

Pantheon Report

Generated at 2018-06-19 05:23:26 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

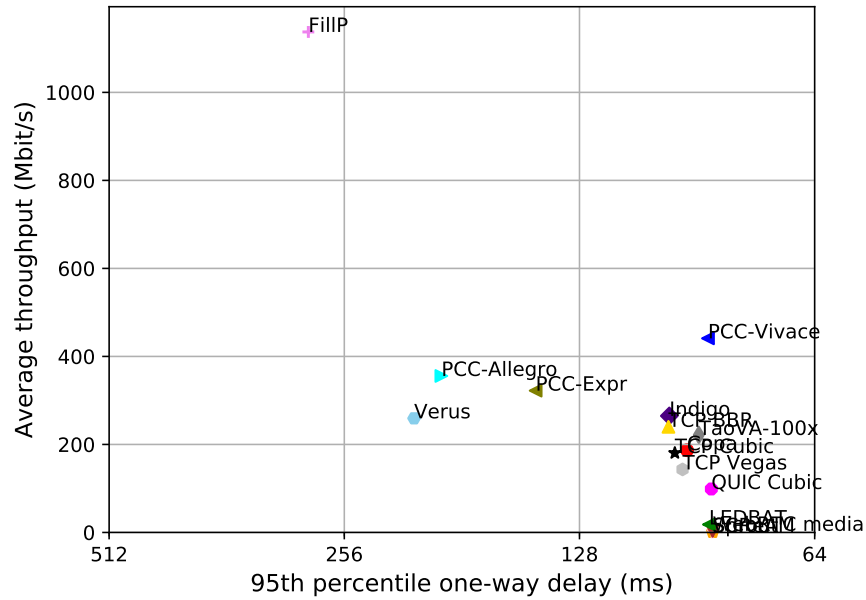
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

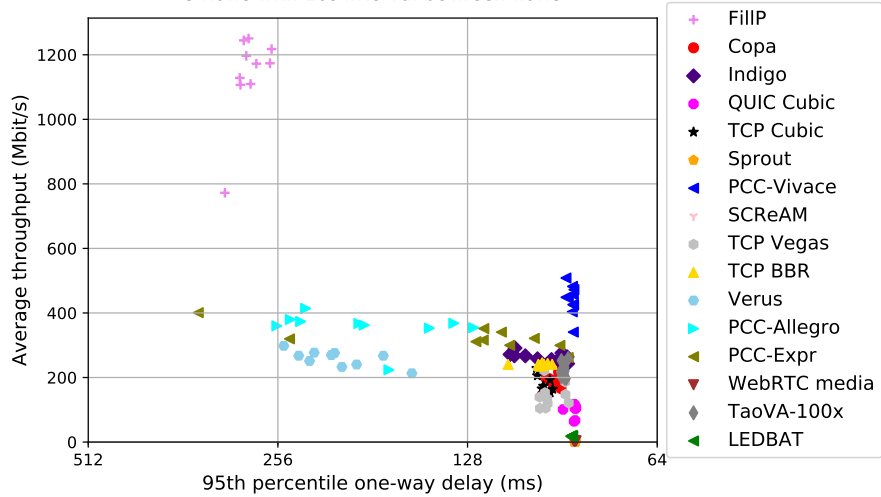
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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 Iowa 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 Iowa to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



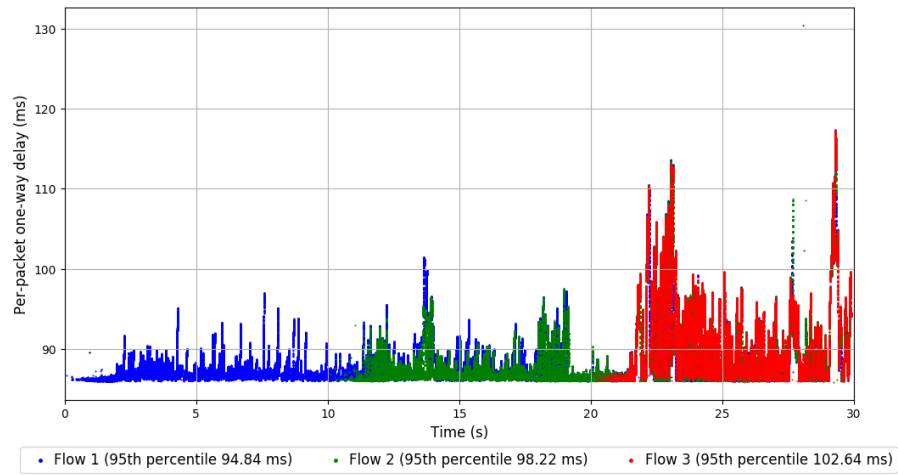
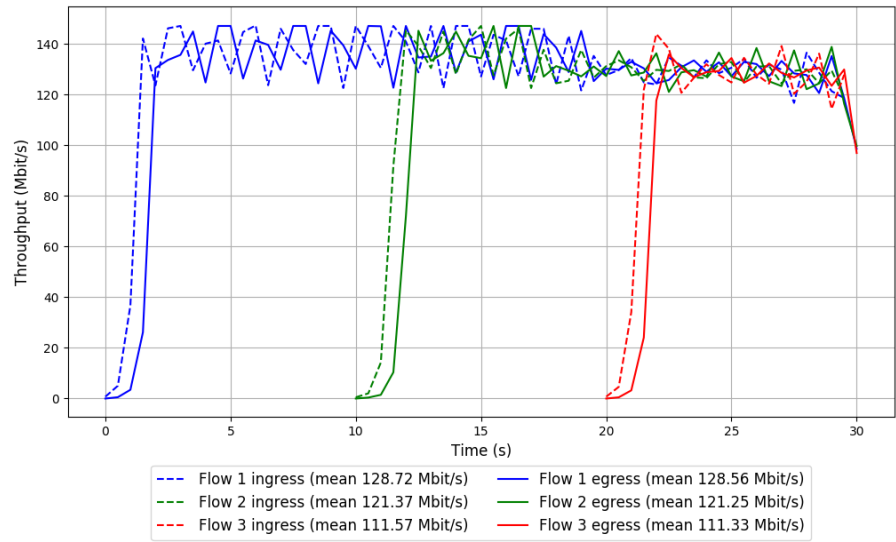
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	124.01	119.09	112.55	96.23	99.22	101.27	0.58	0.95	1.98
Copa	10	110.15	84.04	76.77	93.52	93.99	93.66	0.53	0.88	2.34
TCP Cubic	10	101.58	82.50	73.99	96.36	96.09	97.23	0.63	1.62	2.61
FillP	10	575.07	582.12	537.66	293.26	272.69	190.28	1.77	1.79	2.69
Indigo	10	143.08	128.66	111.73	95.38	98.70	104.42	0.53	0.89	1.94
LEDBAT	10	11.90	7.57	3.69	87.49	87.29	87.20	1.16	1.80	3.61
PCC-Allegro	10	325.82	34.00	22.41	191.78	192.24	174.43	1.06	1.25	2.18
PCC-Expr	10	227.50	122.05	42.37	145.11	133.14	136.48	1.26	1.39	2.78
QUIC Cubic	10	47.99	50.85	51.57	86.38	86.85	86.40	0.73	1.13	1.23
SCReAM	10	0.22	0.22	0.22	86.48	86.51	86.51	0.51	0.95	1.71
Sprout	10	0.27	0.29	0.35	86.40	86.43	86.48	0.52	1.05	1.45
TaoVA-100x	10	138.84	90.20	82.78	88.34	94.09	94.31	0.44	0.74	2.01
TCP Vegas	10	60.30	99.19	52.19	93.68	94.25	93.96	0.63	0.89	2.44
Verus	10	177.86	93.69	59.45	198.29	208.70	219.63	0.99	2.26	3.85
PCC-Vivace	10	252.58	219.22	132.40	87.33	94.05	87.43	0.56	0.97	2.55
WebRTC media	10	1.93	1.22	0.46	86.44	86.33	86.40	0.72	1.10	2.59

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 23:41:13
End at: 2018-06-18 23:41:43
Local clock offset: -0.159 ms
Remote clock offset: -0.601 ms

Below is generated by plot.py at 2018-06-19 03:44:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.66 Mbit/s
95th percentile per-packet one-way delay: 97.436 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 128.56 Mbit/s
95th percentile per-packet one-way delay: 94.836 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 121.25 Mbit/s
95th percentile per-packet one-way delay: 98.217 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 111.33 Mbit/s
95th percentile per-packet one-way delay: 102.641 ms
Loss rate: 1.95%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 00:04:32

End at: 2018-06-19 00:05:02

Local clock offset: -0.219 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-06-19 03:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.44 Mbit/s

95th percentile per-packet one-way delay: 110.341 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 123.70 Mbit/s

95th percentile per-packet one-way delay: 107.045 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 120.64 Mbit/s

95th percentile per-packet one-way delay: 115.196 ms

Loss rate: 0.99%

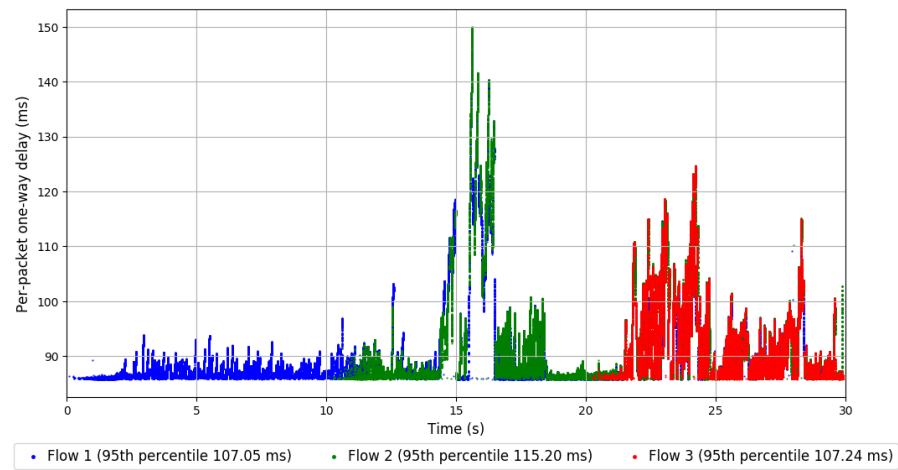
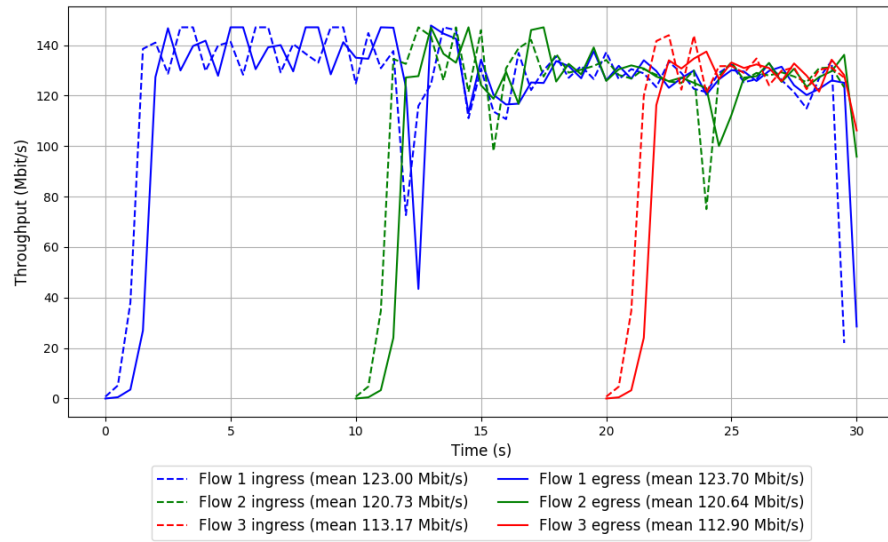
-- Flow 3:

Average throughput: 112.90 Mbit/s

95th percentile per-packet one-way delay: 107.239 ms

Loss rate: 1.97%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-19 00:27:31

End at: 2018-06-19 00:28:01

Local clock offset: 0.227 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2018-06-19 03:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.11 Mbit/s

95th percentile per-packet one-way delay: 98.145 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 122.09 Mbit/s

95th percentile per-packet one-way delay: 96.340 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 118.99 Mbit/s

95th percentile per-packet one-way delay: 98.347 ms

Loss rate: 1.00%

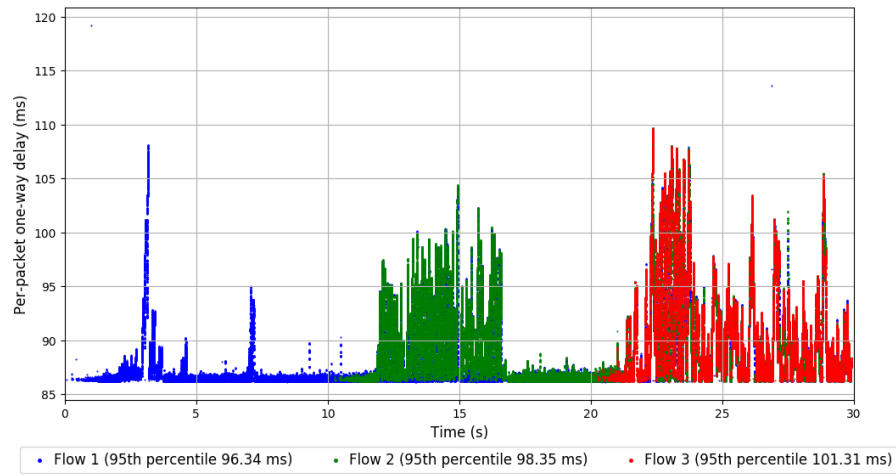
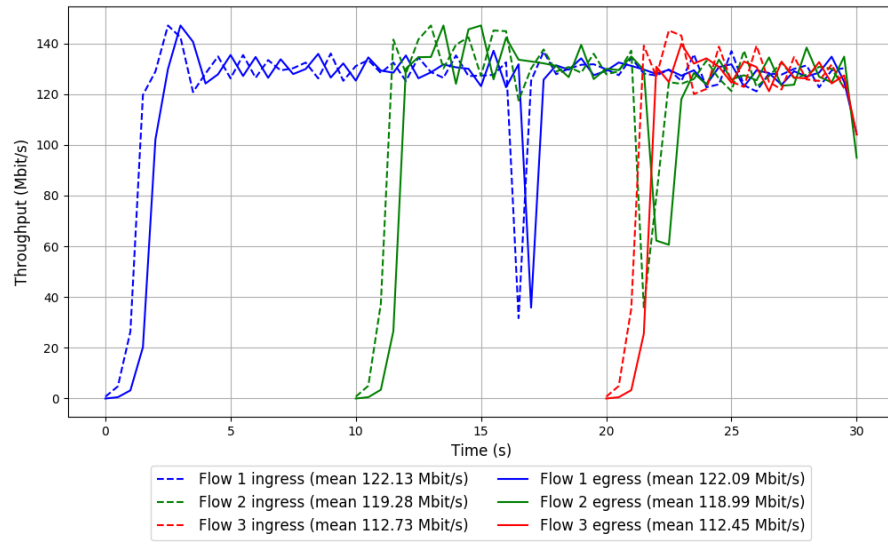
-- Flow 3:

Average throughput: 112.45 Mbit/s

95th percentile per-packet one-way delay: 101.308 ms

Loss rate: 1.99%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 00:50:33

End at: 2018-06-19 00:51:03

Local clock offset: -0.019 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2018-06-19 03:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.78 Mbit/s

95th percentile per-packet one-way delay: 93.951 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 125.12 Mbit/s

95th percentile per-packet one-way delay: 92.492 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 118.28 Mbit/s

95th percentile per-packet one-way delay: 93.879 ms

Loss rate: 0.97%

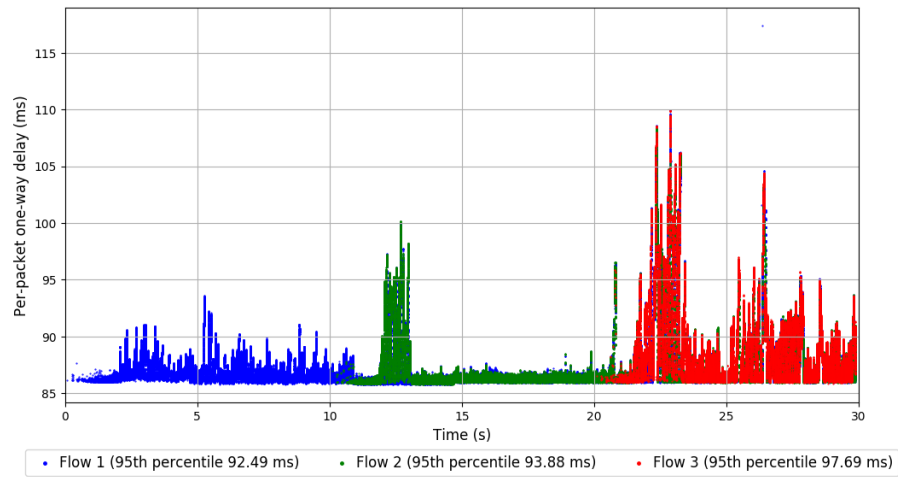
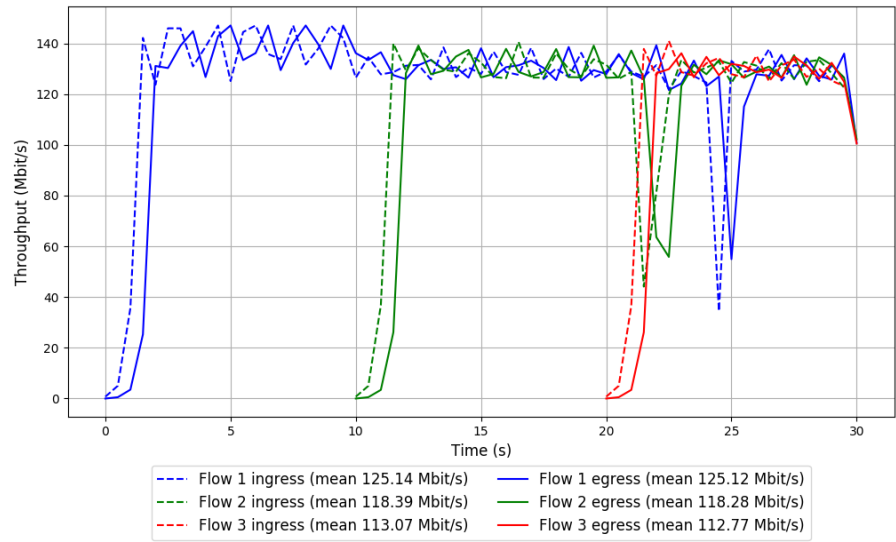
-- Flow 3:

Average throughput: 112.77 Mbit/s

95th percentile per-packet one-way delay: 97.689 ms

Loss rate: 2.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 01:14:02

End at: 2018-06-19 01:14:32

Local clock offset: -0.207 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-19 03:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 98.832 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 125.09 Mbit/s

95th percentile per-packet one-way delay: 96.403 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 118.11 Mbit/s

95th percentile per-packet one-way delay: 99.402 ms

Loss rate: 0.94%

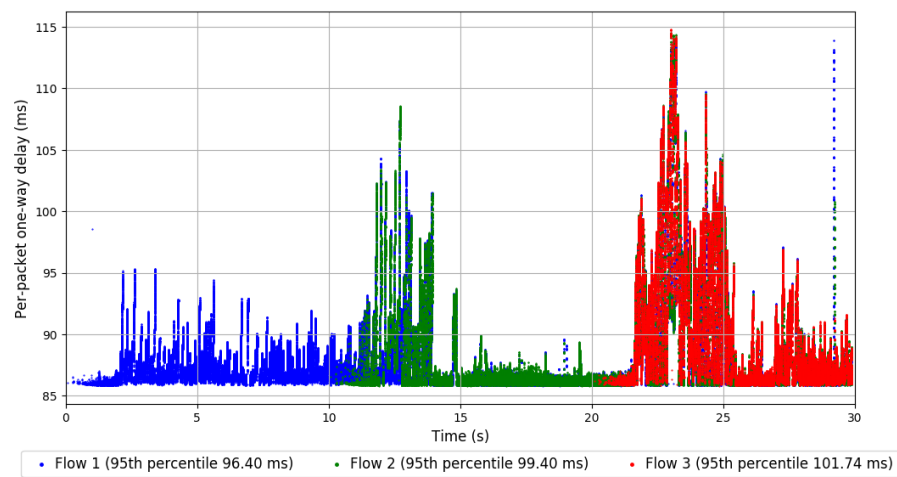
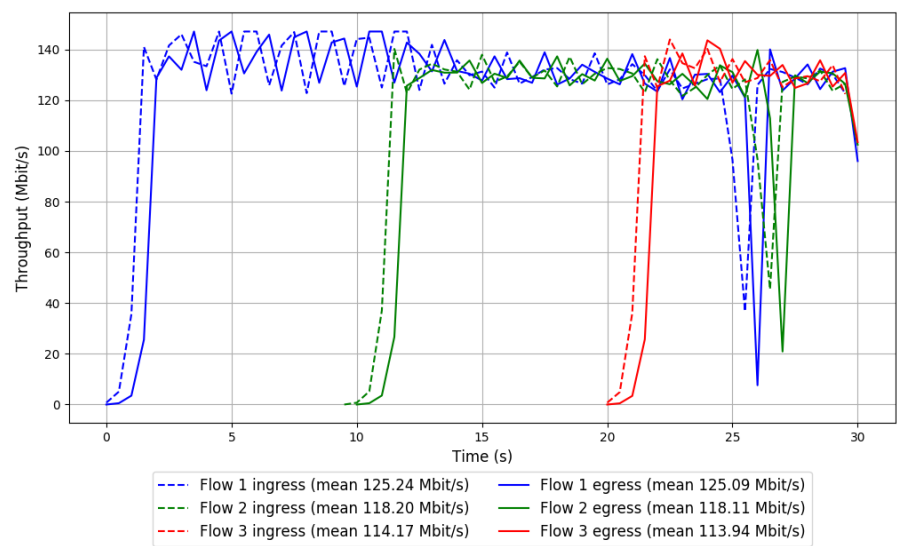
-- Flow 3:

Average throughput: 113.94 Mbit/s

95th percentile per-packet one-way delay: 101.743 ms

Loss rate: 1.92%

Run 5: Report of TCP BBR — Data Link

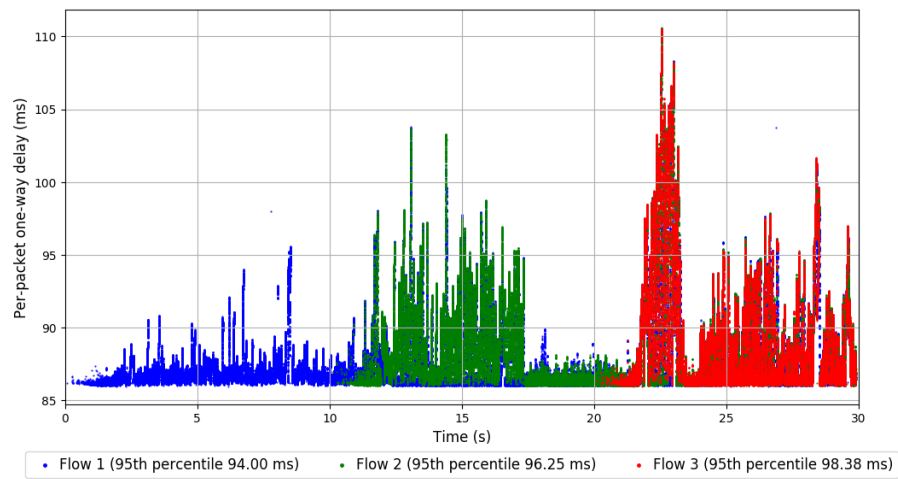
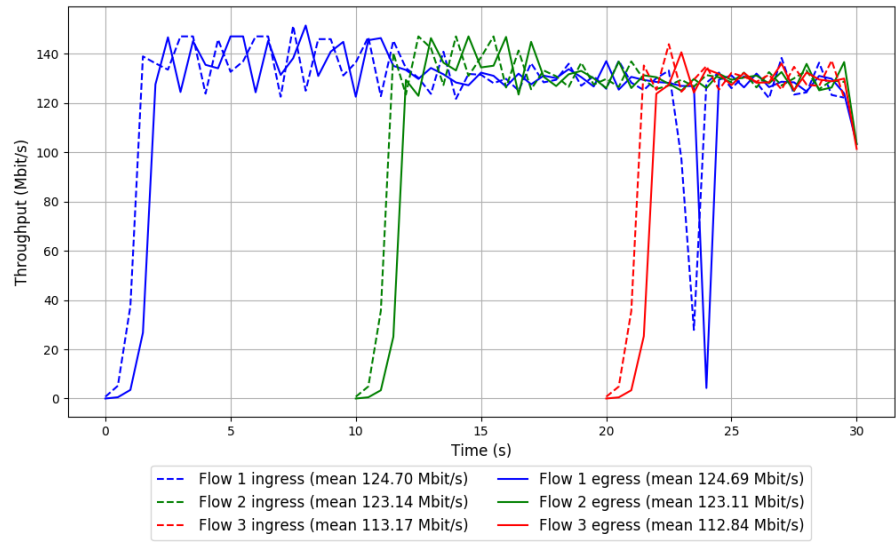


Run 6: Statistics of TCP BBR

Start at: 2018-06-19 01:37:11
End at: 2018-06-19 01:37:41
Local clock offset: 0.078 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-19 03:44:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.53 Mbit/s
95th percentile per-packet one-way delay: 95.500 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 124.69 Mbit/s
95th percentile per-packet one-way delay: 93.995 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 123.11 Mbit/s
95th percentile per-packet one-way delay: 96.247 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 112.84 Mbit/s
95th percentile per-packet one-way delay: 98.376 ms
Loss rate: 2.08%

Run 6: Report of TCP BBR — Data Link

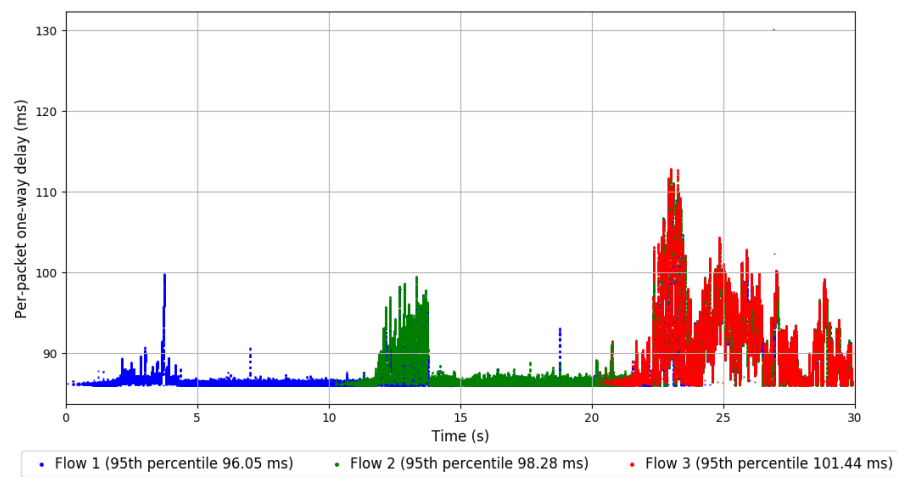
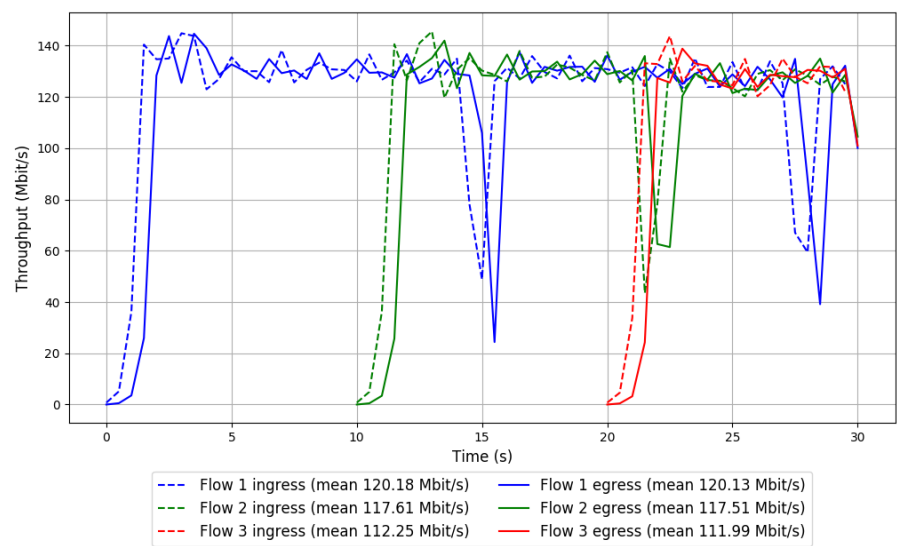


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 02:00:22
End at: 2018-06-19 02:00:52
Local clock offset: 0.014 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-06-19 03:44:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.89 Mbit/s
95th percentile per-packet one-way delay: 98.221 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 120.13 Mbit/s
95th percentile per-packet one-way delay: 96.052 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 117.51 Mbit/s
95th percentile per-packet one-way delay: 98.283 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 111.99 Mbit/s
95th percentile per-packet one-way delay: 101.440 ms
Loss rate: 1.99%

Run 7: Report of TCP BBR — Data Link

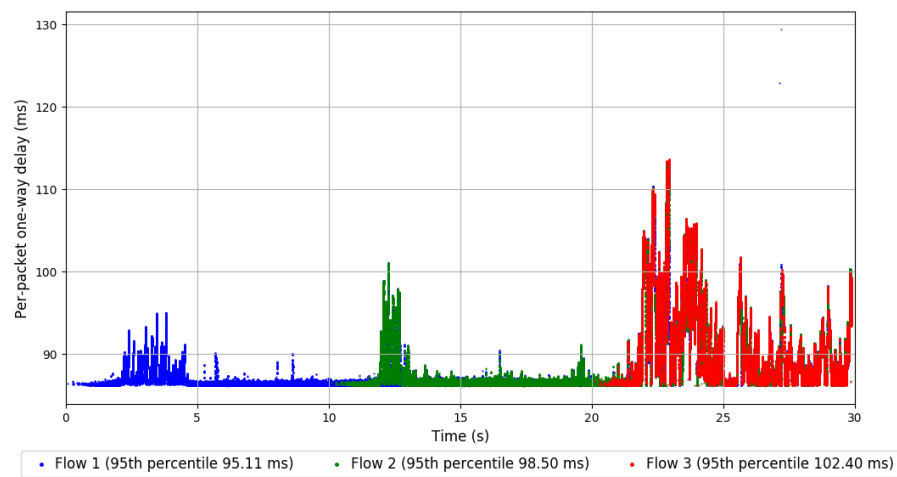
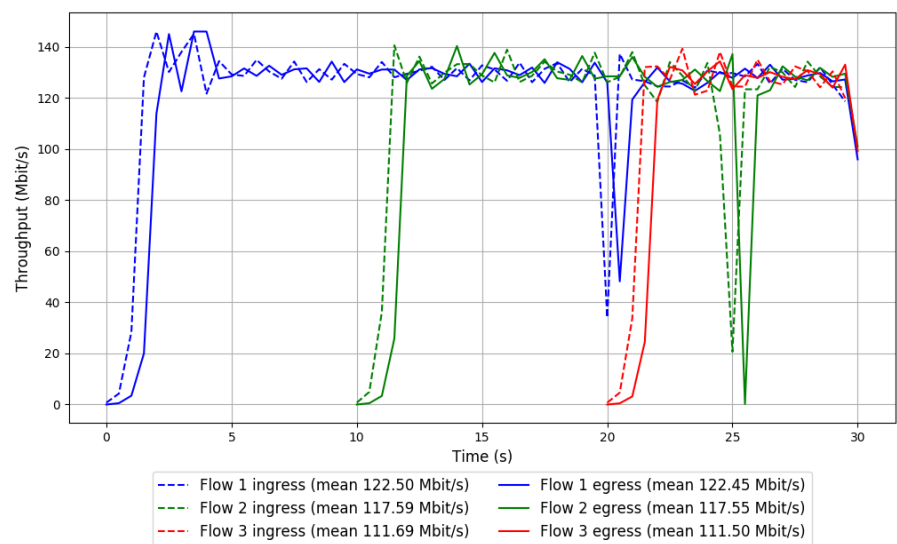


Run 8: Statistics of TCP BBR

Start at: 2018-06-19 02:23:34
End at: 2018-06-19 02:24:04
Local clock offset: 0.201 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2018-06-19 03:44:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 237.01 Mbit/s
95th percentile per-packet one-way delay: 98.397 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 122.45 Mbit/s
95th percentile per-packet one-way delay: 95.108 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 117.55 Mbit/s
95th percentile per-packet one-way delay: 98.501 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 111.50 Mbit/s
95th percentile per-packet one-way delay: 102.396 ms
Loss rate: 1.91%

Run 8: Report of TCP BBR — Data Link

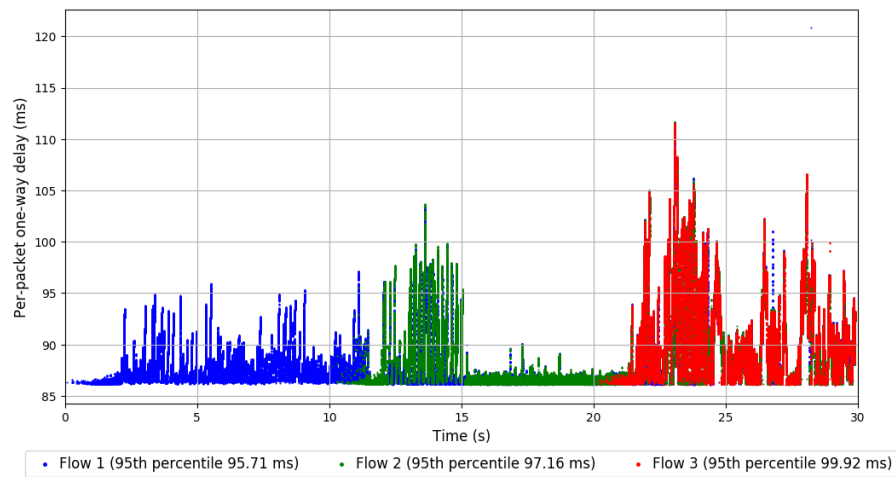
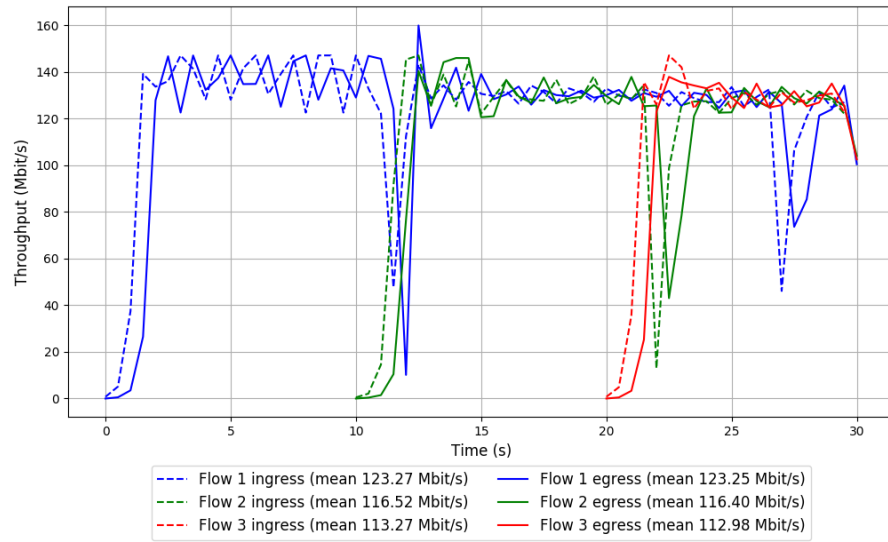


Run 9: Statistics of TCP BBR

Start at: 2018-06-19 02:46:36
End at: 2018-06-19 02:47:06
Local clock offset: 0.066 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-19 03:47:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 237.68 Mbit/s
95th percentile per-packet one-way delay: 97.152 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 123.25 Mbit/s
95th percentile per-packet one-way delay: 95.707 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 116.40 Mbit/s
95th percentile per-packet one-way delay: 97.164 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 112.98 Mbit/s
95th percentile per-packet one-way delay: 99.921 ms
Loss rate: 1.98%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 03:09:39

End at: 2018-06-19 03:10:09

Local clock offset: -0.063 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-19 03:47:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.19 Mbit/s

95th percentile per-packet one-way delay: 96.833 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 125.01 Mbit/s

95th percentile per-packet one-way delay: 94.333 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 119.09 Mbit/s

95th percentile per-packet one-way delay: 96.970 ms

Loss rate: 0.92%

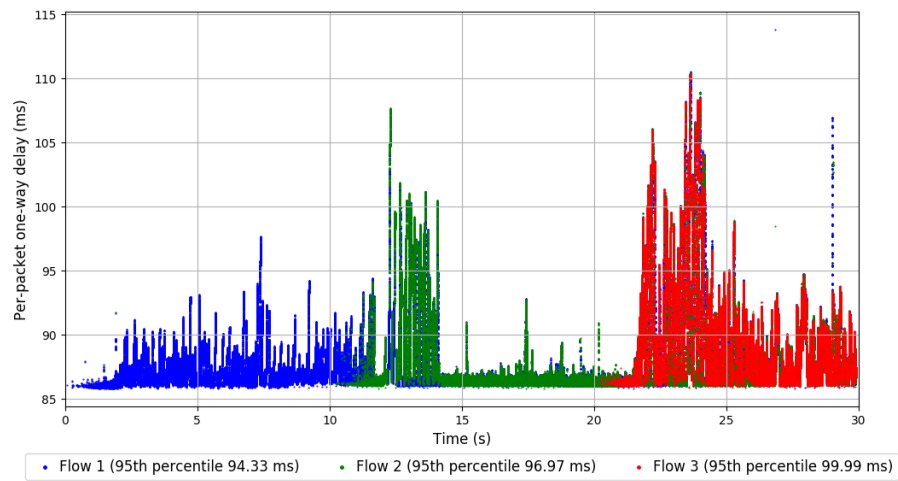
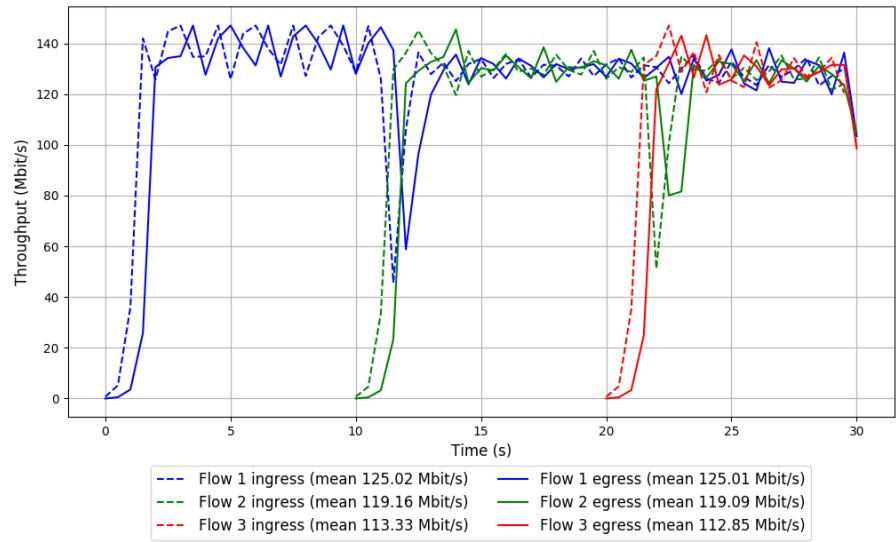
-- Flow 3:

Average throughput: 112.85 Mbit/s

95th percentile per-packet one-way delay: 99.988 ms

Loss rate: 2.02%

Run 10: Report of TCP BBR — Data Link

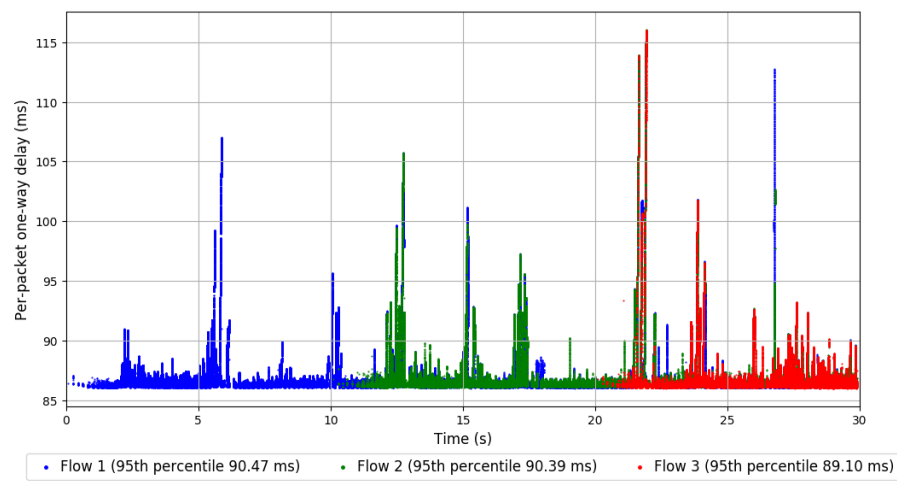
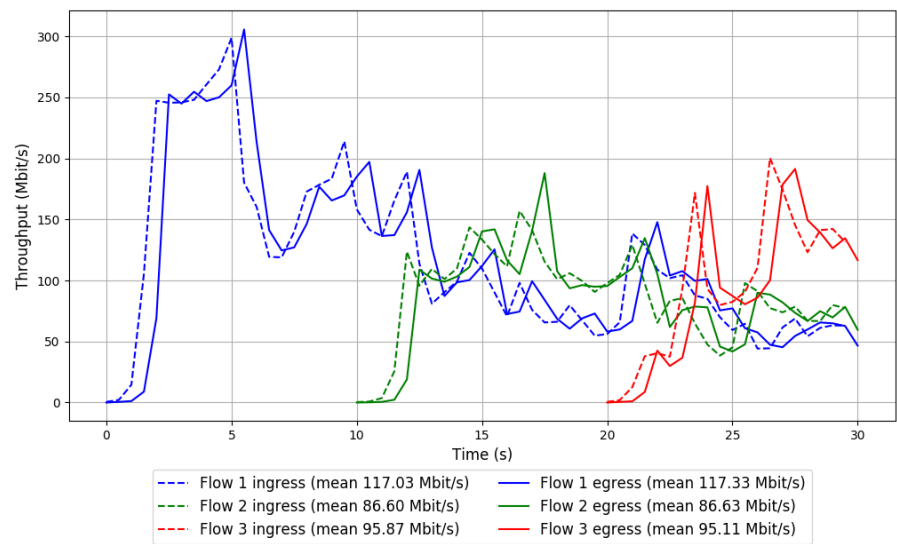


Run 1: Statistics of Copa

Start at: 2018-06-18 23:45:20
End at: 2018-06-18 23:45:50
Local clock offset: 0.039 ms
Remote clock offset: -0.297 ms

Below is generated by plot.py at 2018-06-19 03:50:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 206.06 Mbit/s
95th percentile per-packet one-way delay: 90.243 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 117.33 Mbit/s
95th percentile per-packet one-way delay: 90.472 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 90.388 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 89.098 ms
Loss rate: 2.51%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-19 00:08:38

End at: 2018-06-19 00:09:08

Local clock offset: -0.08 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-06-19 03:50:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.81 Mbit/s

95th percentile per-packet one-way delay: 90.974 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 121.65 Mbit/s

95th percentile per-packet one-way delay: 91.709 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 96.250 ms

Loss rate: 0.00%

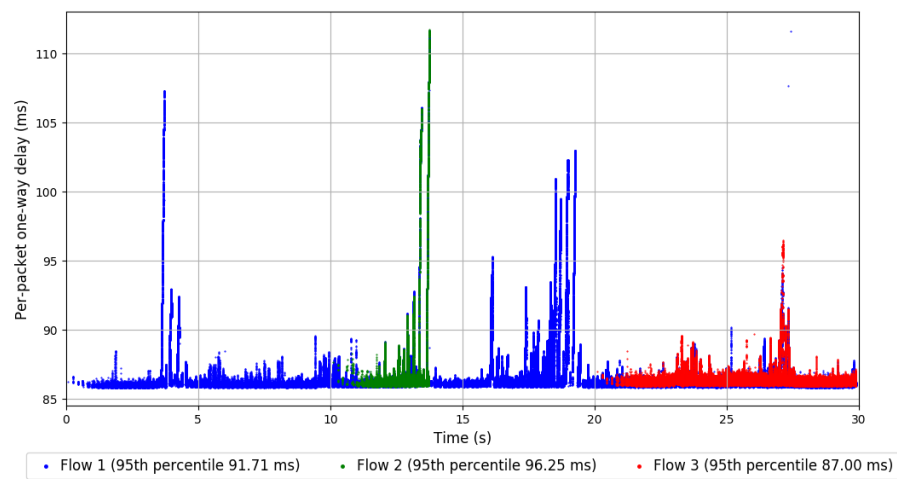
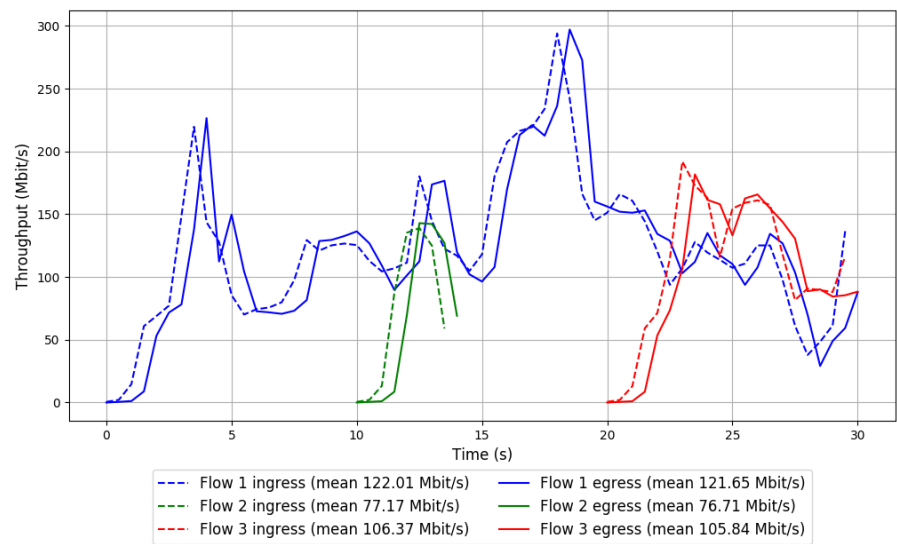
-- Flow 3:

Average throughput: 105.84 Mbit/s

95th percentile per-packet one-way delay: 86.996 ms

Loss rate: 2.26%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-19 00:31:36

End at: 2018-06-19 00:32:06

Local clock offset: 0.031 ms

Remote clock offset: 0.604 ms

Below is generated by plot.py at 2018-06-19 03:50:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.70 Mbit/s

95th percentile per-packet one-way delay: 93.299 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 112.88 Mbit/s

95th percentile per-packet one-way delay: 92.797 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 93.682 ms

Loss rate: 0.71%

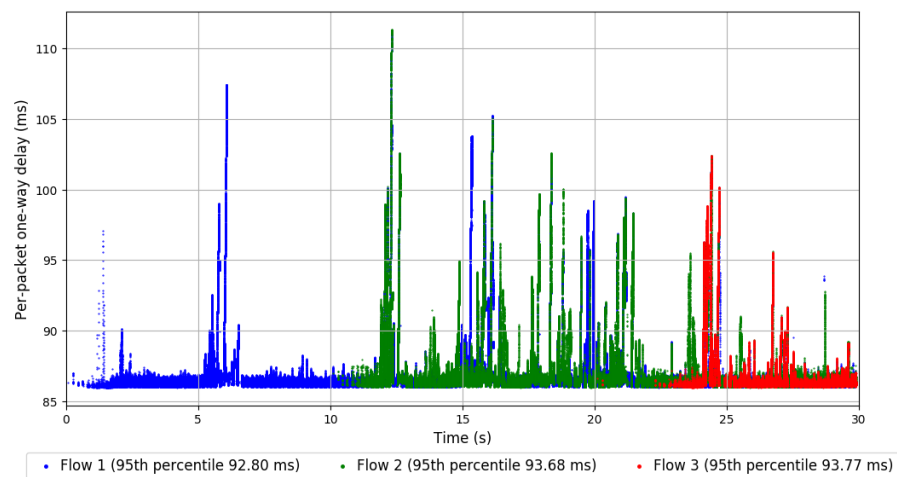
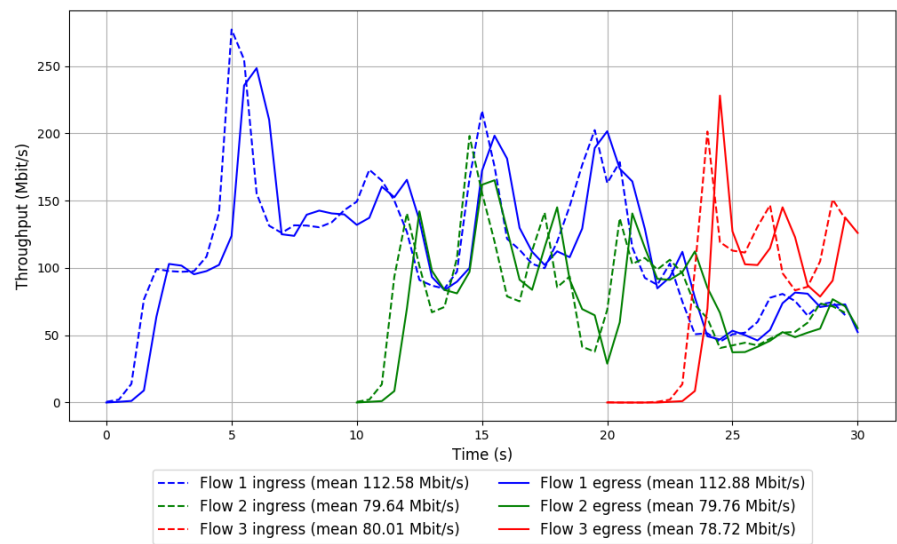
-- Flow 3:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 93.768 ms

Loss rate: 3.31%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-19 00:54:37

End at: 2018-06-19 00:55:07

Local clock offset: -0.006 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-06-19 03:50:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.65 Mbit/s

95th percentile per-packet one-way delay: 93.494 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 109.47 Mbit/s

95th percentile per-packet one-way delay: 92.146 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 94.759 ms

Loss rate: 1.50%

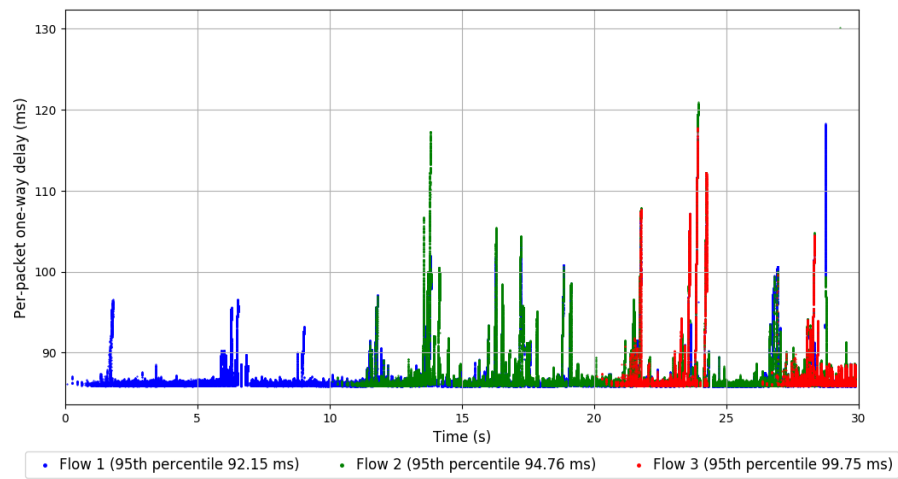
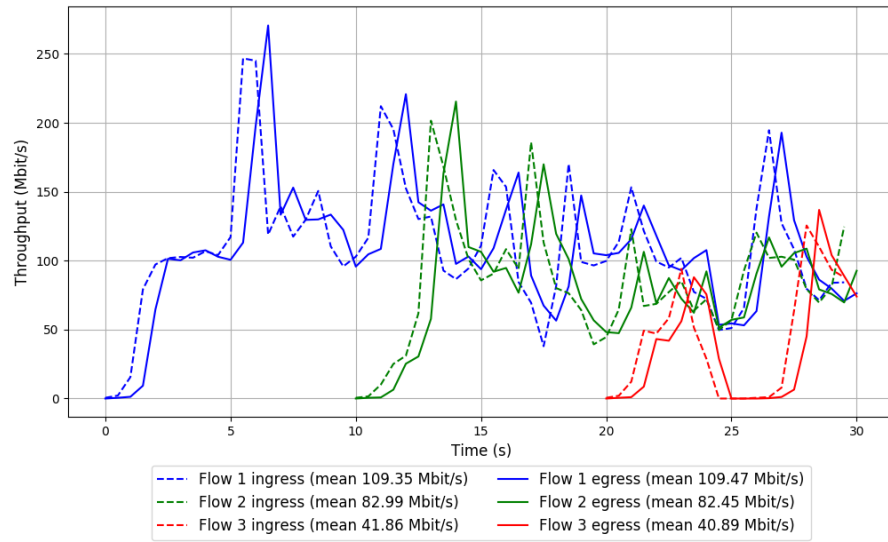
-- Flow 3:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 99.747 ms

Loss rate: 4.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-19 01:18:09

End at: 2018-06-19 01:18:39

Local clock offset: 0.159 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-06-19 03:50:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.81 Mbit/s

95th percentile per-packet one-way delay: 97.537 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 102.144 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 96.141 ms

Loss rate: 0.52%

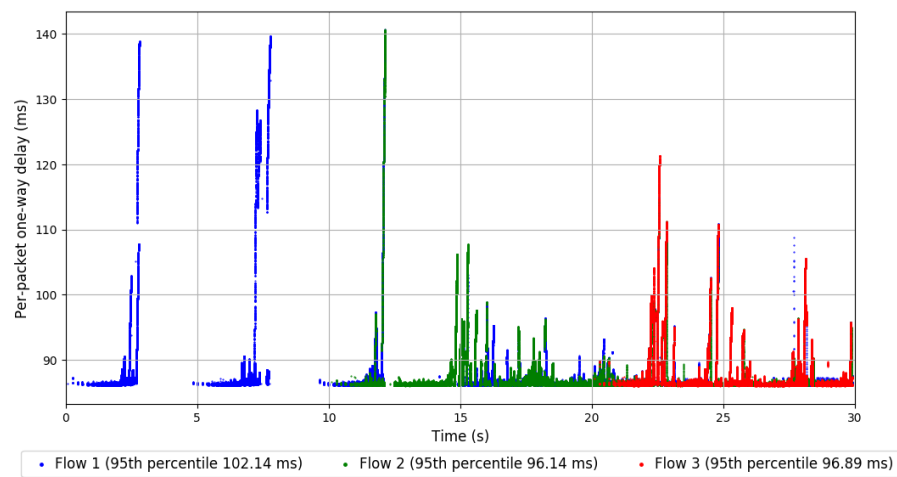
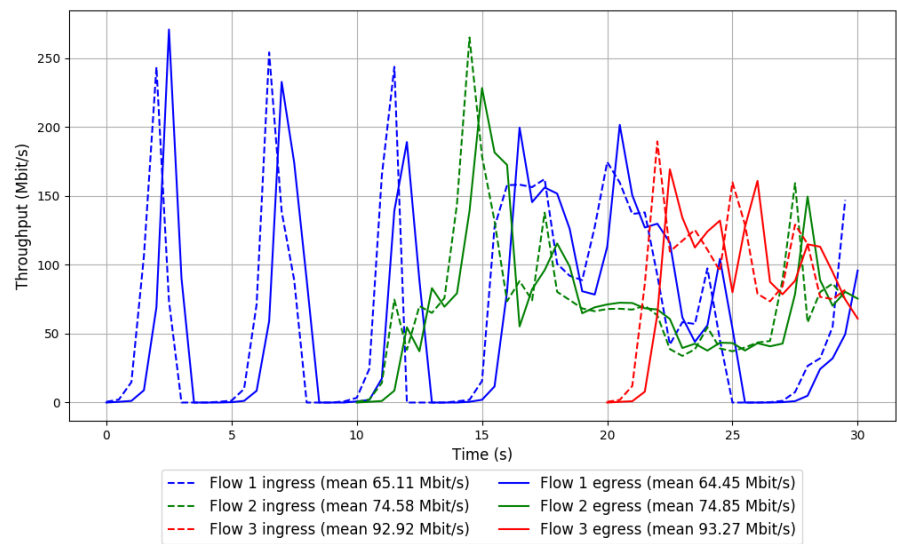
-- Flow 3:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 96.892 ms

Loss rate: 1.37%

Run 5: Report of Copa — Data Link

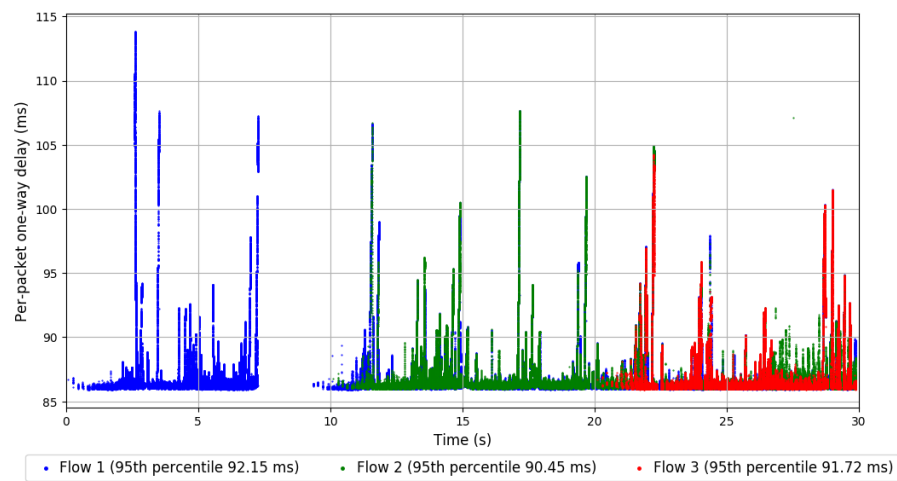
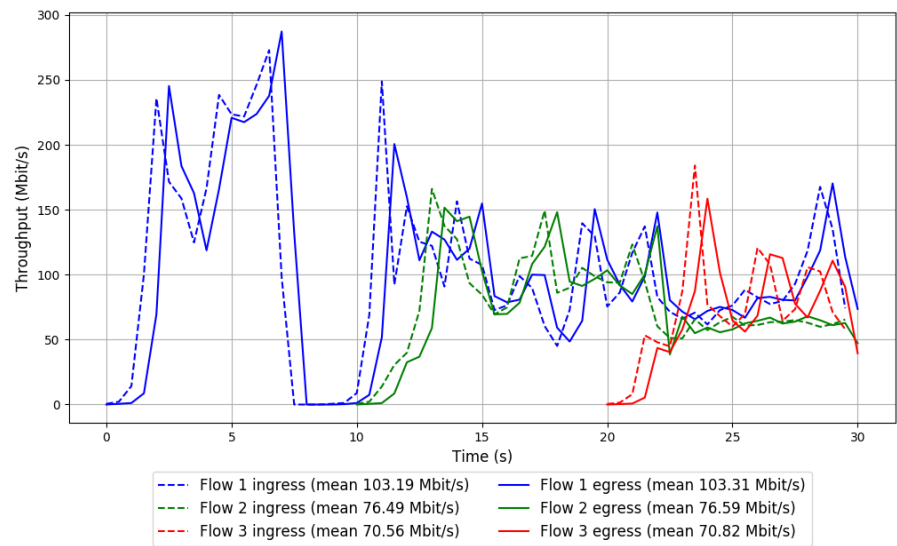


Run 6: Statistics of Copa

Start at: 2018-06-19 01:41:17
End at: 2018-06-19 01:41:47
Local clock offset: 0.042 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-19 03:50:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.37 Mbit/s
95th percentile per-packet one-way delay: 91.549 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 103.31 Mbit/s
95th percentile per-packet one-way delay: 92.154 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 90.448 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 70.82 Mbit/s
95th percentile per-packet one-way delay: 91.721 ms
Loss rate: 1.39%

Run 6: Report of Copa — Data Link

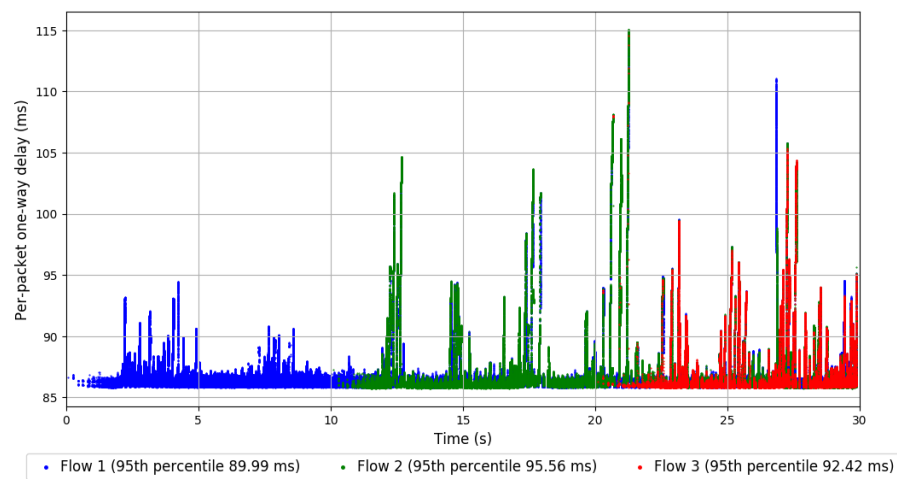
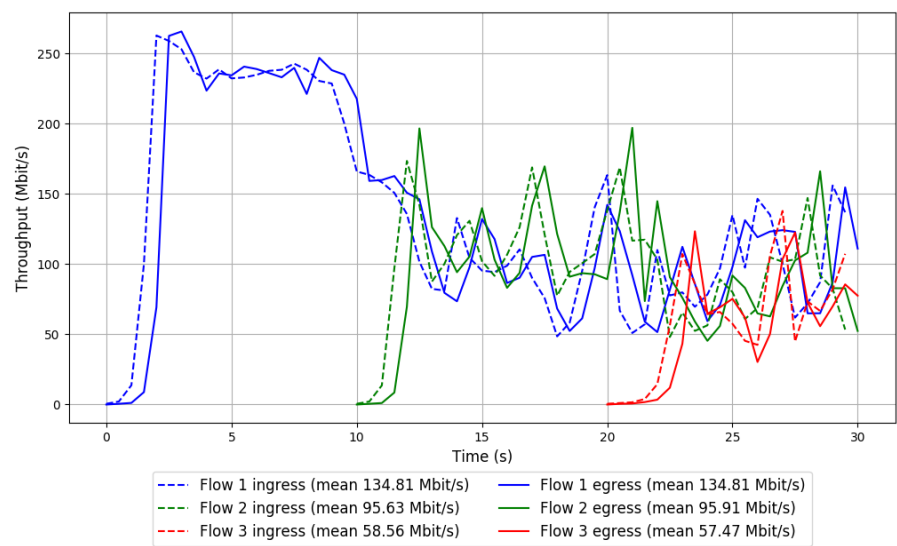


Run 7: Statistics of Copa

Start at: 2018-06-19 02:04:31
End at: 2018-06-19 02:05:01
Local clock offset: -0.151 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-06-19 03:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 217.38 Mbit/s
95th percentile per-packet one-way delay: 91.757 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 134.81 Mbit/s
95th percentile per-packet one-way delay: 89.987 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 95.564 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 57.47 Mbit/s
95th percentile per-packet one-way delay: 92.416 ms
Loss rate: 3.49%

Run 7: Report of Copa — Data Link

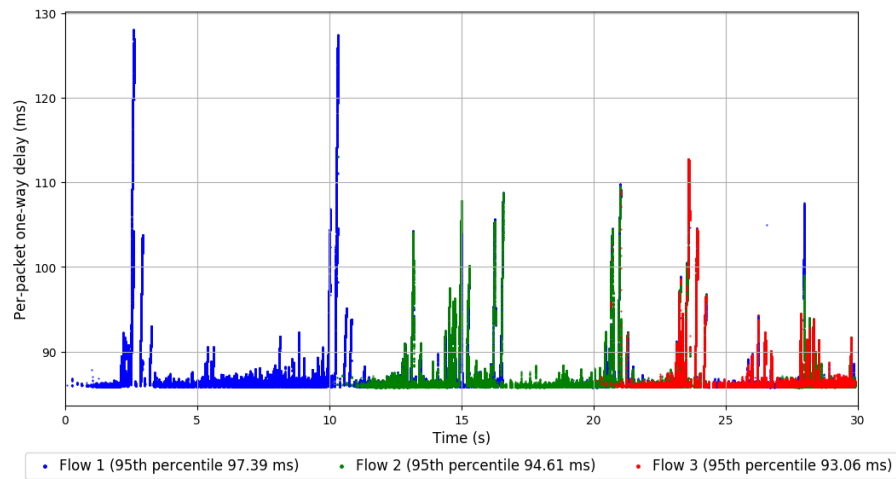
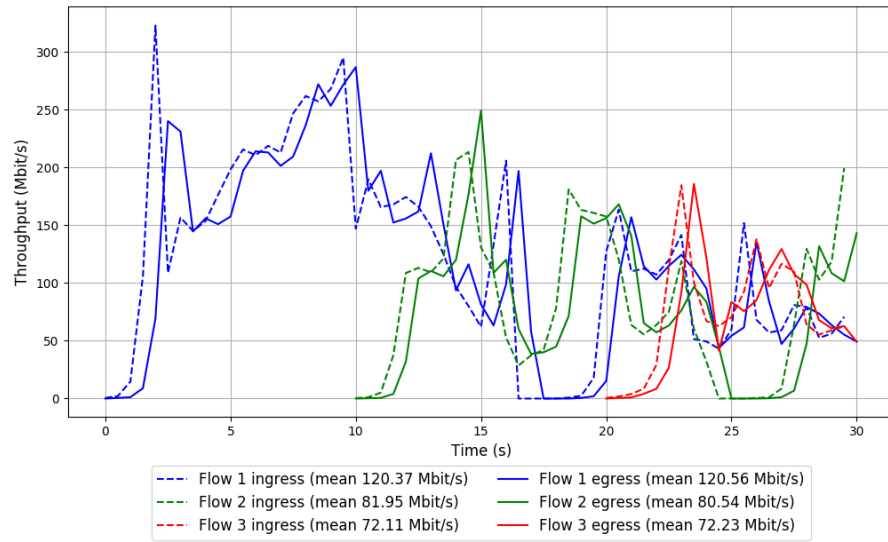


Run 8: Statistics of Copa

Start at: 2018-06-19 02:27:41
End at: 2018-06-19 02:28:11
Local clock offset: -0.096 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-06-19 03:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 197.76 Mbit/s
95th percentile per-packet one-way delay: 96.091 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 120.56 Mbit/s
95th percentile per-packet one-way delay: 97.392 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 80.54 Mbit/s
95th percentile per-packet one-way delay: 94.615 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 72.23 Mbit/s
95th percentile per-packet one-way delay: 93.062 ms
Loss rate: 1.59%

Run 8: Report of Copa — Data Link

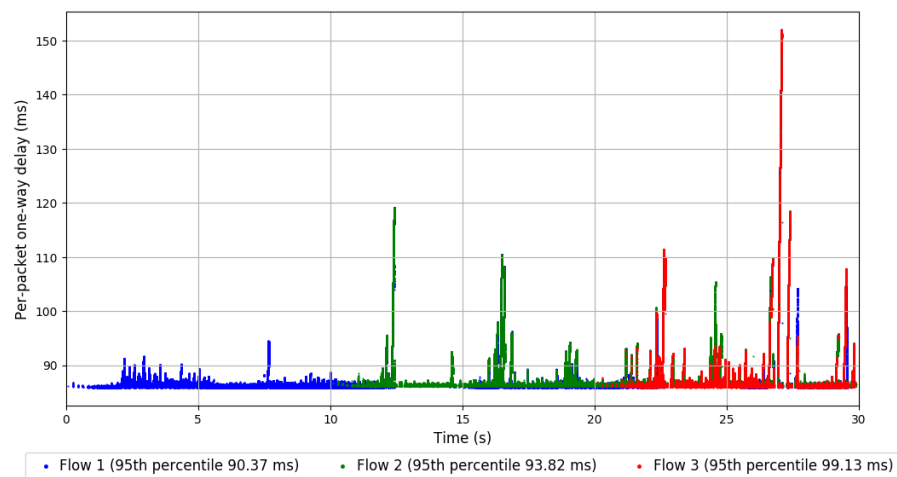
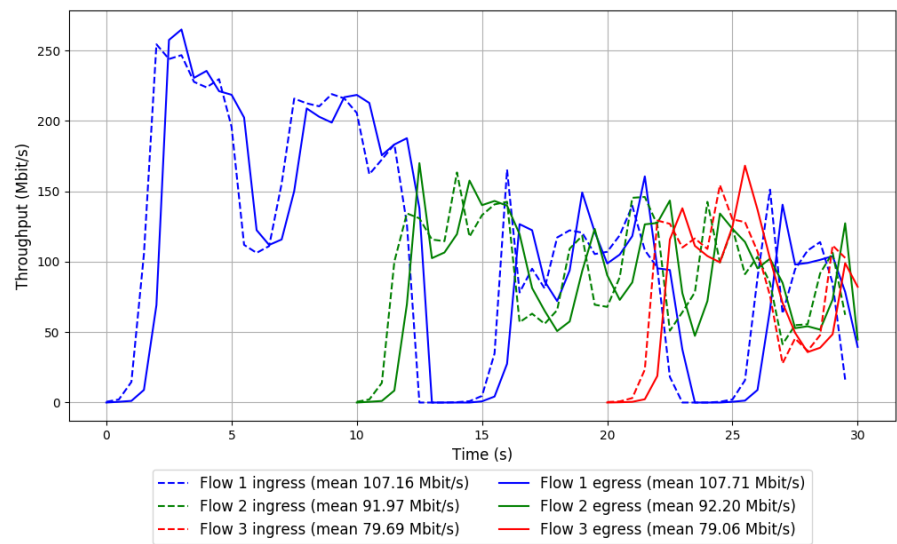


Run 9: Statistics of Copa

Start at: 2018-06-19 02:50:44
End at: 2018-06-19 02:51:14
Local clock offset: 0.079 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-19 03:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 194.62 Mbit/s
95th percentile per-packet one-way delay: 92.257 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 107.71 Mbit/s
95th percentile per-packet one-way delay: 90.370 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 93.821 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 99.130 ms
Loss rate: 2.52%

Run 9: Report of Copa — Data Link

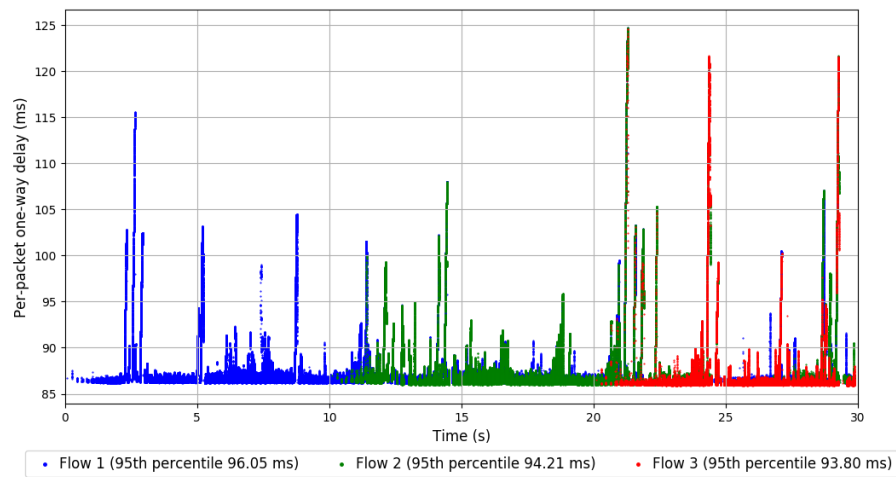
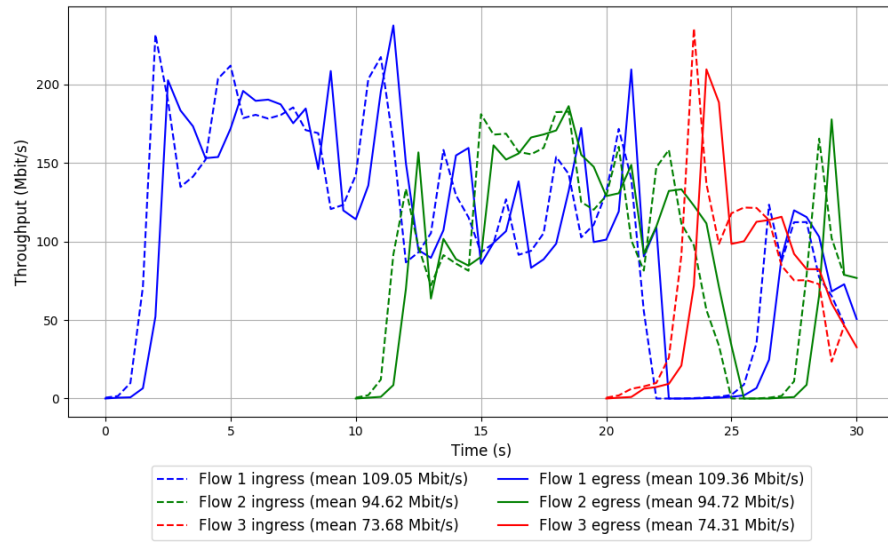


Run 10: Statistics of Copa

Start at: 2018-06-19 03:13:45
End at: 2018-06-19 03:14:15
Local clock offset: 0.117 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-19 03:55:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 196.62 Mbit/s
95th percentile per-packet one-way delay: 95.117 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 109.36 Mbit/s
95th percentile per-packet one-way delay: 96.045 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 94.207 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 74.31 Mbit/s
95th percentile per-packet one-way delay: 93.802 ms
Loss rate: 0.93%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 23:55:46

End at: 2018-06-18 23:56:16

Local clock offset: 0.041 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-06-19 03:55:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.16 Mbit/s

95th percentile per-packet one-way delay: 97.522 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 125.25 Mbit/s

95th percentile per-packet one-way delay: 97.555 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 95.065 ms

Loss rate: 3.95%

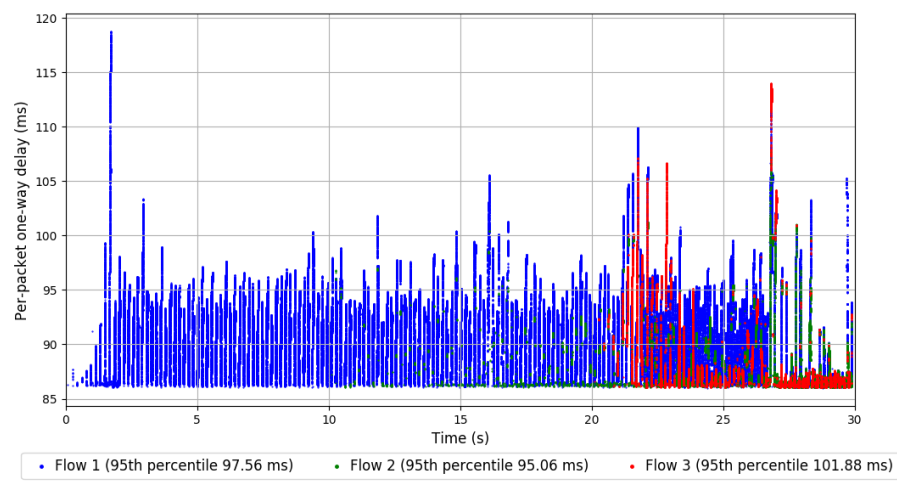
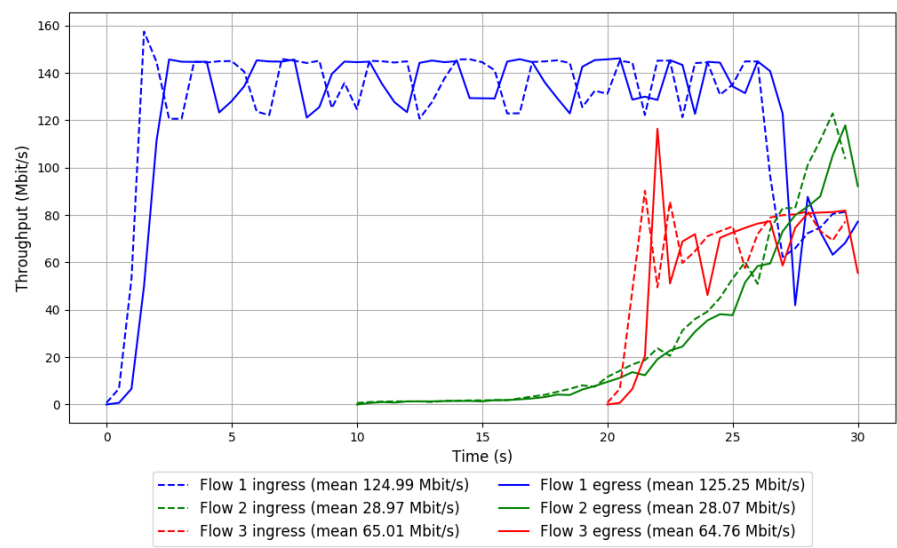
-- Flow 3:

Average throughput: 64.76 Mbit/s

95th percentile per-packet one-way delay: 101.878 ms

Loss rate: 2.12%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 00:18:49

End at: 2018-06-19 00:19:19

Local clock offset: -0.023 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2018-06-19 03:55:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.19 Mbit/s

95th percentile per-packet one-way delay: 99.415 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 131.65 Mbit/s

95th percentile per-packet one-way delay: 100.218 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 116.77 Mbit/s

95th percentile per-packet one-way delay: 97.652 ms

Loss rate: 0.64%

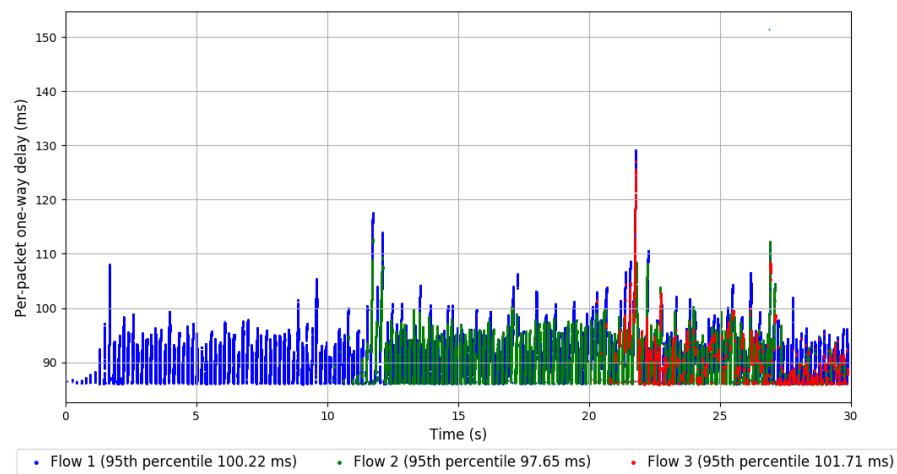
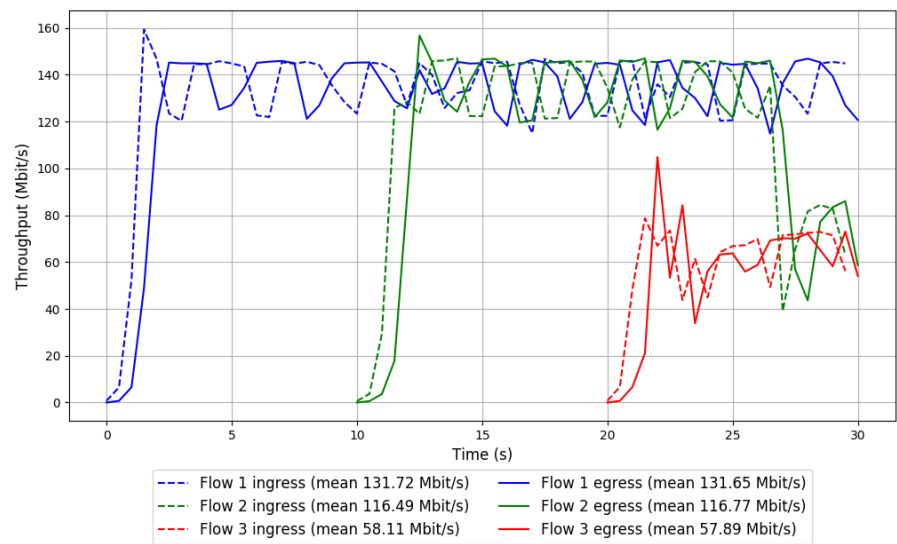
-- Flow 3:

Average throughput: 57.89 Mbit/s

95th percentile per-packet one-way delay: 101.706 ms

Loss rate: 2.11%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 00:41:58

End at: 2018-06-19 00:42:28

Local clock offset: 0.031 ms

Remote clock offset: 0.751 ms

Below is generated by plot.py at 2018-06-19 03:55:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.68 Mbit/s

95th percentile per-packet one-way delay: 97.012 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 96.394 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 98.148 ms

Loss rate: 1.14%

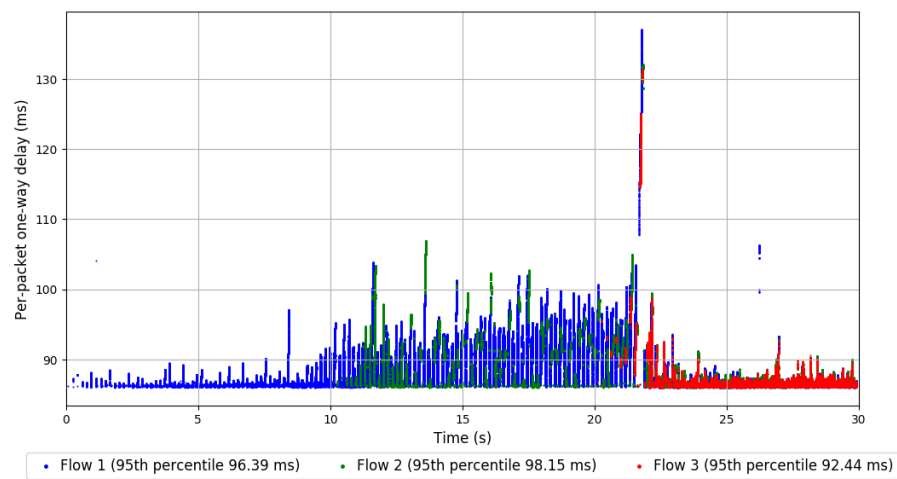
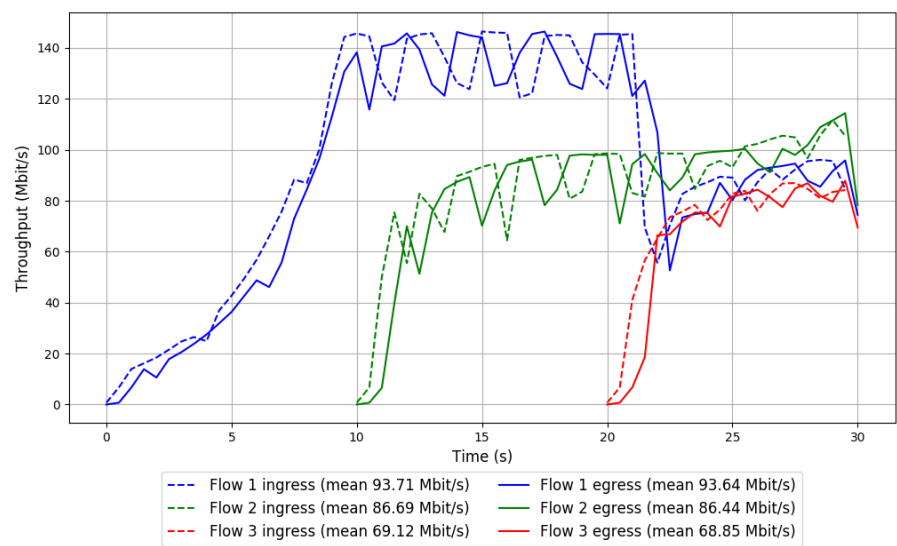
-- Flow 3:

Average throughput: 68.85 Mbit/s

95th percentile per-packet one-way delay: 92.445 ms

Loss rate: 2.13%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 01:05:21

End at: 2018-06-19 01:05:51

Local clock offset: -0.047 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-06-19 03:55:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.73 Mbit/s

95th percentile per-packet one-way delay: 97.345 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 129.58 Mbit/s

95th percentile per-packet one-way delay: 96.939 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 96.424 ms

Loss rate: 1.13%

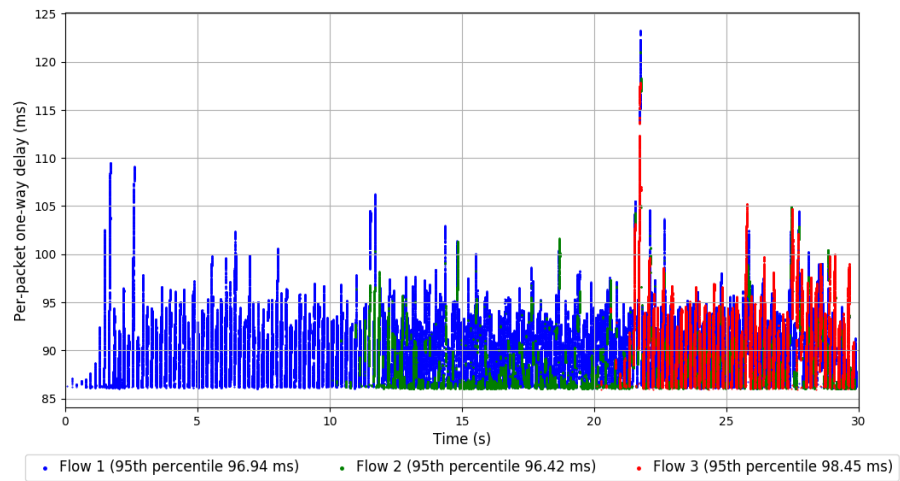
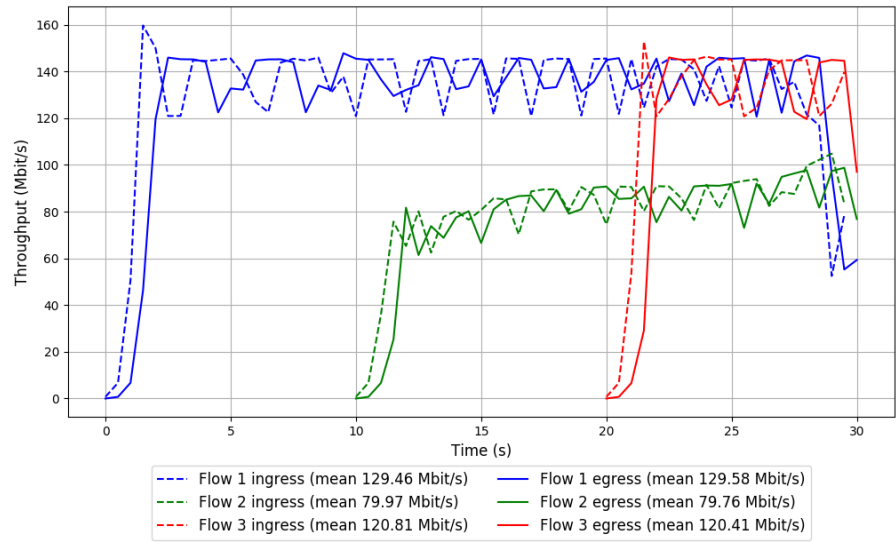
-- Flow 3:

Average throughput: 120.41 Mbit/s

95th percentile per-packet one-way delay: 98.453 ms

Loss rate: 2.03%

Run 4: Report of TCP Cubic — Data Link

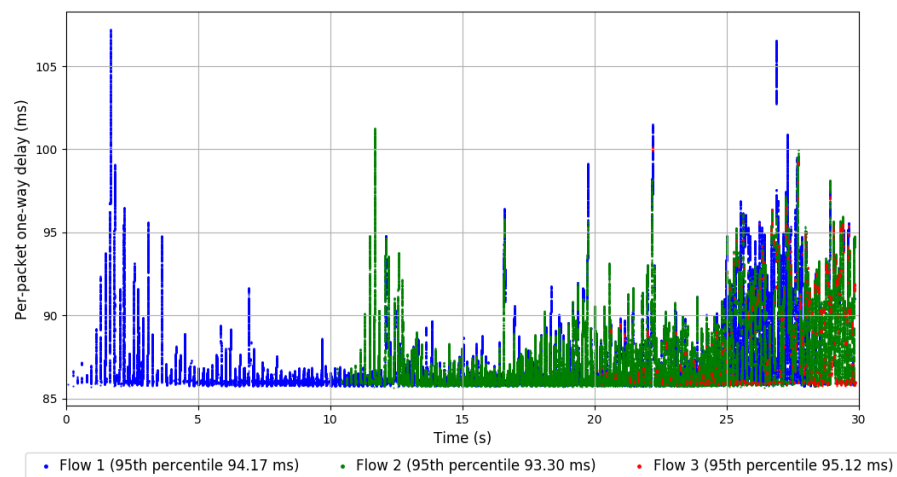
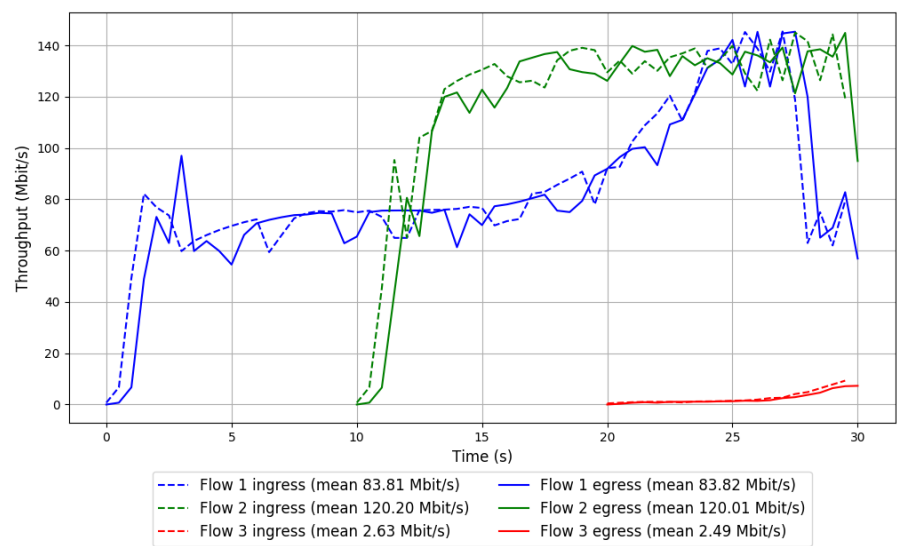


Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 01:28:39
End at: 2018-06-19 01:29:09
Local clock offset: -0.222 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-19 03:55:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 164.04 Mbit/s
95th percentile per-packet one-way delay: 93.751 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 83.82 Mbit/s
95th percentile per-packet one-way delay: 94.173 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 120.01 Mbit/s
95th percentile per-packet one-way delay: 93.296 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 95.116 ms
Loss rate: 7.06%

Run 5: Report of TCP Cubic — Data Link

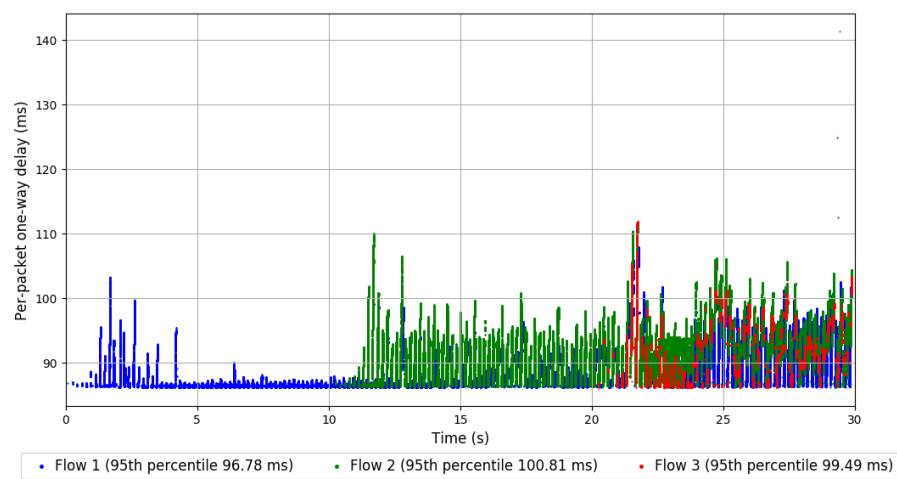
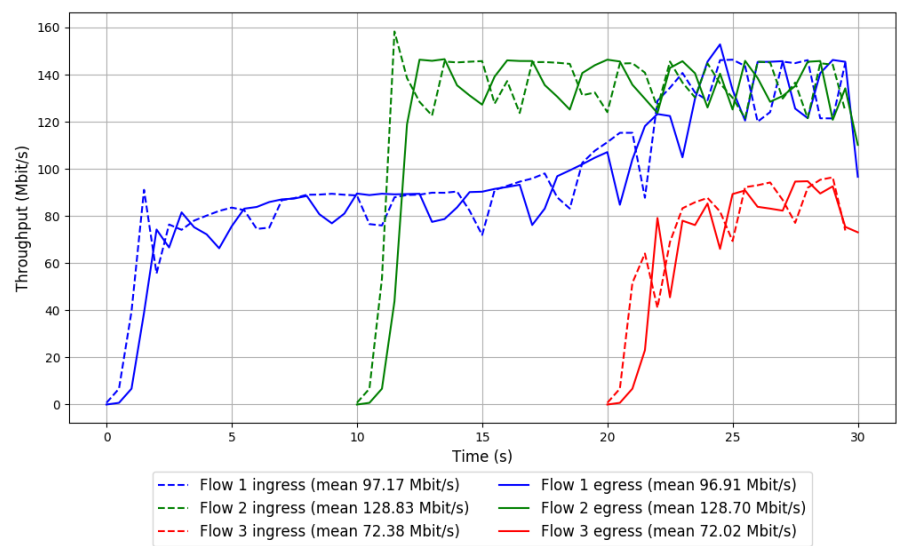


Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 01:51:47
End at: 2018-06-19 01:52:17
Local clock offset: 0.204 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-19 03:56:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 205.84 Mbit/s
95th percentile per-packet one-way delay: 99.167 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 96.775 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 128.70 Mbit/s
95th percentile per-packet one-way delay: 100.812 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 72.02 Mbit/s
95th percentile per-packet one-way delay: 99.488 ms
Loss rate: 2.23%

Run 6: Report of TCP Cubic — Data Link

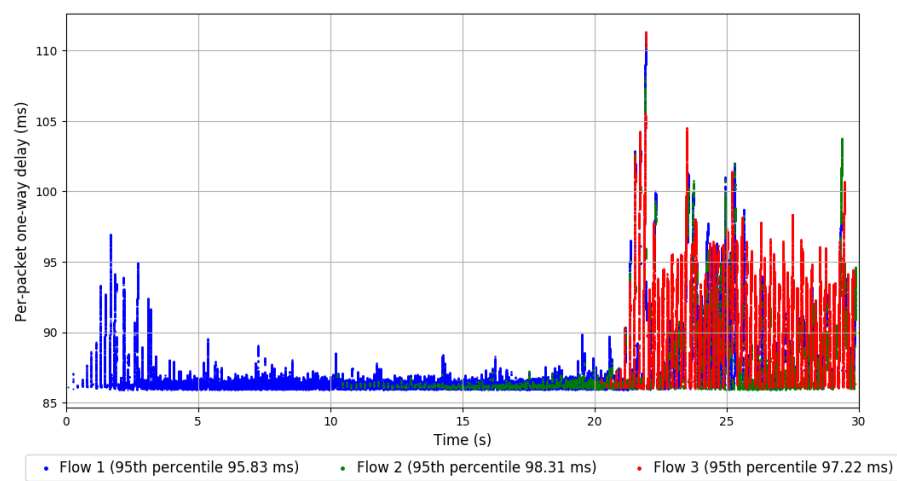
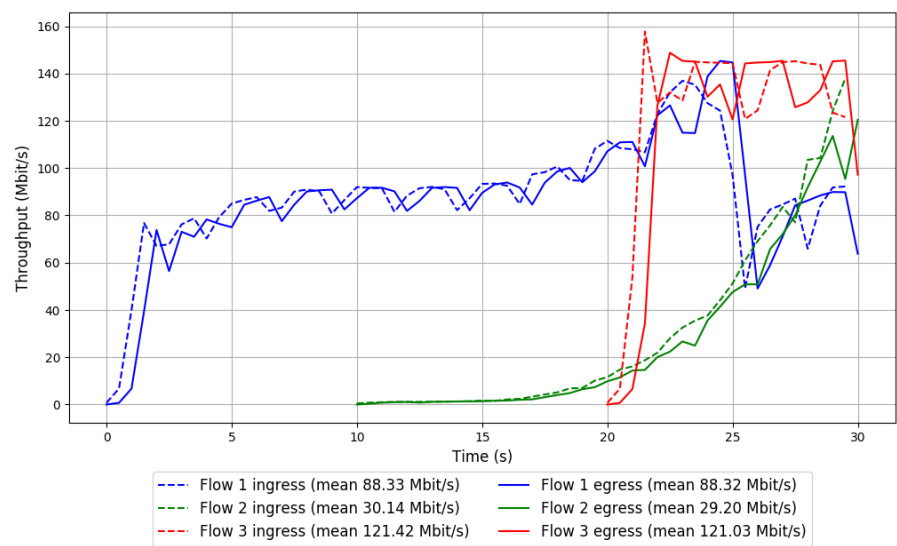


Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 02:14:54
End at: 2018-06-19 02:15:24
Local clock offset: -0.045 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-19 03:56:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.08 Mbit/s
95th percentile per-packet one-way delay: 96.658 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 88.32 Mbit/s
95th percentile per-packet one-way delay: 95.830 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 29.20 Mbit/s
95th percentile per-packet one-way delay: 98.306 ms
Loss rate: 3.96%
-- Flow 3:
Average throughput: 121.03 Mbit/s
95th percentile per-packet one-way delay: 97.224 ms
Loss rate: 2.03%

Run 7: Report of TCP Cubic — Data Link

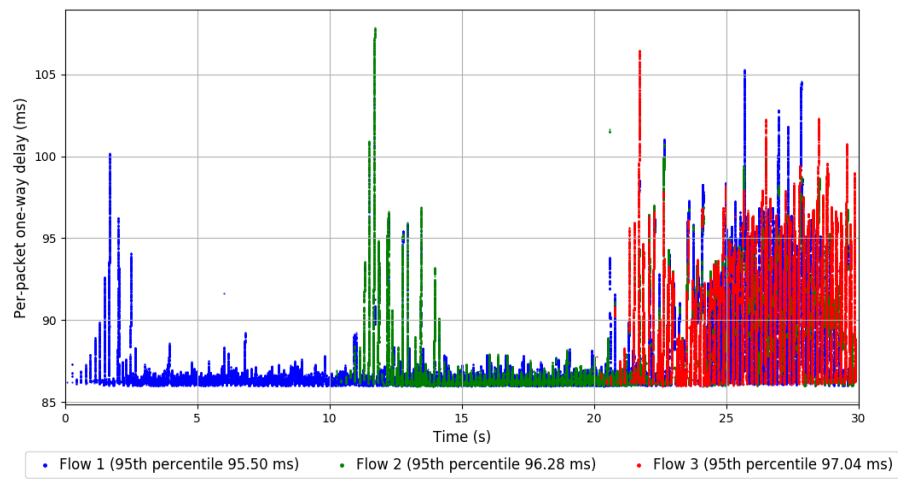
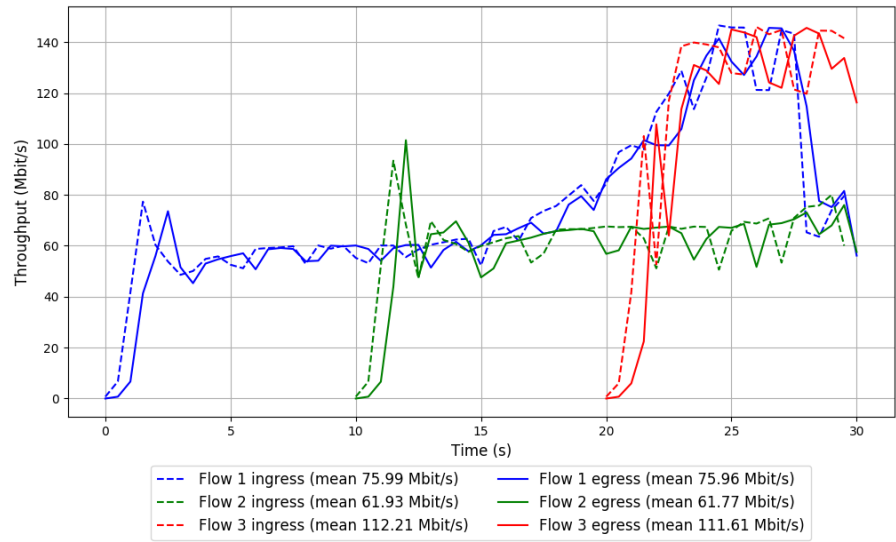


Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 02:37:59
End at: 2018-06-19 02:38:29
Local clock offset: 0.037 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-19 03:56:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.51 Mbit/s
95th percentile per-packet one-way delay: 96.218 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 75.96 Mbit/s
95th percentile per-packet one-way delay: 95.505 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 61.77 Mbit/s
95th percentile per-packet one-way delay: 96.277 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 111.61 Mbit/s
95th percentile per-packet one-way delay: 97.036 ms
Loss rate: 2.28%

Run 8: Report of TCP Cubic — Data Link

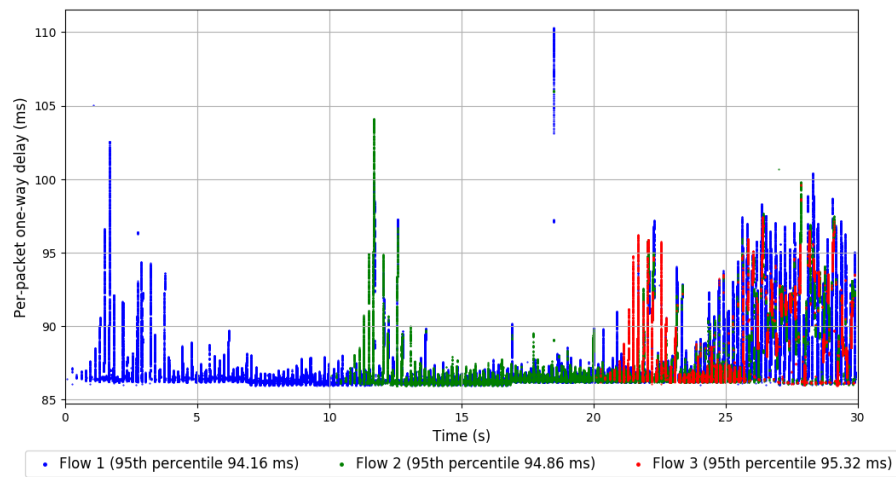
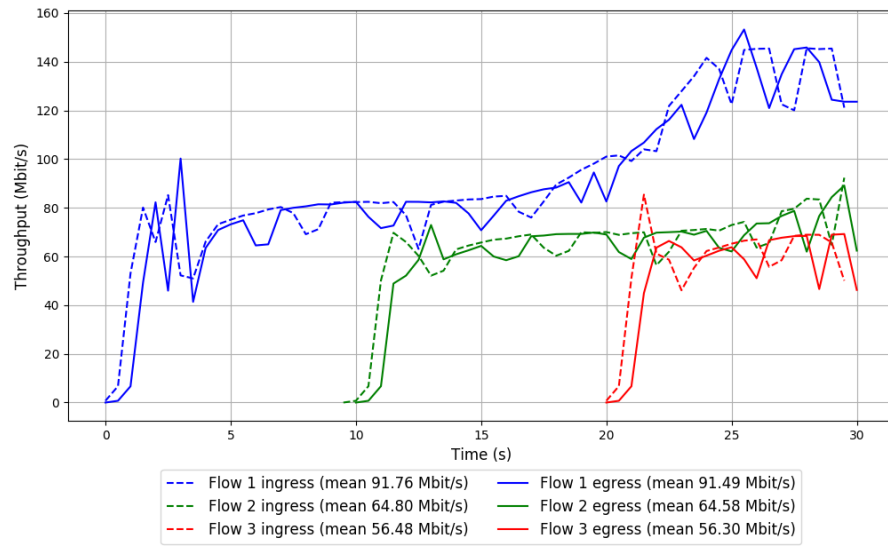


Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 03:01:01
End at: 2018-06-19 03:01:31
Local clock offset: 0.125 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-19 03:56:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 152.90 Mbit/s
95th percentile per-packet one-way delay: 94.659 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 94.163 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 94.861 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 56.30 Mbit/s
95th percentile per-packet one-way delay: 95.322 ms
Loss rate: 2.05%

Run 9: Report of TCP Cubic — Data Link

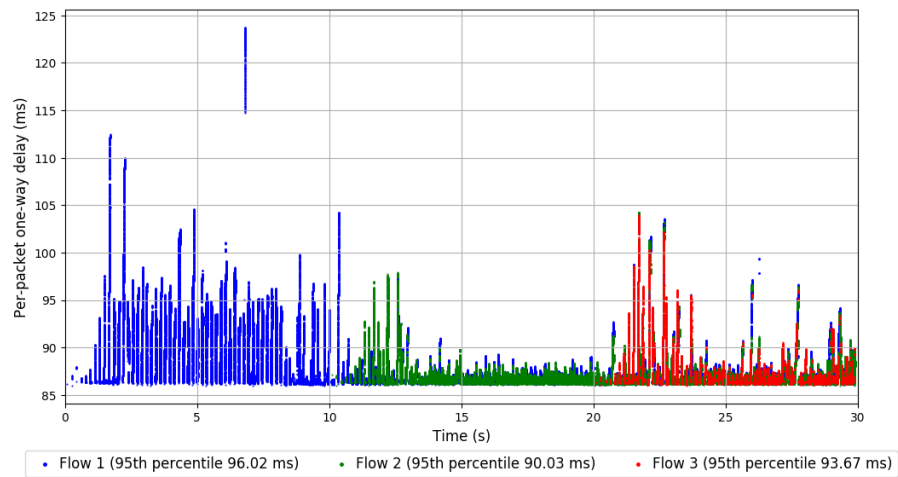
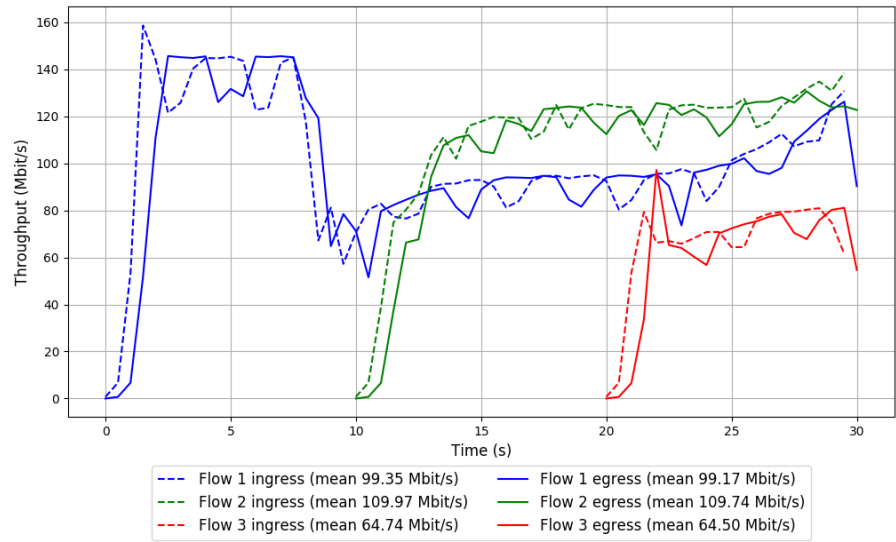


Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 03:24:12
End at: 2018-06-19 03:24:42
Local clock offset: 0.02 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-19 03:57:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 193.17 Mbit/s
95th percentile per-packet one-way delay: 94.710 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 99.17 Mbit/s
95th percentile per-packet one-way delay: 96.015 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 109.74 Mbit/s
95th percentile per-packet one-way delay: 90.035 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 64.50 Mbit/s
95th percentile per-packet one-way delay: 93.668 ms
Loss rate: 2.10%

Run 10: Report of TCP Cubic — Data Link

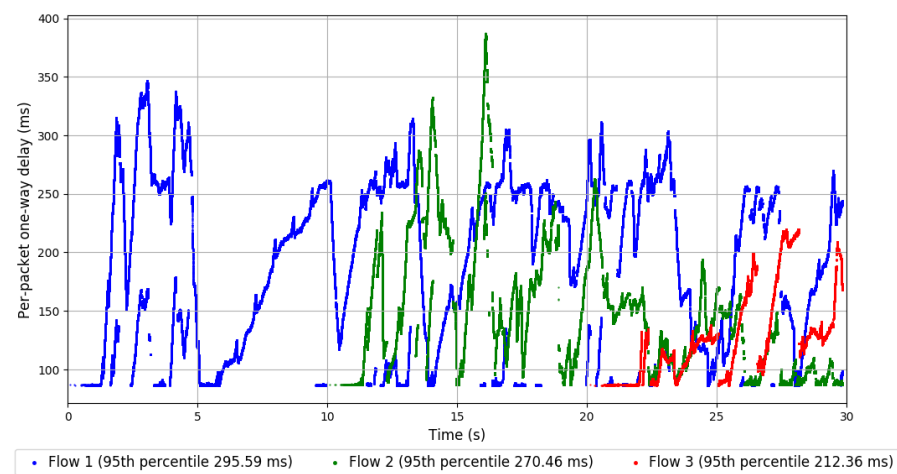
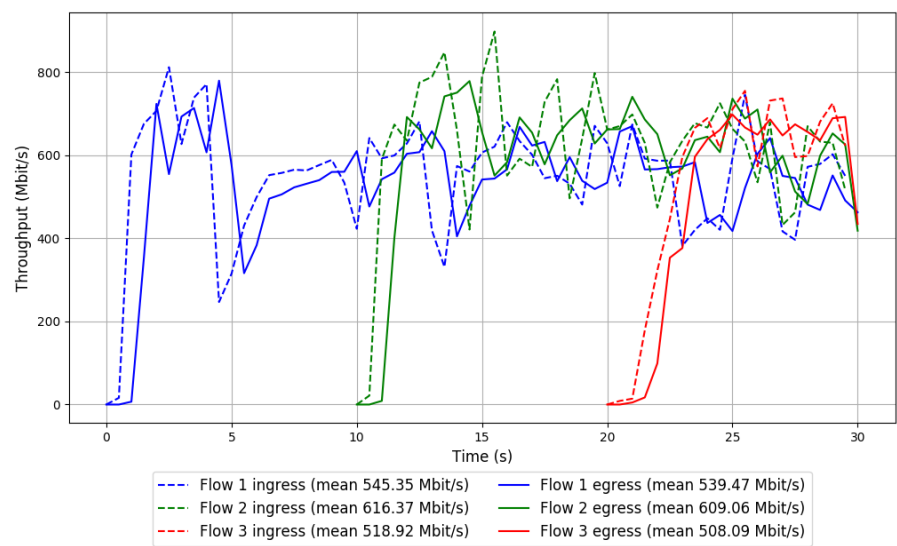


Run 1: Statistics of FillP

Start at: 2018-06-18 23:36:25
End at: 2018-06-18 23:36:55
Local clock offset: 0.195 ms
Remote clock offset: -0.949 ms

Below is generated by plot.py at 2018-06-19 04:16:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 1109.63 Mbit/s
95th percentile per-packet one-way delay: 282.878 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 539.47 Mbit/s
95th percentile per-packet one-way delay: 295.588 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 609.06 Mbit/s
95th percentile per-packet one-way delay: 270.462 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 508.09 Mbit/s
95th percentile per-packet one-way delay: 212.358 ms
Loss rate: 3.81%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-18 23:59:31

End at: 2018-06-19 00:00:01

Local clock offset: 0.017 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-06-19 04:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1244.63 Mbit/s

95th percentile per-packet one-way delay: 290.019 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 652.81 Mbit/s

95th percentile per-packet one-way delay: 305.320 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 621.72 Mbit/s

95th percentile per-packet one-way delay: 252.961 ms

Loss rate: 1.68%

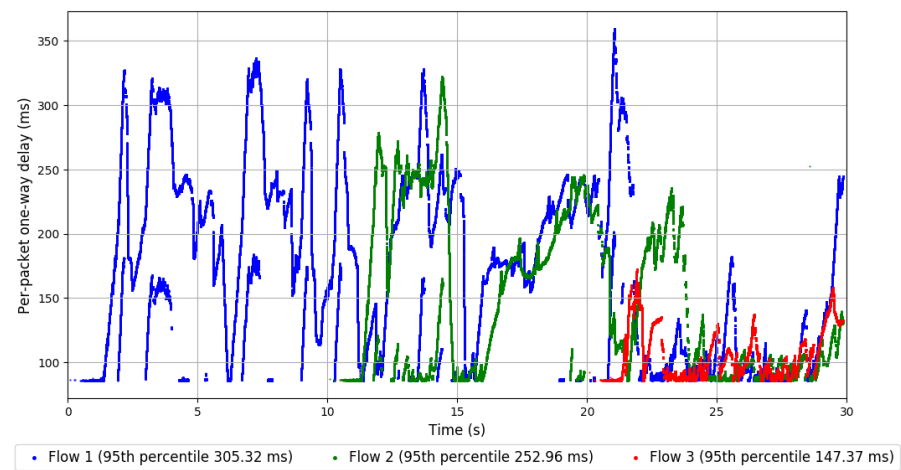
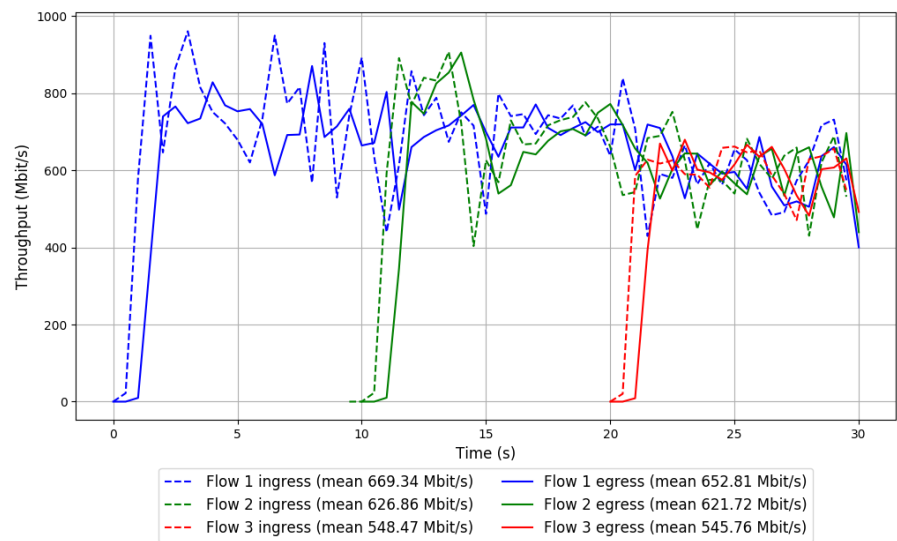
-- Flow 3:

Average throughput: 545.76 Mbit/s

95th percentile per-packet one-way delay: 147.369 ms

Loss rate: 2.23%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-19 00:22:37

End at: 2018-06-19 00:23:07

Local clock offset: 0.245 ms

Remote clock offset: 0.554 ms

Below is generated by plot.py at 2018-06-19 04:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1217.86 Mbit/s

95th percentile per-packet one-way delay: 261.929 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 645.45 Mbit/s

95th percentile per-packet one-way delay: 271.834 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 608.09 Mbit/s

95th percentile per-packet one-way delay: 255.405 ms

Loss rate: 1.32%

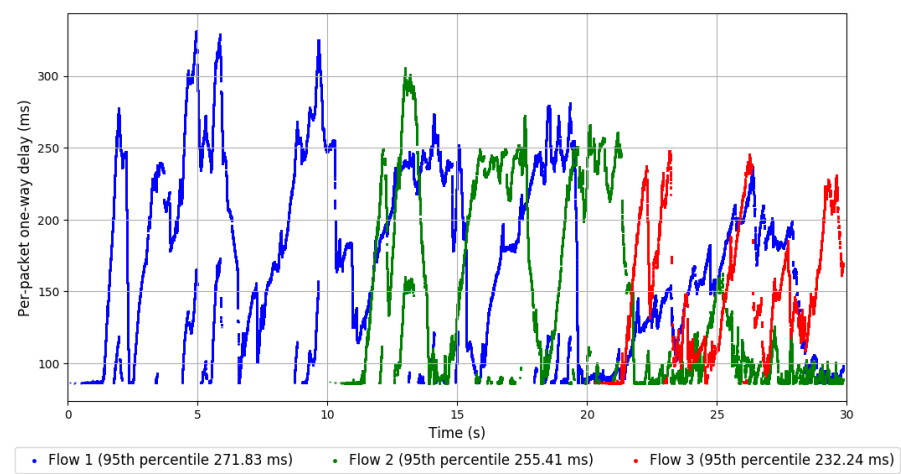
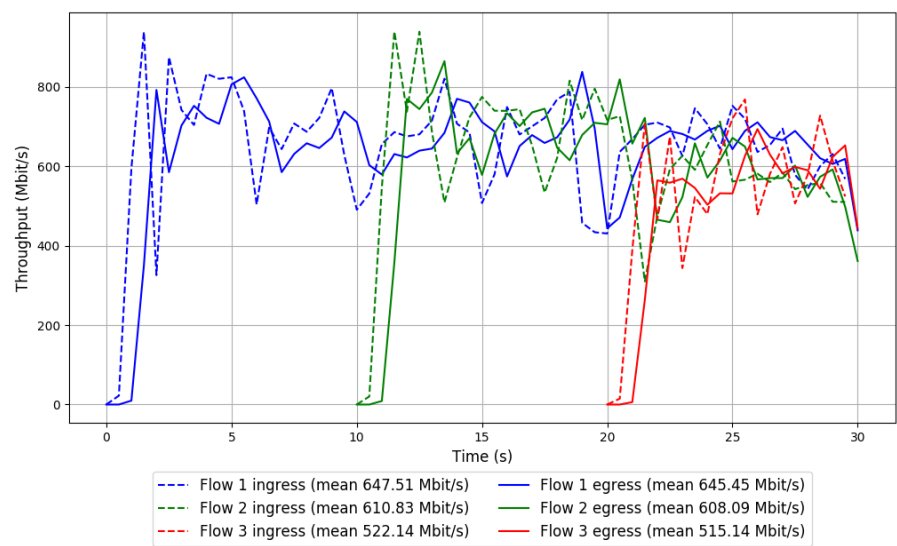
-- Flow 3:

Average throughput: 515.14 Mbit/s

95th percentile per-packet one-way delay: 232.241 ms

Loss rate: 3.07%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-19 00:45:42

End at: 2018-06-19 00:46:12

Local clock offset: 0.015 ms

Remote clock offset: 0.754 ms

Below is generated by plot.py at 2018-06-19 04:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1106.78 Mbit/s

95th percentile per-packet one-way delay: 293.503 ms

Loss rate: 2.81%

-- Flow 1:

Average throughput: 574.50 Mbit/s

95th percentile per-packet one-way delay: 303.062 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 579.05 Mbit/s

95th percentile per-packet one-way delay: 293.107 ms

Loss rate: 2.49%

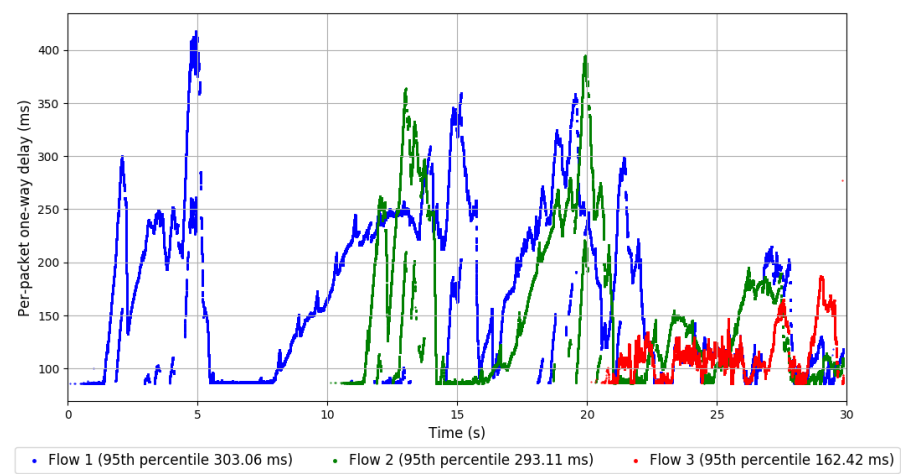
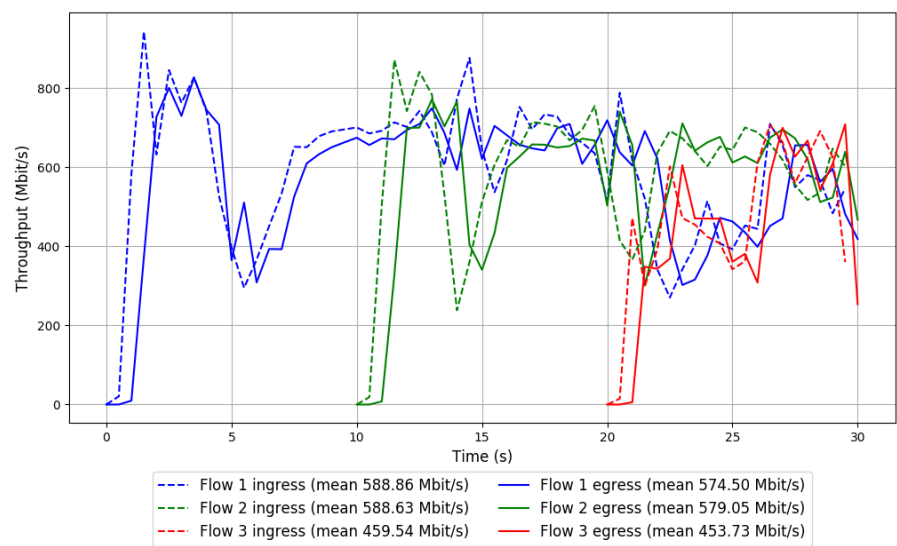
-- Flow 3:

Average throughput: 453.73 Mbit/s

95th percentile per-packet one-way delay: 162.420 ms

Loss rate: 2.92%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-19 01:09:08

End at: 2018-06-19 01:09:38

Local clock offset: -0.14 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-19 04:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1172.45 Mbit/s

95th percentile per-packet one-way delay: 276.985 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 629.03 Mbit/s

95th percentile per-packet one-way delay: 286.313 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 563.42 Mbit/s

95th percentile per-packet one-way delay: 280.502 ms

Loss rate: 1.70%

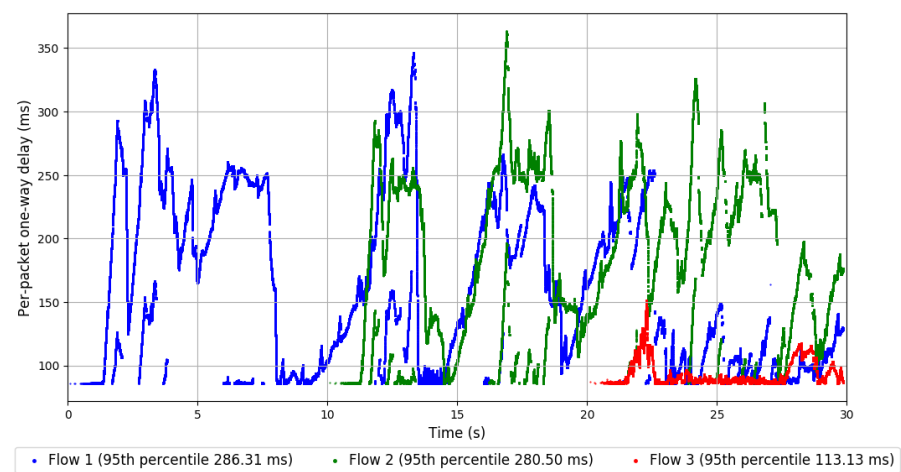
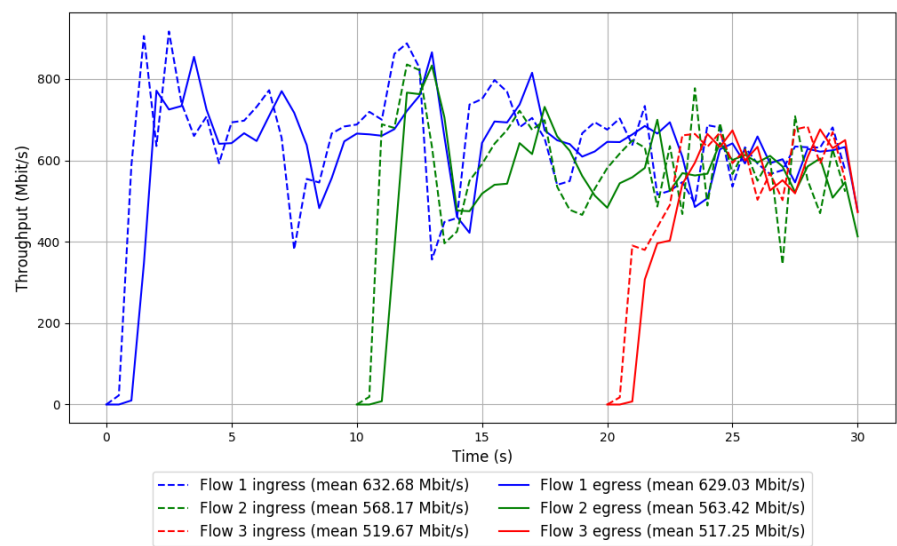
-- Flow 3:

Average throughput: 517.25 Mbit/s

95th percentile per-packet one-way delay: 113.129 ms

Loss rate: 2.13%

Run 5: Report of FillP — Data Link

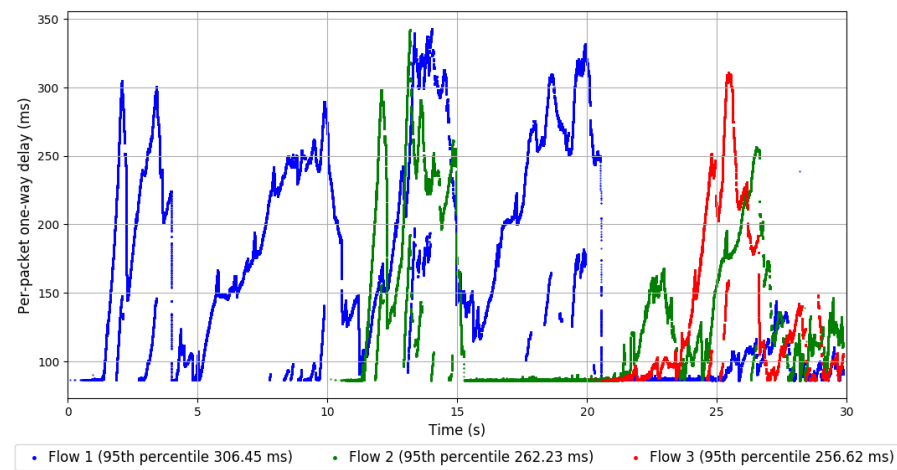
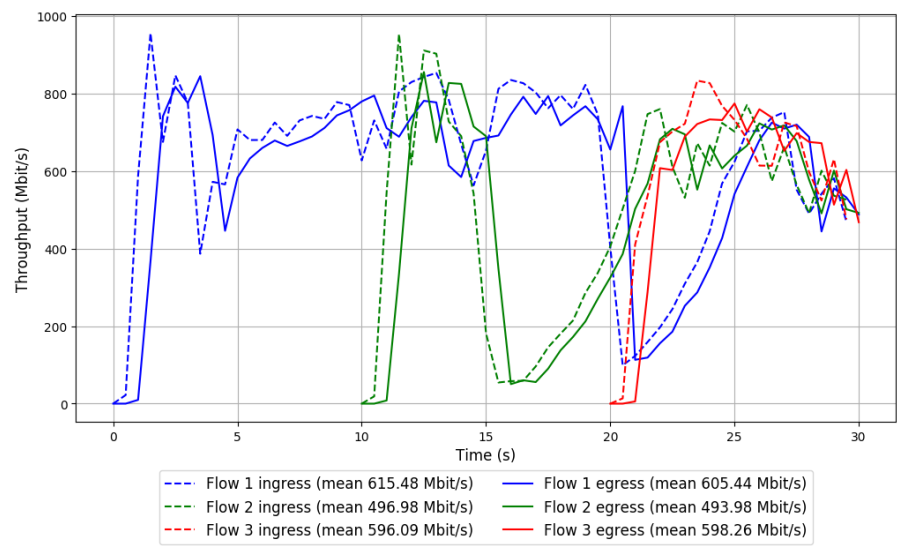


Run 6: Statistics of FillP

Start at: 2018-06-19 01:32:23
End at: 2018-06-19 01:32:53
Local clock offset: 0.18 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-19 04:20:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 1128.52 Mbit/s
95th percentile per-packet one-way delay: 294.279 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 605.44 Mbit/s
95th percentile per-packet one-way delay: 306.455 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 493.98 Mbit/s
95th percentile per-packet one-way delay: 262.232 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 598.26 Mbit/s
95th percentile per-packet one-way delay: 256.616 ms
Loss rate: 1.40%

Run 6: Report of FillP — Data Link

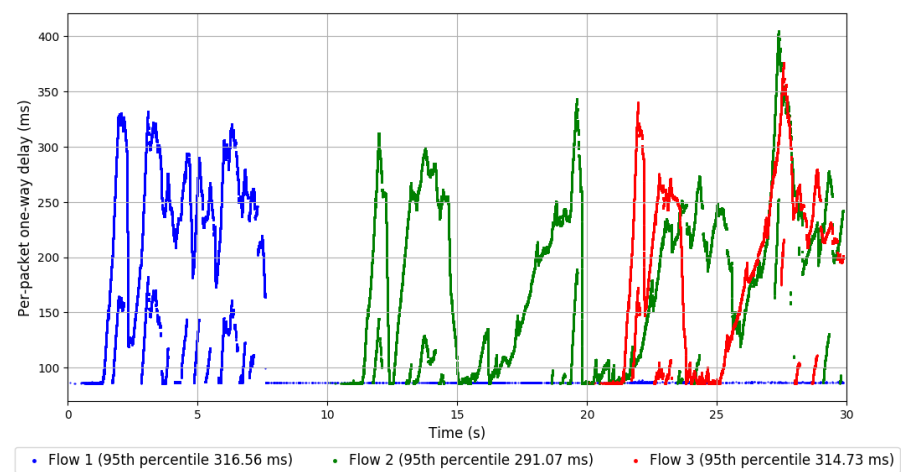
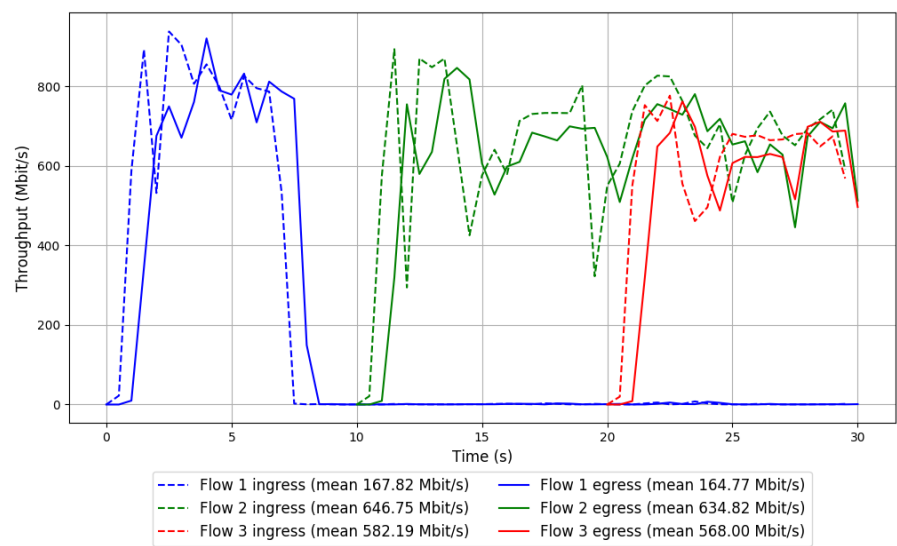


Run 7: Statistics of FillP

Start at: 2018-06-19 01:55:34
End at: 2018-06-19 01:56:04
Local clock offset: 0.038 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-06-19 04:20:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 772.38 Mbit/s
95th percentile per-packet one-way delay: 310.693 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 164.77 Mbit/s
95th percentile per-packet one-way delay: 316.559 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 634.82 Mbit/s
95th percentile per-packet one-way delay: 291.075 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 568.00 Mbit/s
95th percentile per-packet one-way delay: 314.731 ms
Loss rate: 4.16%

Run 7: Report of FillP — Data Link

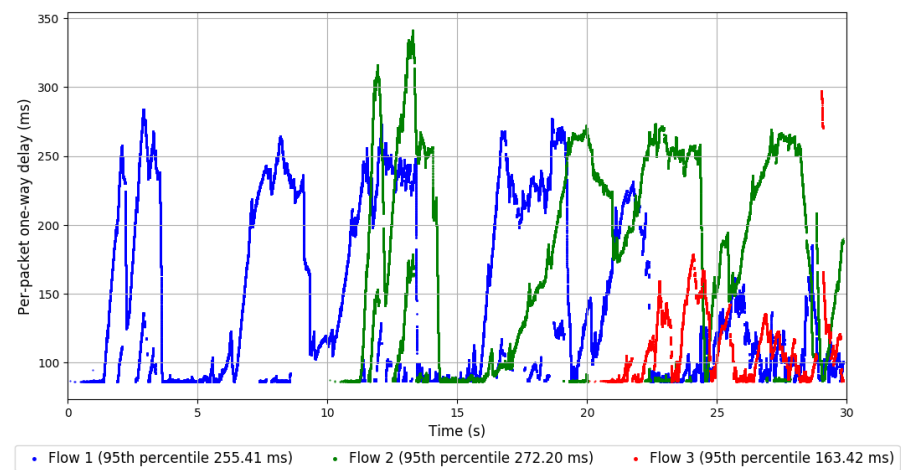
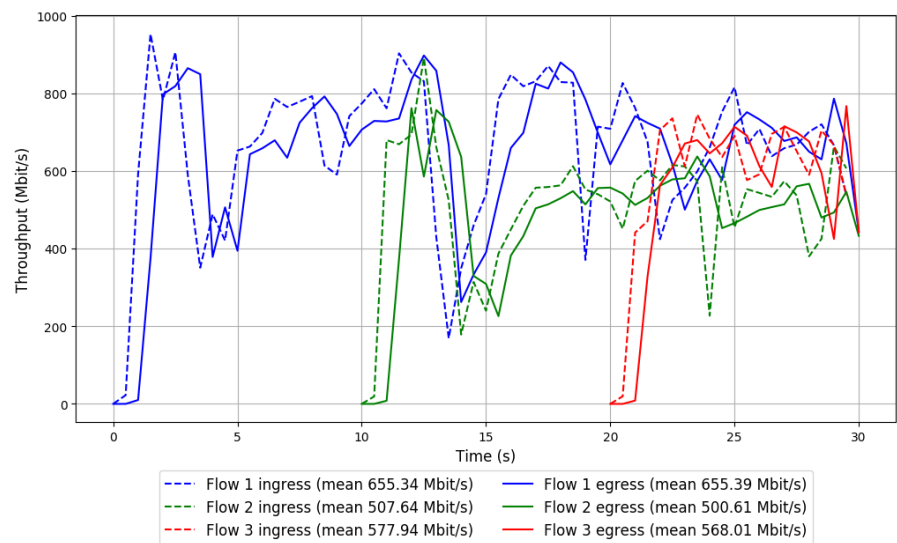


Run 8: Statistics of FillP

Start at: 2018-06-19 02:18:38
End at: 2018-06-19 02:19:08
Local clock offset: 0.051 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-06-19 04:21:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 1173.69 Mbit/s
95th percentile per-packet one-way delay: 263.531 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 655.39 Mbit/s
95th percentile per-packet one-way delay: 255.415 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 500.61 Mbit/s
95th percentile per-packet one-way delay: 272.203 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 568.01 Mbit/s
95th percentile per-packet one-way delay: 163.416 ms
Loss rate: 3.43%

Run 8: Report of FillP — Data Link

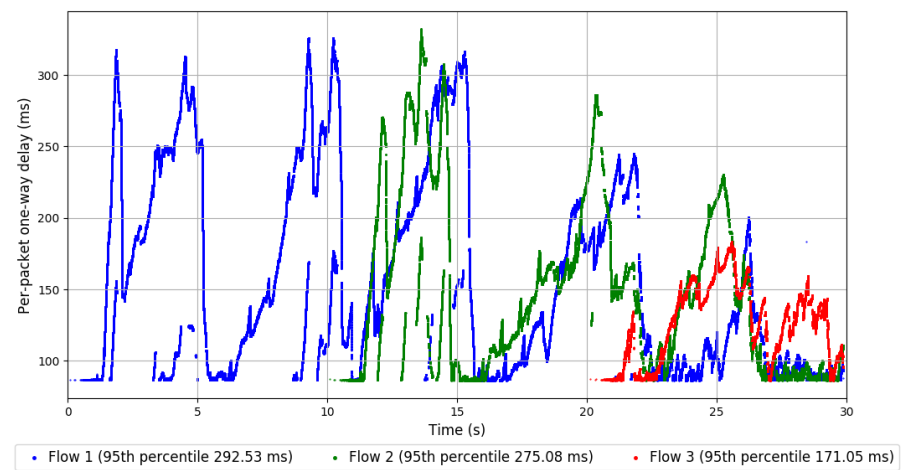
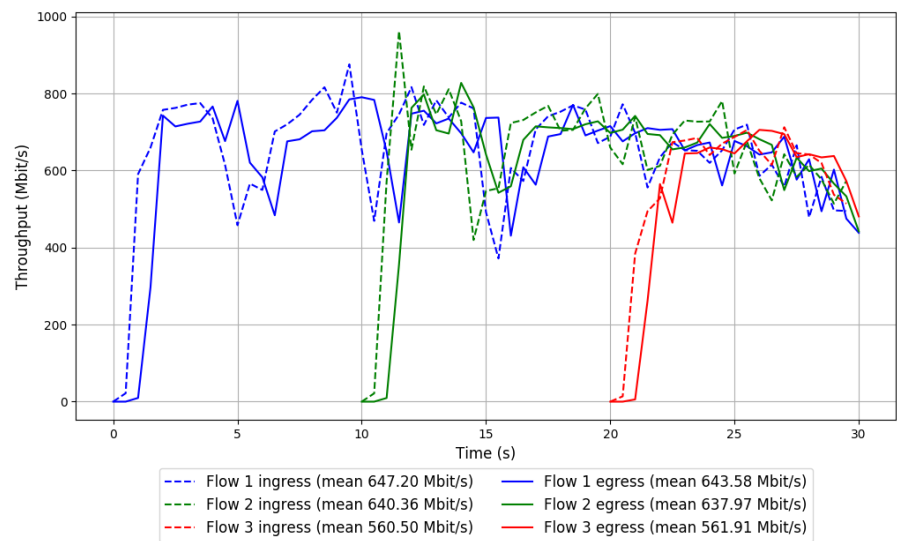


Run 9: Statistics of FillP

Start at: 2018-06-19 02:41:43
End at: 2018-06-19 02:42:13
Local clock offset: 0.173 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-06-19 04:40:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 1250.67 Mbit/s
95th percentile per-packet one-way delay: 284.939 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 643.58 Mbit/s
95th percentile per-packet one-way delay: 292.534 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 637.97 Mbit/s
95th percentile per-packet one-way delay: 275.079 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 561.91 Mbit/s
95th percentile per-packet one-way delay: 171.047 ms
Loss rate: 1.51%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-19 03:04:45

End at: 2018-06-19 03:05:15

Local clock offset: -0.015 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 1196.73 Mbit/s

95th percentile per-packet one-way delay: 287.336 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 640.26 Mbit/s

95th percentile per-packet one-way delay: 299.533 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 572.52 Mbit/s

95th percentile per-packet one-way delay: 273.916 ms

Loss rate: 1.04%

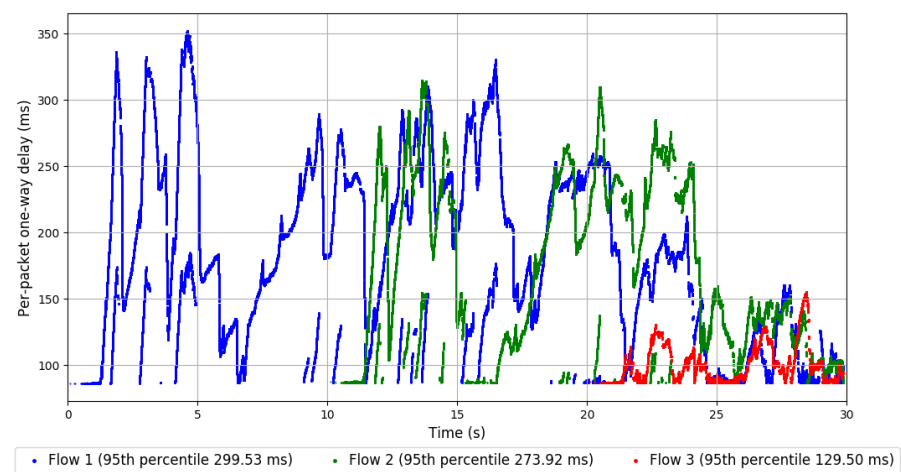
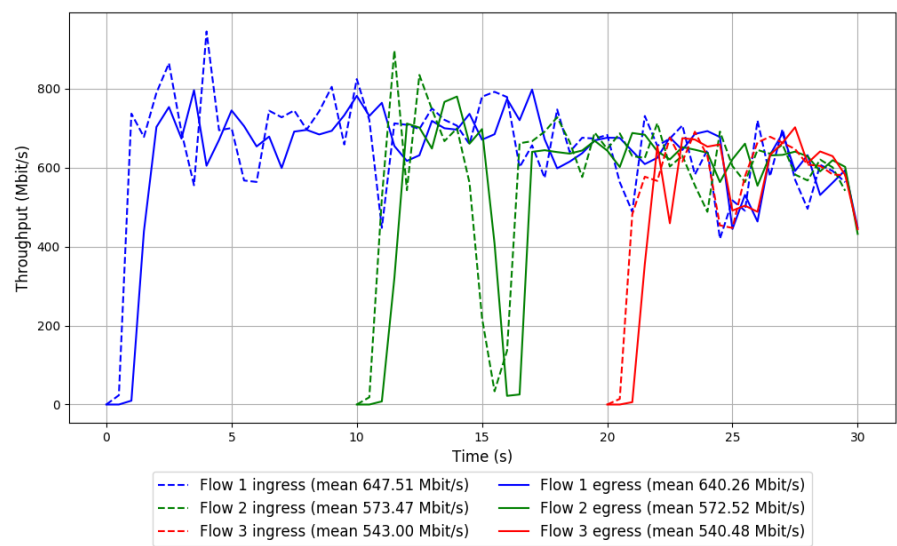
-- Flow 3:

Average throughput: 540.48 Mbit/s

95th percentile per-packet one-way delay: 129.504 ms

Loss rate: 2.21%

Run 10: Report of FillP — Data Link

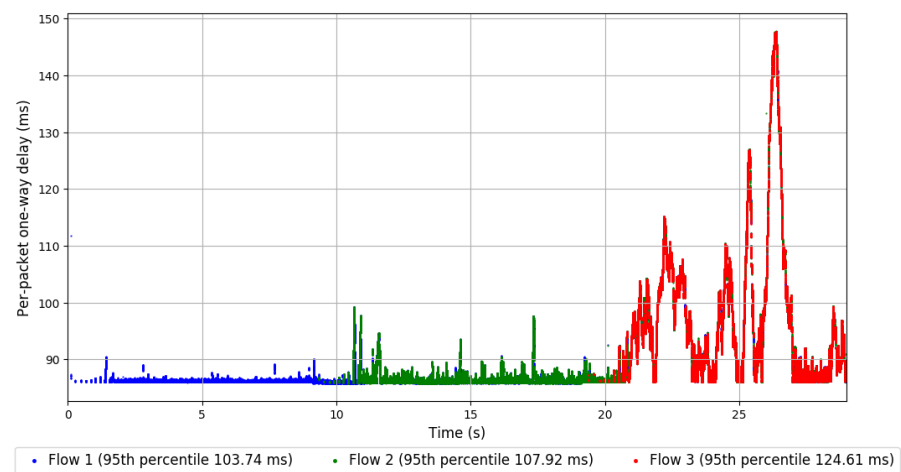
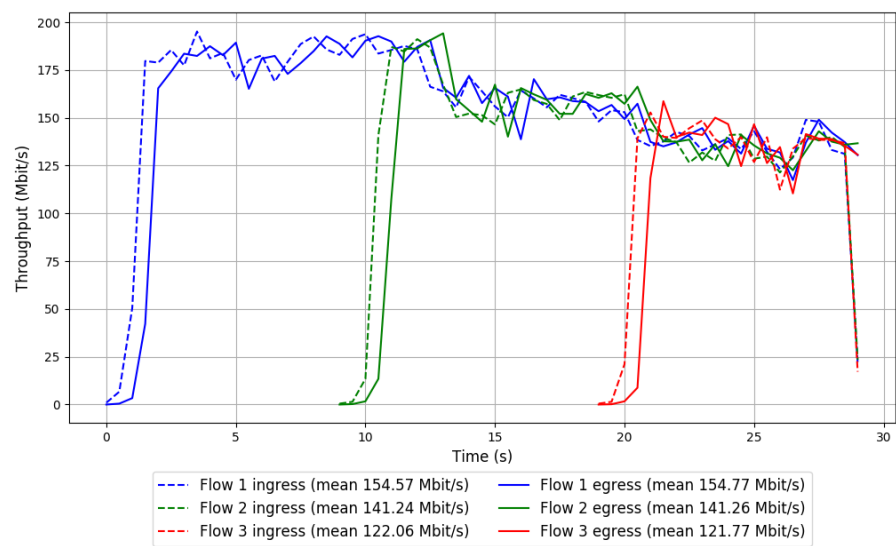


Run 1: Statistics of Indigo

Start at: 2018-06-18 23:42:38
End at: 2018-06-18 23:43:08
Local clock offset: -0.055 ms
Remote clock offset: -0.455 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.25 Mbit/s
95th percentile per-packet one-way delay: 107.604 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 154.77 Mbit/s
95th percentile per-packet one-way delay: 103.737 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 141.26 Mbit/s
95th percentile per-packet one-way delay: 107.920 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 121.77 Mbit/s
95th percentile per-packet one-way delay: 124.613 ms
Loss rate: 1.99%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-19 00:05:57

End at: 2018-06-19 00:06:27

Local clock offset: -0.041 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.22 Mbit/s

95th percentile per-packet one-way delay: 88.967 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 143.93 Mbit/s

95th percentile per-packet one-way delay: 87.962 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 125.71 Mbit/s

95th percentile per-packet one-way delay: 89.276 ms

Loss rate: 1.06%

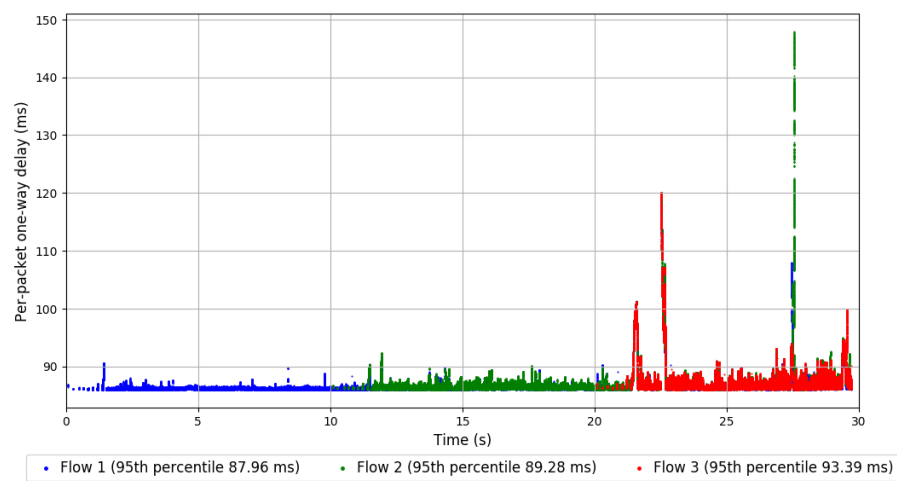
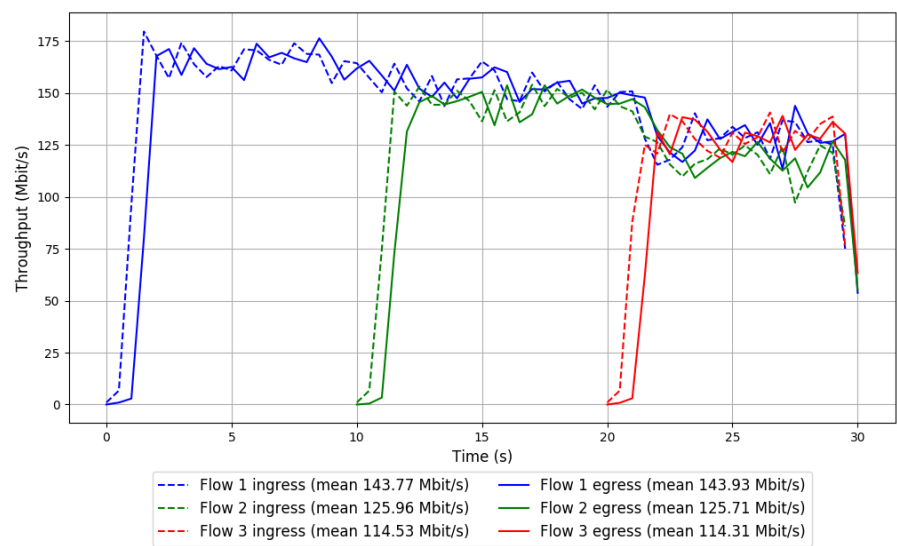
-- Flow 3:

Average throughput: 114.31 Mbit/s

95th percentile per-packet one-way delay: 93.386 ms

Loss rate: 1.92%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-19 00:28:55

End at: 2018-06-19 00:29:25

Local clock offset: -0.157 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.27 Mbit/s

95th percentile per-packet one-way delay: 103.641 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 140.82 Mbit/s

95th percentile per-packet one-way delay: 99.717 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 133.54 Mbit/s

95th percentile per-packet one-way delay: 103.446 ms

Loss rate: 0.83%

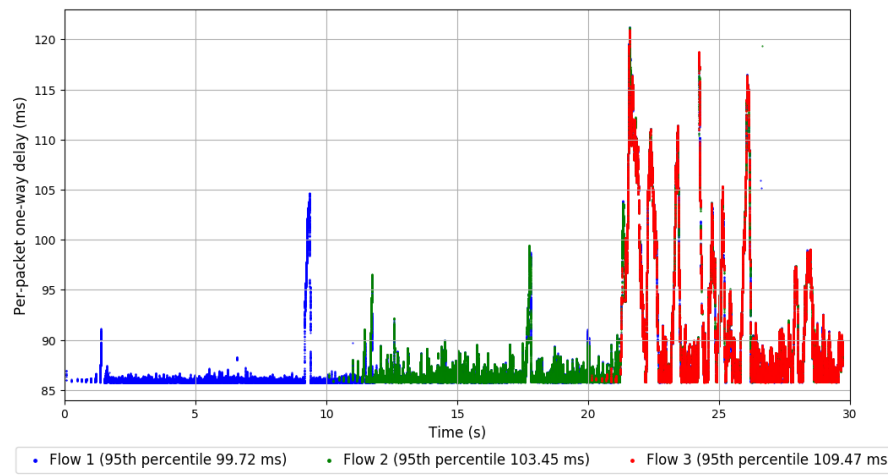
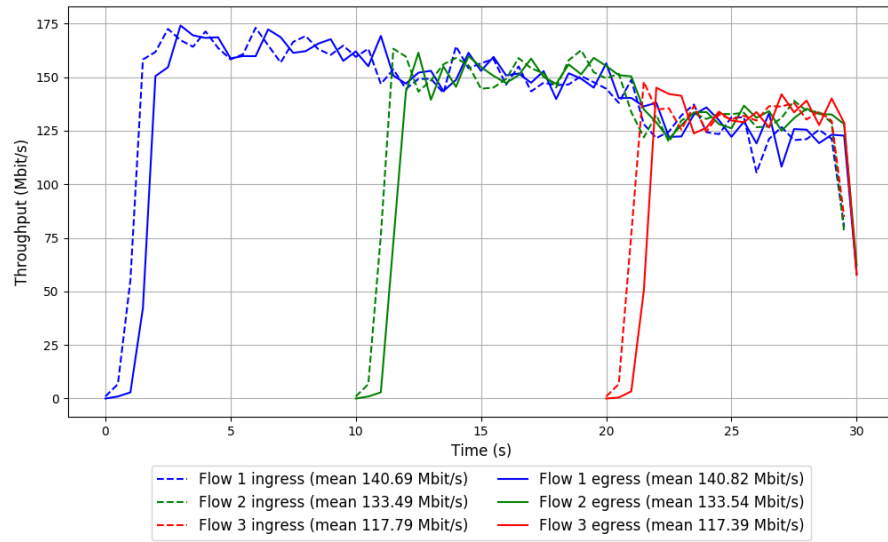
-- Flow 3:

Average throughput: 117.39 Mbit/s

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

Loss rate: 2.11%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-19 00:51:57

End at: 2018-06-19 00:52:27

Local clock offset: 0.074 ms

Remote clock offset: 0.383 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.07 Mbit/s

95th percentile per-packet one-way delay: 88.797 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 133.09 Mbit/s

95th percentile per-packet one-way delay: 87.822 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 117.47 Mbit/s

95th percentile per-packet one-way delay: 89.166 ms

Loss rate: 0.85%

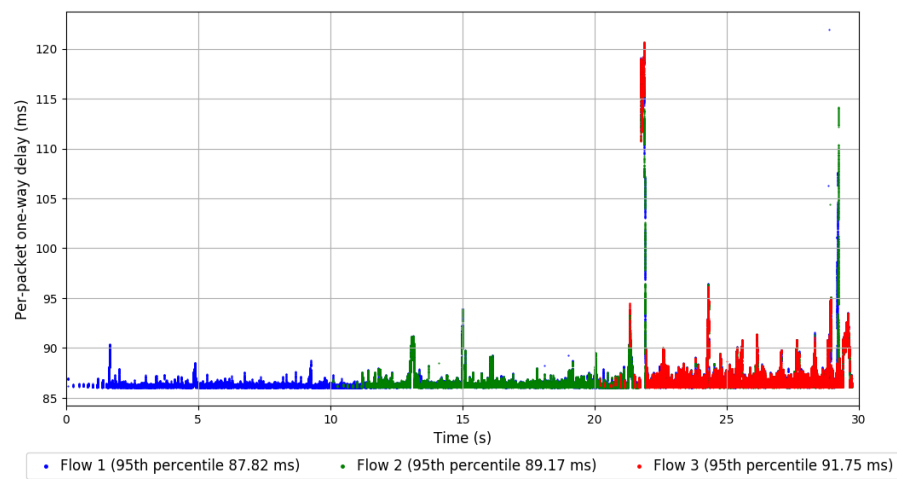
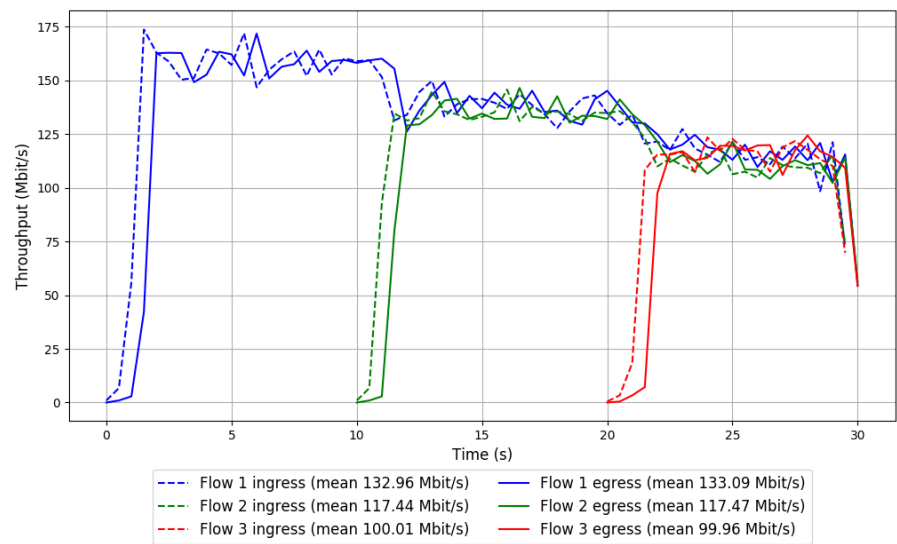
-- Flow 3:

Average throughput: 99.96 Mbit/s

95th percentile per-packet one-way delay: 91.746 ms

Loss rate: 1.84%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-19 01:15:26

End at: 2018-06-19 01:15:56

Local clock offset: 0.031 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.46 Mbit/s

95th percentile per-packet one-way delay: 109.585 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 145.48 Mbit/s

95th percentile per-packet one-way delay: 105.618 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 134.38 Mbit/s

95th percentile per-packet one-way delay: 110.142 ms

Loss rate: 0.80%

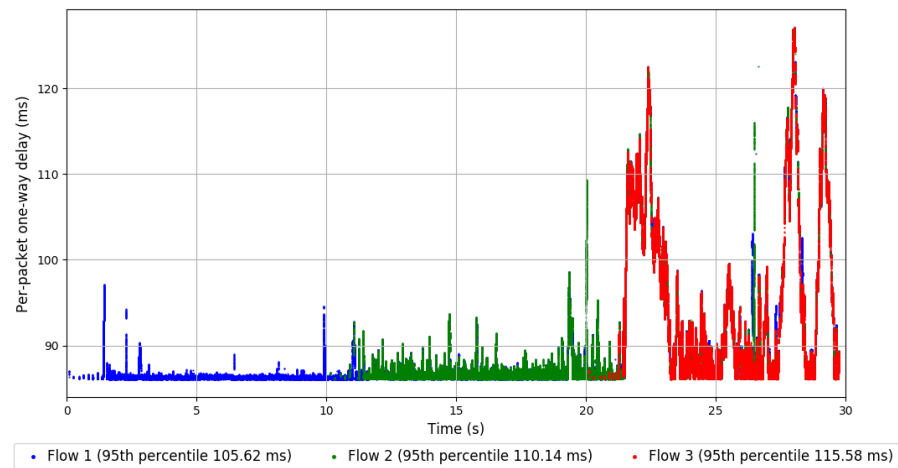
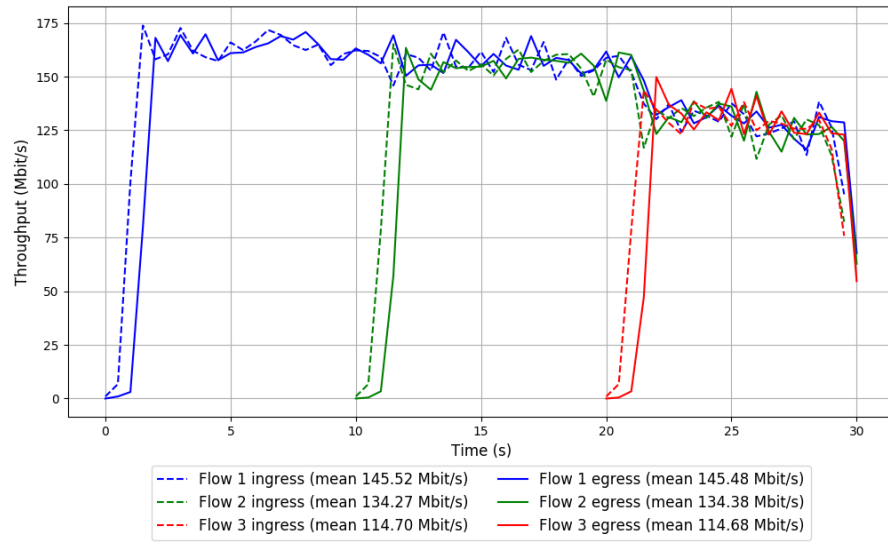
-- Flow 3:

Average throughput: 114.68 Mbit/s

95th percentile per-packet one-way delay: 115.578 ms

Loss rate: 1.79%

Run 5: Report of Indigo — Data Link

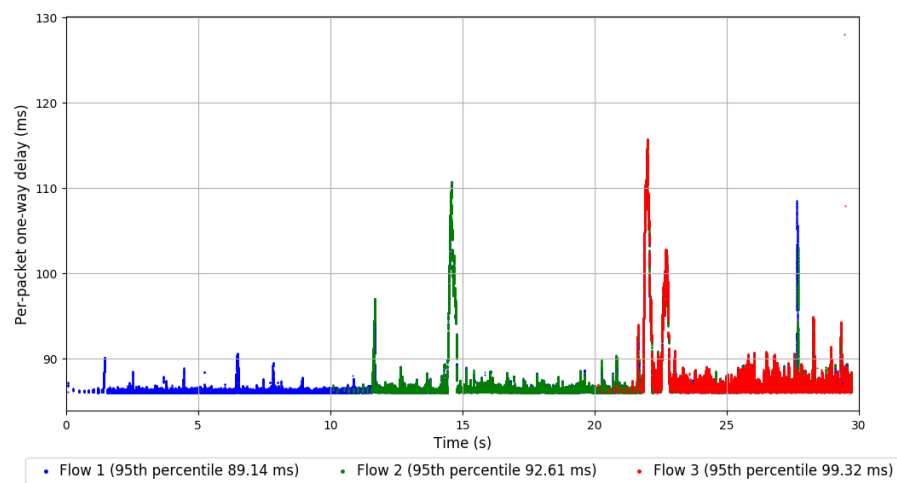
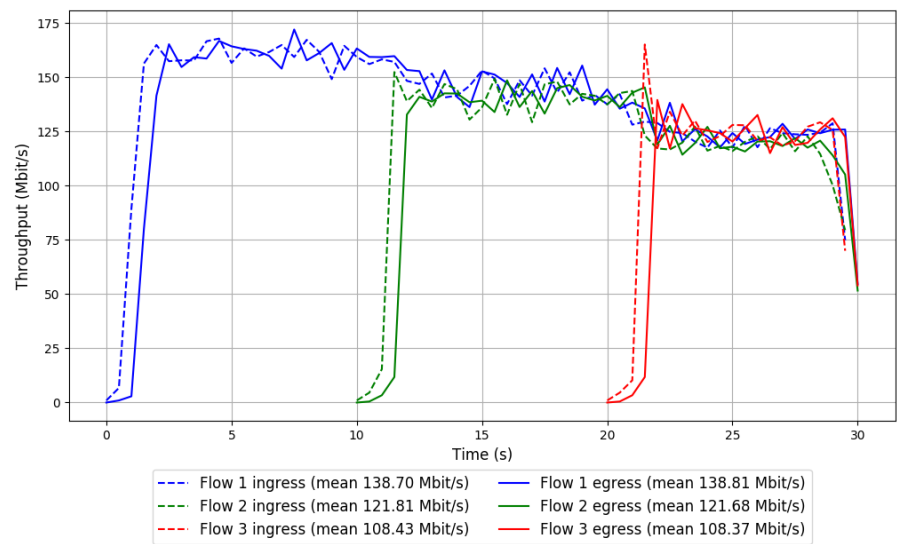


Run 6: Statistics of Indigo

Start at: 2018-06-19 01:38:36
End at: 2018-06-19 01:39:06
Local clock offset: 0.079 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.43 Mbit/s
95th percentile per-packet one-way delay: 91.865 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 138.81 Mbit/s
95th percentile per-packet one-way delay: 89.137 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 121.68 Mbit/s
95th percentile per-packet one-way delay: 92.607 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 108.37 Mbit/s
95th percentile per-packet one-way delay: 99.322 ms
Loss rate: 1.83%

Run 6: Report of Indigo — Data Link

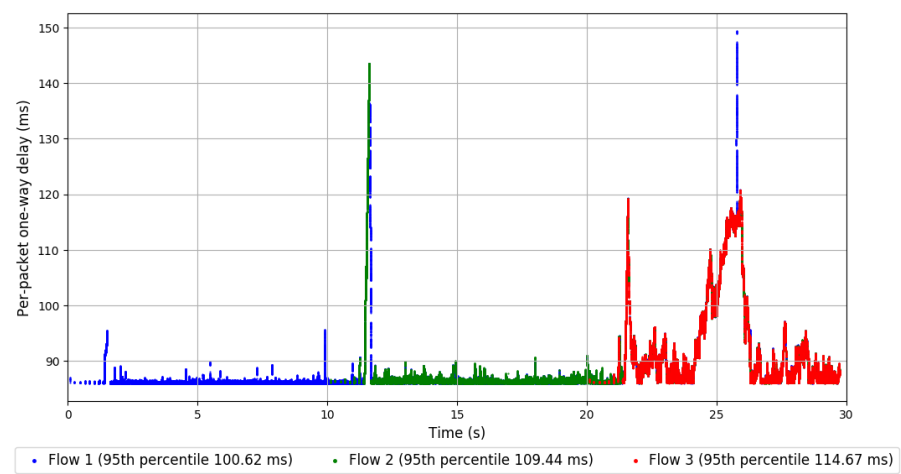
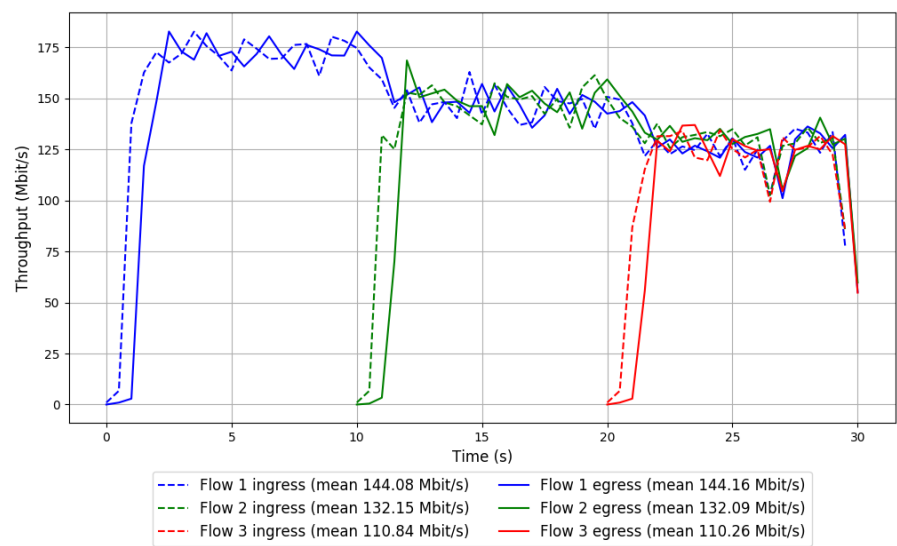


Run 7: Statistics of Indigo

Start at: 2018-06-19 02:01:47
End at: 2018-06-19 02:02:17
Local clock offset: 0.096 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.35 Mbit/s
95th percentile per-packet one-way delay: 107.862 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 144.16 Mbit/s
95th percentile per-packet one-way delay: 100.623 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 132.09 Mbit/s
95th percentile per-packet one-way delay: 109.439 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 110.26 Mbit/s
95th percentile per-packet one-way delay: 114.672 ms
Loss rate: 2.28%

Run 7: Report of Indigo — Data Link

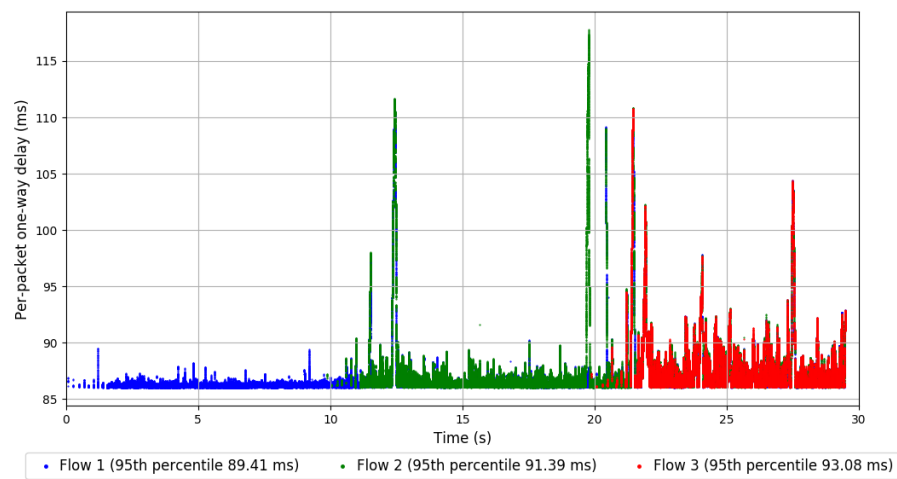
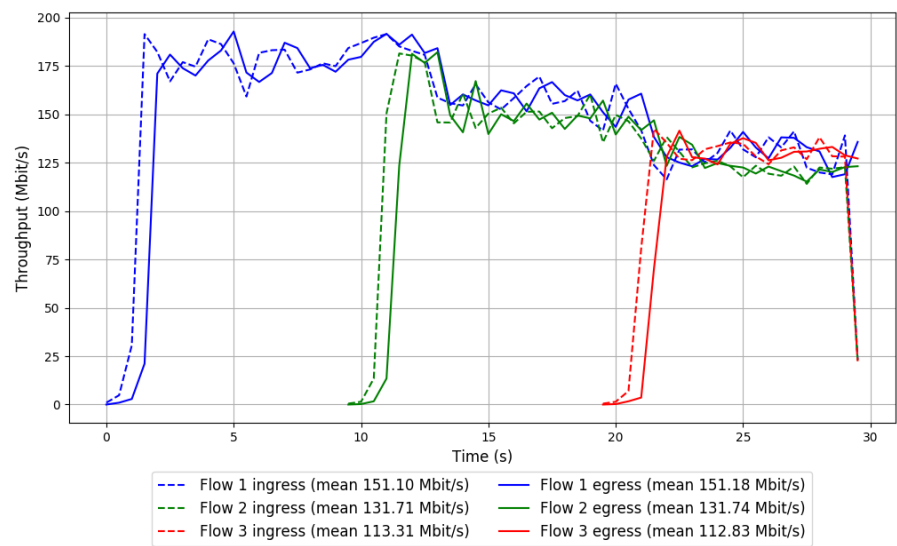


Run 8: Statistics of Indigo

Start at: 2018-06-19 02:24:58
End at: 2018-06-19 02:25:28
Local clock offset: 0.05 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 275.99 Mbit/s
95th percentile per-packet one-way delay: 90.684 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 151.18 Mbit/s
95th percentile per-packet one-way delay: 89.412 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 131.74 Mbit/s
95th percentile per-packet one-way delay: 91.385 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 112.83 Mbit/s
95th percentile per-packet one-way delay: 93.084 ms
Loss rate: 2.19%

Run 8: Report of Indigo — Data Link

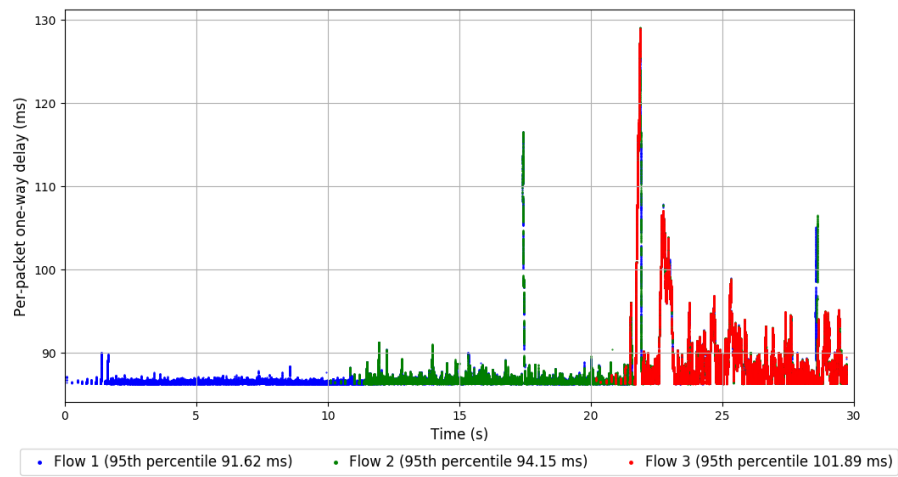
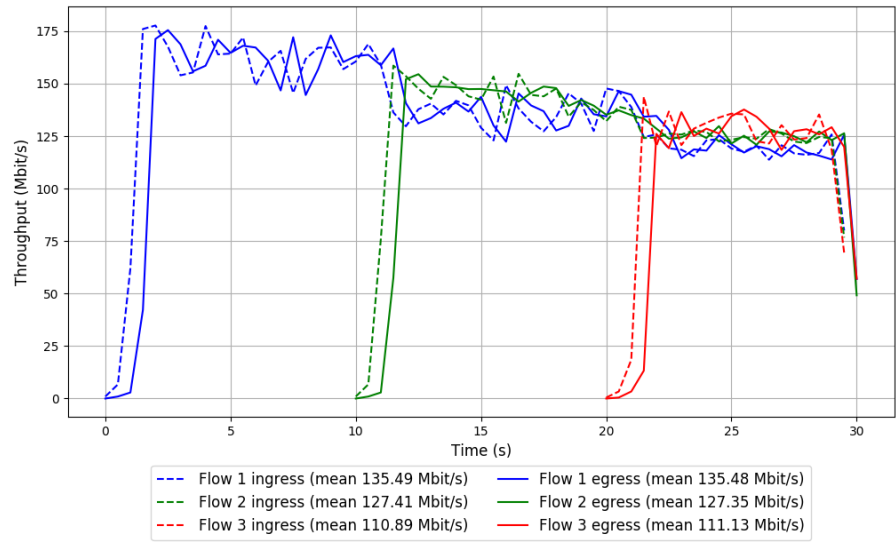


Run 9: Statistics of Indigo

Start at: 2018-06-19 02:48:02
End at: 2018-06-19 02:48:32
Local clock offset: 0.255 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 255.58 Mbit/s
95th percentile per-packet one-way delay: 94.177 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 135.48 Mbit/s
95th percentile per-packet one-way delay: 91.620 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 127.35 Mbit/s
95th percentile per-packet one-way delay: 94.149 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 111.13 Mbit/s
95th percentile per-packet one-way delay: 101.887 ms
Loss rate: 1.57%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 03:11:04

End at: 2018-06-19 03:11:34

Local clock offset: -0.037 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.06 Mbit/s

95th percentile per-packet one-way delay: 99.136 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 143.05 Mbit/s

95th percentile per-packet one-way delay: 98.108 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 121.36 Mbit/s

95th percentile per-packet one-way delay: 99.440 ms

Loss rate: 0.85%

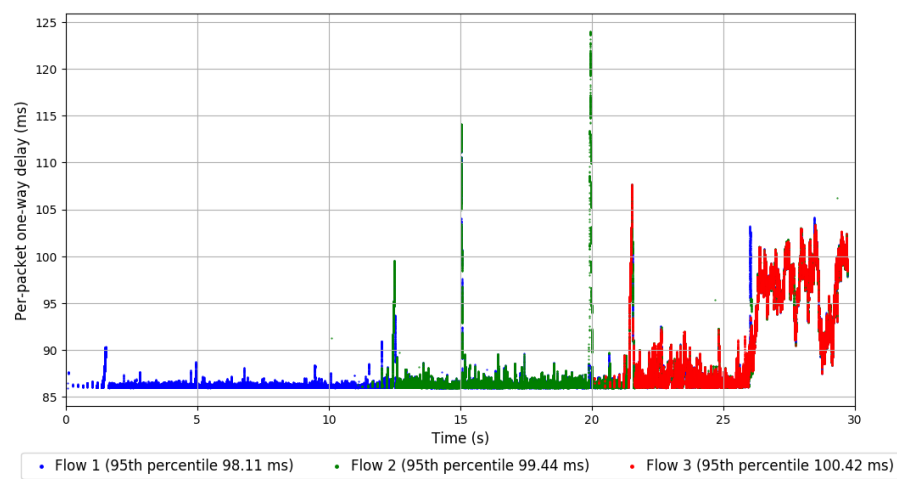
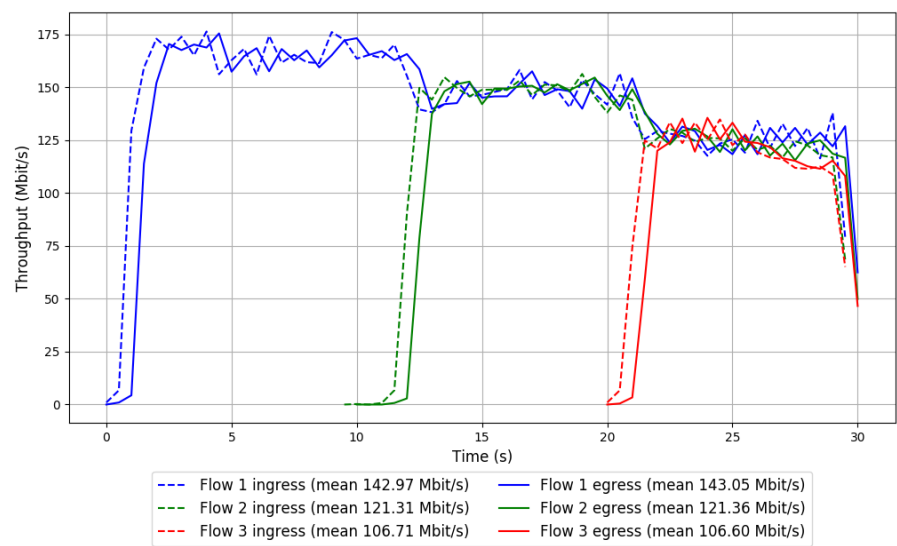
-- Flow 3:

Average throughput: 106.60 Mbit/s

95th percentile per-packet one-way delay: 100.424 ms

Loss rate: 1.86%

Run 10: Report of Indigo — Data Link

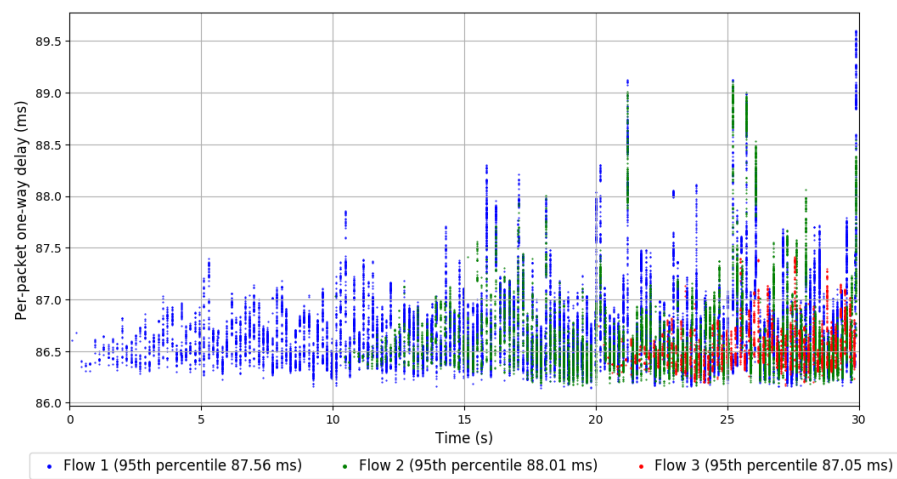
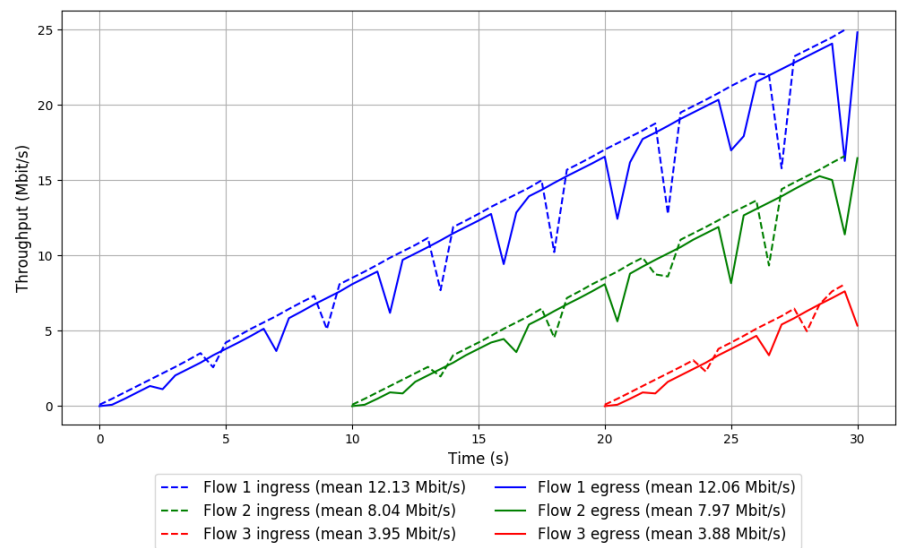


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-18 23:58:18
End at: 2018-06-18 23:58:48
Local clock offset: 0.113 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-06-19 04:42:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 87.588 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 87.559 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 88.011 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 87.045 ms
Loss rate: 3.52%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-19 00:21:25

End at: 2018-06-19 00:21:55

Local clock offset: -0.201 ms

Remote clock offset: 0.533 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 87.317 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 87.406 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 87.123 ms

Loss rate: 1.78%

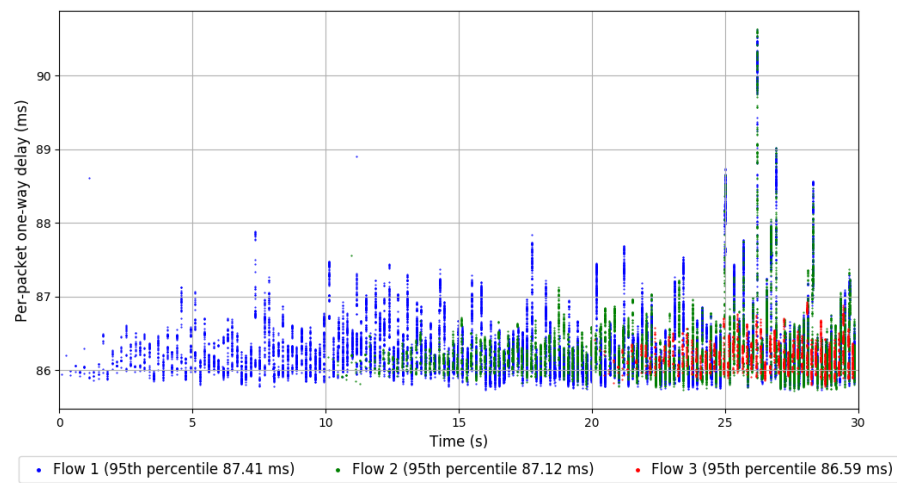
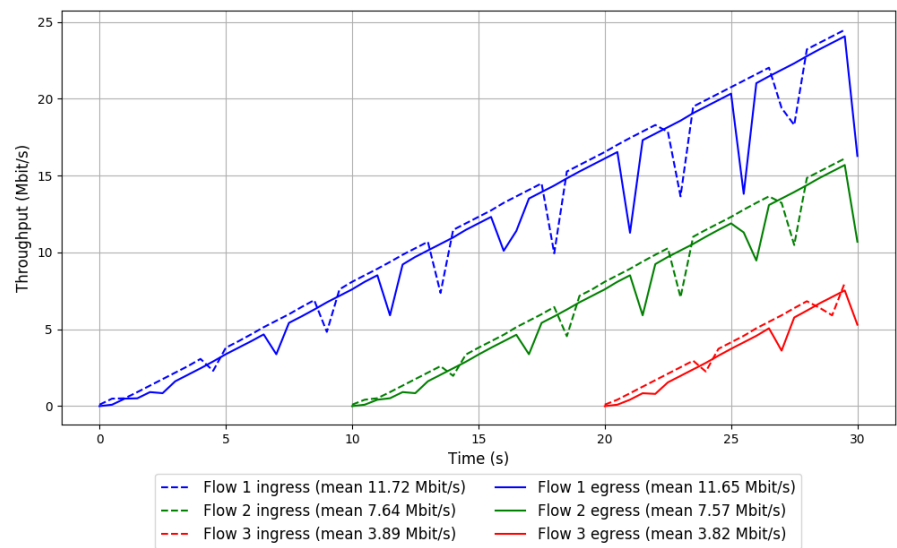
-- Flow 3:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 86.587 ms

Loss rate: 3.55%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-19 00:44:30

End at: 2018-06-19 00:45:00

Local clock offset: 0.23 ms

Remote clock offset: 0.76 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.35 Mbit/s

95th percentile per-packet one-way delay: 87.722 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 87.842 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 87.393 ms

Loss rate: 1.74%

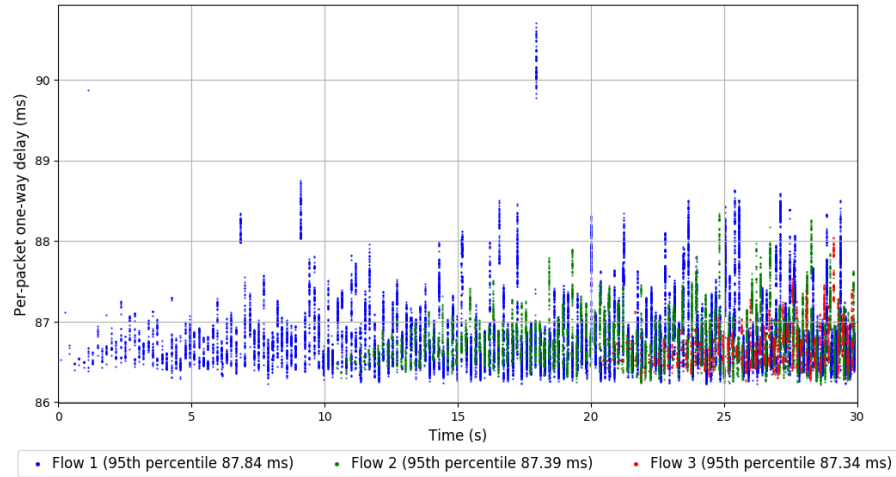
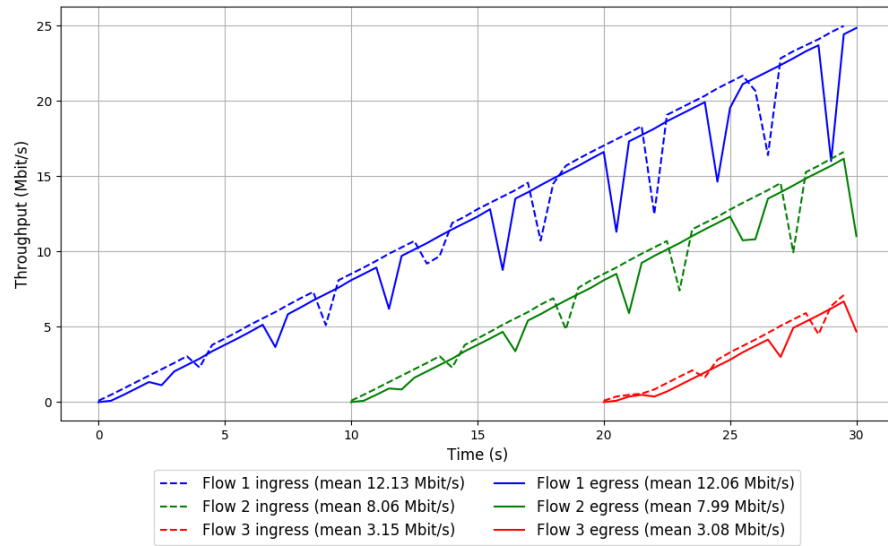
-- Flow 3:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 87.340 ms

Loss rate: 3.89%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-19 01:07:56

End at: 2018-06-19 01:08:26

Local clock offset: -0.32 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 87.192 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 87.236 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 86.982 ms

Loss rate: 1.74%

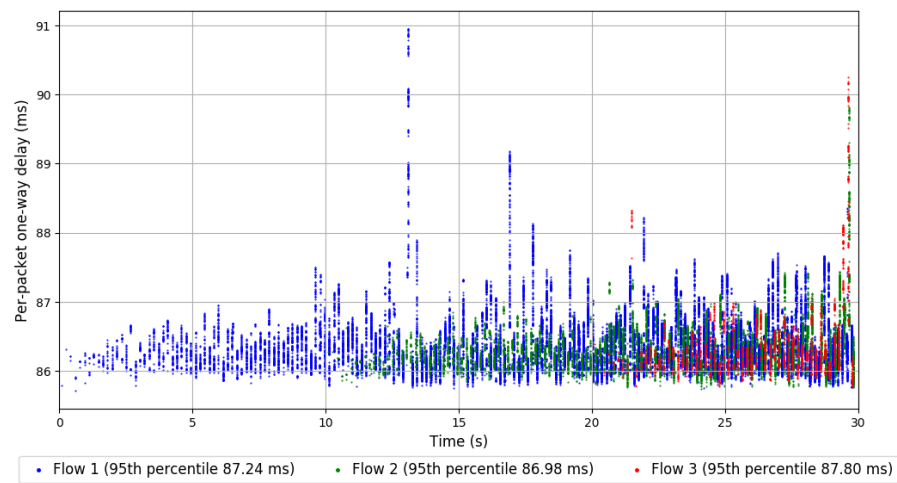
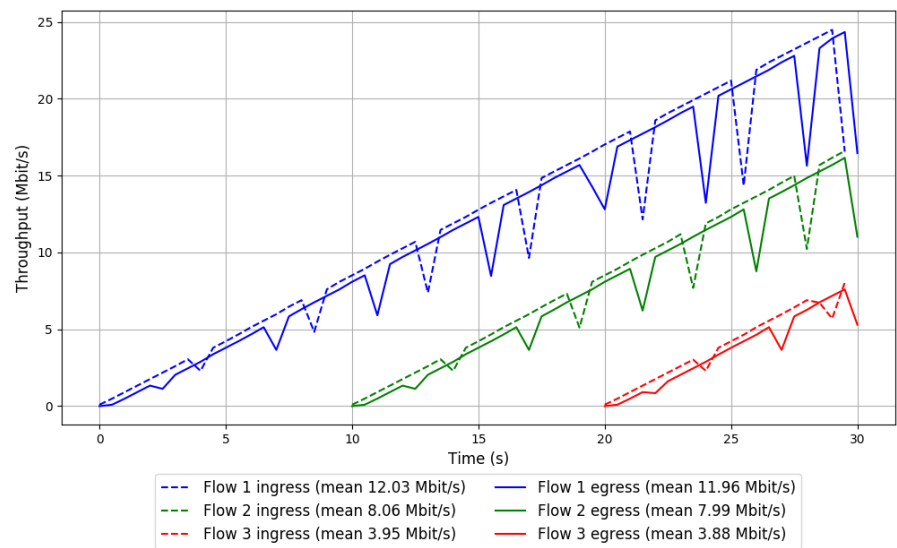
-- Flow 3:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 87.796 ms

Loss rate: 3.53%

Run 4: Report of LEDBAT — Data Link

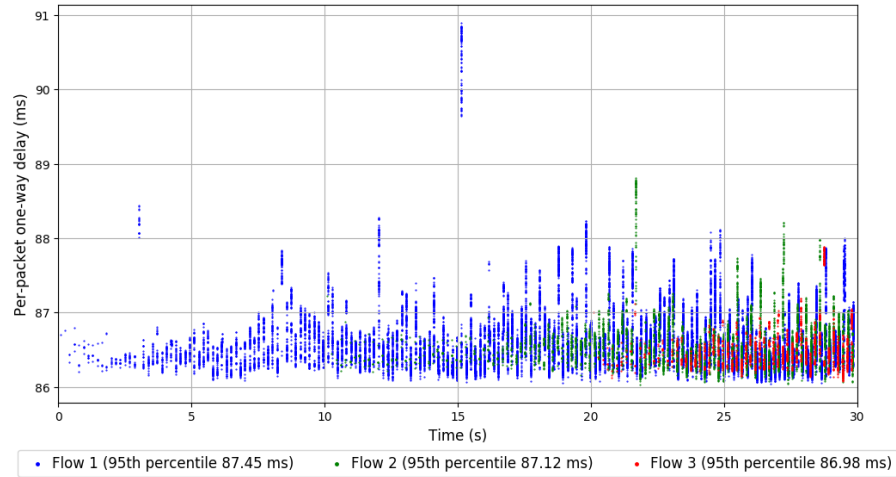
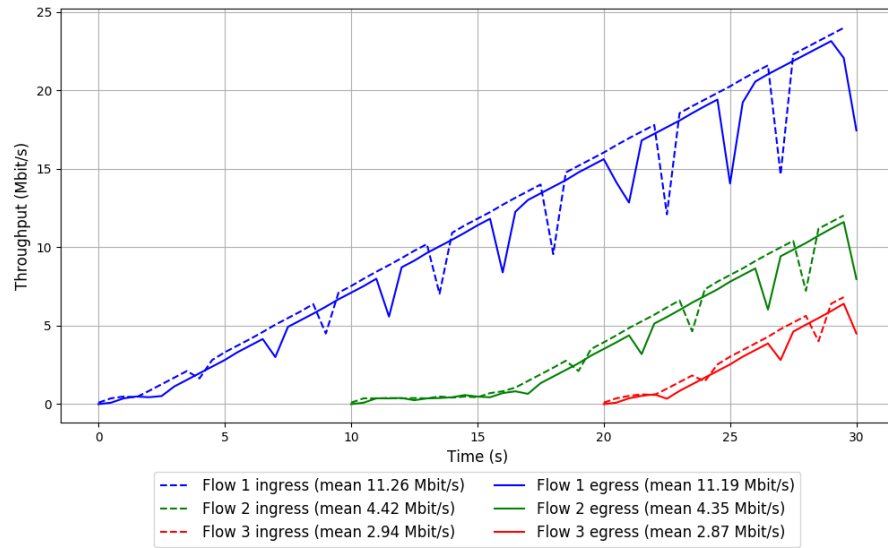


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 01:31:11
End at: 2018-06-19 01:31:41
Local clock offset: 0.106 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.00 Mbit/s
95th percentile per-packet one-way delay: 87.387 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 87.450 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 87.121 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 86.976 ms
Loss rate: 4.01%

Run 5: Report of LEDBAT — Data Link

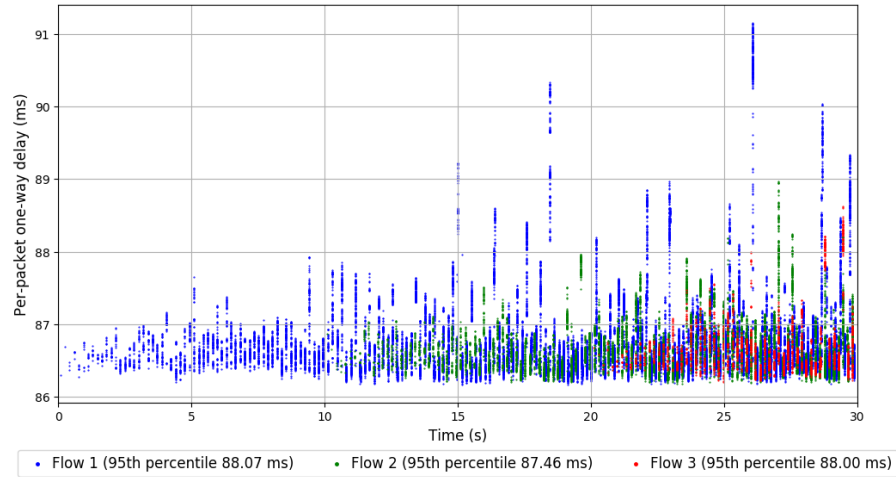
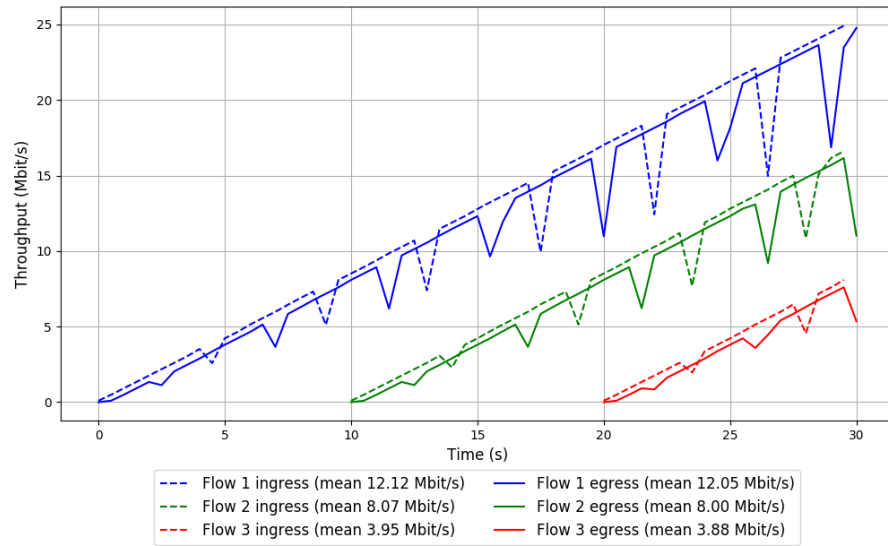


Run 6: Statistics of LEDBAT

Start at: 2018-06-19 01:54:21
End at: 2018-06-19 01:54:51
Local clock offset: 0.282 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 87.748 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 88.069 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 87.457 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 87.997 ms
Loss rate: 3.52%

Run 6: Report of LEDBAT — Data Link

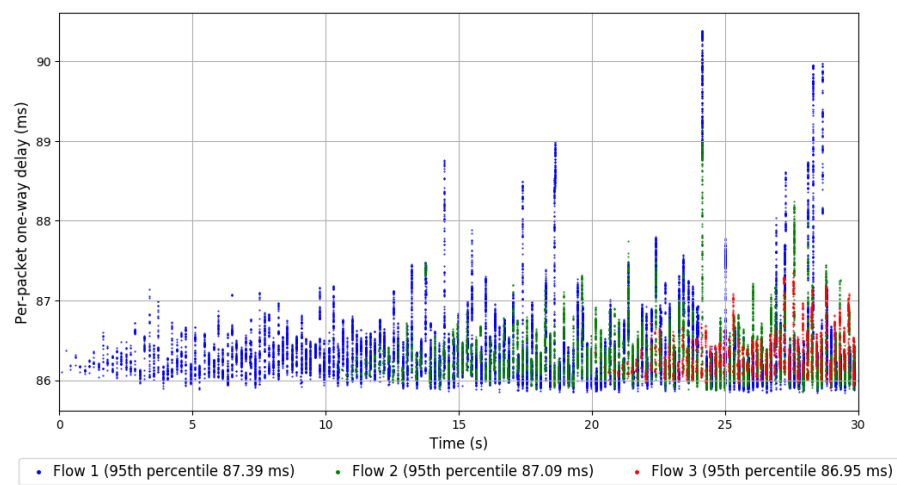
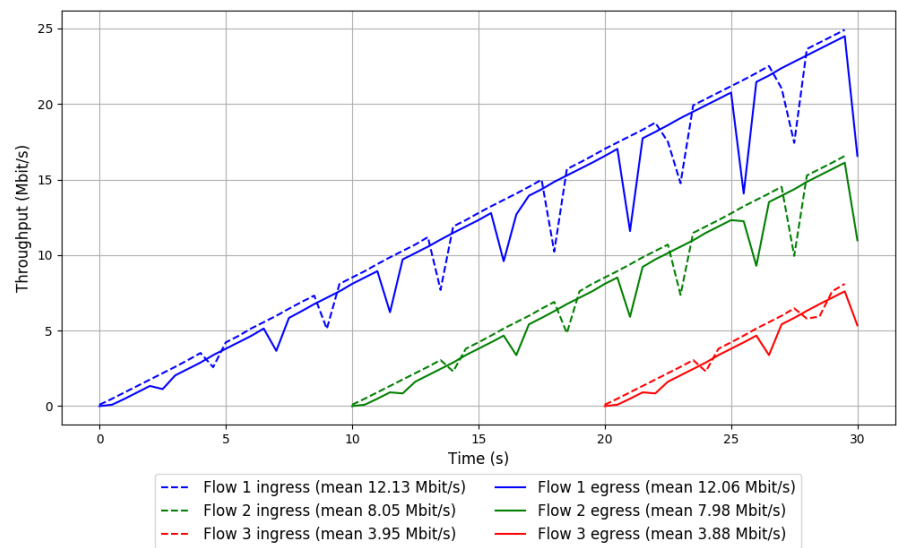


Run 7: Statistics of LEDBAT

Start at: 2018-06-19 02:17:25
End at: 2018-06-19 02:17:55
Local clock offset: -0.136 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.62 Mbit/s
95th percentile per-packet one-way delay: 87.243 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 87.394 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 87.092 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 86.950 ms
Loss rate: 3.52%

Run 7: Report of LEDBAT — Data Link

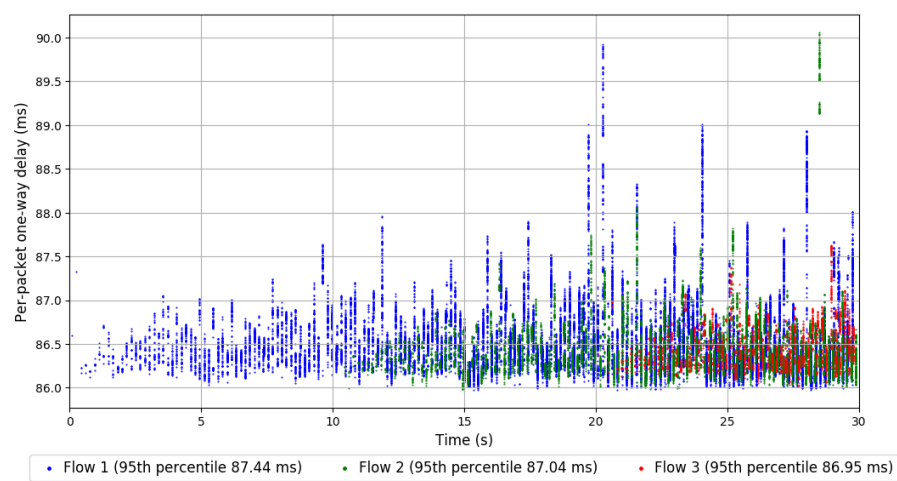
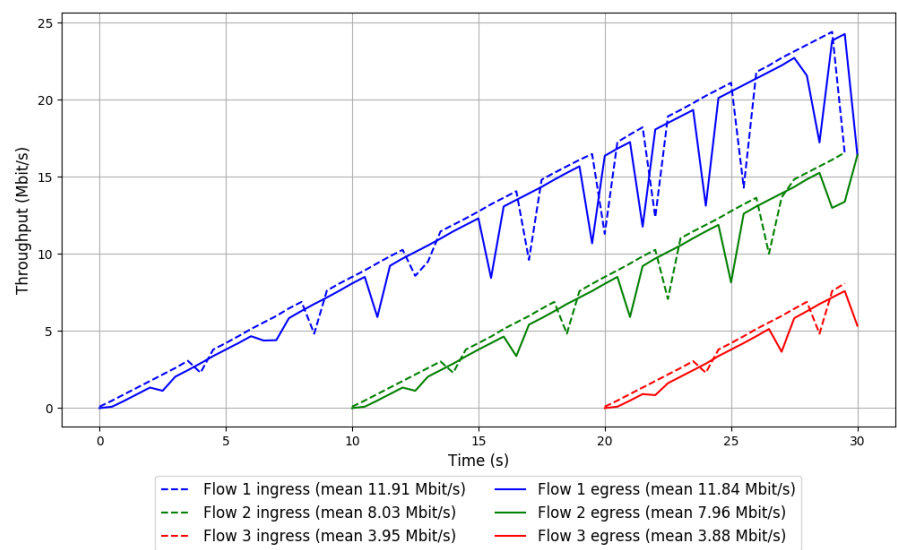


Run 8: Statistics of LEDBAT

Start at: 2018-06-19 02:40:30
End at: 2018-06-19 02:41:00
Local clock offset: 0.062 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 87.314 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 87.445 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 87.043 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 86.951 ms
Loss rate: 3.52%

Run 8: Report of LEDBAT — Data Link

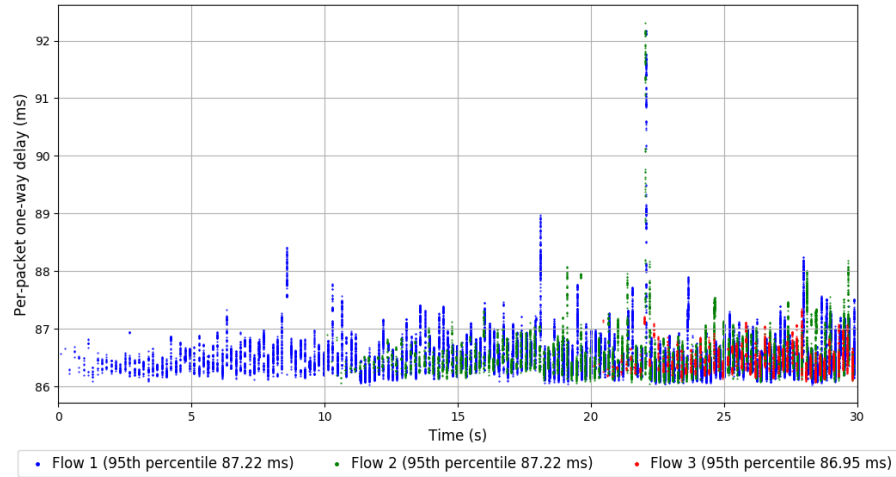
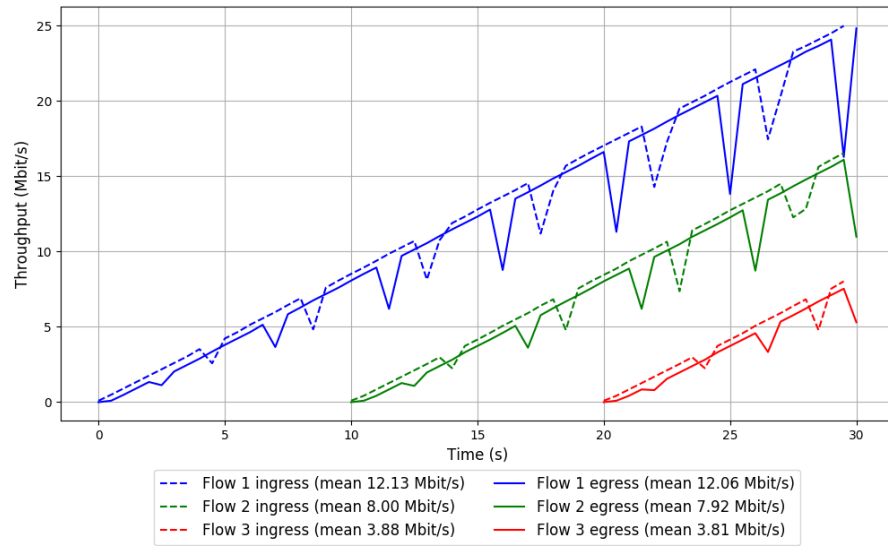


Run 9: Statistics of LEDBAT

Start at: 2018-06-19 03:03:32
End at: 2018-06-19 03:04:02
Local clock offset: 0.047 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 87.193 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 87.218 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 87.217 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 86.952 ms
Loss rate: 3.55%

Run 9: Report of LEDBAT — Data Link

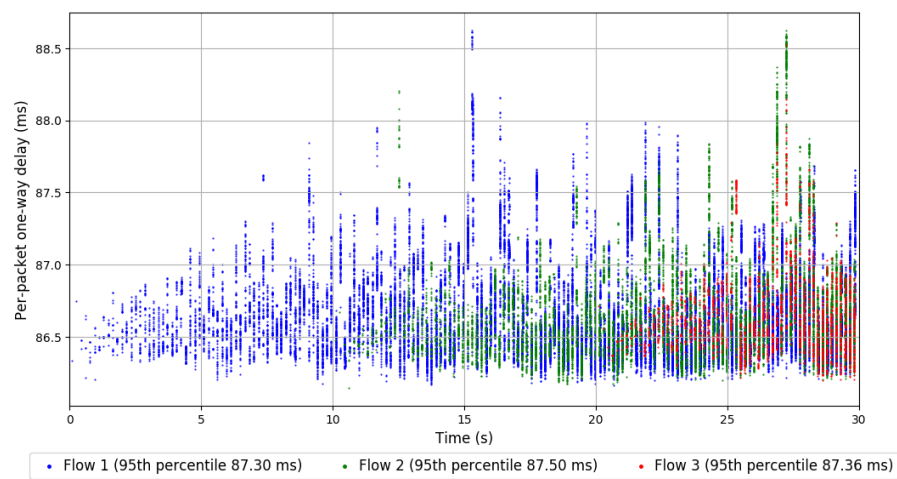
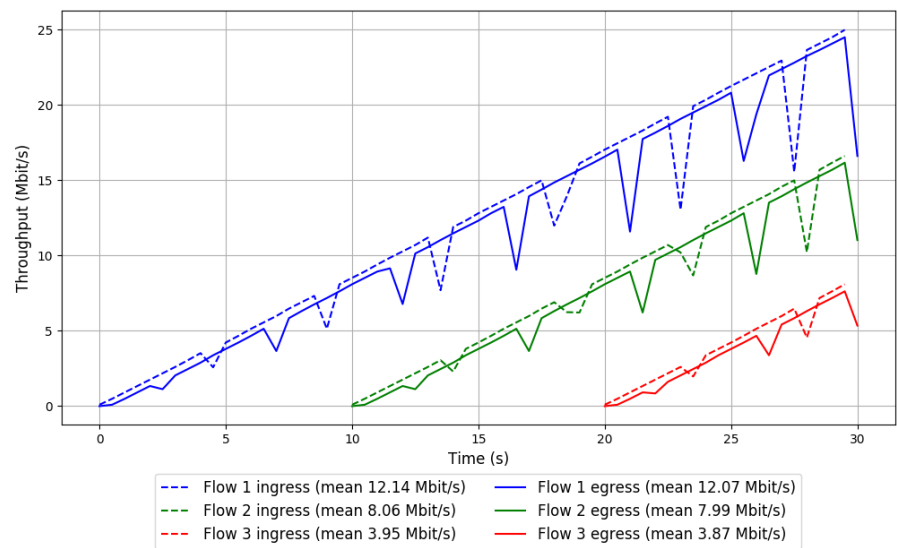


Run 10: Statistics of LEDBAT

Start at: 2018-06-19 03:26:47
End at: 2018-06-19 03:27:17
Local clock offset: 0.119 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.64 Mbit/s
95th percentile per-packet one-way delay: 87.359 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 87.295 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 87.501 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.356 ms
Loss rate: 3.52%

Run 10: Report of LEDBAT — Data Link

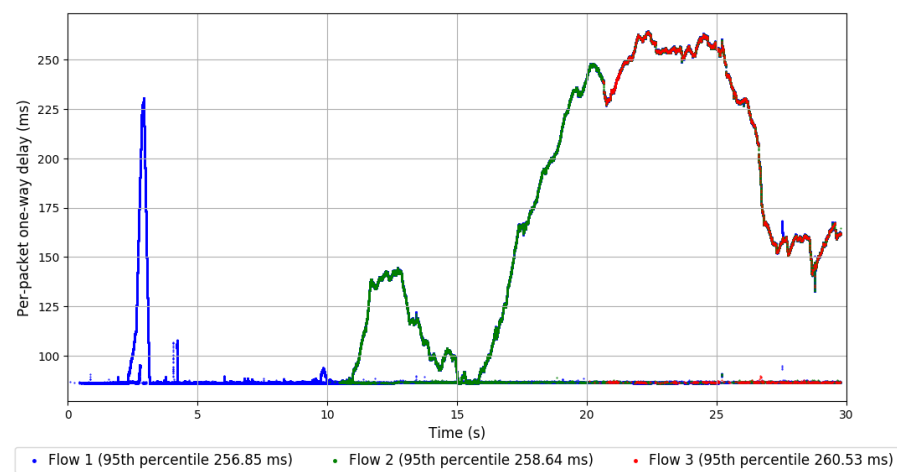
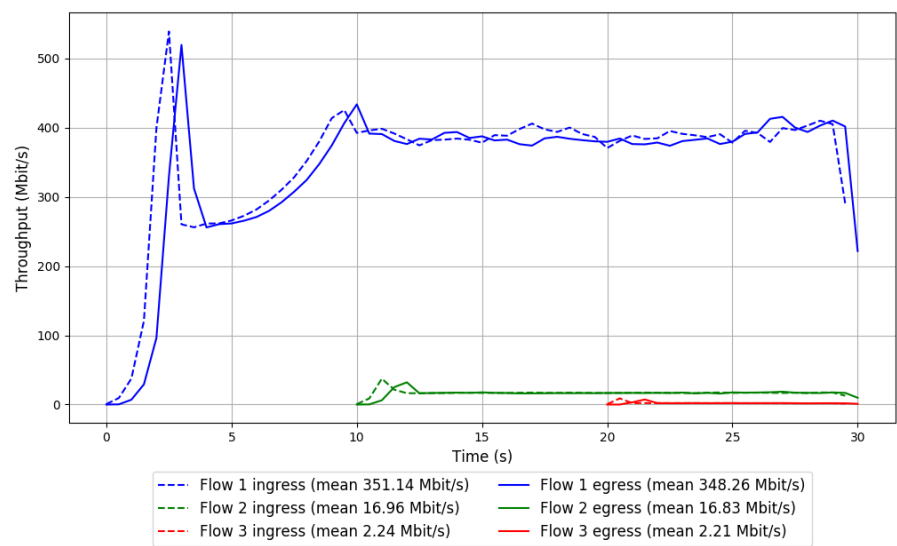


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 23:51:15
End at: 2018-06-18 23:51:45
Local clock offset: 0.044 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.10 Mbit/s
95th percentile per-packet one-way delay: 256.927 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 348.26 Mbit/s
95th percentile per-packet one-way delay: 256.846 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 258.645 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 260.526 ms
Loss rate: 3.03%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 00:14:23

End at: 2018-06-19 00:14:53

Local clock offset: 0.138 ms

Remote clock offset: 0.403 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.89 Mbit/s

95th percentile per-packet one-way delay: 147.165 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 335.13 Mbit/s

95th percentile per-packet one-way delay: 146.444 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 145.975 ms

Loss rate: 0.91%

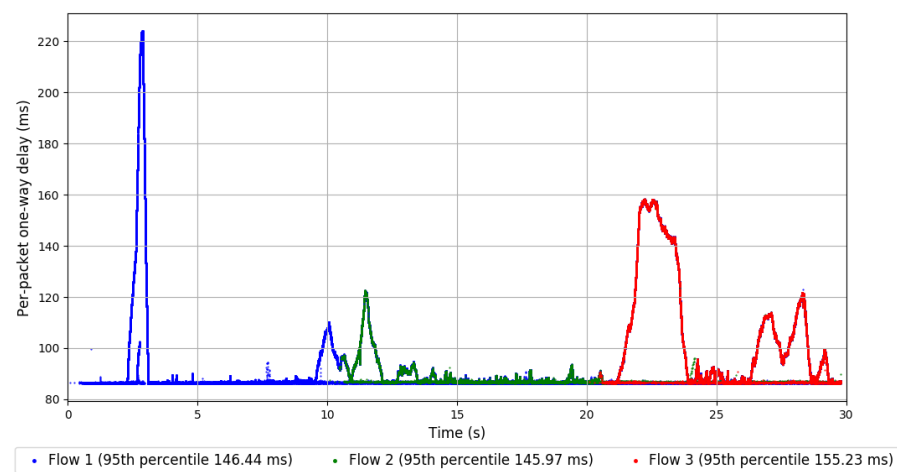
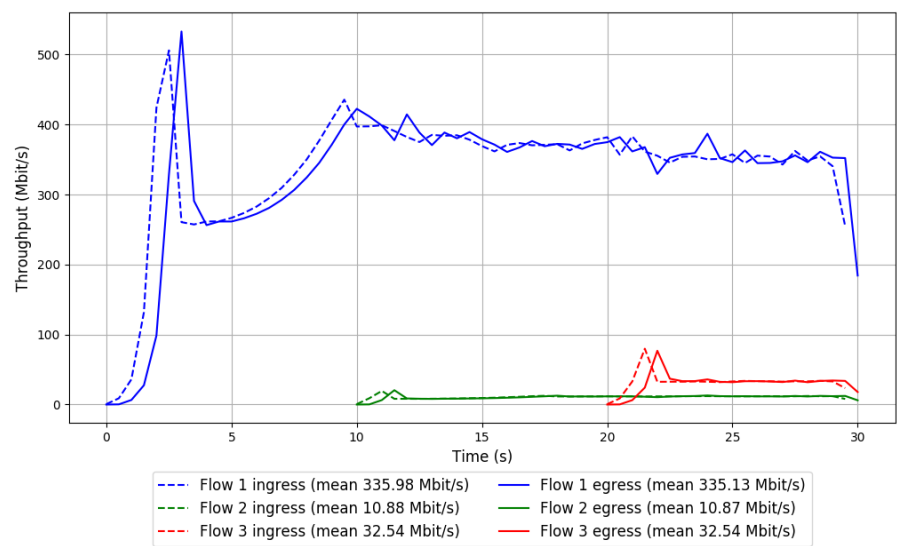
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 155.228 ms

Loss rate: 1.76%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 00:37:28

End at: 2018-06-19 00:37:58

Local clock offset: 0.181 ms

Remote clock offset: 0.762 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.84 Mbit/s

95th percentile per-packet one-way delay: 170.604 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 138.35 Mbit/s

95th percentile per-packet one-way delay: 168.695 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 126.88 Mbit/s

95th percentile per-packet one-way delay: 175.193 ms

Loss rate: 1.23%

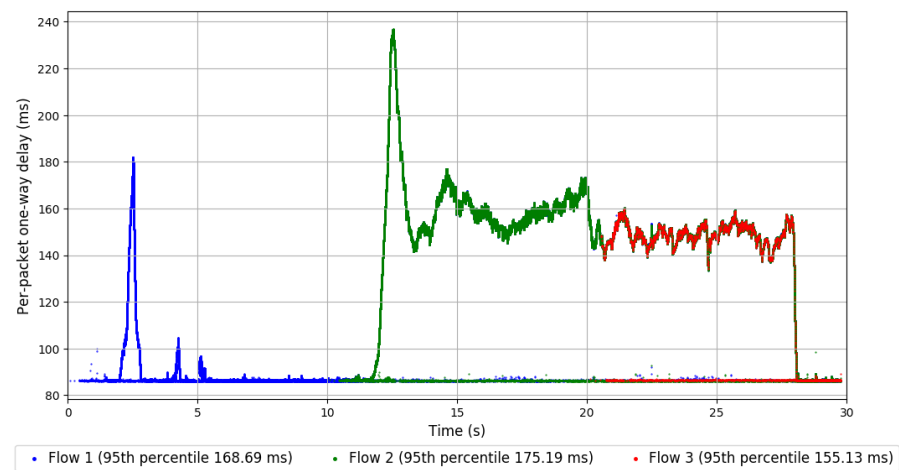
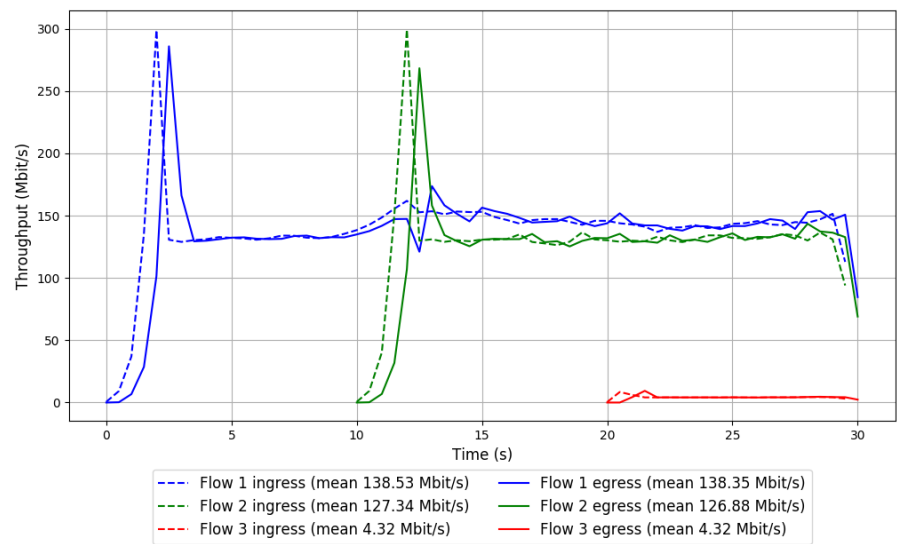
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 155.132 ms

Loss rate: 1.75%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 01:00:40

End at: 2018-06-19 01:01:10

Local clock offset: -0.209 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 367.88 Mbit/s

95th percentile per-packet one-way delay: 134.571 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 354.61 Mbit/s

95th percentile per-packet one-way delay: 133.502 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 127.997 ms

Loss rate: 0.83%

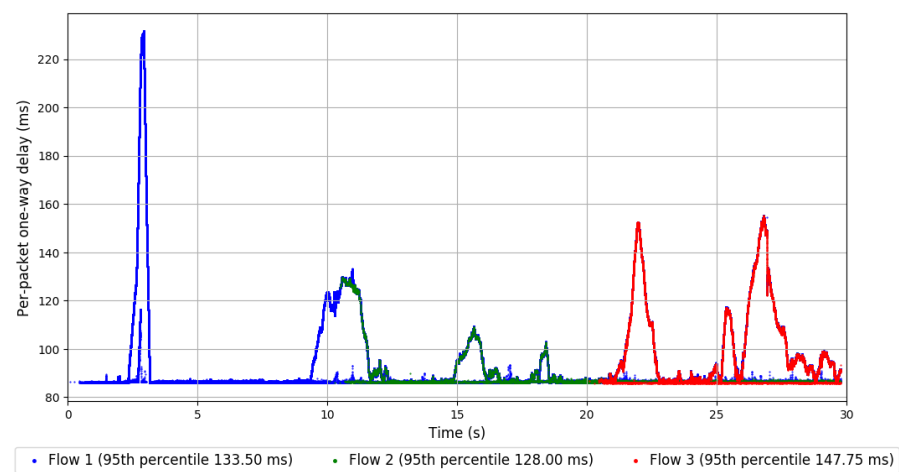
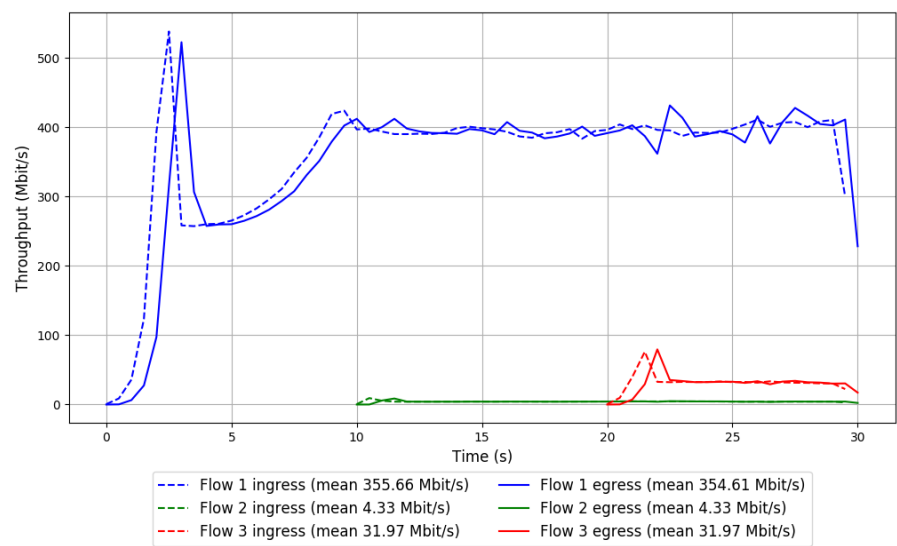
-- Flow 3:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 147.752 ms

Loss rate: 1.73%

Run 4: Report of PCC-Allegro — Data Link

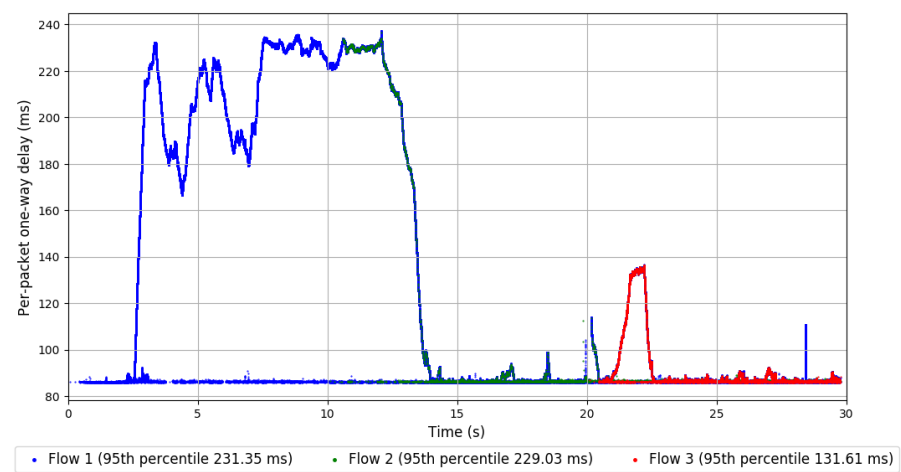
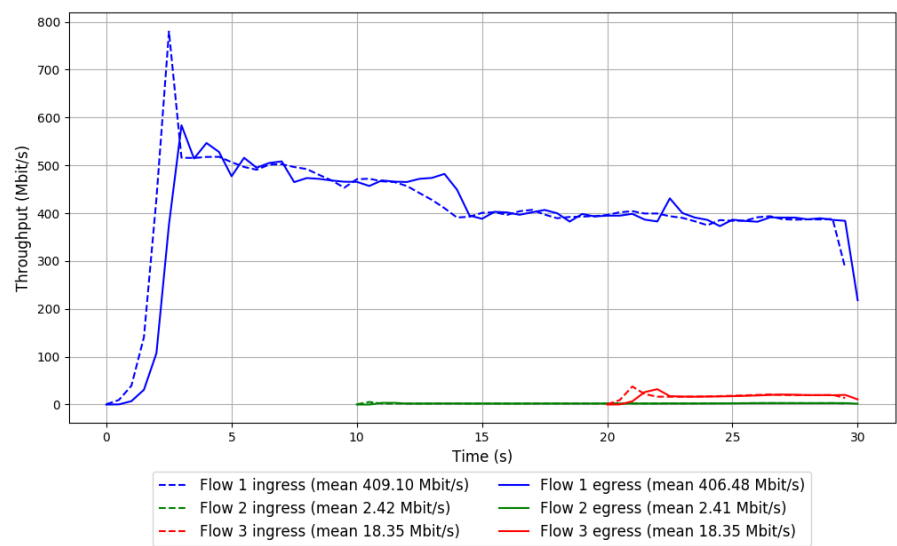


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 01:23:59
End at: 2018-06-19 01:24:29
Local clock offset: -0.016 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 414.04 Mbit/s
95th percentile per-packet one-way delay: 231.294 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 406.48 Mbit/s
95th percentile per-packet one-way delay: 231.349 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 229.035 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 18.35 Mbit/s
95th percentile per-packet one-way delay: 131.606 ms
Loss rate: 1.77%

Run 5: Report of PCC-Allegro — Data Link

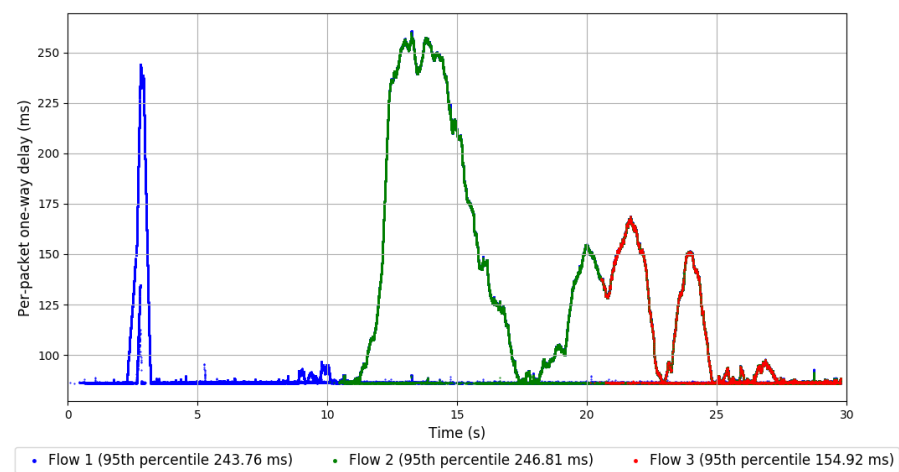
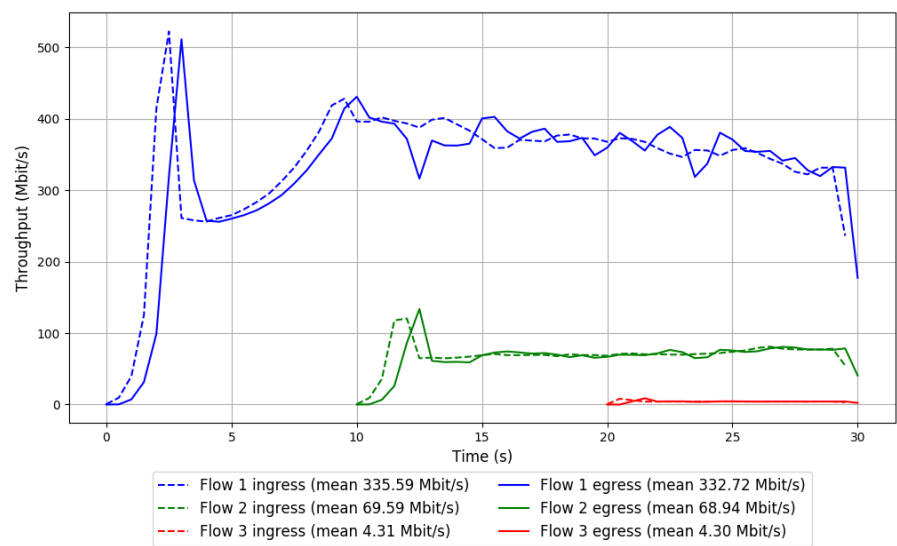


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 01:47:14
End at: 2018-06-19 01:47:44
Local clock offset: -0.039 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 379.82 Mbit/s
95th percentile per-packet one-way delay: 244.584 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 332.72 Mbit/s
95th percentile per-packet one-way delay: 243.759 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 68.94 Mbit/s
95th percentile per-packet one-way delay: 246.812 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 154.917 ms
Loss rate: 1.84%

Run 6: Report of PCC-Allegro — Data Link

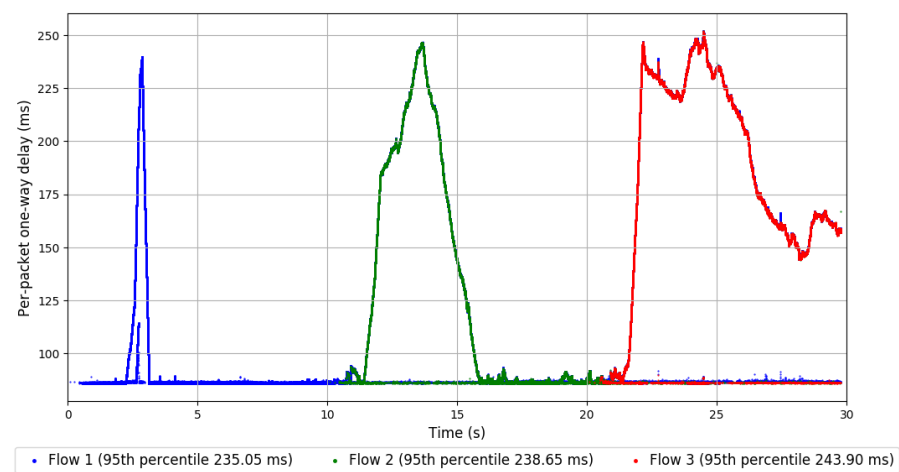
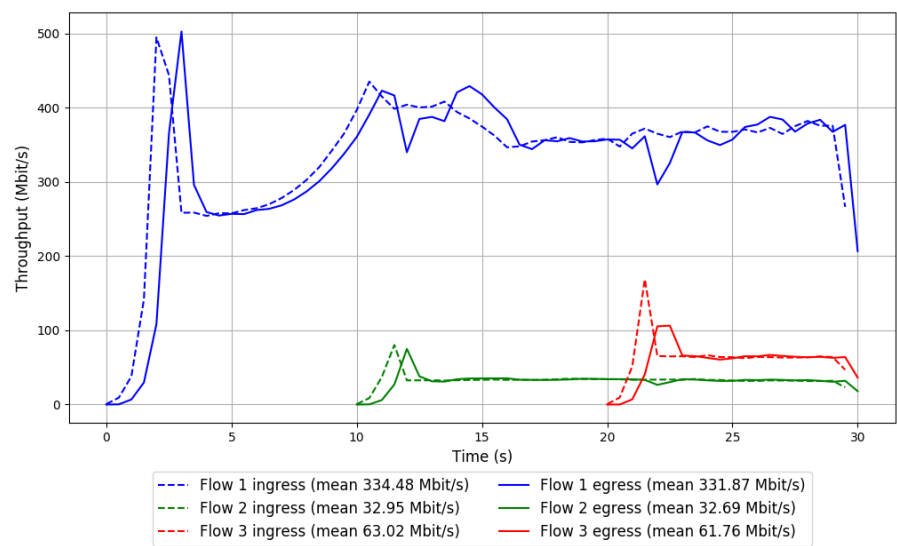


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 02:10:31
End at: 2018-06-19 02:11:01
Local clock offset: 0.098 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 373.54 Mbit/s
95th percentile per-packet one-way delay: 235.526 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 331.87 Mbit/s
95th percentile per-packet one-way delay: 235.054 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 238.651 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 61.76 Mbit/s
95th percentile per-packet one-way delay: 243.902 ms
Loss rate: 3.72%

Run 7: Report of PCC-Allegro — Data Link

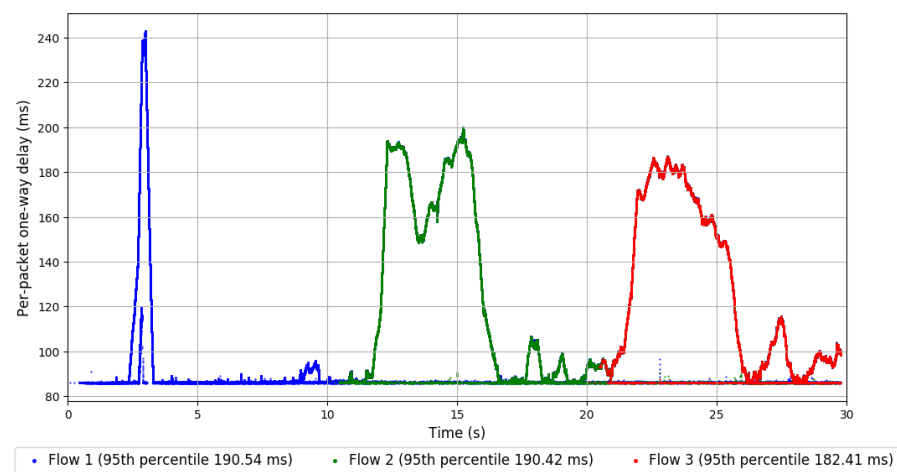
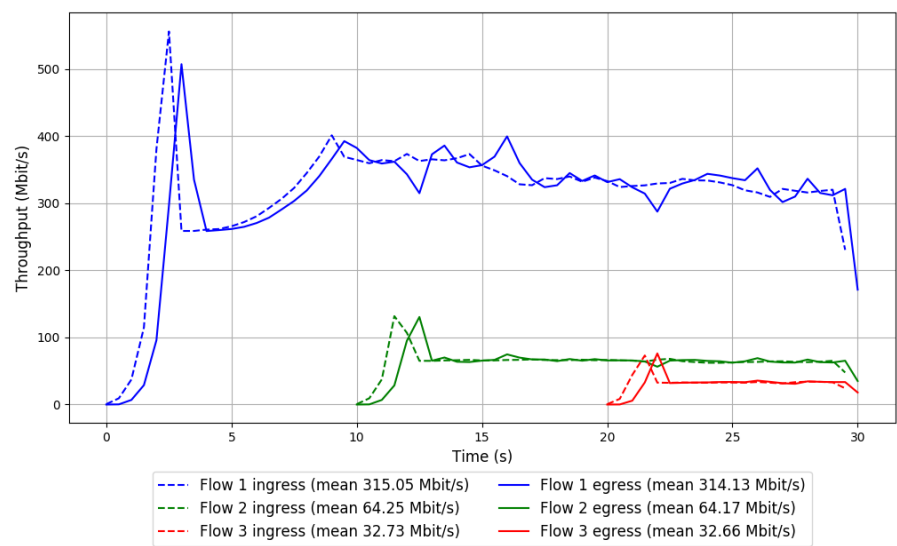


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 02:33:29
End at: 2018-06-19 02:33:59
Local clock offset: -0.062 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 367.28 Mbit/s
95th percentile per-packet one-way delay: 190.395 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 314.13 Mbit/s
95th percentile per-packet one-way delay: 190.541 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 64.17 Mbit/s
95th percentile per-packet one-way delay: 190.418 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 182.414 ms
Loss rate: 1.95%

Run 8: Report of PCC-Allegro — Data Link

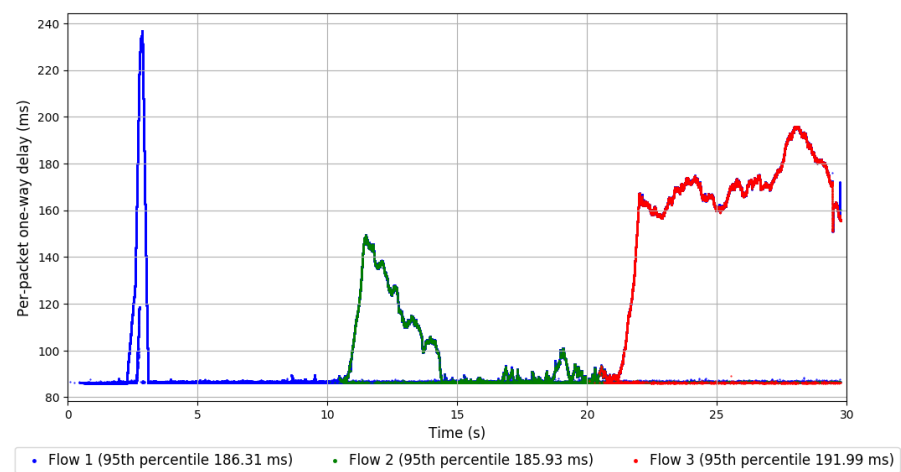
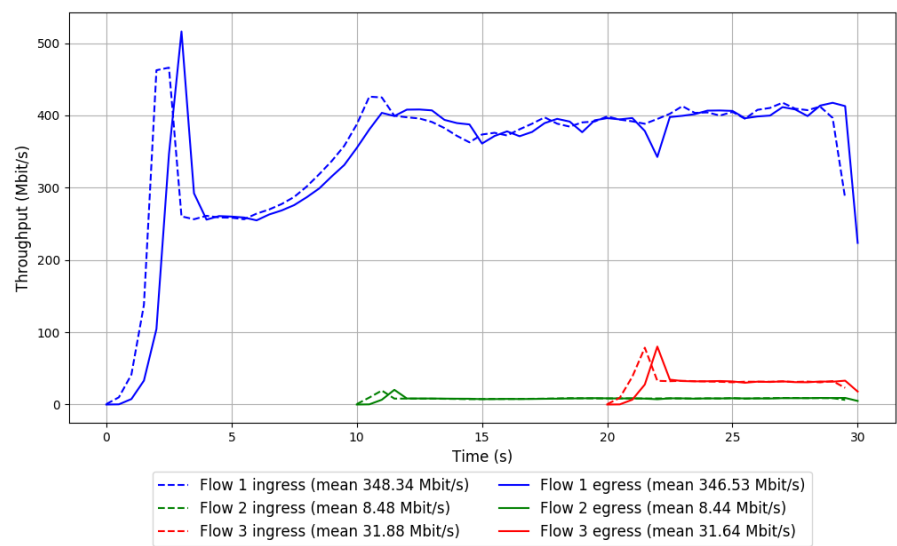


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 02:56:35
End at: 2018-06-19 02:57:05
Local clock offset: 0.131 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-19 04:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 362.37 Mbit/s
95th percentile per-packet one-way delay: 186.732 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 346.53 Mbit/s
95th percentile per-packet one-way delay: 186.307 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 185.933 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 191.990 ms
Loss rate: 2.50%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 03:19:44

End at: 2018-06-19 03:20:14

Local clock offset: -0.224 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-19 04:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.44 Mbit/s

95th percentile per-packet one-way delay: 125.201 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 350.13 Mbit/s

95th percentile per-packet one-way delay: 125.286 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 123.749 ms

Loss rate: 1.03%

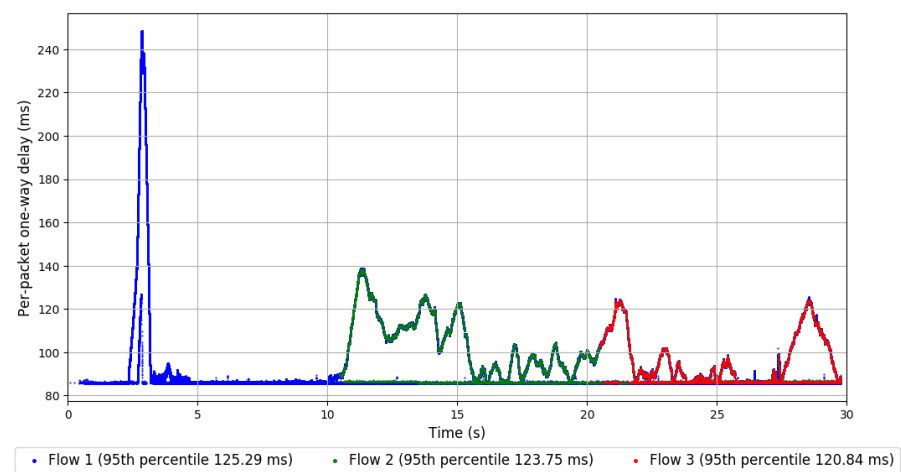
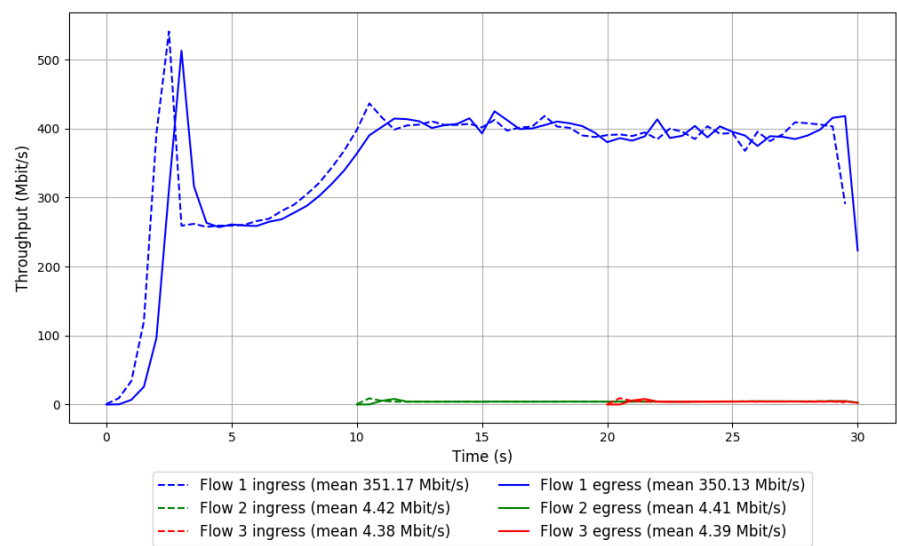
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 120.844 ms

Loss rate: 1.71%

Run 10: Report of PCC-Allegro — Data Link

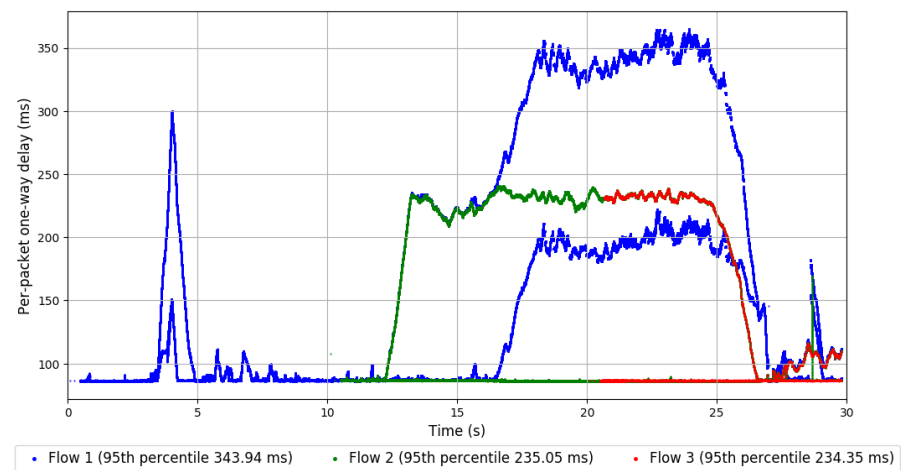
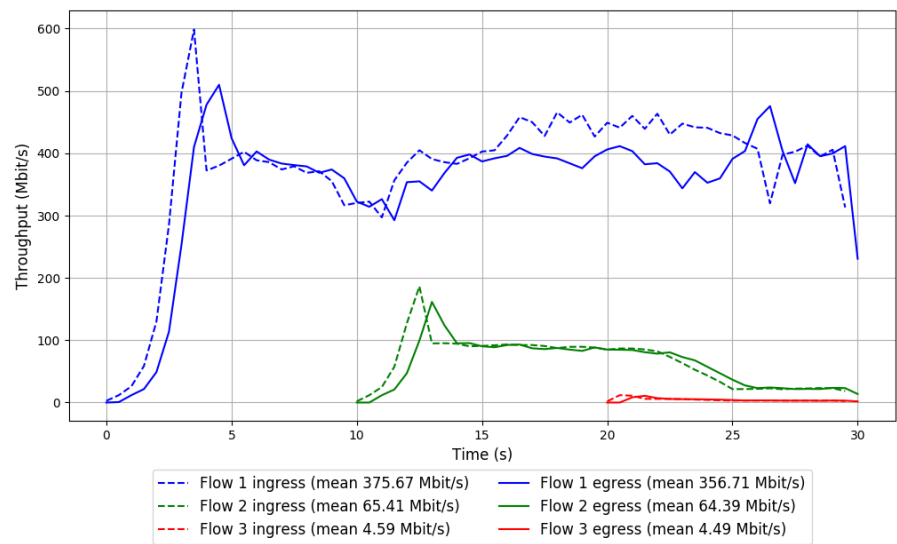


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 23:46:51
End at: 2018-06-18 23:47:21
Local clock offset: -0.02 ms
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2018-06-19 04:49:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.83 Mbit/s
95th percentile per-packet one-way delay: 342.515 ms
Loss rate: 5.27%
-- Flow 1:
Average throughput: 356.71 Mbit/s
95th percentile per-packet one-way delay: 343.940 ms
Loss rate: 5.60%
-- Flow 2:
Average throughput: 64.39 Mbit/s
95th percentile per-packet one-way delay: 235.046 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 234.350 ms
Loss rate: 3.92%
```

Run 1: Report of PCC-Expr — Data Link

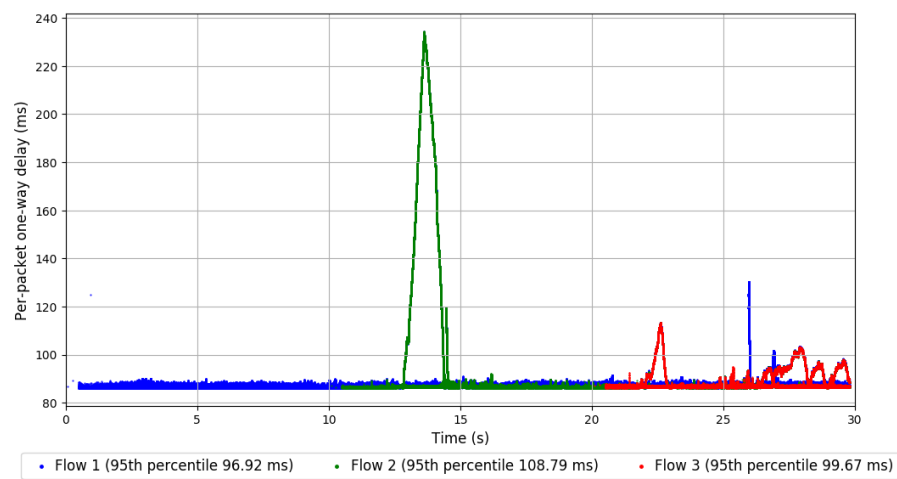
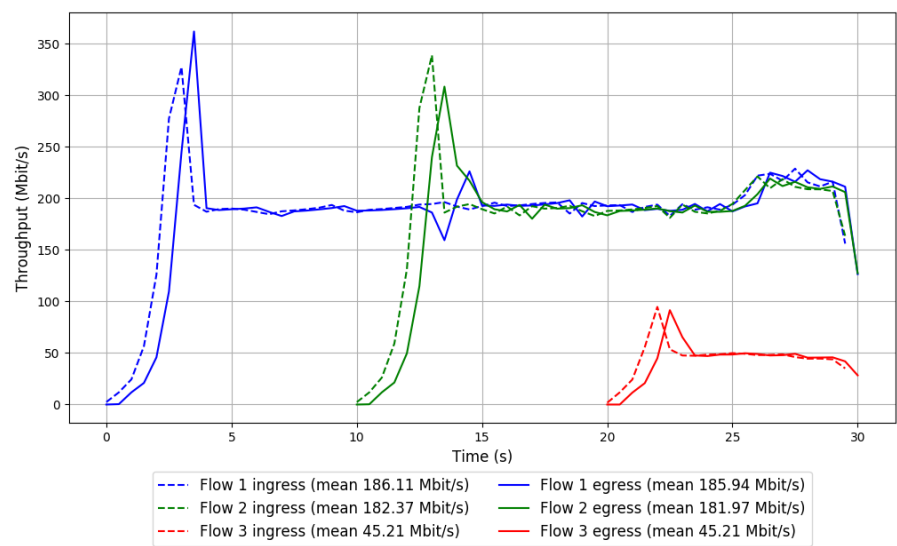


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 00:10:05
End at: 2018-06-19 00:10:35
Local clock offset: 0.111 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-06-19 04:49:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 321.36 Mbit/s
95th percentile per-packet one-way delay: 100.307 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 185.94 Mbit/s
95th percentile per-packet one-way delay: 96.923 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 181.97 Mbit/s
95th percentile per-packet one-way delay: 108.790 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 45.21 Mbit/s
95th percentile per-packet one-way delay: 99.669 ms
Loss rate: 1.76%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 00:33:06

End at: 2018-06-19 00:33:36

Local clock offset: -0.057 ms

Remote clock offset: 0.614 ms

Below is generated by plot.py at 2018-06-19 04:49:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.59 Mbit/s

95th percentile per-packet one-way delay: 113.118 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 261.67 Mbit/s

95th percentile per-packet one-way delay: 112.552 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 110.048 ms

Loss rate: 1.43%

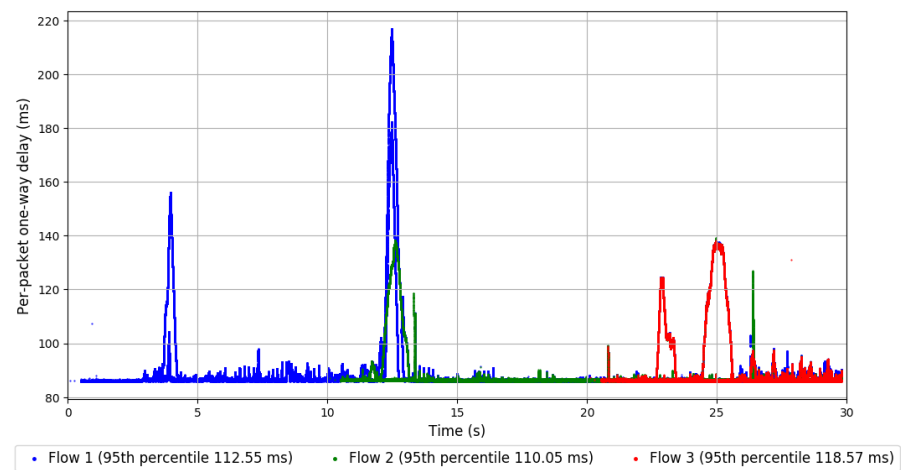
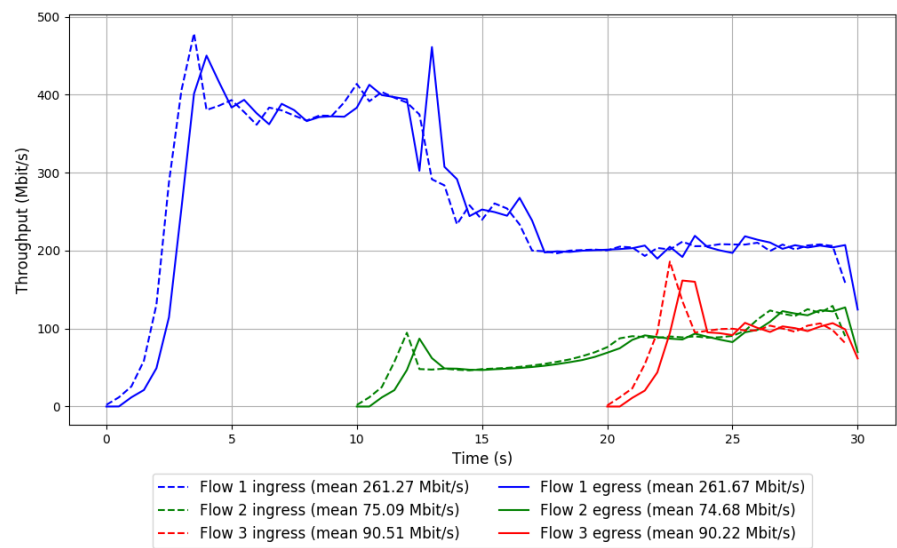
-- Flow 3:

Average throughput: 90.22 Mbit/s

95th percentile per-packet one-way delay: 118.566 ms

Loss rate: 2.07%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 00:56:06

End at: 2018-06-19 00:56:36

Local clock offset: -0.006 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-06-19 04:49:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.92 Mbit/s

95th percentile per-packet one-way delay: 88.622 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 186.79 Mbit/s

95th percentile per-packet one-way delay: 88.414 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 106.45 Mbit/s

95th percentile per-packet one-way delay: 89.687 ms

Loss rate: 1.07%

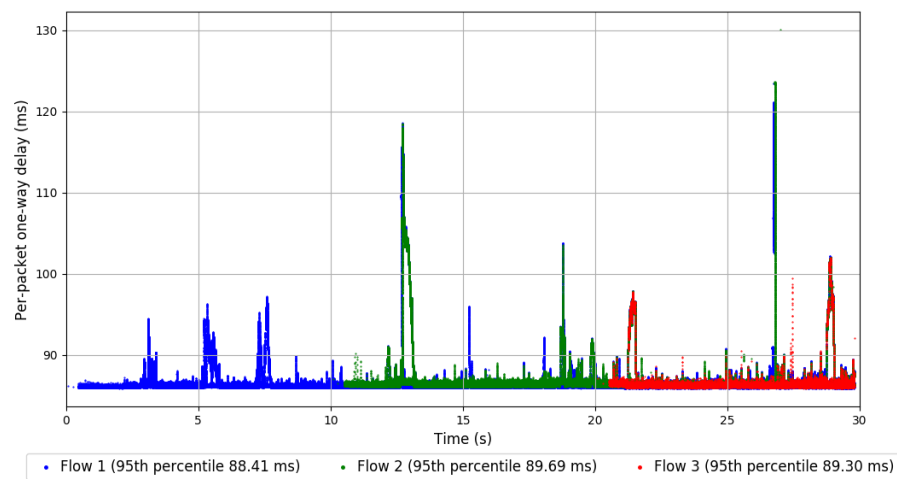
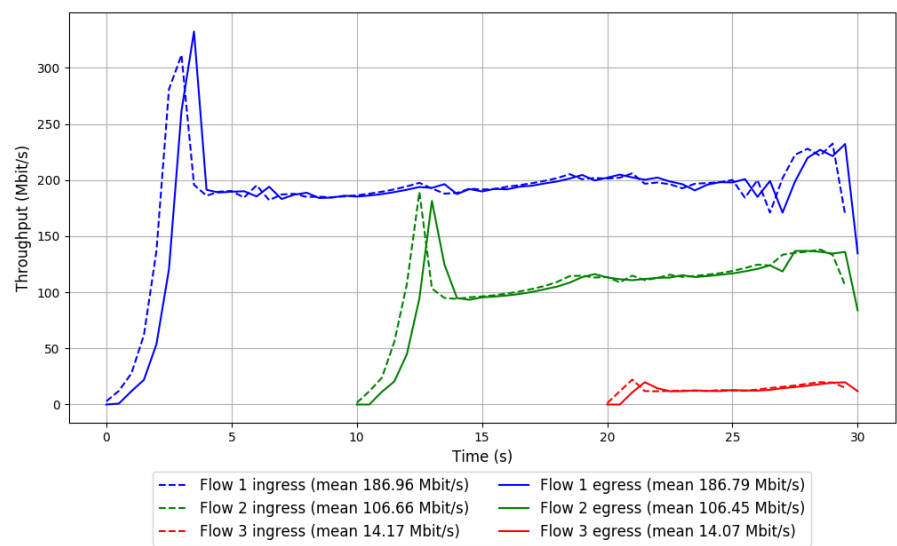
-- Flow 3:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 89.297 ms

Loss rate: 2.39%

Run 4: Report of PCC-Expr — Data Link

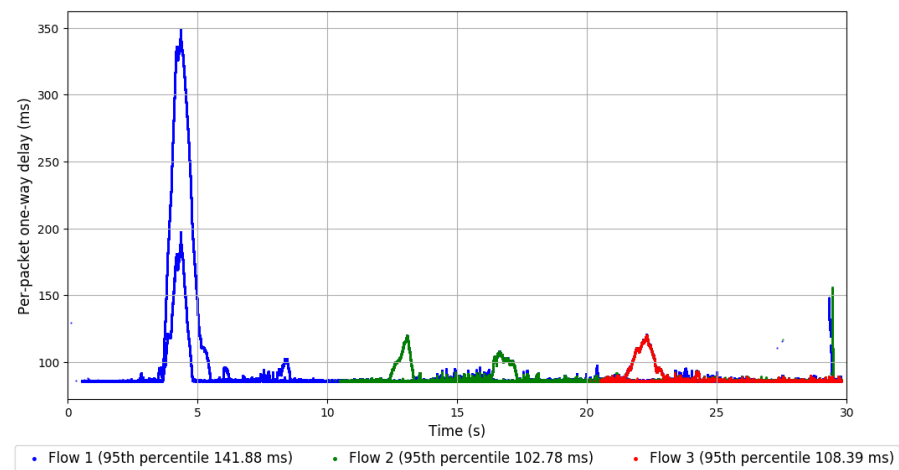
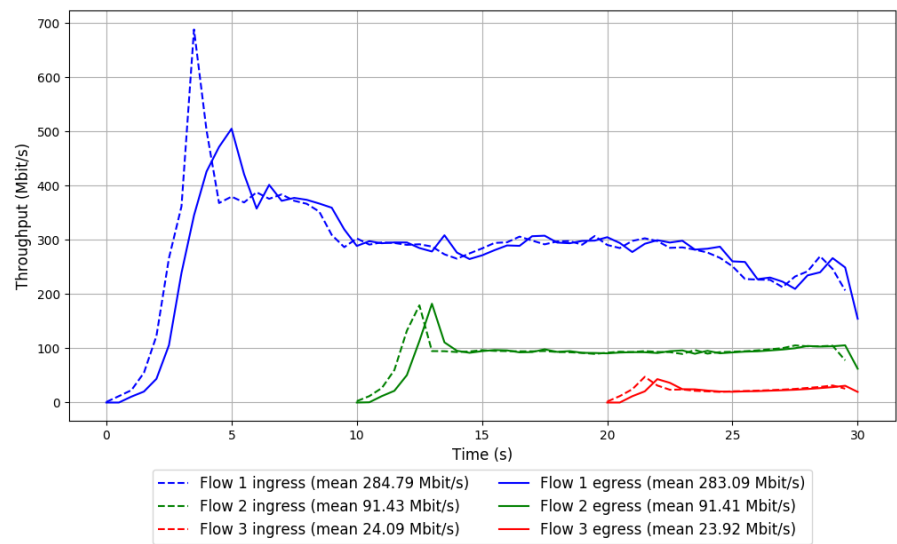


Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 01:19:35
End at: 2018-06-19 01:20:05
Local clock offset: -0.174 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-19 04:51:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.59 Mbit/s
95th percentile per-packet one-way delay: 120.618 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 283.09 Mbit/s
95th percentile per-packet one-way delay: 141.883 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 102.778 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 23.92 Mbit/s
95th percentile per-packet one-way delay: 108.391 ms
Loss rate: 2.46%

Run 5: Report of PCC-Expr — Data Link

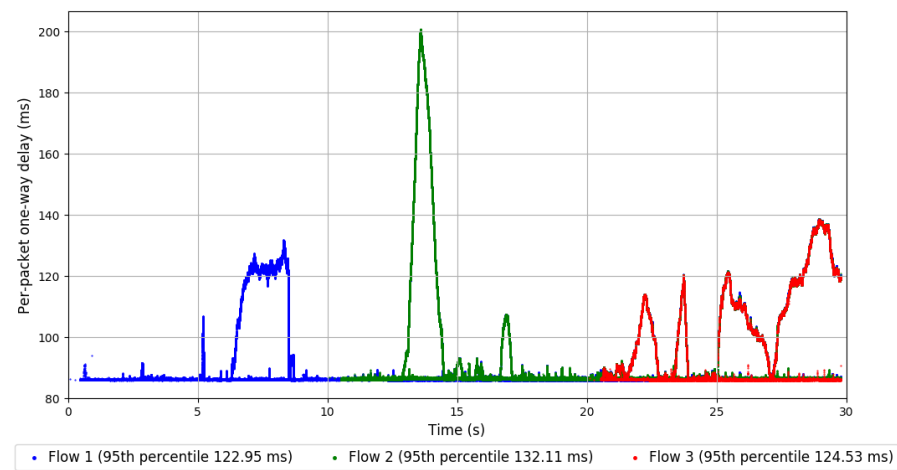
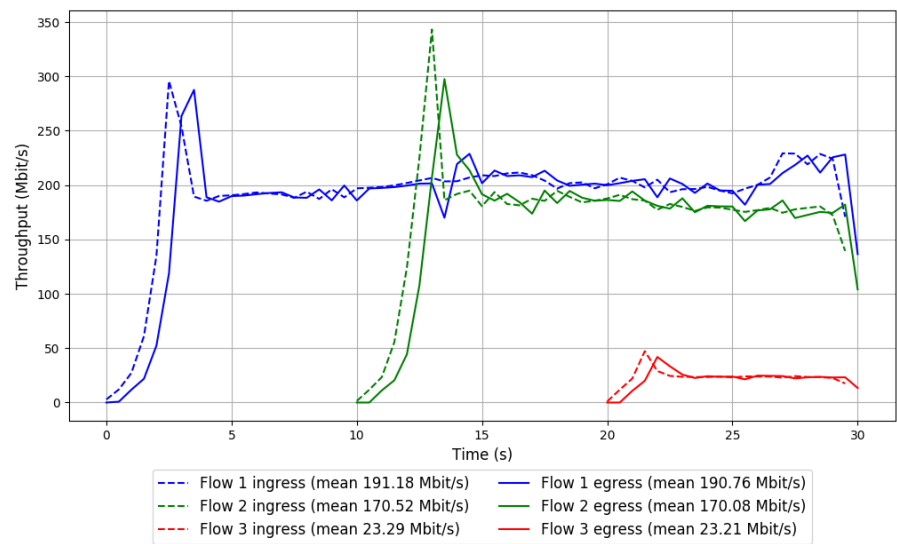


Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 01:42:45
End at: 2018-06-19 01:43:15
Local clock offset: 0.075 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-19 04:51:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.12 Mbit/s
95th percentile per-packet one-way delay: 124.141 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 190.76 Mbit/s
95th percentile per-packet one-way delay: 122.947 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 170.08 Mbit/s
95th percentile per-packet one-way delay: 132.106 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 124.527 ms
Loss rate: 2.08%

Run 6: Report of PCC-Expr — Data Link

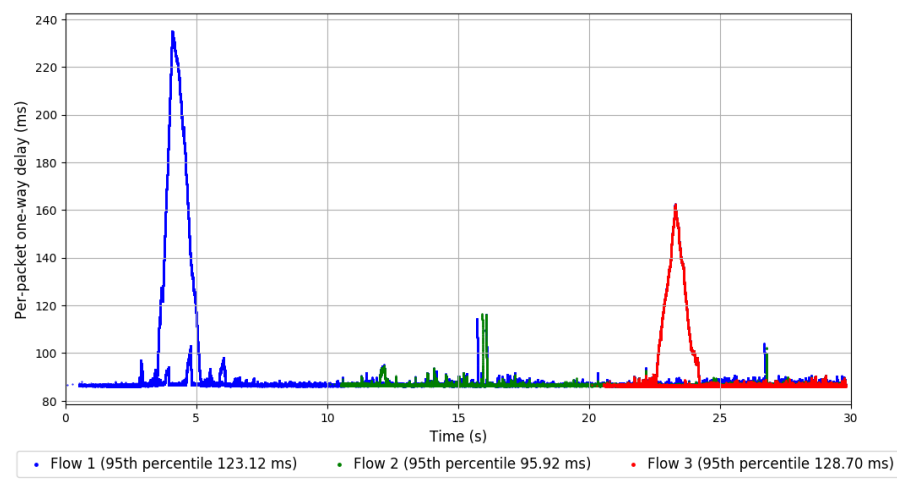
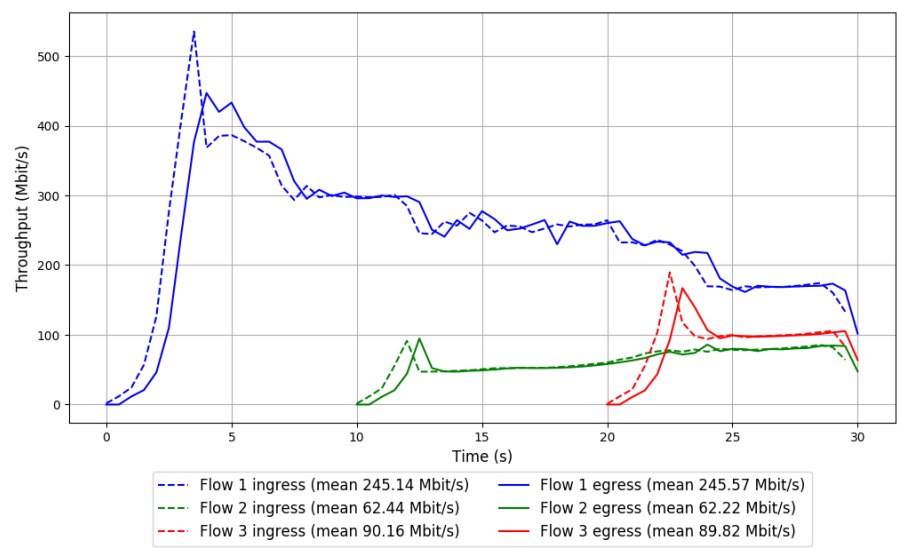


Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 02:06:03
End at: 2018-06-19 02:06:33
Local clock offset: 0.115 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-06-19 04:51:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 316.08 Mbit/s
95th percentile per-packet one-way delay: 120.866 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 245.57 Mbit/s
95th percentile per-packet one-way delay: 123.116 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 62.22 Mbit/s
95th percentile per-packet one-way delay: 95.924 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 89.82 Mbit/s
95th percentile per-packet one-way delay: 128.698 ms
Loss rate: 2.13%

Run 7: Report of PCC-Expr — Data Link

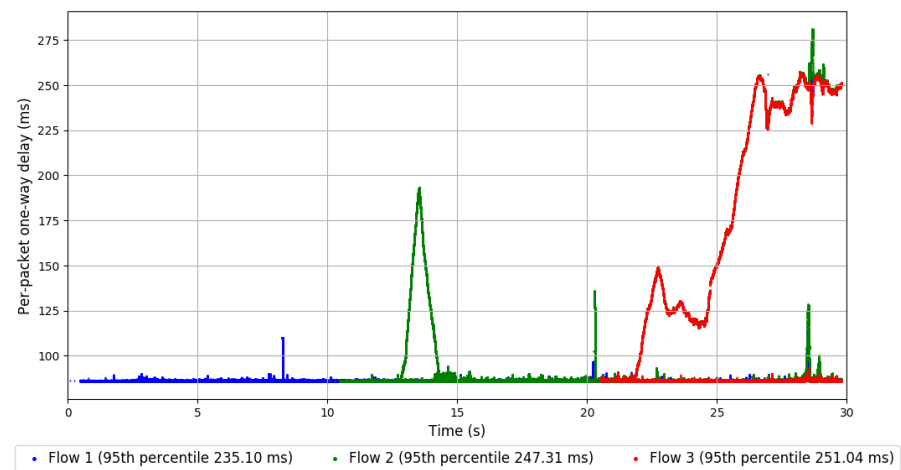
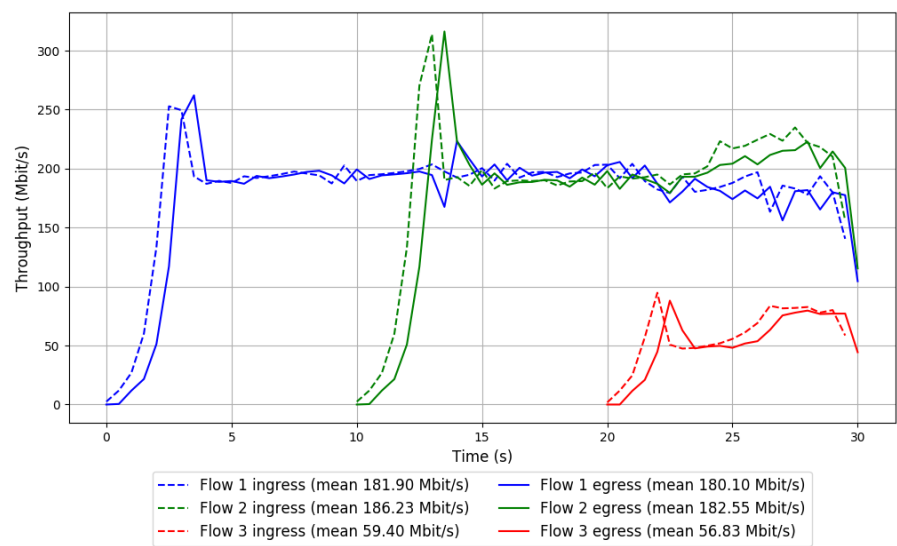


Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 02:29:11
End at: 2018-06-19 02:29:41
Local clock offset: -0.014 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-06-19 04:53:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 245.386 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 180.10 Mbit/s
95th percentile per-packet one-way delay: 235.096 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 182.55 Mbit/s
95th percentile per-packet one-way delay: 247.305 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 251.041 ms
Loss rate: 6.03%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 02:52:15

End at: 2018-06-19 02:52:45

Local clock offset: -0.078 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-19 04:57:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.50 Mbit/s

95th percentile per-packet one-way delay: 91.337 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 212.16 Mbit/s

95th percentile per-packet one-way delay: 90.429 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 118.33 Mbit/s

95th percentile per-packet one-way delay: 92.863 ms

Loss rate: 1.04%

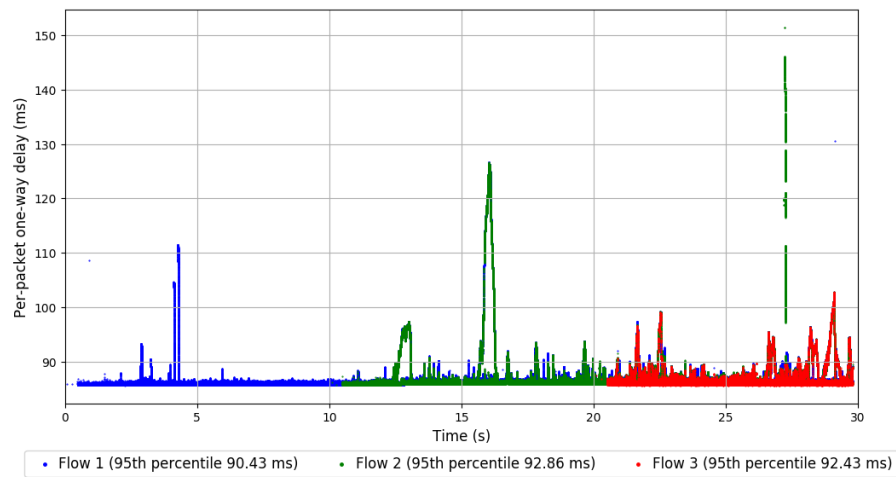
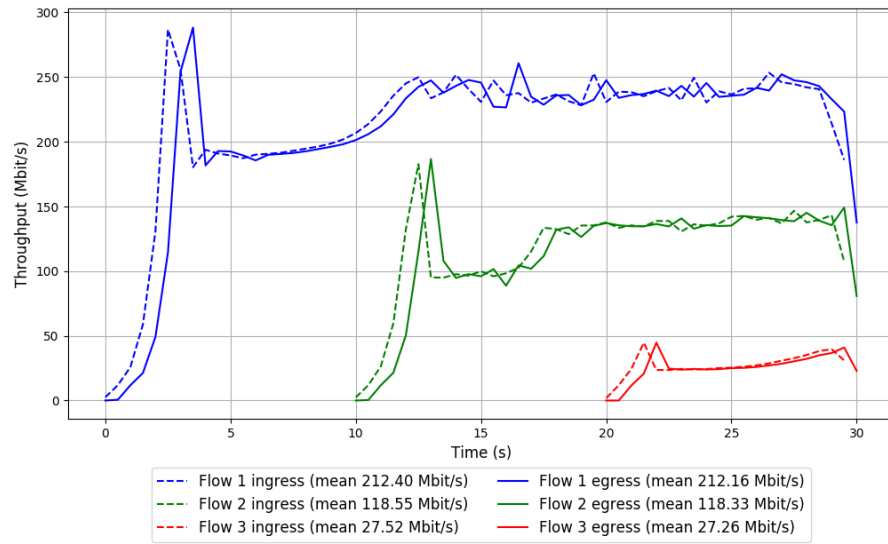
-- Flow 3:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 92.431 ms

Loss rate: 2.68%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 03:15:16

End at: 2018-06-19 03:15:46

Local clock offset: -0.007 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-06-19 04:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.77 Mbit/s

95th percentile per-packet one-way delay: 109.740 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 172.25 Mbit/s

95th percentile per-packet one-way delay: 95.794 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 168.41 Mbit/s

95th percentile per-packet one-way delay: 116.887 ms

Loss rate: 0.60%

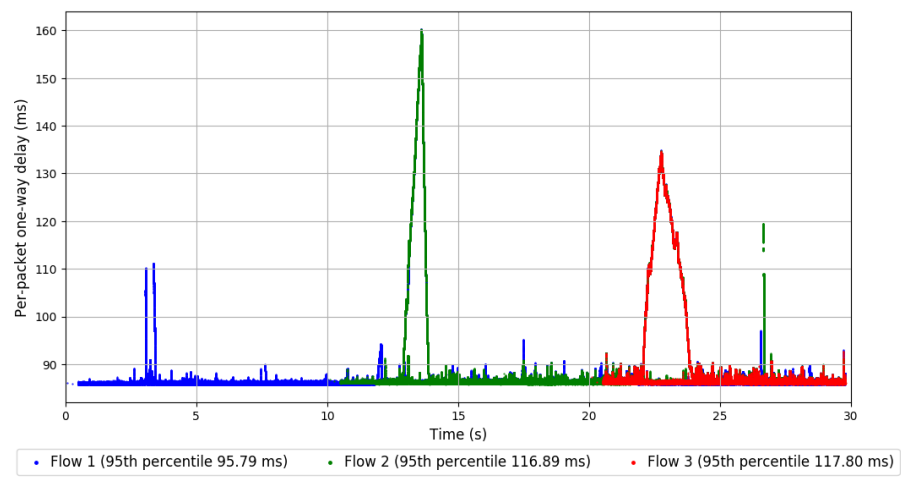
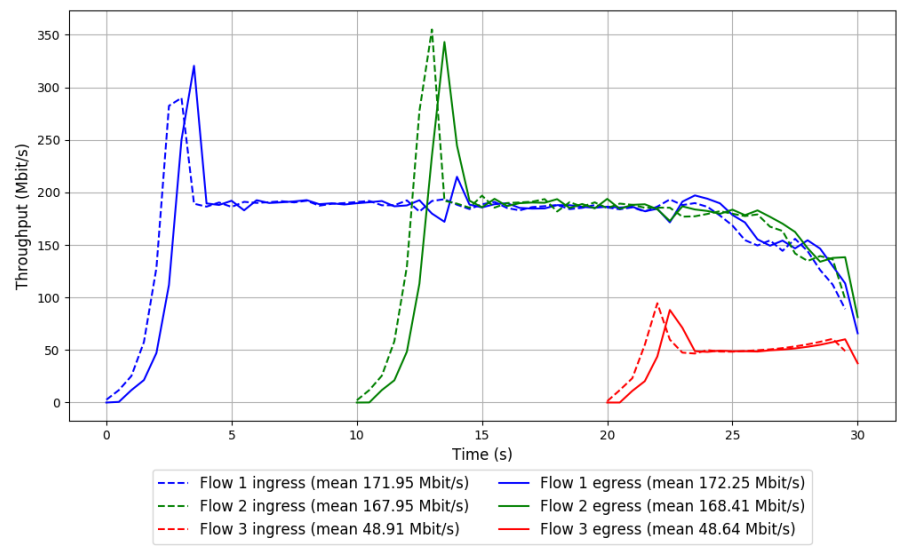
-- Flow 3:

Average throughput: 48.64 Mbit/s

95th percentile per-packet one-way delay: 117.802 ms

Loss rate: 2.31%

Run 10: Report of PCC-Expr — Data Link

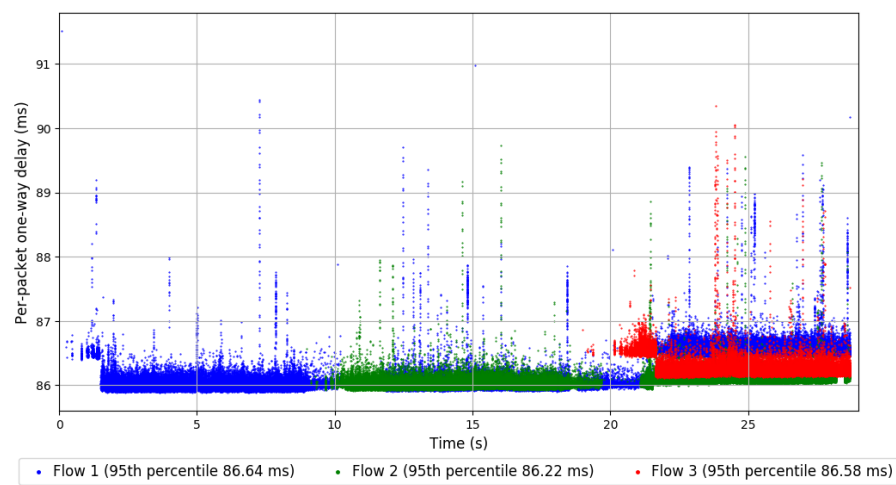
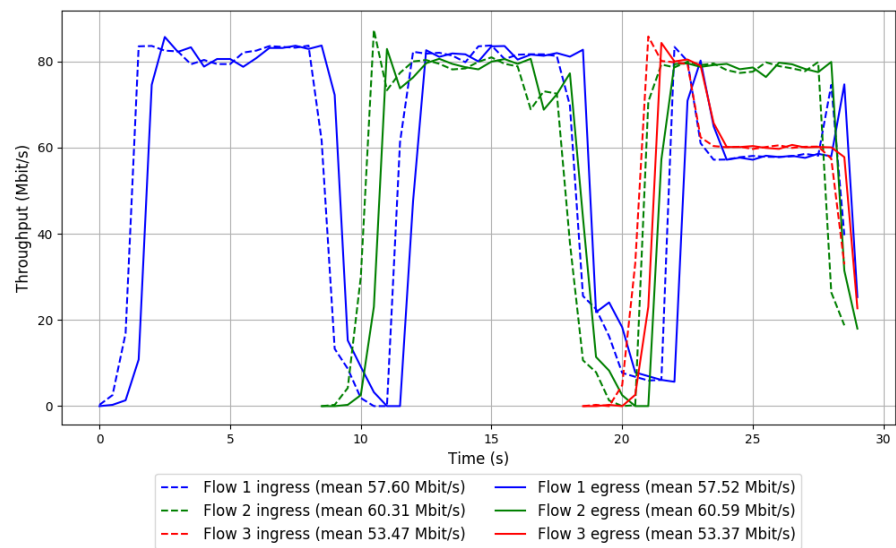


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-18 23:38:25
End at: 2018-06-18 23:38:55
Local clock offset: -0.063 ms
Remote clock offset: -0.849 ms

Below is generated by plot.py at 2018-06-19 04:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 117.42 Mbit/s
95th percentile per-packet one-way delay: 86.596 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 86.638 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 86.217 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 86.576 ms
Loss rate: 1.92%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 00:01:42

End at: 2018-06-19 00:02:12

Local clock offset: 0.237 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-06-19 04:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.03 Mbit/s

95th percentile per-packet one-way delay: 86.729 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 86.743 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 50.42 Mbit/s

95th percentile per-packet one-way delay: 86.748 ms

Loss rate: 1.27%

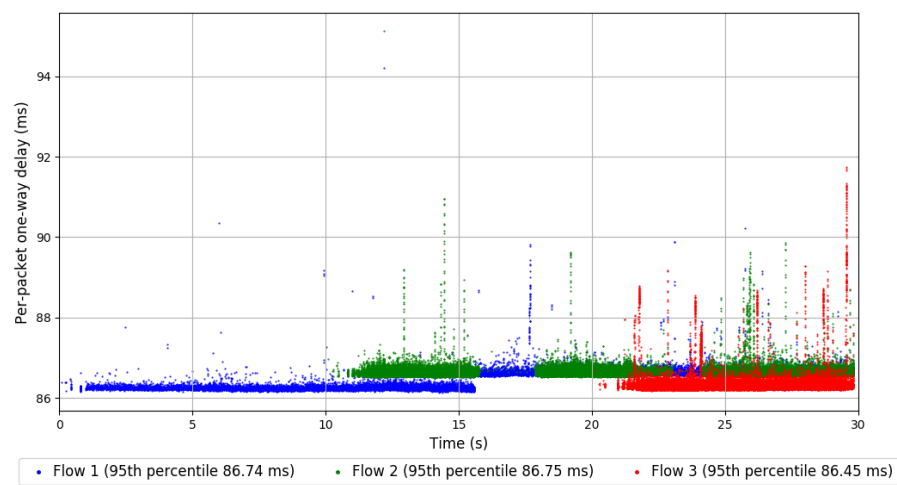
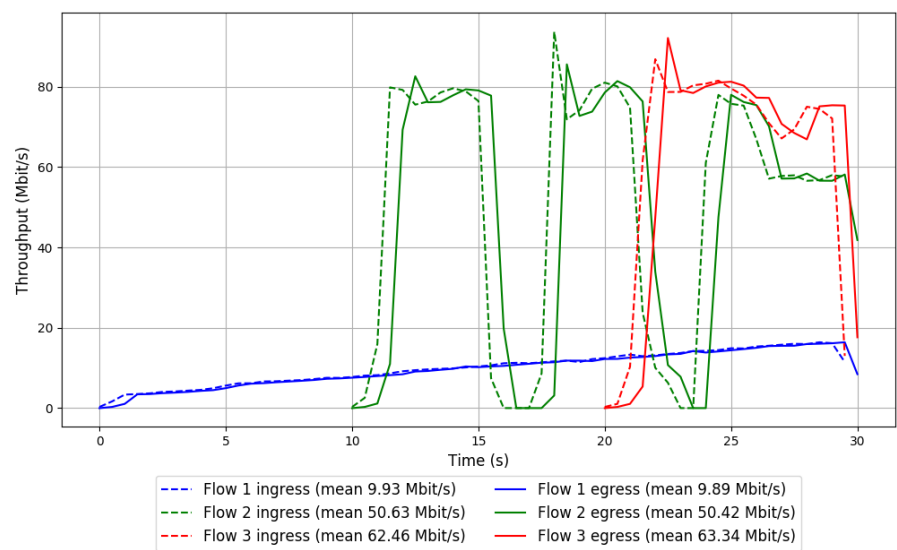
-- Flow 3:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 86.450 ms

Loss rate: 0.36%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 00:24:41

End at: 2018-06-19 00:25:11

Local clock offset: 0.137 ms

Remote clock offset: 0.563 ms

Below is generated by plot.py at 2018-06-19 04:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.28 Mbit/s

95th percentile per-packet one-way delay: 86.504 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 86.519 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 48.22 Mbit/s

95th percentile per-packet one-way delay: 86.195 ms

Loss rate: 1.45%

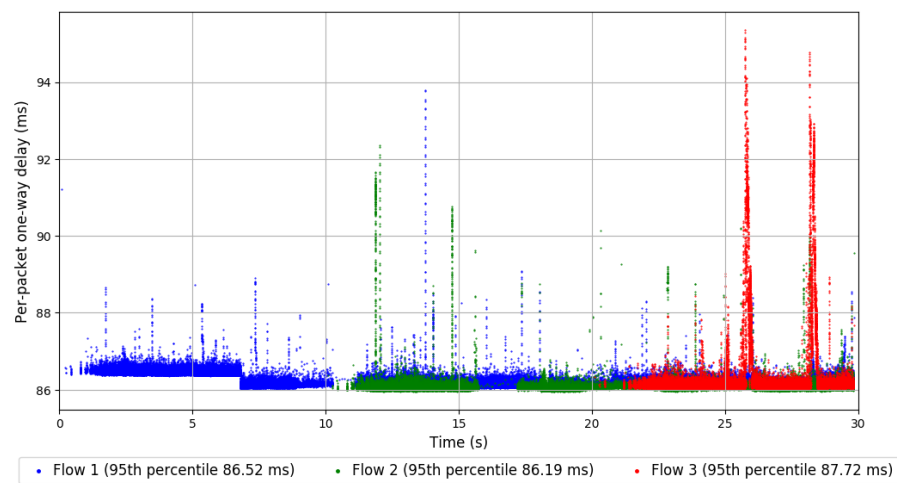
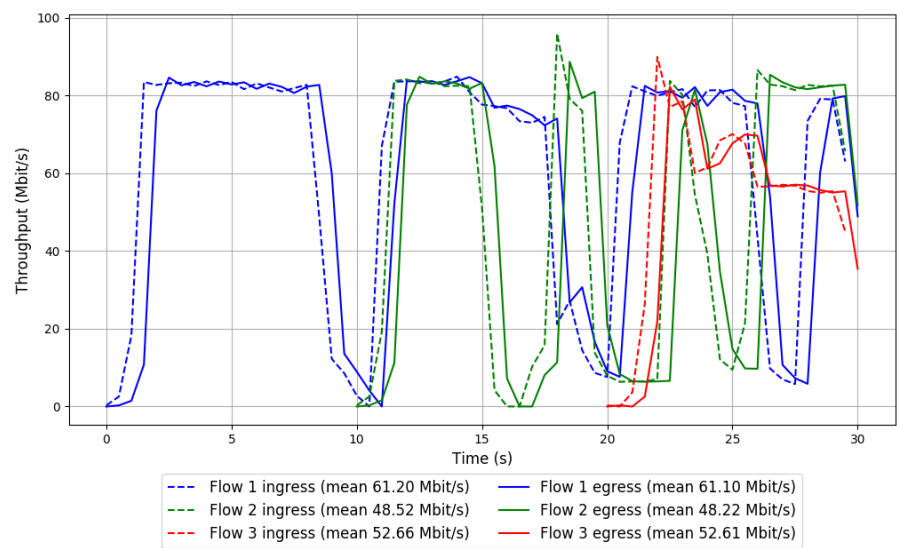
-- Flow 3:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 87.715 ms

Loss rate: 1.84%

Run 3: Report of QUIC Cubic — Data Link

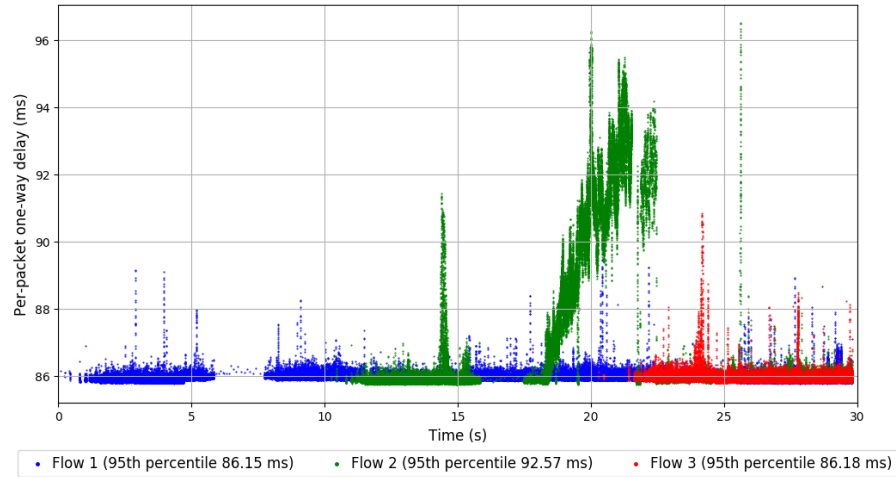
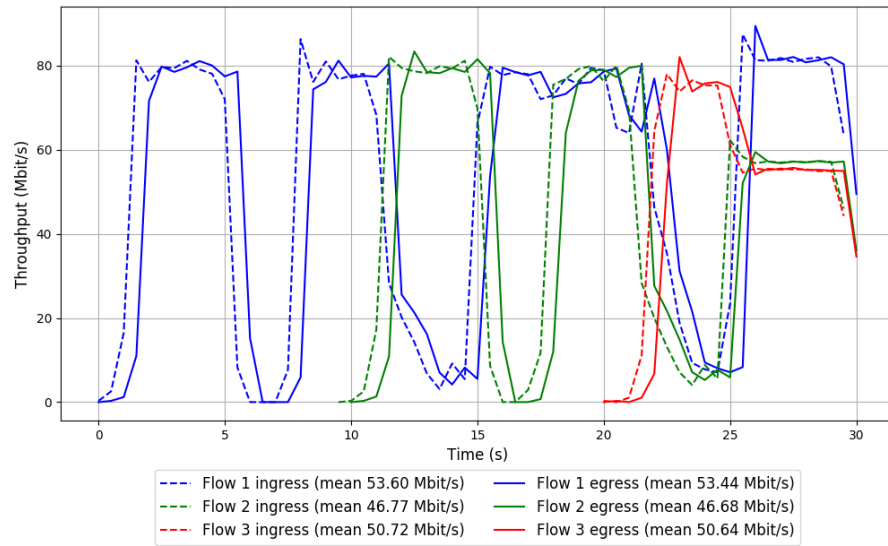


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 00:47:43
End at: 2018-06-19 00:48:13
Local clock offset: -0.013 ms
Remote clock offset: 0.643 ms

Below is generated by plot.py at 2018-06-19 04:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.95 Mbit/s
95th percentile per-packet one-way delay: 90.287 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 53.44 Mbit/s
95th percentile per-packet one-way delay: 86.147 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 46.68 Mbit/s
95th percentile per-packet one-way delay: 92.568 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 1.91%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 01:11:12

End at: 2018-06-19 01:11:42

Local clock offset: -0.274 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-19 04:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.23 Mbit/s

95th percentile per-packet one-way delay: 86.202 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: 86.214 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 50.40 Mbit/s

95th percentile per-packet one-way delay: 86.272 ms

Loss rate: 1.26%

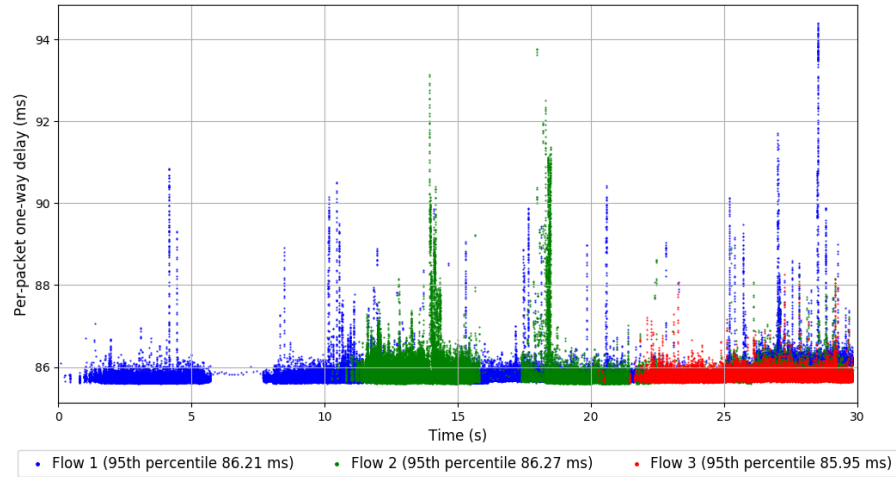
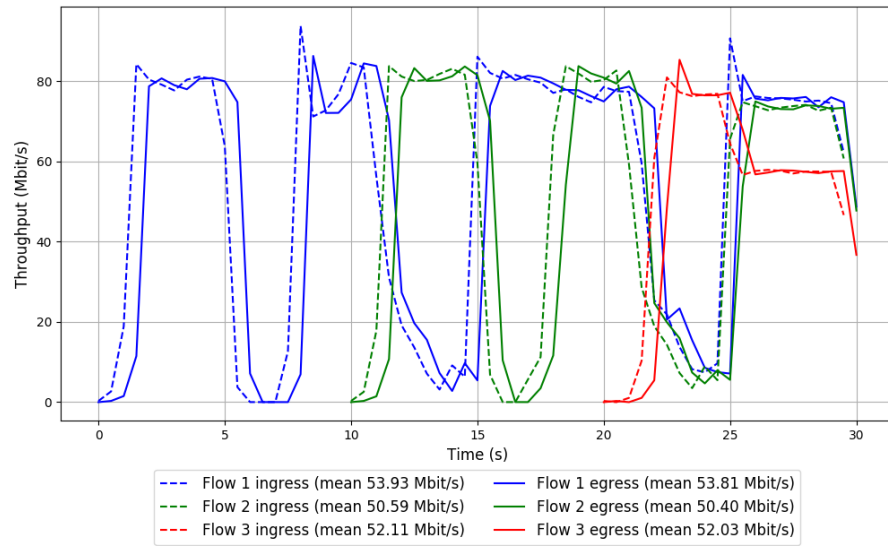
-- Flow 3:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 85.948 ms

Loss rate: 1.90%

Run 5: Report of QUIC Cubic — Data Link

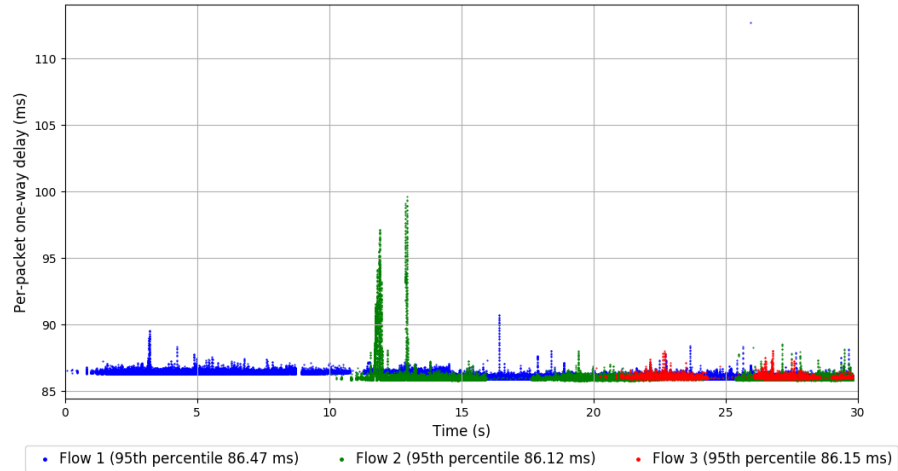
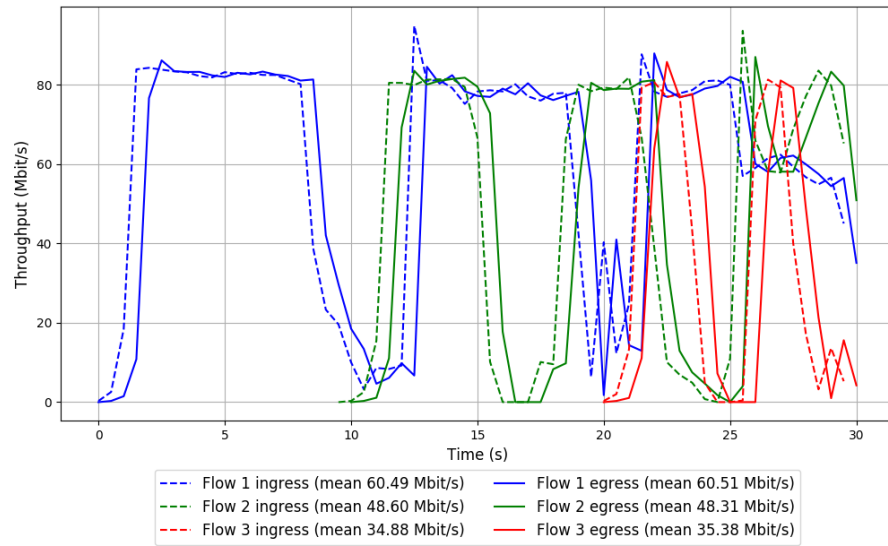


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 01:34:23
End at: 2018-06-19 01:34:53
Local clock offset: 0.02 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 04:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.13 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 60.51 Mbit/s
95th percentile per-packet one-way delay: 86.471 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 86.121 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 86.147 ms
Loss rate: 0.33%

Run 6: Report of QUIC Cubic — Data Link

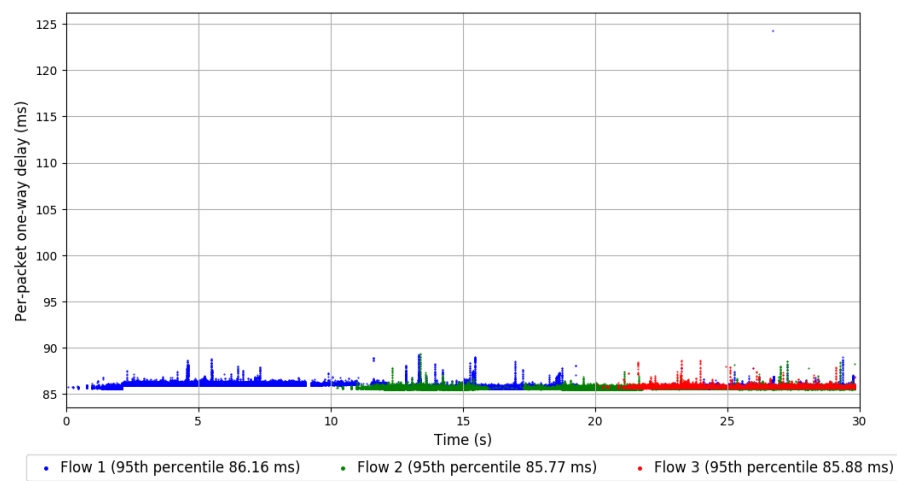
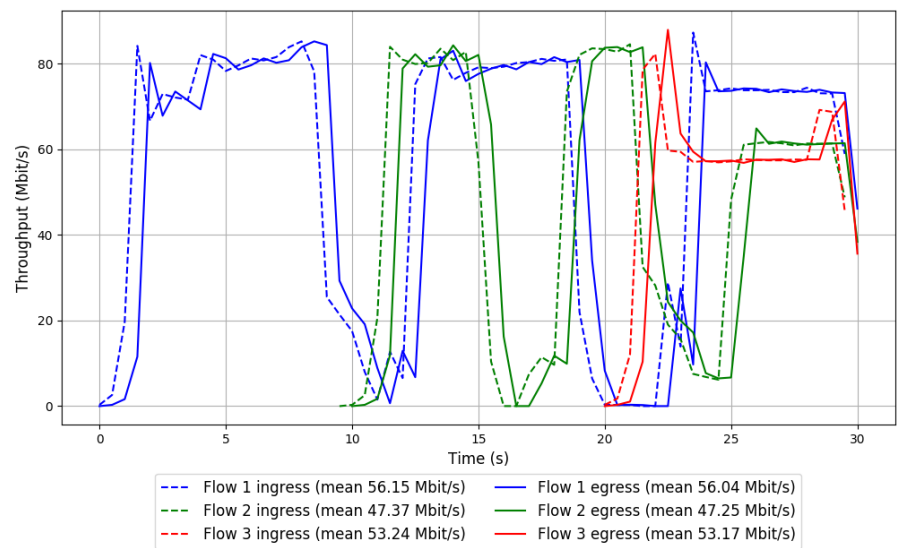


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 01:57:25
End at: 2018-06-19 01:57:56
Local clock offset: -0.228 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-19 04:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.76 Mbit/s
95th percentile per-packet one-way delay: 86.118 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 86.164 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 47.25 Mbit/s
95th percentile per-packet one-way delay: 85.770 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 53.17 Mbit/s
95th percentile per-packet one-way delay: 85.883 ms
Loss rate: 1.87%

Run 7: Report of QUIC Cubic — Data Link

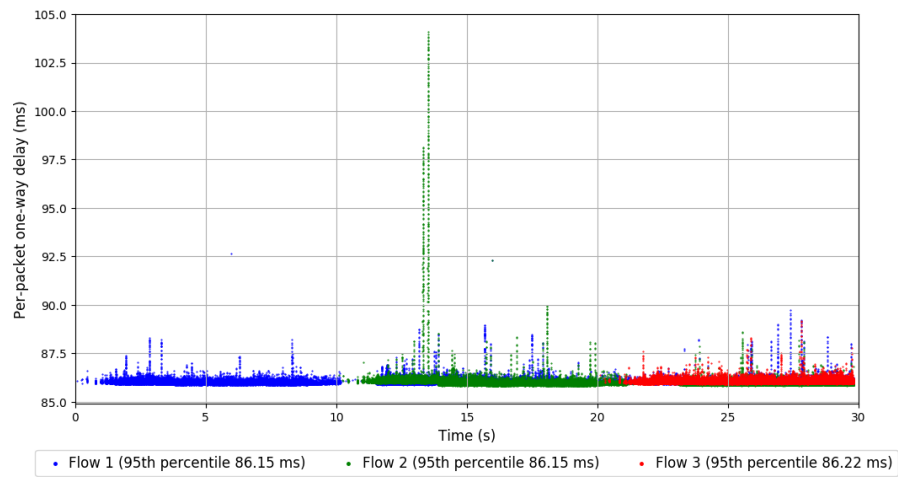
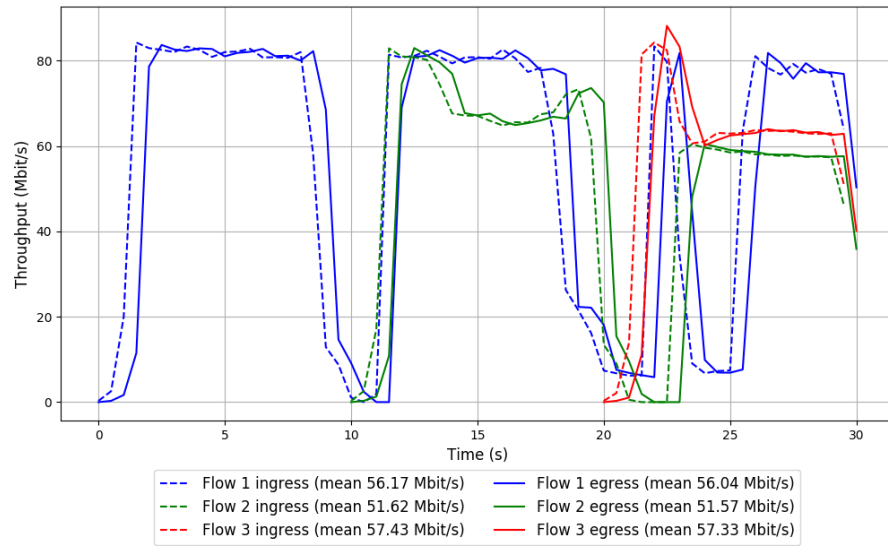


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 02:20:44
End at: 2018-06-19 02:21:14
Local clock offset: 0.016 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-06-19 04:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 108.98 Mbit/s
95th percentile per-packet one-way delay: 86.169 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 86.154 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 86.148 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 86.225 ms
Loss rate: 1.93%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 02:43:48

End at: 2018-06-19 02:44:18

Local clock offset: 0.186 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-19 04:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 86.393 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 86.547 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 50.89 Mbit/s

95th percentile per-packet one-way delay: 86.299 ms

Loss rate: 1.00%

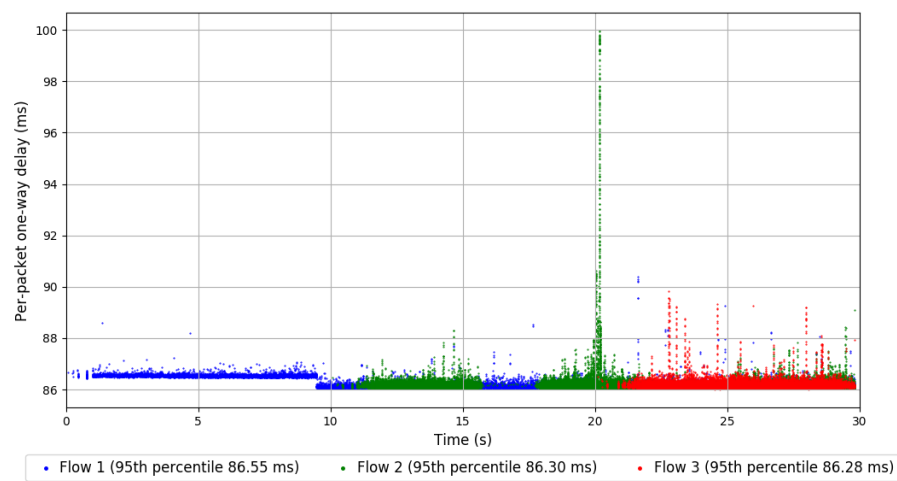
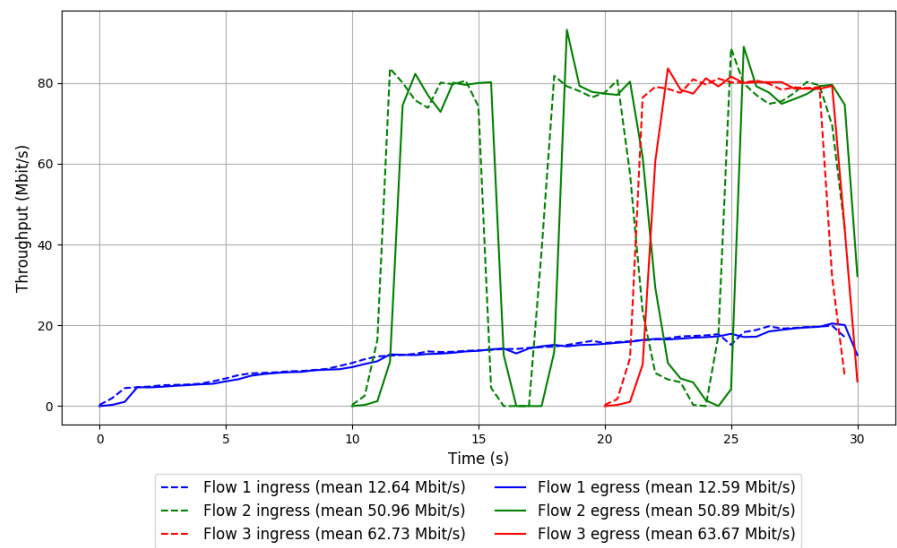
-- Flow 3:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 86.279 ms

Loss rate: 0.25%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 03:06:50

End at: 2018-06-19 03:07:20

Local clock offset: 0.055 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-06-19 04:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.83 Mbit/s

95th percentile per-packet one-way delay: 86.408 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 58.95 Mbit/s

95th percentile per-packet one-way delay: 86.240 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 54.15 Mbit/s

95th percentile per-packet one-way delay: 86.159 ms

Loss rate: 1.29%

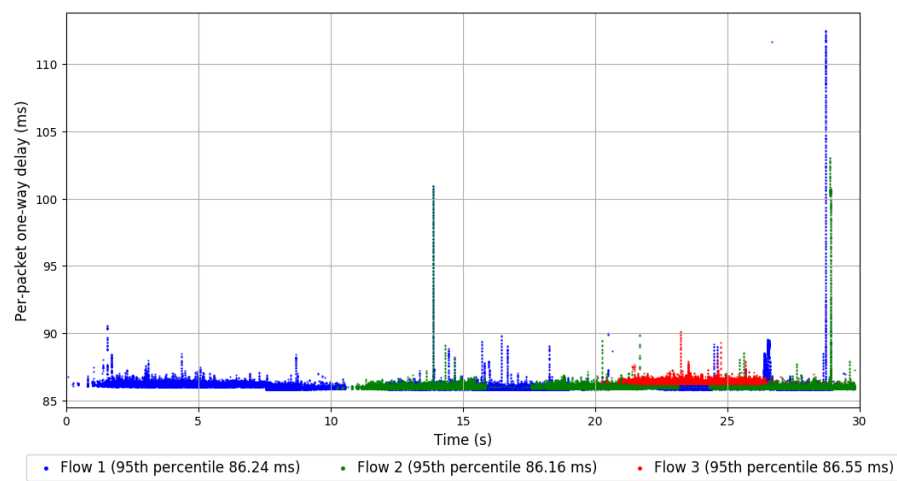
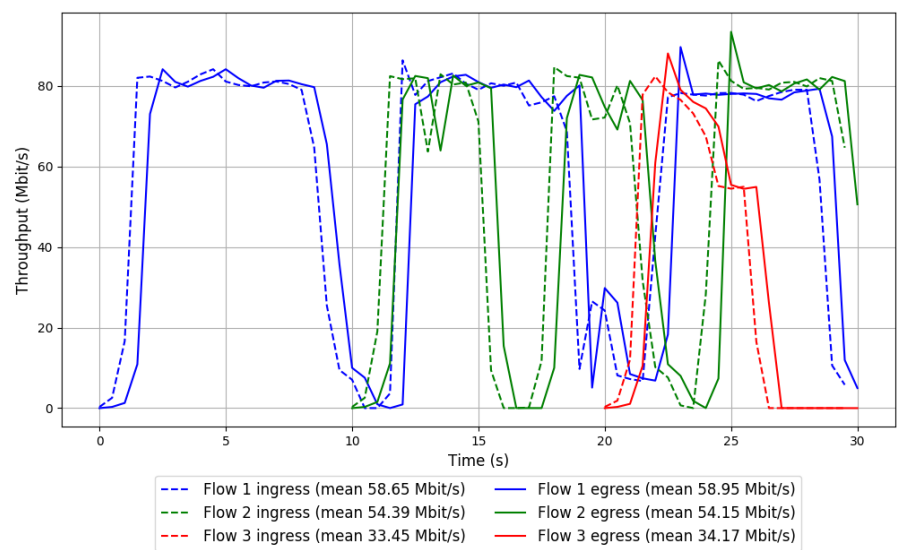
-- Flow 3:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 86.553 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

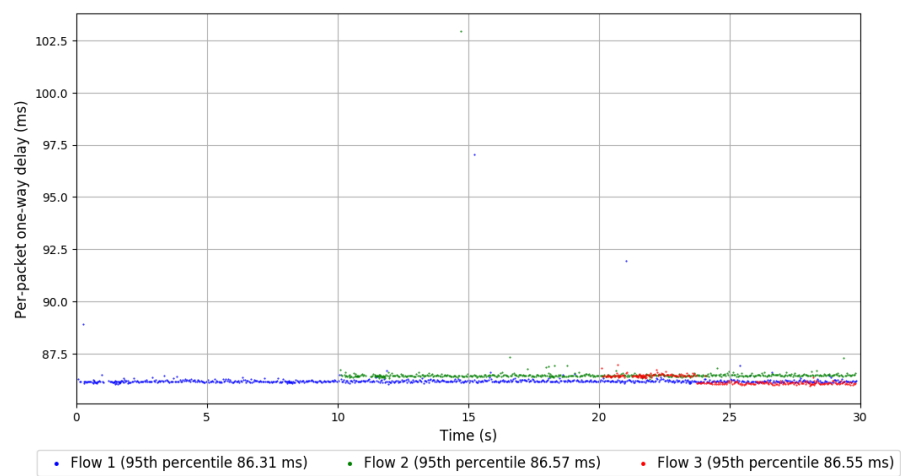
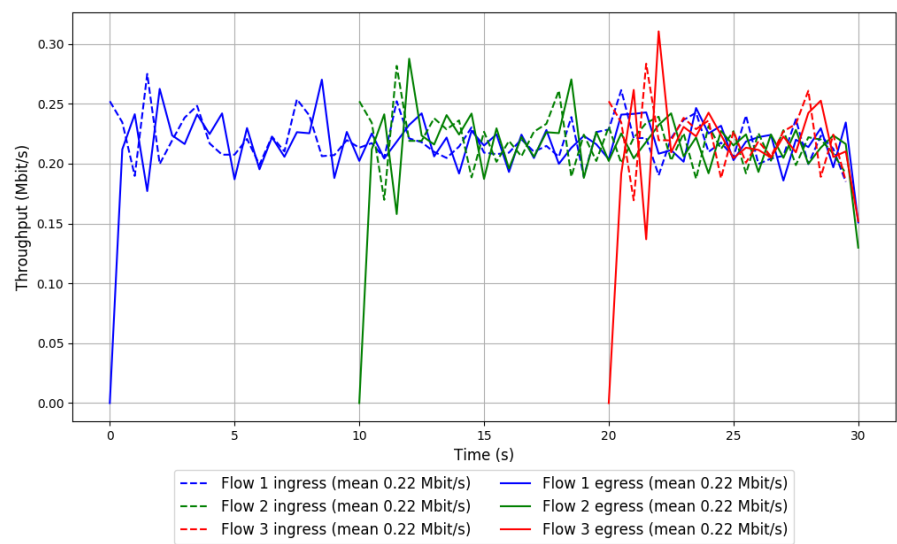


```
Run 1: Statistics of SReAM

Start at: 2018-06-18 23:50:04
End at: 2018-06-18 23:50:34
Local clock offset: -0.045 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-19 04:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.533 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.308 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.552 ms
Loss rate: 1.85%
```

Run 1: Report of SReAM — Data Link

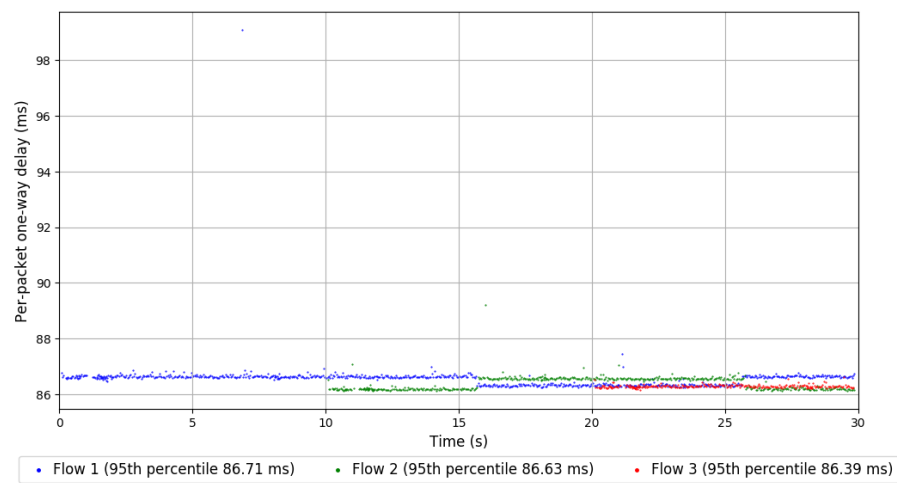
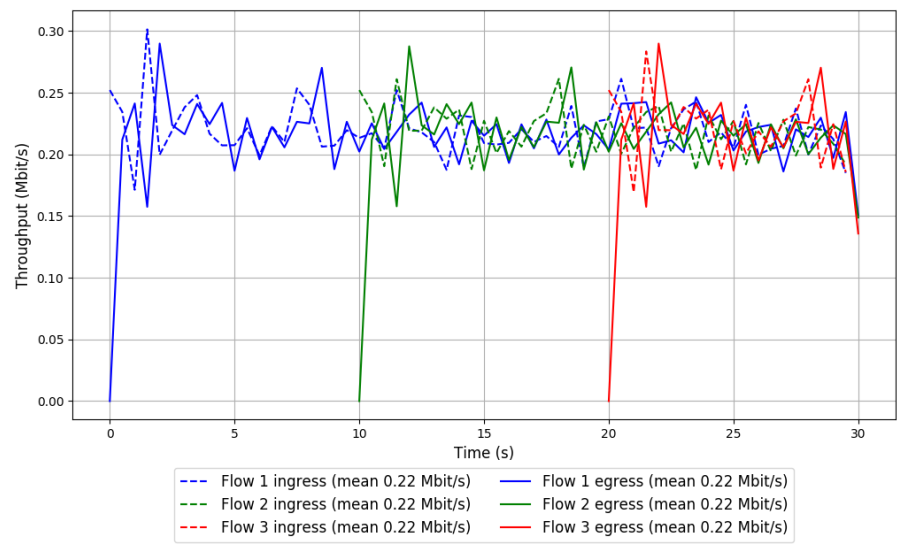


```
Run 2: Statistics of SReAM

Start at: 2018-06-19 00:13:12
End at: 2018-06-19 00:13:42
Local clock offset: 0.145 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-06-19 04:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.690 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.709 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.627 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.391 ms
Loss rate: 1.85%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-19 00:36:17

End at: 2018-06-19 00:36:47

Local clock offset: 0.155 ms

Remote clock offset: 0.705 ms

Below is generated by plot.py at 2018-06-19 04:58:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.391 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.417 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.385 ms

Loss rate: 1.04%

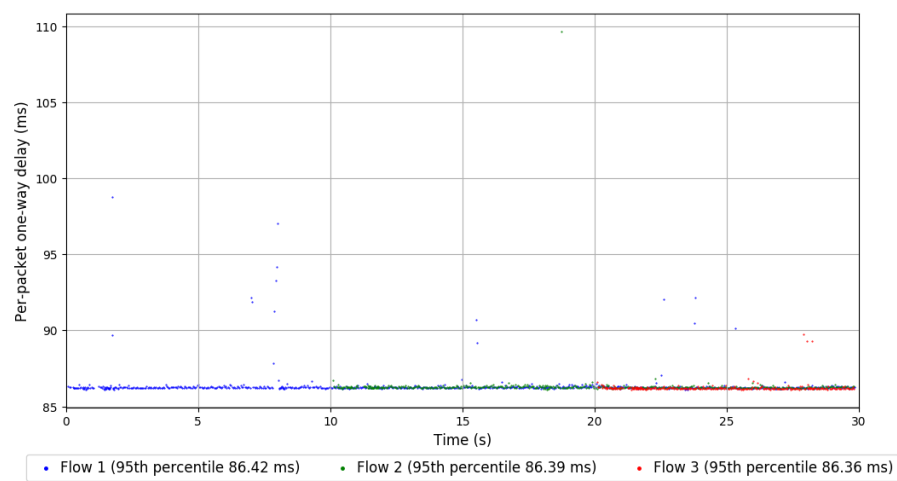
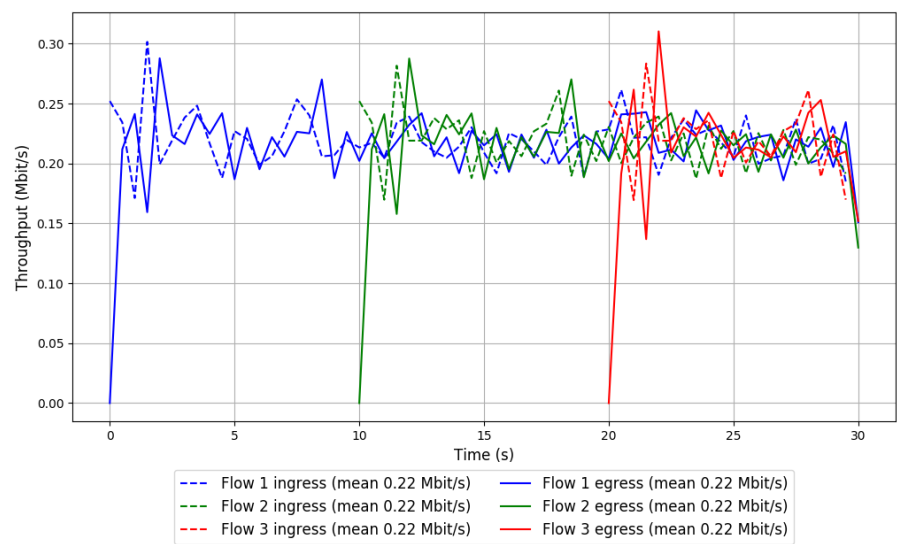
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.362 ms

Loss rate: 1.50%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-06-19 00:59:29

End at: 2018-06-19 00:59:59

Local clock offset: 0.07 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-06-19 04:58:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.511 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.737 ms

Loss rate: 0.82%

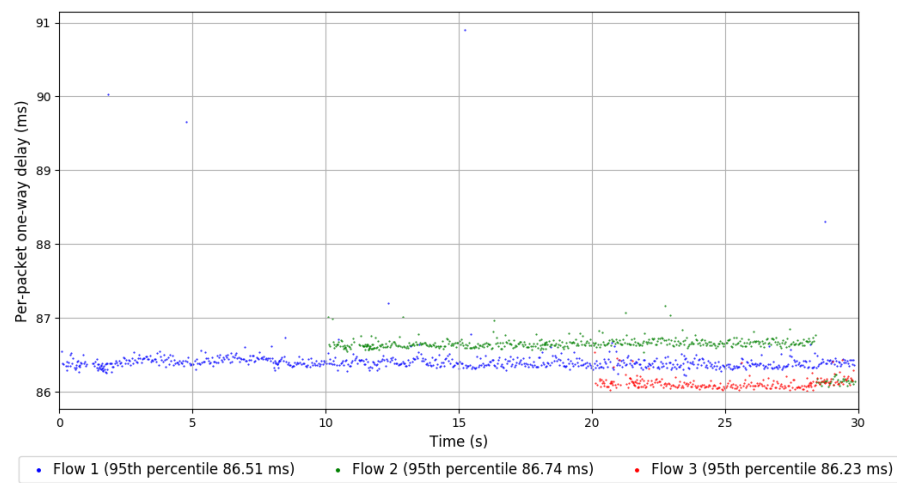
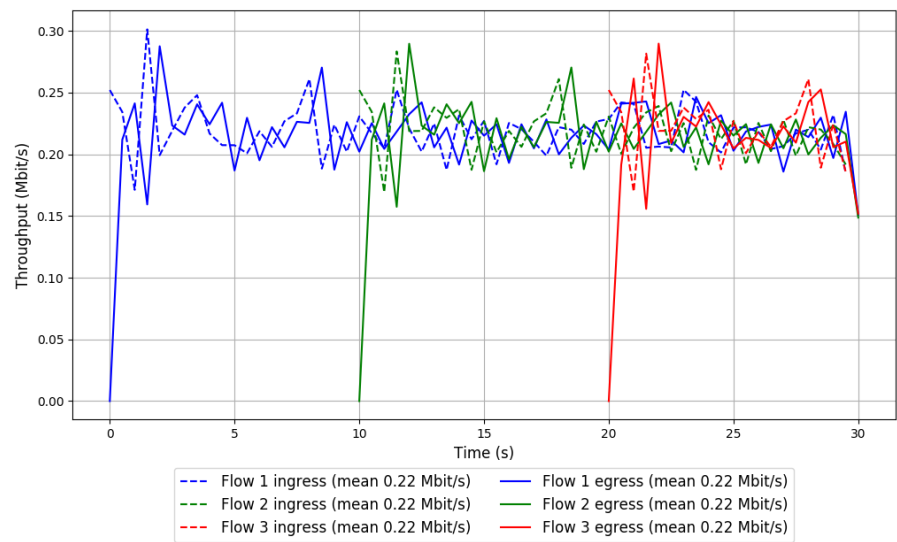
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.229 ms

Loss rate: 1.85%

Run 4: Report of SReAM — Data Link

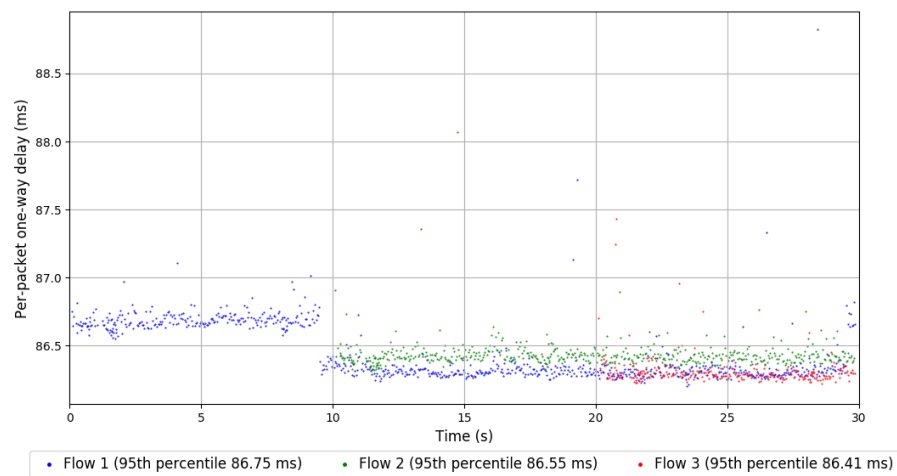
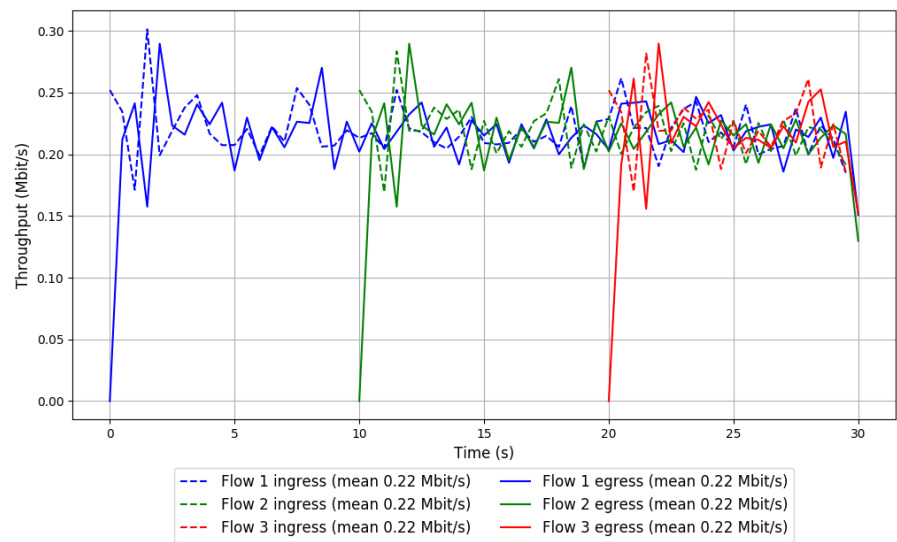


Run 5: Statistics of SReAM

Start at: 2018-06-19 01:22:48
End at: 2018-06-19 01:23:18
Local clock offset: 0.151 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.723 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.746 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.551 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.414 ms
Loss rate: 1.85%

Run 5: Report of SReAM — Data Link

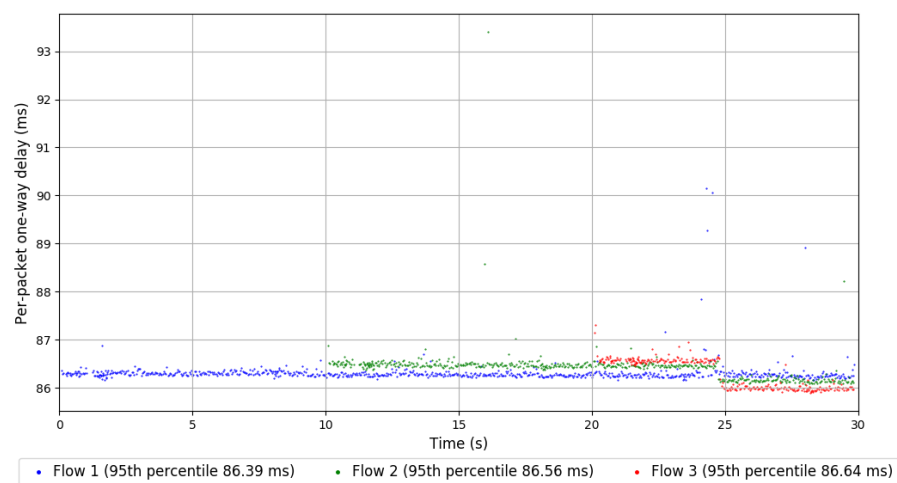
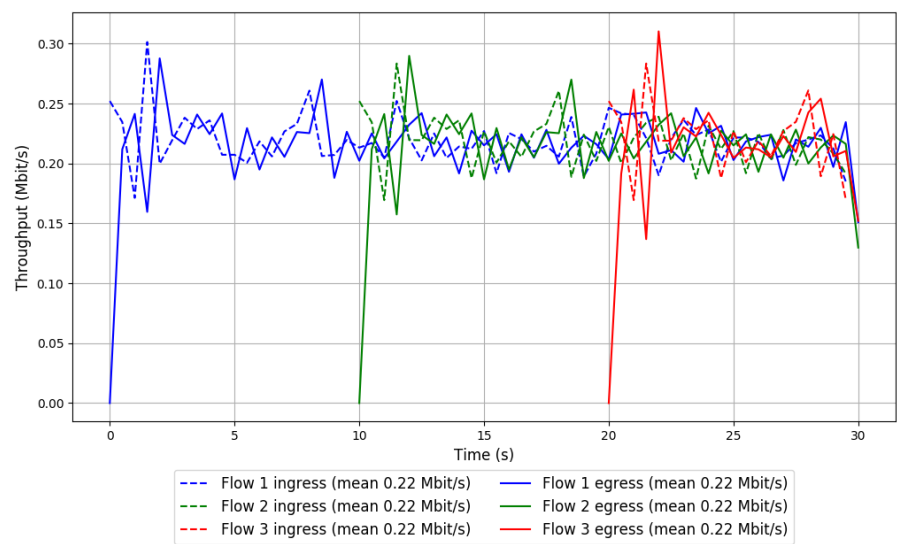


Run 6: Statistics of SReAM

Start at: 2018-06-19 01:46:03
End at: 2018-06-19 01:46:33
Local clock offset: 0.075 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.586 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.392 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.563 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.645 ms
Loss rate: 1.50%

Run 6: Report of SReAM — Data Link

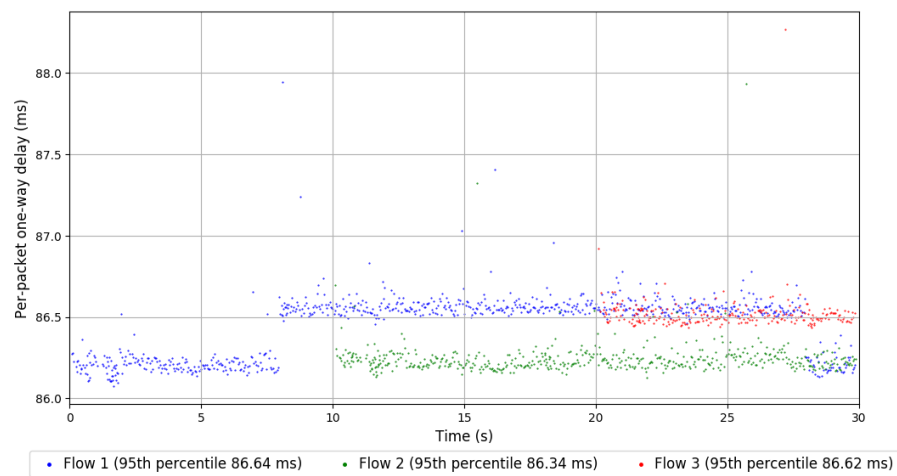
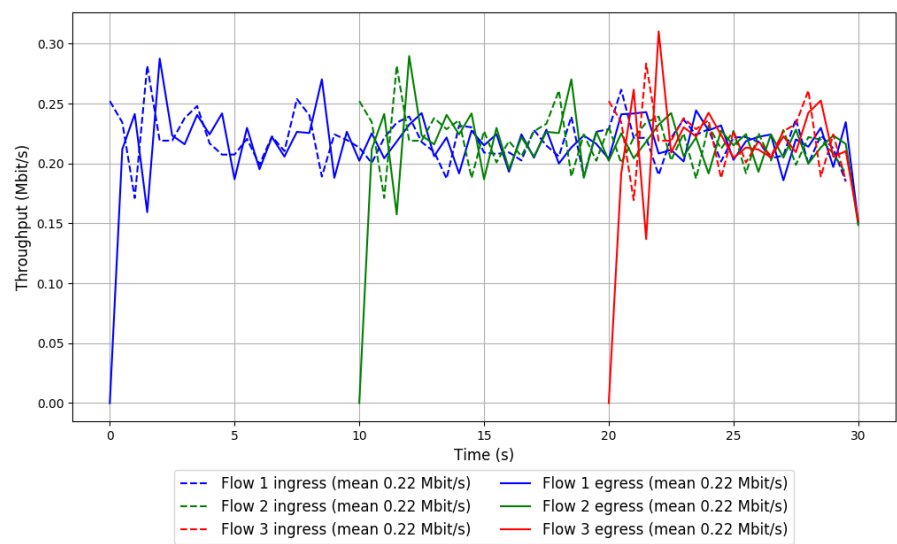


Run 7: Statistics of SReAM

Start at: 2018-06-19 02:09:20
End at: 2018-06-19 02:09:50
Local clock offset: 0.1 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.615 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.640 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.345 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.618 ms
Loss rate: 1.85%

Run 7: Report of SReAM — Data Link

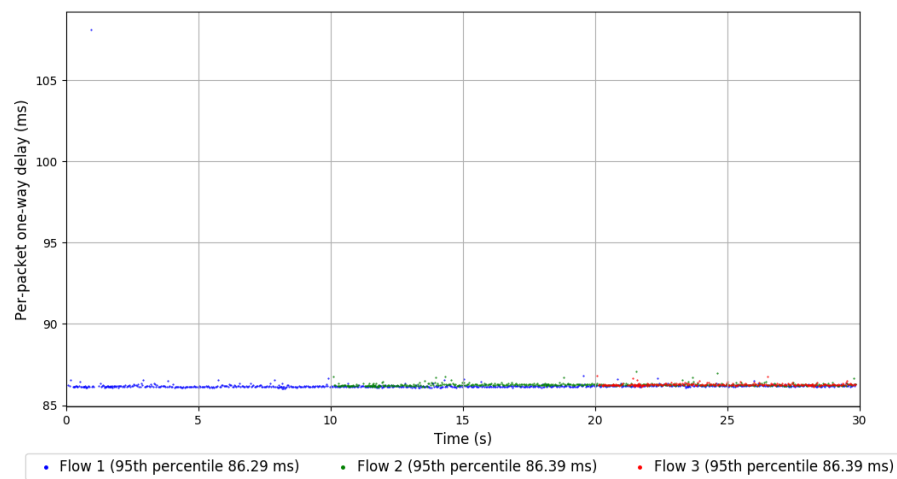
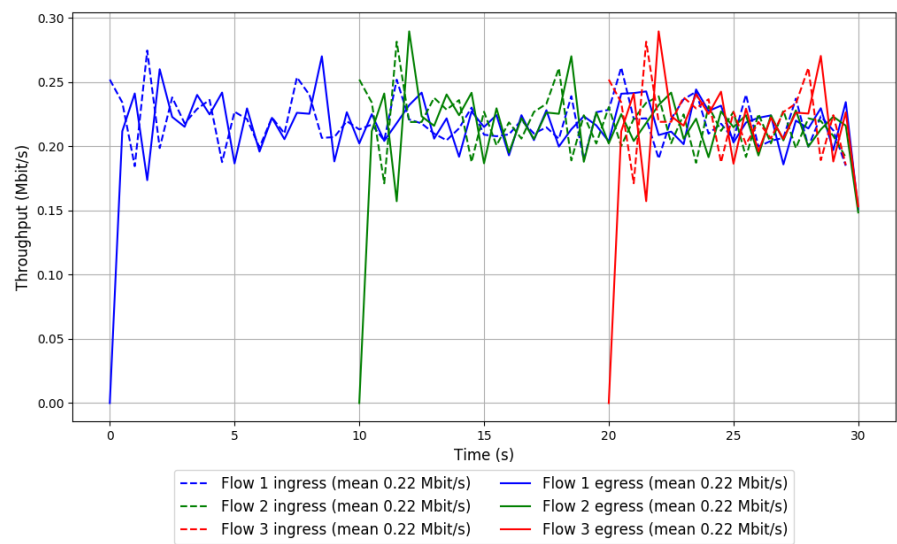


Run 8: Statistics of SReAM

Start at: 2018-06-19 02:32:18
End at: 2018-06-19 02:32:48
Local clock offset: 0.156 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.359 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.293 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.386 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.389 ms
Loss rate: 1.46%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-19 02:55:24

End at: 2018-06-19 02:55:54

Local clock offset: 0.048 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-19 04:58:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.359 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.373 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.275 ms

Loss rate: 1.04%

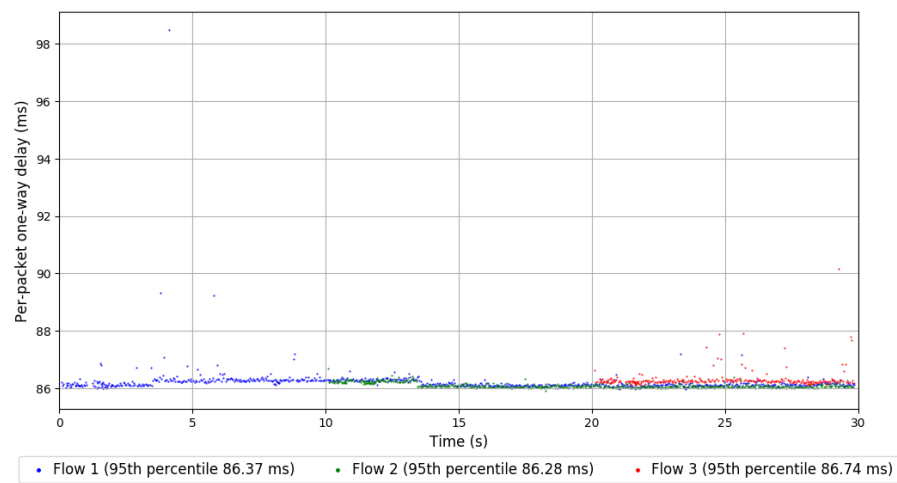
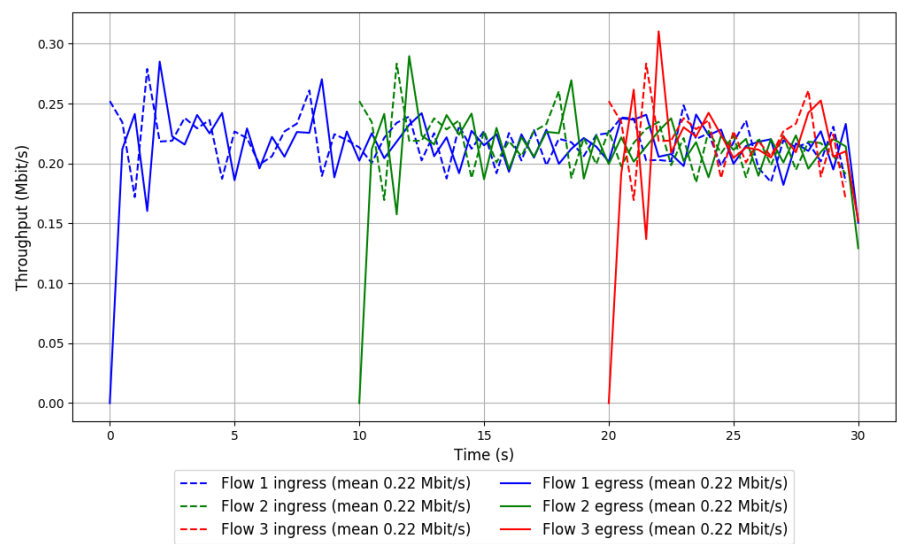
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.741 ms

Loss rate: 1.50%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-19 03:18:33

End at: 2018-06-19 03:19:03

Local clock offset: 0.232 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-19 04:58:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.698 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.459 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.698 ms

Loss rate: 1.04%

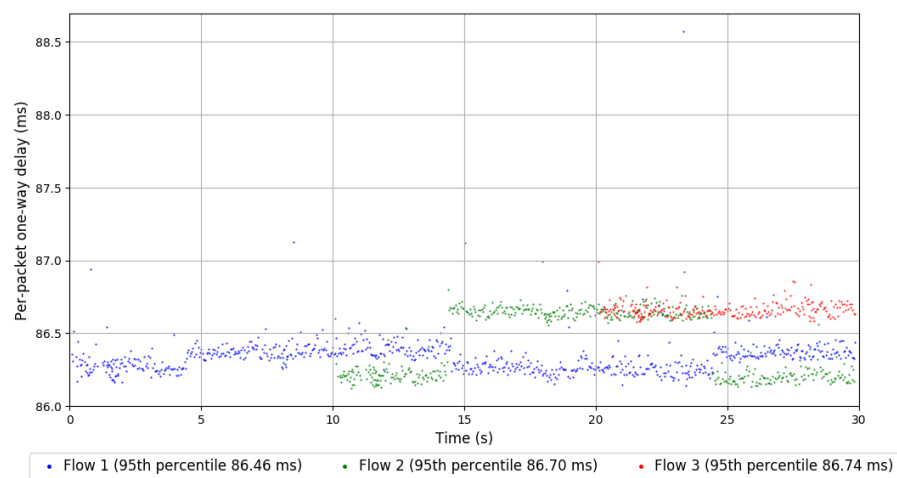
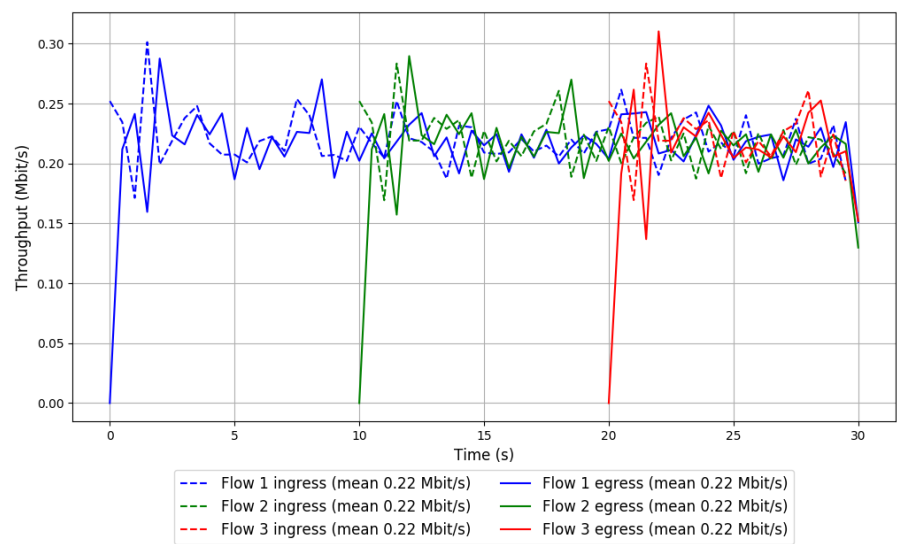
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.738 ms

Loss rate: 1.85%

Run 10: Report of SReAM — Data Link

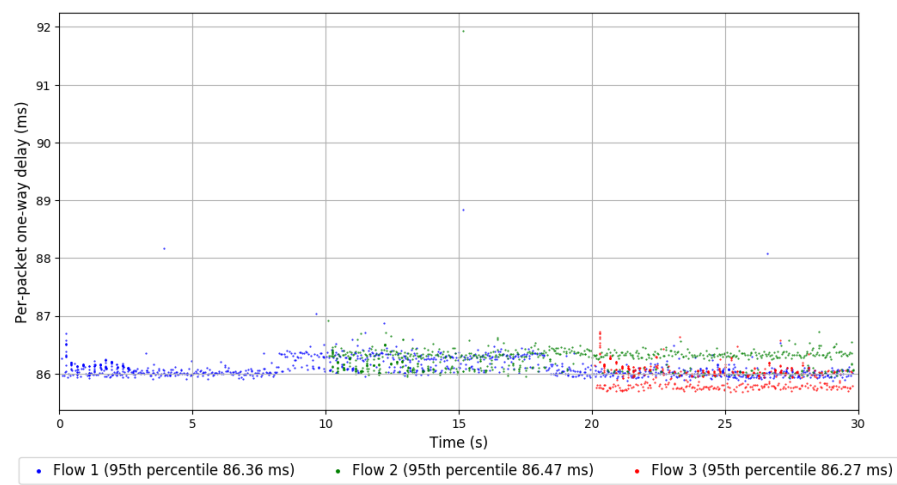
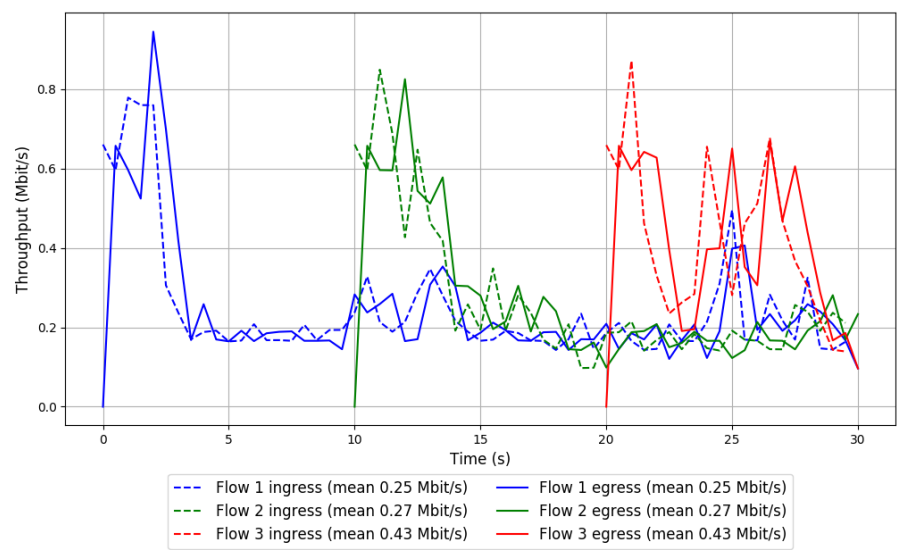


Run 1: Statistics of Sprout

Start at: 2018-06-18 23:44:09
End at: 2018-06-18 23:44:39
Local clock offset: -0.291 ms
Remote clock offset: -0.375 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 86.415 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.364 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.468 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.269 ms
Loss rate: 0.82%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-19 00:07:27

End at: 2018-06-19 00:07:57

Local clock offset: 0.101 ms

Remote clock offset: 0.287 ms

Below is generated by plot.py at 2018-06-19 04:58:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 86.670 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.698 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.497 ms

Loss rate: 0.70%

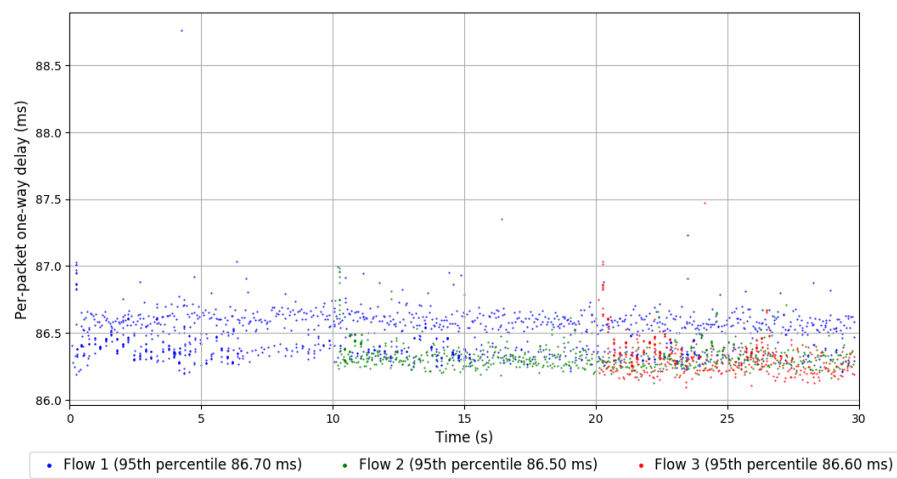
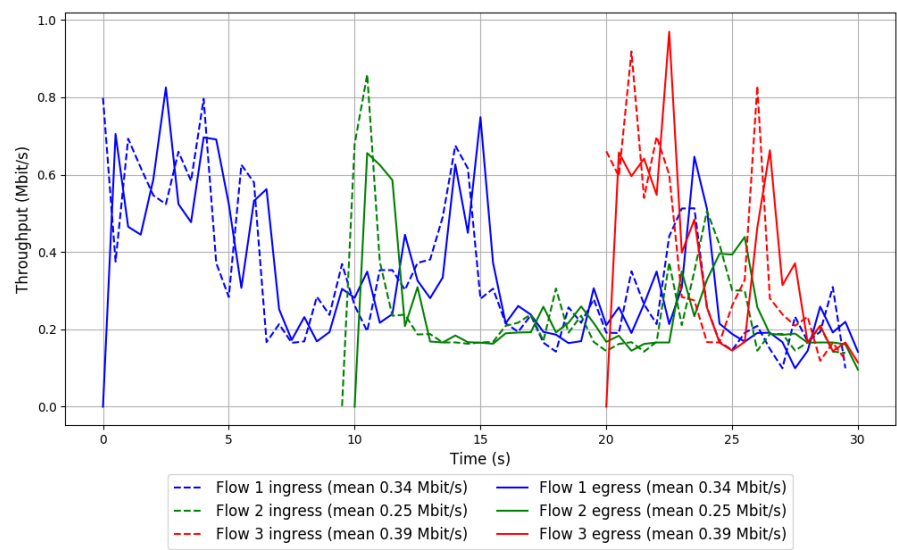
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 86.603 ms

Loss rate: 0.66%

Run 2: Report of Sprout — Data Link

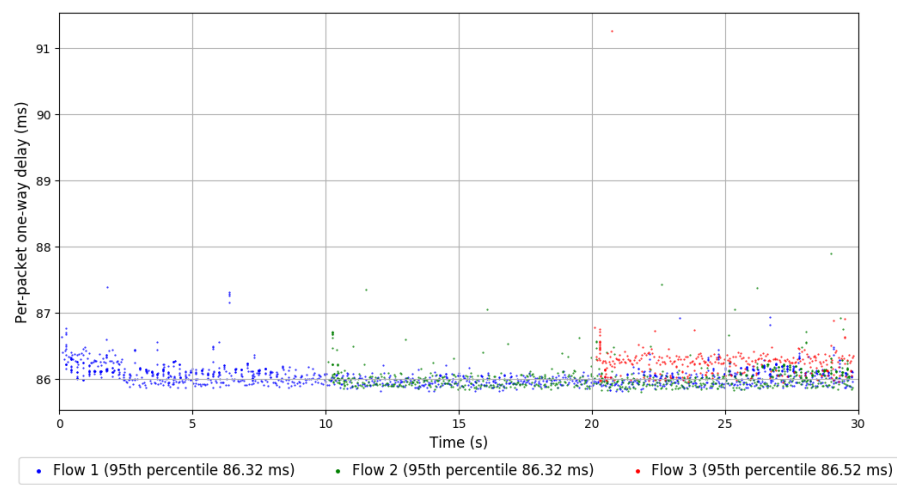
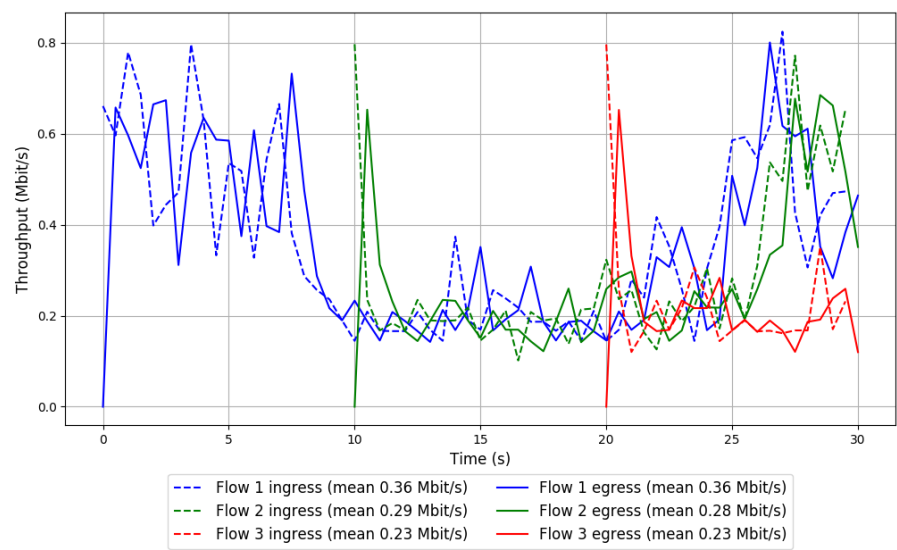


Run 3: Statistics of Sprout

Start at: 2018-06-19 00:30:25
End at: 2018-06-19 00:30:55
Local clock offset: -0.078 ms
Remote clock offset: 0.653 ms

```
# Below is generated by plot.py at 2018-06-19 04:58:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 86.382 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 86.320 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.318 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.517 ms
Loss rate: 2.98%
```

Run 3: Report of Sprout — Data Link

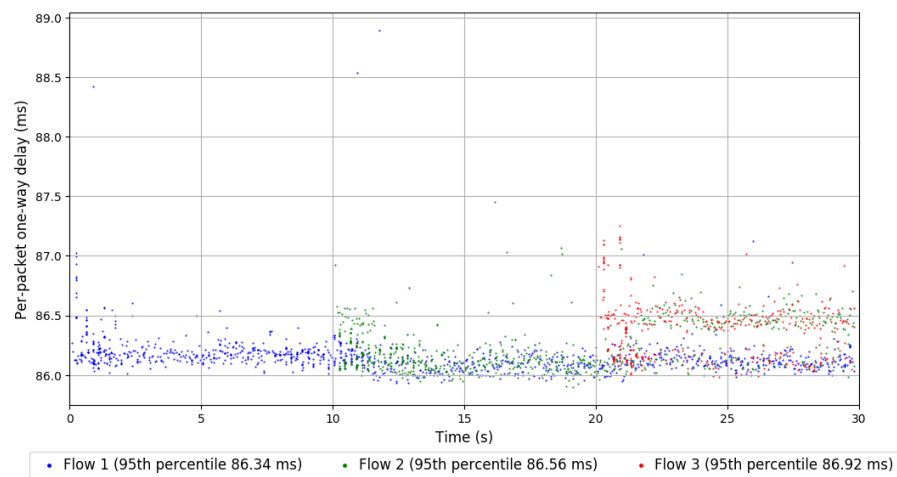
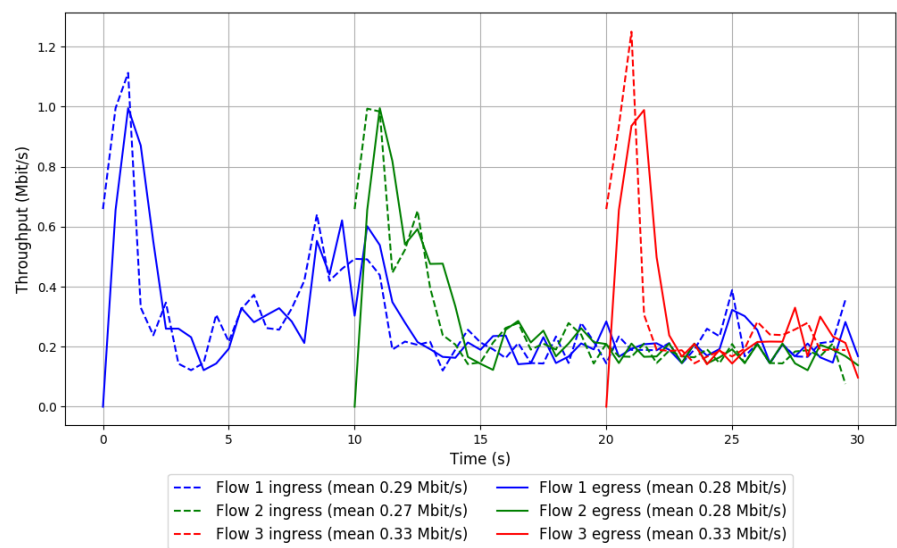


Run 4: Statistics of Sprout

Start at: 2018-06-19 00:53:26
End at: 2018-06-19 00:53:56
Local clock offset: -0.099 ms
Remote clock offset: 0.319 ms

```
# Below is generated by plot.py at 2018-06-19 04:58:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 86.561 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.338 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.563 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 86.919 ms
Loss rate: 1.47%
```

Run 4: Report of Sprout — Data Link

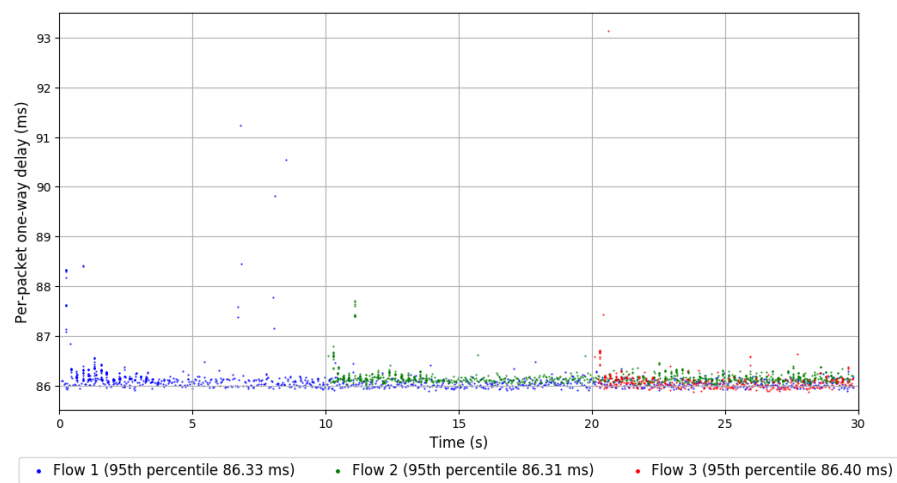
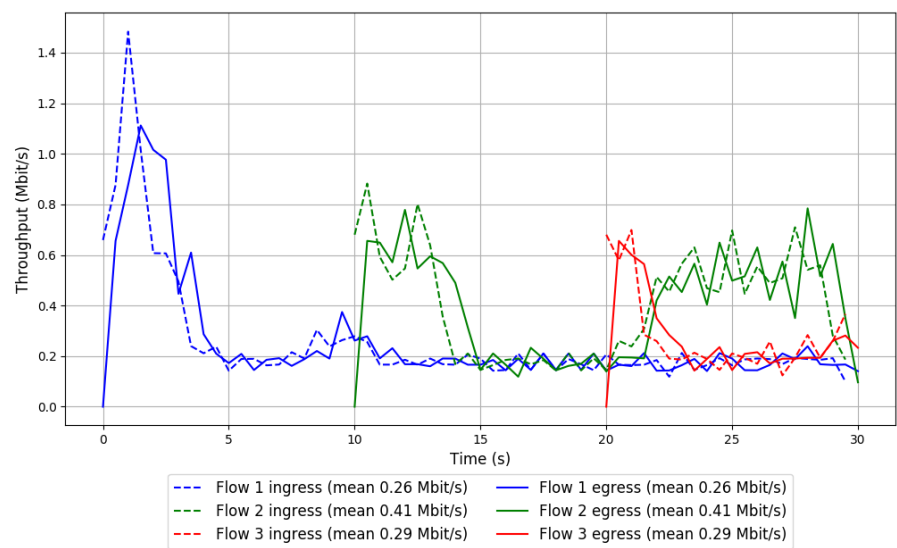


Run 5: Statistics of Sprout

Start at: 2018-06-19 01:16:58
End at: 2018-06-19 01:17:28
Local clock offset: -0.174 ms
Remote clock offset: -0.014 ms

```
# Below is generated by plot.py at 2018-06-19 04:58:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 86.326 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.326 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 86.315 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.400 ms
Loss rate: 2.41%
```


Run 5: Report of Sprout — Data Link

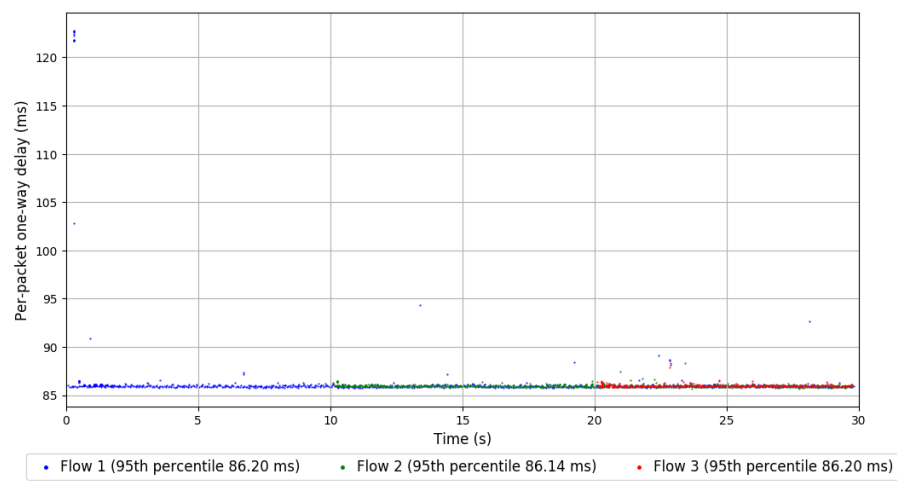
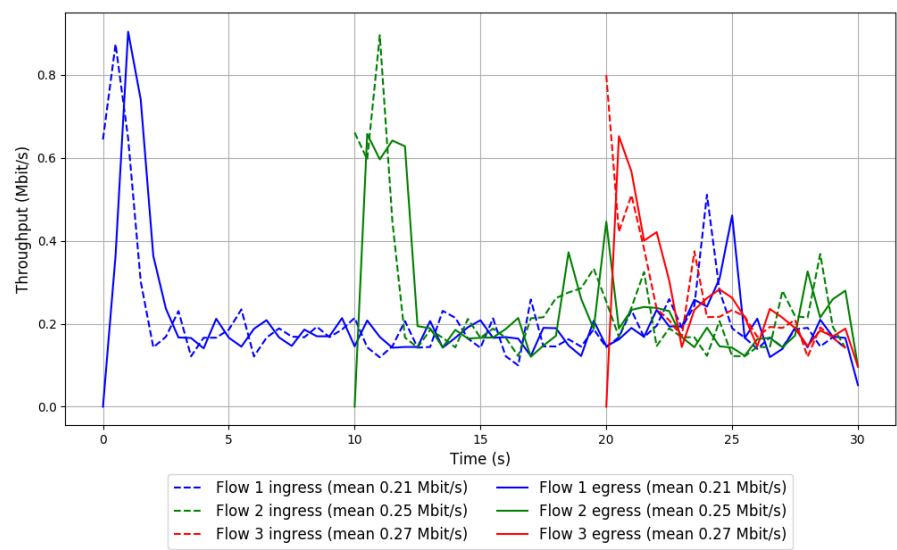


Run 6: Statistics of Sprout

Start at: 2018-06-19 01:40:06
End at: 2018-06-19 01:40:36
Local clock offset: -0.122 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.175 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.202 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.144 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.198 ms
Loss rate: 0.91%

Run 6: Report of Sprout — Data Link

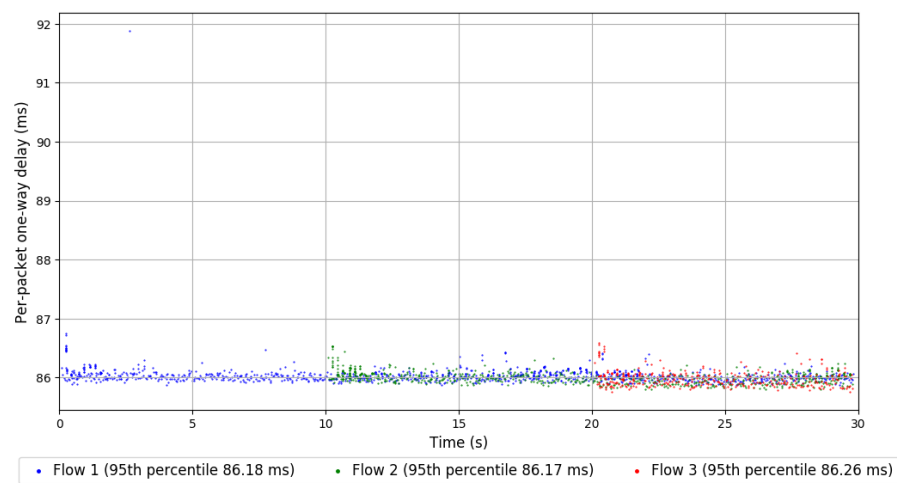
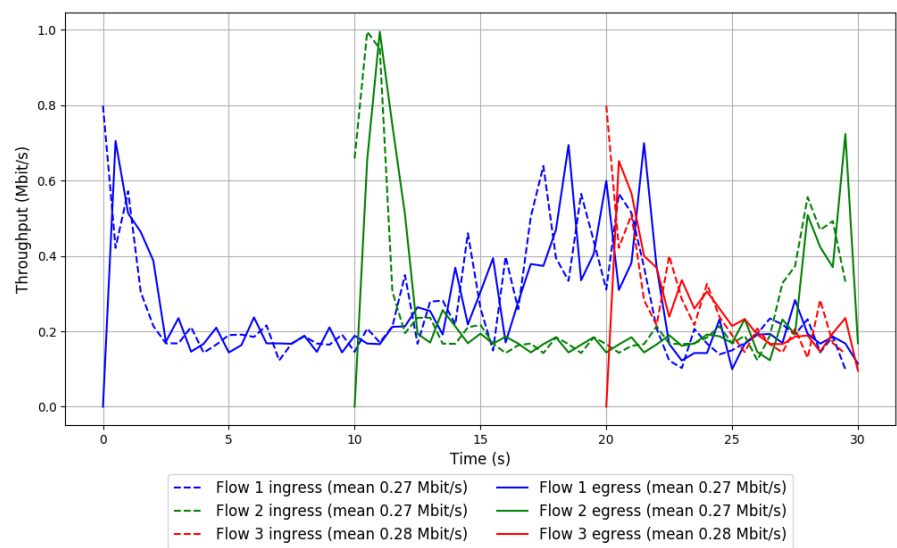


Run 7: Statistics of Sprout

Start at: 2018-06-19 02:03:20
End at: 2018-06-19 02:03:50
Local clock offset: -0.108 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 86.176 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.176 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.170 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.259 ms
Loss rate: 1.27%

Run 7: Report of Sprout — Data Link

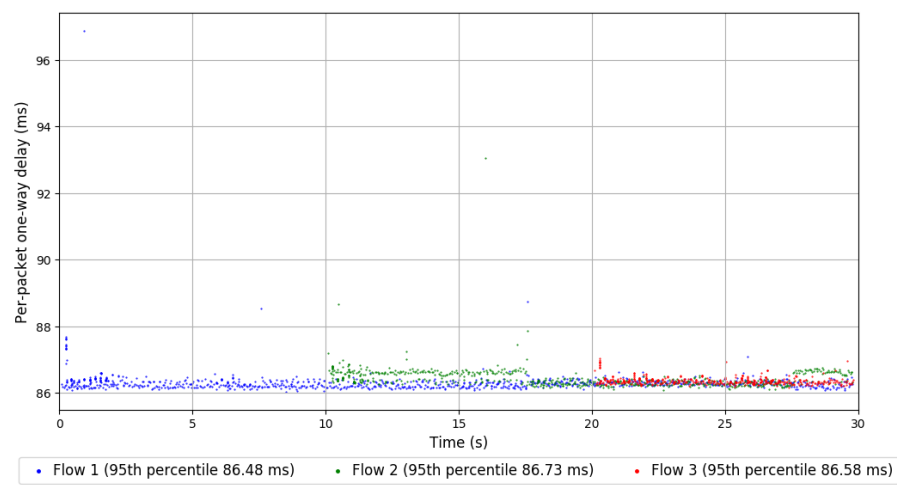
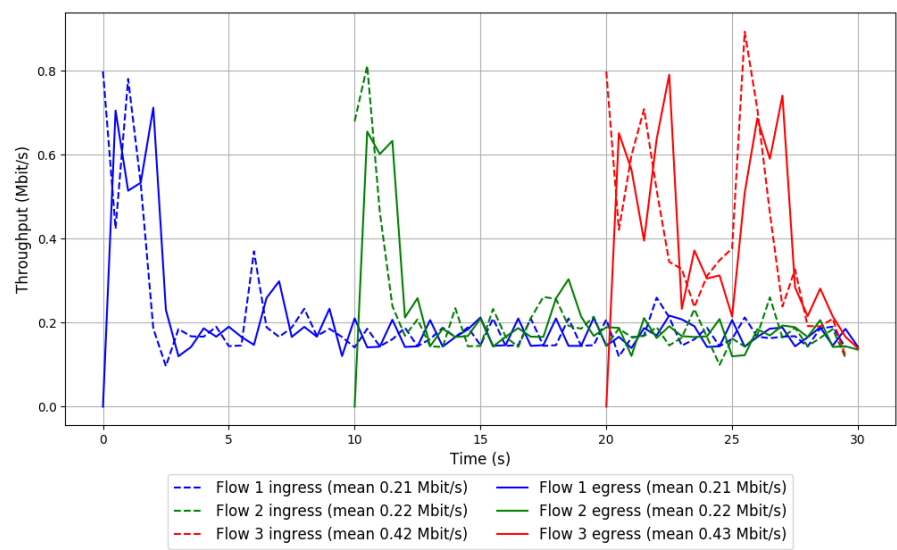


Run 8: Statistics of Sprout

Start at: 2018-06-19 02:26:30
End at: 2018-06-19 02:27:00
Local clock offset: 0.117 ms
Remote clock offset: -0.196 ms

```
# Below is generated by plot.py at 2018-06-19 04:58:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 86.672 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.481 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.734 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.575 ms
Loss rate: 0.31%
```

Run 8: Report of Sprout — Data Link

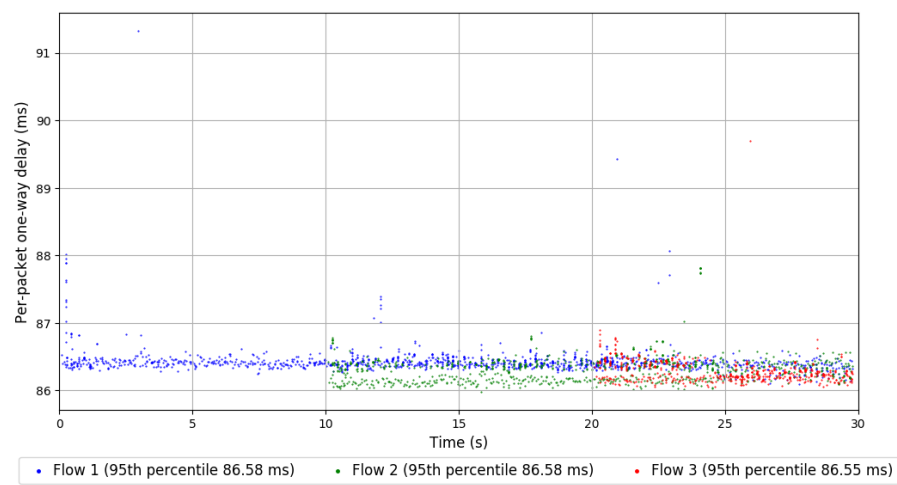
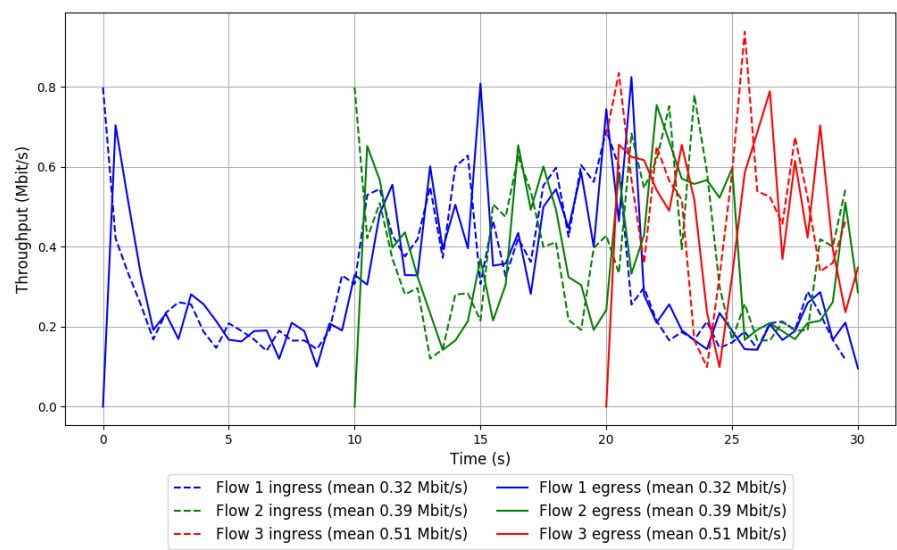


Run 9: Statistics of Sprout

Start at: 2018-06-19 02:49:33
End at: 2018-06-19 02:50:03
Local clock offset: 0.189 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 86.569 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.579 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.581 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 86.545 ms
Loss rate: 2.52%

Run 9: Report of Sprout — Data Link

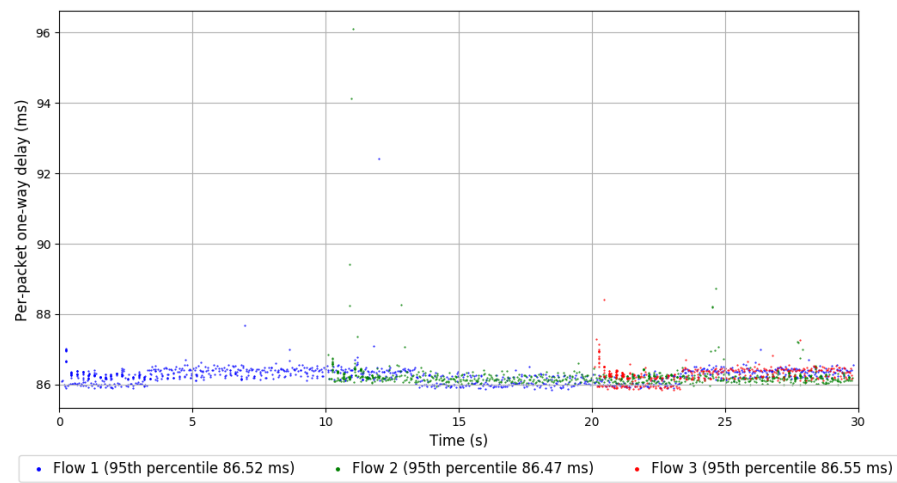
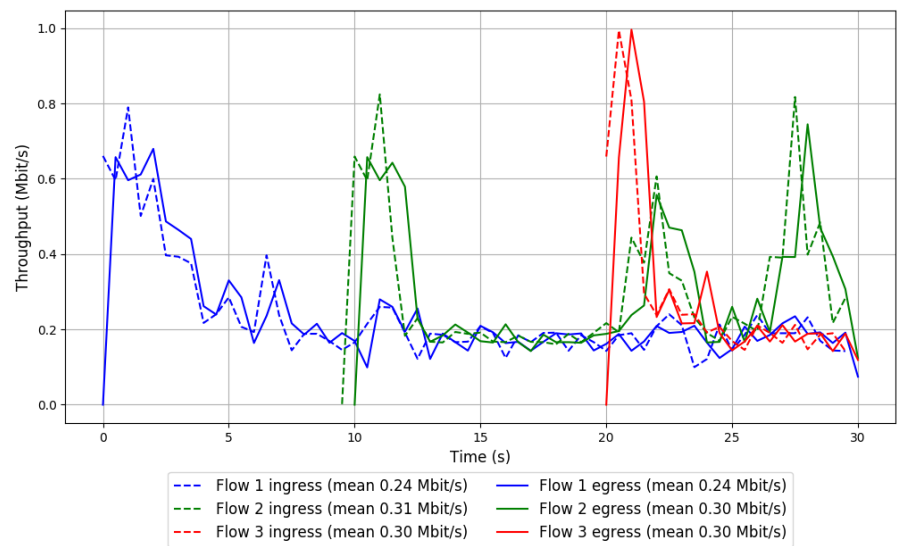


Run 10: Statistics of Sprout

Start at: 2018-06-19 03:12:34
End at: 2018-06-19 03:13:04
Local clock offset: -0.014 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-19 04:58:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 86.512 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.515 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.467 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.551 ms
Loss rate: 1.20%

Run 10: Report of Sprout — Data Link

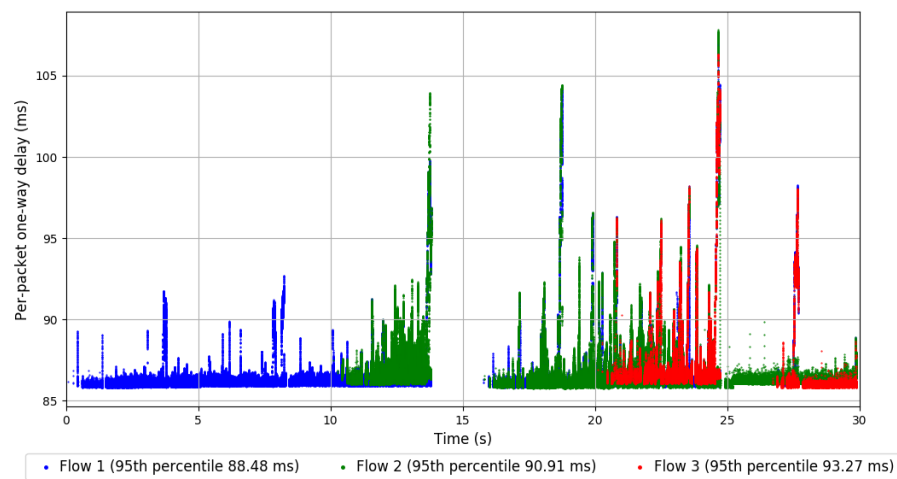
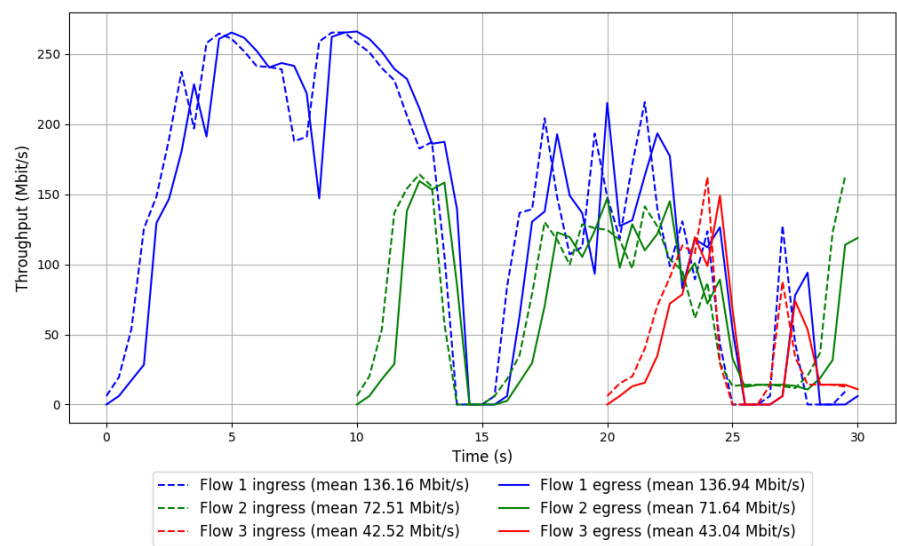


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 23:39:42
End at: 2018-06-18 23:40:12
Local clock offset: -0.121 ms
Remote clock offset: -0.679 ms

# Below is generated by plot.py at 2018-06-19 05:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.56 Mbit/s
95th percentile per-packet one-way delay: 89.790 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 136.94 Mbit/s
95th percentile per-packet one-way delay: 88.485 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 71.64 Mbit/s
95th percentile per-packet one-way delay: 90.909 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 43.04 Mbit/s
95th percentile per-packet one-way delay: 93.267 ms
Loss rate: 0.51%
```

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

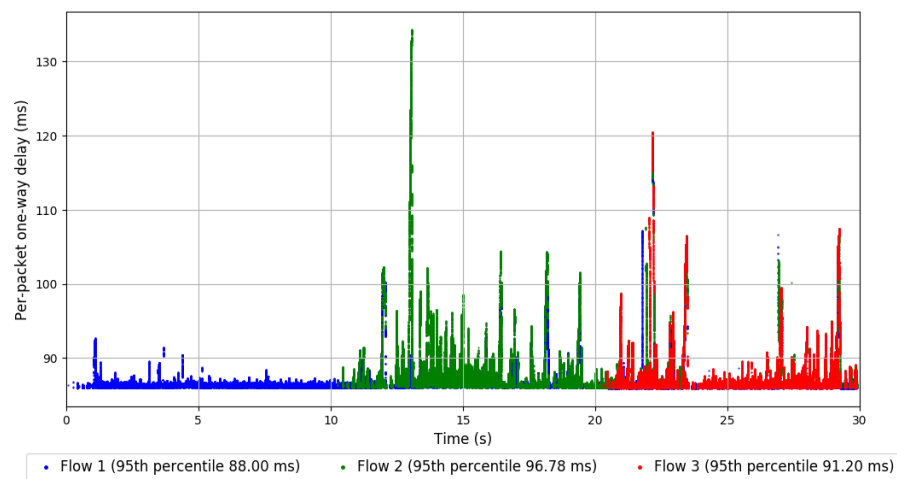
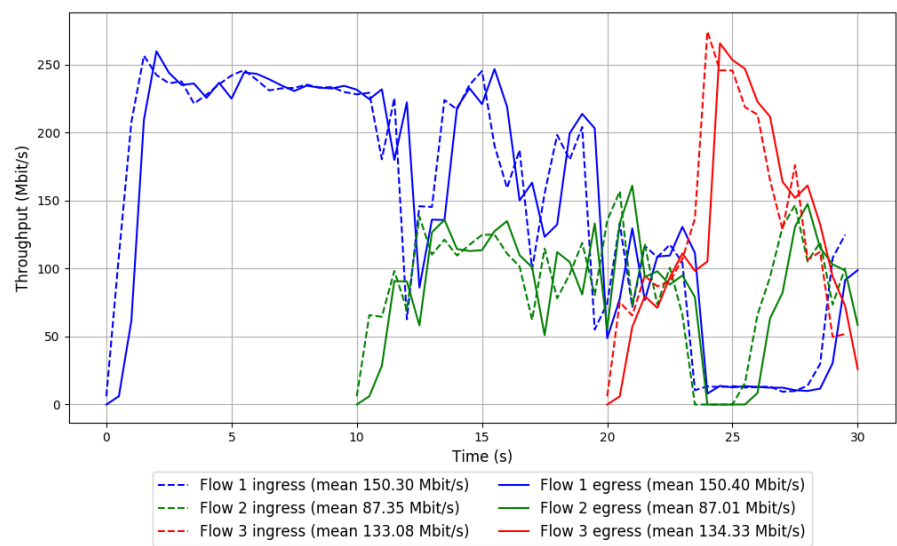


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 00:02:57
End at: 2018-06-19 00:03:27
Local clock offset: 0.059 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-06-19 05:02:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.17 Mbit/s
95th percentile per-packet one-way delay: 90.826 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 150.40 Mbit/s
95th percentile per-packet one-way delay: 88.005 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 96.785 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 134.33 Mbit/s
95th percentile per-packet one-way delay: 91.197 ms
Loss rate: 0.97%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 00:25:58

End at: 2018-06-19 00:26:28

Local clock offset: 0.099 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2018-06-19 05:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.12 Mbit/s

95th percentile per-packet one-way delay: 90.464 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 150.52 Mbit/s

95th percentile per-packet one-way delay: 88.708 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 106.11 Mbit/s

95th percentile per-packet one-way delay: 92.264 ms

Loss rate: 0.60%

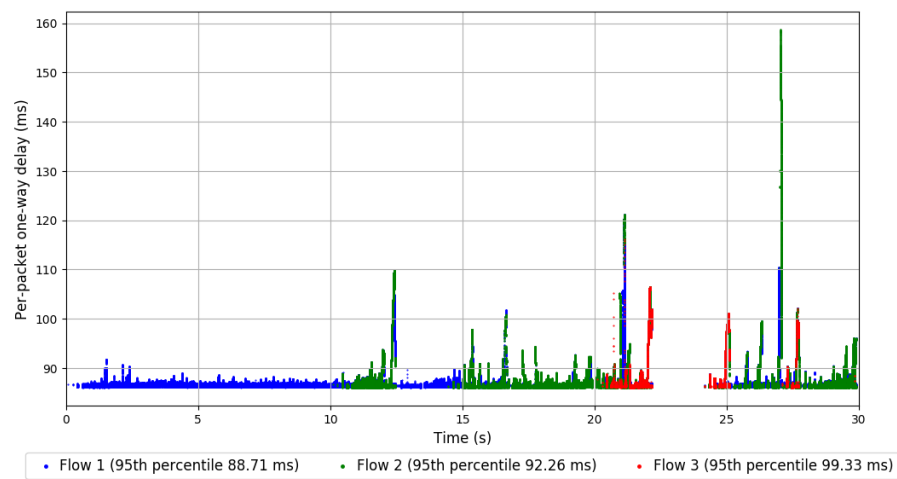
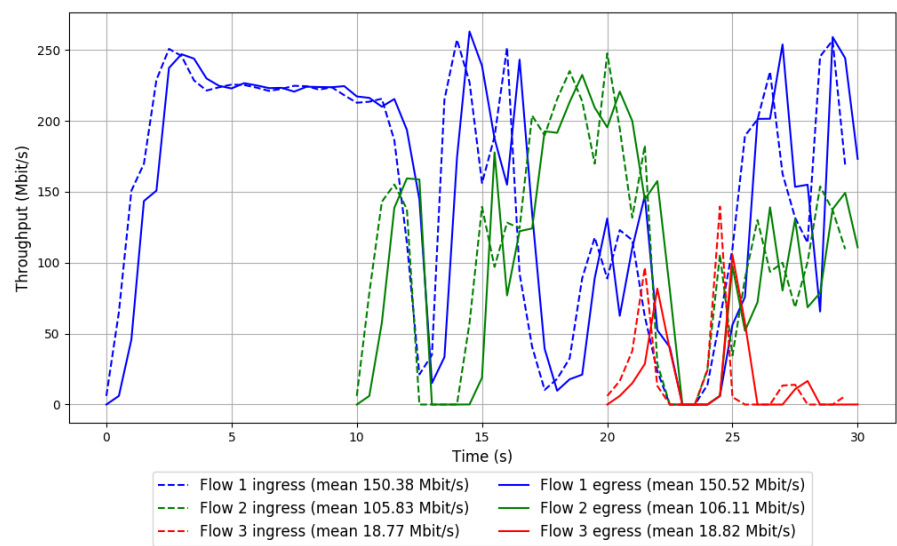
-- Flow 3:

Average throughput: 18.82 Mbit/s

95th percentile per-packet one-way delay: 99.327 ms

Loss rate: 1.61%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 00:49:00

End at: 2018-06-19 00:49:30

Local clock offset: -0.086 ms

Remote clock offset: 0.545 ms

Below is generated by plot.py at 2018-06-19 05:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.02 Mbit/s

95th percentile per-packet one-way delay: 89.775 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 149.13 Mbit/s

95th percentile per-packet one-way delay: 88.074 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 93.249 ms

Loss rate: 0.08%

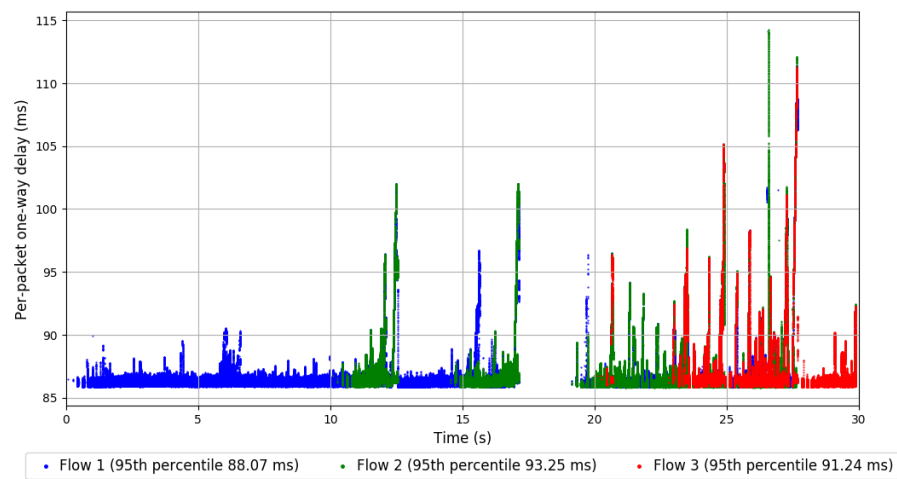
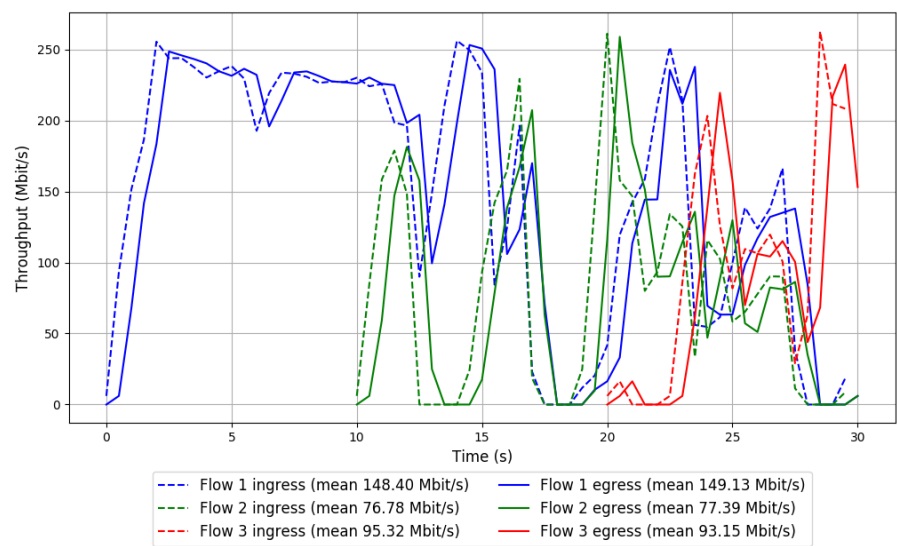
-- Flow 3:

Average throughput: 93.15 Mbit/s

95th percentile per-packet one-way delay: 91.240 ms

Loss rate: 3.97%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 01:12:29

End at: 2018-06-19 01:12:59

Local clock offset: 0.093 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-19 05:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.93 Mbit/s

95th percentile per-packet one-way delay: 91.137 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 125.00 Mbit/s

95th percentile per-packet one-way delay: 88.810 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 108.34 Mbit/s

95th percentile per-packet one-way delay: 92.338 ms

Loss rate: 0.17%

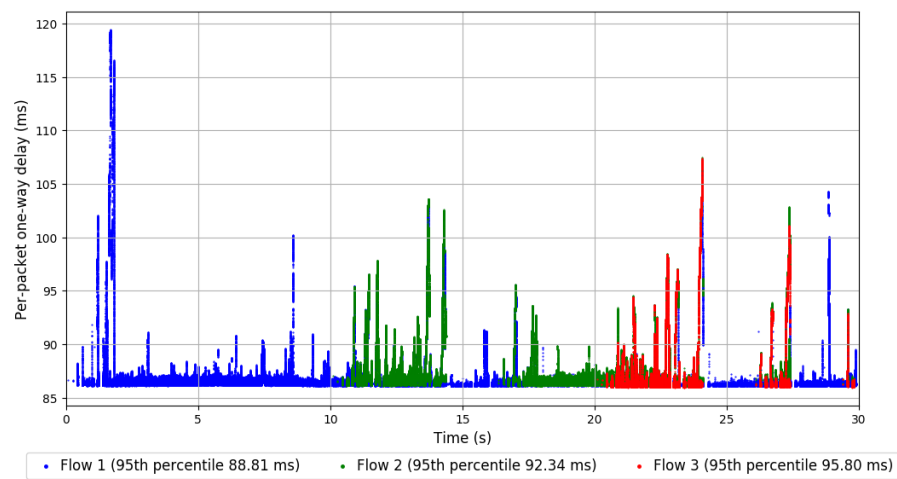
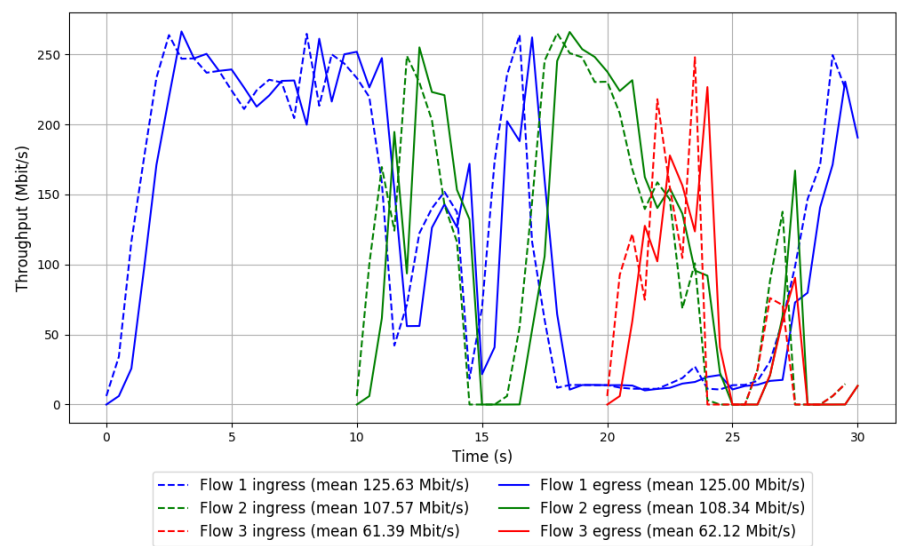
-- Flow 3:

Average throughput: 62.12 Mbit/s

95th percentile per-packet one-way delay: 95.803 ms

Loss rate: 0.60%

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

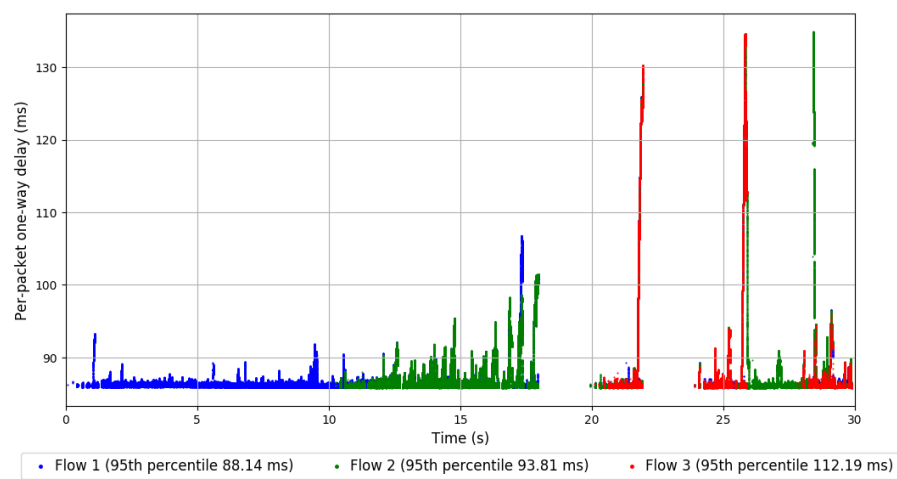
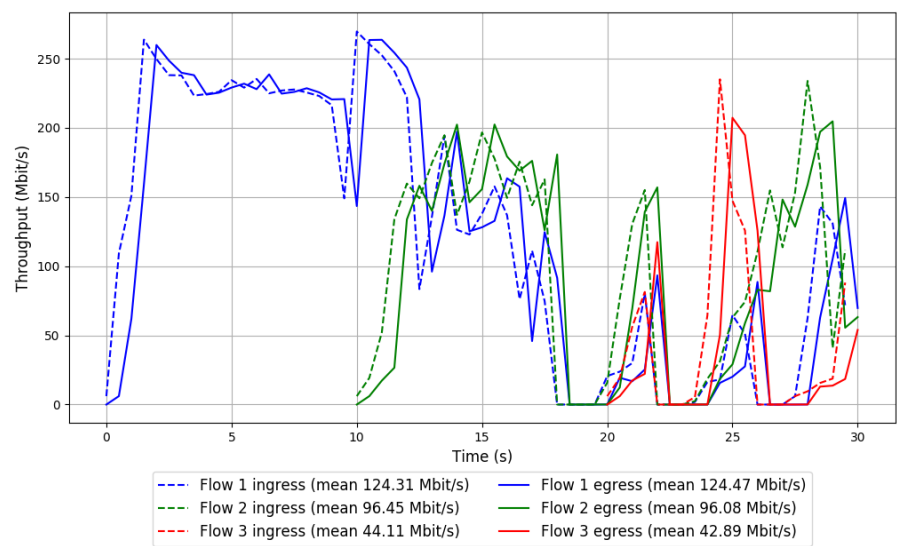


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 01:35:41
End at: 2018-06-19 01:36:11
Local clock offset: 0.037 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-19 05:02:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 202.30 Mbit/s
95th percentile per-packet one-way delay: 90.840 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 124.47 Mbit/s
95th percentile per-packet one-way delay: 88.138 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 93.808 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 42.89 Mbit/s
95th percentile per-packet one-way delay: 112.185 ms
Loss rate: 4.44%

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

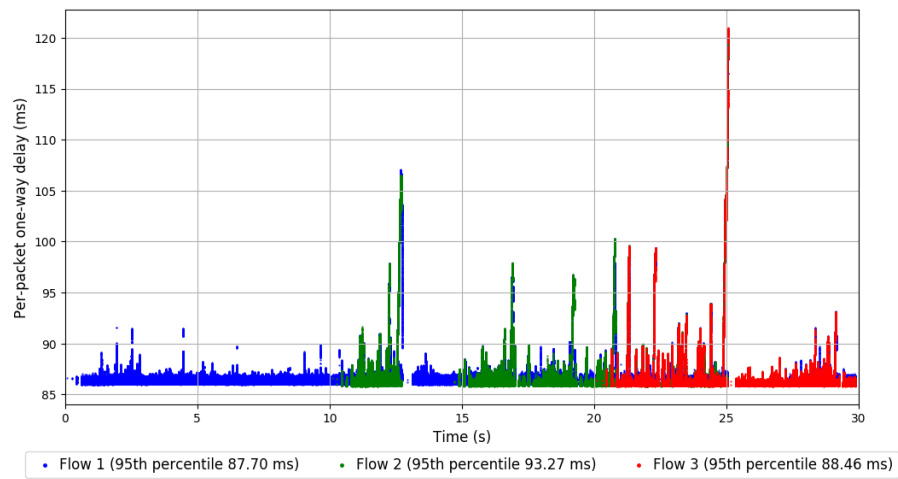
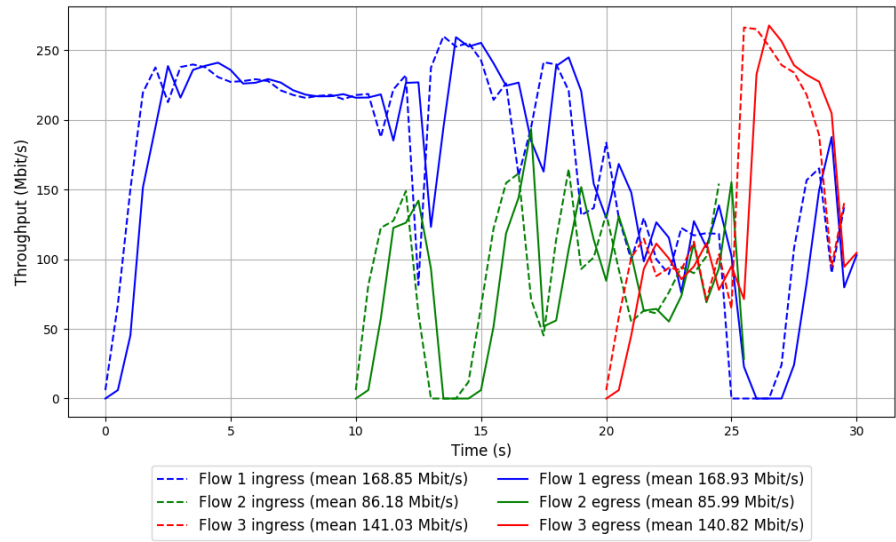


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 01:58:43
End at: 2018-06-19 01:59:13
Local clock offset: 0.031 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-06-19 05:05:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 258.31 Mbit/s
95th percentile per-packet one-way delay: 88.622 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 168.93 Mbit/s
95th percentile per-packet one-way delay: 87.701 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 85.99 Mbit/s
95th percentile per-packet one-way delay: 93.265 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 140.82 Mbit/s
95th percentile per-packet one-way delay: 88.462 ms
Loss rate: 1.88%

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

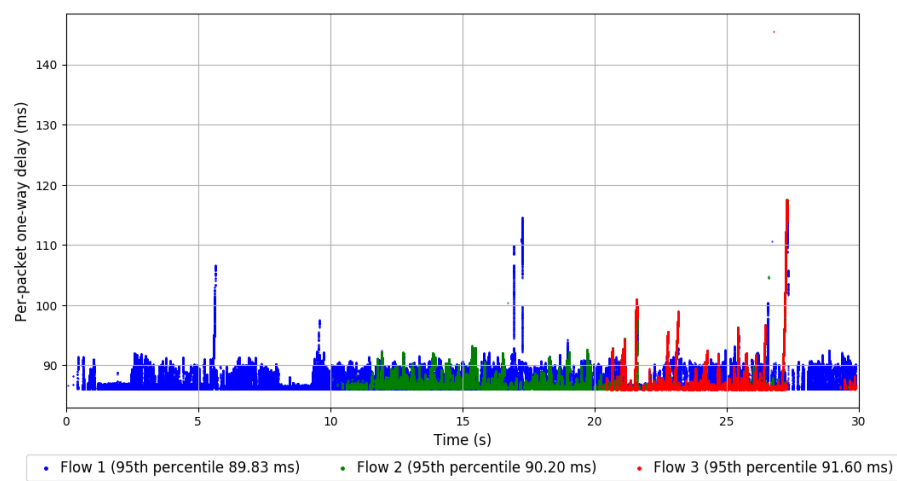
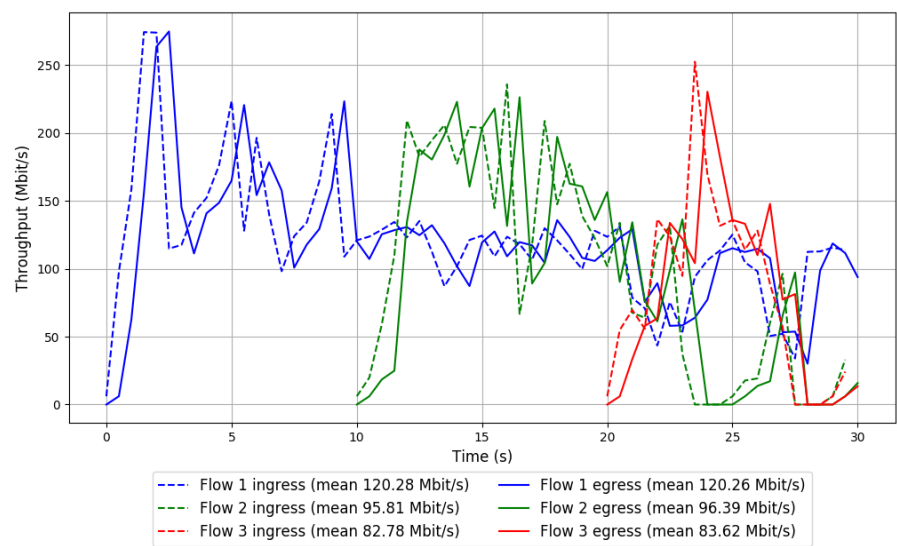


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 02:22:02
End at: 2018-06-19 02:22:32
Local clock offset: 0.127 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-06-19 05:06:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 211.60 Mbit/s
95th percentile per-packet one-way delay: 90.069 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 120.26 Mbit/s
95th percentile per-packet one-way delay: 89.835 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 90.203 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 83.62 Mbit/s
95th percentile per-packet one-way delay: 91.597 ms
Loss rate: 0.65%

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

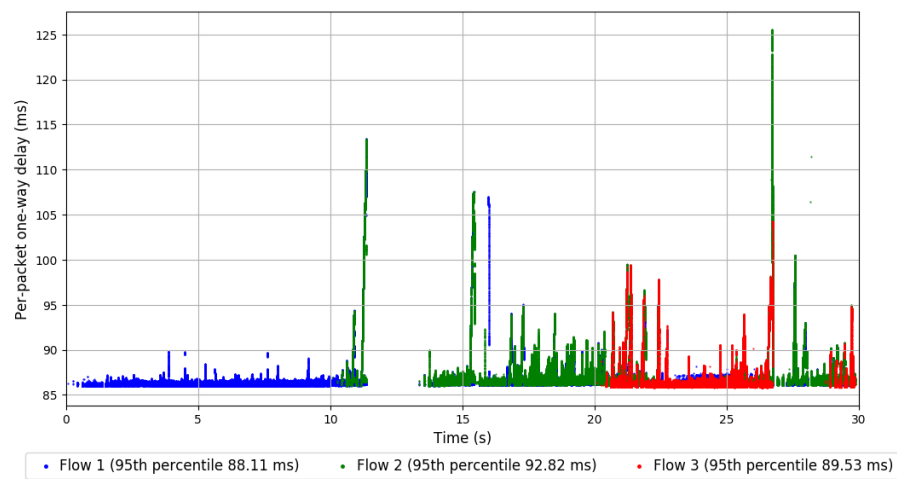
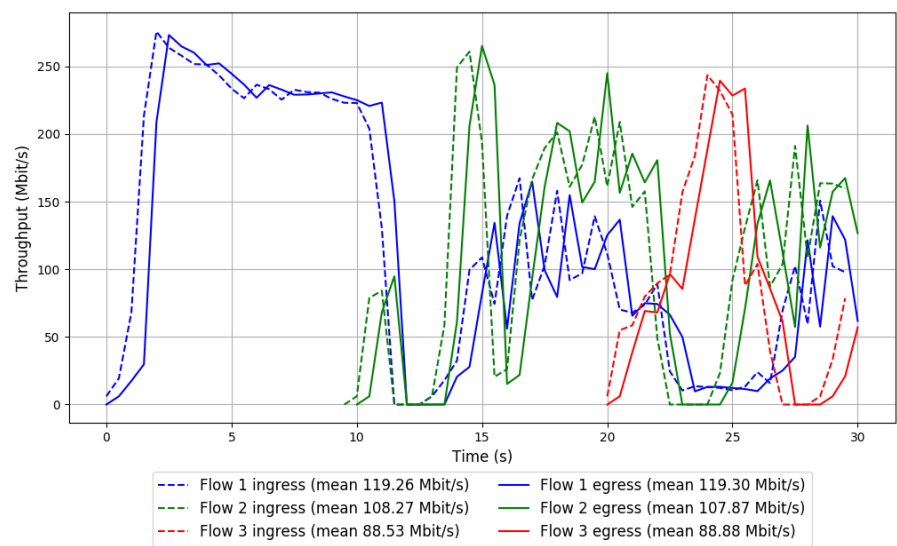


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 02:45:03
End at: 2018-06-19 02:45:33
Local clock offset: 0.061 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-19 05:07:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 220.01 Mbit/s
95th percentile per-packet one-way delay: 89.695 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 119.30 Mbit/s
95th percentile per-packet one-way delay: 88.114 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 107.87 Mbit/s
95th percentile per-packet one-way delay: 92.820 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 88.88 Mbit/s
95th percentile per-packet one-way delay: 89.525 ms
Loss rate: 1.94%

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

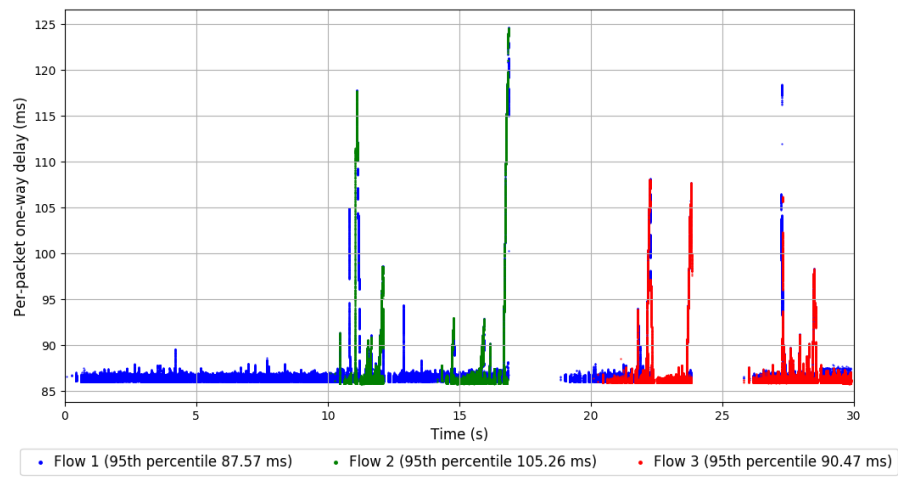
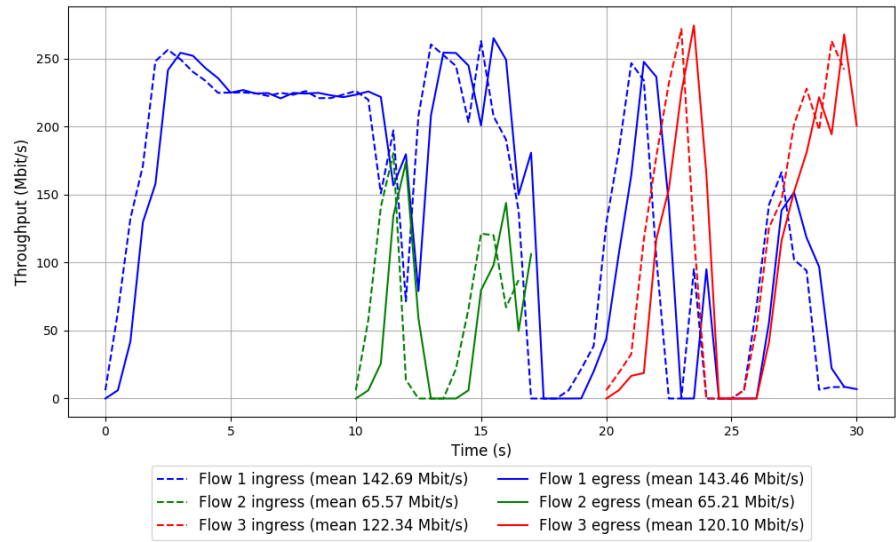


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 03:08:08
End at: 2018-06-19 03:08:38
Local clock offset: -0.005 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-19 05:08:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 197.73 Mbit/s
95th percentile per-packet one-way delay: 89.280 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 143.46 Mbit/s
95th percentile per-packet one-way delay: 87.567 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 105.259 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.10 Mbit/s
95th percentile per-packet one-way delay: 90.475 ms
Loss rate: 3.53%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 23:52:40

End at: 2018-06-18 23:53:10

Local clock offset: -0.115 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-19 05:08:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.50 Mbit/s

95th percentile per-packet one-way delay: 89.496 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 88.984 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 89.994 ms

Loss rate: 0.96%

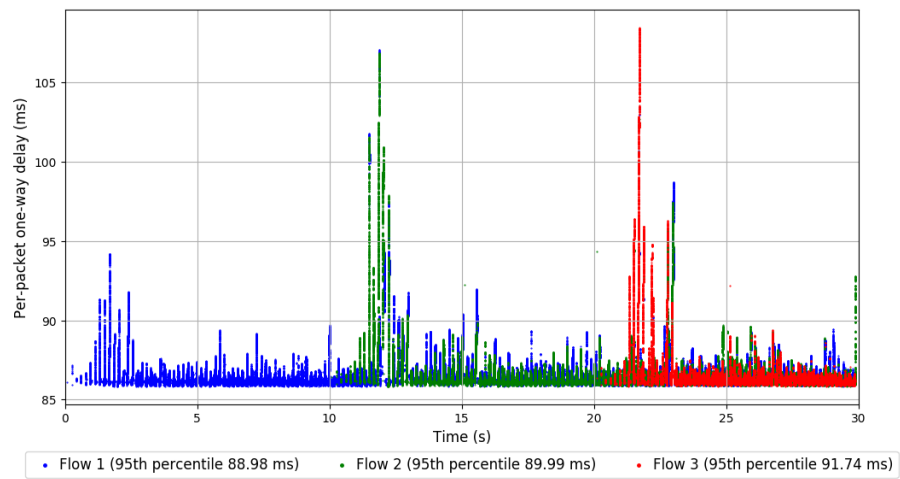
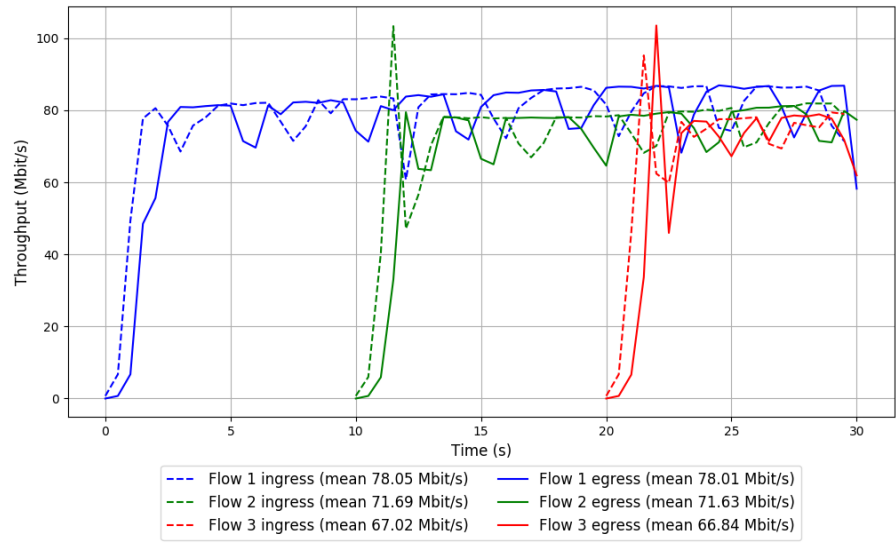
-- Flow 3:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 91.737 ms

Loss rate: 1.99%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 00:15:48

End at: 2018-06-19 00:16:18

Local clock offset: 0.146 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-06-19 05:08:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.18 Mbit/s

95th percentile per-packet one-way delay: 98.371 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 97.653 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 129.66 Mbit/s

95th percentile per-packet one-way delay: 98.086 ms

Loss rate: 0.95%

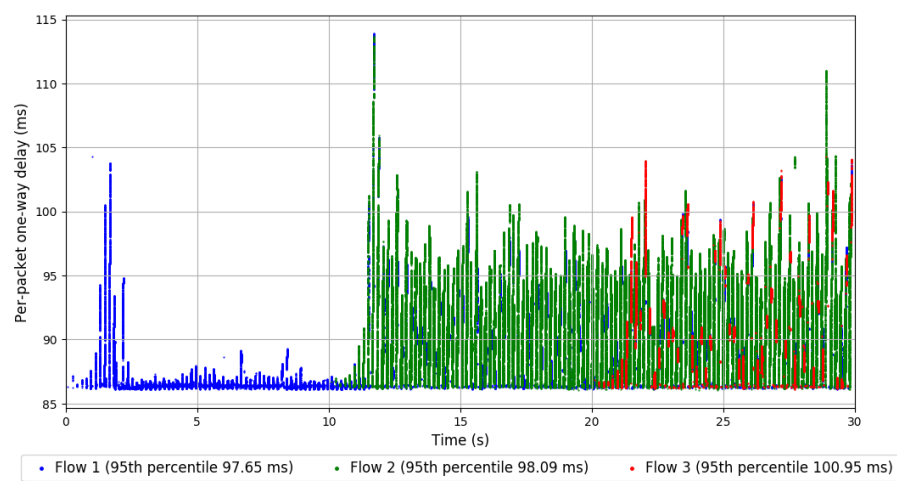
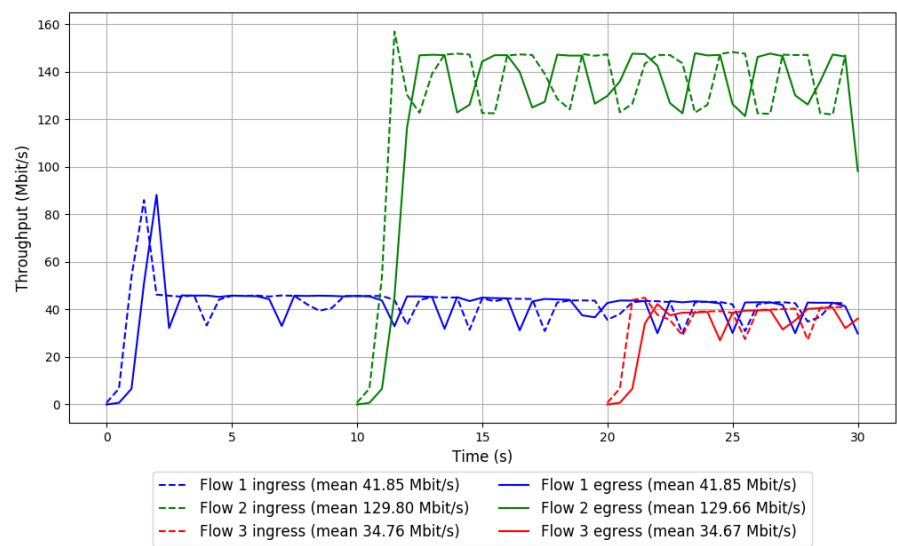
-- Flow 3:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 100.952 ms

Loss rate: 1.98%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 00:38:49

End at: 2018-06-19 00:39:19

Local clock offset: 0.015 ms

Remote clock offset: 0.713 ms

Below is generated by plot.py at 2018-06-19 05:08:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.85 Mbit/s

95th percentile per-packet one-way delay: 96.452 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 96.117 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 129.50 Mbit/s

95th percentile per-packet one-way delay: 96.665 ms

Loss rate: 0.94%

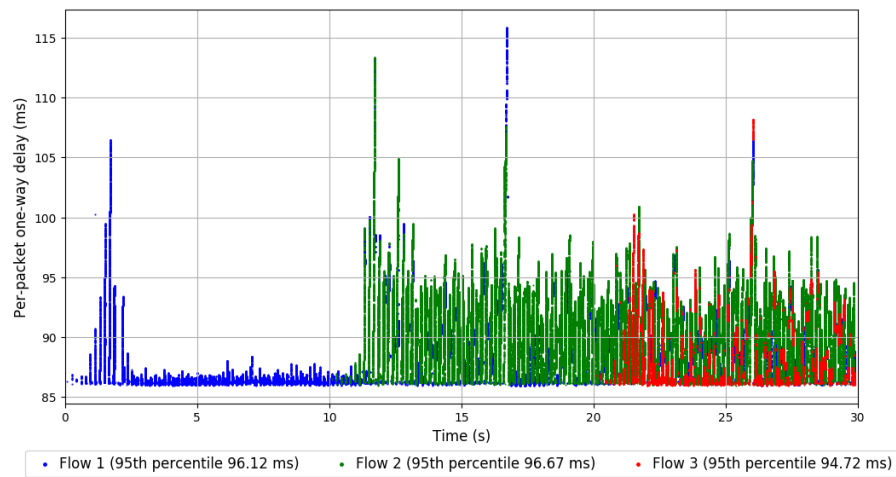
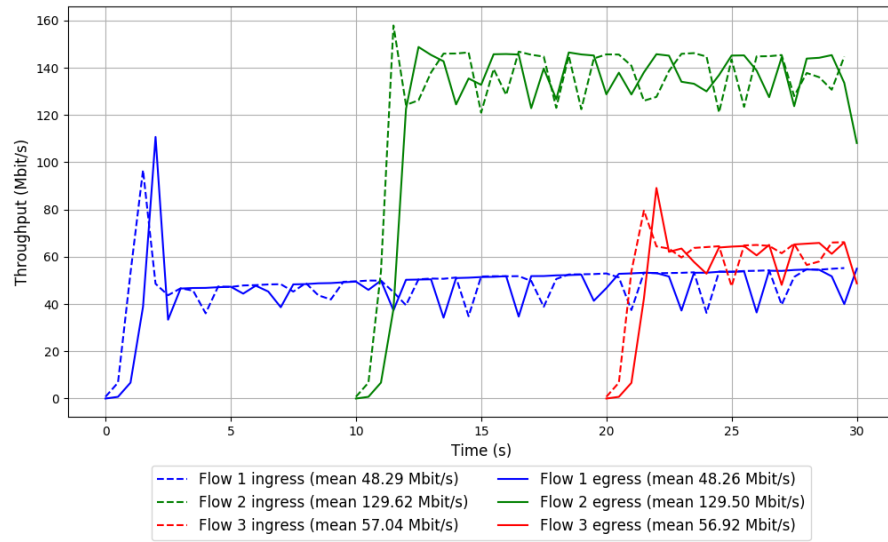
-- Flow 3:

Average throughput: 56.92 Mbit/s

95th percentile per-packet one-way delay: 94.725 ms

Loss rate: 1.94%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 01:02:08

End at: 2018-06-19 01:02:38

Local clock offset: 0.105 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-06-19 05:08:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.39 Mbit/s

95th percentile per-packet one-way delay: 89.582 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 106.91 Mbit/s

95th percentile per-packet one-way delay: 90.438 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 103.30 Mbit/s

95th percentile per-packet one-way delay: 88.102 ms

Loss rate: 0.95%

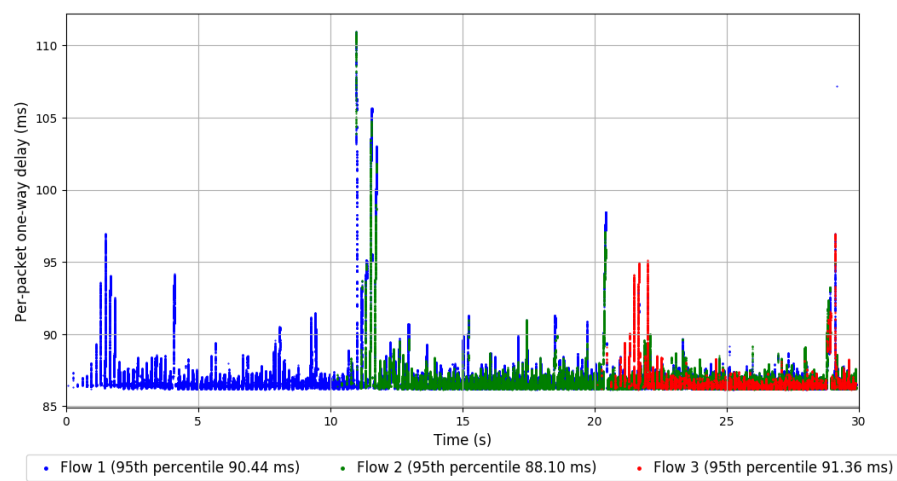
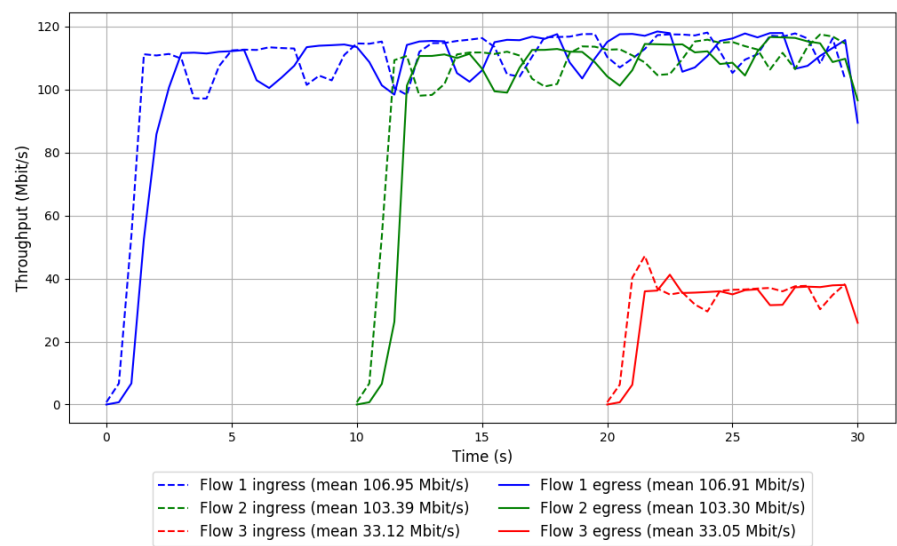
-- Flow 3:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 91.360 ms

Loss rate: 1.94%

Run 4: Report of TCP Vegas — Data Link

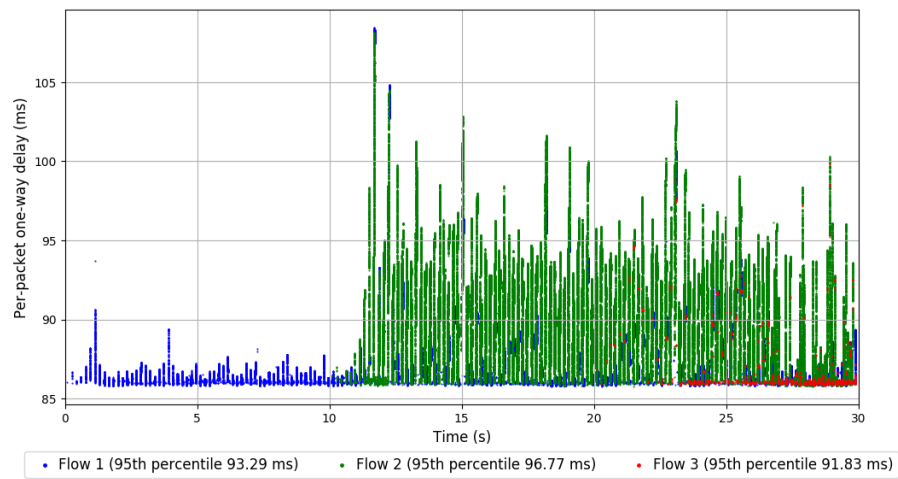
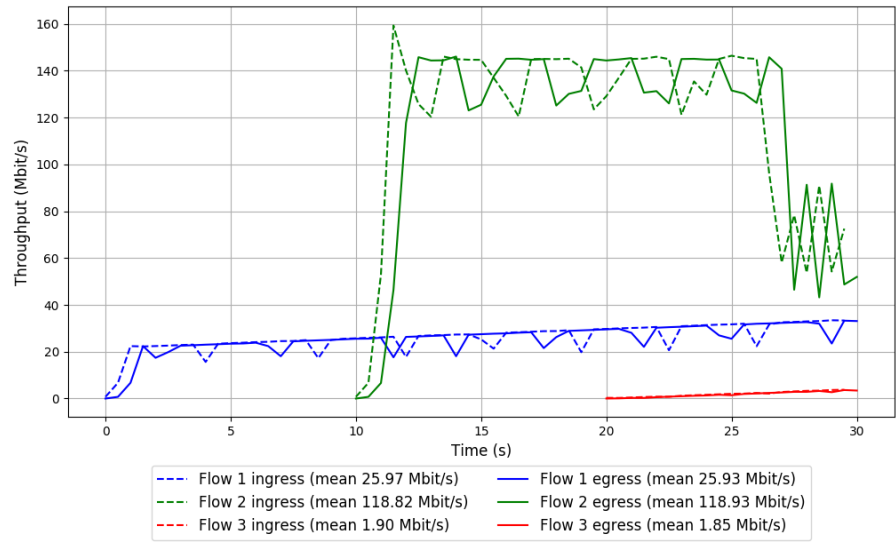


Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 01:25:26
End at: 2018-06-19 01:25:56
Local clock offset: -0.188 ms
Remote clock offset: -0.028 ms

```
# Below is generated by plot.py at 2018-06-19 05:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.40 Mbit/s
95th percentile per-packet one-way delay: 96.198 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 25.93 Mbit/s
95th percentile per-packet one-way delay: 93.293 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 118.93 Mbit/s
95th percentile per-packet one-way delay: 96.771 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 91.831 ms
Loss rate: 4.06%
```


Run 5: Report of TCP Vegas — Data Link

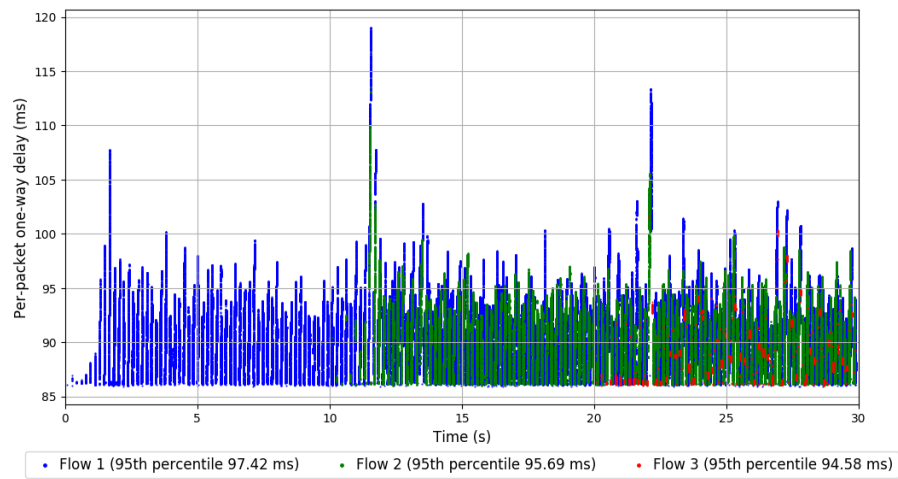
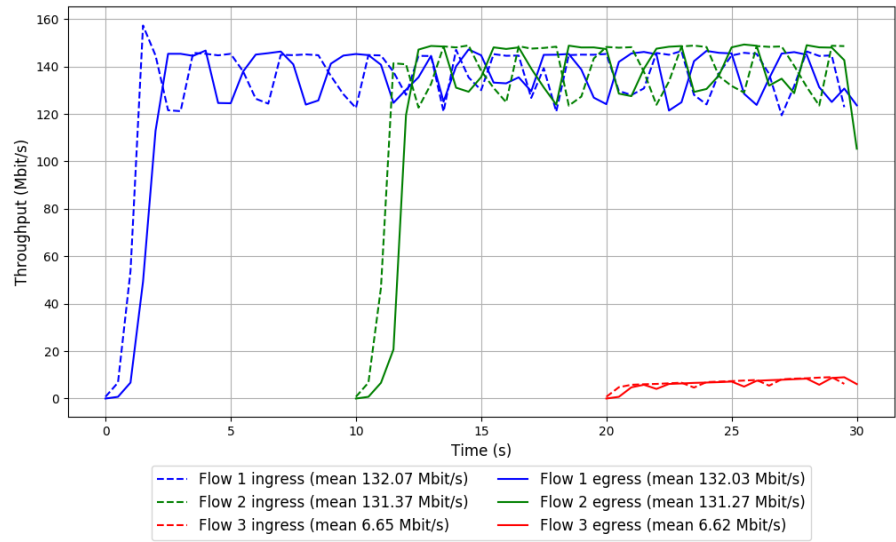


Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 01:48:40
End at: 2018-06-19 01:49:10
Local clock offset: 0.061 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-19 05:08:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 221.24 Mbit/s
95th percentile per-packet one-way delay: 96.704 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 132.03 Mbit/s
95th percentile per-packet one-way delay: 97.425 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 131.27 Mbit/s
95th percentile per-packet one-way delay: 95.685 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 94.578 ms
Loss rate: 2.32%

Run 6: Report of TCP Vegas — Data Link

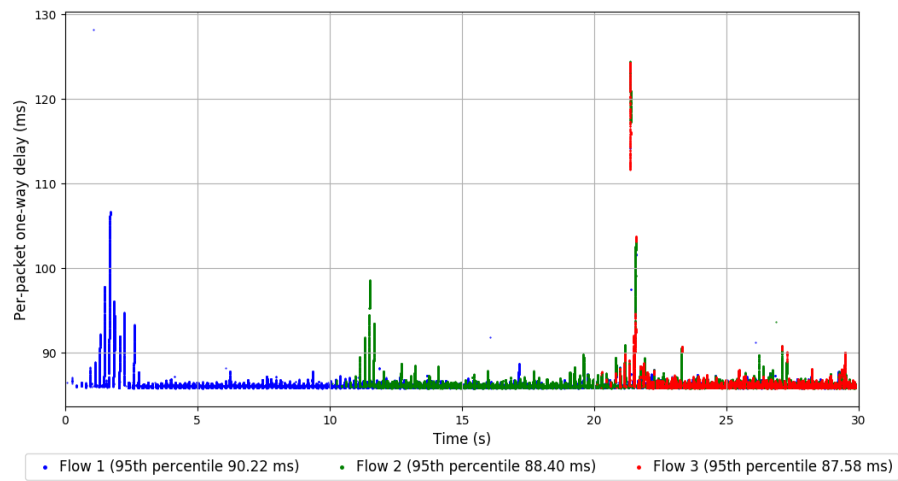
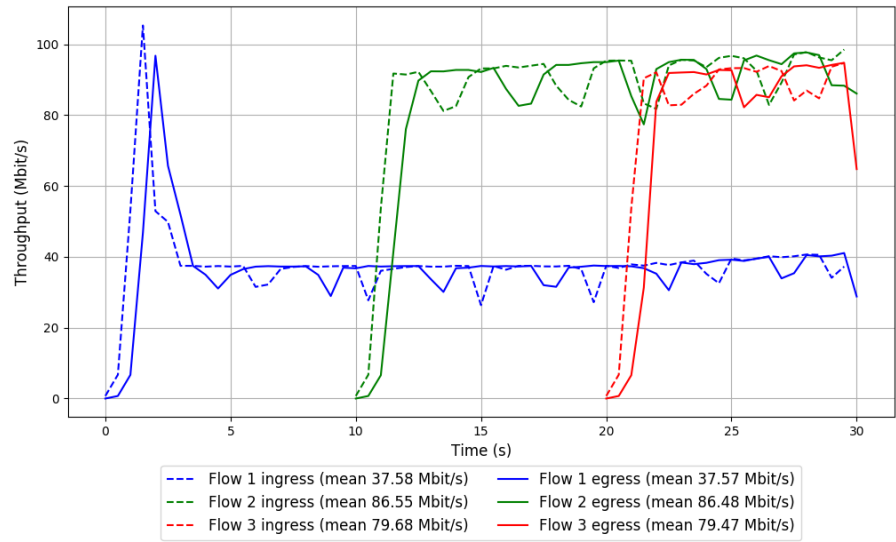


Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 02:11:58
End at: 2018-06-19 02:12:28
Local clock offset: -0.154 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-06-19 05:08:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 121.07 Mbit/s
95th percentile per-packet one-way delay: 88.429 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 37.57 Mbit/s
95th percentile per-packet one-way delay: 90.225 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 86.48 Mbit/s
95th percentile per-packet one-way delay: 88.397 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 79.47 Mbit/s
95th percentile per-packet one-way delay: 87.578 ms
Loss rate: 2.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 02:34:55

End at: 2018-06-19 02:35:25

Local clock offset: 0.145 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-19 05:08:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.97 Mbit/s

95th percentile per-packet one-way delay: 95.703 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 93.406 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 124.47 Mbit/s

95th percentile per-packet one-way delay: 96.190 ms

Loss rate: 0.51%

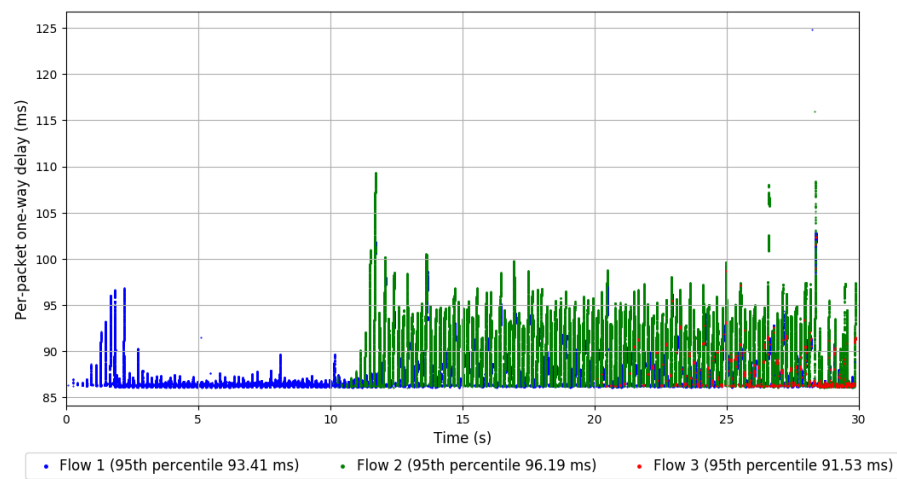
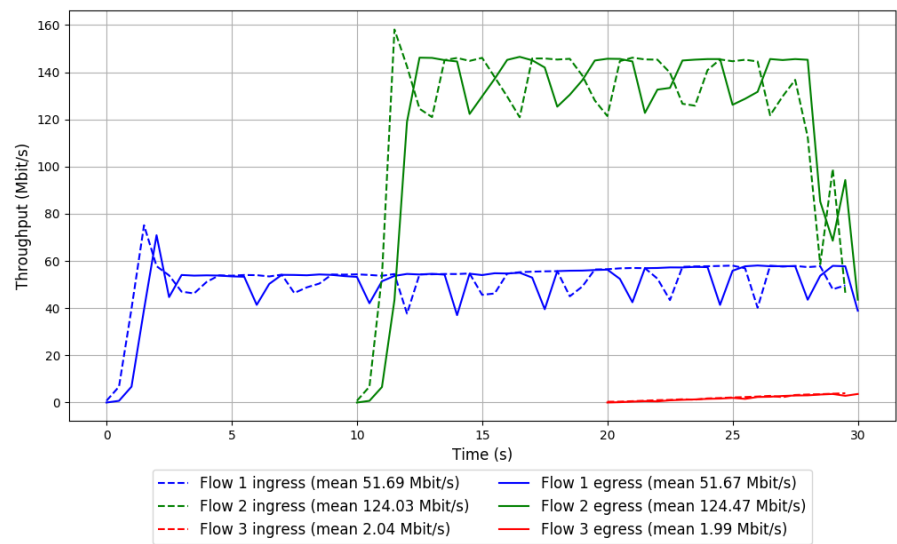
-- Flow 3:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 91.530 ms

Loss rate: 3.91%

Run 8: Report of TCP Vegas — Data Link

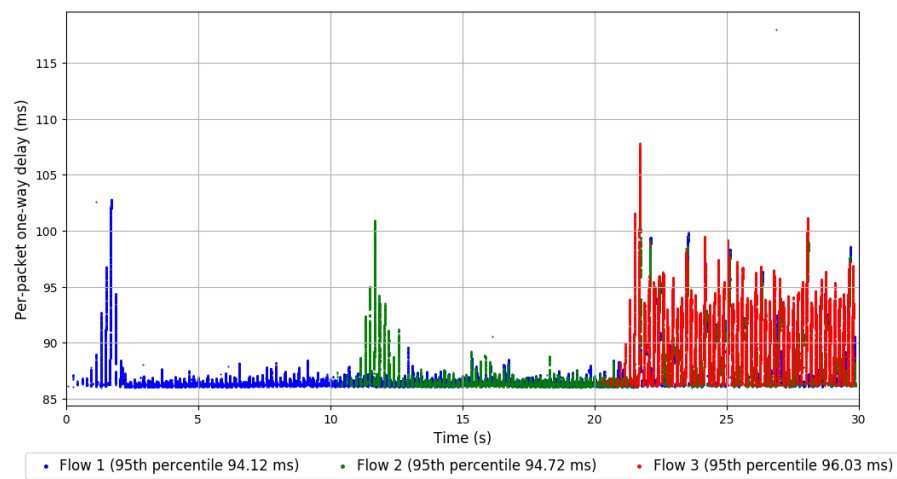
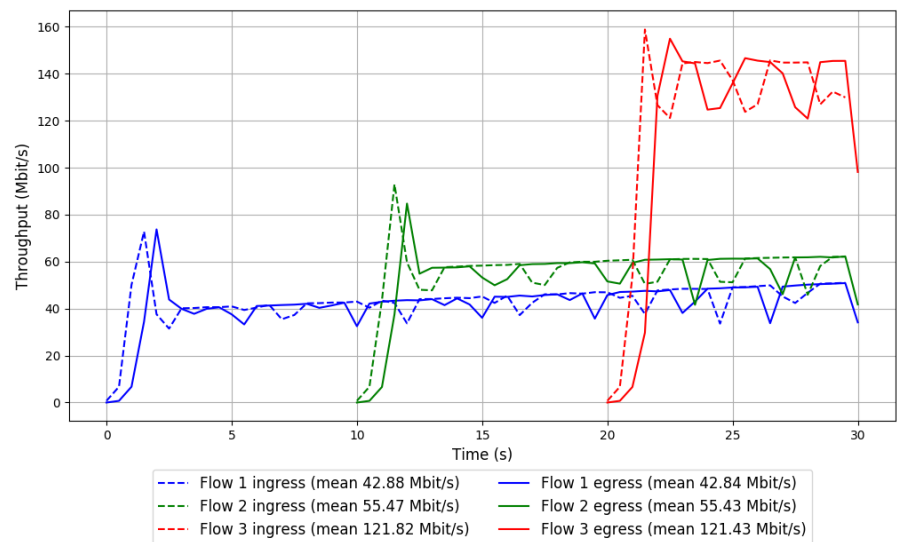


Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 02:58:01
End at: 2018-06-19 02:58:31
Local clock offset: 0.085 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-19 05:08:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 119.19 Mbit/s
95th percentile per-packet one-way delay: 95.522 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 42.84 Mbit/s
95th percentile per-packet one-way delay: 94.124 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 94.718 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 121.43 Mbit/s
95th percentile per-packet one-way delay: 96.026 ms
Loss rate: 2.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 03:21:09

End at: 2018-06-19 03:21:39

Local clock offset: 0.199 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-19 05:08:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.44 Mbit/s

95th percentile per-packet one-way delay: 98.222 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 95.087 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 41.28 Mbit/s

95th percentile per-packet one-way delay: 97.930 ms

Loss rate: 0.95%

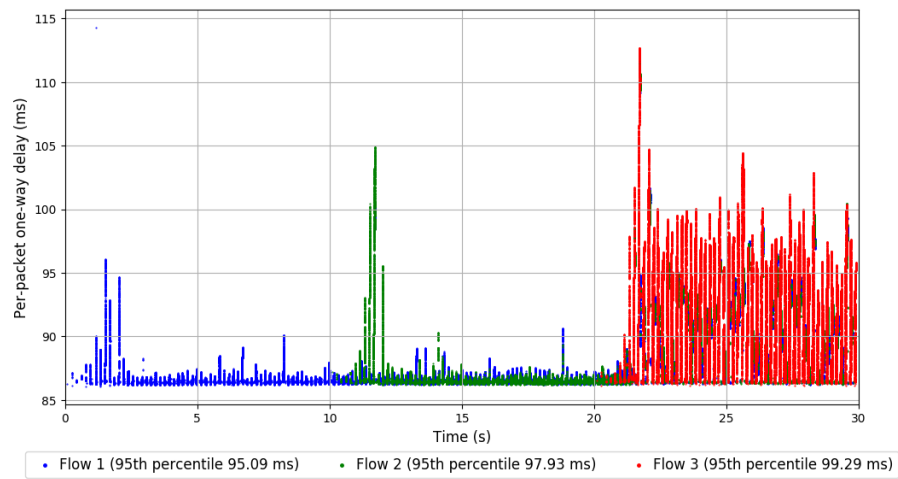
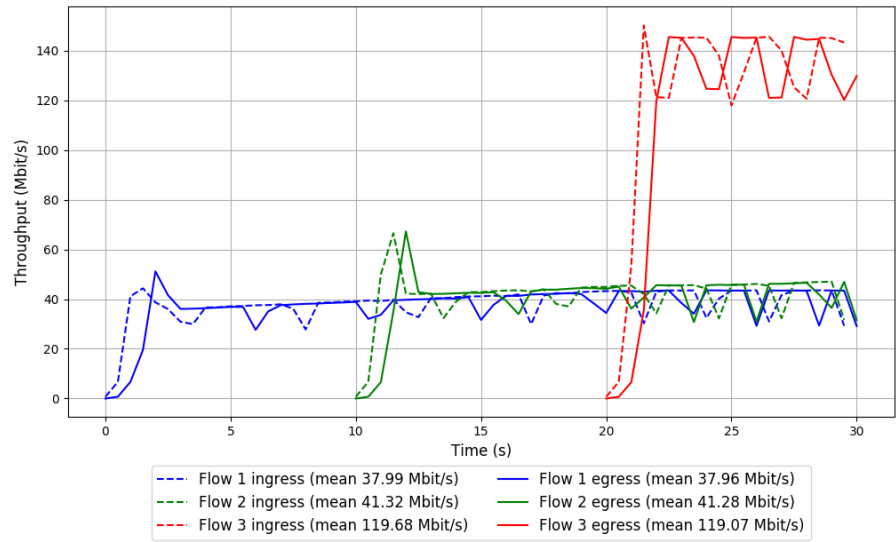
-- Flow 3:

Average throughput: 119.07 Mbit/s

95th percentile per-packet one-way delay: 99.292 ms

Loss rate: 2.23%

Run 10: Report of TCP Vegas — Data Link

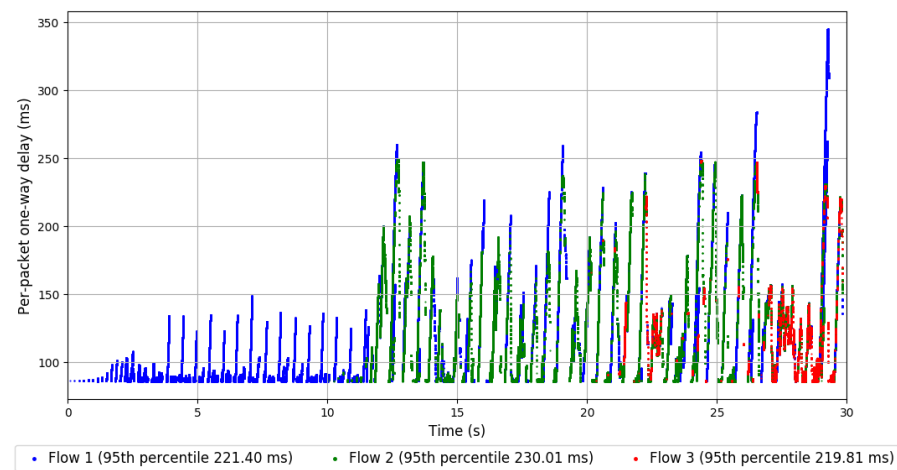
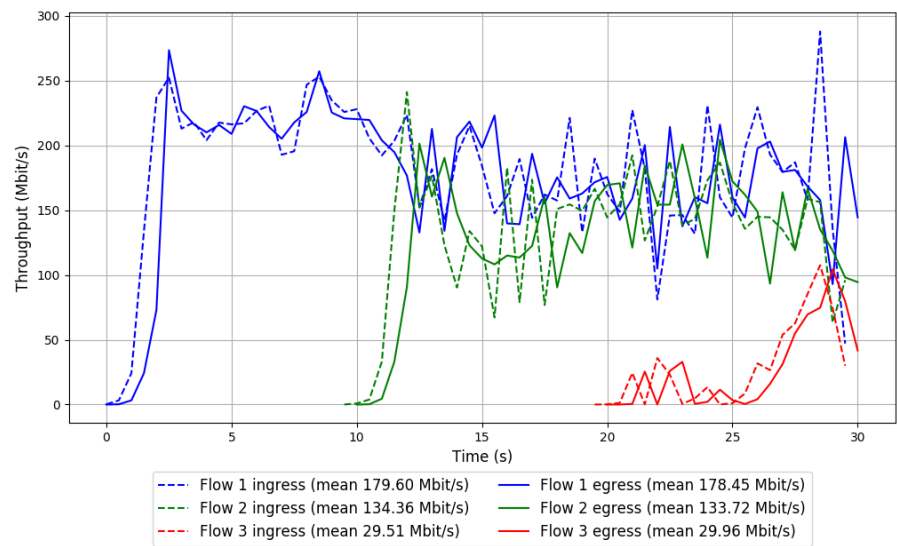


Run 1: Statistics of Verus

Start at: 2018-06-18 23:48:33
End at: 2018-06-18 23:49:03
Local clock offset: 0.096 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-06-19 05:11:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.05 Mbit/s
95th percentile per-packet one-way delay: 224.191 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 178.45 Mbit/s
95th percentile per-packet one-way delay: 221.402 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 133.72 Mbit/s
95th percentile per-packet one-way delay: 230.008 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 219.813 ms
Loss rate: 1.06%

Run 1: Report of Verus — Data Link

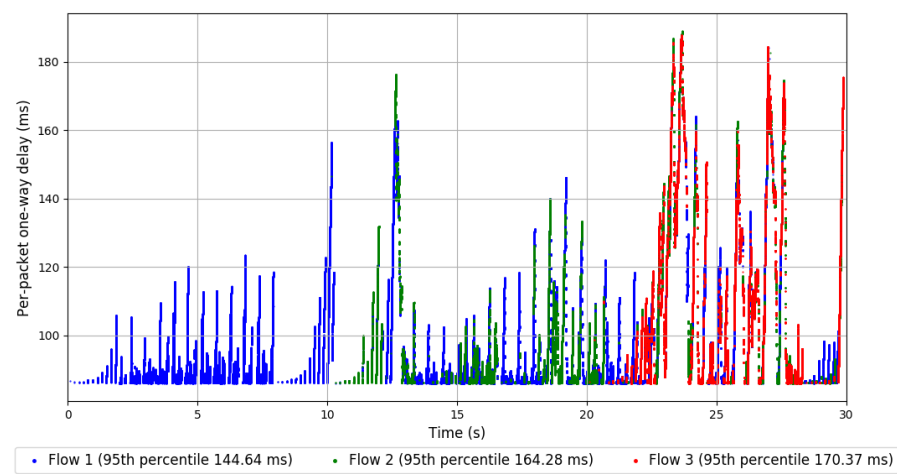
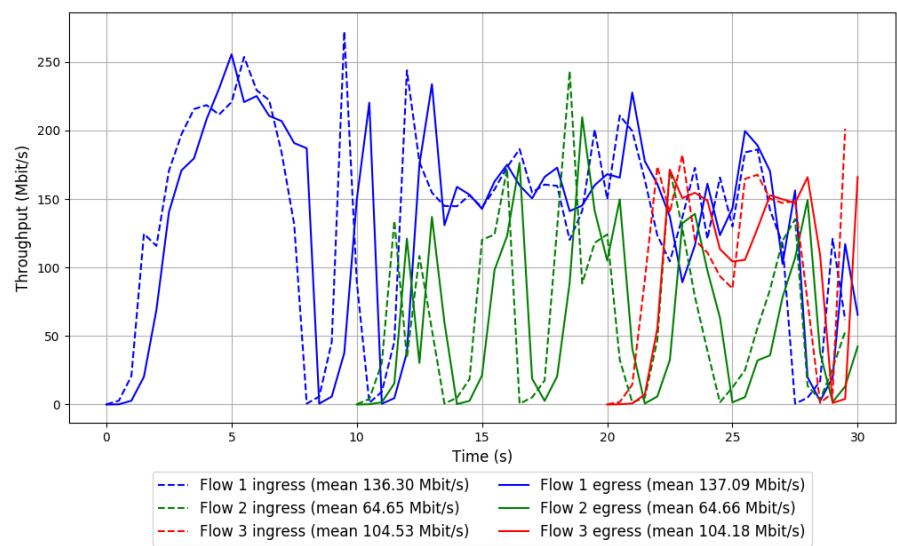


Run 2: Statistics of Verus

Start at: 2018-06-19 00:11:45
End at: 2018-06-19 00:12:15
Local clock offset: 0.004 ms
Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-06-19 05:11:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.10 Mbit/s
95th percentile per-packet one-way delay: 156.874 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 137.09 Mbit/s
95th percentile per-packet one-way delay: 144.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.66 Mbit/s
95th percentile per-packet one-way delay: 164.279 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 104.18 Mbit/s
95th percentile per-packet one-way delay: 170.374 ms
Loss rate: 1.91%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-19 00:34:47

End at: 2018-06-19 00:35:17

Local clock offset: -0.01 ms

Remote clock offset: 0.719 ms

Below is generated by plot.py at 2018-06-19 05:12:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.45 Mbit/s

95th percentile per-packet one-way delay: 174.147 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 211.98 Mbit/s

95th percentile per-packet one-way delay: 177.405 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 148.884 ms

Loss rate: 2.83%

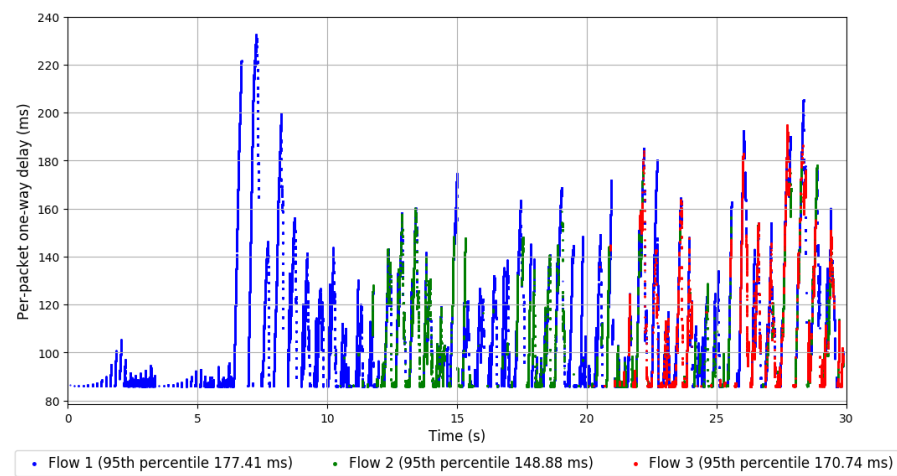
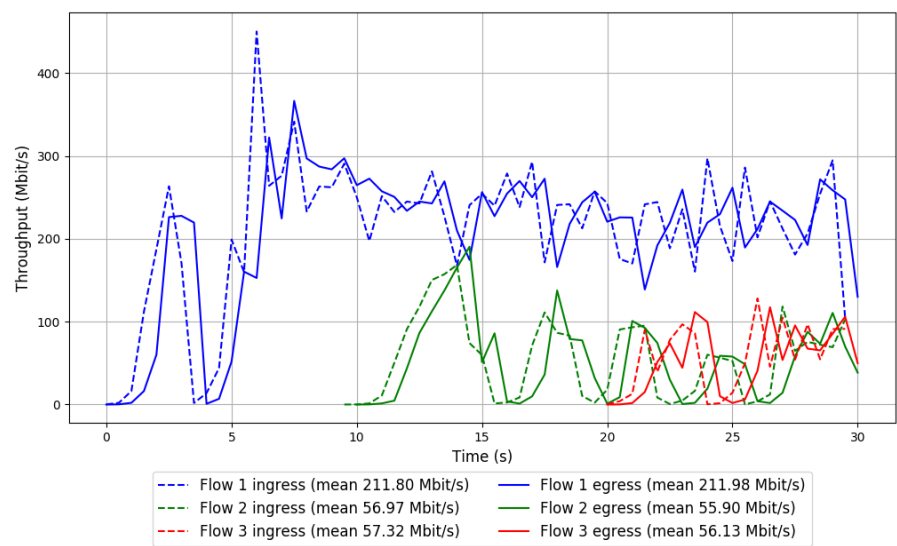
-- Flow 3:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 170.741 ms

Loss rate: 3.74%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-19 00:57:55

End at: 2018-06-19 00:58:25

Local clock offset: -0.057 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2018-06-19 05:12:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.60 Mbit/s

95th percentile per-packet one-way delay: 210.540 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 209.44 Mbit/s

95th percentile per-packet one-way delay: 210.171 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 207.211 ms

Loss rate: 0.88%

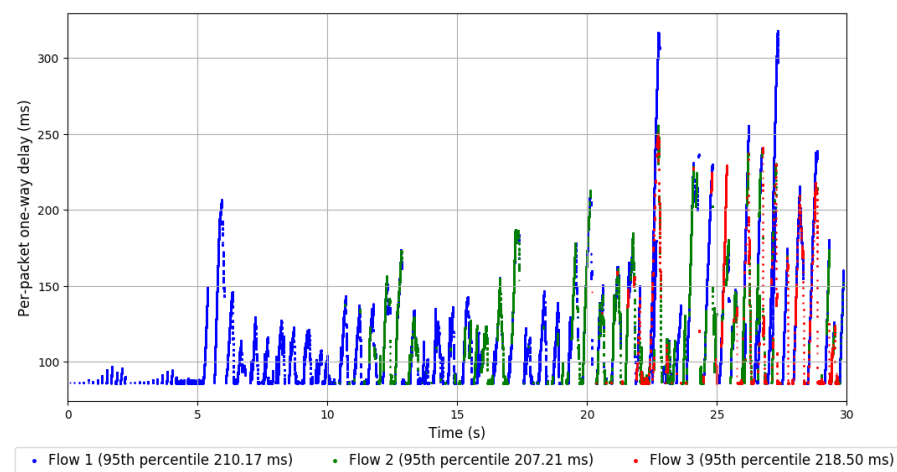
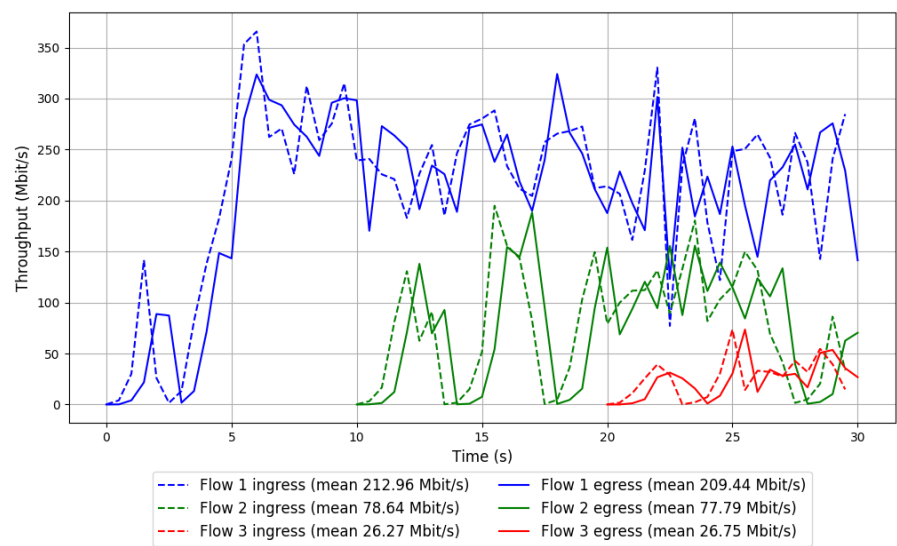
-- Flow 3:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 218.502 ms

Loss rate: 0.58%

Run 4: Report of Verus — Data Link

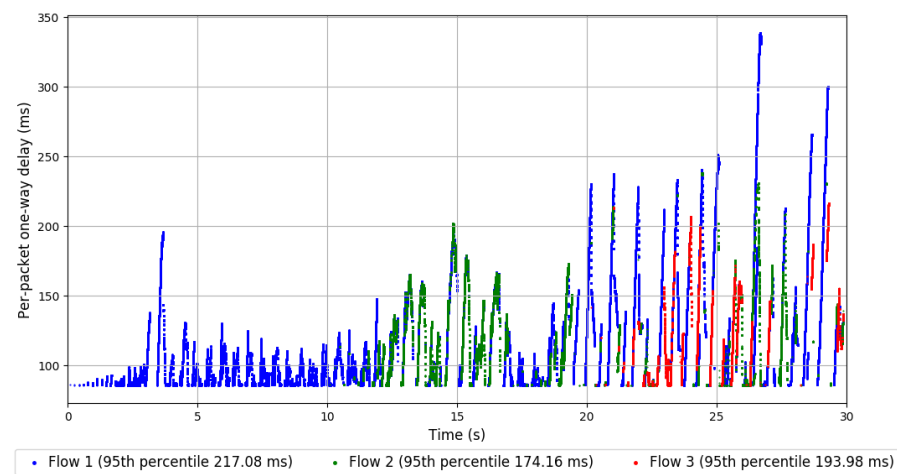
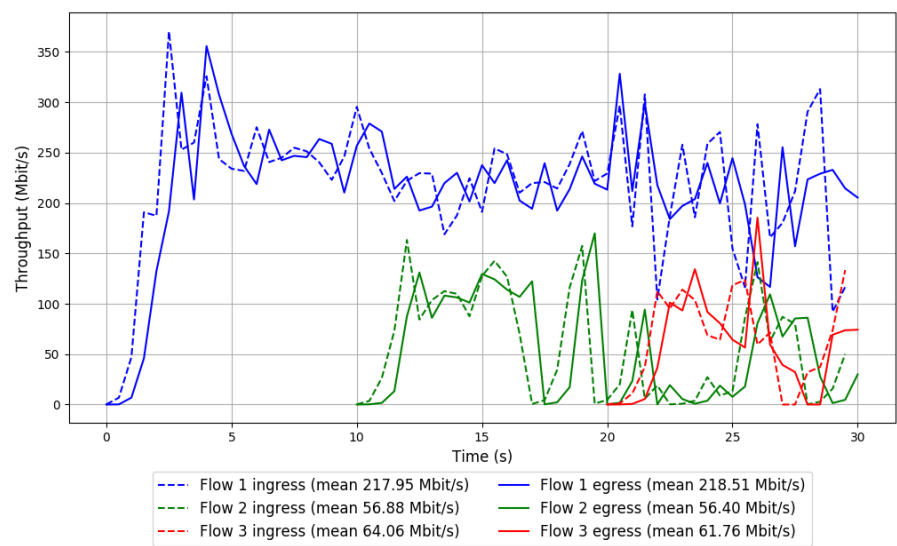


Run 5: Statistics of Verus

Start at: 2018-06-19 01:21:17
End at: 2018-06-19 01:21:47
Local clock offset: -0.106 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-19 05:12:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 276.01 Mbit/s
95th percentile per-packet one-way delay: 208.117 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 218.51 Mbit/s
95th percentile per-packet one-way delay: 217.083 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 56.40 Mbit/s
95th percentile per-packet one-way delay: 174.160 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 61.76 Mbit/s
95th percentile per-packet one-way delay: 193.982 ms
Loss rate: 4.70%

Run 5: Report of Verus — Data Link

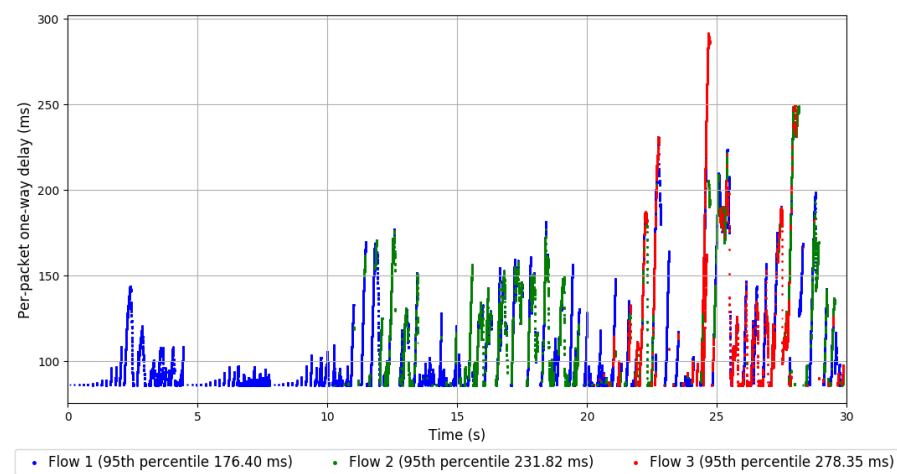
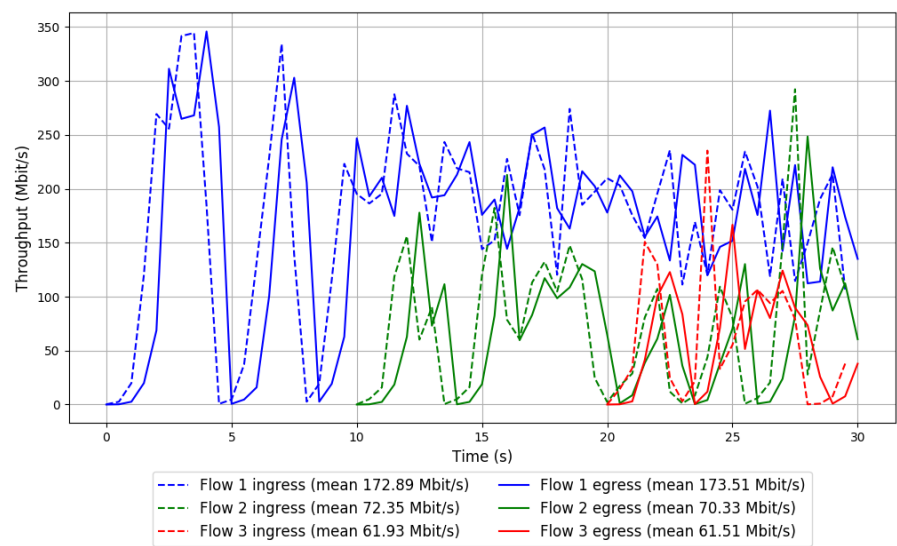


Run 6: Statistics of Verus

Start at: 2018-06-19 01:44:33
End at: 2018-06-19 01:45:03
Local clock offset: -0.027 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-19 05:12:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.29 Mbit/s
95th percentile per-packet one-way delay: 191.984 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 173.51 Mbit/s
95th percentile per-packet one-way delay: 176.398 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 70.33 Mbit/s
95th percentile per-packet one-way delay: 231.822 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 61.51 Mbit/s
95th percentile per-packet one-way delay: 278.350 ms
Loss rate: 2.50%

Run 6: Report of Verus — Data Link

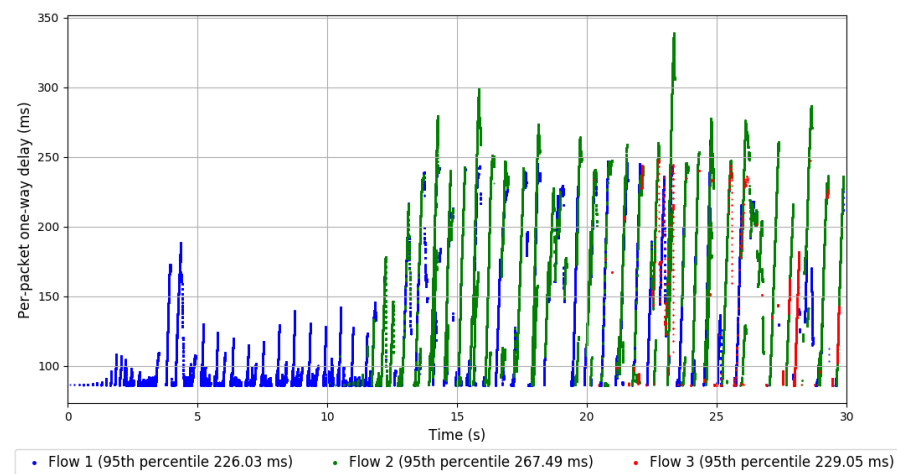
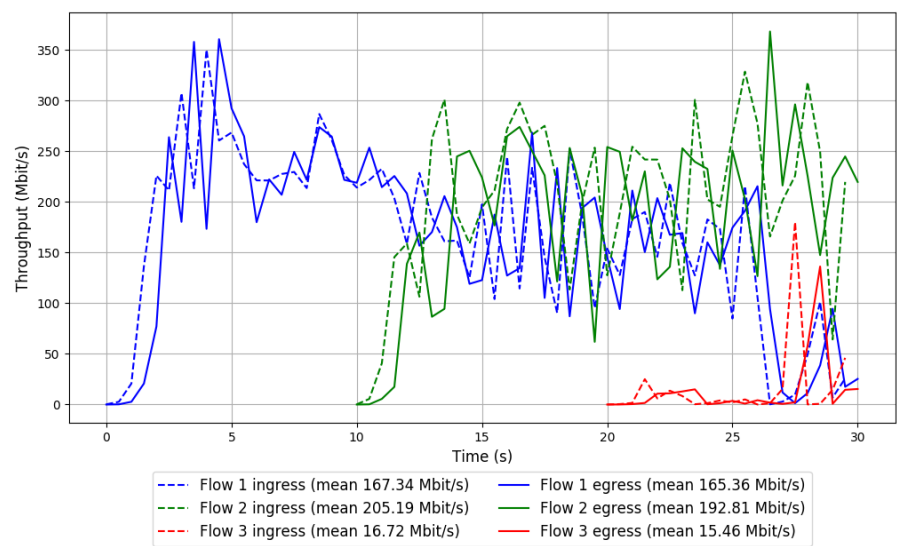


Run 7: Statistics of Verus

Start at: 2018-06-19 02:07:45
End at: 2018-06-19 02:08:15
Local clock offset: 0.0 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-19 05:13:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 298.21 Mbit/s
95th percentile per-packet one-way delay: 250.548 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 165.36 Mbit/s
95th percentile per-packet one-way delay: 226.033 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 192.81 Mbit/s
95th percentile per-packet one-way delay: 267.491 ms
Loss rate: 5.32%
-- Flow 3:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 229.051 ms
Loss rate: 10.59%

Run 7: Report of Verus — Data Link

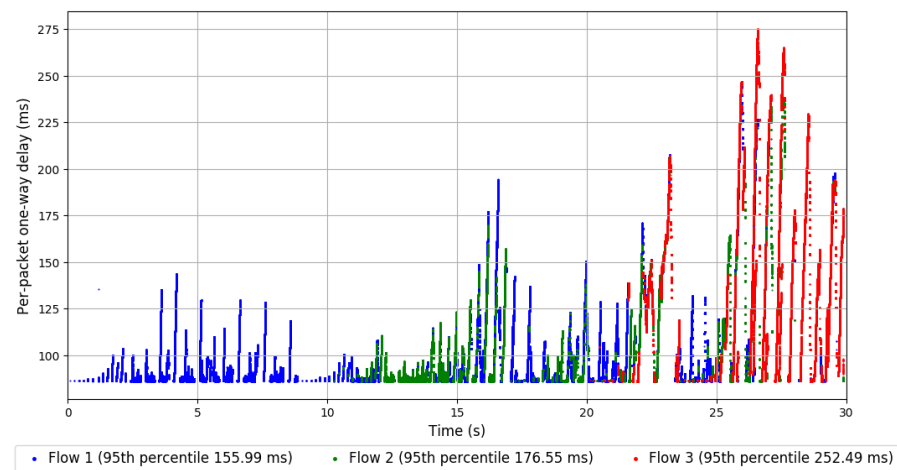
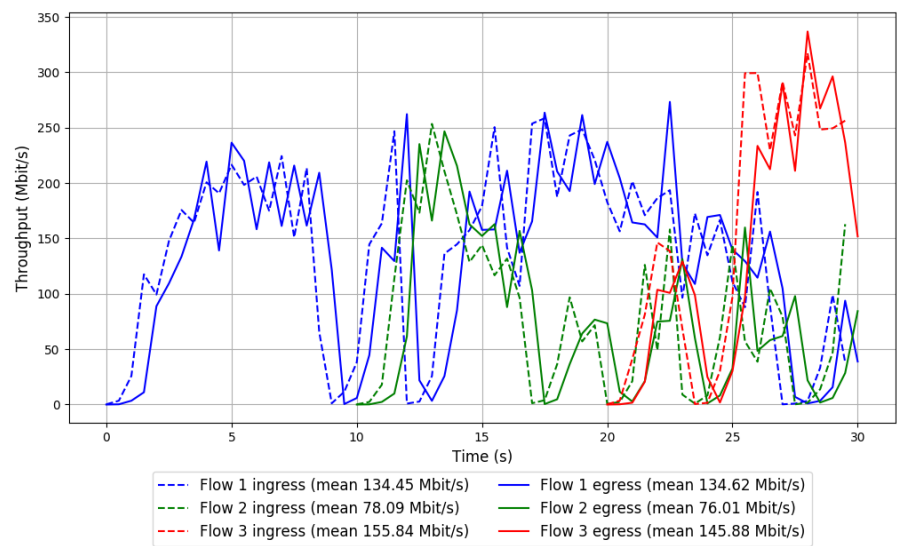


Run 8: Statistics of Verus

Start at: 2018-06-19 02:30:50
End at: 2018-06-19 02:31:20
Local clock offset: -0.043 ms
Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-06-19 05:13:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 232.84 Mbit/s
95th percentile per-packet one-way delay: 202.571 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 134.62 Mbit/s
95th percentile per-packet one-way delay: 155.992 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 76.01 Mbit/s
95th percentile per-packet one-way delay: 176.550 ms
Loss rate: 3.51%
-- Flow 3:
Average throughput: 145.88 Mbit/s
95th percentile per-packet one-way delay: 252.491 ms
Loss rate: 6.49%

Run 8: Report of Verus — Data Link

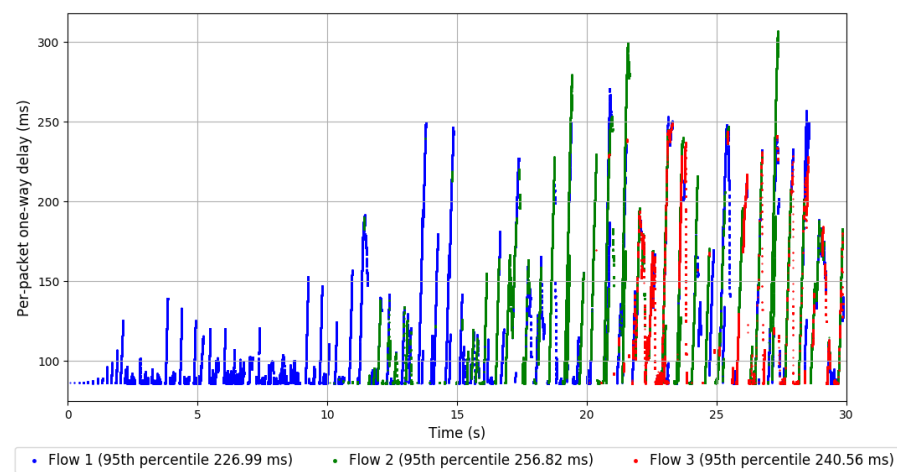
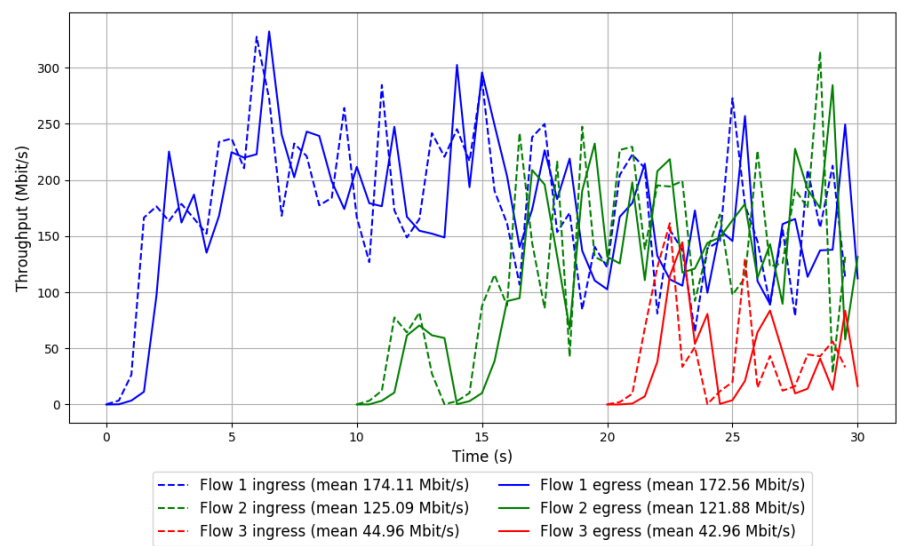


Run 9: Statistics of Verus

Start at: 2018-06-19 02:53:54
End at: 2018-06-19 02:54:24
Local clock offset: -0.05 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 05:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.46 Mbit/s
95th percentile per-packet one-way delay: 237.223 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 172.56 Mbit/s
95th percentile per-packet one-way delay: 226.994 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 121.88 Mbit/s
95th percentile per-packet one-way delay: 256.819 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 240.565 ms
Loss rate: 4.14%

Run 9: Report of Verus — Data Link

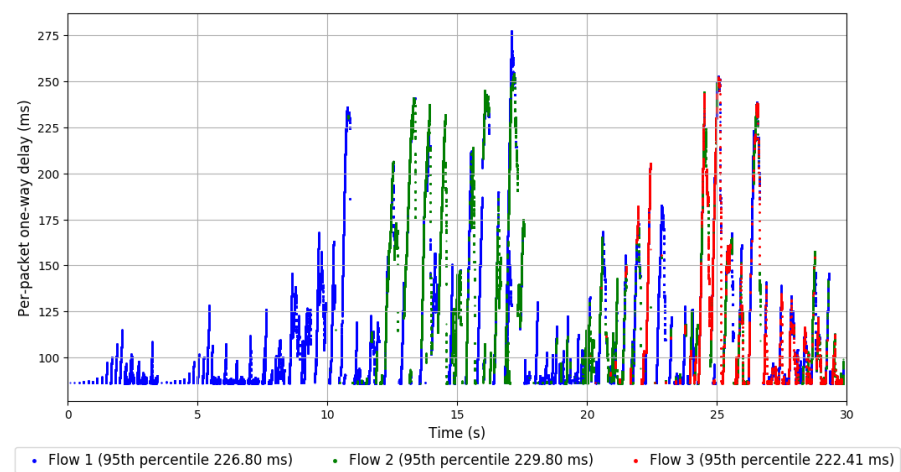
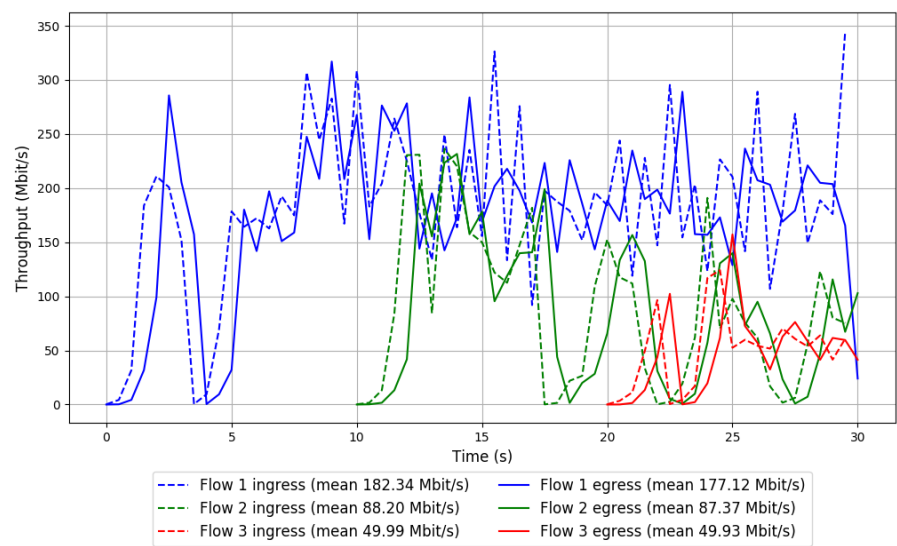


Run 10: Statistics of Verus

Start at: 2018-06-19 03:17:03
End at: 2018-06-19 03:17:33
Local clock offset: -0.006 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-19 05:15:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.31 Mbit/s
95th percentile per-packet one-way delay: 228.019 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 177.12 Mbit/s
95th percentile per-packet one-way delay: 226.802 ms
Loss rate: 3.43%
-- Flow 2:
Average throughput: 87.37 Mbit/s
95th percentile per-packet one-way delay: 229.799 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 222.408 ms
Loss rate: 2.84%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 23:54:00

End at: 2018-06-18 23:54:30

Local clock offset: 0.036 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-19 05:20:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.25 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 292.05 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 214.91 Mbit/s

95th percentile per-packet one-way delay: 87.535 ms

Loss rate: 0.91%

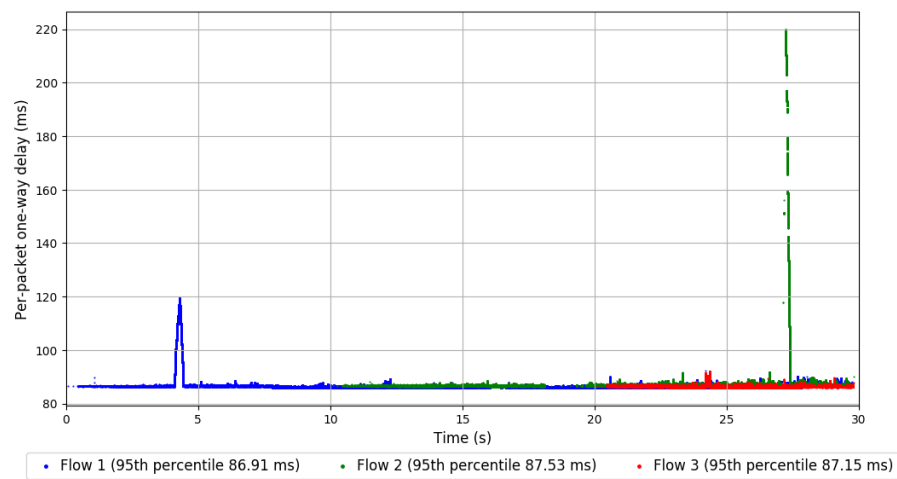
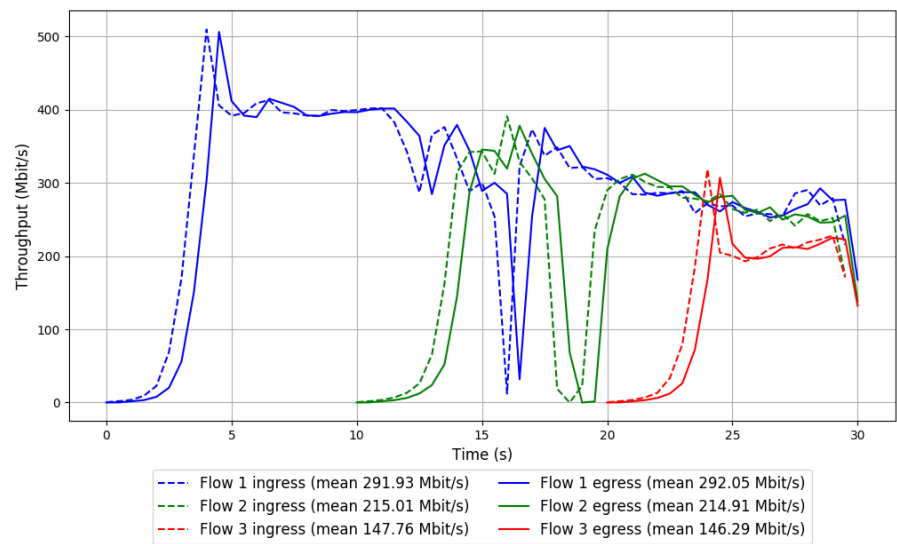
-- Flow 3:

Average throughput: 146.29 Mbit/s

95th percentile per-packet one-way delay: 87.147 ms

Loss rate: 2.73%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 00:17:08

End at: 2018-06-19 00:17:38

Local clock offset: 0.094 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-06-19 05:20:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.57 Mbit/s

95th percentile per-packet one-way delay: 87.299 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 223.76 Mbit/s

95th percentile per-packet one-way delay: 86.583 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 199.26 Mbit/s

95th percentile per-packet one-way delay: 87.789 ms

Loss rate: 1.04%

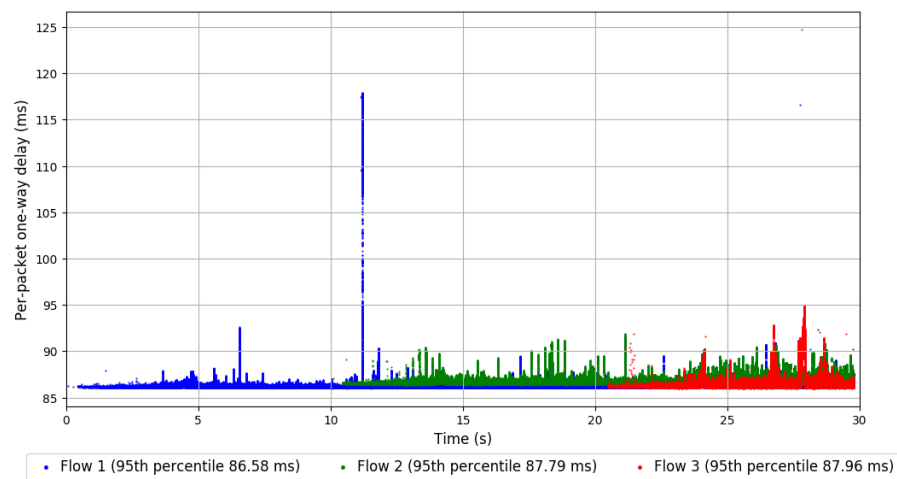
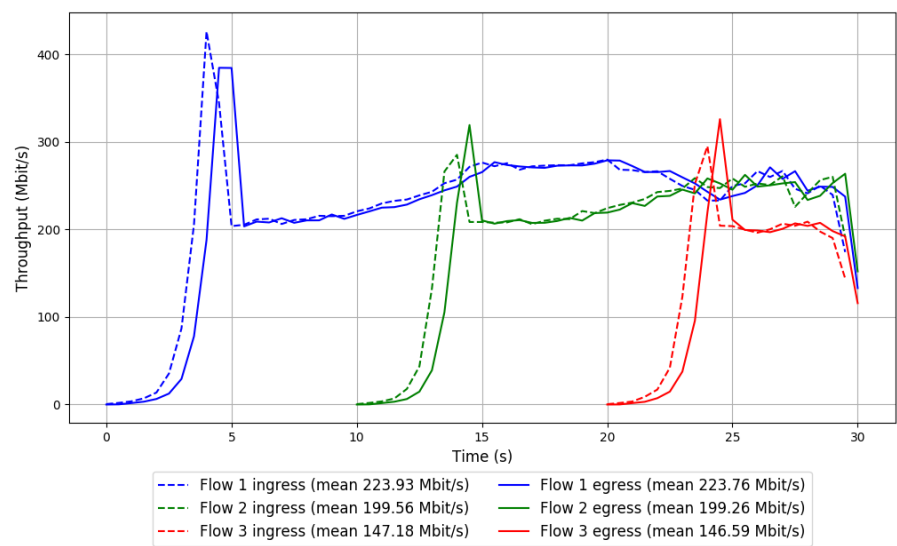
-- Flow 3:

Average throughput: 146.59 Mbit/s

95th percentile per-packet one-way delay: 87.963 ms

Loss rate: 2.15%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 00:40:09

End at: 2018-06-19 00:40:39

Local clock offset: 0.032 ms

Remote clock offset: 0.769 ms

Below is generated by plot.py at 2018-06-19 05:21:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.33 Mbit/s

95th percentile per-packet one-way delay: 89.341 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 286.84 Mbit/s

95th percentile per-packet one-way delay: 87.252 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 252.40 Mbit/s

95th percentile per-packet one-way delay: 102.105 ms

Loss rate: 0.77%

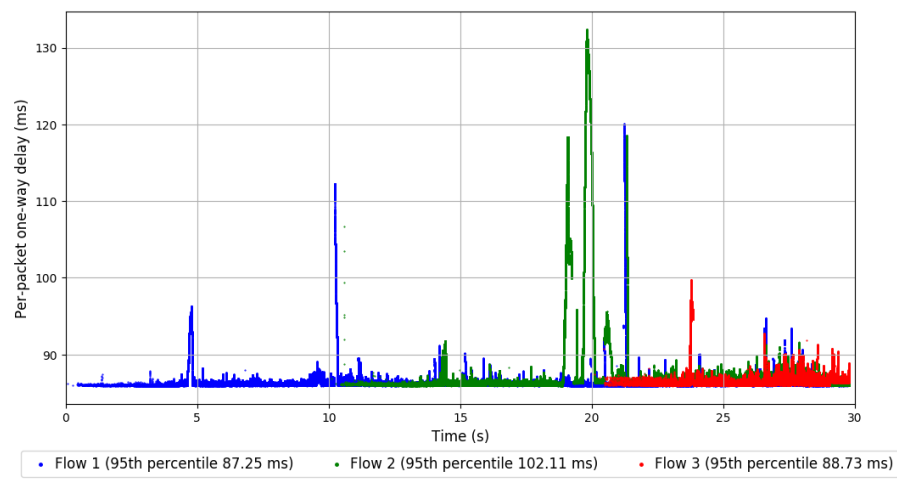
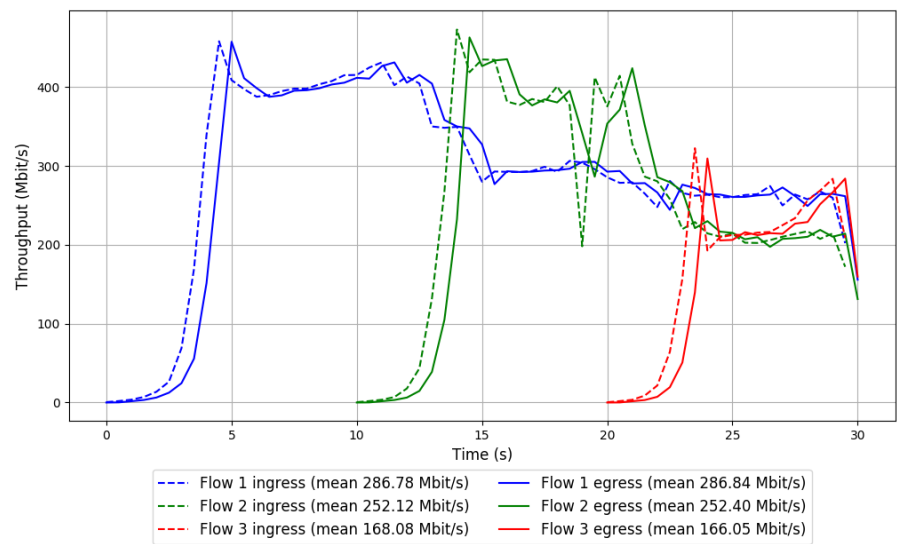
-- Flow 3:

Average throughput: 166.05 Mbit/s

95th percentile per-packet one-way delay: 88.731 ms

Loss rate: 2.95%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 01:03:32

End at: 2018-06-19 01:04:02

Local clock offset: -0.163 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-06-19 05:21:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 448.35 Mbit/s

95th percentile per-packet one-way delay: 88.576 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 226.80 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 263.09 Mbit/s

95th percentile per-packet one-way delay: 138.006 ms

Loss rate: 0.97%

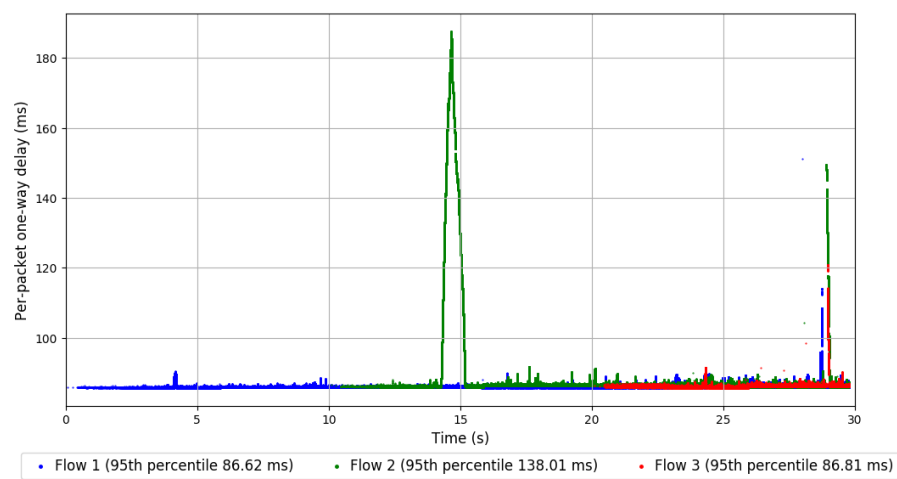
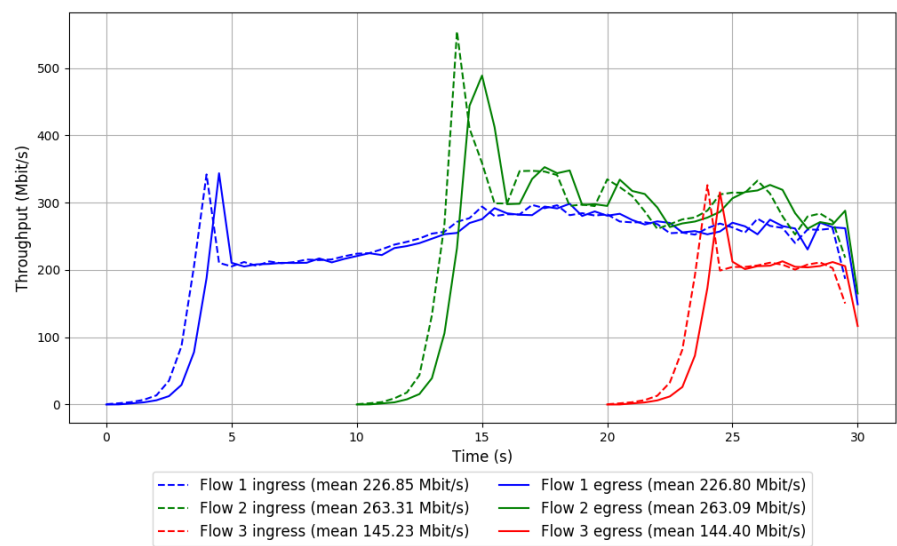
-- Flow 3:

Average throughput: 144.40 Mbit/s

95th percentile per-packet one-way delay: 86.811 ms

Loss rate: 2.32%

Run 4: Report of PCC-Vivace — Data Link

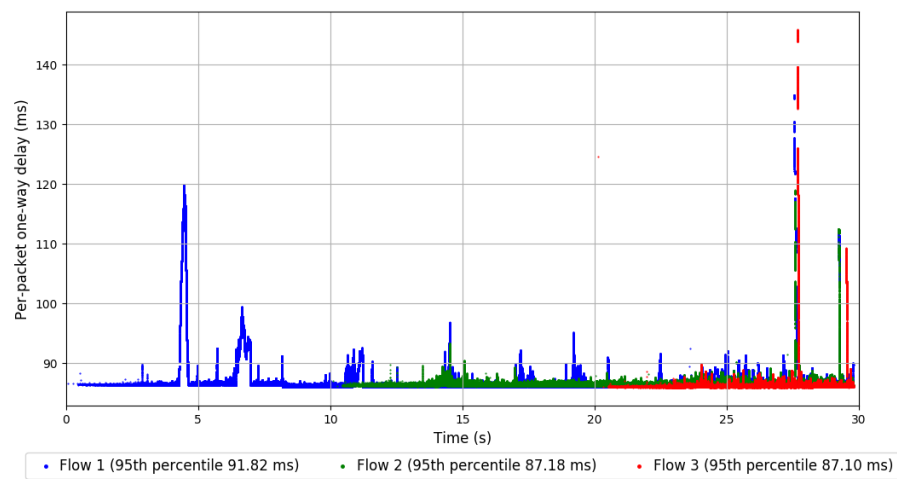
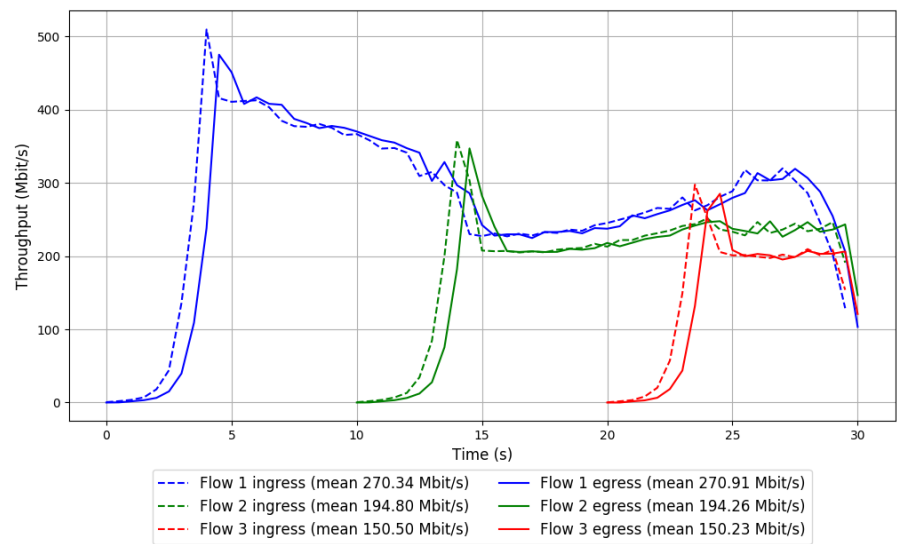


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 01:26:49
End at: 2018-06-19 01:27:19
Local clock offset: -0.005 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-19 05:21:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 448.47 Mbit/s
95th percentile per-packet one-way delay: 89.334 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 270.91 Mbit/s
95th percentile per-packet one-way delay: 91.824 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 194.26 Mbit/s
95th percentile per-packet one-way delay: 87.177 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 150.23 Mbit/s
95th percentile per-packet one-way delay: 87.100 ms
Loss rate: 2.32%

Run 5: Report of PCC-Vivace — Data Link

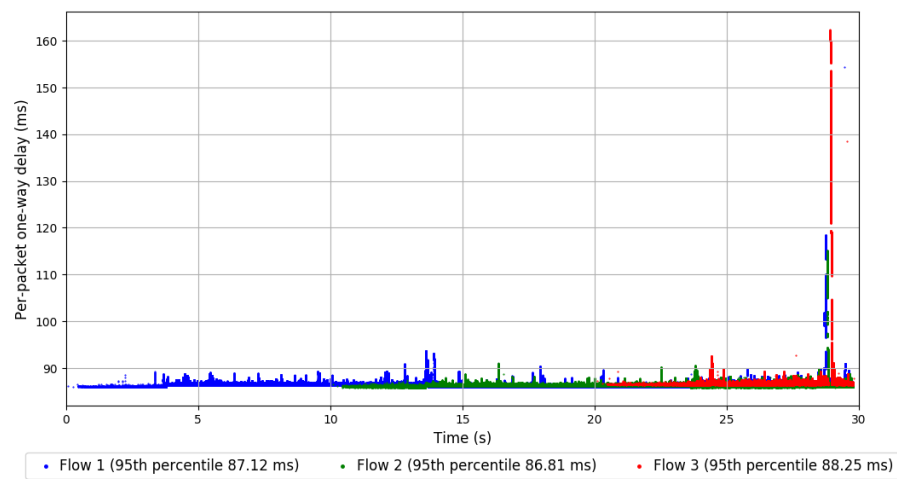
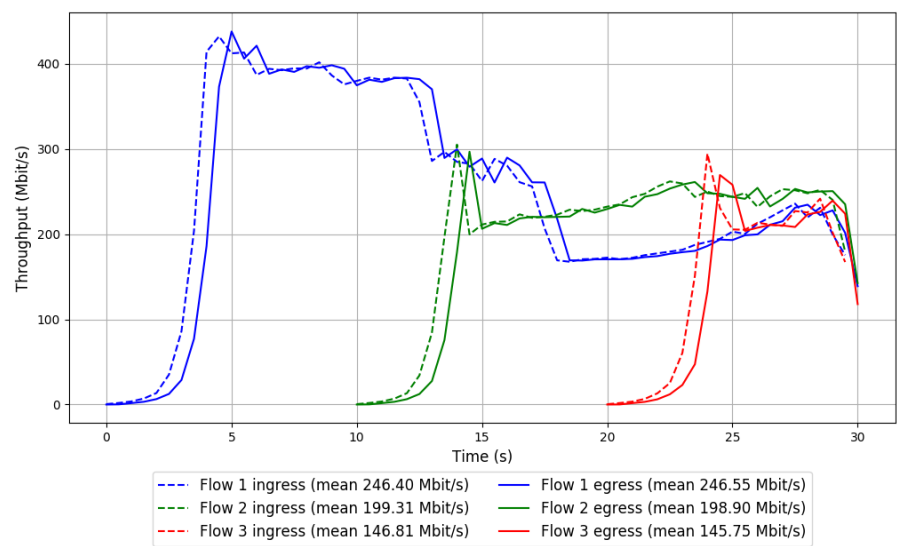


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 01:50:04
End at: 2018-06-19 01:50:34
Local clock offset: 0.086 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-06-19 05:21:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 425.95 Mbit/s
95th percentile per-packet one-way delay: 87.148 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 246.55 Mbit/s
95th percentile per-packet one-way delay: 87.122 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 198.90 Mbit/s
95th percentile per-packet one-way delay: 86.806 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 145.75 Mbit/s
95th percentile per-packet one-way delay: 88.254 ms
Loss rate: 2.46%

Run 6: Report of PCC-Vivace — Data Link

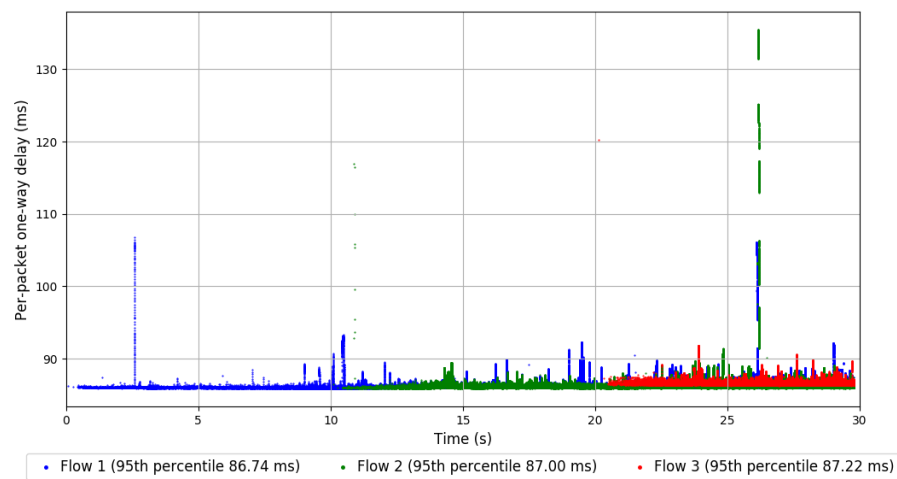
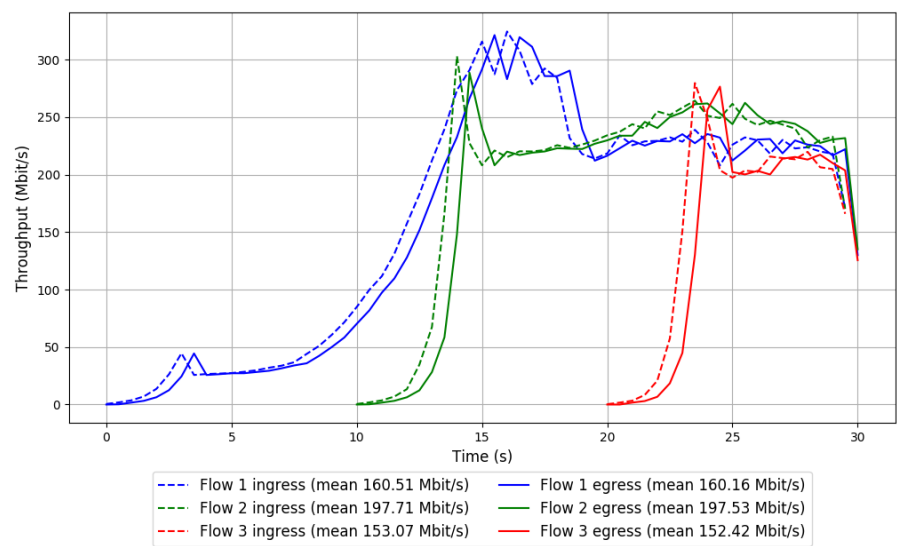


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 02:13:17
End at: 2018-06-19 02:13:47
Local clock offset: 0.04 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2018-06-19 05:21:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.66 Mbit/s
95th percentile per-packet one-way delay: 86.974 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 160.16 Mbit/s
95th percentile per-packet one-way delay: 86.744 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 197.53 Mbit/s
95th percentile per-packet one-way delay: 87.002 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 152.42 Mbit/s
95th percentile per-packet one-way delay: 87.220 ms
Loss rate: 2.52%

Run 7: Report of PCC-Vivace — Data Link

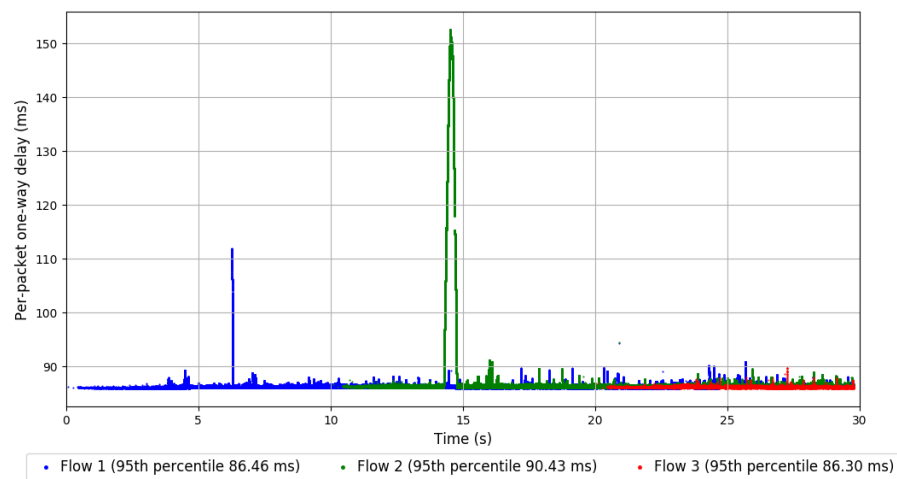
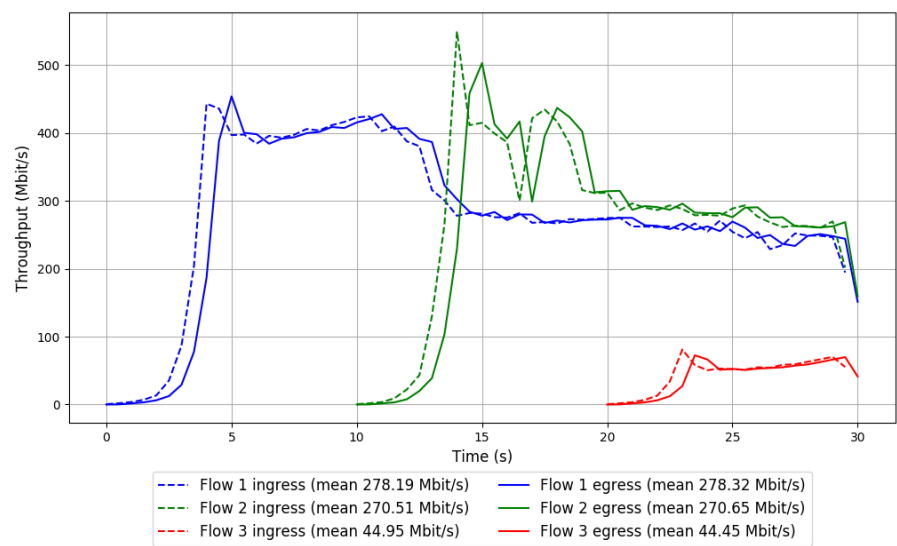


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 02:36:13
End at: 2018-06-19 02:36:43
Local clock offset: 0.029 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-19 05:22:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 472.31 Mbit/s
95th percentile per-packet one-way delay: 86.790 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 278.32 Mbit/s
95th percentile per-packet one-way delay: 86.463 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 270.65 Mbit/s
95th percentile per-packet one-way delay: 90.429 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 44.45 Mbit/s
95th percentile per-packet one-way delay: 86.296 ms
Loss rate: 2.93%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 02:59:18

End at: 2018-06-19 02:59:48

Local clock offset: 0.072 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-19 05:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.25 Mbit/s

95th percentile per-packet one-way delay: 86.883 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 267.87 Mbit/s

95th percentile per-packet one-way delay: 86.938 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 196.16 Mbit/s

95th percentile per-packet one-way delay: 86.705 ms

Loss rate: 0.84%

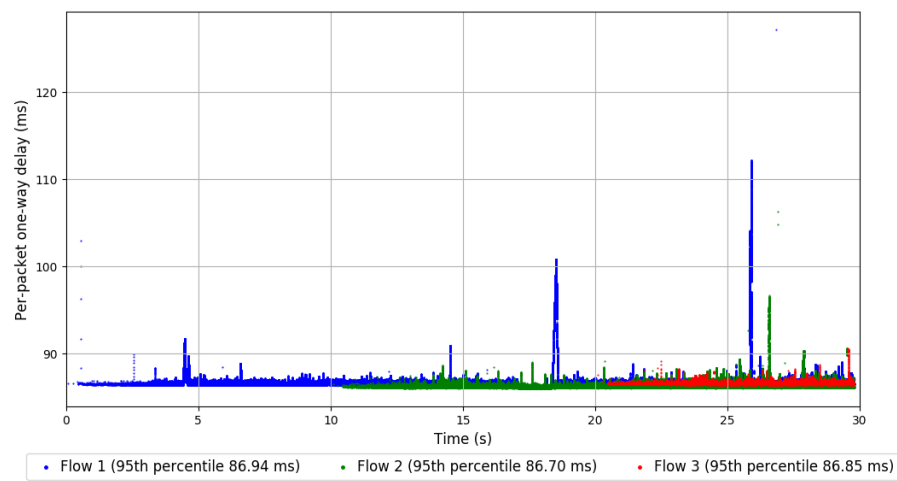
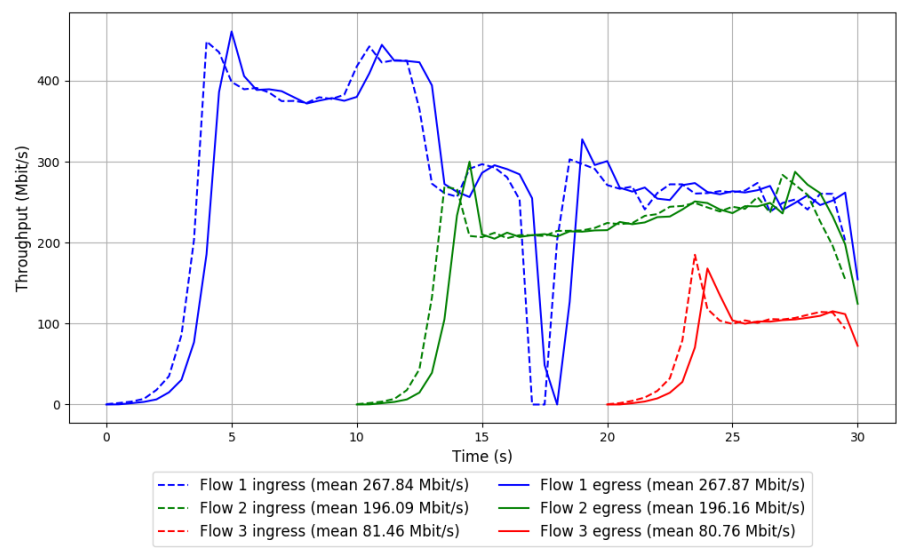
-- Flow 3:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 86.847 ms

Loss rate: 2.60%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 03:22:27

End at: 2018-06-19 03:22:57

Local clock offset: 0.1 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-19 05:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 456.43 Mbit/s

95th percentile per-packet one-way delay: 86.973 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 272.53 Mbit/s

95th percentile per-packet one-way delay: 86.825 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 205.00 Mbit/s

95th percentile per-packet one-way delay: 86.923 ms

Loss rate: 1.10%

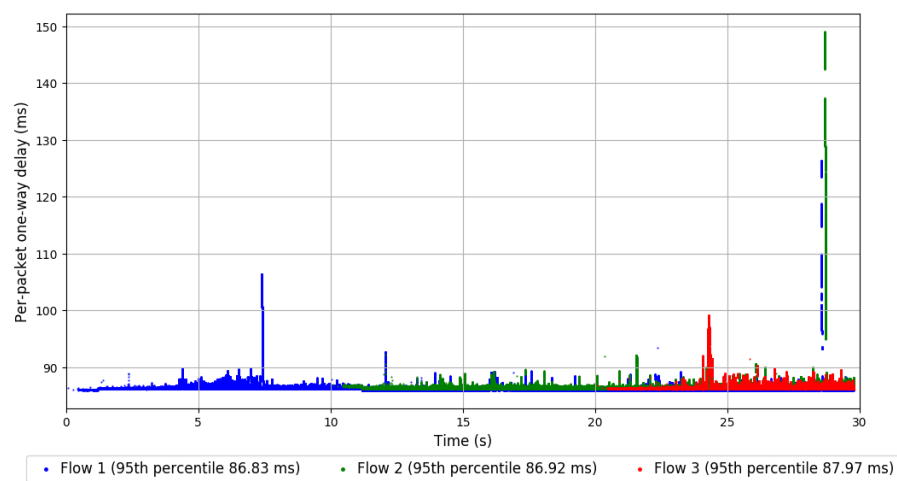
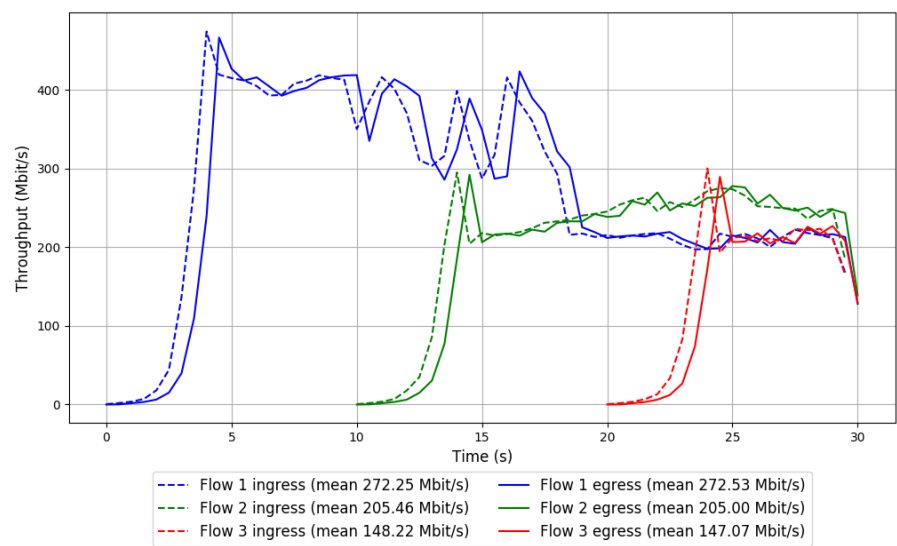
-- Flow 3:

Average throughput: 147.07 Mbit/s

95th percentile per-packet one-way delay: 87.970 ms

Loss rate: 2.52%

Run 10: Report of PCC-Vivace — Data Link

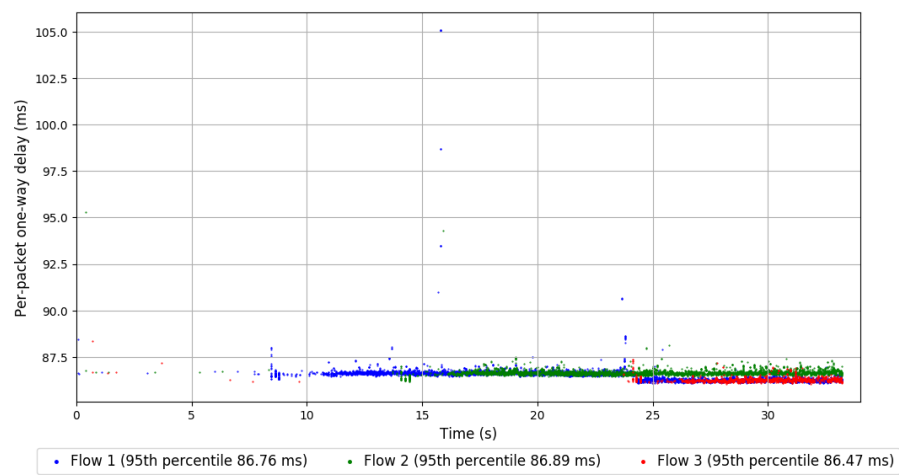
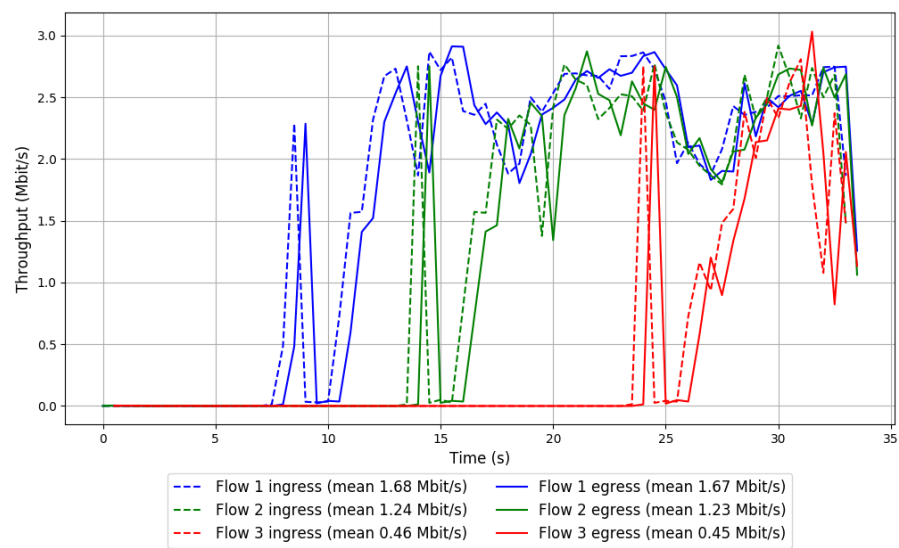


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-18 23:57:07
End at: 2018-06-18 23:57:37
Local clock offset: 0.072 ms
Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2018-06-19 05:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 86.811 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 86.763 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 86.888 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.465 ms
Loss rate: 3.12%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-19 00:20:13

End at: 2018-06-19 00:20:43

Local clock offset: -0.068 ms

Remote clock offset: 0.524 ms

Below is generated by plot.py at 2018-06-19 05:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 86.534 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.571 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 86.287 ms

Loss rate: 1.30%

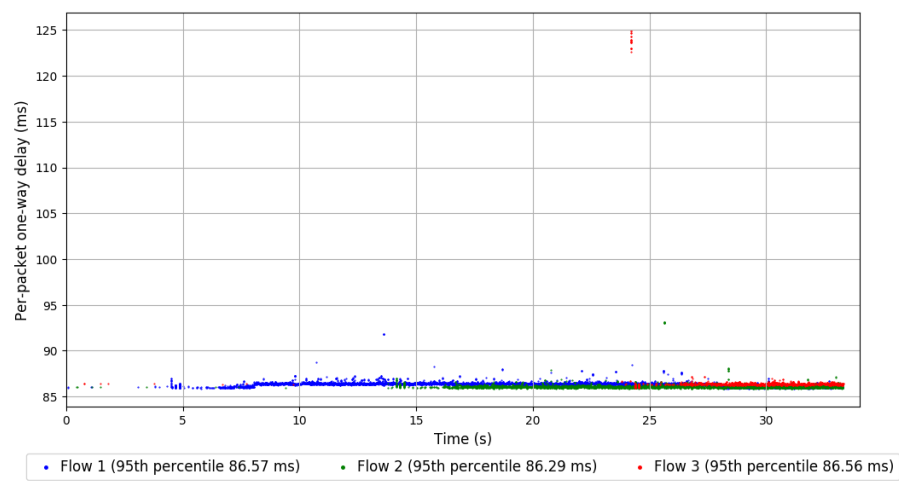
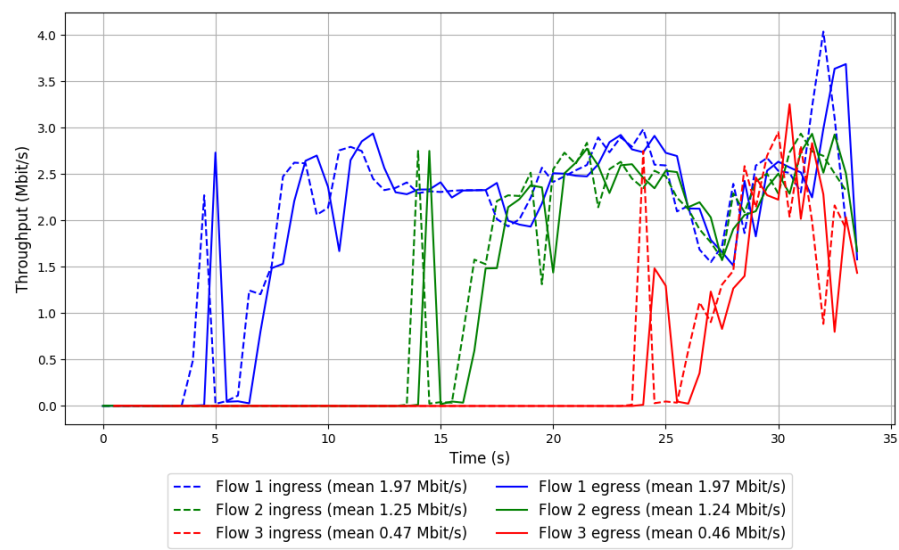
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.560 ms

Loss rate: 2.84%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 00:43:18

End at: 2018-06-19 00:43:48

Local clock offset: -0.08 ms

Remote clock offset: 0.813 ms

Below is generated by plot.py at 2018-06-19 05:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 86.274 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 86.370 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 86.187 ms

Loss rate: 1.03%

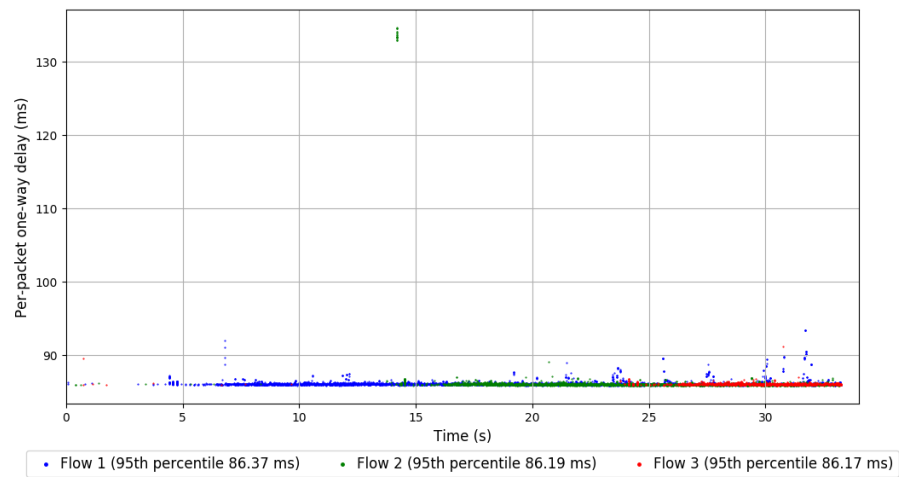
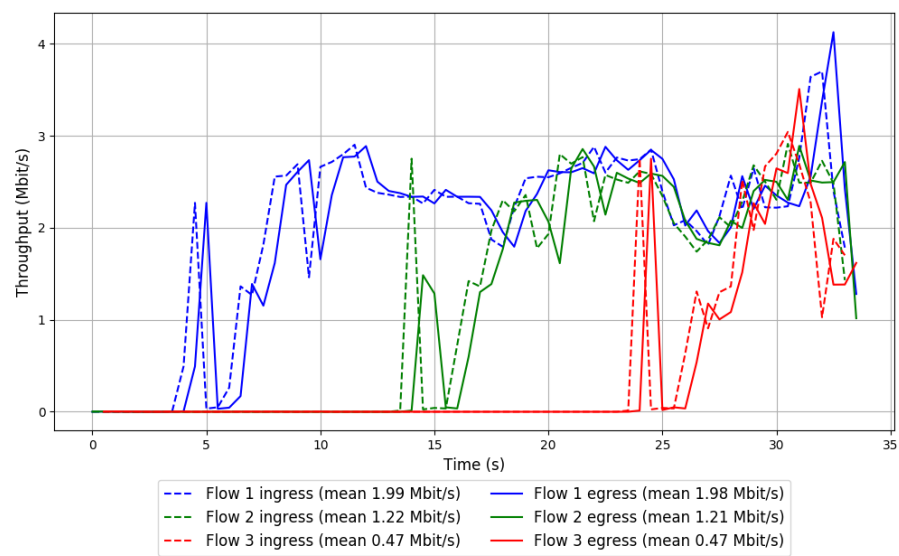
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.175 ms

Loss rate: 2.42%

Run 3: Report of WebRTC media — Data Link

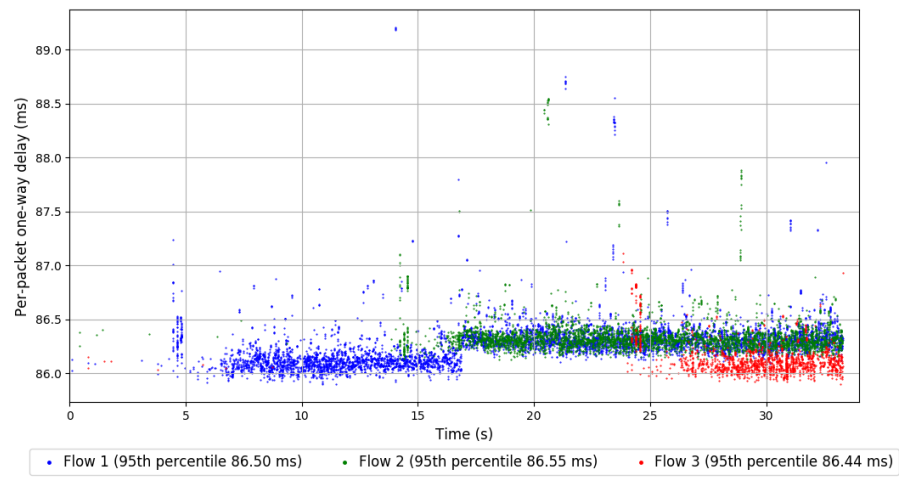
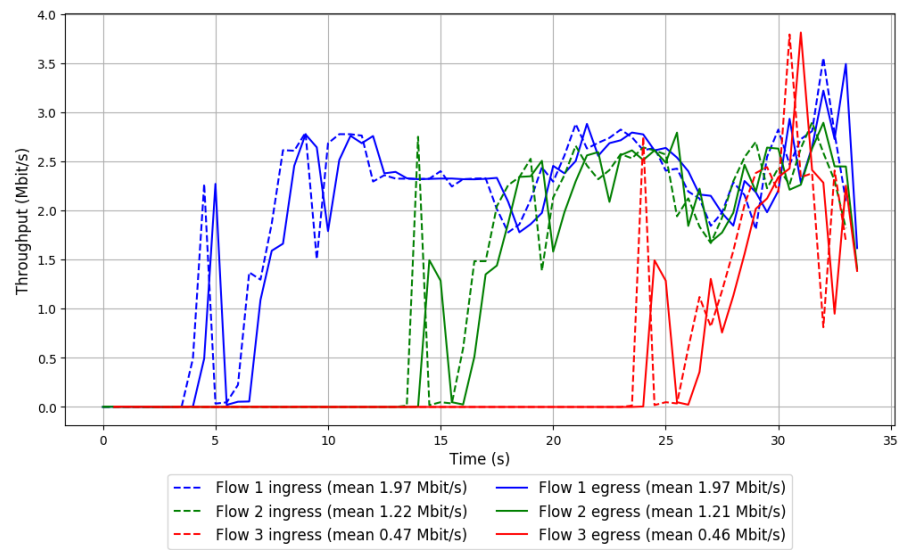


Run 4: Statistics of WebRTC media

Start at: 2018-06-19 01:06:44
End at: 2018-06-19 01:07:14
Local clock offset: -0.05 ms
Remote clock offset: 0.024 ms

```
# Below is generated by plot.py at 2018-06-19 05:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 86.506 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 86.497 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 86.545 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.439 ms
Loss rate: 2.28%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-19 01:29:59

End at: 2018-06-19 01:30:29

Local clock offset: -0.219 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-19 05:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 86.417 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 86.455 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 86.141 ms

Loss rate: 1.28%

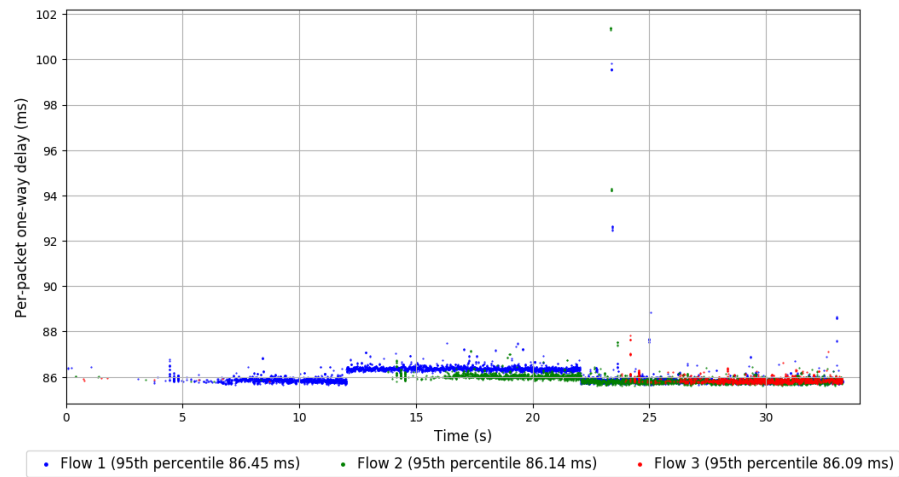
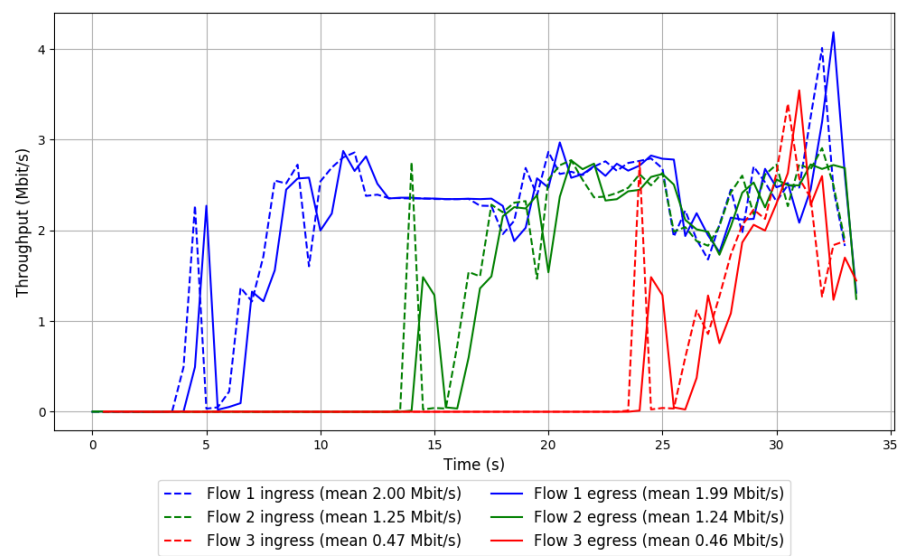
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.086 ms

Loss rate: 2.58%

Run 5: Report of WebRTC media — Data Link

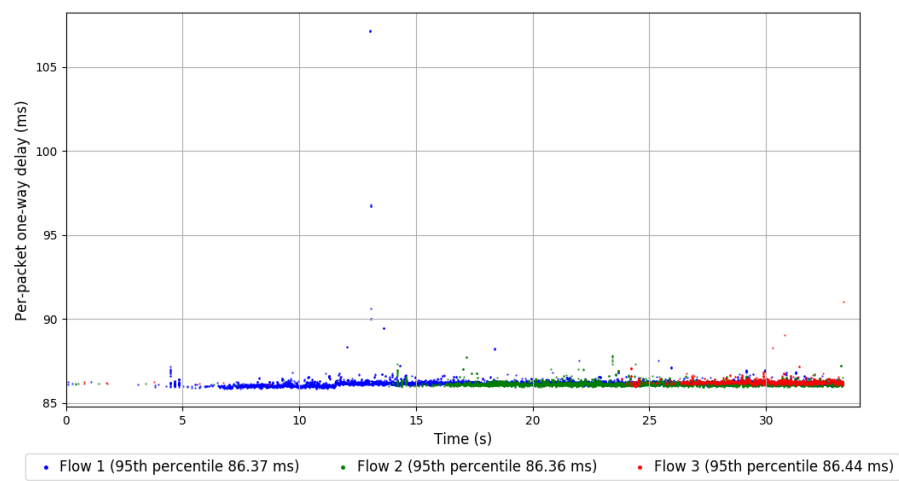
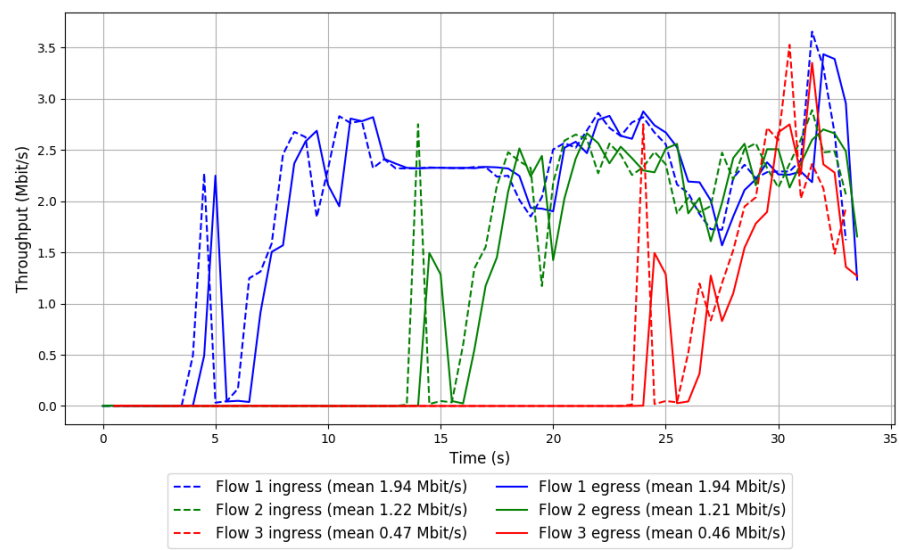


Run 6: Statistics of WebRTC media

Start at: 2018-06-19 01:53:10
End at: 2018-06-19 01:53:40
Local clock offset: 0.049 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-19 05:23:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 86.390 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 86.372 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 86.362 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.442 ms
Loss rate: 3.24%

Run 6: Report of WebRTC media — Data Link

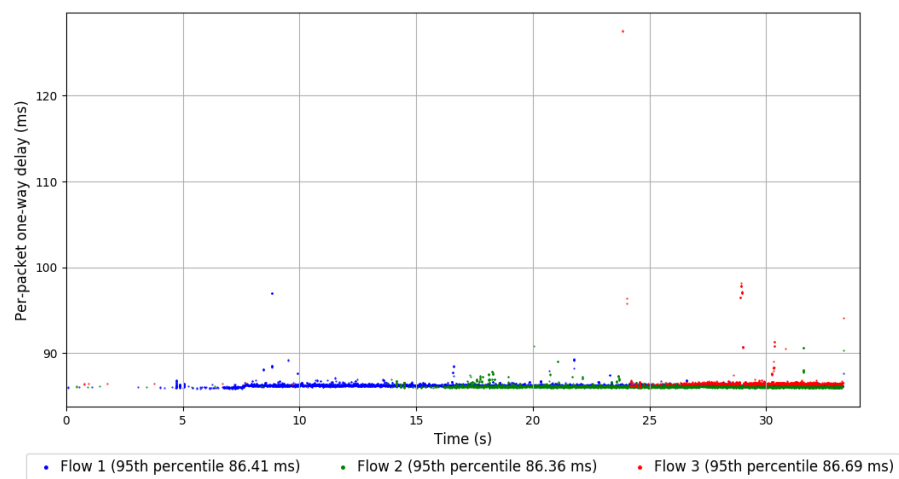
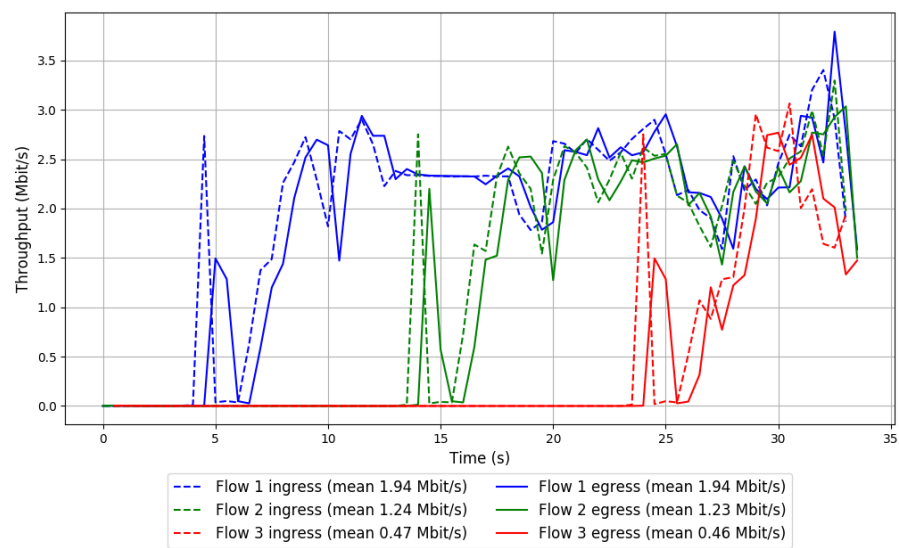


Run 7: Statistics of WebRTC media

Start at: 2018-06-19 02:16:14
End at: 2018-06-19 02:16:44
Local clock offset: -0.026 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-19 05:23:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 86.516 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 86.409 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 86.364 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 2.67%

Run 7: Report of WebRTC media — Data Link

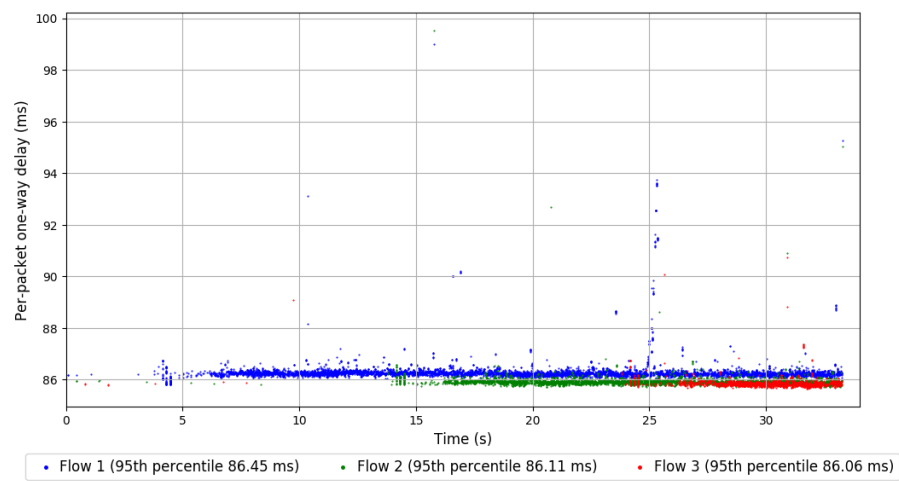
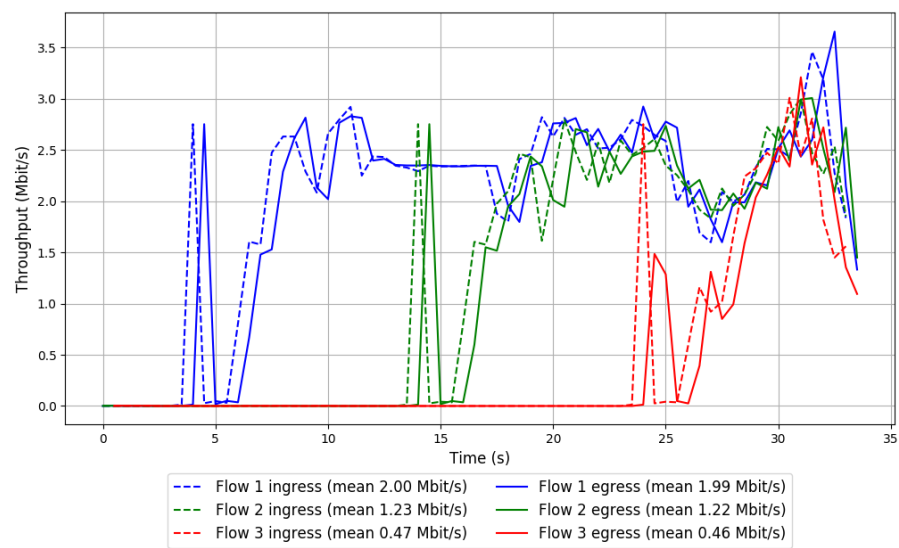


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 02:39:19
End at: 2018-06-19 02:39:49
Local clock offset: -0.193 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-19 05:23:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 86.384 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 86.453 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 86.109 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.063 ms
Loss rate: 2.62%

Run 8: Report of WebRTC media — Data Link

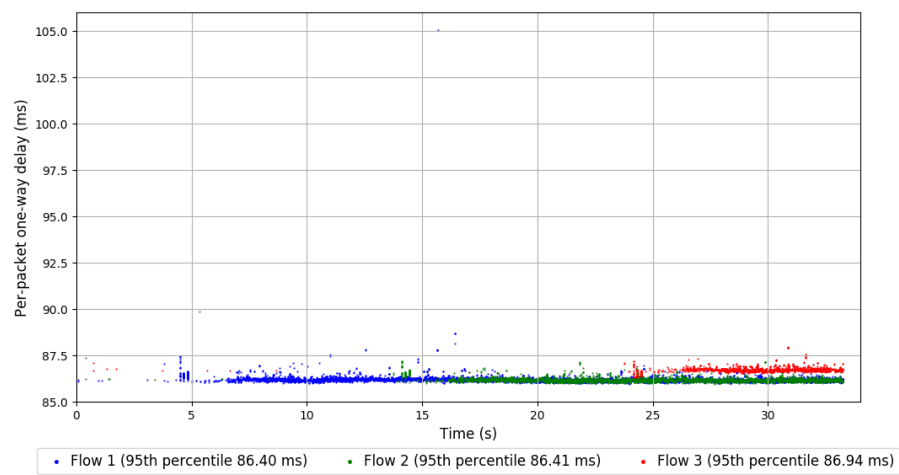
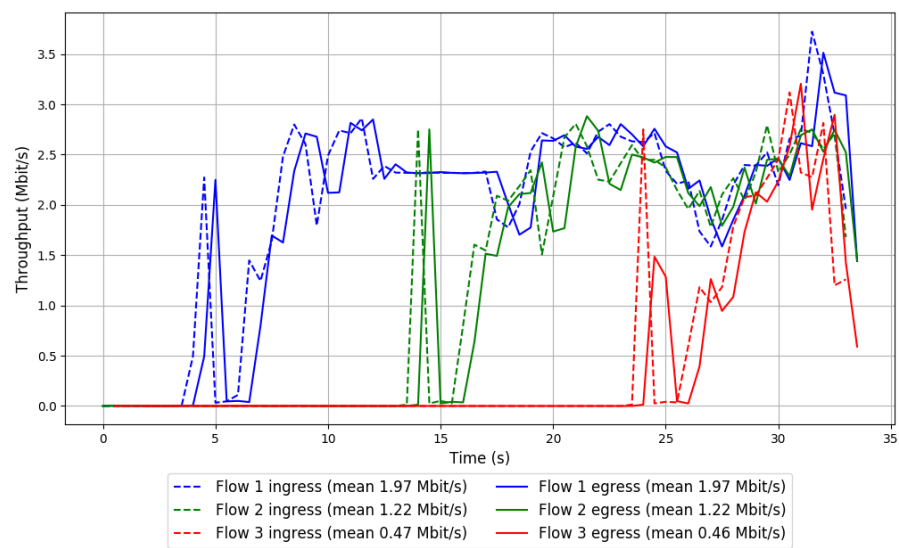


Run 9: Statistics of WebRTC media

Start at: 2018-06-19 03:02:21
End at: 2018-06-19 03:02:51
Local clock offset: 0.171 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-06-19 05:23:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 86.748 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 86.396 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 86.405 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.942 ms
Loss rate: 2.46%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 03:25:35

End at: 2018-06-19 03:26:05

Local clock offset: -0.208 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-19 05:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 86.090 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 86.116 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 86.032 ms

Loss rate: 1.04%

-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.112 ms

Loss rate: 1.67%

Run 10: Report of WebRTC media — Data Link

