

Pantheon Report

Generated at 2018-09-25 14:20:15 (UTC).

Data path: GCE Tokyo on **ens4** (*local*) → GCE London on **ens4** (*remote*).

Repeated the test of 19 congestion control schemes 5 times.

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

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

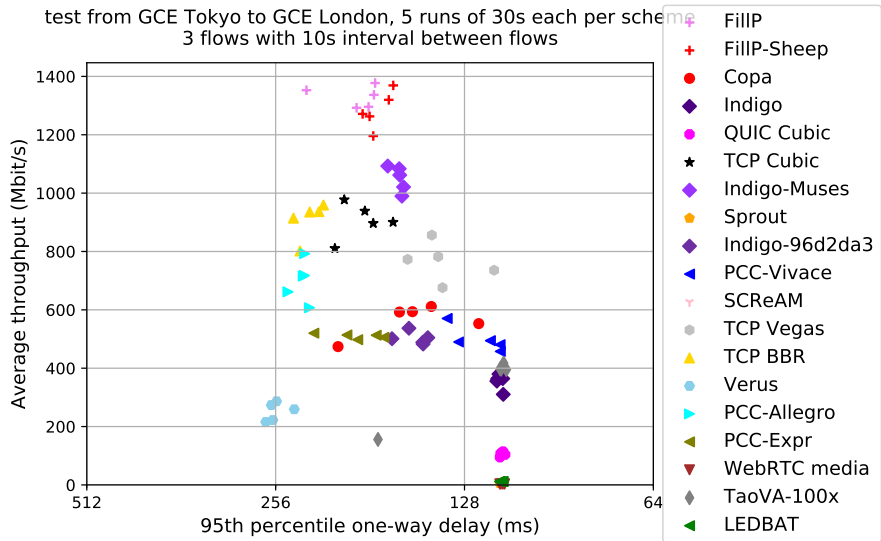
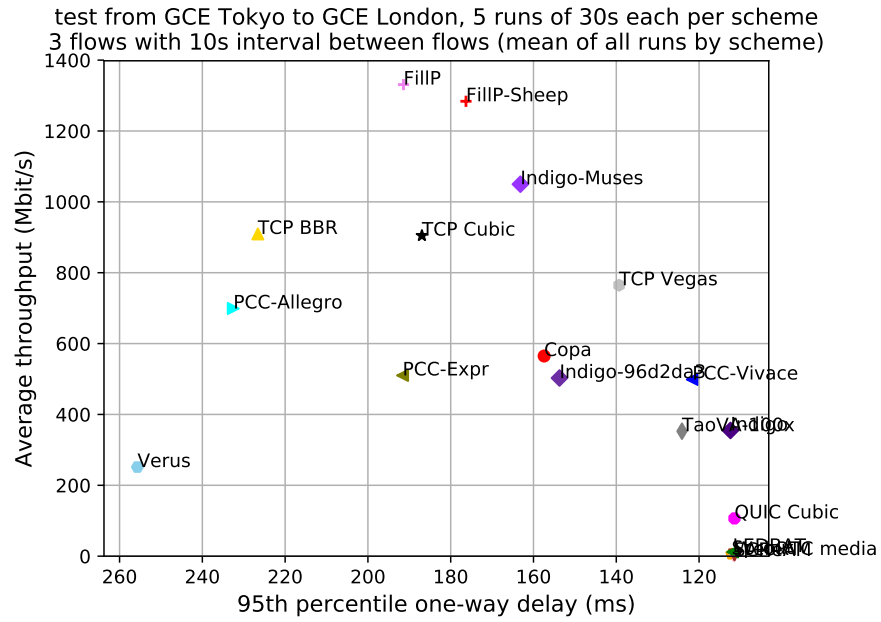
System info:

```
Linux 4.15.0-1019-gcp
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 = 190986 254651 381972
```

Git summary:

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

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



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	481.48	466.38	352.68	226.32	224.51	218.68	1.95	2.14	3.18
Copa	5	302.42	284.26	219.47	147.66	163.92	133.91	0.01	0.01	0.01
TCP Cubic	5	462.71	489.00	349.52	181.32	177.01	178.69	0.12	0.17	0.48
FillP	5	712.20	672.71	517.03	197.76	186.14	157.01	3.75	1.62	0.71
FillP-Sheep	5	702.93	626.27	492.97	177.98	164.60	128.13	2.02	1.09	0.19
Indigo	5	189.96	174.00	154.93	112.03	112.08	113.98	0.00	0.00	0.00
Indigo-96d2da3	5	269.90	248.31	212.35	157.17	148.39	149.41	0.07	0.02	0.01
LEDBAT	5	7.61	5.06	2.43	111.46	111.79	111.32	0.02	0.00	0.00
Indigo-Muses	5	584.96	520.38	371.61	163.89	163.50	160.90	0.16	0.07	0.29
PCC-Allegro	5	386.47	345.88	251.04	225.94	215.89	205.10	3.64	2.55	3.99
PCC-Expr	5	301.04	216.88	196.04	198.98	128.23	192.43	2.51	0.05	1.25
QUIC Cubic	5	56.83	55.03	40.84	110.67	111.05	110.54	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	110.60	111.07	111.21	0.00	0.00	0.00
Sprout	5	3.11	2.77	2.57	111.92	111.67	111.17	0.00	0.00	0.00
TaoVA-100x	5	183.08	176.36	156.73	122.91	139.18	118.51	0.02	0.05	0.09
TCP Vegas	5	421.68	364.64	301.41	120.33	138.50	159.43	0.17	0.06	0.10
Verus	5	151.41	104.54	94.88	227.79	209.72	184.31	4.08	2.16	2.40
PCC-Vivace	5	317.58	212.62	119.99	122.11	120.10	112.69	0.06	0.00	0.00
WebRTC media	5	1.88	1.13	0.39	111.30	110.98	111.06	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

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

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

Local clock offset: 0.218 ms

Remote clock offset: 0.453 ms

Below is generated by plot.py at 2018-09-25 12:17:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 935.29 Mbit/s

95th percentile per-packet one-way delay: 225.902 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 510.86 Mbit/s

95th percentile per-packet one-way delay: 234.073 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 447.11 Mbit/s

95th percentile per-packet one-way delay: 208.222 ms

Loss rate: 0.65%

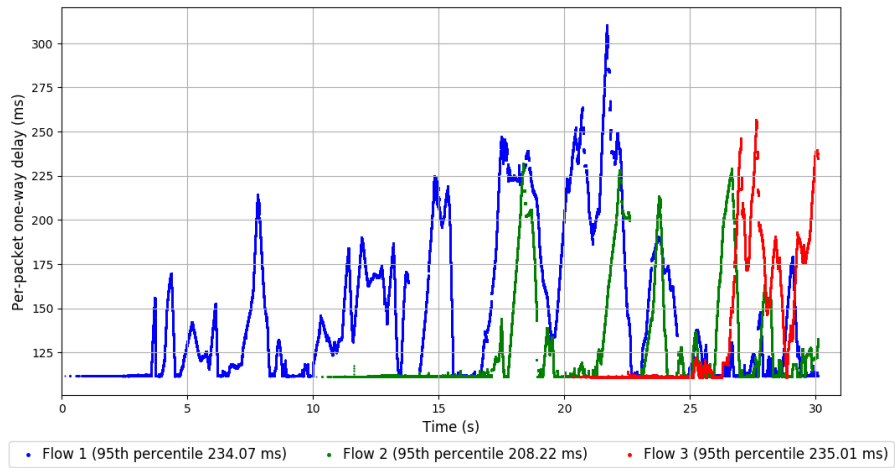
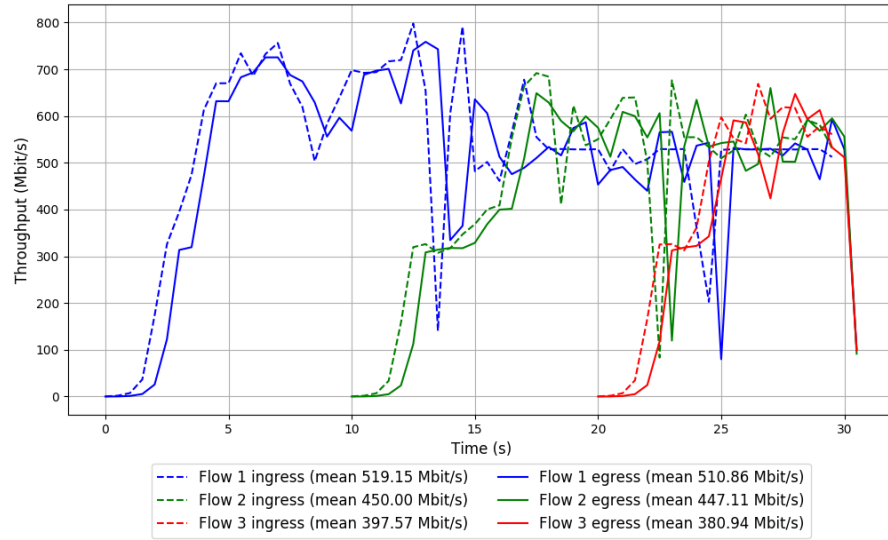
-- Flow 3:

Average throughput: 380.94 Mbit/s

95th percentile per-packet one-way delay: 235.006 ms

Loss rate: 4.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

End at: 2018-09-25 09:52:28

Local clock offset: -0.013 ms

Remote clock offset: 0.403 ms

Below is generated by plot.py at 2018-09-25 12:17:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 959.24 Mbit/s

95th percentile per-packet one-way delay: 214.789 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 509.67 Mbit/s

95th percentile per-packet one-way delay: 199.657 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 490.36 Mbit/s

95th percentile per-packet one-way delay: 223.147 ms

Loss rate: 1.49%

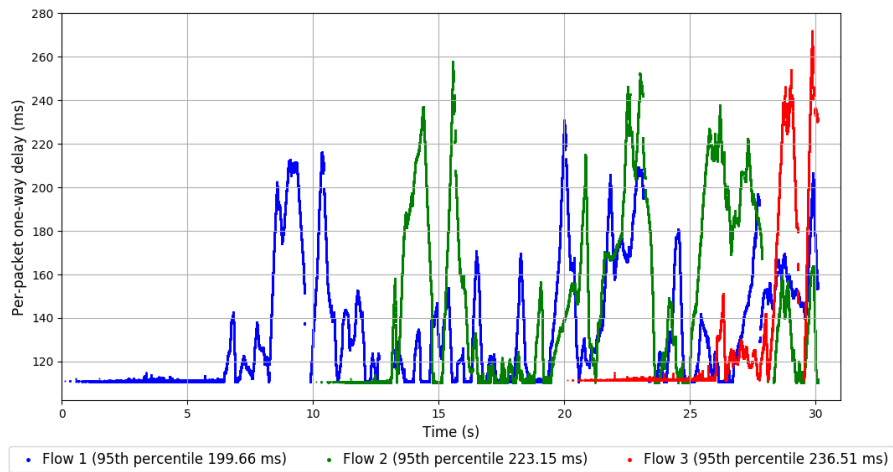
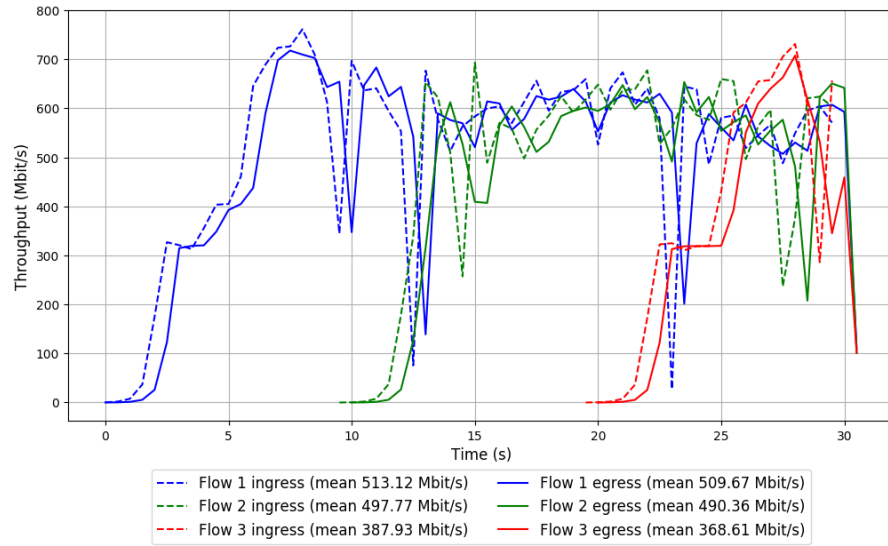
-- Flow 3:

Average throughput: 368.61 Mbit/s

95th percentile per-packet one-way delay: 236.509 ms

Loss rate: 4.96%

Run 2: Report of TCP BBR — Data Link

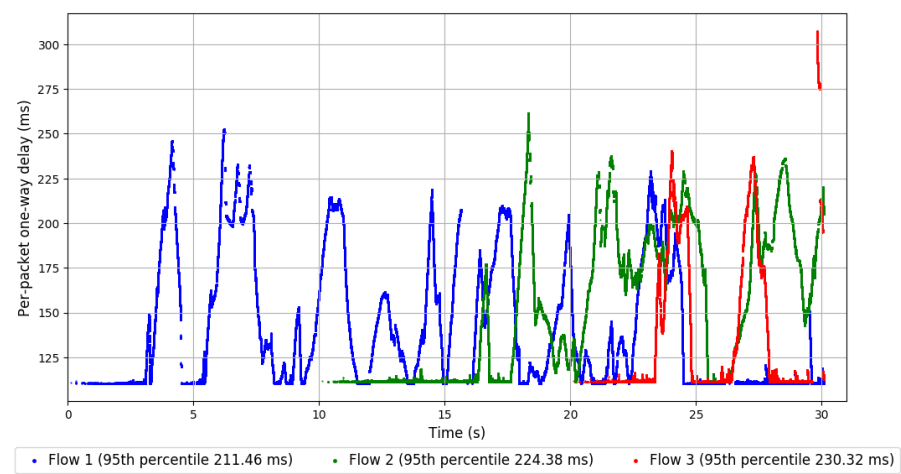
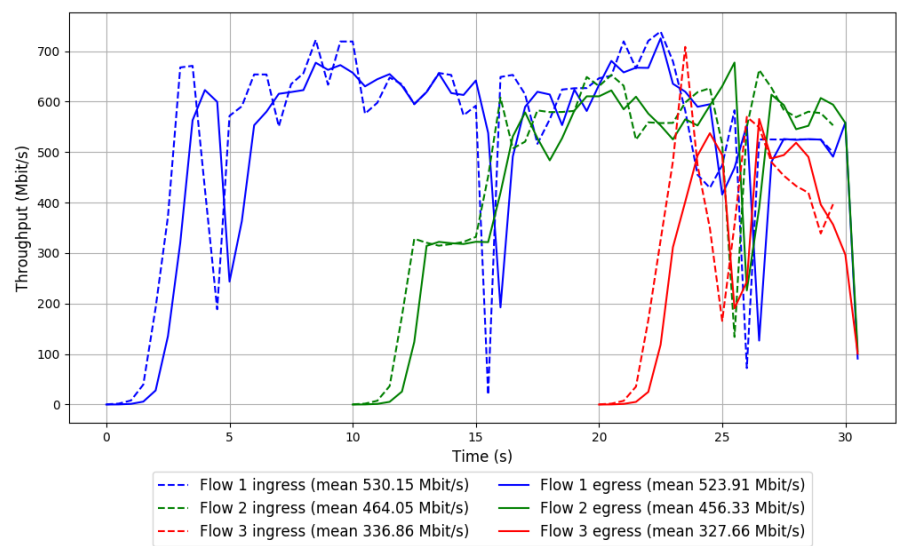


Run 3: Statistics of TCP BBR

Start at: 2018-09-25 10:27:08
End at: 2018-09-25 10:27:38
Local clock offset: -0.646 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-09-25 12:17:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 936.75 Mbit/s
95th percentile per-packet one-way delay: 218.402 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 523.91 Mbit/s
95th percentile per-packet one-way delay: 211.457 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 456.33 Mbit/s
95th percentile per-packet one-way delay: 224.379 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 327.66 Mbit/s
95th percentile per-packet one-way delay: 230.324 ms
Loss rate: 2.74%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-09-25 11:02:30

End at: 2018-09-25 11:03:00

Local clock offset: -0.169 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-09-25 12:17:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 801.74 Mbit/s

95th percentile per-packet one-way delay: 234.073 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 368.91 Mbit/s

95th percentile per-packet one-way delay: 241.308 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 472.94 Mbit/s

95th percentile per-packet one-way delay: 235.546 ms

Loss rate: 3.91%

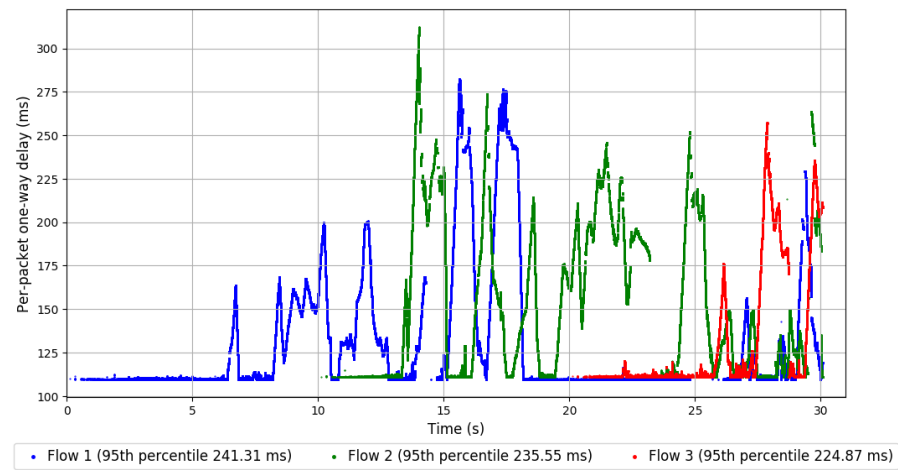
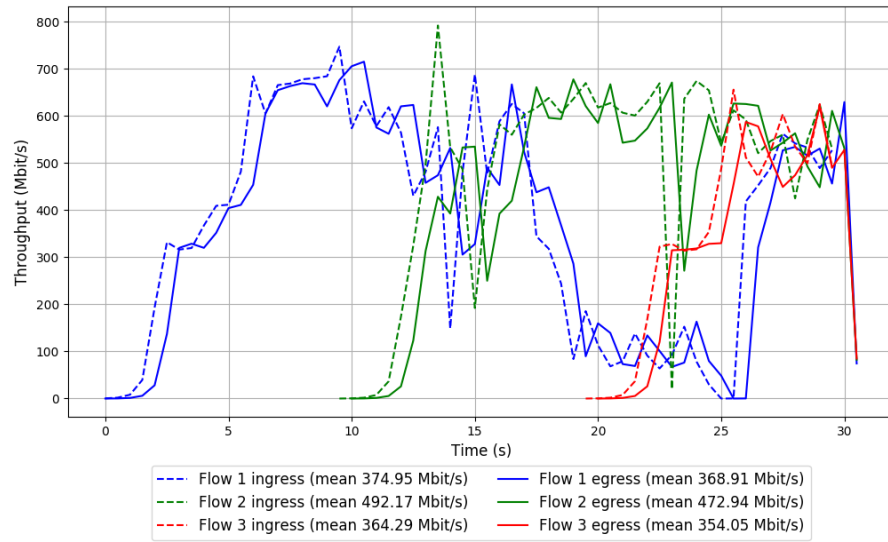
-- Flow 3:

Average throughput: 354.05 Mbit/s

95th percentile per-packet one-way delay: 224.865 ms

Loss rate: 2.81%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-09-25 11:37:40

End at: 2018-09-25 11:38:10

Local clock offset: -0.203 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-09-25 12:17:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 914.31 Mbit/s

95th percentile per-packet one-way delay: 239.800 ms

Loss rate: 3.73%

-- Flow 1:

Average throughput: 494.04 Mbit/s

95th percentile per-packet one-way delay: 245.101 ms

Loss rate: 4.72%

-- Flow 2:

Average throughput: 465.16 Mbit/s

95th percentile per-packet one-way delay: 231.266 ms

Loss rate: 3.00%

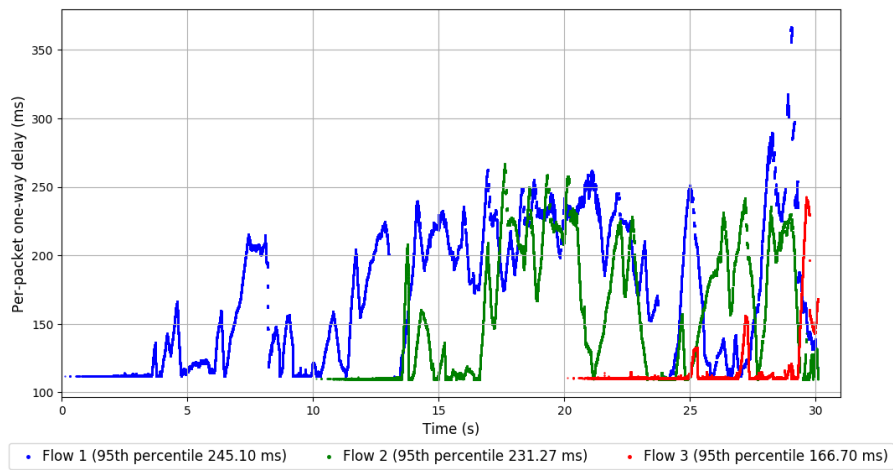
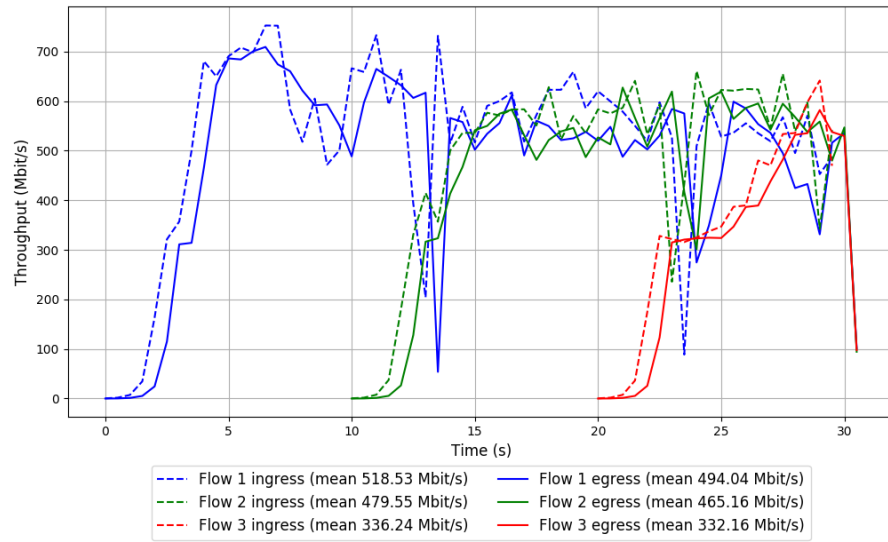
-- Flow 3:

Average throughput: 332.16 Mbit/s

95th percentile per-packet one-way delay: 166.704 ms

Loss rate: 1.20%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-09-25 08:56:34

End at: 2018-09-25 08:57:04

Local clock offset: 0.622 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-09-25 12:17:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 474.01 Mbit/s

95th percentile per-packet one-way delay: 203.603 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 277.58 Mbit/s

95th percentile per-packet one-way delay: 183.150 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 230.51 Mbit/s

95th percentile per-packet one-way delay: 213.079 ms

Loss rate: 0.00%

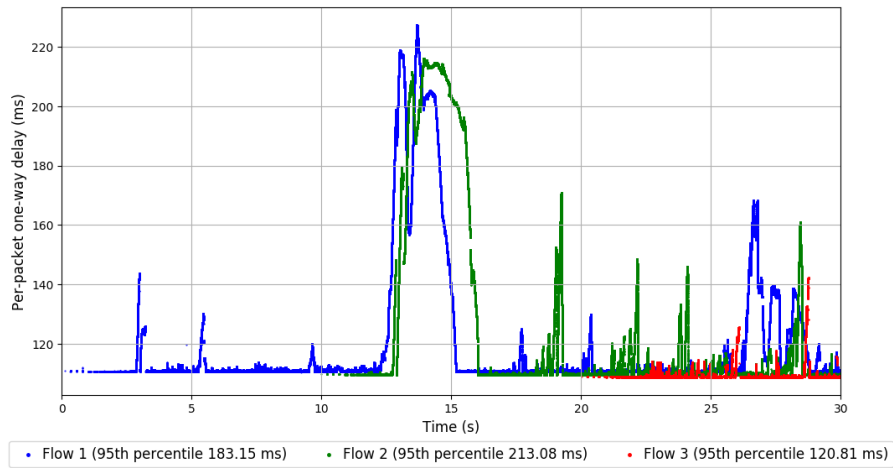
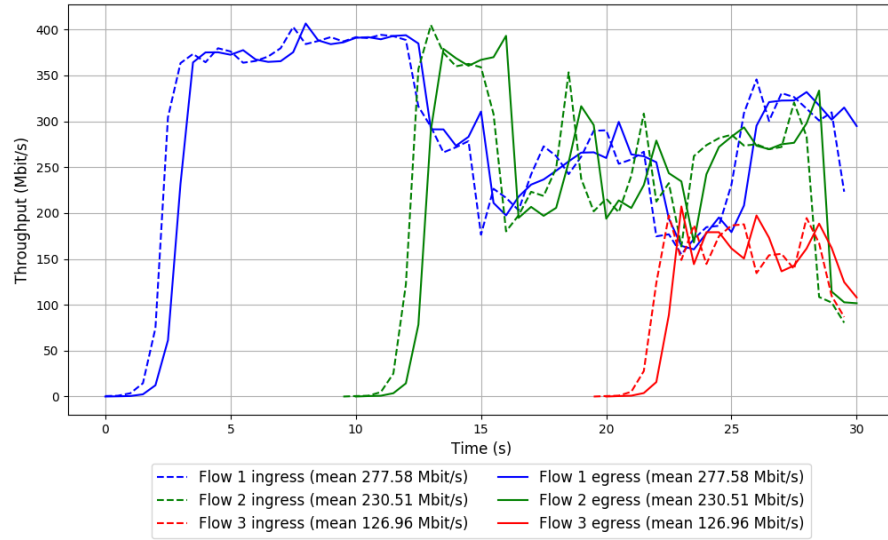
-- Flow 3:

Average throughput: 126.96 Mbit/s

95th percentile per-packet one-way delay: 120.810 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

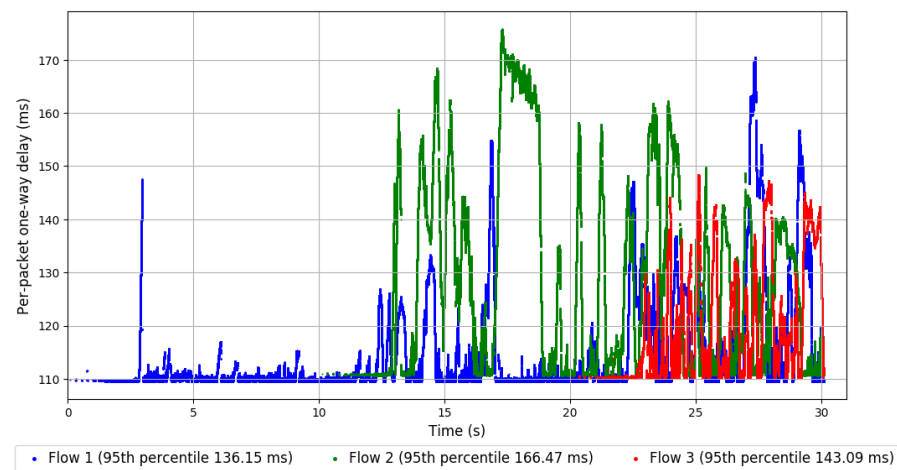
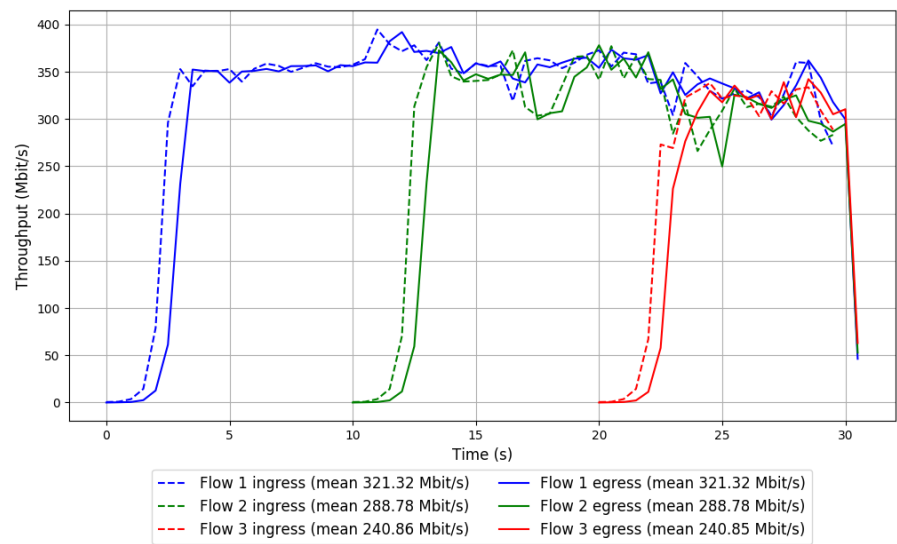


Run 2: Statistics of Copa

Start at: 2018-09-25 09:31:19
End at: 2018-09-25 09:31:49
Local clock offset: 0.164 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2018-09-25 12:20:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 593.73 Mbit/s
95th percentile per-packet one-way delay: 154.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 321.32 Mbit/s
95th percentile per-packet one-way delay: 136.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 288.78 Mbit/s
95th percentile per-packet one-way delay: 166.467 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.85 Mbit/s
95th percentile per-packet one-way delay: 143.091 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

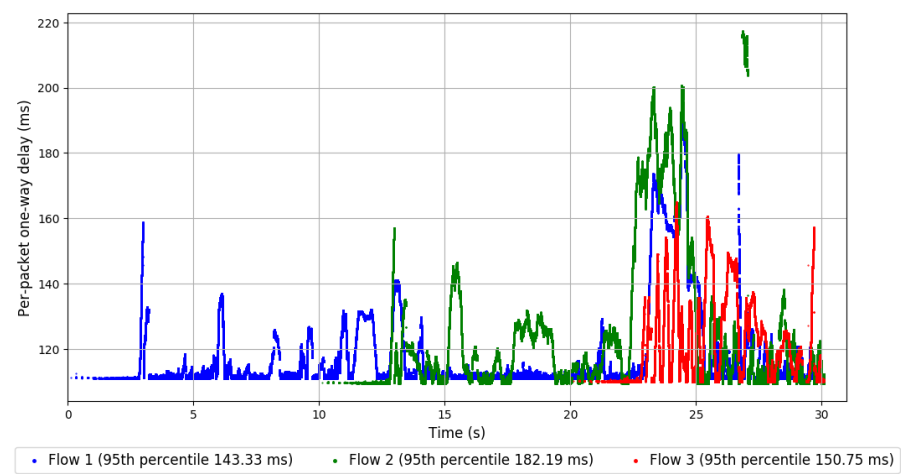
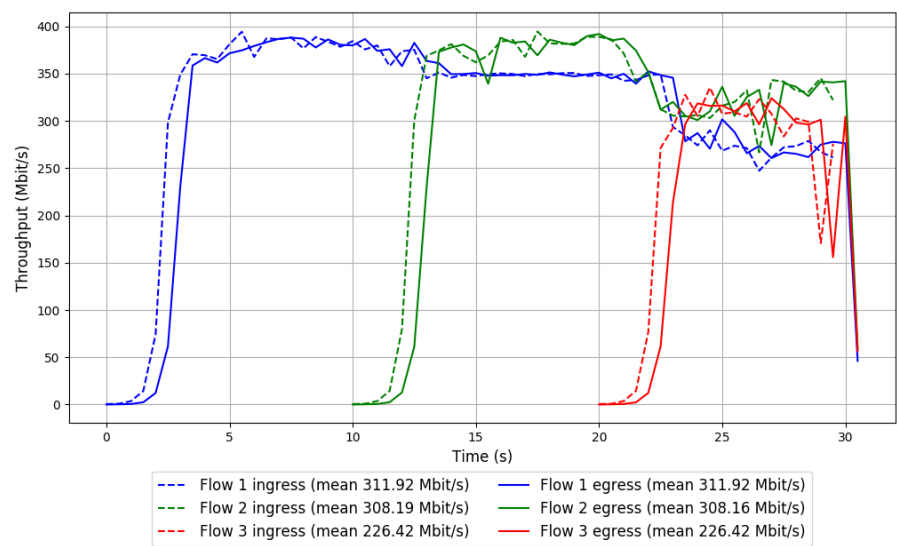


Run 3: Statistics of Copa

Start at: 2018-09-25 10:06:42
End at: 2018-09-25 10:07:12
Local clock offset: -0.27 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-09-25 12:20:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 592.46 Mbit/s
95th percentile per-packet one-way delay: 162.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 311.92 Mbit/s
95th percentile per-packet one-way delay: 143.330 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 308.16 Mbit/s
95th percentile per-packet one-way delay: 182.185 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 226.42 Mbit/s
95th percentile per-packet one-way delay: 150.754 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

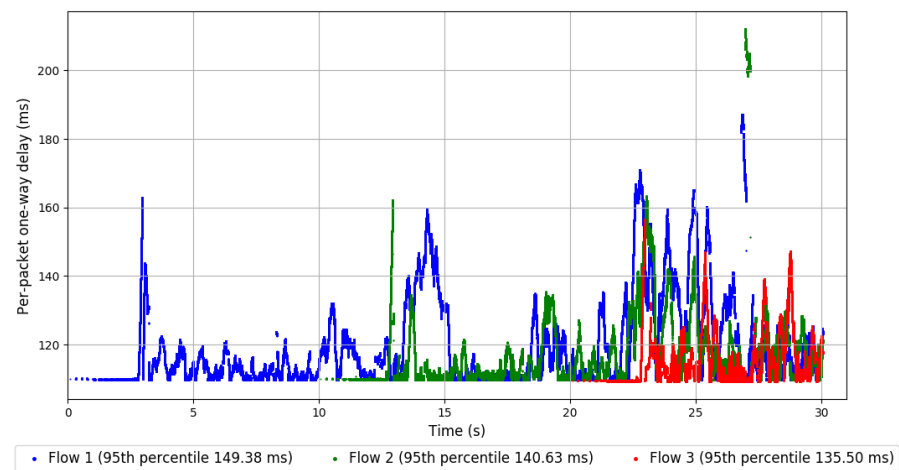
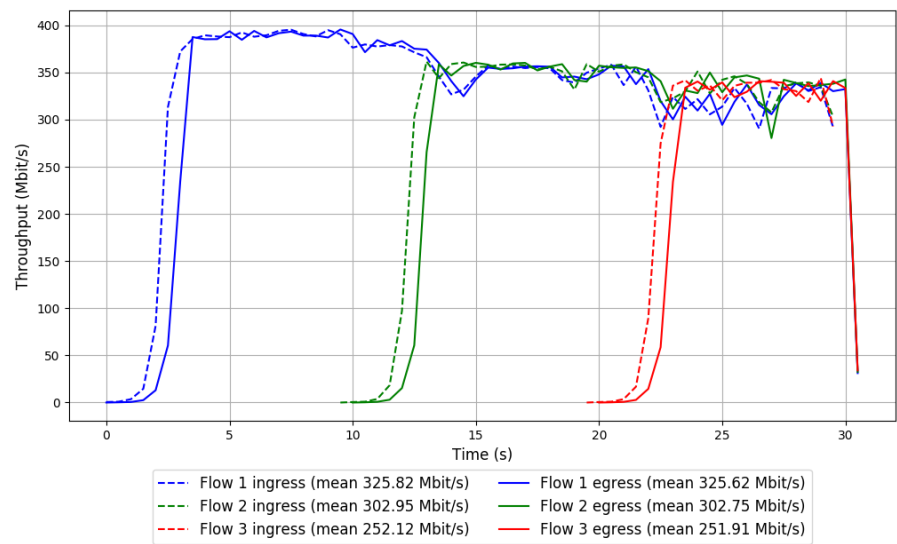


Run 4: Statistics of Copa

Start at: 2018-09-25 10:41:51
End at: 2018-09-25 10:42:21
Local clock offset: 0.475 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-09-25 12:33:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 611.46 Mbit/s
95th percentile per-packet one-way delay: 144.594 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 325.62 Mbit/s
95th percentile per-packet one-way delay: 149.380 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 302.75 Mbit/s
95th percentile per-packet one-way delay: 140.628 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 251.91 Mbit/s
95th percentile per-packet one-way delay: 135.496 ms
Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-09-25 11:16:59

End at: 2018-09-25 11:17:29

Local clock offset: -0.934 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-09-25 12:33:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.83 Mbit/s

95th percentile per-packet one-way delay: 121.483 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 275.67 Mbit/s

95th percentile per-packet one-way delay: 126.291 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 291.11 Mbit/s

95th percentile per-packet one-way delay: 117.239 ms

Loss rate: 0.00%

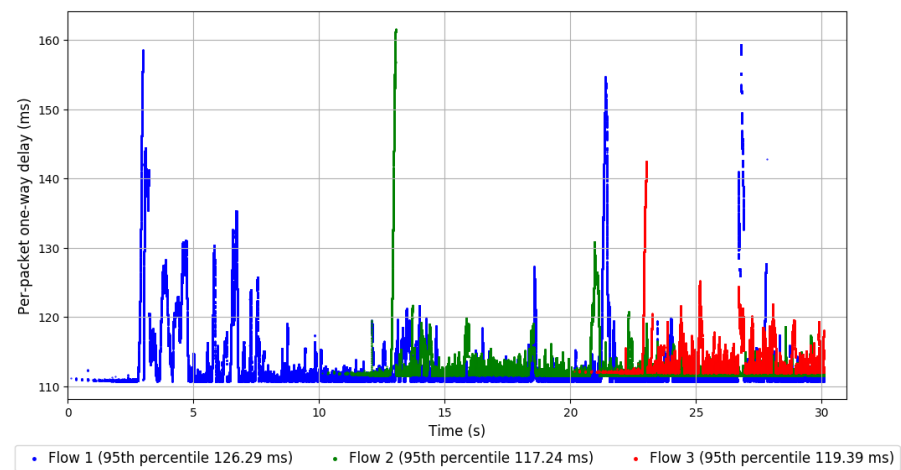
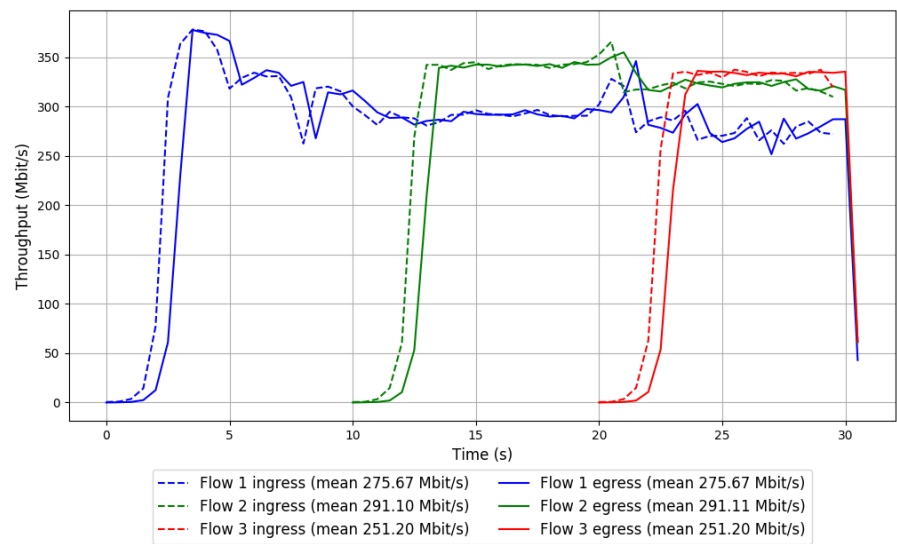
-- Flow 3:

Average throughput: 251.20 Mbit/s

95th percentile per-packet one-way delay: 119.388 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-09-25 09:07:26

End at: 2018-09-25 09:07:56

Local clock offset: 0.396 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-09-25 12:33:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.45 Mbit/s

95th percentile per-packet one-way delay: 178.916 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 433.39 Mbit/s

95th percentile per-packet one-way delay: 173.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 511.56 Mbit/s

95th percentile per-packet one-way delay: 186.697 ms

Loss rate: 0.07%

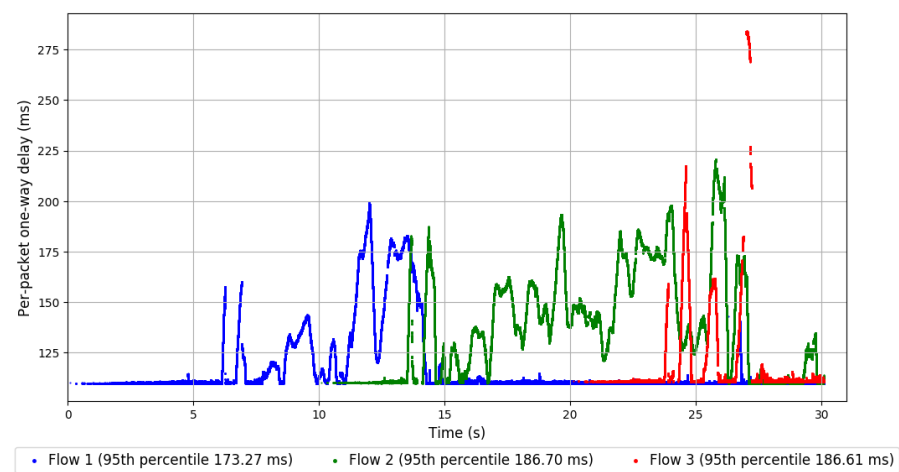
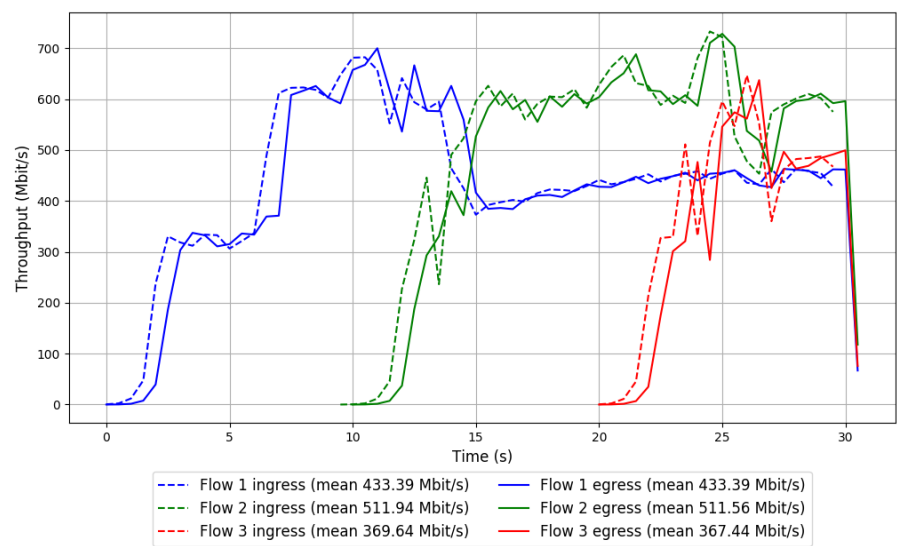
-- Flow 3:

Average throughput: 367.44 Mbit/s

95th percentile per-packet one-way delay: 186.608 ms

Loss rate: 0.61%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-09-25 09:42:46

End at: 2018-09-25 09:43:16

Local clock offset: -0.382 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-09-25 12:33:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 900.40 Mbit/s

95th percentile per-packet one-way delay: 166.367 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 488.40 Mbit/s

95th percentile per-packet one-way delay: 178.032 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 448.10 Mbit/s

95th percentile per-packet one-way delay: 137.687 ms

Loss rate: 0.04%

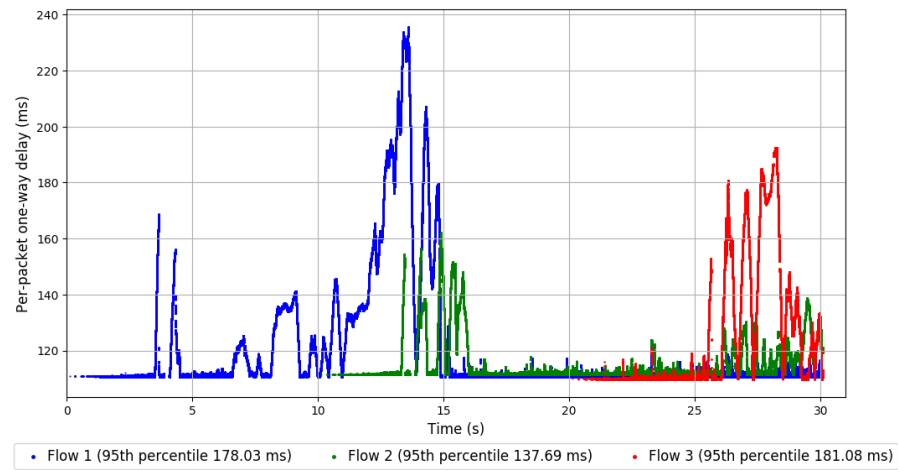
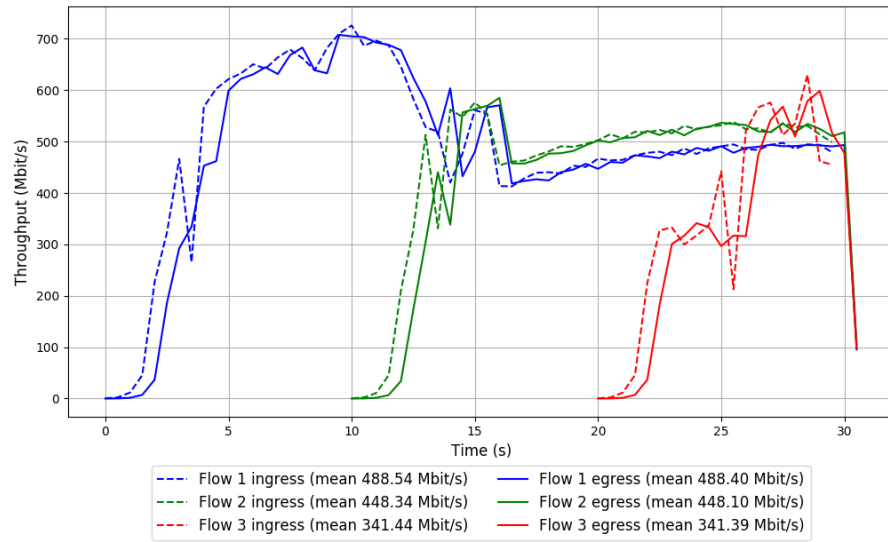
-- Flow 3:

Average throughput: 341.39 Mbit/s

95th percentile per-packet one-way delay: 181.083 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-09-25 10:18:07

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

Local clock offset: -1.301 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-09-25 12:33:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.70 Mbit/s

95th percentile per-packet one-way delay: 184.533 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 493.00 Mbit/s

95th percentile per-packet one-way delay: 185.975 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 519.52 Mbit/s

95th percentile per-packet one-way delay: 184.819 ms

Loss rate: 0.48%

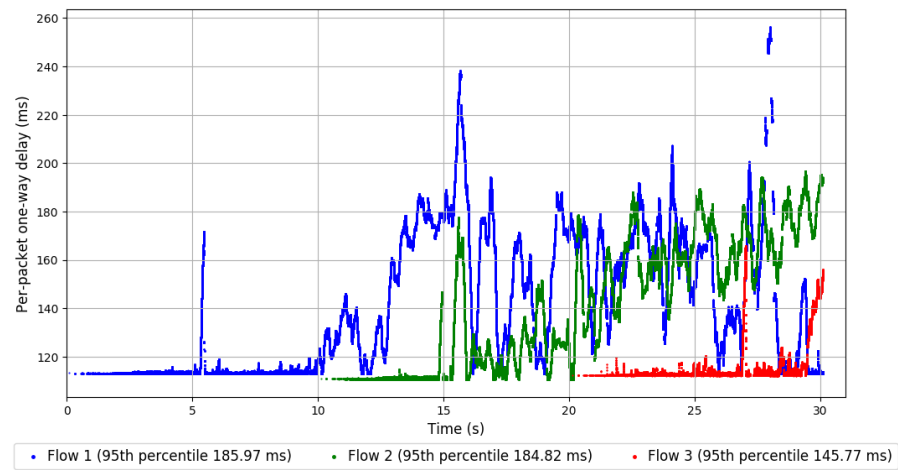
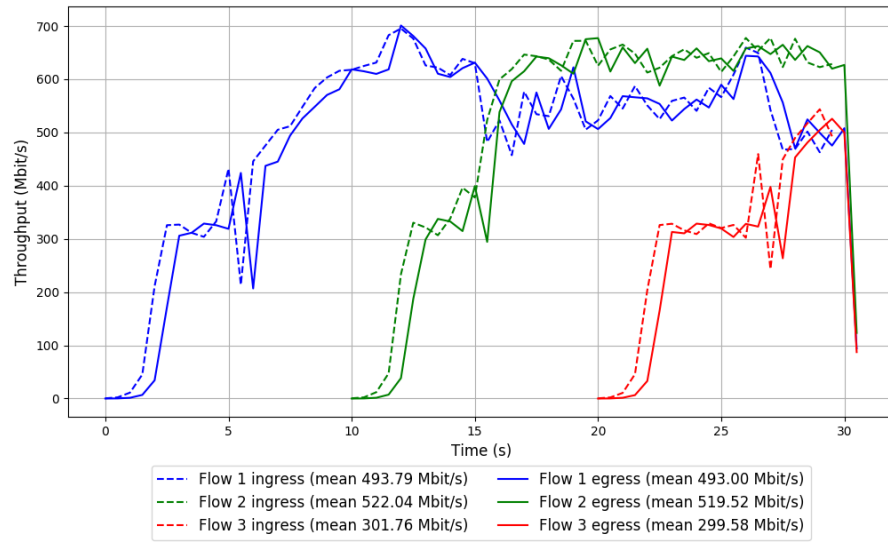
-- Flow 3:

Average throughput: 299.58 Mbit/s

95th percentile per-packet one-way delay: 145.767 ms

Loss rate: 0.72%

Run 3: Report of TCP Cubic — Data Link

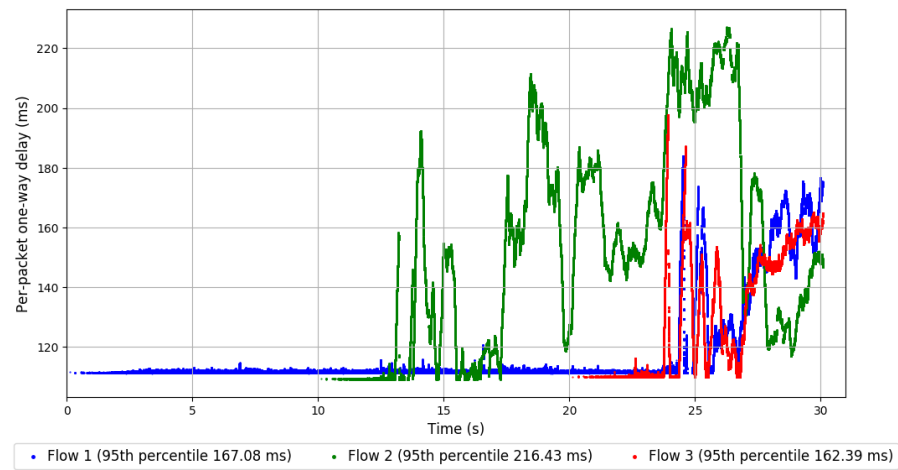
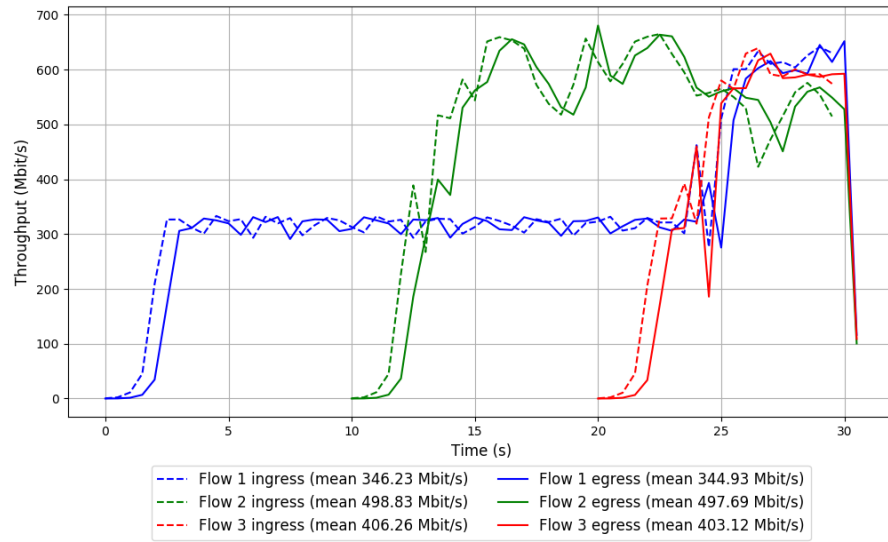


Run 4: Statistics of TCP Cubic

Start at: 2018-09-25 10:53:21
End at: 2018-09-25 10:53:51
Local clock offset: 0.667 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-09-25 12:33:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 810.45 Mbit/s
95th percentile per-packet one-way delay: 205.994 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 344.93 Mbit/s
95th percentile per-packet one-way delay: 167.083 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 497.69 Mbit/s
95th percentile per-packet one-way delay: 216.429 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 403.12 Mbit/s
95th percentile per-packet one-way delay: 162.386 ms
Loss rate: 0.77%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-09-25 11:28:27

End at: 2018-09-25 11:28:57

Local clock offset: -0.373 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-09-25 12:35:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 977.37 Mbit/s

95th percentile per-packet one-way delay: 198.981 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 553.83 Mbit/s

95th percentile per-packet one-way delay: 202.260 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 468.13 Mbit/s

95th percentile per-packet one-way delay: 159.412 ms

Loss rate: 0.03%

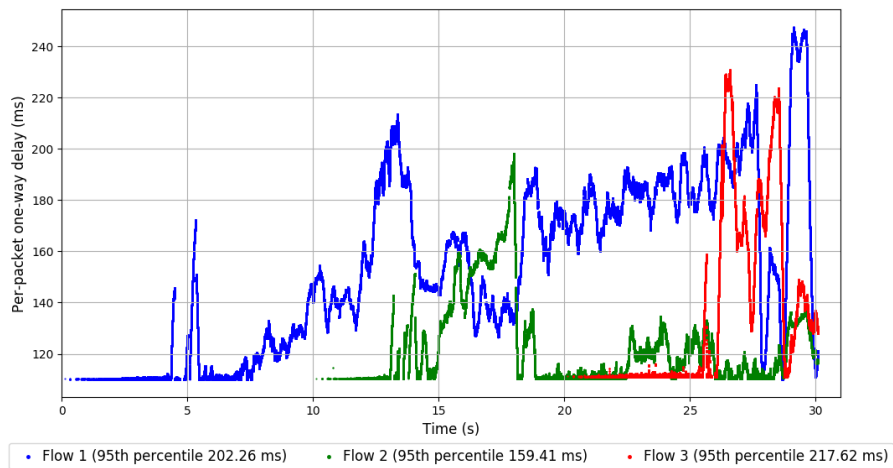
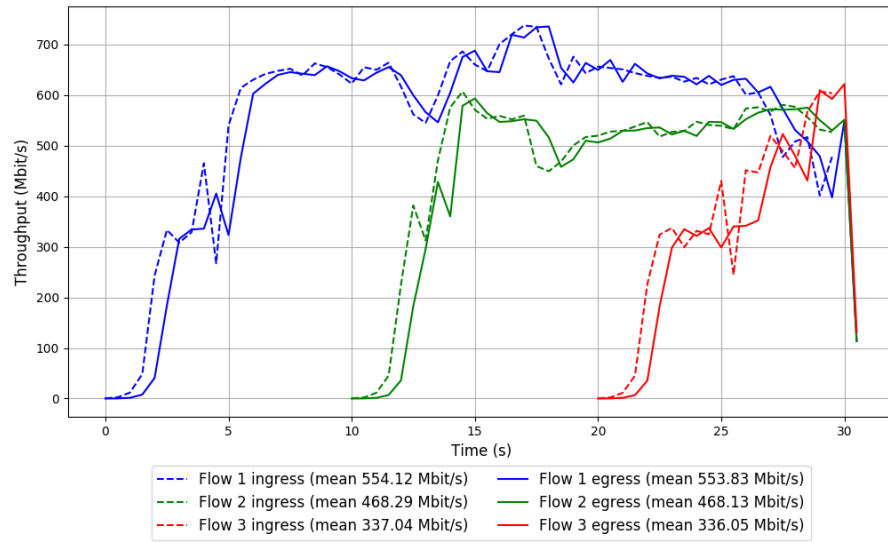
-- Flow 3:

Average throughput: 336.05 Mbit/s

95th percentile per-packet one-way delay: 217.622 ms

Loss rate: 0.29%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-09-25 09:01:29

End at: 2018-09-25 09:01:59

Local clock offset: 0.299 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2018-09-25 12:43:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1352.66 Mbit/s

95th percentile per-packet one-way delay: 228.618 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 738.75 Mbit/s

95th percentile per-packet one-way delay: 236.630 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 656.82 Mbit/s

95th percentile per-packet one-way delay: 233.523 ms

Loss rate: 1.67%

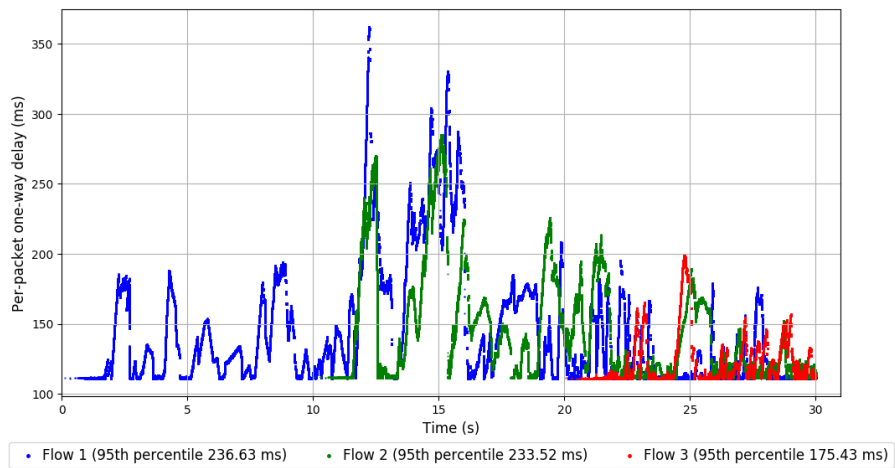
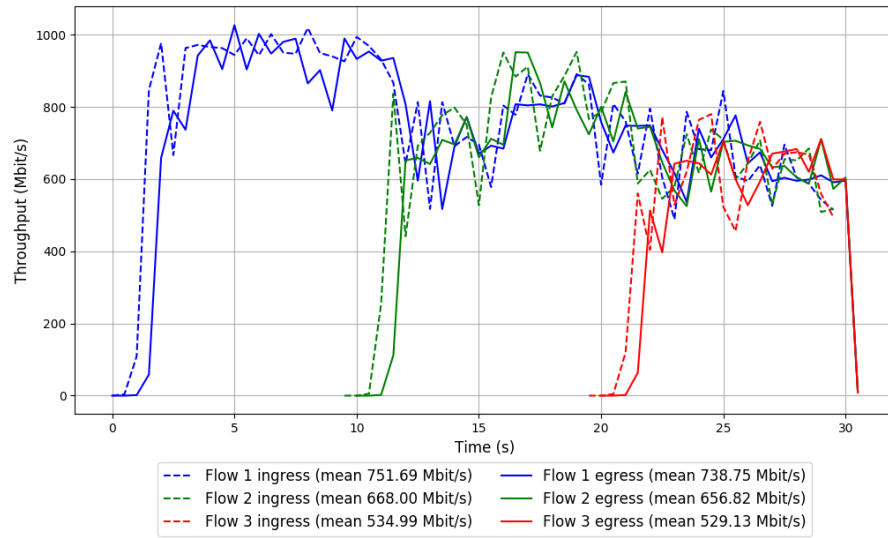
-- Flow 3:

Average throughput: 529.13 Mbit/s

95th percentile per-packet one-way delay: 175.428 ms

Loss rate: 1.10%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-09-25 09:36:52

End at: 2018-09-25 09:37:22

Local clock offset: 0.136 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-09-25 12:56:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 1292.36 Mbit/s

95th percentile per-packet one-way delay: 190.202 ms

Loss rate: 4.27%

-- Flow 1:

Average throughput: 655.45 Mbit/s

95th percentile per-packet one-way delay: 200.607 ms

Loss rate: 6.85%

-- Flow 2:

Average throughput: 718.10 Mbit/s

95th percentile per-packet one-way delay: 170.753 ms

Loss rate: 1.19%

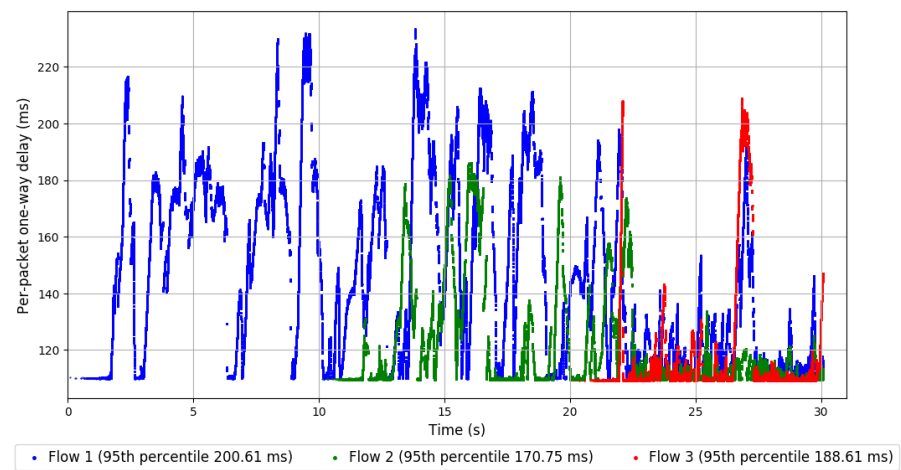
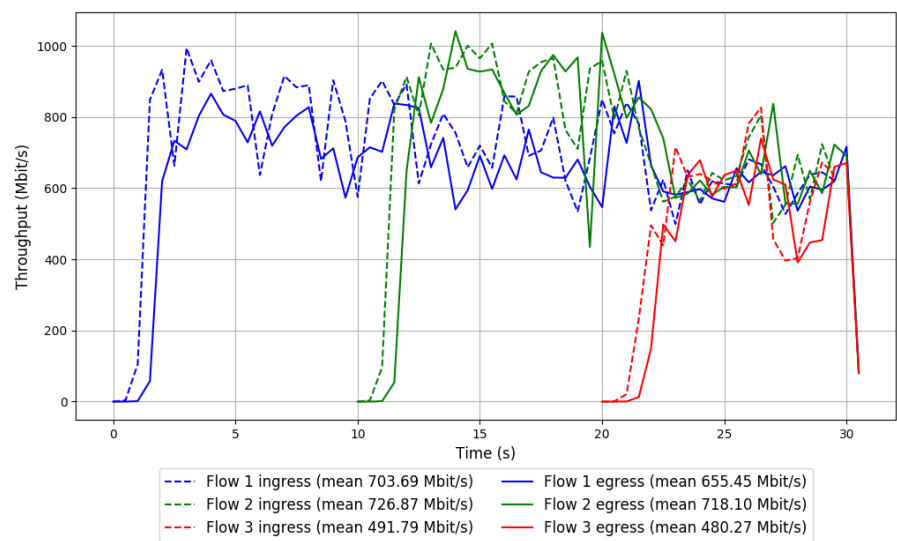
-- Flow 3:

Average throughput: 480.27 Mbit/s

95th percentile per-packet one-way delay: 188.614 ms

Loss rate: 2.31%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-09-25 10:12:15

End at: 2018-09-25 10:12:45

Local clock offset: 0.292 ms

Remote clock offset: 0.327 ms

Below is generated by plot.py at 2018-09-25 12:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 1295.76 Mbit/s

95th percentile per-packet one-way delay: 182.023 ms

Loss rate: 3.25%

-- Flow 1:

Average throughput: 695.29 Mbit/s

95th percentile per-packet one-way delay: 187.104 ms

Loss rate: 4.81%

-- Flow 2:

Average throughput: 659.97 Mbit/s

95th percentile per-packet one-way delay: 174.568 ms

Loss rate: 1.82%

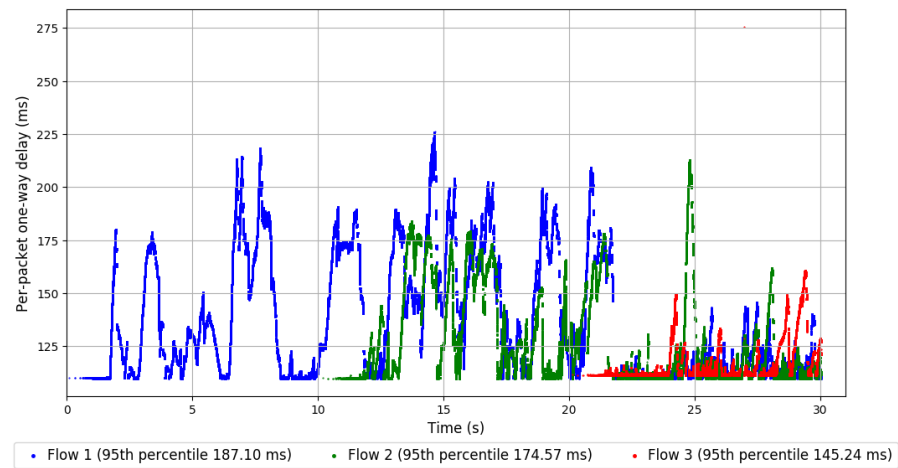
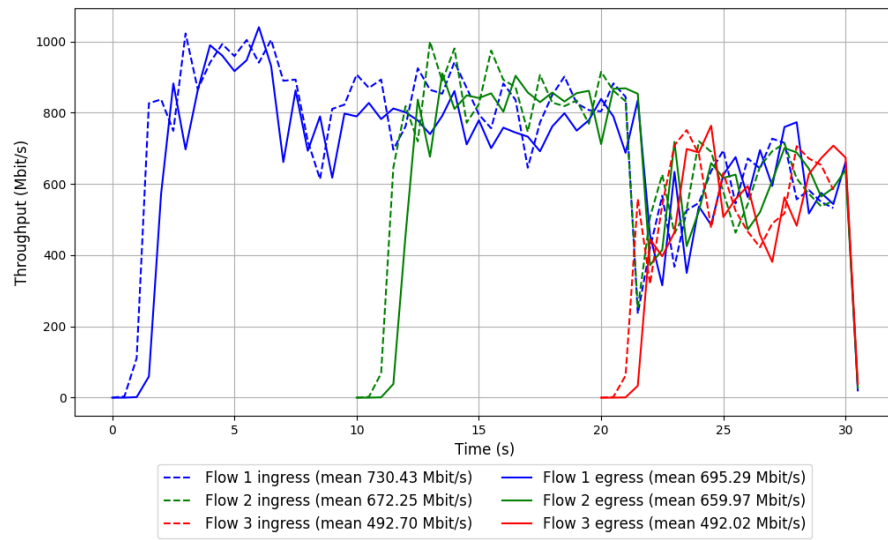
-- Flow 3:

Average throughput: 492.02 Mbit/s

95th percentile per-packet one-way delay: 145.239 ms

Loss rate: 0.13%

Run 3: Report of FillP — Data Link

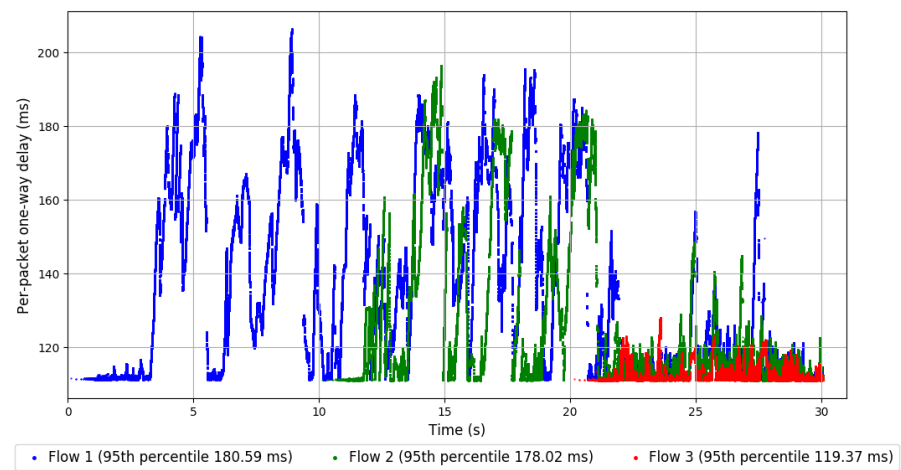
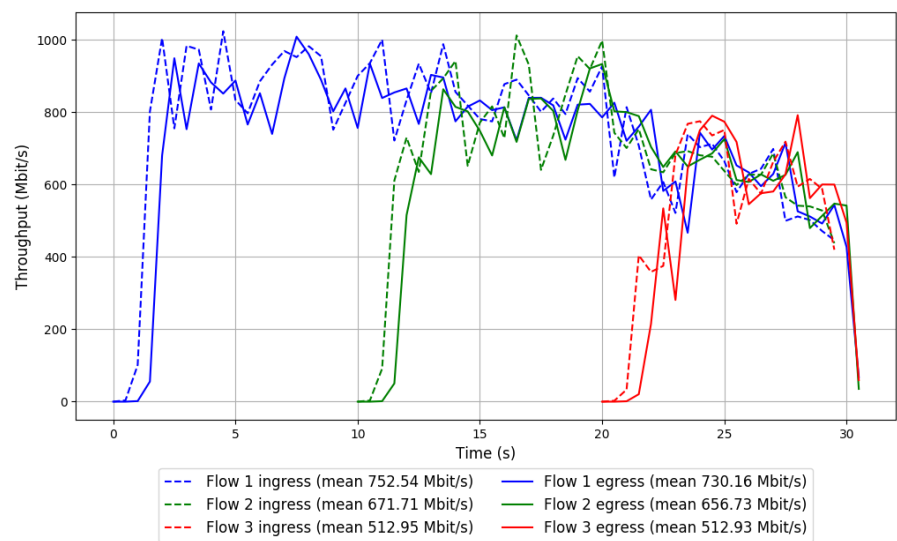


Run 4: Statistics of FillP

Start at: 2018-09-25 10:47:25
End at: 2018-09-25 10:47:55
Local clock offset: -0.474 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-09-25 12:57:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 1336.73 Mbit/s
95th percentile per-packet one-way delay: 178.483 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 730.16 Mbit/s
95th percentile per-packet one-way delay: 180.585 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 656.73 Mbit/s
95th percentile per-packet one-way delay: 178.024 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 512.93 Mbit/s
95th percentile per-packet one-way delay: 119.374 ms
Loss rate: 0.00%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-09-25 11:22:26

End at: 2018-09-25 11:22:56

Local clock offset: 0.102 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-09-25 12:59:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 1377.33 Mbit/s

95th percentile per-packet one-way delay: 177.706 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 741.34 Mbit/s

95th percentile per-packet one-way delay: 183.884 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 671.92 Mbit/s

95th percentile per-packet one-way delay: 173.836 ms

Loss rate: 1.17%

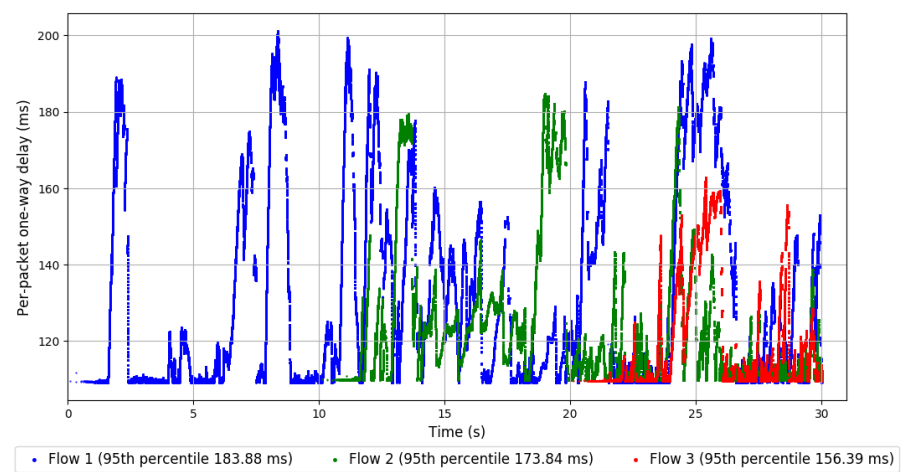
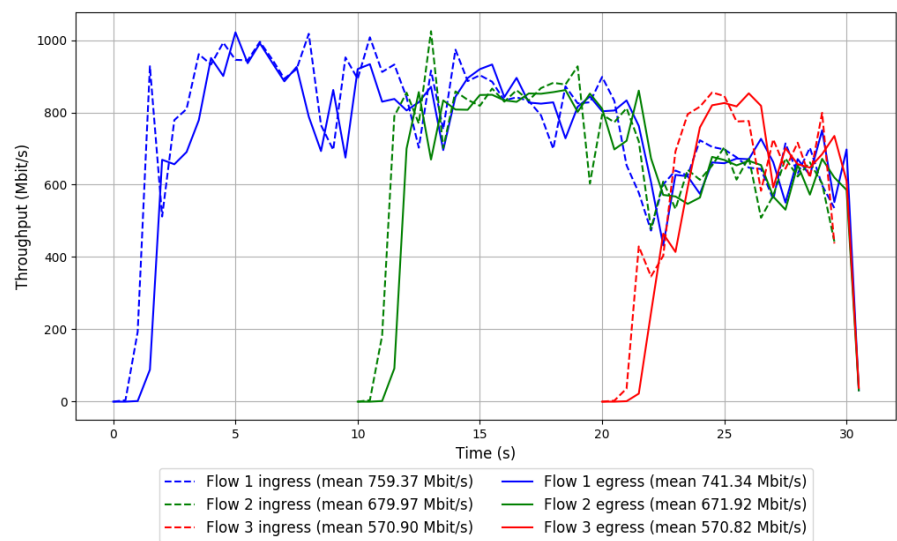
-- Flow 3:

Average throughput: 570.82 Mbit/s

95th percentile per-packet one-way delay: 156.389 ms

Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-09-25 09:14:16

End at: 2018-09-25 09:14:46

Local clock offset: 0.555 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-09-25 12:59:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 1319.72 Mbit/s

95th percentile per-packet one-way delay: 169.001 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 722.96 Mbit/s

95th percentile per-packet one-way delay: 168.792 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 653.45 Mbit/s

95th percentile per-packet one-way delay: 176.696 ms

Loss rate: 1.61%

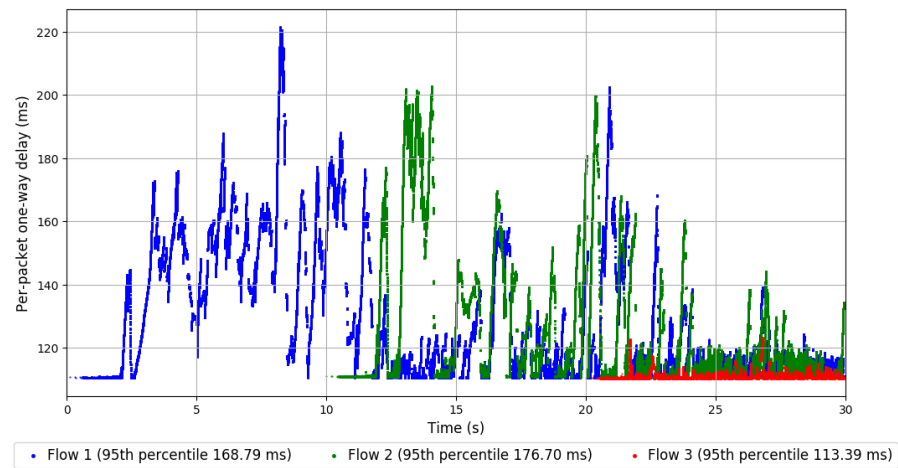
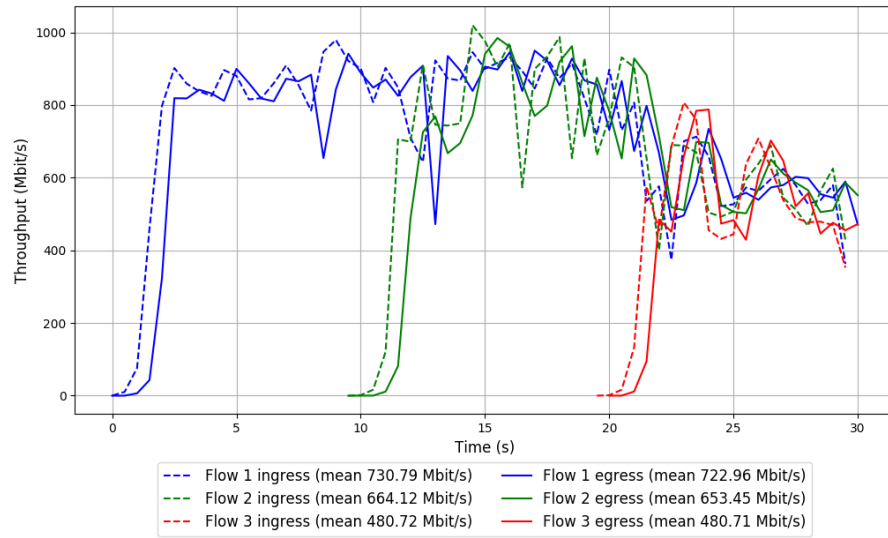
-- Flow 3:

Average throughput: 480.71 Mbit/s

95th percentile per-packet one-way delay: 113.392 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link

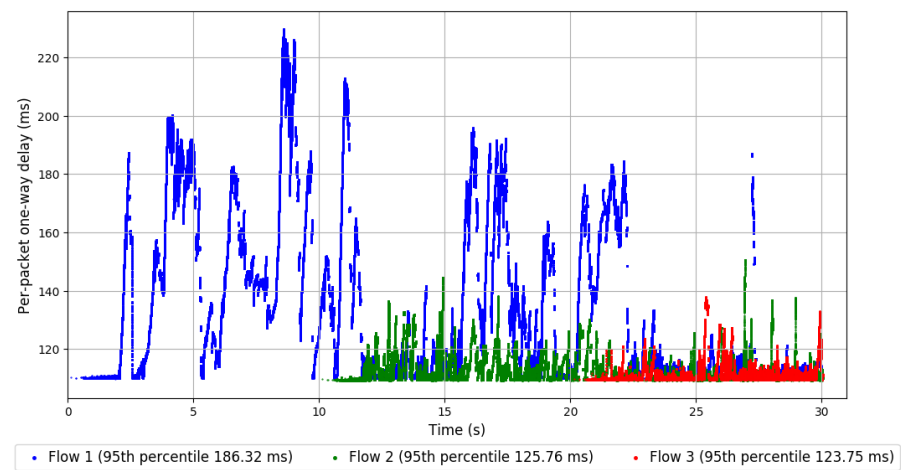
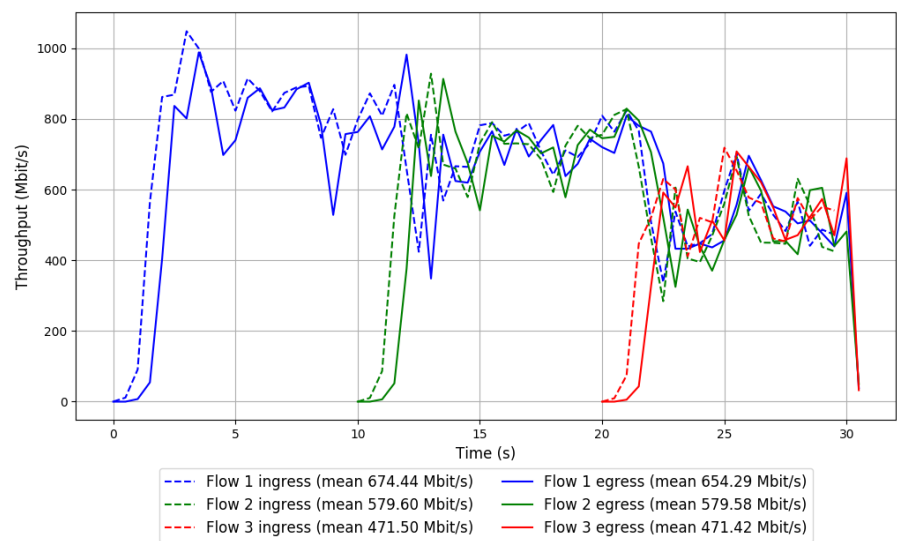


Run 2: Statistics of FillP-Sheep

Start at: 2018-09-25 09:49:47
End at: 2018-09-25 09:50:17
Local clock offset: 1.011 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-09-25 12:59:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 1195.77 Mbit/s
95th percentile per-packet one-way delay: 178.905 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 654.29 Mbit/s
95th percentile per-packet one-way delay: 186.317 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 579.58 Mbit/s
95th percentile per-packet one-way delay: 125.762 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 471.42 Mbit/s
95th percentile per-packet one-way delay: 123.750 ms
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-09-25 10:24:55

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

Local clock offset: 0.071 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-09-25 13:01:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 1271.47 Mbit/s

95th percentile per-packet one-way delay: 186.042 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 715.65 Mbit/s

95th percentile per-packet one-way delay: 177.067 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 586.10 Mbit/s

95th percentile per-packet one-way delay: 193.272 ms

Loss rate: 2.39%

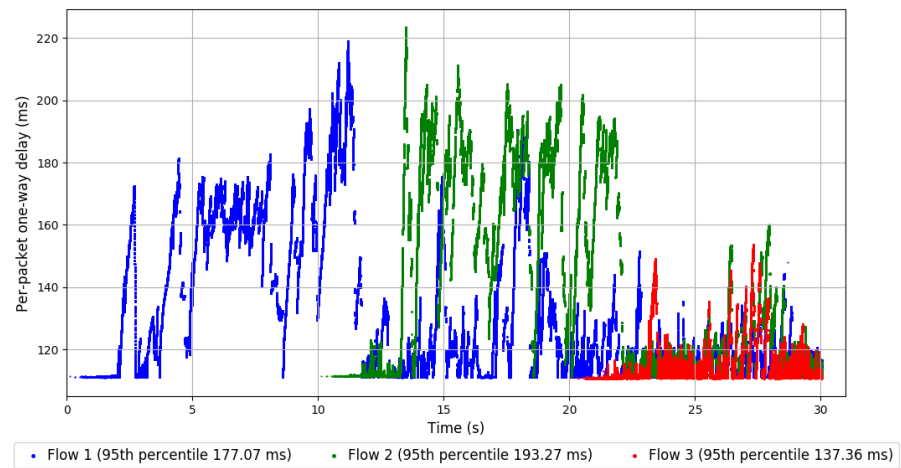
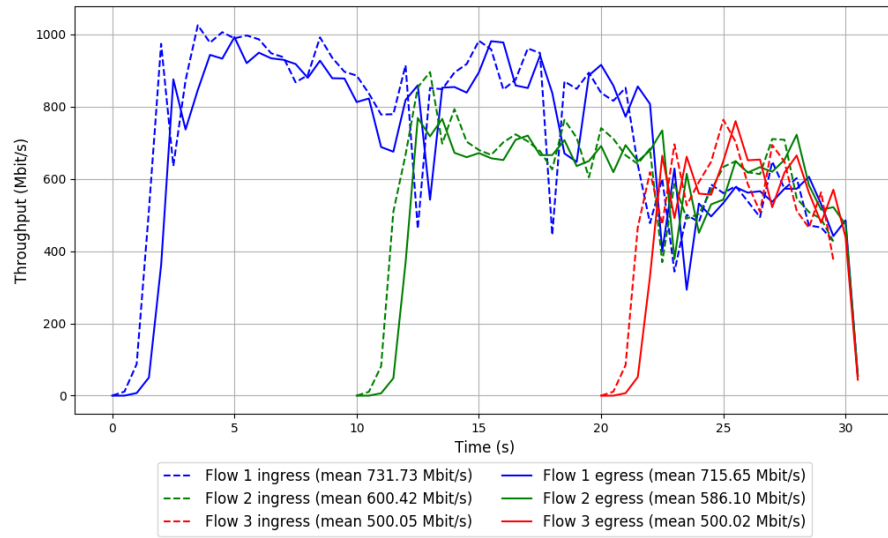
-- Flow 3:

Average throughput: 500.02 Mbit/s

95th percentile per-packet one-way delay: 137.357 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-09-25 11:00:12

End at: 2018-09-25 11:00:42

Local clock offset: -0.275 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-09-25 13:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 1369.15 Mbit/s

95th percentile per-packet one-way delay: 166.245 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 760.97 Mbit/s

95th percentile per-packet one-way delay: 170.120 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 653.77 Mbit/s

95th percentile per-packet one-way delay: 155.020 ms

Loss rate: 0.41%

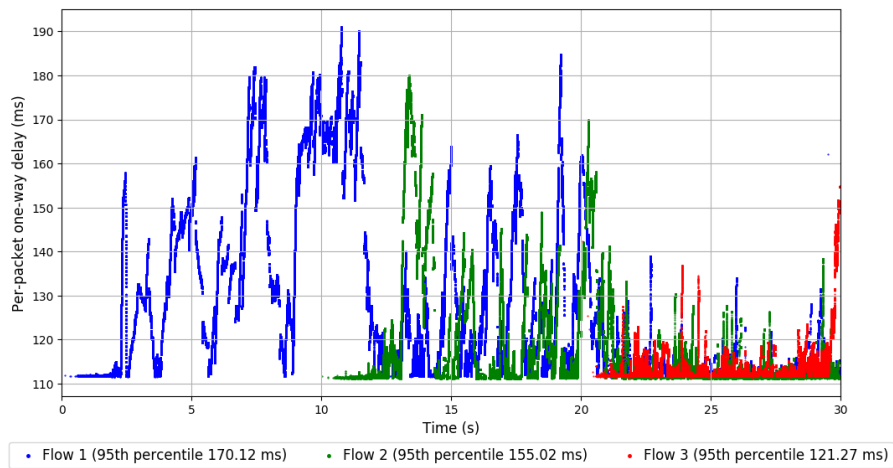
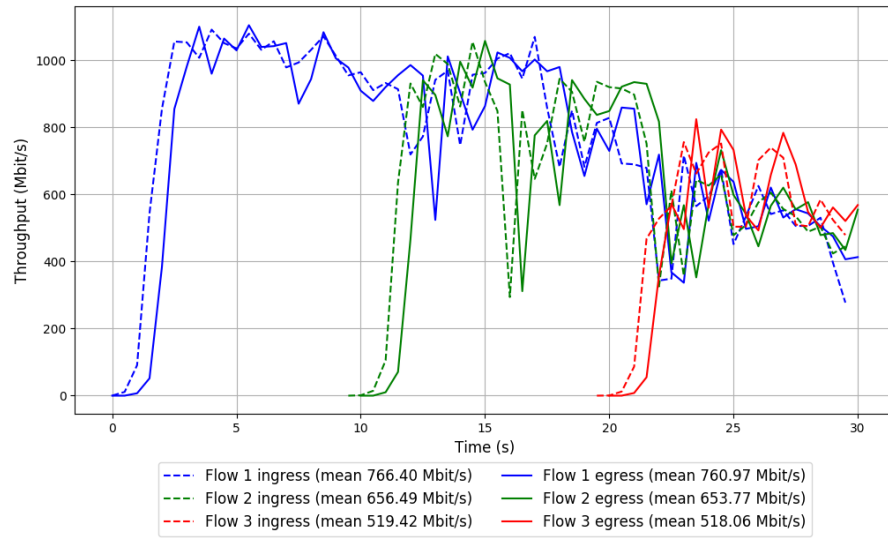
-- Flow 3:

Average throughput: 518.06 Mbit/s

95th percentile per-packet one-way delay: 121.272 ms

Loss rate: 0.56%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-09-25 11:35:26

End at: 2018-09-25 11:35:56

Local clock offset: -1.612 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 1263.02 Mbit/s

95th percentile per-packet one-way delay: 181.358 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 660.76 Mbit/s

95th percentile per-packet one-way delay: 187.619 ms

Loss rate: 3.13%

-- Flow 2:

Average throughput: 658.46 Mbit/s

95th percentile per-packet one-way delay: 172.258 ms

Loss rate: 1.02%

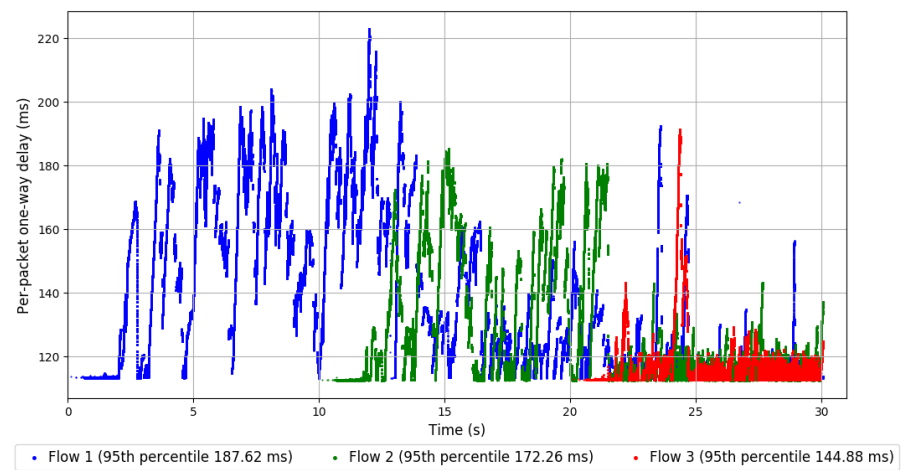
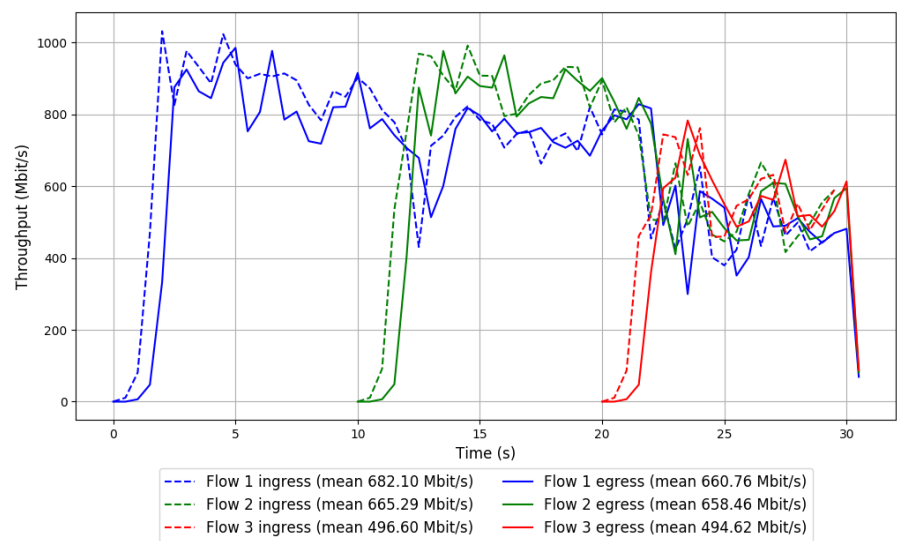
-- Flow 3:

Average throughput: 494.62 Mbit/s

95th percentile per-packet one-way delay: 144.884 ms

Loss rate: 0.37%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-09-25 08:50:07

End at: 2018-09-25 08:50:37

Local clock offset: 0.039 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.34 Mbit/s

95th percentile per-packet one-way delay: 111.028 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.38 Mbit/s

95th percentile per-packet one-way delay: 111.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 216.74 Mbit/s

95th percentile per-packet one-way delay: 110.755 ms

Loss rate: 0.00%

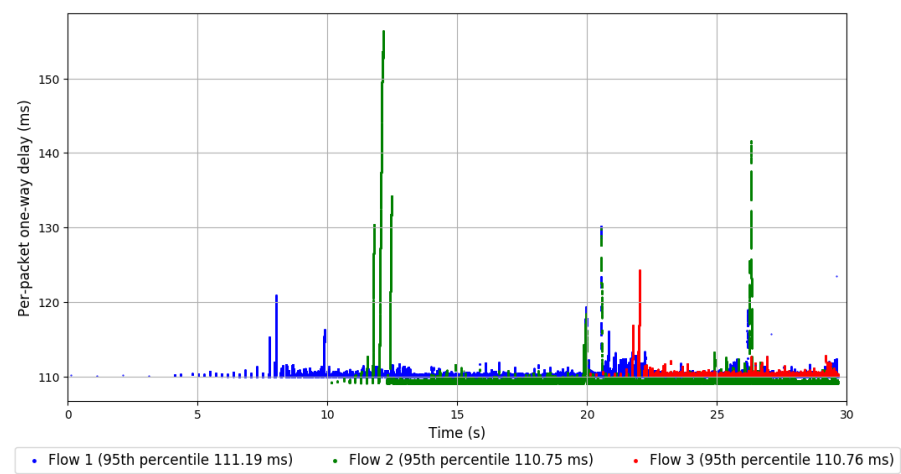
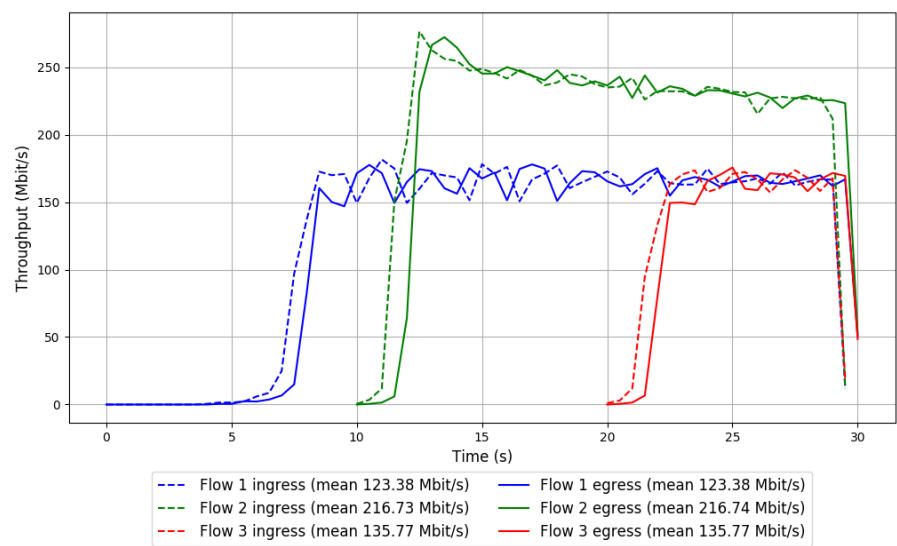
-- Flow 3:

Average throughput: 135.77 Mbit/s

95th percentile per-packet one-way delay: 110.762 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-09-25 09:24:48

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

Local clock offset: -0.176 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.78 Mbit/s

95th percentile per-packet one-way delay: 113.666 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 160.33 Mbit/s

95th percentile per-packet one-way delay: 112.401 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 209.23 Mbit/s

95th percentile per-packet one-way delay: 114.298 ms

Loss rate: 0.00%

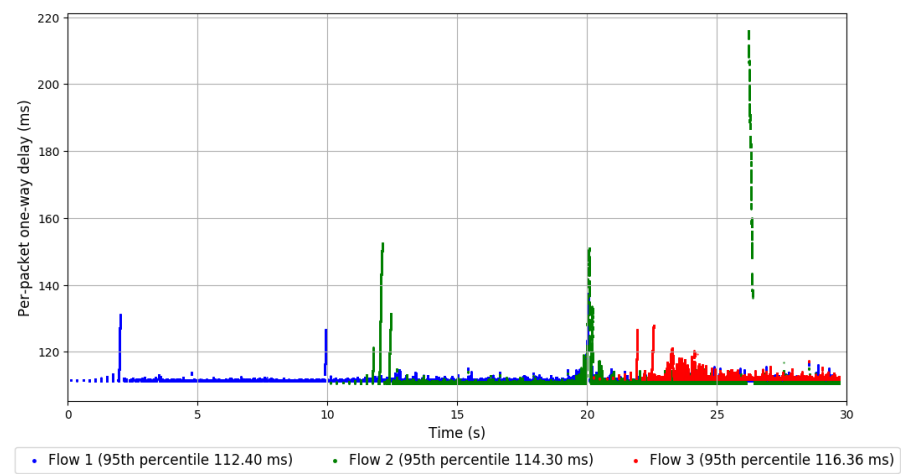
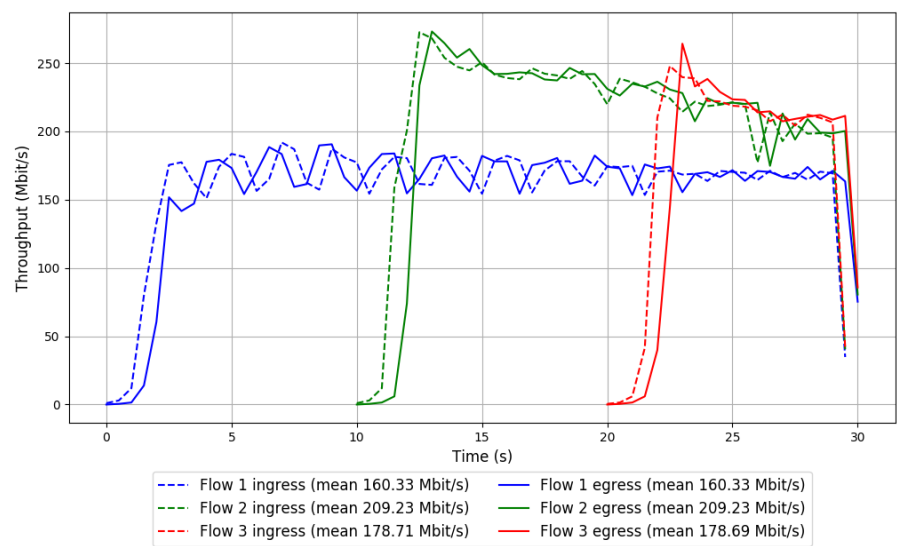
-- Flow 3:

Average throughput: 178.69 Mbit/s

95th percentile per-packet one-way delay: 116.361 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link

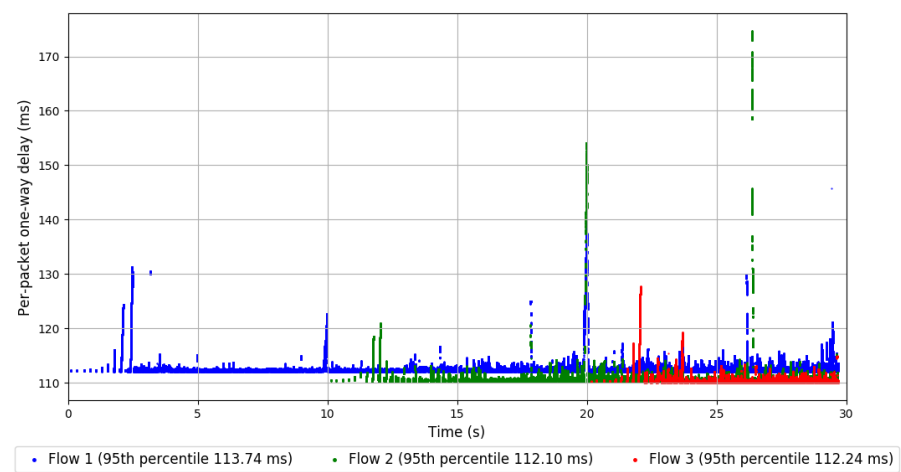
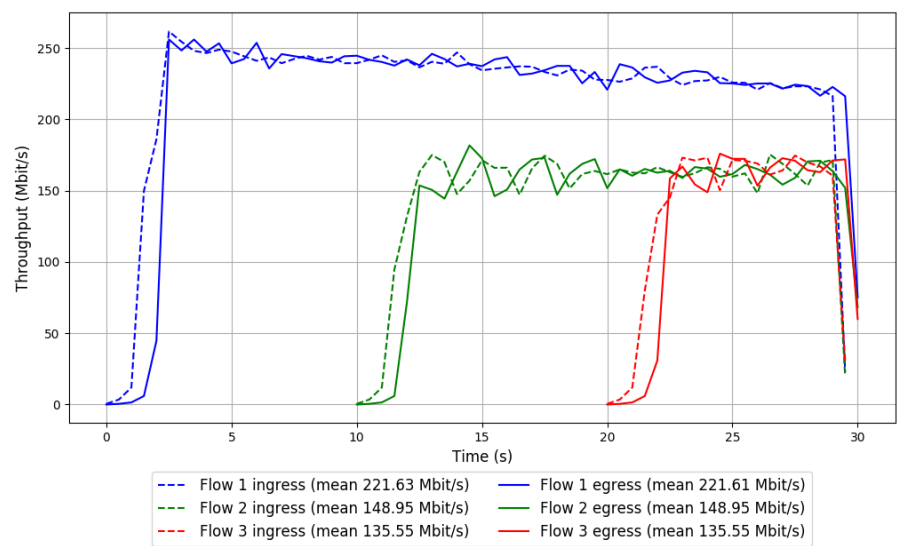


Run 3: Statistics of Indigo

Start at: 2018-09-25 10:00:10
End at: 2018-09-25 10:00:40
Local clock offset: 0.155 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-09-25 13:21:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.59 Mbit/s
95th percentile per-packet one-way delay: 113.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.61 Mbit/s
95th percentile per-packet one-way delay: 113.741 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.95 Mbit/s
95th percentile per-packet one-way delay: 112.099 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.55 Mbit/s
95th percentile per-packet one-way delay: 112.240 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-09-25 10:35:16

End at: 2018-09-25 10:35:46

Local clock offset: -0.094 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.85 Mbit/s

95th percentile per-packet one-way delay: 112.791 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 221.59 Mbit/s

95th percentile per-packet one-way delay: 112.037 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.51 Mbit/s

95th percentile per-packet one-way delay: 112.170 ms

Loss rate: 0.00%

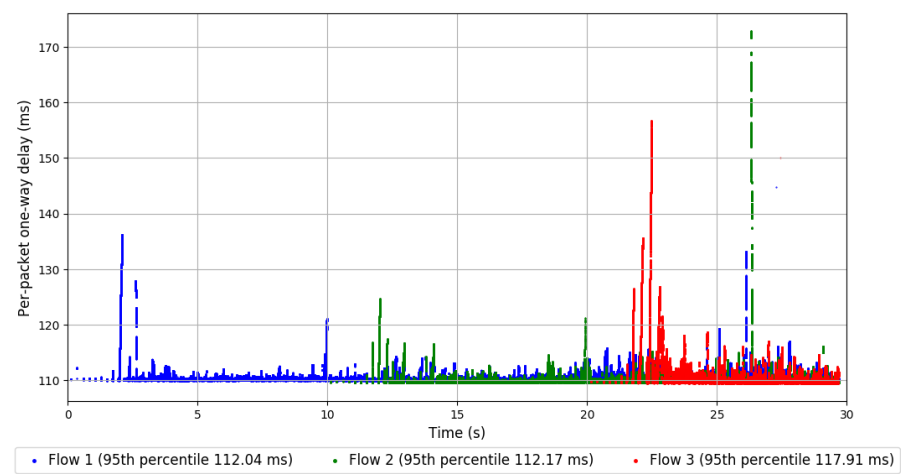
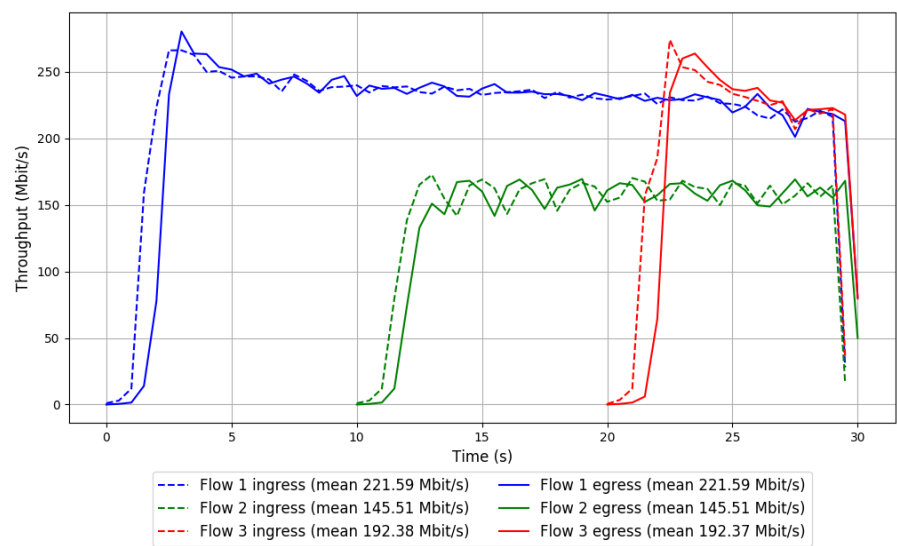
-- Flow 3:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 117.911 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-09-25 11:10:28

End at: 2018-09-25 11:10:58

Local clock offset: 1.275 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.36 Mbit/s

95th percentile per-packet one-way delay: 111.240 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 222.90 Mbit/s

95th percentile per-packet one-way delay: 110.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.58 Mbit/s

95th percentile per-packet one-way delay: 111.067 ms

Loss rate: 0.00%

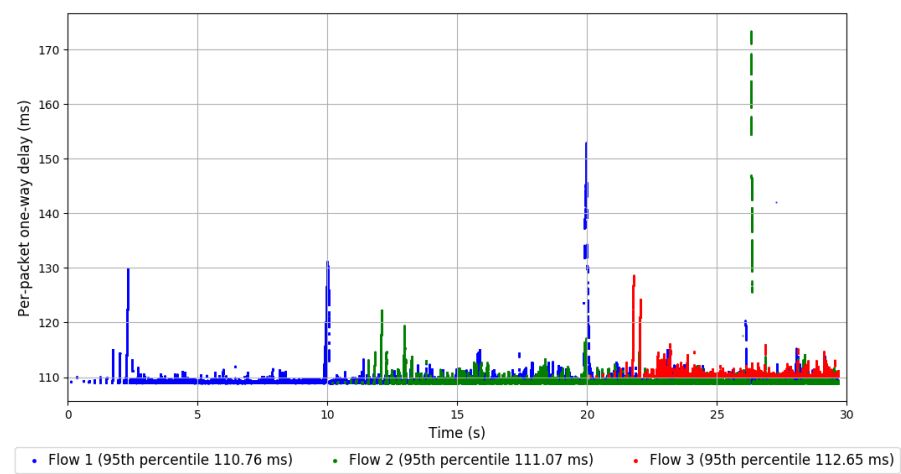
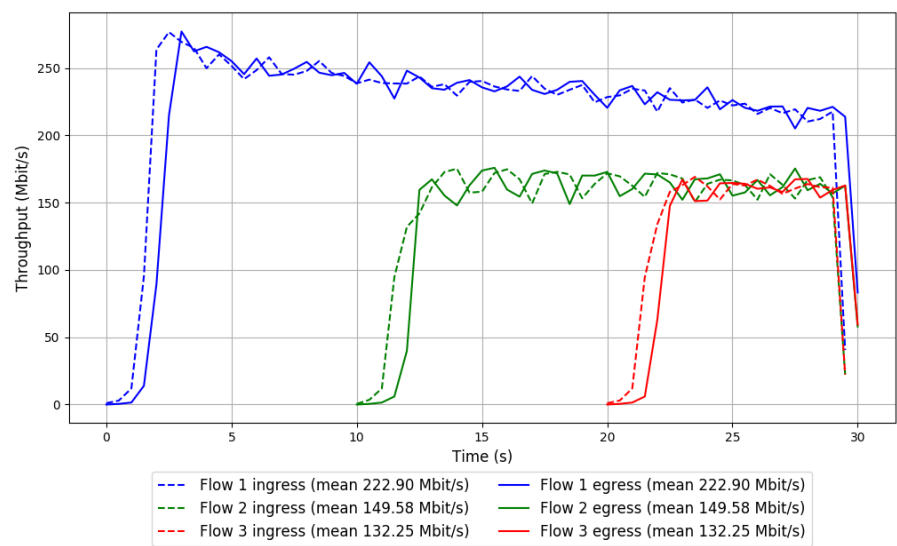
-- Flow 3:

Average throughput: 132.25 Mbit/s

95th percentile per-packet one-way delay: 112.648 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-25 09:03:47

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

Local clock offset: 0.039 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 536.94 Mbit/s

95th percentile per-packet one-way delay: 156.951 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 276.26 Mbit/s

95th percentile per-packet one-way delay: 154.392 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 270.74 Mbit/s

95th percentile per-packet one-way delay: 155.418 ms

Loss rate: 0.00%

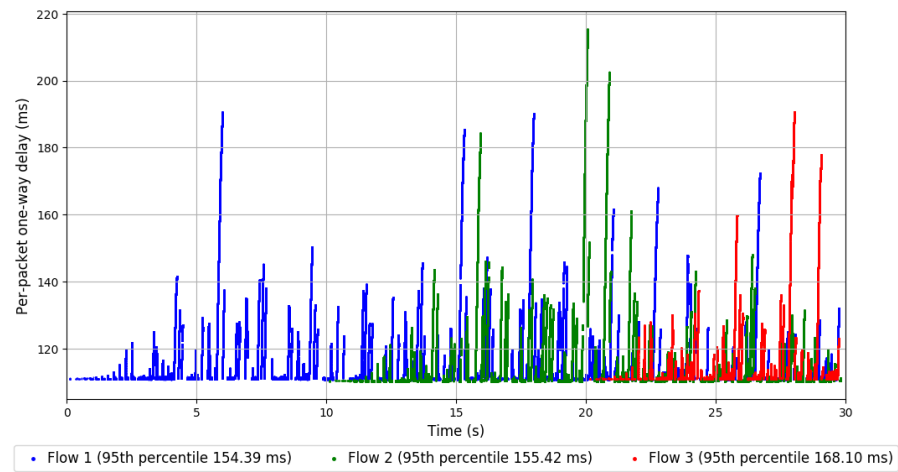
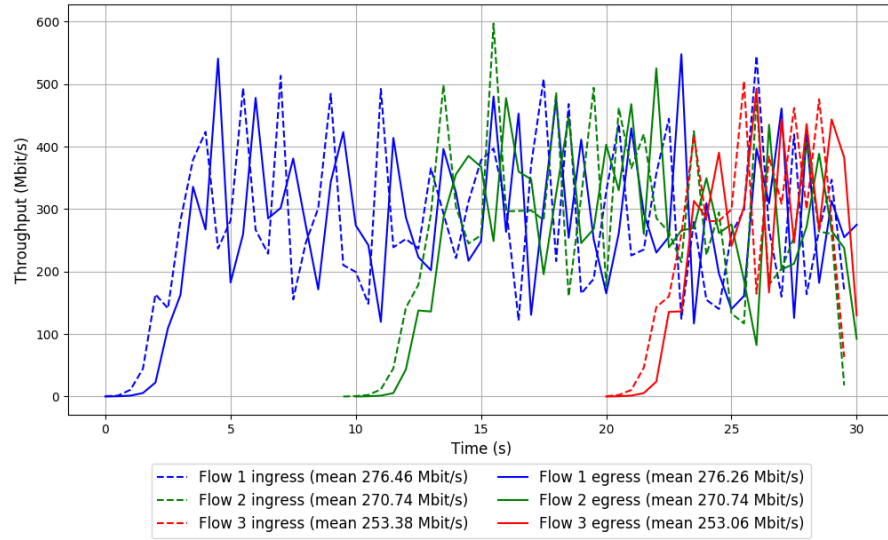
-- Flow 3:

Average throughput: 253.06 Mbit/s

95th percentile per-packet one-way delay: 168.096 ms

Loss rate: 0.00%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-25 09:39:07

End at: 2018-09-25 09:39:37

Local clock offset: 0.23 ms

Remote clock offset: 0.338 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.54 Mbit/s

95th percentile per-packet one-way delay: 146.451 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 269.11 Mbit/s

95th percentile per-packet one-way delay: 146.992 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 252.27 Mbit/s

95th percentile per-packet one-way delay: 145.797 ms

Loss rate: 0.09%

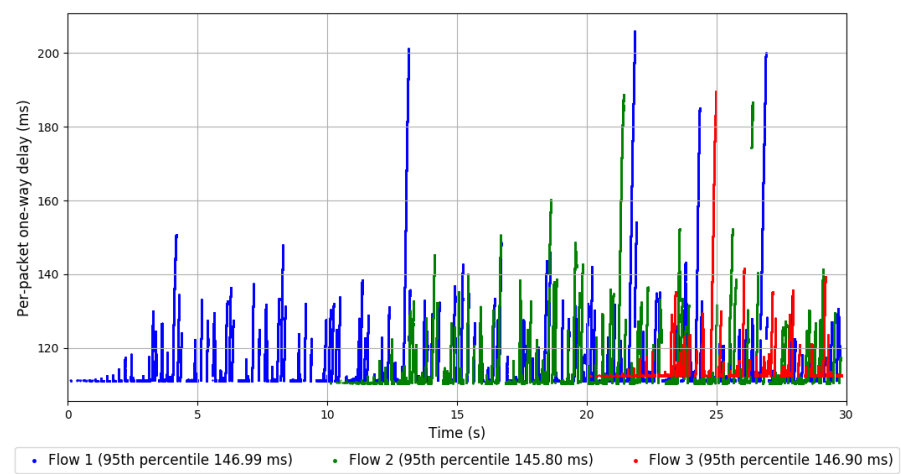
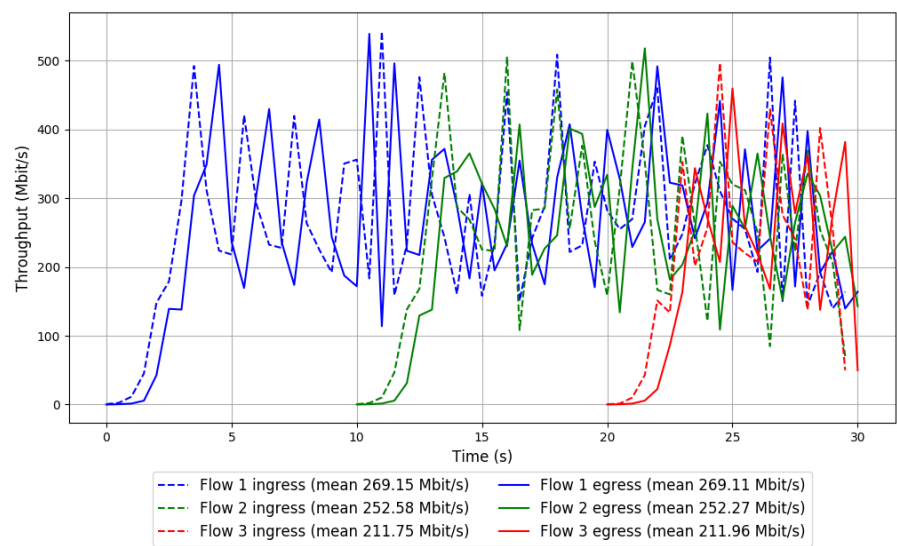
-- Flow 3:

Average throughput: 211.96 Mbit/s

95th percentile per-packet one-way delay: 146.902 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-25 10:14:31

End at: 2018-09-25 10:15:01

Local clock offset: -0.386 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 501.06 Mbit/s

95th percentile per-packet one-way delay: 167.026 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 286.30 Mbit/s

95th percentile per-packet one-way delay: 178.476 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 229.17 Mbit/s

95th percentile per-packet one-way delay: 146.126 ms

Loss rate: 0.00%

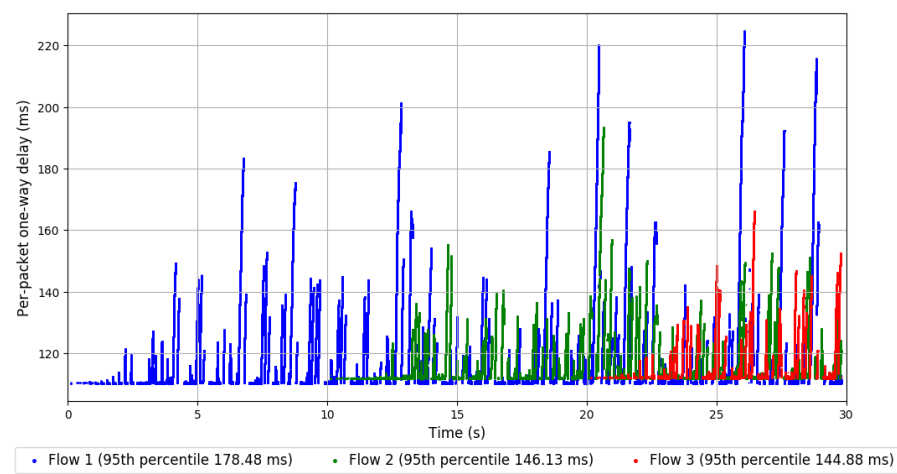
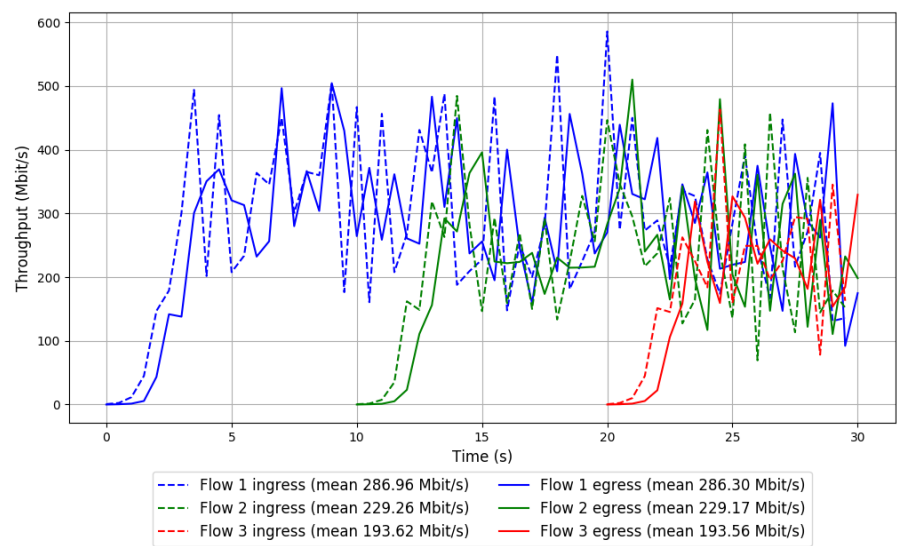
-- Flow 3:

Average throughput: 193.56 Mbit/s

95th percentile per-packet one-way delay: 144.882 ms

Loss rate: 0.05%

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



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-25 10:49:44

End at: 2018-09-25 10:50:14

Local clock offset: -0.483 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.82 Mbit/s

95th percentile per-packet one-way delay: 148.992 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 251.72 Mbit/s

95th percentile per-packet one-way delay: 147.891 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 248.61 Mbit/s

95th percentile per-packet one-way delay: 150.430 ms

Loss rate: 0.00%

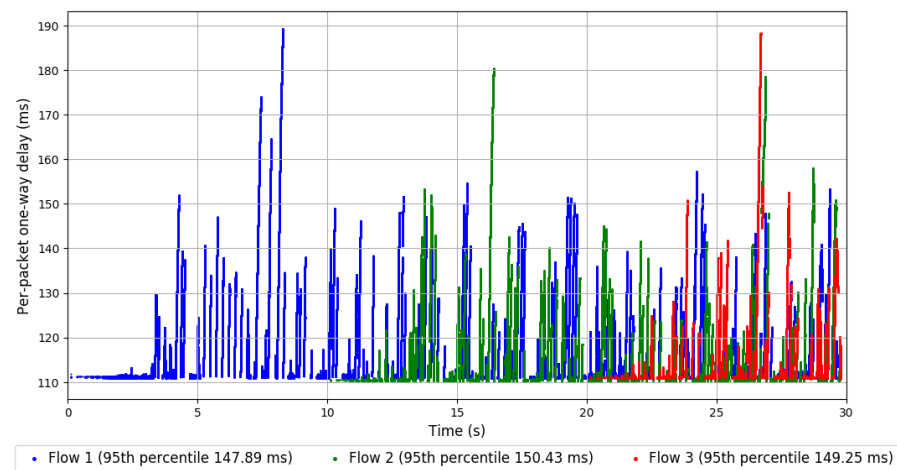
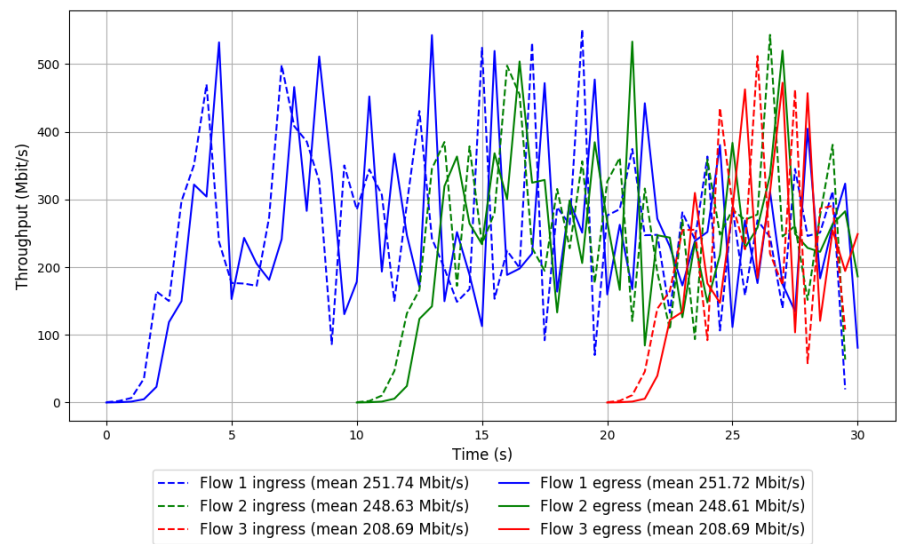
-- Flow 3:

Average throughput: 208.69 Mbit/s

95th percentile per-packet one-way delay: 149.251 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-25 11:24:44

End at: 2018-09-25 11:25:14

Local clock offset: -0.414 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.55 Mbit/s

95th percentile per-packet one-way delay: 149.182 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 266.12 Mbit/s

95th percentile per-packet one-way delay: 158.091 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 240.74 Mbit/s

95th percentile per-packet one-way delay: 144.201 ms

Loss rate: 0.00%

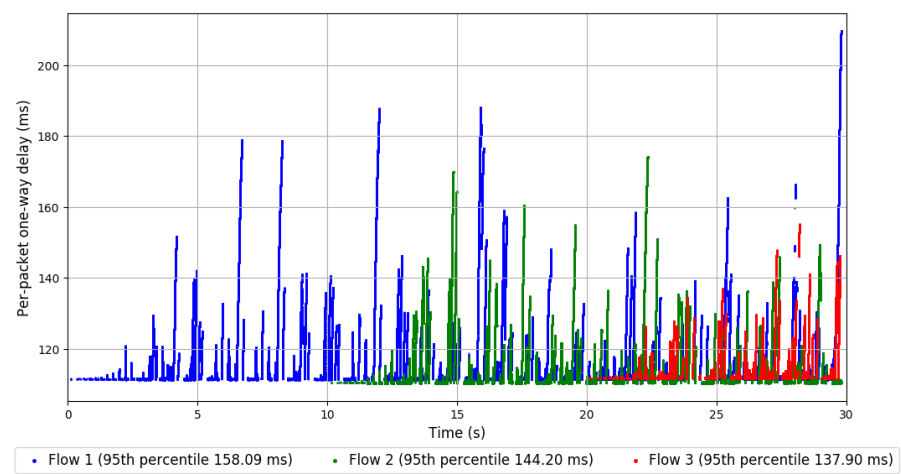
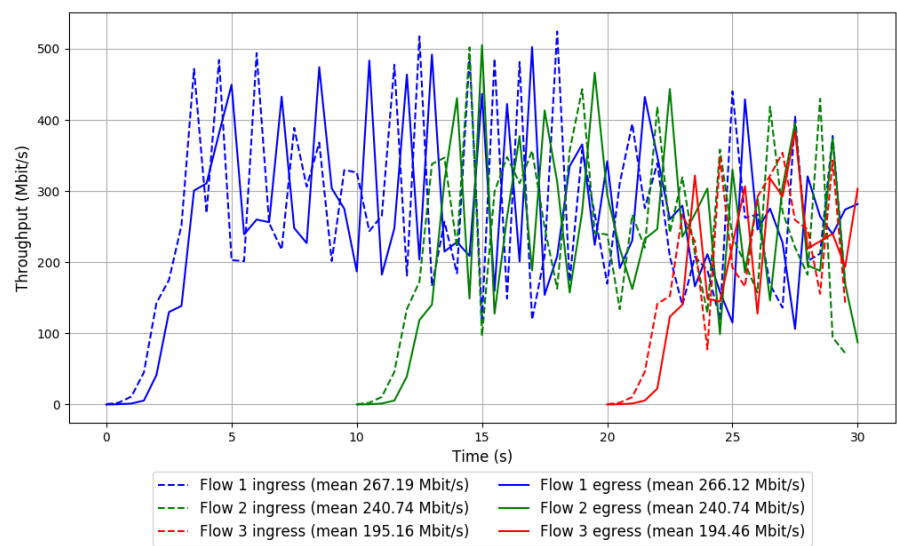
-- Flow 3:

Average throughput: 194.46 Mbit/s

95th percentile per-packet one-way delay: 137.901 ms

Loss rate: 0.00%

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

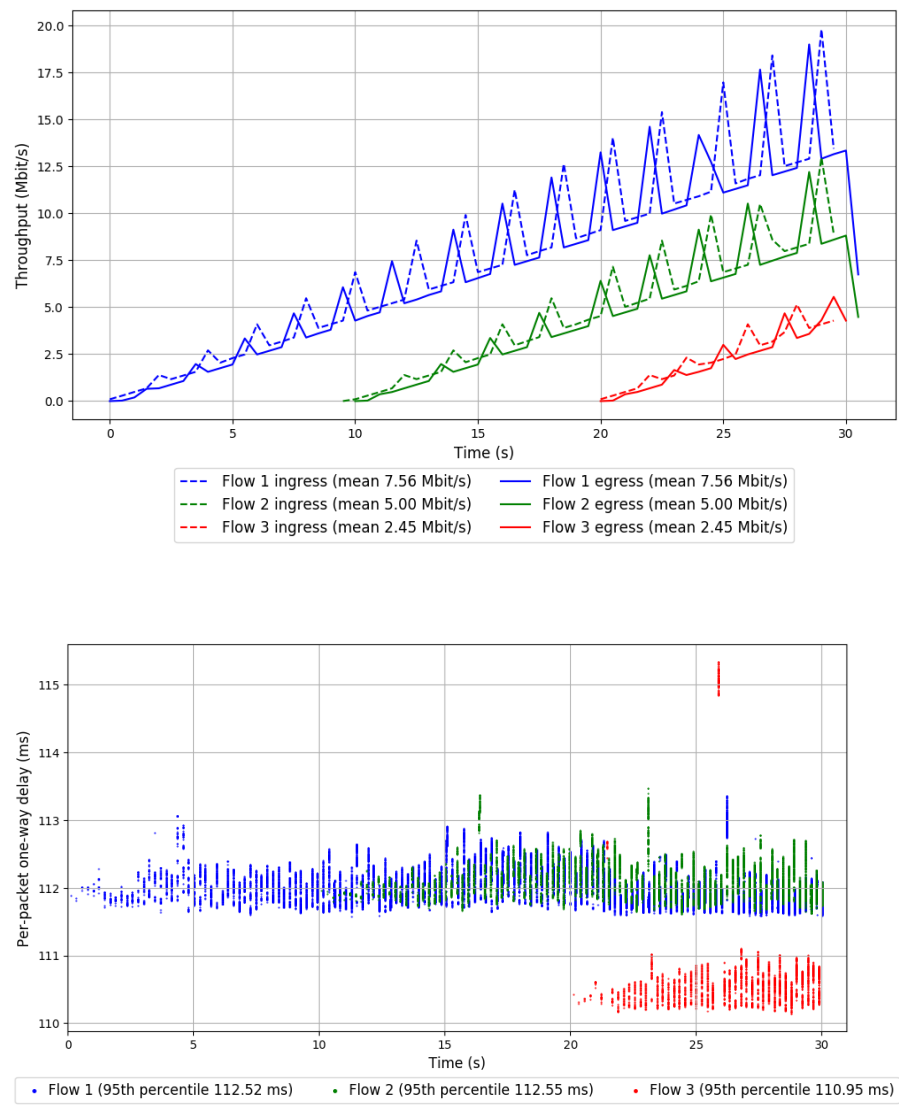


```
Run 1: Statistics of LEDBAT

Start at: 2018-09-25 08:58:39
End at: 2018-09-25 08:59:09
Local clock offset: -0.114 ms
Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-09-25 13:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 112.528 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 112.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 112.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 110.949 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

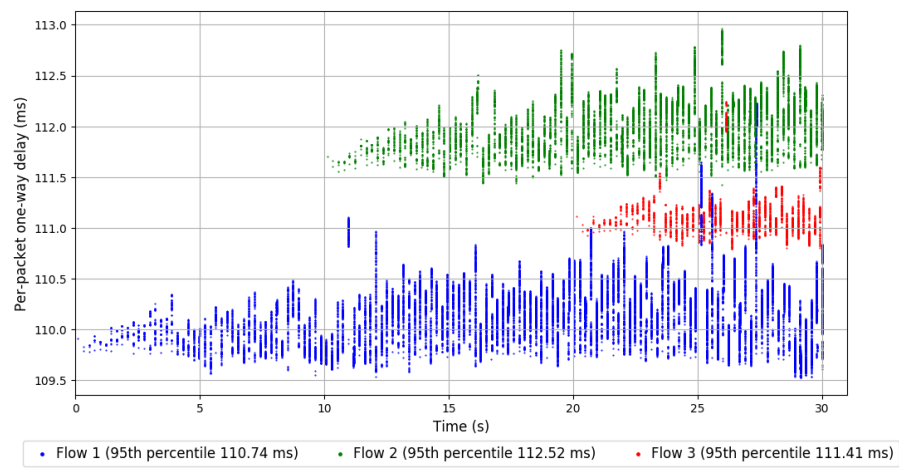
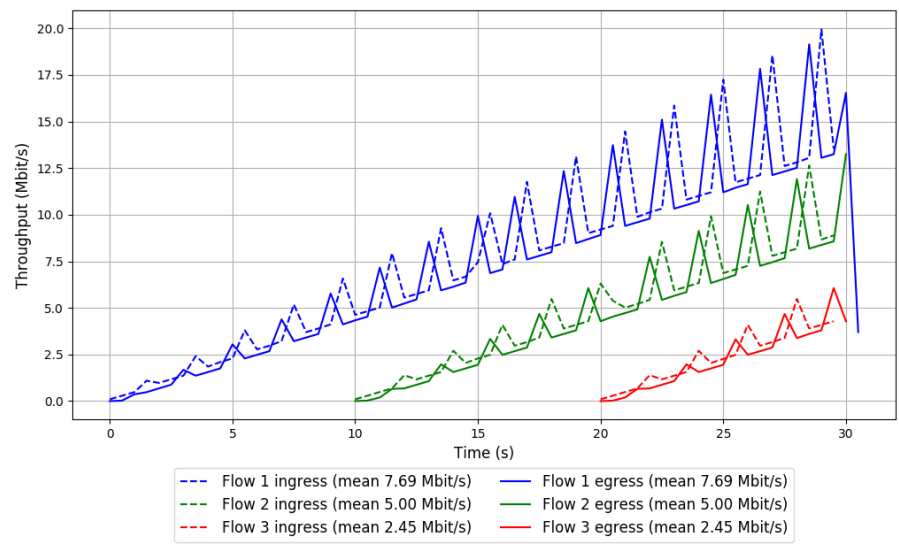


Run 2: Statistics of LEDBAT

Start at: 2018-09-25 09:33:36
End at: 2018-09-25 09:34:06
Local clock offset: -0.119 ms
Remote clock offset: 0.356 ms

Below is generated by plot.py at 2018-09-25 13:21:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 112.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 110.740 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 112.520 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 111.406 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

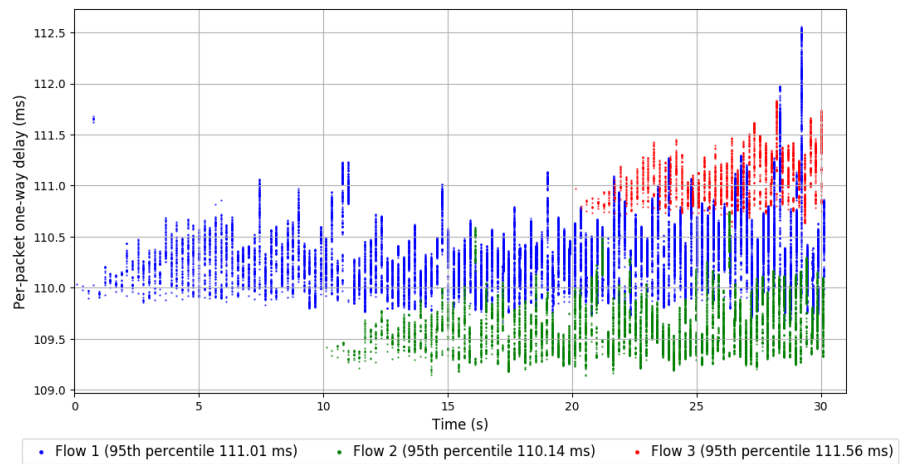
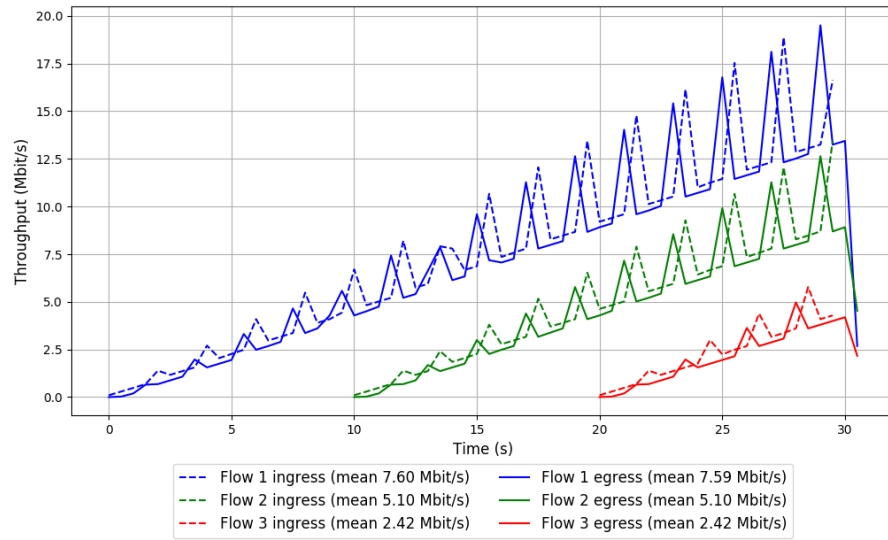


Run 3: Statistics of LEDBAT

Start at: 2018-09-25 10:09:01
End at: 2018-09-25 10:09:31
Local clock offset: -0.216 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-09-25 13:21:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 111.123 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 111.008 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 110.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 111.565 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-09-25 10:44:10

End at: 2018-09-25 10:44:40

Local clock offset: -0.161 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 111.224 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 110.664 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 111.459 ms

Loss rate: 0.00%

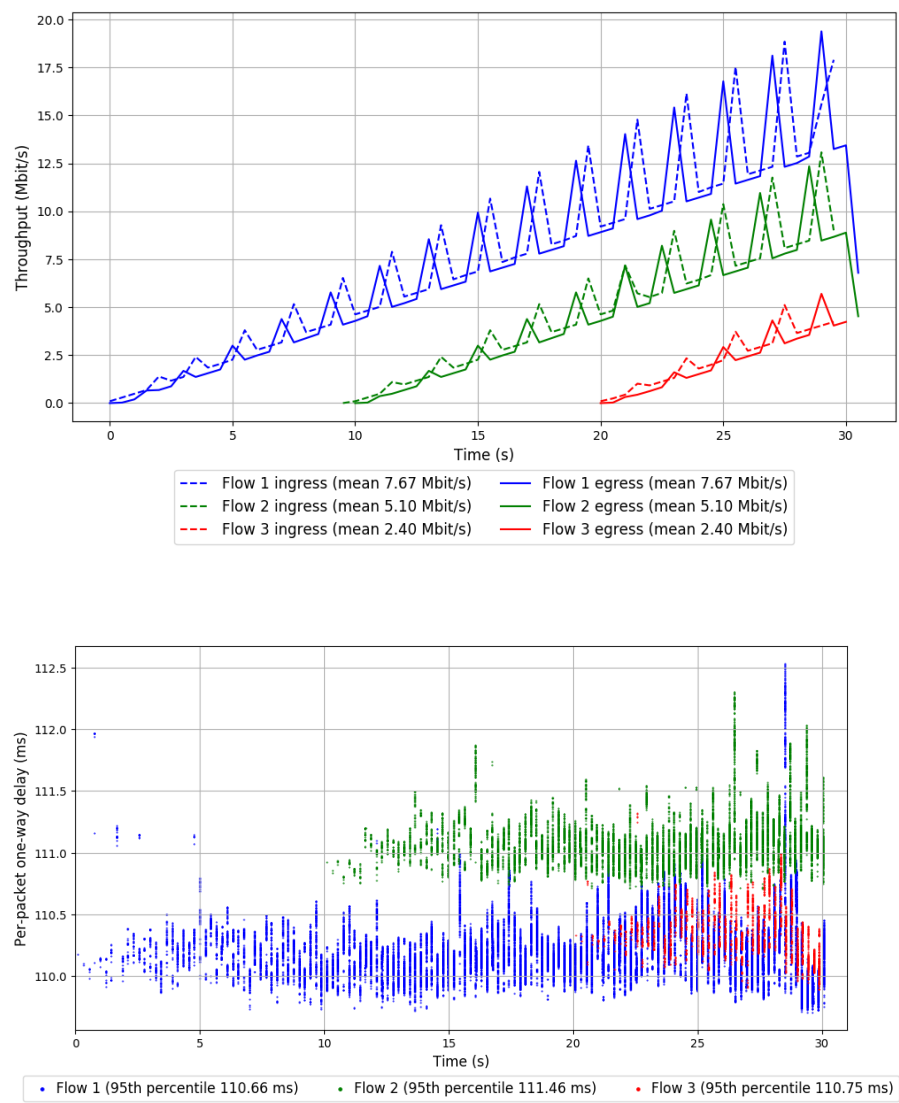
-- Flow 3:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 110.749 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-09-25 11:19:12

End at: 2018-09-25 11:19:42

Local clock offset: -0.077 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-09-25 13:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 112.333 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 112.354 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 112.303 ms

Loss rate: 0.00%

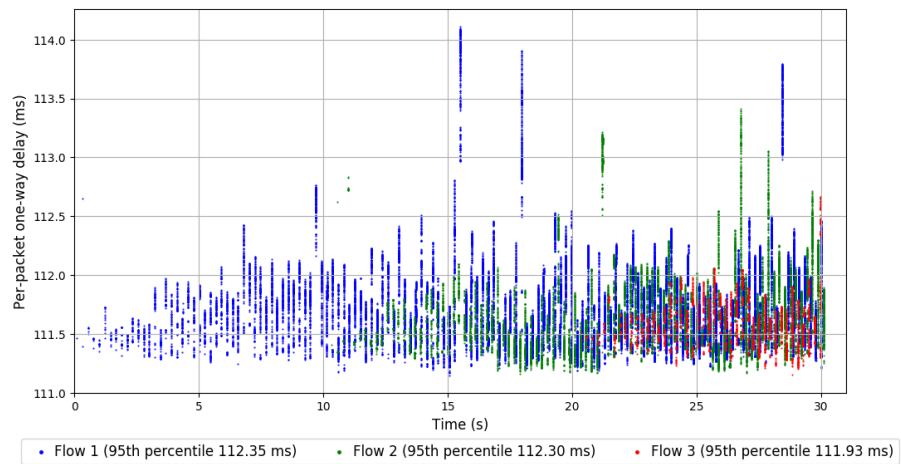
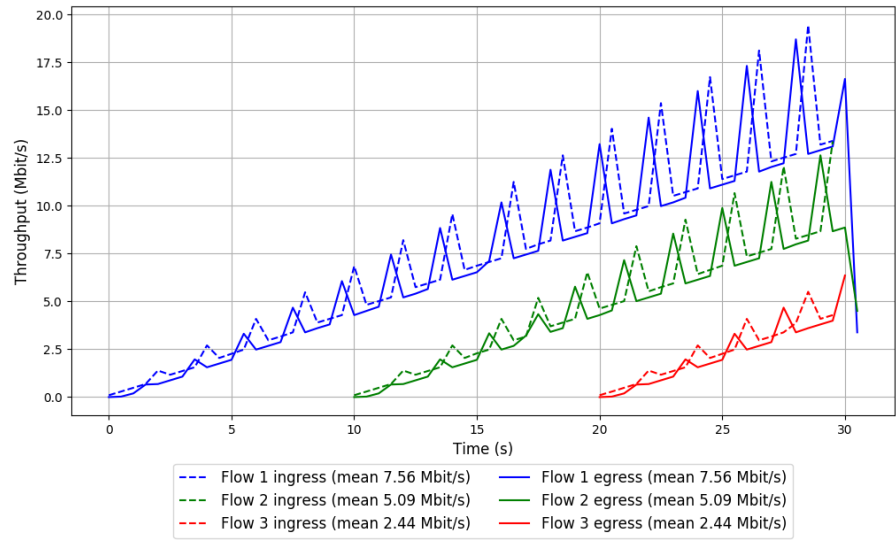
-- Flow 3:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 111.931 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Indigo-Muses

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

End at: 2018-09-25 09:21:16

Local clock offset: 0.244 ms

Remote clock offset: 0.424 ms

Below is generated by plot.py at 2018-09-25 13:29:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 1083.66 Mbit/s

95th percentile per-packet one-way delay: 162.659 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 590.47 Mbit/s

95th percentile per-packet one-way delay: 160.805 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 544.23 Mbit/s

95th percentile per-packet one-way delay: 164.929 ms

Loss rate: 0.06%

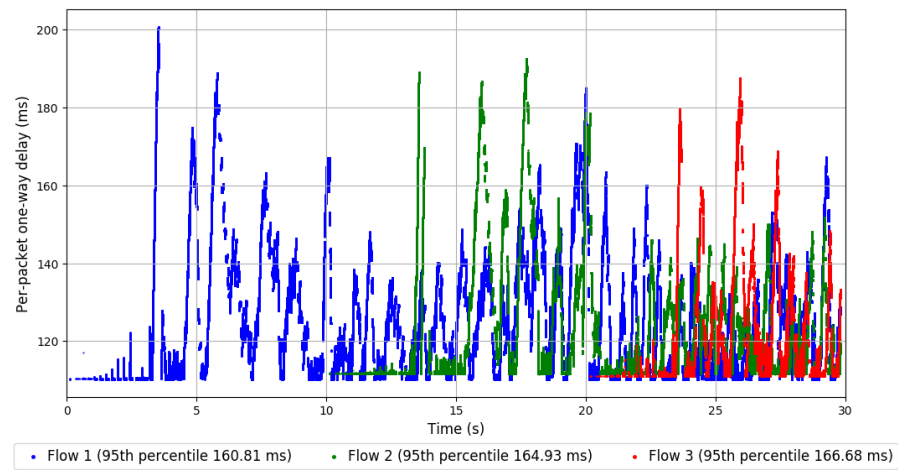
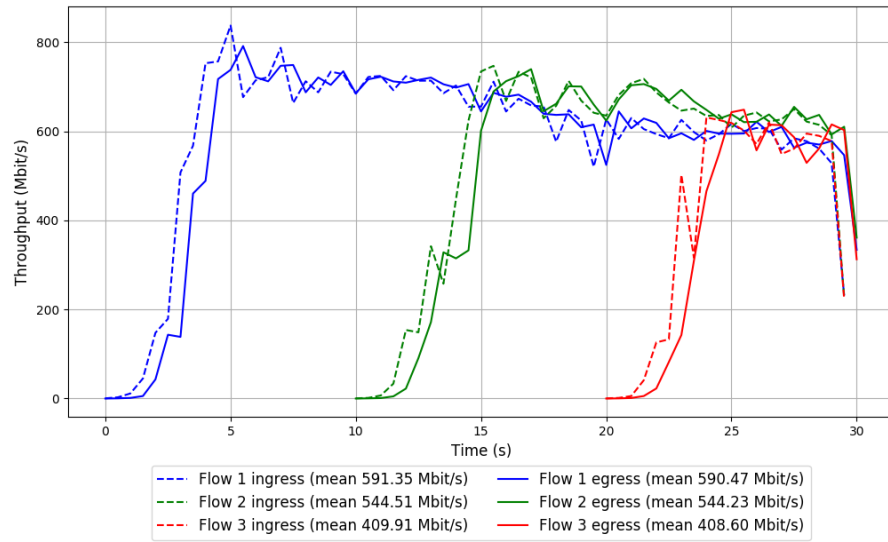
-- Flow 3:

Average throughput: 408.60 Mbit/s

95th percentile per-packet one-way delay: 166.681 ms

Loss rate: 0.34%

Run 1: Report of Indigo-Muses — Data Link

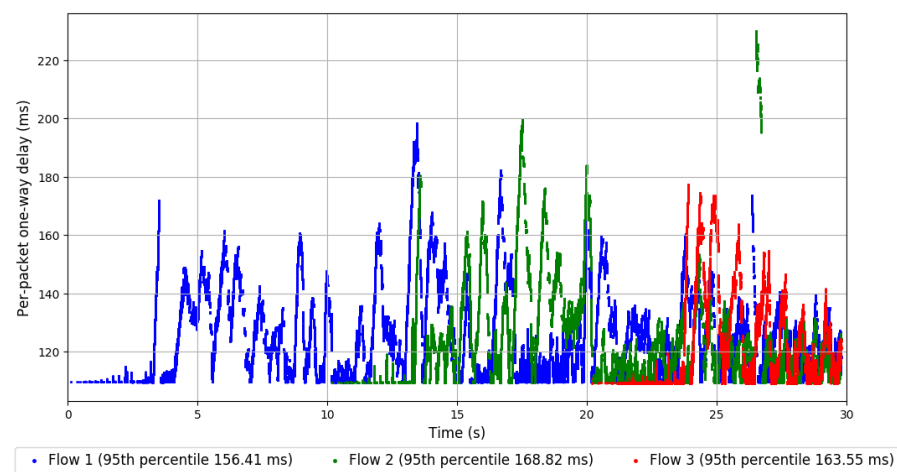
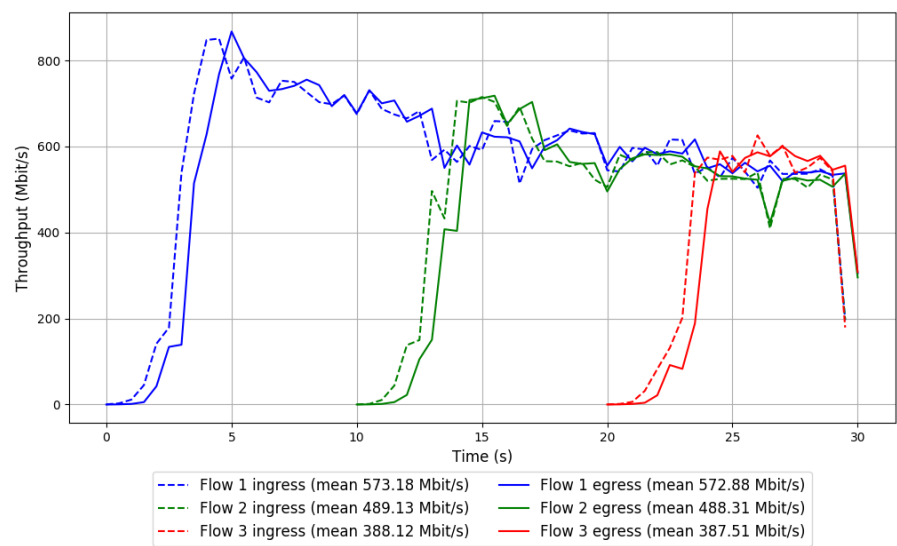


Run 2: Statistics of Indigo-Muses

Start at: 2018-09-25 09:56:11
End at: 2018-09-25 09:56:41
Local clock offset: 0.567 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-09-25 13:29:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 1021.03 Mbit/s
95th percentile per-packet one-way delay: 160.102 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 572.88 Mbit/s
95th percentile per-packet one-way delay: 156.409 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 488.31 Mbit/s
95th percentile per-packet one-way delay: 168.823 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 387.51 Mbit/s
95th percentile per-packet one-way delay: 163.553 ms
Loss rate: 0.04%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-09-25 10:31:26

End at: 2018-09-25 10:31:56

Local clock offset: -0.251 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-09-25 13:31:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 989.64 Mbit/s

95th percentile per-packet one-way delay: 161.062 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 587.79 Mbit/s

95th percentile per-packet one-way delay: 161.926 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 478.45 Mbit/s

95th percentile per-packet one-way delay: 158.447 ms

Loss rate: 0.00%

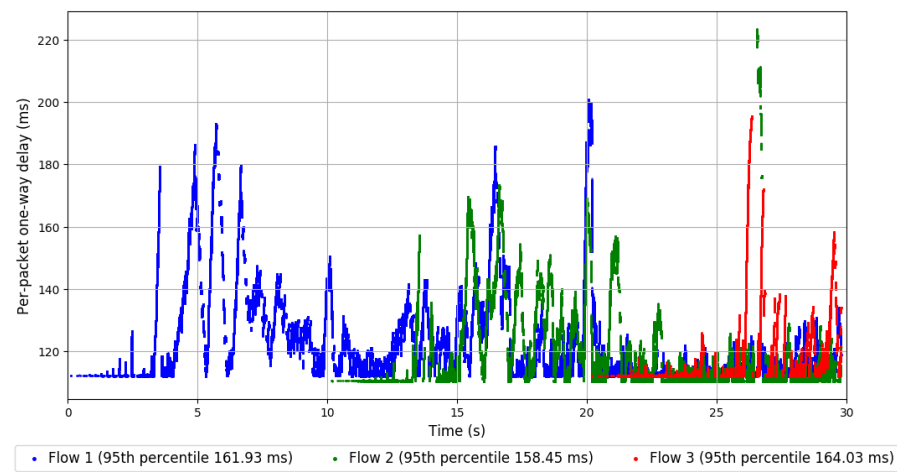
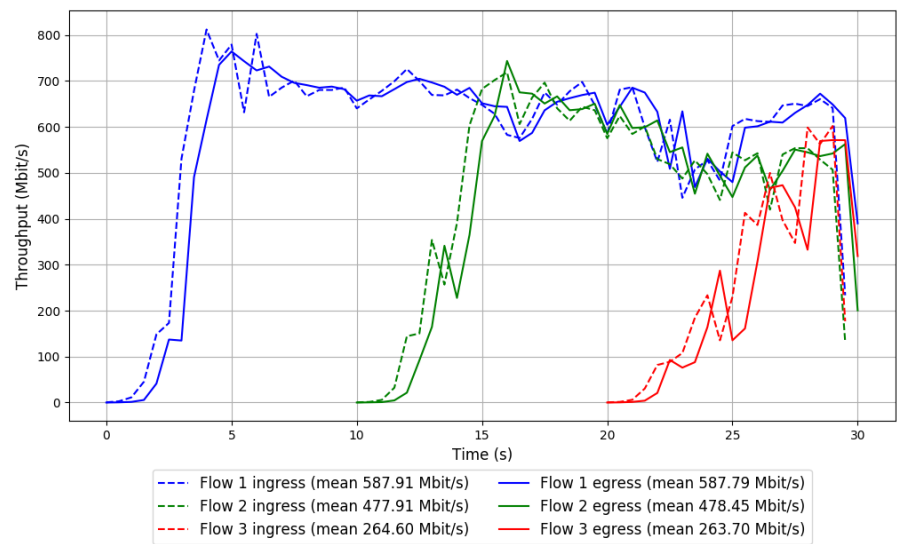
-- Flow 3:

Average throughput: 263.70 Mbit/s

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

Loss rate: 0.34%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-25 11:06:33

End at: 2018-09-25 11:07:03

Local clock offset: -1.445 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-09-25 13:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 1061.82 Mbit/s

95th percentile per-packet one-way delay: 162.352 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 568.04 Mbit/s

95th percentile per-packet one-way delay: 162.475 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 555.83 Mbit/s

95th percentile per-packet one-way delay: 158.447 ms

Loss rate: 0.06%

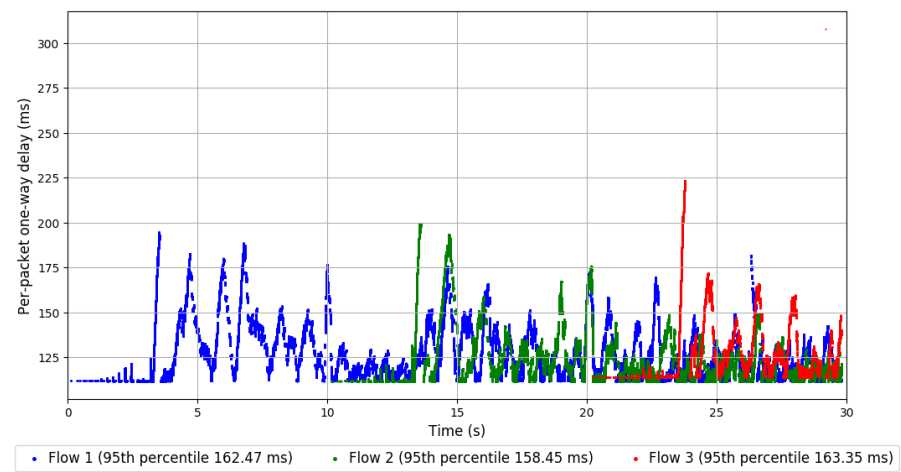
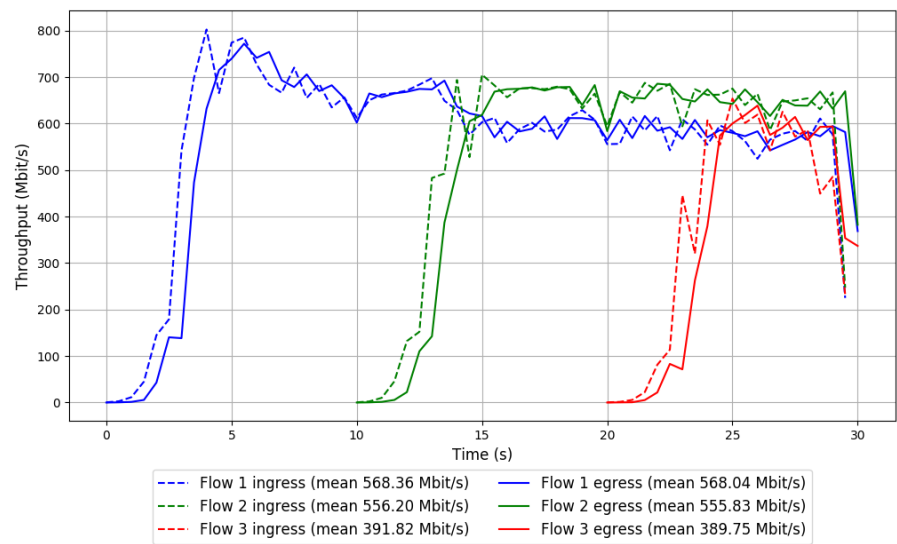
-- Flow 3:

Average throughput: 389.75 Mbit/s

95th percentile per-packet one-way delay: 163.354 ms

Loss rate: 0.56%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-09-25 11:41:58

End at: 2018-09-25 11:42:28

Local clock offset: -0.278 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-09-25 13:34:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1092.89 Mbit/s

95th percentile per-packet one-way delay: 169.651 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 605.63 Mbit/s

95th percentile per-packet one-way delay: 177.858 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 535.08 Mbit/s

95th percentile per-packet one-way delay: 166.879 ms

Loss rate: 0.08%

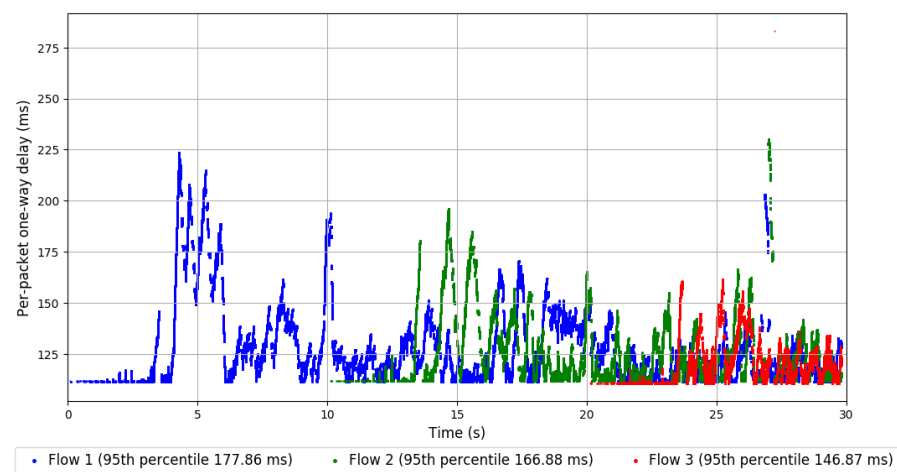
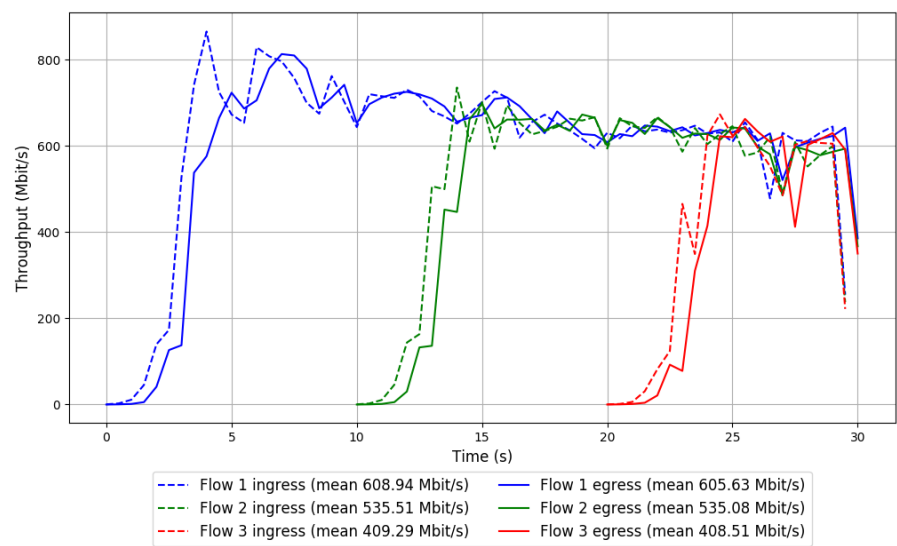
-- Flow 3:

Average throughput: 408.51 Mbit/s

95th percentile per-packet one-way delay: 146.874 ms

Loss rate: 0.18%

Run 5: Report of Indigo-Muses — Data Link



Run 1: Statistics of PCC-Allegro

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

End at: 2018-09-25 09:10:02

Local clock offset: 0.259 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-09-25 13:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 661.77 Mbit/s

95th percentile per-packet one-way delay: 244.686 ms

Loss rate: 2.86%

-- Flow 1:

Average throughput: 364.44 Mbit/s

95th percentile per-packet one-way delay: 248.401 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 325.22 Mbit/s

95th percentile per-packet one-way delay: 194.168 ms

Loss rate: 0.94%

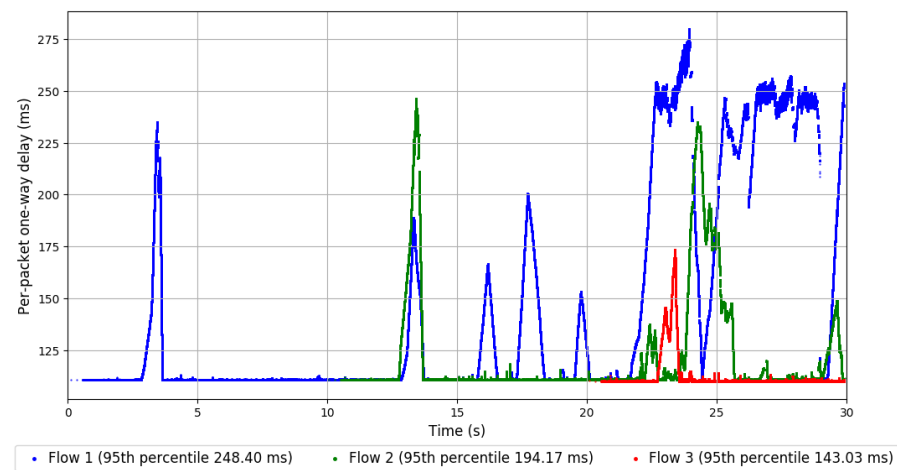
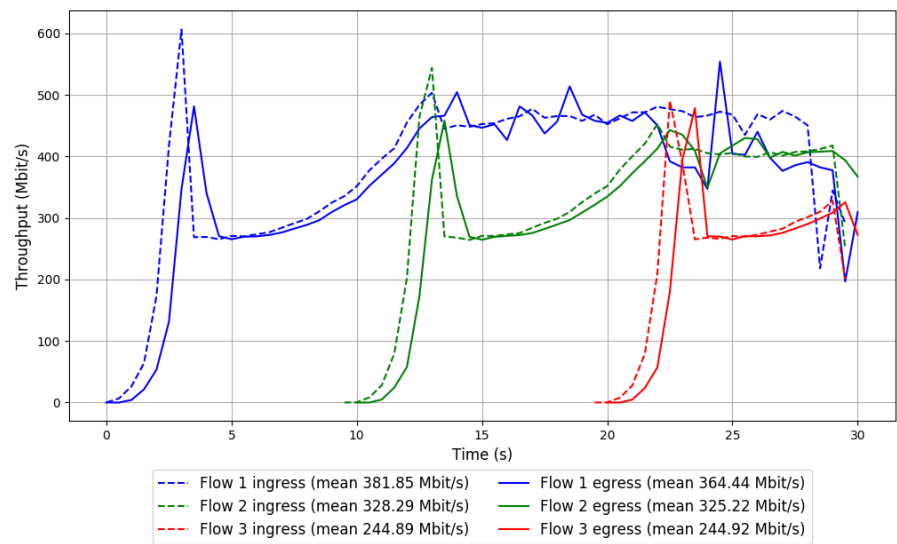
-- Flow 3:

Average throughput: 244.92 Mbit/s

95th percentile per-packet one-way delay: 143.032 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-09-25 09:44:54

End at: 2018-09-25 09:45:24

Local clock offset: 0.13 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-09-25 13:43:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 792.52 Mbit/s

95th percentile per-packet one-way delay: 230.095 ms

Loss rate: 5.98%

-- Flow 1:

Average throughput: 436.81 Mbit/s

95th percentile per-packet one-way delay: 232.771 ms

Loss rate: 6.01%

-- Flow 2:

Average throughput: 420.61 Mbit/s

95th percentile per-packet one-way delay: 225.002 ms

Loss rate: 6.65%

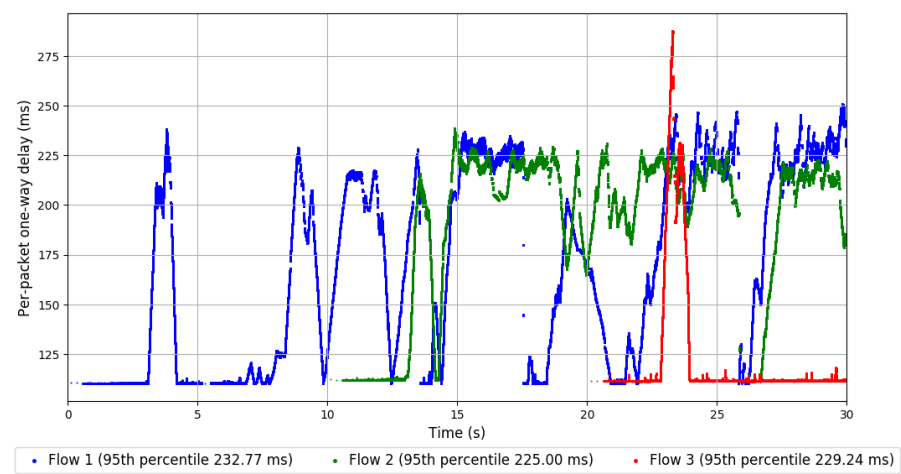
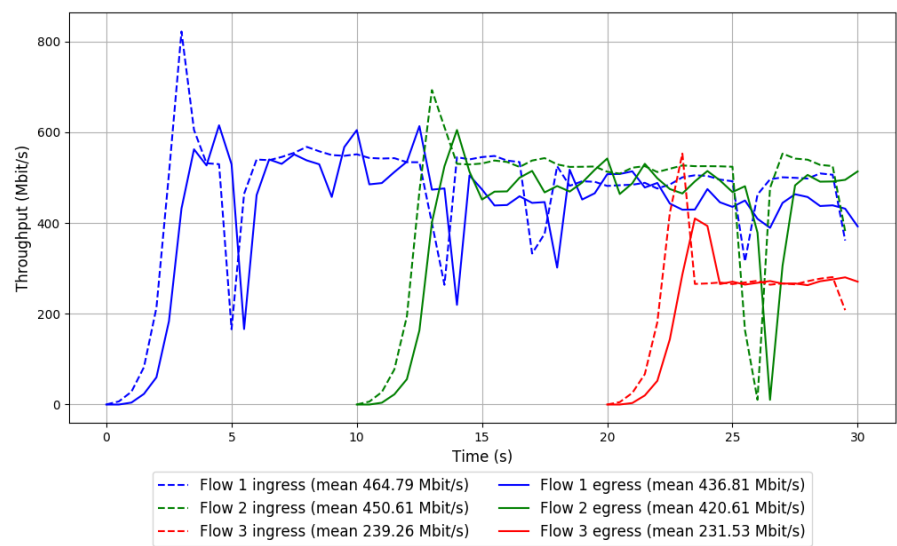
-- Flow 3:

Average throughput: 231.53 Mbit/s

95th percentile per-packet one-way delay: 229.235 ms

Loss rate: 3.23%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-09-25 10:20:16

End at: 2018-09-25 10:20:46

Local clock offset: 1.225 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-09-25 13:43:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 607.25 Mbit/s

95th percentile per-packet one-way delay: 226.089 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 319.56 Mbit/s

95th percentile per-packet one-way delay: 202.953 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 321.08 Mbit/s

95th percentile per-packet one-way delay: 235.511 ms

Loss rate: 2.19%

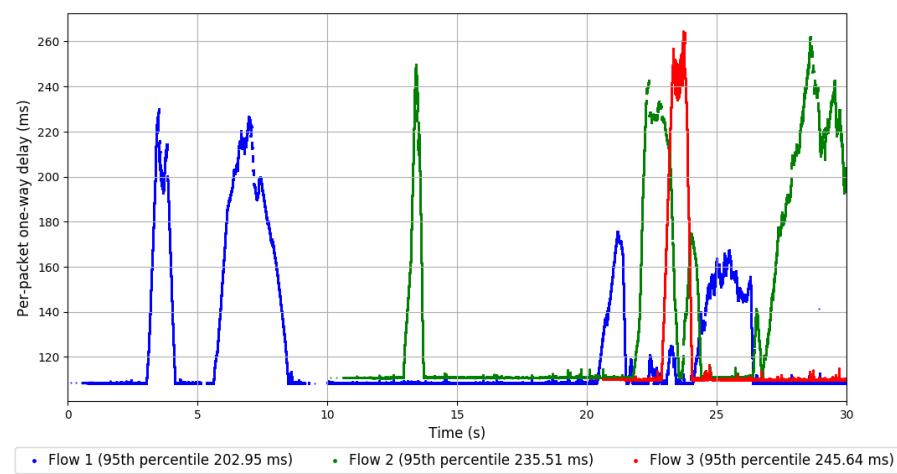
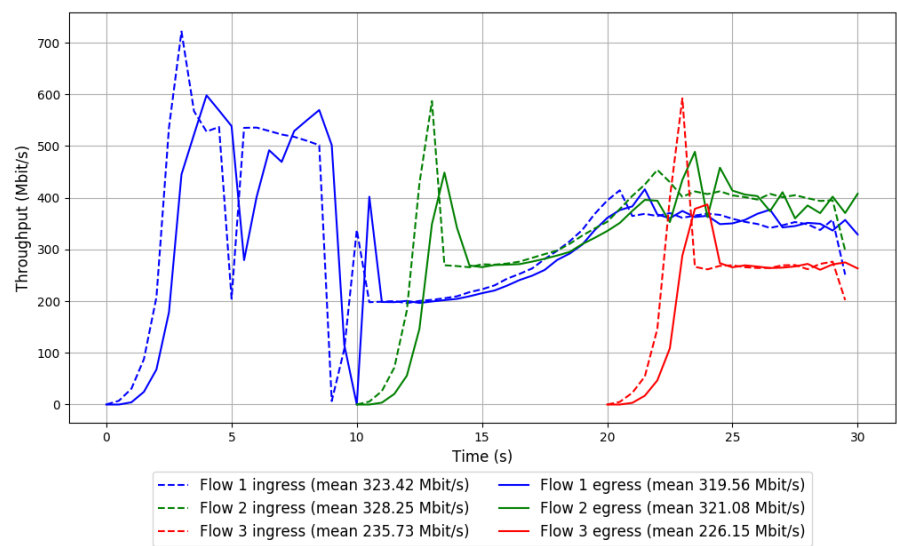
-- Flow 3:

Average throughput: 226.15 Mbit/s

95th percentile per-packet one-way delay: 245.643 ms

Loss rate: 4.06%

Run 3: Report of PCC-Allegro — Data Link

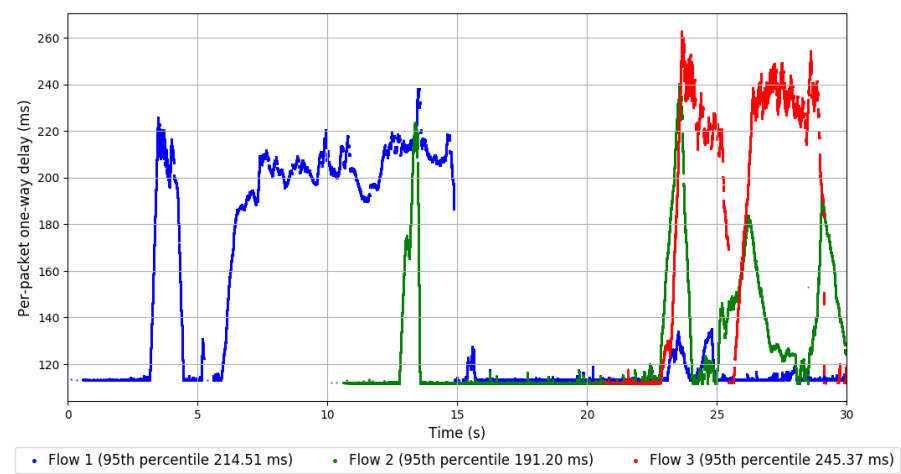
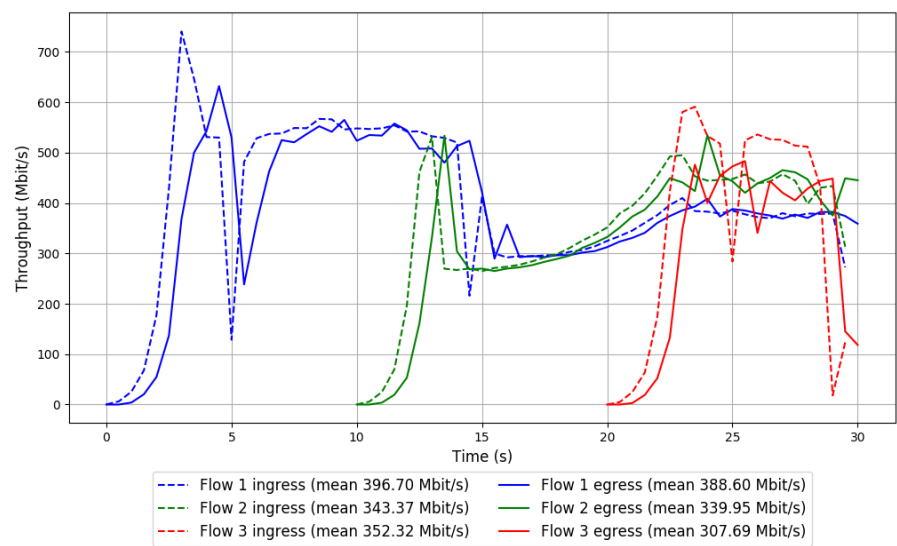


Run 4: Statistics of PCC-Allegro

Start at: 2018-09-25 10:55:24
End at: 2018-09-25 10:55:54
Local clock offset: -1.464 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-09-25 13:53:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 715.46 Mbit/s
95th percentile per-packet one-way delay: 231.322 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 388.60 Mbit/s
95th percentile per-packet one-way delay: 214.515 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 339.95 Mbit/s
95th percentile per-packet one-way delay: 191.198 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 307.69 Mbit/s
95th percentile per-packet one-way delay: 245.368 ms
Loss rate: 12.65%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-09-25 11:30:38

End at: 2018-09-25 11:31:08

Local clock offset: 0.562 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-09-25 13:54:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 717.80 Mbit/s

95th percentile per-packet one-way delay: 230.438 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 422.95 Mbit/s

95th percentile per-packet one-way delay: 231.061 ms

Loss rate: 4.38%

-- Flow 2:

Average throughput: 322.52 Mbit/s

95th percentile per-packet one-way delay: 233.563 ms

Loss rate: 1.96%

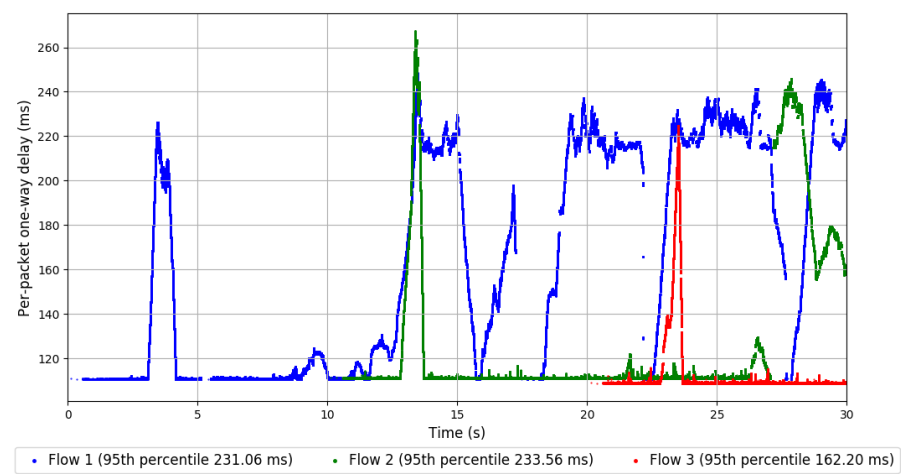
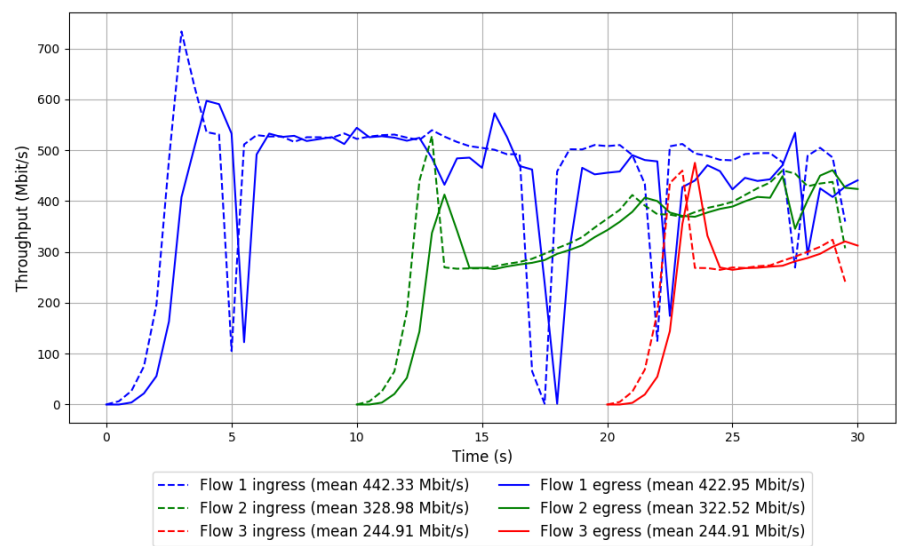
-- Flow 3:

Average throughput: 244.91 Mbit/s

95th percentile per-packet one-way delay: 162.201 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

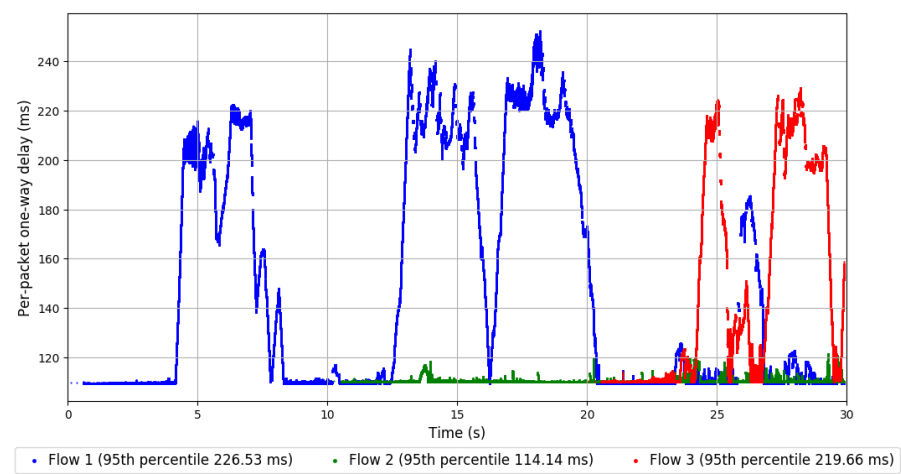
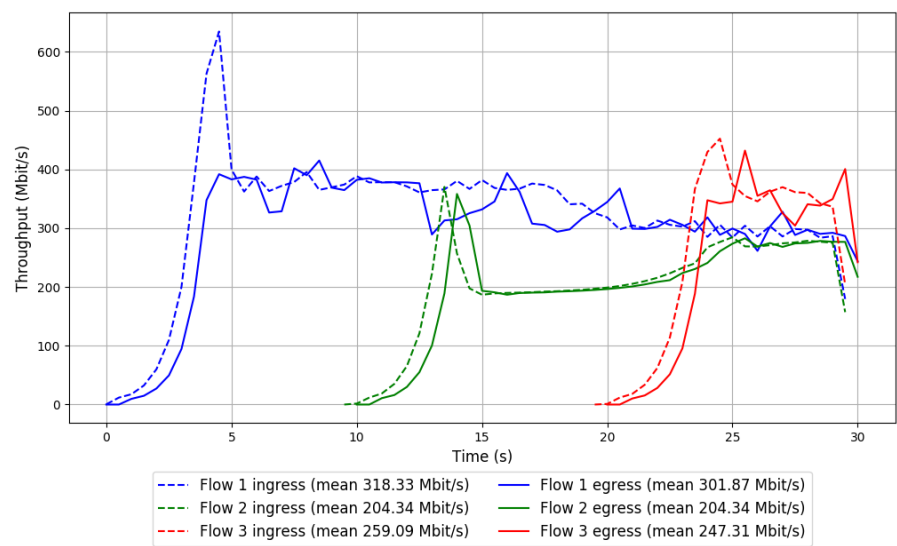


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-25 08:51:55
End at: 2018-09-25 08:52:25
Local clock offset: -0.001 ms
Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-09-25 13:54:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 520.01 Mbit/s
95th percentile per-packet one-way delay: 222.530 ms
Loss rate: 3.77%
-- Flow 1:
Average throughput: 301.87 Mbit/s
95th percentile per-packet one-way delay: 226.534 ms
Loss rate: 5.17%
-- Flow 2:
Average throughput: 204.34 Mbit/s
95th percentile per-packet one-way delay: 114.138 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 247.31 Mbit/s
95th percentile per-packet one-way delay: 219.665 ms
Loss rate: 4.54%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-09-25 09:26:41

End at: 2018-09-25 09:27:11

Local clock offset: -0.063 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-09-25 13:54:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.82 Mbit/s

95th percentile per-packet one-way delay: 197.091 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 325.40 Mbit/s

95th percentile per-packet one-way delay: 205.071 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 204.95 Mbit/s

95th percentile per-packet one-way delay: 121.574 ms

Loss rate: 0.21%

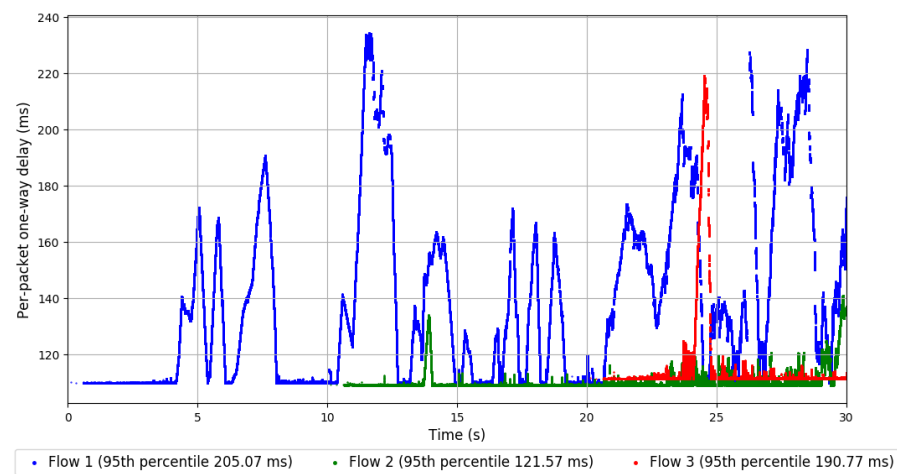
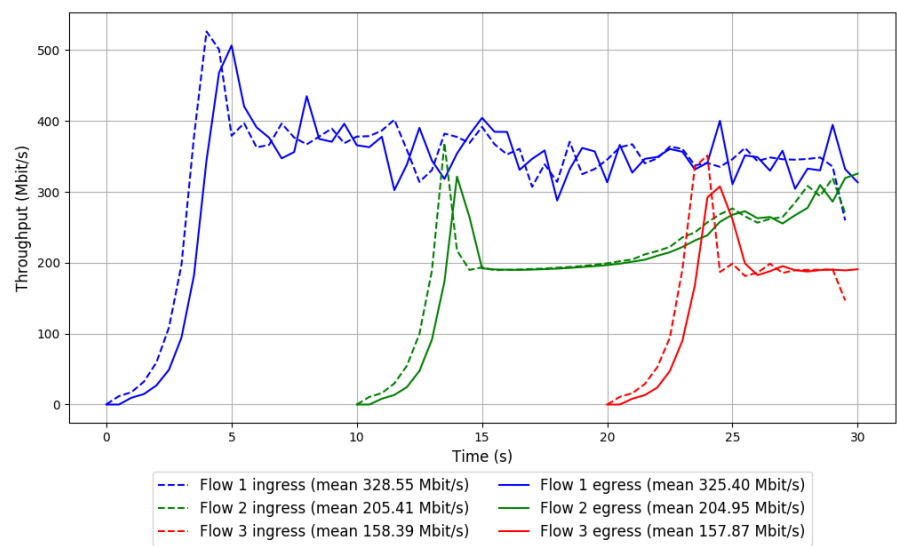
-- Flow 3:

Average throughput: 157.87 Mbit/s

95th percentile per-packet one-way delay: 190.768 ms

Loss rate: 0.33%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-09-25 10:02:05

End at: 2018-09-25 10:02:35

Local clock offset: -0.579 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-09-25 13:54:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.70 Mbit/s

95th percentile per-packet one-way delay: 172.098 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 284.60 Mbit/s

95th percentile per-packet one-way delay: 188.960 ms

Loss rate: 1.96%

-- Flow 2:

Average throughput: 255.12 Mbit/s

95th percentile per-packet one-way delay: 167.275 ms

Loss rate: 0.00%

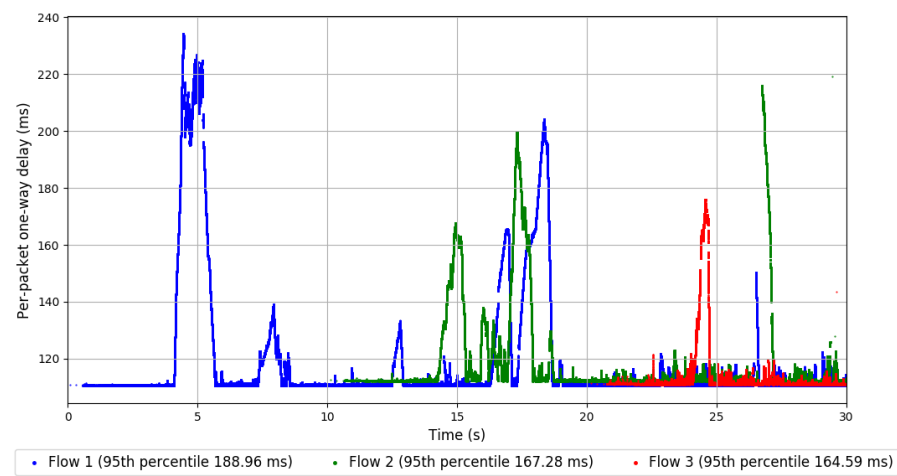
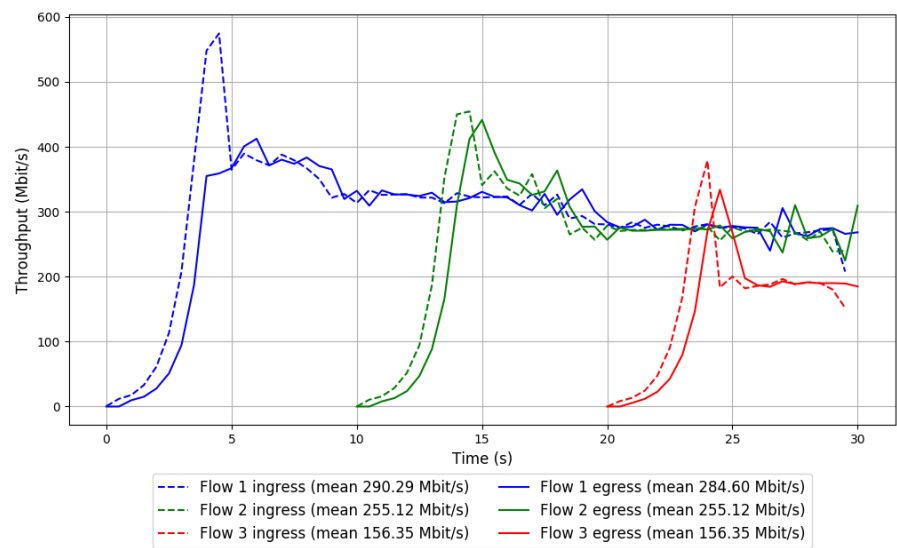
-- Flow 3:

Average throughput: 156.35 Mbit/s

95th percentile per-packet one-way delay: 164.587 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-09-25 10:37:12

End at: 2018-09-25 10:37:42

Local clock offset: -0.128 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-09-25 13:56:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 512.98 Mbit/s

95th percentile per-packet one-way delay: 177.025 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 289.35 Mbit/s

95th percentile per-packet one-way delay: 178.637 ms

Loss rate: 1.92%

-- Flow 2:

Average throughput: 209.53 Mbit/s

95th percentile per-packet one-way delay: 115.356 ms

Loss rate: 0.03%

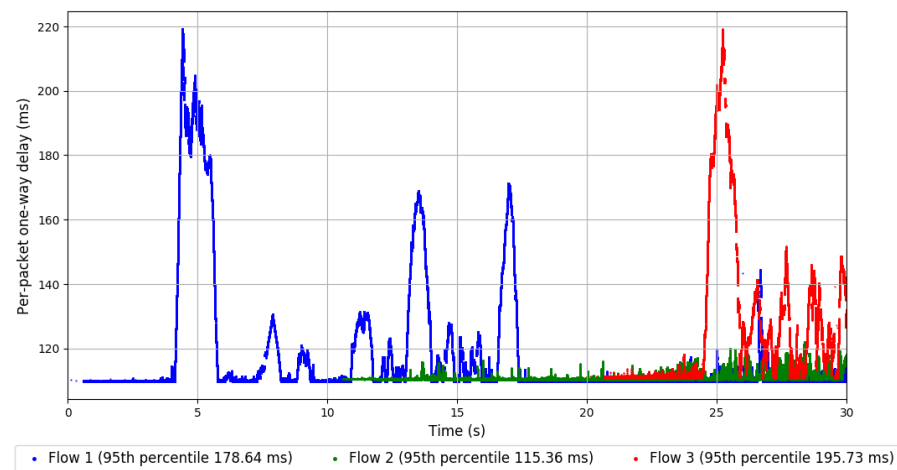
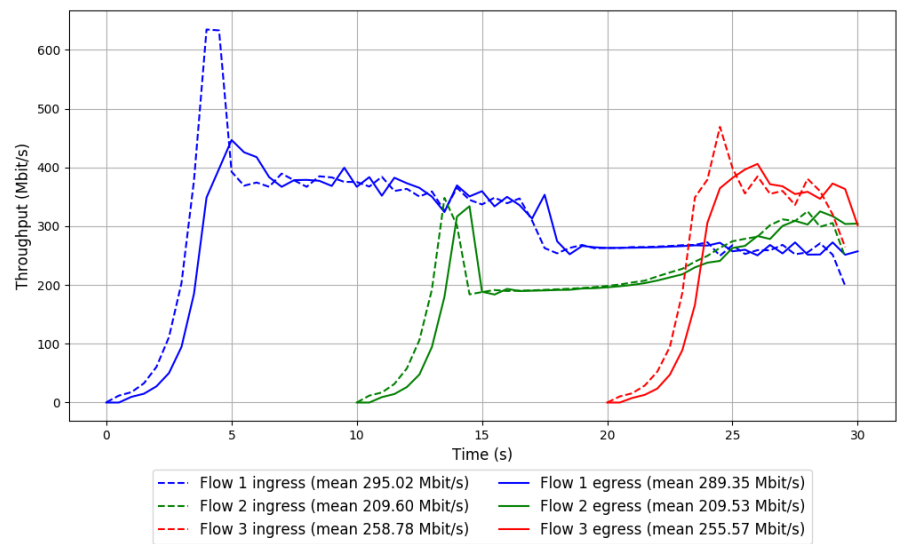
-- Flow 3:

Average throughput: 255.57 Mbit/s

95th percentile per-packet one-way delay: 195.734 ms

Loss rate: 1.23%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-09-25 11:12:22

End at: 2018-09-25 11:12:52

Local clock offset: -0.501 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.74 Mbit/s

95th percentile per-packet one-way delay: 189.430 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 303.97 Mbit/s

95th percentile per-packet one-way delay: 195.700 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 210.44 Mbit/s

95th percentile per-packet one-way delay: 122.805 ms

Loss rate: 0.00%

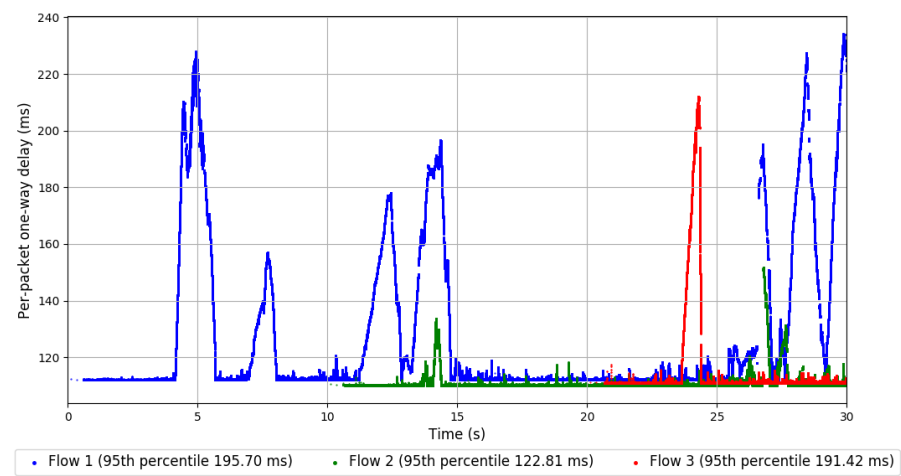
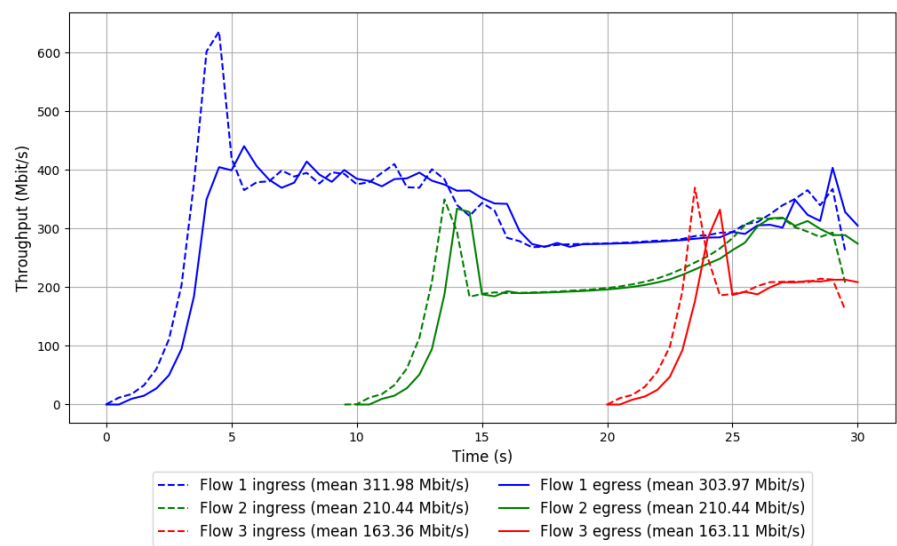
-- Flow 3:

Average throughput: 163.11 Mbit/s

95th percentile per-packet one-way delay: 191.419 ms

Loss rate: 0.16%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

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

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

Local clock offset: 1.301 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.00 Mbit/s

95th percentile per-packet one-way delay: 110.254 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 109.798 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 109.725 ms

Loss rate: 0.00%

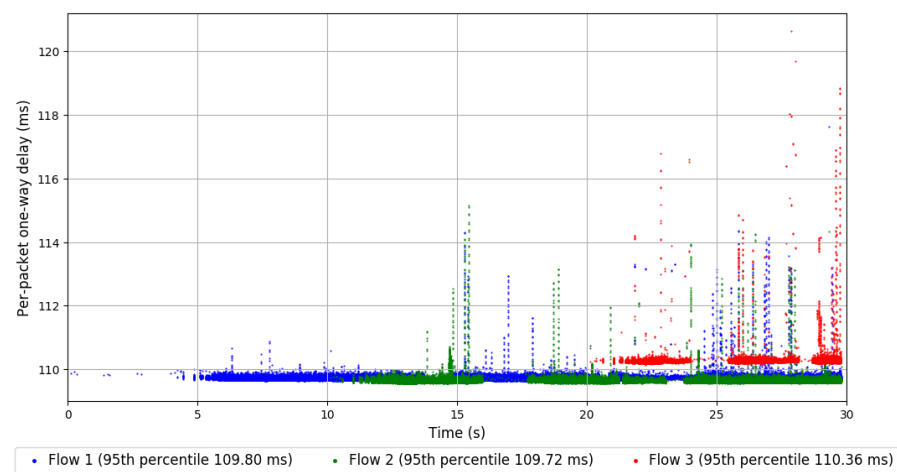
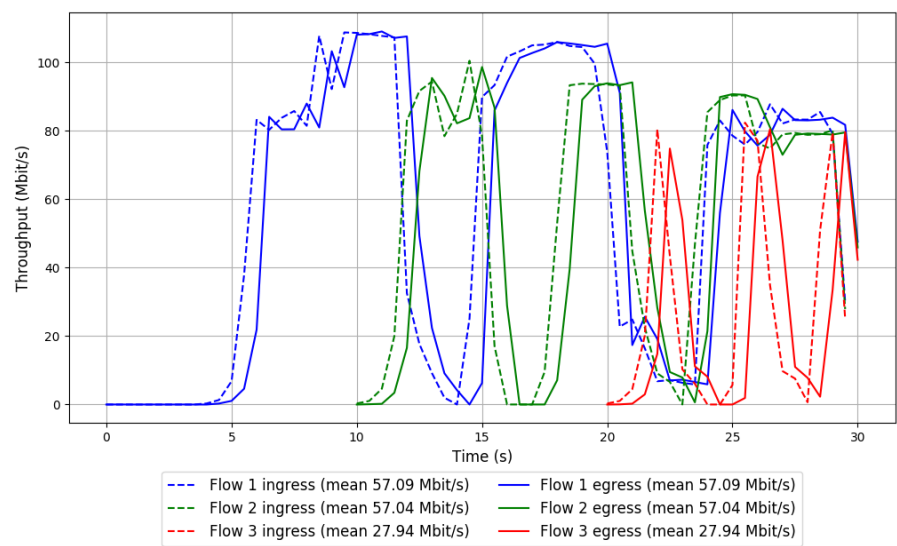
-- Flow 3:

Average throughput: 27.94 Mbit/s

95th percentile per-packet one-way delay: 110.361 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

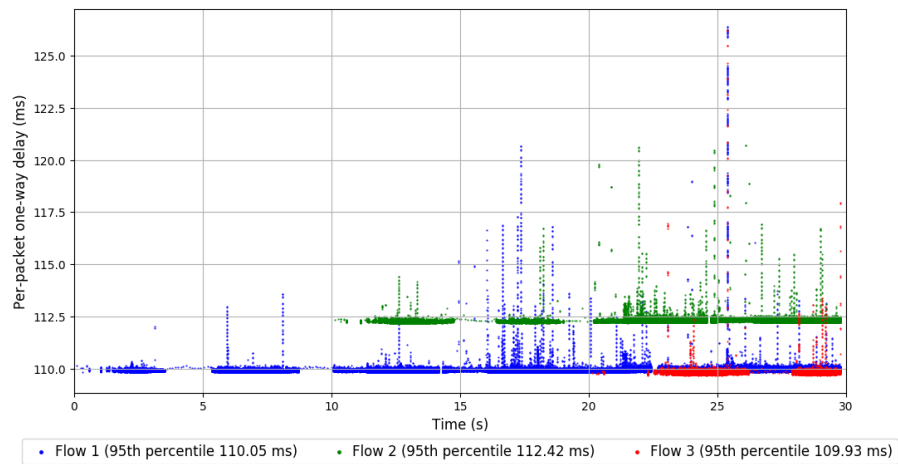
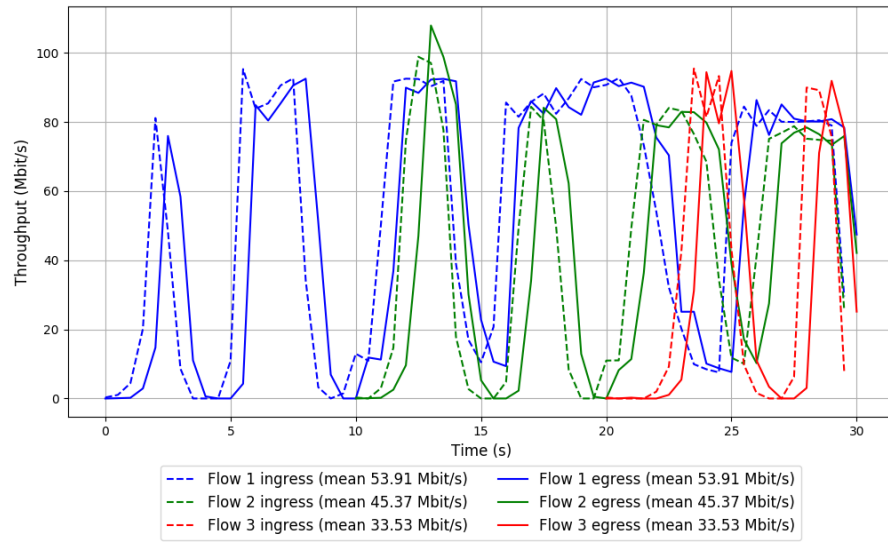


Run 2: Statistics of QUIC Cubic

Start at: 2018-09-25 09:47:09
End at: 2018-09-25 09:47:39
Local clock offset: 0.004 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-09-25 13:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 112.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.91 Mbit/s
95th percentile per-packet one-way delay: 110.045 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.37 Mbit/s
95th percentile per-packet one-way delay: 112.418 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.53 Mbit/s
95th percentile per-packet one-way delay: 109.929 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-09-25 10:22:16

End at: 2018-09-25 10:22:46

Local clock offset: 0.146 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.67 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.27 Mbit/s

95th percentile per-packet one-way delay: 111.437 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 111.469 ms

Loss rate: 0.00%

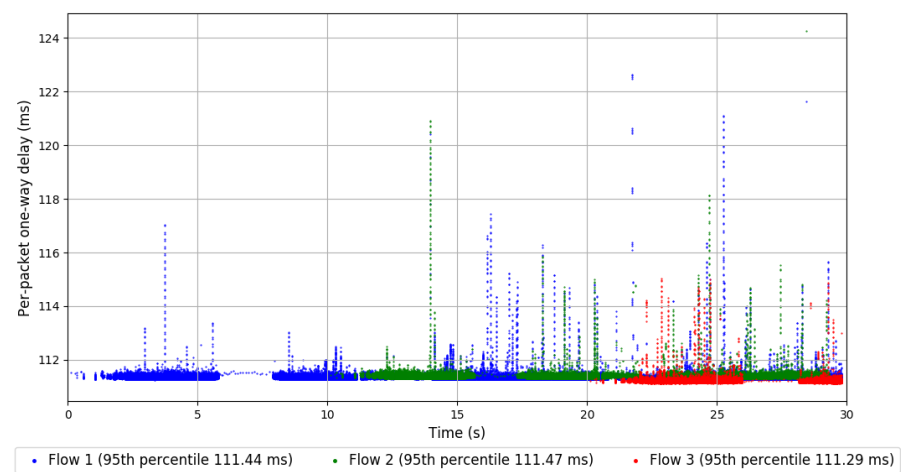
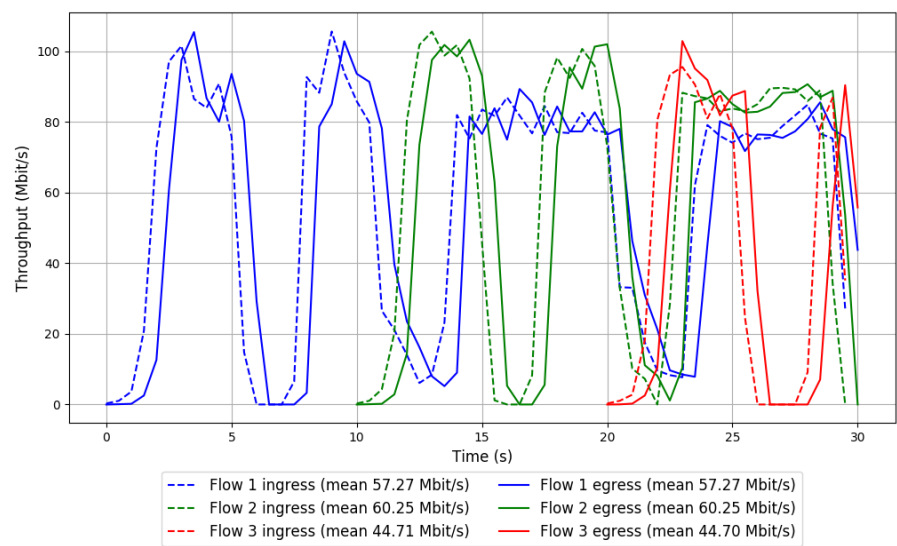
-- Flow 3:

Average throughput: 44.70 Mbit/s

95th percentile per-packet one-way delay: 111.294 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-09-25 10:57:33

End at: 2018-09-25 10:58:03

Local clock offset: -0.831 ms

Remote clock offset: 0.326 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.46 Mbit/s

95th percentile per-packet one-way delay: 111.085 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 109.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 110.538 ms

Loss rate: 0.00%

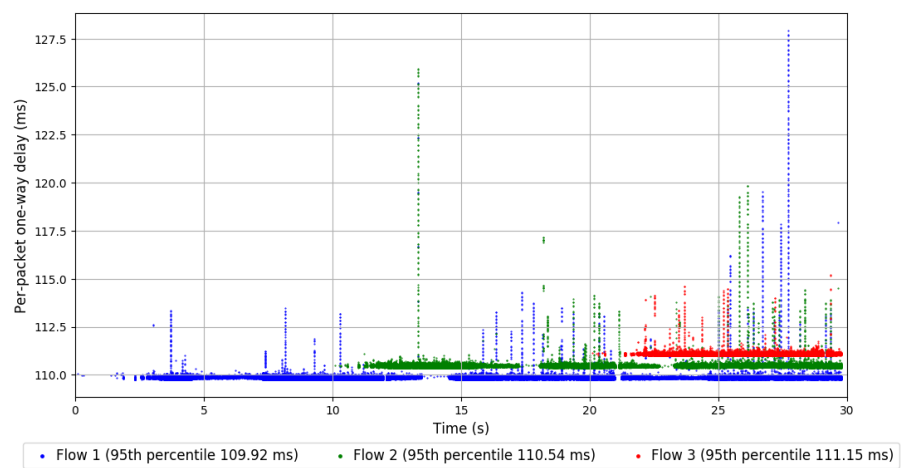
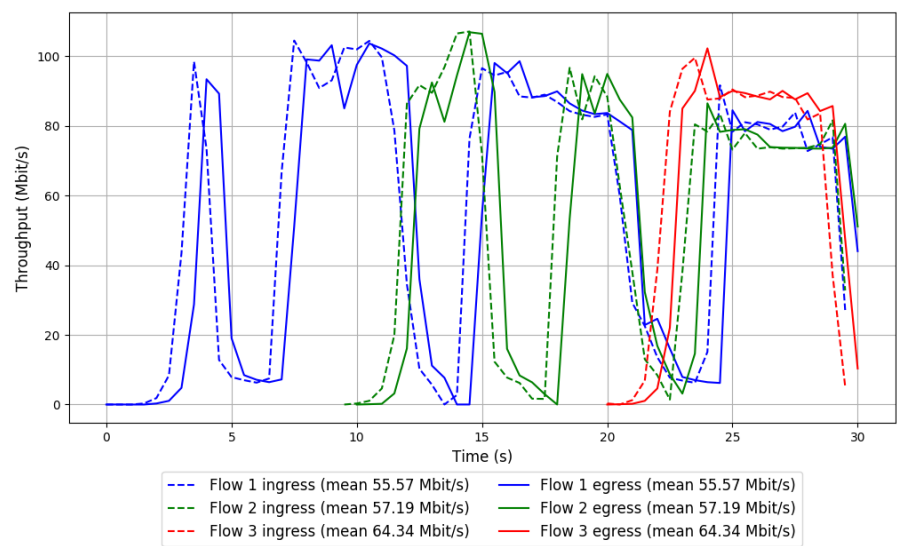
-- Flow 3:

Average throughput: 64.34 Mbit/s

95th percentile per-packet one-way delay: 111.148 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-09-25 11:32:47

End at: 2018-09-25 11:33:17

Local clock offset: -0.474 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.90 Mbit/s

95th percentile per-packet one-way delay: 112.123 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.29 Mbit/s

95th percentile per-packet one-way delay: 112.171 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.28 Mbit/s

95th percentile per-packet one-way delay: 111.097 ms

Loss rate: 0.00%

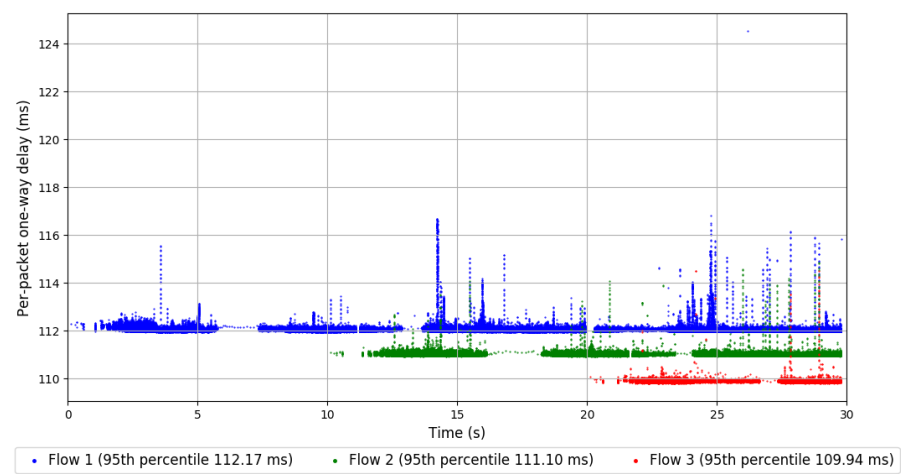
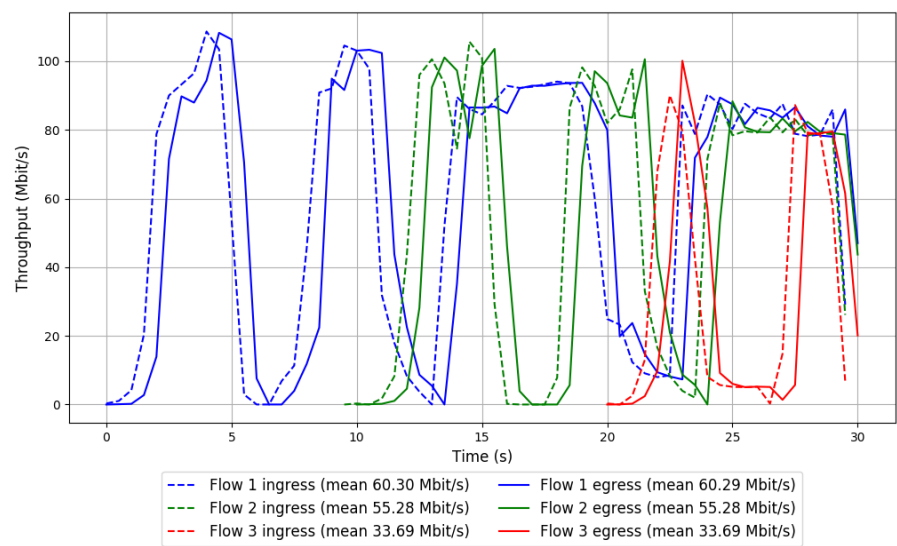
-- Flow 3:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 109.945 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-09-25 08:55:19

End at: 2018-09-25 08:55:49

Local clock offset: 0.763 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.314 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.921 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.745 ms

Loss rate: 0.00%

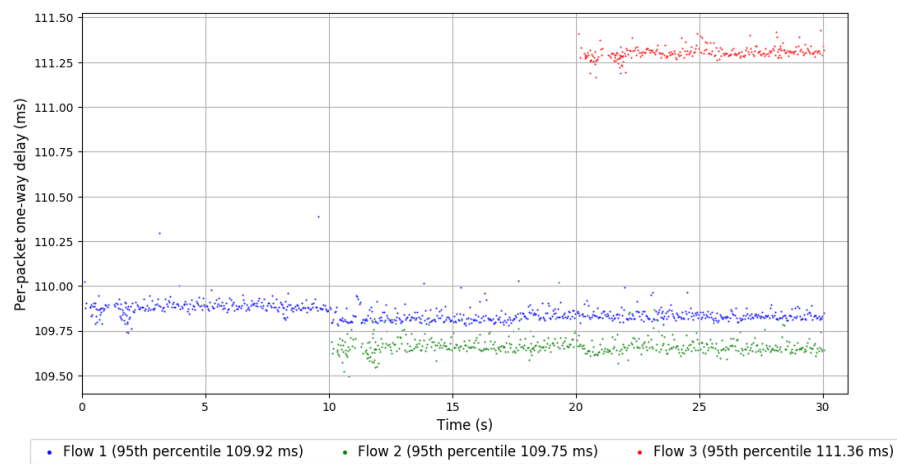
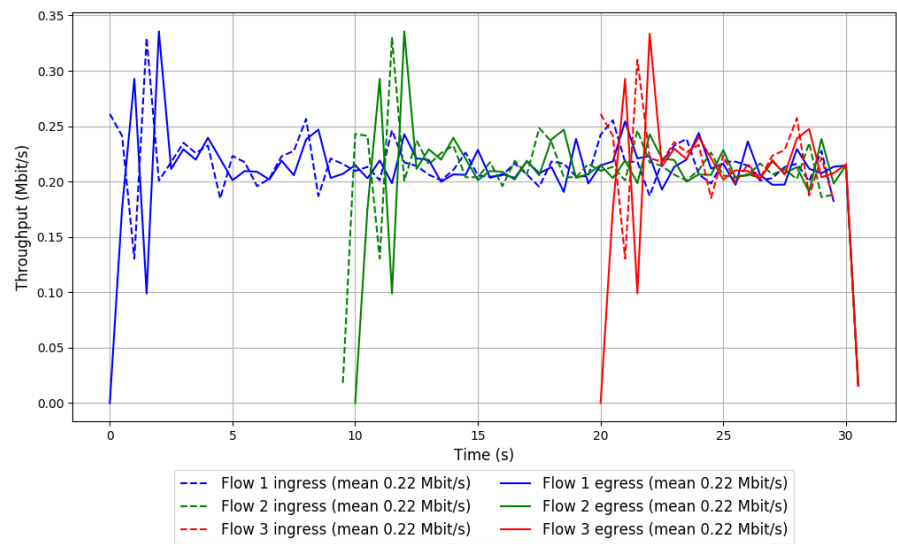
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.363 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

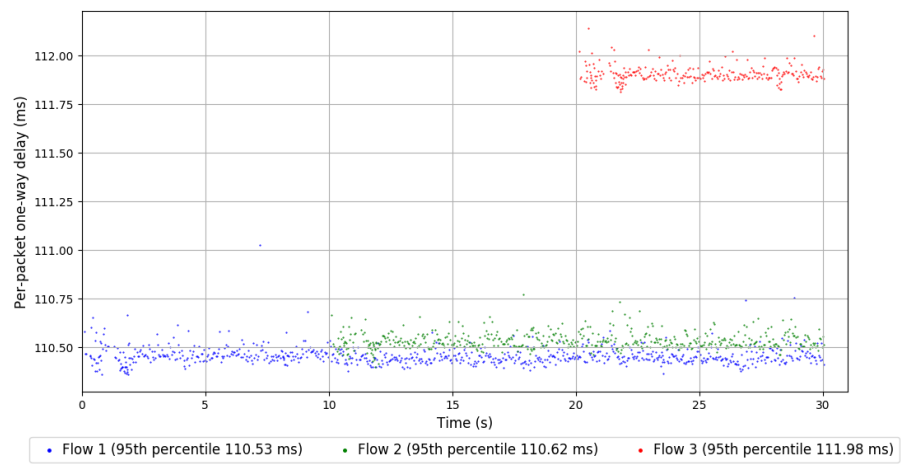
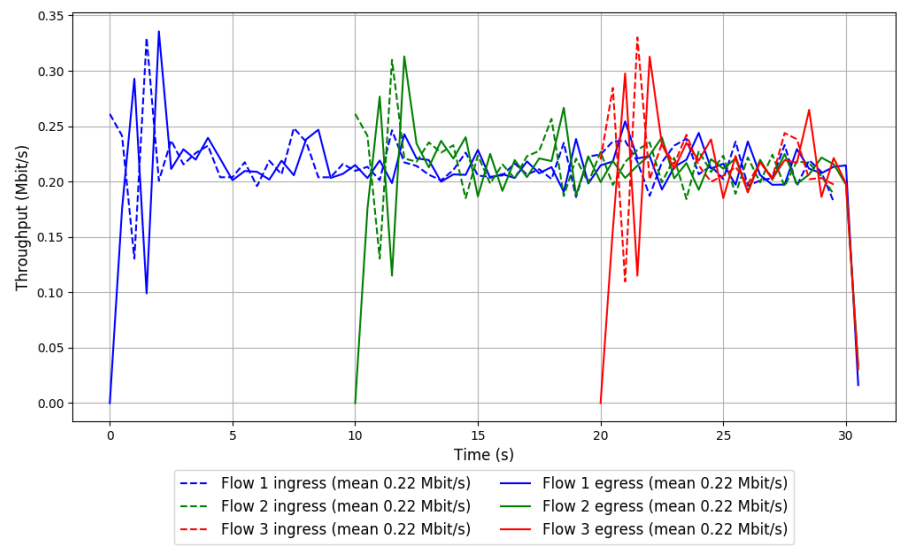


Run 2: Statistics of SReAM

Start at: 2018-09-25 09:30:04
End at: 2018-09-25 09:30:34
Local clock offset: 0.162 ms
Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-09-25 13:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.616 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.977 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

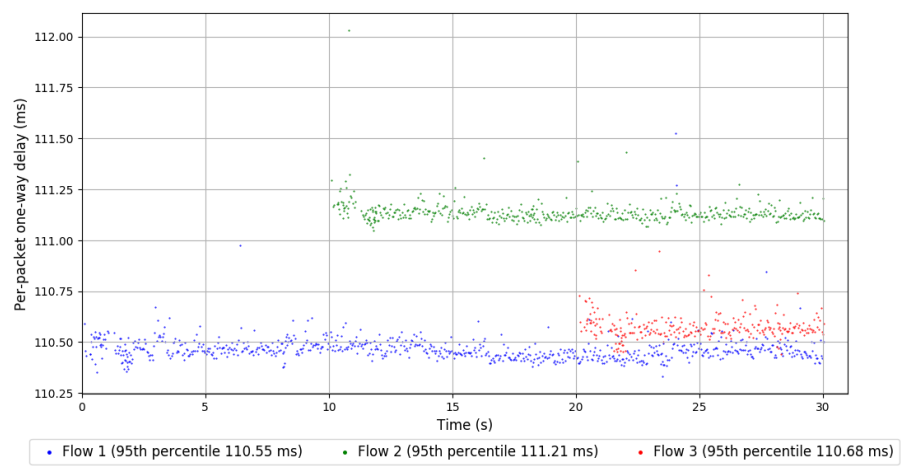
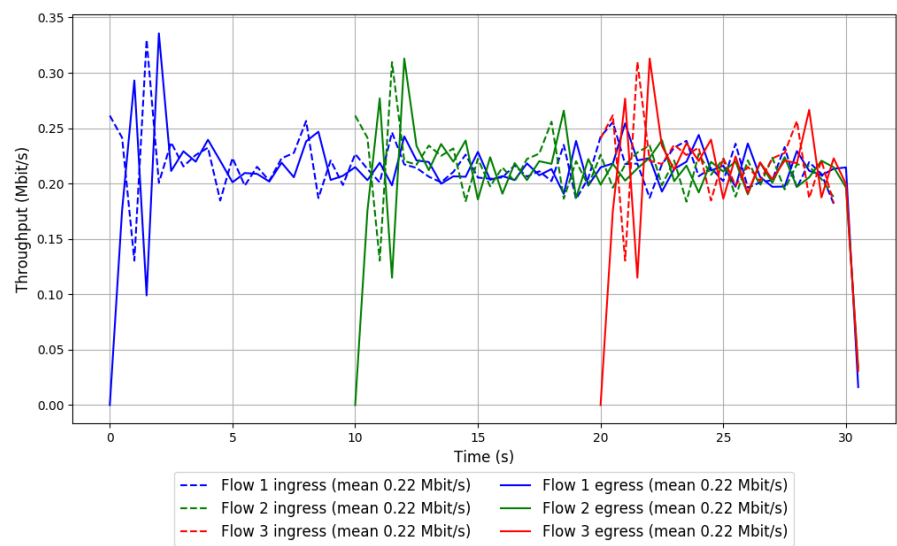


Run 3: Statistics of SReAM

Start at: 2018-09-25 10:05:28
End at: 2018-09-25 10:05:58
Local clock offset: -0.193 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-09-25 13:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.546 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.206 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.680 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-09-25 10:40:36

End at: 2018-09-25 10:41:06

Local clock offset: 0.58 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.020 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.269 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.082 ms

Loss rate: 0.00%

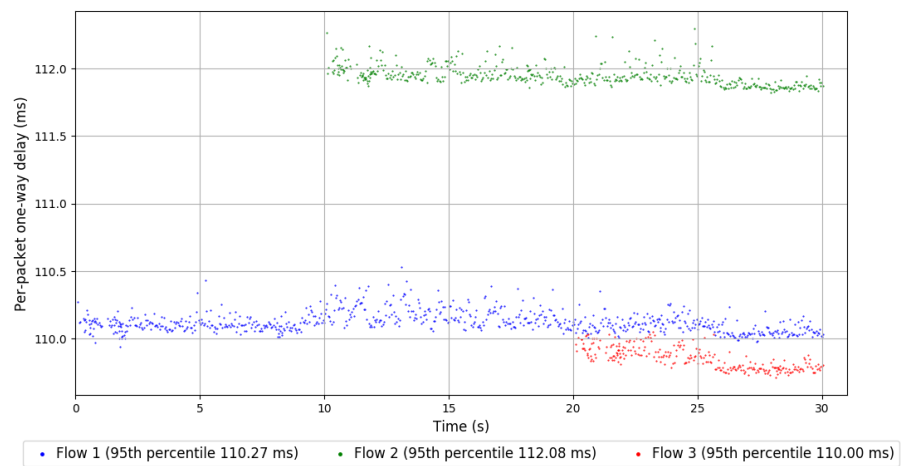
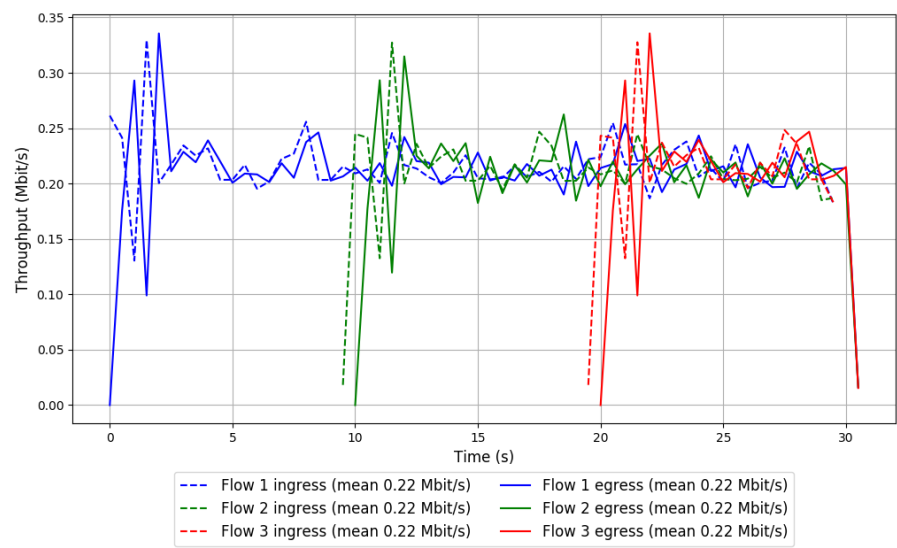
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.005 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-09-25 11:15:44

End at: 2018-09-25 11:16:14

Local clock offset: -0.688 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.892 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.714 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.706 ms

Loss rate: 0.00%

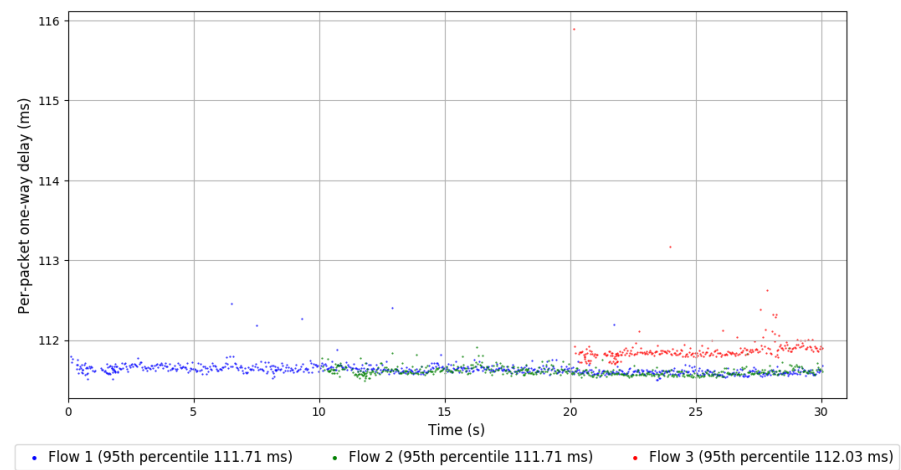
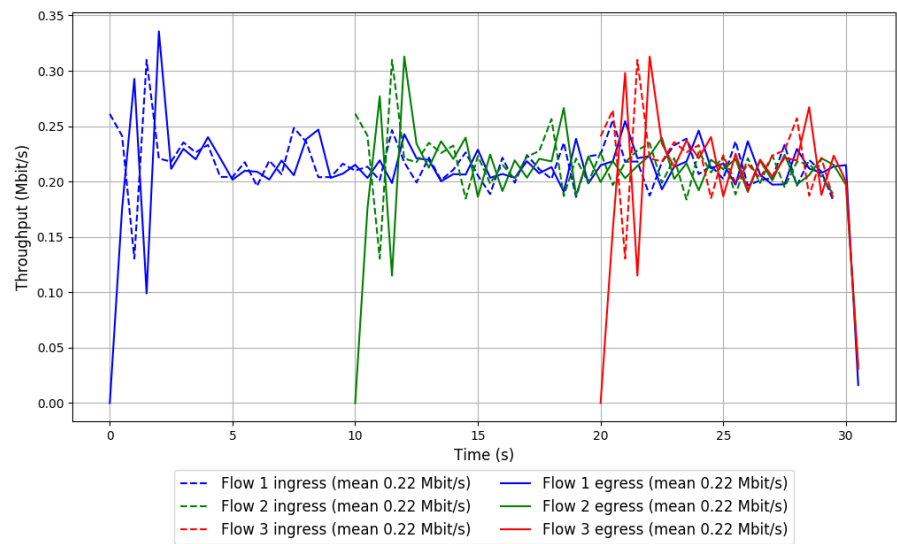
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.033 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-09-25 09:12:59

End at: 2018-09-25 09:13:29

Local clock offset: 0.654 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 111.859 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 111.426 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 111.977 ms

Loss rate: 0.00%

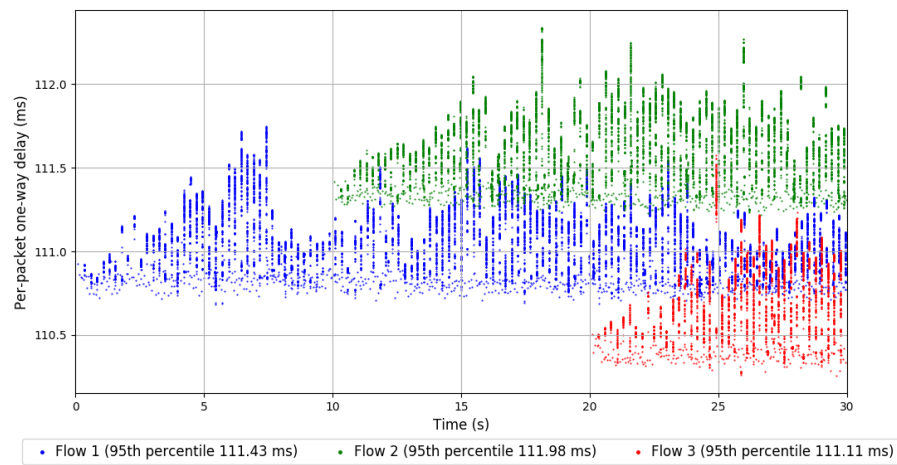
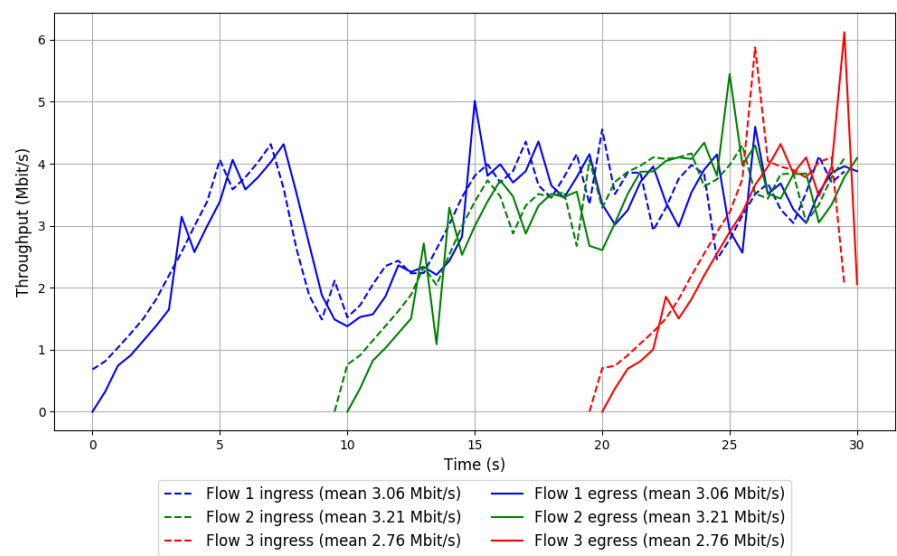
-- Flow 3:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 111.111 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

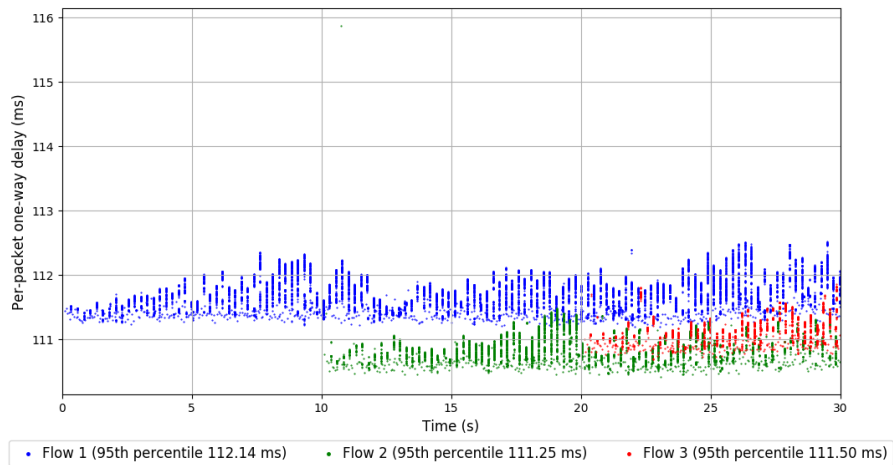
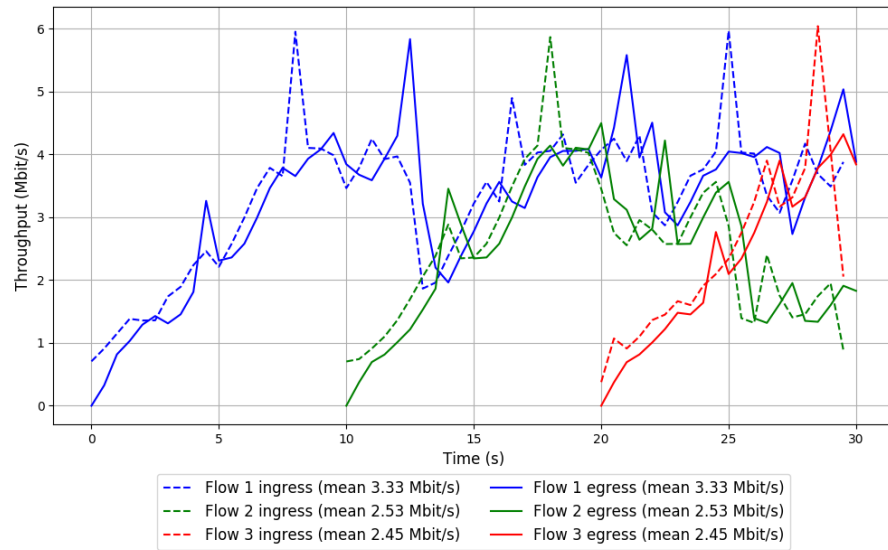


Run 2: Statistics of Sprout

Start at: 2018-09-25 09:48:31
End at: 2018-09-25 09:49:01
Local clock offset: -0.71 ms
Remote clock offset: -0.369 ms

```
# Below is generated by plot.py at 2018-09-25 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 112.061 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 112.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 111.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 111.497 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

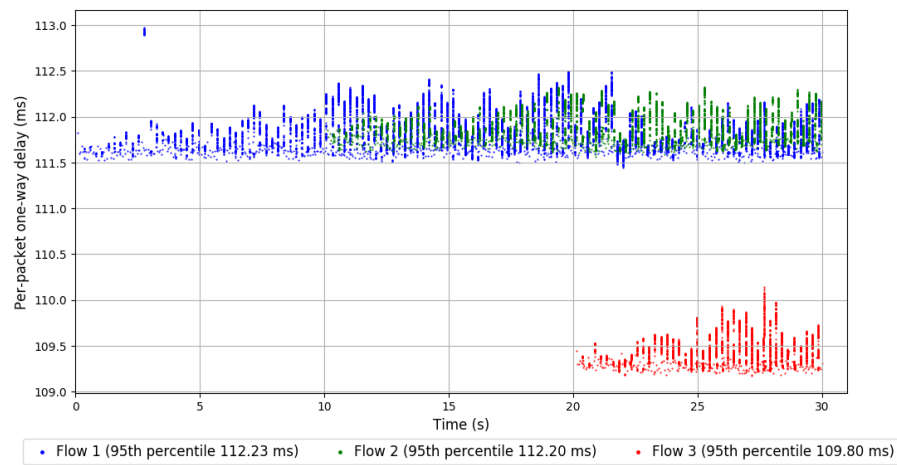
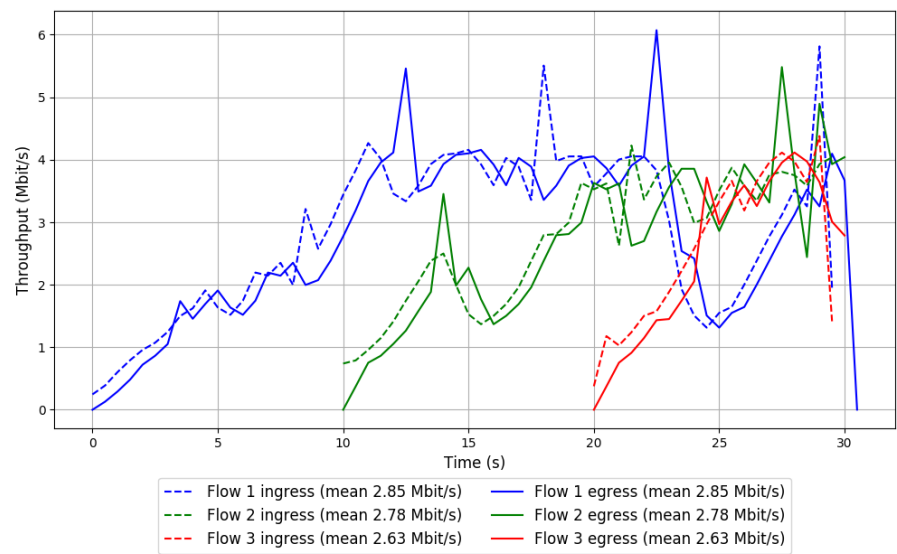


Run 3: Statistics of Sprout

Start at: 2018-09-25 10:23:39
End at: 2018-09-25 10:24:09
Local clock offset: -0.019 ms
Remote clock offset: -0.024 ms

```
# Below is generated by plot.py at 2018-09-25 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 112.198 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 112.233 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 112.197 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 109.795 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

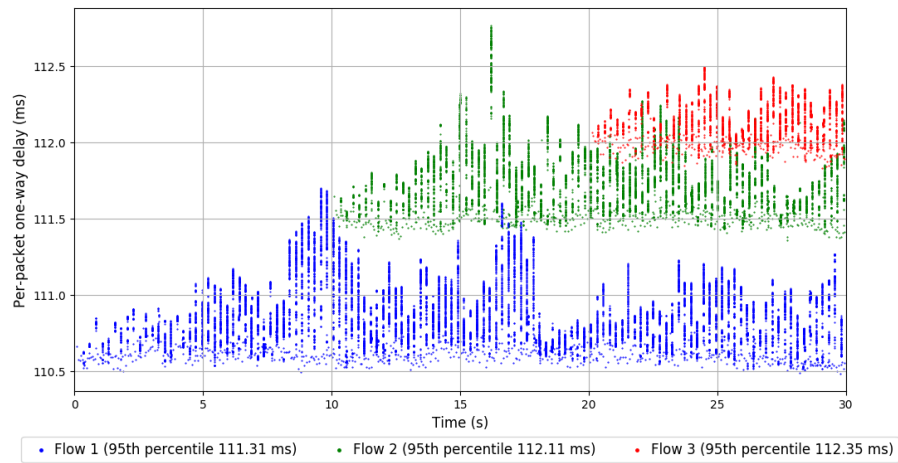
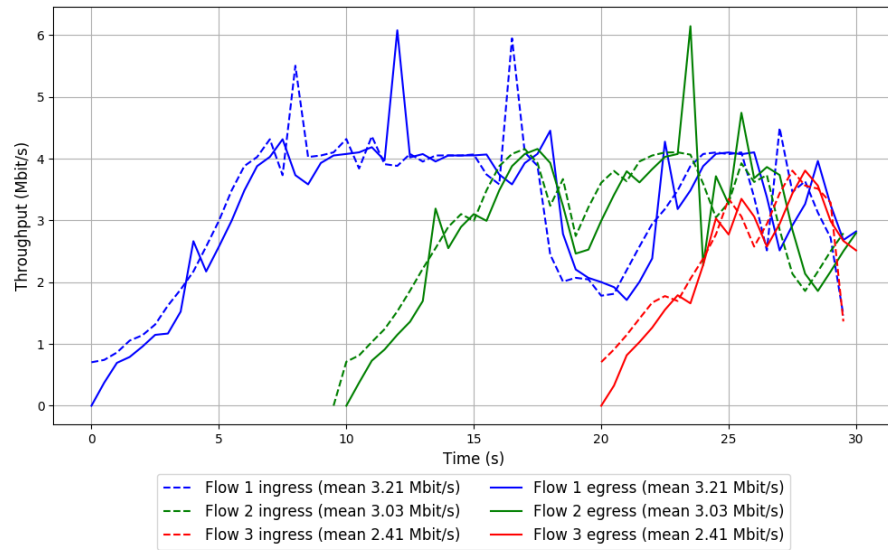


Run 4: Statistics of Sprout

Start at: 2018-09-25 10:58:56
End at: 2018-09-25 10:59:26
Local clock offset: -0.213 ms
Remote clock offset: 0.362 ms

```
# Below is generated by plot.py at 2018-09-25 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 112.200 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 111.309 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 112.112 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 112.347 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

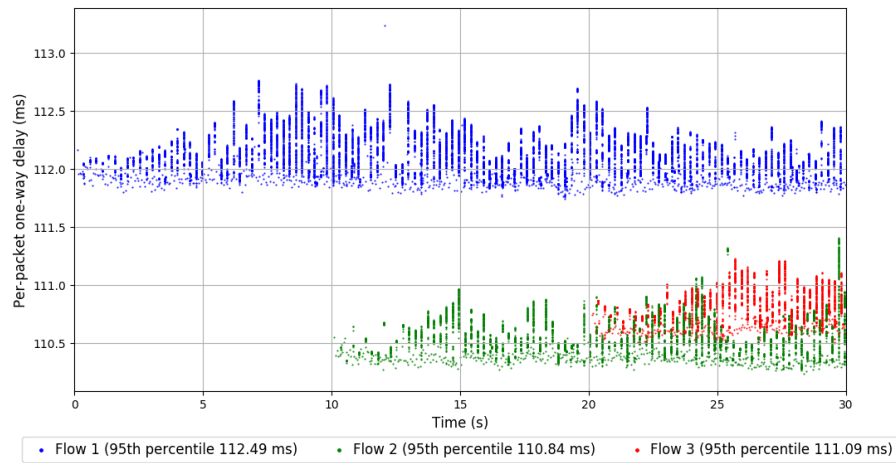
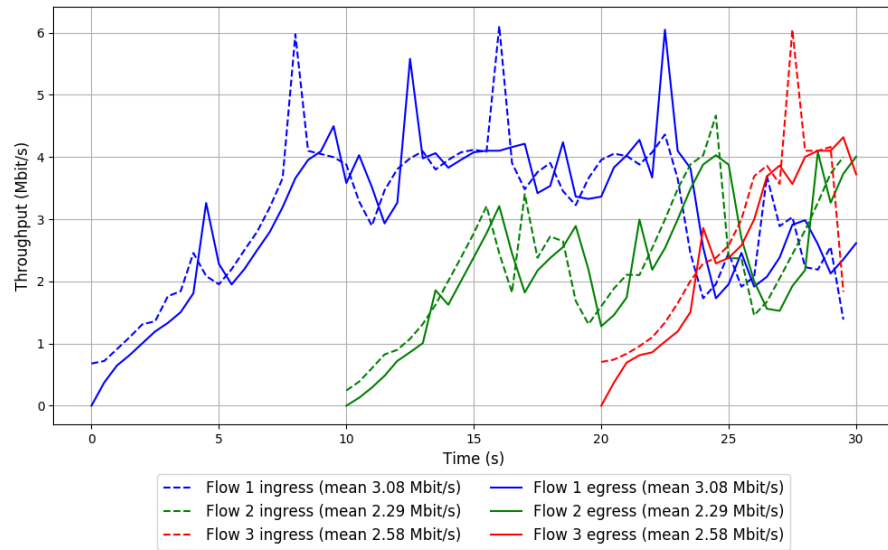


Run 5: Statistics of Sprout

Start at: 2018-09-25 11:34:10
End at: 2018-09-25 11:34:40
Local clock offset: -0.191 ms
Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-09-25 13:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 112.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 112.486 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 110.840 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 111.093 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-09-25 08:59:55

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

Local clock offset: 0.163 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-09-25 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.79 Mbit/s

95th percentile per-packet one-way delay: 175.835 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 90.42 Mbit/s

95th percentile per-packet one-way delay: 171.593 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 252.506 ms

Loss rate: 0.23%

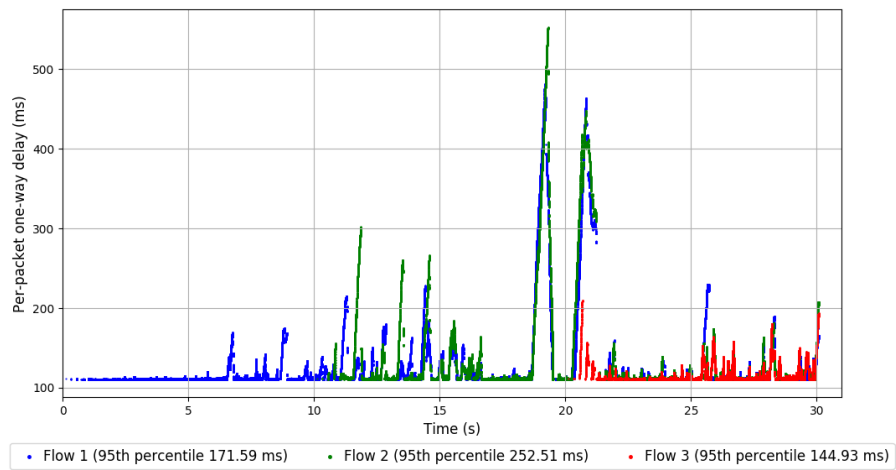
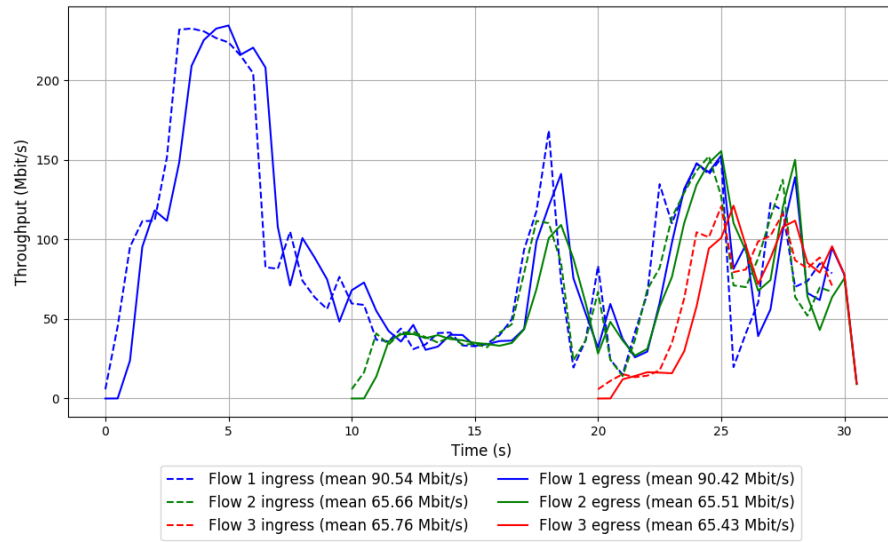
-- Flow 3:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 144.926 ms

Loss rate: 0.47%

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

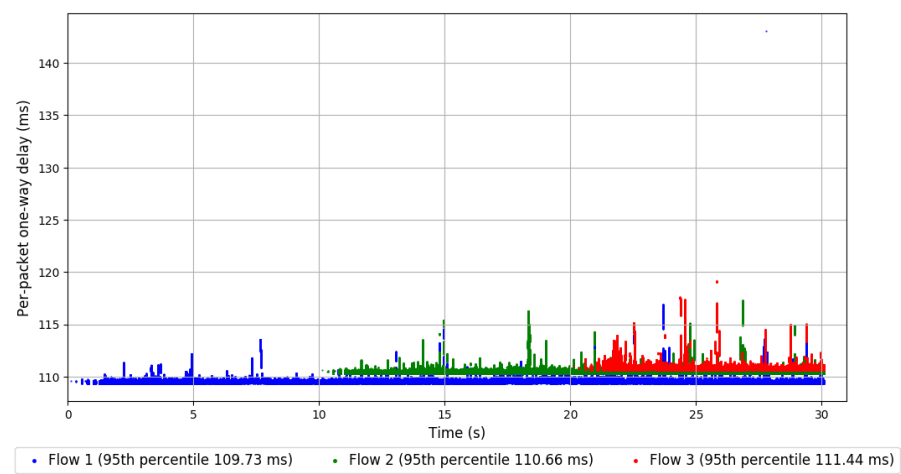
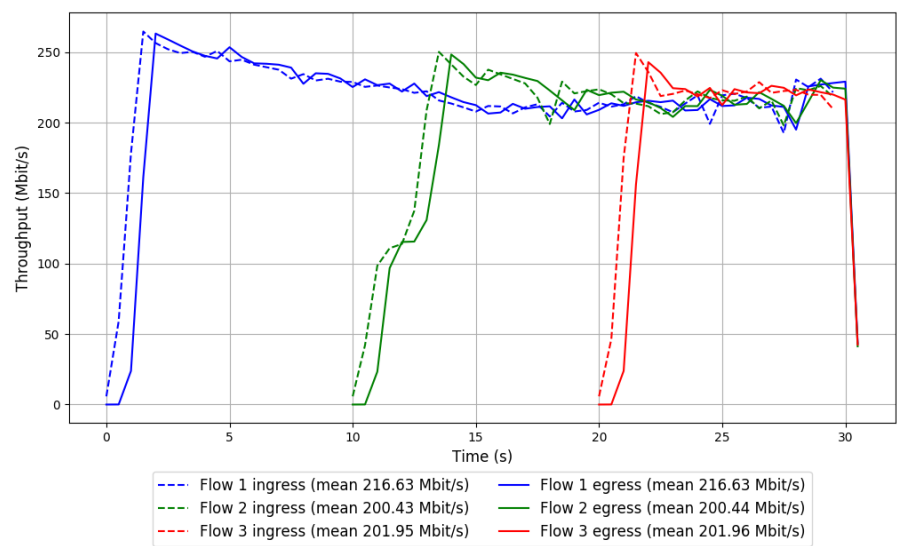


Run 2: Statistics of TaoVA-100x

Start at: 2018-09-25 09:34:53
End at: 2018-09-25 09:35:24
Local clock offset: -0.32 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-09-25 14:04:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 417.23 Mbit/s
95th percentile per-packet one-way delay: 110.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.63 Mbit/s
95th percentile per-packet one-way delay: 109.731 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.44 Mbit/s
95th percentile per-packet one-way delay: 110.663 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.96 Mbit/s
95th percentile per-packet one-way delay: 111.437 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

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

End at: 2018-09-25 10:10:47

Local clock offset: 1.398 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-09-25 14:04:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.47 Mbit/s

95th percentile per-packet one-way delay: 109.763 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.49 Mbit/s

95th percentile per-packet one-way delay: 109.660 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 204.45 Mbit/s

95th percentile per-packet one-way delay: 109.470 ms

Loss rate: 0.00%

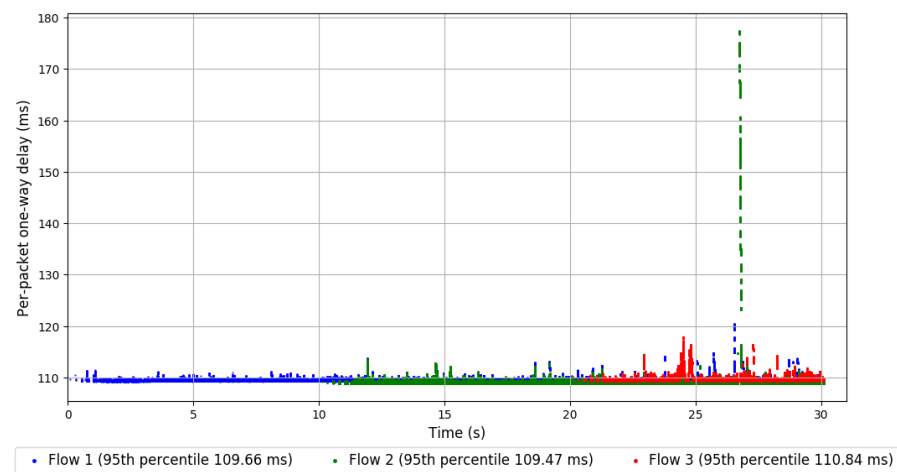
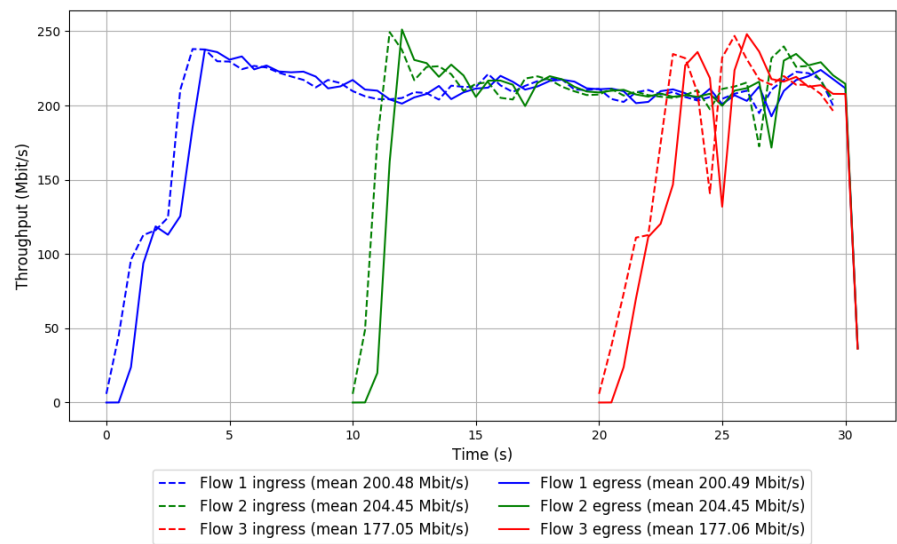
-- Flow 3:

Average throughput: 177.06 Mbit/s

95th percentile per-packet one-way delay: 110.839 ms

Loss rate: 0.00%

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

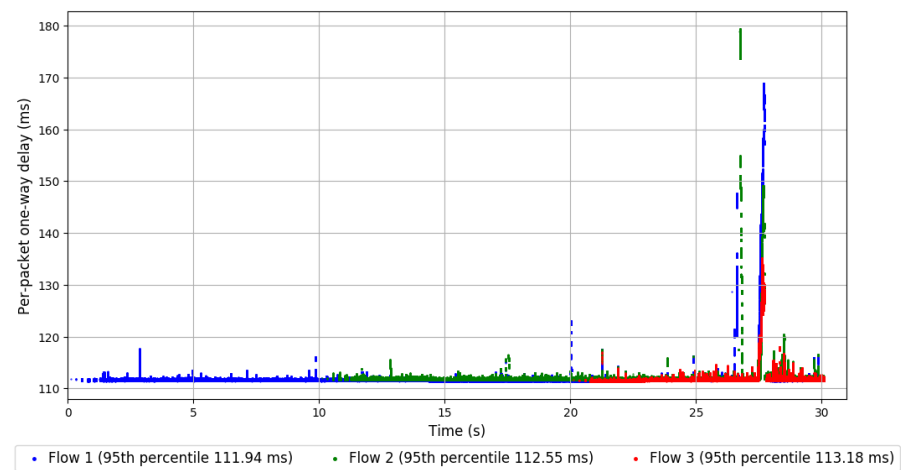
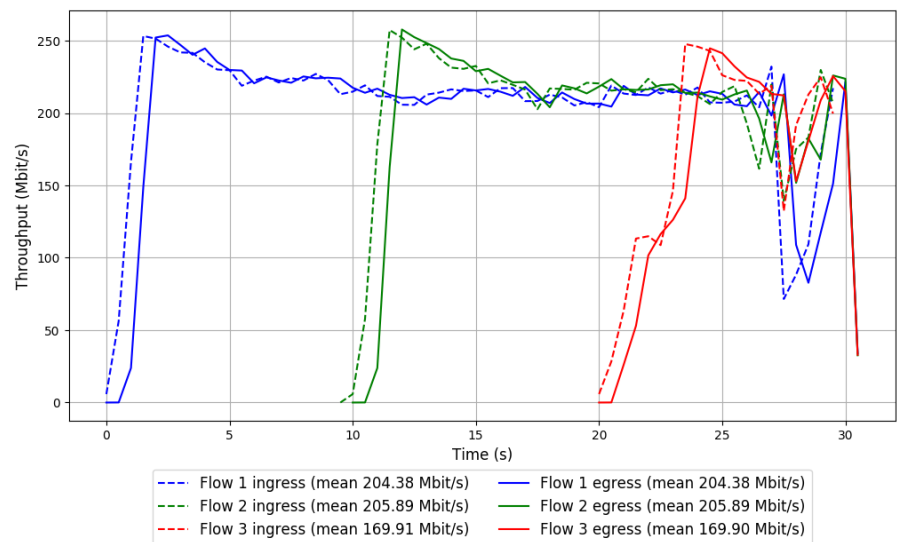


Run 4: Statistics of TaoVA-100x

Start at: 2018-09-25 10:45:28
End at: 2018-09-25 10:45:58
Local clock offset: -1.396 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-09-25 14:04:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 398.01 Mbit/s
95th percentile per-packet one-way delay: 112.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.38 Mbit/s
95th percentile per-packet one-way delay: 111.937 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 205.89 Mbit/s
95th percentile per-packet one-way delay: 112.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.90 Mbit/s
95th percentile per-packet one-way delay: 113.182 ms
Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-09-25 11:20:29

End at: 2018-09-25 11:20:59

Local clock offset: -0.431 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-09-25 14:06:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.54 Mbit/s

95th percentile per-packet one-way delay: 111.923 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 203.46 Mbit/s

95th percentile per-packet one-way delay: 111.624 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 205.52 Mbit/s

95th percentile per-packet one-way delay: 110.717 ms

Loss rate: 0.00%

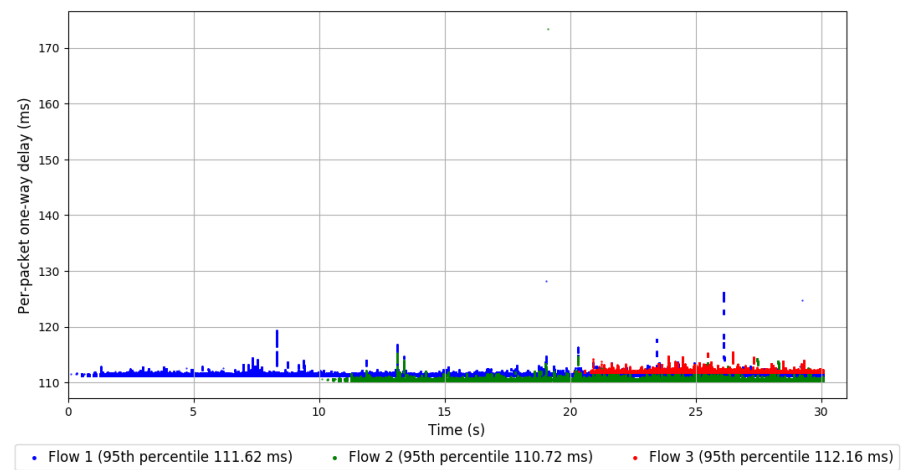
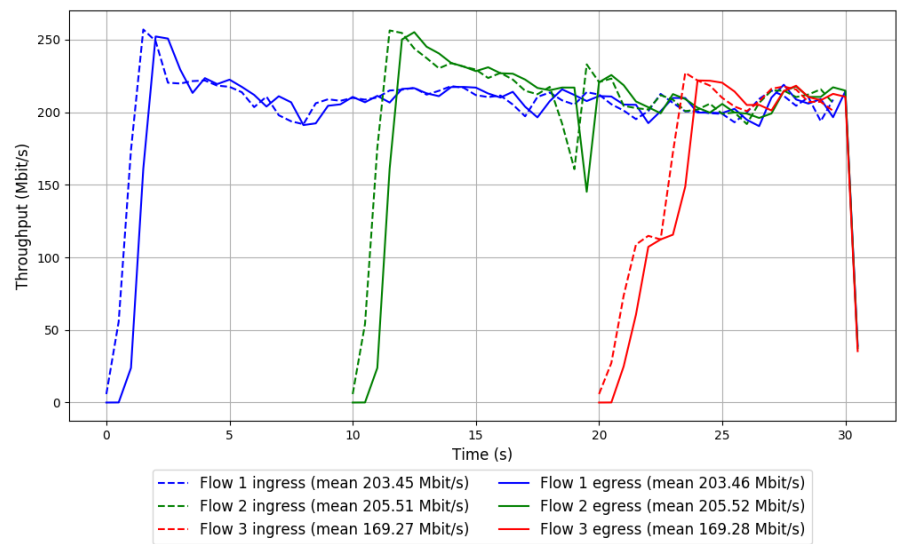
-- Flow 3:

Average throughput: 169.28 Mbit/s

95th percentile per-packet one-way delay: 112.158 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

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

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

Local clock offset: -0.674 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-09-25 14:07:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 773.00 Mbit/s

95th percentile per-packet one-way delay: 157.738 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 396.29 Mbit/s

95th percentile per-packet one-way delay: 112.559 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 418.62 Mbit/s

95th percentile per-packet one-way delay: 167.827 ms

Loss rate: 0.24%

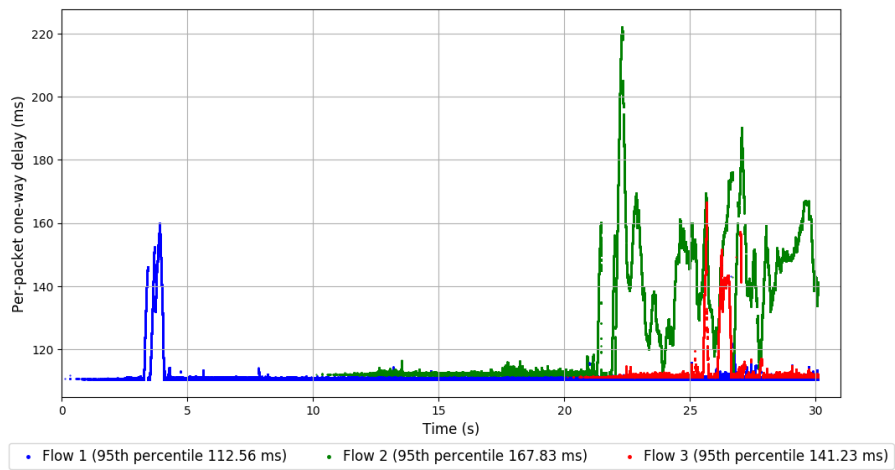
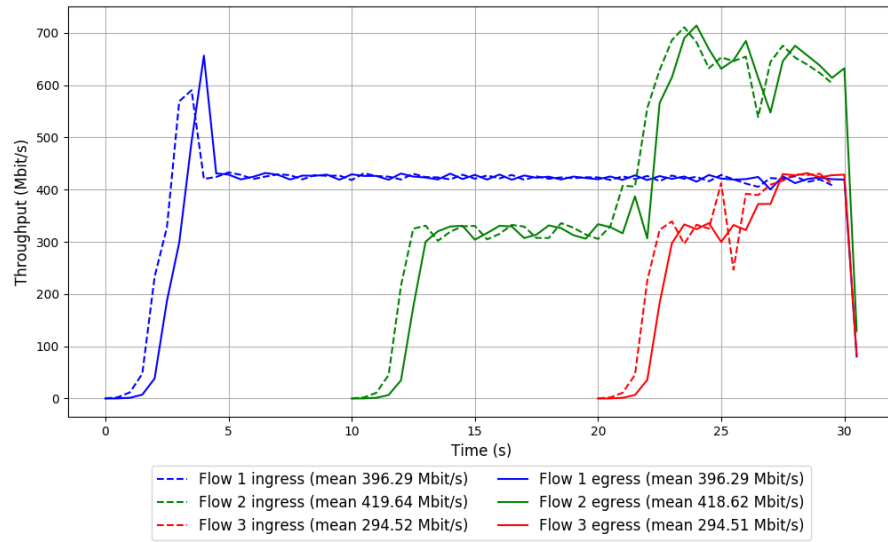
-- Flow 3:

Average throughput: 294.51 Mbit/s

95th percentile per-packet one-way delay: 141.232 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

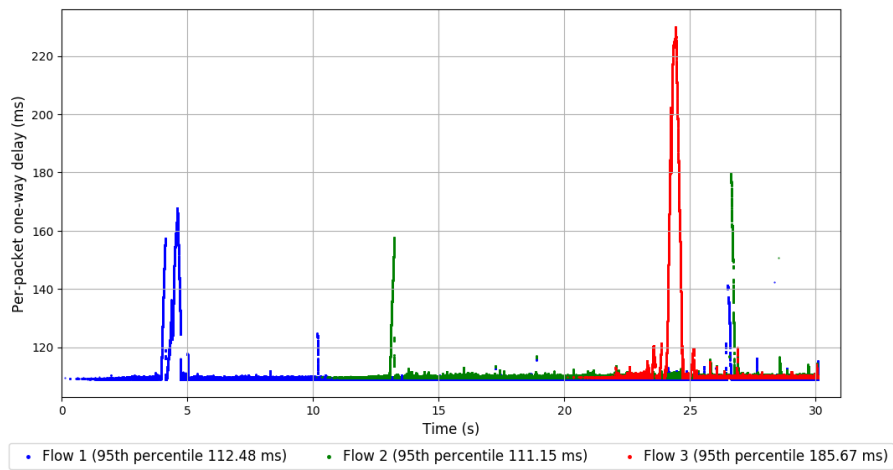
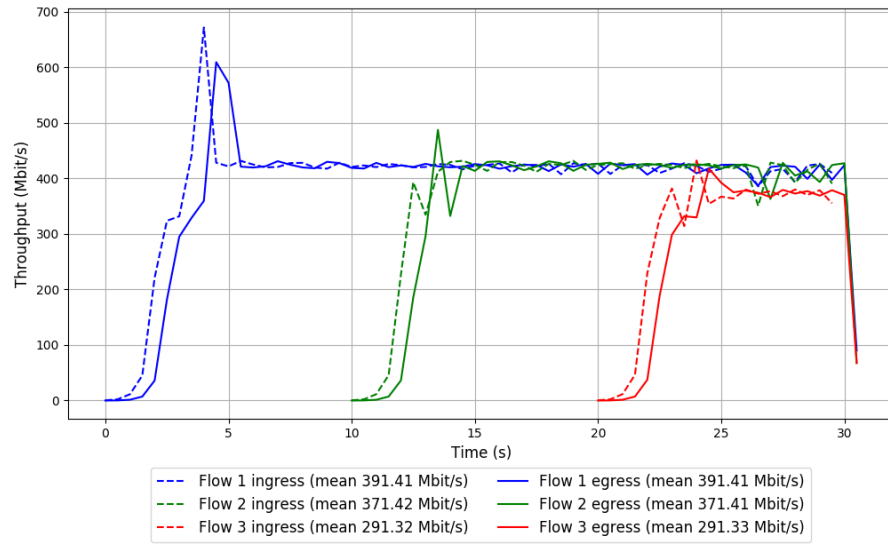


Run 2: Statistics of TCP Vegas

Start at: 2018-09-25 09:54:13
End at: 2018-09-25 09:54:43
Local clock offset: -0.02 ms
Remote clock offset: -0.361 ms

Below is generated by plot.py at 2018-09-25 14:08:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 735.73 Mbit/s
95th percentile per-packet one-way delay: 114.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 391.41 Mbit/s
95th percentile per-packet one-way delay: 112.483 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 371.41 Mbit/s
95th percentile per-packet one-way delay: 111.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 291.33 Mbit/s
95th percentile per-packet one-way delay: 185.674 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-09-25 10:29:26

End at: 2018-09-25 10:29:56

Local clock offset: 1.161 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-09-25 14:10:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 782.41 Mbit/s

95th percentile per-packet one-way delay: 140.968 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 449.04 Mbit/s

95th percentile per-packet one-way delay: 129.416 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 358.71 Mbit/s

95th percentile per-packet one-way delay: 147.733 ms

Loss rate: 0.00%

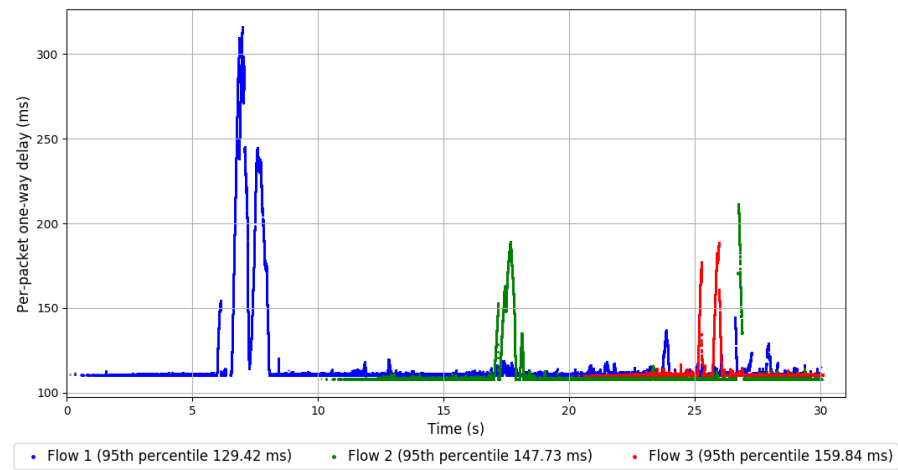
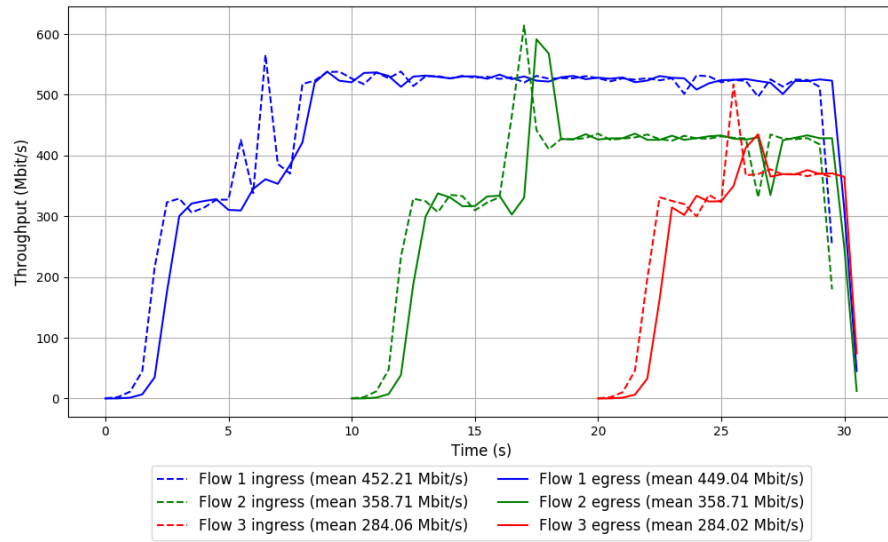
-- Flow 3:

Average throughput: 284.02 Mbit/s

95th percentile per-packet one-way delay: 159.842 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-09-25 11:04:38

End at: 2018-09-25 11:05:08

Local clock offset: -0.132 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-09-25 14:11:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 675.98 Mbit/s

95th percentile per-packet one-way delay: 138.741 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 390.29 Mbit/s

95th percentile per-packet one-way delay: 113.609 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 262.91 Mbit/s

95th percentile per-packet one-way delay: 112.625 ms

Loss rate: 0.00%

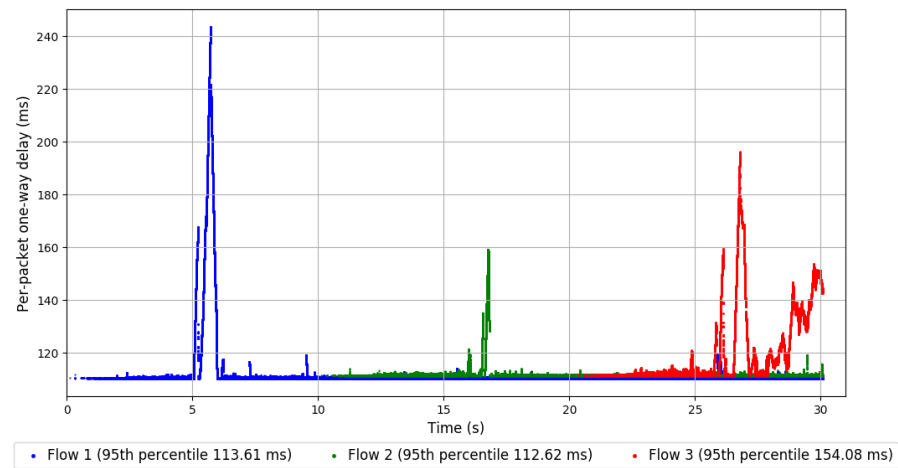
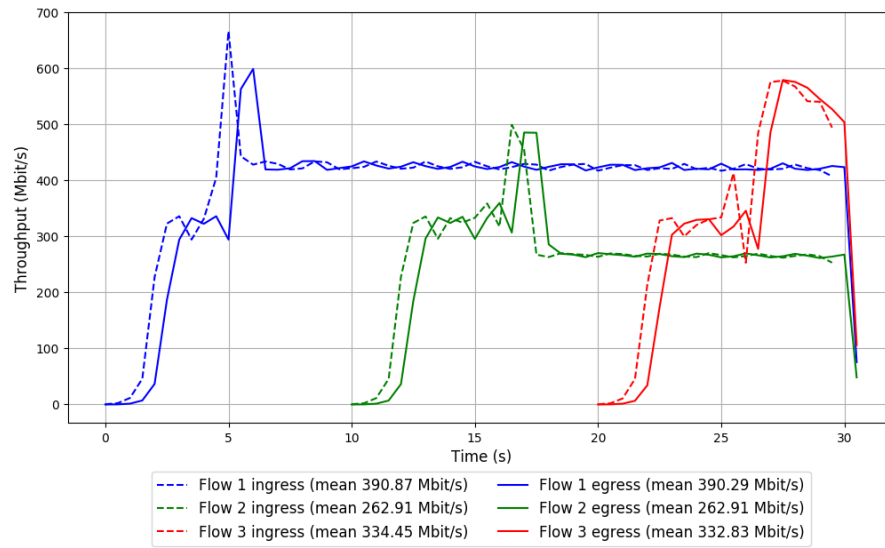
-- Flow 3:

Average throughput: 332.83 Mbit/s

95th percentile per-packet one-way delay: 154.079 ms

Loss rate: 0.48%

Run 4: Report of TCP Vegas — Data Link

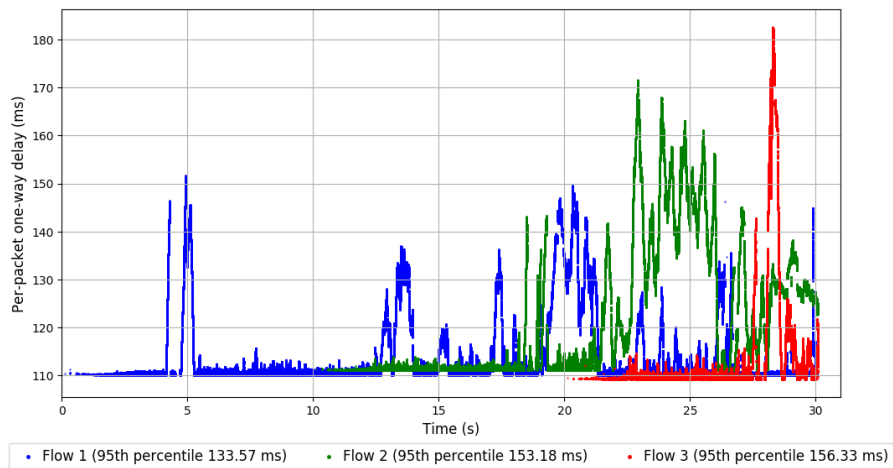
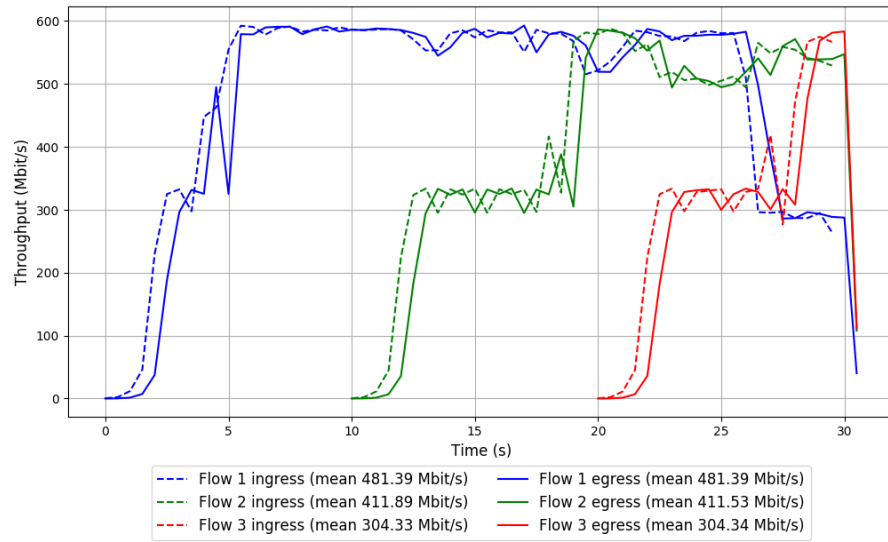


Run 5: Statistics of TCP Vegas

Start at: 2018-09-25 11:39:53
End at: 2018-09-25 11:40:23
Local clock offset: -0.152 ms
Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-09-25 14:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 856.11 Mbit/s
95th percentile per-packet one-way delay: 144.304 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 481.39 Mbit/s
95th percentile per-packet one-way delay: 133.568 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 411.53 Mbit/s
95th percentile per-packet one-way delay: 153.181 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 304.34 Mbit/s
95th percentile per-packet one-way delay: 156.330 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-09-25 09:23:01

End at: 2018-09-25 09:23:31

Local clock offset: -0.109 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-09-25 14:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.68 Mbit/s

95th percentile per-packet one-way delay: 255.148 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 198.42 Mbit/s

95th percentile per-packet one-way delay: 253.313 ms

Loss rate: 3.60%

-- Flow 2:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 123.917 ms

Loss rate: 0.00%

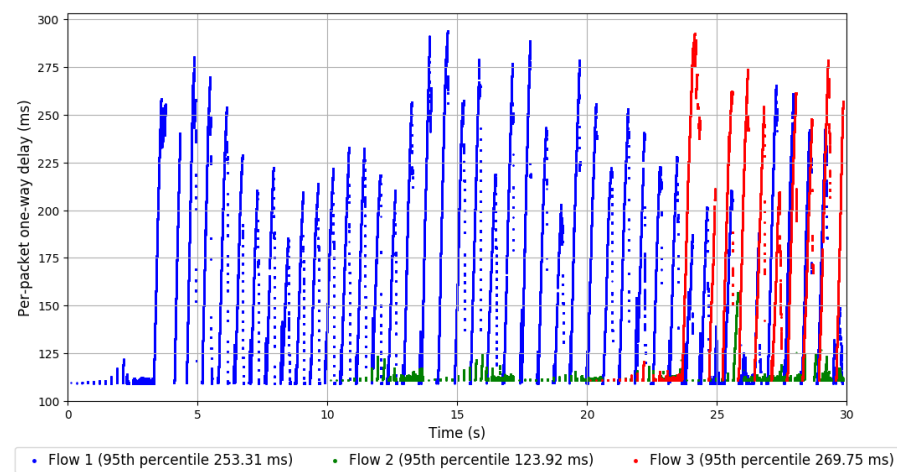
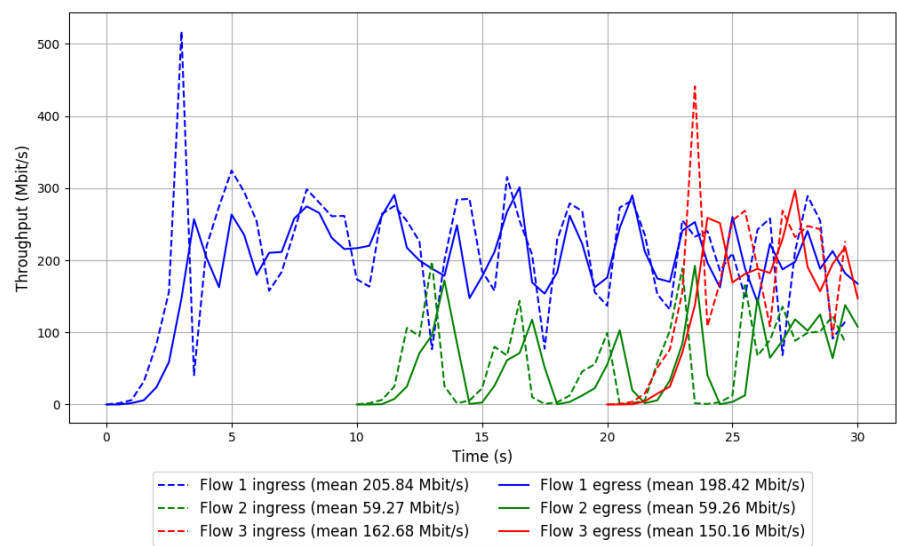
-- Flow 3:

Average throughput: 150.16 Mbit/s

95th percentile per-packet one-way delay: 269.755 ms

Loss rate: 7.57%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-09-25 09:58:24

End at: 2018-09-25 09:58:54

Local clock offset: -1.499 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-09-25 14:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.64 Mbit/s

95th percentile per-packet one-way delay: 260.096 ms

Loss rate: 6.09%

-- Flow 1:

Average throughput: 166.13 Mbit/s

95th percentile per-packet one-way delay: 262.395 ms

Loss rate: 8.48%

-- Flow 2:

Average throughput: 126.44 Mbit/s

95th percentile per-packet one-way delay: 258.890 ms

Loss rate: 2.73%

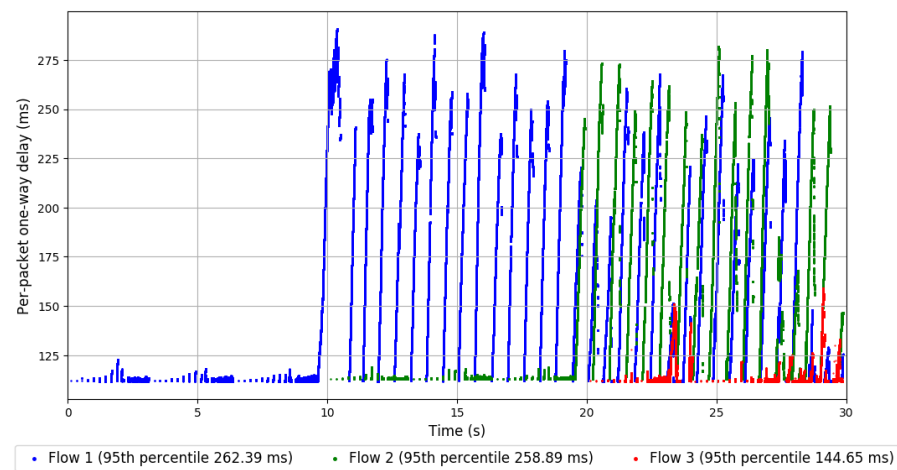
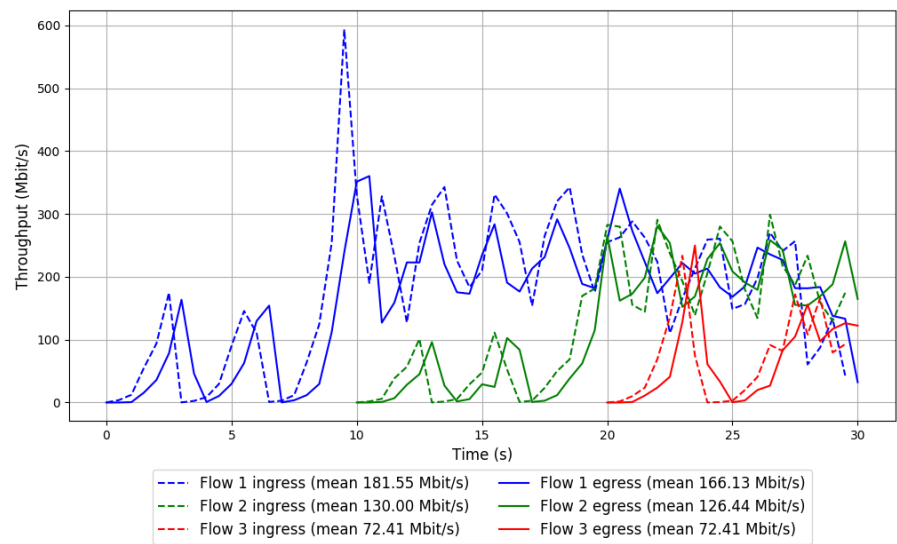
-- Flow 3:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 144.646 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-09-25 10:33:36

End at: 2018-09-25 10:34:06

Local clock offset: -0.054 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-09-25 14:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.30 Mbit/s

95th percentile per-packet one-way delay: 258.653 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 153.82 Mbit/s

95th percentile per-packet one-way delay: 258.798 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 266.139 ms

Loss rate: 4.26%

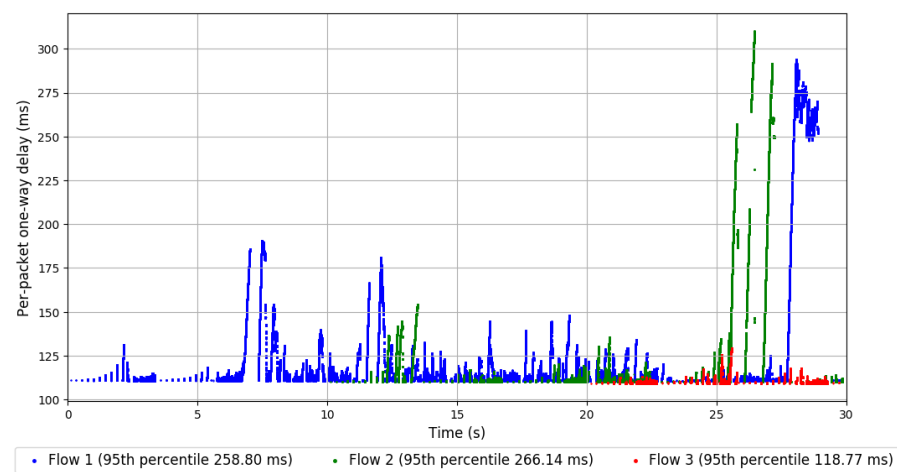
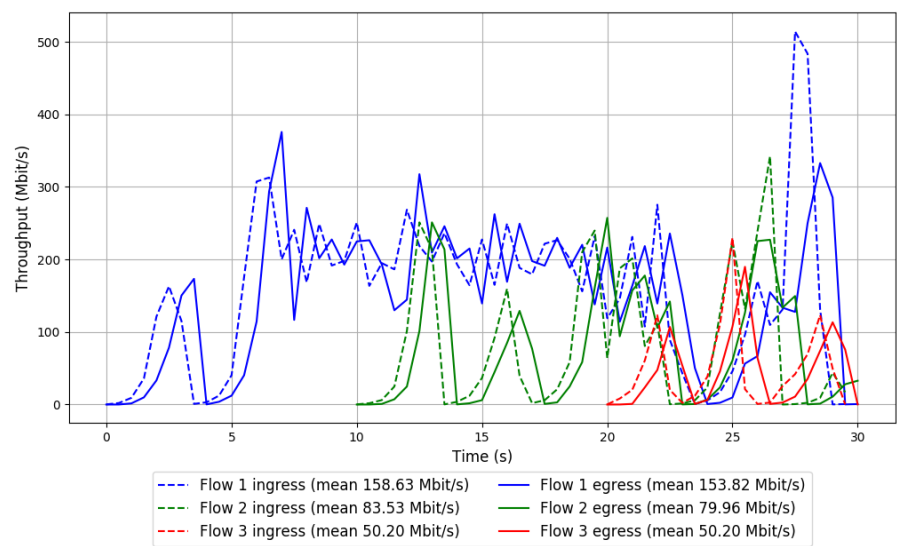
-- Flow 3:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 118.767 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-09-25 11:08:47

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

Local clock offset: 0.107 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-09-25 14:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.66 Mbit/s

95th percentile per-packet one-way delay: 265.470 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 67.38 Mbit/s

95th percentile per-packet one-way delay: 120.112 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 136.56 Mbit/s

95th percentile per-packet one-way delay: 267.712 ms

Loss rate: 3.77%

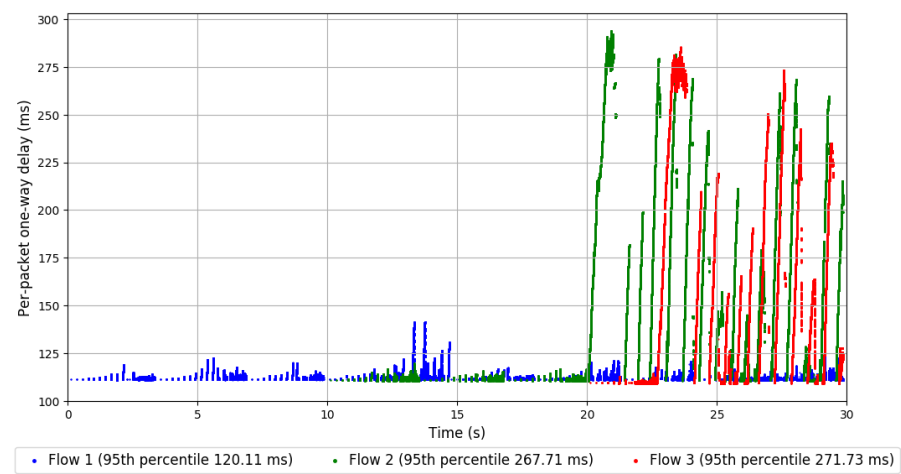
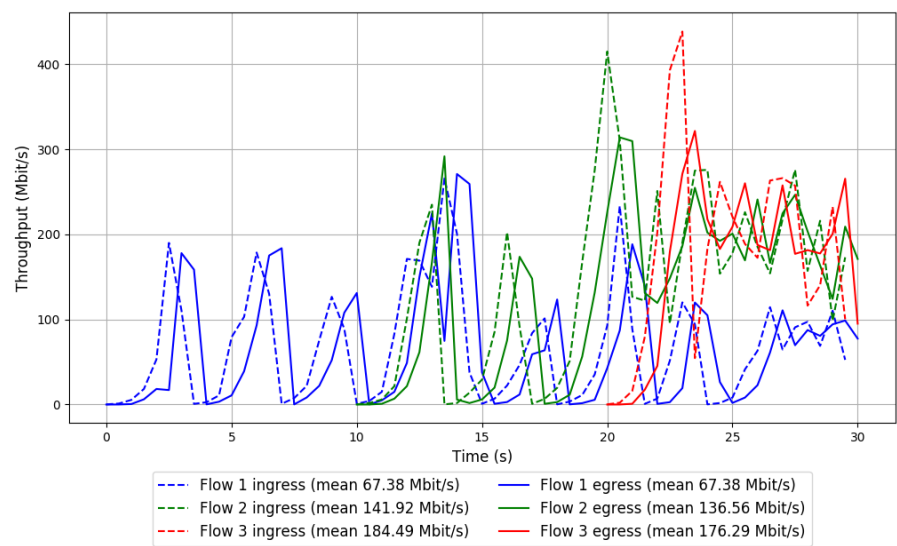
-- Flow 3:

Average throughput: 176.29 Mbit/s

95th percentile per-packet one-way delay: 271.732 ms

Loss rate: 4.42%

Run 4: Report of Verus — Data Link

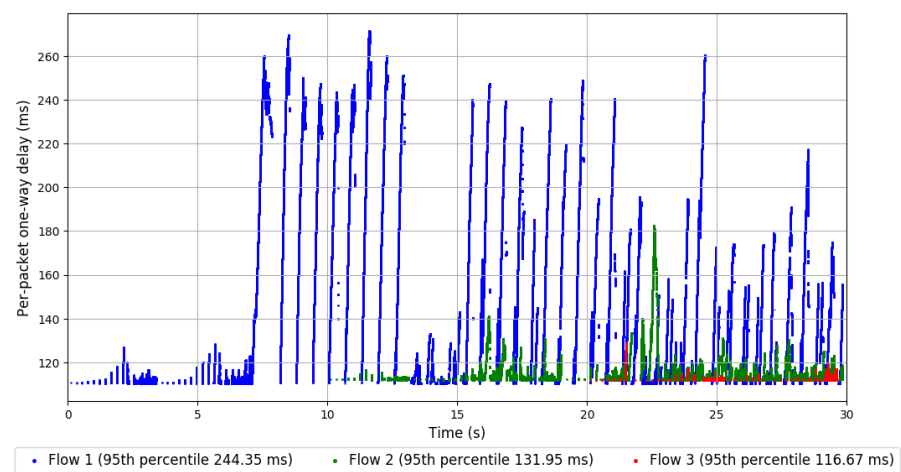
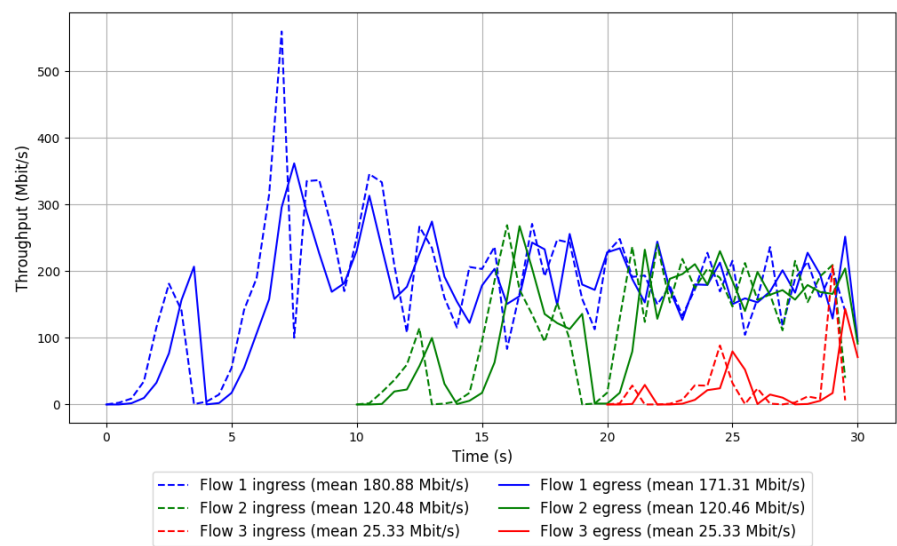


Run 5: Statistics of Verus

Start at: 2018-09-25 11:44:13
End at: 2018-09-25 11:44:43
Local clock offset: -0.12 ms
Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-09-25 14:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 259.31 Mbit/s
95th percentile per-packet one-way delay: 239.084 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 171.31 Mbit/s
95th percentile per-packet one-way delay: 244.347 ms
Loss rate: 5.28%
-- Flow 2:
Average throughput: 120.46 Mbit/s
95th percentile per-packet one-way delay: 131.949 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 116.673 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

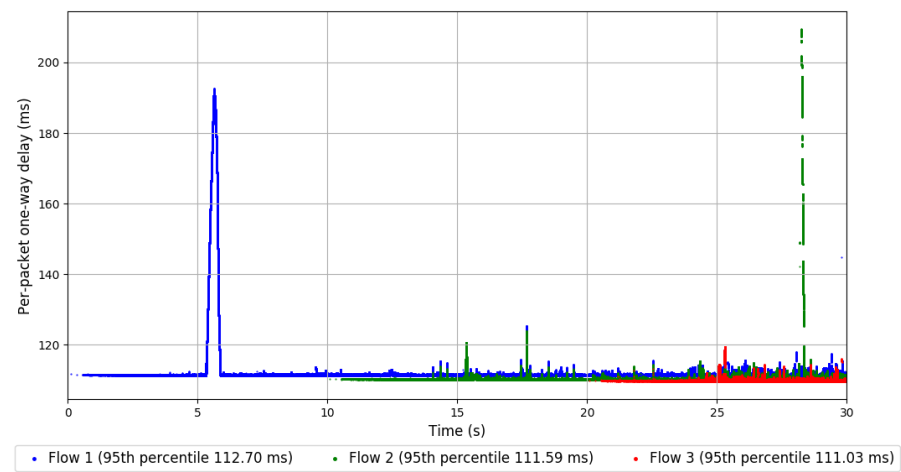
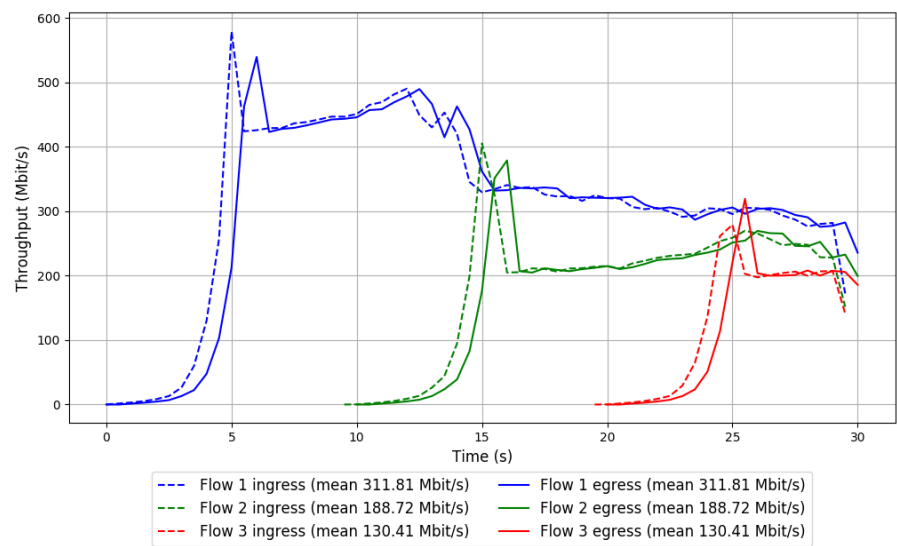


Run 1: Statistics of PCC-Vivace

Start at: 2018-09-25 09:05:33
End at: 2018-09-25 09:06:03
Local clock offset: -0.05 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2018-09-25 14:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 480.62 Mbit/s
95th percentile per-packet one-way delay: 112.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 311.81 Mbit/s
95th percentile per-packet one-way delay: 112.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 188.72 Mbit/s
95th percentile per-packet one-way delay: 111.587 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.41 Mbit/s
95th percentile per-packet one-way delay: 111.030 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

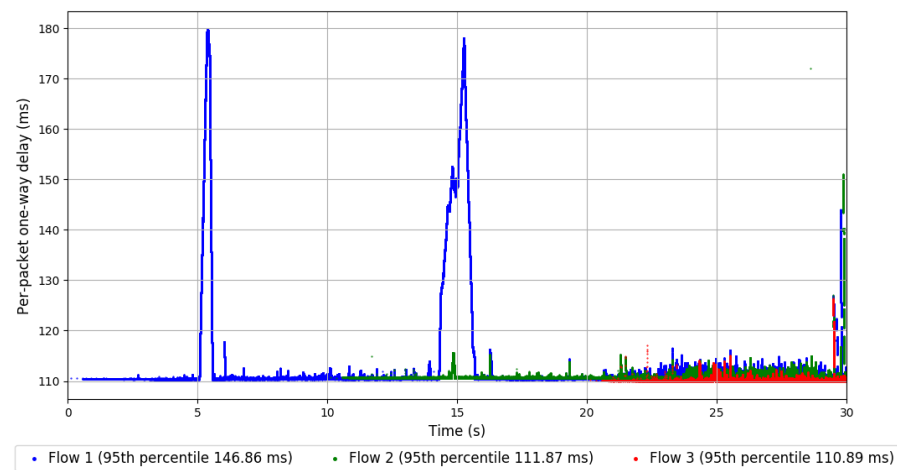
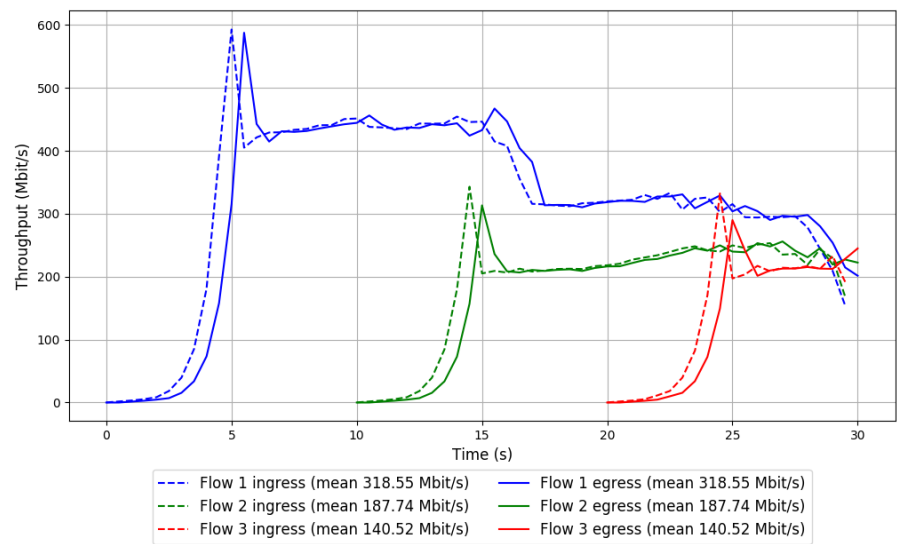


Run 2: Statistics of PCC-Vivace

Start at: 2018-09-25 09:40:52
End at: 2018-09-25 09:41:22
Local clock offset: -0.704 ms
Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-09-25 14:19:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 489.83 Mbit/s
95th percentile per-packet one-way delay: 130.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 318.55 Mbit/s
95th percentile per-packet one-way delay: 146.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 187.74 Mbit/s
95th percentile per-packet one-way delay: 111.869 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 140.52 Mbit/s
95th percentile per-packet one-way delay: 110.893 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

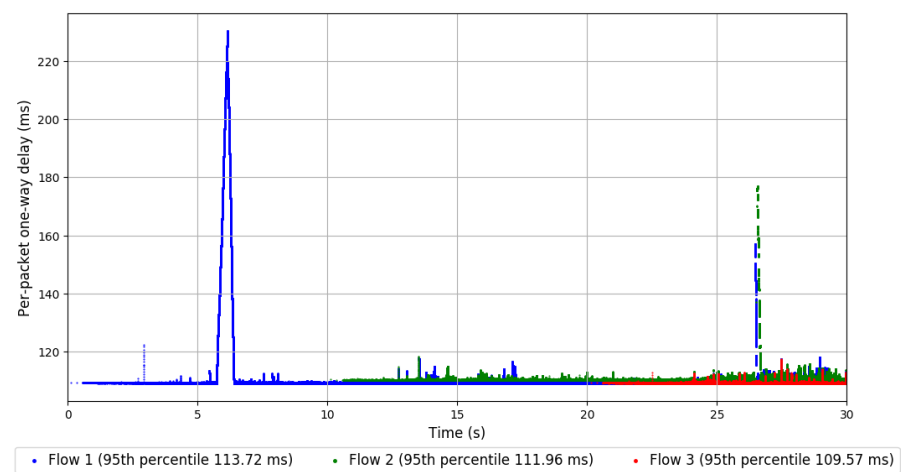
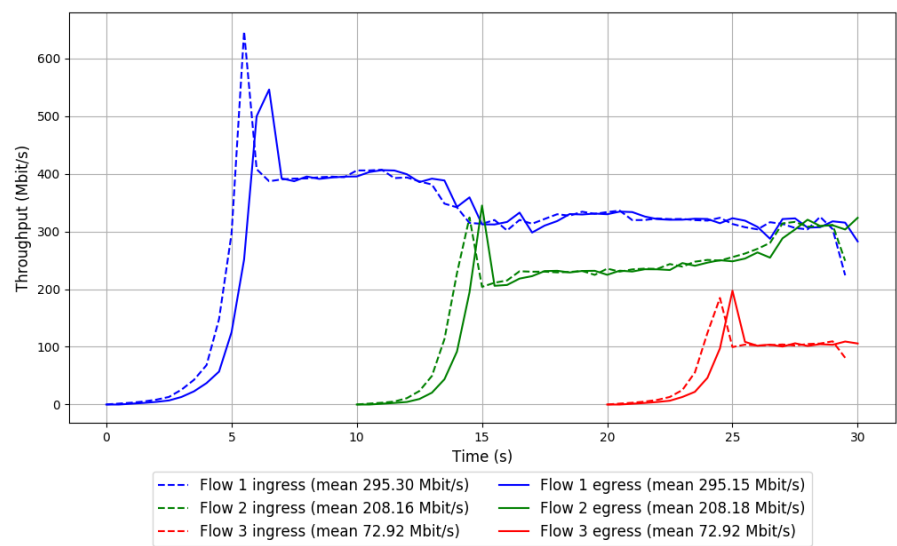


Run 3: Statistics of PCC-Vivace

Start at: 2018-09-25 10:16:15
End at: 2018-09-25 10:16:45
Local clock offset: 0.528 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-09-25 14:19:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 457.58 Mbit/s
95th percentile per-packet one-way delay: 112.258 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 295.15 Mbit/s
95th percentile per-packet one-way delay: 113.723 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 208.18 Mbit/s
95th percentile per-packet one-way delay: 111.964 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.92 Mbit/s
95th percentile per-packet one-way delay: 109.570 ms
Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link

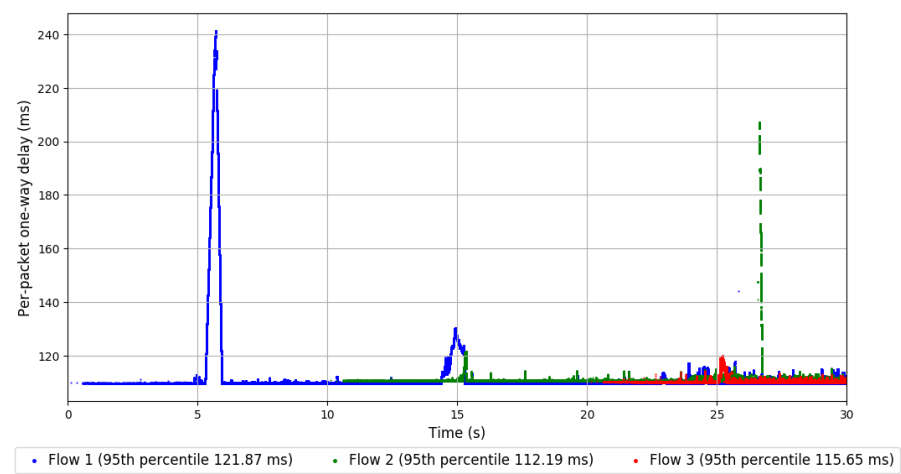
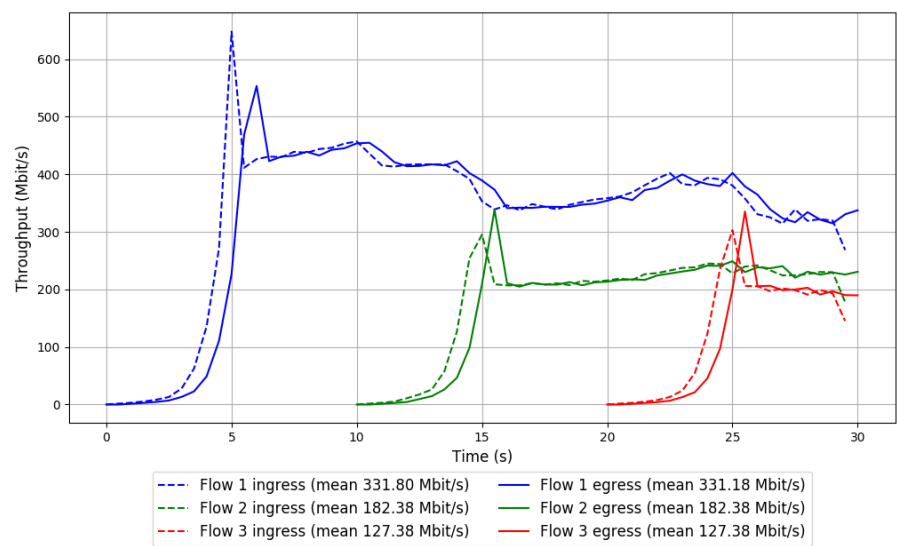


Run 4: Statistics of PCC-Vivace

Start at: 2018-09-25 10:51:27
End at: 2018-09-25 10:51:57
Local clock offset: -0.127 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-09-25 14:20:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 494.36 Mbit/s
95th percentile per-packet one-way delay: 116.416 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 331.18 Mbit/s
95th percentile per-packet one-way delay: 121.866 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 182.38 Mbit/s
95th percentile per-packet one-way delay: 112.185 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.38 Mbit/s
95th percentile per-packet one-way delay: 115.654 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-09-25 11:26:27

End at: 2018-09-25 11:26:57

Local clock offset: -0.939 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-09-25 14:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 570.51 Mbit/s

95th percentile per-packet one-way delay: 136.415 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 331.19 Mbit/s

95th percentile per-packet one-way delay: 115.401 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 296.06 Mbit/s

95th percentile per-packet one-way delay: 152.891 ms

Loss rate: 0.00%

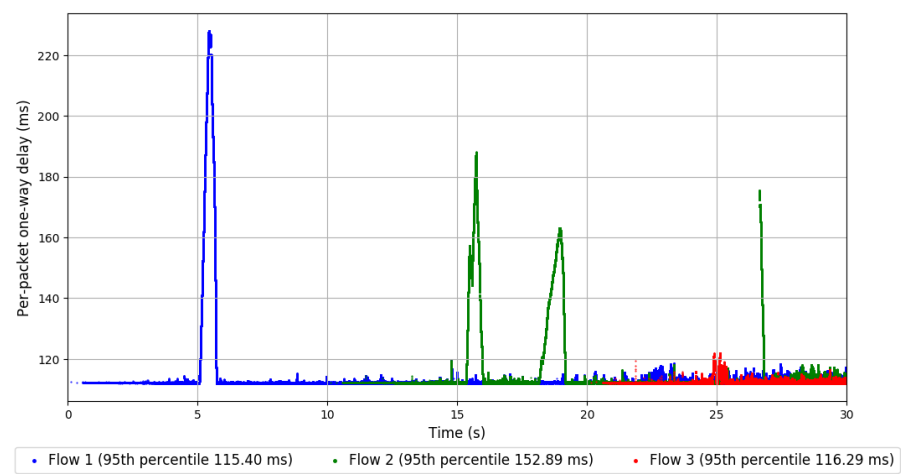
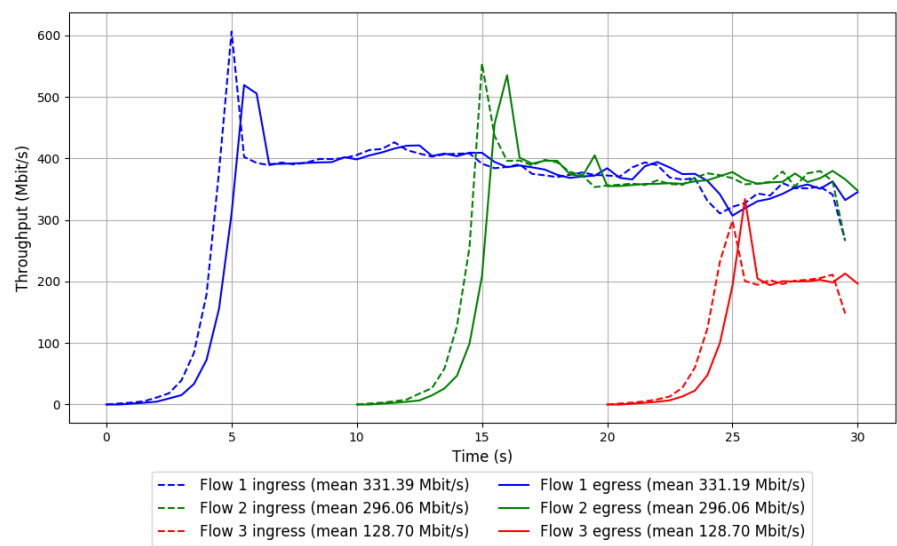
-- Flow 3:

Average throughput: 128.70 Mbit/s

95th percentile per-packet one-way delay: 116.287 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-09-25 08:54:03

End at: 2018-09-25 08:54:33

Local clock offset: 1.002 ms

Remote clock offset: 0.471 ms

Below is generated by plot.py at 2018-09-25 14:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 110.500 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 109.656 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 110.535 ms

Loss rate: 0.00%

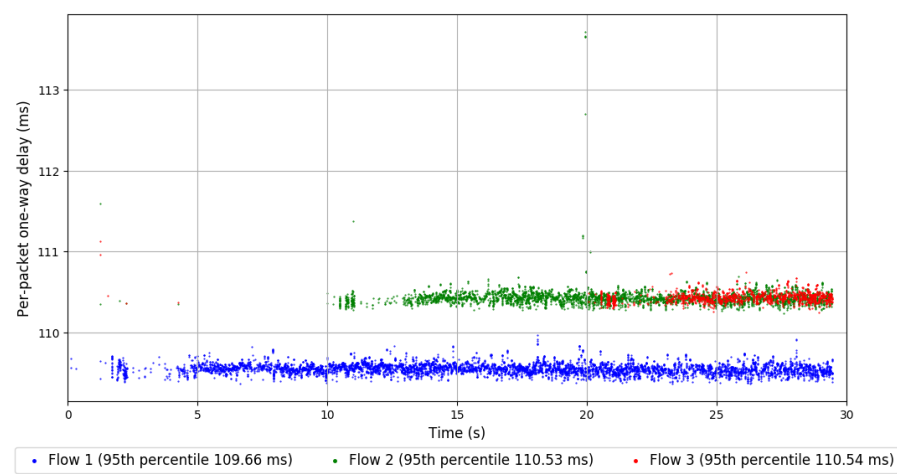
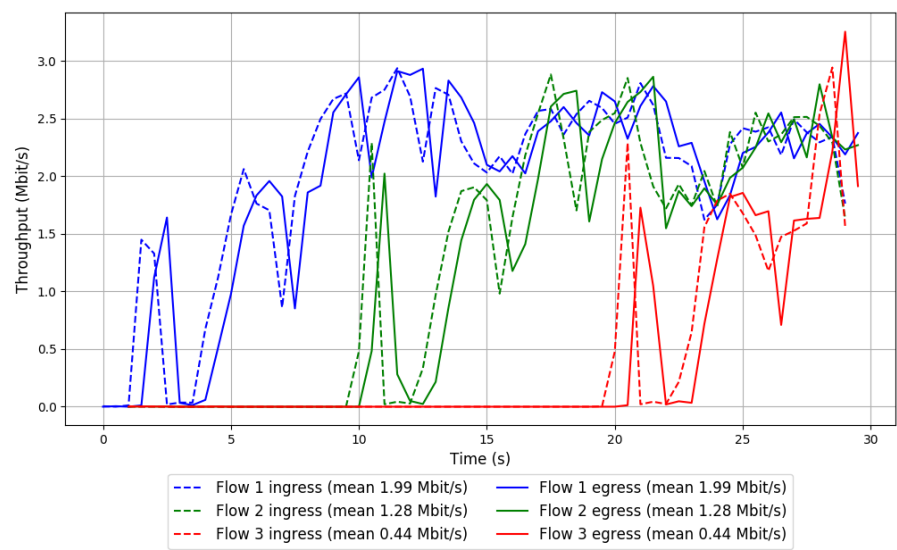
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 110.544 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-09-25 09:28:49

End at: 2018-09-25 09:29:19

Local clock offset: -1.294 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-09-25 14:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 112.419 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 112.439 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 111.679 ms

Loss rate: 0.00%

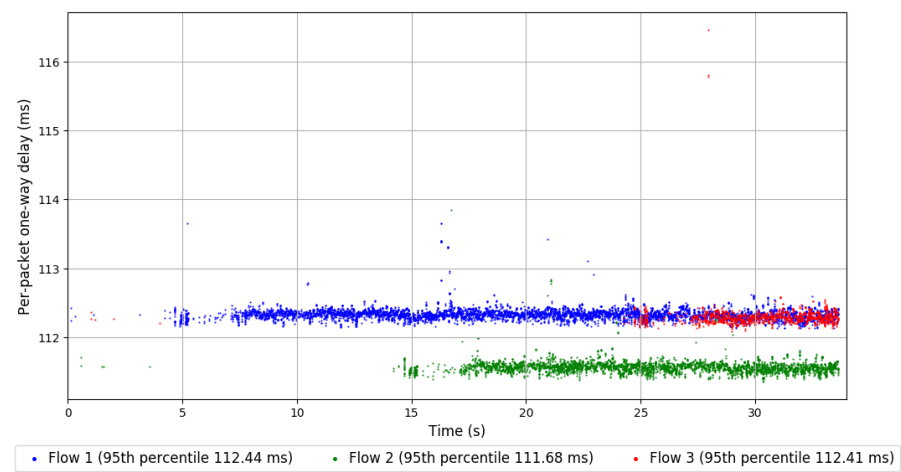
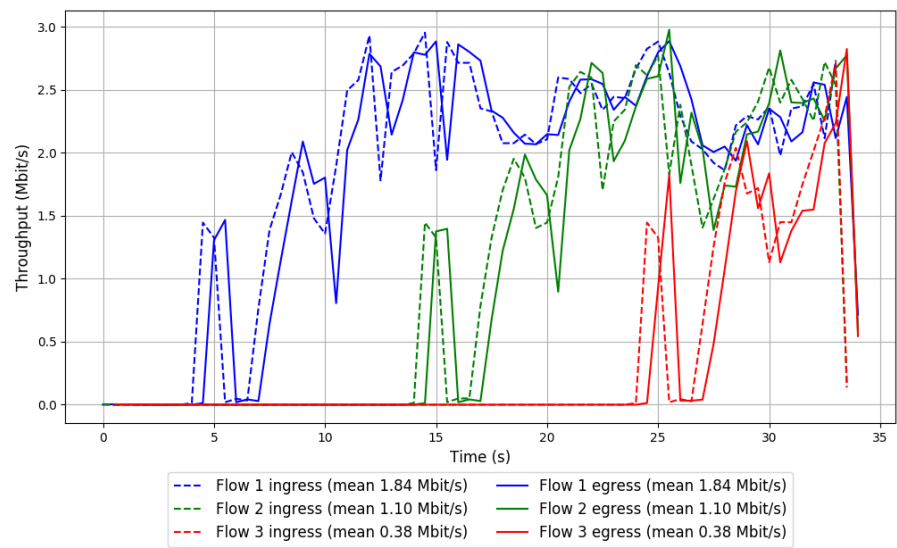
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 112.414 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-09-25 10:04:12

End at: 2018-09-25 10:04:42

Local clock offset: -0.221 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-09-25 14:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 112.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 112.168 ms

Loss rate: 0.00%

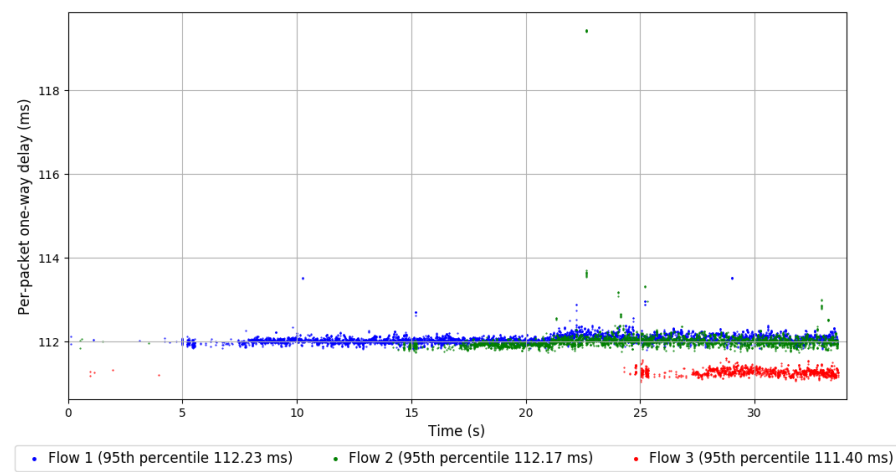
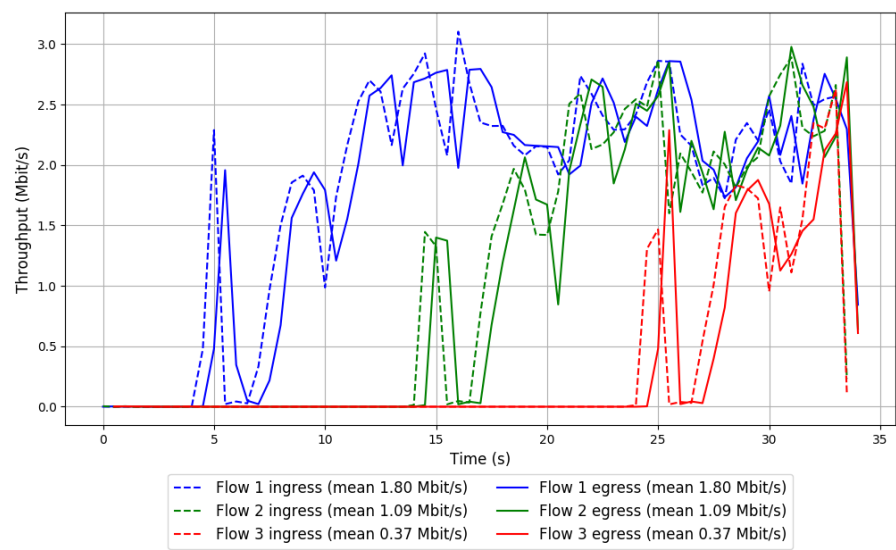
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 111.404 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

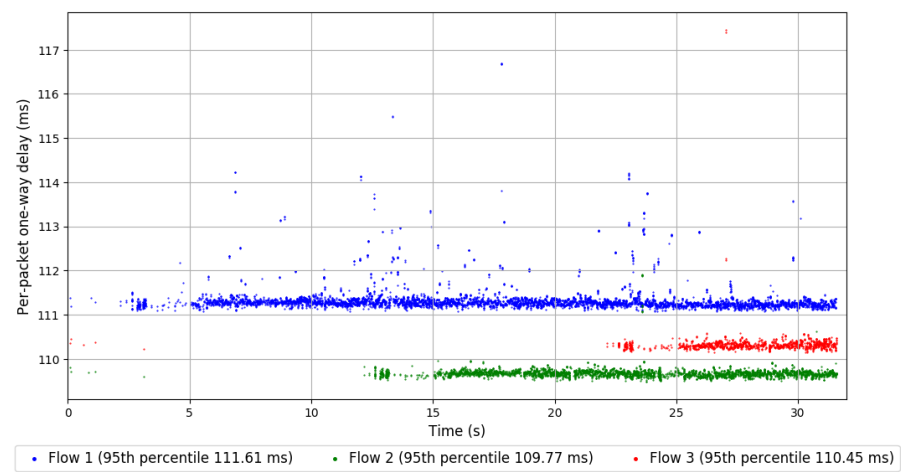
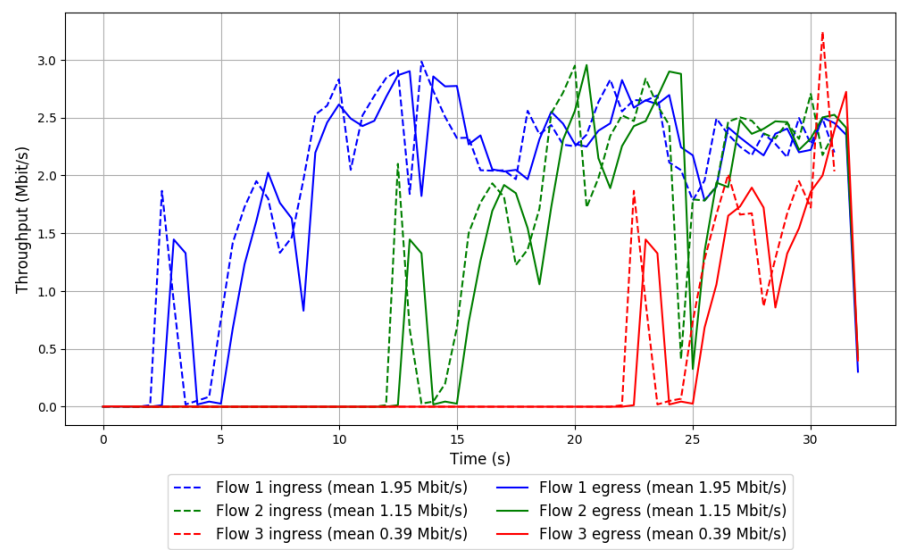


Run 4: Statistics of WebRTC media

Start at: 2018-09-25 10:39:20
End at: 2018-09-25 10:39:50
Local clock offset: -0.295 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-09-25 14:20:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 111.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 111.610 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 109.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 110.446 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-25 11:14:28

End at: 2018-09-25 11:14:58

Local clock offset: 0.529 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-09-25 14:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 110.620 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 110.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 110.764 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of WebRTC media — Data Link

