

## Pantheon Report

Generated at 2018-09-26 00:13:00 (UTC).

Data path: GCE Sydney 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:

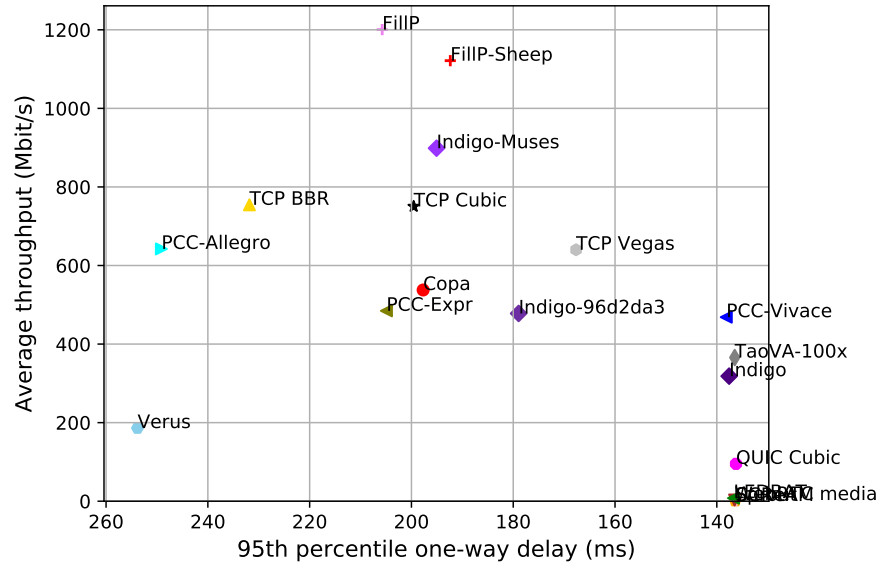
```
Linux 4.15.0-1019-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
net.ipv4.tcp_mem = 190986 254651 381972
```

### Git summary:

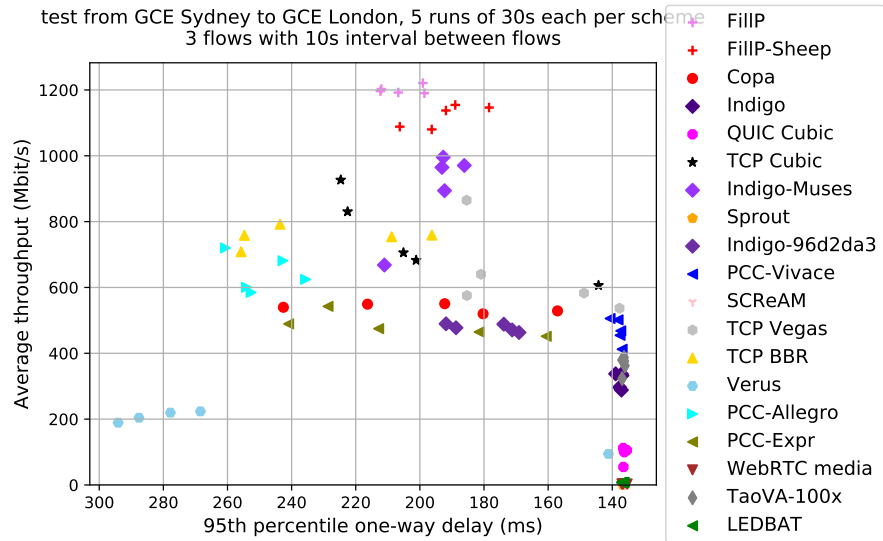
```
branch: muses @ 90192f6b64ce1a1191dcca0e9ff9ee24950674d7
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ cbfce6db5ff5740dafa1771f813cd646339e1952
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
```

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

test from GCE Sydney to GCE London, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney to GCE London, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	417.58	378.41	255.33	235.54	220.52	166.74	0.95	0.92	0.42
Copa	5	299.50	256.89	202.04	169.13	188.15	190.94	0.03	0.06	0.03
TCP Cubic	5	432.56	342.42	269.78	196.89	198.24	181.99	0.07	0.05	0.39
FillP	5	661.38	577.60	465.02	207.34	203.26	159.17	2.78	1.54	0.17
FillP-Sheep	5	629.87	535.59	406.67	195.07	176.87	140.20	1.24	0.49	0.00
Indigo	5	160.52	169.39	142.97	137.02	137.80	139.98	0.00	0.00	0.01
Indigo-96d2da3	5	263.75	232.69	187.82	179.49	176.96	184.12	0.13	0.00	0.02
LEDBAT	5	5.06	3.35	1.62	136.72	136.27	136.52	0.00	0.00	0.00
Indigo-Muses	5	488.04	470.11	307.37	193.71	191.39	182.46	0.11	0.04	0.13
PCC-Allegro	5	364.16	304.34	230.93	243.48	242.62	211.40	3.17	3.66	0.79
PCC-Expr	5	292.39	203.55	172.20	211.75	161.33	188.92	1.38	0.37	2.05
QUIC Cubic	5	47.39	53.89	37.10	135.68	136.09	136.08	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	135.49	135.84	135.96	0.00	0.00	0.00
Sprout	5	0.43	0.42	0.52	136.14	136.21	136.13	0.00	0.00	0.00
TaoVA-100x	5	190.67	190.57	144.50	136.39	136.51	136.33	0.00	0.00	0.00
TCP Vegas	5	345.67	314.48	255.56	165.65	150.39	171.35	0.02	0.00	0.01
Verus	5	138.40	38.27	70.73	225.86	175.57	183.74	2.90	2.12	0.43
PCC-Vivace	5	288.41	196.07	150.54	138.36	136.45	148.77	0.06	0.00	0.00
WebRTC media	5	1.68	1.04	0.33	136.04	136.10	136.21	0.00	0.00	0.00



Run 1: Statistics of TCP BBR

Start at: 2018-09-25 19:03:49

End at: 2018-09-25 19:04:19

Local clock offset: -0.237 ms

Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-09-25 22:08:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 758.44 Mbit/s

95th percentile per-packet one-way delay: 254.737 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 439.40 Mbit/s

95th percentile per-packet one-way delay: 244.120 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 383.33 Mbit/s

95th percentile per-packet one-way delay: 258.491 ms

Loss rate: 1.82%

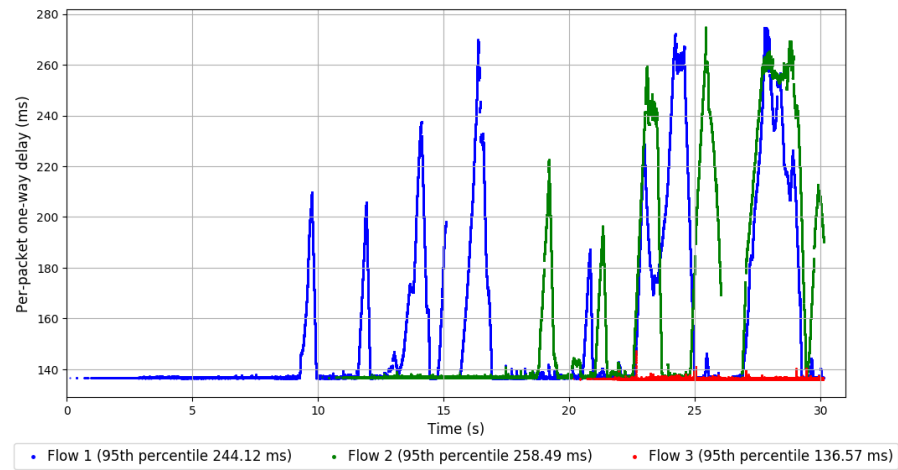
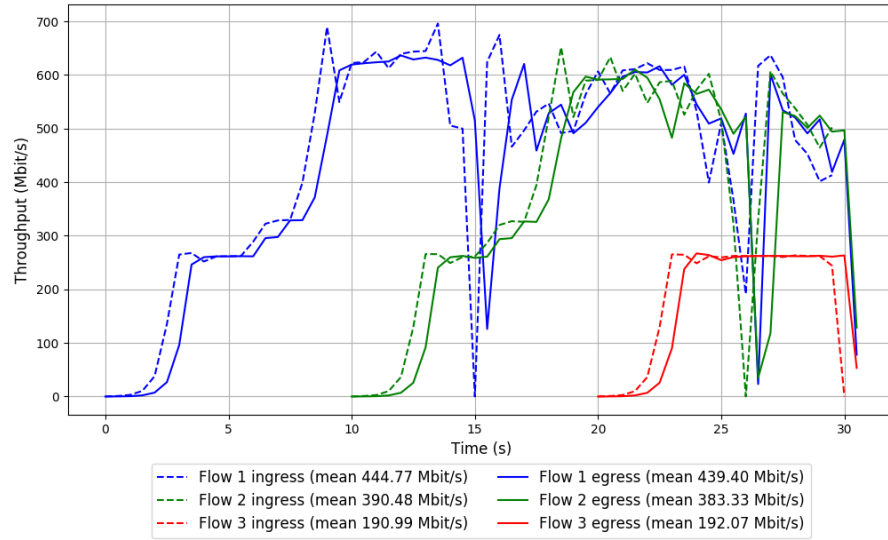
-- Flow 3:

Average throughput: 192.07 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 0.00%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-09-25 19:38:57

End at: 2018-09-25 19:39:27

Local clock offset: -0.205 ms

Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2018-09-25 22:08:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 792.10 Mbit/s

95th percentile per-packet one-way delay: 243.596 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 423.64 Mbit/s

95th percentile per-packet one-way delay: 226.458 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 422.76 Mbit/s

95th percentile per-packet one-way delay: 257.806 ms

Loss rate: 1.14%

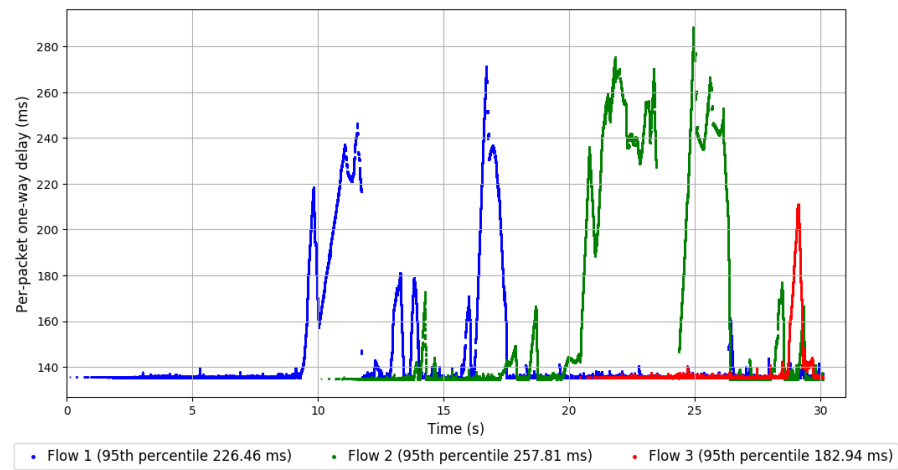
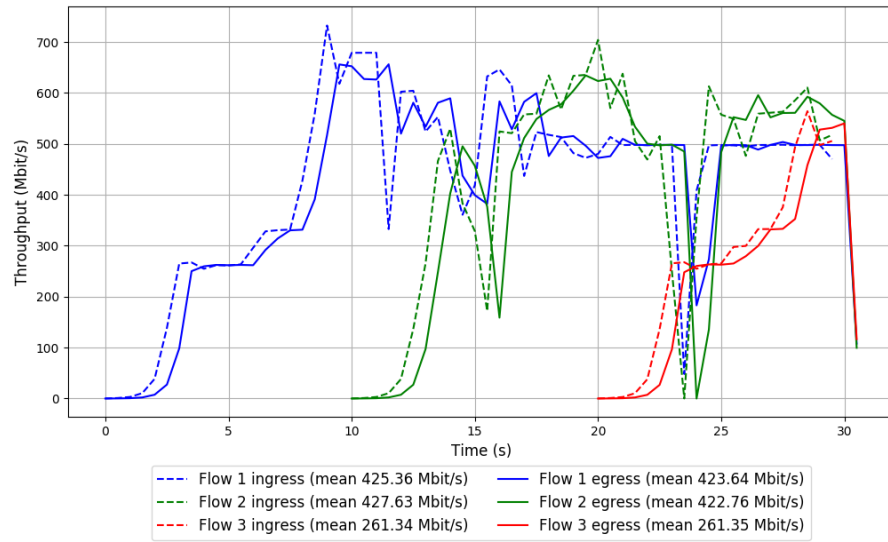
-- Flow 3:

Average throughput: 261.35 Mbit/s

95th percentile per-packet one-way delay: 182.939 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP BBR

Start at: 2018-09-25 20:14:42

End at: 2018-09-25 20:15:12

Local clock offset: -0.254 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-09-25 22:08:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 708.70 Mbit/s

95th percentile per-packet one-way delay: 255.755 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 406.07 Mbit/s

95th percentile per-packet one-way delay: 263.851 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 318.73 Mbit/s

95th percentile per-packet one-way delay: 242.065 ms

Loss rate: 1.64%

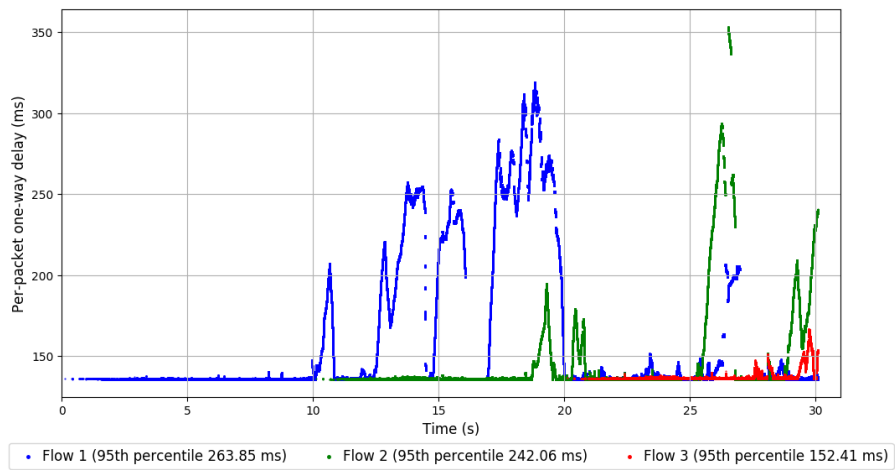
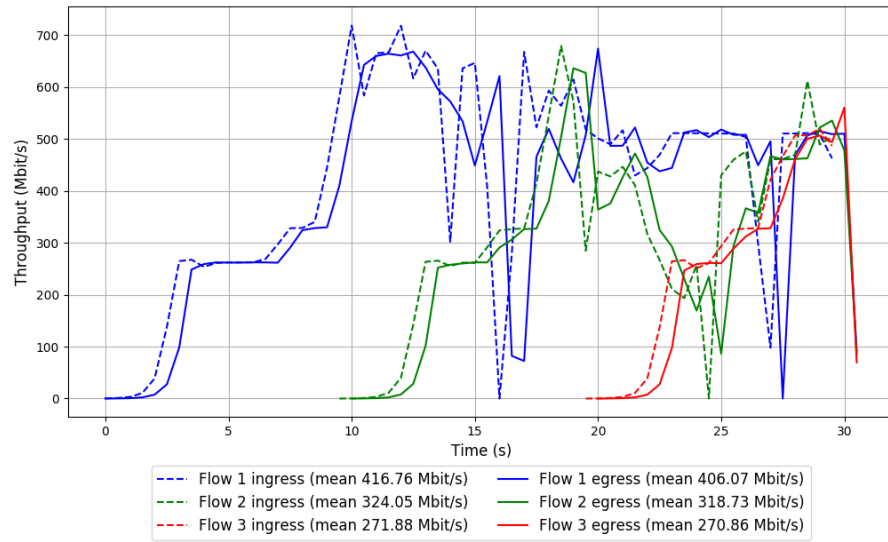
-- Flow 3:

Average throughput: 270.86 Mbit/s

95th percentile per-packet one-way delay: 152.414 ms

Loss rate: 0.38%

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



Run 4: Statistics of TCP BBR

Start at: 2018-09-25 20:50:17

End at: 2018-09-25 20:50:47

Local clock offset: -0.19 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-09-25 22:08:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 754.13 Mbit/s

95th percentile per-packet one-way delay: 208.808 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 416.39 Mbit/s

95th percentile per-packet one-way delay: 231.009 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 377.05 Mbit/s

95th percentile per-packet one-way delay: 158.079 ms

Loss rate: 0.00%

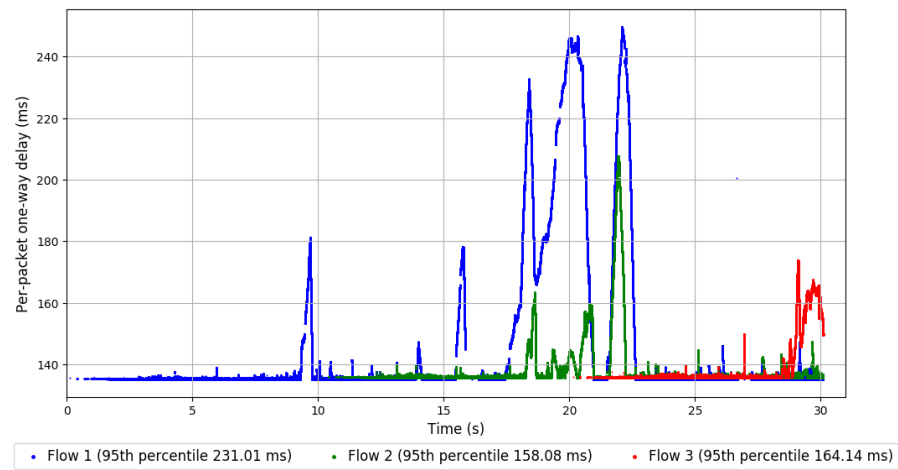
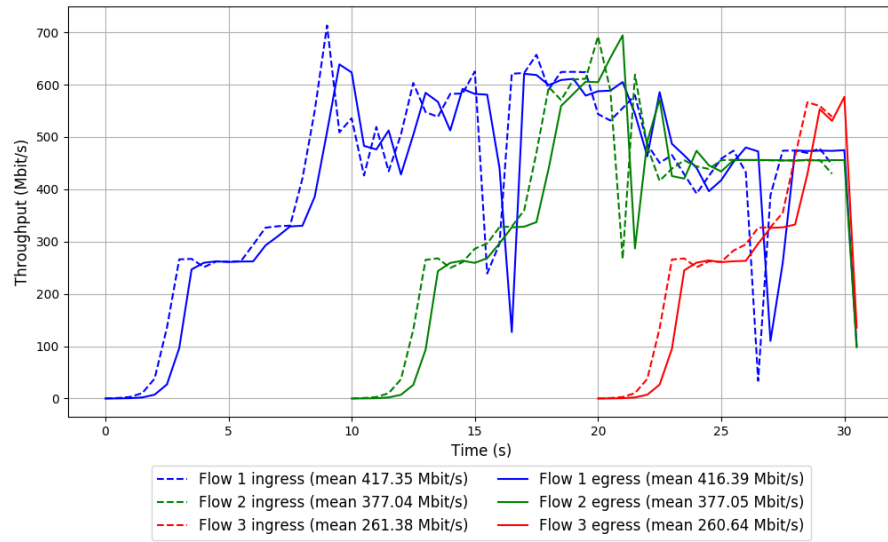
-- Flow 3:

Average throughput: 260.64 Mbit/s

95th percentile per-packet one-way delay: 164.136 ms

Loss rate: 0.27%

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





Run 5: Statistics of TCP BBR

Start at: 2018-09-25 21:25:43

End at: 2018-09-25 21:26:13

Local clock offset: -0.268 ms

Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2018-09-25 22:08:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 759.12 Mbit/s

95th percentile per-packet one-way delay: 196.250 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 402.39 Mbit/s

95th percentile per-packet one-way delay: 212.285 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 390.19 Mbit/s

95th percentile per-packet one-way delay: 186.152 ms

Loss rate: 0.00%

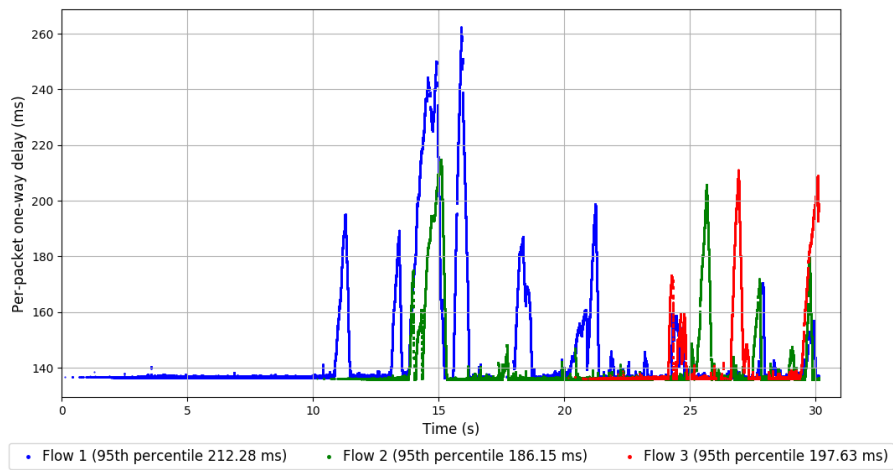
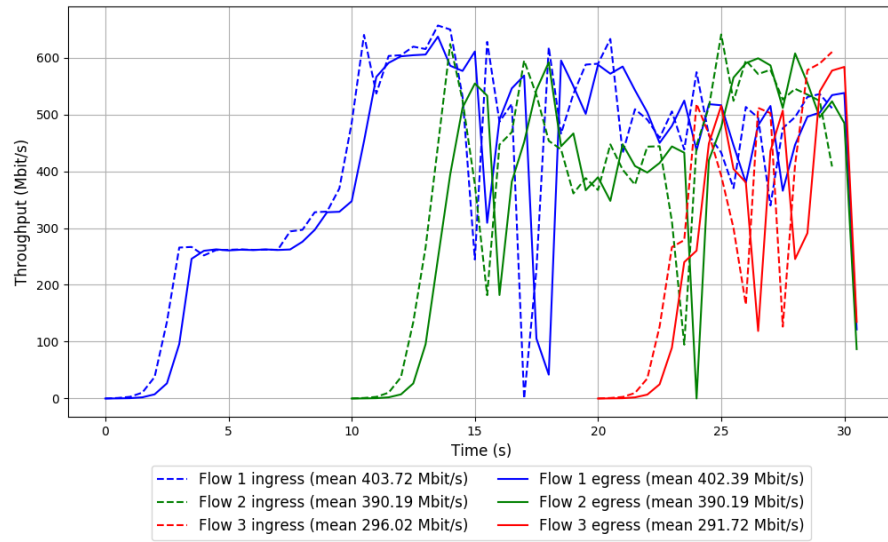
-- Flow 3:

Average throughput: 291.72 Mbit/s

95th percentile per-packet one-way delay: 197.634 ms

Loss rate: 1.45%

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



Run 1: Statistics of Copa

Start at: 2018-09-25 18:54:31

End at: 2018-09-25 18:55:01

Local clock offset: -0.422 ms

Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2018-09-25 22:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 528.78 Mbit/s

95th percentile per-packet one-way delay: 157.071 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 275.12 Mbit/s

95th percentile per-packet one-way delay: 156.561 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 273.15 Mbit/s

95th percentile per-packet one-way delay: 161.855 ms

Loss rate: 0.06%

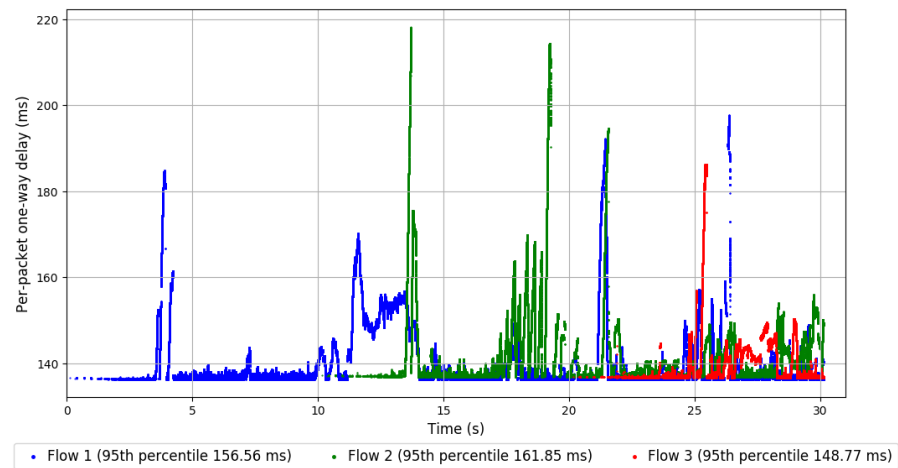
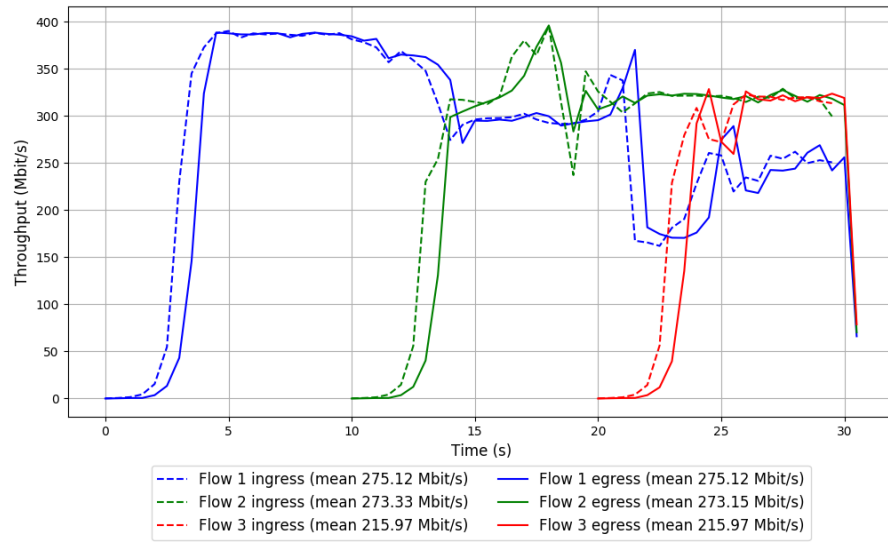
-- Flow 3:

Average throughput: 215.97 Mbit/s

95th percentile per-packet one-way delay: 148.770 ms

Loss rate: 0.00%

## Run 1: Report of Copa — Data Link

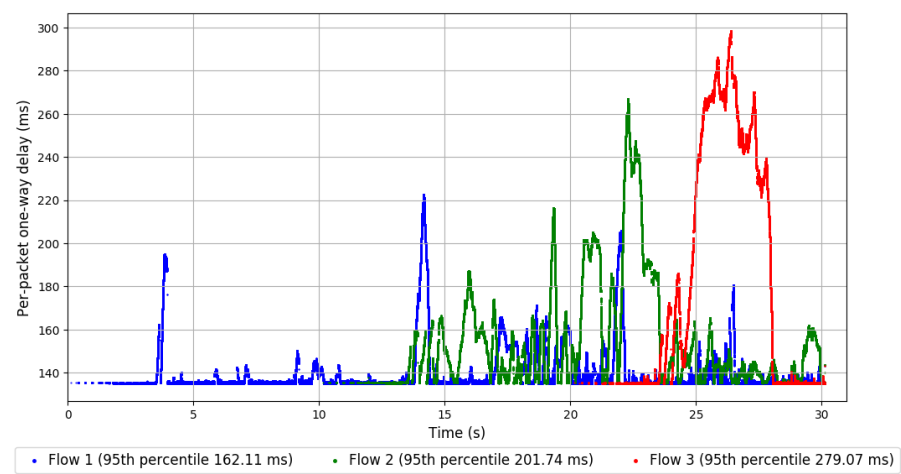
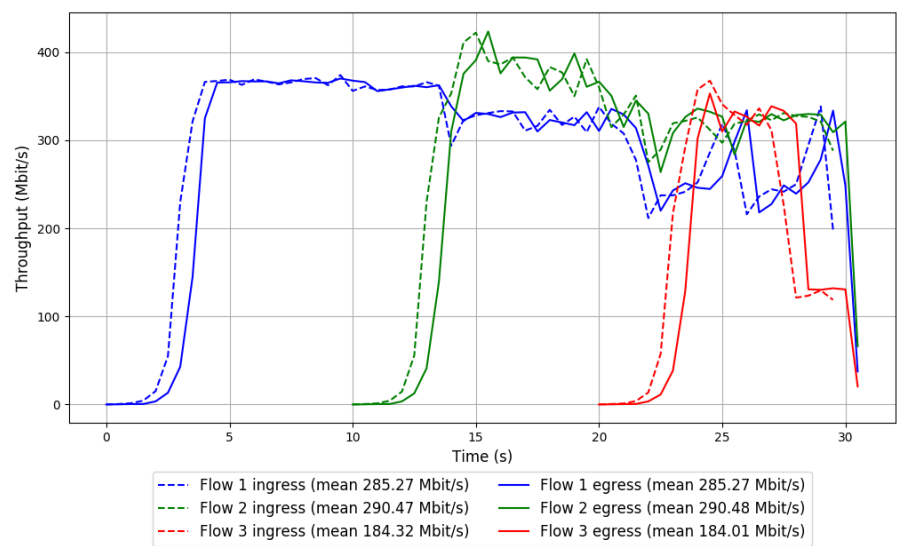


Run 2: Statistics of Copa

Start at: 2018-09-25 19:29:45  
End at: 2018-09-25 19:30:15  
Local clock offset: 0.087 ms  
Remote clock offset: -0.362 ms

# Below is generated by plot.py at 2018-09-25 22:12:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 539.74 Mbit/s  
95th percentile per-packet one-way delay: 242.574 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 285.27 Mbit/s  
95th percentile per-packet one-way delay: 162.106 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 290.48 Mbit/s  
95th percentile per-packet one-way delay: 201.738 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 184.01 Mbit/s  
95th percentile per-packet one-way delay: 279.071 ms  
Loss rate: 0.17%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-09-25 20:05:16

End at: 2018-09-25 20:05:46

Local clock offset: -0.408 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-09-25 22:12:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 550.66 Mbit/s

95th percentile per-packet one-way delay: 192.257 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 316.45 Mbit/s

95th percentile per-packet one-way delay: 182.772 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 261.29 Mbit/s

95th percentile per-packet one-way delay: 162.051 ms

Loss rate: 0.00%

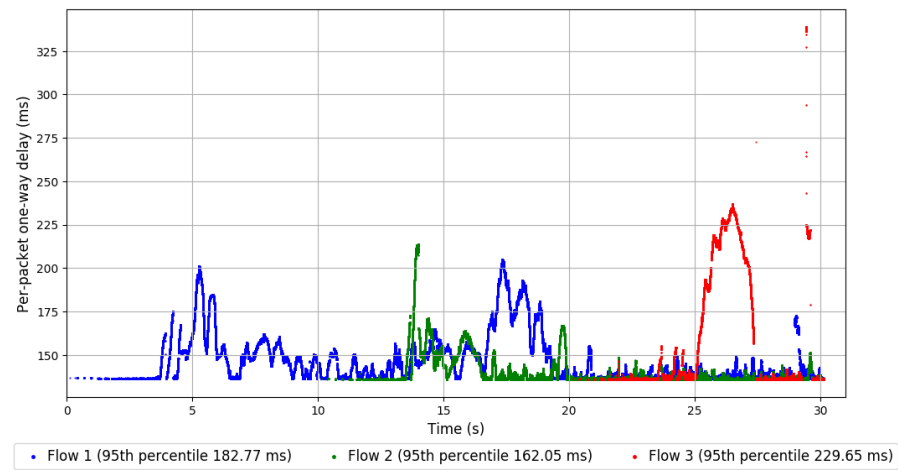
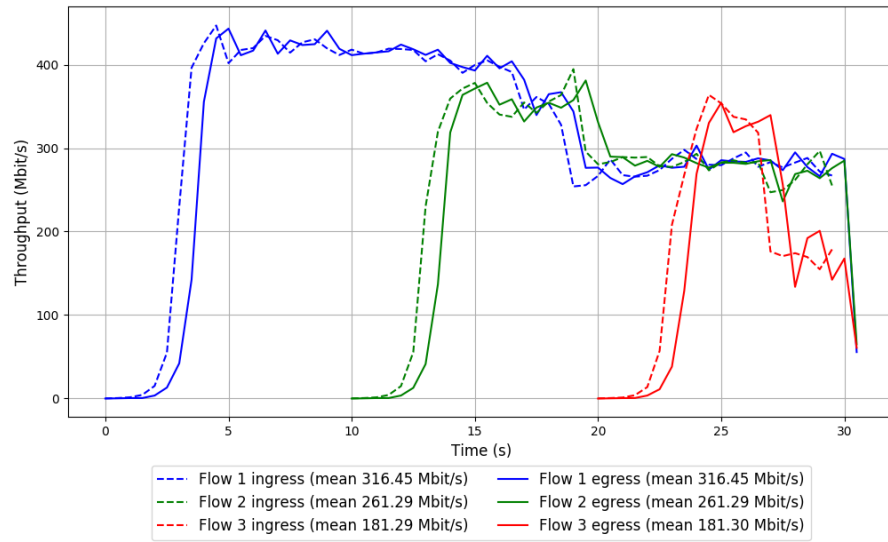
-- Flow 3:

Average throughput: 181.30 Mbit/s

95th percentile per-packet one-way delay: 229.654 ms

Loss rate: 0.00%

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2018-09-25 20:40:54

End at: 2018-09-25 20:41:24

Local clock offset: -0.135 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-09-25 22:25:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 549.19 Mbit/s

95th percentile per-packet one-way delay: 216.331 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 318.83 Mbit/s

95th percentile per-packet one-way delay: 159.538 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 235.50 Mbit/s

95th percentile per-packet one-way delay: 236.170 ms

Loss rate: 0.26%

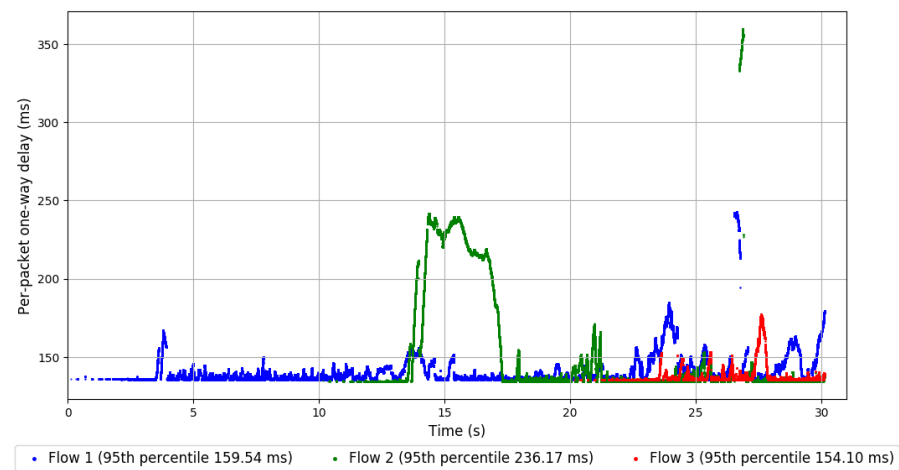
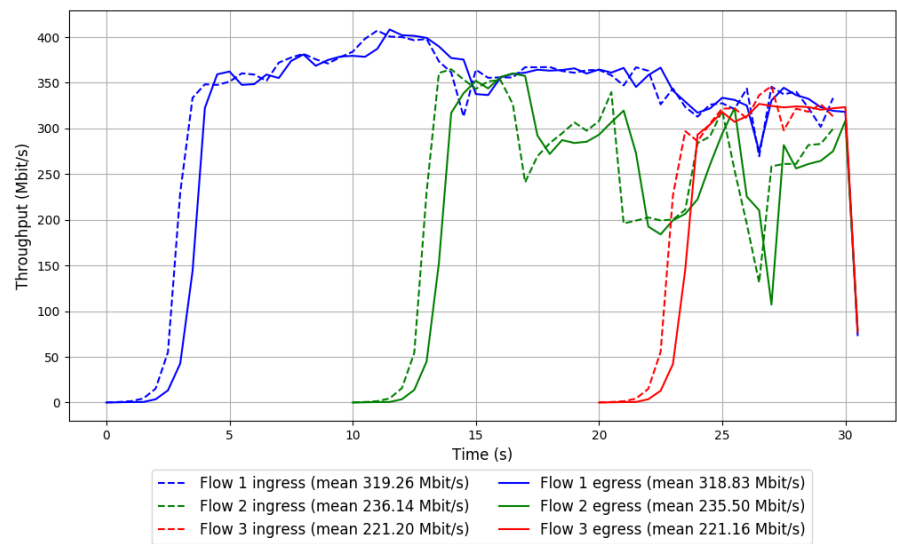
-- Flow 3:

Average throughput: 221.16 Mbit/s

95th percentile per-packet one-way delay: 154.097 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

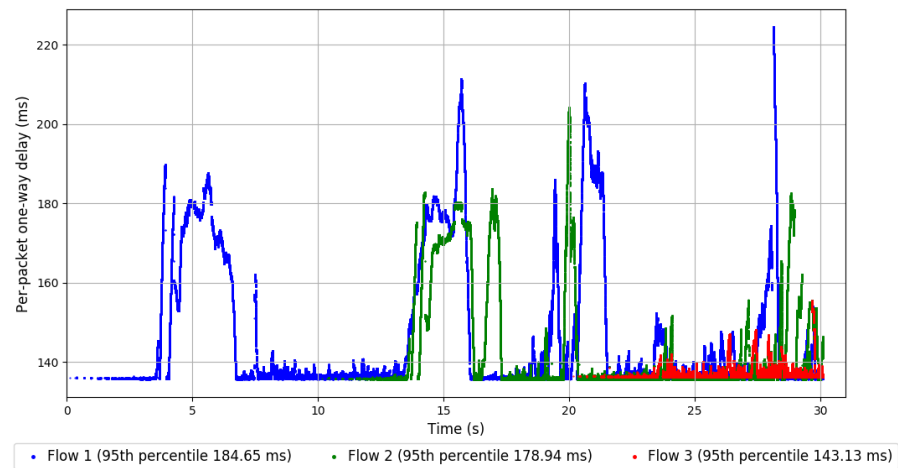
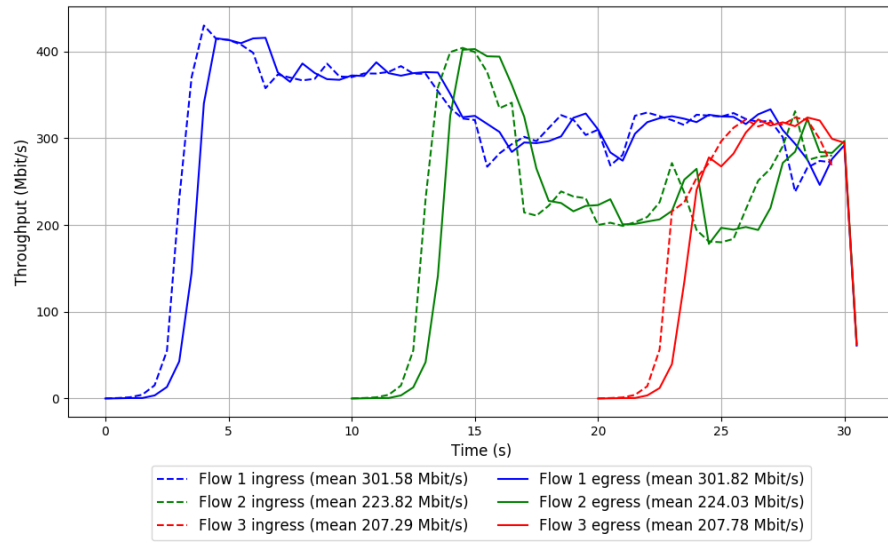


Run 5: Statistics of Copa

Start at: 2018-09-25 21:16:20  
End at: 2018-09-25 21:16:50  
Local clock offset: -0.246 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-09-25 22:25:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 519.92 Mbit/s  
95th percentile per-packet one-way delay: 180.279 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 301.82 Mbit/s  
95th percentile per-packet one-way delay: 184.650 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 224.03 Mbit/s  
95th percentile per-packet one-way delay: 178.940 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 207.78 Mbit/s  
95th percentile per-packet one-way delay: 143.133 ms  
Loss rate: 0.00%

## Run 5: Report of Copa — Data Link

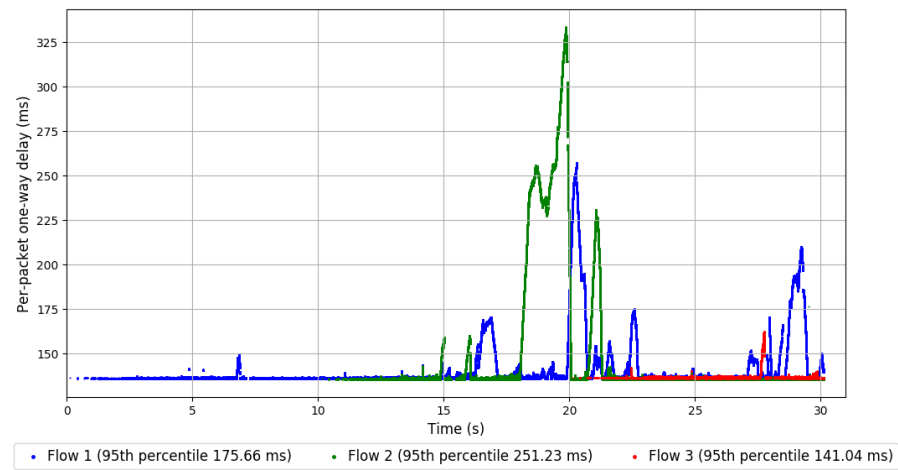
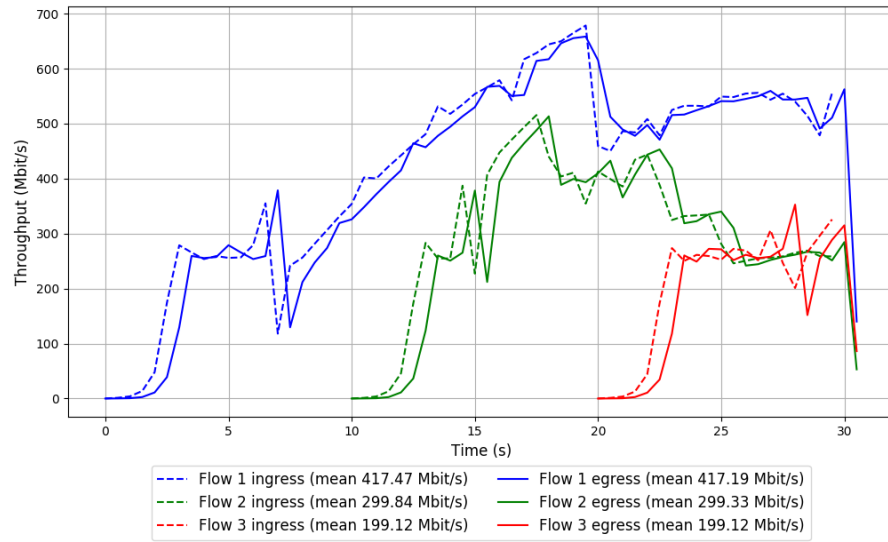


Run 1: Statistics of TCP Cubic

Start at: 2018-09-25 19:11:43  
End at: 2018-09-25 19:12:13  
Local clock offset: -0.161 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-09-25 22:25:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 682.70 Mbit/s  
95th percentile per-packet one-way delay: 201.160 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 417.19 Mbit/s  
95th percentile per-packet one-way delay: 175.660 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 299.33 Mbit/s  
95th percentile per-packet one-way delay: 251.232 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 199.12 Mbit/s  
95th percentile per-packet one-way delay: 141.039 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Cubic — Data Link

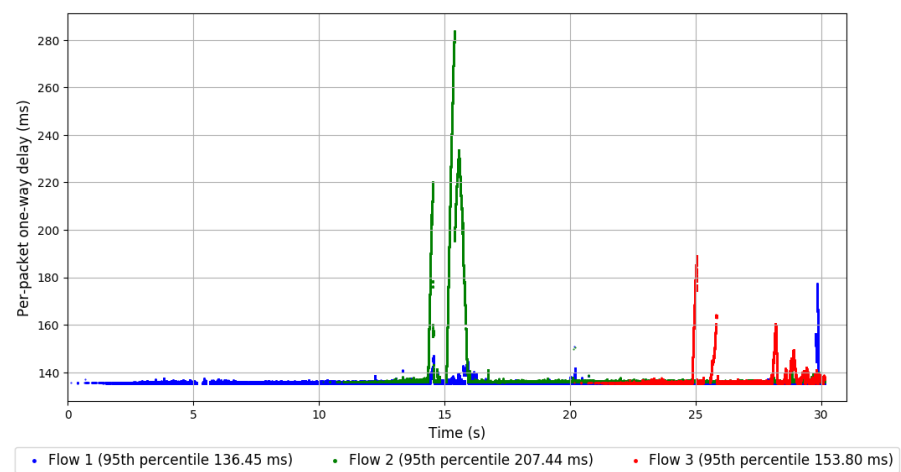
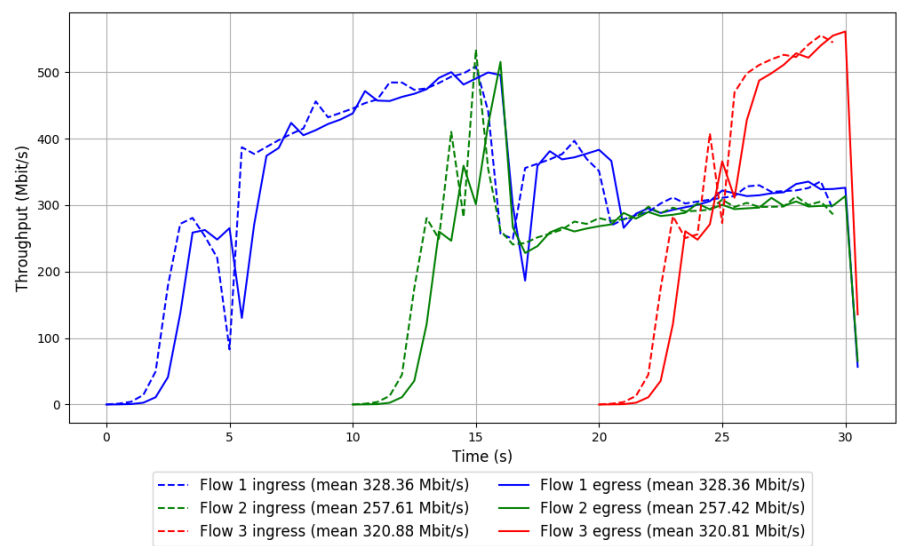


Run 2: Statistics of TCP Cubic

Start at: 2018-09-25 19:46:55  
End at: 2018-09-25 19:47:25  
Local clock offset: -0.176 ms  
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2018-09-25 22:25:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 606.39 Mbit/s  
95th percentile per-packet one-way delay: 144.287 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 328.36 Mbit/s  
95th percentile per-packet one-way delay: 136.447 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 257.42 Mbit/s  
95th percentile per-packet one-way delay: 207.438 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 320.81 Mbit/s  
95th percentile per-packet one-way delay: 153.804 ms  
Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2018-09-25 20:22:37

End at: 2018-09-25 20:23:07

Local clock offset: -0.181 ms

Remote clock offset: 0.379 ms

# Below is generated by plot.py at 2018-09-25 22:25:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 926.64 Mbit/s

95th percentile per-packet one-way delay: 224.689 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 547.83 Mbit/s

95th percentile per-packet one-way delay: 221.282 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 417.54 Mbit/s

95th percentile per-packet one-way delay: 228.416 ms

Loss rate: 0.02%

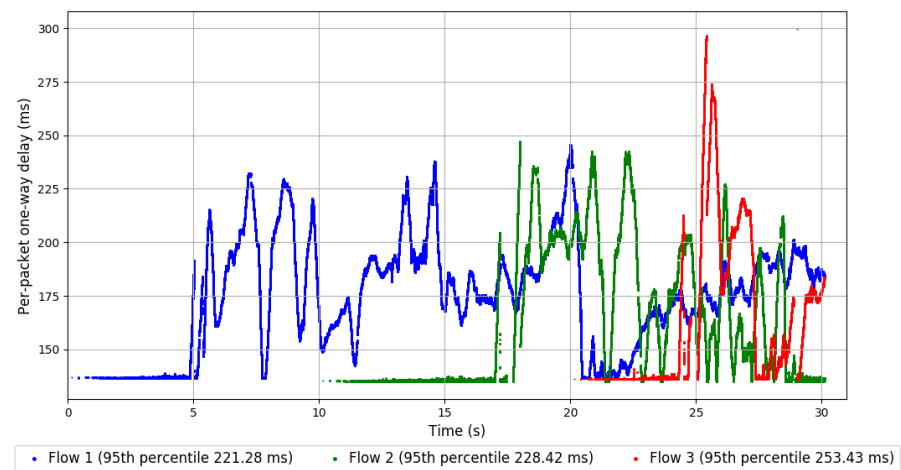
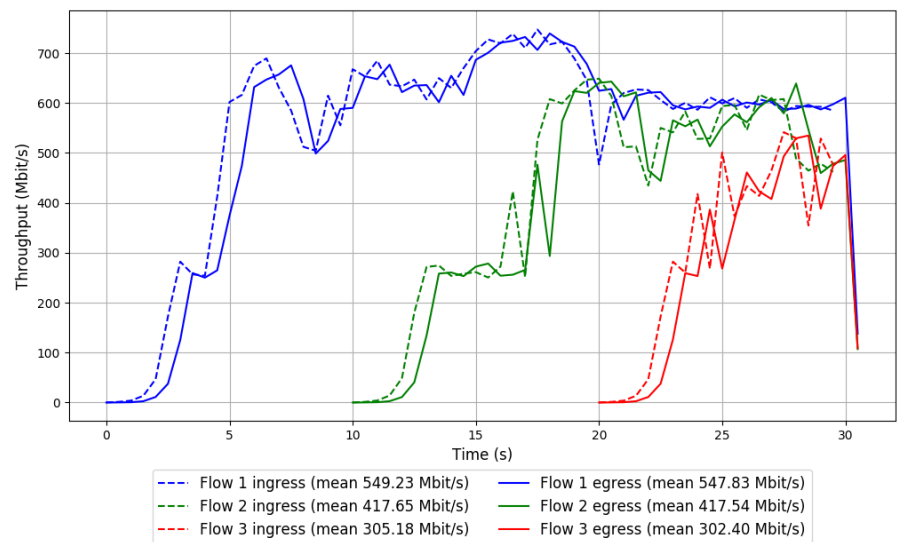
-- Flow 3:

Average throughput: 302.40 Mbit/s

95th percentile per-packet one-way delay: 253.427 ms

Loss rate: 0.92%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-09-25 20:58:24

End at: 2018-09-25 20:58:54

Local clock offset: -0.34 ms

Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-09-25 22:25:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 705.65 Mbit/s

95th percentile per-packet one-way delay: 205.121 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 377.43 Mbit/s

95th percentile per-packet one-way delay: 222.834 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 346.41 Mbit/s

95th percentile per-packet one-way delay: 146.253 ms

Loss rate: 0.00%

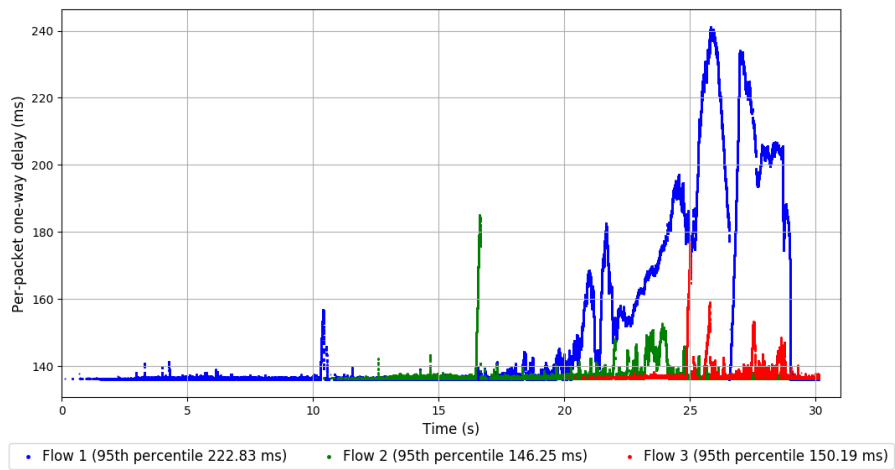
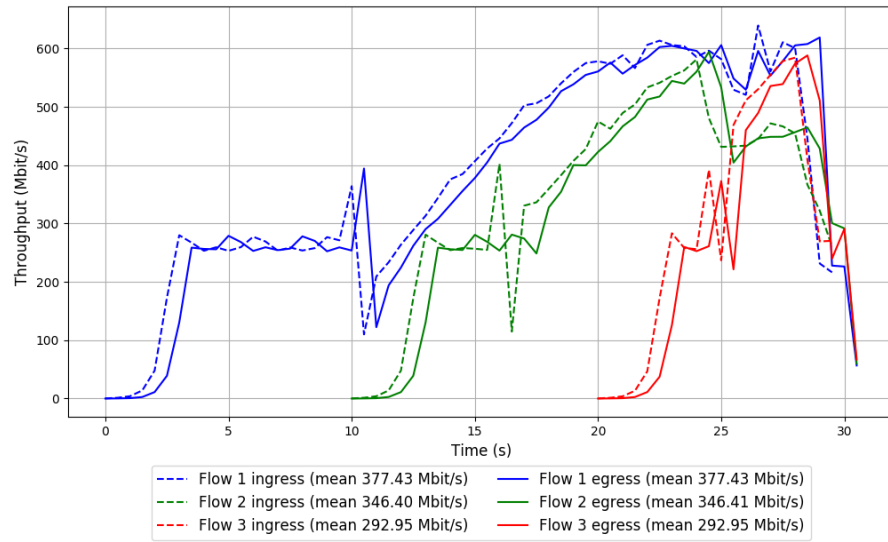
-- Flow 3:

Average throughput: 292.95 Mbit/s

95th percentile per-packet one-way delay: 150.193 ms

Loss rate: 0.00%

# Run 4: Report of TCP Cubic — Data Link

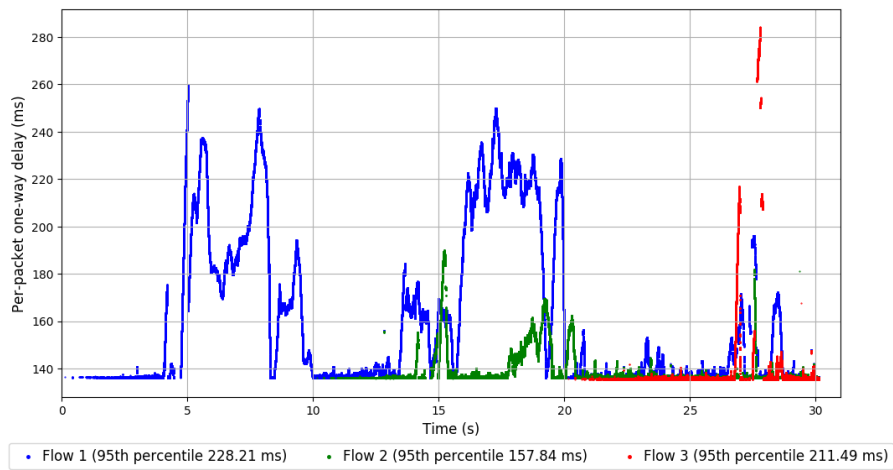
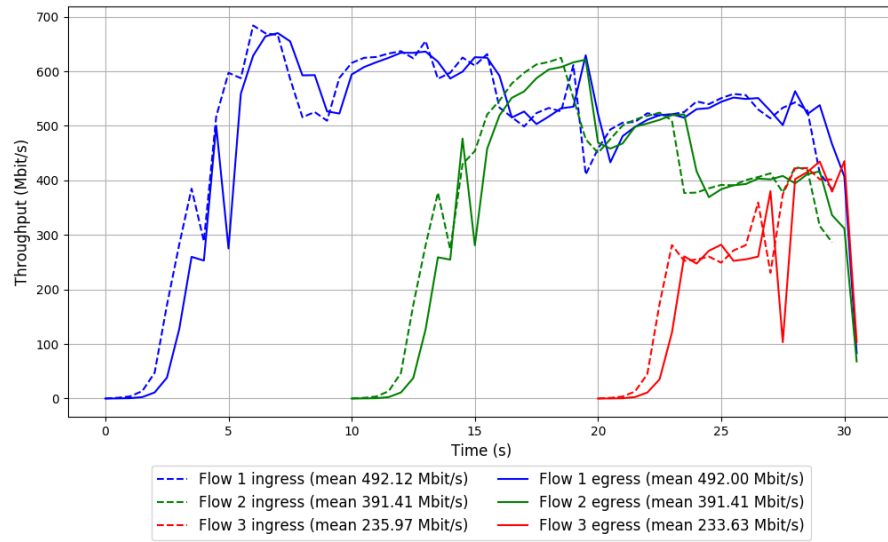


Run 5: Statistics of TCP Cubic

Start at: 2018-09-25 21:33:48  
End at: 2018-09-25 21:34:18  
Local clock offset: -0.368 ms  
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2018-09-25 22:27:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 830.34 Mbit/s  
95th percentile per-packet one-way delay: 222.547 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 492.00 Mbit/s  
95th percentile per-packet one-way delay: 228.213 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 391.41 Mbit/s  
95th percentile per-packet one-way delay: 157.840 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 233.63 Mbit/s  
95th percentile per-packet one-way delay: 211.490 ms  
Loss rate: 0.99%

# Run 5: Report of TCP Cubic — Data Link

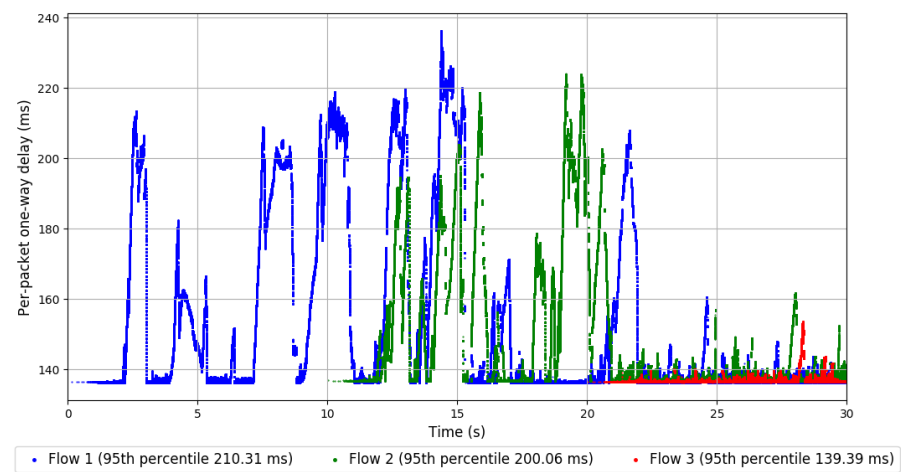
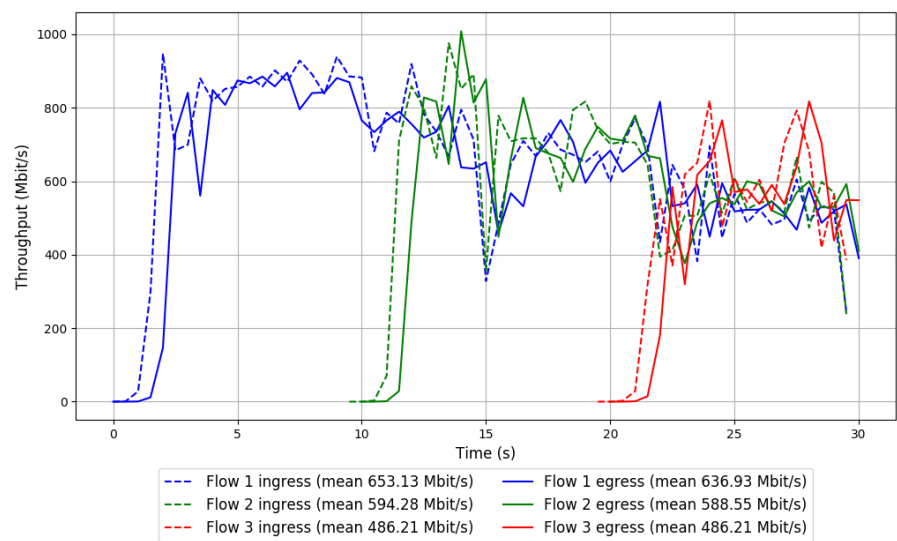


Run 1: Statistics of FillP

Start at: 2018-09-25 19:07:20  
End at: 2018-09-25 19:07:50  
Local clock offset: -0.223 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-09-25 22:37:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1192.32 Mbit/s  
95th percentile per-packet one-way delay: 206.731 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 636.93 Mbit/s  
95th percentile per-packet one-way delay: 210.306 ms  
Loss rate: 2.48%  
-- Flow 2:  
Average throughput: 588.55 Mbit/s  
95th percentile per-packet one-way delay: 200.059 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 486.21 Mbit/s  
95th percentile per-packet one-way delay: 139.394 ms  
Loss rate: 0.00%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2018-09-25 19:42:34

End at: 2018-09-25 19:43:04

Local clock offset: -0.378 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-09-25 22:44:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1190.23 Mbit/s

95th percentile per-packet one-way delay: 198.586 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 643.19 Mbit/s

95th percentile per-packet one-way delay: 199.724 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 604.11 Mbit/s

95th percentile per-packet one-way delay: 195.139 ms

Loss rate: 1.38%

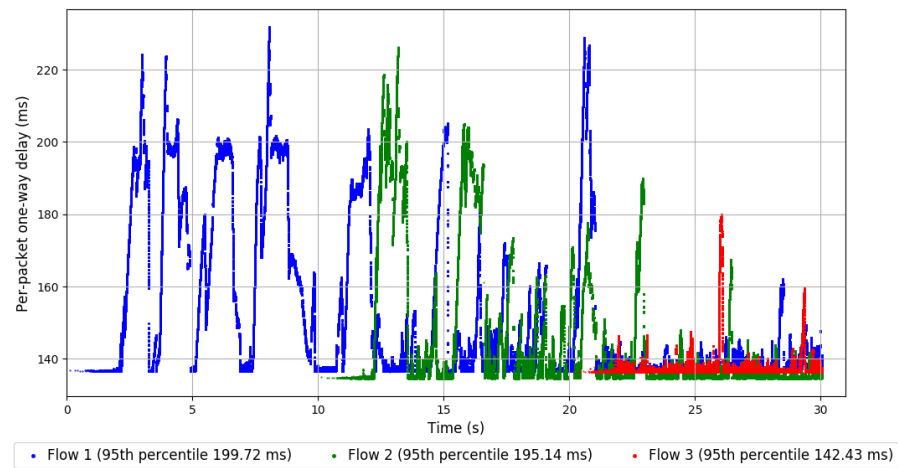
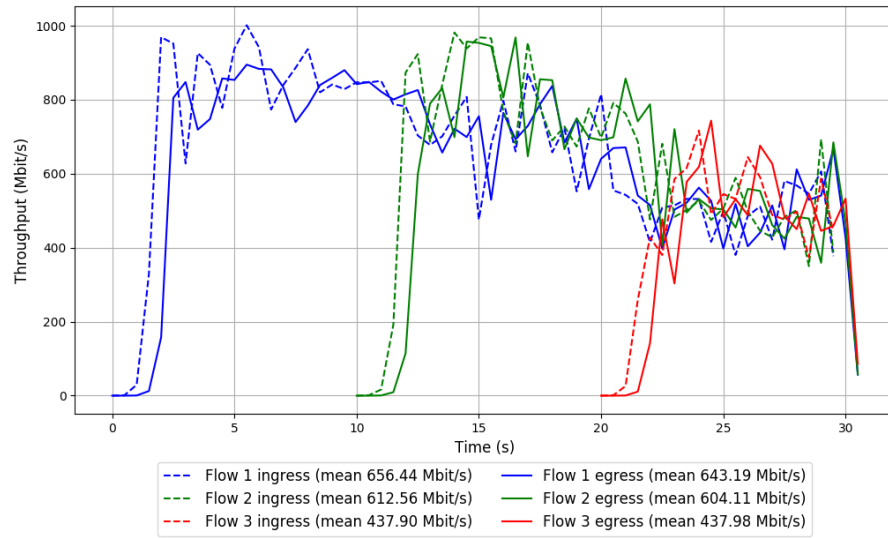
-- Flow 3:

Average throughput: 437.98 Mbit/s

95th percentile per-packet one-way delay: 142.430 ms

Loss rate: 0.00%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-09-25 20:18:14

End at: 2018-09-25 20:18:44

Local clock offset: -0.309 ms

Remote clock offset: 0.408 ms

# Below is generated by plot.py at 2018-09-25 22:47:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1220.94 Mbit/s

95th percentile per-packet one-way delay: 199.062 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 697.32 Mbit/s

95th percentile per-packet one-way delay: 200.172 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 551.21 Mbit/s

95th percentile per-packet one-way delay: 202.239 ms

Loss rate: 1.07%

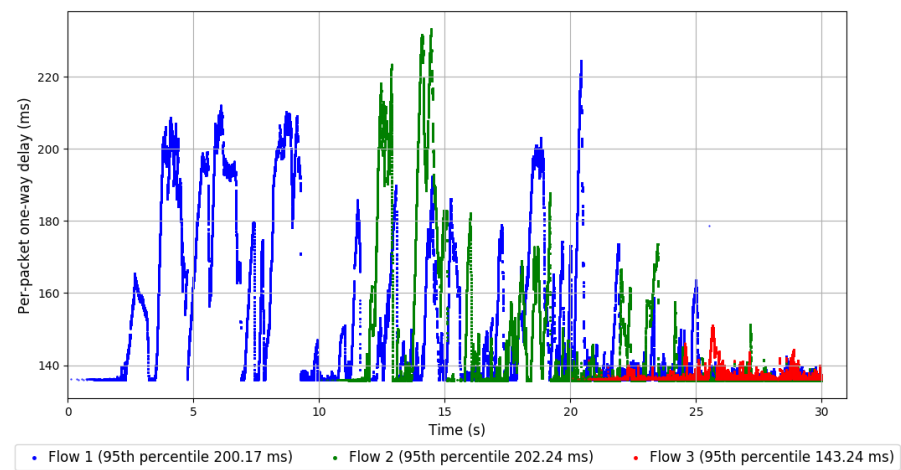
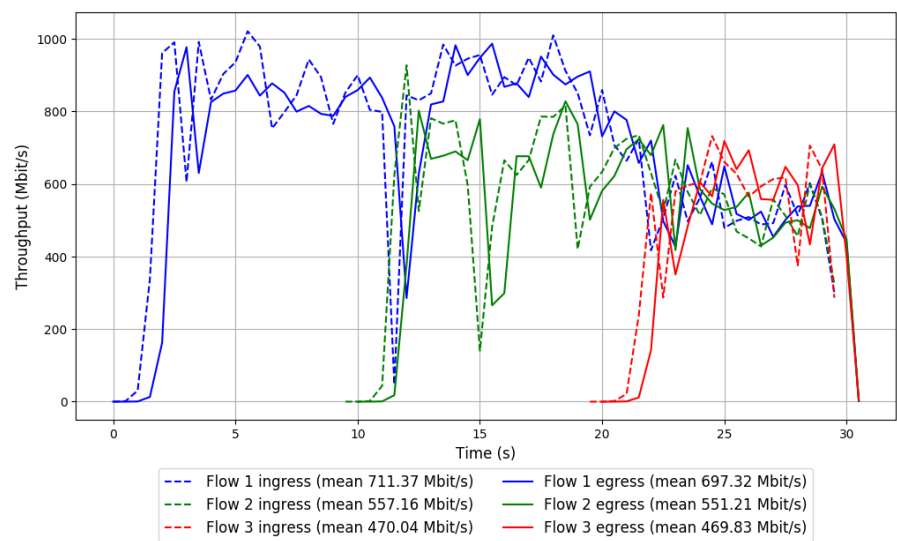
-- Flow 3:

Average throughput: 469.83 Mbit/s

95th percentile per-packet one-way delay: 143.235 ms

Loss rate: 0.05%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-09-25 20:53:52

End at: 2018-09-25 20:54:22

Local clock offset: -0.07 ms

Remote clock offset: 0.39 ms

# Below is generated by plot.py at 2018-09-25 22:51:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1202.77 Mbit/s

95th percentile per-packet one-way delay: 212.037 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 681.49 Mbit/s

95th percentile per-packet one-way delay: 210.869 ms

Loss rate: 3.27%

-- Flow 2:

Average throughput: 560.70 Mbit/s

95th percentile per-packet one-way delay: 216.721 ms

Loss rate: 2.29%

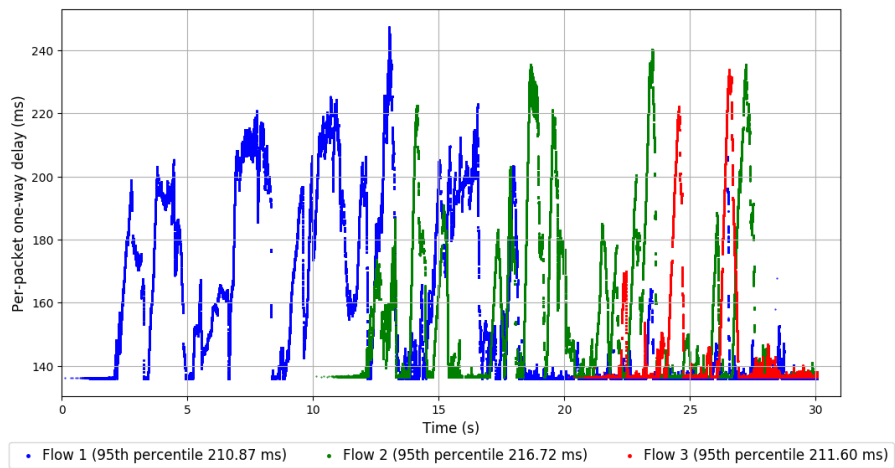
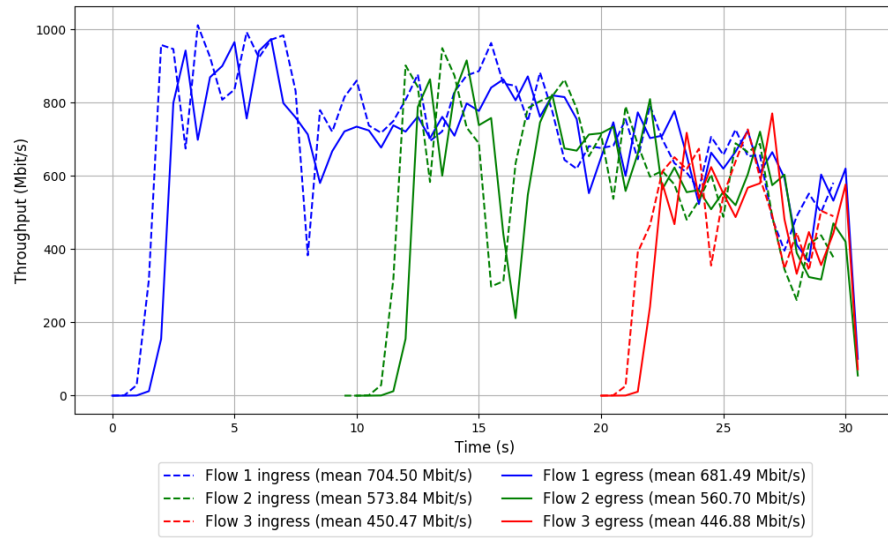
-- Flow 3:

Average throughput: 446.88 Mbit/s

95th percentile per-packet one-way delay: 211.601 ms

Loss rate: 0.81%

#### Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-09-25 21:29:20

End at: 2018-09-25 21:29:50

Local clock offset: -0.295 ms

Remote clock offset: 0.321 ms

# Below is generated by plot.py at 2018-09-25 22:51:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1196.47 Mbit/s

95th percentile per-packet one-way delay: 212.306 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 647.96 Mbit/s

95th percentile per-packet one-way delay: 215.653 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 583.42 Mbit/s

95th percentile per-packet one-way delay: 202.123 ms

Loss rate: 2.00%

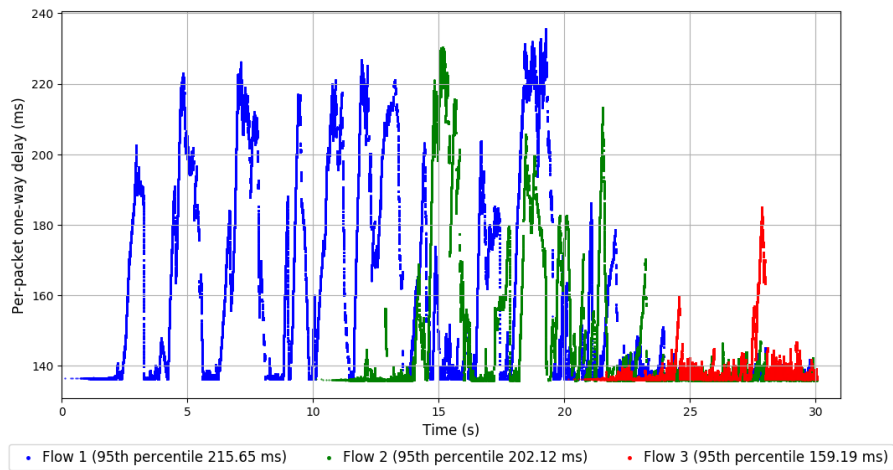
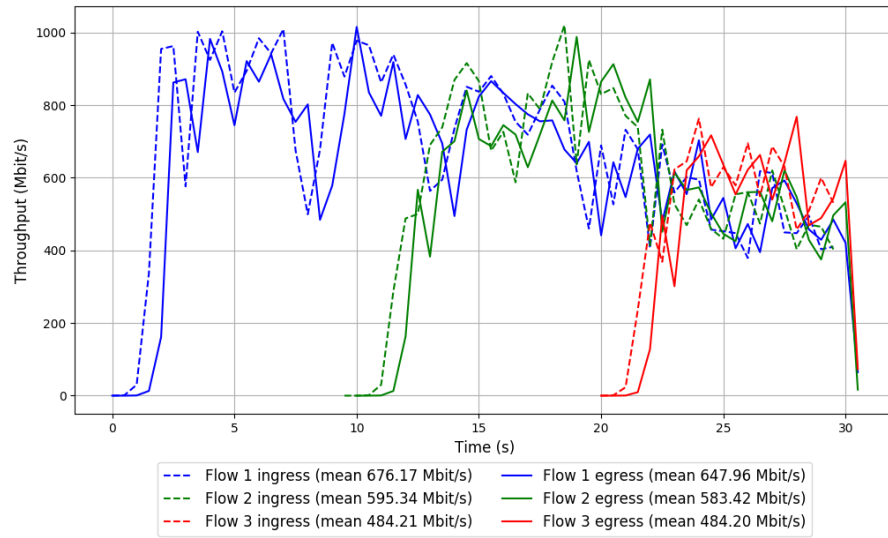
-- Flow 3:

Average throughput: 484.20 Mbit/s

95th percentile per-packet one-way delay: 159.189 ms

Loss rate: 0.00%

## Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2018-09-25 19:13:43

End at: 2018-09-25 19:14:13

Local clock offset: -0.266 ms

Remote clock offset: 0.387 ms

# Below is generated by plot.py at 2018-09-25 22:51:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1088.46 Mbit/s

95th percentile per-packet one-way delay: 206.268 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 594.74 Mbit/s

95th percentile per-packet one-way delay: 211.297 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 536.75 Mbit/s

95th percentile per-packet one-way delay: 179.995 ms

Loss rate: 0.11%

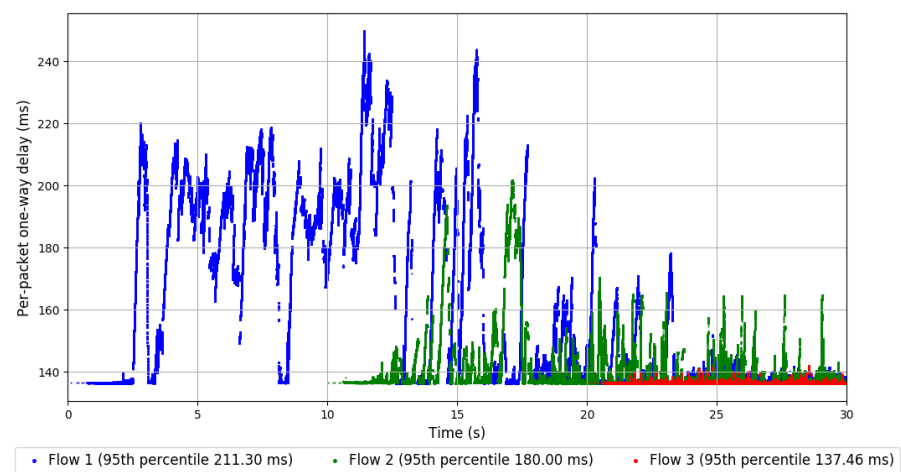
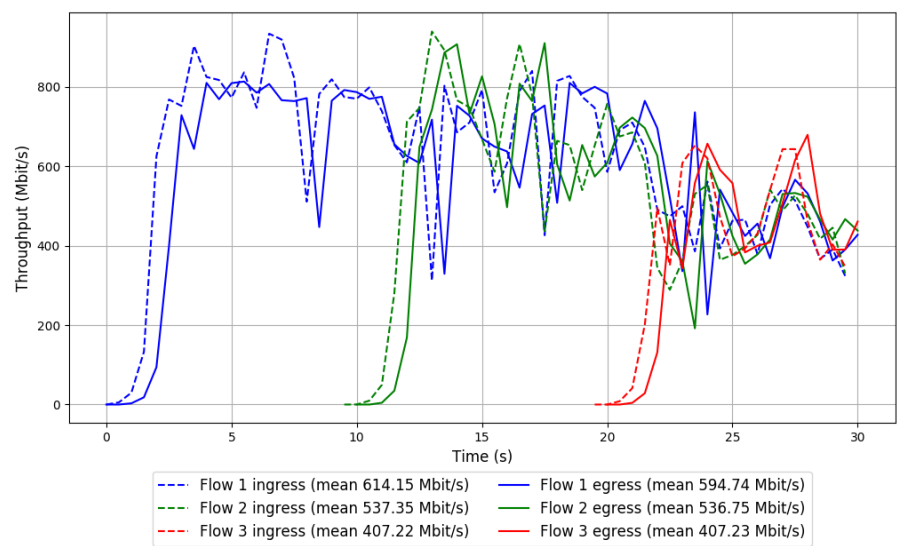
-- Flow 3:

Average throughput: 407.23 Mbit/s

95th percentile per-packet one-way delay: 137.462 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-09-25 19:48:51

End at: 2018-09-25 19:49:21

Local clock offset: -0.114 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-09-25 22:51:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1137.54 Mbit/s

95th percentile per-packet one-way delay: 191.875 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 646.11 Mbit/s

95th percentile per-packet one-way delay: 188.761 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 544.96 Mbit/s

95th percentile per-packet one-way delay: 202.885 ms

Loss rate: 1.37%

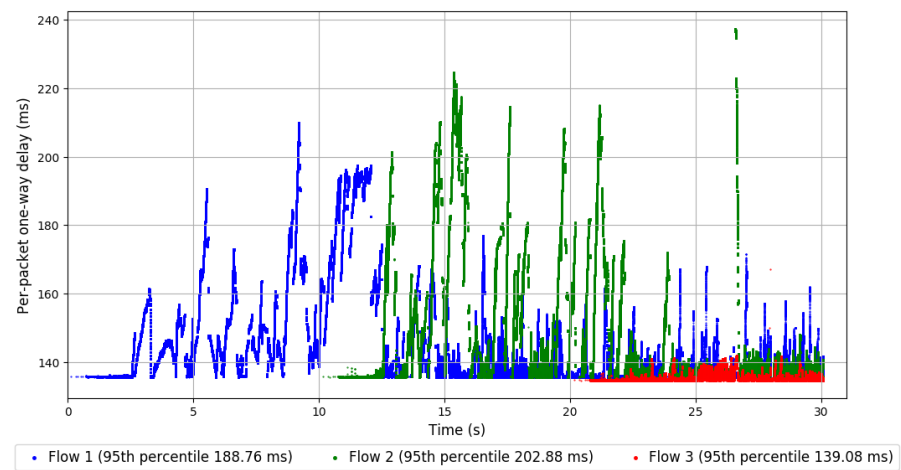
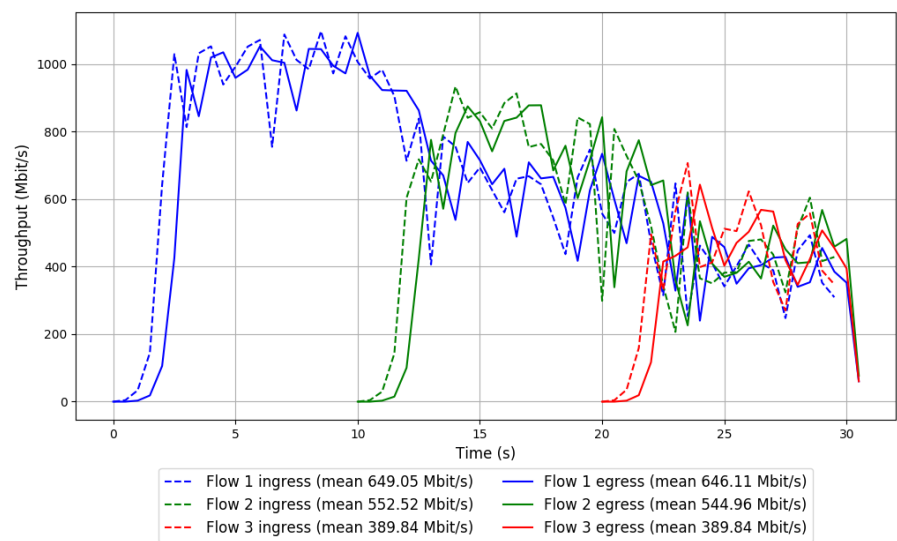
-- Flow 3:

Average throughput: 389.84 Mbit/s

95th percentile per-packet one-way delay: 139.076 ms

Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

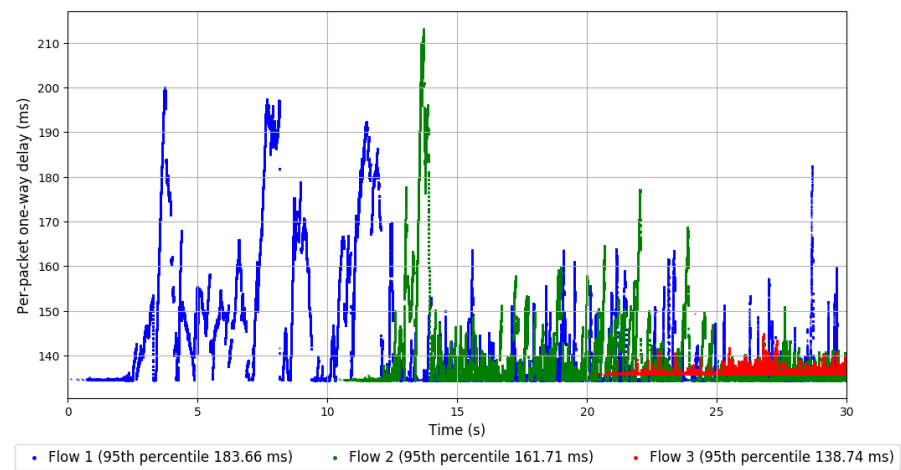
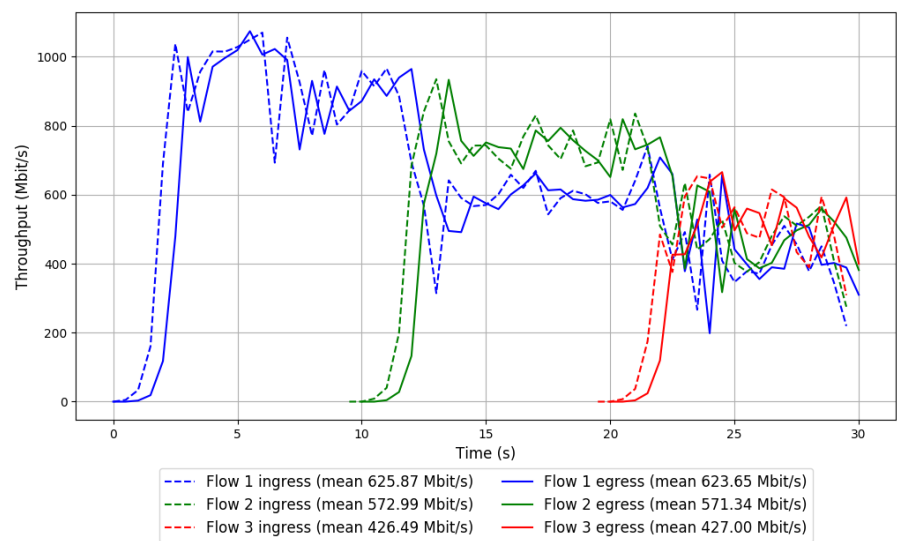


Run 3: Statistics of FillP-Sheep

Start at: 2018-09-25 20:24:52  
End at: 2018-09-25 20:25:22  
Local clock offset: -0.298 ms  
Remote clock offset: -0.334 ms

# Below is generated by plot.py at 2018-09-25 22:53:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1146.54 Mbit/s  
95th percentile per-packet one-way delay: 178.427 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 623.65 Mbit/s  
95th percentile per-packet one-way delay: 183.659 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 571.34 Mbit/s  
95th percentile per-packet one-way delay: 161.714 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 427.00 Mbit/s  
95th percentile per-packet one-way delay: 138.744 ms  
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-09-25 21:00:26

End at: 2018-09-25 21:00:56

Local clock offset: -0.123 ms

Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2018-09-25 23:04:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1080.09 Mbit/s

95th percentile per-packet one-way delay: 196.301 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 607.86 Mbit/s

95th percentile per-packet one-way delay: 201.127 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 517.89 Mbit/s

95th percentile per-packet one-way delay: 151.072 ms

Loss rate: 0.00%

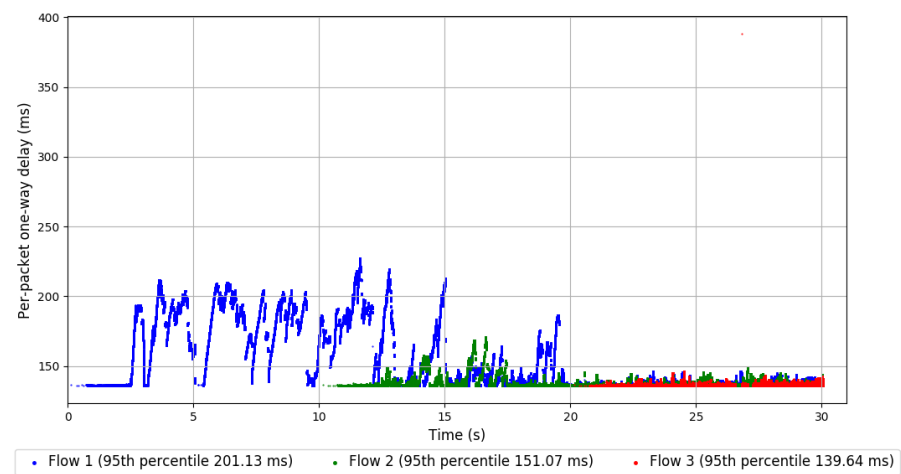
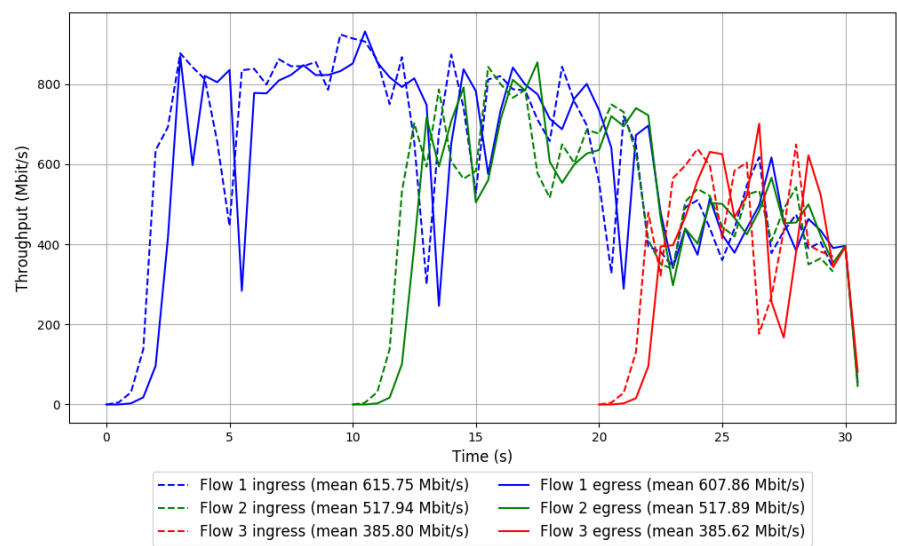
-- Flow 3:

Average throughput: 385.62 Mbit/s

95th percentile per-packet one-way delay: 139.642 ms

Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link



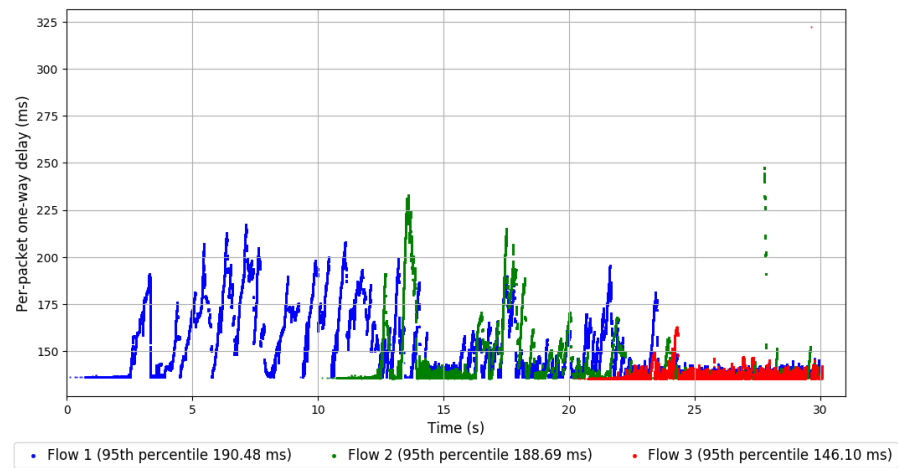
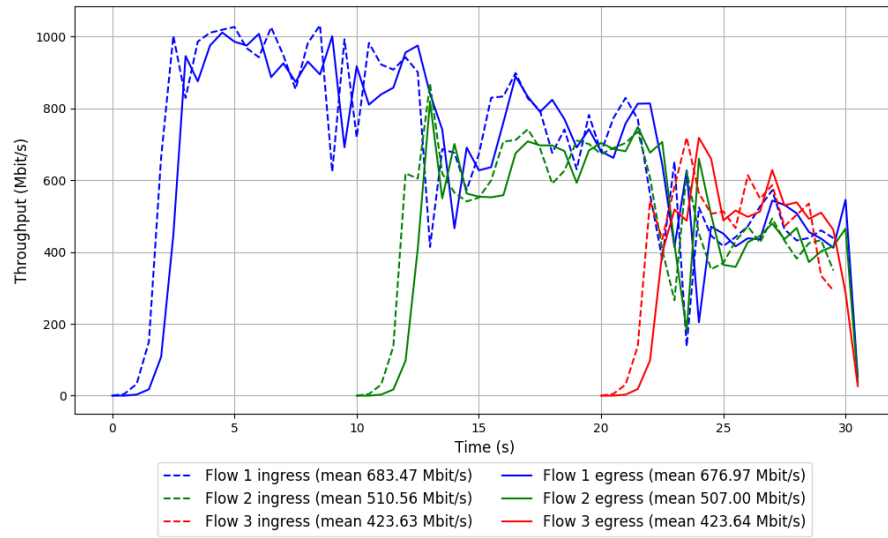


Run 5: Statistics of FillP-Sheep

Start at: 2018-09-25 21:35:57  
End at: 2018-09-25 21:36:27  
Local clock offset: -0.165 ms  
Remote clock offset: -0.011 ms

```
# Below is generated by plot.py at 2018-09-25 23:12:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1154.45 Mbit/s
95th percentile per-packet one-way delay: 188.963 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 676.97 Mbit/s
95th percentile per-packet one-way delay: 190.483 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 507.00 Mbit/s
95th percentile per-packet one-way delay: 188.694 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 423.64 Mbit/s
95th percentile per-packet one-way delay: 146.096 ms
Loss rate: 0.00%
```

## Run 5: Report of FillP-Sheep — Data Link

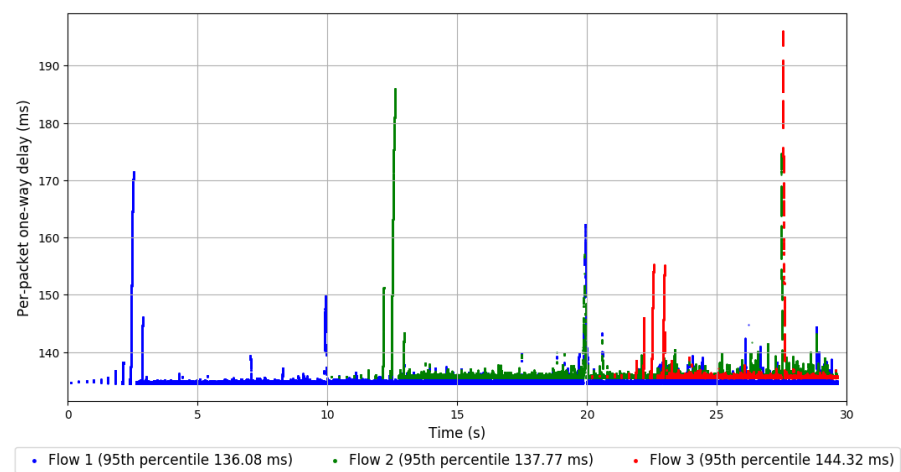
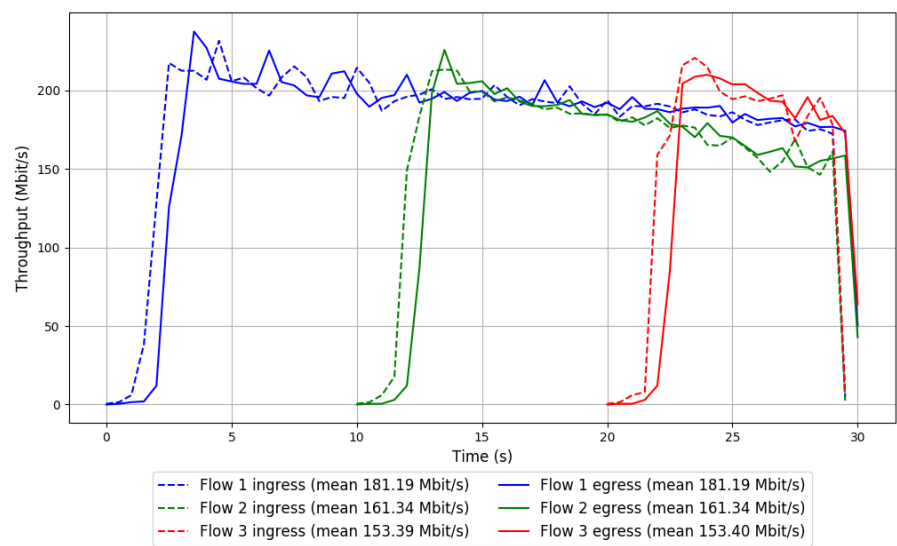


Run 1: Statistics of Indigo

Start at: 2018-09-25 19:01:53  
End at: 2018-09-25 19:02:23  
Local clock offset: -0.394 ms  
Remote clock offset: -0.452 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 336.87 Mbit/s  
95th percentile per-packet one-way delay: 137.126 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 181.19 Mbit/s  
95th percentile per-packet one-way delay: 136.084 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 161.34 Mbit/s  
95th percentile per-packet one-way delay: 137.774 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 153.40 Mbit/s  
95th percentile per-packet one-way delay: 144.321 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

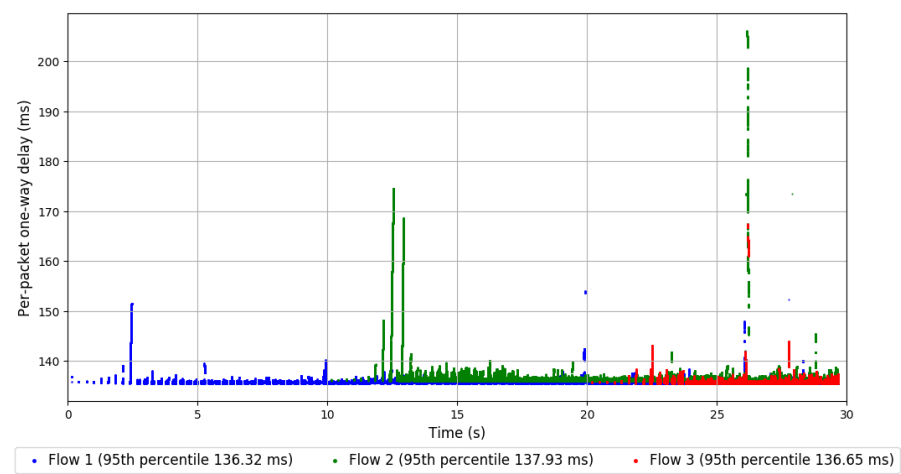
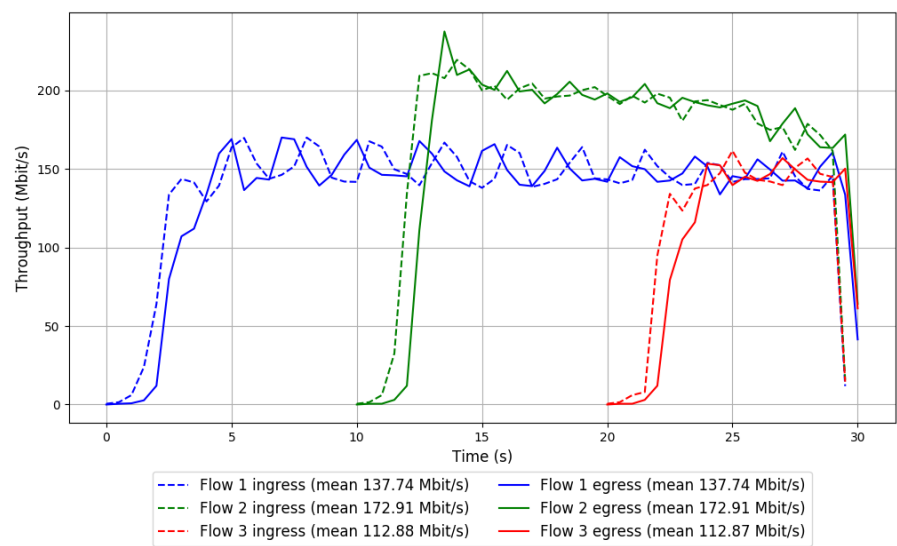


Run 2: Statistics of Indigo

Start at: 2018-09-25 19:37:06  
End at: 2018-09-25 19:37:36  
Local clock offset: -0.073 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 288.31 Mbit/s  
95th percentile per-packet one-way delay: 137.138 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 137.74 Mbit/s  
95th percentile per-packet one-way delay: 136.322 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 172.91 Mbit/s  
95th percentile per-packet one-way delay: 137.929 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 112.87 Mbit/s  
95th percentile per-packet one-way delay: 136.648 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-09-25 20:12:49

End at: 2018-09-25 20:13:19

Local clock offset: -0.165 ms

Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2018-09-25 23:12:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 296.77 Mbit/s

95th percentile per-packet one-way delay: 137.706 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 135.04 Mbit/s

95th percentile per-packet one-way delay: 137.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.07 Mbit/s

95th percentile per-packet one-way delay: 137.888 ms

Loss rate: 0.00%

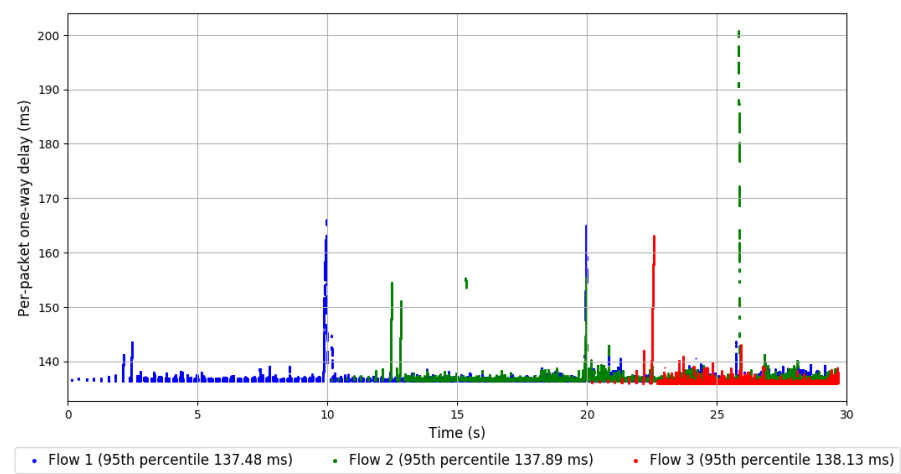
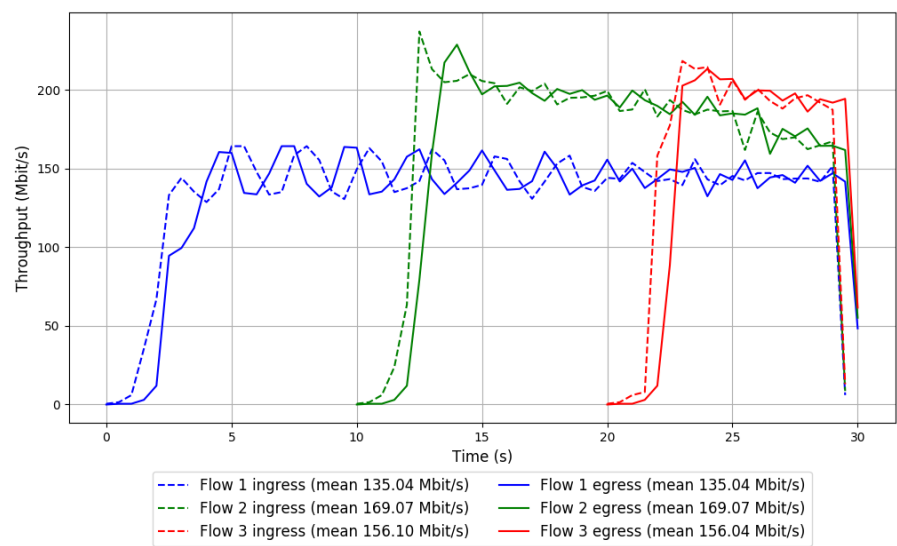
-- Flow 3:

Average throughput: 156.04 Mbit/s

95th percentile per-packet one-way delay: 138.126 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



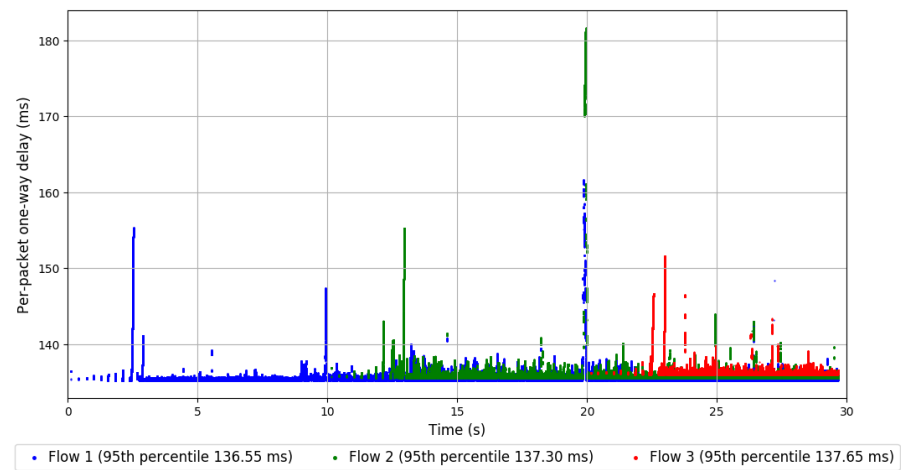
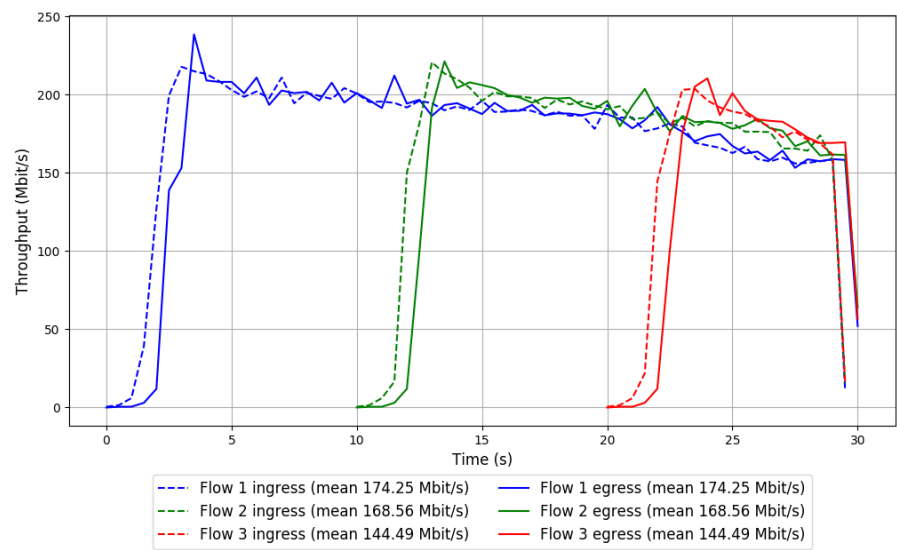


Run 4: Statistics of Indigo

Start at: 2018-09-25 20:48:21  
End at: 2018-09-25 20:48:51  
Local clock offset: -0.054 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 332.20 Mbit/s  
95th percentile per-packet one-way delay: 136.975 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 174.25 Mbit/s  
95th percentile per-packet one-way delay: 136.554 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 168.56 Mbit/s  
95th percentile per-packet one-way delay: 137.297 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 144.49 Mbit/s  
95th percentile per-packet one-way delay: 137.648 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

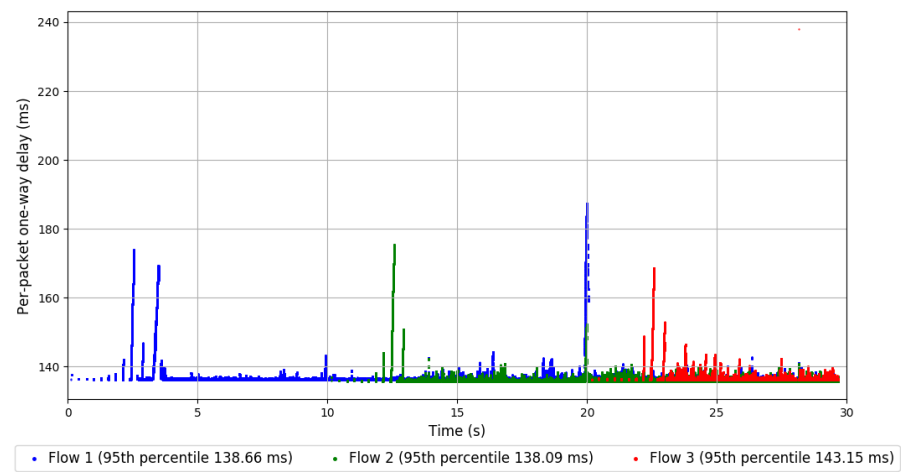
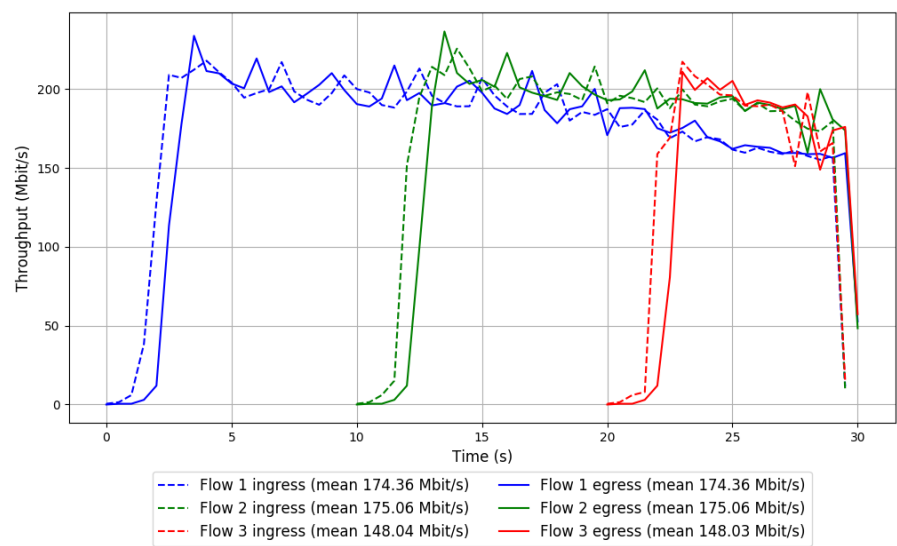


Run 5: Statistics of Indigo

Start at: 2018-09-25 21:23:47  
End at: 2018-09-25 21:24:17  
Local clock offset: -0.257 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 337.60 Mbit/s  
95th percentile per-packet one-way delay: 138.951 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 174.36 Mbit/s  
95th percentile per-packet one-way delay: 138.665 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 175.06 Mbit/s  
95th percentile per-packet one-way delay: 138.094 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 148.03 Mbit/s  
95th percentile per-packet one-way delay: 143.146 ms  
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

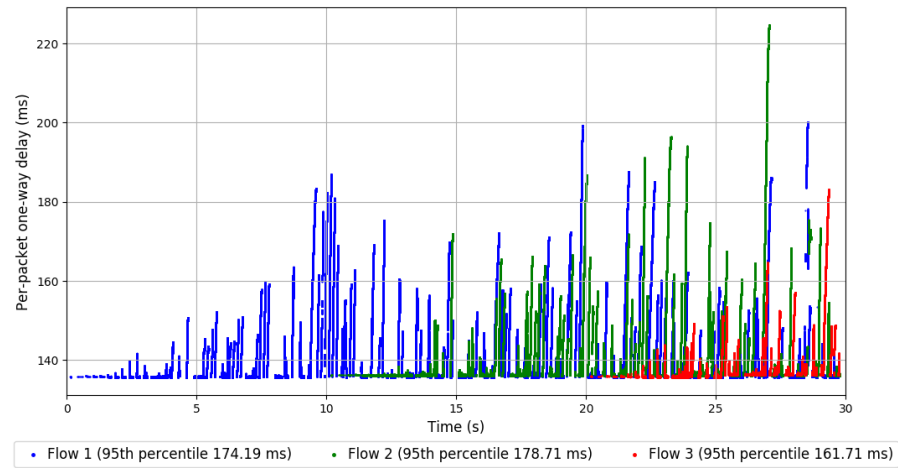
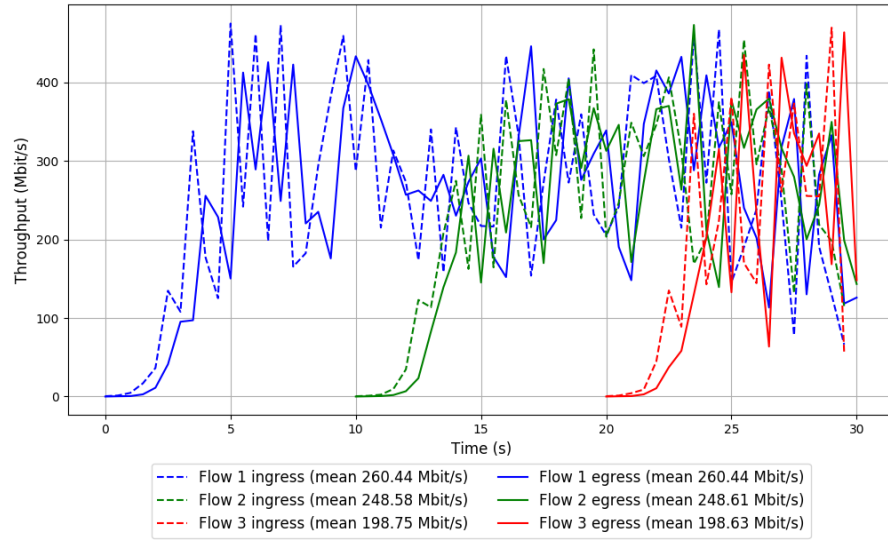


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-25 18:48:48  
End at: 2018-09-25 18:49:18  
Local clock offset: -0.139 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 488.41 Mbit/s  
95th percentile per-packet one-way delay: 173.829 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 260.44 Mbit/s  
95th percentile per-packet one-way delay: 174.189 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 248.61 Mbit/s  
95th percentile per-packet one-way delay: 178.707 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 198.63 Mbit/s  
95th percentile per-packet one-way delay: 161.711 ms  
Loss rate: 0.00%

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

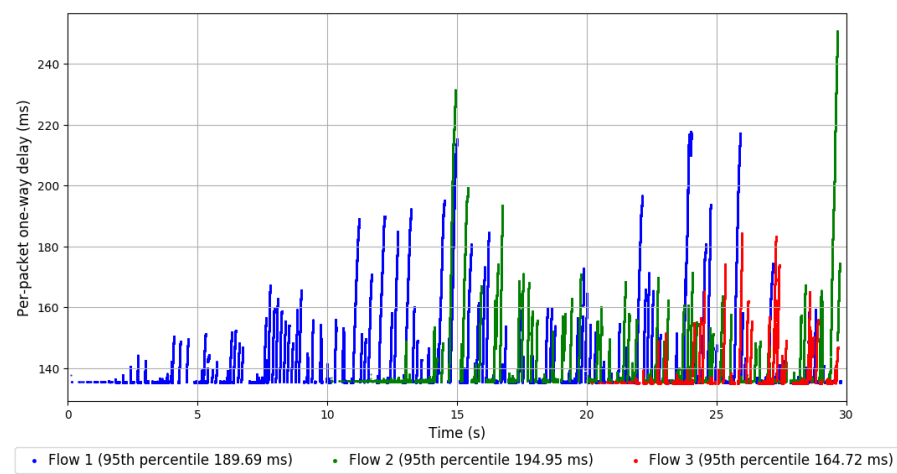
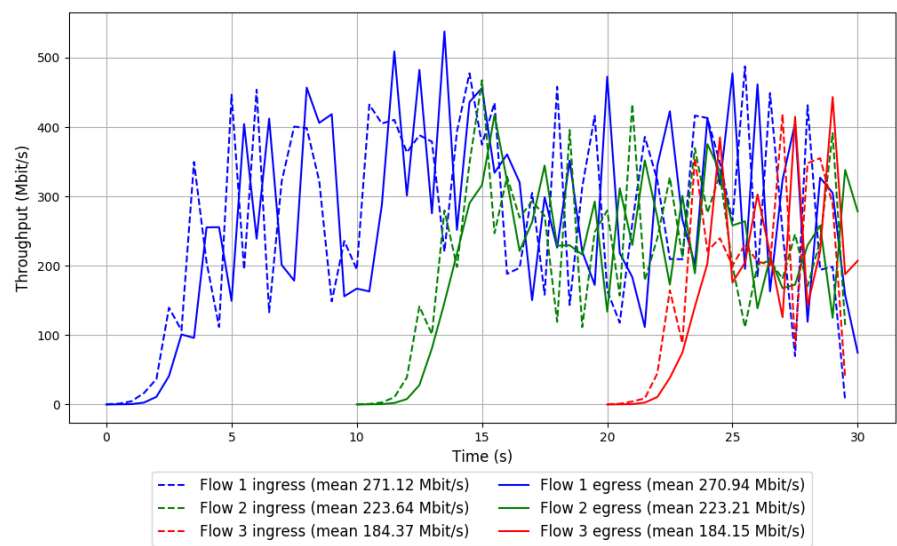


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-25 19:24:00  
End at: 2018-09-25 19:24:31  
Local clock offset: -0.233 ms  
Remote clock offset: -0.352 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 477.56 Mbit/s  
95th percentile per-packet one-way delay: 188.739 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 270.94 Mbit/s  
95th percentile per-packet one-way delay: 189.690 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 223.21 Mbit/s  
95th percentile per-packet one-way delay: 194.948 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 184.15 Mbit/s  
95th percentile per-packet one-way delay: 164.718 ms  
Loss rate: 0.00%

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



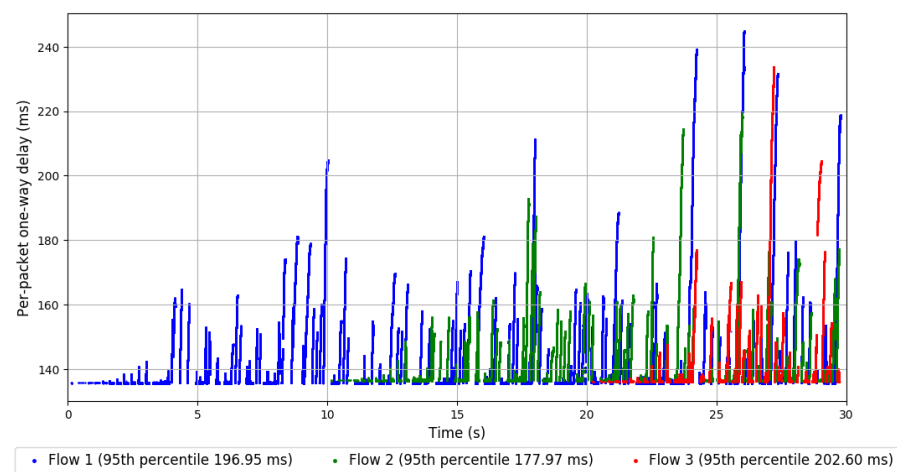
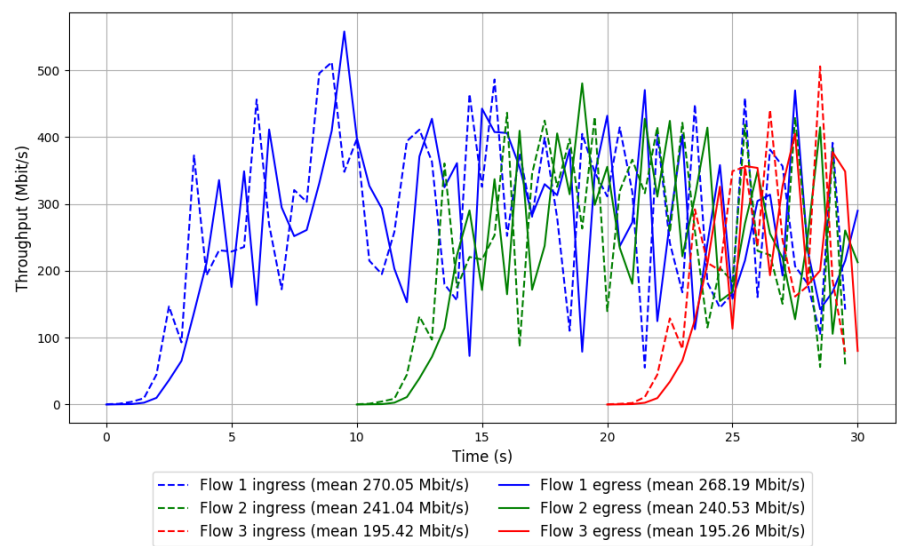


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-25 19:59:26  
End at: 2018-09-25 19:59:56  
Local clock offset: -0.158 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 489.66 Mbit/s  
95th percentile per-packet one-way delay: 191.849 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 268.19 Mbit/s  
95th percentile per-packet one-way delay: 196.952 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 240.53 Mbit/s  
95th percentile per-packet one-way delay: 177.972 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 195.26 Mbit/s  
95th percentile per-packet one-way delay: 202.605 ms  
Loss rate: 0.08%

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

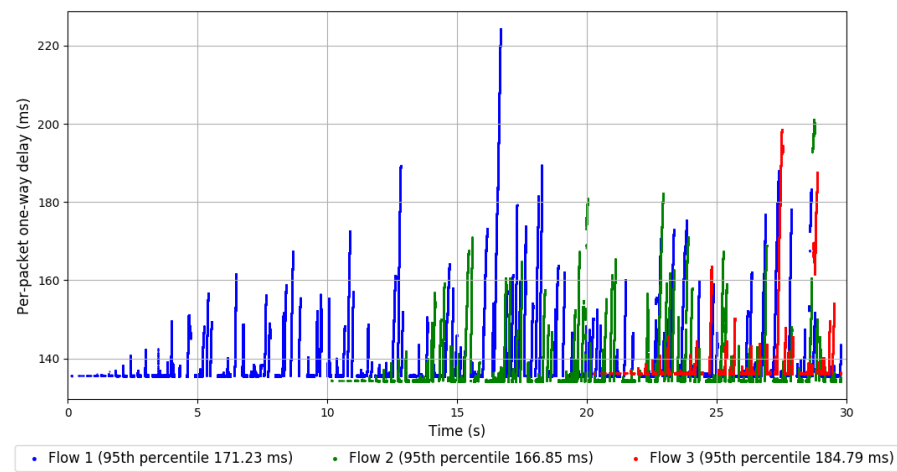
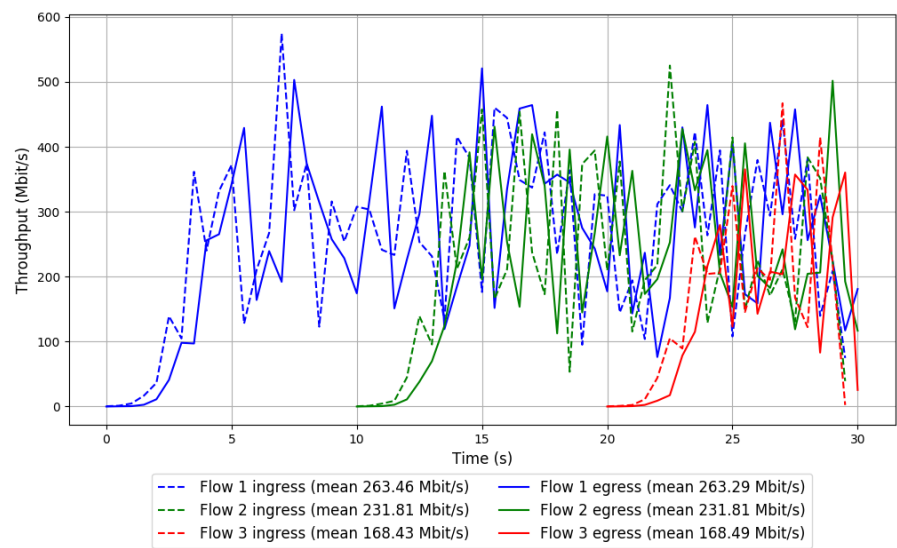


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-25 20:35:09  
End at: 2018-09-25 20:35:39  
Local clock offset: -0.328 ms  
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 470.93 Mbit/s  
95th percentile per-packet one-way delay: 171.210 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 263.29 Mbit/s  
95th percentile per-packet one-way delay: 171.229 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 231.81 Mbit/s  
95th percentile per-packet one-way delay: 166.849 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 168.49 Mbit/s  
95th percentile per-packet one-way delay: 184.794 ms  
Loss rate: 0.00%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-25 21:10:38

End at: 2018-09-25 21:11:08

Local clock offset: -0.156 ms

Remote clock offset: 0.341 ms

# Below is generated by plot.py at 2018-09-25 23:12:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 463.21 Mbit/s

95th percentile per-packet one-way delay: 169.082 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 255.91 Mbit/s

95th percentile per-packet one-way delay: 165.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 219.31 Mbit/s

95th percentile per-packet one-way delay: 166.310 ms

Loss rate: 0.00%

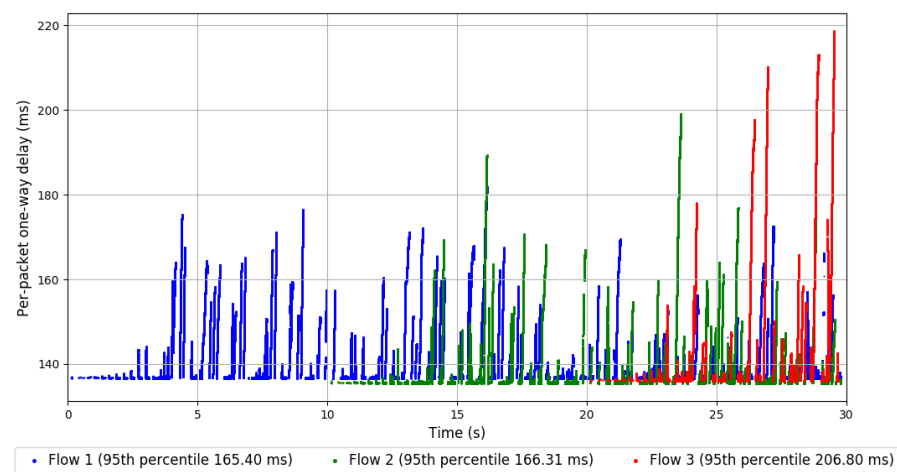
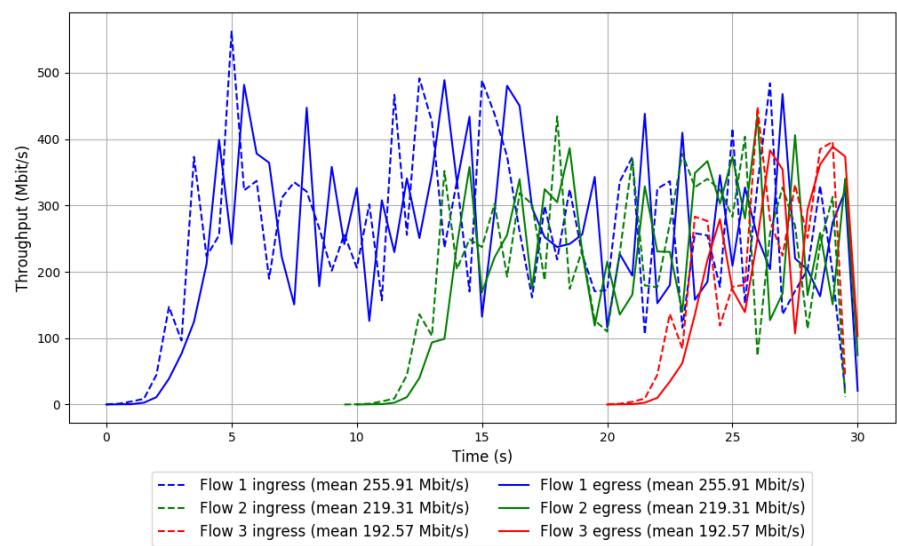
-- Flow 3:

Average throughput: 192.57 Mbit/s

95th percentile per-packet one-way delay: 206.797 ms

Loss rate: 0.00%

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

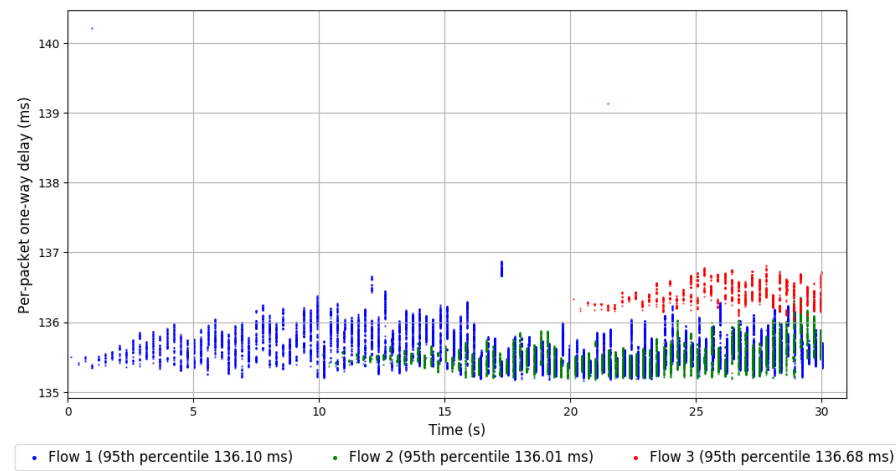
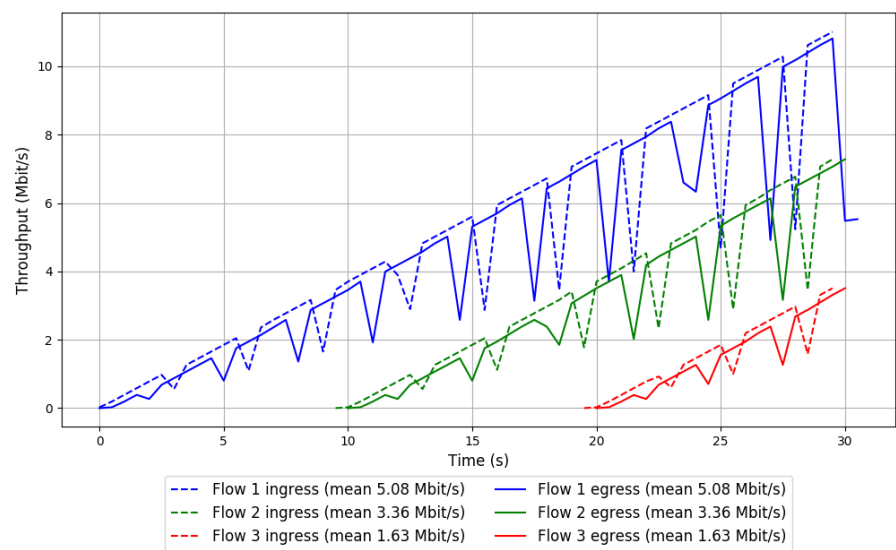


Run 1: Statistics of LEDBAT

Start at: 2018-09-25 18:47:28  
End at: 2018-09-25 18:47:58  
Local clock offset: -0.375 ms  
Remote clock offset: -0.475 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.85 Mbit/s  
95th percentile per-packet one-way delay: 136.334 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.08 Mbit/s  
95th percentile per-packet one-way delay: 136.100 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.36 Mbit/s  
95th percentile per-packet one-way delay: 136.012 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 136.676 ms  
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



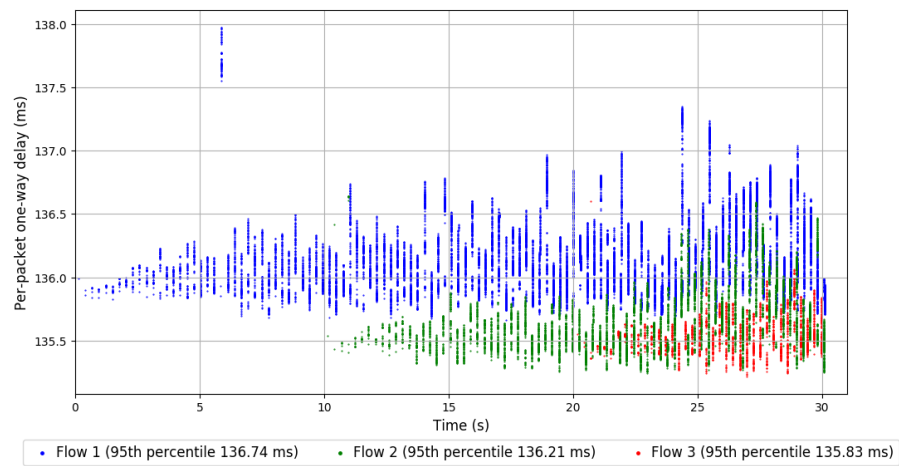
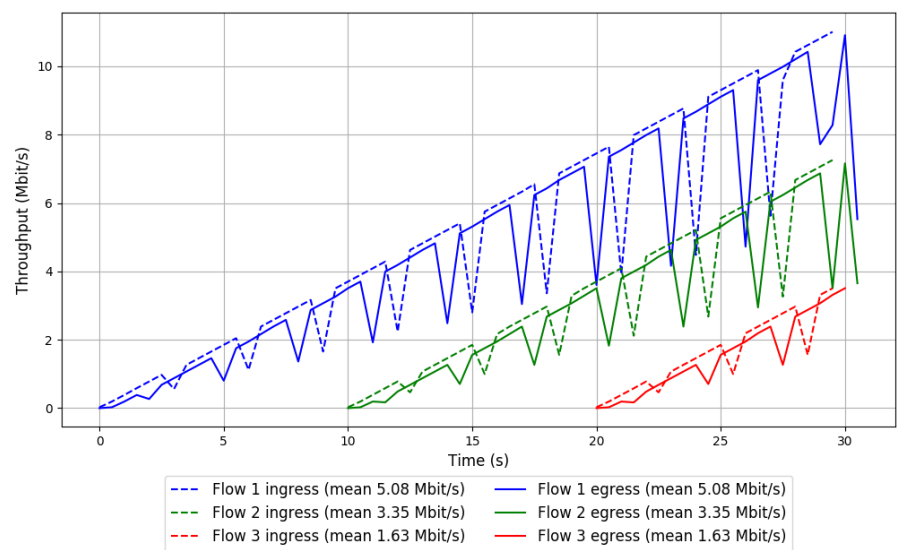


Run 2: Statistics of LEDBAT

Start at: 2018-09-25 19:22:41  
End at: 2018-09-25 19:23:11  
Local clock offset: -0.061 ms  
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.84 Mbit/s  
95th percentile per-packet one-way delay: 136.653 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.08 Mbit/s  
95th percentile per-packet one-way delay: 136.735 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.35 Mbit/s  
95th percentile per-packet one-way delay: 136.206 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 135.829 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

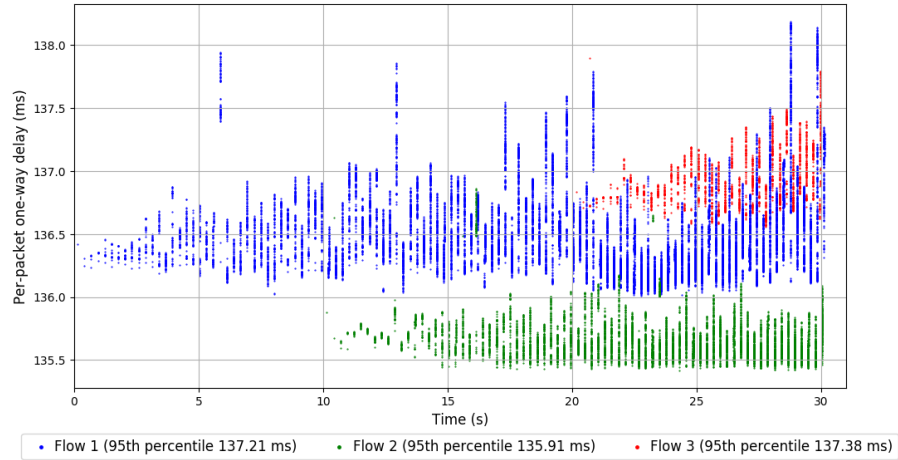
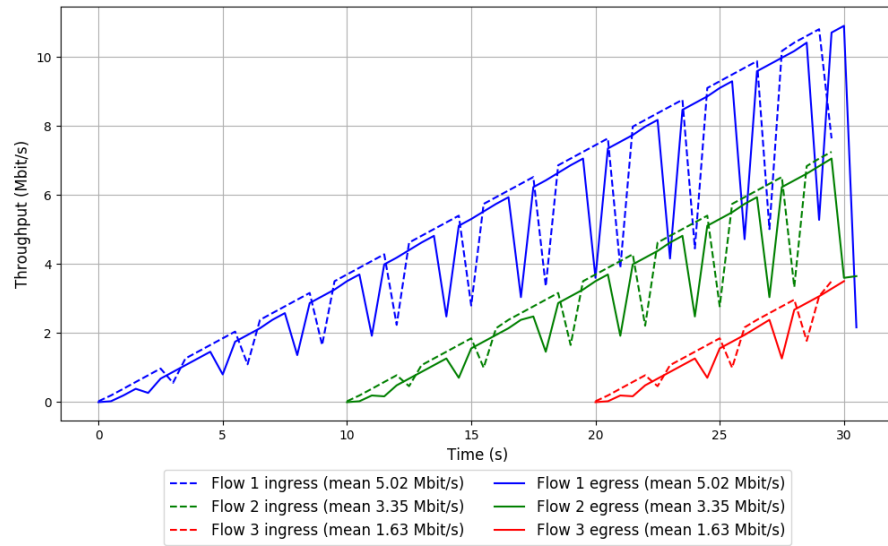


Run 3: Statistics of LEDBAT

Start at: 2018-09-25 19:58:06  
End at: 2018-09-25 19:58:36  
Local clock offset: -0.264 ms  
Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.77 Mbit/s  
95th percentile per-packet one-way delay: 137.157 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.02 Mbit/s  
95th percentile per-packet one-way delay: 137.213 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.35 Mbit/s  
95th percentile per-packet one-way delay: 135.910 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 137.384 ms  
Loss rate: 0.00%

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

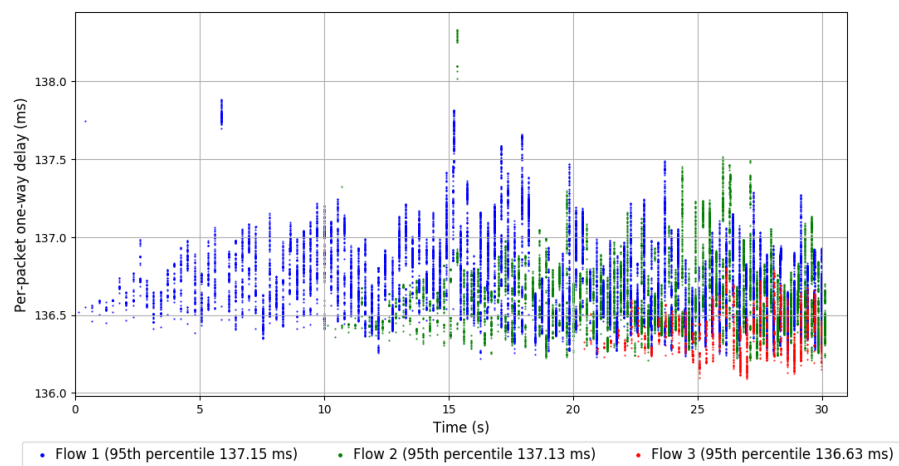
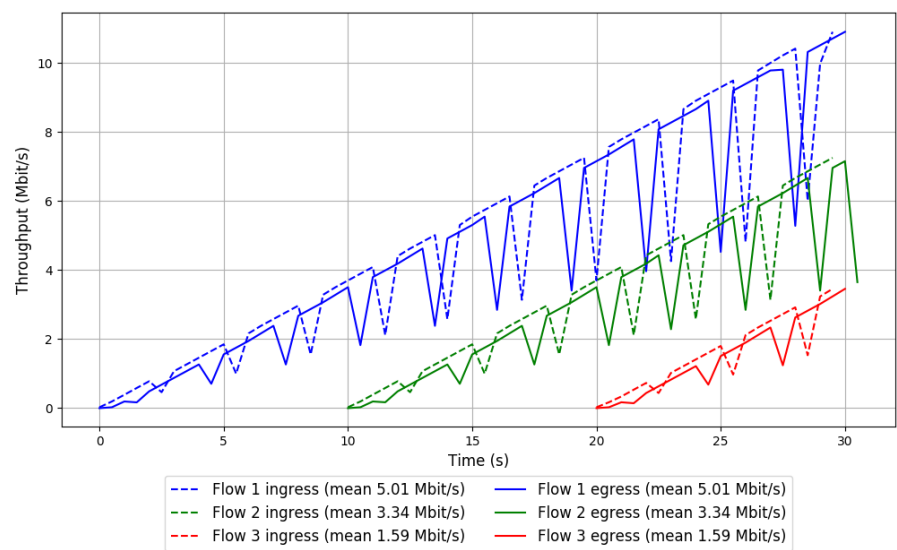


Run 4: Statistics of LEDBAT

Start at: 2018-09-25 20:33:50  
End at: 2018-09-25 20:34:20  
Local clock offset: -0.126 ms  
Remote clock offset: 0.055 ms

```
# Below is generated by plot.py at 2018-09-25 23:12:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 137.133 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.01 Mbit/s
95th percentile per-packet one-way delay: 137.150 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 137.129 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 136.633 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

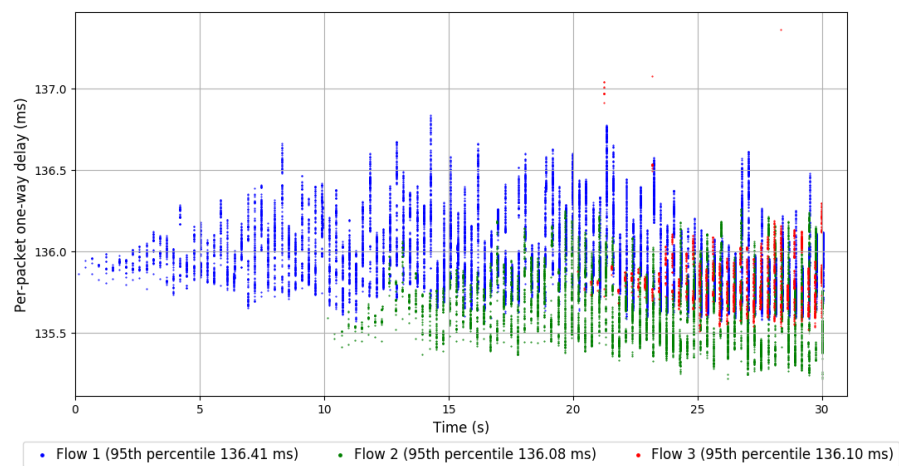
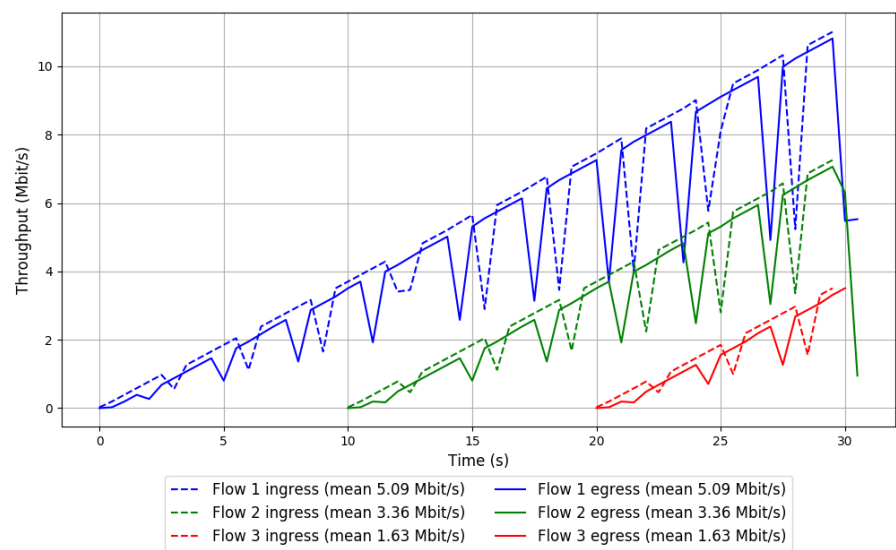


Run 5: Statistics of LEDBAT

Start at: 2018-09-25 21:09:19  
End at: 2018-09-25 21:09:49  
Local clock offset: -0.343 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-09-25 23:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.86 Mbit/s  
95th percentile per-packet one-way delay: 136.353 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.09 Mbit/s  
95th percentile per-packet one-way delay: 136.410 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.36 Mbit/s  
95th percentile per-packet one-way delay: 136.078 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 136.102 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link





Run 1: Statistics of Indigo-Muses

Start at: 2018-09-25 18:45:29

End at: 2018-09-25 18:45:59

Local clock offset: -0.065 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-09-25 23:16:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 668.08 Mbit/s

95th percentile per-packet one-way delay: 211.069 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 250.85 Mbit/s

95th percentile per-packet one-way delay: 200.353 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 464.19 Mbit/s

95th percentile per-packet one-way delay: 215.874 ms

Loss rate: 0.00%

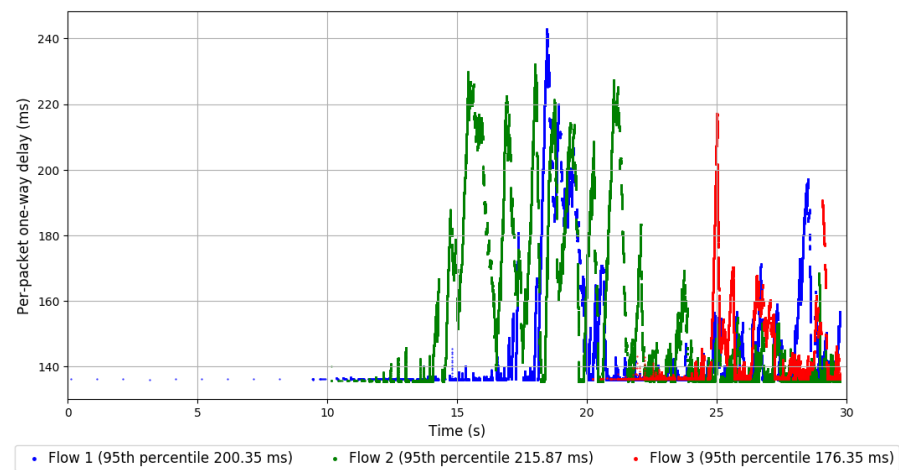
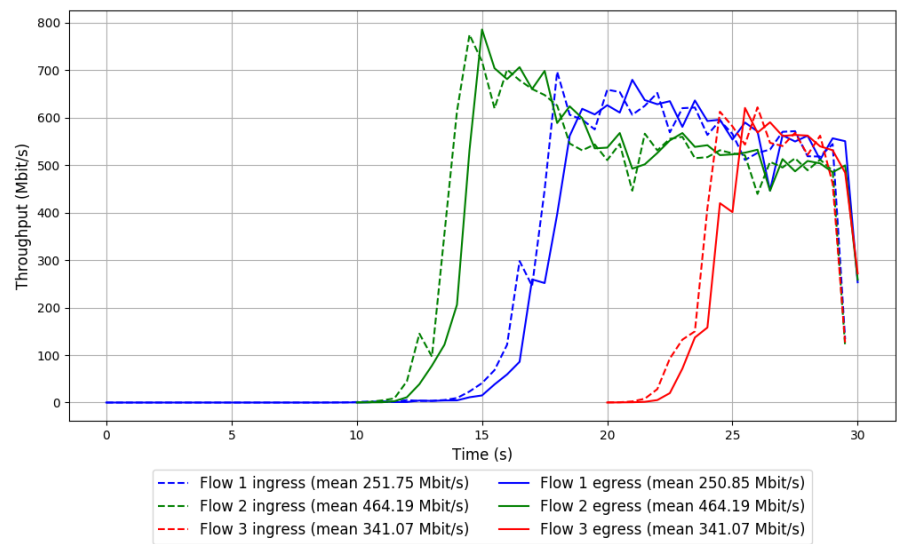
-- Flow 3:

Average throughput: 341.07 Mbit/s

95th percentile per-packet one-way delay: 176.353 ms

Loss rate: 0.00%

Run 1: Report of Indigo-Muses — Data Link

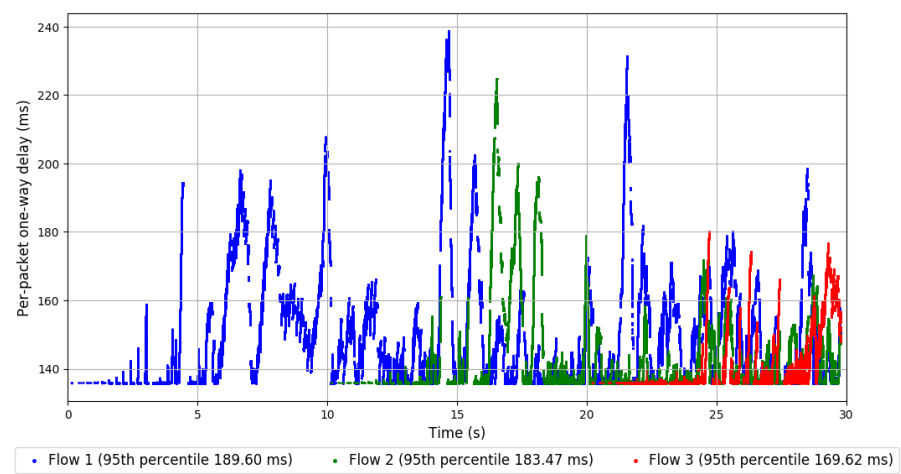
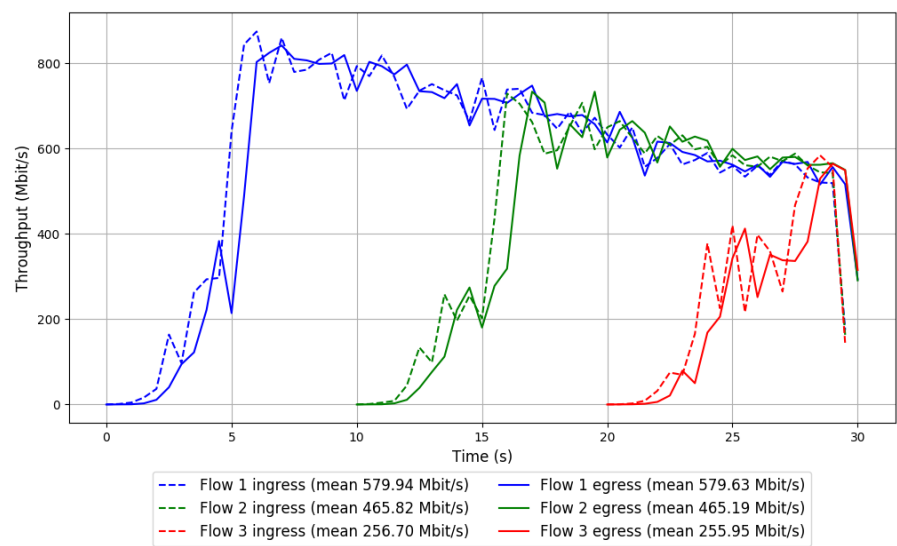


Run 2: Statistics of Indigo-Muses

Start at: 2018-09-25 19:20:26  
End at: 2018-09-25 19:20:56  
Local clock offset: -0.306 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-09-25 23:22:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 970.57 Mbit/s  
95th percentile per-packet one-way delay: 186.149 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 579.63 Mbit/s  
95th percentile per-packet one-way delay: 189.604 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 465.19 Mbit/s  
95th percentile per-packet one-way delay: 183.470 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 255.95 Mbit/s  
95th percentile per-packet one-way delay: 169.625 ms  
Loss rate: 0.27%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-09-25 19:55:51

End at: 2018-09-25 19:56:21

Local clock offset: -0.323 ms

Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-09-25 23:22:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 964.78 Mbit/s

95th percentile per-packet one-way delay: 193.109 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 537.79 Mbit/s

95th percentile per-packet one-way delay: 193.034 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 479.23 Mbit/s

95th percentile per-packet one-way delay: 194.654 ms

Loss rate: 0.00%

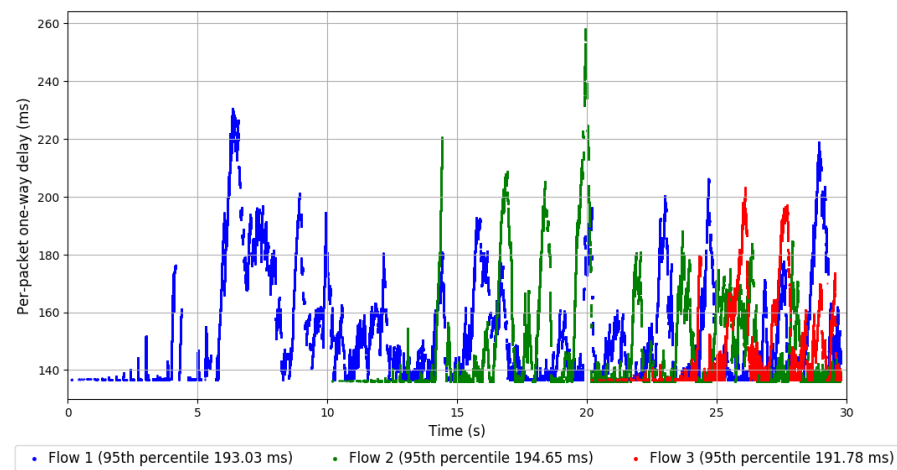
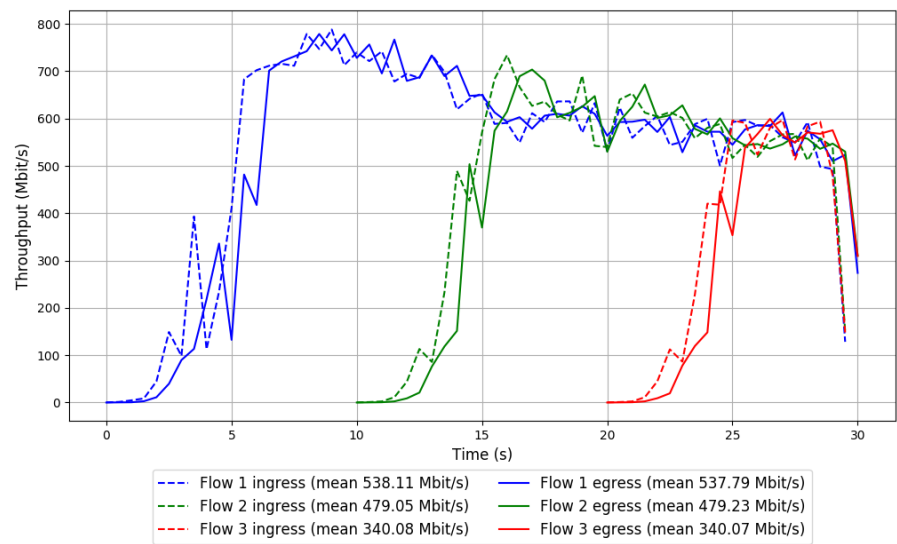
-- Flow 3:

Average throughput: 340.07 Mbit/s

95th percentile per-packet one-way delay: 191.779 ms

Loss rate: 0.00%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-25 20:31:33

End at: 2018-09-25 20:32:03

Local clock offset: -0.41 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-09-25 23:27:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 995.64 Mbit/s

95th percentile per-packet one-way delay: 192.712 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 566.19 Mbit/s

95th percentile per-packet one-way delay: 191.510 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 487.40 Mbit/s

95th percentile per-packet one-way delay: 179.108 ms

Loss rate: 0.01%

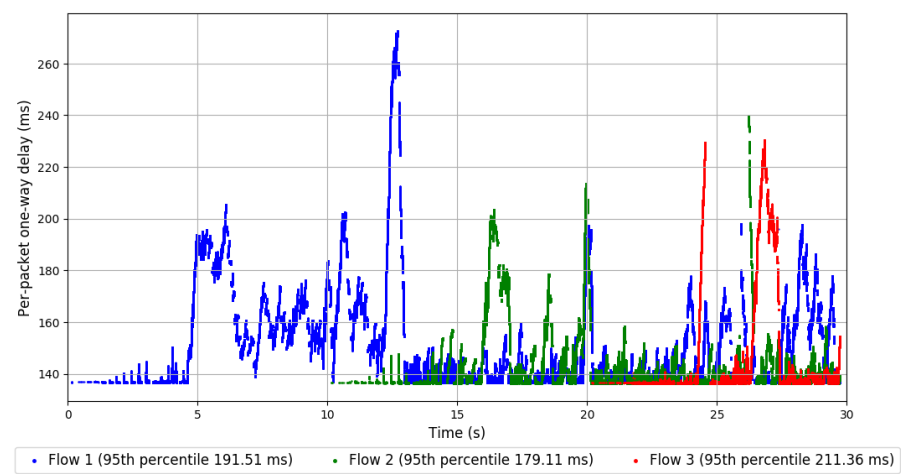
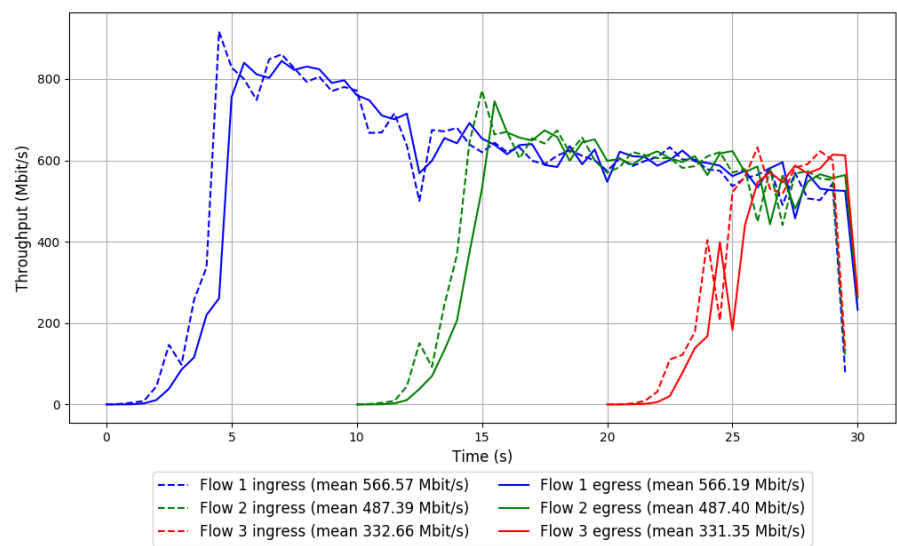
-- Flow 3:

Average throughput: 331.35 Mbit/s

95th percentile per-packet one-way delay: 211.364 ms

Loss rate: 0.40%

Run 4: Report of Indigo-Muses — Data Link





Run 5: Statistics of Indigo-Muses

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

End at: 2018-09-25 21:07:39

Local clock offset: -0.03 ms

Remote clock offset: 0.346 ms

# Below is generated by plot.py at 2018-09-25 23:27:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 893.99 Mbit/s

95th percentile per-packet one-way delay: 192.310 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 505.74 Mbit/s

95th percentile per-packet one-way delay: 194.032 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 454.56 Mbit/s

95th percentile per-packet one-way delay: 183.835 ms

Loss rate: 0.07%

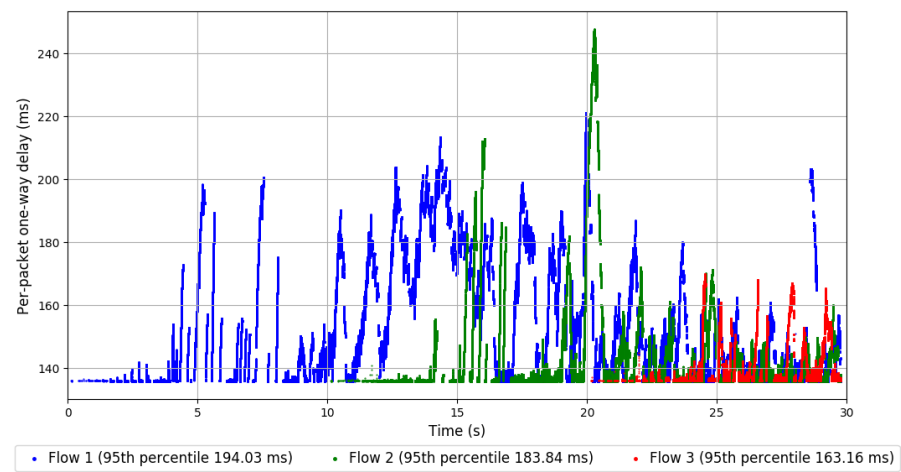
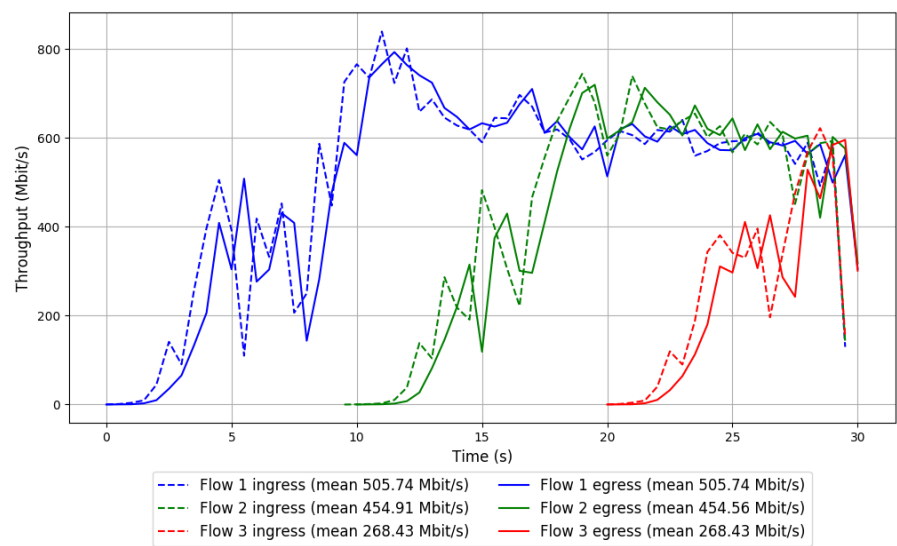
-- Flow 3:

Average throughput: 268.43 Mbit/s

95th percentile per-packet one-way delay: 163.160 ms

Loss rate: 0.00%

Run 5: Report of Indigo-Muses — Data Link

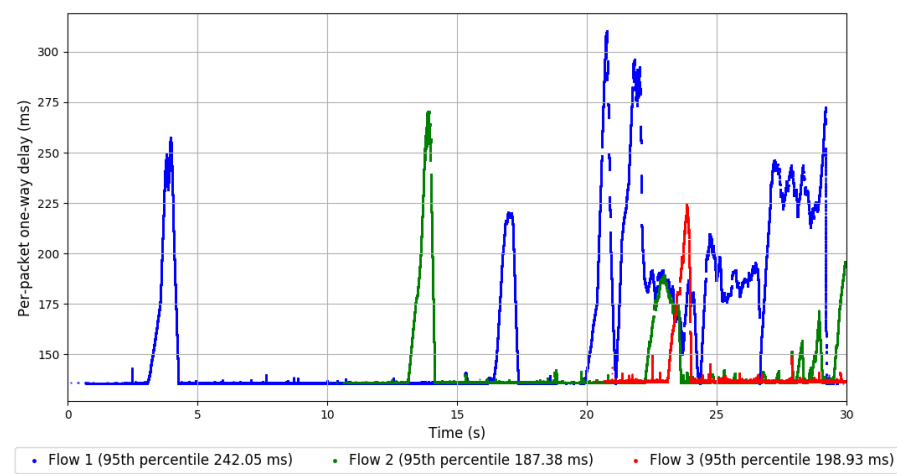
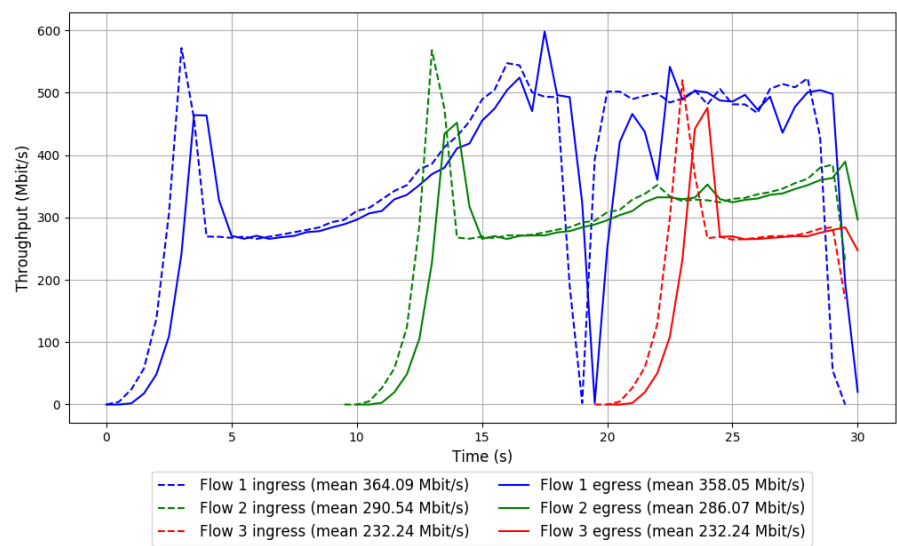


Run 1: Statistics of PCC-Allegro

Start at: 2018-09-25 19:09:35  
End at: 2018-09-25 19:10:06  
Local clock offset: -0.123 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-09-25 23:32:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 624.50 Mbit/s  
95th percentile per-packet one-way delay: 235.638 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 358.05 Mbit/s  
95th percentile per-packet one-way delay: 242.048 ms  
Loss rate: 1.66%  
-- Flow 2:  
Average throughput: 286.07 Mbit/s  
95th percentile per-packet one-way delay: 187.377 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 232.24 Mbit/s  
95th percentile per-packet one-way delay: 198.929 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link

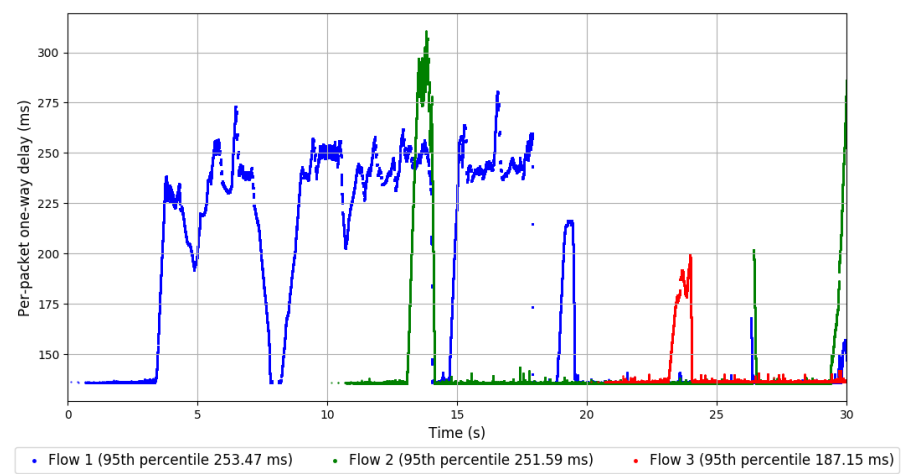
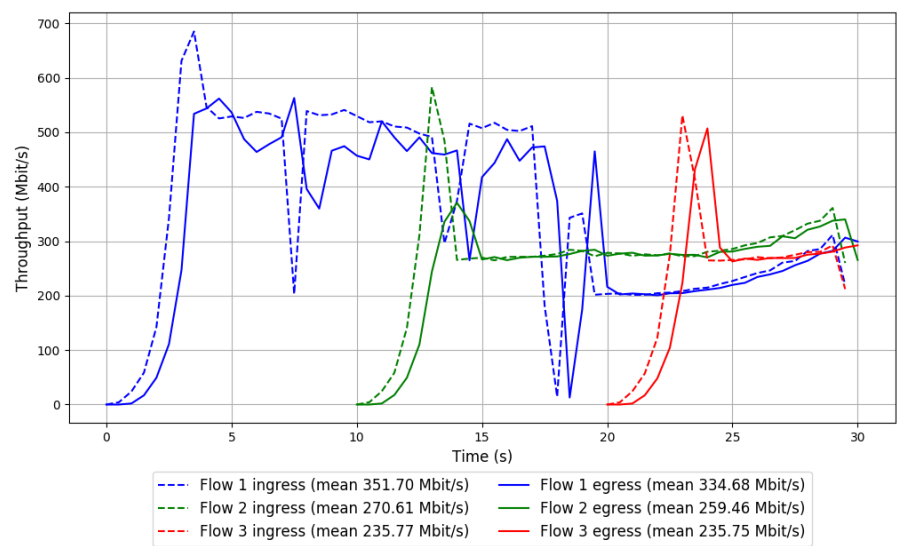


Run 2: Statistics of PCC-Allegro

Start at: 2018-09-25 19:44:50  
End at: 2018-09-25 19:45:20  
Local clock offset: -0.214 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-09-25 23:32:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 584.82 Mbit/s  
95th percentile per-packet one-way delay: 252.619 ms  
Loss rate: 4.00%  
-- Flow 1:  
Average throughput: 334.68 Mbit/s  
95th percentile per-packet one-way delay: 253.467 ms  
Loss rate: 4.83%  
-- Flow 2:  
Average throughput: 259.46 Mbit/s  
95th percentile per-packet one-way delay: 251.588 ms  
Loss rate: 4.10%  
-- Flow 3:  
Average throughput: 235.75 Mbit/s  
95th percentile per-packet one-way delay: 187.149 ms  
Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-09-25 20:20:32

End at: 2018-09-25 20:21:02

Local clock offset: -0.16 ms

Remote clock offset: 0.358 ms

# Below is generated by plot.py at 2018-09-25 23:33:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 600.48 Mbit/s

95th percentile per-packet one-way delay: 254.059 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 318.60 Mbit/s

95th percentile per-packet one-way delay: 214.809 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 313.70 Mbit/s

95th percentile per-packet one-way delay: 265.389 ms

Loss rate: 5.05%

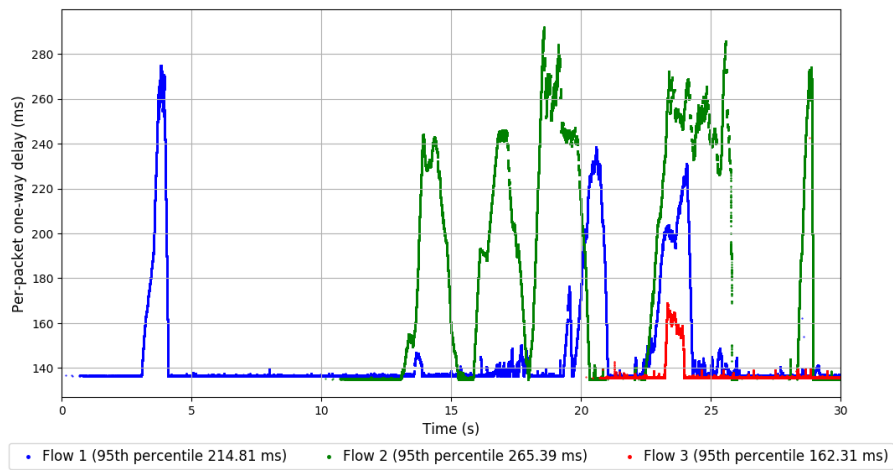
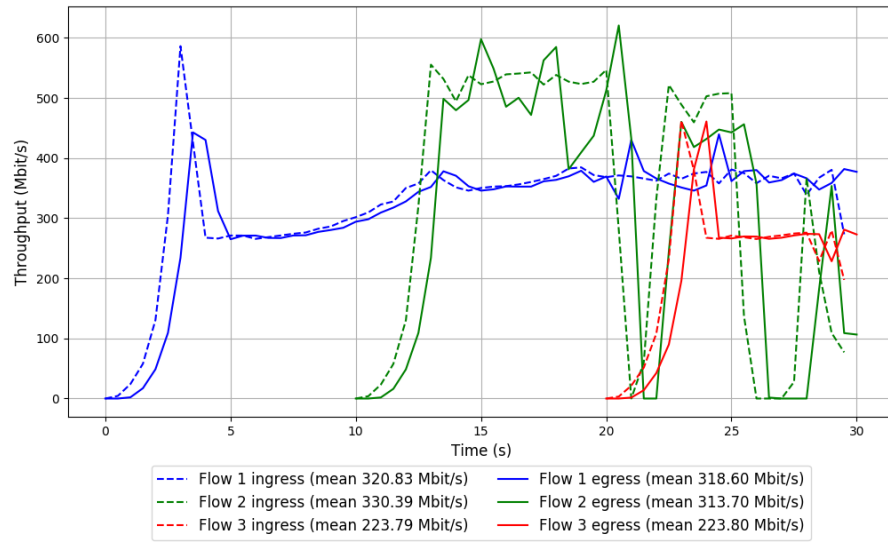
-- Flow 3:

Average throughput: 223.80 Mbit/s

95th percentile per-packet one-way delay: 162.312 ms

Loss rate: 0.00%

### Run 3: Report of PCC-Allegro — Data Link



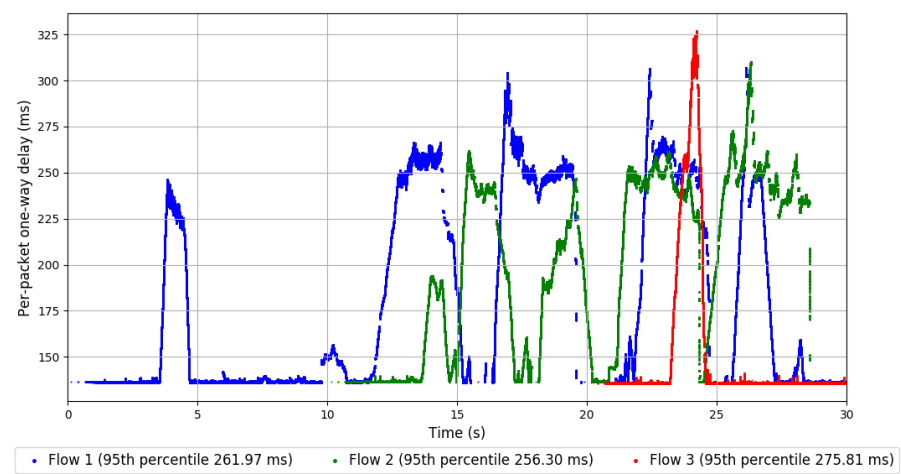
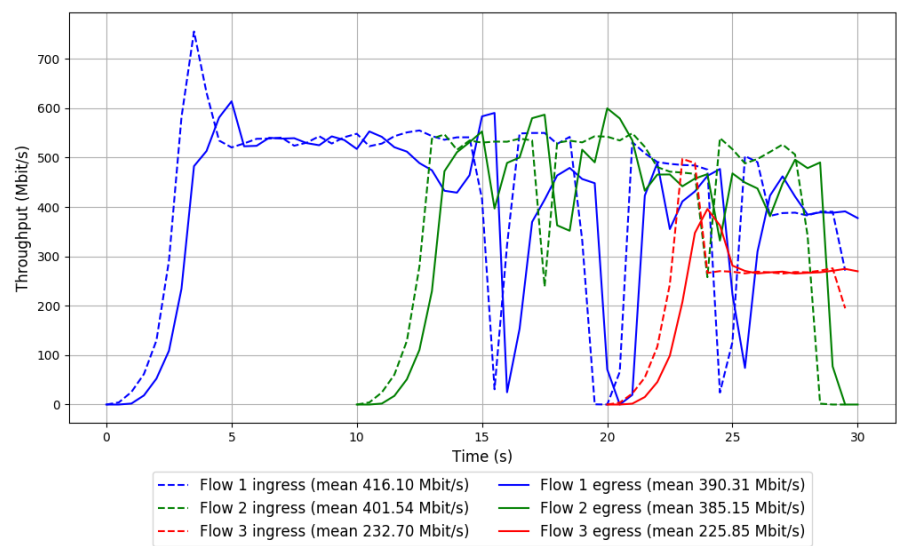


Run 4: Statistics of PCC-Allegro

Start at: 2018-09-25 20:56:09  
End at: 2018-09-25 20:56:39  
Local clock offset: -0.279 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-09-25 23:43:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 720.13 Mbit/s  
95th percentile per-packet one-way delay: 260.631 ms  
Loss rate: 5.13%  
-- Flow 1:  
Average throughput: 390.31 Mbit/s  
95th percentile per-packet one-way delay: 261.973 ms  
Loss rate: 6.20%  
-- Flow 2:  
Average throughput: 385.15 Mbit/s  
95th percentile per-packet one-way delay: 256.299 ms  
Loss rate: 4.08%  
-- Flow 3:  
Average throughput: 225.85 Mbit/s  
95th percentile per-packet one-way delay: 275.805 ms  
Loss rate: 2.94%

Run 4: Report of PCC-Allegro — Data Link

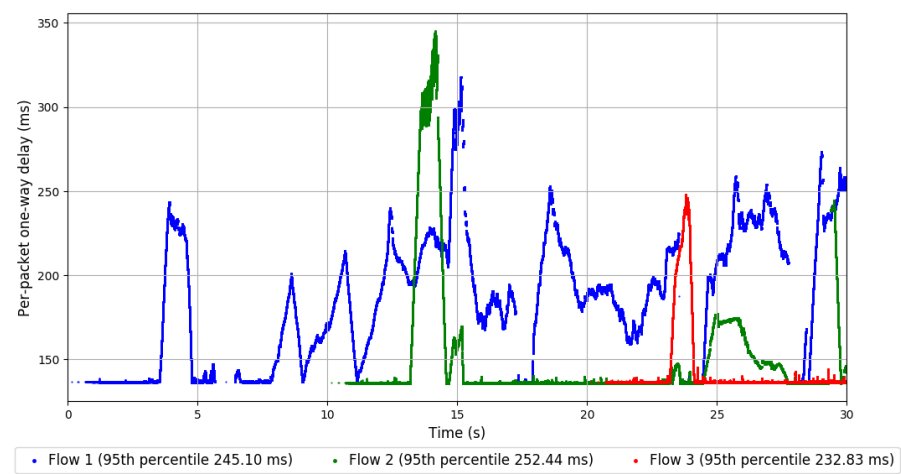
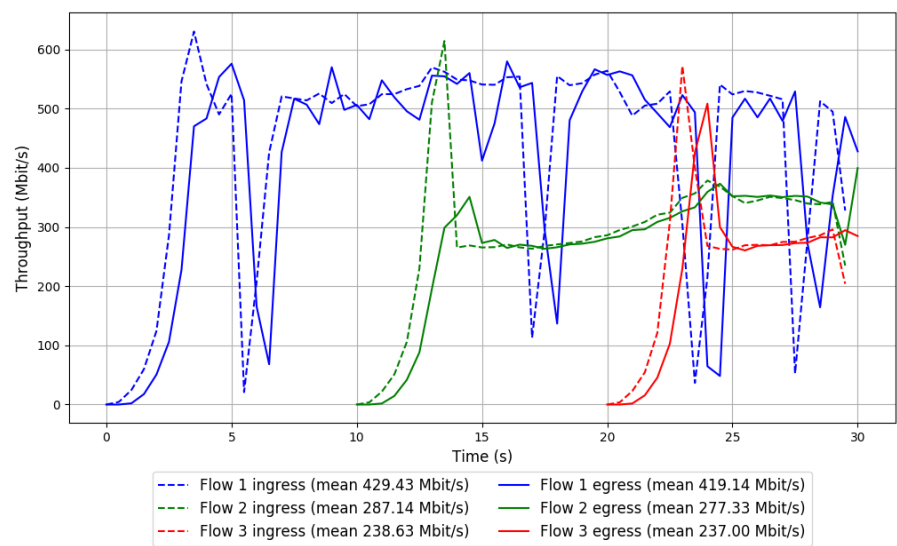


Run 5: Statistics of PCC-Allegro

Start at: 2018-09-25 21:31:36  
End at: 2018-09-25 21:32:06  
Local clock offset: -0.339 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-09-25 23:48:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 681.29 Mbit/s  
95th percentile per-packet one-way delay: 242.683 ms  
Loss rate: 2.59%  
-- Flow 1:  
Average throughput: 419.14 Mbit/s  
95th percentile per-packet one-way delay: 245.097 ms  
Loss rate: 2.47%  
-- Flow 2:  
Average throughput: 277.33 Mbit/s  
95th percentile per-packet one-way delay: 252.436 ms  
Loss rate: 3.53%  
-- Flow 3:  
Average throughput: 237.00 Mbit/s  
95th percentile per-packet one-way delay: 232.826 ms  
Loss rate: 1.00%

Run 5: Report of PCC-Allegro — Data Link

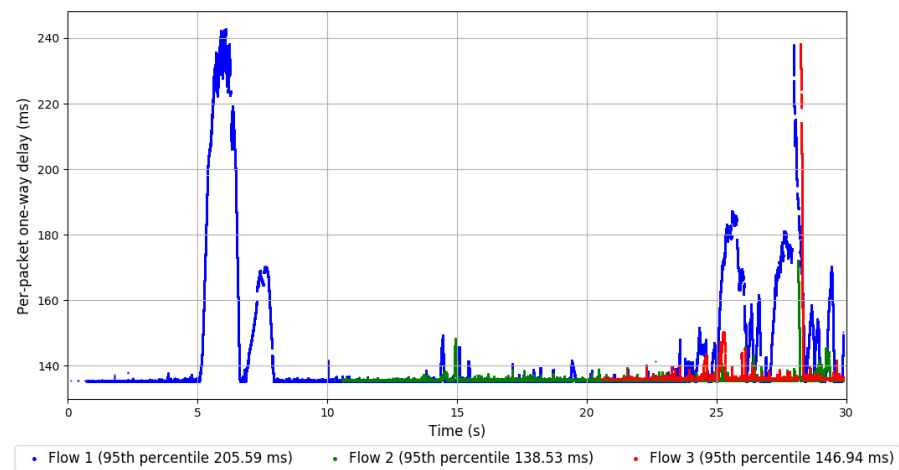
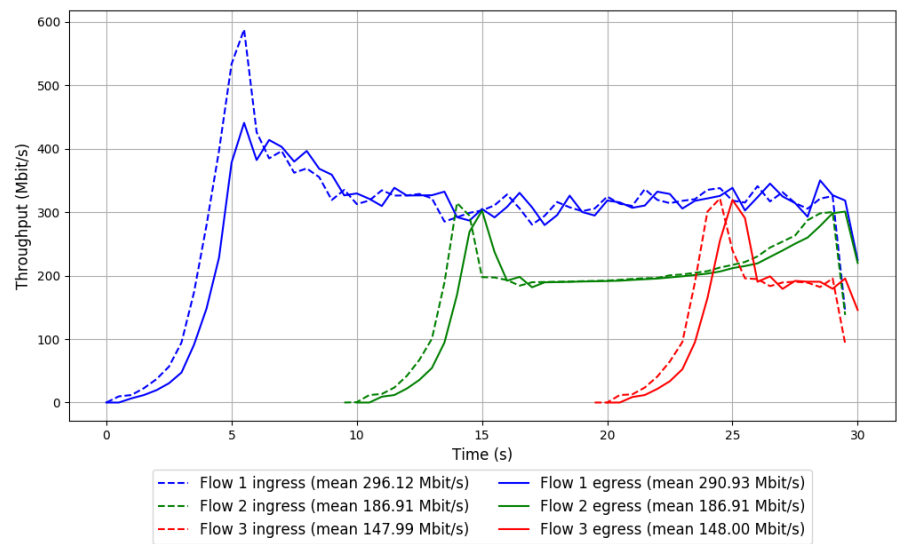


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-25 18:59:45
End at: 2018-09-25 19:00:15
Local clock offset: -0.215 ms
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2018-09-25 23:48:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 464.76 Mbit/s
95th percentile per-packet one-way delay: 181.539 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 290.93 Mbit/s
95th percentile per-packet one-way delay: 205.593 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 186.91 Mbit/s
95th percentile per-packet one-way delay: 138.526 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.00 Mbit/s
95th percentile per-packet one-way delay: 146.944 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

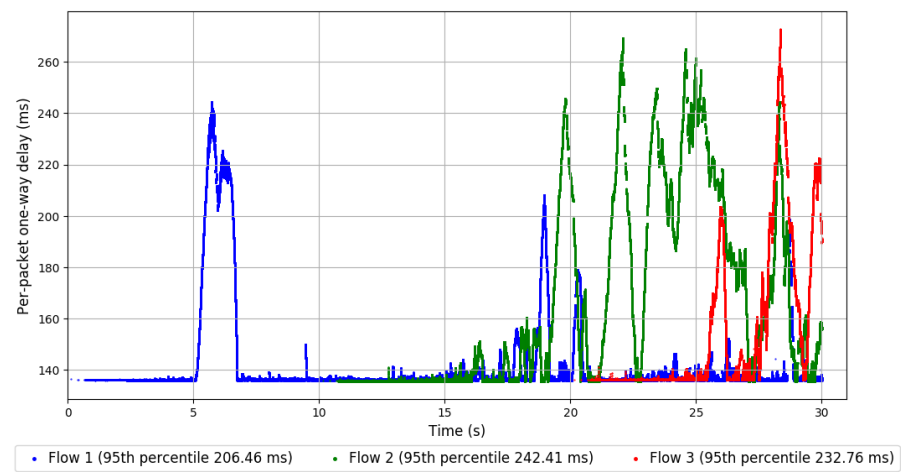
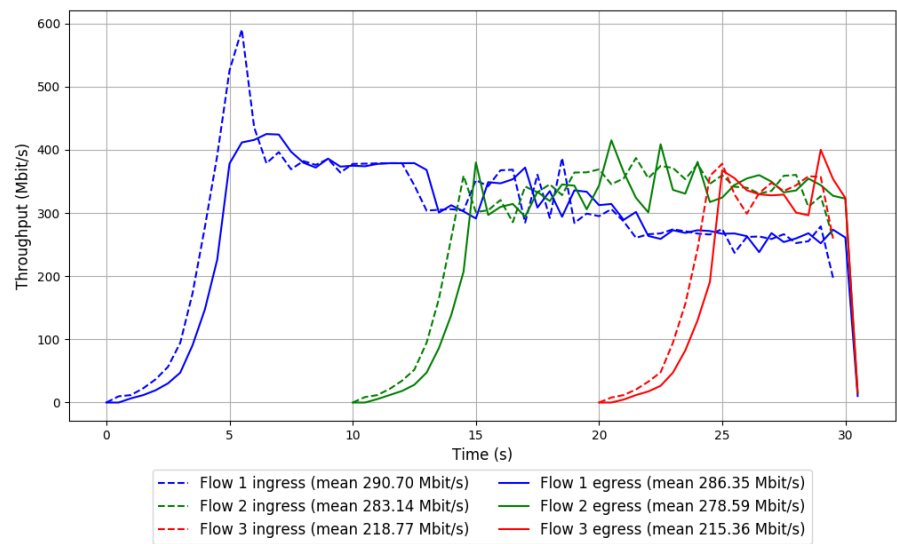


```
Run 2: Statistics of PCC-Expr

Start at: 2018-09-25 19:34:50
End at: 2018-09-25 19:35:20
Local clock offset: -0.166 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-09-25 23:48:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.55 Mbit/s
95th percentile per-packet one-way delay: 228.652 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 286.35 Mbit/s
95th percentile per-packet one-way delay: 206.463 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 278.59 Mbit/s
95th percentile per-packet one-way delay: 242.411 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 215.36 Mbit/s
95th percentile per-packet one-way delay: 232.763 ms
Loss rate: 1.54%
```

Run 2: Report of PCC-Expr — Data Link





Run 3: Statistics of PCC-Expr

Start at: 2018-09-25 20:10:37

End at: 2018-09-25 20:11:07

Local clock offset: -0.102 ms

Remote clock offset: 0.379 ms

# Below is generated by plot.py at 2018-09-25 23:48:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 489.27 Mbit/s

95th percentile per-packet one-way delay: 240.945 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 301.90 Mbit/s

95th percentile per-packet one-way delay: 221.487 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 180.56 Mbit/s

95th percentile per-packet one-way delay: 141.389 ms

Loss rate: 0.00%

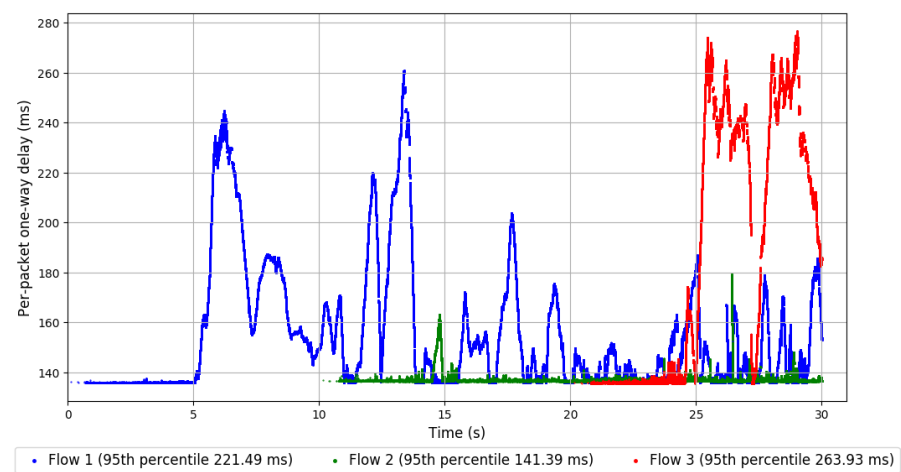
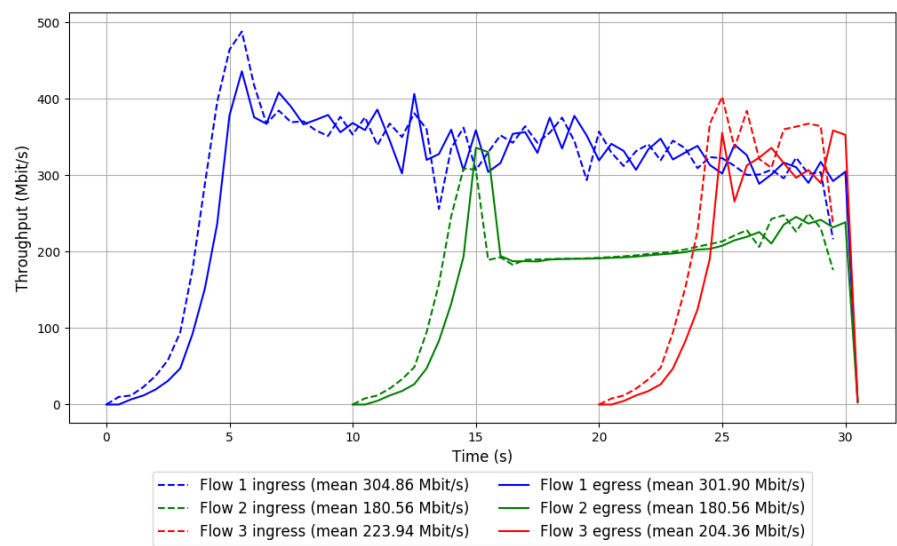
-- Flow 3:

Average throughput: 204.36 Mbit/s

95th percentile per-packet one-way delay: 263.927 ms

Loss rate: 8.73%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-09-25 20:46:14

End at: 2018-09-25 20:46:44

Local clock offset: -0.378 ms

Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-09-25 23:49:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 451.65 Mbit/s

95th percentile per-packet one-way delay: 160.596 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 278.27 Mbit/s

95th percentile per-packet one-way delay: 203.272 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 188.08 Mbit/s

95th percentile per-packet one-way delay: 143.565 ms

Loss rate: 0.03%

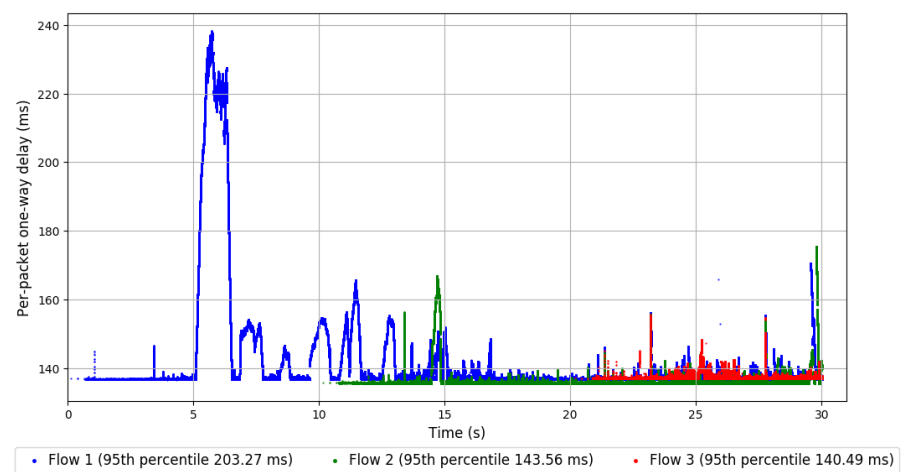
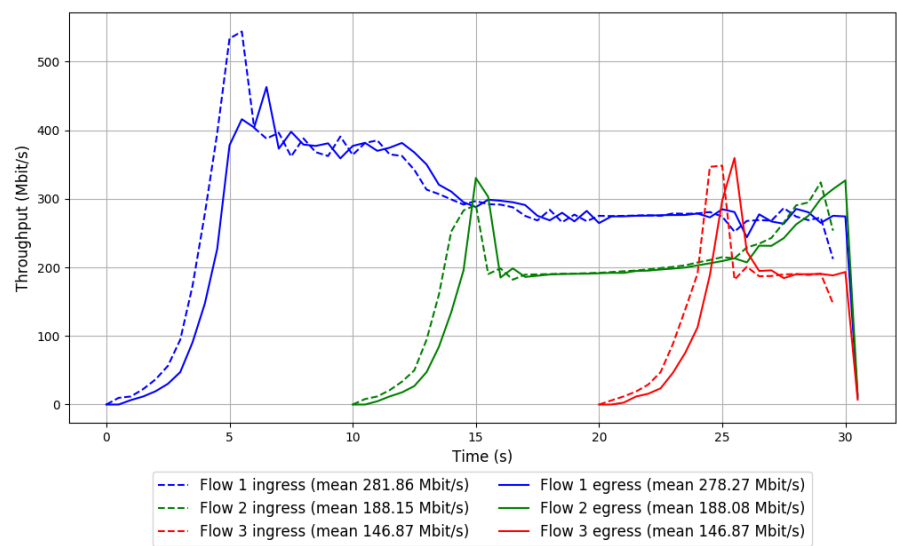
-- Flow 3:

Average throughput: 146.87 Mbit/s

95th percentile per-packet one-way delay: 140.487 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

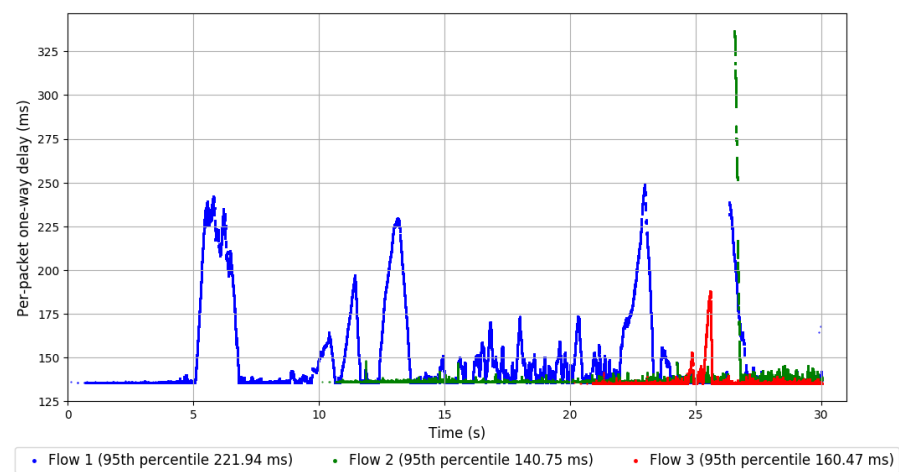
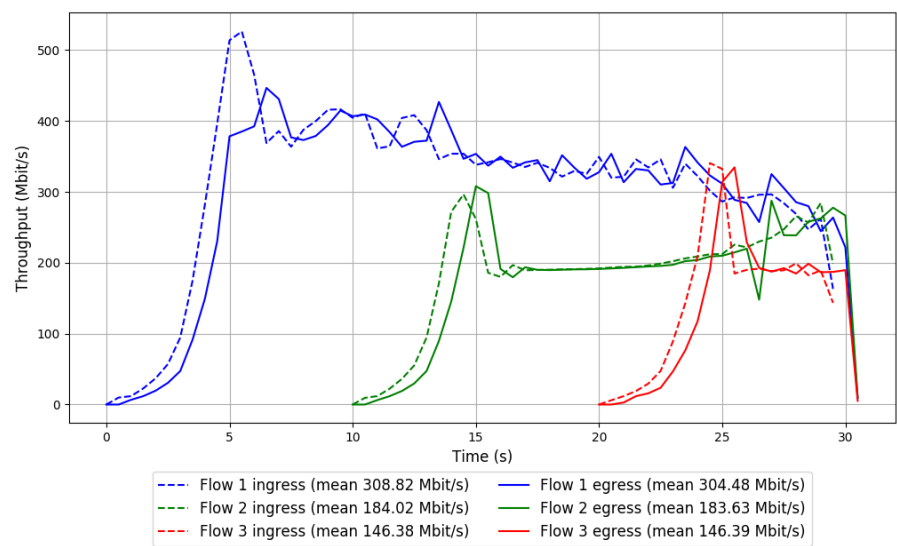


Run 5: Statistics of PCC-Expr

Start at: 2018-09-25 21:21:35  
End at: 2018-09-25 21:22:05  
Local clock offset: -0.156 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 474.89 Mbit/s  
95th percentile per-packet one-way delay: 212.862 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 304.48 Mbit/s  
95th percentile per-packet one-way delay: 221.944 ms  
Loss rate: 1.40%  
-- Flow 2:  
Average throughput: 183.63 Mbit/s  
95th percentile per-packet one-way delay: 140.747 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 146.39 Mbit/s  
95th percentile per-packet one-way delay: 160.470 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

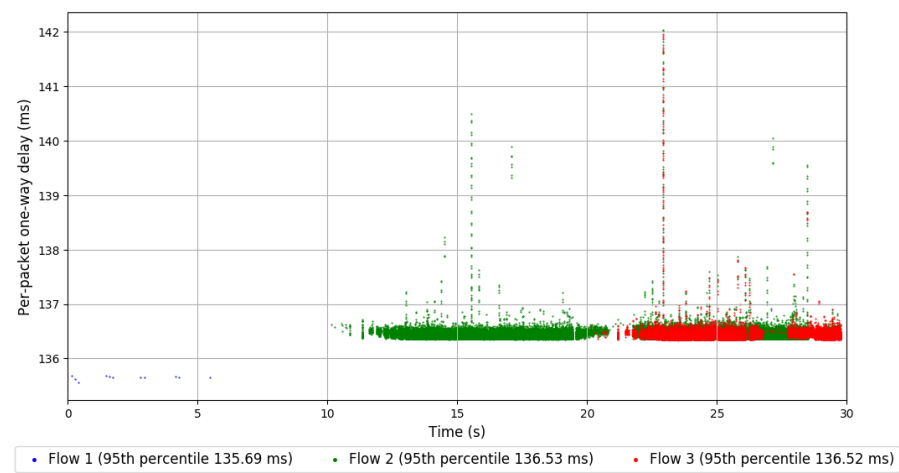
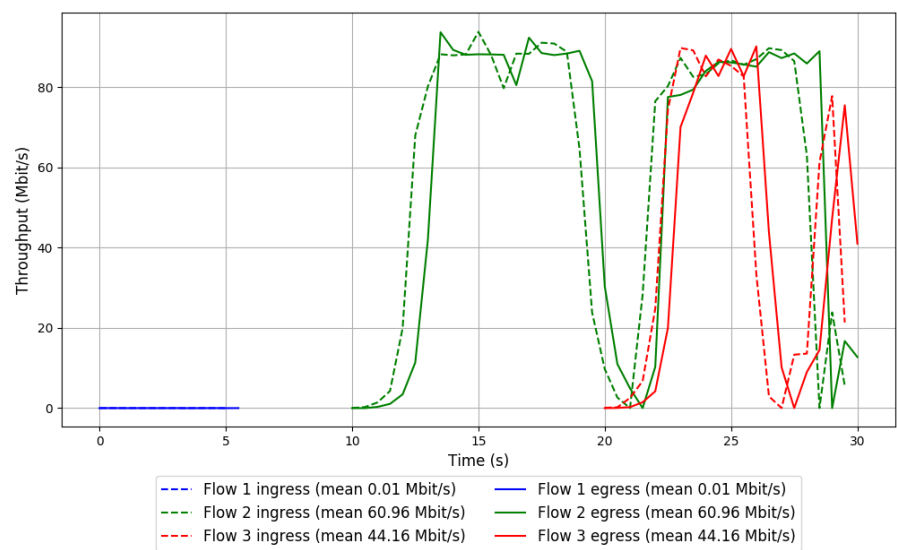


Run 1: Statistics of QUIC Cubic

Start at: 2018-09-25 19:05:58  
End at: 2018-09-25 19:06:28  
Local clock offset: -0.024 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.67 Mbit/s  
95th percentile per-packet one-way delay: 136.523 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 135.688 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.96 Mbit/s  
95th percentile per-packet one-way delay: 136.525 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 44.16 Mbit/s  
95th percentile per-packet one-way delay: 136.516 ms  
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link





Run 2: Statistics of QUIC Cubic

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

End at: 2018-09-25 19:41:39

Local clock offset: -0.084 ms

Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2018-09-25 23:50:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 112.25 Mbit/s

95th percentile per-packet one-way delay: 136.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 136.583 ms

Loss rate: 0.00%

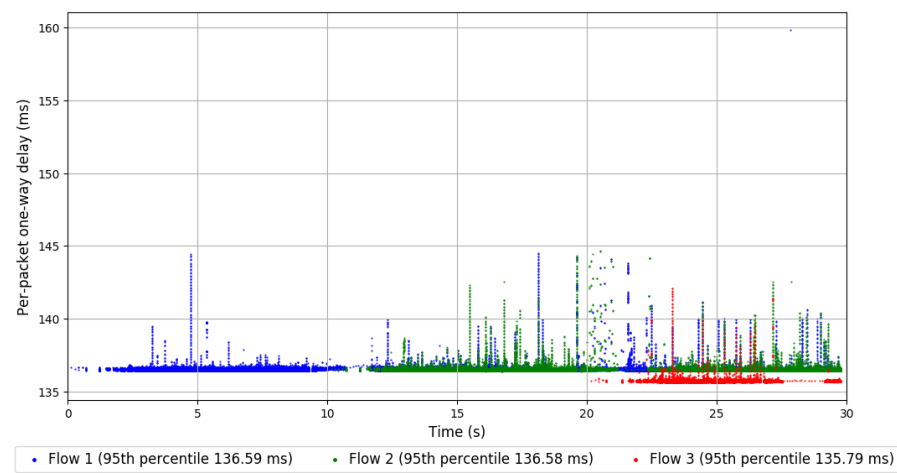
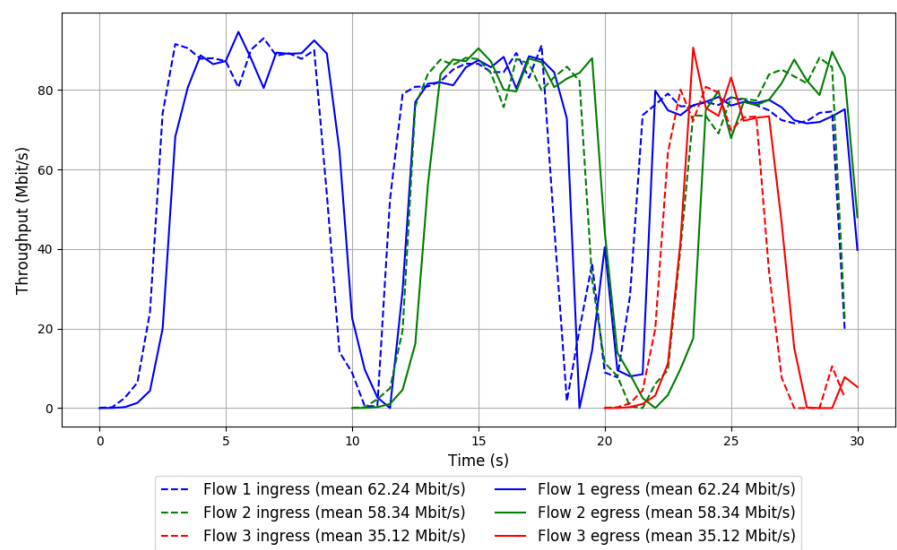
-- Flow 3:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 135.786 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

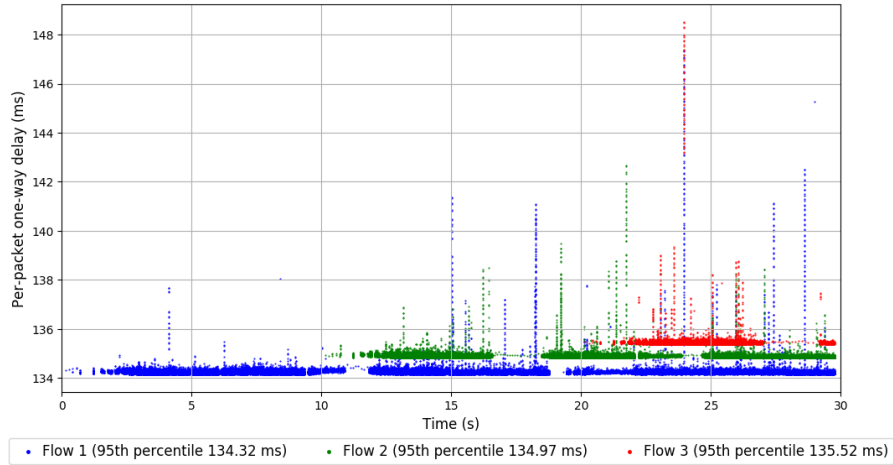
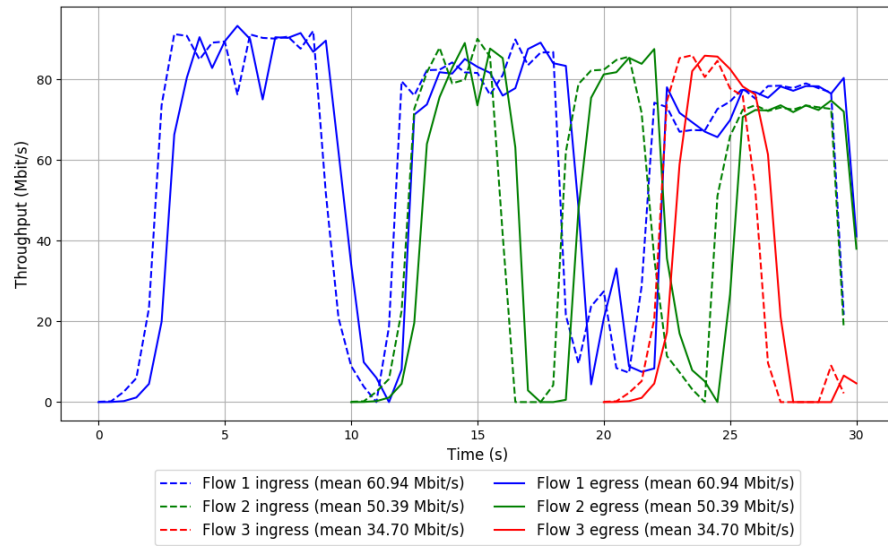


Run 3: Statistics of QUIC Cubic

Start at: 2018-09-25 20:16:48  
End at: 2018-09-25 20:17:18  
Local clock offset: -0.354 ms  
Remote clock offset: -0.337 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 105.55 Mbit/s  
95th percentile per-packet one-way delay: 135.436 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.94 Mbit/s  
95th percentile per-packet one-way delay: 134.322 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 50.39 Mbit/s  
95th percentile per-packet one-way delay: 134.965 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.70 Mbit/s  
95th percentile per-packet one-way delay: 135.521 ms  
Loss rate: 0.00%

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

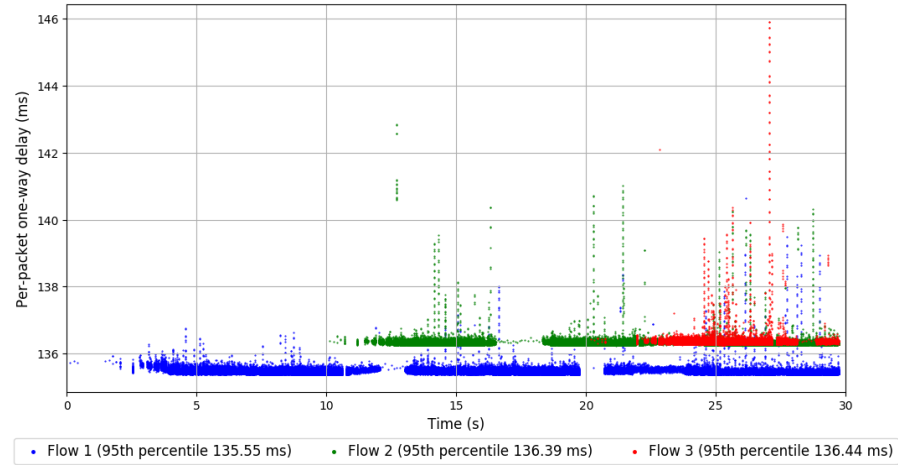
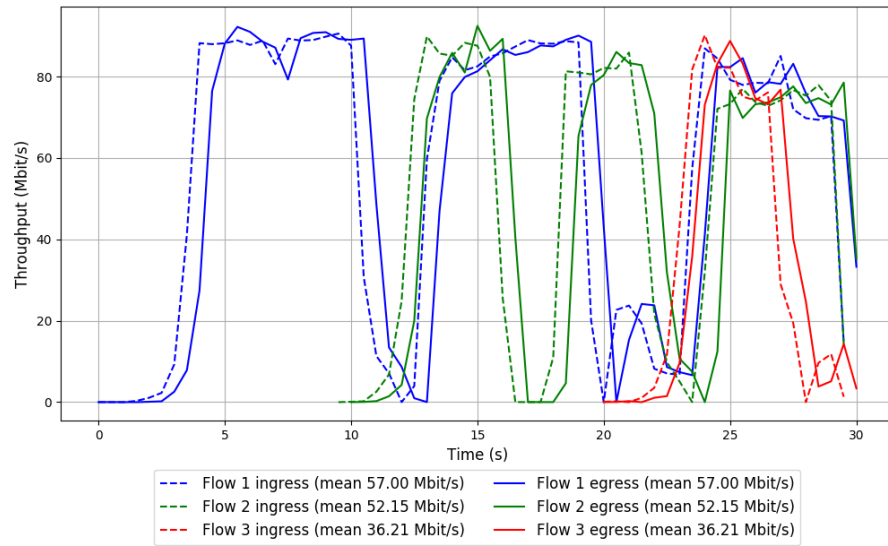


Run 4: Statistics of QUIC Cubic

Start at: 2018-09-25 20:52:27  
End at: 2018-09-25 20:52:57  
Local clock offset: -0.193 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 103.25 Mbit/s  
95th percentile per-packet one-way delay: 136.375 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.00 Mbit/s  
95th percentile per-packet one-way delay: 135.553 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 52.15 Mbit/s  
95th percentile per-packet one-way delay: 136.392 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 36.21 Mbit/s  
95th percentile per-packet one-way delay: 136.445 ms  
Loss rate: 0.00%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-09-25 21:27:54

End at: 2018-09-25 21:28:24

Local clock offset: -0.299 ms

Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2018-09-25 23:50:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.72 Mbit/s

95th percentile per-packet one-way delay: 136.231 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.77 Mbit/s

95th percentile per-packet one-way delay: 136.257 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 135.961 ms

Loss rate: 0.00%

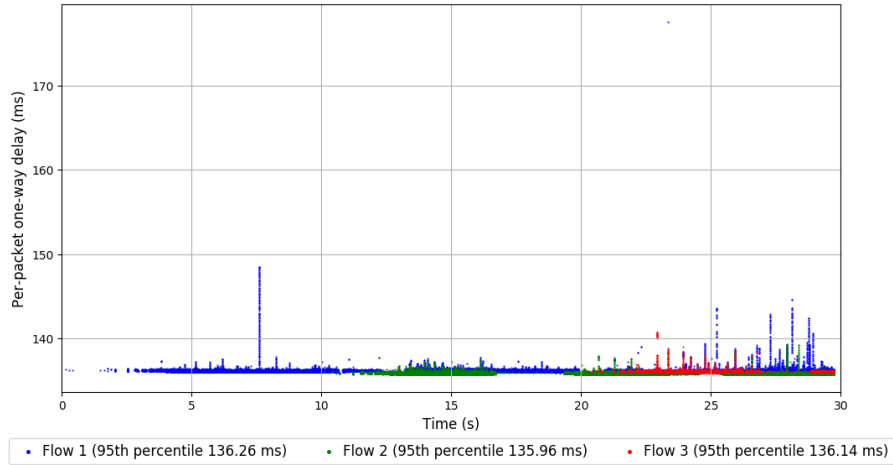
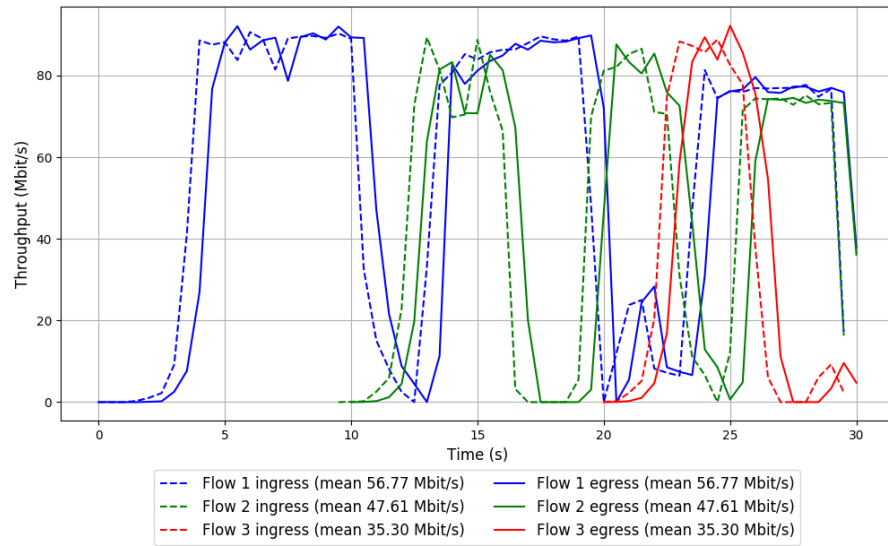
-- Flow 3:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 136.140 ms

Loss rate: 0.00%

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



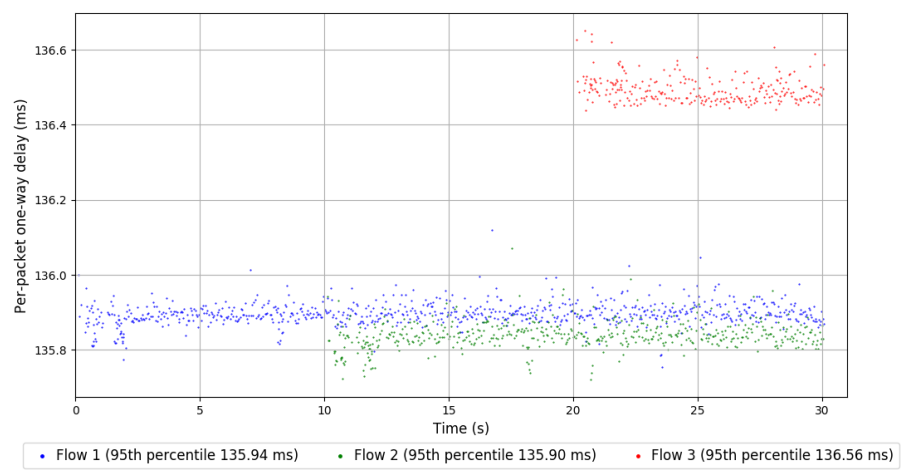
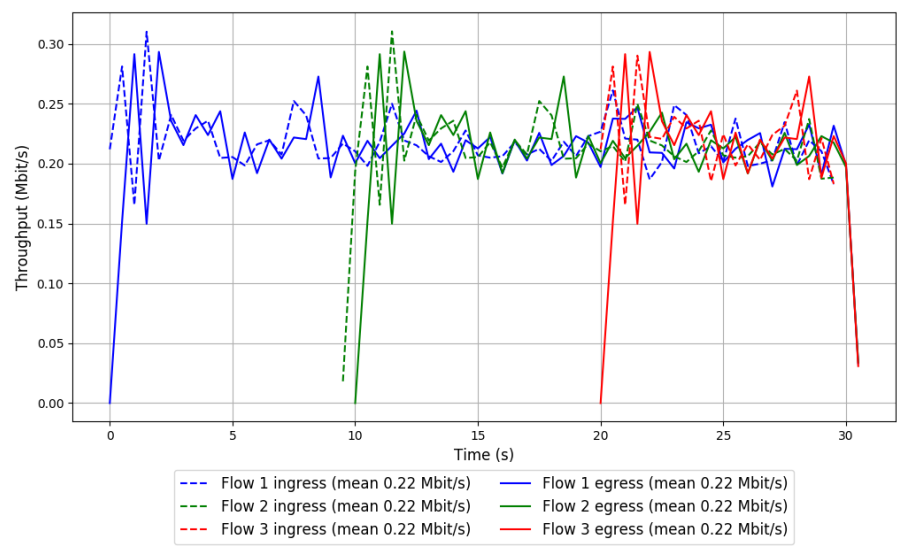


Run 1: Statistics of SReAM

Start at: 2018-09-25 18:56:47  
End at: 2018-09-25 18:57:17  
Local clock offset: -0.263 ms  
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.510 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.944 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.895 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.560 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

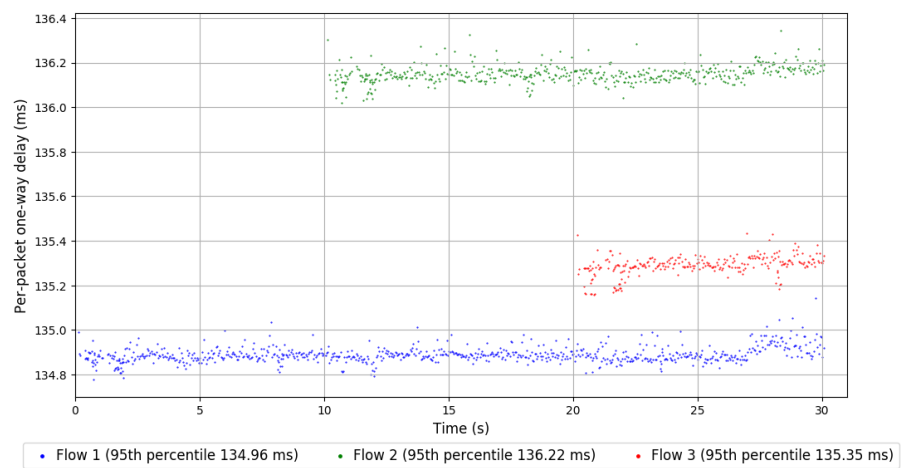
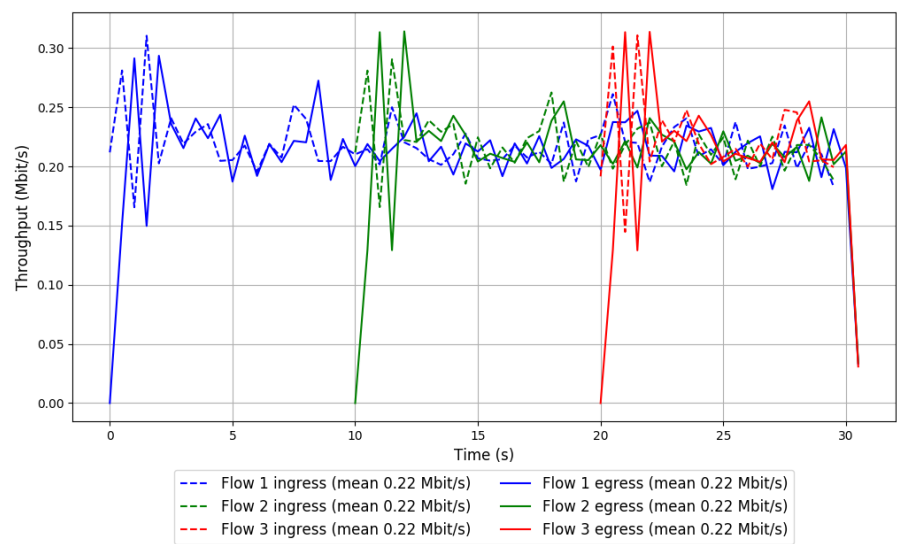


Run 2: Statistics of SReAM

Start at: 2018-09-25 19:32:03  
End at: 2018-09-25 19:32:33  
Local clock offset: -0.178 ms  
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.183 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.957 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.215 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.354 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

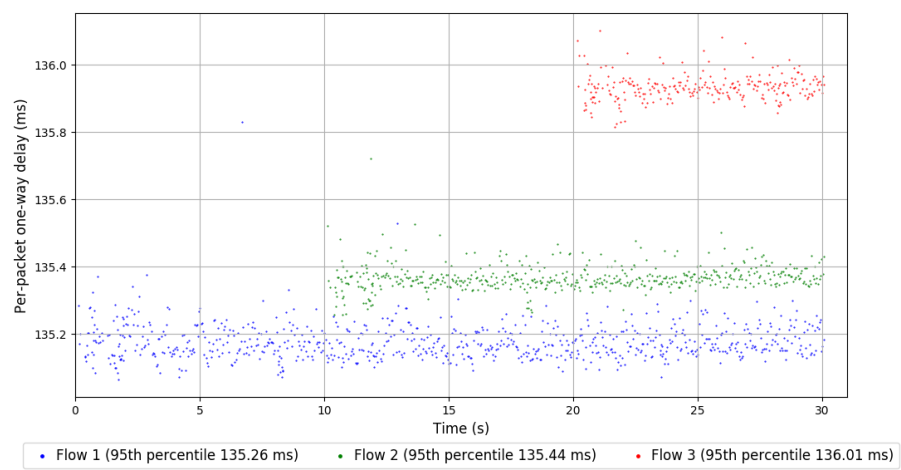
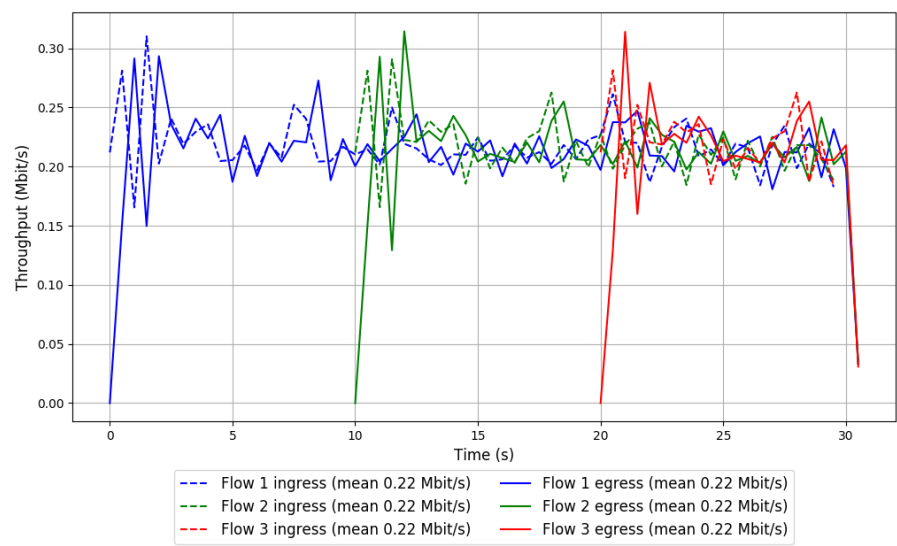


Run 3: Statistics of SReAM

Start at: 2018-09-25 20:07:36  
End at: 2018-09-25 20:08:06  
Local clock offset: -0.081 ms  
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 135.944 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.263 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.439 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.006 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

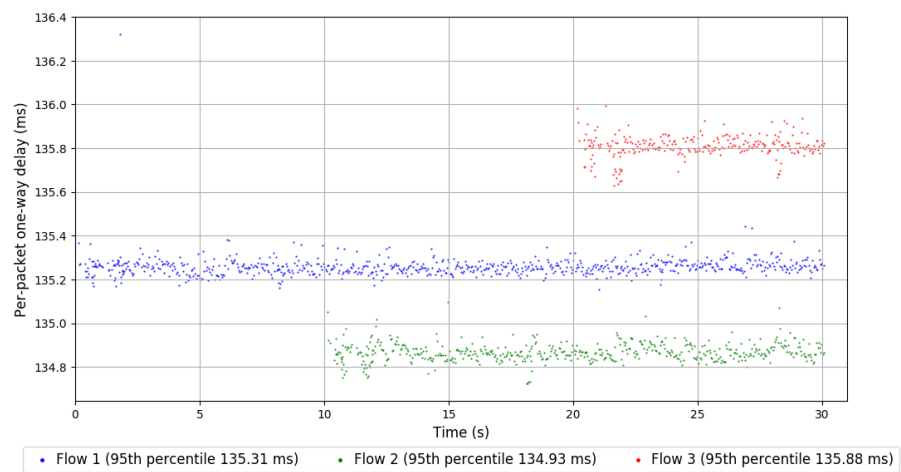
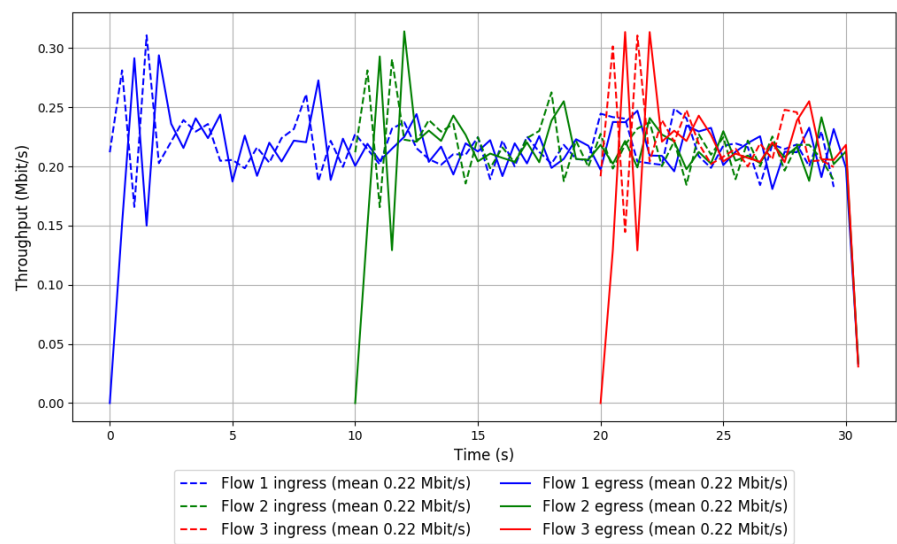


Run 4: Statistics of SReAM

Start at: 2018-09-25 20:43:12  
End at: 2018-09-25 20:43:42  
Local clock offset: -0.127 ms  
Remote clock offset: 0.019 ms

```
# Below is generated by plot.py at 2018-09-25 23:50:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 135.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.313 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.934 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.885 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



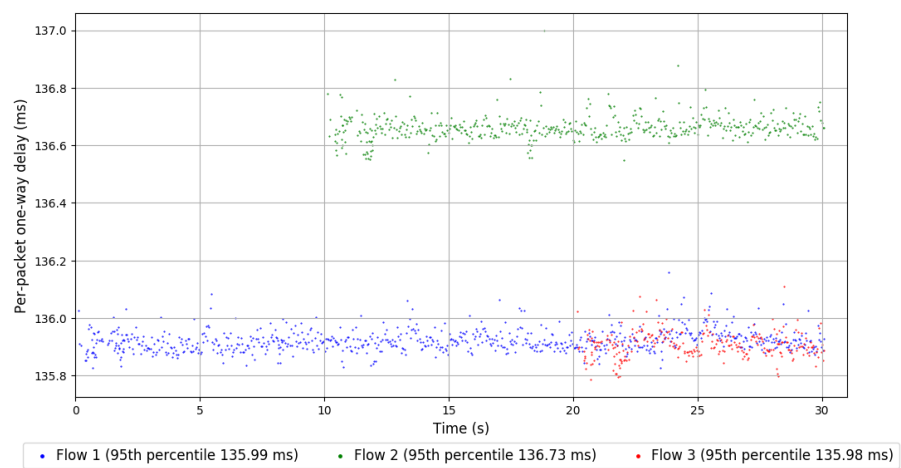
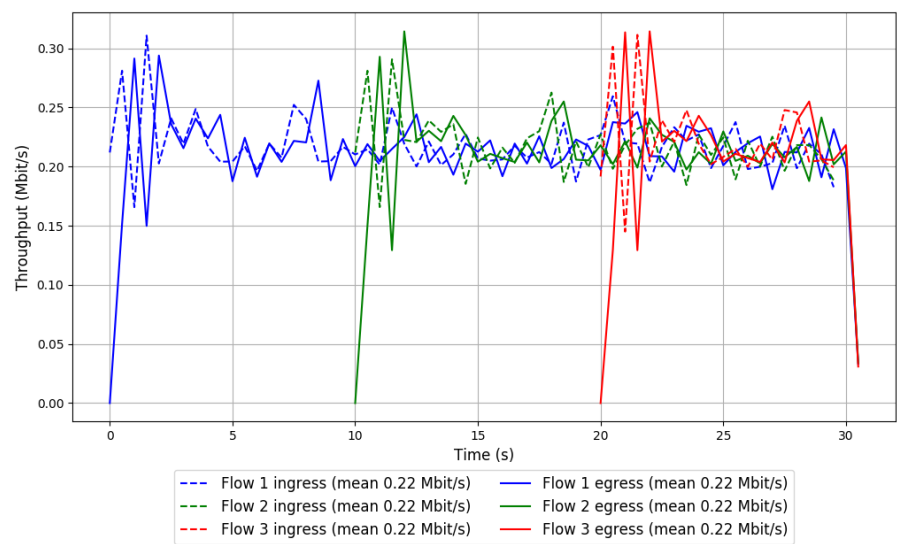


Run 5: Statistics of SReAM

Start at: 2018-09-25 21:18:36  
End at: 2018-09-25 21:19:06  
Local clock offset: -0.236 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-09-25 23:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.692 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.989 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.730 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.983 ms  
Loss rate: 0.00%

Run 5: Report of SCSReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-09-25 18:42:13

End at: 2018-09-25 18:42:43

Local clock offset: -0.305 ms

Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2018-09-25 23:50:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 136.215 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 0.00%

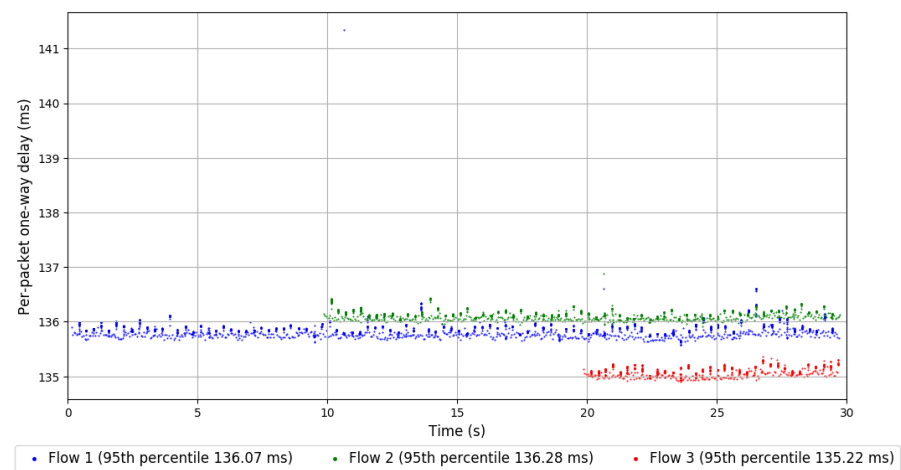
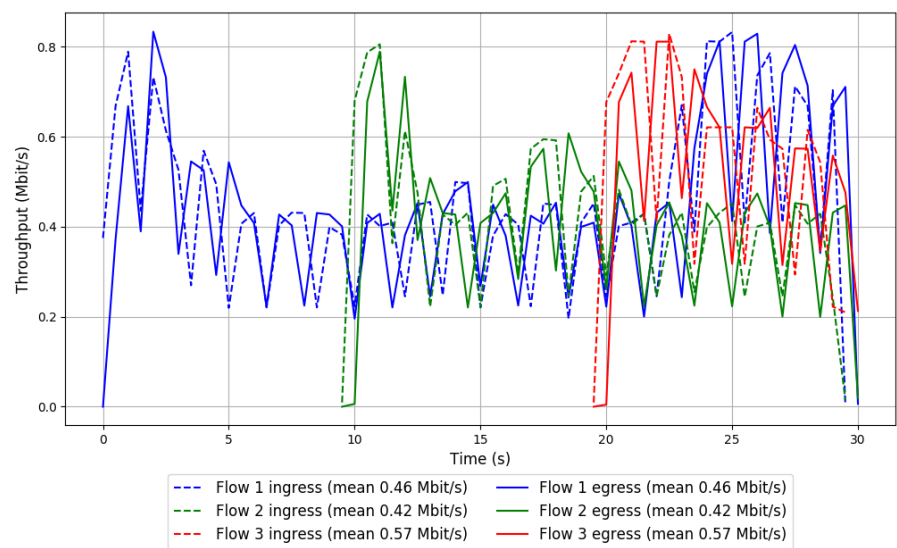
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 135.223 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

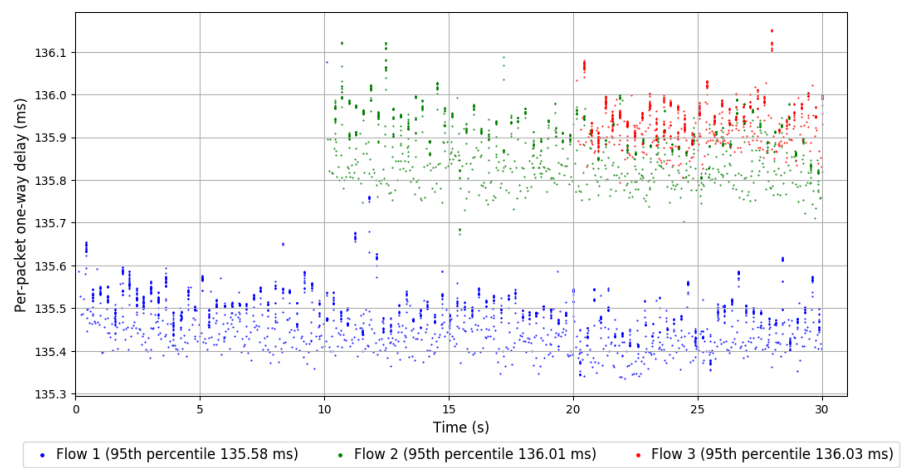
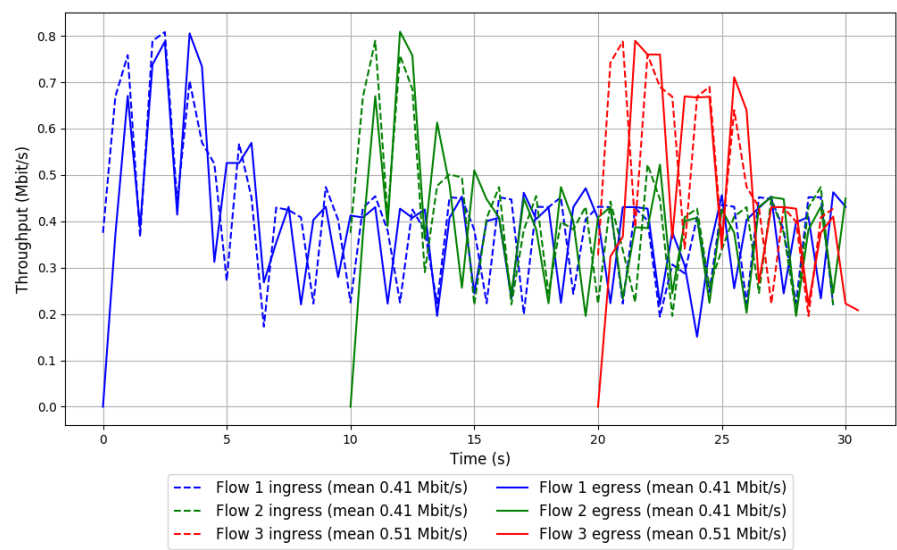


## Run 2: Statistics of Sprout

Start at: 2018-09-25 19:17:13  
End at: 2018-09-25 19:17:43  
Local clock offset: -0.057 ms  
Remote clock offset: -0.406 ms

```
# Below is generated by plot.py at 2018-09-25 23:50:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 135.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 135.582 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 136.028 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

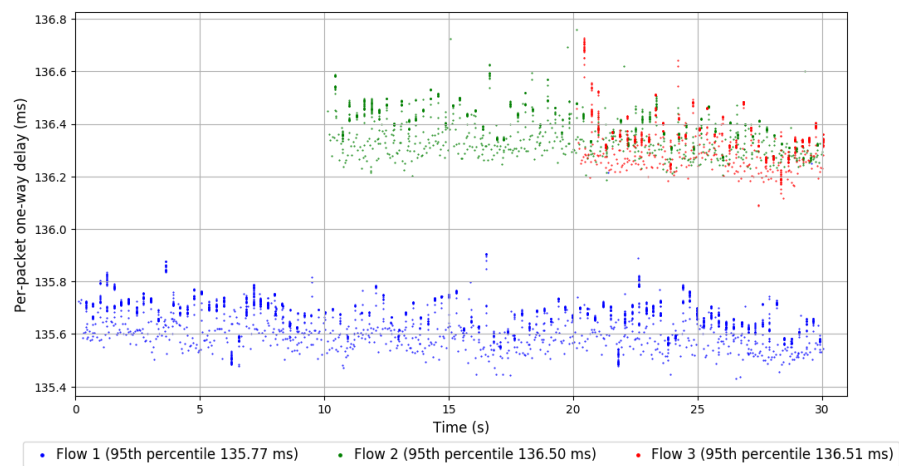
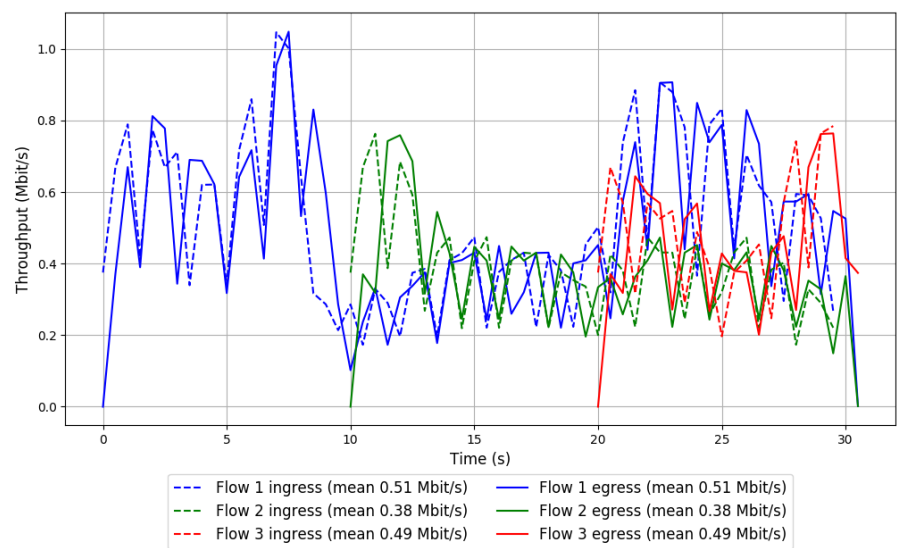


### Run 3: Statistics of Sprout

Start at: 2018-09-25 19:52:23  
End at: 2018-09-25 19:52:53  
Local clock offset: -0.155 ms  
Remote clock offset: -0.032 ms

```
# Below is generated by plot.py at 2018-09-25 23:50:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 136.474 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 135.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 136.510 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



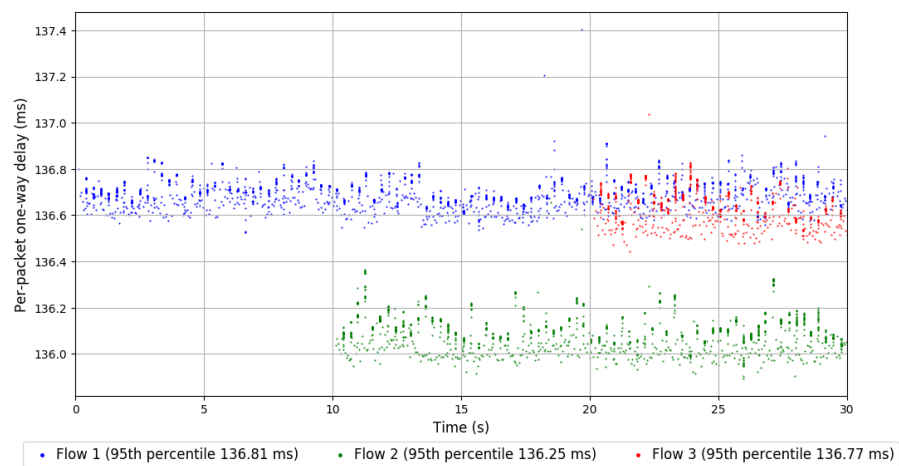
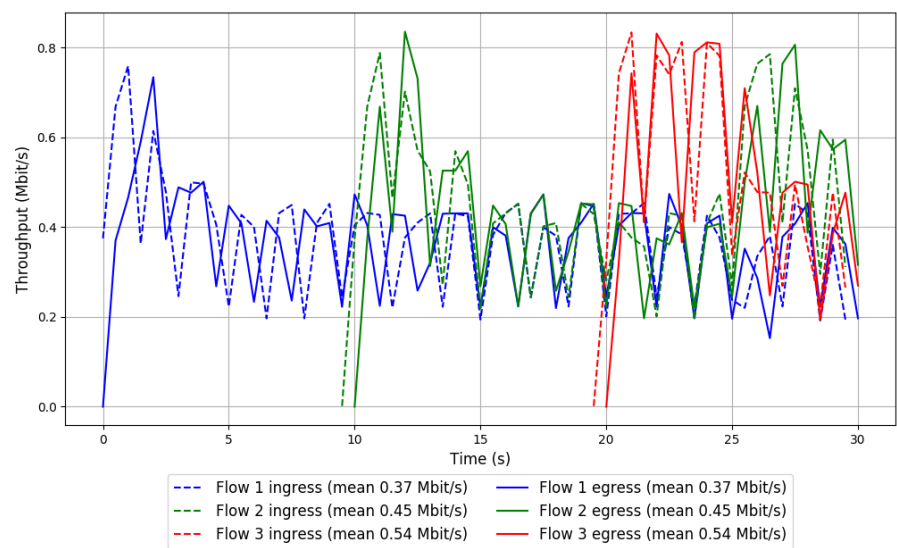


#### Run 4: Statistics of Sprout

Start at: 2018-09-25 20:28:23  
End at: 2018-09-25 20:28:53  
Local clock offset: -0.349 ms  
Remote clock offset: 0.063 ms

```
# Below is generated by plot.py at 2018-09-25 23:50:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 136.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 136.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 136.767 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

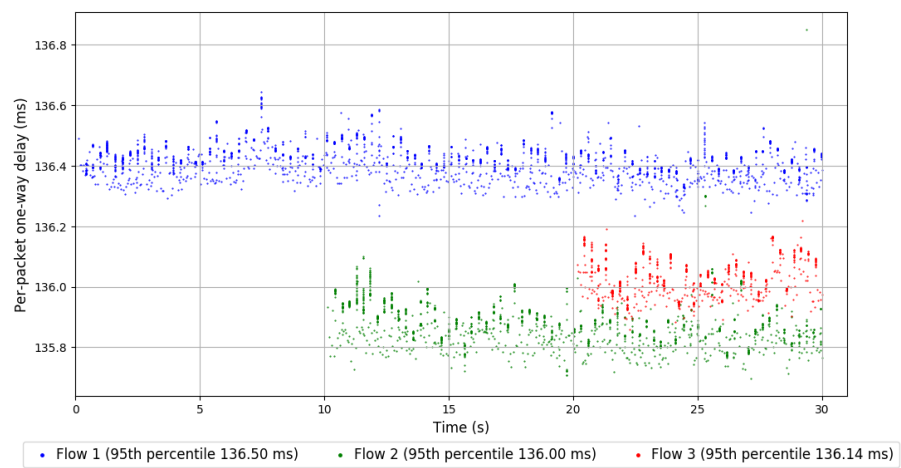
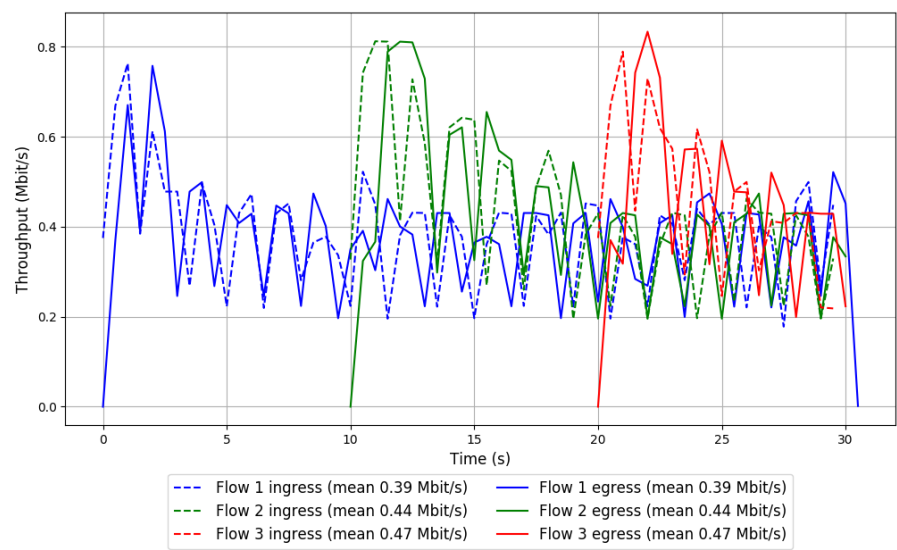


Run 5: Statistics of Sprout

Start at: 2018-09-25 21:03:55  
End at: 2018-09-25 21:04:25  
Local clock offset: -0.104 ms  
Remote clock offset: 0.026 ms

```
# Below is generated by plot.py at 2018-09-25 23:50:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 136.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.500 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 135.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 136.140 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

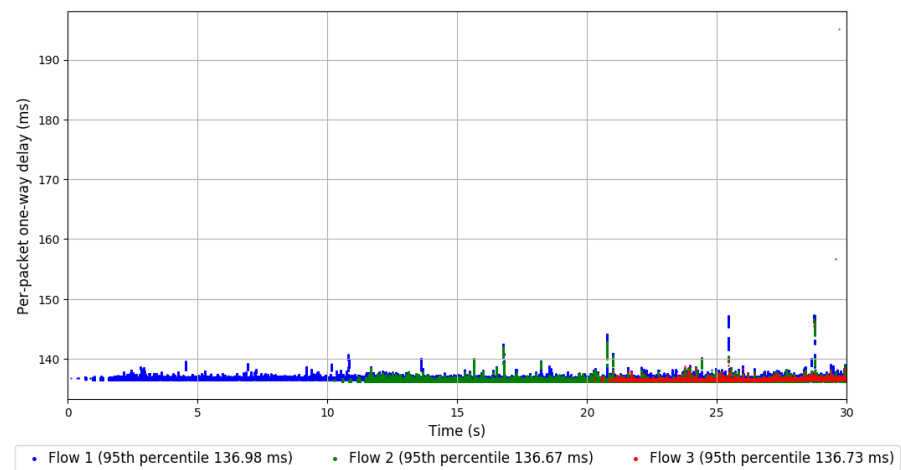
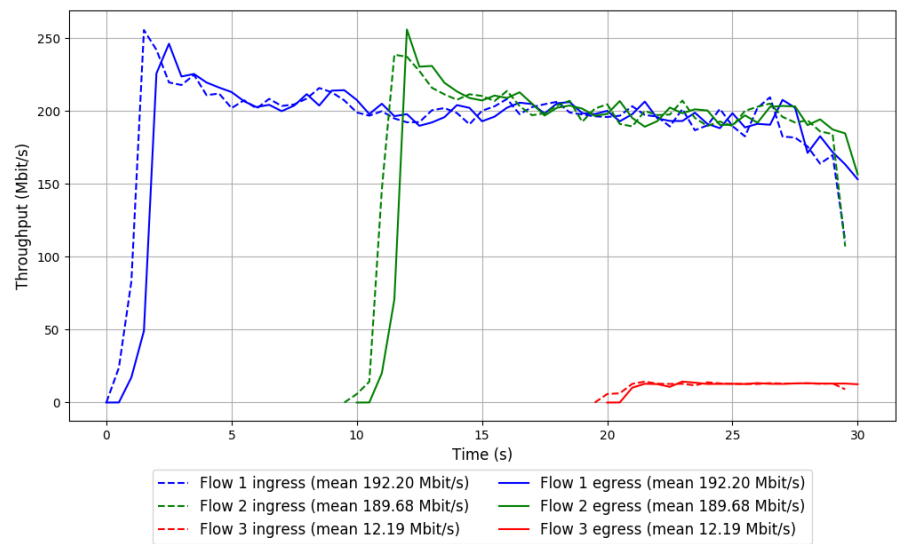


Run 1: Statistics of TaoVA-100x

Start at: 2018-09-25 18:52:36  
End at: 2018-09-25 18:53:06  
Local clock offset: -0.417 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-09-25 23:53:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 323.10 Mbit/s  
95th percentile per-packet one-way delay: 136.909 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 192.20 Mbit/s  
95th percentile per-packet one-way delay: 136.982 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 189.68 Mbit/s  
95th percentile per-packet one-way delay: 136.673 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.19 Mbit/s  
95th percentile per-packet one-way delay: 136.730 ms  
Loss rate: 0.00%

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

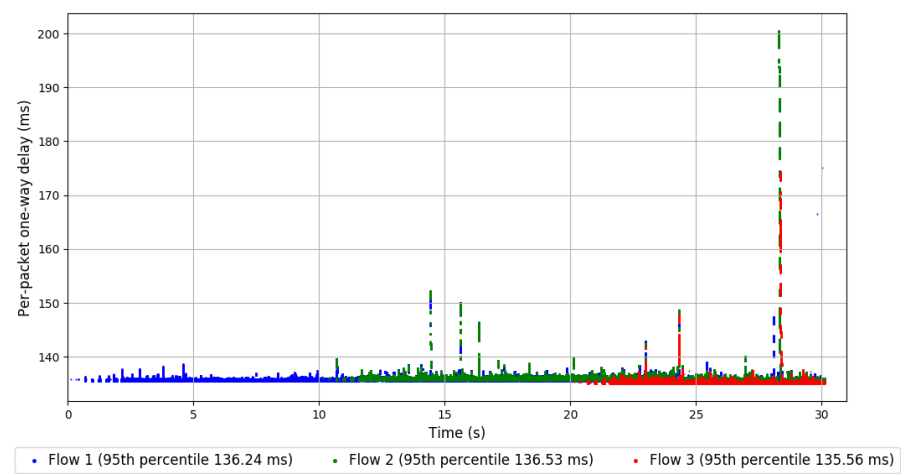
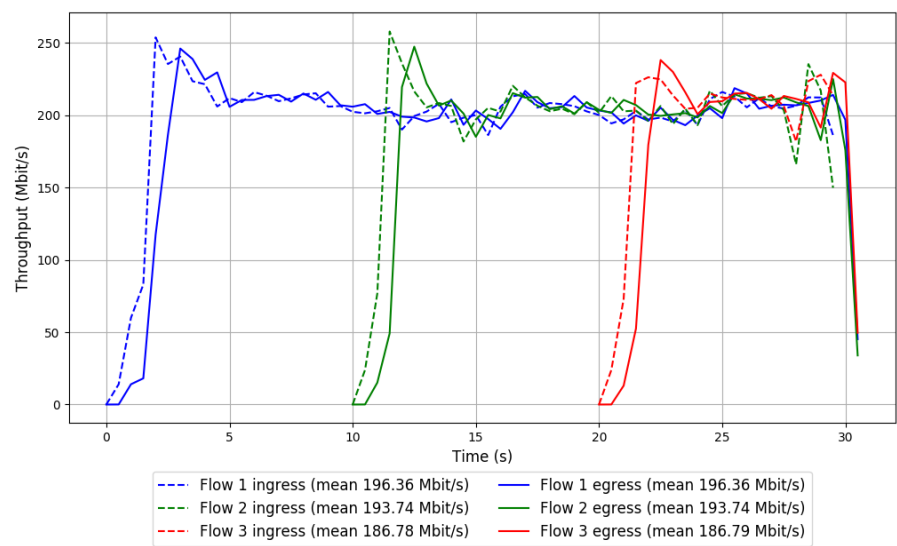


Run 2: Statistics of TaoVA-100x

Start at: 2018-09-25 19:27:44  
End at: 2018-09-25 19:28:14  
Local clock offset: -0.221 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-09-25 23:56:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 387.43 Mbit/s  
95th percentile per-packet one-way delay: 136.309 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 196.36 Mbit/s  
95th percentile per-packet one-way delay: 136.241 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 193.74 Mbit/s  
95th percentile per-packet one-way delay: 136.531 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 186.79 Mbit/s  
95th percentile per-packet one-way delay: 135.558 ms  
Loss rate: 0.00%

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



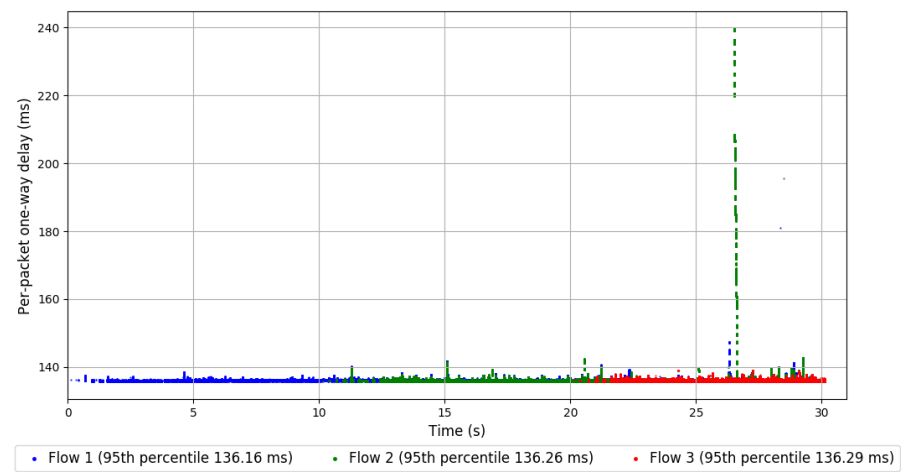
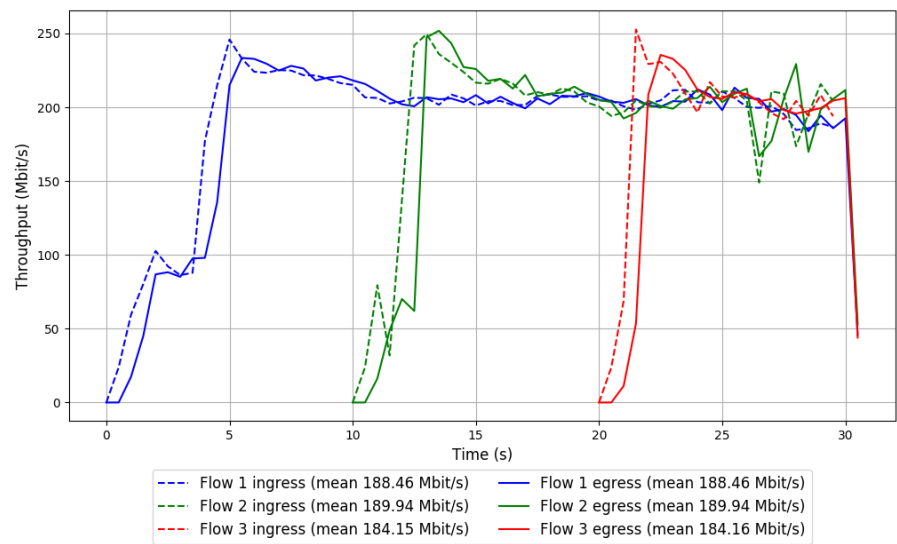


Run 3: Statistics of TaoVA-100x

Start at: 2018-09-25 20:03:15  
End at: 2018-09-25 20:03:45  
Local clock offset: -0.383 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-09-25 23:58:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 376.12 Mbit/s  
95th percentile per-packet one-way delay: 136.204 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.46 Mbit/s  
95th percentile per-packet one-way delay: 136.161 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 189.94 Mbit/s  
95th percentile per-packet one-way delay: 136.257 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 184.16 Mbit/s  
95th percentile per-packet one-way delay: 136.293 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-09-25 20:38:54

End at: 2018-09-25 20:39:24

Local clock offset: -0.235 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-09-25 23:58:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 362.21 Mbit/s

95th percentile per-packet one-way delay: 136.026 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.96 Mbit/s

95th percentile per-packet one-way delay: 136.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.59 Mbit/s

95th percentile per-packet one-way delay: 135.865 ms

Loss rate: 0.00%

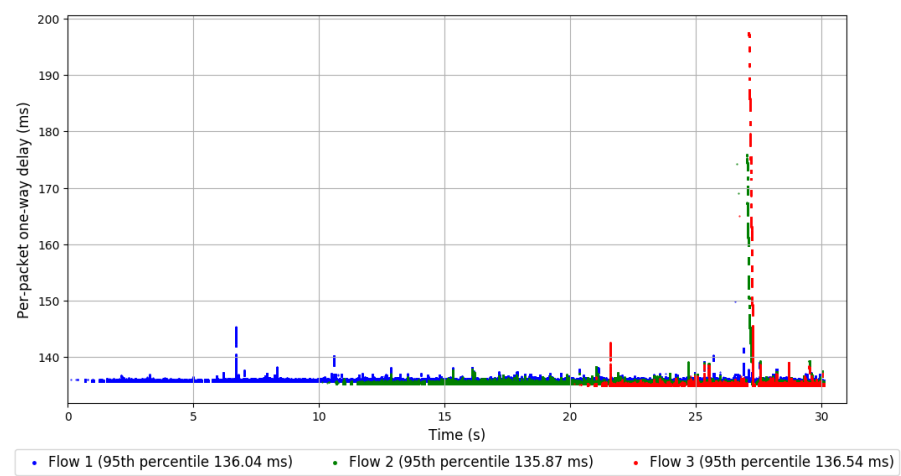
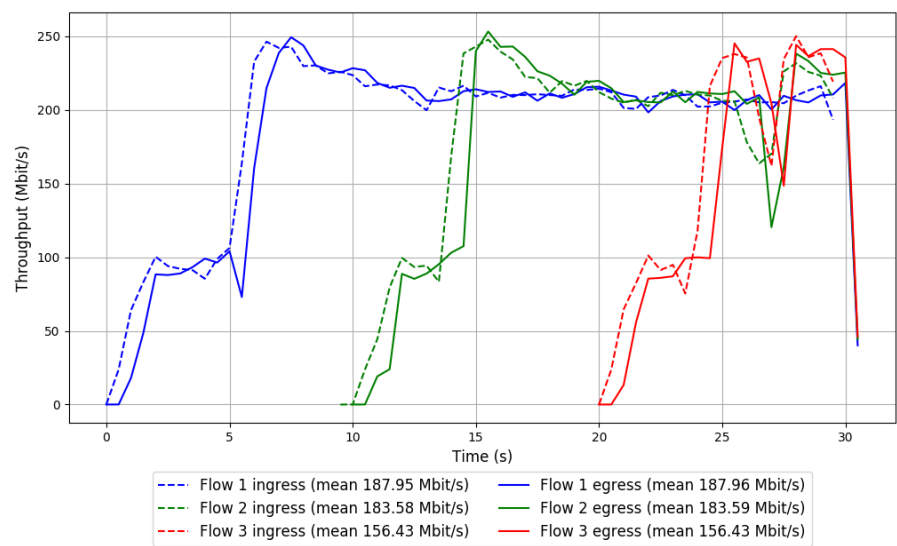
-- Flow 3:

Average throughput: 156.43 Mbit/s

95th percentile per-packet one-way delay: 136.542 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-09-25 21:14:18

End at: 2018-09-25 21:14:48

Local clock offset: -0.353 ms

Remote clock offset: 0.396 ms

# Below is generated by plot.py at 2018-09-25 23:59:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 379.53 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.35 Mbit/s

95th percentile per-packet one-way delay: 136.542 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.92 Mbit/s

95th percentile per-packet one-way delay: 137.216 ms

Loss rate: 0.00%

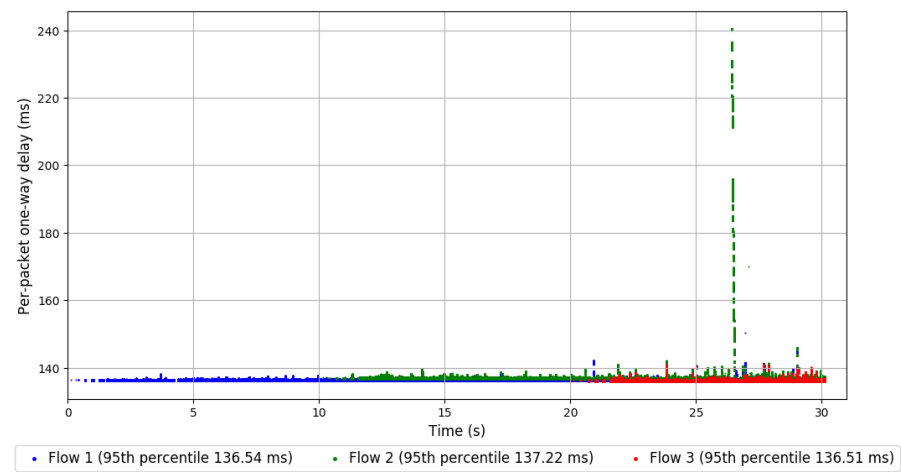
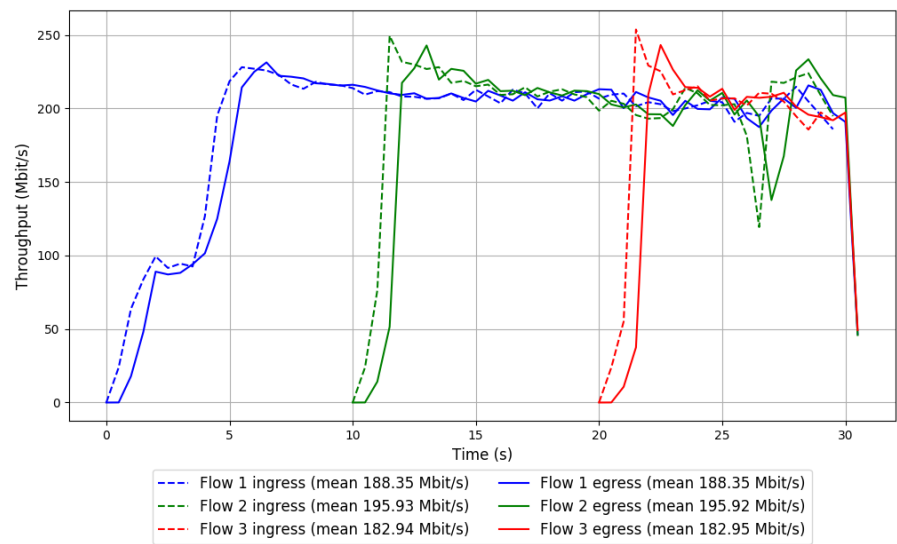
-- Flow 3:

Average throughput: 182.95 Mbit/s

95th percentile per-packet one-way delay: 136.507 ms

Loss rate: 0.00%

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

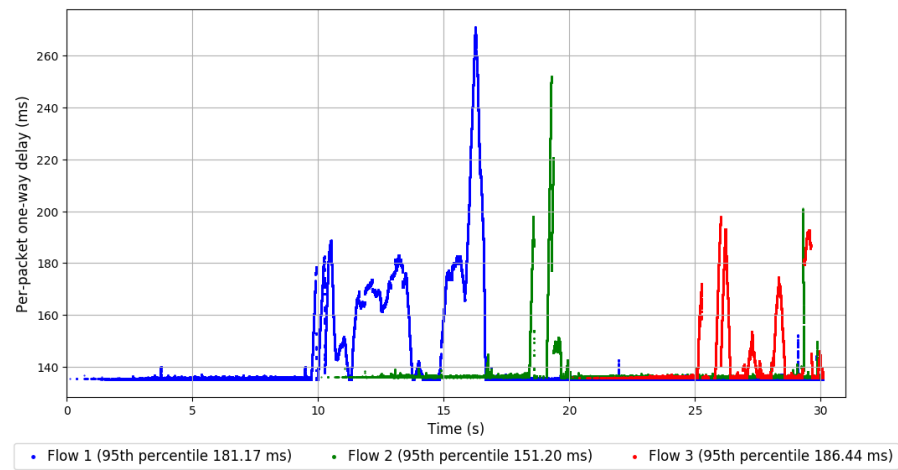
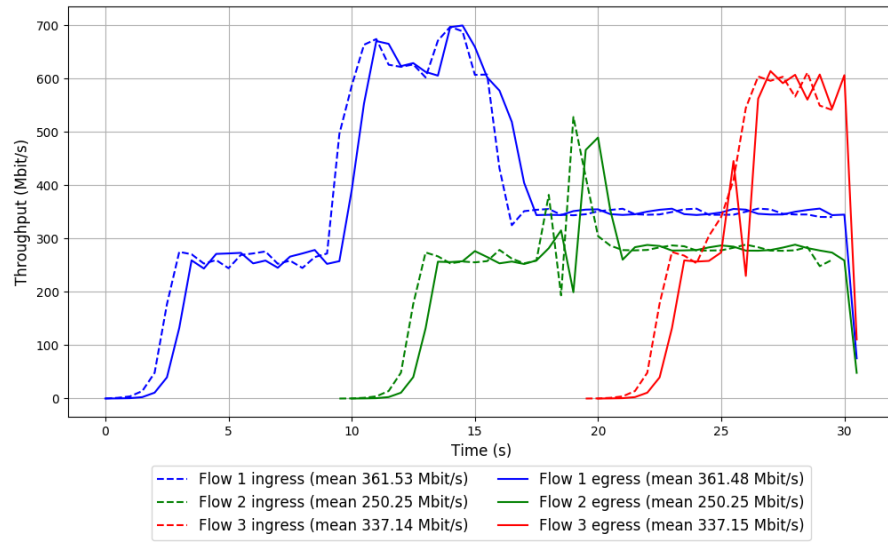


Run 1: Statistics of TCP Vegas

Start at: 2018-09-25 18:43:31  
End at: 2018-09-25 18:44:01  
Local clock offset: -0.387 ms  
Remote clock offset: -0.527 ms

# Below is generated by plot.py at 2018-09-26 00:00:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 640.19 Mbit/s  
95th percentile per-packet one-way delay: 180.949 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 361.48 Mbit/s  
95th percentile per-packet one-way delay: 181.172 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 250.25 Mbit/s  
95th percentile per-packet one-way delay: 151.197 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 337.15 Mbit/s  
95th percentile per-packet one-way delay: 186.438 ms  
Loss rate: 0.01%

# Run 1: Report of TCP Vegas — Data Link



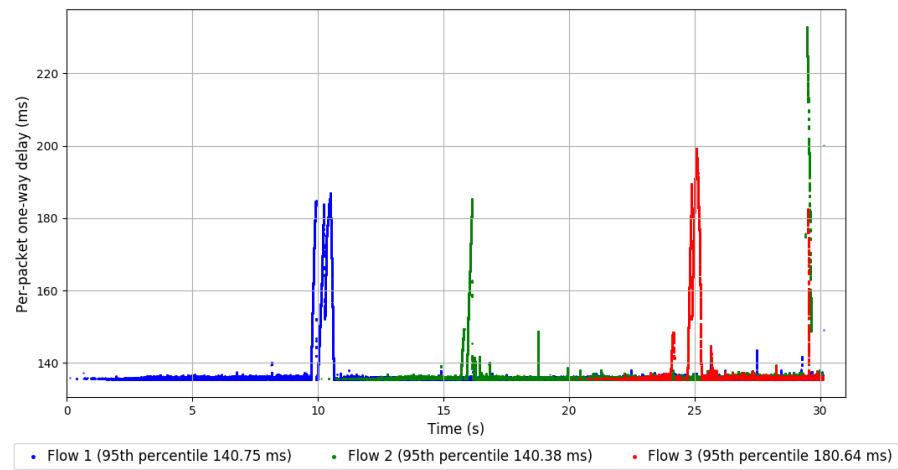
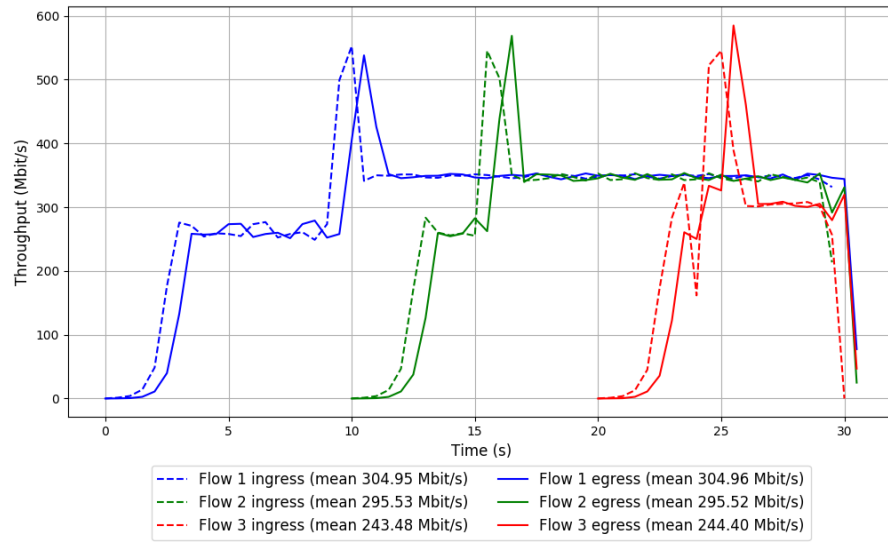


Run 2: Statistics of TCP Vegas

Start at: 2018-09-25 19:18:31  
End at: 2018-09-25 19:19:01  
Local clock offset: -0.193 ms  
Remote clock offset: -0.344 ms

# Below is generated by plot.py at 2018-09-26 00:00:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 582.88 Mbit/s  
95th percentile per-packet one-way delay: 148.821 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 304.96 Mbit/s  
95th percentile per-packet one-way delay: 140.748 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 295.52 Mbit/s  
95th percentile per-packet one-way delay: 140.380 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 244.40 Mbit/s  
95th percentile per-packet one-way delay: 180.641 ms  
Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-09-25 19:53:41

End at: 2018-09-25 19:54:11

Local clock offset: -0.237 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-09-26 00:08:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 864.90 Mbit/s

95th percentile per-packet one-way delay: 185.422 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 516.31 Mbit/s

95th percentile per-packet one-way delay: 192.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 396.55 Mbit/s

95th percentile per-packet one-way delay: 140.928 ms

Loss rate: 0.00%

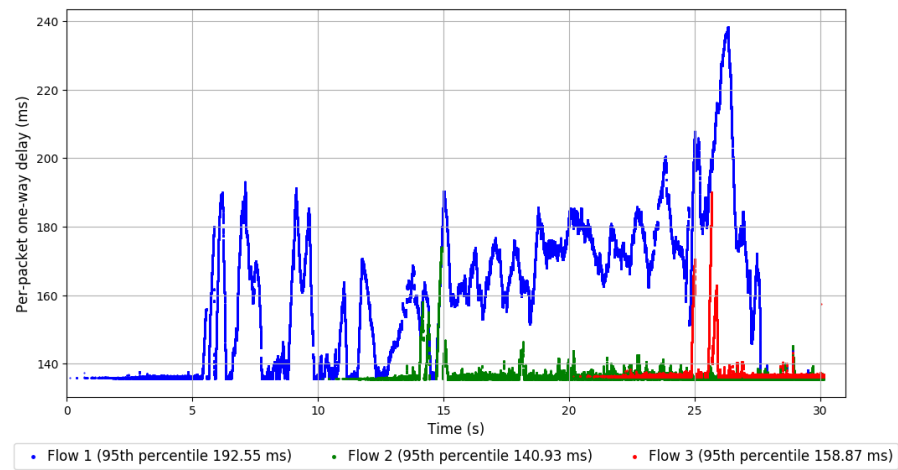
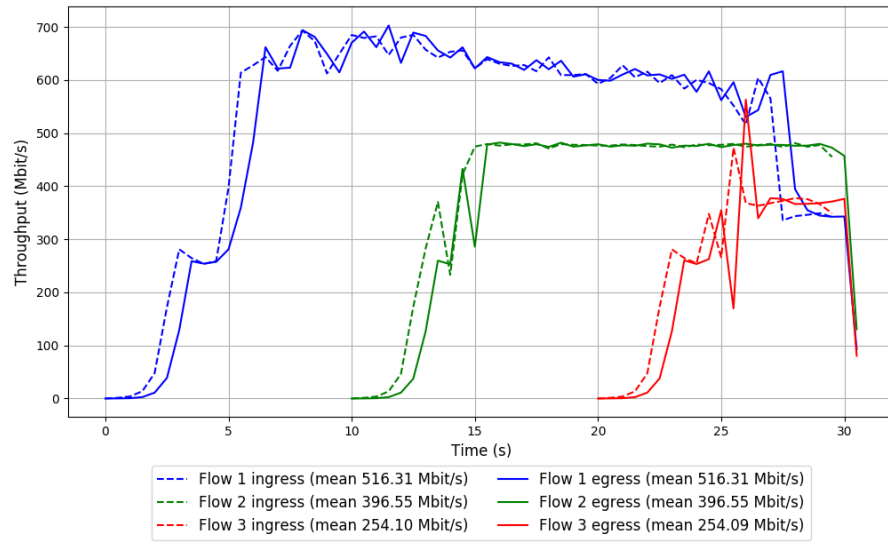
-- Flow 3:

Average throughput: 254.09 Mbit/s

95th percentile per-packet one-way delay: 158.873 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-09-25 20:29:41

End at: 2018-09-25 20:30:11

Local clock offset: -0.254 ms

Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2018-09-26 00:08:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 536.90 Mbit/s

95th percentile per-packet one-way delay: 137.733 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 318.54 Mbit/s

95th percentile per-packet one-way delay: 136.226 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 230.47 Mbit/s

95th percentile per-packet one-way delay: 138.298 ms

Loss rate: 0.00%

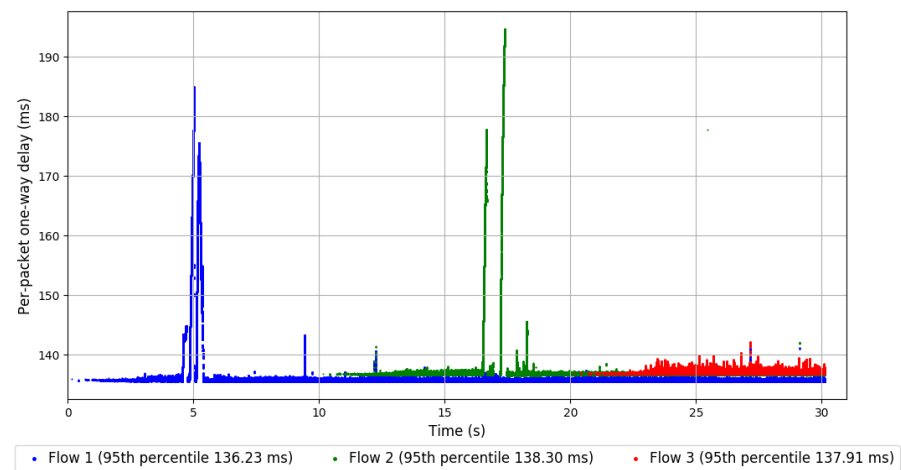
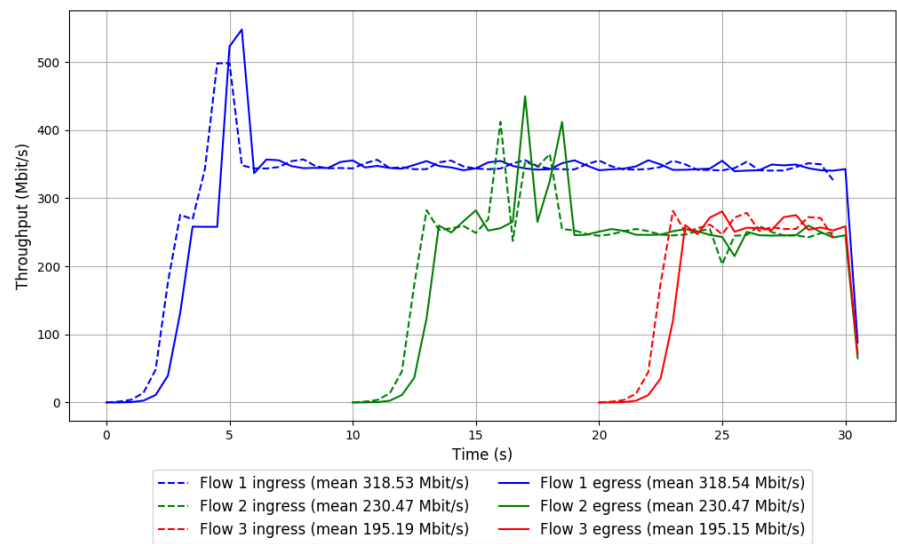
-- Flow 3:

Average throughput: 195.15 Mbit/s

95th percentile per-packet one-way delay: 137.910 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-09-25 21:05:13

End at: 2018-09-25 21:05:43

Local clock offset: -0.353 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-09-26 00:08:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 575.41 Mbit/s

95th percentile per-packet one-way delay: 185.330 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 227.08 Mbit/s

95th percentile per-packet one-way delay: 177.568 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 399.60 Mbit/s

95th percentile per-packet one-way delay: 181.163 ms

Loss rate: 0.00%

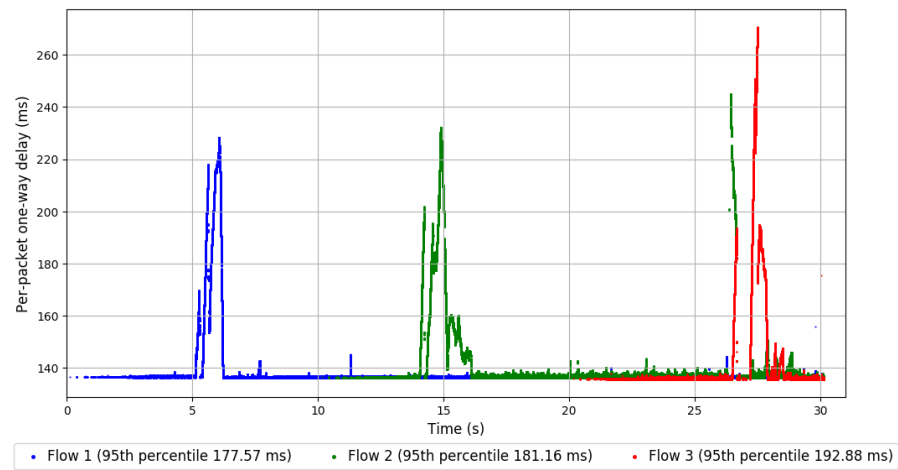
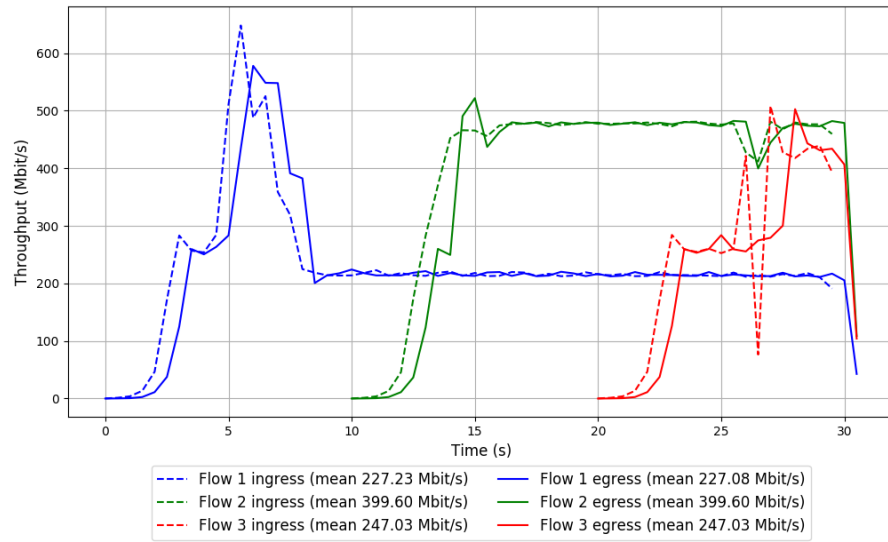
-- Flow 3:

Average throughput: 247.03 Mbit/s

95th percentile per-packet one-way delay: 192.875 ms

Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2018-09-25 18:58:04

End at: 2018-09-25 18:58:34

Local clock offset: -0.298 ms

Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2018-09-26 00:08:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 189.09 Mbit/s

95th percentile per-packet one-way delay: 294.102 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 146.81 Mbit/s

95th percentile per-packet one-way delay: 169.802 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 321.212 ms

Loss rate: 10.62%

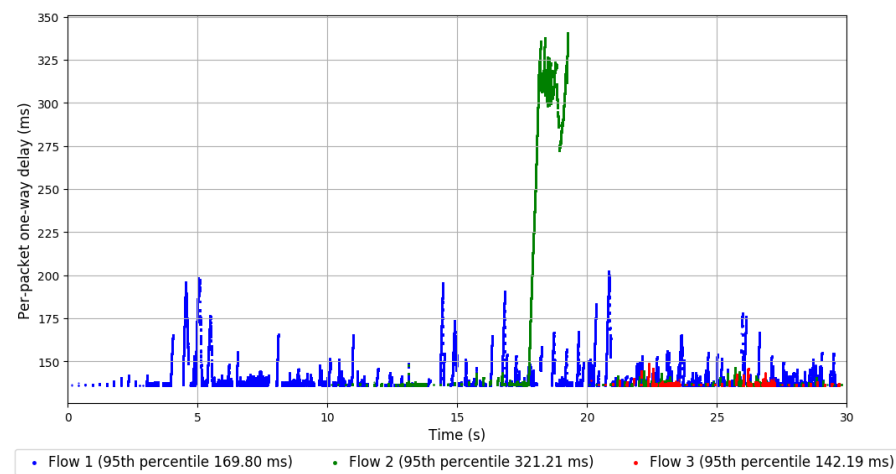
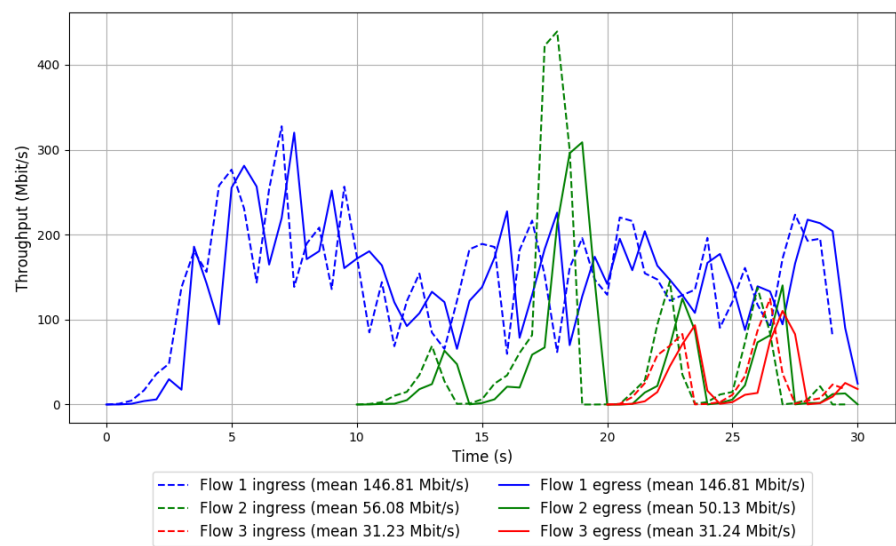
-- Flow 3:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 142.194 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

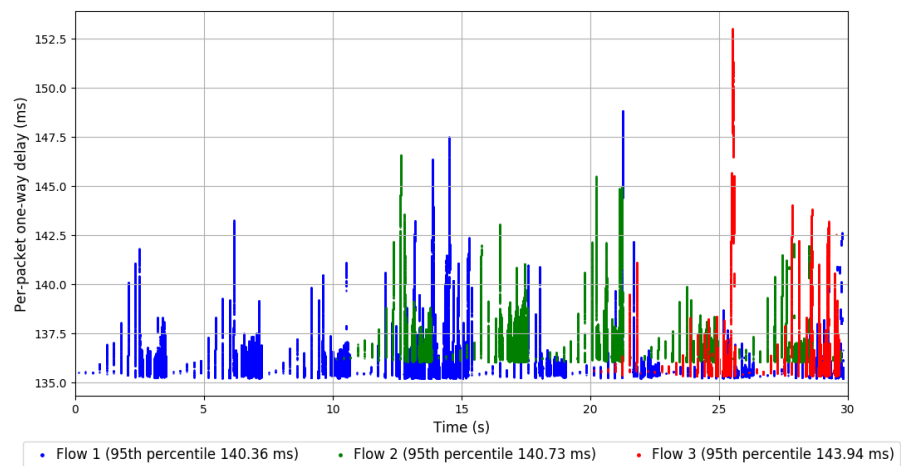
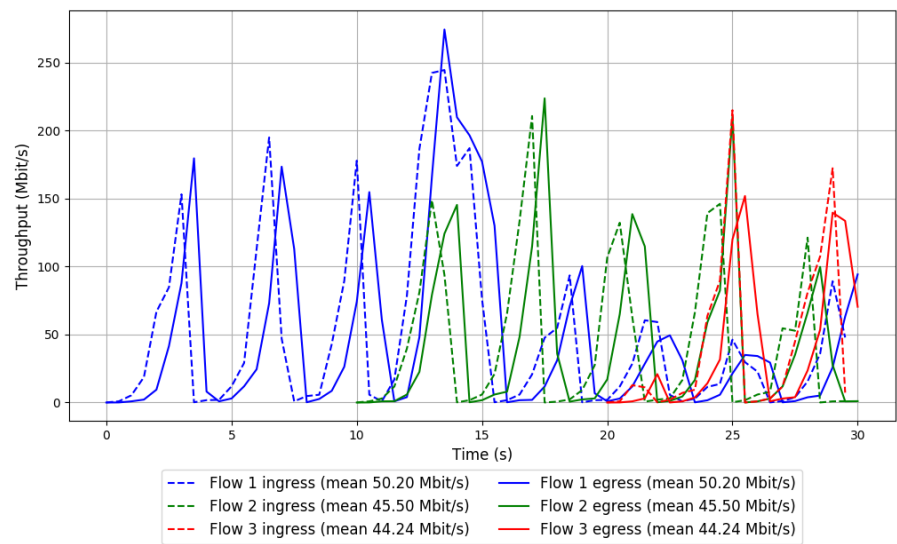


Run 2: Statistics of Verus

Start at: 2018-09-25 19:33:20  
End at: 2018-09-25 19:33:50  
Local clock offset: -0.039 ms  
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2018-09-26 00:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.35 Mbit/s  
95th percentile per-packet one-way delay: 141.208 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.20 Mbit/s  
95th percentile per-packet one-way delay: 140.364 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 45.50 Mbit/s  
95th percentile per-packet one-way delay: 140.728 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 44.24 Mbit/s  
95th percentile per-packet one-way delay: 143.945 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-09-25 20:08:53

End at: 2018-09-25 20:09:23

Local clock offset: -0.275 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-09-26 00:08:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 219.73 Mbit/s

95th percentile per-packet one-way delay: 277.805 ms

Loss rate: 5.40%

-- Flow 1:

Average throughput: 183.41 Mbit/s

95th percentile per-packet one-way delay: 280.149 ms

Loss rate: 6.41%

-- Flow 2:

Average throughput: 38.96 Mbit/s

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

Loss rate: 0.00%

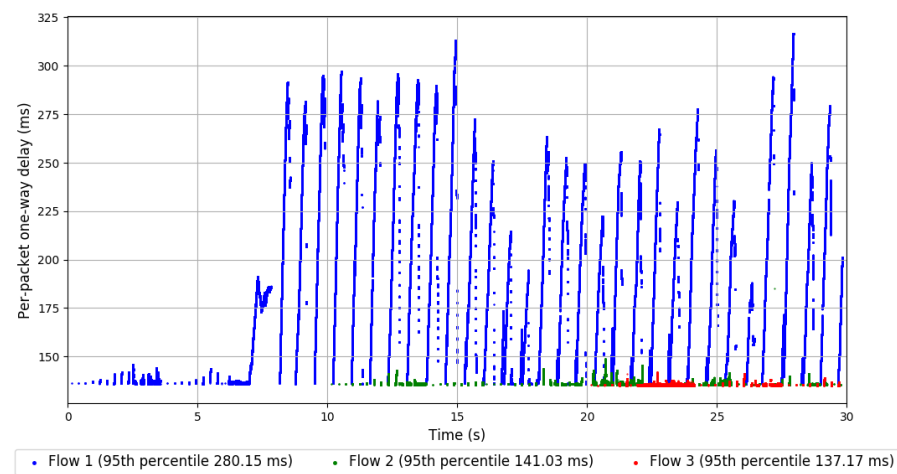
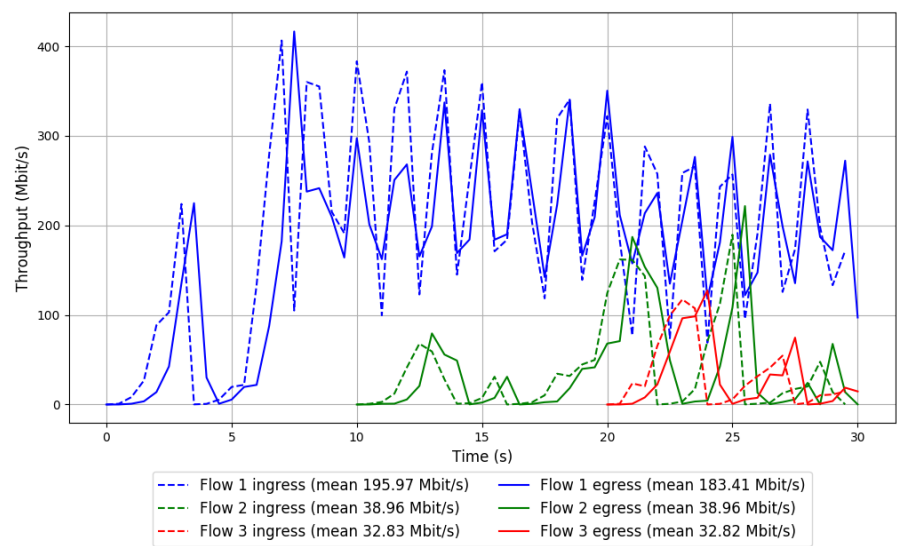
-- Flow 3:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-09-25 20:44:30

End at: 2018-09-25 20:45:00

Local clock offset: -0.06 ms

Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2018-09-26 00:09:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 223.51 Mbit/s

95th percentile per-packet one-way delay: 268.436 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 157.40 Mbit/s

95th percentile per-packet one-way delay: 248.405 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 137.914 ms

Loss rate: 0.00%

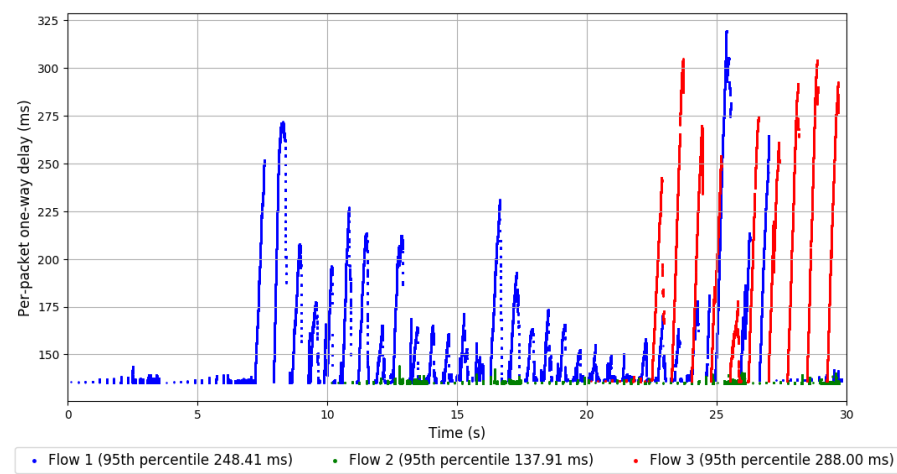
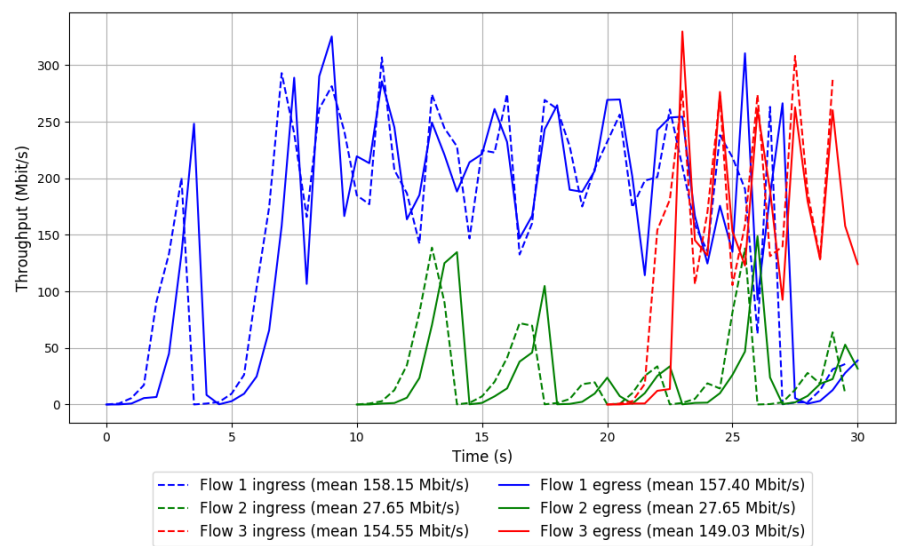
-- Flow 3:

Average throughput: 149.03 Mbit/s

95th percentile per-packet one-way delay: 287.995 ms

Loss rate: 2.13%

Run 4: Report of Verus — Data Link



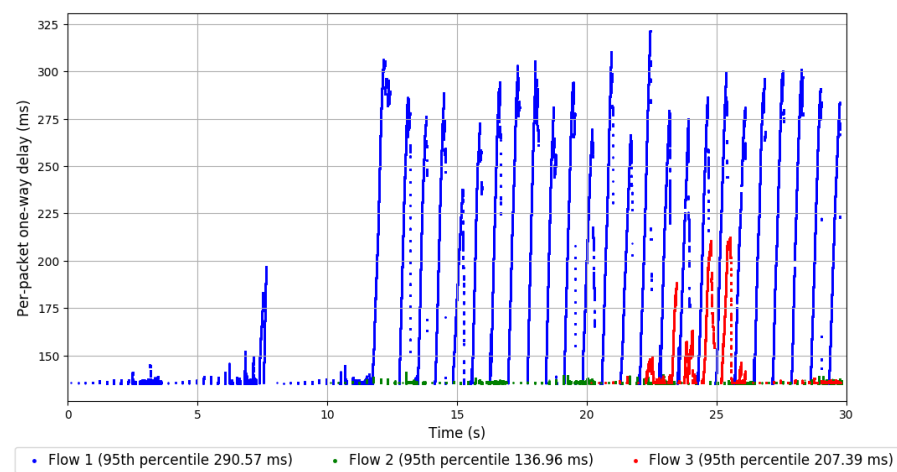
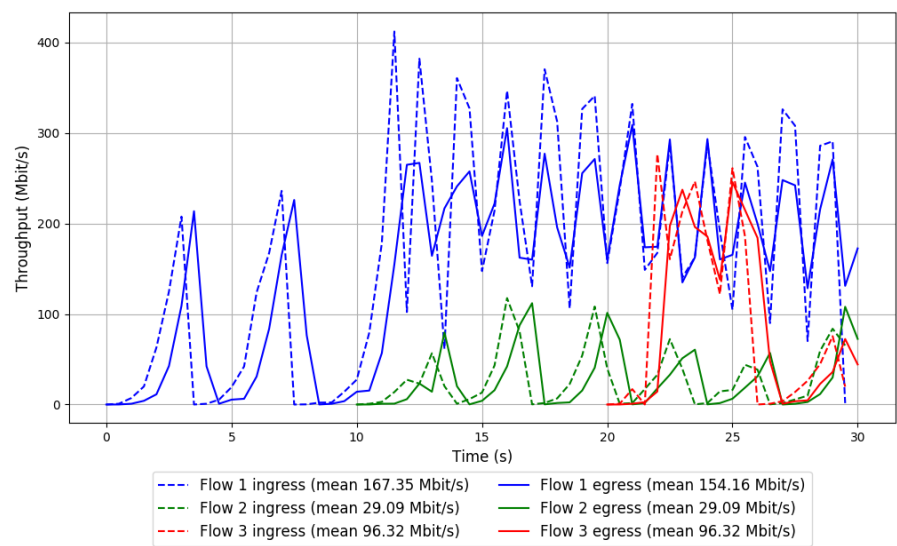


Run 5: Statistics of Verus

Start at: 2018-09-25 21:19:53  
End at: 2018-09-25 21:20:23  
Local clock offset: -0.001 ms  
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-09-26 00:09:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 204.23 Mbit/s  
95th percentile per-packet one-way delay: 287.594 ms  
Loss rate: 5.84%  
-- Flow 1:  
Average throughput: 154.16 Mbit/s  
95th percentile per-packet one-way delay: 290.566 ms  
Loss rate: 7.61%  
-- Flow 2:  
Average throughput: 29.09 Mbit/s  
95th percentile per-packet one-way delay: 136.955 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 96.32 Mbit/s  
95th percentile per-packet one-way delay: 207.391 ms  
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-09-25 18:50:36

End at: 2018-09-25 18:51:06

Local clock offset: -0.101 ms

Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-09-26 00:11:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 501.60 Mbit/s

95th percentile per-packet one-way delay: 138.191 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 281.07 Mbit/s

95th percentile per-packet one-way delay: 138.938 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 234.29 Mbit/s

95th percentile per-packet one-way delay: 137.086 ms

Loss rate: 0.00%

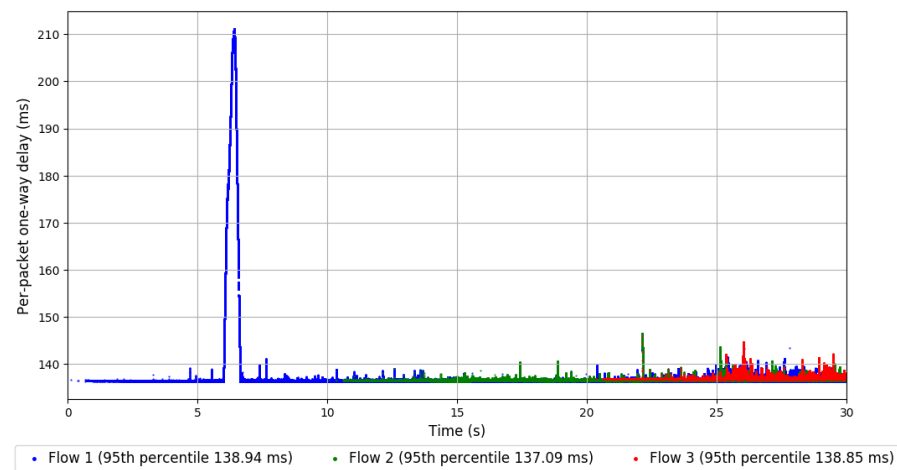
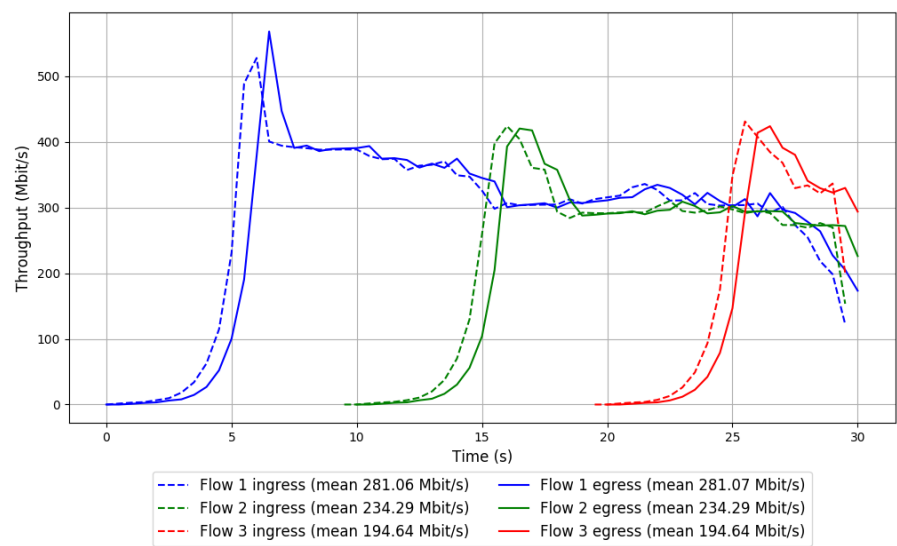
-- Flow 3:

Average throughput: 194.64 Mbit/s

95th percentile per-packet one-way delay: 138.855 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

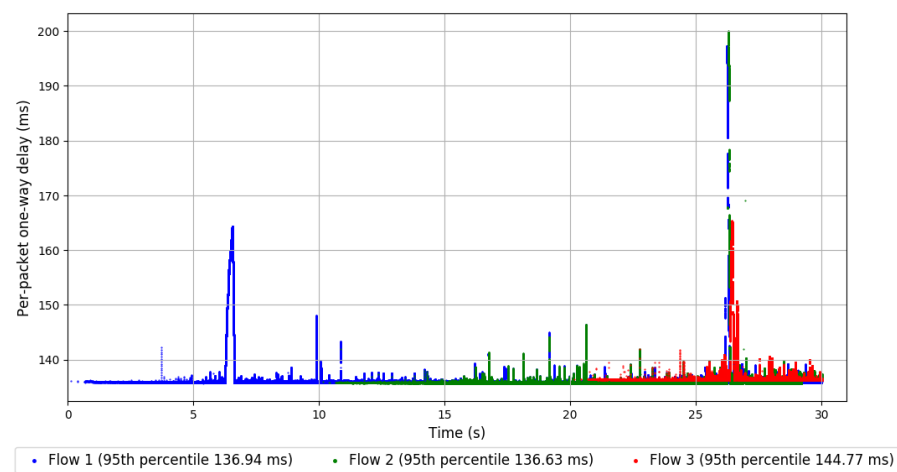
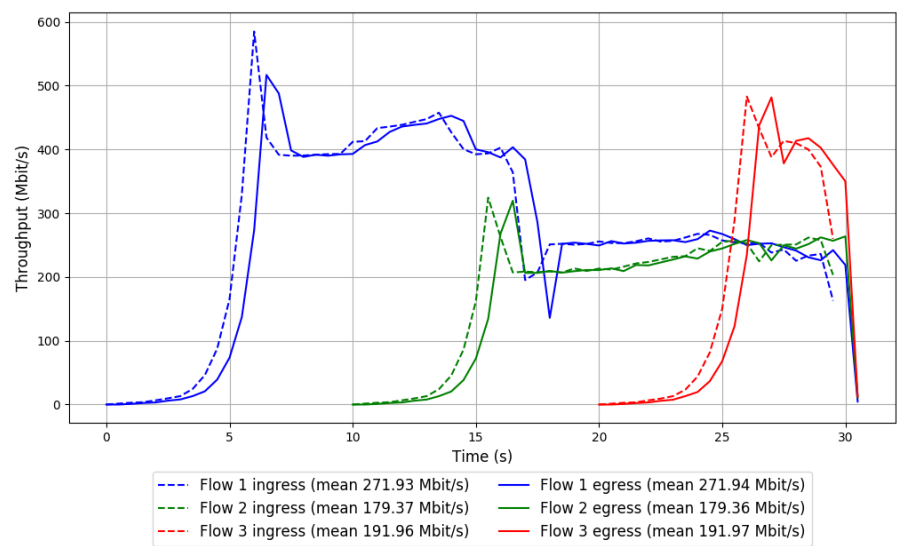


Run 2: Statistics of PCC-Vivace

Start at: 2018-09-25 19:25:48  
End at: 2018-09-25 19:26:18  
Local clock offset: -0.191 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-09-26 00:12:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 454.50 Mbit/s  
95th percentile per-packet one-way delay: 137.577 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 271.94 Mbit/s  
95th percentile per-packet one-way delay: 136.942 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 179.36 Mbit/s  
95th percentile per-packet one-way delay: 136.634 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 191.97 Mbit/s  
95th percentile per-packet one-way delay: 144.770 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

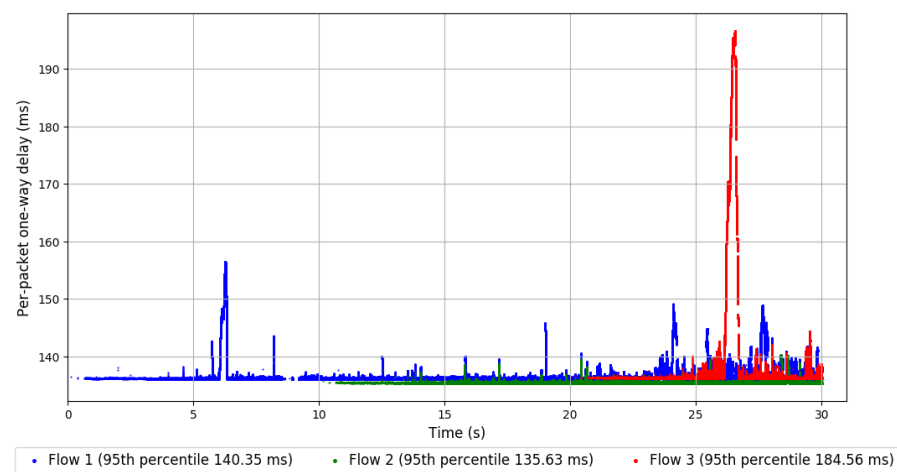
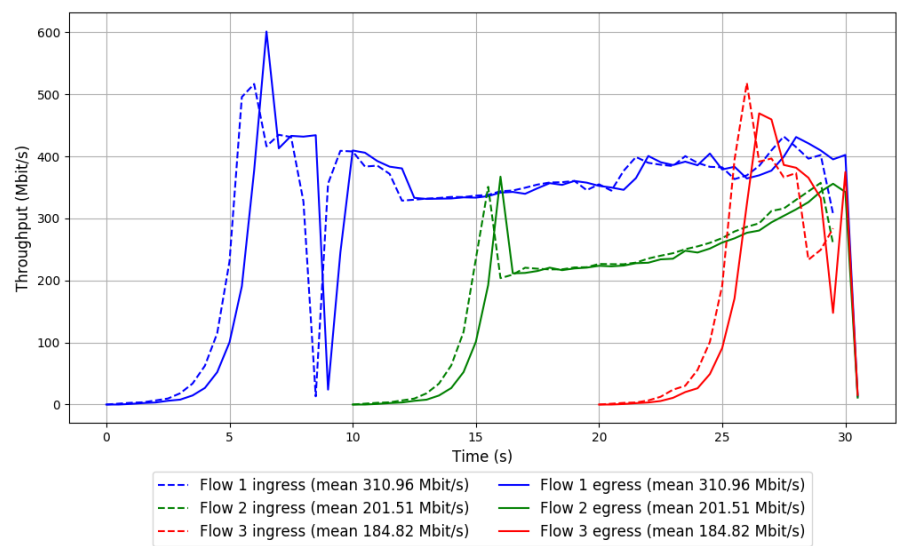


Run 3: Statistics of PCC-Vivace

Start at: 2018-09-25 20:01:14  
End at: 2018-09-25 20:01:44  
Local clock offset: -0.166 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-09-26 00:12:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 505.76 Mbit/s  
95th percentile per-packet one-way delay: 140.680 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 310.96 Mbit/s  
95th percentile per-packet one-way delay: 140.350 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 201.51 Mbit/s  
95th percentile per-packet one-way delay: 135.630 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 184.82 Mbit/s  
95th percentile per-packet one-way delay: 184.561 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link





Run 4: Statistics of PCC-Vivace

Start at: 2018-09-25 20:36:56

End at: 2018-09-25 20:37:26

Local clock offset: -0.271 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-09-26 00:12:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 468.22 Mbit/s

95th percentile per-packet one-way delay: 137.356 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 307.32 Mbit/s

95th percentile per-packet one-way delay: 138.880 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 186.66 Mbit/s

95th percentile per-packet one-way delay: 135.777 ms

Loss rate: 0.00%

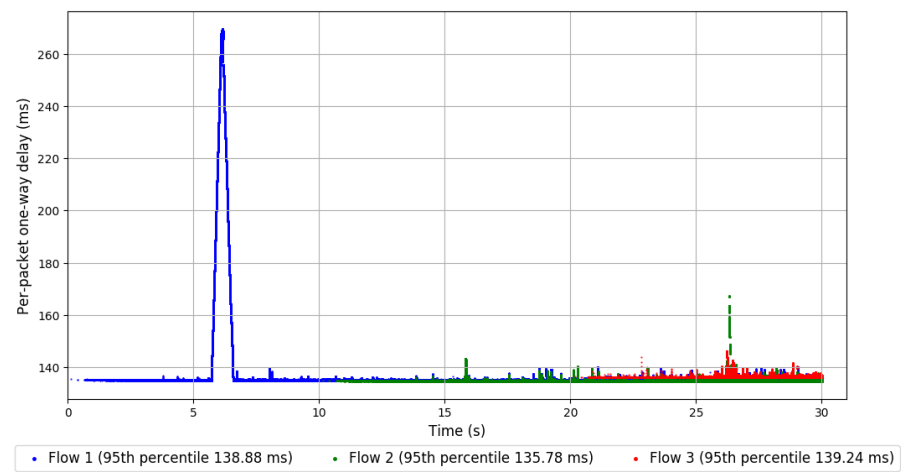
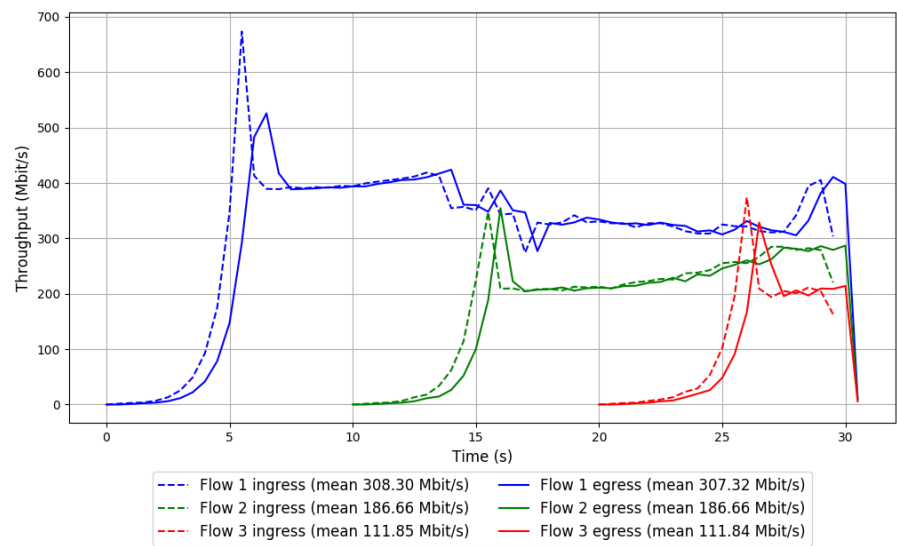
-- Flow 3:

Average throughput: 111.84 Mbit/s

95th percentile per-packet one-way delay: 139.239 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-09-25 21:12:25

End at: 2018-09-25 21:12:55

Local clock offset: -0.304 ms

Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2018-09-26 00:12:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 412.32 Mbit/s

95th percentile per-packet one-way delay: 136.928 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 270.78 Mbit/s

95th percentile per-packet one-way delay: 136.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.54 Mbit/s

95th percentile per-packet one-way delay: 137.107 ms

Loss rate: 0.00%

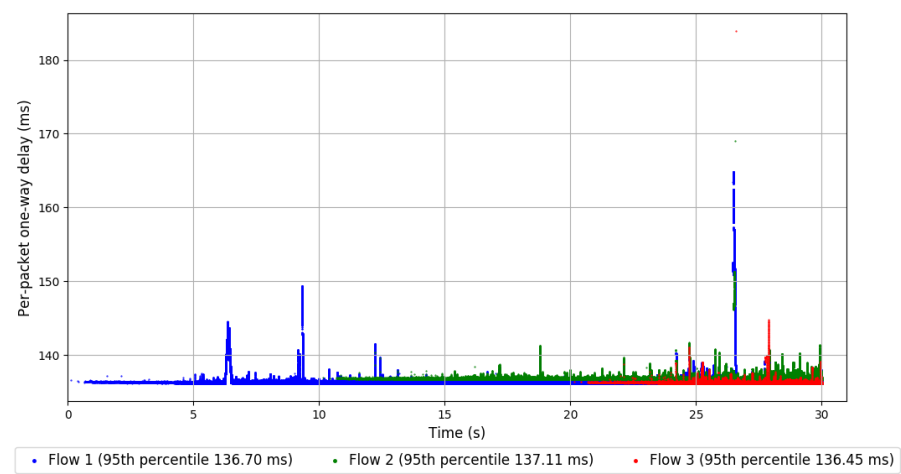
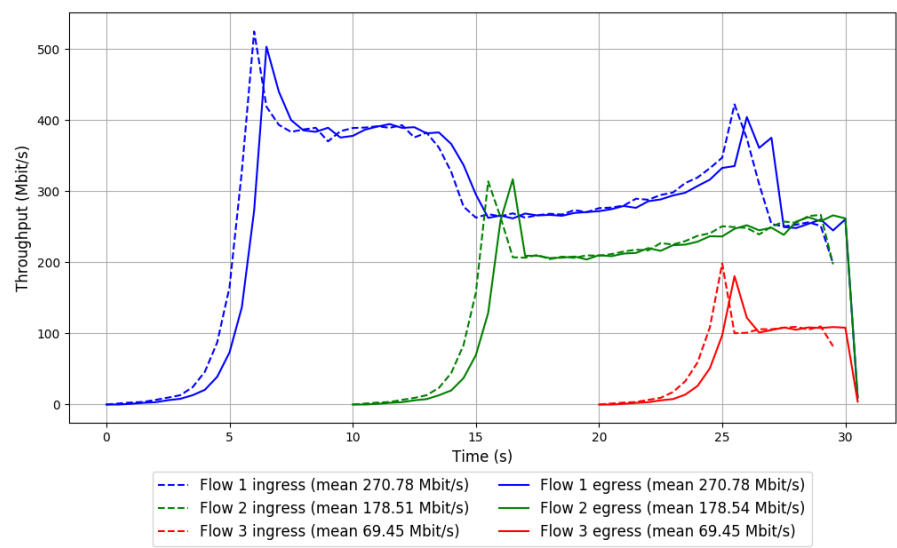
-- Flow 3:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 136.446 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

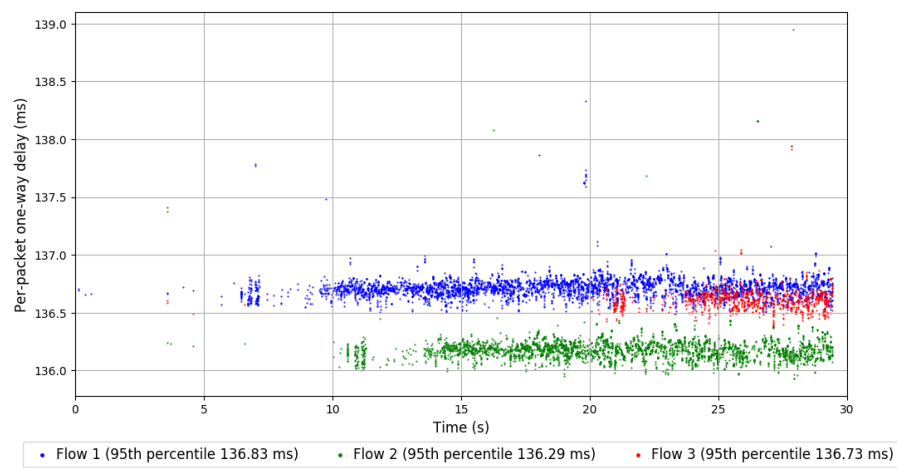
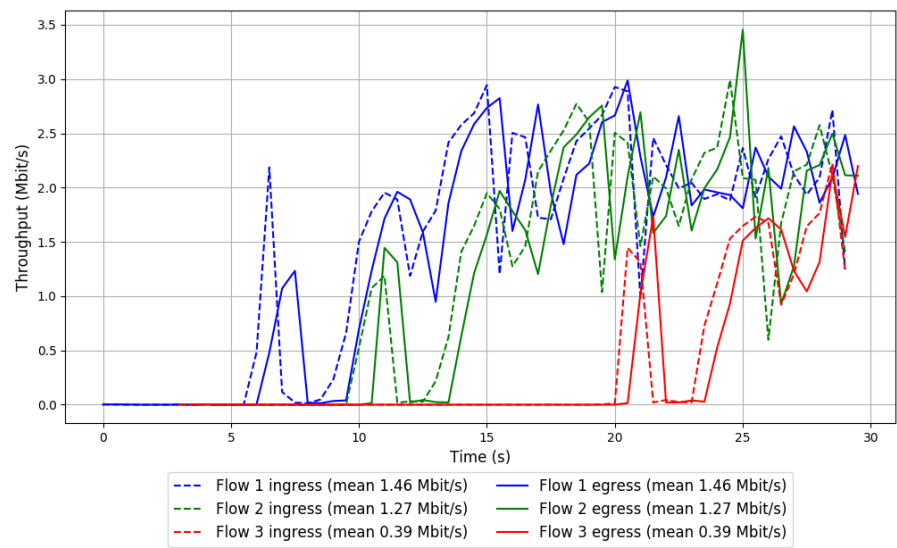


```
Run 1: Statistics of WebRTC media

Start at: 2018-09-25 19:15:55
End at: 2018-09-25 19:16:25
Local clock offset: -0.198 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-09-26 00:12:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 136.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 136.826 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 136.290 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.728 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-09-25 19:51:05

End at: 2018-09-25 19:51:35

Local clock offset: -0.316 ms

Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-09-26 00:12:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 136.942 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 135.542 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 136.993 ms

Loss rate: 0.00%

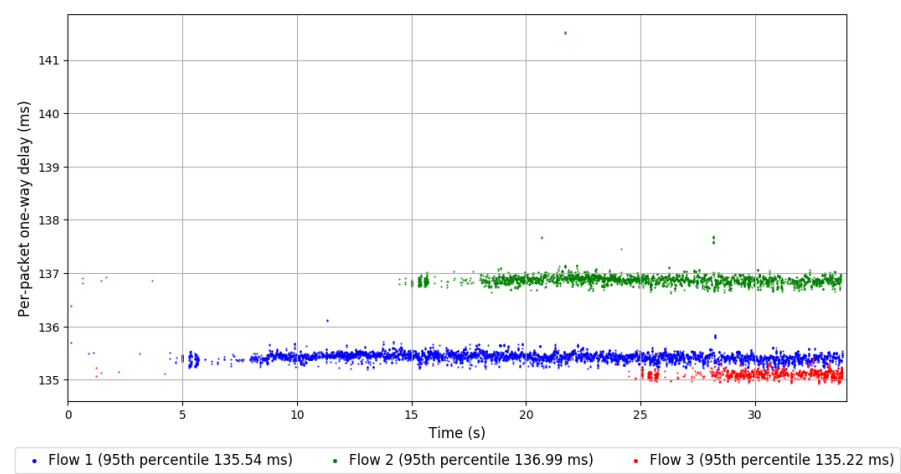
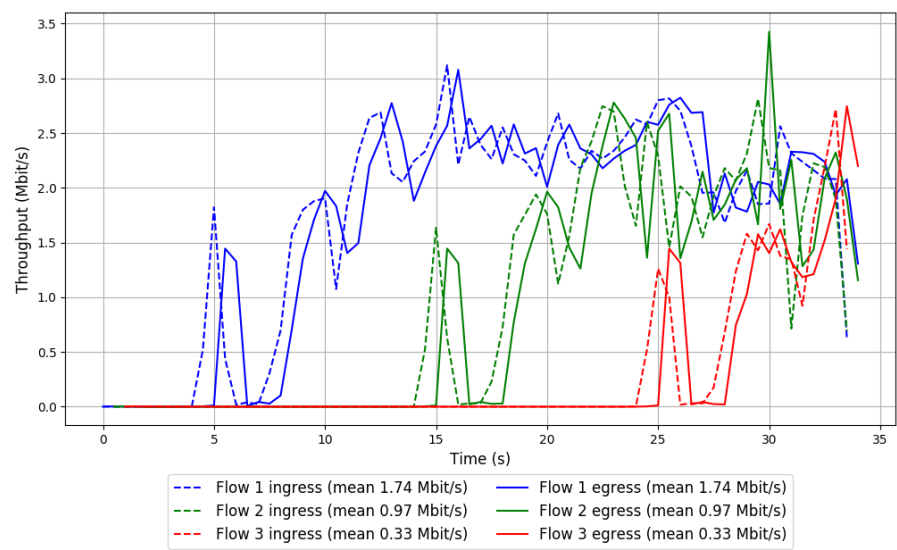
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 135.222 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link





Run 3: Statistics of WebRTC media

Start at: 2018-09-25 20:27:05

End at: 2018-09-25 20:27:35

Local clock offset: -0.366 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-09-26 00:12:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 136.569 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 136.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 0.00%

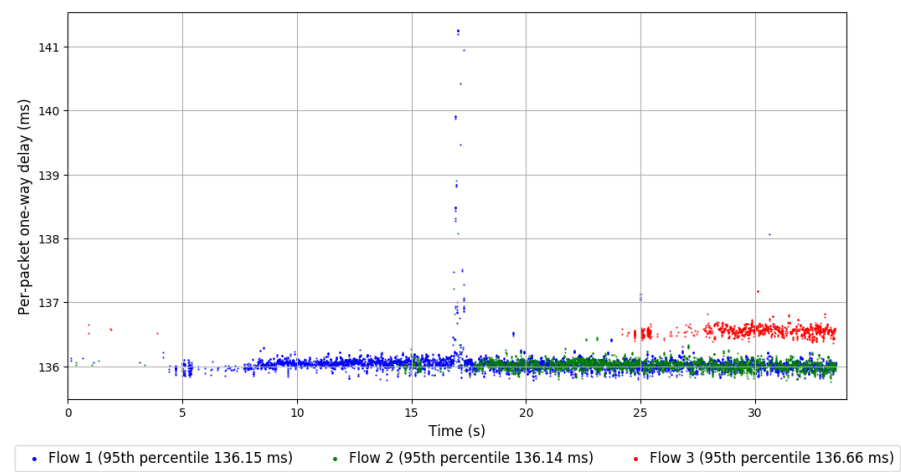
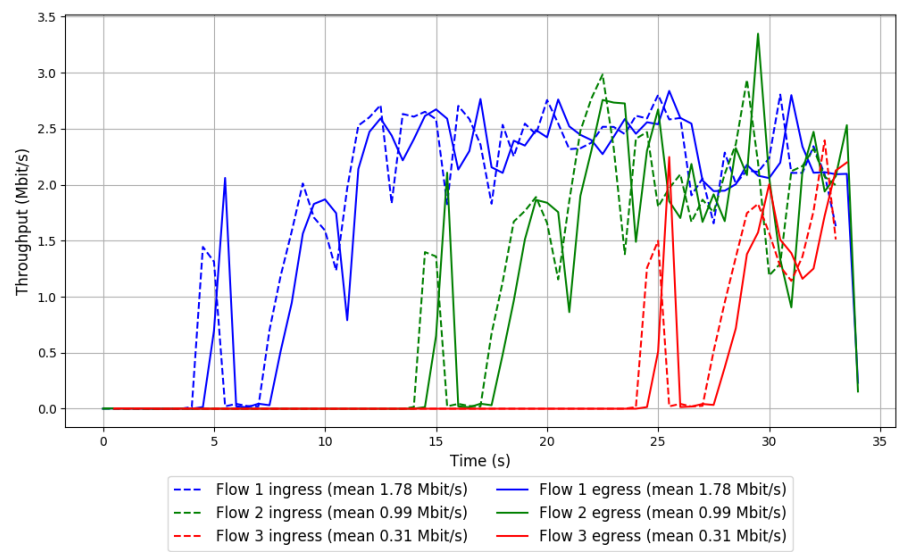
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 136.664 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

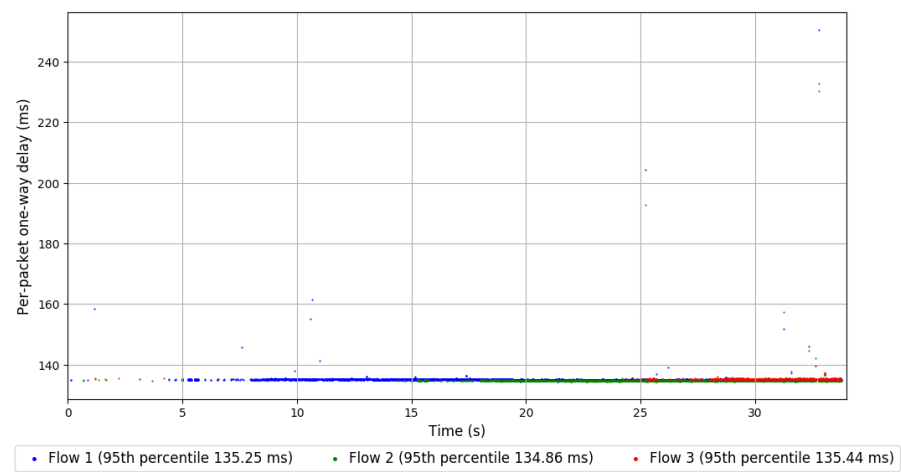
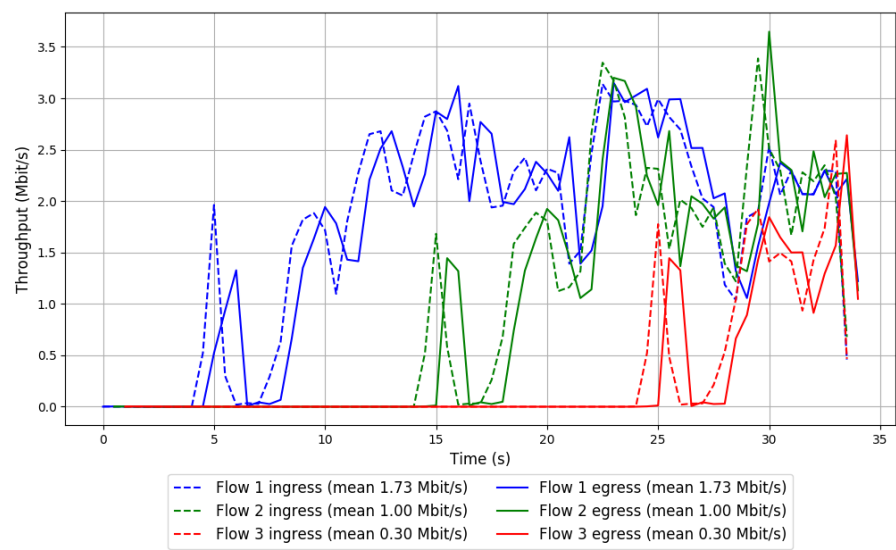


Run 4: Statistics of WebRTC media

Start at: 2018-09-25 21:02:37  
End at: 2018-09-25 21:03:07  
Local clock offset: 0.092 ms  
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2018-09-26 00:12:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 135.346 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.73 Mbit/s  
95th percentile per-packet one-way delay: 135.251 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.00 Mbit/s  
95th percentile per-packet one-way delay: 134.863 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 135.445 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-25 21:38:12

End at: 2018-09-25 21:38:42

Local clock offset: -0.31 ms

Remote clock offset: 0.292 ms

# Below is generated by plot.py at 2018-09-26 00:12:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 136.897 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 137.002 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

