

## Pantheon Report

Generated at 2018-09-25 20:12:29 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

Repeated the test of 19 congestion control schemes 5 times.

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

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

### System info:

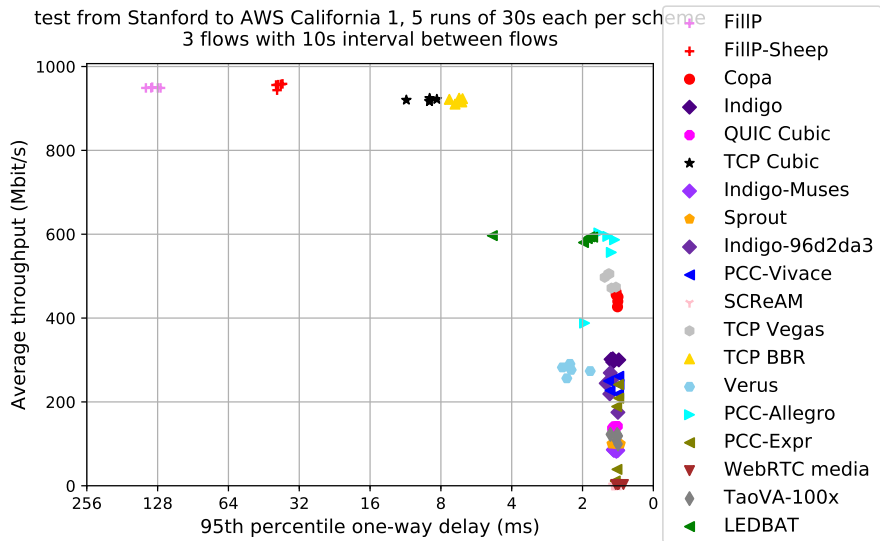
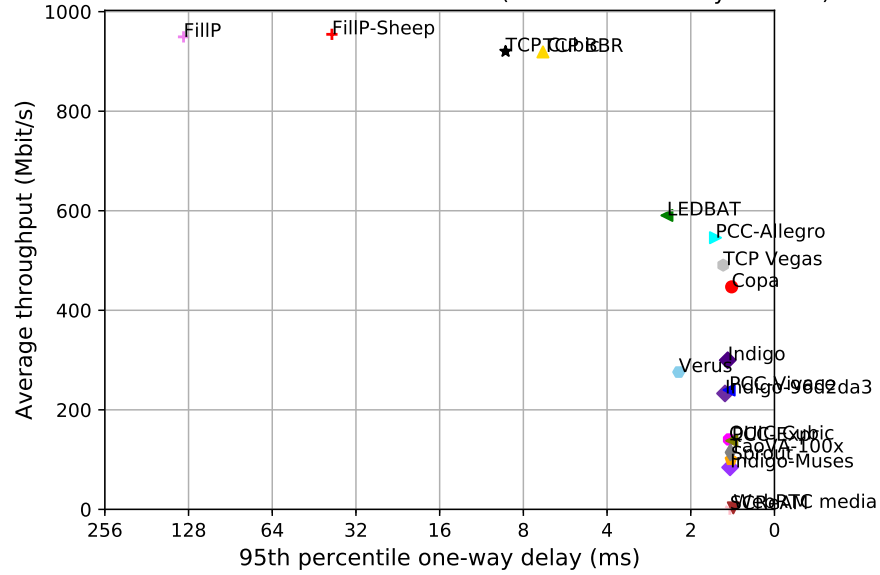
```
Linux 4.15.0-1021-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
net.ipv4.tcp_mem = 184101 245469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

### Git summary:

```
branch: muses @ 90192f6b64ce1a1191dcca0e9ff9ee24950674d7
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ cbfce6db5ff5740dafe1771f813cd646339e1952
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
```

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

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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	540.26	404.86	328.53	6.94	5.87	6.22	0.02	0.03	0.06
Copa	5	267.57	209.76	119.90	1.02	1.02	1.02	0.00	0.01	0.02
TCP Cubic	5	545.29	398.73	328.51	9.67	6.90	7.48	0.03	0.03	0.07
FillP	5	584.91	400.41	295.73	117.41	119.26	152.38	1.85	2.90	3.47
FillP-Sheep	5	580.89	401.97	323.43	37.84	47.54	50.17	0.76	1.21	1.31
Indigo	5	159.75	145.75	130.79	1.07	1.14	1.23	0.01	0.01	0.01
Indigo-96d2da3	5	117.41	117.56	112.47	1.17	1.19	1.21	0.01	0.01	0.01
LEDBAT	5	355.26	259.02	189.41	2.72	2.00	1.73	0.00	0.01	0.02
Indigo-Muses	5	40.63	42.25	47.09	1.06	1.06	1.05	0.01	0.01	0.02
PCC-Allegro	5	427.40	117.54	122.40	1.36	1.43	1.55	0.00	0.01	0.01
PCC-Expr	5	121.97	9.84	28.57	1.02	1.00	1.00	0.00	0.00	0.03
QUIC Cubic	5	76.29	68.15	56.83	1.08	1.09	1.10	0.00	0.01	0.02
SCReAM	5	0.22	0.22	0.22	1.07	1.05	1.02	0.00	0.00	0.14
Sprout	5	50.24	50.16	49.96	1.04	1.04	1.02	0.00	0.01	0.00
TaoVA-100x	5	86.08	16.93	51.41	1.05	1.05	1.06	0.01	0.00	0.02
TCP Vegas	5	241.37	251.83	245.35	1.22	1.29	1.23	0.01	0.01	0.01
Verus	5	176.67	107.98	82.69	2.34	1.80	1.43	0.00	0.01	0.02
PCC-Vivace	5	155.66	96.79	60.00	1.07	1.11	1.15	0.00	0.00	0.02
WebRTC media	5	1.43	1.08	0.48	0.98	0.98	0.97	0.00	0.00	0.00



Run 1: Statistics of TCP BBR

Start at: 2018-09-25 16:55:49

End at: 2018-09-25 16:56:19

Local clock offset: 0.928 ms

Remote clock offset: 4.68 ms

# Below is generated by plot.py at 2018-09-25 19:20:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 923.45 Mbit/s

95th percentile per-packet one-way delay: 6.474 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 544.30 Mbit/s

95th percentile per-packet one-way delay: 6.587 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 405.32 Mbit/s

95th percentile per-packet one-way delay: 5.872 ms

Loss rate: 0.02%

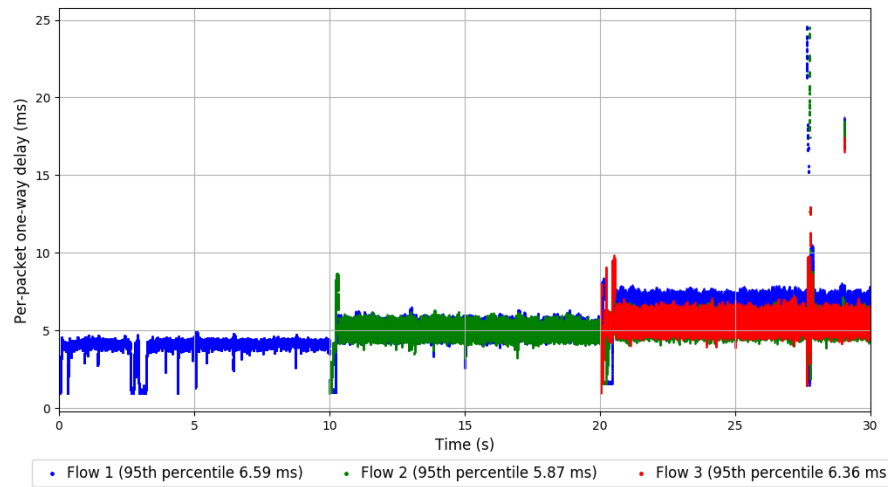
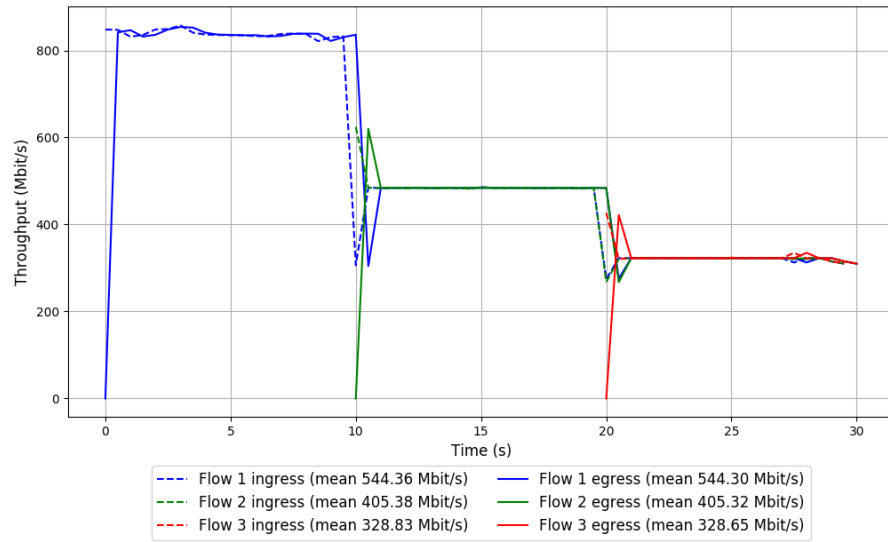
-- Flow 3:

Average throughput: 328.65 Mbit/s

95th percentile per-packet one-way delay: 6.363 ms

Loss rate: 0.06%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

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

Local clock offset: 0.247 ms

Remote clock offset: 0.58 ms

# Below is generated by plot.py at 2018-09-25 19:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 924.44 Mbit/s

95th percentile per-packet one-way delay: 6.691 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 546.39 Mbit/s

95th percentile per-packet one-way delay: 6.829 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 403.84 Mbit/s

95th percentile per-packet one-way delay: 5.821 ms

Loss rate: 0.03%

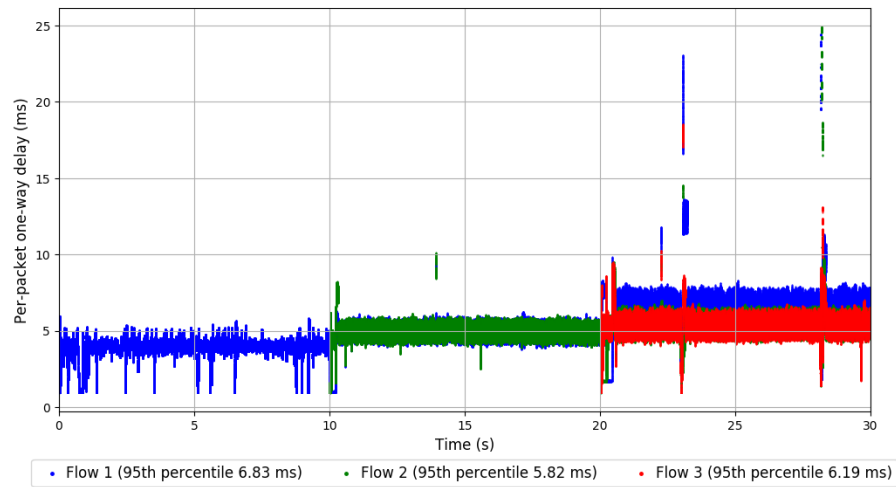
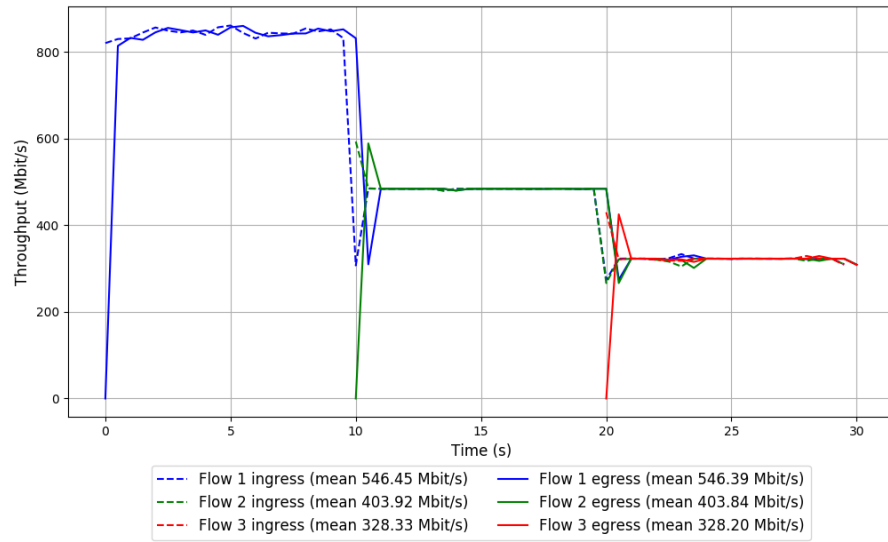
-- Flow 3:

Average throughput: 328.20 Mbit/s

95th percentile per-packet one-way delay: 6.190 ms

Loss rate: 0.06%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-09-25 17:54:58

End at: 2018-09-25 17:55:28

Local clock offset: 0.625 ms

Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-09-25 19:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 921.70 Mbit/s

95th percentile per-packet one-way delay: 7.365 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 542.29 Mbit/s

95th percentile per-packet one-way delay: 7.521 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 405.25 Mbit/s

95th percentile per-packet one-way delay: 5.795 ms

Loss rate: 0.05%

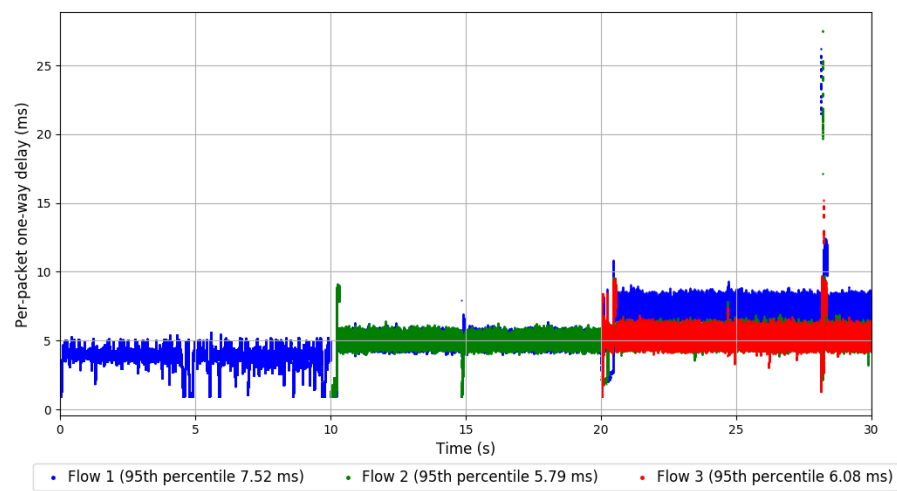
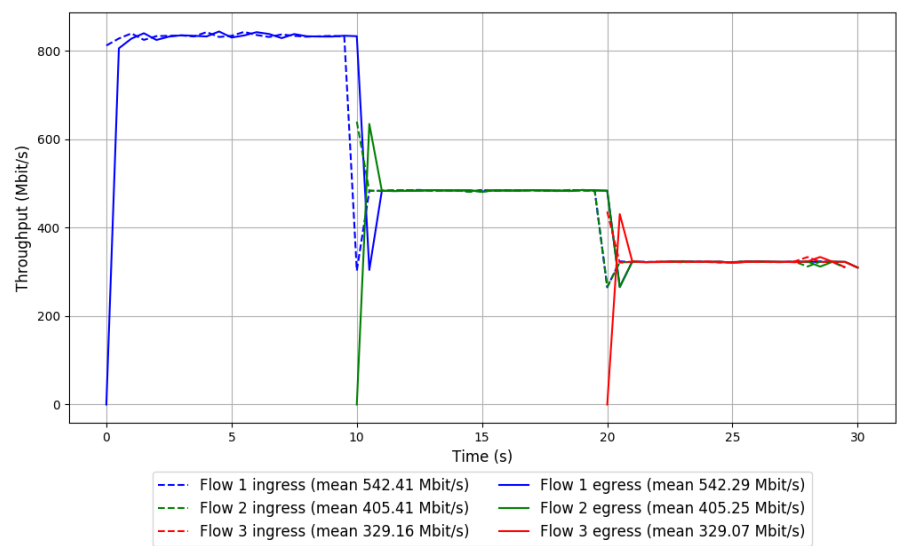
-- Flow 3:

Average throughput: 329.07 Mbit/s

95th percentile per-packet one-way delay: 6.083 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-09-25 18:24:24

End at: 2018-09-25 18:24:54

Local clock offset: 0.427 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-09-25 19:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 915.58 Mbit/s

95th percentile per-packet one-way delay: 6.522 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 536.27 Mbit/s

95th percentile per-packet one-way delay: 6.651 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 405.38 Mbit/s

95th percentile per-packet one-way delay: 5.946 ms

Loss rate: 0.03%

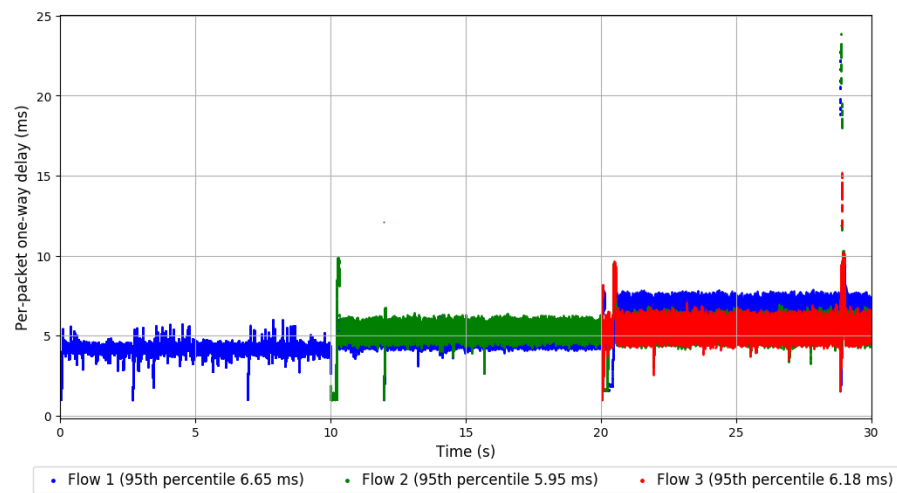
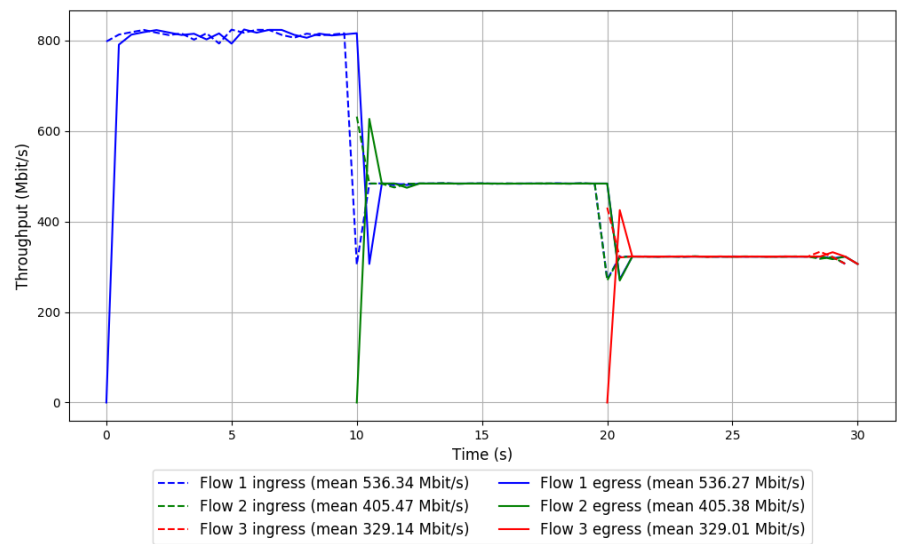
-- Flow 3:

Average throughput: 329.01 Mbit/s

95th percentile per-packet one-way delay: 6.178 ms

Loss rate: 0.06%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2018-09-25 18:53:56

End at: 2018-09-25 18:54:26

Local clock offset: 0.432 ms

Remote clock offset: 2.901 ms

# Below is generated by plot.py at 2018-09-25 19:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 910.35 Mbit/s

95th percentile per-packet one-way delay: 6.965 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 532.04 Mbit/s

95th percentile per-packet one-way delay: 7.110 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 404.49 Mbit/s

95th percentile per-packet one-way delay: 5.907 ms

Loss rate: 0.03%

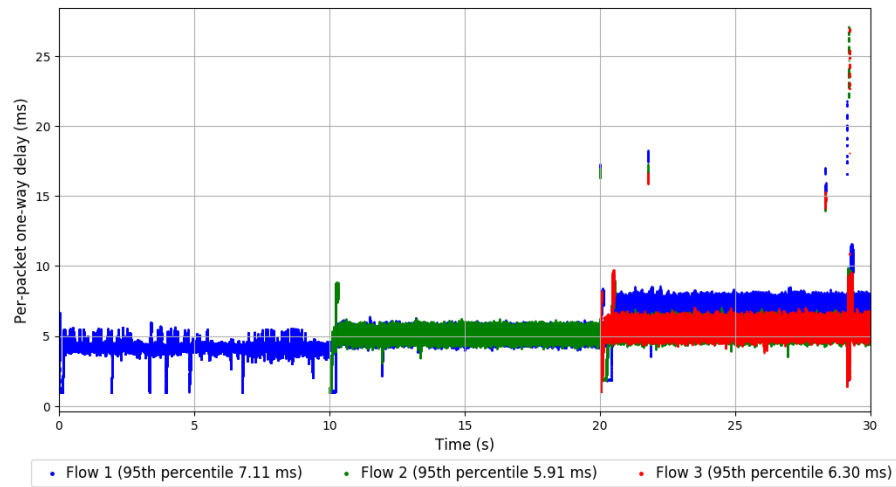
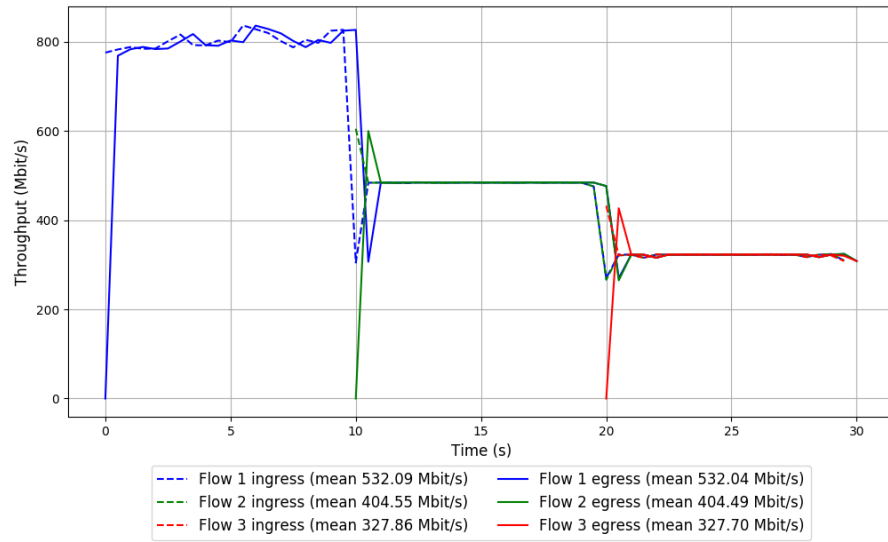
-- Flow 3:

Average throughput: 327.70 Mbit/s

95th percentile per-packet one-way delay: 6.302 ms

Loss rate: 0.06%

## Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-09-25 16:57:38

End at: 2018-09-25 16:58:08

Local clock offset: 0.945 ms

Remote clock offset: 4.944 ms

# Below is generated by plot.py at 2018-09-25 19:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 450.44 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 267.06 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 204.45 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.00%

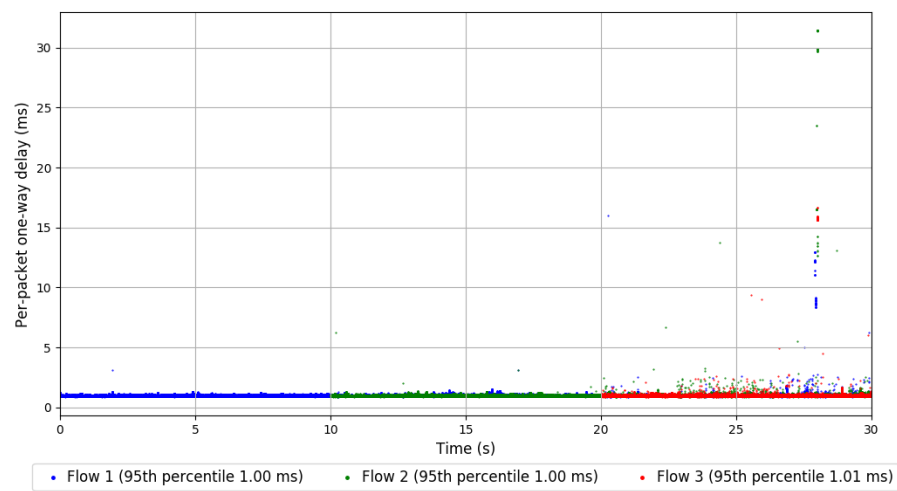
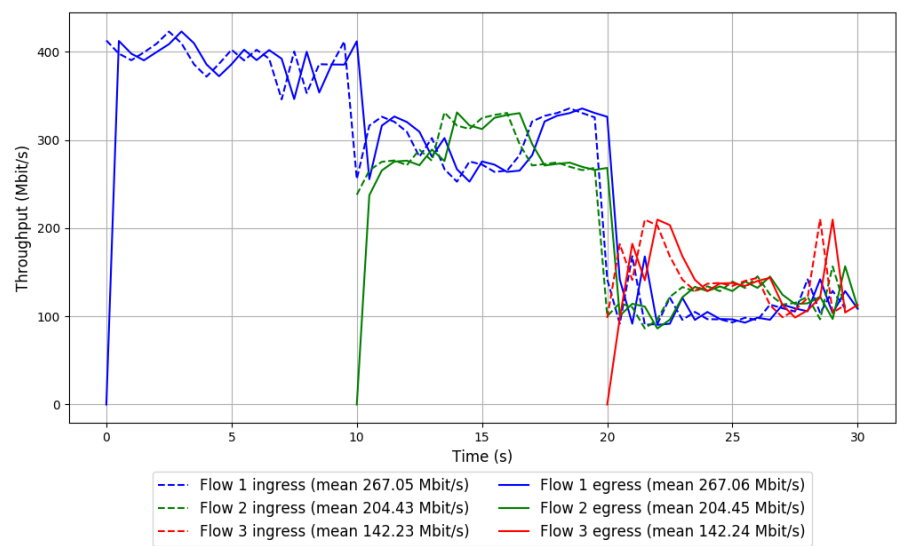
-- Flow 3:

Average throughput: 142.24 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-09-25 17:27:14

End at: 2018-09-25 17:27:44

Local clock offset: 0.22 ms

Remote clock offset: 0.526 ms

# Below is generated by plot.py at 2018-09-25 19:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 462.72 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 282.12 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 218.74 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.03%

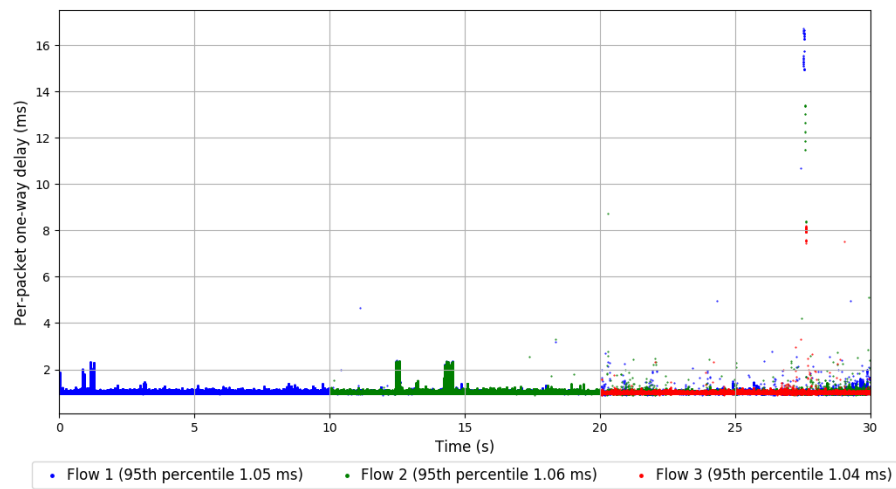
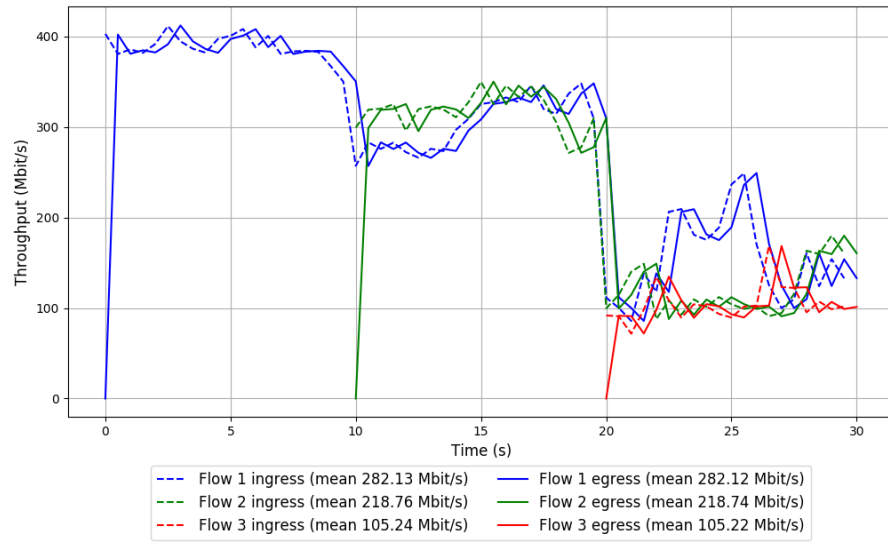
-- Flow 3:

Average throughput: 105.22 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.03%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-09-25 17:56:48

End at: 2018-09-25 17:57:18

Local clock offset: 0.694 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-09-25 19:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 439.96 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 269.42 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 192.26 Mbit/s

95th percentile per-packet one-way delay: 0.997 ms

Loss rate: 0.01%

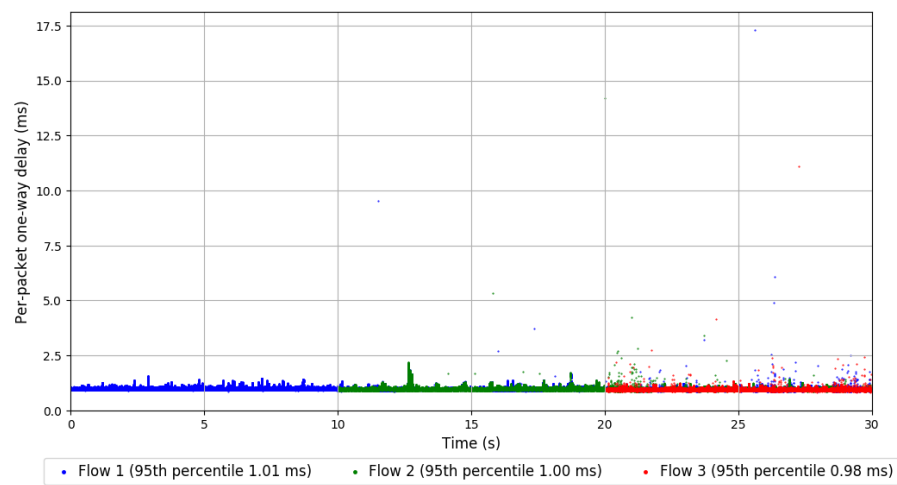
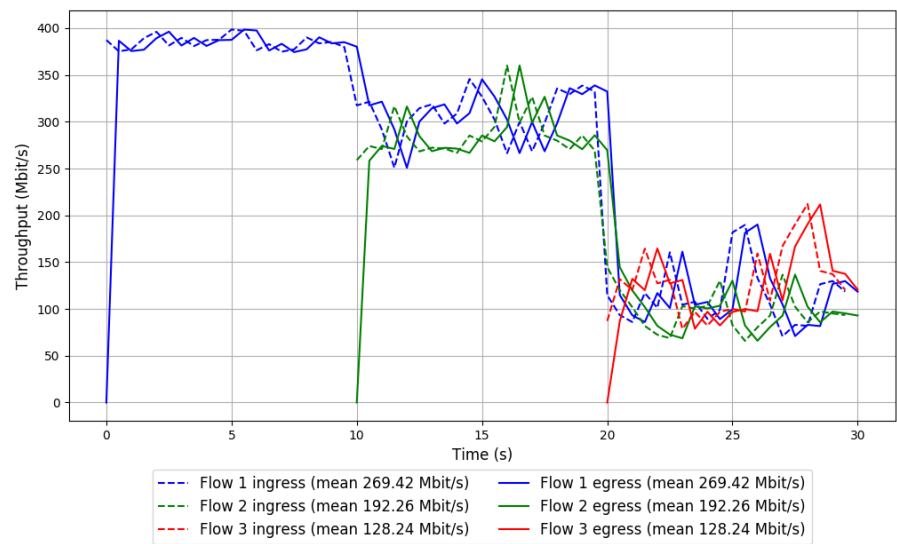
-- Flow 3:

Average throughput: 128.24 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2018-09-25 18:26:13

End at: 2018-09-25 18:26:43

Local clock offset: 0.402 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-09-25 19:28:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 426.89 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 248.65 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 207.36 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.00%

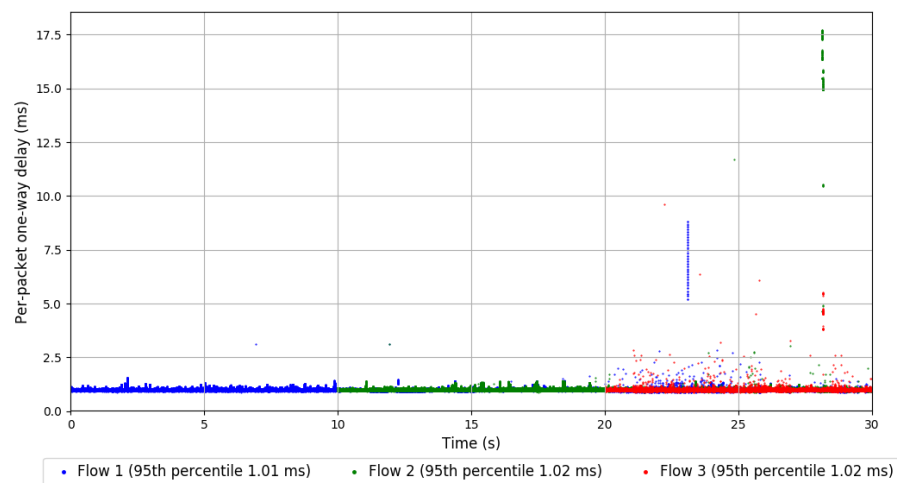
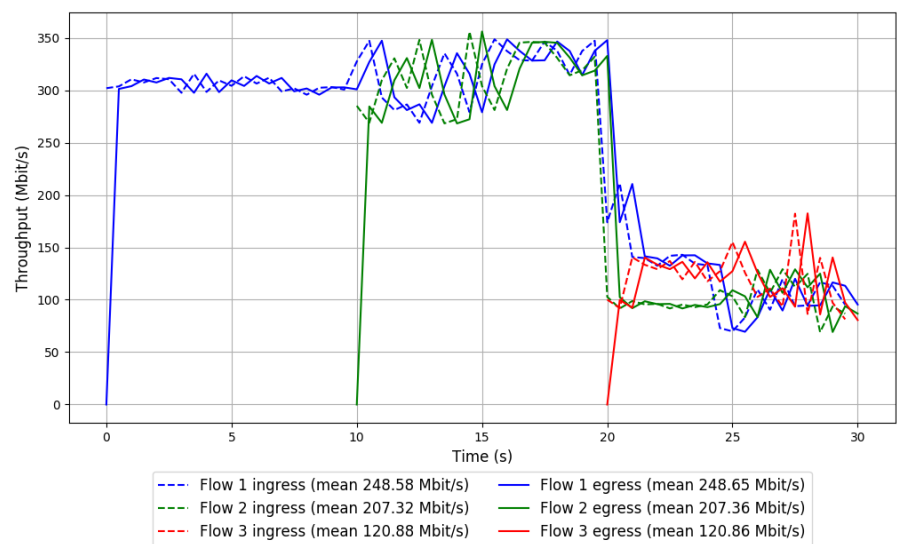
-- Flow 3:

Average throughput: 120.86 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-09-25 18:55:45

End at: 2018-09-25 18:56:15

Local clock offset: 0.429 ms

Remote clock offset: 3.126 ms

# Below is generated by plot.py at 2018-09-25 19:29:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 455.26 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 270.62 Mbit/s

95th percentile per-packet one-way delay: 1.056 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 226.00 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.00%

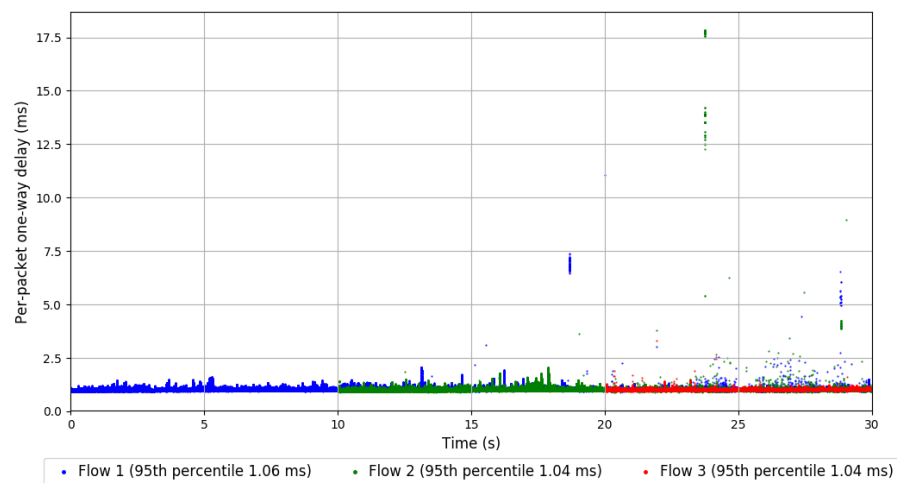
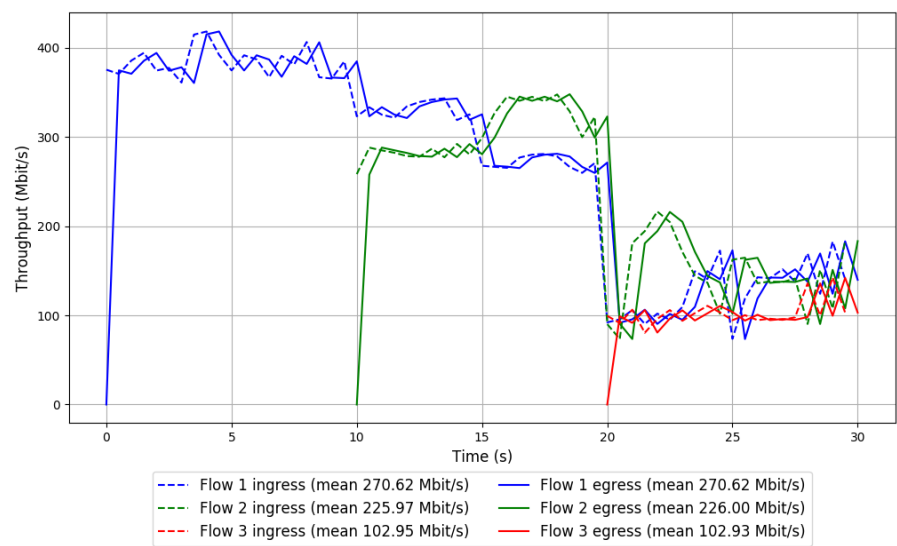
-- Flow 3:

Average throughput: 102.93 Mbit/s

95th percentile per-packet one-way delay: 1.039 ms

Loss rate: 0.03%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-09-25 16:37:06

End at: 2018-09-25 16:37:36

Local clock offset: 1.55 ms

Remote clock offset: 1.487 ms

# Below is generated by plot.py at 2018-09-25 19:30:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 920.07 Mbit/s

95th percentile per-packet one-way delay: 11.216 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 543.20 Mbit/s

95th percentile per-packet one-way delay: 11.654 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 405.97 Mbit/s

95th percentile per-packet one-way delay: 7.713 ms

Loss rate: 0.04%

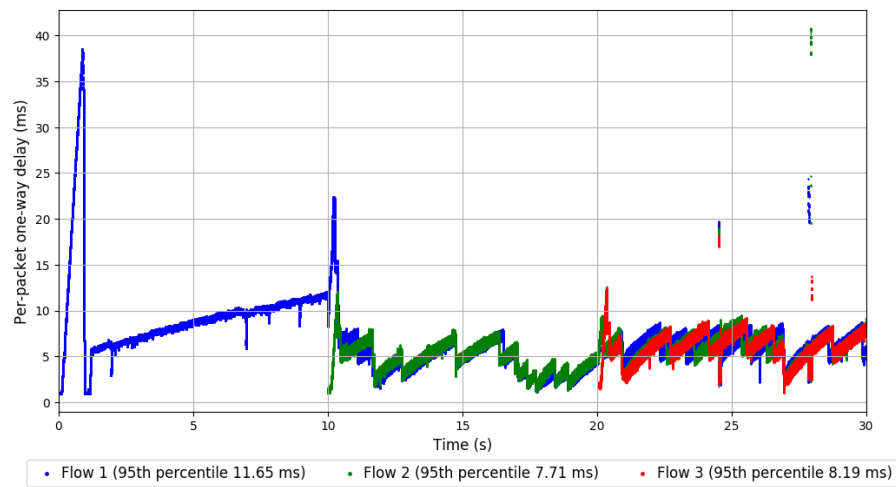
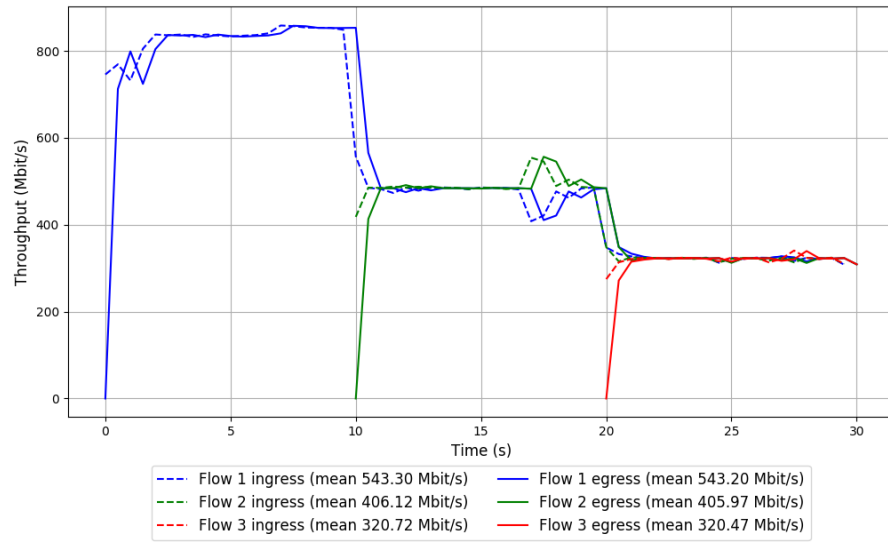
-- Flow 3:

Average throughput: 320.47 Mbit/s

95th percentile per-packet one-way delay: 8.190 ms

Loss rate: 0.10%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-09-25 17:06:32

End at: 2018-09-25 17:07:02

Local clock offset: 0.981 ms

Remote clock offset: 1.977 ms

# Below is generated by plot.py at 2018-09-25 19:31:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 916.60 Mbit/s

95th percentile per-packet one-way delay: 8.948 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 544.31 Mbit/s

95th percentile per-packet one-way delay: 9.192 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 381.65 Mbit/s

95th percentile per-packet one-way delay: 4.205 ms

Loss rate: 0.04%

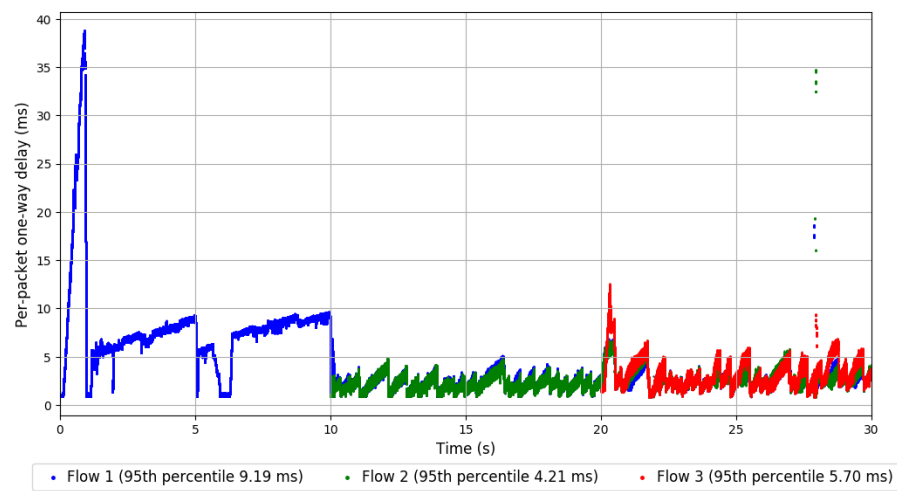
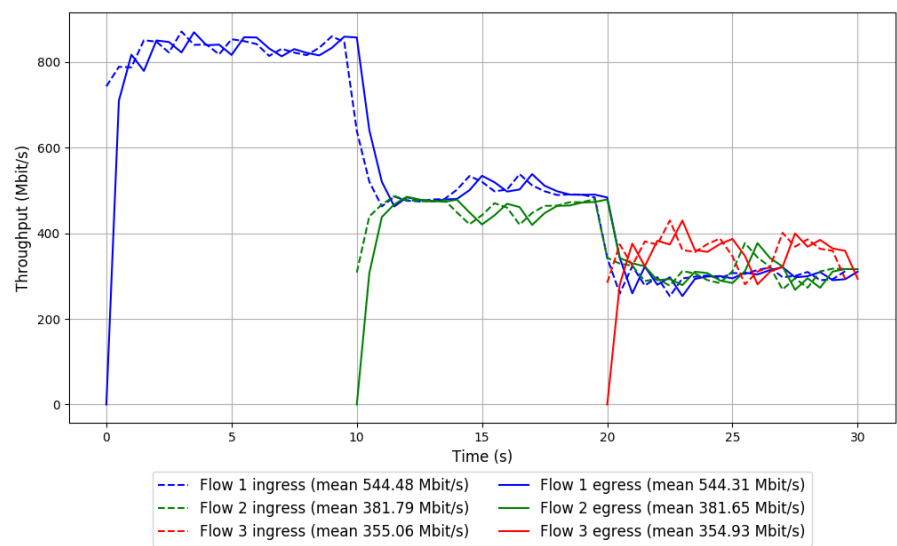
-- Flow 3:

Average throughput: 354.93 Mbit/s

95th percentile per-packet one-way delay: 5.702 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2018-09-25 17:36:09

End at: 2018-09-25 17:36:39

Local clock offset: 0.103 ms

Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2018-09-25 19:31:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 924.23 Mbit/s

95th percentile per-packet one-way delay: 8.934 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 549.34 Mbit/s

95th percentile per-packet one-way delay: 9.196 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 402.19 Mbit/s

95th percentile per-packet one-way delay: 7.569 ms

Loss rate: 0.03%

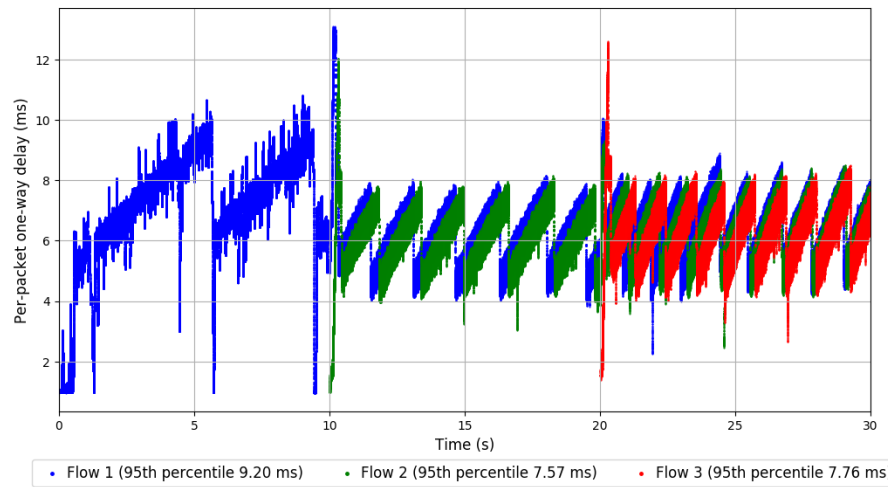
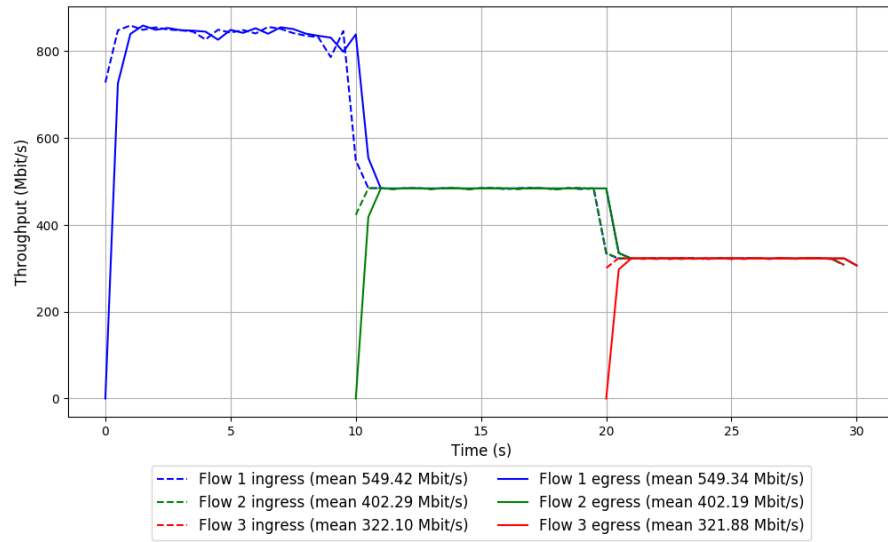
-- Flow 3:

Average throughput: 321.88 Mbit/s

95th percentile per-packet one-way delay: 7.757 ms

Loss rate: 0.08%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-09-25 18:05:31

End at: 2018-09-25 18:06:01

Local clock offset: 0.934 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2018-09-25 19:31:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 917.87 Mbit/s

95th percentile per-packet one-way delay: 8.940 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 542.96 Mbit/s

95th percentile per-packet one-way delay: 9.438 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 402.31 Mbit/s

95th percentile per-packet one-way delay: 7.611 ms

Loss rate: 0.03%

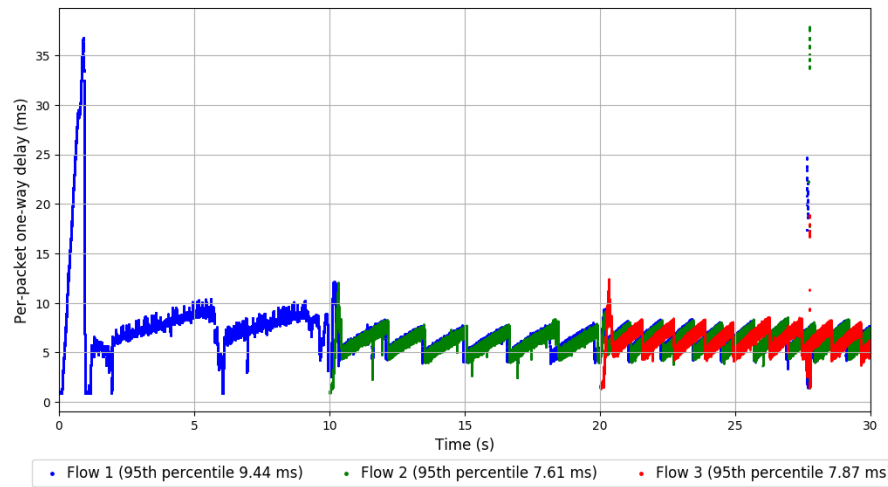
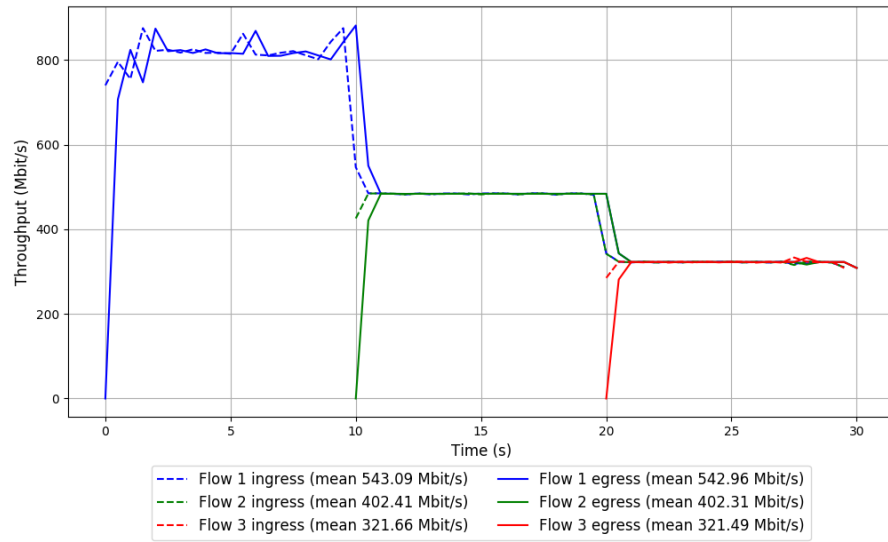
-- Flow 3:

Average throughput: 321.49 Mbit/s

95th percentile per-packet one-way delay: 7.874 ms

Loss rate: 0.07%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-09-25 18:35:05

End at: 2018-09-25 18:35:35

Local clock offset: 0.413 ms

Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-09-25 19:31:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 921.85 Mbit/s

95th percentile per-packet one-way delay: 8.324 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 546.66 Mbit/s

95th percentile per-packet one-way delay: 8.879 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 401.54 Mbit/s

95th percentile per-packet one-way delay: 7.394 ms

Loss rate: 0.03%

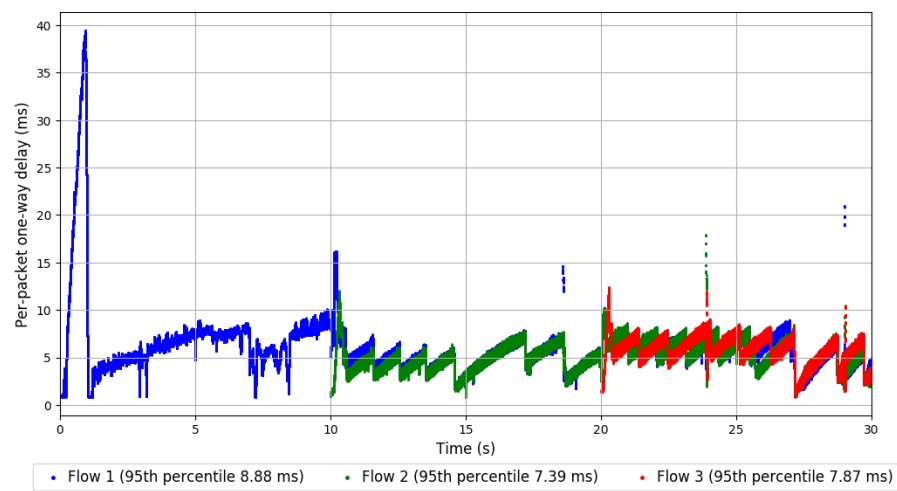
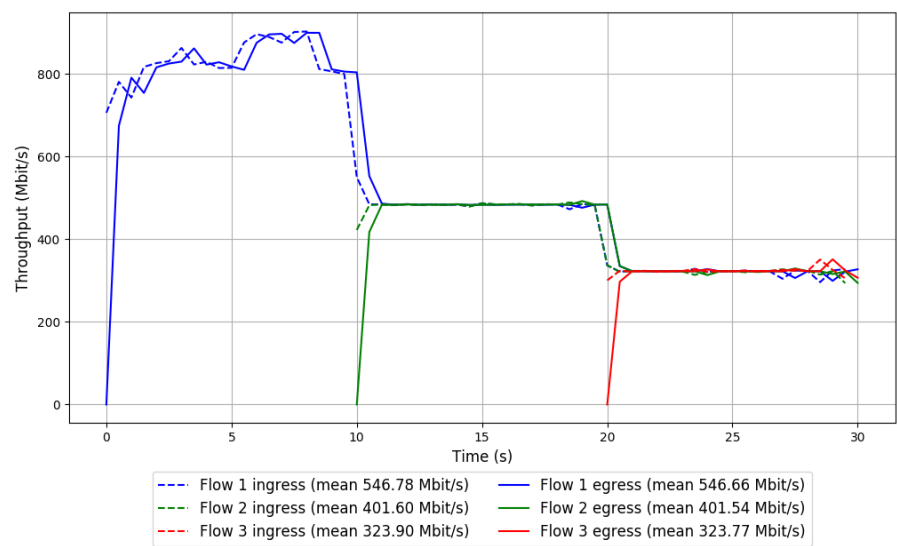
-- Flow 3:

Average throughput: 323.77 Mbit/s

95th percentile per-packet one-way delay: 7.874 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-09-25 16:46:32

End at: 2018-09-25 16:47:02

Local clock offset: 1.067 ms

Remote clock offset: 3.487 ms

# Below is generated by plot.py at 2018-09-25 19:34:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 949.17 Mbit/s

95th percentile per-packet one-way delay: 136.345 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 582.44 Mbit/s

95th percentile per-packet one-way delay: 126.670 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 396.65 Mbit/s

95th percentile per-packet one-way delay: 106.896 ms

Loss rate: 3.42%

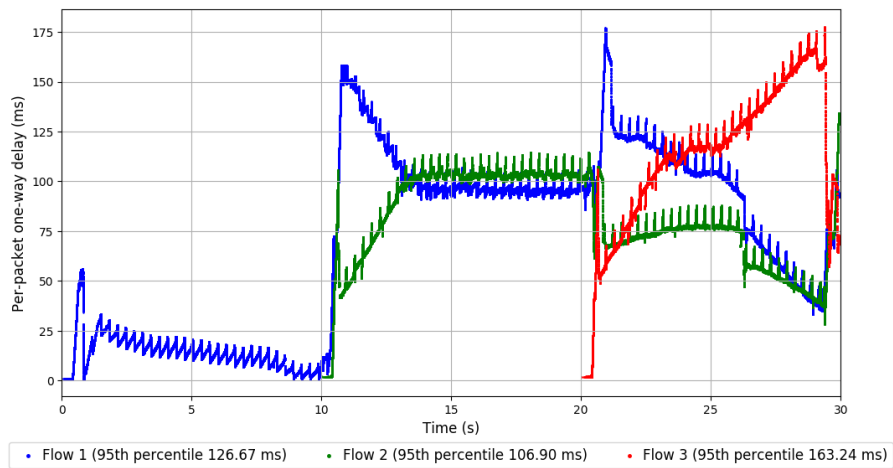
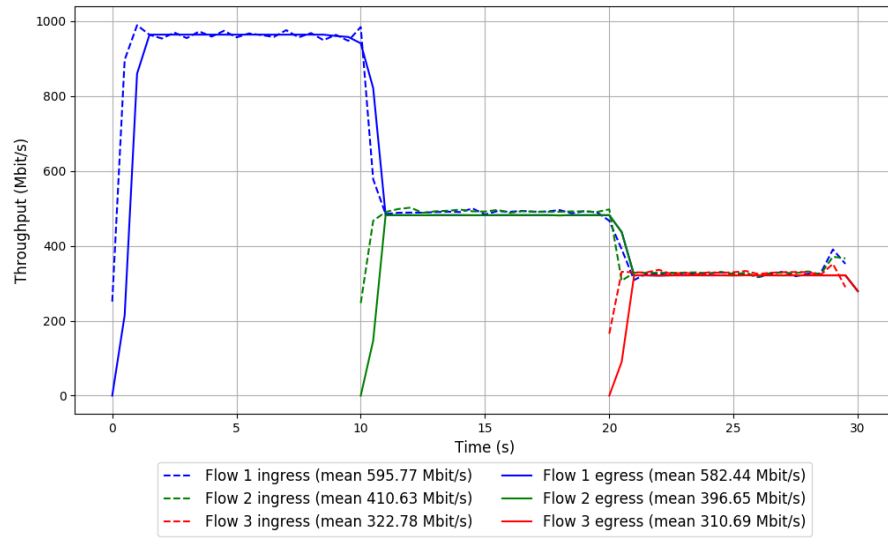
-- Flow 3:

Average throughput: 310.69 Mbit/s

95th percentile per-packet one-way delay: 163.243 ms

Loss rate: 3.77%

# Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2018-09-25 17:16:02

End at: 2018-09-25 17:16:32

Local clock offset: 0.547 ms

Remote clock offset: 0.843 ms

# Below is generated by plot.py at 2018-09-25 19:42:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 948.92 Mbit/s

95th percentile per-packet one-way delay: 124.424 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 582.08 Mbit/s

95th percentile per-packet one-way delay: 104.575 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 396.58 Mbit/s

95th percentile per-packet one-way delay: 104.117 ms

Loss rate: 2.75%

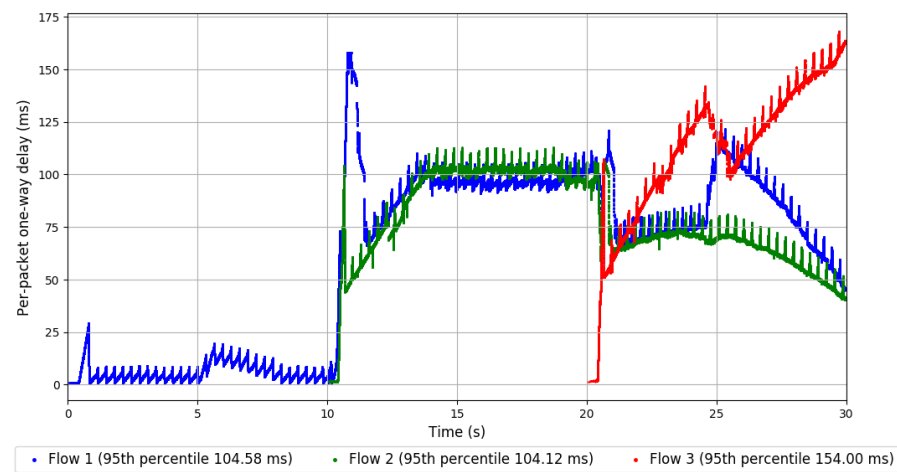
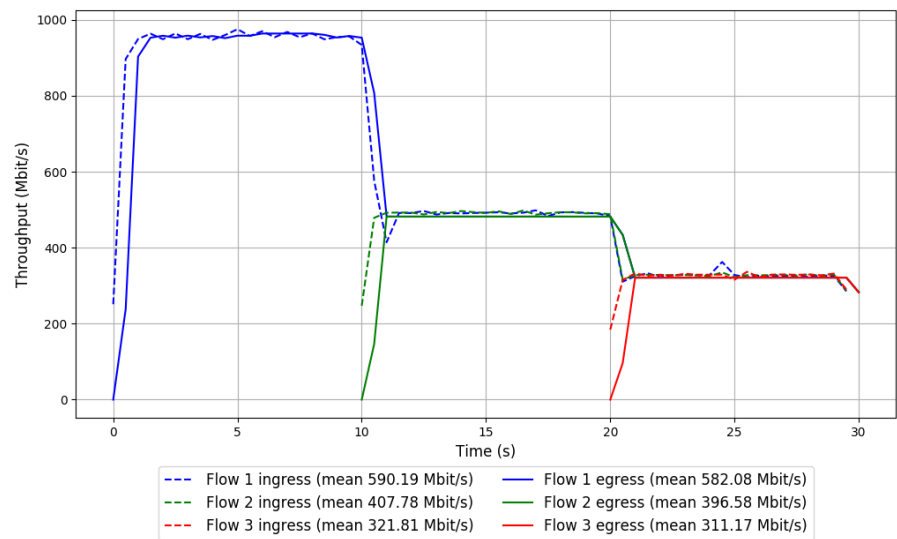
-- Flow 3:

Average throughput: 311.17 Mbit/s

95th percentile per-packet one-way delay: 154.002 ms

Loss rate: 3.32%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-09-25 17:45:34

End at: 2018-09-25 17:46:04

Local clock offset: 0.275 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-09-25 19:43:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 950.69 Mbit/s

95th percentile per-packet one-way delay: 134.945 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 583.48 Mbit/s

95th percentile per-packet one-way delay: 127.966 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 396.43 Mbit/s

95th percentile per-packet one-way delay: 109.046 ms

Loss rate: 2.32%

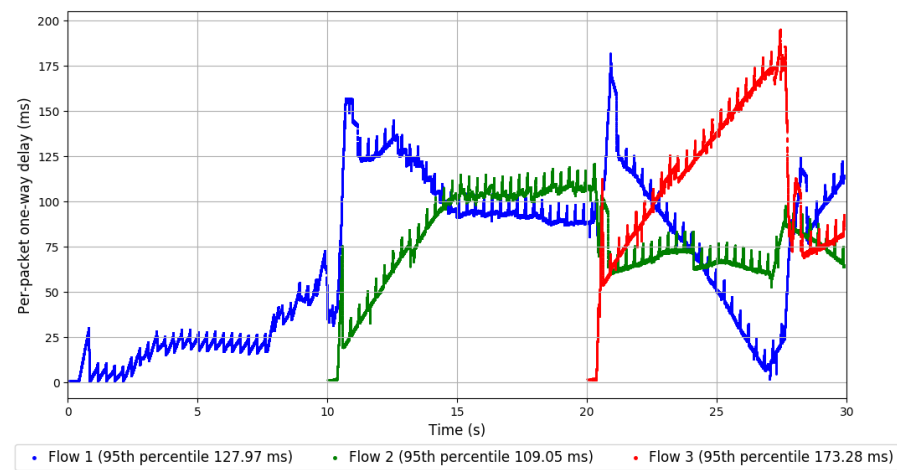
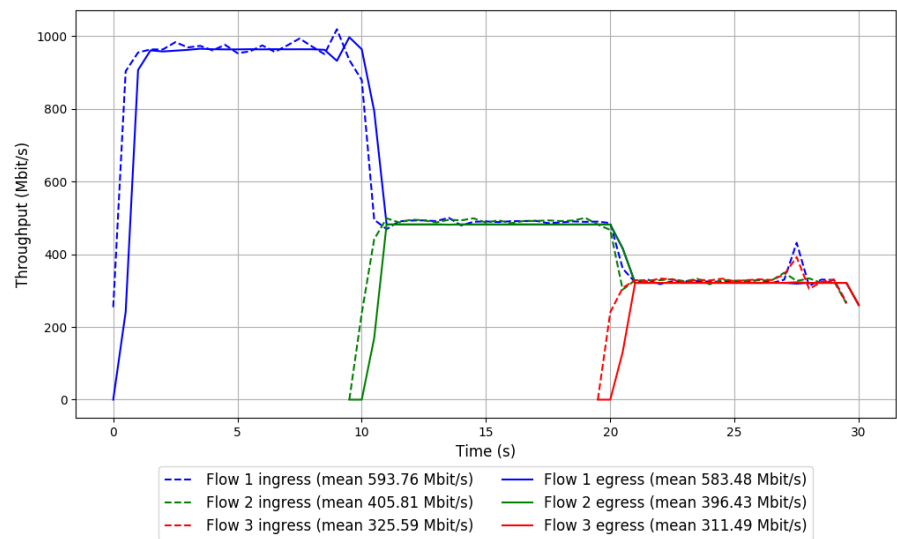
-- Flow 3:

Average throughput: 311.49 Mbit/s

95th percentile per-packet one-way delay: 173.283 ms

Loss rate: 4.34%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-09-25 18:15:02

End at: 2018-09-25 18:15:32

Local clock offset: 0.657 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-09-25 19:43:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 948.93 Mbit/s

95th percentile per-packet one-way delay: 143.559 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 587.66 Mbit/s

95th percentile per-packet one-way delay: 112.824 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 406.07 Mbit/s

95th percentile per-packet one-way delay: 147.567 ms

Loss rate: 2.94%

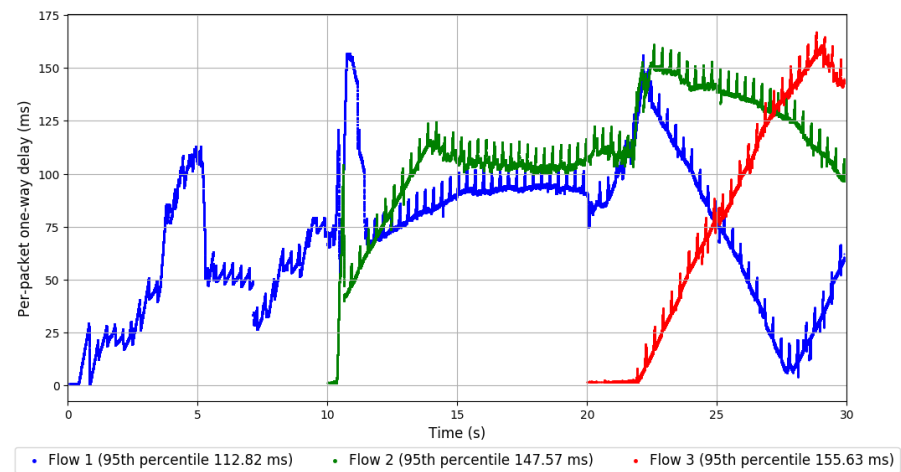
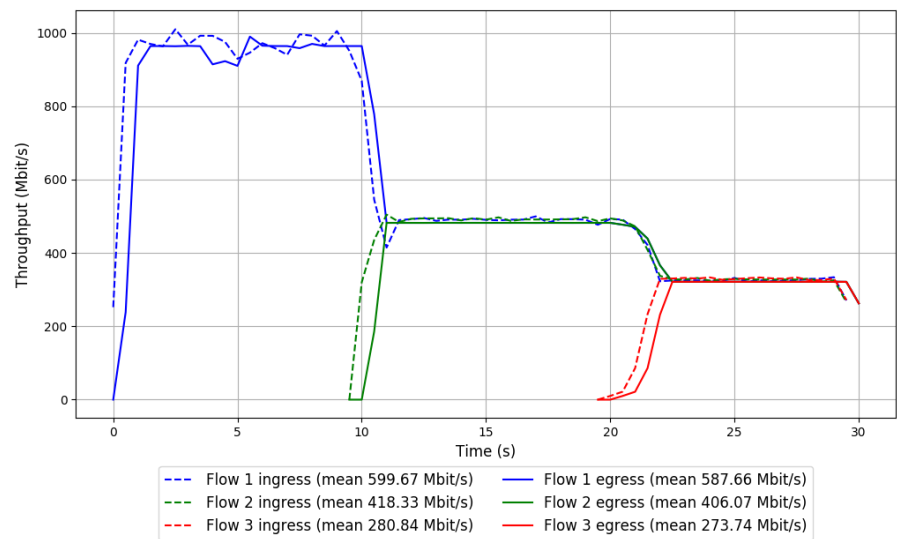
-- Flow 3:

Average throughput: 273.74 Mbit/s

95th percentile per-packet one-way delay: 155.630 ms

Loss rate: 2.55%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-09-25 18:44:35

End at: 2018-09-25 18:45:05

Local clock offset: 0.41 ms

Remote clock offset: 1.224 ms

# Below is generated by plot.py at 2018-09-25 19:44:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 949.02 Mbit/s

95th percentile per-packet one-way delay: 127.755 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 588.89 Mbit/s

95th percentile per-packet one-way delay: 114.992 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 406.30 Mbit/s

95th percentile per-packet one-way delay: 128.663 ms

Loss rate: 3.09%

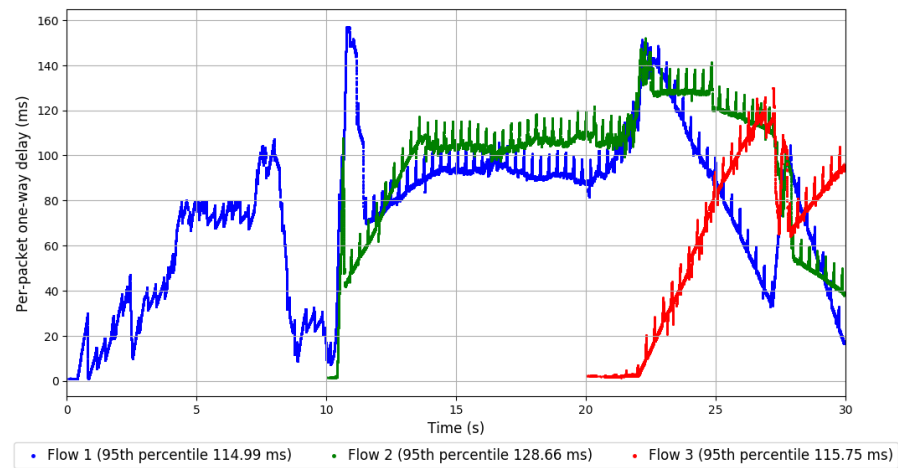
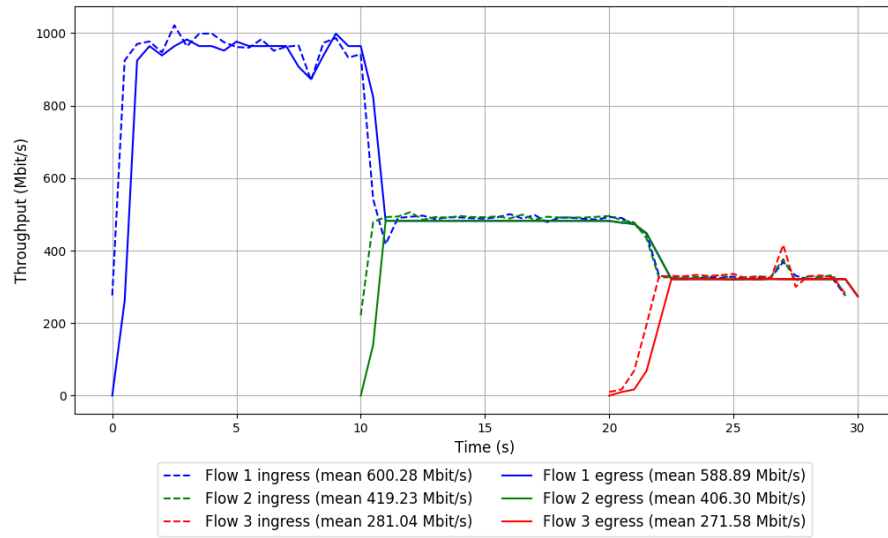
-- Flow 3:

Average throughput: 271.58 Mbit/s

95th percentile per-packet one-way delay: 115.754 ms

Loss rate: 3.39%

## Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2018-09-25 16:49:41

End at: 2018-09-25 16:50:11

Local clock offset: 0.963 ms

Remote clock offset: 3.872 ms

# Below is generated by plot.py at 2018-09-25 19:44:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 958.65 Mbit/s

95th percentile per-packet one-way delay: 37.692 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 583.71 Mbit/s

95th percentile per-packet one-way delay: 35.850 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 402.05 Mbit/s

95th percentile per-packet one-way delay: 46.959 ms

Loss rate: 1.16%

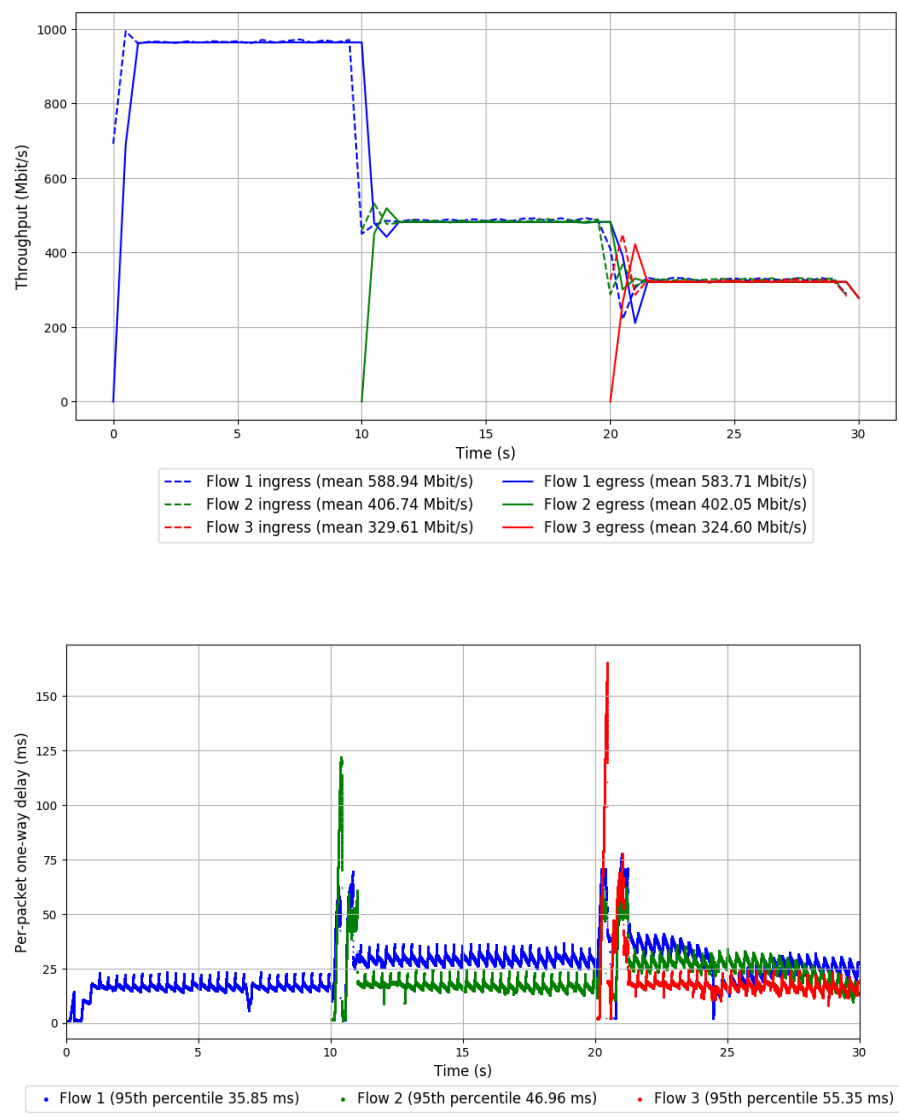
-- Flow 3:

Average throughput: 324.60 Mbit/s

95th percentile per-packet one-way delay: 55.347 ms

Loss rate: 1.54%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-09-25 17:19:12

End at: 2018-09-25 17:19:42

Local clock offset: 0.417 ms

Remote clock offset: 0.66 ms

# Below is generated by plot.py at 2018-09-25 19:44:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 943.59 Mbit/s

95th percentile per-packet one-way delay: 39.753 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 575.35 Mbit/s

95th percentile per-packet one-way delay: 39.636 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 399.88 Mbit/s

95th percentile per-packet one-way delay: 39.863 ms

Loss rate: 1.36%

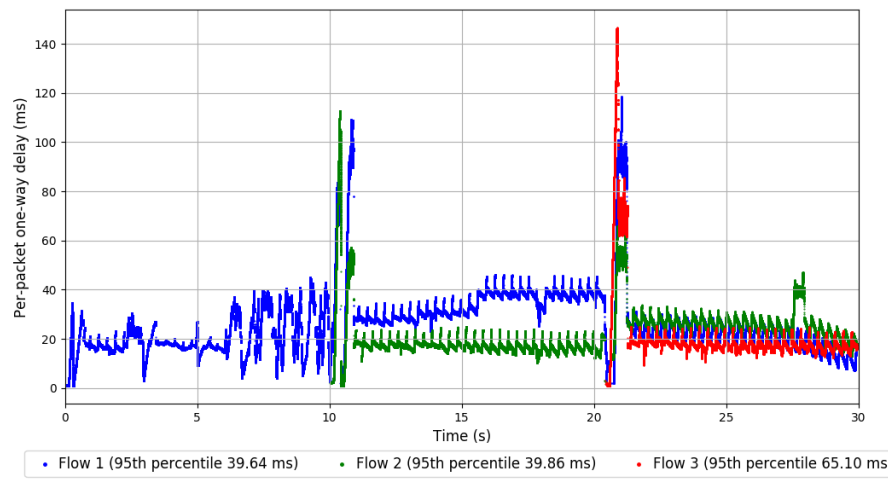
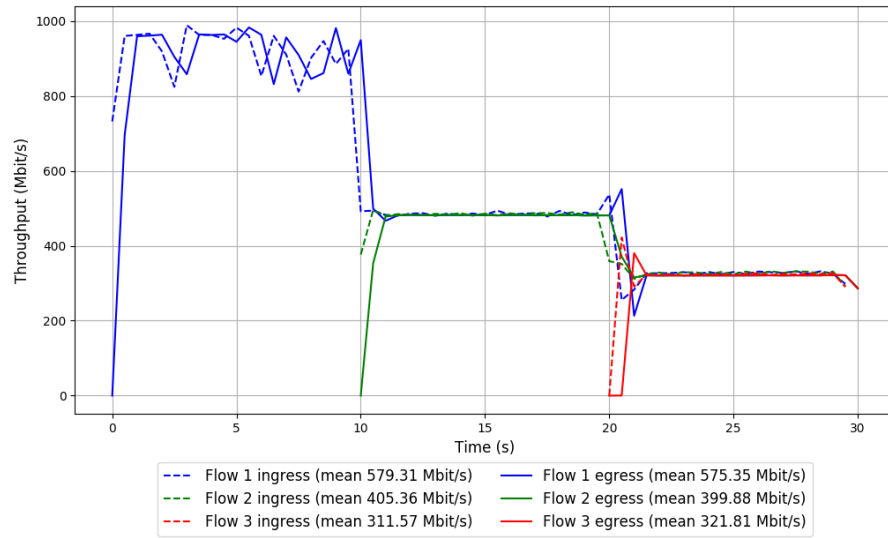
-- Flow 3:

Average throughput: 321.81 Mbit/s

95th percentile per-packet one-way delay: 65.099 ms

Loss rate: 0.93%

## Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-09-25 17:48:45

End at: 2018-09-25 17:49:15

Local clock offset: 0.389 ms

Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-09-25 19:44:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 956.76 Mbit/s

95th percentile per-packet one-way delay: 39.320 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 581.65 Mbit/s

95th percentile per-packet one-way delay: 38.477 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 402.74 Mbit/s

95th percentile per-packet one-way delay: 49.001 ms

Loss rate: 1.15%

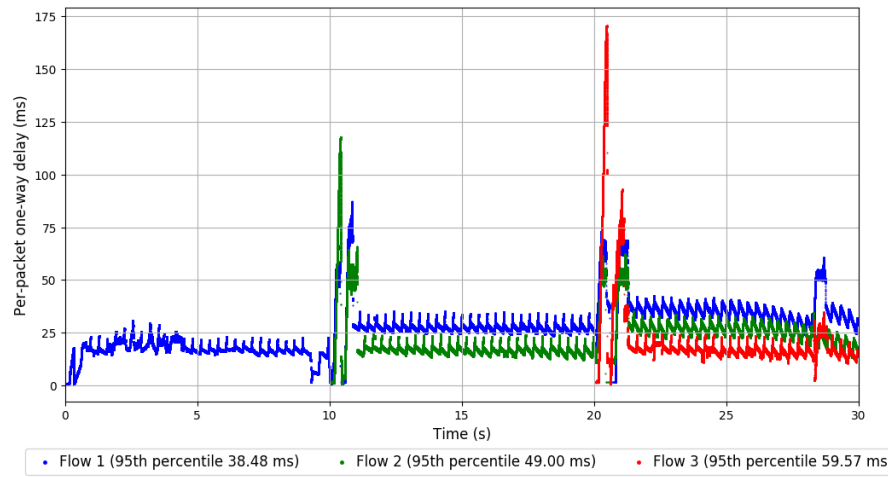
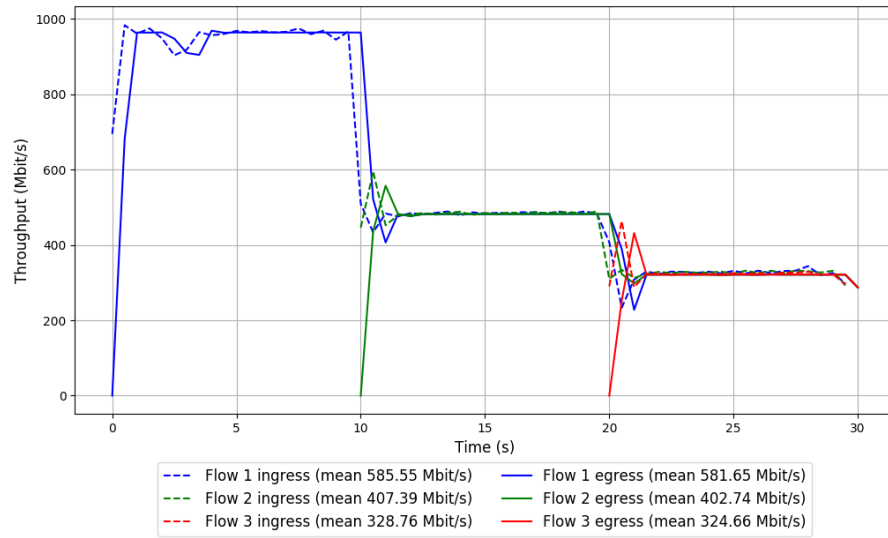
-- Flow 3:

Average throughput: 324.66 Mbit/s

95th percentile per-packet one-way delay: 59.569 ms

Loss rate: 1.27%

### Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-09-25 18:18:12

End at: 2018-09-25 18:18:42

Local clock offset: 0.543 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-09-25 19:49:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 957.48 Mbit/s

95th percentile per-packet one-way delay: 38.298 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 582.96 Mbit/s

95th percentile per-packet one-way delay: 35.240 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 402.41 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 1.18%

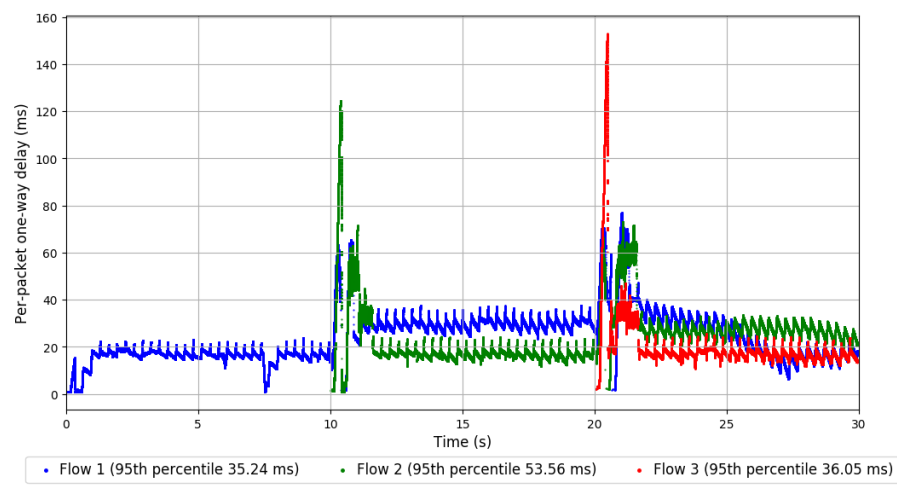
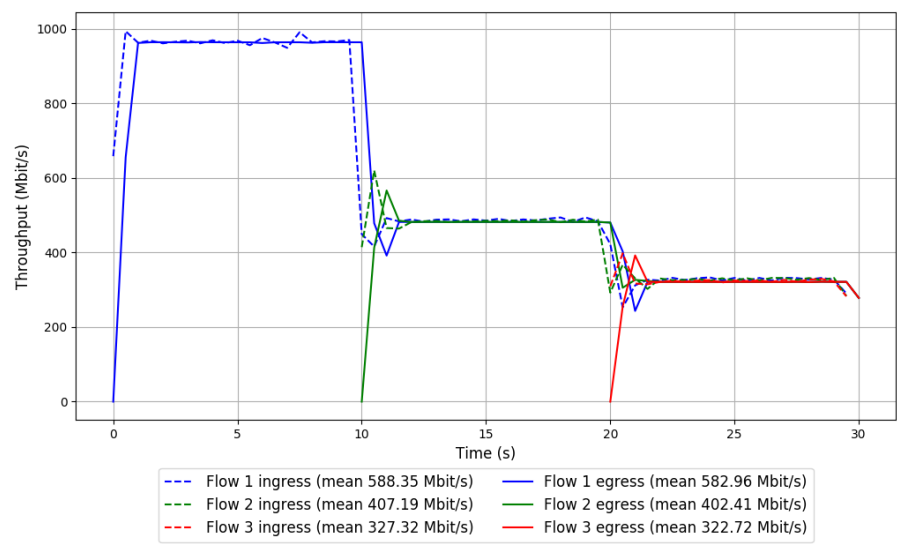
-- Flow 3:

Average throughput: 322.72 Mbit/s

95th percentile per-packet one-way delay: 36.053 ms

Loss rate: 1.43%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2018-09-25 18:47:44

End at: 2018-09-25 18:48:14

Local clock offset: 0.401 ms

Remote clock offset: 2.012 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 955.86 Mbit/s

95th percentile per-packet one-way delay: 40.170 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 580.80 Mbit/s

95th percentile per-packet one-way delay: 40.014 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 402.79 Mbit/s

95th percentile per-packet one-way delay: 48.340 ms

Loss rate: 1.22%

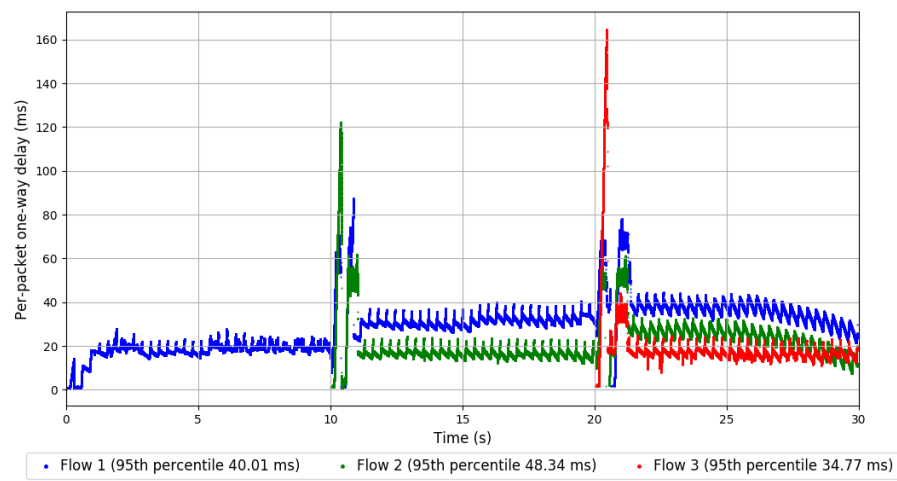
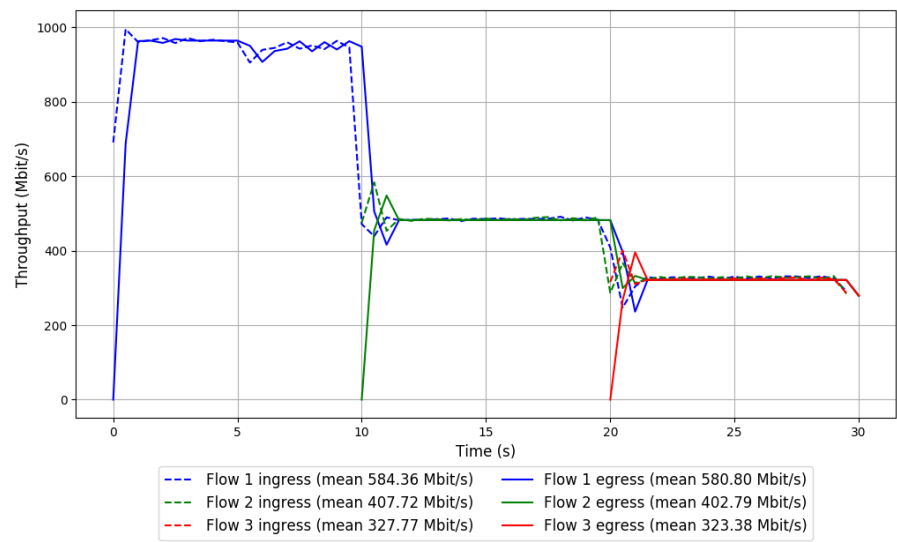
-- Flow 3:

Average throughput: 323.38 Mbit/s

95th percentile per-packet one-way delay: 34.769 ms

Loss rate: 1.39%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-09-25 16:52:55

End at: 2018-09-25 16:53:25

Local clock offset: 0.934 ms

Remote clock offset: 4.346 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 298.62 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 159.56 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 145.64 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.01%

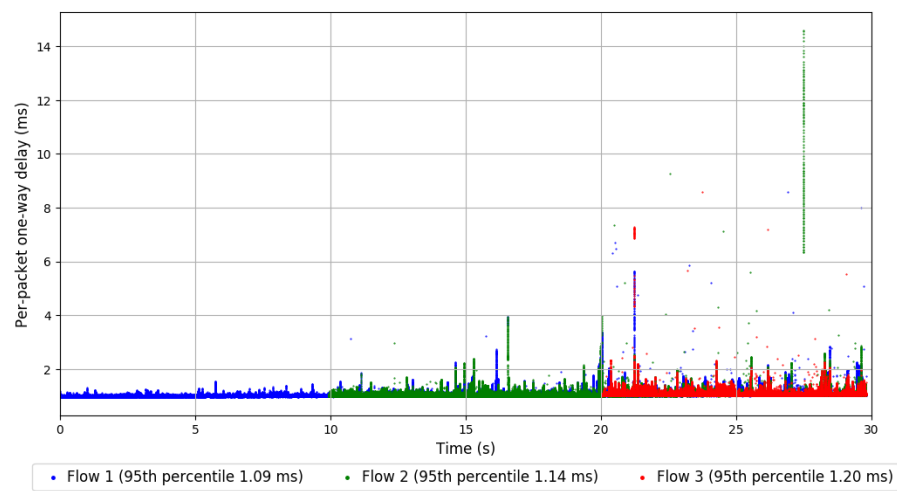
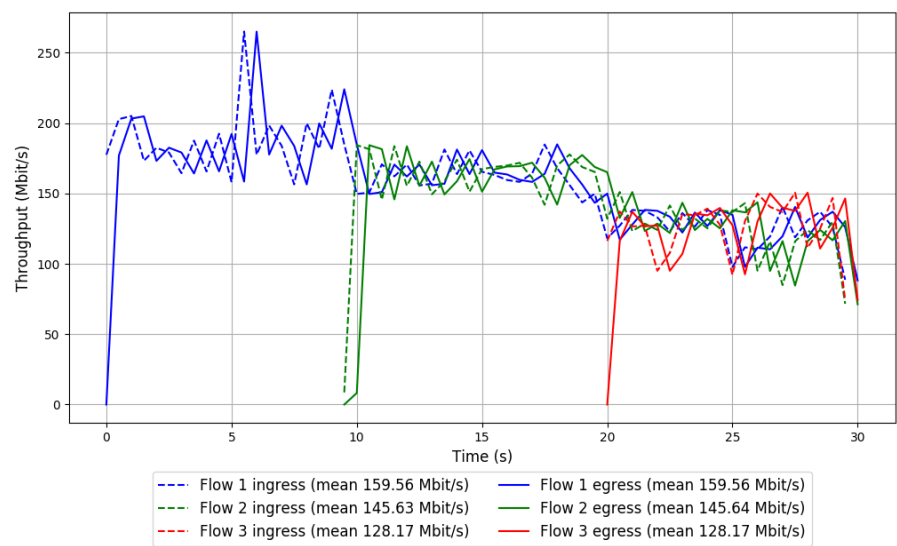
-- Flow 3:

Average throughput: 128.17 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.01%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-09-25 17:22:31

End at: 2018-09-25 17:23:01

Local clock offset: 0.293 ms

Remote clock offset: 0.538 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 302.81 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.99 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 144.64 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.00%

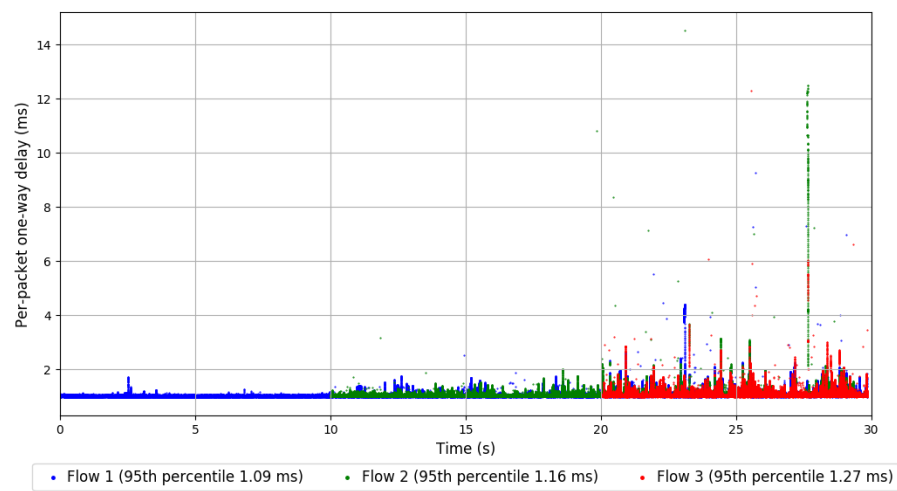
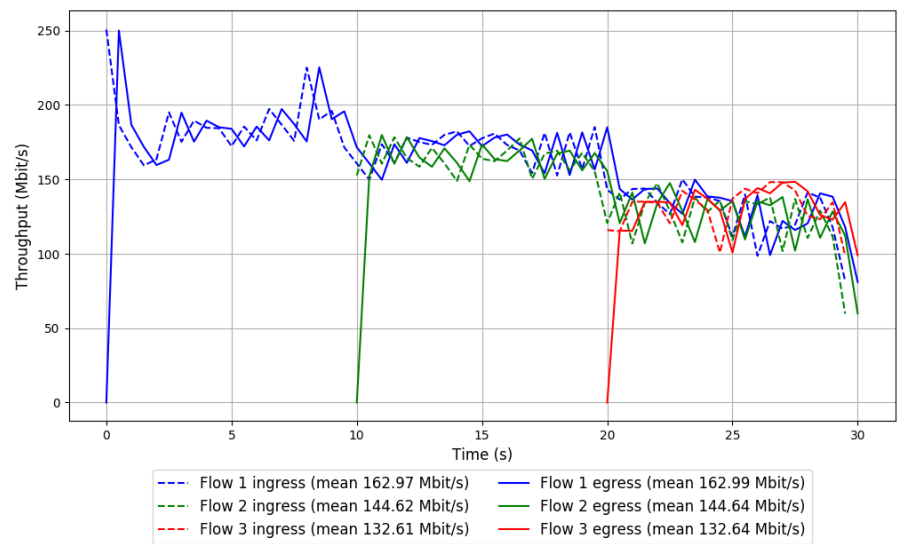
-- Flow 3:

Average throughput: 132.64 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-09-25 17:52:04

End at: 2018-09-25 17:52:34

Local clock offset: 0.508 ms

Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 300.25 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 159.22 Mbit/s

95th percentile per-packet one-way delay: 0.939 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 145.79 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.01%

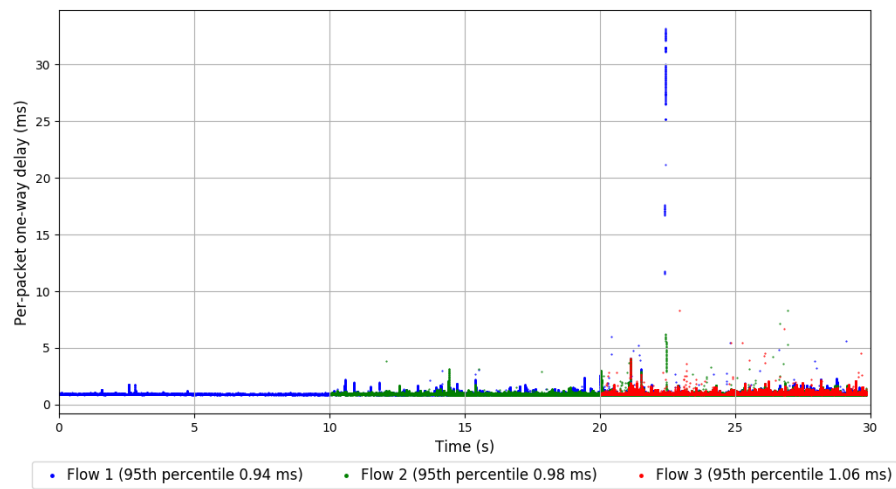
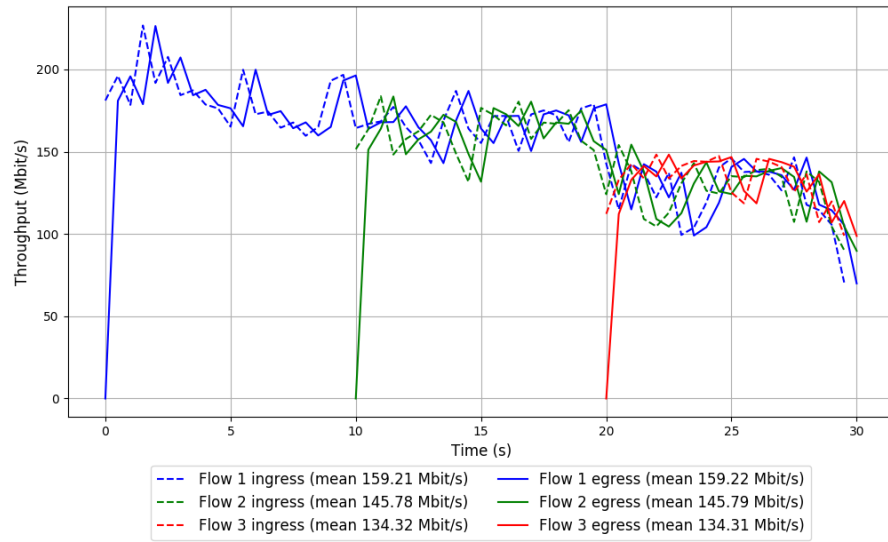
-- Flow 3:

Average throughput: 134.31 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.01%

### Run 3: Report of Indigo — Data Link



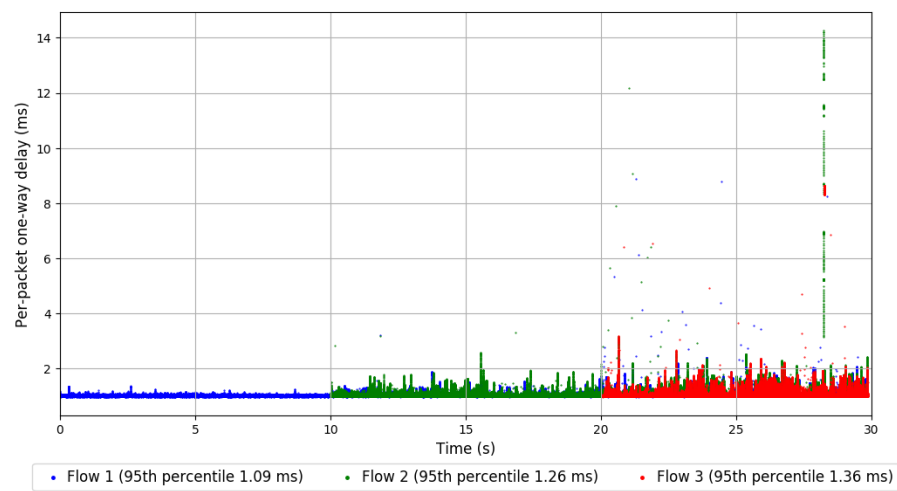
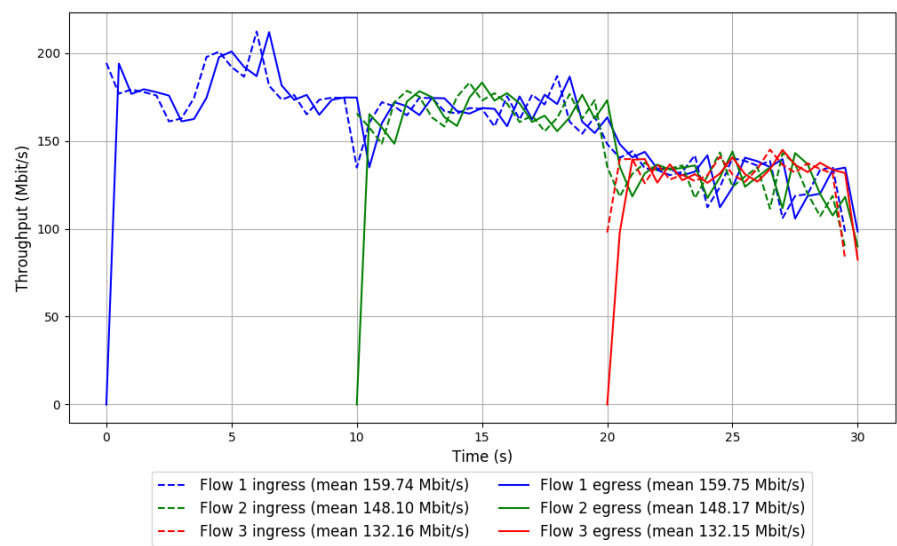


Run 4: Statistics of Indigo

Start at: 2018-09-25 18:21:30  
End at: 2018-09-25 18:22:00  
Local clock offset: 0.472 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-09-25 19:56:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 301.60 Mbit/s  
95th percentile per-packet one-way delay: 1.194 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 159.75 Mbit/s  
95th percentile per-packet one-way delay: 1.092 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 148.17 Mbit/s  
95th percentile per-packet one-way delay: 1.260 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 132.15 Mbit/s  
95th percentile per-packet one-way delay: 1.358 ms  
Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-09-25 18:51:03

End at: 2018-09-25 18:51:33

Local clock offset: 0.405 ms

Remote clock offset: 2.529 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 294.98 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 157.24 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.52 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.01%

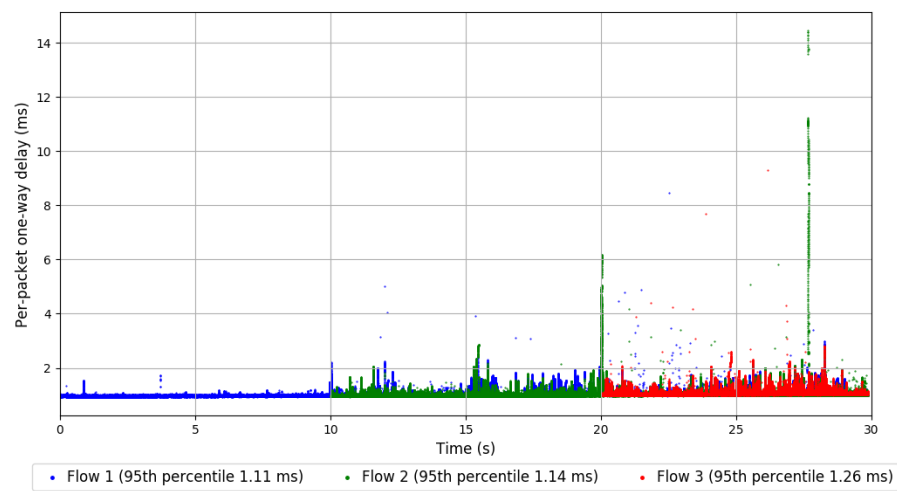
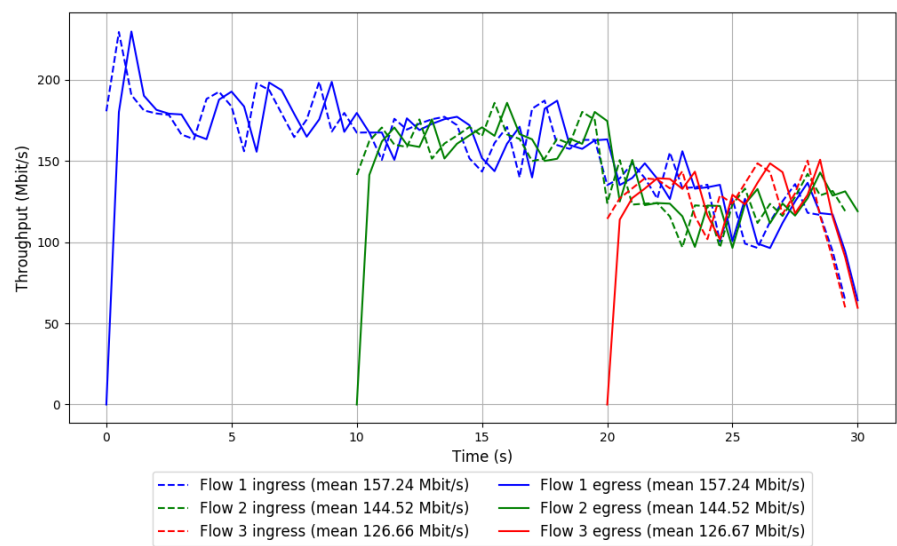
-- Flow 3:

Average throughput: 126.67 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-25 16:43:36

End at: 2018-09-25 16:44:06

Local clock offset: 1.27 ms

Remote clock offset: 2.969 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 219.06 Mbit/s

95th percentile per-packet one-way delay: 1.230 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 128.56 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.01%

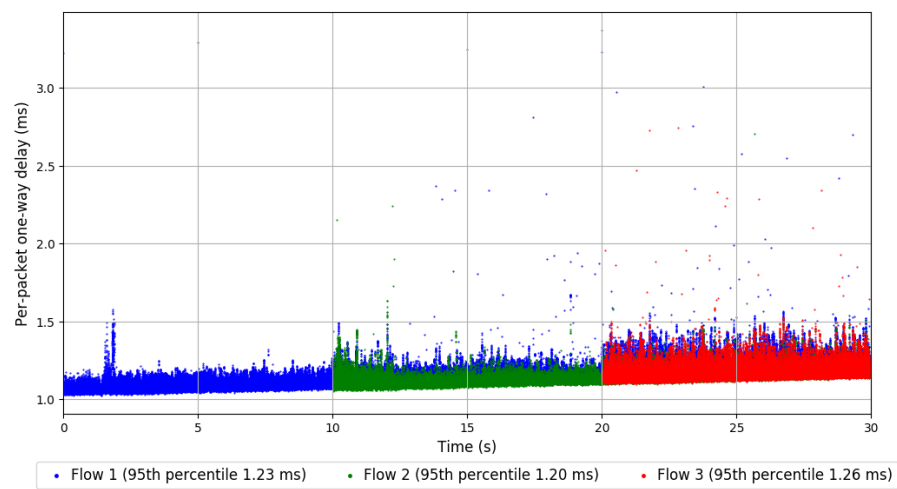
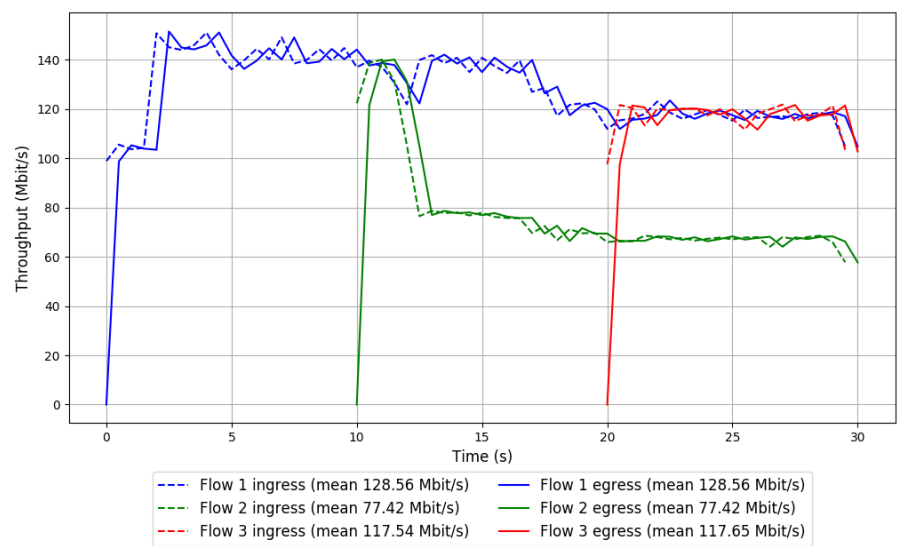
-- Flow 3:

Average throughput: 117.65 Mbit/s

95th percentile per-packet one-way delay: 1.260 ms

Loss rate: 0.03%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:13:03

End at: 2018-09-25 17:13:33

Local clock offset: 0.753 ms

Remote clock offset: 1.01 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 256.63 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 132.27 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.44 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.02%

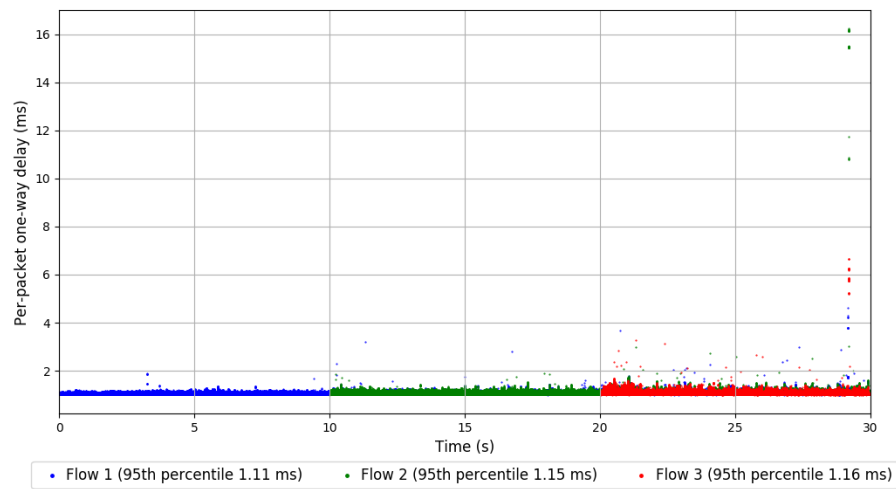
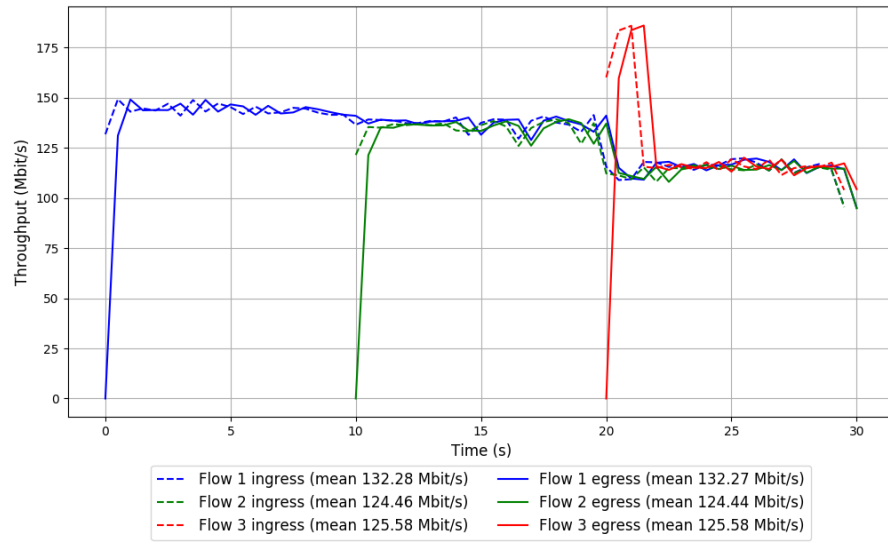
-- Flow 3:

Average throughput: 125.58 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.00%

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





Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:42:38

End at: 2018-09-25 17:43:08

Local clock offset: 0.205 ms

Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 175.11 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.95 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 122.74 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.01%

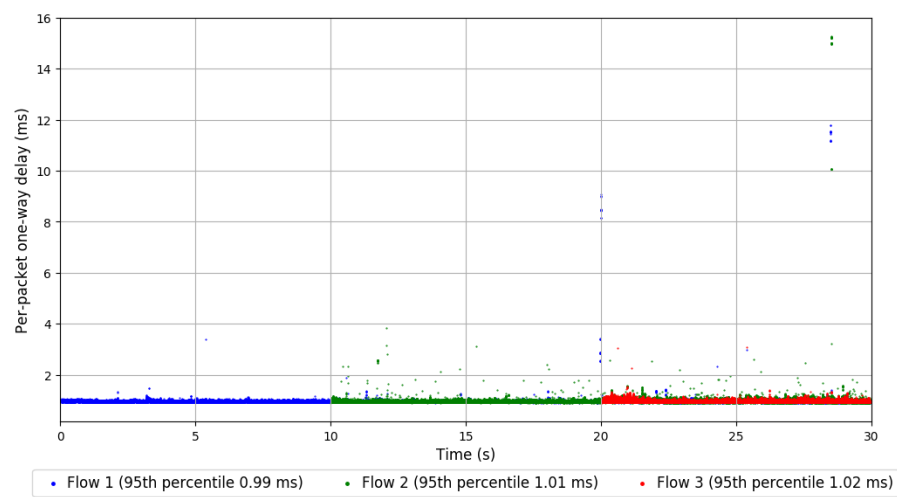
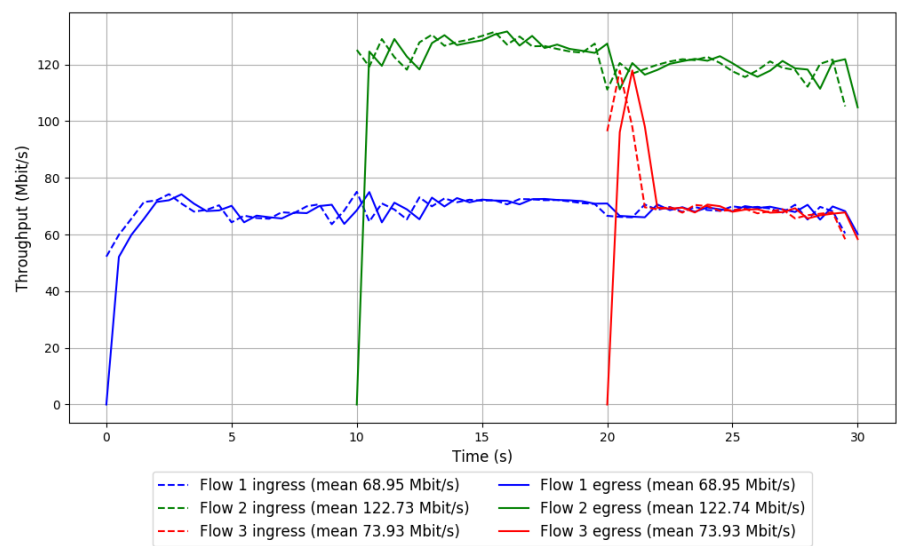
-- Flow 3:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-25 18:12:04

End at: 2018-09-25 18:12:34

Local clock offset: 0.847 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 269.29 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 127.27 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 155.61 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.00%

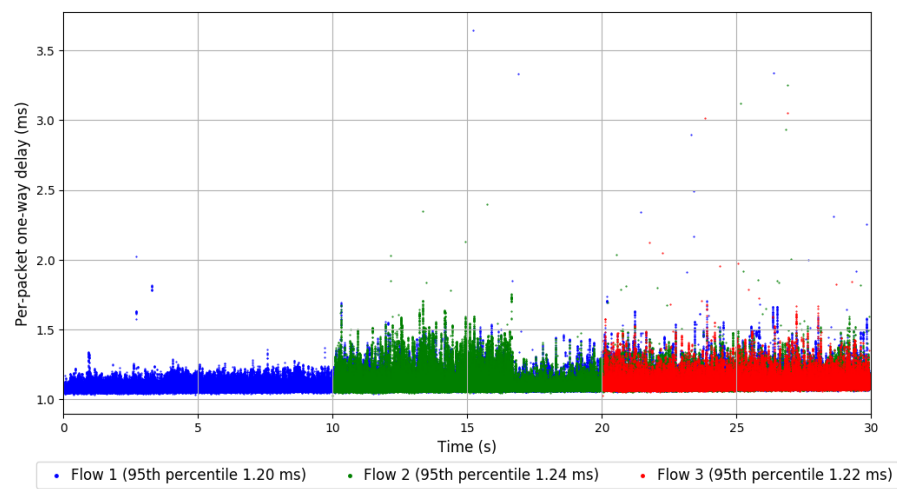
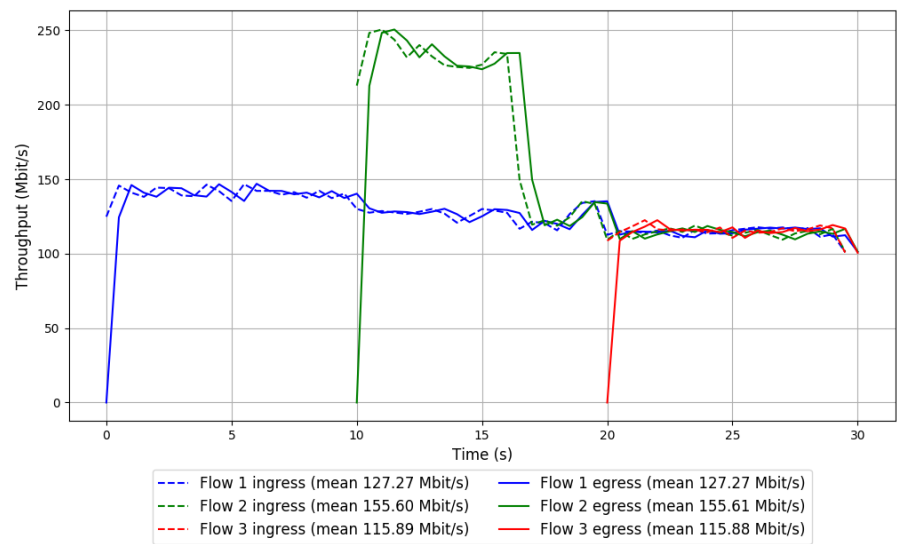
-- Flow 3:

Average throughput: 115.88 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.02%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-25 18:41:37

End at: 2018-09-25 18:42:07

Local clock offset: 0.456 ms

Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 244.37 Mbit/s

95th percentile per-packet one-way delay: 1.332 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 129.98 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 107.57 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.00%

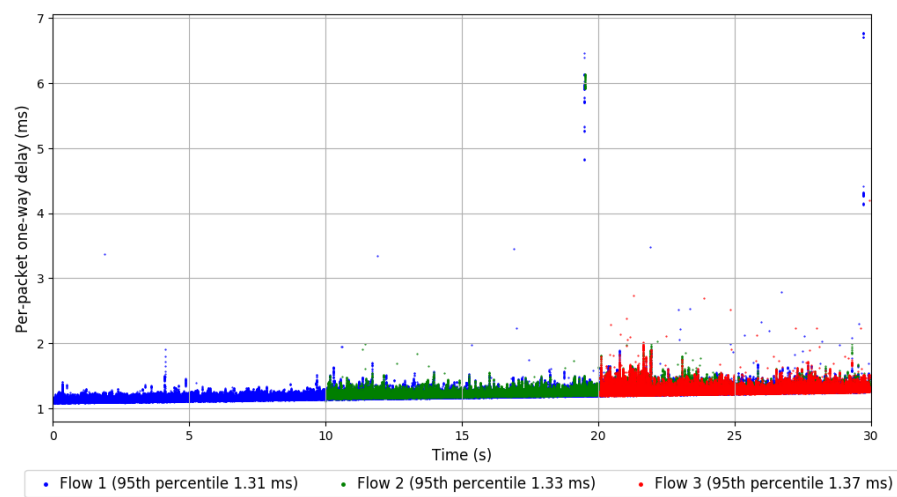
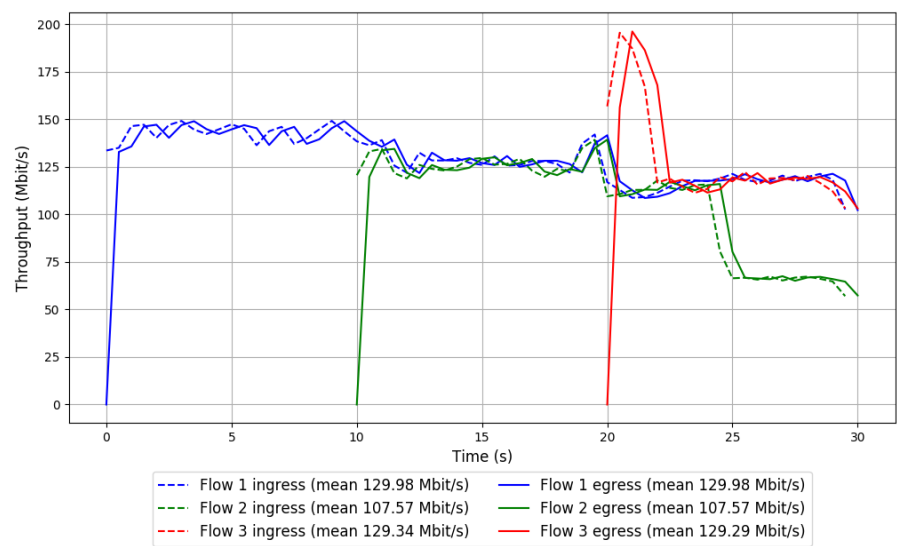
-- Flow 3:

Average throughput: 129.29 Mbit/s

95th percentile per-packet one-way delay: 1.374 ms

Loss rate: 0.02%

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



Run 1: Statistics of LEDBAT

Start at: 2018-09-25 16:38:54

End at: 2018-09-25 16:39:24

Local clock offset: 1.655 ms

Remote clock offset: 1.943 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 593.76 Mbit/s

95th percentile per-packet one-way delay: 1.797 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 368.61 Mbit/s

95th percentile per-packet one-way delay: 1.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 253.99 Mbit/s

95th percentile per-packet one-way delay: 2.014 ms

Loss rate: 0.01%

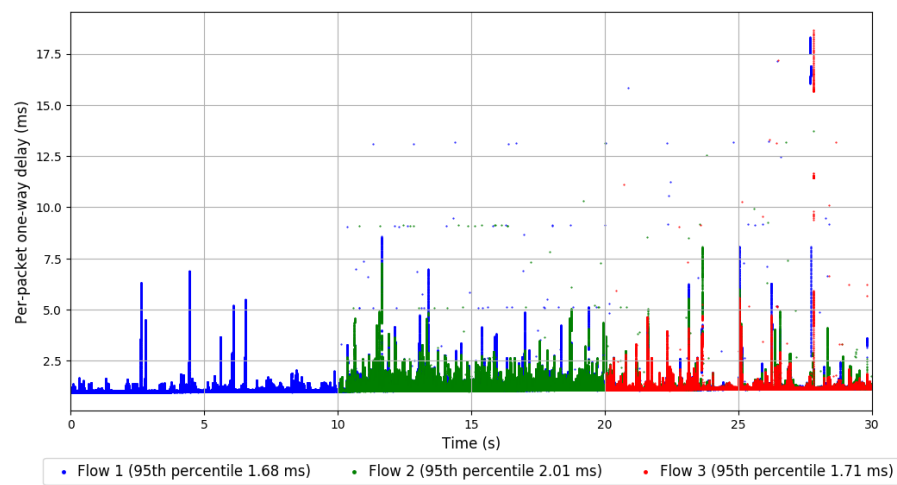
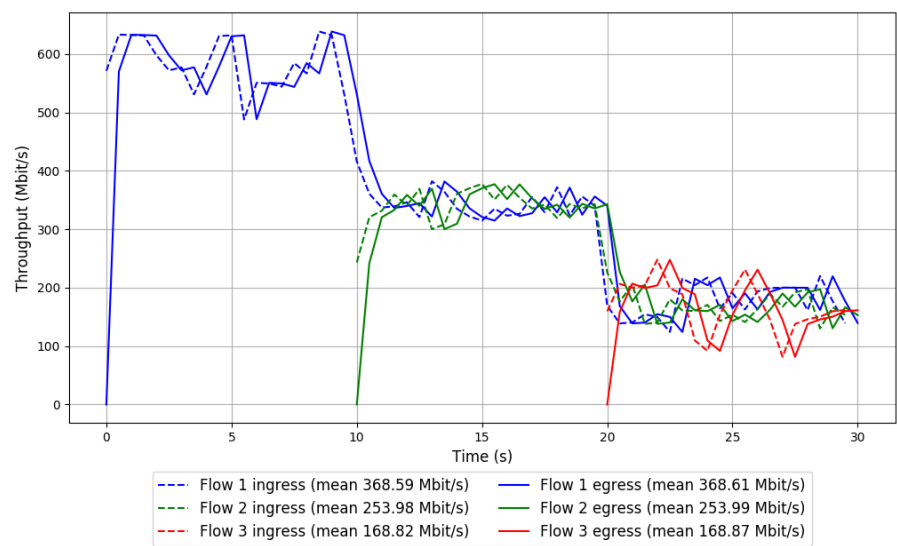
-- Flow 3:

Average throughput: 168.87 Mbit/s

95th percentile per-packet one-way delay: 1.705 ms

Loss rate: 0.02%

Run 1: Report of LEDBAT — Data Link





Run 2: Statistics of LEDBAT

Start at: 2018-09-25 17:08:21

End at: 2018-09-25 17:08:51

Local clock offset: 1.013 ms

Remote clock offset: 1.677 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 580.18 Mbit/s

95th percentile per-packet one-way delay: 1.973 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 337.85 Mbit/s

95th percentile per-packet one-way delay: 2.005 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 269.13 Mbit/s

95th percentile per-packet one-way delay: 1.964 ms

Loss rate: 0.00%

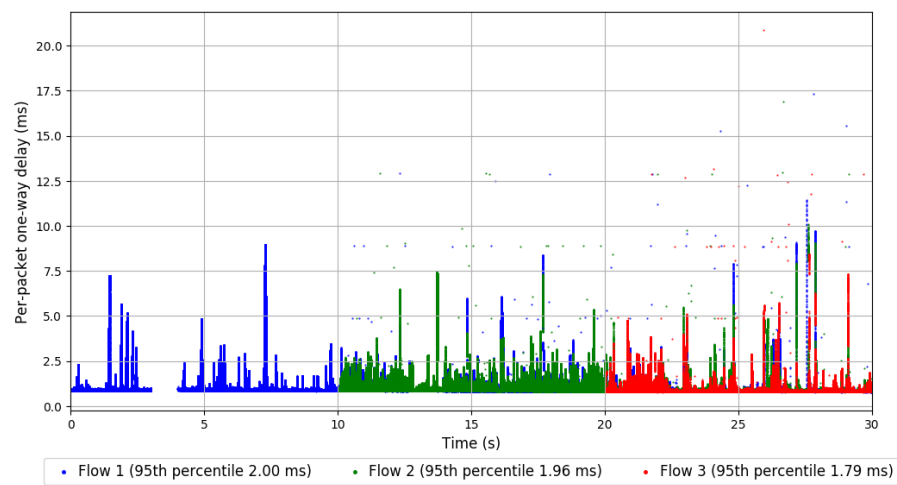
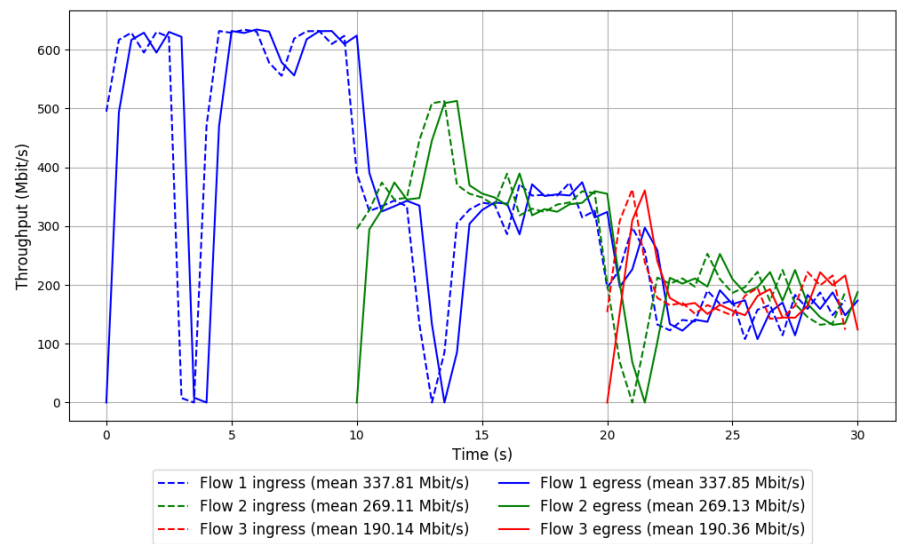
-- Flow 3:

Average throughput: 190.36 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-09-25 17:37:58

End at: 2018-09-25 17:38:28

Local clock offset: 0.075 ms

Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2018-09-25 19:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 589.51 Mbit/s

95th percentile per-packet one-way delay: 1.865 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 361.39 Mbit/s

95th percentile per-packet one-way delay: 1.716 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 244.68 Mbit/s

95th percentile per-packet one-way delay: 2.149 ms

Loss rate: 0.01%

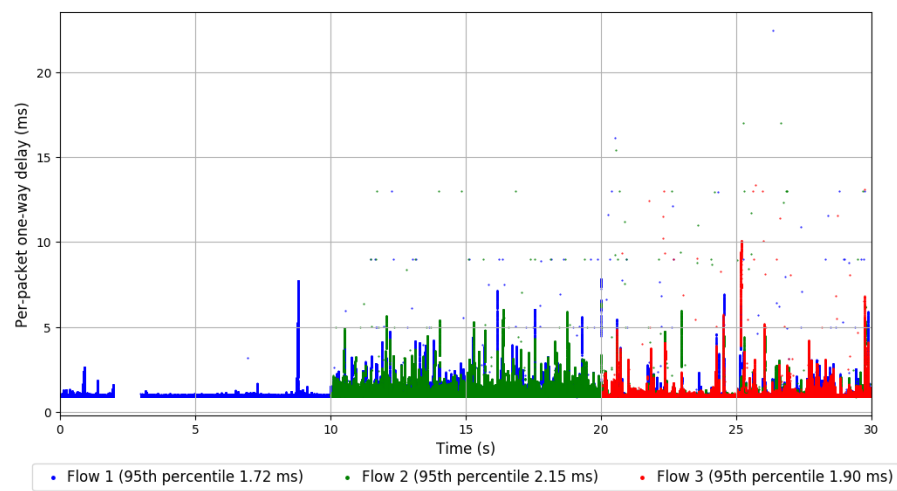
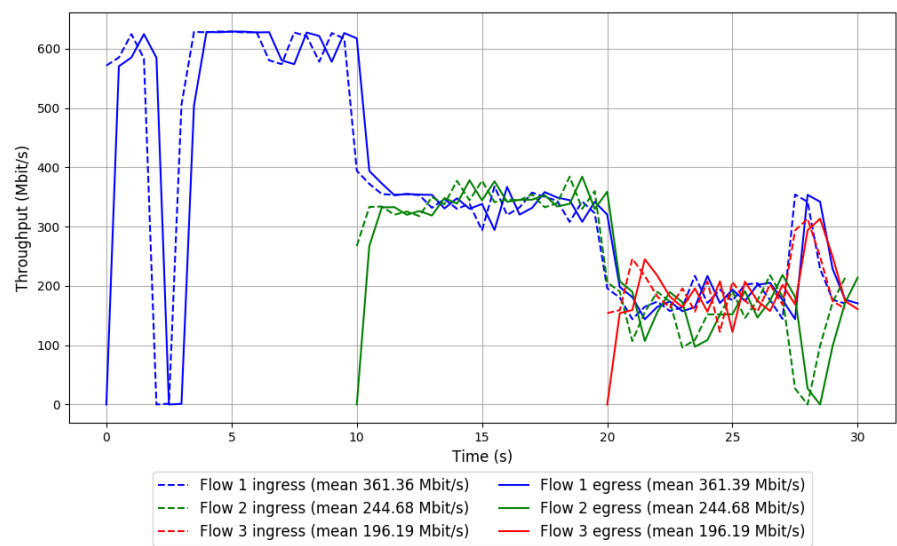
-- Flow 3:

Average throughput: 196.19 Mbit/s

95th percentile per-packet one-way delay: 1.895 ms

Loss rate: 0.02%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-09-25 18:07:21

End at: 2018-09-25 18:07:51

Local clock offset: 0.978 ms

Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-09-25 19:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 596.66 Mbit/s

95th percentile per-packet one-way delay: 4.837 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 350.36 Mbit/s

95th percentile per-packet one-way delay: 6.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 271.01 Mbit/s

95th percentile per-packet one-way delay: 1.938 ms

Loss rate: 0.01%

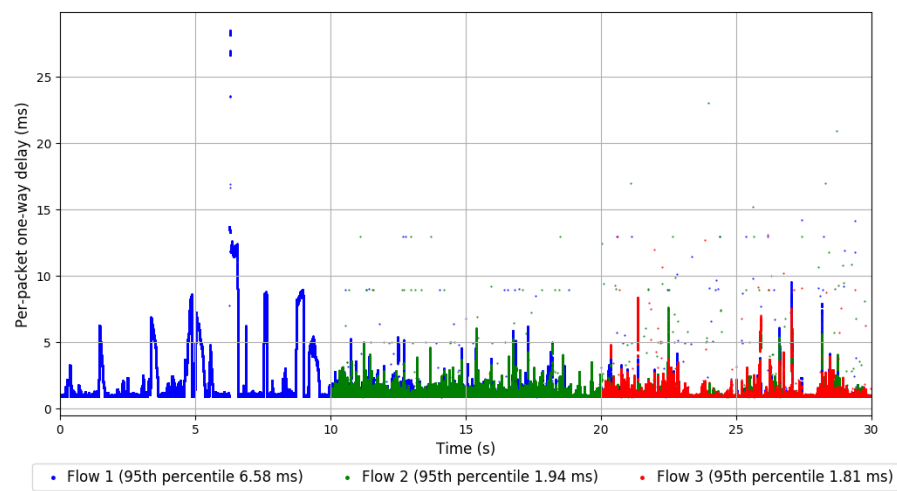
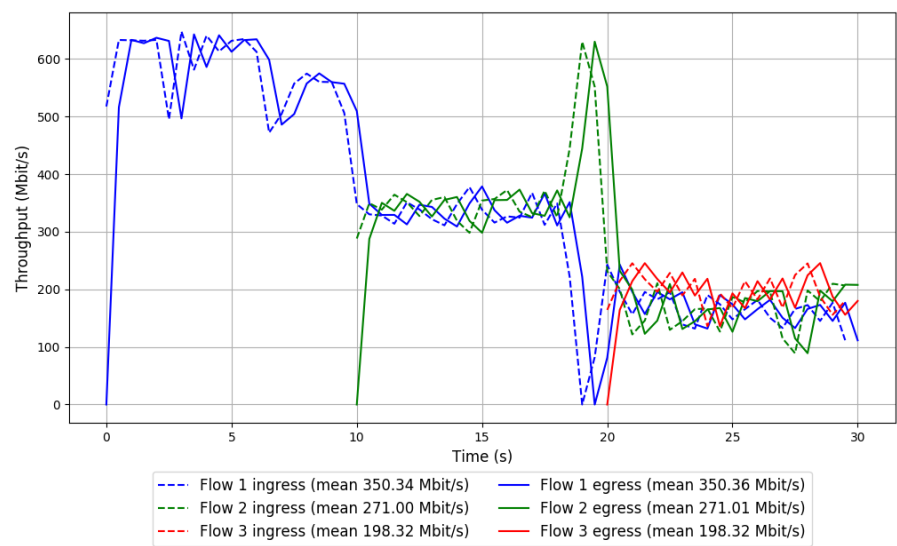
-- Flow 3:

Average throughput: 198.32 Mbit/s

95th percentile per-packet one-way delay: 1.813 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-09-25 18:36:55

End at: 2018-09-25 18:37:25

Local clock offset: 0.438 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-09-25 19:56:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 592.91 Mbit/s

95th percentile per-packet one-way delay: 1.715 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 358.11 Mbit/s

95th percentile per-packet one-way delay: 1.629 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 256.29 Mbit/s

95th percentile per-packet one-way delay: 1.950 ms

Loss rate: 0.00%

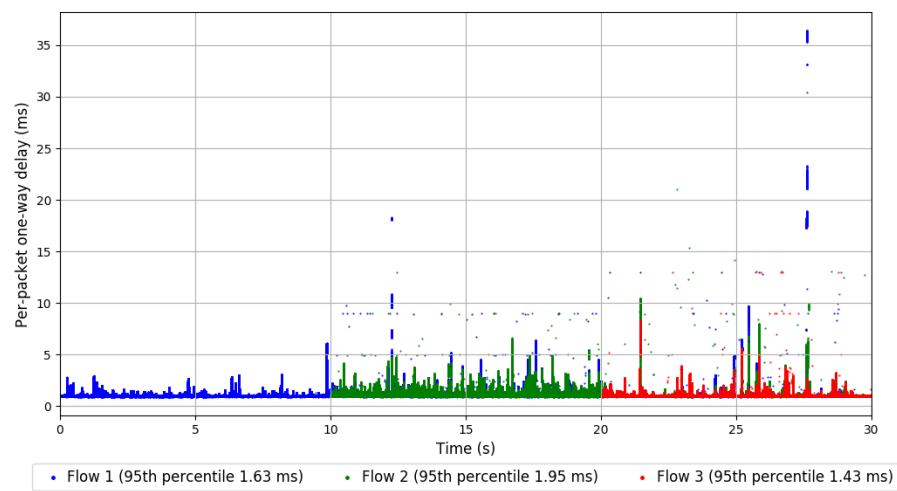
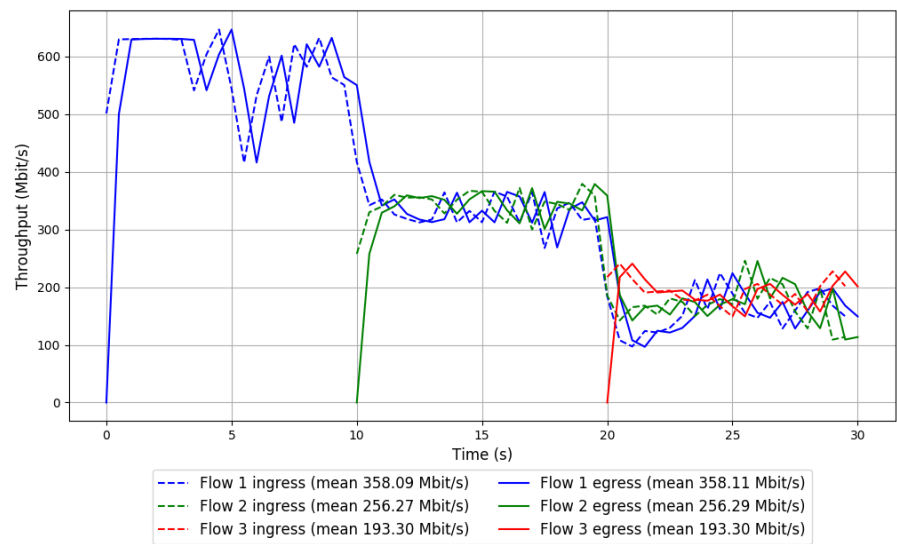
-- Flow 3:

Average throughput: 193.30 Mbit/s

95th percentile per-packet one-way delay: 1.430 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link





Run 1: Statistics of Indigo-Muses

Start at: 2018-09-25 16:54:27

End at: 2018-09-25 16:54:57

Local clock offset: 0.944 ms

Remote clock offset: 4.485 ms

# Below is generated by plot.py at 2018-09-25 19:56:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.19 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.79 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.00%

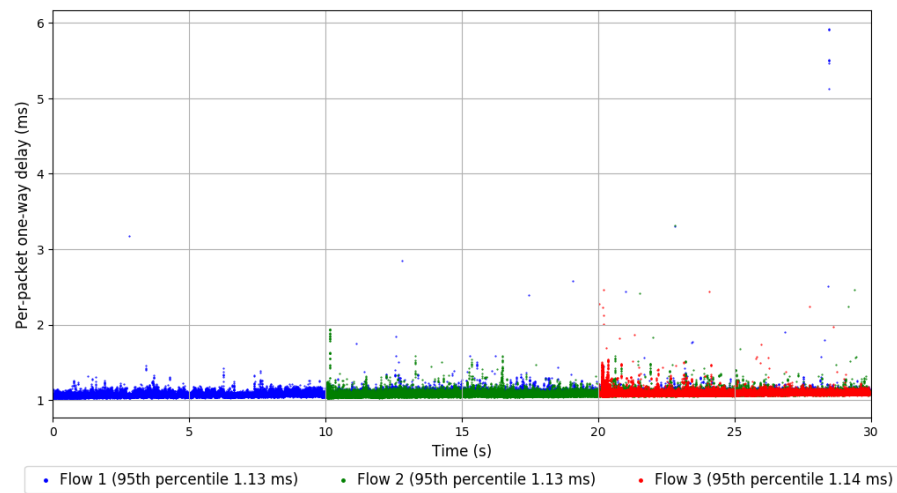
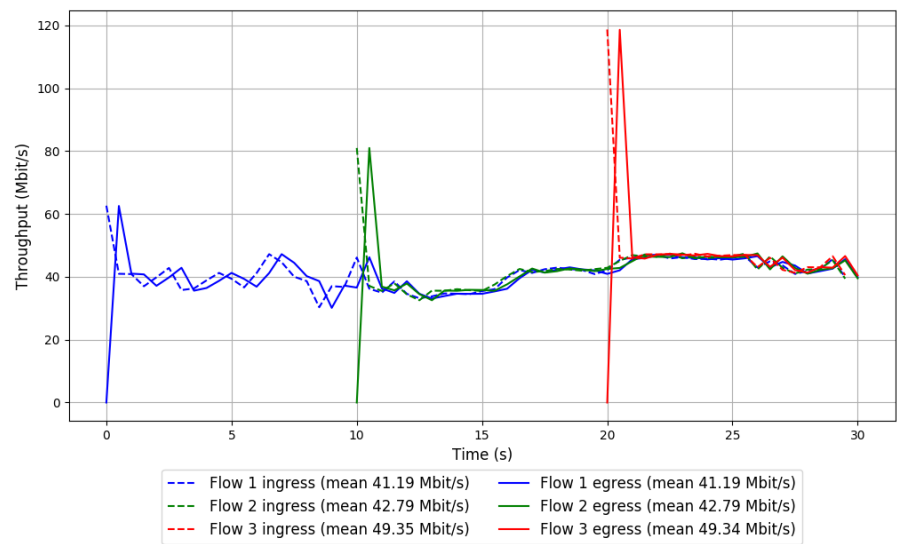
-- Flow 3:

Average throughput: 49.34 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.02%

Run 1: Report of Indigo-Muses — Data Link



Run 2: Statistics of Indigo-Muses

Start at: 2018-09-25 17:24:03

End at: 2018-09-25 17:24:33

Local clock offset: 0.269 ms

Remote clock offset: 0.569 ms

# Below is generated by plot.py at 2018-09-25 19:56:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.00%

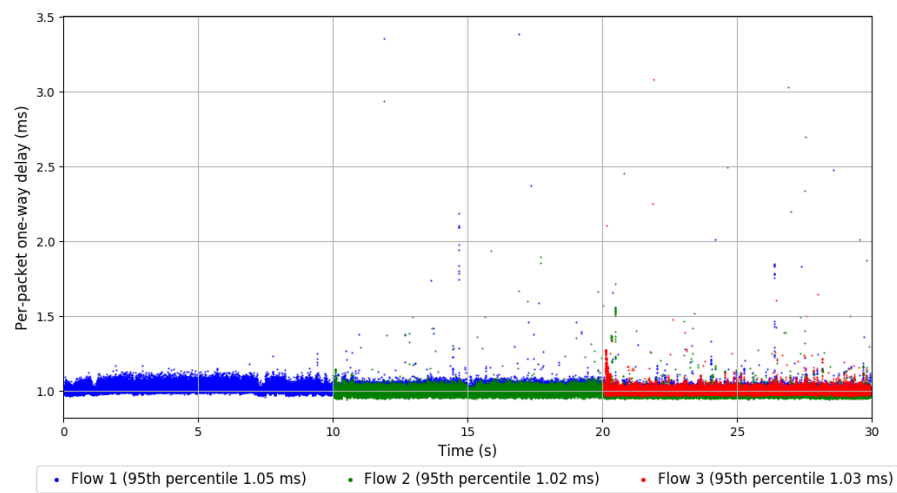
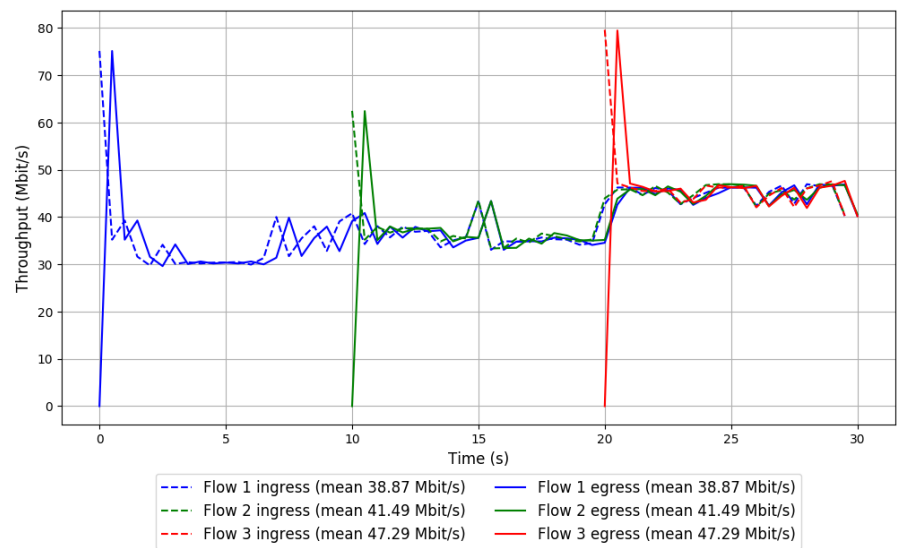
-- Flow 3:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.01%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-09-25 17:53:36

End at: 2018-09-25 17:54:06

Local clock offset: 0.573 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-09-25 19:56:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.21 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 41.48 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.35 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.01%

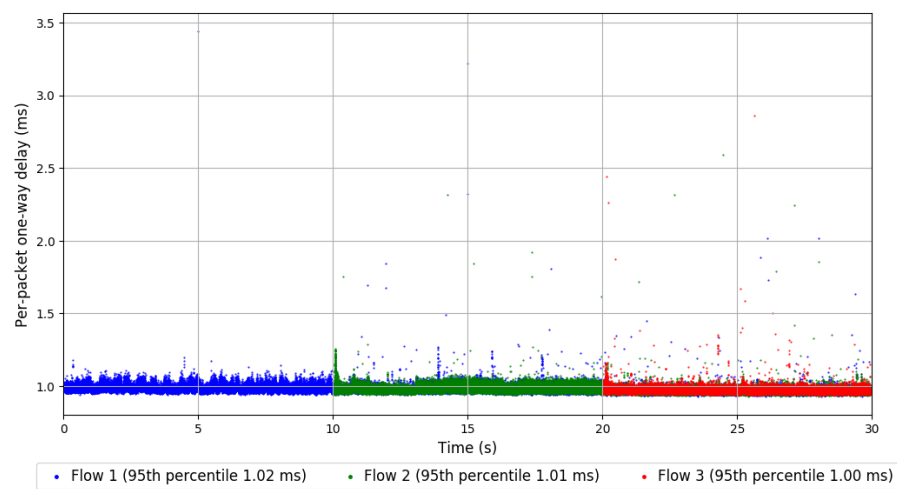
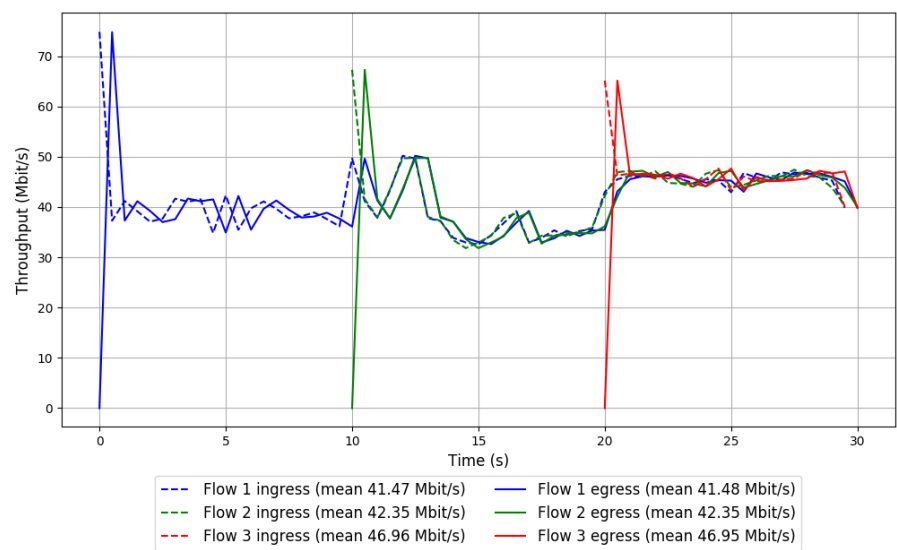
-- Flow 3:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.02%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-25 18:23:02

End at: 2018-09-25 18:23:32

Local clock offset: 0.46 ms

Remote clock offset: 0.077 ms

# Below is generated by plot.py at 2018-09-25 19:56:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.15 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.01%

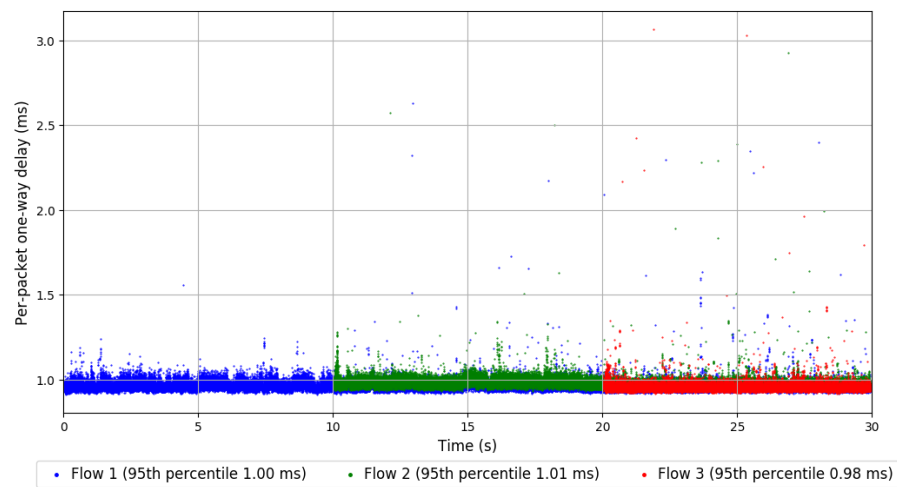
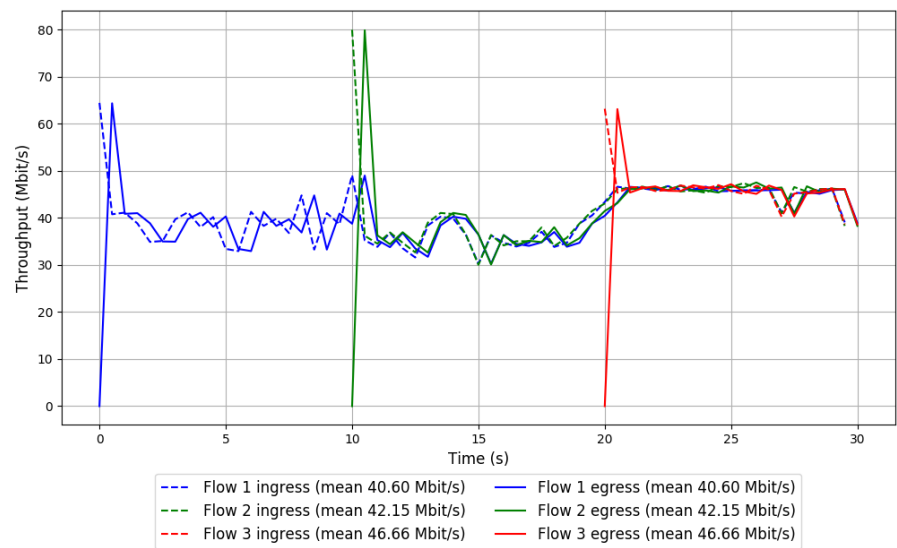
-- Flow 3:

Average throughput: 46.66 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.03%

Run 4: Report of Indigo-Muses — Data Link





Run 5: Statistics of Indigo-Muses

Start at: 2018-09-25 18:52:35

End at: 2018-09-25 18:53:05

Local clock offset: 0.436 ms

Remote clock offset: 2.707 ms

# Below is generated by plot.py at 2018-09-25 19:56:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 1.112 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 41.02 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 1.103 ms

Loss rate: 0.01%

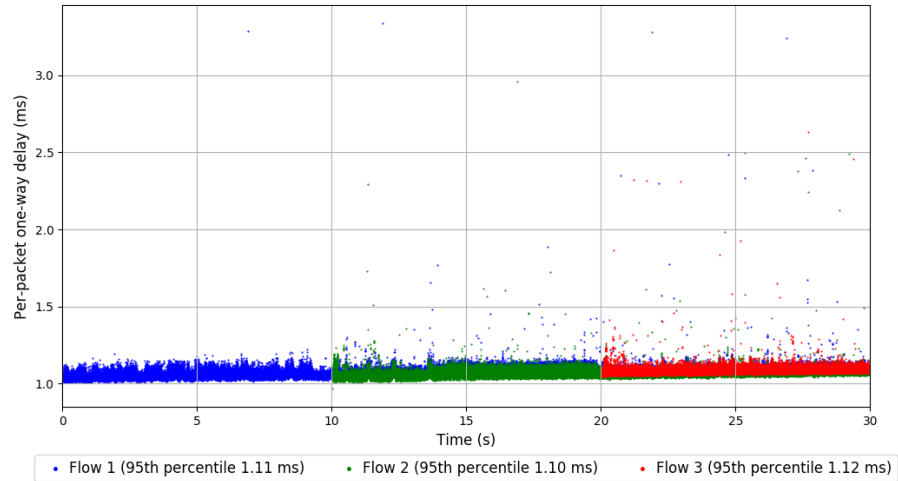
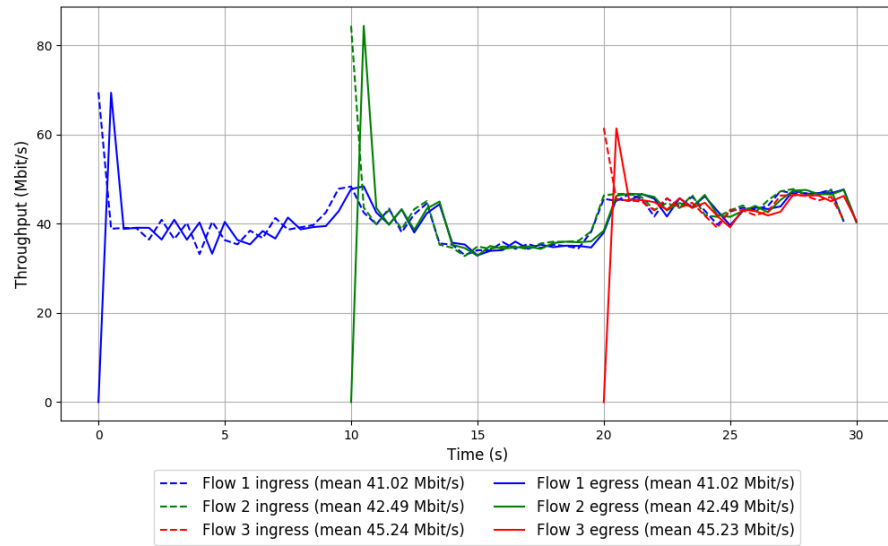
-- Flow 3:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.03%

## Run 5: Report of Indigo-Muses — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-09-25 16:51:27

End at: 2018-09-25 16:51:57

Local clock offset: 0.966 ms

Remote clock offset: 4.172 ms

# Below is generated by plot.py at 2018-09-25 19:57:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 388.04 Mbit/s

95th percentile per-packet one-way delay: 1.942 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 210.81 Mbit/s

95th percentile per-packet one-way delay: 1.844 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 199.40 Mbit/s

95th percentile per-packet one-way delay: 1.982 ms

Loss rate: 0.01%

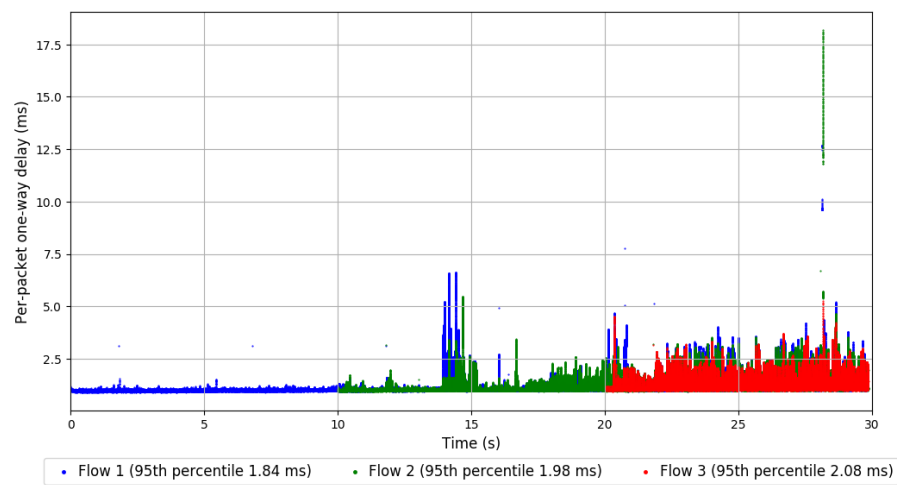
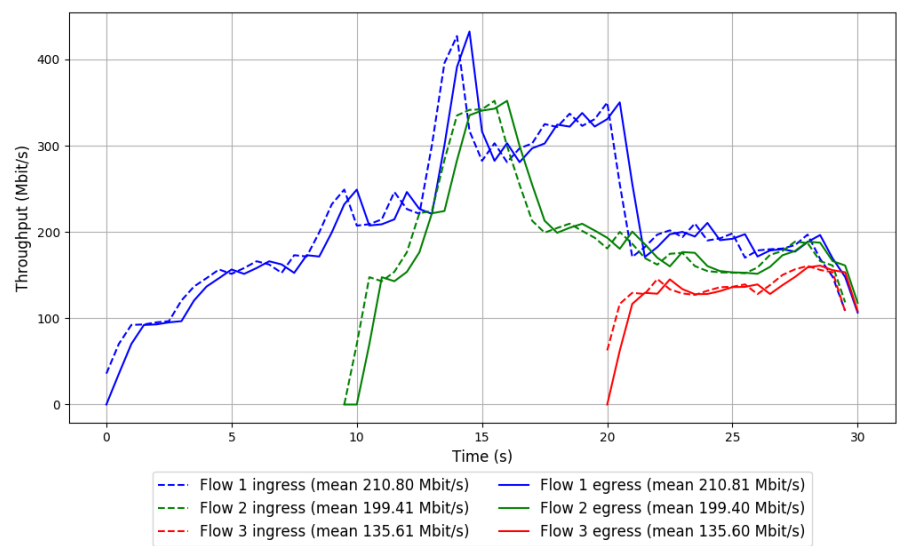
-- Flow 3:

Average throughput: 135.60 Mbit/s

95th percentile per-packet one-way delay: 2.084 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-09-25 17:20:57

End at: 2018-09-25 17:21:27

Local clock offset: 0.354 ms

Remote clock offset: 0.591 ms

# Below is generated by plot.py at 2018-09-25 20:00:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 594.79 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 537.64 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.02%

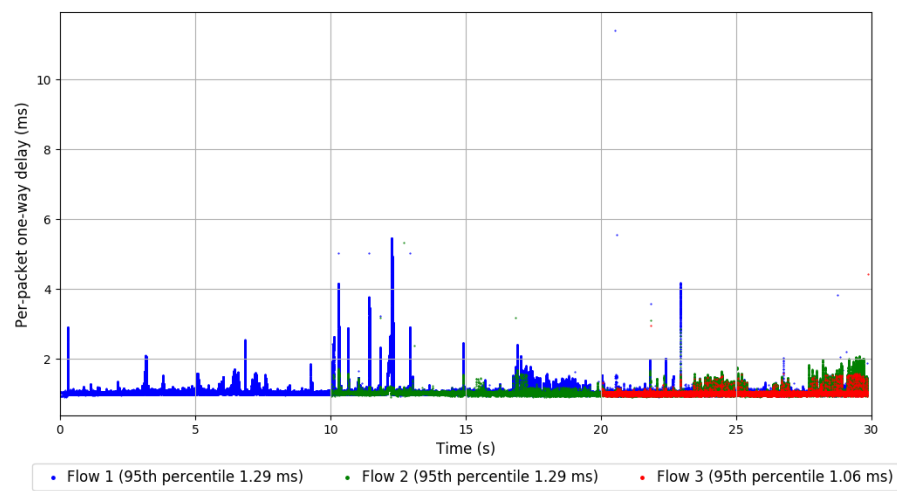
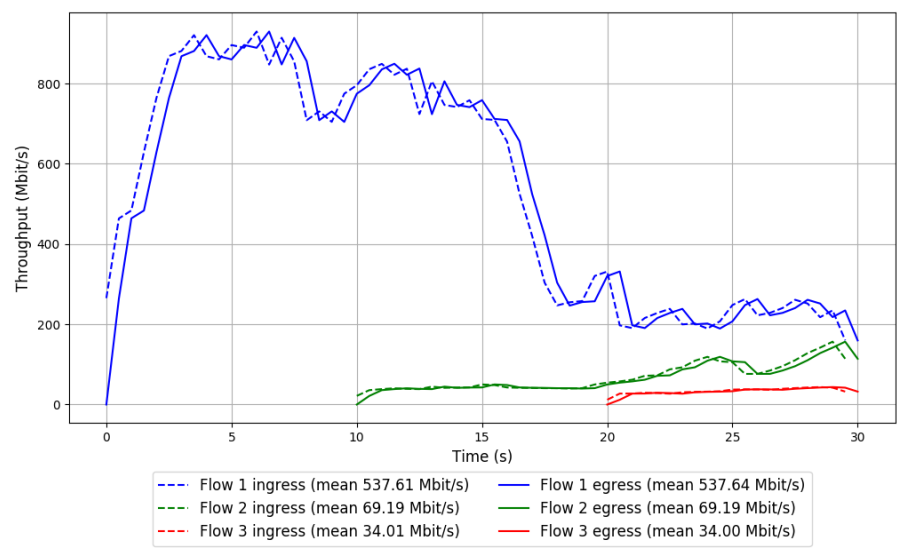
-- Flow 3:

Average throughput: 34.00 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-09-25 17:50:30

End at: 2018-09-25 17:51:00

Local clock offset: 0.457 ms

Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2018-09-25 20:01:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 586.71 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 443.21 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.41 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.00%

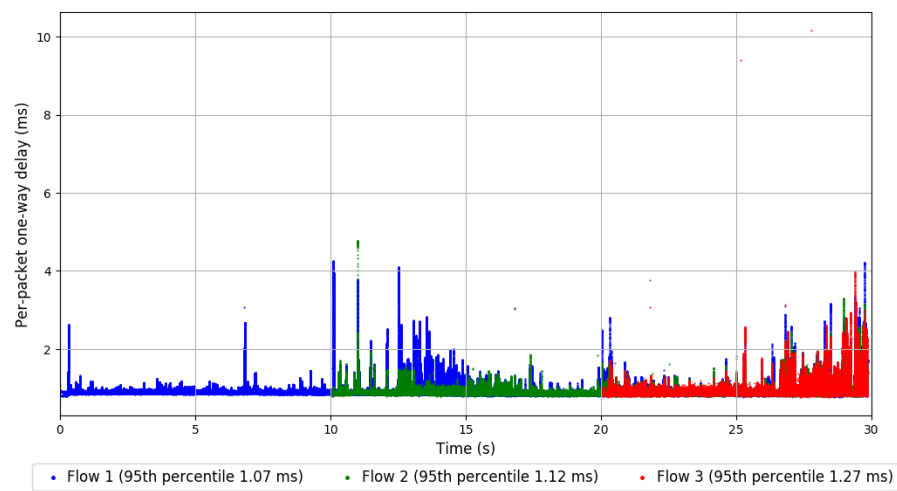
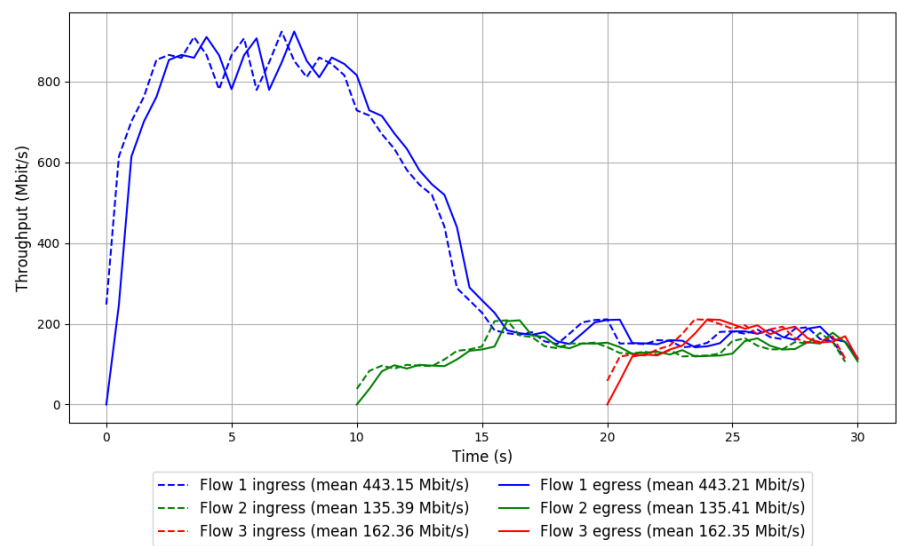
-- Flow 3:

Average throughput: 162.35 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link





Run 4: Statistics of PCC-Allegro

Start at: 2018-09-25 18:19:57

End at: 2018-09-25 18:20:27

Local clock offset: 0.502 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-09-25 20:01:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 556.64 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 476.85 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.02%

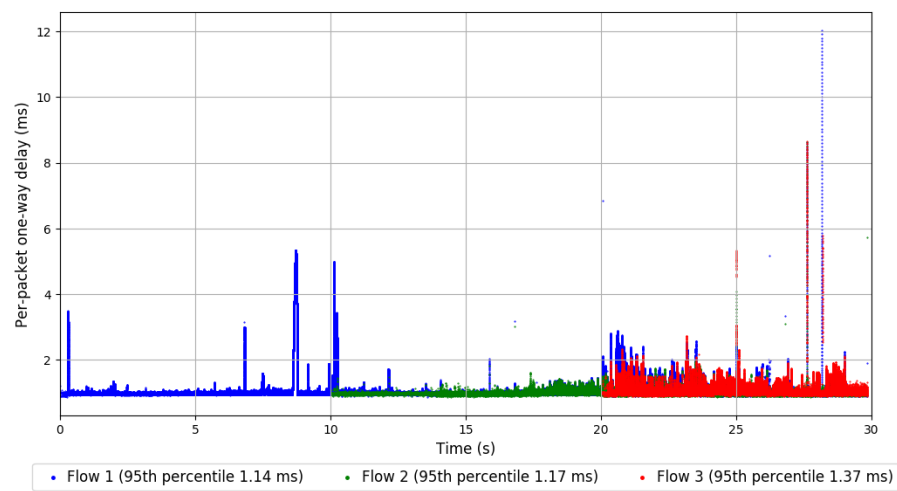
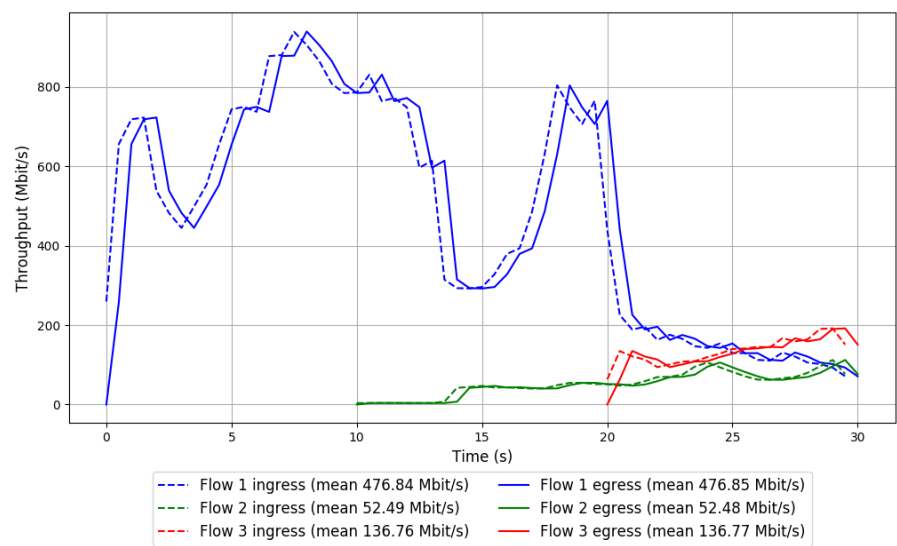
-- Flow 3:

Average throughput: 136.77 Mbit/s

95th percentile per-packet one-way delay: 1.366 ms

Loss rate: 0.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-09-25 18:49:29

End at: 2018-09-25 18:49:59

Local clock offset: 0.415 ms

Remote clock offset: 2.23 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 602.96 Mbit/s

95th percentile per-packet one-way delay: 1.538 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 468.49 Mbit/s

95th percentile per-packet one-way delay: 1.438 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.23 Mbit/s

95th percentile per-packet one-way delay: 1.572 ms

Loss rate: 0.02%

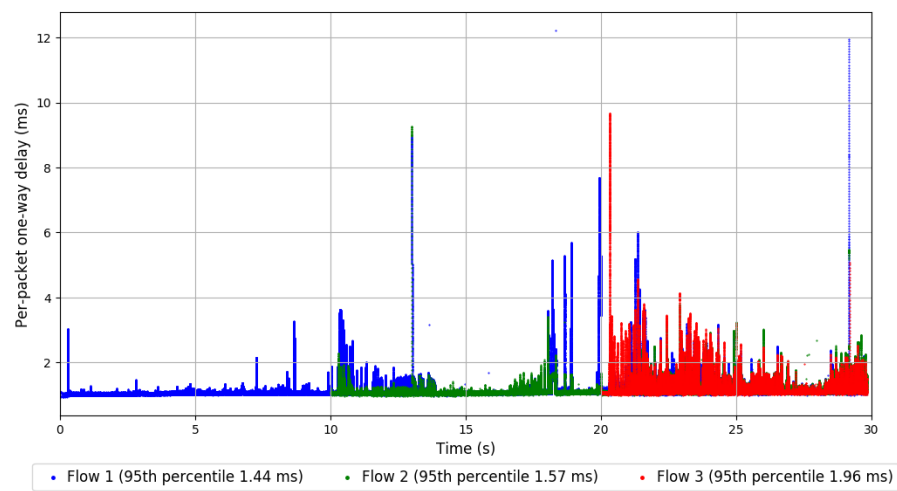
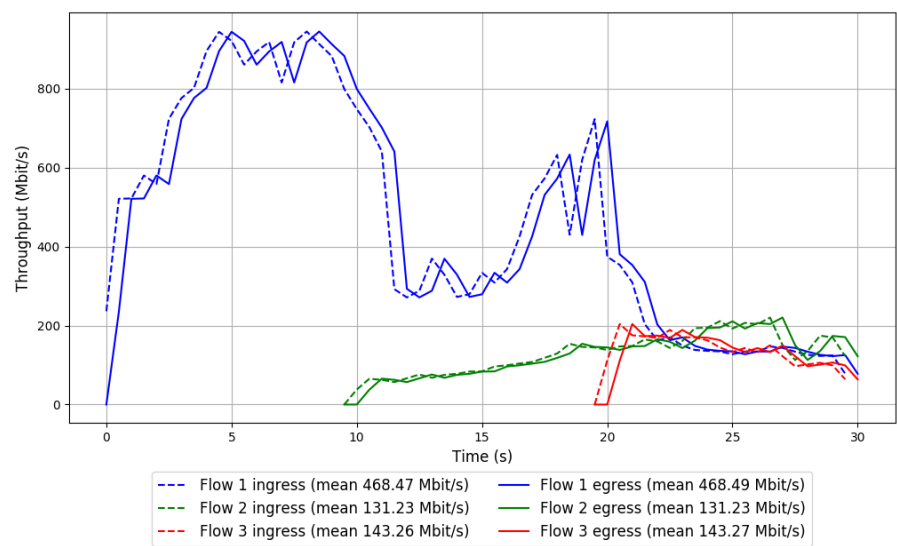
-- Flow 3:

Average throughput: 143.27 Mbit/s

95th percentile per-packet one-way delay: 1.963 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

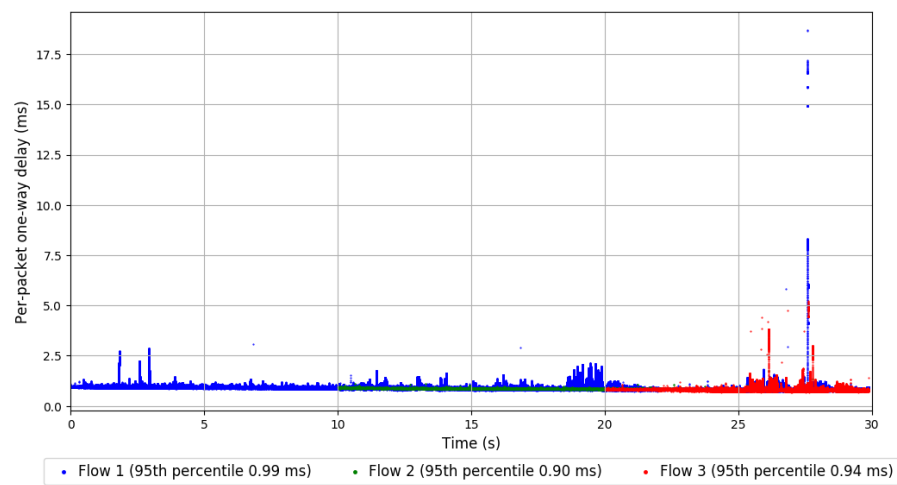
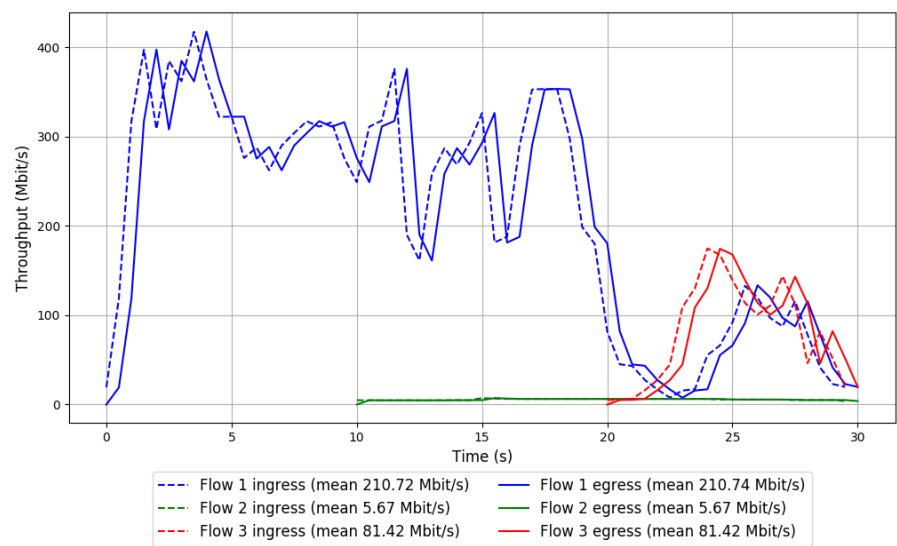


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-25 17:03:37
End at: 2018-09-25 17:04:07
Local clock offset: 0.962 ms
Remote clock offset: 2.744 ms

# Below is generated by plot.py at 2018-09-25 20:03:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.38 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.74 Mbit/s
95th percentile per-packet one-way delay: 0.991 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 0.897 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 81.42 Mbit/s
95th percentile per-packet one-way delay: 0.944 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-09-25 17:33:17

End at: 2018-09-25 17:33:47

Local clock offset: 0.144 ms

Remote clock offset: 0.529 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 189.00 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.00%

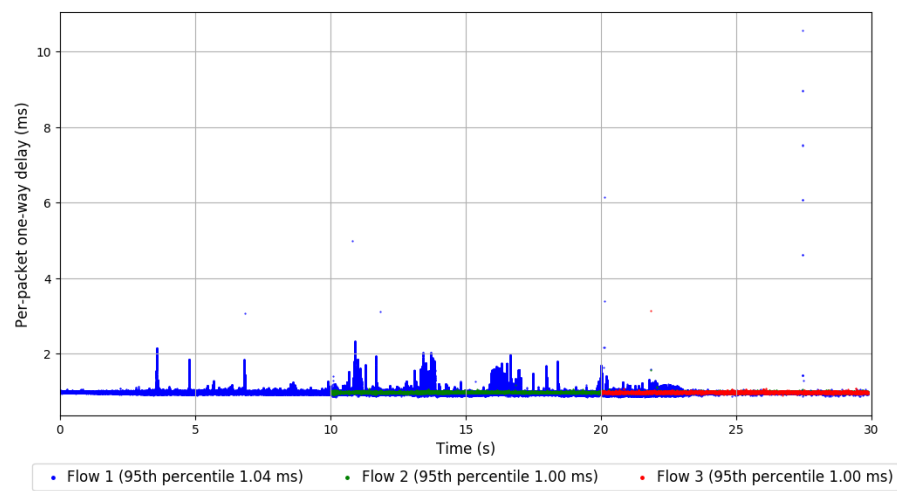
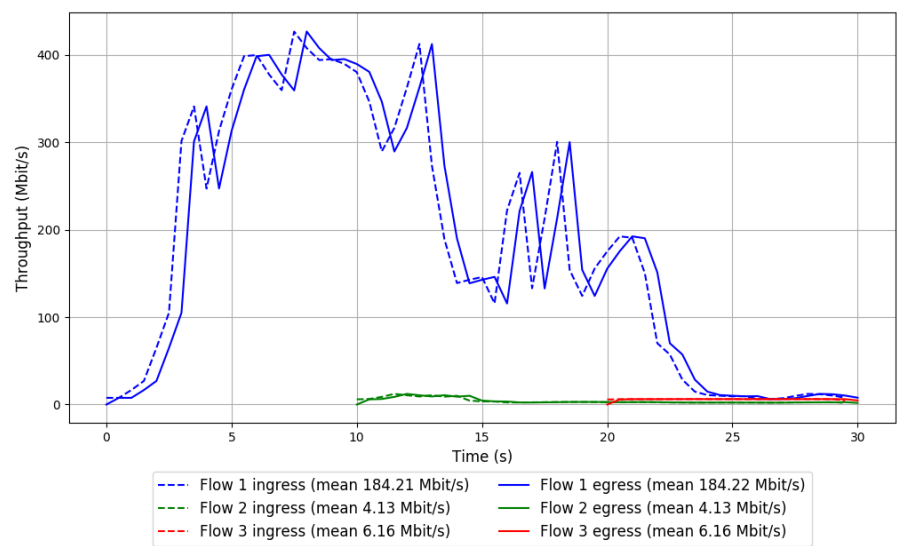
-- Flow 3:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link





Run 3: Statistics of PCC-Expr

Start at: 2018-09-25 18:02:48

End at: 2018-09-25 18:03:18

Local clock offset: 0.863 ms

Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 5.95 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.86 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 0.00%

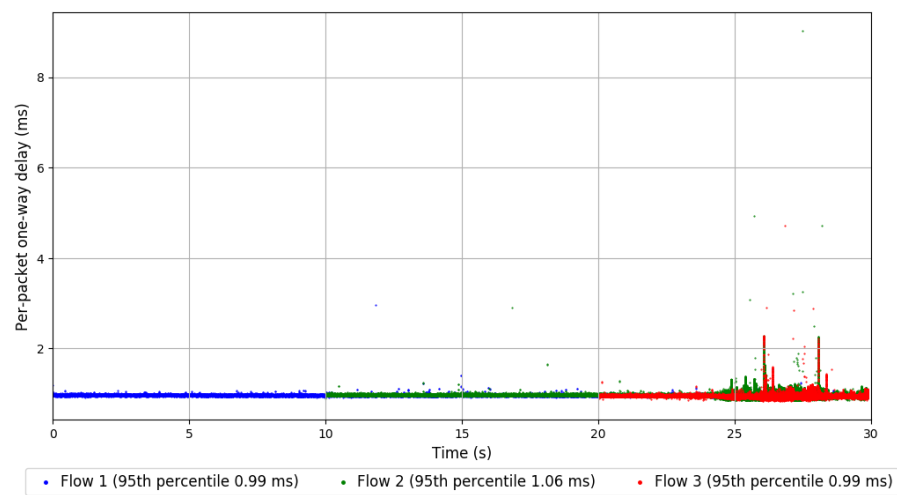
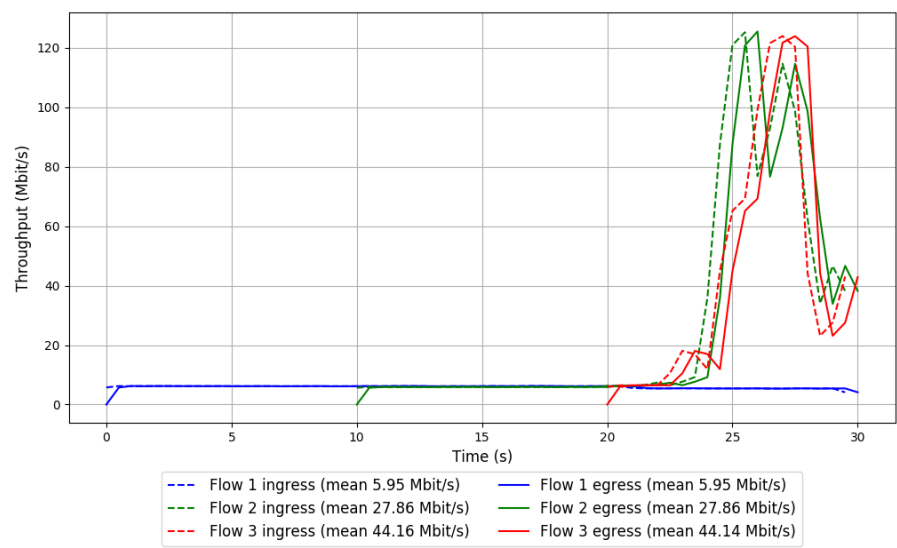
-- Flow 3:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.08%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-09-25 18:32:12

End at: 2018-09-25 18:32:42

Local clock offset: 0.409 ms

Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 208.81 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 203.35 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 0.965 ms

Loss rate: 0.00%

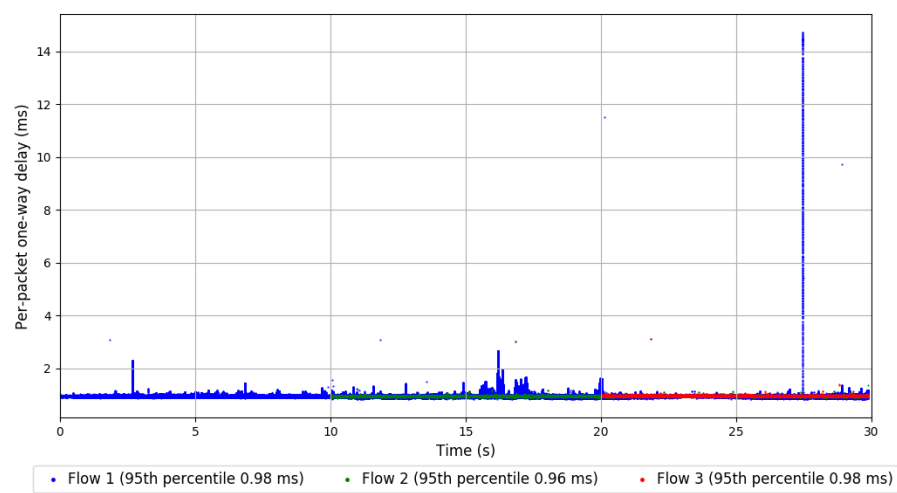
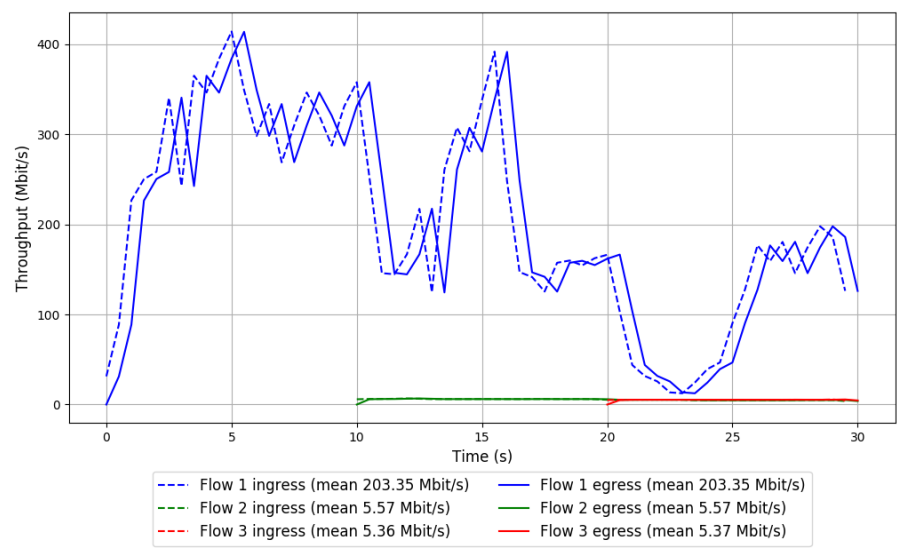
-- Flow 3:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.02%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-09-25 19:01:45

End at: 2018-09-25 19:02:15

Local clock offset: 0.494 ms

Remote clock offset: 3.632 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 5.95 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.01%

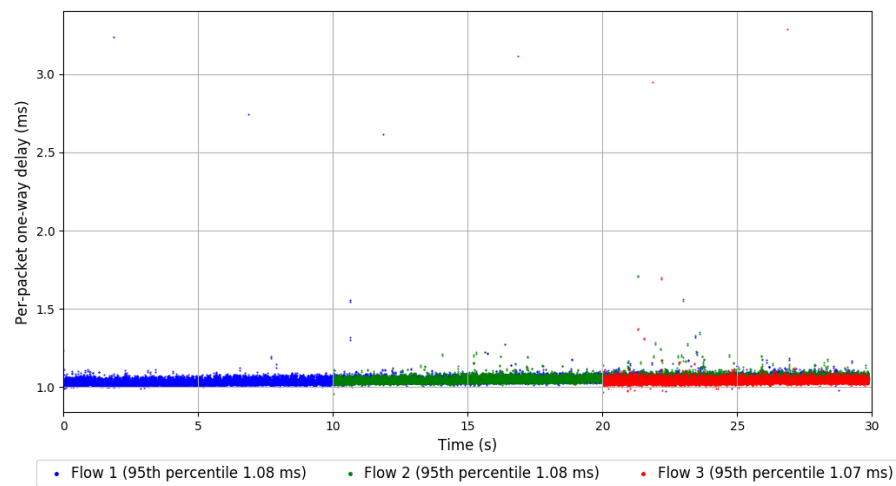
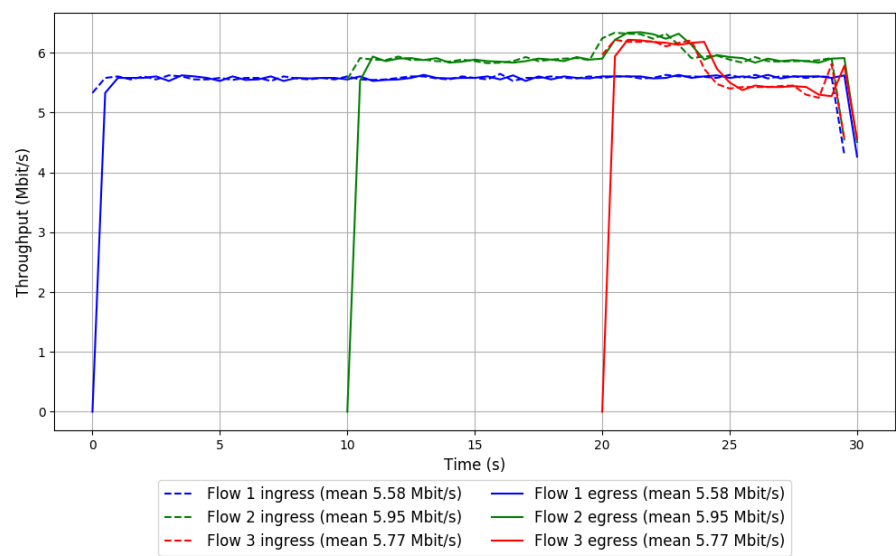
-- Flow 3:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.02%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-09-25 16:48:17

End at: 2018-09-25 16:48:47

Local clock offset: 1.017 ms

Remote clock offset: 3.724 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 141.35 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.48 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.01%

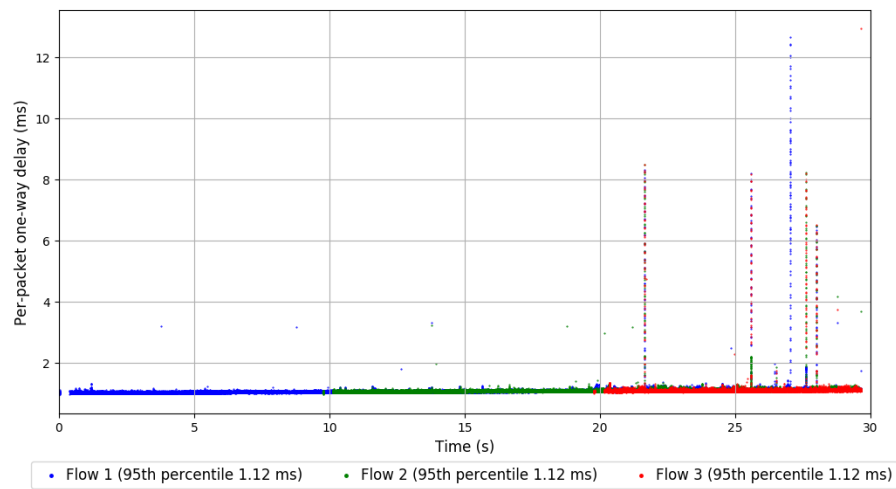
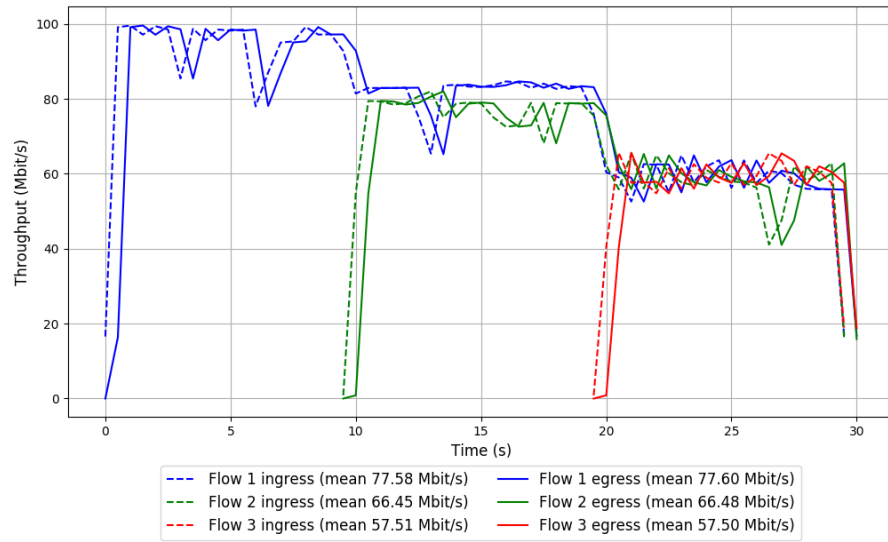
-- Flow 3:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.02%

## Run 1: Report of QUIC Cubic — Data Link





Run 2: Statistics of QUIC Cubic

Start at: 2018-09-25 17:17:48

End at: 2018-09-25 17:18:18

Local clock offset: 0.469 ms

Remote clock offset: 0.695 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 141.45 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.80 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.01%

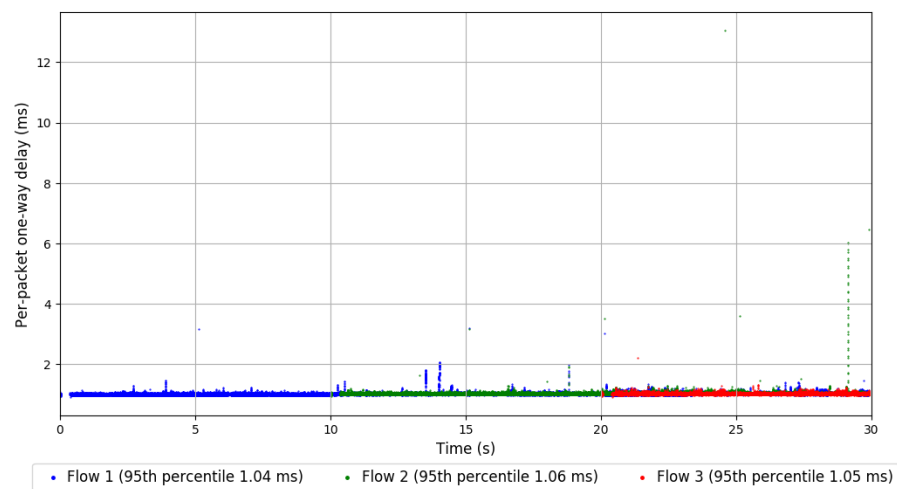
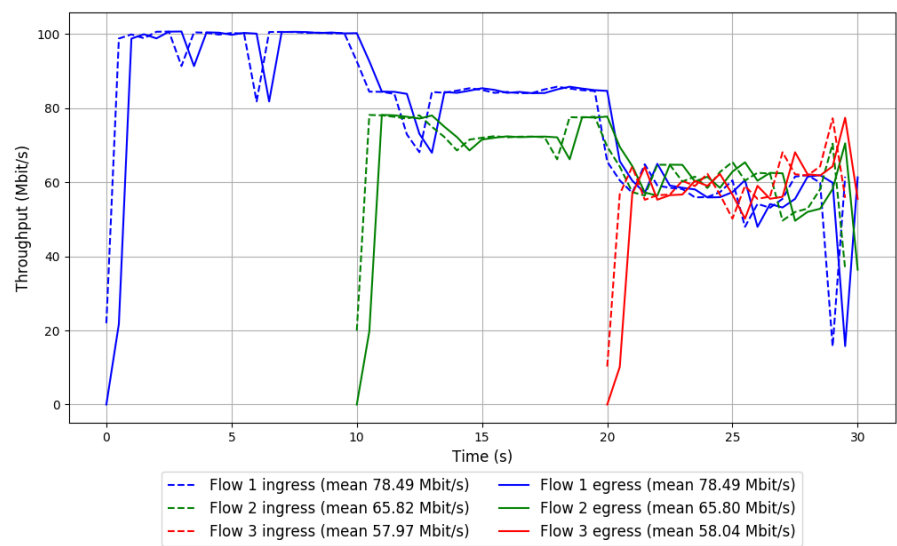
-- Flow 3:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-09-25 17:47:20

End at: 2018-09-25 17:47:50

Local clock offset: 0.341 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 141.98 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.01%

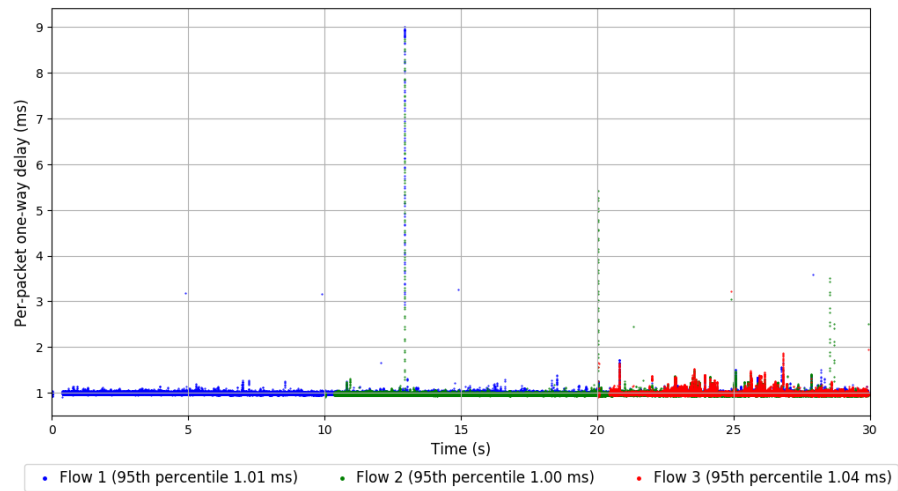
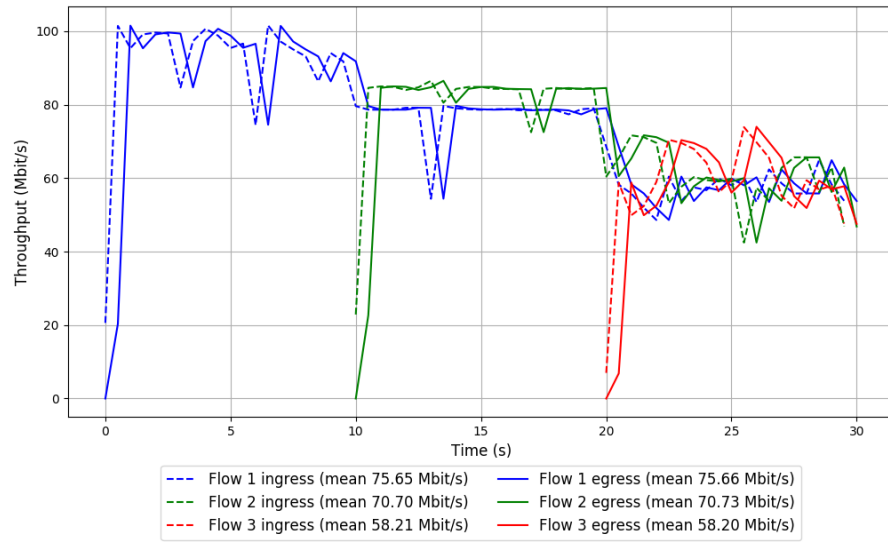
-- Flow 3:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 1.039 ms

Loss rate: 0.02%

### Run 3: Report of QUIC Cubic — Data Link

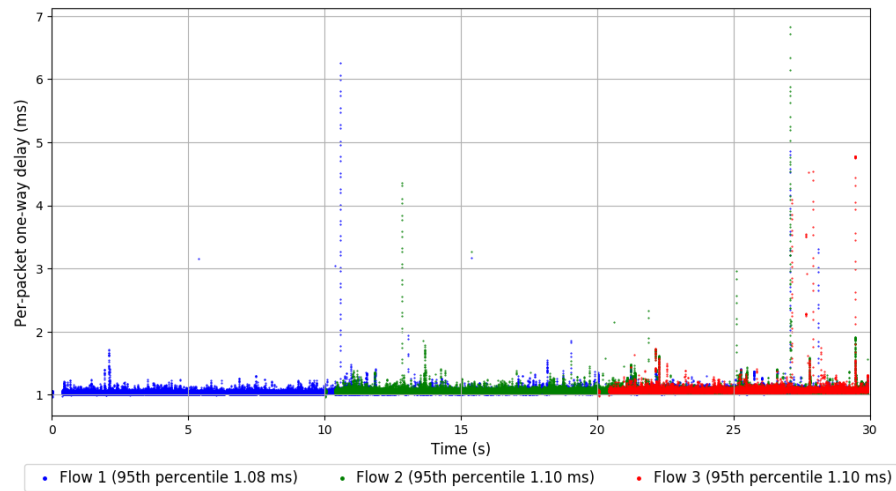
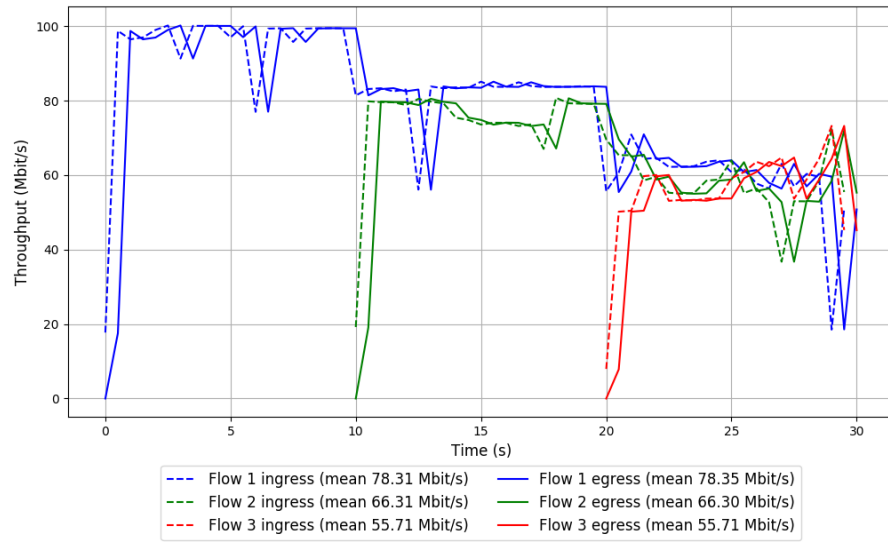


Run 4: Statistics of QUIC Cubic

Start at: 2018-09-25 18:16:48  
End at: 2018-09-25 18:17:18  
Local clock offset: 0.597 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-09-25 20:03:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 140.85 Mbit/s  
95th percentile per-packet one-way delay: 1.090 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 78.35 Mbit/s  
95th percentile per-packet one-way delay: 1.076 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 66.30 Mbit/s  
95th percentile per-packet one-way delay: 1.098 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 55.71 Mbit/s  
95th percentile per-packet one-way delay: 1.101 ms  
Loss rate: 0.02%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-09-25 18:46:20

End at: 2018-09-25 18:46:50

Local clock offset: 0.407 ms

Remote clock offset: 1.619 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 136.96 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 71.33 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 71.46 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.00%

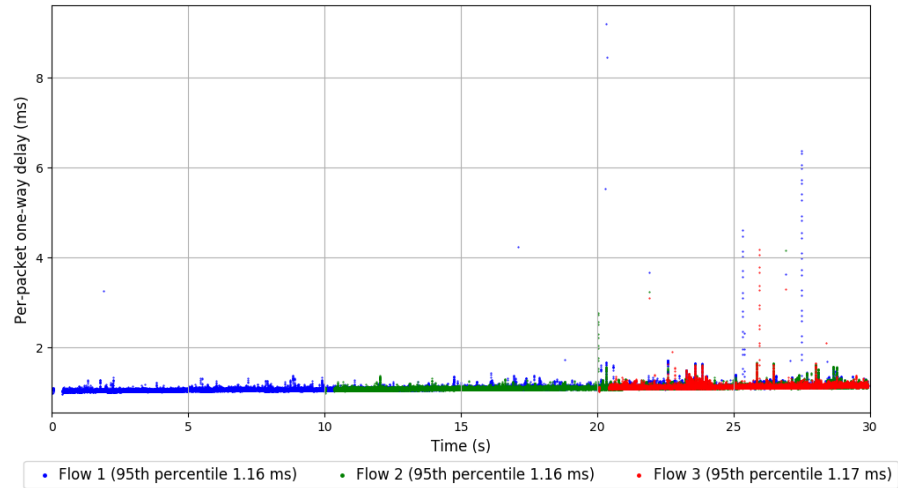
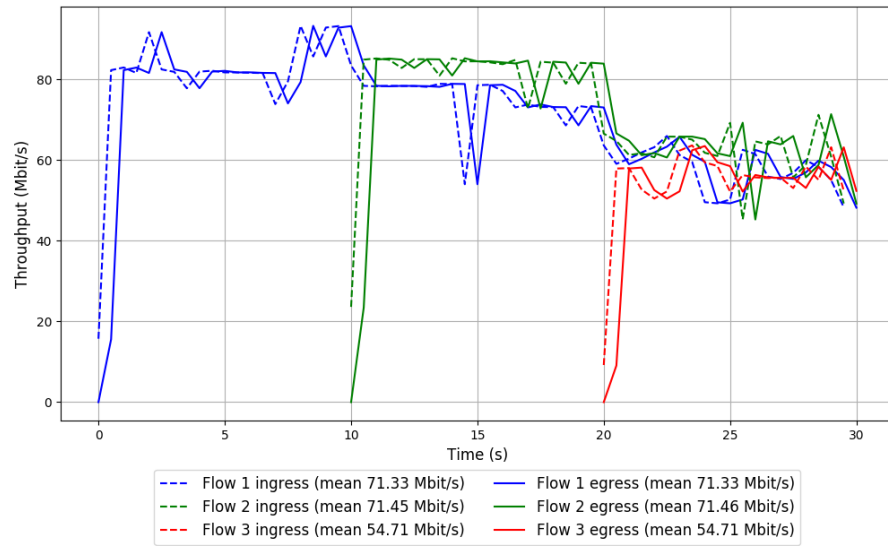
-- Flow 3:

Average throughput: 54.71 Mbit/s

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

Loss rate: 0.02%

## Run 5: Report of QUIC Cubic — Data Link



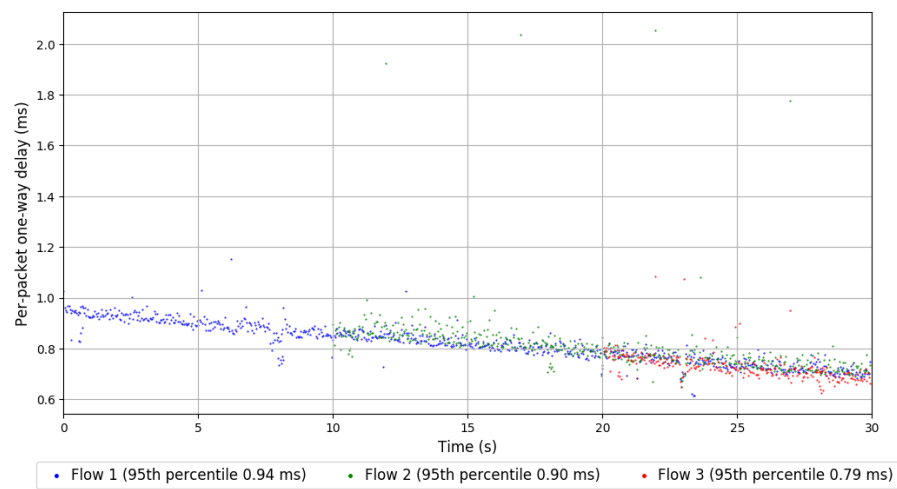
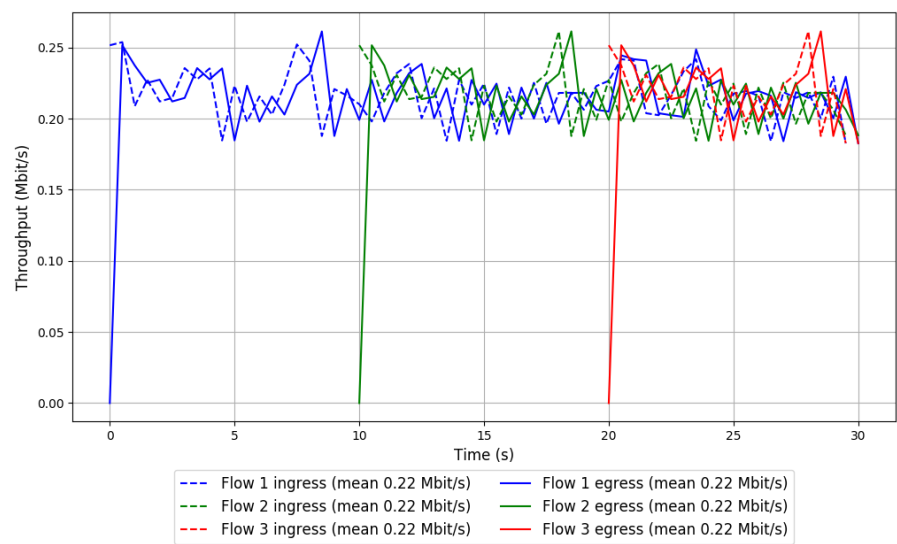


```
Run 1: Statistics of SReAM

Start at: 2018-09-25 16:59:25
End at: 2018-09-25 16:59:55
Local clock offset: 0.948 ms
Remote clock offset: 4.558 ms

# Below is generated by plot.py at 2018-09-25 20:03:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.940 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.794 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-09-25 17:29:03

End at: 2018-09-25 17:29:33

Local clock offset: 0.189 ms

Remote clock offset: 0.645 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.00%

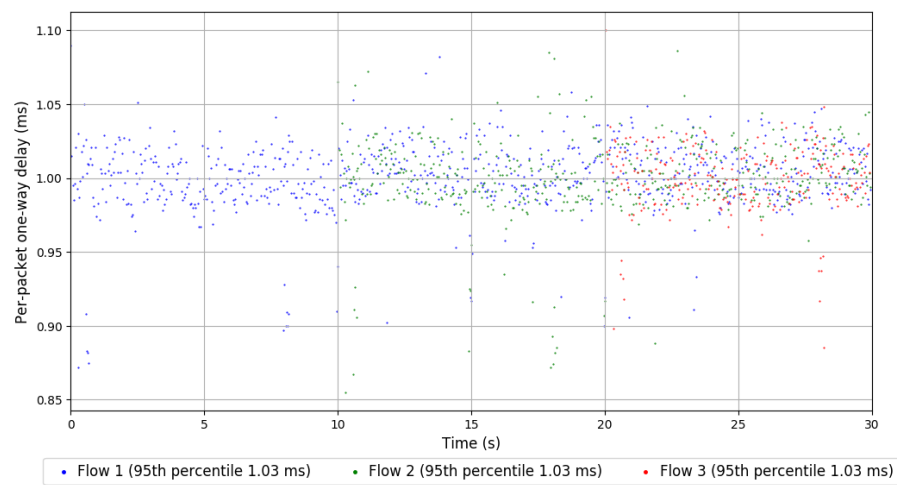
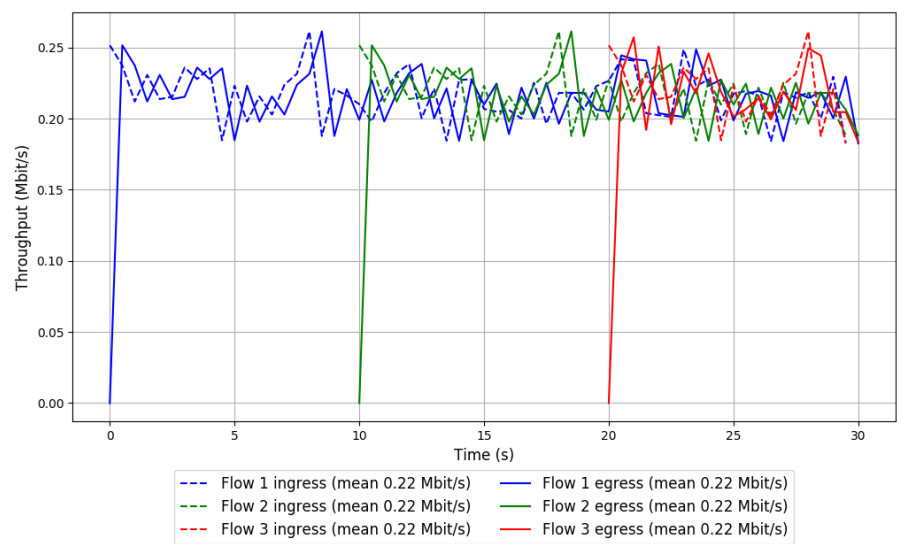
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-09-25 17:58:35

End at: 2018-09-25 17:59:05

Local clock offset: 0.761 ms

Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.00%

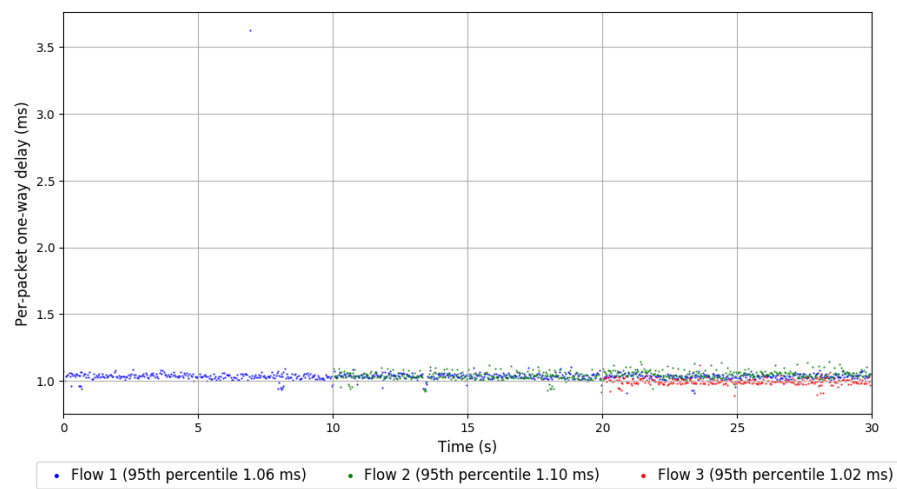
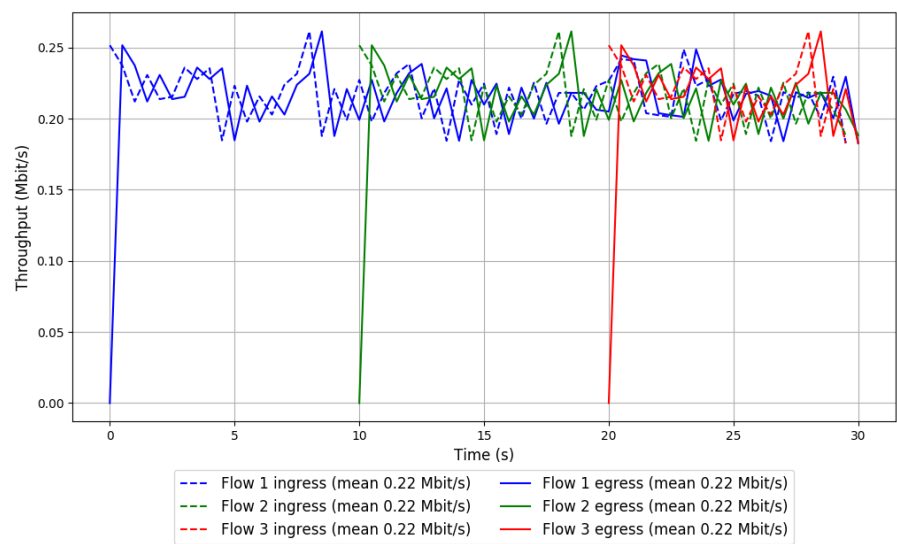
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-09-25 18:27:59

End at: 2018-09-25 18:28:29

Local clock offset: 0.407 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.00%

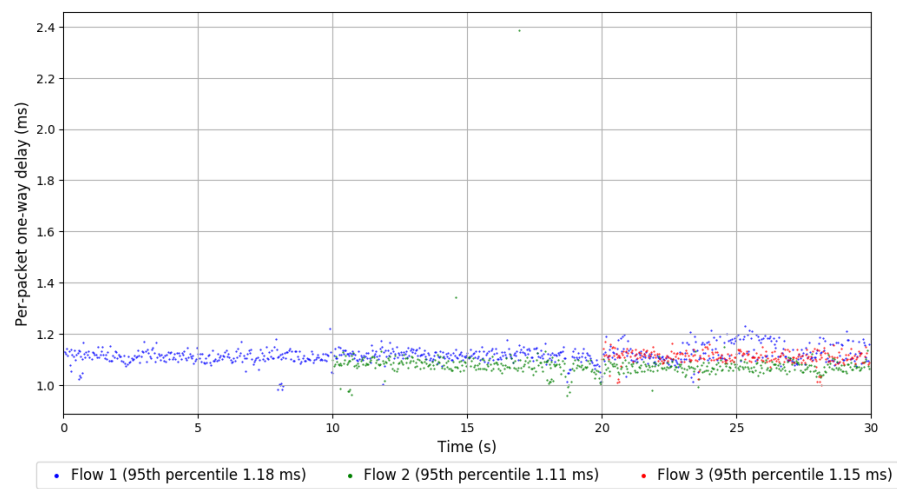
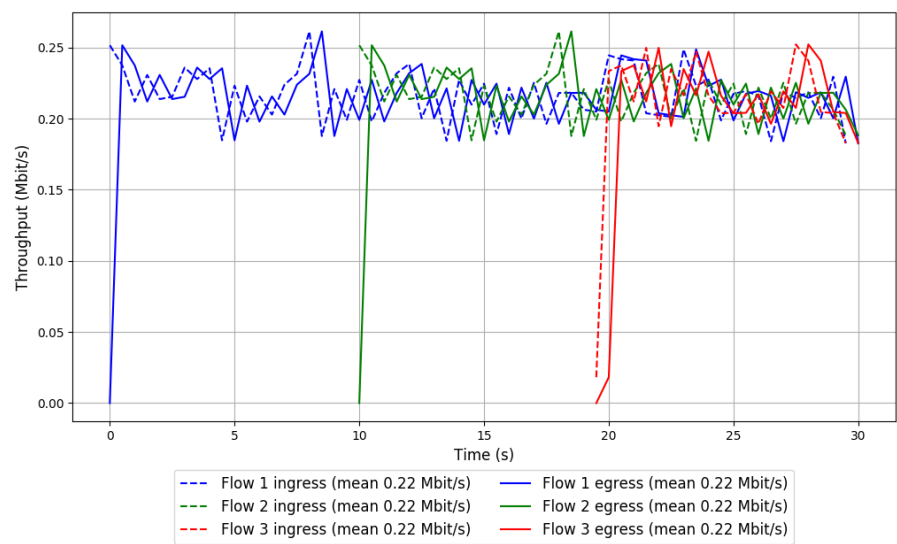
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link





Run 5: Statistics of SReAM

Start at: 2018-09-25 18:57:33

End at: 2018-09-25 18:58:03

Local clock offset: 0.458 ms

Remote clock offset: 3.34 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.00%

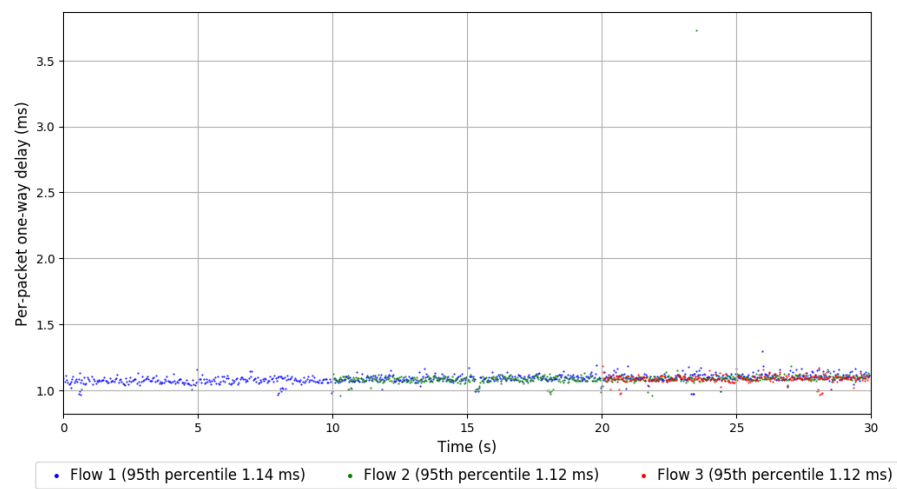
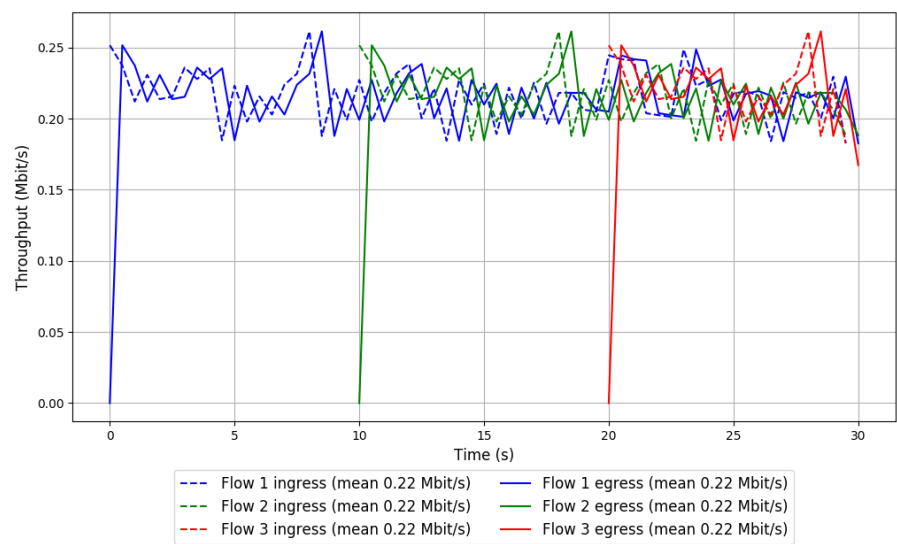
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-09-25 16:35:44

End at: 2018-09-25 16:36:14

Local clock offset: 1.476 ms

Remote clock offset: 1.057 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.91 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.00%

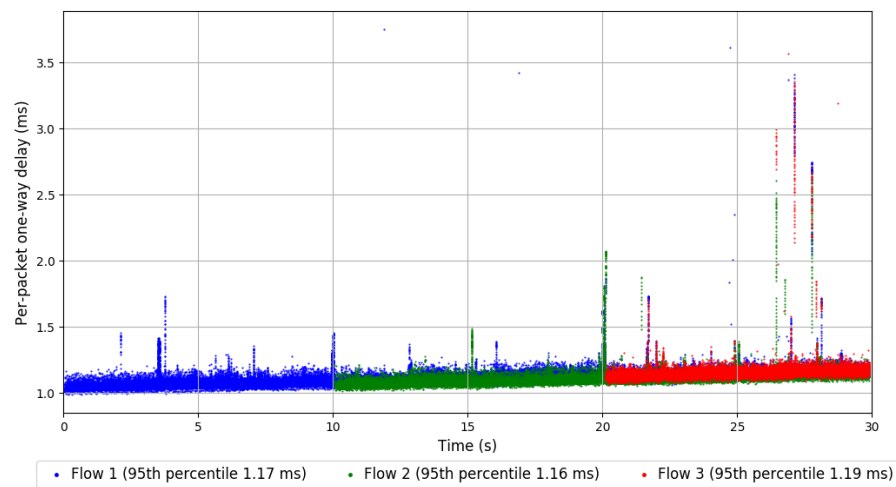
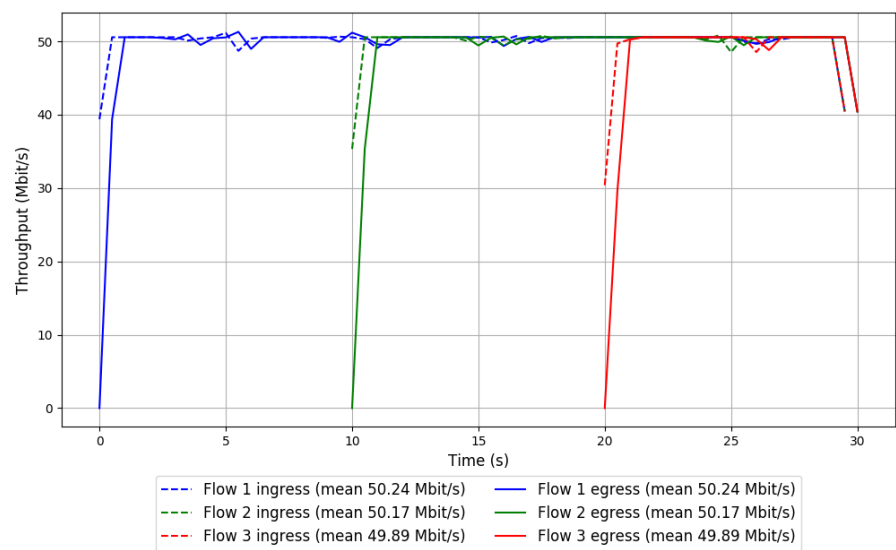
-- Flow 3:

Average throughput: 49.89 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



## Run 2: Statistics of Sprout

Start at: 2018-09-25 17:05:11

End at: 2018-09-25 17:05:41

Local clock offset: 0.98 ms

Remote clock offset: 2.335 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 100.00 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 0.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.14 Mbit/s

95th percentile per-packet one-way delay: 0.922 ms

Loss rate: 0.01%

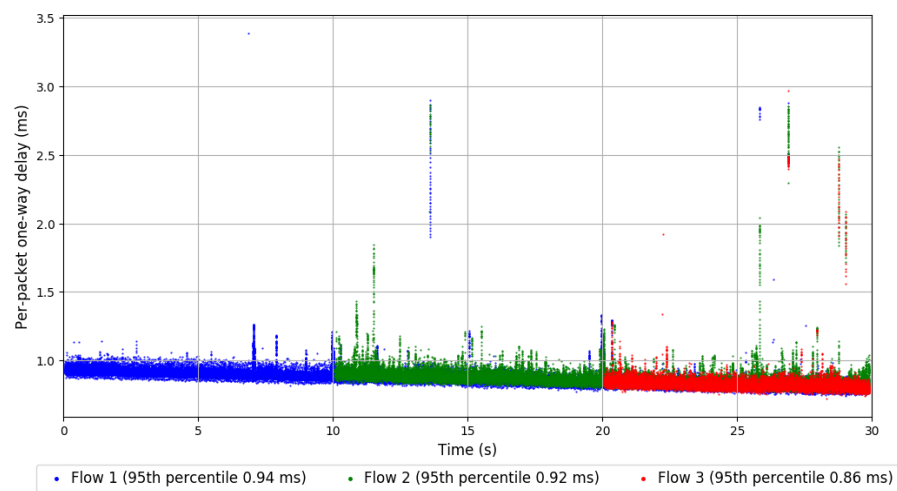
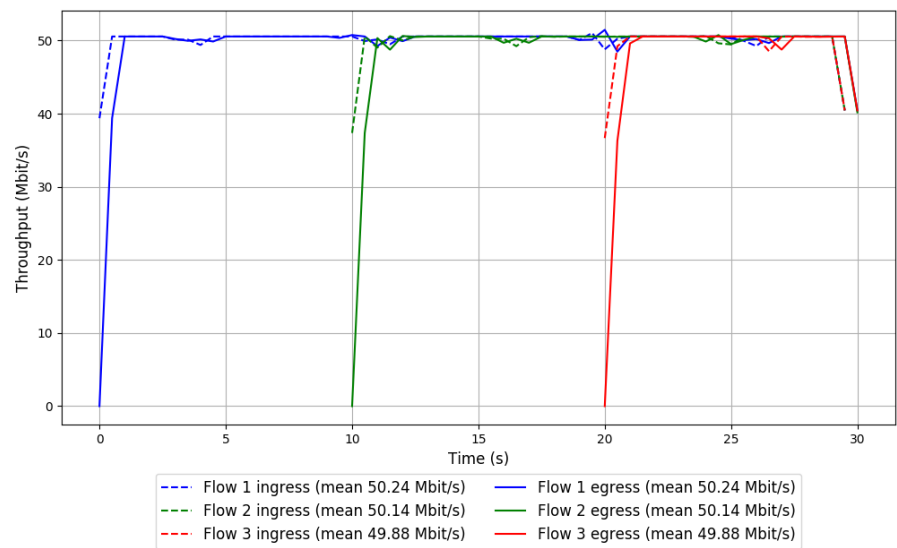
-- Flow 3:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 0.863 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-09-25 17:34:47

End at: 2018-09-25 17:35:17

Local clock offset: 0.09 ms

Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2018-09-25 20:03:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.95 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.00%

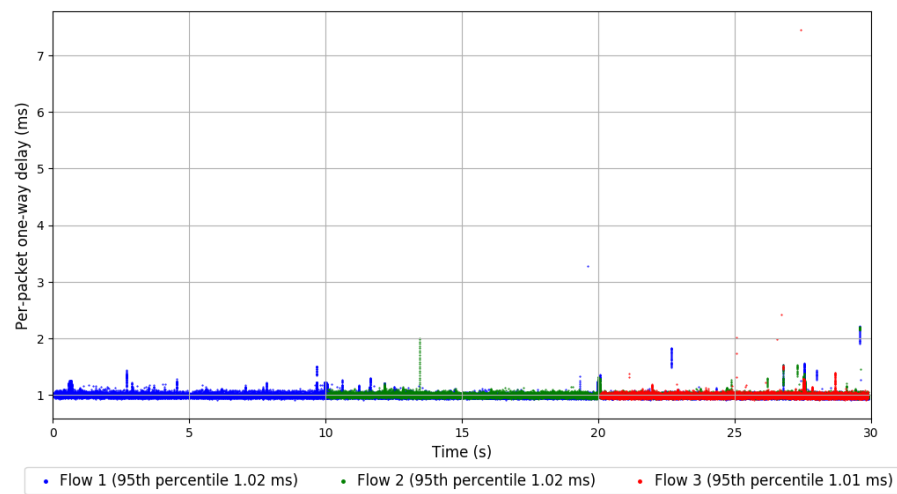
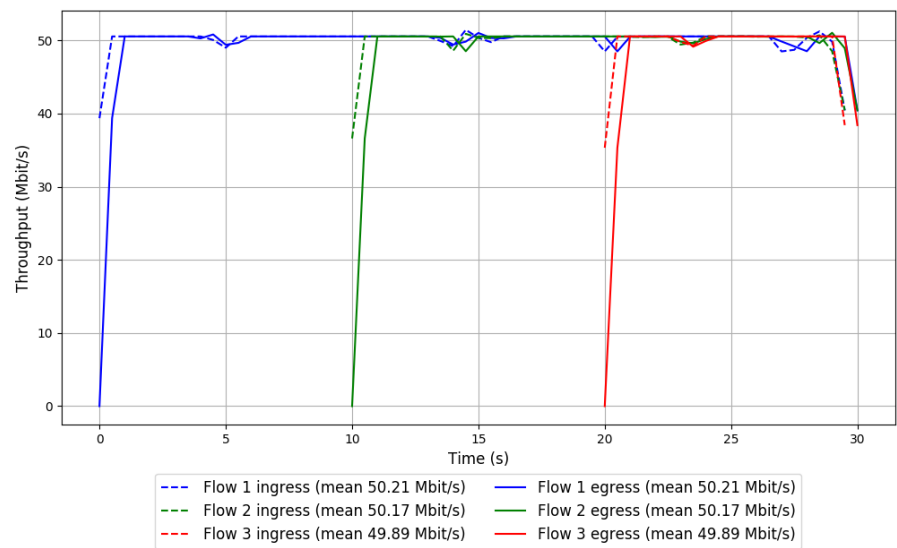
-- Flow 3:

Average throughput: 49.89 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



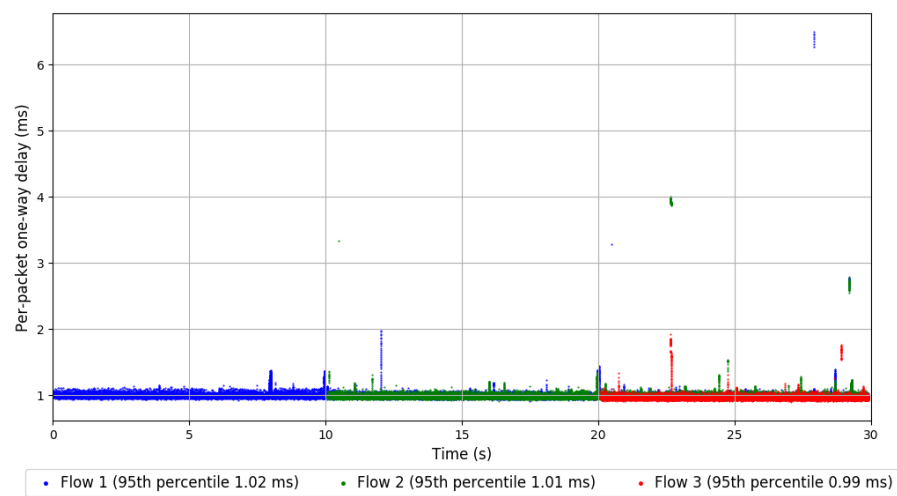
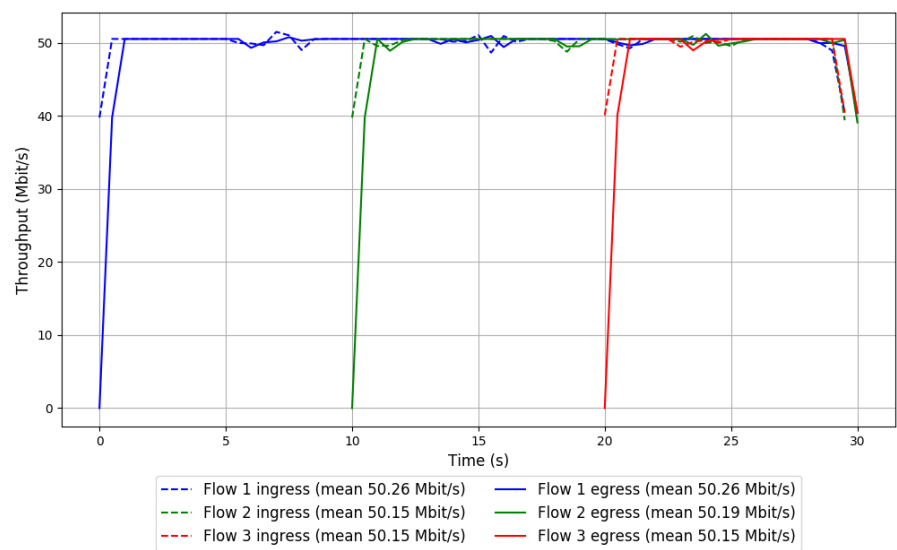


#### Run 4: Statistics of Sprout

Start at: 2018-09-25 18:04:10  
End at: 2018-09-25 18:04:40  
Local clock offset: 0.891 ms  
Remote clock offset: 0.135 ms

```
# Below is generated by plot.py at 2018-09-25 20:03:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.11 Mbit/s
95th percentile per-packet one-way delay: 1.016 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 0.992 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-09-25 18:33:44

End at: 2018-09-25 18:34:14

Local clock offset: 0.422 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-09-25 20:03:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 100.02 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.00%

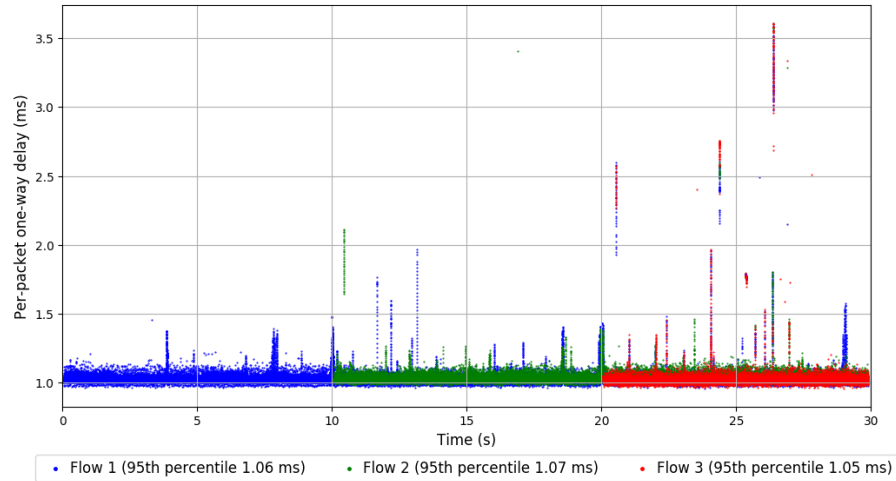
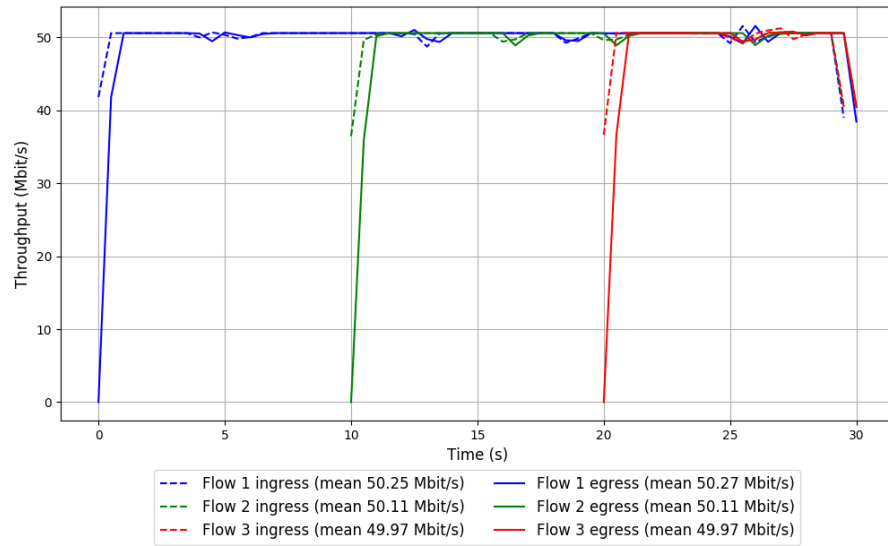
-- Flow 3:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-09-25 16:42:09

End at: 2018-09-25 16:42:39

Local clock offset: 1.364 ms

Remote clock offset: 2.667 ms

# Below is generated by plot.py at 2018-09-25 20:05:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 122.60 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.00%

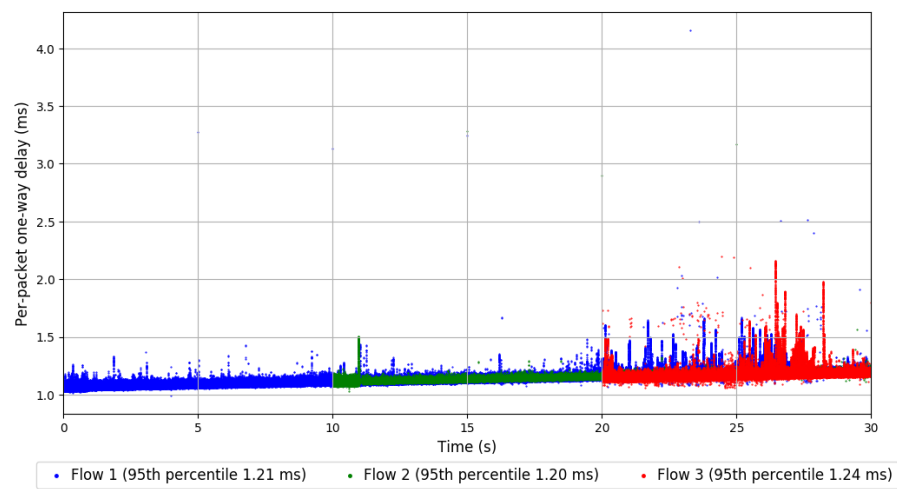
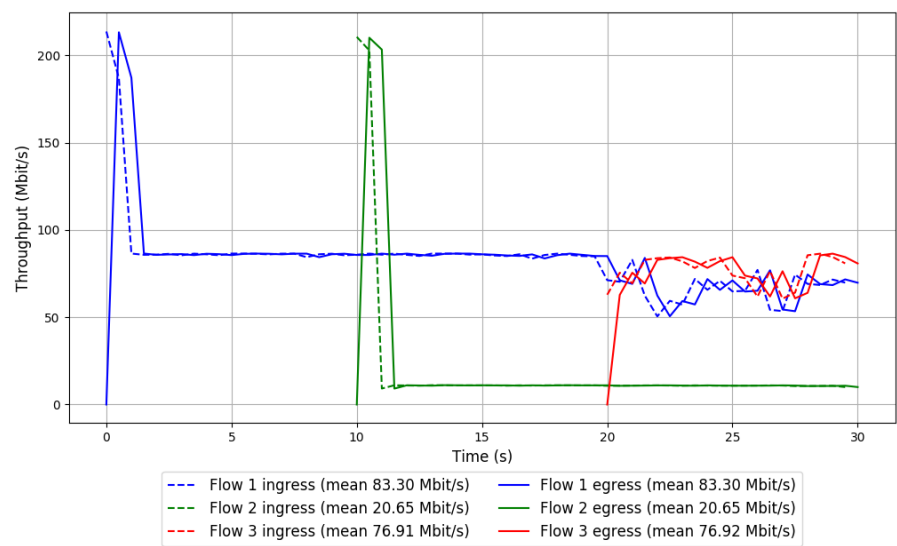
-- Flow 3:

Average throughput: 76.92 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-09-25 17:11:37

End at: 2018-09-25 17:12:07

Local clock offset: 0.829 ms

Remote clock offset: 1.205 ms

# Below is generated by plot.py at 2018-09-25 20:05:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 118.89 Mbit/s

95th percentile per-packet one-way delay: 0.989 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 84.20 Mbit/s

95th percentile per-packet one-way delay: 0.990 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.00%

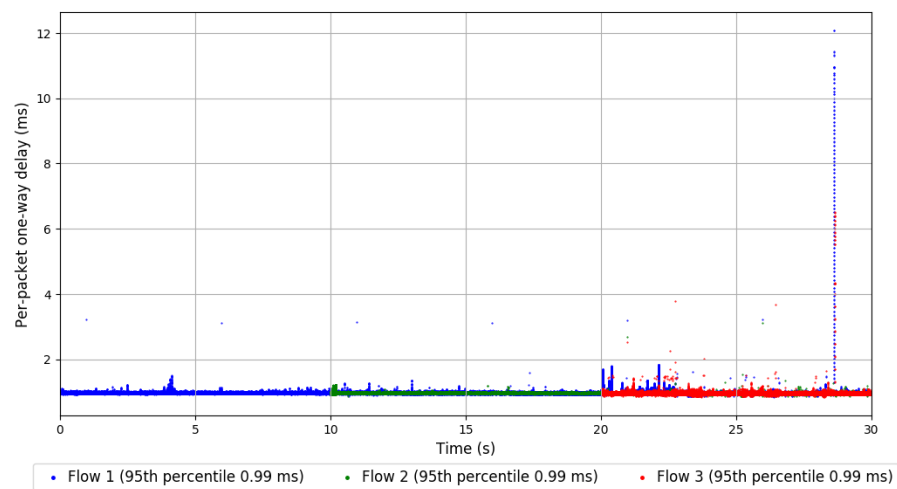
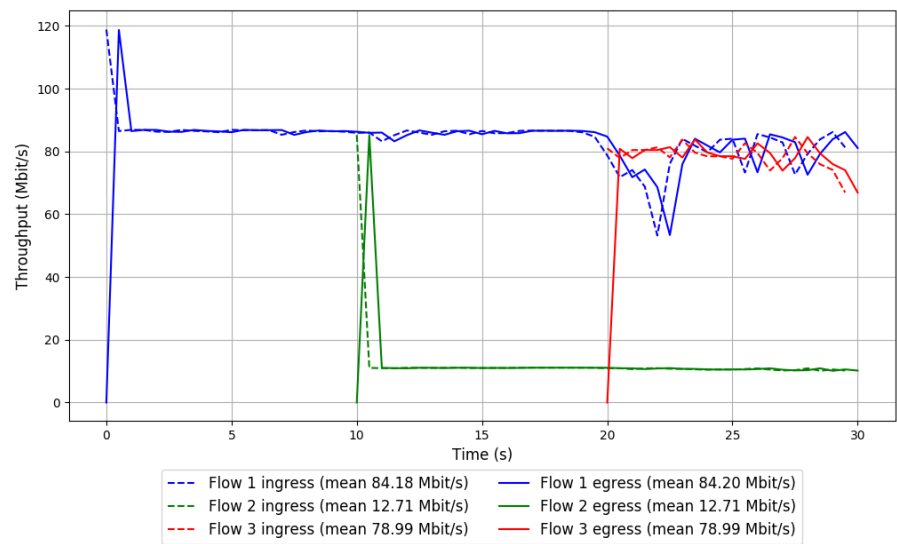
-- Flow 3:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.02%

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





Run 3: Statistics of TaoVA-100x

Start at: 2018-09-25 17:41:13

End at: 2018-09-25 17:41:43

Local clock offset: 0.13 ms

Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2018-09-25 20:05:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.40 Mbit/s

95th percentile per-packet one-way delay: 0.997 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.01%

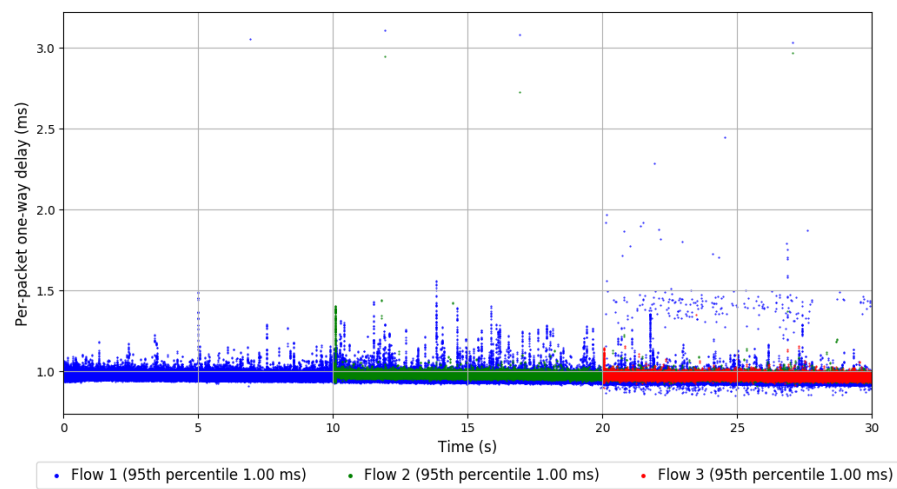
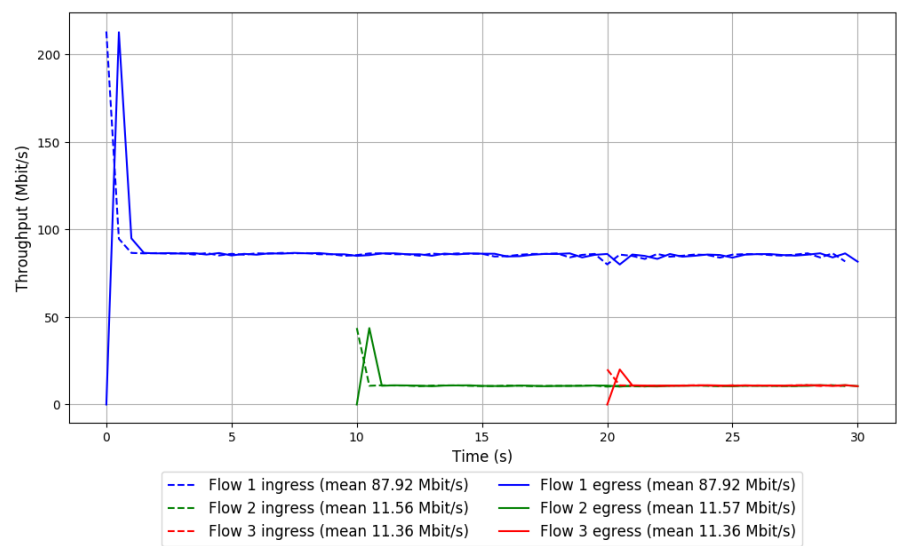
-- Flow 3:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-09-25 18:10:37

End at: 2018-09-25 18:11:07

Local clock offset: 0.954 ms

Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2018-09-25 20:05:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 122.42 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 17.05 Mbit/s

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

Loss rate: 0.00%

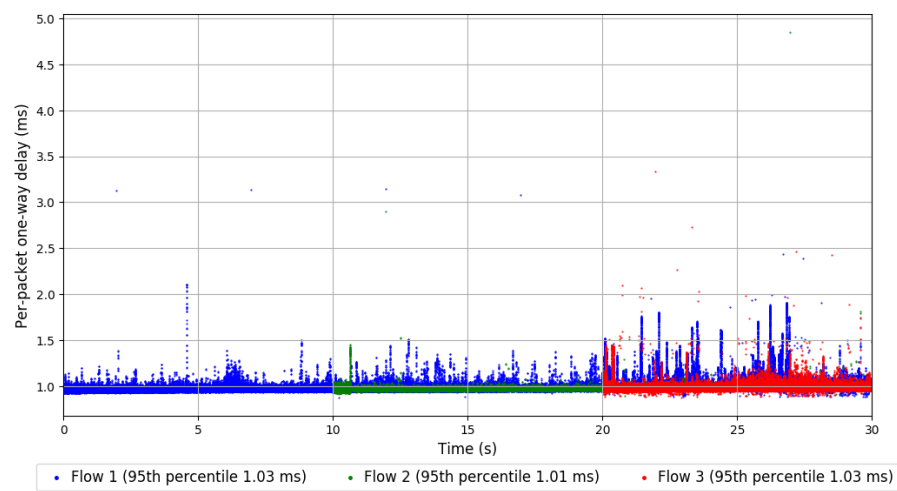
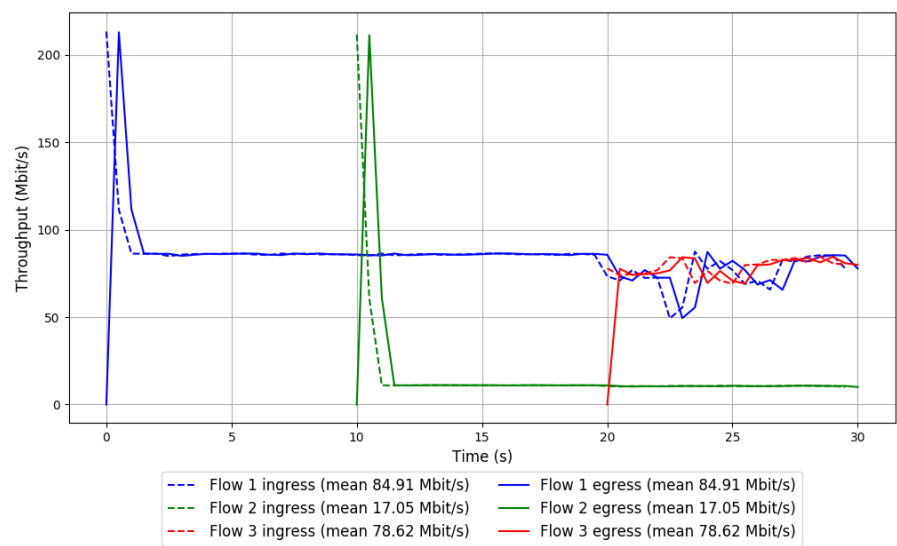
-- Flow 3:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-09-25 18:40:12

End at: 2018-09-25 18:40:42

Local clock offset: 0.451 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-09-25 20:05:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 108.86 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.00%

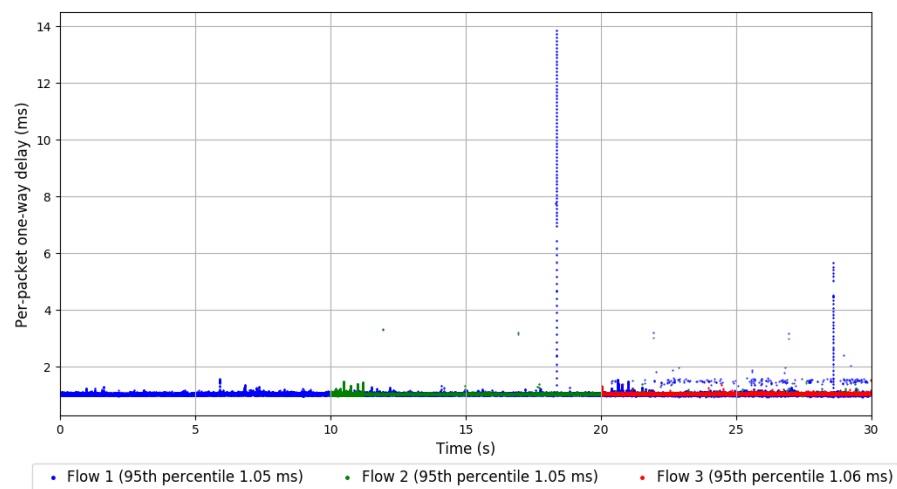
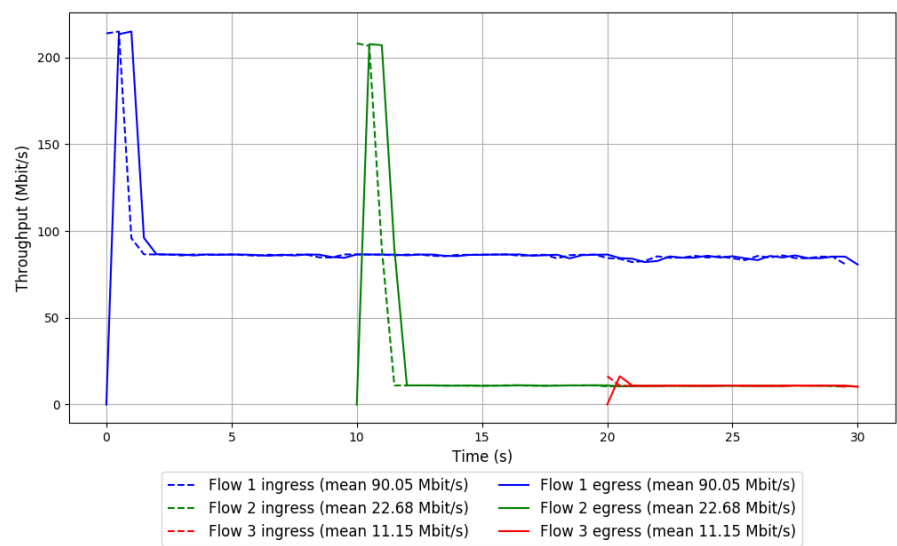
-- Flow 3:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-09-25 17:02:03

End at: 2018-09-25 17:02:33

Local clock offset: 0.983 ms

Remote clock offset: 3.308 ms

# Below is generated by plot.py at 2018-09-25 20:08:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 473.85 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 233.00 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 247.81 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.01%

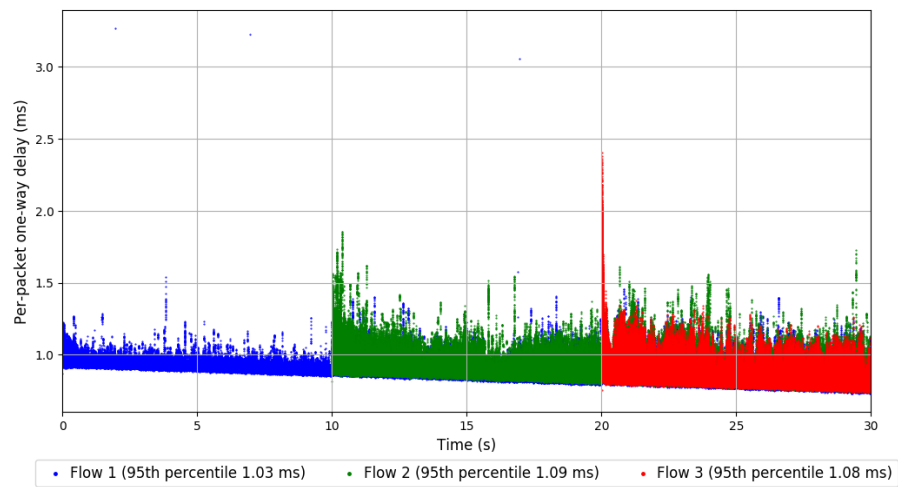
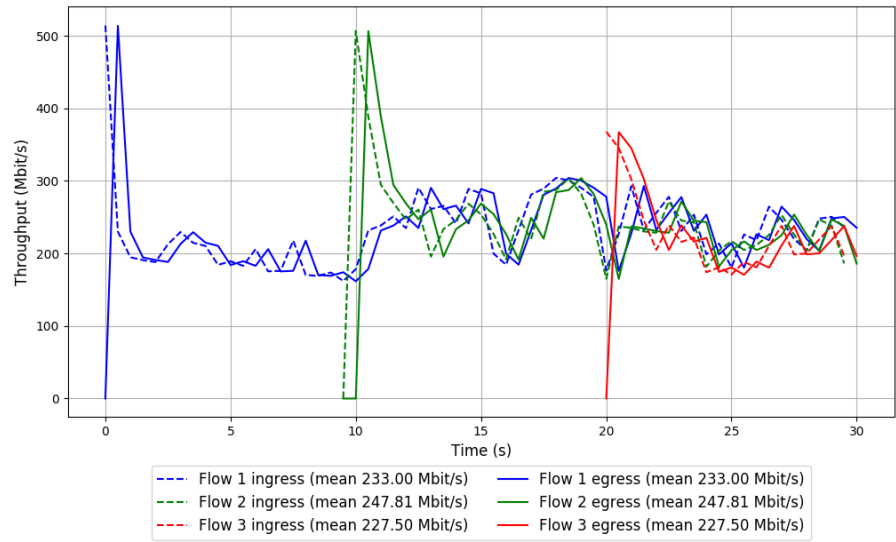
-- Flow 3:

Average throughput: 227.50 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.02%

# Run 1: Report of TCP Vegas — Data Link



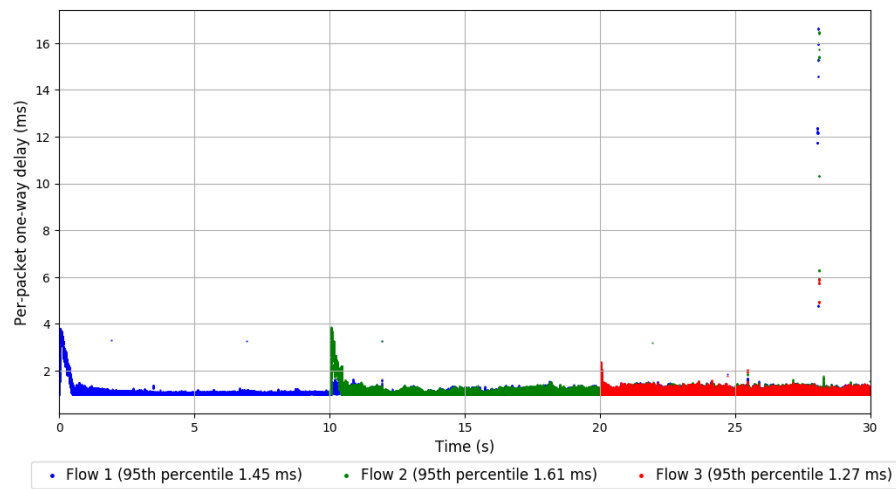
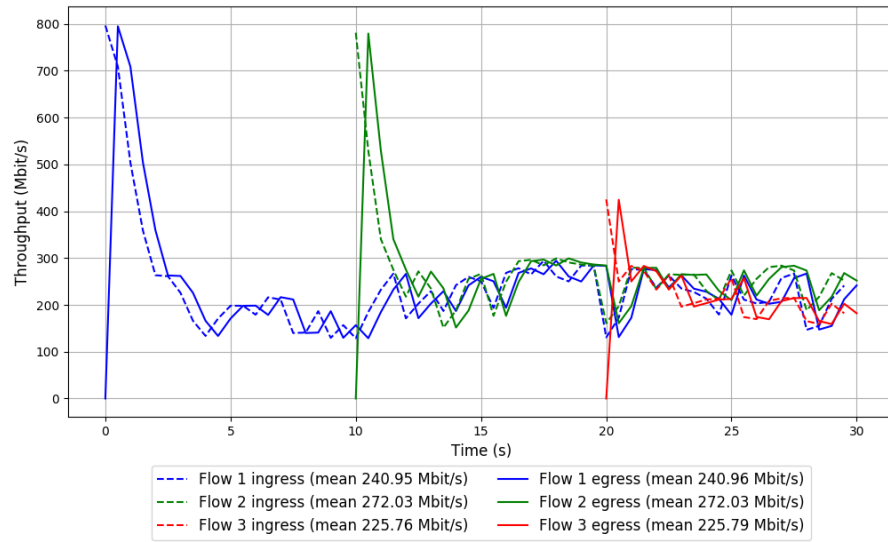


Run 2: Statistics of TCP Vegas

Start at: 2018-09-25 17:31:41  
End at: 2018-09-25 17:32:11  
Local clock offset: 0.178 ms  
Remote clock offset: 0.544 ms

# Below is generated by plot.py at 2018-09-25 20:09:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.13 Mbit/s  
95th percentile per-packet one-way delay: 1.375 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 240.96 Mbit/s  
95th percentile per-packet one-way delay: 1.447 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 272.03 Mbit/s  
95th percentile per-packet one-way delay: 1.615 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 225.79 Mbit/s  
95th percentile per-packet one-way delay: 1.272 ms  
Loss rate: 0.01%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-09-25 18:01:13

End at: 2018-09-25 18:01:43

Local clock offset: 0.821 ms

Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2018-09-25 20:09:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 505.34 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 244.73 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 250.85 Mbit/s

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

Loss rate: 0.01%

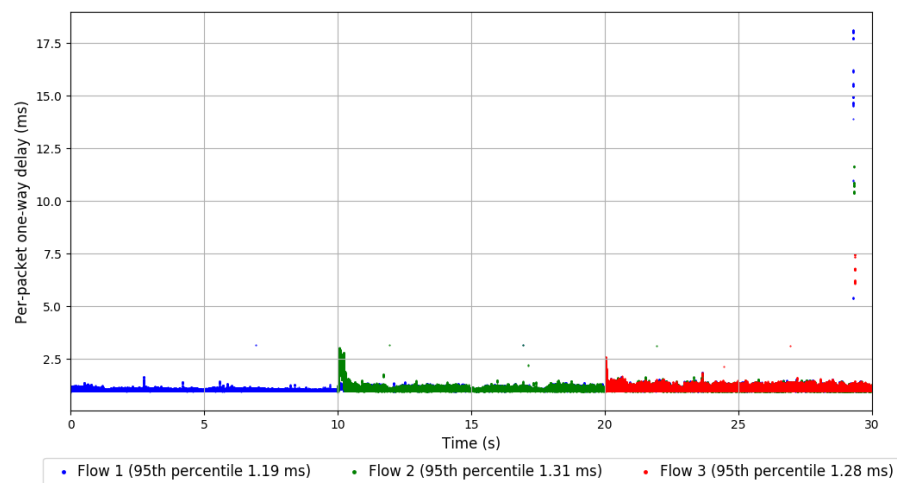
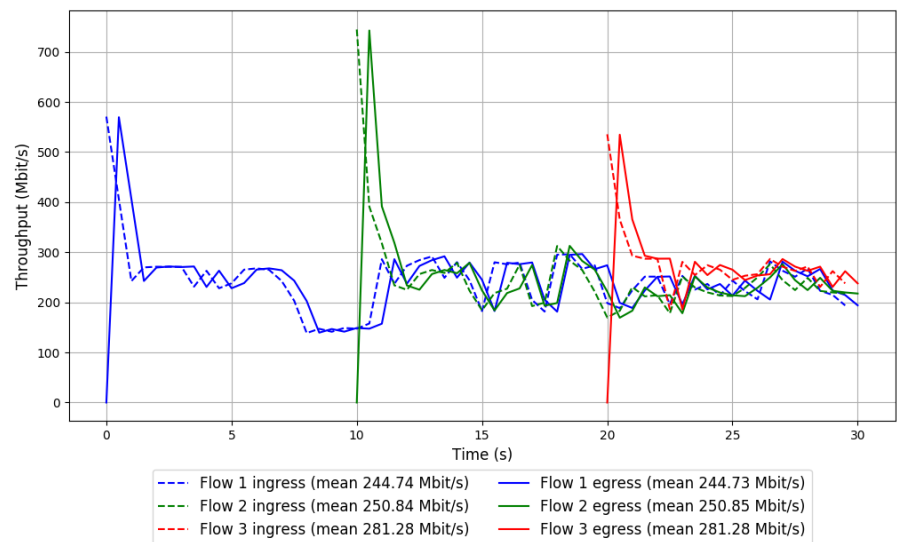
-- Flow 3:

Average throughput: 281.28 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-09-25 18:30:37

End at: 2018-09-25 18:31:07

Local clock offset: 0.404 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2018-09-25 20:10:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 471.58 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 241.68 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 235.36 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.01%

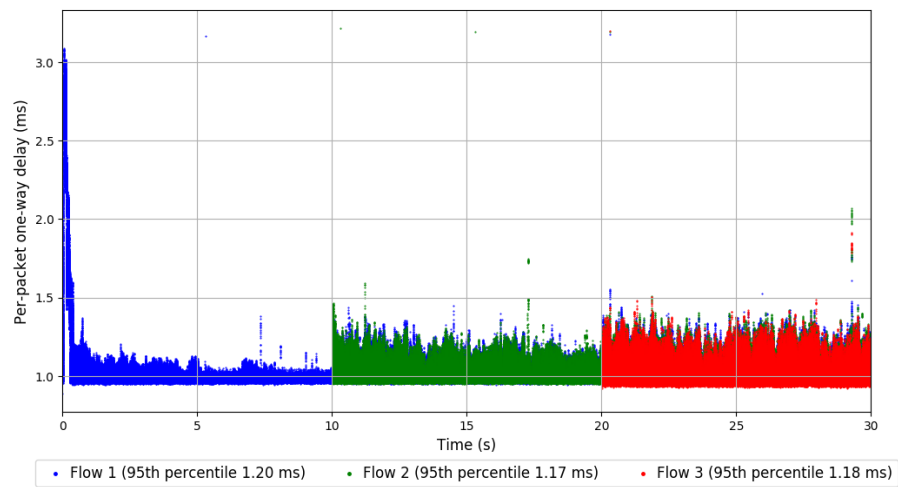
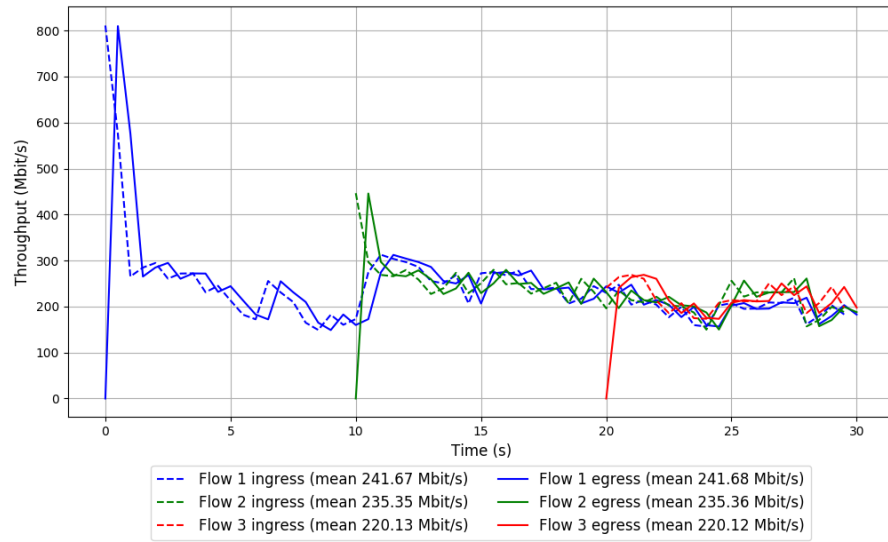
-- Flow 3:

Average throughput: 220.12 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.01%

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-09-25 19:00:10

End at: 2018-09-25 19:00:40

Local clock offset: 0.474 ms

Remote clock offset: 3.491 ms

# Below is generated by plot.py at 2018-09-25 20:11:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 505.54 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 246.48 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 253.11 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.01%

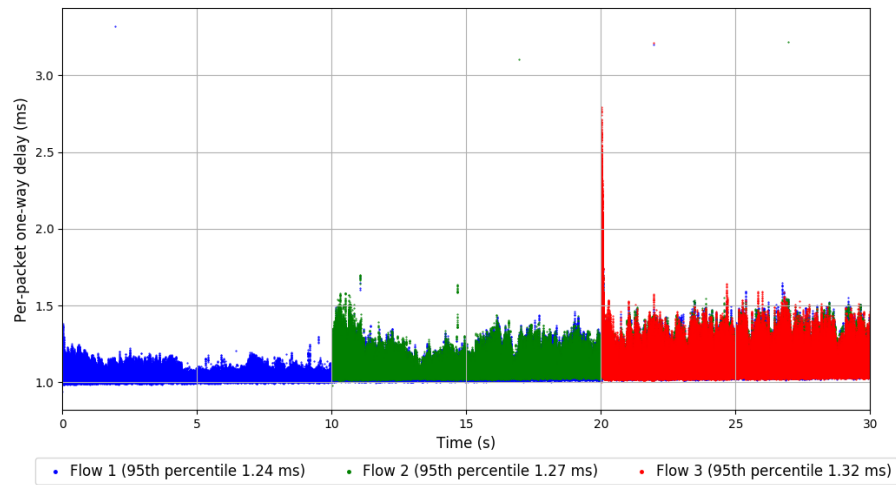
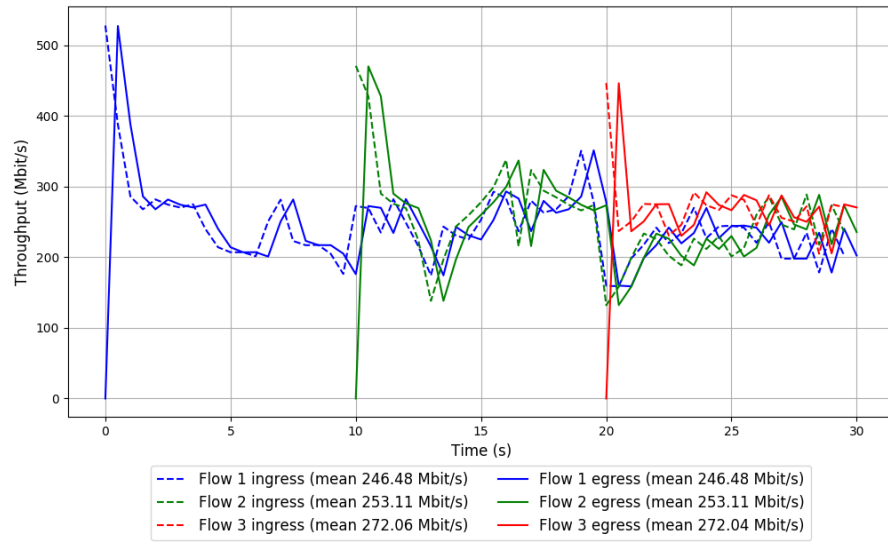
-- Flow 3:

Average throughput: 272.04 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.02%

## Run 5: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2018-09-25 16:40:39

End at: 2018-09-25 16:41:09

Local clock offset: 1.546 ms

Remote clock offset: 2.404 ms

# Below is generated by plot.py at 2018-09-25 20:11:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 256.35 Mbit/s

95th percentile per-packet one-way delay: 2.333 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 162.45 Mbit/s

95th percentile per-packet one-way delay: 2.490 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 105.27 Mbit/s

95th percentile per-packet one-way delay: 1.725 ms

Loss rate: 0.03%

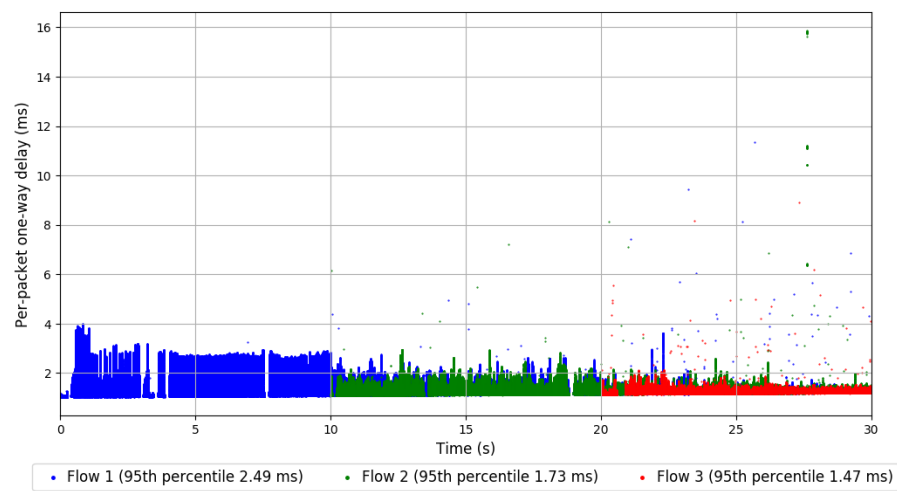
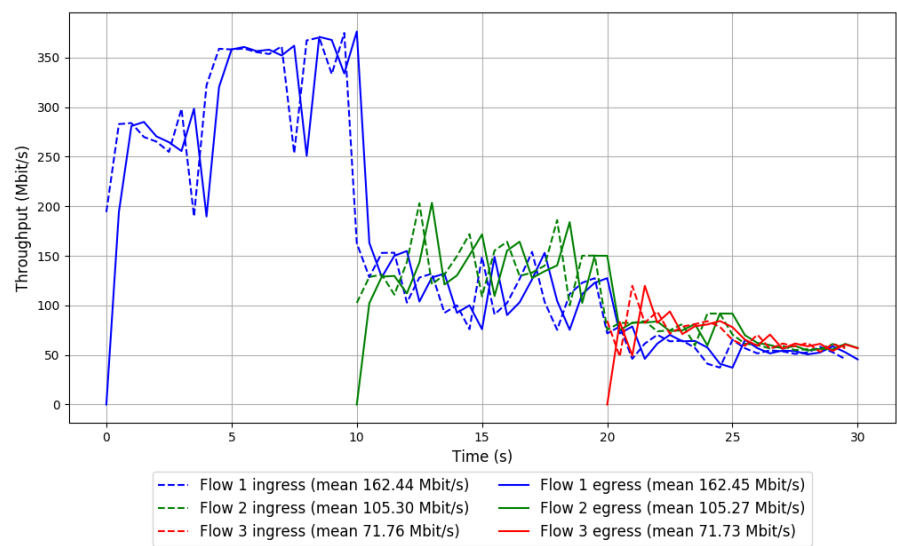
-- Flow 3:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 1.465 ms

Loss rate: 0.03%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-09-25 17:10:05

End at: 2018-09-25 17:10:35

Local clock offset: 0.978 ms

Remote clock offset: 1.334 ms

# Below is generated by plot.py at 2018-09-25 20:11:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 290.74 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 180.91 Mbit/s

95th percentile per-packet one-way delay: 2.417 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.06 Mbit/s

95th percentile per-packet one-way delay: 1.717 ms

Loss rate: 0.01%

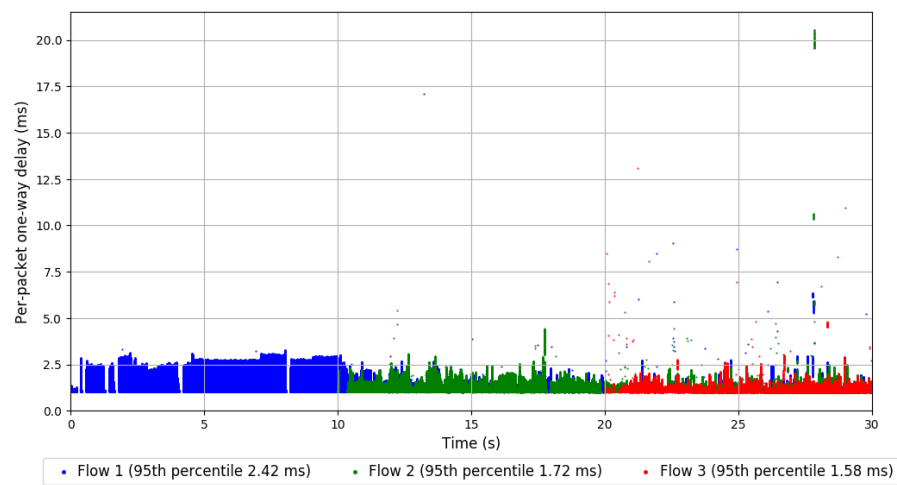
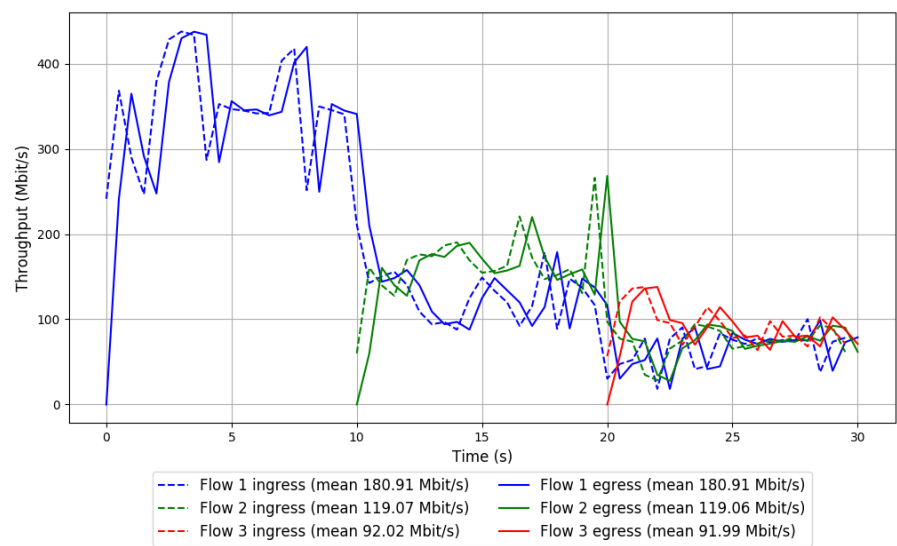
-- Flow 3:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 1.583 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-09-25 17:39:41

End at: 2018-09-25 17:40:11

Local clock offset: 0.071 ms

Remote clock offset: 0.28 ms

# Below is generated by plot.py at 2018-09-25 20:11:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 273.57 Mbit/s

95th percentile per-packet one-way delay: 1.783 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.80 Mbit/s

95th percentile per-packet one-way delay: 1.902 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.66 Mbit/s

95th percentile per-packet one-way delay: 1.437 ms

Loss rate: 0.00%

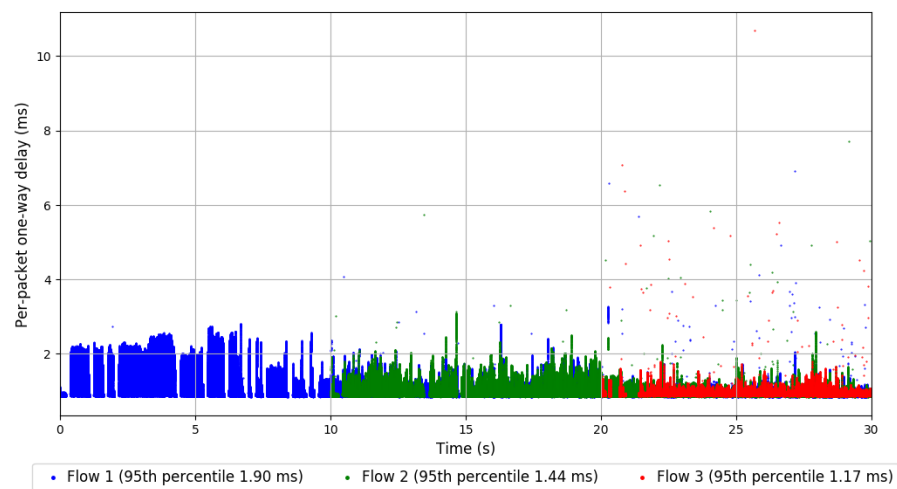
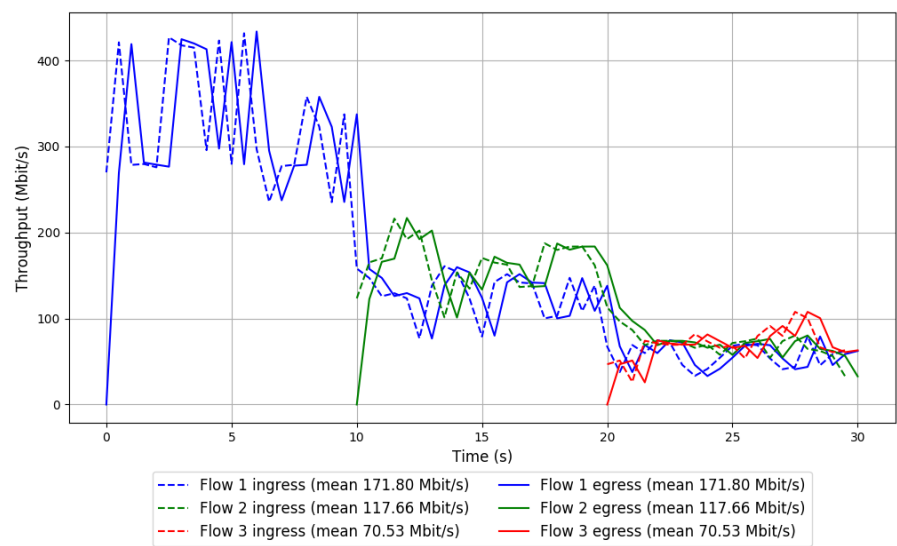
-- Flow 3:

Average throughput: 70.53 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-09-25 18:09:06

End at: 2018-09-25 18:09:36

Local clock offset: 1.032 ms

Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-09-25 20:11:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 276.43 Mbit/s

95th percentile per-packet one-way delay: 2.235 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 178.24 Mbit/s

95th percentile per-packet one-way delay: 2.396 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 111.54 Mbit/s

95th percentile per-packet one-way delay: 1.904 ms

Loss rate: 0.00%

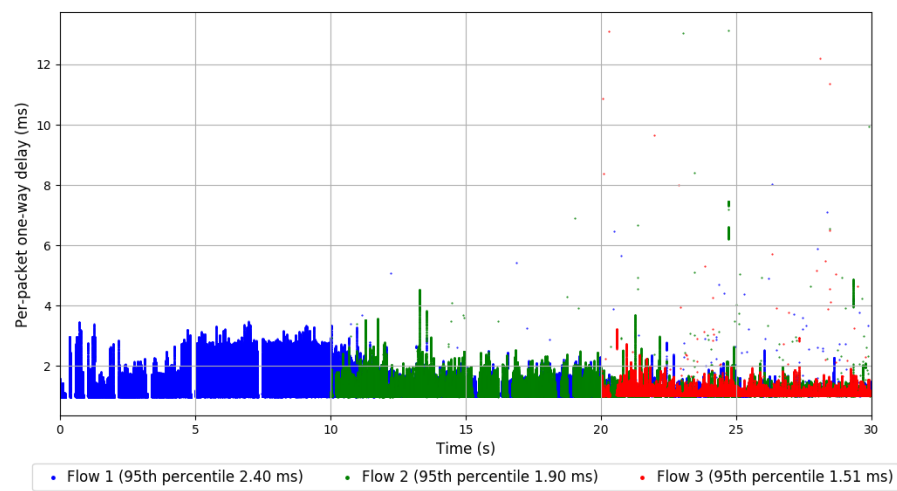
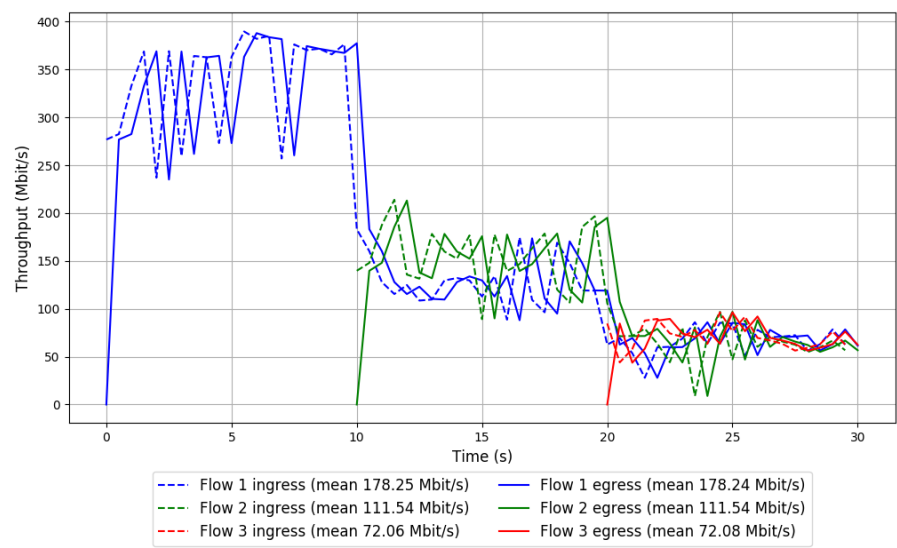
-- Flow 3:

Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 1.515 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link





Run 5: Statistics of Verus

Start at: 2018-09-25 18:38:40

End at: 2018-09-25 18:39:10

Local clock offset: 0.449 ms

Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-09-25 20:12:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 282.31 Mbit/s

95th percentile per-packet one-way delay: 2.436 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 189.97 Mbit/s

95th percentile per-packet one-way delay: 2.507 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.35 Mbit/s

95th percentile per-packet one-way delay: 2.239 ms

Loss rate: 0.00%

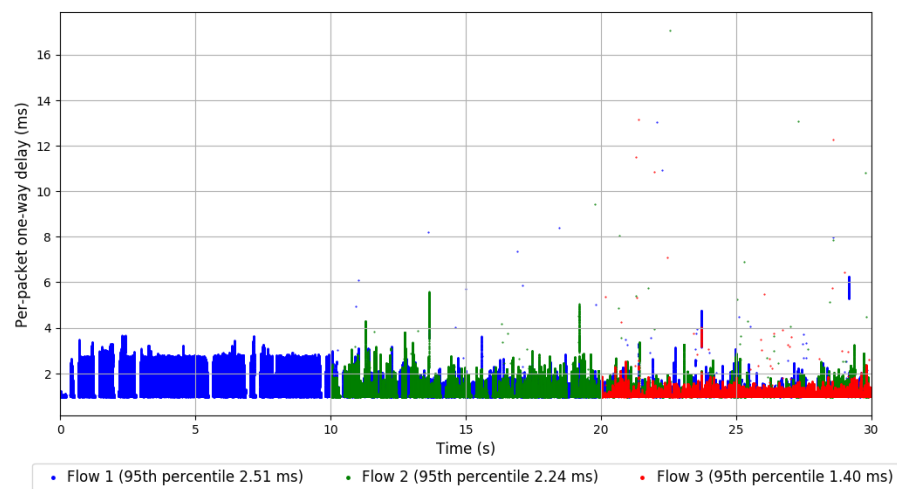
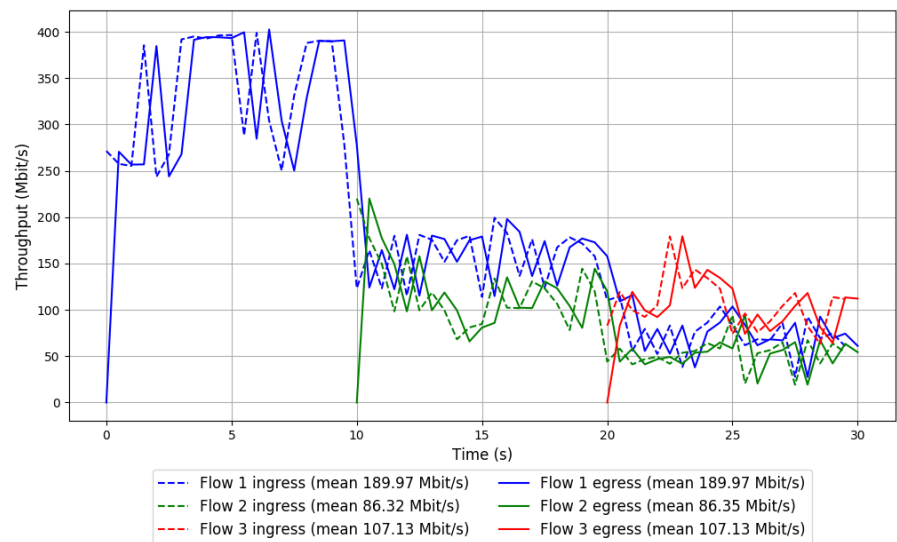
-- Flow 3:

Average throughput: 107.13 Mbit/s

95th percentile per-packet one-way delay: 1.400 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-09-25 16:45:02

End at: 2018-09-25 16:45:32

Local clock offset: 1.151 ms

Remote clock offset: 3.181 ms

# Below is generated by plot.py at 2018-09-25 20:12:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 227.31 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 145.80 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.72 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.01%

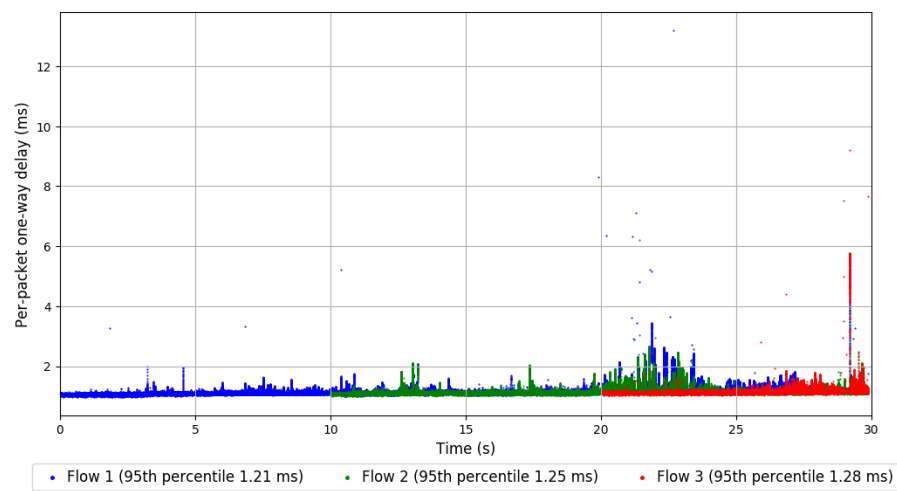
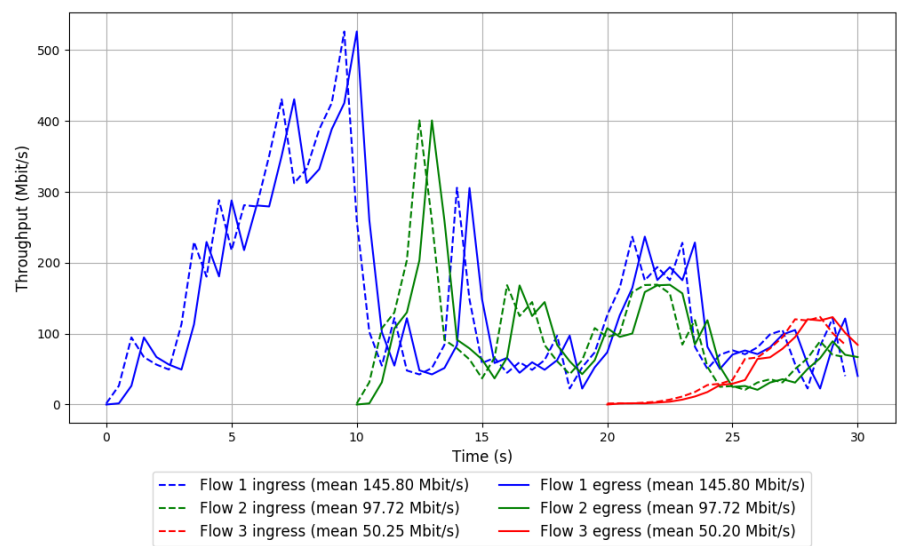
-- Flow 3:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.04%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-09-25 17:14:31

End at: 2018-09-25 17:15:01

Local clock offset: 0.637 ms

Remote clock offset: 0.977 ms

# Below is generated by plot.py at 2018-09-25 20:12:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 241.60 Mbit/s

95th percentile per-packet one-way delay: 0.971 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 147.46 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.57 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.00%

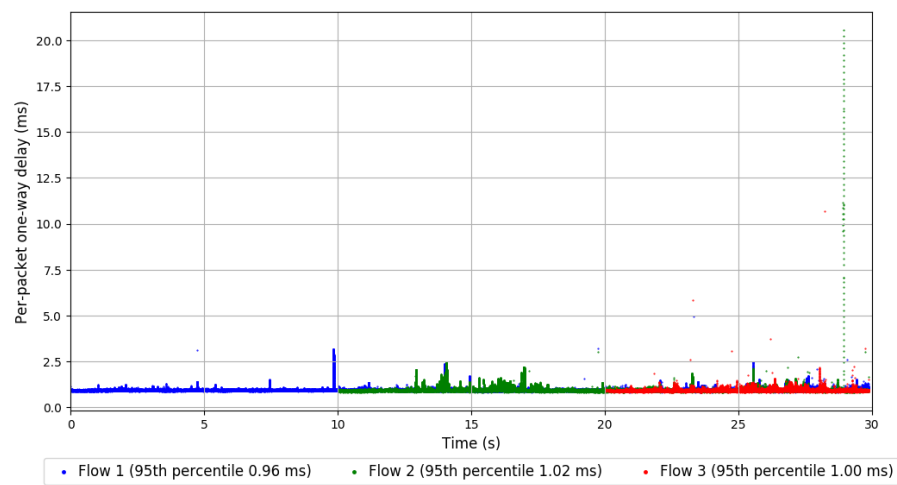
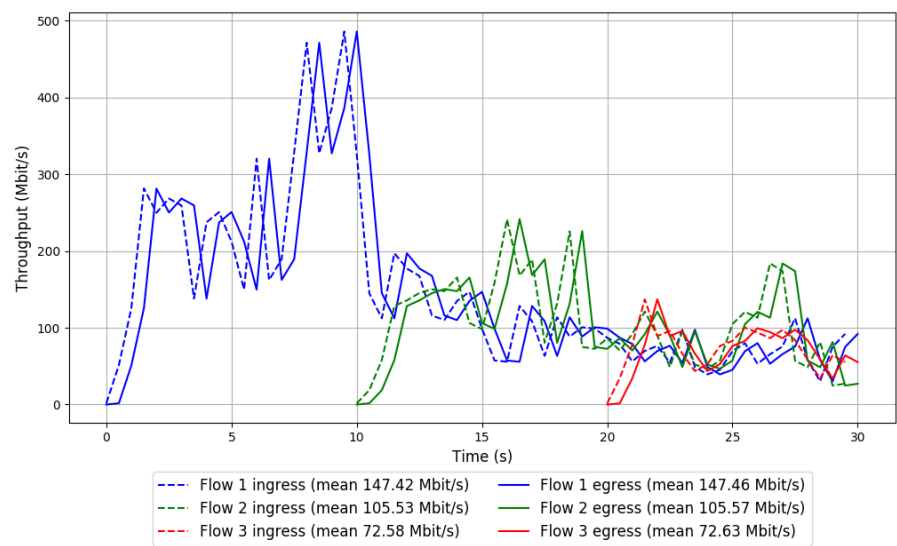
-- Flow 3:

Average throughput: 72.63 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-09-25 17:44:03

End at: 2018-09-25 17:44:33

Local clock offset: 0.213 ms

Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-09-25 20:12:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 261.07 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.14 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.42 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.00%

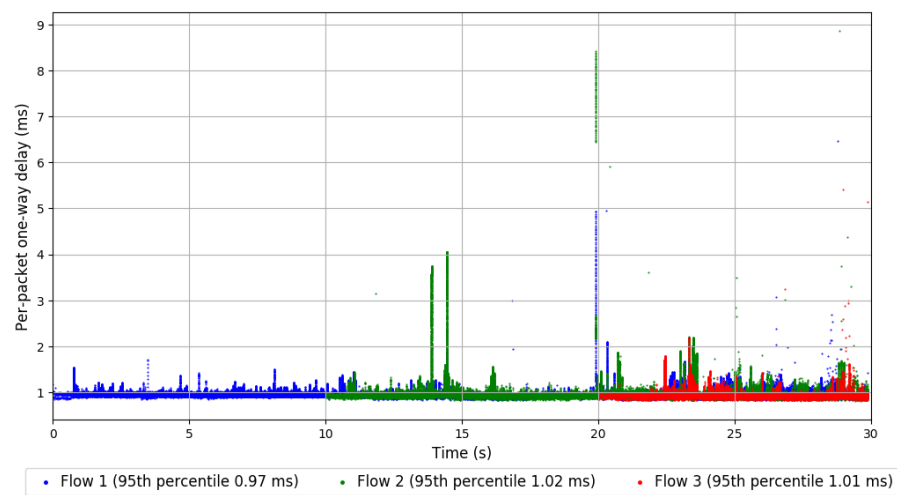
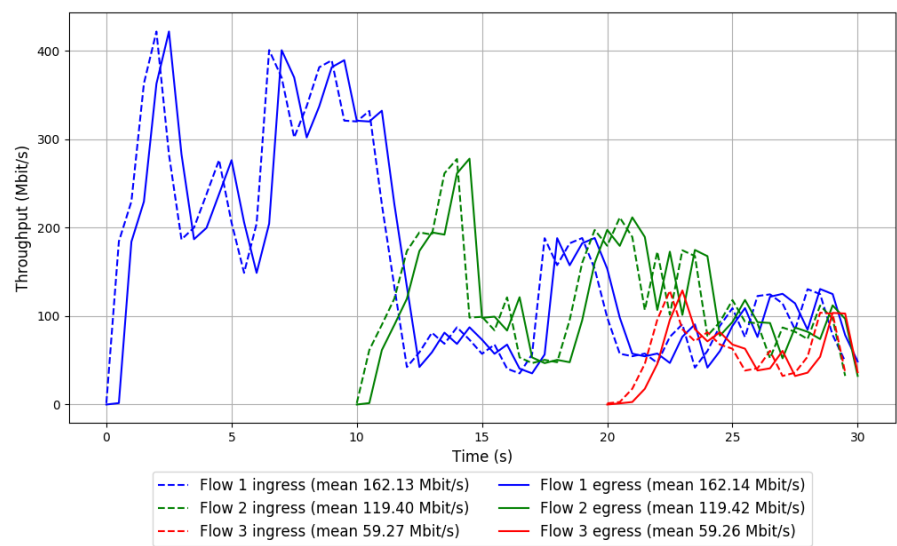
-- Flow 3:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link





Run 4: Statistics of PCC-Vivace

Start at: 2018-09-25 18:13:32

End at: 2018-09-25 18:14:02

Local clock offset: 0.744 ms

Remote clock offset: 0.122 ms

# Below is generated by plot.py at 2018-09-25 20:12:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 219.26 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 159.37 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.84 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.01%

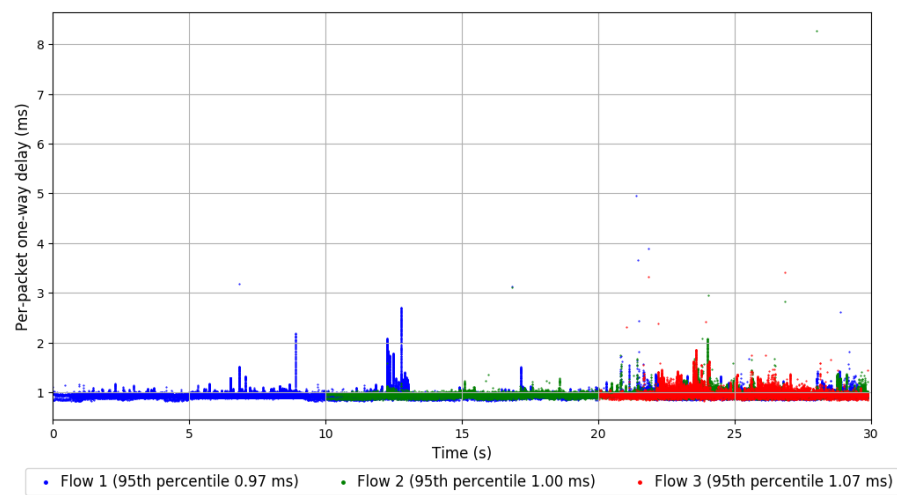
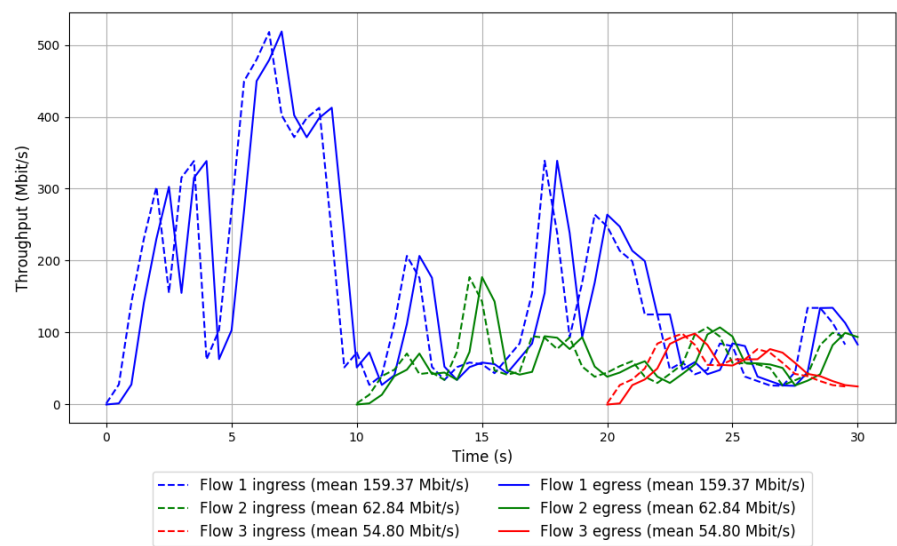
-- Flow 3:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-09-25 18:43:04

End at: 2018-09-25 18:43:34

Local clock offset: 0.425 ms

Remote clock offset: 0.747 ms

# Below is generated by plot.py at 2018-09-25 20:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 249.79 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.53 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.40 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.00%

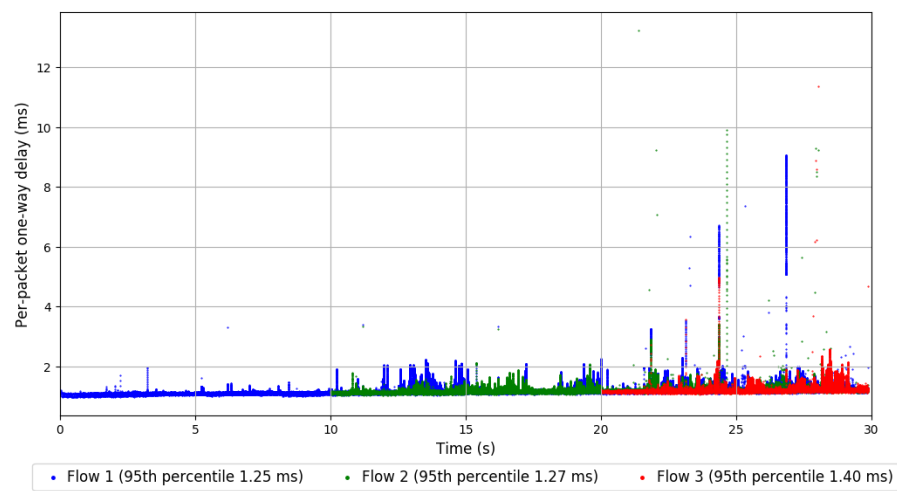
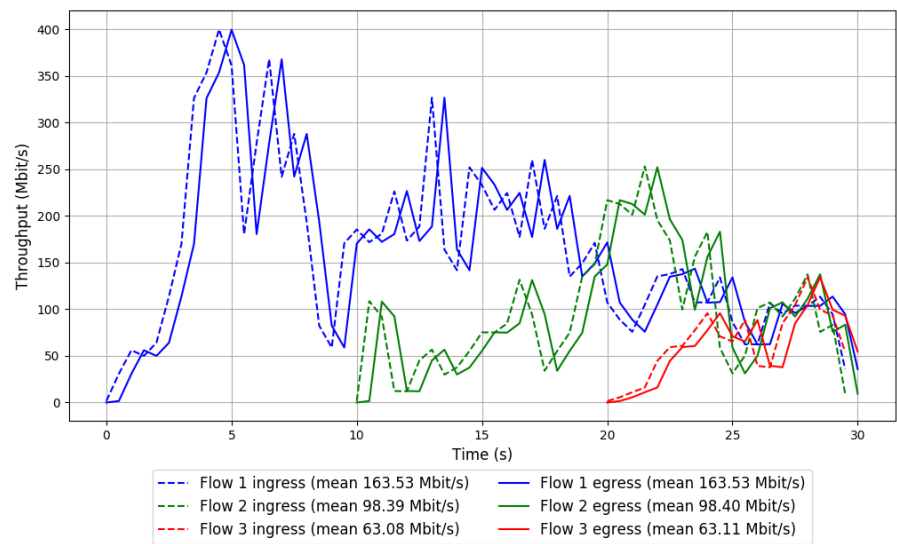
-- Flow 3:

Average throughput: 63.11 Mbit/s

95th percentile per-packet one-way delay: 1.395 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-09-25 17:00:44

End at: 2018-09-25 17:01:14

Local clock offset: 0.945 ms

Remote clock offset: 3.914 ms

# Below is generated by plot.py at 2018-09-25 20:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 0.845 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 0.861 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 0.816 ms

Loss rate: 0.00%

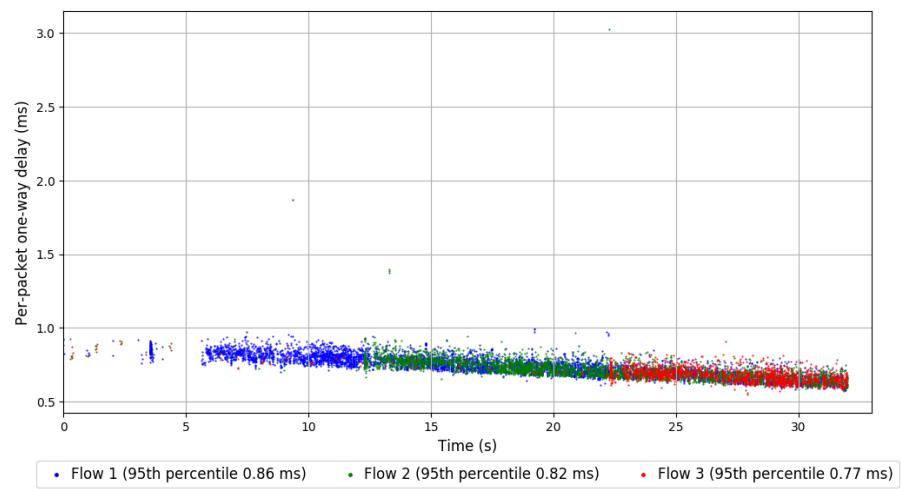
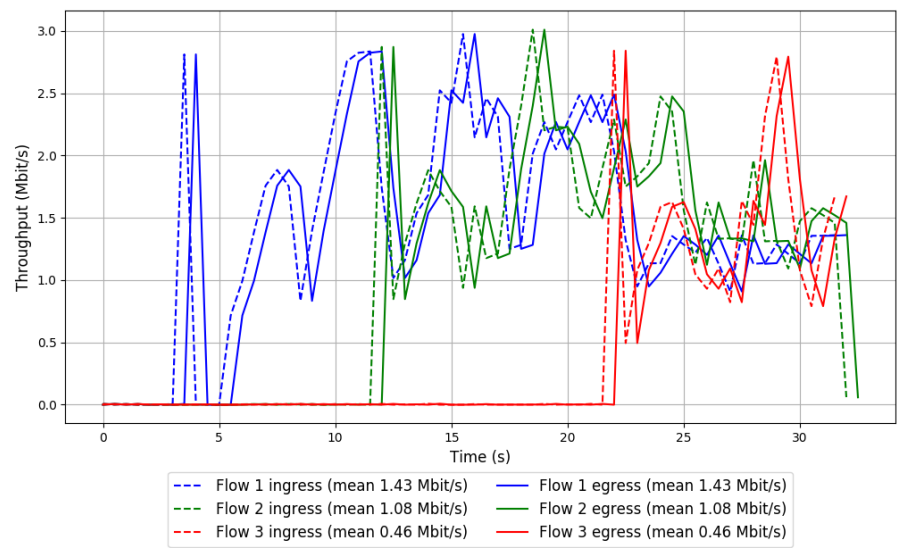
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 0.767 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-09-25 17:30:22

End at: 2018-09-25 17:30:52

Local clock offset: 0.18 ms

Remote clock offset: 0.627 ms

# Below is generated by plot.py at 2018-09-25 20:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.00%

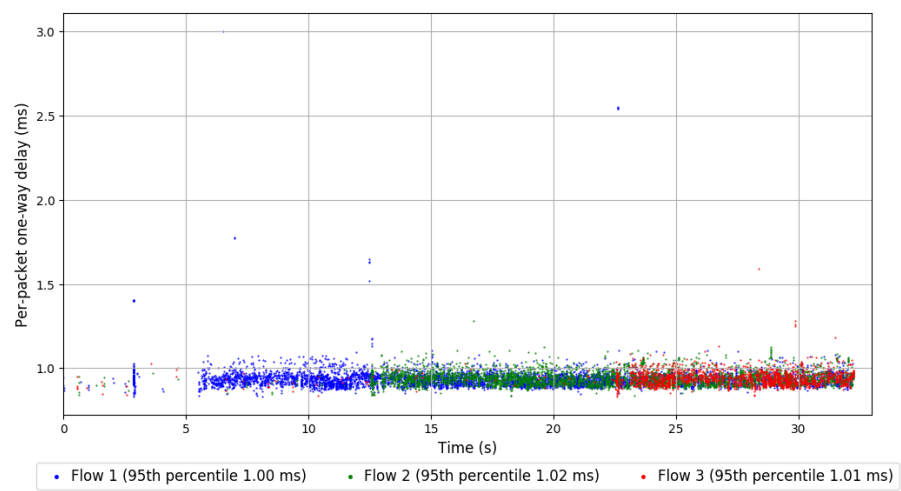
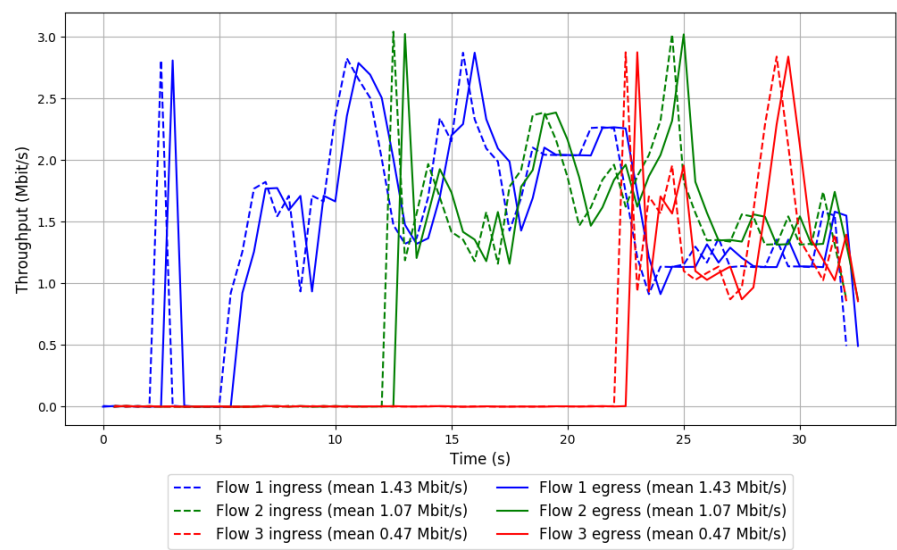
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link





Run 3: Statistics of WebRTC media

Start at: 2018-09-25 17:59:54

End at: 2018-09-25 18:00:24

Local clock offset: 0.79 ms

Remote clock offset: 0.199 ms

# Below is generated by plot.py at 2018-09-25 20:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 0.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

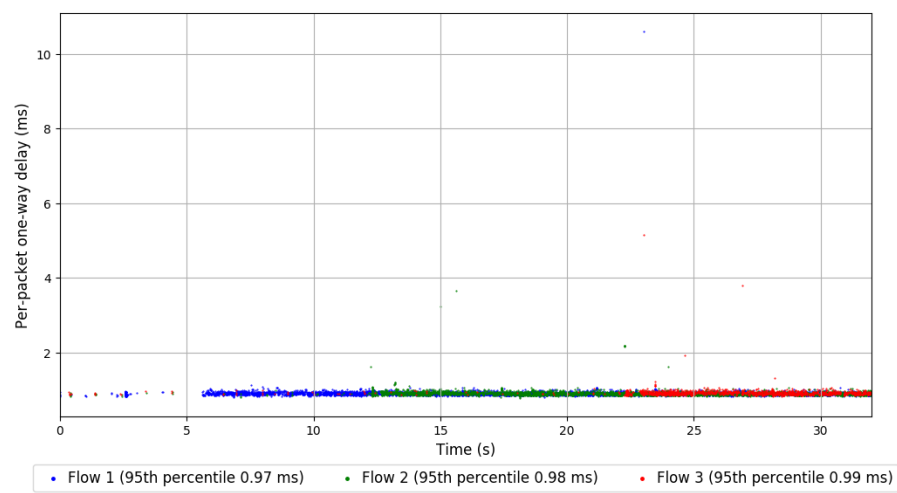
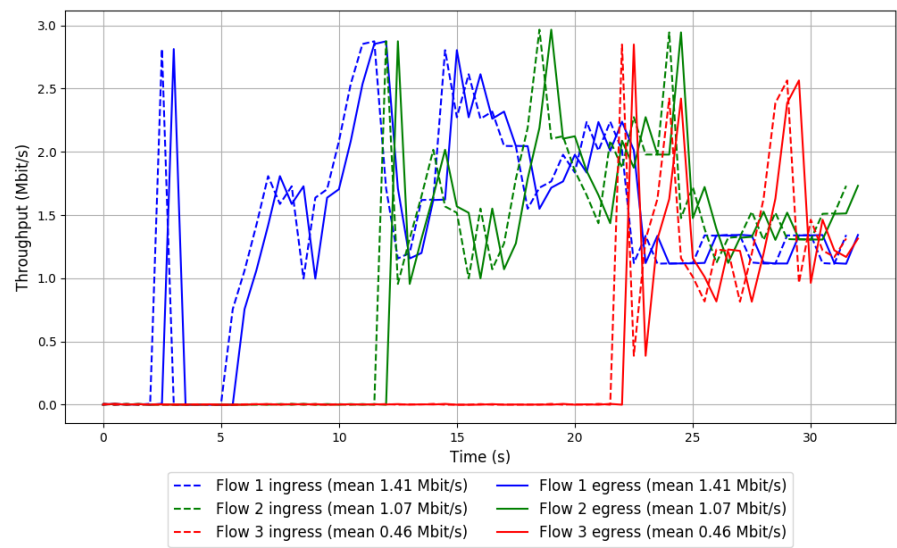
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-09-25 18:29:18

End at: 2018-09-25 18:29:48

Local clock offset: 0.4 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-09-25 20:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 1.056 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.00%

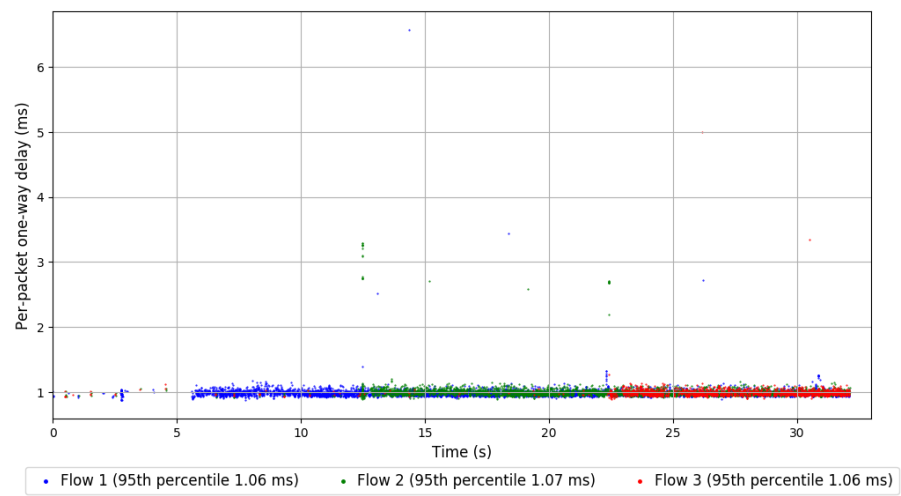
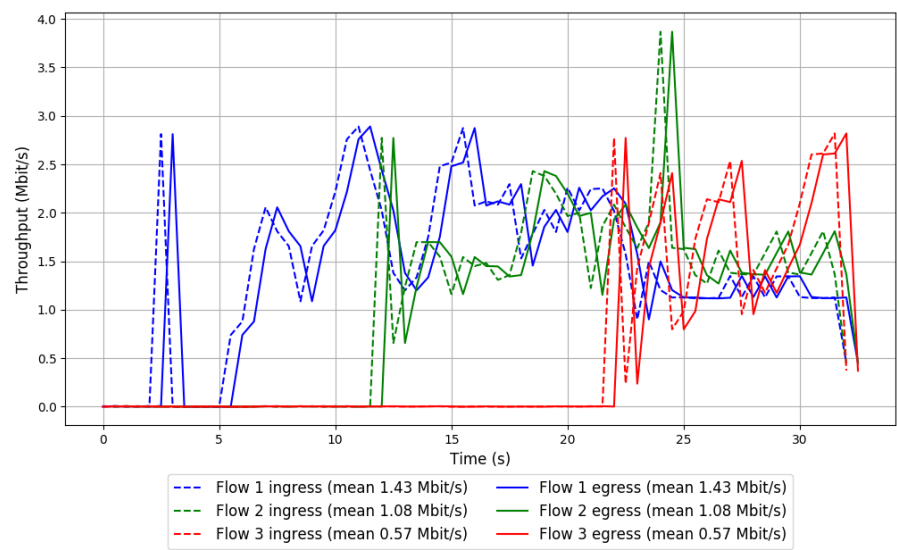
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-25 18:58:51

End at: 2018-09-25 18:59:21

Local clock offset: 0.446 ms

Remote clock offset: 3.477 ms

# Below is generated by plot.py at 2018-09-25 20:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.00%

## Run 5: Report of WebRTC media — Data Link

