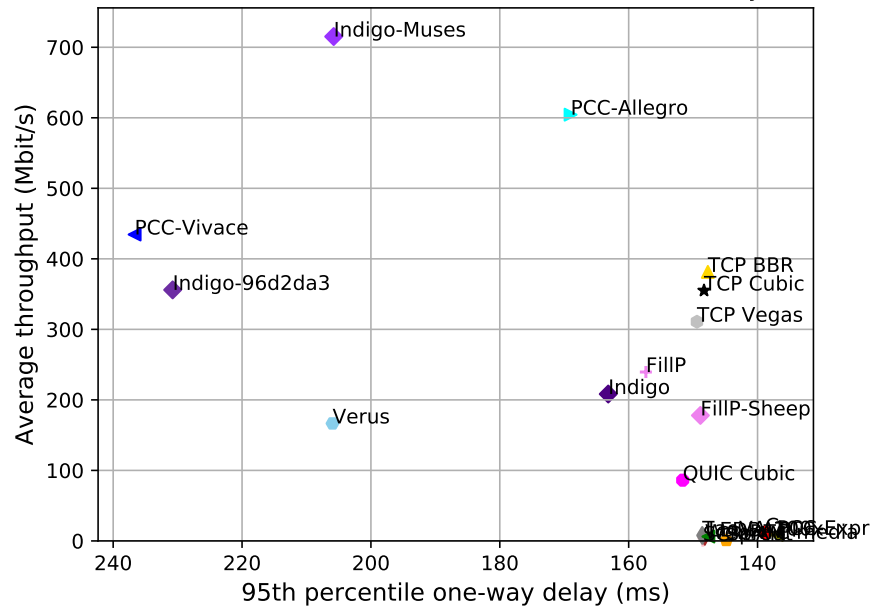
```
Linux 4.15.0-1027-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

test from AWS India 2 to Stanford, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



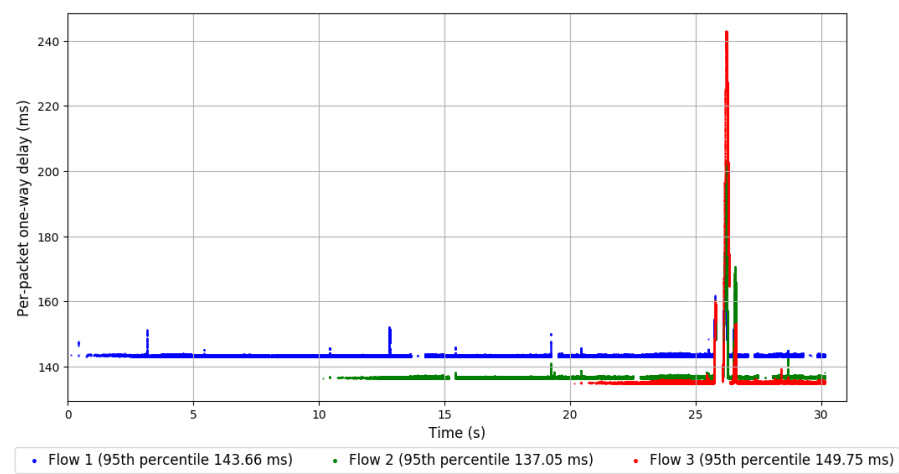
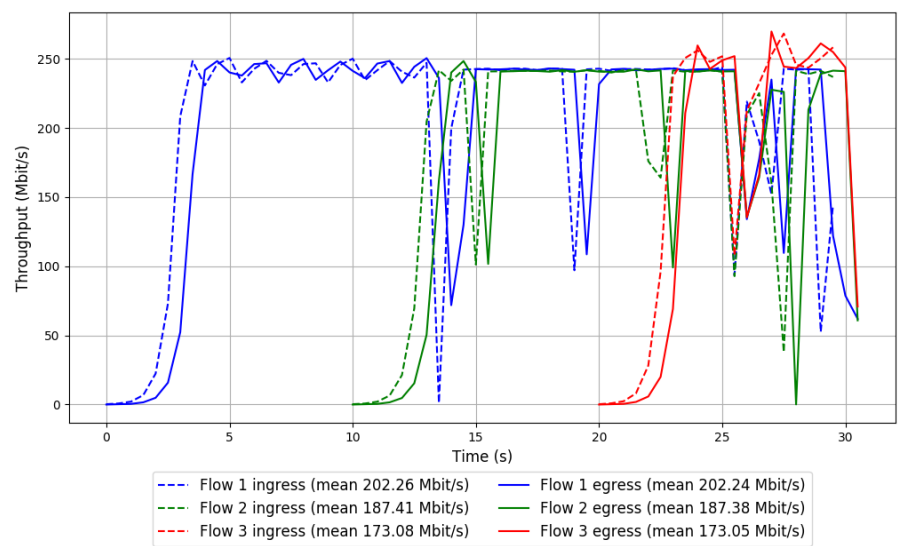
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	204.90	189.59	152.30	141.25	141.48	148.89	0.04	0.05	0.31
Copa	5	8.70	4.35	1.07	137.68	137.53	140.85	70.91	72.48	76.89
TCP Cubic	5	183.44	178.50	159.36	142.79	148.76	143.85	0.11	0.06	0.13
FillP	5	69.93	206.29	98.15	166.37	144.75	143.85	3.79	15.17	10.48
FillP-Sheep	5	43.03	170.20	65.54	167.67	142.63	145.92	3.55	13.87	6.71
Indigo	5	105.57	105.36	104.43	159.98	164.18	168.31	0.04	0.07	0.25
Indigo-96d2da3	5	199.30	173.53	132.38	224.10	242.94	208.44	17.85	22.47	24.07
LEDBAT	5	4.01	2.69	1.36	146.85	142.77	141.78	0.18	0.00	0.12
Indigo-Muses	5	424.78	349.17	185.78	214.79	174.54	213.91	14.32	23.22	39.99
PCC-Allegro	5	438.61	216.16	66.99	173.94	146.77	144.12	5.29	4.48	4.67
PCC-Expr	5	0.01	12.04	1.70	138.17	136.28	137.15	70.59	40.97	65.47
QUIC Cubic	5	52.68	38.83	24.27	144.01	151.37	148.68	0.03	0.07	0.08
SCReAM	5	0.21	0.22	0.22	144.29	144.79	145.19	0.00	0.00	0.00
Sprout	5	0.44	0.40	0.50	139.72	143.78	139.99	0.00	0.00	0.00
TaoVA-100x	5	0.01	8.47	6.57	153.17	149.02	146.80	92.16	24.37	42.61
TCP Vegas	5	163.53	148.25	146.14	145.48	147.92	147.95	0.03	0.05	0.09
Verus	5	92.91	72.16	82.07	213.36	172.40	184.92	15.45	10.29	10.89
PCC-Vivace	5	253.51	215.38	114.32	225.27	266.68	185.93	0.97	2.36	3.33
WebRTC media	5	1.71	1.06	0.26	144.48	144.57	146.21	0.02	0.00	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-12-02 04:47:58
End at: 2018-12-02 04:48:28
Local clock offset: 7.058 ms
Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-12-02 07:28:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 384.64 Mbit/s
95th percentile per-packet one-way delay: 143.612 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 202.24 Mbit/s
95th percentile per-packet one-way delay: 143.655 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 187.38 Mbit/s
95th percentile per-packet one-way delay: 137.046 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 173.05 Mbit/s
95th percentile per-packet one-way delay: 149.752 ms
Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link

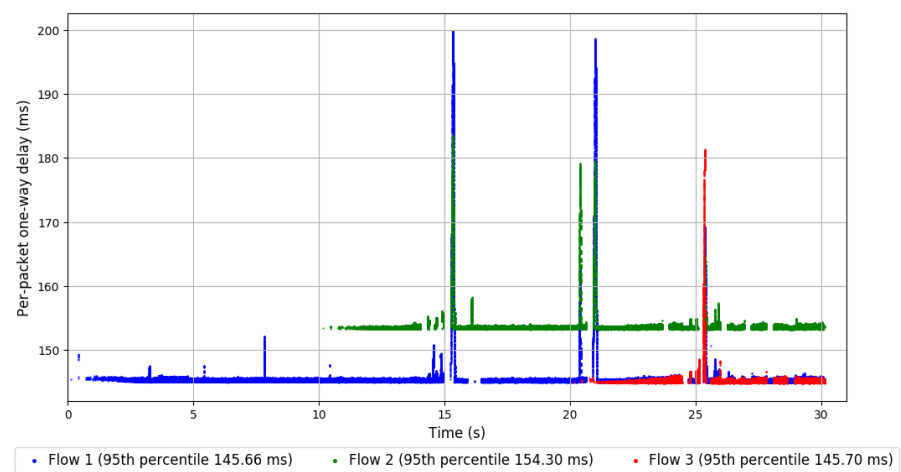
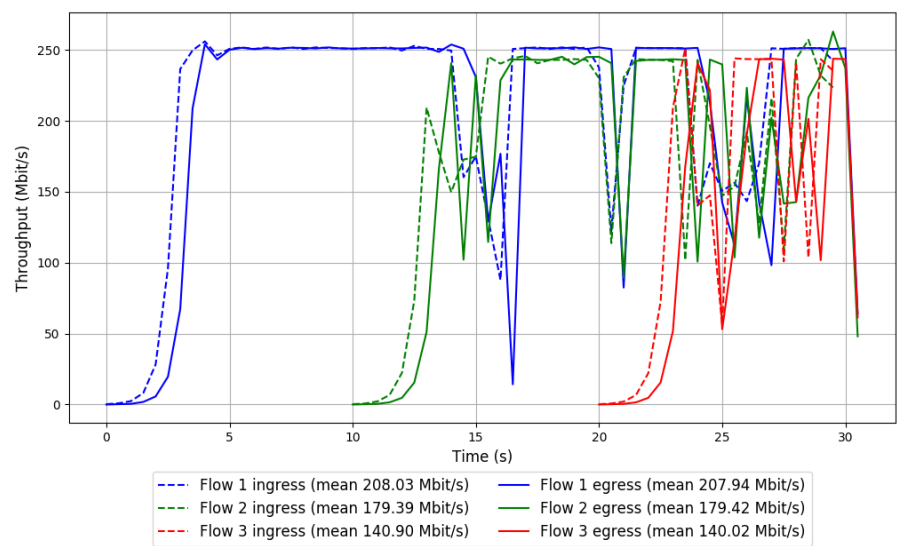


Run 2: Statistics of TCP BBR

Start at: 2018-12-02 05:19:16
End at: 2018-12-02 05:19:46
Local clock offset: -0.223 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-12-02 07:28:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 373.87 Mbit/s
95th percentile per-packet one-way delay: 153.790 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 207.94 Mbit/s
95th percentile per-packet one-way delay: 145.655 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 179.42 Mbit/s
95th percentile per-packet one-way delay: 154.304 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 140.02 Mbit/s
95th percentile per-packet one-way delay: 145.702 ms
Loss rate: 0.65%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-12-02 05:50:43

End at: 2018-12-02 05:51:13

Local clock offset: 7.612 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-12-02 07:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.86 Mbit/s

95th percentile per-packet one-way delay: 143.731 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 198.49 Mbit/s

95th percentile per-packet one-way delay: 135.162 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 189.84 Mbit/s

95th percentile per-packet one-way delay: 143.868 ms

Loss rate: 0.06%

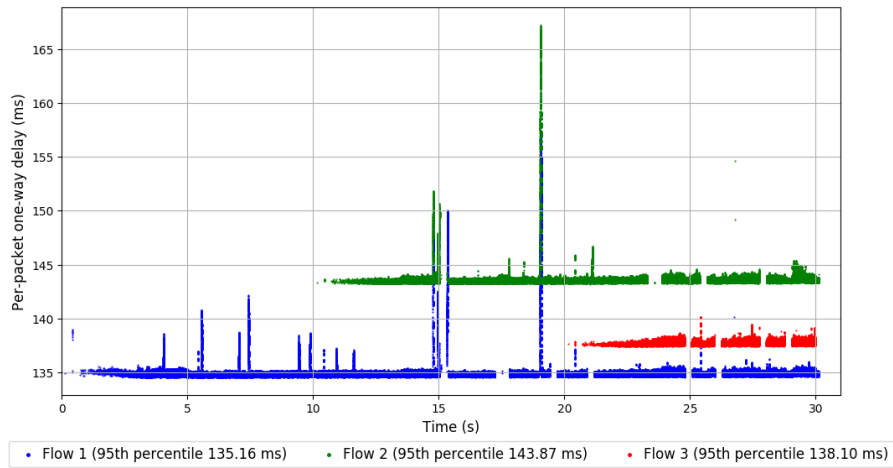
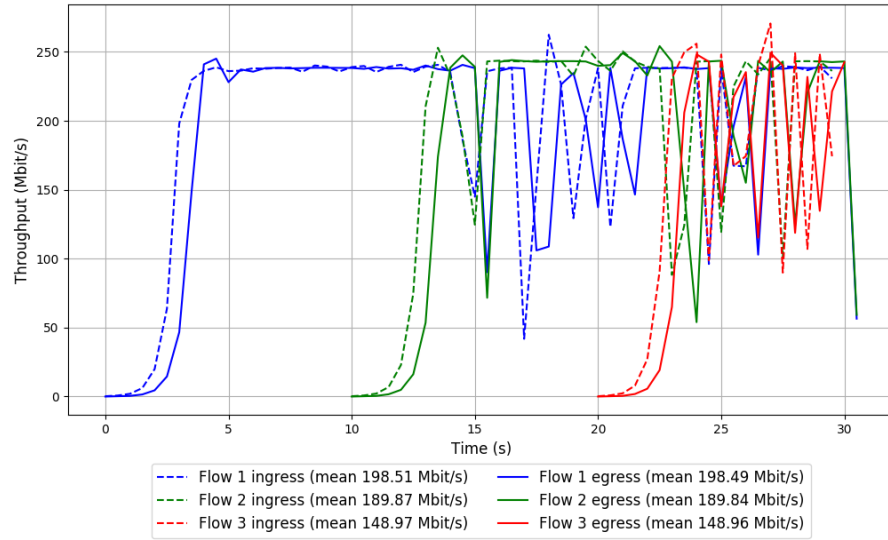
-- Flow 3:

Average throughput: 148.96 Mbit/s

95th percentile per-packet one-way delay: 138.097 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-12-02 06:22:05

End at: 2018-12-02 06:22:35

Local clock offset: 8.379 ms

Remote clock offset: 2.664 ms

Below is generated by plot.py at 2018-12-02 07:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.10 Mbit/s

95th percentile per-packet one-way delay: 144.999 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 205.64 Mbit/s

95th percentile per-packet one-way delay: 143.892 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 202.75 Mbit/s

95th percentile per-packet one-way delay: 135.242 ms

Loss rate: 0.07%

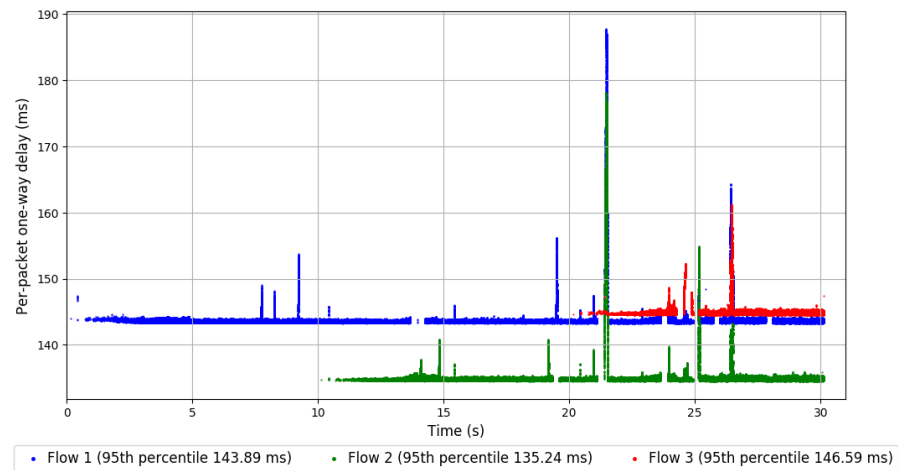
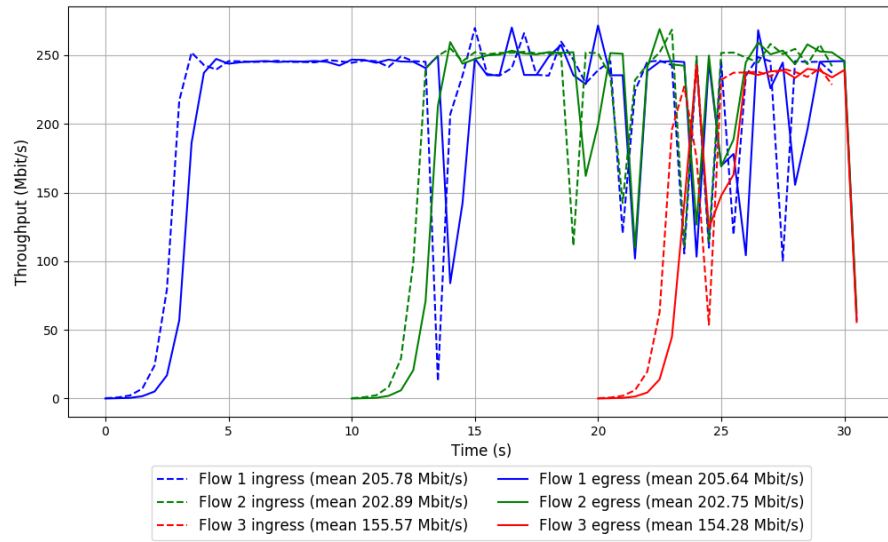
-- Flow 3:

Average throughput: 154.28 Mbit/s

95th percentile per-packet one-way delay: 146.595 ms

Loss rate: 0.89%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-12-02 06:53:35

End at: 2018-12-02 06:54:05

Local clock offset: 5.956 ms

Remote clock offset: 4.518 ms

Below is generated by plot.py at 2018-12-02 07:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.92 Mbit/s

95th percentile per-packet one-way delay: 152.422 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 210.18 Mbit/s

95th percentile per-packet one-way delay: 137.908 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 188.55 Mbit/s

95th percentile per-packet one-way delay: 136.937 ms

Loss rate: 0.02%

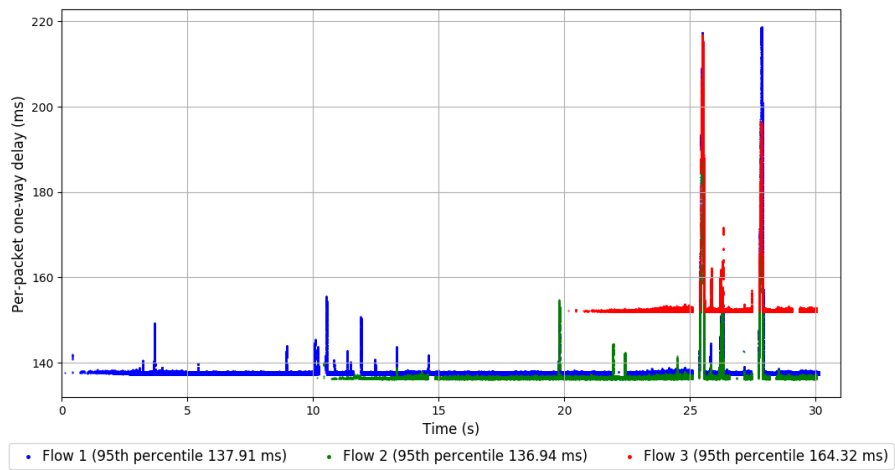
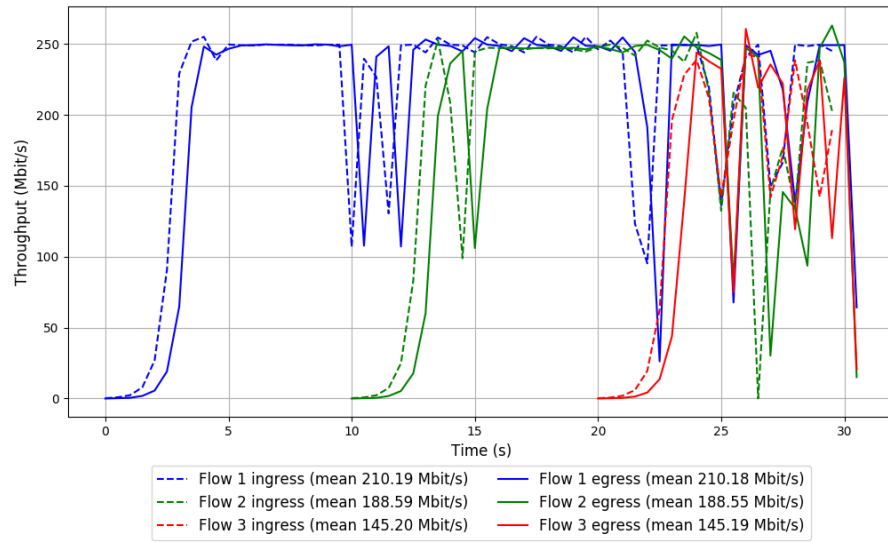
-- Flow 3:

Average throughput: 145.19 Mbit/s

95th percentile per-packet one-way delay: 164.323 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link

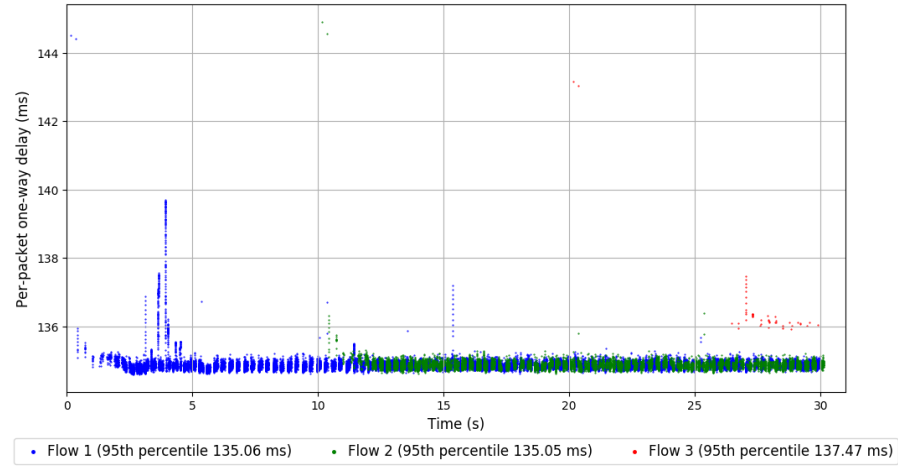
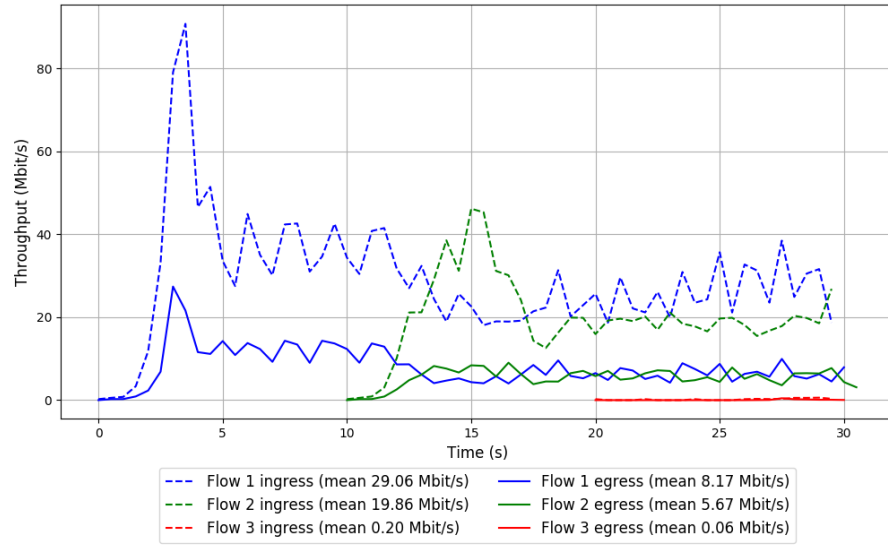


Run 1: Statistics of Copa

Start at: 2018-12-02 04:59:37
End at: 2018-12-02 05:00:07
Local clock offset: 7.201 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-12-02 07:28:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 135.057 ms
Loss rate: 71.74%
-- Flow 1:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 135.058 ms
Loss rate: 71.88%
-- Flow 2:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 135.046 ms
Loss rate: 71.44%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.469 ms
Loss rate: 70.30%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-02 05:30:56

End at: 2018-12-02 05:31:26

Local clock offset: 7.483 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-12-02 07:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 70.33%

-- Flow 1:

Average throughput: 9.08 Mbit/s

95th percentile per-packet one-way delay: 135.636 ms

Loss rate: 69.15%

-- Flow 2:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 133.859 ms

Loss rate: 73.95%

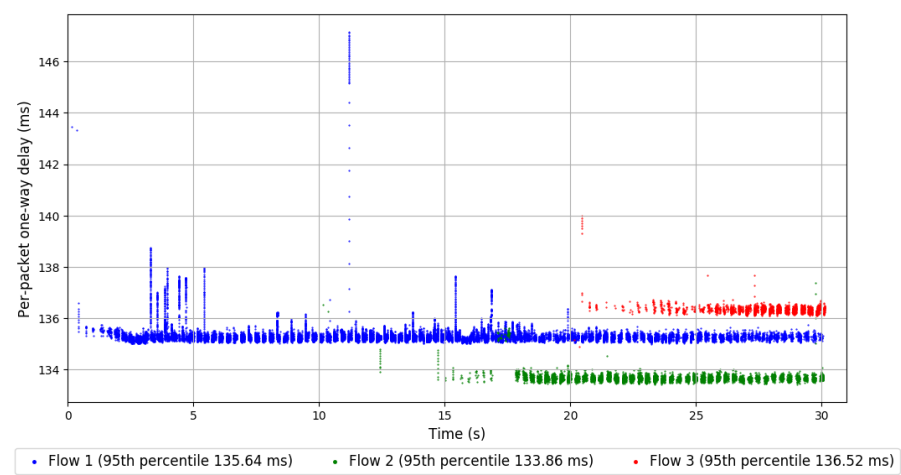
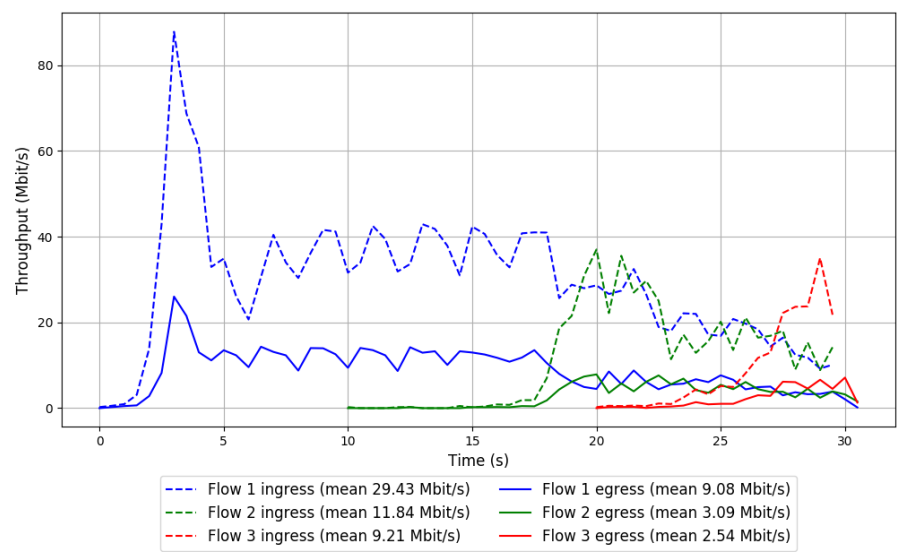
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 136.517 ms

Loss rate: 72.39%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

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

Local clock offset: -0.49 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-12-02 07:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 145.636 ms

Loss rate: 72.38%

-- Flow 1:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 145.766 ms

Loss rate: 71.63%

-- Flow 2:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 143.334 ms

Loss rate: 74.03%

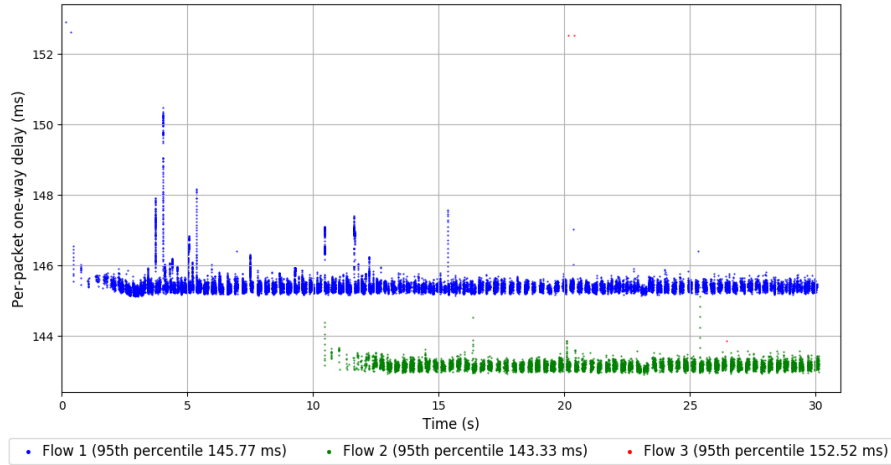
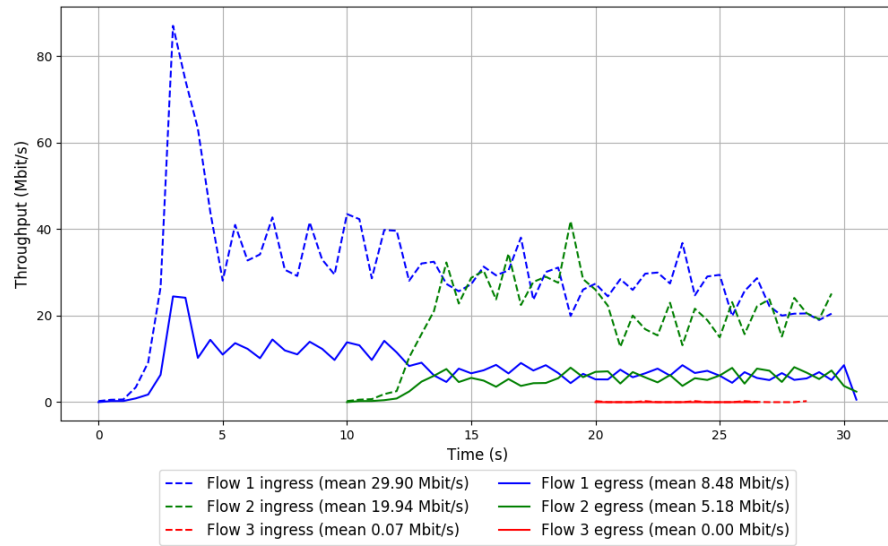
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 152.519 ms

Loss rate: 97.76%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-12-02 06:33:46

End at: 2018-12-02 06:34:16

Local clock offset: 7.587 ms

Remote clock offset: 3.47 ms

Below is generated by plot.py at 2018-12-02 07:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 70.74%

-- Flow 1:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 70.46%

-- Flow 2:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 134.951 ms

Loss rate: 71.79%

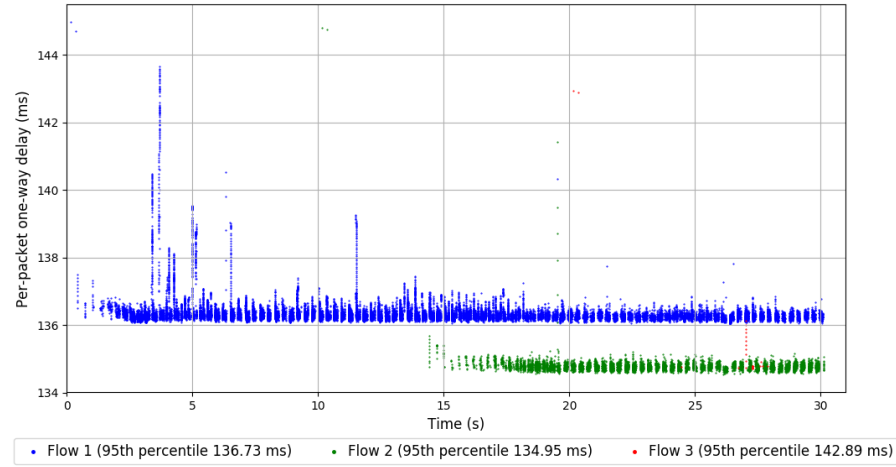
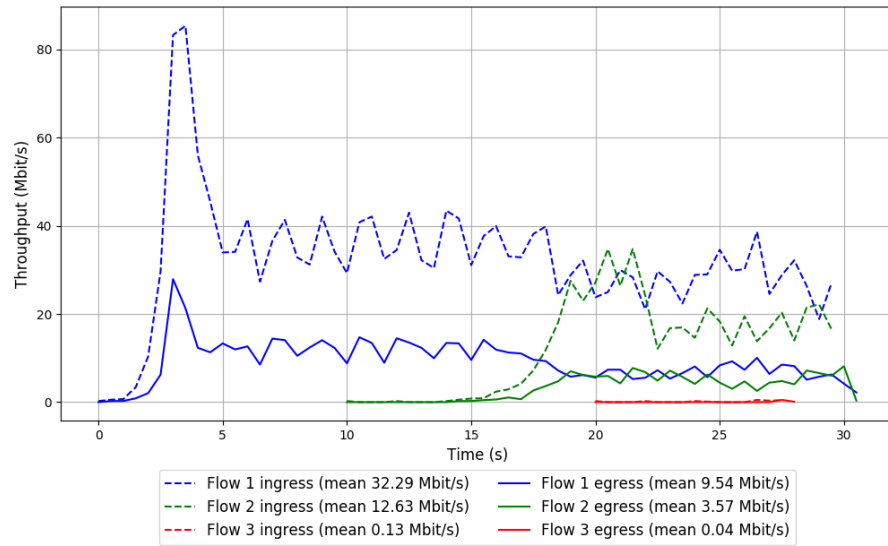
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 142.892 ms

Loss rate: 69.18%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-02 07:05:11

End at: 2018-12-02 07:05:41

Local clock offset: 6.958 ms

Remote clock offset: 5.13 ms

Below is generated by plot.py at 2018-12-02 07:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 140.374 ms

Loss rate: 71.66%

-- Flow 1:

Average throughput: 8.23 Mbit/s

95th percentile per-packet one-way delay: 135.217 ms

Loss rate: 71.44%

-- Flow 2:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 140.484 ms

Loss rate: 71.17%

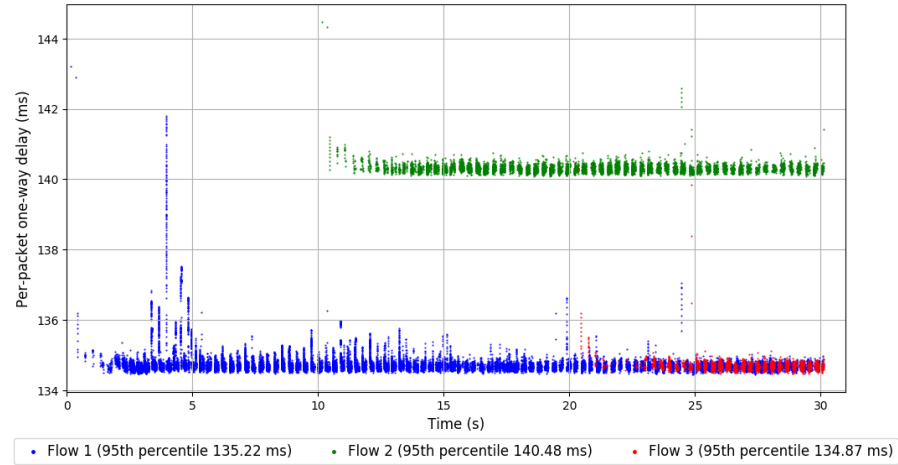
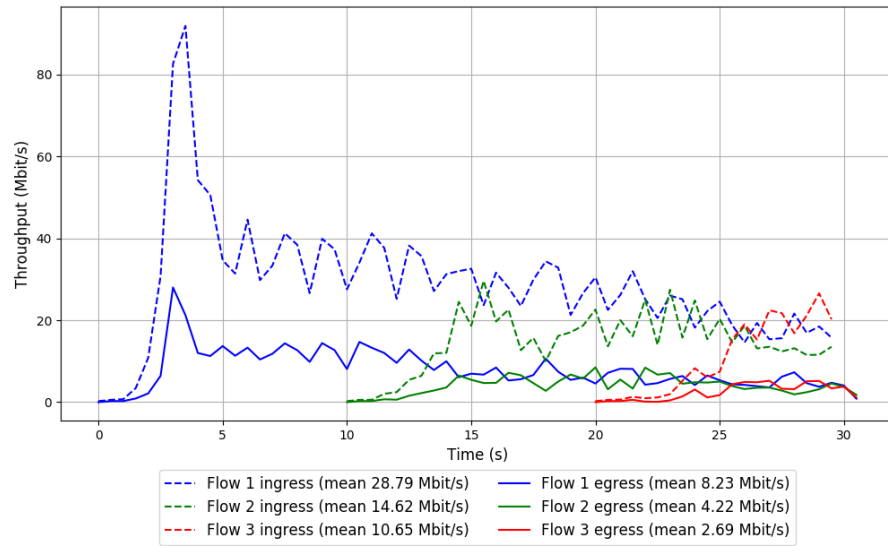
-- Flow 3:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 134.868 ms

Loss rate: 74.81%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-12-02 05:08:33

End at: 2018-12-02 05:09:03

Local clock offset: 7.78 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-12-02 07:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.34 Mbit/s

95th percentile per-packet one-way delay: 145.959 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 207.42 Mbit/s

95th percentile per-packet one-way delay: 139.271 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 171.85 Mbit/s

95th percentile per-packet one-way delay: 150.480 ms

Loss rate: 0.07%

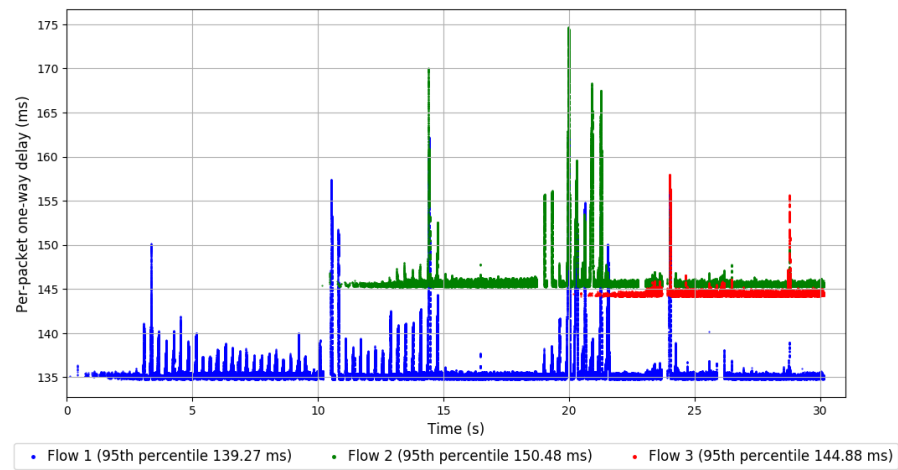
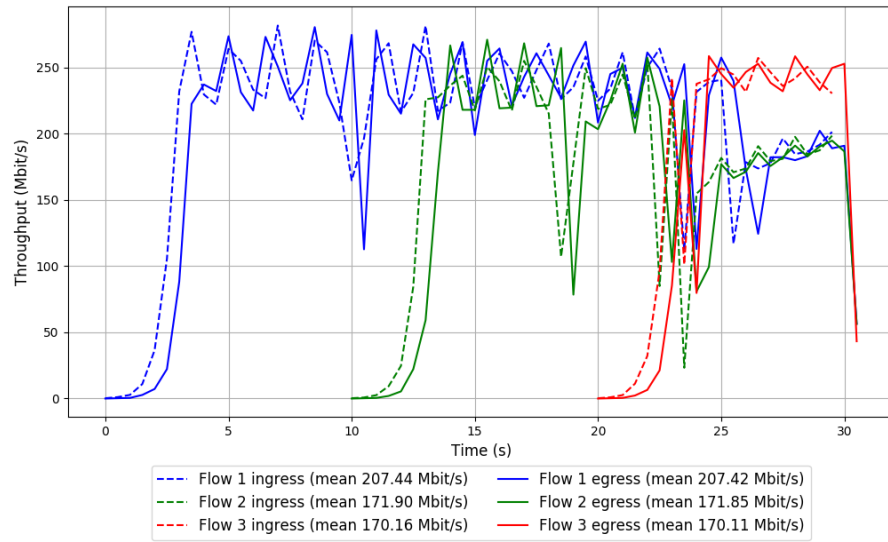
-- Flow 3:

Average throughput: 170.11 Mbit/s

95th percentile per-packet one-way delay: 144.876 ms

Loss rate: 0.12%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-02 05:39:56

End at: 2018-12-02 05:40:26

Local clock offset: 6.134 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-12-02 07:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.57 Mbit/s

95th percentile per-packet one-way delay: 152.451 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 179.88 Mbit/s

95th percentile per-packet one-way delay: 138.053 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 160.67 Mbit/s

95th percentile per-packet one-way delay: 152.632 ms

Loss rate: 0.09%

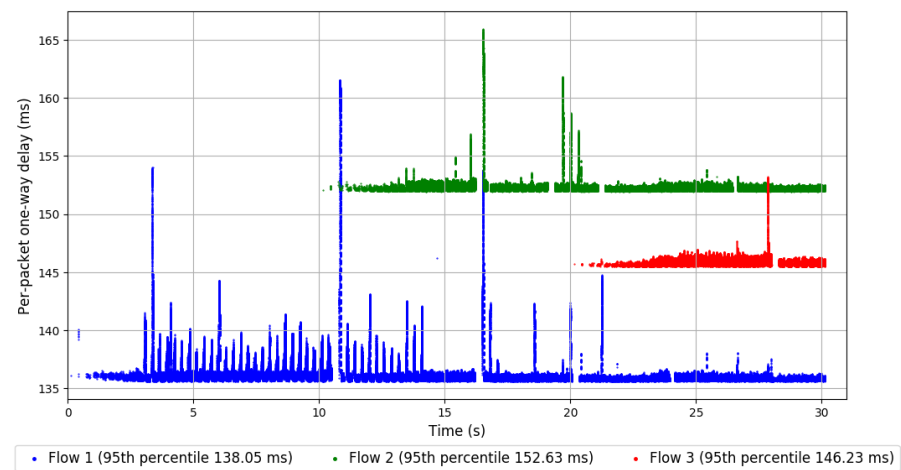
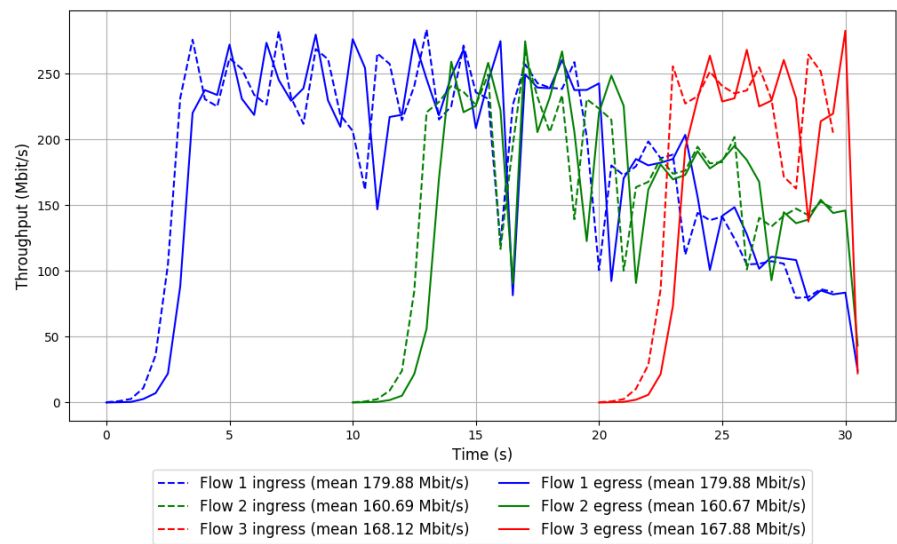
-- Flow 3:

Average throughput: 167.88 Mbit/s

95th percentile per-packet one-way delay: 146.234 ms

Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-12-02 06:11:20

End at: 2018-12-02 06:11:50

Local clock offset: 7.65 ms

Remote clock offset: 0.6 ms

Below is generated by plot.py at 2018-12-02 07:29:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.79 Mbit/s

95th percentile per-packet one-way delay: 144.549 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 195.97 Mbit/s

95th percentile per-packet one-way delay: 142.695 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 148.068 ms

Loss rate: 0.05%

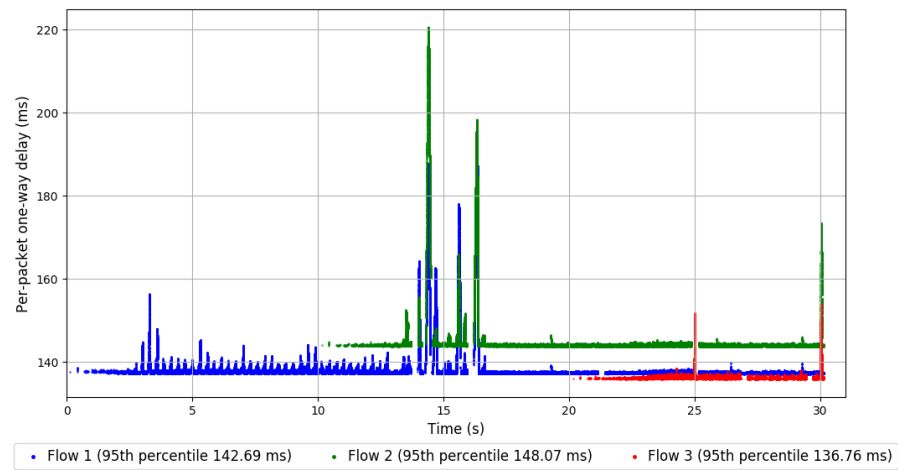
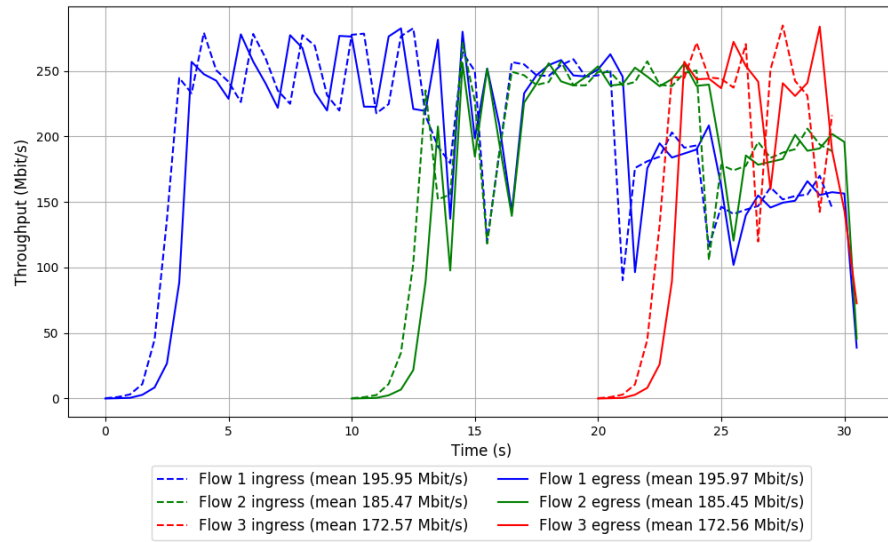
-- Flow 3:

Average throughput: 172.56 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-12-02 06:42:52

End at: 2018-12-02 06:43:22

Local clock offset: 6.263 ms

Remote clock offset: 4.066 ms

Below is generated by plot.py at 2018-12-02 07:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.22 Mbit/s

95th percentile per-packet one-way delay: 152.521 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 133.69 Mbit/s

95th percentile per-packet one-way delay: 152.685 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 170.99 Mbit/s

95th percentile per-packet one-way delay: 141.929 ms

Loss rate: 0.01%

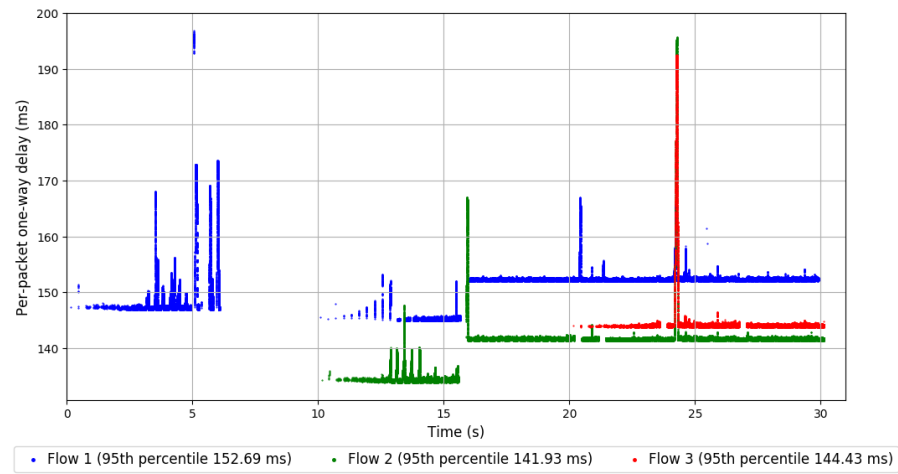
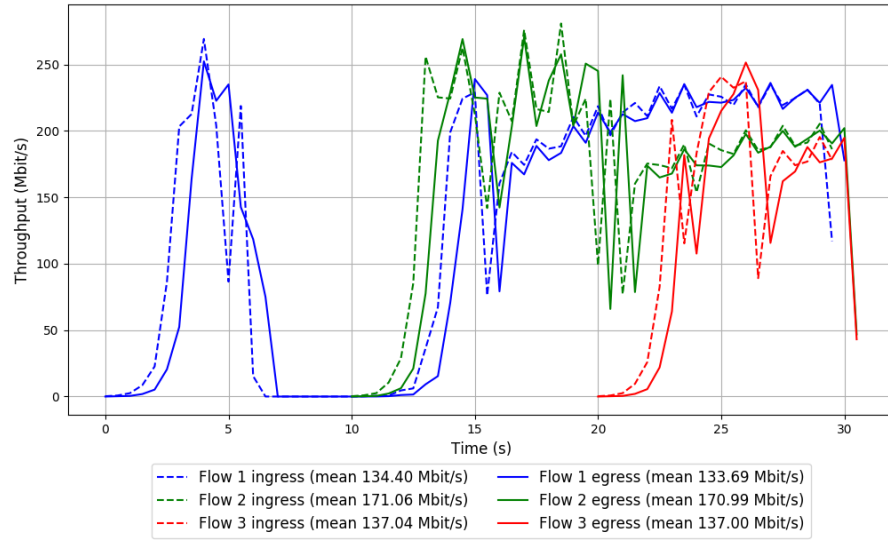
-- Flow 3:

Average throughput: 137.00 Mbit/s

95th percentile per-packet one-way delay: 144.425 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-12-02 07:14:17

End at: 2018-12-02 07:14:47

Local clock offset: 5.688 ms

Remote clock offset: 5.495 ms

Below is generated by plot.py at 2018-12-02 07:32:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.38 Mbit/s

95th percentile per-packet one-way delay: 146.060 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 200.23 Mbit/s

95th percentile per-packet one-way delay: 141.234 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 203.52 Mbit/s

95th percentile per-packet one-way delay: 150.668 ms

Loss rate: 0.06%

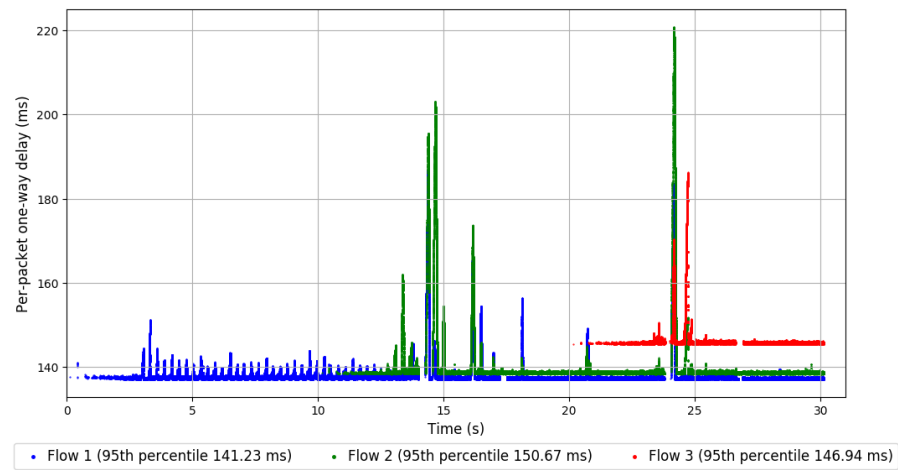
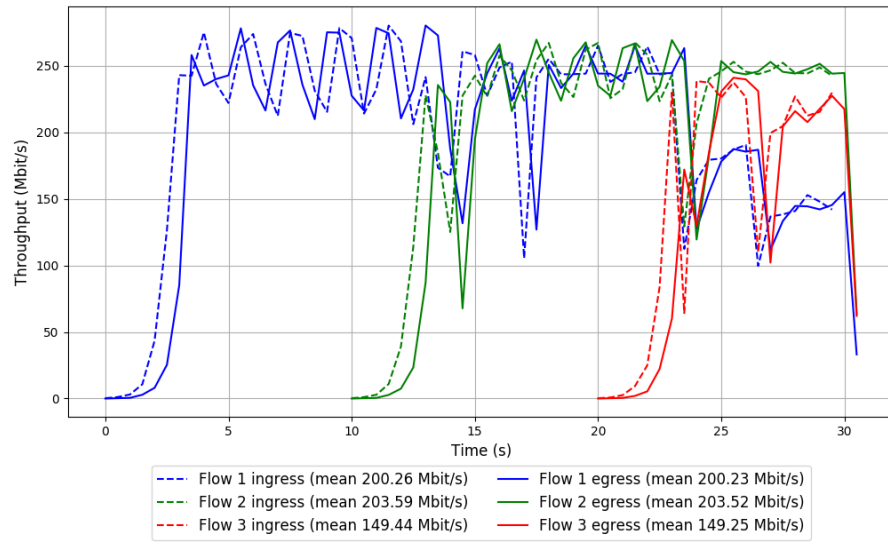
-- Flow 3:

Average throughput: 149.25 Mbit/s

95th percentile per-packet one-way delay: 146.944 ms

Loss rate: 0.24%

Run 5: Report of TCP Cubic — Data Link

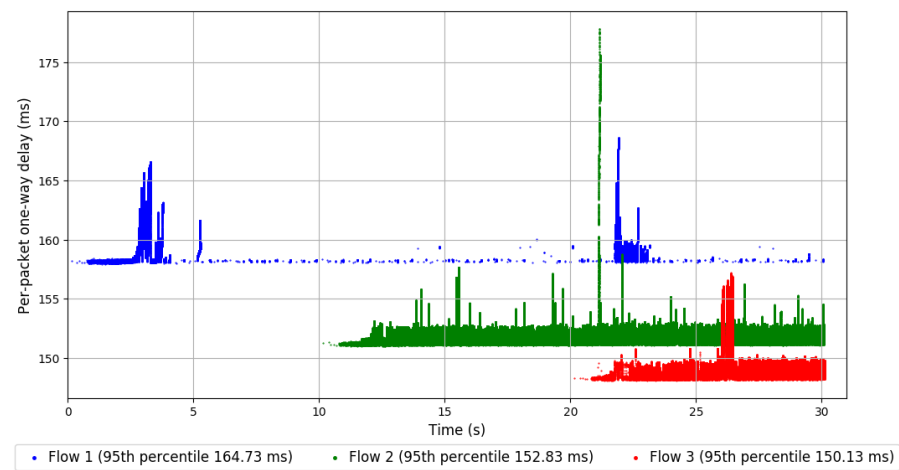
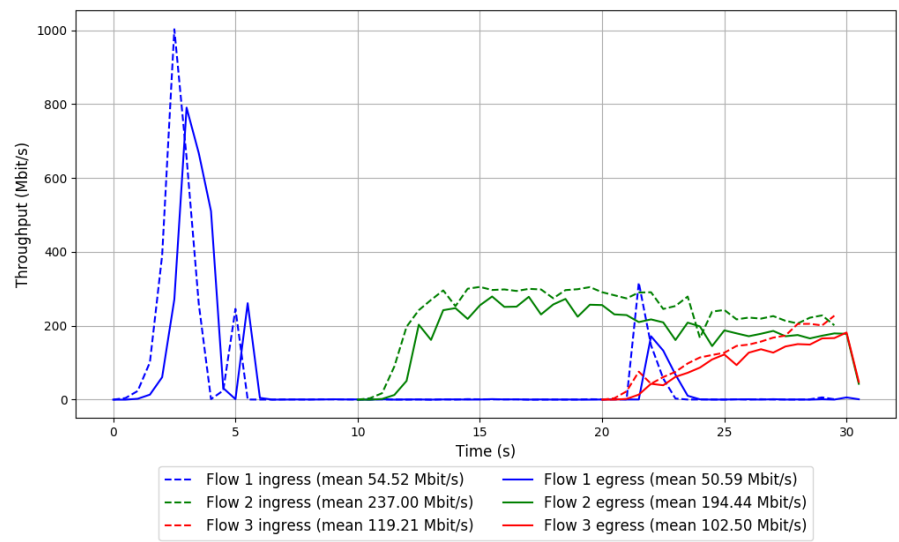


Run 1: Statistics of FillP

Start at: 2018-12-02 04:49:46
End at: 2018-12-02 04:50:16
Local clock offset: -6.112 ms
Remote clock offset: -0.247 ms

Below is generated by plot.py at 2018-12-02 07:32:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.98 Mbit/s
95th percentile per-packet one-way delay: 160.740 ms
Loss rate: 15.01%
-- Flow 1:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 164.729 ms
Loss rate: 7.21%
-- Flow 2:
Average throughput: 194.44 Mbit/s
95th percentile per-packet one-way delay: 152.832 ms
Loss rate: 17.96%
-- Flow 3:
Average throughput: 102.50 Mbit/s
95th percentile per-packet one-way delay: 150.129 ms
Loss rate: 14.02%

Run 1: Report of FillP — Data Link

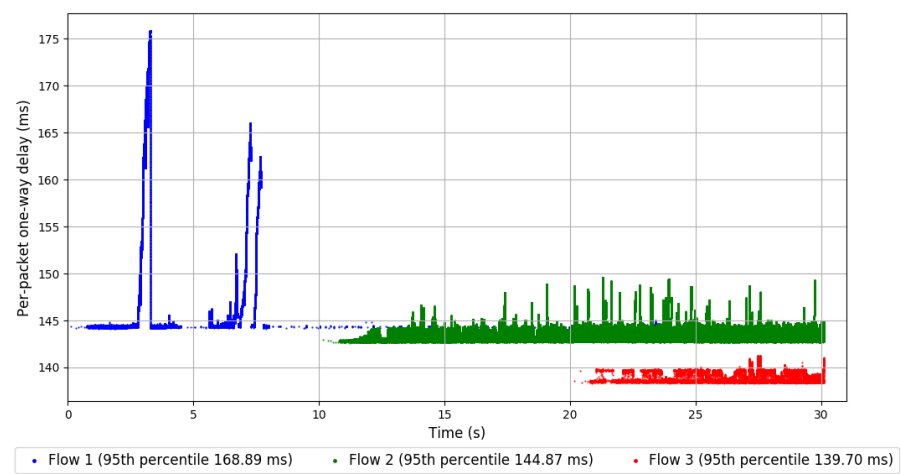
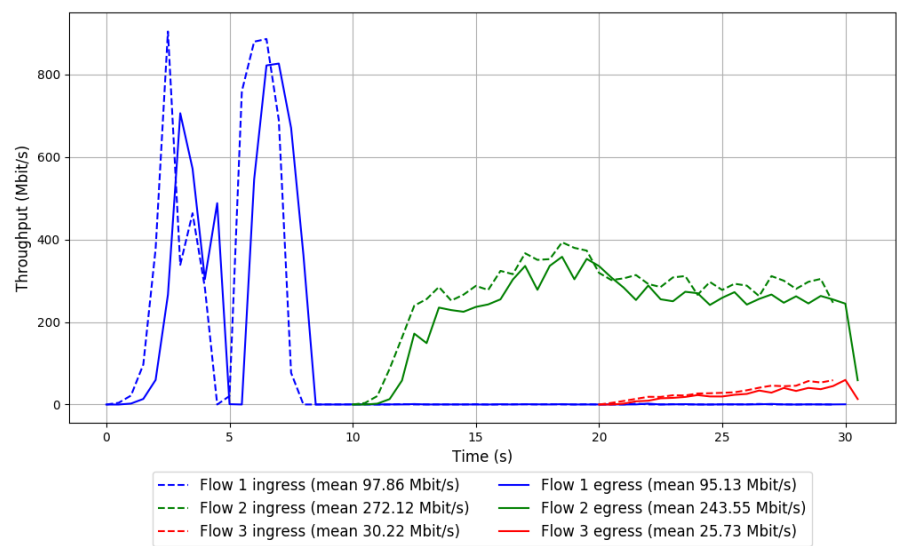


Run 2: Statistics of FillP

Start at: 2018-12-02 05:21:04
End at: 2018-12-02 05:21:34
Local clock offset: 7.291 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-12-02 07:32:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.99 Mbit/s
95th percentile per-packet one-way delay: 159.799 ms
Loss rate: 8.05%
-- Flow 1:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 168.894 ms
Loss rate: 2.79%
-- Flow 2:
Average throughput: 243.55 Mbit/s
95th percentile per-packet one-way delay: 144.869 ms
Loss rate: 10.50%
-- Flow 3:
Average throughput: 25.73 Mbit/s
95th percentile per-packet one-way delay: 139.703 ms
Loss rate: 14.86%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-12-02 05:52:31

End at: 2018-12-02 05:53:01

Local clock offset: 6.814 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-12-02 07:32:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.78 Mbit/s

95th percentile per-packet one-way delay: 154.798 ms

Loss rate: 11.90%

-- Flow 1:

Average throughput: 46.27 Mbit/s

95th percentile per-packet one-way delay: 166.679 ms

Loss rate: 3.07%

-- Flow 2:

Average throughput: 162.74 Mbit/s

95th percentile per-packet one-way delay: 137.893 ms

Loss rate: 16.37%

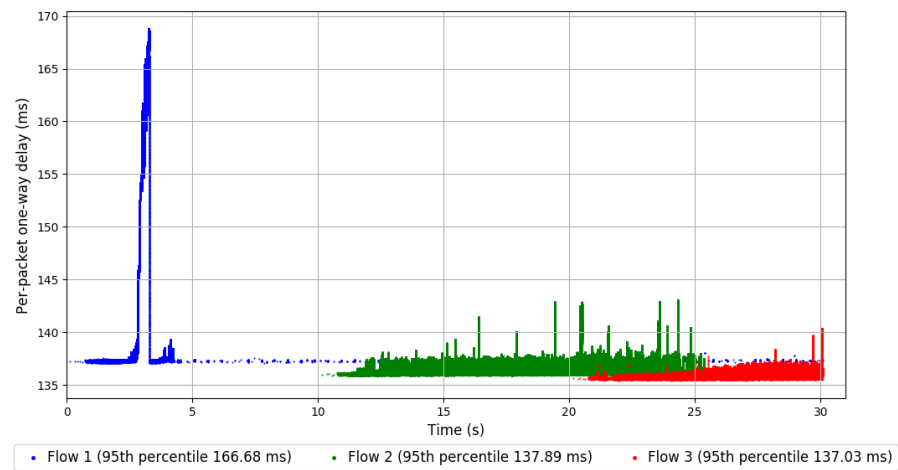
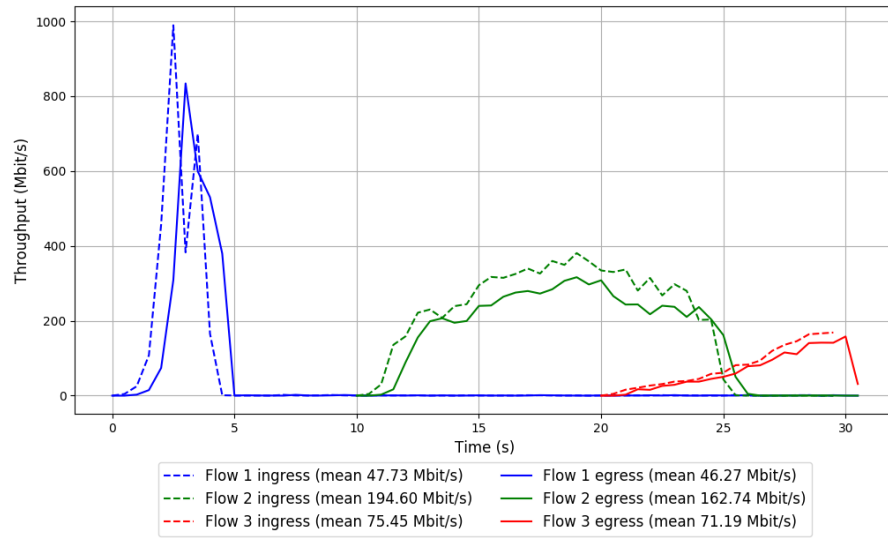
-- Flow 3:

Average throughput: 71.19 Mbit/s

95th percentile per-packet one-way delay: 137.034 ms

Loss rate: 5.65%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-12-02 06:23:54

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

Local clock offset: 8.105 ms

Remote clock offset: 2.713 ms

Below is generated by plot.py at 2018-12-02 07:33:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.09 Mbit/s

95th percentile per-packet one-way delay: 151.362 ms

Loss rate: 9.12%

-- Flow 1:

Average throughput: 111.39 Mbit/s

95th percentile per-packet one-way delay: 164.209 ms

Loss rate: 2.70%

-- Flow 2:

Average throughput: 213.92 Mbit/s

95th percentile per-packet one-way delay: 138.569 ms

Loss rate: 15.76%

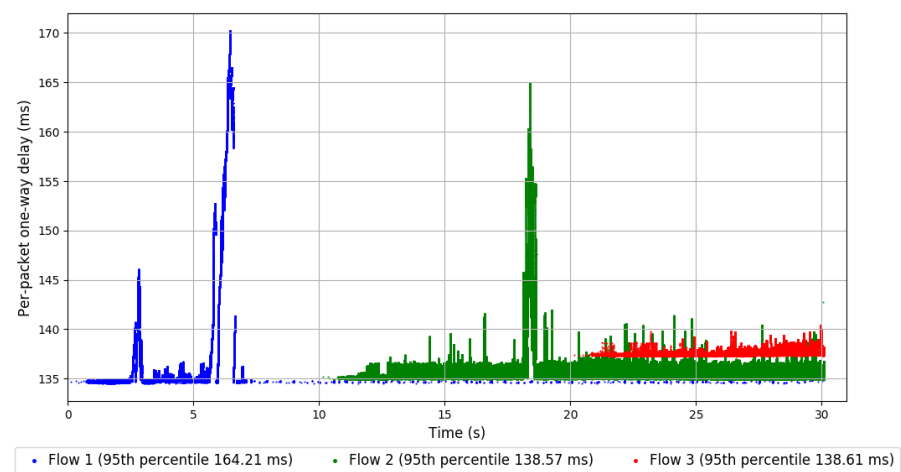
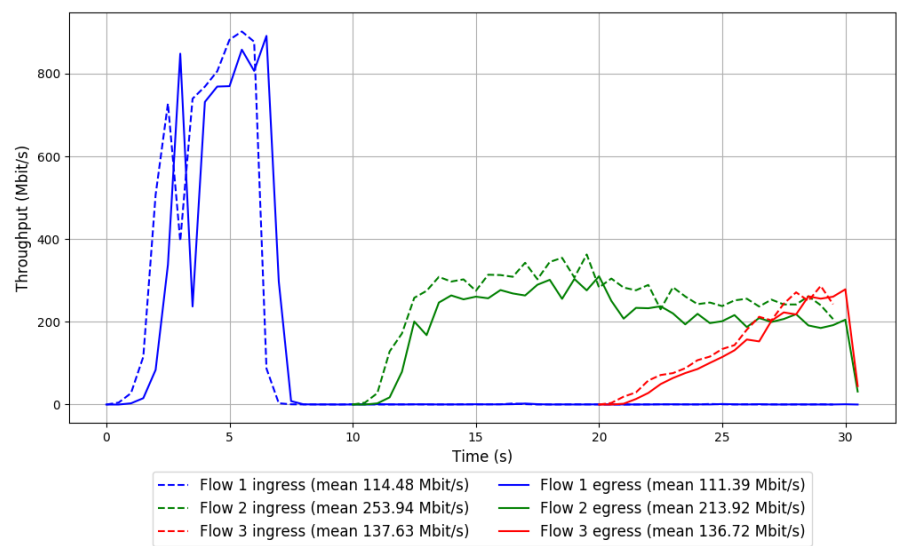
-- Flow 3:

Average throughput: 136.72 Mbit/s

95th percentile per-packet one-way delay: 138.606 ms

Loss rate: 0.66%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-12-02 06:55:23

End at: 2018-12-02 06:55:53

Local clock offset: -1.093 ms

Remote clock offset: 4.584 ms

Below is generated by plot.py at 2018-12-02 07:33:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.72 Mbit/s

95th percentile per-packet one-way delay: 159.951 ms

Loss rate: 13.63%

-- Flow 1:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 167.342 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 216.80 Mbit/s

95th percentile per-packet one-way delay: 149.580 ms

Loss rate: 15.24%

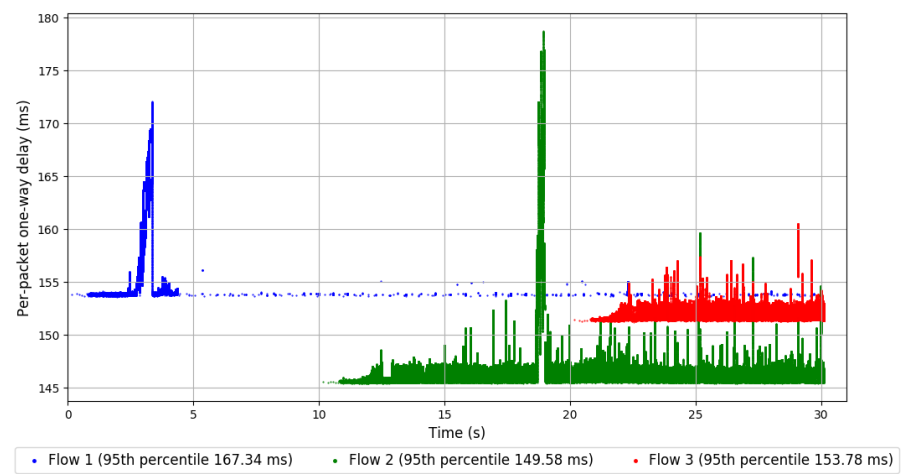
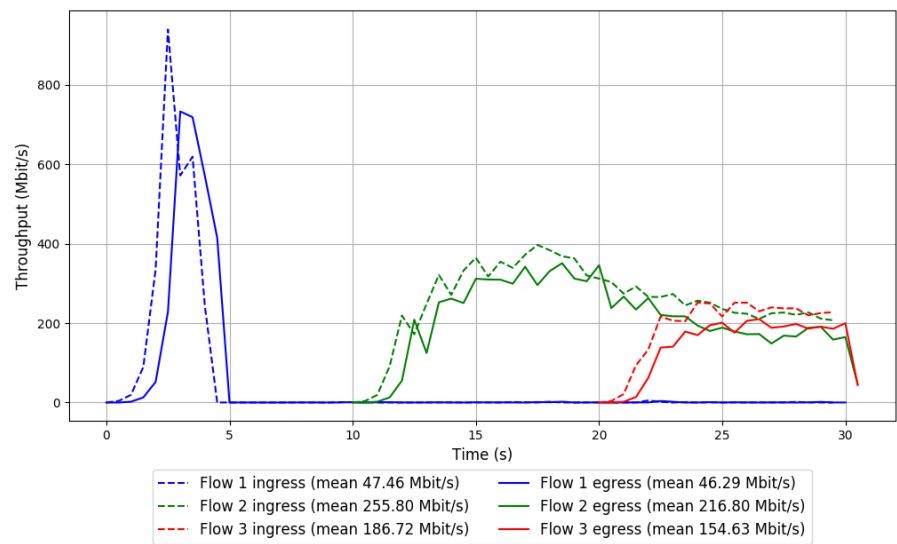
-- Flow 3:

Average throughput: 154.63 Mbit/s

95th percentile per-packet one-way delay: 153.778 ms

Loss rate: 17.21%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

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

End at: 2018-12-02 05:03:20

Local clock offset: -3.935 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-12-02 07:33:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.04 Mbit/s

95th percentile per-packet one-way delay: 155.463 ms

Loss rate: 10.88%

-- Flow 1:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 157.088 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 173.43 Mbit/s

95th percentile per-packet one-way delay: 150.285 ms

Loss rate: 13.64%

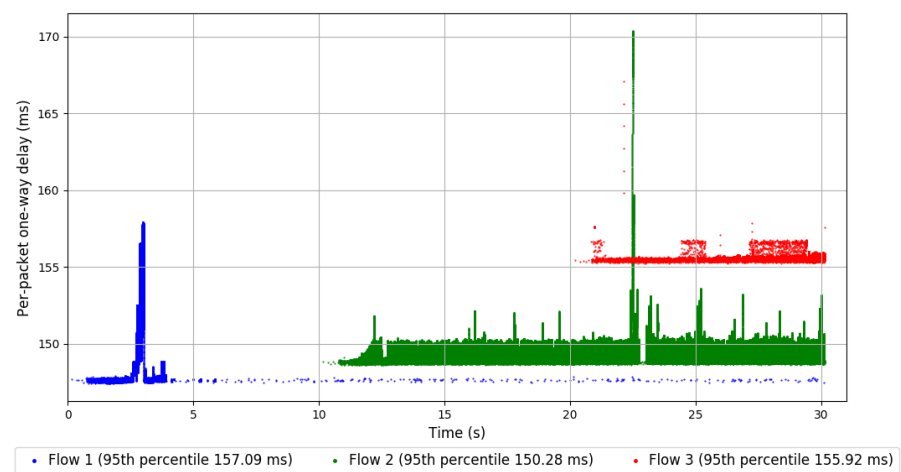
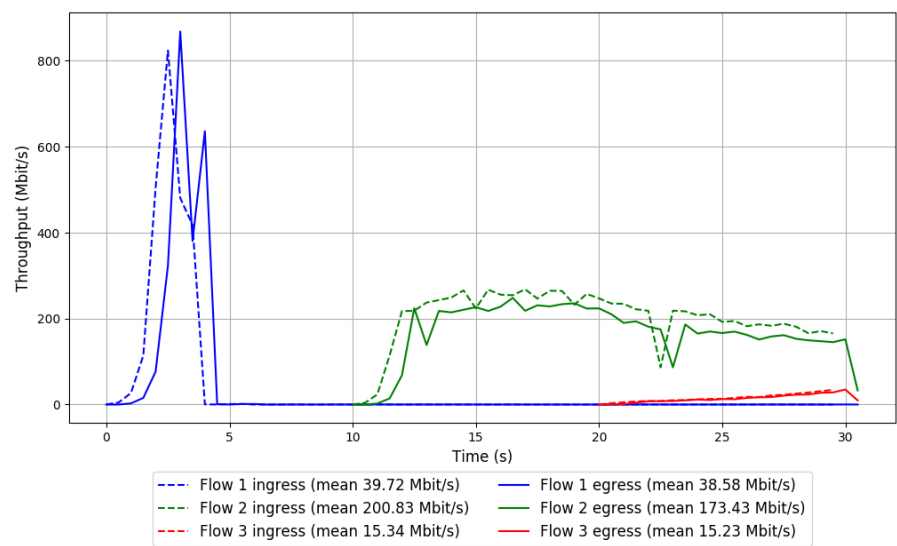
-- Flow 3:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 155.916 ms

Loss rate: 0.75%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-12-02 05:34:18

End at: 2018-12-02 05:34:48

Local clock offset: 6.215 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-12-02 07:33:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.64 Mbit/s

95th percentile per-packet one-way delay: 144.657 ms

Loss rate: 10.83%

-- Flow 1:

Average throughput: 43.06 Mbit/s

95th percentile per-packet one-way delay: 149.973 ms

Loss rate: 3.69%

-- Flow 2:

Average throughput: 175.57 Mbit/s

95th percentile per-packet one-way delay: 140.315 ms

Loss rate: 13.46%

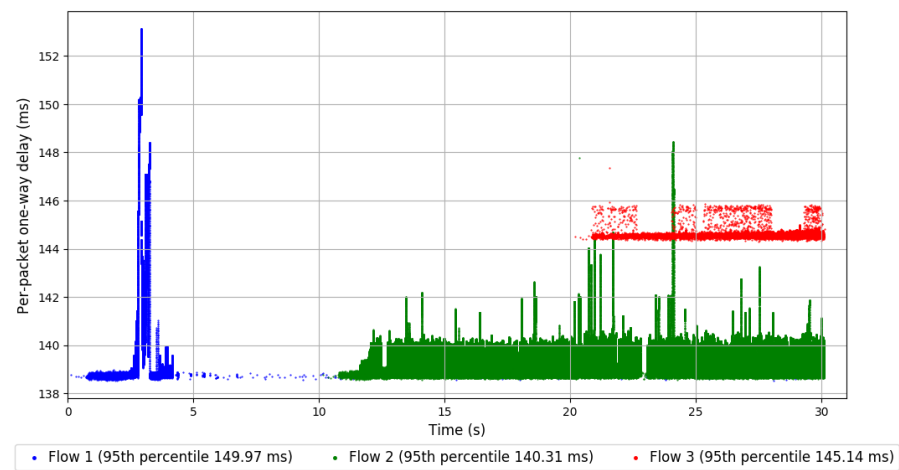
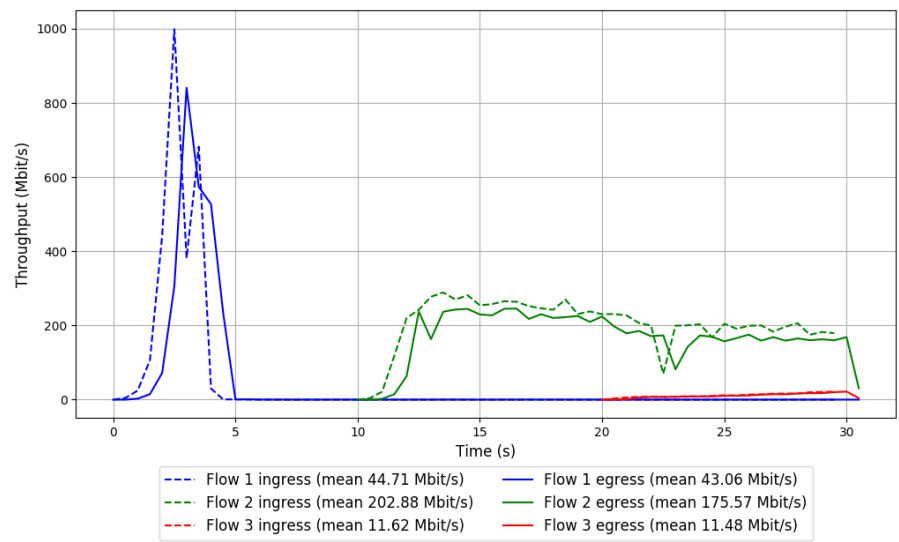
-- Flow 3:

Average throughput: 11.48 Mbit/s

95th percentile per-packet one-way delay: 145.139 ms

Loss rate: 1.29%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-12-02 06:05:40

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

Local clock offset: 7.513 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-12-02 07:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.85 Mbit/s

95th percentile per-packet one-way delay: 148.807 ms

Loss rate: 11.97%

-- Flow 1:

Average throughput: 45.04 Mbit/s

95th percentile per-packet one-way delay: 223.214 ms

Loss rate: 5.10%

-- Flow 2:

Average throughput: 161.02 Mbit/s

95th percentile per-packet one-way delay: 137.830 ms

Loss rate: 14.13%

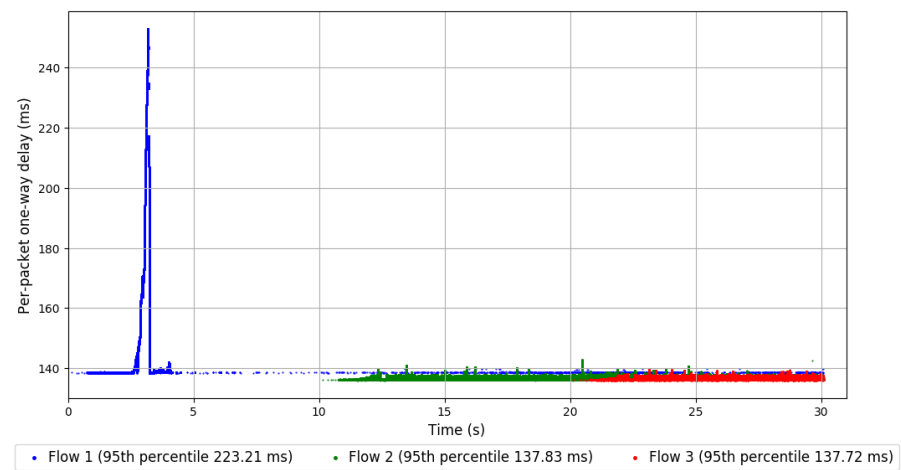
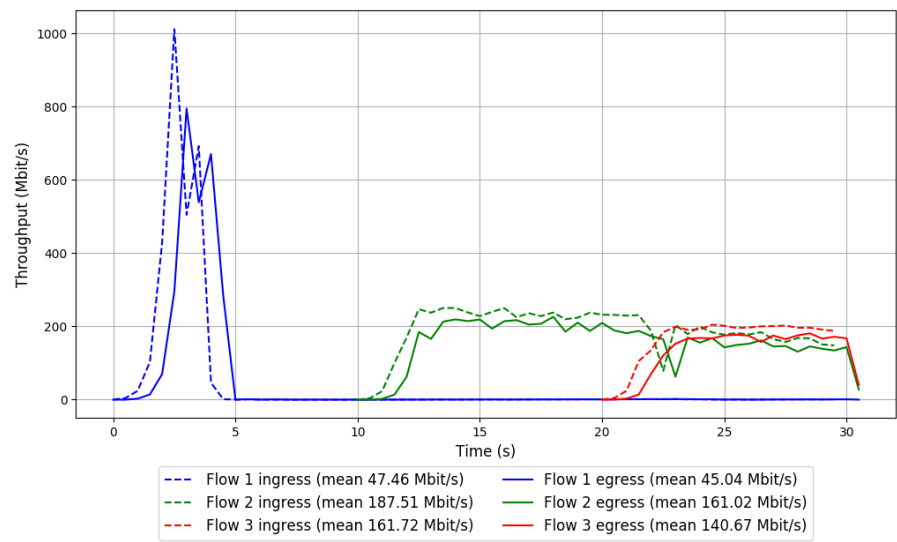
-- Flow 3:

Average throughput: 140.67 Mbit/s

95th percentile per-packet one-way delay: 137.723 ms

Loss rate: 13.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-12-02 06:37:07

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

Local clock offset: 6.369 ms

Remote clock offset: 3.666 ms

Below is generated by plot.py at 2018-12-02 07:34:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.69 Mbit/s

95th percentile per-packet one-way delay: 146.985 ms

Loss rate: 12.76%

-- Flow 1:

Average throughput: 45.55 Mbit/s

95th percentile per-packet one-way delay: 145.739 ms

Loss rate: 2.53%

-- Flow 2:

Average throughput: 174.92 Mbit/s

95th percentile per-packet one-way delay: 145.550 ms

Loss rate: 14.36%

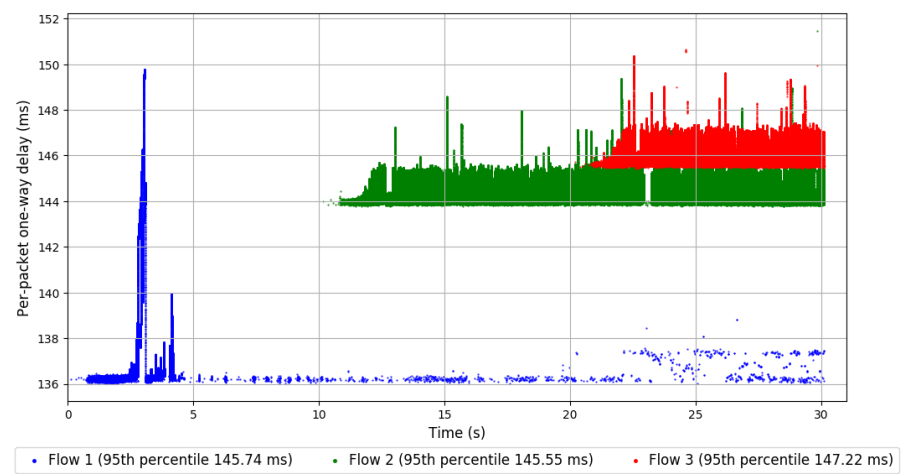
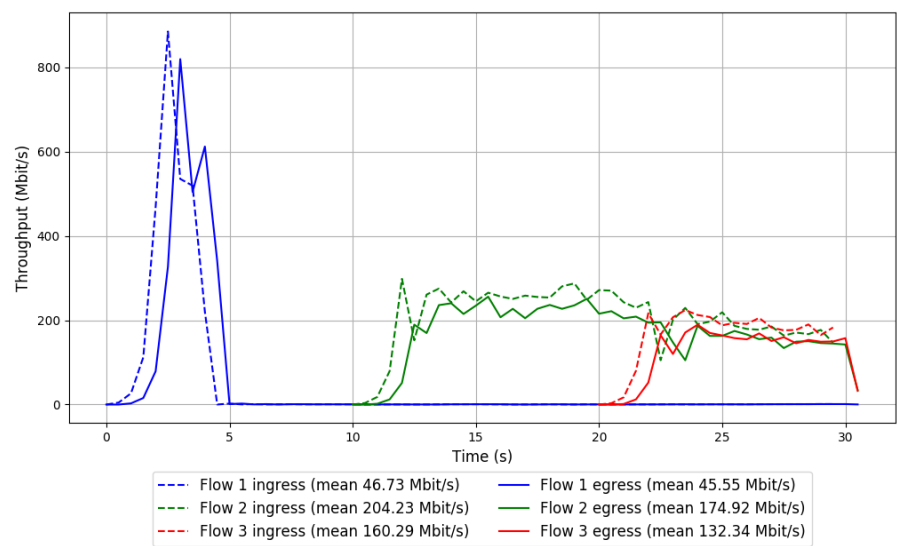
-- Flow 3:

Average throughput: 132.34 Mbit/s

95th percentile per-packet one-way delay: 147.220 ms

Loss rate: 17.69%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-12-02 07:08:32

End at: 2018-12-02 07:09:02

Local clock offset: 6.678 ms

Remote clock offset: 5.274 ms

Below is generated by plot.py at 2018-12-02 07:34:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.61 Mbit/s

95th percentile per-packet one-way delay: 148.429 ms

Loss rate: 10.60%

-- Flow 1:

Average throughput: 42.90 Mbit/s

95th percentile per-packet one-way delay: 162.360 ms

Loss rate: 3.56%

-- Flow 2:

Average throughput: 166.06 Mbit/s

95th percentile per-packet one-way delay: 139.182 ms

Loss rate: 13.77%

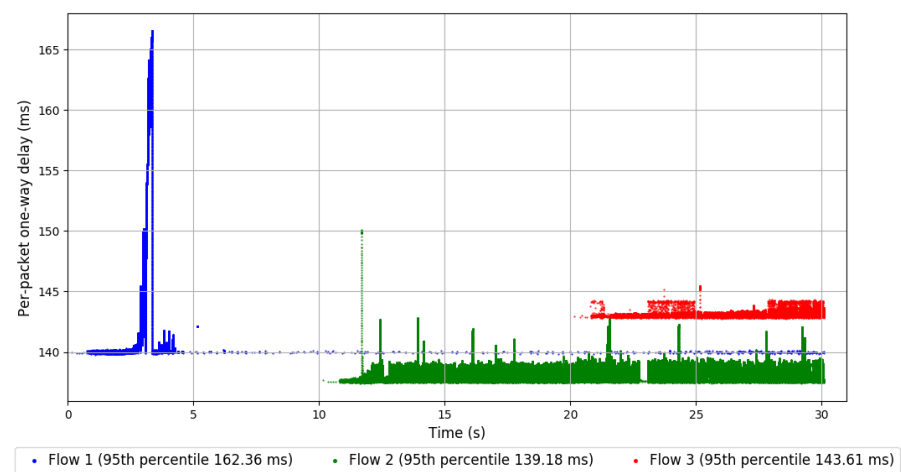
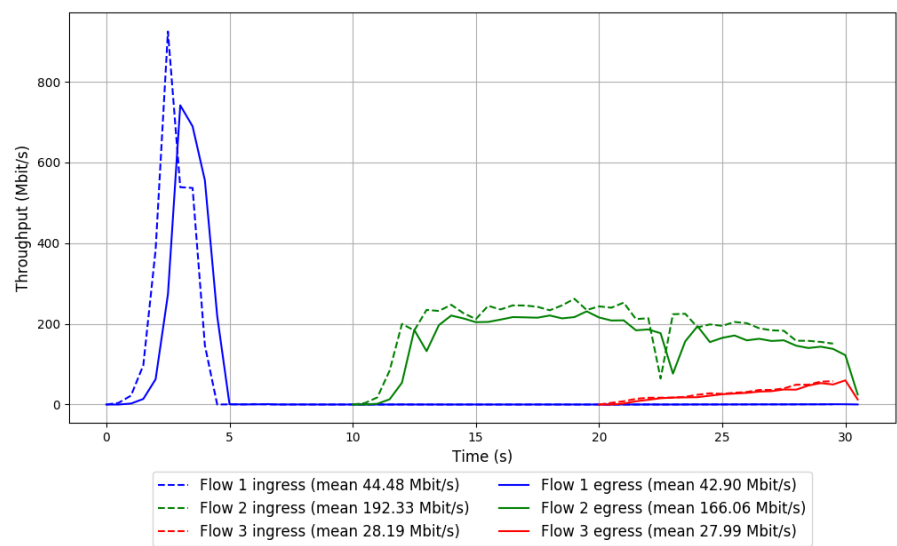
-- Flow 3:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 143.611 ms

Loss rate: 0.79%

Run 5: Report of FillP-Sheep — Data Link

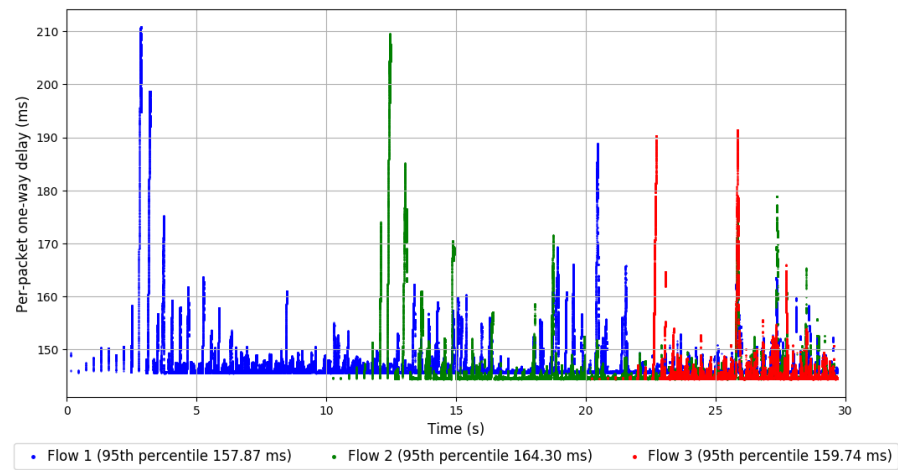
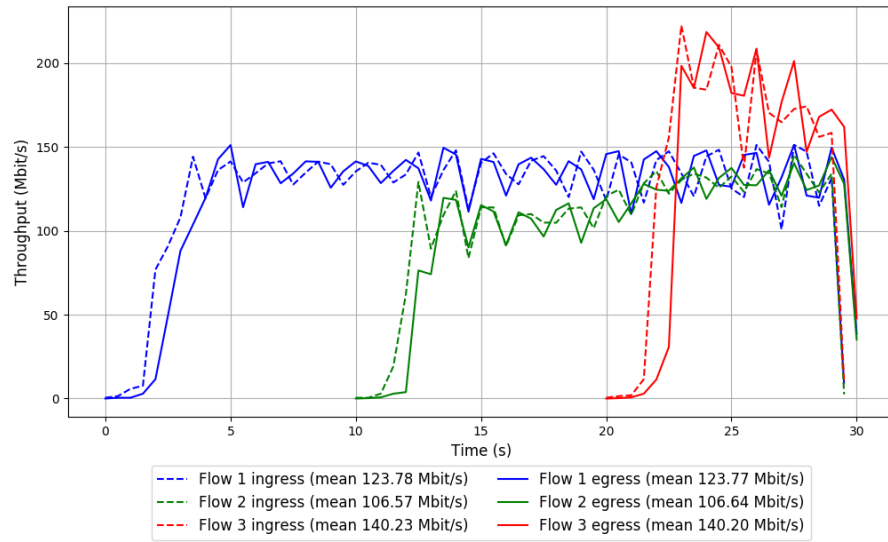


```
Run 1: Statistics of Indigo

Start at: 2018-12-02 04:51:25
End at: 2018-12-02 04:51:55
Local clock offset: -0.507 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-12-02 07:35:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 238.63 Mbit/s
95th percentile per-packet one-way delay: 159.162 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 123.77 Mbit/s
95th percentile per-packet one-way delay: 157.869 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 106.64 Mbit/s
95th percentile per-packet one-way delay: 164.298 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 140.20 Mbit/s
95th percentile per-packet one-way delay: 159.744 ms
Loss rate: 0.04%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-12-02 05:22:45

End at: 2018-12-02 05:23:15

Local clock offset: 7.066 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-12-02 07:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.48 Mbit/s

95th percentile per-packet one-way delay: 151.459 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 100.90 Mbit/s

95th percentile per-packet one-way delay: 147.037 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 118.51 Mbit/s

95th percentile per-packet one-way delay: 153.081 ms

Loss rate: 0.02%

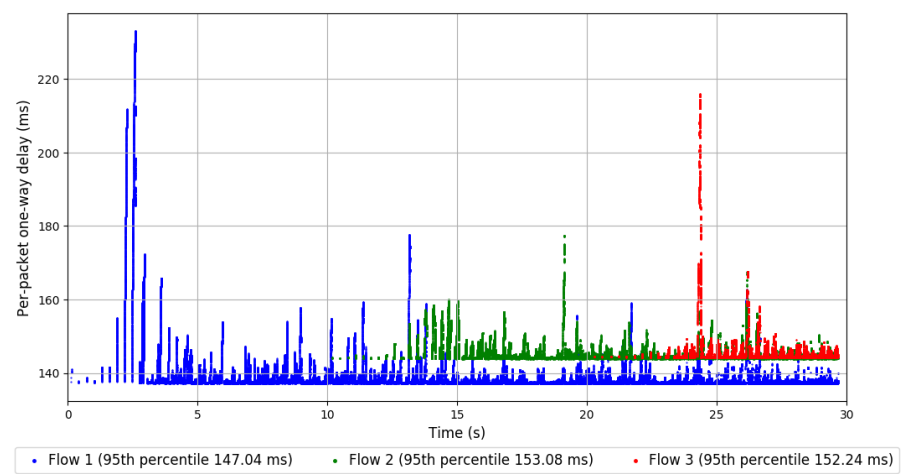
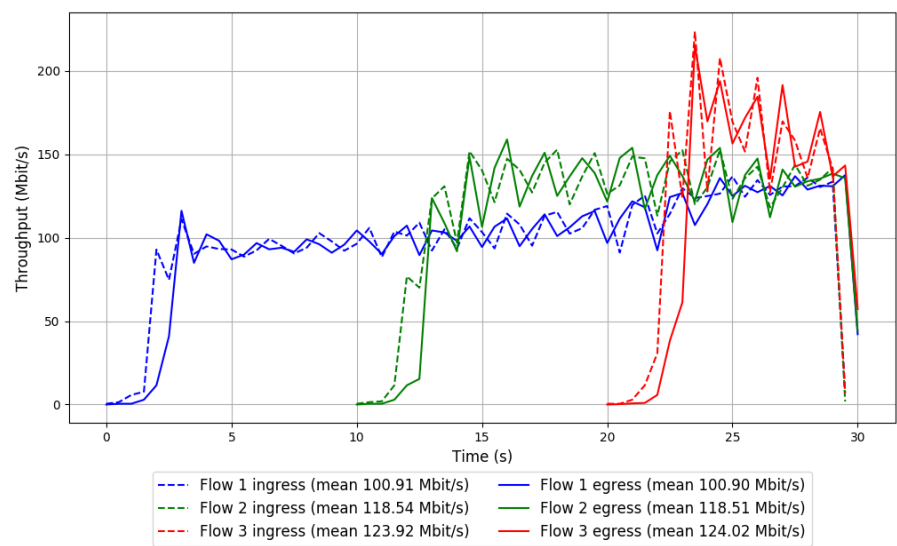
-- Flow 3:

Average throughput: 124.02 Mbit/s

95th percentile per-packet one-way delay: 152.236 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-12-02 05:54:08

End at: 2018-12-02 05:54:38

Local clock offset: 6.785 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-12-02 07:35:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.30 Mbit/s

95th percentile per-packet one-way delay: 163.125 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 117.39 Mbit/s

95th percentile per-packet one-way delay: 158.147 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 111.41 Mbit/s

95th percentile per-packet one-way delay: 165.783 ms

Loss rate: 0.08%

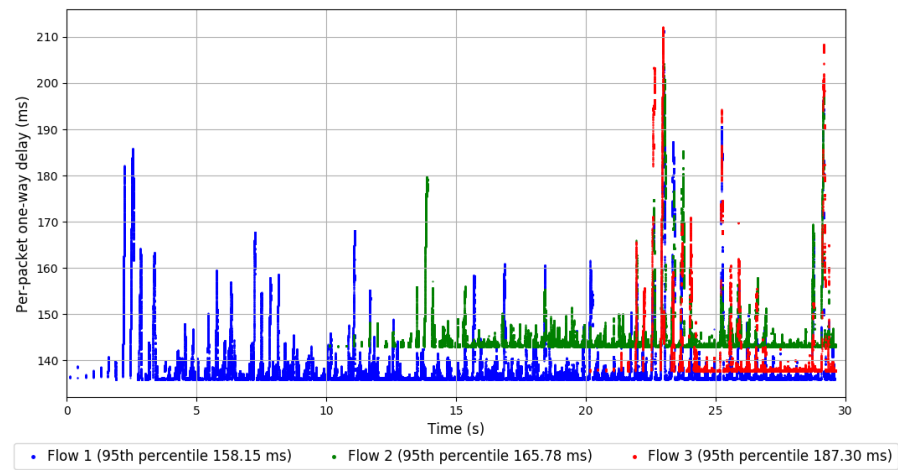
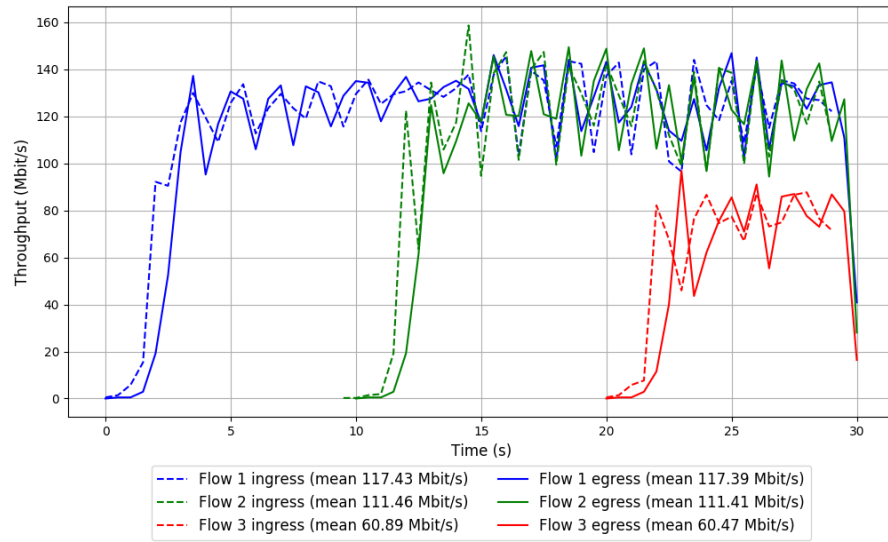
-- Flow 3:

Average throughput: 60.47 Mbit/s

95th percentile per-packet one-way delay: 187.296 ms

Loss rate: 0.68%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-12-02 06:25:37

End at: 2018-12-02 06:26:07

Local clock offset: 6.879 ms

Remote clock offset: 2.852 ms

Below is generated by plot.py at 2018-12-02 07:35:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.57 Mbit/s

95th percentile per-packet one-way delay: 162.394 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 104.54 Mbit/s

95th percentile per-packet one-way delay: 159.440 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 114.30 Mbit/s

95th percentile per-packet one-way delay: 172.026 ms

Loss rate: 0.22%

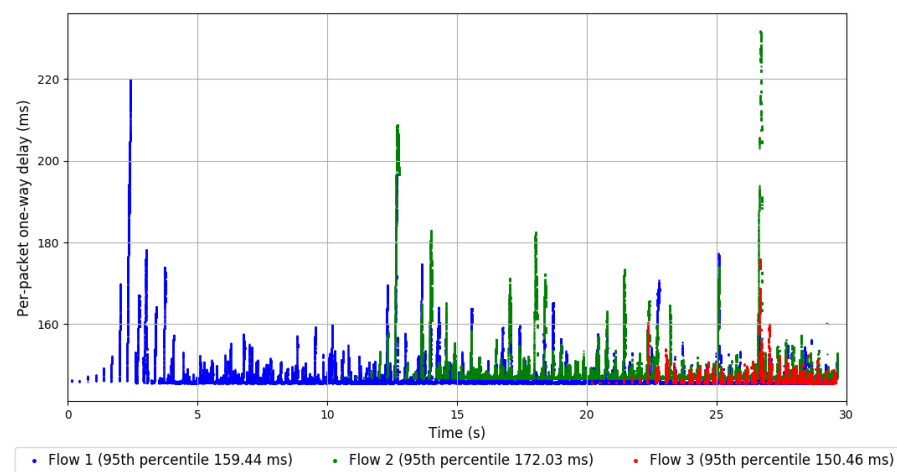
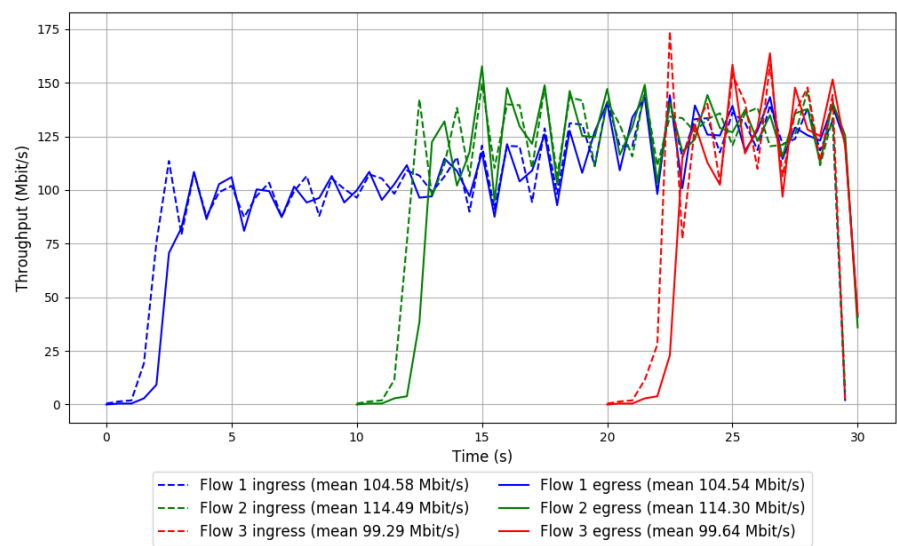
-- Flow 3:

Average throughput: 99.64 Mbit/s

95th percentile per-packet one-way delay: 150.456 ms

Loss rate: 0.47%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-12-02 06:57:04

End at: 2018-12-02 06:57:34

Local clock offset: -5.507 ms

Remote clock offset: 4.693 ms

Below is generated by plot.py at 2018-12-02 07:35:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.51 Mbit/s

95th percentile per-packet one-way delay: 179.717 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 81.25 Mbit/s

95th percentile per-packet one-way delay: 177.383 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 75.95 Mbit/s

95th percentile per-packet one-way delay: 165.736 ms

Loss rate: 0.00%

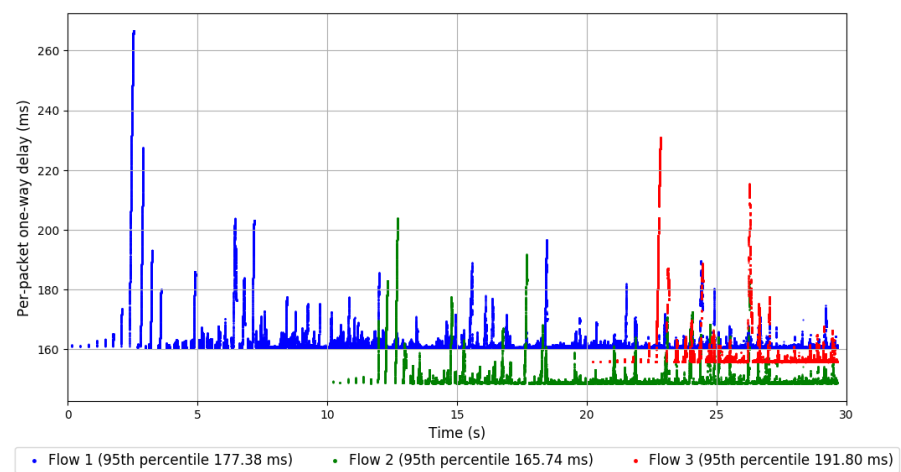
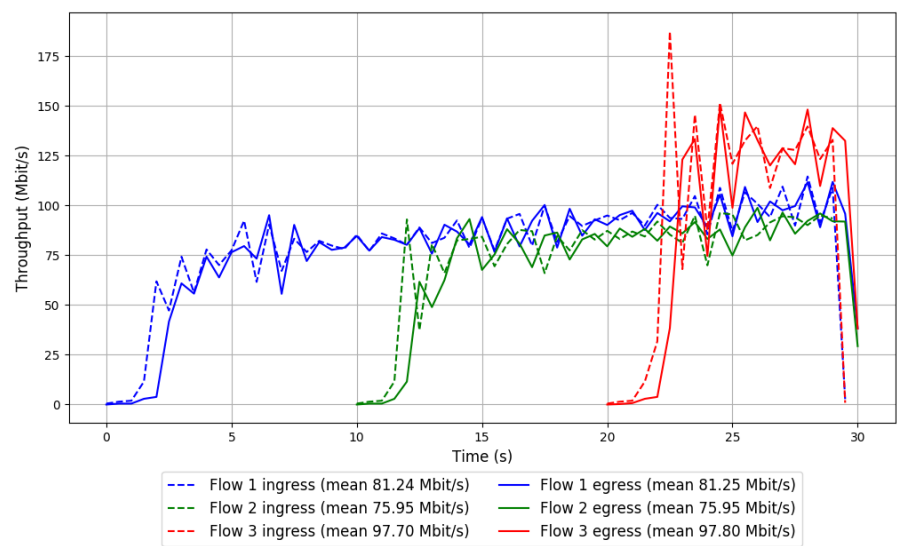
-- Flow 3:

Average throughput: 97.80 Mbit/s

95th percentile per-packet one-way delay: 191.804 ms

Loss rate: 0.05%

Run 5: Report of Indigo — Data Link

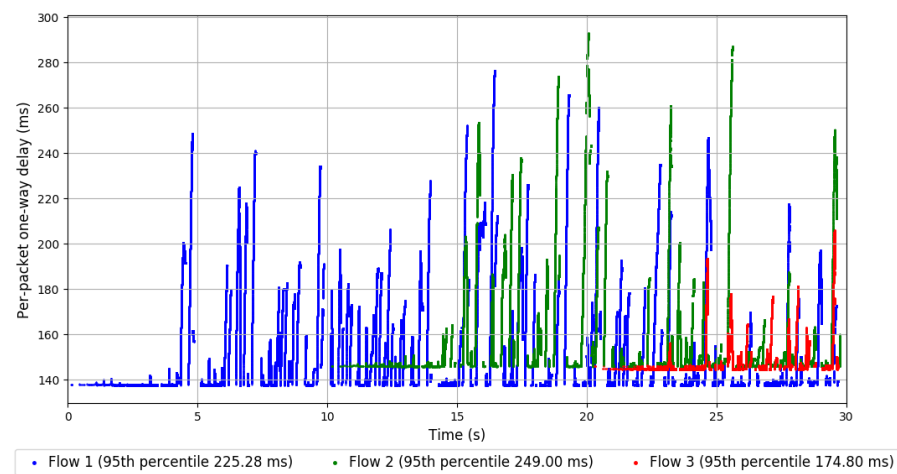
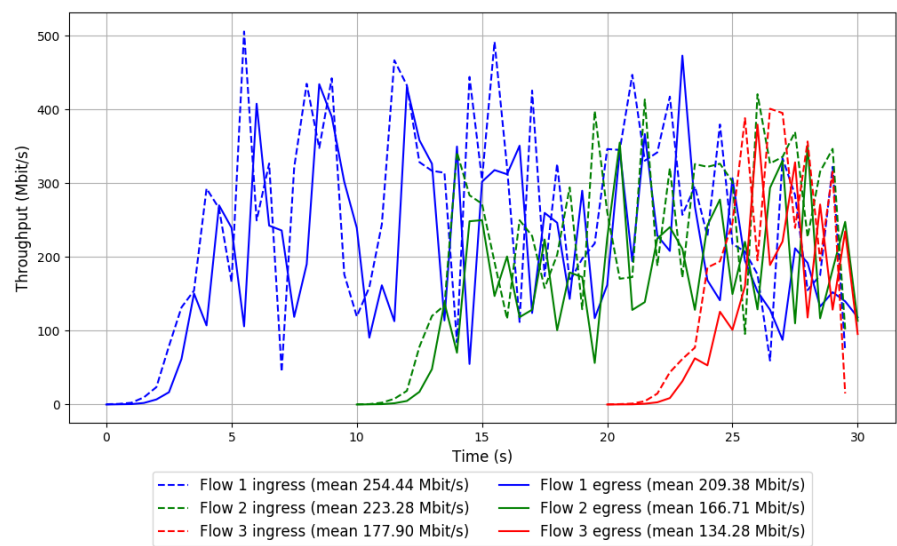


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-12-02 04:53:10
End at: 2018-12-02 04:53:40
Local clock offset: 6.651 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-12-02 07:38:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.42 Mbit/s
95th percentile per-packet one-way delay: 233.599 ms
Loss rate: 21.02%
-- Flow 1:
Average throughput: 209.38 Mbit/s
95th percentile per-packet one-way delay: 225.280 ms
Loss rate: 17.71%
-- Flow 2:
Average throughput: 166.71 Mbit/s
95th percentile per-packet one-way delay: 248.998 ms
Loss rate: 25.37%
-- Flow 3:
Average throughput: 134.28 Mbit/s
95th percentile per-packet one-way delay: 174.802 ms
Loss rate: 24.53%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:24:28

End at: 2018-12-02 05:24:58

Local clock offset: 7.058 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2018-12-02 07:38:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.65 Mbit/s

95th percentile per-packet one-way delay: 228.503 ms

Loss rate: 20.14%

-- Flow 1:

Average throughput: 201.65 Mbit/s

95th percentile per-packet one-way delay: 211.734 ms

Loss rate: 18.77%

-- Flow 2:

Average throughput: 188.29 Mbit/s

95th percentile per-packet one-way delay: 237.942 ms

Loss rate: 21.06%

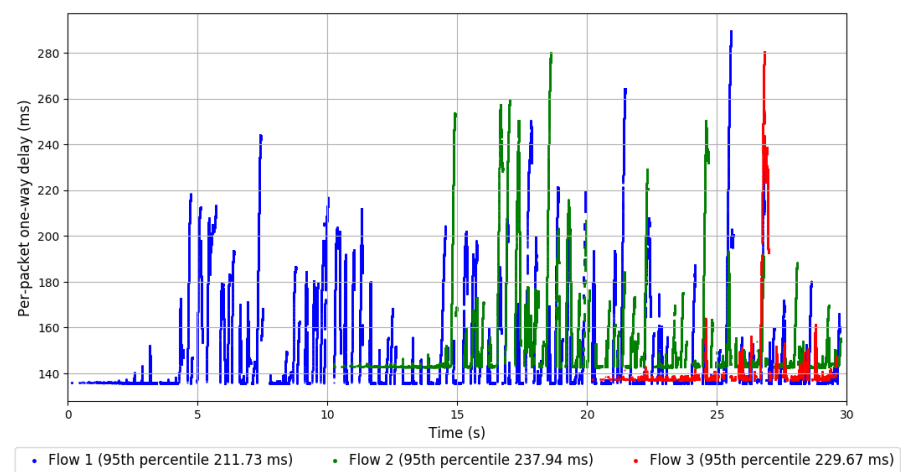
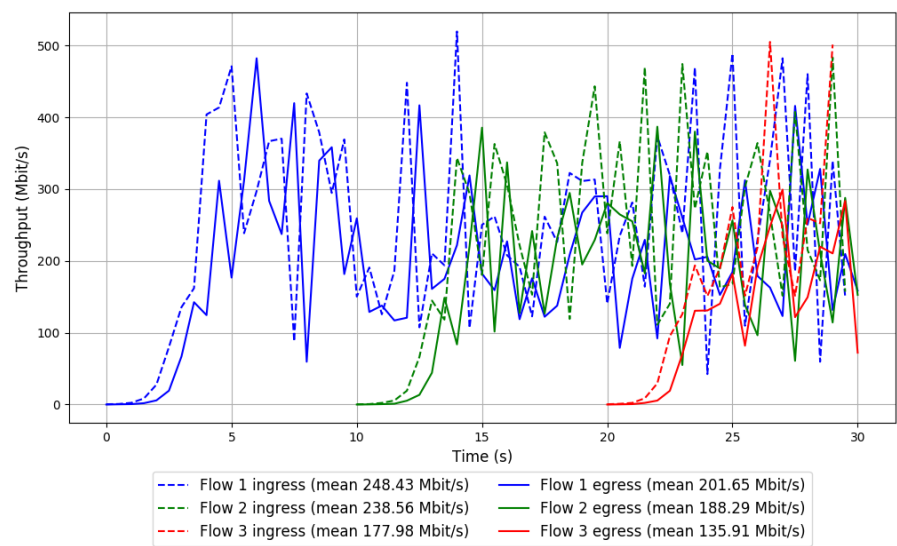
-- Flow 3:

Average throughput: 135.91 Mbit/s

95th percentile per-packet one-way delay: 229.673 ms

Loss rate: 23.56%

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



Run 3: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:55:51

End at: 2018-12-02 05:56:21

Local clock offset: 6.943 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-12-02 07:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.69 Mbit/s

95th percentile per-packet one-way delay: 219.581 ms

Loss rate: 19.47%

-- Flow 1:

Average throughput: 195.70 Mbit/s

95th percentile per-packet one-way delay: 217.884 ms

Loss rate: 16.74%

-- Flow 2:

Average throughput: 152.78 Mbit/s

95th percentile per-packet one-way delay: 230.072 ms

Loss rate: 22.41%

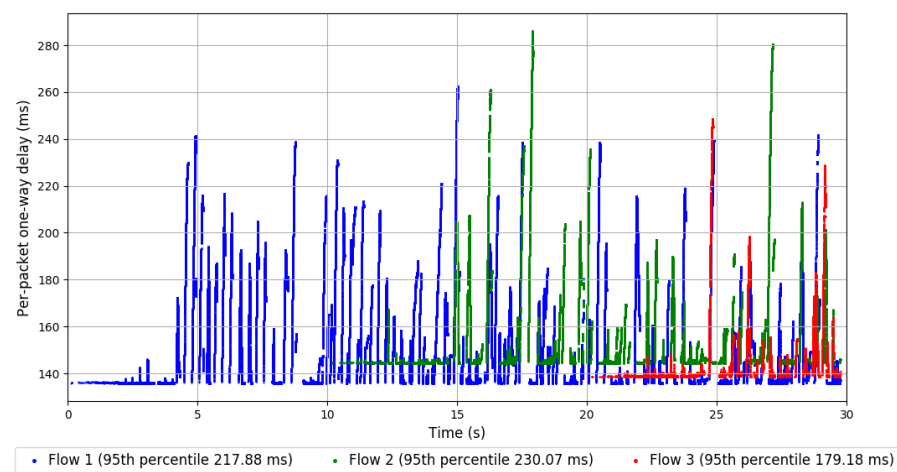
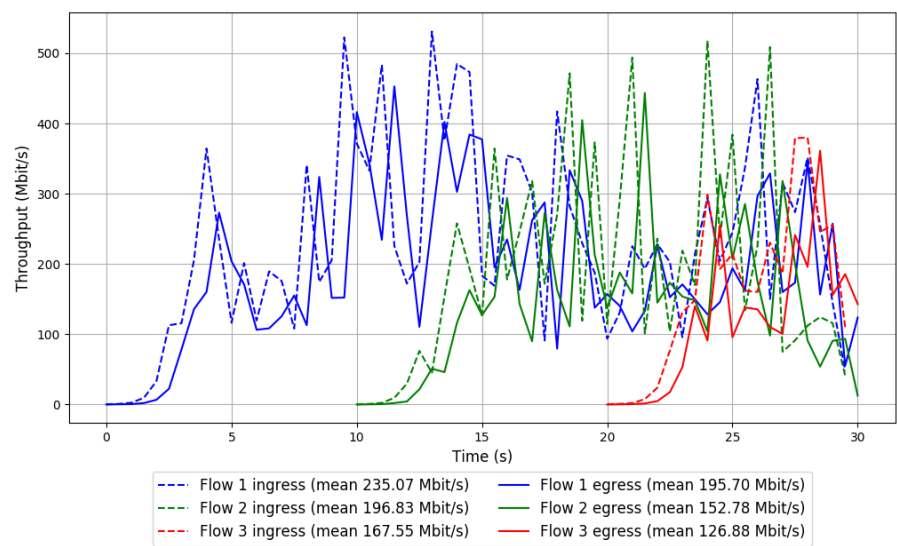
-- Flow 3:

Average throughput: 126.88 Mbit/s

95th percentile per-packet one-way delay: 179.183 ms

Loss rate: 24.27%

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



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:27:20

End at: 2018-12-02 06:27:50

Local clock offset: 6.879 ms

Remote clock offset: 3.117 ms

Below is generated by plot.py at 2018-12-02 07:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.57 Mbit/s

95th percentile per-packet one-way delay: 225.768 ms

Loss rate: 20.07%

-- Flow 1:

Average throughput: 192.83 Mbit/s

95th percentile per-packet one-way delay: 218.002 ms

Loss rate: 18.06%

-- Flow 2:

Average throughput: 171.30 Mbit/s

95th percentile per-packet one-way delay: 243.855 ms

Loss rate: 22.35%

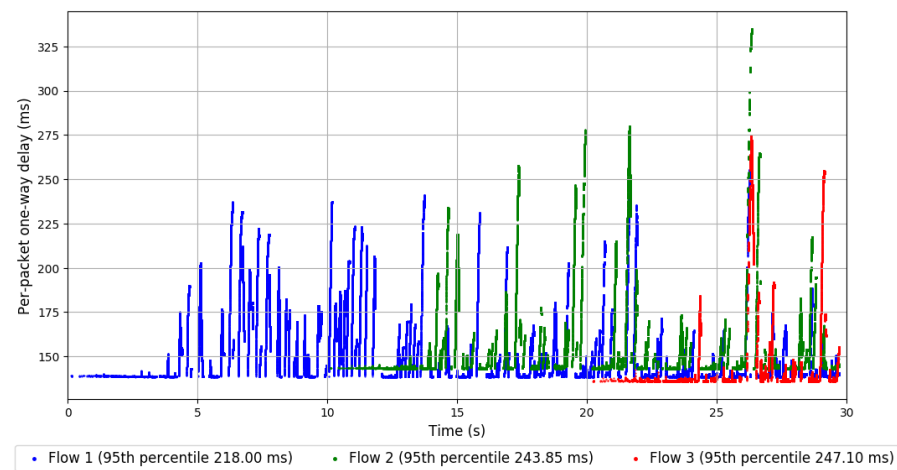
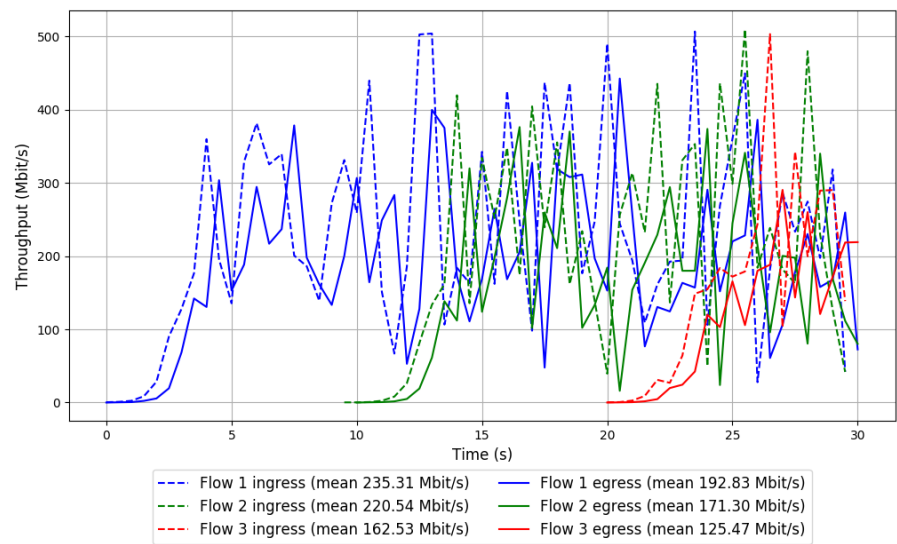
-- Flow 3:

Average throughput: 125.47 Mbit/s

95th percentile per-packet one-way delay: 247.103 ms

Loss rate: 22.80%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:58:43

End at: 2018-12-02 06:59:13

Local clock offset: -5.344 ms

Remote clock offset: 4.873 ms

Below is generated by plot.py at 2018-12-02 07:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.48 Mbit/s

95th percentile per-packet one-way delay: 246.391 ms

Loss rate: 20.03%

-- Flow 1:

Average throughput: 196.96 Mbit/s

95th percentile per-packet one-way delay: 247.617 ms

Loss rate: 17.99%

-- Flow 2:

Average throughput: 188.57 Mbit/s

95th percentile per-packet one-way delay: 253.851 ms

Loss rate: 21.18%

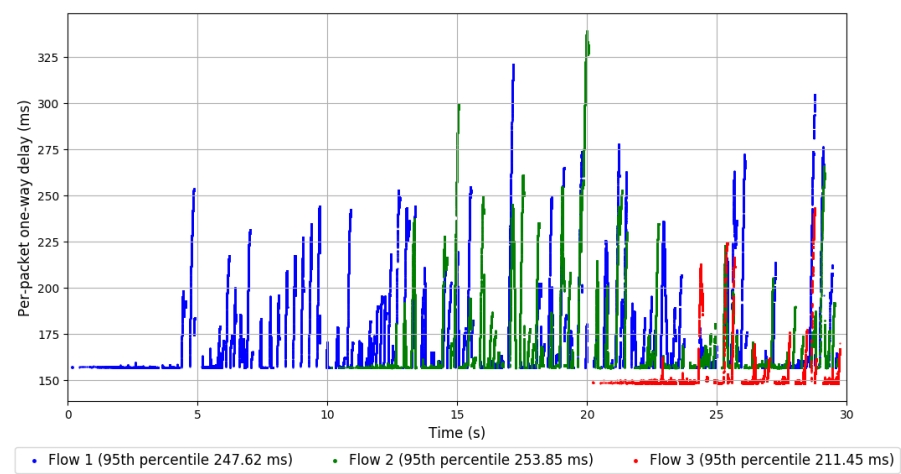
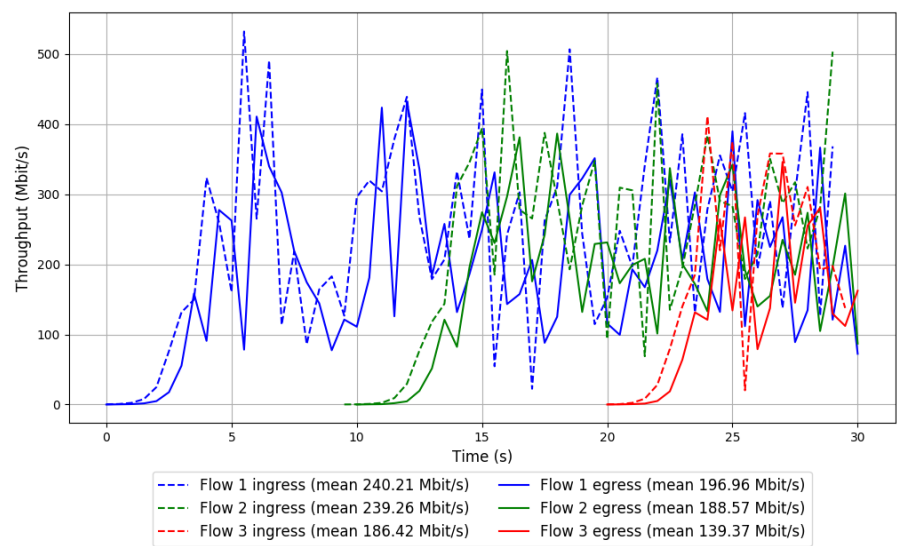
-- Flow 3:

Average throughput: 139.37 Mbit/s

95th percentile per-packet one-way delay: 211.448 ms

Loss rate: 25.17%

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

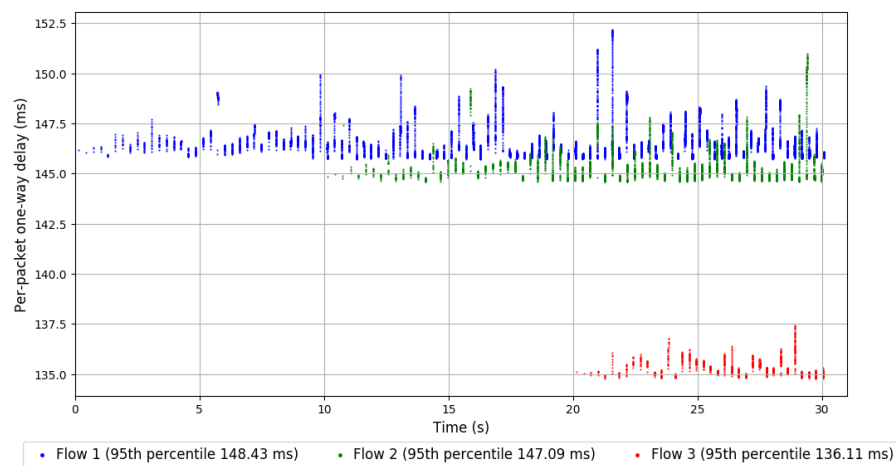
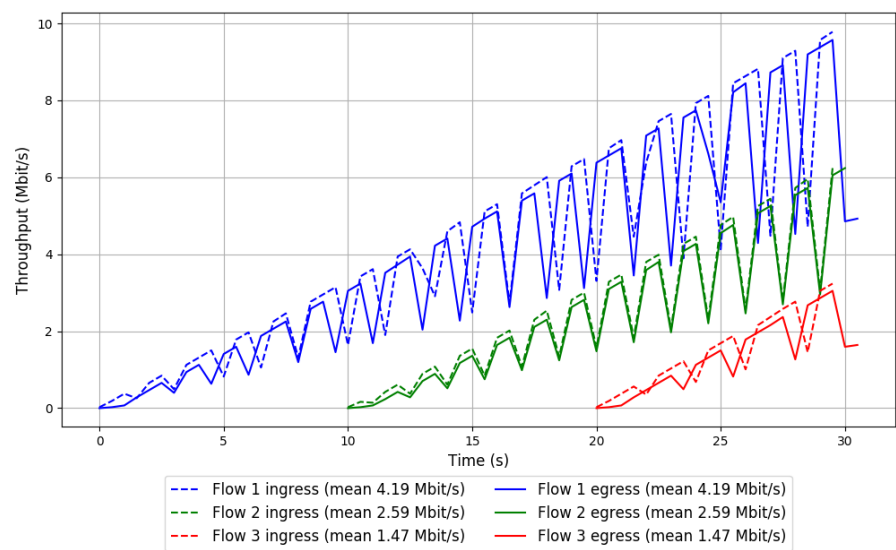


```
Run 1: Statistics of LEDBAT

Start at: 2018-12-02 04:54:58
End at: 2018-12-02 04:55:28
Local clock offset: 6.84 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-12-02 07:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 148.210 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 148.430 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 147.087 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 136.109 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-12-02 05:26:16

End at: 2018-12-02 05:26:46

Local clock offset: 6.95 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-12-02 07:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 145.556 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 141.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 139.126 ms

Loss rate: 0.00%

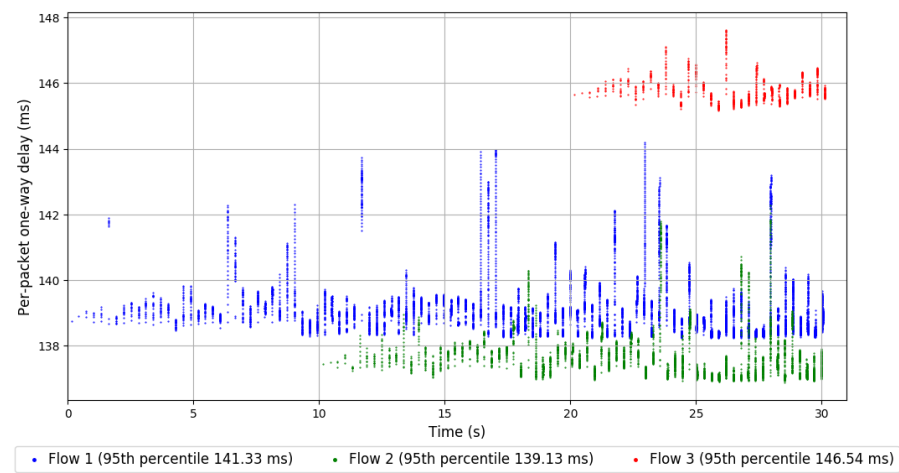
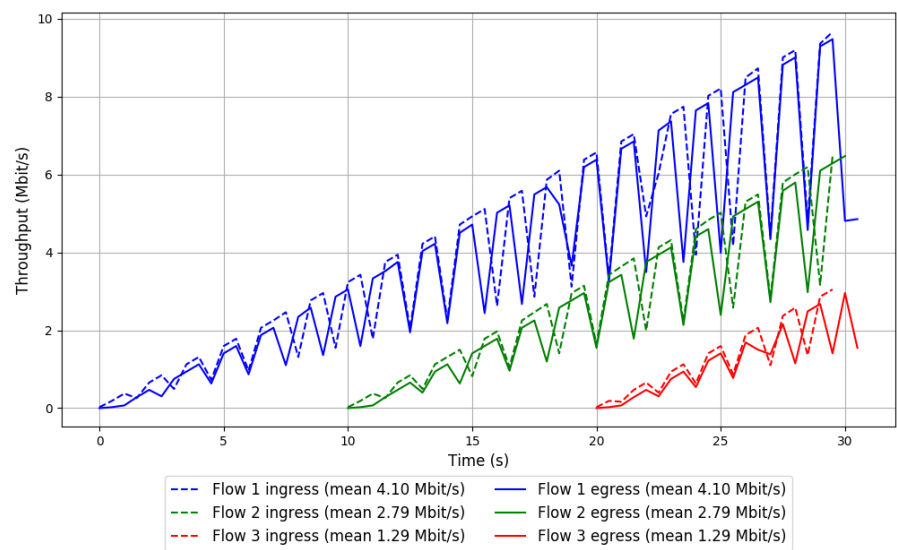
-- Flow 3:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 146.540 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-12-02 05:57:37

End at: 2018-12-02 05:58:07

Local clock offset: 6.895 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-12-02 07:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 146.454 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 146.854 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 137.633 ms

Loss rate: 0.00%

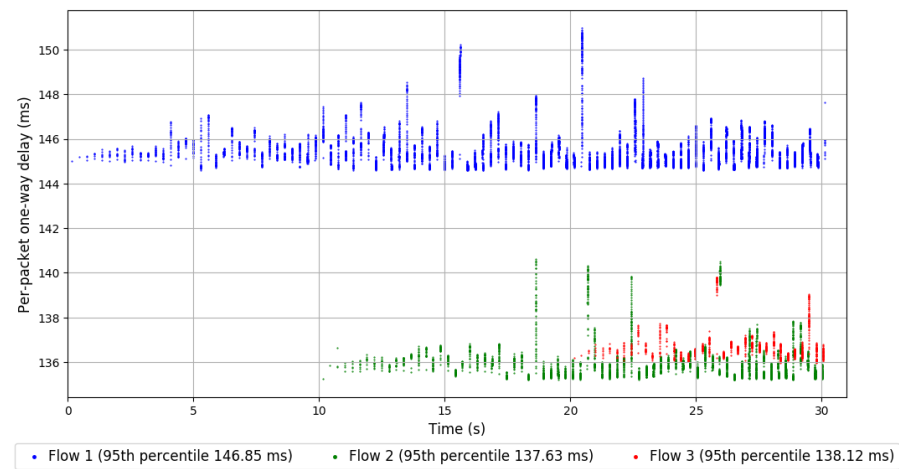
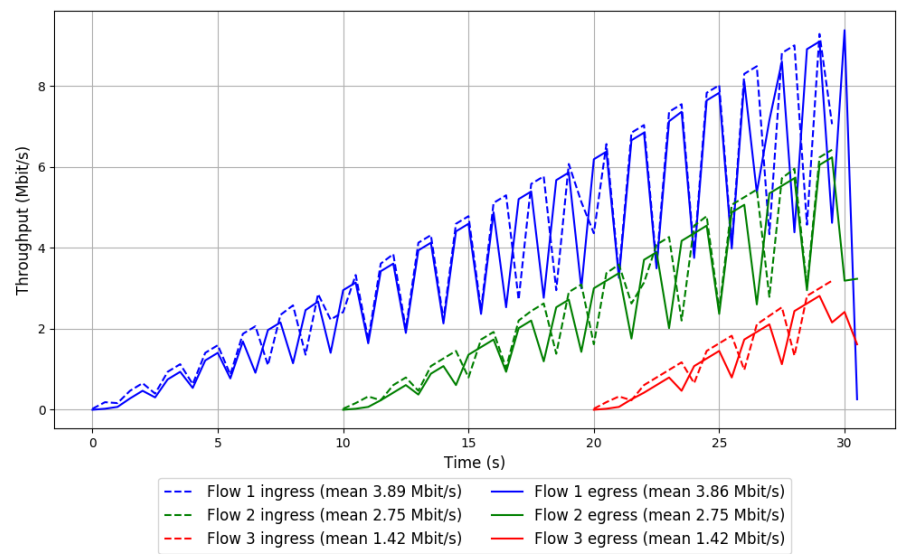
-- Flow 3:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 138.119 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

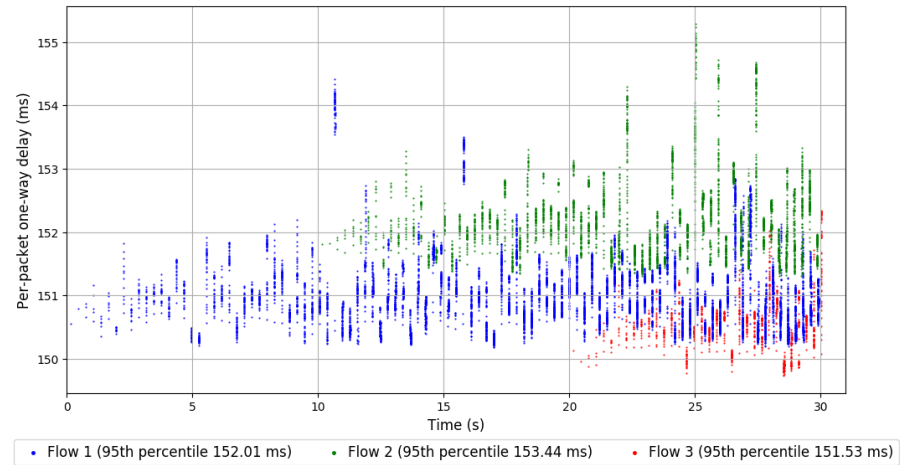
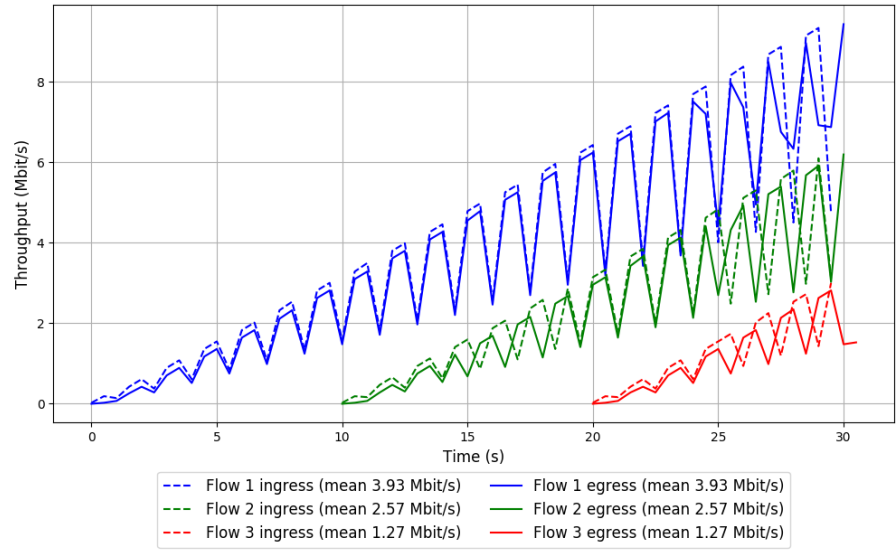


Run 4: Statistics of LEDBAT

Start at: 2018-12-02 06:29:07
End at: 2018-12-02 06:29:37
Local clock offset: -0.275 ms
Remote clock offset: 3.191 ms

Below is generated by plot.py at 2018-12-02 07:39:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 152.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 152.014 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 153.438 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 151.534 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-02 07:00:31

End at: 2018-12-02 07:01:01

Local clock offset: 6.832 ms

Remote clock offset: 4.859 ms

Below is generated by plot.py at 2018-12-02 07:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 145.149 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 145.642 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 136.574 ms

Loss rate: 0.00%

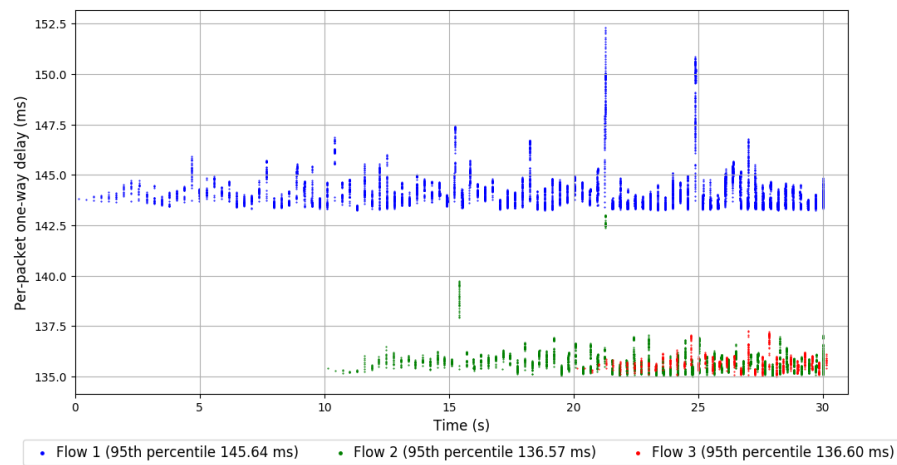
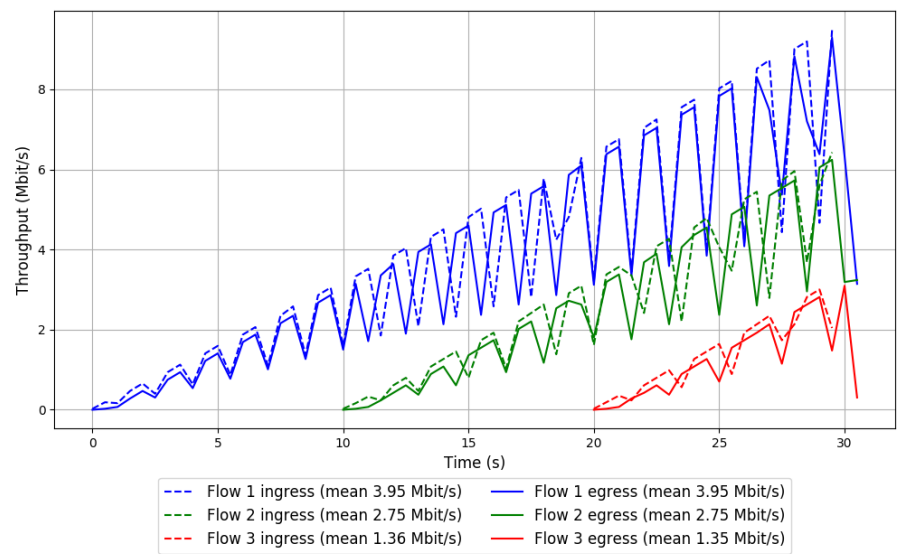
-- Flow 3:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 136.600 ms

Loss rate: 0.60%

Run 5: Report of LEDBAT — Data Link

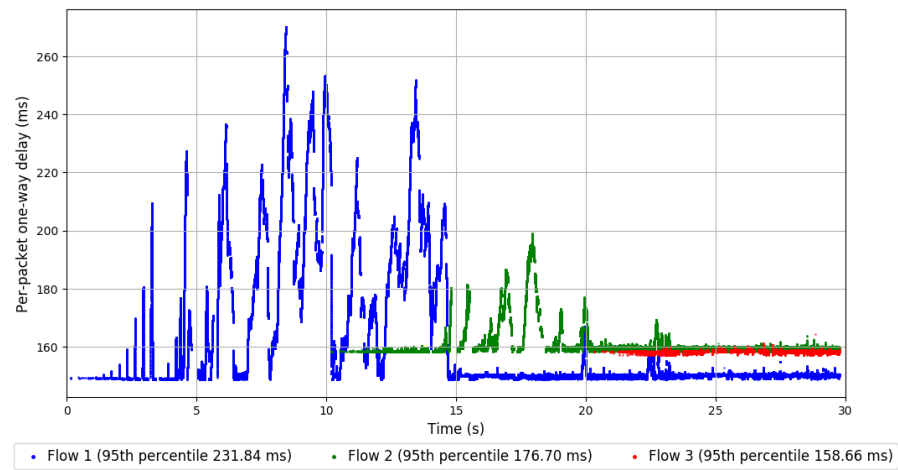
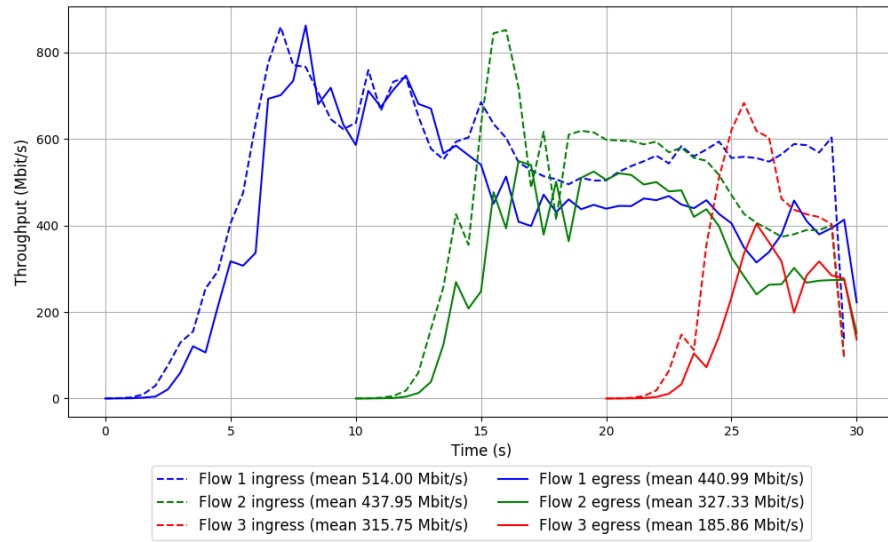


Run 1: Statistics of Indigo-Muses

Start at: 2018-12-02 05:06:25
End at: 2018-12-02 05:06:55
Local clock offset: -3.903 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-12-02 07:43:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 716.69 Mbit/s
95th percentile per-packet one-way delay: 216.056 ms
Loss rate: 20.77%
-- Flow 1:
Average throughput: 440.99 Mbit/s
95th percentile per-packet one-way delay: 231.845 ms
Loss rate: 14.21%
-- Flow 2:
Average throughput: 327.33 Mbit/s
95th percentile per-packet one-way delay: 176.702 ms
Loss rate: 25.29%
-- Flow 3:
Average throughput: 185.86 Mbit/s
95th percentile per-packet one-way delay: 158.661 ms
Loss rate: 41.20%

Run 1: Report of Indigo-Muses — Data Link



Run 2: Statistics of Indigo-Muses

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

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

Local clock offset: 6.122 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-12-02 07:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 716.26 Mbit/s

95th percentile per-packet one-way delay: 193.085 ms

Loss rate: 19.82%

-- Flow 1:

Average throughput: 399.73 Mbit/s

95th percentile per-packet one-way delay: 197.521 ms

Loss rate: 15.17%

-- Flow 2:

Average throughput: 390.66 Mbit/s

95th percentile per-packet one-way delay: 177.410 ms

Loss rate: 20.28%

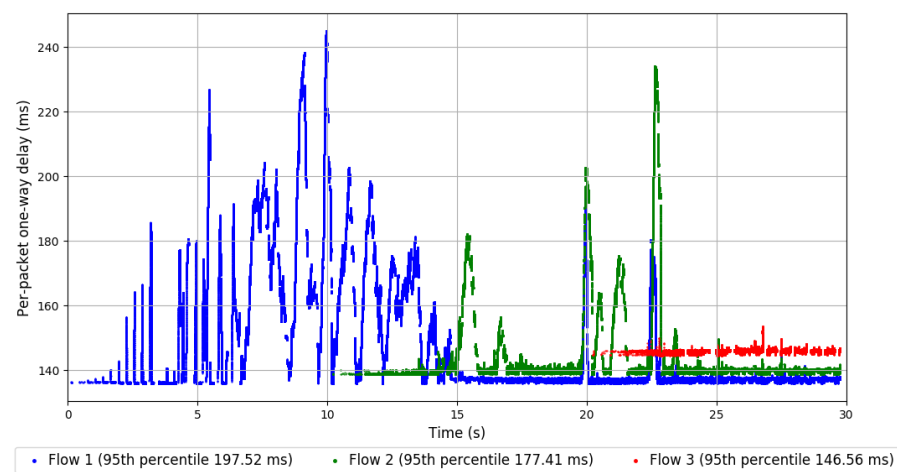
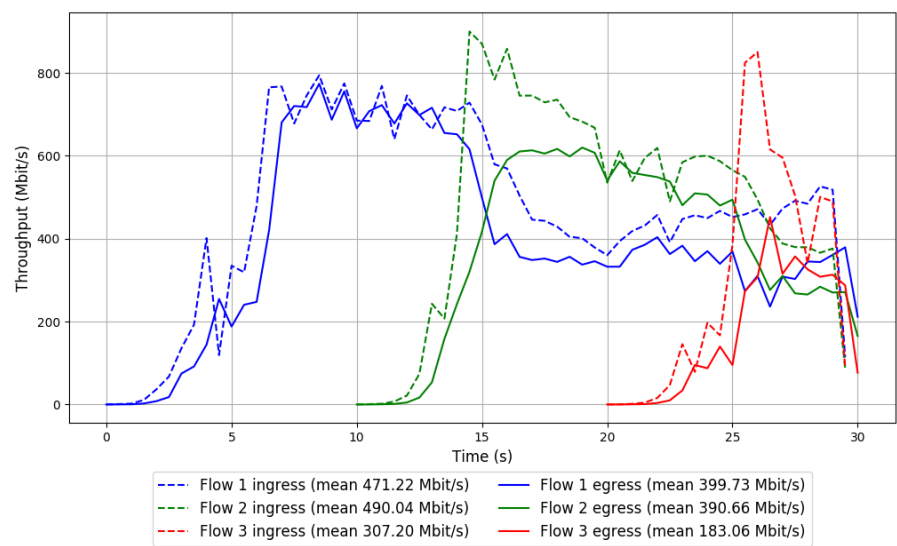
-- Flow 3:

Average throughput: 183.06 Mbit/s

95th percentile per-packet one-way delay: 146.564 ms

Loss rate: 40.46%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-12-02 06:09:13

End at: 2018-12-02 06:09:43

Local clock offset: 7.516 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2018-12-02 07:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 710.19 Mbit/s

95th percentile per-packet one-way delay: 205.978 ms

Loss rate: 20.39%

-- Flow 1:

Average throughput: 441.53 Mbit/s

95th percentile per-packet one-way delay: 214.422 ms

Loss rate: 14.00%

-- Flow 2:

Average throughput: 309.76 Mbit/s

95th percentile per-packet one-way delay: 170.027 ms

Loss rate: 25.61%

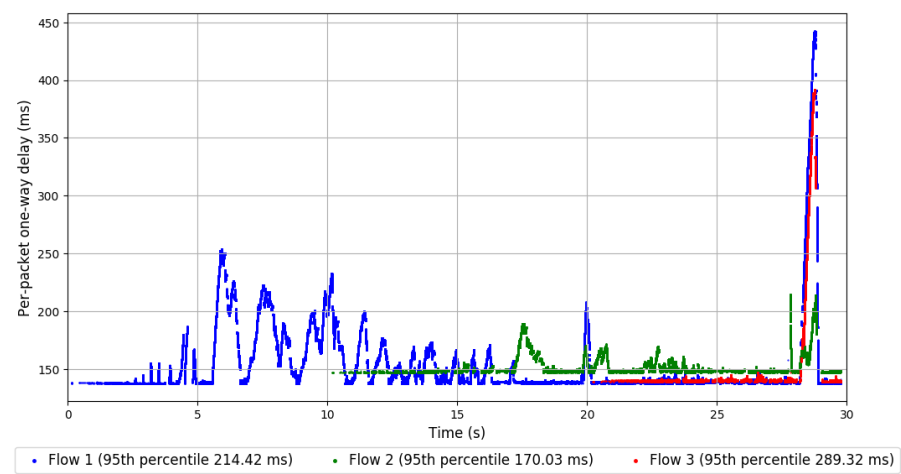
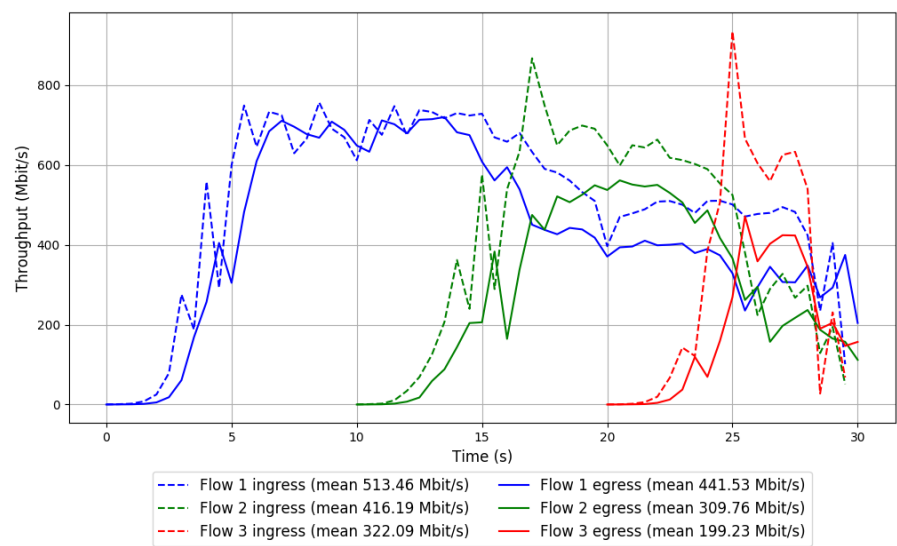
-- Flow 3:

Average throughput: 199.23 Mbit/s

95th percentile per-packet one-way delay: 289.322 ms

Loss rate: 38.17%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-12-02 06:40:46

End at: 2018-12-02 06:41:16

Local clock offset: 0.408 ms

Remote clock offset: 3.965 ms

Below is generated by plot.py at 2018-12-02 07:47:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 719.54 Mbit/s

95th percentile per-packet one-way delay: 216.279 ms

Loss rate: 16.94%

-- Flow 1:

Average throughput: 405.11 Mbit/s

95th percentile per-packet one-way delay: 224.587 ms

Loss rate: 11.88%

-- Flow 2:

Average throughput: 391.89 Mbit/s

95th percentile per-packet one-way delay: 200.395 ms

Loss rate: 18.71%

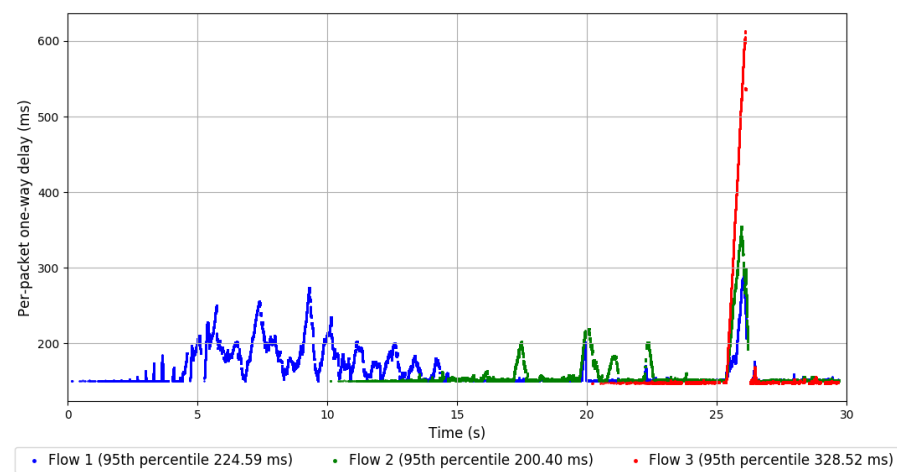
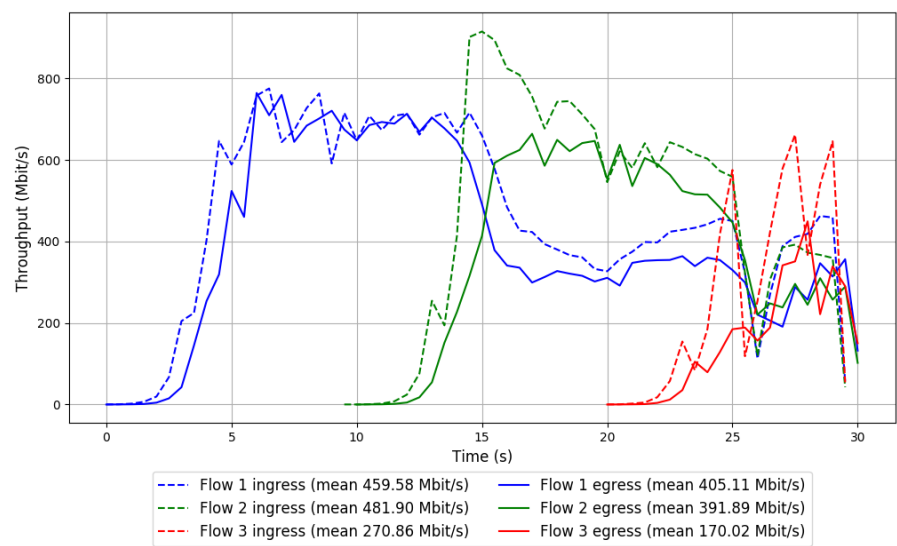
-- Flow 3:

Average throughput: 170.02 Mbit/s

95th percentile per-packet one-way delay: 328.525 ms

Loss rate: 37.22%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-12-02 07:12:10

End at: 2018-12-02 07:12:40

Local clock offset: 6.669 ms

Remote clock offset: 5.393 ms

Below is generated by plot.py at 2018-12-02 07:47:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 713.29 Mbit/s

95th percentile per-packet one-way delay: 197.495 ms

Loss rate: 22.58%

-- Flow 1:

Average throughput: 436.54 Mbit/s

95th percentile per-packet one-way delay: 205.562 ms

Loss rate: 16.33%

-- Flow 2:

Average throughput: 326.21 Mbit/s

95th percentile per-packet one-way delay: 148.146 ms

Loss rate: 26.22%

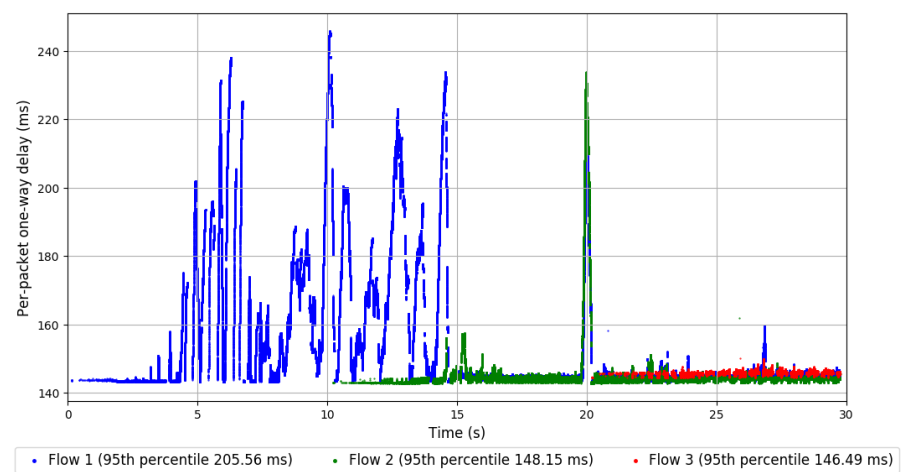
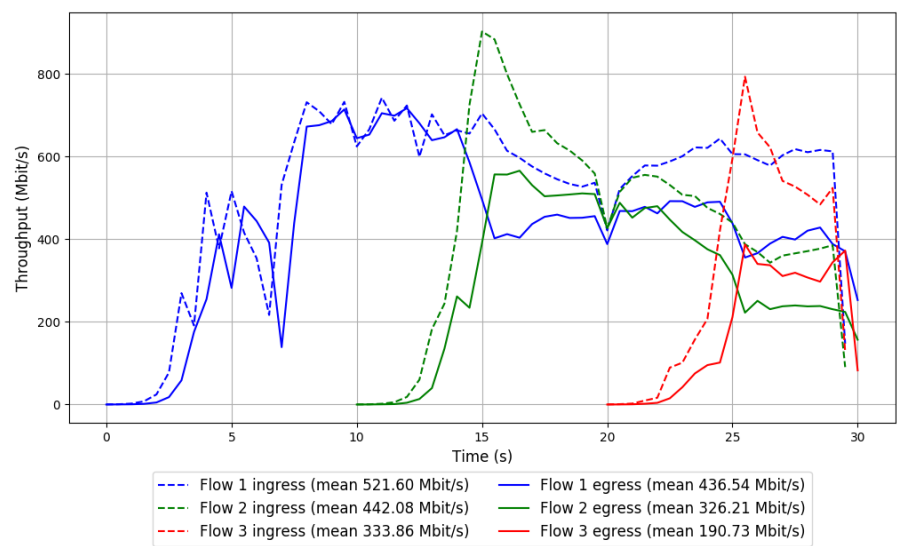
-- Flow 3:

Average throughput: 190.73 Mbit/s

95th percentile per-packet one-way delay: 146.490 ms

Loss rate: 42.92%

Run 5: Report of Indigo-Muses — Data Link

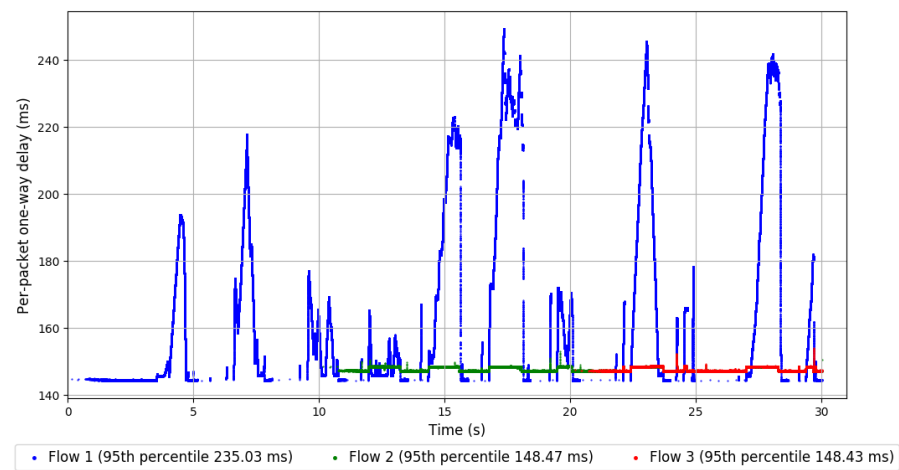
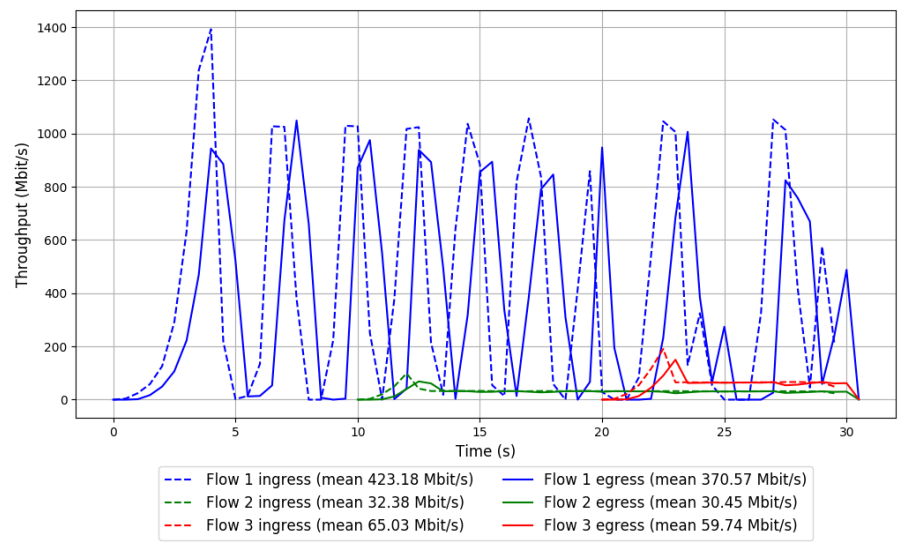


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-02 05:01:05
End at: 2018-12-02 05:01:35
Local clock offset: 7.11 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-12-02 07:47:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.44 Mbit/s
95th percentile per-packet one-way delay: 233.986 ms
Loss rate: 11.96%
-- Flow 1:
Average throughput: 370.57 Mbit/s
95th percentile per-packet one-way delay: 235.032 ms
Loss rate: 12.45%
-- Flow 2:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 148.475 ms
Loss rate: 6.01%
-- Flow 3:
Average throughput: 59.74 Mbit/s
95th percentile per-packet one-way delay: 148.425 ms
Loss rate: 8.24%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-02 05:32:25

End at: 2018-12-02 05:32:55

Local clock offset: -0.574 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2018-12-02 07:47:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 660.41 Mbit/s

95th percentile per-packet one-way delay: 155.354 ms

Loss rate: 4.36%

-- Flow 1:

Average throughput: 453.54 Mbit/s

95th percentile per-packet one-way delay: 155.892 ms

Loss rate: 3.84%

-- Flow 2:

Average throughput: 253.57 Mbit/s

95th percentile per-packet one-way delay: 151.352 ms

Loss rate: 5.42%

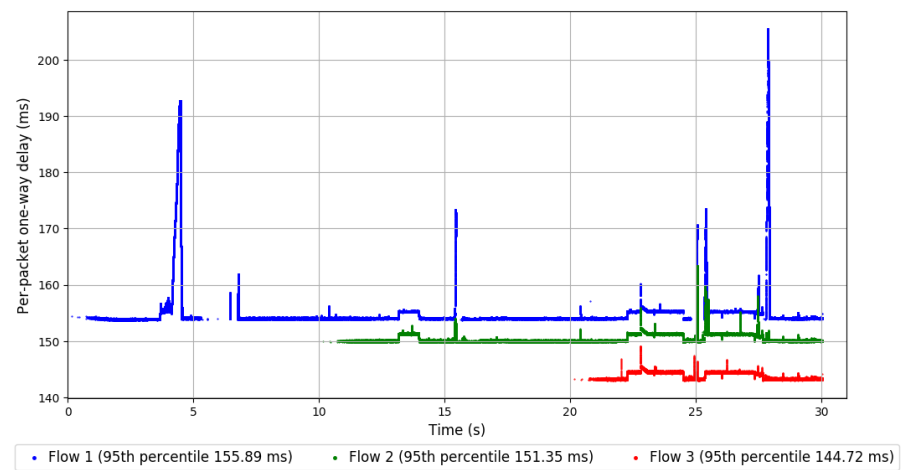
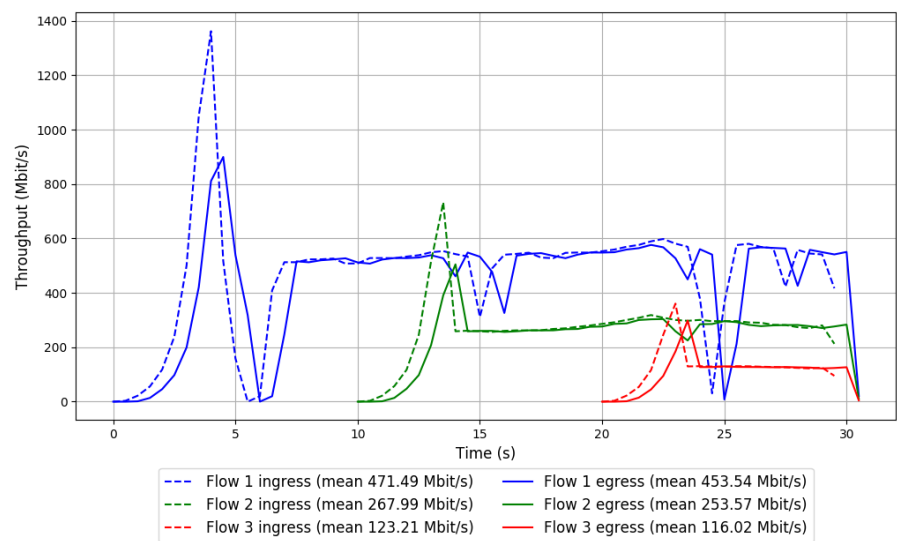
-- Flow 3:

Average throughput: 116.02 Mbit/s

95th percentile per-packet one-way delay: 144.720 ms

Loss rate: 5.82%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-12-02 06:03:47

End at: 2018-12-02 06:04:17

Local clock offset: 7.39 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-12-02 07:47:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 655.65 Mbit/s

95th percentile per-packet one-way delay: 148.429 ms

Loss rate: 2.92%

-- Flow 1:

Average throughput: 459.46 Mbit/s

95th percentile per-packet one-way delay: 148.952 ms

Loss rate: 2.55%

-- Flow 2:

Average throughput: 263.84 Mbit/s

95th percentile per-packet one-way delay: 148.417 ms

Loss rate: 3.79%

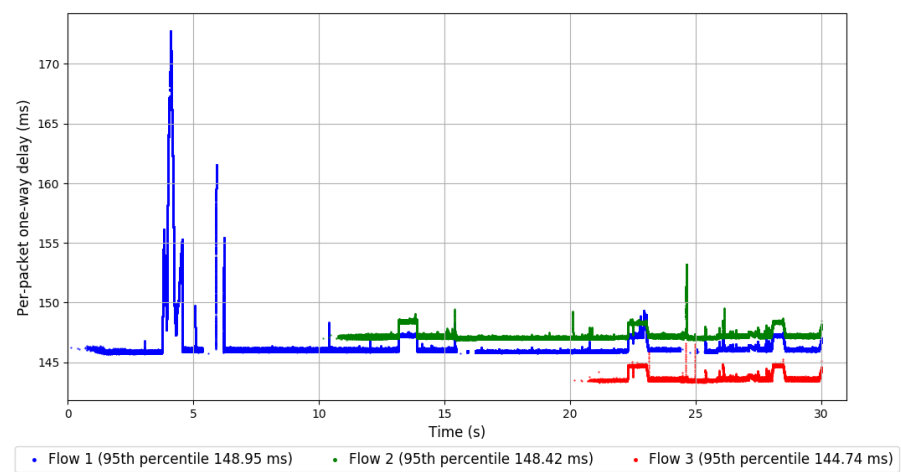
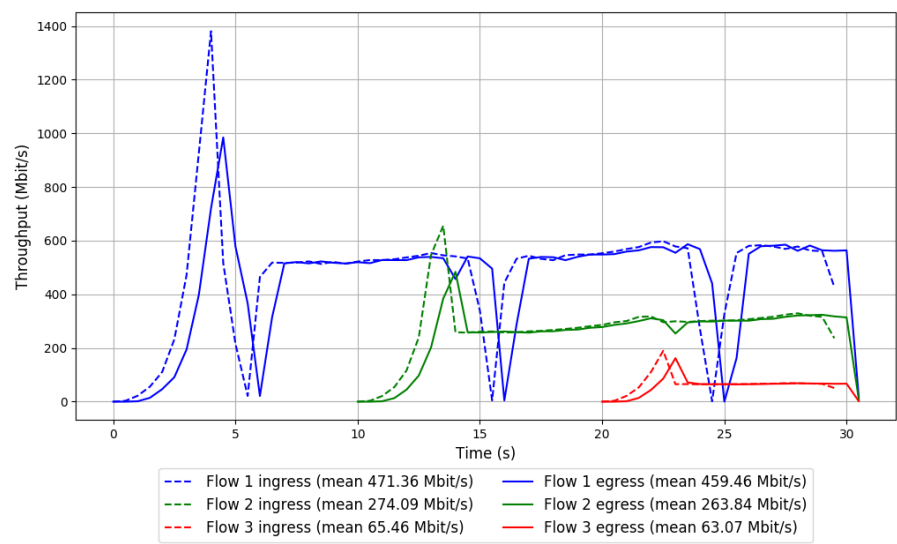
-- Flow 3:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 144.742 ms

Loss rate: 3.71%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-12-02 06:35:15

End at: 2018-12-02 06:35:45

Local clock offset: 6.479 ms

Remote clock offset: 3.563 ms

Below is generated by plot.py at 2018-12-02 07:51:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 645.54 Mbit/s

95th percentile per-packet one-way delay: 152.242 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 458.99 Mbit/s

95th percentile per-packet one-way delay: 171.982 ms

Loss rate: 3.98%

-- Flow 2:

Average throughput: 264.23 Mbit/s

95th percentile per-packet one-way delay: 138.876 ms

Loss rate: 3.13%

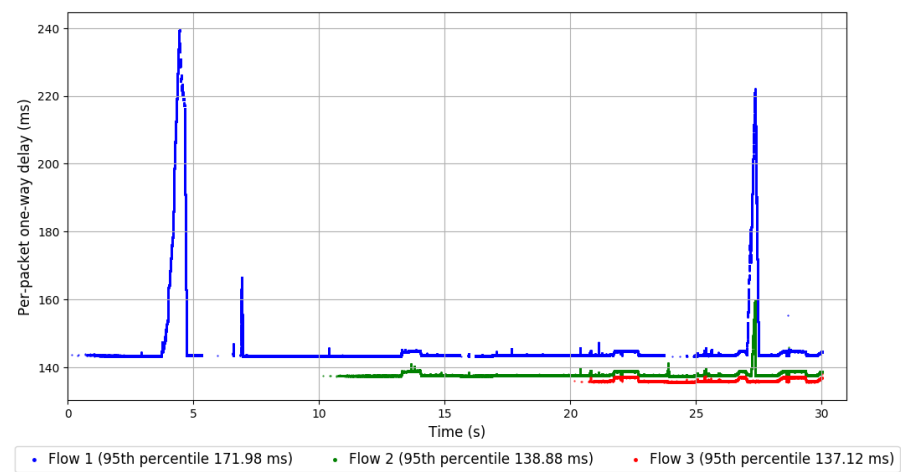
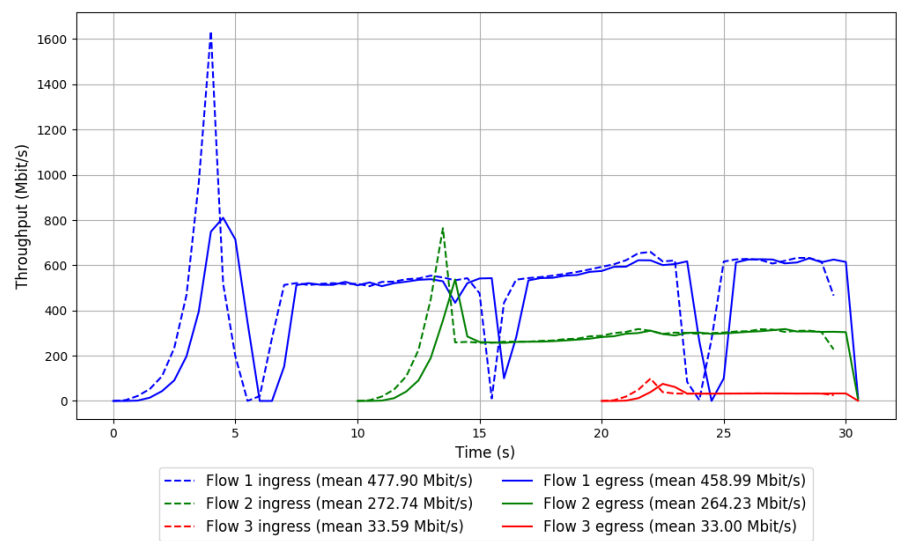
-- Flow 3:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 137.119 ms

Loss rate: 1.74%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-12-02 07:06:39

End at: 2018-12-02 07:07:09

Local clock offset: -2.165 ms

Remote clock offset: 5.184 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 650.03 Mbit/s

95th percentile per-packet one-way delay: 155.039 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 450.51 Mbit/s

95th percentile per-packet one-way delay: 157.838 ms

Loss rate: 3.61%

-- Flow 2:

Average throughput: 268.69 Mbit/s

95th percentile per-packet one-way delay: 146.709 ms

Loss rate: 4.04%

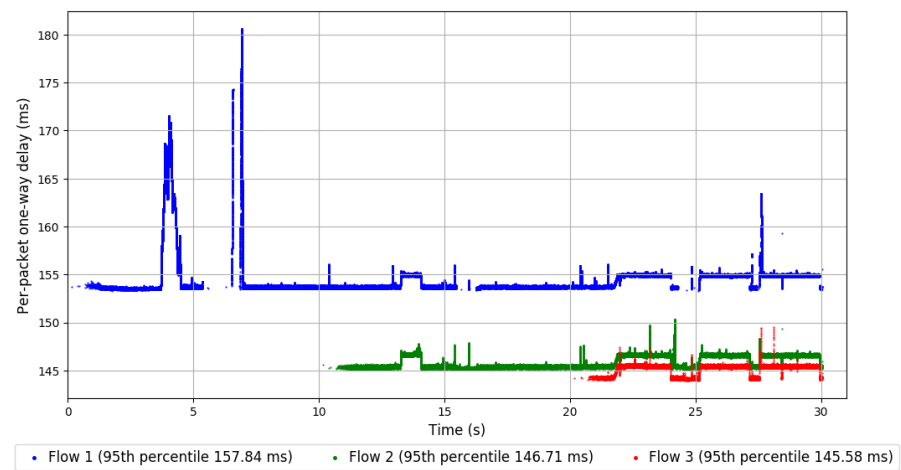
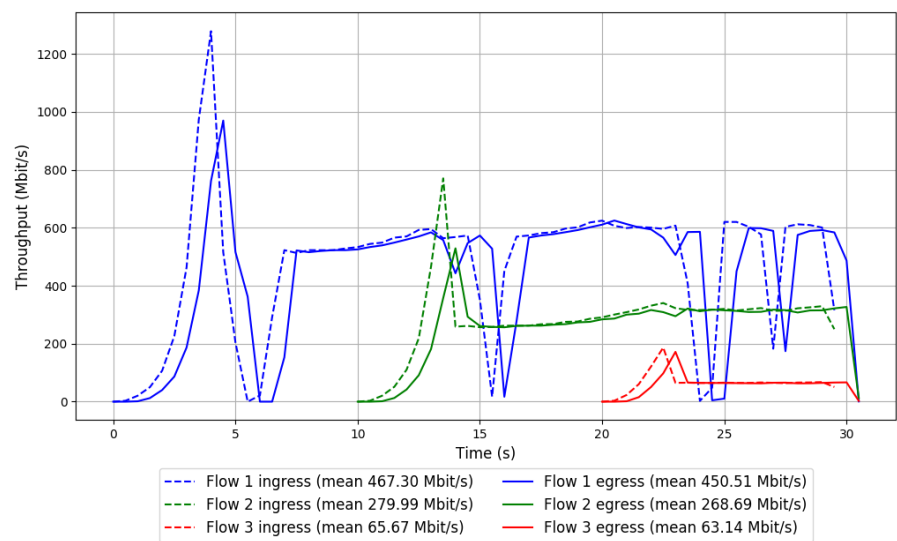
-- Flow 3:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 145.581 ms

Loss rate: 3.84%

Run 5: Report of PCC-Allegro — Data Link

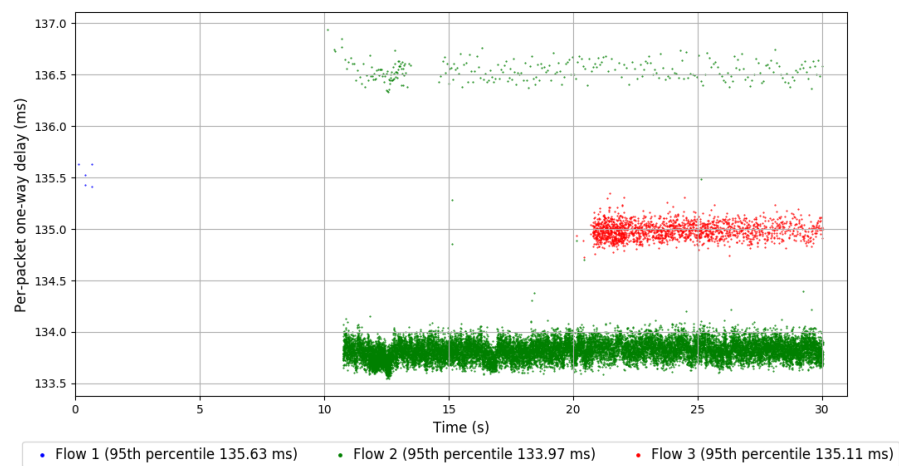
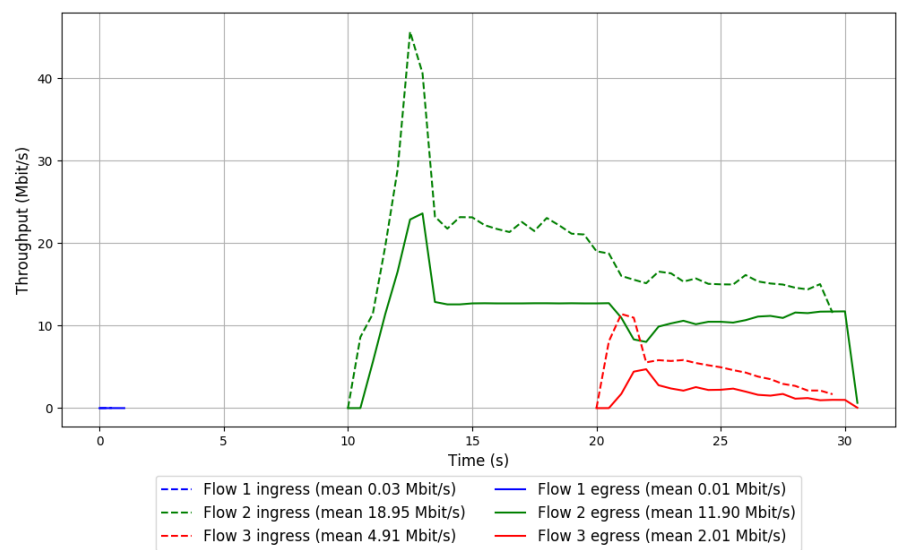


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-02 04:56:25
End at: 2018-12-02 04:56:55
Local clock offset: 8.063 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-12-02 07:52:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 134.990 ms
Loss rate: 39.72%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 135.631 ms
Loss rate: 70.59%
-- Flow 2:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 133.972 ms
Loss rate: 37.24%
-- Flow 3:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 135.113 ms
Loss rate: 58.97%
```

Run 1: Report of PCC-Expr — Data Link

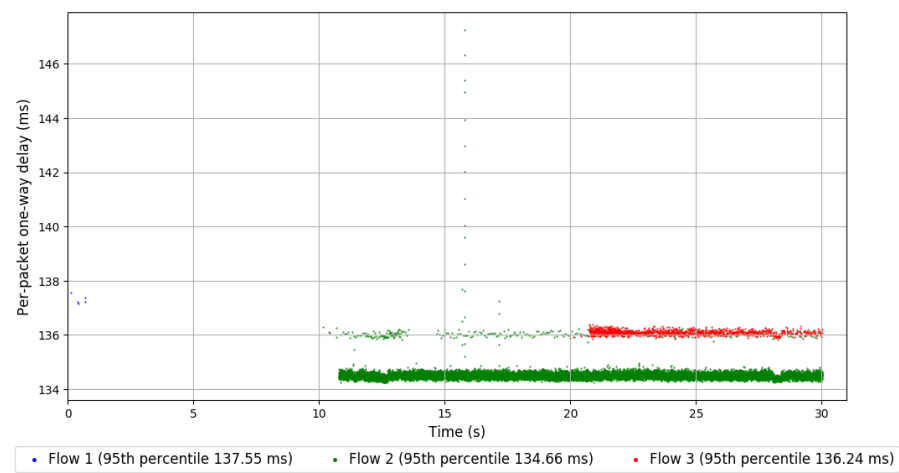
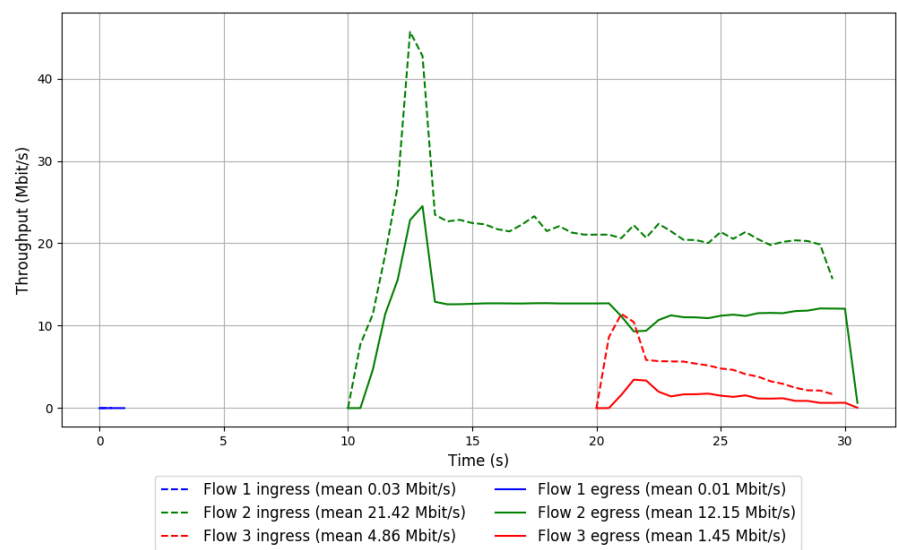


```
Run 2: Statistics of PCC-Expr

Start at: 2018-12-02 05:27:44
End at: 2018-12-02 05:28:14
Local clock offset: 6.812 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-12-02 07:52:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 136.032 ms
Loss rate: 45.99%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 137.552 ms
Loss rate: 70.59%
-- Flow 2:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 134.658 ms
Loss rate: 43.27%
-- Flow 3:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 136.240 ms
Loss rate: 70.17%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

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

End at: 2018-12-02 05:59:35

Local clock offset: 7.228 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 137.396 ms

Loss rate: 39.73%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 136.448 ms

Loss rate: 70.59%

-- Flow 2:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 136.038 ms

Loss rate: 37.26%

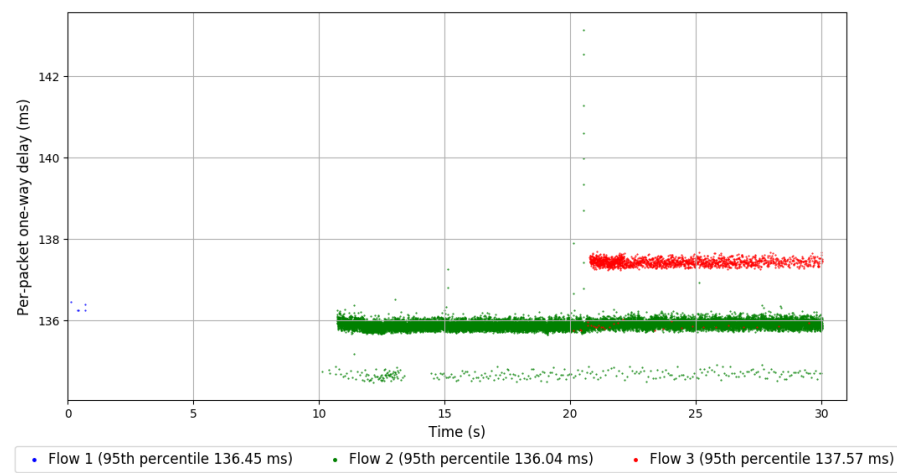
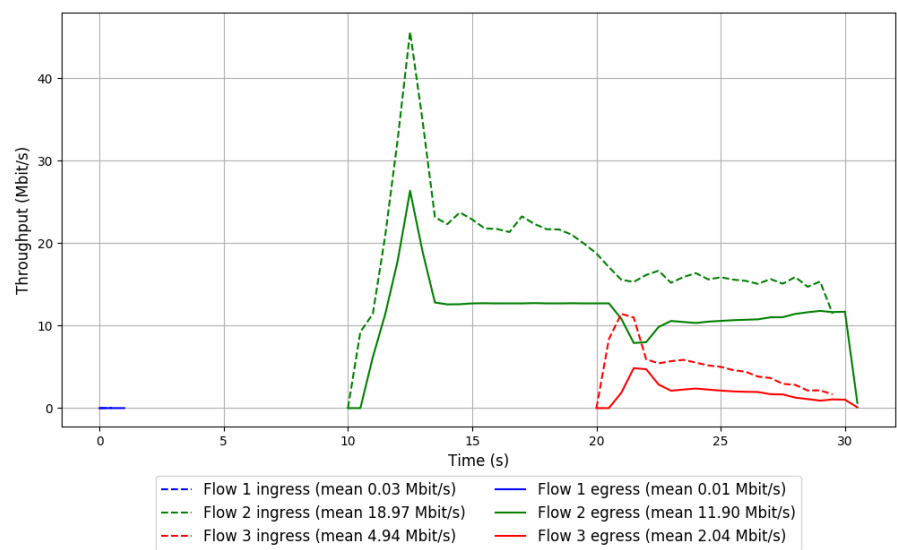
-- Flow 3:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 137.570 ms

Loss rate: 58.80%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-12-02 06:30:35

End at: 2018-12-02 06:31:05

Local clock offset: 6.645 ms

Remote clock offset: 3.264 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 135.994 ms

Loss rate: 46.07%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 145.961 ms

Loss rate: 70.59%

-- Flow 2:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 135.991 ms

Loss rate: 43.38%

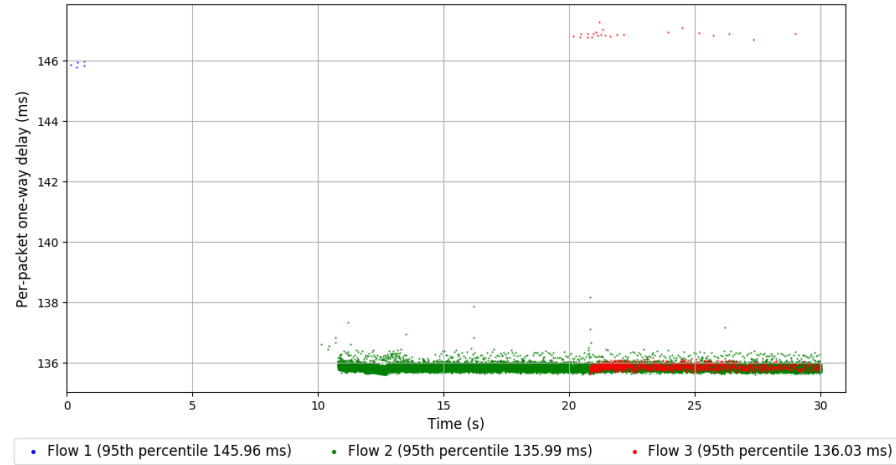
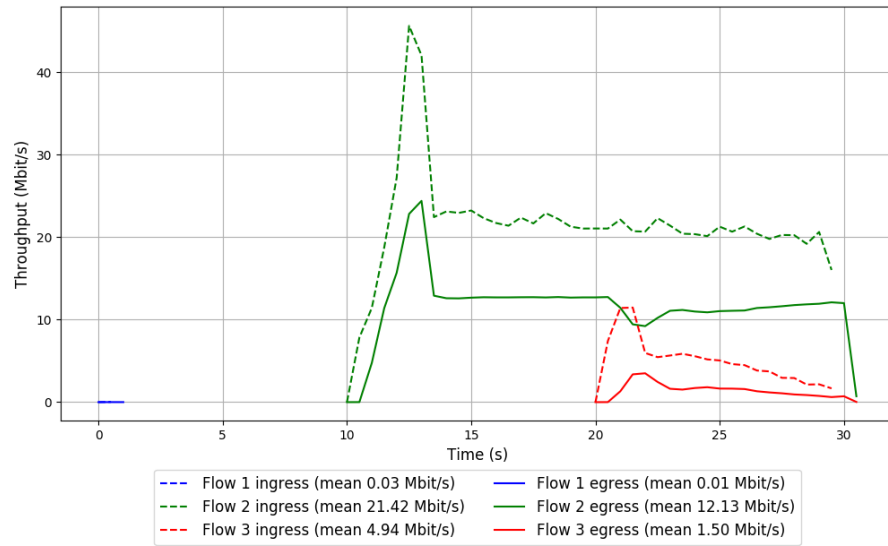
-- Flow 3:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 136.034 ms

Loss rate: 69.60%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-12-02 07:01:59

End at: 2018-12-02 07:02:29

Local clock offset: 6.771 ms

Remote clock offset: 5.047 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 140.731 ms

Loss rate: 46.41%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 135.243 ms

Loss rate: 70.59%

-- Flow 2:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 140.726 ms

Loss rate: 43.71%

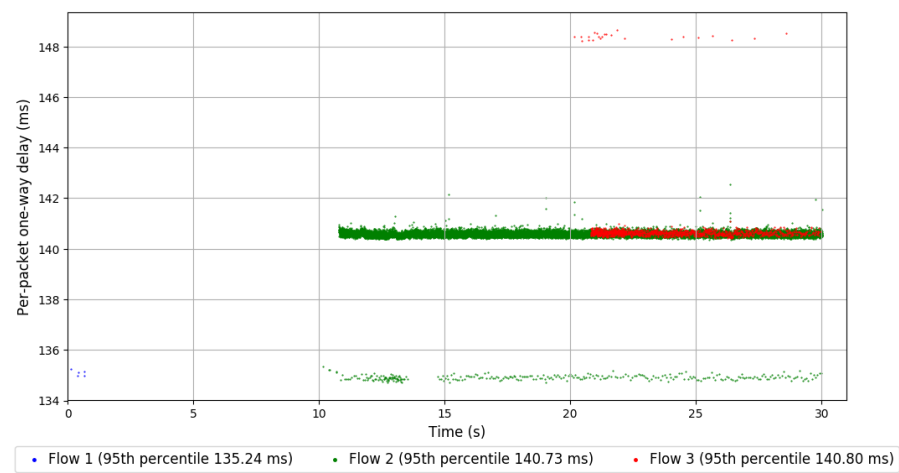
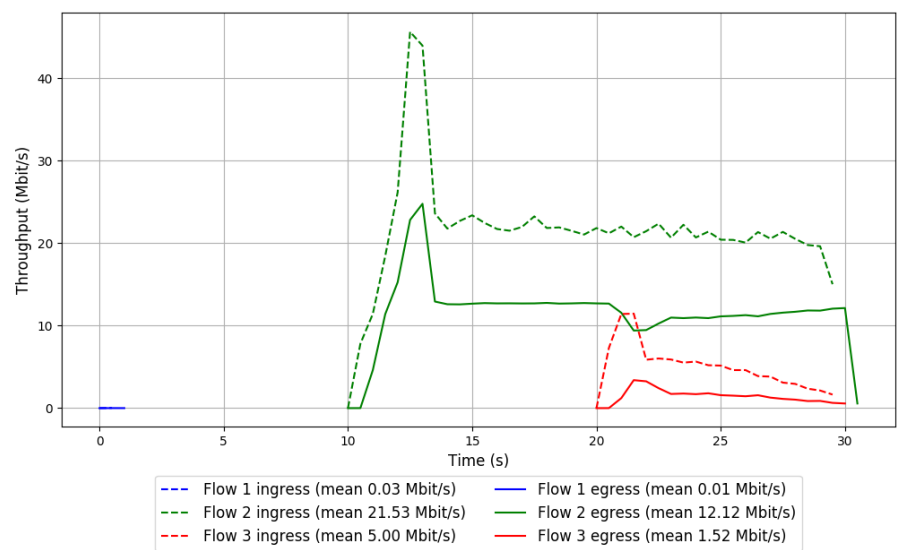
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 140.799 ms

Loss rate: 69.82%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-12-02 05:11:47

End at: 2018-12-02 05:12:17

Local clock offset: 12.556 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 141.022 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.53 Mbit/s

95th percentile per-packet one-way delay: 133.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 141.486 ms

Loss rate: 0.07%

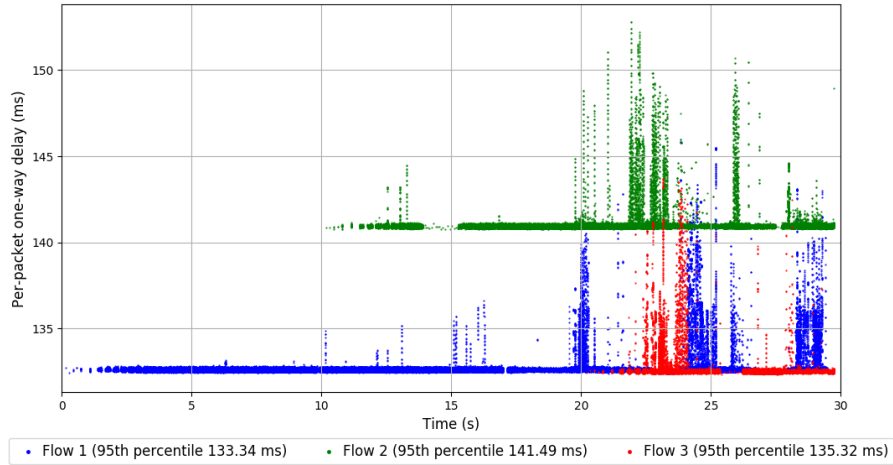
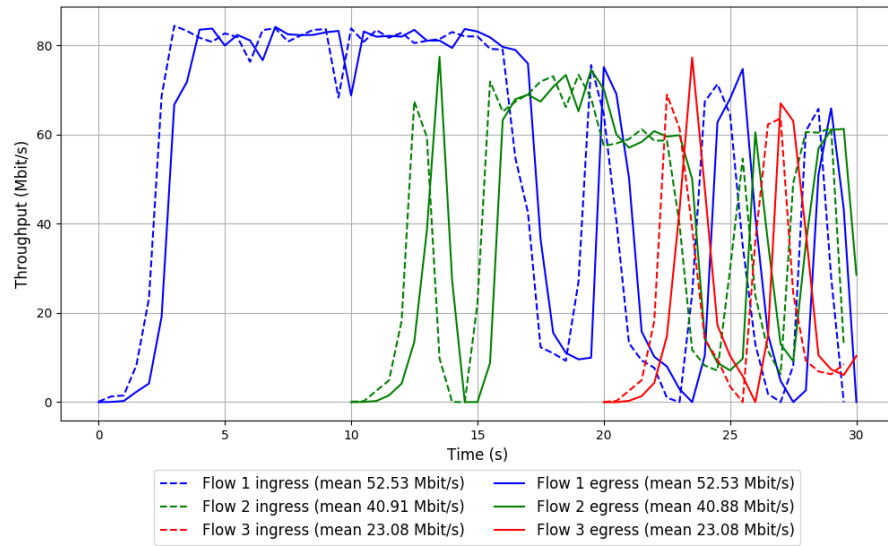
-- Flow 3:

Average throughput: 23.08 Mbit/s

95th percentile per-packet one-way delay: 135.321 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-12-02 05:43:08

End at: 2018-12-02 05:43:38

Local clock offset: -5.236 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 158.293 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 157.085 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 158.578 ms

Loss rate: 0.10%

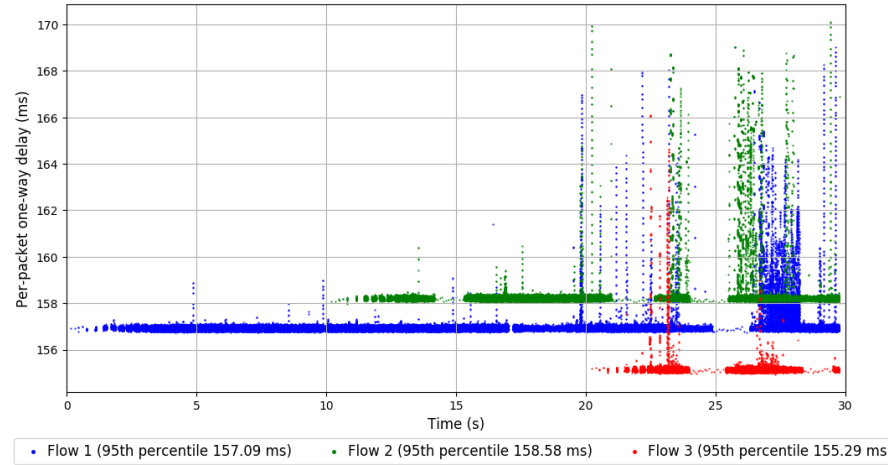
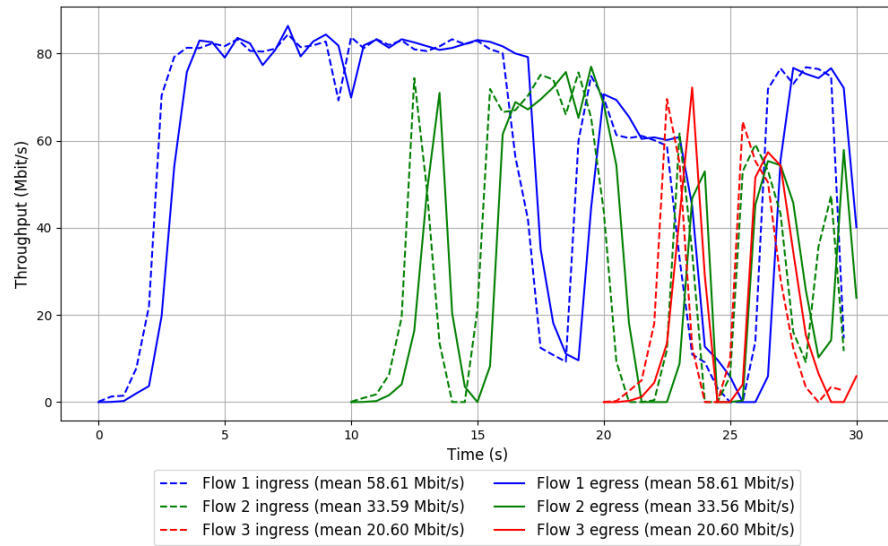
-- Flow 3:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 155.286 ms

Loss rate: 0.04%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-02 06:14:34

End at: 2018-12-02 06:15:04

Local clock offset: 7.704 ms

Remote clock offset: 1.37 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.86 Mbit/s

95th percentile per-packet one-way delay: 148.251 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 147.650 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 146.065 ms

Loss rate: 0.00%

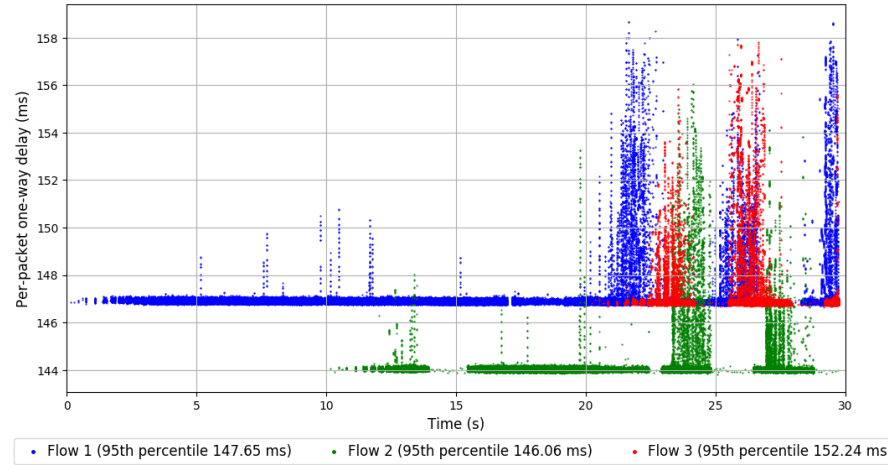
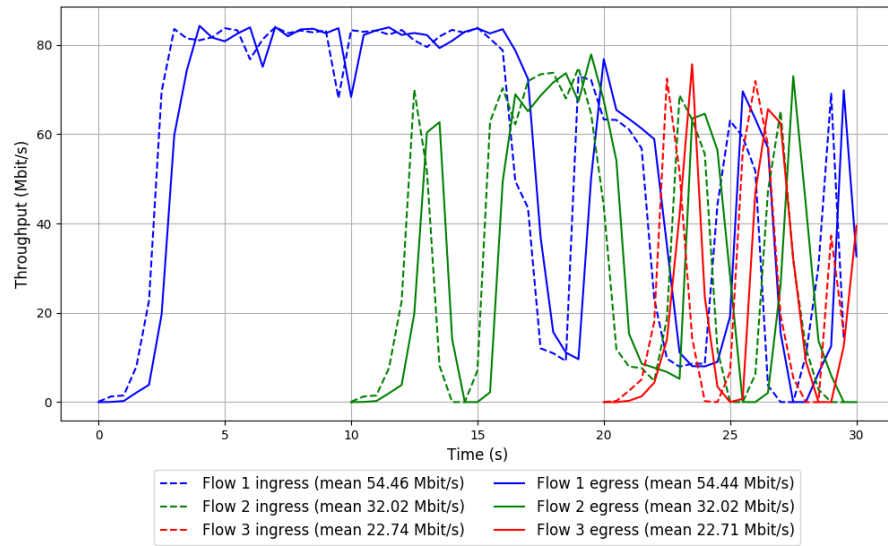
-- Flow 3:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 152.244 ms

Loss rate: 0.15%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-12-02 06:46:03

End at: 2018-12-02 06:46:33

Local clock offset: 6.455 ms

Remote clock offset: 4.289 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 152.124 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 135.790 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 154.605 ms

Loss rate: 0.16%

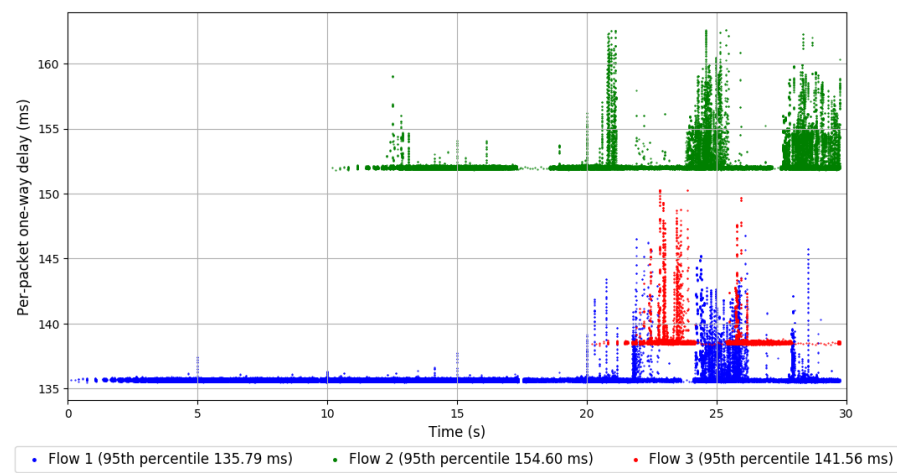
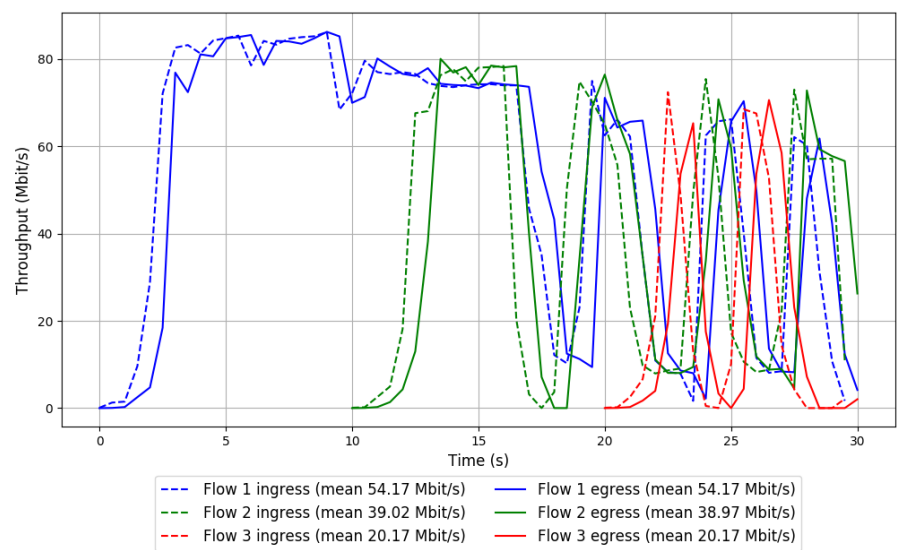
-- Flow 3:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 141.562 ms

Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-02 07:17:32

End at: 2018-12-02 07:18:02

Local clock offset: -5.868 ms

Remote clock offset: 5.664 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 158.397 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 43.64 Mbit/s

95th percentile per-packet one-way delay: 146.163 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 156.103 ms

Loss rate: 0.00%

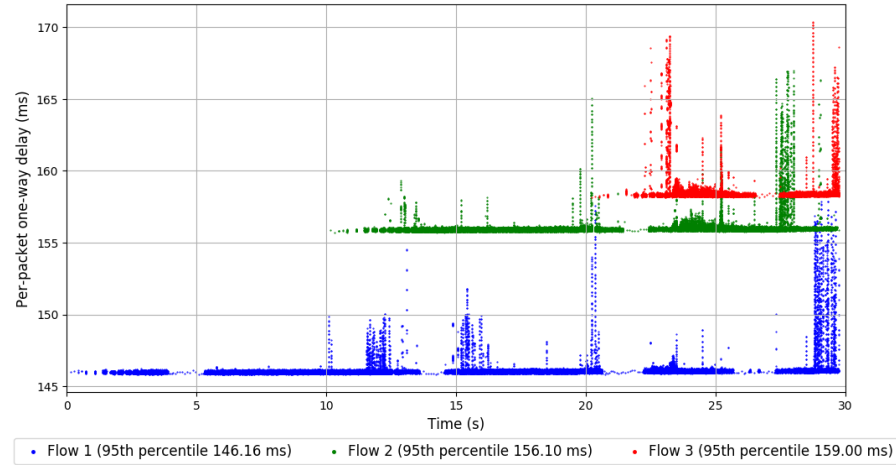
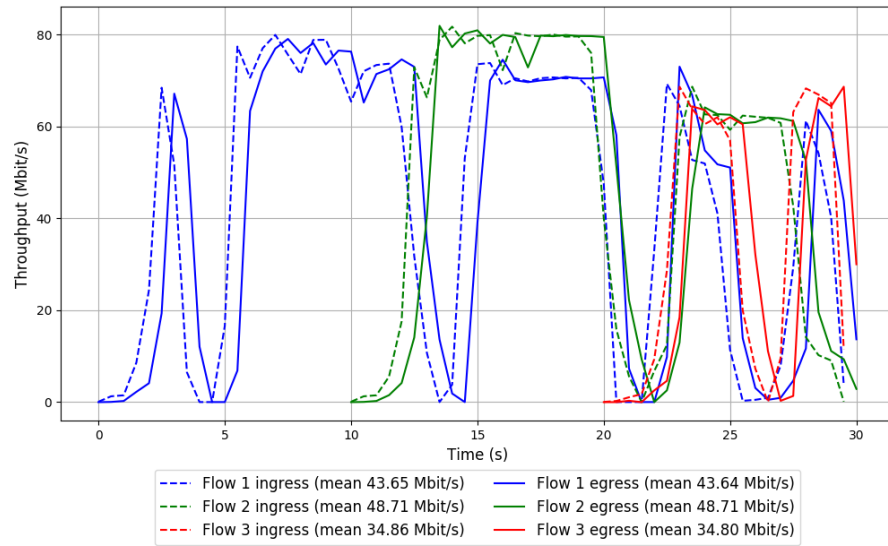
-- Flow 3:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 158.999 ms

Loss rate: 0.19%

Run 5: Report of QUIC Cubic — Data Link

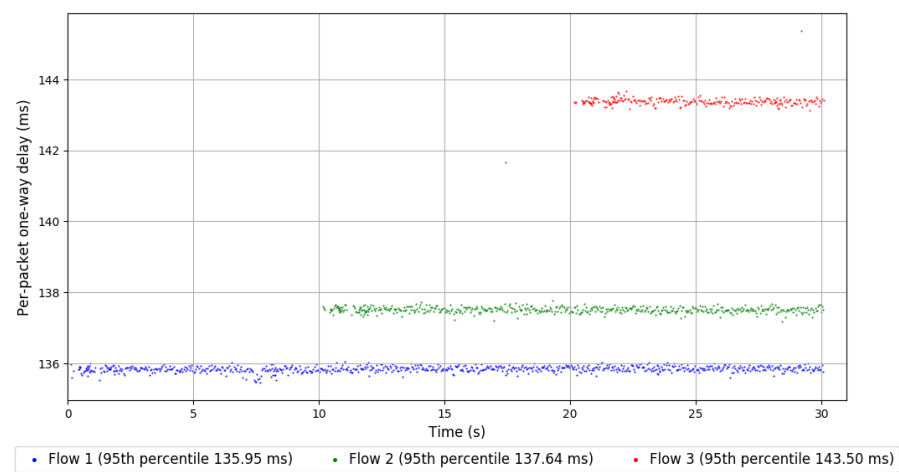
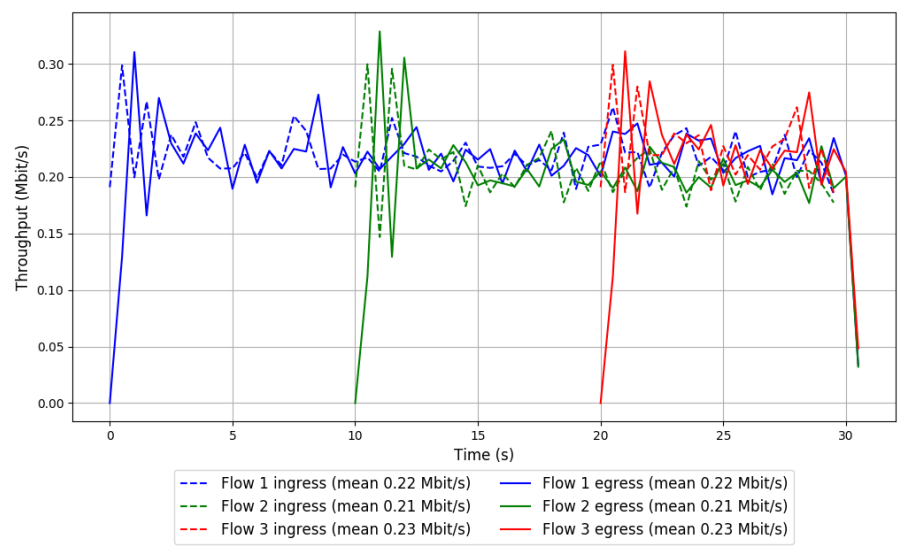



```
Run 1: Statistics of SCReAM

Start at: 2018-12-02 04:45:05
End at: 2018-12-02 04:45:35
Local clock offset: 6.326 ms
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2018-12-02 07:52:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 143.414 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.954 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 137.636 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 143.504 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

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

End at: 2018-12-02 05:16:52

Local clock offset: 8.043 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 144.608 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 144.645 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 143.543 ms

Loss rate: 0.00%

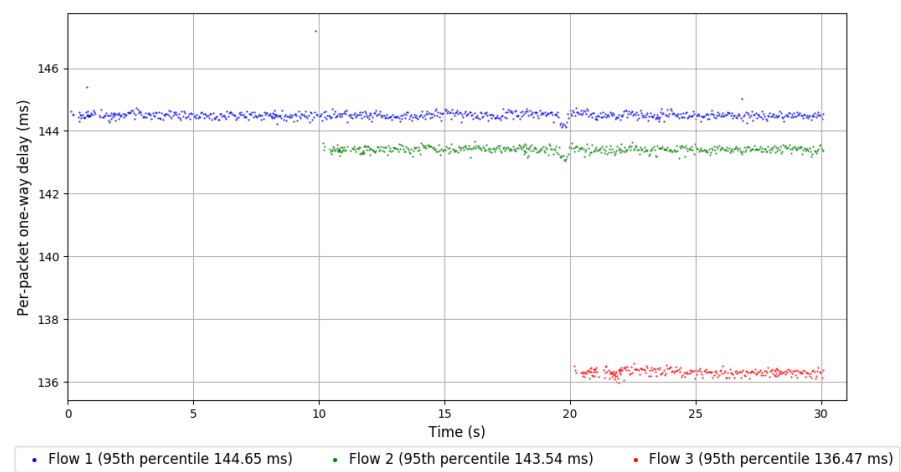
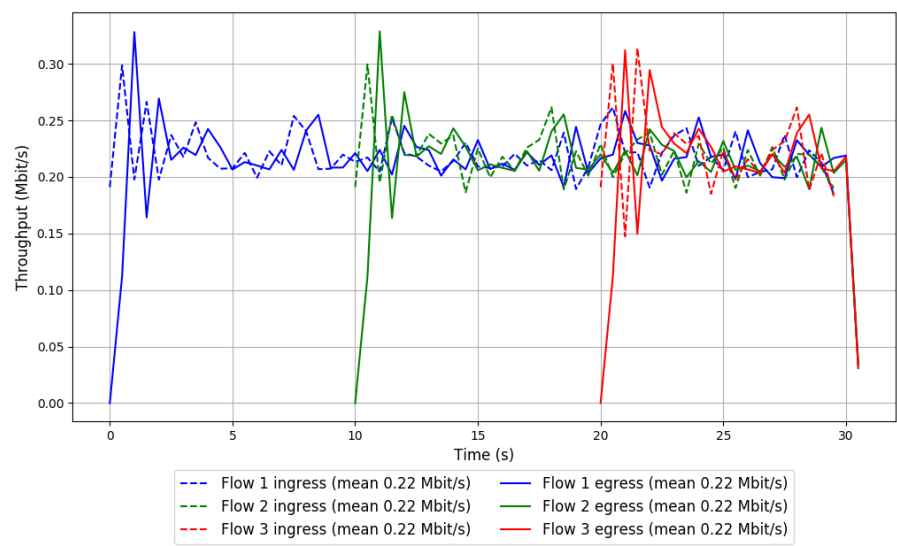
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.467 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

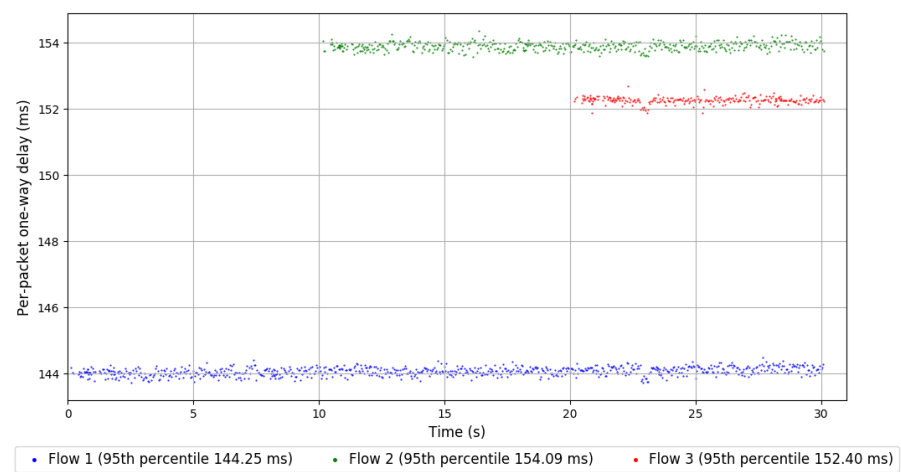
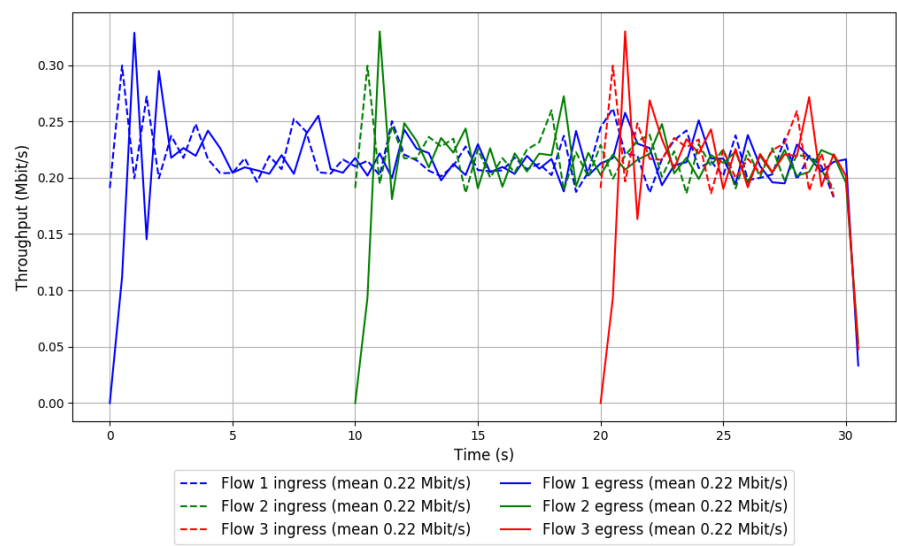


Run 3: Statistics of SReAM

Start at: 2018-12-02 05:47:49
End at: 2018-12-02 05:48:19
Local clock offset: -1.991 ms
Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-12-02 07:52:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 144.253 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.087 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.396 ms
Loss rate: 0.00%

Run 3: Report of SCSReAM — Data Link

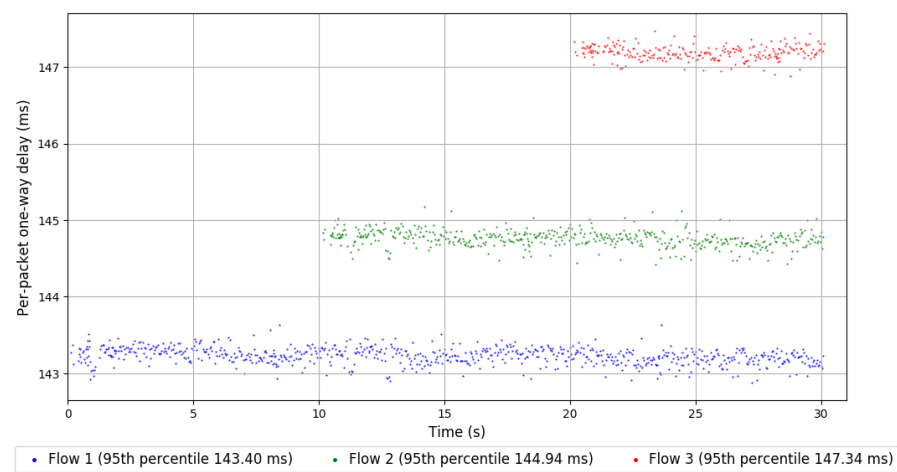
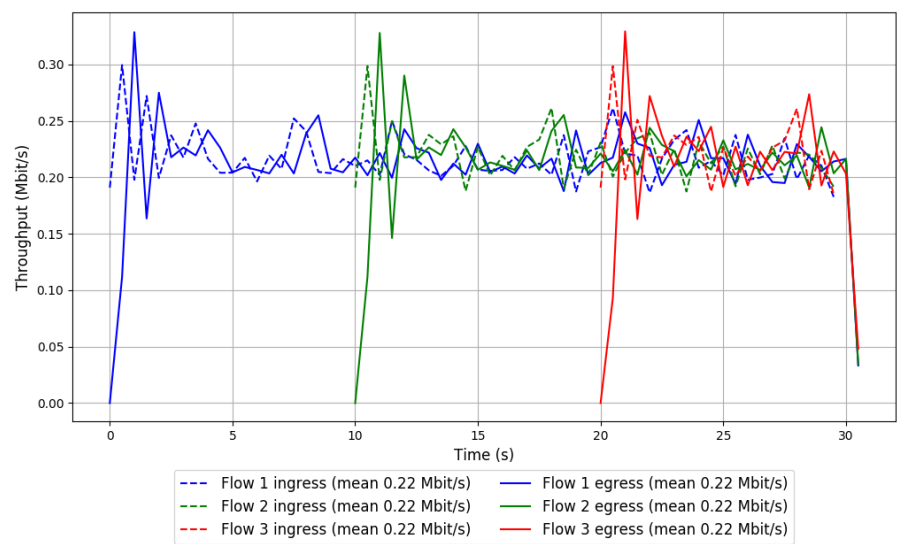


Run 4: Statistics of SCReAM

Start at: 2018-12-02 06:19:11
End at: 2018-12-02 06:19:41
Local clock offset: 7.526 ms
Remote clock offset: 2.188 ms

```
# Below is generated by plot.py at 2018-12-02 07:52:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 147.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 143.399 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 144.937 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 147.336 ms
Loss rate: 0.00%
```

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-12-02 06:50:42

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

Local clock offset: -0.97 ms

Remote clock offset: 4.479 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 153.142 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 153.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 143.737 ms

Loss rate: 0.00%

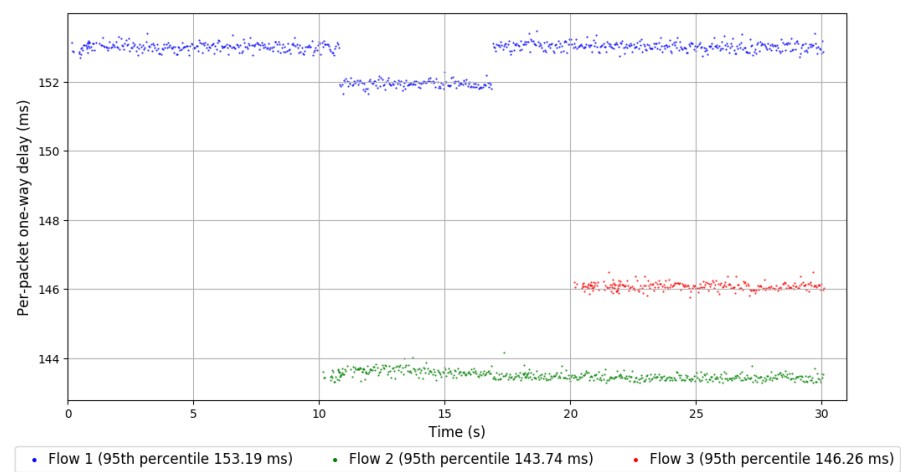
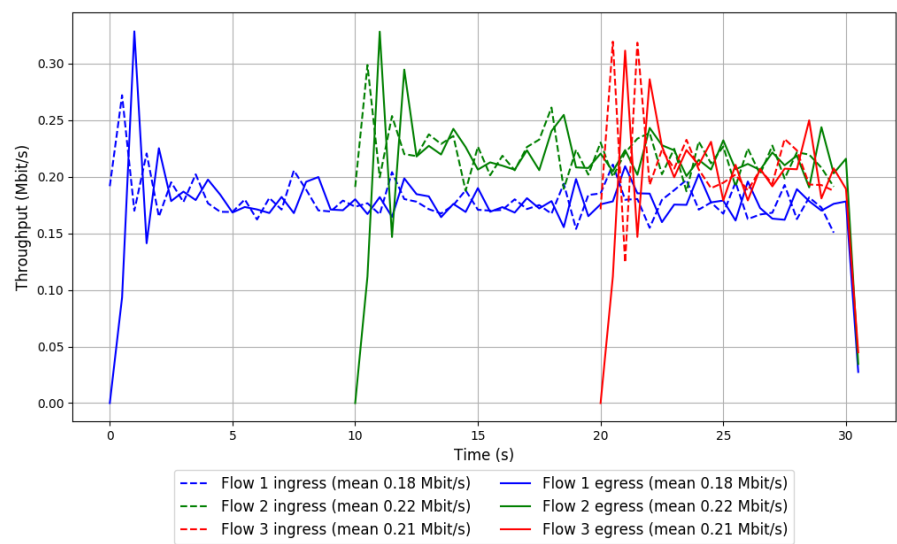
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 146.260 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

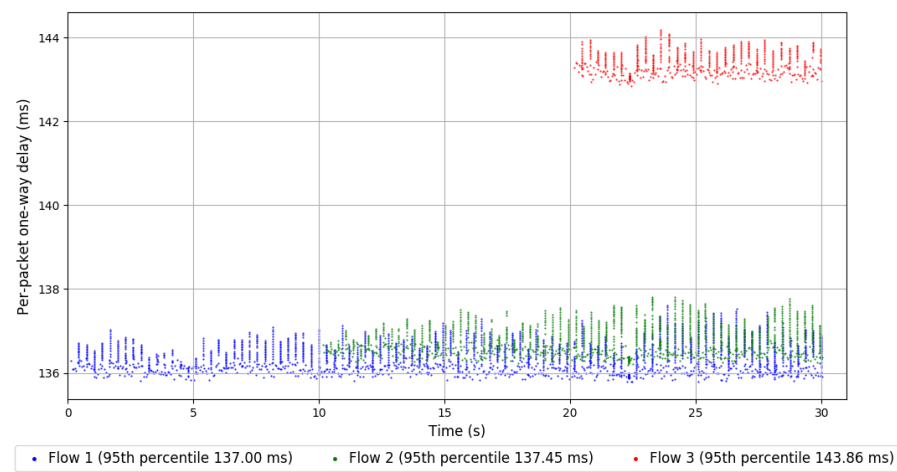
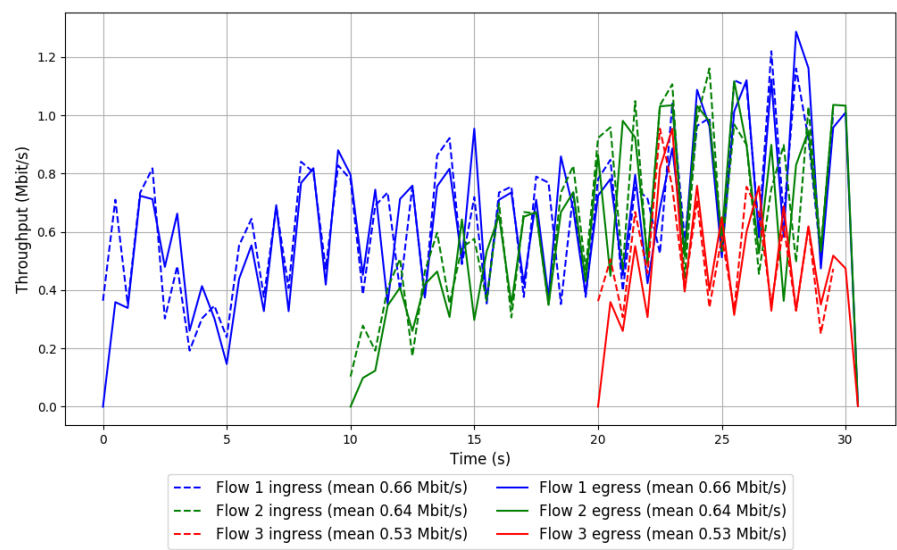


Run 1: Statistics of Sprout

Start at: 2018-12-02 05:10:20
End at: 2018-12-02 05:10:50
Local clock offset: 7.527 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-12-02 07:52:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 143.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 136.999 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 137.453 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 143.864 ms
Loss rate: 0.02%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-12-02 05:41:42

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

Local clock offset: 7.196 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 145.050 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 144.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 145.212 ms

Loss rate: 0.01%

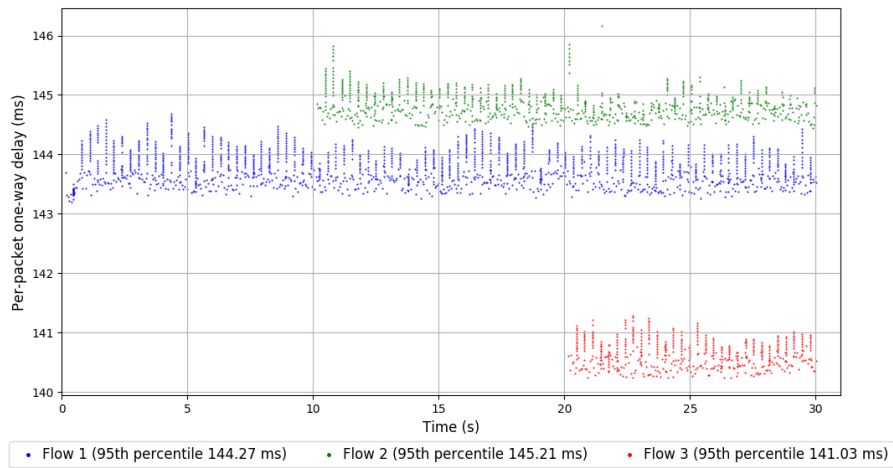
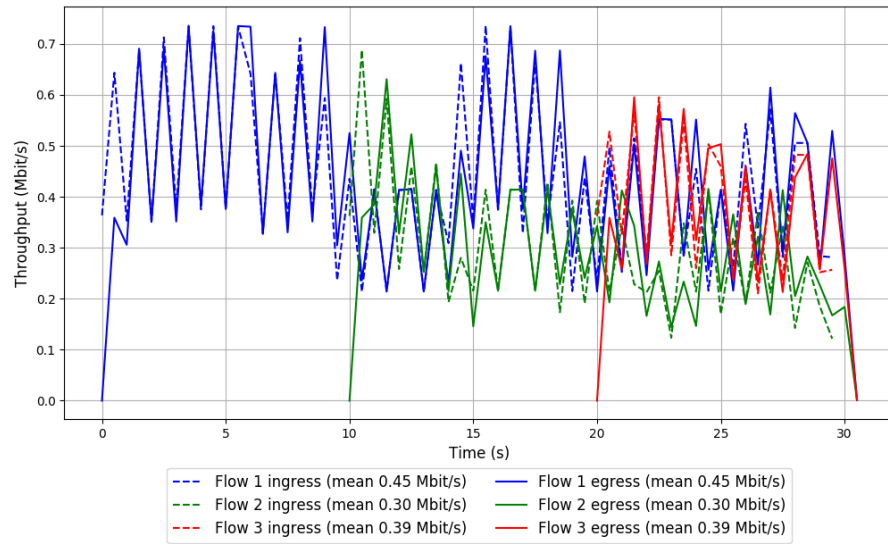
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 141.031 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-12-02 06:13:08

End at: 2018-12-02 06:13:38

Local clock offset: 8.019 ms

Remote clock offset: 1.059 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 147.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.839 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 147.448 ms

Loss rate: 0.00%

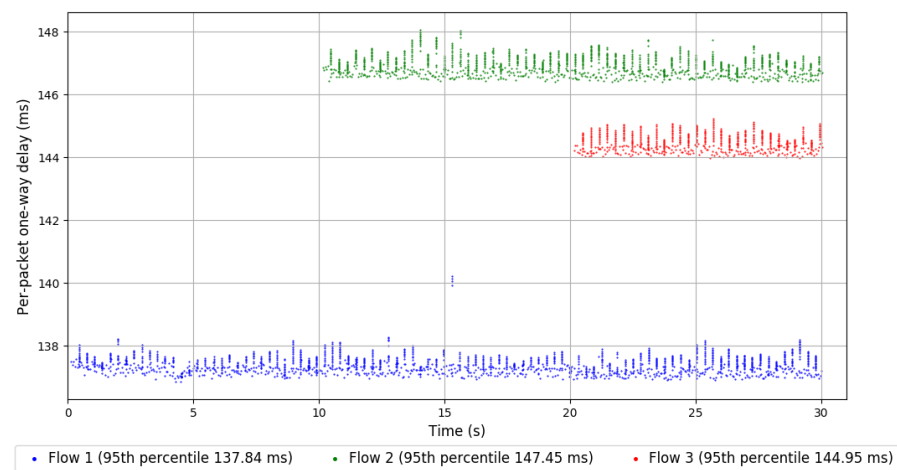
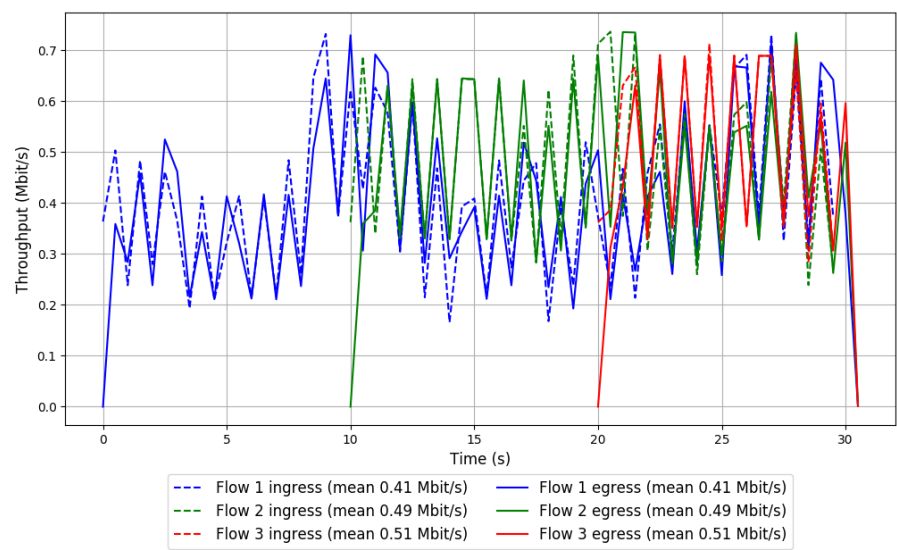
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.952 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

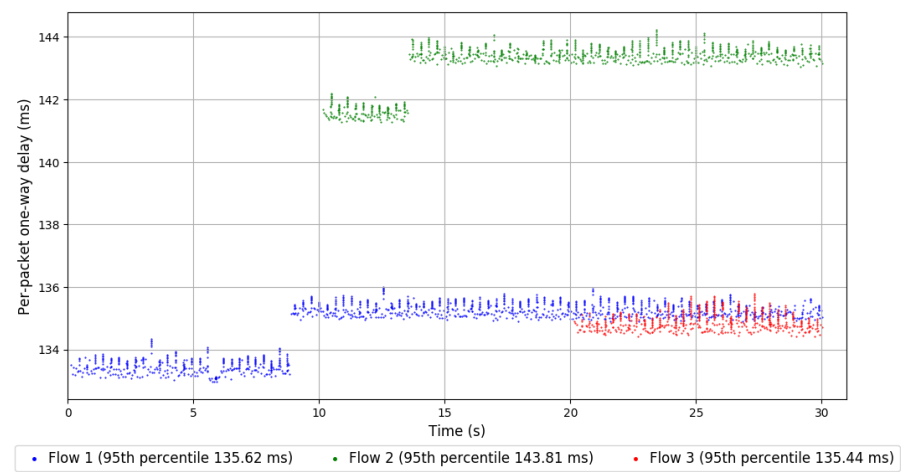
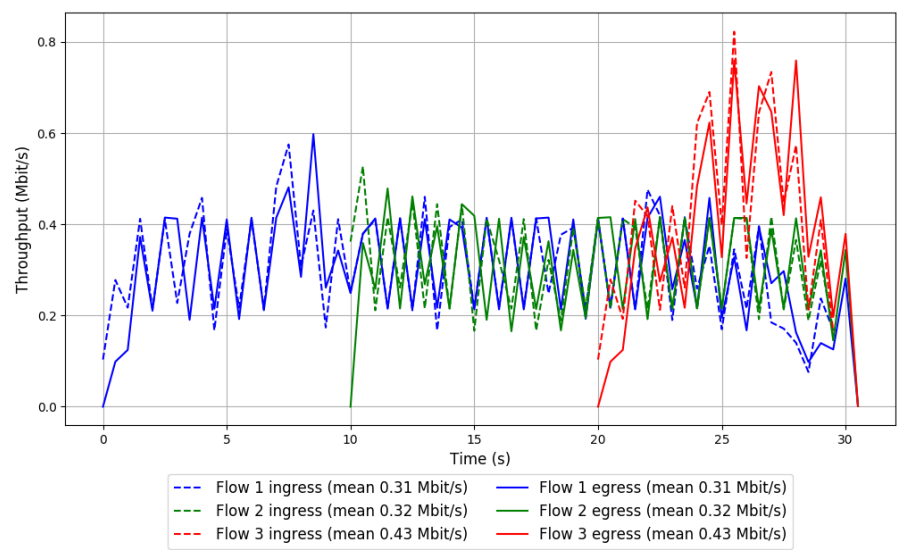


Run 4: Statistics of Sprout

Start at: 2018-12-02 06:44:36
End at: 2018-12-02 06:45:06
Local clock offset: 7.473 ms
Remote clock offset: 4.069 ms

```
# Below is generated by plot.py at 2018-12-02 07:52:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 143.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 135.618 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 143.815 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 135.440 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

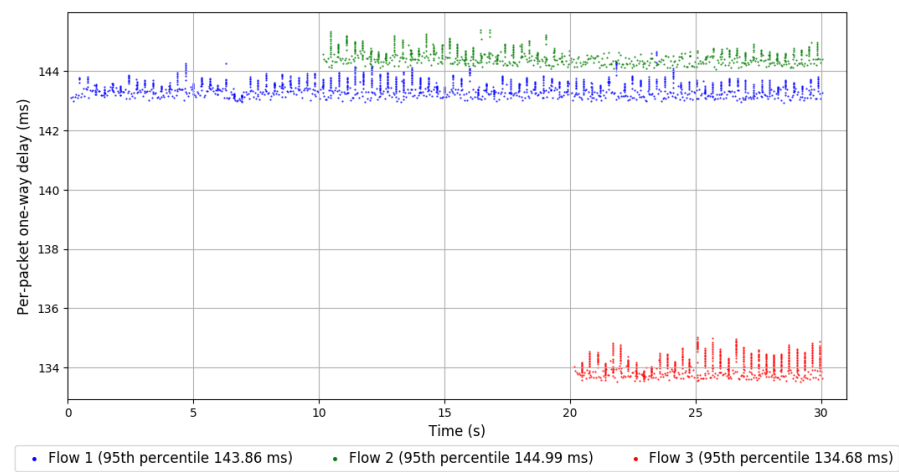
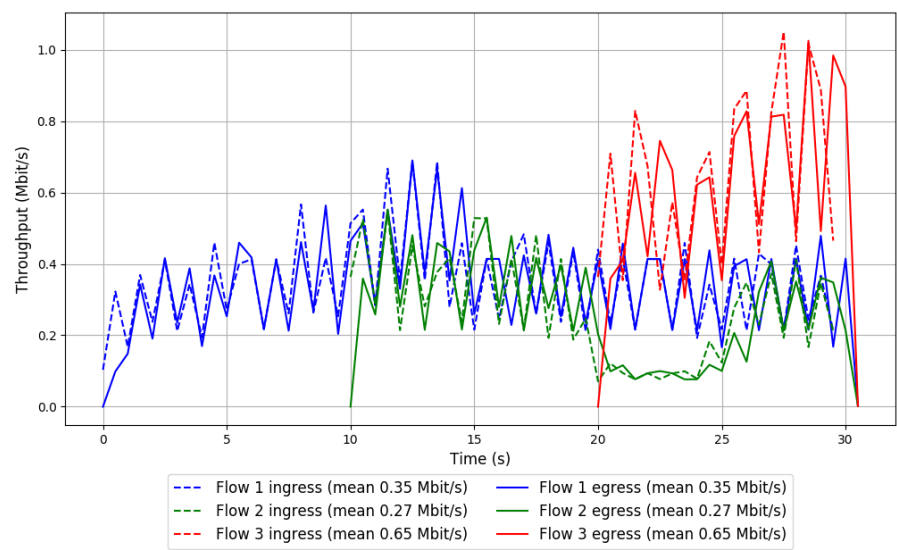


Run 5: Statistics of Sprout

Start at: 2018-12-02 07:16:05
End at: 2018-12-02 07:16:35
Local clock offset: 6.93 ms
Remote clock offset: 5.588 ms

```
# Below is generated by plot.py at 2018-12-02 07:52:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 144.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 143.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 144.987 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 134.678 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-12-02 04:43:37

End at: 2018-12-02 04:44:07

Local clock offset: -5.087 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 152.121 ms

Loss rate: 34.97%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 157.149 ms

Loss rate: 92.16%

-- Flow 2:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 153.703 ms

Loss rate: 27.91%

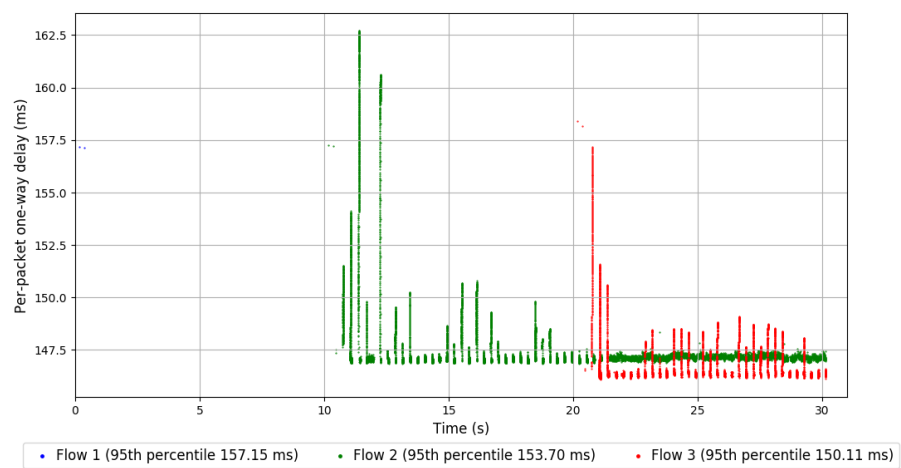
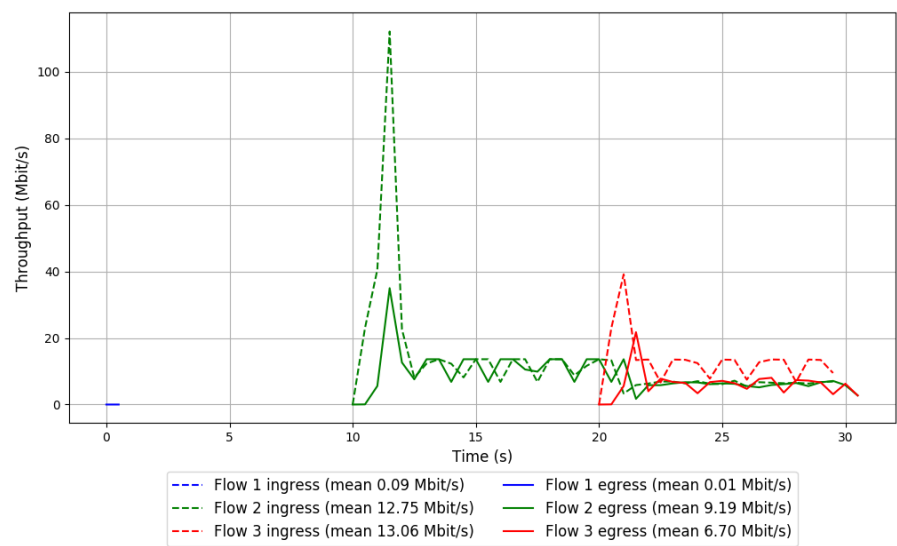
-- Flow 3:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 150.110 ms

Loss rate: 48.76%

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

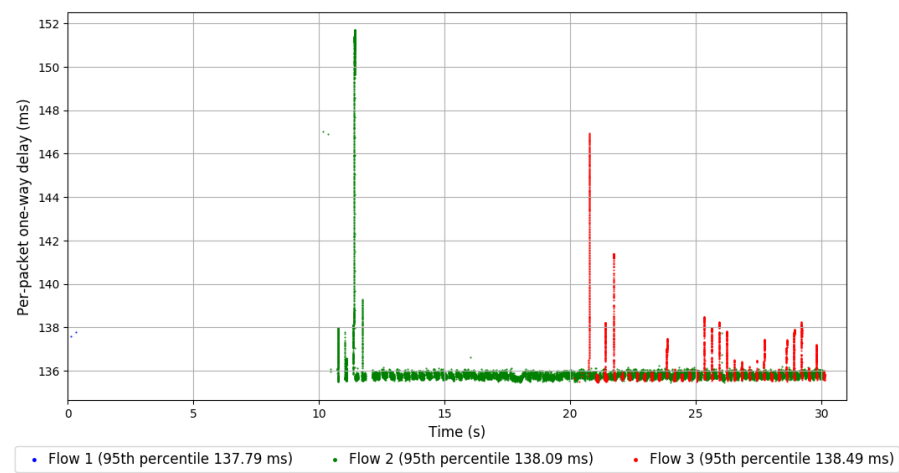
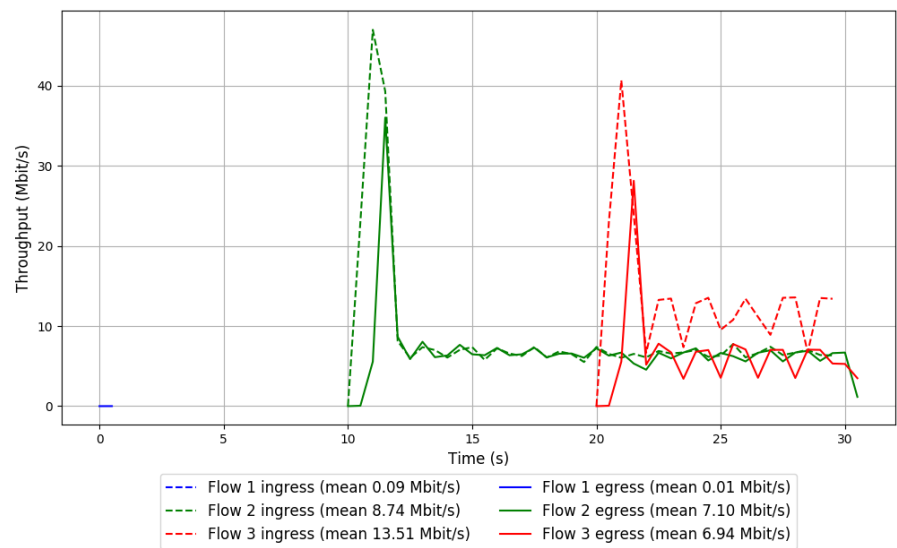


Run 2: Statistics of TaoVA-100x

Start at: 2018-12-02 05:14:54
End at: 2018-12-02 05:15:24
Local clock offset: 7.934 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-12-02 07:52:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 138.359 ms
Loss rate: 31.82%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 137.793 ms
Loss rate: 92.16%
-- Flow 2:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 138.093 ms
Loss rate: 18.84%
-- Flow 3:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 138.494 ms
Loss rate: 48.65%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-12-02 05:46:21

End at: 2018-12-02 05:46:51

Local clock offset: -1.869 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 151.864 ms

Loss rate: 27.12%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 157.552 ms

Loss rate: 92.16%

-- Flow 2:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 153.117 ms

Loss rate: 26.44%

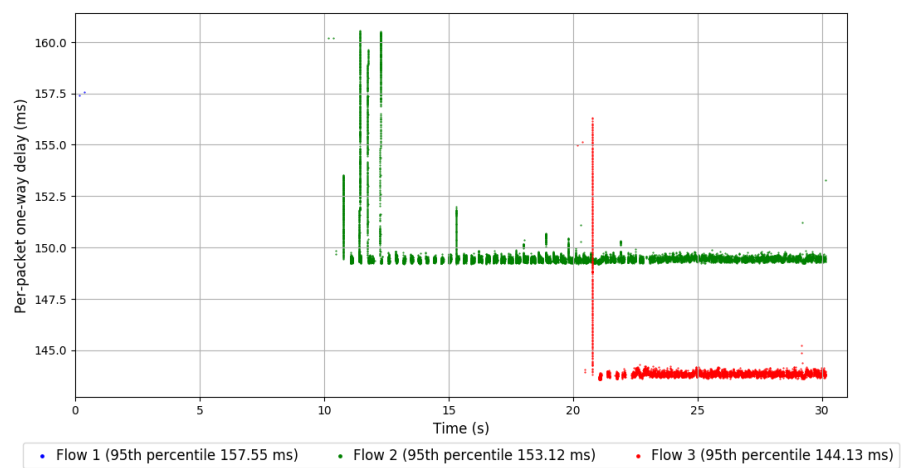
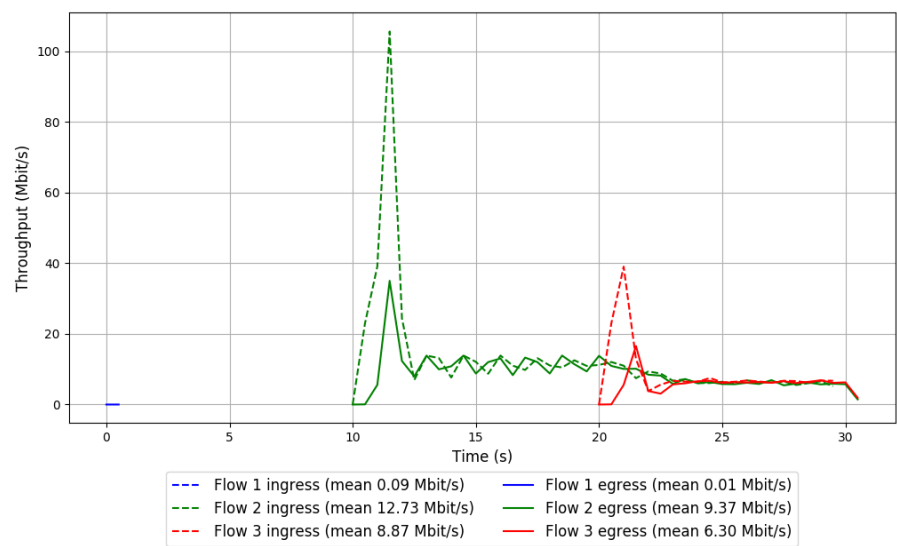
-- Flow 3:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 144.134 ms

Loss rate: 29.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-12-02 06:17:43

End at: 2018-12-02 06:18:13

Local clock offset: -4.508 ms

Remote clock offset: 2.0 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 151.349 ms

Loss rate: 32.46%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 157.000 ms

Loss rate: 92.16%

-- Flow 2:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 150.961 ms

Loss rate: 19.57%

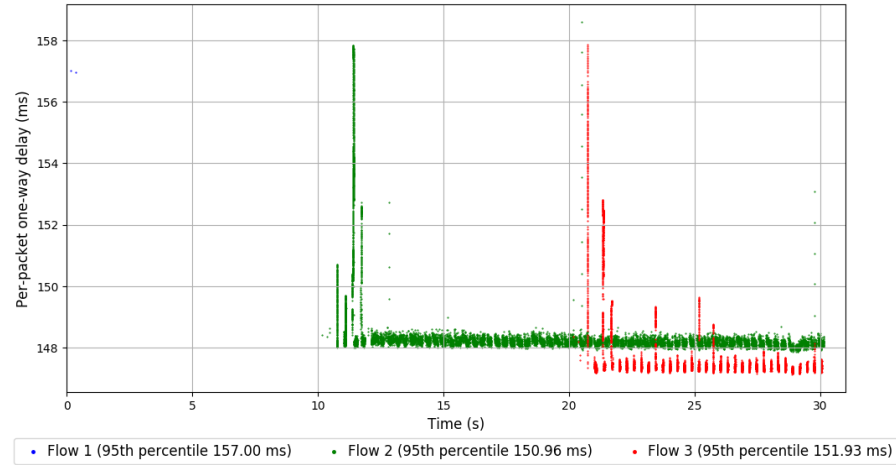
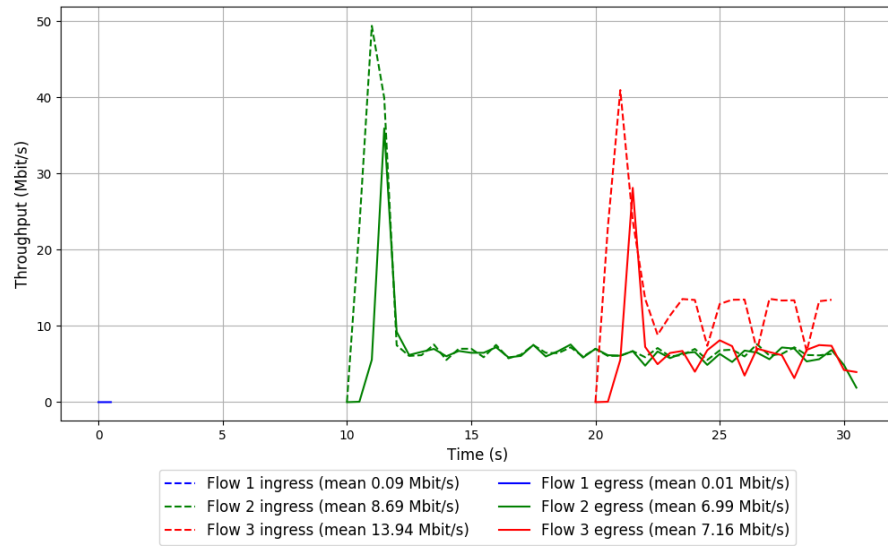
-- Flow 3:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 151.925 ms

Loss rate: 48.67%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-12-02 06:49:14

End at: 2018-12-02 06:49:44

Local clock offset: -4.093 ms

Remote clock offset: 4.384 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 149.225 ms

Loss rate: 31.30%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 156.348 ms

Loss rate: 92.16%

-- Flow 2:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 149.204 ms

Loss rate: 29.07%

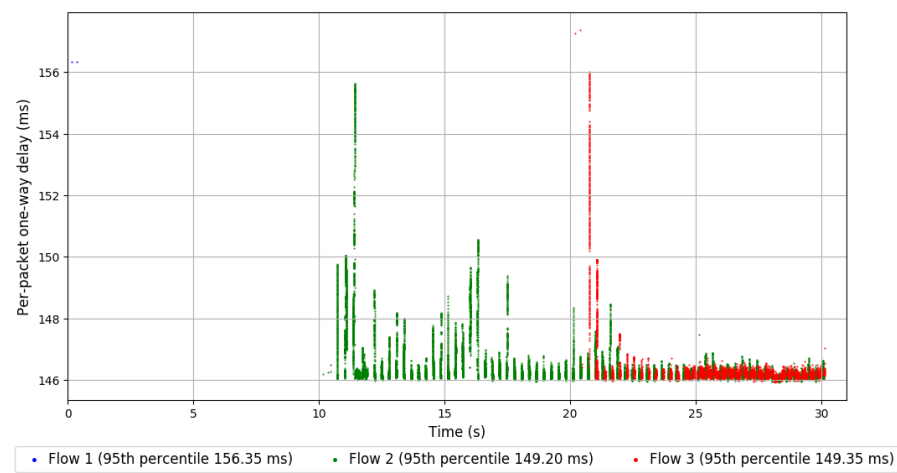
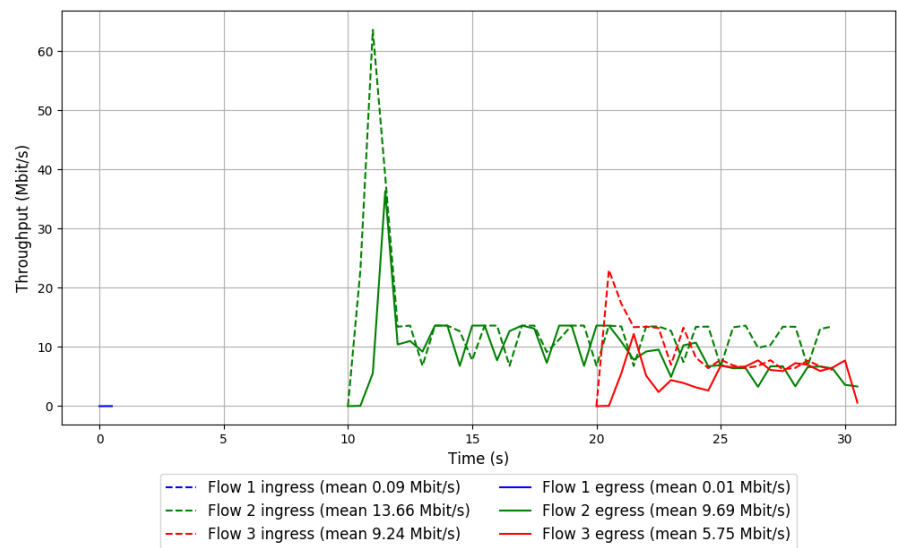
-- Flow 3:

Average throughput: 5.75 Mbit/s

95th percentile per-packet one-way delay: 149.353 ms

Loss rate: 37.90%

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

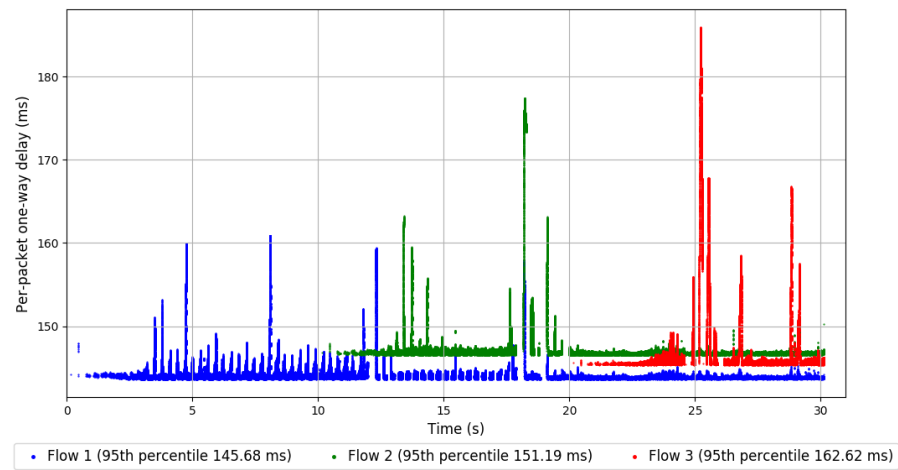
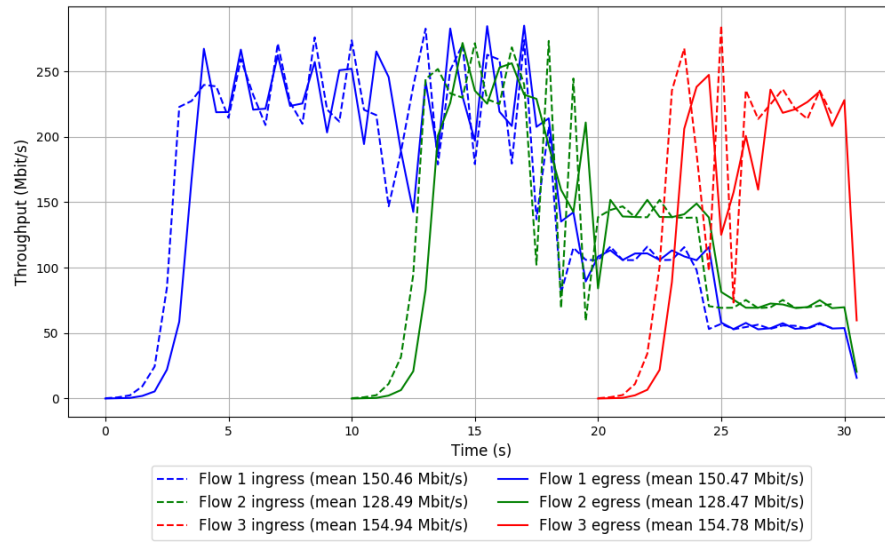


Run 1: Statistics of TCP Vegas

Start at: 2018-12-02 04:57:53
End at: 2018-12-02 04:58:23
Local clock offset: 7.431 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-12-02 07:52:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.50 Mbit/s
95th percentile per-packet one-way delay: 149.041 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 150.47 Mbit/s
95th percentile per-packet one-way delay: 145.677 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 128.47 Mbit/s
95th percentile per-packet one-way delay: 151.189 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 154.78 Mbit/s
95th percentile per-packet one-way delay: 162.617 ms
Loss rate: 0.19%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

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

End at: 2018-12-02 05:29:42

Local clock offset: 6.736 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.44 Mbit/s

95th percentile per-packet one-way delay: 147.825 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 191.93 Mbit/s

95th percentile per-packet one-way delay: 148.538 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 145.14 Mbit/s

95th percentile per-packet one-way delay: 138.160 ms

Loss rate: 0.00%

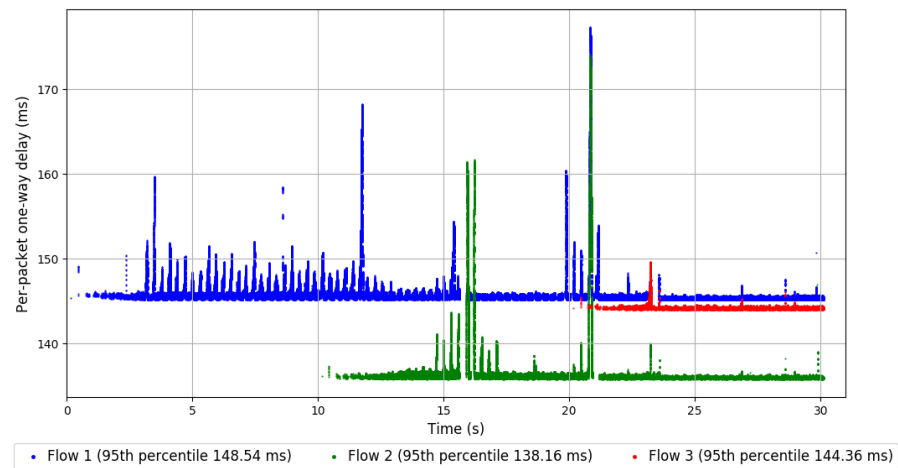
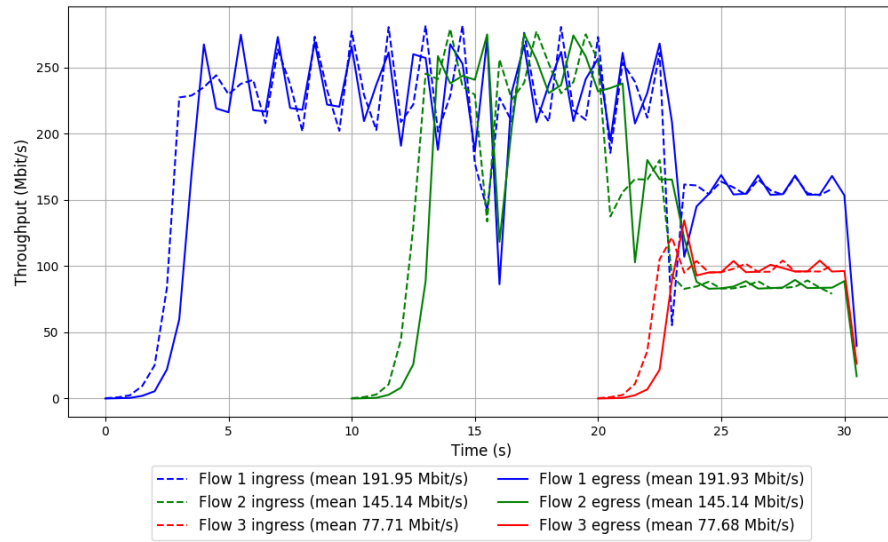
-- Flow 3:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 144.359 ms

Loss rate: 0.13%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-12-02 06:00:33

End at: 2018-12-02 06:01:03

Local clock offset: 7.521 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.01 Mbit/s

95th percentile per-packet one-way delay: 141.152 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 180.61 Mbit/s

95th percentile per-packet one-way delay: 142.553 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 181.36 Mbit/s

95th percentile per-packet one-way delay: 140.924 ms

Loss rate: 0.05%

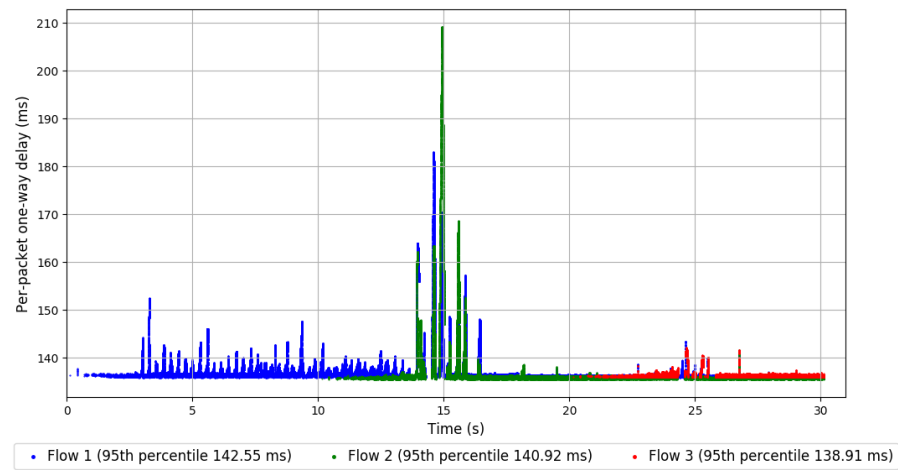
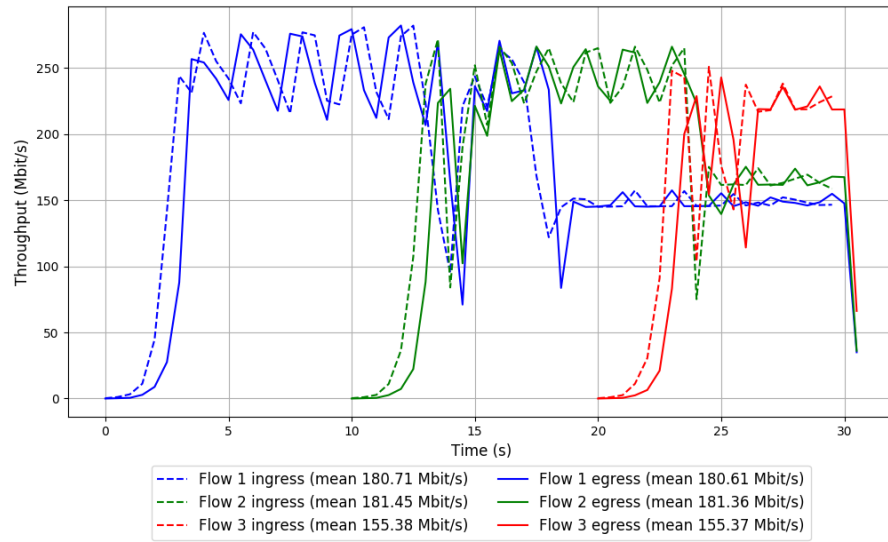
-- Flow 3:

Average throughput: 155.37 Mbit/s

95th percentile per-packet one-way delay: 138.906 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-12-02 06:32:03

End at: 2018-12-02 06:32:33

Local clock offset: -5.755 ms

Remote clock offset: 3.422 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.78 Mbit/s

95th percentile per-packet one-way delay: 156.581 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 159.11 Mbit/s

95th percentile per-packet one-way delay: 151.895 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 114.93 Mbit/s

95th percentile per-packet one-way delay: 156.778 ms

Loss rate: 0.05%

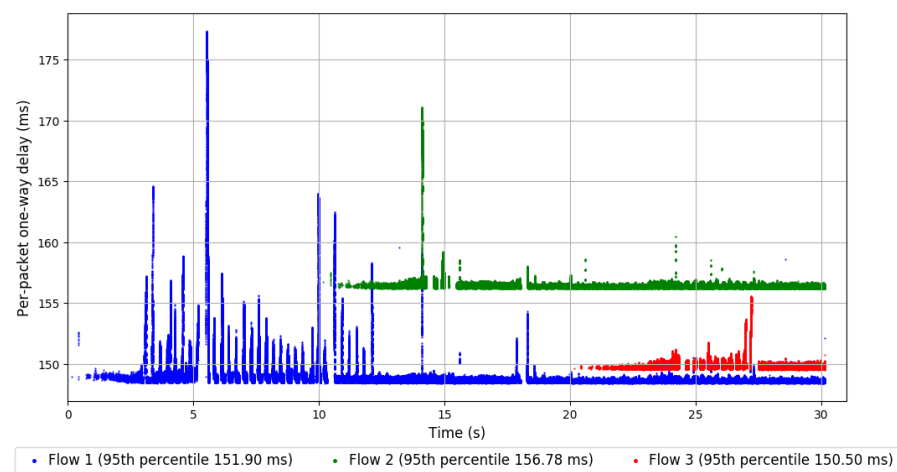
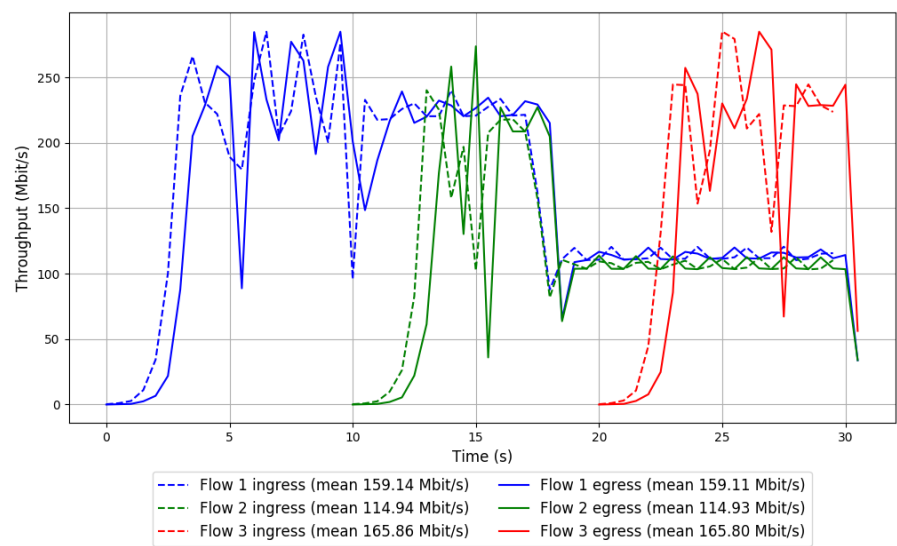
-- Flow 3:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 150.500 ms

Loss rate: 0.04%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-02 07:03:27

End at: 2018-12-02 07:03:57

Local clock offset: 5.763 ms

Remote clock offset: 5.003 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.35 Mbit/s

95th percentile per-packet one-way delay: 152.415 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 135.52 Mbit/s

95th percentile per-packet one-way delay: 138.715 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.34 Mbit/s

95th percentile per-packet one-way delay: 152.564 ms

Loss rate: 0.09%

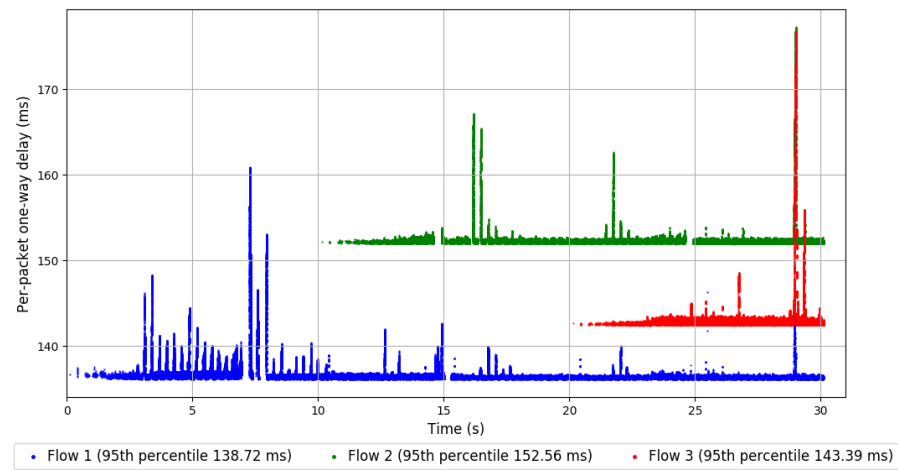
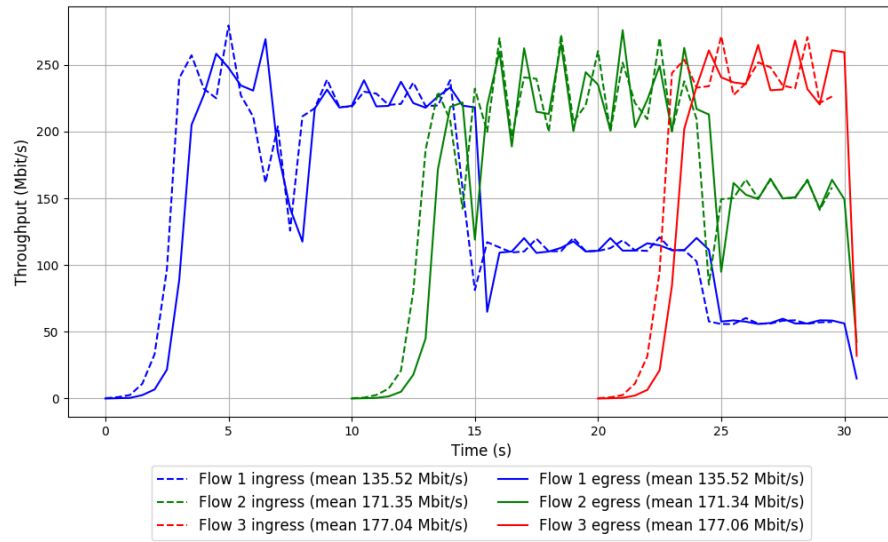
-- Flow 3:

Average throughput: 177.06 Mbit/s

95th percentile per-packet one-way delay: 143.388 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link

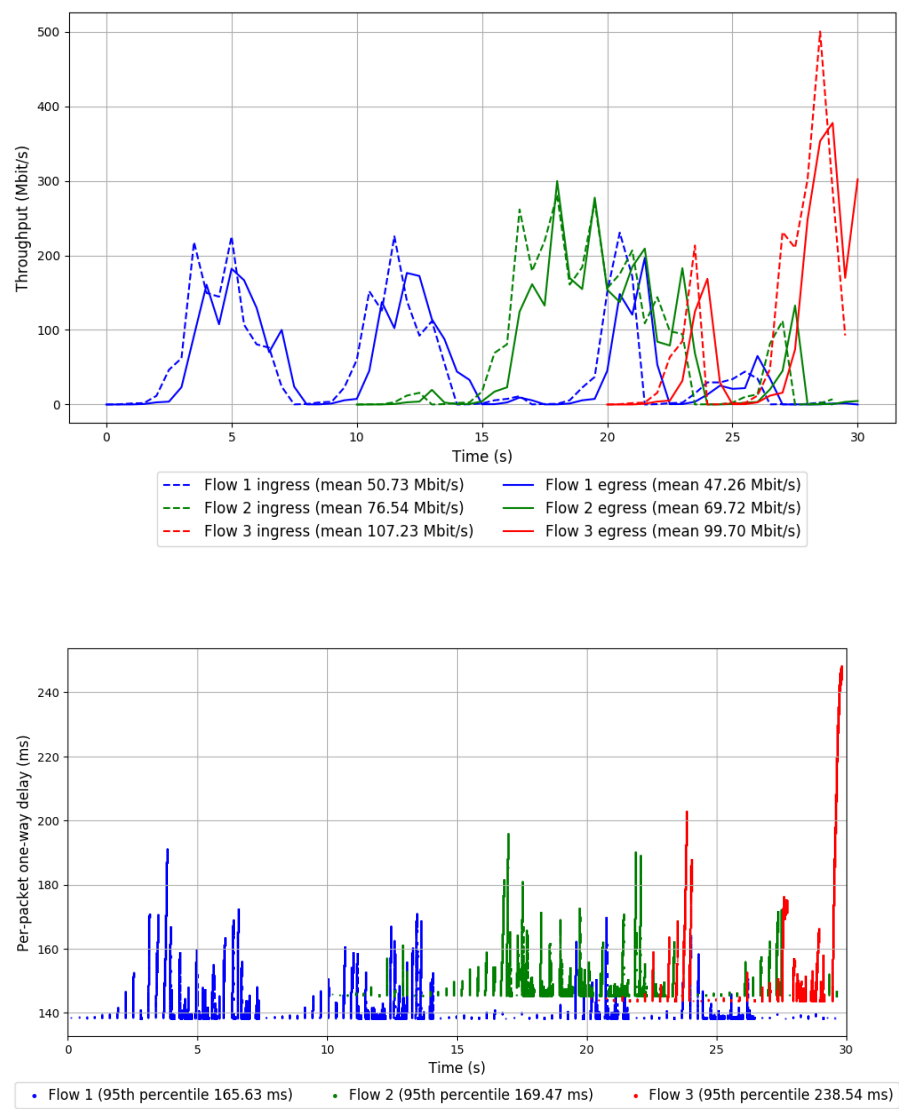


Run 1: Statistics of Verus

Start at: 2018-12-02 05:13:19
End at: 2018-12-02 05:13:49
Local clock offset: 7.947 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-12-02 07:52:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 124.97 Mbit/s
95th percentile per-packet one-way delay: 185.139 ms
Loss rate: 7.68%
-- Flow 1:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 165.633 ms
Loss rate: 6.84%
-- Flow 2:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 169.470 ms
Loss rate: 8.90%
-- Flow 3:
Average throughput: 99.70 Mbit/s
95th percentile per-packet one-way delay: 238.538 ms
Loss rate: 7.16%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-02 05:44:41

End at: 2018-12-02 05:45:11

Local clock offset: -5.25 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-12-02 07:52:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.93 Mbit/s

95th percentile per-packet one-way delay: 197.254 ms

Loss rate: 10.88%

-- Flow 1:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 196.844 ms

Loss rate: 7.94%

-- Flow 2:

Average throughput: 102.29 Mbit/s

95th percentile per-packet one-way delay: 214.573 ms

Loss rate: 14.30%

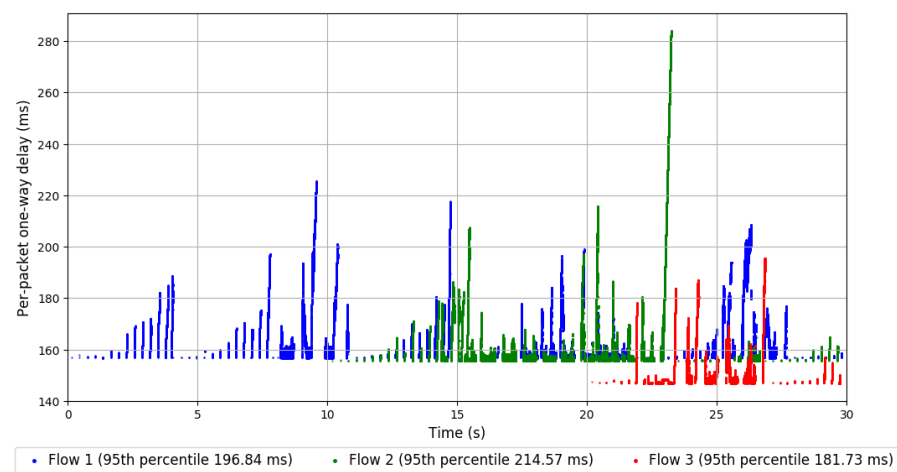
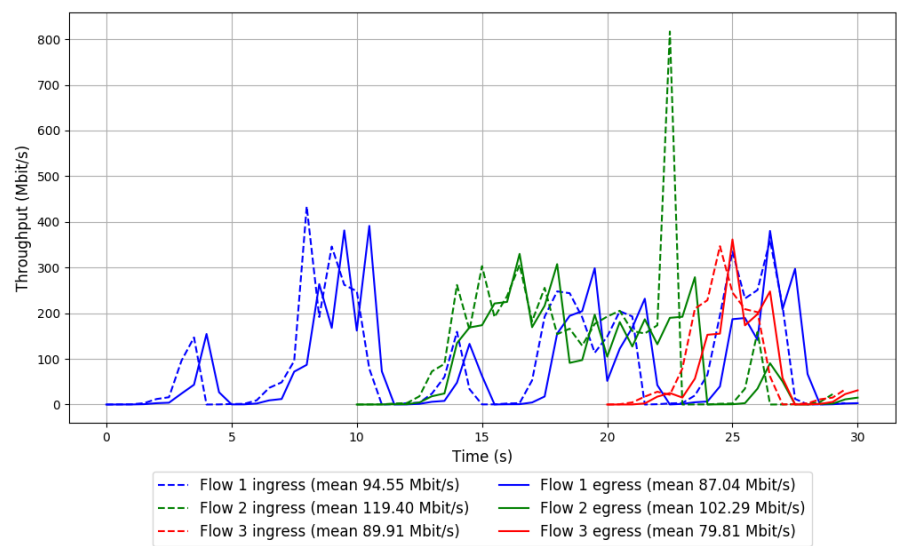
-- Flow 3:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 181.730 ms

Loss rate: 11.21%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

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

End at: 2018-12-02 06:16:36

Local clock offset: 8.83 ms

Remote clock offset: 1.759 ms

Below is generated by plot.py at 2018-12-02 07:52:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.49 Mbit/s

95th percentile per-packet one-way delay: 207.036 ms

Loss rate: 11.93%

-- Flow 1:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 258.244 ms

Loss rate: 19.40%

-- Flow 2:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 165.075 ms

Loss rate: 6.82%

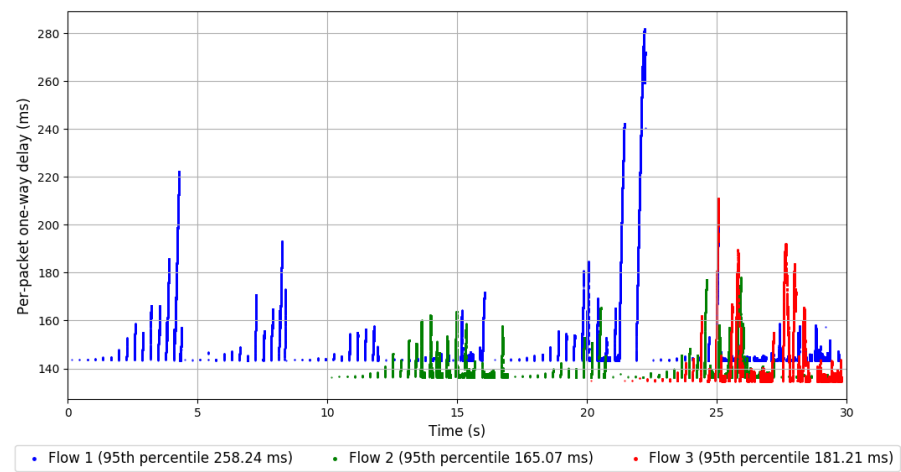
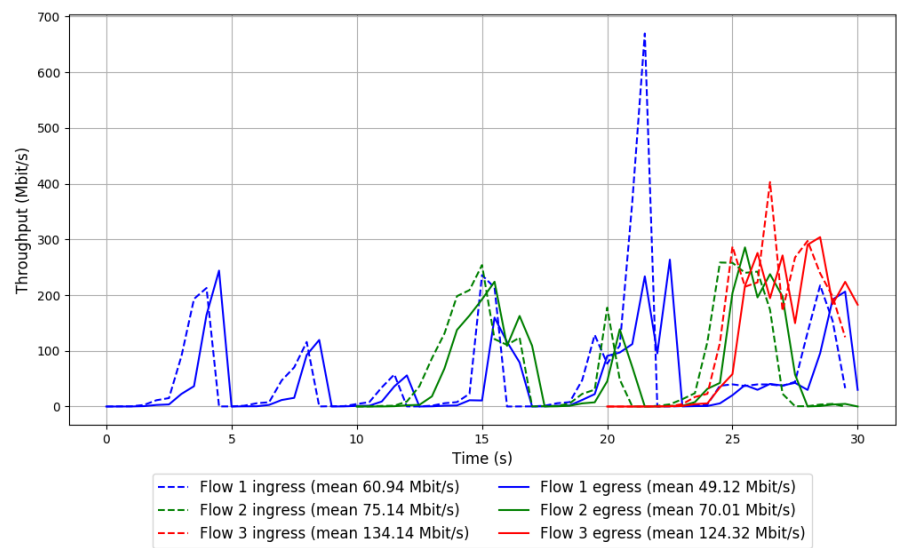
-- Flow 3:

Average throughput: 124.32 Mbit/s

95th percentile per-packet one-way delay: 181.211 ms

Loss rate: 7.32%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-12-02 06:47:35

End at: 2018-12-02 06:48:05

Local clock offset: 6.158 ms

Remote clock offset: 4.345 ms

Below is generated by plot.py at 2018-12-02 07:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.24 Mbit/s

95th percentile per-packet one-way delay: 171.435 ms

Loss rate: 8.45%

-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 174.583 ms

Loss rate: 5.92%

-- Flow 2:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 159.340 ms

Loss rate: 9.75%

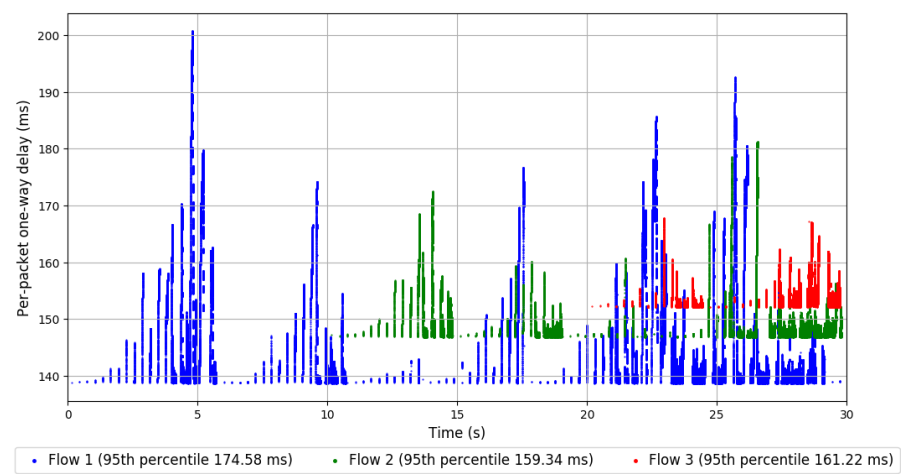
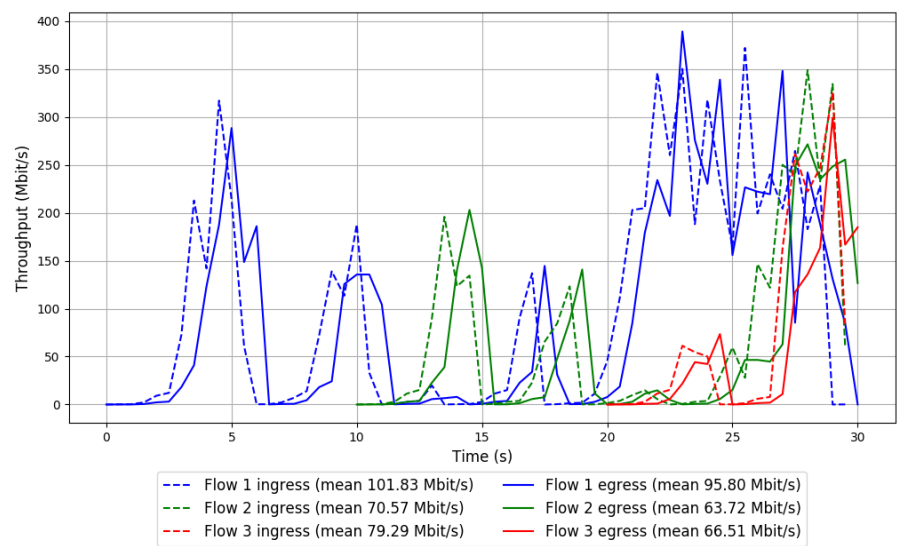
-- Flow 3:

Average throughput: 66.51 Mbit/s

95th percentile per-packet one-way delay: 161.217 ms

Loss rate: 16.11%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-12-02 07:19:04

End at: 2018-12-02 07:19:34

Local clock offset: 5.871 ms

Remote clock offset: 4.951 ms

Below is generated by plot.py at 2018-12-02 07:53:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.39 Mbit/s

95th percentile per-packet one-way delay: 268.934 ms

Loss rate: 33.08%

-- Flow 1:

Average throughput: 185.32 Mbit/s

95th percentile per-packet one-way delay: 271.509 ms

Loss rate: 37.14%

-- Flow 2:

Average throughput: 55.07 Mbit/s

95th percentile per-packet one-way delay: 153.541 ms

Loss rate: 11.68%

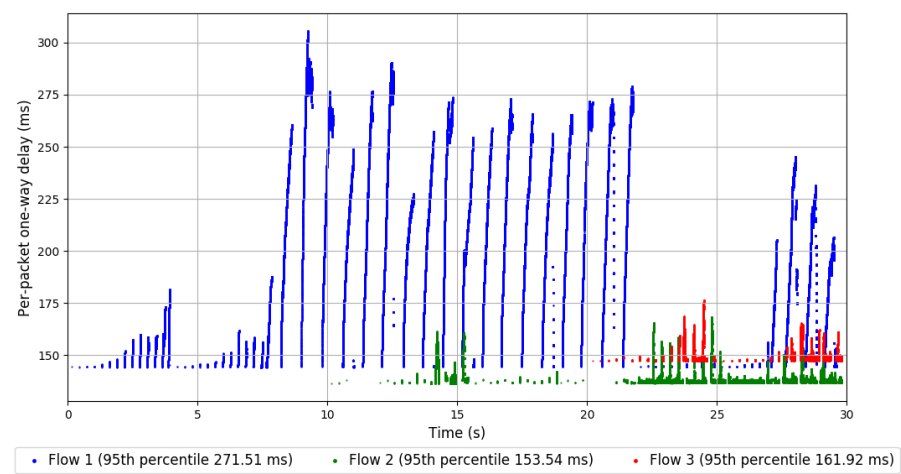
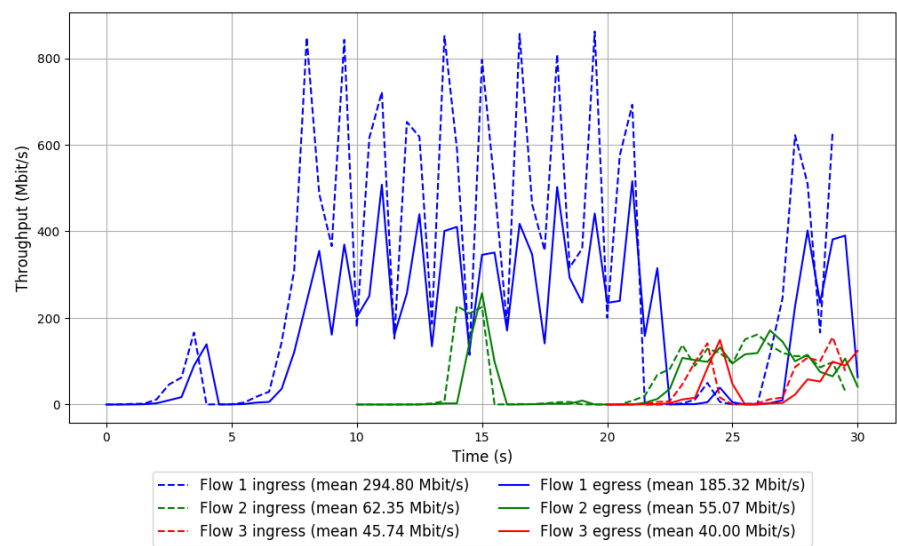
-- Flow 3:

Average throughput: 40.00 Mbit/s

95th percentile per-packet one-way delay: 161.921 ms

Loss rate: 12.66%

Run 5: Report of Verus — Data Link

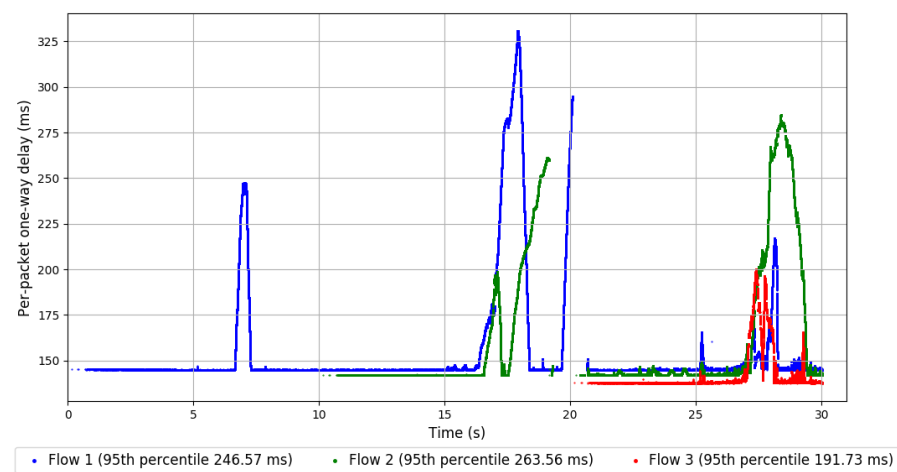
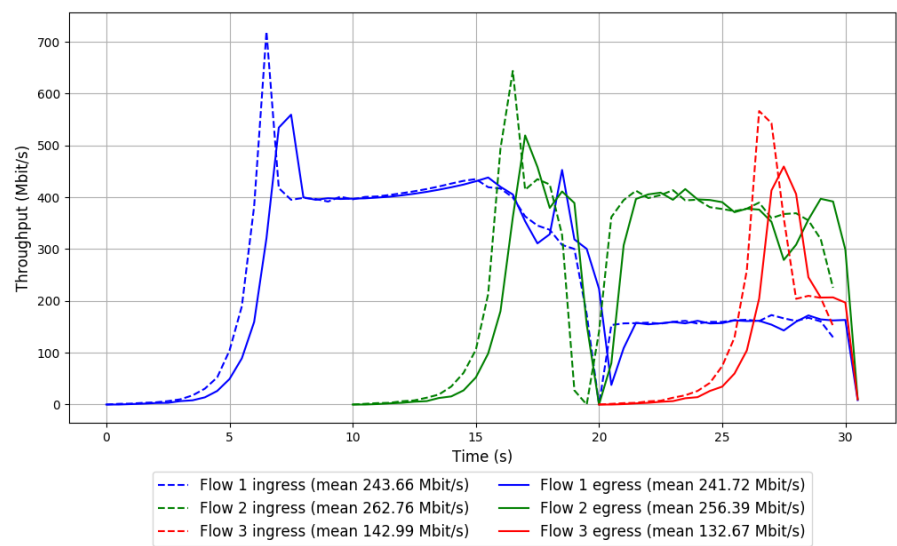


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-02 05:04:25
End at: 2018-12-02 05:04:55
Local clock offset: 8.512 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-12-02 07:55:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 456.07 Mbit/s
95th percentile per-packet one-way delay: 259.991 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 241.72 Mbit/s
95th percentile per-packet one-way delay: 246.573 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 256.39 Mbit/s
95th percentile per-packet one-way delay: 263.556 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 132.67 Mbit/s
95th percentile per-packet one-way delay: 191.733 ms
Loss rate: 7.24%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-12-02 05:35:54

End at: 2018-12-02 05:36:24

Local clock offset: 7.351 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-12-02 07:55:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.98 Mbit/s

95th percentile per-packet one-way delay: 190.095 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 196.85 Mbit/s

95th percentile per-packet one-way delay: 203.954 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 230.11 Mbit/s

95th percentile per-packet one-way delay: 190.425 ms

Loss rate: 0.81%

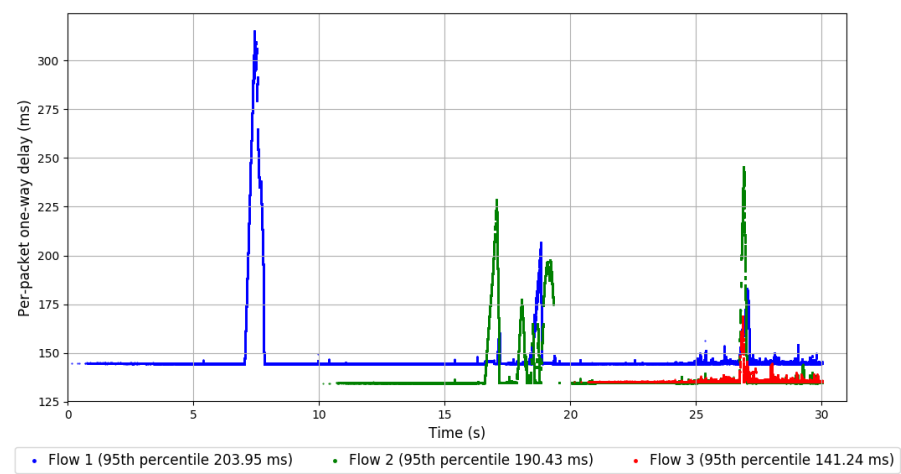
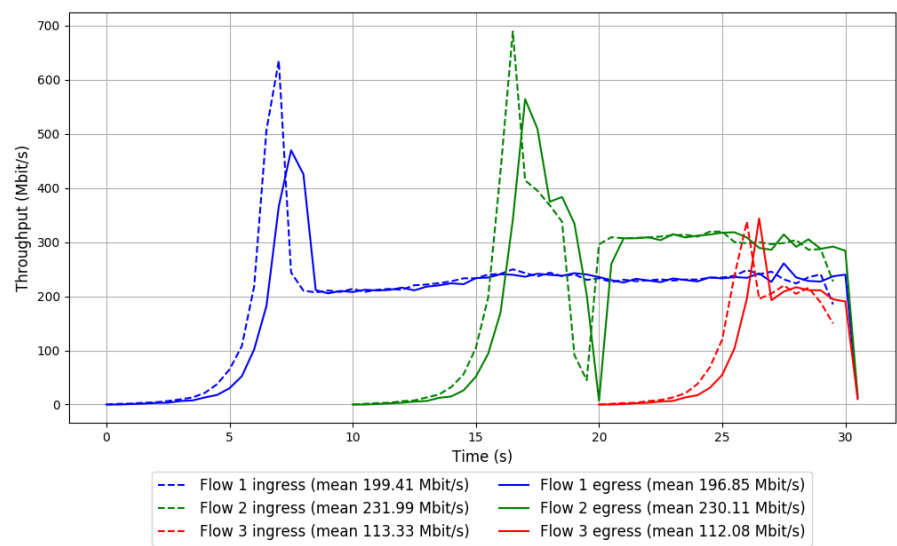
-- Flow 3:

Average throughput: 112.08 Mbit/s

95th percentile per-packet one-way delay: 141.235 ms

Loss rate: 1.12%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-12-02 06:07:18

End at: 2018-12-02 06:07:48

Local clock offset: 7.621 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-12-02 07:55:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.95 Mbit/s

95th percentile per-packet one-way delay: 274.238 ms

Loss rate: 2.79%

-- Flow 1:

Average throughput: 218.91 Mbit/s

95th percentile per-packet one-way delay: 195.090 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 164.37 Mbit/s

95th percentile per-packet one-way delay: 345.951 ms

Loss rate: 4.90%

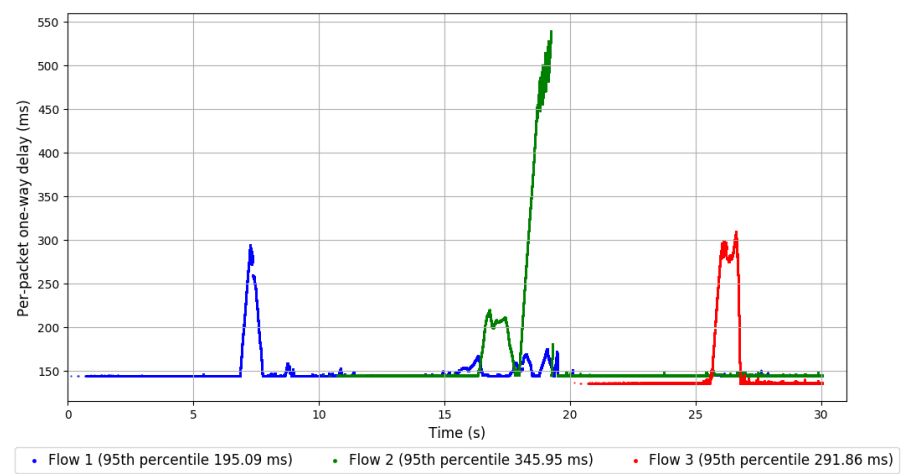
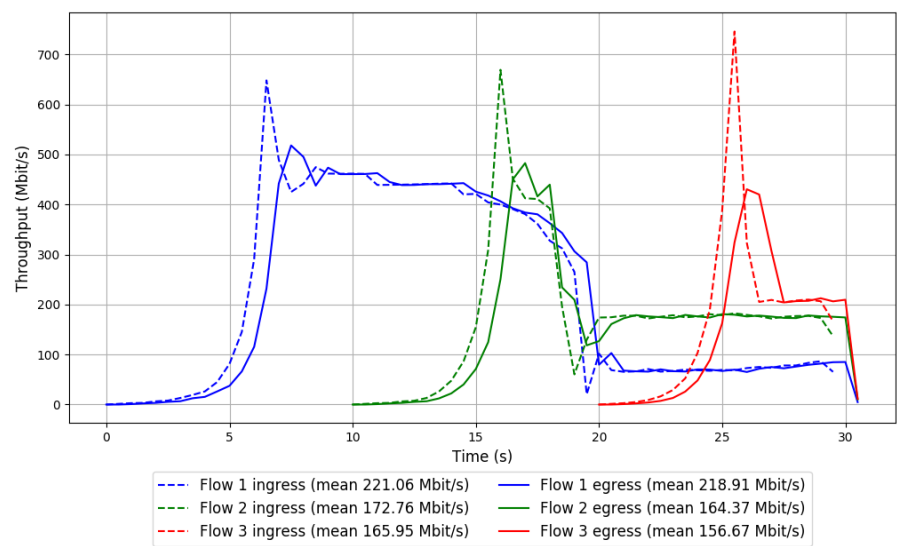
-- Flow 3:

Average throughput: 156.67 Mbit/s

95th percentile per-packet one-way delay: 291.855 ms

Loss rate: 5.60%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-12-02 06:38:45

End at: 2018-12-02 06:39:15

Local clock offset: 7.662 ms

Remote clock offset: 3.883 ms

Below is generated by plot.py at 2018-12-02 07:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.37 Mbit/s

95th percentile per-packet one-way delay: 220.211 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 301.63 Mbit/s

95th percentile per-packet one-way delay: 250.261 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 219.45 Mbit/s

95th percentile per-packet one-way delay: 203.177 ms

Loss rate: 1.12%

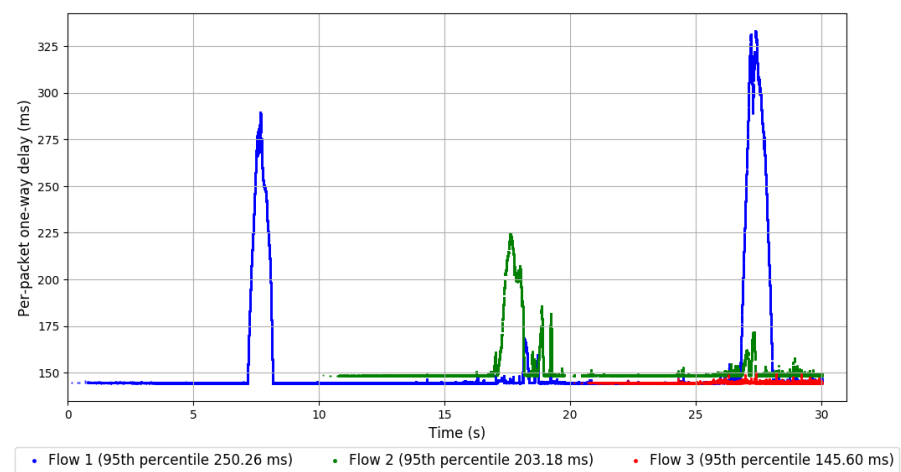
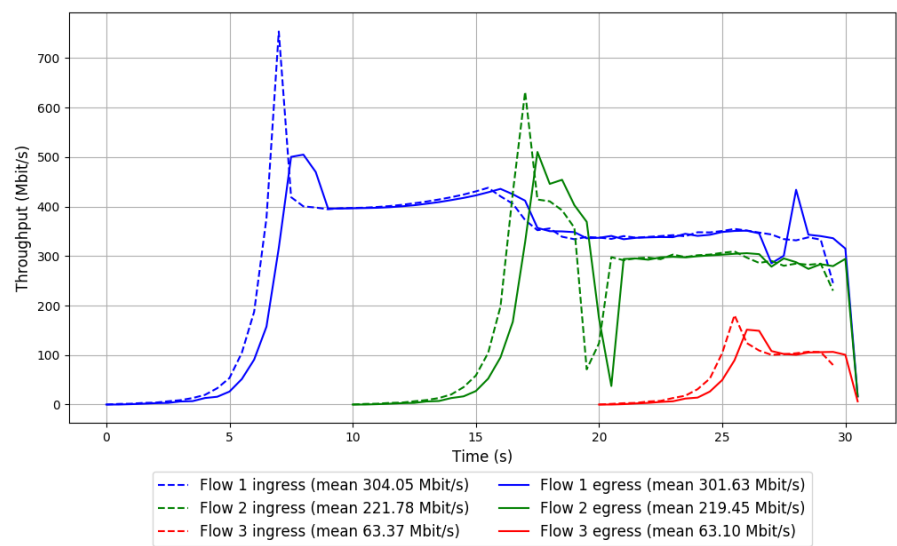
-- Flow 3:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 145.597 ms

Loss rate: 0.53%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-12-02 07:10:07

End at: 2018-12-02 07:10:37

Local clock offset: -4.6 ms

Remote clock offset: 5.293 ms

Below is generated by plot.py at 2018-12-02 07:55:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 481.15 Mbit/s

95th percentile per-packet one-way delay: 238.853 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 308.43 Mbit/s

95th percentile per-packet one-way delay: 230.453 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 206.58 Mbit/s

95th percentile per-packet one-way delay: 330.295 ms

Loss rate: 2.51%

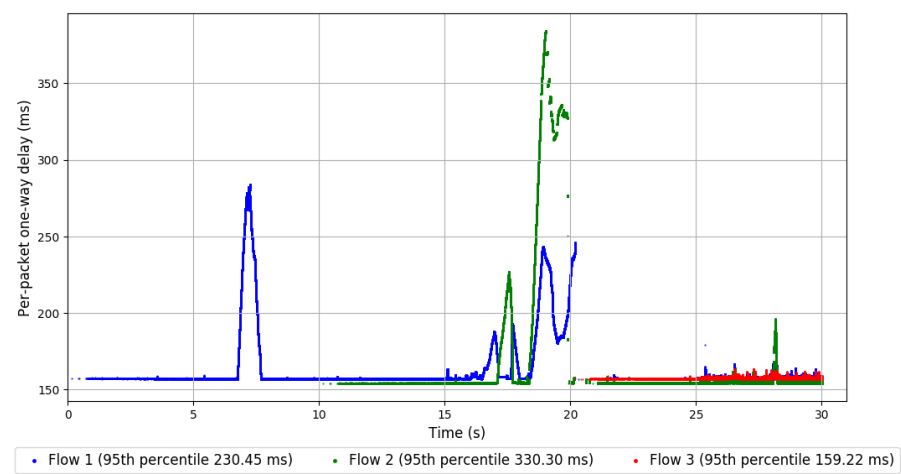
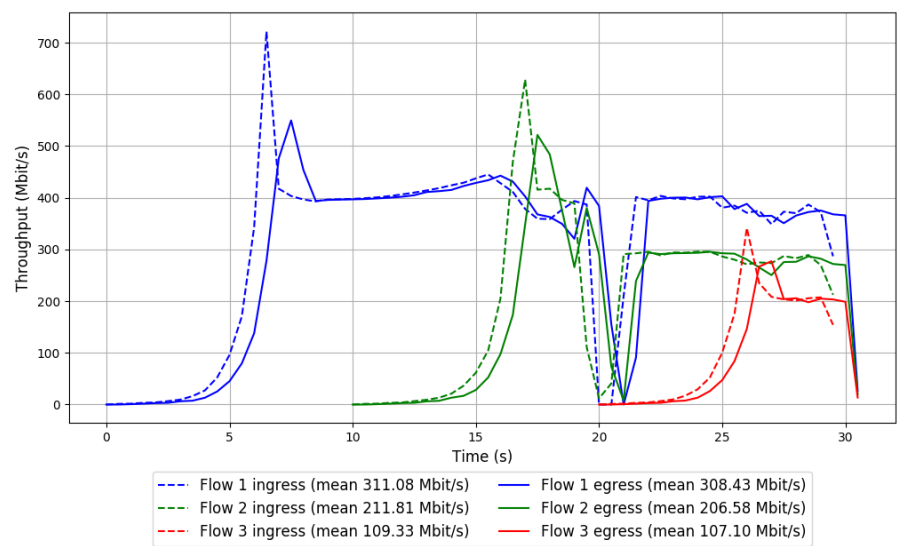
-- Flow 3:

Average throughput: 107.10 Mbit/s

95th percentile per-packet one-way delay: 159.216 ms

Loss rate: 2.15%

Run 5: Report of PCC-Vivace — Data Link

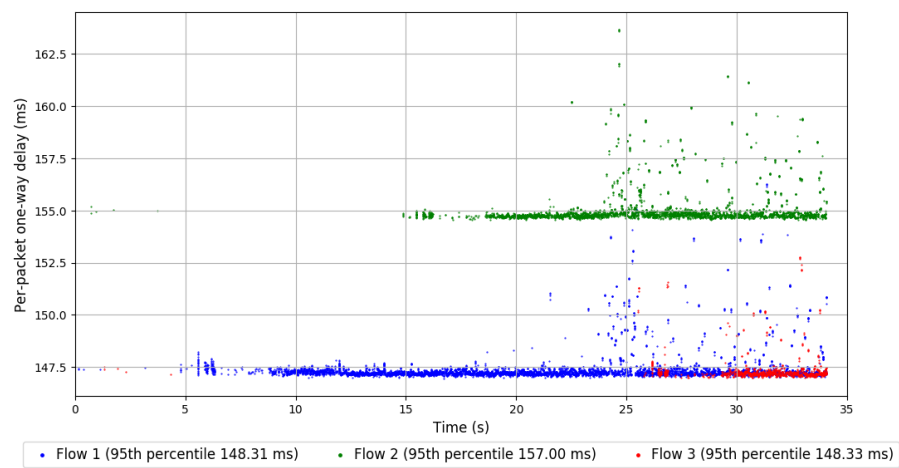
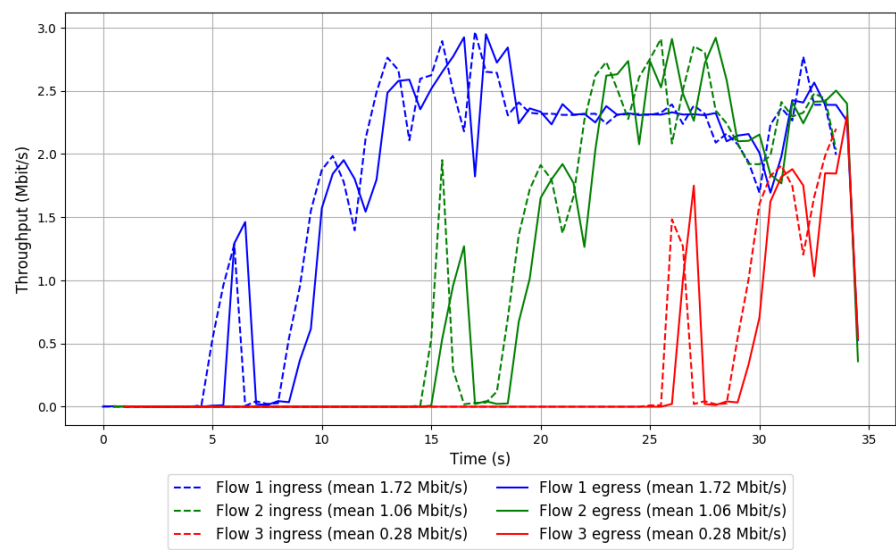


Run 1: Statistics of WebRTC media

Start at: 2018-12-02 04:46:31
End at: 2018-12-02 04:47:01
Local clock offset: -5.325 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-12-02 07:55:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 155.062 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 148.310 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 157.003 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 148.334 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

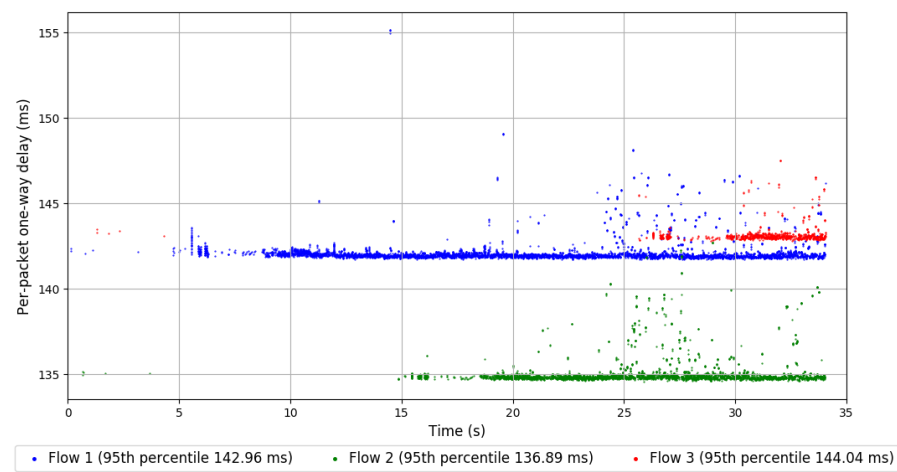
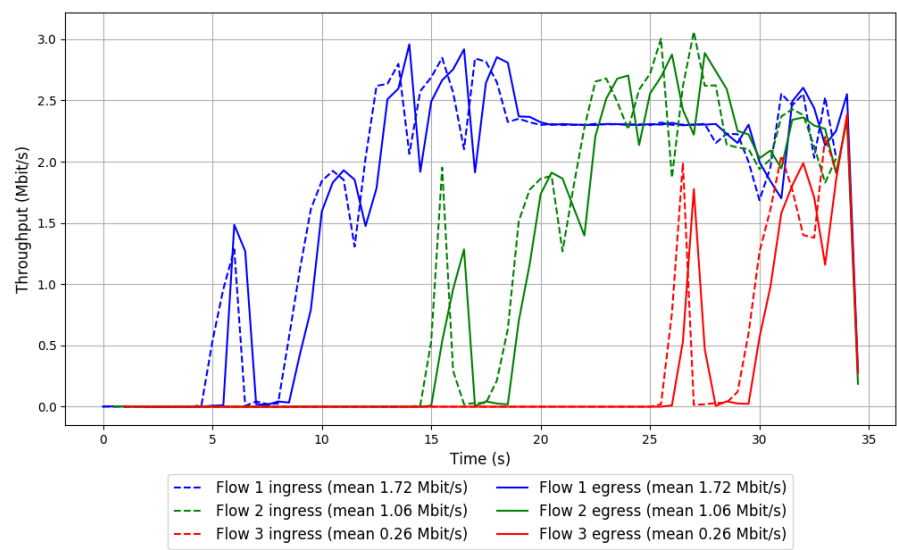


Run 2: Statistics of WebRTC media

Start at: 2018-12-02 05:17:49
End at: 2018-12-02 05:18:19
Local clock offset: 8.795 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-12-02 07:55:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 143.118 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 142.959 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 136.893 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 144.040 ms
Loss rate: 0.01%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-12-02 05:49:16

End at: 2018-12-02 05:49:46

Local clock offset: 6.445 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-12-02 07:55:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 149.883 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 151.091 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 138.073 ms

Loss rate: 0.00%

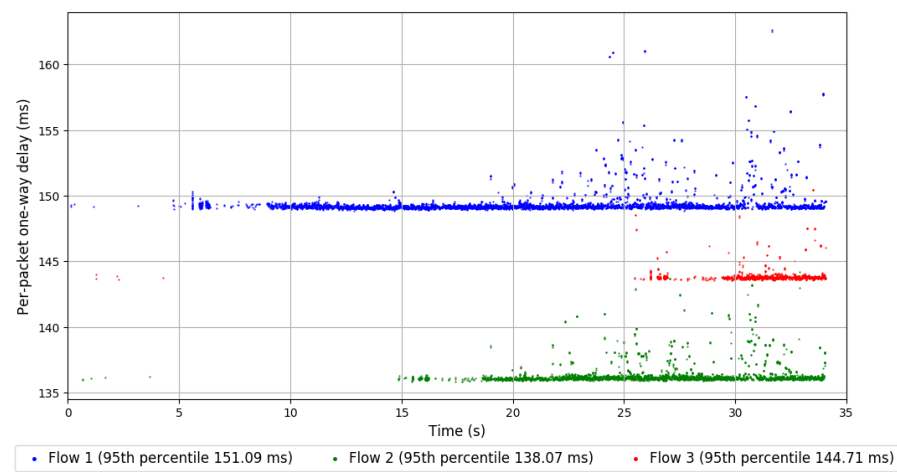
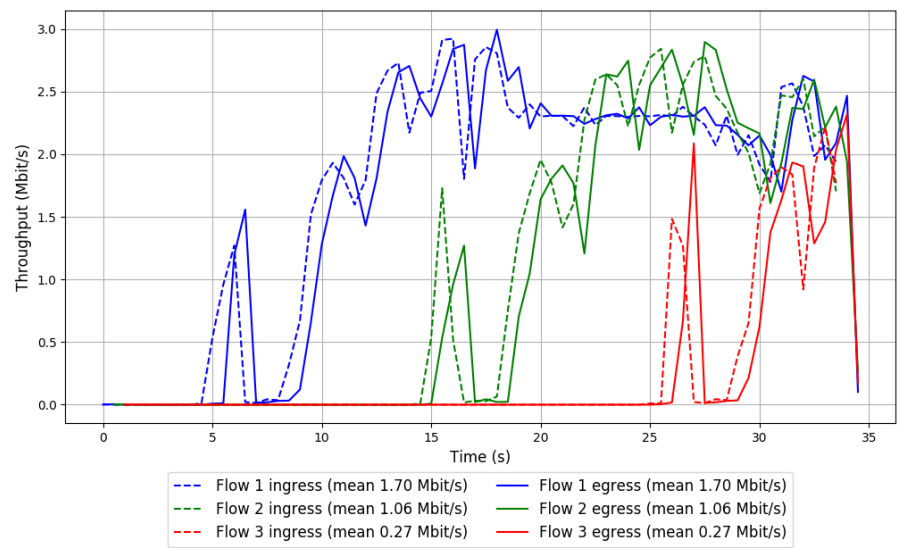
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 144.710 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-12-02 06:20:37

End at: 2018-12-02 06:21:07

Local clock offset: 8.486 ms

Remote clock offset: 2.419 ms

Below is generated by plot.py at 2018-12-02 07:55:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 143.360 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 135.489 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 144.955 ms

Loss rate: 0.00%

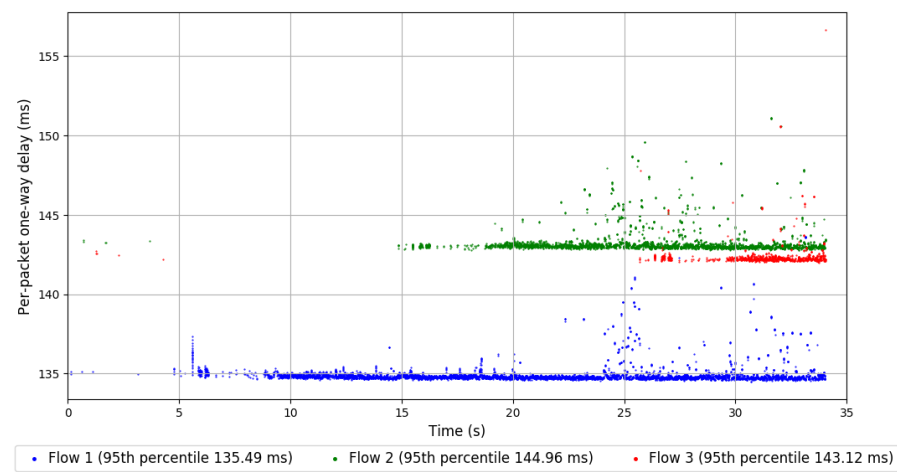
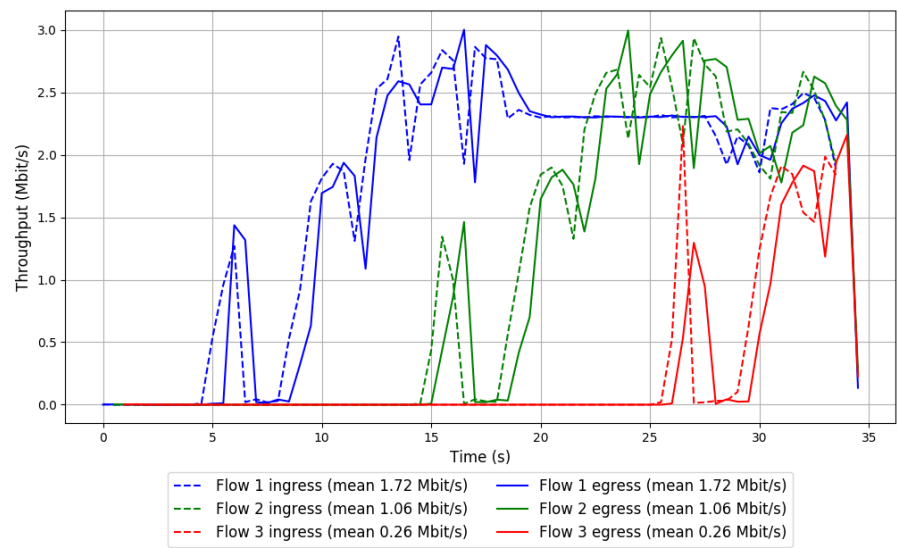
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 143.120 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-02 06:52:08

End at: 2018-12-02 06:52:38

Local clock offset: 6.303 ms

Remote clock offset: 4.524 ms

Below is generated by plot.py at 2018-12-02 07:55:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 149.481 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 144.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 145.934 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 150.854 ms

Loss rate: 0.20%

Run 5: Report of WebRTC media — Data Link

