

Pantheon Report

Generated at 2018-09-25 18:40:16 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 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 **gps.ntp.br** and have been applied to correct the timestamps in logs.

System info:

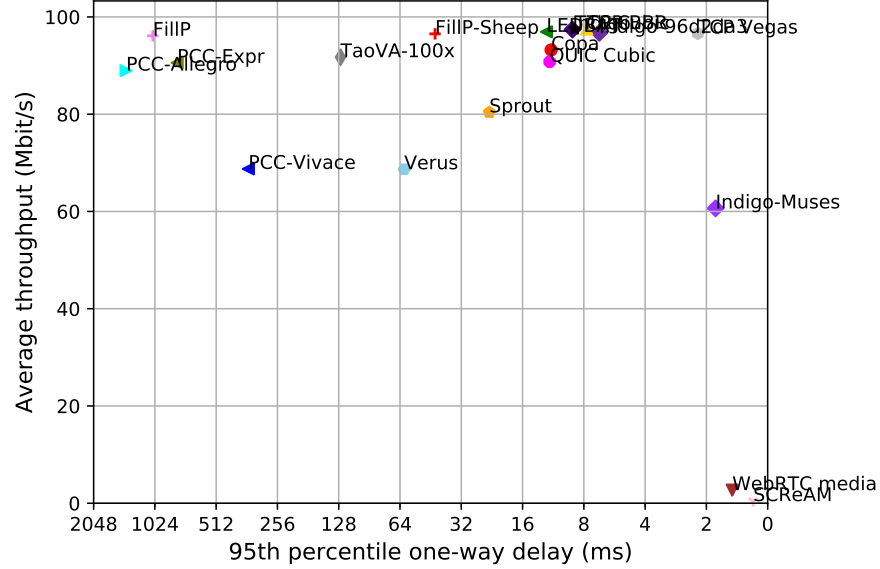
```
Linux 4.15.0-1021-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
net.ipv4.tcp_mem = 184101 245469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

Git summary:

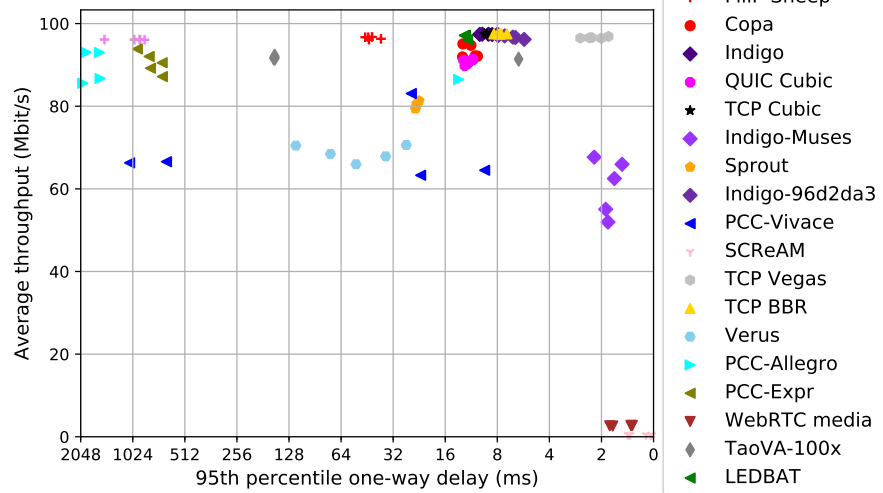
```
branch: muses @ 90192f6b64ce1a1191dcca0e9ff9ee24950674d7
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ cbfce6db5ff5740d4fe1771f813cd646339e1952
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 Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



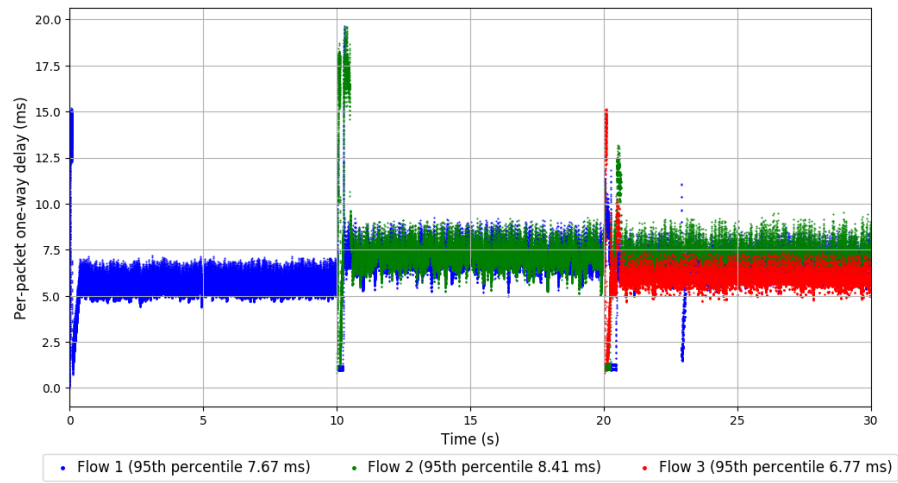
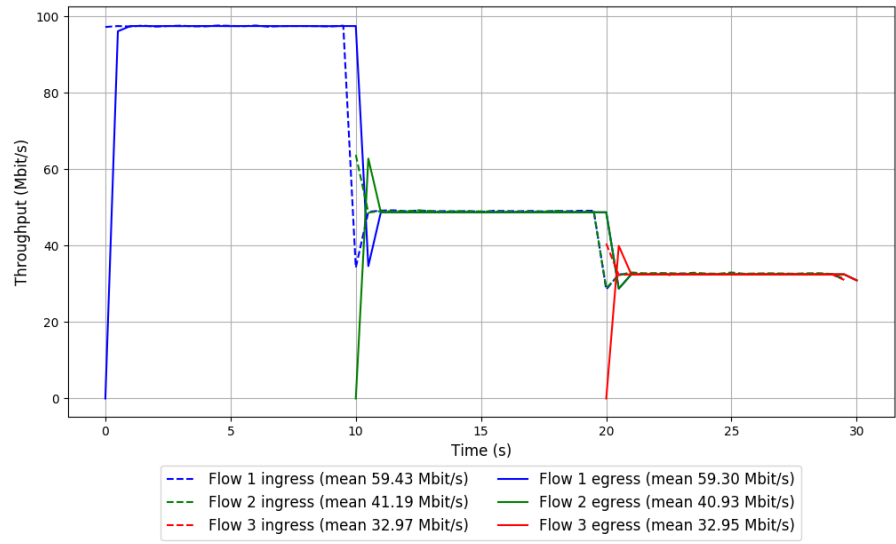
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	59.32	40.94	32.87	7.48	7.44	7.92	0.12	0.16	0.41
Copa	5	56.10	39.79	31.93	10.54	12.35	13.05	0.05	0.09	0.15
TCP Cubic	5	59.62	40.64	32.50	8.84	8.74	9.10	0.09	0.16	0.27
FillP	5	59.55	39.59	30.85	969.00	717.18	576.78	5.51	6.42	9.07
FillP-Sheep	5	59.04	40.25	32.31	34.22	47.02	57.24	1.39	1.48	1.12
Indigo	5	59.68	40.65	32.48	8.89	9.20	8.08	0.41	1.02	0.24
Indigo-96d2da3	5	59.11	41.23	30.71	6.17	7.23	10.02	0.01	0.03	0.08
LEDBAT	5	59.31	40.66	31.72	11.85	12.37	12.20	0.15	0.26	0.41
Indigo-Muses	5	32.23	27.58	30.32	1.59	1.72	1.88	0.01	0.02	0.03
PCC-Allegro	5	62.96	28.07	22.30	1611.87	318.07	19.03	5.67	4.82	0.22
PCC-Expr	5	65.68	25.92	23.16	808.34	170.45	35.75	26.57	1.04	0.08
QUIC Cubic	5	53.78	40.14	31.12	11.41	11.71	12.34	0.19	0.37	0.51
SCReAM	5	0.22	0.22	0.22	0.47	0.51	0.47	0.00	0.00	0.07
Sprout	5	43.19	39.92	32.21	21.94	23.31	24.69	0.47	0.56	1.67
TaoVA-100x	5	53.16	40.49	34.92	124.30	125.28	126.35	0.43	0.87	2.19
TCP Vegas	5	51.07	46.69	43.43	1.74	2.16	2.63	0.01	0.02	0.03
Verus	5	36.92	33.18	29.08	35.94	35.06	221.03	0.07	0.09	0.13
PCC-Vivace	5	37.20	34.97	25.11	26.81	495.71	33.64	0.06	3.70	0.57
WebRTC media	5	1.52	0.82	0.36	1.12	1.18	1.24	0.00	0.00	0.02

Run 1: Statistics of TCP BBR

Start at: 2018-09-25 16:36:44
End at: 2018-09-25 16:37:14
Local clock offset: -7.026 ms
Remote clock offset: -0.766 ms

Below is generated by plot.py at 2018-09-25 18:27:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 7.934 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 7.669 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 8.414 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 6.774 ms
Loss rate: 0.08%

Run 1: Report of TCP BBR — Data Link

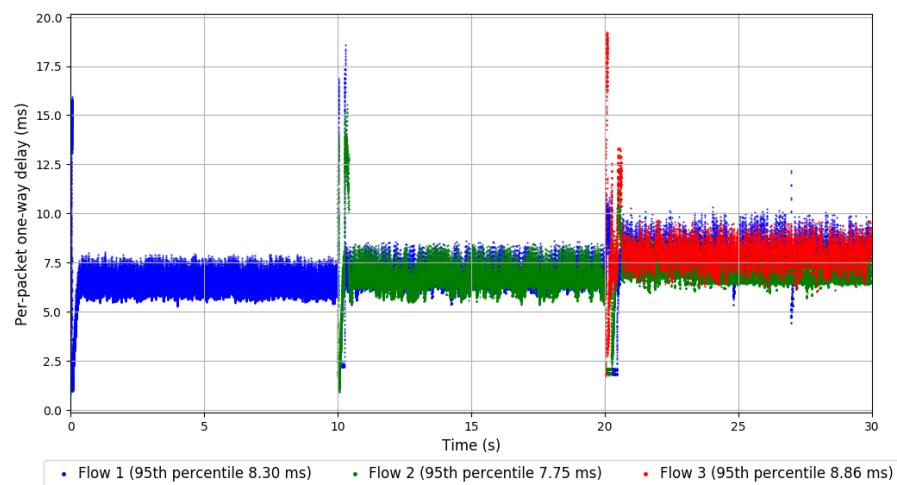
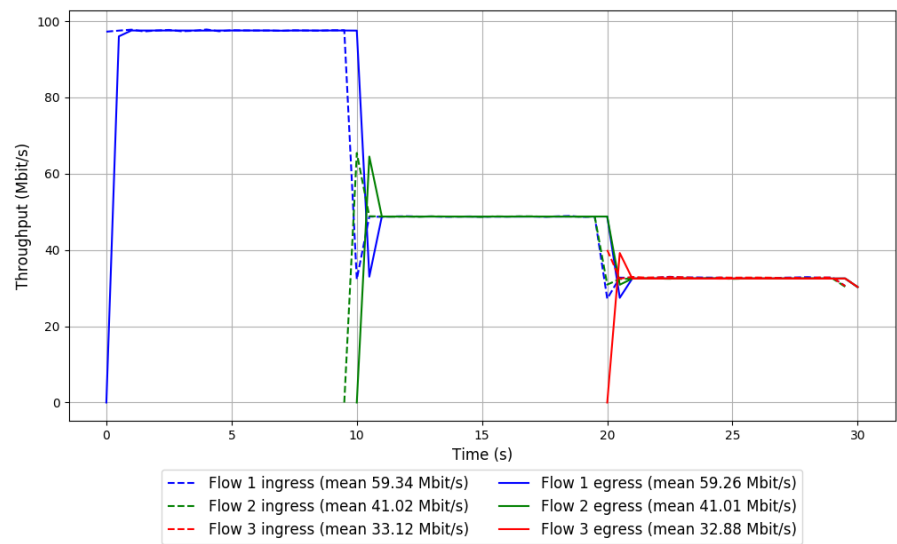


Run 2: Statistics of TCP BBR

Start at: 2018-09-25 16:58:38
End at: 2018-09-25 16:59:08
Local clock offset: -4.447 ms
Remote clock offset: -0.517 ms

Below is generated by plot.py at 2018-09-25 18:27:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 8.371 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 8.303 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 7.748 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 8.862 ms
Loss rate: 0.77%

Run 2: Report of TCP BBR — Data Link

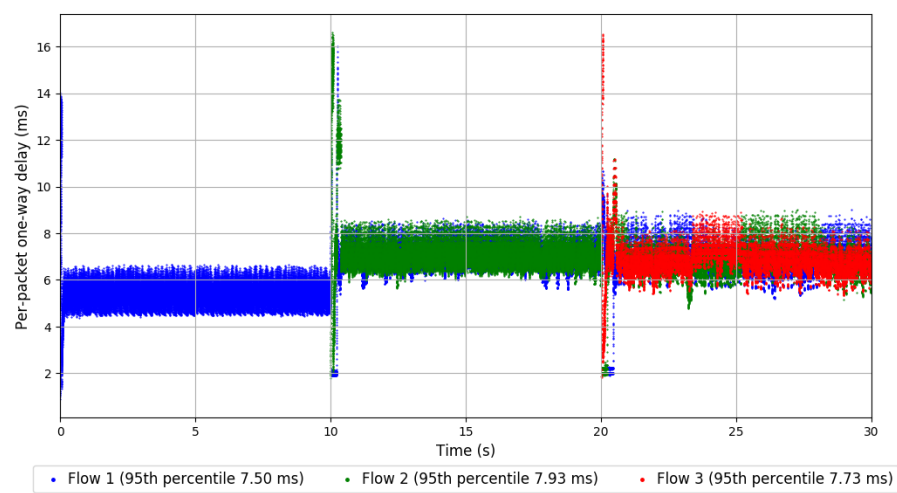
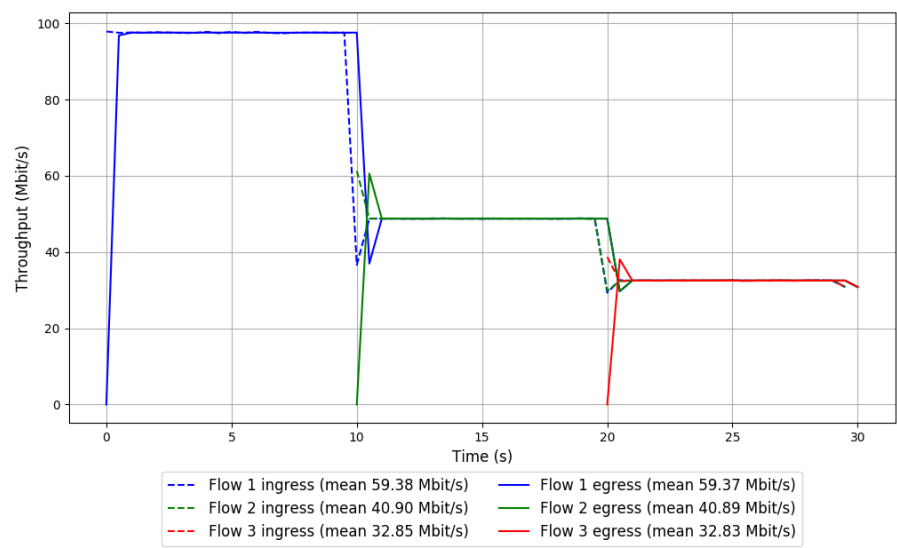


Run 3: Statistics of TCP BBR

Start at: 2018-09-25 17:20:34
End at: 2018-09-25 17:21:04
Local clock offset: -5.46 ms
Remote clock offset: -0.229 ms

Below is generated by plot.py at 2018-09-25 18:27:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 7.619 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 59.37 Mbit/s
95th percentile per-packet one-way delay: 7.498 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.89 Mbit/s
95th percentile per-packet one-way delay: 7.933 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 7.726 ms
Loss rate: 0.10%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-09-25 17:42:28

End at: 2018-09-25 17:42:58

Local clock offset: -6.588 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2018-09-25 18:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 7.738 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.29 Mbit/s

95th percentile per-packet one-way delay: 7.794 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 40.98 Mbit/s

95th percentile per-packet one-way delay: 6.747 ms

Loss rate: 0.03%

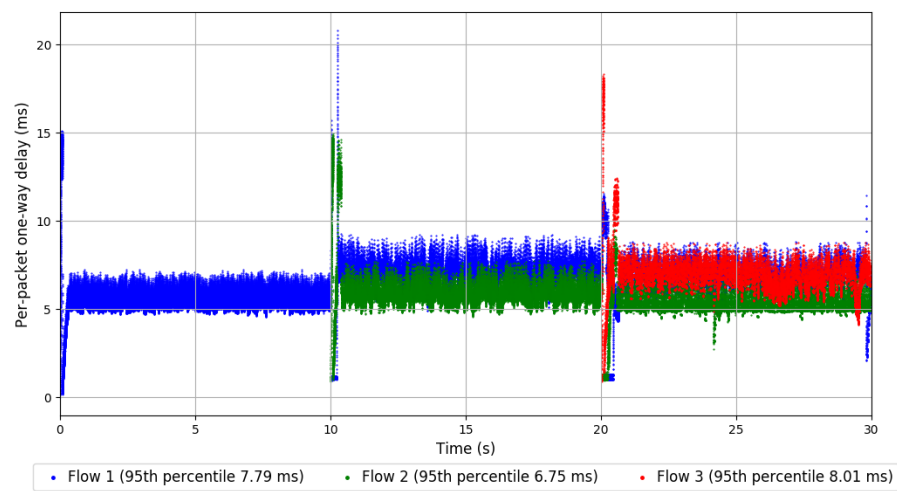
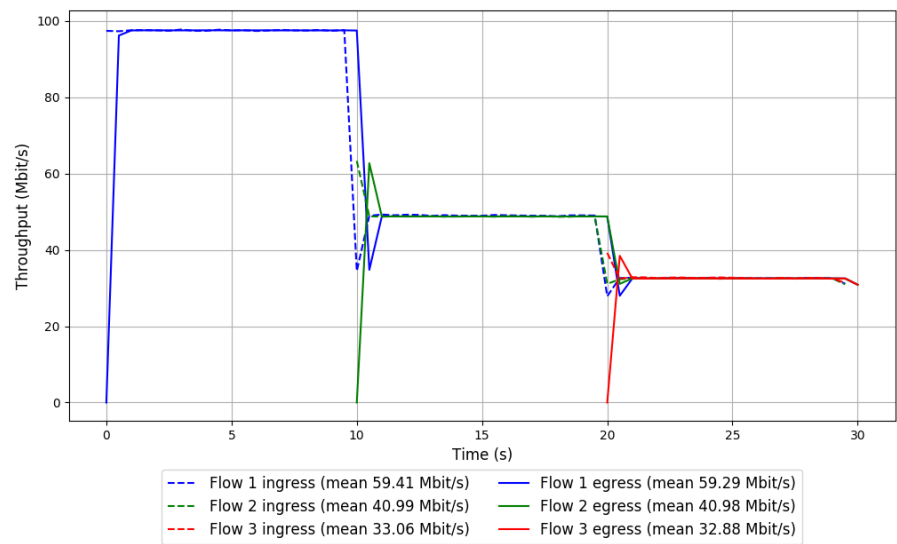
-- Flow 3:

Average throughput: 32.88 Mbit/s

95th percentile per-packet one-way delay: 8.009 ms

Loss rate: 0.58%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-09-25 18:04:23

End at: 2018-09-25 18:04:53

Local clock offset: -6.168 ms

Remote clock offset: 0.365 ms

Below is generated by plot.py at 2018-09-25 18:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 7.036 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 59.37 Mbit/s

95th percentile per-packet one-way delay: 6.150 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.90 Mbit/s

95th percentile per-packet one-way delay: 6.348 ms

Loss rate: 0.03%

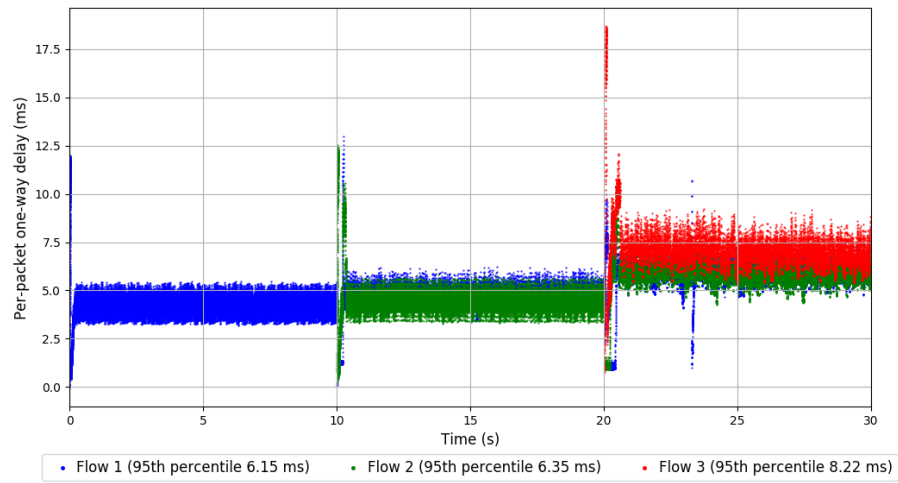
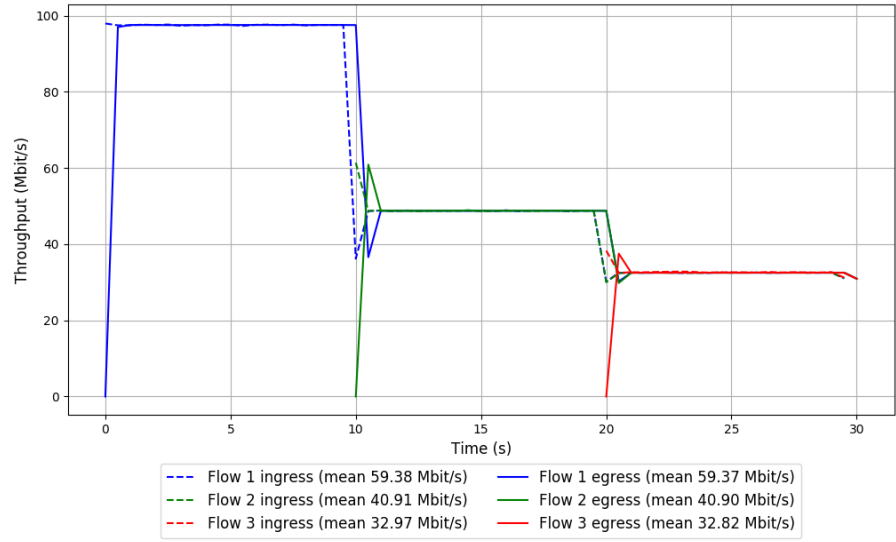
-- Flow 3:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 8.216 ms

Loss rate: 0.50%

Run 5: Report of TCP BBR — Data Link

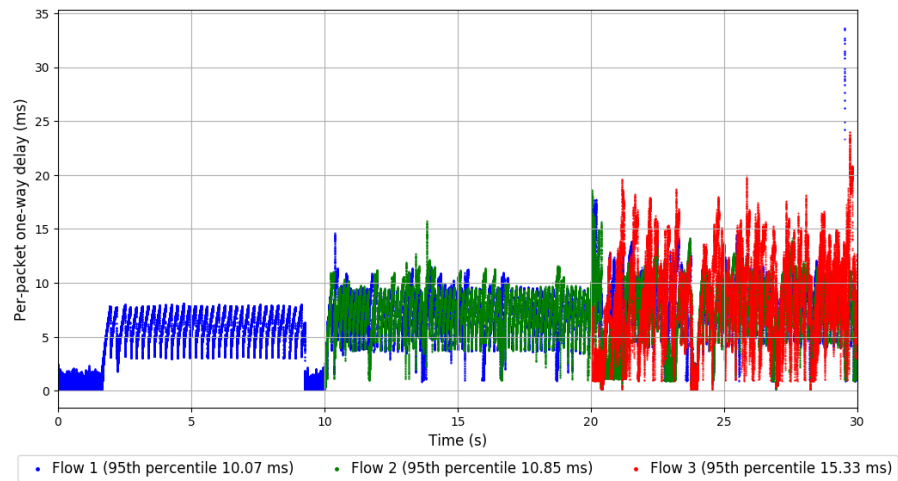
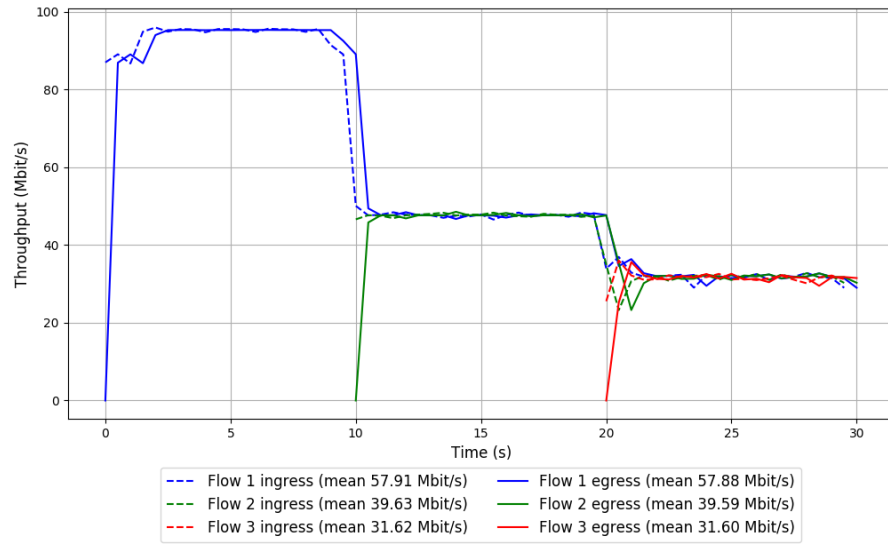


Run 1: Statistics of Copa

Start at: 2018-09-25 16:44:43
End at: 2018-09-25 16:45:13
Local clock offset: -6.153 ms
Remote clock offset: -0.789 ms

Below is generated by plot.py at 2018-09-25 18:28:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 11.373 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 10.073 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 10.846 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 15.331 ms
Loss rate: 0.13%

Run 1: Report of Copa — Data Link

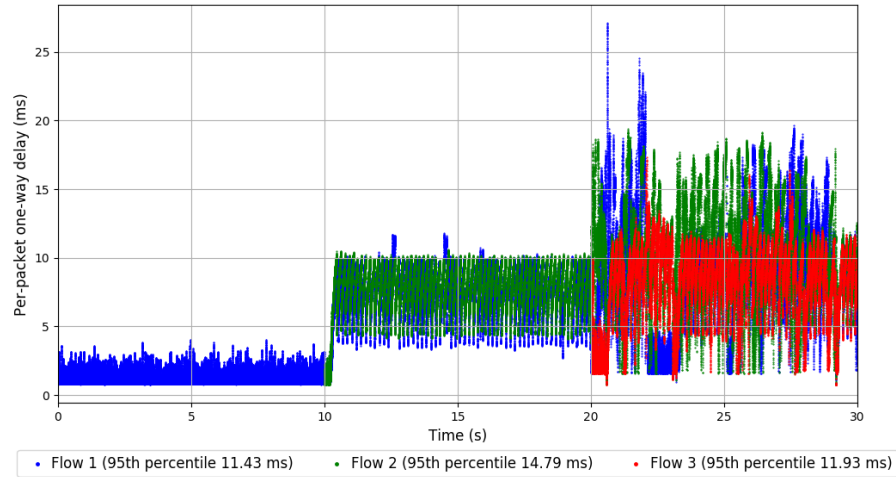
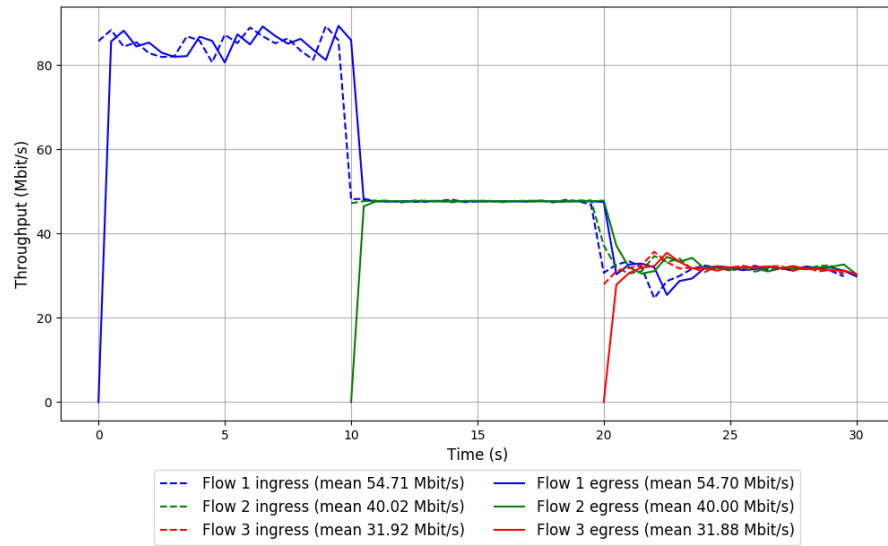


Run 2: Statistics of Copa

Start at: 2018-09-25 17:06:38
End at: 2018-09-25 17:07:08
Local clock offset: -4.216 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-09-25 18:28:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 12.713 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 54.70 Mbit/s
95th percentile per-packet one-way delay: 11.433 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 14.793 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 11.926 ms
Loss rate: 0.17%

Run 2: Report of Copa — Data Link

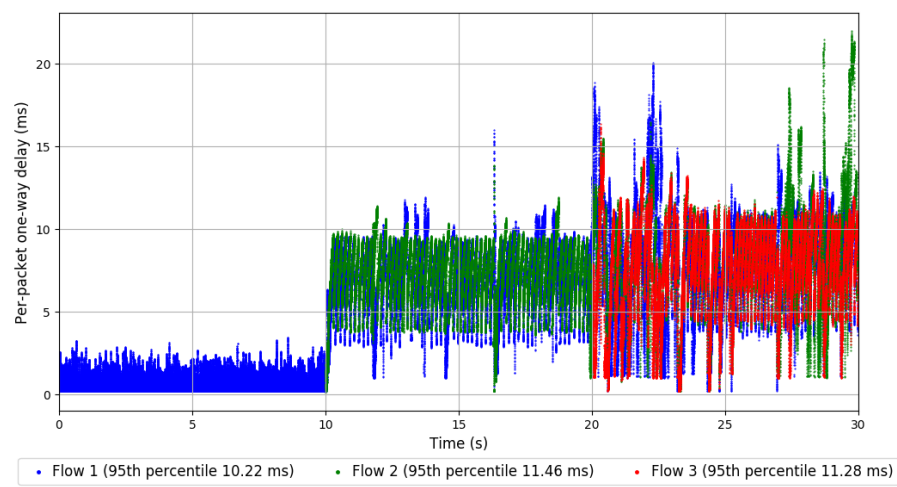
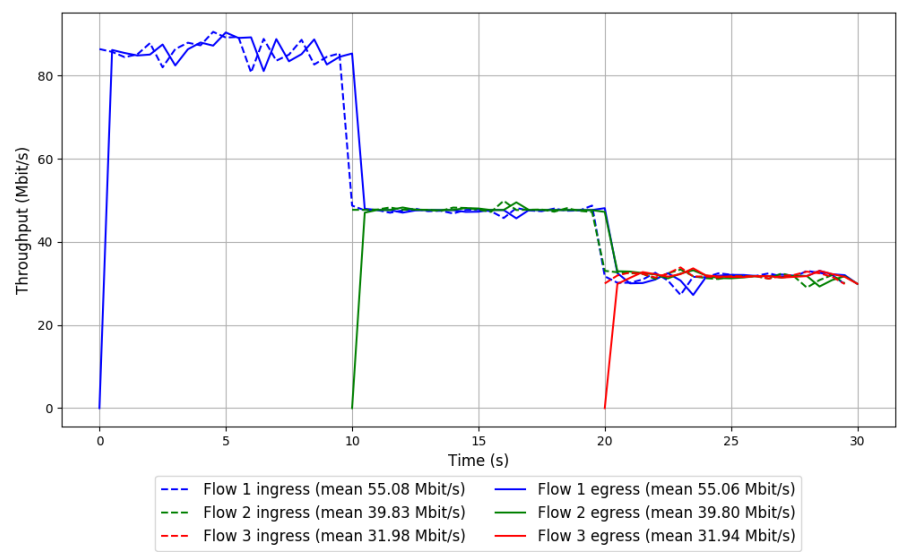


Run 3: Statistics of Copa

Start at: 2018-09-25 17:28:32
End at: 2018-09-25 17:29:02
Local clock offset: -6.616 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-09-25 18:28:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 10.740 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 55.06 Mbit/s
95th percentile per-packet one-way delay: 10.216 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 11.457 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 31.94 Mbit/s
95th percentile per-packet one-way delay: 11.284 ms
Loss rate: 0.13%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-09-25 17:50:28

End at: 2018-09-25 17:50:58

Local clock offset: -6.199 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-09-25 18:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 10.427 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 9.676 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 10.227 ms

Loss rate: 0.11%

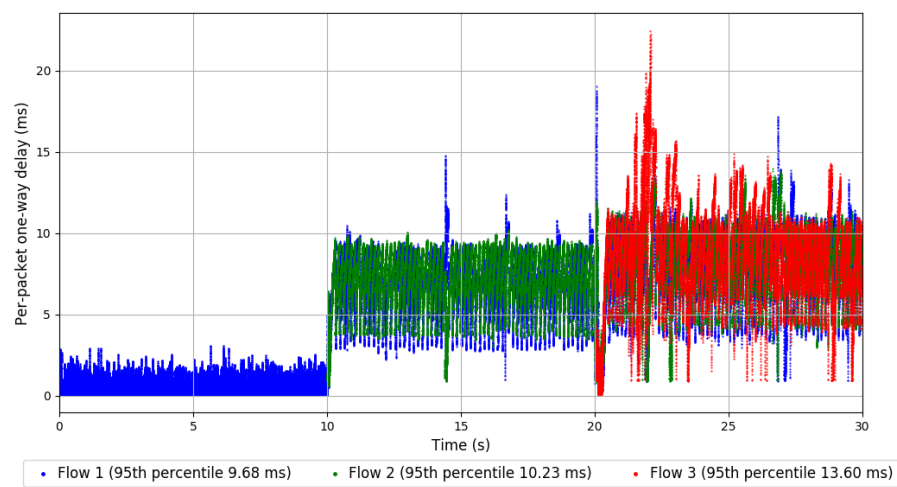
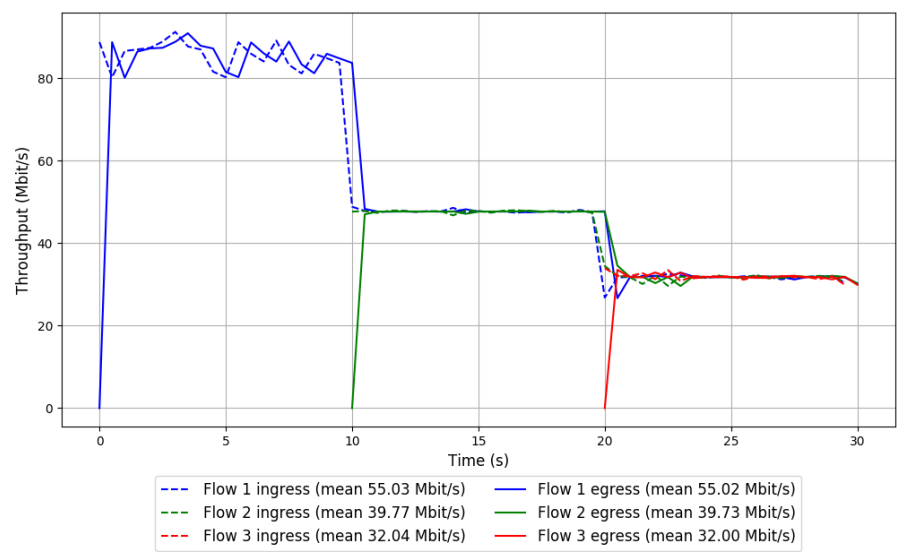
-- Flow 3:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 13.598 ms

Loss rate: 0.15%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-09-25 18:12:23

End at: 2018-09-25 18:12:53

Local clock offset: -5.615 ms

Remote clock offset: 0.424 ms

Below is generated by plot.py at 2018-09-25 18:29:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 12.658 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 11.315 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 14.415 ms

Loss rate: 0.08%

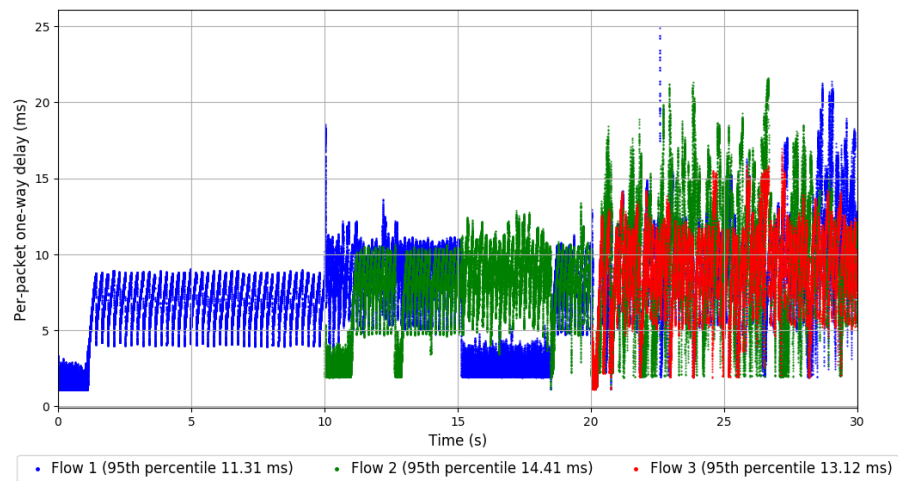
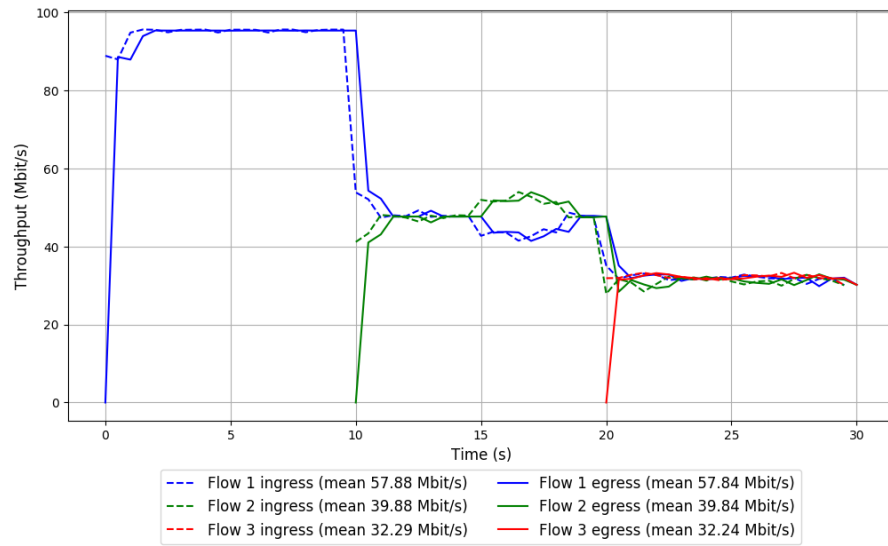
-- Flow 3:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 13.118 ms

Loss rate: 0.18%

Run 5: Report of Copa — Data Link

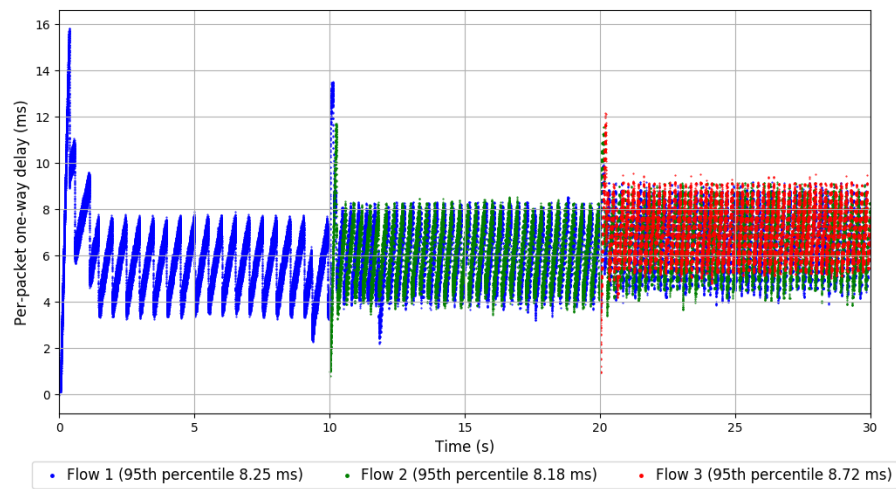
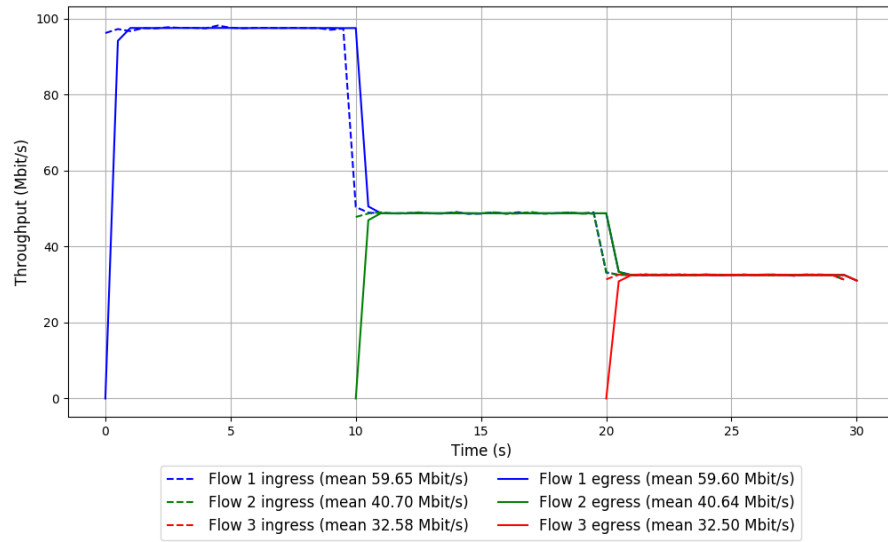


Run 1: Statistics of TCP Cubic

Start at: 2018-09-25 16:48:15
End at: 2018-09-25 16:48:45
Local clock offset: -5.796 ms
Remote clock offset: -0.633 ms

Below is generated by plot.py at 2018-09-25 18:29:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 8.357 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 8.253 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 8.184 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 8.721 ms
Loss rate: 0.28%

Run 1: Report of TCP Cubic — Data Link

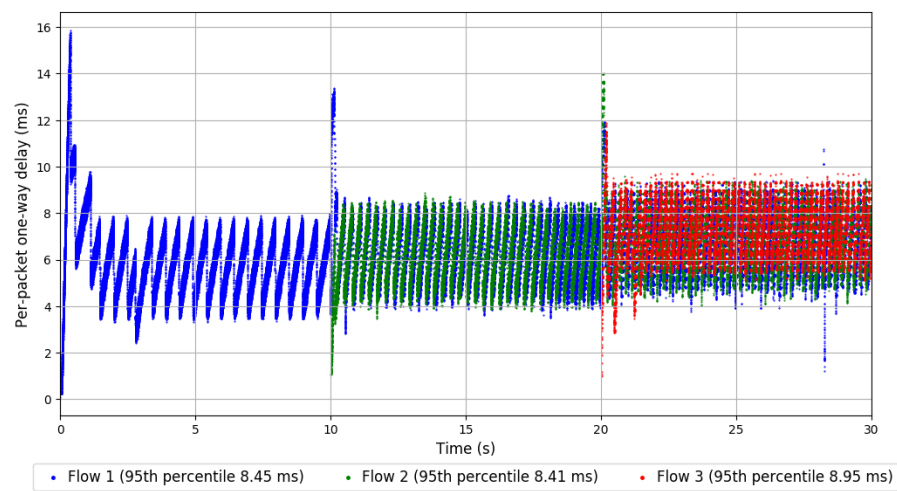
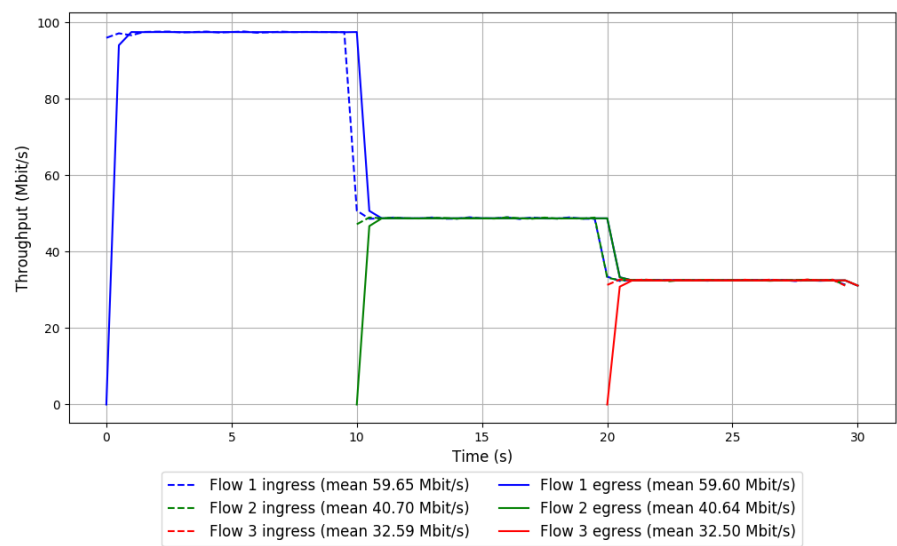


Run 2: Statistics of TCP Cubic

Start at: 2018-09-25 17:10:10
End at: 2018-09-25 17:10:40
Local clock offset: -4.999 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2018-09-25 18:29:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 8.570 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 8.447 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 8.410 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 8.950 ms
Loss rate: 0.29%

Run 2: Report of TCP Cubic — Data Link

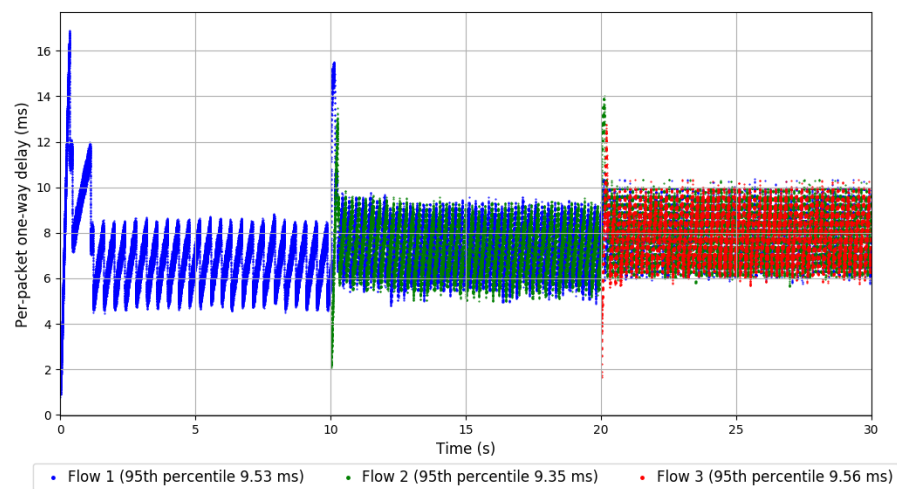
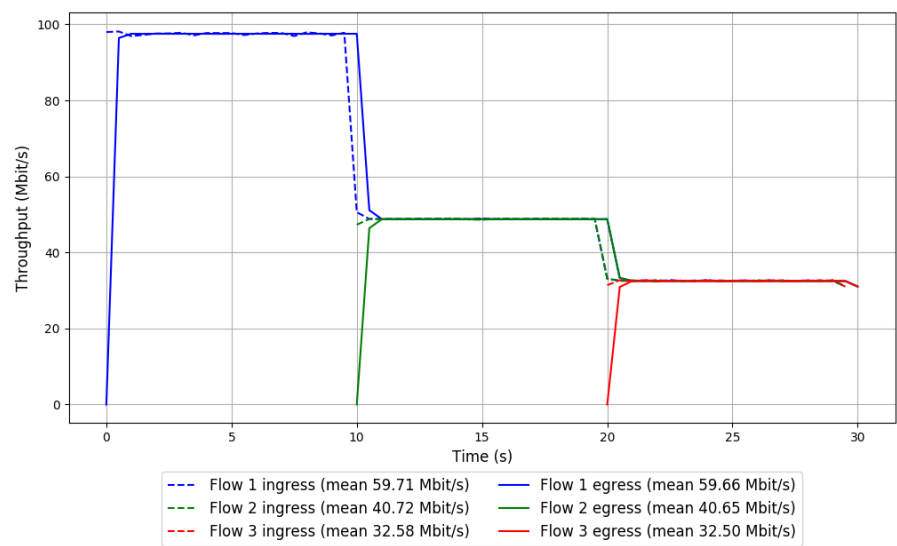


Run 3: Statistics of TCP Cubic

Start at: 2018-09-25 17:32:04
End at: 2018-09-25 17:32:34
Local clock offset: -5.932 ms
Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-09-25 18:29:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 9.484 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 59.66 Mbit/s
95th percentile per-packet one-way delay: 9.532 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 9.346 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 9.565 ms
Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-09-25 17:54:00

End at: 2018-09-25 17:54:30

Local clock offset: -6.115 ms

Remote clock offset: 0.306 ms

Below is generated by plot.py at 2018-09-25 18:29:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 8.745 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 8.751 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 8.576 ms

Loss rate: 0.18%

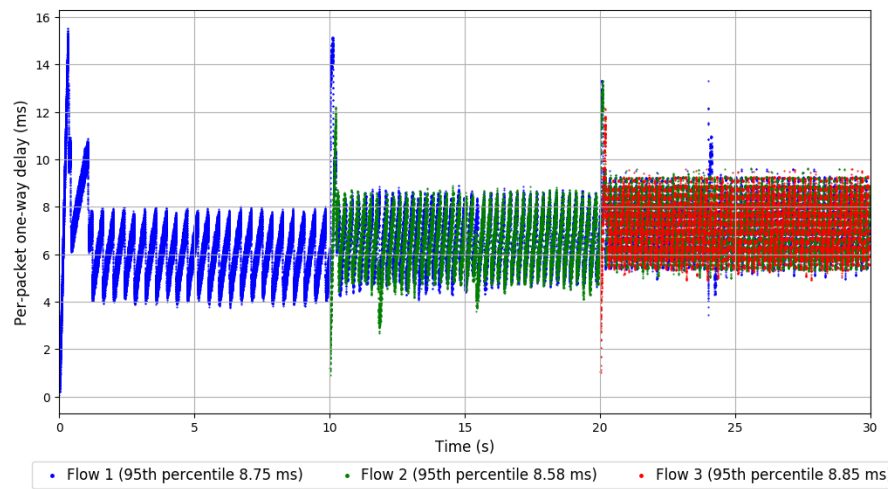
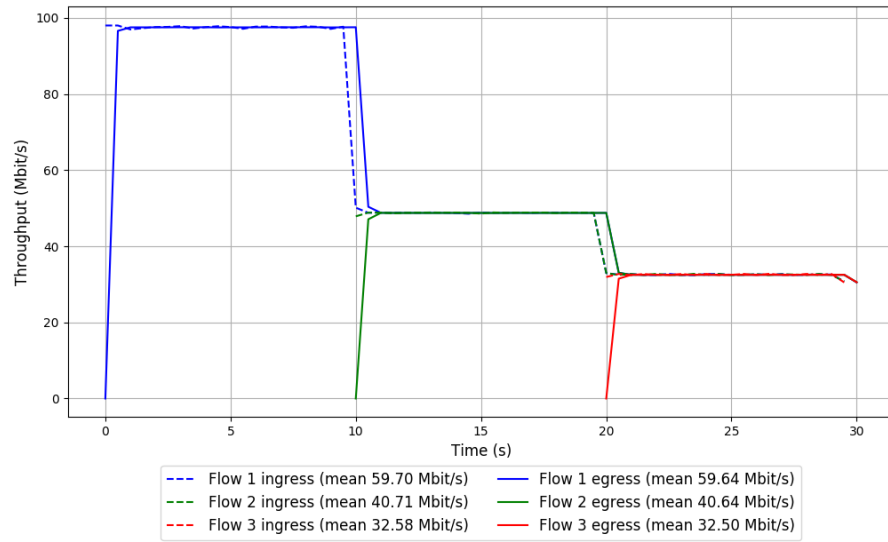
-- Flow 3:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 8.850 ms

Loss rate: 0.26%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-09-25 18:15:55

End at: 2018-09-25 18:16:25

Local clock offset: -5.949 ms

Remote clock offset: 0.454 ms

Below is generated by plot.py at 2018-09-25 18:29:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 9.214 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 9.204 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 9.161 ms

Loss rate: 0.14%

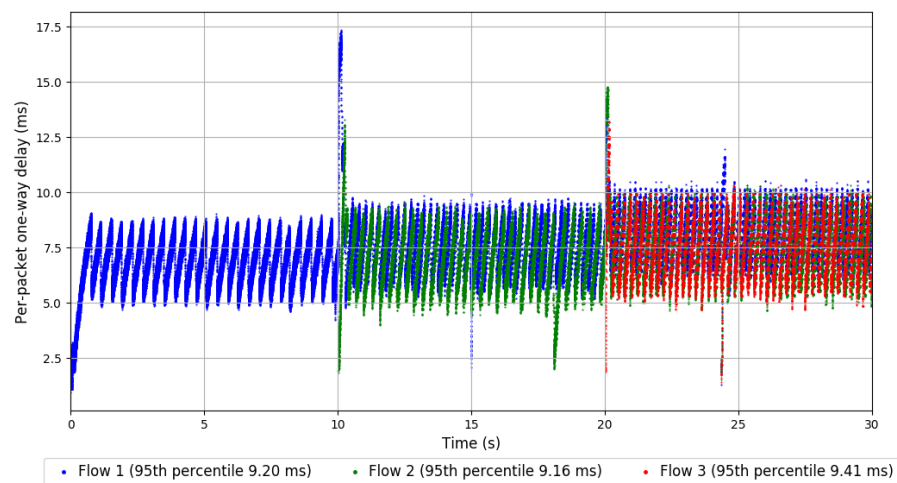
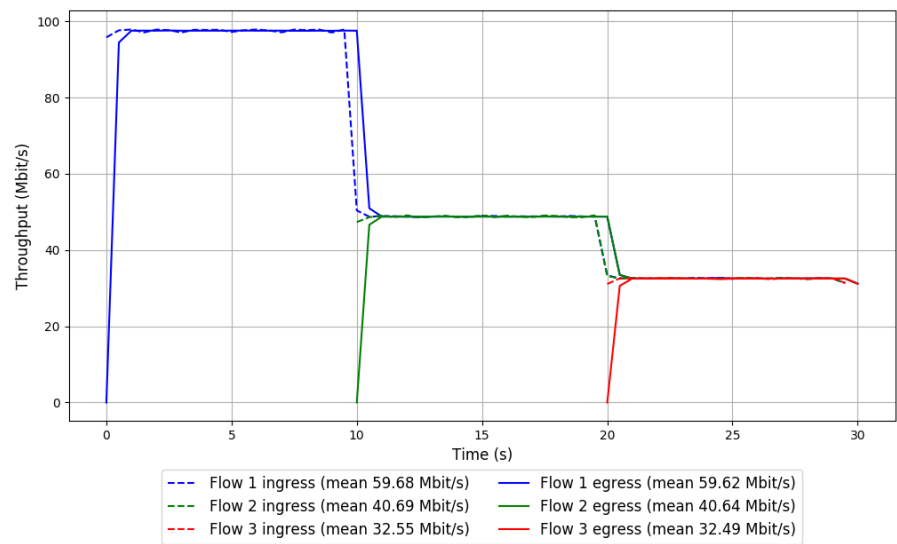
-- Flow 3:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 9.414 ms

Loss rate: 0.25%

Run 5: Report of TCP Cubic — Data Link

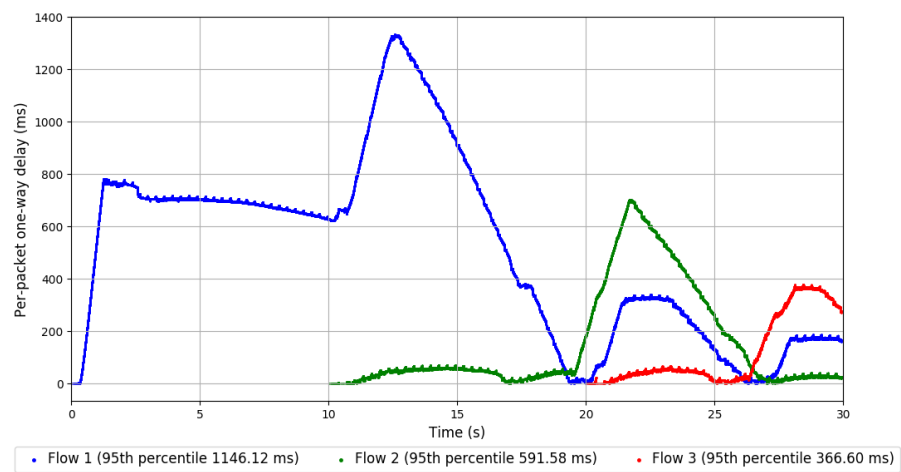
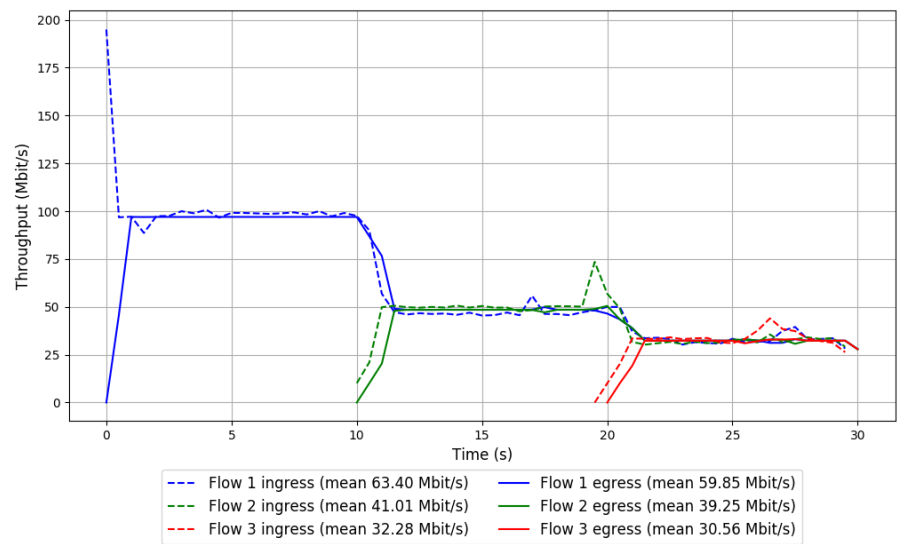


Run 1: Statistics of FillP

Start at: 2018-09-25 16:56:20
End at: 2018-09-25 16:56:50
Local clock offset: -4.593 ms
Remote clock offset: -0.647 ms

Below is generated by plot.py at 2018-09-25 18:30:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 1002.685 ms
Loss rate: 5.22%
-- Flow 1:
Average throughput: 59.85 Mbit/s
95th percentile per-packet one-way delay: 1146.125 ms
Loss rate: 5.60%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 591.578 ms
Loss rate: 4.29%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 366.595 ms
Loss rate: 5.31%

Run 1: Report of FillP — Data Link

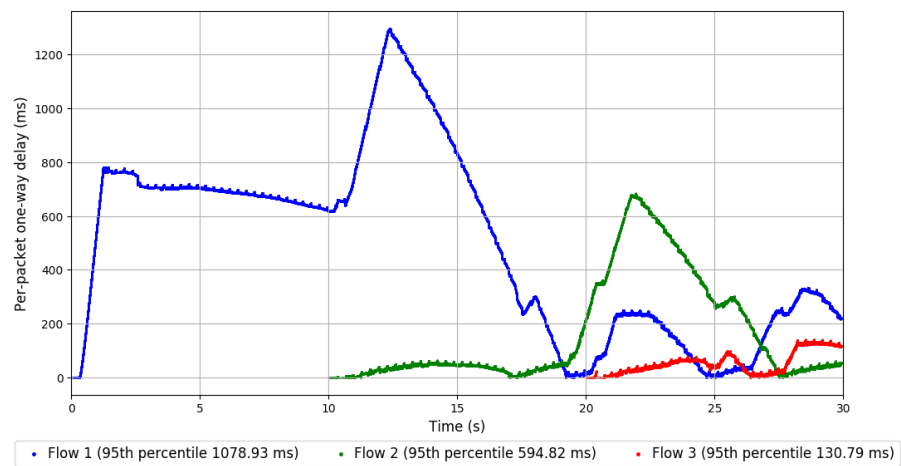
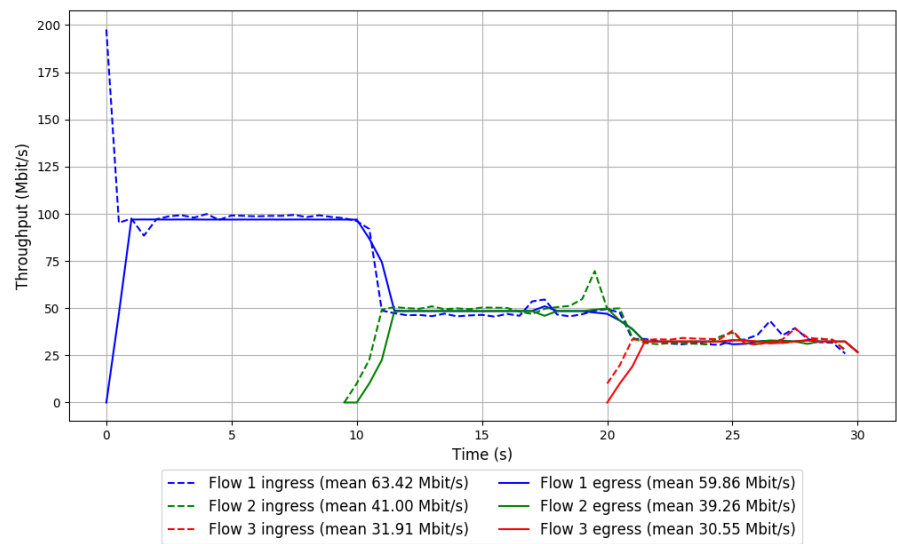


Run 2: Statistics of FillP

Start at: 2018-09-25 17:18:15
End at: 2018-09-25 17:18:45
Local clock offset: -6.07 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-09-25 18:30:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 935.600 ms
Loss rate: 5.11%
-- Flow 1:
Average throughput: 59.86 Mbit/s
95th percentile per-packet one-way delay: 1078.927 ms
Loss rate: 5.61%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 594.822 ms
Loss rate: 4.27%
-- Flow 3:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 130.795 ms
Loss rate: 4.23%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-09-25 17:40:09

End at: 2018-09-25 17:40:39

Local clock offset: -6.738 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-09-25 18:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 1493.479 ms

Loss rate: 9.51%

-- Flow 1:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 777.606 ms

Loss rate: 5.77%

-- Flow 2:

Average throughput: 39.99 Mbit/s

95th percentile per-packet one-way delay: 974.816 ms

Loss rate: 10.55%

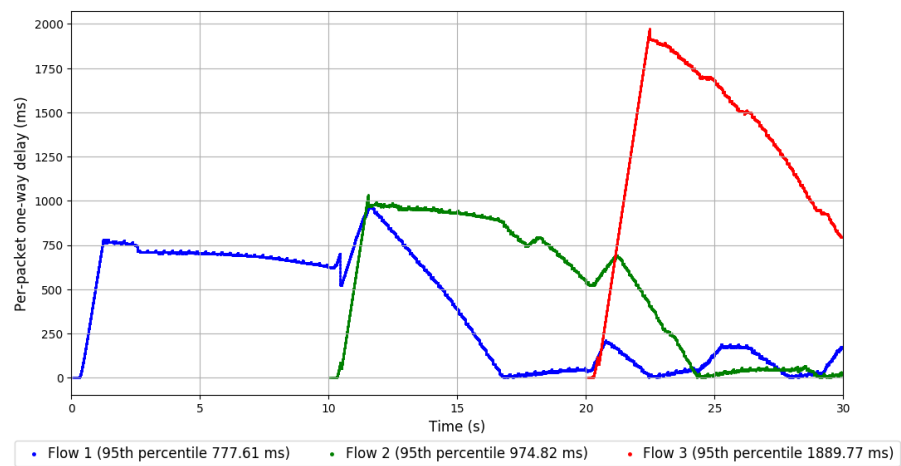
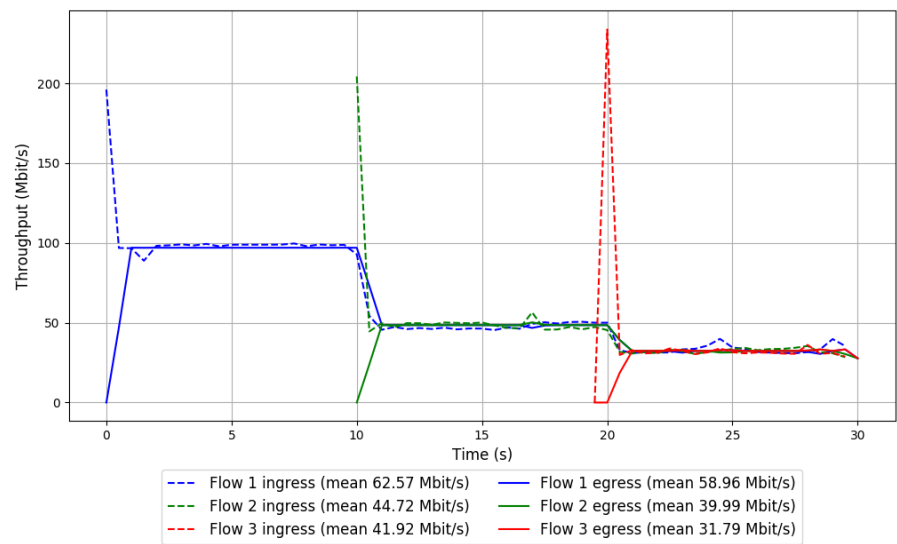
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 1889.769 ms

Loss rate: 24.14%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-09-25 18:02:04

End at: 2018-09-25 18:02:34

Local clock offset: -5.254 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-09-25 18:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 929.195 ms

Loss rate: 4.80%

-- Flow 1:

Average throughput: 59.95 Mbit/s

95th percentile per-packet one-way delay: 1073.049 ms

Loss rate: 5.32%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 459.245 ms

Loss rate: 3.67%

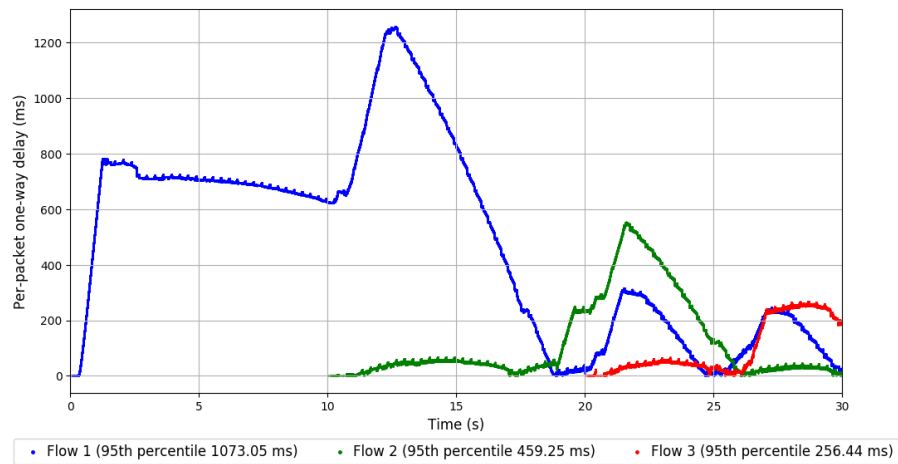
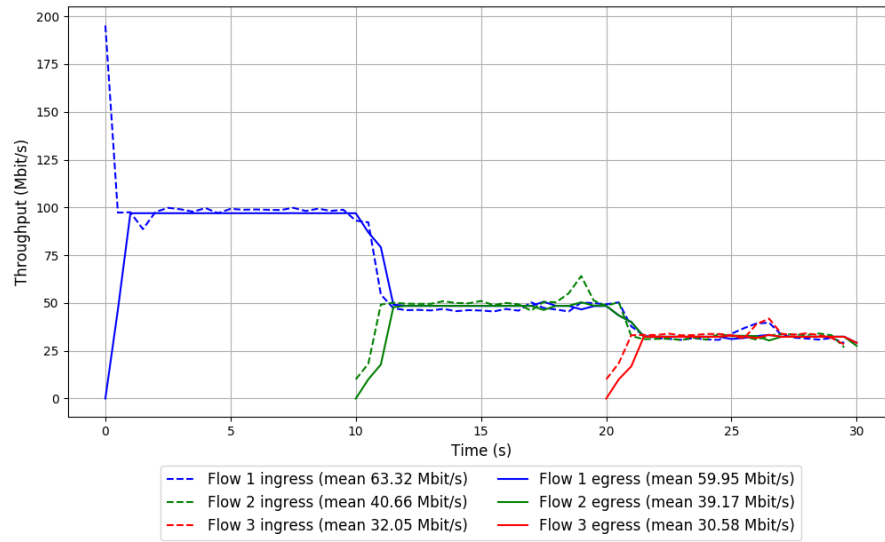
-- Flow 3:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 256.444 ms

Loss rate: 4.59%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

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

End at: 2018-09-25 18:24:30

Local clock offset: -7.296 ms

Remote clock offset: 0.655 ms

Below is generated by plot.py at 2018-09-25 18:31:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 875.445 ms

Loss rate: 6.62%

-- Flow 1:

Average throughput: 59.11 Mbit/s

95th percentile per-packet one-way delay: 769.309 ms

Loss rate: 5.26%

-- Flow 2:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 965.416 ms

Loss rate: 9.34%

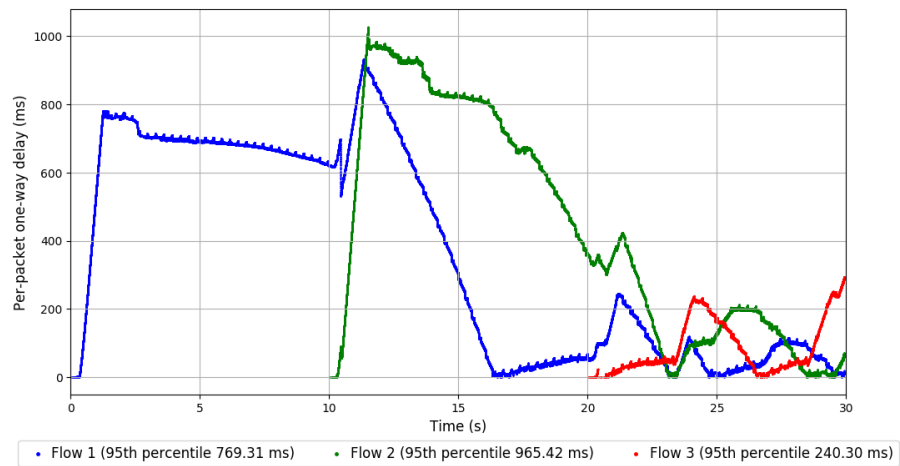
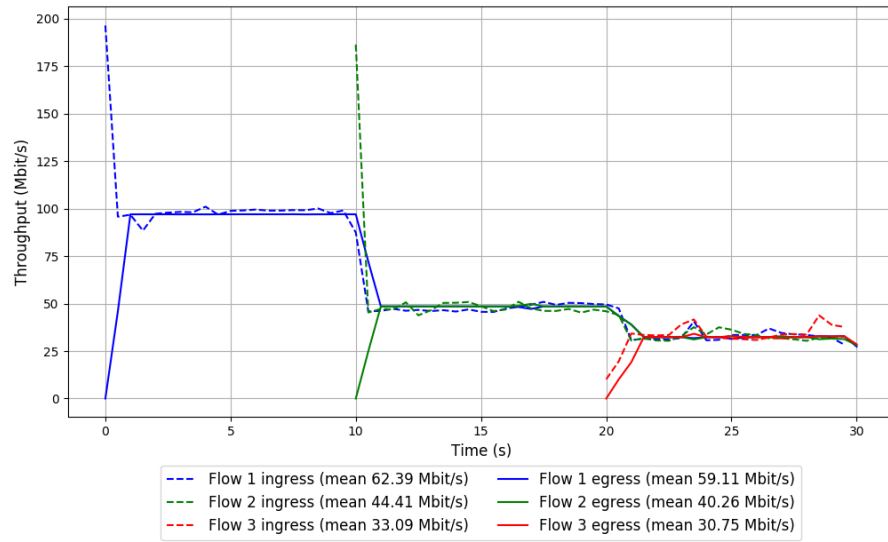
-- Flow 3:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 240.298 ms

Loss rate: 7.07%

Run 5: Report of FillP — Data Link

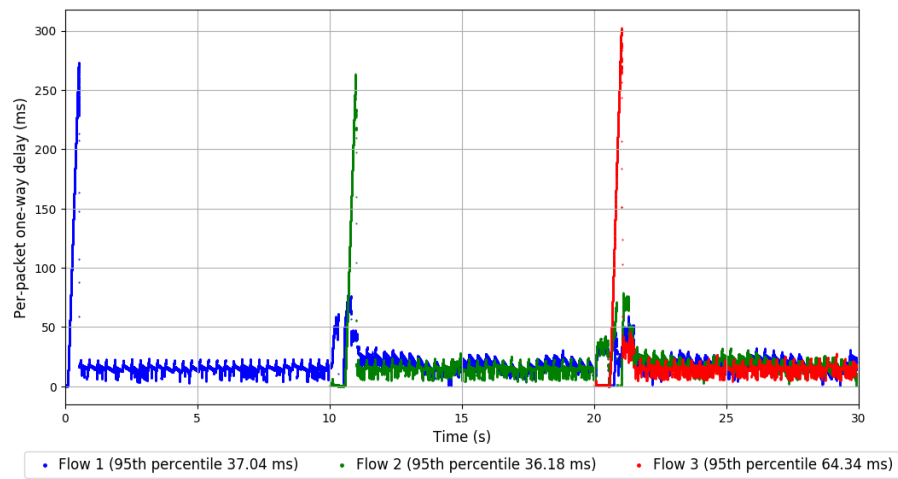
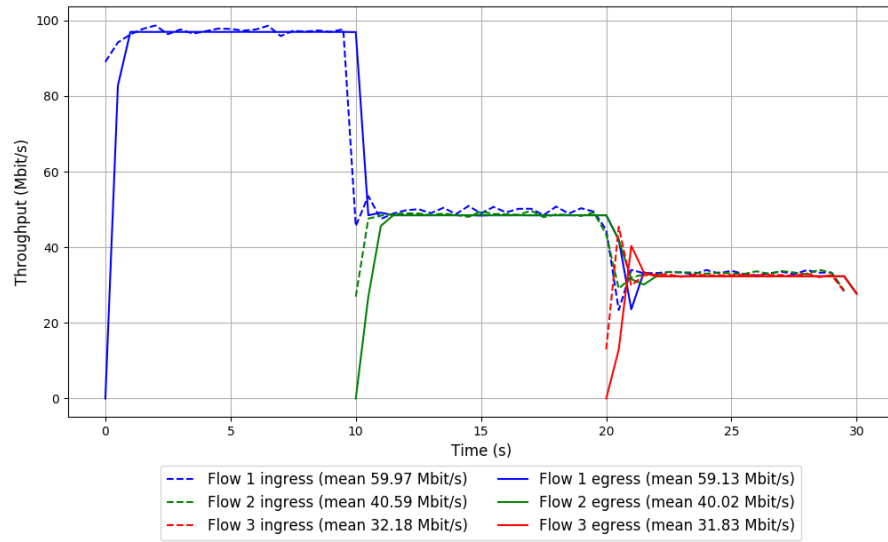


Run 1: Statistics of FillP-Sheep

Start at: 2018-09-25 16:42:22
End at: 2018-09-25 16:42:52
Local clock offset: -6.44 ms
Remote clock offset: -0.756 ms

Below is generated by plot.py at 2018-09-25 18:31:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 37.659 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 59.13 Mbit/s
95th percentile per-packet one-way delay: 37.043 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 36.176 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 64.343 ms
Loss rate: 1.09%

Run 1: Report of FillP-Sheep — Data Link

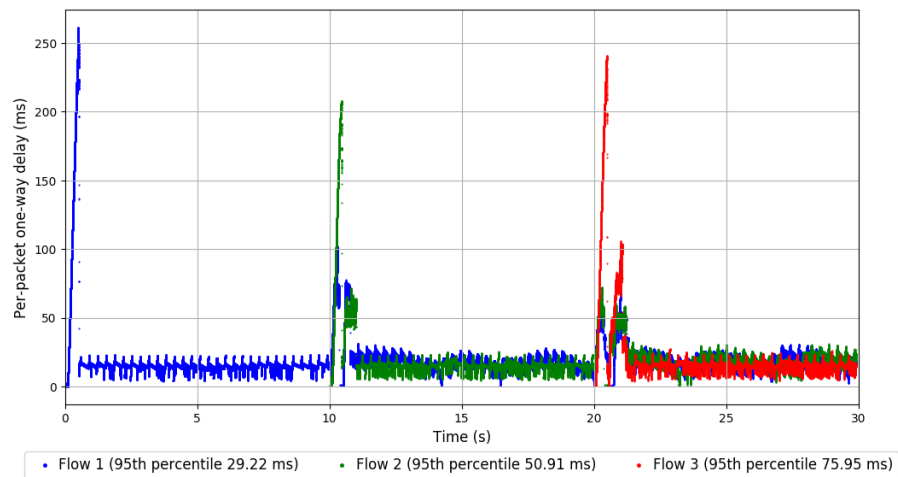
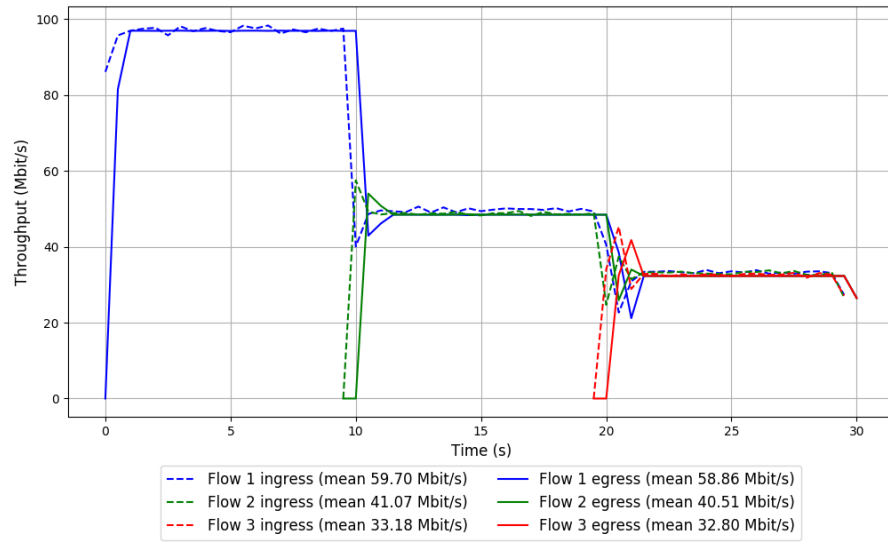


Run 2: Statistics of FillP-Sheep

Start at: 2018-09-25 17:04:17
End at: 2018-09-25 17:04:47
Local clock offset: -5.052 ms
Remote clock offset: -0.411 ms

Below is generated by plot.py at 2018-09-25 18:31:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.70 Mbit/s
95th percentile per-packet one-way delay: 46.424 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 29.220 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 75.947 ms
Loss rate: 1.15%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-09-25 17:26:12

End at: 2018-09-25 17:26:42

Local clock offset: -5.821 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-09-25 18:31:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 44.566 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 59.14 Mbit/s

95th percentile per-packet one-way delay: 30.128 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 52.069 ms

Loss rate: 1.54%

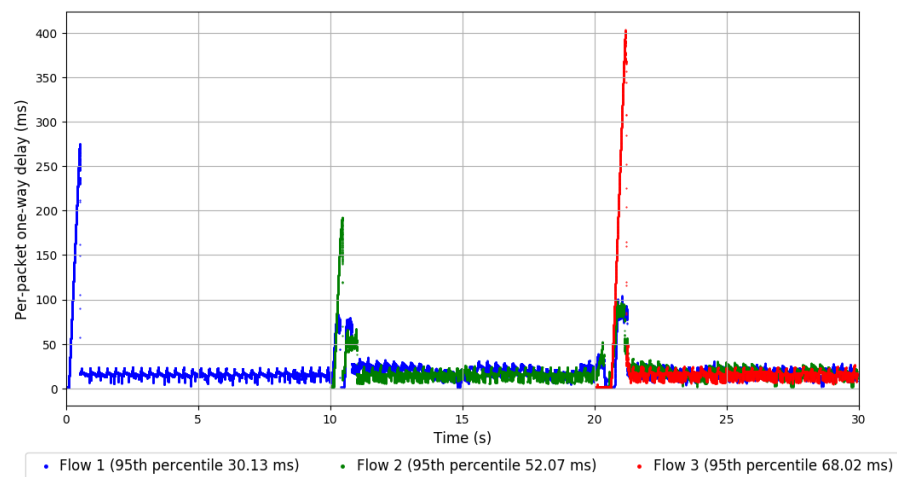
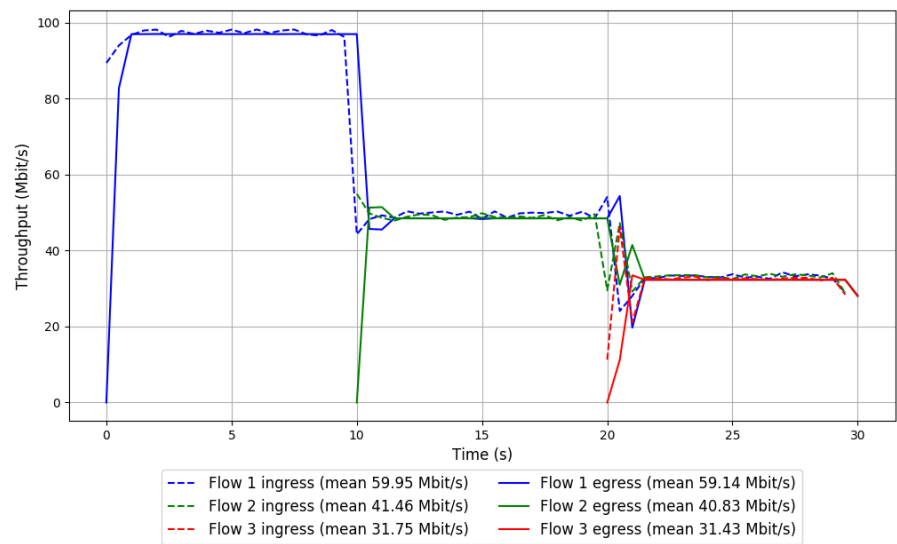
-- Flow 3:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 68.024 ms

Loss rate: 1.05%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-09-25 17:48:07

End at: 2018-09-25 17:48:37

Local clock offset: -5.565 ms

Remote clock offset: 0.253 ms

Below is generated by plot.py at 2018-09-25 18:31:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 42.406 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 31.263 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 49.072 ms

Loss rate: 1.58%

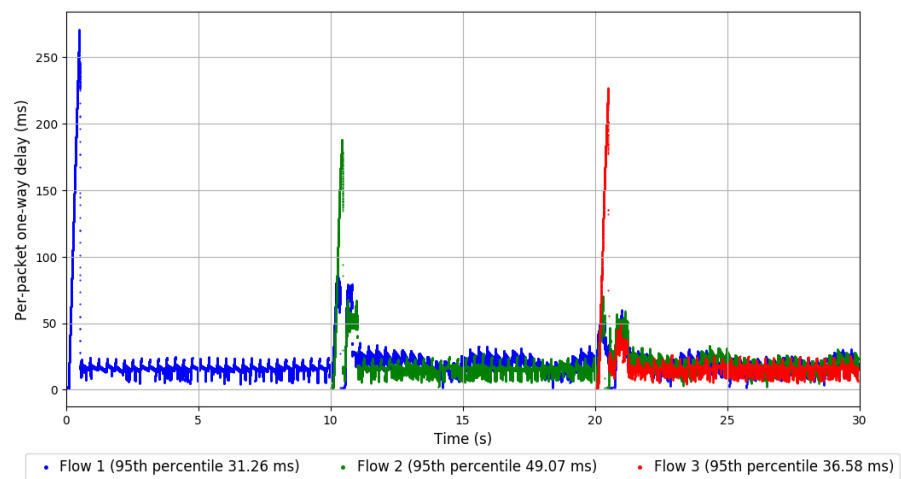
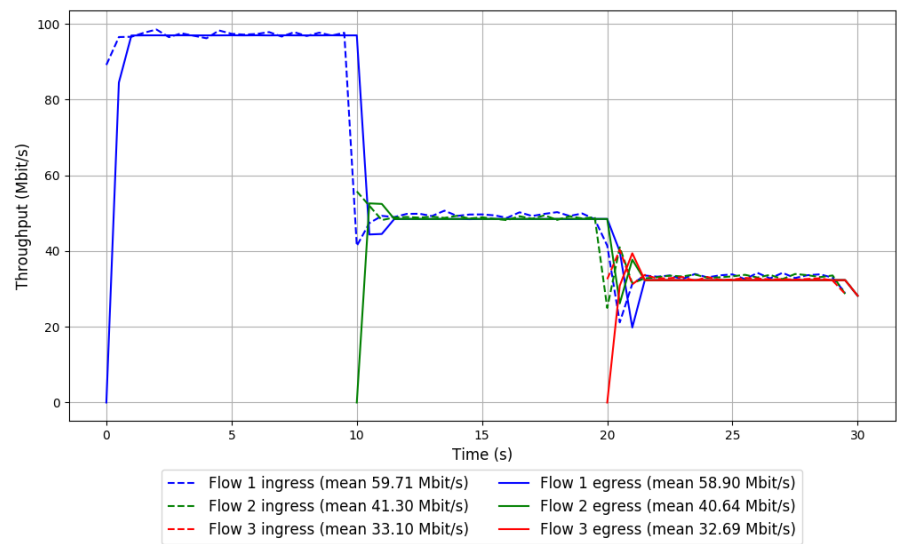
-- Flow 3:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 36.577 ms

Loss rate: 1.28%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-09-25 18:10:02

End at: 2018-09-25 18:10:32

Local clock offset: -5.314 ms

Remote clock offset: 0.46 ms

Below is generated by plot.py at 2018-09-25 18:31:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 44.149 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 43.430 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 46.872 ms

Loss rate: 1.52%

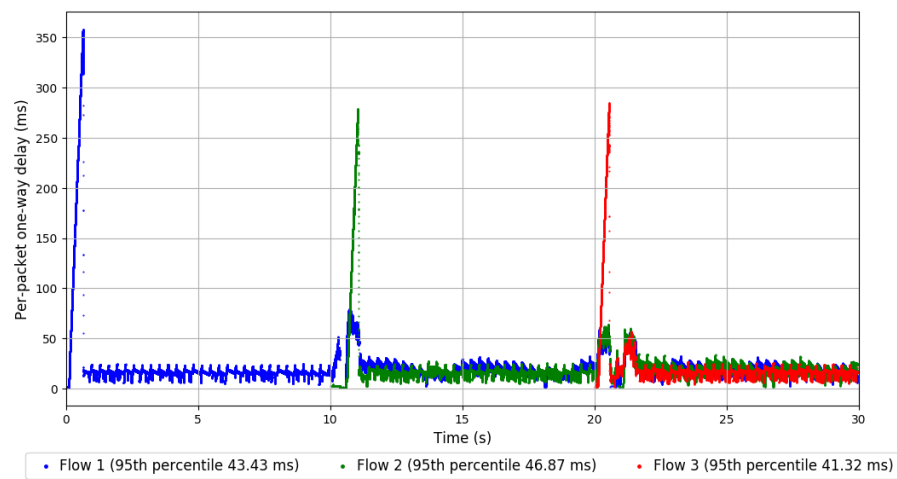
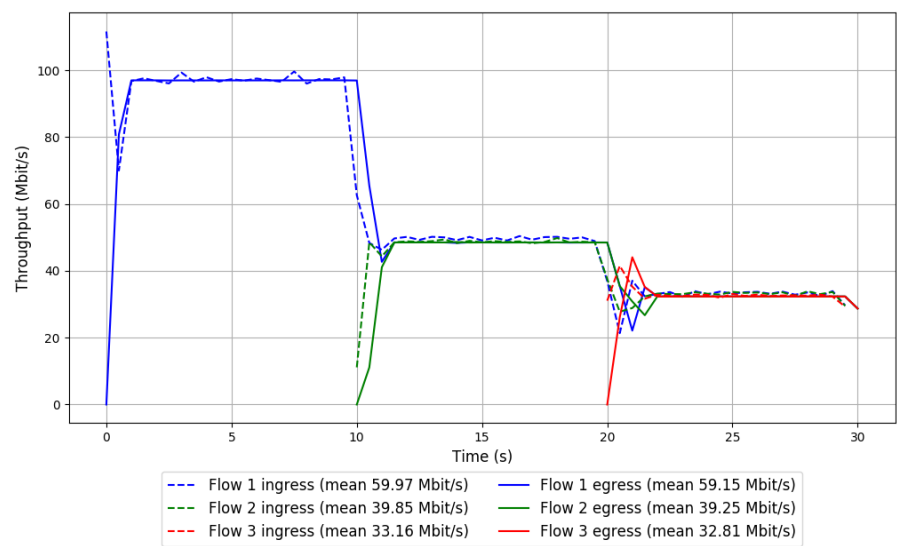
-- Flow 3:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 41.318 ms

Loss rate: 1.04%

Run 5: Report of FillP-Sheep — Data Link

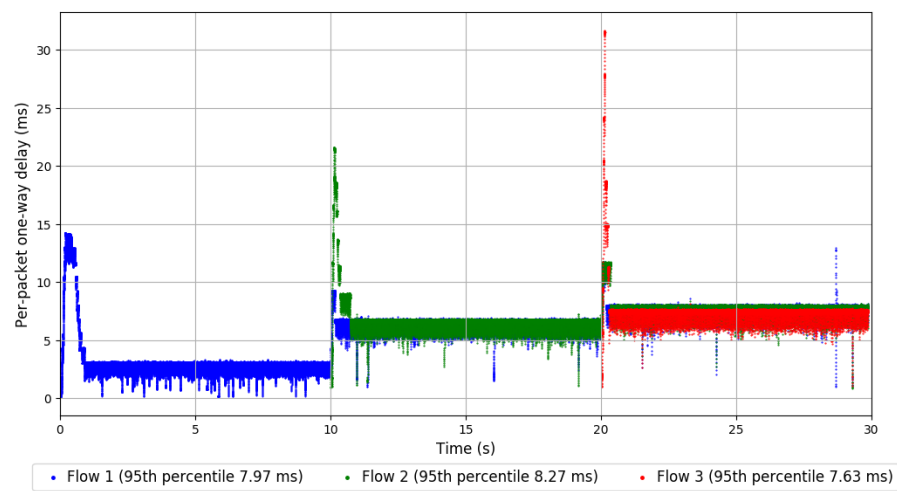
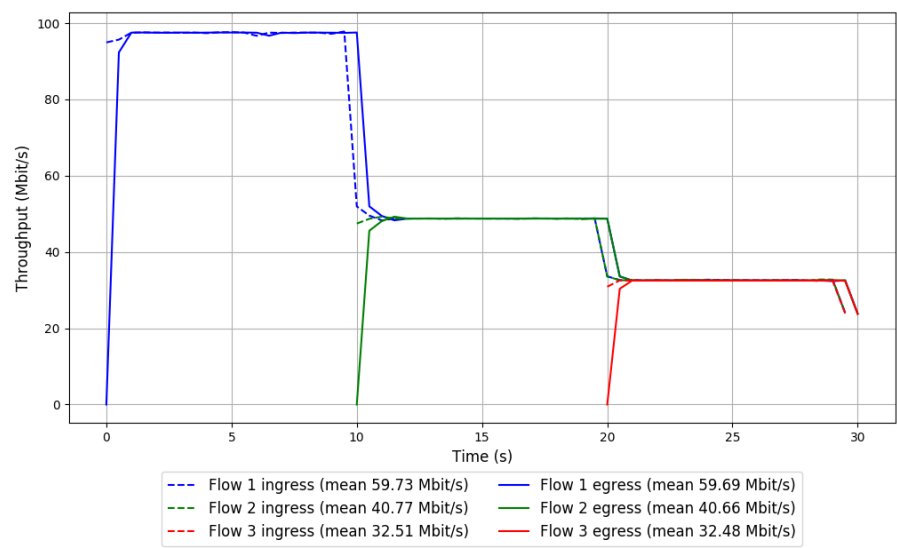


```
Run 1: Statistics of Indigo

Start at: 2018-09-25 16:50:30
End at: 2018-09-25 16:51:00
Local clock offset: -5.603 ms
Remote clock offset: -0.64 ms

# Below is generated by plot.py at 2018-09-25 18:31:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 7.987 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 7.973 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 8.269 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 7.626 ms
Loss rate: 0.11%
```

Run 1: Report of Indigo — Data Link

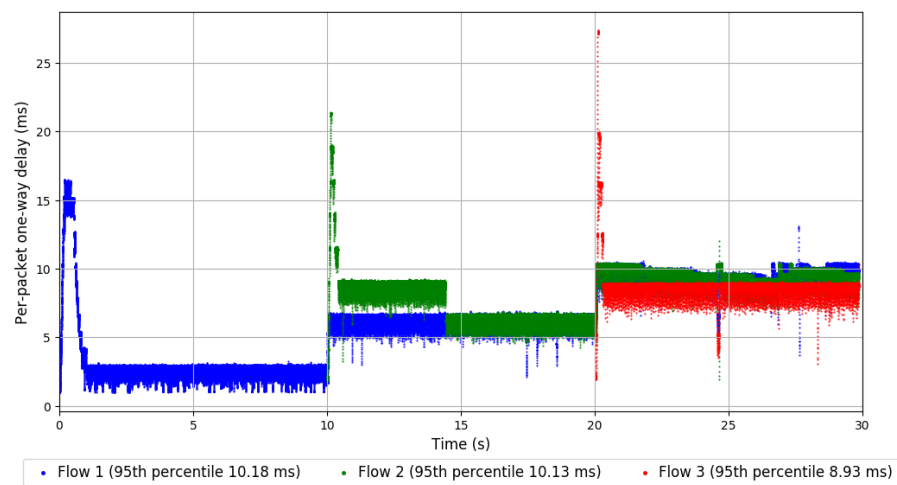
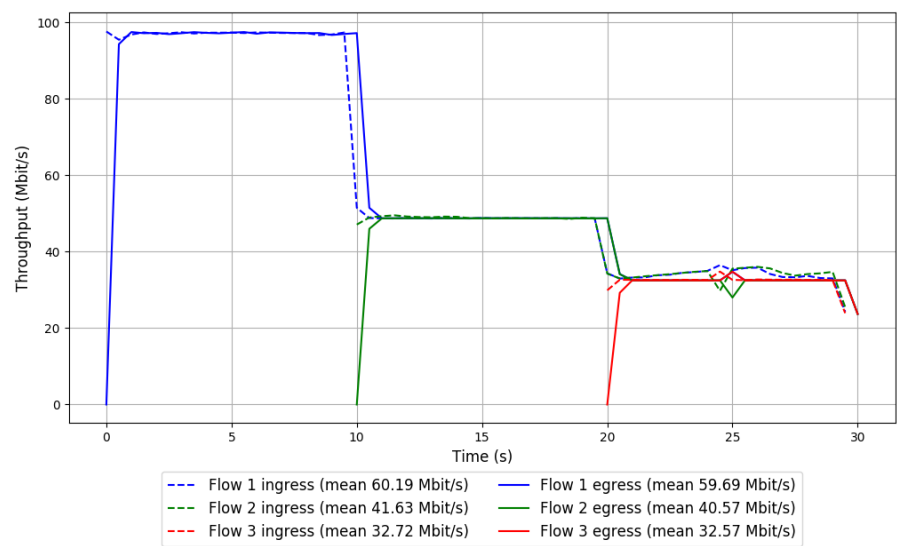


Run 2: Statistics of Indigo

Start at: 2018-09-25 17:12:24
End at: 2018-09-25 17:12:54
Local clock offset: -4.671 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-09-25 18:31:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 10.117 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 10.175 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: 10.126 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 8.925 ms
Loss rate: 0.48%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-09-25 17:34:19

End at: 2018-09-25 17:34:49

Local clock offset: -5.979 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-09-25 18:32:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.780 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 9.834 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 40.68 Mbit/s

95th percentile per-packet one-way delay: 9.359 ms

Loss rate: 0.19%

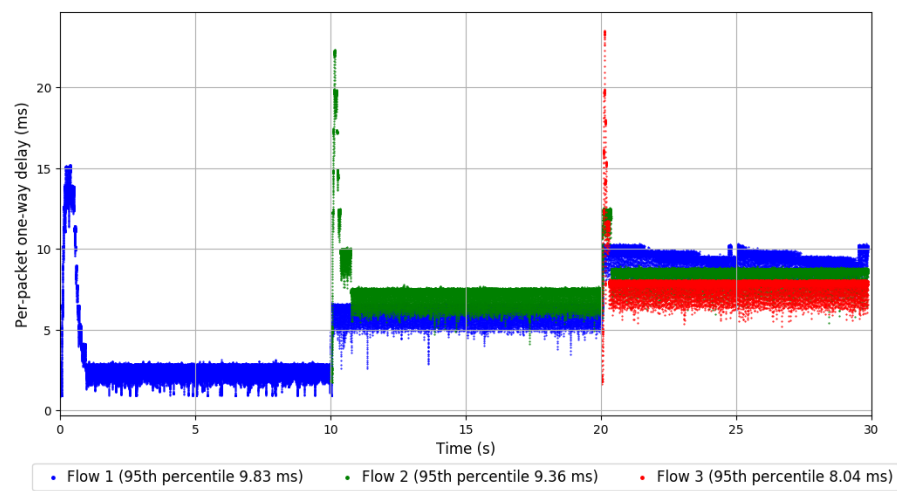
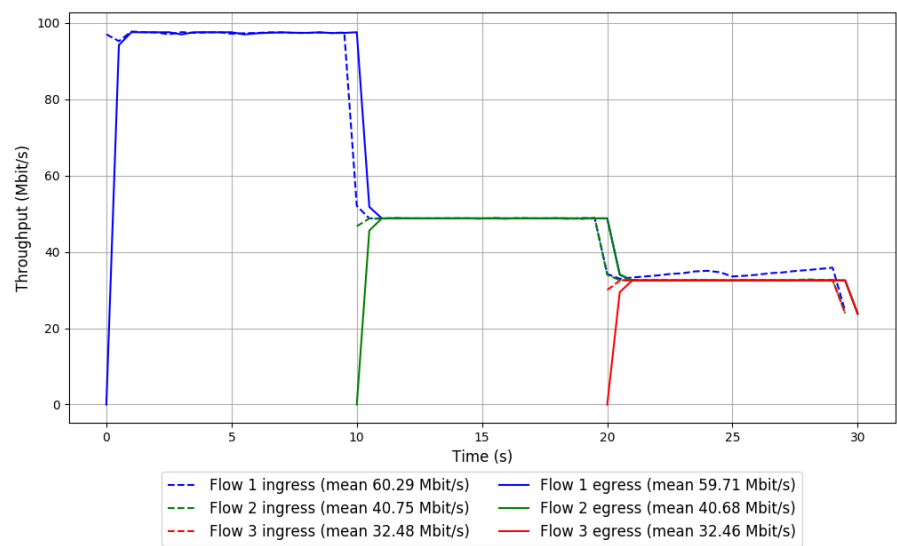
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 8.035 ms

Loss rate: 0.11%

Run 3: Report of Indigo — Data Link

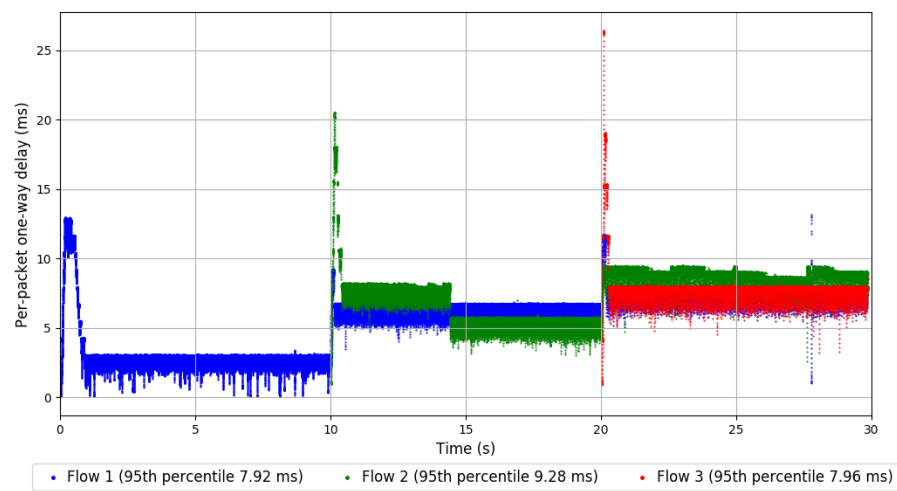
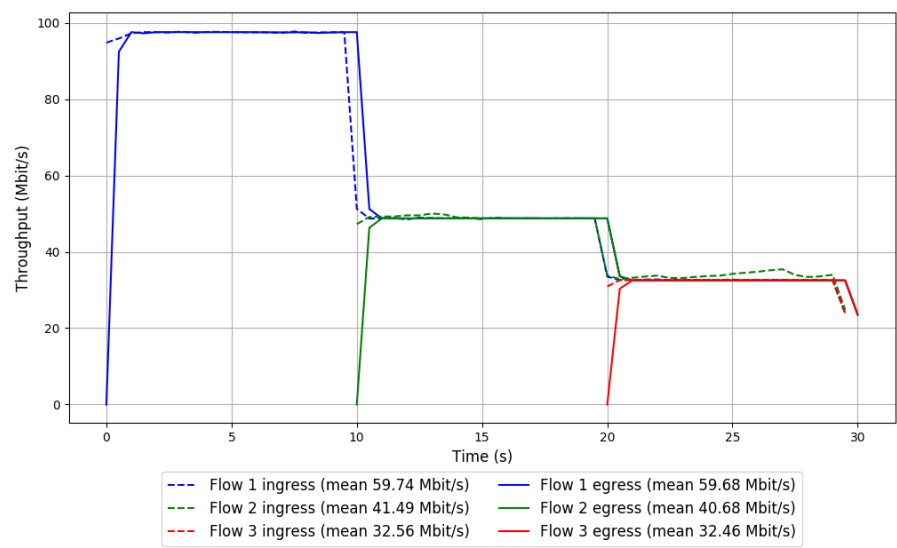


Run 4: Statistics of Indigo

Start at: 2018-09-25 17:56:14
End at: 2018-09-25 17:56:45
Local clock offset: -6.087 ms
Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-09-25 18:32:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 9.010 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 7.918 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 9.277 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 7.958 ms
Loss rate: 0.39%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

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

Local clock offset: -6.119 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2018-09-25 18:32:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 8.575 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 59.65 Mbit/s

95th percentile per-packet one-way delay: 8.557 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 8.957 ms

Loss rate: 0.10%

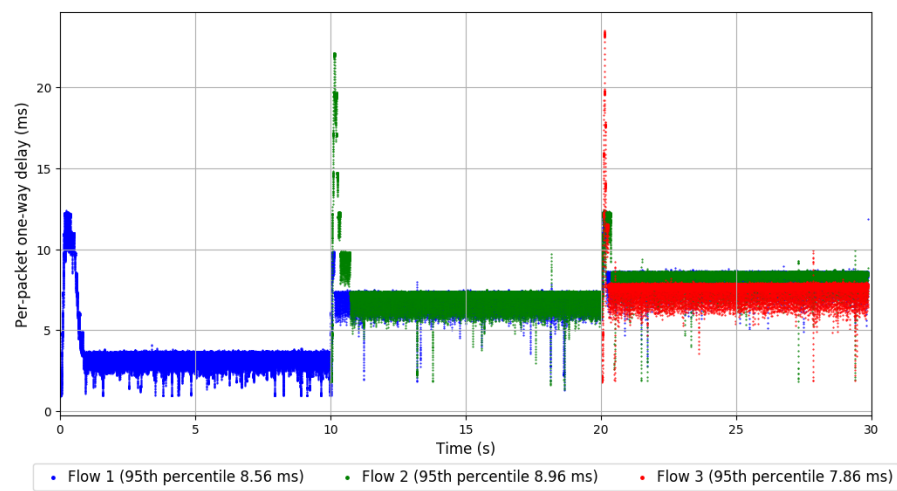
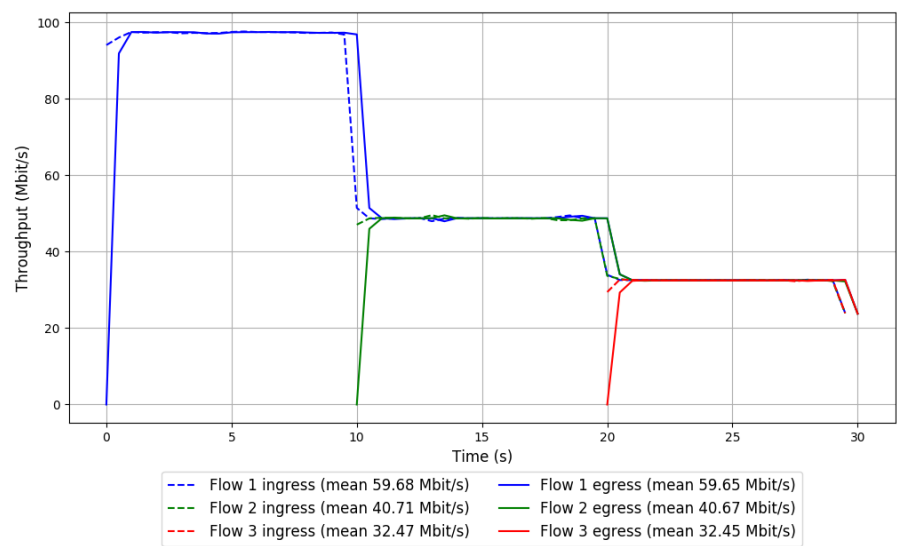
-- Flow 3:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 7.864 ms

Loss rate: 0.10%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-25 16:47:06

End at: 2018-09-25 16:47:36

Local clock offset: -5.894 ms

Remote clock offset: -0.63 ms

Below is generated by plot.py at 2018-09-25 18:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 6.512 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 59.65 Mbit/s

95th percentile per-packet one-way delay: 6.224 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 4.729 ms

Loss rate: 0.01%

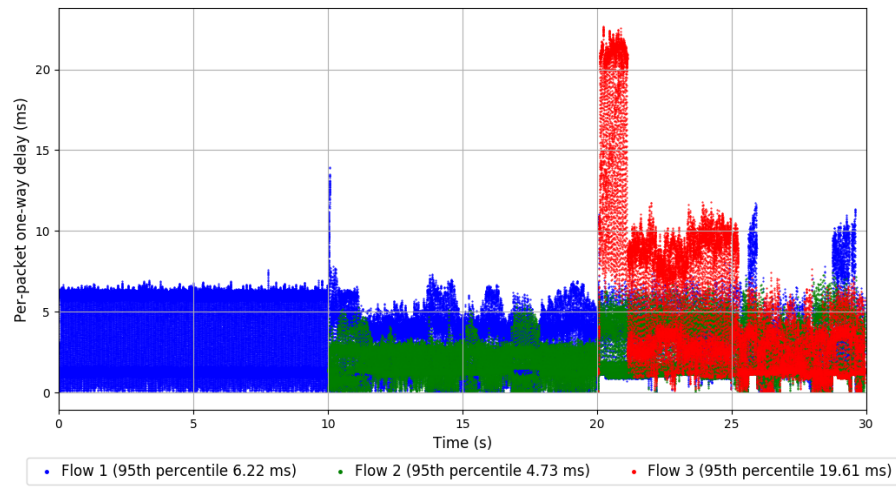
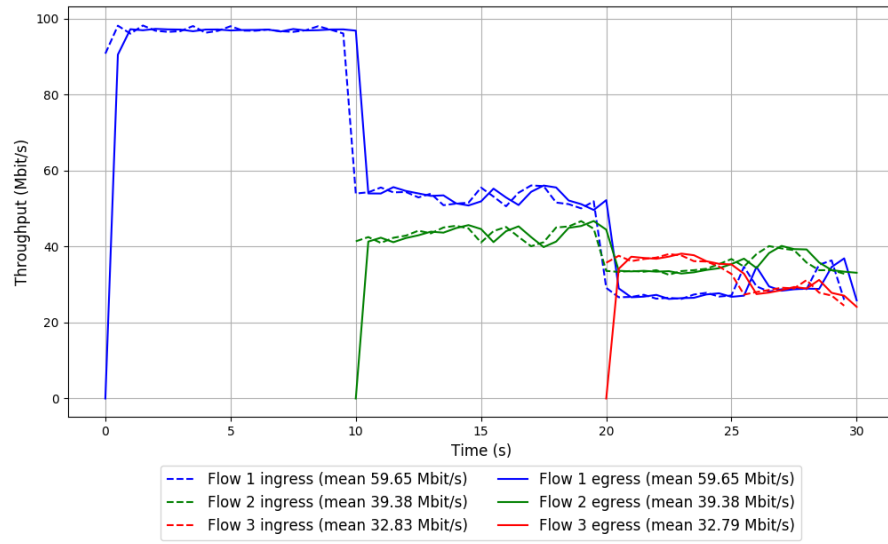
-- Flow 3:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 19.615 ms

Loss rate: 0.11%

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

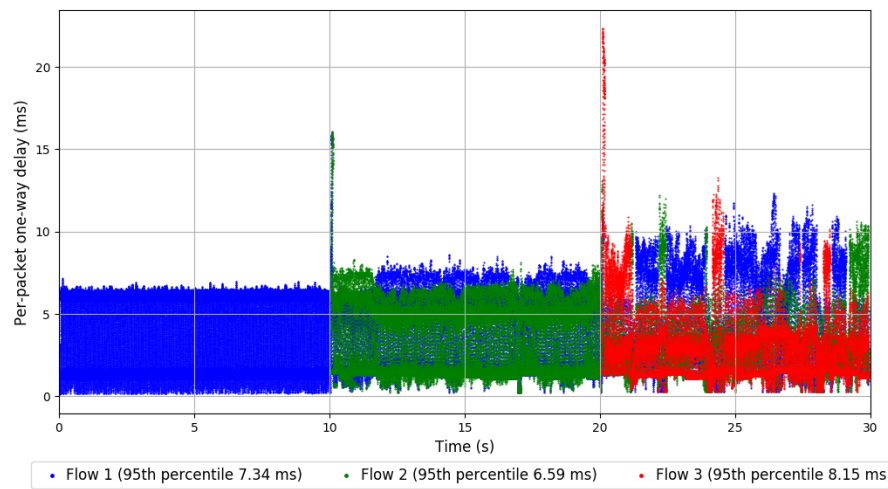
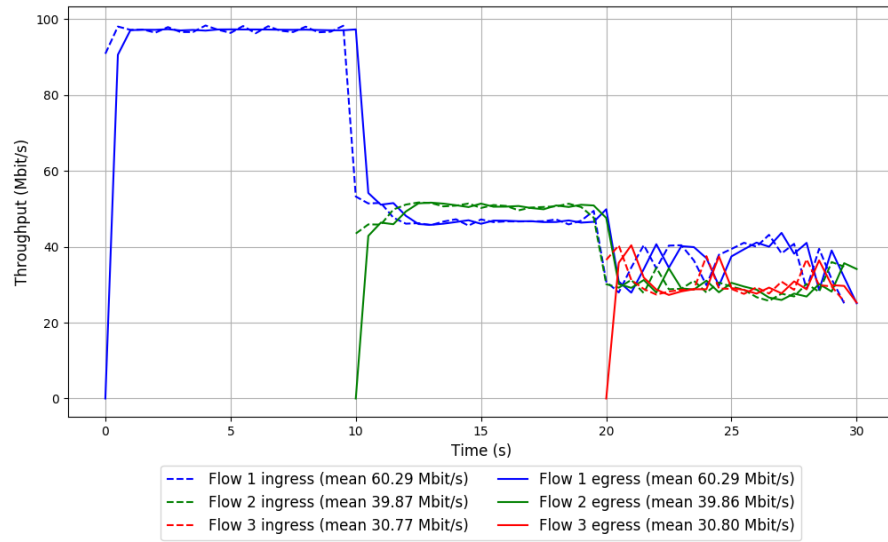


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:09:01
End at: 2018-09-25 17:09:31
Local clock offset: -4.823 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-09-25 18:32:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 7.254 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.29 Mbit/s
95th percentile per-packet one-way delay: 7.345 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.86 Mbit/s
95th percentile per-packet one-way delay: 6.587 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 8.148 ms
Loss rate: 0.07%

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

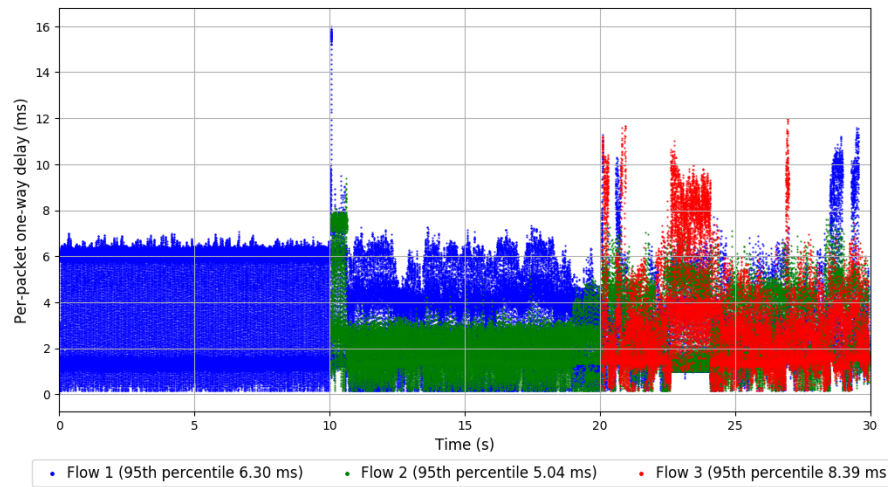
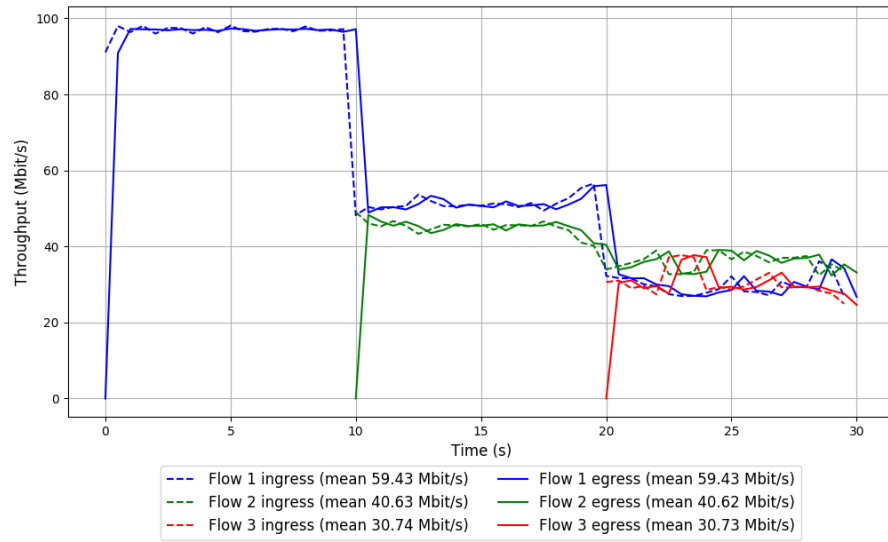


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:30:55
End at: 2018-09-25 17:31:25
Local clock offset: -6.727 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-09-25 18:32:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 6.283 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.43 Mbit/s
95th percentile per-packet one-way delay: 6.296 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 5.035 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 8.393 ms
Loss rate: 0.08%

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



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:52:51

End at: 2018-09-25 17:53:21

Local clock offset: -6.137 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-09-25 18:32:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 7.920 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 6.936 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 13.711 ms

Loss rate: 0.02%

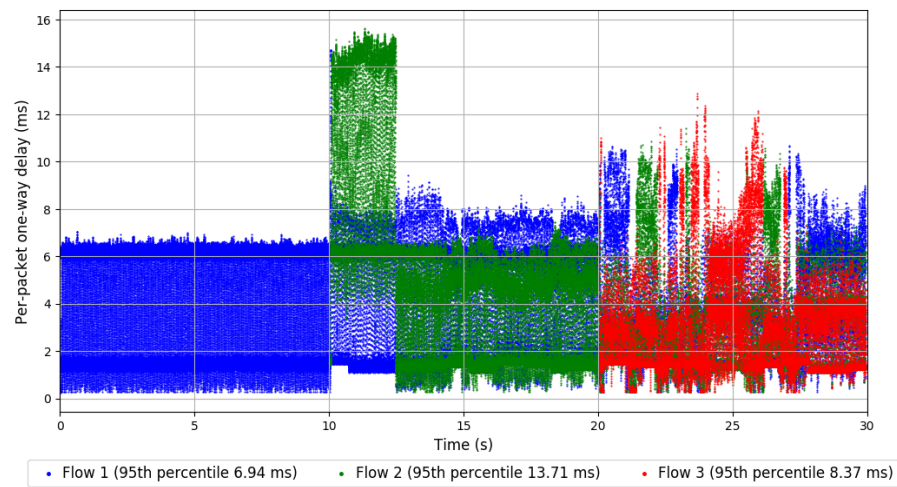
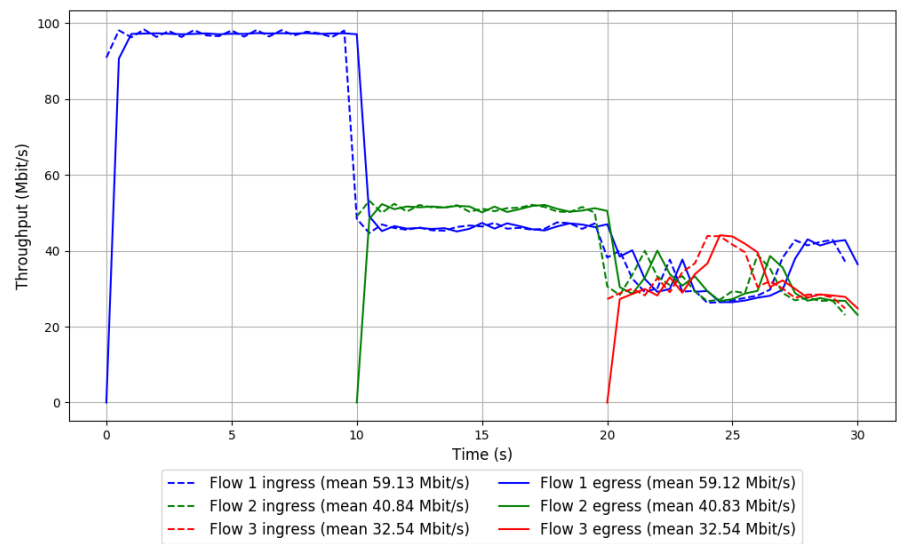
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 8.372 ms

Loss rate: 0.03%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-25 18:14:46

End at: 2018-09-25 18:15:16

Local clock offset: -6.753 ms

Remote clock offset: 0.539 ms

Below is generated by plot.py at 2018-09-25 18:32:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 5.598 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 4.061 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 6.102 ms

Loss rate: 0.02%

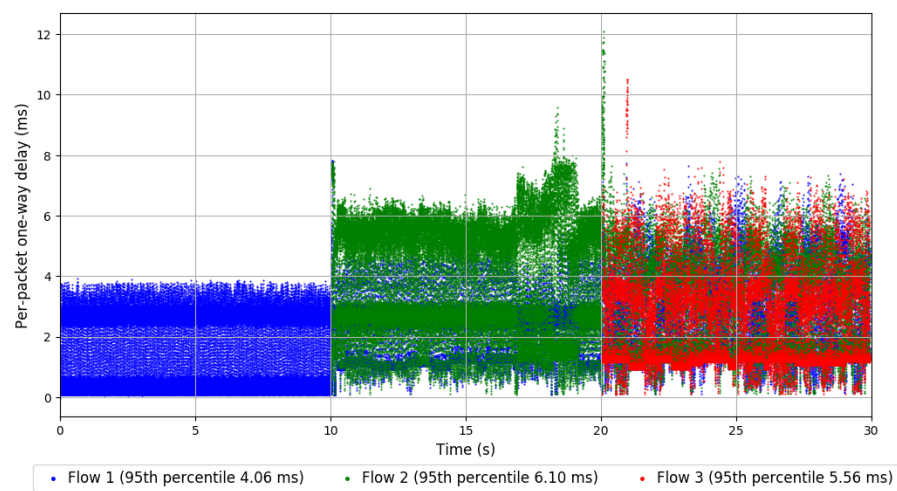
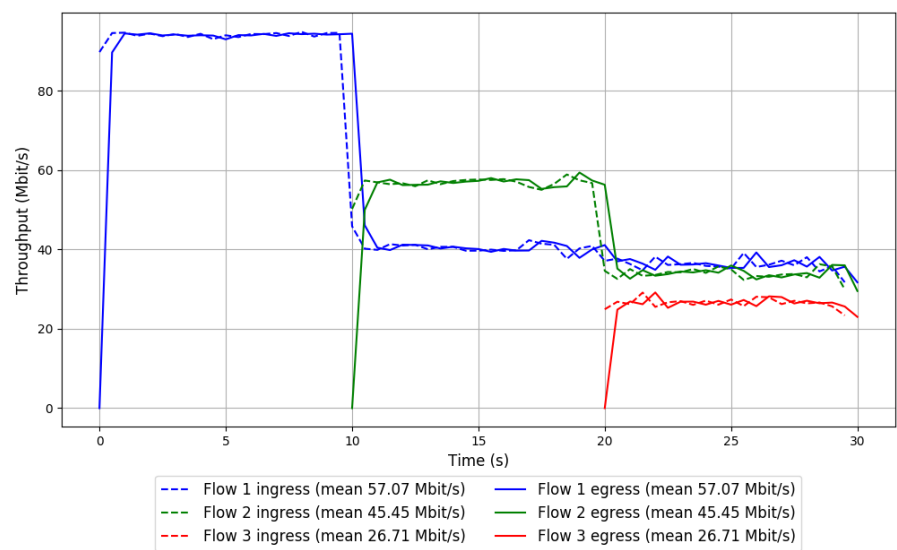
-- Flow 3:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 5.562 ms

Loss rate: 0.09%

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

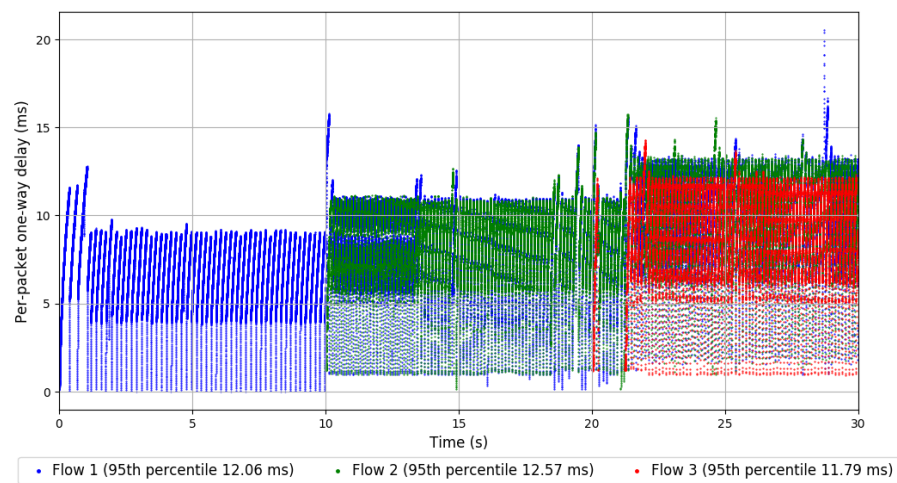
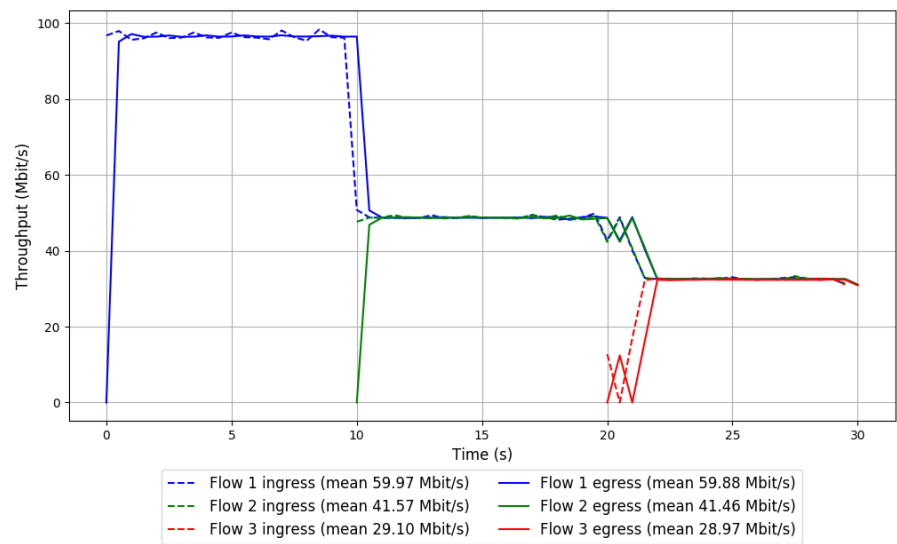


Run 1: Statistics of LEDBAT

Start at: 2018-09-25 16:45:56
End at: 2018-09-25 16:46:26
Local clock offset: -5.993 ms
Remote clock offset: -0.698 ms

Below is generated by plot.py at 2018-09-25 18:33:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 12.262 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 12.057 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 41.46 Mbit/s
95th percentile per-packet one-way delay: 12.567 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 11.791 ms
Loss rate: 0.49%

Run 1: Report of LEDBAT — Data Link

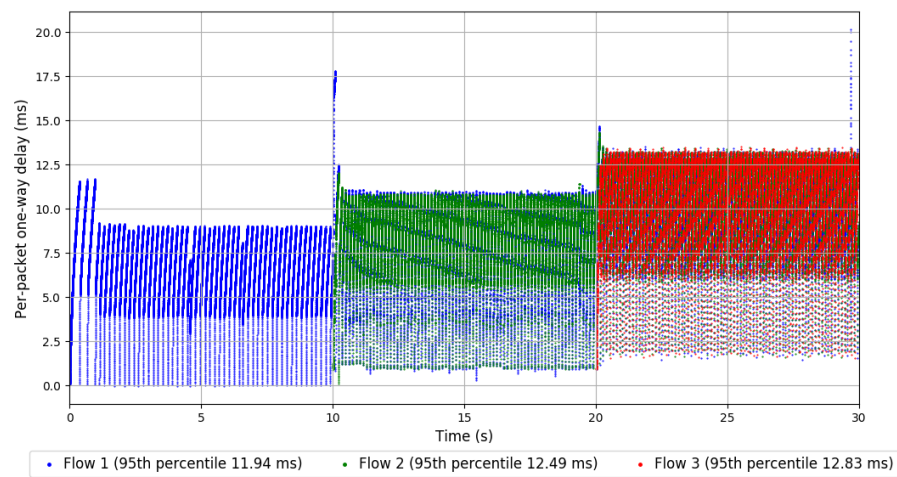
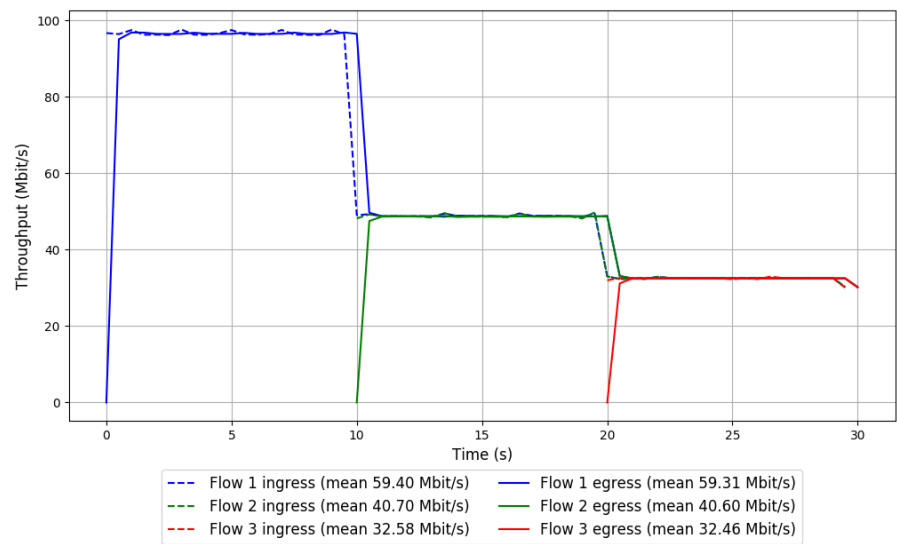


Run 2: Statistics of LEDBAT

Start at: 2018-09-25 17:07:50
End at: 2018-09-25 17:08:20
Local clock offset: -4.855 ms
Remote clock offset: -0.316 ms

Below is generated by plot.py at 2018-09-25 18:33:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 12.428 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 11.936 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 12.492 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 12.826 ms
Loss rate: 0.35%

Run 2: Report of LEDBAT — Data Link

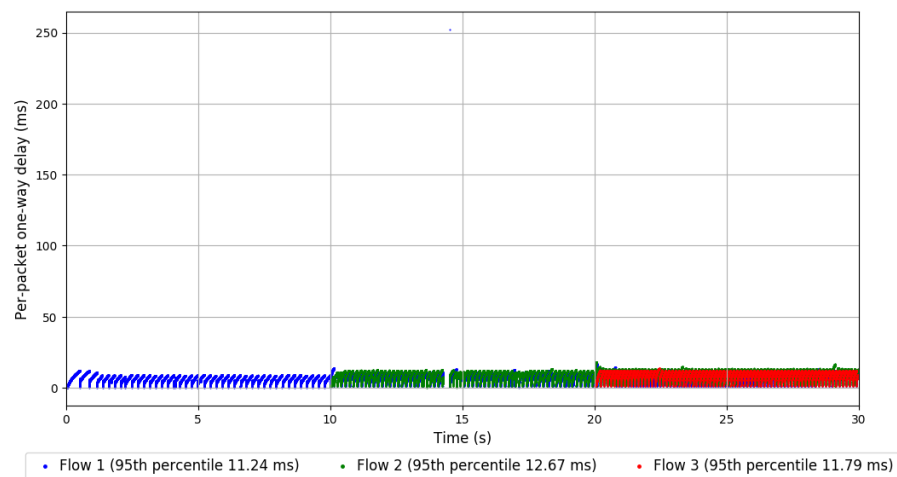
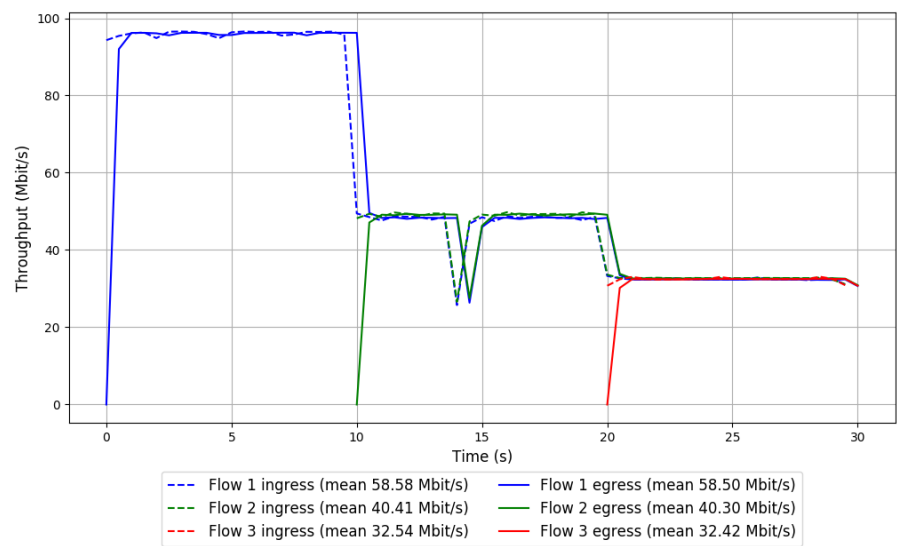


Run 3: Statistics of LEDBAT

Start at: 2018-09-25 17:29:45
End at: 2018-09-25 17:30:15
Local clock offset: -6.716 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-09-25 18:33:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 11.889 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.50 Mbit/s
95th percentile per-packet one-way delay: 11.236 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 40.30 Mbit/s
95th percentile per-packet one-way delay: 12.669 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 32.42 Mbit/s
95th percentile per-packet one-way delay: 11.787 ms
Loss rate: 0.41%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-09-25 17:51:40

End at: 2018-09-25 17:52:10

Local clock offset: -6.237 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-09-25 18:33:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 12.211 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 11.989 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 11.553 ms

Loss rate: 0.25%

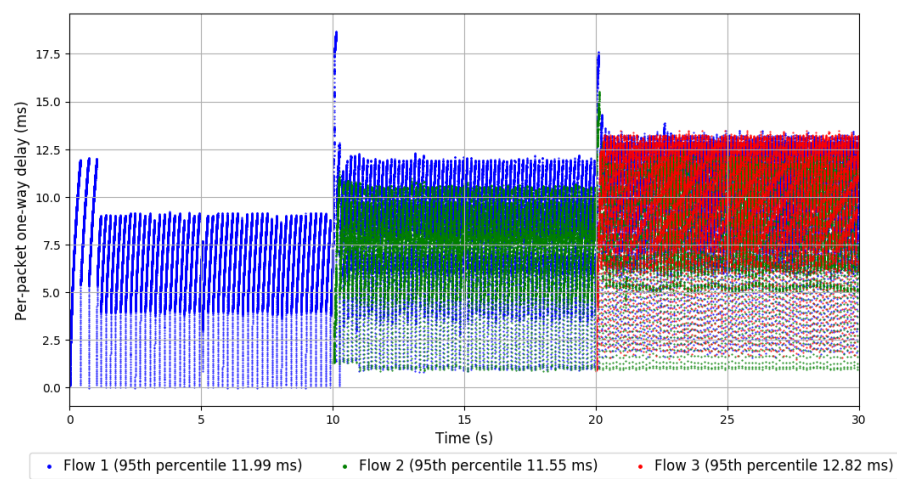
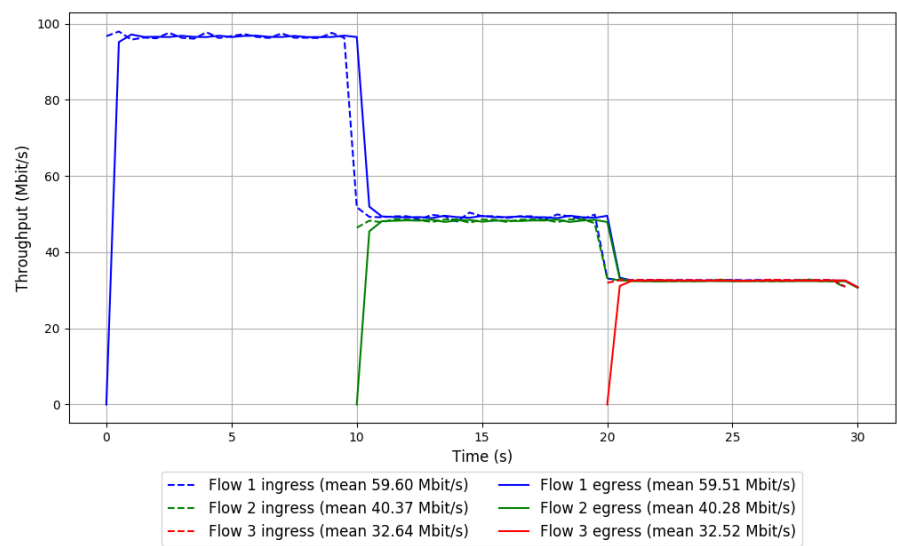
-- Flow 3:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 12.823 ms

Loss rate: 0.38%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-09-25 18:13:35

End at: 2018-09-25 18:14:05

Local clock offset: -6.621 ms

Remote clock offset: 0.591 ms

Below is generated by plot.py at 2018-09-25 18:33:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 12.286 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 59.36 Mbit/s

95th percentile per-packet one-way delay: 12.053 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.65 Mbit/s

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

Loss rate: 0.26%

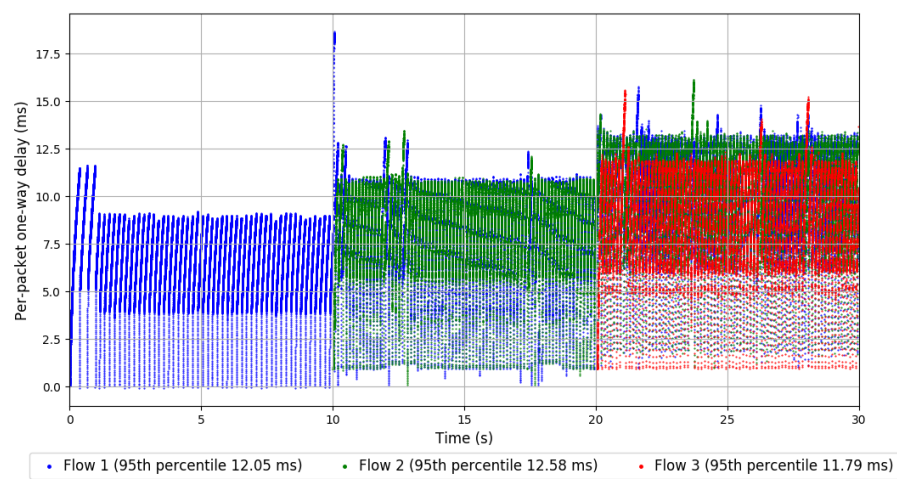
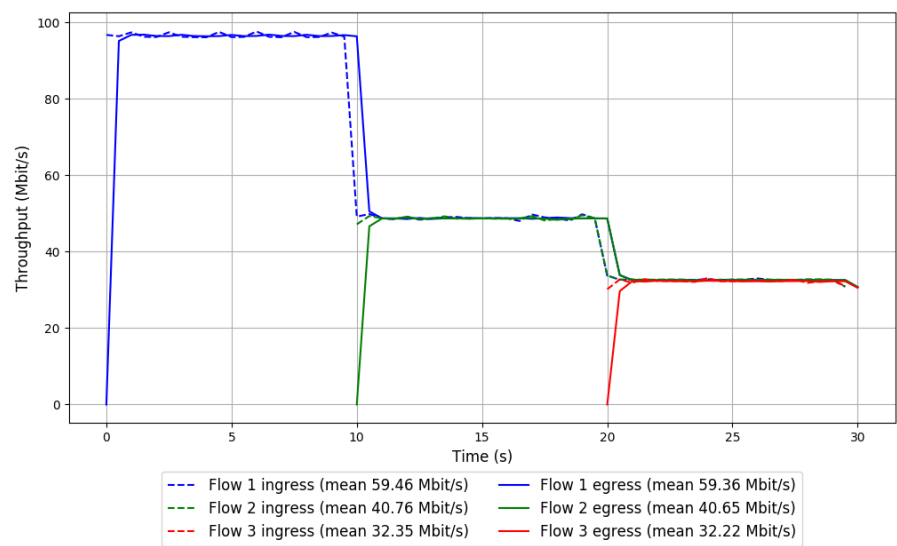
-- Flow 3:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 11.787 ms

Loss rate: 0.41%

Run 5: Report of LEDBAT — Data Link

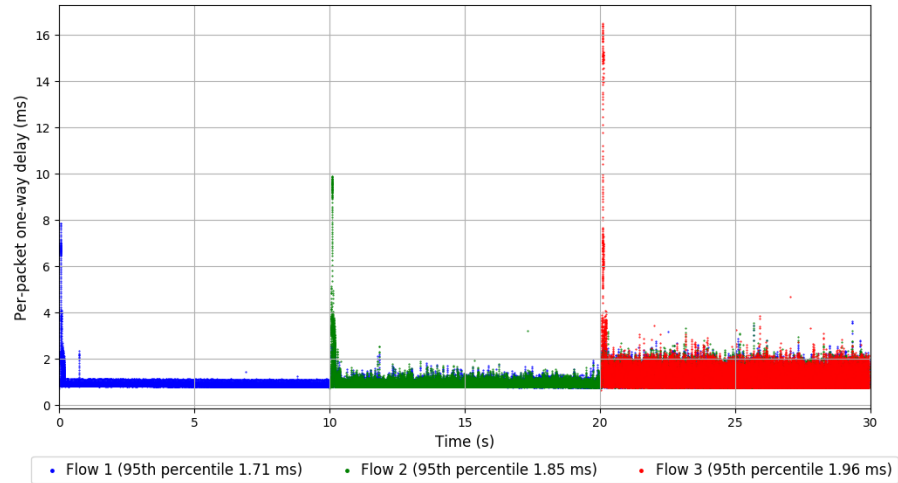
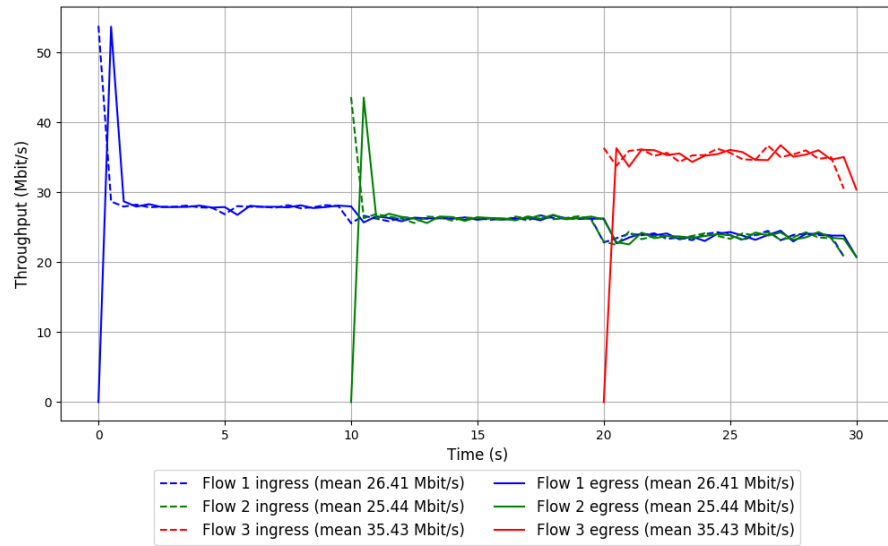


Run 1: Statistics of Indigo-Muses

Start at: 2018-09-25 16:41:15
End at: 2018-09-25 16:41:45
Local clock offset: -5.887 ms
Remote clock offset: -0.756 ms

Below is generated by plot.py at 2018-09-25 18:33:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 1.838 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 26.41 Mbit/s
95th percentile per-packet one-way delay: 1.714 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 25.44 Mbit/s
95th percentile per-packet one-way delay: 1.855 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: 1.958 ms
Loss rate: 0.03%

Run 1: Report of Indigo-Muses — Data Link

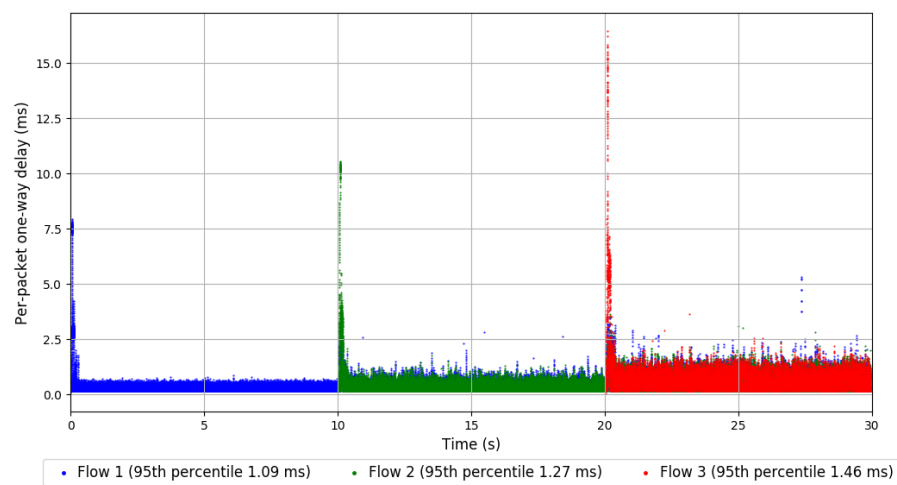
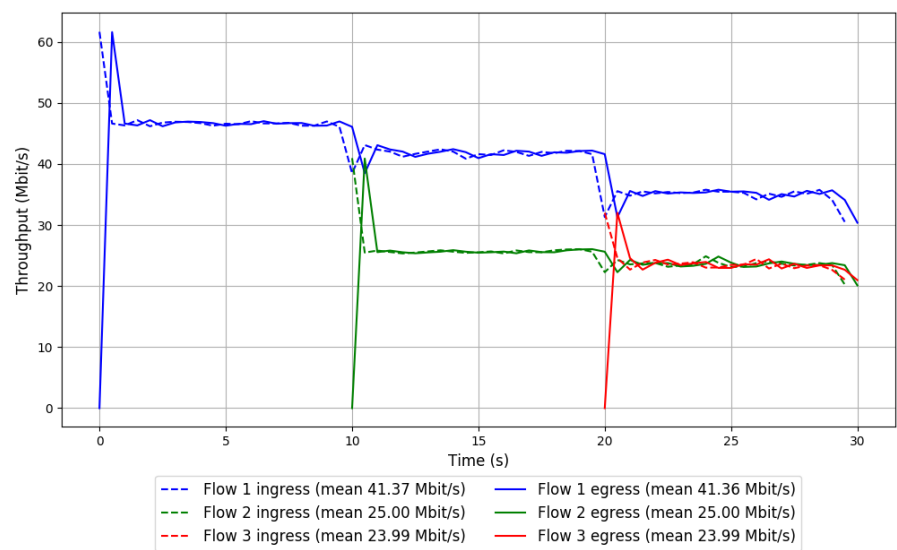


Run 2: Statistics of Indigo-Muses

Start at: 2018-09-25 17:03:09
End at: 2018-09-25 17:03:39
Local clock offset: -5.027 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-09-25 18:33:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 25.00 Mbit/s
95th percentile per-packet one-way delay: 1.267 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 1.464 ms
Loss rate: 0.02%

Run 2: Report of Indigo-Muses — Data Link

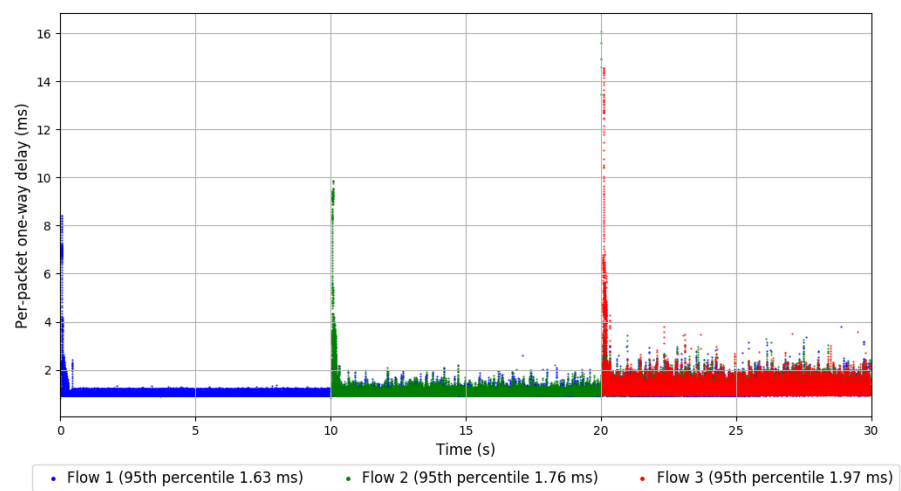
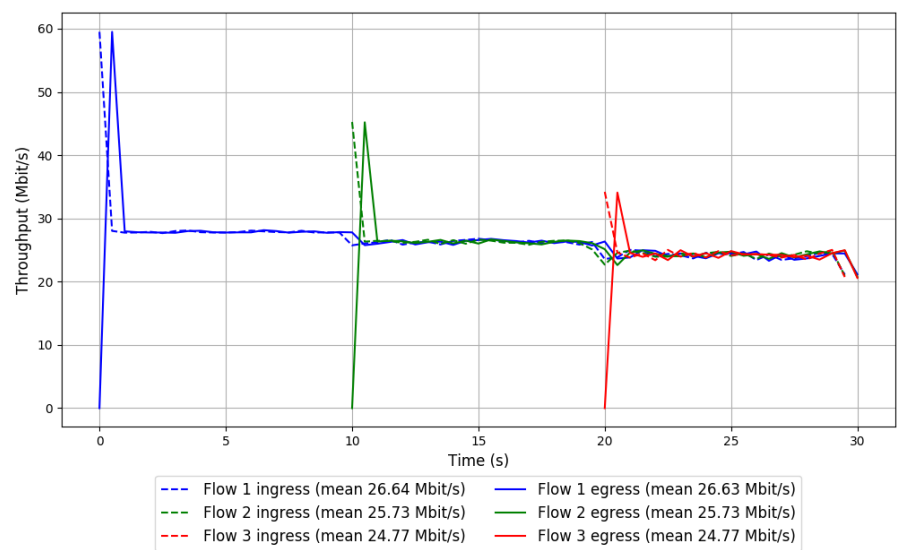


Run 3: Statistics of Indigo-Muses

Start at: 2018-09-25 17:25:04
End at: 2018-09-25 17:25:34
Local clock offset: -5.702 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-09-25 18:33:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 1.750 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 26.63 Mbit/s
95th percentile per-packet one-way delay: 1.633 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 25.73 Mbit/s
95th percentile per-packet one-way delay: 1.756 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 1.966 ms
Loss rate: 0.05%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-25 17:46:59

End at: 2018-09-25 17:47:29

Local clock offset: -6.31 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-09-25 18:34:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 1.504 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 26.01 Mbit/s

95th percentile per-packet one-way delay: 1.391 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 1.502 ms

Loss rate: 0.02%

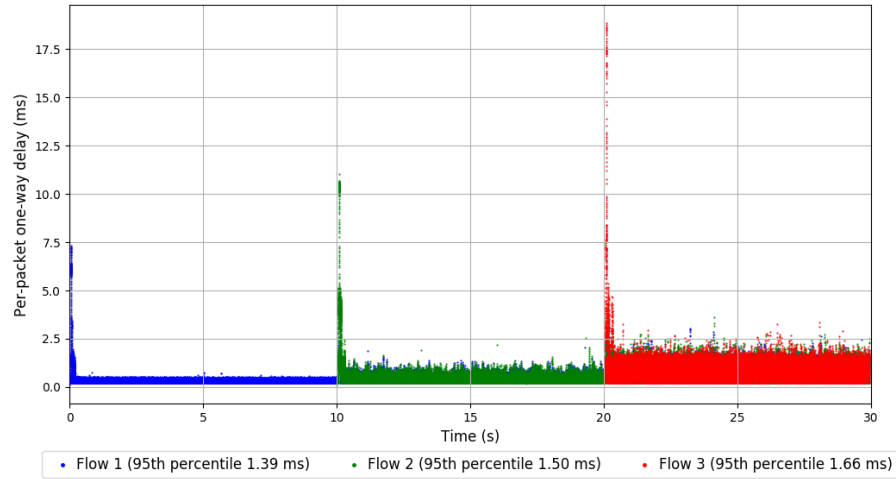
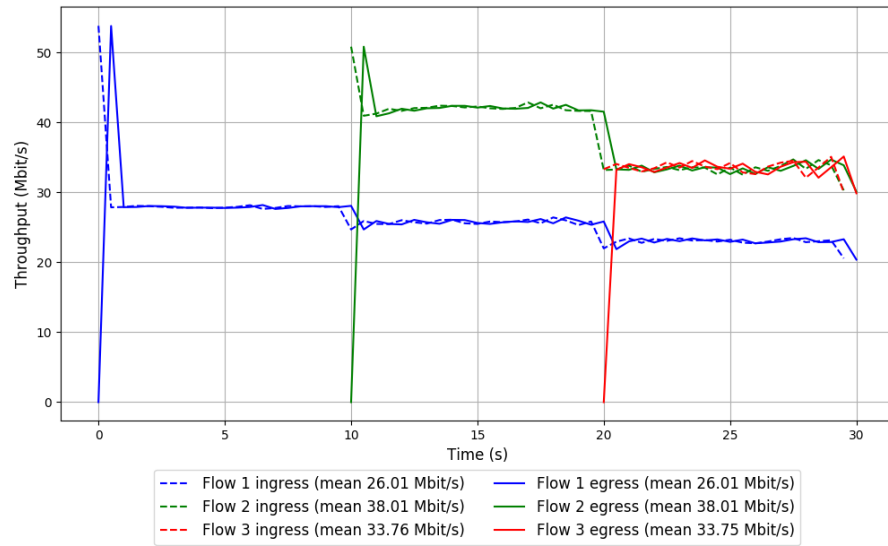
-- Flow 3:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 1.660 ms

Loss rate: 0.03%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-09-25 18:08:54

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

Local clock offset: -5.266 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-09-25 18:34:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 2.204 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 2.116 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 2.225 ms

Loss rate: 0.01%

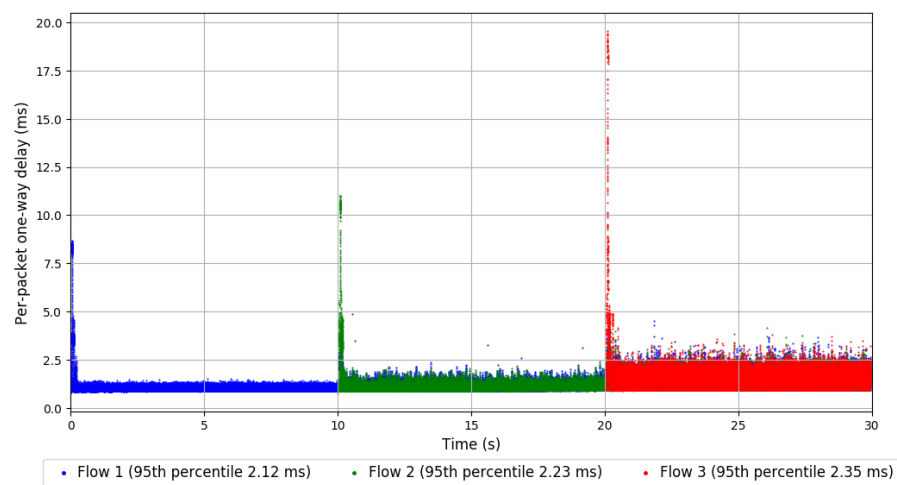
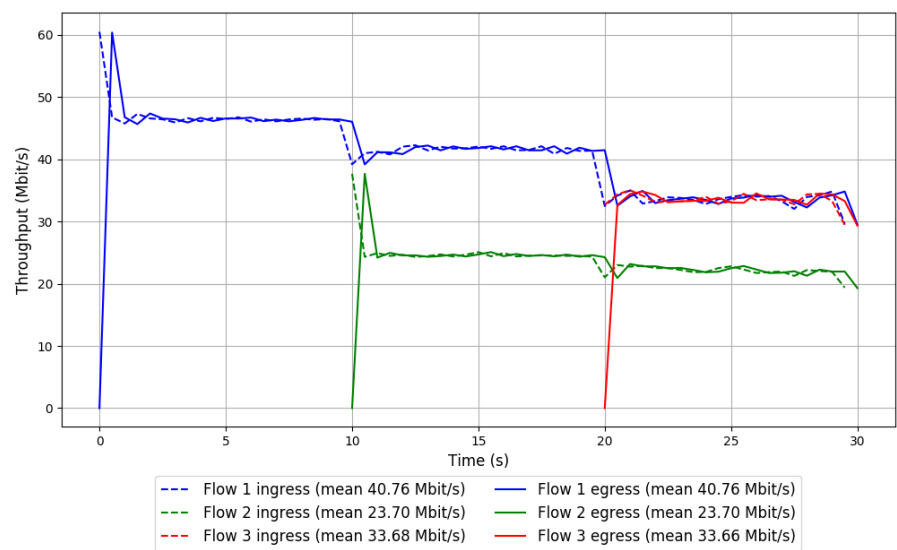
-- Flow 3:

Average throughput: 33.66 Mbit/s

95th percentile per-packet one-way delay: 2.350 ms

Loss rate: 0.03%

Run 5: Report of Indigo-Muses — Data Link

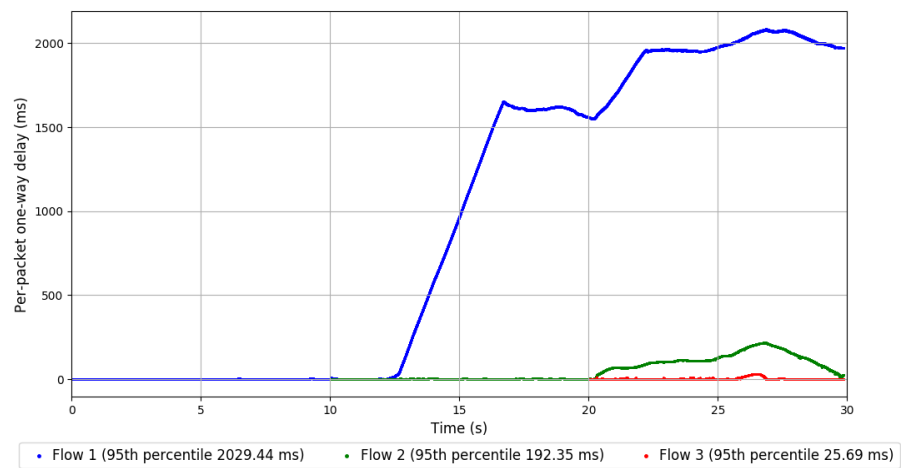
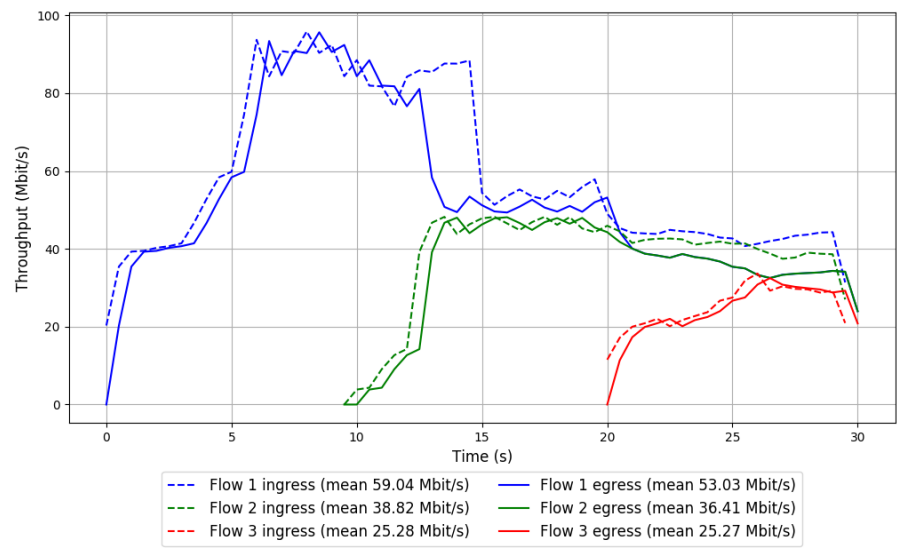


Run 1: Statistics of PCC-Allegro

Start at: 2018-09-25 16:51:40
End at: 2018-09-25 16:52:10
Local clock offset: -4.784 ms
Remote clock offset: -0.565 ms

Below is generated by plot.py at 2018-09-25 18:34:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 1992.188 ms
Loss rate: 8.19%
-- Flow 1:
Average throughput: 53.03 Mbit/s
95th percentile per-packet one-way delay: 2029.440 ms
Loss rate: 10.18%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 192.346 ms
Loss rate: 6.22%
-- Flow 3:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 25.691 ms
Loss rate: 0.16%

Run 1: Report of PCC-Allegro — Data Link

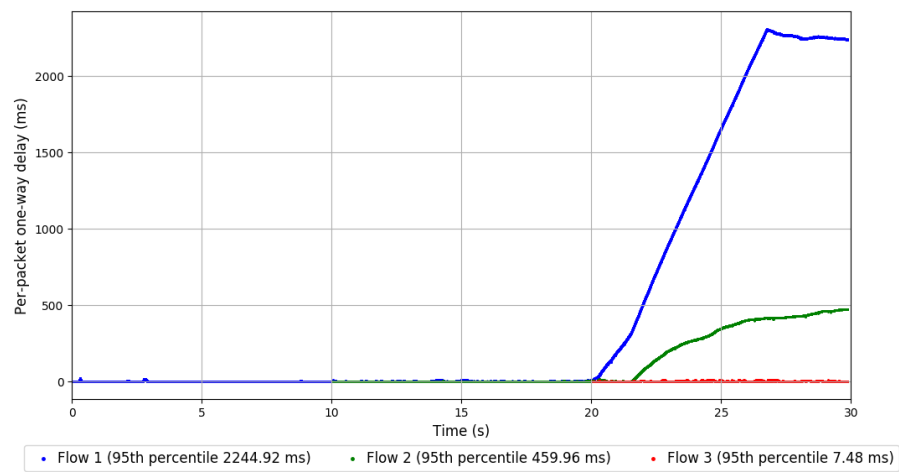
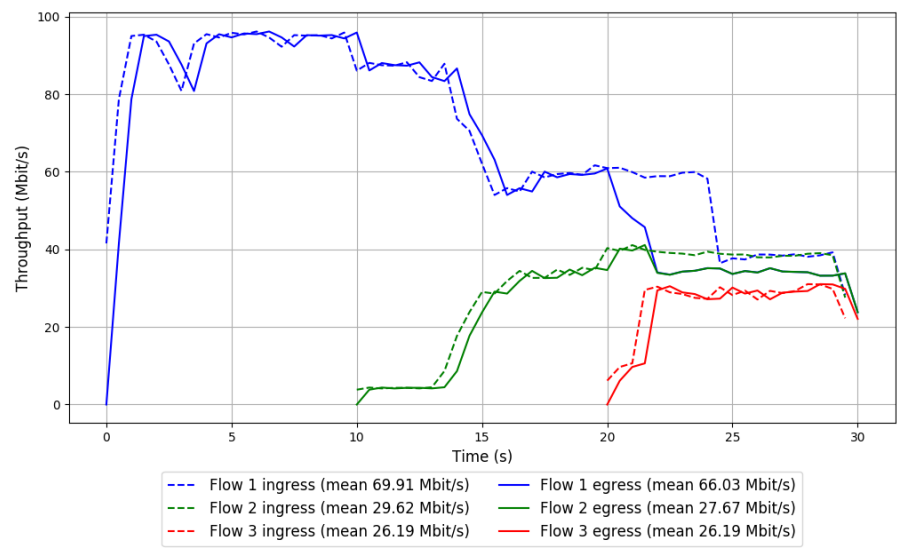


Run 2: Statistics of PCC-Allegro

Start at: 2018-09-25 17:13:35
End at: 2018-09-25 17:14:05
Local clock offset: -5.569 ms
Remote clock offset: -0.238 ms

Below is generated by plot.py at 2018-09-25 18:34:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 1906.986 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 2244.916 ms
Loss rate: 5.56%
-- Flow 2:
Average throughput: 27.67 Mbit/s
95th percentile per-packet one-way delay: 459.959 ms
Loss rate: 6.61%
-- Flow 3:
Average throughput: 26.19 Mbit/s
95th percentile per-packet one-way delay: 7.480 ms
Loss rate: 0.04%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-09-25 17:35:29

End at: 2018-09-25 17:35:59

Local clock offset: -6.009 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-09-25 18:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 1598.079 ms

Loss rate: 4.07%

-- Flow 1:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 2038.145 ms

Loss rate: 5.00%

-- Flow 2:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 4.657 ms

Loss rate: 0.04%

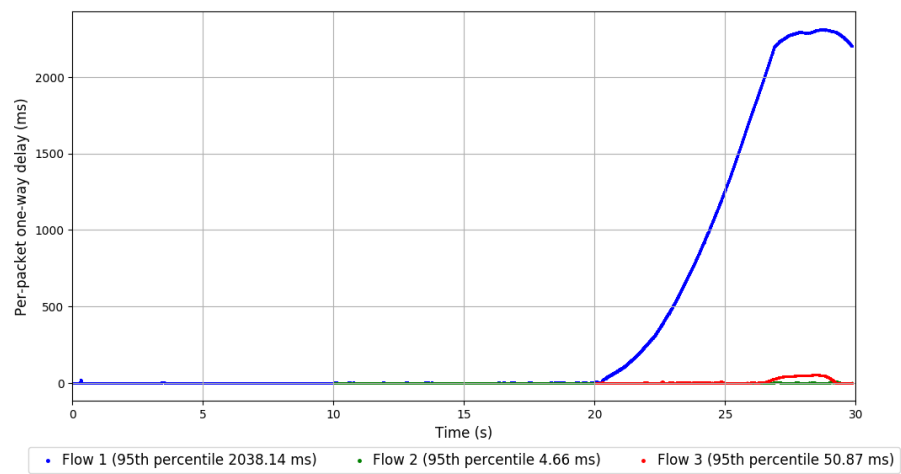
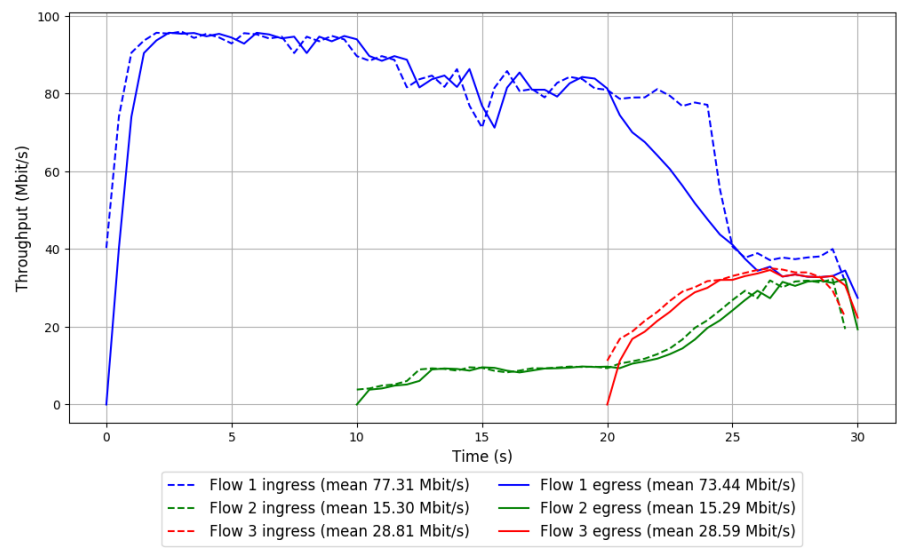
-- Flow 3:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 0.80%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

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

End at: 2018-09-25 17:57:55

Local clock offset: -6.053 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2018-09-25 18:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.48 Mbit/s

95th percentile per-packet one-way delay: 13.369 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 7.861 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.83 Mbit/s

95th percentile per-packet one-way delay: 43.303 ms

Loss rate: 0.18%

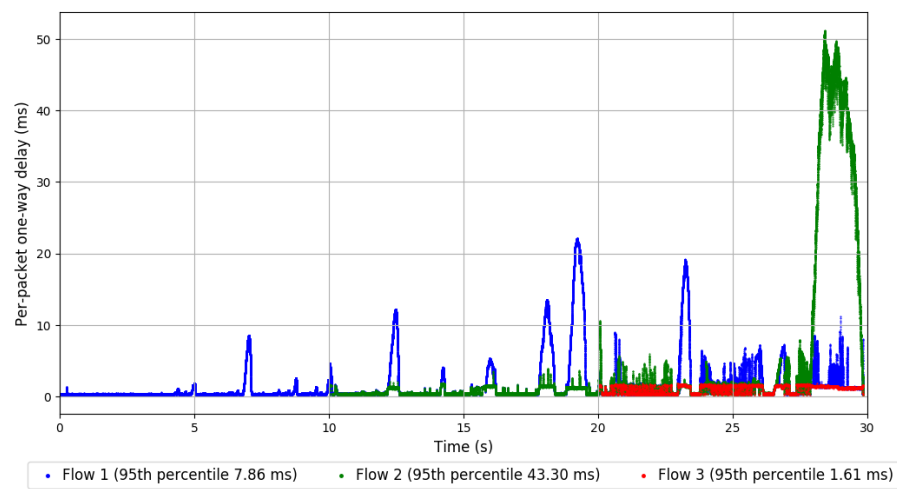
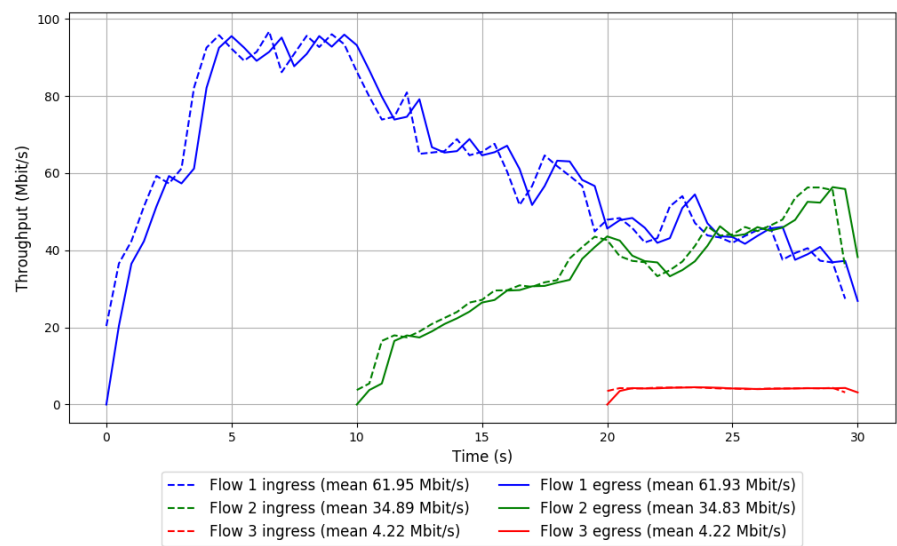
-- Flow 3:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 1.606 ms

Loss rate: 0.06%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-09-25 18:19:20

End at: 2018-09-25 18:19:50

Local clock offset: -7.065 ms

Remote clock offset: 0.472 ms

Below is generated by plot.py at 2018-09-25 18:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 1580.609 ms

Loss rate: 7.57%

-- Flow 1:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 1738.965 ms

Loss rate: 7.56%

-- Flow 2:

Average throughput: 26.16 Mbit/s

95th percentile per-packet one-way delay: 890.105 ms

Loss rate: 11.03%

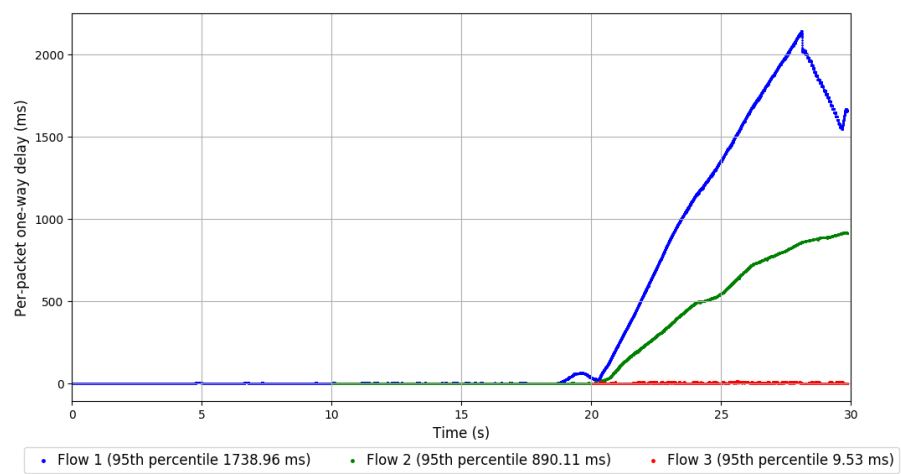
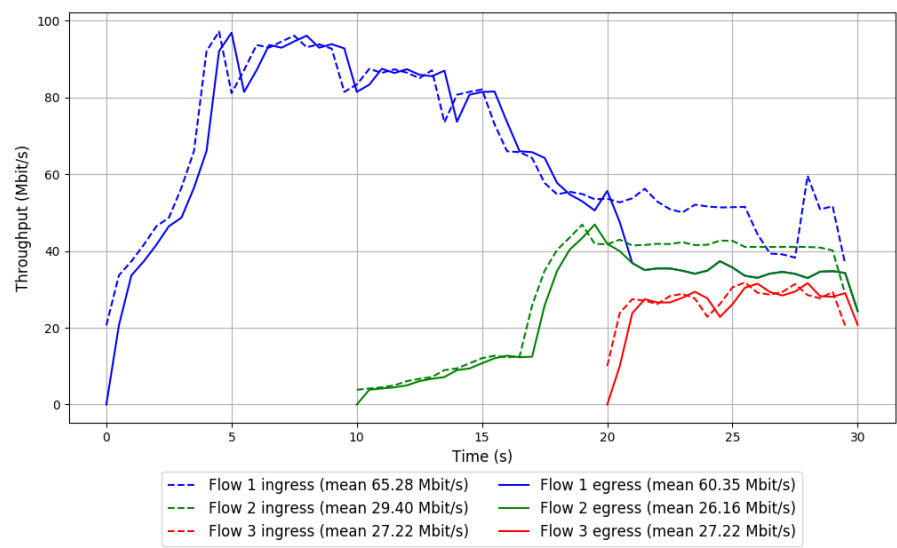
-- Flow 3:

Average throughput: 27.22 Mbit/s

95th percentile per-packet one-way delay: 9.526 ms

Loss rate: 0.05%

Run 5: Report of PCC-Allegro — Data Link

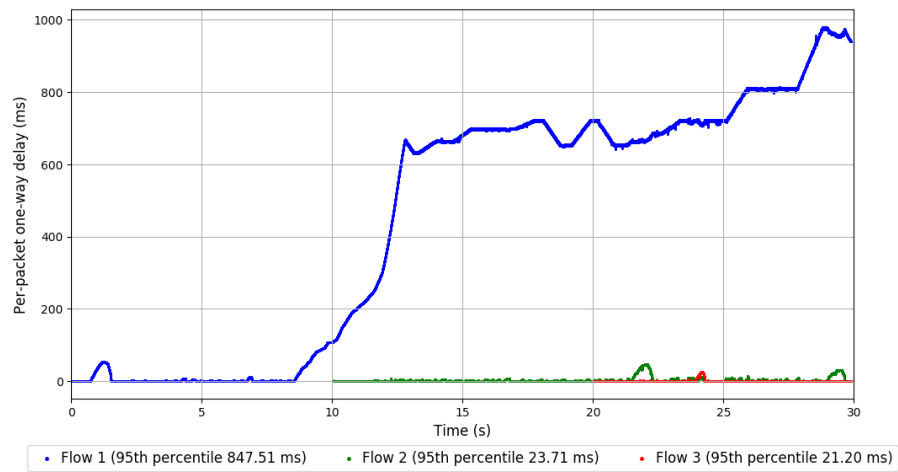
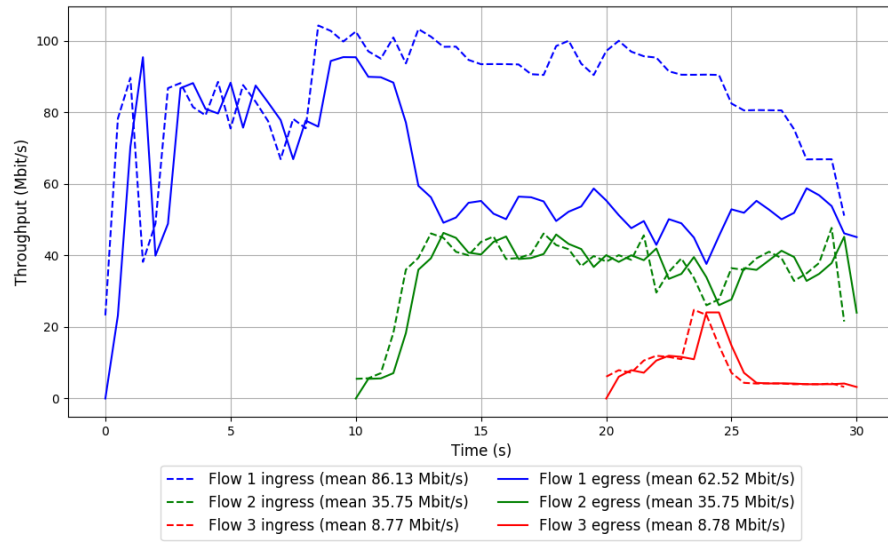


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-25 16:55:07
End at: 2018-09-25 16:55:37
Local clock offset: -5.367 ms
Remote clock offset: -0.56 ms

# Below is generated by plot.py at 2018-09-25 18:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 809.892 ms
Loss rate: 20.94%
-- Flow 1:
Average throughput: 62.52 Mbit/s
95th percentile per-packet one-way delay: 847.510 ms
Loss rate: 27.42%
-- Flow 2:
Average throughput: 35.75 Mbit/s
95th percentile per-packet one-way delay: 23.707 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 21.204 ms
Loss rate: 0.03%
```

Run 1: Report of PCC-Expr — Data Link

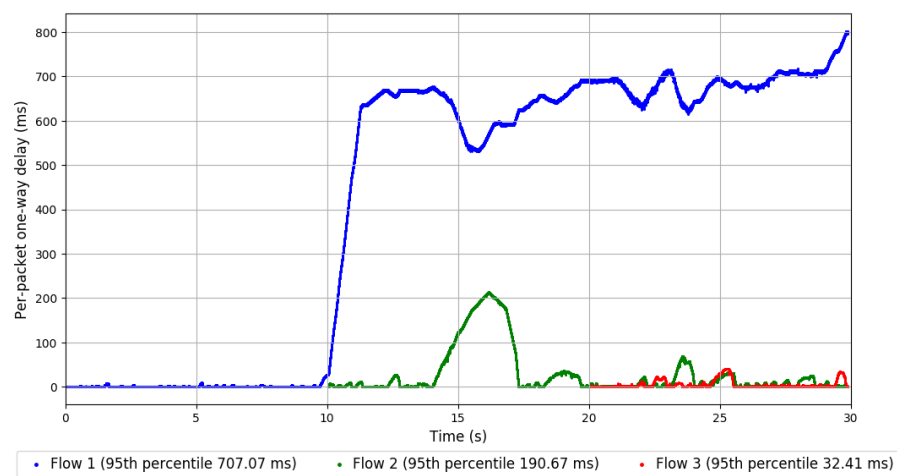
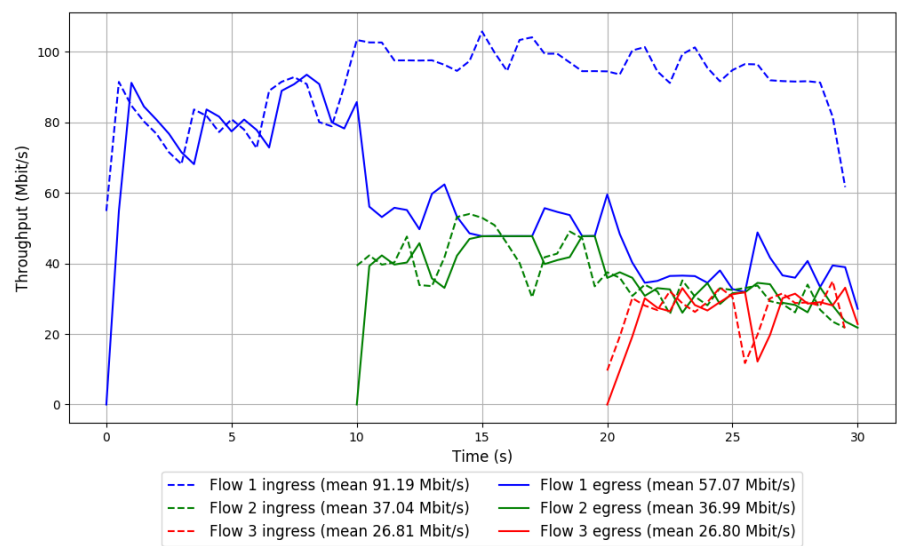


Run 2: Statistics of PCC-Expr

Start at: 2018-09-25 17:17:02
End at: 2018-09-25 17:17:32
Local clock offset: -5.968 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-09-25 18:36:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 692.568 ms
Loss rate: 27.41%
-- Flow 1:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 707.068 ms
Loss rate: 37.42%
-- Flow 2:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 190.669 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 32.408 ms
Loss rate: 0.09%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-09-25 17:38:56

End at: 2018-09-25 17:39:26

Local clock offset: -6.815 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-09-25 18:36:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 823.418 ms

Loss rate: 21.05%

-- Flow 1:

Average throughput: 66.15 Mbit/s

95th percentile per-packet one-way delay: 826.035 ms

Loss rate: 26.03%

-- Flow 2:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 630.232 ms

Loss rate: 4.97%

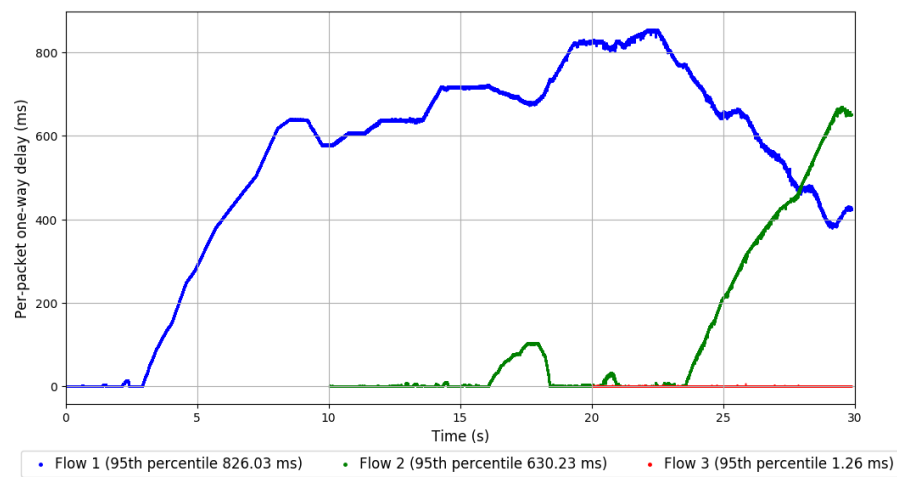
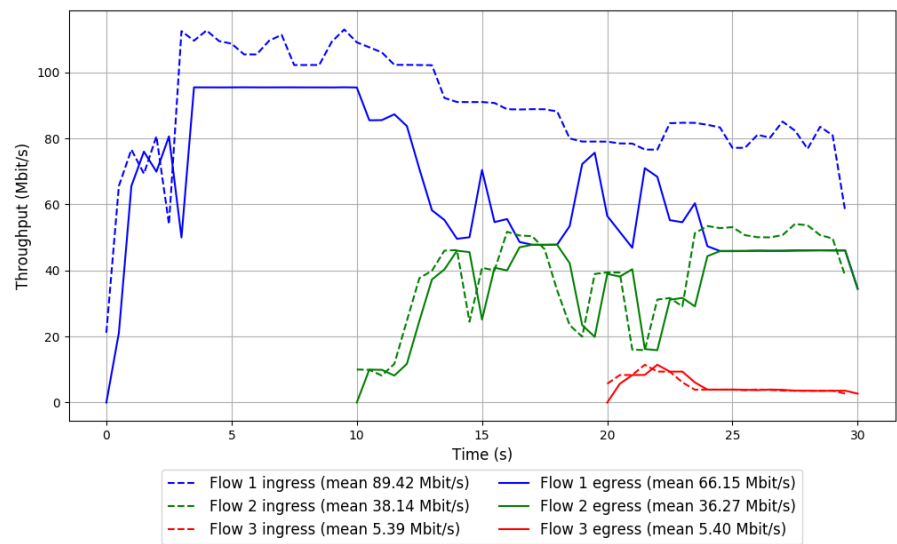
-- Flow 3:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.02%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-09-25 18:00:51

End at: 2018-09-25 18:01:21

Local clock offset: -5.317 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-09-25 18:36:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 690.842 ms

Loss rate: 16.10%

-- Flow 1:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 692.861 ms

Loss rate: 18.79%

-- Flow 2:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 2.029 ms

Loss rate: 0.02%

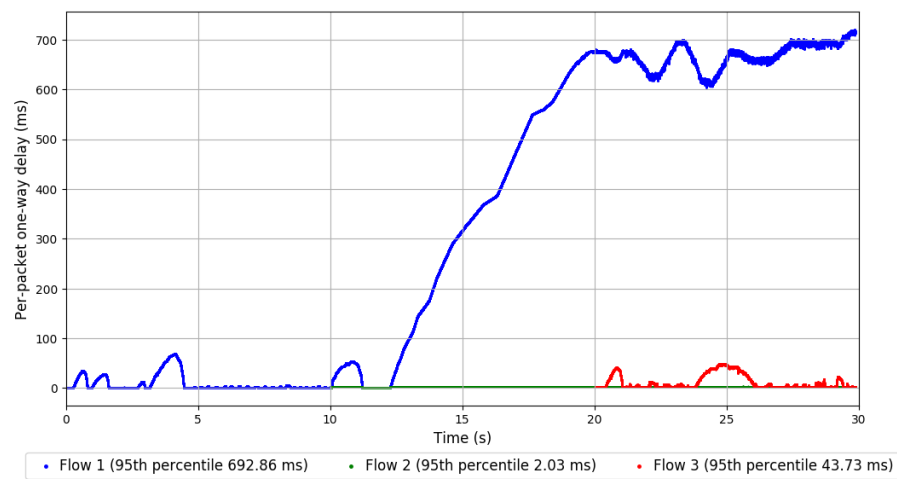
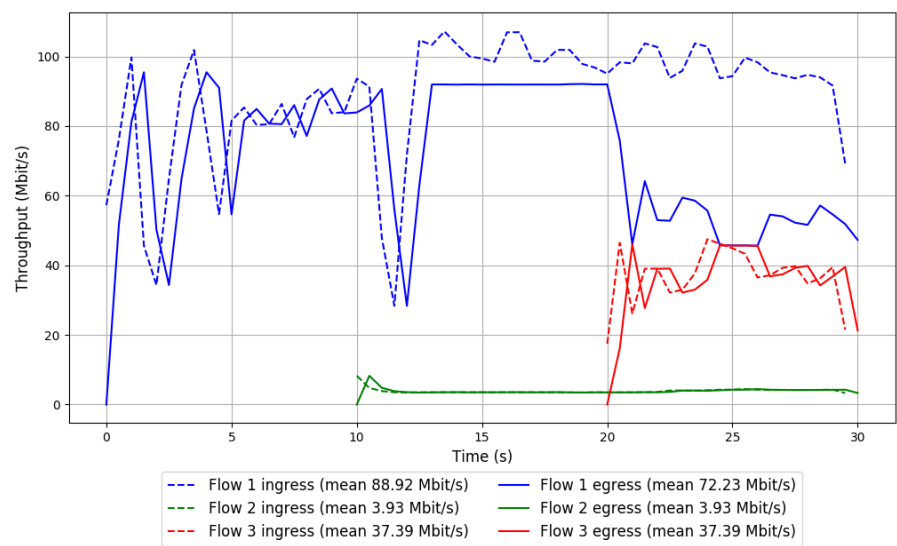
-- Flow 3:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 43.731 ms

Loss rate: 0.11%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-09-25 18:22:47

End at: 2018-09-25 18:23:17

Local clock offset: -6.344 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2018-09-25 18:36:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 963.790 ms

Loss rate: 18.47%

-- Flow 1:

Average throughput: 70.43 Mbit/s

95th percentile per-packet one-way delay: 968.209 ms

Loss rate: 23.18%

-- Flow 2:

Average throughput: 16.66 Mbit/s

95th percentile per-packet one-way delay: 5.606 ms

Loss rate: 0.00%

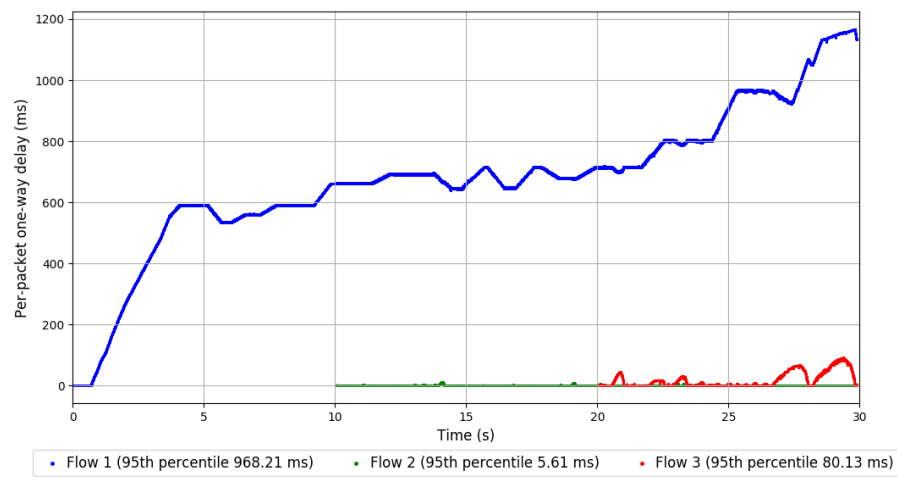
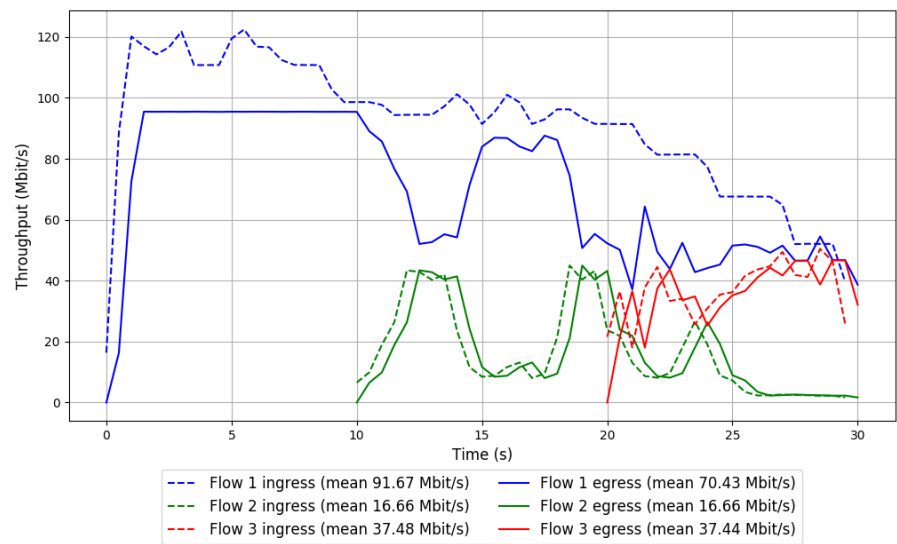
-- Flow 3:

Average throughput: 37.44 Mbit/s

95th percentile per-packet one-way delay: 80.127 ms

Loss rate: 0.17%

Run 5: Report of PCC-Expr — Data Link

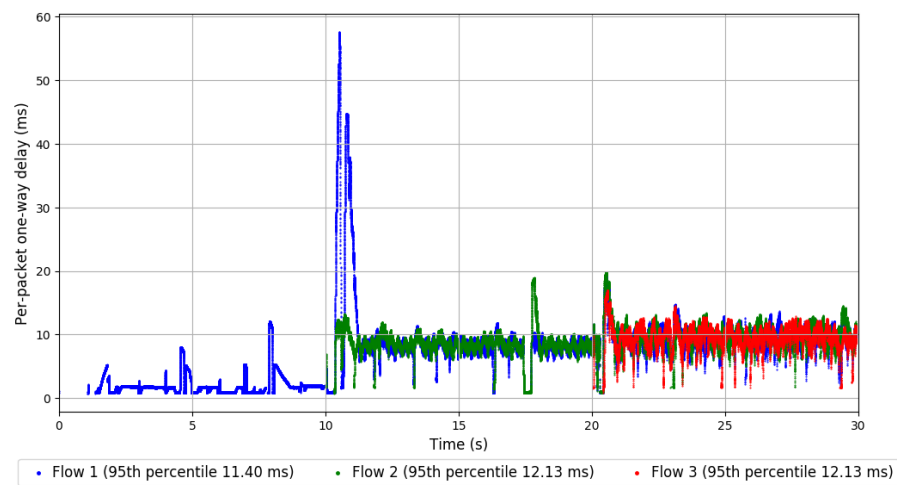
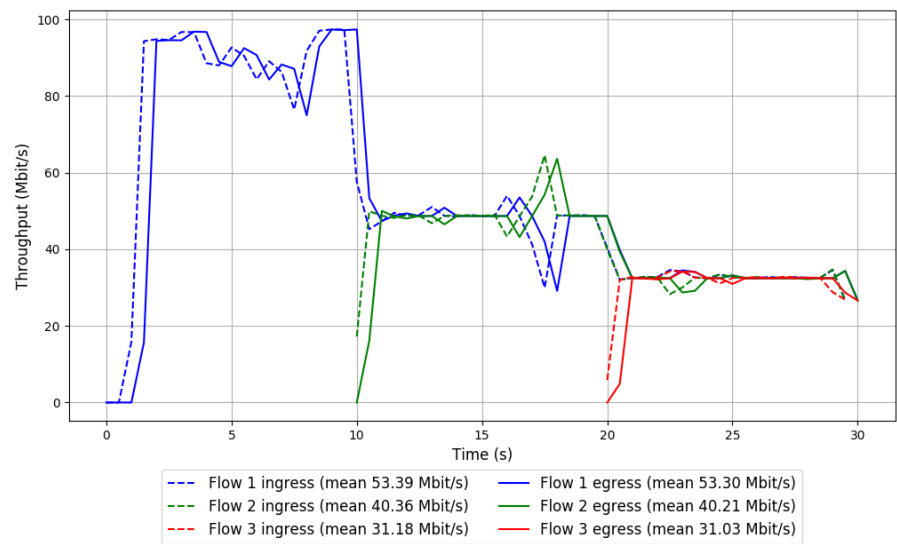


Run 1: Statistics of QUIC Cubic

Start at: 2018-09-25 16:53:58
End at: 2018-09-25 16:54:28
Local clock offset: -4.716 ms
Remote clock offset: -0.588 ms

Below is generated by plot.py at 2018-09-25 18:36:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 11.845 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 11.401 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.21 Mbit/s
95th percentile per-packet one-way delay: 12.126 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 12.135 ms
Loss rate: 0.50%

Run 1: Report of QUIC Cubic — Data Link

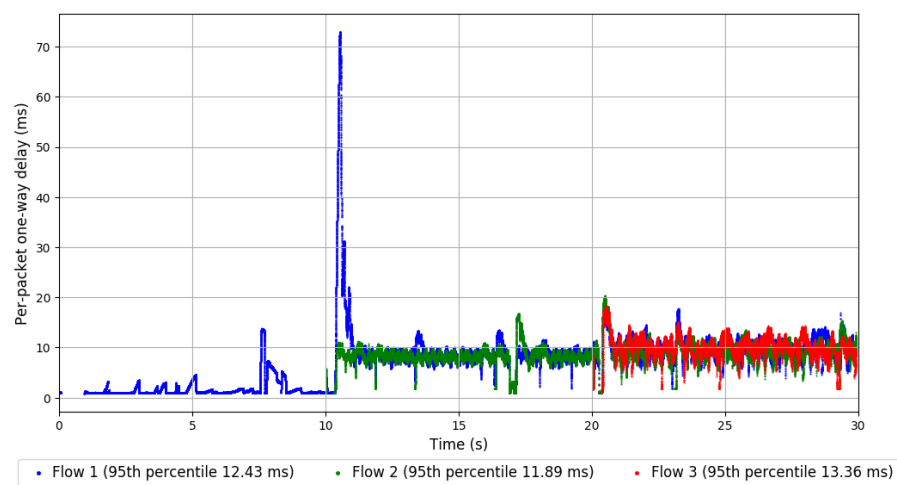
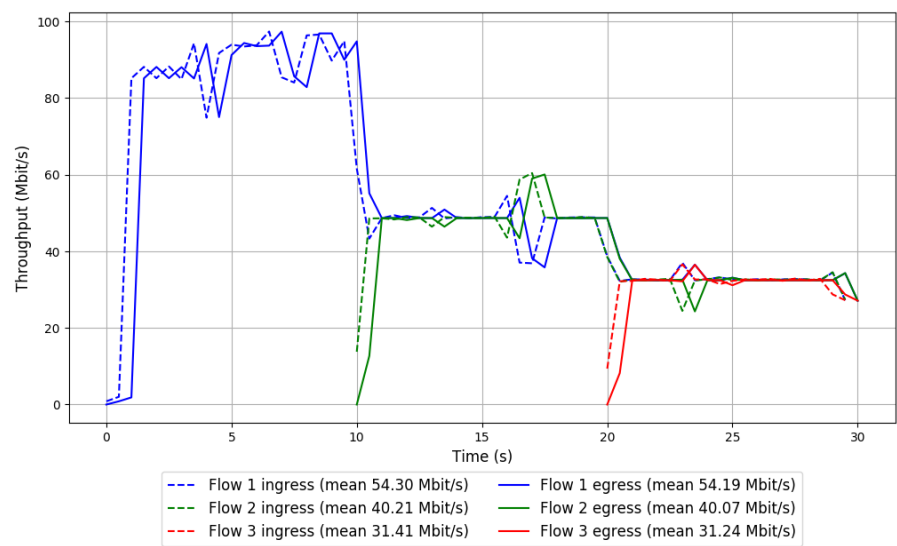


Run 2: Statistics of QUIC Cubic

Start at: 2018-09-25 17:15:53
End at: 2018-09-25 17:16:23
Local clock offset: -5.071 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2018-09-25 18:36:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 12.556 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 12.431 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 11.889 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 31.24 Mbit/s
95th percentile per-packet one-way delay: 13.364 ms
Loss rate: 0.55%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-09-25 17:37:47

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

Local clock offset: -6.803 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-09-25 18:36:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 11.120 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 11.066 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 10.638 ms

Loss rate: 0.35%

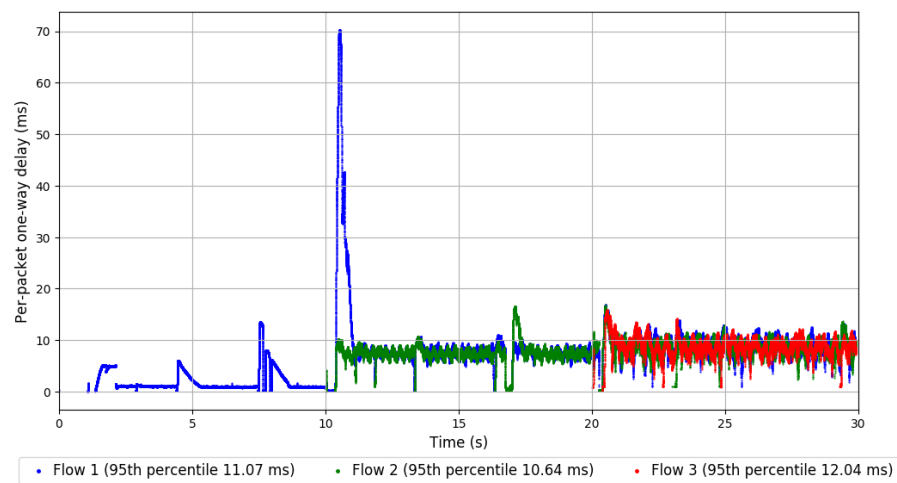
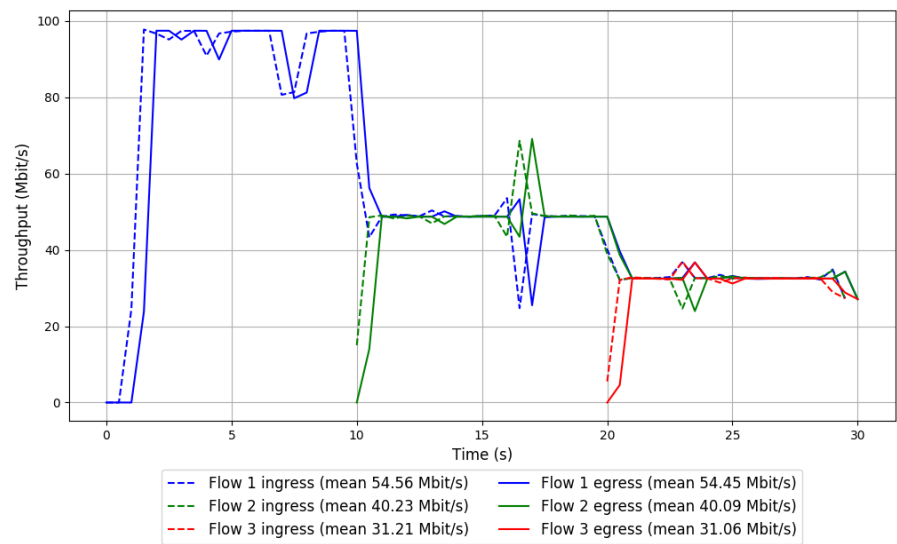
-- Flow 3:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 12.044 ms

Loss rate: 0.51%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-09-25 17:59:42

End at: 2018-09-25 18:00:12

Local clock offset: -6.136 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-09-25 18:36:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 11.059 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 10.554 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 11.260 ms

Loss rate: 0.33%

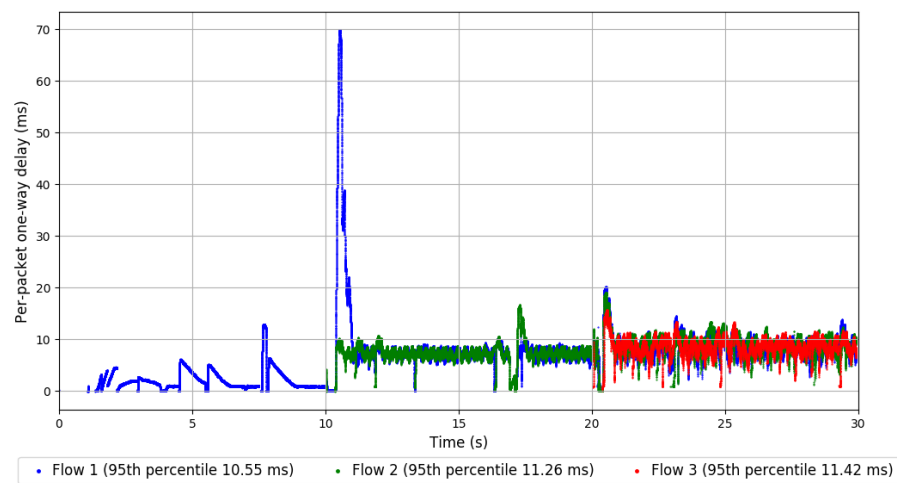
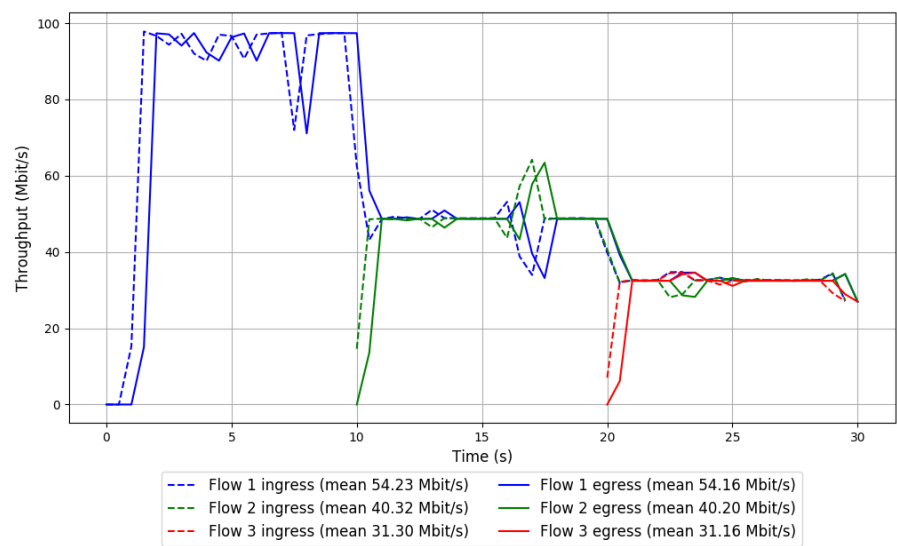
-- Flow 3:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 11.417 ms

Loss rate: 0.49%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-09-25 18:21:38

End at: 2018-09-25 18:22:08

Local clock offset: -6.281 ms

Remote clock offset: 0.562 ms

Below is generated by plot.py at 2018-09-25 18:36:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.78 Mbit/s

95th percentile per-packet one-way delay: 12.336 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 11.599 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 12.619 ms

Loss rate: 0.40%

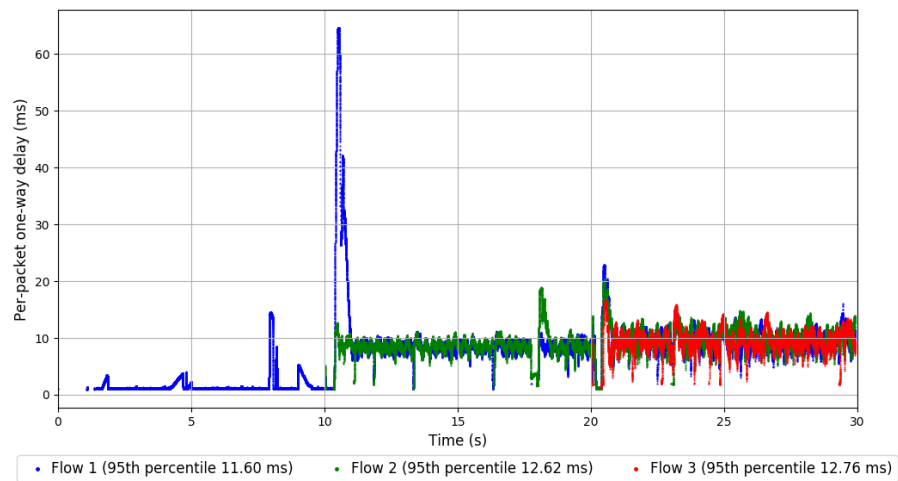
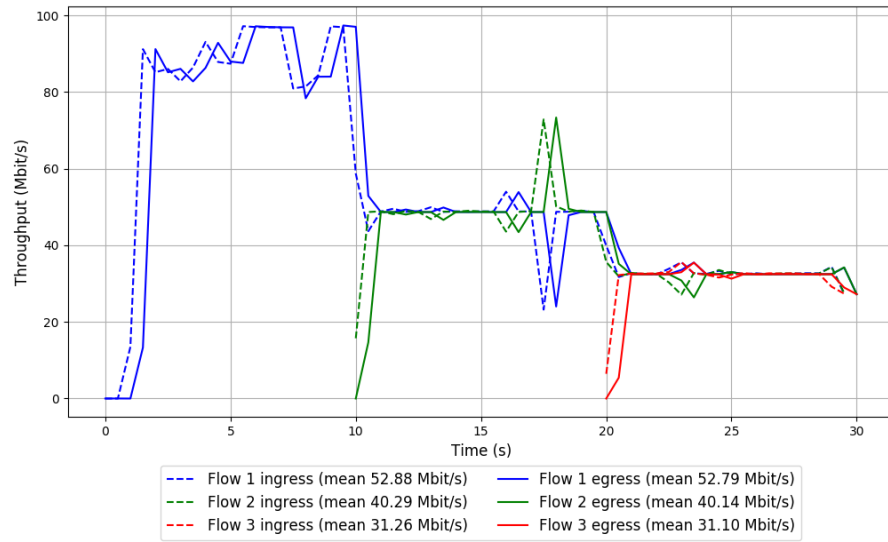
-- Flow 3:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 12.756 ms

Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link

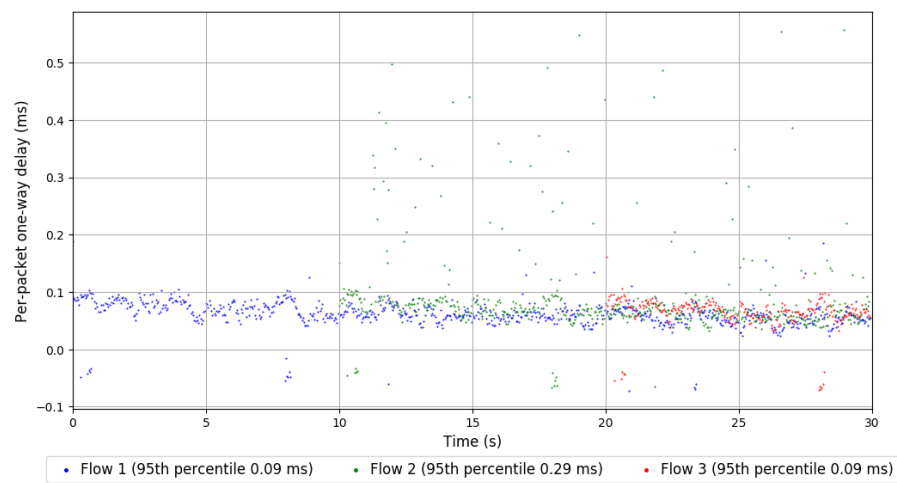
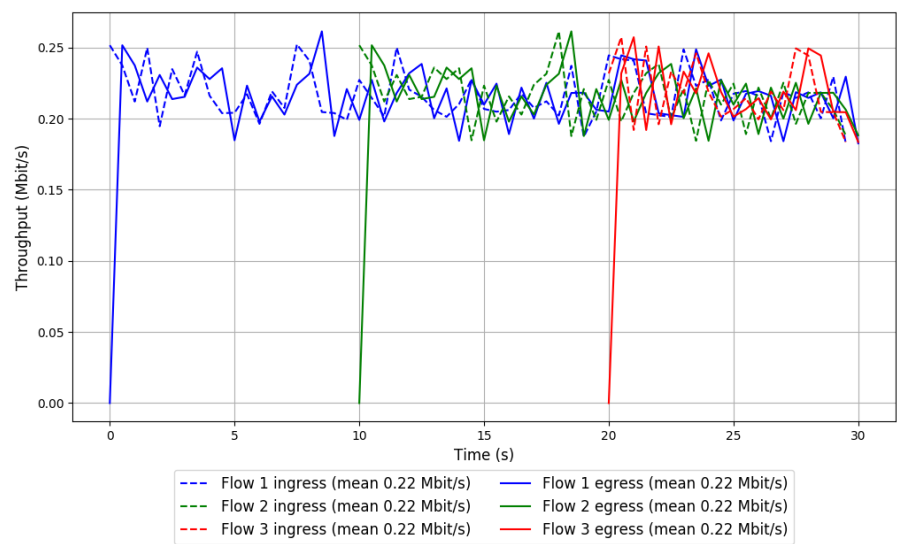


Run 1: Statistics of SReAM

Start at: 2018-09-25 16:49:25
End at: 2018-09-25 16:49:55
Local clock offset: -5.776 ms
Remote clock offset: -0.668 ms

Below is generated by plot.py at 2018-09-25 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.092 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.290 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.091 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

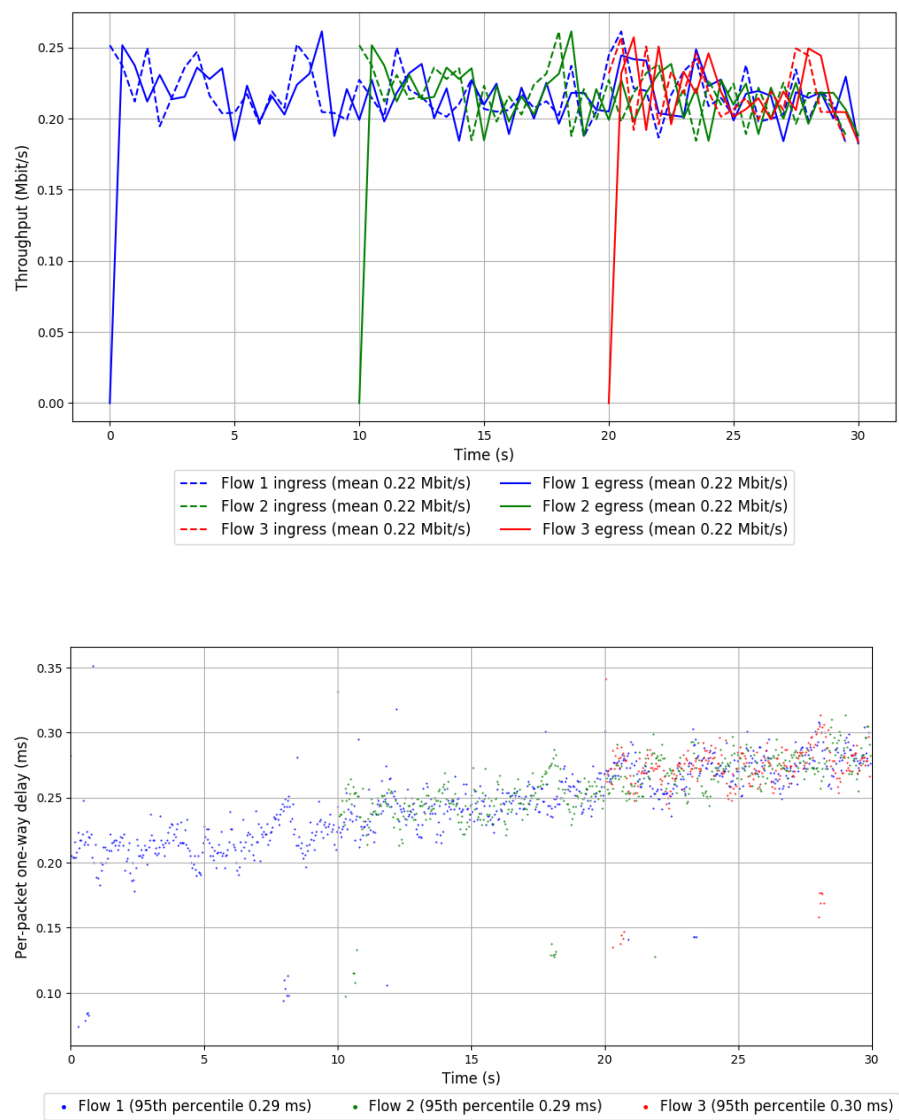


Run 2: Statistics of SReAM

Start at: 2018-09-25 17:11:19
End at: 2018-09-25 17:11:49
Local clock offset: -5.208 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-09-25 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.287 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.291 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.297 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

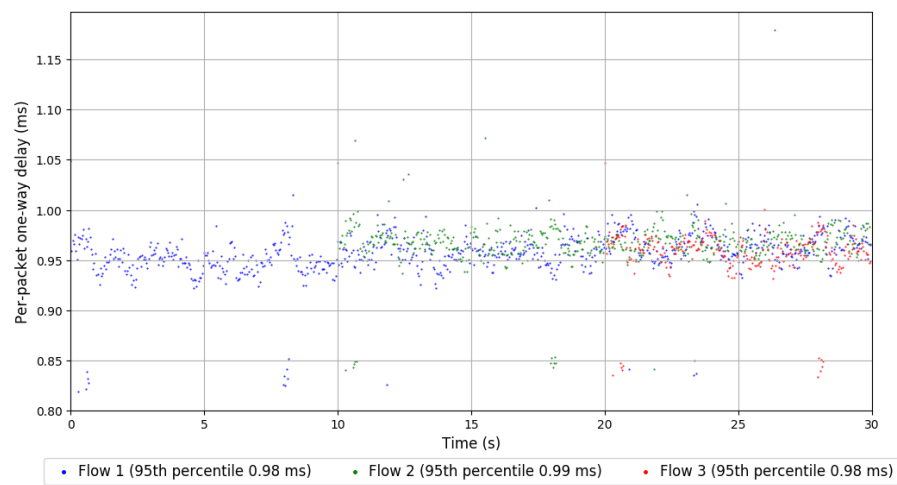
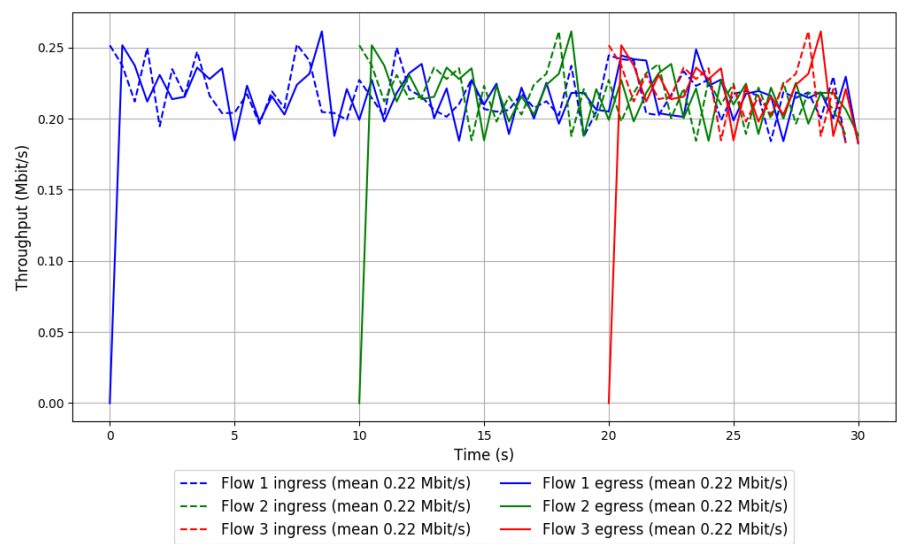


Run 3: Statistics of SReAM

Start at: 2018-09-25 17:33:13
End at: 2018-09-25 17:33:43
Local clock offset: -6.024 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-09-25 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.990 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.981 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

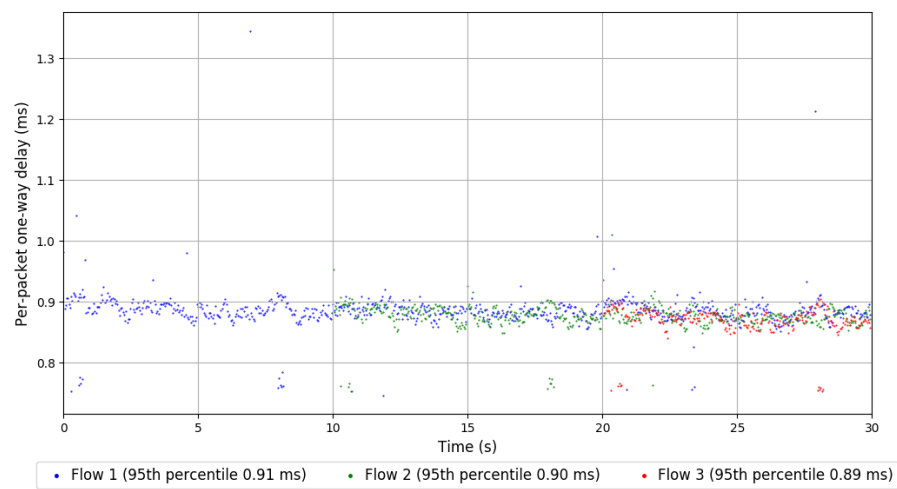
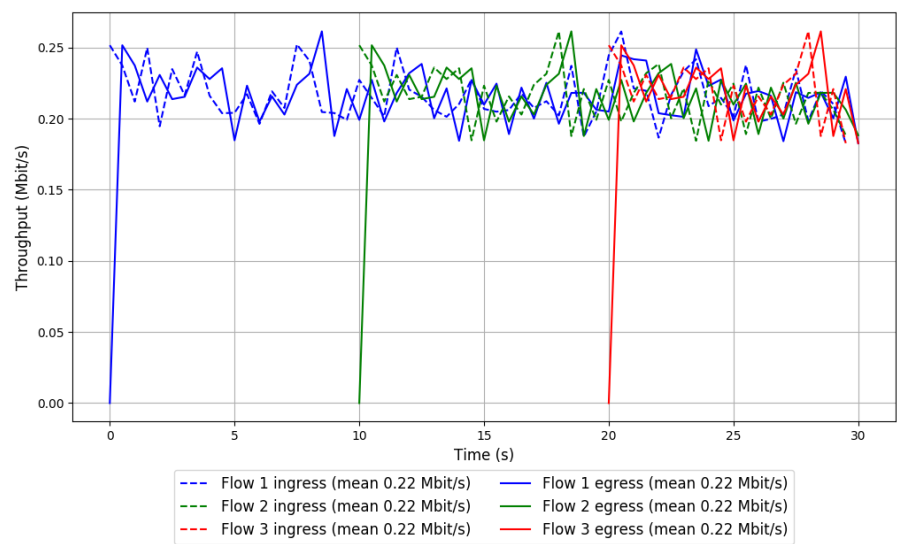


Run 4: Statistics of SReAM

Start at: 2018-09-25 17:55:09
End at: 2018-09-25 17:55:39
Local clock offset: -5.391 ms
Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-09-25 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.908 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.898 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.894 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

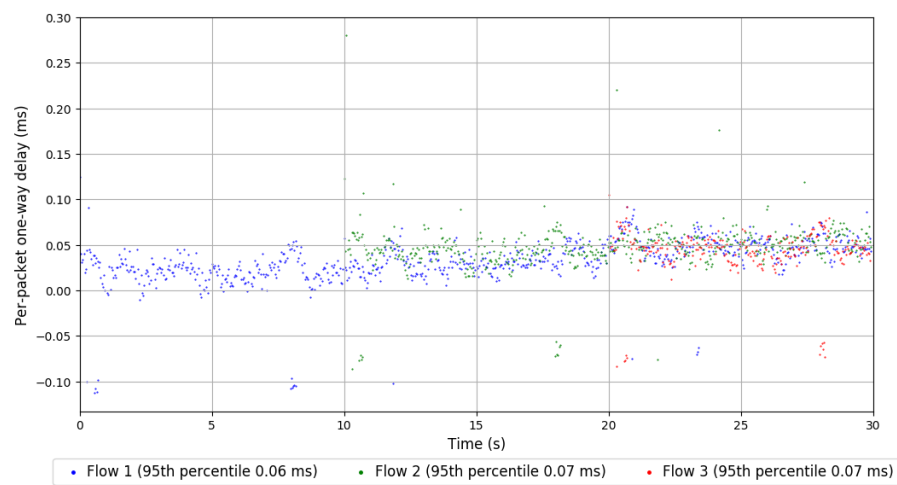
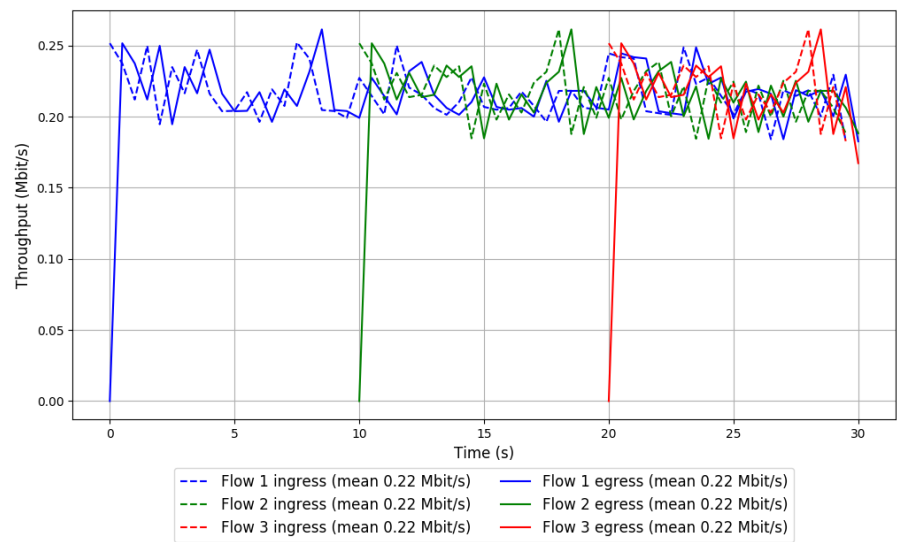


Run 5: Statistics of SReAM

Start at: 2018-09-25 18:17:04
End at: 2018-09-25 18:17:34
Local clock offset: -6.981 ms
Remote clock offset: 0.551 ms

Below is generated by plot.py at 2018-09-25 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.068 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.063 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.071 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.071 ms
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

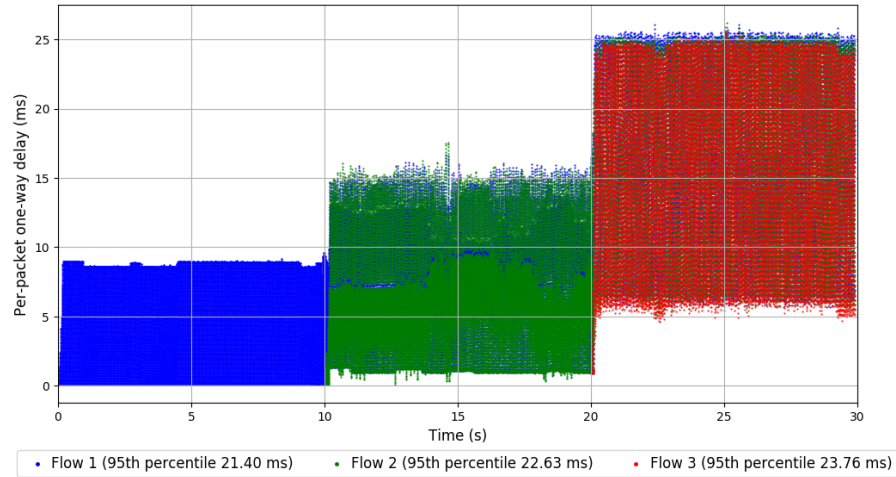
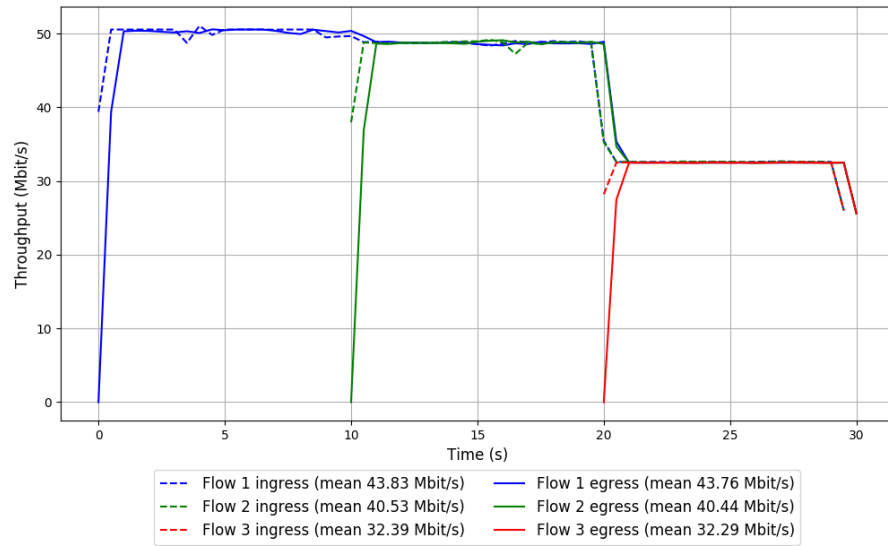


Run 1: Statistics of Sprout

Start at: 2018-09-25 16:40:07
End at: 2018-09-25 16:40:37
Local clock offset: -6.83 ms
Remote clock offset: -0.791 ms

Below is generated by plot.py at 2018-09-25 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.33 Mbit/s
95th percentile per-packet one-way delay: 22.613 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 43.76 Mbit/s
95th percentile per-packet one-way delay: 21.400 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 22.629 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 23.757 ms
Loss rate: 0.22%

Run 1: Report of Sprout — Data Link

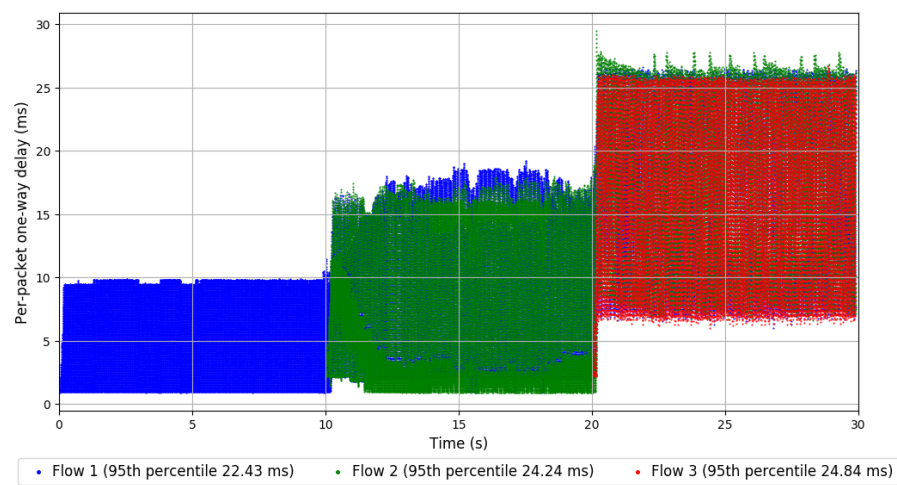
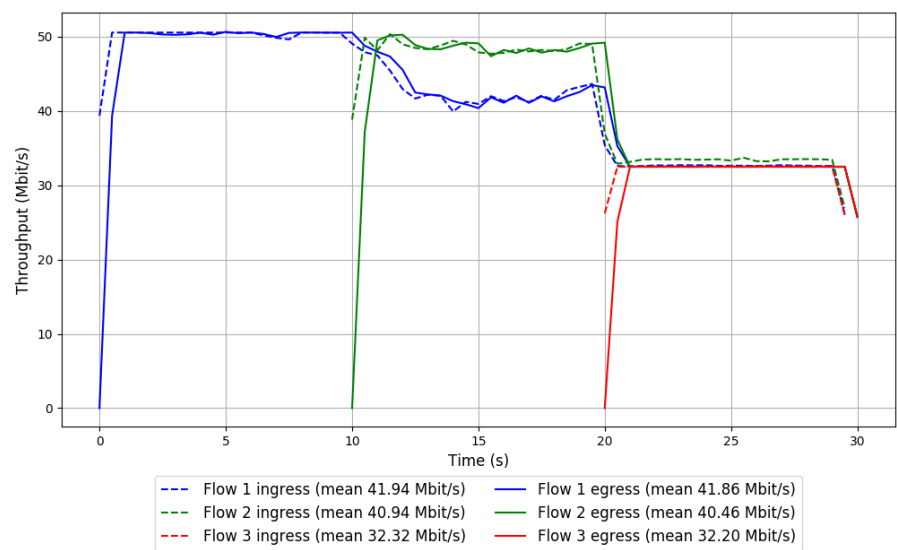


Run 2: Statistics of Sprout

Start at: 2018-09-25 17:02:02
End at: 2018-09-25 17:02:32
Local clock offset: -4.318 ms
Remote clock offset: -0.449 ms

Below is generated by plot.py at 2018-09-25 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 23.826 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 41.86 Mbit/s
95th percentile per-packet one-way delay: 22.433 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 24.236 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 24.839 ms
Loss rate: 0.33%

Run 2: Report of Sprout — Data Link

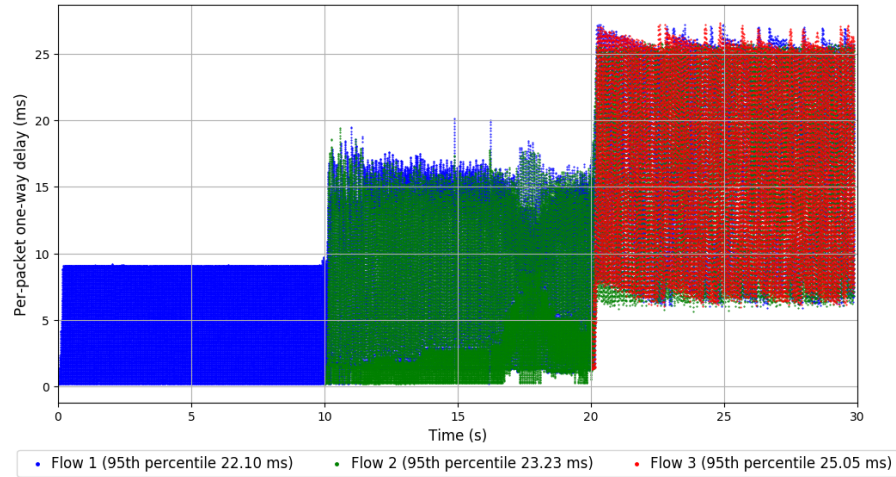
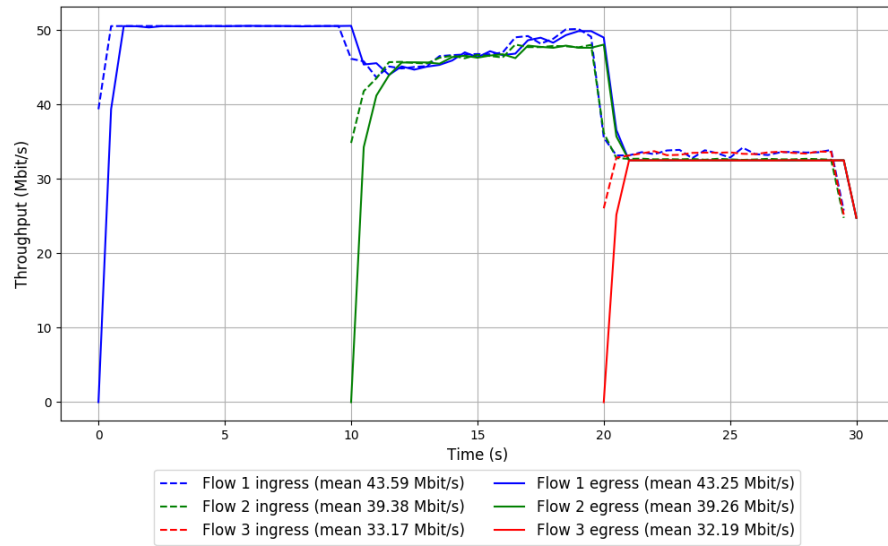


Run 3: Statistics of Sprout

Start at: 2018-09-25 17:23:57
End at: 2018-09-25 17:24:27
Local clock offset: -6.449 ms
Remote clock offset: -0.163 ms

```
# Below is generated by plot.py at 2018-09-25 18:37:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.98 Mbit/s
95th percentile per-packet one-way delay: 23.443 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 43.25 Mbit/s
95th percentile per-packet one-way delay: 22.104 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 23.230 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 25.049 ms
Loss rate: 2.80%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-09-25 17:45:52

End at: 2018-09-25 17:46:22

Local clock offset: -6.368 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-09-25 18:37:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 23.311 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 43.94 Mbit/s

95th percentile per-packet one-way delay: 21.959 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 22.995 ms

Loss rate: 0.17%

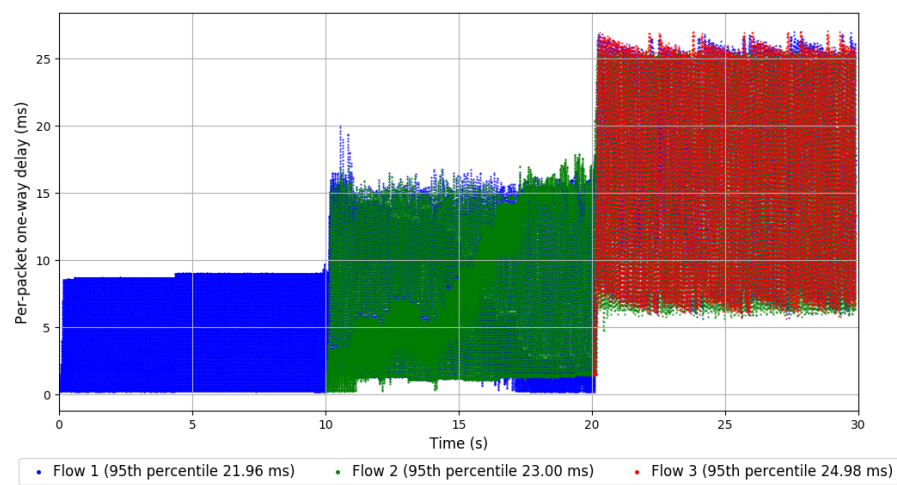
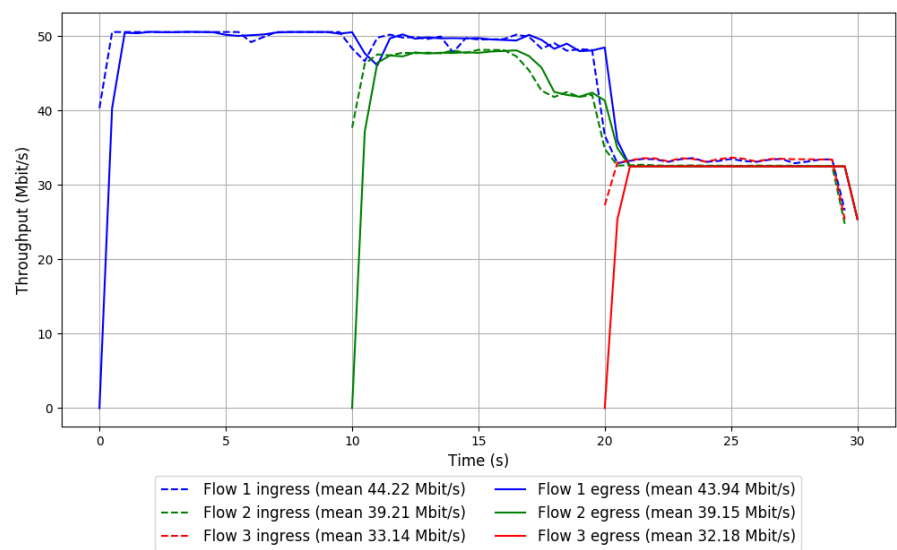
-- Flow 3:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 24.977 ms

Loss rate: 2.79%

Run 4: Report of Sprout — Data Link

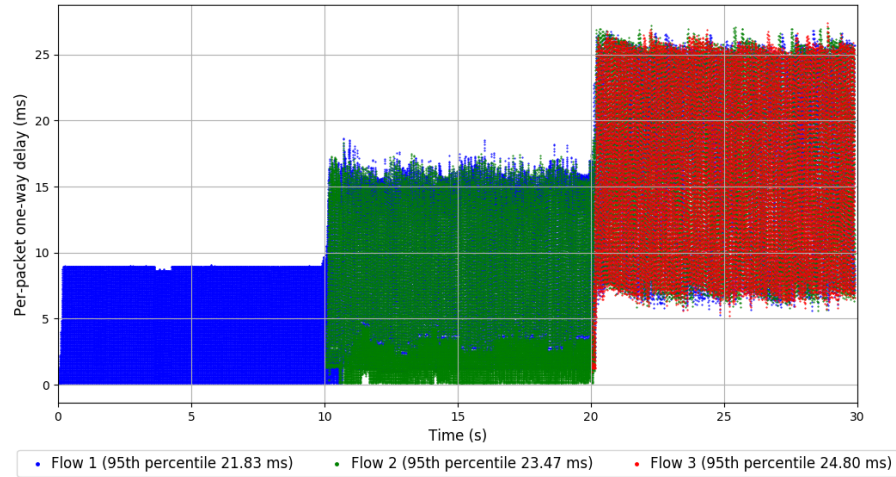
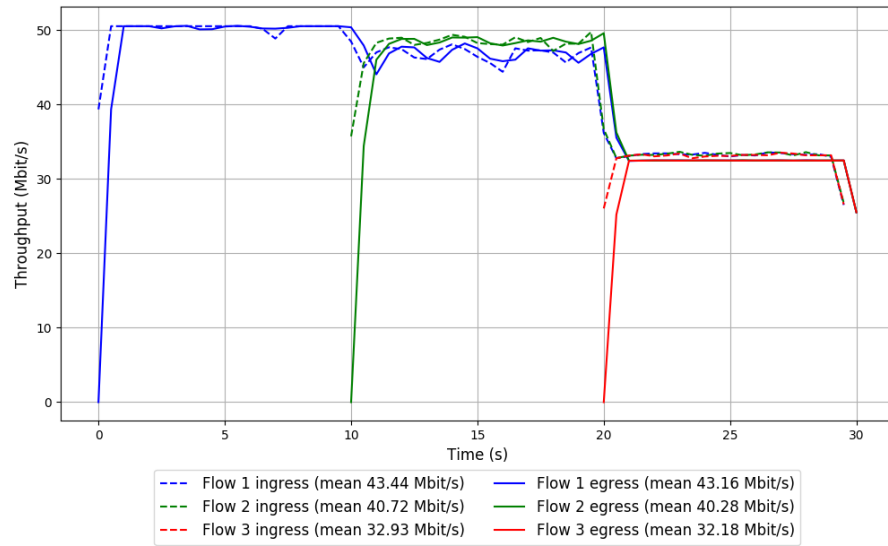


Run 5: Statistics of Sprout

Start at: 2018-09-25 18:07:46
End at: 2018-09-25 18:08:16
Local clock offset: -6.098 ms
Remote clock offset: 0.458 ms

```
# Below is generated by plot.py at 2018-09-25 18:37:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: 23.376 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 21.827 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 23.471 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 24.805 ms
Loss rate: 2.19%
```

Run 5: Report of Sprout — Data Link

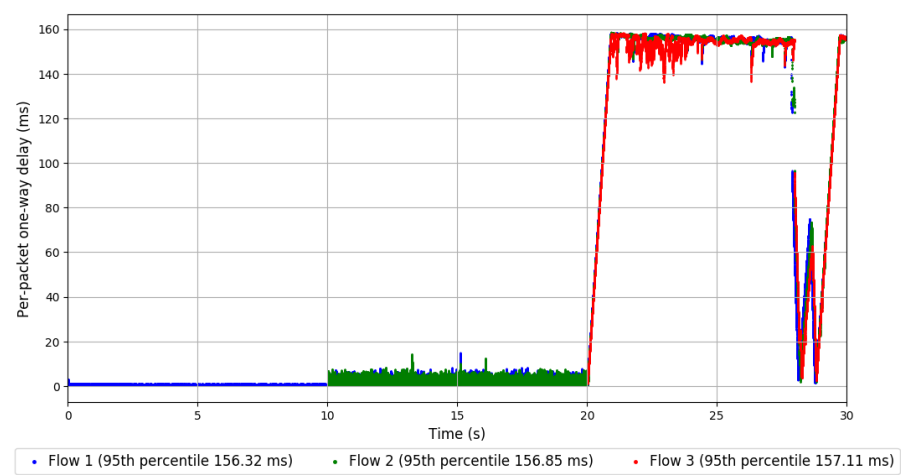
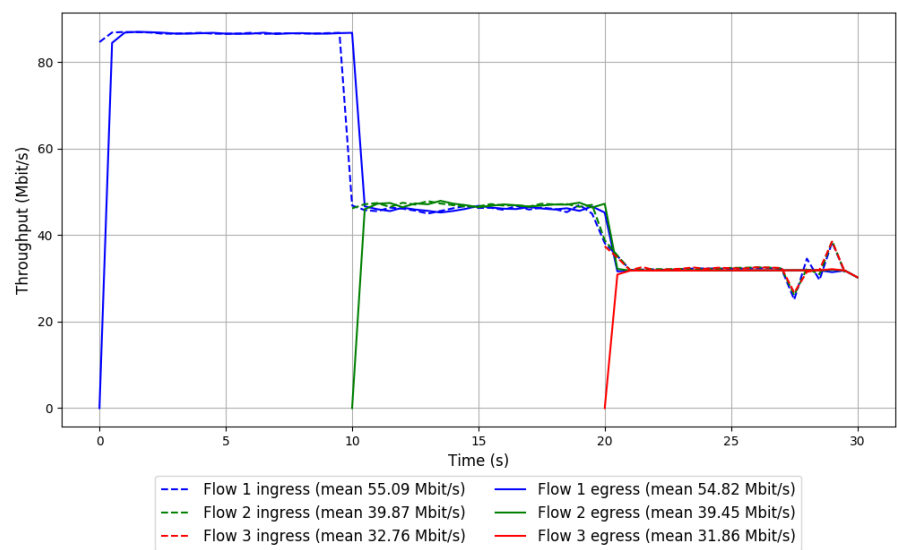


Run 1: Statistics of TaoVA-100x

Start at: 2018-09-25 16:43:31
End at: 2018-09-25 16:44:01
Local clock offset: -5.522 ms
Remote clock offset: -0.753 ms

Below is generated by plot.py at 2018-09-25 18:38:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 156.645 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 54.82 Mbit/s
95th percentile per-packet one-way delay: 156.323 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 156.851 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 157.109 ms
Loss rate: 2.77%

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

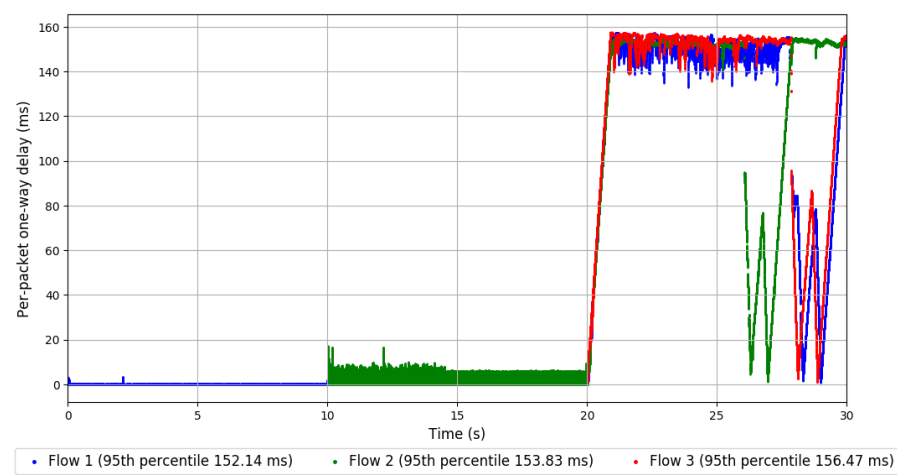
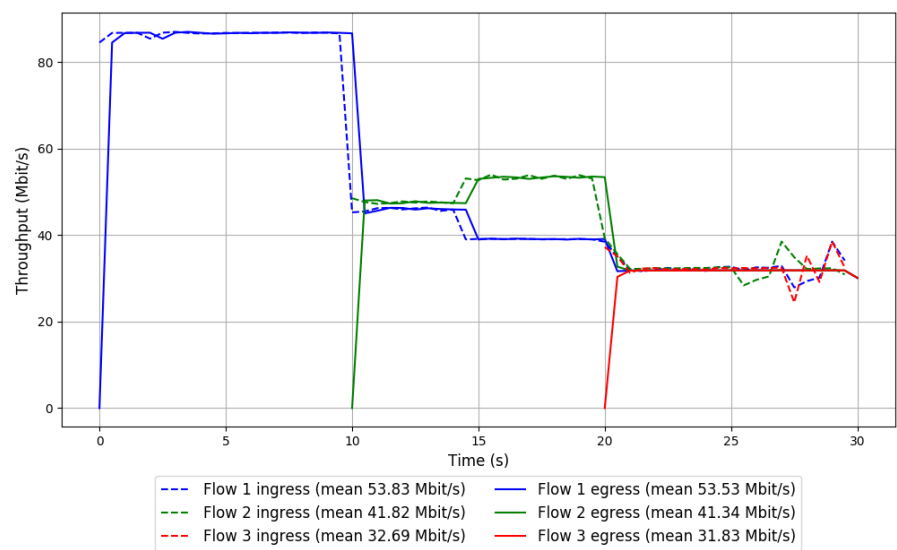


Run 2: Statistics of TaoVA-100x

Start at: 2018-09-25 17:05:26
End at: 2018-09-25 17:05:56
Local clock offset: -4.95 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2018-09-25 18:38:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 154.525 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 53.53 Mbit/s
95th percentile per-packet one-way delay: 152.140 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 41.34 Mbit/s
95th percentile per-packet one-way delay: 153.826 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 156.471 ms
Loss rate: 2.66%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-09-25 17:27:20

End at: 2018-09-25 17:27:50

Local clock offset: -6.595 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-09-25 18:38:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.39 Mbit/s

95th percentile per-packet one-way delay: 6.027 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 5.770 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.52 Mbit/s

95th percentile per-packet one-way delay: 3.754 ms

Loss rate: 0.03%

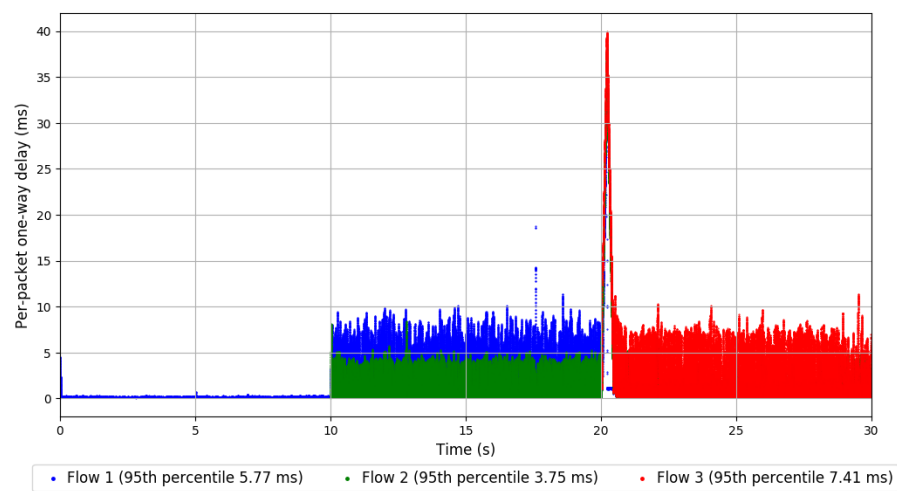
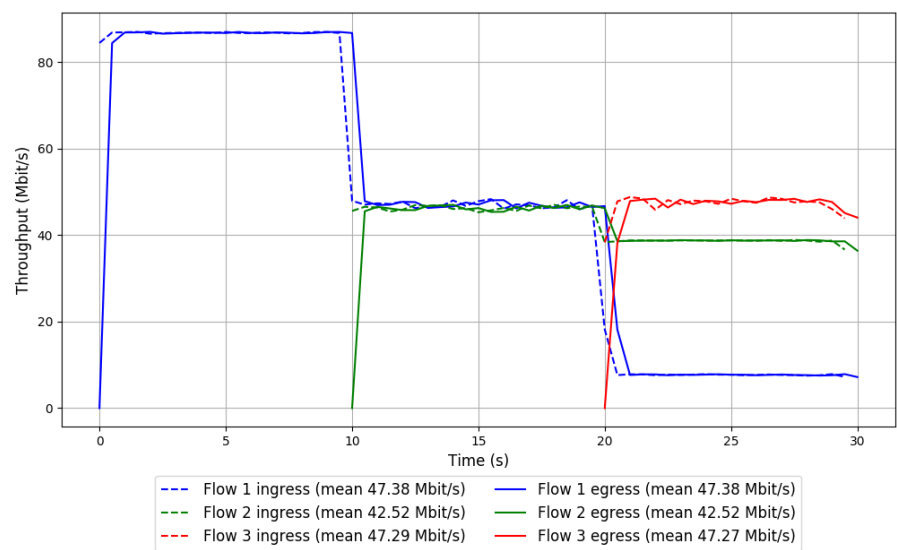
-- Flow 3:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 7.412 ms

Loss rate: 0.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-09-25 17:49:16

End at: 2018-09-25 17:49:46

Local clock offset: -5.459 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-09-25 18:38:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 155.432 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 153.843 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 155.537 ms

Loss rate: 1.08%

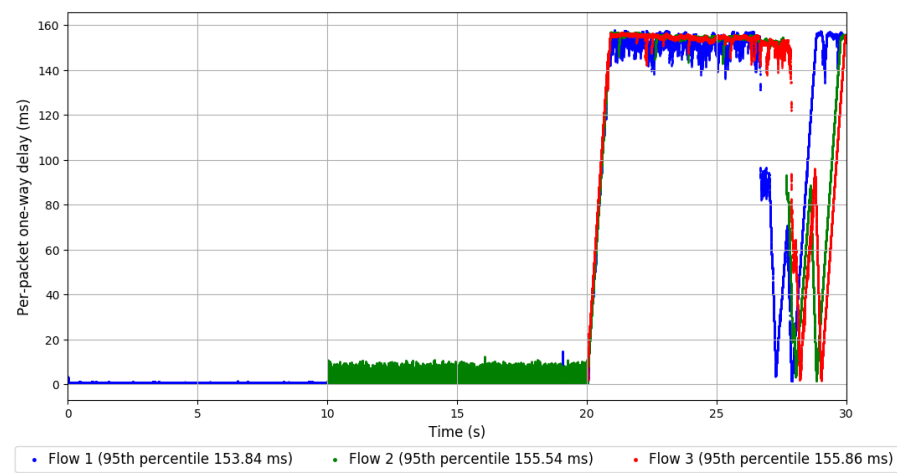
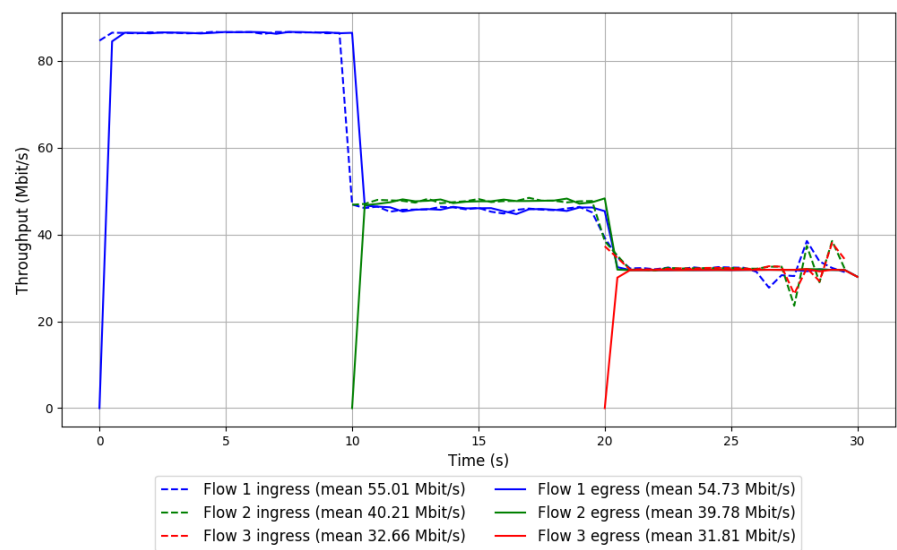
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 155.857 ms

Loss rate: 2.69%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-09-25 18:11:11

End at: 2018-09-25 18:11:41

Local clock offset: -6.416 ms

Remote clock offset: 0.543 ms

Below is generated by plot.py at 2018-09-25 18:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 154.833 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 153.409 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 156.438 ms

Loss rate: 0.98%

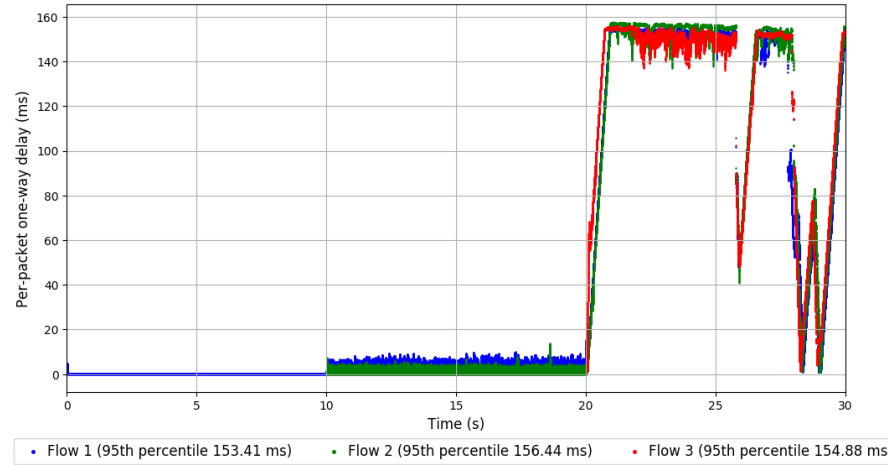
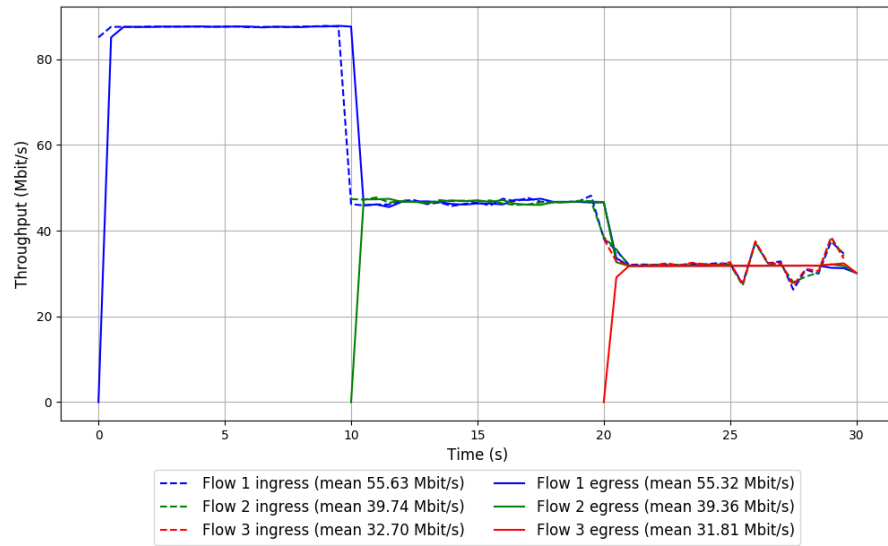
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 154.881 ms

Loss rate: 2.77%

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

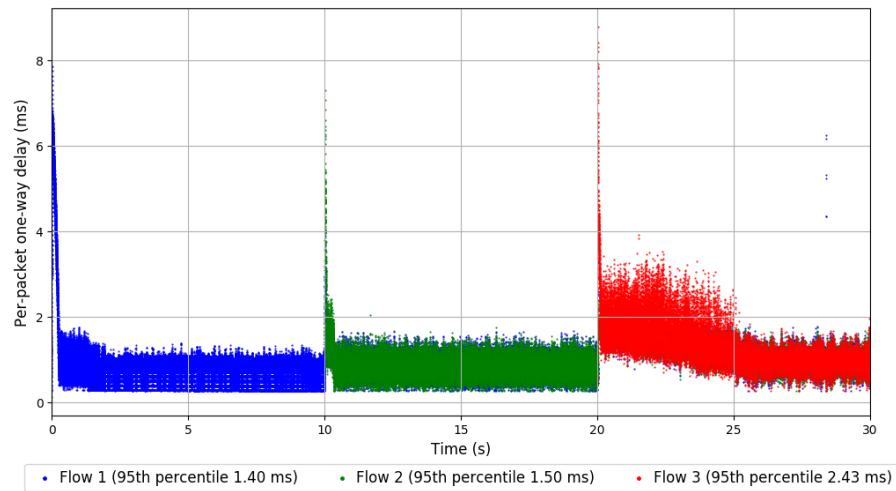
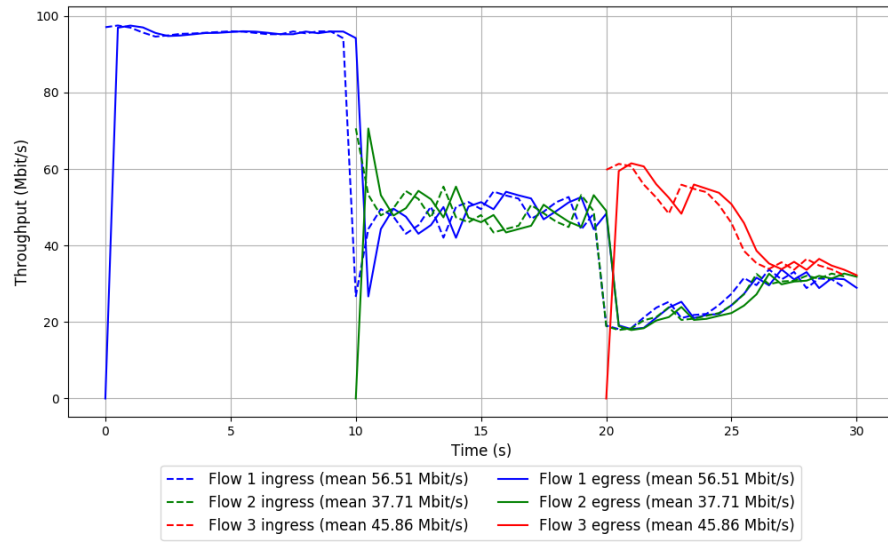


Run 1: Statistics of TCP Vegas

Start at: 2018-09-25 16:52:49
End at: 2018-09-25 16:53:19
Local clock offset: -5.473 ms
Remote clock offset: -0.704 ms

Below is generated by plot.py at 2018-09-25 18:38:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 1.732 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 1.400 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 1.500 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link

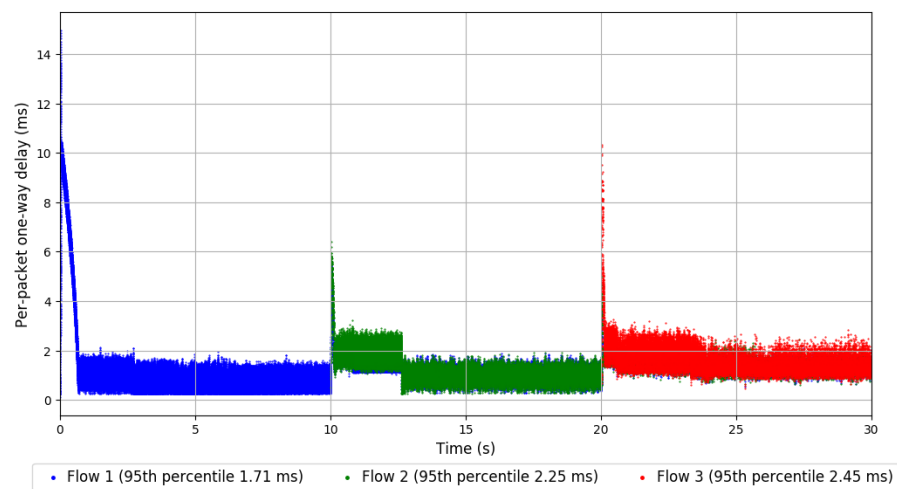
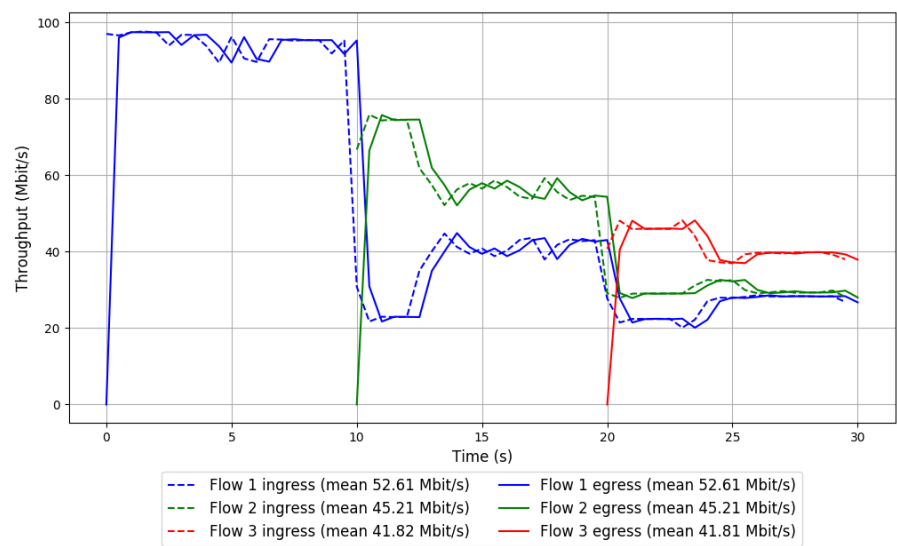


Run 2: Statistics of TCP Vegas

Start at: 2018-09-25 17:14:44
End at: 2018-09-25 17:15:14
Local clock offset: -5.709 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2018-09-25 18:38:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 2.276 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 52.61 Mbit/s
95th percentile per-packet one-way delay: 1.709 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 45.21 Mbit/s
95th percentile per-packet one-way delay: 2.251 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 41.81 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-09-25 17:36:38

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

Local clock offset: -6.786 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-09-25 18:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 2.007 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 1.457 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.78 Mbit/s

95th percentile per-packet one-way delay: 2.195 ms

Loss rate: 0.02%

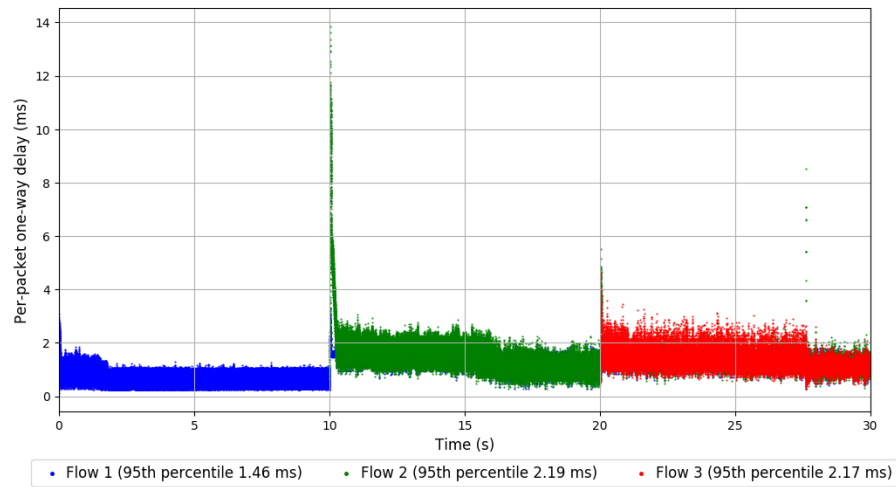
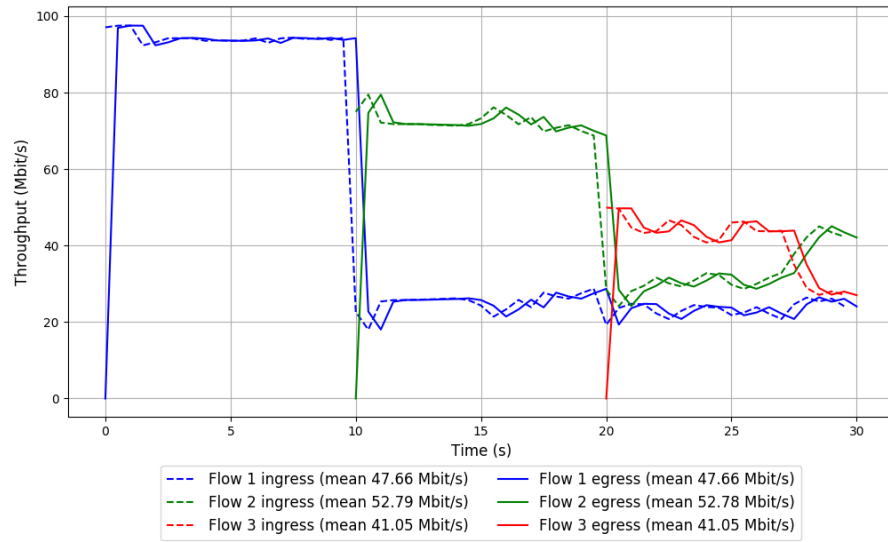
-- Flow 3:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 2.167 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-09-25 17:58:33

End at: 2018-09-25 17:59:03

Local clock offset: -5.357 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2018-09-25 18:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.49 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 2.035 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 2.355 ms

Loss rate: 0.02%

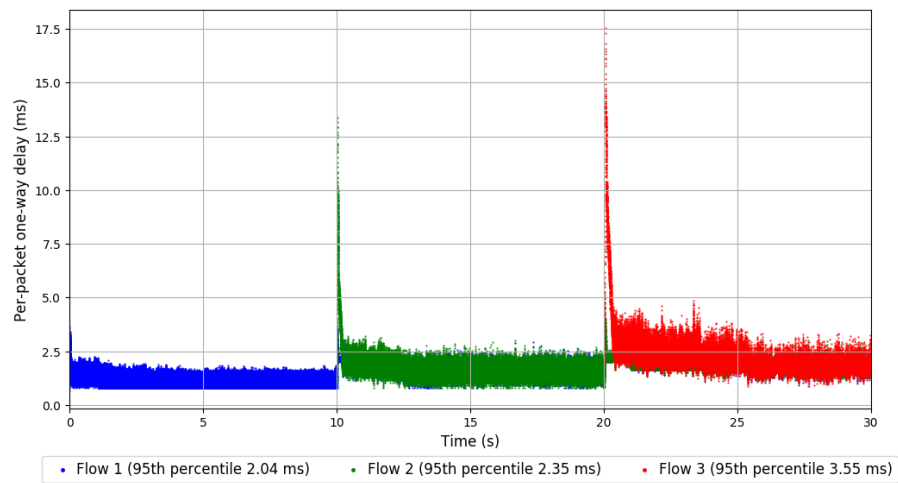
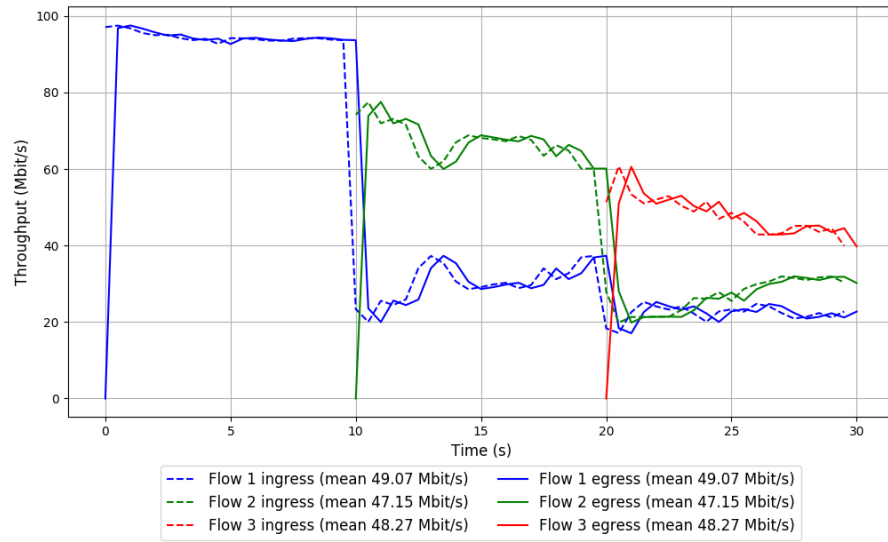
-- Flow 3:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 3.552 ms

Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-09-25 18:20:28

End at: 2018-09-25 18:20:58

Local clock offset: -6.242 ms

Remote clock offset: 0.615 ms

Below is generated by plot.py at 2018-09-25 18:39:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 2.350 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 49.52 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 2.516 ms

Loss rate: 0.02%

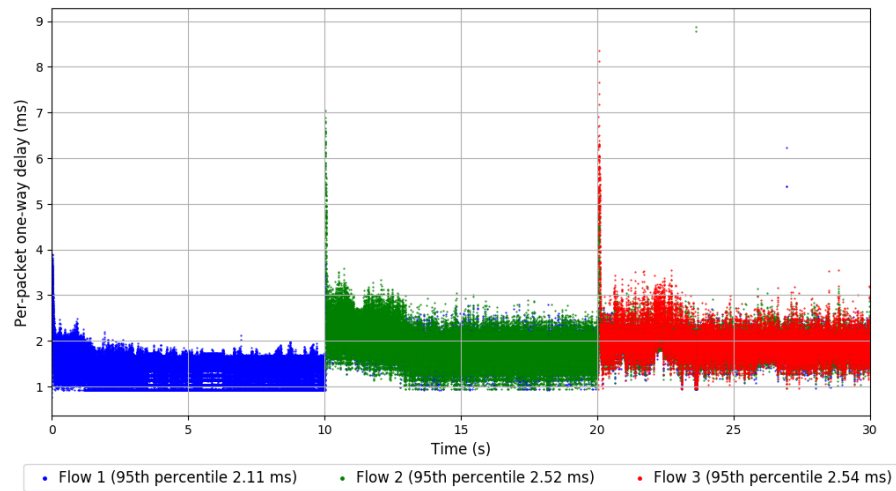
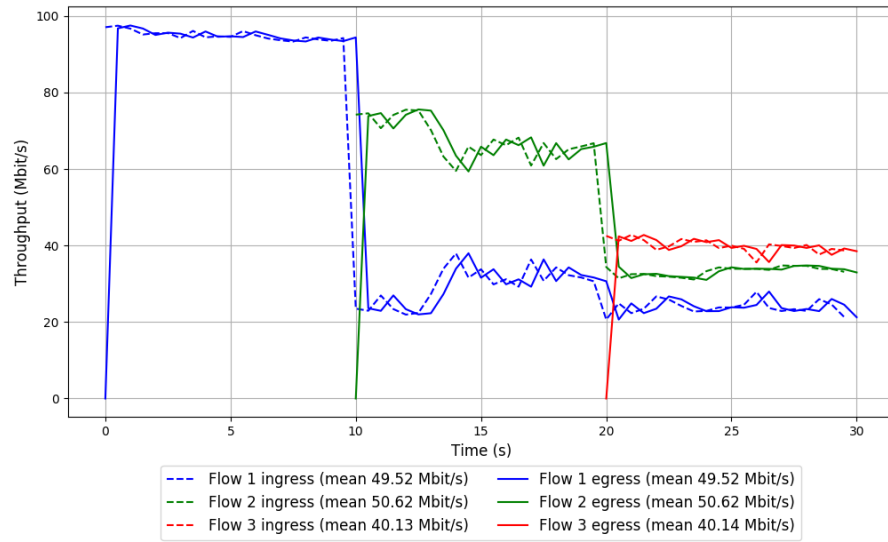
-- Flow 3:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 2.542 ms

Loss rate: 0.05%

Run 5: Report of TCP Vegas — Data Link

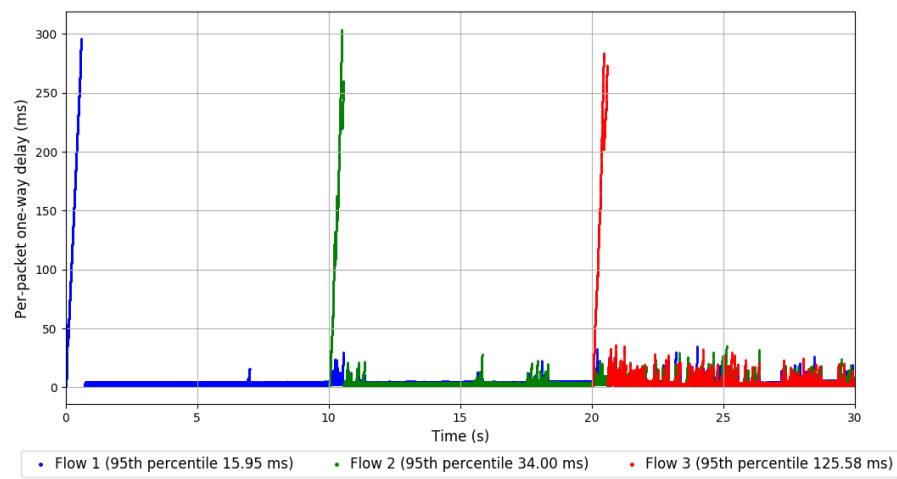
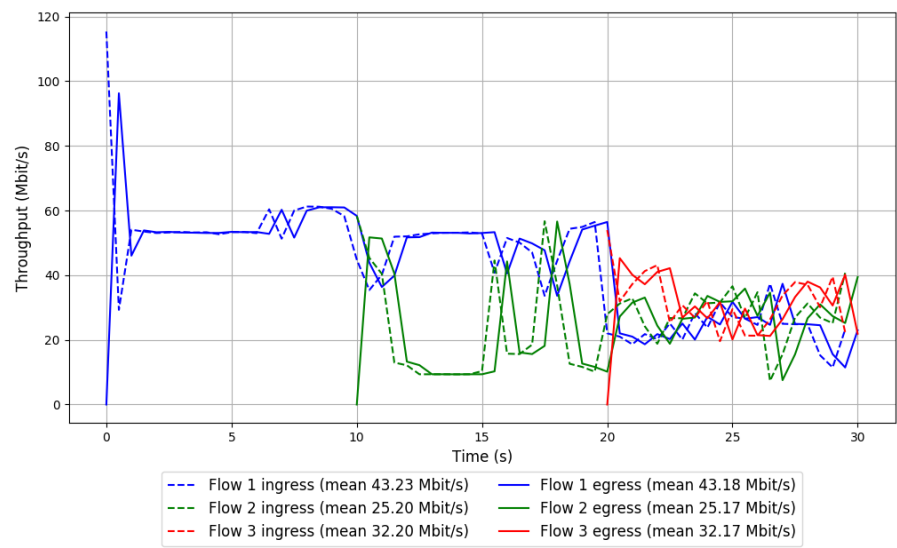


Run 1: Statistics of Verus

Start at: 2018-09-25 16:37:53
End at: 2018-09-25 16:38:23
Local clock offset: -6.306 ms
Remote clock offset: -0.909 ms

Below is generated by plot.py at 2018-09-25 18:39:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 26.875 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 43.18 Mbit/s
95th percentile per-packet one-way delay: 15.945 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 25.17 Mbit/s
95th percentile per-packet one-way delay: 34.001 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 125.575 ms
Loss rate: 0.11%

Run 1: Report of Verus — Data Link

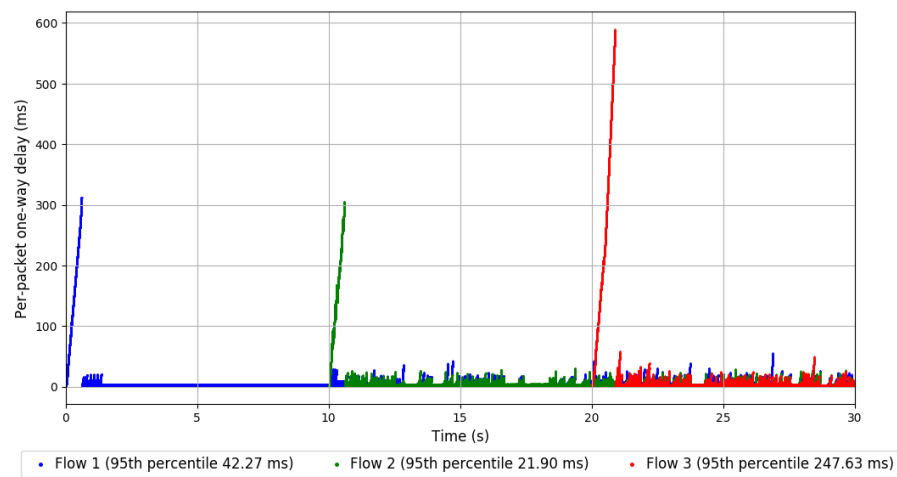
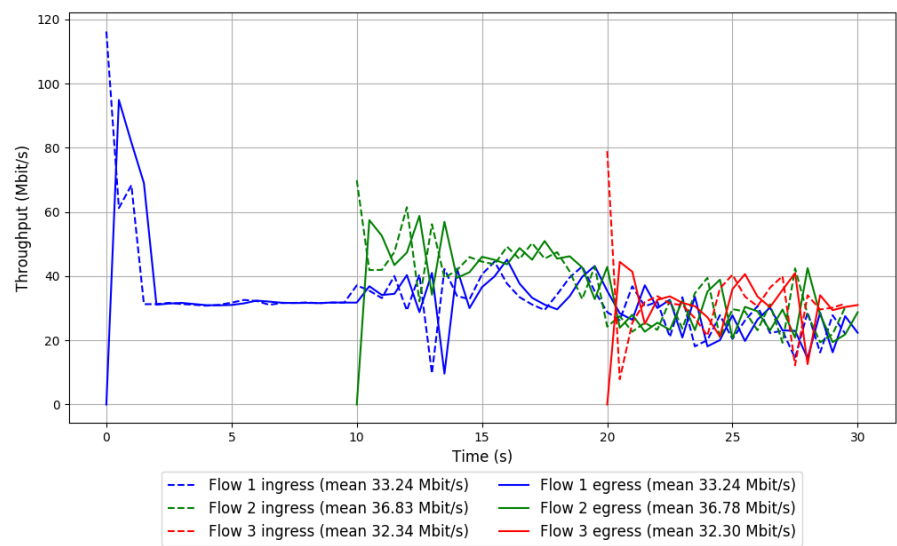


Run 2: Statistics of Verus

Start at: 2018-09-25 16:59:48
End at: 2018-09-25 17:00:18
Local clock offset: -4.448 ms
Remote clock offset: -0.509 ms

Below is generated by plot.py at 2018-09-25 18:39:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.45 Mbit/s
95th percentile per-packet one-way delay: 73.786 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 42.274 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 21.903 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 247.630 ms
Loss rate: 0.14%

Run 2: Report of Verus — Data Link

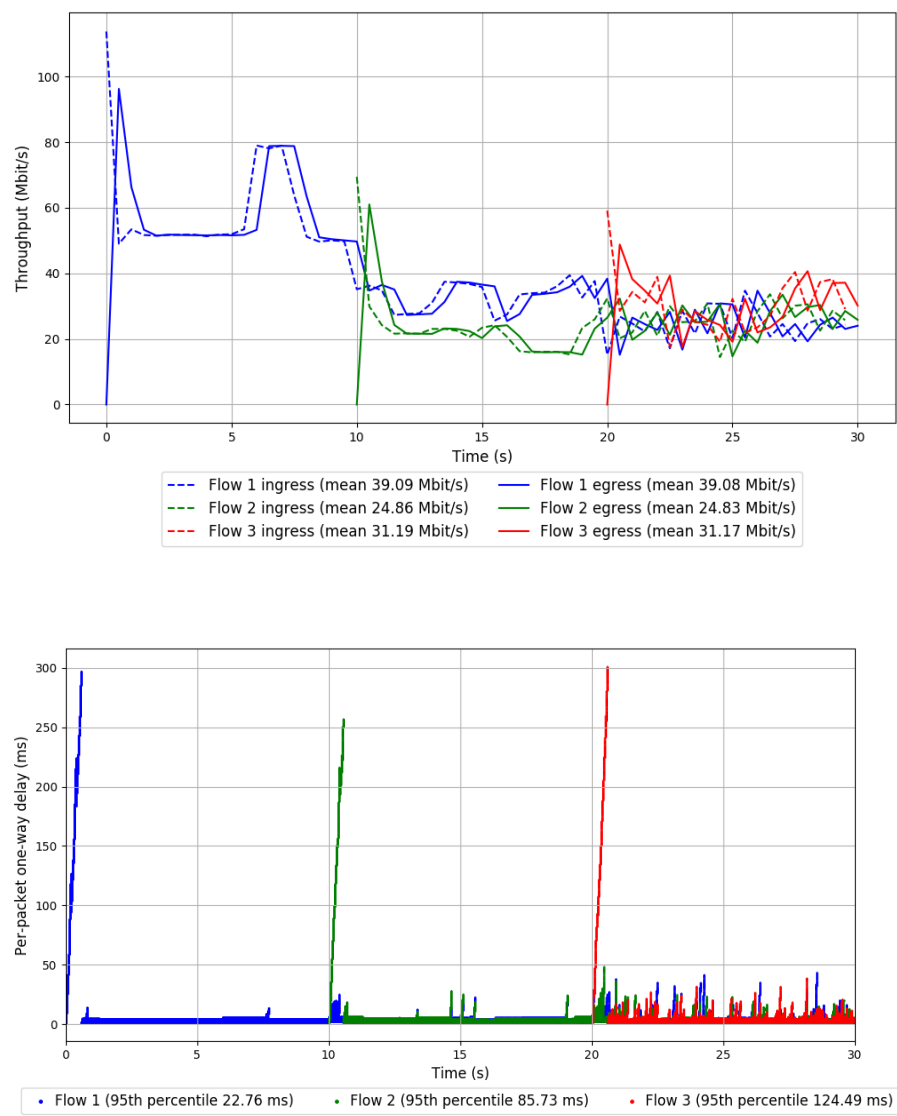


Run 3: Statistics of Verus

Start at: 2018-09-25 17:21:43
End at: 2018-09-25 17:22:13
Local clock offset: -5.536 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-09-25 18:39:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.97 Mbit/s
95th percentile per-packet one-way delay: 52.435 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 22.760 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 85.729 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 124.490 ms
Loss rate: 0.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-09-25 17:43:37

End at: 2018-09-25 17:44:08

Local clock offset: -6.489 ms

Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-09-25 18:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 116.861 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 35.08 Mbit/s

95th percentile per-packet one-way delay: 58.672 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 43.02 Mbit/s

95th percentile per-packet one-way delay: 16.266 ms

Loss rate: 0.01%

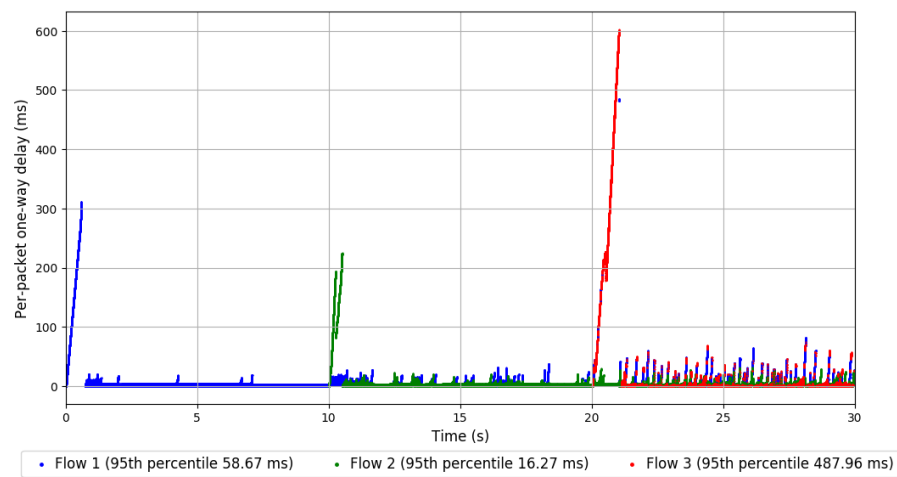
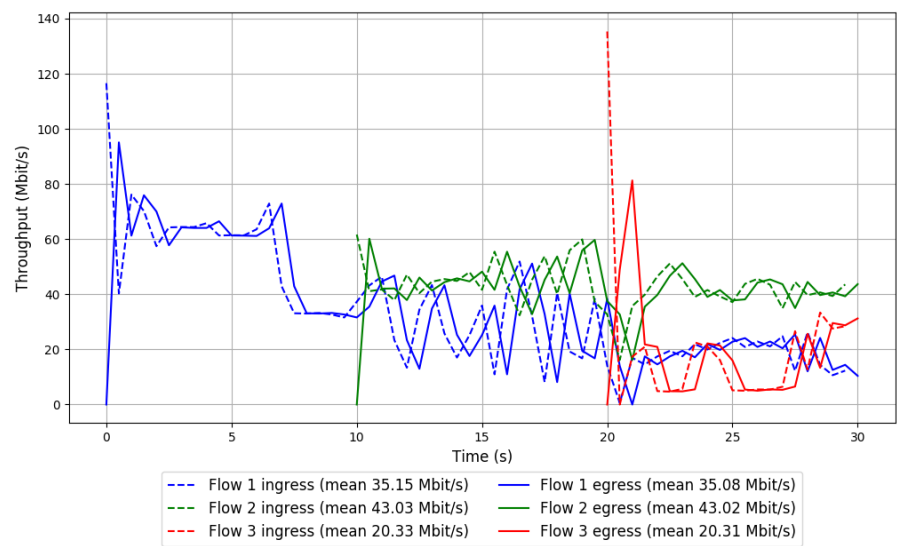
-- Flow 3:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 487.962 ms

Loss rate: 0.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-09-25 18:05:32

End at: 2018-09-25 18:06:02

Local clock offset: -6.107 ms

Remote clock offset: 0.511 ms

Below is generated by plot.py at 2018-09-25 18:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.88 Mbit/s

95th percentile per-packet one-way delay: 35.334 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 34.04 Mbit/s

95th percentile per-packet one-way delay: 40.037 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 17.414 ms

Loss rate: 0.06%

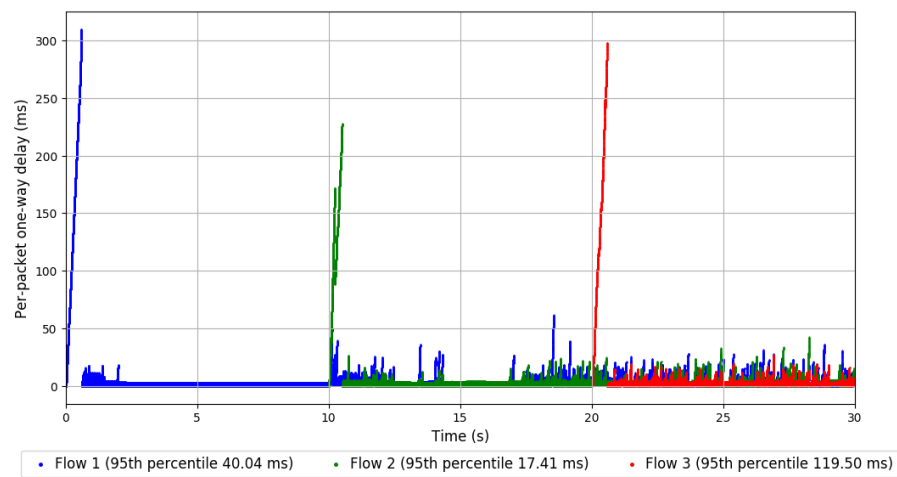
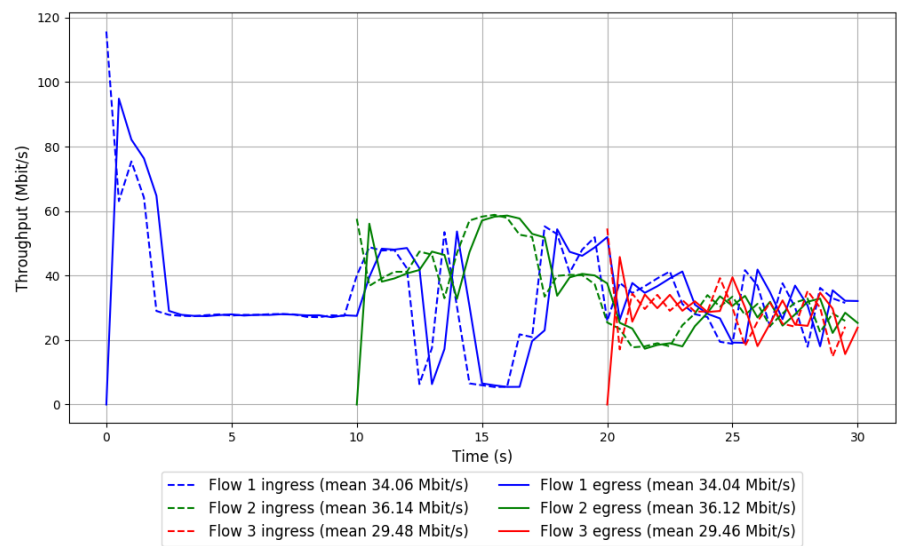
-- Flow 3:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 119.500 ms

Loss rate: 0.10%

Run 5: Report of Verus — Data Link

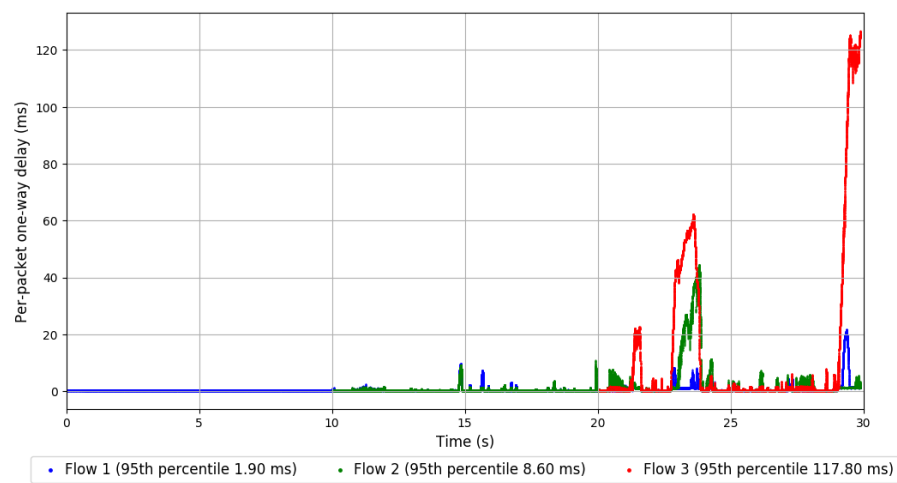
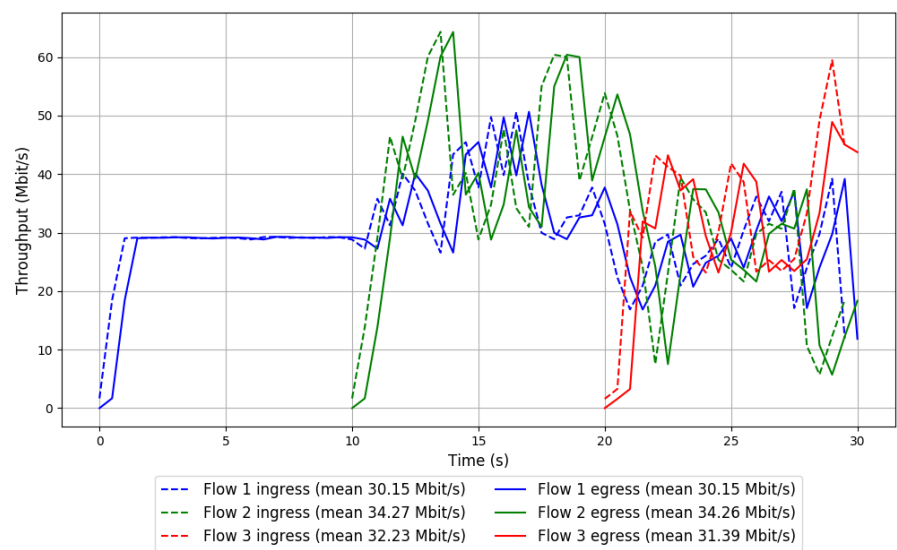


Run 1: Statistics of PCC-Vivace

Start at: 2018-09-25 16:35:35
End at: 2018-09-25 16:36:05
Local clock offset: -7.023 ms
Remote clock offset: -0.884 ms

Below is generated by plot.py at 2018-09-25 18:39:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.29 Mbit/s
95th percentile per-packet one-way delay: 22.208 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 1.899 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 8.602 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 31.39 Mbit/s
95th percentile per-packet one-way delay: 117.802 ms
Loss rate: 2.65%

Run 1: Report of PCC-Vivace — Data Link

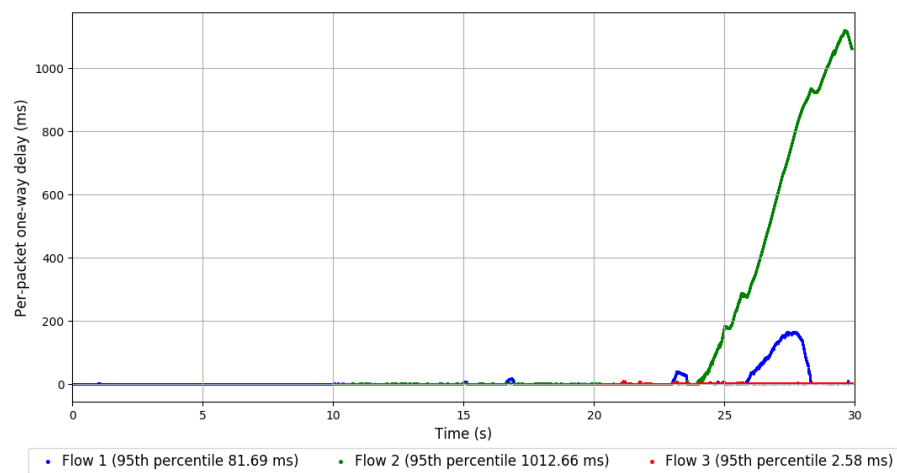
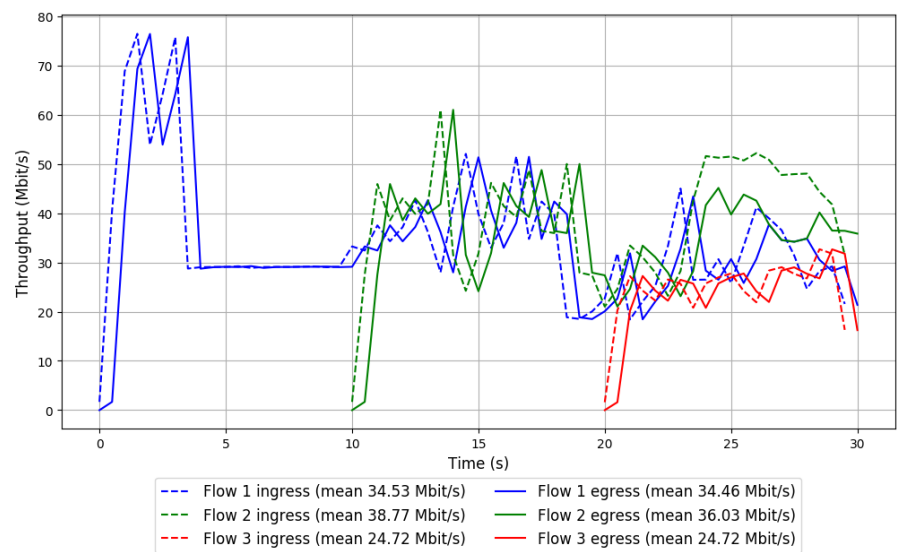


Run 2: Statistics of PCC-Vivace

Start at: 2018-09-25 16:57:29
End at: 2018-09-25 16:57:59
Local clock offset: -5.252 ms
Remote clock offset: -0.533 ms

Below is generated by plot.py at 2018-09-25 18:40:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 653.810 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 81.690 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 36.03 Mbit/s
95th percentile per-packet one-way delay: 1012.661 ms
Loss rate: 7.07%
-- Flow 3:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 2.576 ms
Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link

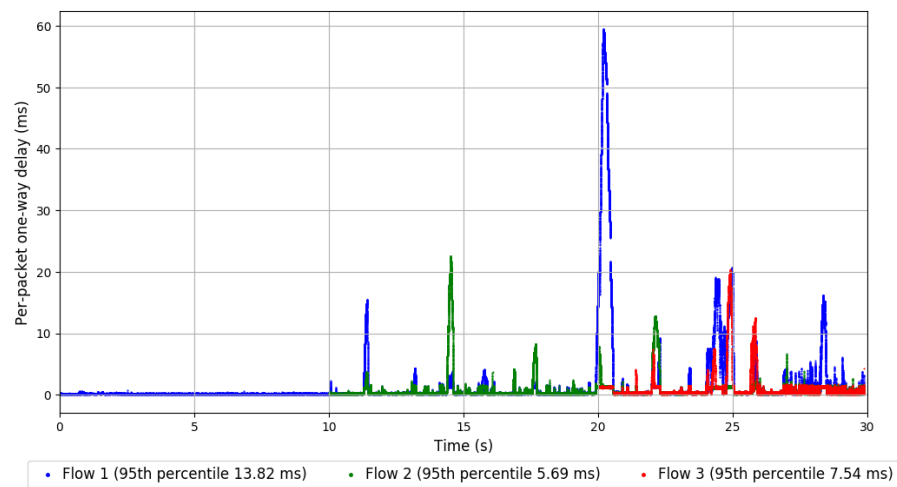
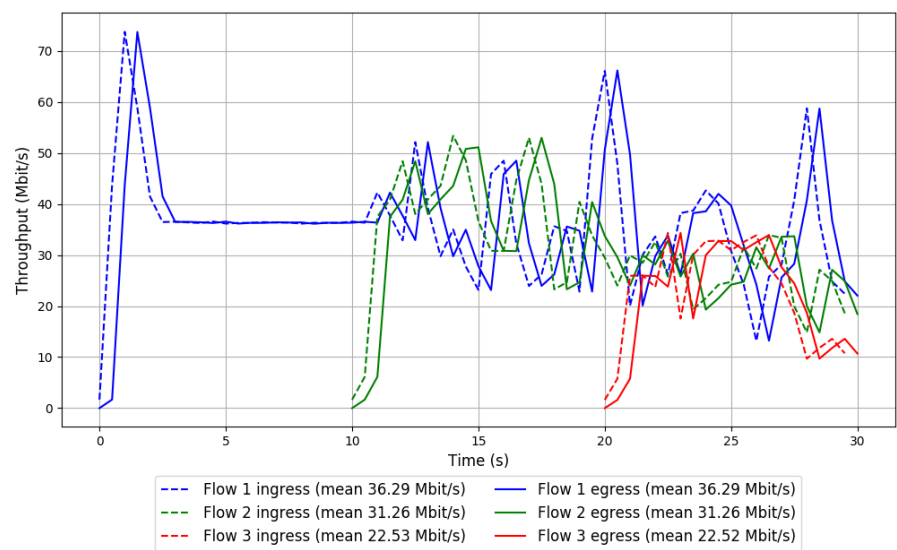


Run 3: Statistics of PCC-Vivace

Start at: 2018-09-25 17:19:25
End at: 2018-09-25 17:19:55
Local clock offset: -6.161 ms
Remote clock offset: -0.226 ms

Below is generated by plot.py at 2018-09-25 18:40:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.50 Mbit/s
95th percentile per-packet one-way delay: 9.472 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 13.823 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 5.693 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 22.52 Mbit/s
95th percentile per-packet one-way delay: 7.545 ms
Loss rate: 0.03%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-09-25 17:41:19

End at: 2018-09-25 17:41:49

Local clock offset: -5.893 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-09-25 18:40:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.29 Mbit/s

95th percentile per-packet one-way delay: 1068.435 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 2.851 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 1448.350 ms

Loss rate: 11.24%

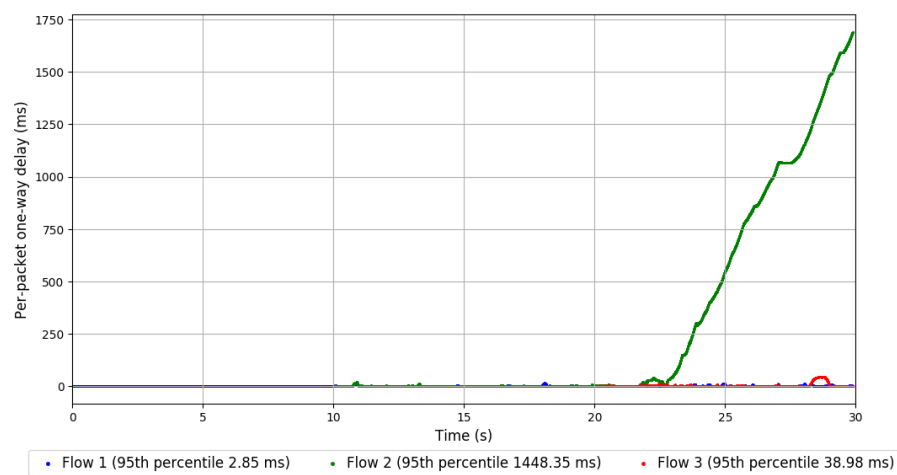
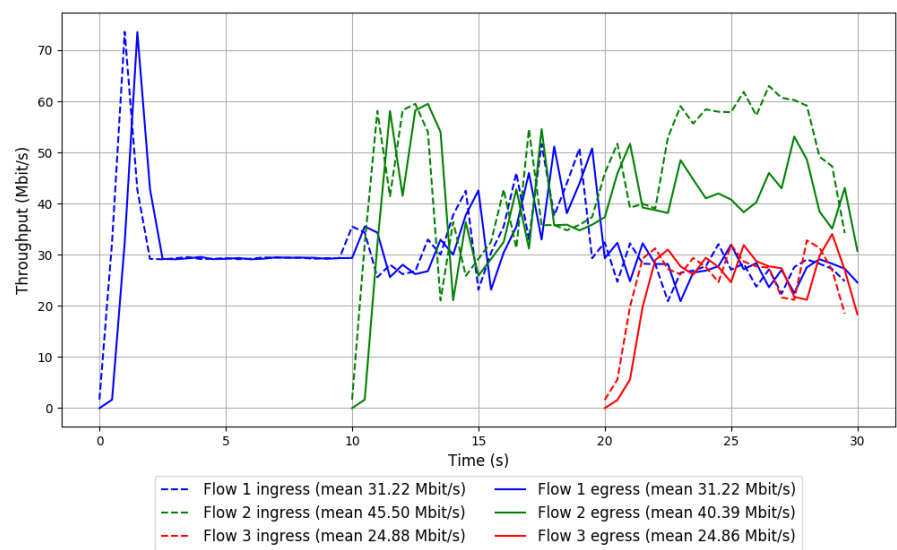
-- Flow 3:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 38.983 ms

Loss rate: 0.11%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-09-25 18:03:13

End at: 2018-09-25 18:03:43

Local clock offset: -6.185 ms

Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-09-25 18:40:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 25.137 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 33.807 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 32.92 Mbit/s

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

Loss rate: 0.10%

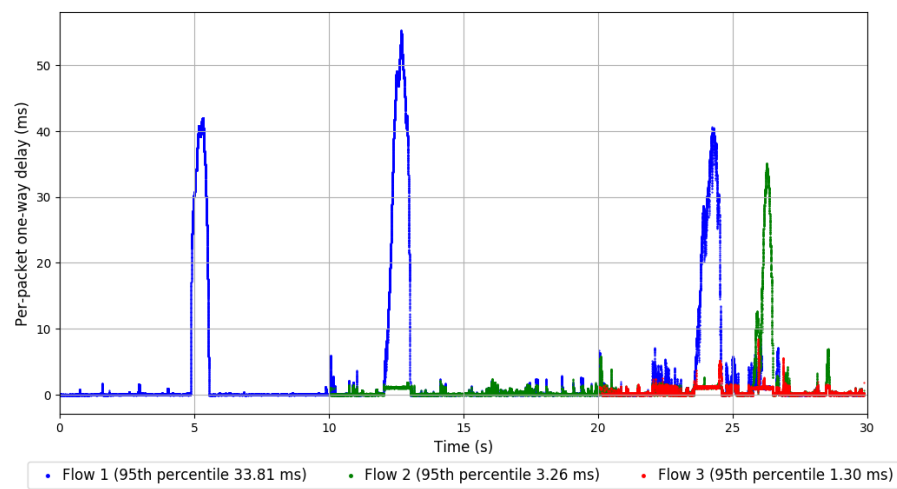
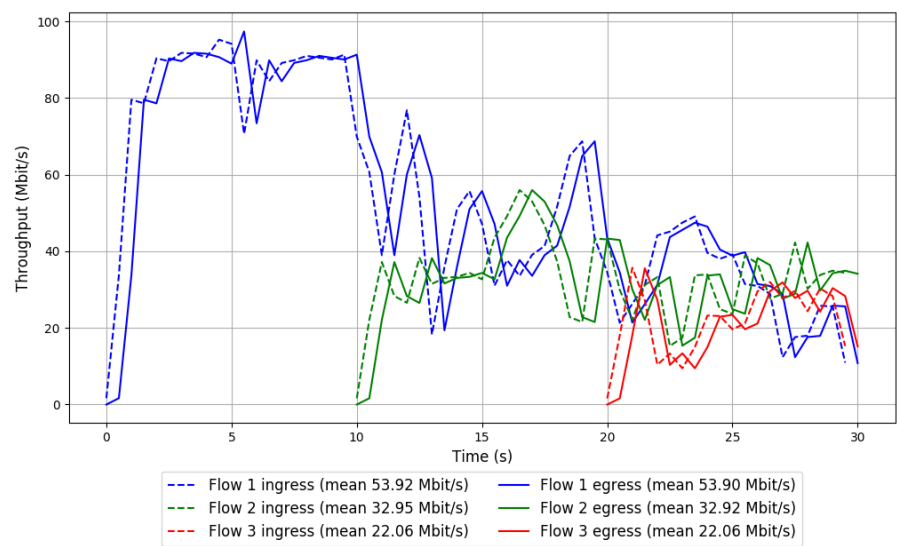
-- Flow 3:

Average throughput: 22.06 Mbit/s

95th percentile per-packet one-way delay: 1.297 ms

Loss rate: 0.03%

Run 5: Report of PCC-Vivace — Data Link

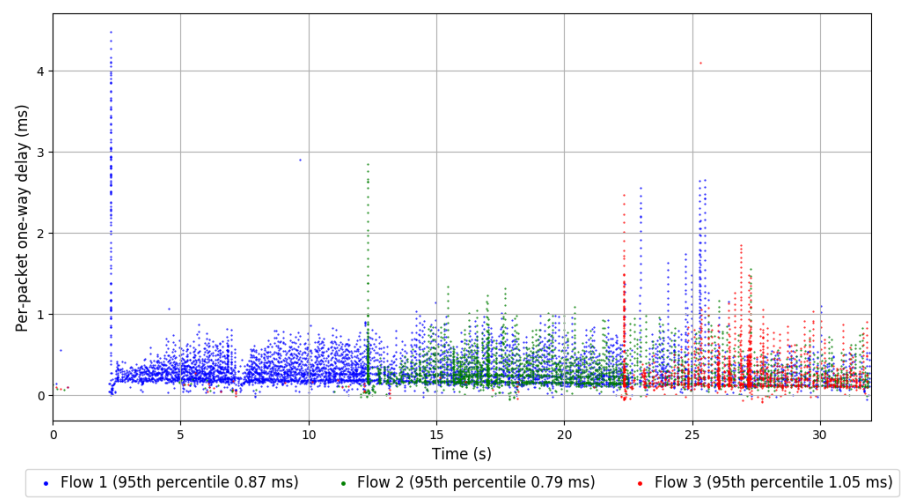
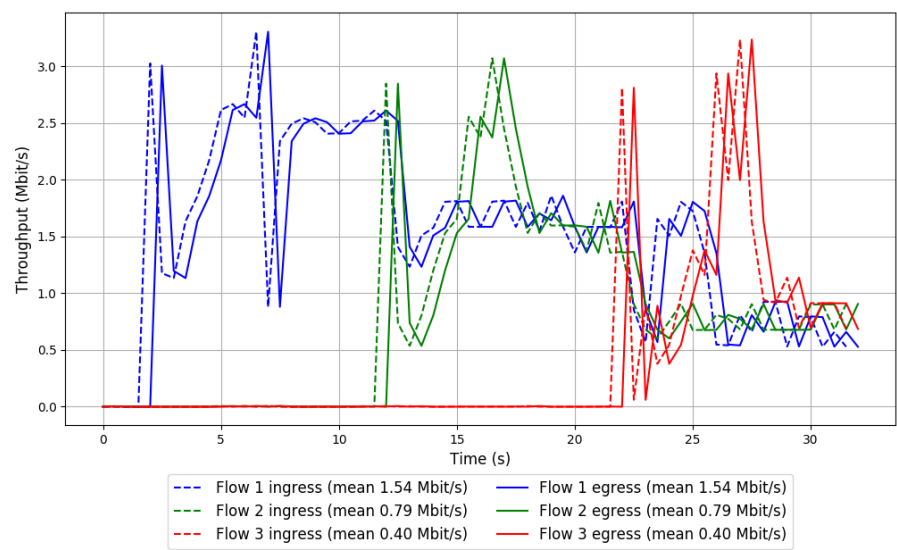


Run 1: Statistics of WebRTC media

Start at: 2018-09-25 16:39:02
End at: 2018-09-25 16:39:32
Local clock offset: -7.021 ms
Remote clock offset: -0.829 ms

Below is generated by plot.py at 2018-09-25 18:40:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 0.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 0.871 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 0.791 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 1.048 ms
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link

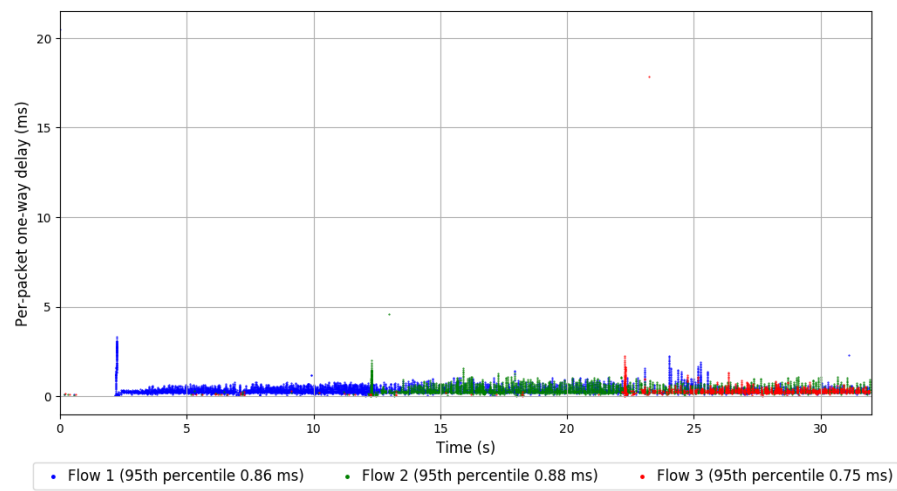
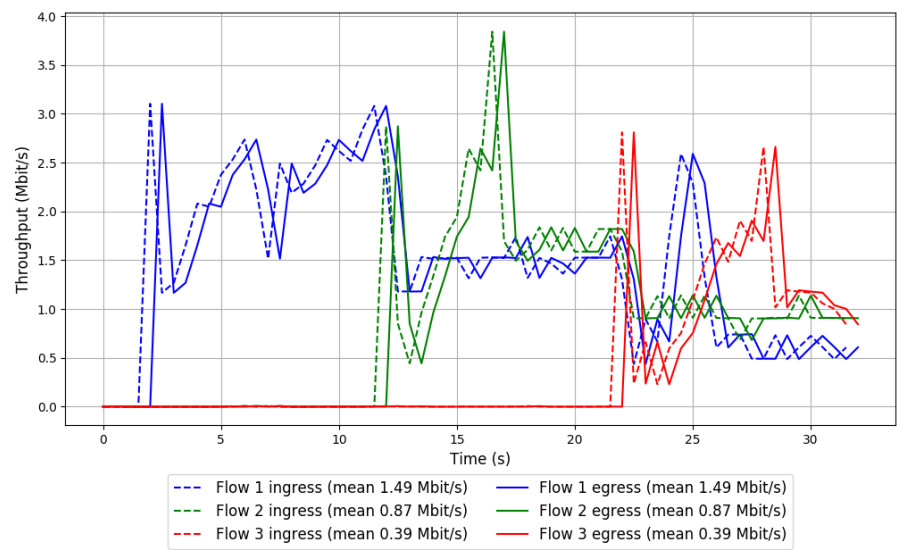


Run 2: Statistics of WebRTC media

Start at: 2018-09-25 17:00:57
End at: 2018-09-25 17:01:27
Local clock offset: -5.133 ms
Remote clock offset: -0.505 ms

Below is generated by plot.py at 2018-09-25 18:40:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 0.856 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 0.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 0.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 0.751 ms
Loss rate: 0.08%

Run 2: Report of WebRTC media — Data Link

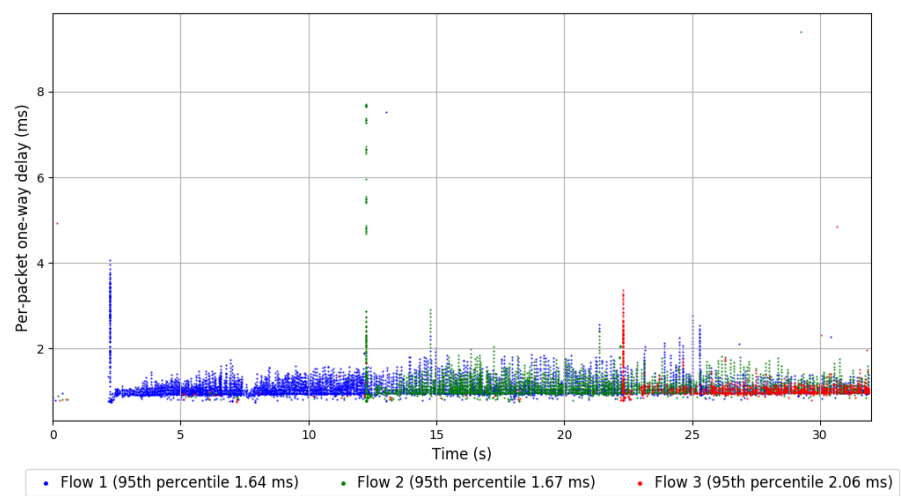
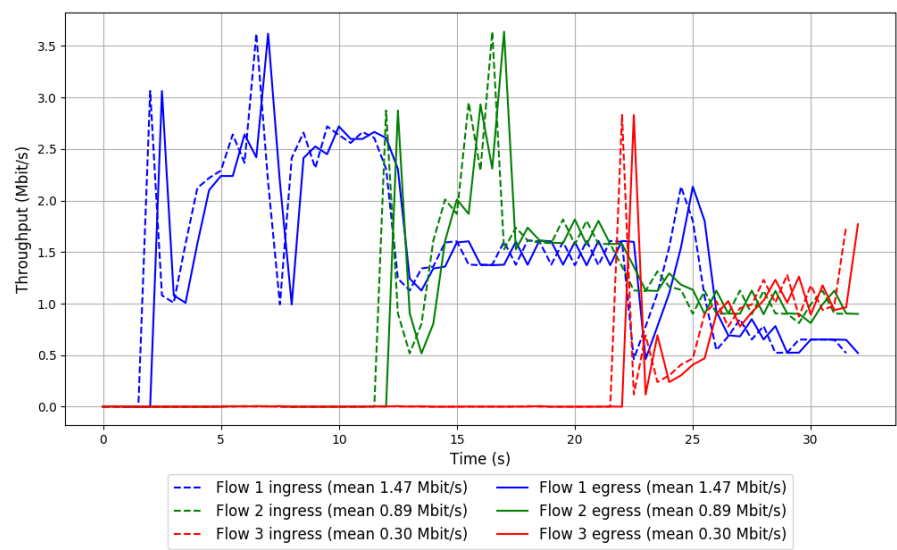


Run 3: Statistics of WebRTC media

Start at: 2018-09-25 17:22:51
End at: 2018-09-25 17:23:21
Local clock offset: -5.605 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-09-25 18:40:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 1.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 1.637 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 1.668 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 2.059 ms
Loss rate: 0.01%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-09-25 17:44:47

End at: 2018-09-25 17:45:17

Local clock offset: -5.739 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2018-09-25 18:40:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 1.568 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 1.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 1.695 ms

Loss rate: 0.00%

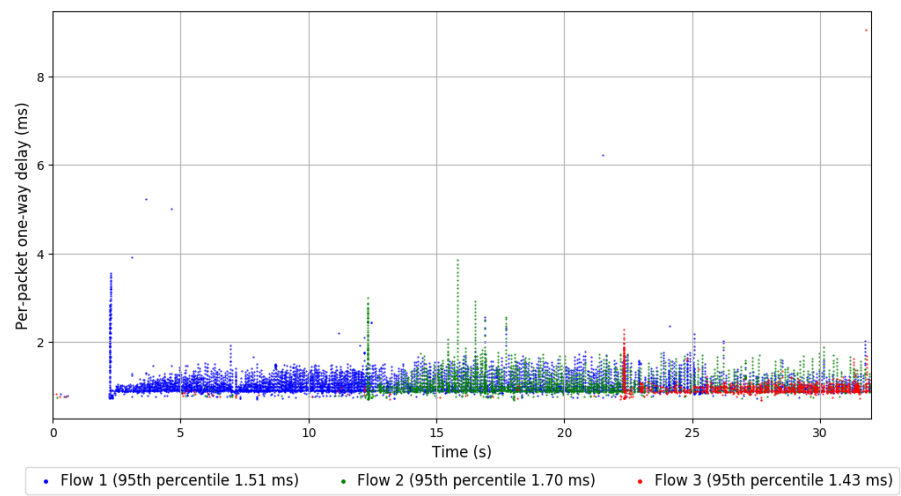
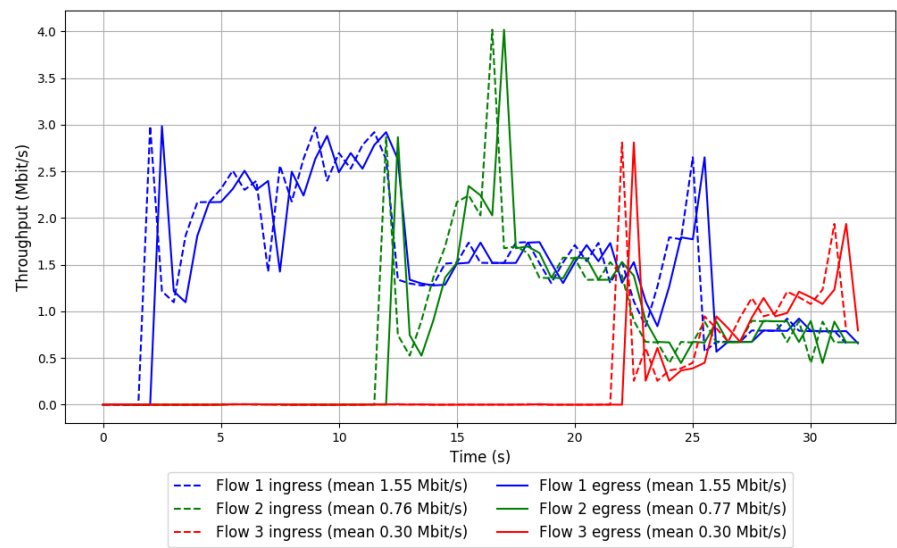
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.431 ms

Loss rate: 0.01%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-25 18:06:41

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

Local clock offset: -6.114 ms

Remote clock offset: 0.452 ms

Below is generated by plot.py at 2018-09-25 18:40:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 0.817 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 0.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 0.887 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 0.909 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

