

Pantheon Report

Generated at 2018-06-06 00:46:33 (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.

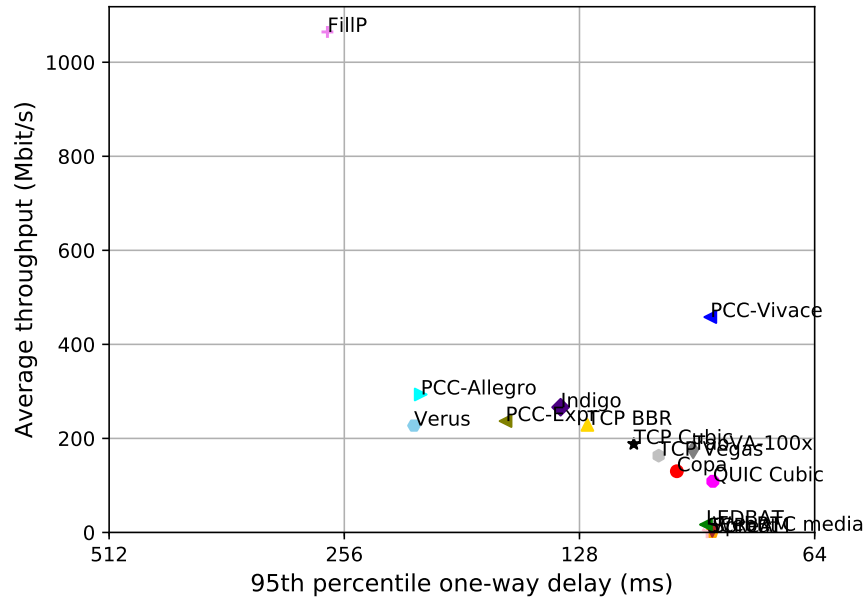
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

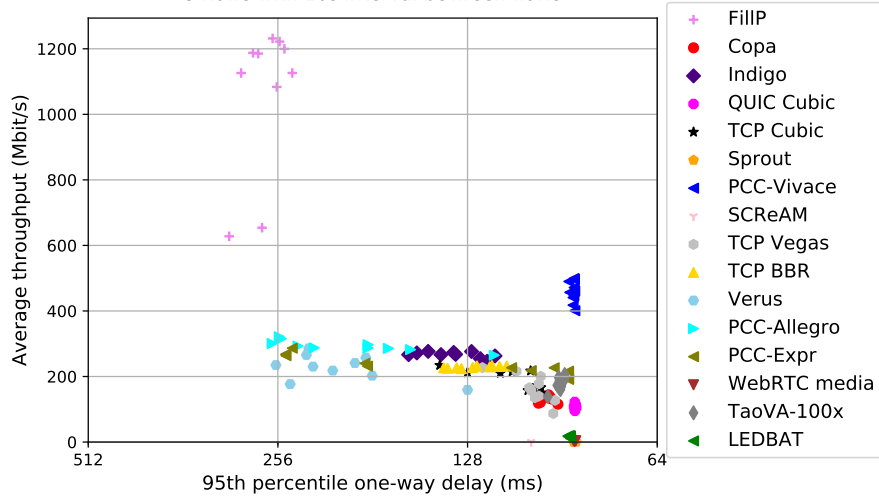
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE 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



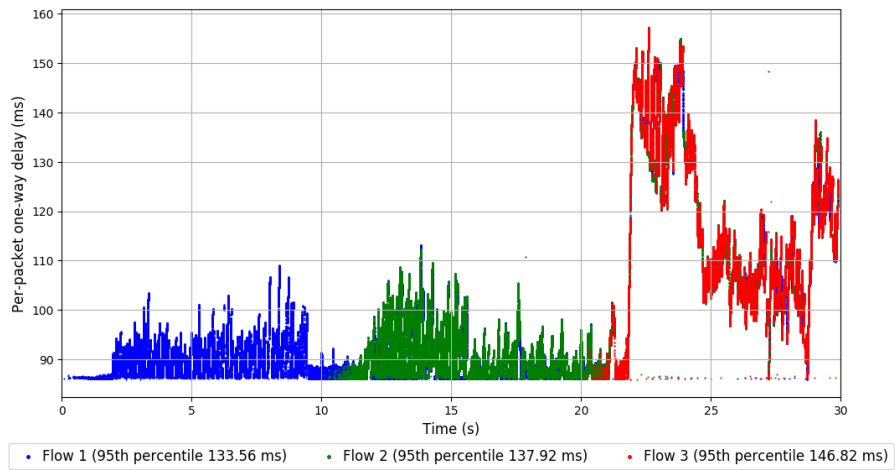
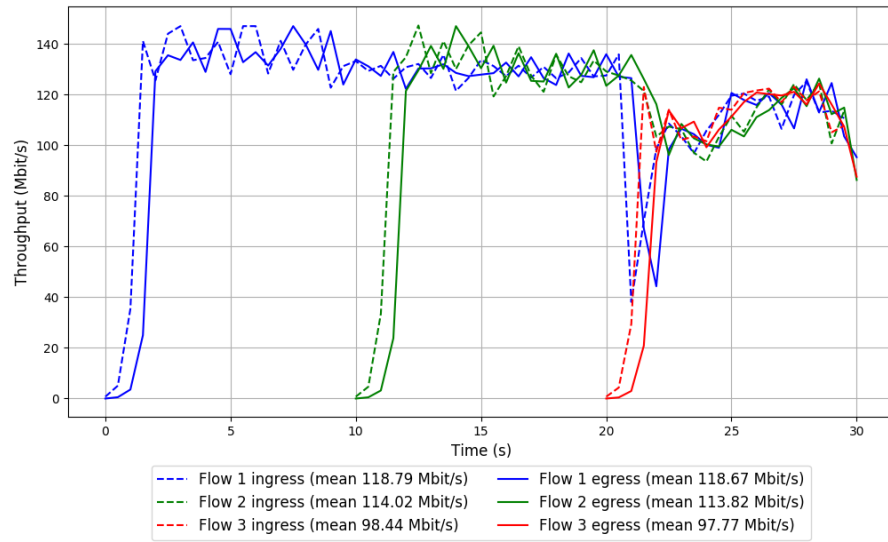
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	119.60	113.94	102.06	121.55	124.76	130.49	0.62	1.01	2.23
Copa	10	71.35	62.60	54.04	96.45	95.19	97.61	0.54	0.79	2.81
TCP Cubic	10	114.74	83.68	54.74	108.12	109.06	110.80	0.50	1.97	4.20
FillP	10	532.60	542.99	523.99	282.15	243.06	181.97	1.21	1.87	2.62
Indigo	10	160.88	129.02	62.28	127.76	136.67	144.15	0.54	0.86	2.39
LEDBAT	10	10.93	7.04	3.48	88.34	87.97	87.87	1.22	1.87	3.75
PCC-Allegro	10	251.16	57.49	12.84	204.21	201.97	207.38	1.29	1.30	2.36
PCC-Expr	10	173.11	82.60	27.68	156.30	160.98	170.02	1.26	2.08	4.78
QUIC Cubic	10	58.32	51.20	50.52	86.22	86.35	86.30	0.65	1.12	1.62
SCReAM	10	0.22	0.22	0.22	86.28	86.30	88.18	0.51	0.93	1.74
Sprout	10	0.27	0.33	0.32	86.53	86.54	86.63	0.40	0.74	1.00
TaoVA-100x	10	107.78	76.84	56.63	89.97	94.82	96.88	0.25	0.53	1.28
TCP Vegas	10	98.63	79.31	36.86	100.49	100.77	100.72	0.55	0.94	2.83
Verus	10	161.12	76.72	47.67	205.41	208.10	211.42	1.56	2.00	3.21
PCC-Vivace	10	274.26	215.61	125.33	86.95	88.47	86.87	0.55	1.09	2.83
WebRTC media	10	1.92	1.21	0.45	86.47	86.46	86.51	0.72	1.16	1.98

Run 1: Statistics of TCP BBR

Start at: 2018-06-05 19:30:26
End at: 2018-06-05 19:30:56
Local clock offset: 0.251 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-05 23:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.37 Mbit/s
95th percentile per-packet one-way delay: 139.656 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 118.67 Mbit/s
95th percentile per-packet one-way delay: 133.564 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 113.82 Mbit/s
95th percentile per-packet one-way delay: 137.916 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 97.77 Mbit/s
95th percentile per-packet one-way delay: 146.816 ms
Loss rate: 2.40%

Run 1: Report of TCP BBR — Data Link

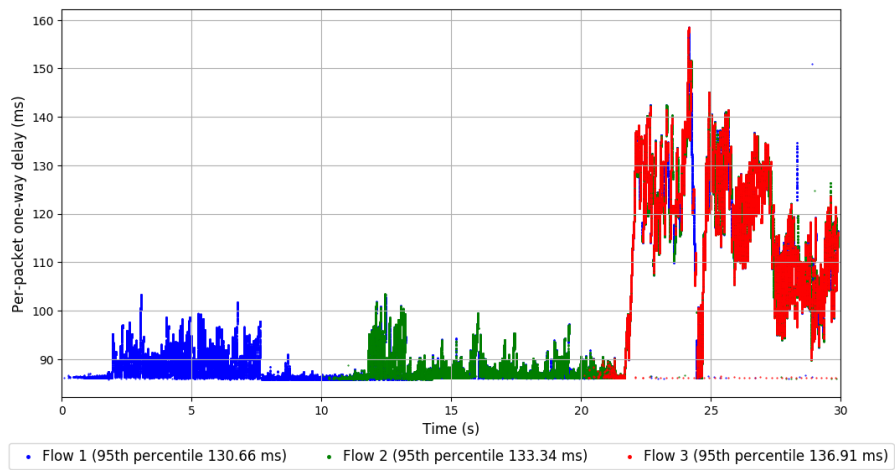
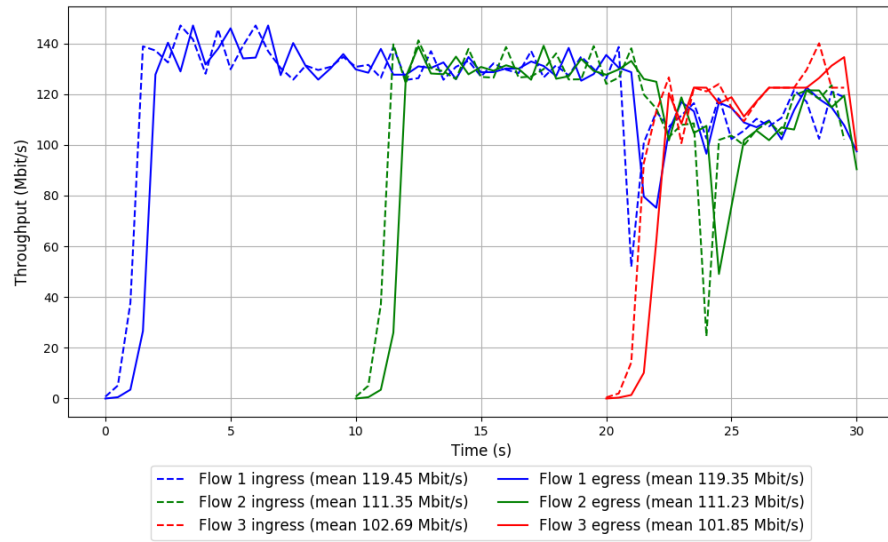


Run 2: Statistics of TCP BBR

Start at: 2018-06-05 19:53:06
End at: 2018-06-05 19:53:36
Local clock offset: 0.017 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-05 23:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.64 Mbit/s
95th percentile per-packet one-way delay: 133.192 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 119.35 Mbit/s
95th percentile per-packet one-way delay: 130.655 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 111.23 Mbit/s
95th percentile per-packet one-way delay: 133.344 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 101.85 Mbit/s
95th percentile per-packet one-way delay: 136.905 ms
Loss rate: 2.40%

Run 2: Report of TCP BBR — Data Link

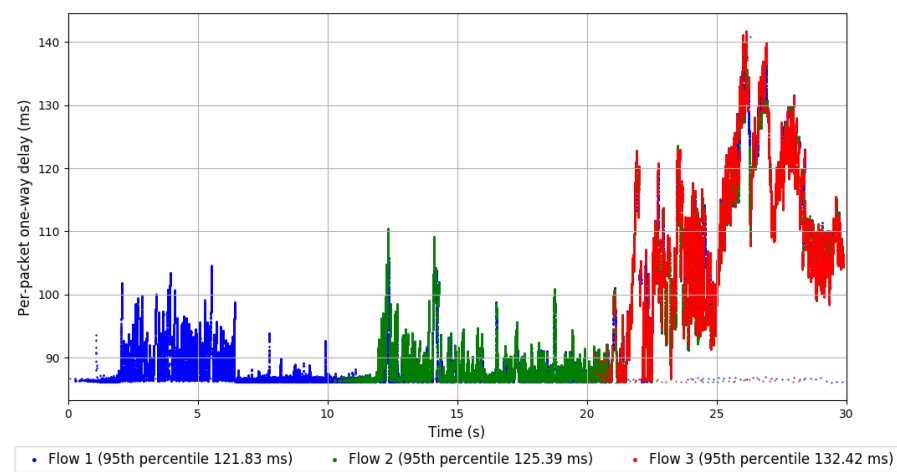
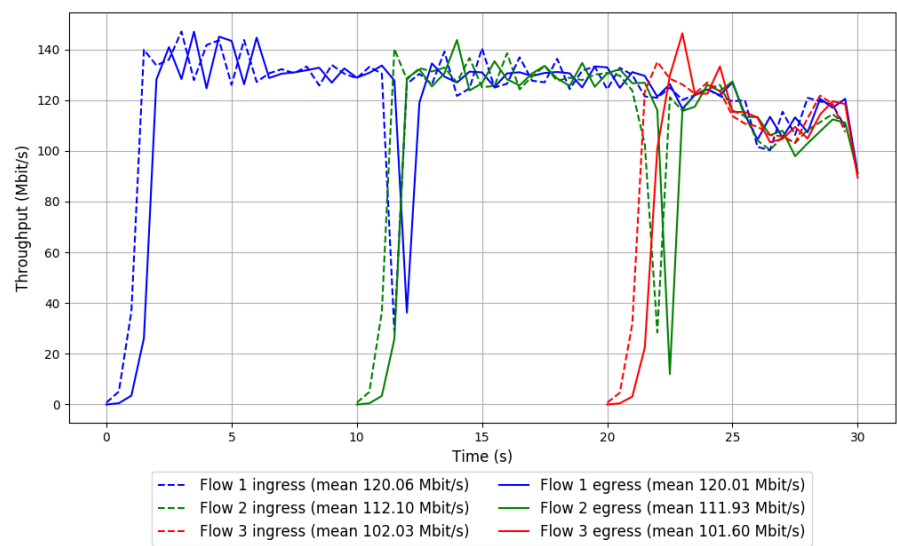


Run 3: Statistics of TCP BBR

Start at: 2018-06-05 20:15:51
End at: 2018-06-05 20:16:21
Local clock offset: -0.086 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-05 23:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 227.65 Mbit/s
95th percentile per-packet one-way delay: 125.606 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 120.01 Mbit/s
95th percentile per-packet one-way delay: 121.833 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 111.93 Mbit/s
95th percentile per-packet one-way delay: 125.388 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 101.60 Mbit/s
95th percentile per-packet one-way delay: 132.416 ms
Loss rate: 2.15%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-05 20:38:31

End at: 2018-06-05 20:39:01

Local clock offset: -0.316 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-05 23:17:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.56 Mbit/s

95th percentile per-packet one-way delay: 118.051 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 119.17 Mbit/s

95th percentile per-packet one-way delay: 115.291 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 114.25 Mbit/s

95th percentile per-packet one-way delay: 116.466 ms

Loss rate: 1.05%

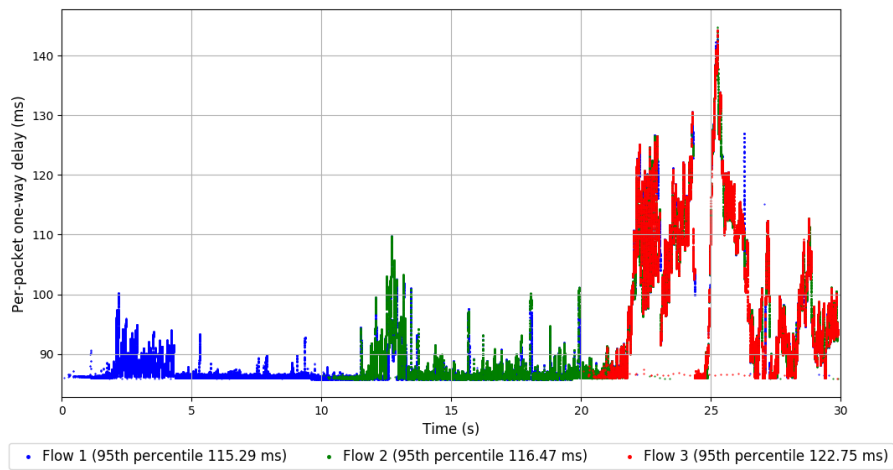
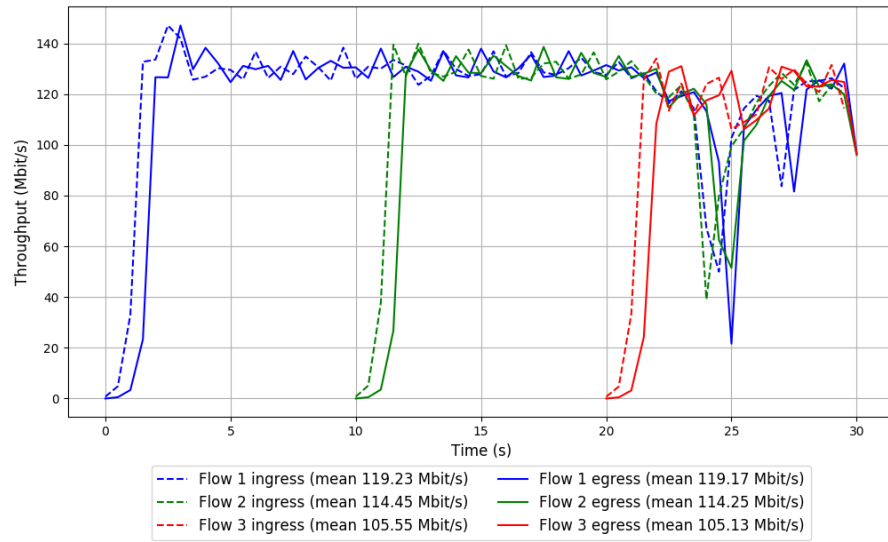
-- Flow 3:

Average throughput: 105.13 Mbit/s

95th percentile per-packet one-way delay: 122.746 ms

Loss rate: 2.17%

Run 4: Report of TCP BBR — Data Link

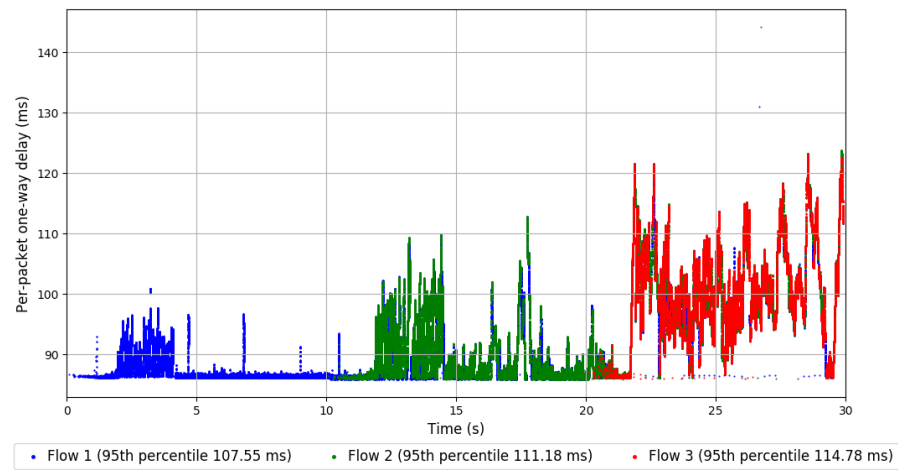
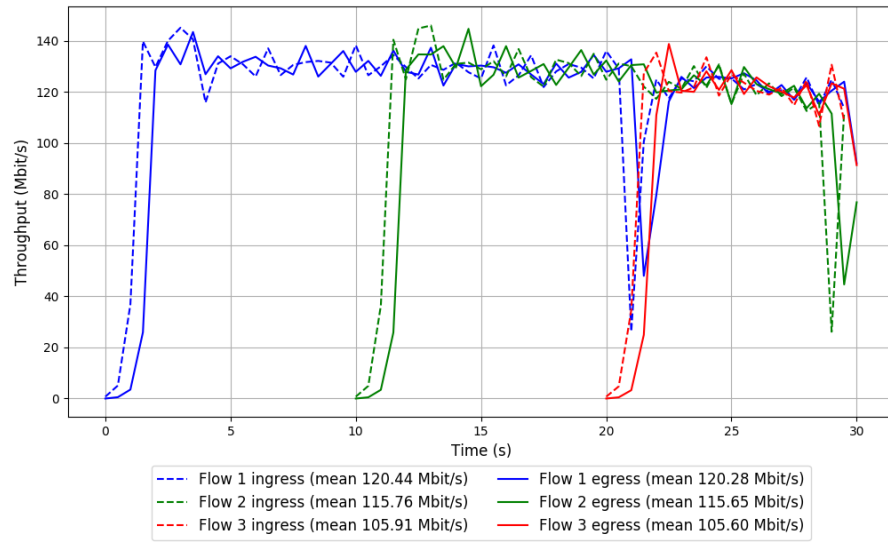


Run 5: Statistics of TCP BBR

Start at: 2018-06-05 21:01:00
End at: 2018-06-05 21:01:30
Local clock offset: -0.152 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-05 23:17:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.81 Mbit/s
95th percentile per-packet one-way delay: 110.926 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 120.28 Mbit/s
95th percentile per-packet one-way delay: 107.553 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 115.65 Mbit/s
95th percentile per-packet one-way delay: 111.176 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 105.60 Mbit/s
95th percentile per-packet one-way delay: 114.777 ms
Loss rate: 2.04%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-05 21:23:43

End at: 2018-06-05 21:24:13

Local clock offset: -0.266 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-05 23:17:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.03 Mbit/s

95th percentile per-packet one-way delay: 130.891 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 117.74 Mbit/s

95th percentile per-packet one-way delay: 126.467 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 111.51 Mbit/s

95th percentile per-packet one-way delay: 130.090 ms

Loss rate: 1.04%

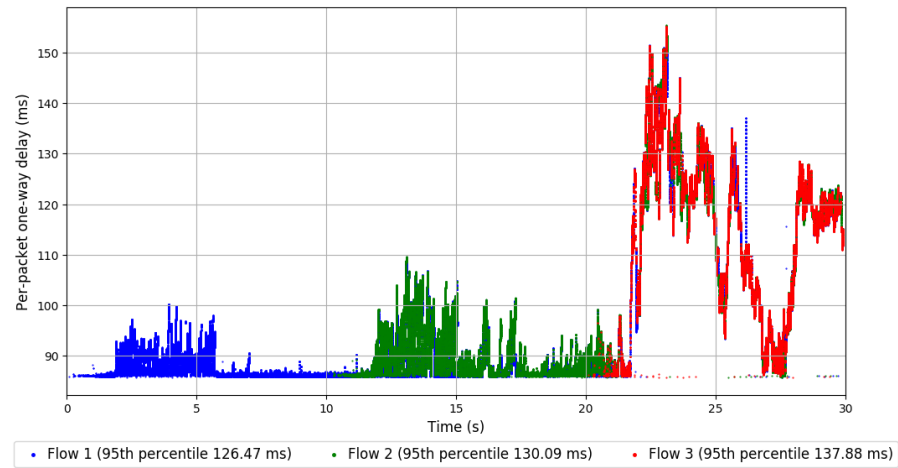
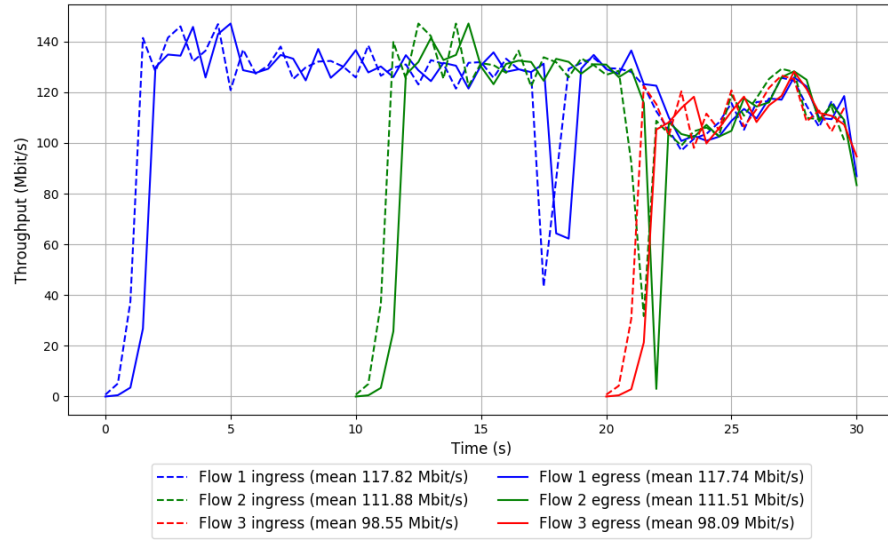
-- Flow 3:

Average throughput: 98.09 Mbit/s

95th percentile per-packet one-way delay: 137.880 ms

Loss rate: 2.20%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-05 21:46:22

End at: 2018-06-05 21:46:52

Local clock offset: -0.172 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-05 23:17:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.23 Mbit/s

95th percentile per-packet one-way delay: 137.671 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 118.43 Mbit/s

95th percentile per-packet one-way delay: 132.345 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 111.73 Mbit/s

95th percentile per-packet one-way delay: 137.817 ms

Loss rate: 0.99%

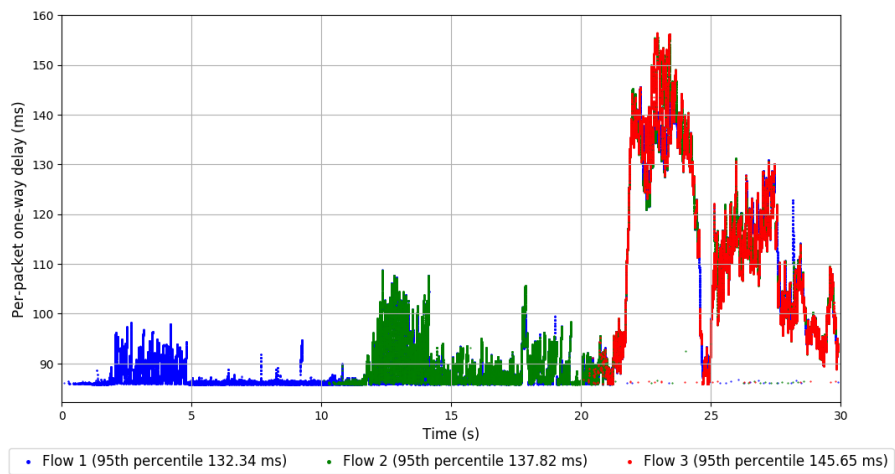
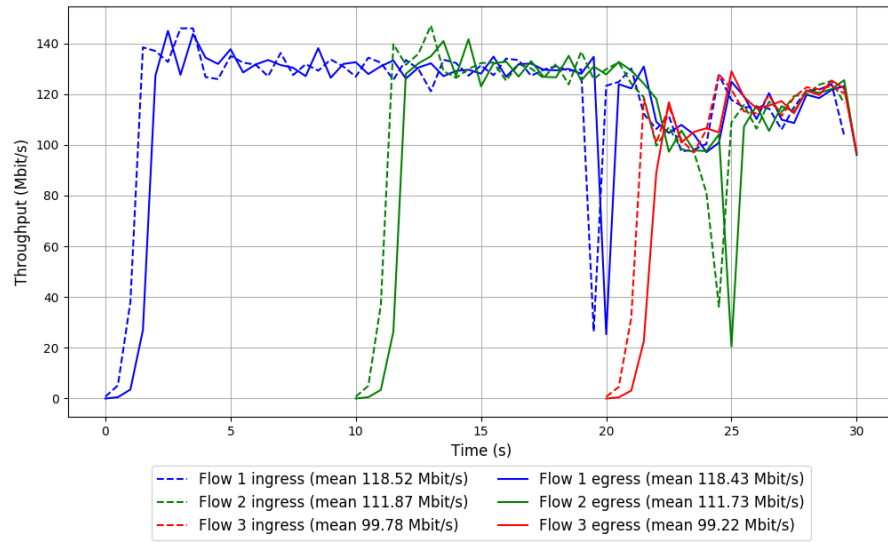
-- Flow 3:

Average throughput: 99.22 Mbit/s

95th percentile per-packet one-way delay: 145.645 ms

Loss rate: 2.35%

Run 7: Report of TCP BBR — Data Link

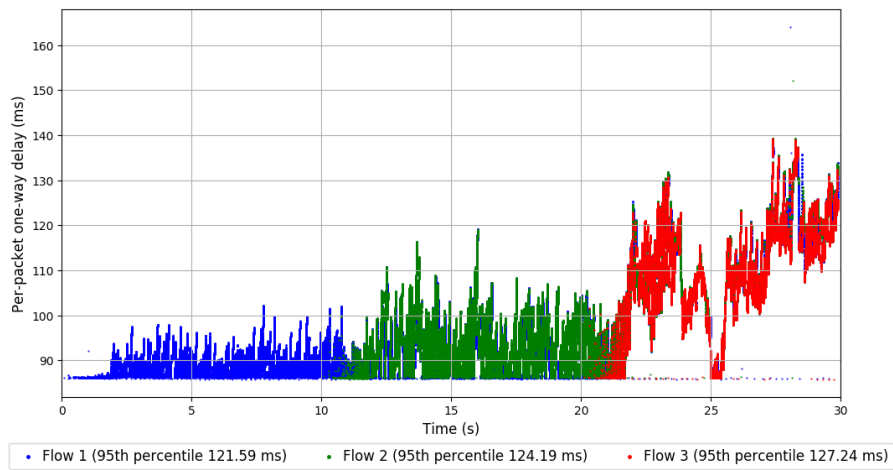
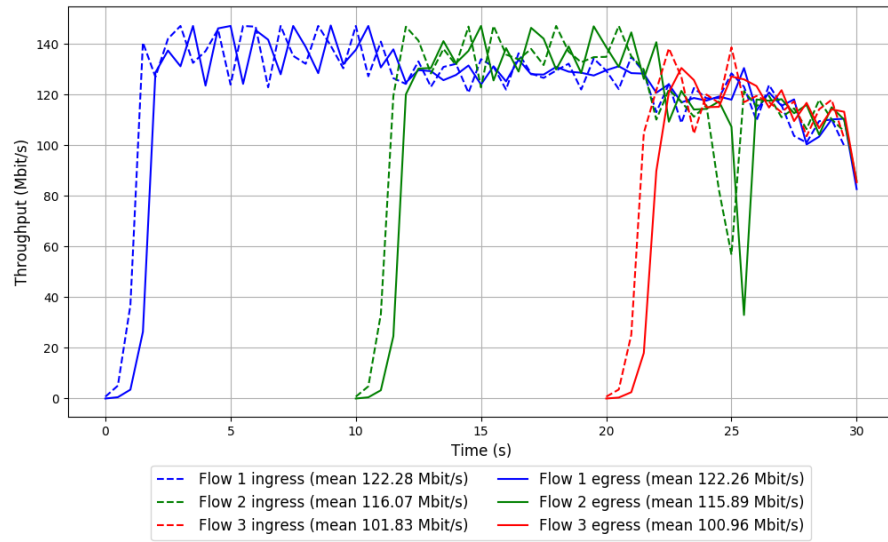


Run 8: Statistics of TCP BBR

Start at: 2018-06-05 22:08:39
End at: 2018-06-05 22:09:09
Local clock offset: -0.111 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-05 23:17:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 232.33 Mbit/s
95th percentile per-packet one-way delay: 123.650 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 122.26 Mbit/s
95th percentile per-packet one-way delay: 121.590 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 115.89 Mbit/s
95th percentile per-packet one-way delay: 124.191 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 100.96 Mbit/s
95th percentile per-packet one-way delay: 127.241 ms
Loss rate: 2.30%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-05 22:31:06

End at: 2018-06-05 22:31:36

Local clock offset: 0.047 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-05 23:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.57 Mbit/s

95th percentile per-packet one-way delay: 113.840 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 119.96 Mbit/s

95th percentile per-packet one-way delay: 111.243 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 114.71 Mbit/s

95th percentile per-packet one-way delay: 114.647 ms

Loss rate: 0.94%

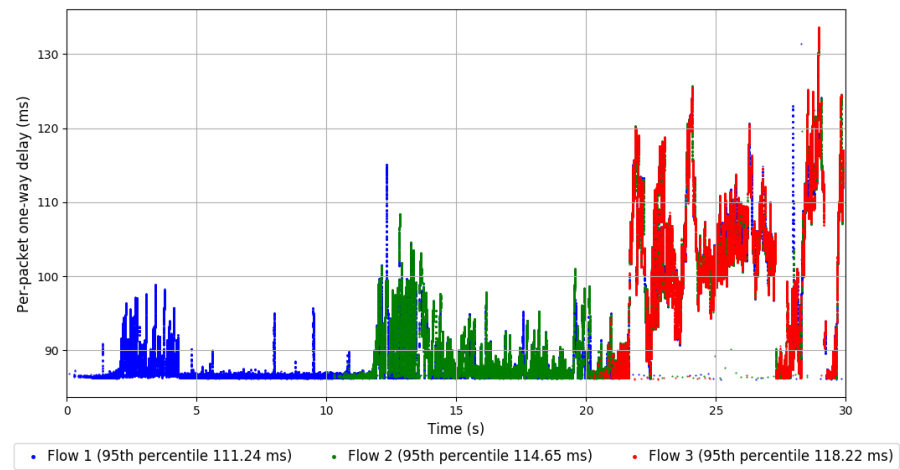
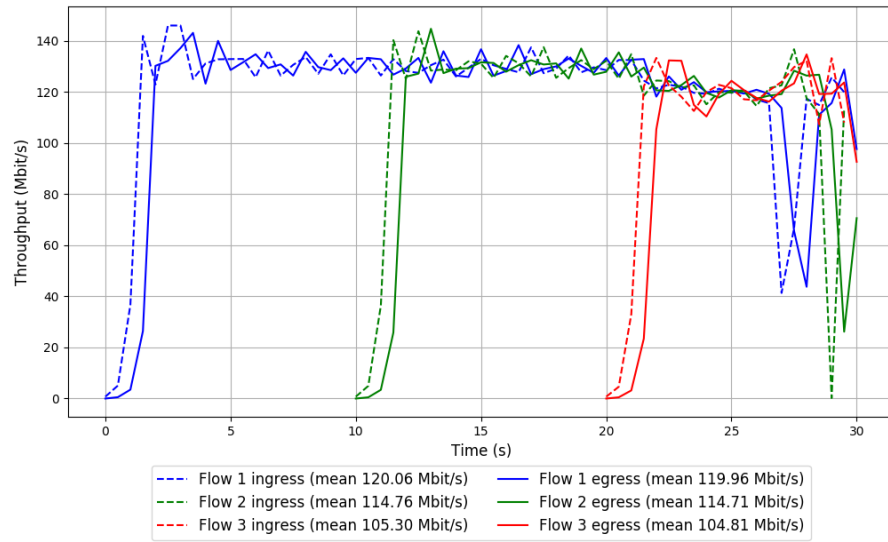
-- Flow 3:

Average throughput: 104.81 Mbit/s

95th percentile per-packet one-way delay: 118.225 ms

Loss rate: 2.20%

Run 9: Report of TCP BBR — Data Link

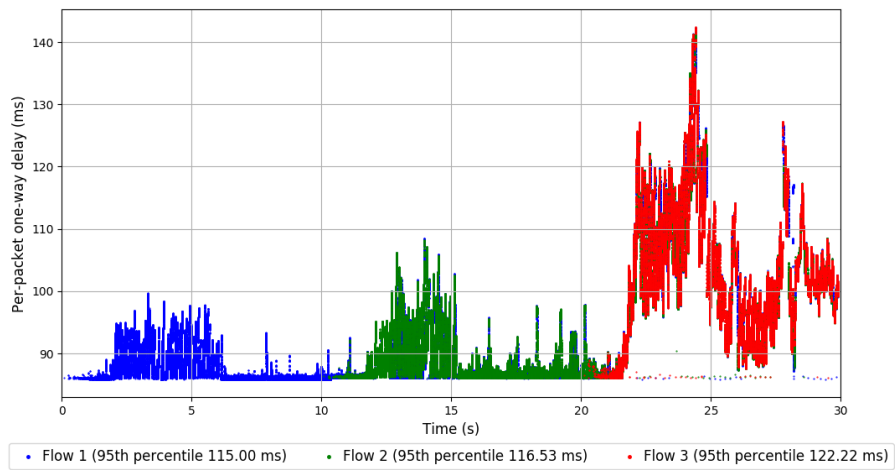
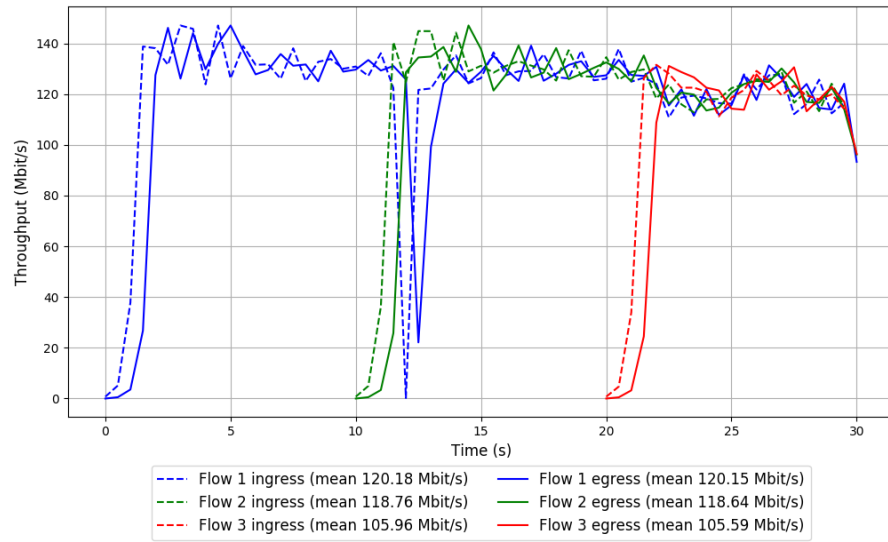


Run 10: Statistics of TCP BBR

Start at: 2018-06-05 22:53:50
End at: 2018-06-05 22:54:20
Local clock offset: -0.087 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-05 23:20:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 233.52 Mbit/s
95th percentile per-packet one-way delay: 117.075 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 120.15 Mbit/s
95th percentile per-packet one-way delay: 114.995 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 118.64 Mbit/s
95th percentile per-packet one-way delay: 116.526 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 105.59 Mbit/s
95th percentile per-packet one-way delay: 122.219 ms
Loss rate: 2.06%

Run 10: Report of TCP BBR — Data Link

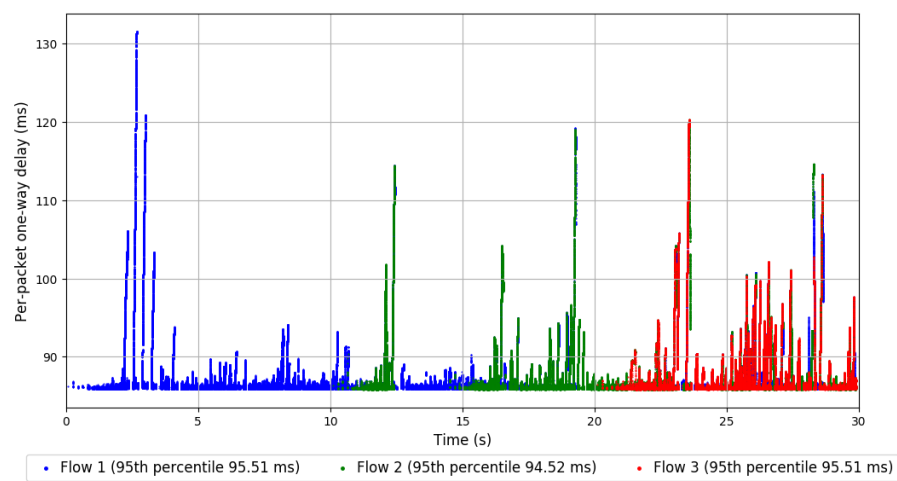
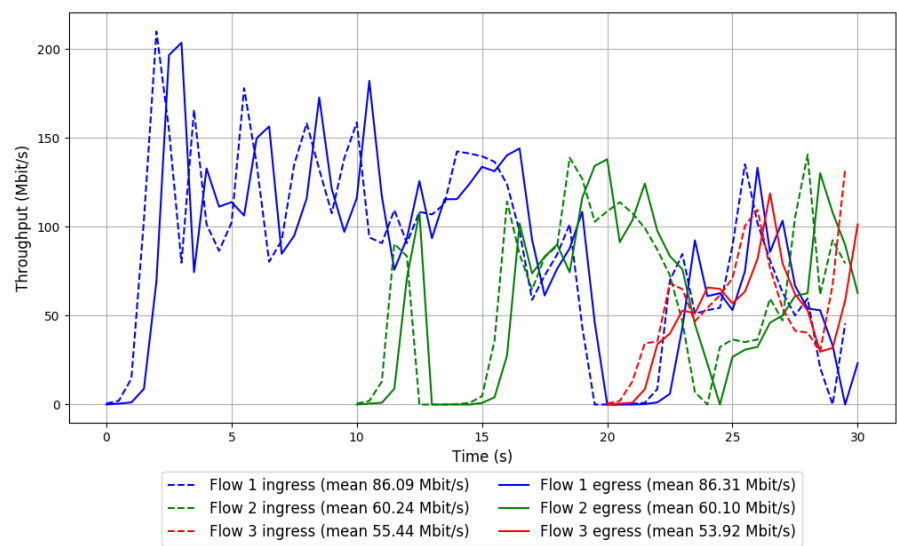


Run 1: Statistics of Copa

Start at: 2018-06-05 19:31:50
End at: 2018-06-05 19:32:20
Local clock offset: 0.27 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-05 23:21:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 143.83 Mbit/s
95th percentile per-packet one-way delay: 95.229 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 86.31 Mbit/s
95th percentile per-packet one-way delay: 95.513 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 60.10 Mbit/s
95th percentile per-packet one-way delay: 94.515 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 95.508 ms
Loss rate: 4.44%

Run 1: Report of Copa — Data Link

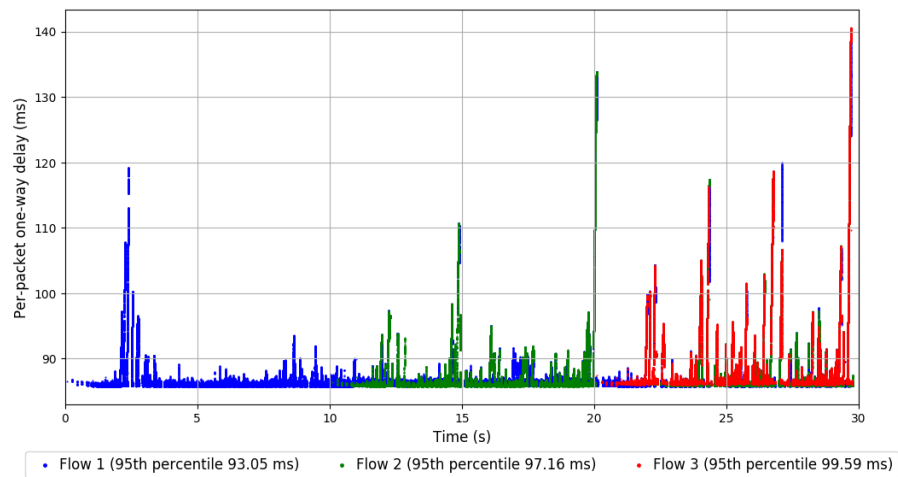
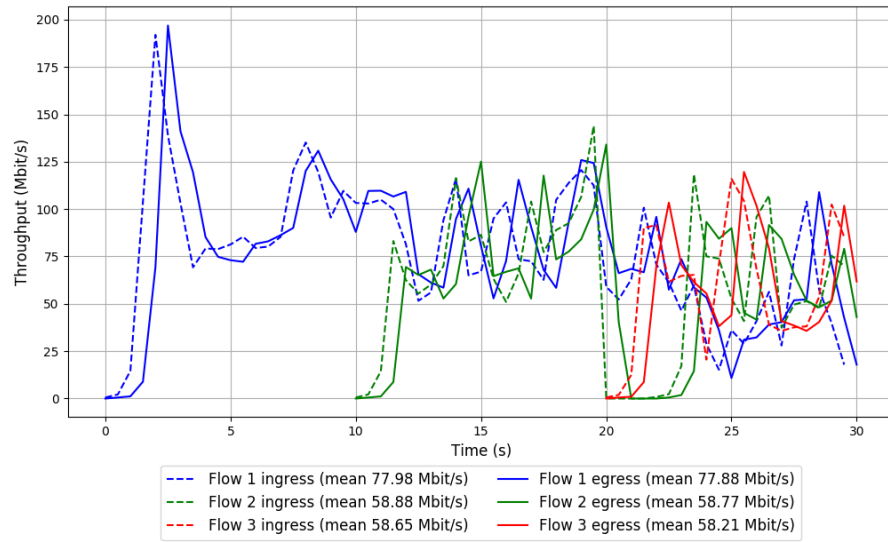


Run 2: Statistics of Copa

Start at: 2018-06-05 19:54:29
End at: 2018-06-05 19:55:00
Local clock offset: -0.029 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-05 23:21:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.64 Mbit/s
95th percentile per-packet one-way delay: 95.281 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 77.88 Mbit/s
95th percentile per-packet one-way delay: 93.046 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.77 Mbit/s
95th percentile per-packet one-way delay: 97.160 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 58.21 Mbit/s
95th percentile per-packet one-way delay: 99.591 ms
Loss rate: 3.10%

Run 2: Report of Copa — Data Link

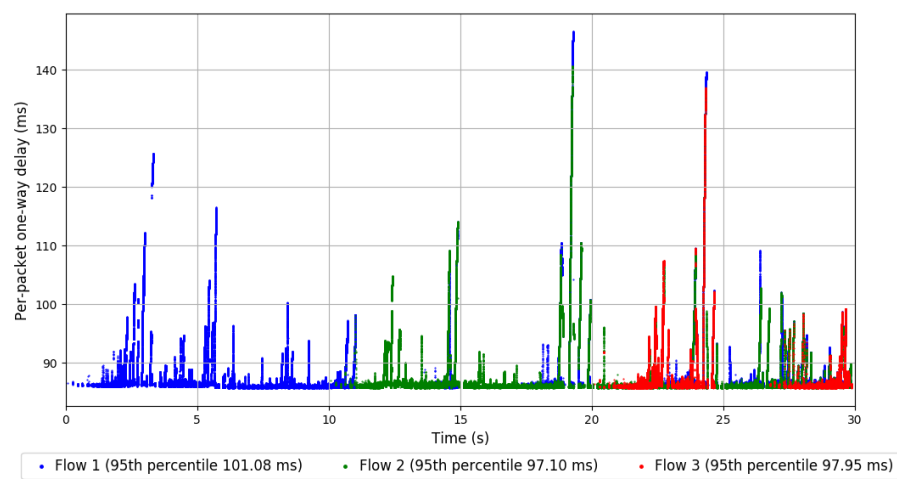
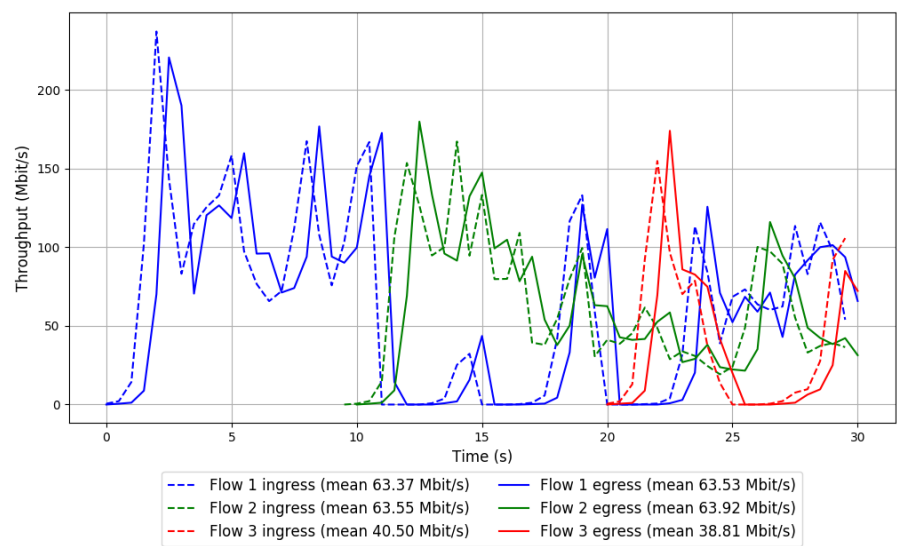


Run 3: Statistics of Copa

Start at: 2018-06-05 20:17:15
End at: 2018-06-05 20:17:45
Local clock offset: -0.326 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-05 23:21:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.67 Mbit/s
95th percentile per-packet one-way delay: 98.768 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 63.53 Mbit/s
95th percentile per-packet one-way delay: 101.075 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 97.099 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 97.946 ms
Loss rate: 5.66%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-05 20:39:55

End at: 2018-06-05 20:40:25

Local clock offset: -0.244 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-05 23:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.86 Mbit/s

95th percentile per-packet one-way delay: 99.000 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 54.13 Mbit/s

95th percentile per-packet one-way delay: 102.219 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 96.103 ms

Loss rate: 1.14%

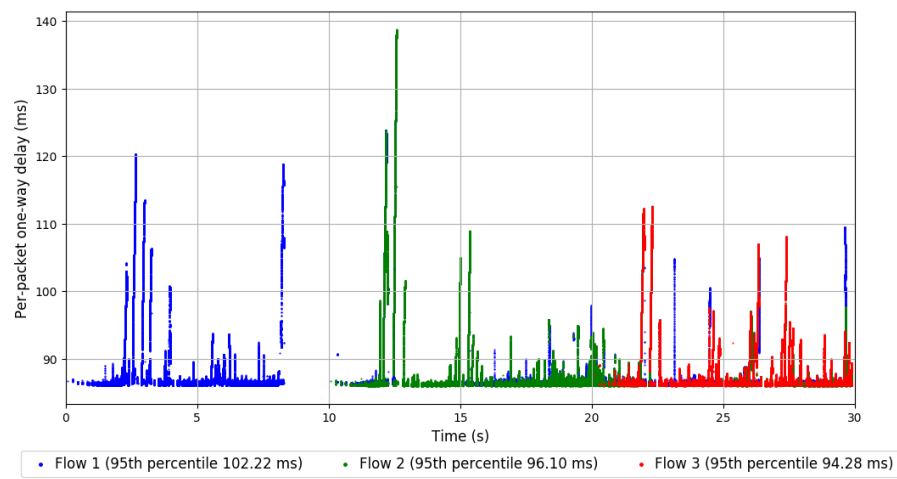
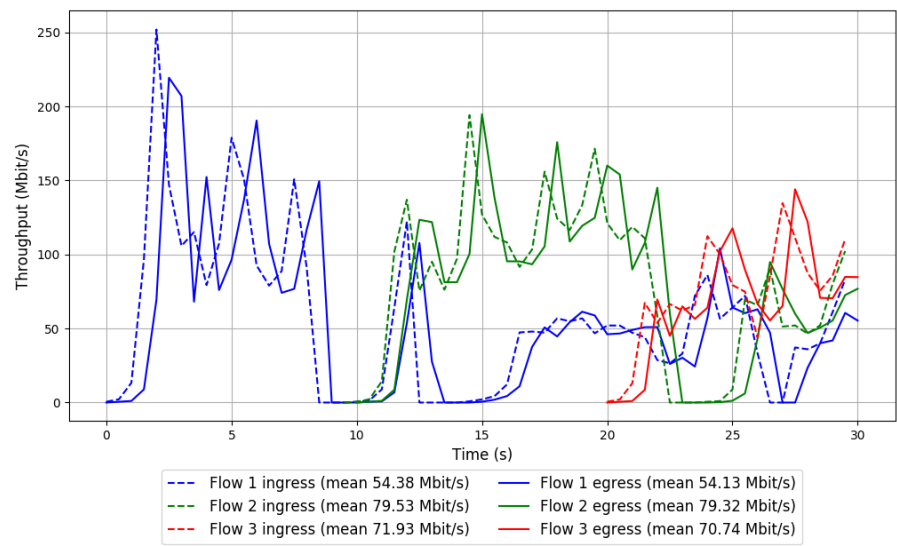
-- Flow 3:

Average throughput: 70.74 Mbit/s

95th percentile per-packet one-way delay: 94.277 ms

Loss rate: 3.37%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-05 21:02:25

End at: 2018-06-05 21:02:55

Local clock offset: -0.217 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-05 23:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.75 Mbit/s

95th percentile per-packet one-way delay: 95.783 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 95.306 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 94.360 ms

Loss rate: 1.15%

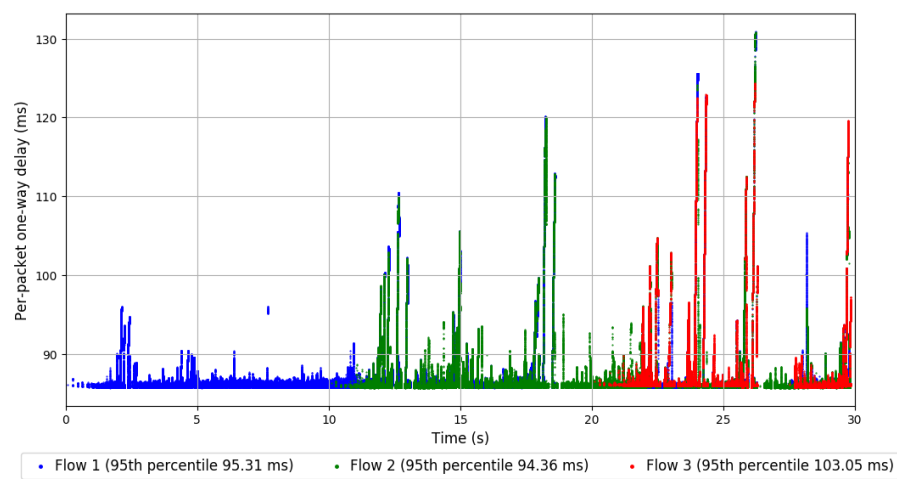
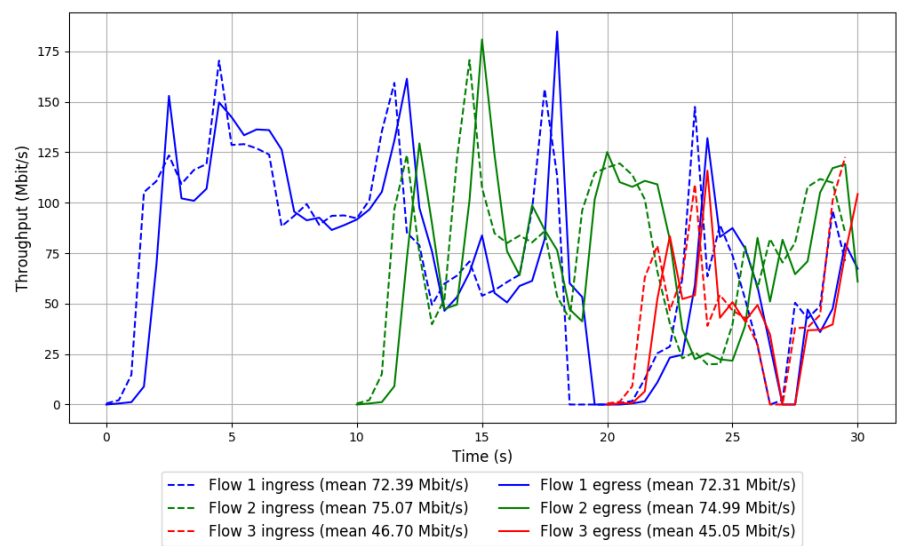
-- Flow 3:

Average throughput: 45.05 Mbit/s

95th percentile per-packet one-way delay: 103.047 ms

Loss rate: 5.57%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-05 21:25:07

End at: 2018-06-05 21:25:37

Local clock offset: -0.279 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-05 23:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.22 Mbit/s

95th percentile per-packet one-way delay: 98.105 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 98.459 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 54.56 Mbit/s

95th percentile per-packet one-way delay: 94.068 ms

Loss rate: 0.00%

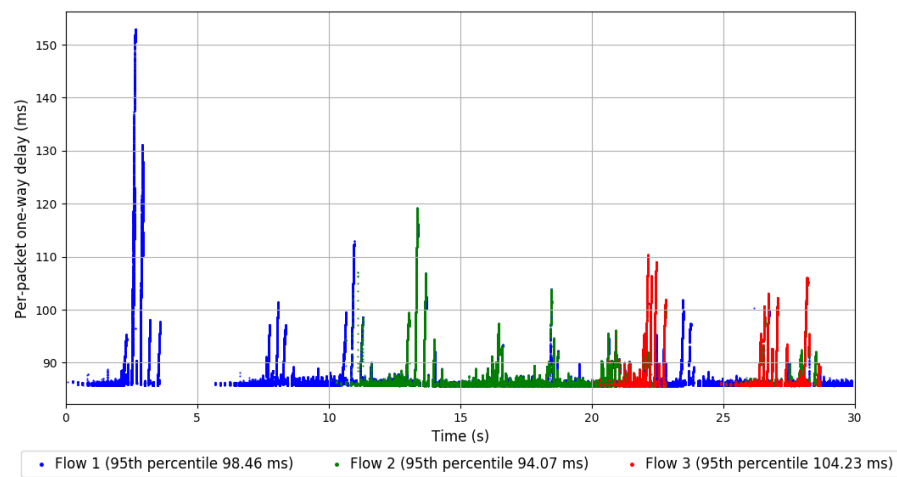
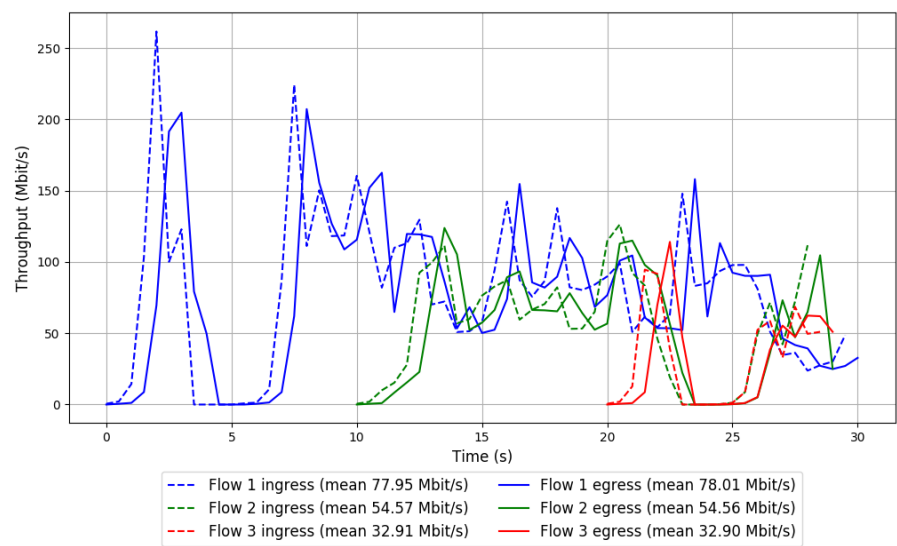
-- Flow 3:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 104.234 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-05 21:47:46

End at: 2018-06-05 21:48:16

Local clock offset: -0.122 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-05 23:24:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.29 Mbit/s

95th percentile per-packet one-way delay: 94.606 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 67.31 Mbit/s

95th percentile per-packet one-way delay: 97.245 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 92.543 ms

Loss rate: 0.30%

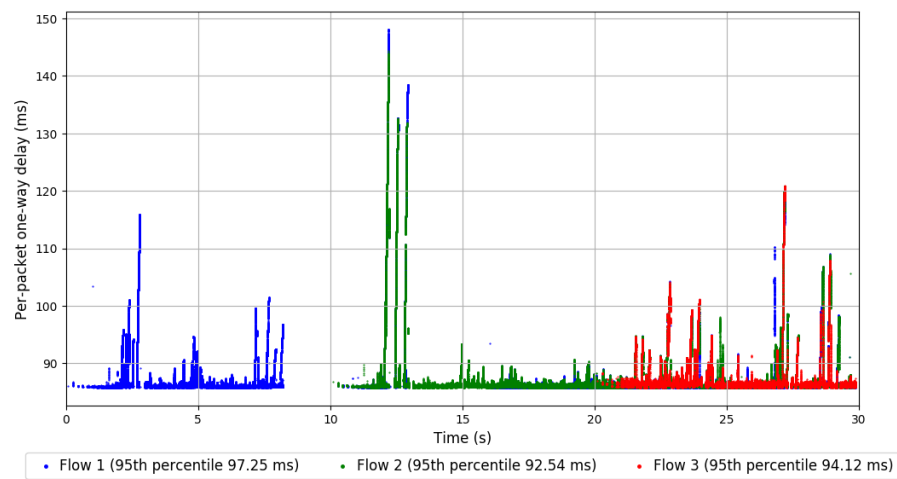
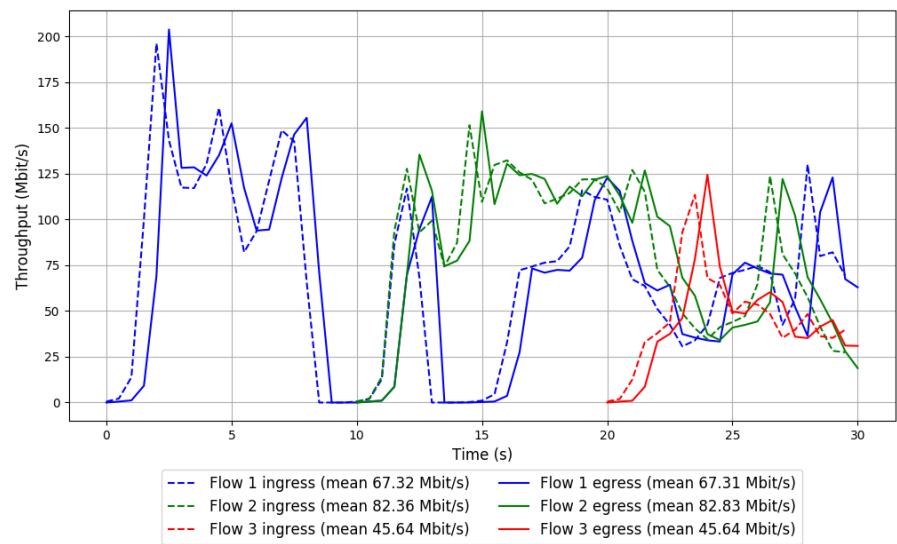
-- Flow 3:

Average throughput: 45.64 Mbit/s

95th percentile per-packet one-way delay: 94.116 ms

Loss rate: 1.72%

Run 7: Report of Copa — Data Link

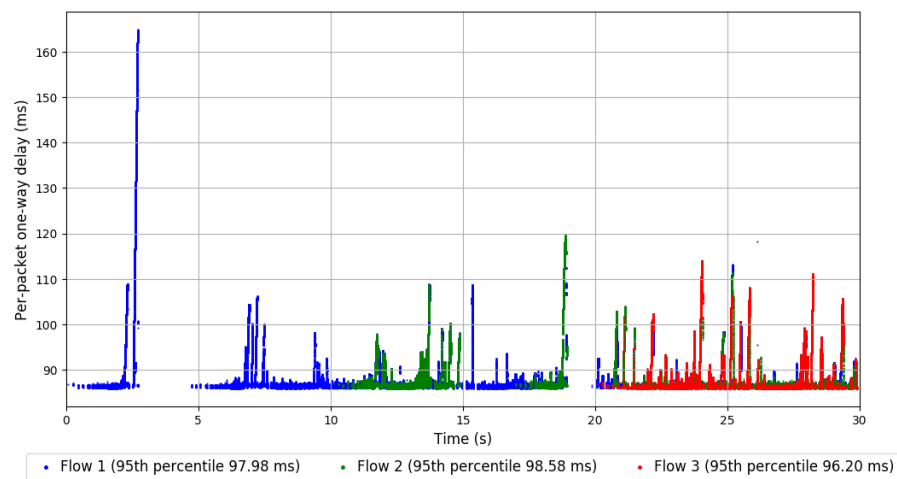
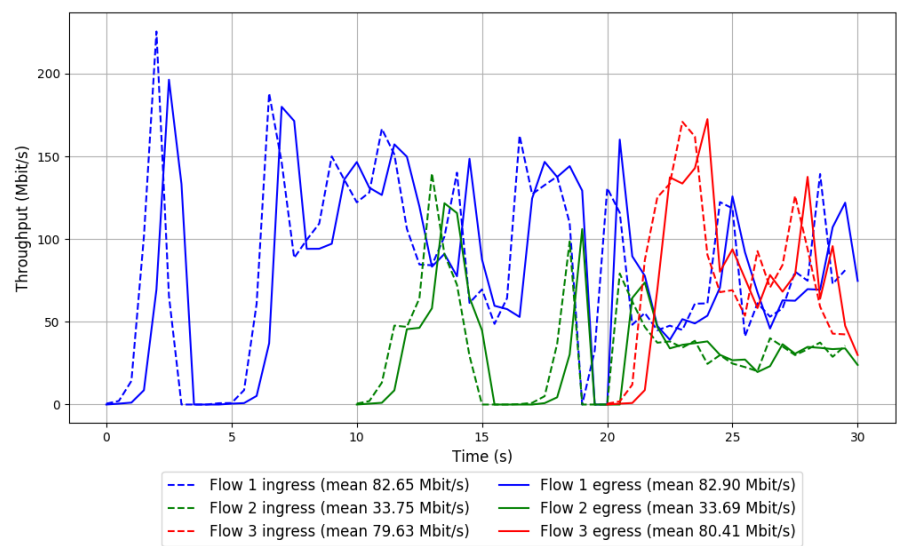


Run 8: Statistics of Copa

Start at: 2018-06-05 22:10:03
End at: 2018-06-05 22:10:33
Local clock offset: -0.003 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-05 23:24:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 131.58 Mbit/s
95th percentile per-packet one-way delay: 97.810 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 82.90 Mbit/s
95th percentile per-packet one-way delay: 97.979 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 98.577 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 80.41 Mbit/s
95th percentile per-packet one-way delay: 96.204 ms
Loss rate: 0.79%

Run 8: Report of Copa — Data Link

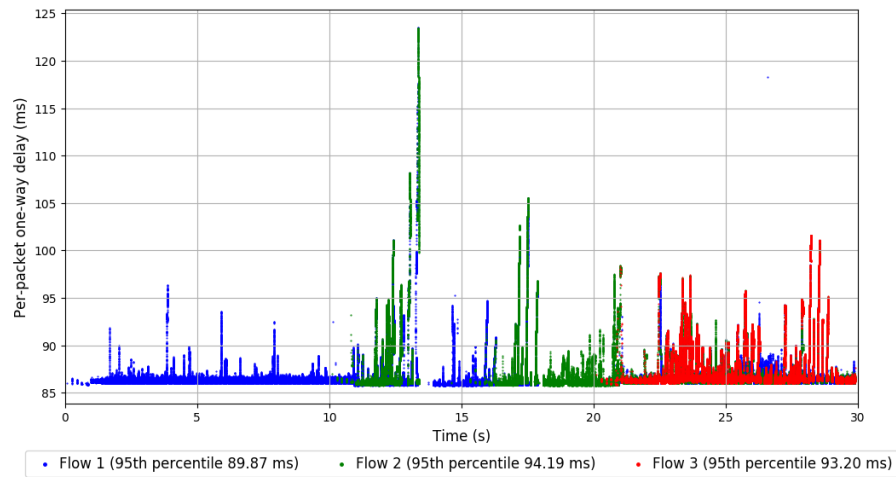
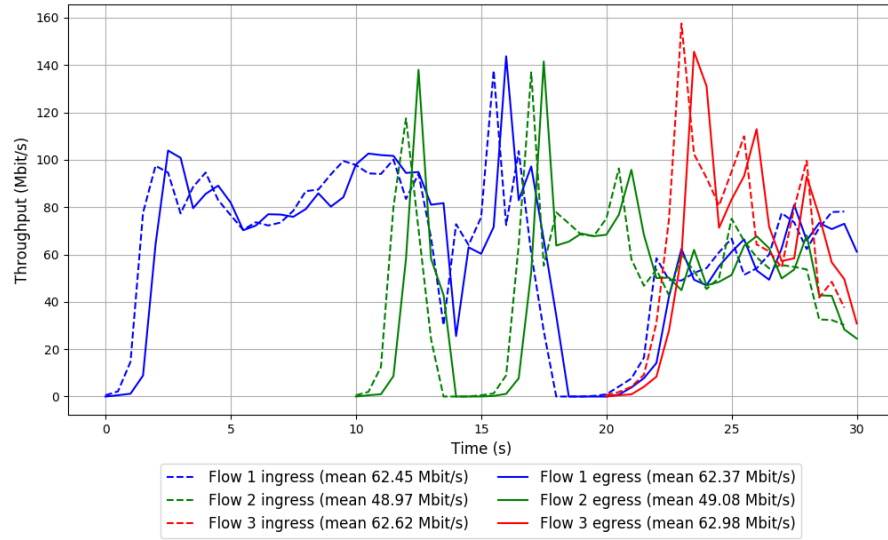


Run 9: Statistics of Copa

Start at: 2018-06-05 22:32:30
End at: 2018-06-05 22:33:00
Local clock offset: -0.116 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-05 23:24:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.62 Mbit/s
95th percentile per-packet one-way delay: 91.997 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 89.873 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 94.185 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 93.205 ms
Loss rate: 1.18%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-05 22:55:14

End at: 2018-06-05 22:55:44

Local clock offset: -0.266 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-06-05 23:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.38 Mbit/s

95th percentile per-packet one-way delay: 94.133 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 93.767 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 68.75 Mbit/s

95th percentile per-packet one-way delay: 93.261 ms

Loss rate: 0.80%

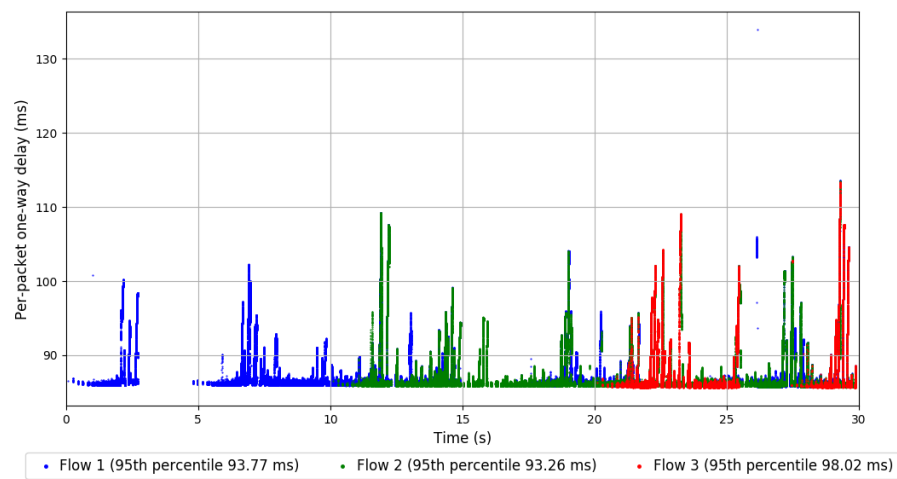
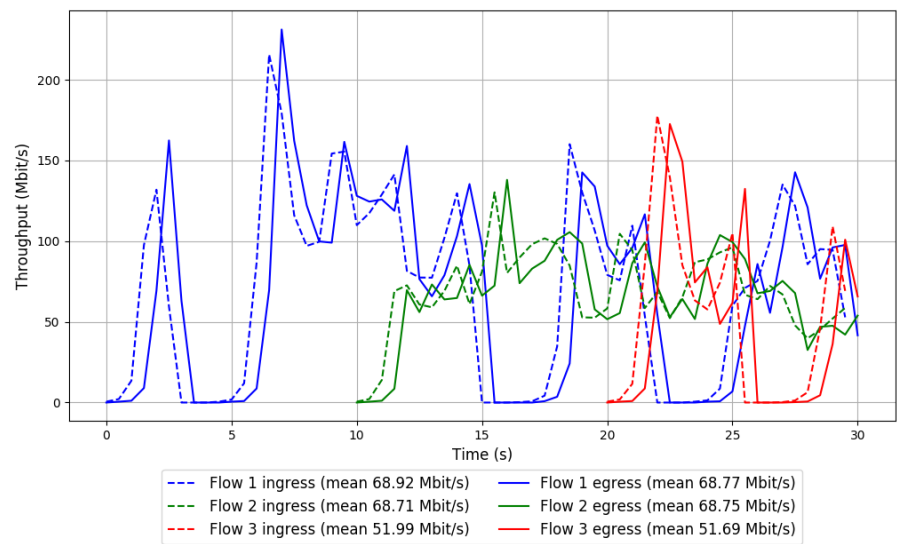
-- Flow 3:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 98.021 ms

Loss rate: 2.31%

Run 10: Report of Copa — Data Link

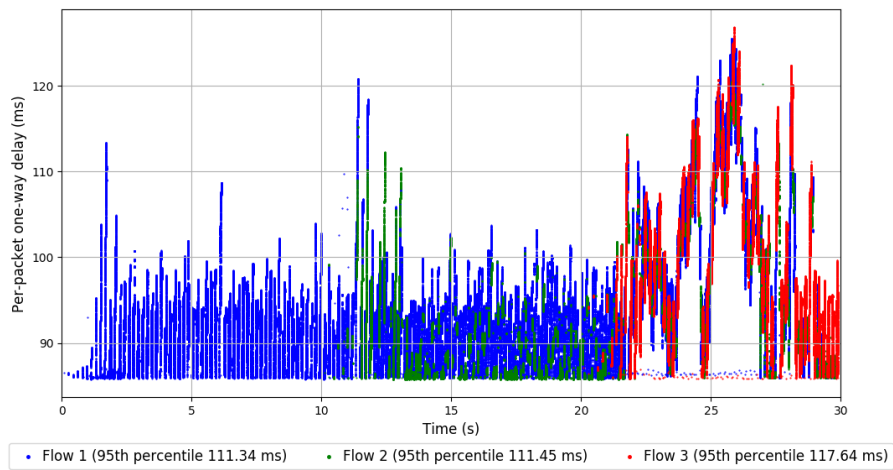
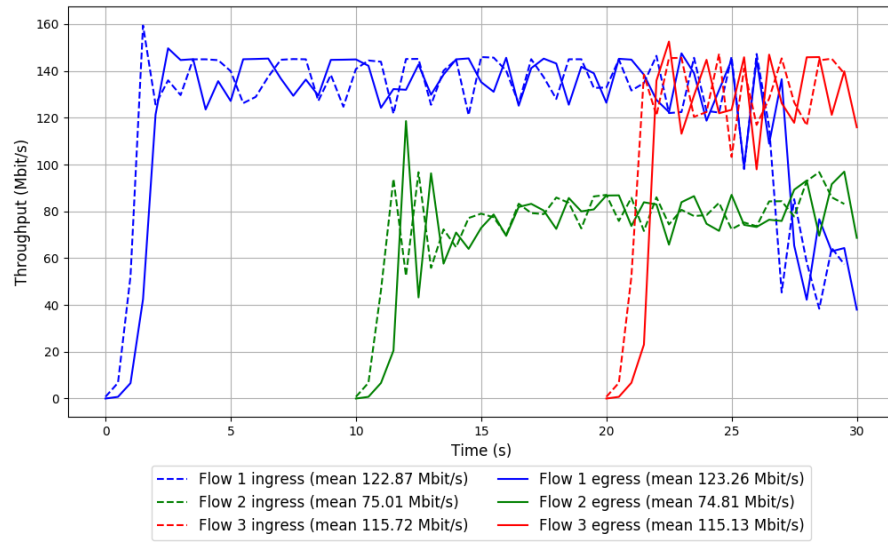


Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 19:23:28
End at: 2018-06-05 19:23:58
Local clock offset: 0.174 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-05 23:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.37 Mbit/s
95th percentile per-packet one-way delay: 113.543 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 123.26 Mbit/s
95th percentile per-packet one-way delay: 111.345 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 111.447 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 115.13 Mbit/s
95th percentile per-packet one-way delay: 117.635 ms
Loss rate: 2.24%

Run 1: Report of TCP Cubic — Data Link

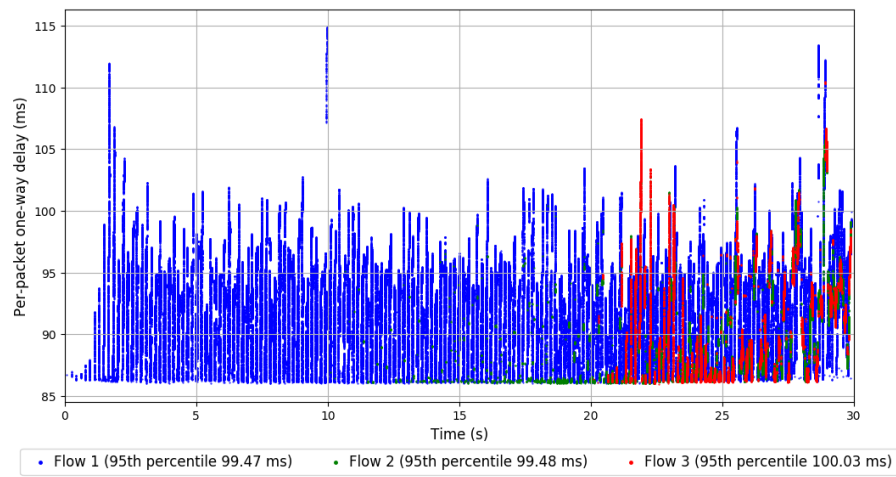
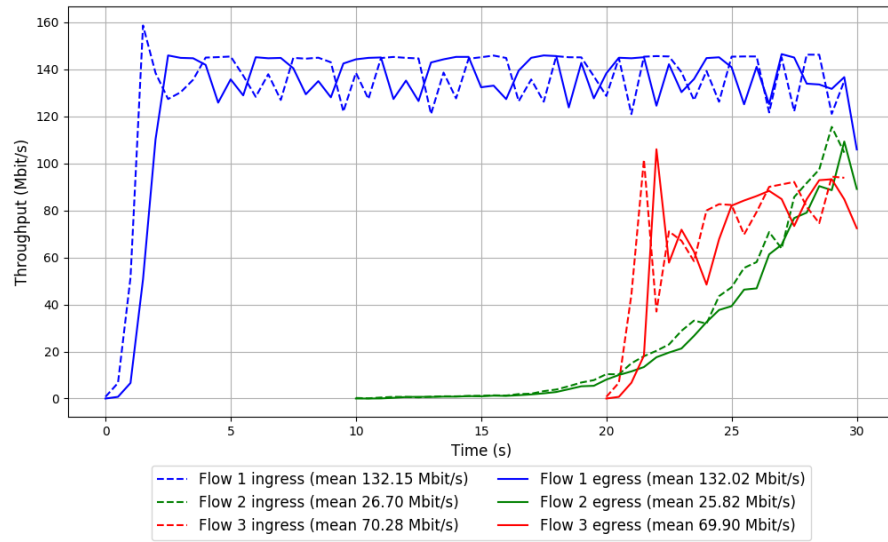


Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 19:46:08
End at: 2018-06-05 19:46:38
Local clock offset: 0.277 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-05 23:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 172.08 Mbit/s
95th percentile per-packet one-way delay: 99.491 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 132.02 Mbit/s
95th percentile per-packet one-way delay: 99.470 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 25.82 Mbit/s
95th percentile per-packet one-way delay: 99.483 ms
Loss rate: 4.13%
-- Flow 3:
Average throughput: 69.90 Mbit/s
95th percentile per-packet one-way delay: 100.028 ms
Loss rate: 2.26%

Run 2: Report of TCP Cubic — Data Link

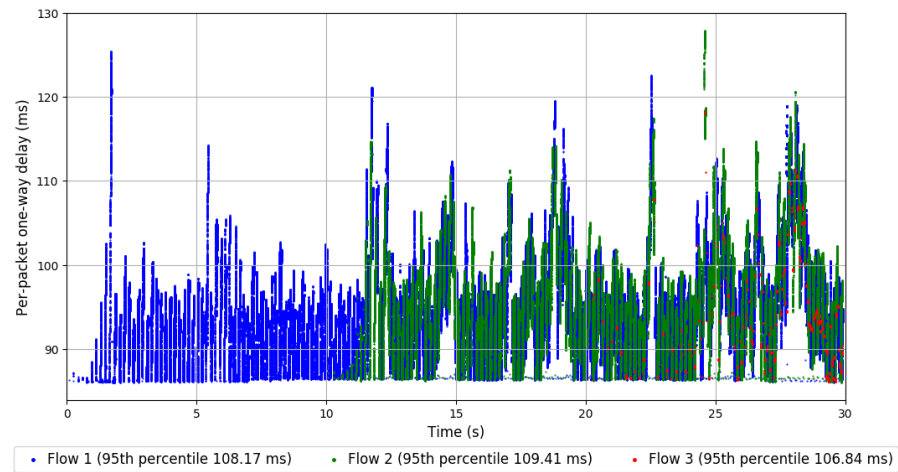
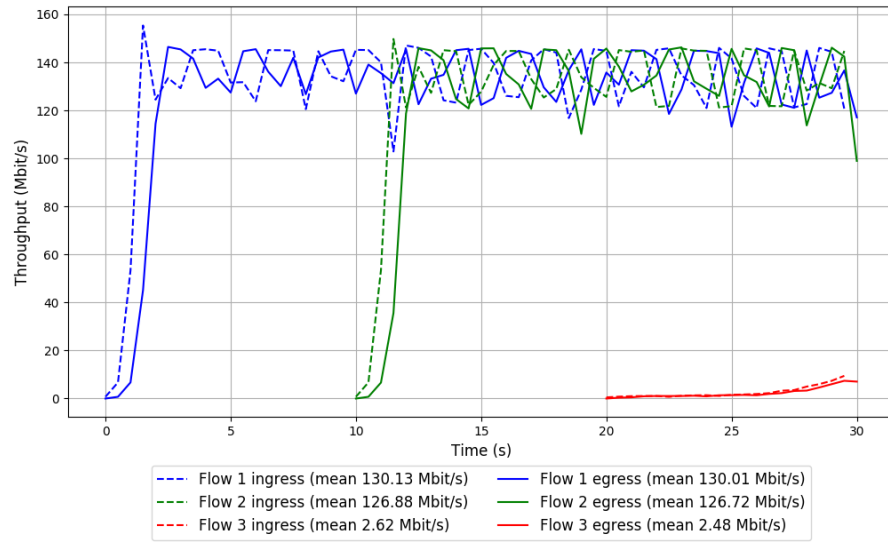


Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 20:08:53
End at: 2018-06-05 20:09:23
Local clock offset: 0.015 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-05 23:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.83 Mbit/s
95th percentile per-packet one-way delay: 108.740 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 130.01 Mbit/s
95th percentile per-packet one-way delay: 108.169 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 126.72 Mbit/s
95th percentile per-packet one-way delay: 109.405 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 106.837 ms
Loss rate: 7.05%

Run 3: Report of TCP Cubic — Data Link

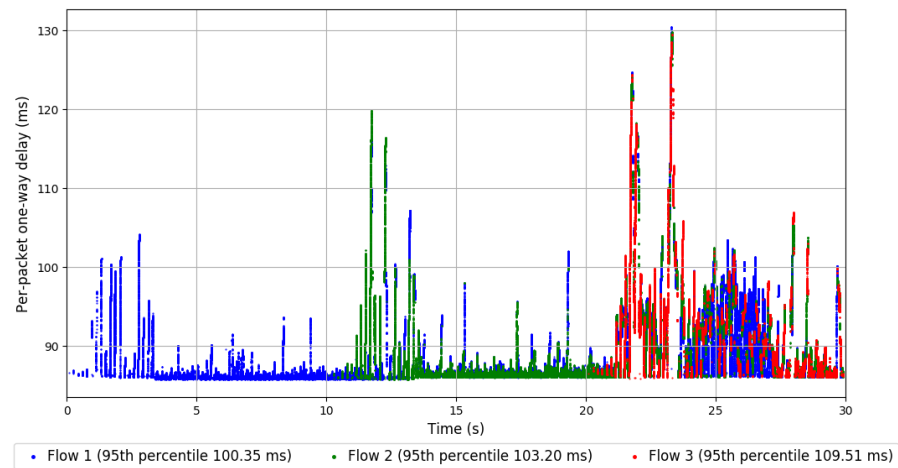
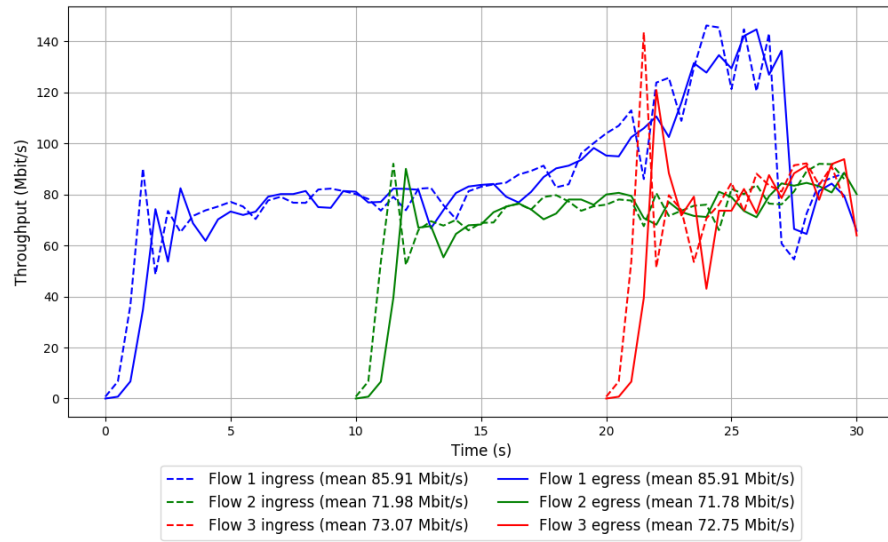


Run 4: Statistics of TCP Cubic

Start at: 2018-06-05 20:31:37
End at: 2018-06-05 20:32:07
Local clock offset: -0.24 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-05 23:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.43 Mbit/s
95th percentile per-packet one-way delay: 102.640 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 85.91 Mbit/s
95th percentile per-packet one-way delay: 100.348 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 71.78 Mbit/s
95th percentile per-packet one-way delay: 103.203 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 109.509 ms
Loss rate: 2.17%

Run 4: Report of TCP Cubic — Data Link

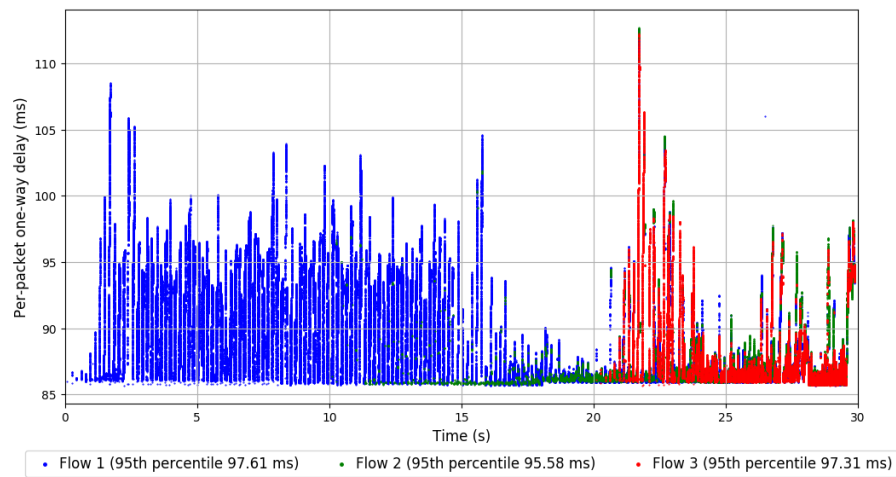
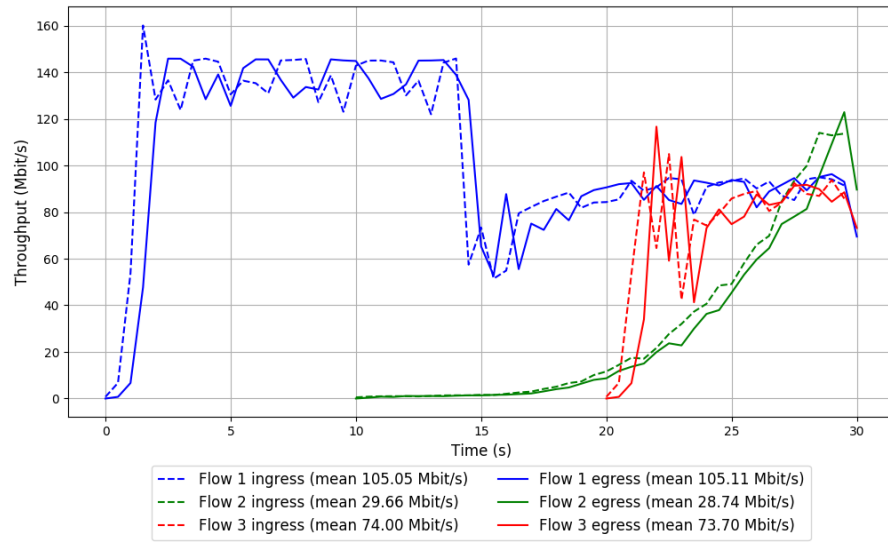


Run 5: Statistics of TCP Cubic

Start at: 2018-06-05 20:54:02
End at: 2018-06-05 20:54:32
Local clock offset: -0.378 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-05 23:26:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.34 Mbit/s
95th percentile per-packet one-way delay: 97.249 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 105.11 Mbit/s
95th percentile per-packet one-way delay: 97.615 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 95.580 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 73.70 Mbit/s
95th percentile per-packet one-way delay: 97.313 ms
Loss rate: 2.13%

Run 5: Report of TCP Cubic — Data Link

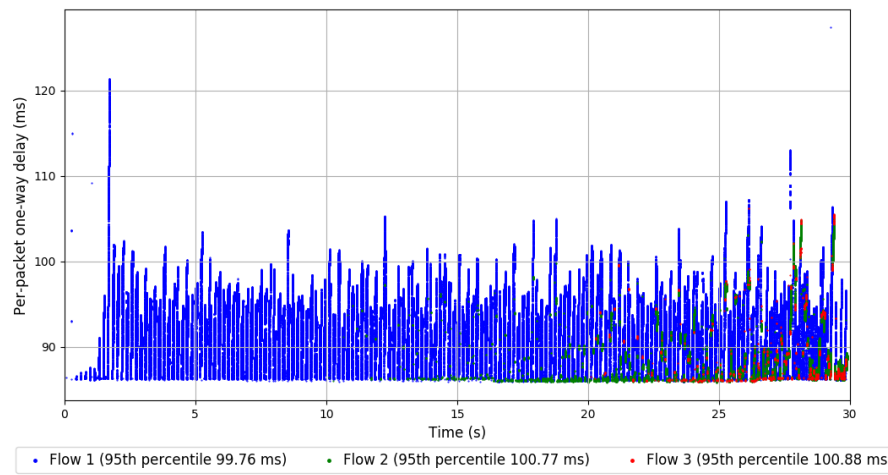
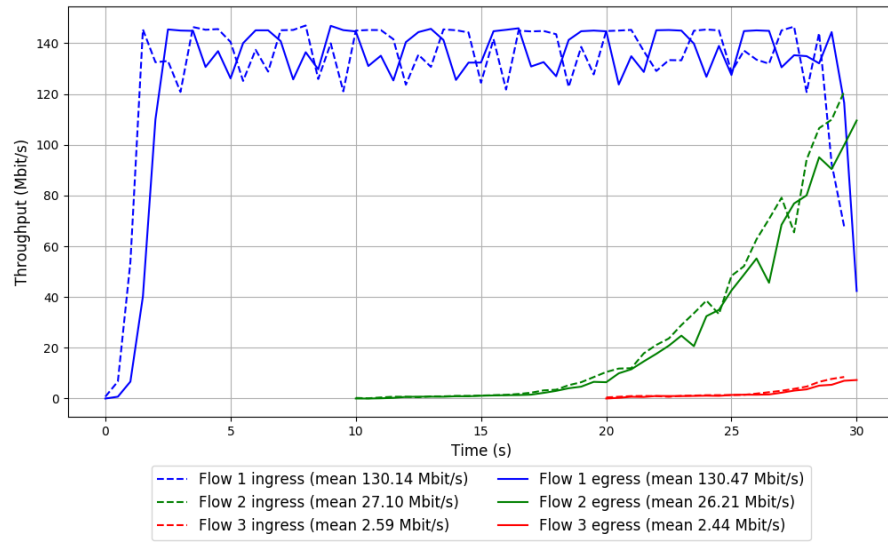


Run 6: Statistics of TCP Cubic

Start at: 2018-06-05 21:16:44
End at: 2018-06-05 21:17:14
Local clock offset: -0.142 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-05 23:26:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.48 Mbit/s
95th percentile per-packet one-way delay: 99.804 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 130.47 Mbit/s
95th percentile per-packet one-way delay: 99.759 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 26.21 Mbit/s
95th percentile per-packet one-way delay: 100.769 ms
Loss rate: 4.09%
-- Flow 3:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 100.881 ms
Loss rate: 7.11%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-05 21:39:20

End at: 2018-06-05 21:39:50

Local clock offset: 0.044 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-05 23:27:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.64 Mbit/s

95th percentile per-packet one-way delay: 128.047 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 126.387 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 121.32 Mbit/s

95th percentile per-packet one-way delay: 128.370 ms

Loss rate: 1.09%

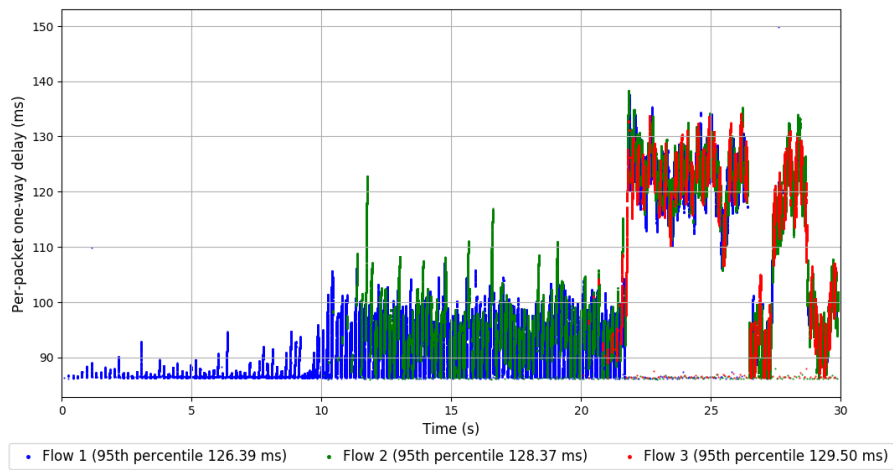
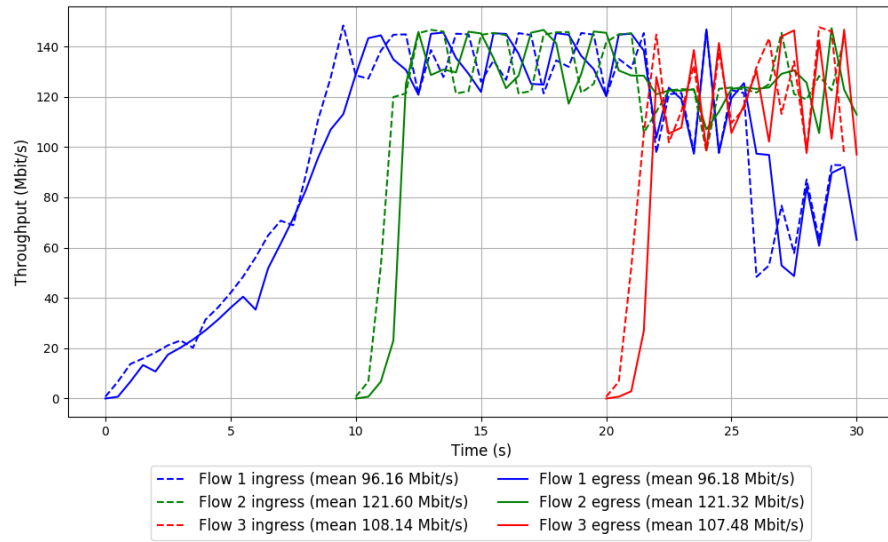
-- Flow 3:

Average throughput: 107.48 Mbit/s

95th percentile per-packet one-way delay: 129.496 ms

Loss rate: 2.28%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-05 22:01:59

End at: 2018-06-05 22:02:29

Local clock offset: -0.295 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-05 23:28:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.24 Mbit/s

95th percentile per-packet one-way delay: 101.653 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 131.75 Mbit/s

95th percentile per-packet one-way delay: 101.503 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 127.99 Mbit/s

95th percentile per-packet one-way delay: 101.885 ms

Loss rate: 1.03%

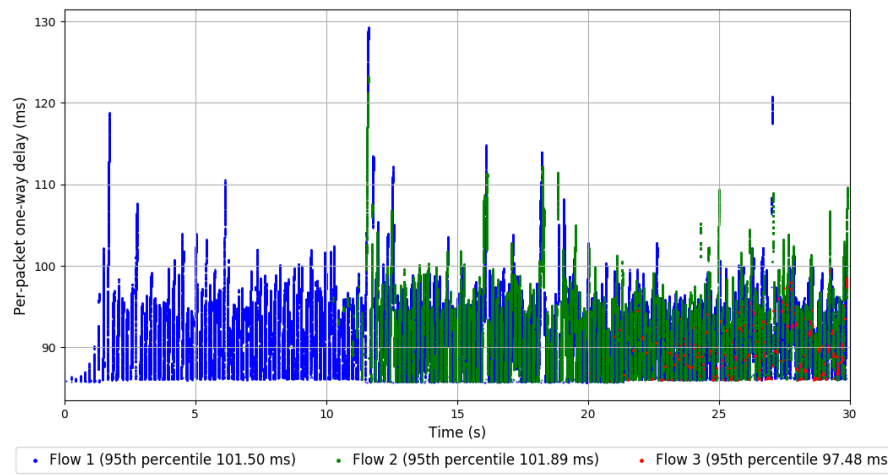
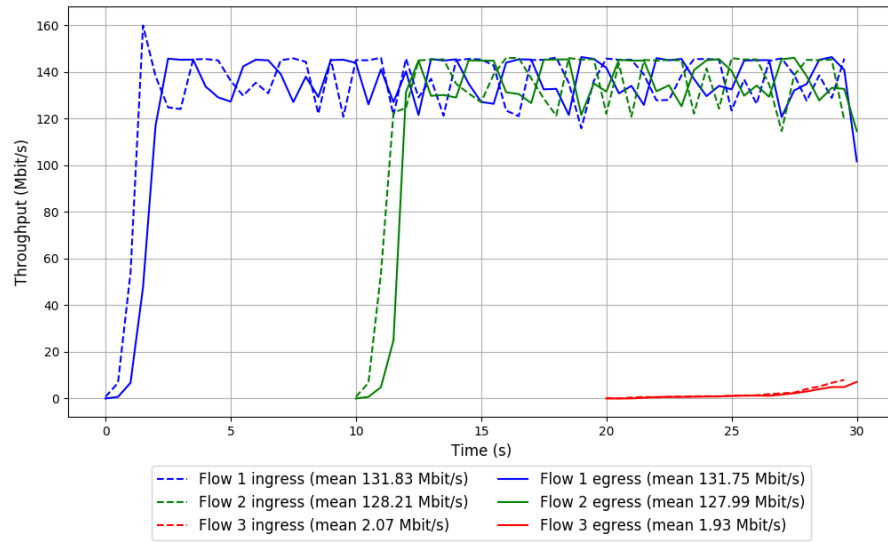
-- Flow 3:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 97.483 ms

Loss rate: 8.06%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-05 22:24:25

End at: 2018-06-05 22:24:55

Local clock offset: -0.196 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-05 23:28:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.44 Mbit/s

95th percentile per-packet one-way delay: 141.679 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 123.42 Mbit/s

95th percentile per-packet one-way delay: 138.769 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 118.71 Mbit/s

95th percentile per-packet one-way delay: 142.585 ms

Loss rate: 1.12%

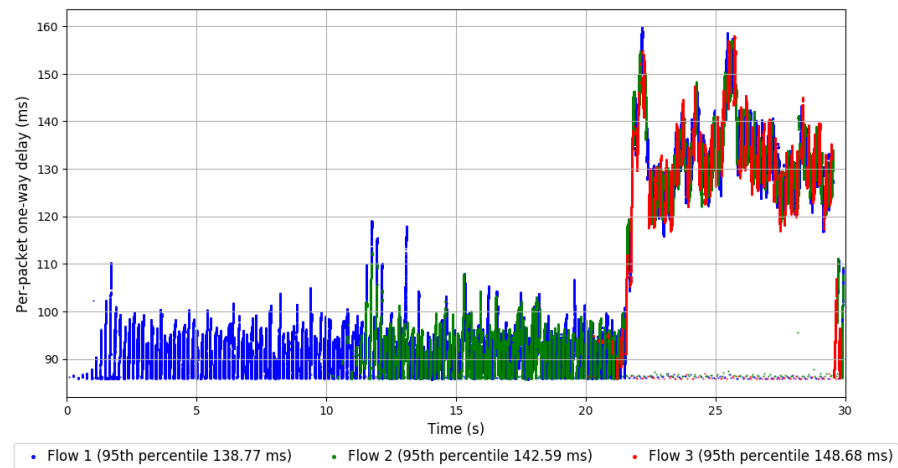
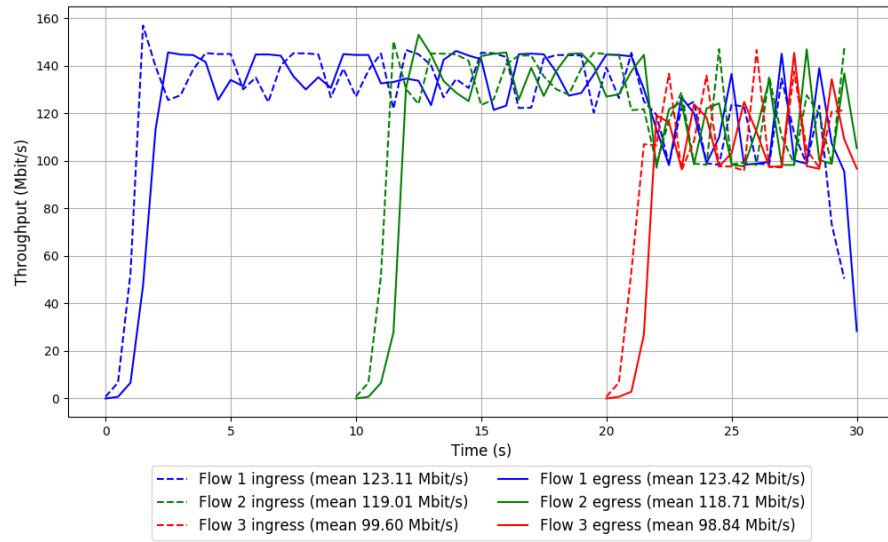
-- Flow 3:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 148.677 ms

Loss rate: 2.41%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-05 22:46:51

End at: 2018-06-05 22:47:21

Local clock offset: 0.175 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-05 23:28:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.25 Mbit/s

95th percentile per-packet one-way delay: 97.881 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 97.856 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 114.66 Mbit/s

95th percentile per-packet one-way delay: 97.872 ms

Loss rate: 1.08%

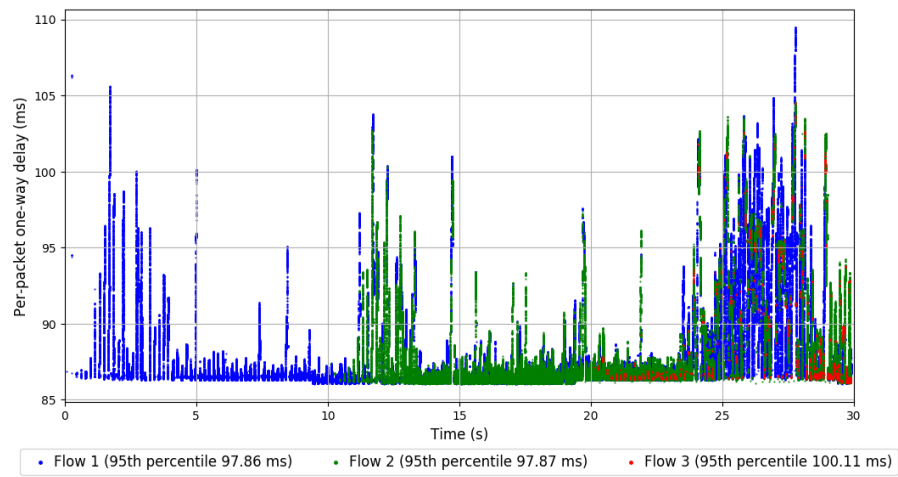
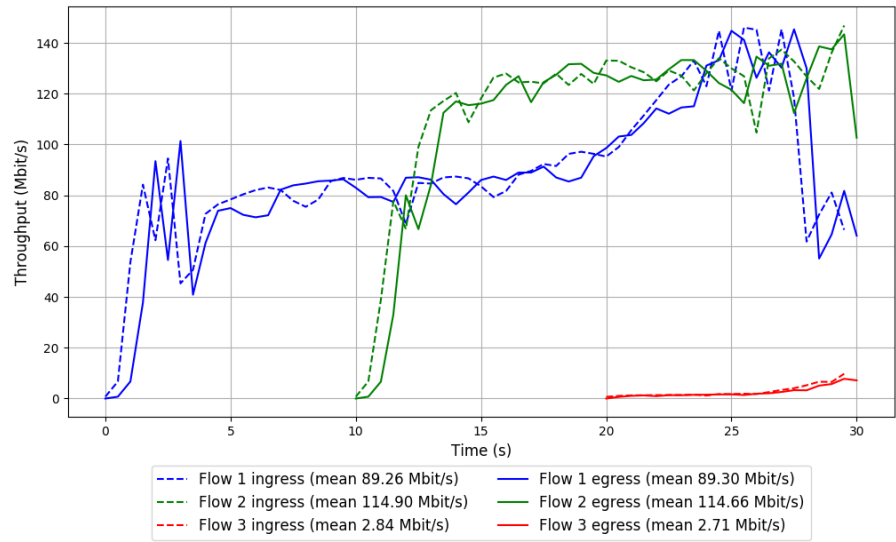
-- Flow 3:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 100.113 ms

Loss rate: 6.25%

Run 10: Report of TCP Cubic — Data Link

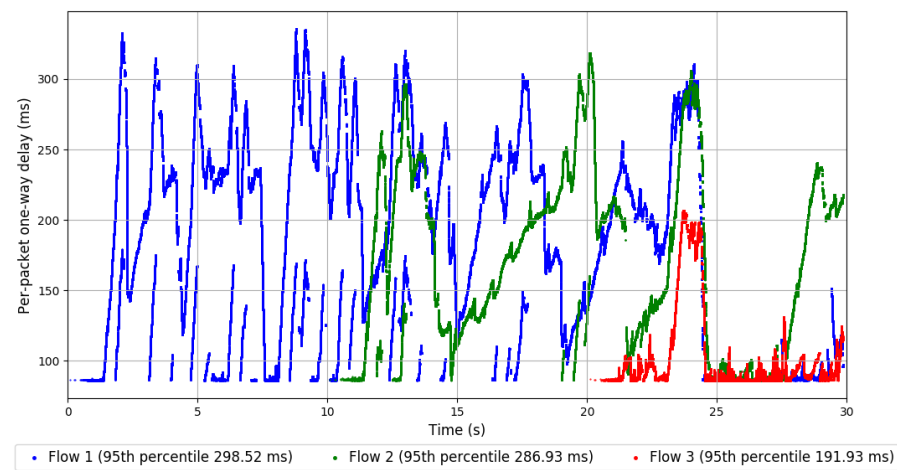
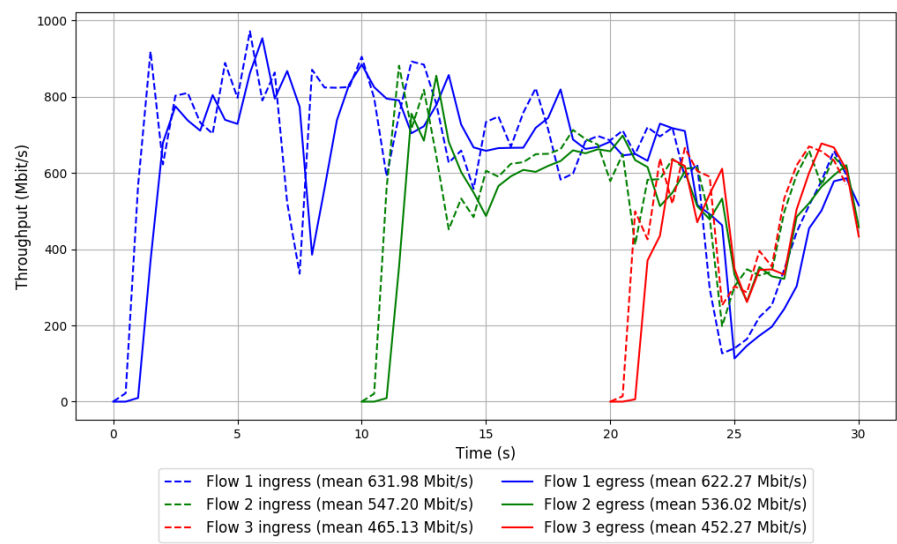


Run 1: Statistics of FillP

Start at: 2018-06-05 19:24:51
End at: 2018-06-05 19:25:21
Local clock offset: 0.334 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-05 23:47:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 1126.07 Mbit/s
95th percentile per-packet one-way delay: 292.817 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 622.27 Mbit/s
95th percentile per-packet one-way delay: 298.517 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 536.02 Mbit/s
95th percentile per-packet one-way delay: 286.928 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 452.27 Mbit/s
95th percentile per-packet one-way delay: 191.932 ms
Loss rate: 4.47%

Run 1: Report of FillP — Data Link

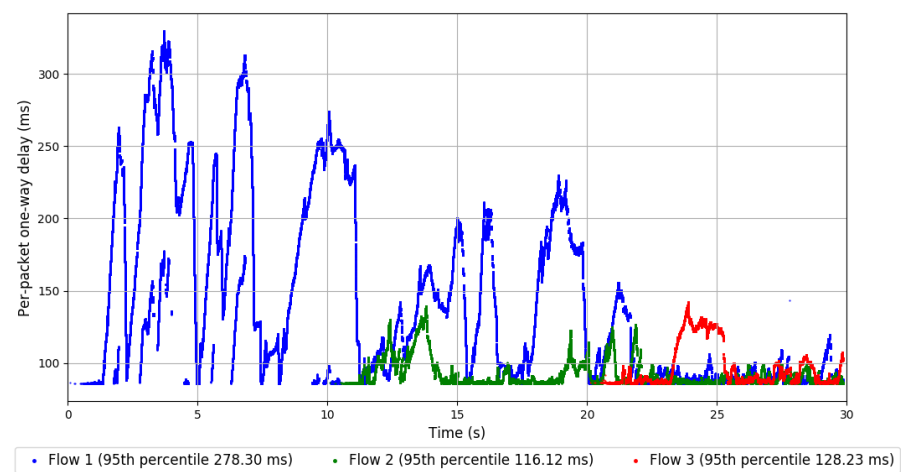
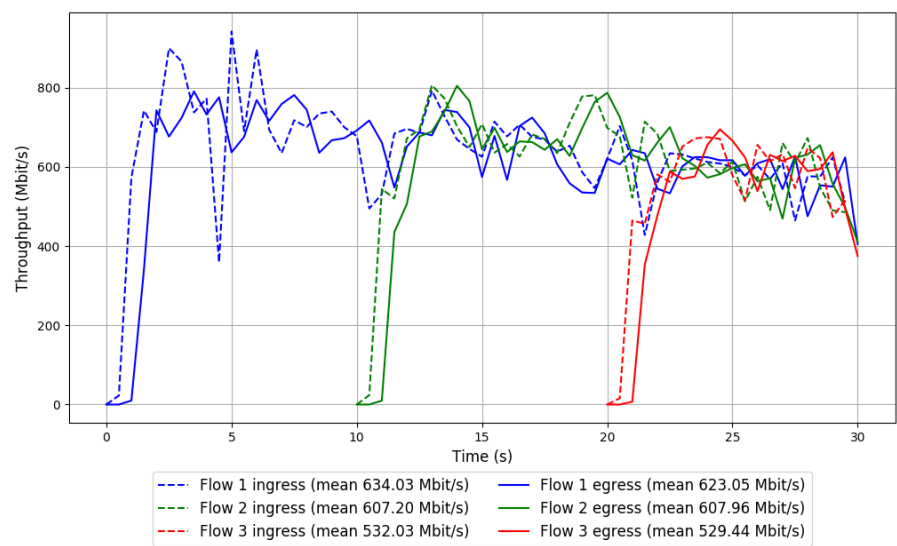


Run 2: Statistics of FillP

Start at: 2018-06-05 19:47:29
End at: 2018-06-05 19:47:59
Local clock offset: 0.127 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-05 23:48:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 1199.83 Mbit/s
95th percentile per-packet one-way delay: 249.971 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 623.05 Mbit/s
95th percentile per-packet one-way delay: 278.300 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 607.96 Mbit/s
95th percentile per-packet one-way delay: 116.119 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 529.44 Mbit/s
95th percentile per-packet one-way delay: 128.227 ms
Loss rate: 2.24%

Run 2: Report of FillP — Data Link

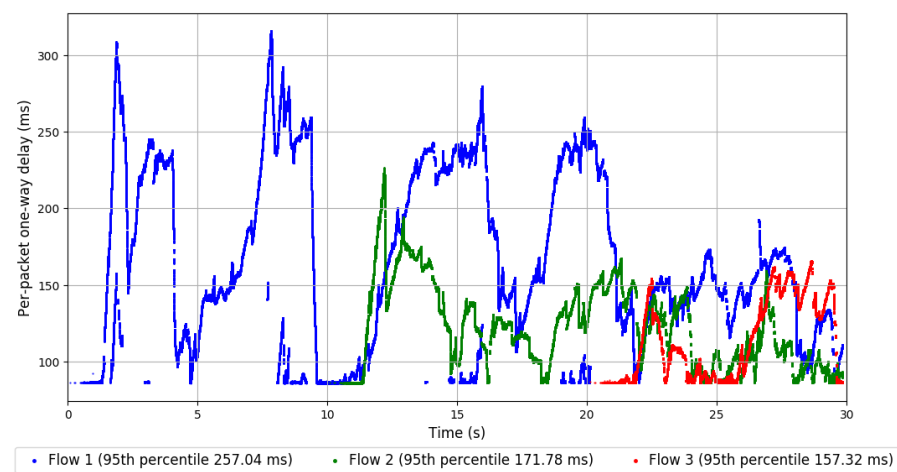
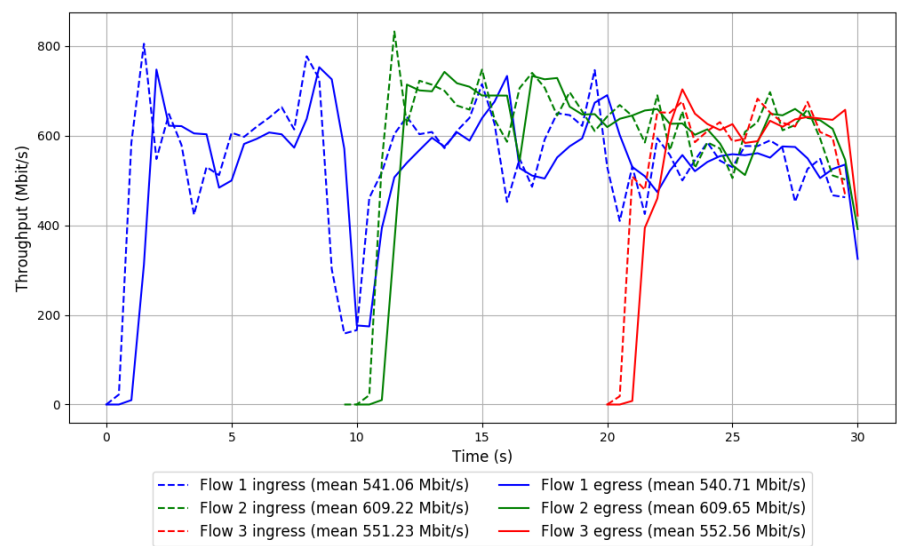


Run 3: Statistics of FillP

Start at: 2018-06-05 20:10:17
End at: 2018-06-05 20:10:47
Local clock offset: -0.085 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-06-05 23:48:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 1126.28 Mbit/s
95th percentile per-packet one-way delay: 242.861 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 540.71 Mbit/s
95th percentile per-packet one-way delay: 257.039 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 609.65 Mbit/s
95th percentile per-packet one-way delay: 171.783 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 552.56 Mbit/s
95th percentile per-packet one-way delay: 157.317 ms
Loss rate: 1.52%

Run 3: Report of FillP — Data Link

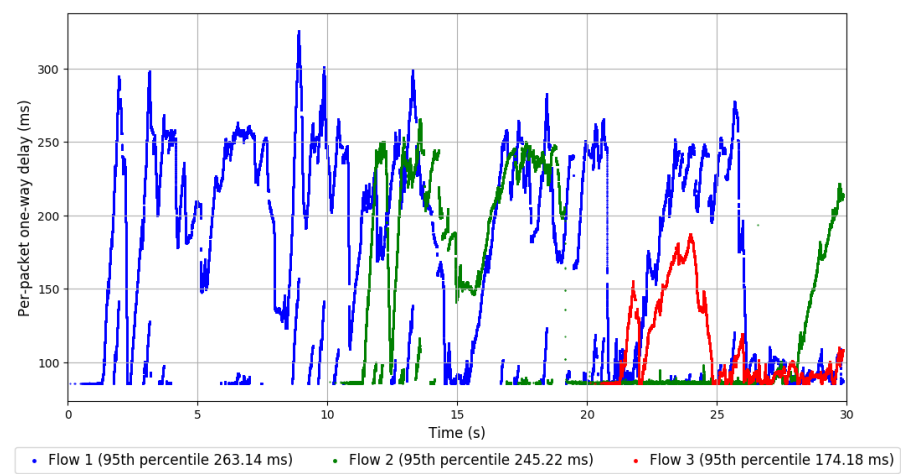
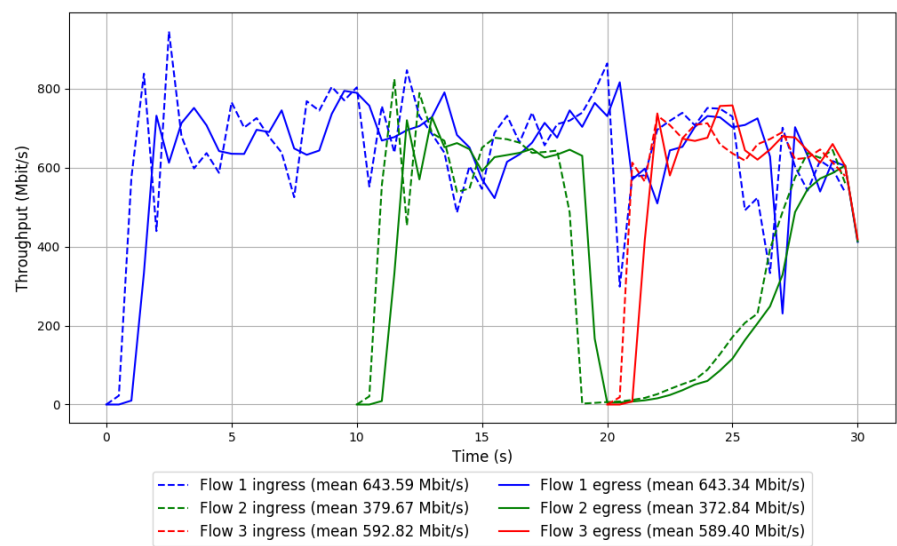


Run 4: Statistics of FillP

Start at: 2018-06-05 20:32:57
End at: 2018-06-05 20:33:27
Local clock offset: -0.327 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-05 23:48:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 1083.63 Mbit/s
95th percentile per-packet one-way delay: 257.037 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 643.34 Mbit/s
95th percentile per-packet one-way delay: 263.140 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 372.84 Mbit/s
95th percentile per-packet one-way delay: 245.217 ms
Loss rate: 2.66%
-- Flow 3:
Average throughput: 589.40 Mbit/s
95th percentile per-packet one-way delay: 174.179 ms
Loss rate: 2.32%

Run 4: Report of FillP — Data Link

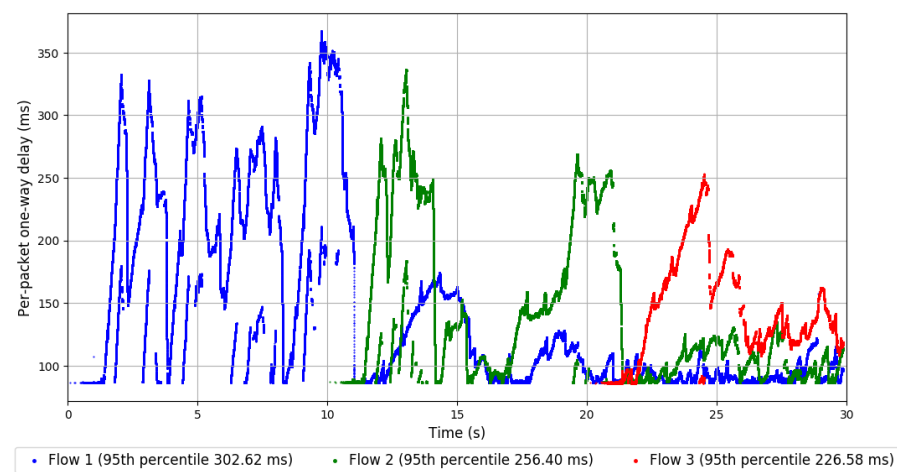
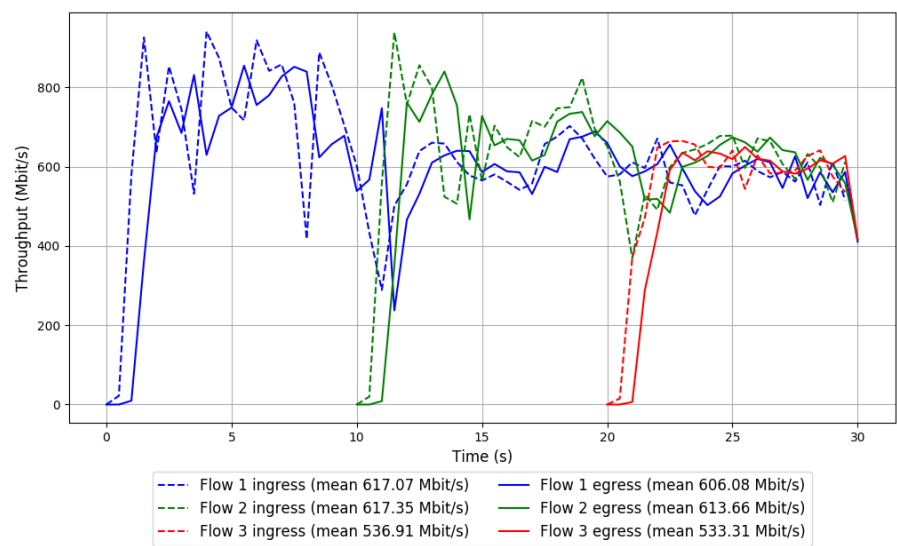


Run 5: Statistics of FillP

Start at: 2018-06-05 20:55:22
End at: 2018-06-05 20:55:52
Local clock offset: -0.171 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-05 23:51:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 1187.66 Mbit/s
95th percentile per-packet one-way delay: 280.435 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 606.08 Mbit/s
95th percentile per-packet one-way delay: 302.625 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 613.66 Mbit/s
95th percentile per-packet one-way delay: 256.399 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 533.31 Mbit/s
95th percentile per-packet one-way delay: 226.577 ms
Loss rate: 2.41%

Run 5: Report of FillP — Data Link

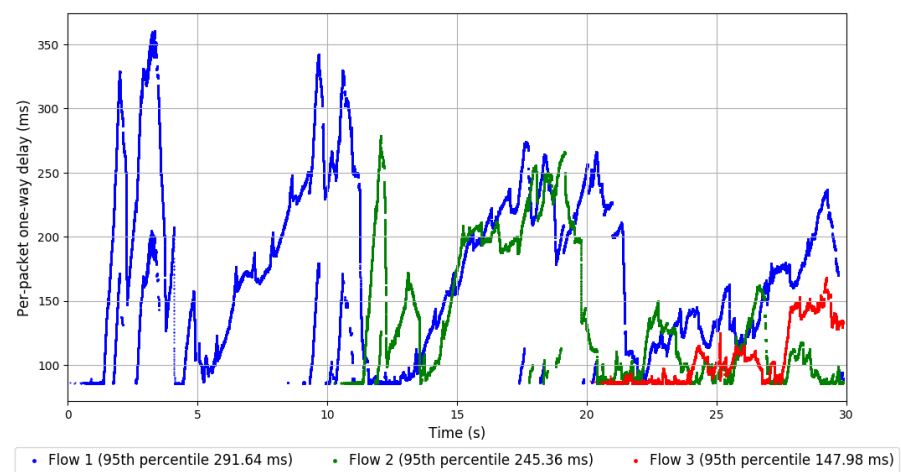
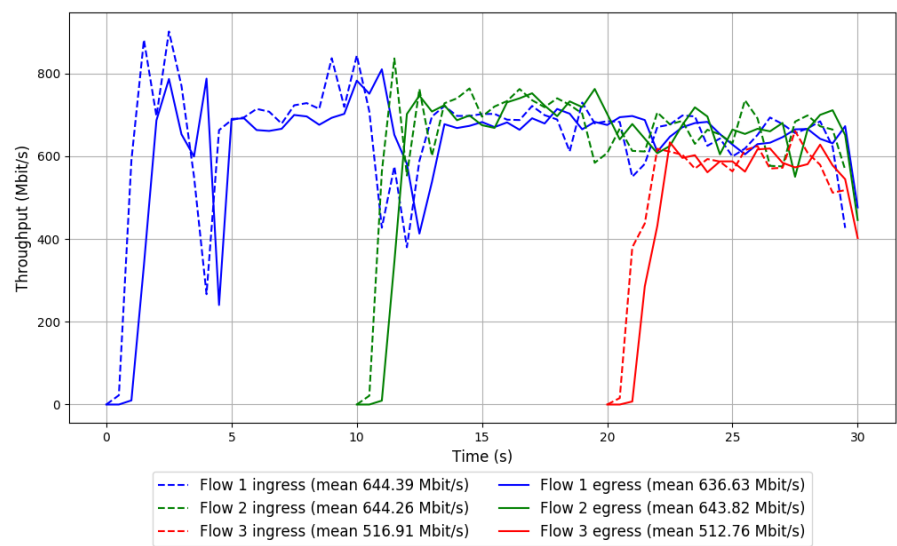


Run 6: Statistics of FillP

Start at: 2018-06-05 21:18:04
End at: 2018-06-05 21:18:34
Local clock offset: -0.235 ms
Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-05 23:53:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 1231.62 Mbit/s
95th percentile per-packet one-way delay: 260.985 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 636.63 Mbit/s
95th percentile per-packet one-way delay: 291.639 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 643.82 Mbit/s
95th percentile per-packet one-way delay: 245.363 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 512.76 Mbit/s
95th percentile per-packet one-way delay: 147.977 ms
Loss rate: 2.52%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-05 21:40:43

End at: 2018-06-05 21:41:13

Local clock offset: 0.024 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-05 23:53:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 1222.04 Mbit/s

95th percentile per-packet one-way delay: 254.361 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 649.19 Mbit/s

95th percentile per-packet one-way delay: 254.974 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 597.42 Mbit/s

95th percentile per-packet one-way delay: 256.194 ms

Loss rate: 1.43%

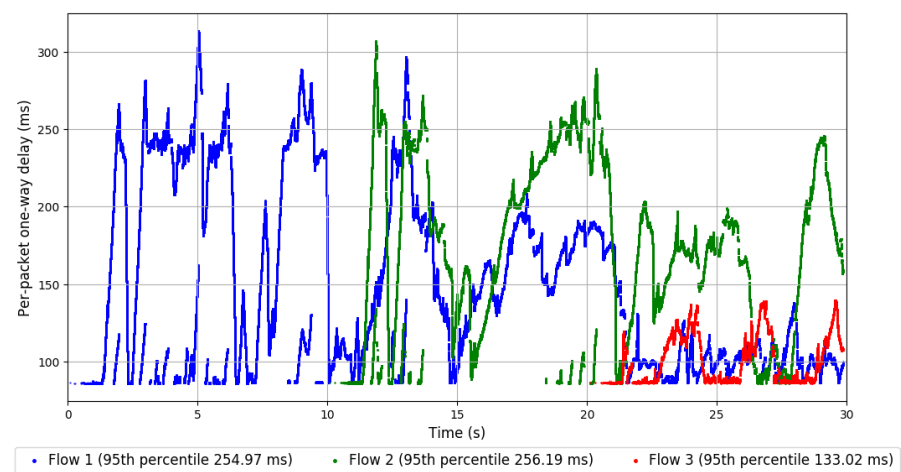
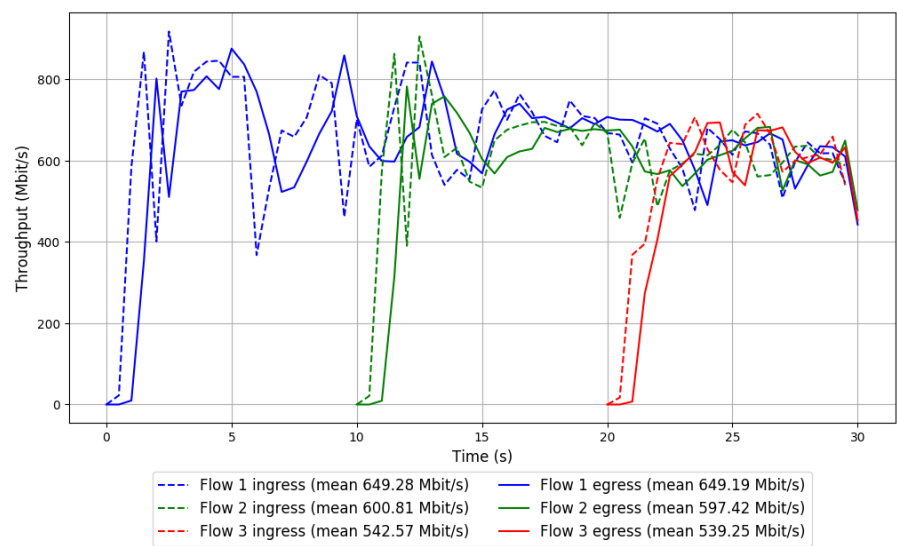
-- Flow 3:

Average throughput: 539.25 Mbit/s

95th percentile per-packet one-way delay: 133.018 ms

Loss rate: 2.35%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-05 22:03:23

End at: 2018-06-05 22:03:53

Local clock offset: -0.022 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-05 23:53:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 654.10 Mbit/s

95th percentile per-packet one-way delay: 271.227 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 113.09 Mbit/s

95th percentile per-packet one-way delay: 284.102 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 628.14 Mbit/s

95th percentile per-packet one-way delay: 261.357 ms

Loss rate: 1.44%

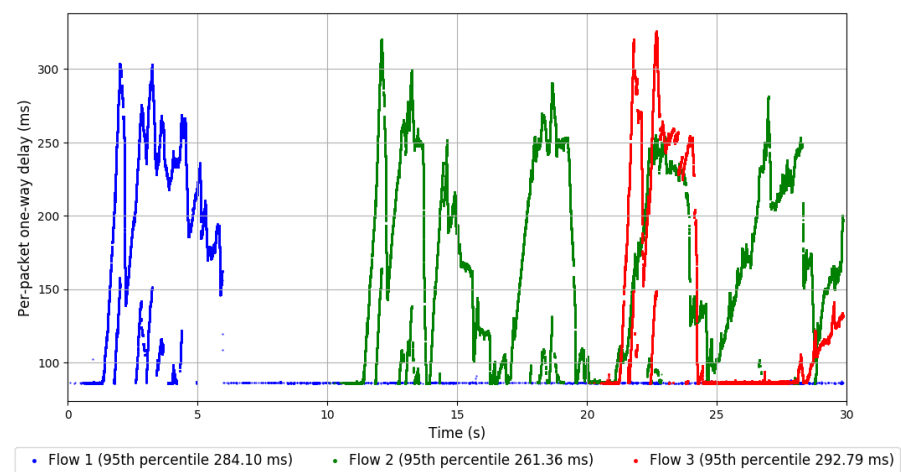
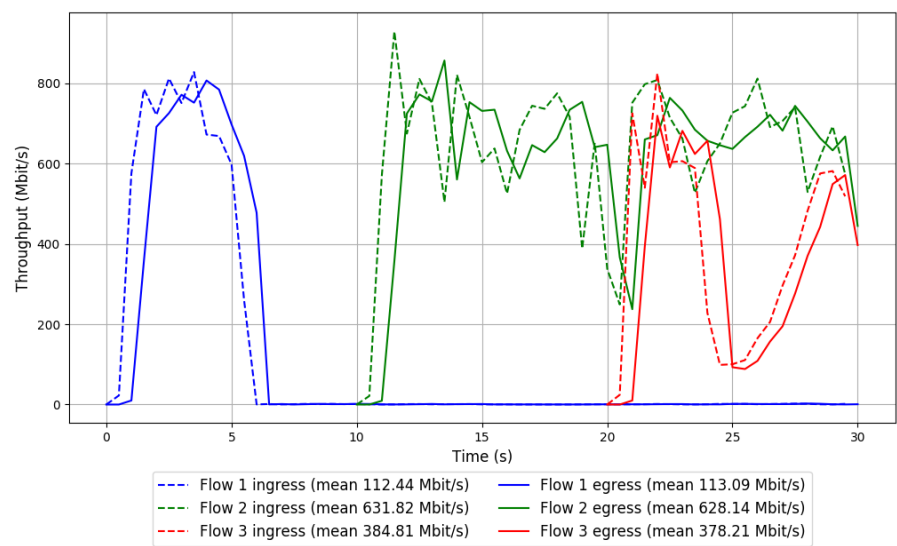
-- Flow 3:

Average throughput: 378.21 Mbit/s

95th percentile per-packet one-way delay: 292.789 ms

Loss rate: 3.43%

Run 8: Report of FillP — Data Link

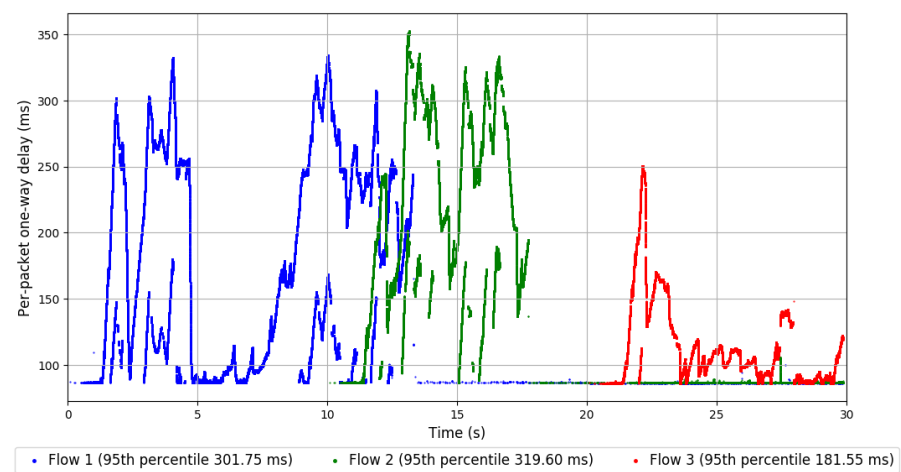
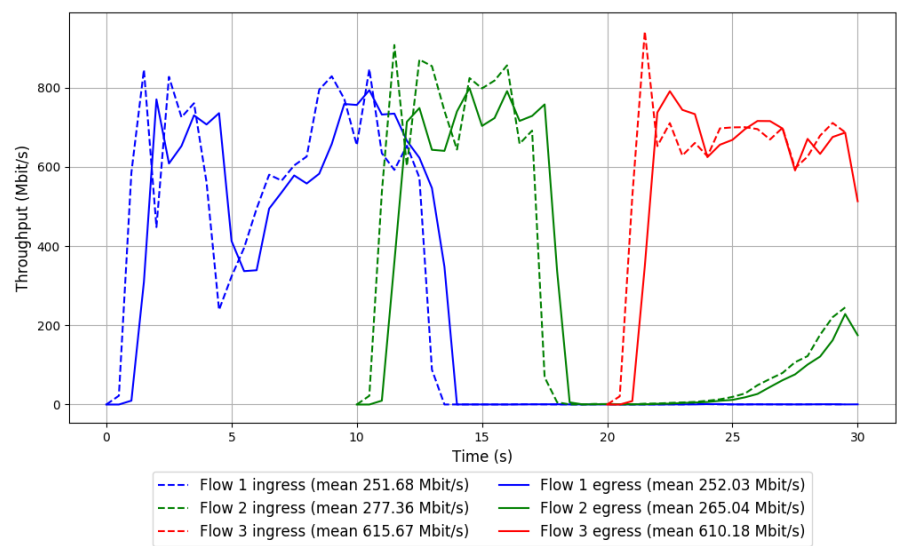


Run 9: Statistics of FillP

Start at: 2018-06-05 22:25:50
End at: 2018-06-05 22:26:20
Local clock offset: 0.037 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-05 23:56:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 627.87 Mbit/s
95th percentile per-packet one-way delay: 305.844 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 252.03 Mbit/s
95th percentile per-packet one-way delay: 301.747 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 265.04 Mbit/s
95th percentile per-packet one-way delay: 319.599 ms
Loss rate: 5.27%
-- Flow 3:
Average throughput: 610.18 Mbit/s
95th percentile per-packet one-way delay: 181.551 ms
Loss rate: 2.63%

Run 9: Report of FillP — Data Link

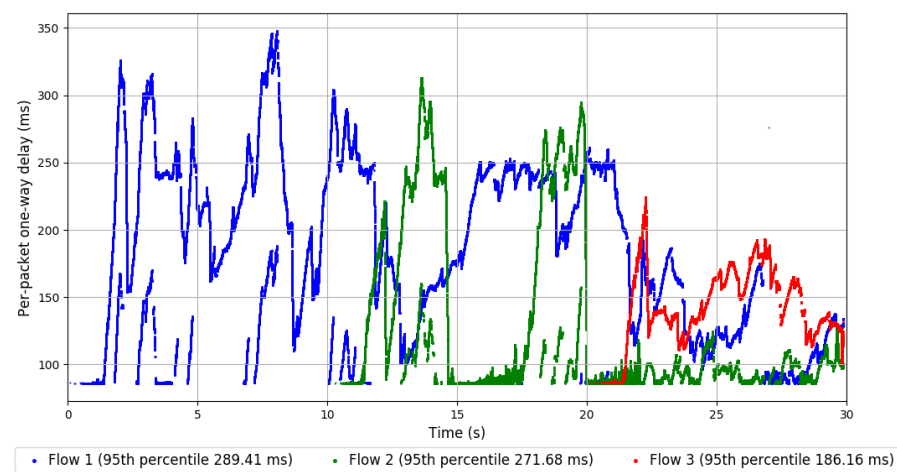
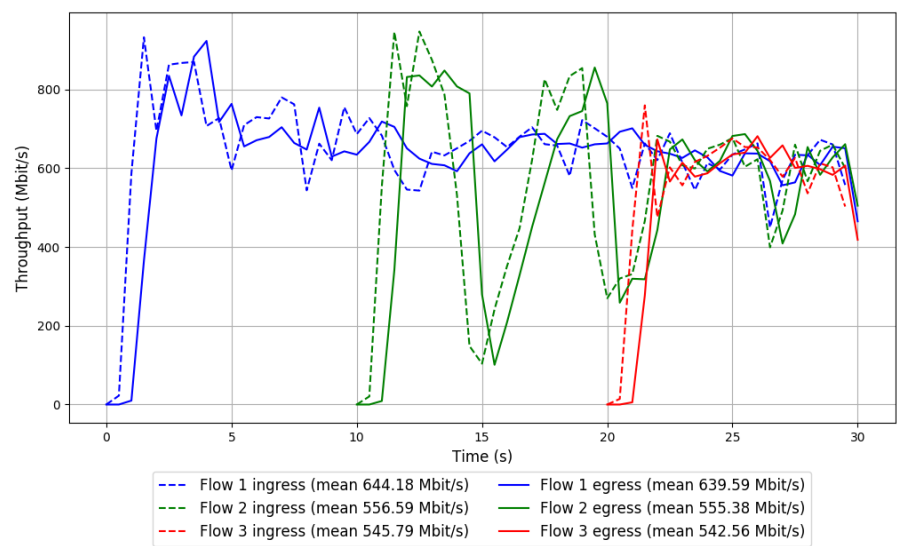


Run 10: Statistics of FillP

Start at: 2018-06-05 22:48:11
End at: 2018-06-05 22:48:41
Local clock offset: -0.302 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-06-06 00:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 1185.31 Mbit/s
95th percentile per-packet one-way delay: 275.034 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 639.59 Mbit/s
95th percentile per-packet one-way delay: 289.414 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 555.38 Mbit/s
95th percentile per-packet one-way delay: 271.680 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 542.56 Mbit/s
95th percentile per-packet one-way delay: 186.160 ms
Loss rate: 2.27%

Run 10: Report of FillP — Data Link

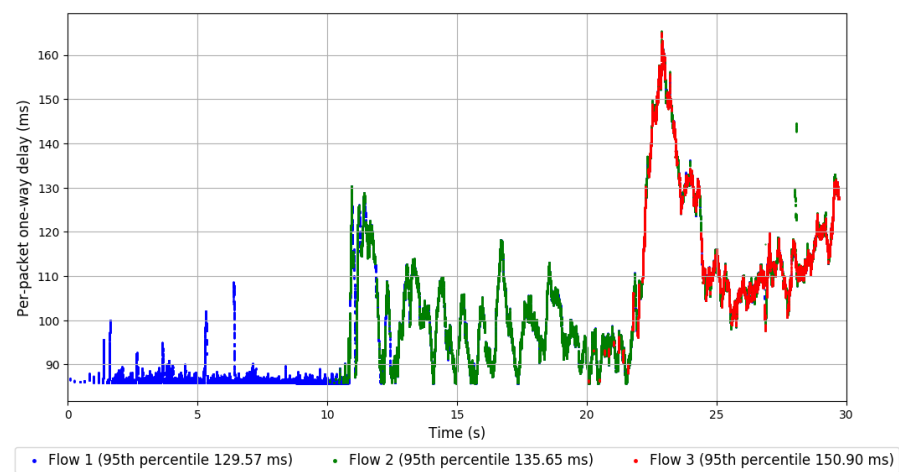
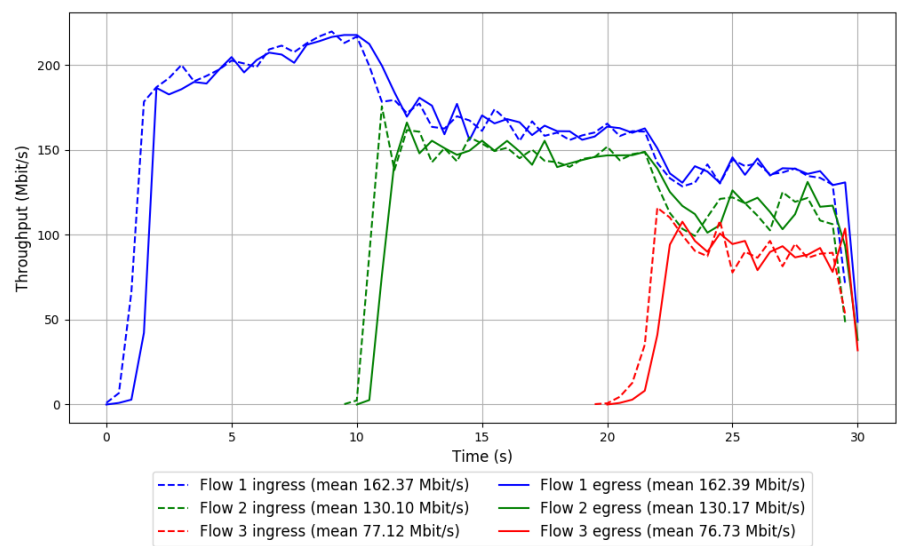


Run 1: Statistics of Indigo

Start at: 2018-06-05 19:16:11
End at: 2018-06-05 19:16:41
Local clock offset: 0.129 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-06 00:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.42 Mbit/s
95th percentile per-packet one-way delay: 134.659 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 162.39 Mbit/s
95th percentile per-packet one-way delay: 129.566 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 130.17 Mbit/s
95th percentile per-packet one-way delay: 135.649 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 150.895 ms
Loss rate: 2.26%

Run 1: Report of Indigo — Data Link

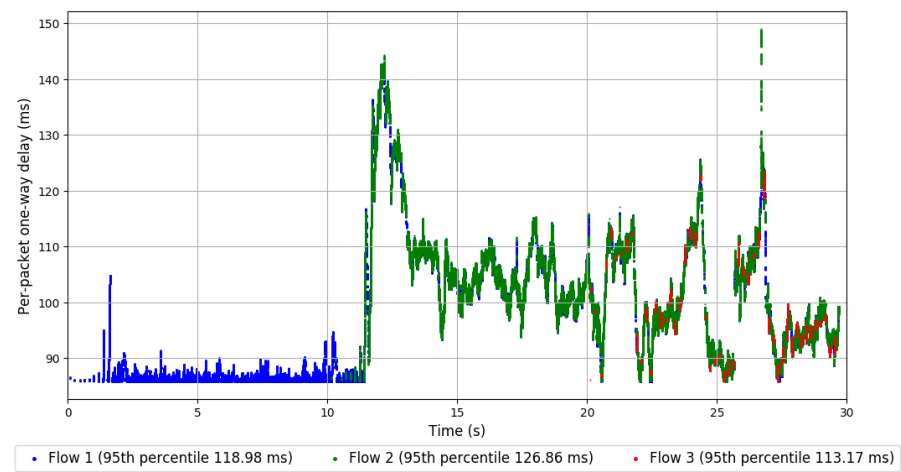
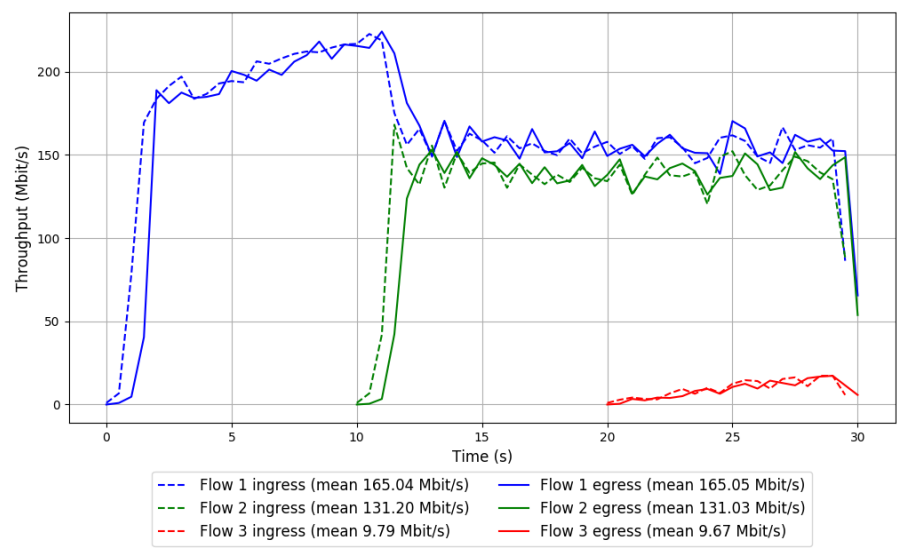


Run 2: Statistics of Indigo

Start at: 2018-06-05 19:38:52
End at: 2018-06-05 19:39:22
Local clock offset: 0.111 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-06 00:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.67 Mbit/s
95th percentile per-packet one-way delay: 122.168 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 165.05 Mbit/s
95th percentile per-packet one-way delay: 118.978 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 131.03 Mbit/s
95th percentile per-packet one-way delay: 126.857 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 113.166 ms
Loss rate: 3.06%

Run 2: Report of Indigo — Data Link

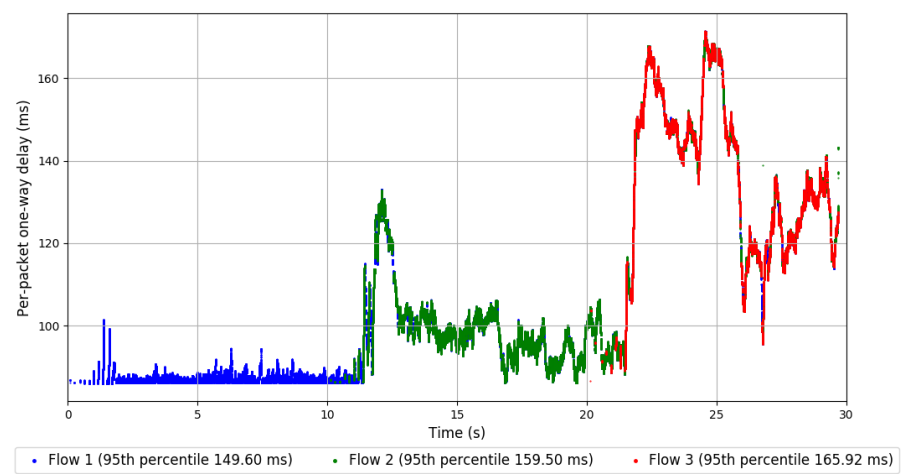
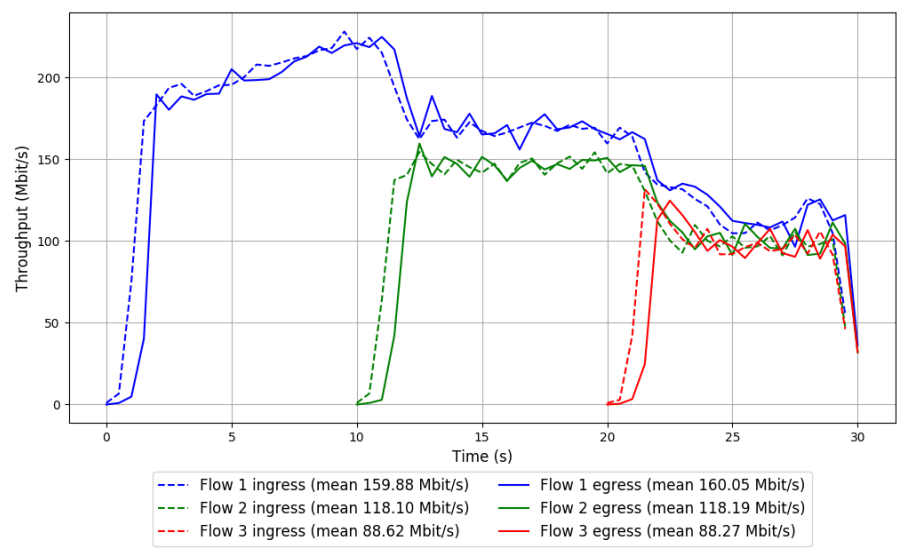


Run 3: Statistics of Indigo

Start at: 2018-06-05 20:01:38
End at: 2018-06-05 20:02:08
Local clock offset: -0.115 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-06-06 00:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 266.66 Mbit/s
95th percentile per-packet one-way delay: 158.754 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 160.05 Mbit/s
95th percentile per-packet one-way delay: 149.603 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 118.19 Mbit/s
95th percentile per-packet one-way delay: 159.501 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 165.918 ms
Loss rate: 2.16%

Run 3: Report of Indigo — Data Link

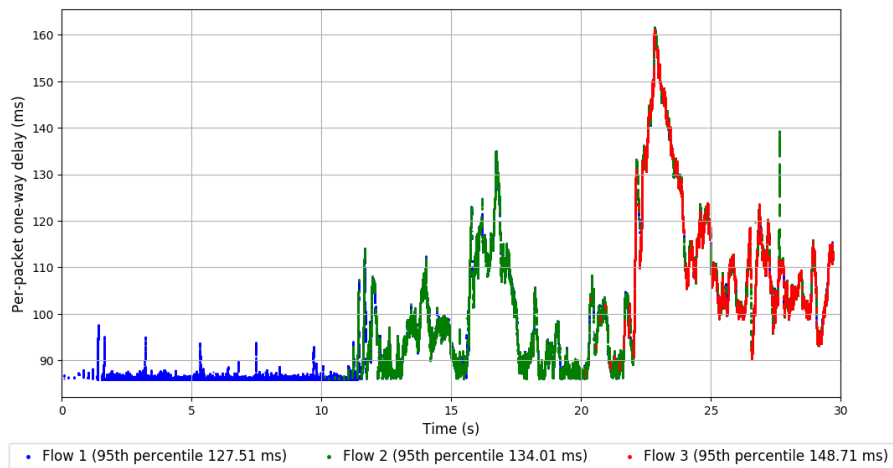
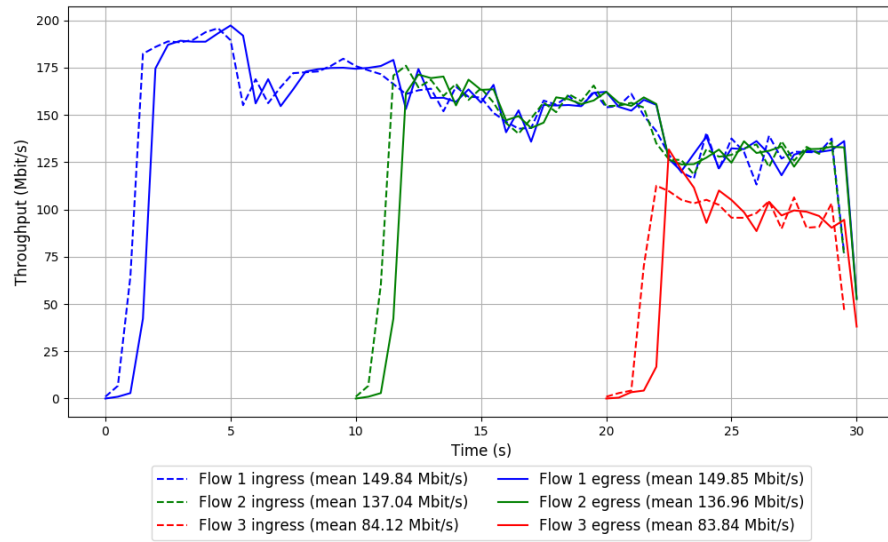


Run 4: Statistics of Indigo

Start at: 2018-06-05 20:24:19
End at: 2018-06-05 20:24:49
Local clock offset: -0.192 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-06-06 00:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.49 Mbit/s
95th percentile per-packet one-way delay: 133.700 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 149.85 Mbit/s
95th percentile per-packet one-way delay: 127.509 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 136.96 Mbit/s
95th percentile per-packet one-way delay: 134.013 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 148.708 ms
Loss rate: 2.12%

Run 4: Report of Indigo — Data Link

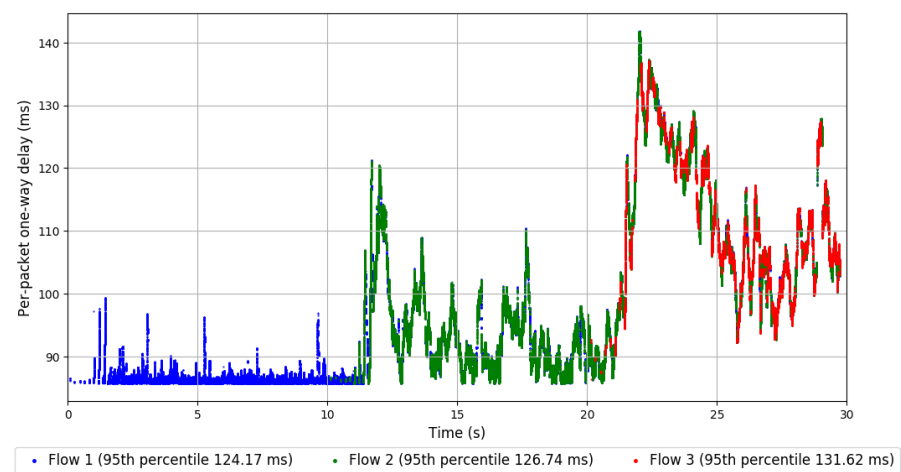
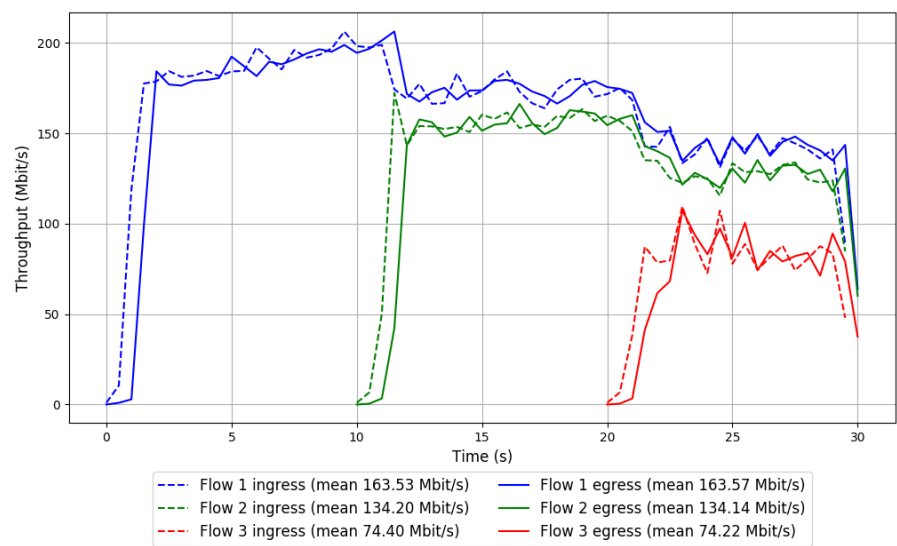


Run 5: Statistics of Indigo

Start at: 2018-06-05 20:46:49
End at: 2018-06-05 20:47:19
Local clock offset: -0.339 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-06 00:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 276.33 Mbit/s
95th percentile per-packet one-way delay: 126.145 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 163.57 Mbit/s
95th percentile per-packet one-way delay: 124.168 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 134.14 Mbit/s
95th percentile per-packet one-way delay: 126.740 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 131.624 ms
Loss rate: 2.01%

Run 5: Report of Indigo — Data Link

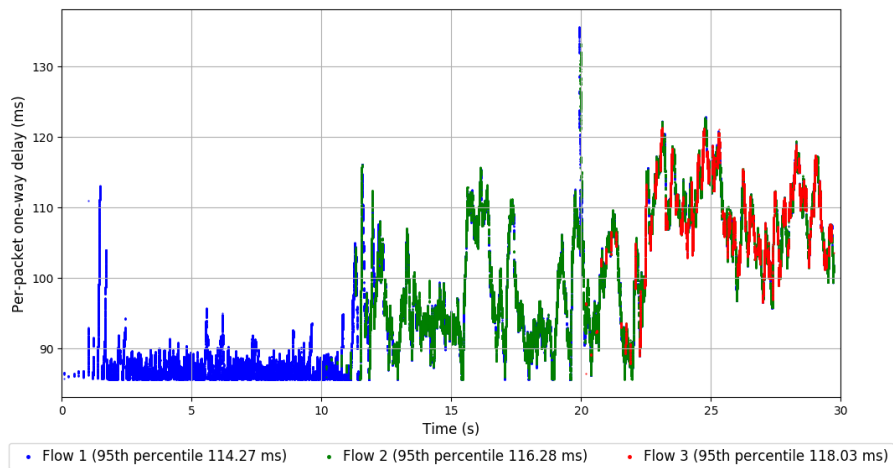
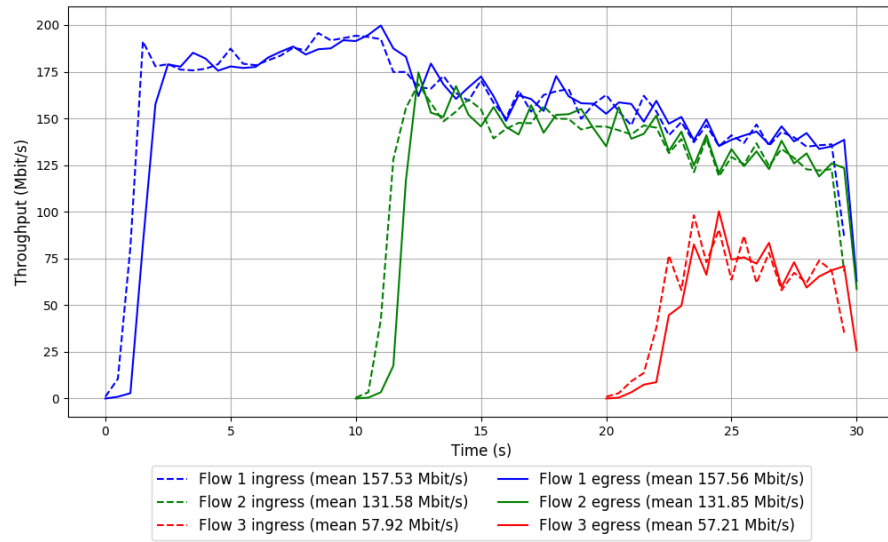


Run 6: Statistics of Indigo

Start at: 2018-06-05 21:09:29
End at: 2018-06-05 21:09:59
Local clock offset: -0.394 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-06 00:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 262.80 Mbit/s
95th percentile per-packet one-way delay: 115.769 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 157.56 Mbit/s
95th percentile per-packet one-way delay: 114.267 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 131.85 Mbit/s
95th percentile per-packet one-way delay: 116.275 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 118.026 ms
Loss rate: 2.21%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-05 21:32:03

End at: 2018-06-05 21:32:33

Local clock offset: 0.097 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.45 Mbit/s

95th percentile per-packet one-way delay: 119.173 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 153.82 Mbit/s

95th percentile per-packet one-way delay: 118.082 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 131.45 Mbit/s

95th percentile per-packet one-way delay: 121.173 ms

Loss rate: 1.01%

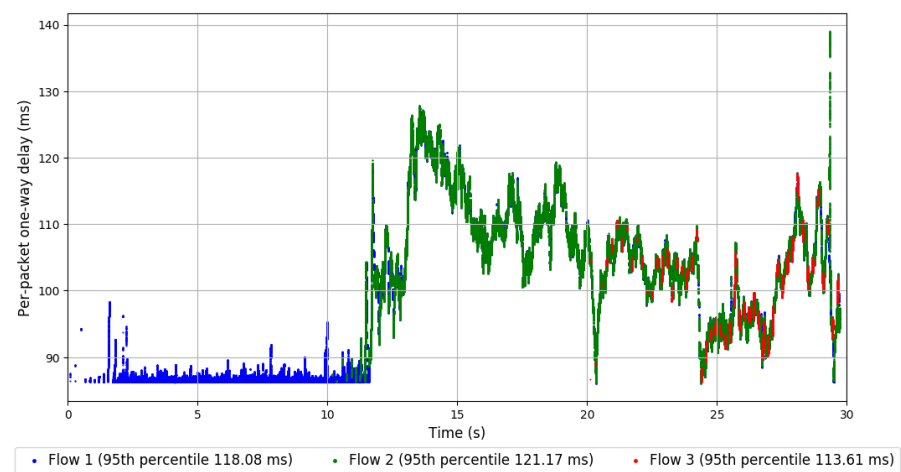
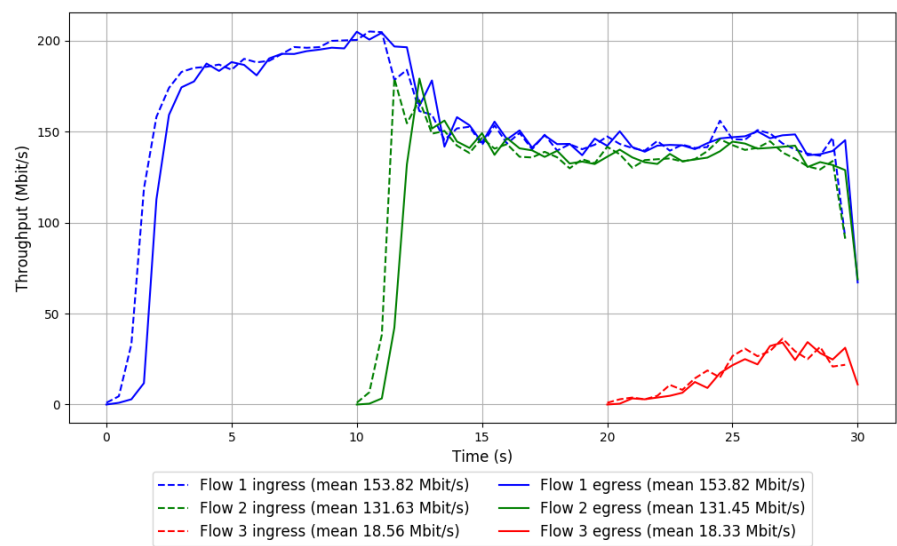
-- Flow 3:

Average throughput: 18.33 Mbit/s

95th percentile per-packet one-way delay: 113.607 ms

Loss rate: 3.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-05 21:54:43

End at: 2018-06-05 21:55:13

Local clock offset: -0.091 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.64 Mbit/s

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

Loss rate: 0.70%

-- Flow 1:

Average throughput: 169.29 Mbit/s

95th percentile per-packet one-way delay: 120.679 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 127.37 Mbit/s

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

Loss rate: 0.59%

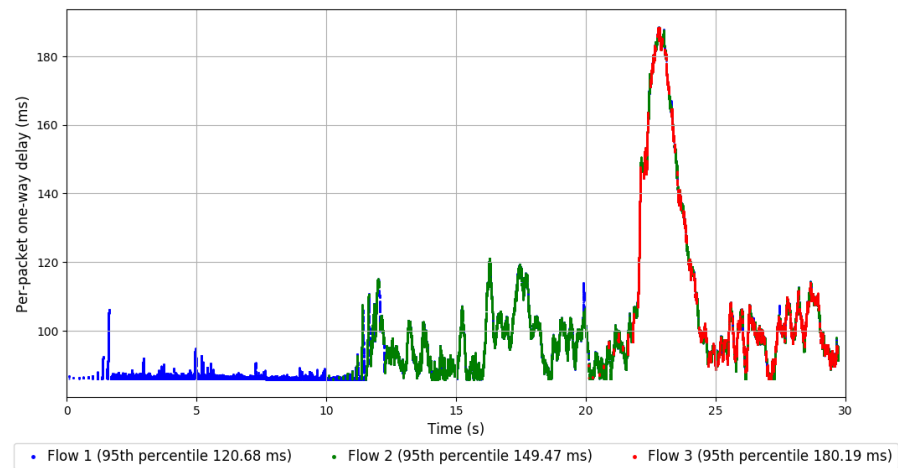
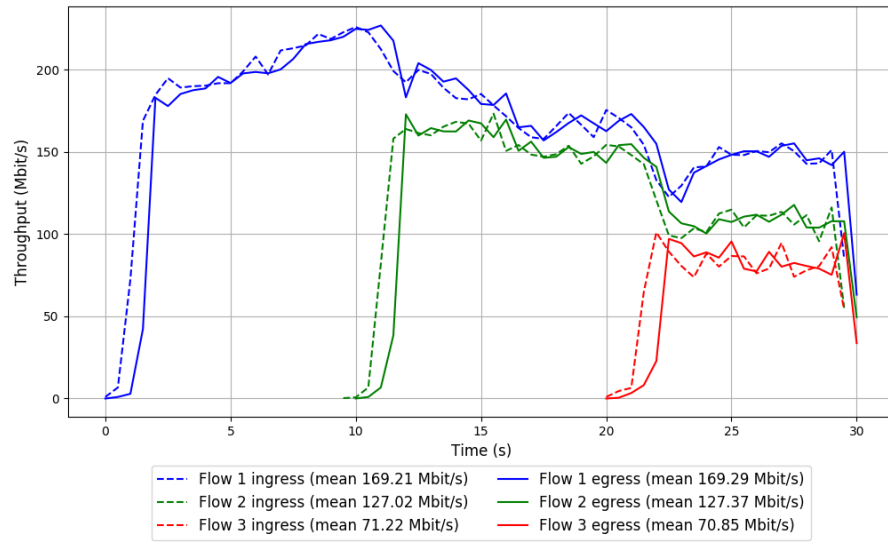
-- Flow 3:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 180.194 ms

Loss rate: 2.29%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-05 22:17:10

End at: 2018-06-05 22:17:40

Local clock offset: -0.418 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.96 Mbit/s

95th percentile per-packet one-way delay: 154.059 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 163.85 Mbit/s

95th percentile per-packet one-way delay: 149.433 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 127.33 Mbit/s

95th percentile per-packet one-way delay: 154.383 ms

Loss rate: 0.83%

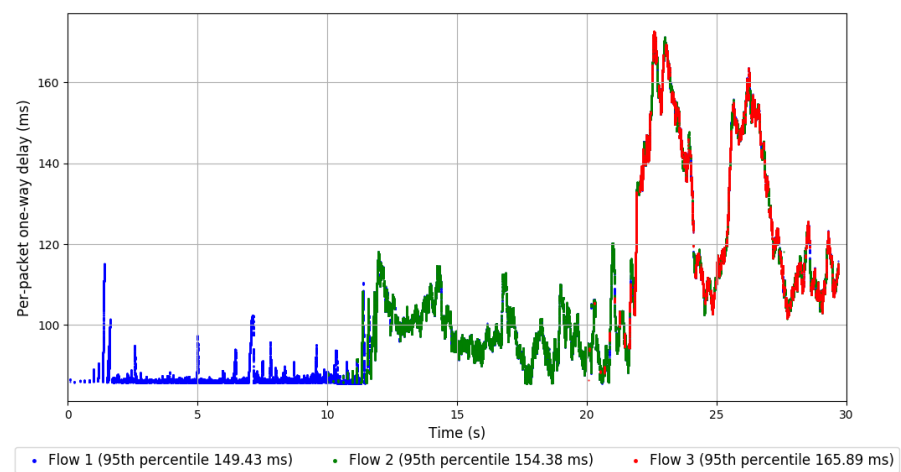
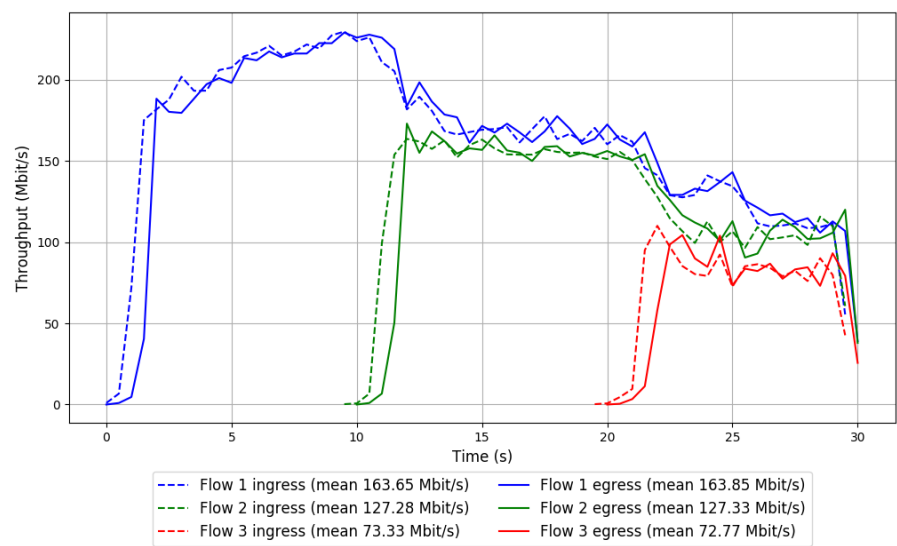
-- Flow 3:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 165.892 ms

Loss rate: 2.47%

Run 9: Report of Indigo — Data Link

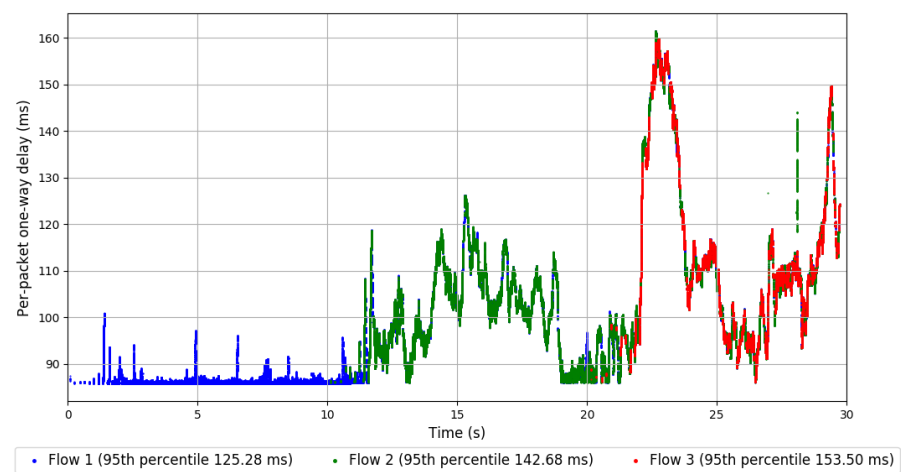
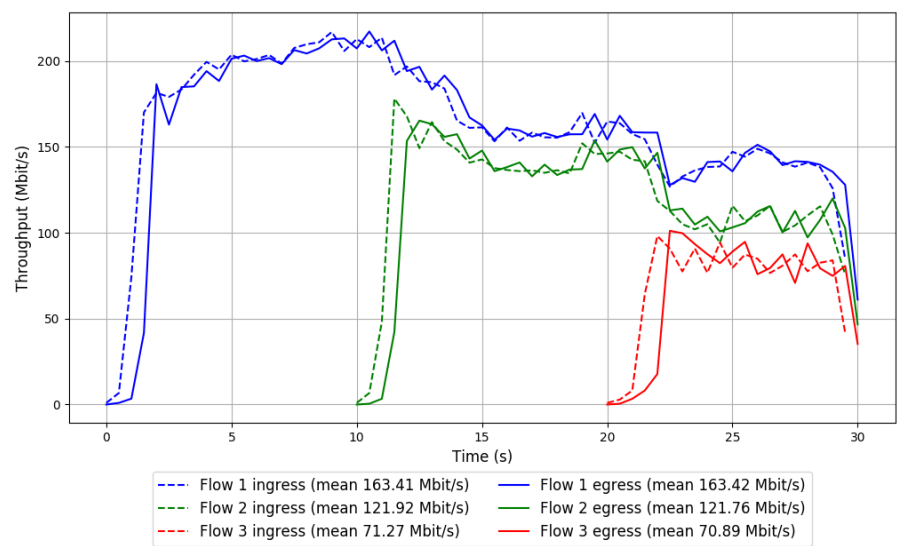


Run 10: Statistics of Indigo

Start at: 2018-06-05 22:39:39
End at: 2018-06-05 22:40:09
Local clock offset: -0.114 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 266.82 Mbit/s
95th percentile per-packet one-way delay: 141.055 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 163.42 Mbit/s
95th percentile per-packet one-way delay: 125.282 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 121.76 Mbit/s
95th percentile per-packet one-way delay: 142.675 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 70.89 Mbit/s
95th percentile per-packet one-way delay: 153.495 ms
Loss rate: 2.29%

Run 10: Report of Indigo — Data Link

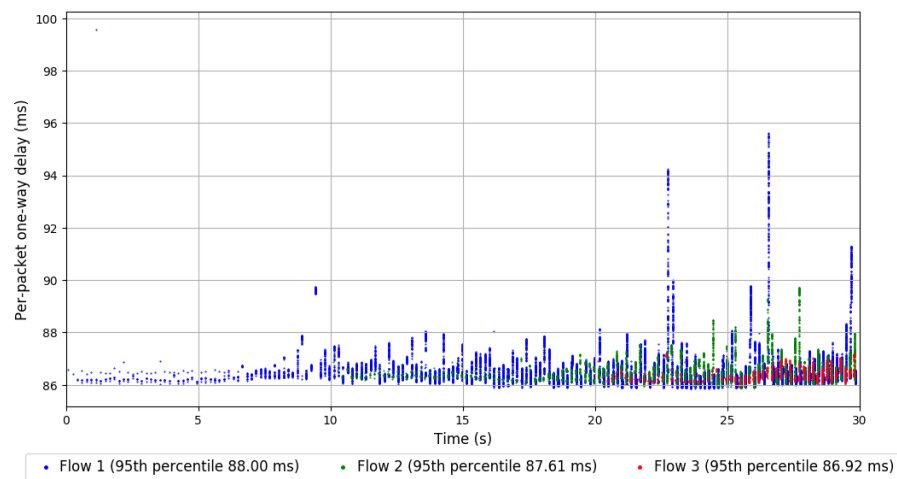
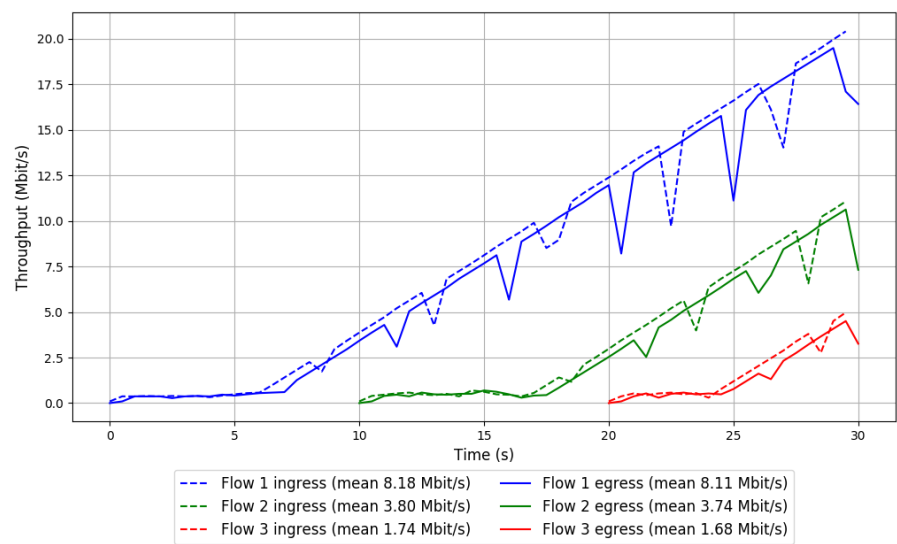


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-05 19:29:14
End at: 2018-06-05 19:29:44
Local clock offset: 0.268 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-06 00:13:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 87.820 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 8.11 Mbit/s
95th percentile per-packet one-way delay: 87.999 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 87.608 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 86.921 ms
Loss rate: 5.00%
```

Run 1: Report of LEDBAT — Data Link

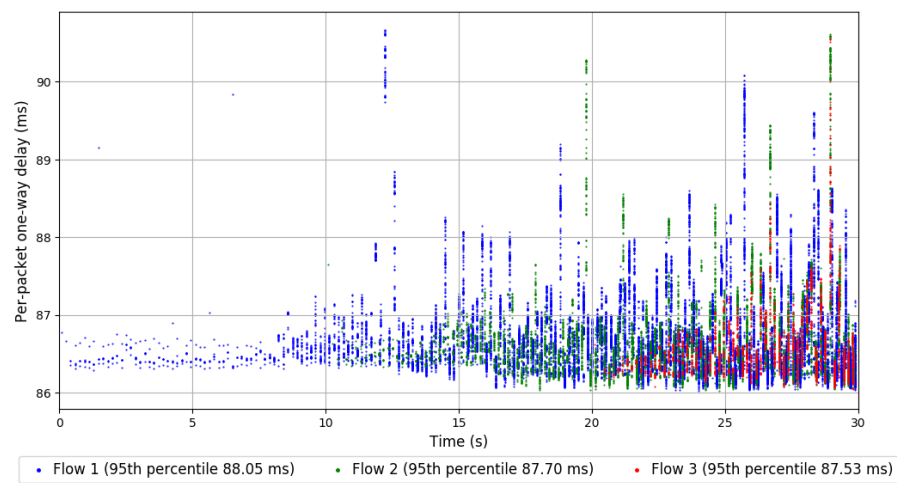
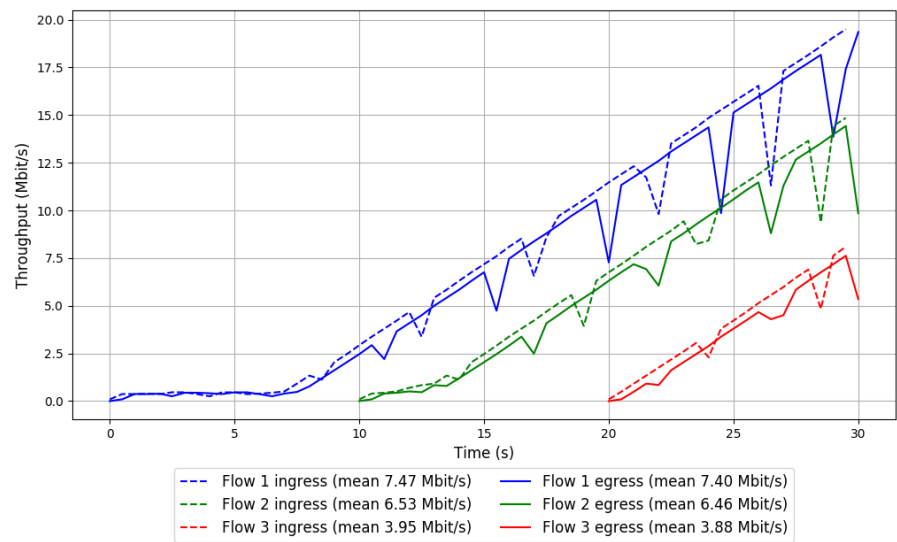


Run 2: Statistics of LEDBAT

Start at: 2018-06-05 19:51:54
End at: 2018-06-05 19:52:24
Local clock offset: 0.206 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 87.924 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 88.045 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 87.698 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 87.531 ms
Loss rate: 3.52%

Run 2: Report of LEDBAT — Data Link

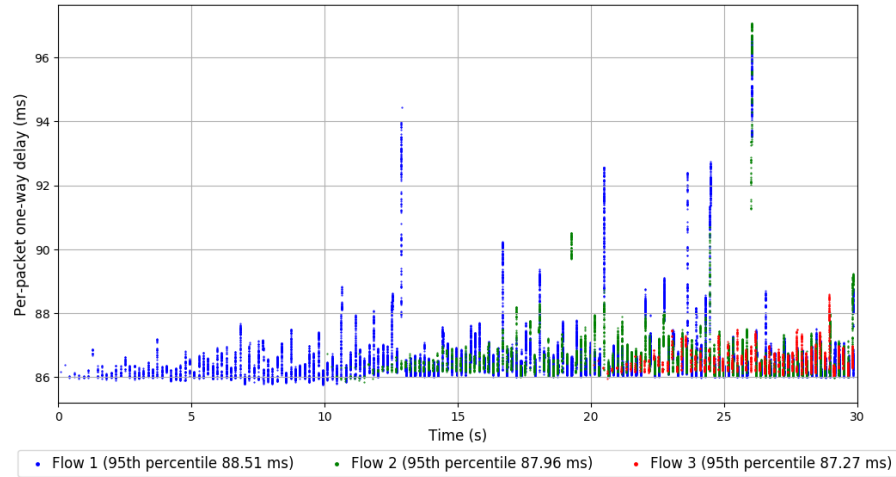
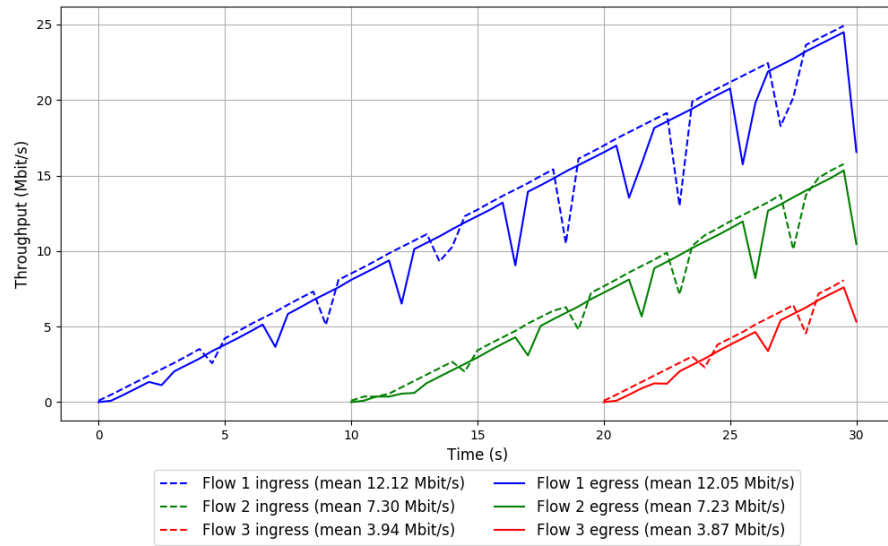


Run 3: Statistics of LEDBAT

Start at: 2018-06-05 20:14:39
End at: 2018-06-05 20:15:09
Local clock offset: -0.218 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.11 Mbit/s
95th percentile per-packet one-way delay: 88.278 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 88.507 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 87.960 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.265 ms
Loss rate: 3.52%

Run 3: Report of LEDBAT — Data Link

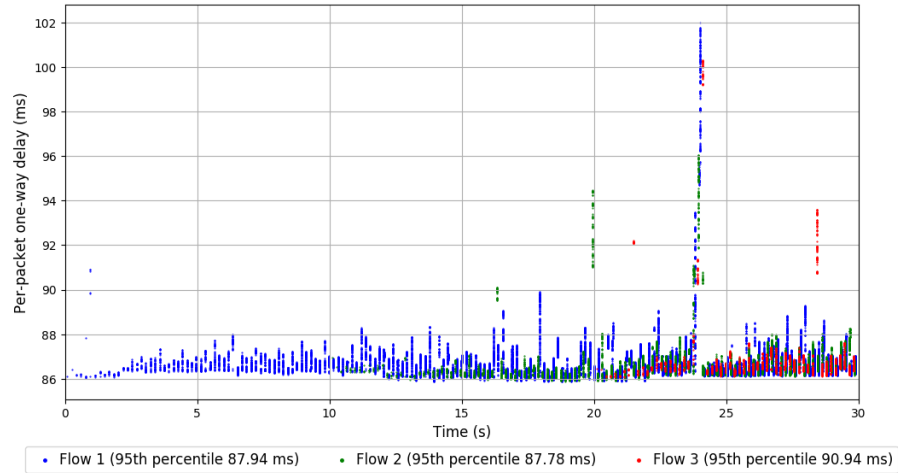
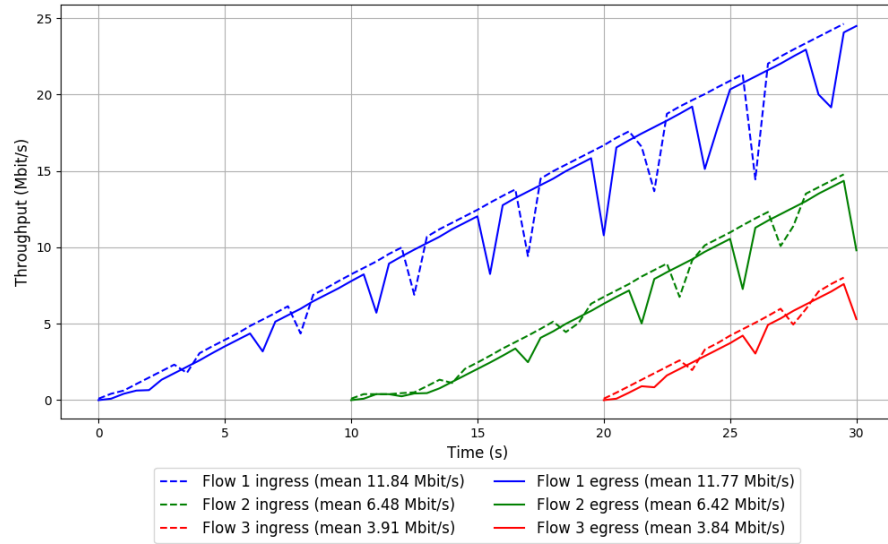


Run 4: Statistics of LEDBAT

Start at: 2018-06-05 20:37:18
End at: 2018-06-05 20:37:48
Local clock offset: -0.203 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.27 Mbit/s
95th percentile per-packet one-way delay: 87.922 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 87.943 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 6.42 Mbit/s
95th percentile per-packet one-way delay: 87.776 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 90.935 ms
Loss rate: 3.51%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-05 20:59:48

End at: 2018-06-05 21:00:18

Local clock offset: -0.088 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.48 Mbit/s

95th percentile per-packet one-way delay: 88.461 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 88.629 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 88.217 ms

Loss rate: 1.74%

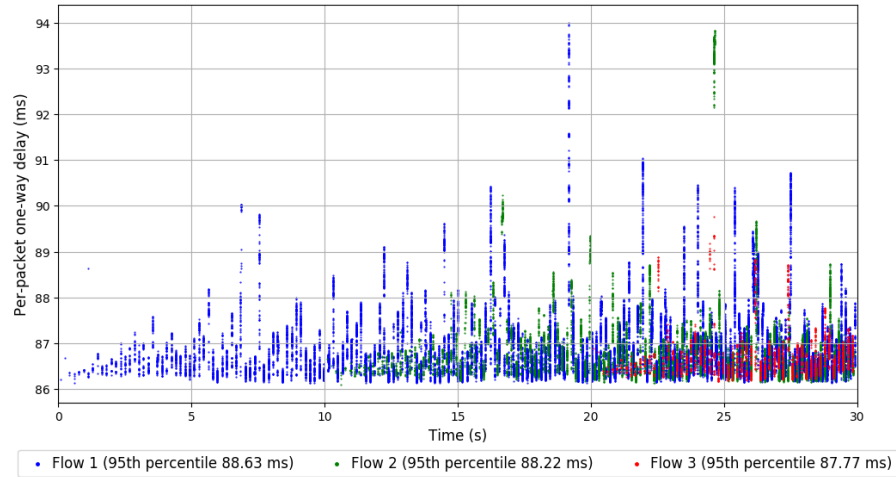
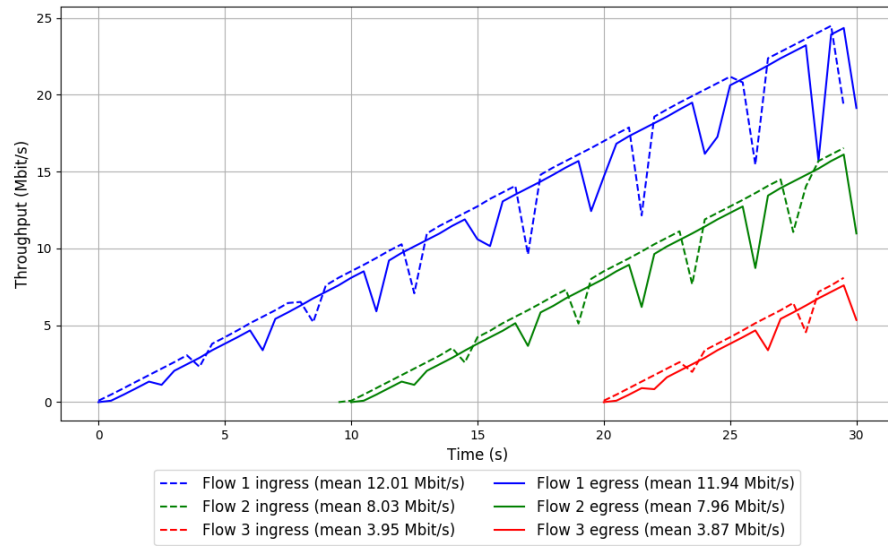
-- Flow 3:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 87.772 ms

Loss rate: 3.52%

Run 5: Report of LEDBAT — Data Link

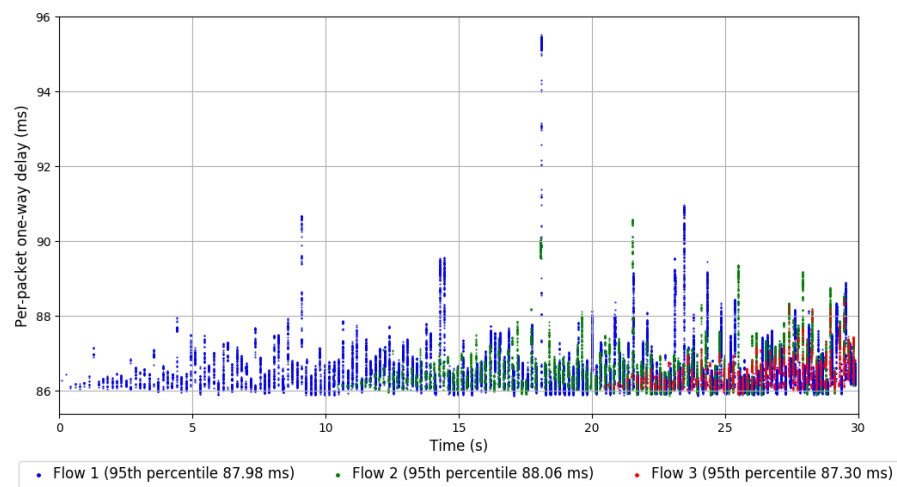
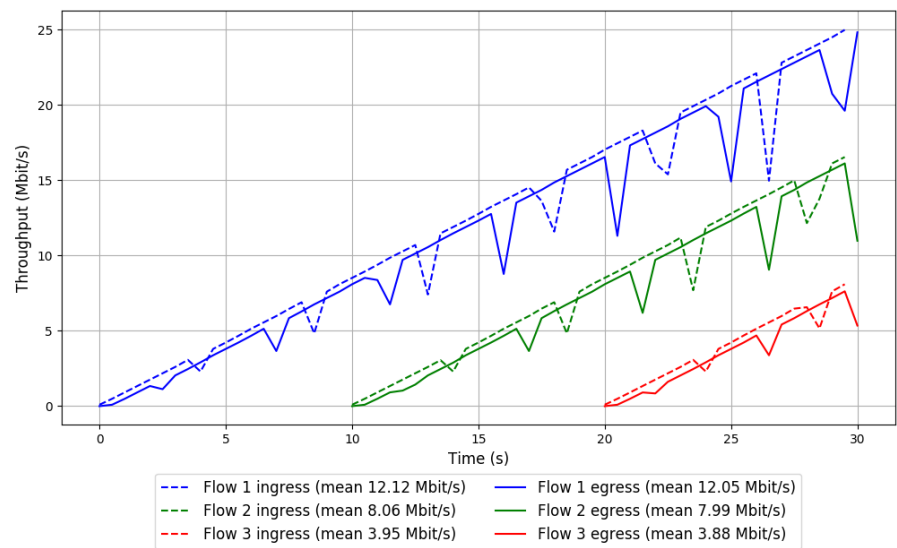


Run 6: Statistics of LEDBAT

Start at: 2018-06-05 21:22:31
End at: 2018-06-05 21:23:01
Local clock offset: -0.167 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 87.958 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 87.981 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 88.063 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 3.52%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-05 21:45:10

End at: 2018-06-05 21:45:40

Local clock offset: 0.058 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 88.301 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 88.459 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 88.314 ms

Loss rate: 1.79%

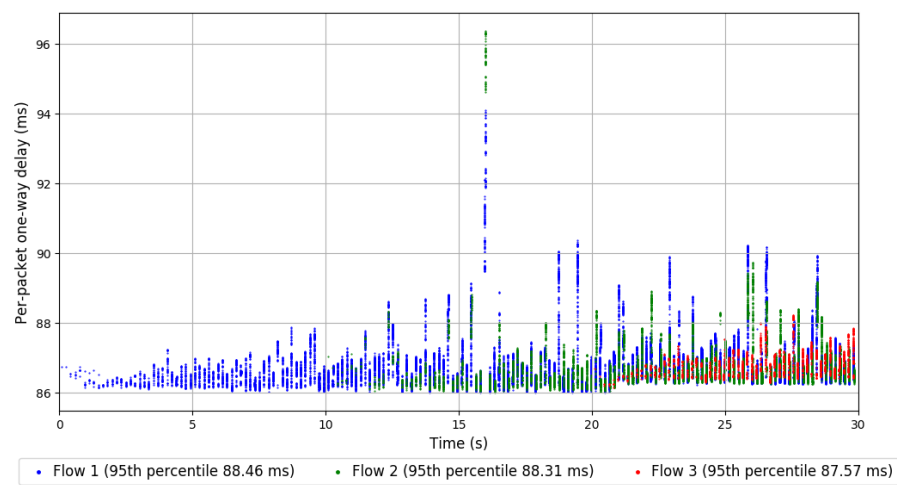
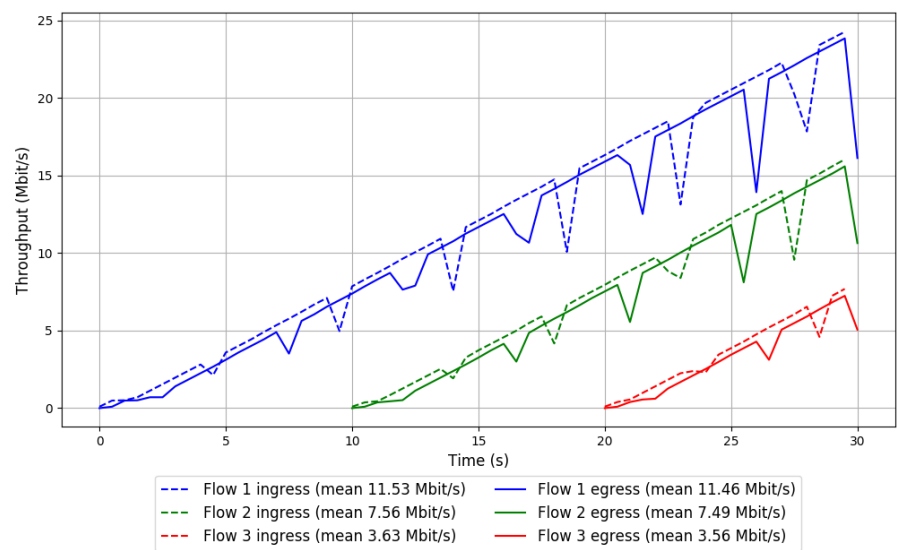
-- Flow 3:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 87.572 ms

Loss rate: 3.67%

Run 7: Report of LEDBAT — Data Link

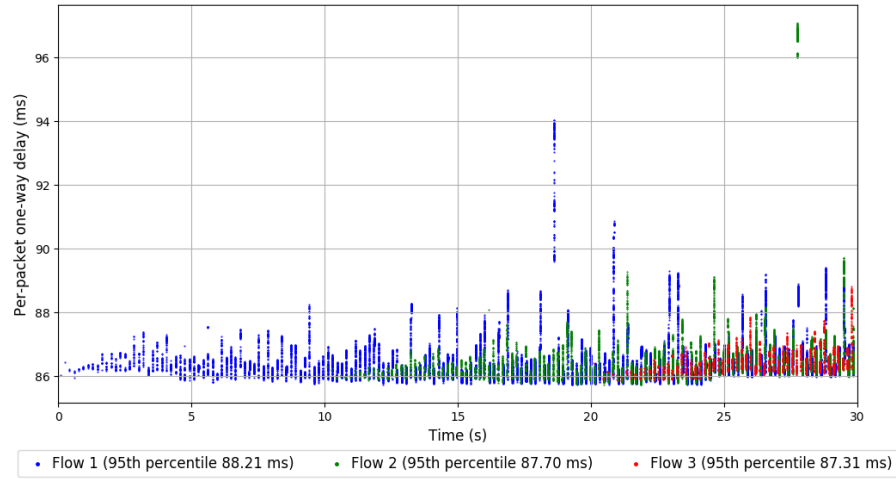
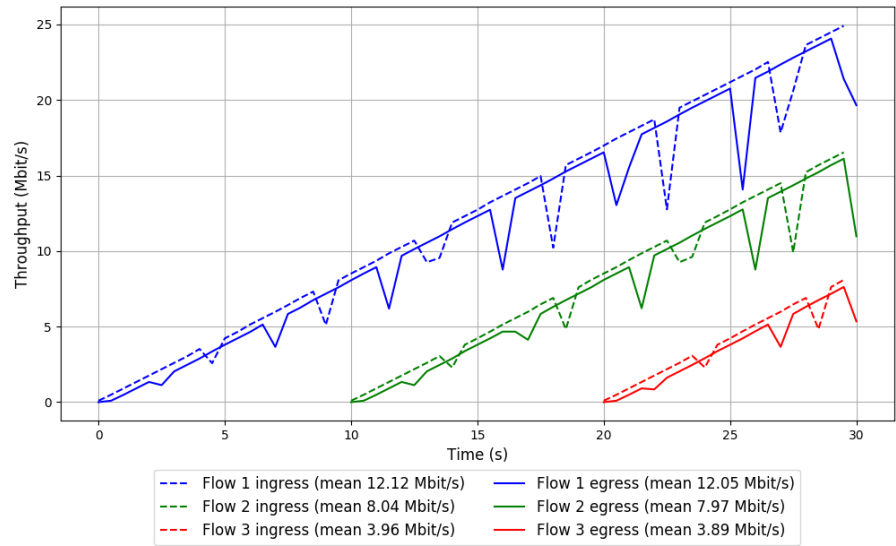


Run 8: Statistics of LEDBAT

Start at: 2018-06-05 22:07:26
End at: 2018-06-05 22:07:56
Local clock offset: -0.179 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 88.023 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 88.212 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 87.703 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 87.307 ms
Loss rate: 3.52%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-05 22:29:53

End at: 2018-06-05 22:30:23

Local clock offset: -0.28 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: 88.429 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 10.45 Mbit/s

95th percentile per-packet one-way delay: 88.671 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 88.177 ms

Loss rate: 1.83%

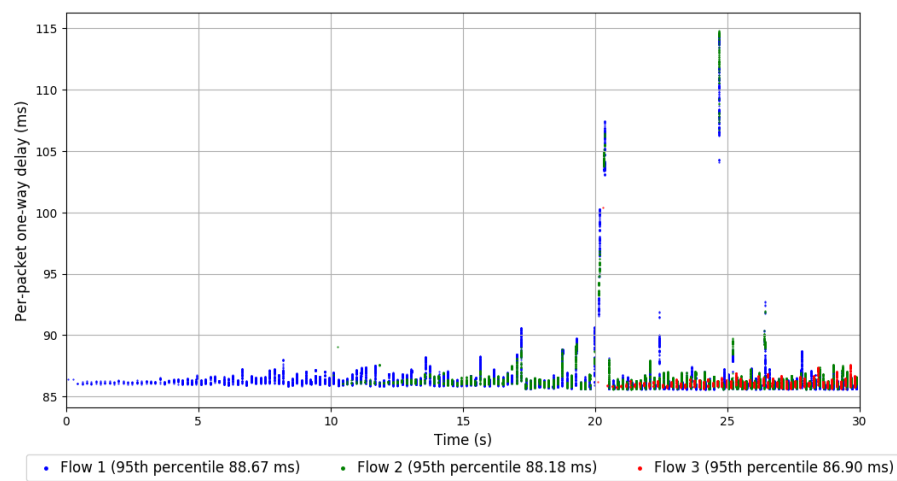
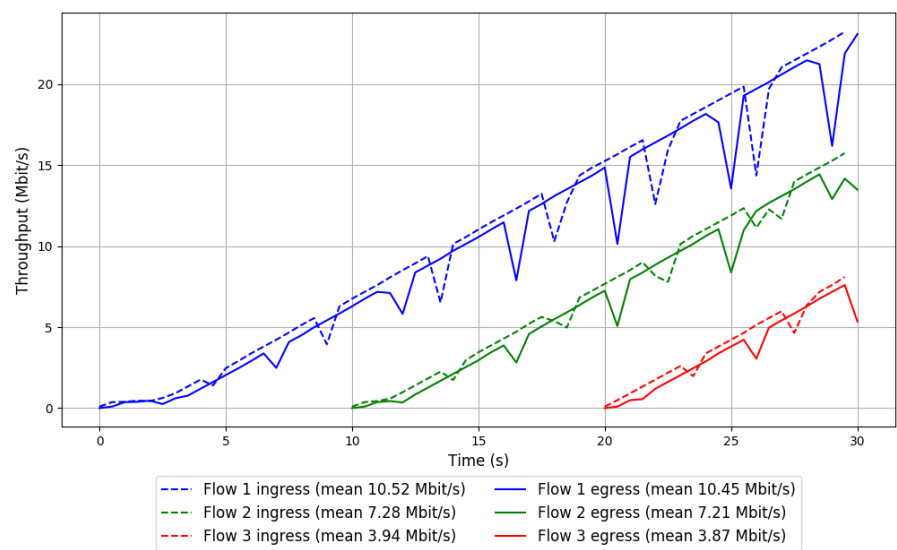
-- Flow 3:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 86.901 ms

Loss rate: 3.52%

Run 9: Report of LEDBAT — Data Link

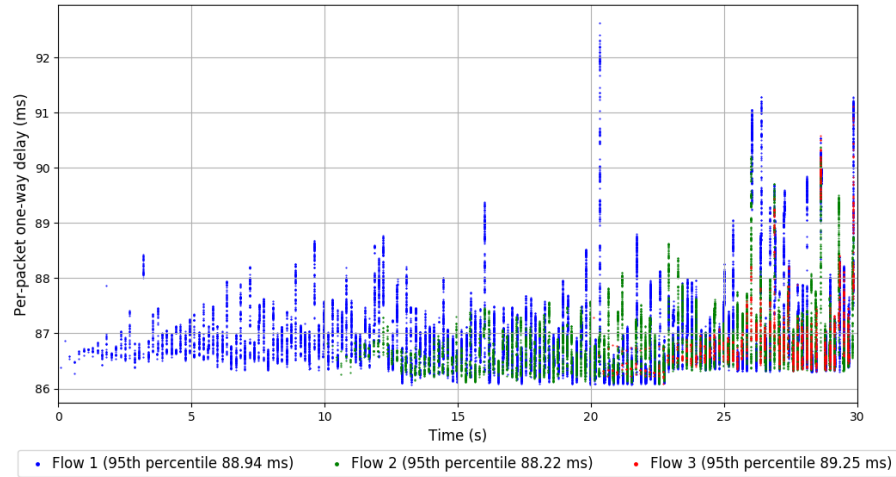
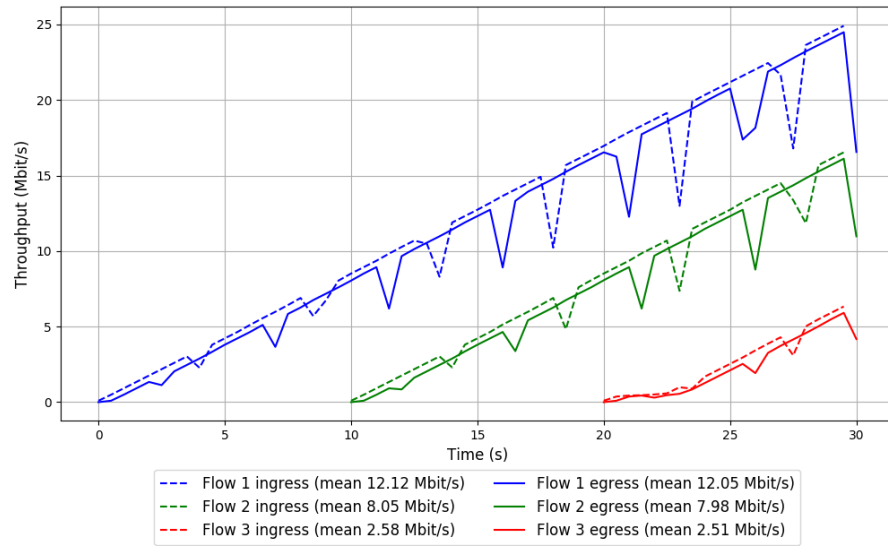


Run 10: Statistics of LEDBAT

Start at: 2018-06-05 22:52:38
End at: 2018-06-05 22:53:08
Local clock offset: 0.162 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 88.711 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 88.935 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 88.216 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 89.247 ms
Loss rate: 4.23%

Run 10: Report of LEDBAT — Data Link

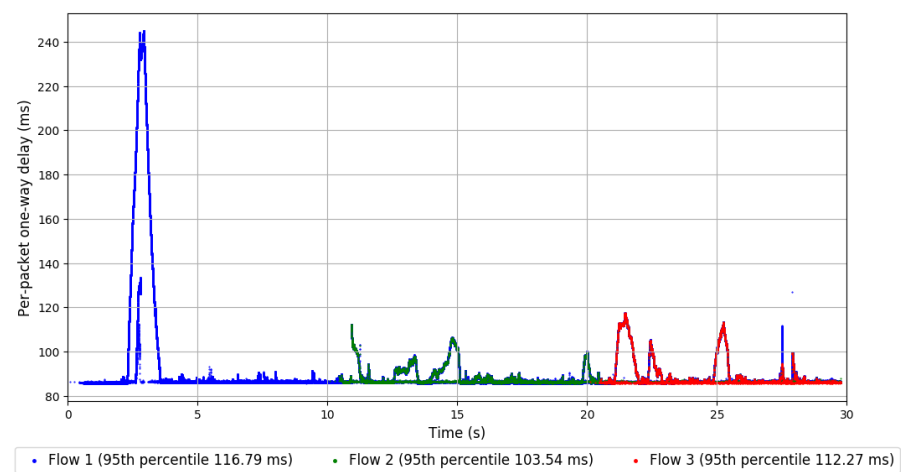
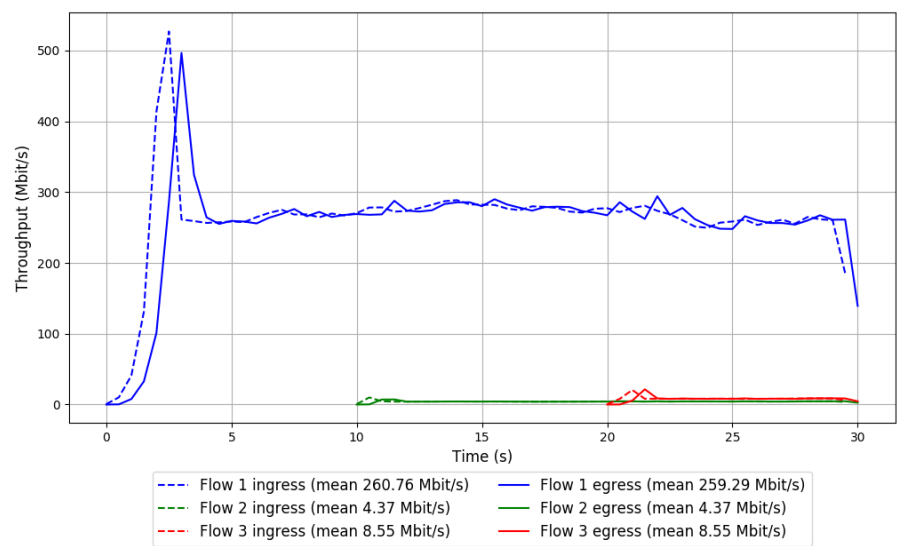


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 19:36:07
End at: 2018-06-05 19:36:37
Local clock offset: 0.149 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.95 Mbit/s
95th percentile per-packet one-way delay: 116.082 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 259.29 Mbit/s
95th percentile per-packet one-way delay: 116.793 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 103.544 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 112.273 ms
Loss rate: 1.78%

Run 1: Report of PCC-Allegro — Data Link

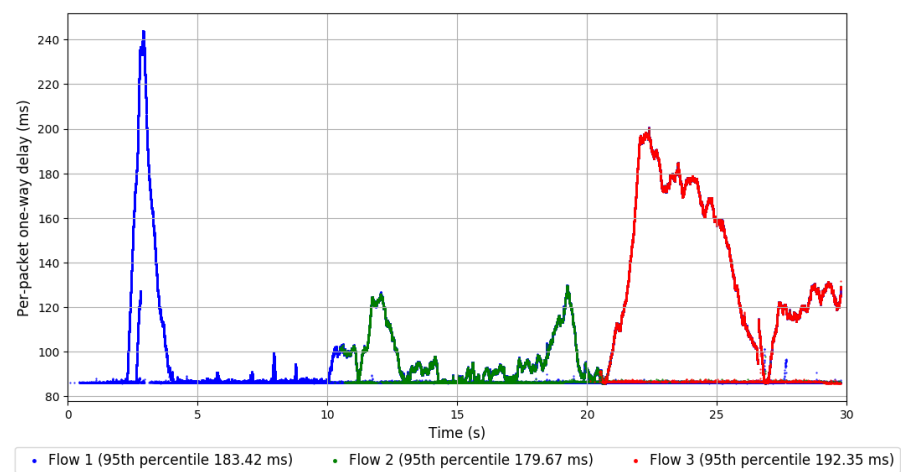
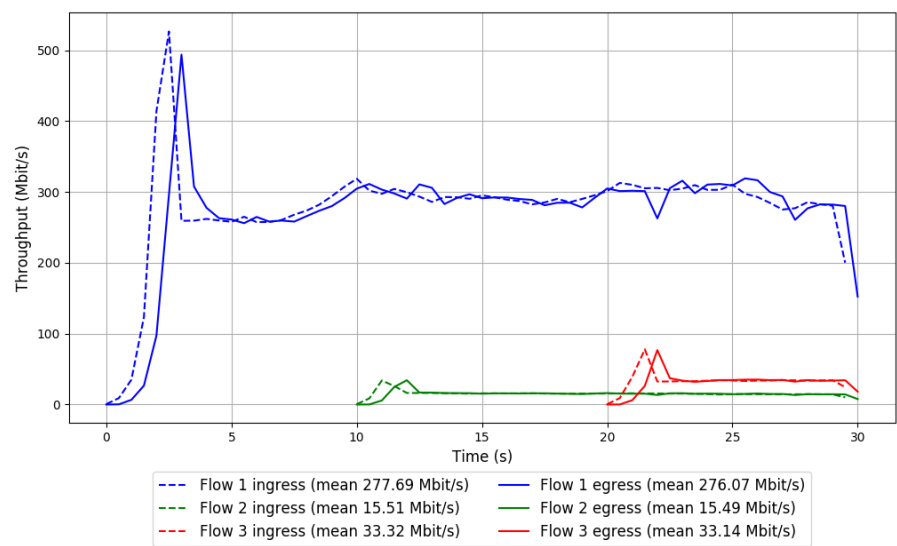


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 19:58:51
End at: 2018-06-05 19:59:21
Local clock offset: 0.004 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.09 Mbit/s
95th percentile per-packet one-way delay: 184.097 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 276.07 Mbit/s
95th percentile per-packet one-way delay: 183.419 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 179.668 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 192.351 ms
Loss rate: 2.24%

Run 2: Report of PCC-Allegro — Data Link

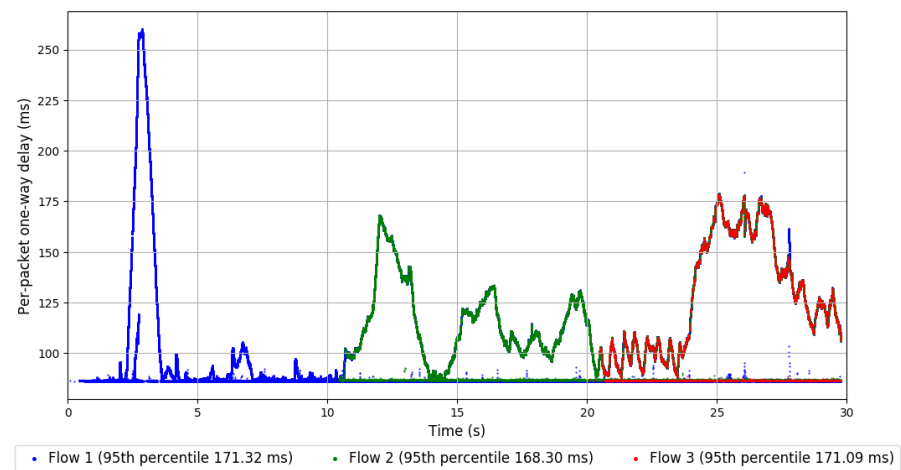
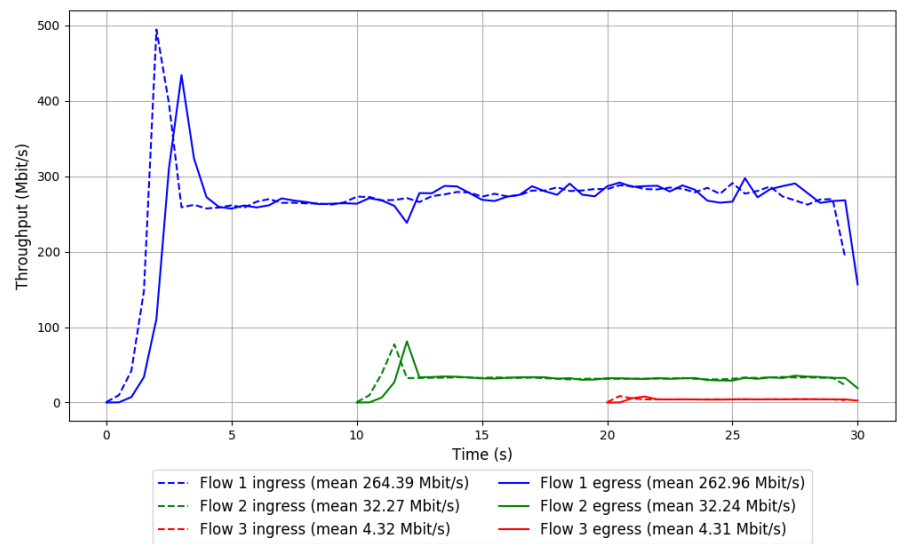


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 20:21:35
End at: 2018-06-05 20:22:05
Local clock offset: -0.042 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.68 Mbit/s
95th percentile per-packet one-way delay: 170.908 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 262.96 Mbit/s
95th percentile per-packet one-way delay: 171.320 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 168.302 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 171.094 ms
Loss rate: 1.93%

Run 3: Report of PCC-Allegro — Data Link

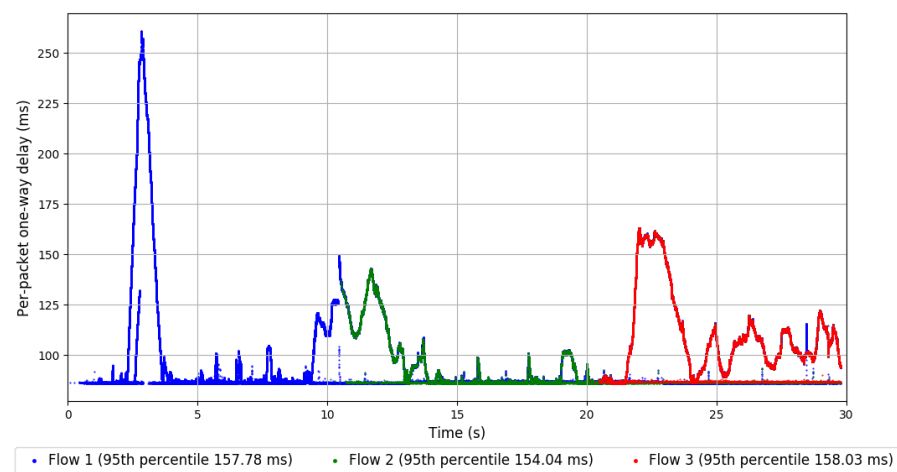
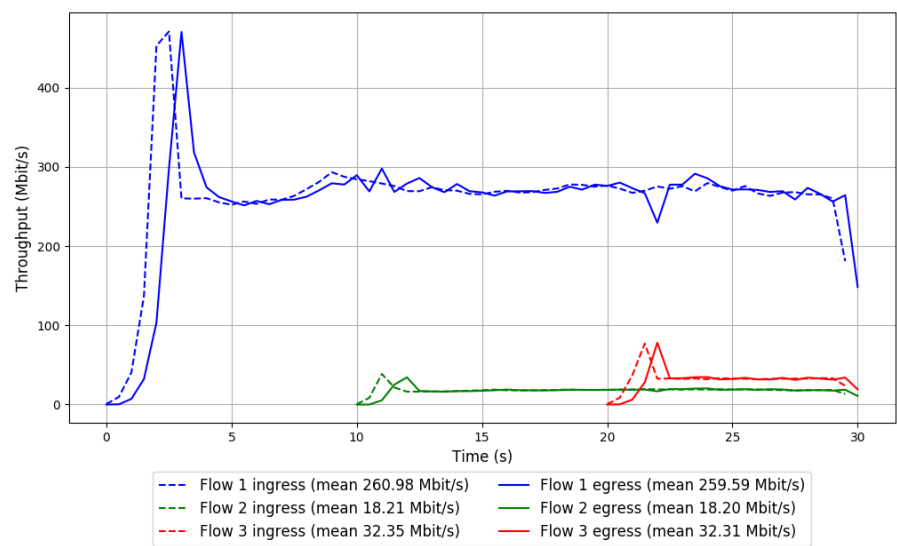


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-05 20:44:07
End at: 2018-06-05 20:44:37
Local clock offset: -0.336 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 282.16 Mbit/s
95th percentile per-packet one-way delay: 157.613 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 259.59 Mbit/s
95th percentile per-packet one-way delay: 157.785 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 154.042 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 158.035 ms
Loss rate: 1.87%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-05 21:06:47

End at: 2018-06-05 21:07:17

Local clock offset: -0.077 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.69 Mbit/s

95th percentile per-packet one-way delay: 237.791 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 247.81 Mbit/s

95th percentile per-packet one-way delay: 236.264 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: 245.154 ms

Loss rate: 0.94%

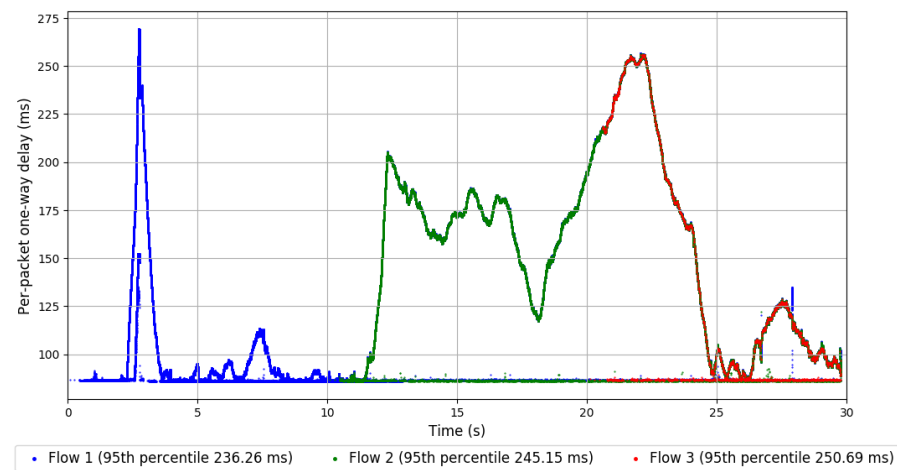
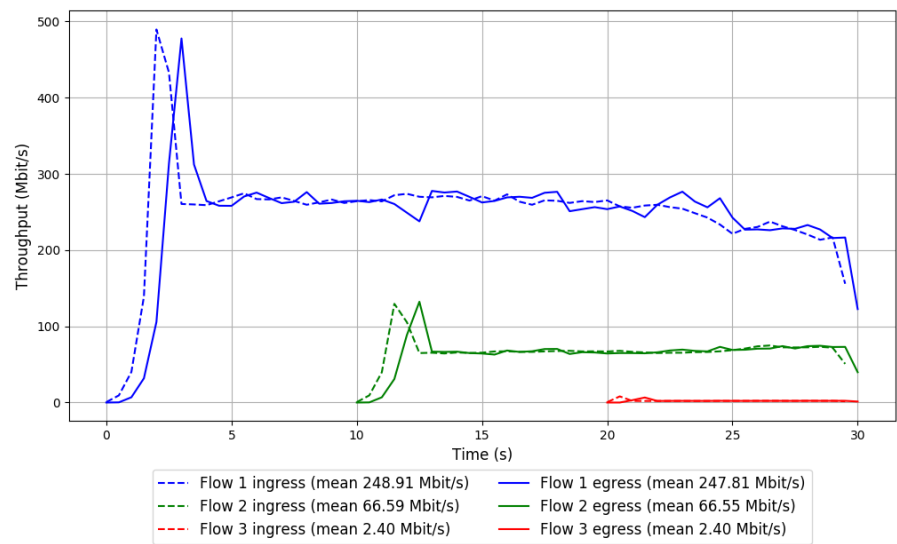
-- Flow 3:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 250.687 ms

Loss rate: 1.74%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-05 21:29:24

End at: 2018-06-05 21:29:54

Local clock offset: 0.092 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.83 Mbit/s

95th percentile per-packet one-way delay: 184.150 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 235.42 Mbit/s

95th percentile per-packet one-way delay: 185.136 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 172.564 ms

Loss rate: 1.07%

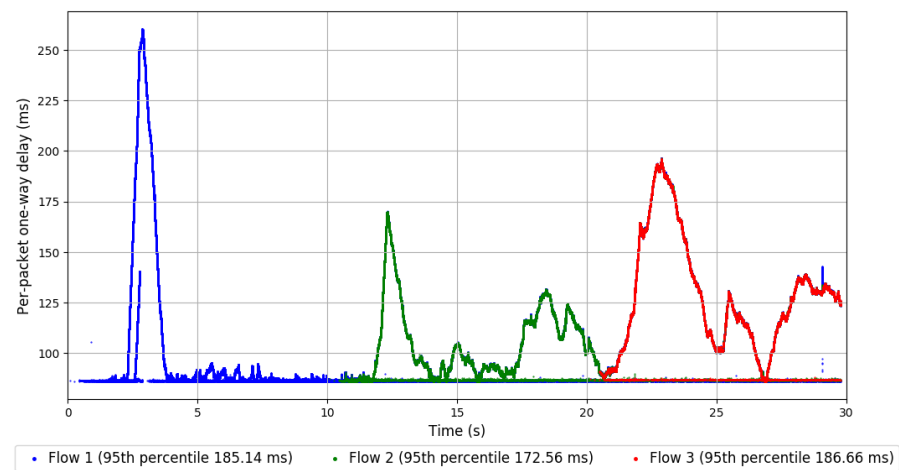
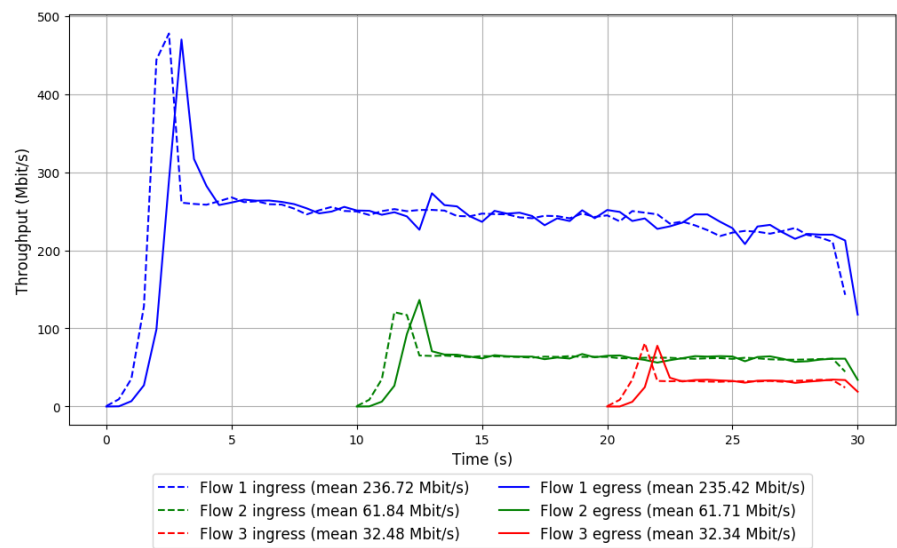
-- Flow 3:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 186.657 ms

Loss rate: 2.20%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-05 21:52:01

End at: 2018-06-05 21:52:31

Local clock offset: 0.205 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.70 Mbit/s

95th percentile per-packet one-way delay: 261.407 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 256.15 Mbit/s

95th percentile per-packet one-way delay: 261.035 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 262.447 ms

Loss rate: 1.34%

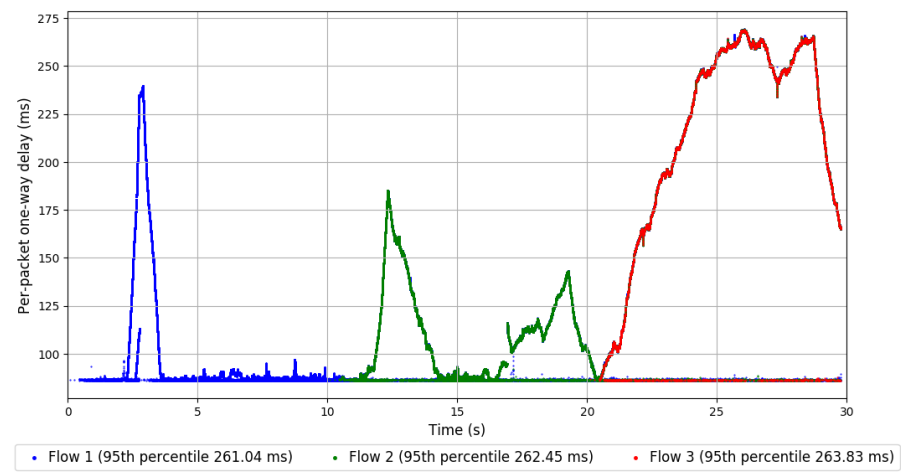
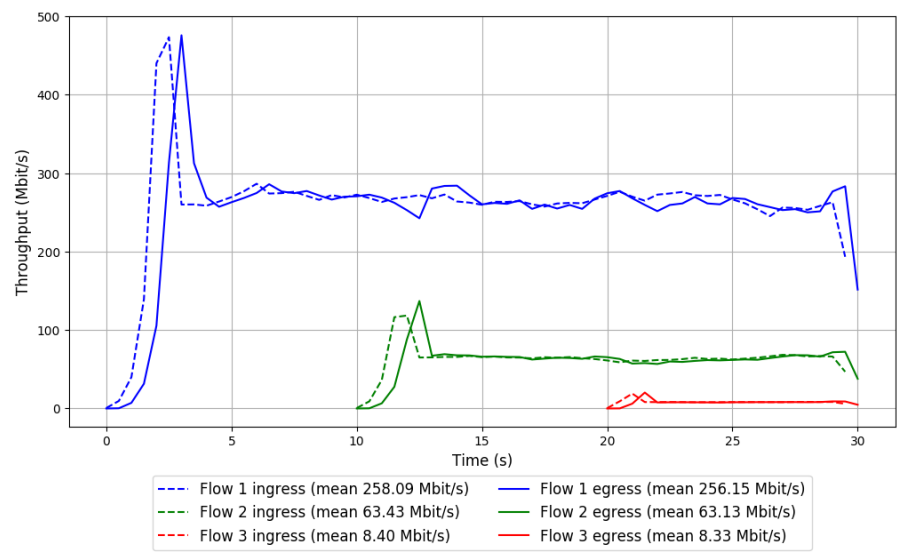
-- Flow 3:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 263.835 ms

Loss rate: 2.62%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-05 22:14:25

End at: 2018-06-05 22:14:55

Local clock offset: -0.088 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-06 00:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.11 Mbit/s

95th percentile per-packet one-way delay: 252.813 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 229.00 Mbit/s

95th percentile per-packet one-way delay: 251.938 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 128.85 Mbit/s

95th percentile per-packet one-way delay: 254.005 ms

Loss rate: 1.81%

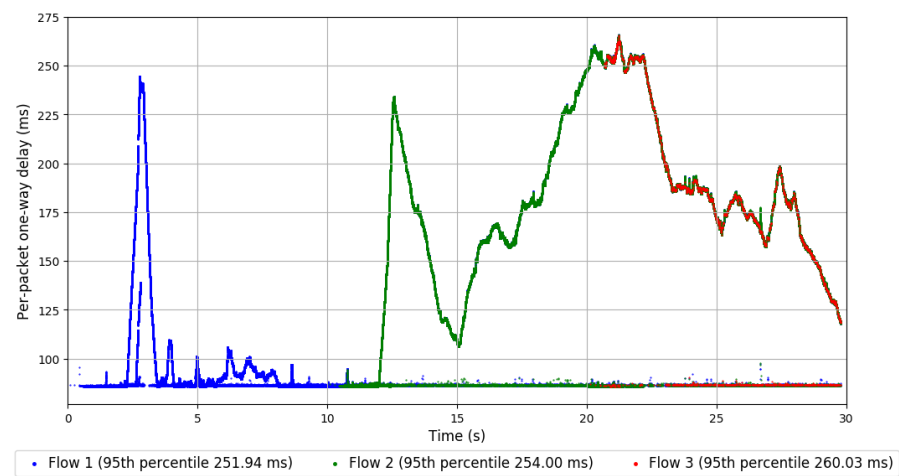
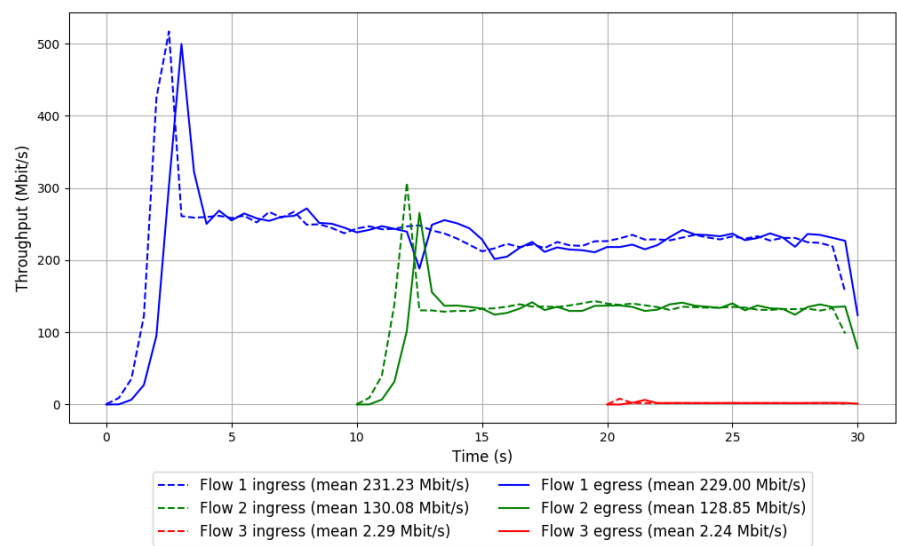
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 260.026 ms

Loss rate: 3.86%

Run 8: Report of PCC-Allegro — Data Link

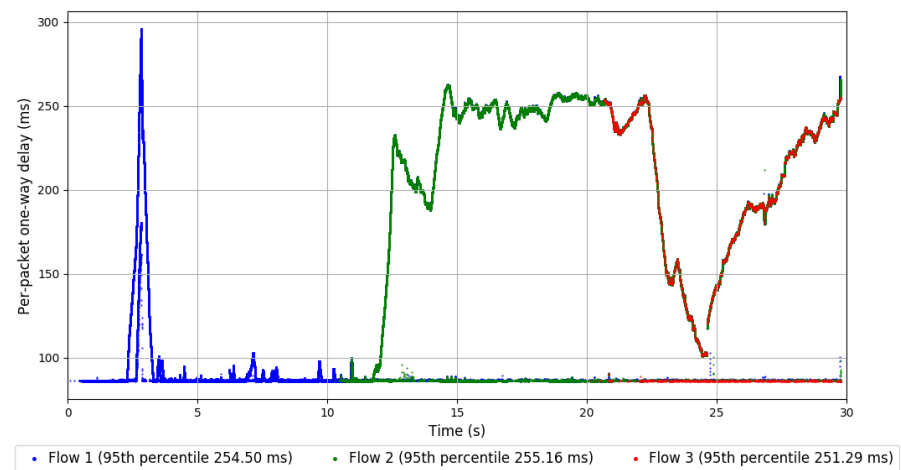
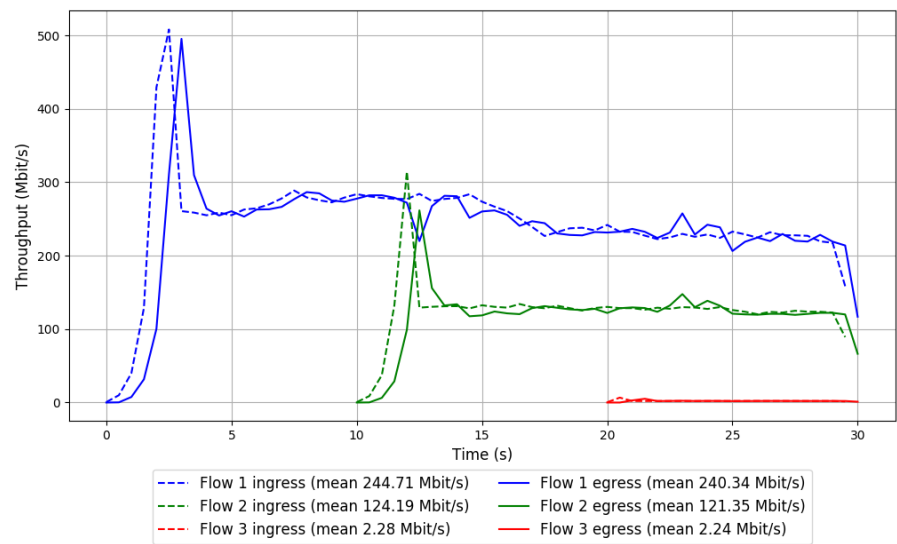


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-05 22:36:53
End at: 2018-06-05 22:37:23
Local clock offset: -0.066 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 321.46 Mbit/s
95th percentile per-packet one-way delay: 254.712 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 240.34 Mbit/s
95th percentile per-packet one-way delay: 254.496 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 121.35 Mbit/s
95th percentile per-packet one-way delay: 255.157 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 251.288 ms
Loss rate: 3.63%

Run 9: Report of PCC-Allegro — Data Link

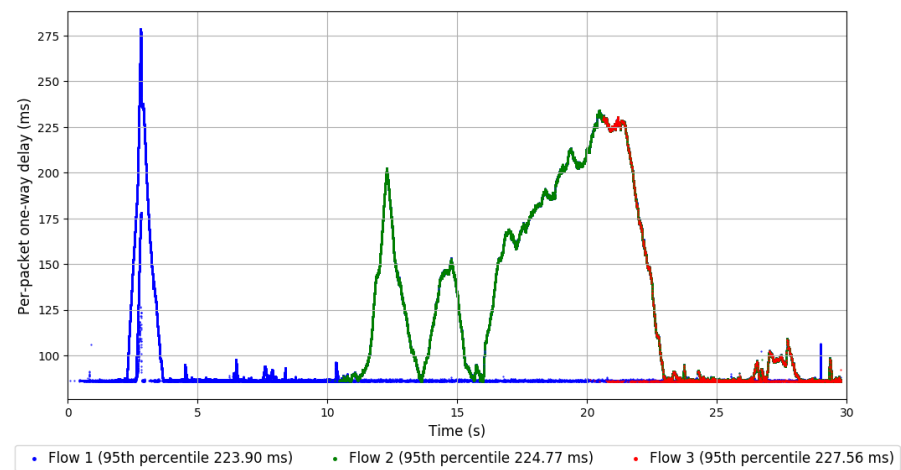
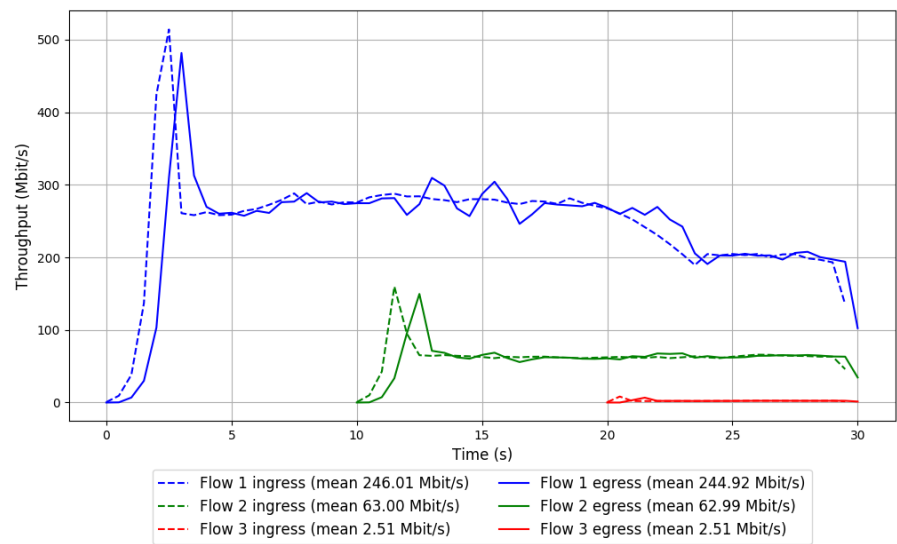


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-05 22:59:34
End at: 2018-06-05 23:00:04
Local clock offset: -0.019 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.44 Mbit/s
95th percentile per-packet one-way delay: 224.122 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 244.92 Mbit/s
95th percentile per-packet one-way delay: 223.900 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 62.99 Mbit/s
95th percentile per-packet one-way delay: 224.769 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 227.556 ms
Loss rate: 1.69%

Run 10: Report of PCC-Allegro — Data Link

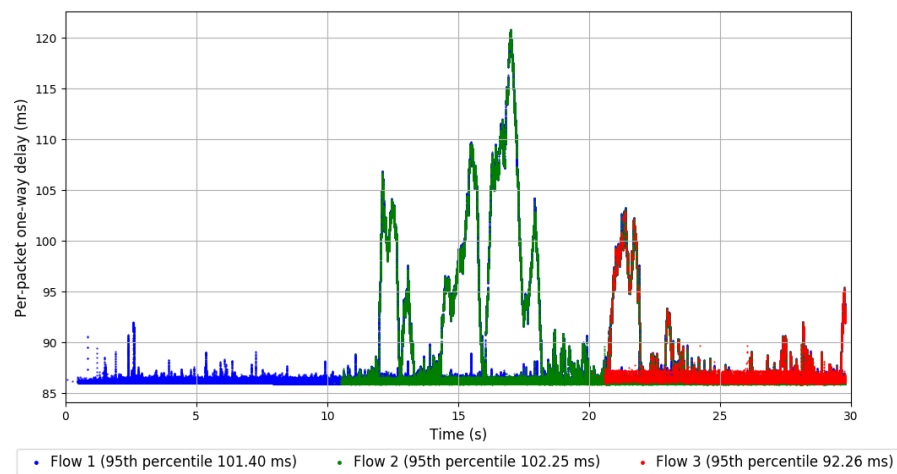
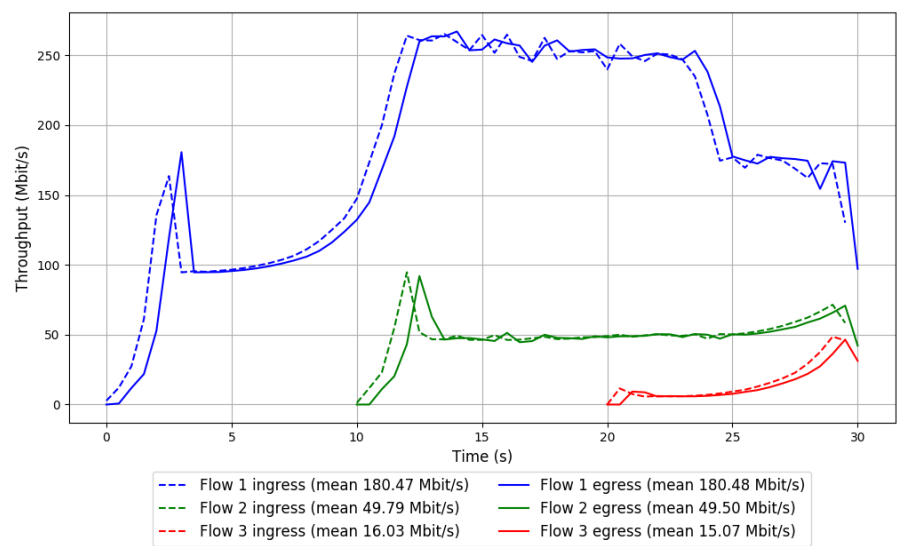


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 19:17:42
End at: 2018-06-05 19:18:12
Local clock offset: 0.324 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-06 00:13:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.18 Mbit/s
95th percentile per-packet one-way delay: 101.425 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 180.48 Mbit/s
95th percentile per-packet one-way delay: 101.399 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 49.50 Mbit/s
95th percentile per-packet one-way delay: 102.251 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 15.07 Mbit/s
95th percentile per-packet one-way delay: 92.260 ms
Loss rate: 7.66%
```

Run 1: Report of PCC-Expr — Data Link

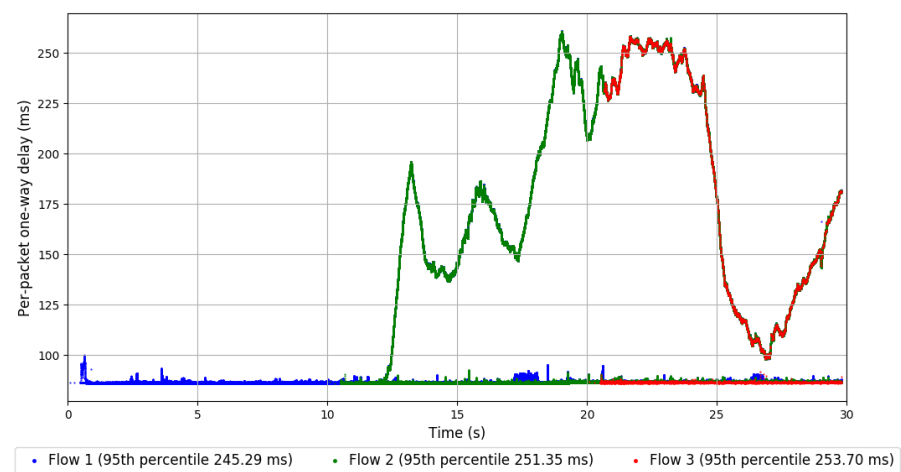
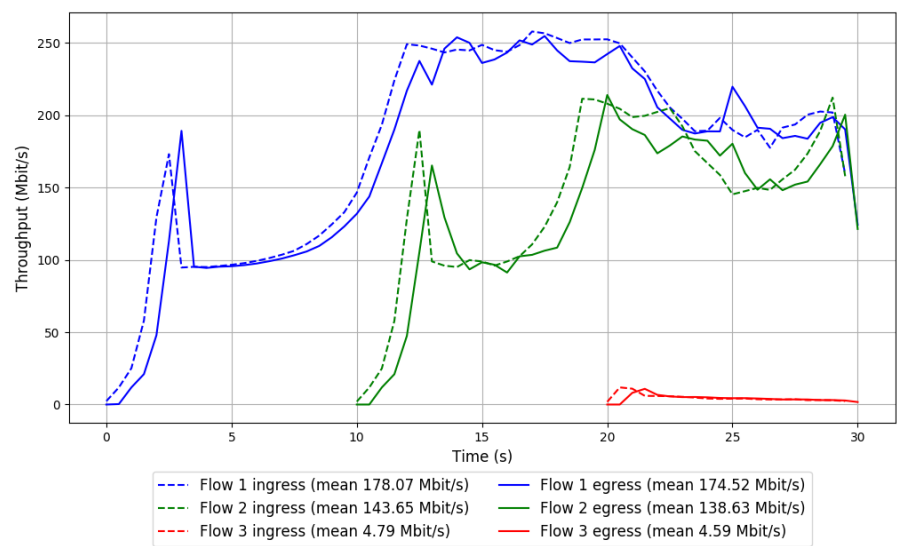


Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 19:40:21
End at: 2018-06-05 19:40:51
Local clock offset: 0.231 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.91 Mbit/s
95th percentile per-packet one-way delay: 248.915 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 174.52 Mbit/s
95th percentile per-packet one-way delay: 245.290 ms
Loss rate: 2.56%
-- Flow 2:
Average throughput: 138.63 Mbit/s
95th percentile per-packet one-way delay: 251.352 ms
Loss rate: 4.34%
-- Flow 3:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 253.702 ms
Loss rate: 5.72%

Run 2: Report of PCC-Expr — Data Link

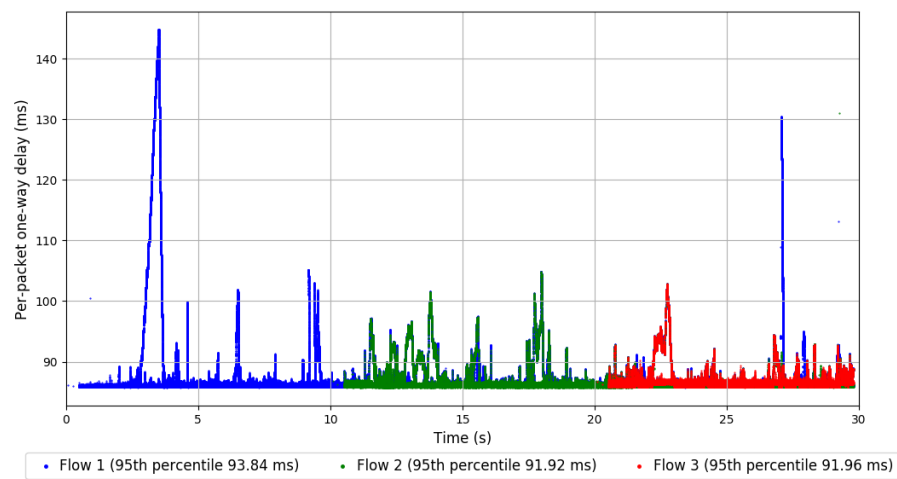
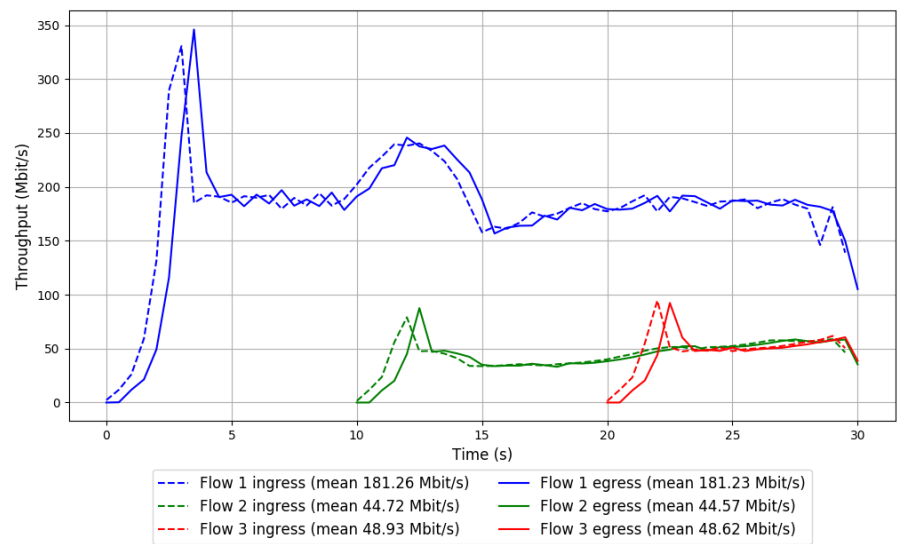


Run 3: Statistics of PCC-Expr

Start at: 2018-06-05 20:03:09
End at: 2018-06-05 20:03:39
Local clock offset: -0.128 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-06-06 00:13:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.61 Mbit/s
95th percentile per-packet one-way delay: 93.272 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 181.23 Mbit/s
95th percentile per-packet one-way delay: 93.843 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 44.57 Mbit/s
95th percentile per-packet one-way delay: 91.920 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 48.62 Mbit/s
95th percentile per-packet one-way delay: 91.962 ms
Loss rate: 2.40%

Run 3: Report of PCC-Expr — Data Link

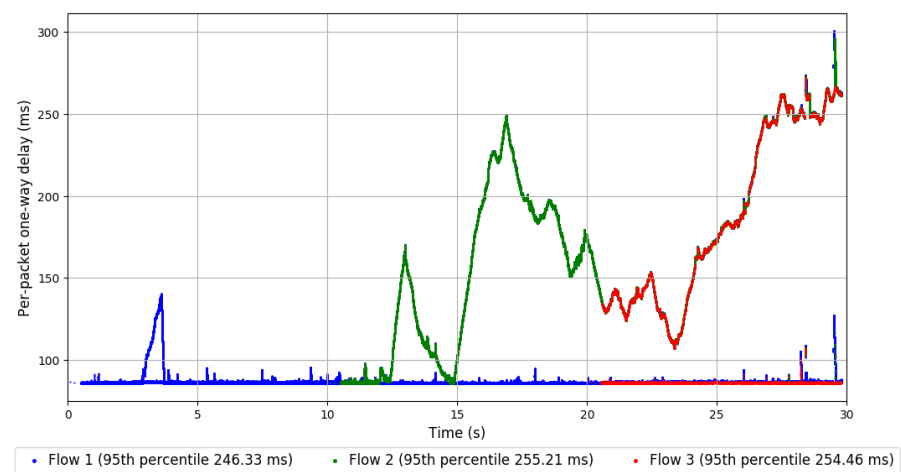
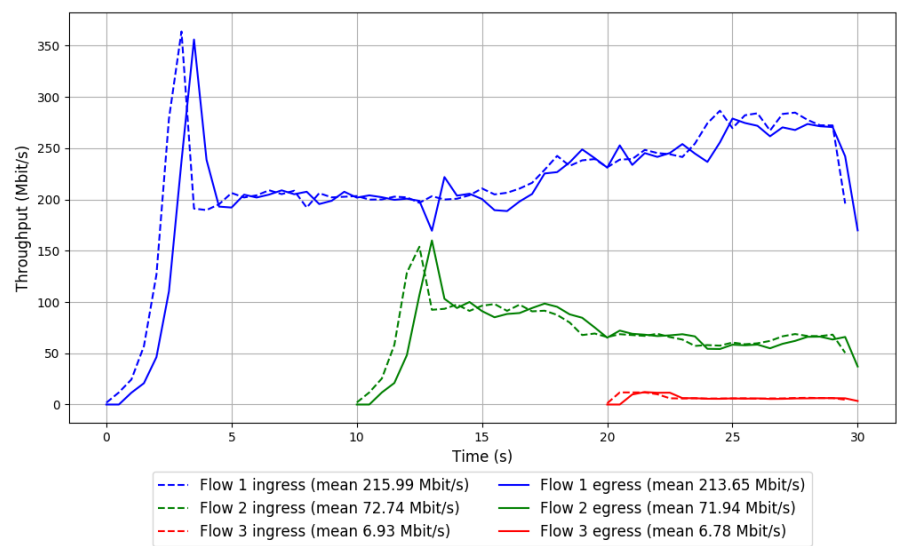


Run 4: Statistics of PCC-Expr

Start at: 2018-06-05 20:25:49
End at: 2018-06-05 20:26:19
Local clock offset: -0.086 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-06 00:15:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 263.56 Mbit/s
95th percentile per-packet one-way delay: 248.533 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 213.65 Mbit/s
95th percentile per-packet one-way delay: 246.326 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 71.94 Mbit/s
95th percentile per-packet one-way delay: 255.209 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 254.456 ms
Loss rate: 3.76%

Run 4: Report of PCC-Expr — Data Link

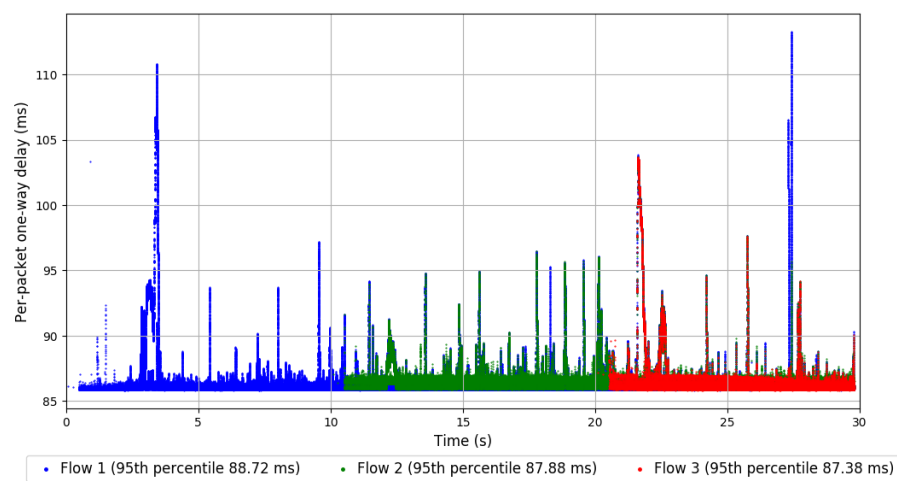
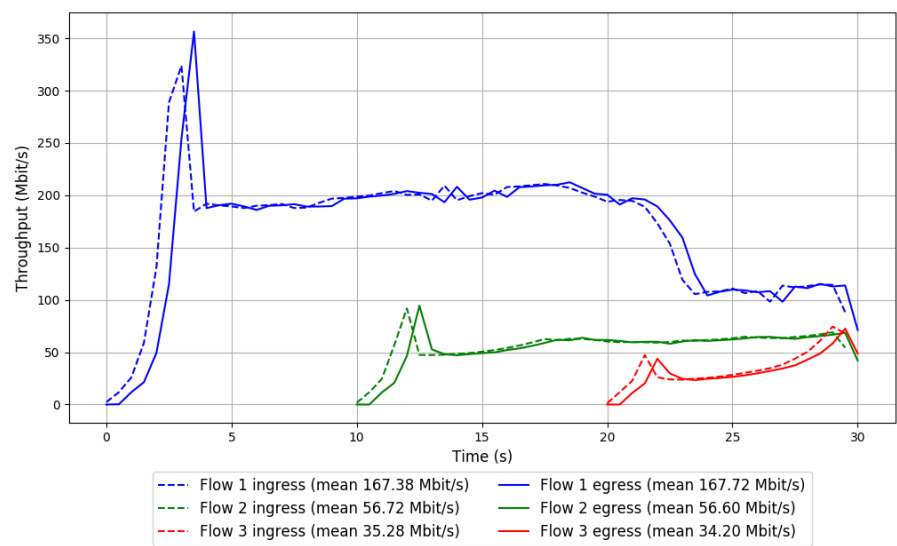


```
Run 5: Statistics of PCC-Expr

Start at: 2018-06-05 20:48:20
End at: 2018-06-05 20:48:50
Local clock offset: -0.194 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-06-06 00:15:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.40 Mbit/s
95th percentile per-packet one-way delay: 88.477 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 167.72 Mbit/s
95th percentile per-packet one-way delay: 88.723 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 56.60 Mbit/s
95th percentile per-packet one-way delay: 87.879 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 87.378 ms
Loss rate: 4.77%
```

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-05 21:10:59

End at: 2018-06-05 21:11:29

Local clock offset: 0.121 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-06 00:18:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.41 Mbit/s

95th percentile per-packet one-way delay: 242.922 ms

Loss rate: 2.62%

-- Flow 1:

Average throughput: 242.50 Mbit/s

95th percentile per-packet one-way delay: 243.786 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 60.38 Mbit/s

95th percentile per-packet one-way delay: 240.671 ms

Loss rate: 2.91%

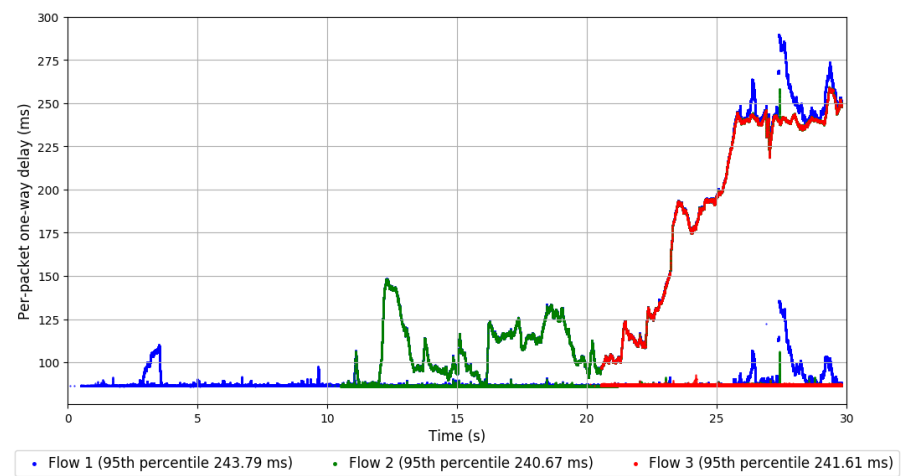
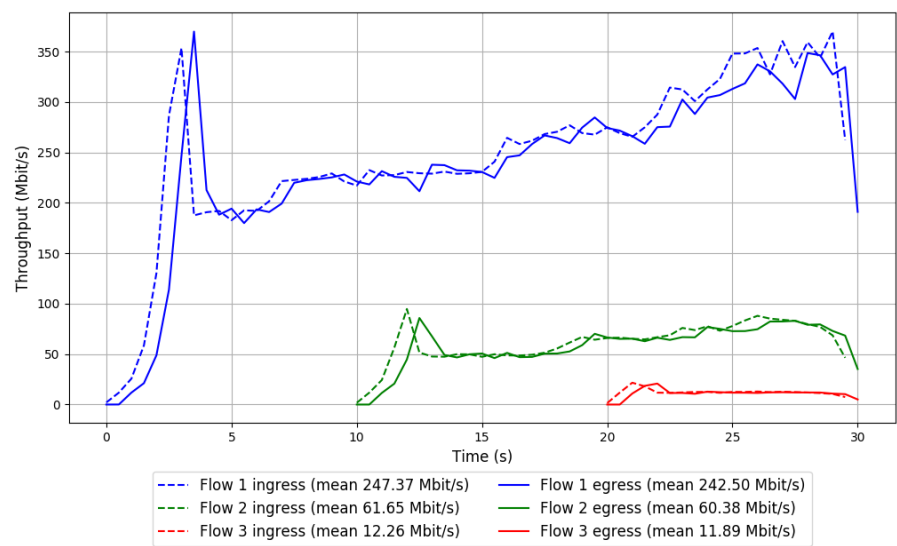
-- Flow 3:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 241.607 ms

Loss rate: 4.75%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-05 21:33:33

End at: 2018-06-05 21:34:03

Local clock offset: -0.205 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-06 00:18:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.89 Mbit/s

95th percentile per-packet one-way delay: 108.969 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 171.96 Mbit/s

95th percentile per-packet one-way delay: 107.993 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 74.79 Mbit/s

95th percentile per-packet one-way delay: 110.552 ms

Loss rate: 0.98%

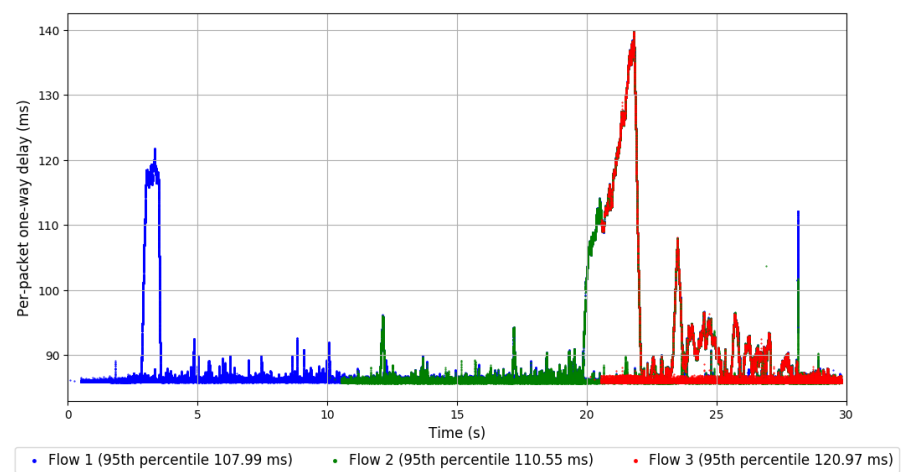
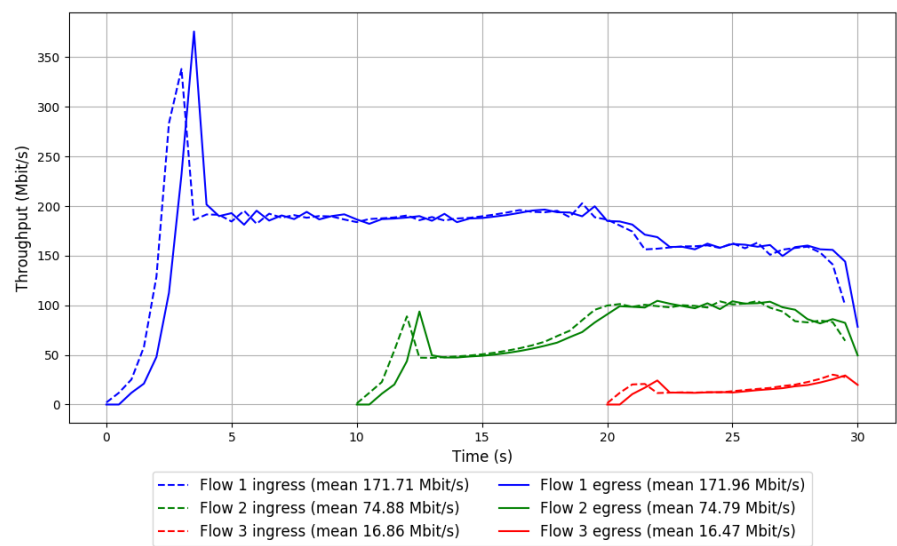
-- Flow 3:

Average throughput: 16.47 Mbit/s

95th percentile per-packet one-way delay: 120.974 ms

Loss rate: 4.04%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-05 21:56:14

End at: 2018-06-05 21:56:44

Local clock offset: -0.113 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-06 00:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.04 Mbit/s

95th percentile per-packet one-way delay: 186.256 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 199.40 Mbit/s

95th percentile per-packet one-way delay: 183.378 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 57.43 Mbit/s

95th percentile per-packet one-way delay: 189.923 ms

Loss rate: 3.70%

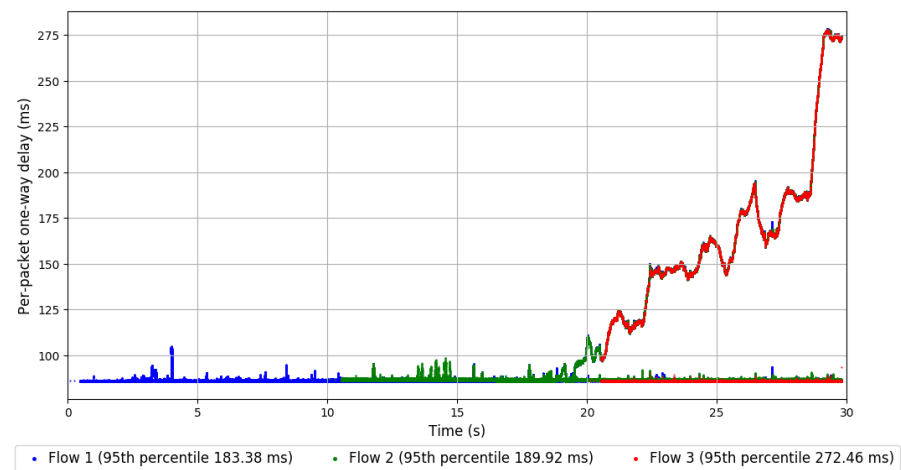
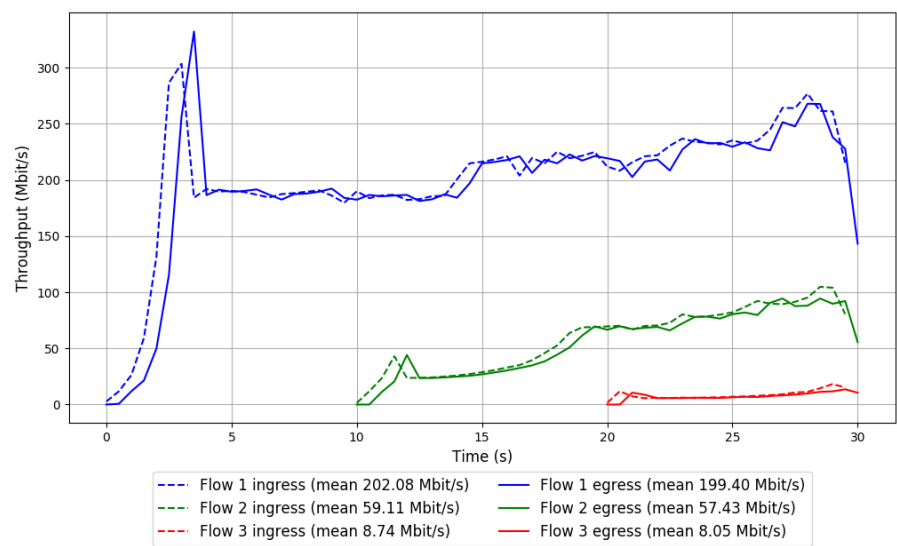
-- Flow 3:

Average throughput: 8.05 Mbit/s

95th percentile per-packet one-way delay: 272.456 ms

Loss rate: 9.39%

Run 8: Report of PCC-Expr — Data Link

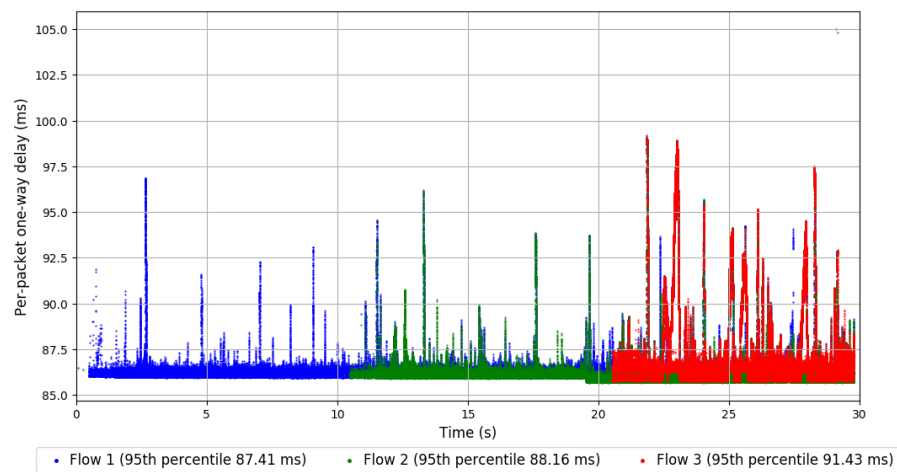
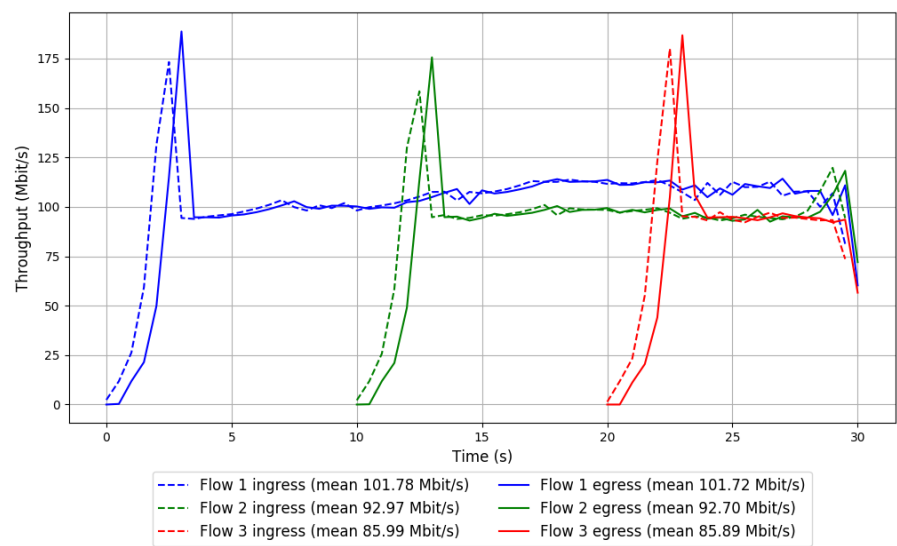


Run 9: Statistics of PCC-Expr

Start at: 2018-06-05 22:18:41
End at: 2018-06-05 22:19:11
Local clock offset: -0.168 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-06 00:18:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.16 Mbit/s
95th percentile per-packet one-way delay: 88.449 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 101.72 Mbit/s
95th percentile per-packet one-way delay: 87.409 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 88.163 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 85.89 Mbit/s
95th percentile per-packet one-way delay: 91.428 ms
Loss rate: 1.95%

Run 9: Report of PCC-Expr — Data Link

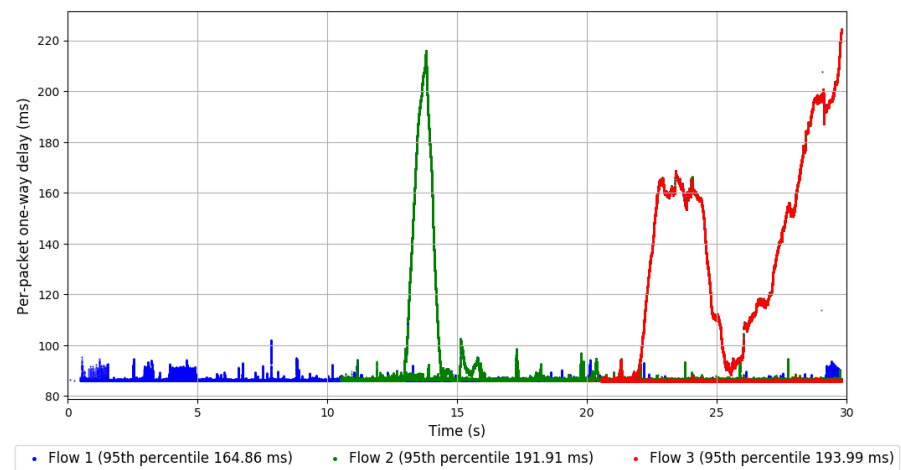
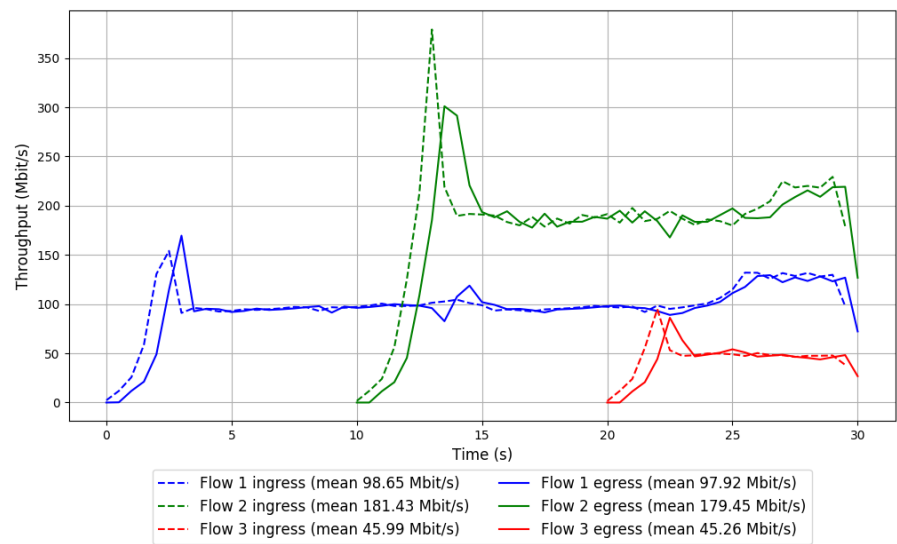


Run 10: Statistics of PCC-Expr

Start at: 2018-06-05 22:41:10
End at: 2018-06-05 22:41:40
Local clock offset: -0.044 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.59 Mbit/s
95th percentile per-packet one-way delay: 184.509 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 97.92 Mbit/s
95th percentile per-packet one-way delay: 164.863 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 179.45 Mbit/s
95th percentile per-packet one-way delay: 191.910 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 45.26 Mbit/s
95th percentile per-packet one-way delay: 193.989 ms
Loss rate: 3.33%

Run 10: Report of PCC-Expr — Data Link

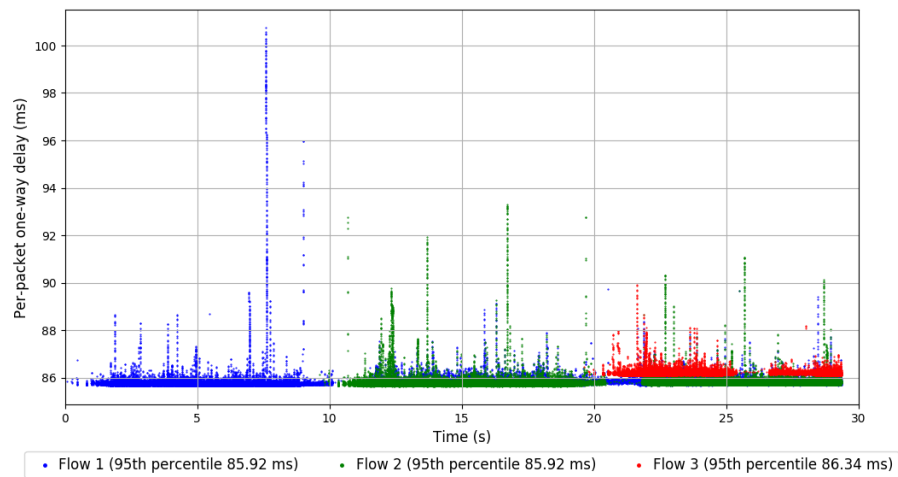
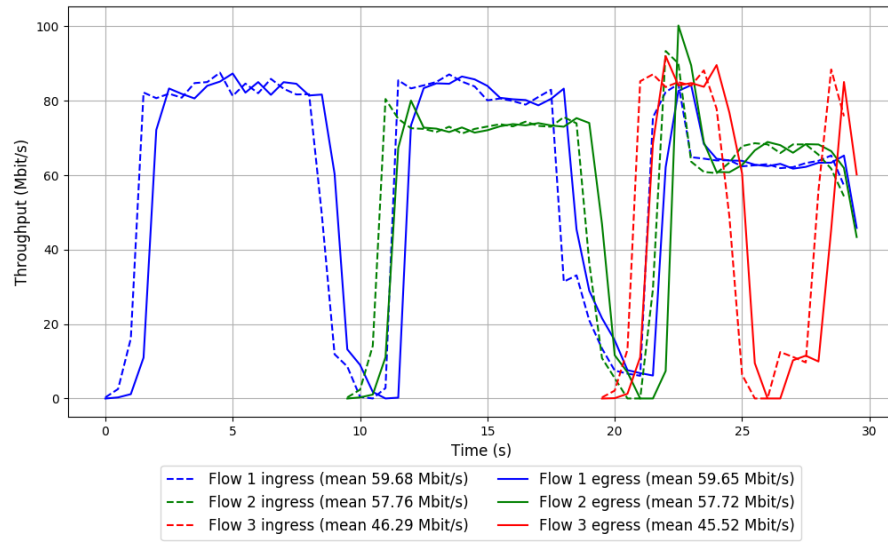


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 19:22:10
End at: 2018-06-05 19:22:40
Local clock offset: 0.053 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-06 00:20:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.67 Mbit/s
95th percentile per-packet one-way delay: 86.220 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 85.924 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 57.72 Mbit/s
95th percentile per-packet one-way delay: 85.917 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 45.52 Mbit/s
95th percentile per-packet one-way delay: 86.339 ms
Loss rate: 3.39%
```


Run 1: Report of QUIC Cubic — Data Link

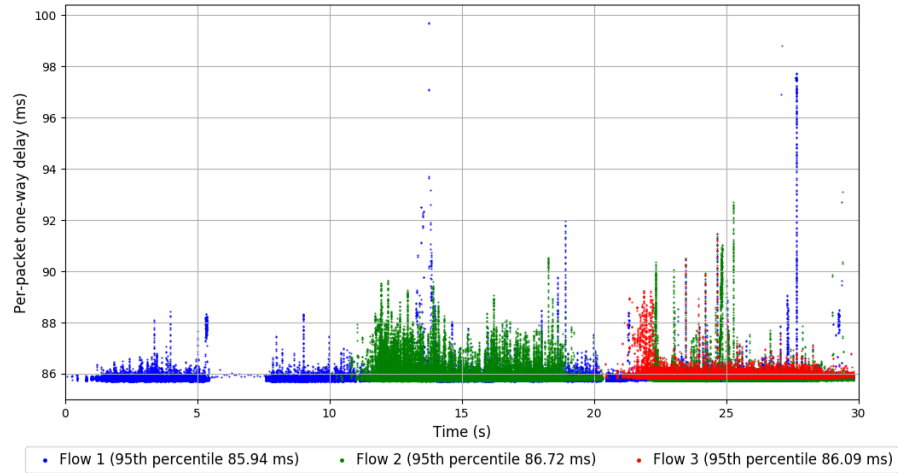
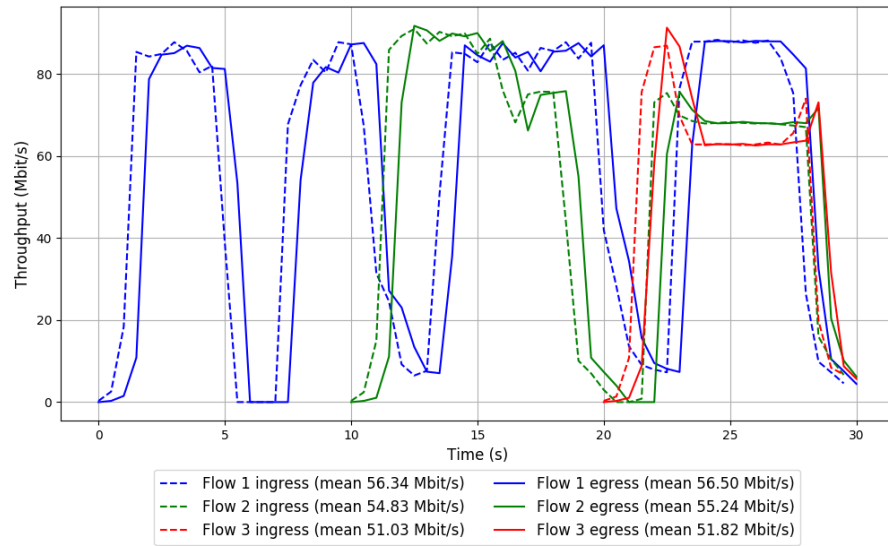


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 19:44:50
End at: 2018-06-05 19:45:20
Local clock offset: 0.002 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 110.06 Mbit/s
95th percentile per-packet one-way delay: 86.155 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 85.935 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 86.715 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 86.090 ms
Loss rate: 0.24%

Run 2: Report of QUIC Cubic — Data Link

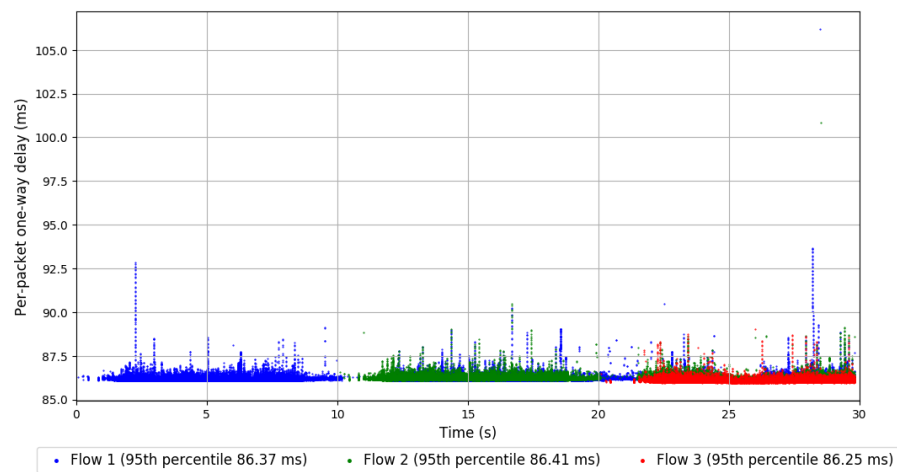
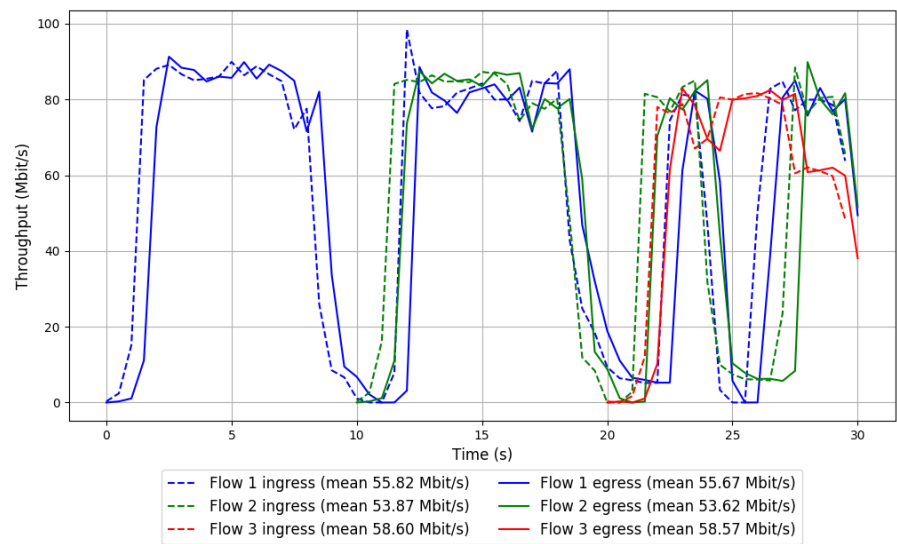


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 20:07:36
End at: 2018-06-05 20:08:06
Local clock offset: 0.003 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 110.37 Mbit/s
95th percentile per-packet one-way delay: 86.369 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 55.67 Mbit/s
95th percentile per-packet one-way delay: 86.369 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 53.62 Mbit/s
95th percentile per-packet one-way delay: 86.409 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 58.57 Mbit/s
95th percentile per-packet one-way delay: 86.250 ms
Loss rate: 1.79%

Run 3: Report of QUIC Cubic — Data Link

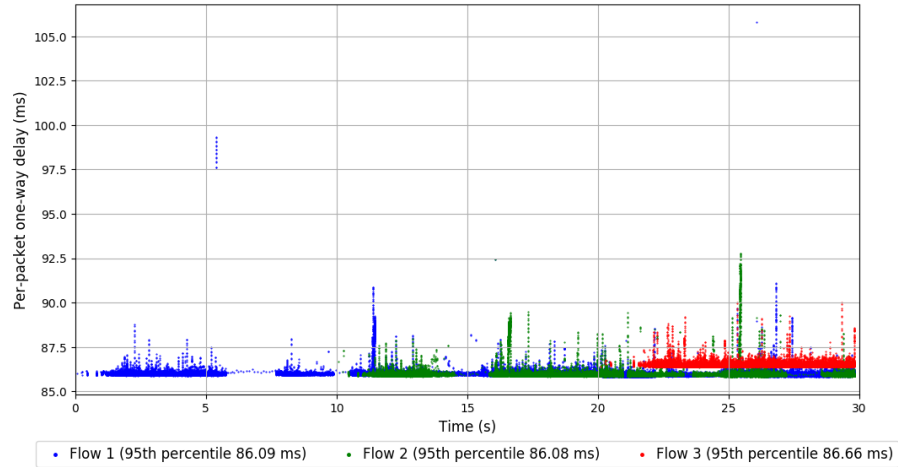
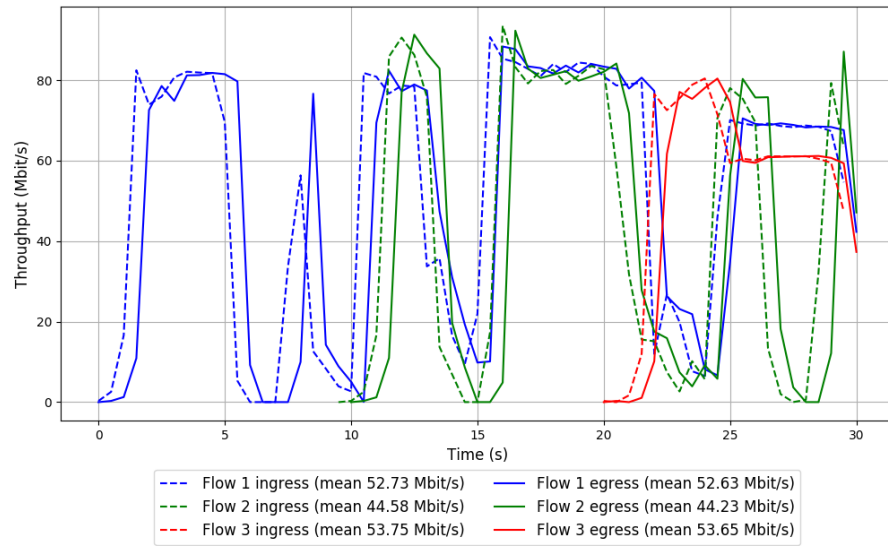


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-05 20:30:20
End at: 2018-06-05 20:30:50
Local clock offset: -0.157 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.49 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 52.63 Mbit/s
95th percentile per-packet one-way delay: 86.094 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 86.080 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 86.657 ms
Loss rate: 1.93%

Run 4: Report of QUIC Cubic — Data Link

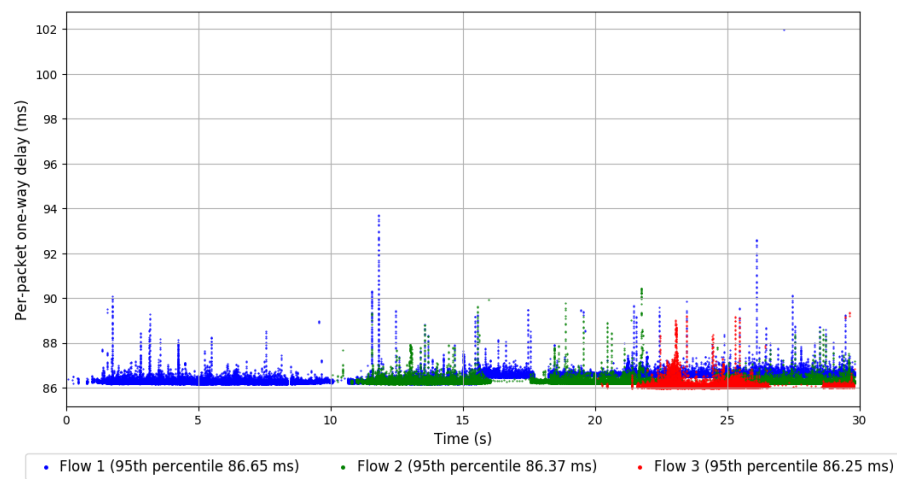
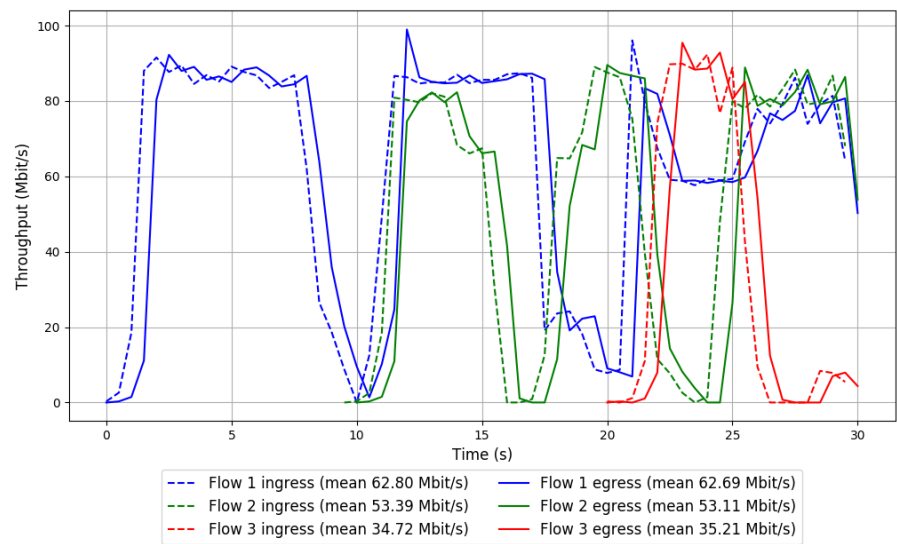


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-05 20:52:45
End at: 2018-06-05 20:53:15
Local clock offset: -0.107 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.45 Mbit/s
95th percentile per-packet one-way delay: 86.620 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 86.648 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 53.11 Mbit/s
95th percentile per-packet one-way delay: 86.366 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 86.252 ms
Loss rate: 0.35%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-05 21:15:27

End at: 2018-06-05 21:15:57

Local clock offset: -0.302 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-06 00:20:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.89 Mbit/s

95th percentile per-packet one-way delay: 86.036 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 85.957 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 86.056 ms

Loss rate: 1.41%

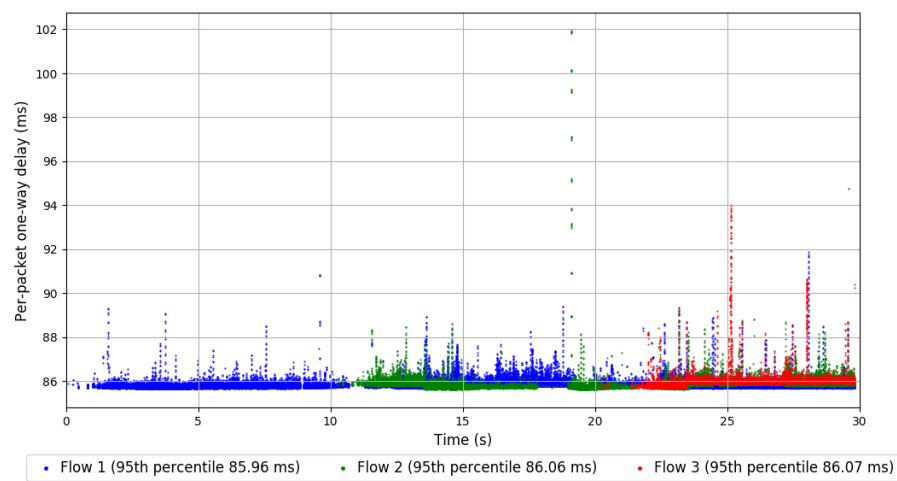
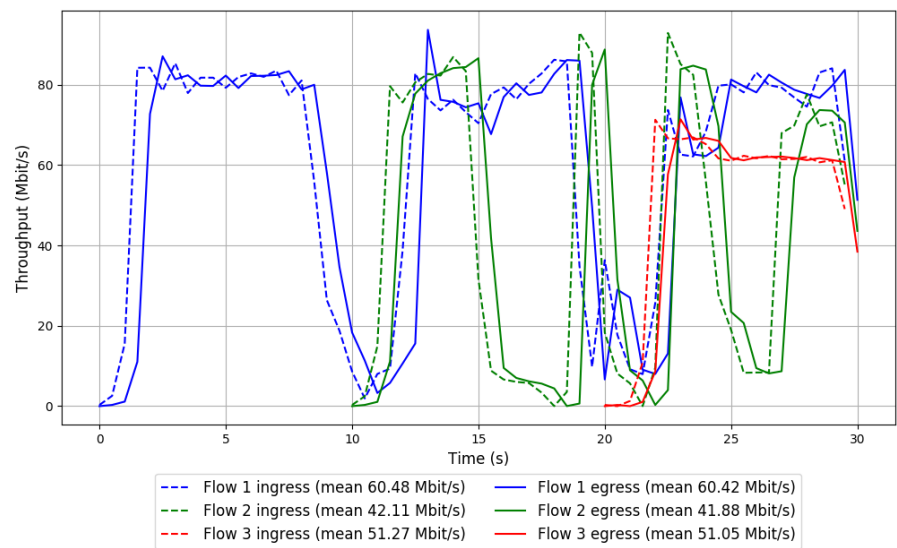
-- Flow 3:

Average throughput: 51.05 Mbit/s

95th percentile per-packet one-way delay: 86.073 ms

Loss rate: 2.12%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-05 21:38:03

End at: 2018-06-05 21:38:33

Local clock offset: -0.152 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-06 00:20:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 86.444 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 86.148 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 41.21 Mbit/s

95th percentile per-packet one-way delay: 86.524 ms

Loss rate: 1.29%

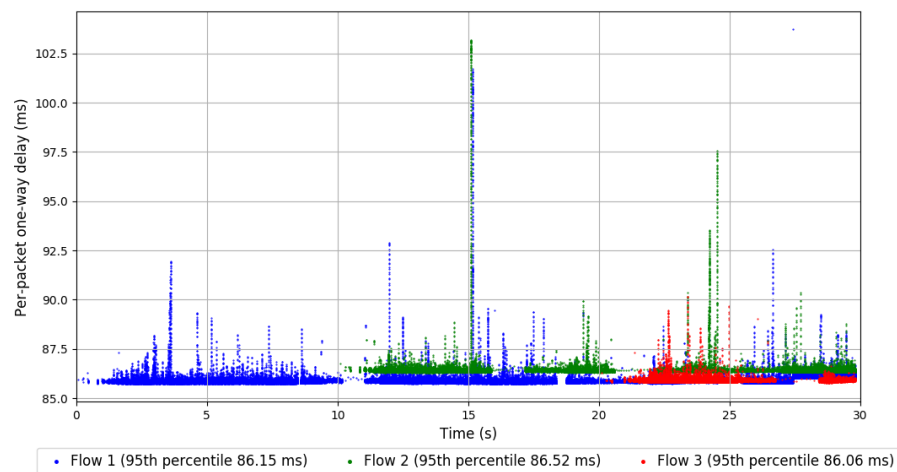
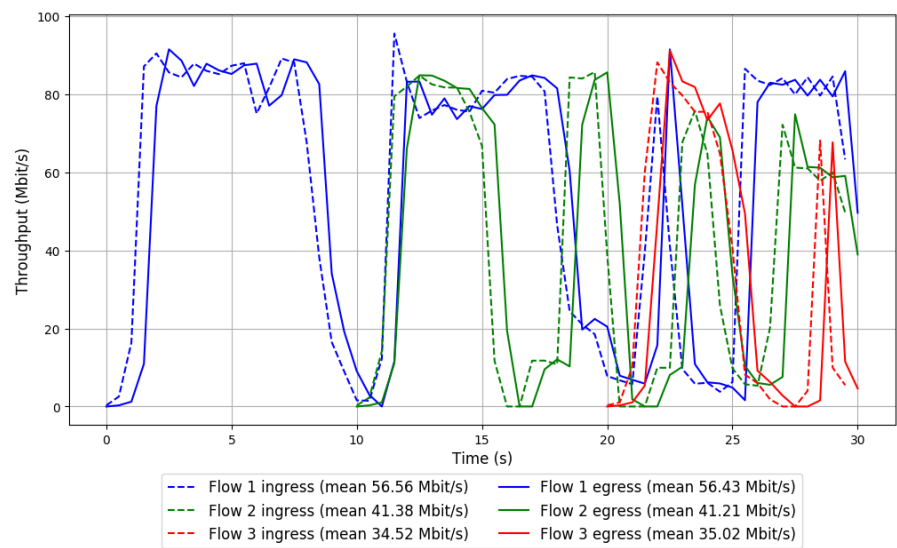
-- Flow 3:

Average throughput: 35.02 Mbit/s

95th percentile per-packet one-way delay: 86.064 ms

Loss rate: 0.33%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-05 22:00:41

End at: 2018-06-05 22:01:11

Local clock offset: 0.04 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-06 00:20:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.31 Mbit/s

95th percentile per-packet one-way delay: 86.316 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 86.200 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 86.375 ms

Loss rate: 0.91%

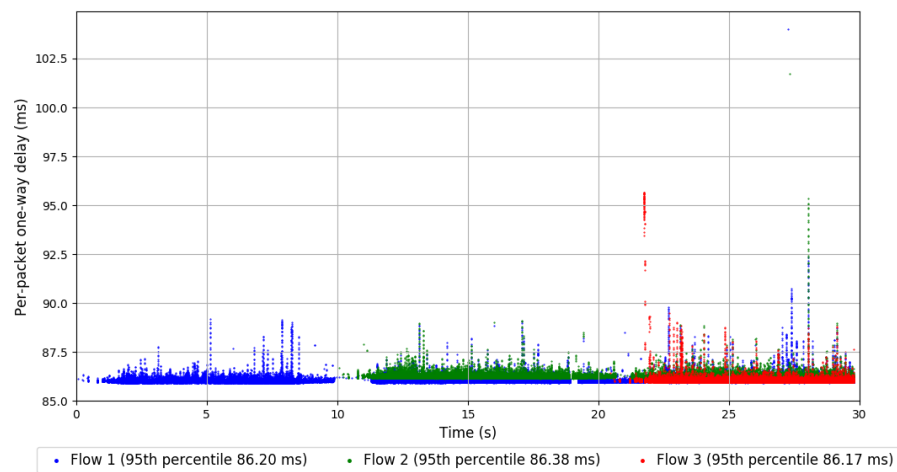
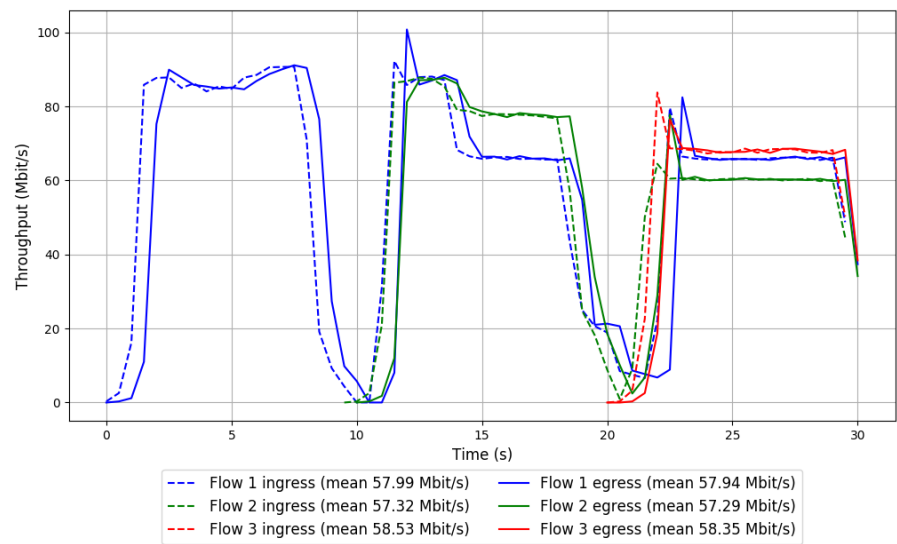
-- Flow 3:

Average throughput: 58.35 Mbit/s

95th percentile per-packet one-way delay: 86.168 ms

Loss rate: 2.12%

Run 8: Report of QUIC Cubic — Data Link

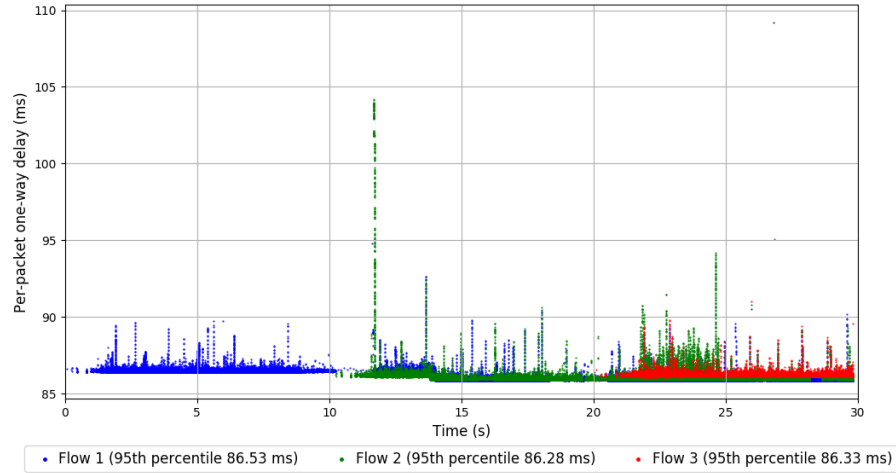
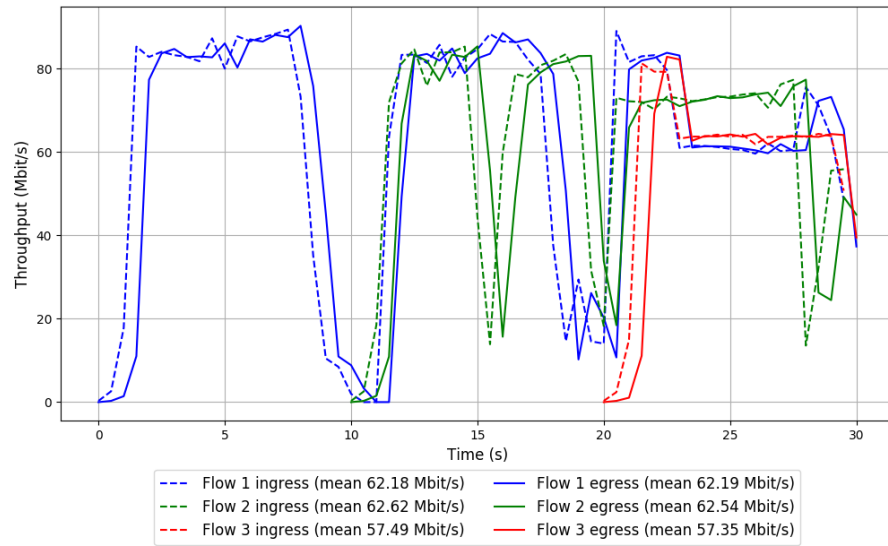


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-05 22:23:06
End at: 2018-06-05 22:23:36
Local clock offset: -0.05 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.40 Mbit/s
95th percentile per-packet one-way delay: 86.508 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 86.532 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 86.279 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 86.331 ms
Loss rate: 1.94%

Run 9: Report of QUIC Cubic — Data Link

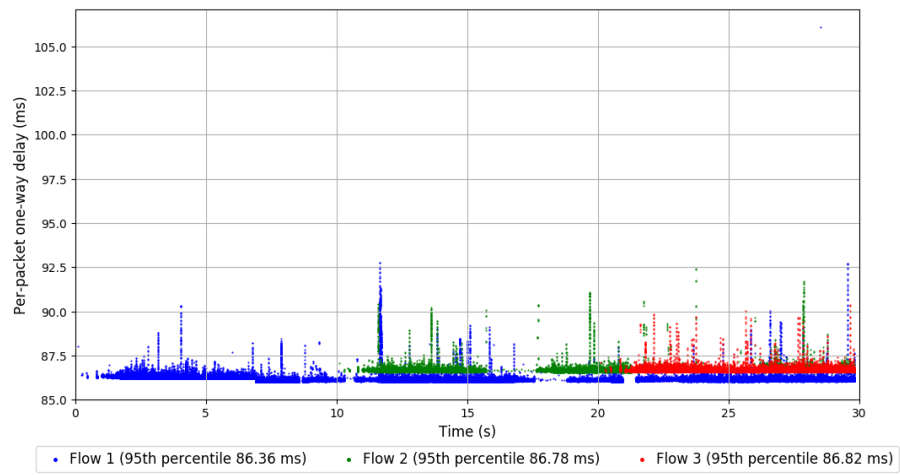
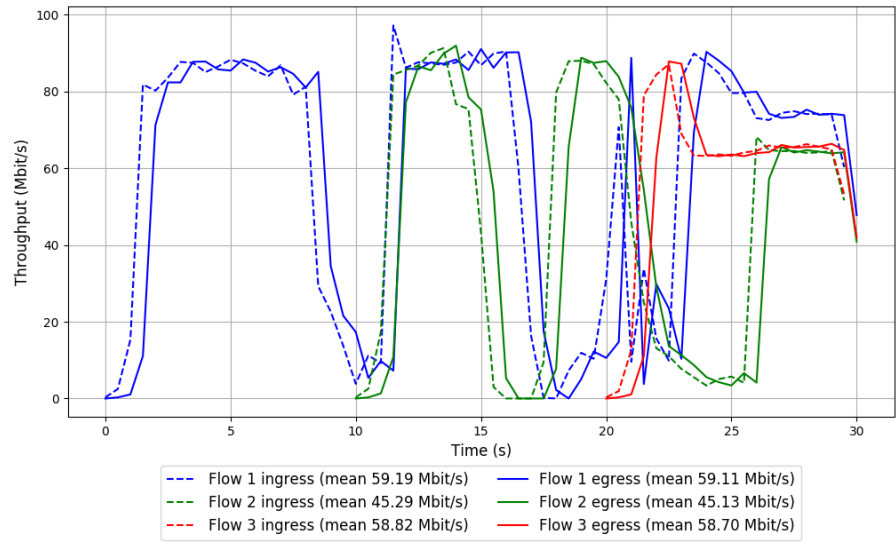


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-05 22:45:34
End at: 2018-06-05 22:46:04
Local clock offset: 0.17 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 108.19 Mbit/s
95th percentile per-packet one-way delay: 86.743 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 59.11 Mbit/s
95th percentile per-packet one-way delay: 86.355 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 86.777 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 58.70 Mbit/s
95th percentile per-packet one-way delay: 86.820 ms
Loss rate: 1.95%

Run 10: Report of QUIC Cubic — Data Link

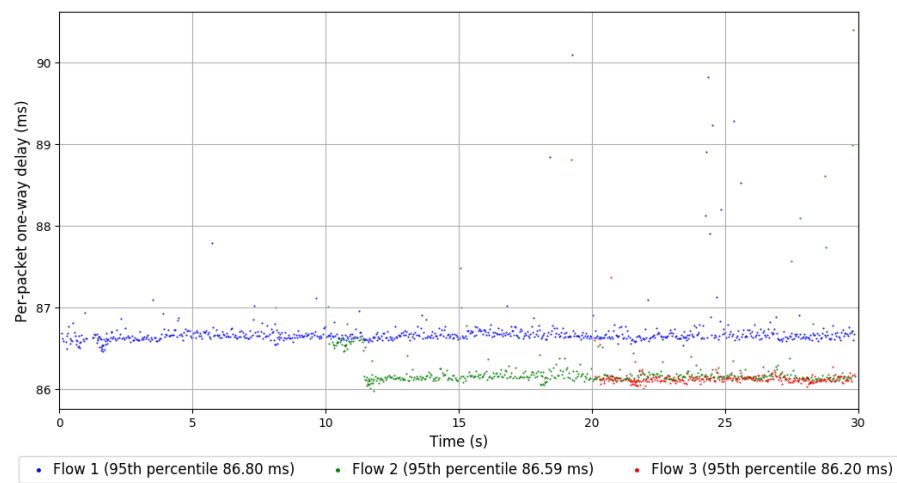
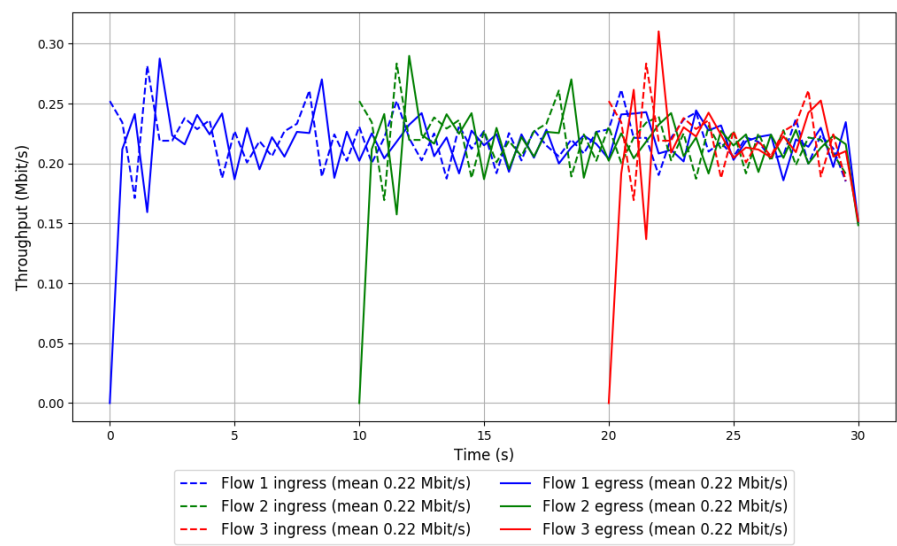


```
Run 1: Statistics of SReAM

Start at: 2018-06-05 19:20:59
End at: 2018-06-05 19:21:29
Local clock offset: 0.322 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-06 00:20:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.757 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.801 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.588 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.197 ms
Loss rate: 1.85%
```

Run 1: Report of SCSReAM — Data Link

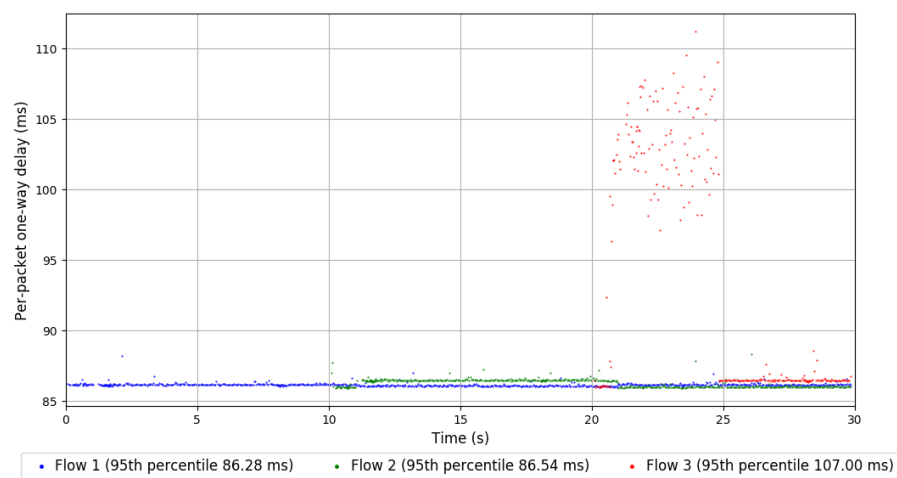
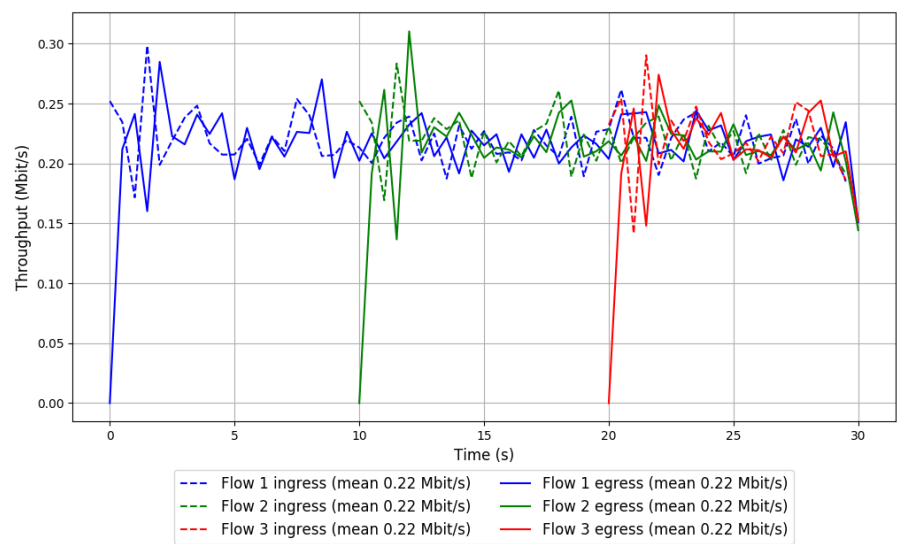


Run 2: Statistics of SReAM

Start at: 2018-06-05 19:43:39
End at: 2018-06-05 19:44:09
Local clock offset: 0.173 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 101.450 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.279 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.538 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.000 ms
Loss rate: 1.51%

Run 2: Report of SReAM — Data Link

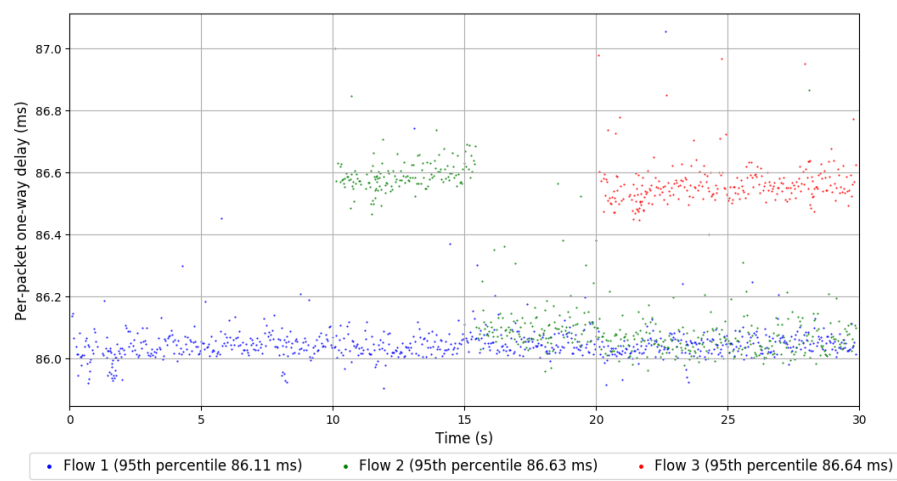
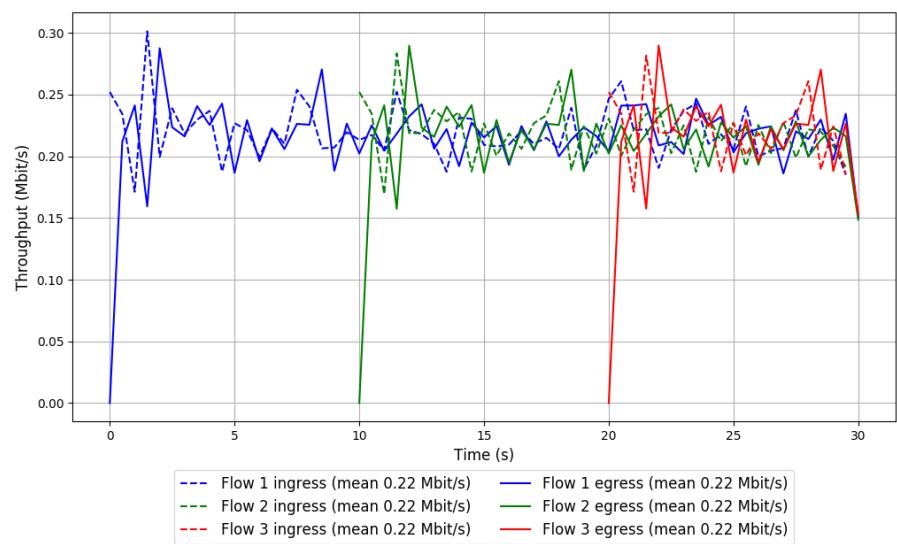


Run 3: Statistics of SReAM

Start at: 2018-06-05 20:06:25
End at: 2018-06-05 20:06:55
Local clock offset: -0.072 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.607 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.112 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.630 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.641 ms
Loss rate: 1.46%

Run 3: Report of SReAM — Data Link

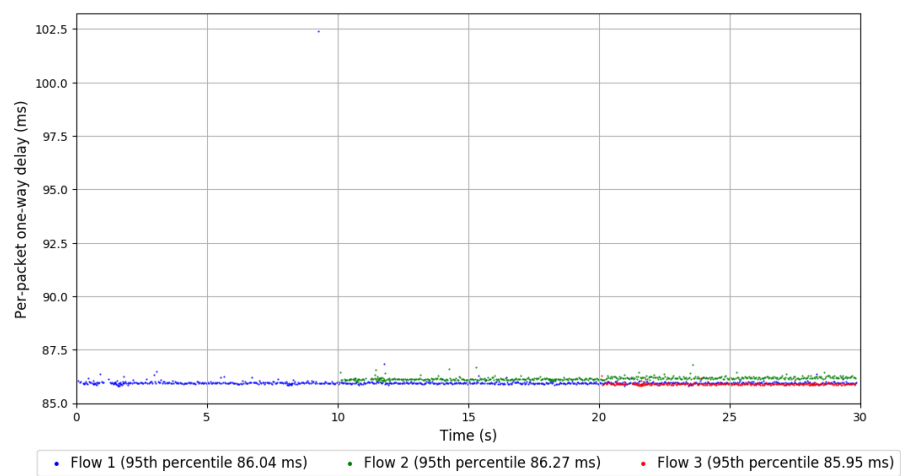
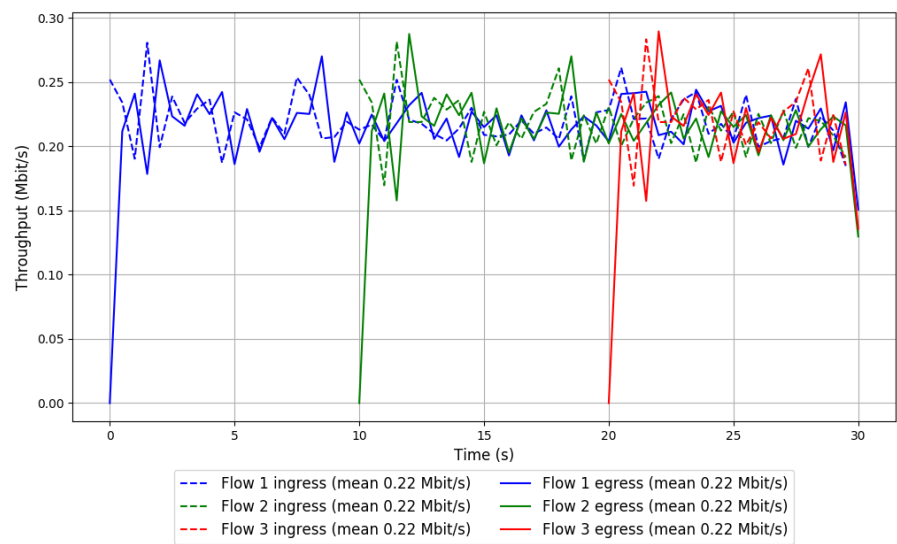


Run 4: Statistics of SReAM

Start at: 2018-06-05 20:29:09
End at: 2018-06-05 20:29:39
Local clock offset: -0.311 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.229 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.036 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.274 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.955 ms
Loss rate: 1.85%

Run 4: Report of SReAM — Data Link

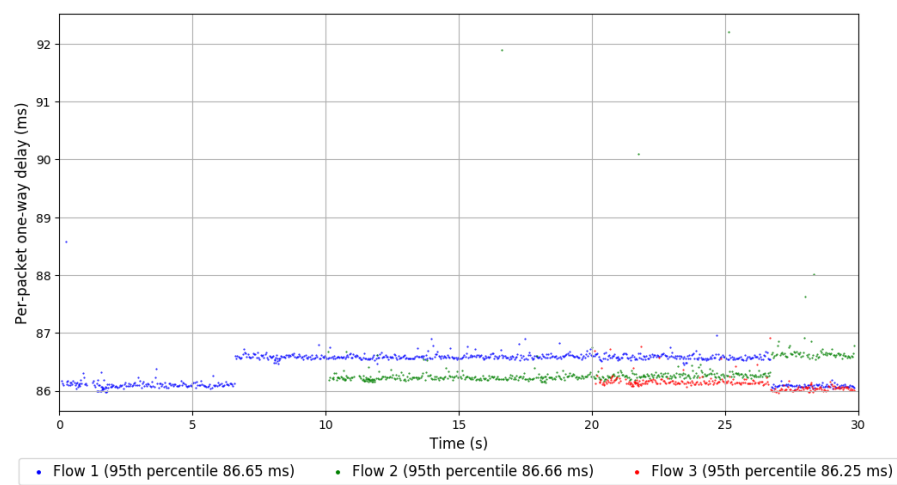
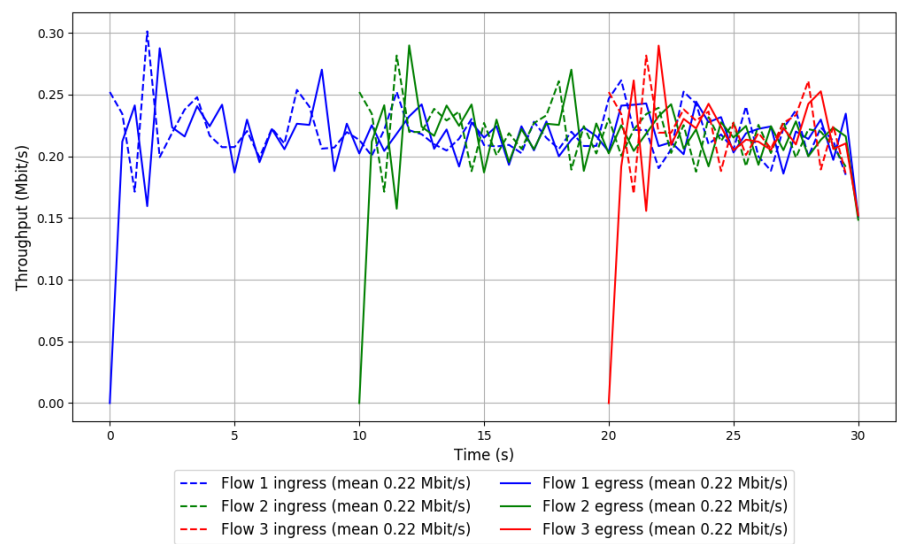


Run 5: Statistics of SReAM

Start at: 2018-06-05 20:51:34
End at: 2018-06-05 20:52:04
Local clock offset: -0.239 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.647 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.653 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.656 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.254 ms
Loss rate: 1.85%

Run 5: Report of SReAM — Data Link

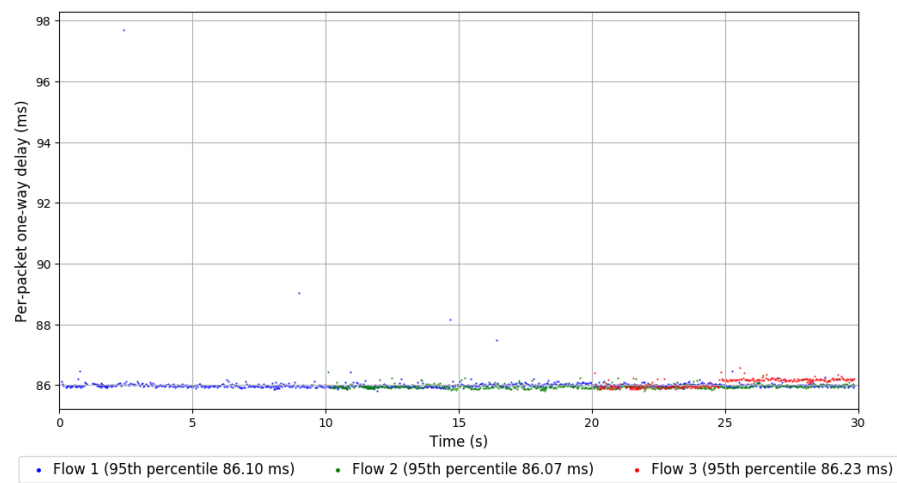
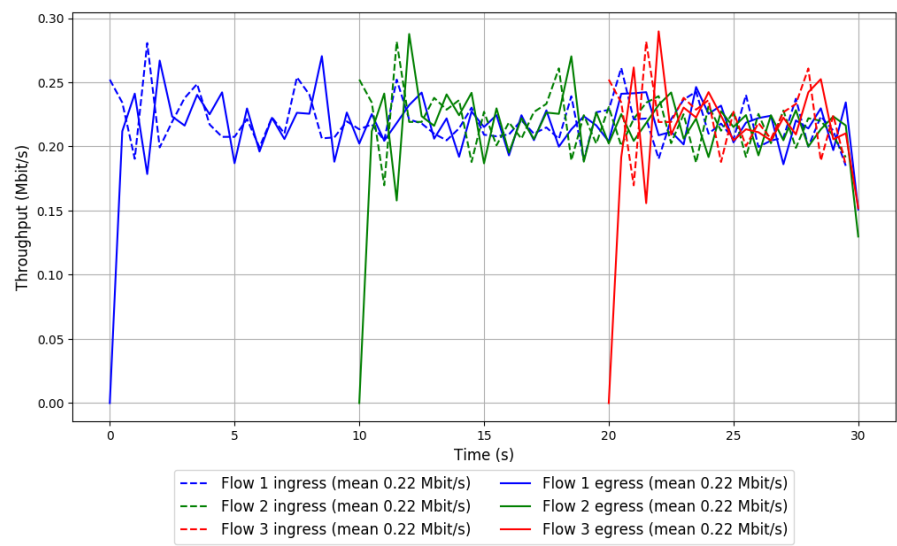


Run 6: Statistics of SReAM

Start at: 2018-06-05 21:14:16
End at: 2018-06-05 21:14:46
Local clock offset: -0.236 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.189 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.104 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.067 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.231 ms
Loss rate: 1.85%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-06-05 21:36:52

End at: 2018-06-05 21:37:22

Local clock offset: -0.45 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-06 00:20:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.230 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.152 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.258 ms

Loss rate: 1.04%

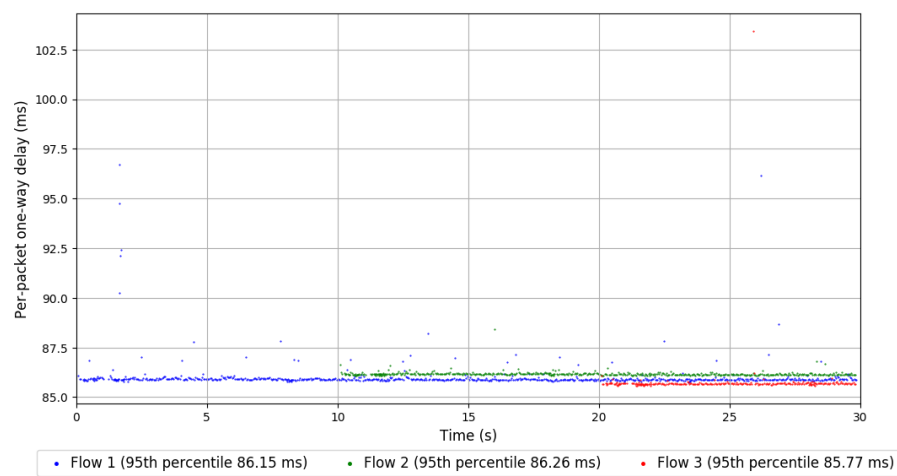
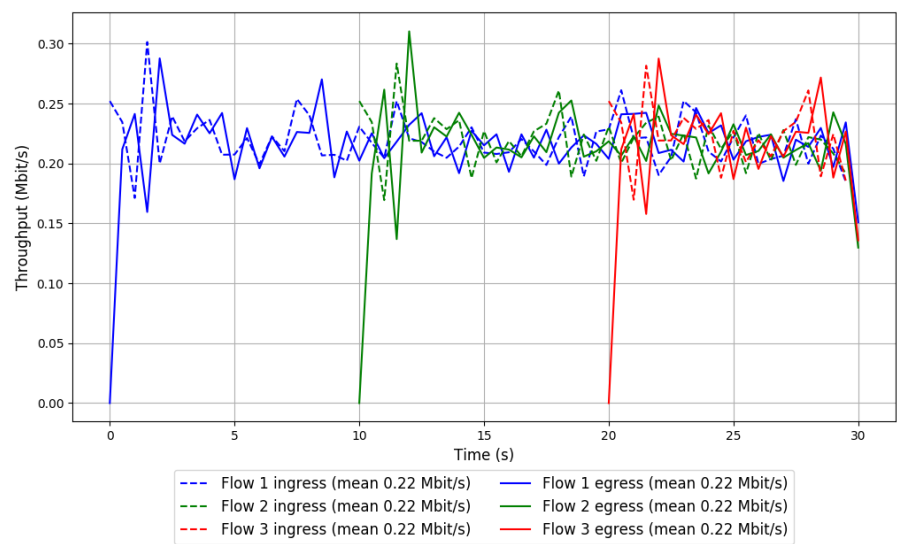
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.773 ms

Loss rate: 1.85%

Run 7: Report of SCSReAM — Data Link

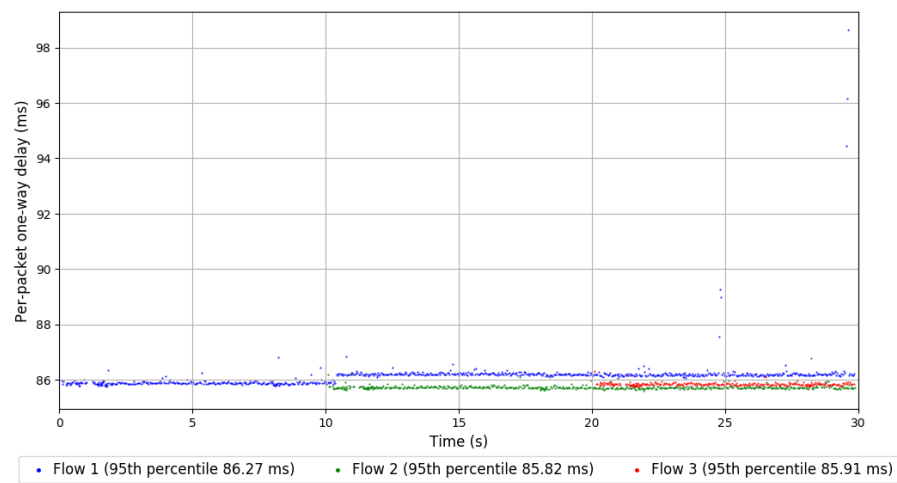
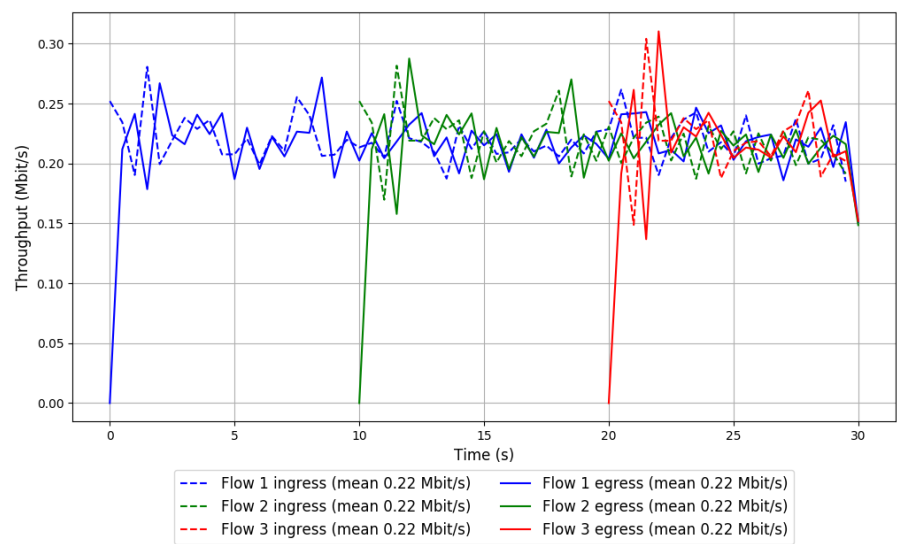


Run 8: Statistics of SReAM

Start at: 2018-06-05 21:59:30
End at: 2018-06-05 22:00:00
Local clock offset: -0.354 ms
Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.241 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.273 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.816 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.914 ms
Loss rate: 1.85%

Run 8: Report of SReAM — Data Link

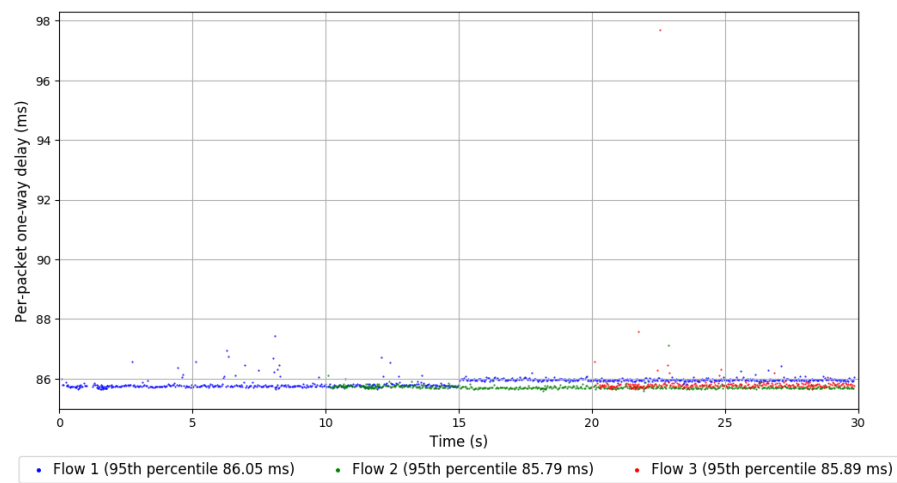
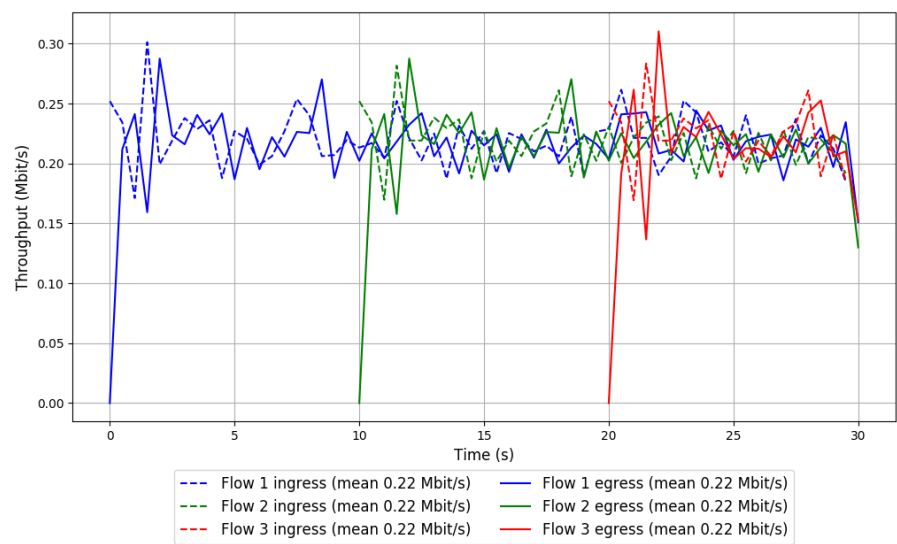


Run 9: Statistics of SReAM

Start at: 2018-06-05 22:21:55
End at: 2018-06-05 22:22:25
Local clock offset: -0.335 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.012 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.047 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.790 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.893 ms
Loss rate: 1.85%

Run 9: Report of SReAM — Data Link

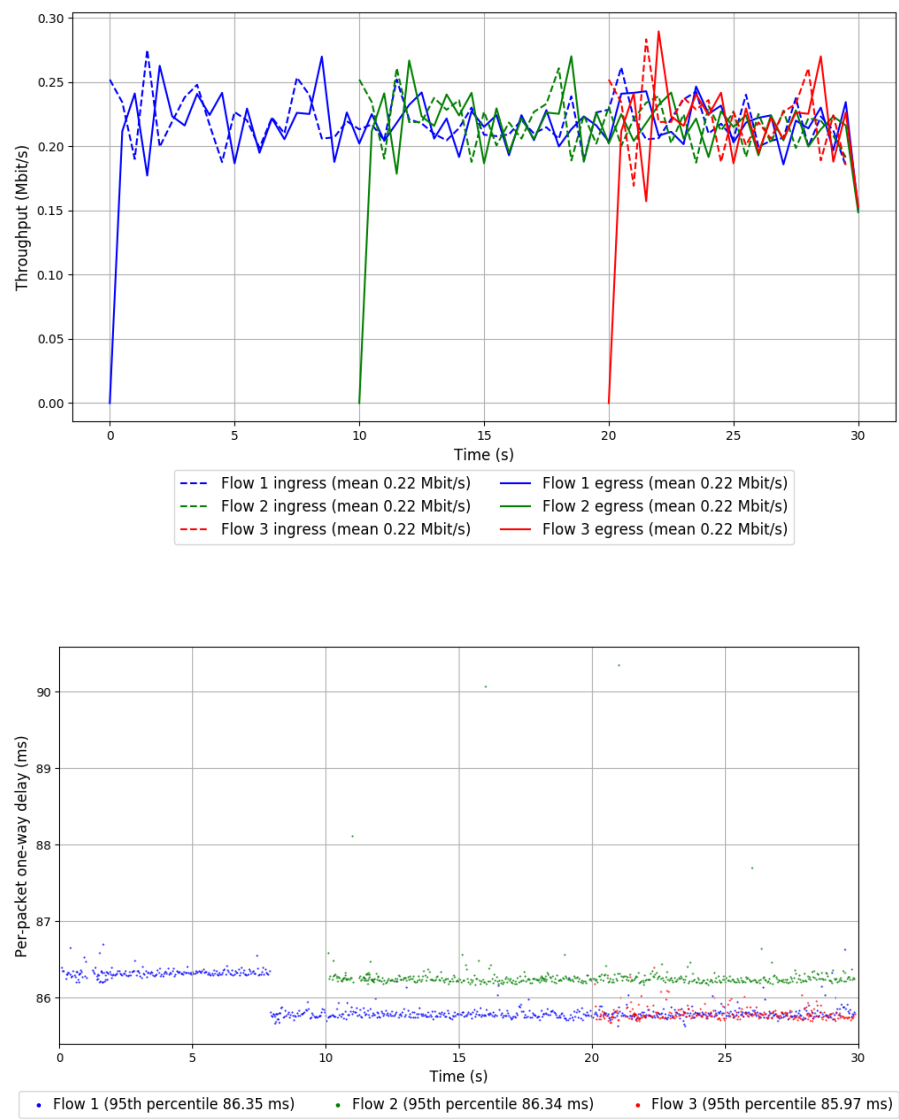


Run 10: Statistics of SReAM

Start at: 2018-06-05 22:44:22
End at: 2018-06-05 22:44:52
Local clock offset: -0.322 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.341 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.349 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.343 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.972 ms
Loss rate: 1.46%

Run 10: Report of SReAM — Data Link

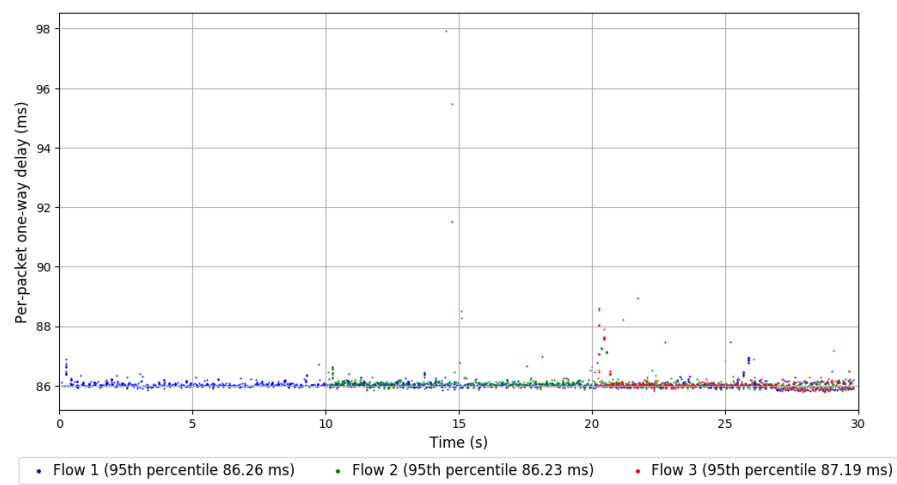
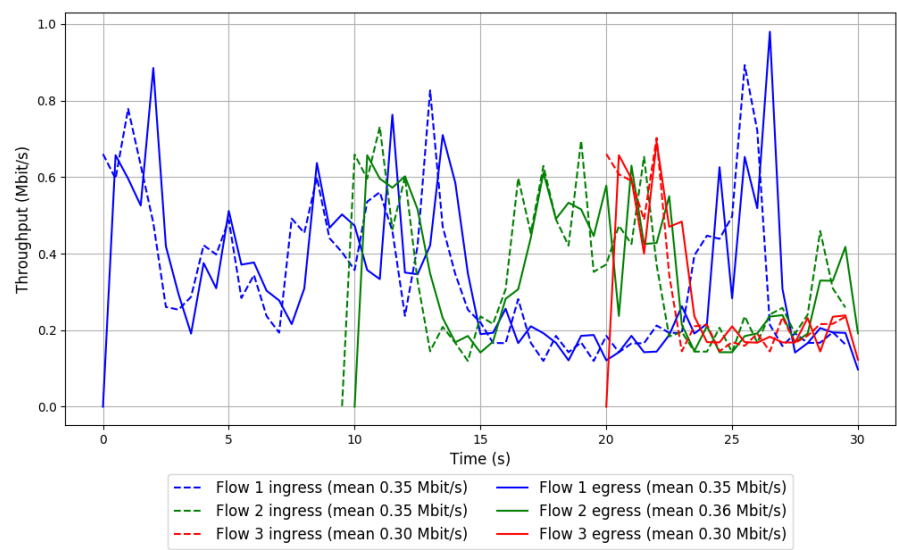


Run 1: Statistics of Sprout

Start at: 2018-06-05 19:28:03
End at: 2018-06-05 19:28:33
Local clock offset: 0.151 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 86.296 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.260 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 86.232 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 87.193 ms
Loss rate: 1.92%

Run 1: Report of Sprout — Data Link

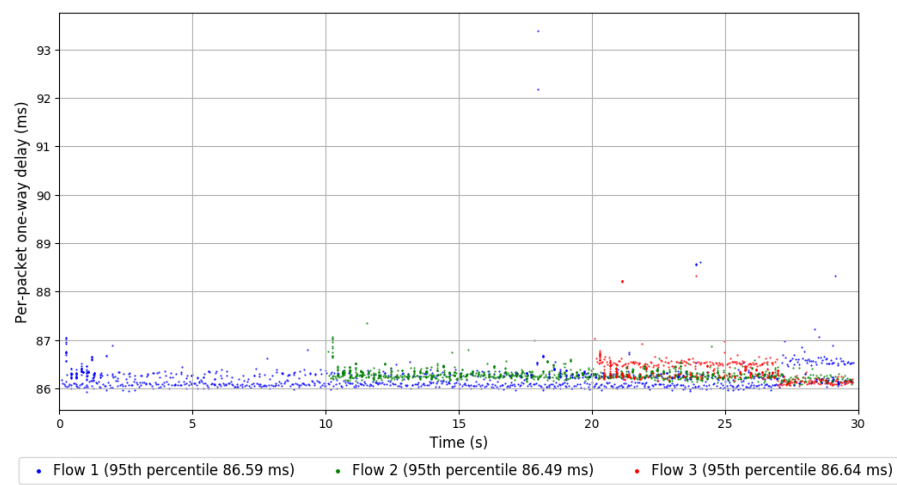
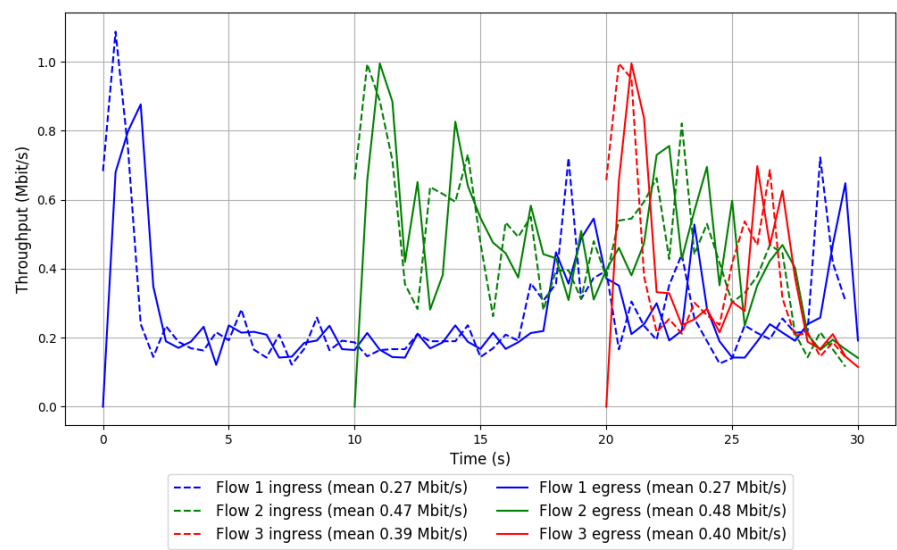


Run 2: Statistics of Sprout

Start at: 2018-06-05 19:50:43
End at: 2018-06-05 19:51:13
Local clock offset: 0.128 ms
Remote clock offset: -0.101 ms

```
# Below is generated by plot.py at 2018-06-06 00:20:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.591 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 86.486 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.640 ms
Loss rate: 0.94%
```

Run 2: Report of Sprout — Data Link

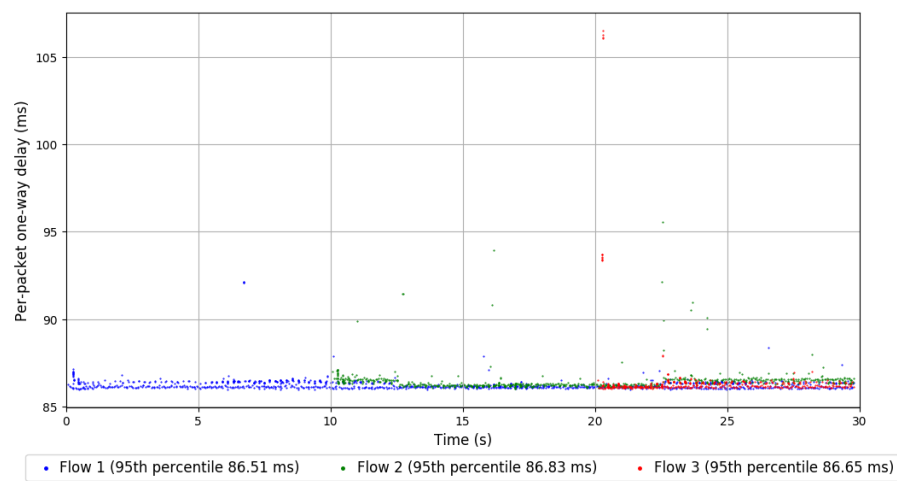
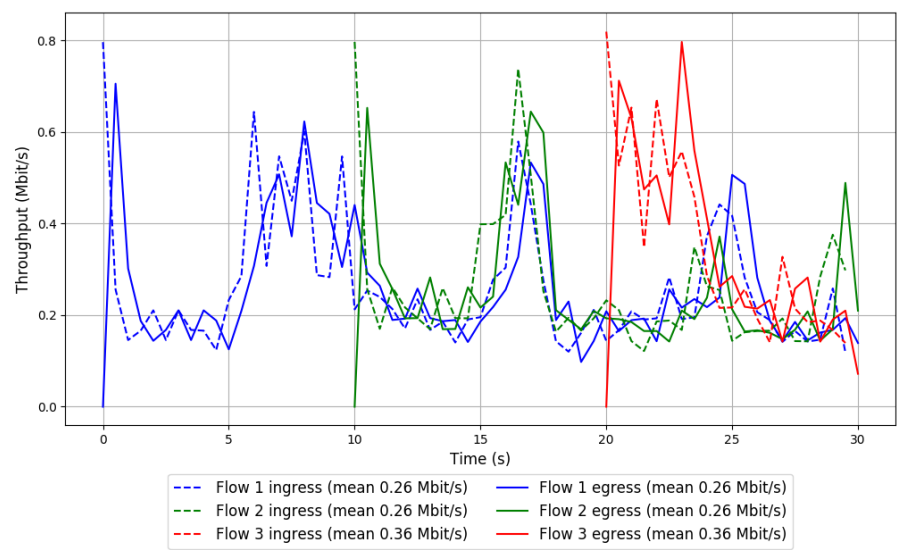


Run 3: Statistics of Sprout

Start at: 2018-06-05 20:13:28
End at: 2018-06-05 20:13:58
Local clock offset: -0.056 ms
Remote clock offset: -0.151 ms

```
# Below is generated by plot.py at 2018-06-06 00:20:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.507 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.833 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 86.651 ms
Loss rate: 0.97%
```

Run 3: Report of Sprout — Data Link

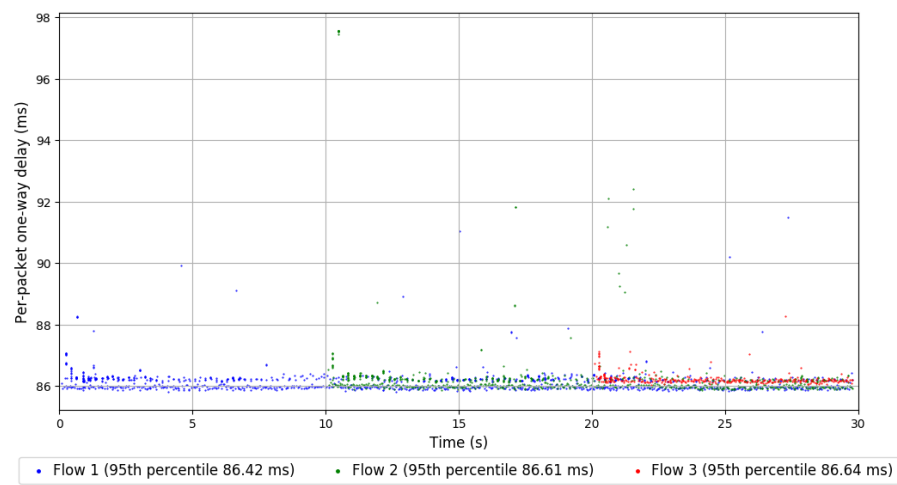
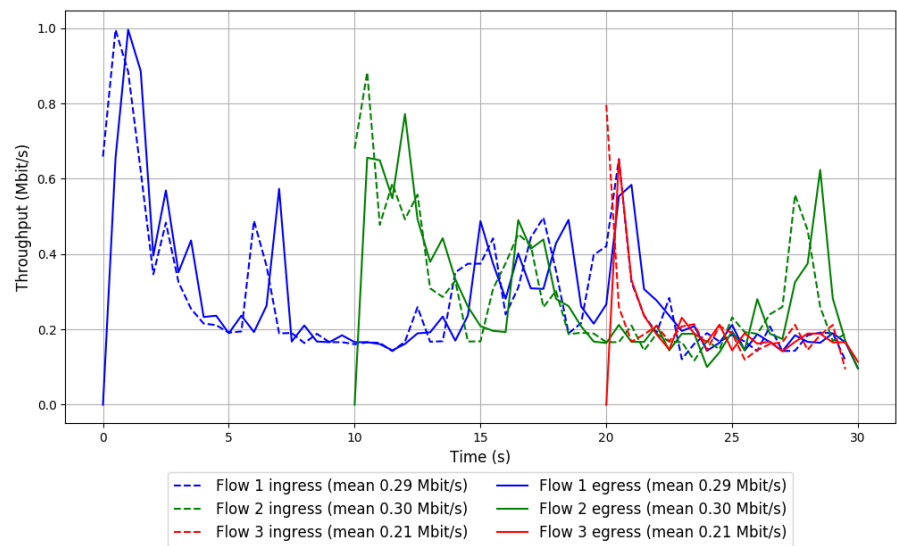


Run 4: Statistics of Sprout

Start at: 2018-06-05 20:36:07
End at: 2018-06-05 20:36:37
Local clock offset: -0.254 ms
Remote clock offset: -0.031 ms

```
# Below is generated by plot.py at 2018-06-06 00:20:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 86.518 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.423 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.613 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 1.13%
```

Run 4: Report of Sprout — Data Link

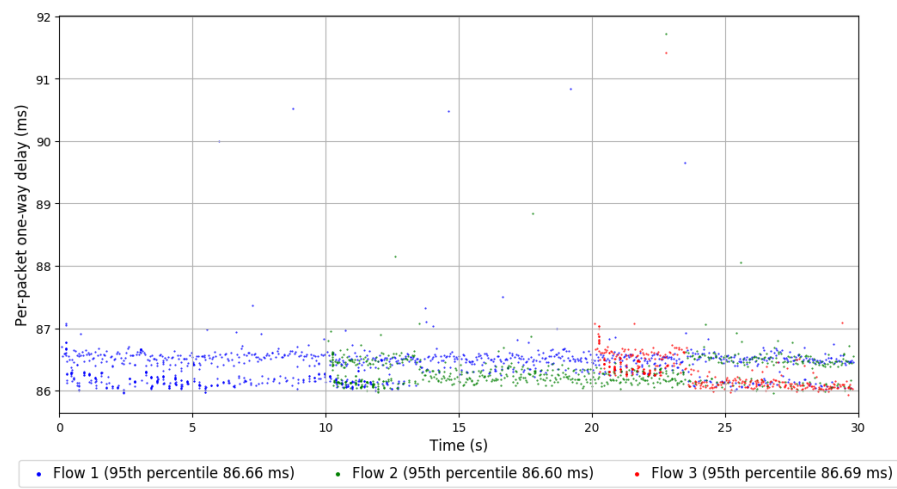
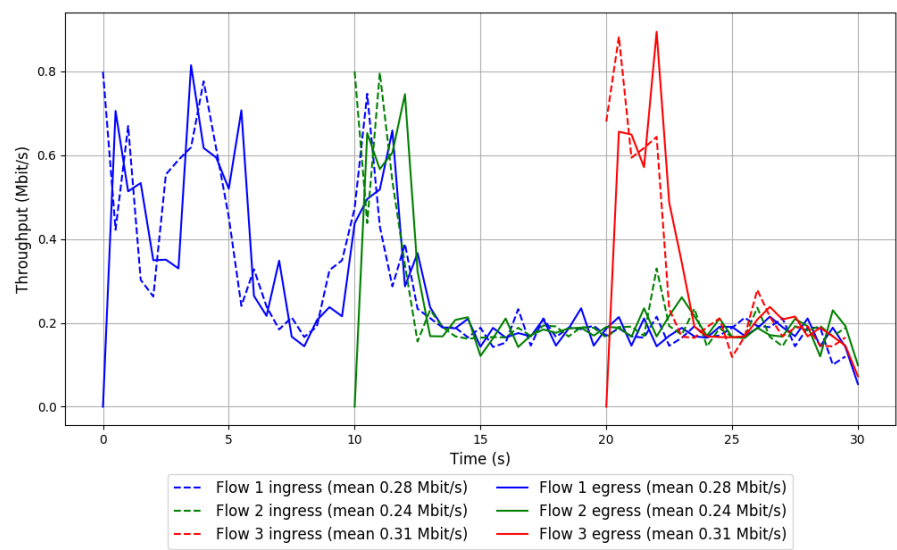


Run 5: Statistics of Sprout

Start at: 2018-06-05 20:58:37
End at: 2018-06-05 20:59:07
Local clock offset: -0.112 ms
Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 86.660 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.662 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.601 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 1.53%

Run 5: Report of Sprout — Data Link

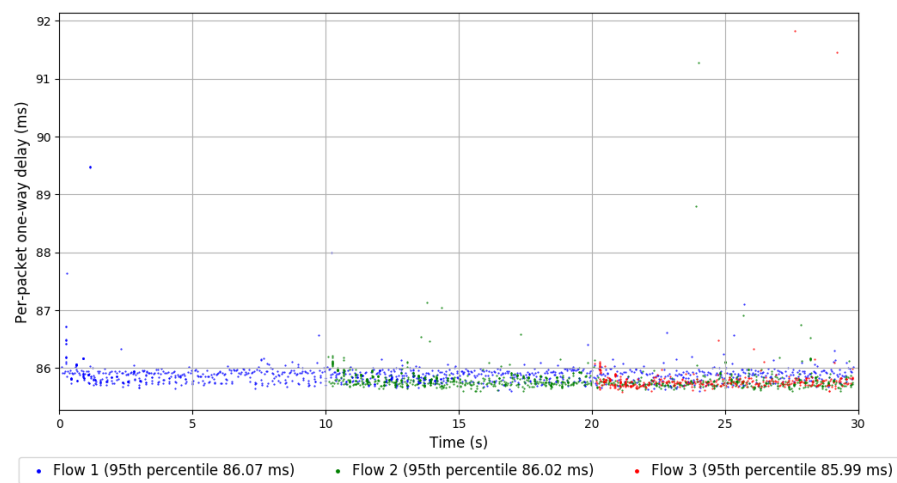
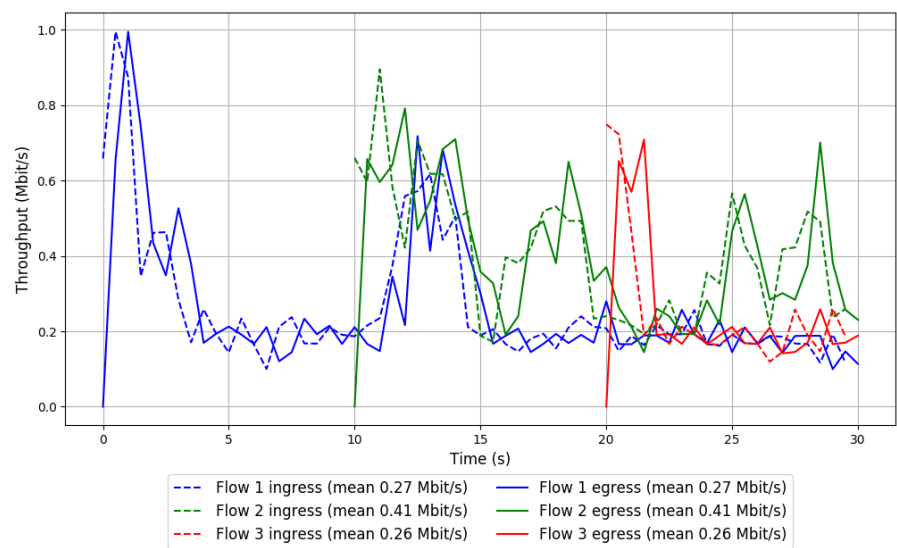


Run 6: Statistics of Sprout

Start at: 2018-06-05 21:21:20
End at: 2018-06-05 21:21:50
Local clock offset: -0.499 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 86.056 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.070 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 86.024 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 85.990 ms
Loss rate: 1.78%

Run 6: Report of Sprout — Data Link

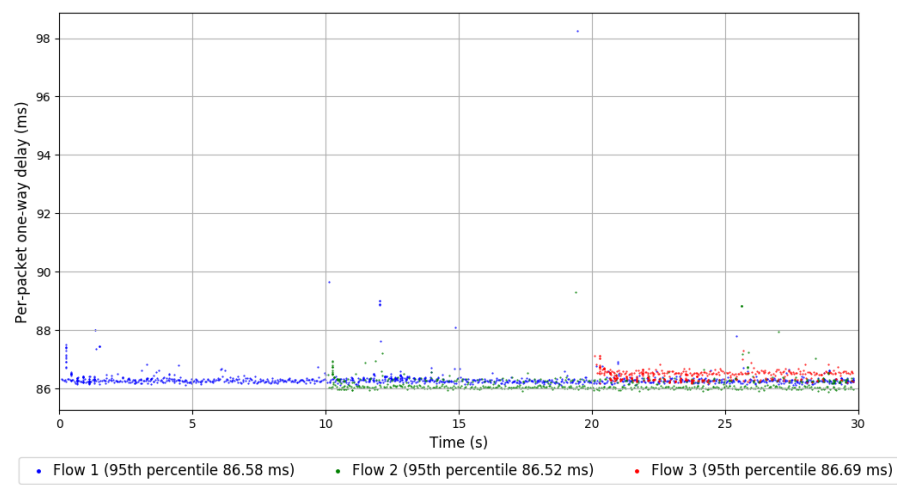
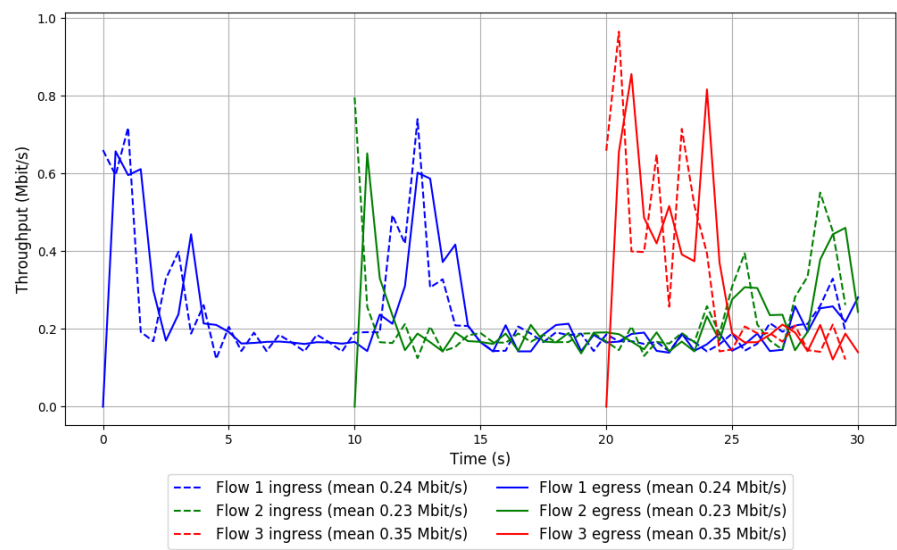


Run 7: Statistics of Sprout

Start at: 2018-06-05 21:43:59
End at: 2018-06-05 21:44:29
Local clock offset: -0.077 ms
Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 86.654 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.583 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.515 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.40%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-05 22:06:15

End at: 2018-06-05 22:06:45

Local clock offset: 0.06 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-06 00:20:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 86.532 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 0.29 Mbit/s

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

Loss rate: 0.27%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.465 ms

Loss rate: 0.54%

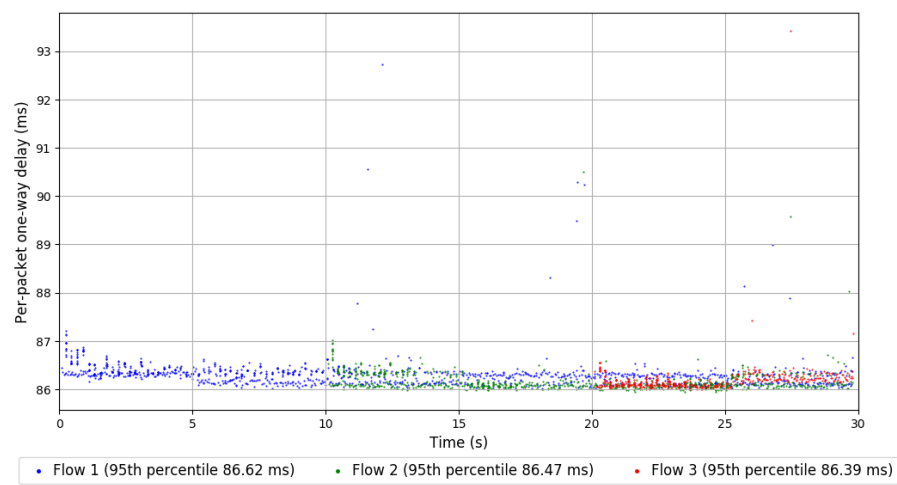
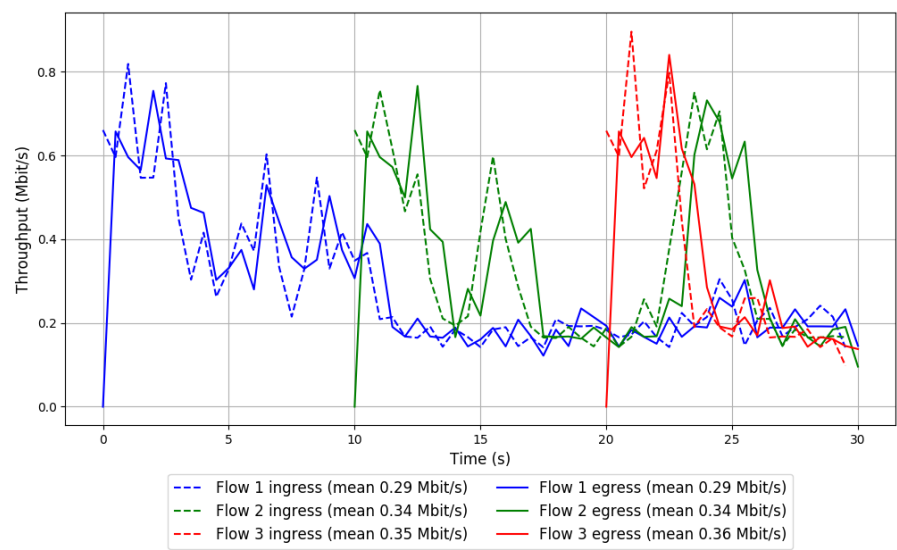
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 86.388 ms

Loss rate: 0.07%

Run 8: Report of Sprout — Data Link

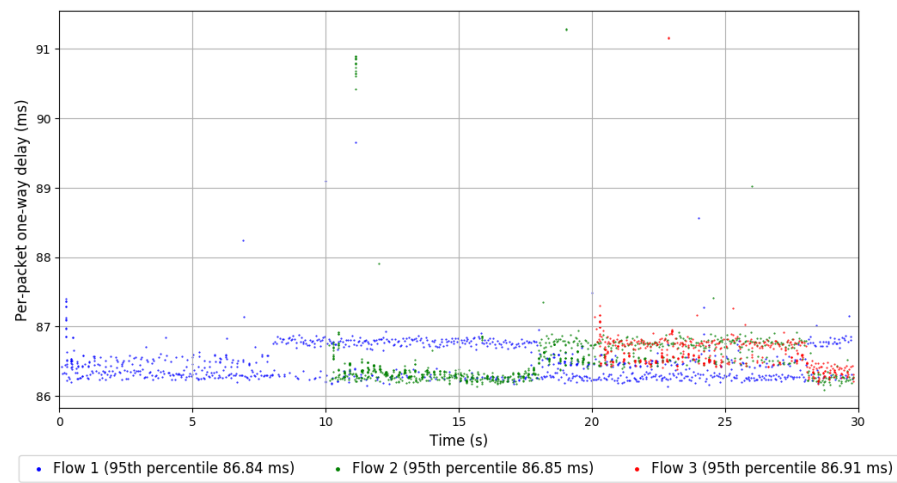
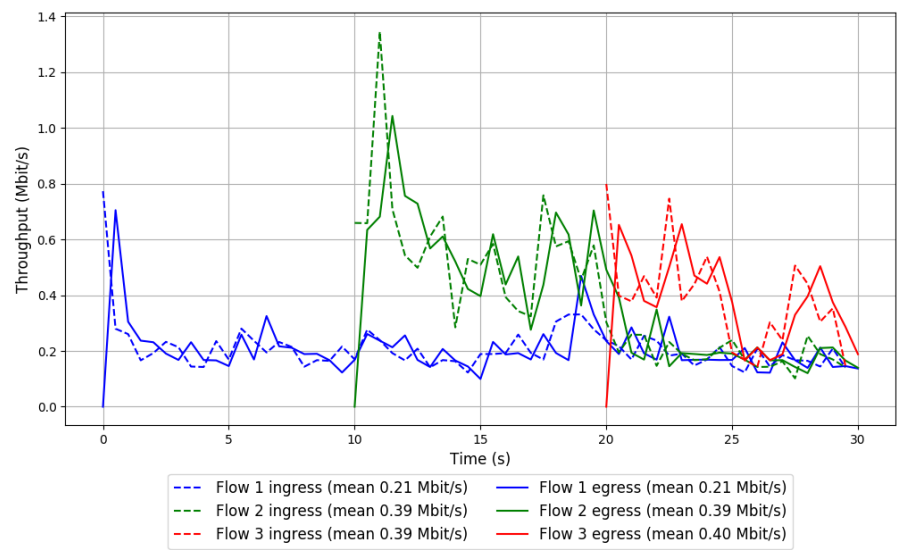


Run 9: Statistics of Sprout

Start at: 2018-06-05 22:28:42
End at: 2018-06-05 22:29:12
Local clock offset: 0.164 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 86.849 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.837 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.849 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.908 ms
Loss rate: 0.37%

Run 9: Report of Sprout — Data Link

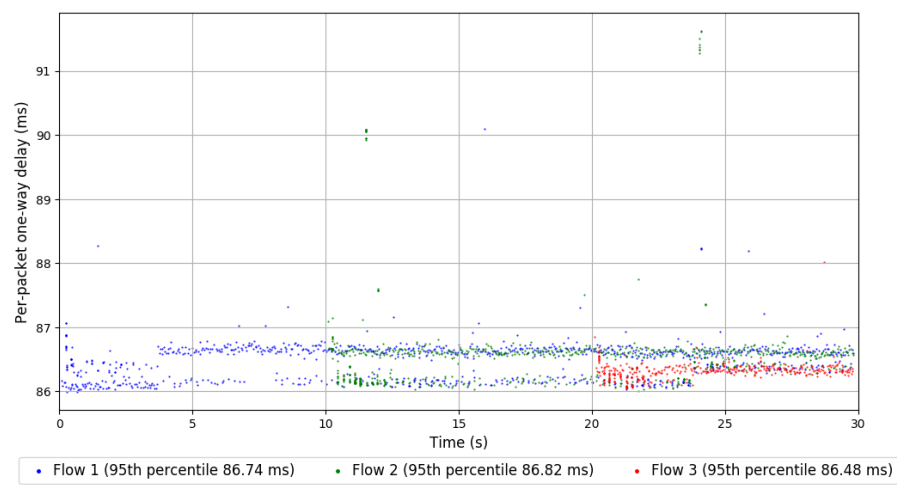
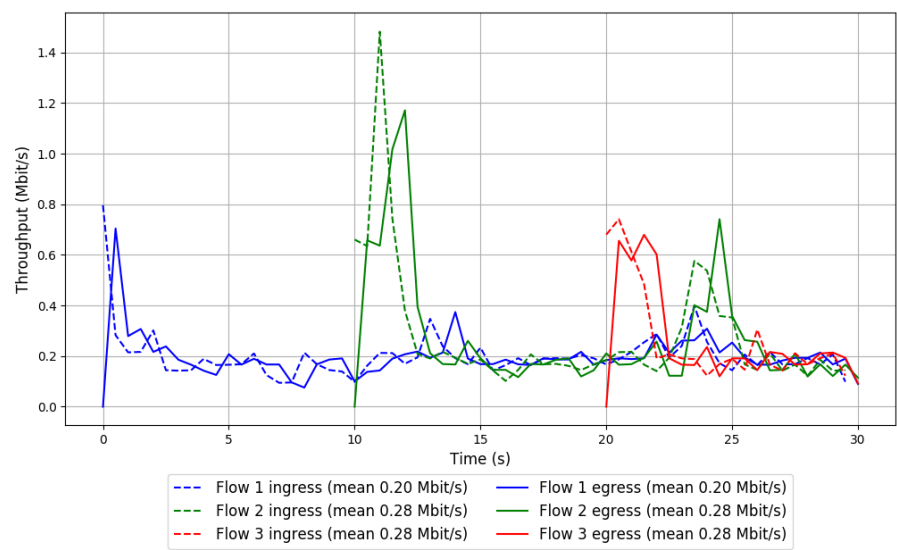


Run 10: Statistics of Sprout

Start at: 2018-06-05 22:51:27
End at: 2018-06-05 22:51:57
Local clock offset: 0.063 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-06 00:20:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 86.738 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 86.741 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.479 ms
Loss rate: 0.93%

Run 10: Report of Sprout — Data Link

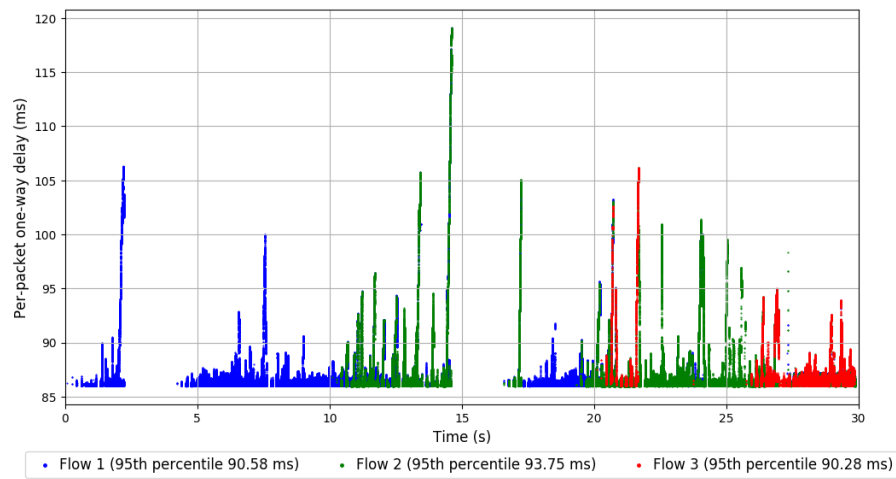
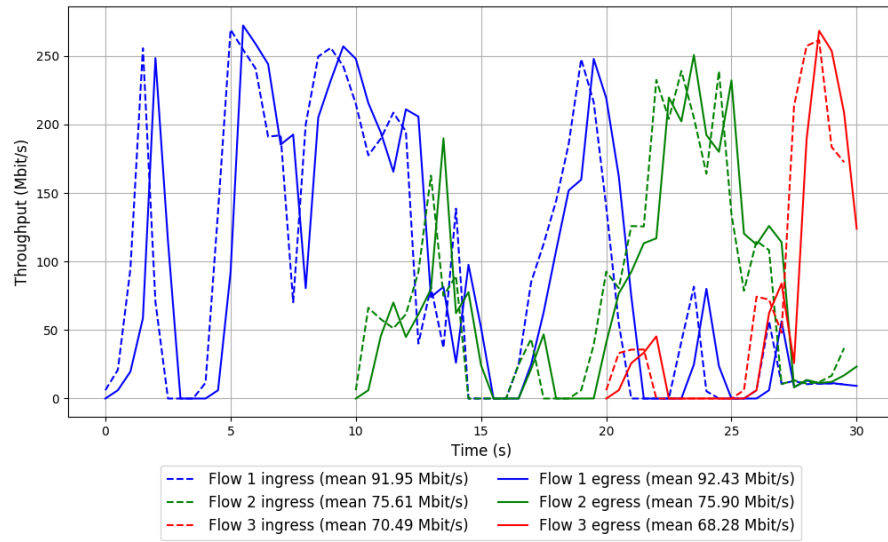


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 19:34:40
End at: 2018-06-05 19:35:10
Local clock offset: 0.423 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-06 00:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 165.20 Mbit/s
95th percentile per-packet one-way delay: 91.623 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 90.585 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 75.90 Mbit/s
95th percentile per-packet one-way delay: 93.755 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 90.277 ms
Loss rate: 4.82%
```

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

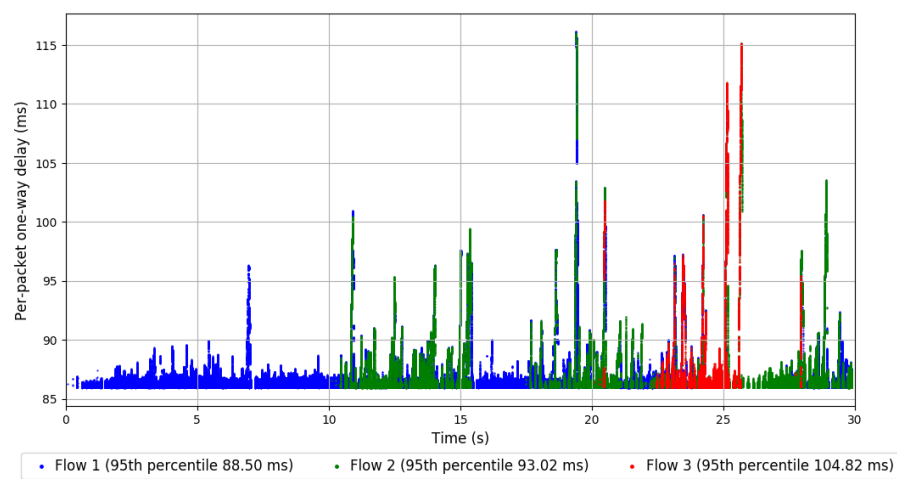
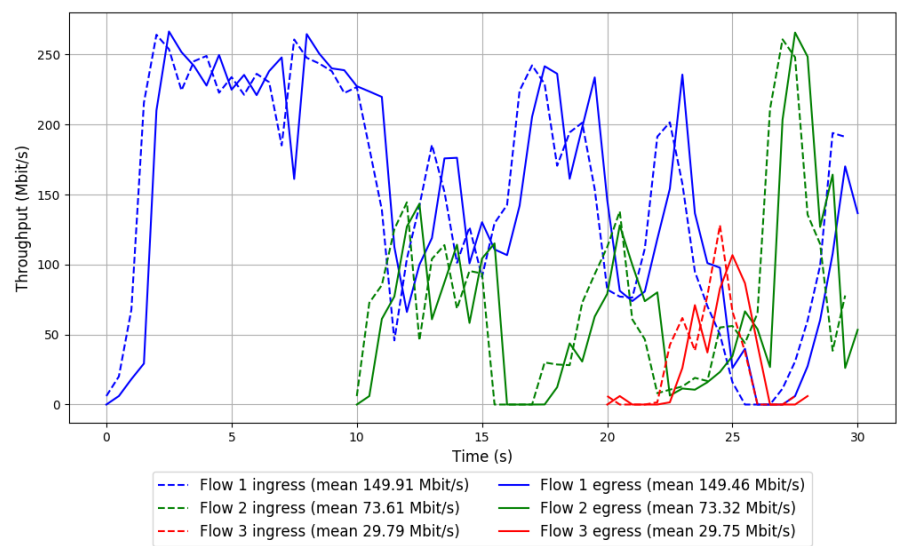


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 19:57:21
End at: 2018-06-05 19:57:51
Local clock offset: 0.063 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-06 00:26:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.98 Mbit/s
95th percentile per-packet one-way delay: 89.746 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 149.46 Mbit/s
95th percentile per-packet one-way delay: 88.498 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 73.32 Mbit/s
95th percentile per-packet one-way delay: 93.024 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 29.75 Mbit/s
95th percentile per-packet one-way delay: 104.817 ms
Loss rate: 0.00%
```

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

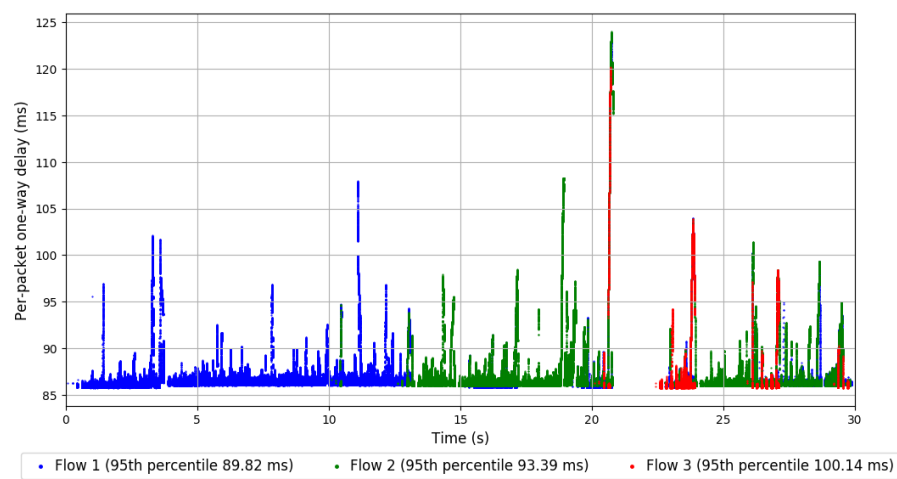
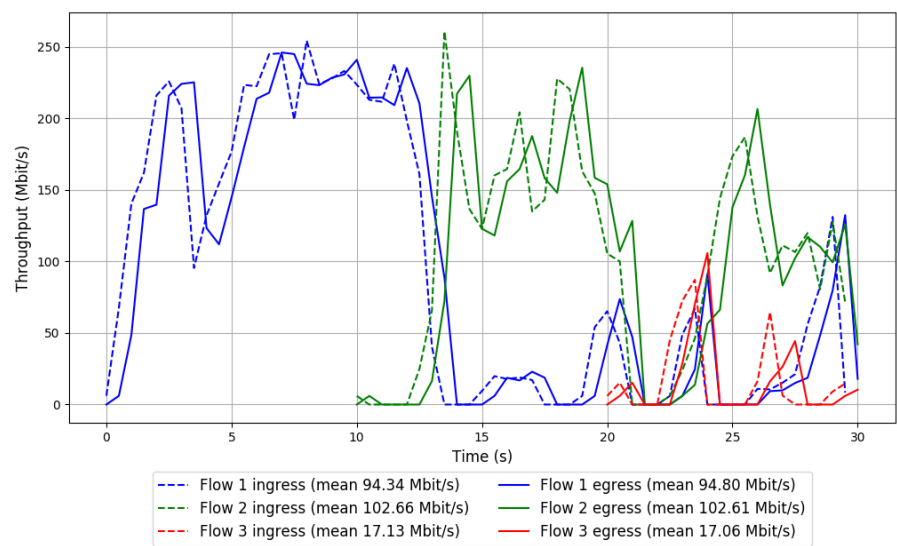


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 20:20:07
End at: 2018-06-05 20:20:37
Local clock offset: -0.213 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-06 00:26:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 168.23 Mbit/s
95th percentile per-packet one-way delay: 91.606 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 89.821 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 102.61 Mbit/s
95th percentile per-packet one-way delay: 93.390 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 17.06 Mbit/s
95th percentile per-packet one-way delay: 100.136 ms
Loss rate: 2.18%

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

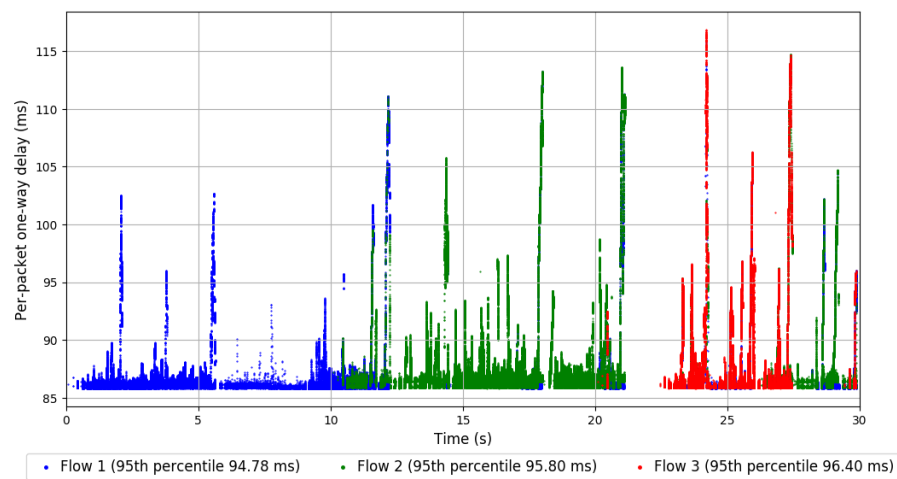
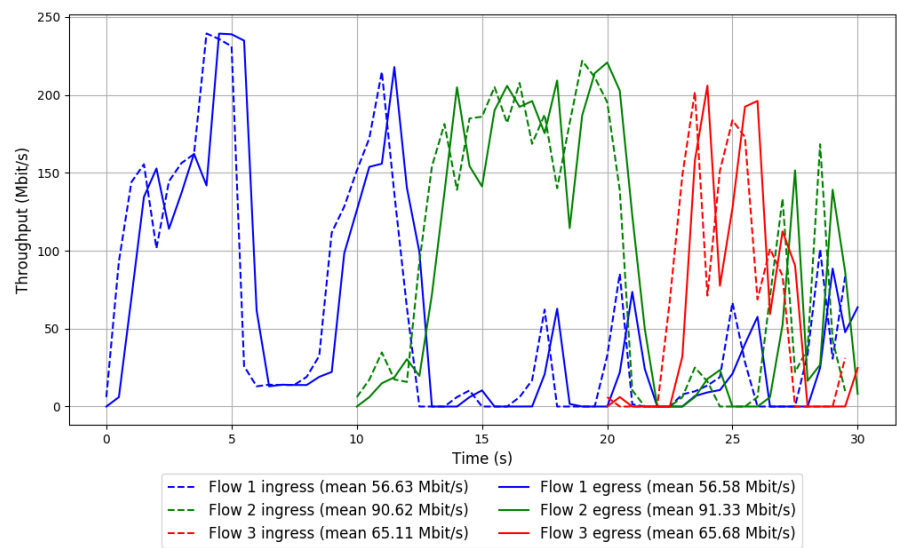


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-05 20:42:43
End at: 2018-06-05 20:43:13
Local clock offset: -0.241 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-06 00:26:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 138.72 Mbit/s
95th percentile per-packet one-way delay: 95.457 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 94.783 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 95.798 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 65.68 Mbit/s
95th percentile per-packet one-way delay: 96.402 ms
Loss rate: 0.50%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-05 21:05:20

End at: 2018-06-05 21:05:50

Local clock offset: 0.038 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-06 00:26:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 92.251 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 89.19 Mbit/s

95th percentile per-packet one-way delay: 91.545 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 80.13 Mbit/s

95th percentile per-packet one-way delay: 94.619 ms

Loss rate: 0.00%

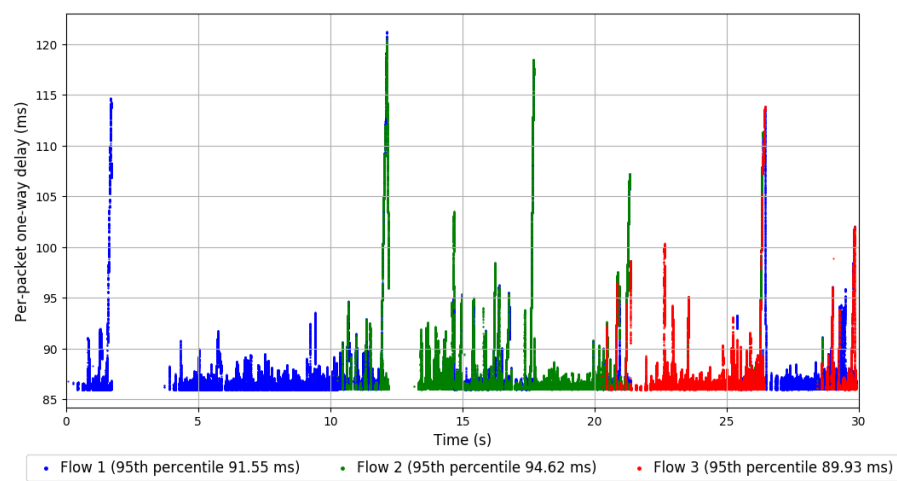
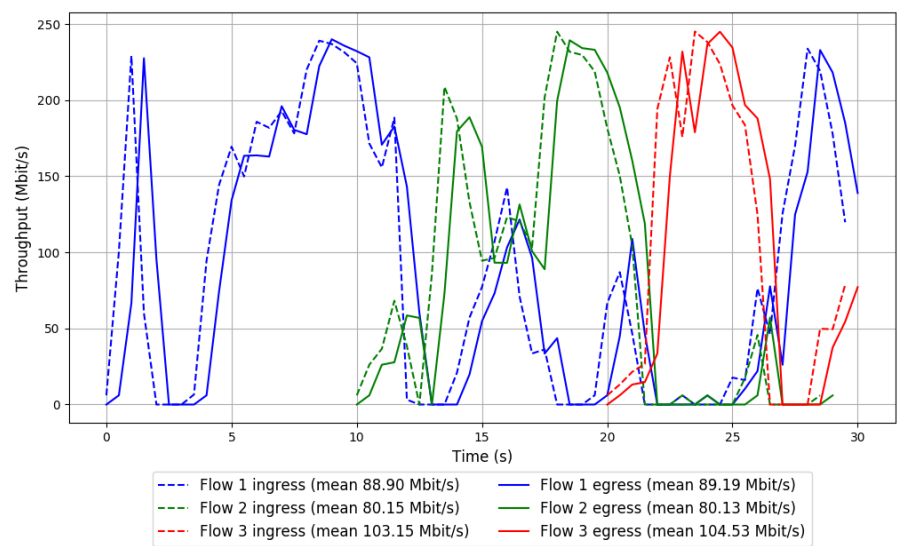
-- Flow 3:

Average throughput: 104.53 Mbit/s

95th percentile per-packet one-way delay: 89.932 ms

Loss rate: 0.43%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-05 21:27:57

End at: 2018-06-05 21:28:27

Local clock offset: 0.05 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-06-06 00:26:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.12 Mbit/s

95th percentile per-packet one-way delay: 91.133 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 88.953 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 92.588 ms

Loss rate: 0.75%

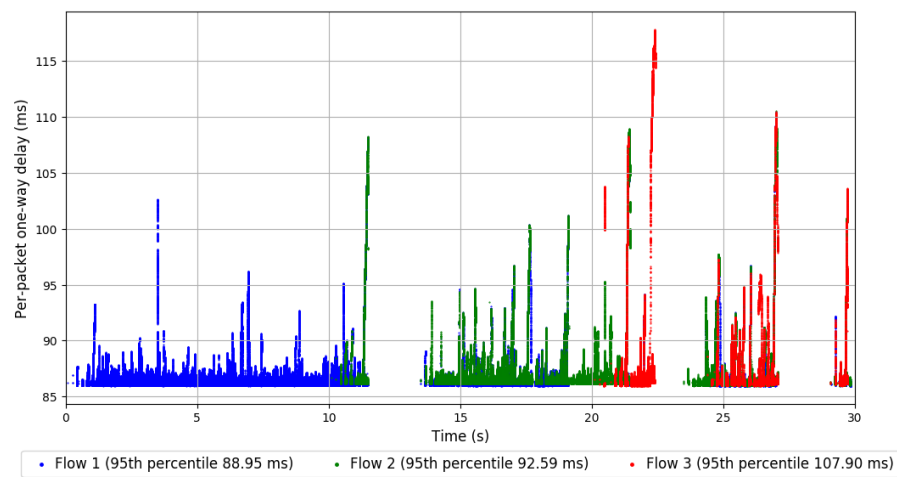
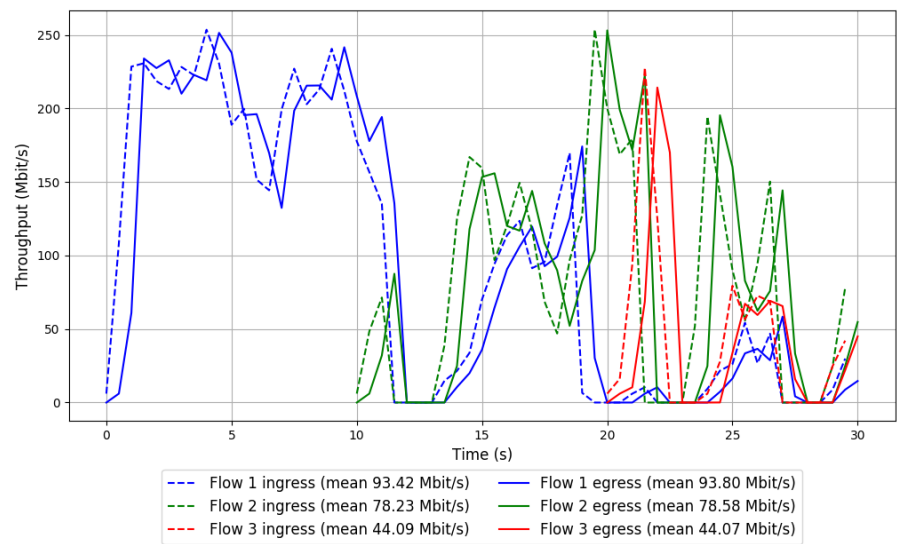
-- Flow 3:

Average throughput: 44.07 Mbit/s

95th percentile per-packet one-way delay: 107.900 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-05 21:50:34

End at: 2018-06-05 21:51:04

Local clock offset: -0.153 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-06 00:26:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.32 Mbit/s

95th percentile per-packet one-way delay: 90.866 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 141.79 Mbit/s

95th percentile per-packet one-way delay: 89.237 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 100.798 ms

Loss rate: 0.46%

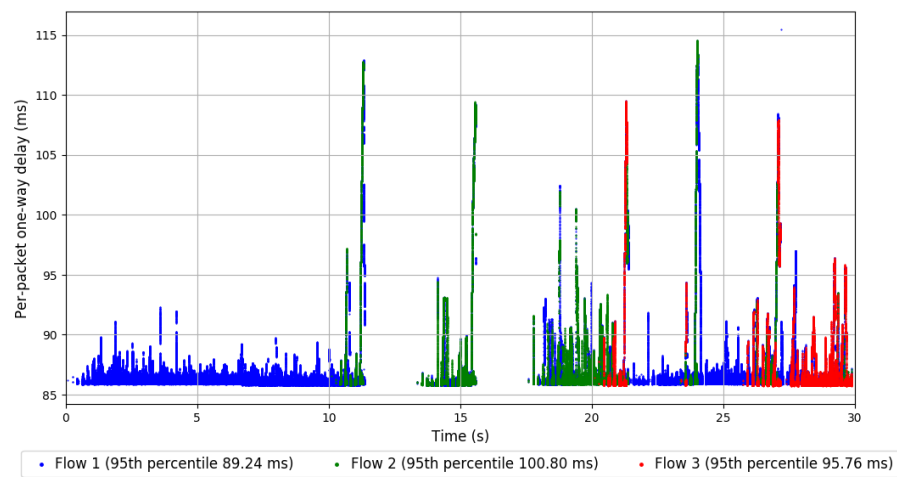
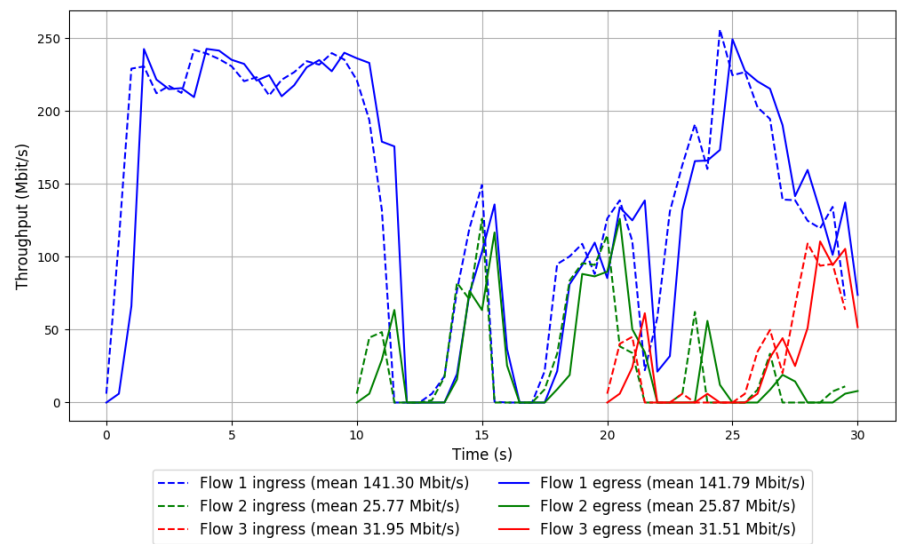
-- Flow 3:

Average throughput: 31.51 Mbit/s

95th percentile per-packet one-way delay: 95.759 ms

Loss rate: 3.10%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-05 22:12:55

End at: 2018-06-05 22:13:25

Local clock offset: -0.245 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-06 00:26:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.44 Mbit/s

95th percentile per-packet one-way delay: 89.757 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 87.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.21 Mbit/s

95th percentile per-packet one-way delay: 92.211 ms

Loss rate: 1.17%

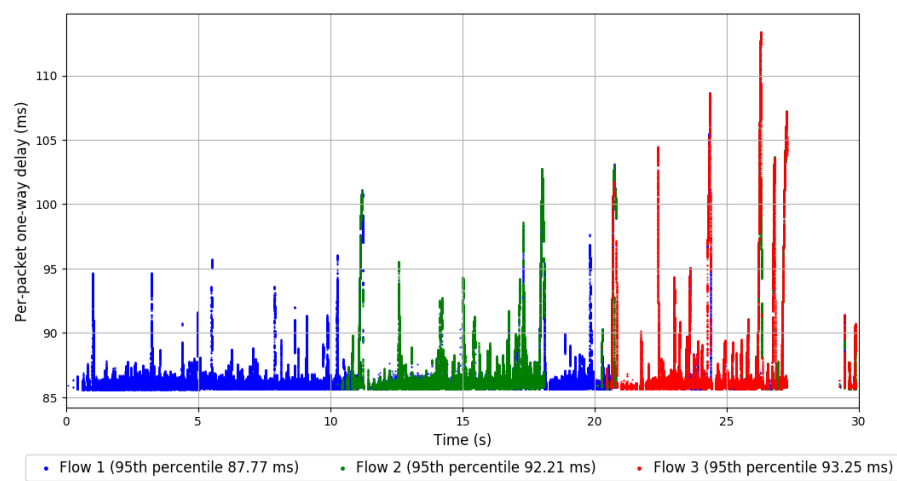
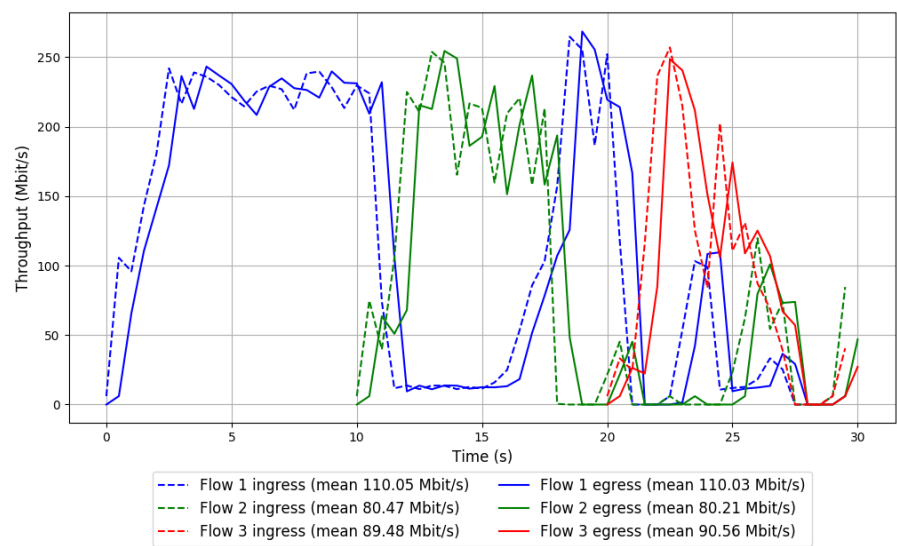
-- Flow 3:

Average throughput: 90.56 Mbit/s

95th percentile per-packet one-way delay: 93.245 ms

Loss rate: 0.75%

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

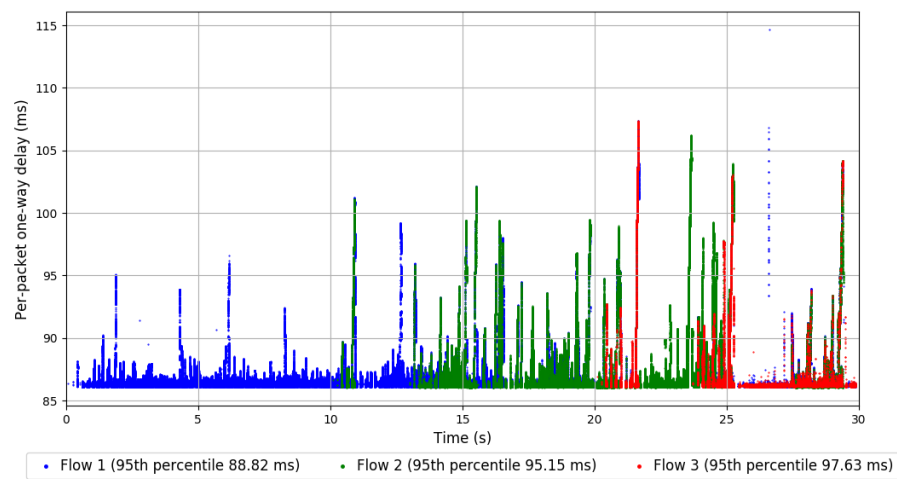
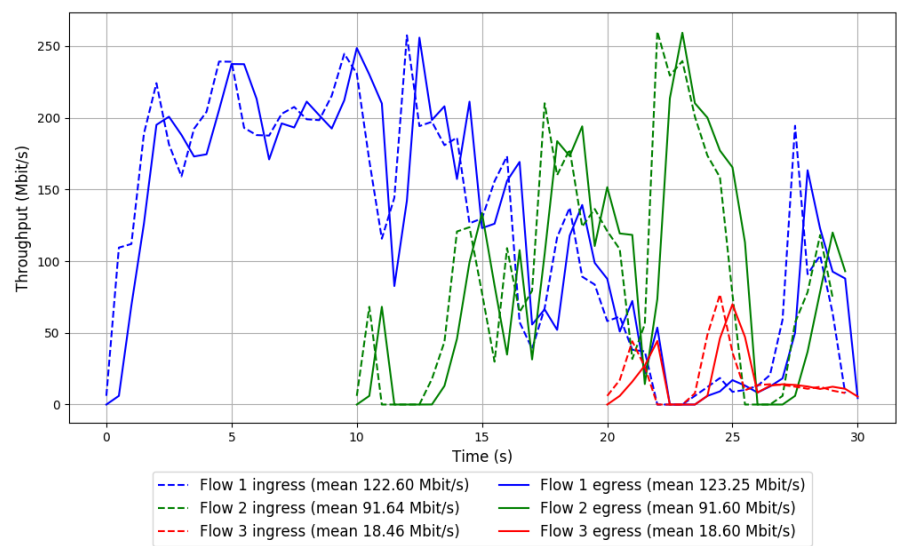


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-05 22:35:24
End at: 2018-06-05 22:35:54
Local clock offset: 0.184 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-06 00:30:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 188.75 Mbit/s
95th percentile per-packet one-way delay: 91.515 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 123.25 Mbit/s
95th percentile per-packet one-way delay: 88.823 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 91.60 Mbit/s
95th percentile per-packet one-way delay: 95.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 97.634 ms
Loss rate: 0.97%

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

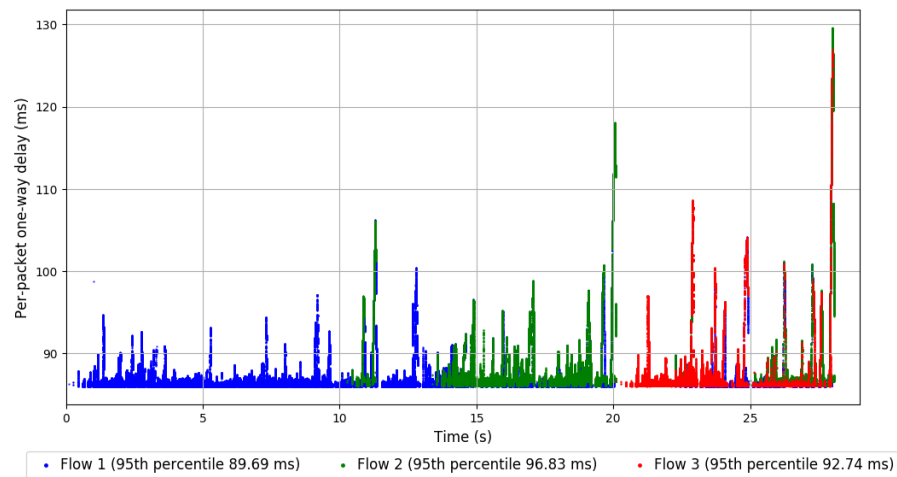
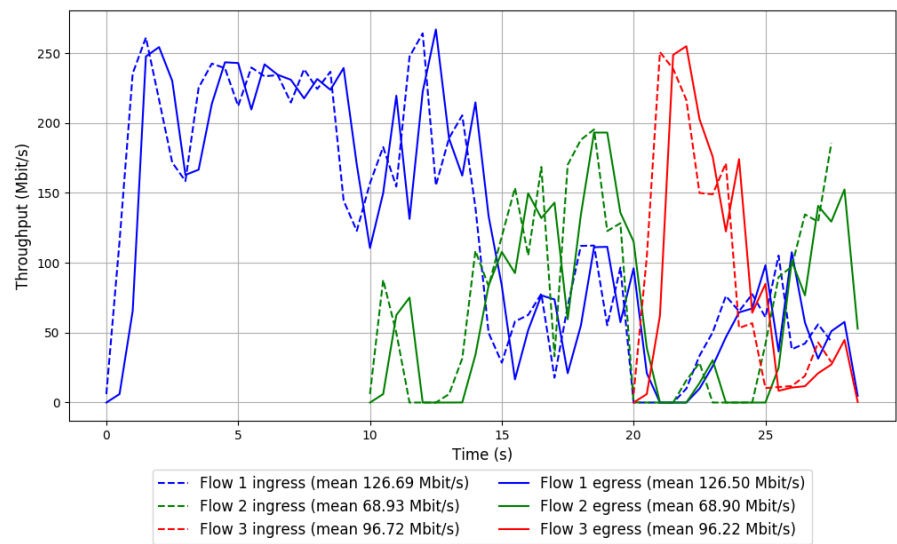


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-05 22:58:05
End at: 2018-06-05 22:58:35
Local clock offset: 0.173 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-06-06 00:30:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.61 Mbit/s
95th percentile per-packet one-way delay: 91.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.50 Mbit/s
95th percentile per-packet one-way delay: 89.694 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 96.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 92.736 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 19:37:28

End at: 2018-06-05 19:37:58

Local clock offset: 0.172 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-06 00:30:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.98 Mbit/s

95th percentile per-packet one-way delay: 107.022 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 102.12 Mbit/s

95th percentile per-packet one-way delay: 103.090 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 128.66 Mbit/s

95th percentile per-packet one-way delay: 109.689 ms

Loss rate: 0.96%

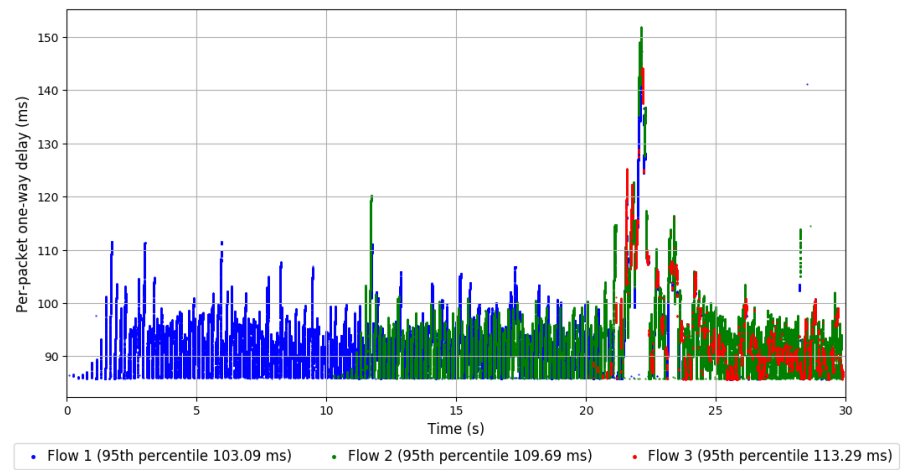
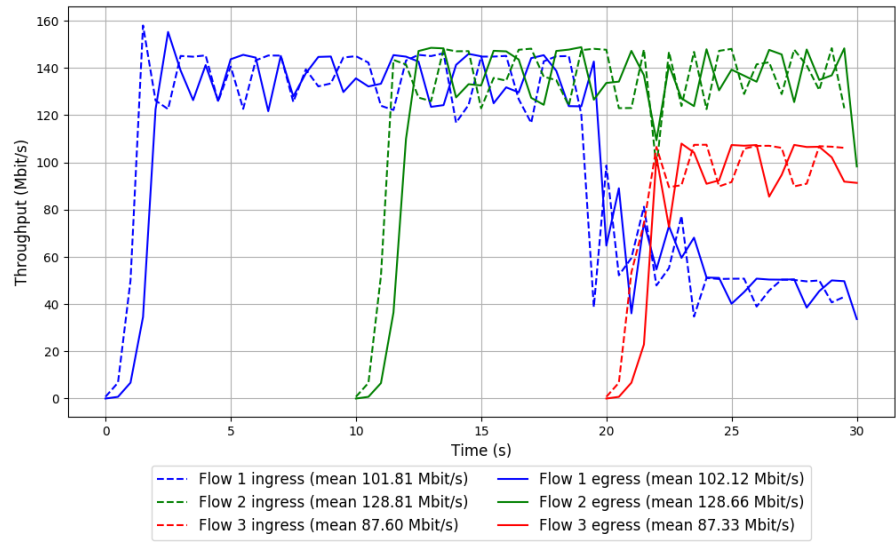
-- Flow 3:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 113.291 ms

Loss rate: 2.04%

Run 1: Report of TCP Vegas — Data Link

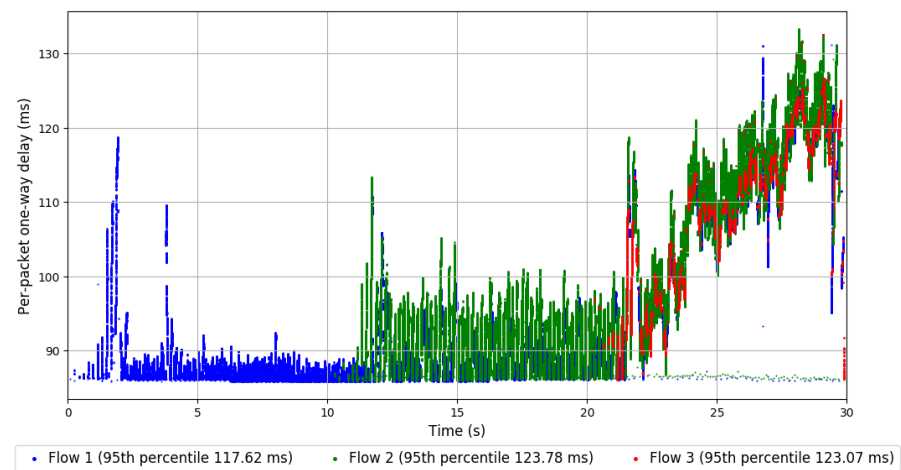
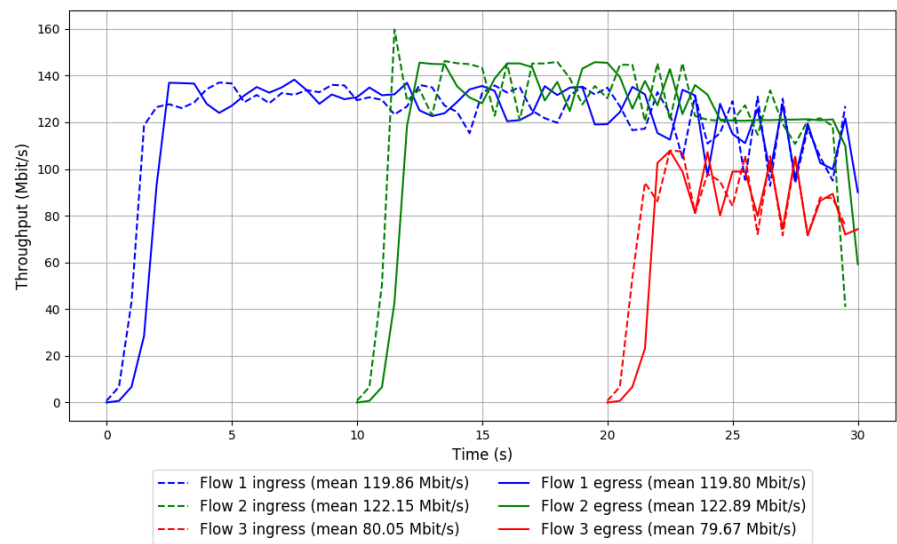


Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 20:00:14
End at: 2018-06-05 20:00:44
Local clock offset: -0.065 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-06 00:30:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 227.14 Mbit/s
95th percentile per-packet one-way delay: 121.249 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 119.80 Mbit/s
95th percentile per-packet one-way delay: 117.622 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 122.89 Mbit/s
95th percentile per-packet one-way delay: 123.783 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 79.67 Mbit/s
95th percentile per-packet one-way delay: 123.073 ms
Loss rate: 2.20%

Run 2: Report of TCP Vegas — Data Link

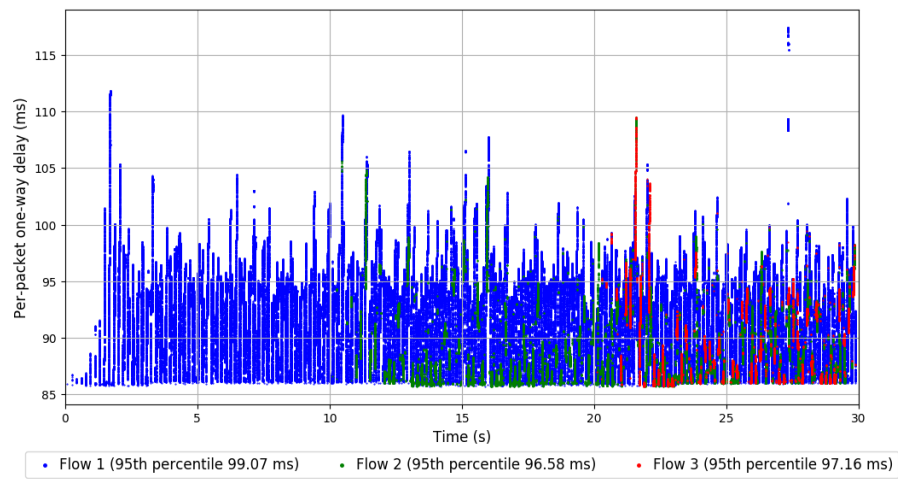
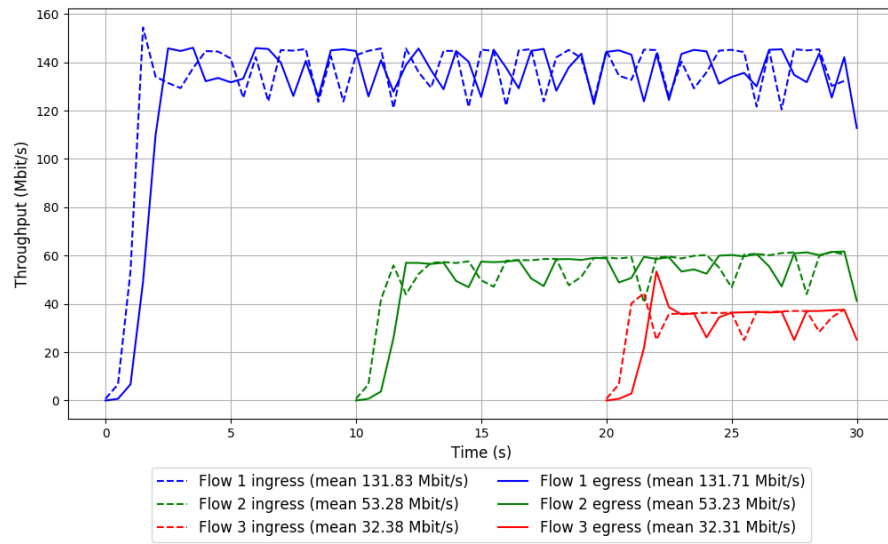


Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 20:22:57
End at: 2018-06-05 20:23:27
Local clock offset: -0.303 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-06 00:30:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.58 Mbit/s
95th percentile per-packet one-way delay: 98.633 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 131.71 Mbit/s
95th percentile per-packet one-way delay: 99.072 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 96.585 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 97.156 ms
Loss rate: 1.95%

Run 3: Report of TCP Vegas — Data Link

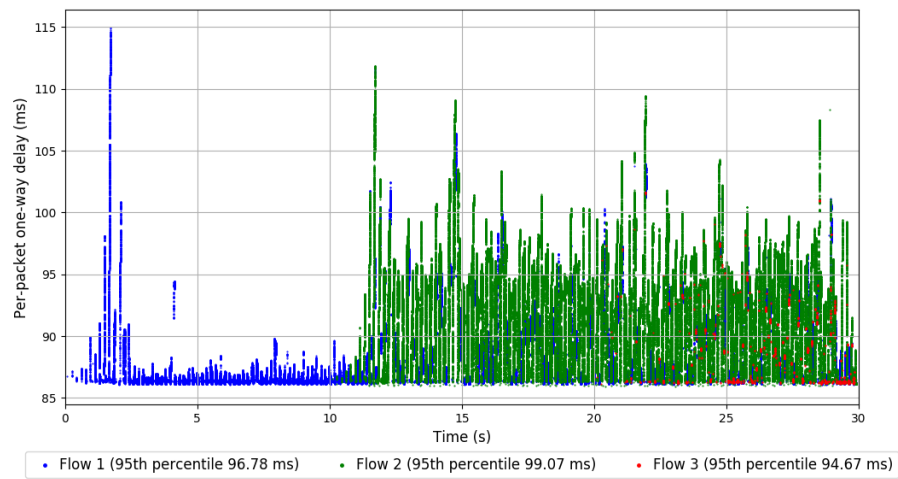
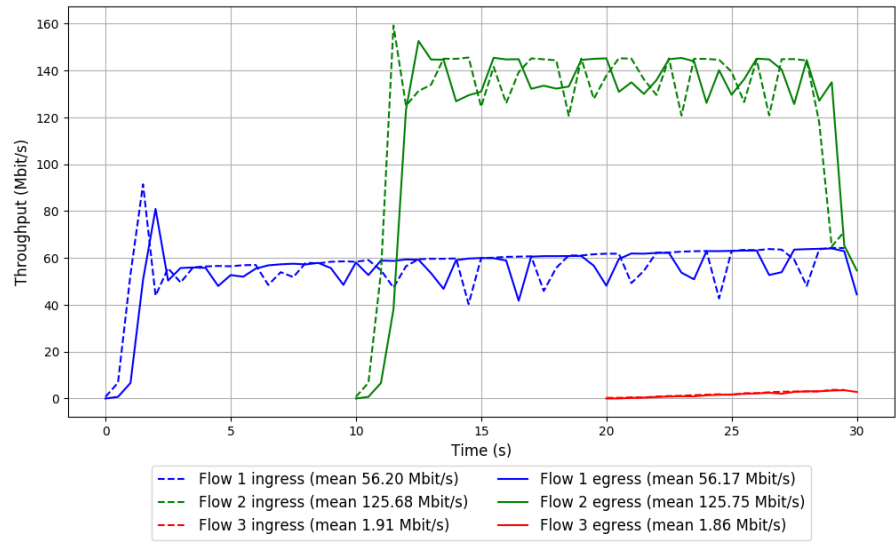


Run 4: Statistics of TCP Vegas

Start at: 2018-06-05 20:45:30
End at: 2018-06-05 20:46:00
Local clock offset: -0.278 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-06 00:30:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.30 Mbit/s
95th percentile per-packet one-way delay: 98.641 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 96.783 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 125.75 Mbit/s
95th percentile per-packet one-way delay: 99.074 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 94.672 ms
Loss rate: 3.99%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-05 21:08:10

End at: 2018-06-05 21:08:40

Local clock offset: -0.144 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-06 00:30:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.33 Mbit/s

95th percentile per-packet one-way delay: 100.049 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 131.86 Mbit/s

95th percentile per-packet one-way delay: 100.086 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 95.773 ms

Loss rate: 1.71%

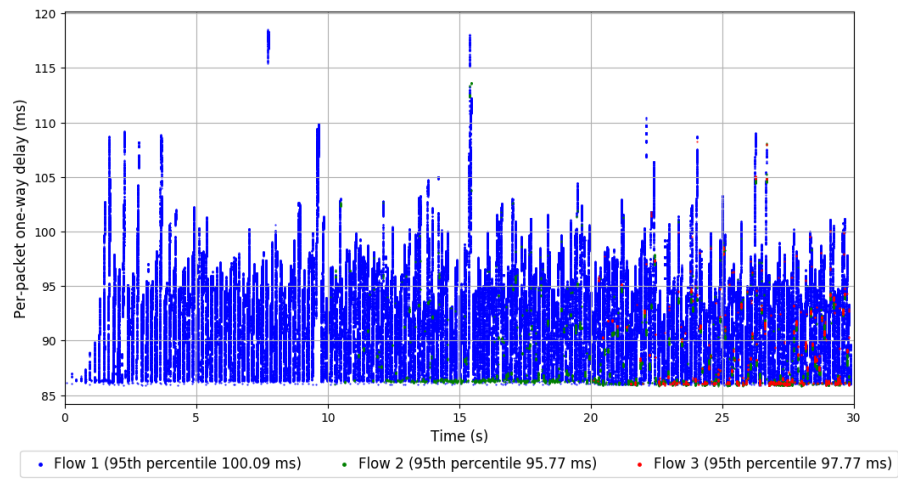
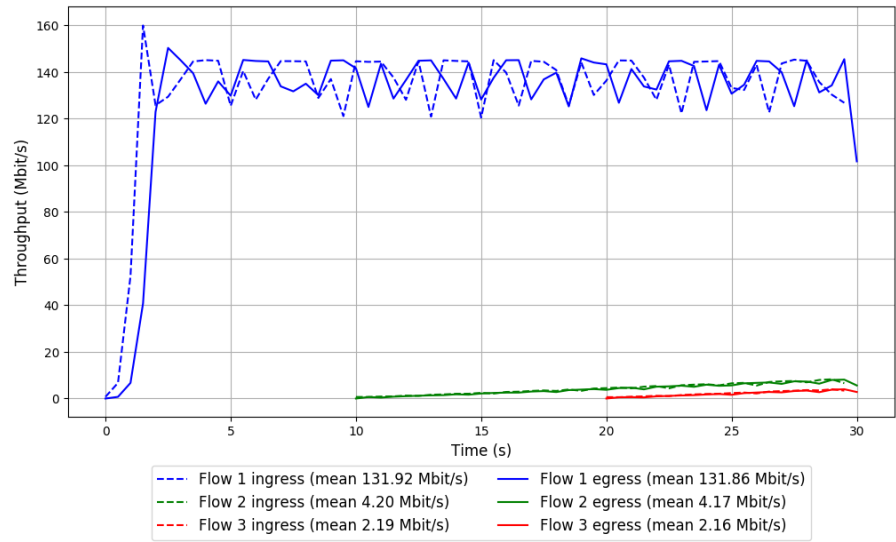
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 97.770 ms

Loss rate: 3.42%

Run 5: Report of TCP Vegas — Data Link

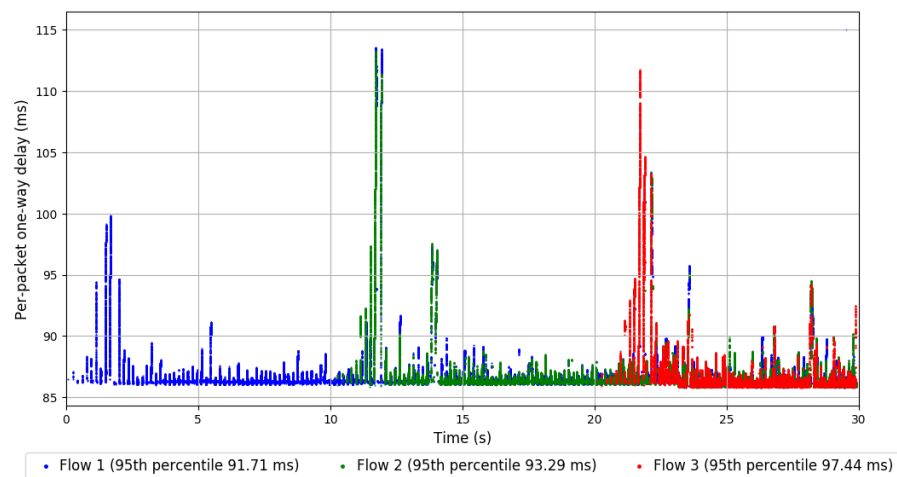
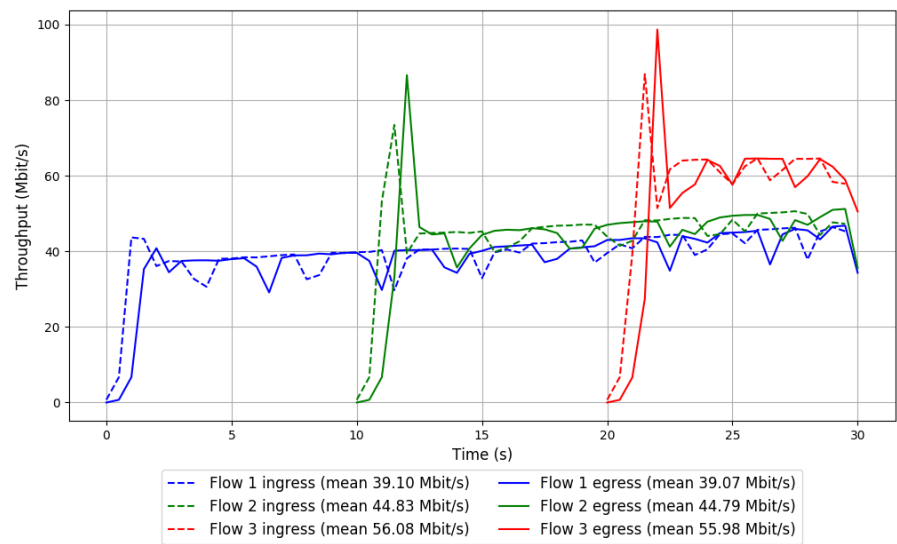


Run 6: Statistics of TCP Vegas

Start at: 2018-06-05 21:30:47
End at: 2018-06-05 21:31:17
Local clock offset: -0.188 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-06 00:30:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 93.566 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 91.712 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 44.79 Mbit/s
95th percentile per-packet one-way delay: 93.294 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 97.441 ms
Loss rate: 1.92%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-05 21:53:24

End at: 2018-06-05 21:53:54

Local clock offset: -0.376 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-06 00:30:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.31 Mbit/s

95th percentile per-packet one-way delay: 92.974 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 93.572 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 35.34 Mbit/s

95th percentile per-packet one-way delay: 91.948 ms

Loss rate: 0.92%

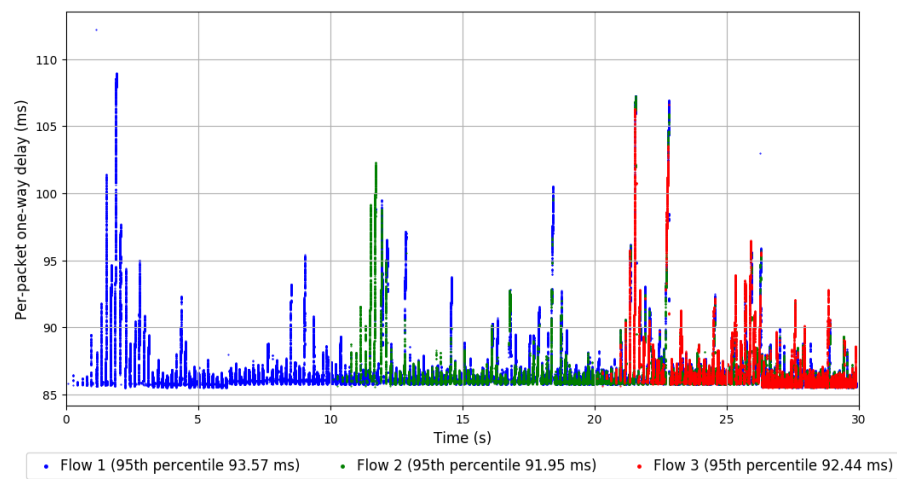
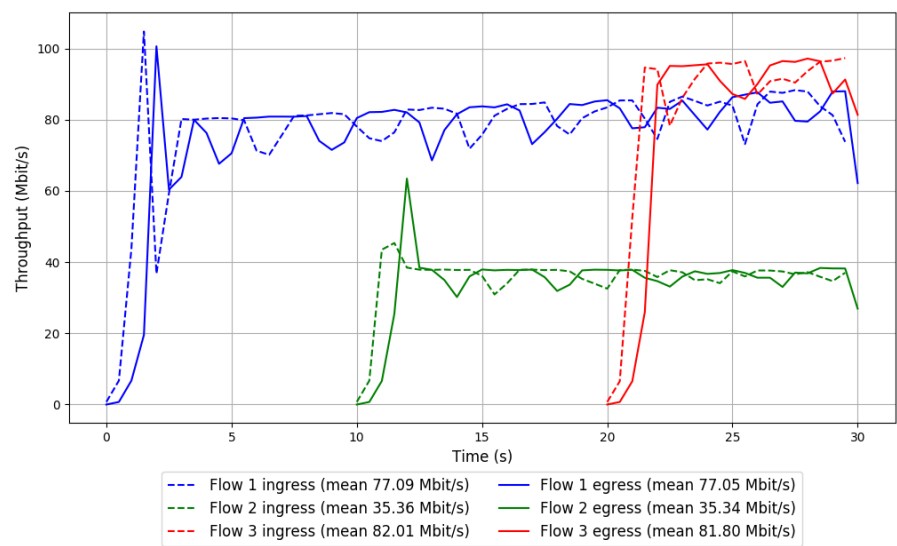
-- Flow 3:

Average throughput: 81.80 Mbit/s

95th percentile per-packet one-way delay: 92.435 ms

Loss rate: 1.99%

Run 7: Report of TCP Vegas — Data Link

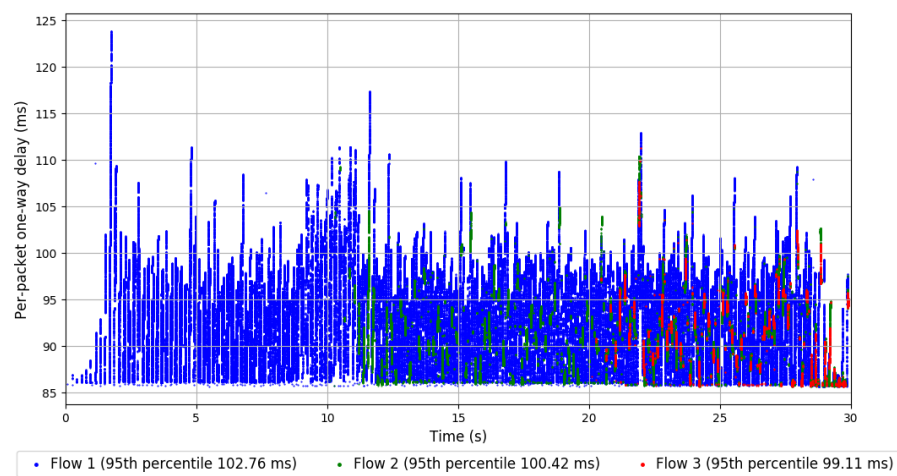
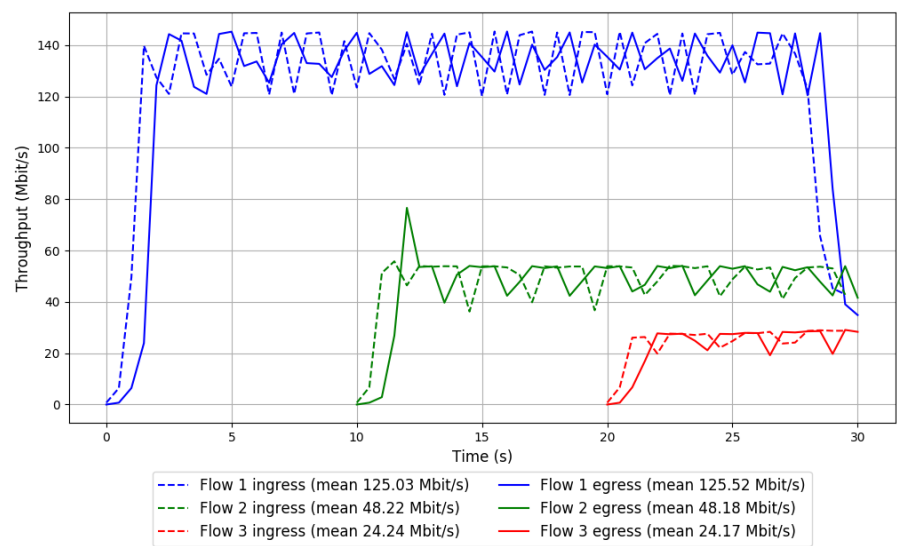


Run 8: Statistics of TCP Vegas

Start at: 2018-06-05 22:15:49
End at: 2018-06-05 22:16:19
Local clock offset: -0.227 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-06 00:31:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 165.35 Mbit/s
95th percentile per-packet one-way delay: 102.159 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 125.52 Mbit/s
95th percentile per-packet one-way delay: 102.764 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 48.18 Mbit/s
95th percentile per-packet one-way delay: 100.423 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 99.109 ms
Loss rate: 2.02%

Run 8: Report of TCP Vegas — Data Link

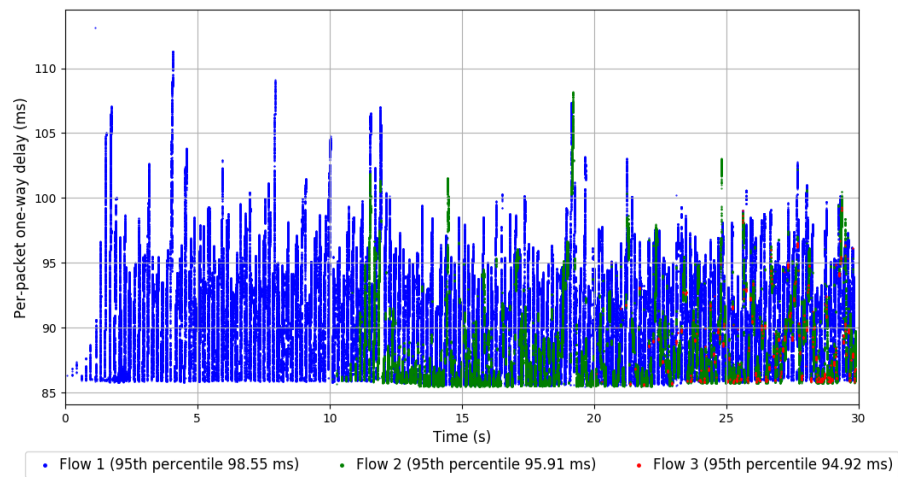
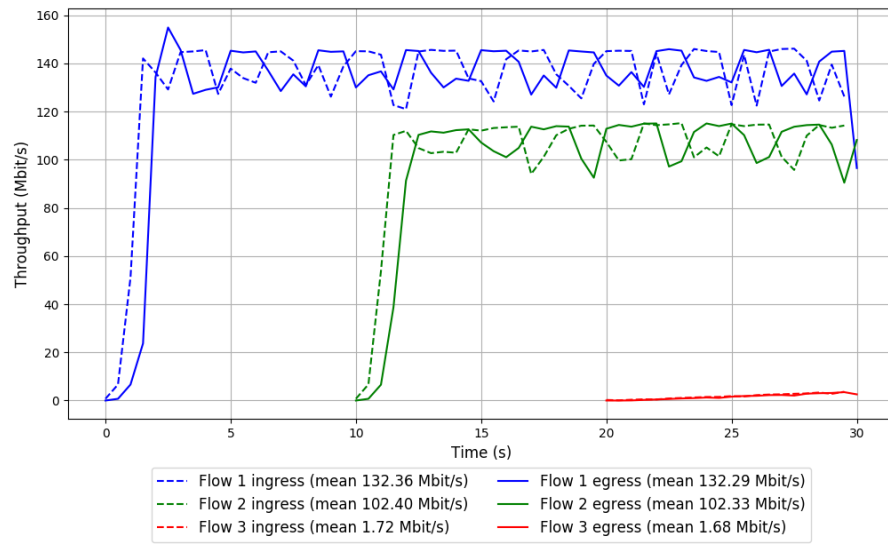


Run 9: Statistics of TCP Vegas

Start at: 2018-06-05 22:38:17
End at: 2018-06-05 22:38:47
Local clock offset: -0.439 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-06 00:32:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 200.52 Mbit/s
95th percentile per-packet one-way delay: 97.956 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 132.29 Mbit/s
95th percentile per-packet one-way delay: 98.550 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 102.33 Mbit/s
95th percentile per-packet one-way delay: 95.906 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 94.920 ms
Loss rate: 4.34%

Run 9: Report of TCP Vegas — Data Link

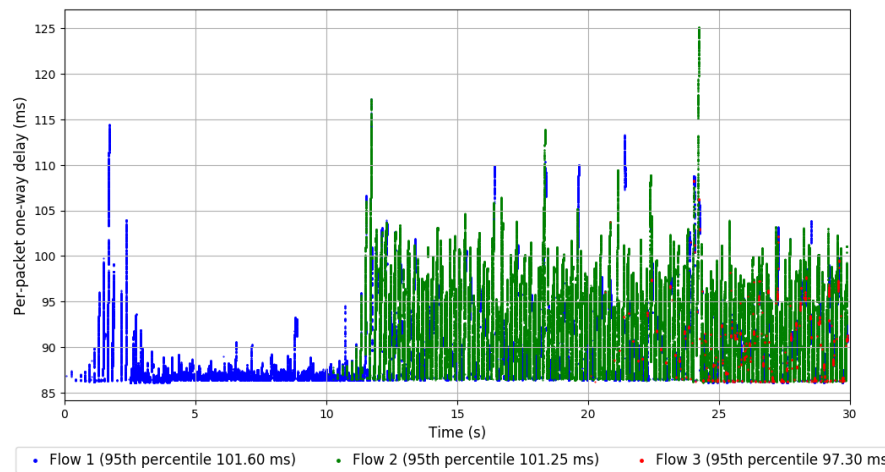
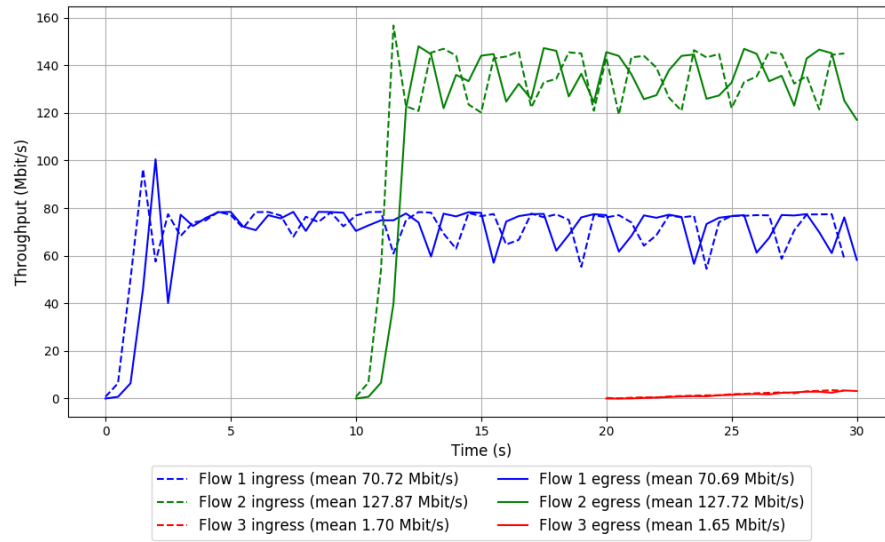


Run 10: Statistics of TCP Vegas

Start at: 2018-06-05 23:00:57
End at: 2018-06-05 23:01:27
Local clock offset: 0.224 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-06-06 00:32:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.02 Mbit/s
95th percentile per-packet one-way delay: 101.351 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 101.601 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 127.72 Mbit/s
95th percentile per-packet one-way delay: 101.247 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 97.297 ms
Loss rate: 4.40%

Run 10: Report of TCP Vegas — Data Link

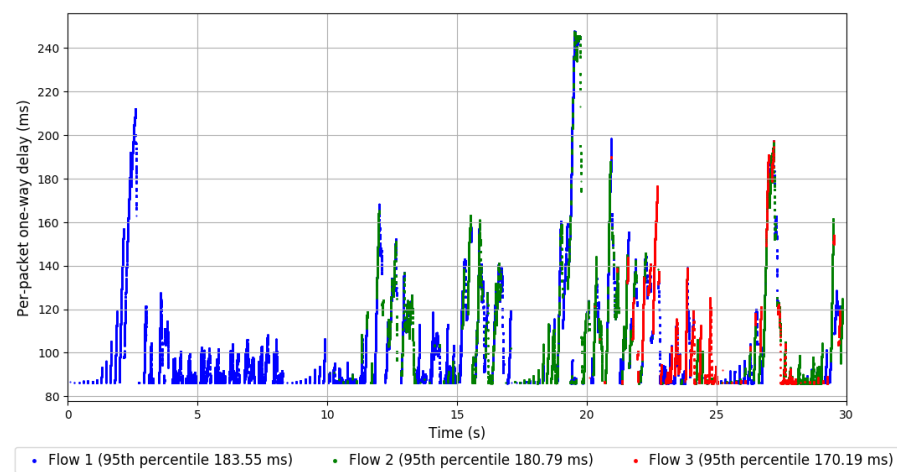
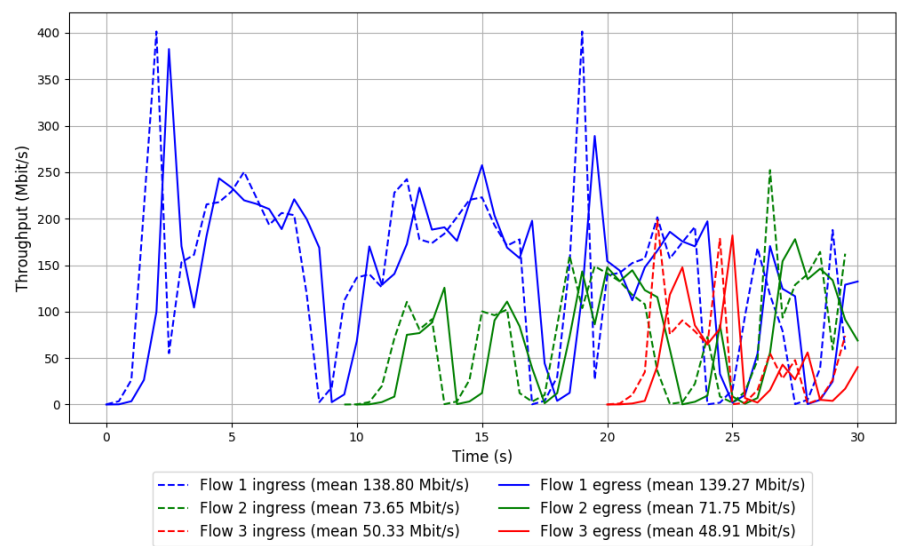


Run 1: Statistics of Verus

Start at: 2018-06-05 19:33:14
End at: 2018-06-05 19:33:44
Local clock offset: 0.378 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-06 00:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 202.58 Mbit/s
95th percentile per-packet one-way delay: 181.364 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 139.27 Mbit/s
95th percentile per-packet one-way delay: 183.551 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 180.786 ms
Loss rate: 3.44%
-- Flow 3:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 170.188 ms
Loss rate: 4.63%

Run 1: Report of Verus — Data Link

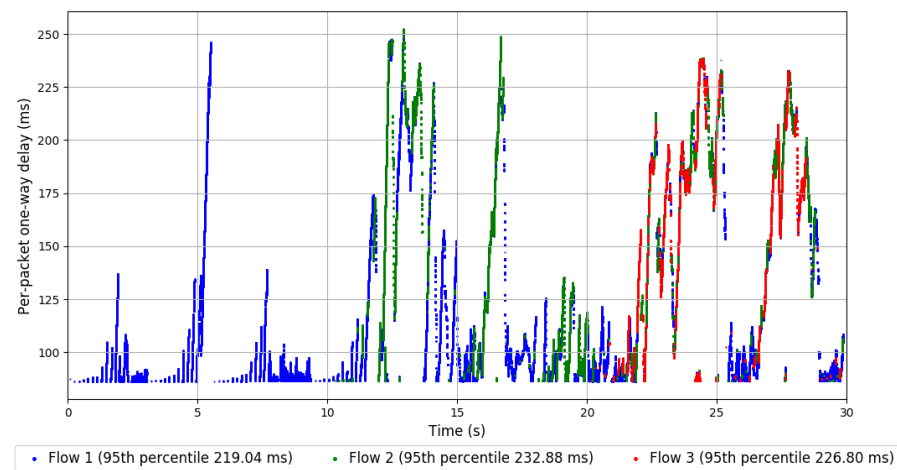
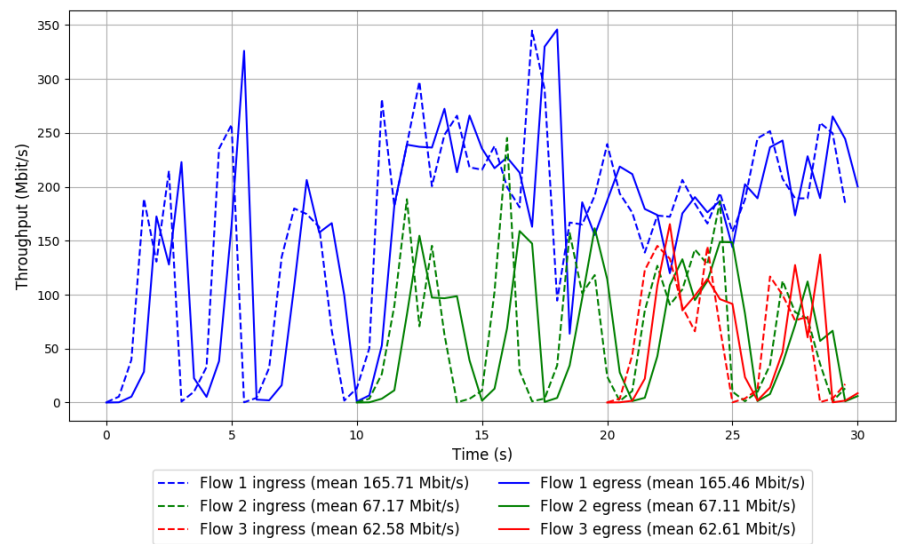


Run 2: Statistics of Verus

Start at: 2018-06-05 19:55:53
End at: 2018-06-05 19:56:23
Local clock offset: 0.101 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-06 00:33:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.21 Mbit/s
95th percentile per-packet one-way delay: 225.120 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 165.46 Mbit/s
95th percentile per-packet one-way delay: 219.037 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 67.11 Mbit/s
95th percentile per-packet one-way delay: 232.882 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 62.61 Mbit/s
95th percentile per-packet one-way delay: 226.796 ms
Loss rate: 1.75%

Run 2: Report of Verus — Data Link

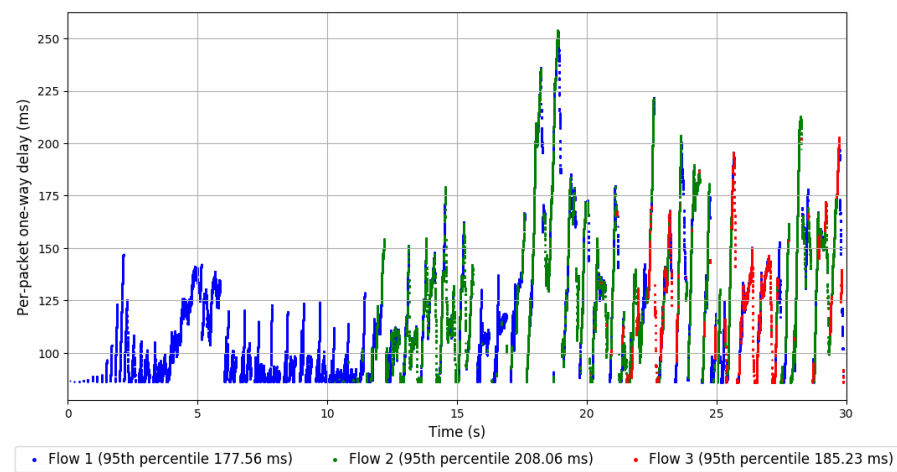
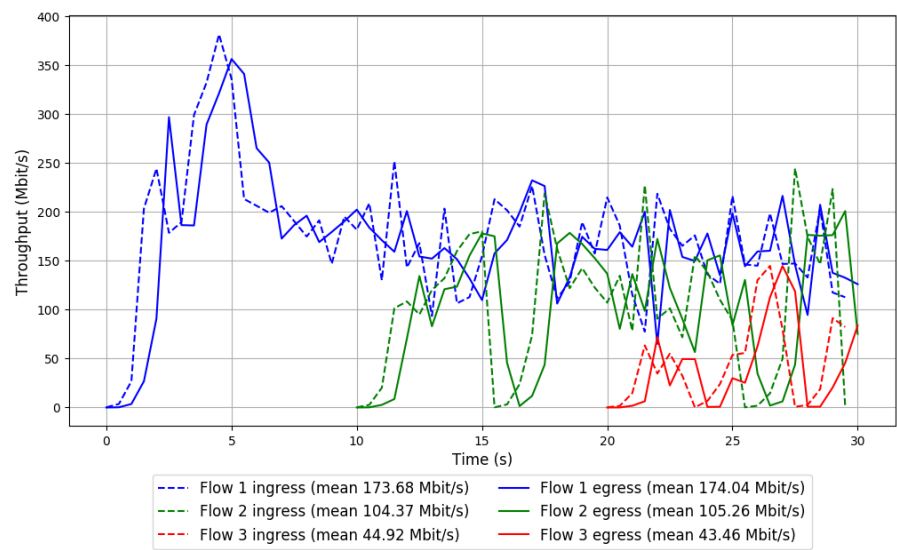


Run 3: Statistics of Verus

Start at: 2018-06-05 20:18:37
End at: 2018-06-05 20:19:07
Local clock offset: -0.072 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-06 00:35:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.48 Mbit/s
95th percentile per-packet one-way delay: 185.609 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 174.04 Mbit/s
95th percentile per-packet one-way delay: 177.562 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 105.26 Mbit/s
95th percentile per-packet one-way delay: 208.065 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 185.234 ms
Loss rate: 4.98%

Run 3: Report of Verus — Data Link

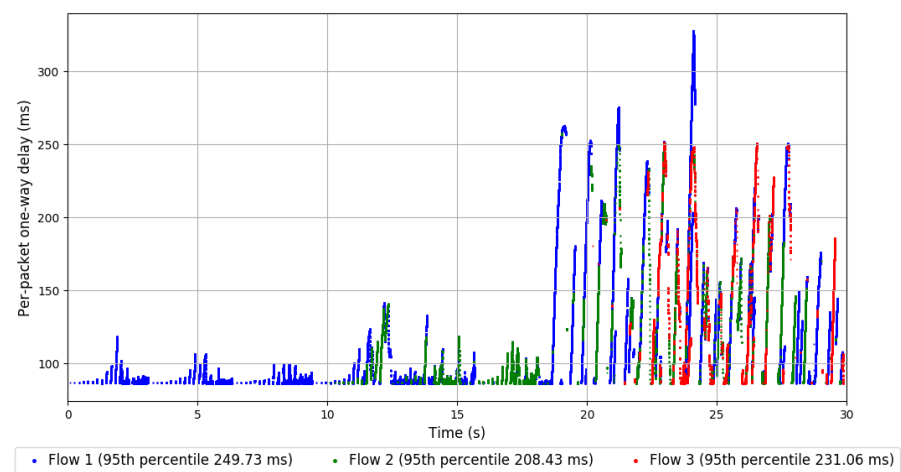
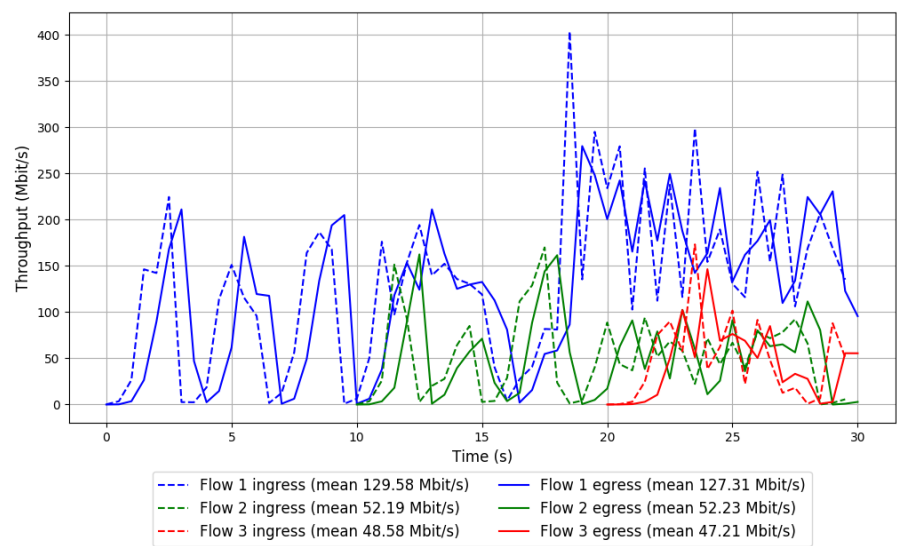


Run 4: Statistics of Verus

Start at: 2018-06-05 20:41:19
End at: 2018-06-05 20:41:49
Local clock offset: -0.242 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-06 00:35:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 176.90 Mbit/s
95th percentile per-packet one-way delay: 244.762 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 127.31 Mbit/s
95th percentile per-packet one-way delay: 249.732 ms
Loss rate: 2.48%
-- Flow 2:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 208.427 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 47.21 Mbit/s
95th percentile per-packet one-way delay: 231.061 ms
Loss rate: 5.42%

Run 4: Report of Verus — Data Link

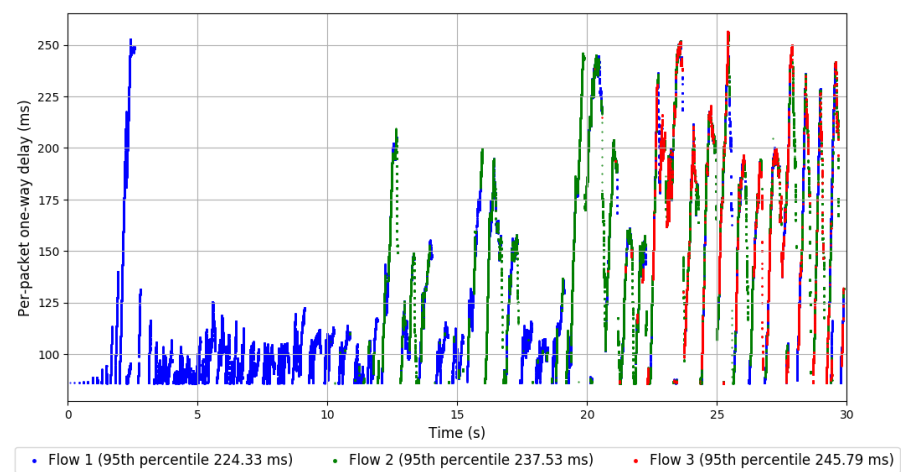
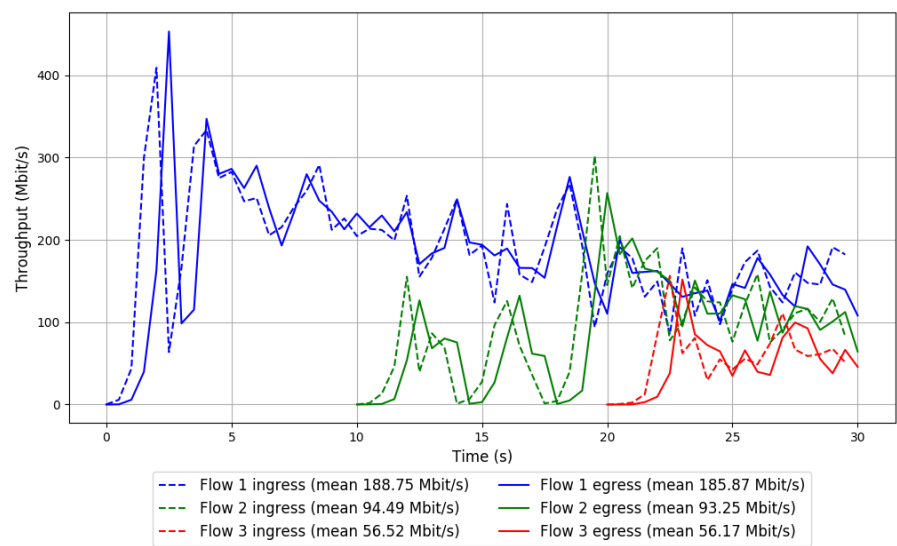


Run 5: Statistics of Verus

Start at: 2018-06-05 21:03:50
End at: 2018-06-05 21:04:20
Local clock offset: -0.217 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-06 00:35:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 265.82 Mbit/s
95th percentile per-packet one-way delay: 230.663 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 185.87 Mbit/s
95th percentile per-packet one-way delay: 224.333 ms
Loss rate: 1.89%
-- Flow 2:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 237.531 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 245.790 ms
Loss rate: 3.87%

Run 5: Report of Verus — Data Link

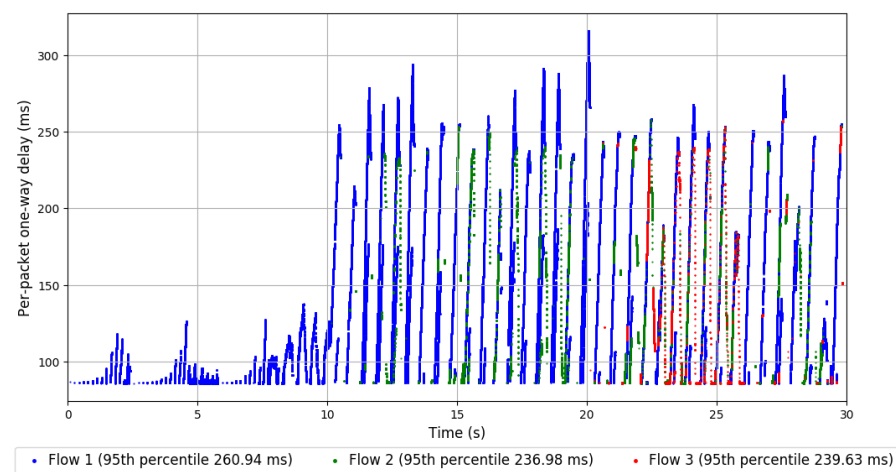
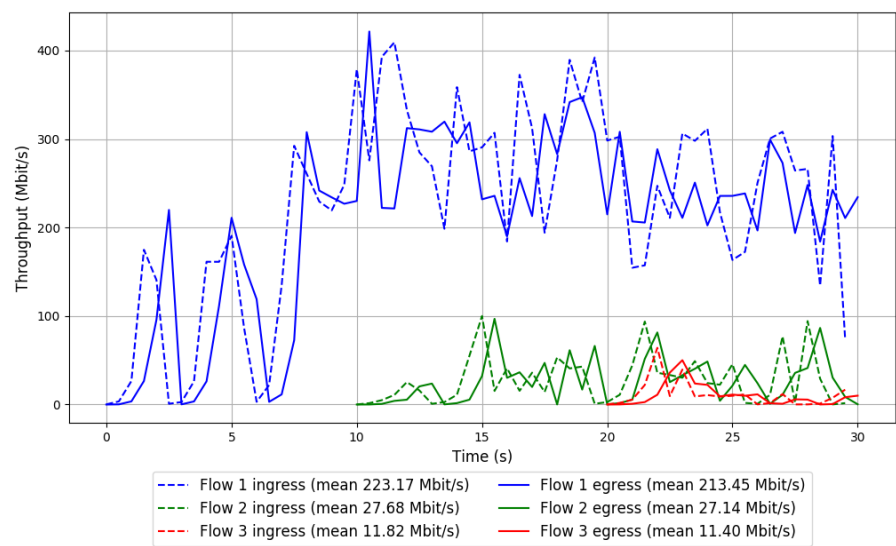


Run 6: Statistics of Verus

Start at: 2018-06-05 21:26:30
End at: 2018-06-05 21:27:00
Local clock offset: -0.101 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-06 00:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.87 Mbit/s
95th percentile per-packet one-way delay: 257.844 ms
Loss rate: 4.95%
-- Flow 1:
Average throughput: 213.45 Mbit/s
95th percentile per-packet one-way delay: 260.943 ms
Loss rate: 5.11%
-- Flow 2:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 236.980 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 239.628 ms
Loss rate: 4.59%

Run 6: Report of Verus — Data Link

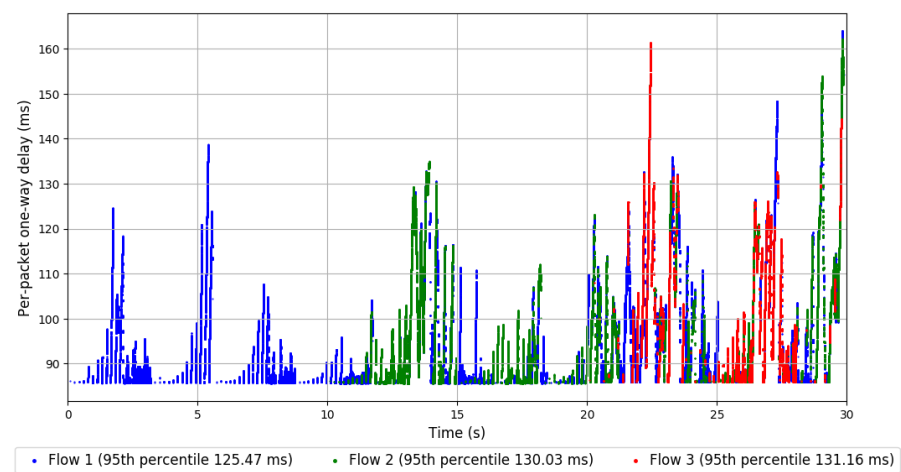
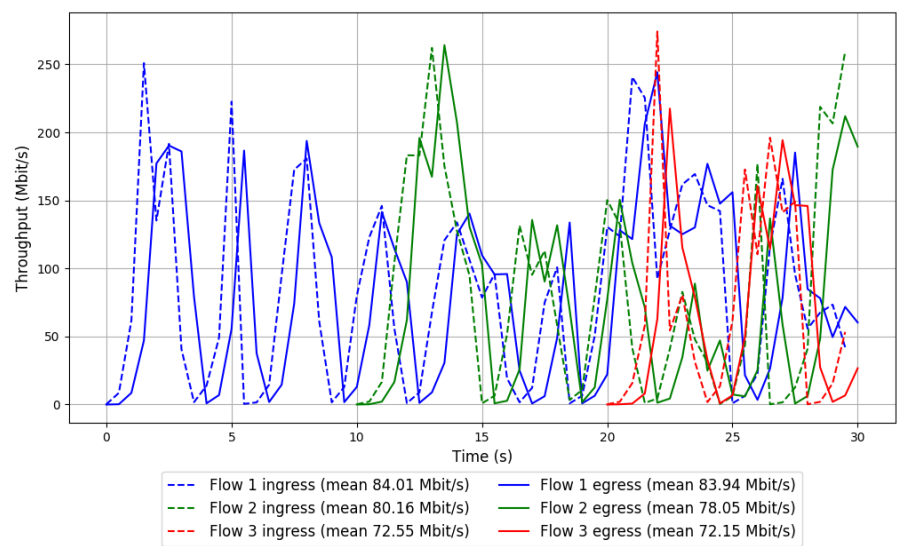


Run 7: Statistics of Verus

Start at: 2018-06-05 21:49:11
End at: 2018-06-05 21:49:41
Local clock offset: -0.309 ms
Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-06 00:35:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.25 Mbit/s
95th percentile per-packet one-way delay: 128.006 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 125.470 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 78.05 Mbit/s
95th percentile per-packet one-way delay: 130.033 ms
Loss rate: 3.47%
-- Flow 3:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 131.156 ms
Loss rate: 2.48%

Run 7: Report of Verus — Data Link

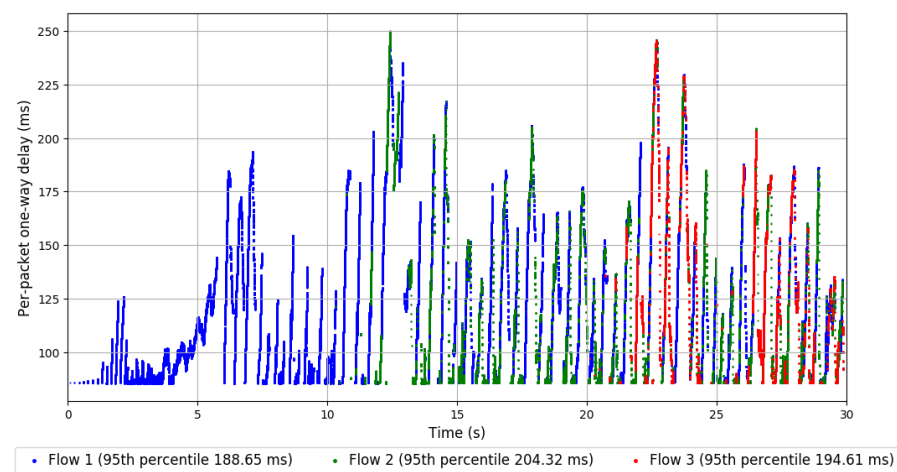
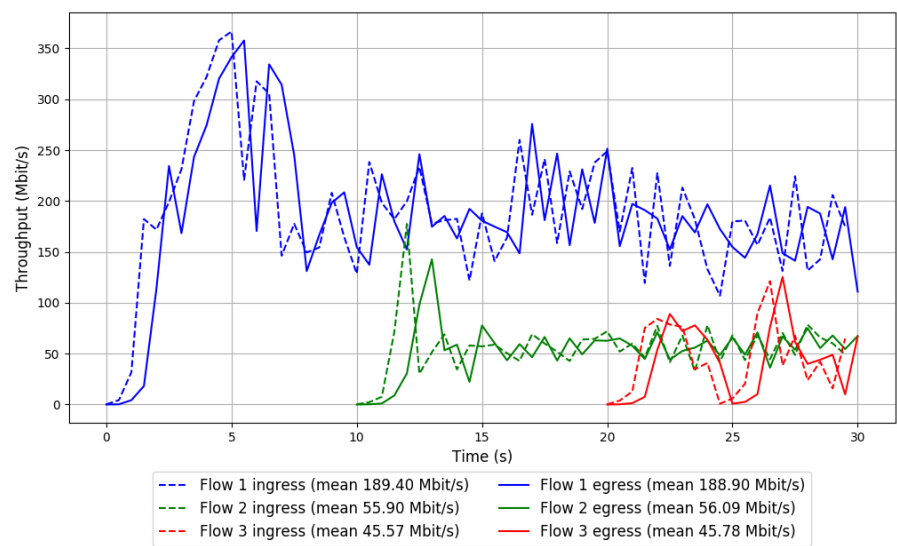


Run 8: Statistics of Verus

Start at: 2018-06-05 22:11:26
End at: 2018-06-05 22:11:56
Local clock offset: -0.379 ms
Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-06 00:36:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.12 Mbit/s
95th percentile per-packet one-way delay: 193.147 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 188.90 Mbit/s
95th percentile per-packet one-way delay: 188.646 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 204.322 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 45.78 Mbit/s
95th percentile per-packet one-way delay: 194.610 ms
Loss rate: 0.56%

Run 8: Report of Verus — Data Link

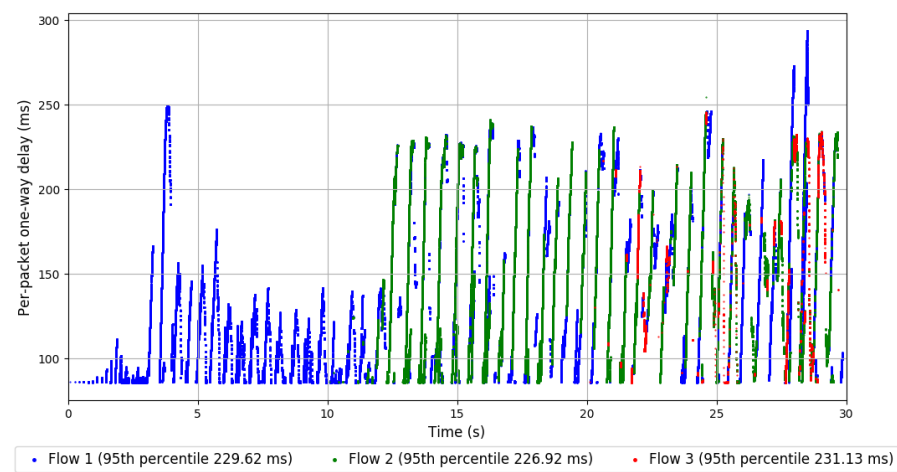
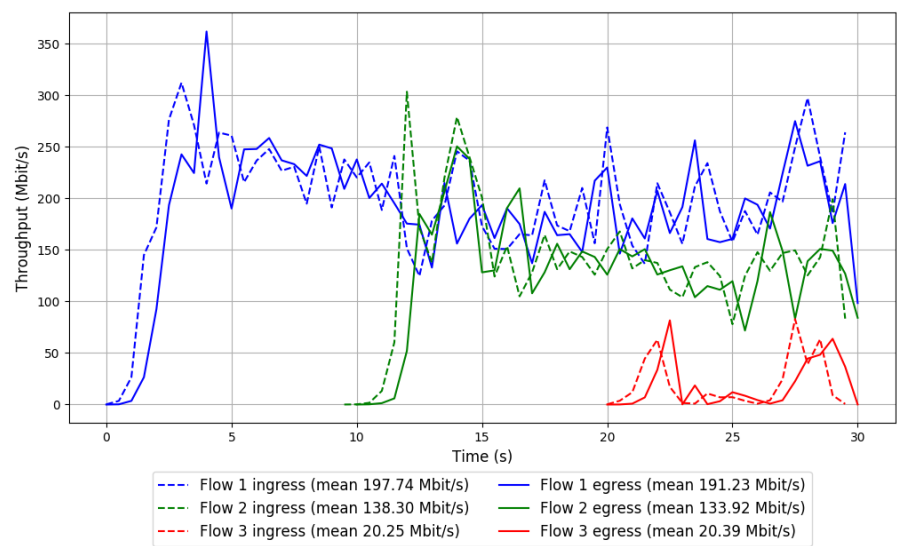


Run 9: Statistics of Verus

Start at: 2018-06-05 22:33:52
End at: 2018-06-05 22:34:22
Local clock offset: -0.202 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-06 00:37:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.97 Mbit/s
95th percentile per-packet one-way delay: 228.623 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 191.23 Mbit/s
95th percentile per-packet one-way delay: 229.623 ms
Loss rate: 3.61%
-- Flow 2:
Average throughput: 133.92 Mbit/s
95th percentile per-packet one-way delay: 226.919 ms
Loss rate: 4.86%
-- Flow 3:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 231.126 ms
Loss rate: 1.10%

Run 9: Report of Verus — Data Link

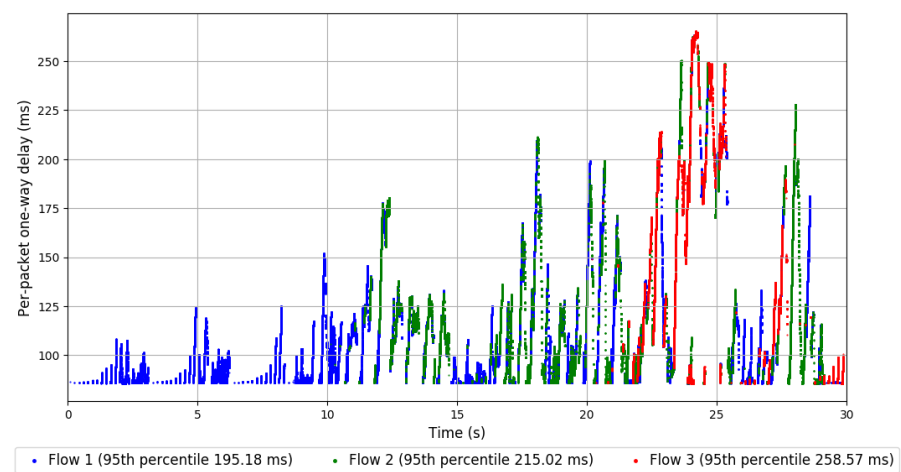
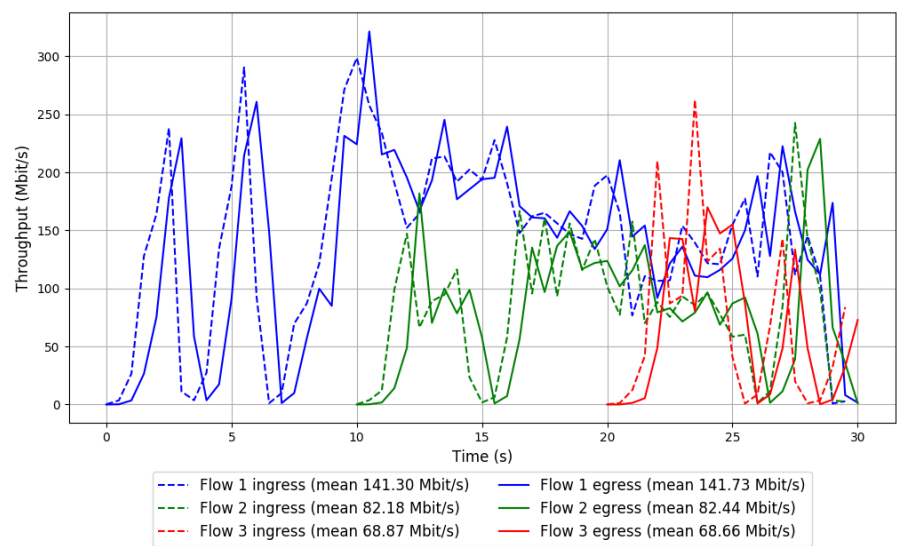


Run 10: Statistics of Verus

Start at: 2018-06-05 22:56:38
End at: 2018-06-05 22:57:08
Local clock offset: -0.221 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-06-06 00:37:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 218.12 Mbit/s
95th percentile per-packet one-way delay: 209.479 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 141.73 Mbit/s
95th percentile per-packet one-way delay: 195.176 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 82.44 Mbit/s
95th percentile per-packet one-way delay: 215.018 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 68.66 Mbit/s
95th percentile per-packet one-way delay: 258.566 ms
Loss rate: 2.67%

Run 10: Report of Verus — Data Link

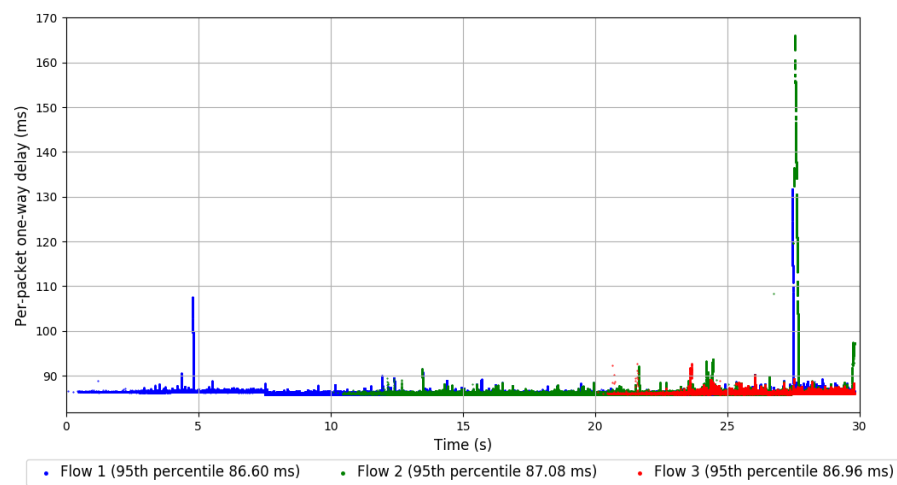
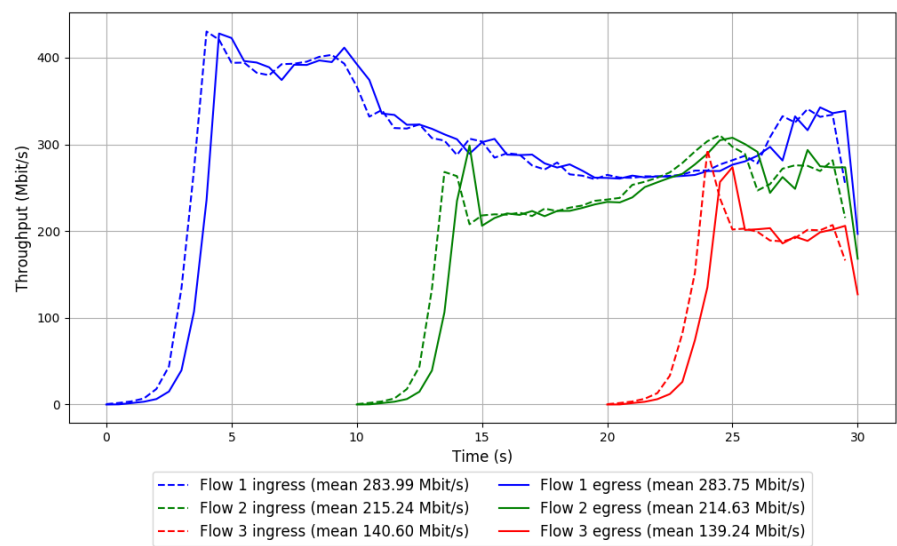


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 19:19:13
End at: 2018-06-05 19:19:43
Local clock offset: 0.217 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-06 00:42:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 471.45 Mbit/s
95th percentile per-packet one-way delay: 86.722 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 283.75 Mbit/s
95th percentile per-packet one-way delay: 86.602 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 214.63 Mbit/s
95th percentile per-packet one-way delay: 87.076 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 139.24 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 2.71%

Run 1: Report of PCC-Vivace — Data Link

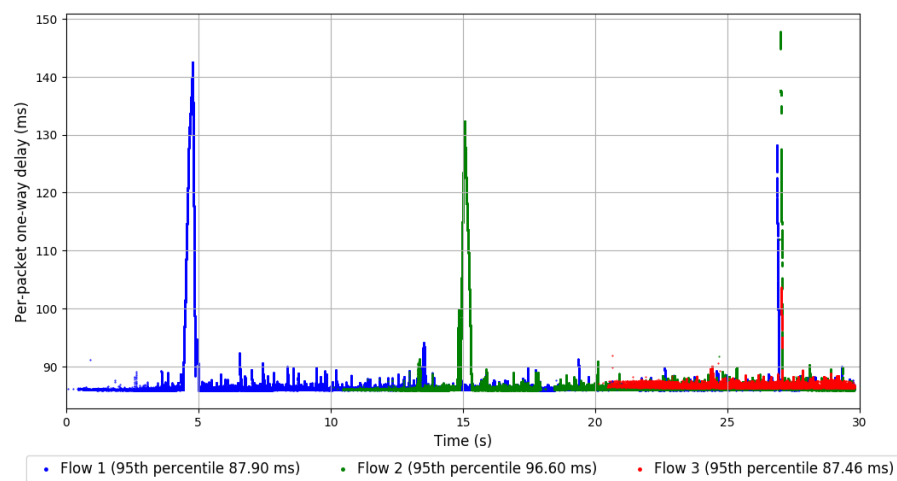
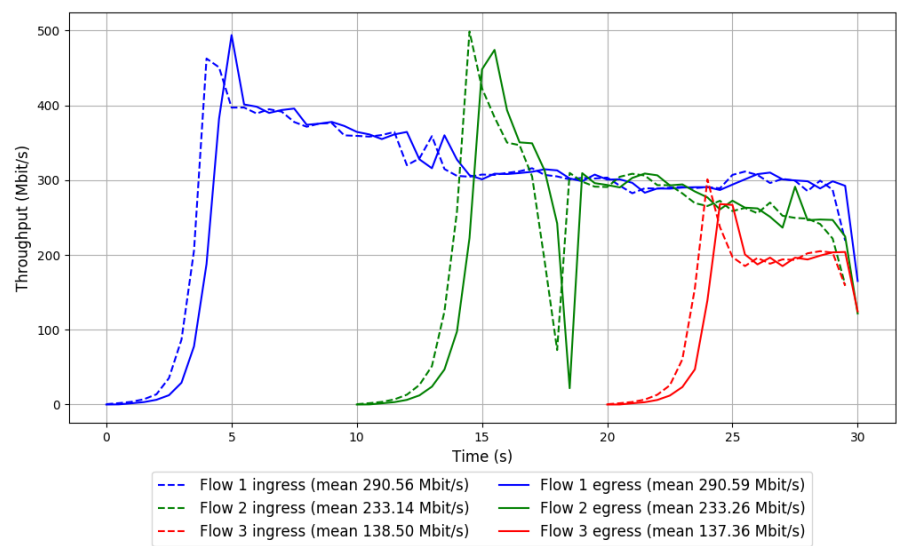


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 19:41:52
End at: 2018-06-05 19:42:23
Local clock offset: 0.384 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-06 00:43:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 489.96 Mbit/s
95th percentile per-packet one-way delay: 88.407 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 290.59 Mbit/s
95th percentile per-packet one-way delay: 87.900 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 233.26 Mbit/s
95th percentile per-packet one-way delay: 96.597 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 137.36 Mbit/s
95th percentile per-packet one-way delay: 87.461 ms
Loss rate: 2.57%

Run 2: Report of PCC-Vivace — Data Link

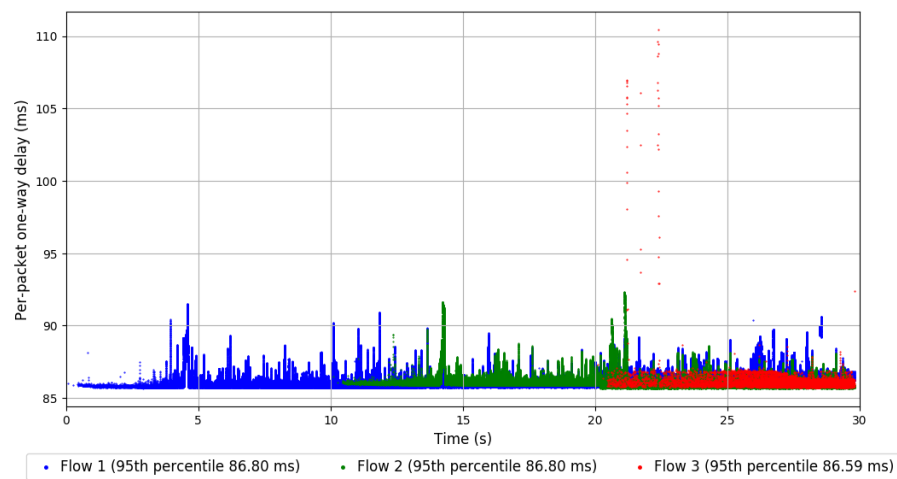
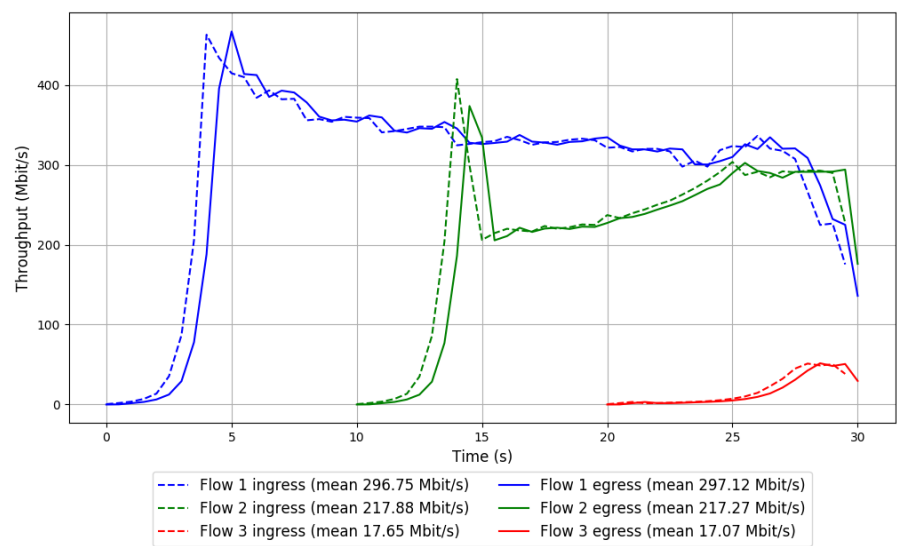


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-05 20:04:40
End at: 2018-06-05 20:05:10
Local clock offset: -0.284 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-06-06 00:43:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 446.71 Mbit/s
95th percentile per-packet one-way delay: 86.792 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 297.12 Mbit/s
95th percentile per-packet one-way delay: 86.798 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 217.27 Mbit/s
95th percentile per-packet one-way delay: 86.798 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 17.07 Mbit/s
95th percentile per-packet one-way delay: 86.591 ms
Loss rate: 4.93%

Run 3: Report of PCC-Vivace — Data Link

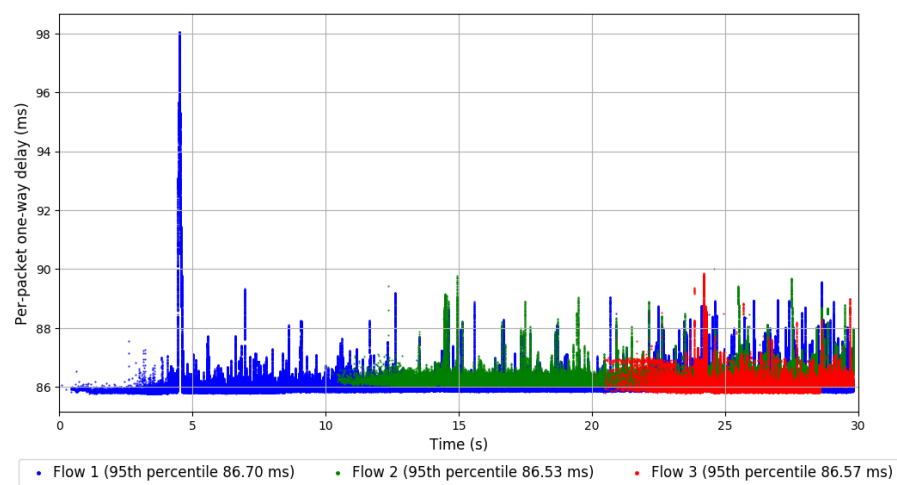
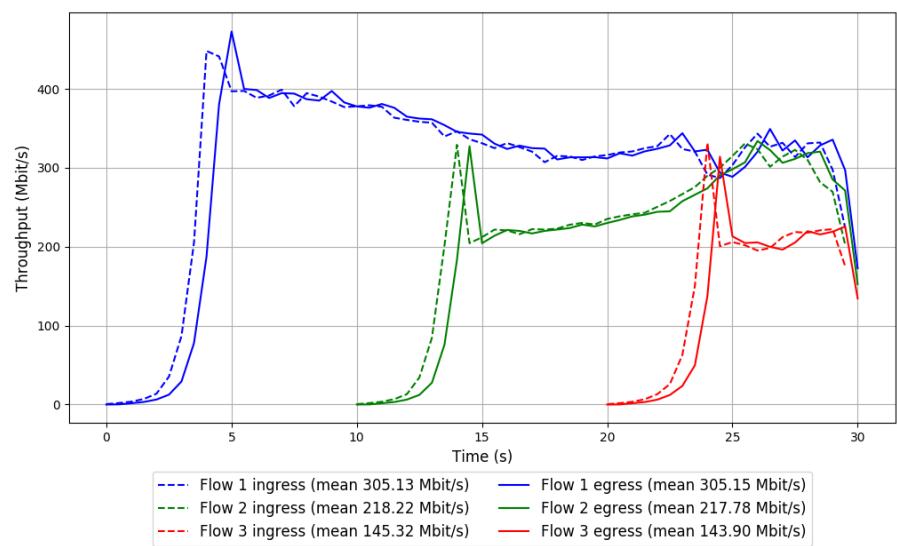


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-05 20:27:22
End at: 2018-06-05 20:27:52
Local clock offset: -0.279 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-06 00:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 496.43 Mbit/s
95th percentile per-packet one-way delay: 86.609 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 305.15 Mbit/s
95th percentile per-packet one-way delay: 86.704 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 217.78 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 143.90 Mbit/s
95th percentile per-packet one-way delay: 86.571 ms
Loss rate: 2.72%

Run 4: Report of PCC-Vivace — Data Link

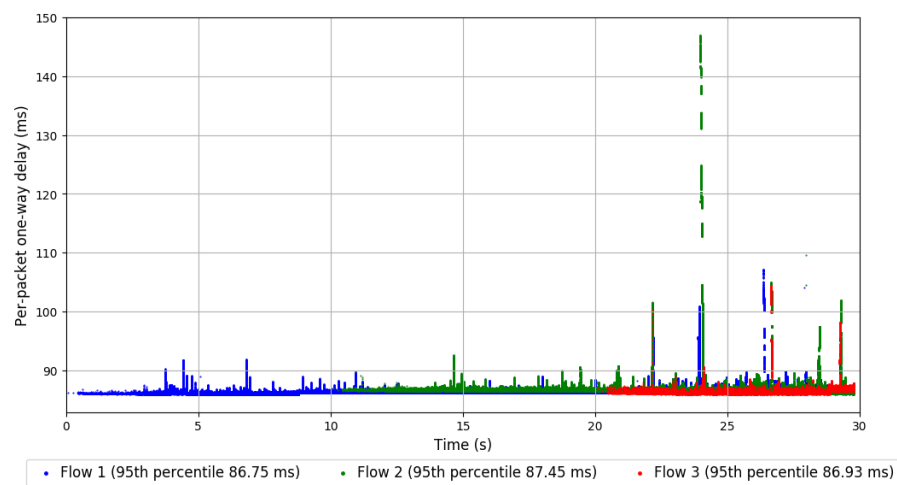
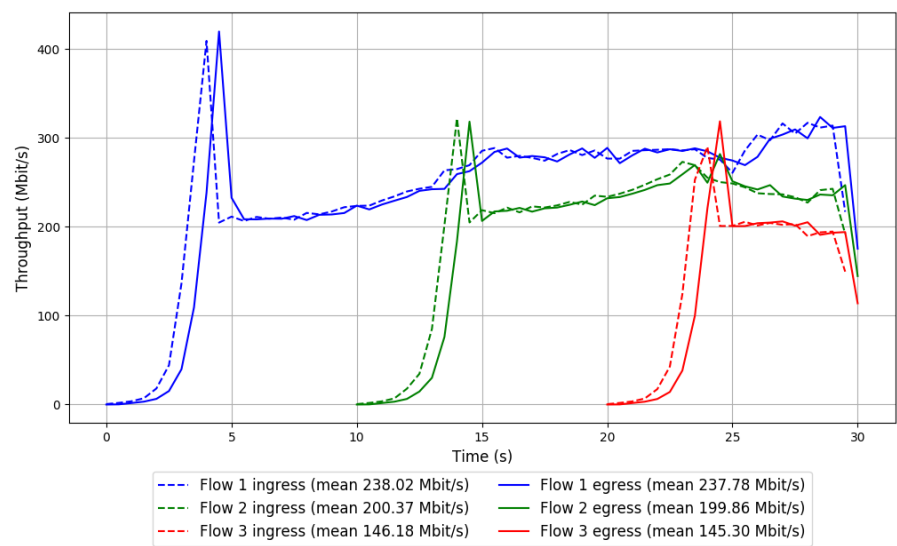


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-05 20:49:51
End at: 2018-06-05 20:50:21
Local clock offset: -0.134 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-06 00:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 417.69 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 237.78 Mbit/s
95th percentile per-packet one-way delay: 86.754 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 199.86 Mbit/s
95th percentile per-packet one-way delay: 87.450 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 145.30 Mbit/s
95th percentile per-packet one-way delay: 86.928 ms
Loss rate: 2.36%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-05 21:12:32

End at: 2018-06-05 21:13:02

Local clock offset: -0.197 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-06 00:44:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 440.93 Mbit/s

95th percentile per-packet one-way delay: 87.059 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 243.54 Mbit/s

95th percentile per-packet one-way delay: 87.030 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 224.33 Mbit/s

95th percentile per-packet one-way delay: 87.051 ms

Loss rate: 1.44%

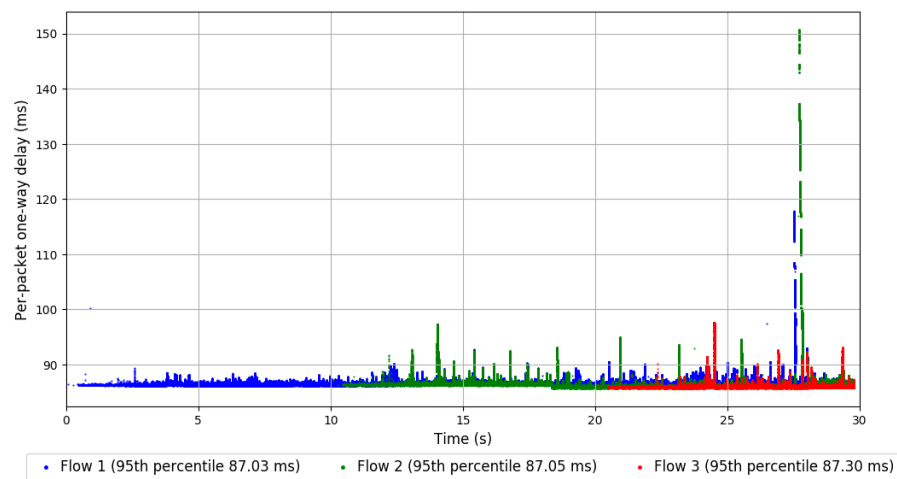
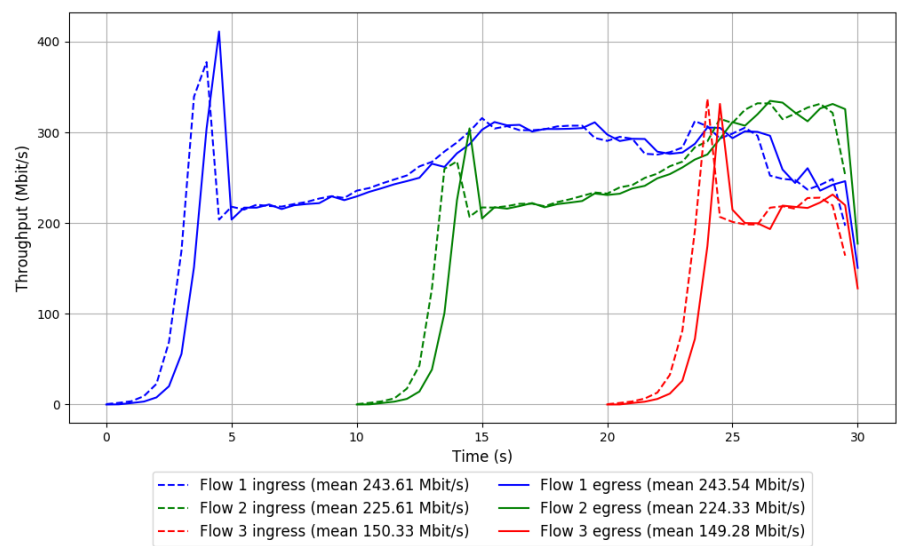
-- Flow 3:

Average throughput: 149.28 Mbit/s

95th percentile per-packet one-way delay: 87.300 ms

Loss rate: 2.45%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-05 21:35:04

End at: 2018-06-05 21:35:34

Local clock offset: -0.056 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-06-06 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.86 Mbit/s

95th percentile per-packet one-way delay: 86.768 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 286.48 Mbit/s

95th percentile per-packet one-way delay: 86.466 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 279.90 Mbit/s

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

Loss rate: 0.97%

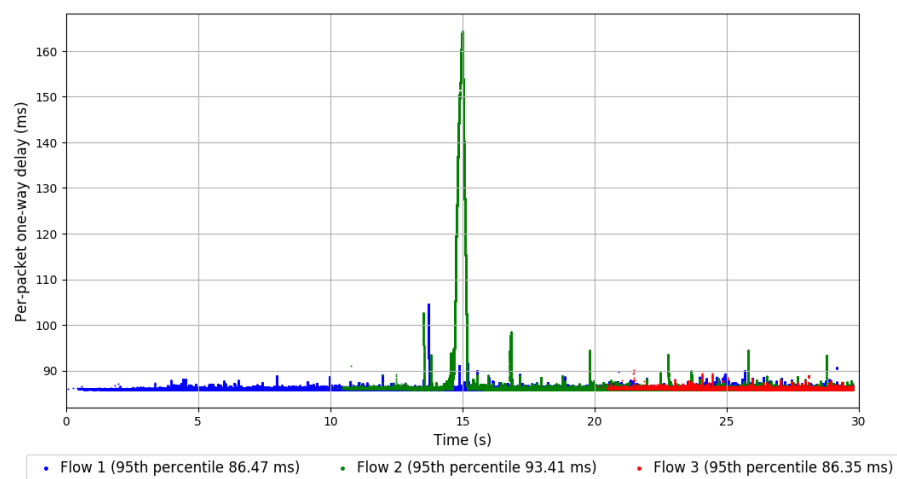
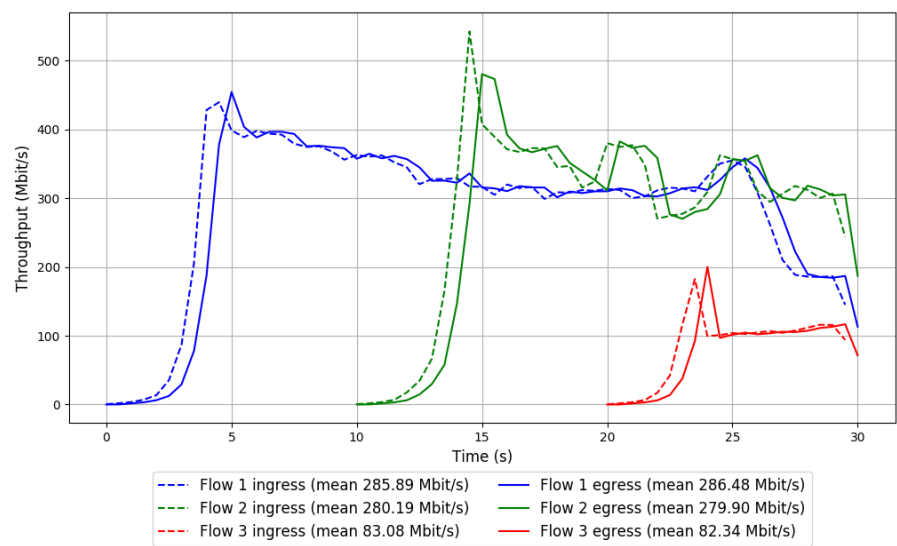
-- Flow 3:

Average throughput: 82.34 Mbit/s

95th percentile per-packet one-way delay: 86.351 ms

Loss rate: 2.62%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-05 21:57:45

End at: 2018-06-05 21:58:15

Local clock offset: -0.073 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-06 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.82 Mbit/s

95th percentile per-packet one-way delay: 86.523 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 285.20 Mbit/s

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

Loss rate: 0.59%

-- Flow 2:

Average throughput: 194.27 Mbit/s

95th percentile per-packet one-way delay: 86.651 ms

Loss rate: 1.03%

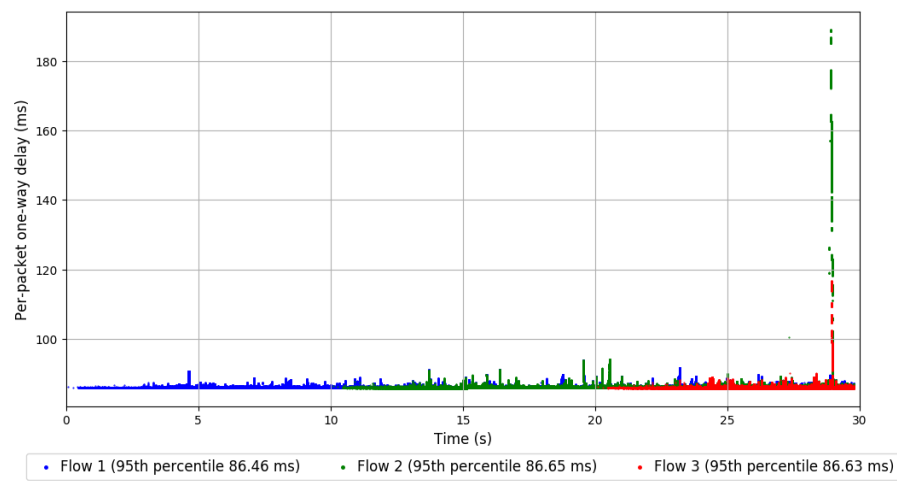
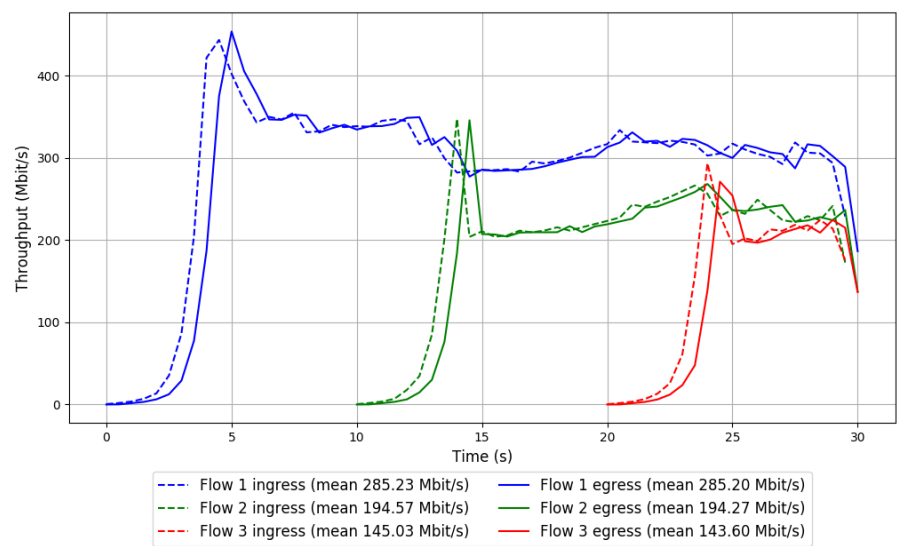
-- Flow 3:

Average throughput: 143.60 Mbit/s

95th percentile per-packet one-way delay: 86.629 ms

Loss rate: 2.72%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-05 22:20:11

End at: 2018-06-05 22:20:41

Local clock offset: -0.136 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-06 00:46:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 456.75 Mbit/s

95th percentile per-packet one-way delay: 88.110 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 285.25 Mbit/s

95th percentile per-packet one-way delay: 88.411 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 189.14 Mbit/s

95th percentile per-packet one-way delay: 86.615 ms

Loss rate: 1.11%

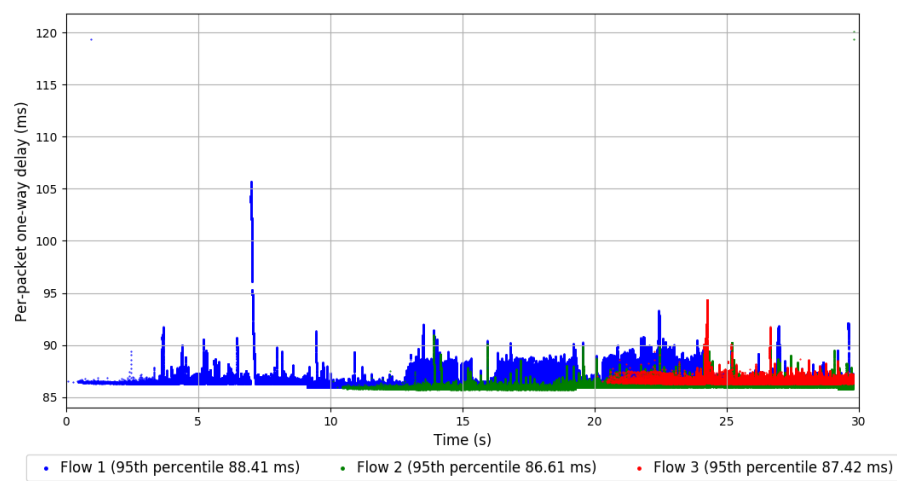
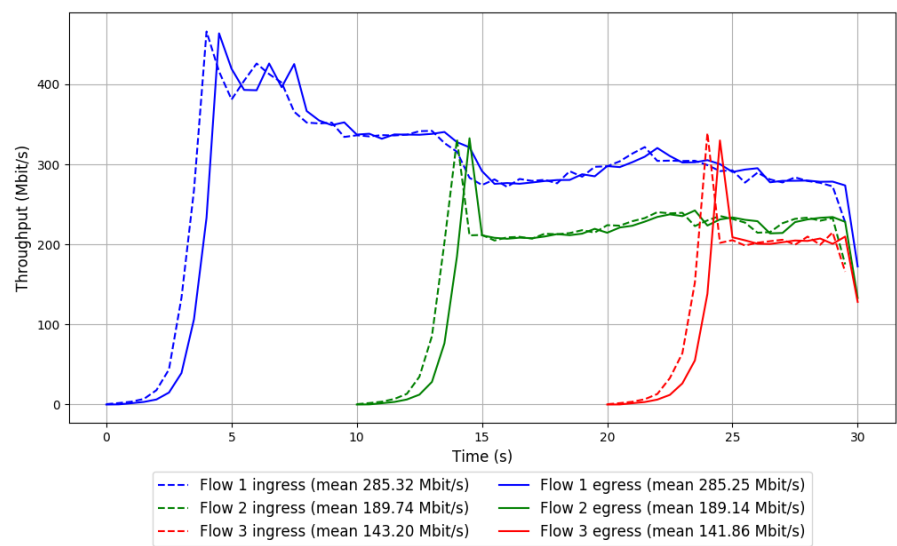
-- Flow 3:

Average throughput: 141.86 Mbit/s

95th percentile per-packet one-way delay: 87.421 ms

Loss rate: 2.68%

Run 9: Report of PCC-Vivace — Data Link

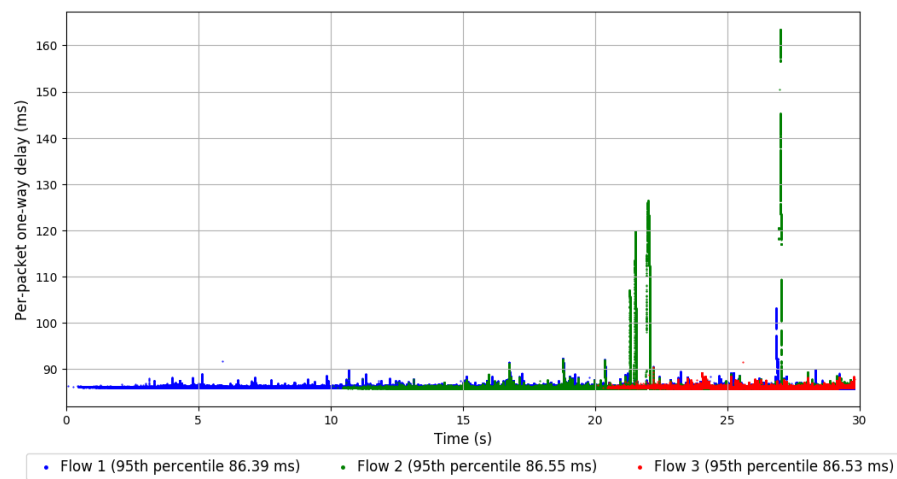
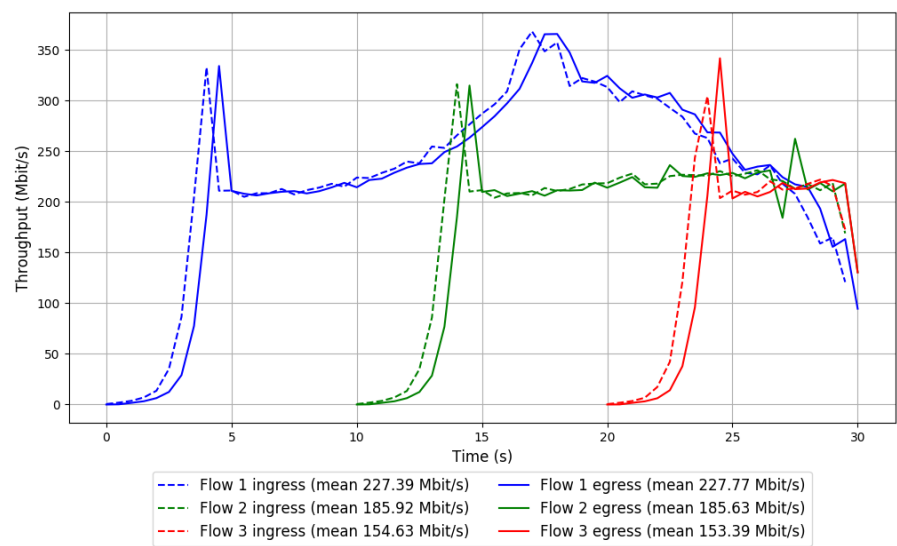


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-05 22:42:41
End at: 2018-06-05 22:43:11
Local clock offset: -0.045 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 400.86 Mbit/s
95th percentile per-packet one-way delay: 86.477 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 227.77 Mbit/s
95th percentile per-packet one-way delay: 86.395 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 185.63 Mbit/s
95th percentile per-packet one-way delay: 86.553 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 153.39 Mbit/s
95th percentile per-packet one-way delay: 86.535 ms
Loss rate: 2.53%

Run 10: Report of PCC-Vivace — Data Link

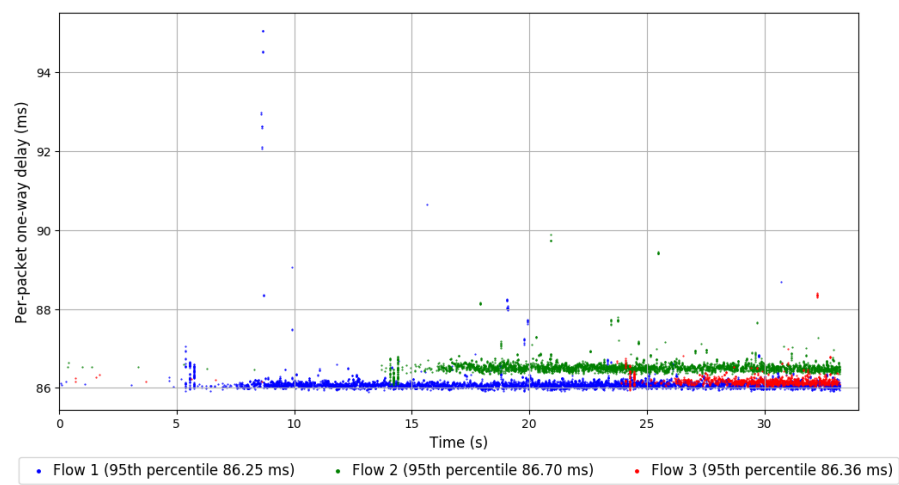
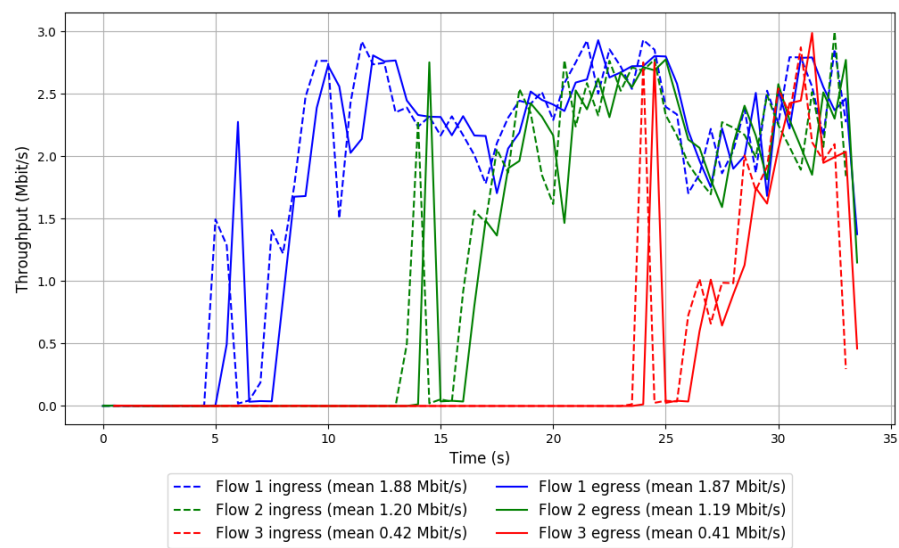


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-05 19:26:52
End at: 2018-06-05 19:27:22
Local clock offset: 0.417 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-06-06 00:46:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 86.610 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 86.250 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 86.700 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 86.364 ms
Loss rate: 0.92%
```

Run 1: Report of WebRTC media — Data Link

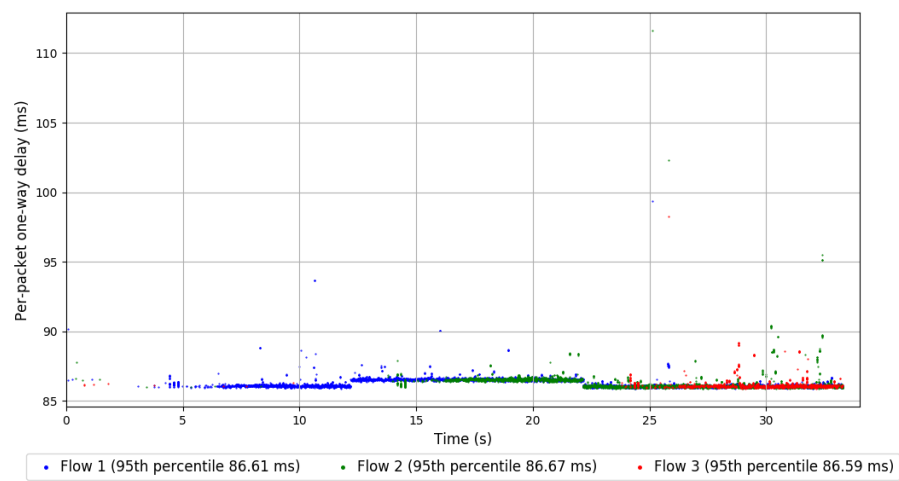
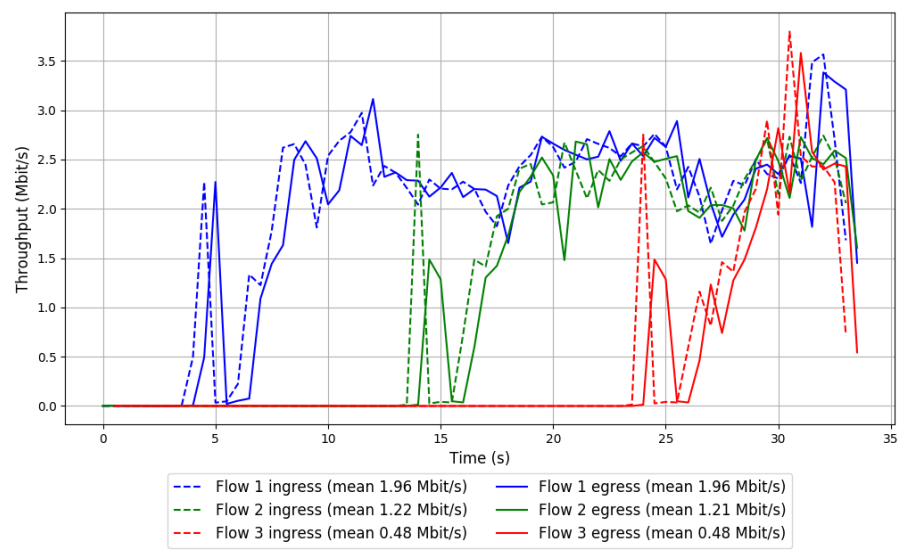


Run 2: Statistics of WebRTC media

Start at: 2018-06-05 19:49:32
End at: 2018-06-05 19:50:02
Local clock offset: 0.094 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 86.623 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 86.673 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 86.588 ms
Loss rate: 1.31%

Run 2: Report of WebRTC media — Data Link

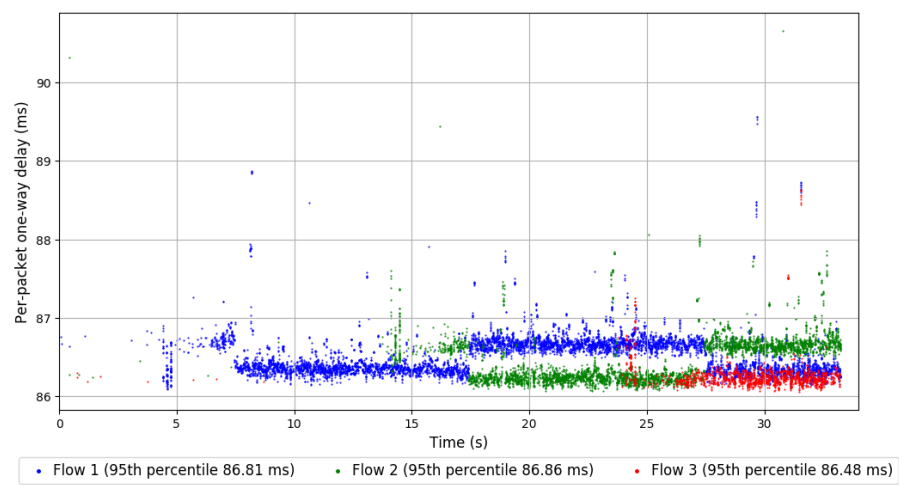
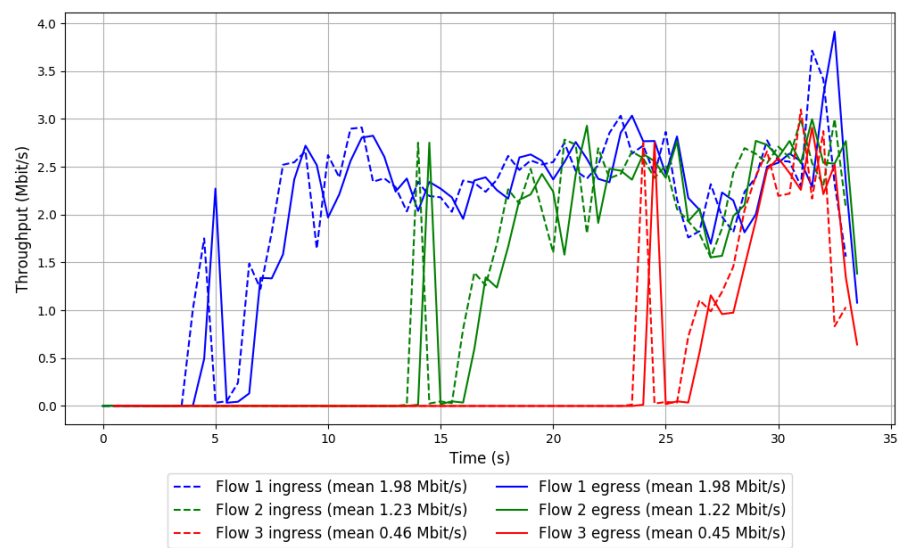


Run 3: Statistics of WebRTC media

Start at: 2018-06-05 20:12:16
End at: 2018-06-05 20:12:46
Local clock offset: 0.023 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 86.816 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 86.810 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 86.862 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.483 ms
Loss rate: 1.90%

Run 3: Report of WebRTC media — Data Link

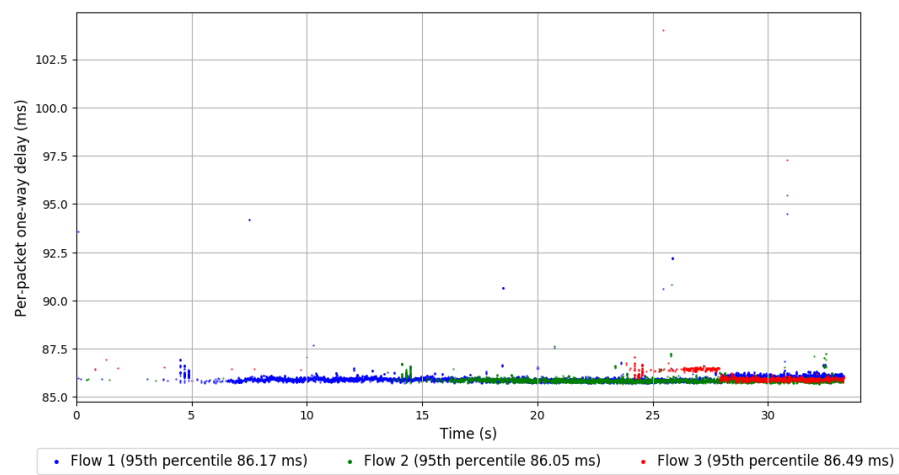
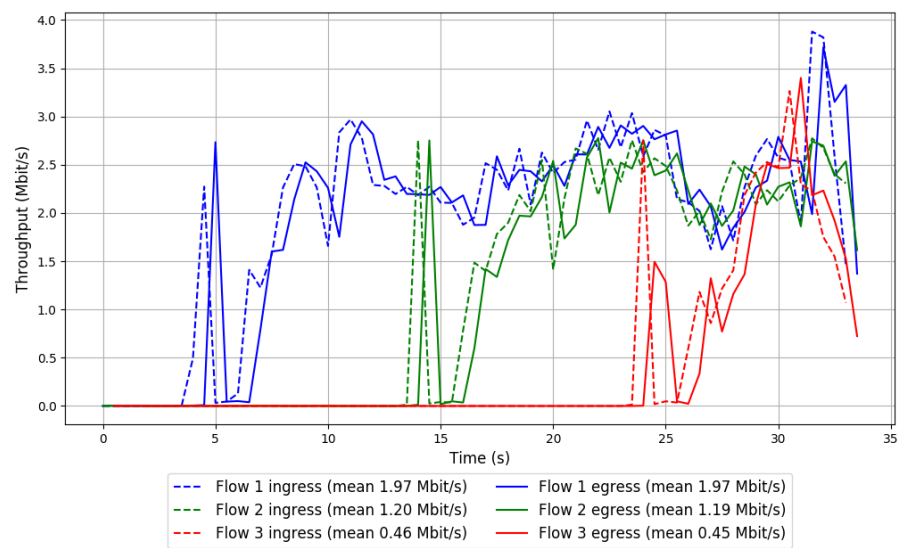


Run 4: Statistics of WebRTC media

Start at: 2018-06-05 20:34:56
End at: 2018-06-05 20:35:26
Local clock offset: -0.353 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 86.207 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 86.171 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 86.050 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.492 ms
Loss rate: 1.90%

Run 4: Report of WebRTC media — Data Link

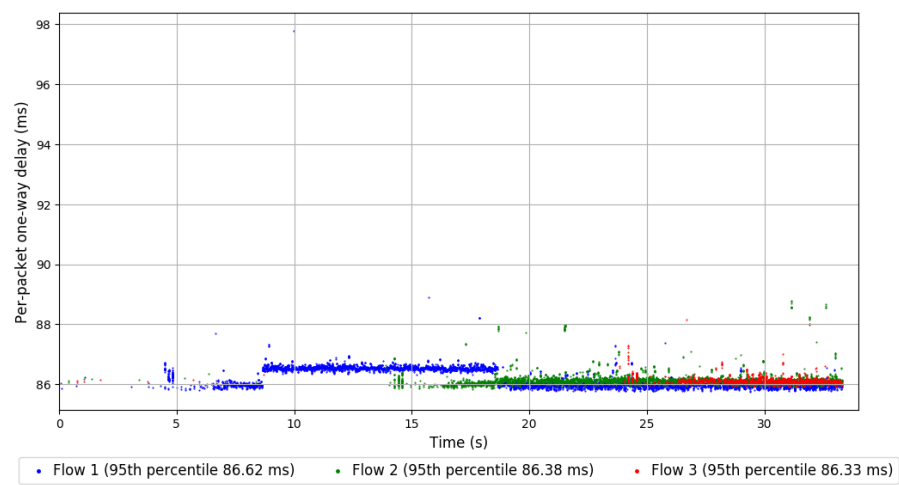
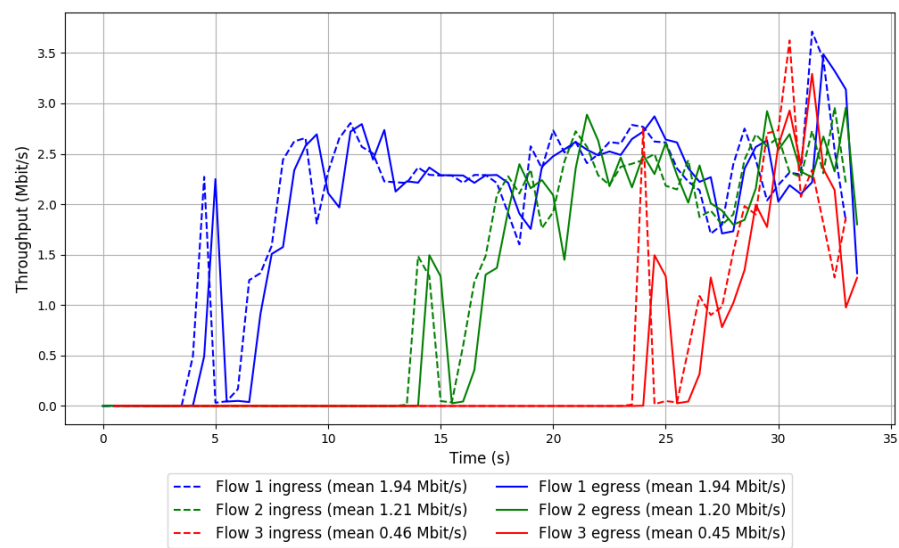


Run 5: Statistics of WebRTC media

Start at: 2018-06-05 20:57:25
End at: 2018-06-05 20:57:55
Local clock offset: -0.262 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 86.599 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 86.620 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 86.375 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.327 ms
Loss rate: 3.11%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-05 21:20:08

End at: 2018-06-05 21:20:38

Local clock offset: -0.057 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-06 00:46:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 86.545 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 86.554 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 86.436 ms

Loss rate: 0.82%

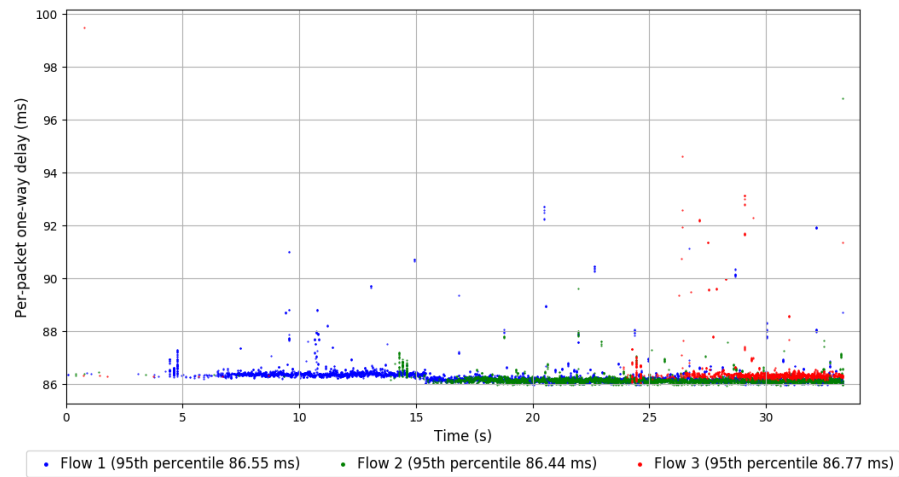
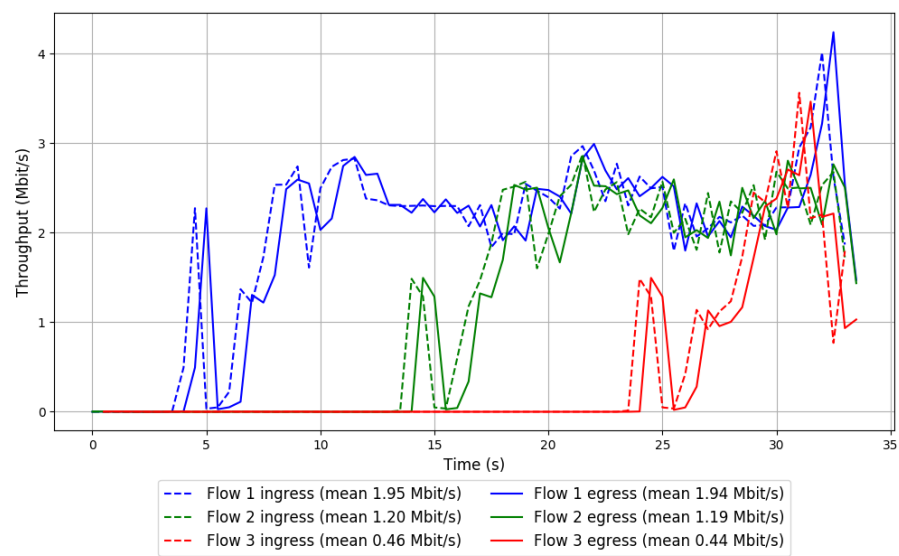
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.769 ms

Loss rate: 3.17%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-05 21:42:47

End at: 2018-06-05 21:43:17

Local clock offset: -0.063 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-06 00:46:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 86.480 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 86.344 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 86.336 ms

Loss rate: 1.10%

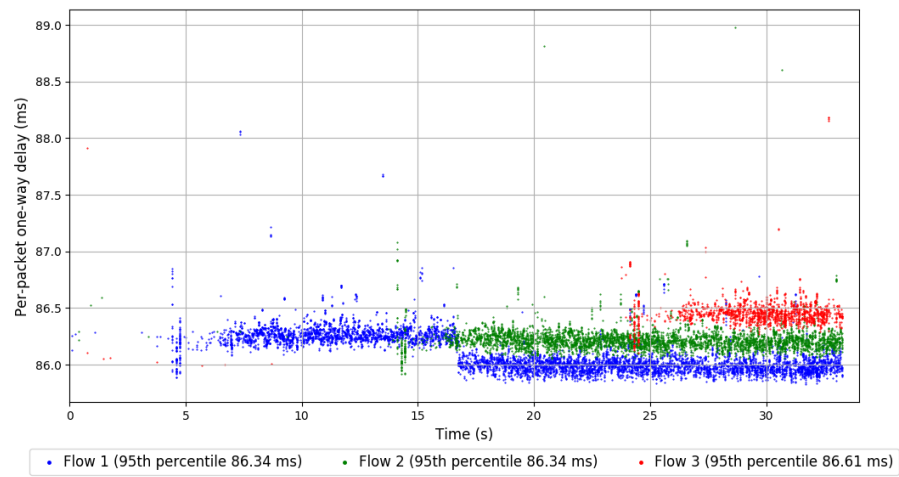
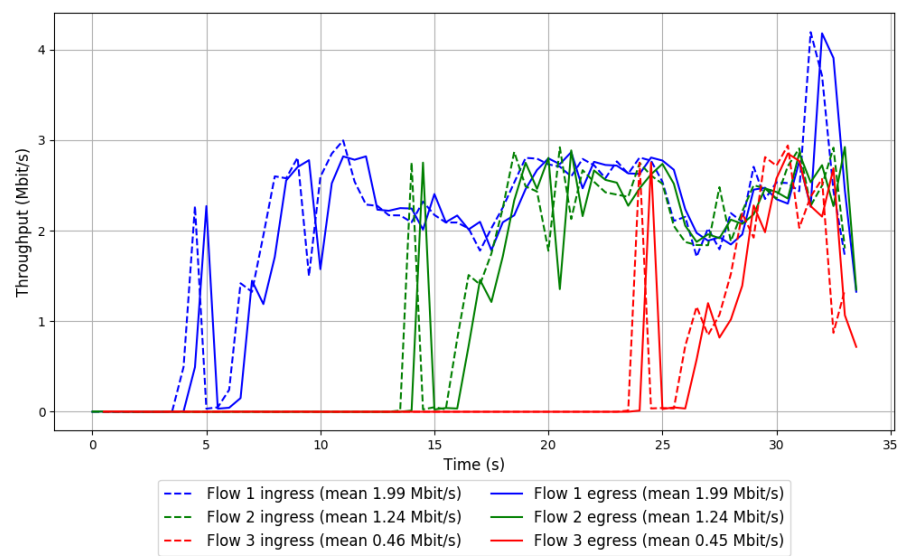
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.612 ms

Loss rate: 2.47%

Run 7: Report of WebRTC media — Data Link

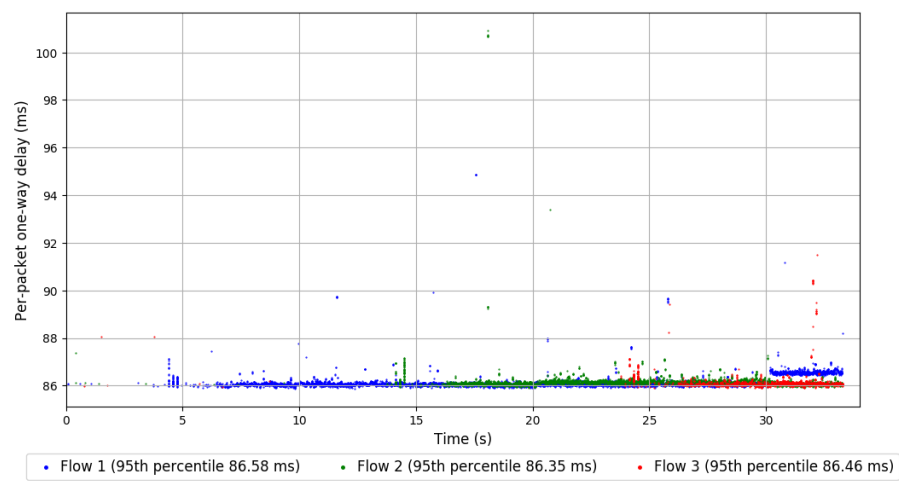
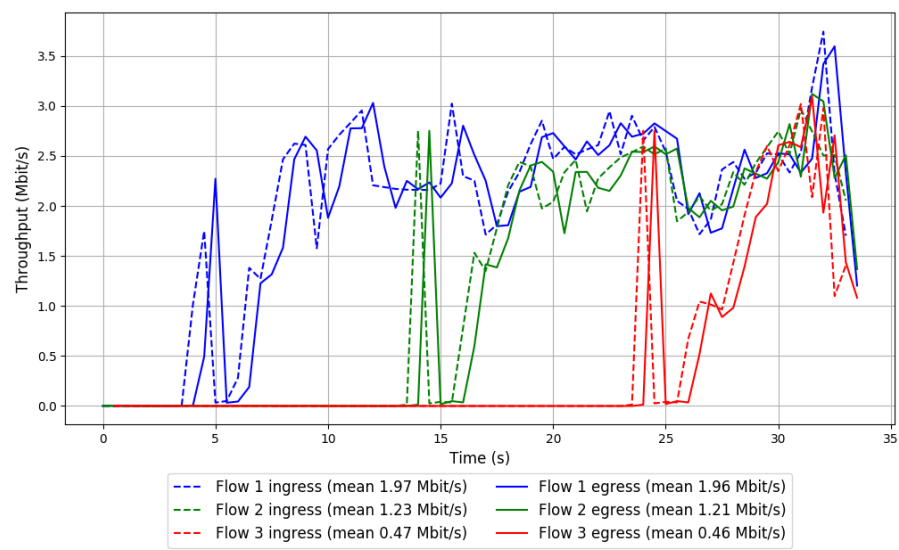


Run 8: Statistics of WebRTC media

Start at: 2018-06-05 22:05:04
End at: 2018-06-05 22:05:34
Local clock offset: -0.066 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 86.554 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 86.577 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 86.347 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.458 ms
Loss rate: 2.03%

Run 8: Report of WebRTC media — Data Link

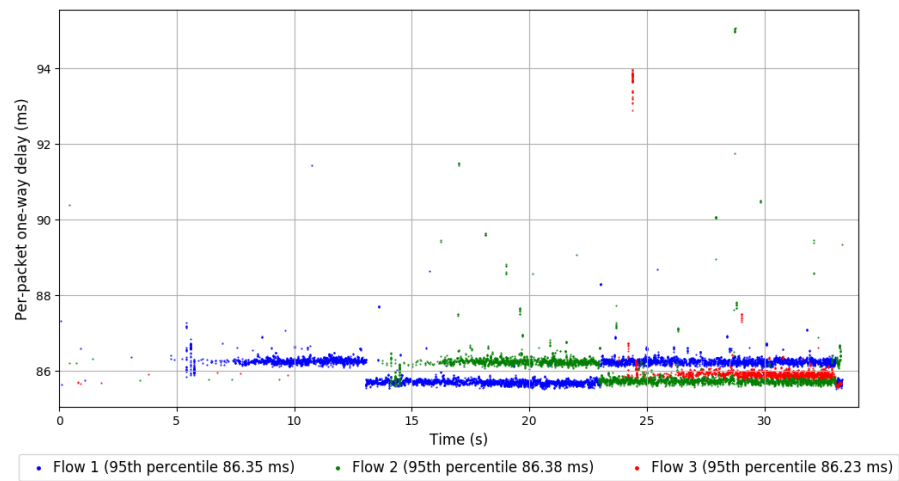
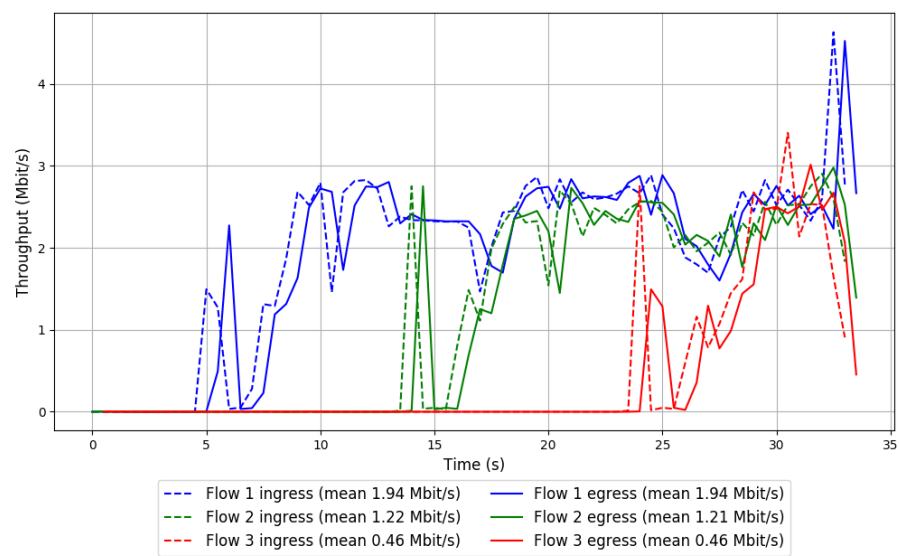


Run 9: Statistics of WebRTC media

Start at: 2018-06-05 22:27:31
End at: 2018-06-05 22:28:01
Local clock offset: -0.375 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 86.353 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 86.352 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 86.379 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.232 ms
Loss rate: 1.64%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-05 22:50:15
End at: 2018-06-05 22:50:45
Local clock offset: 0.006 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-06-06 00:46:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 86.612 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 86.407 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 86.420 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.757 ms
Loss rate: 1.40%

Run 10: Report of WebRTC media — Data Link

