

Pantheon Report

Generated at 2018-07-20 00:26:49 (UTC).

Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

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

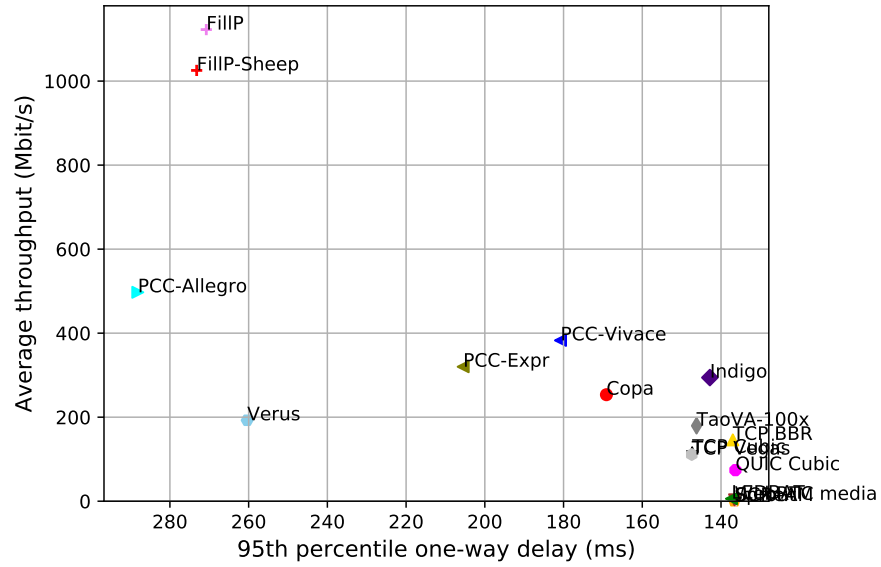
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

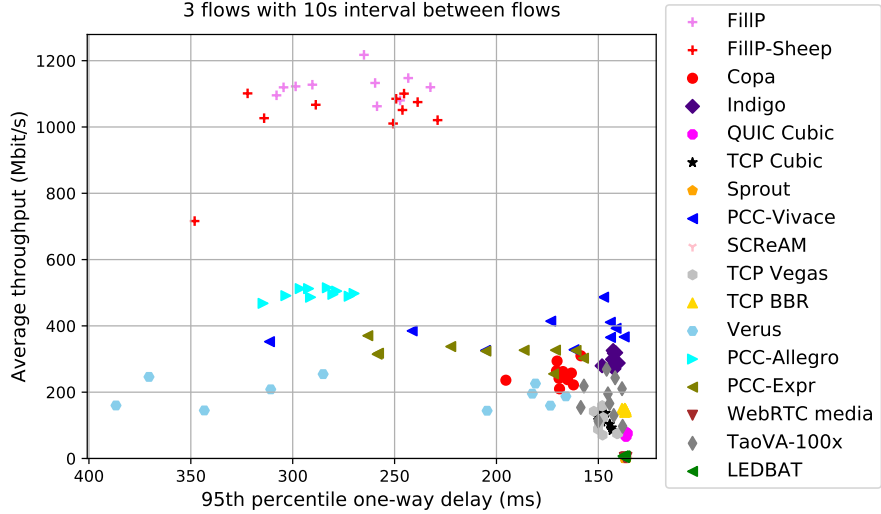
Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE London to GCE Sydney, 10 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	10	76.00	73.33	65.49	136.76	137.07	137.48	0.98	1.36	3.37
Copa	10	142.22	120.43	100.46	170.50	163.91	165.26	0.41	1.15	2.40
TCP Cubic	10	65.70	53.51	43.84	146.97	146.06	147.37	1.27	2.12	5.38
FillP	10	610.88	547.46	458.01	258.44	282.40	264.86	5.92	6.80	5.95
FillP-Sheep	10	543.41	512.13	439.78	272.60	268.06	236.33	6.62	6.43	5.21
Indigo	10	153.64	146.60	135.66	140.68	145.08	147.12	0.87	1.42	3.37
LEDBAT	10	4.18	2.12	1.05	137.43	137.03	136.77	2.03	2.83	4.97
PCC-Allegro	10	453.67	58.25	15.66	290.22	262.78	261.68	3.59	2.67	4.79
PCC-Expr	10	191.02	162.97	65.37	198.10	208.72	144.43	1.67	2.35	3.44
QUIC Cubic	10	41.68	36.06	25.60	136.24	135.95	136.17	0.78	2.20	2.05
SCReAM	10	0.22	0.22	0.22	136.27	136.08	136.00	0.90	1.43	2.59
Sprout	10	0.16	0.16	0.21	136.61	136.53	136.51	0.91	1.11	2.80
TaoVA-100x	10	91.36	113.03	41.81	140.30	145.98	146.53	0.90	0.74	2.87
TCP Vegas	10	65.99	46.88	43.94	145.96	145.81	145.98	0.96	1.67	3.58
Verus	10	116.72	80.85	71.80	234.79	233.88	228.29	2.01	3.18	5.71
PCC-Vivace	10	222.34	186.17	115.23	198.84	146.56	189.14	1.72	1.59	4.72
WebRTC media	10	1.80	1.11	0.36	136.49	136.46	136.32	1.35	1.96	4.33

Run 1: Statistics of TCP BBR

Start at: 2018-07-19 17:15:45

End at: 2018-07-19 17:16:15

Local clock offset: -0.369 ms

Remote clock offset: -0.43 ms

Below is generated by plot.py at 2018-07-19 22:01:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.42 Mbit/s

95th percentile per-packet one-way delay: 136.687 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 136.651 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 1.53%

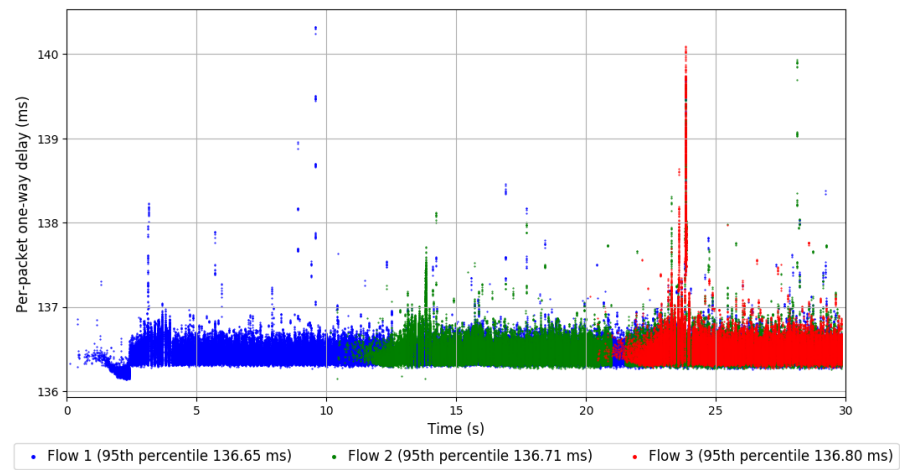
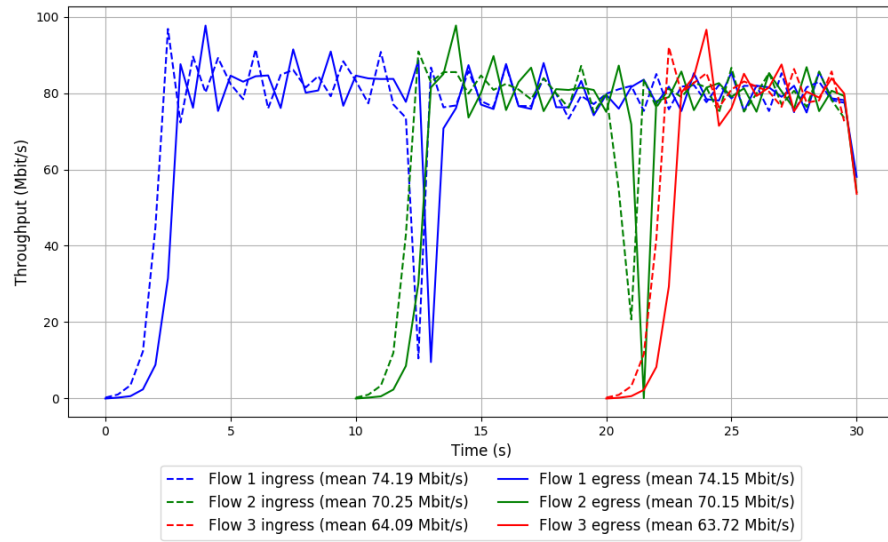
-- Flow 3:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 136.797 ms

Loss rate: 3.32%

Run 1: Report of TCP BBR — Data Link

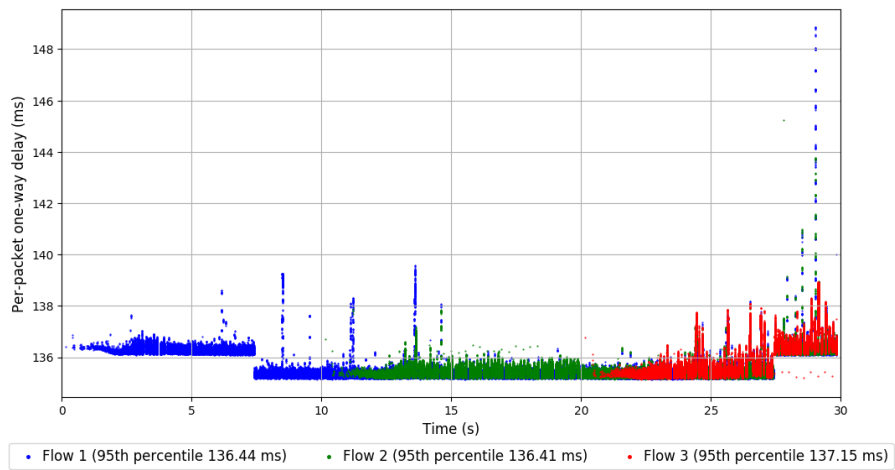
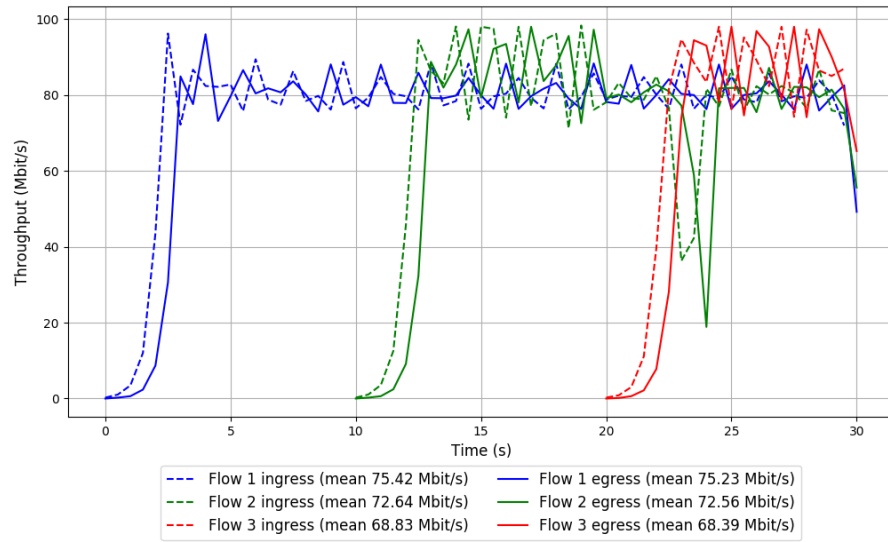


Run 2: Statistics of TCP BBR

Start at: 2018-07-19 17:42:20
End at: 2018-07-19 17:42:50
Local clock offset: -0.313 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-07-19 22:01:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 145.66 Mbit/s
95th percentile per-packet one-way delay: 136.576 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 75.23 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 136.411 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 68.39 Mbit/s
95th percentile per-packet one-way delay: 137.145 ms
Loss rate: 3.37%

Run 2: Report of TCP BBR — Data Link

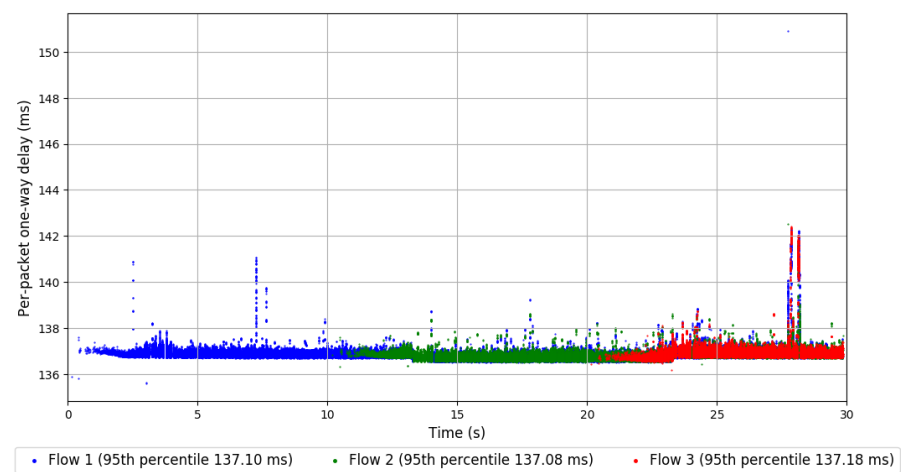
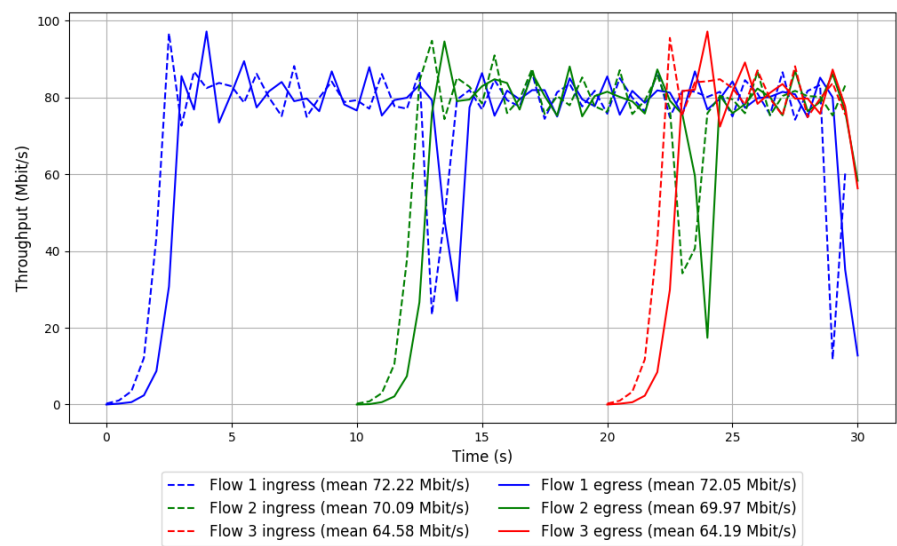


Run 3: Statistics of TCP BBR

Start at: 2018-07-19 18:09:15
End at: 2018-07-19 18:09:45
Local clock offset: 0.183 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2018-07-19 22:01:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 139.27 Mbit/s
95th percentile per-packet one-way delay: 137.107 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 137.098 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 69.97 Mbit/s
95th percentile per-packet one-way delay: 137.080 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 137.178 ms
Loss rate: 3.31%

Run 3: Report of TCP BBR — Data Link

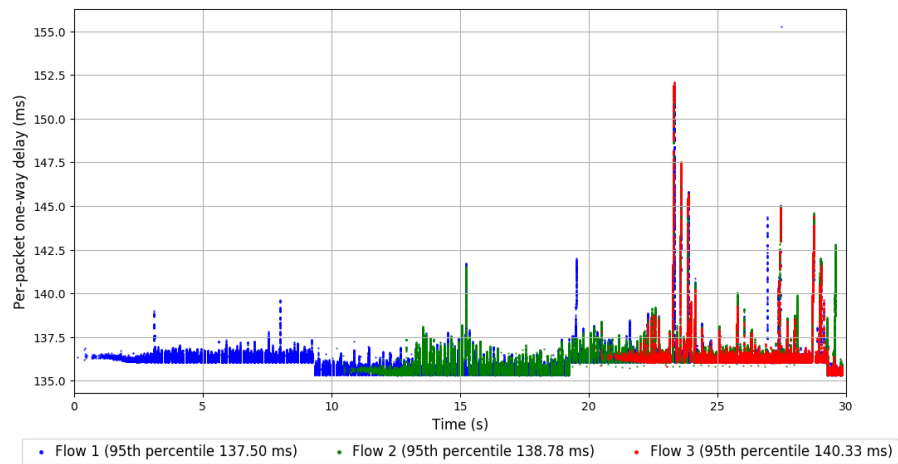
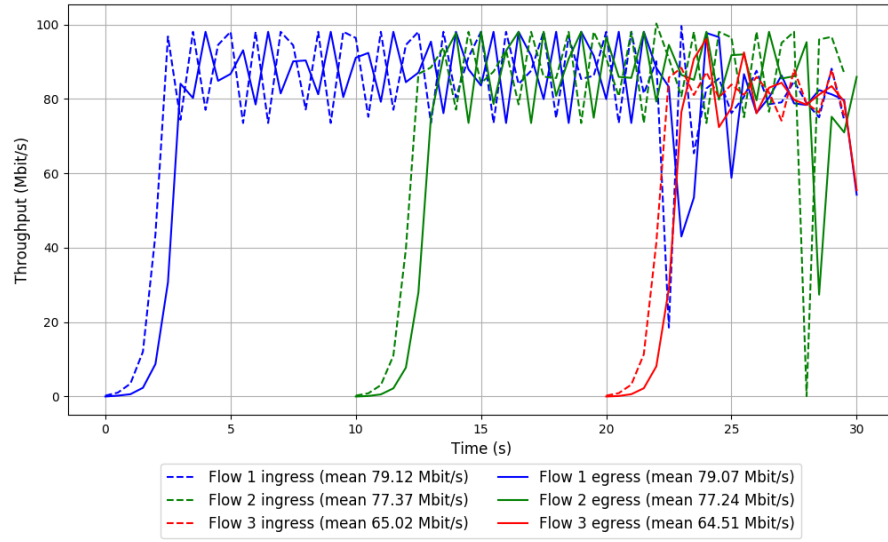


Run 4: Statistics of TCP BBR

Start at: 2018-07-19 18:36:29
End at: 2018-07-19 18:36:59
Local clock offset: 0.1 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-07-19 22:01:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.17 Mbit/s
95th percentile per-packet one-way delay: 138.378 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 79.07 Mbit/s
95th percentile per-packet one-way delay: 137.502 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 138.776 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 64.51 Mbit/s
95th percentile per-packet one-way delay: 140.333 ms
Loss rate: 3.53%

Run 4: Report of TCP BBR — Data Link

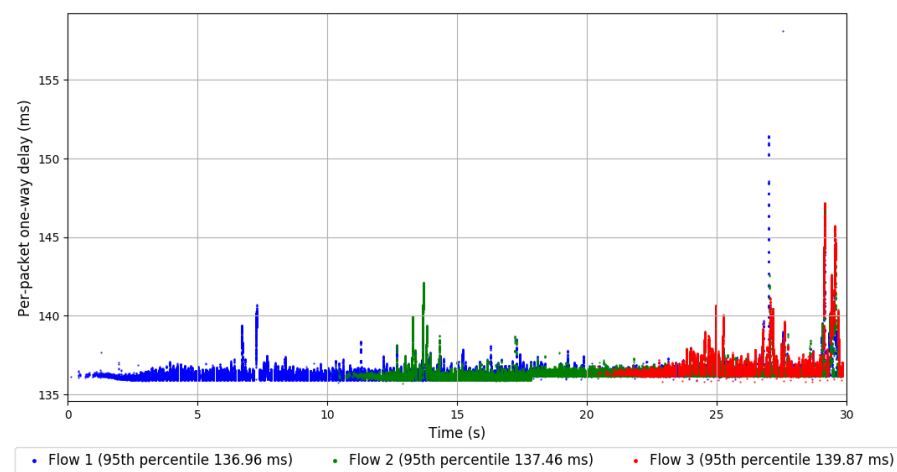
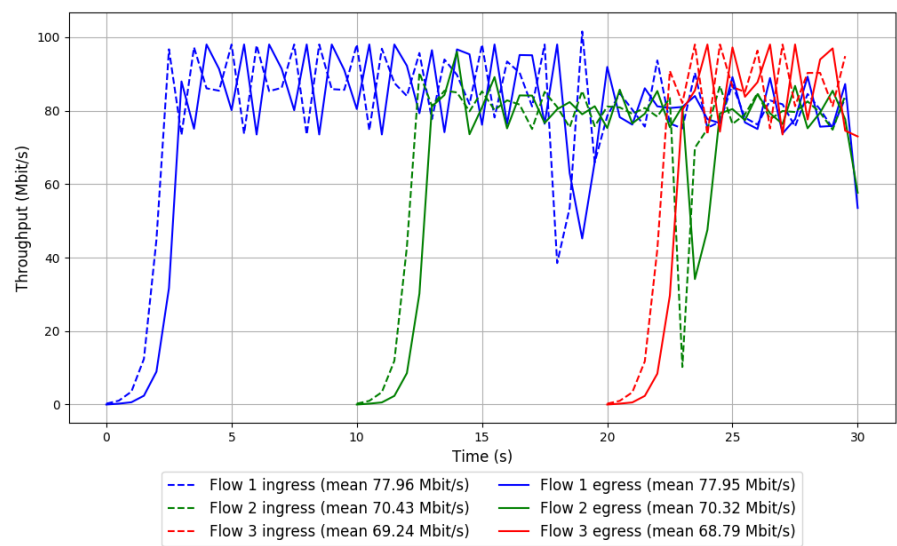


Run 5: Statistics of TCP BBR

Start at: 2018-07-19 19:03:20
End at: 2018-07-19 19:03:50
Local clock offset: -0.111 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-07-19 22:01:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 146.98 Mbit/s
95th percentile per-packet one-way delay: 137.688 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 77.95 Mbit/s
95th percentile per-packet one-way delay: 136.959 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 70.32 Mbit/s
95th percentile per-packet one-way delay: 137.458 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 68.79 Mbit/s
95th percentile per-packet one-way delay: 139.867 ms
Loss rate: 3.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-19 19:30:28

End at: 2018-07-19 19:30:58

Local clock offset: 0.265 ms

Remote clock offset: 1.25 ms

Below is generated by plot.py at 2018-07-19 22:01:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.09 Mbit/s

95th percentile per-packet one-way delay: 136.513 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 77.38 Mbit/s

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

Loss rate: 0.92%

-- Flow 2:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.00%

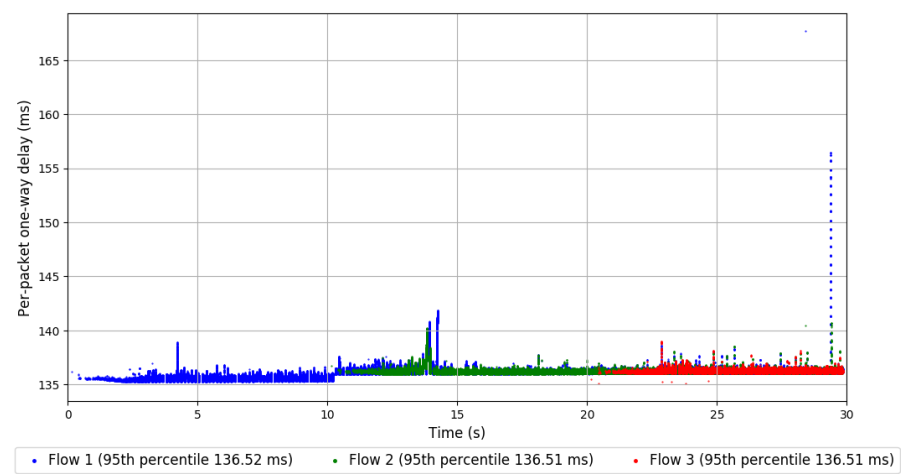
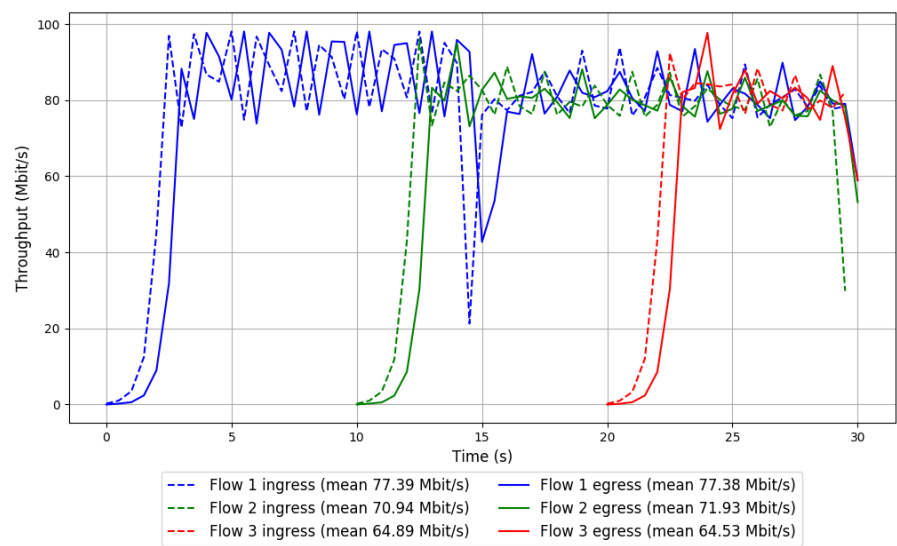
-- Flow 3:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 3.30%

Run 6: Report of TCP BBR — Data Link

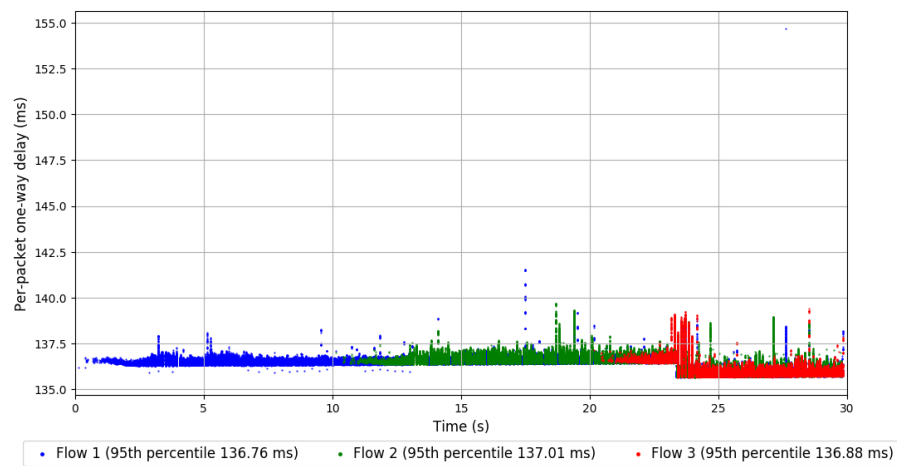
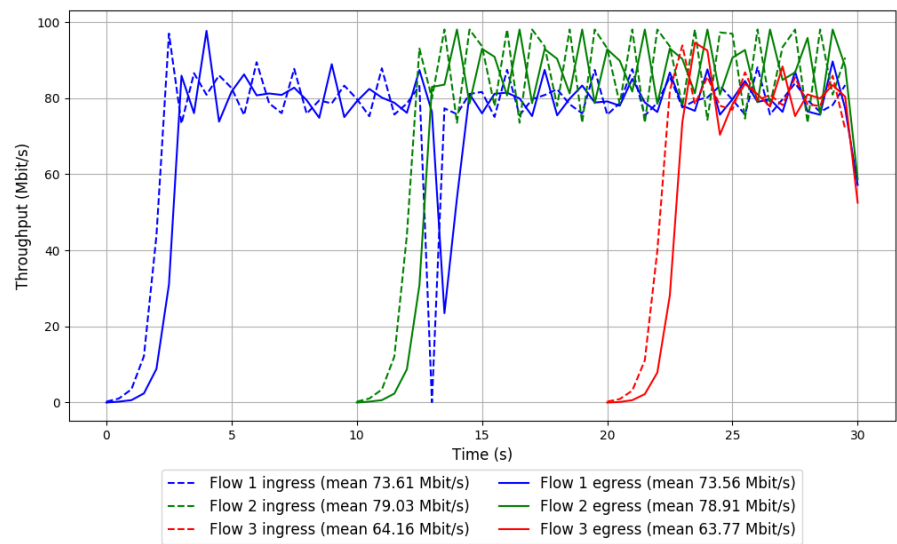


Run 7: Statistics of TCP BBR

Start at: 2018-07-19 19:57:24
End at: 2018-07-19 19:57:54
Local clock offset: 0.01 ms
Remote clock offset: 12.856 ms

Below is generated by plot.py at 2018-07-19 22:01:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 146.50 Mbit/s
95th percentile per-packet one-way delay: 136.907 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 73.56 Mbit/s
95th percentile per-packet one-way delay: 136.760 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 78.91 Mbit/s
95th percentile per-packet one-way delay: 137.013 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 63.77 Mbit/s
95th percentile per-packet one-way delay: 136.878 ms
Loss rate: 3.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-19 20:24:46

End at: 2018-07-19 20:25:16

Local clock offset: -0.054 ms

Remote clock offset: 6.653 ms

Below is generated by plot.py at 2018-07-19 22:01:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.75 Mbit/s

95th percentile per-packet one-way delay: 136.293 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 136.174 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 69.92 Mbit/s

95th percentile per-packet one-way delay: 136.230 ms

Loss rate: 1.54%

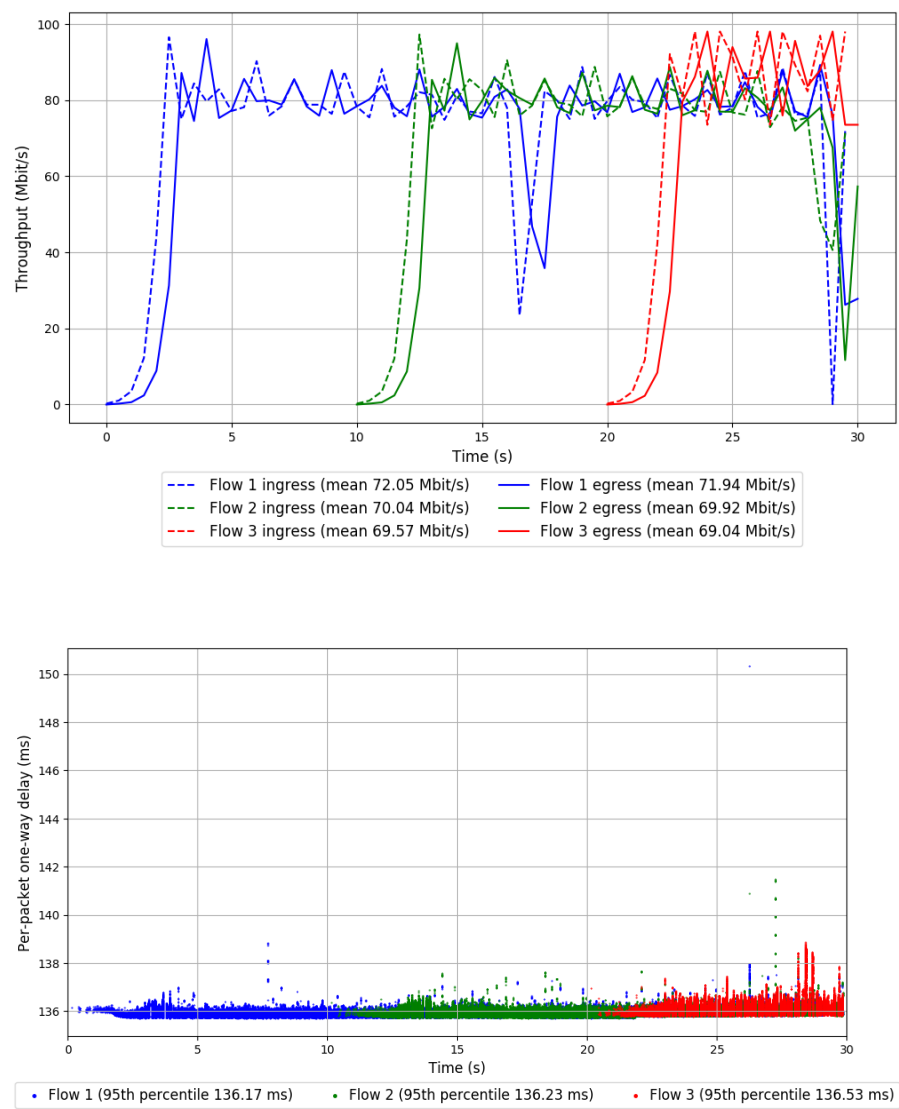
-- Flow 3:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 3.54%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-19 20:51:44

End at: 2018-07-19 20:52:14

Local clock offset: -0.059 ms

Remote clock offset: 3.333 ms

Below is generated by plot.py at 2018-07-19 22:03:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.42 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 137.024 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 137.195 ms

Loss rate: 1.45%

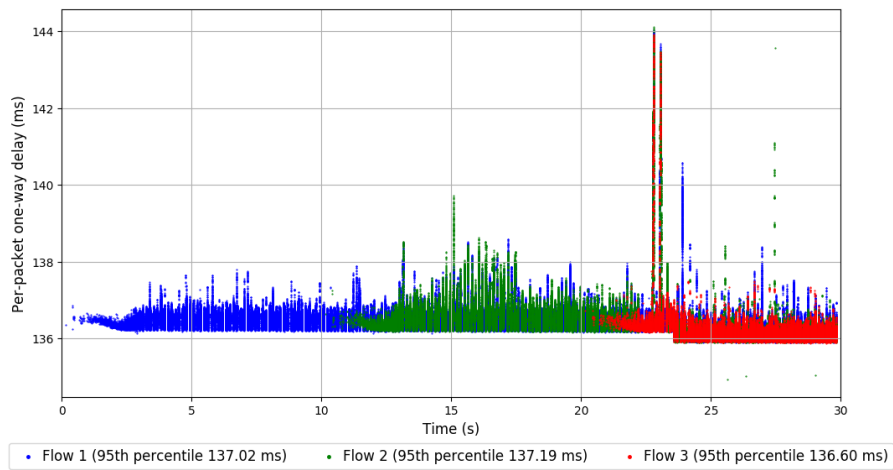
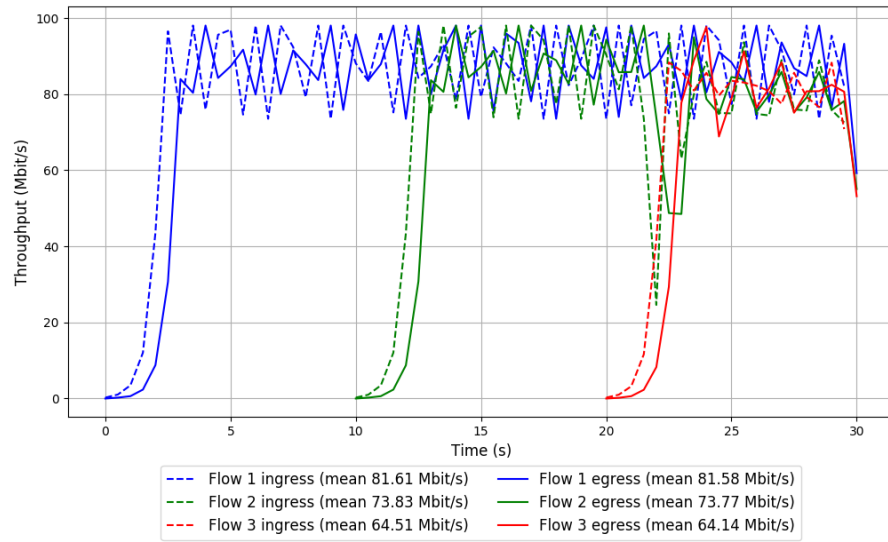
-- Flow 3:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 136.604 ms

Loss rate: 3.33%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-19 21:18:31

End at: 2018-07-19 21:19:01

Local clock offset: -0.275 ms

Remote clock offset: 2.174 ms

Below is generated by plot.py at 2018-07-19 22:03:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 136.808 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 136.516 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 78.54 Mbit/s

95th percentile per-packet one-way delay: 137.321 ms

Loss rate: 1.47%

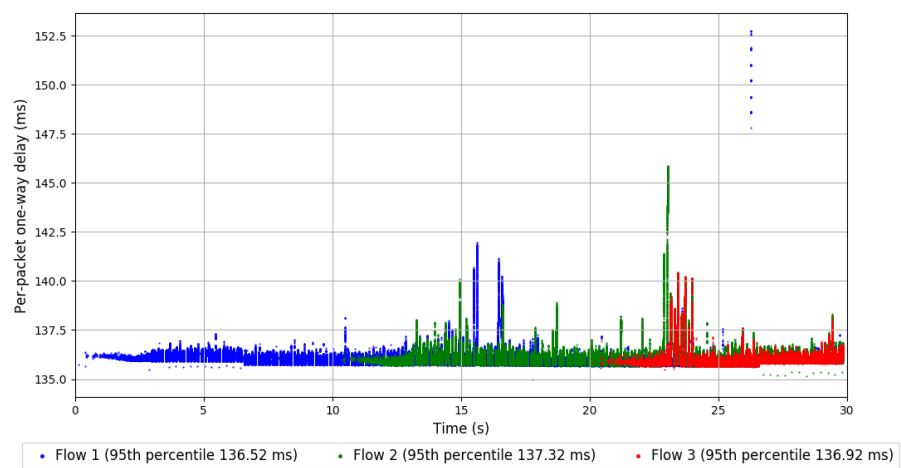
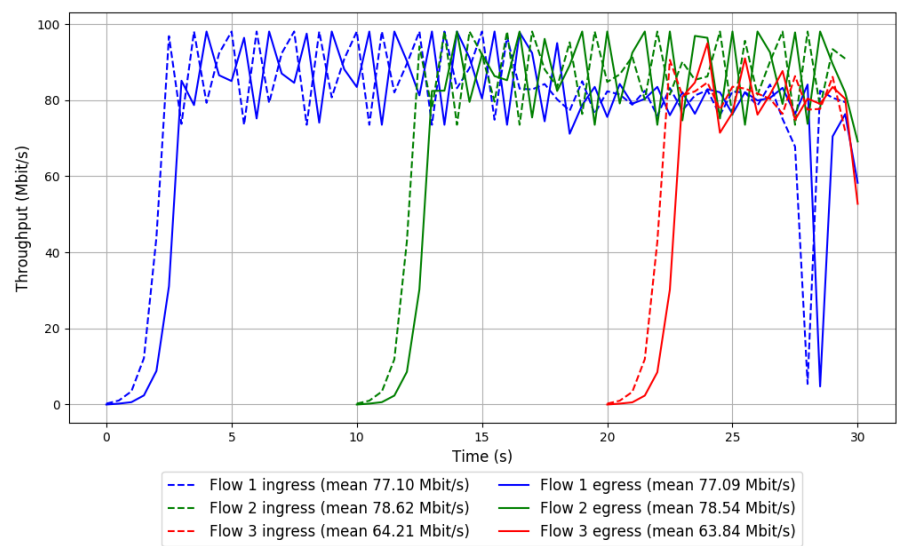
-- Flow 3:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 136.921 ms

Loss rate: 3.32%

Run 10: Report of TCP BBR — Data Link

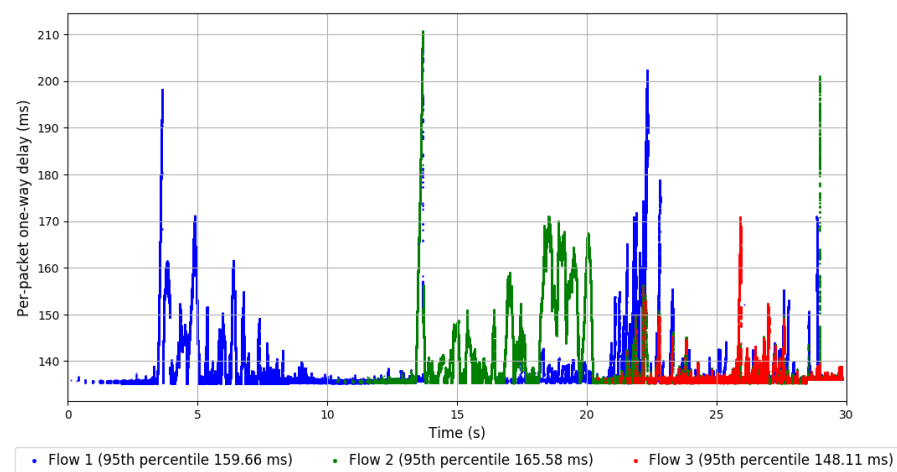
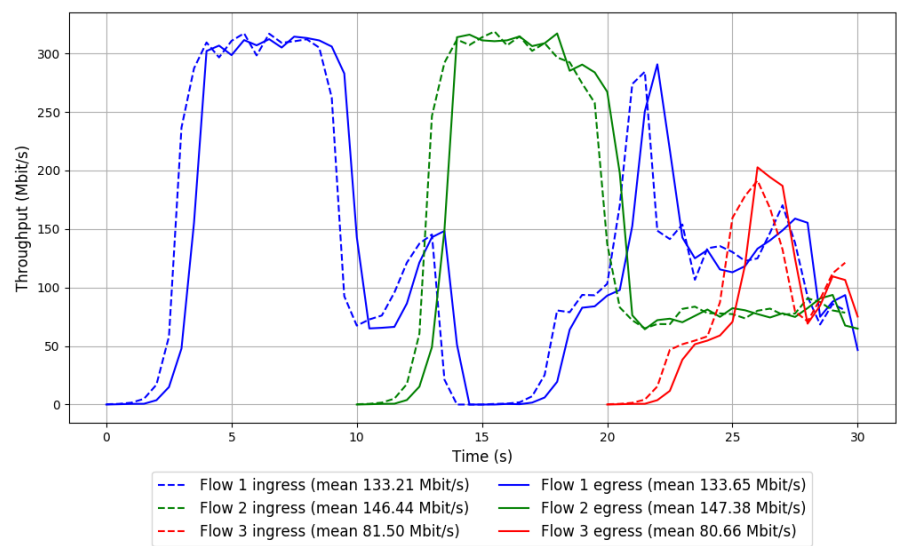


Run 1: Statistics of Copa

Start at: 2018-07-19 17:31:49
End at: 2018-07-19 17:32:19
Local clock offset: -0.151 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-07-19 22:09:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.55 Mbit/s
95th percentile per-packet one-way delay: 163.238 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 133.65 Mbit/s
95th percentile per-packet one-way delay: 159.655 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 147.38 Mbit/s
95th percentile per-packet one-way delay: 165.584 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 80.66 Mbit/s
95th percentile per-packet one-way delay: 148.108 ms
Loss rate: 3.74%

Run 1: Report of Copa — Data Link

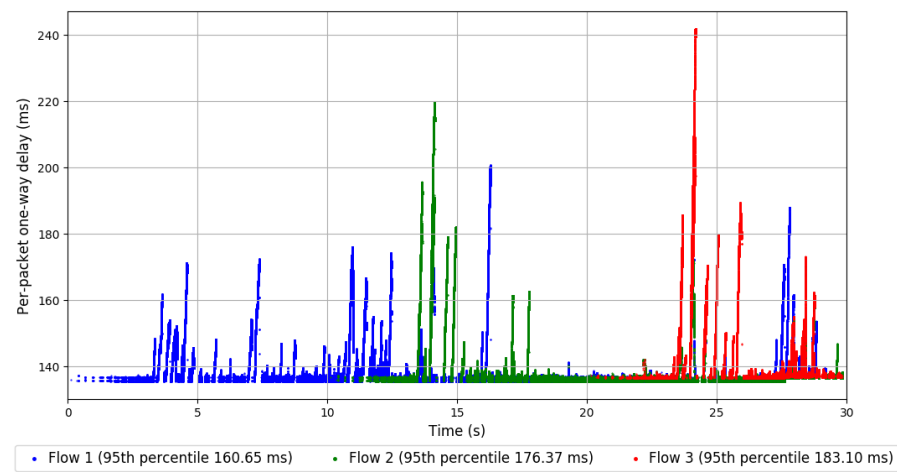
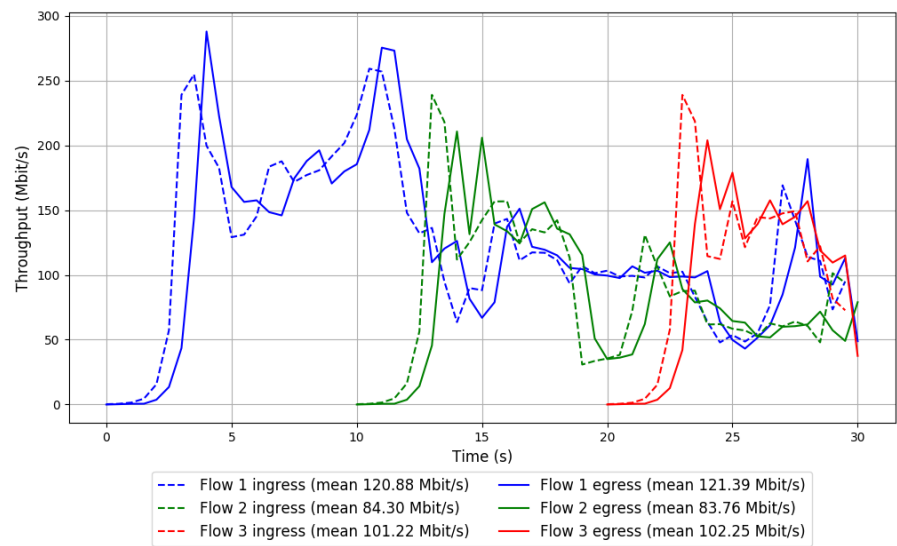


Run 2: Statistics of Copa

Start at: 2018-07-19 17:58:40
End at: 2018-07-19 17:59:10
Local clock offset: 0.153 ms
Remote clock offset: -0.419 ms

Below is generated by plot.py at 2018-07-19 22:09:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.03 Mbit/s
95th percentile per-packet one-way delay: 169.055 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 121.39 Mbit/s
95th percentile per-packet one-way delay: 160.650 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 83.76 Mbit/s
95th percentile per-packet one-way delay: 176.372 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 102.25 Mbit/s
95th percentile per-packet one-way delay: 183.098 ms
Loss rate: 1.75%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-19 18:25:32

End at: 2018-07-19 18:26:02

Local clock offset: 0.002 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-07-19 22:09:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 162.232 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 107.65 Mbit/s

95th percentile per-packet one-way delay: 159.084 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 154.732 ms

Loss rate: 0.86%

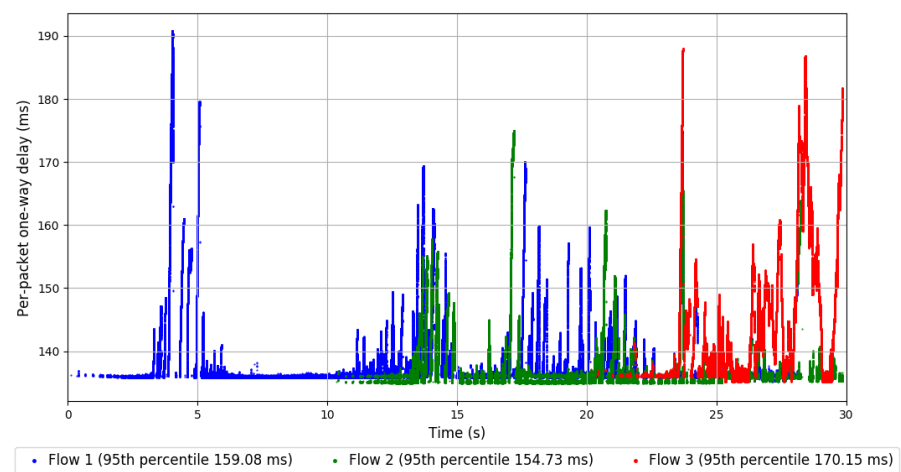
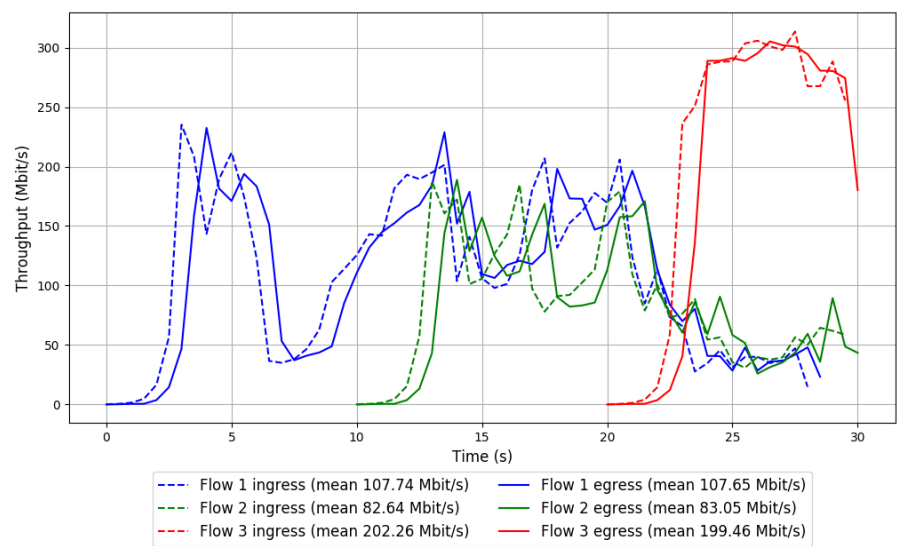
-- Flow 3:

Average throughput: 199.46 Mbit/s

95th percentile per-packet one-way delay: 170.145 ms

Loss rate: 4.09%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-19 18:52:35

End at: 2018-07-19 18:53:05

Local clock offset: -0.045 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-07-19 22:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.17 Mbit/s

95th percentile per-packet one-way delay: 167.380 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 151.80 Mbit/s

95th percentile per-packet one-way delay: 168.185 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 132.07 Mbit/s

95th percentile per-packet one-way delay: 166.945 ms

Loss rate: 0.19%

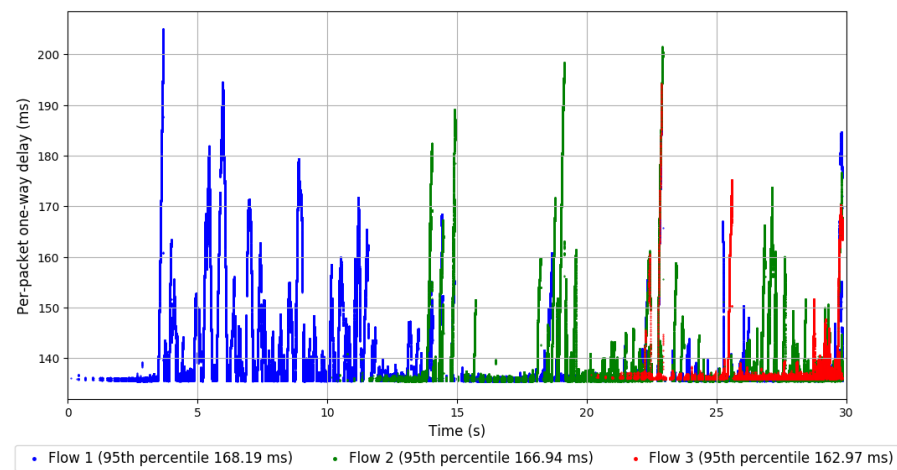
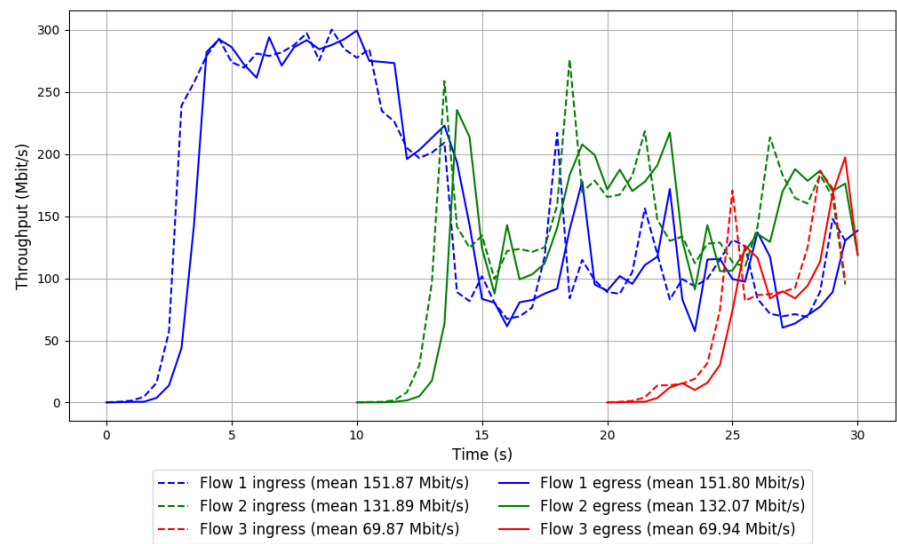
-- Flow 3:

Average throughput: 69.94 Mbit/s

95th percentile per-packet one-way delay: 162.970 ms

Loss rate: 0.63%

Run 4: Report of Copa — Data Link

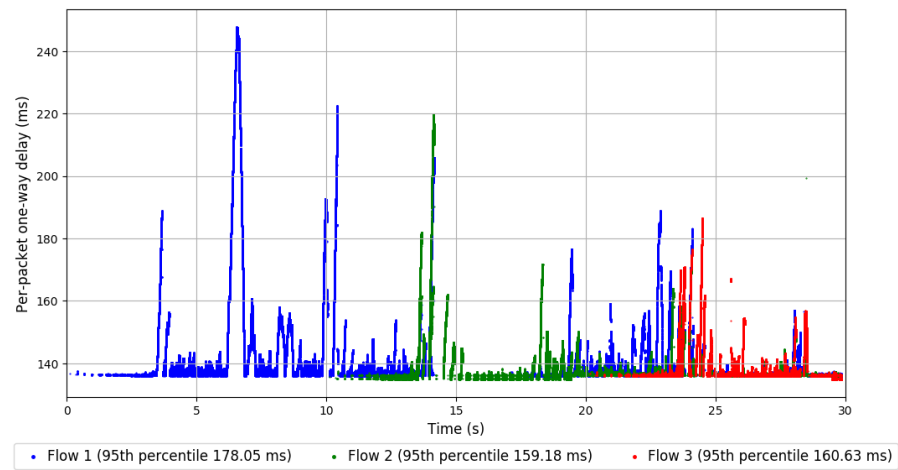
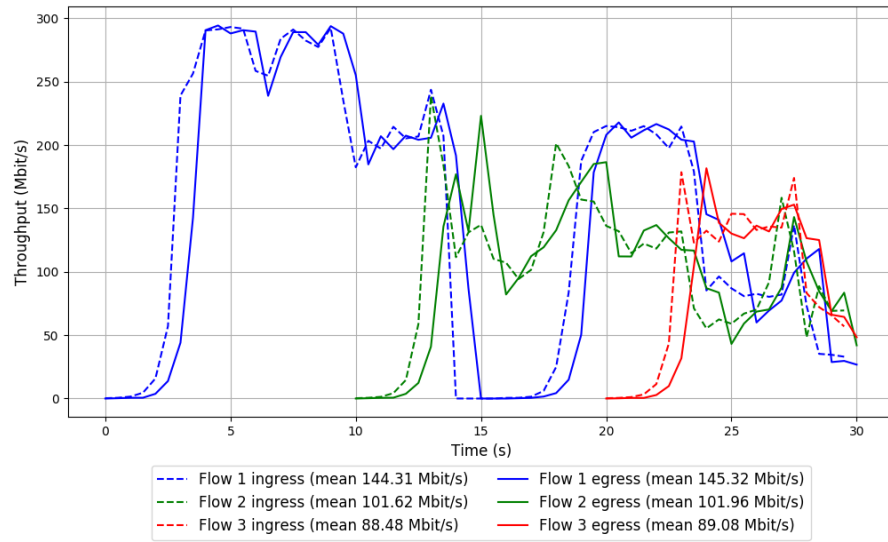


Run 5: Statistics of Copa

Start at: 2018-07-19 19:19:38
End at: 2018-07-19 19:20:08
Local clock offset: 0.029 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-07-19 22:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.62 Mbit/s
95th percentile per-packet one-way delay: 169.316 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 145.32 Mbit/s
95th percentile per-packet one-way delay: 178.053 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 101.96 Mbit/s
95th percentile per-packet one-way delay: 159.178 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 89.08 Mbit/s
95th percentile per-packet one-way delay: 160.632 ms
Loss rate: 2.08%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-19 19:46:31

End at: 2018-07-19 19:47:01

Local clock offset: -0.259 ms

Remote clock offset: 8.01 ms

Below is generated by plot.py at 2018-07-19 22:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.10 Mbit/s

95th percentile per-packet one-way delay: 195.392 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 197.891 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 165.851 ms

Loss rate: 1.71%

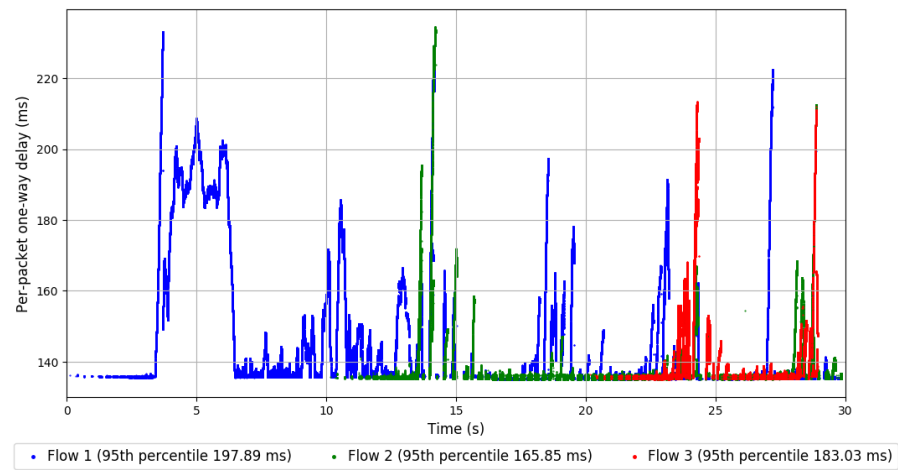
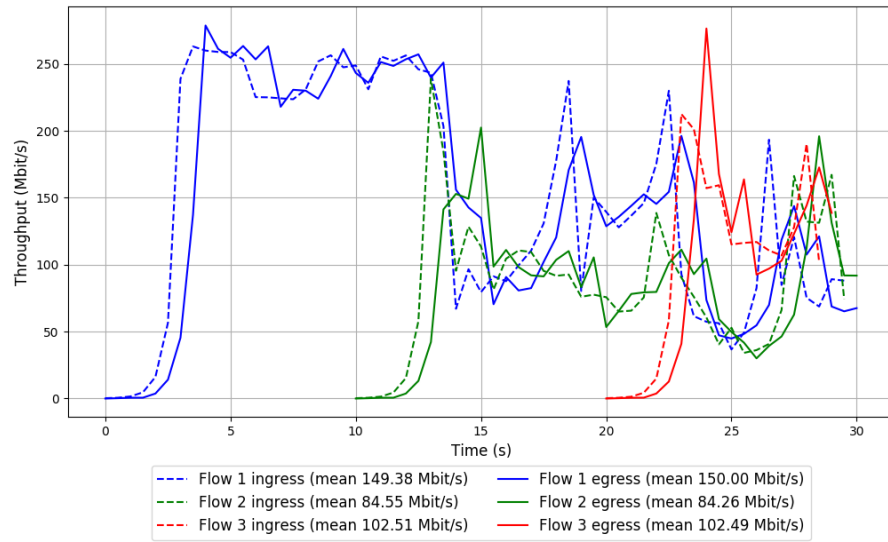
-- Flow 3:

Average throughput: 102.49 Mbit/s

95th percentile per-packet one-way delay: 183.030 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-19 20:13:48

End at: 2018-07-19 20:14:18

Local clock offset: -0.067 ms

Remote clock offset: 7.756 ms

Below is generated by plot.py at 2018-07-19 22:15:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.74 Mbit/s

95th percentile per-packet one-way delay: 158.550 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 156.47 Mbit/s

95th percentile per-packet one-way delay: 160.725 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 148.28 Mbit/s

95th percentile per-packet one-way delay: 152.106 ms

Loss rate: 0.35%

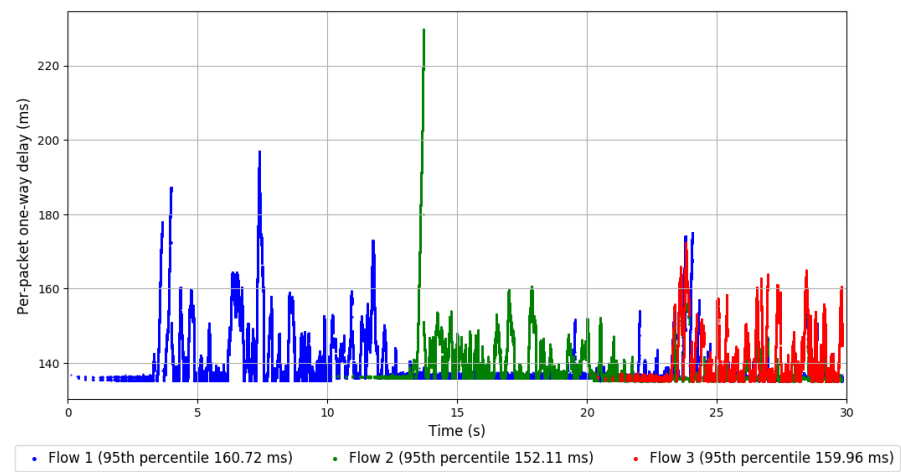
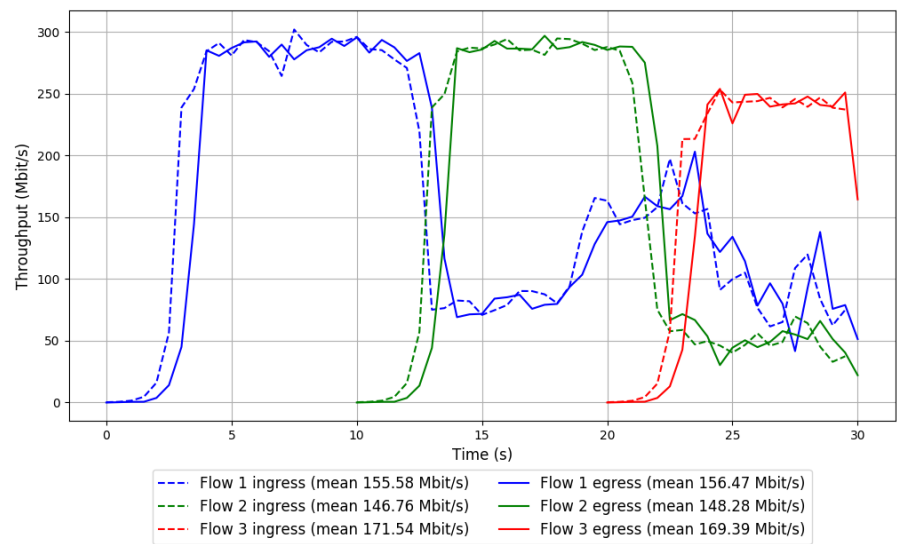
-- Flow 3:

Average throughput: 169.39 Mbit/s

95th percentile per-packet one-way delay: 159.957 ms

Loss rate: 3.96%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-19 20:40:46

End at: 2018-07-19 20:41:16

Local clock offset: 0.017 ms

Remote clock offset: 7.356 ms

Below is generated by plot.py at 2018-07-19 22:15:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.89 Mbit/s

95th percentile per-packet one-way delay: 170.260 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 181.31 Mbit/s

95th percentile per-packet one-way delay: 172.824 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 125.71 Mbit/s

95th percentile per-packet one-way delay: 174.637 ms

Loss rate: 0.99%

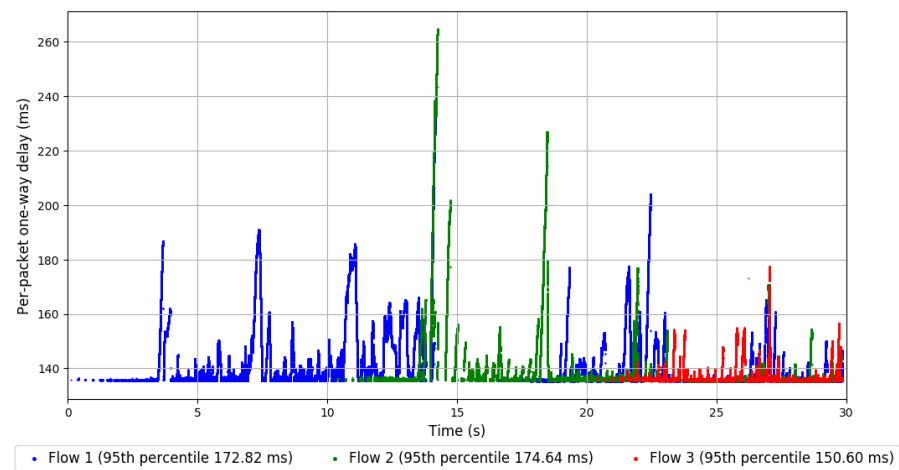
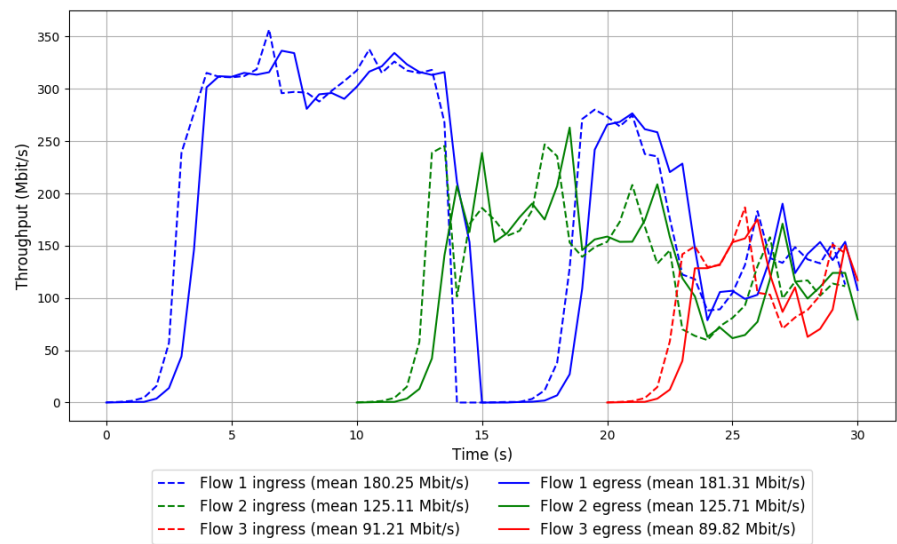
-- Flow 3:

Average throughput: 89.82 Mbit/s

95th percentile per-packet one-way delay: 150.599 ms

Loss rate: 4.23%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-19 21:07:48

End at: 2018-07-19 21:08:18

Local clock offset: 0.049 ms

Remote clock offset: 3.555 ms

Below is generated by plot.py at 2018-07-19 22:17:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.77 Mbit/s

95th percentile per-packet one-way delay: 165.103 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 167.26 Mbit/s

95th percentile per-packet one-way delay: 164.643 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 157.907 ms

Loss rate: 2.12%

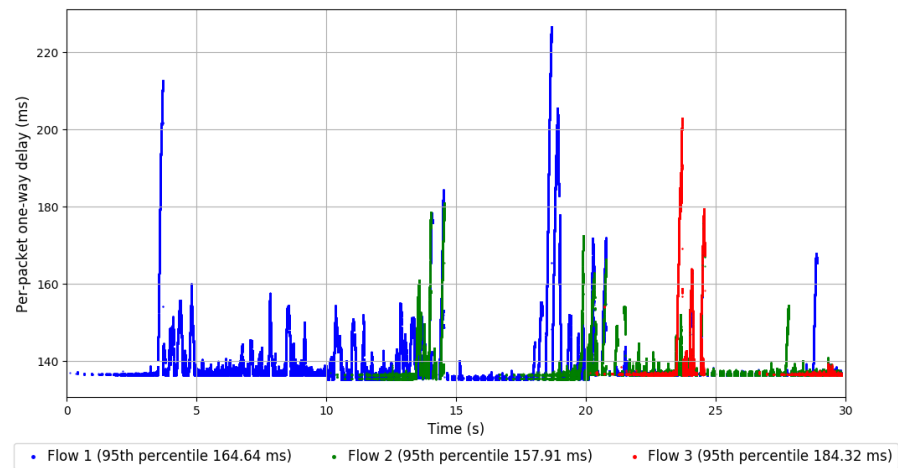
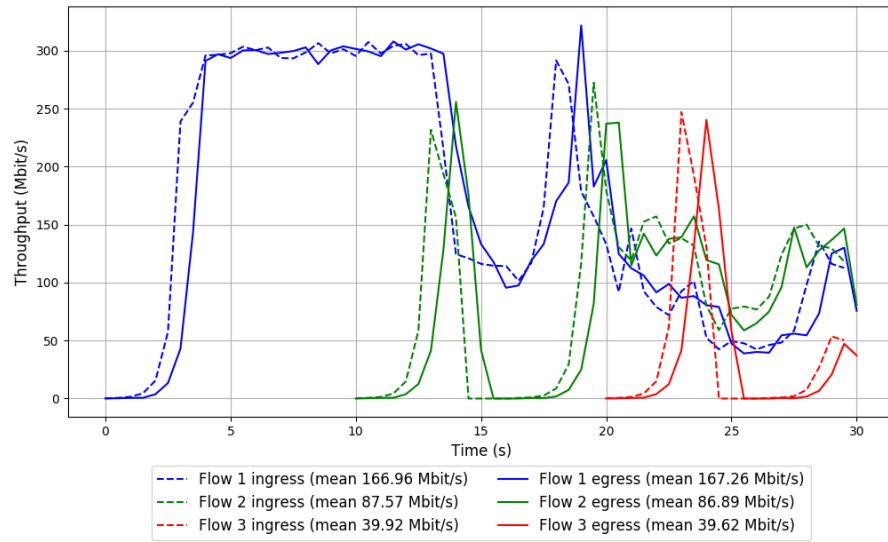
-- Flow 3:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 184.320 ms

Loss rate: 3.48%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-19 21:34:39

End at: 2018-07-19 21:35:09

Local clock offset: -0.012 ms

Remote clock offset: 0.527 ms

Below is generated by plot.py at 2018-07-19 22:18:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.34 Mbit/s

95th percentile per-packet one-way delay: 170.558 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 107.39 Mbit/s

95th percentile per-packet one-way delay: 183.241 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 210.93 Mbit/s

95th percentile per-packet one-way delay: 165.823 ms

Loss rate: 1.51%

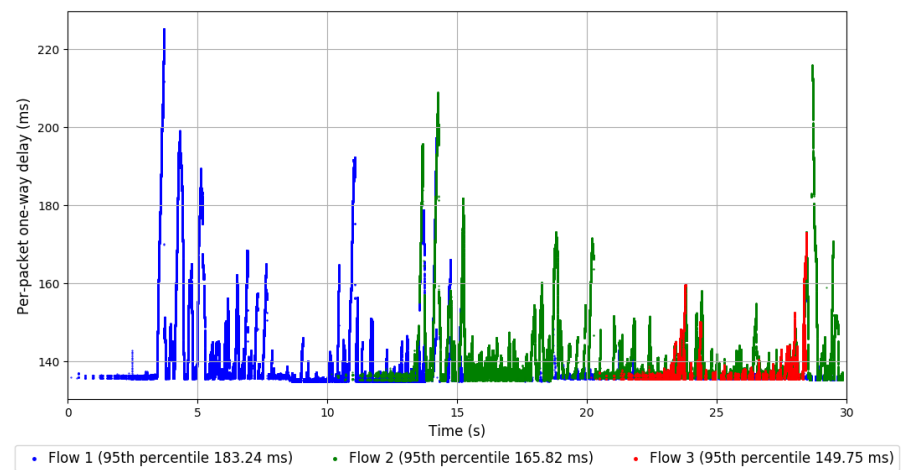
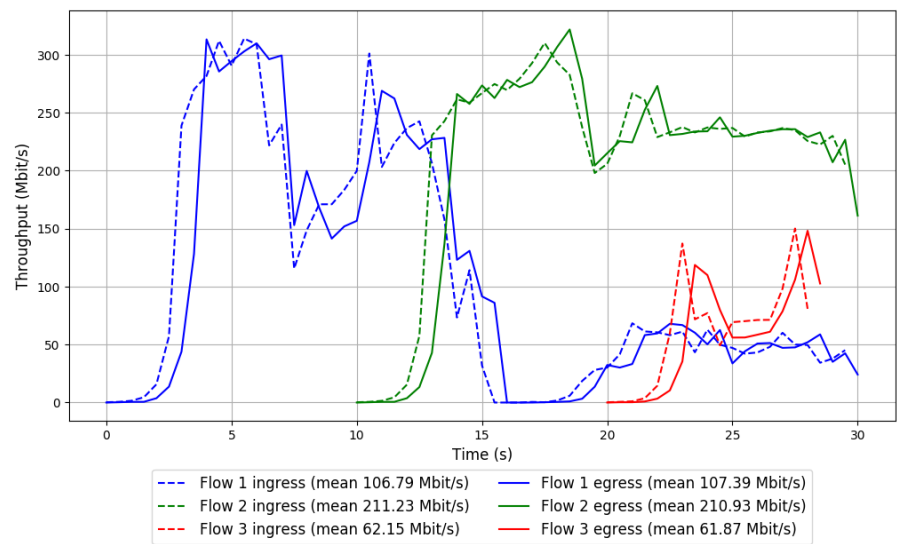
-- Flow 3:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 149.755 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

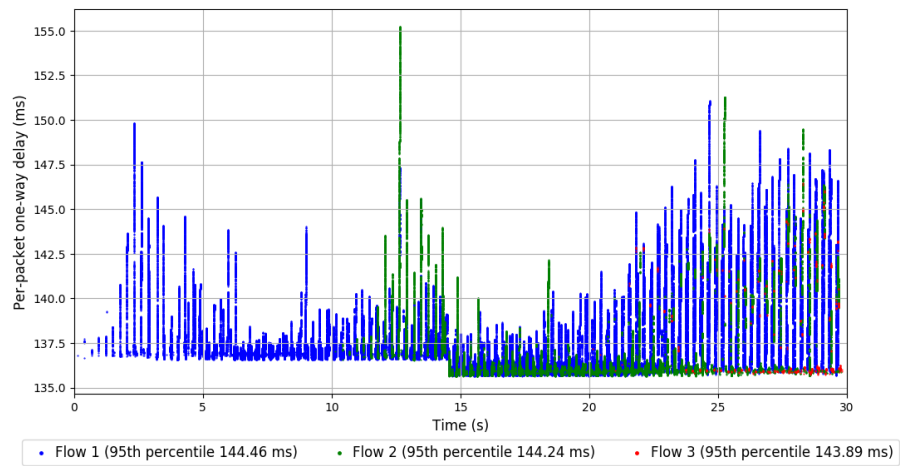
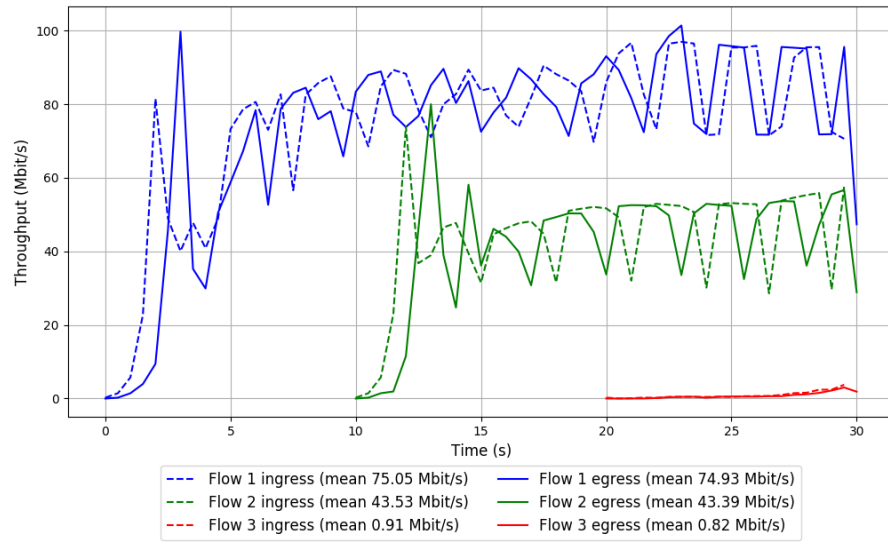


Run 1: Statistics of TCP Cubic

Start at: 2018-07-19 17:27:03
End at: 2018-07-19 17:27:33
Local clock offset: -0.164 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-07-19 22:18:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 103.50 Mbit/s
95th percentile per-packet one-way delay: 144.434 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 144.460 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: 144.241 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 143.893 ms
Loss rate: 12.81%

Run 1: Report of TCP Cubic — Data Link

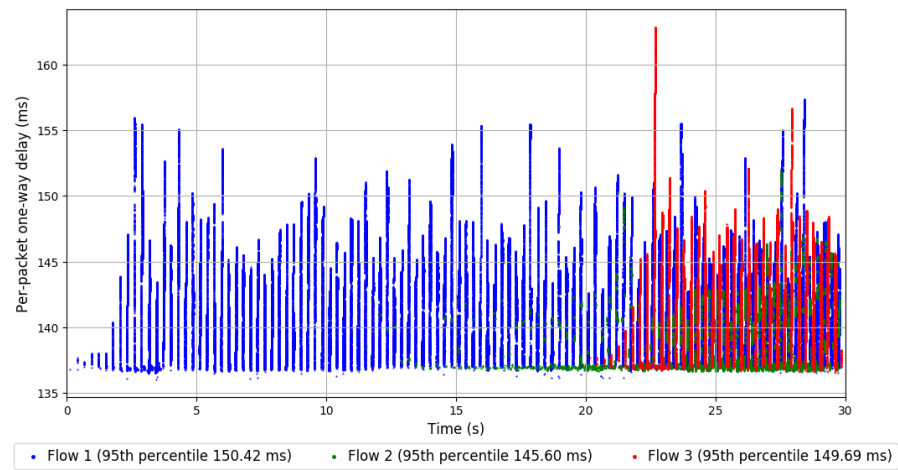
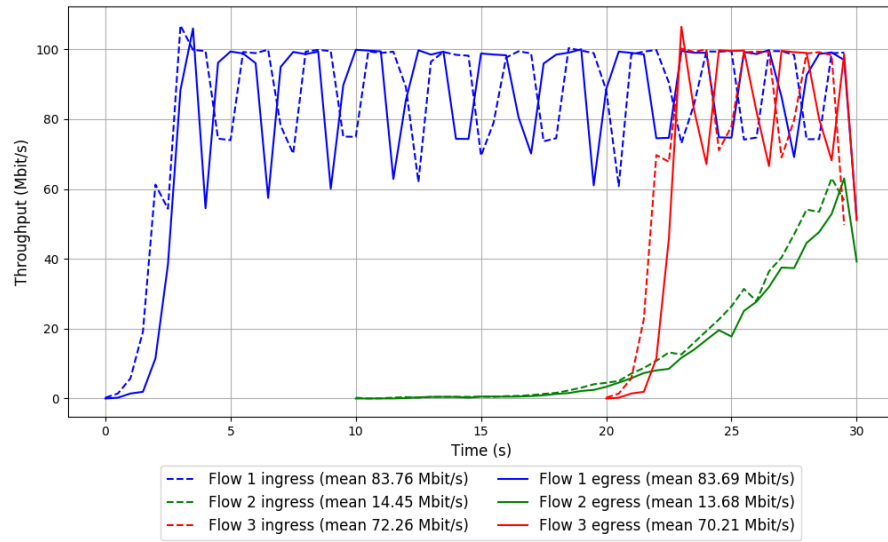


Run 2: Statistics of TCP Cubic

Start at: 2018-07-19 17:53:46
End at: 2018-07-19 17:54:16
Local clock offset: 0.122 ms
Remote clock offset: -0.424 ms

Below is generated by plot.py at 2018-07-19 22:18:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.45 Mbit/s
95th percentile per-packet one-way delay: 149.976 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 150.419 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 145.598 ms
Loss rate: 6.62%
-- Flow 3:
Average throughput: 70.21 Mbit/s
95th percentile per-packet one-way delay: 149.689 ms
Loss rate: 3.41%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-19 18:20:36

End at: 2018-07-19 18:21:06

Local clock offset: 0.031 ms

Remote clock offset: 0.255 ms

Below is generated by plot.py at 2018-07-19 22:18:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.25 Mbit/s

95th percentile per-packet one-way delay: 150.381 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 83.51 Mbit/s

95th percentile per-packet one-way delay: 150.914 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 143.271 ms

Loss rate: 1.69%

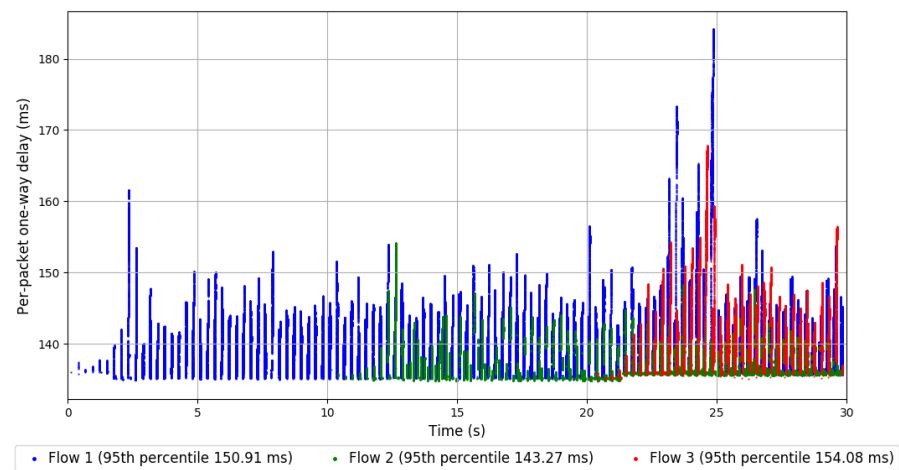
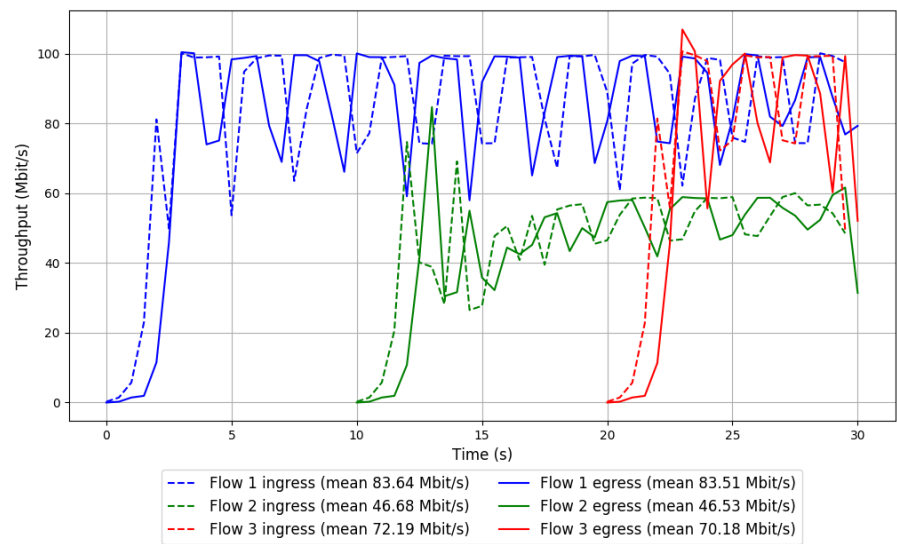
-- Flow 3:

Average throughput: 70.18 Mbit/s

95th percentile per-packet one-way delay: 154.082 ms

Loss rate: 3.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-19 18:47:48

End at: 2018-07-19 18:48:18

Local clock offset: -0.032 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-07-19 22:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 143.502 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 54.71 Mbit/s

95th percentile per-packet one-way delay: 144.864 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 40.40 Mbit/s

95th percentile per-packet one-way delay: 140.714 ms

Loss rate: 1.77%

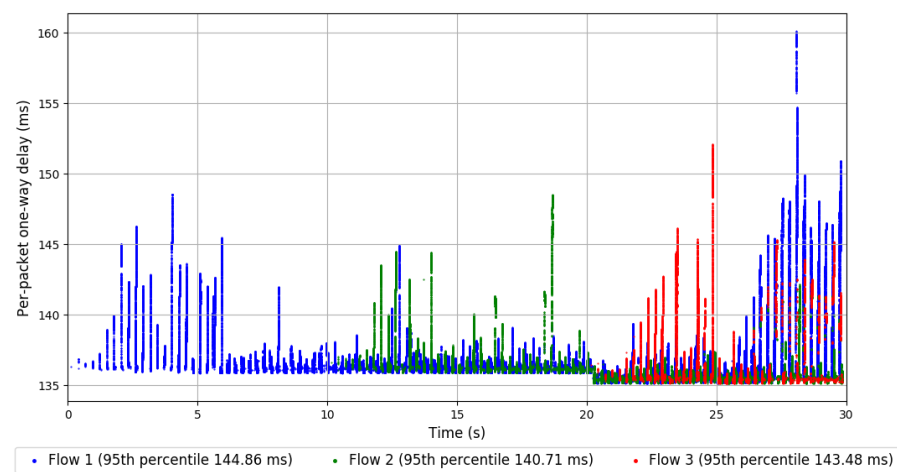
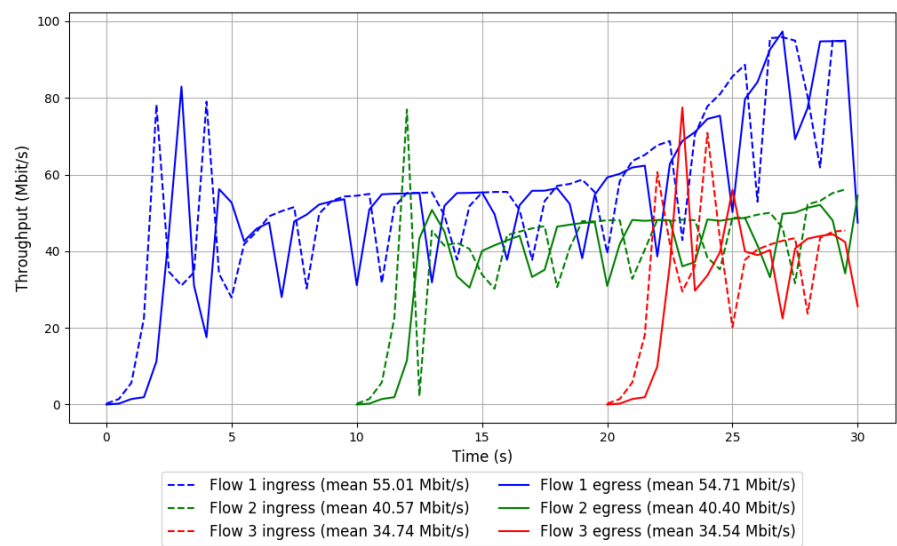
-- Flow 3:

Average throughput: 34.54 Mbit/s

95th percentile per-packet one-way delay: 143.477 ms

Loss rate: 3.30%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-19 19:14:48

End at: 2018-07-19 19:15:18

Local clock offset: -0.005 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2018-07-19 22:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.49 Mbit/s

95th percentile per-packet one-way delay: 149.098 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 58.73 Mbit/s

95th percentile per-packet one-way delay: 149.468 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 57.43 Mbit/s

95th percentile per-packet one-way delay: 148.642 ms

Loss rate: 1.41%

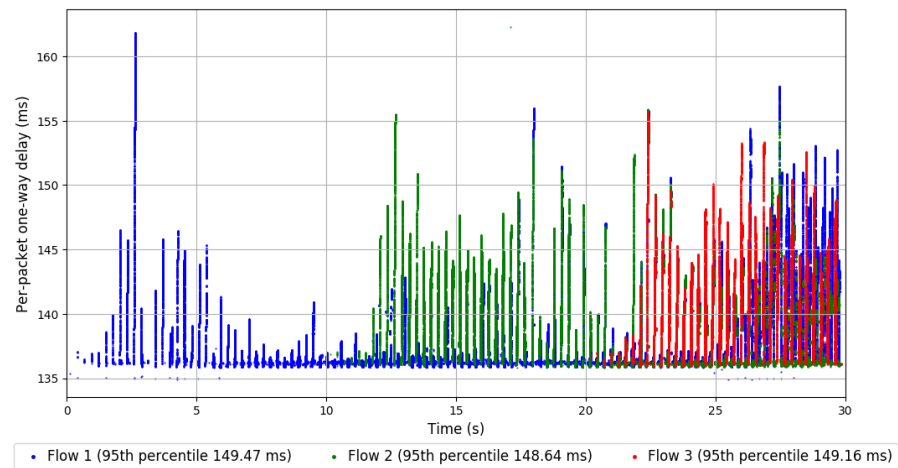
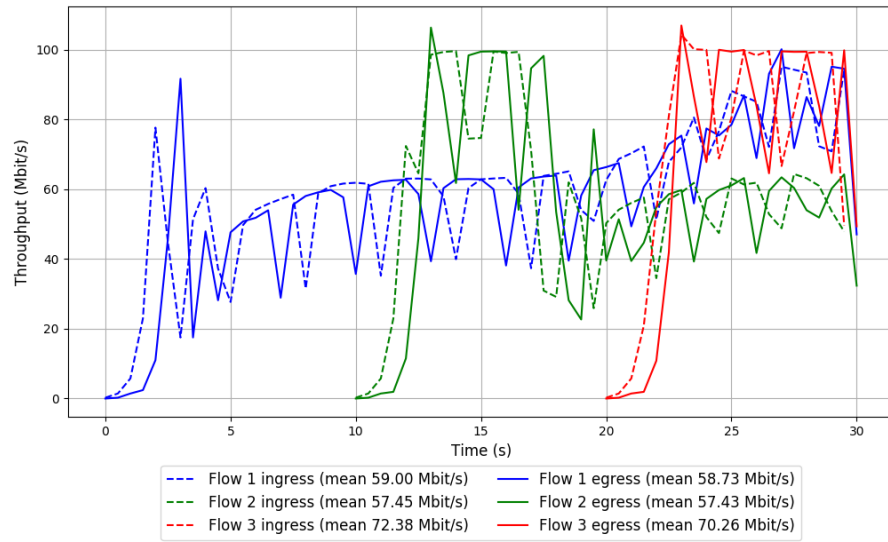
-- Flow 3:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 149.160 ms

Loss rate: 3.50%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-19 19:41:41

End at: 2018-07-19 19:42:11

Local clock offset: -0.07 ms

Remote clock offset: 5.101 ms

Below is generated by plot.py at 2018-07-19 22:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.36 Mbit/s

95th percentile per-packet one-way delay: 148.321 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 56.53 Mbit/s

95th percentile per-packet one-way delay: 146.775 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 81.39 Mbit/s

95th percentile per-packet one-way delay: 149.454 ms

Loss rate: 1.60%

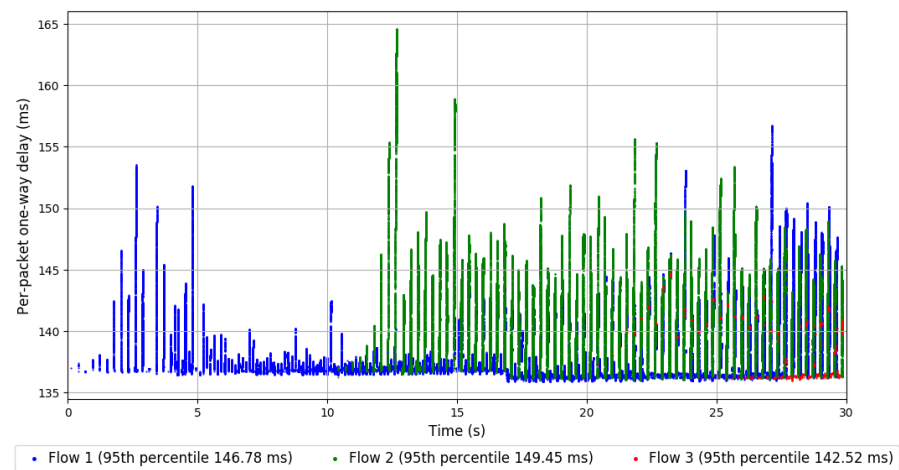
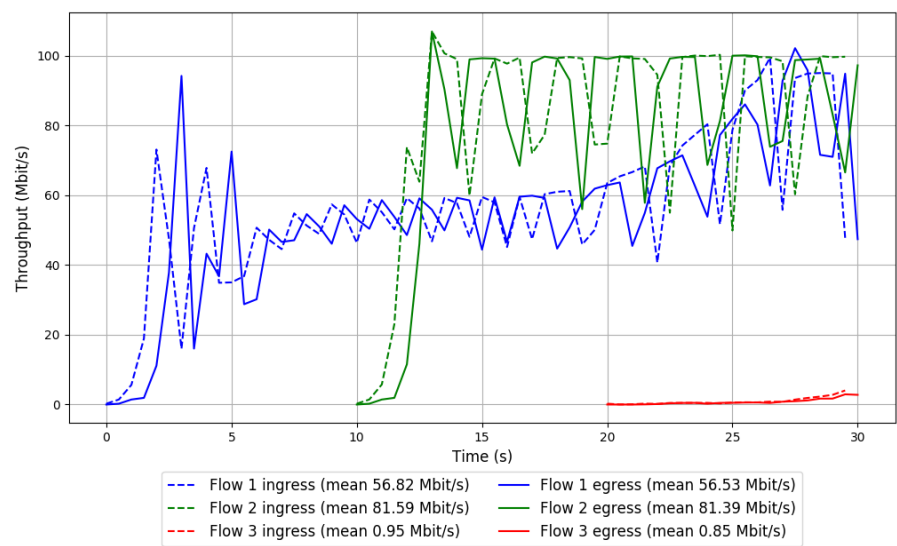
-- Flow 3:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 142.519 ms

Loss rate: 12.98%

Run 6: Report of TCP Cubic — Data Link

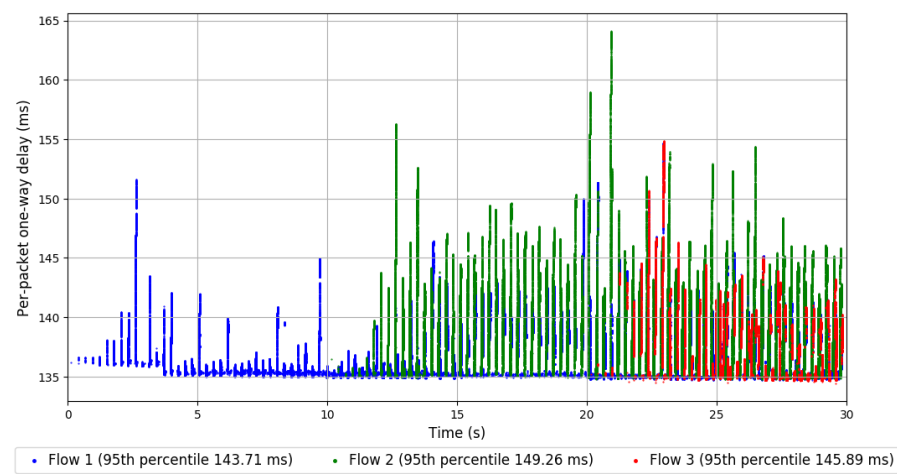
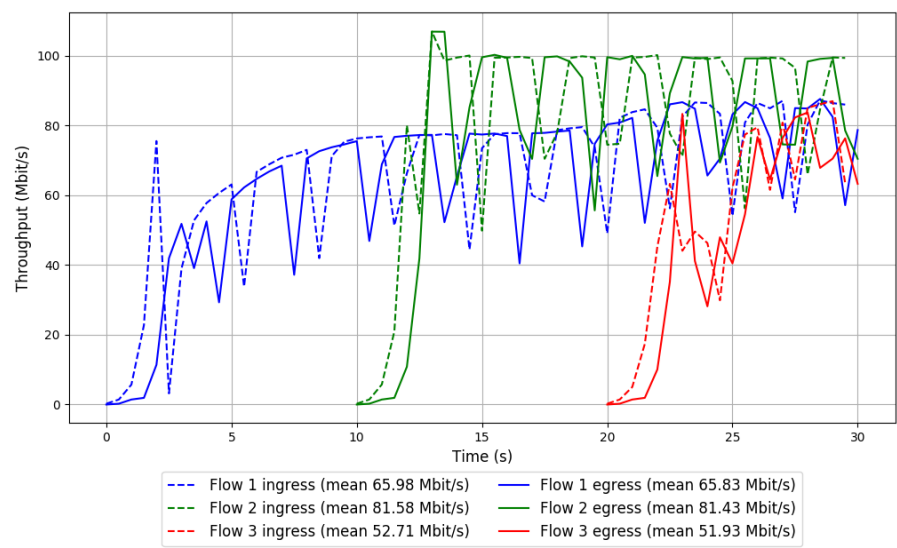


Run 7: Statistics of TCP Cubic

Start at: 2018-07-19 20:08:54
End at: 2018-07-19 20:09:24
Local clock offset: -0.104 ms
Remote clock offset: 11.083 ms

Below is generated by plot.py at 2018-07-19 22:18:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.64 Mbit/s
95th percentile per-packet one-way delay: 146.524 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 65.83 Mbit/s
95th percentile per-packet one-way delay: 143.711 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 81.43 Mbit/s
95th percentile per-packet one-way delay: 149.261 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 51.93 Mbit/s
95th percentile per-packet one-way delay: 145.892 ms
Loss rate: 4.18%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-19 20:36:11

End at: 2018-07-19 20:36:41

Local clock offset: -0.172 ms

Remote clock offset: 8.261 ms

Below is generated by plot.py at 2018-07-19 22:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.89 Mbit/s

95th percentile per-packet one-way delay: 149.956 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 148.060 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 80.44 Mbit/s

95th percentile per-packet one-way delay: 150.393 ms

Loss rate: 1.55%

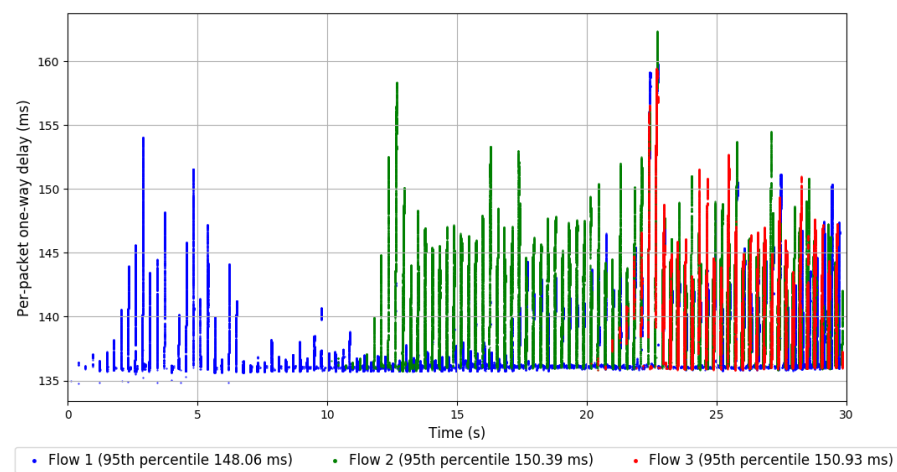
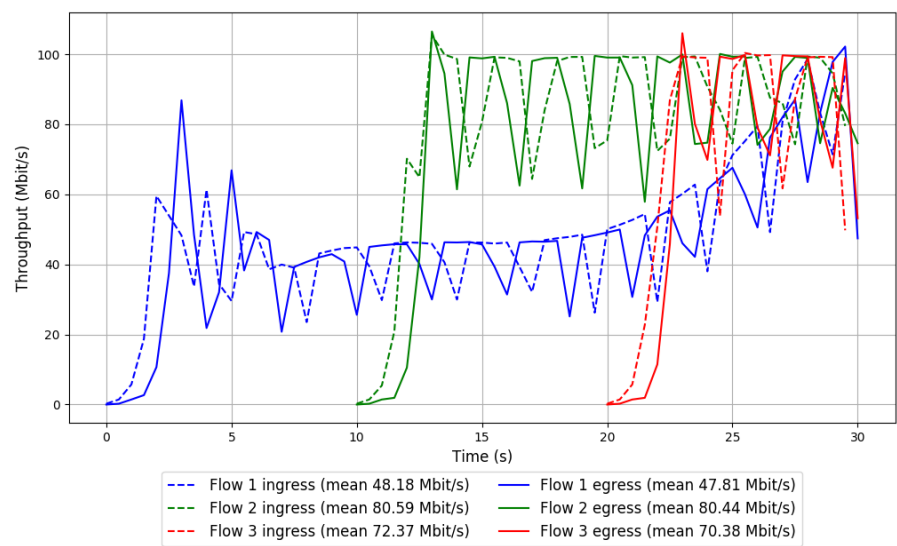
-- Flow 3:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 150.926 ms

Loss rate: 3.29%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-19 21:02:55

End at: 2018-07-19 21:03:25

Local clock offset: -0.228 ms

Remote clock offset: 3.215 ms

Below is generated by plot.py at 2018-07-19 22:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.56 Mbit/s

95th percentile per-packet one-way delay: 147.819 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 83.79 Mbit/s

95th percentile per-packet one-way delay: 147.343 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 146.155 ms

Loss rate: 1.79%

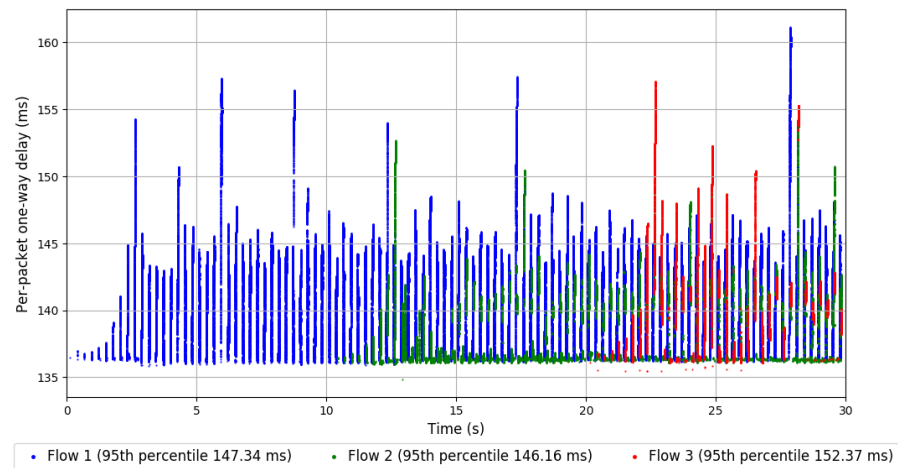
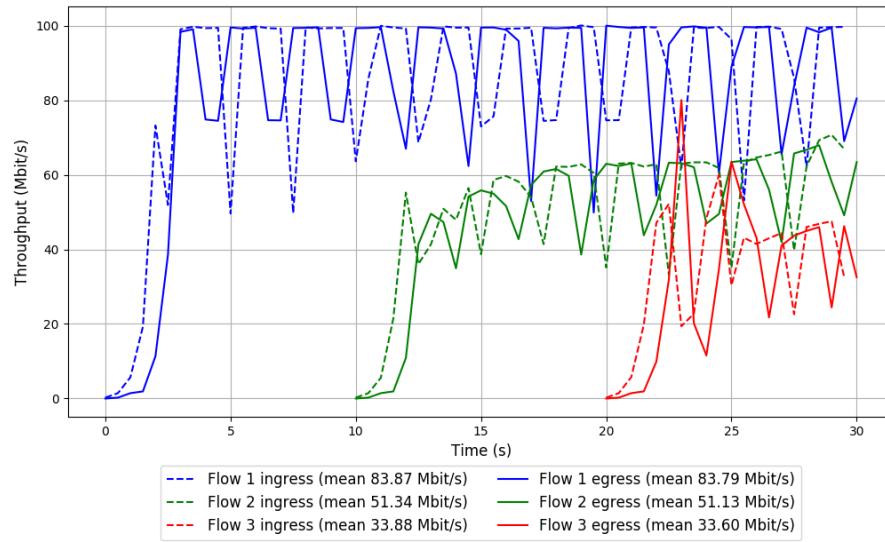
-- Flow 3:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 152.370 ms

Loss rate: 3.53%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-19 21:29:50

End at: 2018-07-19 21:30:20

Local clock offset: -0.06 ms

Remote clock offset: 1.077 ms

Below is generated by plot.py at 2018-07-19 22:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 143.241 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 47.46 Mbit/s

95th percentile per-packet one-way delay: 143.722 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 142.898 ms

Loss rate: 1.60%

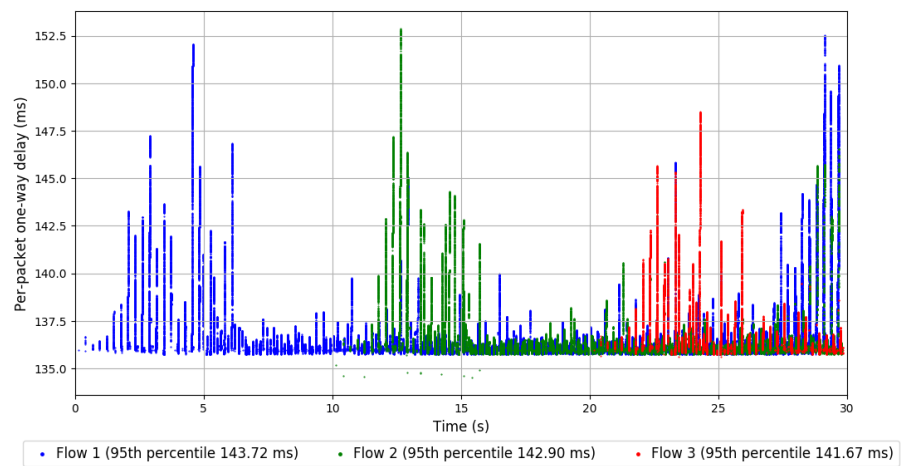
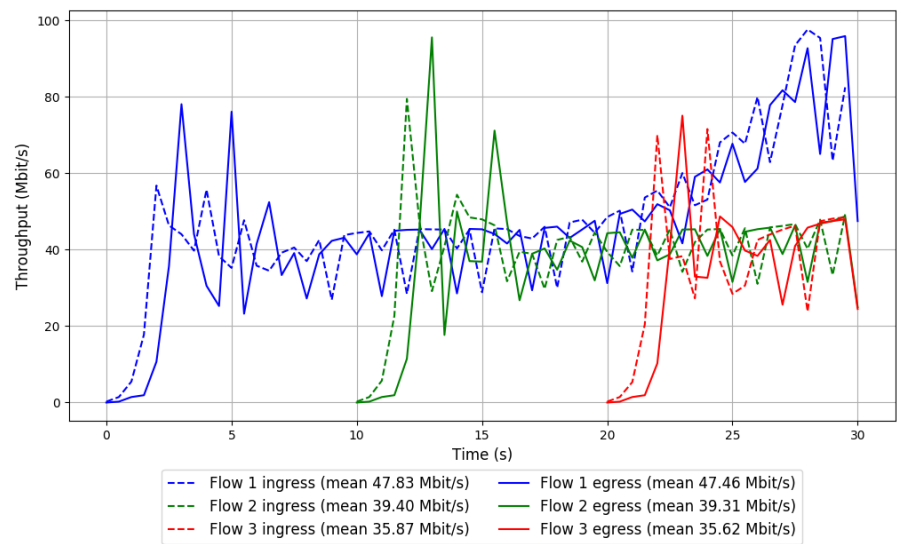
-- Flow 3:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 141.674 ms

Loss rate: 3.41%

Run 10: Report of TCP Cubic — Data Link

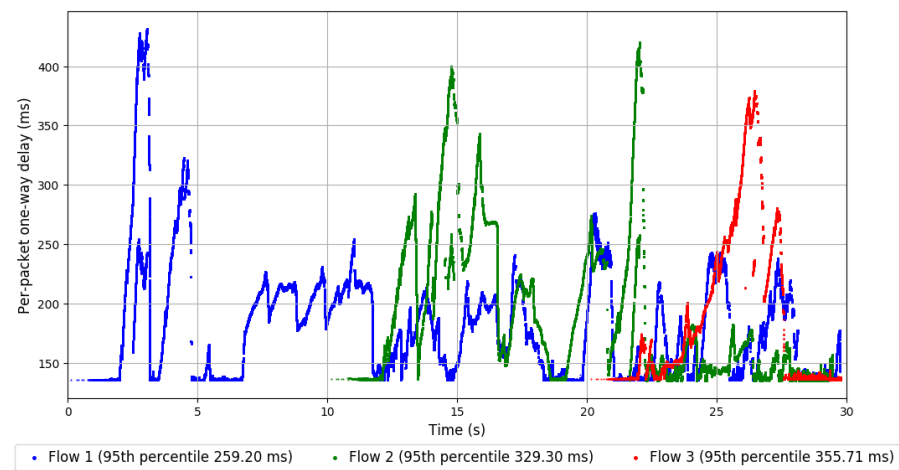
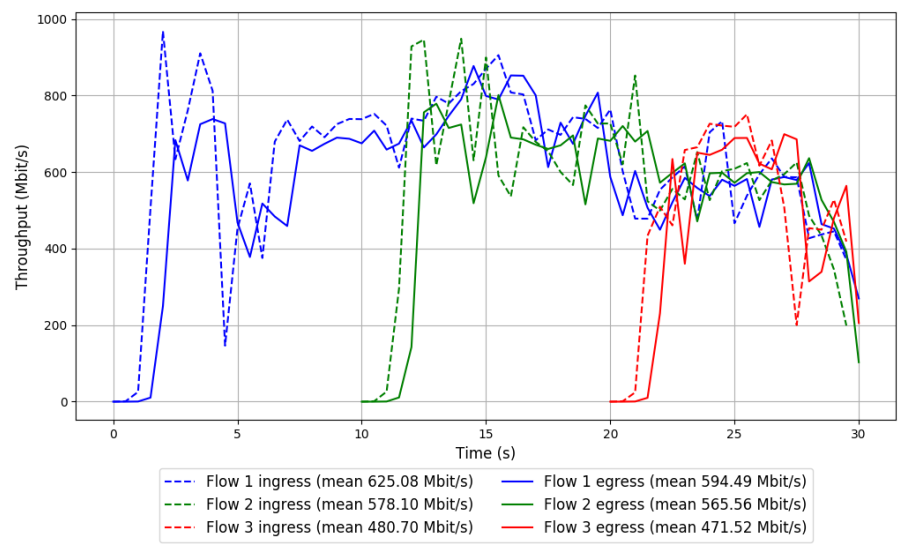


Run 1: Statistics of FillP

Start at: 2018-07-19 17:22:08
End at: 2018-07-19 17:22:38
Local clock offset: -0.449 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-07-19 22:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 1122.48 Mbit/s
95th percentile per-packet one-way delay: 298.562 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 594.49 Mbit/s
95th percentile per-packet one-way delay: 259.205 ms
Loss rate: 5.76%
-- Flow 2:
Average throughput: 565.56 Mbit/s
95th percentile per-packet one-way delay: 329.299 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 471.52 Mbit/s
95th percentile per-packet one-way delay: 355.714 ms
Loss rate: 4.62%

Run 1: Report of FillP — Data Link

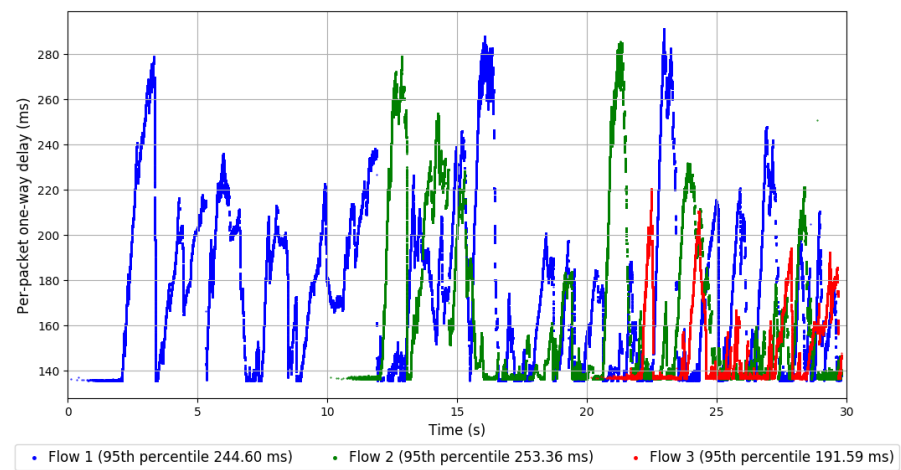
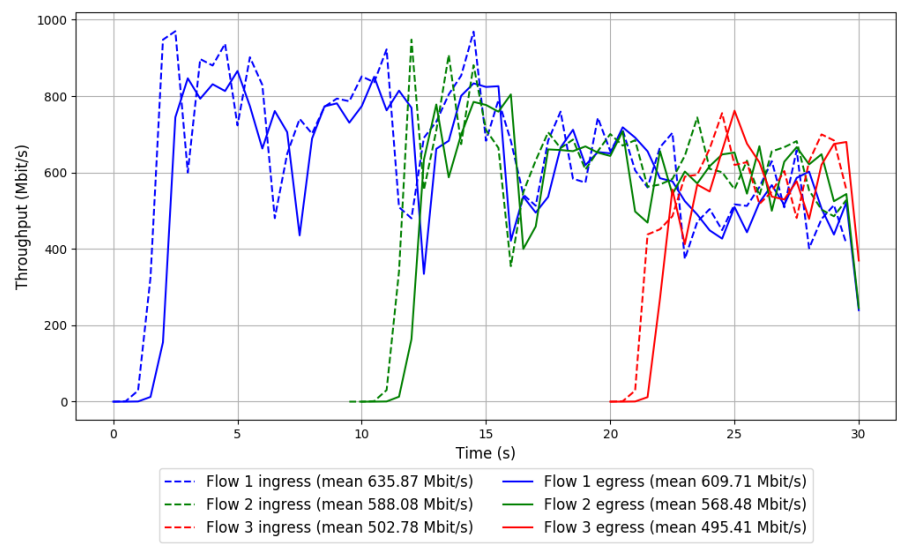


Run 2: Statistics of FillP

Start at: 2018-07-19 17:48:48
End at: 2018-07-19 17:49:18
Local clock offset: -0.153 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-07-19 22:42:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1147.56 Mbit/s
95th percentile per-packet one-way delay: 243.298 ms
Loss rate: 4.78%
-- Flow 1:
Average throughput: 609.71 Mbit/s
95th percentile per-packet one-way delay: 244.598 ms
Loss rate: 4.99%
-- Flow 2:
Average throughput: 568.48 Mbit/s
95th percentile per-packet one-way delay: 253.360 ms
Loss rate: 4.67%
-- Flow 3:
Average throughput: 495.41 Mbit/s
95th percentile per-packet one-way delay: 191.588 ms
Loss rate: 4.19%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-19 18:15:38

End at: 2018-07-19 18:16:08

Local clock offset: 0.032 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-07-19 22:42:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 1127.53 Mbit/s

95th percentile per-packet one-way delay: 290.353 ms

Loss rate: 5.57%

-- Flow 1:

Average throughput: 616.48 Mbit/s

95th percentile per-packet one-way delay: 277.696 ms

Loss rate: 5.05%

-- Flow 2:

Average throughput: 575.33 Mbit/s

95th percentile per-packet one-way delay: 261.799 ms

Loss rate: 5.77%

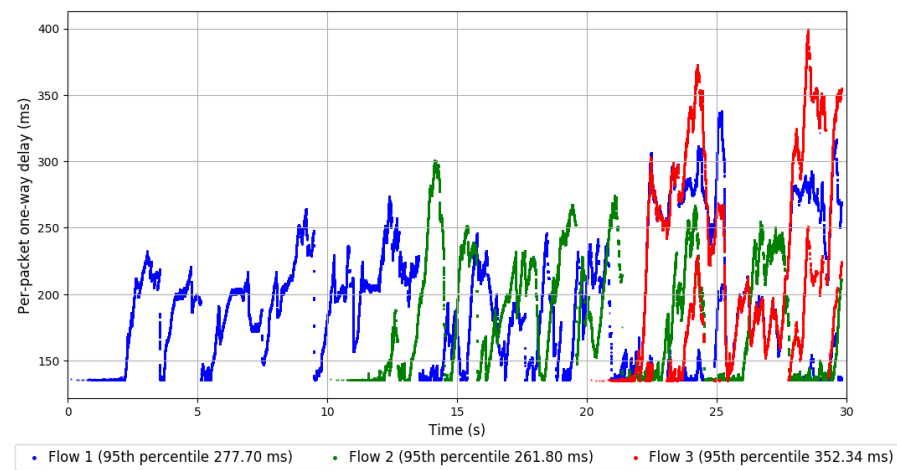
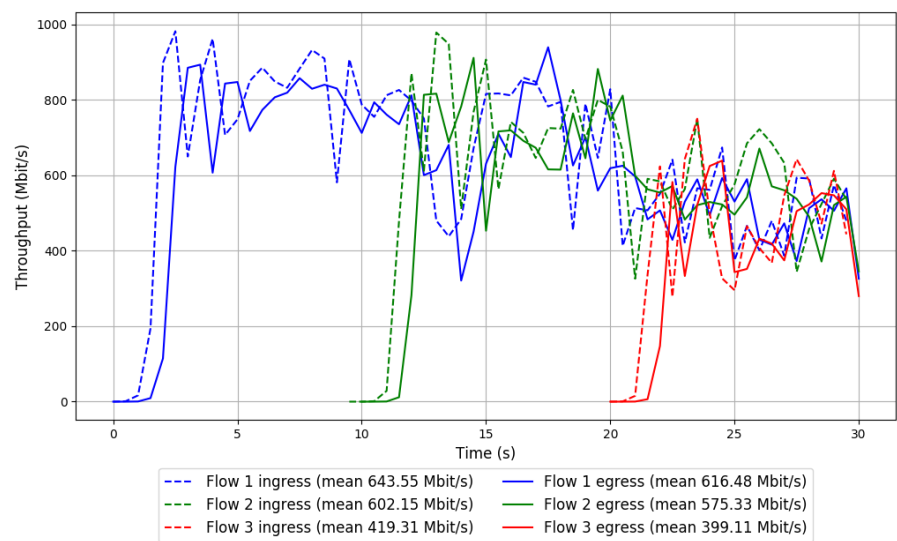
-- Flow 3:

Average throughput: 399.11 Mbit/s

95th percentile per-packet one-way delay: 352.344 ms

Loss rate: 7.44%

Run 3: Report of FillP — Data Link

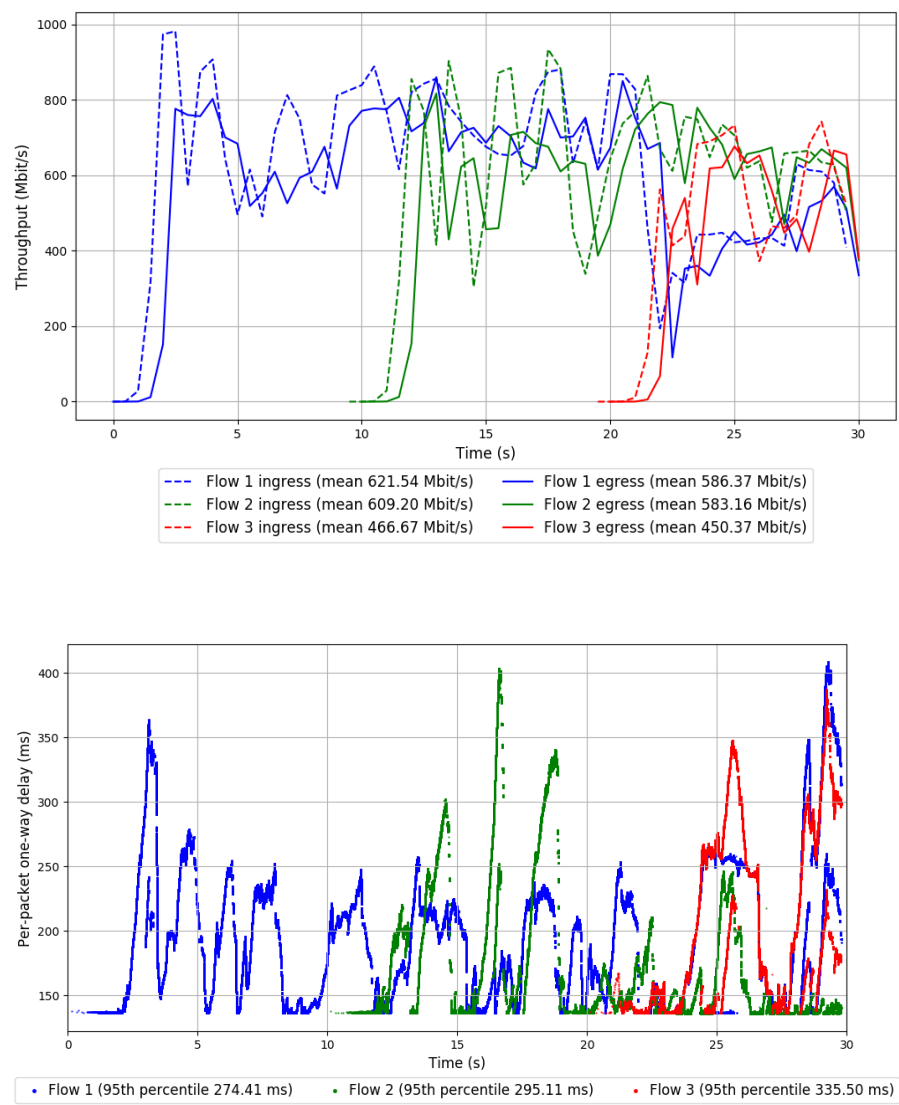


Run 4: Statistics of FillP

Start at: 2018-07-19 18:42:55
End at: 2018-07-19 18:43:25
Local clock offset: -0.015 ms
Remote clock offset: -0.438 ms

Below is generated by plot.py at 2018-07-19 22:42:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1119.59 Mbit/s
95th percentile per-packet one-way delay: 304.490 ms
Loss rate: 6.16%
-- Flow 1:
Average throughput: 586.37 Mbit/s
95th percentile per-packet one-way delay: 274.412 ms
Loss rate: 6.53%
-- Flow 2:
Average throughput: 583.16 Mbit/s
95th percentile per-packet one-way delay: 295.108 ms
Loss rate: 5.60%
-- Flow 3:
Average throughput: 450.37 Mbit/s
95th percentile per-packet one-way delay: 335.501 ms
Loss rate: 6.16%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-19 19:09:52

End at: 2018-07-19 19:10:22

Local clock offset: -0.183 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2018-07-19 22:42:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1119.97 Mbit/s

95th percentile per-packet one-way delay: 232.429 ms

Loss rate: 4.88%

-- Flow 1:

Average throughput: 604.33 Mbit/s

95th percentile per-packet one-way delay: 243.127 ms

Loss rate: 6.72%

-- Flow 2:

Average throughput: 543.64 Mbit/s

95th percentile per-packet one-way delay: 213.623 ms

Loss rate: 2.49%

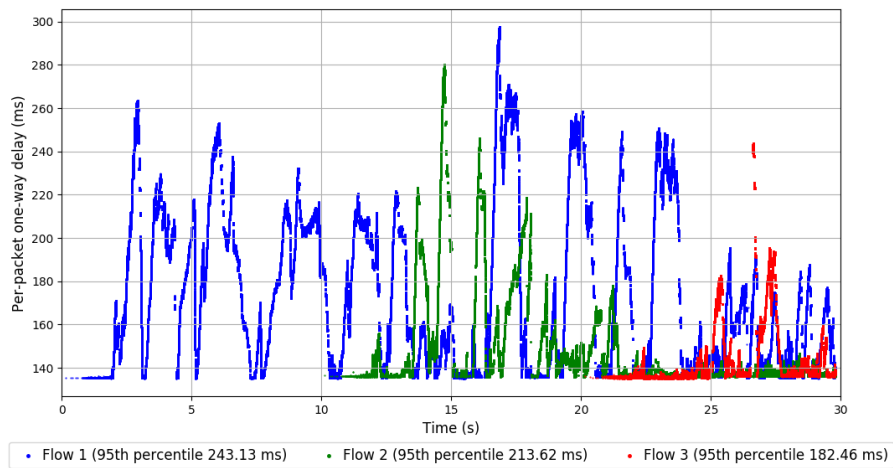
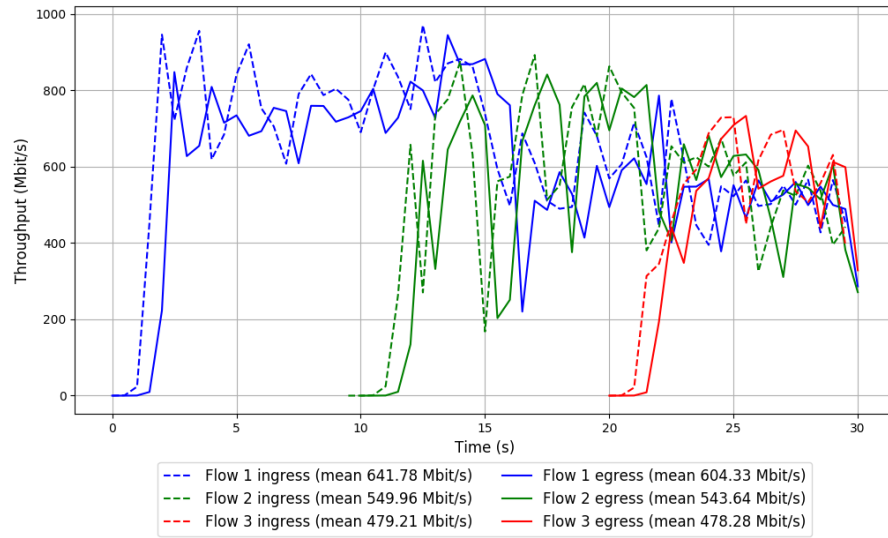
-- Flow 3:

Average throughput: 478.28 Mbit/s

95th percentile per-packet one-way delay: 182.457 ms

Loss rate: 2.96%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-19 19:36:50

End at: 2018-07-19 19:37:20

Local clock offset: -0.047 ms

Remote clock offset: 3.05 ms

Below is generated by plot.py at 2018-07-19 22:42:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1095.56 Mbit/s

95th percentile per-packet one-way delay: 307.935 ms

Loss rate: 7.44%

-- Flow 1:

Average throughput: 584.44 Mbit/s

95th percentile per-packet one-way delay: 277.221 ms

Loss rate: 7.09%

-- Flow 2:

Average throughput: 568.61 Mbit/s

95th percentile per-packet one-way delay: 346.680 ms

Loss rate: 7.89%

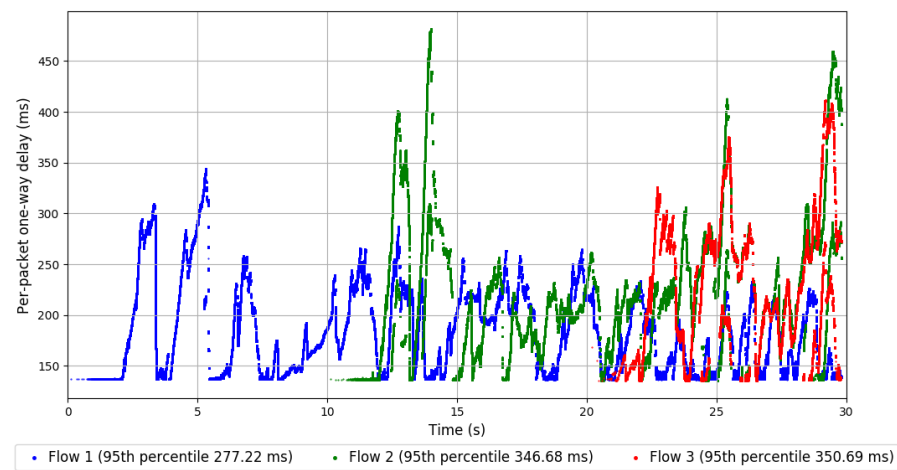
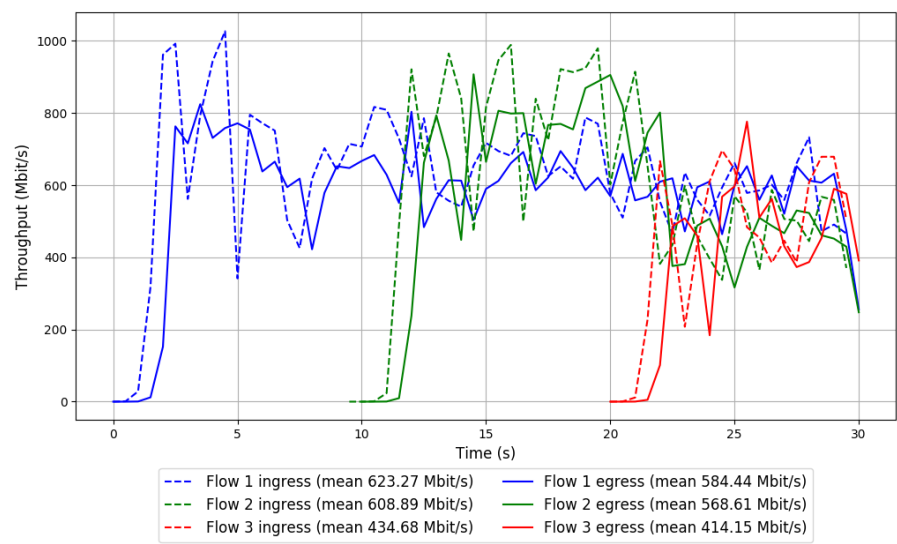
-- Flow 3:

Average throughput: 414.15 Mbit/s

95th percentile per-packet one-way delay: 350.693 ms

Loss rate: 7.66%

Run 6: Report of FillP — Data Link

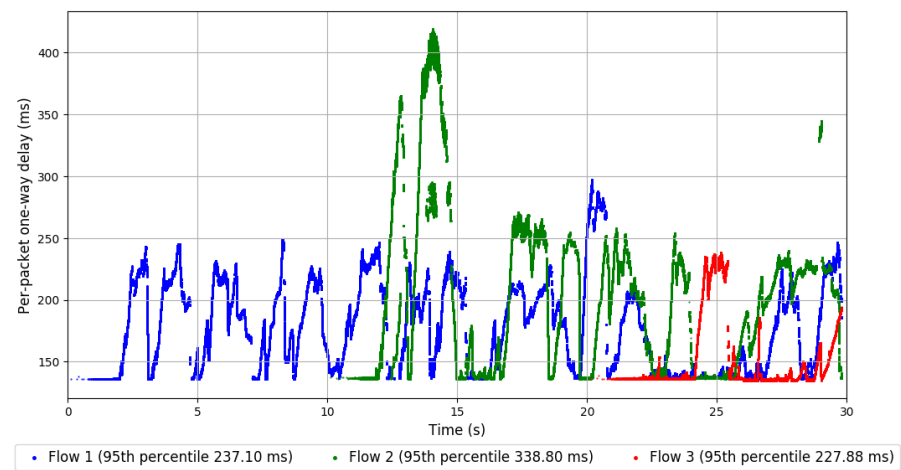
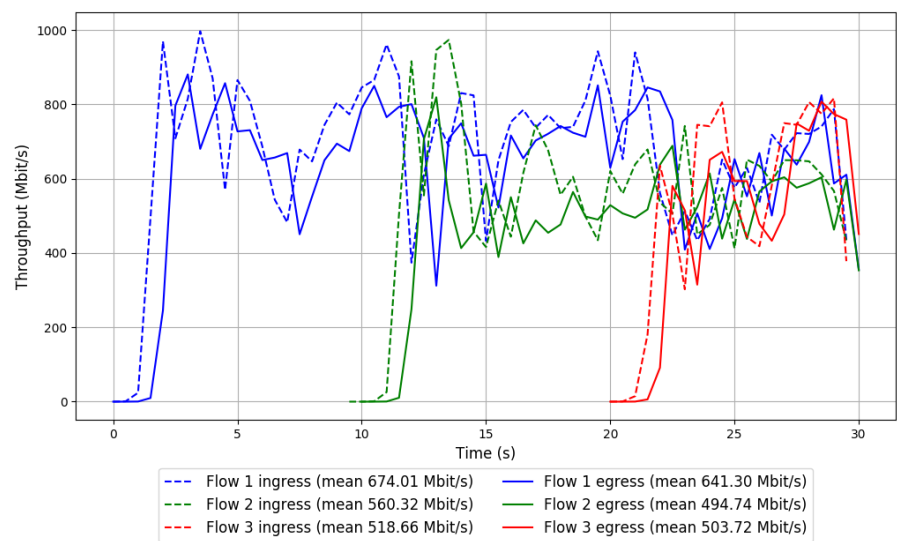


Run 7: Statistics of FillP

Start at: 2018-07-19 20:04:02
End at: 2018-07-19 20:04:32
Local clock offset: -0.15 ms
Remote clock offset: 16.055 ms

Below is generated by plot.py at 2018-07-19 22:44:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 1132.79 Mbit/s
95th percentile per-packet one-way delay: 259.559 ms
Loss rate: 7.79%
-- Flow 1:
Average throughput: 641.30 Mbit/s
95th percentile per-packet one-way delay: 237.096 ms
Loss rate: 5.72%
-- Flow 2:
Average throughput: 494.74 Mbit/s
95th percentile per-packet one-way delay: 338.795 ms
Loss rate: 12.91%
-- Flow 3:
Average throughput: 503.72 Mbit/s
95th percentile per-packet one-way delay: 227.883 ms
Loss rate: 4.78%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-19 20:31:13

End at: 2018-07-19 20:31:43

Local clock offset: -0.286 ms

Remote clock offset: 6.666 ms

Below is generated by plot.py at 2018-07-19 22:47:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 1217.61 Mbit/s

95th percentile per-packet one-way delay: 265.027 ms

Loss rate: 3.75%

-- Flow 1:

Average throughput: 683.79 Mbit/s

95th percentile per-packet one-way delay: 293.625 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 578.43 Mbit/s

95th percentile per-packet one-way delay: 228.970 ms

Loss rate: 5.60%

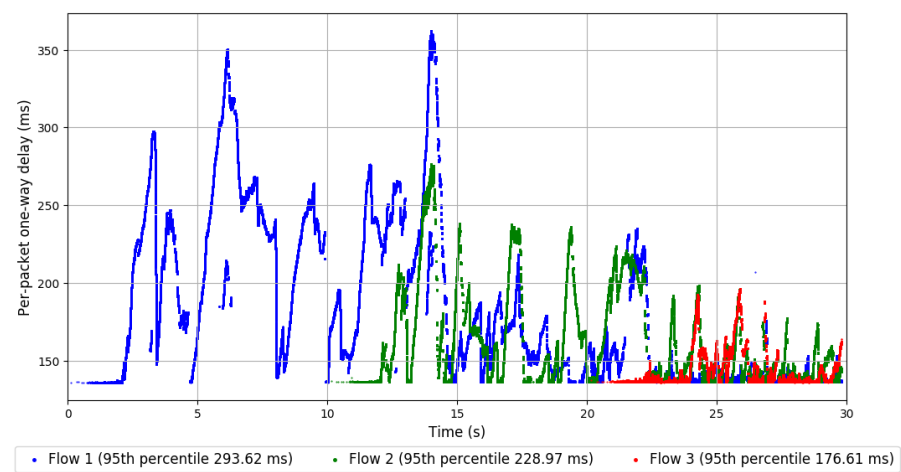
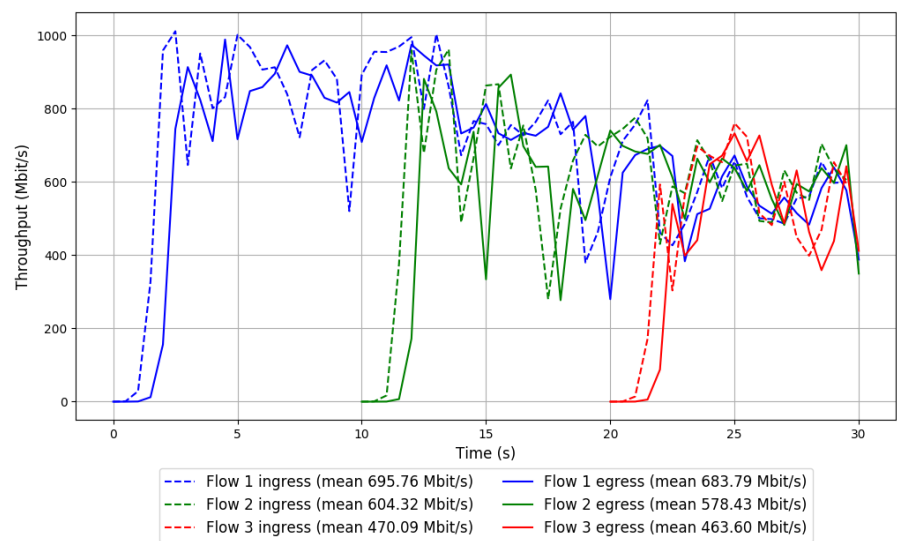
-- Flow 3:

Average throughput: 463.60 Mbit/s

95th percentile per-packet one-way delay: 176.612 ms

Loss rate: 4.09%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-19 20:58:07

End at: 2018-07-19 20:58:37

Local clock offset: 0.038 ms

Remote clock offset: 3.434 ms

Below is generated by plot.py at 2018-07-19 23:07:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 1062.56 Mbit/s

95th percentile per-packet one-way delay: 258.624 ms

Loss rate: 7.18%

-- Flow 1:

Average throughput: 575.08 Mbit/s

95th percentile per-packet one-way delay: 250.659 ms

Loss rate: 7.32%

-- Flow 2:

Average throughput: 524.86 Mbit/s

95th percentile per-packet one-way delay: 278.242 ms

Loss rate: 6.14%

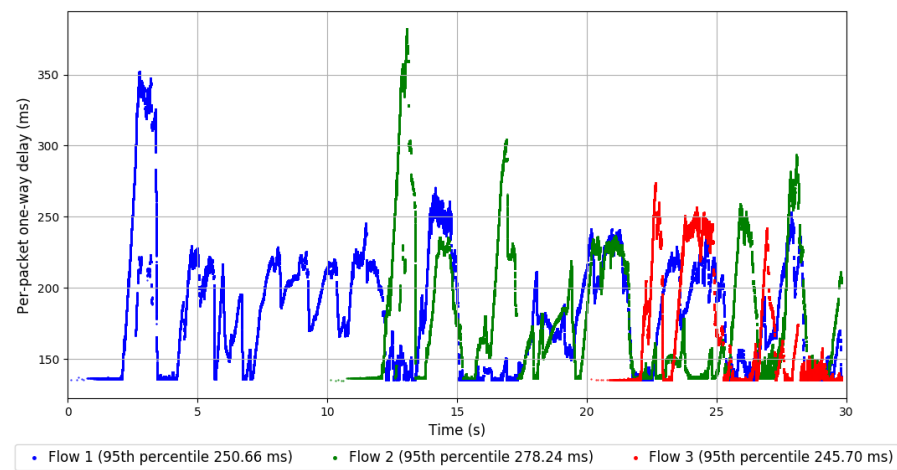
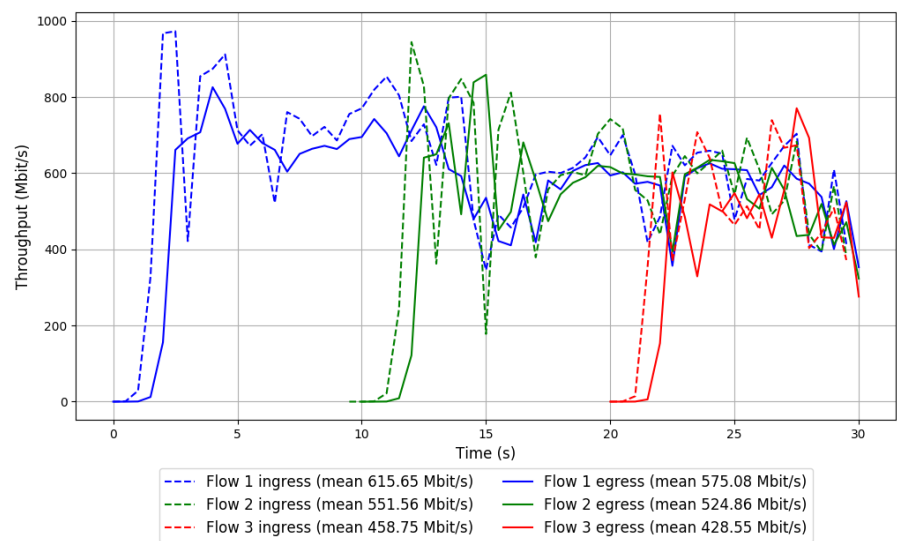
-- Flow 3:

Average throughput: 428.55 Mbit/s

95th percentile per-packet one-way delay: 245.700 ms

Loss rate: 9.15%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-19 21:24:58

End at: 2018-07-19 21:25:28

Local clock offset: 0.212 ms

Remote clock offset: 1.118 ms

Below is generated by plot.py at 2018-07-19 23:08:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 1080.19 Mbit/s

95th percentile per-packet one-way delay: 247.296 ms

Loss rate: 9.42%

-- Flow 1:

Average throughput: 612.84 Mbit/s

95th percentile per-packet one-way delay: 226.804 ms

Loss rate: 7.46%

-- Flow 2:

Average throughput: 471.80 Mbit/s

95th percentile per-packet one-way delay: 278.091 ms

Loss rate: 13.45%

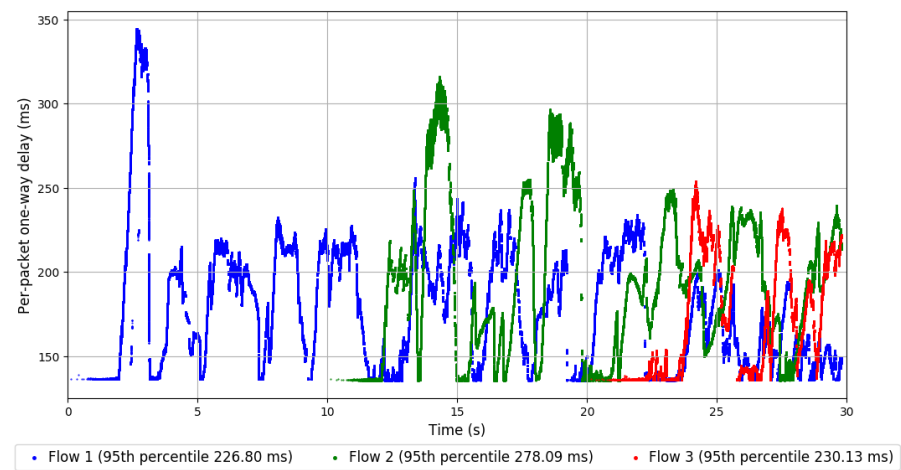
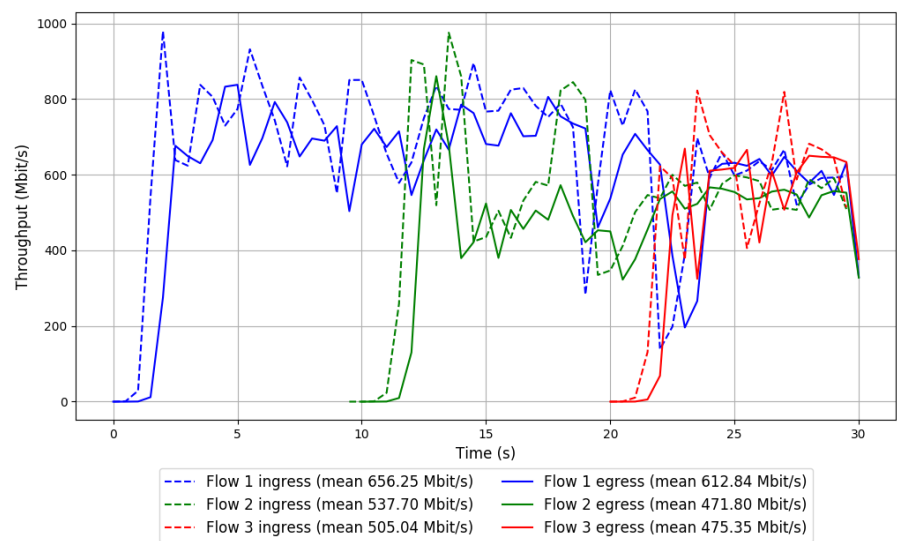
-- Flow 3:

Average throughput: 475.35 Mbit/s

95th percentile per-packet one-way delay: 230.126 ms

Loss rate: 8.47%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-19 17:29:40

End at: 2018-07-19 17:30:10

Local clock offset: -0.056 ms

Remote clock offset: 0.274 ms

Below is generated by plot.py at 2018-07-19 23:08:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 1010.42 Mbit/s

95th percentile per-packet one-way delay: 250.726 ms

Loss rate: 4.45%

-- Flow 1:

Average throughput: 540.12 Mbit/s

95th percentile per-packet one-way delay: 250.601 ms

Loss rate: 5.93%

-- Flow 2:

Average throughput: 513.28 Mbit/s

95th percentile per-packet one-way delay: 257.191 ms

Loss rate: 1.83%

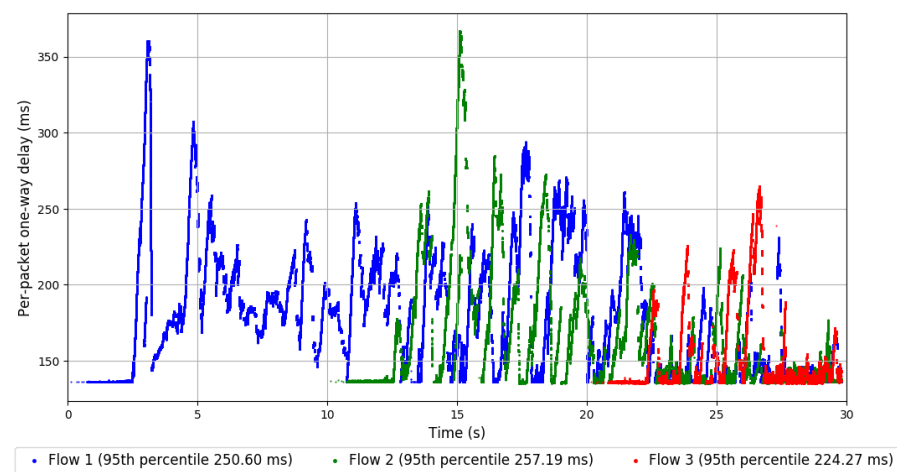
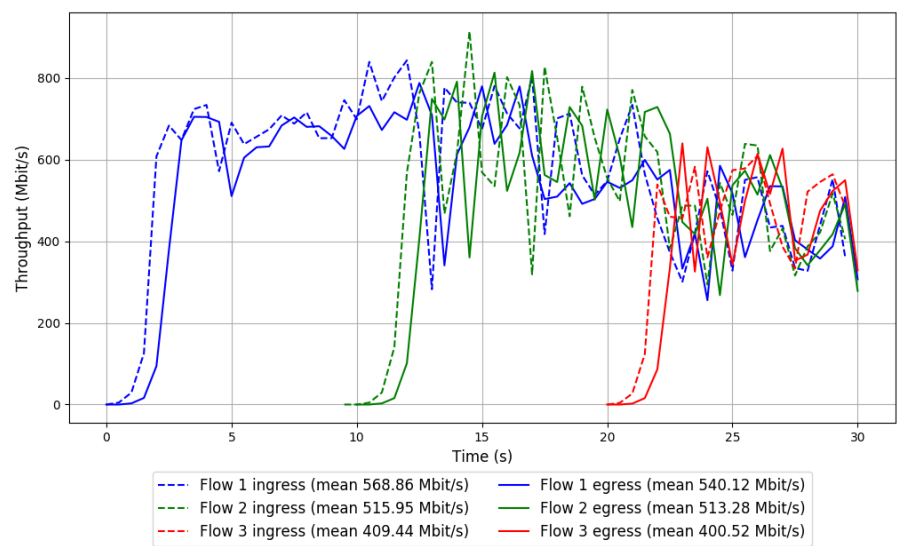
-- Flow 3:

Average throughput: 400.52 Mbit/s

95th percentile per-packet one-way delay: 224.269 ms

Loss rate: 4.86%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-19 17:56:25

End at: 2018-07-19 17:56:55

Local clock offset: 0.008 ms

Remote clock offset: 0.288 ms

Below is generated by plot.py at 2018-07-19 23:08:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 1085.08 Mbit/s

95th percentile per-packet one-way delay: 249.235 ms

Loss rate: 4.68%

-- Flow 1:

Average throughput: 619.31 Mbit/s

95th percentile per-packet one-way delay: 234.526 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 516.12 Mbit/s

95th percentile per-packet one-way delay: 269.168 ms

Loss rate: 6.79%

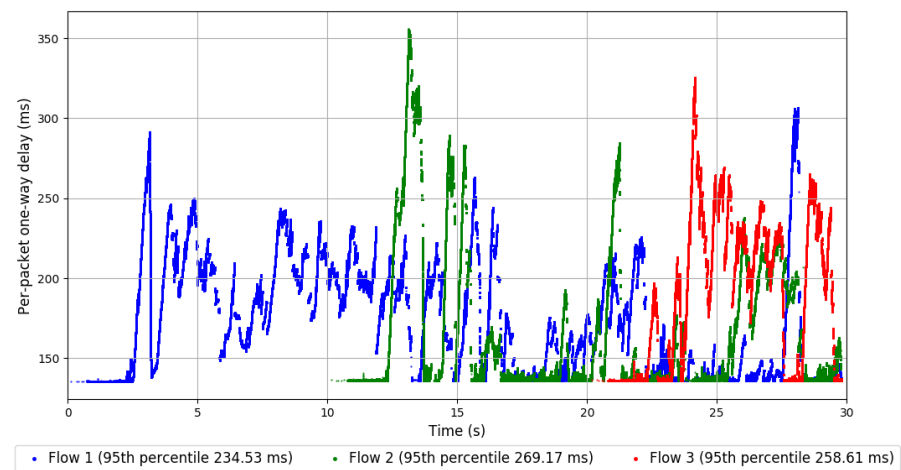
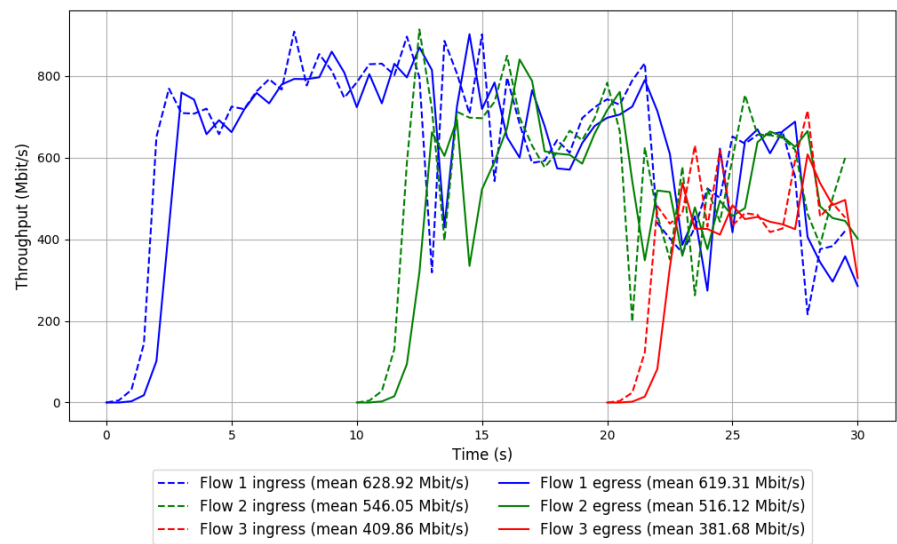
-- Flow 3:

Average throughput: 381.68 Mbit/s

95th percentile per-packet one-way delay: 258.608 ms

Loss rate: 9.45%

Run 2: Report of FillP-Sheep — Data Link

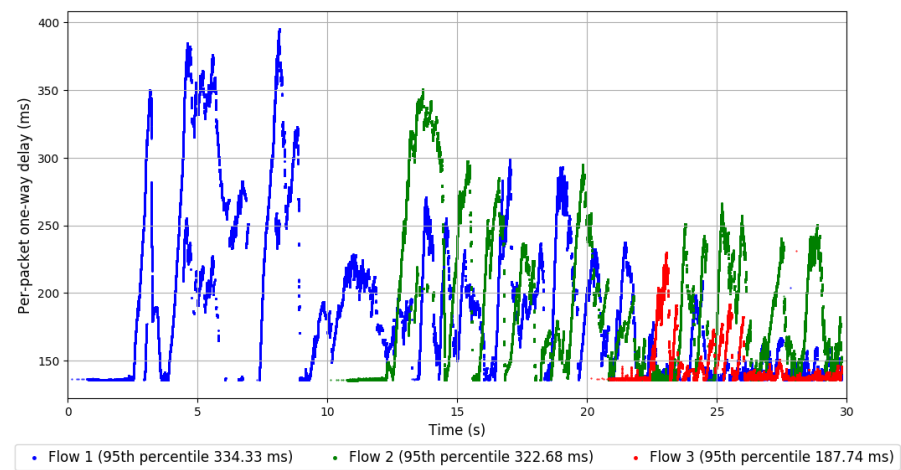
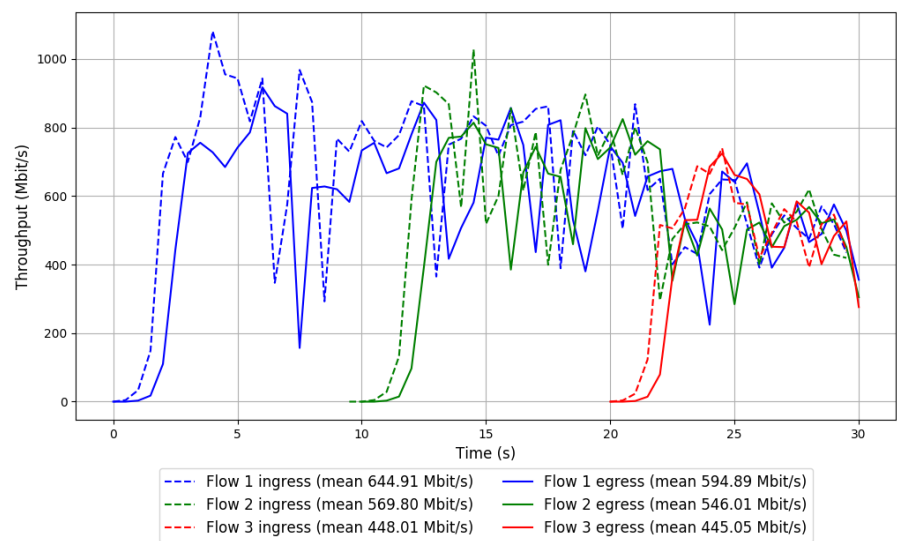


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-19 18:23:17
End at: 2018-07-19 18:23:47
Local clock offset: -0.016 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-07-19 23:09:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 1101.38 Mbit/s
95th percentile per-packet one-way delay: 322.133 ms
Loss rate: 6.91%
-- Flow 1:
Average throughput: 594.89 Mbit/s
95th percentile per-packet one-way delay: 334.332 ms
Loss rate: 8.55%
-- Flow 2:
Average throughput: 546.01 Mbit/s
95th percentile per-packet one-way delay: 322.677 ms
Loss rate: 5.49%
-- Flow 3:
Average throughput: 445.05 Mbit/s
95th percentile per-packet one-way delay: 187.736 ms
Loss rate: 3.43%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-19 18:50:24

End at: 2018-07-19 18:50:54

Local clock offset: 0.003 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-07-19 23:09:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 1020.67 Mbit/s

95th percentile per-packet one-way delay: 228.891 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 542.51 Mbit/s

95th percentile per-packet one-way delay: 236.568 ms

Loss rate: 2.85%

-- Flow 2:

Average throughput: 523.07 Mbit/s

95th percentile per-packet one-way delay: 217.678 ms

Loss rate: 3.48%

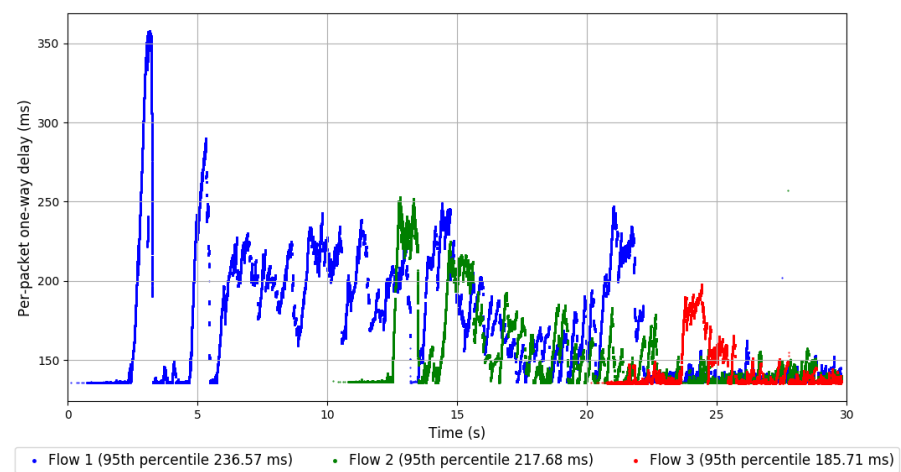
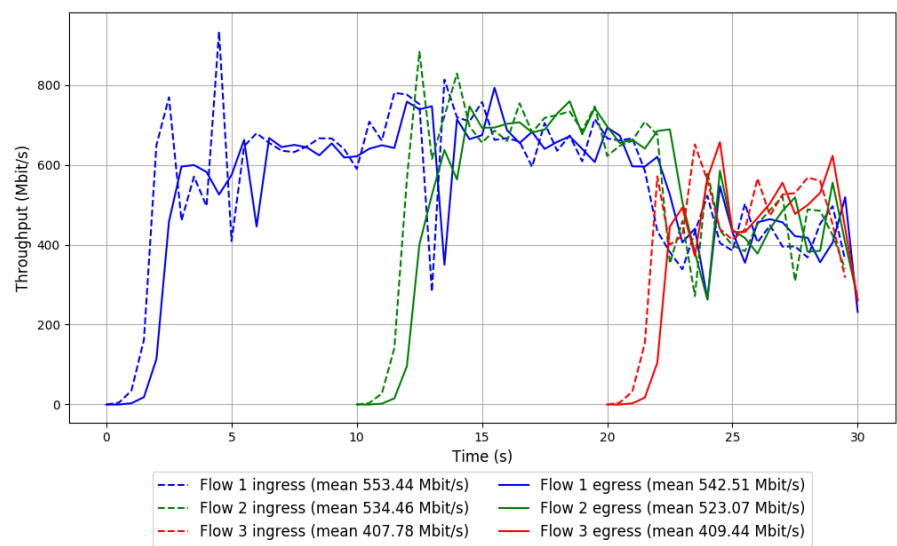
-- Flow 3:

Average throughput: 409.44 Mbit/s

95th percentile per-packet one-way delay: 185.705 ms

Loss rate: 2.44%

Run 4: Report of FillP-Sheep — Data Link

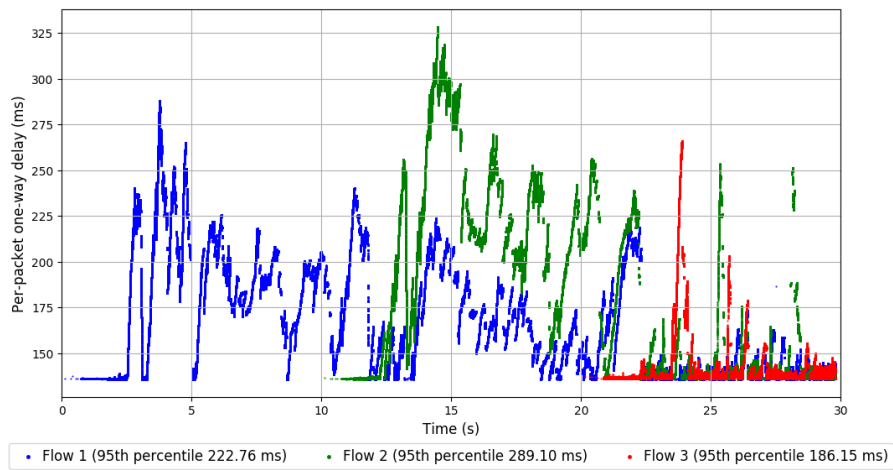
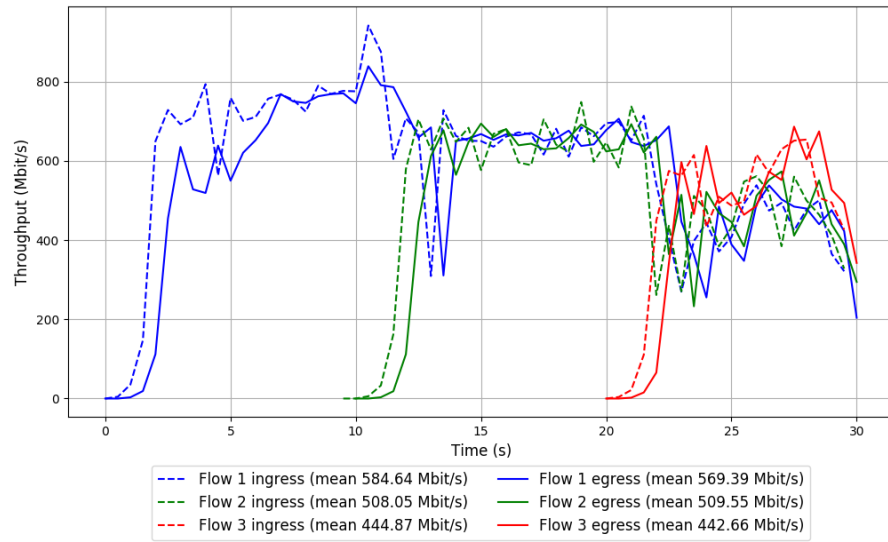


Run 5: Statistics of FillP-Sheep

Start at: 2018-07-19 19:17:26
End at: 2018-07-19 19:17:56
Local clock offset: -0.065 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-07-19 23:09:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 1051.26 Mbit/s
95th percentile per-packet one-way delay: 246.139 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 569.39 Mbit/s
95th percentile per-packet one-way delay: 222.758 ms
Loss rate: 3.50%
-- Flow 2:
Average throughput: 509.55 Mbit/s
95th percentile per-packet one-way delay: 289.098 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 442.66 Mbit/s
95th percentile per-packet one-way delay: 186.146 ms
Loss rate: 3.11%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-19 19:44:19

End at: 2018-07-19 19:44:49

Local clock offset: -0.198 ms

Remote clock offset: 6.706 ms

Below is generated by plot.py at 2018-07-19 23:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 1026.61 Mbit/s

95th percentile per-packet one-way delay: 314.028 ms

Loss rate: 10.02%

-- Flow 1:

Average throughput: 595.81 Mbit/s

95th percentile per-packet one-way delay: 296.860 ms

Loss rate: 6.16%

-- Flow 2:

Average throughput: 450.51 Mbit/s

95th percentile per-packet one-way delay: 327.603 ms

Loss rate: 18.24%

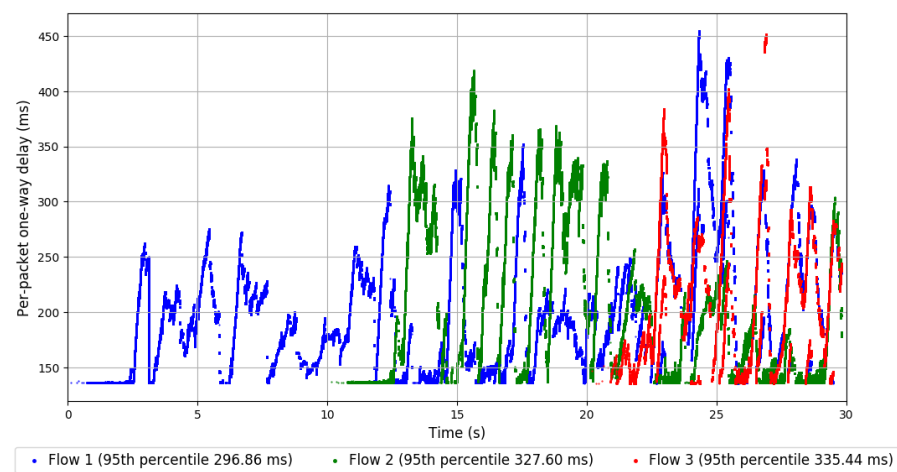
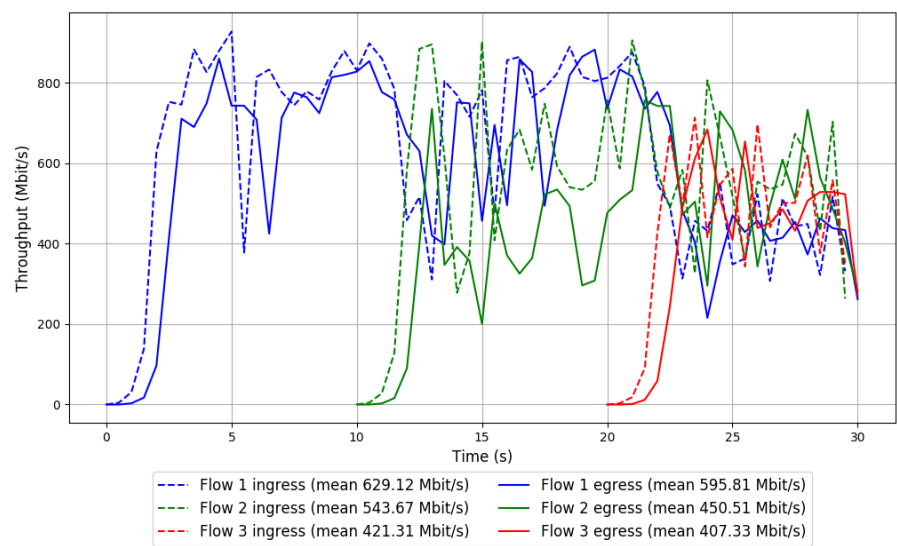
-- Flow 3:

Average throughput: 407.33 Mbit/s

95th percentile per-packet one-way delay: 335.435 ms

Loss rate: 6.09%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-19 20:11:34

End at: 2018-07-19 20:12:04

Local clock offset: -0.395 ms

Remote clock offset: 9.009 ms

Below is generated by plot.py at 2018-07-19 23:33:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 1066.98 Mbit/s

95th percentile per-packet one-way delay: 288.675 ms

Loss rate: 5.76%

-- Flow 1:

Average throughput: 562.25 Mbit/s

95th percentile per-packet one-way delay: 287.690 ms

Loss rate: 5.84%

-- Flow 2:

Average throughput: 555.98 Mbit/s

95th percentile per-packet one-way delay: 229.542 ms

Loss rate: 5.13%

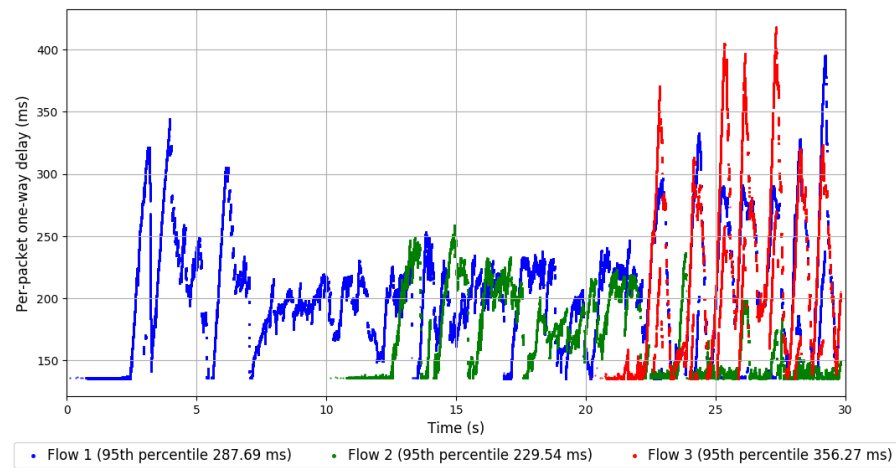
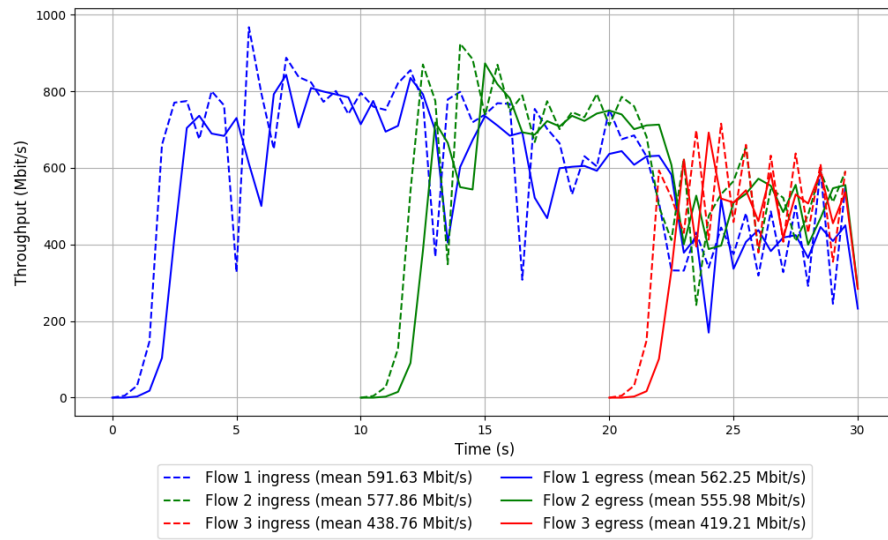
-- Flow 3:

Average throughput: 419.21 Mbit/s

95th percentile per-packet one-way delay: 356.270 ms

Loss rate: 7.12%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-19 20:38:50

End at: 2018-07-19 20:39:20

Local clock offset: -0.161 ms

Remote clock offset: 8.449 ms

Below is generated by plot.py at 2018-07-19 23:33:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 716.19 Mbit/s

95th percentile per-packet one-way delay: 348.127 ms

Loss rate: 9.53%

-- Flow 1:

Average throughput: 166.82 Mbit/s

95th percentile per-packet one-way delay: 403.647 ms

Loss rate: 18.16%

-- Flow 2:

Average throughput: 584.25 Mbit/s

95th percentile per-packet one-way delay: 226.521 ms

Loss rate: 6.18%

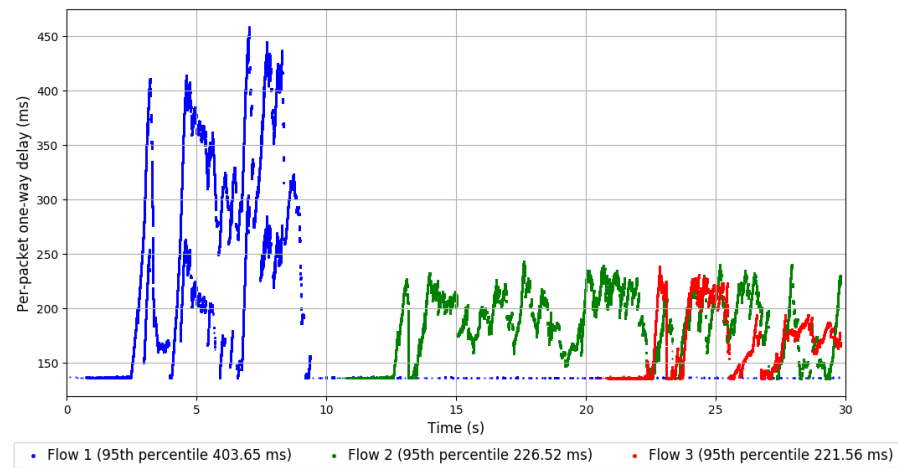
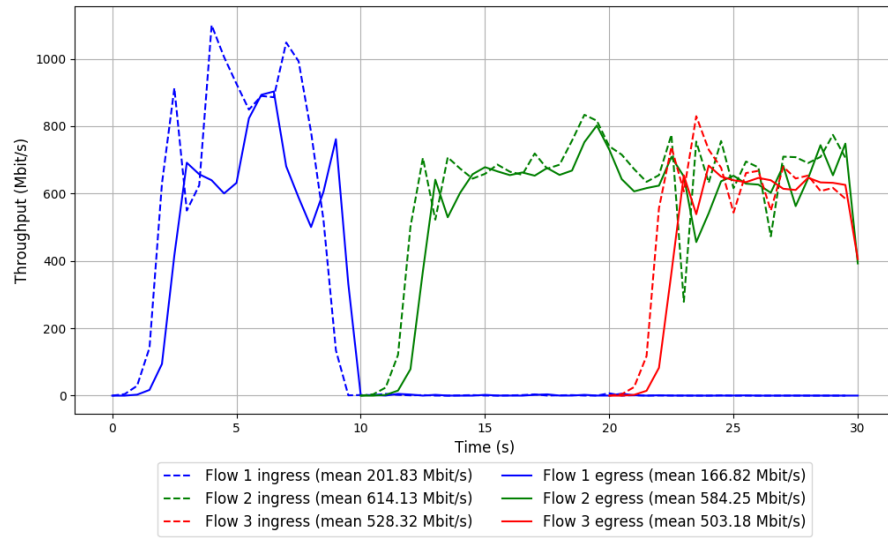
-- Flow 3:

Average throughput: 503.18 Mbit/s

95th percentile per-packet one-way delay: 221.556 ms

Loss rate: 7.39%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-19 21:05:35

End at: 2018-07-19 21:06:05

Local clock offset: -0.052 ms

Remote clock offset: 3.387 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 1100.65 Mbit/s

95th percentile per-packet one-way delay: 245.364 ms

Loss rate: 6.16%

-- Flow 1:

Average throughput: 615.21 Mbit/s

95th percentile per-packet one-way delay: 231.916 ms

Loss rate: 6.45%

-- Flow 2:

Average throughput: 493.69 Mbit/s

95th percentile per-packet one-way delay: 275.769 ms

Loss rate: 6.79%

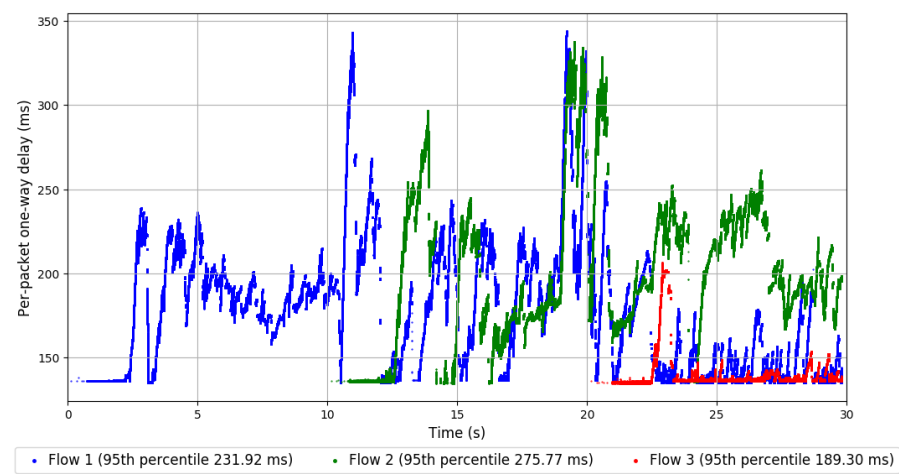
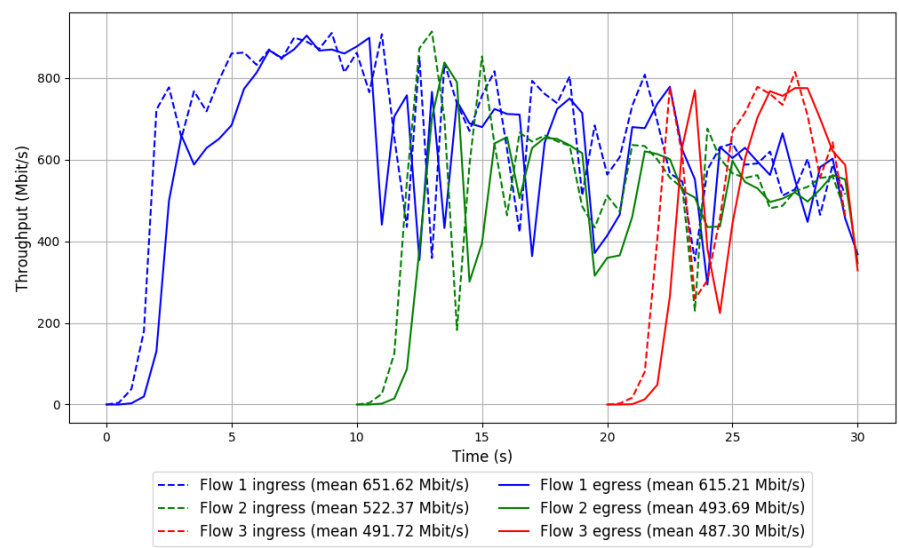
-- Flow 3:

Average throughput: 487.30 Mbit/s

95th percentile per-packet one-way delay: 189.298 ms

Loss rate: 3.63%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-19 21:32:26

End at: 2018-07-19 21:32:56

Local clock offset: 0.111 ms

Remote clock offset: 0.602 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 1075.11 Mbit/s

95th percentile per-packet one-way delay: 238.689 ms

Loss rate: 6.88%

-- Flow 1:

Average throughput: 627.83 Mbit/s

95th percentile per-packet one-way delay: 227.107 ms

Loss rate: 6.36%

-- Flow 2:

Average throughput: 428.86 Mbit/s

95th percentile per-packet one-way delay: 265.394 ms

Loss rate: 9.25%

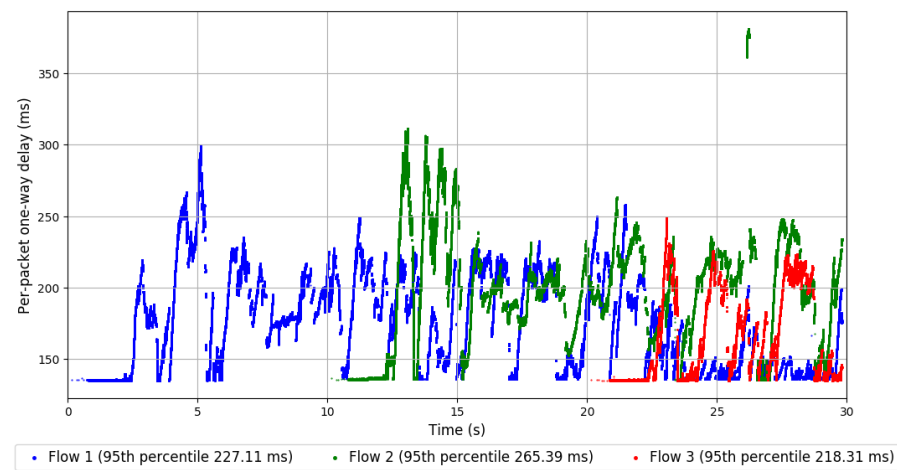
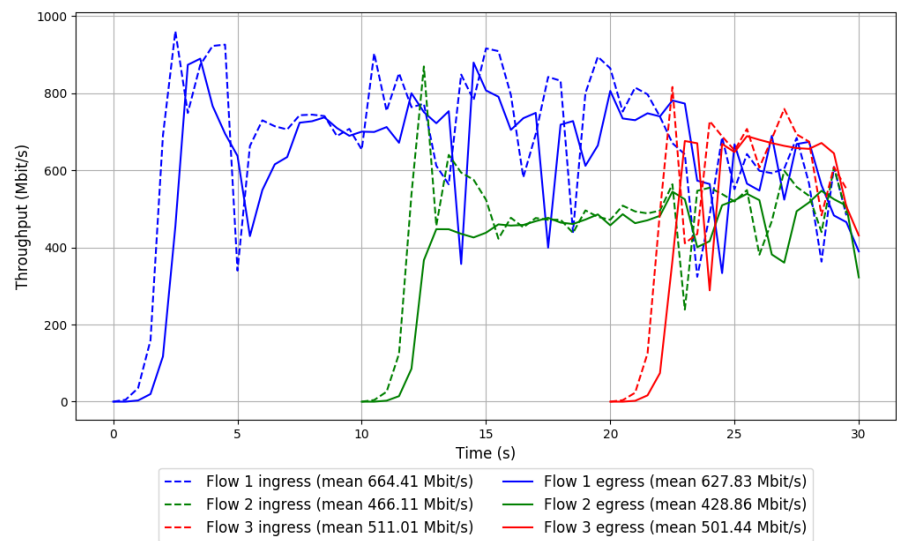
-- Flow 3:

Average throughput: 501.44 Mbit/s

95th percentile per-packet one-way delay: 218.308 ms

Loss rate: 4.58%

Run 10: Report of FillP-Sheep — Data Link

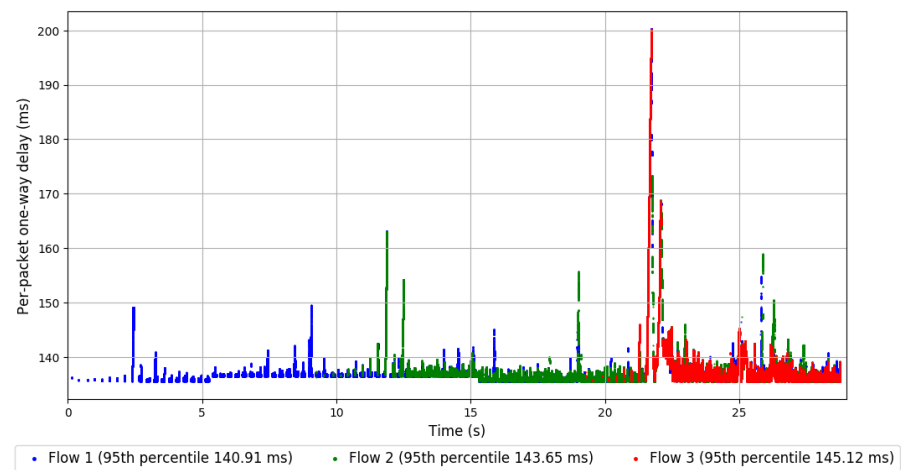
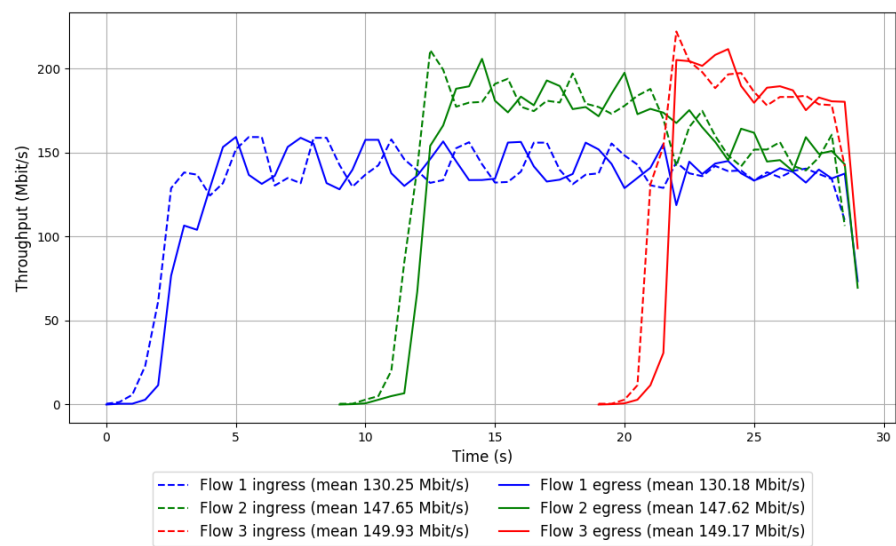


Run 1: Statistics of Indigo

Start at: 2018-07-19 17:35:01
End at: 2018-07-19 17:35:31
Local clock offset: 0.026 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 280.09 Mbit/s
95th percentile per-packet one-way delay: 142.723 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 130.18 Mbit/s
95th percentile per-packet one-way delay: 140.909 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 147.62 Mbit/s
95th percentile per-packet one-way delay: 143.650 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 149.17 Mbit/s
95th percentile per-packet one-way delay: 145.122 ms
Loss rate: 3.31%

Run 1: Report of Indigo — Data Link

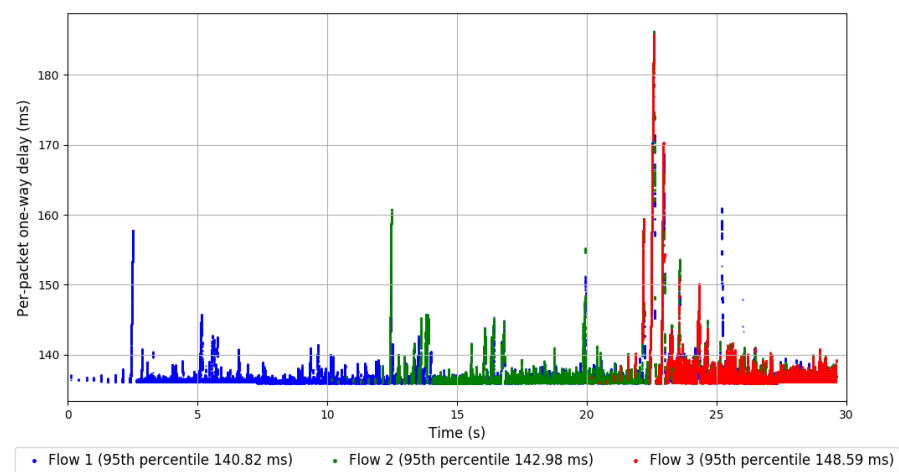
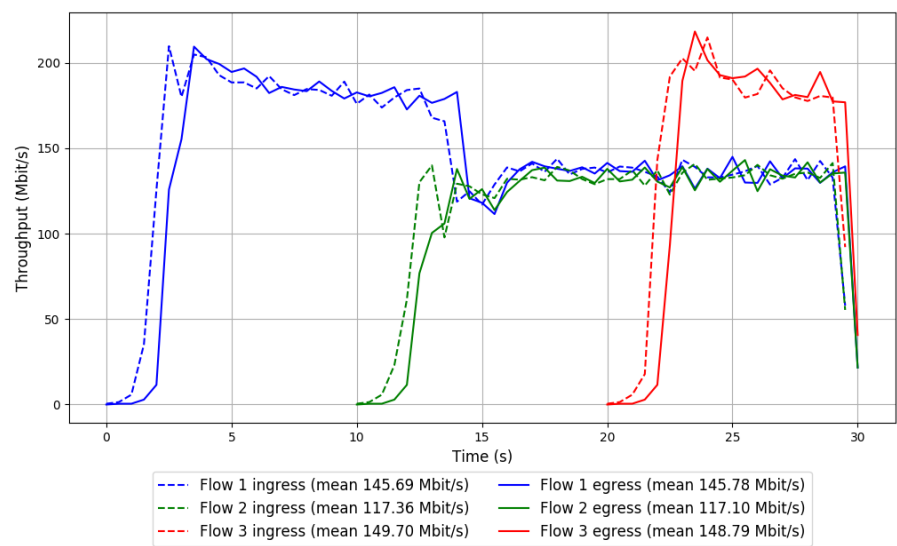


Run 2: Statistics of Indigo

Start at: 2018-07-19 18:01:50
End at: 2018-07-19 18:02:20
Local clock offset: -0.037 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 270.73 Mbit/s
95th percentile per-packet one-way delay: 142.330 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 145.78 Mbit/s
95th percentile per-packet one-way delay: 140.818 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 117.10 Mbit/s
95th percentile per-packet one-way delay: 142.976 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 148.79 Mbit/s
95th percentile per-packet one-way delay: 148.590 ms
Loss rate: 3.40%

Run 2: Report of Indigo — Data Link

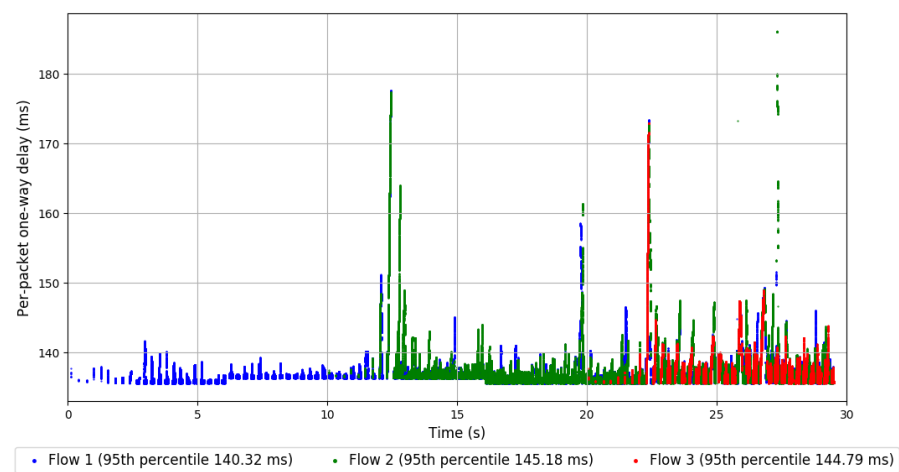
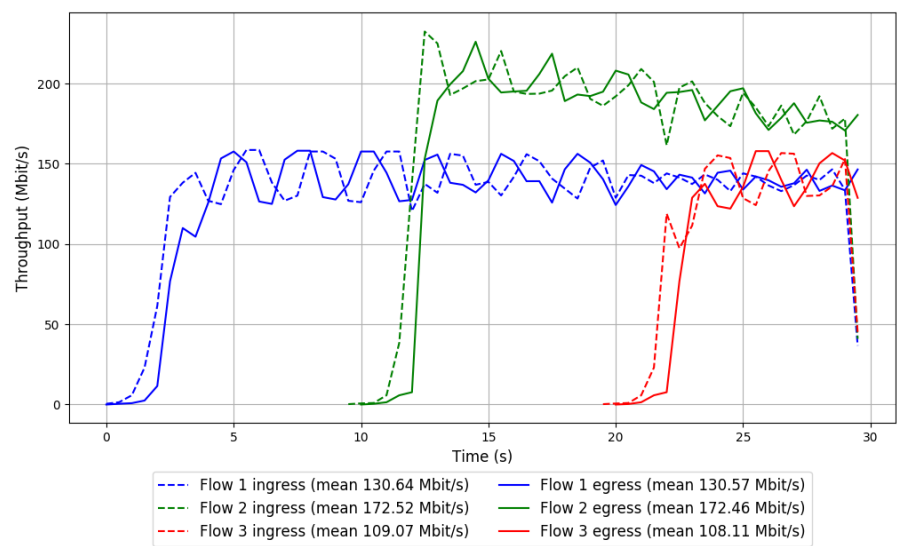


Run 3: Statistics of Indigo

Start at: 2018-07-19 18:29:01
End at: 2018-07-19 18:29:31
Local clock offset: -0.003 ms
Remote clock offset: -0.456 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 279.41 Mbit/s
95th percentile per-packet one-way delay: 142.993 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 130.57 Mbit/s
95th percentile per-packet one-way delay: 140.325 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 172.46 Mbit/s
95th percentile per-packet one-way delay: 145.178 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 108.11 Mbit/s
95th percentile per-packet one-way delay: 144.792 ms
Loss rate: 3.67%

Run 3: Report of Indigo — Data Link

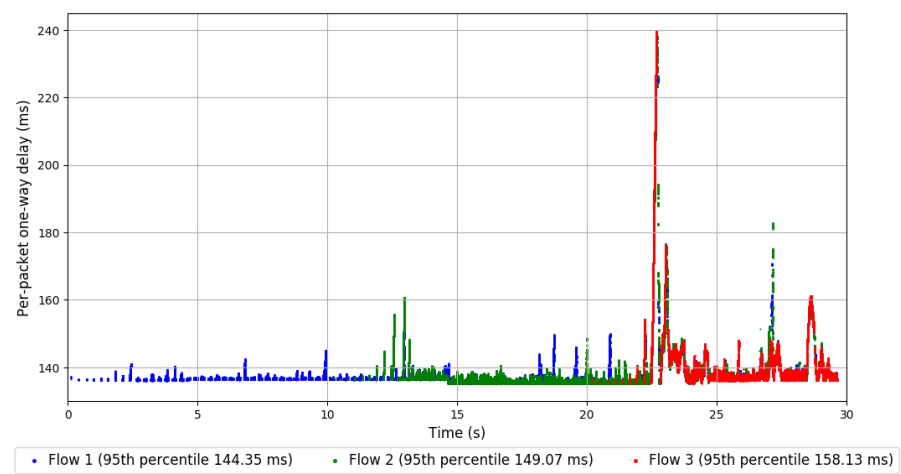
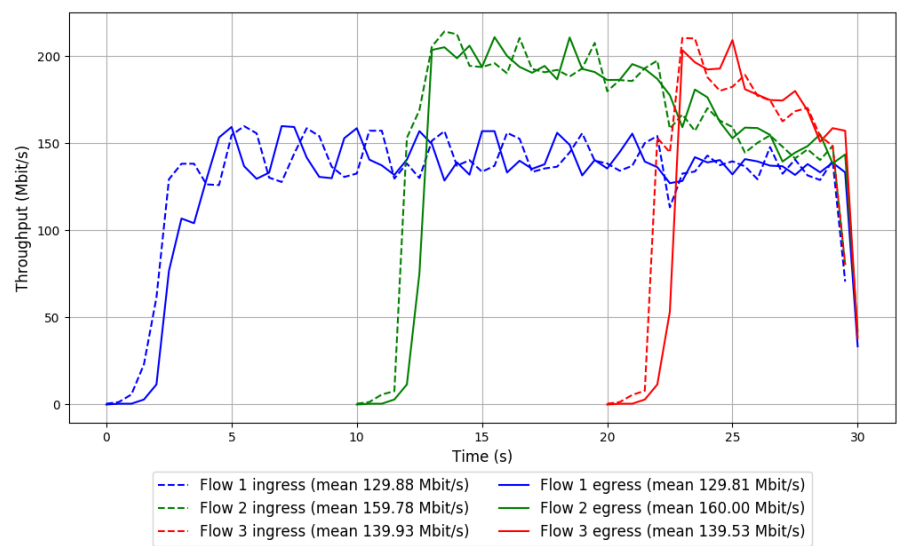


Run 4: Statistics of Indigo

Start at: 2018-07-19 18:55:53
End at: 2018-07-19 18:56:23
Local clock offset: 0.109 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 279.62 Mbit/s
95th percentile per-packet one-way delay: 148.179 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 129.81 Mbit/s
95th percentile per-packet one-way delay: 144.349 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 160.00 Mbit/s
95th percentile per-packet one-way delay: 149.066 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 139.53 Mbit/s
95th percentile per-packet one-way delay: 158.127 ms
Loss rate: 3.12%

Run 4: Report of Indigo — Data Link

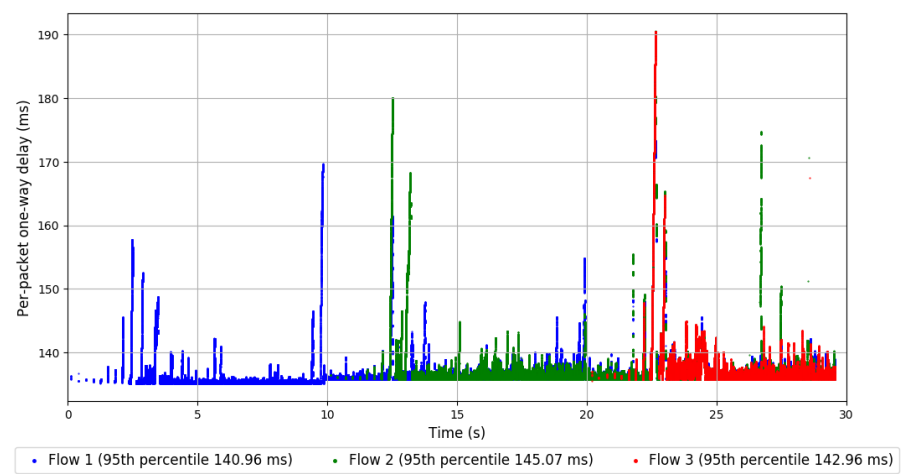
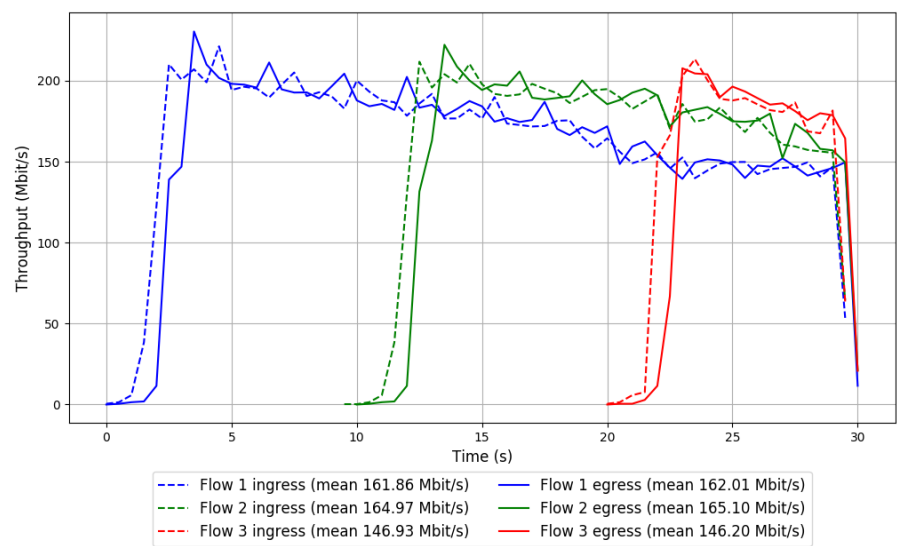


Run 5: Statistics of Indigo

Start at: 2018-07-19 19:22:58
End at: 2018-07-19 19:23:28
Local clock offset: -0.088 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 317.67 Mbit/s
95th percentile per-packet one-way delay: 142.189 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 162.01 Mbit/s
95th percentile per-packet one-way delay: 140.957 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 165.10 Mbit/s
95th percentile per-packet one-way delay: 145.073 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 146.20 Mbit/s
95th percentile per-packet one-way delay: 142.957 ms
Loss rate: 3.31%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-19 19:49:57

End at: 2018-07-19 19:50:27

Local clock offset: -0.205 ms

Remote clock offset: 9.275 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.65 Mbit/s

95th percentile per-packet one-way delay: 142.740 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 169.31 Mbit/s

95th percentile per-packet one-way delay: 140.562 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 165.37 Mbit/s

95th percentile per-packet one-way delay: 143.424 ms

Loss rate: 1.26%

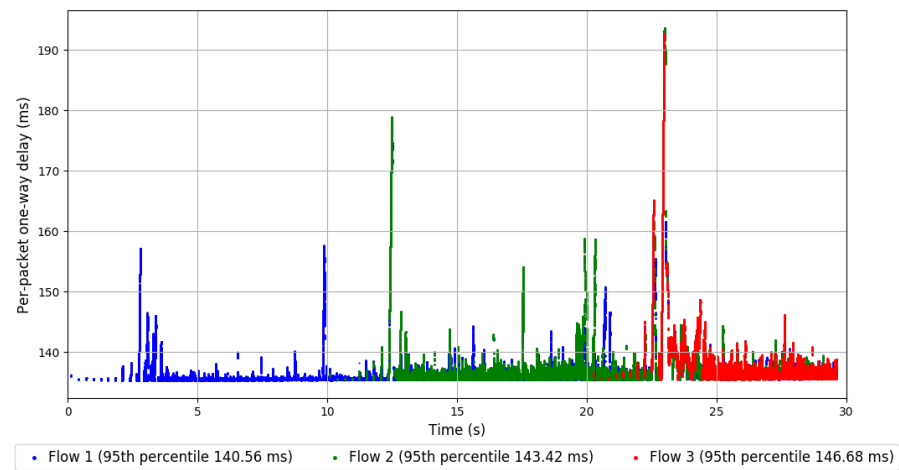
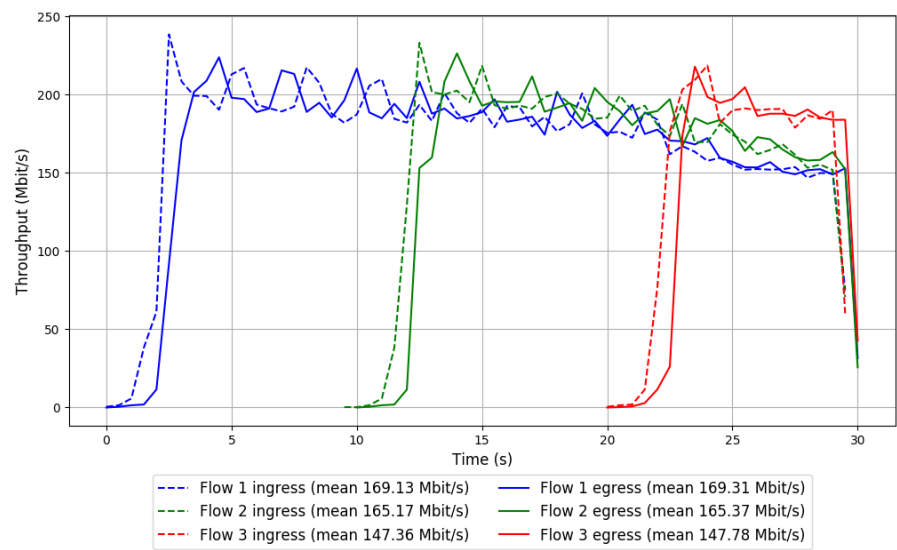
-- Flow 3:

Average throughput: 147.78 Mbit/s

95th percentile per-packet one-way delay: 146.680 ms

Loss rate: 2.54%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-19 20:17:19

End at: 2018-07-19 20:17:49

Local clock offset: 0.061 ms

Remote clock offset: 7.053 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.70 Mbit/s

95th percentile per-packet one-way delay: 142.387 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 164.43 Mbit/s

95th percentile per-packet one-way delay: 139.604 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 127.60 Mbit/s

95th percentile per-packet one-way delay: 146.011 ms

Loss rate: 1.52%

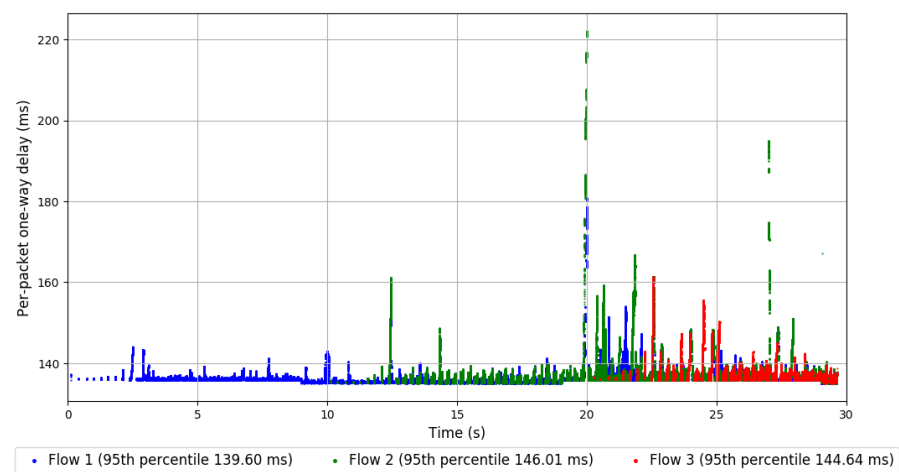
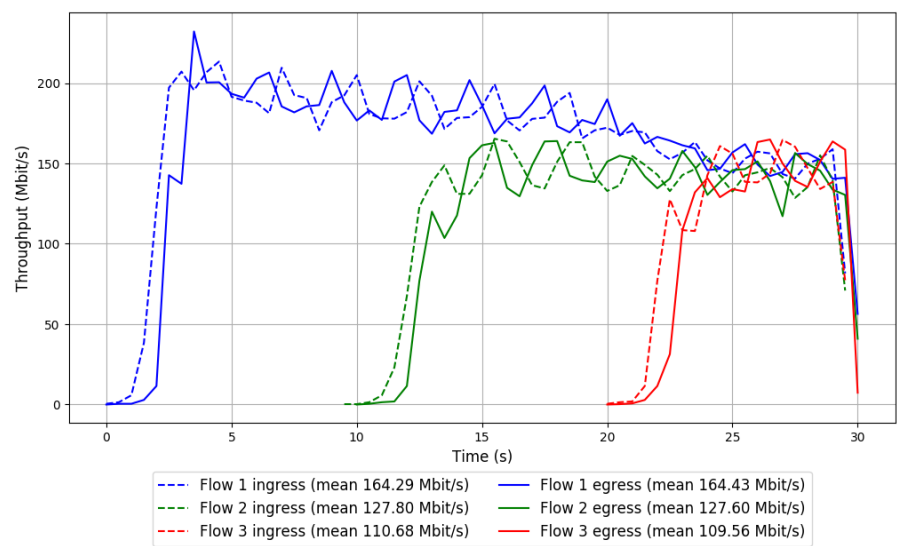
-- Flow 3:

Average throughput: 109.56 Mbit/s

95th percentile per-packet one-way delay: 144.640 ms

Loss rate: 3.81%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-19 20:44:15

End at: 2018-07-19 20:44:45

Local clock offset: -0.149 ms

Remote clock offset: 5.442 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.00 Mbit/s

95th percentile per-packet one-way delay: 141.475 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 167.10 Mbit/s

95th percentile per-packet one-way delay: 139.410 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 158.99 Mbit/s

95th percentile per-packet one-way delay: 149.428 ms

Loss rate: 1.28%

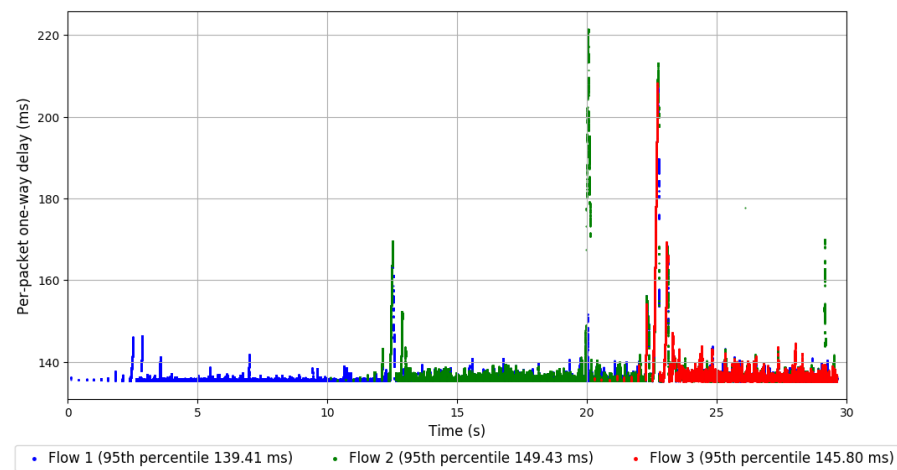
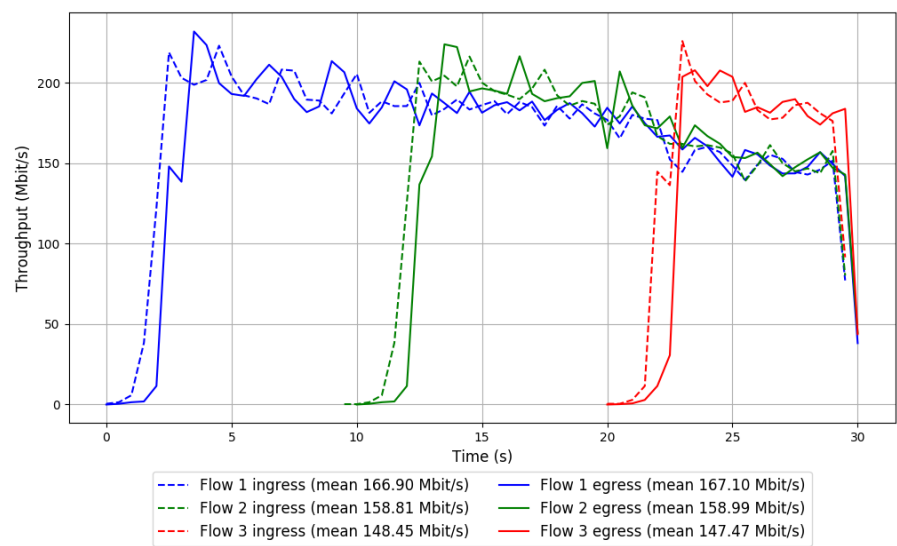
-- Flow 3:

Average throughput: 147.47 Mbit/s

95th percentile per-packet one-way delay: 145.801 ms

Loss rate: 3.47%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-19 21:11:06

End at: 2018-07-19 21:11:36

Local clock offset: -0.097 ms

Remote clock offset: 3.5 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.87 Mbit/s

95th percentile per-packet one-way delay: 143.059 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 168.49 Mbit/s

95th percentile per-packet one-way delay: 140.579 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 123.83 Mbit/s

95th percentile per-packet one-way delay: 145.292 ms

Loss rate: 1.56%

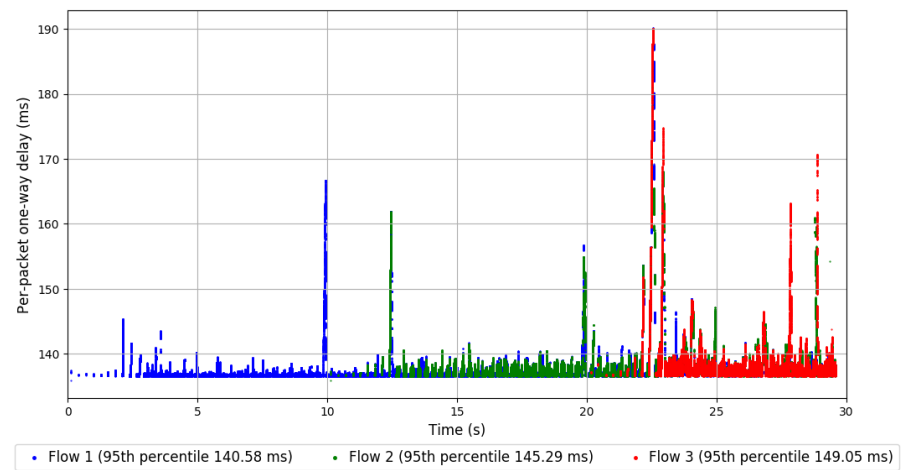
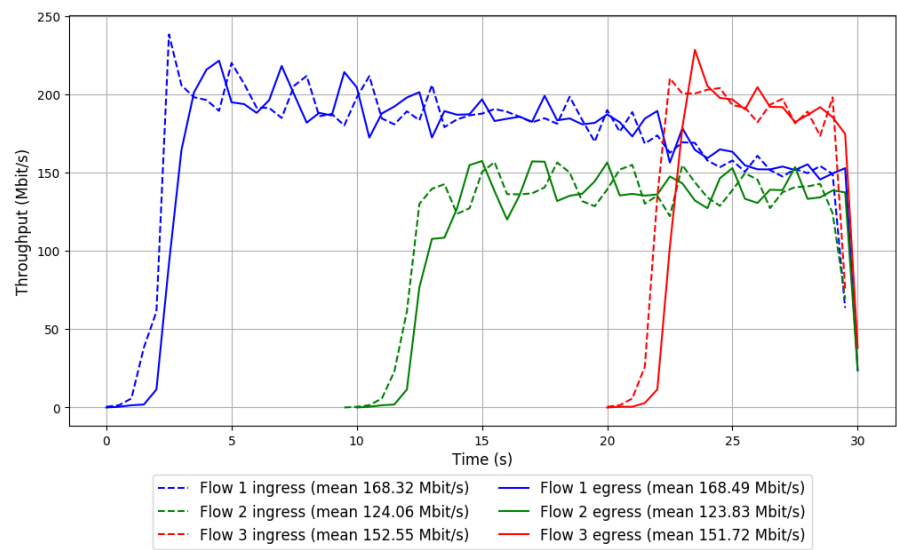
-- Flow 3:

Average throughput: 151.72 Mbit/s

95th percentile per-packet one-way delay: 149.048 ms

Loss rate: 3.35%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-19 21:38:07

End at: 2018-07-19 21:38:37

Local clock offset: 0.036 ms

Remote clock offset: 0.822 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.86 Mbit/s

95th percentile per-packet one-way delay: 140.245 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 168.70 Mbit/s

95th percentile per-packet one-way delay: 139.315 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 127.92 Mbit/s

95th percentile per-packet one-way delay: 140.664 ms

Loss rate: 1.54%

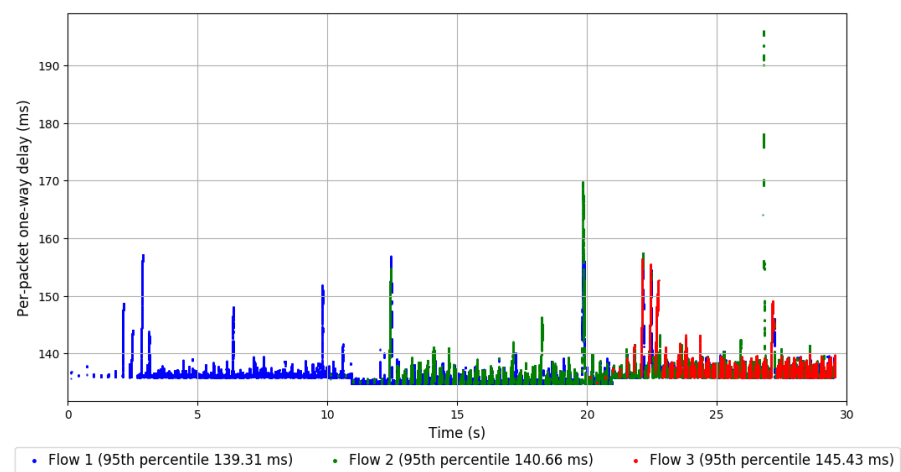
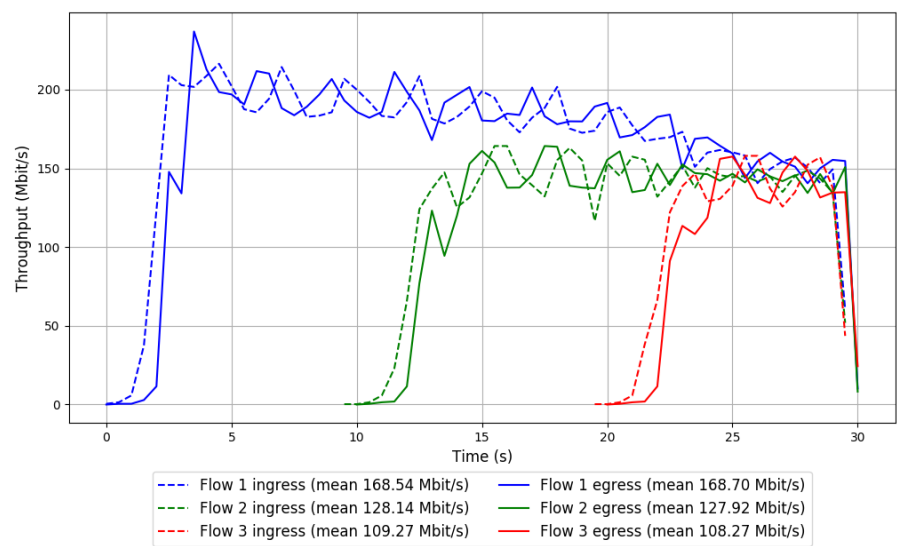
-- Flow 3:

Average throughput: 108.27 Mbit/s

95th percentile per-packet one-way delay: 145.427 ms

Loss rate: 3.70%

Run 10: Report of Indigo — Data Link

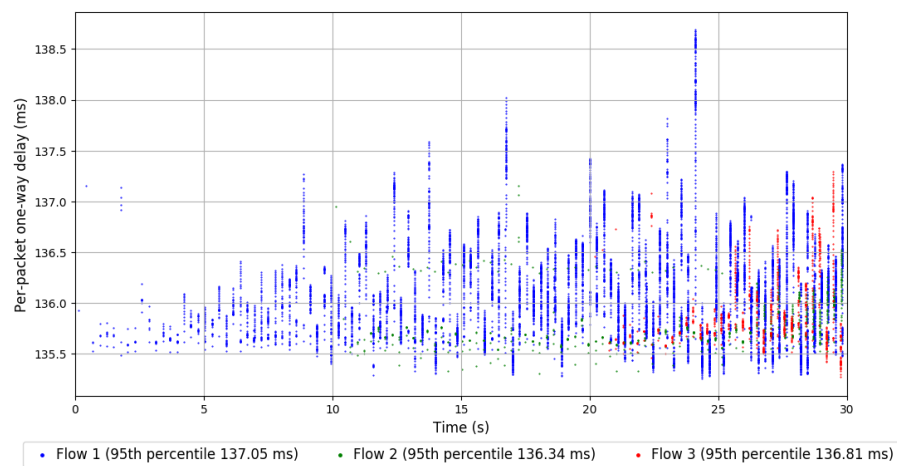
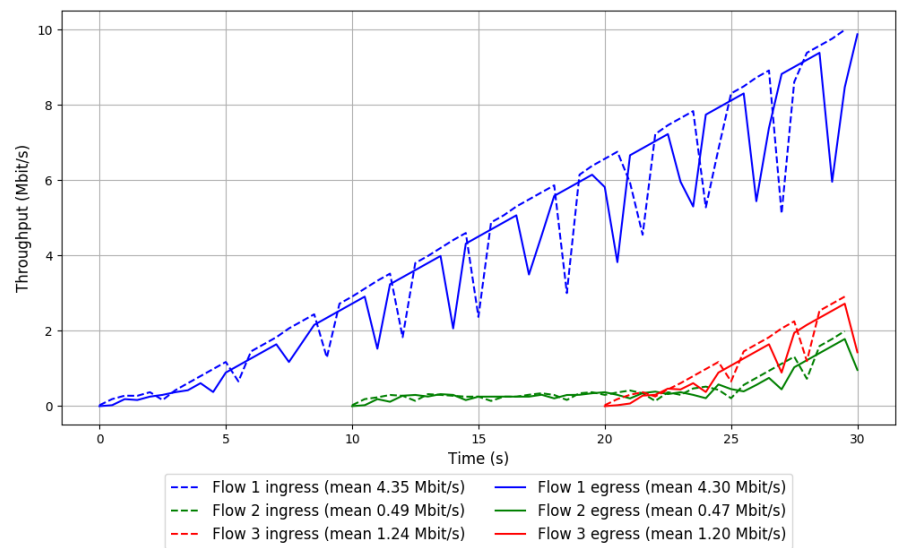


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-19 17:39:48
End at: 2018-07-19 17:40:18
Local clock offset: -0.222 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-07-19 23:35:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 137.010 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 137.050 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 136.338 ms
Loss rate: 5.25%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 136.812 ms
Loss rate: 6.05%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-19 18:06:42

End at: 2018-07-19 18:07:12

Local clock offset: 0.111 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 137.303 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 137.350 ms

Loss rate: 1.92%

-- Flow 2:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 137.241 ms

Loss rate: 2.88%

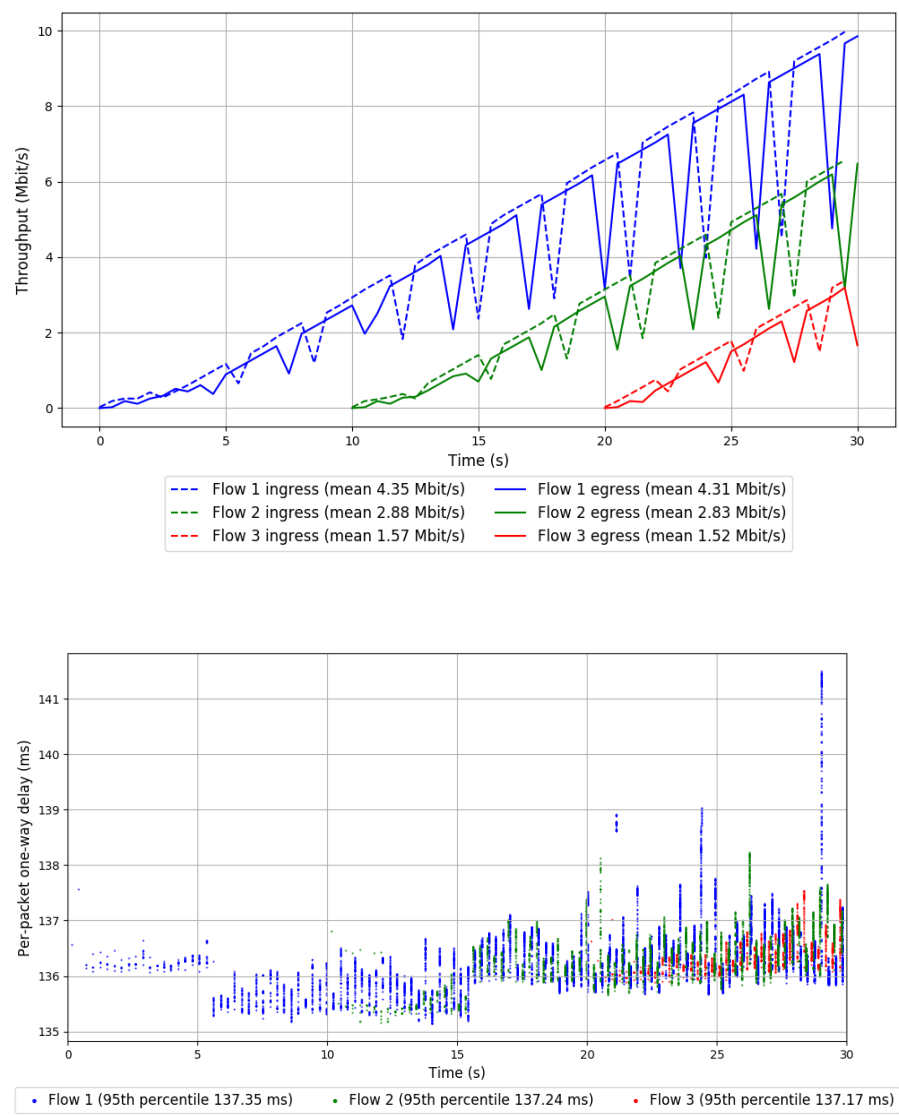
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 137.174 ms

Loss rate: 5.55%

Run 2: Report of LEDBAT — Data Link

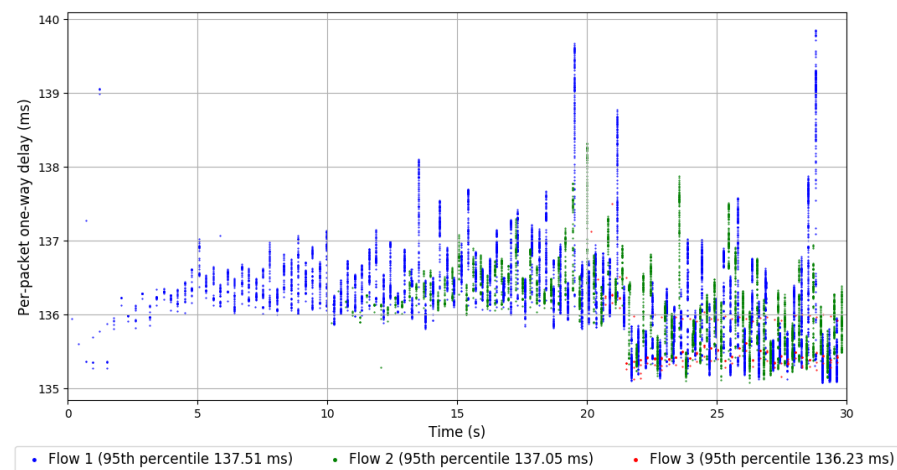
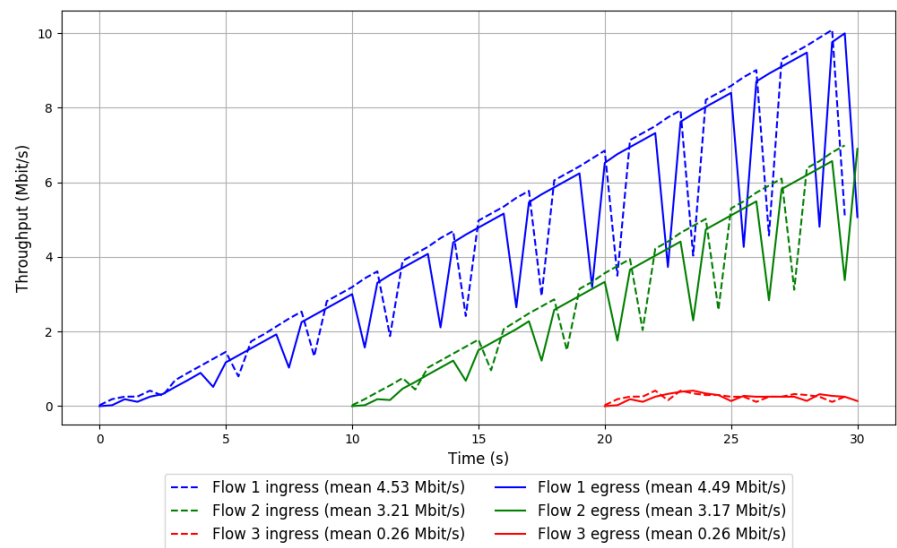


Run 3: Statistics of LEDBAT

Start at: 2018-07-19 18:33:56
End at: 2018-07-19 18:34:26
Local clock offset: -0.086 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 137.344 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 137.508 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 137.050 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 136.227 ms
Loss rate: 2.29%

Run 3: Report of LEDBAT — Data Link

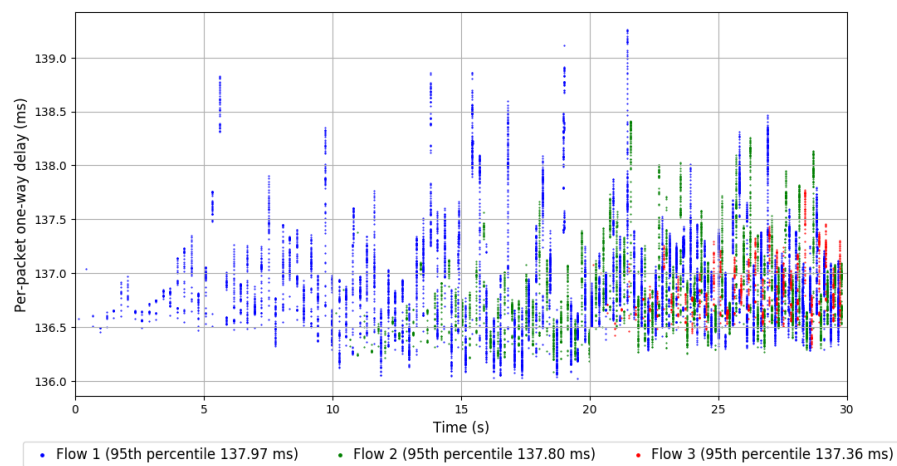
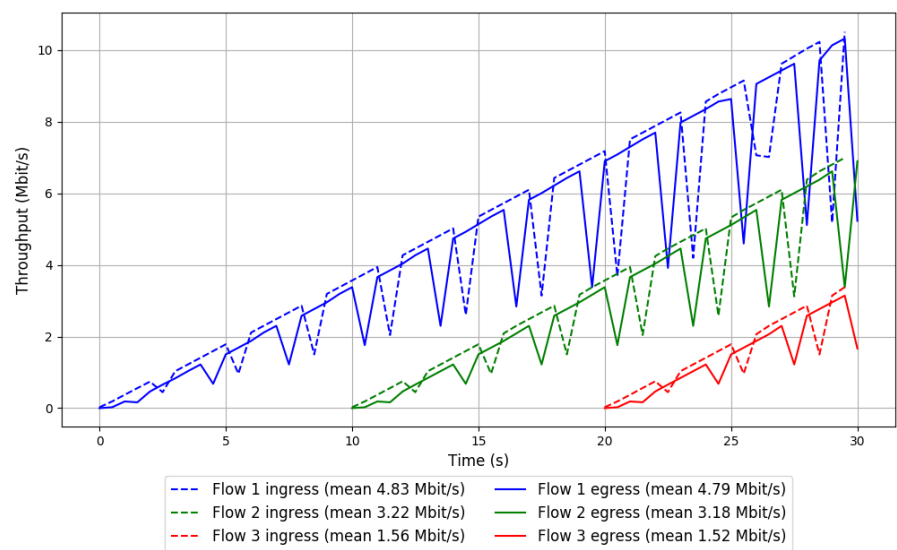


Run 4: Statistics of LEDBAT

Start at: 2018-07-19 19:00:48
End at: 2018-07-19 19:01:18
Local clock offset: 0.009 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 137.885 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 137.968 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 137.800 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 137.360 ms
Loss rate: 5.57%

Run 4: Report of LEDBAT — Data Link

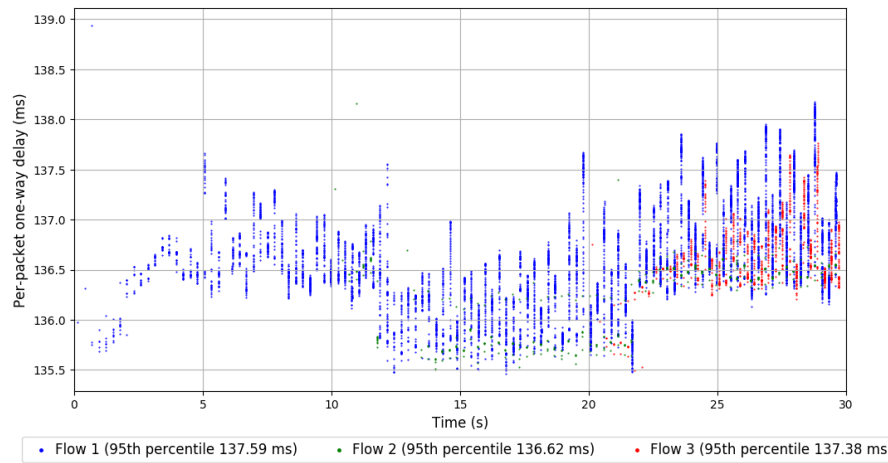
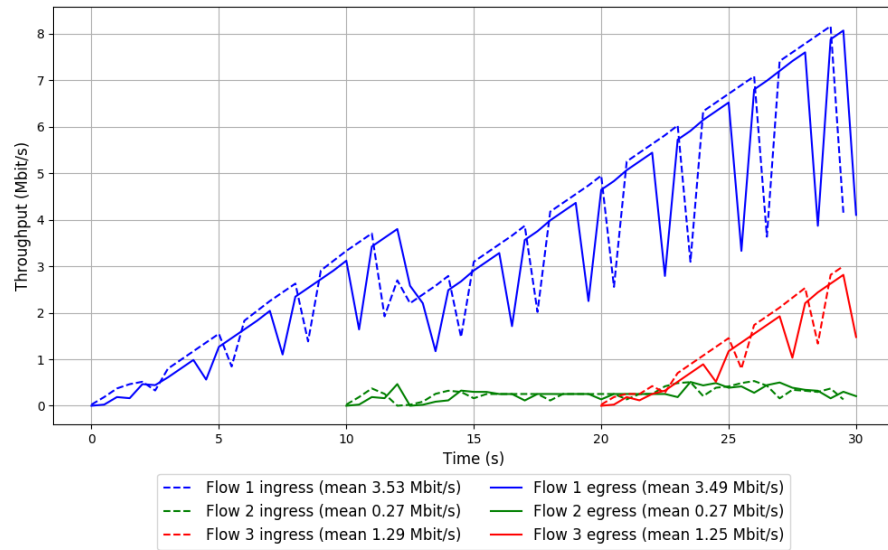


Run 5: Statistics of LEDBAT

Start at: 2018-07-19 19:27:56
End at: 2018-07-19 19:28:26
Local clock offset: 0.207 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 137.568 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 137.591 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 136.621 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 137.384 ms
Loss rate: 6.00%

Run 5: Report of LEDBAT — Data Link

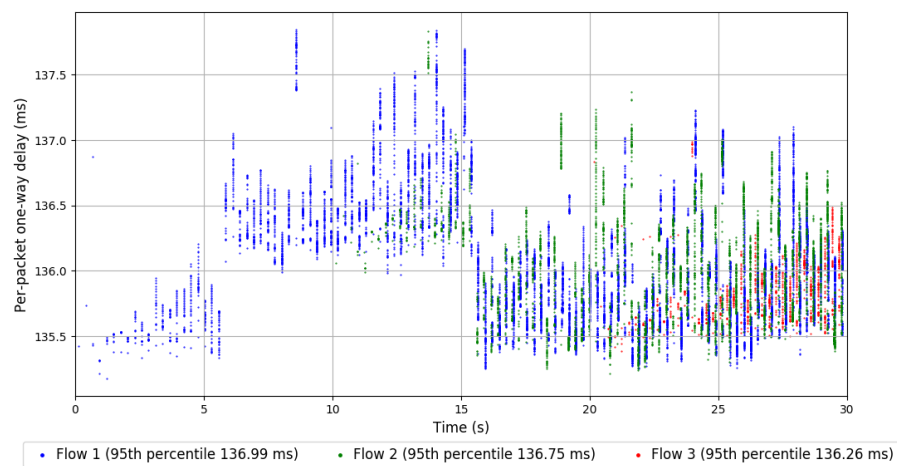
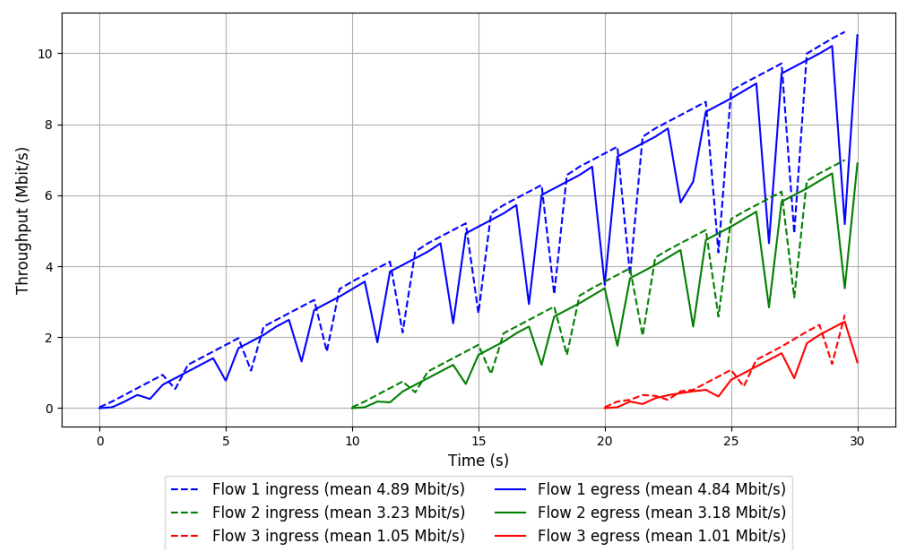


Run 6: Statistics of LEDBAT

Start at: 2018-07-19 19:54:52
End at: 2018-07-19 19:55:22
Local clock offset: -0.131 ms
Remote clock offset: 11.918 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 136.915 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 136.987 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 136.747 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 136.261 ms
Loss rate: 6.48%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-19 20:22:15

End at: 2018-07-19 20:22:45

Local clock offset: -0.364 ms

Remote clock offset: 6.21 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 137.219 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 137.422 ms

Loss rate: 3.37%

-- Flow 2:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 3.32%

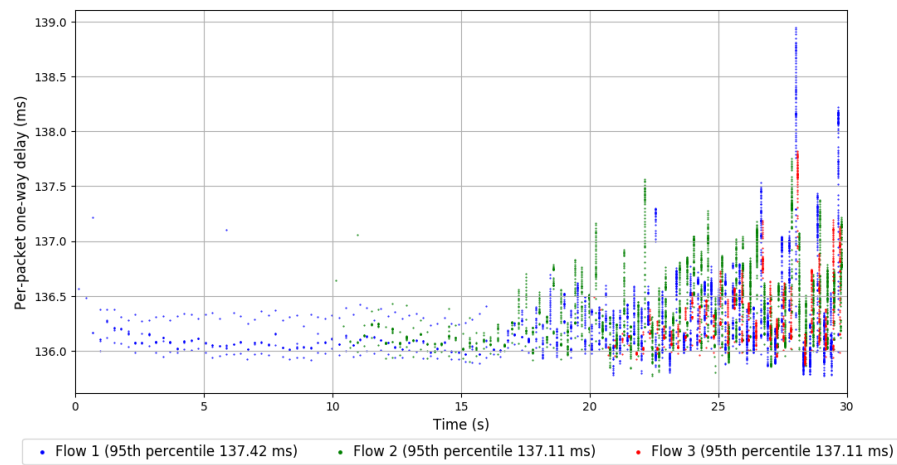
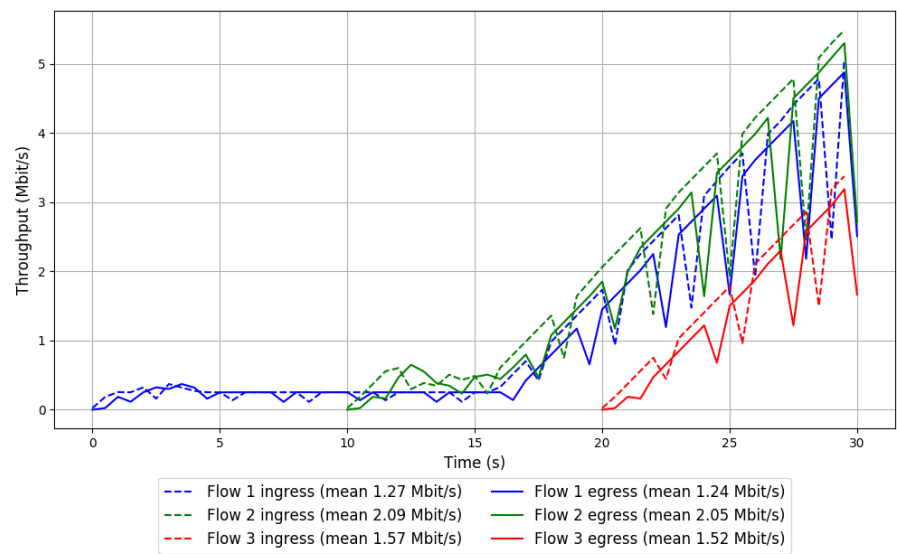
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 5.55%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-19 20:49:12

End at: 2018-07-19 20:49:42

Local clock offset: -0.171 ms

Remote clock offset: 3.278 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 137.834 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.837 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 137.904 ms

Loss rate: 2.74%

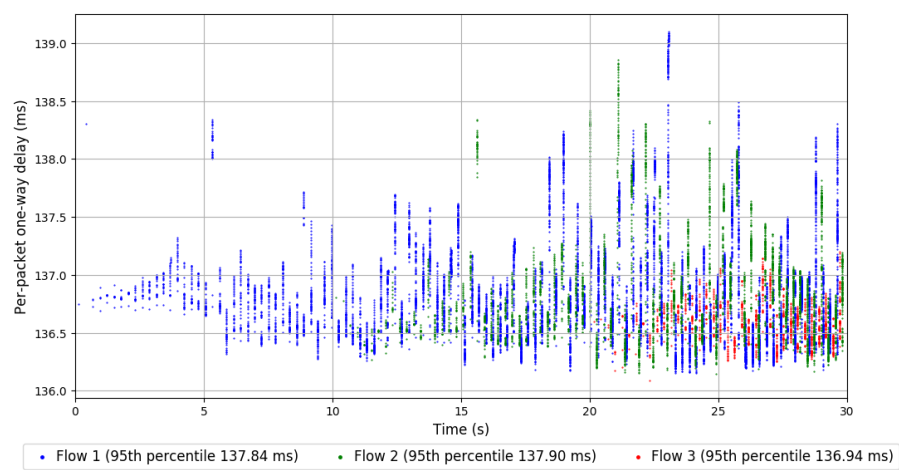
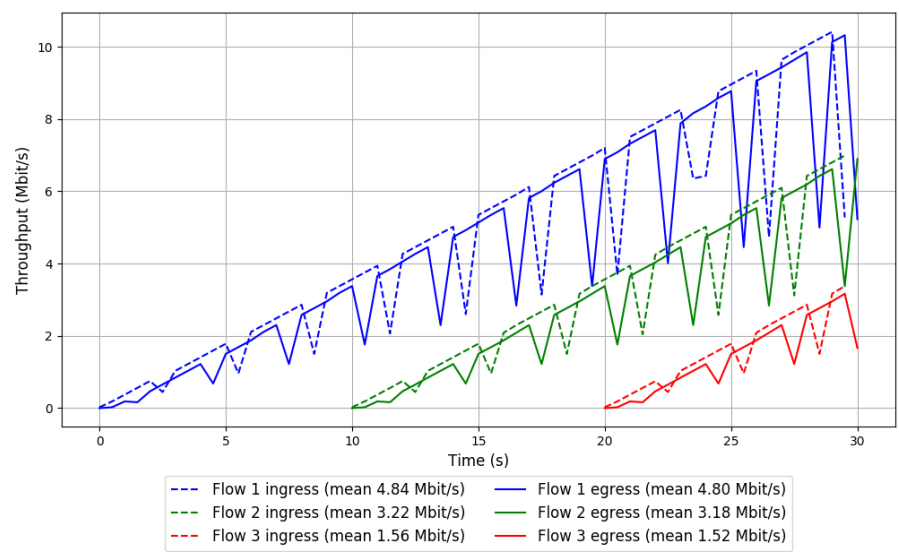
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 136.938 ms

Loss rate: 5.56%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-19 21:15:59

End at: 2018-07-19 21:16:29

Local clock offset: -0.09 ms

Remote clock offset: 2.883 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 137.460 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.521 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 136.482 ms

Loss rate: 1.66%

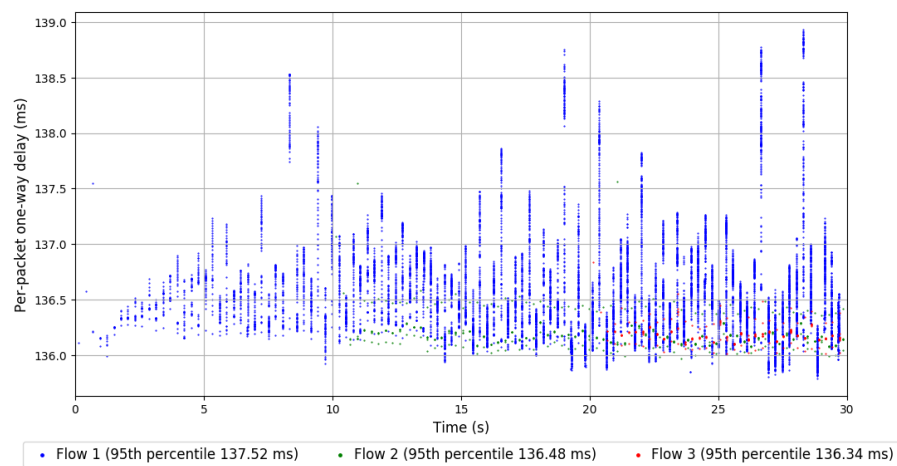
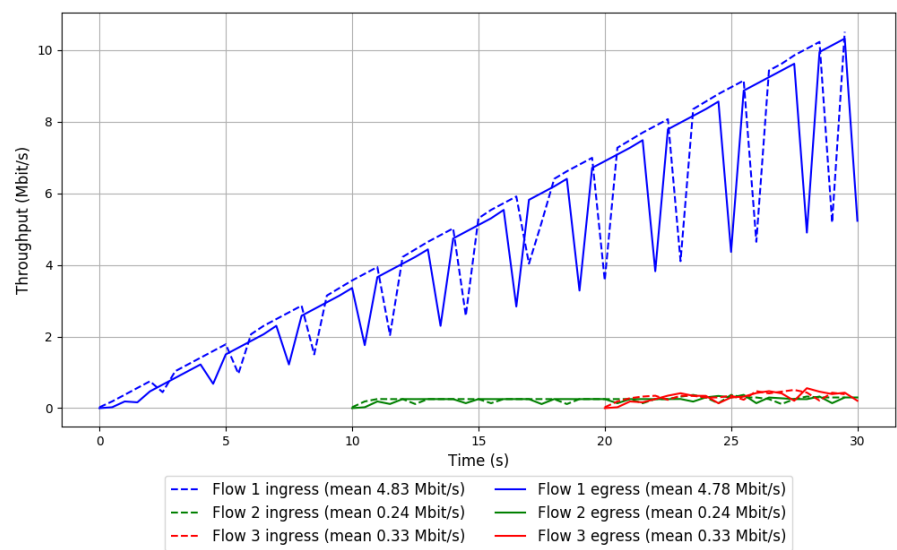
-- Flow 3:

Average throughput: 0.33 Mbit/s

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

Loss rate: 2.78%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-19 21:43:04

End at: 2018-07-19 21:43:34

Local clock offset: 0.309 ms

Remote clock offset: 0.477 ms

Below is generated by plot.py at 2018-07-19 23:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 137.032 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.068 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 136.958 ms

Loss rate: 2.99%

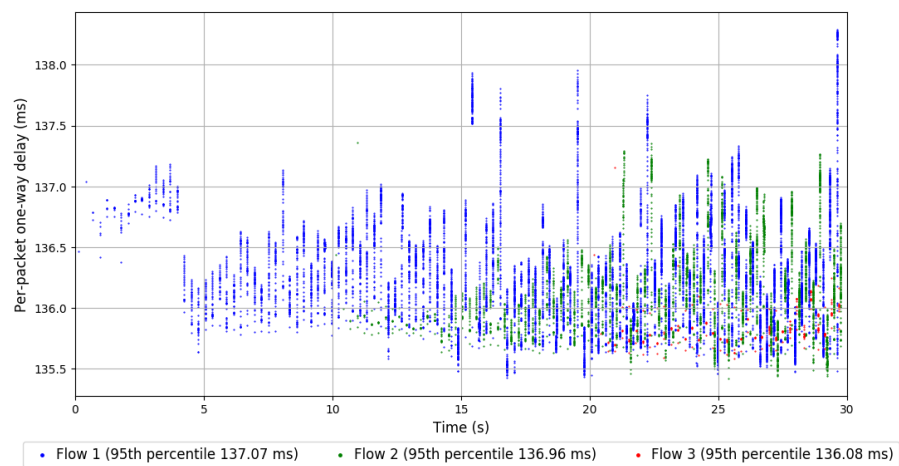
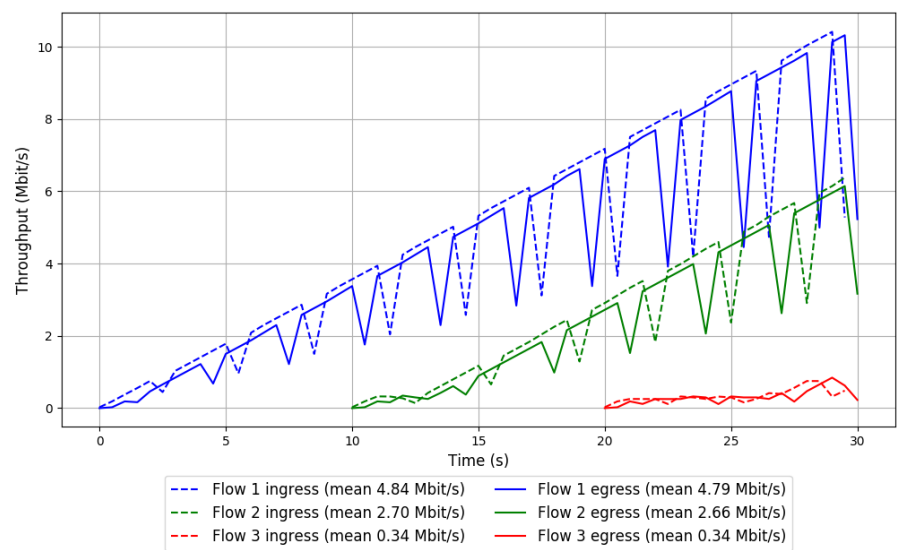
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.077 ms

Loss rate: 3.87%

Run 10: Report of LEDBAT — Data Link

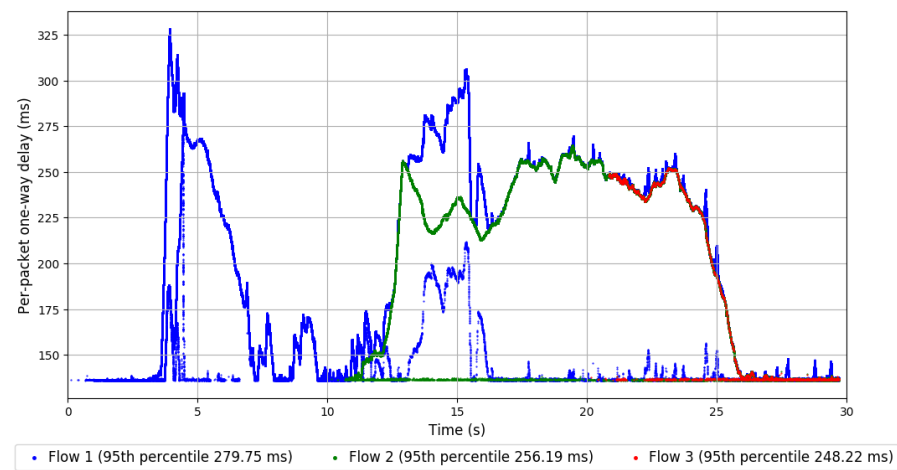
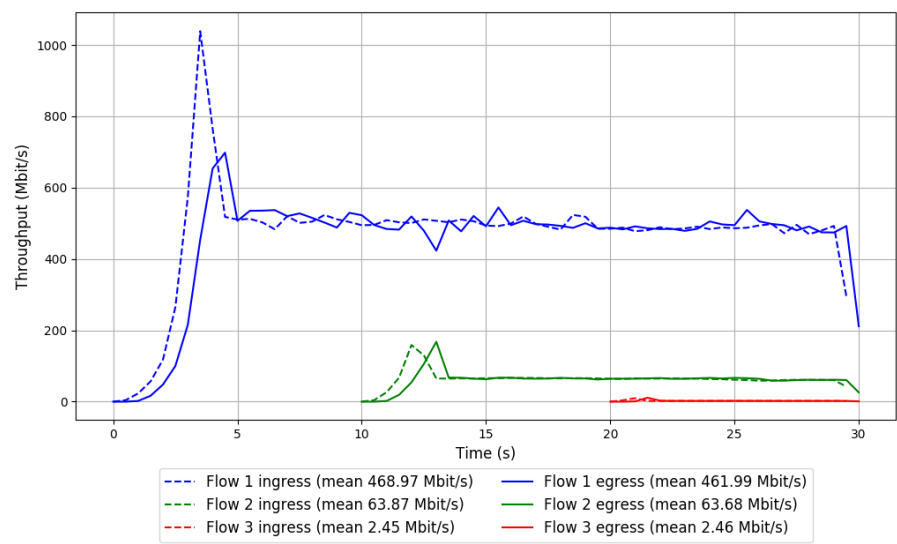


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-19 17:18:57
End at: 2018-07-19 17:19:27
Local clock offset: -0.123 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-07-19 23:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 504.91 Mbit/s
95th percentile per-packet one-way delay: 278.435 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 461.99 Mbit/s
95th percentile per-packet one-way delay: 279.753 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 256.190 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 248.217 ms
Loss rate: 2.33%

Run 1: Report of PCC-Allegro — Data Link

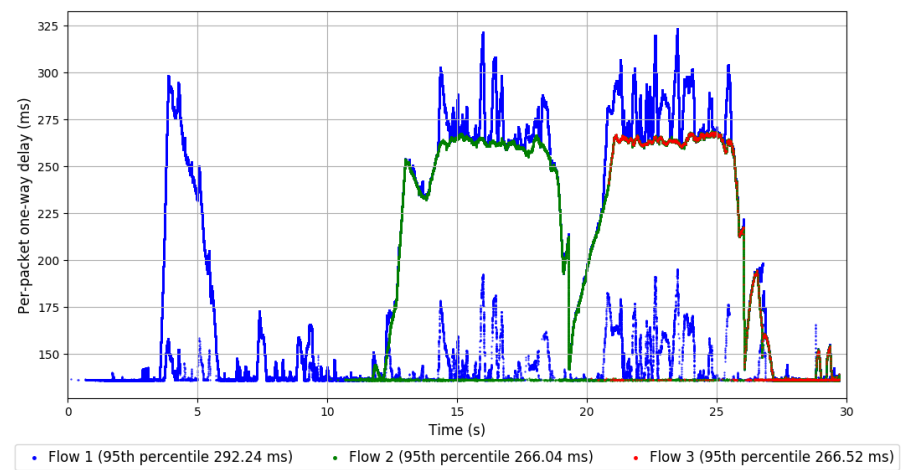
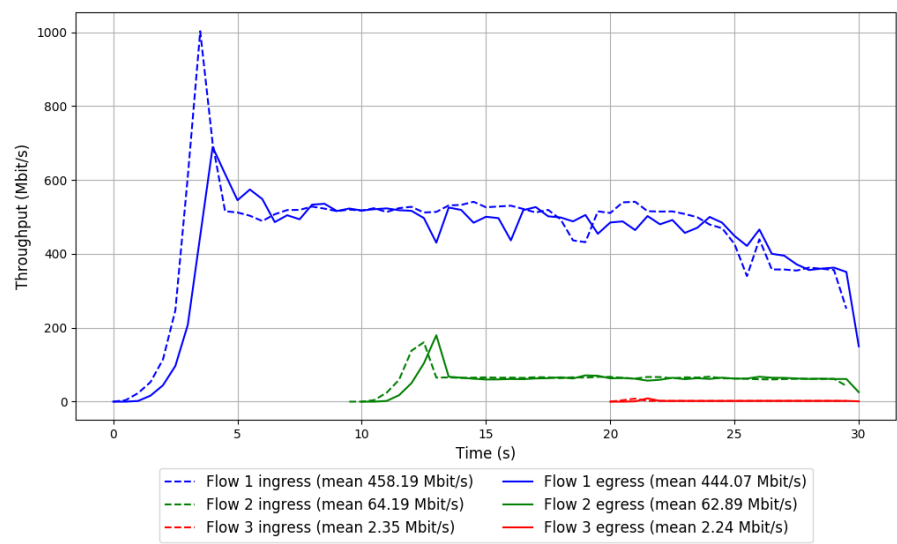


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-19 17:45:38
End at: 2018-07-19 17:46:09
Local clock offset: -0.339 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-07-19 23:36:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 486.42 Mbit/s
95th percentile per-packet one-way delay: 291.243 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 444.07 Mbit/s
95th percentile per-packet one-way delay: 292.235 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 266.035 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 266.517 ms
Loss rate: 7.41%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-19 18:12:29

End at: 2018-07-19 18:12:59

Local clock offset: -0.063 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2018-07-19 23:36:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.10 Mbit/s

95th percentile per-packet one-way delay: 280.276 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 452.87 Mbit/s

95th percentile per-packet one-way delay: 280.919 ms

Loss rate: 3.60%

-- Flow 2:

Average throughput: 62.68 Mbit/s

95th percentile per-packet one-way delay: 267.272 ms

Loss rate: 3.21%

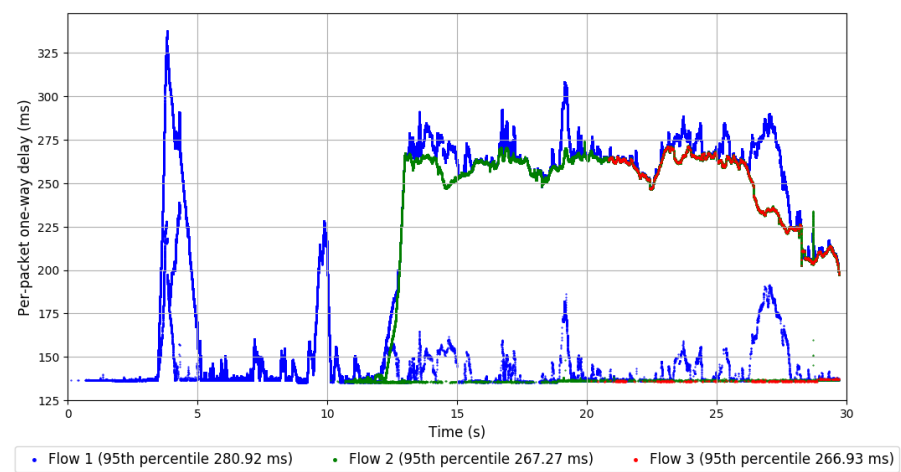
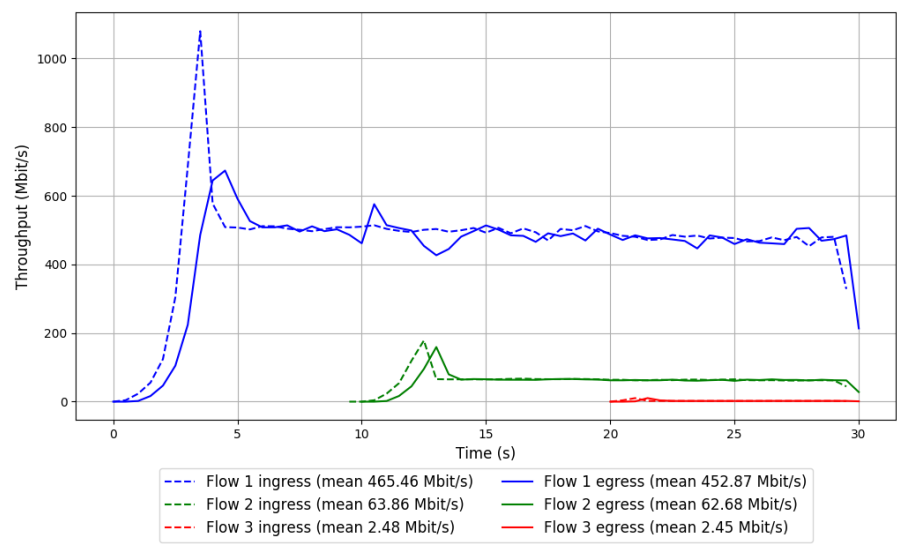
-- Flow 3:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 266.927 ms

Loss rate: 4.04%

Run 3: Report of PCC-Allegro — Data Link

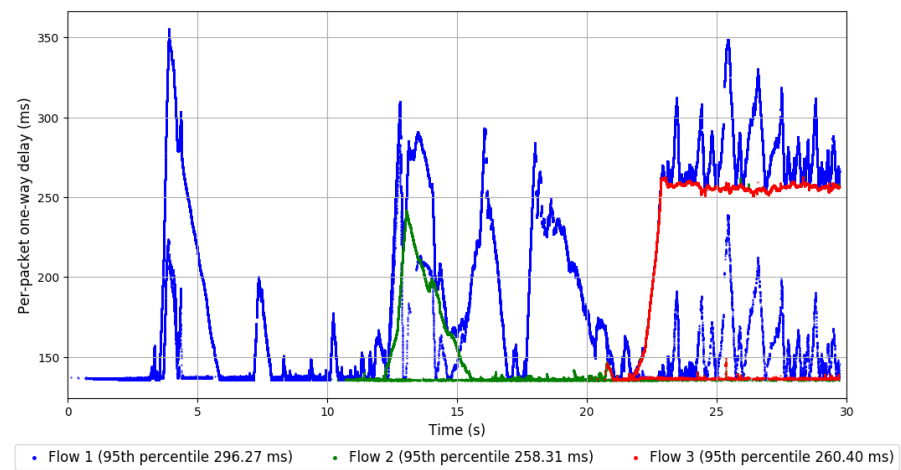
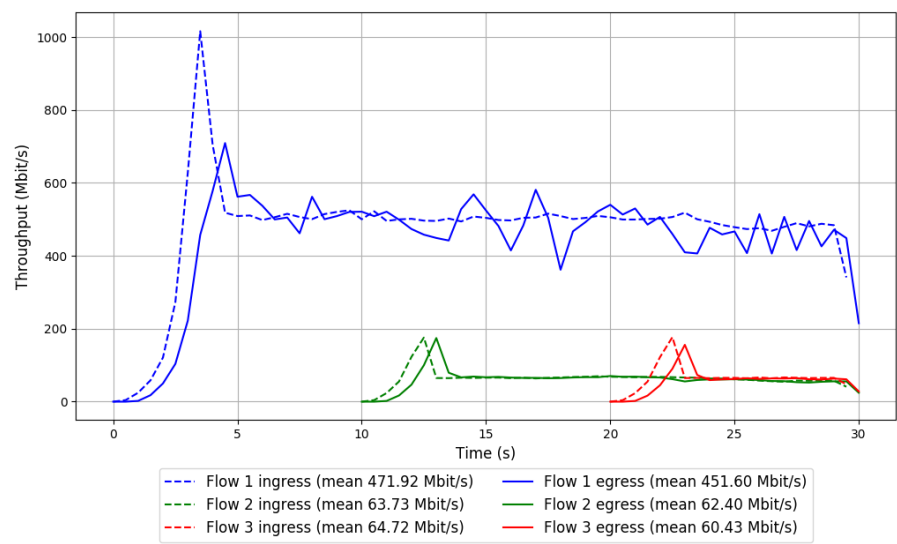


Run 4: Statistics of PCC-Allegro

Start at: 2018-07-19 18:39:46
End at: 2018-07-19 18:40:16
Local clock offset: 0.256 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-07-19 23:37:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 512.46 Mbit/s
95th percentile per-packet one-way delay: 292.216 ms
Loss rate: 5.20%
-- Flow 1:
Average throughput: 451.60 Mbit/s
95th percentile per-packet one-way delay: 296.273 ms
Loss rate: 5.18%
-- Flow 2:
Average throughput: 62.40 Mbit/s
95th percentile per-packet one-way delay: 258.307 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 260.396 ms
Loss rate: 9.23%

Run 4: Report of PCC-Allegro — Data Link

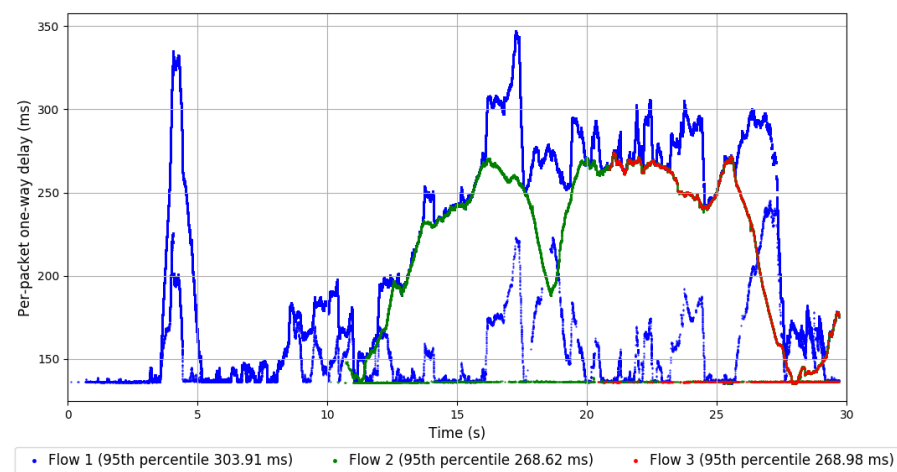
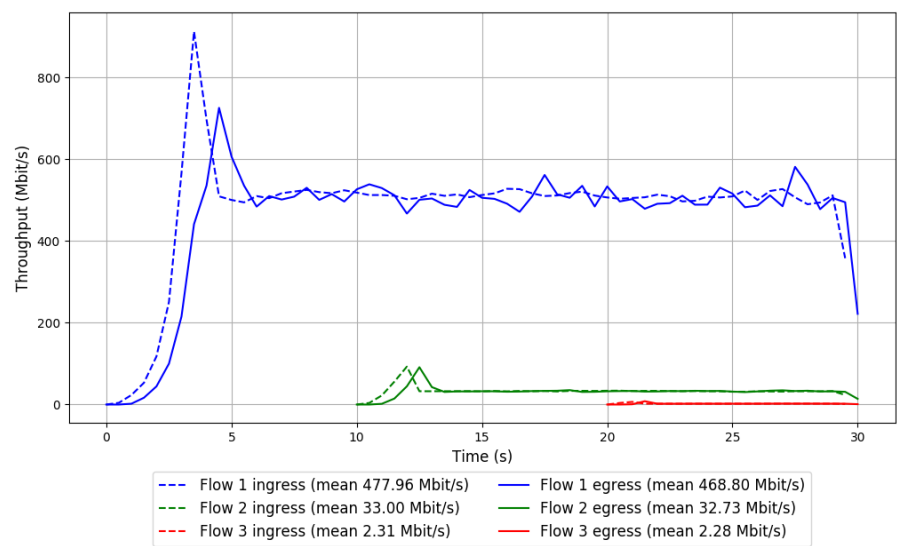


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-19 19:06:34
End at: 2018-07-19 19:07:04
Local clock offset: -0.044 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-07-19 23:37:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.16 Mbit/s
95th percentile per-packet one-way delay: 303.345 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 468.80 Mbit/s
95th percentile per-packet one-way delay: 303.907 ms
Loss rate: 2.81%
-- Flow 2:
Average throughput: 32.73 Mbit/s
95th percentile per-packet one-way delay: 268.621 ms
Loss rate: 2.16%
-- Flow 3:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 268.978 ms
Loss rate: 4.26%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-19 19:33:43

End at: 2018-07-19 19:34:13

Local clock offset: -0.097 ms

Remote clock offset: 2.416 ms

Below is generated by plot.py at 2018-07-19 23:43:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.75 Mbit/s

95th percentile per-packet one-way delay: 269.873 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 442.29 Mbit/s

95th percentile per-packet one-way delay: 271.537 ms

Loss rate: 2.94%

-- Flow 2:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 255.670 ms

Loss rate: 1.86%

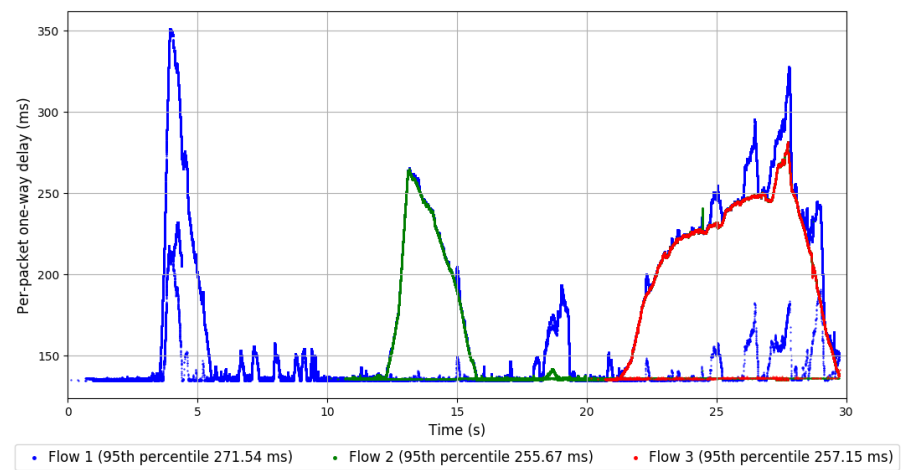
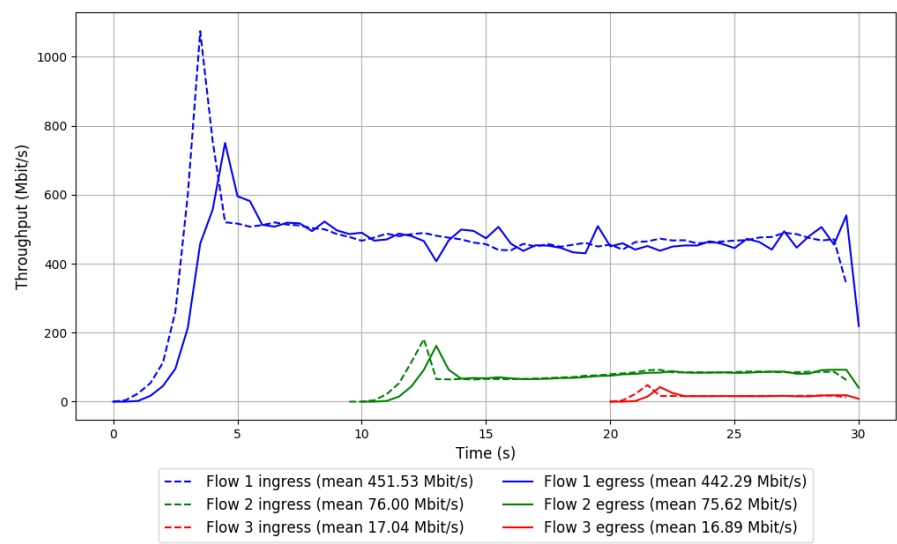
-- Flow 3:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 257.146 ms

Loss rate: 3.62%

Run 6: Report of PCC-Allegro — Data Link

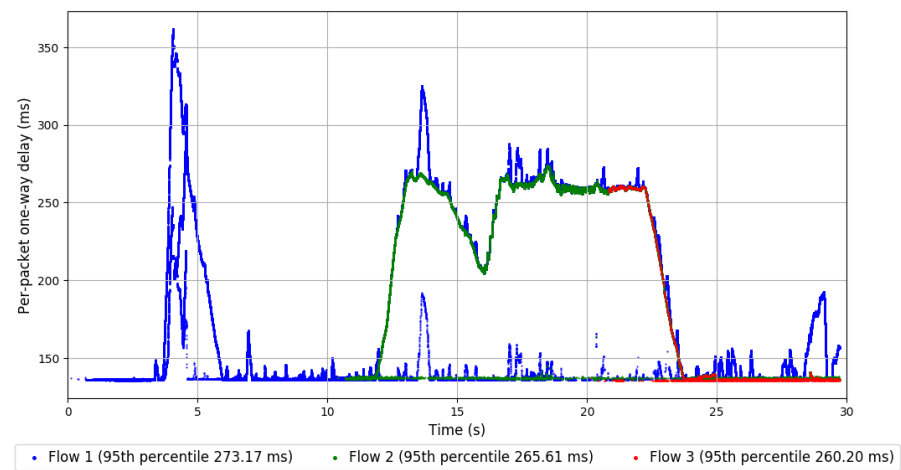
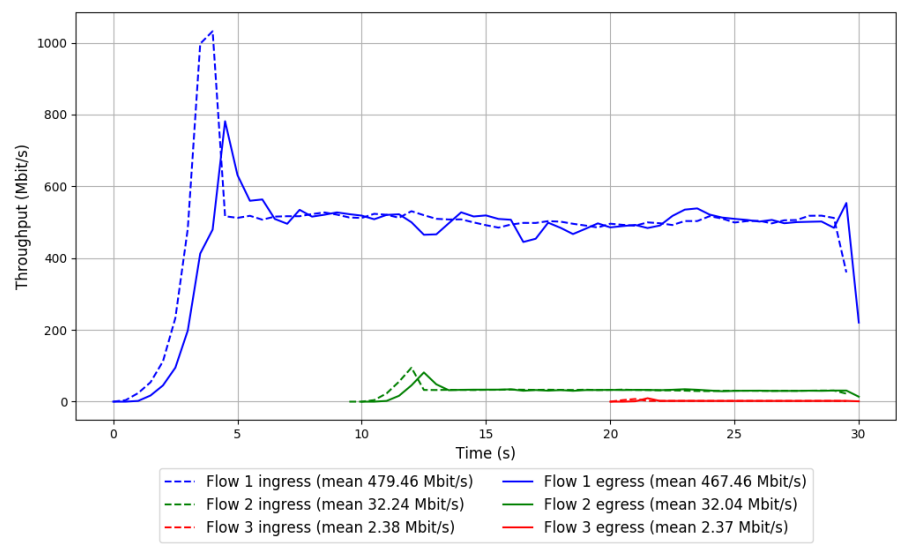


Run 7: Statistics of PCC-Allegro

Start at: 2018-07-19 20:00:47
End at: 2018-07-19 20:01:18
Local clock offset: -0.115 ms
Remote clock offset: 14.124 ms

Below is generated by plot.py at 2018-07-19 23:43:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 489.44 Mbit/s
95th percentile per-packet one-way delay: 272.282 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 467.46 Mbit/s
95th percentile per-packet one-way delay: 273.170 ms
Loss rate: 3.39%
-- Flow 2:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 265.606 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 260.204 ms
Loss rate: 2.99%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-19 20:27:56

End at: 2018-07-19 20:28:26

Local clock offset: -0.208 ms

Remote clock offset: 6.973 ms

Below is generated by plot.py at 2018-07-19 23:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 512.46 Mbit/s

95th percentile per-packet one-way delay: 296.319 ms

Loss rate: 3.45%

-- Flow 1:

Average throughput: 459.56 Mbit/s

95th percentile per-packet one-way delay: 300.207 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 260.356 ms

Loss rate: 2.48%

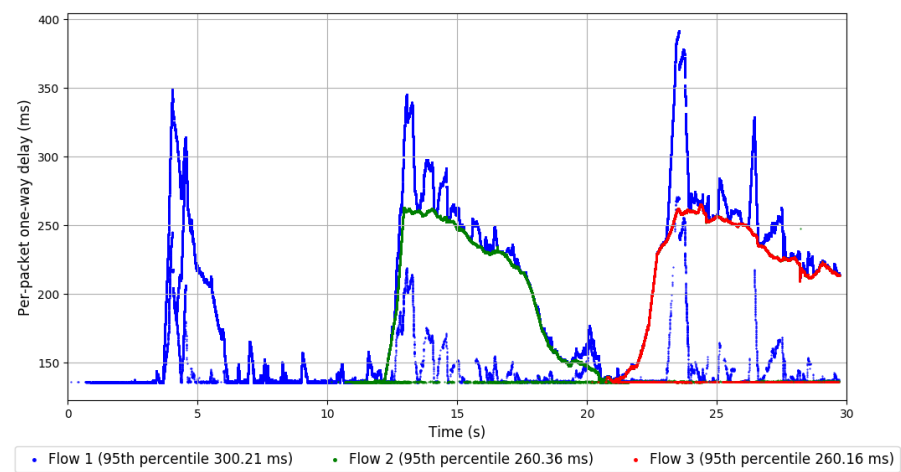
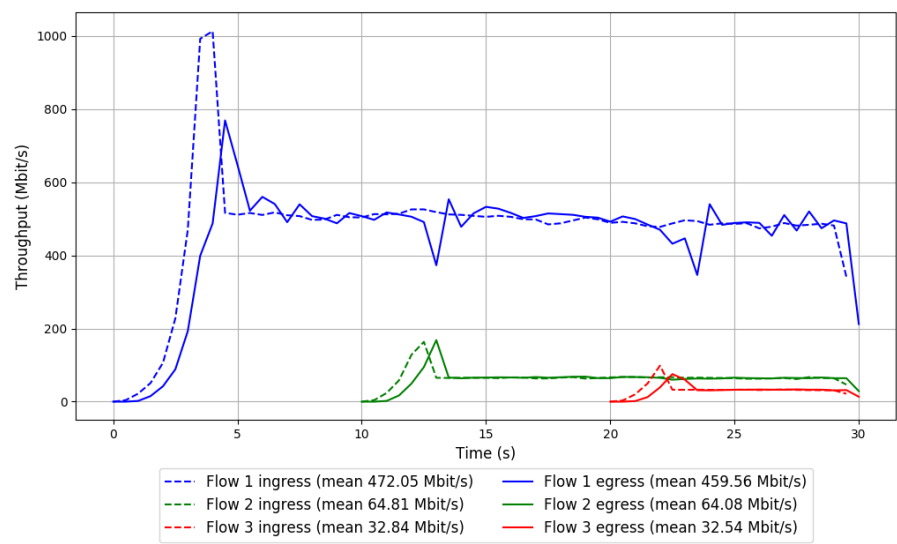
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 260.158 ms

Loss rate: 3.66%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-19 20:54:54

End at: 2018-07-19 20:55:24

Local clock offset: 0.145 ms

Remote clock offset: 3.433 ms

Below is generated by plot.py at 2018-07-19 23:45:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.97 Mbit/s

95th percentile per-packet one-way delay: 282.993 ms

Loss rate: 3.46%

-- Flow 1:

Average throughput: 462.54 Mbit/s

95th percentile per-packet one-way delay: 286.333 ms

Loss rate: 3.49%

-- Flow 2:

Average throughput: 63.37 Mbit/s

95th percentile per-packet one-way delay: 261.881 ms

Loss rate: 2.60%

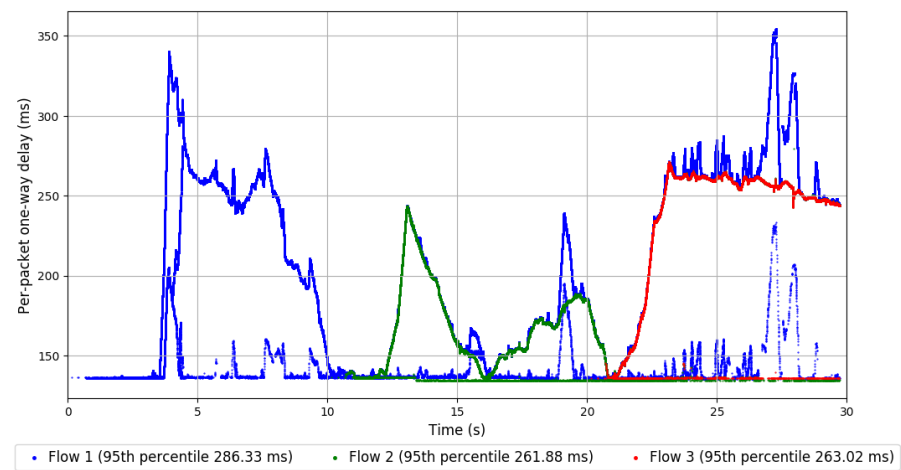
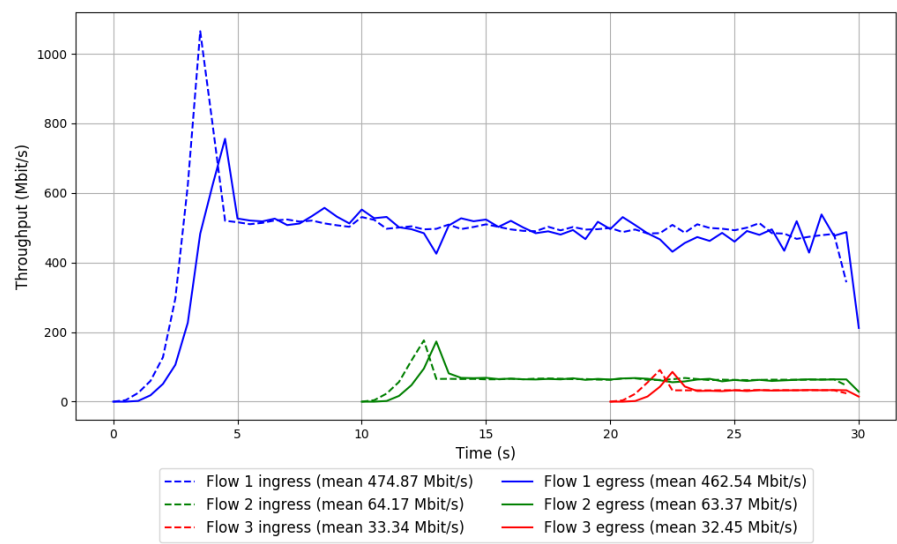
-- Flow 3:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 263.018 ms

Loss rate: 5.37%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-19 21:21:48

End at: 2018-07-19 21:22:18

Local clock offset: 0.004 ms

Remote clock offset: 1.859 ms

Below is generated by plot.py at 2018-07-19 23:45:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.96 Mbit/s

95th percentile per-packet one-way delay: 314.540 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 425.48 Mbit/s

95th percentile per-packet one-way delay: 317.828 ms

Loss rate: 4.59%

-- Flow 2:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 267.882 ms

Loss rate: 3.96%

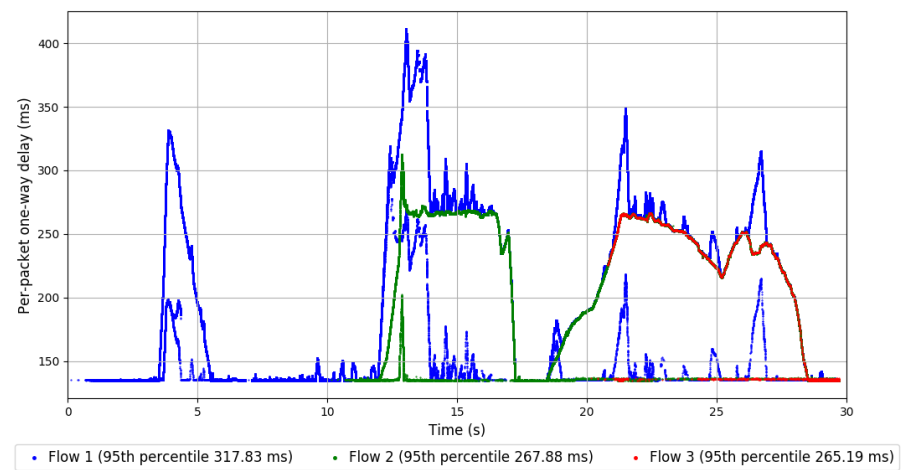
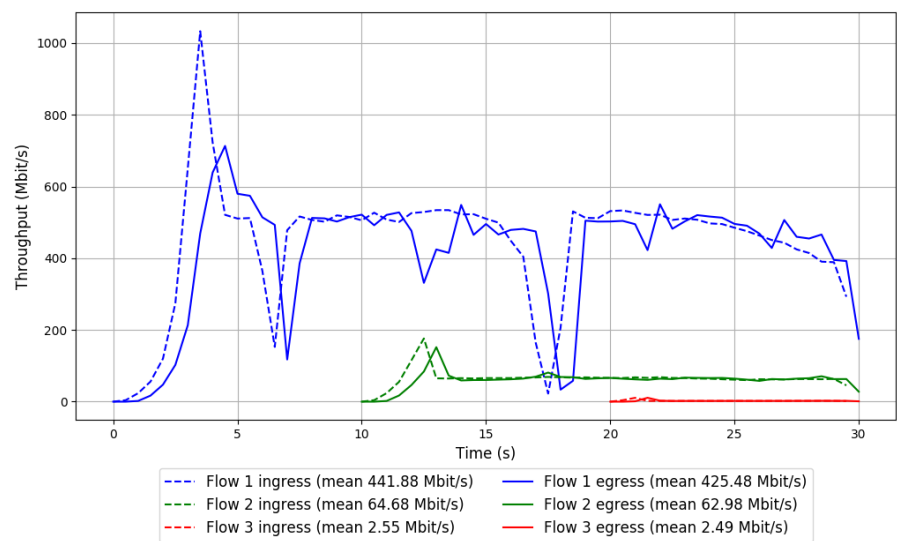
-- Flow 3:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 265.189 ms

Loss rate: 5.04%

Run 10: Report of PCC-Allegro — Data Link

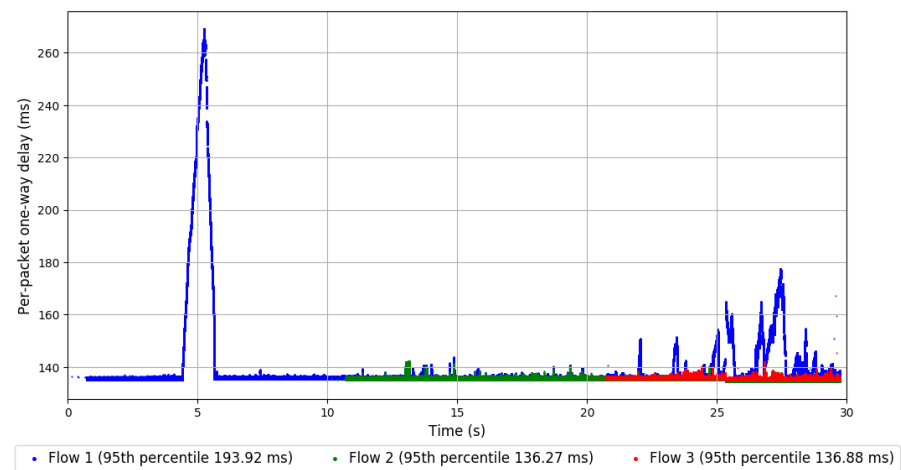
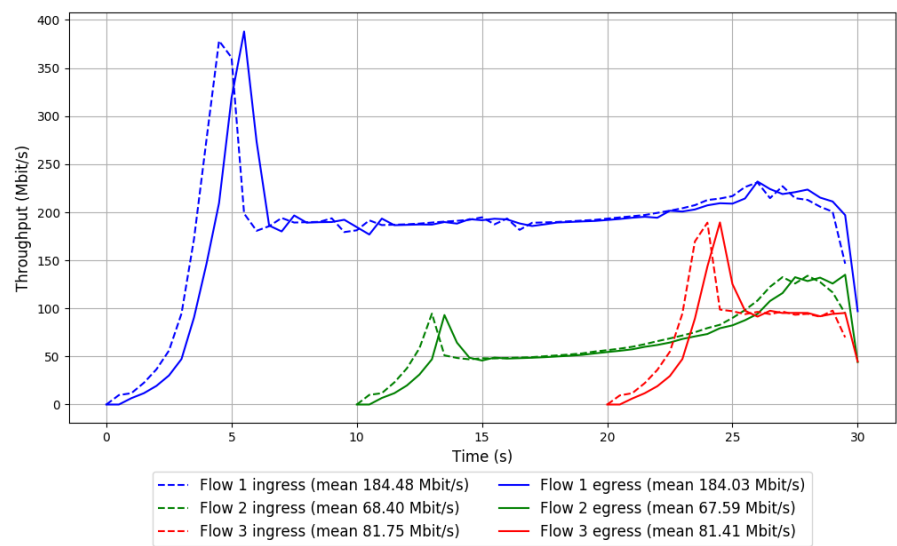


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-19 17:38:02
End at: 2018-07-19 17:38:32
Local clock offset: -0.018 ms
Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-07-19 23:45:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.14 Mbit/s
95th percentile per-packet one-way delay: 171.986 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 184.03 Mbit/s
95th percentile per-packet one-way delay: 193.917 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 67.59 Mbit/s
95th percentile per-packet one-way delay: 136.269 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 136.884 ms
Loss rate: 3.19%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-19 18:04:51

End at: 2018-07-19 18:05:21

Local clock offset: -0.185 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-07-19 23:48:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.46 Mbit/s

95th percentile per-packet one-way delay: 157.307 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 174.02 Mbit/s

95th percentile per-packet one-way delay: 169.601 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 172.23 Mbit/s

95th percentile per-packet one-way delay: 154.298 ms

Loss rate: 1.52%

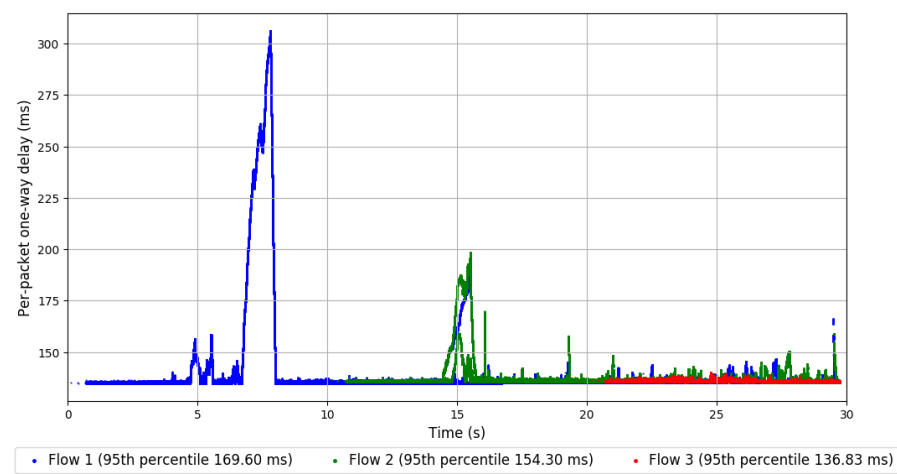
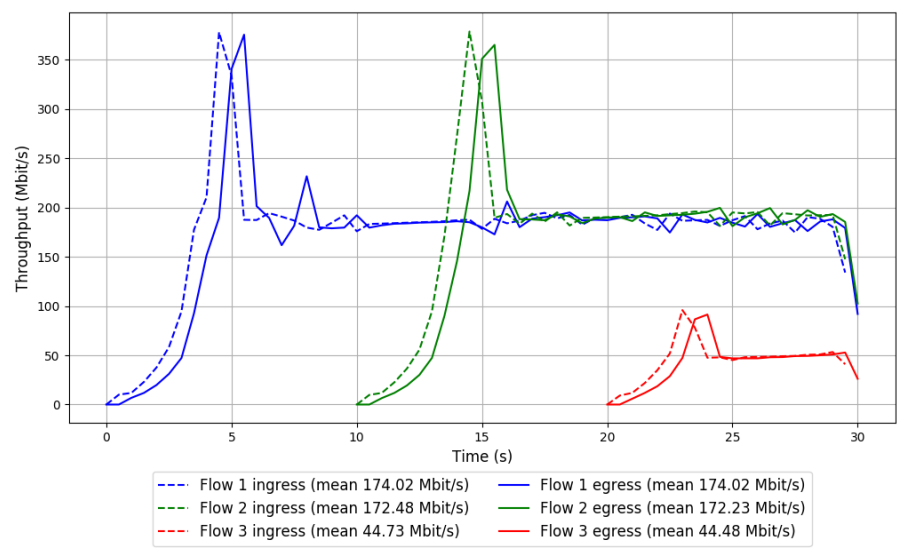
-- Flow 3:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 3.31%

Run 2: Report of PCC-Expr — Data Link

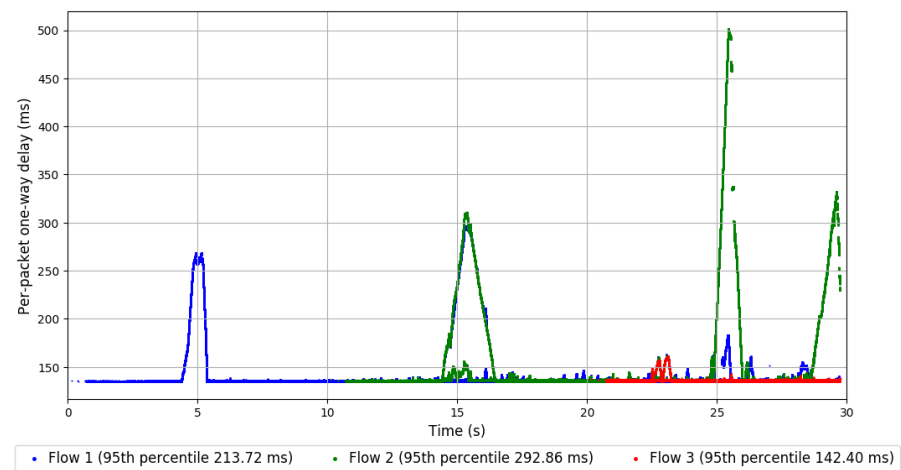
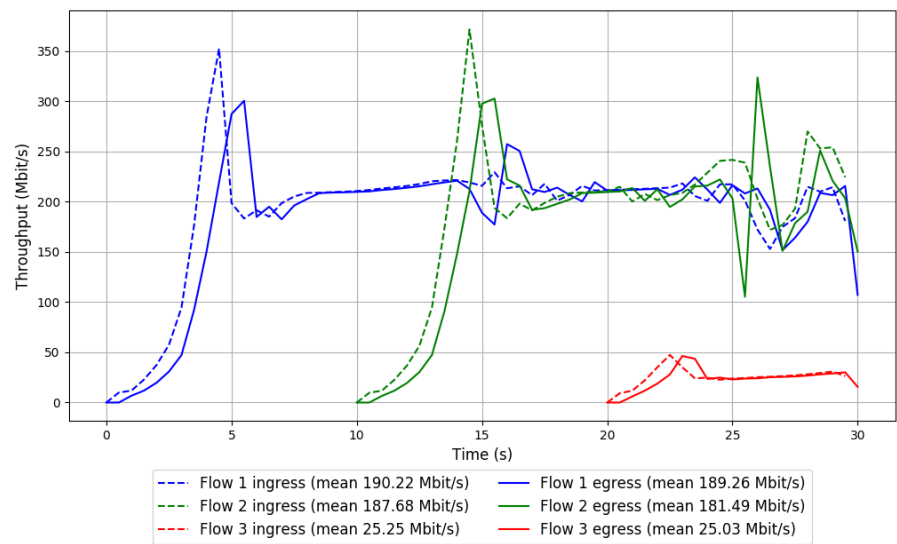


Run 3: Statistics of PCC-Expr

Start at: 2018-07-19 18:32:03
End at: 2018-07-19 18:32:34
Local clock offset: -0.04 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-07-19 23:48:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 317.46 Mbit/s
95th percentile per-packet one-way delay: 257.905 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 189.26 Mbit/s
95th percentile per-packet one-way delay: 213.724 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 181.49 Mbit/s
95th percentile per-packet one-way delay: 292.855 ms
Loss rate: 4.80%
-- Flow 3:
Average throughput: 25.03 Mbit/s
95th percentile per-packet one-way delay: 142.400 ms
Loss rate: 3.91%

Run 3: Report of PCC-Expr — Data Link

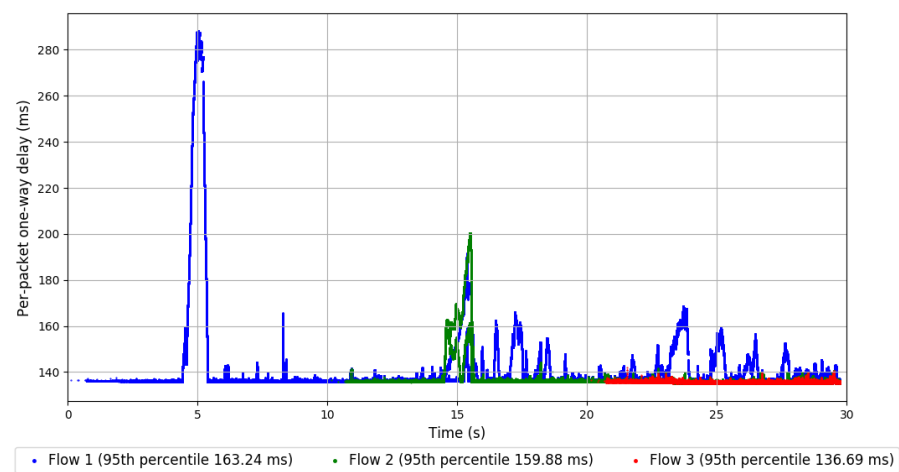
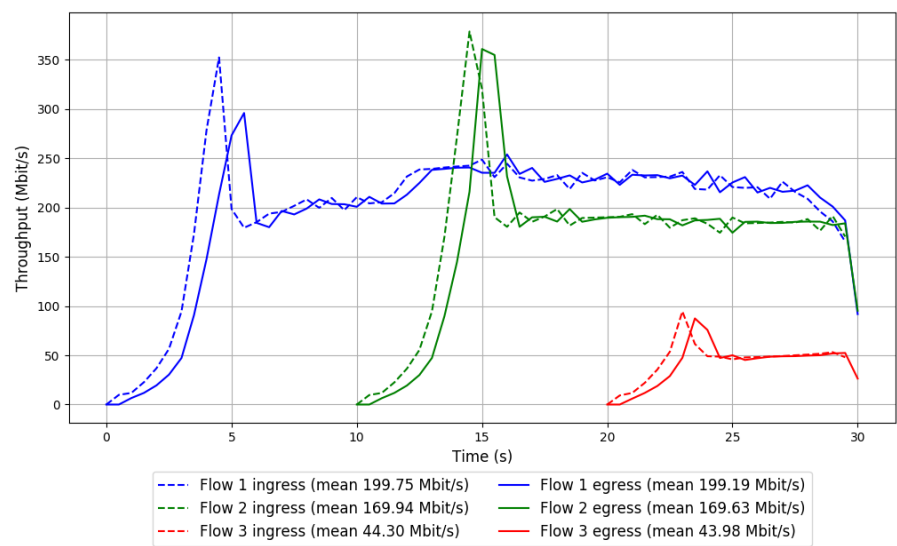


Run 4: Statistics of PCC-Expr

Start at: 2018-07-19 18:58:54
End at: 2018-07-19 18:59:24
Local clock offset: 0.033 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-07-19 23:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.71 Mbit/s
95th percentile per-packet one-way delay: 160.962 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 199.19 Mbit/s
95th percentile per-packet one-way delay: 163.242 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 169.63 Mbit/s
95th percentile per-packet one-way delay: 159.878 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 136.687 ms
Loss rate: 4.15%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-19 19:26:03

End at: 2018-07-19 19:26:33

Local clock offset: 0.011 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-07-19 23:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.53 Mbit/s

95th percentile per-packet one-way delay: 186.444 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 188.64 Mbit/s

95th percentile per-packet one-way delay: 209.861 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 167.94 Mbit/s

95th percentile per-packet one-way delay: 151.941 ms

Loss rate: 1.64%

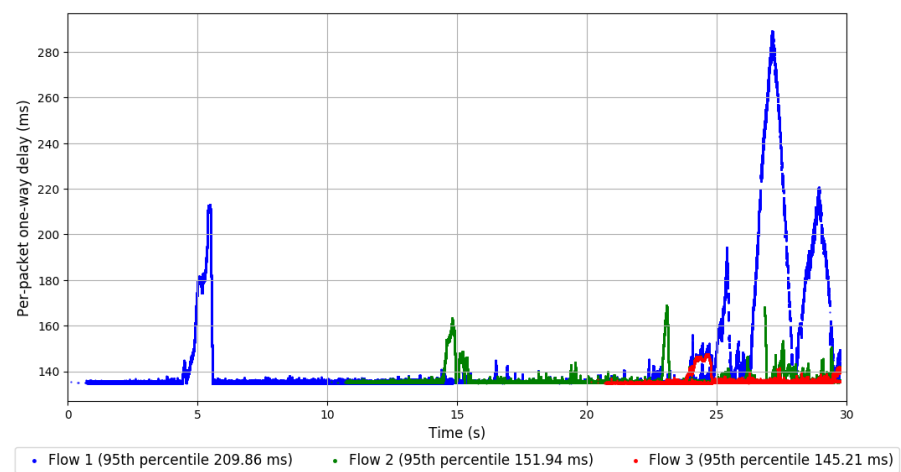
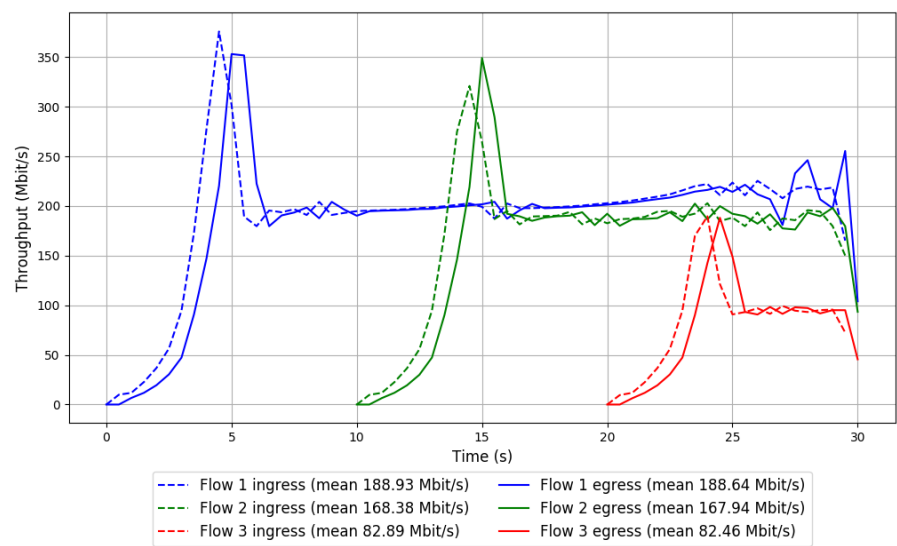
-- Flow 3:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 145.211 ms

Loss rate: 3.27%

Run 5: Report of PCC-Expr — Data Link

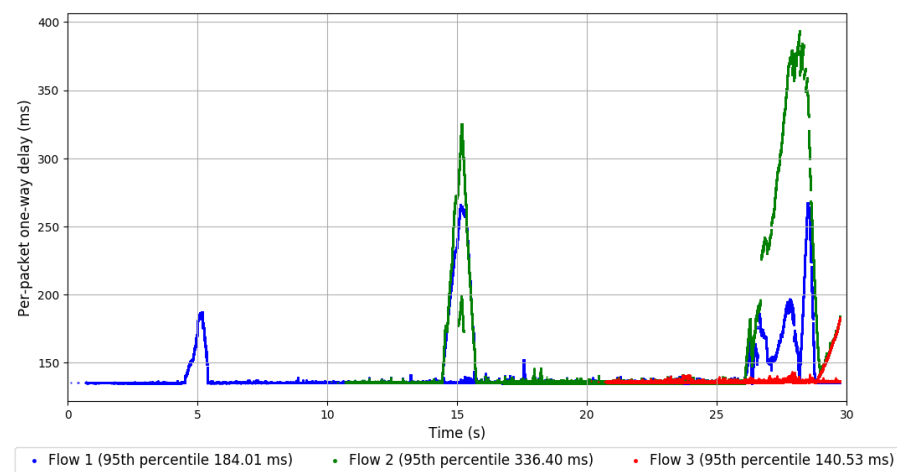
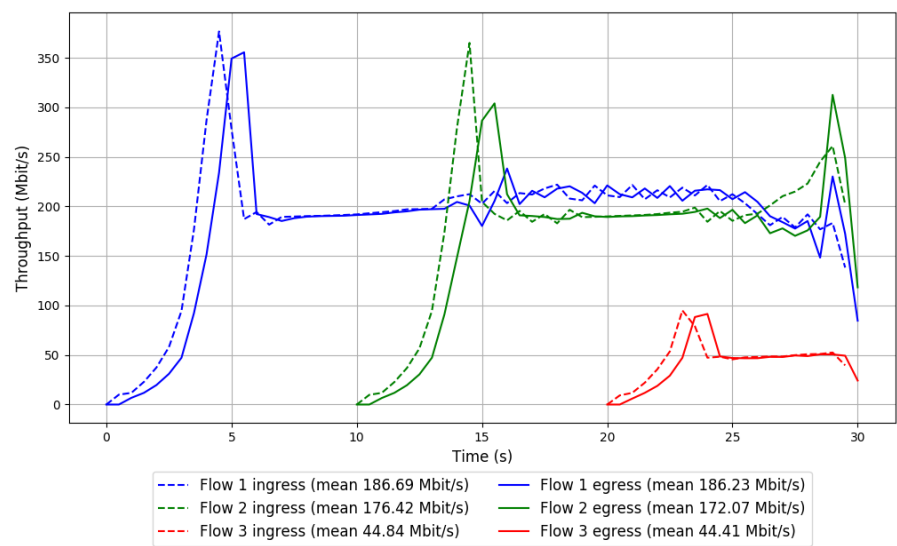


Run 6: Statistics of PCC-Expr

Start at: 2018-07-19 19:53:01
End at: 2018-07-19 19:53:31
Local clock offset: -0.162 ms
Remote clock offset: 11.058 ms

Below is generated by plot.py at 2018-07-19 23:57:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.52 Mbit/s
95th percentile per-packet one-way delay: 258.562 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 186.23 Mbit/s
95th percentile per-packet one-way delay: 184.007 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 172.07 Mbit/s
95th percentile per-packet one-way delay: 336.399 ms
Loss rate: 3.81%
-- Flow 3:
Average throughput: 44.41 Mbit/s
95th percentile per-packet one-way delay: 140.531 ms
Loss rate: 3.70%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-19 20:20:20

End at: 2018-07-19 20:20:50

Local clock offset: -0.307 ms

Remote clock offset: 6.651 ms

Below is generated by plot.py at 2018-07-19 23:58:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.62 Mbit/s

95th percentile per-packet one-way delay: 222.452 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 190.61 Mbit/s

95th percentile per-packet one-way delay: 223.919 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 180.87 Mbit/s

95th percentile per-packet one-way delay: 239.169 ms

Loss rate: 2.11%

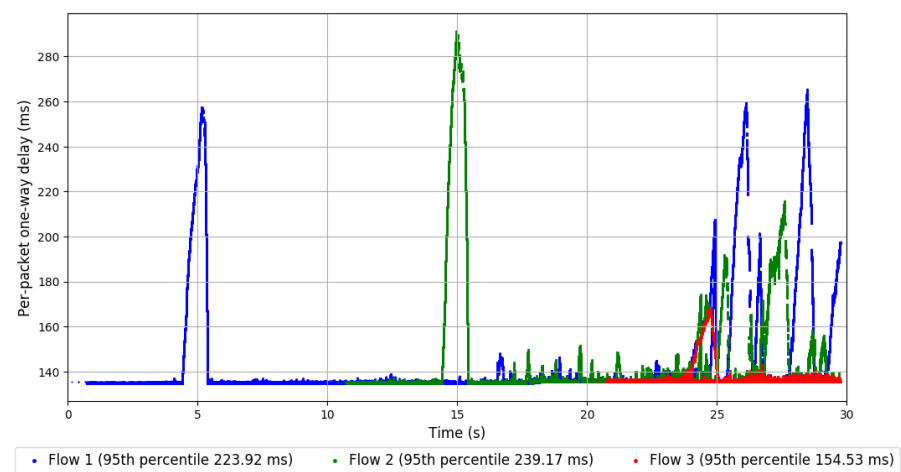
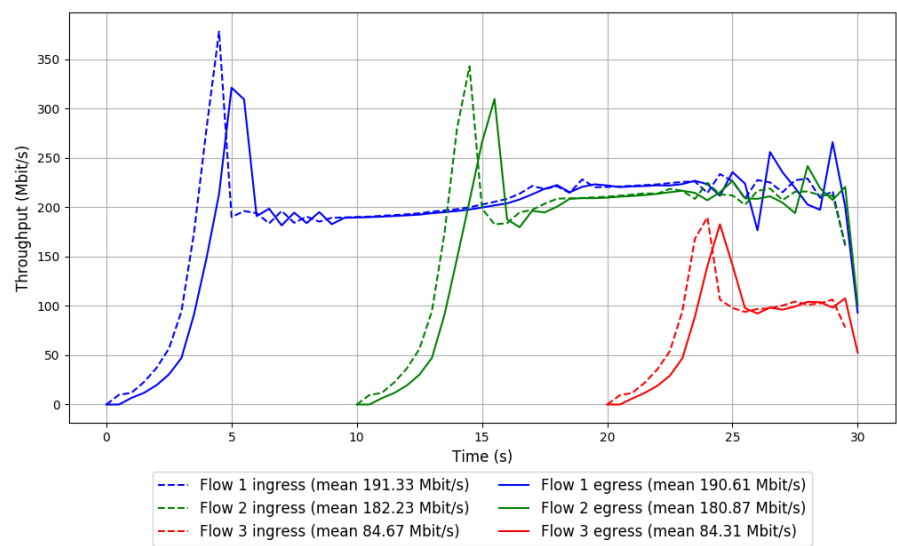
-- Flow 3:

Average throughput: 84.31 Mbit/s

95th percentile per-packet one-way delay: 154.528 ms

Loss rate: 3.25%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-19 20:47:19

End at: 2018-07-19 20:47:49

Local clock offset: 0.011 ms

Remote clock offset: 3.727 ms

Below is generated by plot.py at 2018-07-19 23:58:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.80 Mbit/s

95th percentile per-packet one-way delay: 171.058 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 185.34 Mbit/s

95th percentile per-packet one-way delay: 162.045 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 173.58 Mbit/s

95th percentile per-packet one-way delay: 227.566 ms

Loss rate: 1.75%

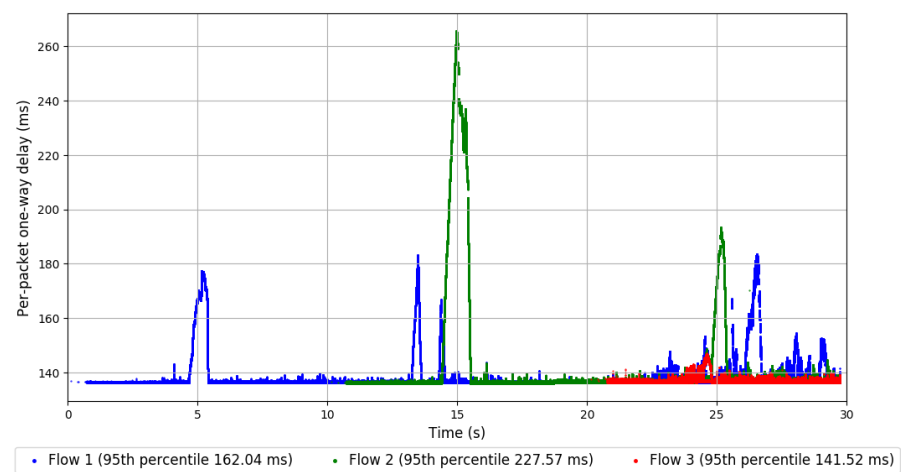
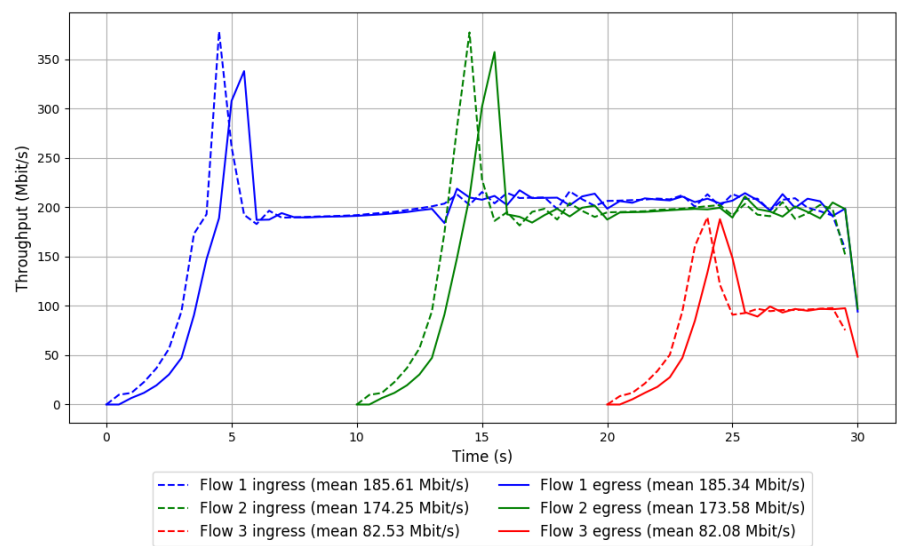
-- Flow 3:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 141.516 ms

Loss rate: 3.31%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-19 21:14:08

End at: 2018-07-19 21:14:38

Local clock offset: -0.045 ms

Remote clock offset: 3.265 ms

Below is generated by plot.py at 2018-07-19 23:58:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.00 Mbit/s

95th percentile per-packet one-way delay: 205.214 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 183.70 Mbit/s

95th percentile per-packet one-way delay: 186.606 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 171.05 Mbit/s

95th percentile per-packet one-way delay: 230.760 ms

Loss rate: 1.90%

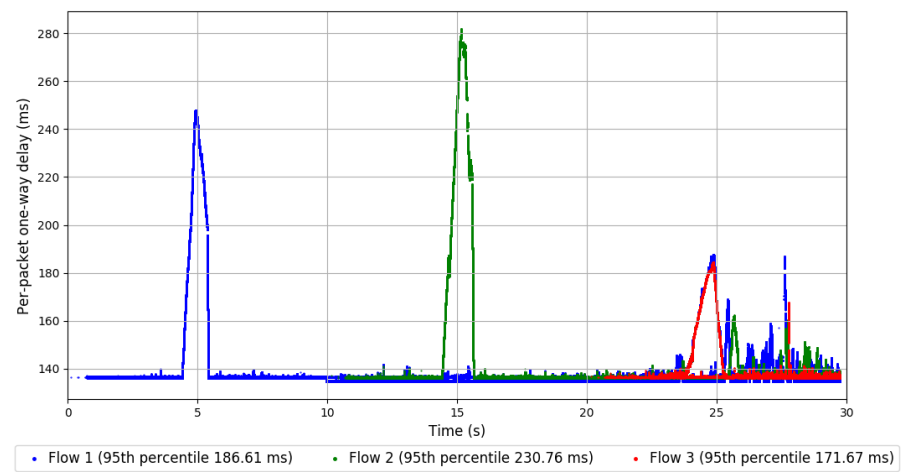
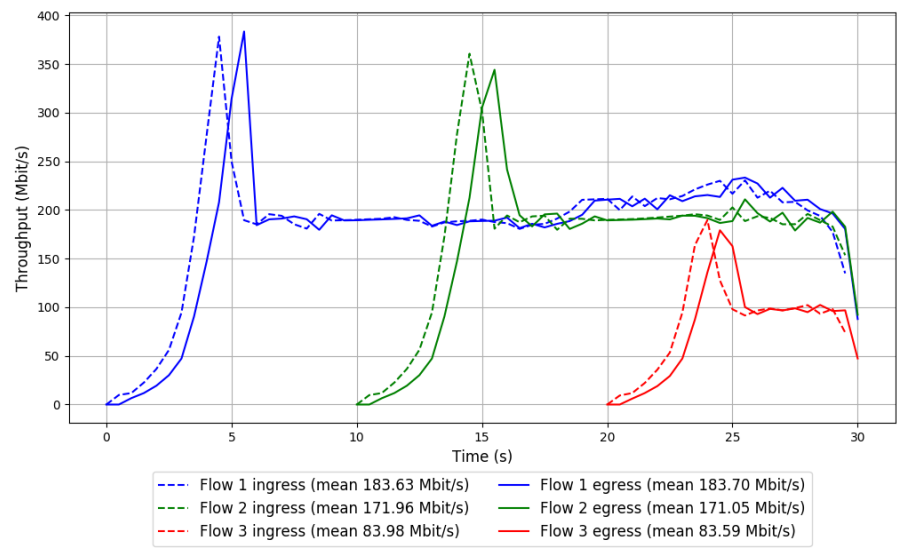
-- Flow 3:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 171.667 ms

Loss rate: 3.23%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-19 21:41:07

End at: 2018-07-19 21:41:37

Local clock offset: 0.007 ms

Remote clock offset: 0.508 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.42 Mbit/s

95th percentile per-packet one-way delay: 263.153 ms

Loss rate: 4.57%

-- Flow 1:

Average throughput: 229.21 Mbit/s

95th percentile per-packet one-way delay: 274.060 ms

Loss rate: 6.20%

-- Flow 2:

Average throughput: 173.26 Mbit/s

95th percentile per-packet one-way delay: 158.086 ms

Loss rate: 1.53%

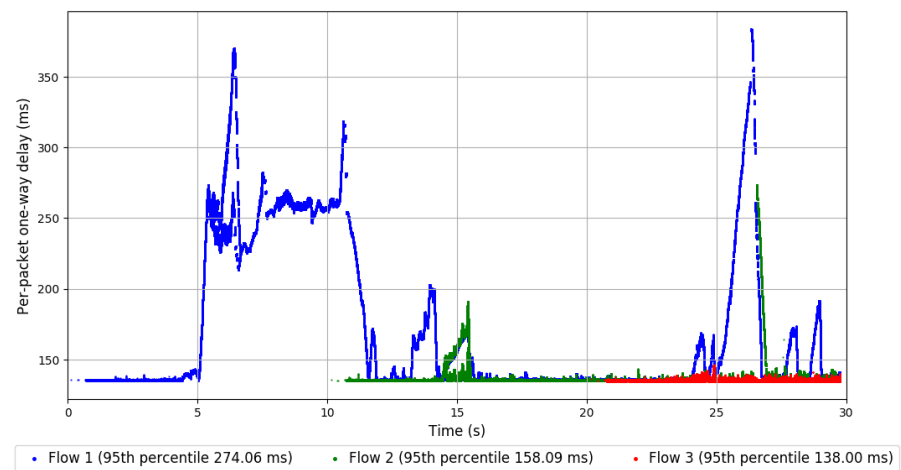
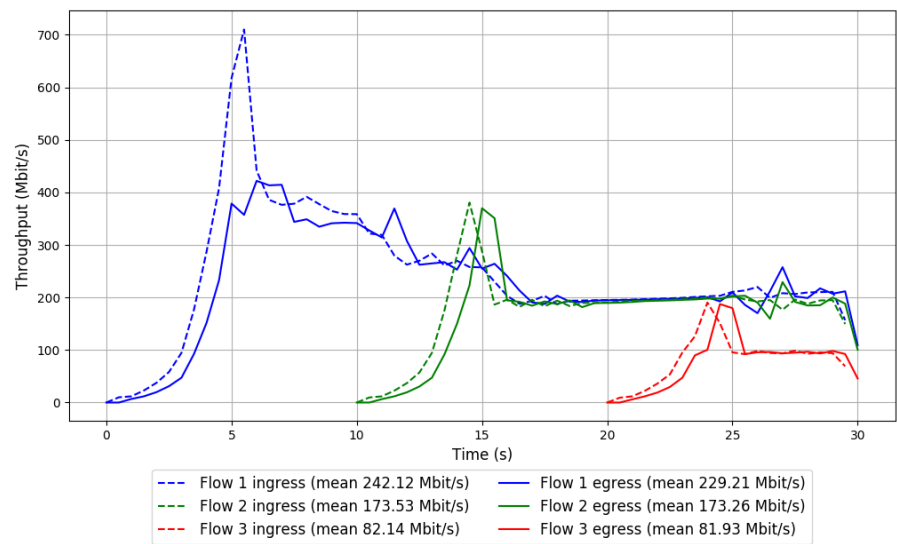
-- Flow 3:

Average throughput: 81.93 Mbit/s

95th percentile per-packet one-way delay: 138.001 ms

Loss rate: 3.03%

Run 10: Report of PCC-Expr — Data Link

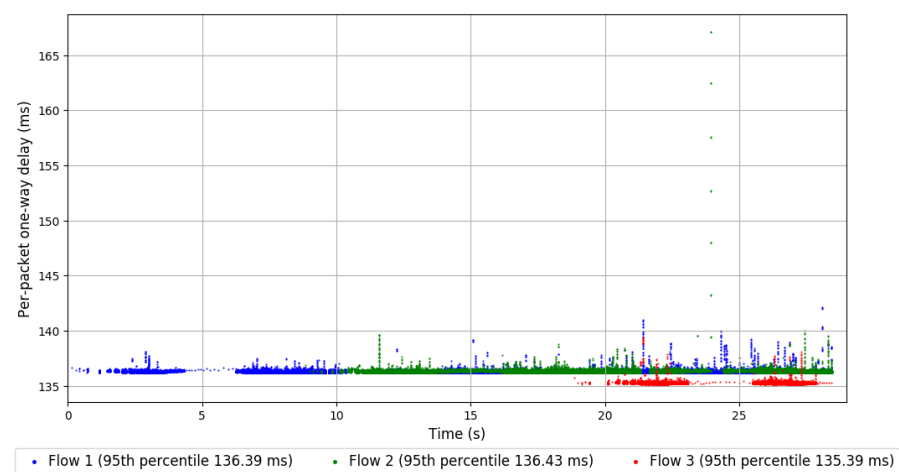
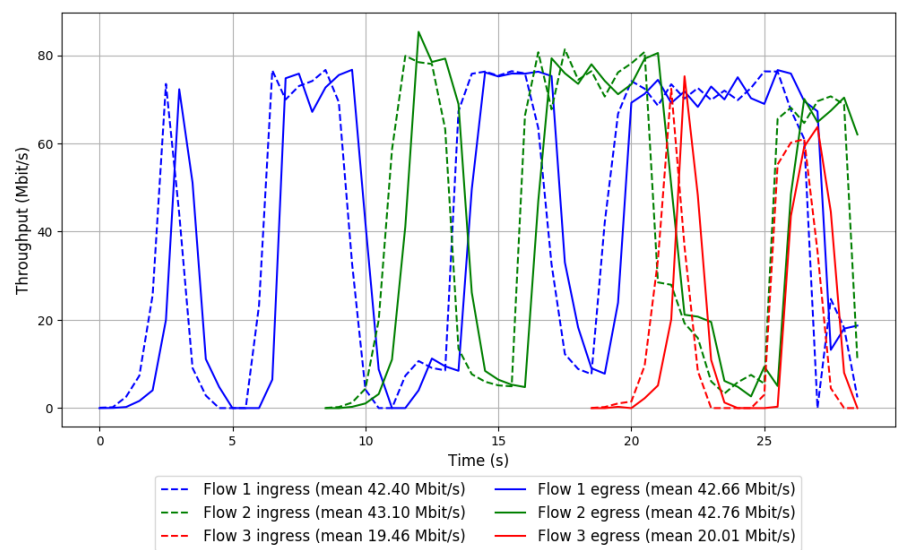


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-19 17:36:41
End at: 2018-07-19 17:37:11
Local clock offset: -0.183 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-07-20 00:03:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.01 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 136.394 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 136.434 ms
Loss rate: 2.16%
-- Flow 3:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 135.387 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-19 18:03:30

End at: 2018-07-19 18:04:00

Local clock offset: 0.164 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.56 Mbit/s

95th percentile per-packet one-way delay: 136.503 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 136.512 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 136.494 ms

Loss rate: 2.79%

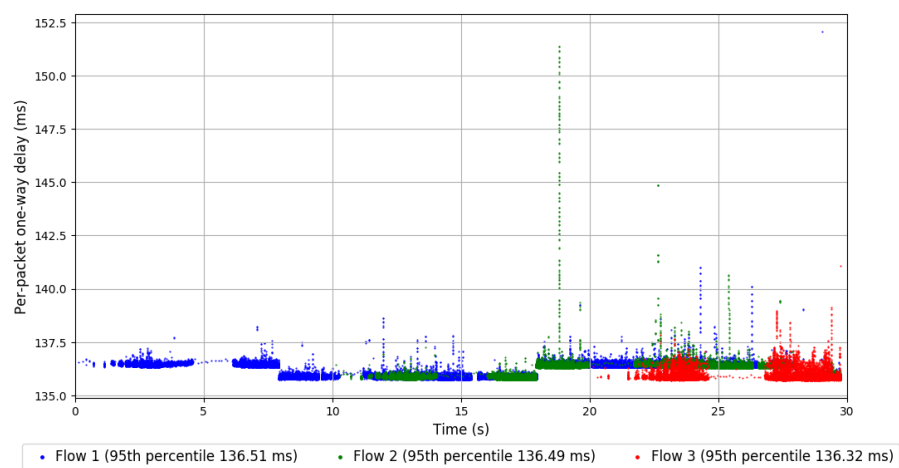
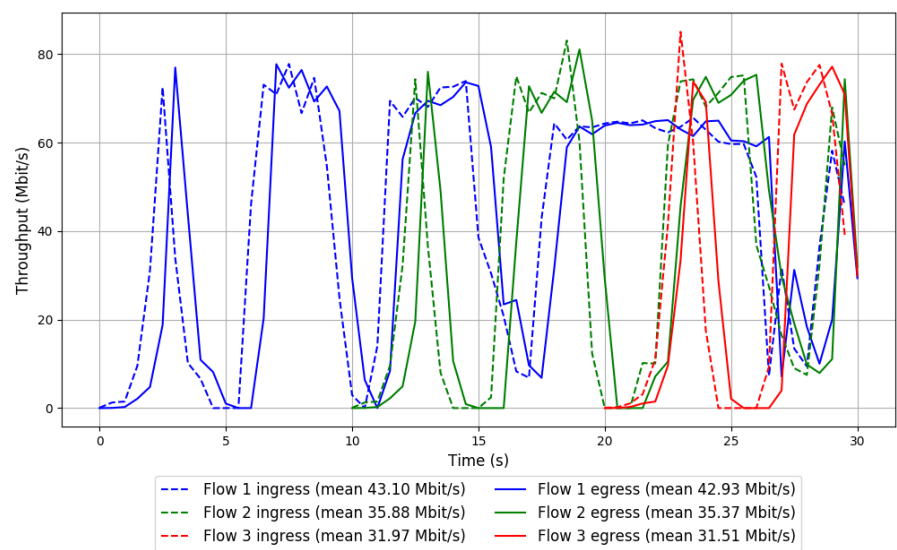
-- Flow 3:

Average throughput: 31.51 Mbit/s

95th percentile per-packet one-way delay: 136.324 ms

Loss rate: 4.10%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-19 18:30:42

End at: 2018-07-19 18:31:12

Local clock offset: -0.099 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.86 Mbit/s

95th percentile per-packet one-way delay: 136.236 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 136.302 ms

Loss rate: 2.64%

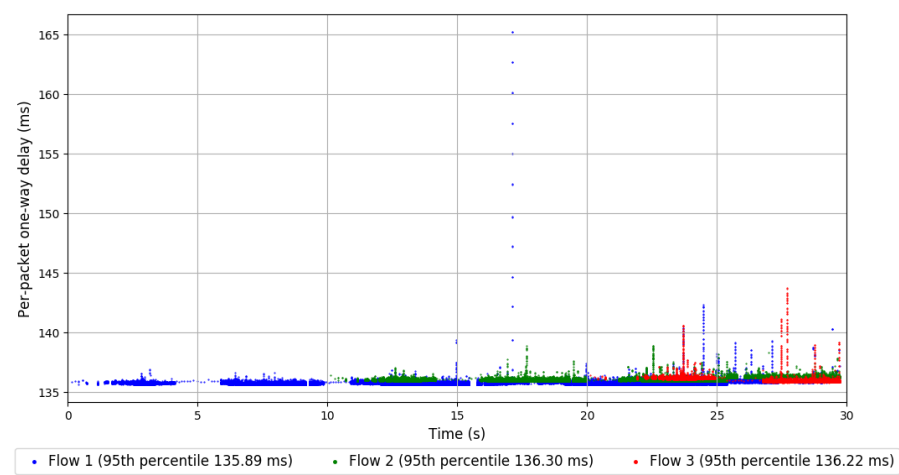
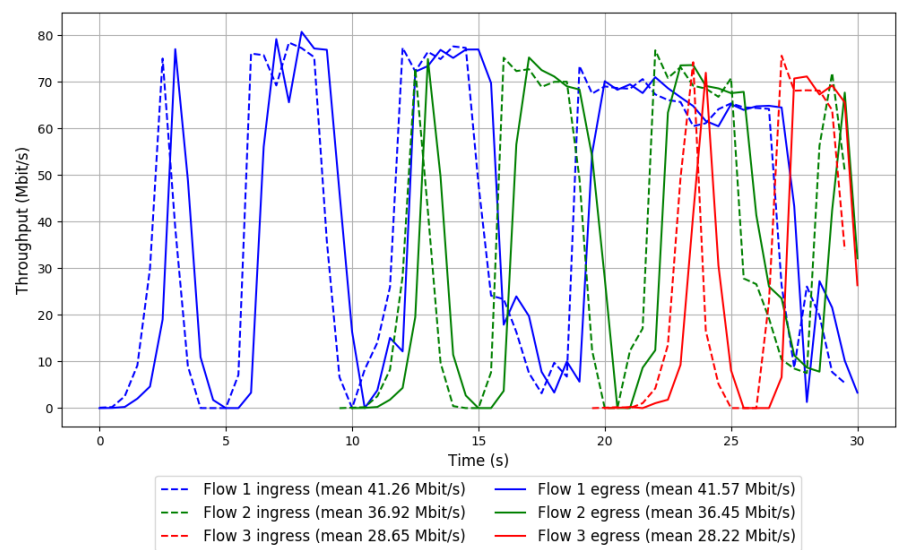
-- Flow 3:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 4.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-19 18:57:34

End at: 2018-07-19 18:58:04

Local clock offset: 0.052 ms

Remote clock offset: 0.256 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 136.256 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 136.310 ms

Loss rate: 0.97%

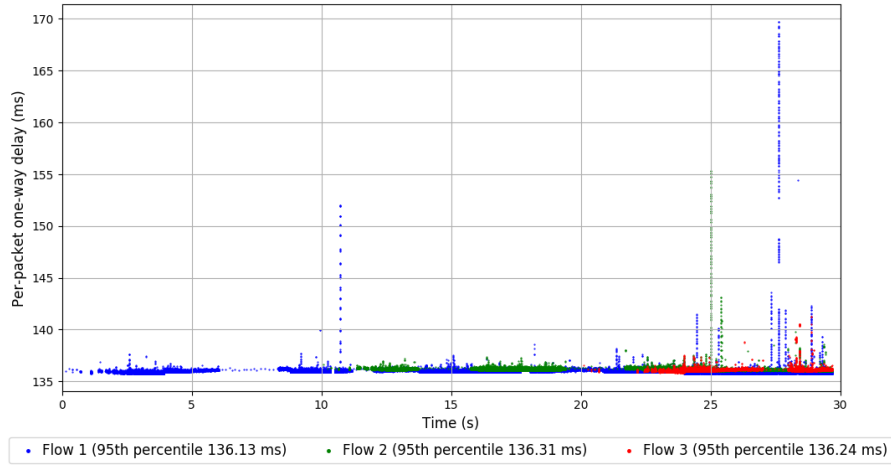
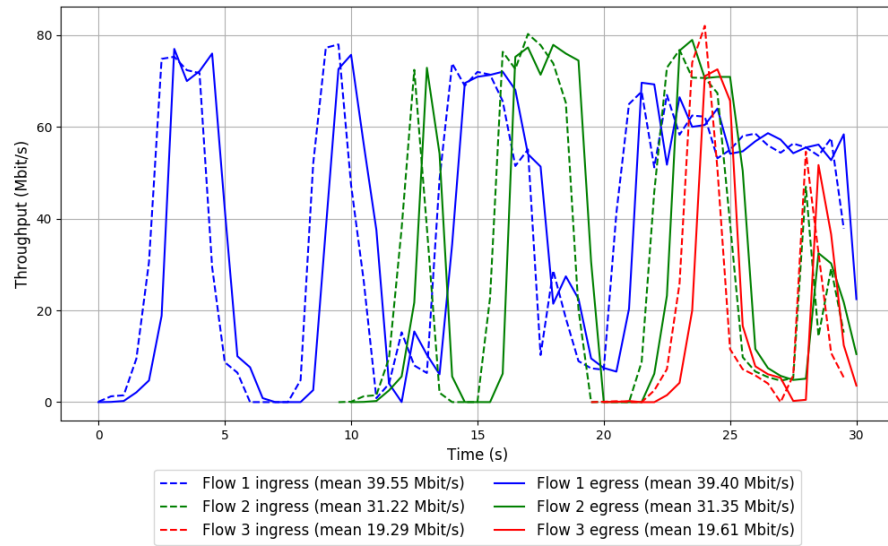
-- Flow 3:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 136.243 ms

Loss rate: 1.12%

Run 4: Report of QUIC Cubic — Data Link

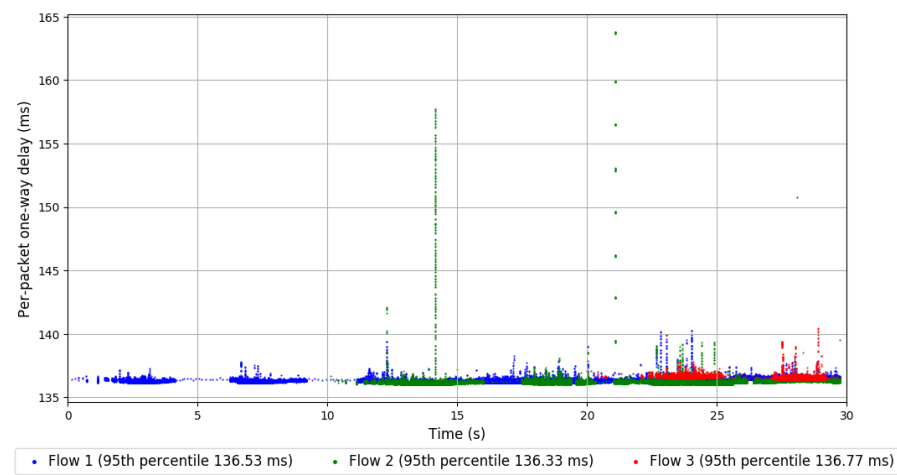
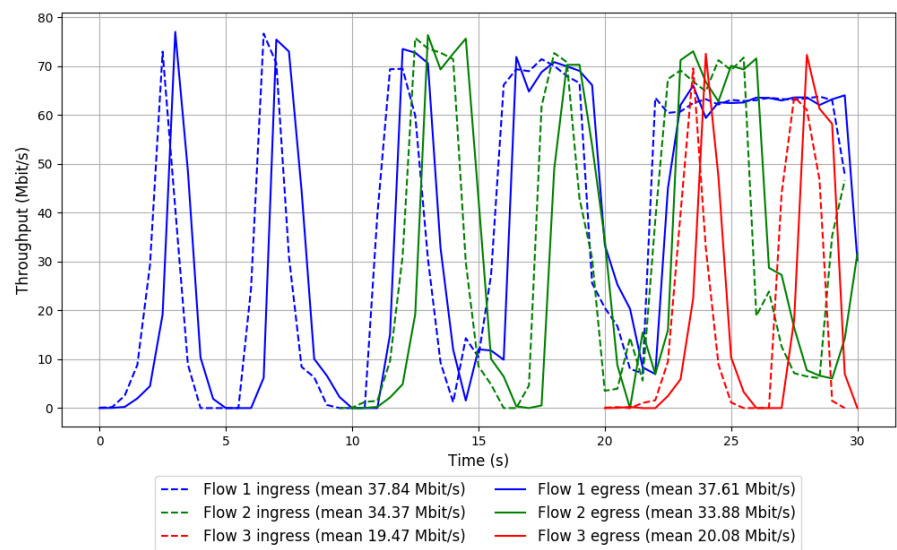


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-19 19:24:42
End at: 2018-07-19 19:25:12
Local clock offset: 0.002 ms
Remote clock offset: -0.443 ms

Below is generated by plot.py at 2018-07-20 00:03:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.50 Mbit/s
95th percentile per-packet one-way delay: 136.594 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 136.531 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 136.326 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 20.08 Mbit/s
95th percentile per-packet one-way delay: 136.768 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-19 19:51:41

End at: 2018-07-19 19:52:11

Local clock offset: -0.074 ms

Remote clock offset: 9.665 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 136.631 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 135.690 ms

Loss rate: 2.76%

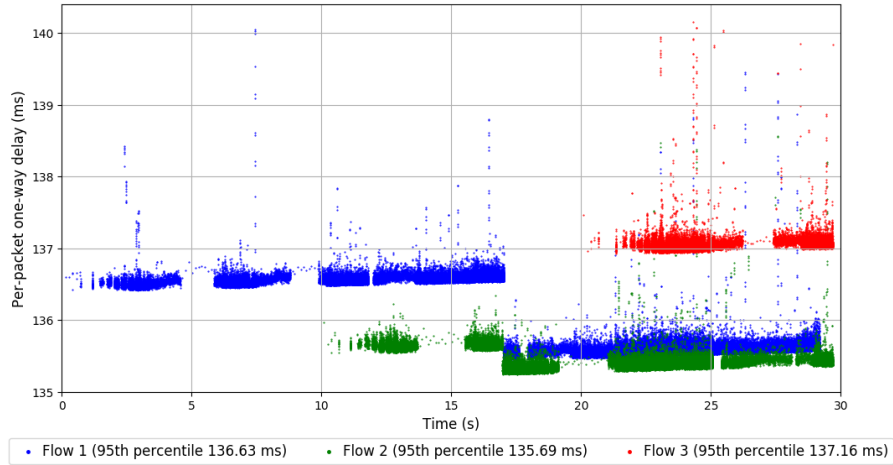
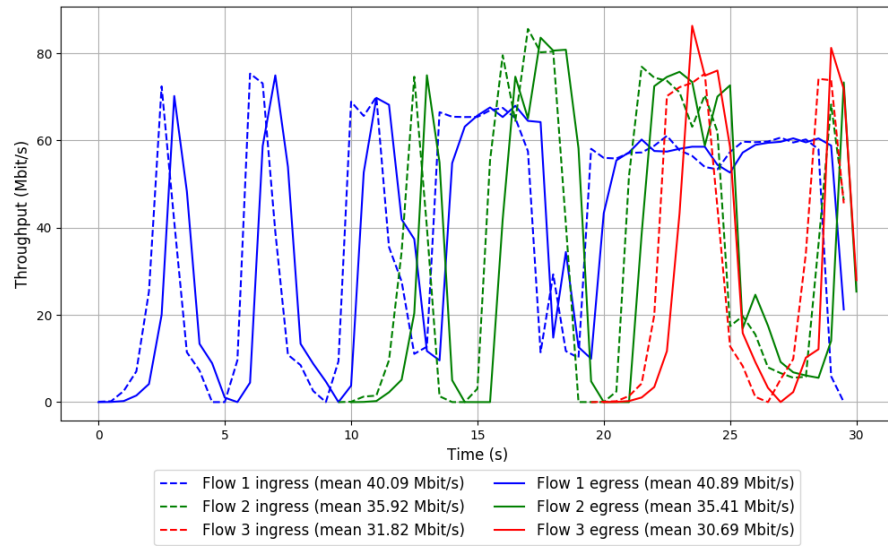
-- Flow 3:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 137.165 ms

Loss rate: 5.92%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-19 20:18:59

End at: 2018-07-19 20:19:29

Local clock offset: -0.23 ms

Remote clock offset: 6.444 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 136.147 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 135.731 ms

Loss rate: 0.40%

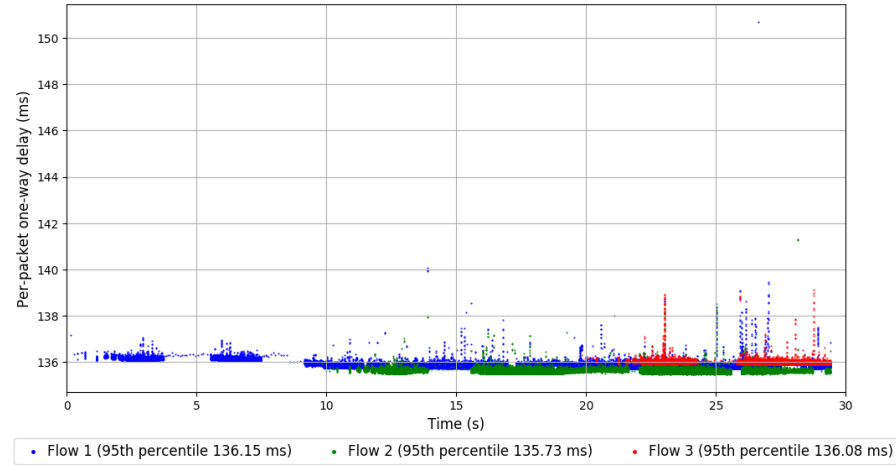
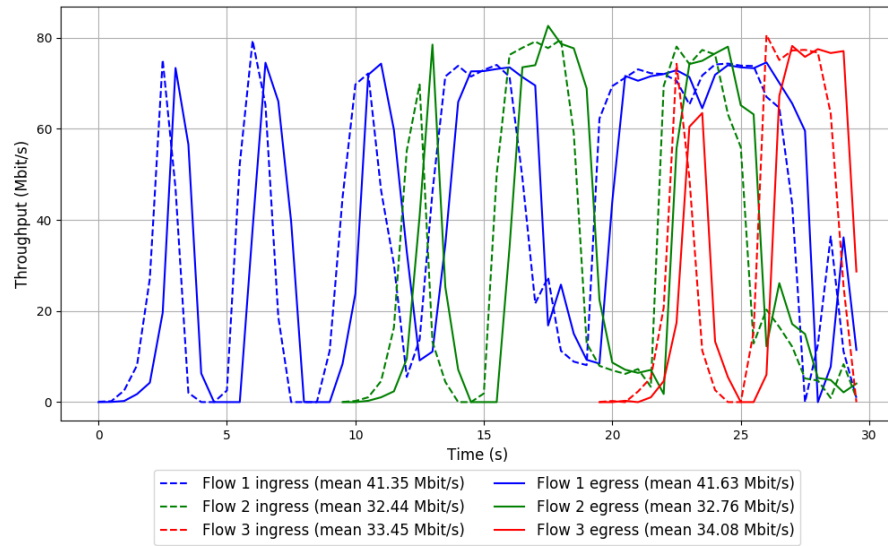
-- Flow 3:

Average throughput: 34.08 Mbit/s

95th percentile per-packet one-way delay: 136.076 ms

Loss rate: 0.62%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-19 20:45:58

End at: 2018-07-19 20:46:28

Local clock offset: -0.124 ms

Remote clock offset: 4.457 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.54 Mbit/s

95th percentile per-packet one-way delay: 136.306 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 136.209 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 136.362 ms

Loss rate: 2.72%

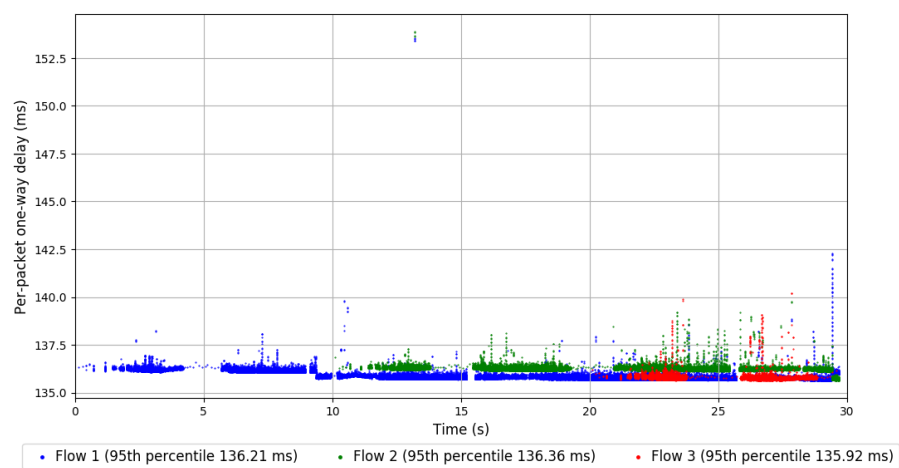
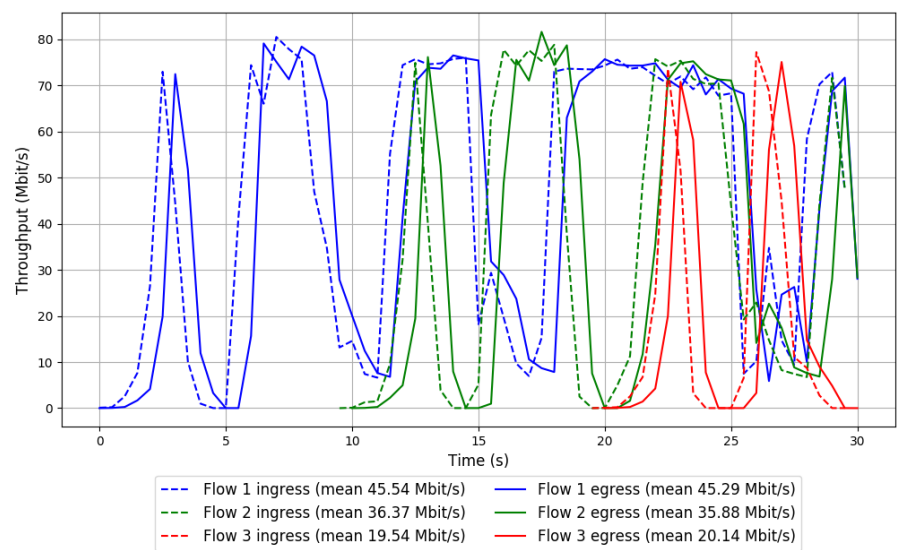
-- Flow 3:

Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 135.919 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-19 21:12:47

End at: 2018-07-19 21:13:17

Local clock offset: -0.287 ms

Remote clock offset: 4.361 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 135.679 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 40.82 Mbit/s

95th percentile per-packet one-way delay: 135.709 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.25 Mbit/s

95th percentile per-packet one-way delay: 134.986 ms

Loss rate: 2.28%

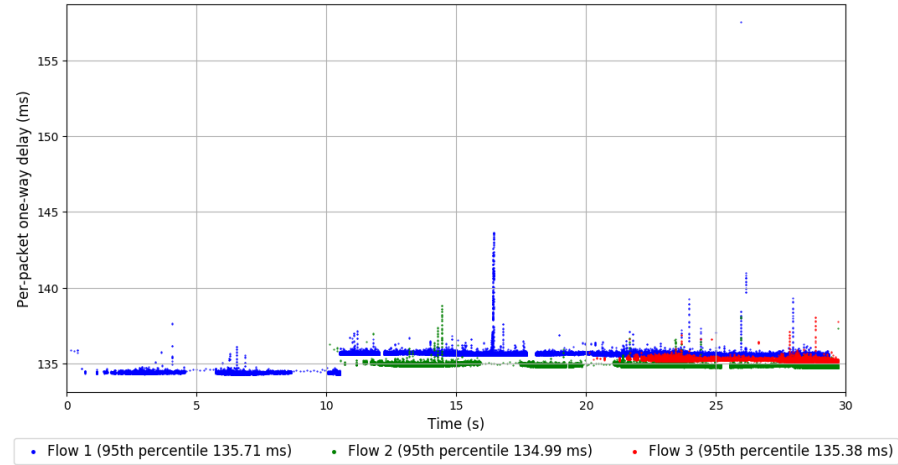
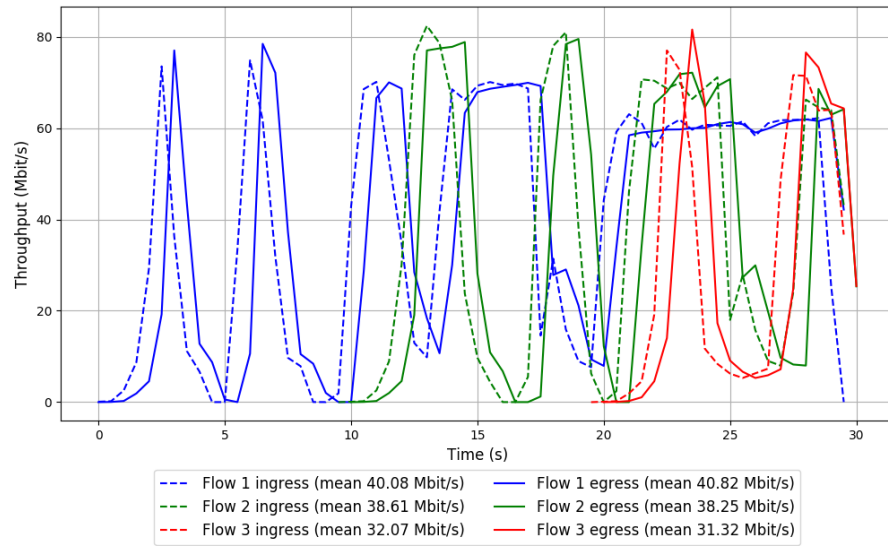
-- Flow 3:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 135.380 ms

Loss rate: 4.53%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-19 21:39:46

End at: 2018-07-19 21:40:16

Local clock offset: 0.145 ms

Remote clock offset: 0.759 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.04 Mbit/s

95th percentile per-packet one-way delay: 136.259 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 43.98 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 38.51 Mbit/s

95th percentile per-packet one-way delay: 134.874 ms

Loss rate: 2.51%

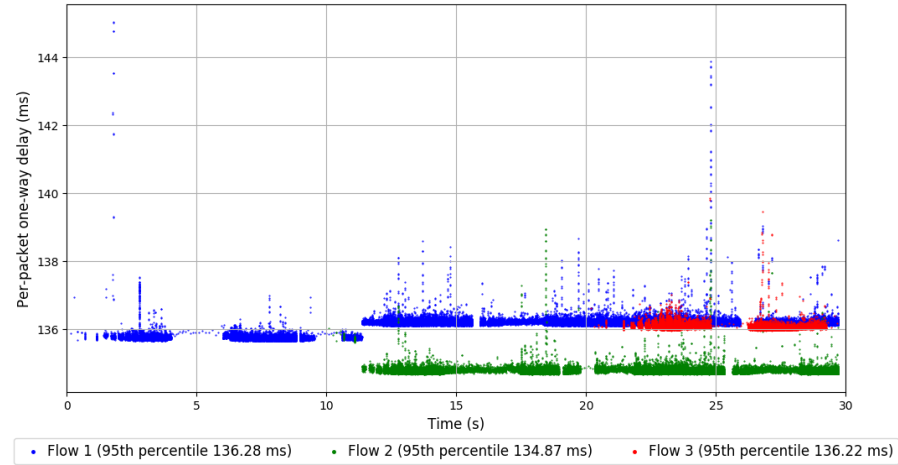
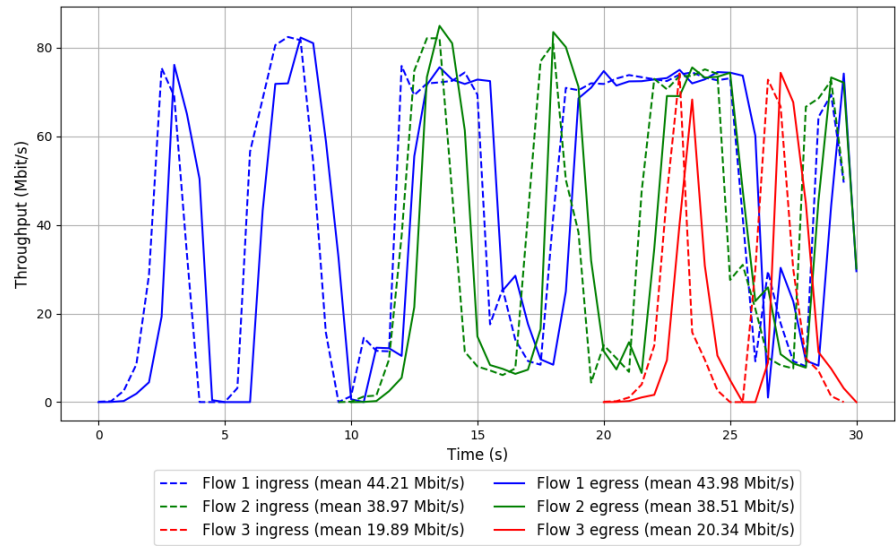
-- Flow 3:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 136.218 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

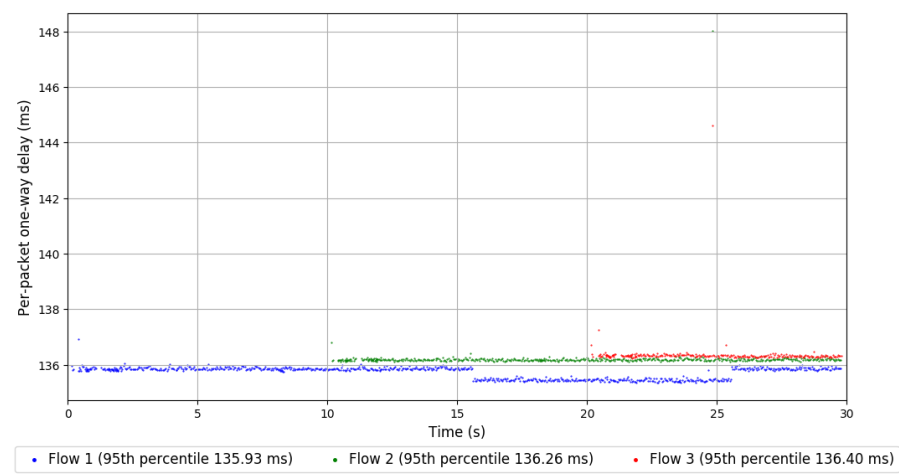
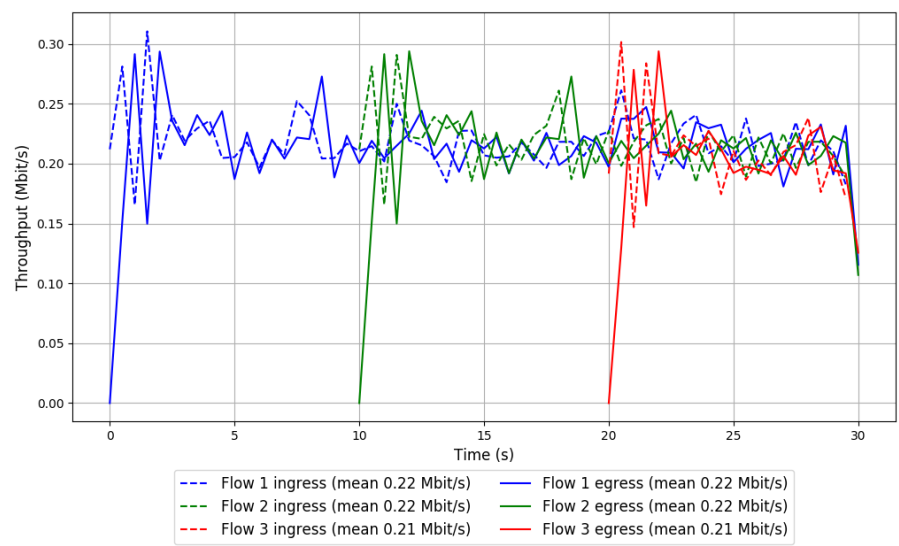


```
Run 1: Statistics of SCReAM

Start at: 2018-07-19 17:24:22
End at: 2018-07-19 17:24:52
Local clock offset: -0.302 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-07-20 00:03:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.347 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.933 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.256 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.396 ms
Loss rate: 2.57%
```


Run 1: Report of SReAM — Data Link

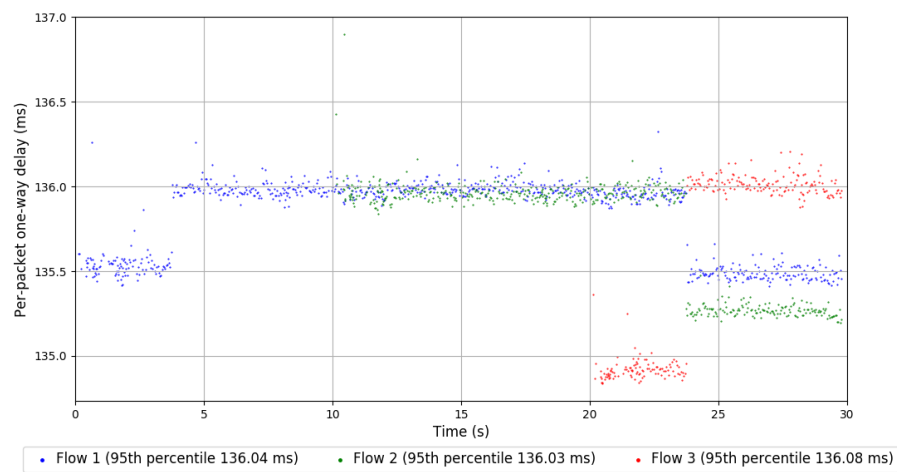
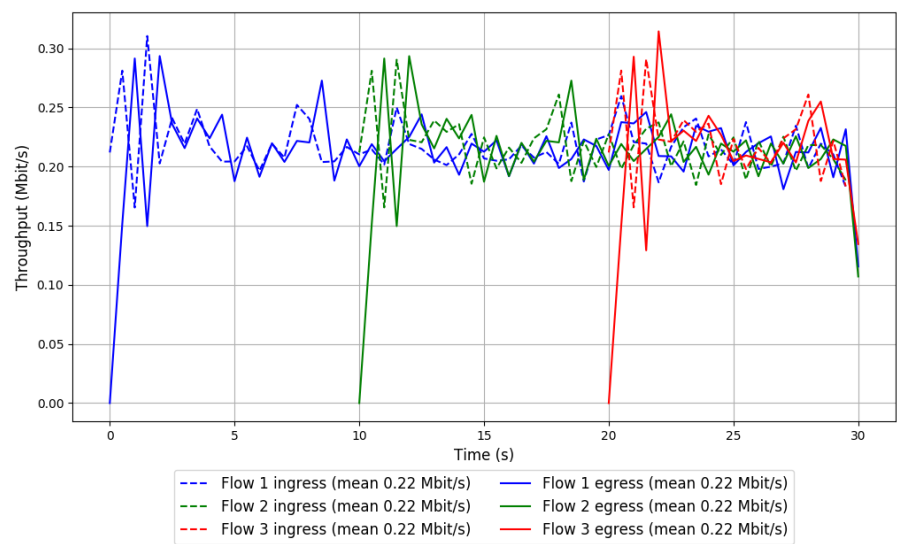


Run 2: Statistics of SReAM

Start at: 2018-07-19 17:51:04
End at: 2018-07-19 17:51:34
Local clock offset: -0.246 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-07-20 00:03:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.047 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.045 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.027 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.082 ms
Loss rate: 2.59%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-19 18:17:56

End at: 2018-07-19 18:18:26

Local clock offset: -0.104 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.737 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.767 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.806 ms

Loss rate: 1.43%

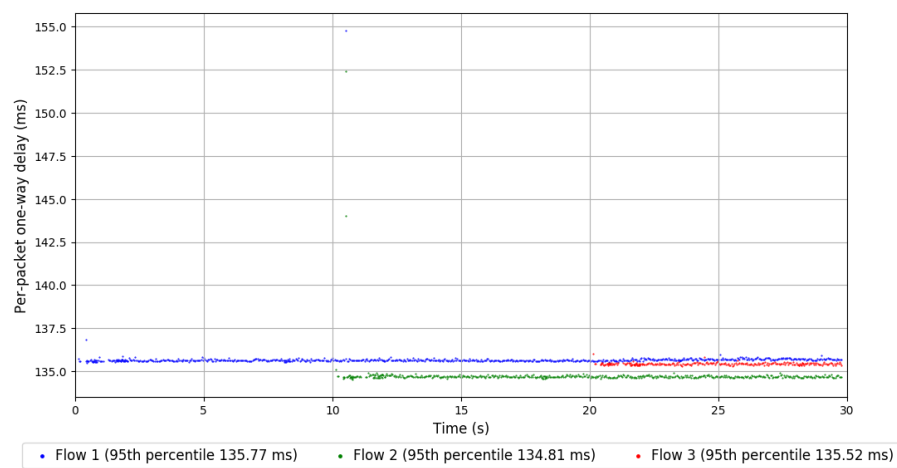
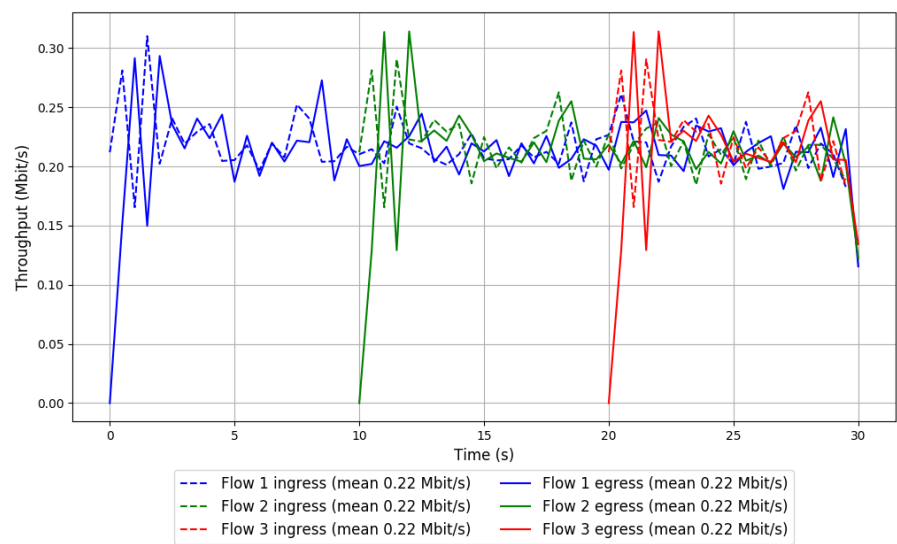
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.520 ms

Loss rate: 2.59%

Run 3: Report of SReAM — Data Link

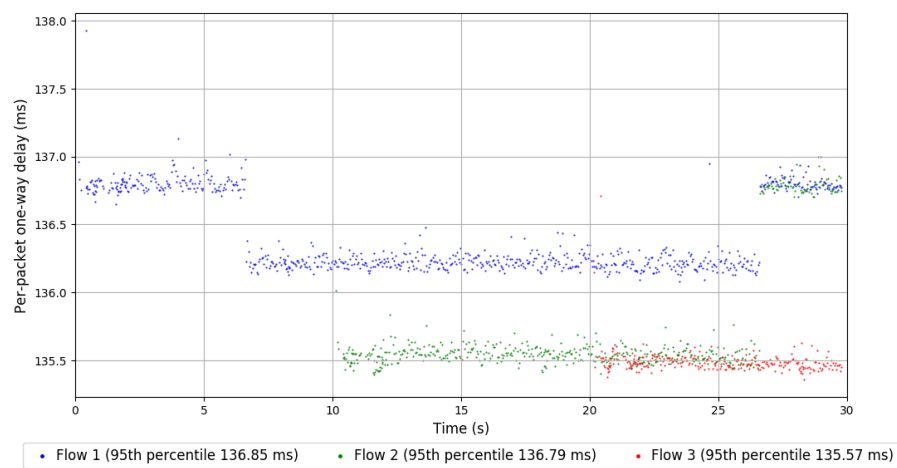
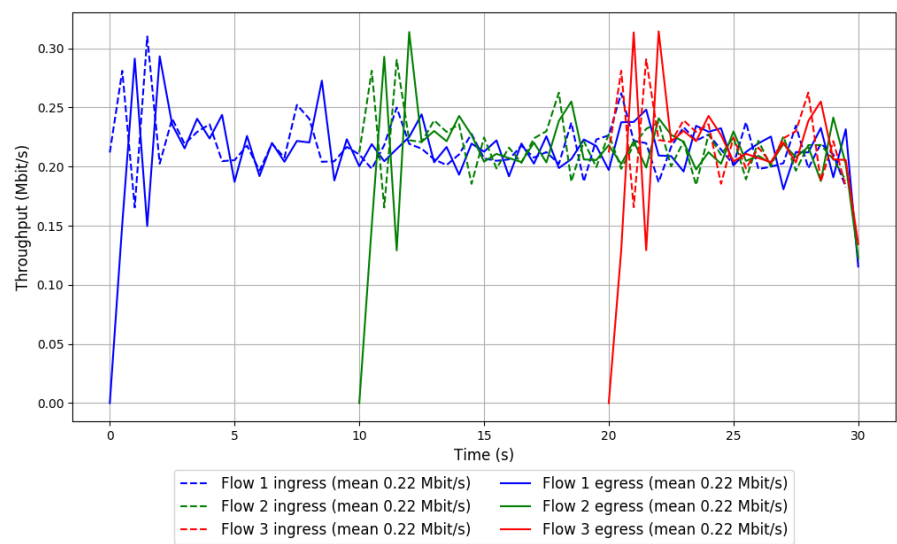


Run 4: Statistics of SReAM

Start at: 2018-07-19 18:45:11
End at: 2018-07-19 18:45:41
Local clock offset: 0.085 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-07-20 00:03:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.827 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.854 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.789 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.573 ms
Loss rate: 2.59%

Run 4: Report of SReAM — Data Link

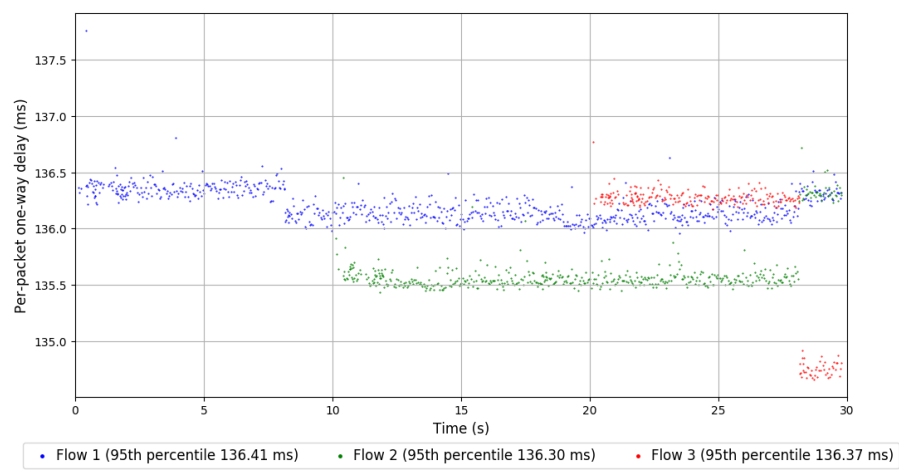
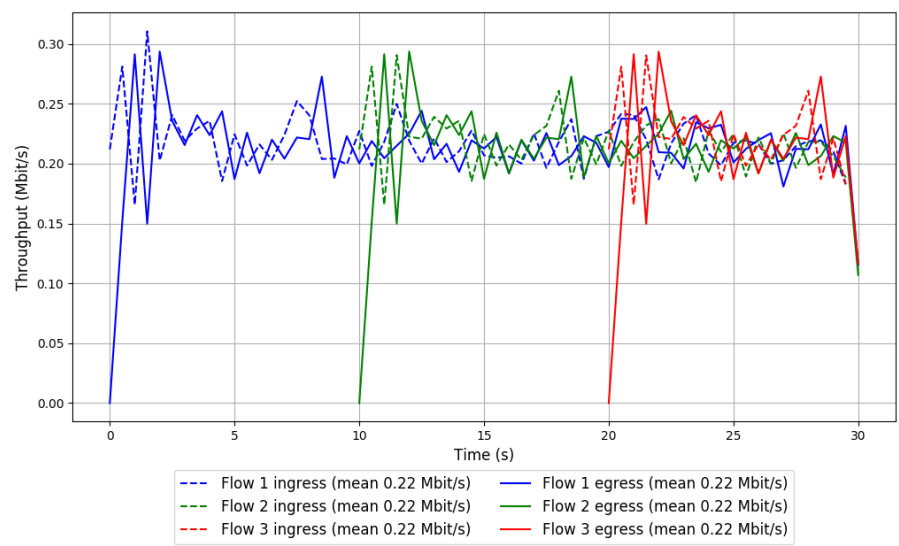


Run 5: Statistics of SReAM

Start at: 2018-07-19 19:12:10
End at: 2018-07-19 19:12:40
Local clock offset: -0.019 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-07-20 00:03:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.393 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.412 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.301 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.368 ms
Loss rate: 2.59%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-19 19:39:05

End at: 2018-07-19 19:39:35

Local clock offset: -0.081 ms

Remote clock offset: 4.273 ms

Below is generated by plot.py at 2018-07-20 00:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.407 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.225 ms

Loss rate: 1.43%

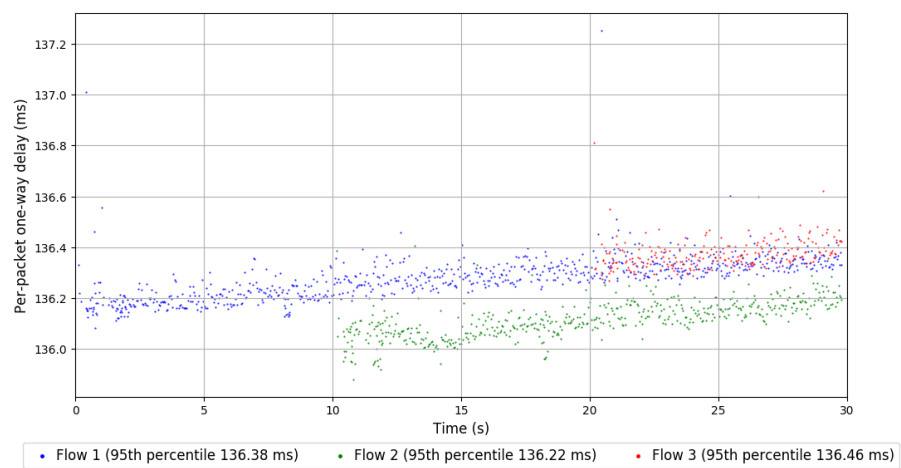
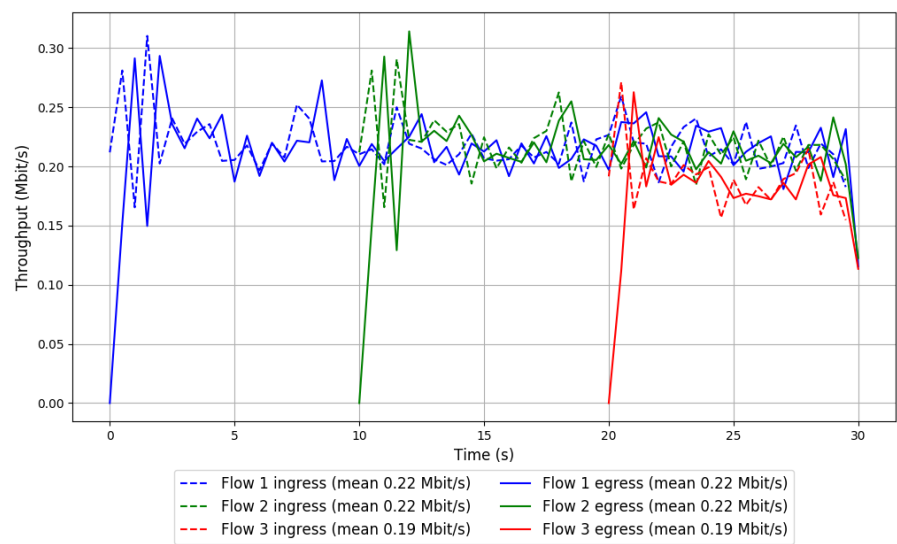
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 136.464 ms

Loss rate: 2.57%

Run 6: Report of SReAM — Data Link

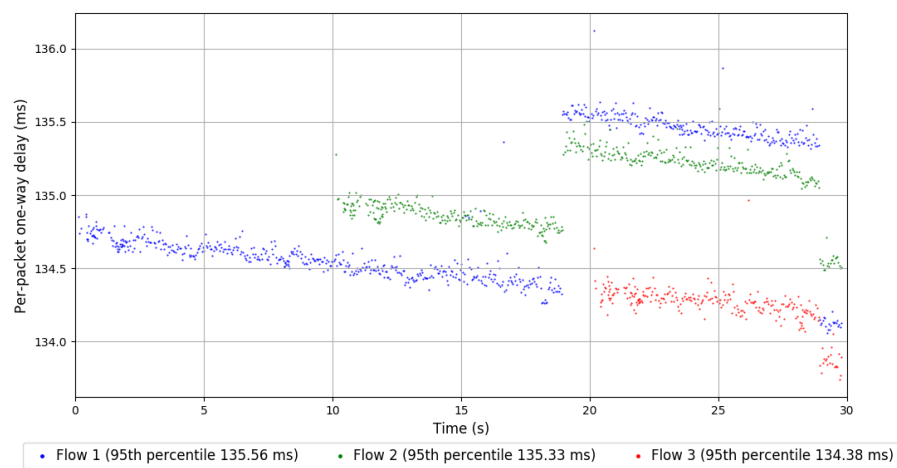
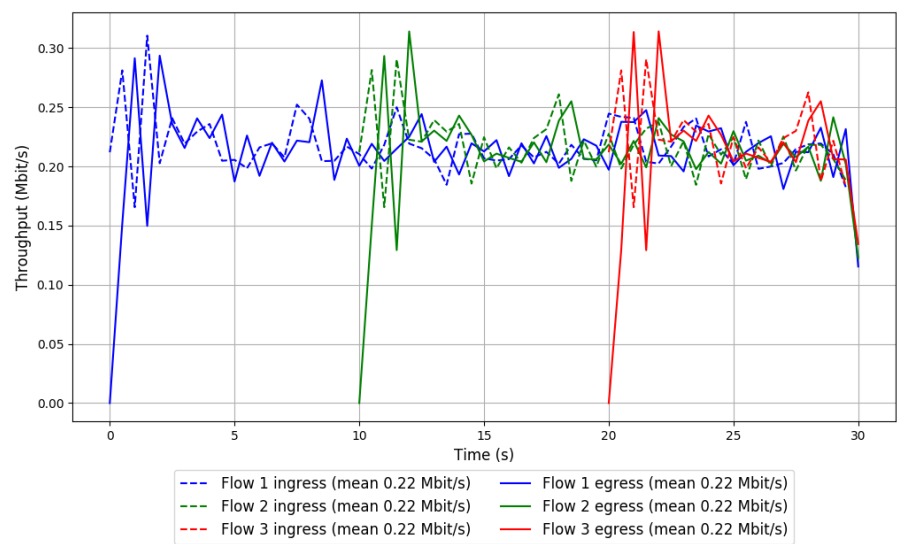


Run 7: Statistics of SReAM

Start at: 2018-07-19 20:06:19
End at: 2018-07-19 20:06:49
Local clock offset: -0.172 ms
Remote clock offset: 14.074 ms

Below is generated by plot.py at 2018-07-20 00:03:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 135.512 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.555 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.332 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.377 ms
Loss rate: 2.59%

Run 7: Report of SReAM — Data Link

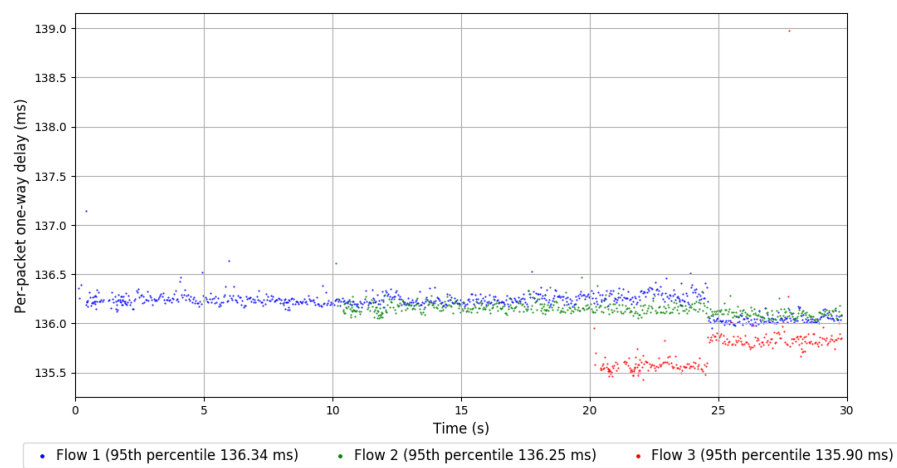
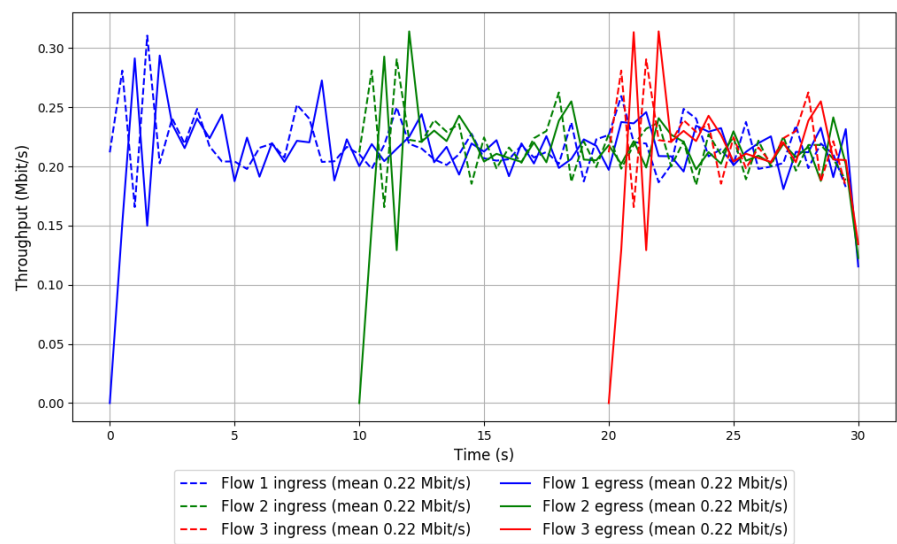


Run 8: Statistics of SReAM

Start at: 2018-07-19 20:33:33
End at: 2018-07-19 20:34:03
Local clock offset: -0.183 ms
Remote clock offset: 7.82 ms

Below is generated by plot.py at 2018-07-20 00:03:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.316 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.341 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.246 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.901 ms
Loss rate: 2.59%

Run 8: Report of SCSReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-19 21:00:19

End at: 2018-07-19 21:00:49

Local clock offset: -0.289 ms

Remote clock offset: 2.737 ms

Below is generated by plot.py at 2018-07-20 00:03:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.891 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.655 ms

Loss rate: 1.43%

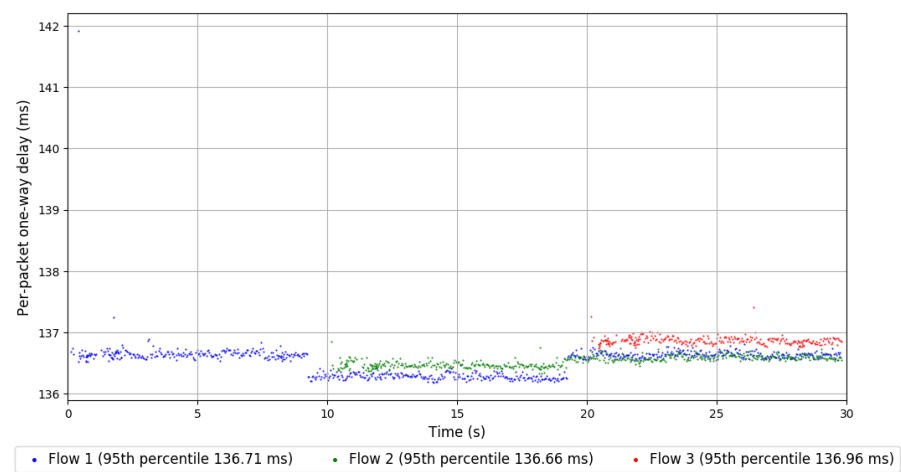
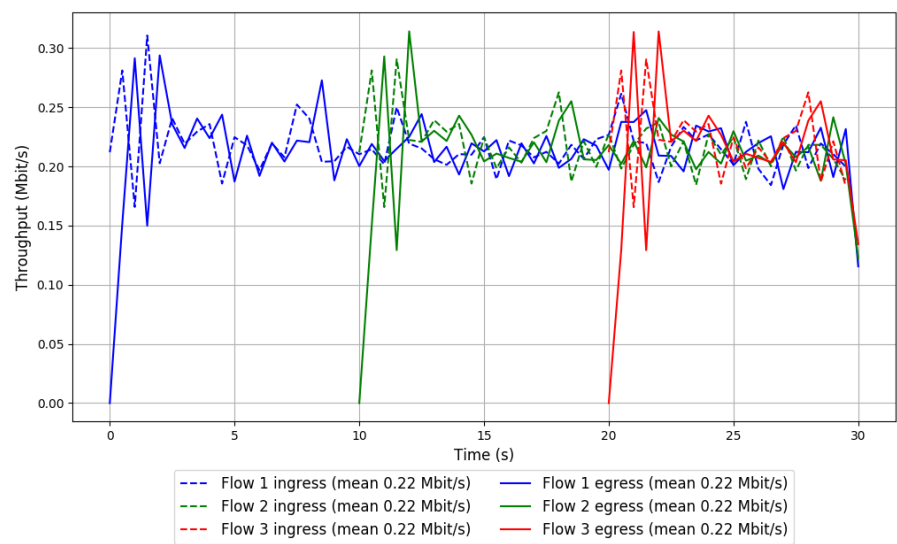
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.962 ms

Loss rate: 2.59%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-19 21:27:11

End at: 2018-07-19 21:27:41

Local clock offset: 0.113 ms

Remote clock offset: 0.524 ms

Below is generated by plot.py at 2018-07-20 00:03:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.629 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.656 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.172 ms

Loss rate: 1.43%

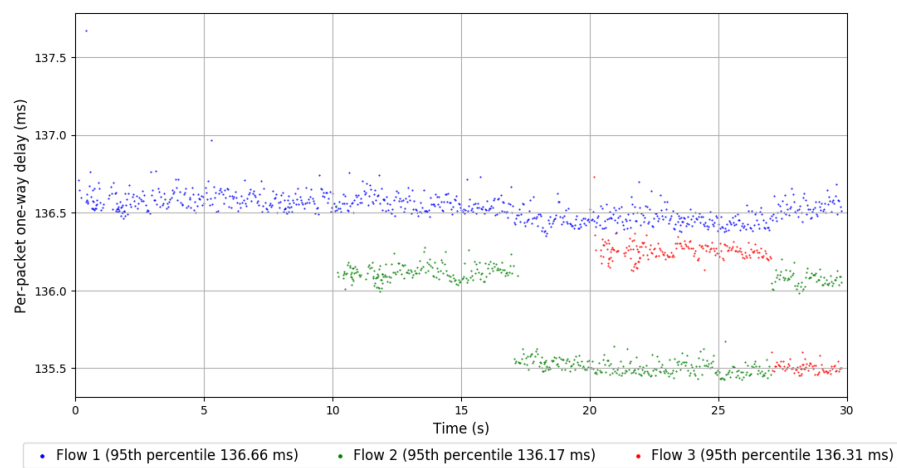
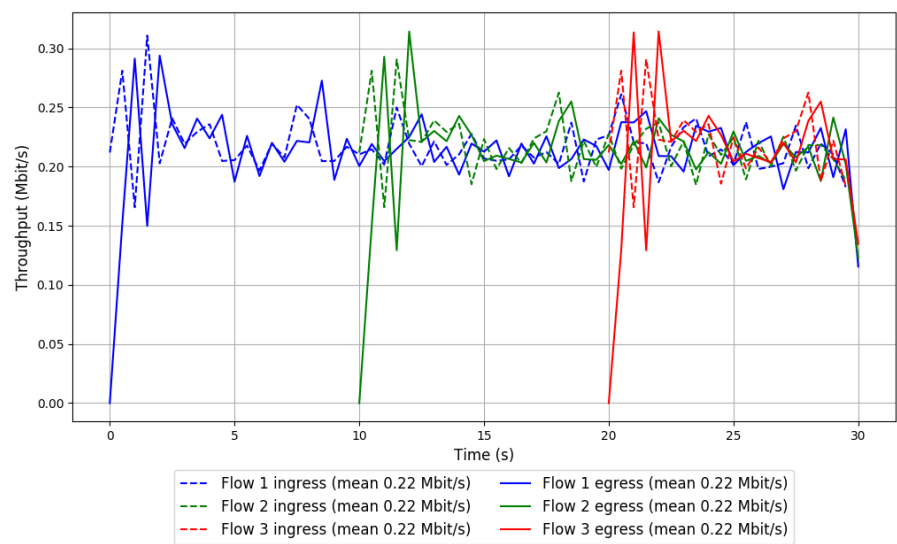
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 2.59%

Run 10: Report of SReAM — Data Link

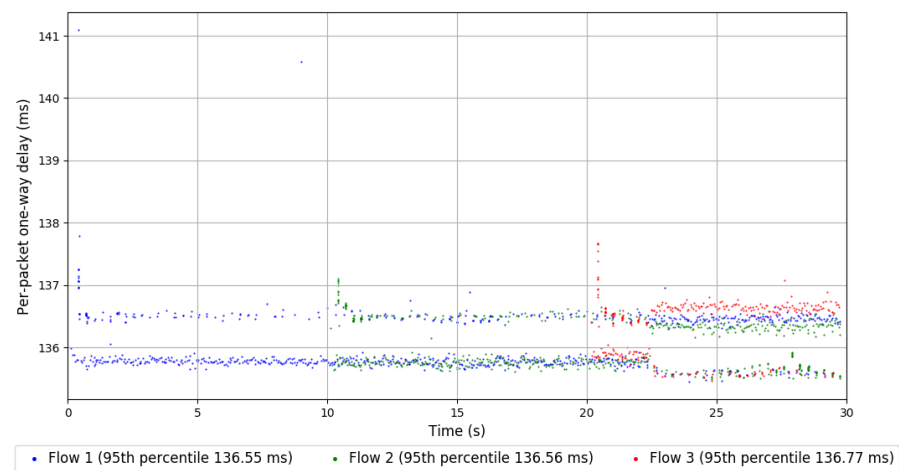
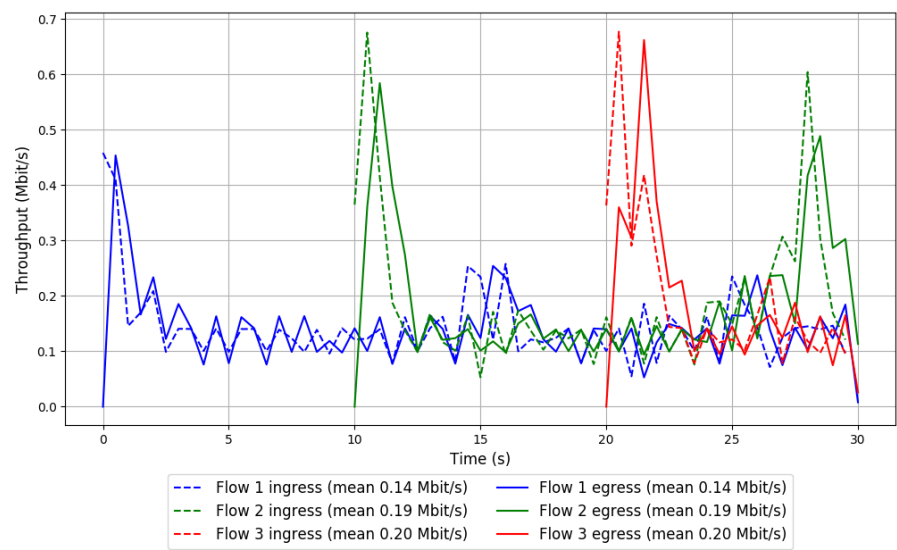


Run 1: Statistics of Sprout

Start at: 2018-07-19 17:28:25
End at: 2018-07-19 17:28:55
Local clock offset: -0.152 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-07-20 00:03:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.672 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.546 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.563 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.770 ms
Loss rate: 2.34%

Run 1: Report of Sprout — Data Link

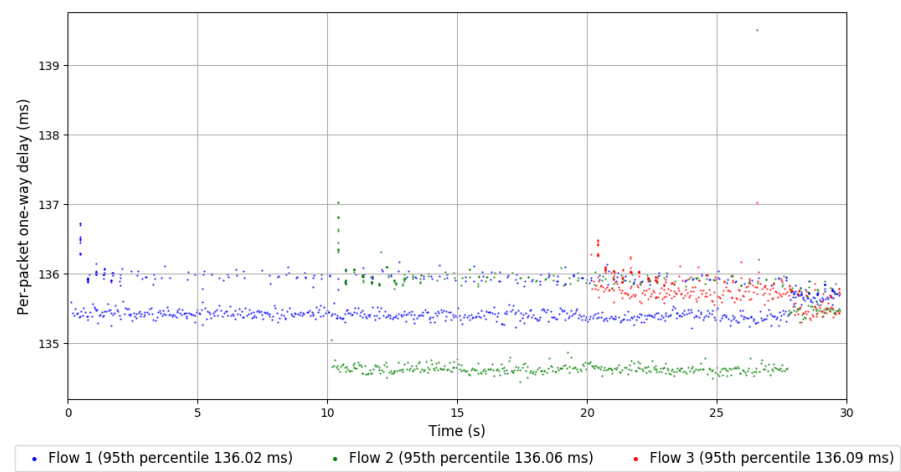
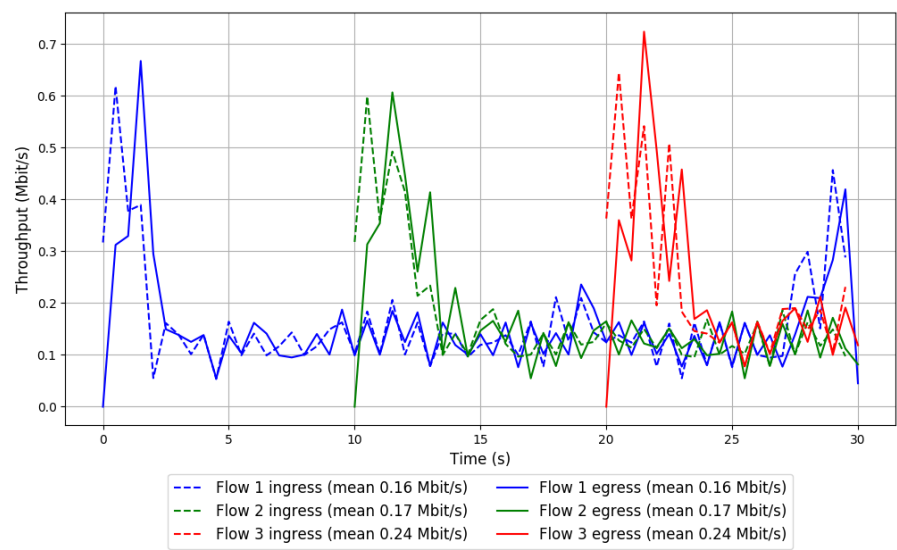


Run 2: Statistics of Sprout

Start at: 2018-07-19 17:55:10
End at: 2018-07-19 17:55:40
Local clock offset: -0.117 ms
Remote clock offset: 0.299 ms

```
# Below is generated by plot.py at 2018-07-20 00:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.056 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.022 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.058 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.093 ms
Loss rate: 2.46%
```

Run 2: Report of Sprout — Data Link

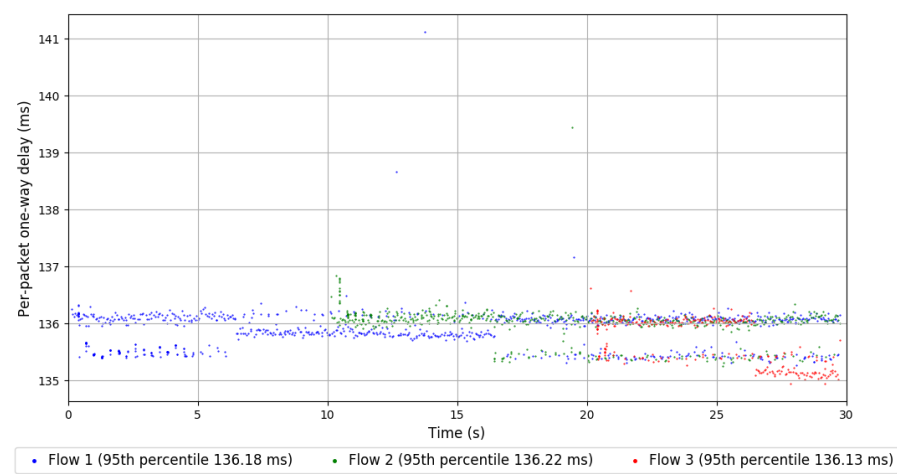
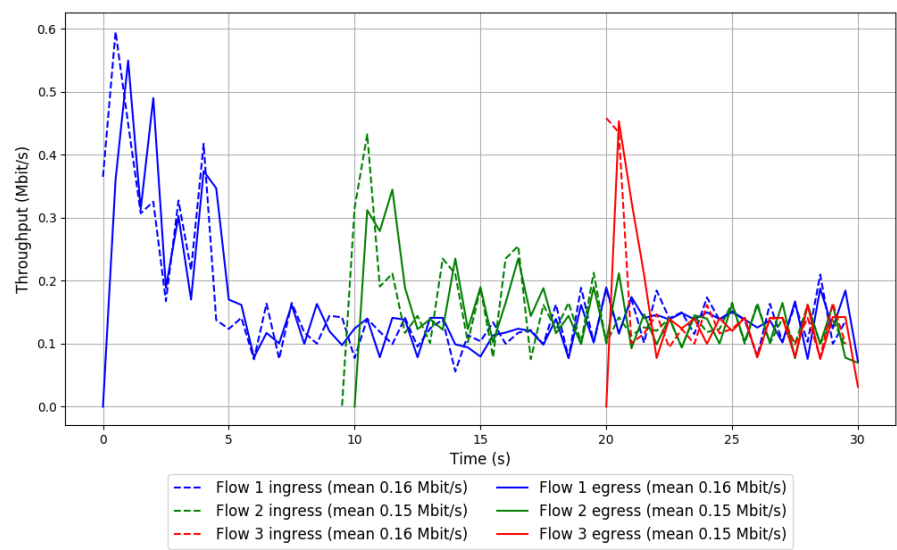


Run 3: Statistics of Sprout

Start at: 2018-07-19 18:22:01
End at: 2018-07-19 18:22:31
Local clock offset: -0.01 ms
Remote clock offset: -0.099 ms

```
# Below is generated by plot.py at 2018-07-20 00:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 136.199 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.183 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.216 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.129 ms
Loss rate: 3.11%
```


Run 3: Report of Sprout — Data Link

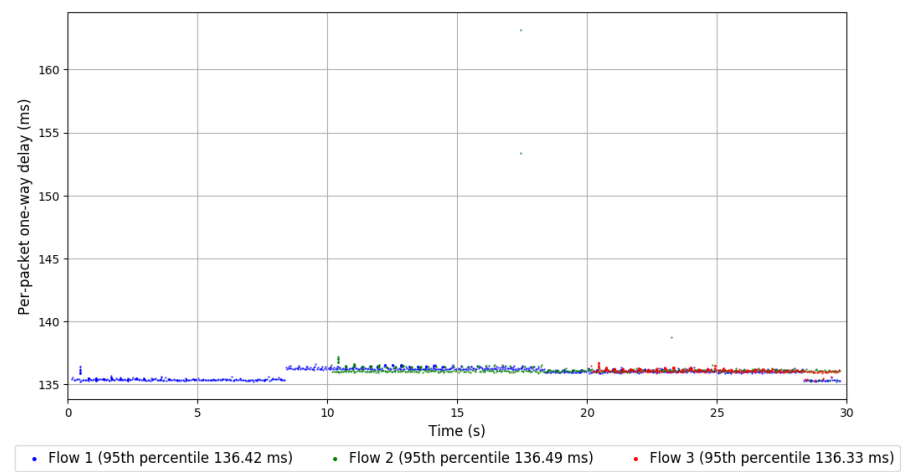
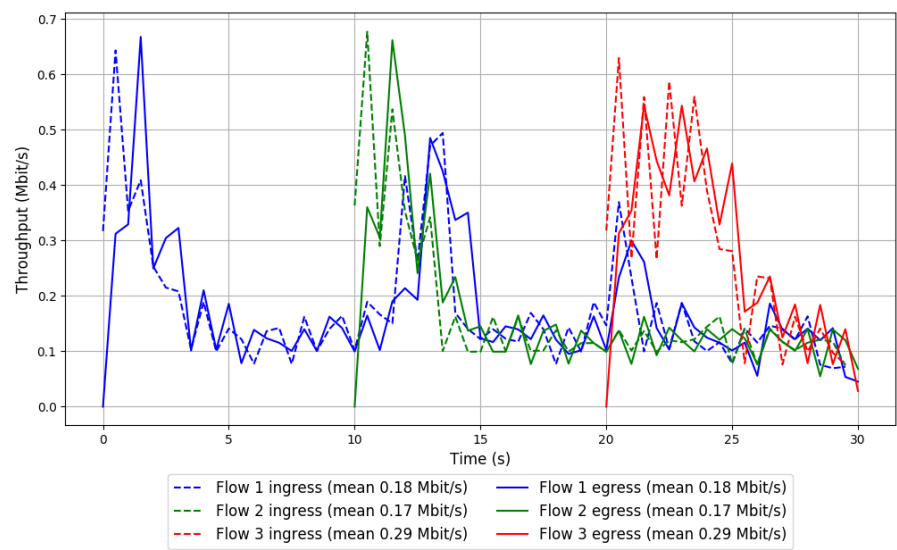


Run 4: Statistics of Sprout

Start at: 2018-07-19 18:49:09
End at: 2018-07-19 18:49:39
Local clock offset: -0.091 ms
Remote clock offset: -0.106 ms

```
# Below is generated by plot.py at 2018-07-20 00:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.432 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.420 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.494 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 136.326 ms
Loss rate: 1.27%
```

Run 4: Report of Sprout — Data Link

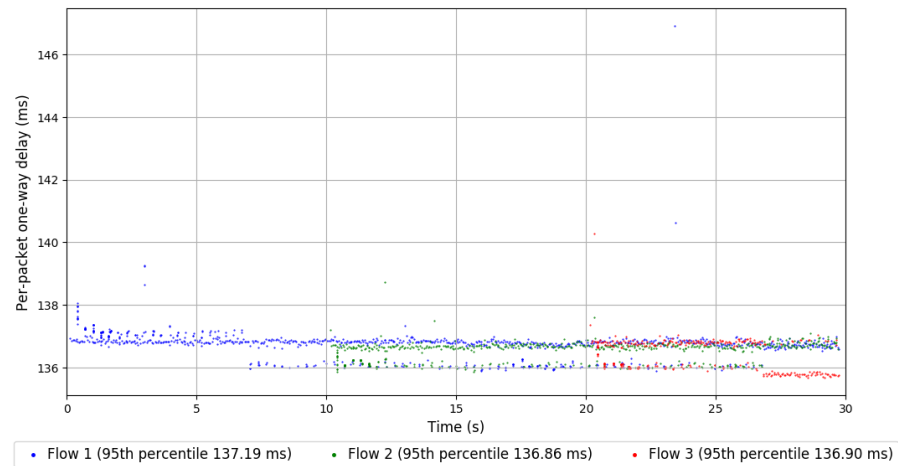
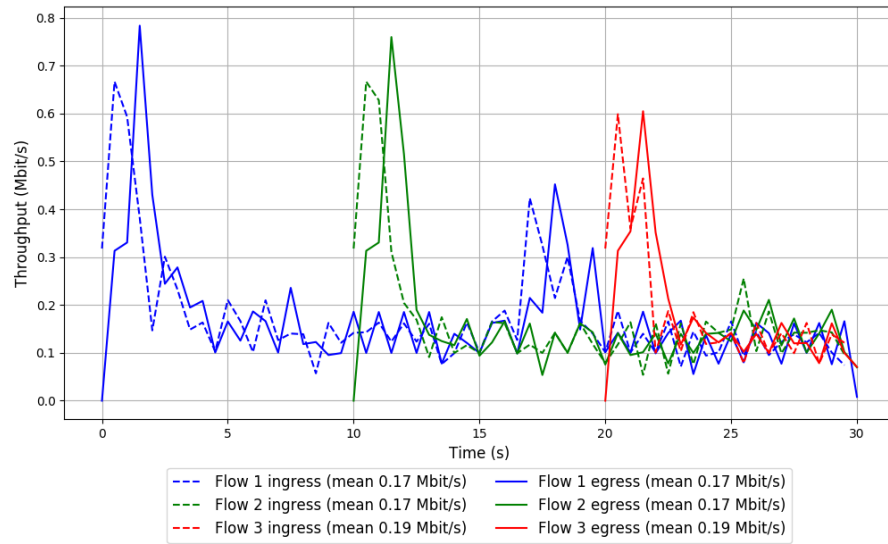


Run 5: Statistics of Sprout

Start at: 2018-07-19 19:16:11
End at: 2018-07-19 19:16:41
Local clock offset: 0.242 ms
Remote clock offset: -0.476 ms

Below is generated by plot.py at 2018-07-20 00:03:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.119 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 137.189 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.860 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.898 ms
Loss rate: 2.49%

Run 5: Report of Sprout — Data Link

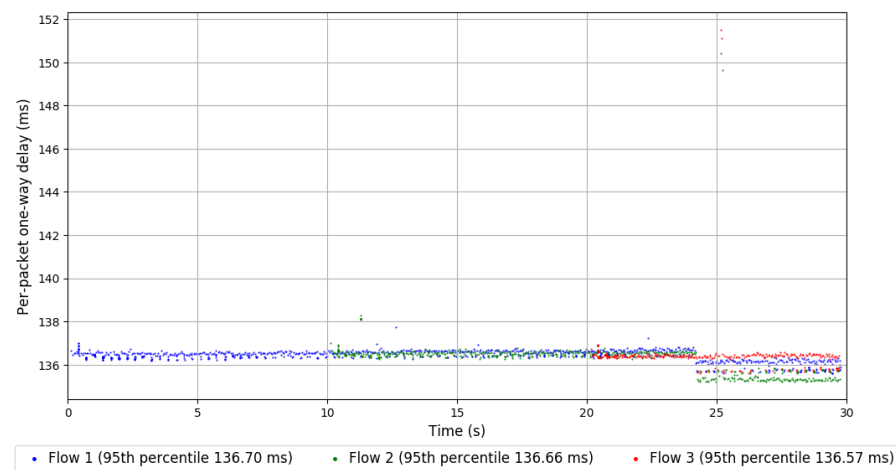
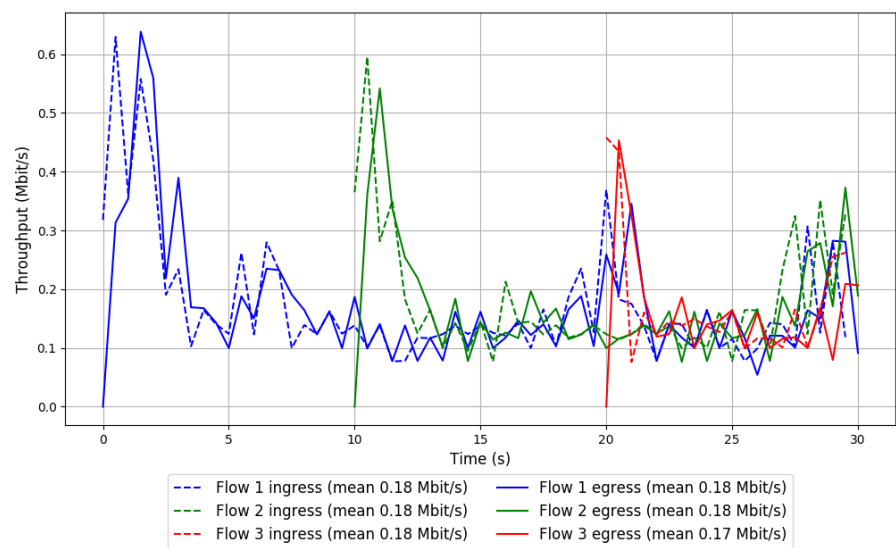


Run 6: Statistics of Sprout

Start at: 2018-07-19 19:43:04
End at: 2018-07-19 19:43:34
Local clock offset: -0.134 ms
Remote clock offset: 6.049 ms

```
# Below is generated by plot.py at 2018-07-20 00:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.688 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.696 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.663 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.569 ms
Loss rate: 5.43%
```

Run 6: Report of Sprout — Data Link

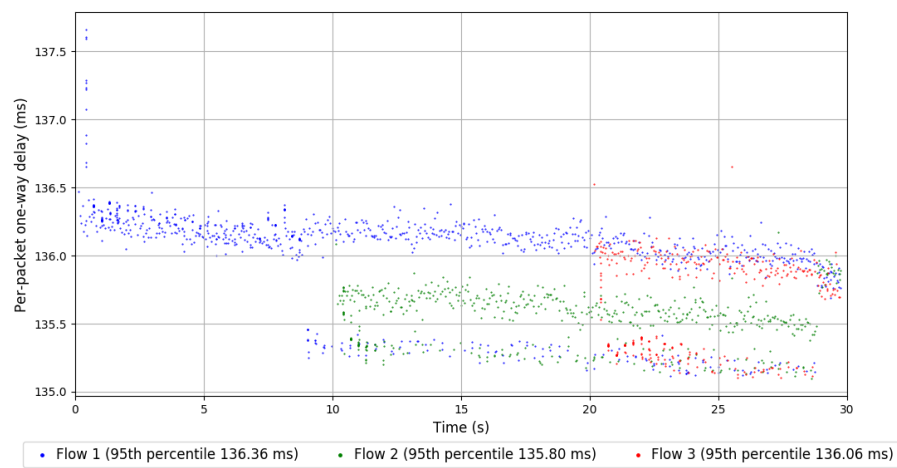
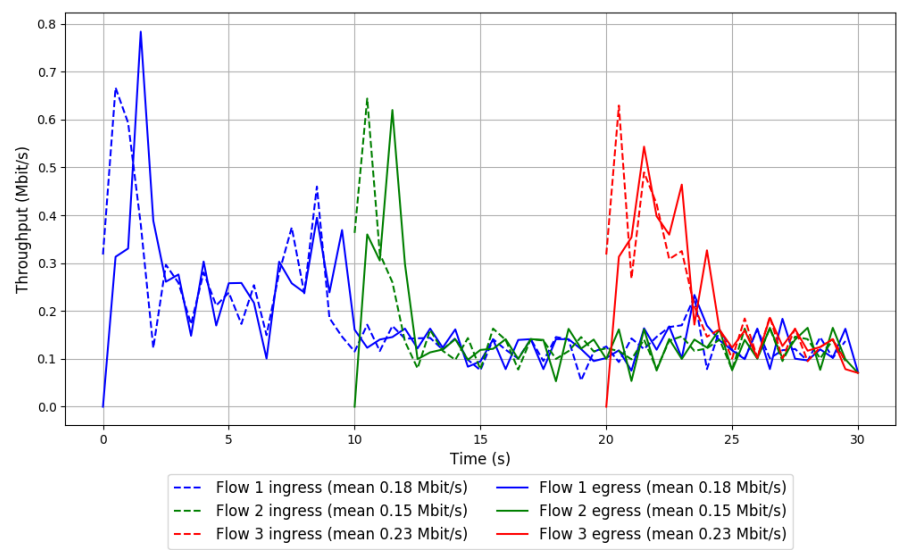


Run 7: Statistics of Sprout

Start at: 2018-07-19 20:10:19
End at: 2018-07-19 20:10:49
Local clock offset: -0.127 ms
Remote clock offset: 9.74 ms

Below is generated by plot.py at 2018-07-20 00:03:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.302 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.358 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.801 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.060 ms
Loss rate: 2.02%

Run 7: Report of Sprout — Data Link

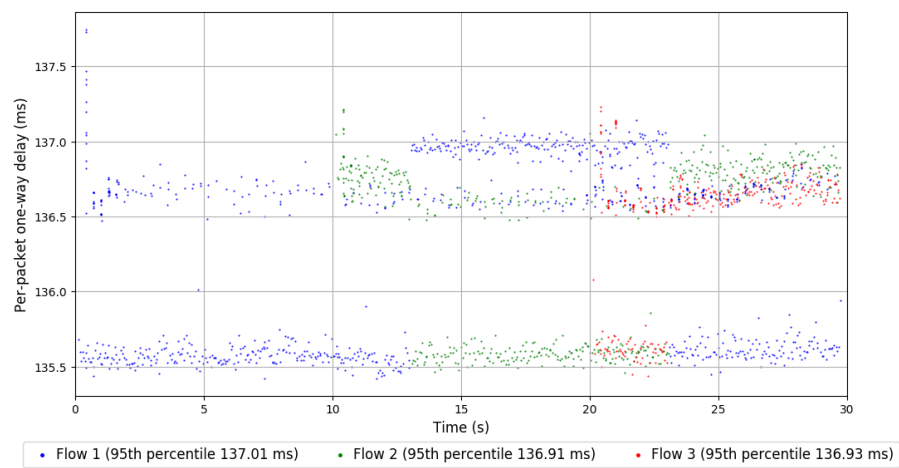
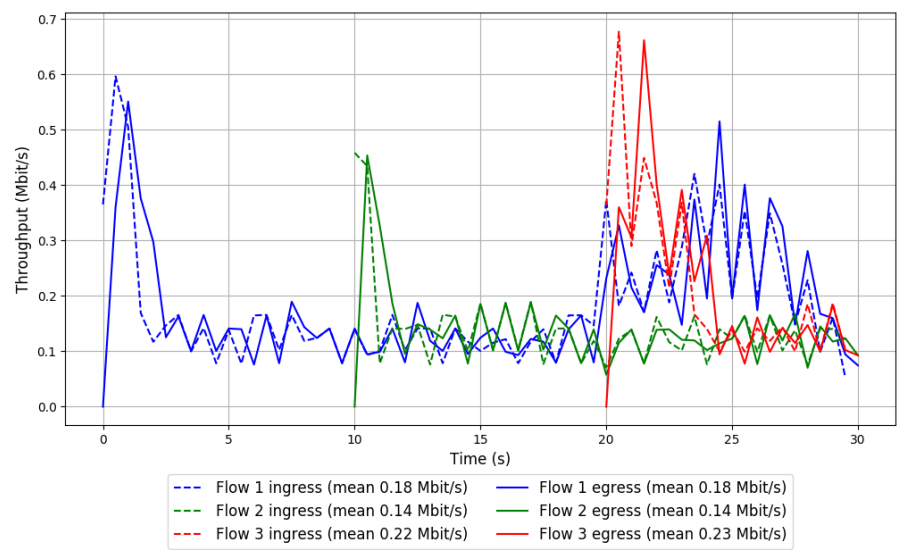


Run 8: Statistics of Sprout

Start at: 2018-07-19 20:37:35
End at: 2018-07-19 20:38:05
Local clock offset: -0.171 ms
Remote clock offset: 7.853 ms

```
# Below is generated by plot.py at 2018-07-20 00:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.999 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.011 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.912 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.933 ms
Loss rate: 2.15%
```

Run 8: Report of Sprout — Data Link

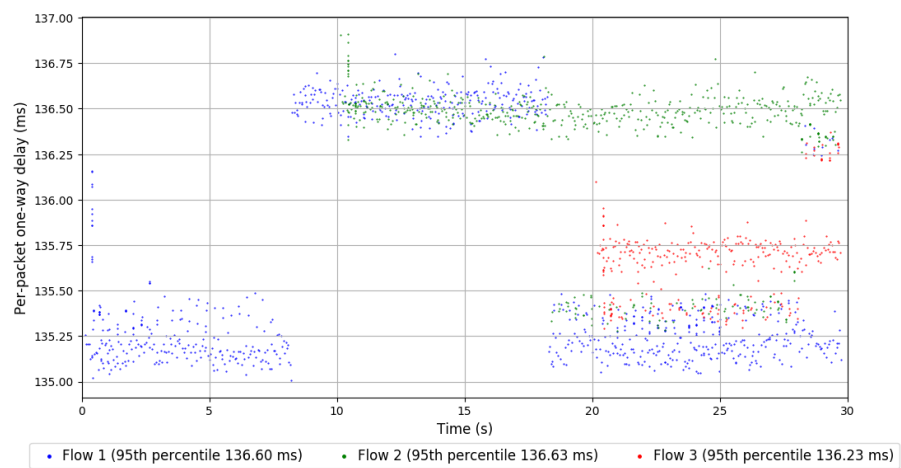
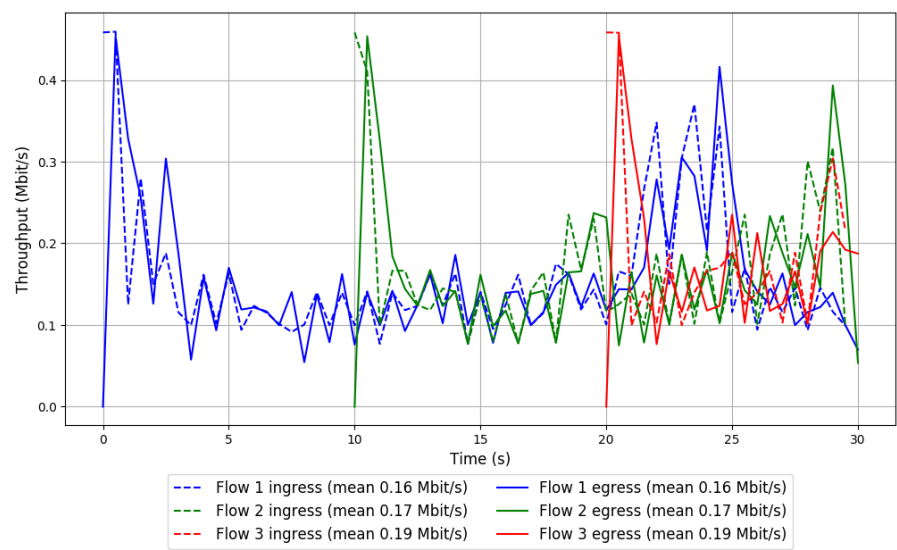


Run 9: Statistics of Sprout

Start at: 2018-07-19 21:04:20
End at: 2018-07-19 21:04:50
Local clock offset: -0.041 ms
Remote clock offset: 3.32 ms

Below is generated by plot.py at 2018-07-20 00:03:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.598 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.597 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.629 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.232 ms
Loss rate: 4.40%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-19 21:31:11

End at: 2018-07-19 21:31:41

Local clock offset: 0.289 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-07-20 00:03:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 137.124 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 137.093 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 137.145 ms

Loss rate: 0.79%

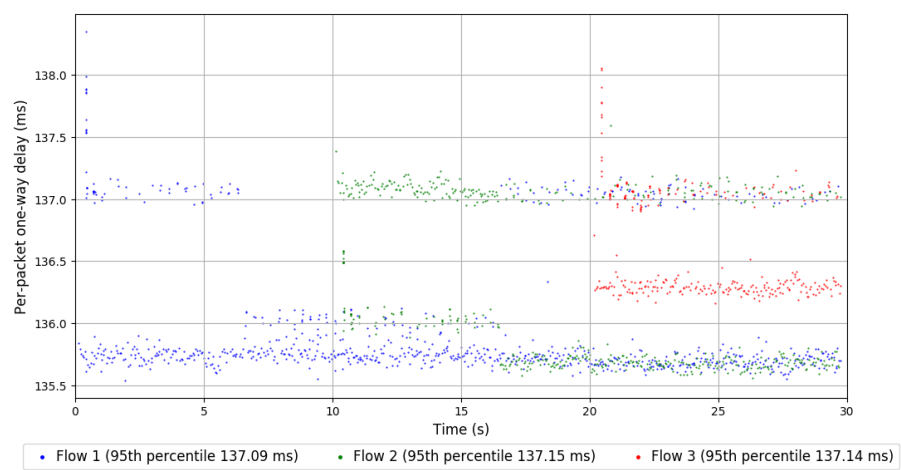
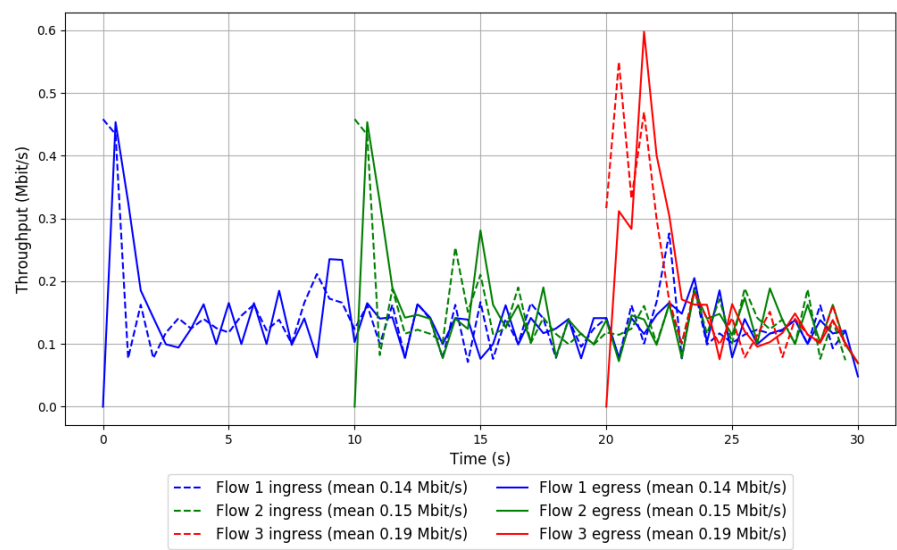
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 137.138 ms

Loss rate: 2.37%

Run 10: Report of Sprout — Data Link

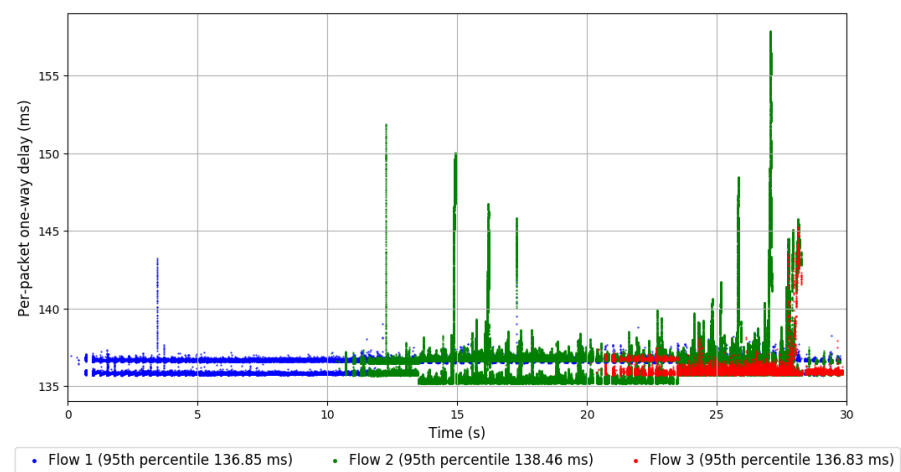
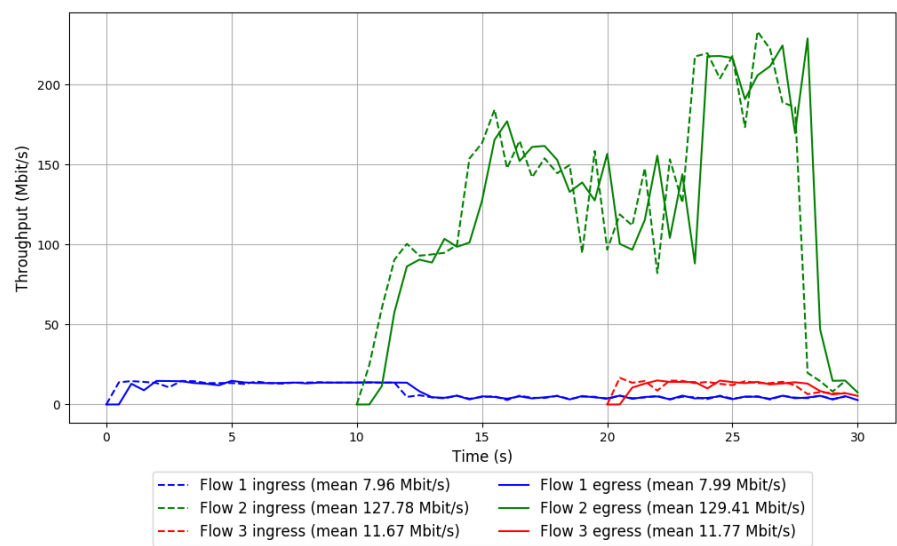


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-19 17:33:34
End at: 2018-07-19 17:34:04
Local clock offset: -0.169 ms
Remote clock offset: -0.476 ms

# Below is generated by plot.py at 2018-07-20 00:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 138.098 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 136.846 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 129.41 Mbit/s
95th percentile per-packet one-way delay: 138.456 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 136.831 ms
Loss rate: 1.85%
```


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

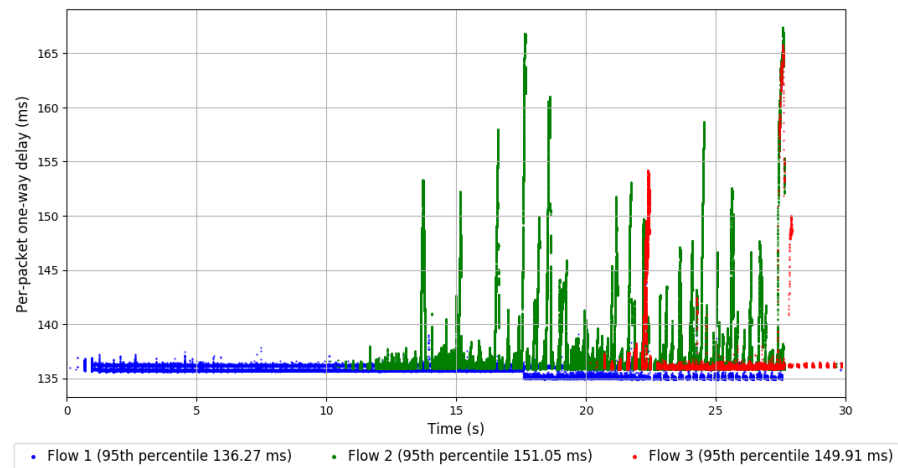
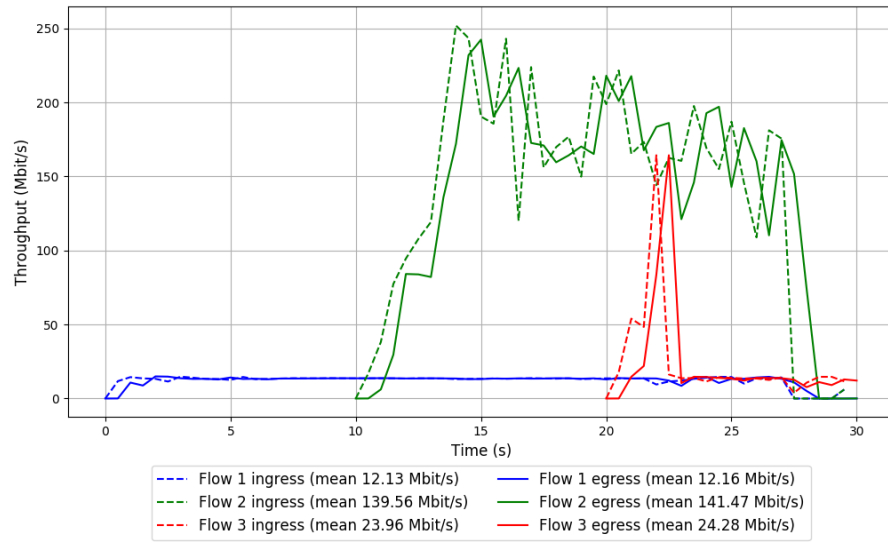


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-19 18:00:20
End at: 2018-07-19 18:00:50
Local clock offset: -0.085 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-07-20 00:03:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 112.90 Mbit/s
95th percentile per-packet one-way delay: 150.047 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 12.16 Mbit/s
95th percentile per-packet one-way delay: 136.274 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 141.47 Mbit/s
95th percentile per-packet one-way delay: 151.053 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 149.912 ms
Loss rate: 1.43%

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

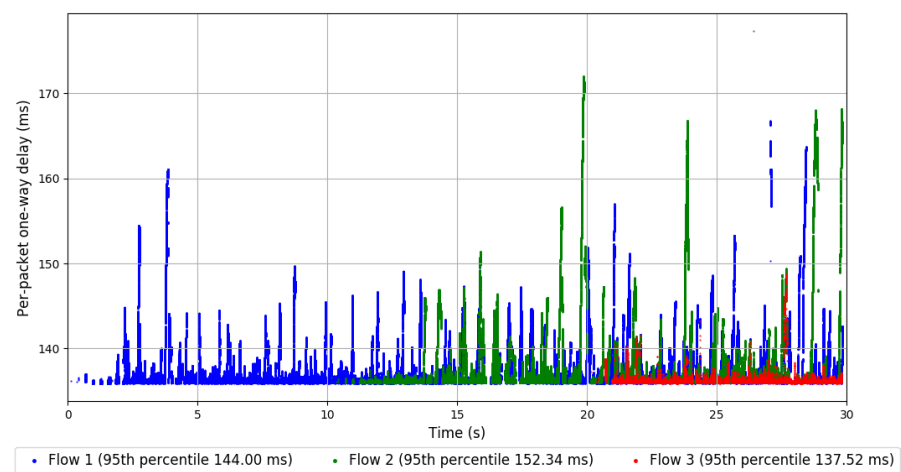
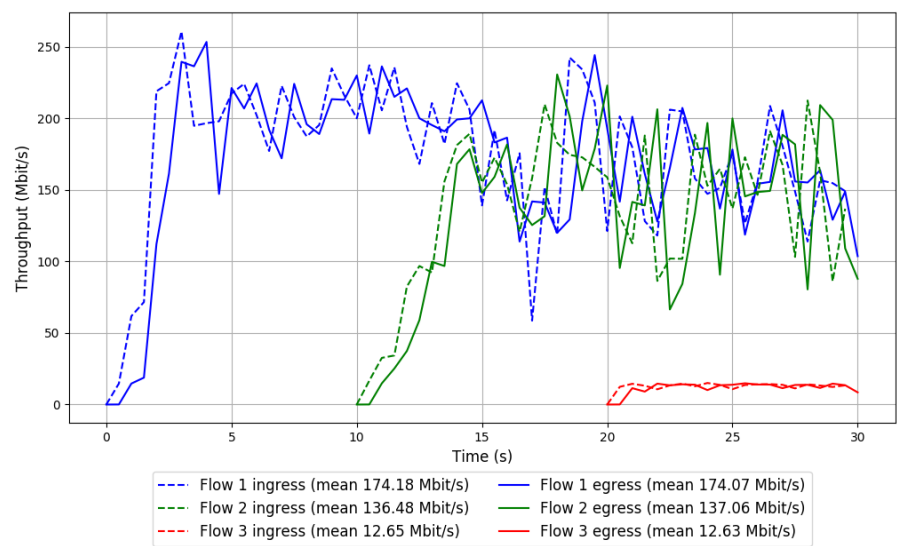


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-19 18:27:13
End at: 2018-07-19 18:27:43
Local clock offset: 0.025 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-07-20 00:09:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.04 Mbit/s
95th percentile per-packet one-way delay: 145.950 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 174.07 Mbit/s
95th percentile per-packet one-way delay: 143.996 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 137.06 Mbit/s
95th percentile per-packet one-way delay: 152.335 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 137.524 ms
Loss rate: 2.92%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-19 18:54:21

End at: 2018-07-19 18:54:51

Local clock offset: 0.028 ms

Remote clock offset: 0.244 ms

Below is generated by plot.py at 2018-07-20 00:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.74 Mbit/s

95th percentile per-packet one-way delay: 142.445 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 12.61 Mbit/s

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

Loss rate: 0.94%

-- Flow 2:

Average throughput: 160.84 Mbit/s

95th percentile per-packet one-way delay: 142.318 ms

Loss rate: 0.12%

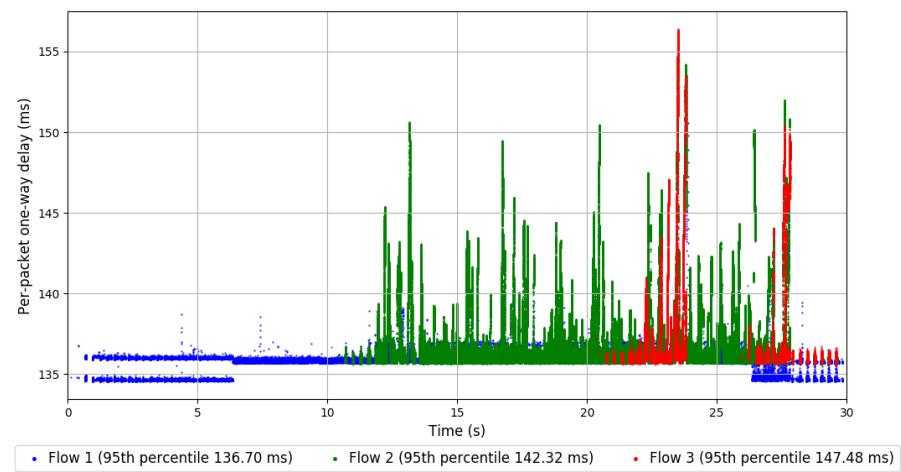
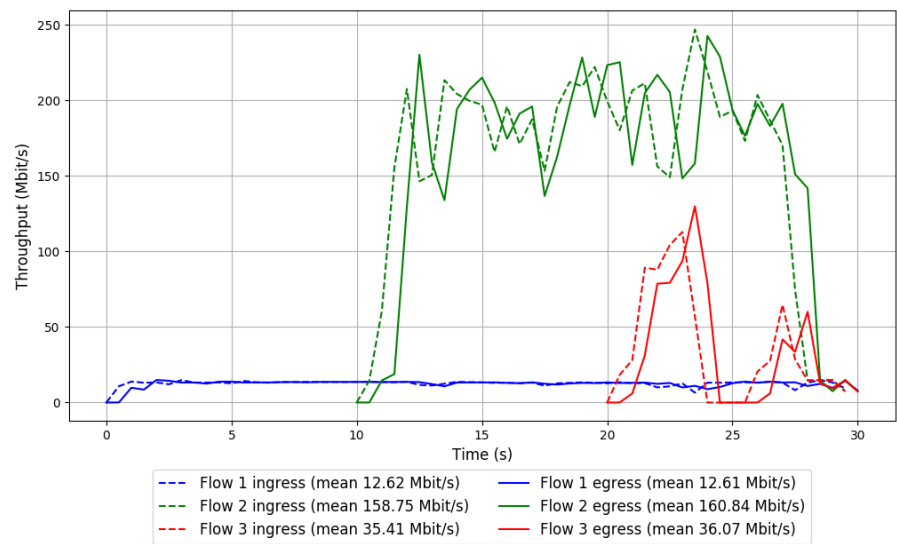
-- Flow 3:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 147.477 ms

Loss rate: 1.06%

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

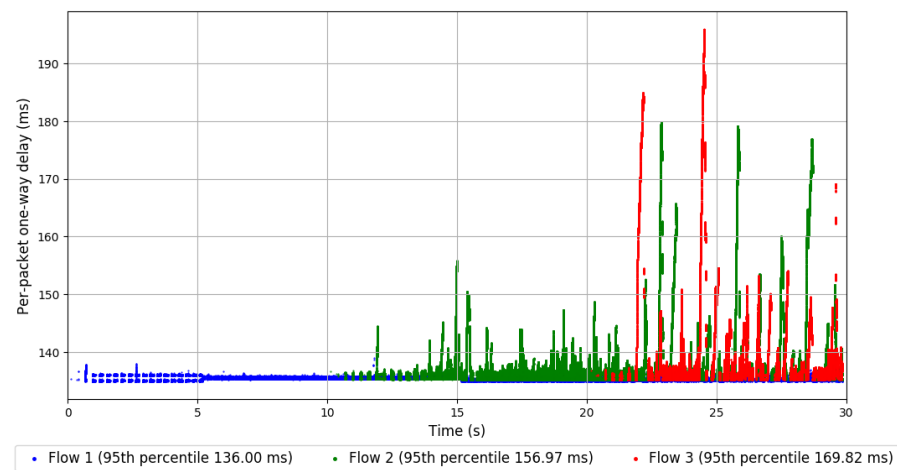
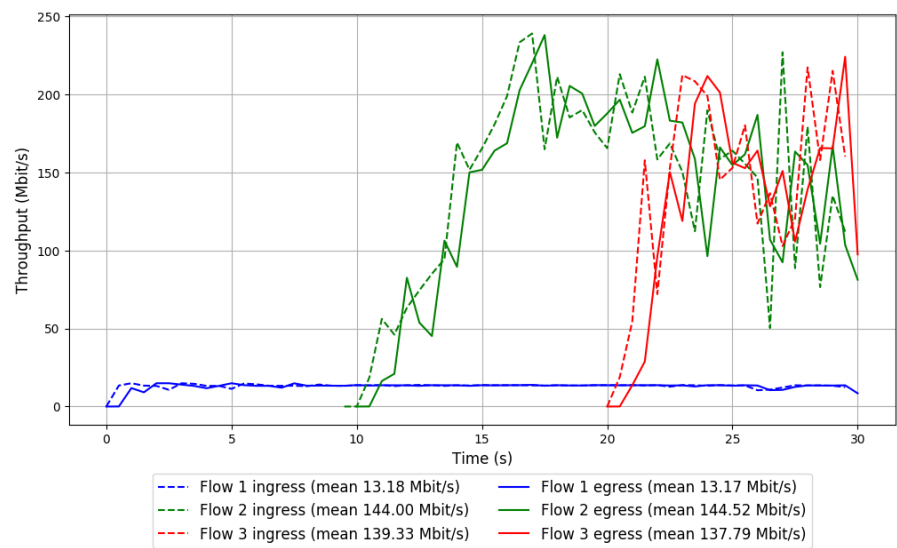


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-19 19:21:23
End at: 2018-07-19 19:21:53
Local clock offset: 0.018 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-07-20 00:09:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.89 Mbit/s
95th percentile per-packet one-way delay: 158.617 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 136.003 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 144.52 Mbit/s
95th percentile per-packet one-way delay: 156.971 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 137.79 Mbit/s
95th percentile per-packet one-way delay: 169.819 ms
Loss rate: 4.23%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-19 19:48:13

End at: 2018-07-19 19:48:43

Local clock offset: -0.138 ms

Remote clock offset: 8.779 ms

Below is generated by plot.py at 2018-07-20 00:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.40 Mbit/s

95th percentile per-packet one-way delay: 141.759 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 168.20 Mbit/s

95th percentile per-packet one-way delay: 141.632 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 139.255 ms

Loss rate: 0.22%

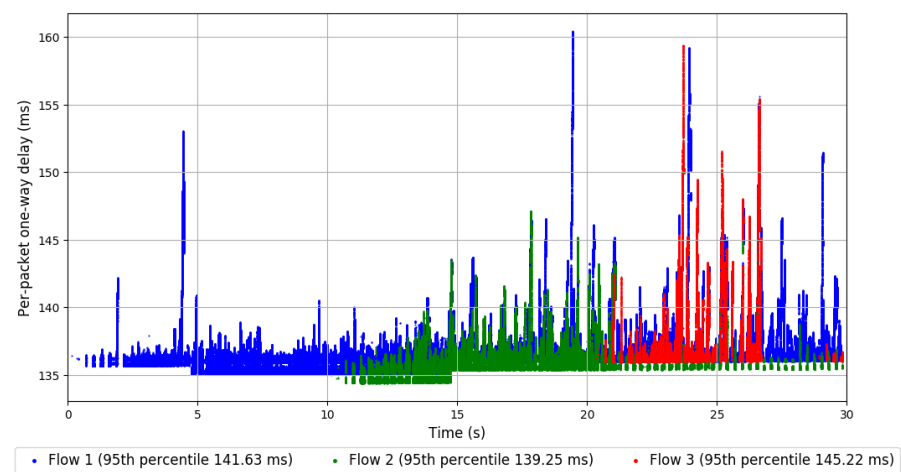
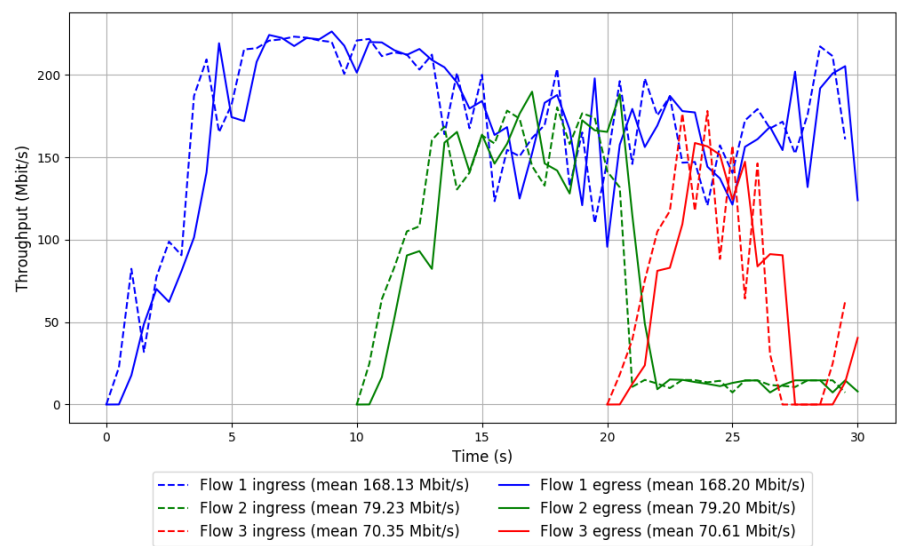
-- Flow 3:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 145.218 ms

Loss rate: 2.38%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-19 20:15:40

End at: 2018-07-19 20:16:10

Local clock offset: -0.118 ms

Remote clock offset: 7.493 ms

Below is generated by plot.py at 2018-07-20 00:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 195.03 Mbit/s

95th percentile per-packet one-way delay: 145.301 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 182.14 Mbit/s

95th percentile per-packet one-way delay: 145.711 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 136.237 ms

Loss rate: 1.36%

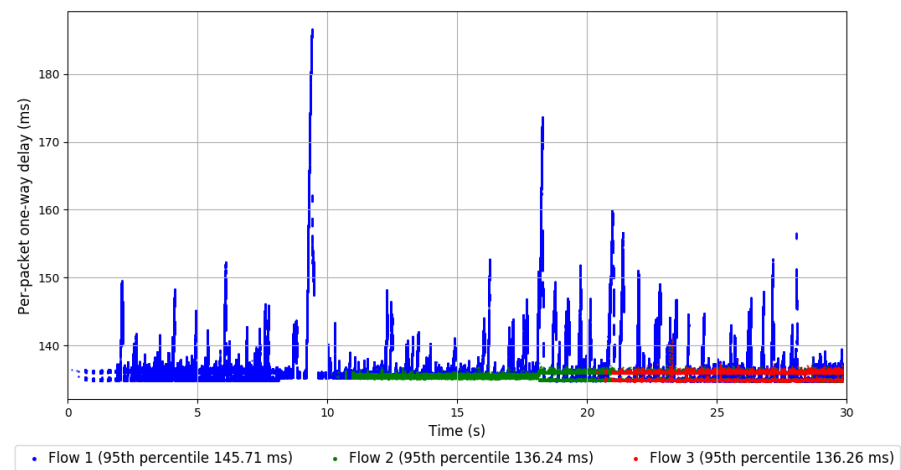
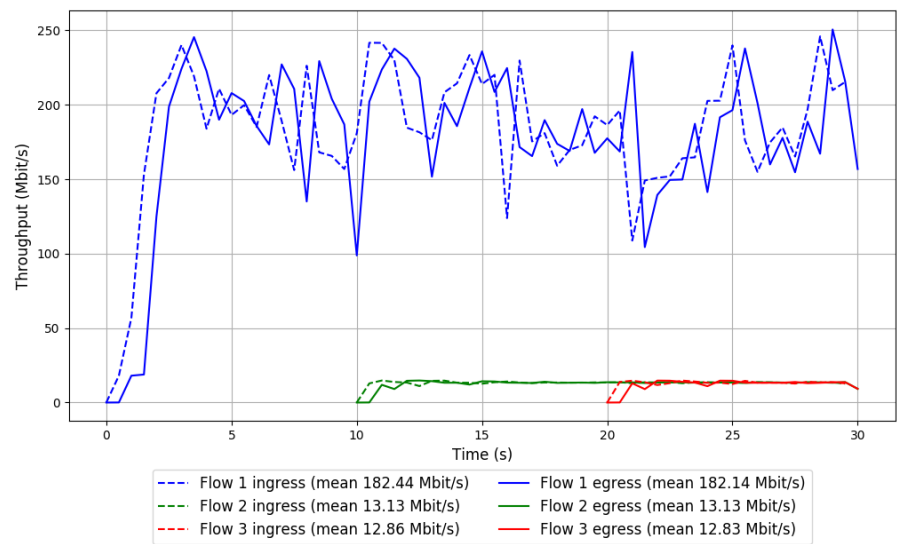
-- Flow 3:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 136.260 ms

Loss rate: 2.90%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-19 20:42:35

End at: 2018-07-19 20:43:05

Local clock offset: -0.087 ms

Remote clock offset: 6.194 ms

Below is generated by plot.py at 2018-07-20 00:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.55 Mbit/s

95th percentile per-packet one-way delay: 138.376 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 198.55 Mbit/s

95th percentile per-packet one-way delay: 138.578 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 135.882 ms

Loss rate: 1.40%

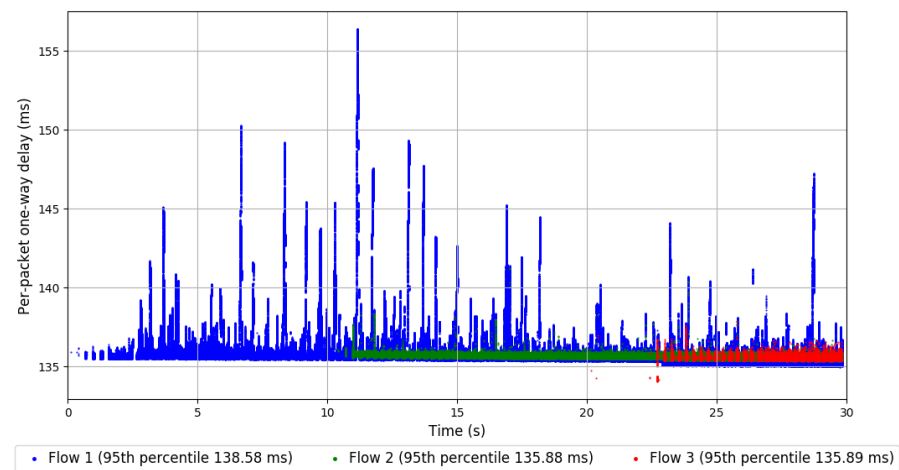
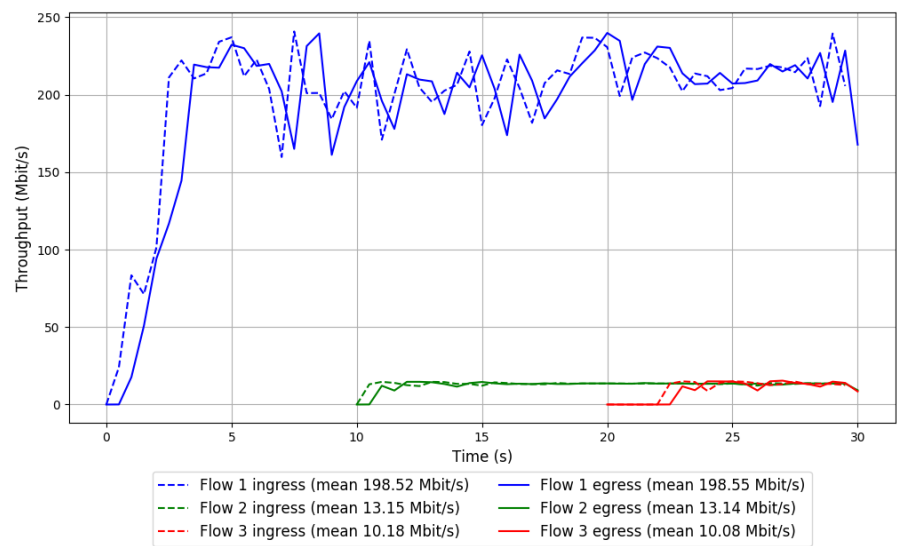
-- Flow 3:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 135.888 ms

Loss rate: 3.71%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-19 21:09:31

End at: 2018-07-19 21:10:01

Local clock offset: -0.025 ms

Remote clock offset: 4.058 ms

Below is generated by plot.py at 2018-07-20 00:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.94 Mbit/s

95th percentile per-packet one-way delay: 144.484 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.249 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 183.71 Mbit/s

95th percentile per-packet one-way delay: 142.150 ms

Loss rate: 1.10%

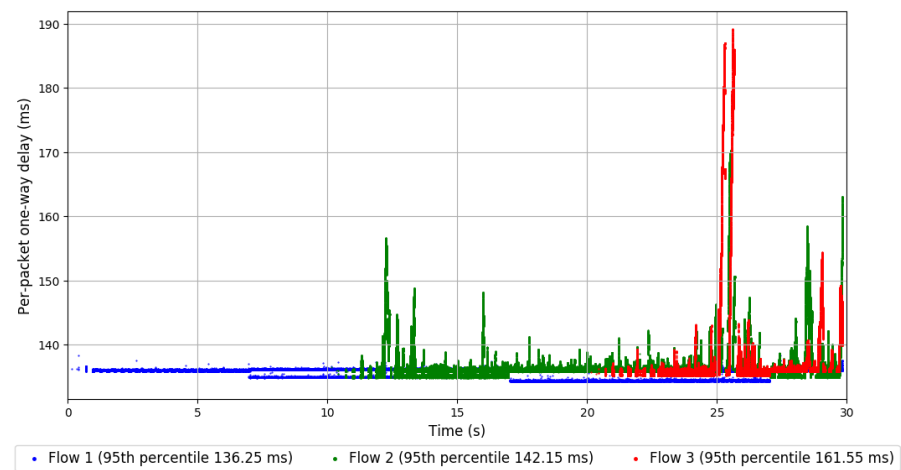
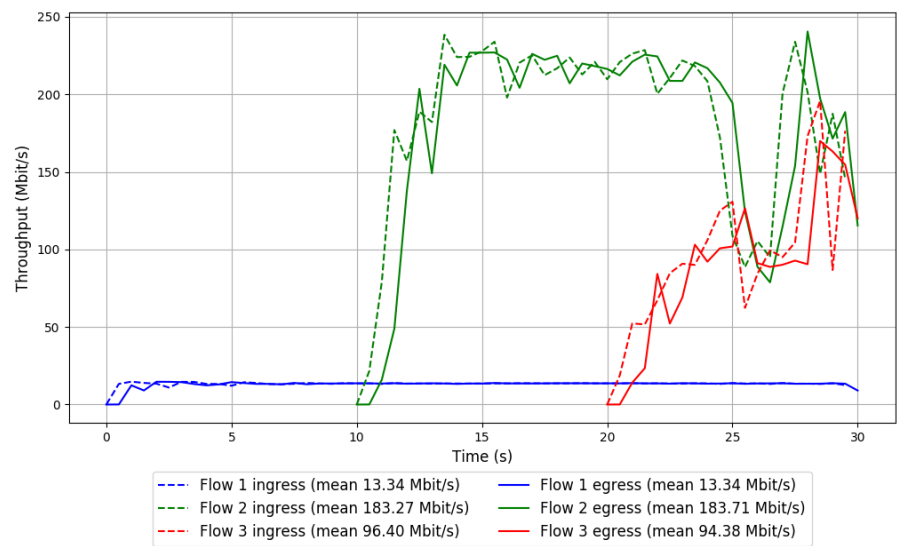
-- Flow 3:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 161.550 ms

Loss rate: 3.51%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-19 21:36:25

End at: 2018-07-19 21:36:55

Local clock offset: -0.173 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-07-20 00:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.50 Mbit/s

95th percentile per-packet one-way delay: 157.077 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 131.35 Mbit/s

95th percentile per-packet one-way delay: 151.016 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 127.79 Mbit/s

95th percentile per-packet one-way delay: 165.188 ms

Loss rate: 0.89%

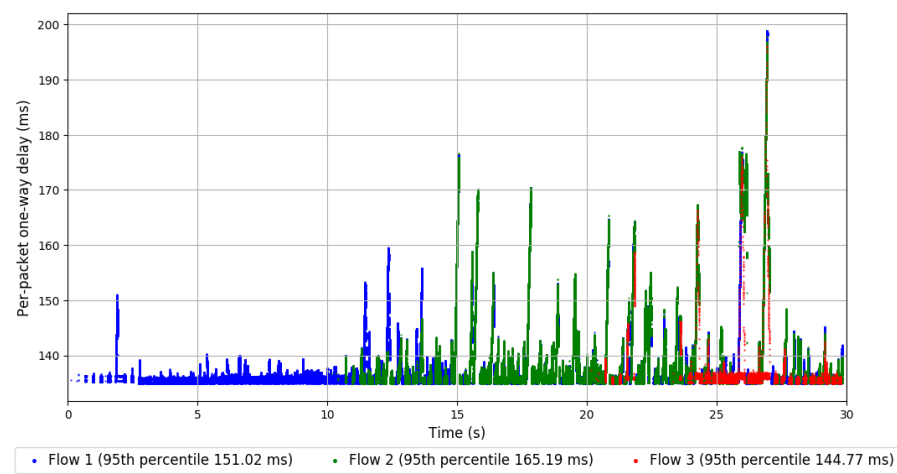
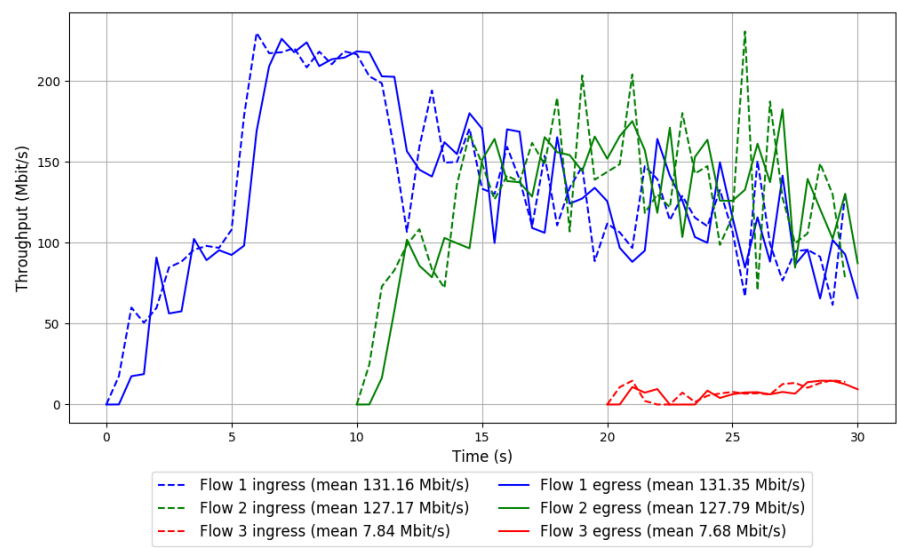
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 144.772 ms

Loss rate: 4.72%

Run 10: Report of TaoVA-100x — Data Link

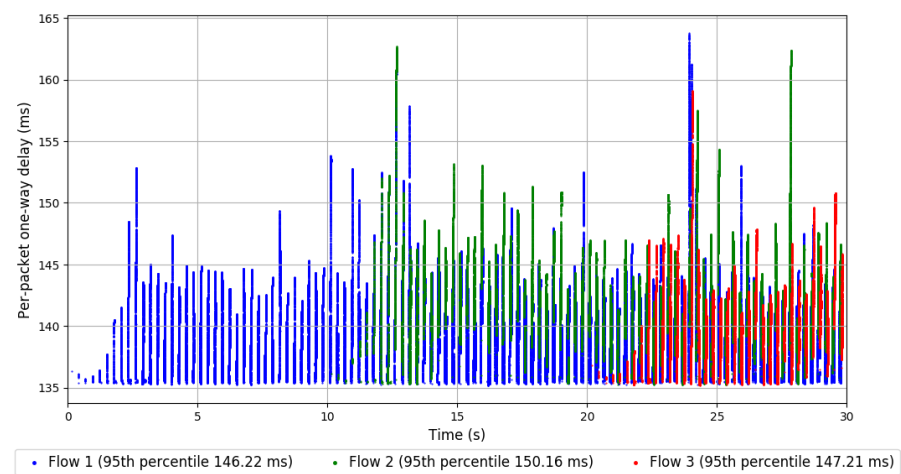
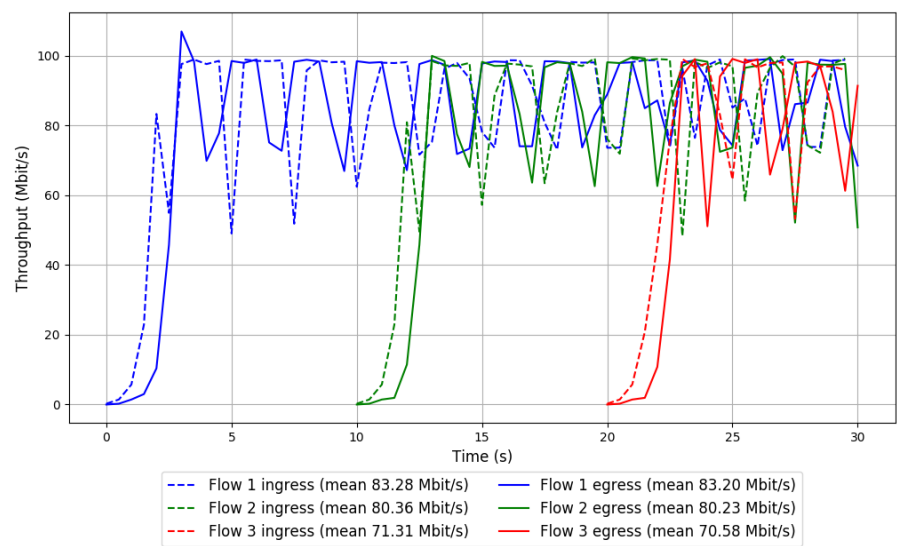


Run 1: Statistics of TCP Vegas

Start at: 2018-07-19 17:25:37
End at: 2018-07-19 17:26:07
Local clock offset: -0.284 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-07-20 00:12:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.06 Mbit/s
95th percentile per-packet one-way delay: 148.156 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 83.20 Mbit/s
95th percentile per-packet one-way delay: 146.217 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 80.23 Mbit/s
95th percentile per-packet one-way delay: 150.164 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 147.209 ms
Loss rate: 3.74%

Run 1: Report of TCP Vegas — Data Link

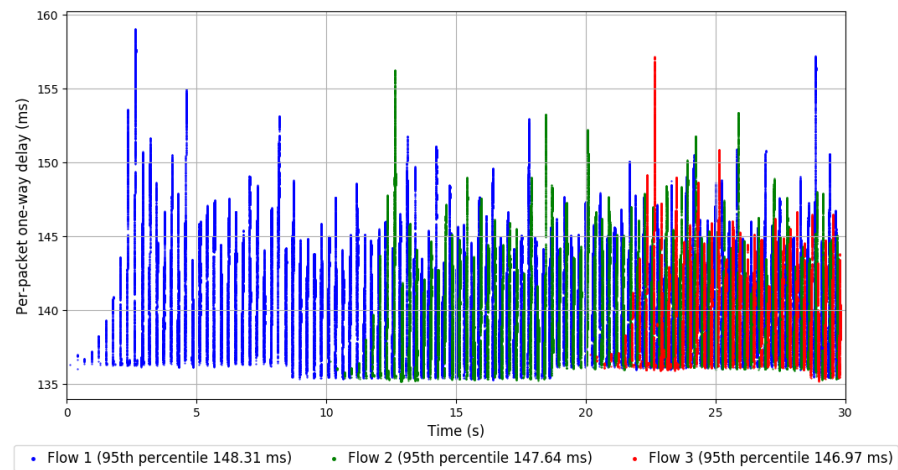
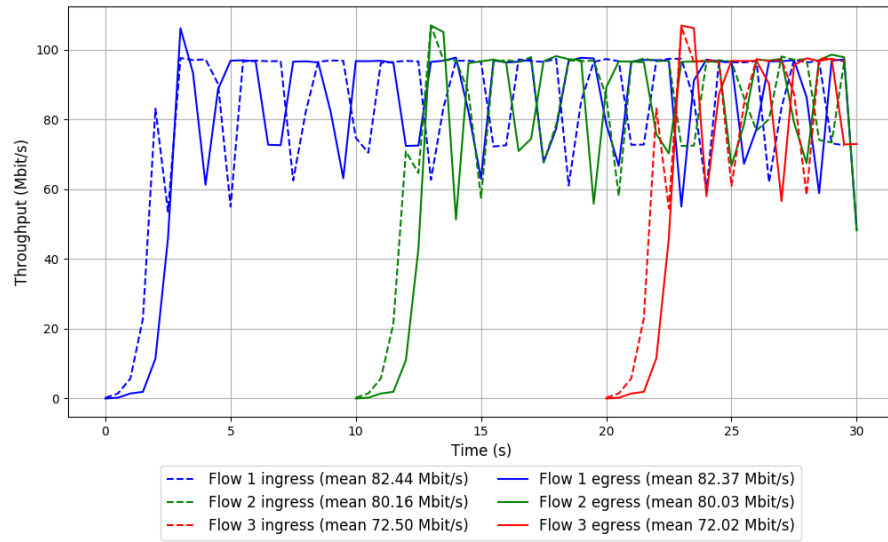


Run 2: Statistics of TCP Vegas

Start at: 2018-07-19 17:52:19
End at: 2018-07-19 17:52:49
Local clock offset: -0.146 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-07-20 00:12:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 158.24 Mbit/s
95th percentile per-packet one-way delay: 147.945 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 82.37 Mbit/s
95th percentile per-packet one-way delay: 148.307 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 80.03 Mbit/s
95th percentile per-packet one-way delay: 147.643 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 72.02 Mbit/s
95th percentile per-packet one-way delay: 146.972 ms
Loss rate: 3.35%

Run 2: Report of TCP Vegas — Data Link

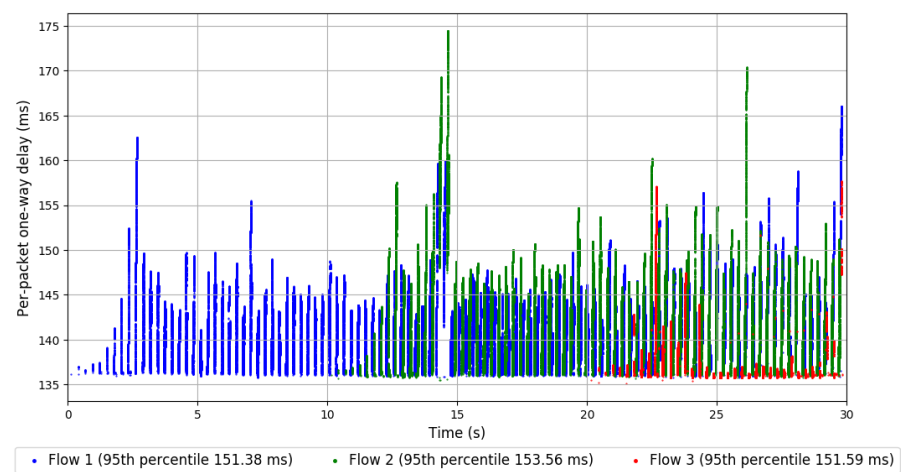
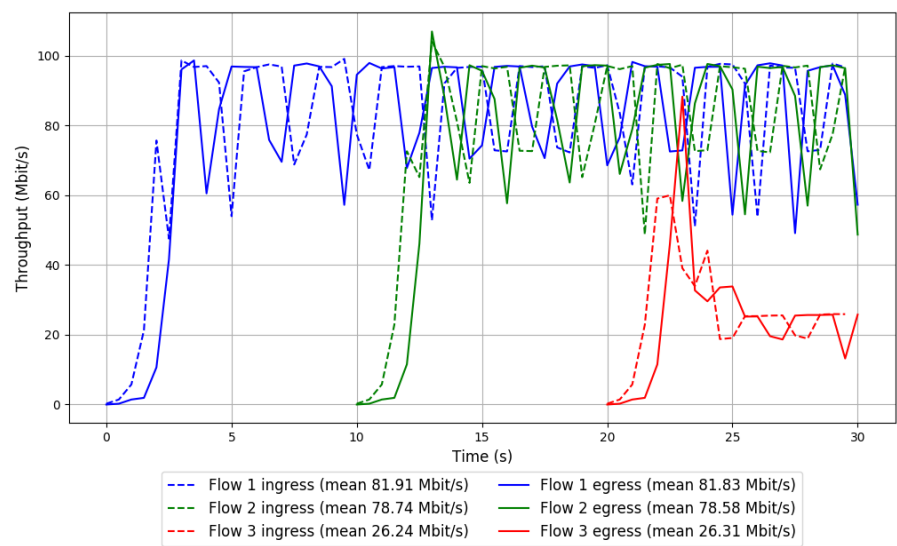


Run 3: Statistics of TCP Vegas

Start at: 2018-07-19 18:19:11
End at: 2018-07-19 18:19:41
Local clock offset: -0.116 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-07-20 00:12:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.19 Mbit/s
95th percentile per-packet one-way delay: 152.233 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 151.379 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 78.58 Mbit/s
95th percentile per-packet one-way delay: 153.555 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 151.586 ms
Loss rate: 2.49%

Run 3: Report of TCP Vegas — Data Link

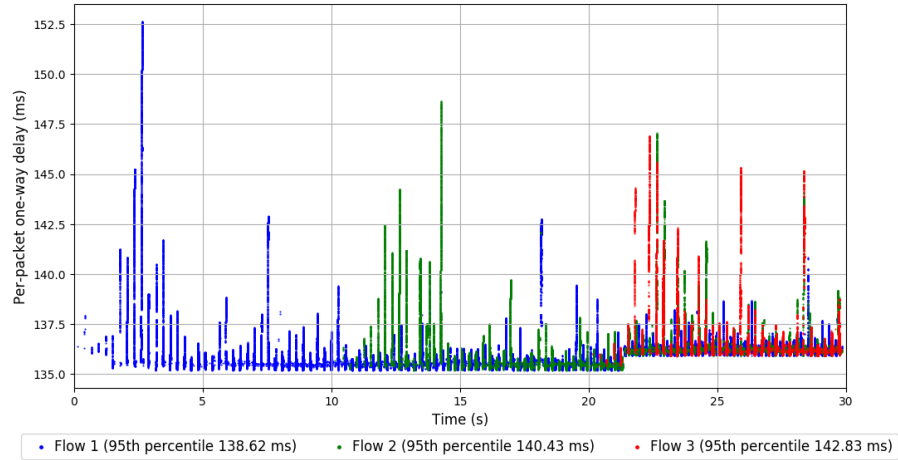
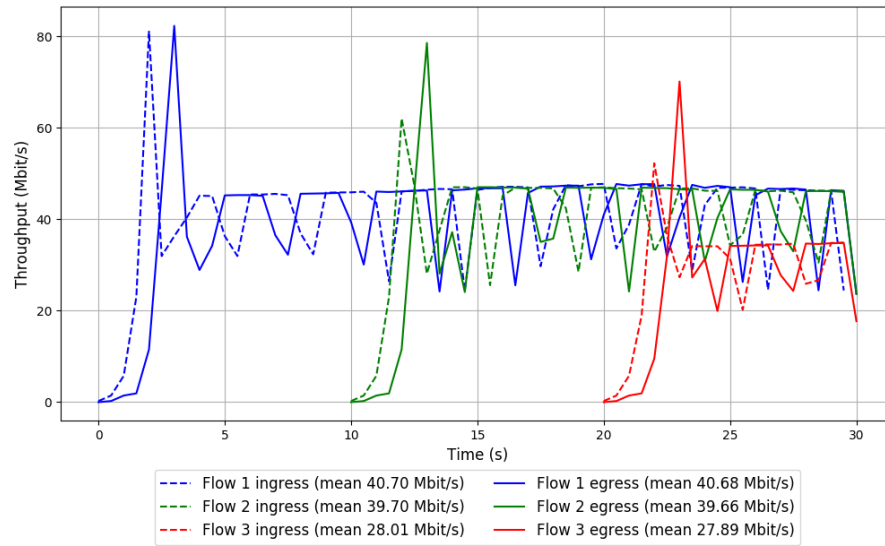


Run 4: Statistics of TCP Vegas

Start at: 2018-07-19 18:46:26
End at: 2018-07-19 18:46:56
Local clock offset: 0.042 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-07-20 00:12:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.06 Mbit/s
95th percentile per-packet one-way delay: 140.260 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 138.625 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 140.425 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 142.832 ms
Loss rate: 3.14%

Run 4: Report of TCP Vegas — Data Link

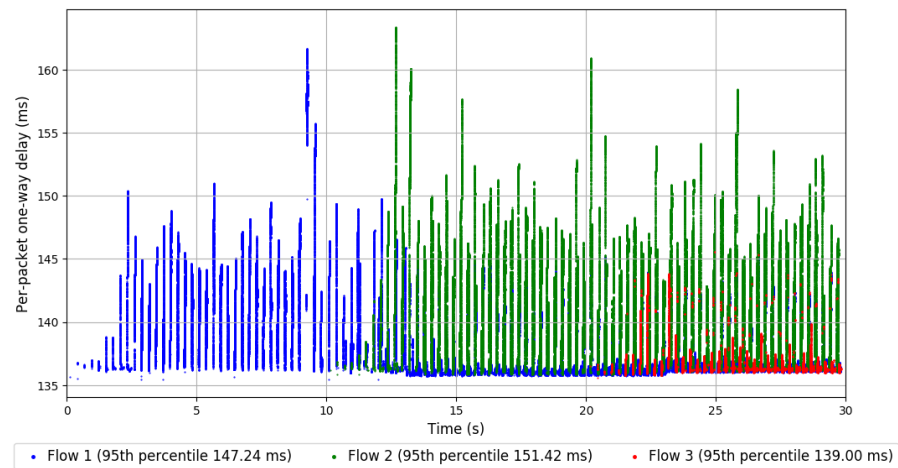
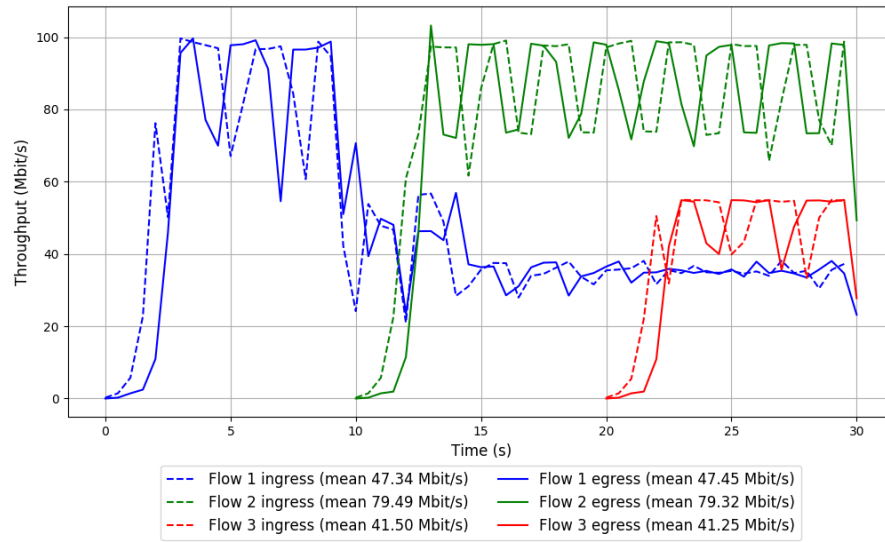


Run 5: Statistics of TCP Vegas

Start at: 2018-07-19 19:13:25
End at: 2018-07-19 19:13:55
Local clock offset: -0.221 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-07-20 00:12:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.13 Mbit/s
95th percentile per-packet one-way delay: 149.512 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 147.236 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 79.32 Mbit/s
95th percentile per-packet one-way delay: 151.420 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 138.995 ms
Loss rate: 3.35%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-19 19:40:20

End at: 2018-07-19 19:40:50

Local clock offset: -0.101 ms

Remote clock offset: 5.182 ms

Below is generated by plot.py at 2018-07-20 00:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 140.828 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 44.65 Mbit/s

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

Loss rate: 0.99%

-- Flow 2:

Average throughput: 27.58 Mbit/s

95th percentile per-packet one-way delay: 138.534 ms

Loss rate: 1.45%

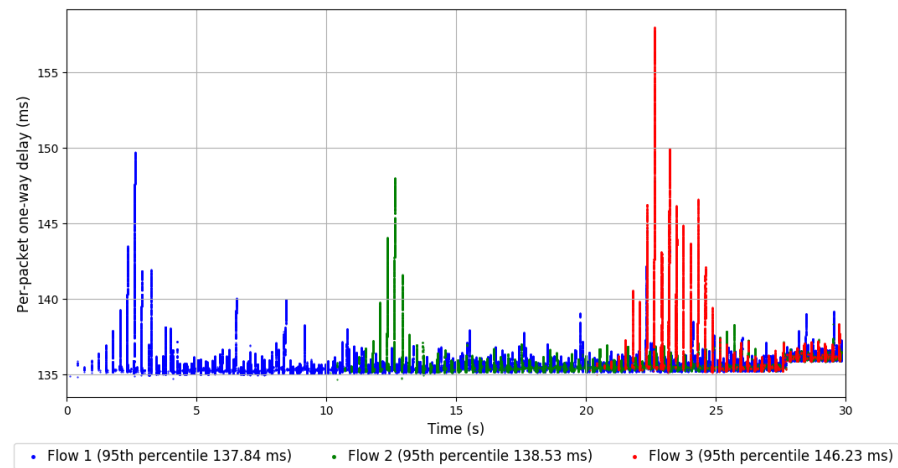
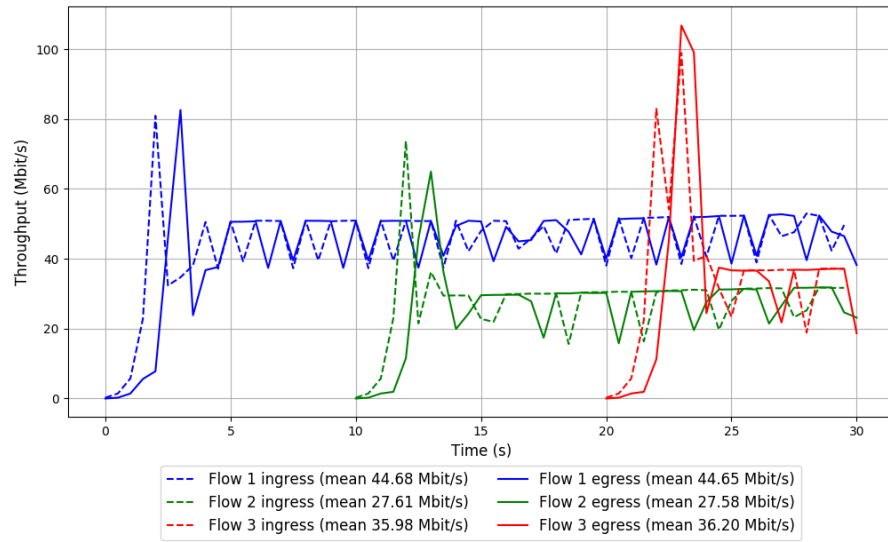
-- Flow 3:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 146.231 ms

Loss rate: 2.61%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-19 20:07:34

End at: 2018-07-19 20:08:04

Local clock offset: -0.325 ms

Remote clock offset: 12.39 ms

Below is generated by plot.py at 2018-07-20 00:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 147.942 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 32.16 Mbit/s

95th percentile per-packet one-way delay: 140.831 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 23.21 Mbit/s

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

Loss rate: 1.46%

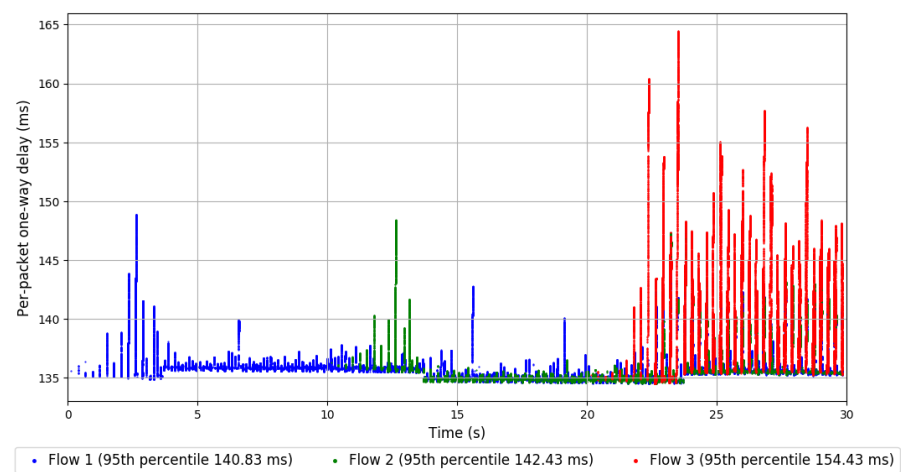
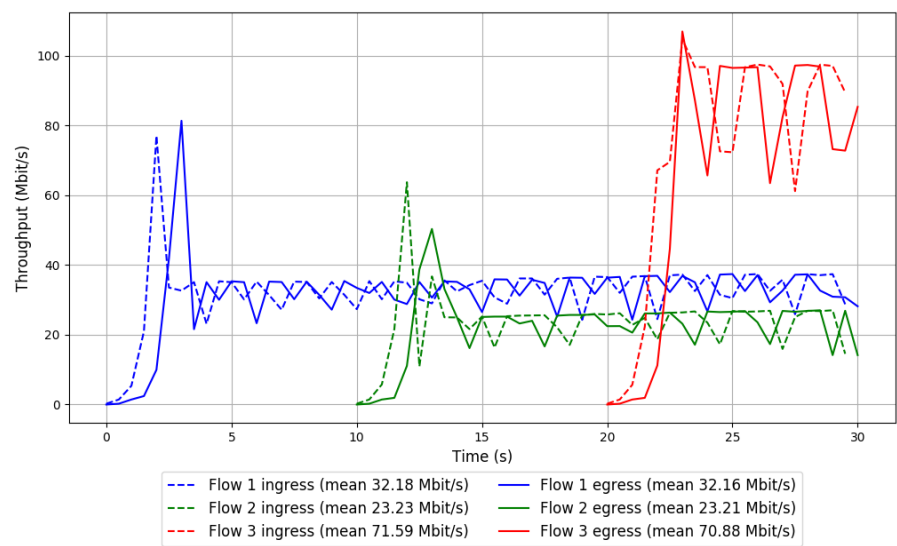
-- Flow 3:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 154.427 ms

Loss rate: 3.69%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-19 20:34:48

End at: 2018-07-19 20:35:18

Local clock offset: -0.273 ms

Remote clock offset: 7.679 ms

Below is generated by plot.py at 2018-07-20 00:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.49 Mbit/s

95th percentile per-packet one-way delay: 149.672 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 81.86 Mbit/s

95th percentile per-packet one-way delay: 149.873 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 143.553 ms

Loss rate: 2.99%

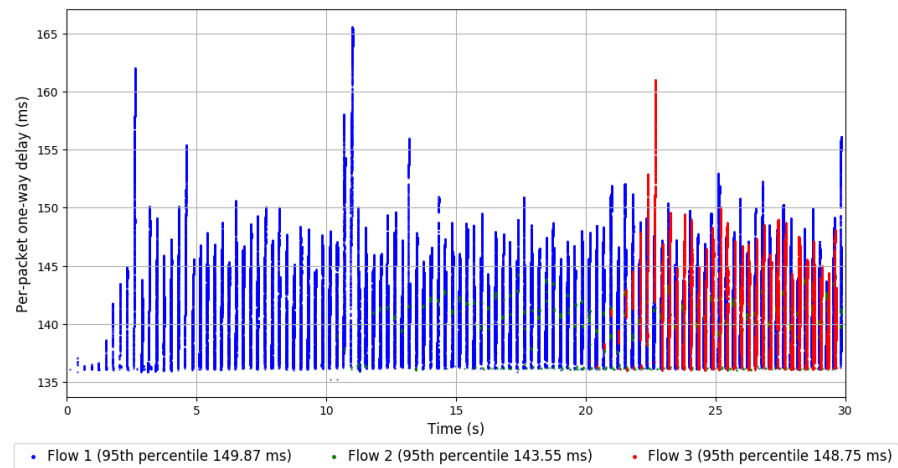
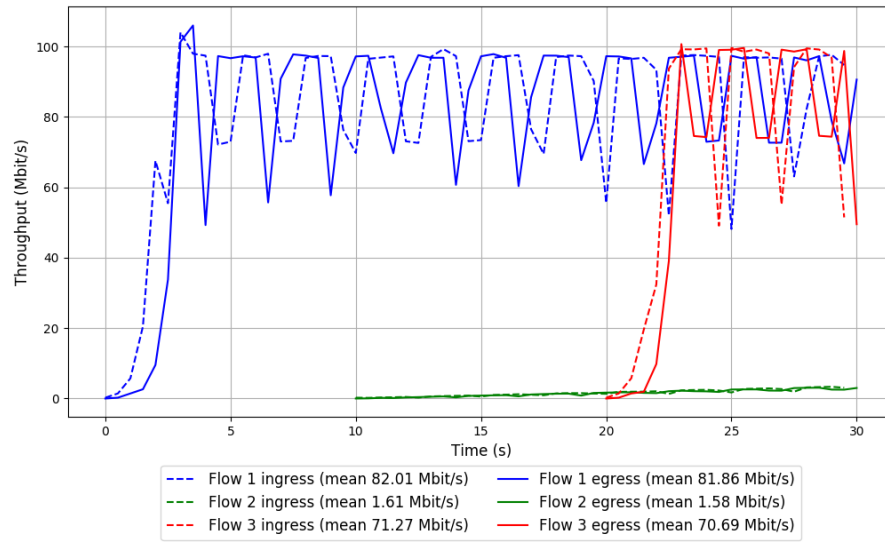
-- Flow 3:

Average throughput: 70.69 Mbit/s

95th percentile per-packet one-way delay: 148.745 ms

Loss rate: 3.57%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-19 21:01:34

End at: 2018-07-19 21:02:04

Local clock offset: 0.025 ms

Remote clock offset: 3.512 ms

Below is generated by plot.py at 2018-07-20 00:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 150.173 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 81.94 Mbit/s

95th percentile per-packet one-way delay: 150.705 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 144.596 ms

Loss rate: 1.66%

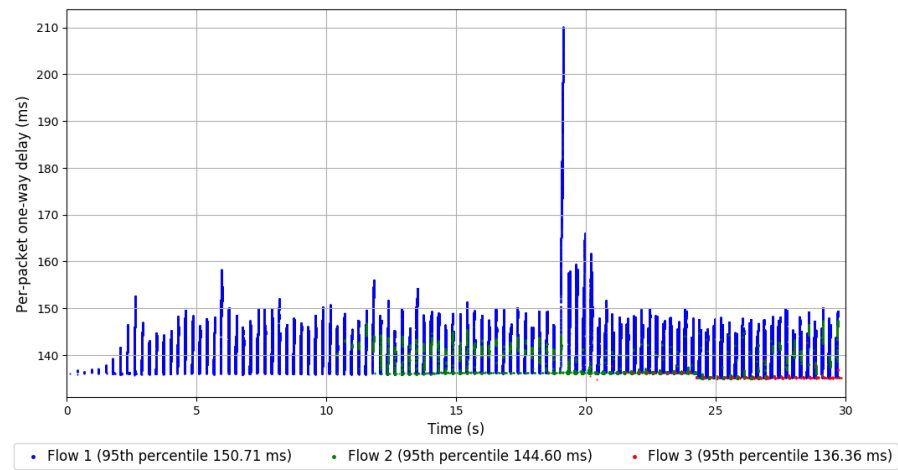
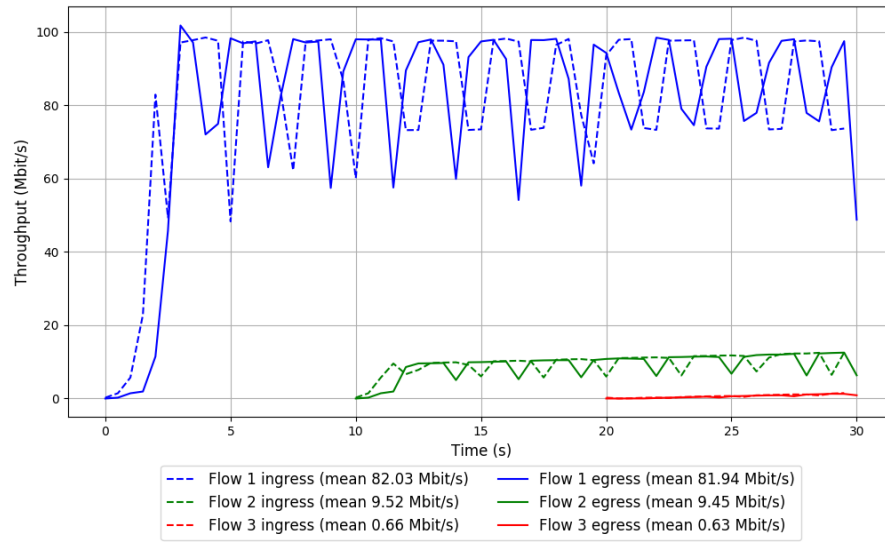
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 136.359 ms

Loss rate: 7.48%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-19 21:28:26

End at: 2018-07-19 21:28:56

Local clock offset: -0.009 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-07-20 00:12:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.62 Mbit/s

95th percentile per-packet one-way delay: 147.630 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 83.77 Mbit/s

95th percentile per-packet one-way delay: 148.584 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 145.774 ms

Loss rate: 1.55%

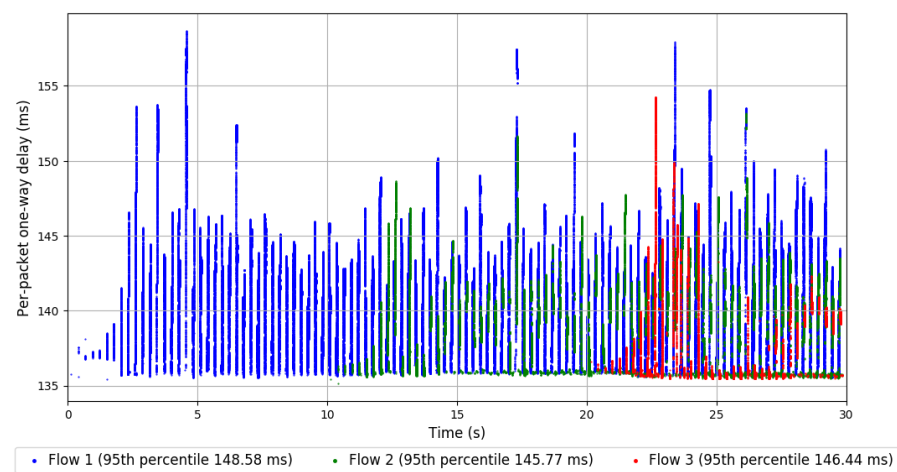
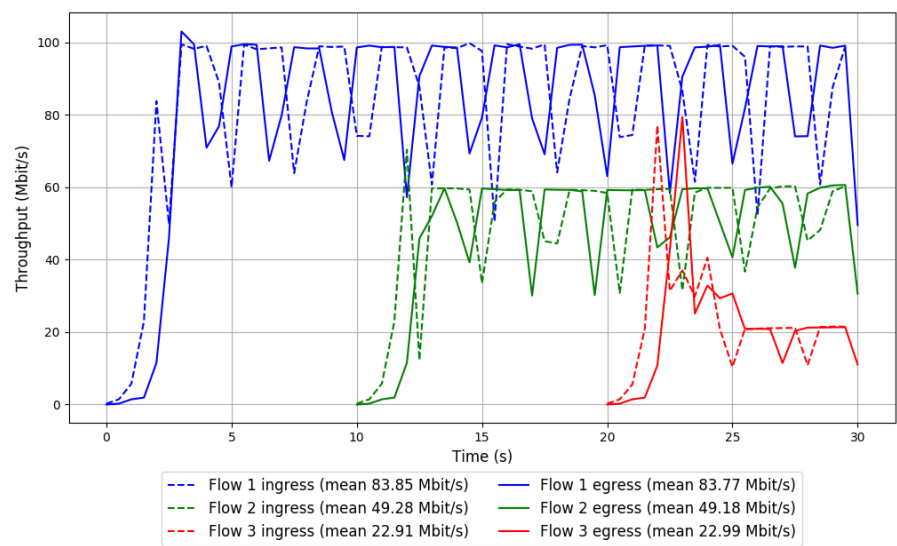
-- Flow 3:

Average throughput: 22.99 Mbit/s

95th percentile per-packet one-way delay: 146.439 ms

Loss rate: 2.37%

Run 10: Report of TCP Vegas — Data Link

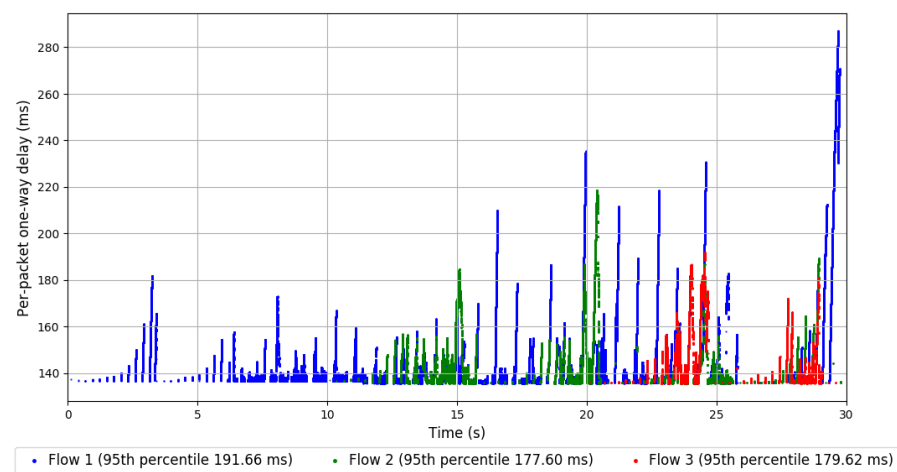
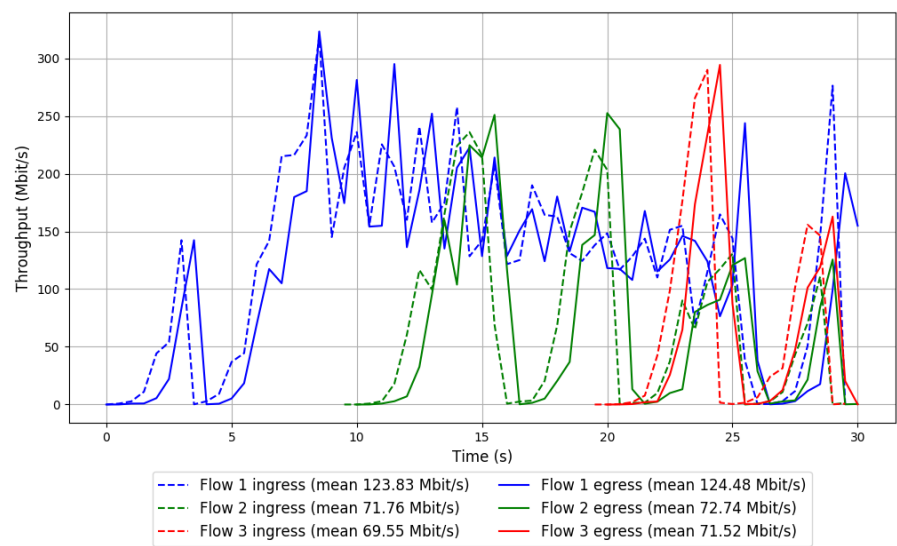


Run 1: Statistics of Verus

Start at: 2018-07-19 17:20:36
End at: 2018-07-19 17:21:06
Local clock offset: -0.231 ms
Remote clock offset: -0.433 ms

Below is generated by plot.py at 2018-07-20 00:14:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 195.46 Mbit/s
95th percentile per-packet one-way delay: 182.417 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 124.48 Mbit/s
95th percentile per-packet one-way delay: 191.663 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 177.596 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 71.52 Mbit/s
95th percentile per-packet one-way delay: 179.619 ms
Loss rate: 0.05%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-19 17:47:18

End at: 2018-07-19 17:47:48

Local clock offset: -0.265 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-07-20 00:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.38 Mbit/s

95th percentile per-packet one-way delay: 173.521 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 179.920 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 166.558 ms

Loss rate: 0.01%

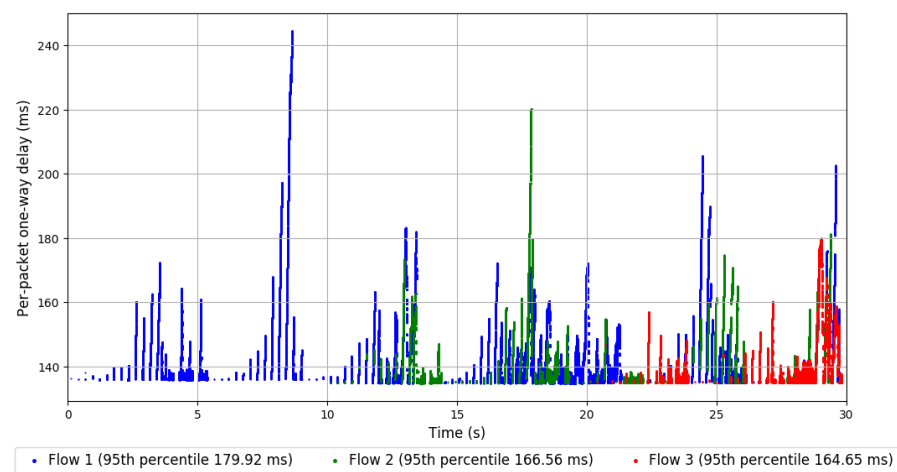
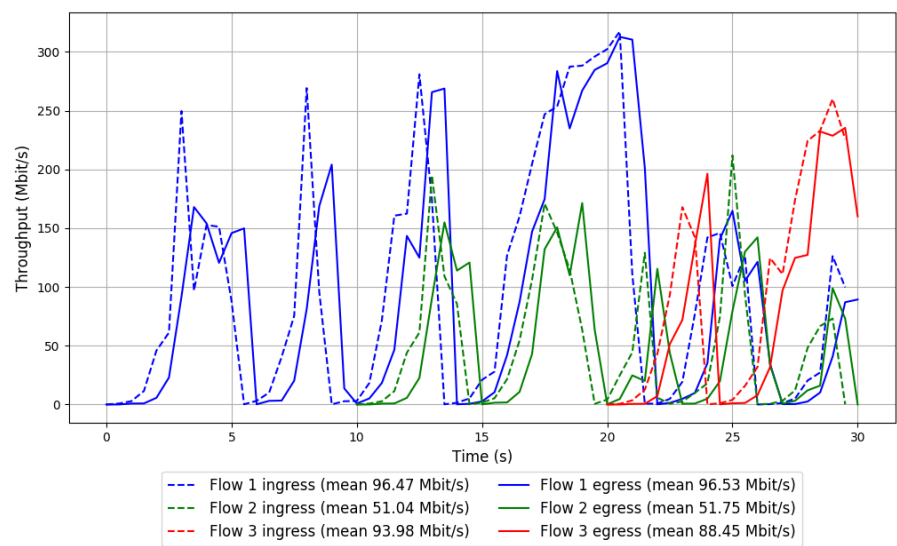
-- Flow 3:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 164.654 ms

Loss rate: 8.45%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-19 18:14:08

End at: 2018-07-19 18:14:38

Local clock offset: 0.067 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-07-20 00:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.91 Mbit/s

95th percentile per-packet one-way delay: 386.721 ms

Loss rate: 9.73%

-- Flow 1:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 237.874 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 67.14 Mbit/s

95th percentile per-packet one-way delay: 258.718 ms

Loss rate: 1.93%

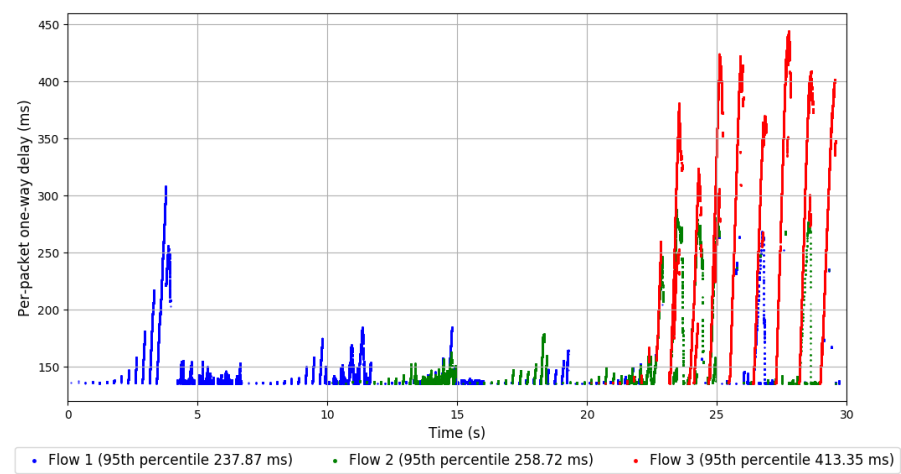
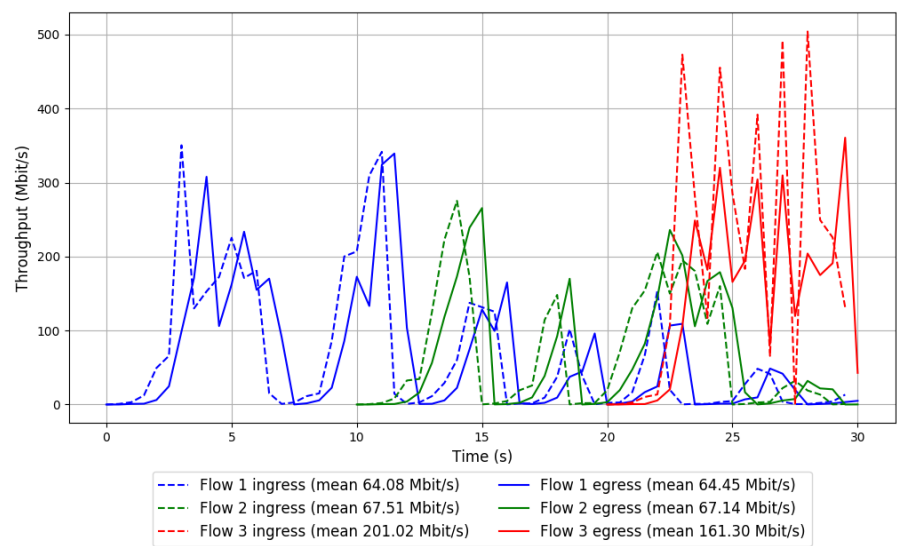
-- Flow 3:

Average throughput: 161.30 Mbit/s

95th percentile per-packet one-way delay: 413.352 ms

Loss rate: 23.94%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-19 18:41:26

End at: 2018-07-19 18:41:56

Local clock offset: -0.083 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-07-20 00:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.90 Mbit/s

95th percentile per-packet one-way delay: 343.368 ms

Loss rate: 4.19%

-- Flow 1:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 223.467 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 380.334 ms

Loss rate: 8.25%

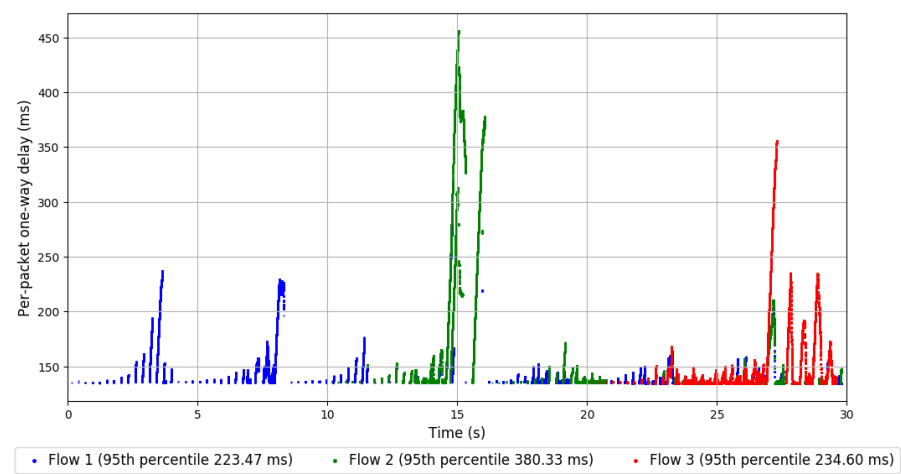
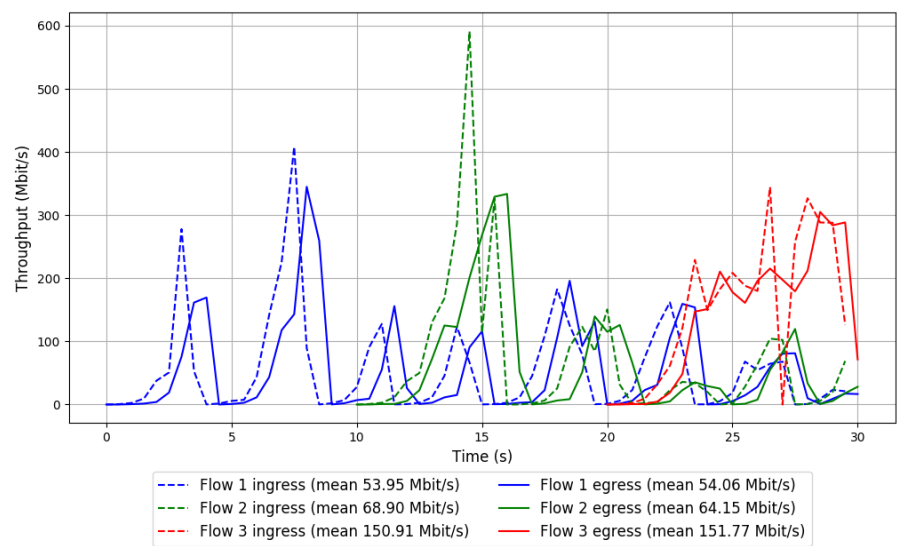
-- Flow 3:

Average throughput: 151.77 Mbit/s

95th percentile per-packet one-way delay: 234.604 ms

Loss rate: 4.21%

Run 4: Report of Verus — Data Link

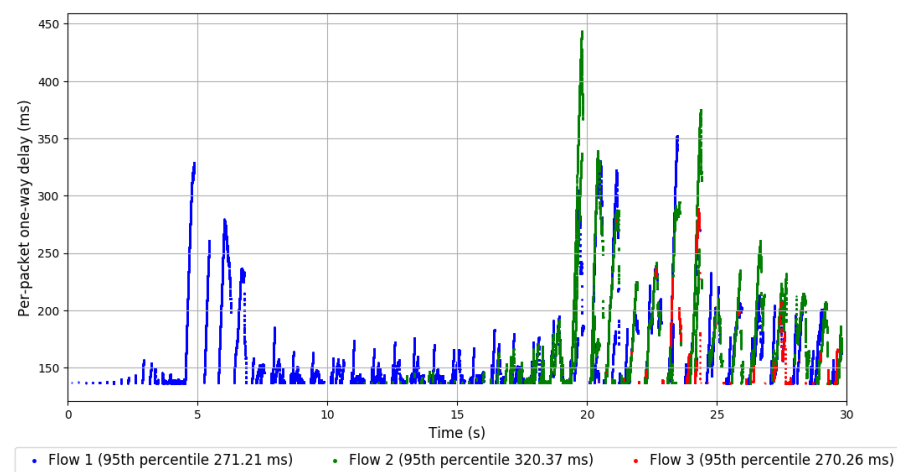
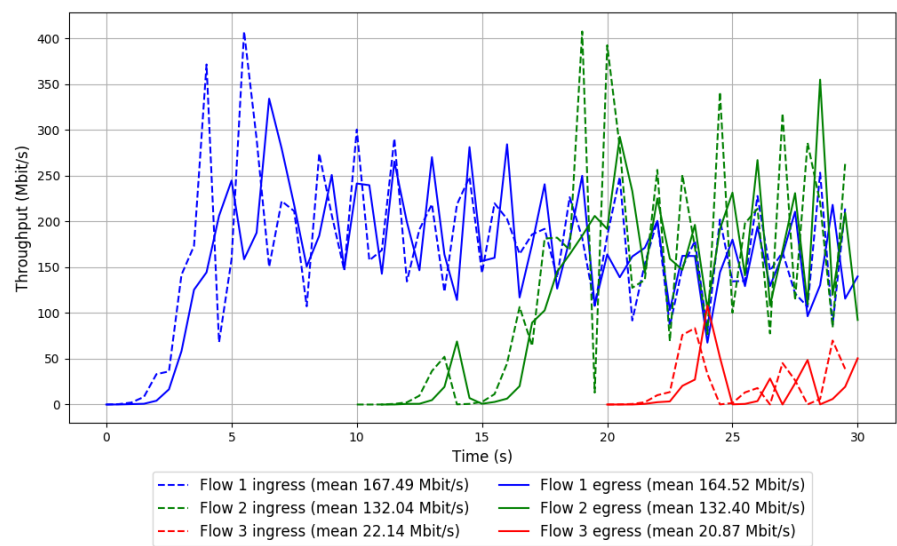


Run 5: Statistics of Verus

Start at: 2018-07-19 19:08:13
End at: 2018-07-19 19:08:43
Local clock offset: 0.011 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-07-20 00:16:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.48 Mbit/s
95th percentile per-packet one-way delay: 285.059 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 164.52 Mbit/s
95th percentile per-packet one-way delay: 271.207 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 132.40 Mbit/s
95th percentile per-packet one-way delay: 320.369 ms
Loss rate: 6.13%
-- Flow 3:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 270.261 ms
Loss rate: 10.22%

Run 5: Report of Verus — Data Link

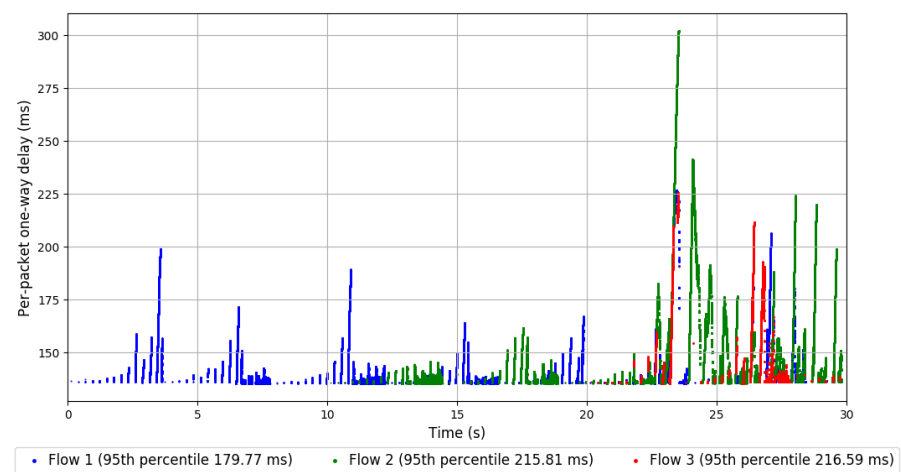
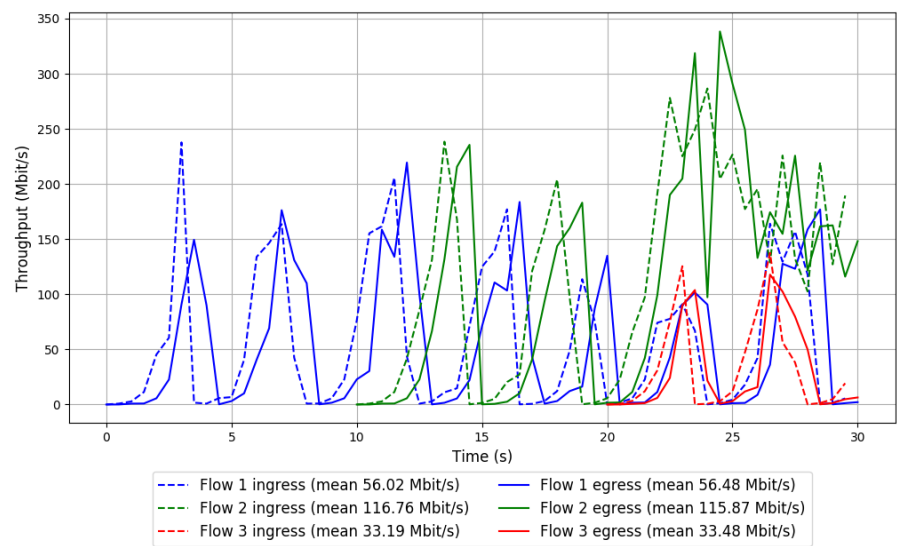


Run 6: Statistics of Verus

Start at: 2018-07-19 19:35:22
End at: 2018-07-19 19:35:52
Local clock offset: -0.048 ms
Remote clock offset: 2.722 ms

Below is generated by plot.py at 2018-07-20 00:16:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.04 Mbit/s
95th percentile per-packet one-way delay: 204.593 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 179.773 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 115.87 Mbit/s
95th percentile per-packet one-way delay: 215.809 ms
Loss rate: 2.35%
-- Flow 3:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 216.588 ms
Loss rate: 1.96%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-19 20:02:27

End at: 2018-07-19 20:02:57

Local clock offset: -0.208 ms

Remote clock offset: 15.56 ms

Below is generated by plot.py at 2018-07-20 00:16:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.01 Mbit/s

95th percentile per-packet one-way delay: 180.862 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 190.129 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 131.42 Mbit/s

95th percentile per-packet one-way delay: 169.282 ms

Loss rate: 1.93%

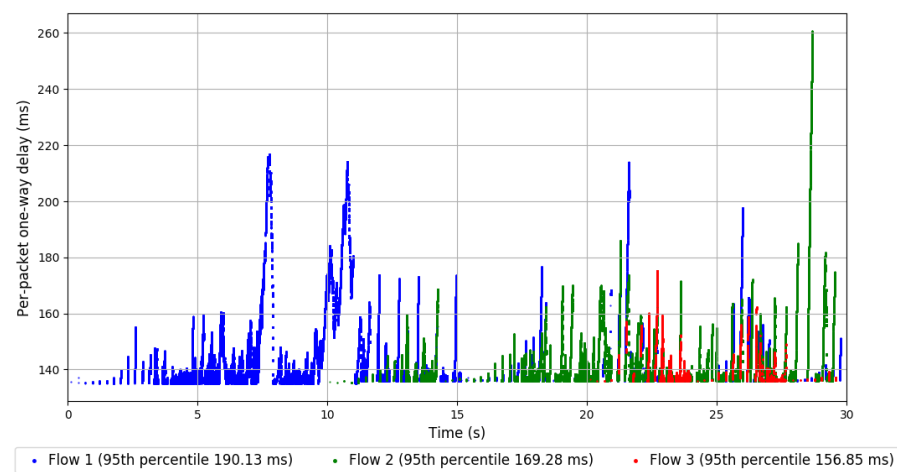
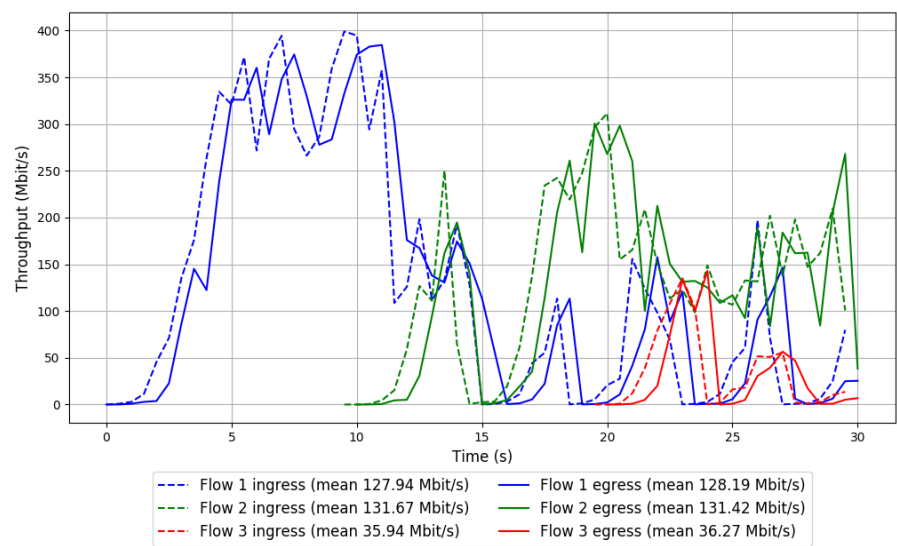
-- Flow 3:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 156.846 ms

Loss rate: 1.94%

Run 7: Report of Verus — Data Link

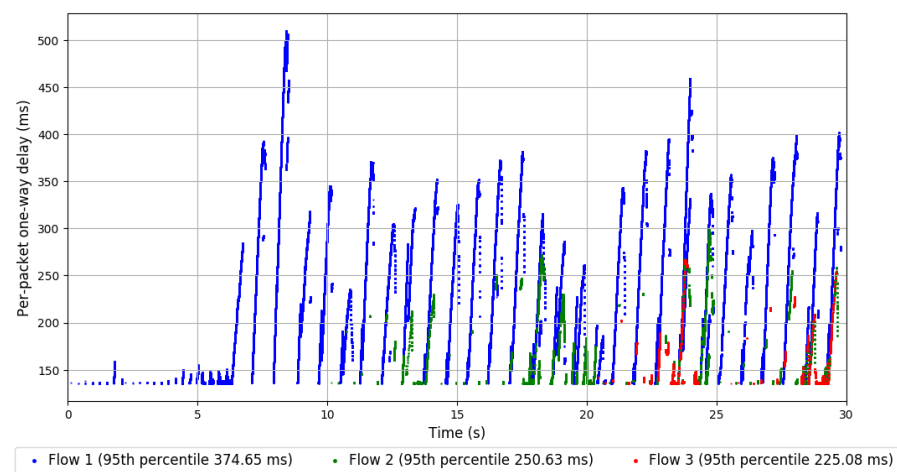
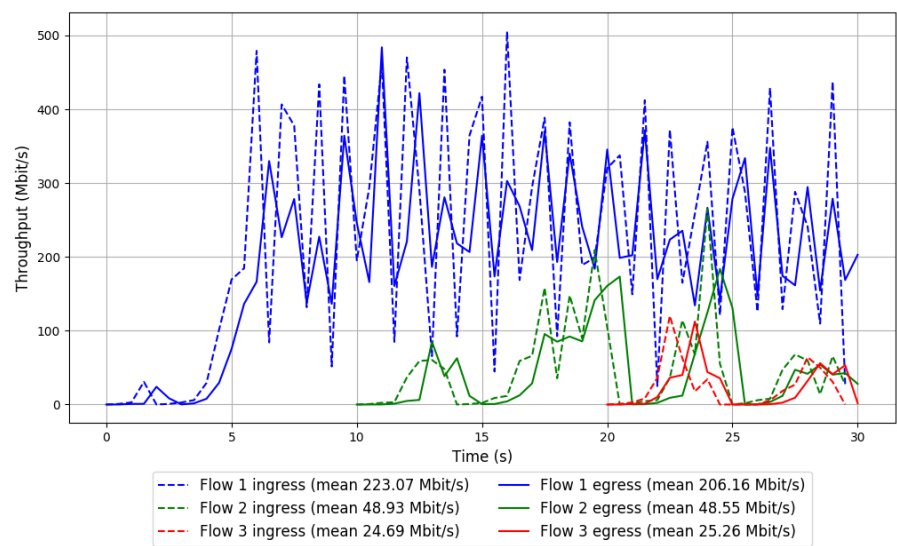


Run 8: Statistics of Verus

Start at: 2018-07-19 20:29:36
End at: 2018-07-19 20:30:06
Local clock offset: -0.181 ms
Remote clock offset: 7.151 ms

Below is generated by plot.py at 2018-07-20 00:18:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 246.13 Mbit/s
95th percentile per-packet one-way delay: 370.531 ms
Loss rate: 7.61%
-- Flow 1:
Average throughput: 206.16 Mbit/s
95th percentile per-packet one-way delay: 374.655 ms
Loss rate: 8.54%
-- Flow 2:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 250.628 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 225.077 ms
Loss rate: 0.56%

Run 8: Report of Verus — Data Link

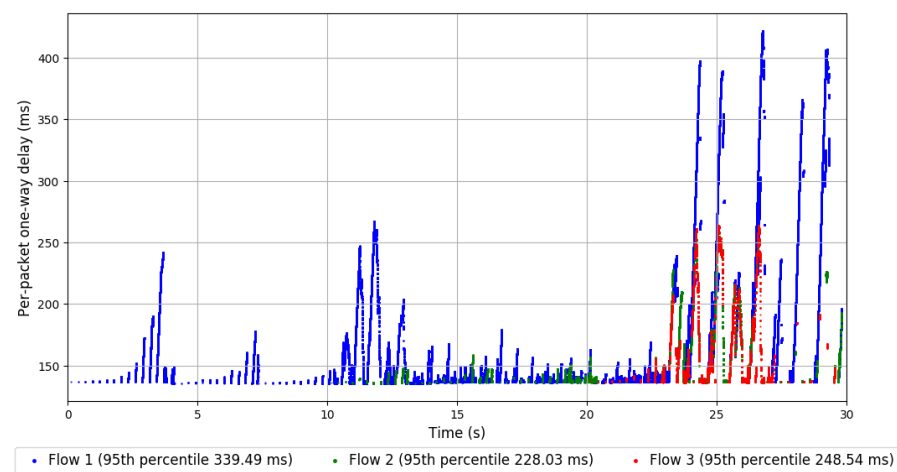
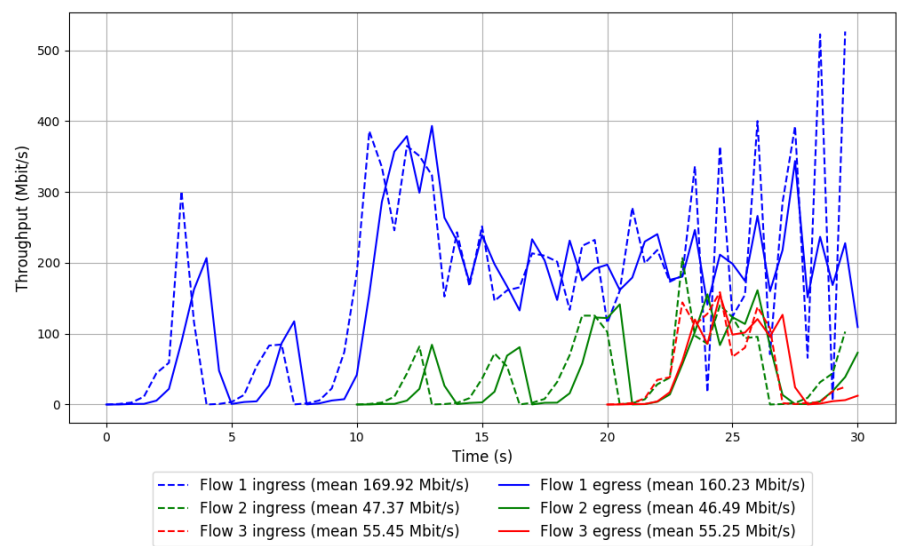


Run 9: Statistics of Verus

Start at: 2018-07-19 20:56:34
End at: 2018-07-19 20:57:04
Local clock offset: 0.054 ms
Remote clock offset: 2.651 ms

Below is generated by plot.py at 2018-07-20 00:18:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 208.54 Mbit/s
95th percentile per-packet one-way delay: 310.787 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 160.23 Mbit/s
95th percentile per-packet one-way delay: 339.490 ms
Loss rate: 6.49%
-- Flow 2:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 228.026 ms
Loss rate: 3.18%
-- Flow 3:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 248.545 ms
Loss rate: 3.23%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-19 21:23:26

End at: 2018-07-19 21:23:56

Local clock offset: 0.089 ms

Remote clock offset: 0.89 ms

Below is generated by plot.py at 2018-07-20 00:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 165.944 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 112.15 Mbit/s

95th percentile per-packet one-way delay: 159.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.98 Mbit/s

95th percentile per-packet one-way delay: 171.520 ms

Loss rate: 5.05%

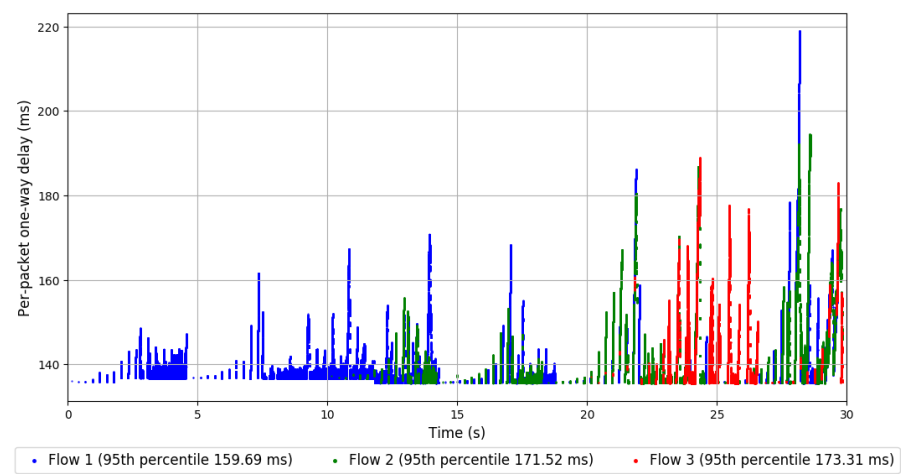
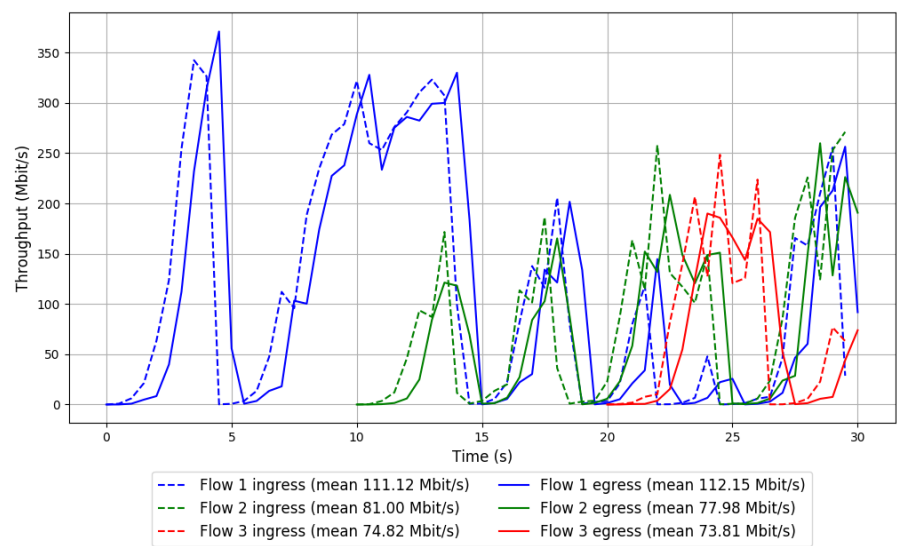
-- Flow 3:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 173.307 ms

Loss rate: 2.53%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-19 17:17:10

End at: 2018-07-19 17:17:40

Local clock offset: -0.239 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2018-07-20 00:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.76 Mbit/s

95th percentile per-packet one-way delay: 137.324 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 229.91 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 174.00 Mbit/s

95th percentile per-packet one-way delay: 139.382 ms

Loss rate: 0.98%

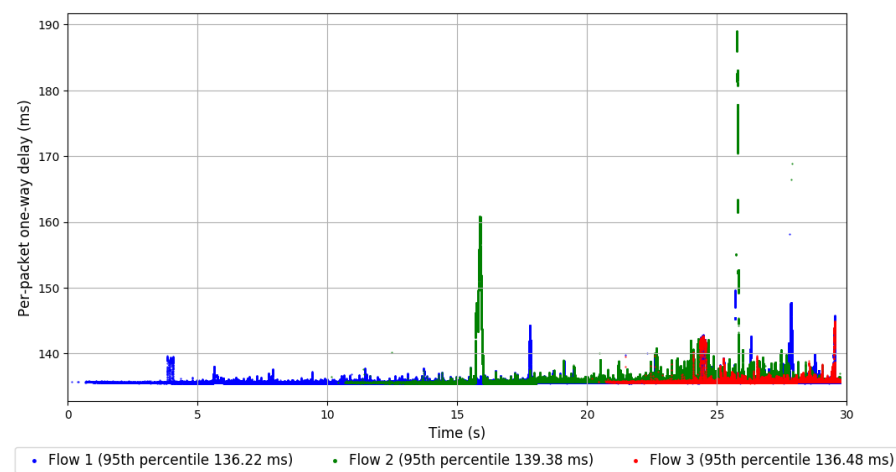
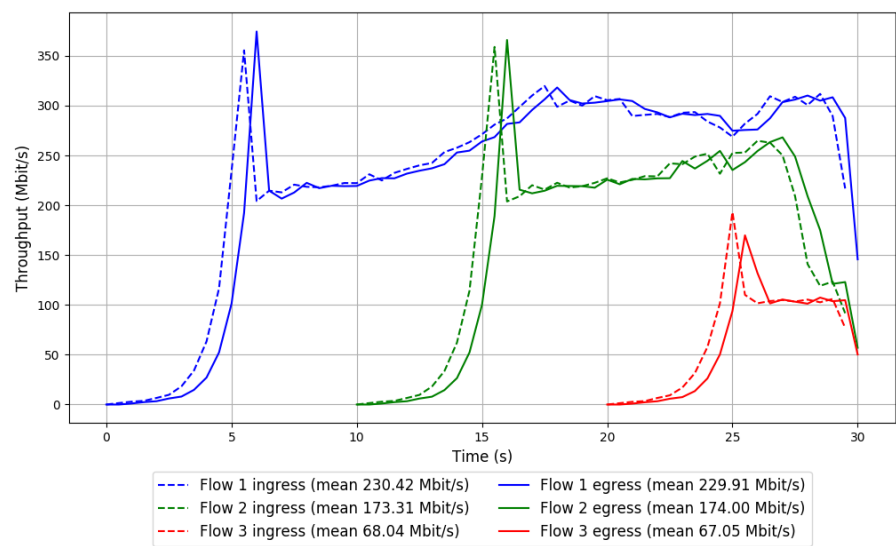
-- Flow 3:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 136.483 ms

Loss rate: 4.20%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-19 17:43:45

End at: 2018-07-19 17:44:15

Local clock offset: -0.167 ms

Remote clock offset: 0.248 ms

Below is generated by plot.py at 2018-07-20 00:22:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.90 Mbit/s

95th percentile per-packet one-way delay: 144.154 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 215.76 Mbit/s

95th percentile per-packet one-way delay: 139.876 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 234.26 Mbit/s

95th percentile per-packet one-way delay: 158.951 ms

Loss rate: 1.58%

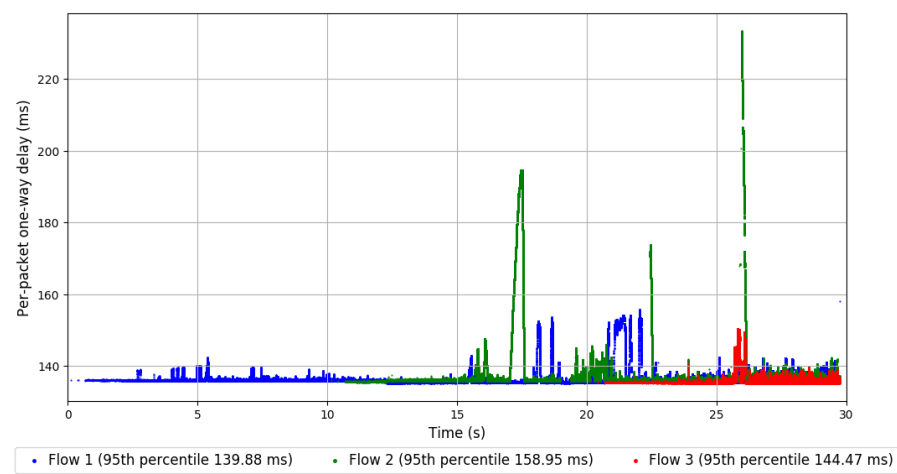
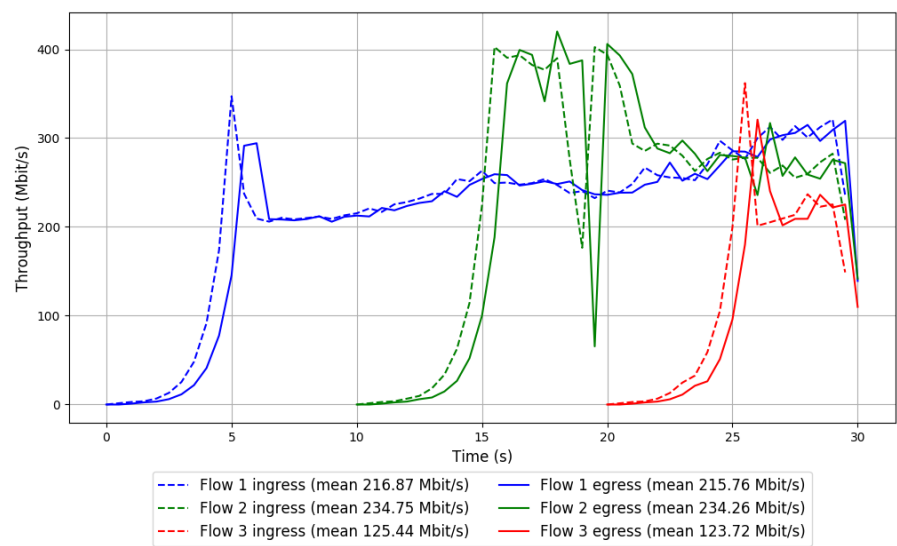
-- Flow 3:

Average throughput: 123.72 Mbit/s

95th percentile per-packet one-way delay: 144.470 ms

Loss rate: 4.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-19 18:10:39

End at: 2018-07-19 18:11:09

Local clock offset: -0.197 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-07-20 00:22:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.24 Mbit/s

95th percentile per-packet one-way delay: 144.059 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 206.36 Mbit/s

95th percentile per-packet one-way delay: 199.057 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 183.66 Mbit/s

95th percentile per-packet one-way delay: 137.847 ms

Loss rate: 1.93%

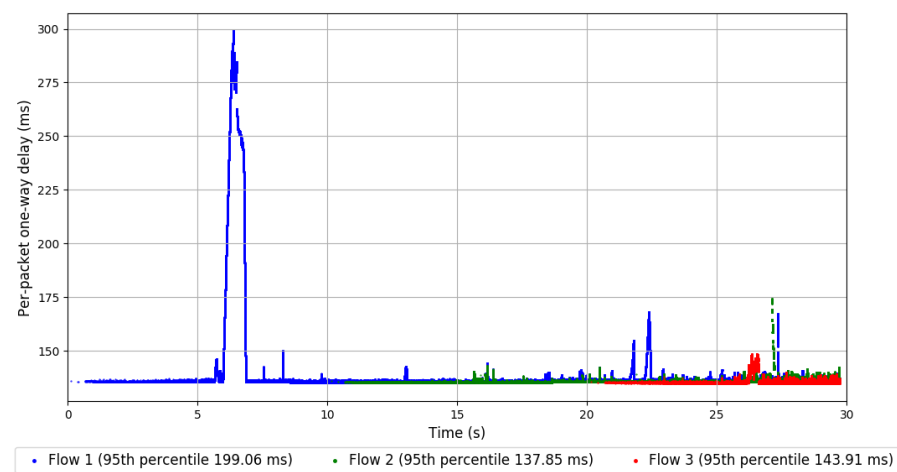
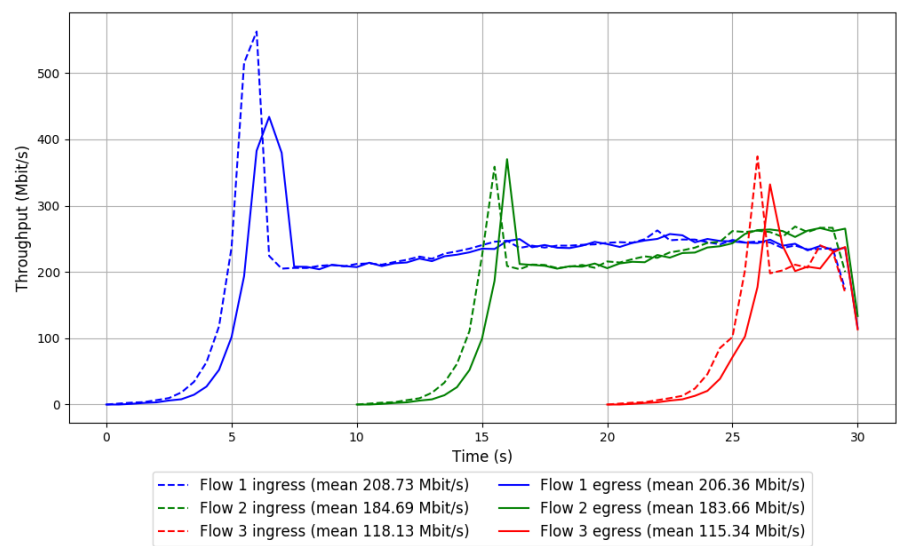
-- Flow 3:

Average throughput: 115.34 Mbit/s

95th percentile per-packet one-way delay: 143.907 ms

Loss rate: 5.09%

Run 3: Report of PCC-Vivace — Data Link

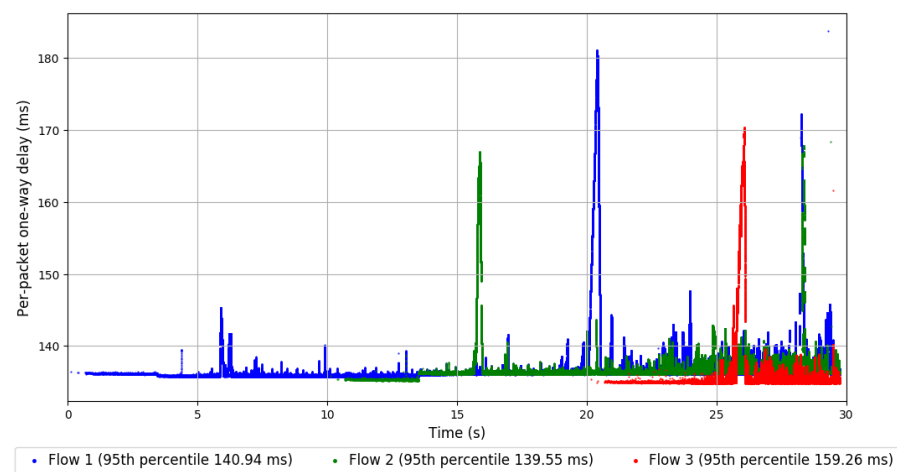
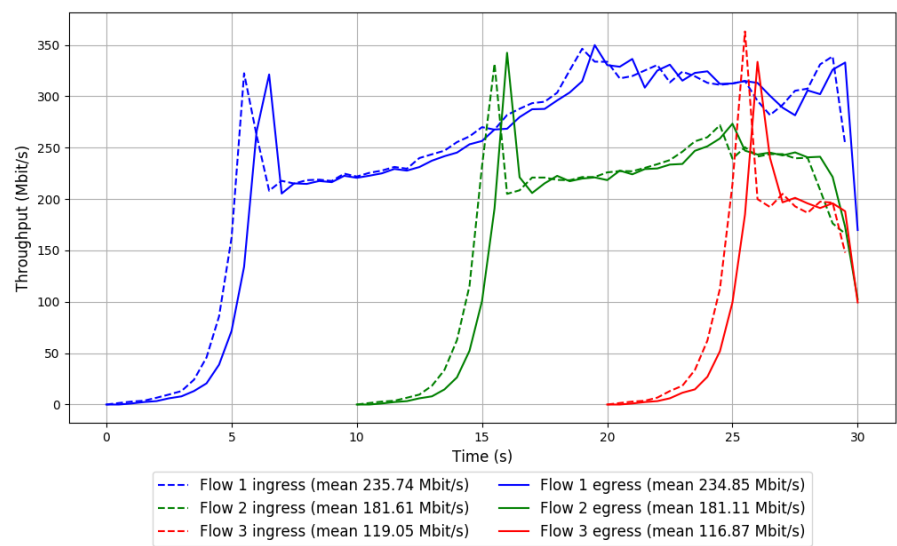


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-19 18:37:54
End at: 2018-07-19 18:38:24
Local clock offset: -0.048 ms
Remote clock offset: -0.048 ms

```
# Below is generated by plot.py at 2018-07-20 00:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.68 Mbit/s
95th percentile per-packet one-way delay: 141.330 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 234.85 Mbit/s
95th percentile per-packet one-way delay: 140.942 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 181.11 Mbit/s
95th percentile per-packet one-way delay: 139.550 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 116.87 Mbit/s
95th percentile per-packet one-way delay: 159.260 ms
Loss rate: 4.54%
```

Run 4: Report of PCC-Vivace — Data Link

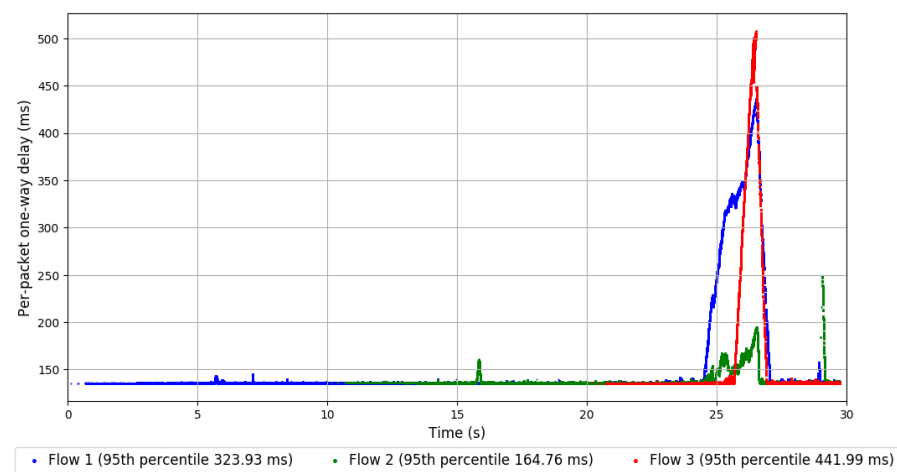
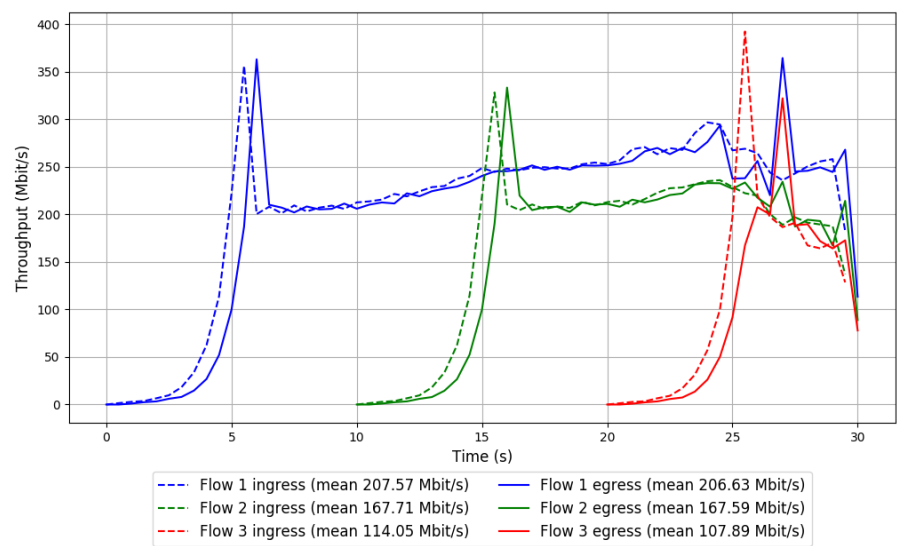


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-19 19:04:45
End at: 2018-07-19 19:05:15
Local clock offset: -0.12 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-07-20 00:24:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 352.38 Mbit/s
95th percentile per-packet one-way delay: 311.404 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 206.63 Mbit/s
95th percentile per-packet one-way delay: 323.929 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 167.59 Mbit/s
95th percentile per-packet one-way delay: 164.758 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 107.89 Mbit/s
95th percentile per-packet one-way delay: 441.986 ms
Loss rate: 8.03%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-19 19:31:52

End at: 2018-07-19 19:32:22

Local clock offset: -0.03 ms

Remote clock offset: 1.445 ms

Below is generated by plot.py at 2018-07-20 00:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.96 Mbit/s

95th percentile per-packet one-way delay: 241.390 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 238.10 Mbit/s

95th percentile per-packet one-way delay: 256.106 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 165.58 Mbit/s

95th percentile per-packet one-way delay: 140.584 ms

Loss rate: 1.24%

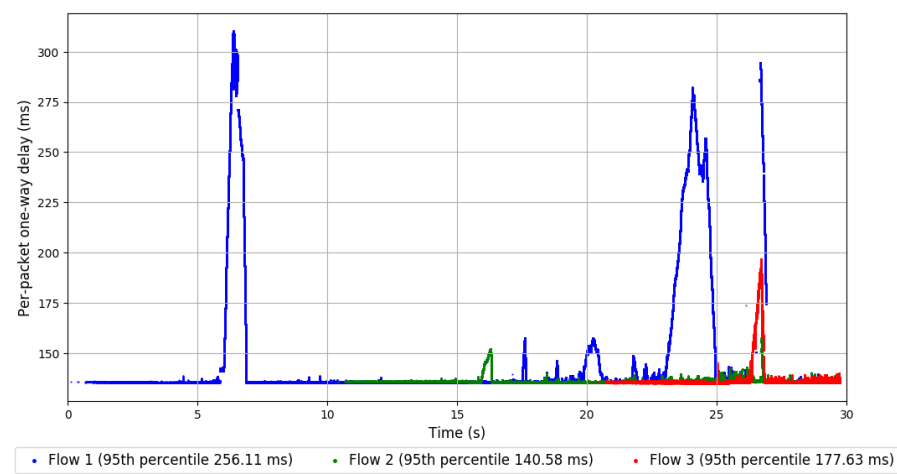
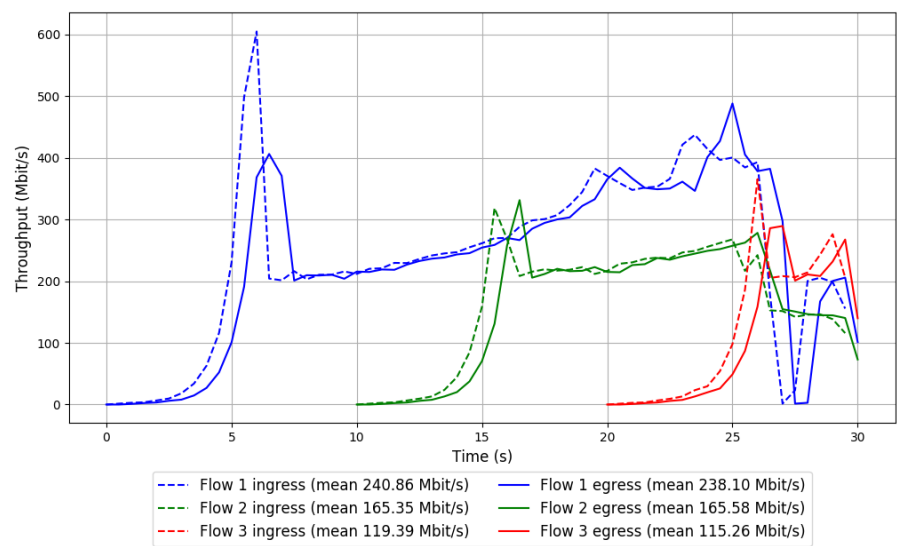
-- Flow 3:

Average throughput: 115.26 Mbit/s

95th percentile per-packet one-way delay: 177.635 ms

Loss rate: 6.14%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-19 19:58:49

End at: 2018-07-19 19:59:19

Local clock offset: -0.109 ms

Remote clock offset: 13.81 ms

Below is generated by plot.py at 2018-07-20 00:26:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 486.62 Mbit/s

95th percentile per-packet one-way delay: 147.424 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 277.90 Mbit/s

95th percentile per-packet one-way delay: 145.329 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 261.79 Mbit/s

95th percentile per-packet one-way delay: 147.177 ms

Loss rate: 1.75%

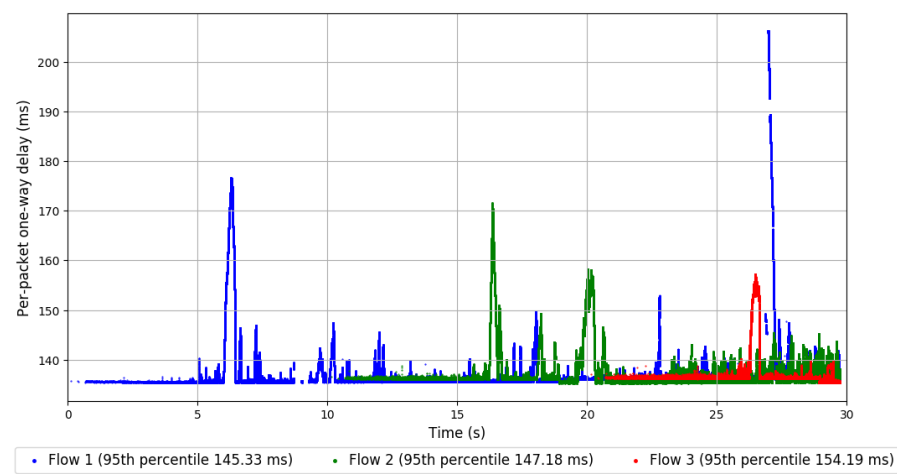
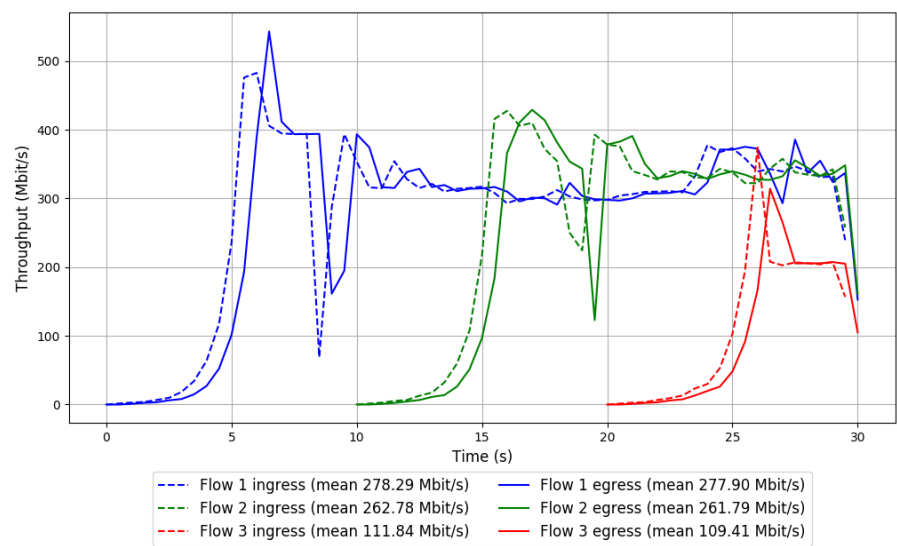
-- Flow 3:

Average throughput: 109.41 Mbit/s

95th percentile per-packet one-way delay: 154.193 ms

Loss rate: 4.88%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-19 20:26:11

End at: 2018-07-19 20:26:41

Local clock offset: -0.21 ms

Remote clock offset: 6.41 ms

Below is generated by plot.py at 2018-07-20 00:26:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.09 Mbit/s

95th percentile per-packet one-way delay: 161.973 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 219.35 Mbit/s

95th percentile per-packet one-way delay: 193.016 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 108.46 Mbit/s

95th percentile per-packet one-way delay: 158.131 ms

Loss rate: 1.87%

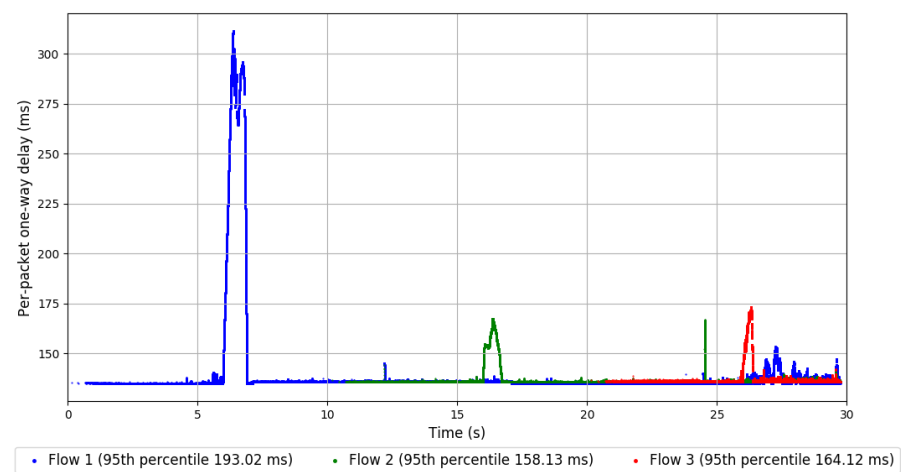
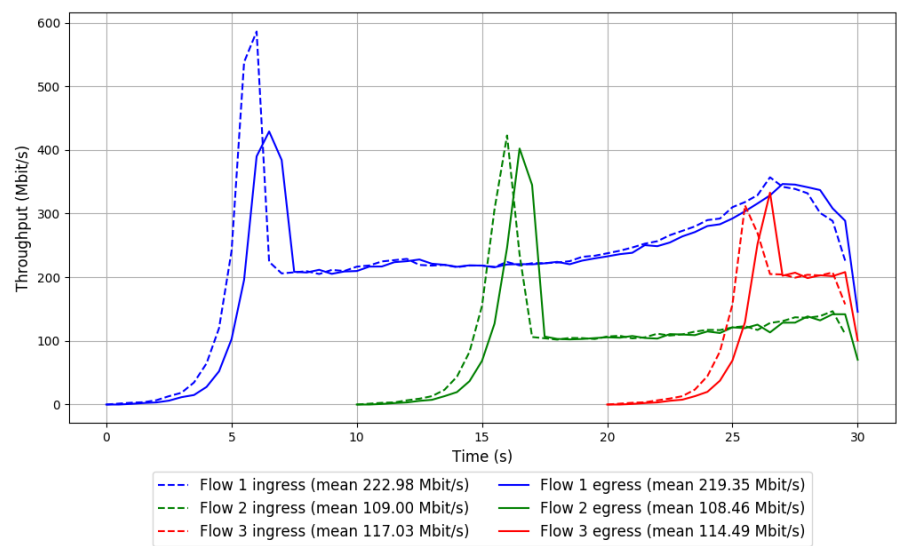
-- Flow 3:

Average throughput: 114.49 Mbit/s

95th percentile per-packet one-way delay: 164.124 ms

Loss rate: 4.87%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-19 20:53:09

End at: 2018-07-19 20:53:39

Local clock offset: 0.195 ms

Remote clock offset: 3.209 ms

Below is generated by plot.py at 2018-07-20 00:26:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.93 Mbit/s

95th percentile per-packet one-way delay: 205.380 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 141.97 Mbit/s

95th percentile per-packet one-way delay: 259.892 ms

Loss rate: 3.14%

-- Flow 2:

Average throughput: 198.98 Mbit/s

95th percentile per-packet one-way delay: 141.054 ms

Loss rate: 1.55%

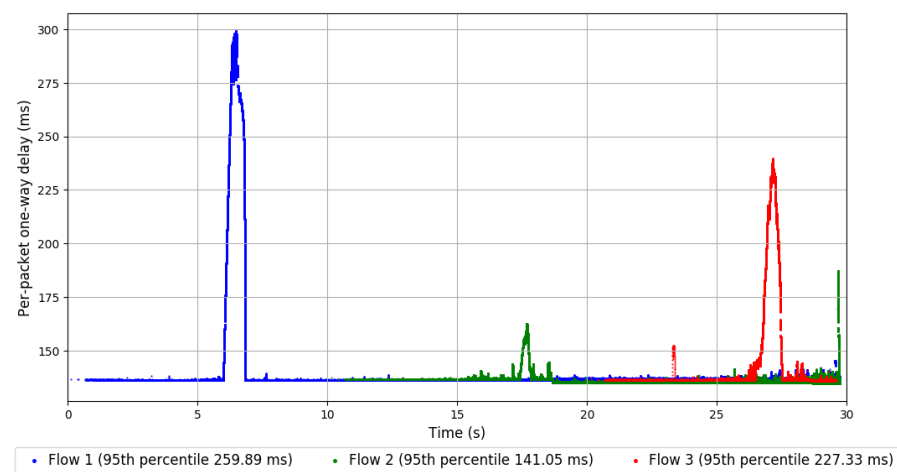
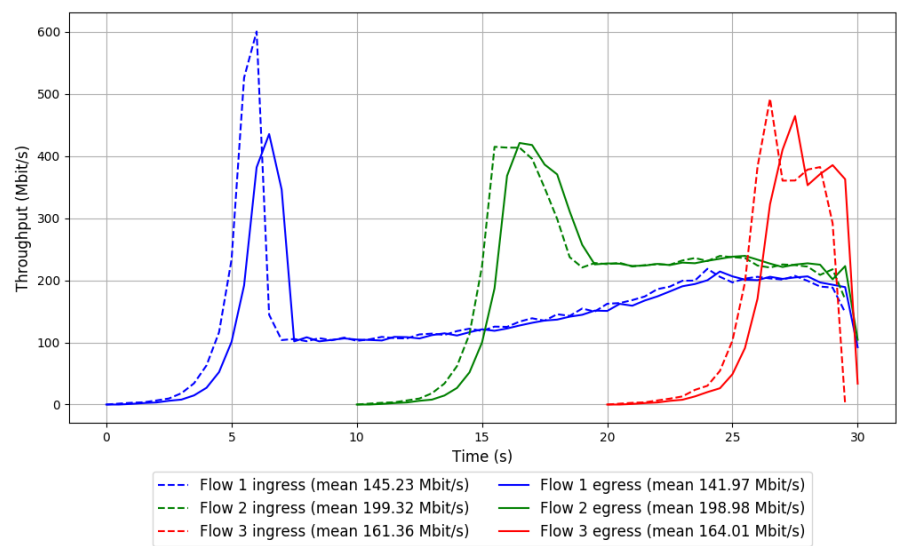
-- Flow 3:

Average throughput: 164.01 Mbit/s

95th percentile per-packet one-way delay: 227.332 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-19 21:19:56

End at: 2018-07-19 21:20:26

Local clock offset: 0.157 ms

Remote clock offset: 2.207 ms

Below is generated by plot.py at 2018-07-20 00:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.21 Mbit/s

95th percentile per-packet one-way delay: 173.381 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 252.61 Mbit/s

95th percentile per-packet one-way delay: 194.053 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 186.22 Mbit/s

95th percentile per-packet one-way delay: 138.144 ms

Loss rate: 1.91%

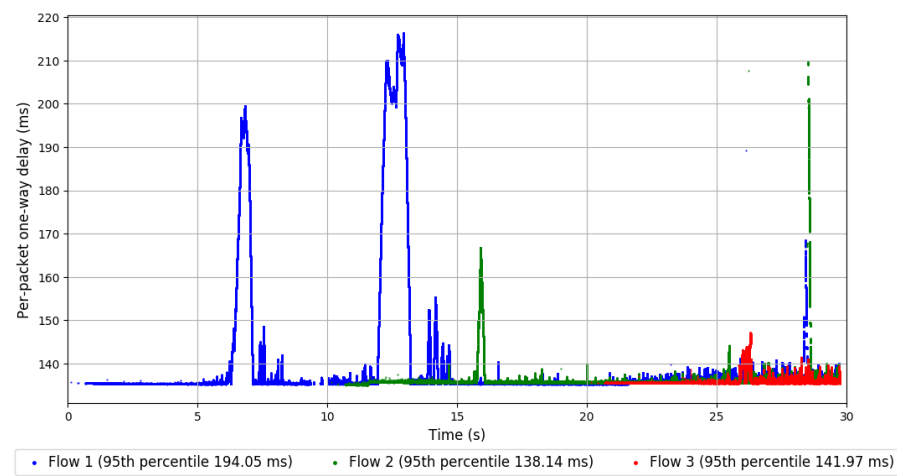
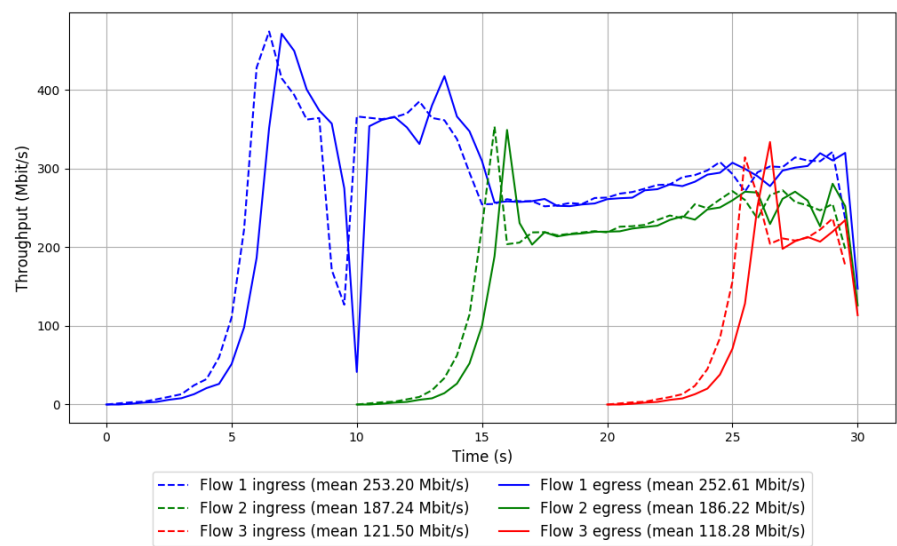
-- Flow 3:

Average throughput: 118.28 Mbit/s

95th percentile per-packet one-way delay: 141.968 ms

Loss rate: 5.34%

Run 10: Report of PCC-Vivace — Data Link

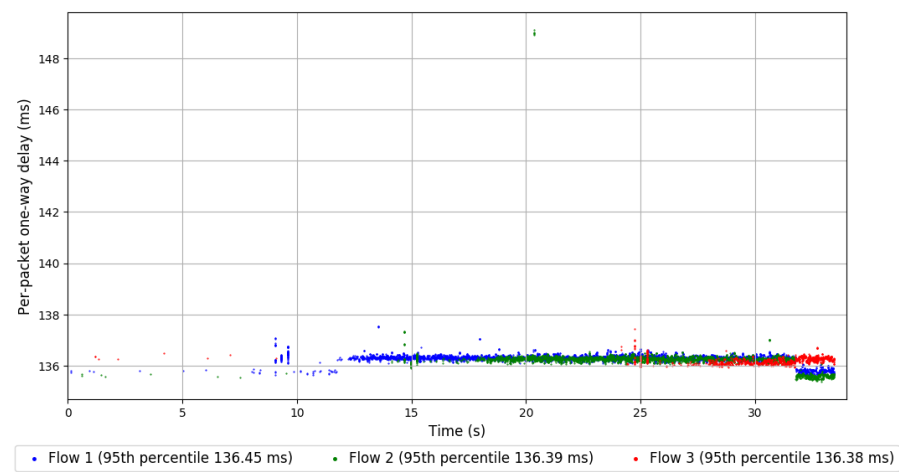
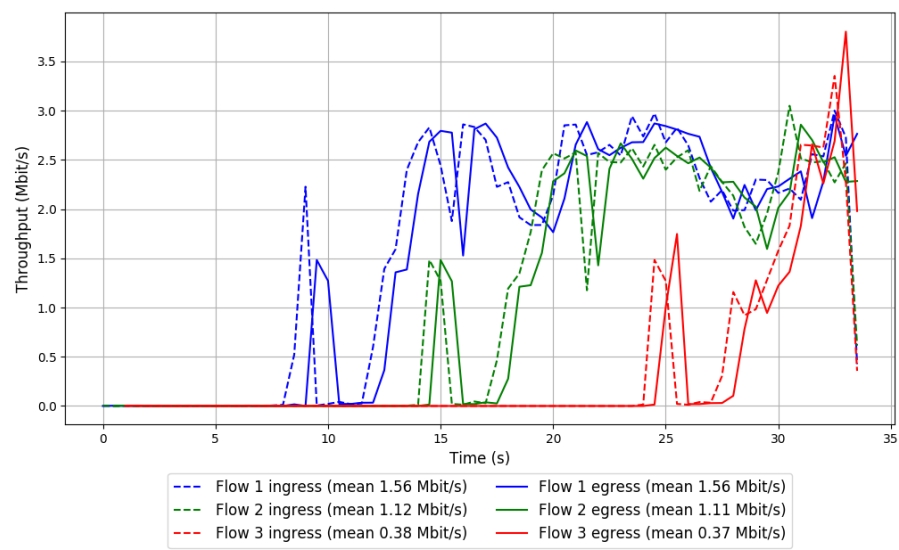


Run 1: Statistics of WebRTC media

Start at: 2018-07-19 17:14:30
End at: 2018-07-19 17:15:00
Local clock offset: -0.26 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-07-20 00:26:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 136.427 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 136.452 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 136.390 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.384 ms
Loss rate: 4.31%

Run 1: Report of WebRTC media — Data Link

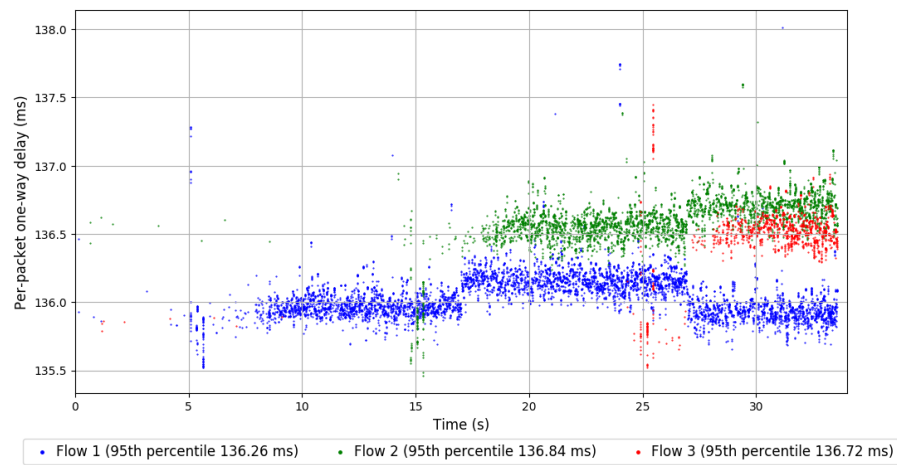
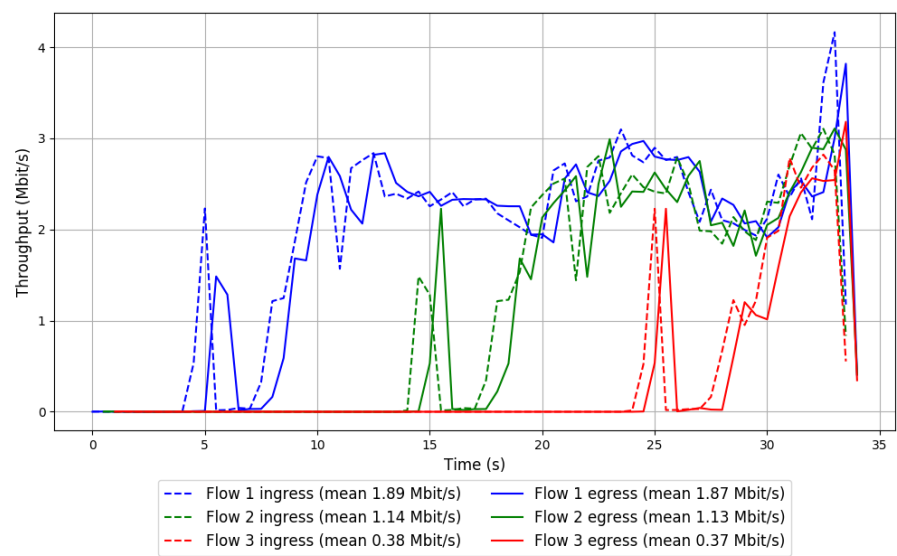


Run 2: Statistics of WebRTC media

Start at: 2018-07-19 17:41:05
End at: 2018-07-19 17:41:35
Local clock offset: -0.067 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-07-20 00:26:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 136.759 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 136.260 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 136.838 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.723 ms
Loss rate: 3.50%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-19 18:07:59

End at: 2018-07-19 18:08:29

Local clock offset: -0.026 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-07-20 00:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 135.995 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 135.718 ms

Loss rate: 2.18%

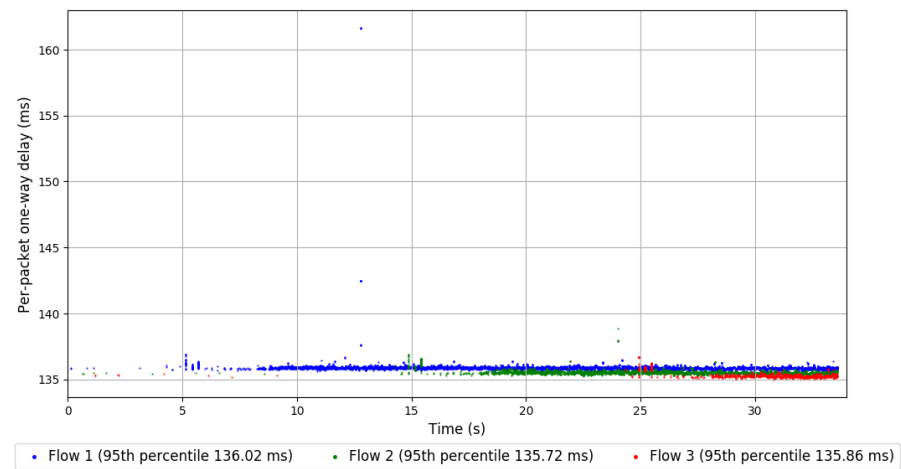
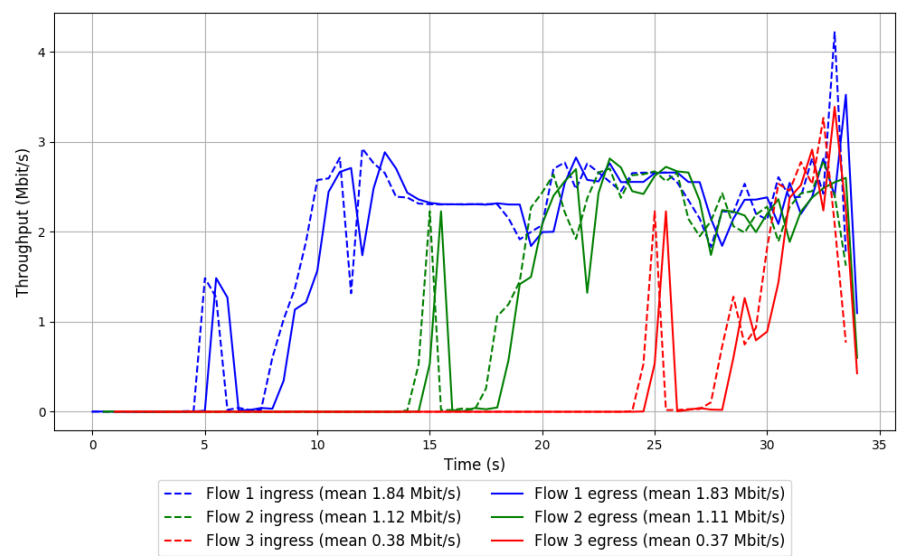
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.861 ms

Loss rate: 3.72%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-19 18:35:13

End at: 2018-07-19 18:35:43

Local clock offset: -0.04 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-07-20 00:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.26 Mbit/s

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

Loss rate: 1.56%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 136.287 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 136.130 ms

Loss rate: 2.37%

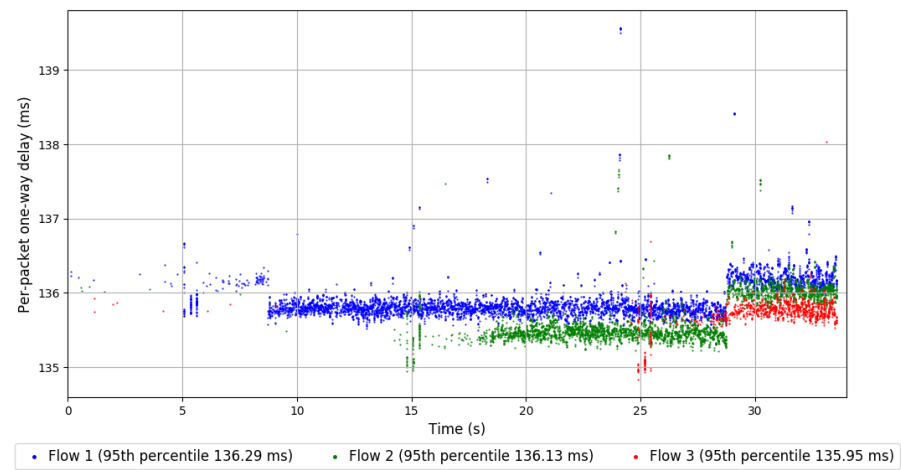
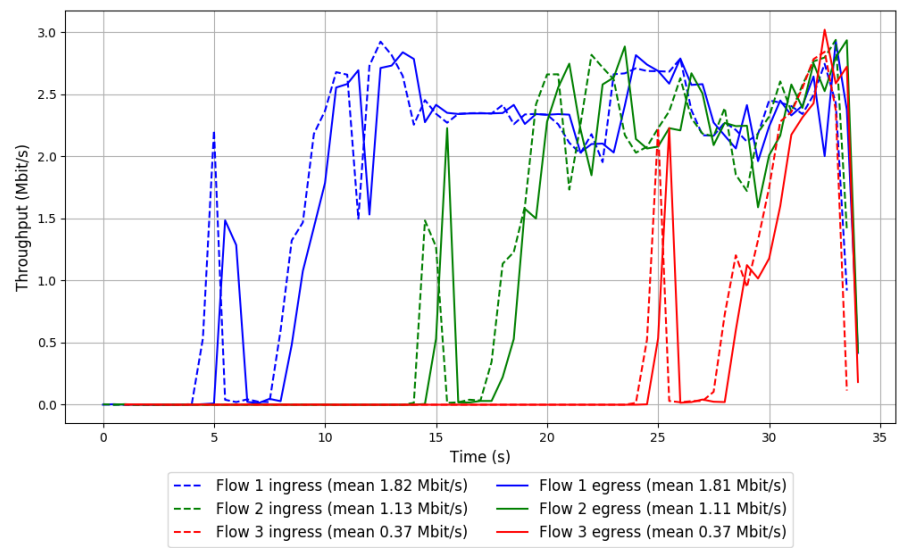
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.949 ms

Loss rate: 1.64%

Run 4: Report of WebRTC media — Data Link

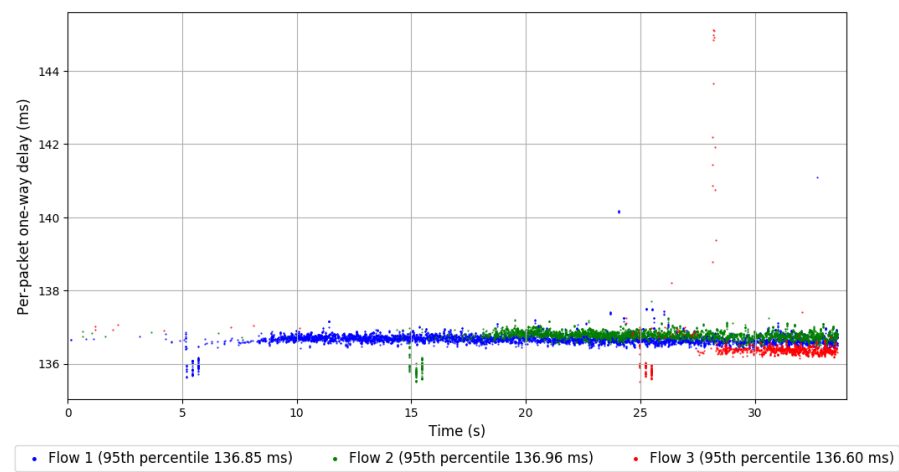
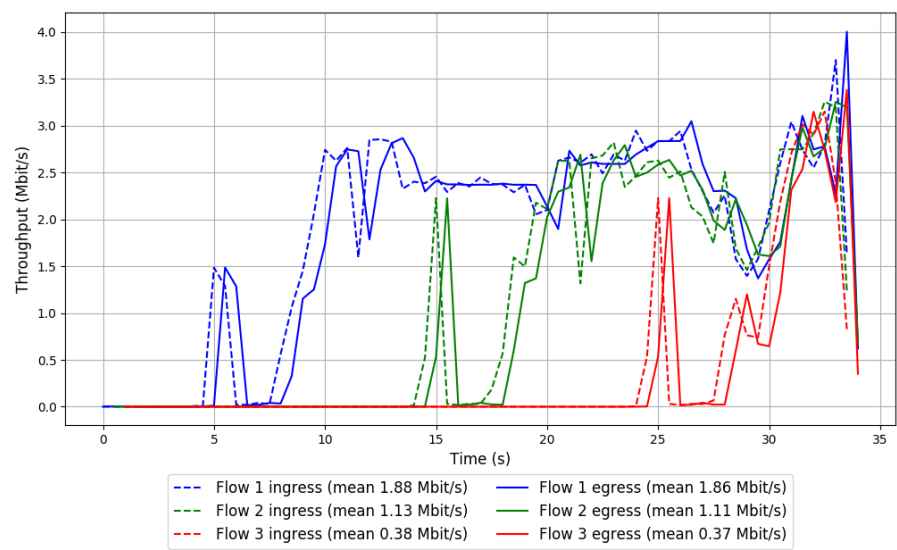


Run 5: Statistics of WebRTC media

Start at: 2018-07-19 19:02:04
End at: 2018-07-19 19:02:34
Local clock offset: -0.079 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2018-07-20 00:26:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 136.910 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 136.848 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 136.955 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.600 ms
Loss rate: 4.64%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-19 19:29:12

End at: 2018-07-19 19:29:42

Local clock offset: 0.04 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-07-20 00:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 136.453 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 136.061 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 136.529 ms

Loss rate: 2.07%

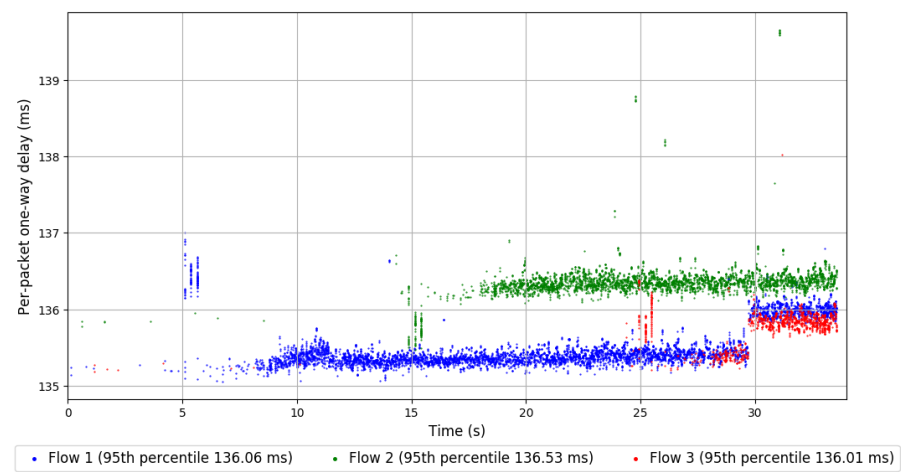
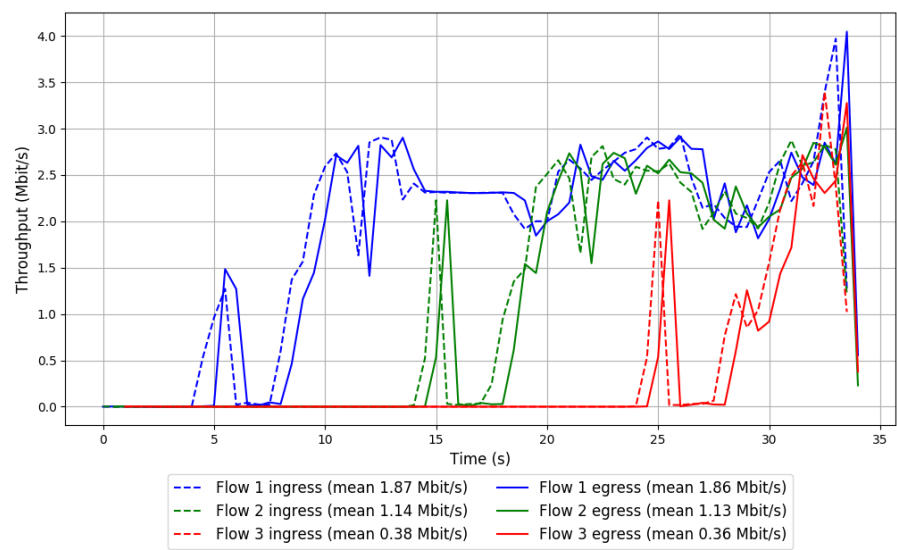
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.009 ms

Loss rate: 5.64%

Run 6: Report of WebRTC media — Data Link

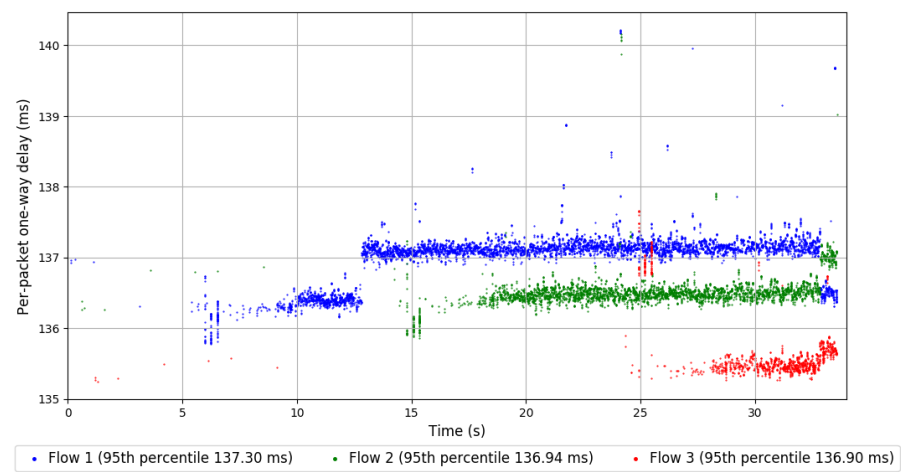
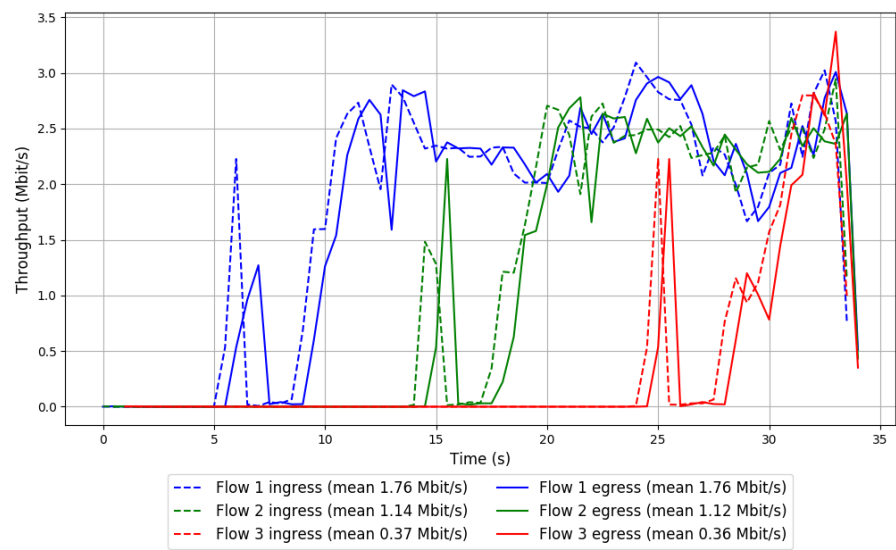


Run 7: Statistics of WebRTC media

Start at: 2018-07-19 19:56:09
End at: 2018-07-19 19:56:39
Local clock offset: -0.16 ms
Remote clock offset: 11.849 ms

Below is generated by plot.py at 2018-07-20 00:26:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 137.254 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 137.302 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 136.941 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.896 ms
Loss rate: 4.80%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-19 20:23:30

End at: 2018-07-19 20:24:00

Local clock offset: -0.129 ms

Remote clock offset: 6.682 ms

Below is generated by plot.py at 2018-07-20 00:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 136.411 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 136.213 ms

Loss rate: 1.34%

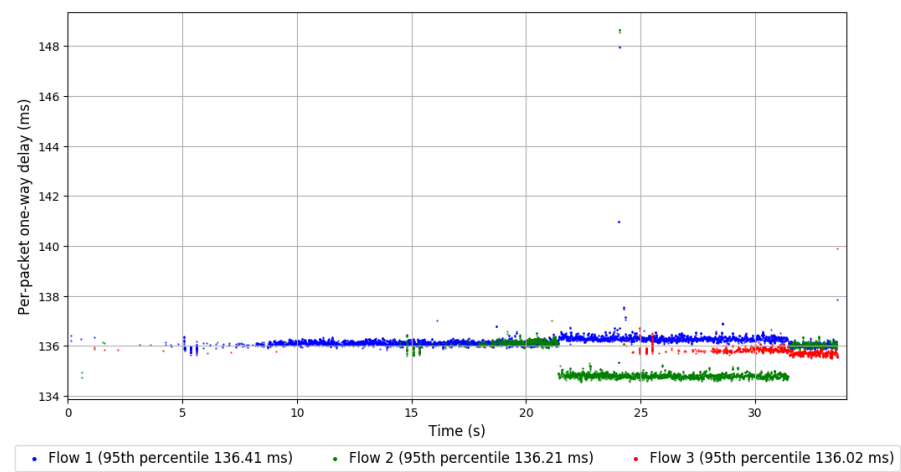
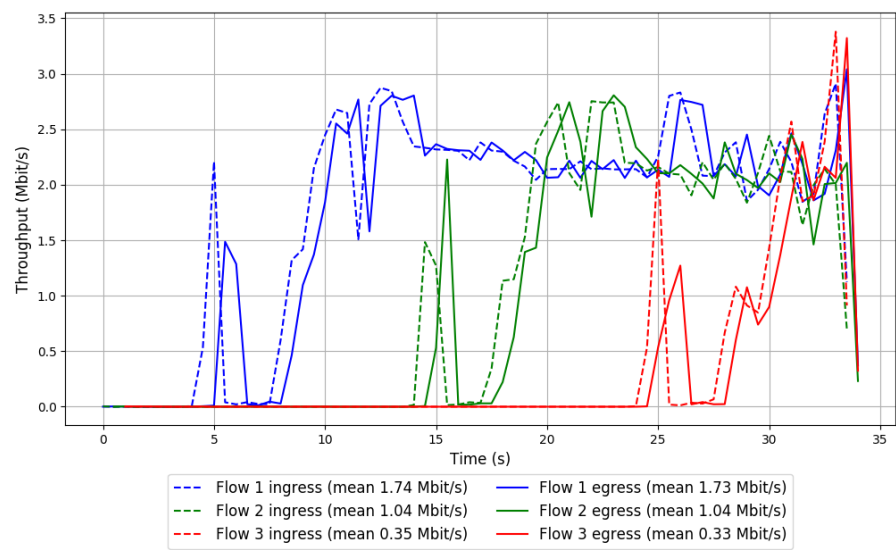
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.021 ms

Loss rate: 6.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-19 20:50:29

End at: 2018-07-19 20:50:59

Local clock offset: -0.111 ms

Remote clock offset: 3.425 ms

Below is generated by plot.py at 2018-07-20 00:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 136.704 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 136.736 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 2.08%

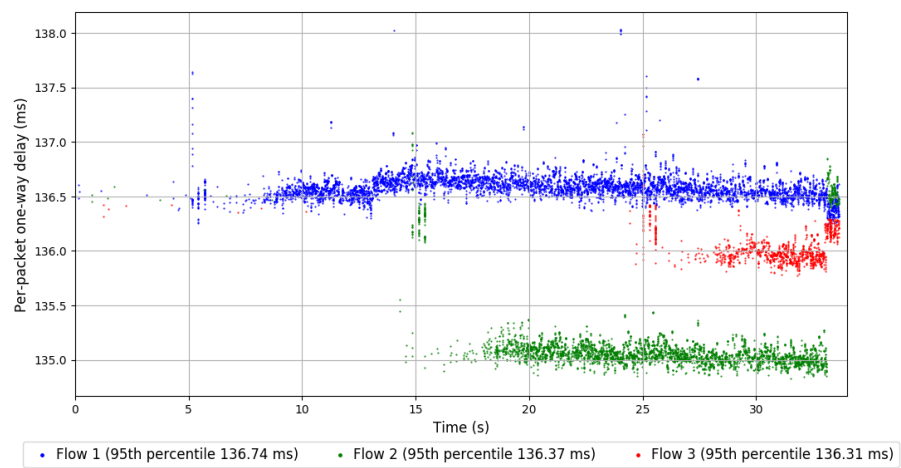
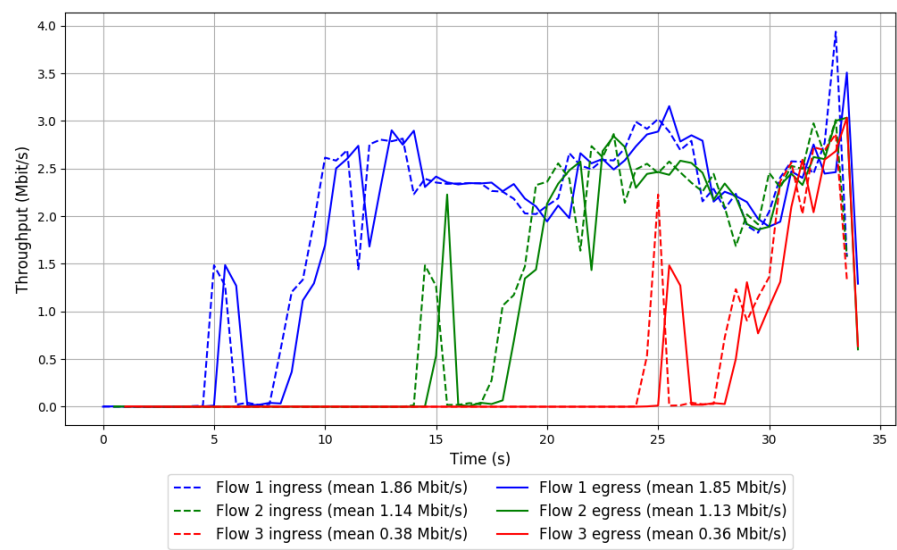
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.310 ms

Loss rate: 5.39%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-19 21:17:16

End at: 2018-07-19 21:17:46

Local clock offset: 0.005 ms

Remote clock offset: 2.517 ms

Below is generated by plot.py at 2018-07-20 00:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 1.86%

-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.421 ms

Loss rate: 3.62%

Run 10: Report of WebRTC media — Data Link

