

Pantheon Report

Generated at 2018-06-02 04:08:59 (UTC).

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

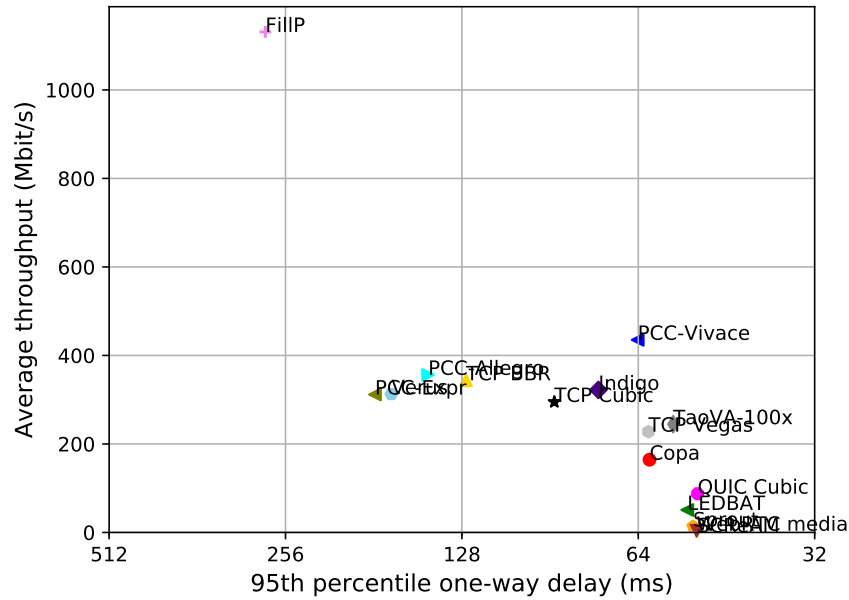
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

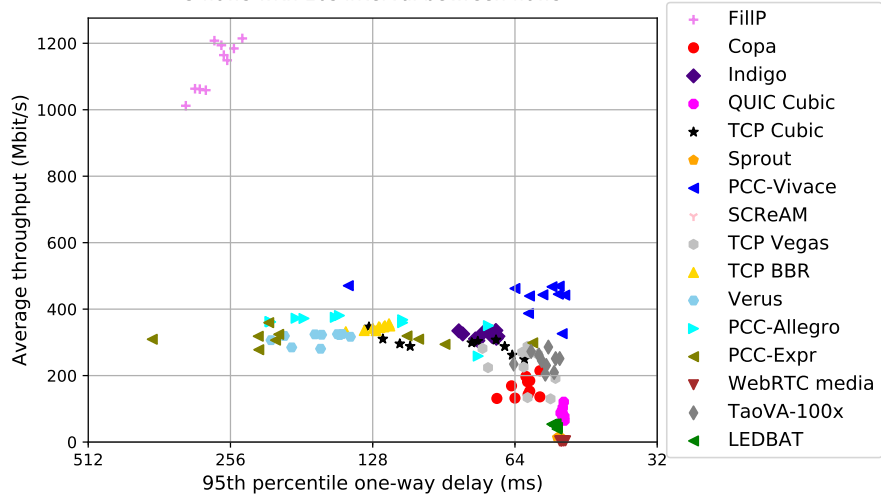
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/llnwd @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 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 London, 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 London, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



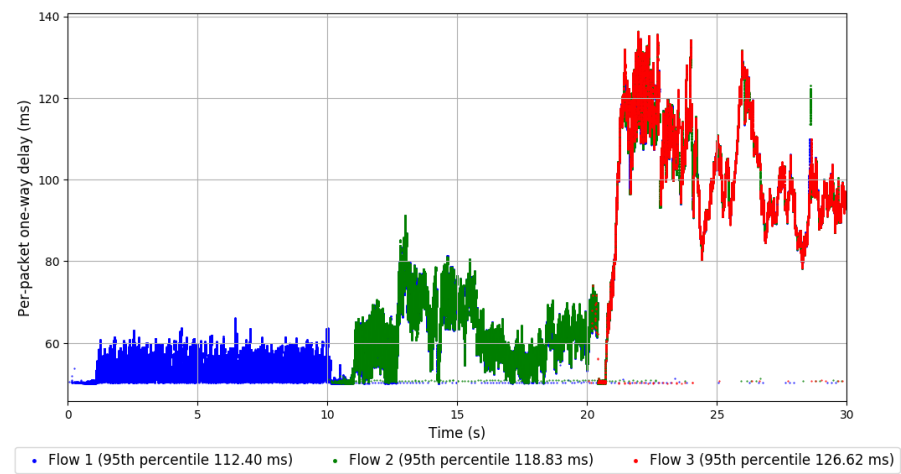
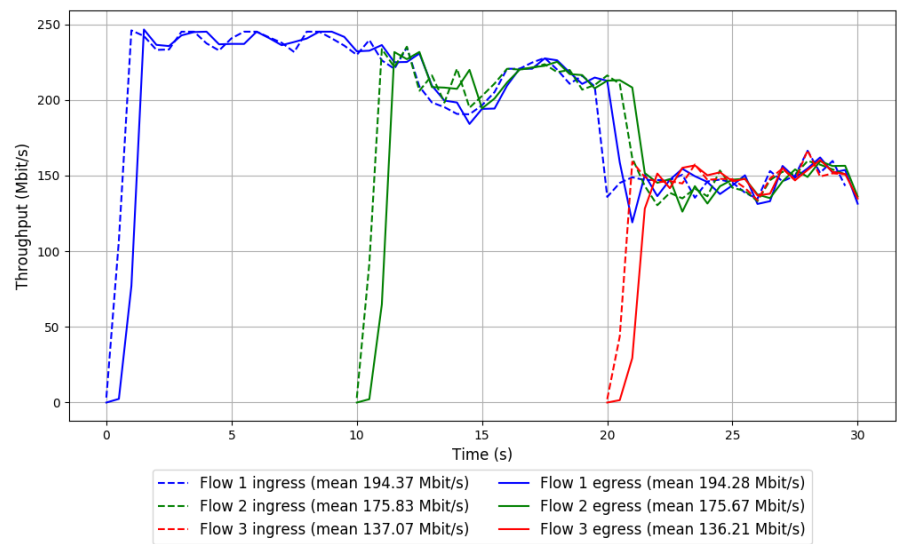
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	186.42	170.14	134.52	122.16	126.04	131.51	0.39	0.66	1.71
Copa	10	90.47	77.51	74.59	59.69	63.86	62.40	0.28	0.44	0.91
TCP Cubic	10	178.40	143.61	63.74	87.56	90.54	89.20	0.29	1.10	3.09
FillP	10	584.74	569.21	510.81	277.76	268.02	227.59	4.02	5.29	6.99
Indigo	10	186.97	154.42	100.53	71.67	75.69	81.74	0.33	0.52	1.20
LEDBAT	10	33.26	21.27	10.46	52.72	52.91	52.88	0.66	1.03	2.17
PCC-Allegro	10	314.85	51.50	21.66	145.52	151.10	122.19	0.57	0.82	1.48
PCC-Expr	10	206.45	129.89	58.06	178.43	123.83	124.47	4.99	3.21	3.61
QUIC Cubic	10	54.22	33.76	33.33	50.48	50.24	50.39	0.42	0.95	1.29
SCReAM	10	0.22	0.22	0.22	50.58	50.59	50.60	0.27	0.59	1.09
Sprout	10	6.93	7.01	6.05	51.55	51.67	51.59	0.37	0.46	1.06
TaoVA-100x	10	124.83	130.86	106.02	52.20	57.07	57.52	0.21	0.47	0.67
TCP Vegas	10	114.10	121.49	99.53	59.89	61.02	61.11	0.29	0.53	1.18
Verus	10	201.27	123.98	89.42	154.73	168.68	208.00	0.52	0.93	4.86
PCC-Vivace	10	245.30	218.64	136.68	59.34	93.32	53.27	0.35	0.67	1.46
WebRTC media	10	2.01	1.32	0.52	50.55	50.70	51.81	0.39	0.60	1.40

Run 1: Statistics of TCP BBR

Start at: 2018-06-01 22:12:21
End at: 2018-06-01 22:12:51
Local clock offset: -0.073 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-02 02:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.12 Mbit/s
95th percentile per-packet one-way delay: 118.217 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 194.28 Mbit/s
95th percentile per-packet one-way delay: 112.401 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 175.67 Mbit/s
95th percentile per-packet one-way delay: 118.826 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 136.21 Mbit/s
95th percentile per-packet one-way delay: 126.618 ms
Loss rate: 1.63%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-01 22:34:47

End at: 2018-06-01 22:35:17

Local clock offset: -0.133 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-02 02:03:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.25 Mbit/s

95th percentile per-packet one-way delay: 145.950 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 184.96 Mbit/s

95th percentile per-packet one-way delay: 143.945 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 161.81 Mbit/s

95th percentile per-packet one-way delay: 146.881 ms

Loss rate: 0.55%

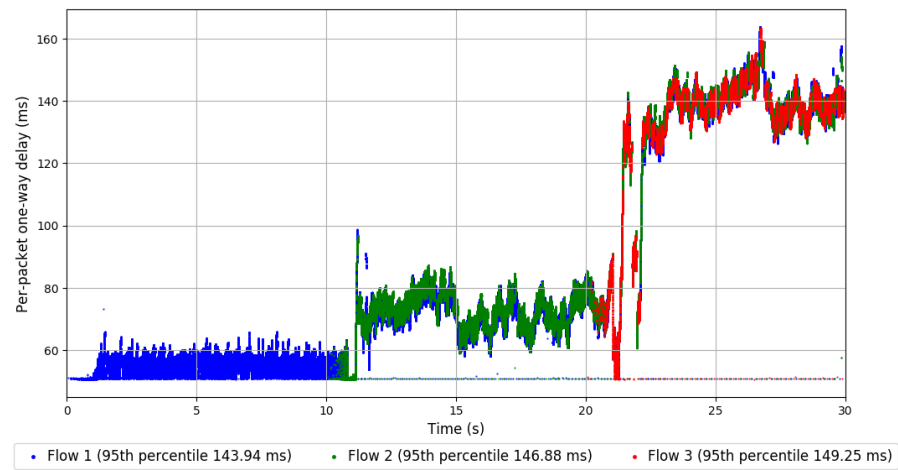
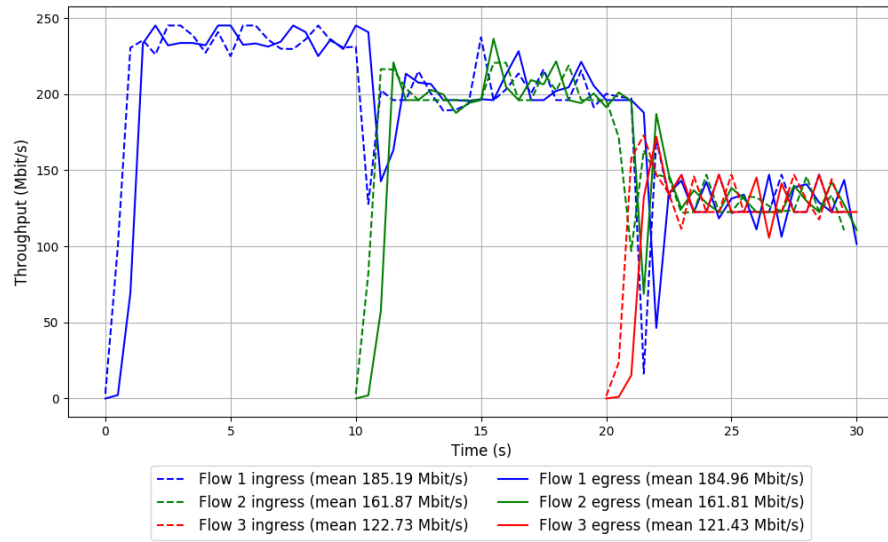
-- Flow 3:

Average throughput: 121.43 Mbit/s

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

Loss rate: 2.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-01 22:57:11

End at: 2018-06-01 22:57:41

Local clock offset: 0.302 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-02 02:03:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.30 Mbit/s

95th percentile per-packet one-way delay: 117.798 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 186.31 Mbit/s

95th percentile per-packet one-way delay: 114.530 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 170.98 Mbit/s

95th percentile per-packet one-way delay: 117.749 ms

Loss rate: 0.71%

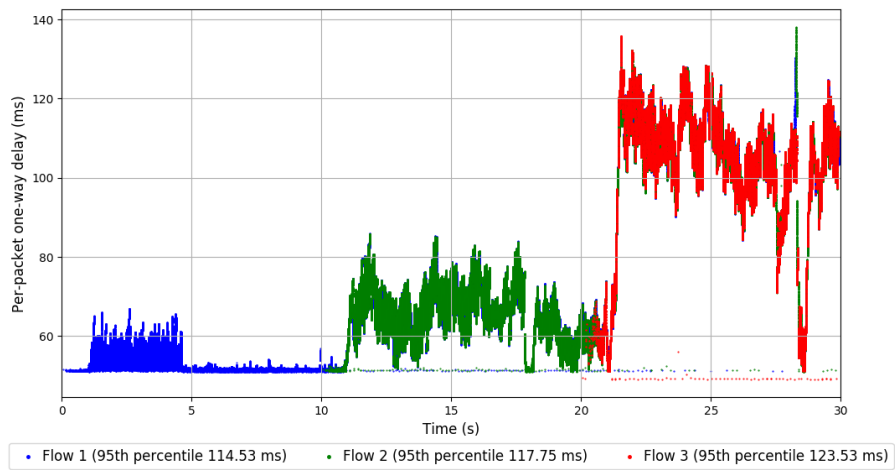
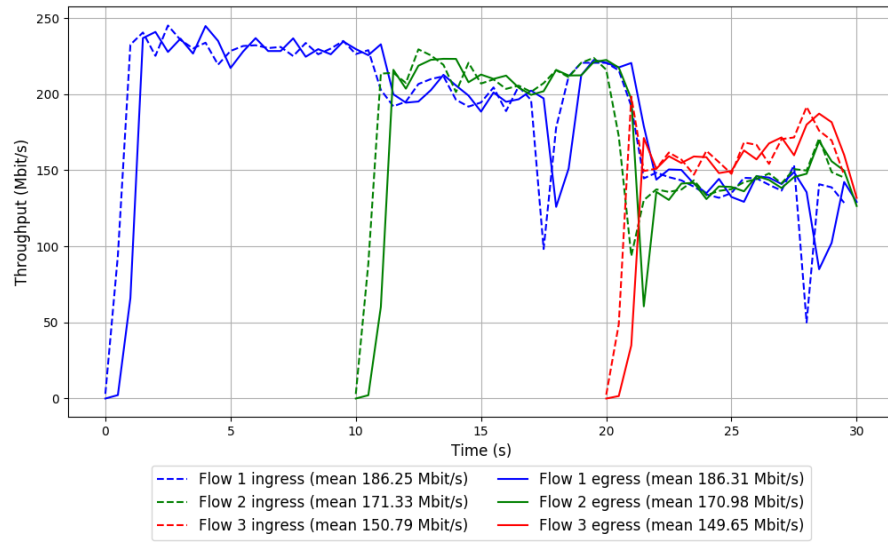
-- Flow 3:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 123.530 ms

Loss rate: 1.64%

Run 3: Report of TCP BBR — Data Link

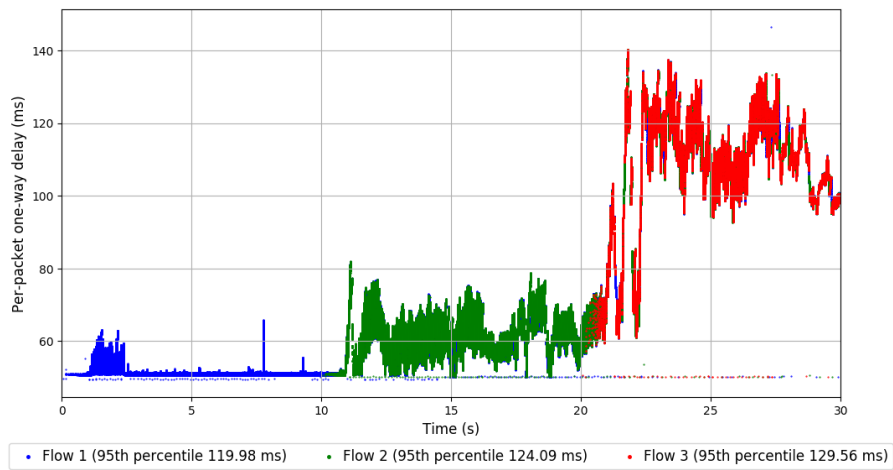
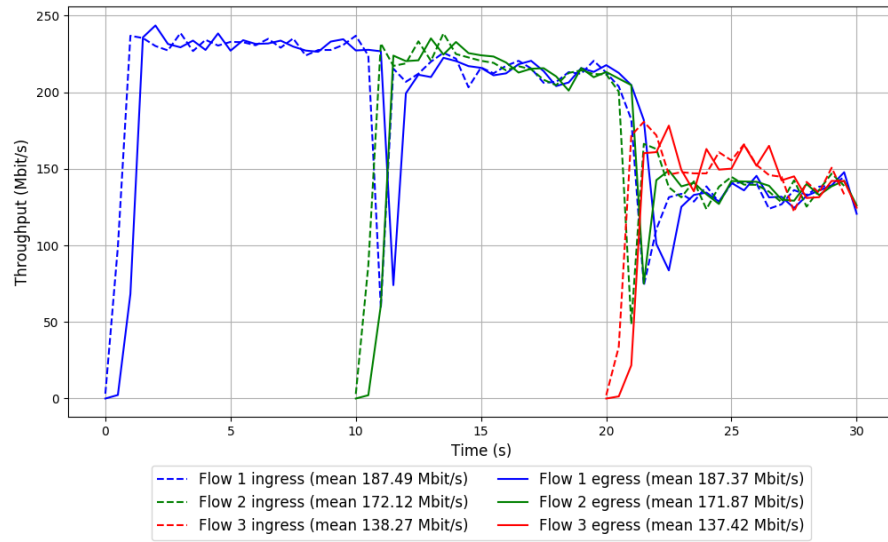


Run 4: Statistics of TCP BBR

Start at: 2018-06-01 23:19:31
End at: 2018-06-01 23:20:01
Local clock offset: -0.079 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-02 02:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.04 Mbit/s
95th percentile per-packet one-way delay: 124.207 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 187.37 Mbit/s
95th percentile per-packet one-way delay: 119.981 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 171.87 Mbit/s
95th percentile per-packet one-way delay: 124.092 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 137.42 Mbit/s
95th percentile per-packet one-way delay: 129.555 ms
Loss rate: 1.63%

Run 4: Report of TCP BBR — Data Link

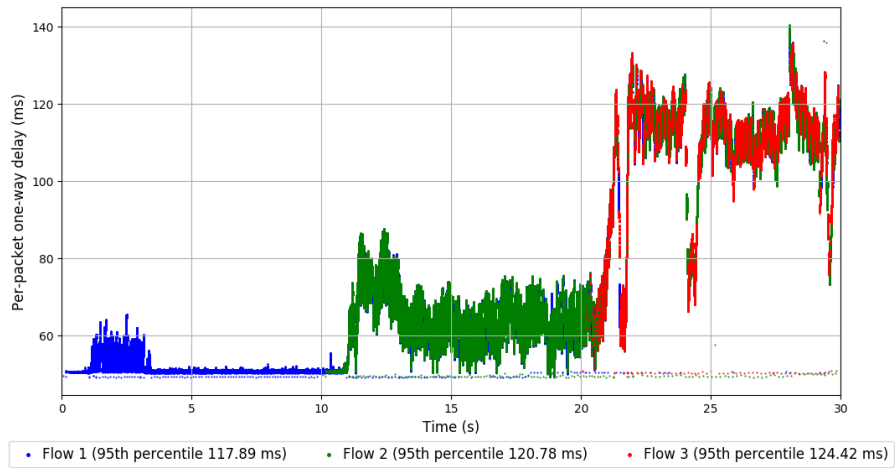
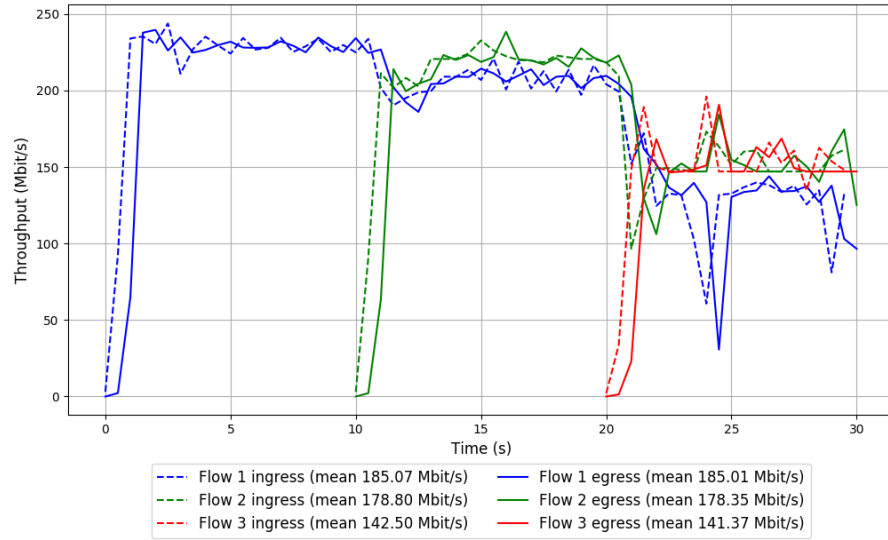


Run 5: Statistics of TCP BBR

Start at: 2018-06-01 23:41:38
End at: 2018-06-01 23:42:08
Local clock offset: -0.509 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-02 02:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.12 Mbit/s
95th percentile per-packet one-way delay: 120.643 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 185.01 Mbit/s
95th percentile per-packet one-way delay: 117.891 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 178.35 Mbit/s
95th percentile per-packet one-way delay: 120.782 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 141.37 Mbit/s
95th percentile per-packet one-way delay: 124.416 ms
Loss rate: 1.73%

Run 5: Report of TCP BBR — Data Link

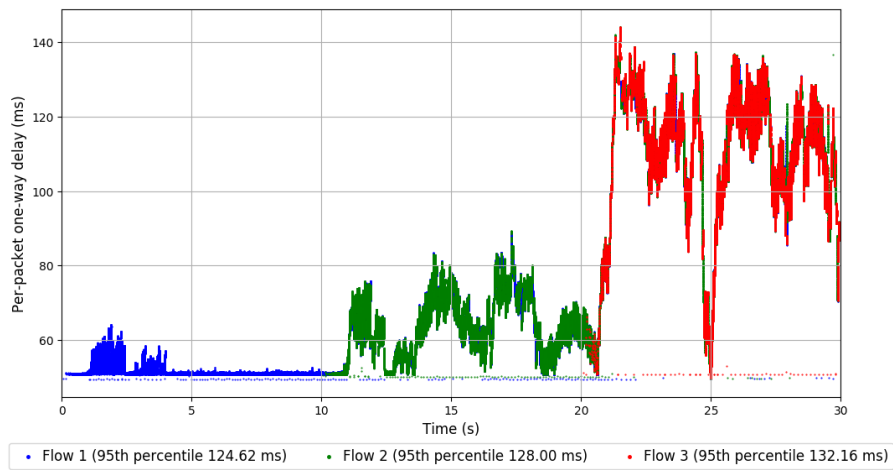
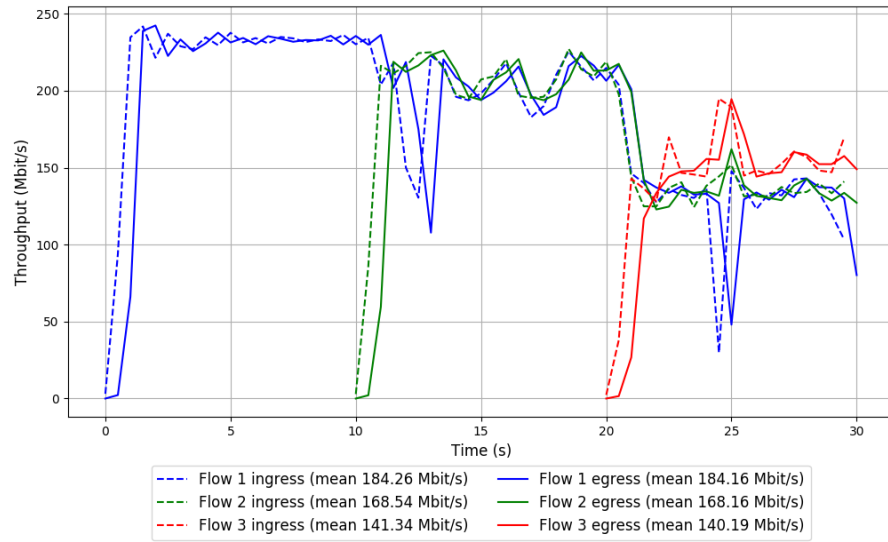


Run 6: Statistics of TCP BBR

Start at: 2018-06-02 00:03:53
End at: 2018-06-02 00:04:23
Local clock offset: -0.116 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-02 02:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 342.22 Mbit/s
95th percentile per-packet one-way delay: 127.964 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 184.16 Mbit/s
95th percentile per-packet one-way delay: 124.624 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 168.16 Mbit/s
95th percentile per-packet one-way delay: 127.997 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 140.19 Mbit/s
95th percentile per-packet one-way delay: 132.165 ms
Loss rate: 1.73%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-02 00:26:07

End at: 2018-06-02 00:26:37

Local clock offset: -0.153 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-02 02:03:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.59 Mbit/s

95th percentile per-packet one-way delay: 121.298 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 185.84 Mbit/s

95th percentile per-packet one-way delay: 118.013 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 177.47 Mbit/s

95th percentile per-packet one-way delay: 122.928 ms

Loss rate: 0.64%

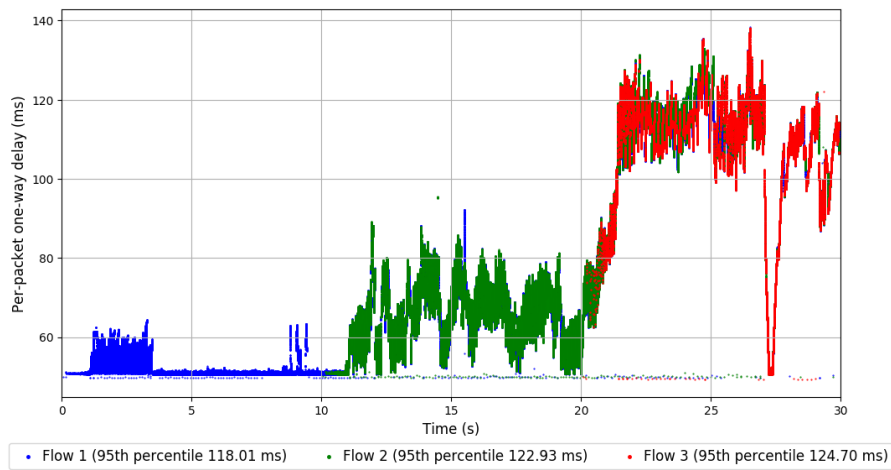
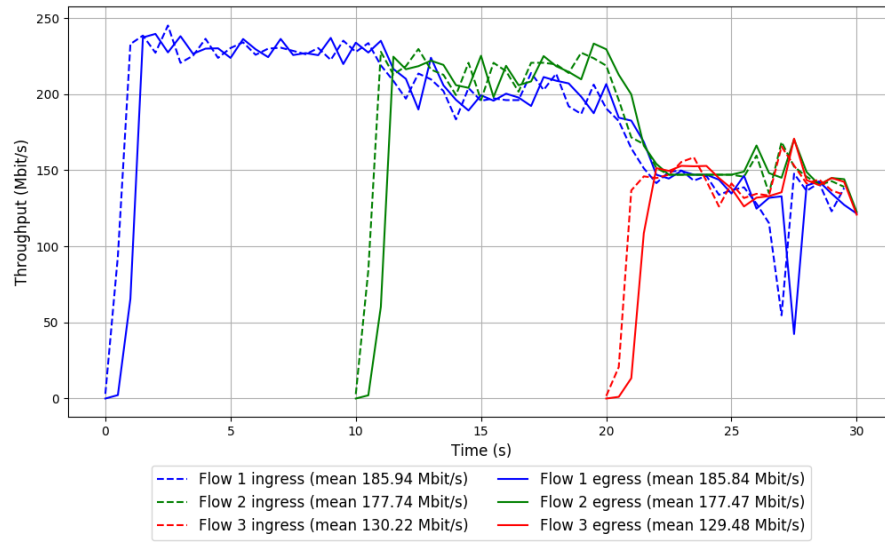
-- Flow 3:

Average throughput: 129.48 Mbit/s

95th percentile per-packet one-way delay: 124.702 ms

Loss rate: 1.57%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-02 00:48:17

End at: 2018-06-02 00:48:47

Local clock offset: -0.071 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-02 02:03:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.26 Mbit/s

95th percentile per-packet one-way delay: 125.923 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 183.85 Mbit/s

95th percentile per-packet one-way delay: 121.067 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 163.34 Mbit/s

95th percentile per-packet one-way delay: 126.372 ms

Loss rate: 0.69%

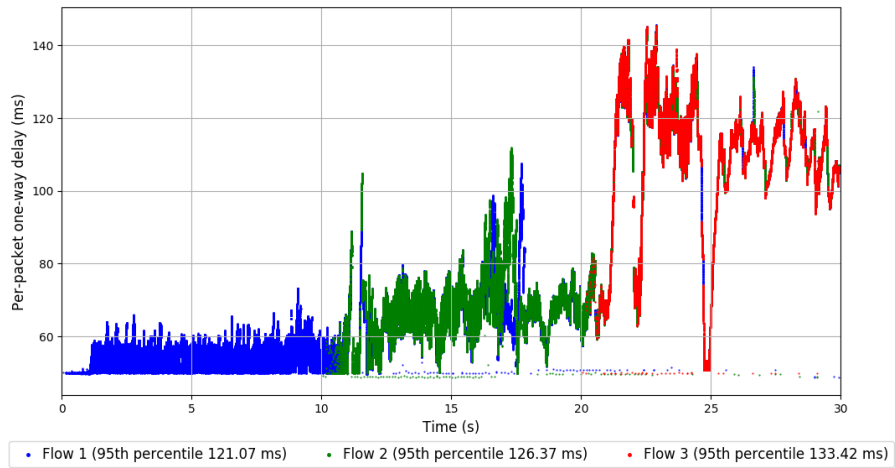
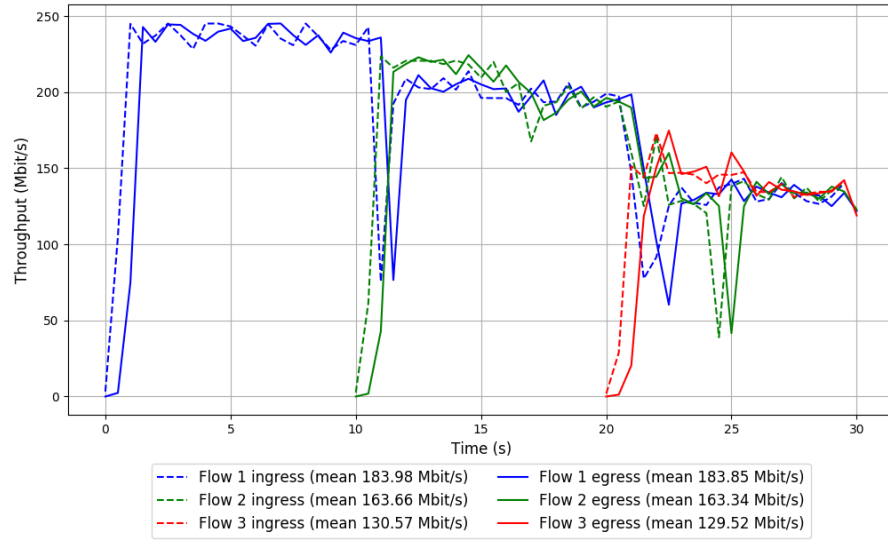
-- Flow 3:

Average throughput: 129.52 Mbit/s

95th percentile per-packet one-way delay: 133.418 ms

Loss rate: 1.76%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-02 01:10:41

End at: 2018-06-02 01:11:11

Local clock offset: -0.119 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-02 02:09:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.61 Mbit/s

95th percentile per-packet one-way delay: 133.391 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 186.18 Mbit/s

95th percentile per-packet one-way delay: 128.817 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 161.13 Mbit/s

95th percentile per-packet one-way delay: 133.286 ms

Loss rate: 0.72%

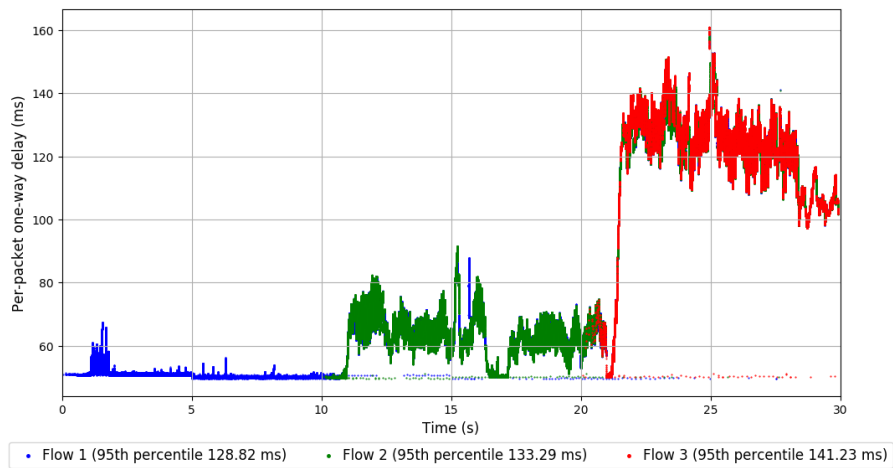
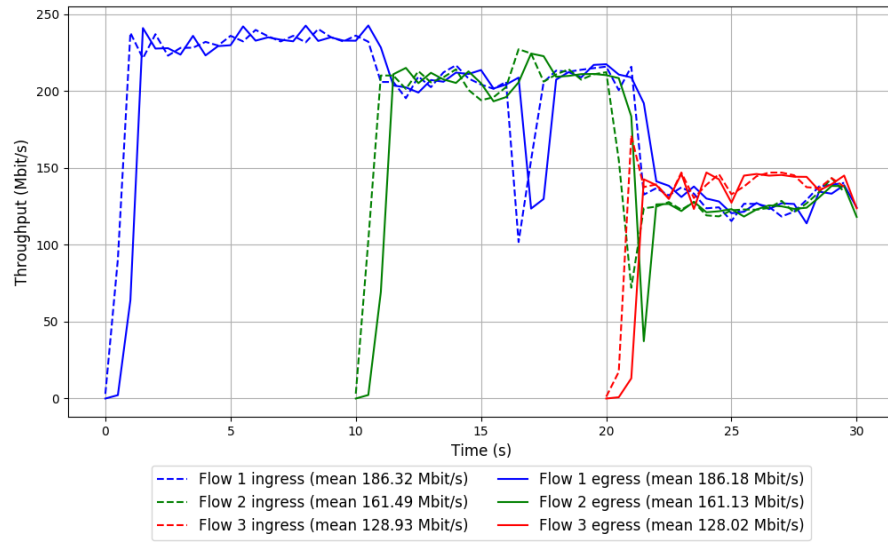
-- Flow 3:

Average throughput: 128.02 Mbit/s

95th percentile per-packet one-way delay: 141.226 ms

Loss rate: 1.71%

Run 9: Report of TCP BBR — Data Link

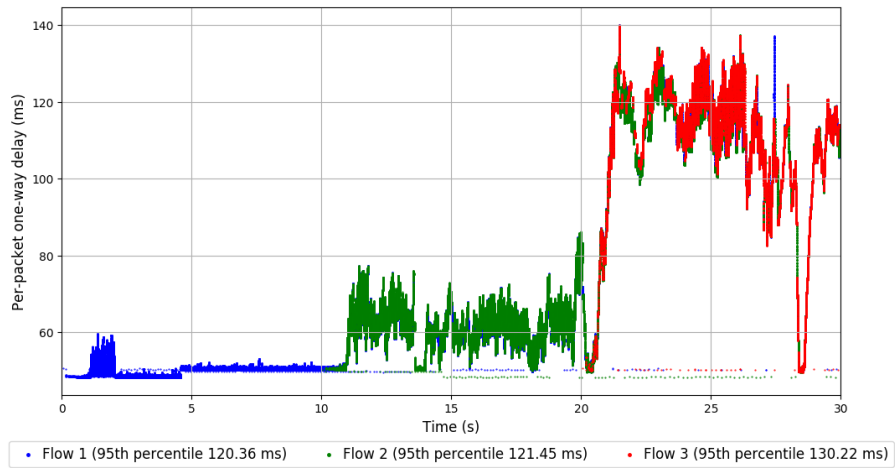
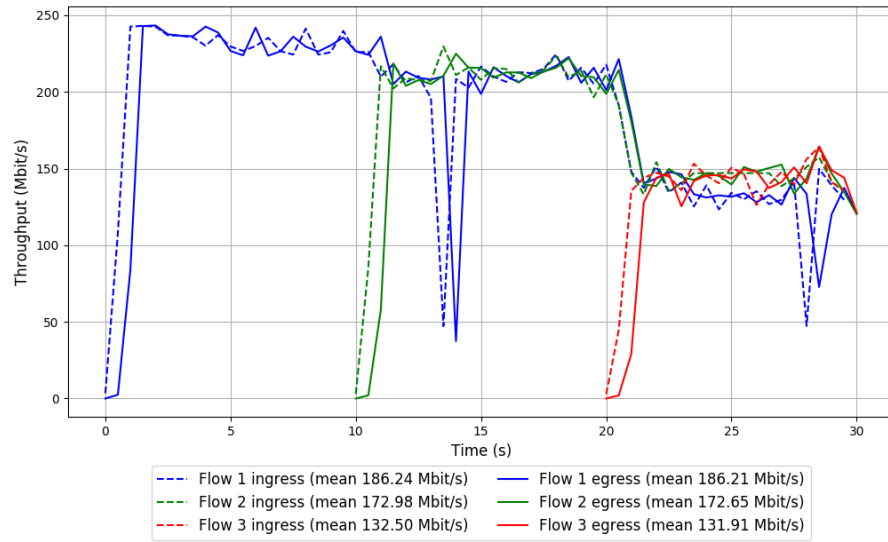


Run 10: Statistics of TCP BBR

Start at: 2018-06-02 01:33:01
End at: 2018-06-02 01:33:31
Local clock offset: -0.487 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-02 02:09:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 344.50 Mbit/s
95th percentile per-packet one-way delay: 123.629 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 186.21 Mbit/s
95th percentile per-packet one-way delay: 120.365 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 172.65 Mbit/s
95th percentile per-packet one-way delay: 121.454 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 131.91 Mbit/s
95th percentile per-packet one-way delay: 130.222 ms
Loss rate: 1.66%

Run 10: Report of TCP BBR — Data Link

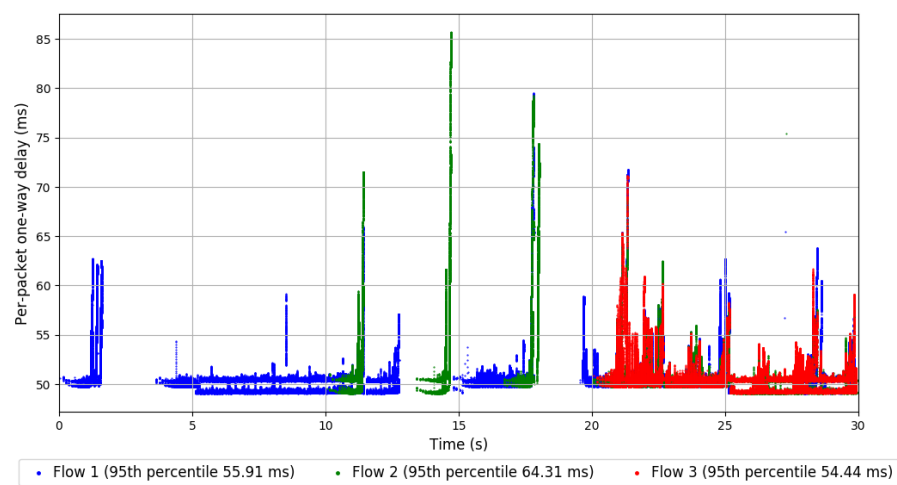
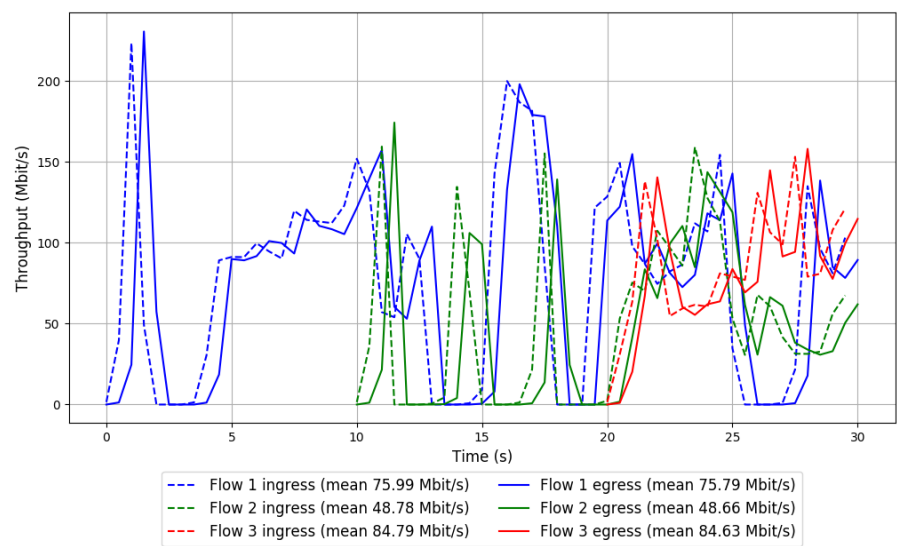


Run 1: Statistics of Copa

Start at: 2018-06-01 22:04:50
End at: 2018-06-01 22:05:20
Local clock offset: -0.495 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-02 02:09:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.99 Mbit/s
95th percentile per-packet one-way delay: 56.680 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 55.909 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 48.66 Mbit/s
95th percentile per-packet one-way delay: 64.307 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 54.437 ms
Loss rate: 1.26%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-01 22:27:12

End at: 2018-06-01 22:27:42

Local clock offset: -0.491 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-02 02:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.55 Mbit/s

95th percentile per-packet one-way delay: 56.677 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 124.14 Mbit/s

95th percentile per-packet one-way delay: 58.530 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 98.26 Mbit/s

95th percentile per-packet one-way delay: 54.716 ms

Loss rate: 0.42%

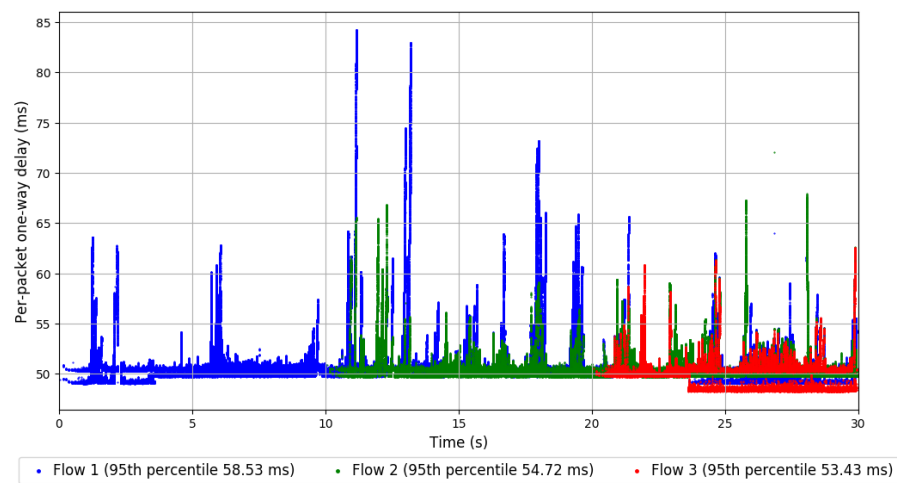
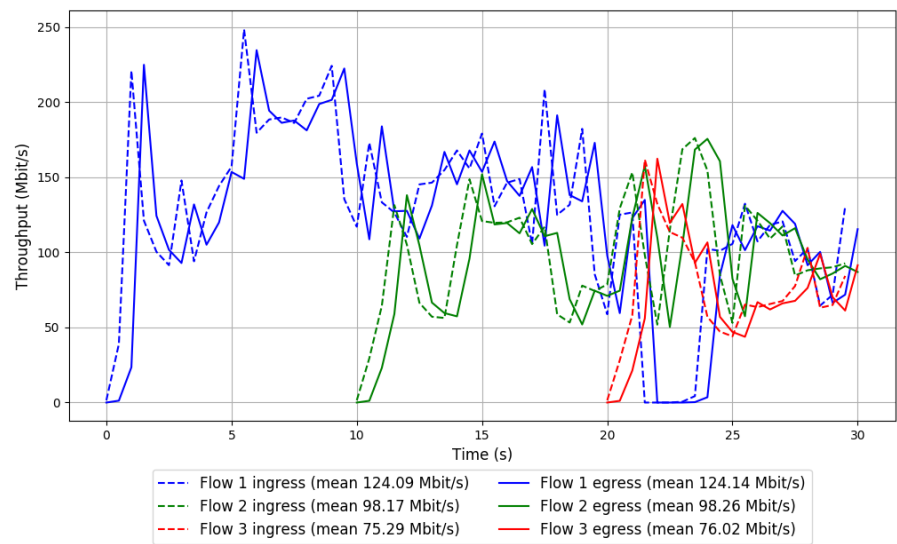
-- Flow 3:

Average throughput: 76.02 Mbit/s

95th percentile per-packet one-way delay: 53.432 ms

Loss rate: 0.07%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-01 22:49:38

End at: 2018-06-01 22:50:08

Local clock offset: -0.187 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-02 02:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.54 Mbit/s

95th percentile per-packet one-way delay: 59.548 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 99.00 Mbit/s

95th percentile per-packet one-way delay: 56.070 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 79.67 Mbit/s

95th percentile per-packet one-way delay: 66.844 ms

Loss rate: 0.47%

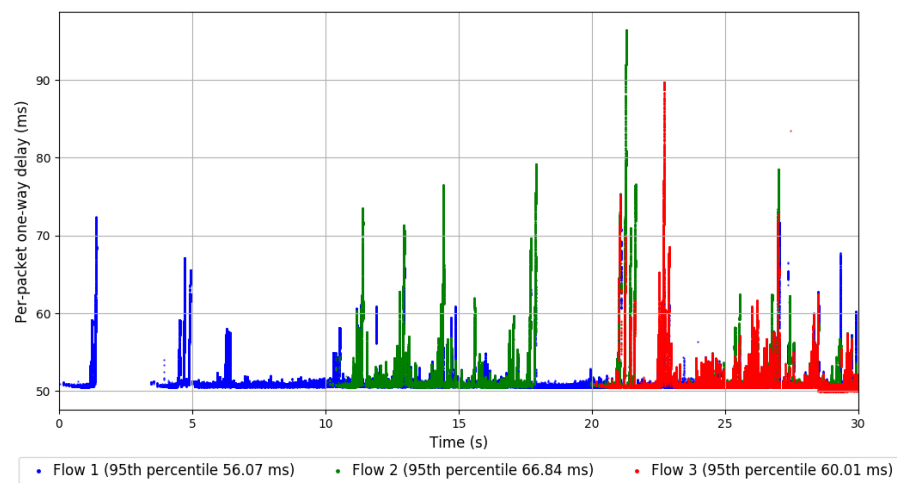
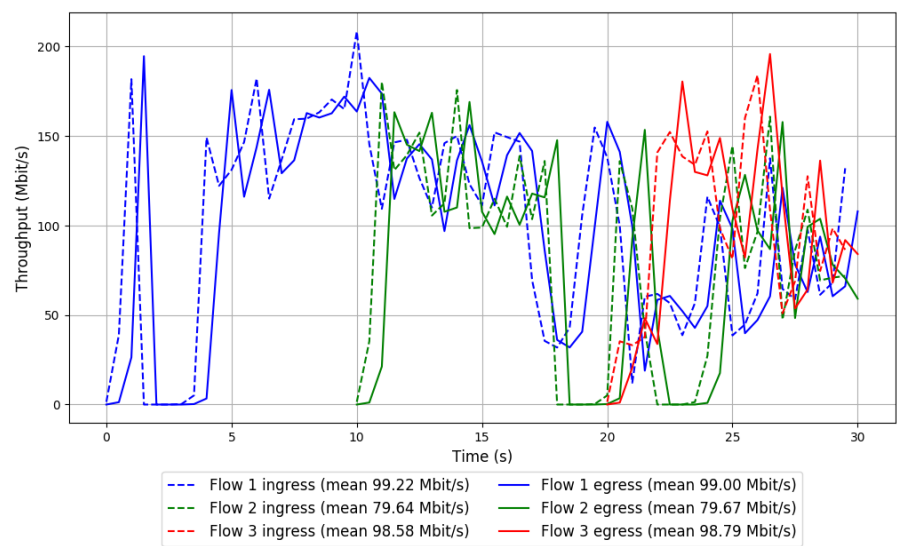
-- Flow 3:

Average throughput: 98.79 Mbit/s

95th percentile per-packet one-way delay: 60.013 ms

Loss rate: 0.80%

Run 3: Report of Copa — Data Link

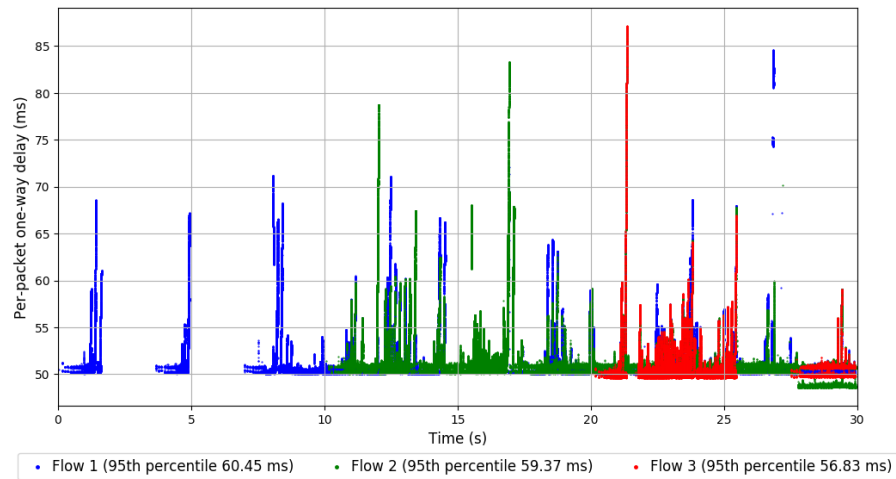
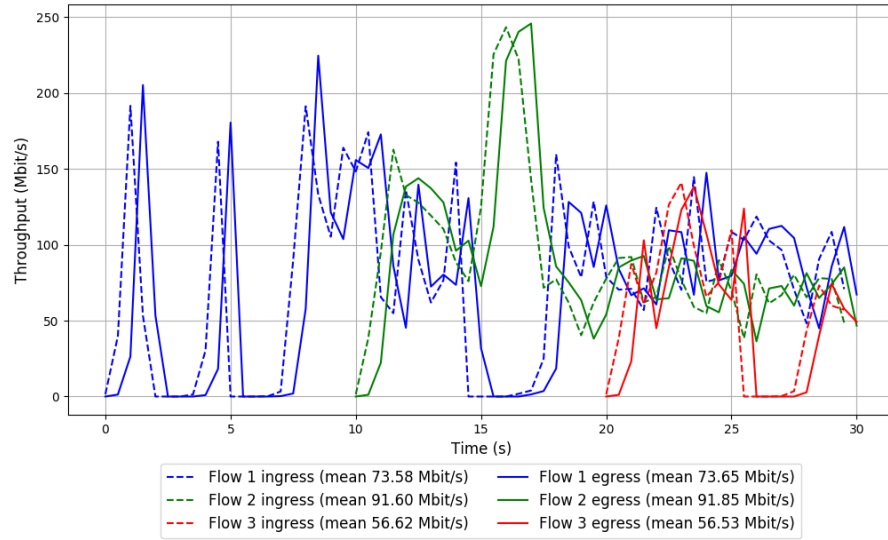


Run 4: Statistics of Copa

Start at: 2018-06-01 23:11:58
End at: 2018-06-01 23:12:28
Local clock offset: -0.126 ms
Remote clock offset: -0.056 ms

```
# Below is generated by plot.py at 2018-06-02 02:10:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.24 Mbit/s
95th percentile per-packet one-way delay: 59.555 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 60.452 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 59.374 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 56.53 Mbit/s
95th percentile per-packet one-way delay: 56.829 ms
Loss rate: 1.17%
```

Run 4: Report of Copa — Data Link

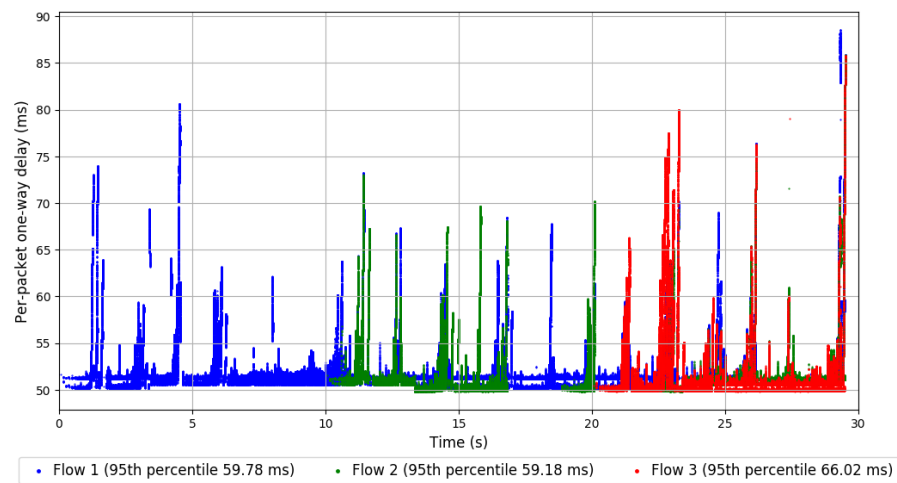
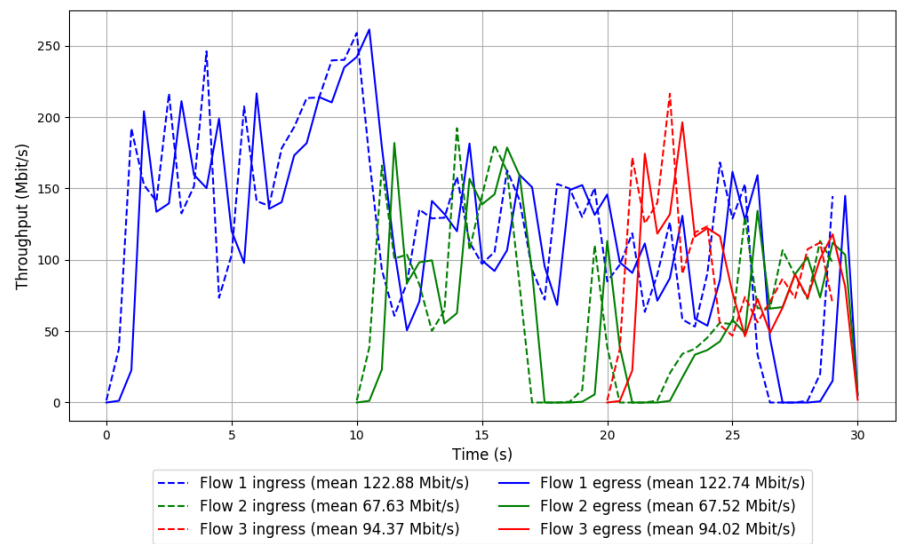


Run 5: Statistics of Copa

Start at: 2018-06-01 23:34:02
End at: 2018-06-01 23:34:32
Local clock offset: 0.339 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-02 02:10:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 197.44 Mbit/s
95th percentile per-packet one-way delay: 60.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 122.74 Mbit/s
95th percentile per-packet one-way delay: 59.781 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.52 Mbit/s
95th percentile per-packet one-way delay: 59.181 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 66.021 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

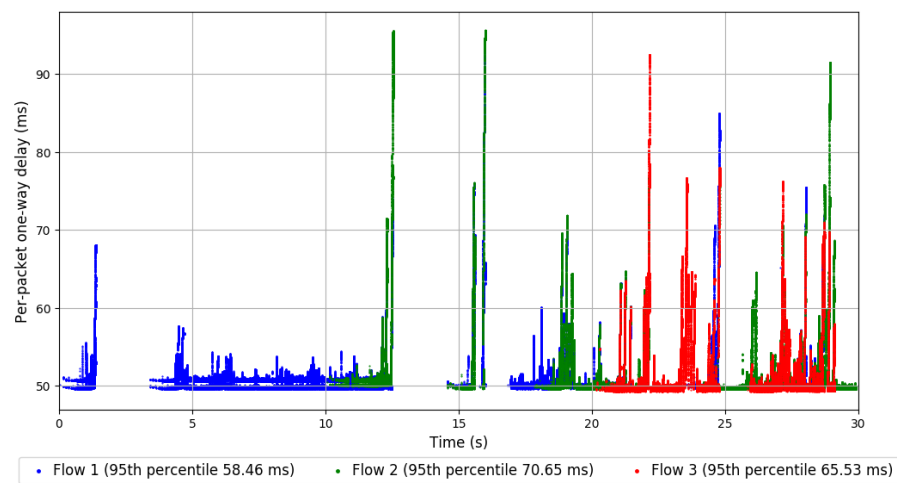
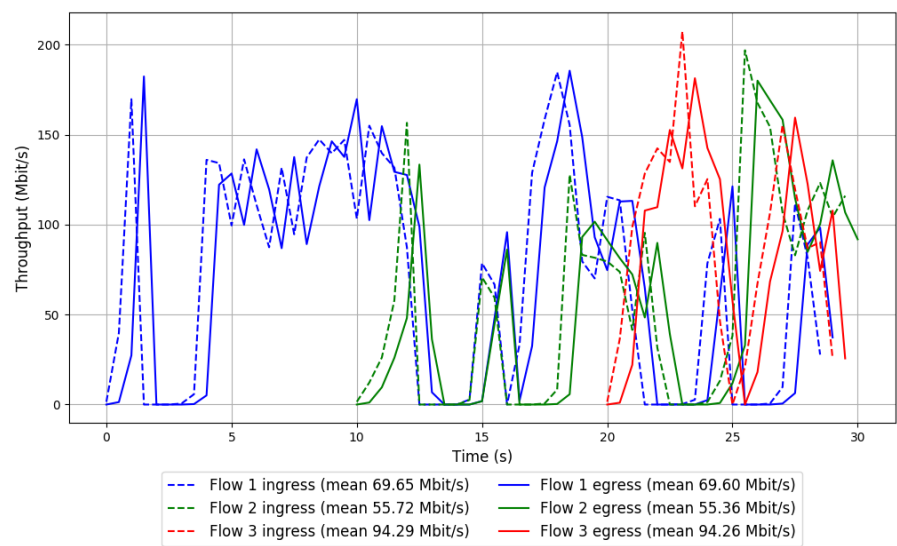


Run 6: Statistics of Copa

Start at: 2018-06-01 23:56:22
End at: 2018-06-01 23:56:52
Local clock offset: -0.144 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-02 02:10:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 132.20 Mbit/s
95th percentile per-packet one-way delay: 63.998 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 69.60 Mbit/s
95th percentile per-packet one-way delay: 58.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 70.646 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 65.531 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

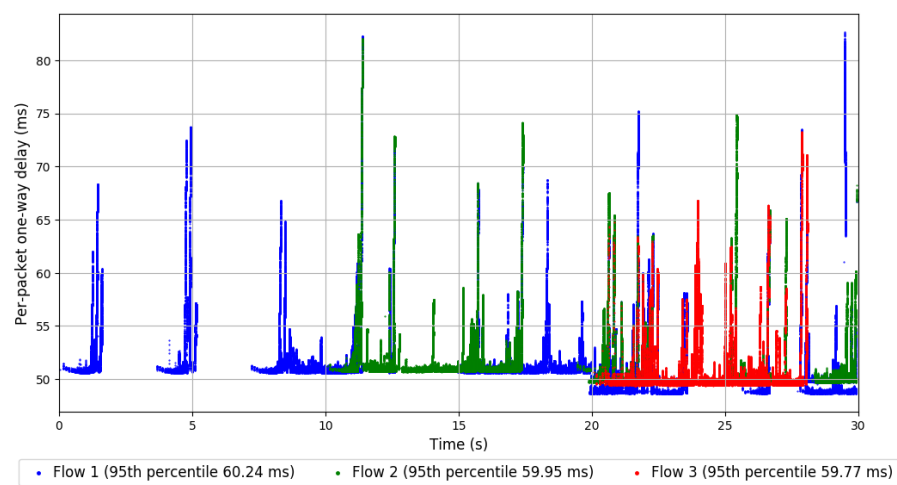
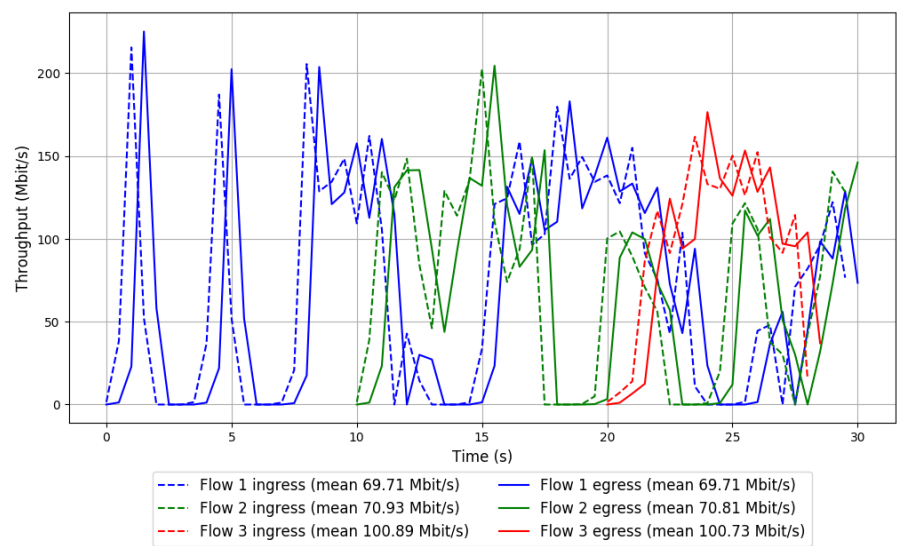


Run 7: Statistics of Copa

Start at: 2018-06-02 00:18:36
End at: 2018-06-02 00:19:06
Local clock offset: -0.115 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-02 02:12:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 143.82 Mbit/s
95th percentile per-packet one-way delay: 60.013 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 69.71 Mbit/s
95th percentile per-packet one-way delay: 60.238 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 70.81 Mbit/s
95th percentile per-packet one-way delay: 59.946 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 100.73 Mbit/s
95th percentile per-packet one-way delay: 59.773 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-02 00:40:43

End at: 2018-06-02 00:41:13

Local clock offset: -0.058 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-02 02:14:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.51 Mbit/s

95th percentile per-packet one-way delay: 60.191 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 122.31 Mbit/s

95th percentile per-packet one-way delay: 57.006 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 64.479 ms

Loss rate: 0.48%

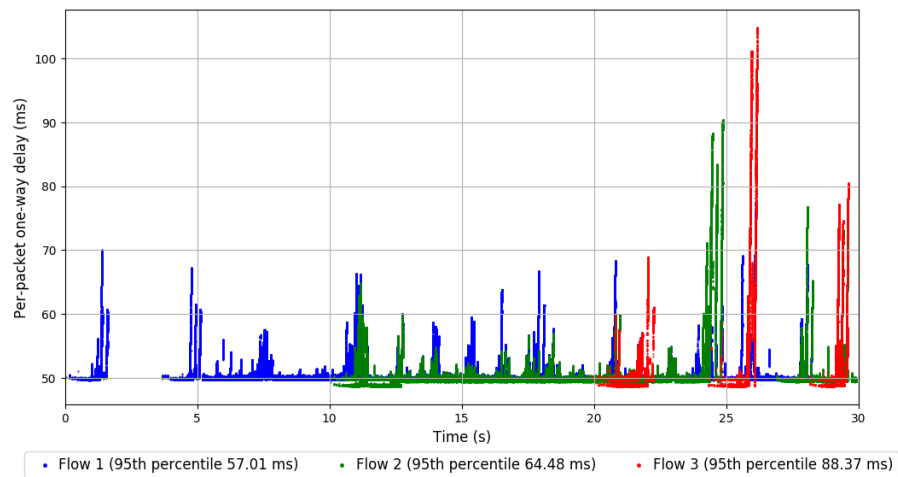
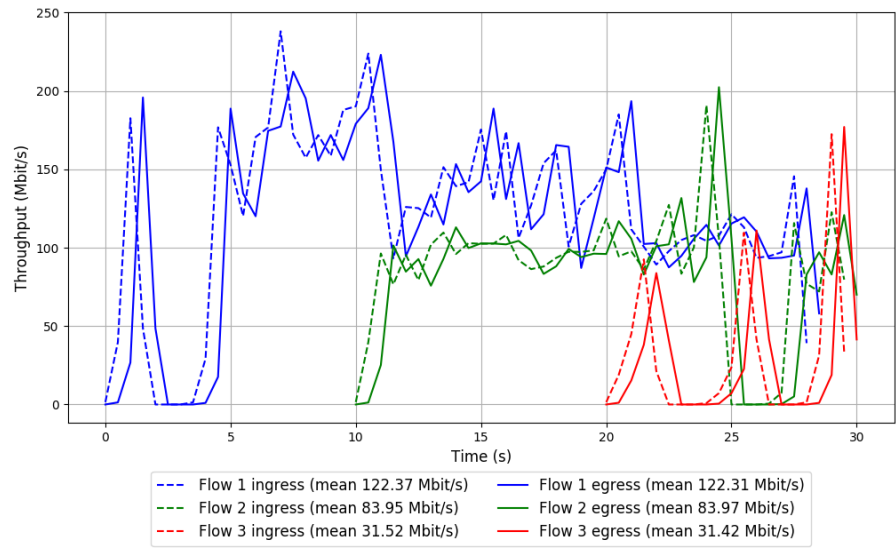
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 88.366 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-02 01:03:10

End at: 2018-06-02 01:03:40

Local clock offset: 0.005 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-06-02 02:14:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.21 Mbit/s

95th percentile per-packet one-way delay: 69.900 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 45.93 Mbit/s

95th percentile per-packet one-way delay: 65.509 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 114.81 Mbit/s

95th percentile per-packet one-way delay: 70.581 ms

Loss rate: 0.21%

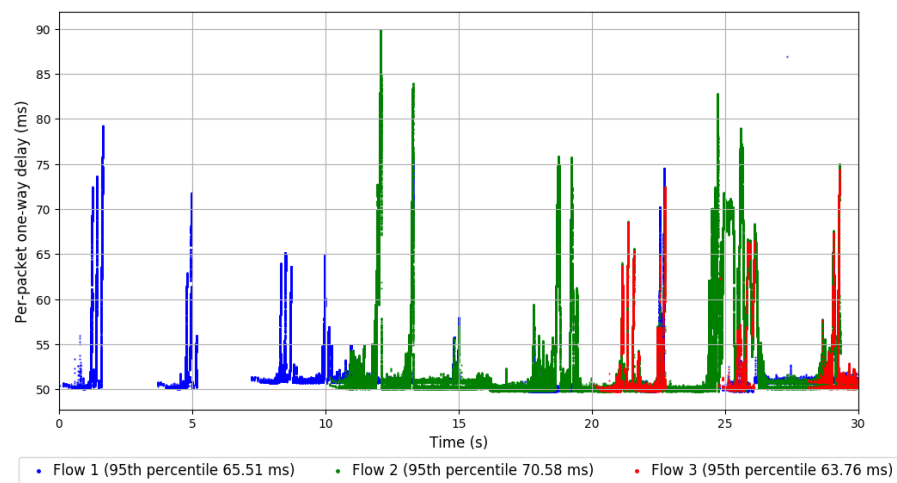
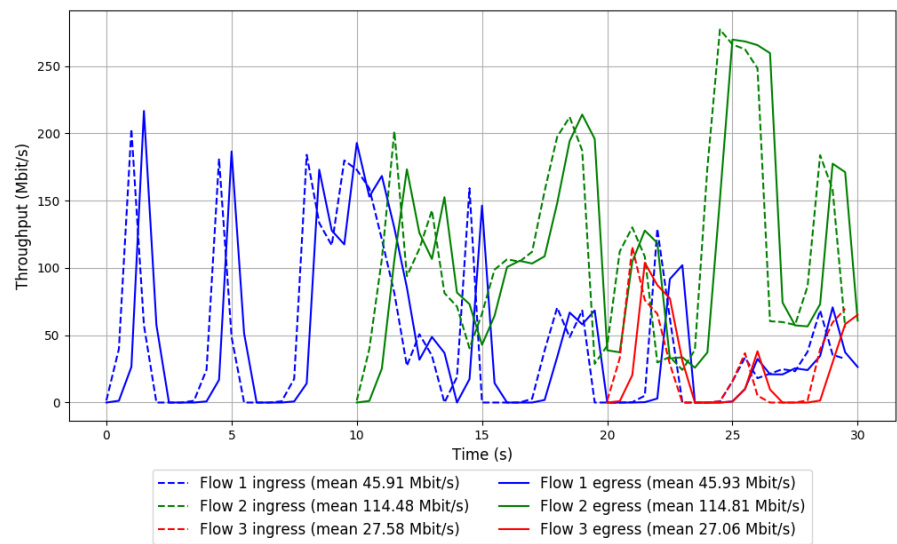
-- Flow 3:

Average throughput: 27.06 Mbit/s

95th percentile per-packet one-way delay: 63.755 ms

Loss rate: 2.85%

Run 9: Report of Copa — Data Link

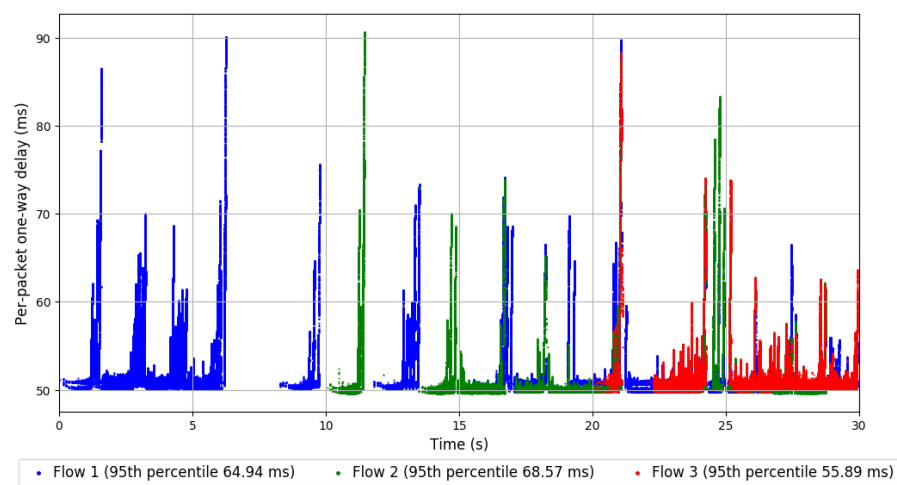
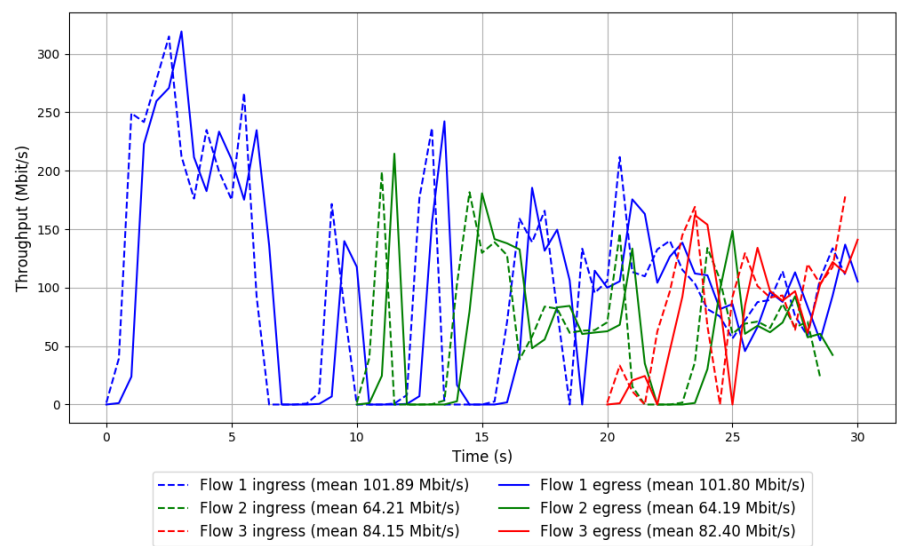


Run 10: Statistics of Copa

Start at: 2018-06-02 01:25:29
End at: 2018-06-02 01:25:59
Local clock offset: -0.073 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-02 02:15:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 169.16 Mbit/s
95th percentile per-packet one-way delay: 65.082 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 101.80 Mbit/s
95th percentile per-packet one-way delay: 64.941 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 68.566 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.40 Mbit/s
95th percentile per-packet one-way delay: 55.888 ms
Loss rate: 2.98%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-01 22:08:40

End at: 2018-06-01 22:09:10

Local clock offset: 0.252 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-02 02:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.25 Mbit/s

95th percentile per-packet one-way delay: 76.720 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 182.29 Mbit/s

95th percentile per-packet one-way delay: 76.621 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 179.37 Mbit/s

95th percentile per-packet one-way delay: 76.864 ms

Loss rate: 0.32%

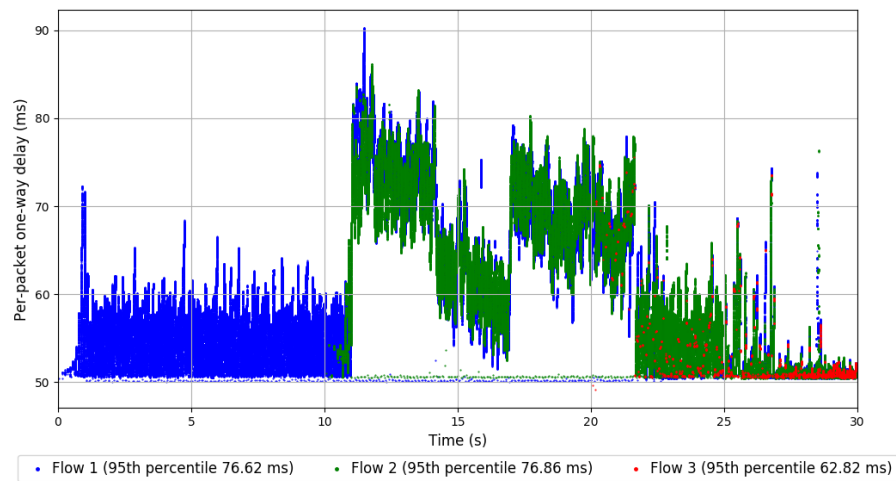
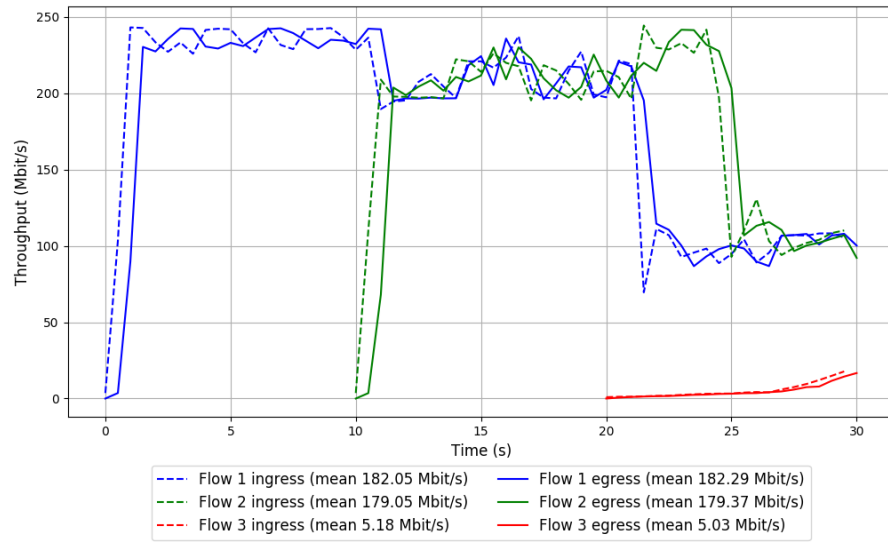
-- Flow 3:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 62.816 ms

Loss rate: 3.91%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-01 22:31:09

End at: 2018-06-01 22:31:39

Local clock offset: -0.152 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-02 02:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.80 Mbit/s

95th percentile per-packet one-way delay: 61.106 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 213.22 Mbit/s

95th percentile per-packet one-way delay: 61.047 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 62.395 ms

Loss rate: 2.32%

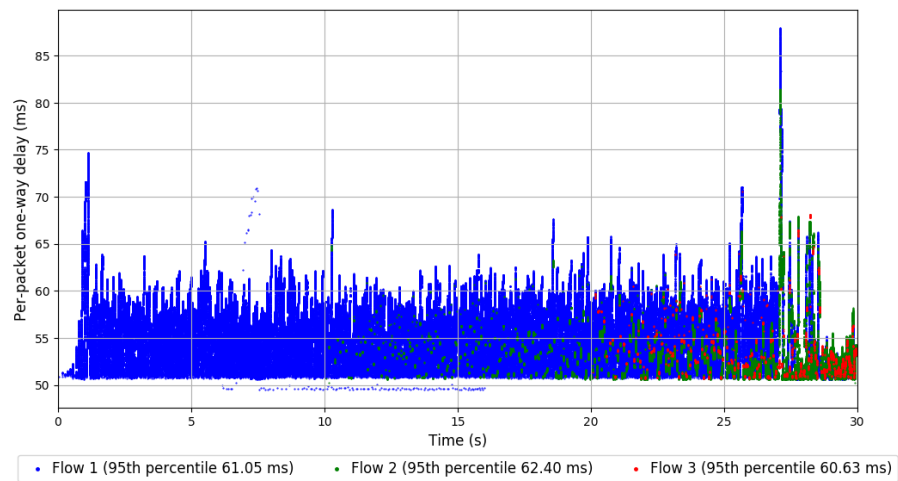
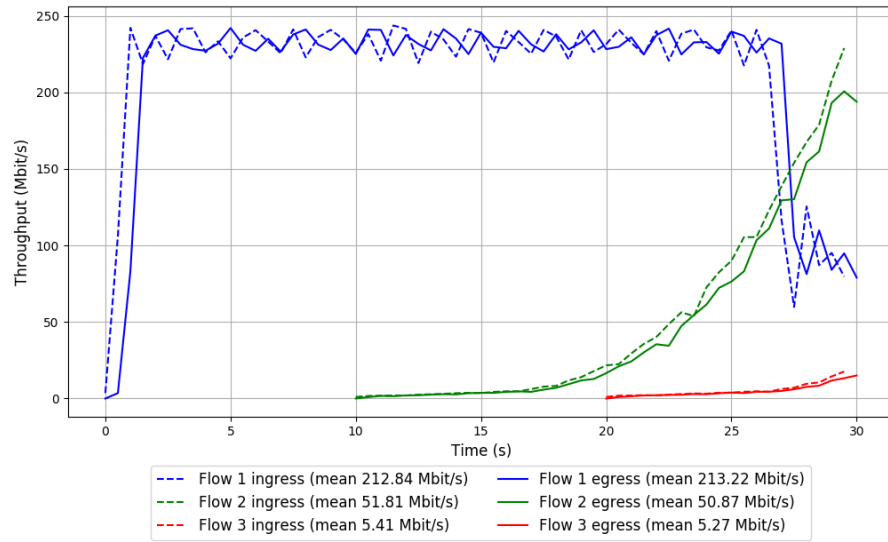
-- Flow 3:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 60.635 ms

Loss rate: 3.60%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-01 22:53:34

End at: 2018-06-01 22:54:04

Local clock offset: -0.077 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-02 02:15:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.76 Mbit/s

95th percentile per-packet one-way delay: 64.840 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 227.07 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 73.600 ms

Loss rate: 2.42%

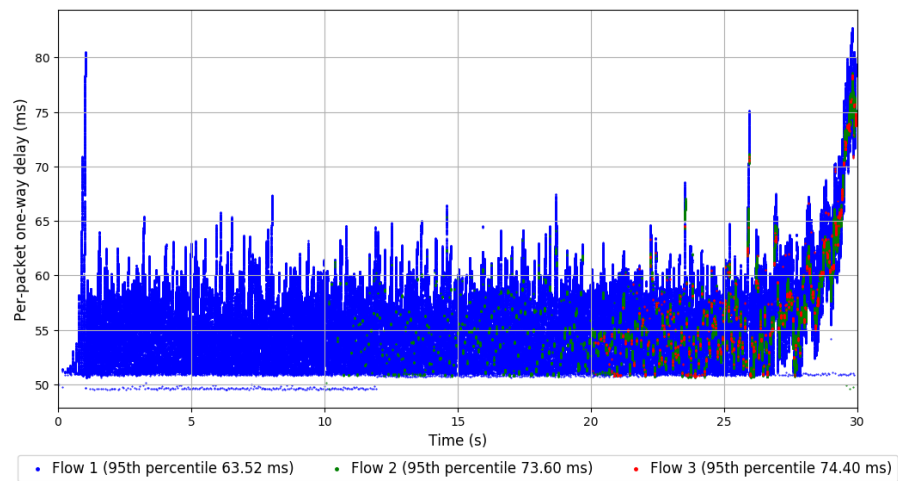
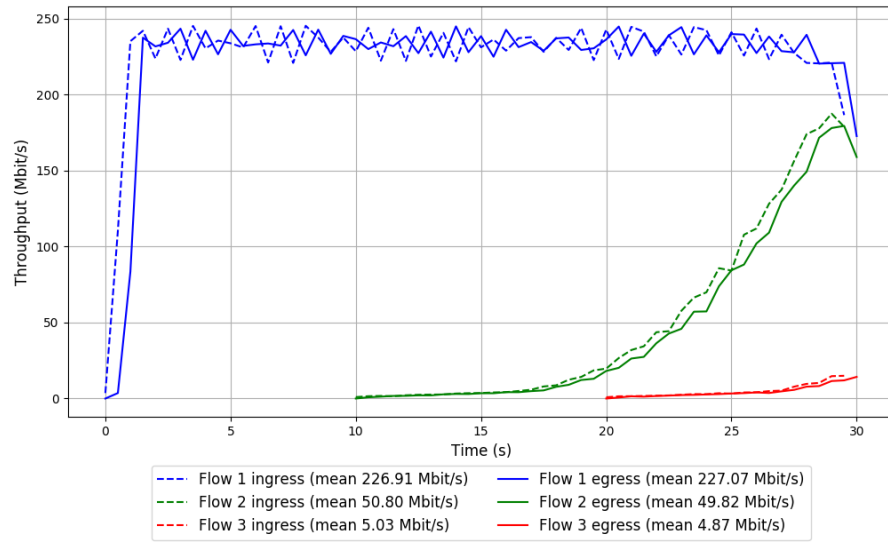
-- Flow 3:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 74.399 ms

Loss rate: 4.16%

Run 3: Report of TCP Cubic — Data Link

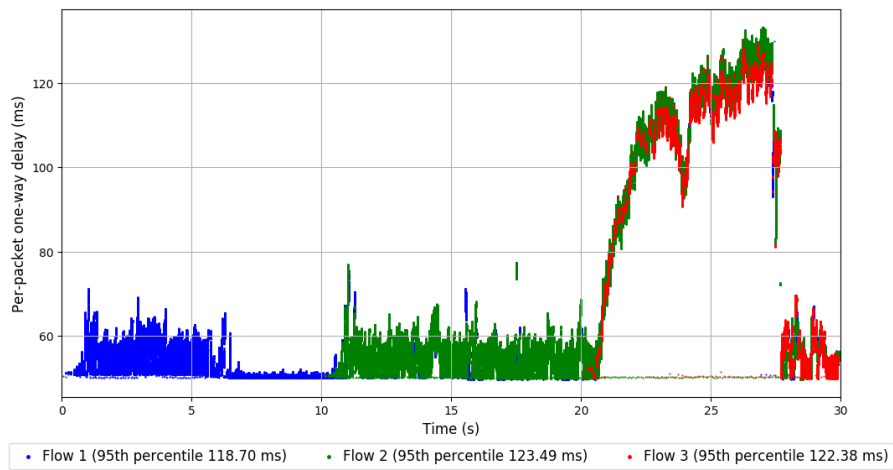
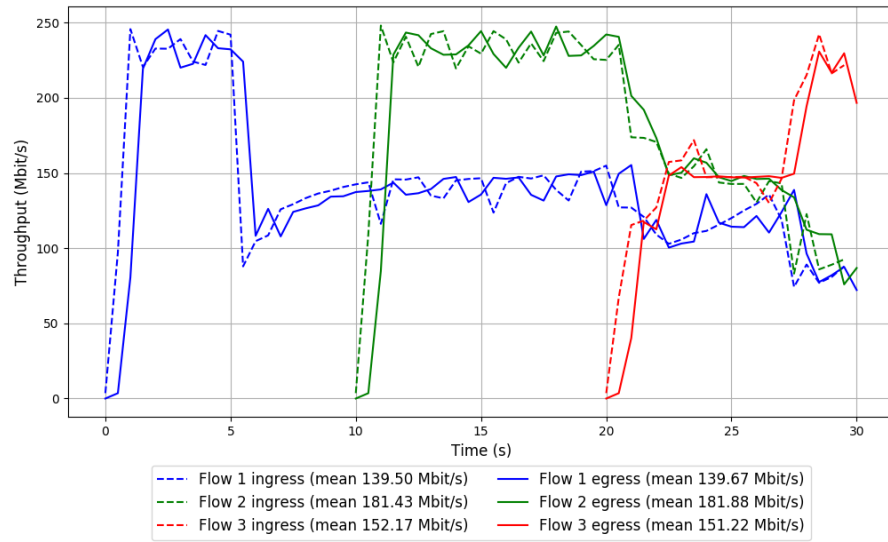


Run 4: Statistics of TCP Cubic

Start at: 2018-06-01 23:15:50
End at: 2018-06-01 23:16:20
Local clock offset: -0.098 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-06-02 02:17:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.27 Mbit/s
95th percentile per-packet one-way delay: 121.837 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 139.67 Mbit/s
95th percentile per-packet one-way delay: 118.704 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 181.88 Mbit/s
95th percentile per-packet one-way delay: 123.487 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 151.22 Mbit/s
95th percentile per-packet one-way delay: 122.375 ms
Loss rate: 1.63%

Run 4: Report of TCP Cubic — Data Link

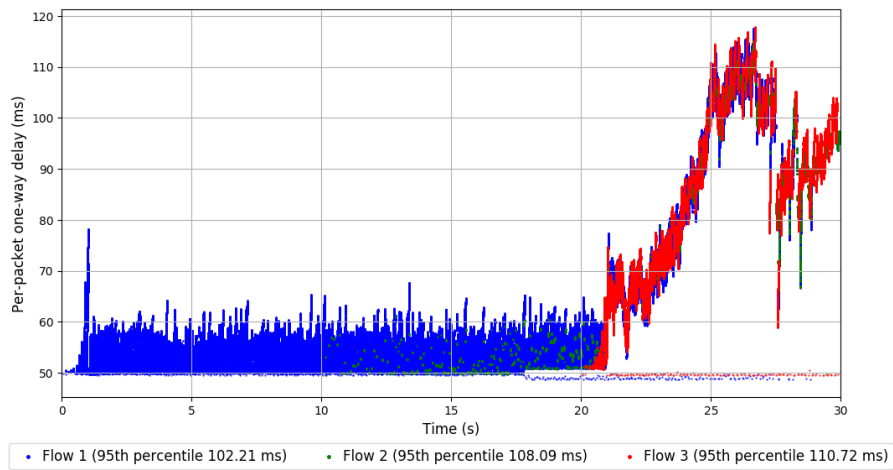
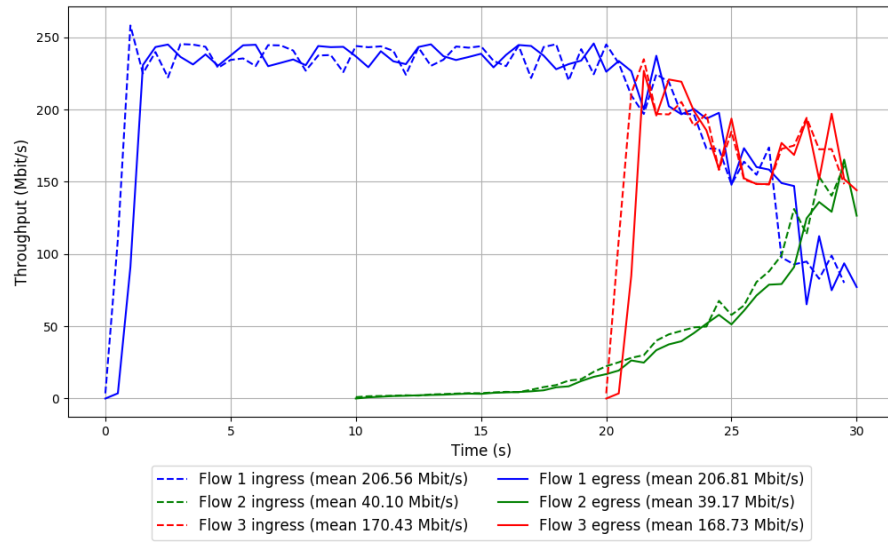


Run 5: Statistics of TCP Cubic

Start at: 2018-06-01 23:37:58
End at: 2018-06-01 23:38:28
Local clock offset: -0.106 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-02 02:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 288.19 Mbit/s
95th percentile per-packet one-way delay: 106.652 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 206.81 Mbit/s
95th percentile per-packet one-way delay: 102.214 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 108.088 ms
Loss rate: 2.80%
-- Flow 3:
Average throughput: 168.73 Mbit/s
95th percentile per-packet one-way delay: 110.725 ms
Loss rate: 1.47%

Run 5: Report of TCP Cubic — Data Link

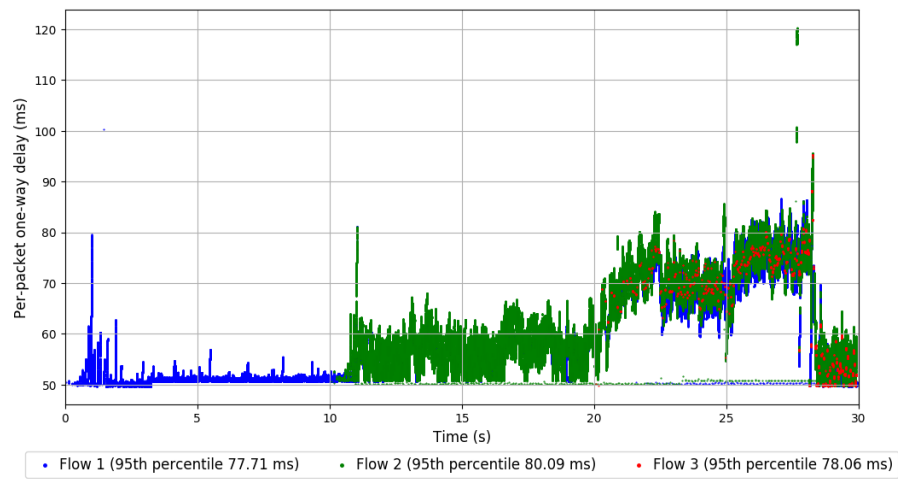
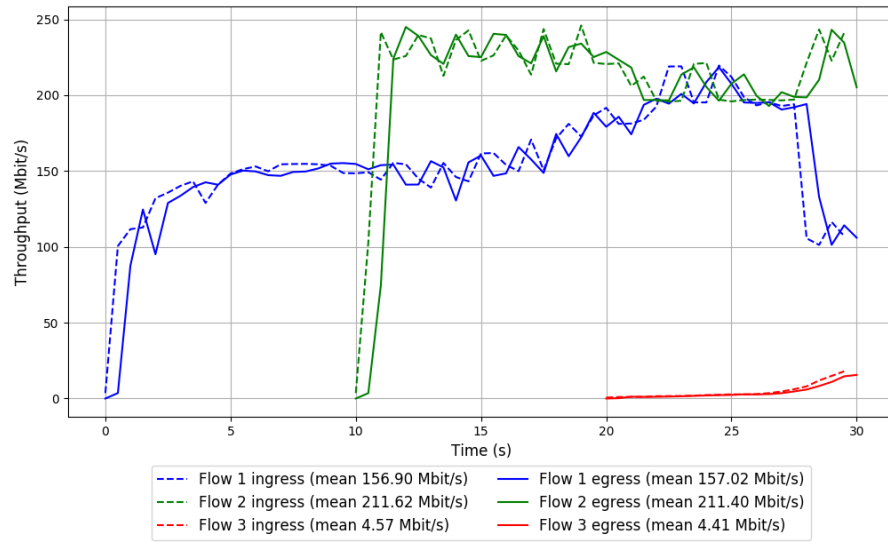


Run 6: Statistics of TCP Cubic

Start at: 2018-06-02 00:00:12
End at: 2018-06-02 00:00:42
Local clock offset: -0.143 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-02 02:18:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 298.98 Mbit/s
95th percentile per-packet one-way delay: 78.994 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 157.02 Mbit/s
95th percentile per-packet one-way delay: 77.706 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 211.40 Mbit/s
95th percentile per-packet one-way delay: 80.088 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 78.065 ms
Loss rate: 4.54%

Run 6: Report of TCP Cubic — Data Link

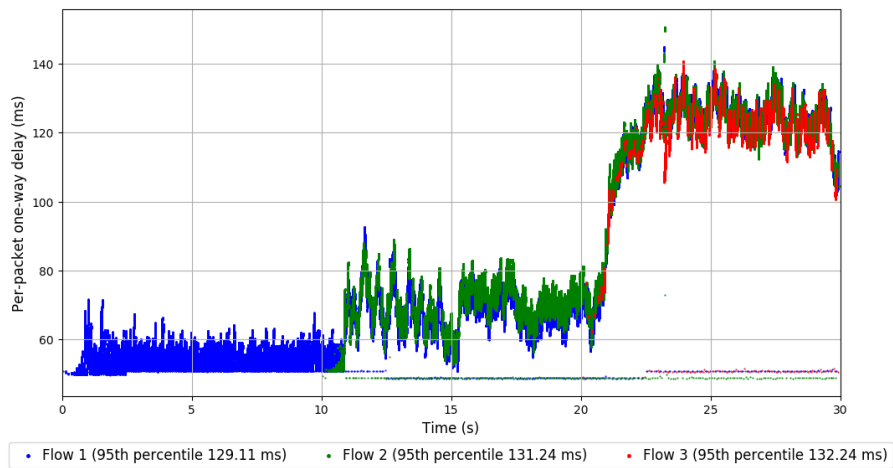
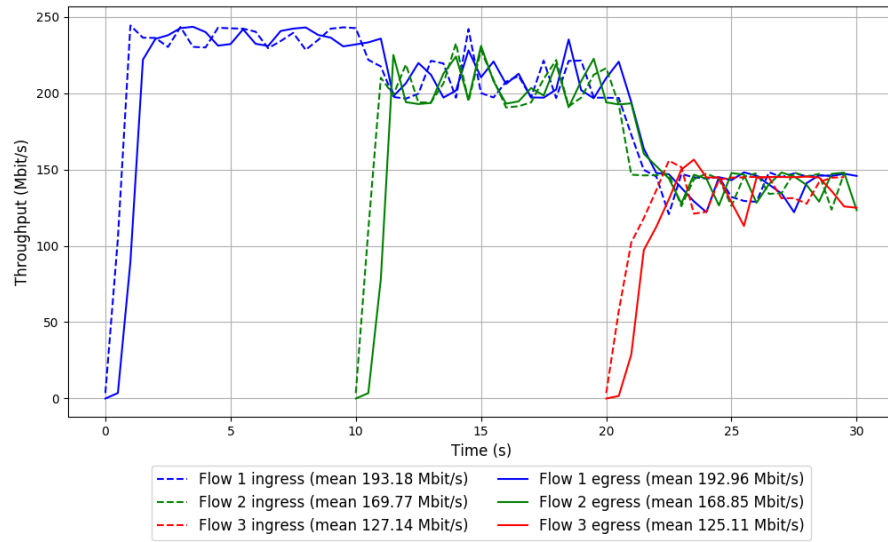


Run 7: Statistics of TCP Cubic

Start at: 2018-06-02 00:22:23
End at: 2018-06-02 00:22:53
Local clock offset: -0.139 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-02 02:20:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.49 Mbit/s
95th percentile per-packet one-way delay: 130.373 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 192.96 Mbit/s
95th percentile per-packet one-way delay: 129.110 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 168.85 Mbit/s
95th percentile per-packet one-way delay: 131.238 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 125.11 Mbit/s
95th percentile per-packet one-way delay: 132.238 ms
Loss rate: 1.90%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-02 00:44:37

End at: 2018-06-02 00:45:07

Local clock offset: -0.067 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-02 02:20:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.40 Mbit/s

95th percentile per-packet one-way delay: 70.184 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 161.37 Mbit/s

95th percentile per-packet one-way delay: 68.991 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 217.38 Mbit/s

95th percentile per-packet one-way delay: 71.183 ms

Loss rate: 0.60%

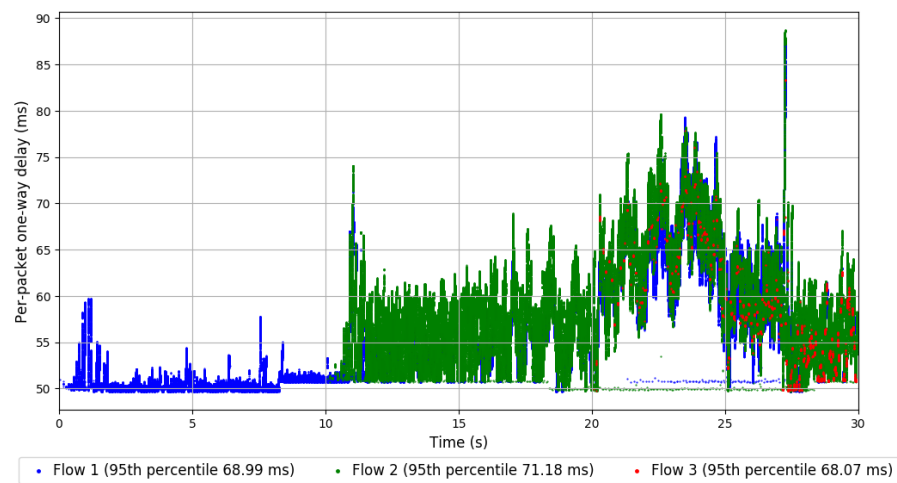
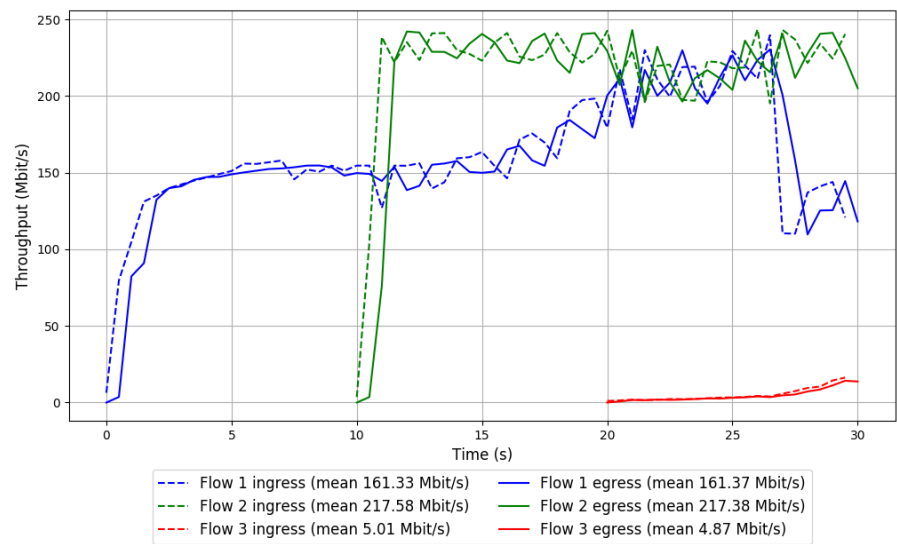
-- Flow 3:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 68.069 ms

Loss rate: 3.88%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-02 01:07:00

End at: 2018-06-02 01:07:30

Local clock offset: -0.03 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-06-02 02:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.69 Mbit/s

95th percentile per-packet one-way delay: 112.173 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 131.56 Mbit/s

95th percentile per-packet one-way delay: 109.635 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 165.81 Mbit/s

95th percentile per-packet one-way delay: 112.681 ms

Loss rate: 0.32%

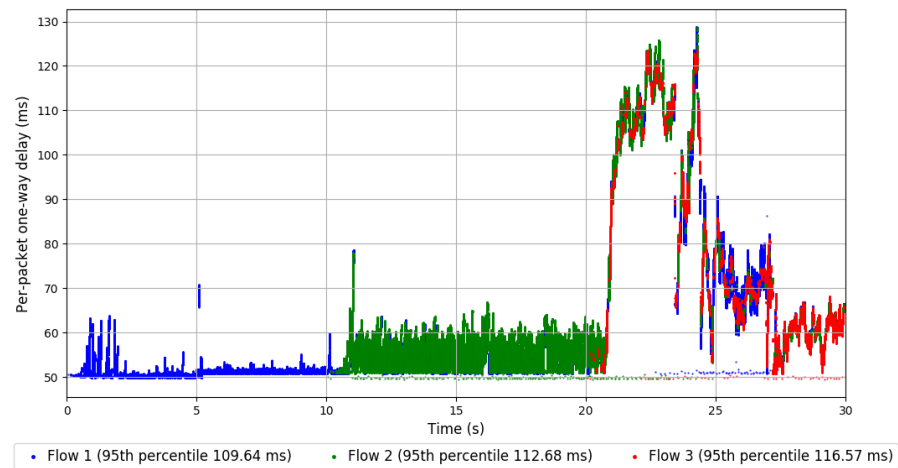
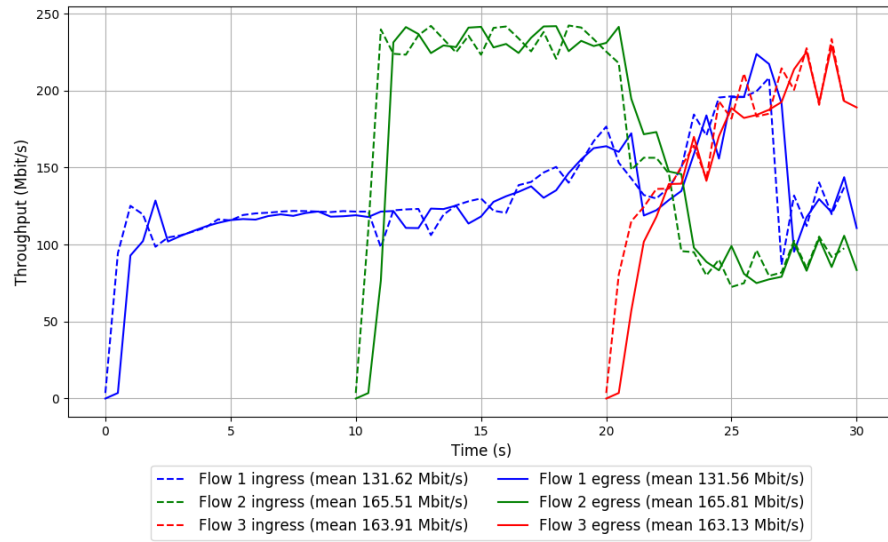
-- Flow 3:

Average throughput: 163.13 Mbit/s

95th percentile per-packet one-way delay: 116.571 ms

Loss rate: 1.46%

Run 9: Report of TCP Cubic — Data Link

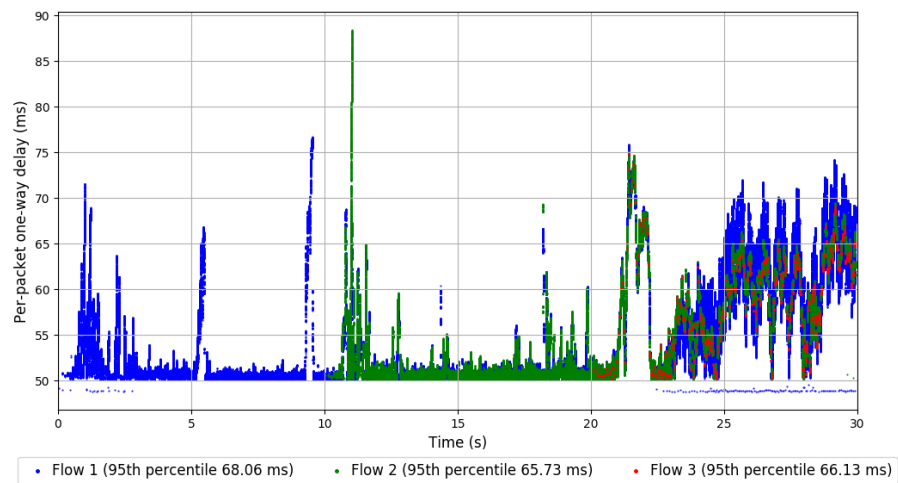
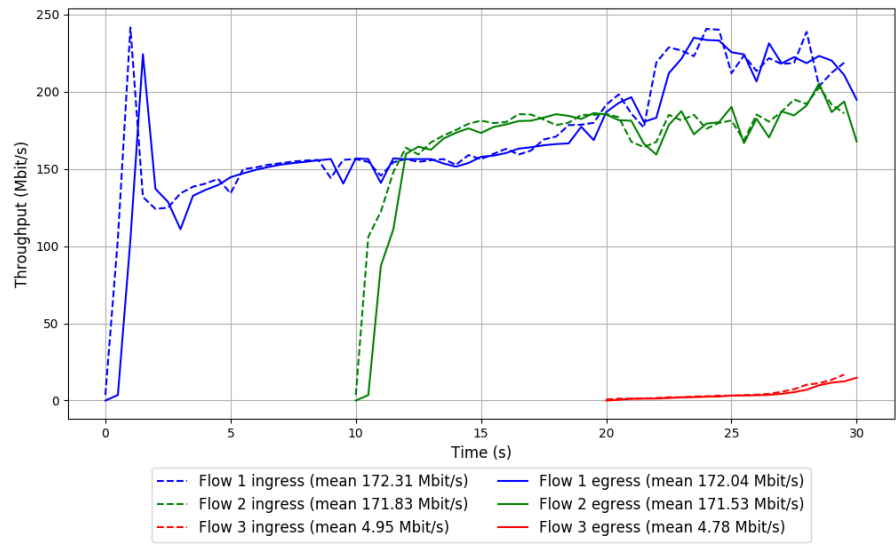


Run 10: Statistics of TCP Cubic

Start at: 2018-06-02 01:29:22
End at: 2018-06-02 01:29:52
Local clock offset: -0.081 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-02 02:21:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.67 Mbit/s
95th percentile per-packet one-way delay: 67.265 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 172.04 Mbit/s
95th percentile per-packet one-way delay: 68.065 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 171.53 Mbit/s
95th percentile per-packet one-way delay: 65.735 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 66.127 ms
Loss rate: 4.37%

Run 10: Report of TCP Cubic — Data Link

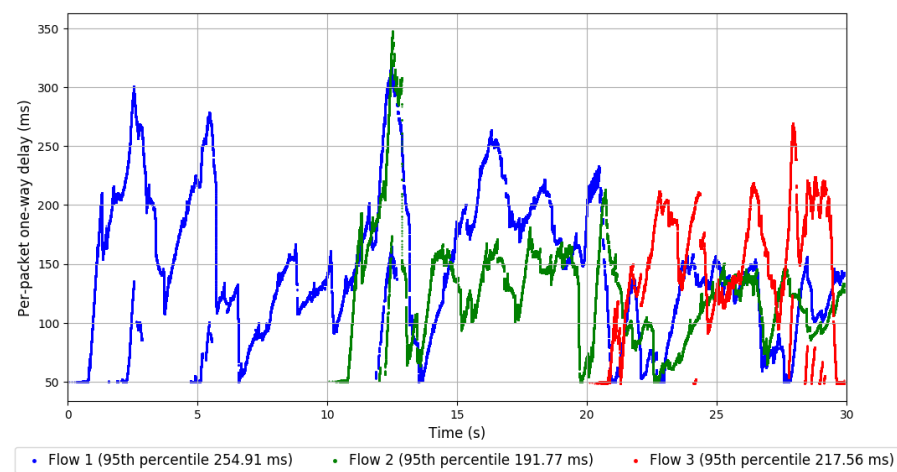
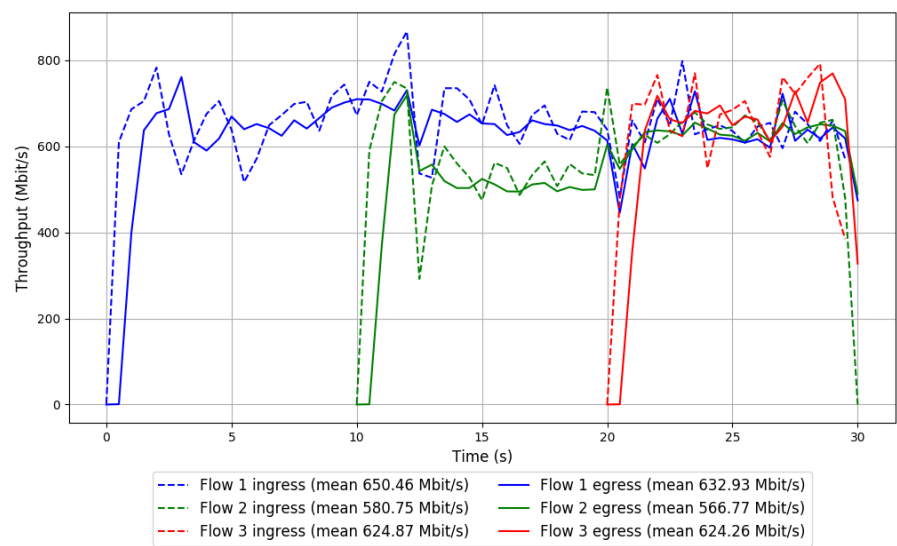


Run 1: Statistics of FillP

Start at: 2018-06-01 21:59:53
End at: 2018-06-01 22:00:23
Local clock offset: -0.154 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-02 02:43:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 1214.61 Mbit/s
95th percentile per-packet one-way delay: 241.638 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 632.93 Mbit/s
95th percentile per-packet one-way delay: 254.910 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 566.77 Mbit/s
95th percentile per-packet one-way delay: 191.770 ms
Loss rate: 3.57%
-- Flow 3:
Average throughput: 624.26 Mbit/s
95th percentile per-packet one-way delay: 217.555 ms
Loss rate: 1.09%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-01 22:22:16

End at: 2018-06-01 22:22:46

Local clock offset: -0.518 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-02 02:44:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 1184.41 Mbit/s

95th percentile per-packet one-way delay: 251.744 ms

Loss rate: 4.02%

-- Flow 1:

Average throughput: 596.83 Mbit/s

95th percentile per-packet one-way delay: 253.823 ms

Loss rate: 2.38%

-- Flow 2:

Average throughput: 621.32 Mbit/s

95th percentile per-packet one-way delay: 262.080 ms

Loss rate: 4.63%

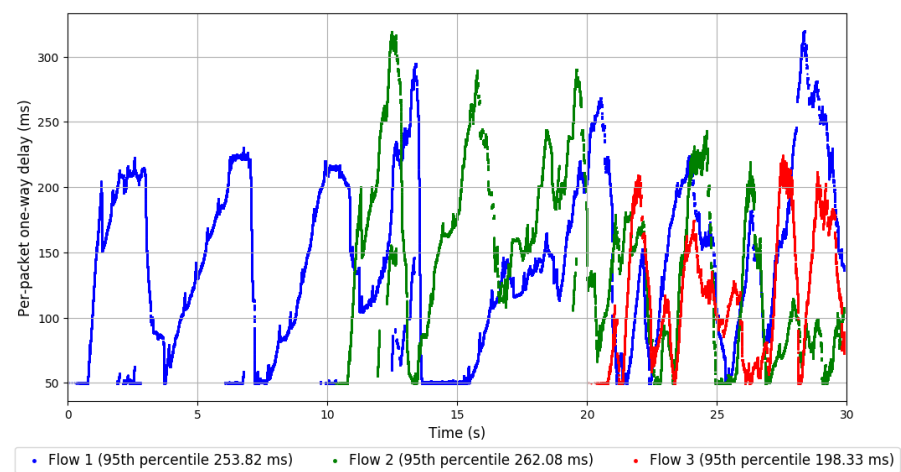
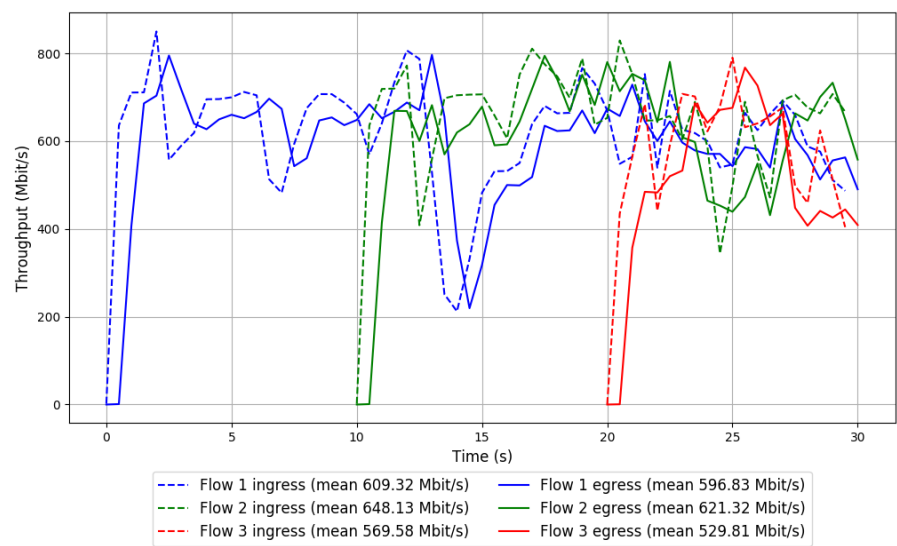
-- Flow 3:

Average throughput: 529.81 Mbit/s

95th percentile per-packet one-way delay: 198.330 ms

Loss rate: 7.94%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-01 22:44:44

End at: 2018-06-01 22:45:14

Local clock offset: -0.548 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-02 02:46:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1207.88 Mbit/s

95th percentile per-packet one-way delay: 276.845 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 644.50 Mbit/s

95th percentile per-packet one-way delay: 281.916 ms

Loss rate: 3.32%

-- Flow 2:

Average throughput: 578.86 Mbit/s

95th percentile per-packet one-way delay: 272.207 ms

Loss rate: 3.04%

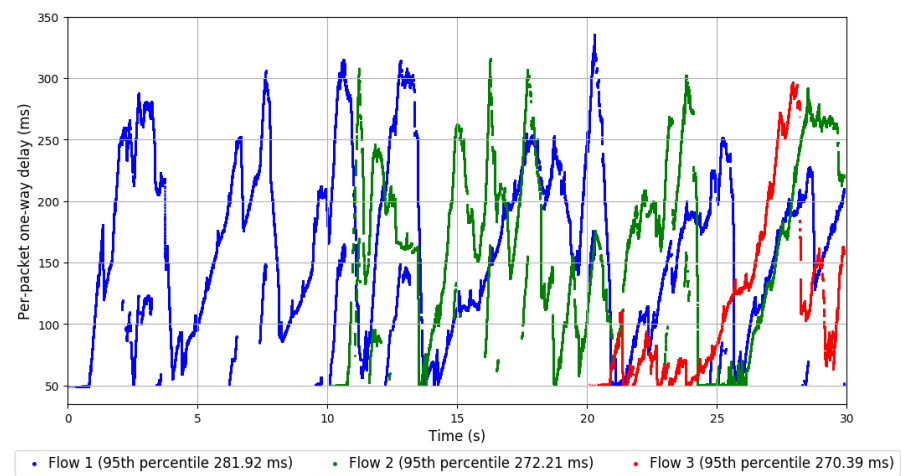
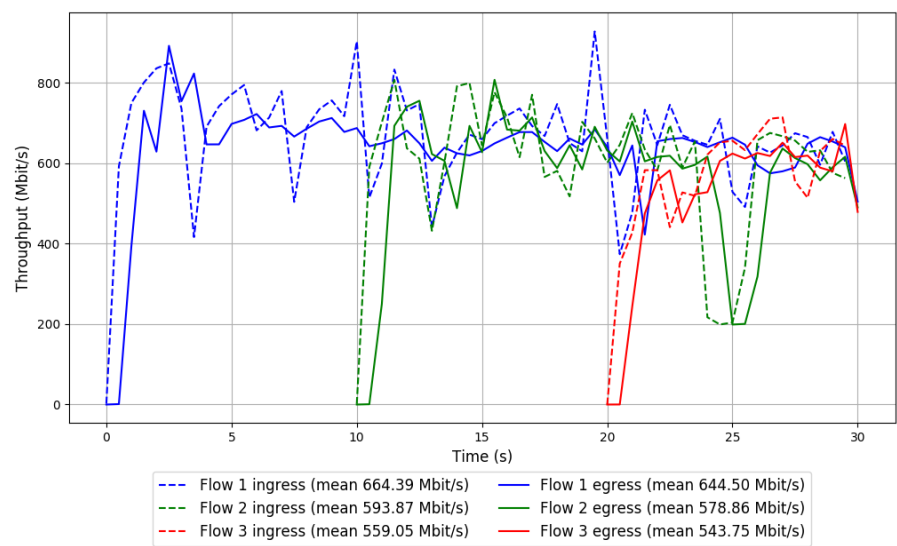
-- Flow 3:

Average throughput: 543.75 Mbit/s

95th percentile per-packet one-way delay: 270.392 ms

Loss rate: 3.74%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-01 23:07:07

End at: 2018-06-01 23:07:37

Local clock offset: -0.085 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-02 02:46:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1012.02 Mbit/s

95th percentile per-packet one-way delay: 318.224 ms

Loss rate: 7.11%

-- Flow 1:

Average throughput: 499.85 Mbit/s

95th percentile per-packet one-way delay: 321.576 ms

Loss rate: 5.08%

-- Flow 2:

Average throughput: 530.04 Mbit/s

95th percentile per-packet one-way delay: 325.470 ms

Loss rate: 9.31%

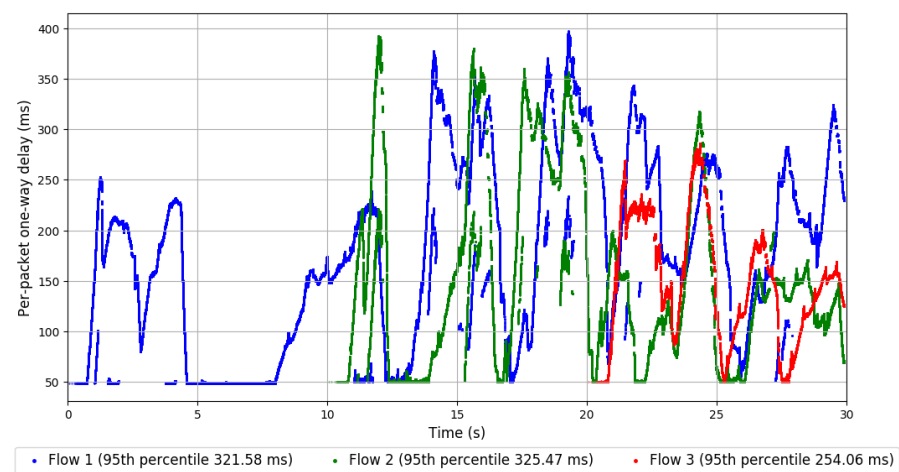
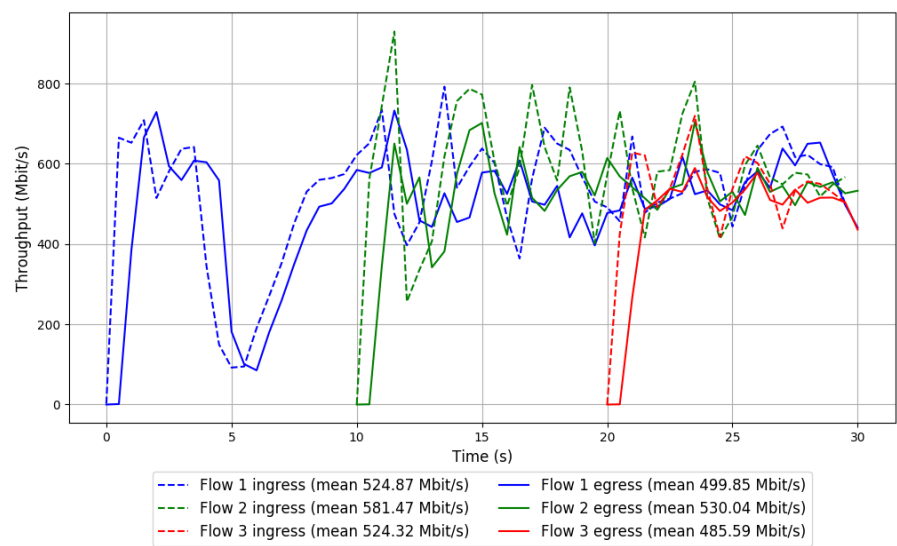
-- Flow 3:

Average throughput: 485.59 Mbit/s

95th percentile per-packet one-way delay: 254.060 ms

Loss rate: 8.33%

Run 4: Report of FillP — Data Link

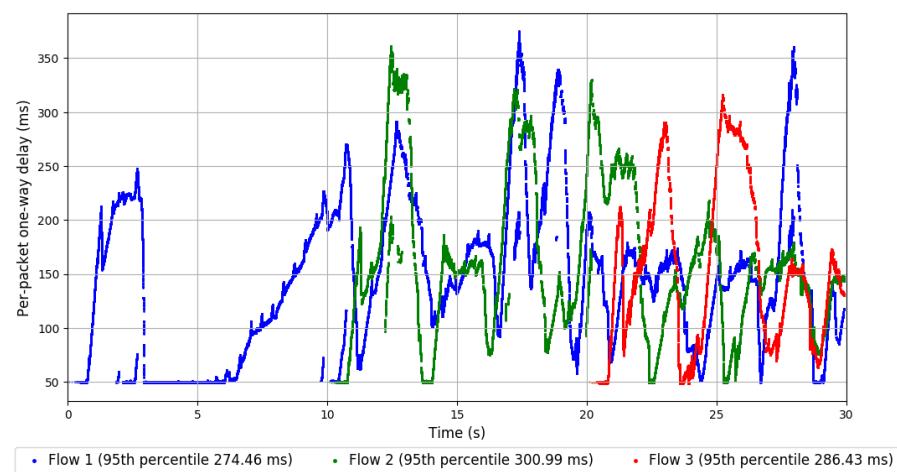
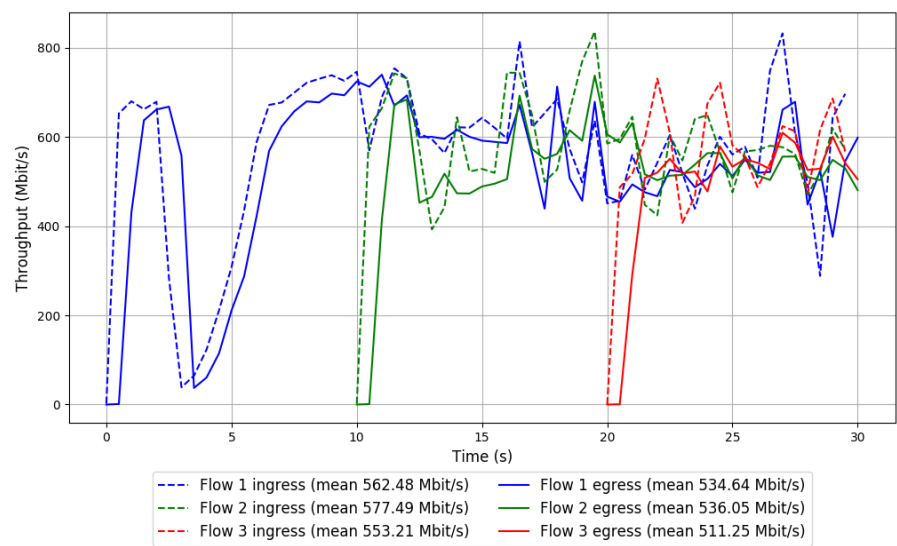


Run 5: Statistics of FillP

Start at: 2018-06-01 23:29:10
End at: 2018-06-01 23:29:40
Local clock offset: -0.114 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-02 02:46:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 1058.88 Mbit/s
95th percentile per-packet one-way delay: 288.656 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 534.64 Mbit/s
95th percentile per-packet one-way delay: 274.461 ms
Loss rate: 5.27%
-- Flow 2:
Average throughput: 536.05 Mbit/s
95th percentile per-packet one-way delay: 300.986 ms
Loss rate: 7.65%
-- Flow 3:
Average throughput: 511.25 Mbit/s
95th percentile per-packet one-way delay: 286.428 ms
Loss rate: 8.56%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-01 23:51:30

End at: 2018-06-01 23:52:00

Local clock offset: -0.504 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-02 02:46:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1062.02 Mbit/s

95th percentile per-packet one-way delay: 297.286 ms

Loss rate: 5.42%

-- Flow 1:

Average throughput: 538.37 Mbit/s

95th percentile per-packet one-way delay: 299.826 ms

Loss rate: 5.84%

-- Flow 2:

Average throughput: 576.14 Mbit/s

95th percentile per-packet one-way delay: 289.239 ms

Loss rate: 4.08%

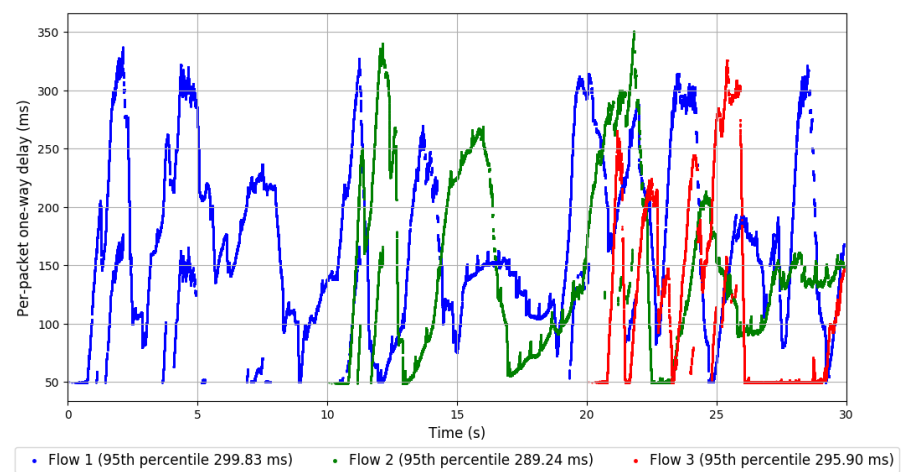
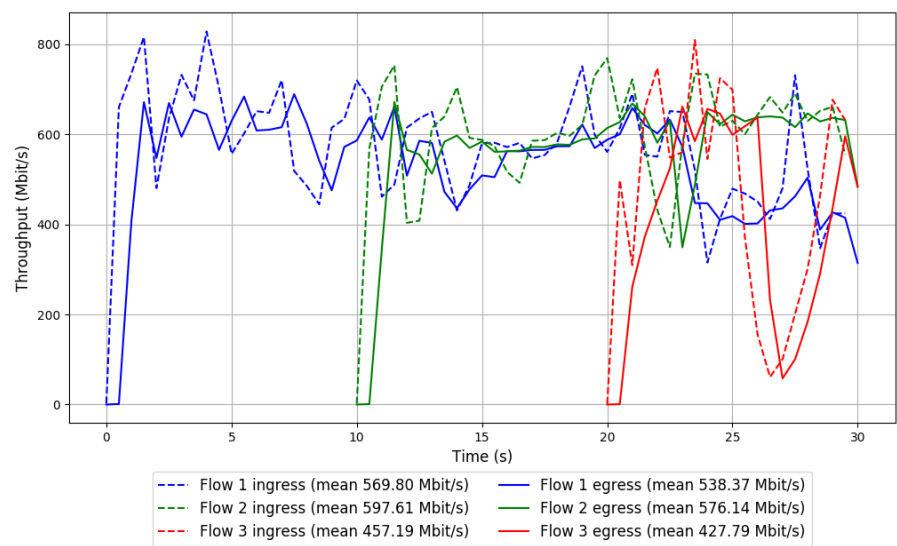
-- Flow 3:

Average throughput: 427.79 Mbit/s

95th percentile per-packet one-way delay: 295.899 ms

Loss rate: 7.39%

Run 6: Report of FillP — Data Link

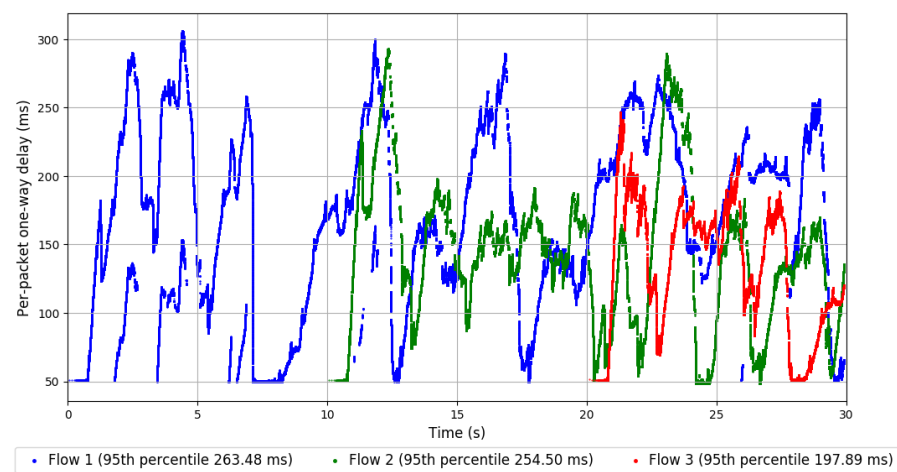
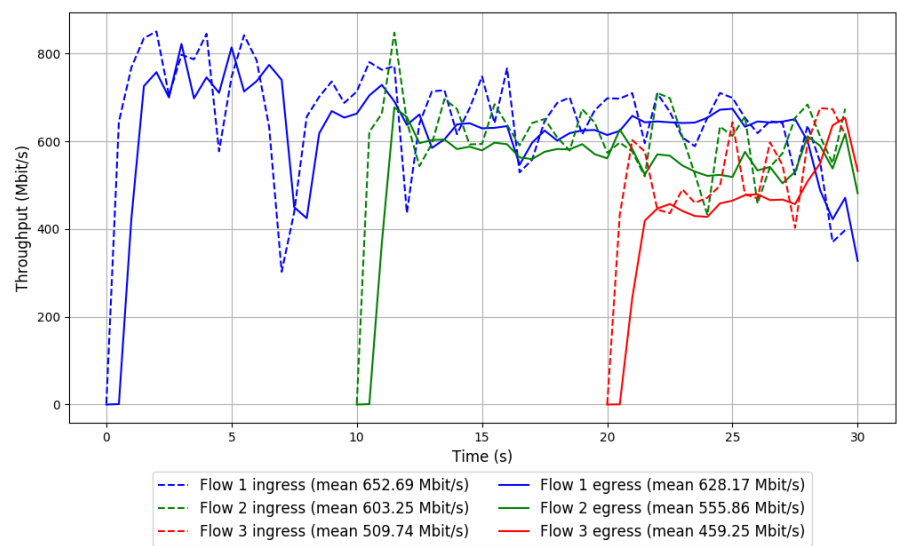


Run 7: Statistics of FillP

Start at: 2018-06-02 00:13:44
End at: 2018-06-02 00:14:14
Local clock offset: -0.167 ms
Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-02 02:48:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1148.73 Mbit/s
95th percentile per-packet one-way delay: 260.065 ms
Loss rate: 6.42%
-- Flow 1:
Average throughput: 628.17 Mbit/s
95th percentile per-packet one-way delay: 263.483 ms
Loss rate: 4.09%
-- Flow 2:
Average throughput: 555.86 Mbit/s
95th percentile per-packet one-way delay: 254.497 ms
Loss rate: 8.34%
-- Flow 3:
Average throughput: 459.25 Mbit/s
95th percentile per-packet one-way delay: 197.891 ms
Loss rate: 10.85%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-02 00:35:52

End at: 2018-06-02 00:36:22

Local clock offset: -0.122 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-02 02:48:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 1063.27 Mbit/s

95th percentile per-packet one-way delay: 304.284 ms

Loss rate: 5.03%

-- Flow 1:

Average throughput: 516.25 Mbit/s

95th percentile per-packet one-way delay: 325.909 ms

Loss rate: 4.69%

-- Flow 2:

Average throughput: 573.68 Mbit/s

95th percentile per-packet one-way delay: 220.525 ms

Loss rate: 4.75%

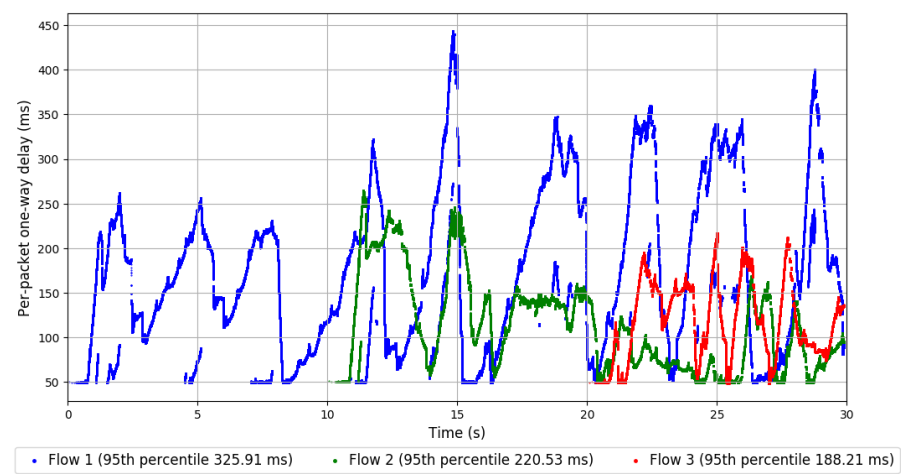
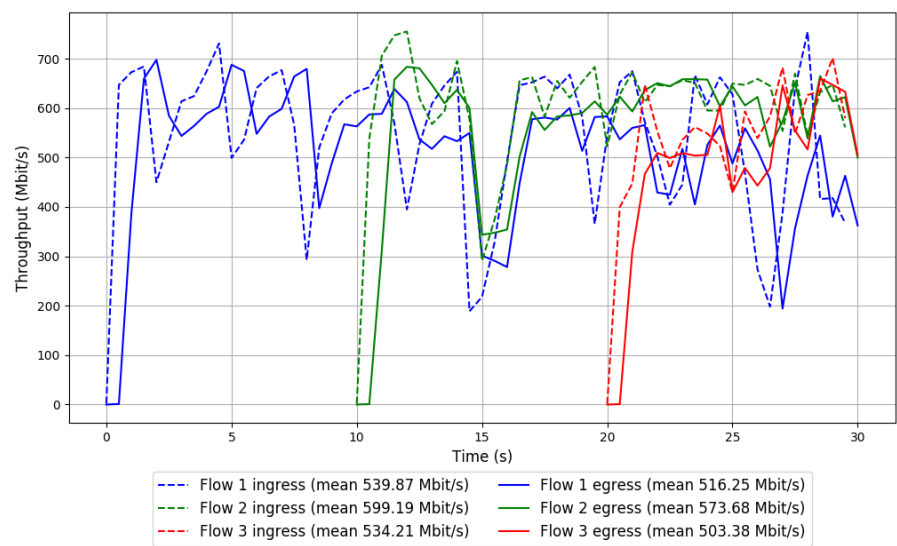
-- Flow 3:

Average throughput: 503.38 Mbit/s

95th percentile per-packet one-way delay: 188.211 ms

Loss rate: 6.72%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-02 00:58:09

End at: 2018-06-02 00:58:39

Local clock offset: -0.055 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-02 03:10:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 1164.39 Mbit/s

95th percentile per-packet one-way delay: 264.445 ms

Loss rate: 3.40%

-- Flow 1:

Average throughput: 632.36 Mbit/s

95th percentile per-packet one-way delay: 225.128 ms

Loss rate: 2.78%

-- Flow 2:

Average throughput: 551.10 Mbit/s

95th percentile per-packet one-way delay: 302.924 ms

Loss rate: 2.46%

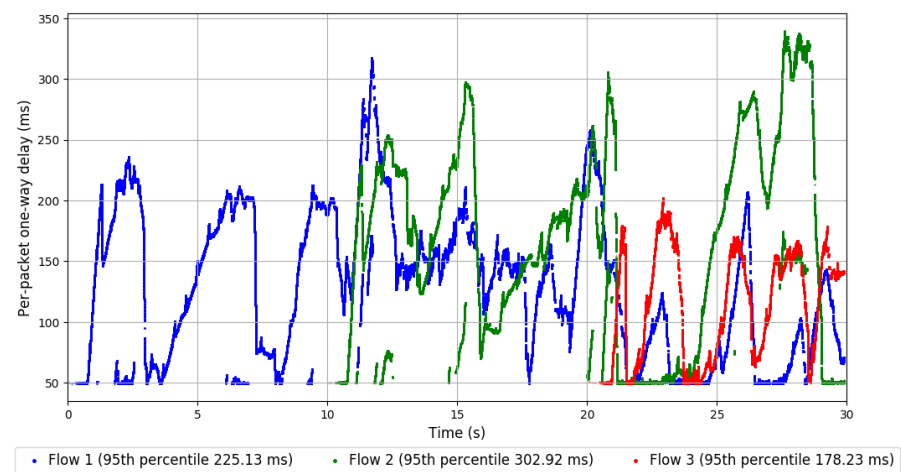
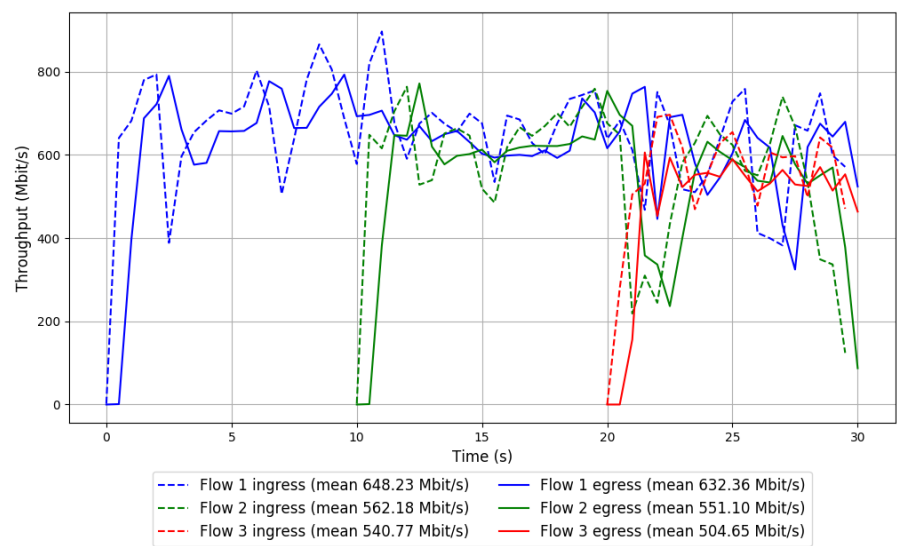
-- Flow 3:

Average throughput: 504.65 Mbit/s

95th percentile per-packet one-way delay: 178.229 ms

Loss rate: 7.64%

Run 9: Report of FillP — Data Link

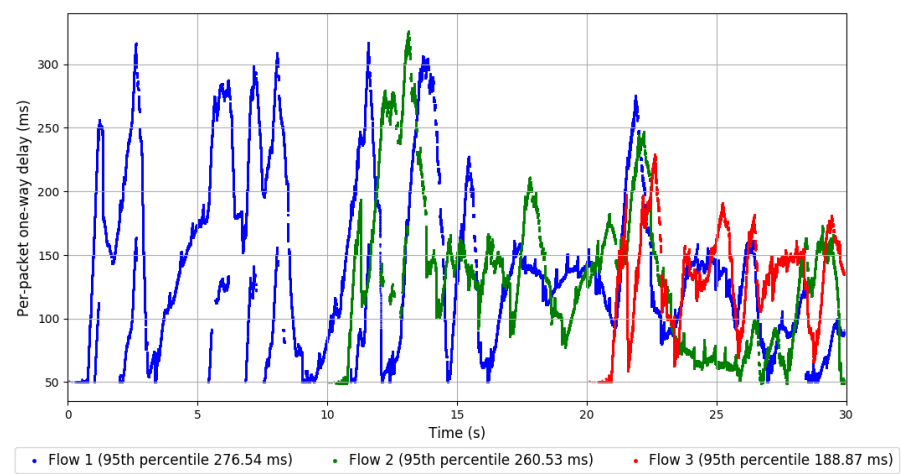
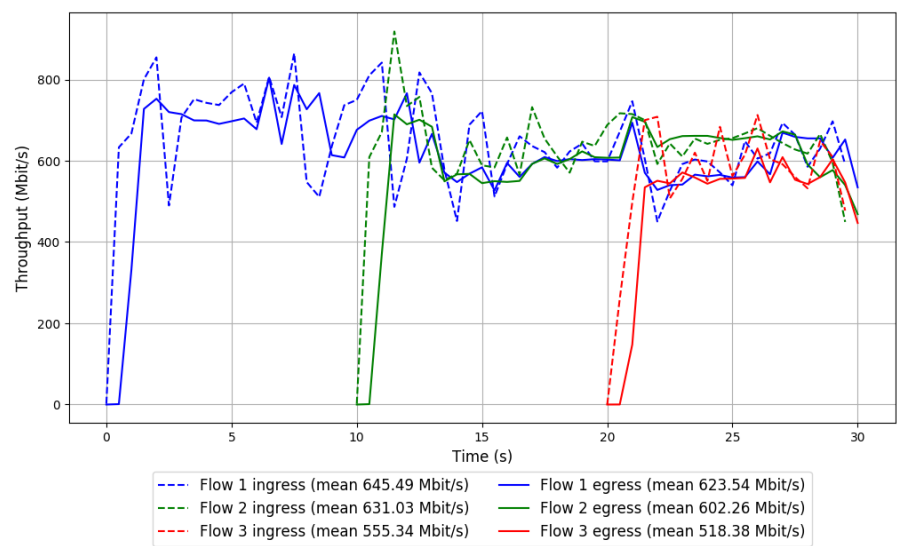


Run 10: Statistics of FillP

Start at: 2018-06-02 01:20:33
End at: 2018-06-02 01:21:03
Local clock offset: -0.504 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 1194.04 Mbit/s
95th percentile per-packet one-way delay: 267.600 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 623.54 Mbit/s
95th percentile per-packet one-way delay: 276.544 ms
Loss rate: 3.72%
-- Flow 2:
Average throughput: 602.26 Mbit/s
95th percentile per-packet one-way delay: 260.529 ms
Loss rate: 5.04%
-- Flow 3:
Average throughput: 518.38 Mbit/s
95th percentile per-packet one-way delay: 188.871 ms
Loss rate: 7.62%

Run 10: Report of FillP — Data Link

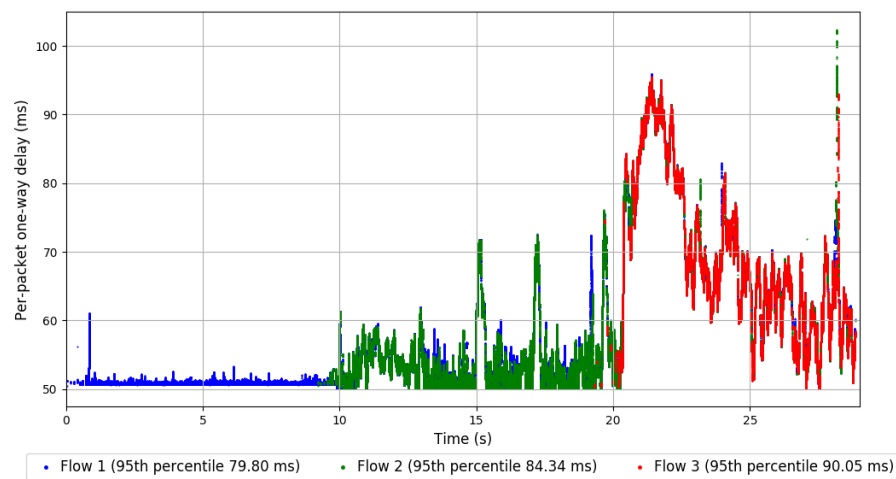
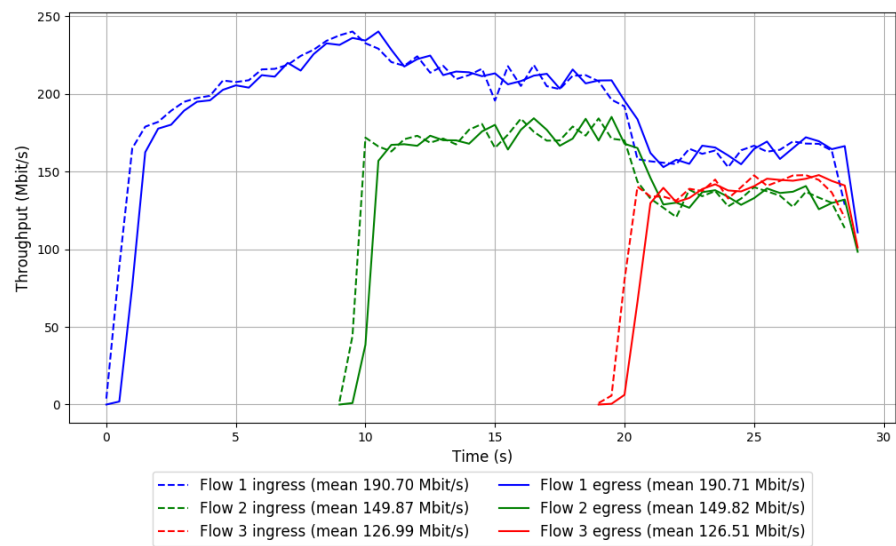


```
Run 1: Statistics of Indigo

Start at: 2018-06-01 22:19:35
End at: 2018-06-01 22:20:05
Local clock offset: -0.119 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-02 03:13:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.86 Mbit/s
95th percentile per-packet one-way delay: 84.143 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 190.71 Mbit/s
95th percentile per-packet one-way delay: 79.798 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 149.82 Mbit/s
95th percentile per-packet one-way delay: 84.339 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 126.51 Mbit/s
95th percentile per-packet one-way delay: 90.047 ms
Loss rate: 1.41%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-01 22:42:04

End at: 2018-06-01 22:42:34

Local clock offset: -0.122 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-02 03:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.74 Mbit/s

95th percentile per-packet one-way delay: 71.521 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 176.85 Mbit/s

95th percentile per-packet one-way delay: 70.546 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 154.86 Mbit/s

95th percentile per-packet one-way delay: 71.778 ms

Loss rate: 0.56%

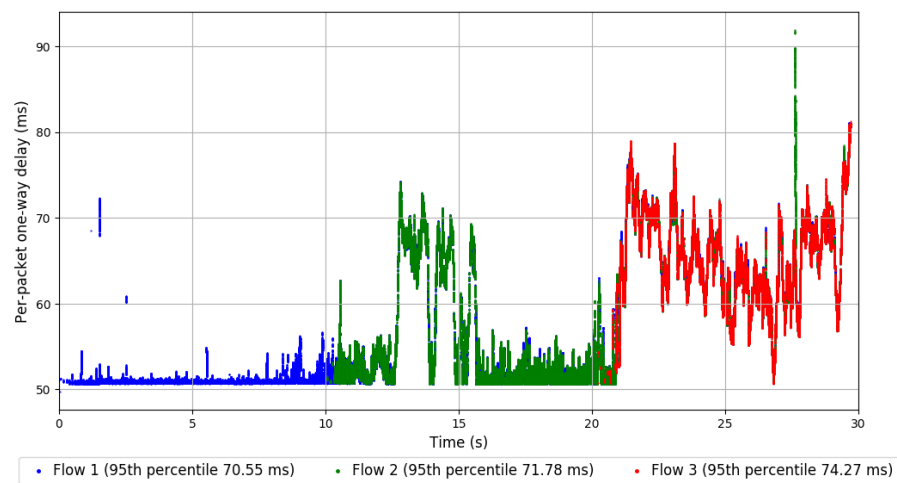
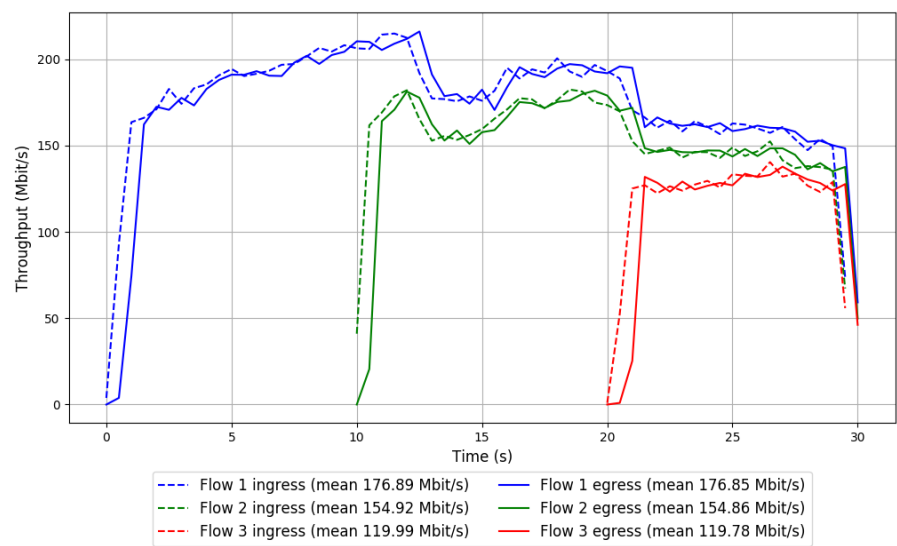
-- Flow 3:

Average throughput: 119.78 Mbit/s

95th percentile per-packet one-way delay: 74.274 ms

Loss rate: 1.21%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-01 23:04:26

End at: 2018-06-01 23:04:56

Local clock offset: -0.147 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-02 03:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.39 Mbit/s

95th percentile per-packet one-way delay: 82.552 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 184.06 Mbit/s

95th percentile per-packet one-way delay: 77.925 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 154.26 Mbit/s

95th percentile per-packet one-way delay: 83.112 ms

Loss rate: 0.40%

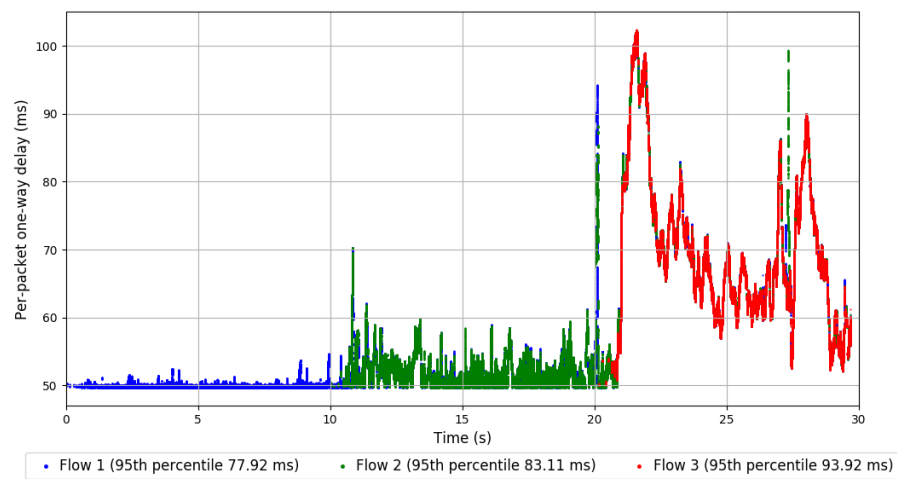
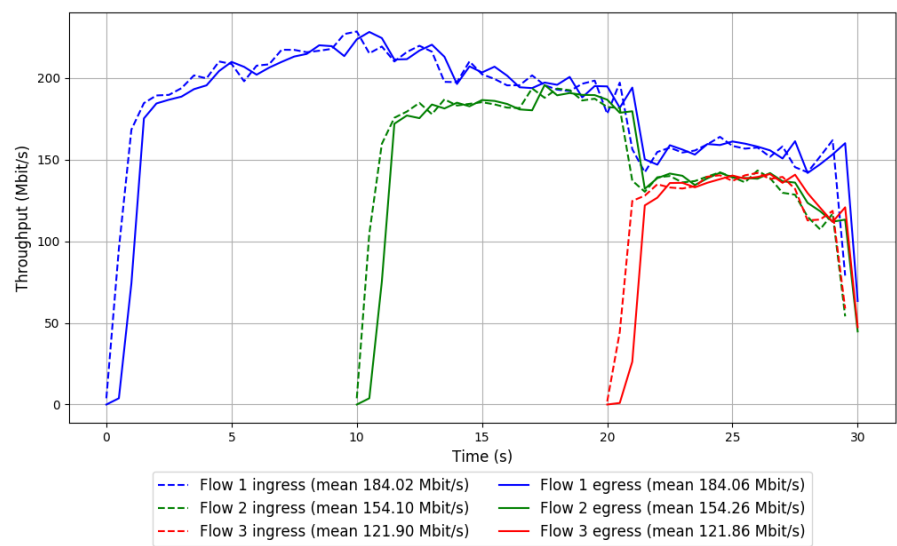
-- Flow 3:

Average throughput: 121.86 Mbit/s

95th percentile per-packet one-way delay: 93.922 ms

Loss rate: 1.07%

Run 3: Report of Indigo — Data Link

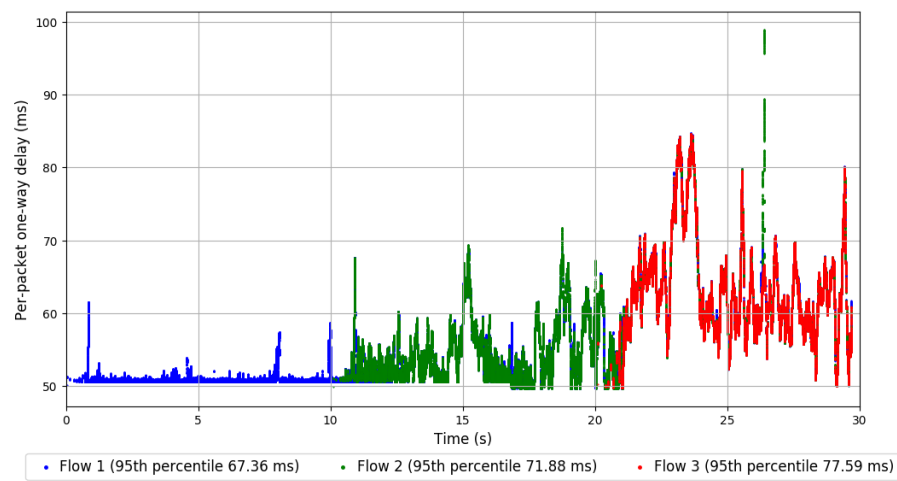
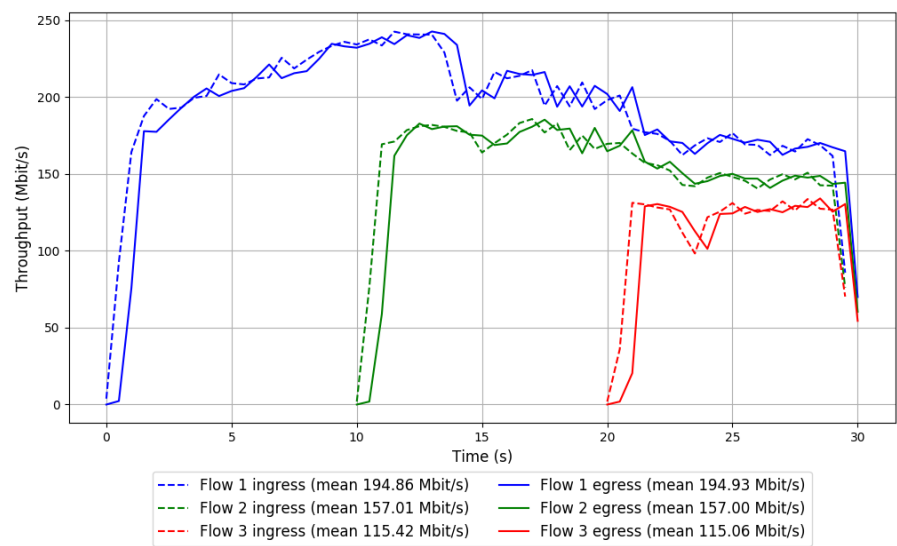


Run 4: Statistics of Indigo

Start at: 2018-06-01 23:26:29
End at: 2018-06-01 23:26:59
Local clock offset: -0.104 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.83 Mbit/s
95th percentile per-packet one-way delay: 70.232 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 194.93 Mbit/s
95th percentile per-packet one-way delay: 67.364 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 157.00 Mbit/s
95th percentile per-packet one-way delay: 71.878 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 115.06 Mbit/s
95th percentile per-packet one-way delay: 77.594 ms
Loss rate: 1.34%

Run 4: Report of Indigo — Data Link

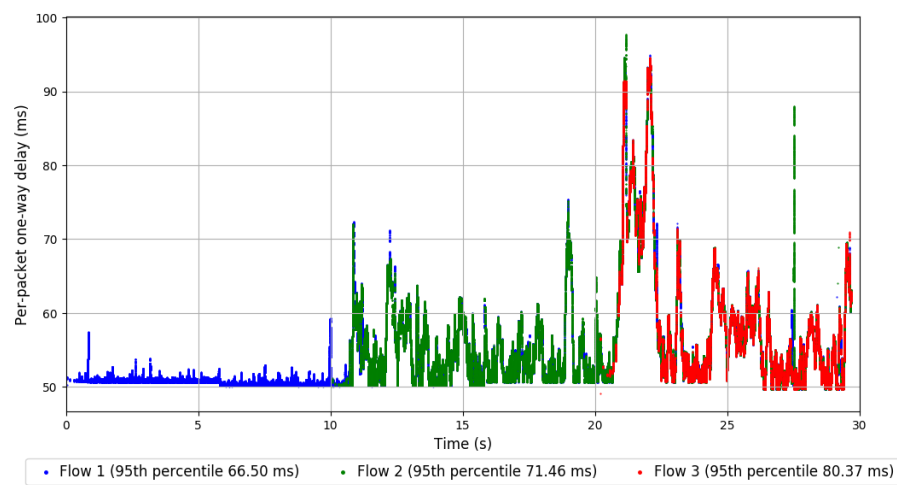
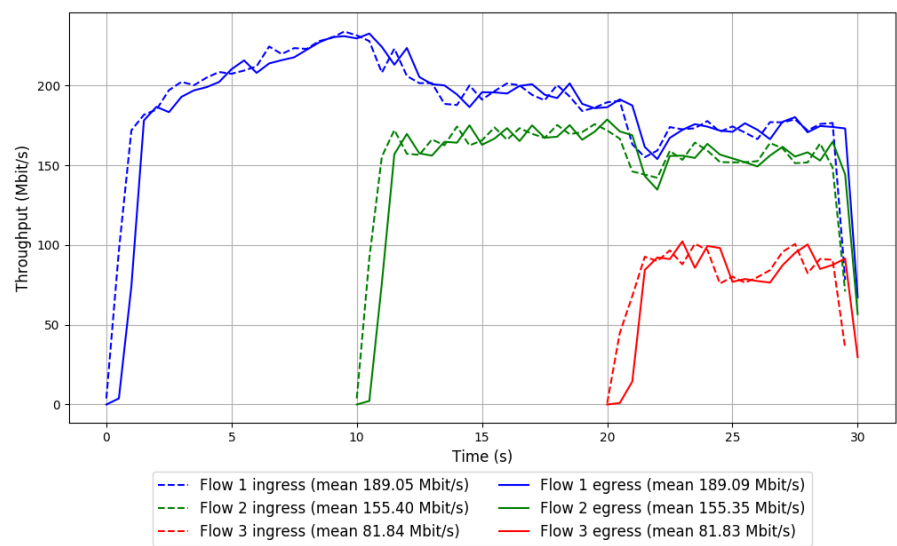


Run 5: Statistics of Indigo

Start at: 2018-06-01 23:48:50
End at: 2018-06-01 23:49:20
Local clock offset: -0.139 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 318.20 Mbit/s
95th percentile per-packet one-way delay: 69.532 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 189.09 Mbit/s
95th percentile per-packet one-way delay: 66.499 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 155.35 Mbit/s
95th percentile per-packet one-way delay: 71.461 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 80.372 ms
Loss rate: 1.05%

Run 5: Report of Indigo — Data Link

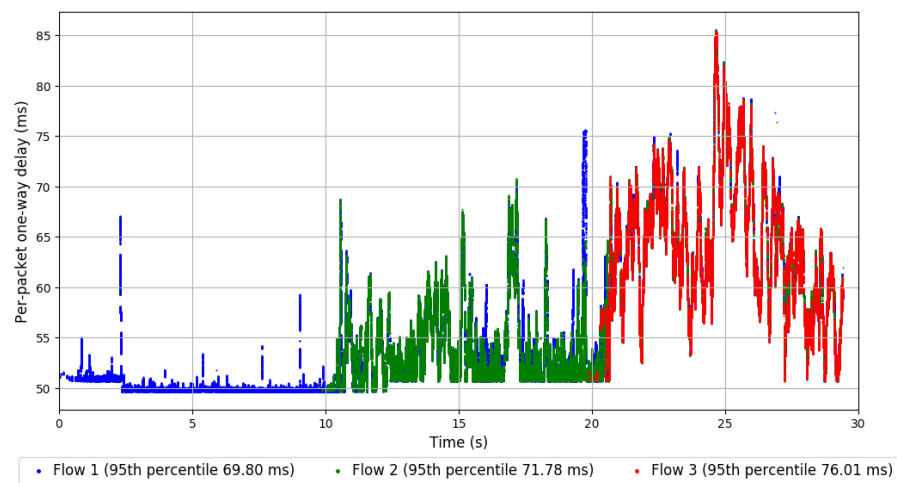
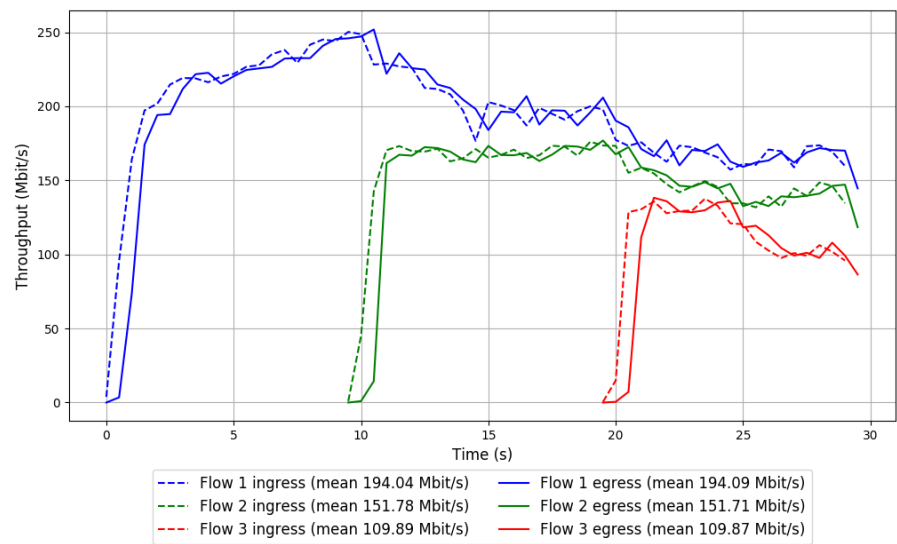


Run 6: Statistics of Indigo

Start at: 2018-06-02 00:11:03
End at: 2018-06-02 00:11:33
Local clock offset: -0.142 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.36 Mbit/s
95th percentile per-packet one-way delay: 71.632 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 194.09 Mbit/s
95th percentile per-packet one-way delay: 69.798 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 151.71 Mbit/s
95th percentile per-packet one-way delay: 71.783 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 109.87 Mbit/s
95th percentile per-packet one-way delay: 76.012 ms
Loss rate: 1.09%

Run 6: Report of Indigo — Data Link

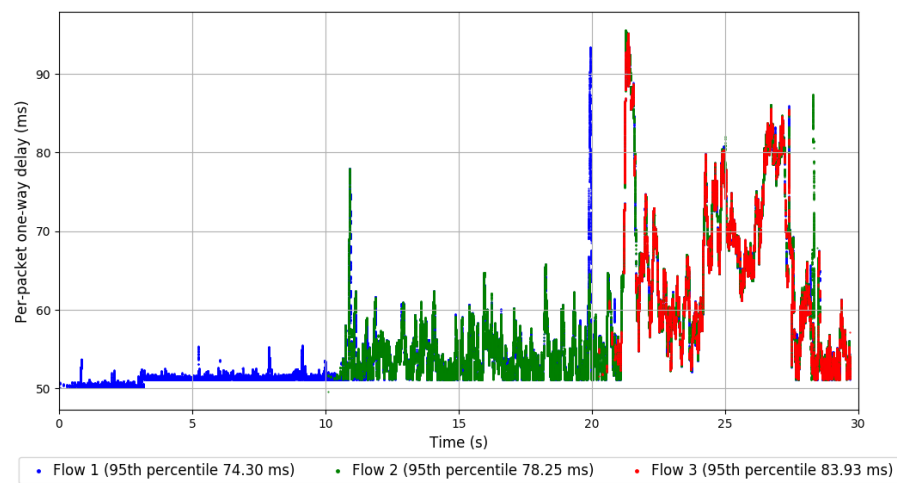
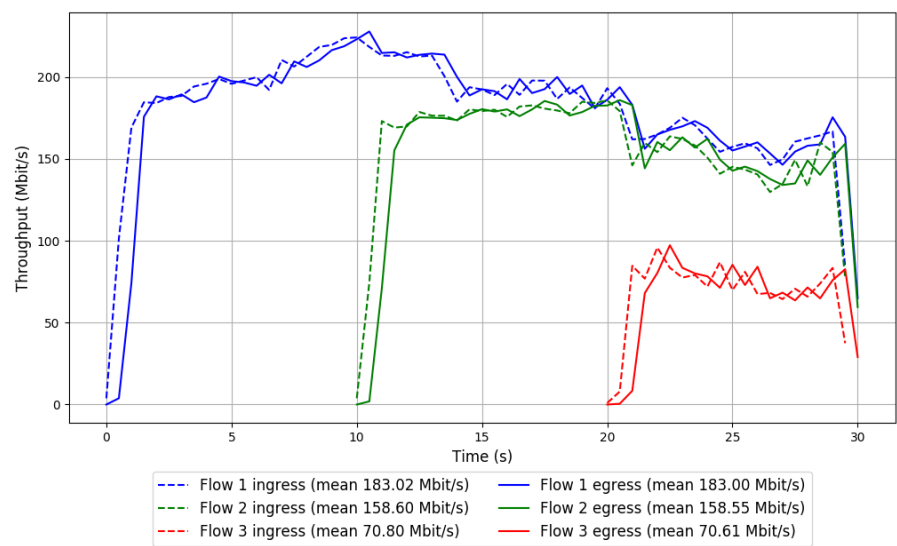


Run 7: Statistics of Indigo

Start at: 2018-06-02 00:33:12
End at: 2018-06-02 00:33:42
Local clock offset: 0.286 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.25 Mbit/s
95th percentile per-packet one-way delay: 77.602 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 183.00 Mbit/s
95th percentile per-packet one-way delay: 74.301 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 158.55 Mbit/s
95th percentile per-packet one-way delay: 78.250 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 83.929 ms
Loss rate: 1.26%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-02 00:55:28

End at: 2018-06-02 00:55:58

Local clock offset: -0.014 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-06-02 03:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.59 Mbit/s

95th percentile per-packet one-way delay: 74.693 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 188.42 Mbit/s

95th percentile per-packet one-way delay: 70.736 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 154.69 Mbit/s

95th percentile per-packet one-way delay: 76.332 ms

Loss rate: 0.51%

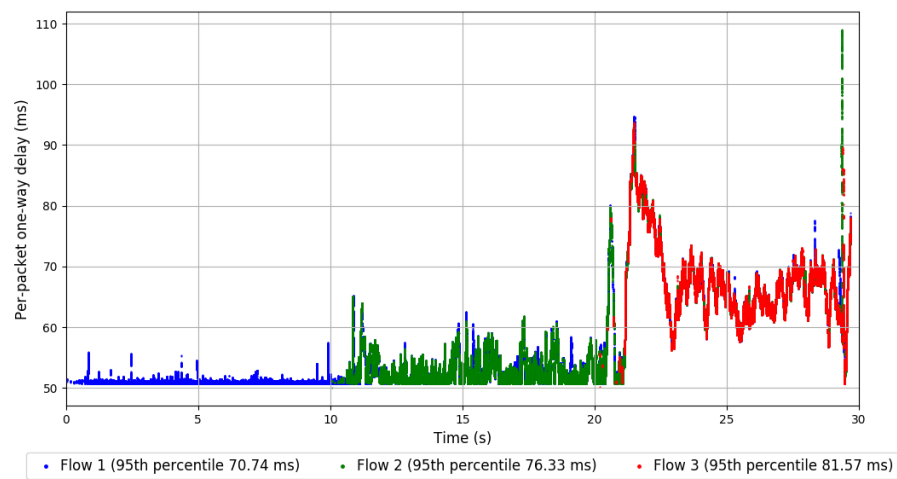
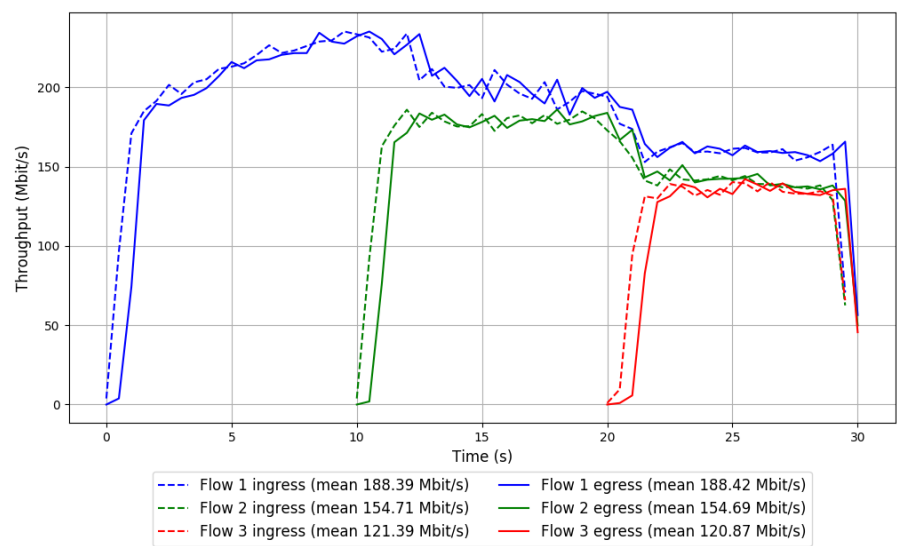
-- Flow 3:

Average throughput: 120.87 Mbit/s

95th percentile per-packet one-way delay: 81.569 ms

Loss rate: 1.46%

Run 8: Report of Indigo — Data Link

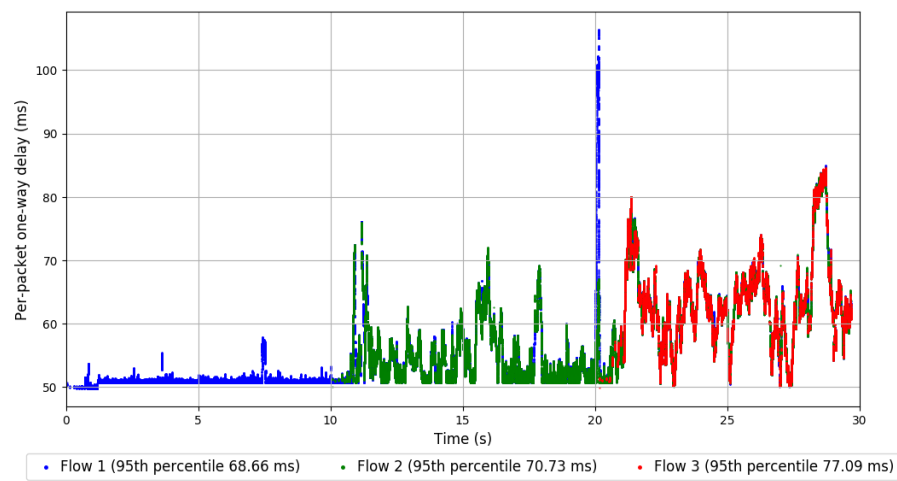
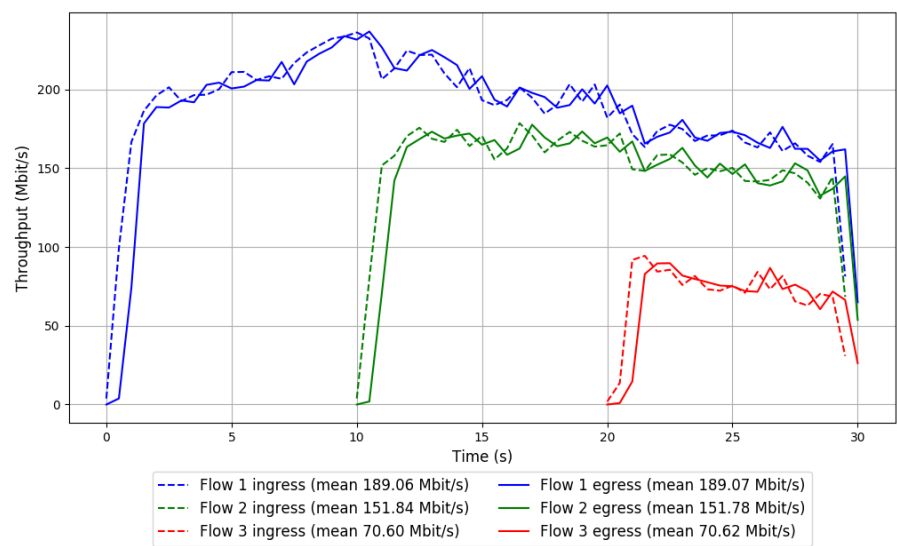


Run 9: Statistics of Indigo

Start at: 2018-06-02 01:17:54
End at: 2018-06-02 01:18:24
Local clock offset: -0.04 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.18 Mbit/s
95th percentile per-packet one-way delay: 70.066 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 189.07 Mbit/s
95th percentile per-packet one-way delay: 68.663 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 151.78 Mbit/s
95th percentile per-packet one-way delay: 70.732 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 77.087 ms
Loss rate: 1.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-02 01:40:10

End at: 2018-06-02 01:40:40

Local clock offset: -0.53 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-02 03:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.19 Mbit/s

95th percentile per-packet one-way delay: 76.663 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 179.53 Mbit/s

95th percentile per-packet one-way delay: 71.101 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 156.20 Mbit/s

95th percentile per-packet one-way delay: 77.187 ms

Loss rate: 0.51%

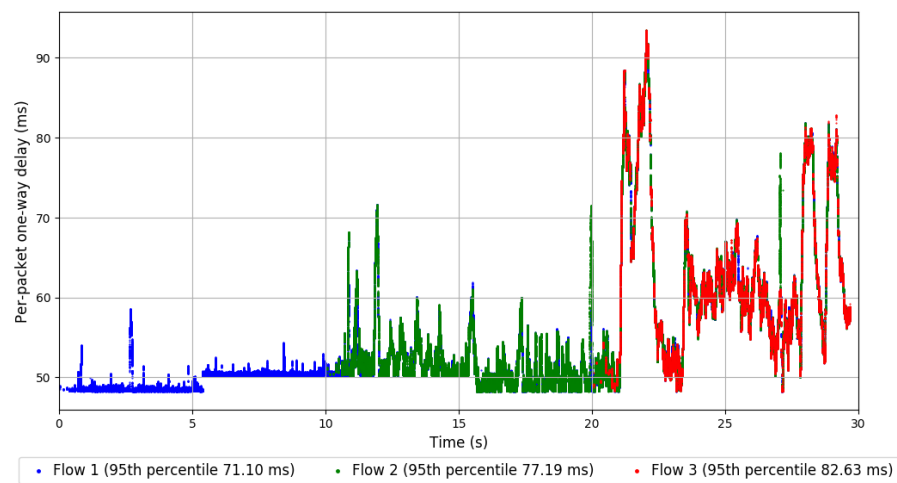
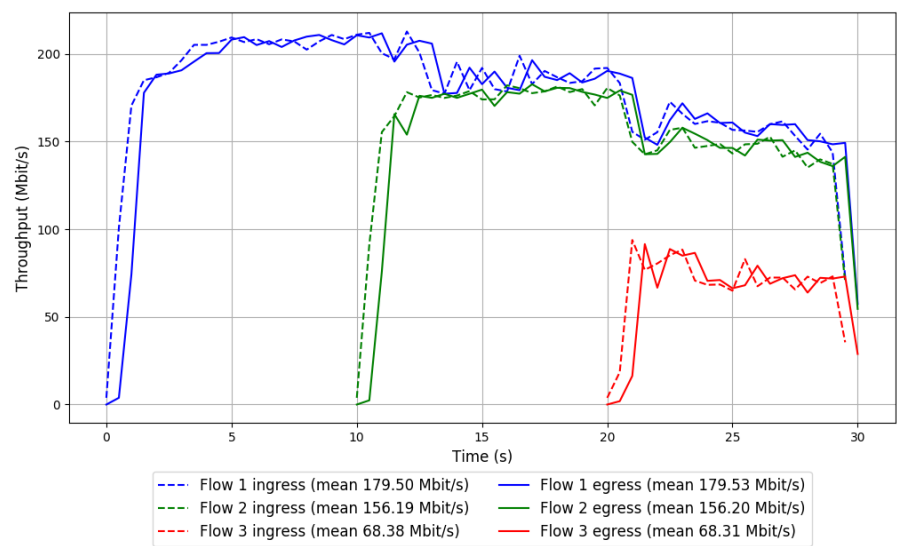
-- Flow 3:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 82.630 ms

Loss rate: 1.11%

Run 10: Report of Indigo — Data Link

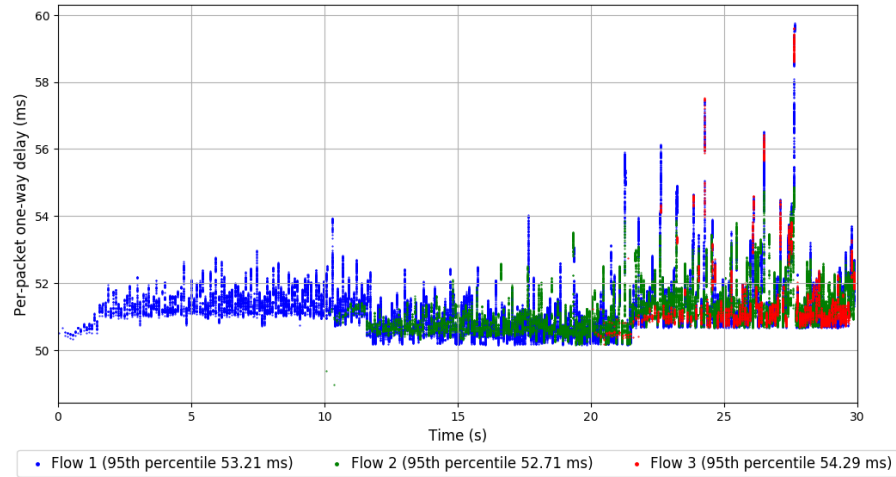
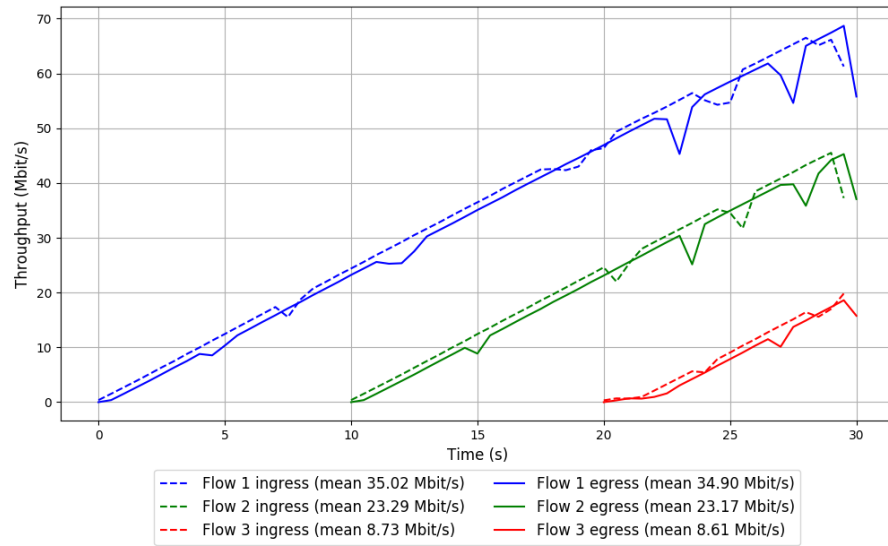


Run 1: Statistics of LEDBAT

Start at: 2018-06-01 22:21:04
End at: 2018-06-01 22:21:34
Local clock offset: -0.125 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.11 Mbit/s
95th percentile per-packet one-way delay: 53.082 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 53.209 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 52.709 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 54.291 ms
Loss rate: 2.35%

Run 1: Report of LEDBAT — Data Link

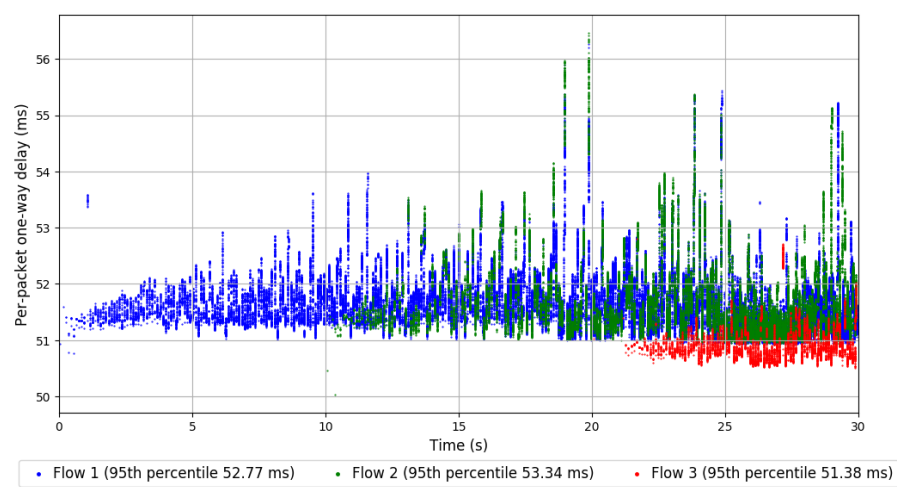
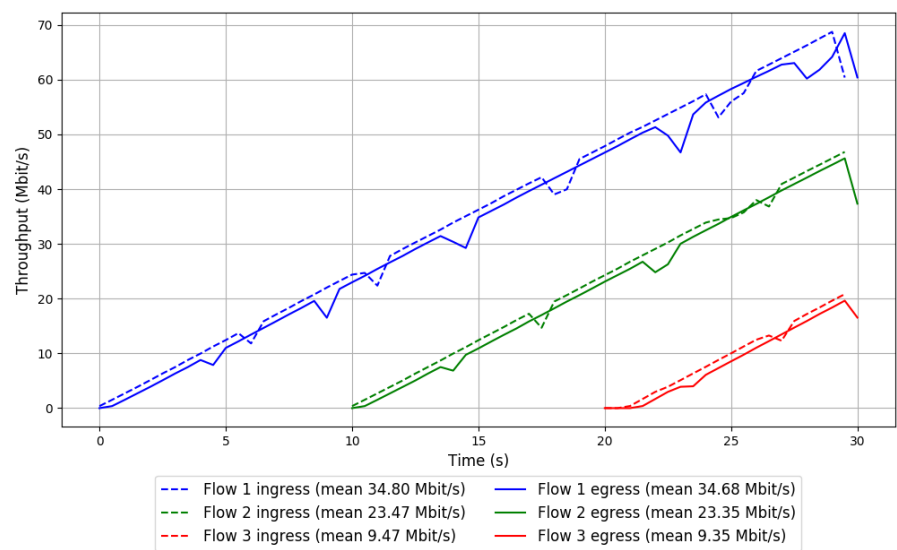


```
Run 2: Statistics of LEDBAT

Start at: 2018-06-01 22:43:33
End at: 2018-06-01 22:44:03
Local clock offset: 0.184 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-02 03:13:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.26 Mbit/s
95th percentile per-packet one-way delay: 52.929 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 34.68 Mbit/s
95th percentile per-packet one-way delay: 52.774 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 53.343 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 51.379 ms
Loss rate: 2.29%
```

Run 2: Report of LEDBAT — Data Link

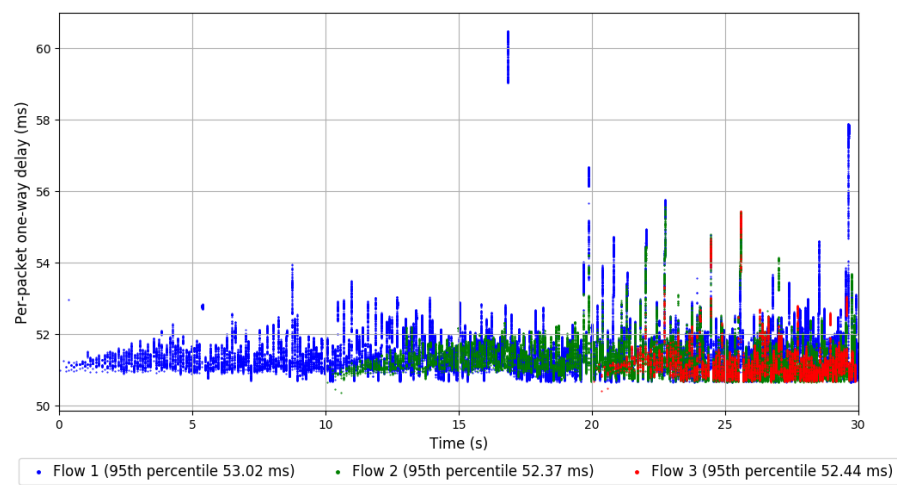
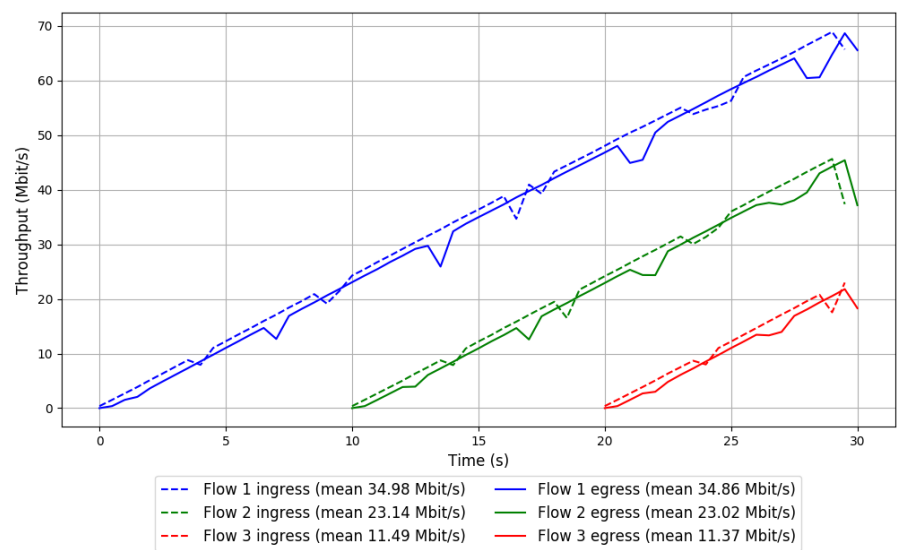


Run 3: Statistics of LEDBAT

Start at: 2018-06-01 23:05:55
End at: 2018-06-01 23:06:25
Local clock offset: -0.093 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 52.801 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 53.020 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 52.371 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 52.440 ms
Loss rate: 2.06%

Run 3: Report of LEDBAT — Data Link

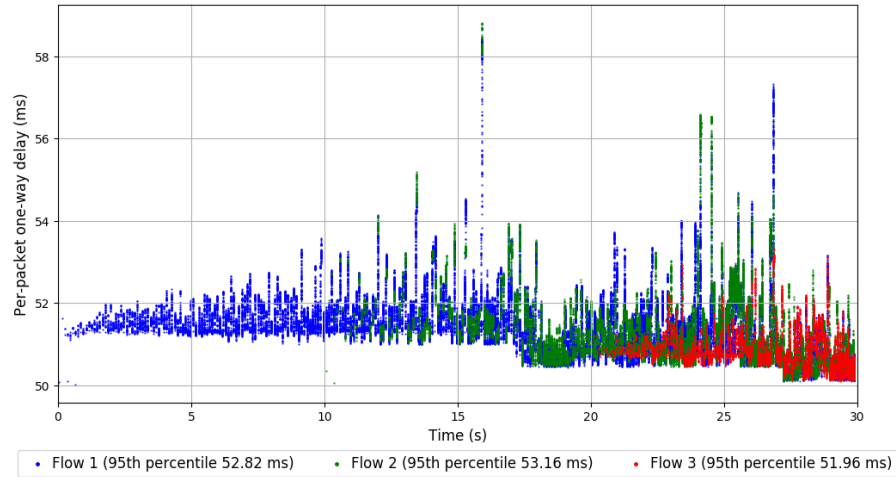
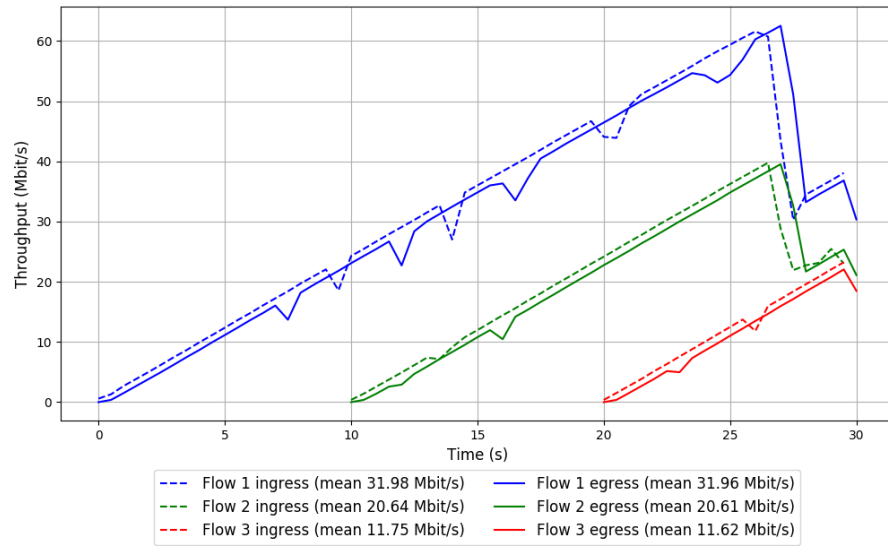


Run 4: Statistics of LEDBAT

Start at: 2018-06-01 23:27:58
End at: 2018-06-01 23:28:28
Local clock offset: 0.295 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 52.874 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 52.820 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 53.158 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 51.960 ms
Loss rate: 2.04%

Run 4: Report of LEDBAT — Data Link

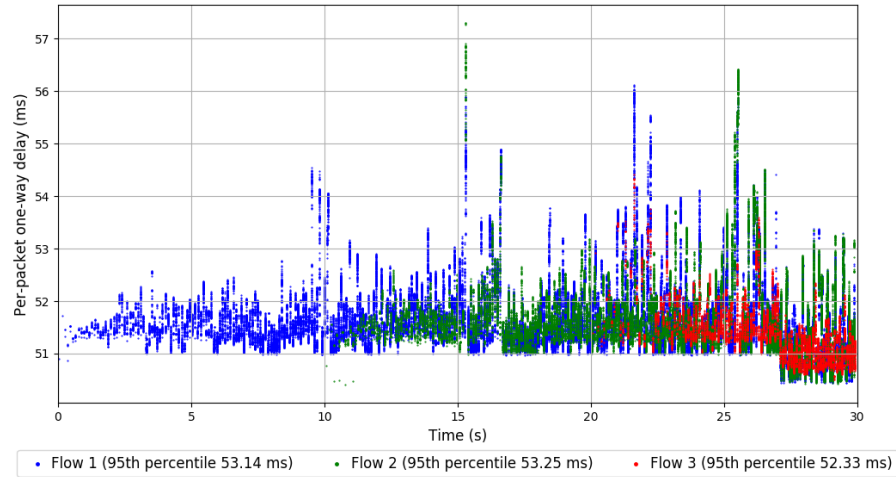
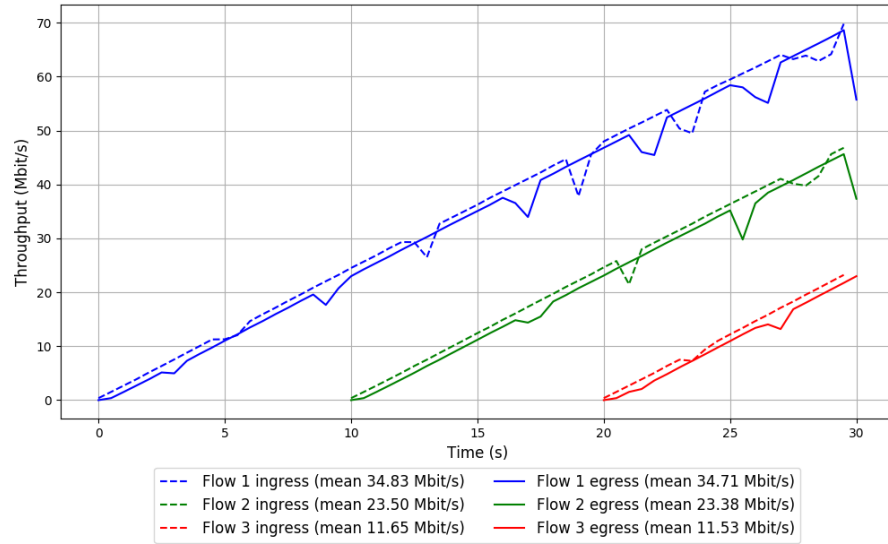


Run 5: Statistics of LEDBAT

Start at: 2018-06-01 23:50:19
End at: 2018-06-01 23:50:49
Local clock offset: 0.245 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.00 Mbit/s
95th percentile per-packet one-way delay: 53.127 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 53.137 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 52.332 ms
Loss rate: 2.04%

Run 5: Report of LEDBAT — Data Link

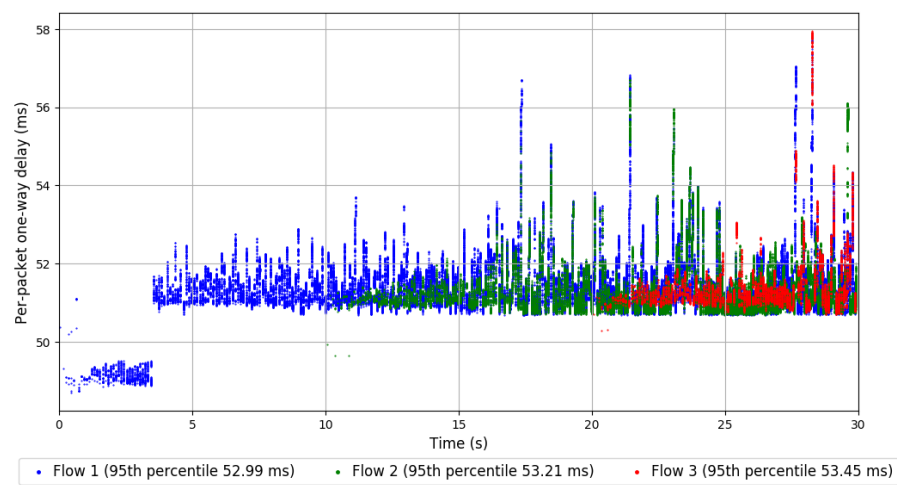
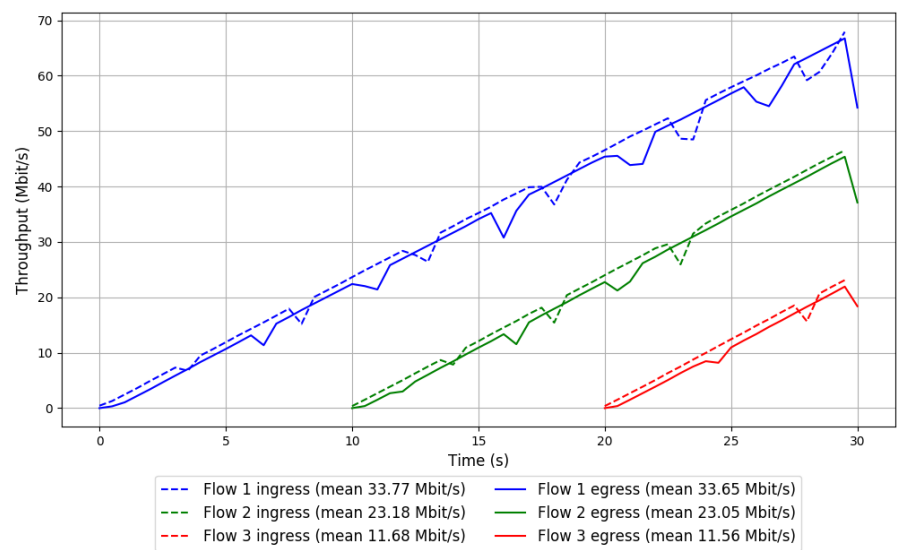


Run 6: Statistics of LEDBAT

Start at: 2018-06-02 00:12:32
End at: 2018-06-02 00:13:02
Local clock offset: -0.139 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 53.063 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 52.990 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 53.208 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 53.448 ms
Loss rate: 2.04%

Run 6: Report of LEDBAT — Data Link

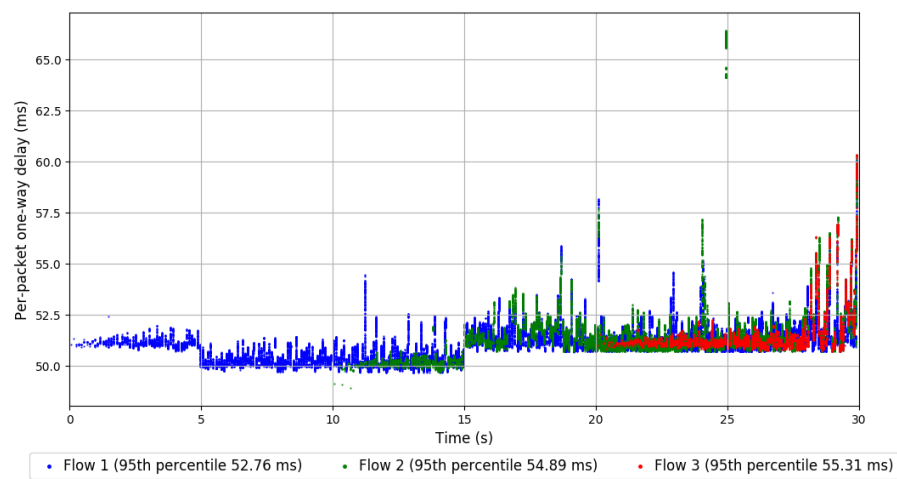
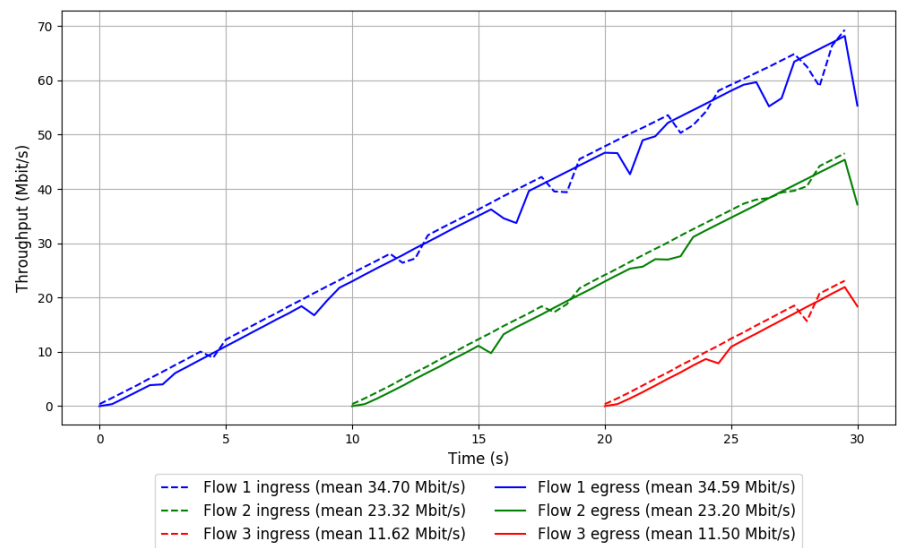


Run 7: Statistics of LEDBAT

Start at: 2018-06-02 00:34:41
End at: 2018-06-02 00:35:11
Local clock offset: -0.122 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 53.493 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 52.756 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 54.891 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 55.306 ms
Loss rate: 2.04%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-02 00:56:58

End at: 2018-06-02 00:57:28

Local clock offset: -0.061 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-02 03:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 52.383 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 52.194 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 52.455 ms

Loss rate: 1.00%

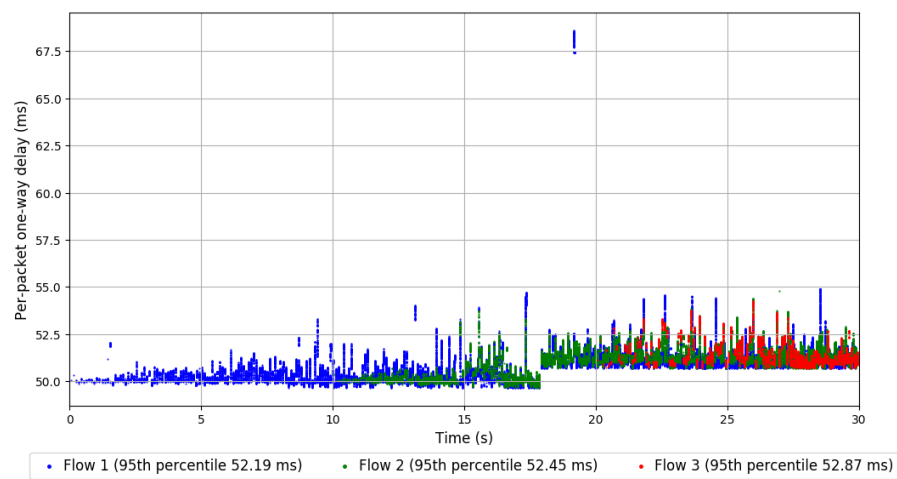
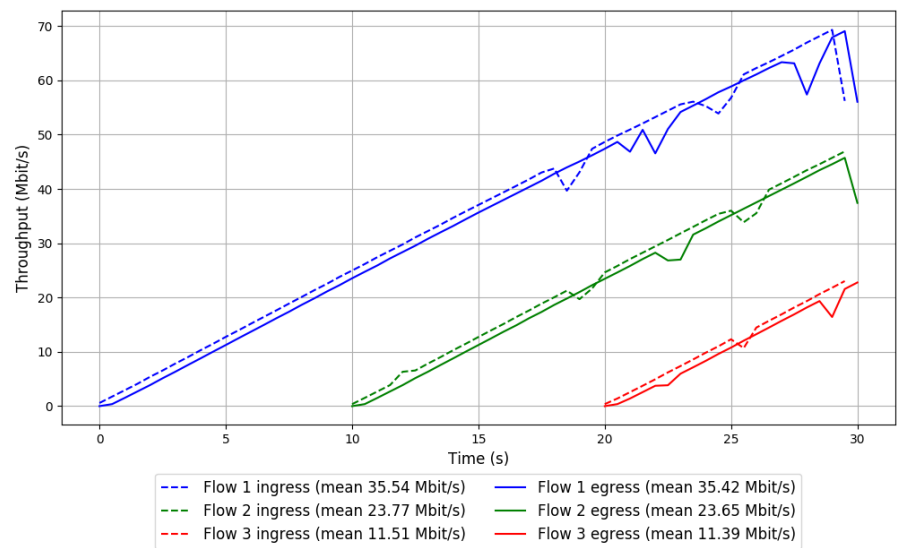
-- Flow 3:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 52.865 ms

Loss rate: 2.06%

Run 8: Report of LEDBAT — Data Link

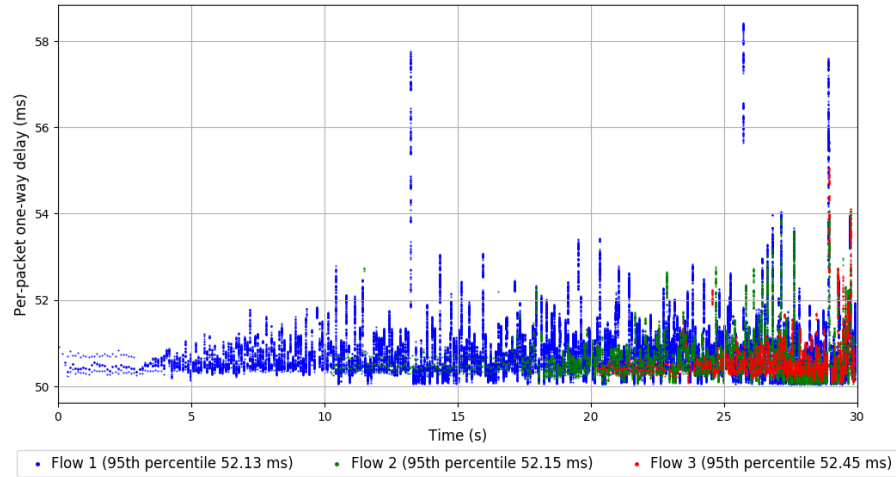
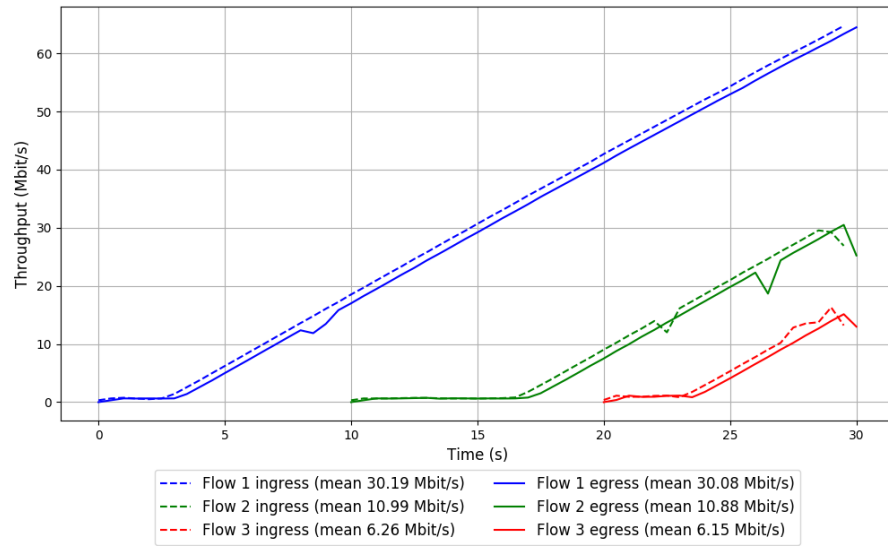


Run 9: Statistics of LEDBAT

Start at: 2018-06-02 01:19:23
End at: 2018-06-02 01:19:53
Local clock offset: -0.103 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 52.148 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: 52.128 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 52.147 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 52.450 ms
Loss rate: 2.73%

Run 9: Report of LEDBAT — Data Link

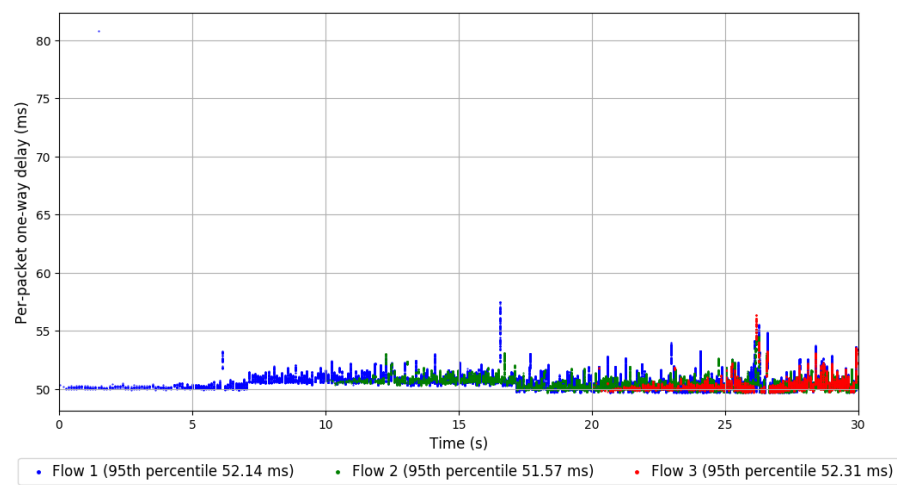
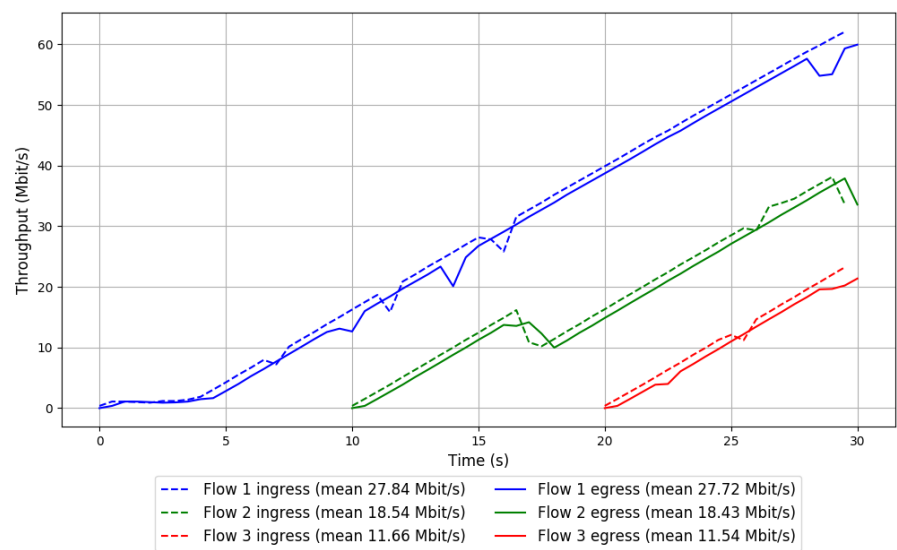


Run 10: Statistics of LEDBAT

Start at: 2018-06-02 01:41:39
End at: 2018-06-02 01:42:09
Local clock offset: -0.481 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 52.045 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 52.142 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 51.569 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 52.315 ms
Loss rate: 2.04%

Run 10: Report of LEDBAT — Data Link

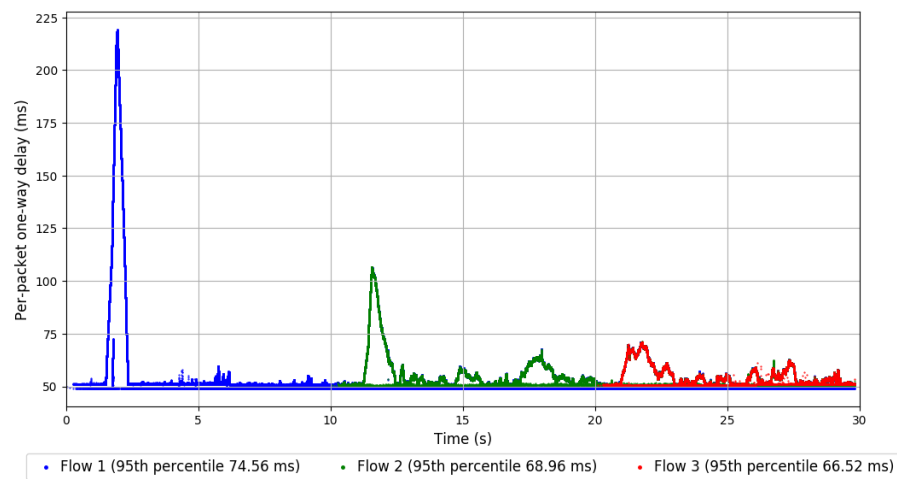
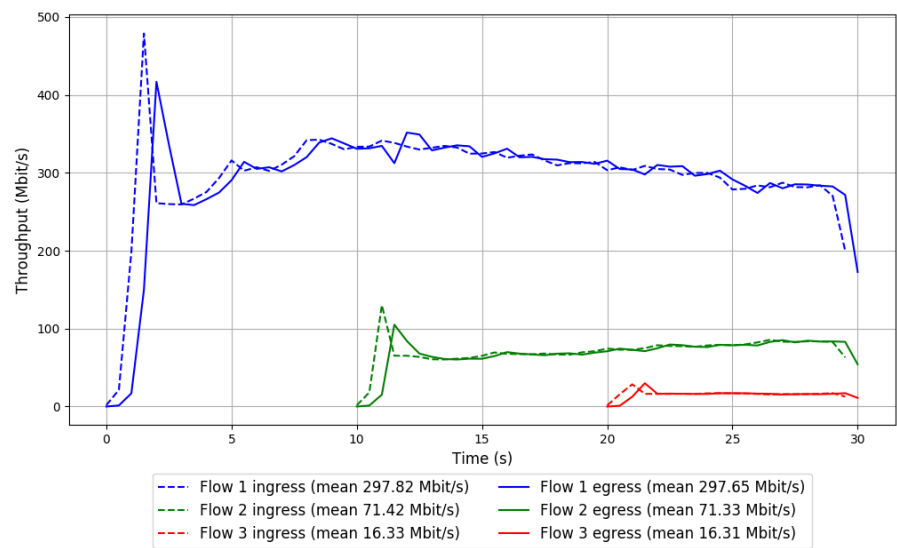


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-01 22:07:19
End at: 2018-06-01 22:07:49
Local clock offset: 0.242 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-02 03:13:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.29 Mbit/s
95th percentile per-packet one-way delay: 72.835 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 297.65 Mbit/s
95th percentile per-packet one-way delay: 74.556 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 71.33 Mbit/s
95th percentile per-packet one-way delay: 68.963 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 16.31 Mbit/s
95th percentile per-packet one-way delay: 66.517 ms
Loss rate: 1.09%
```


Run 1: Report of PCC-Allegro — Data Link

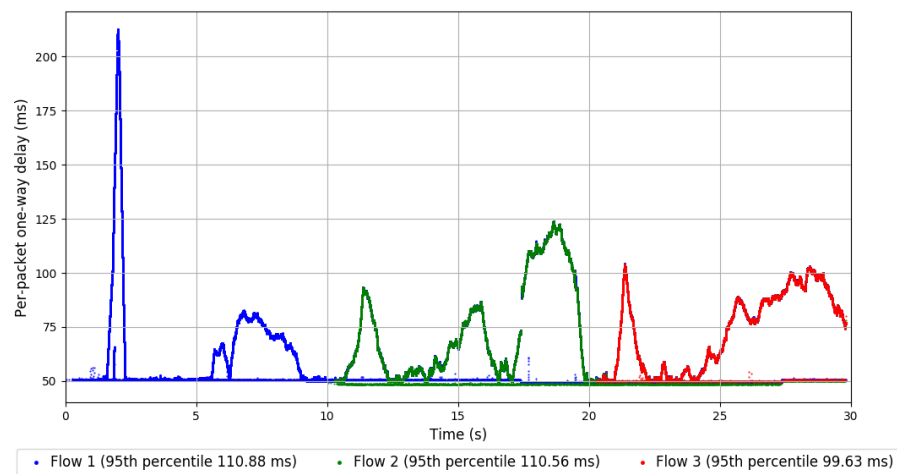
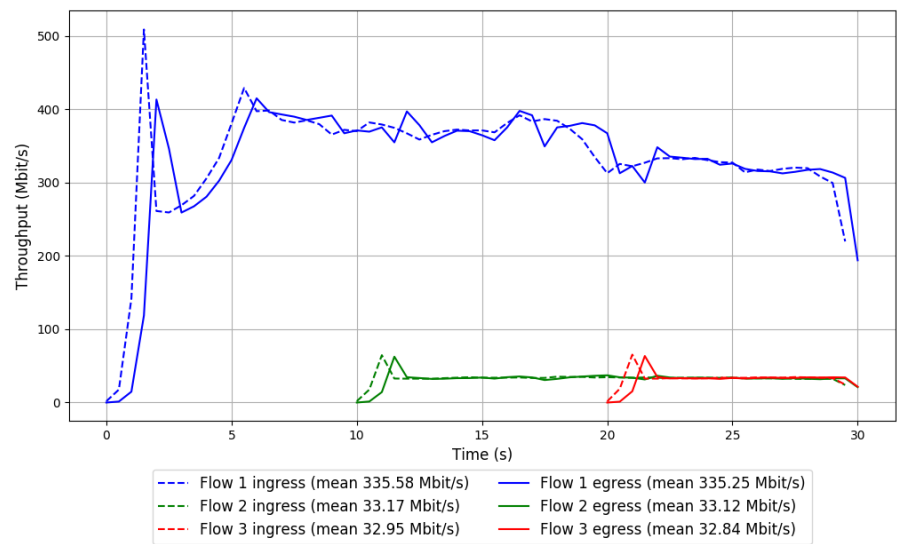


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-01 22:29:48
End at: 2018-06-01 22:30:18
Local clock offset: -0.482 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 367.94 Mbit/s
95th percentile per-packet one-way delay: 110.596 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 335.25 Mbit/s
95th percentile per-packet one-way delay: 110.881 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 110.562 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 99.631 ms
Loss rate: 1.31%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-01 22:52:12

End at: 2018-06-01 22:52:42

Local clock offset: 0.226 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-02 03:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.91 Mbit/s

95th percentile per-packet one-way delay: 178.894 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 338.45 Mbit/s

95th percentile per-packet one-way delay: 173.240 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 200.889 ms

Loss rate: 1.56%

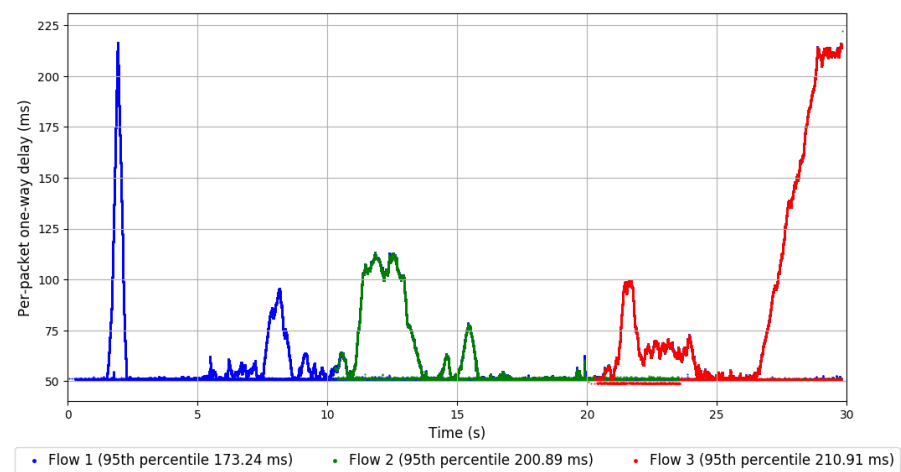
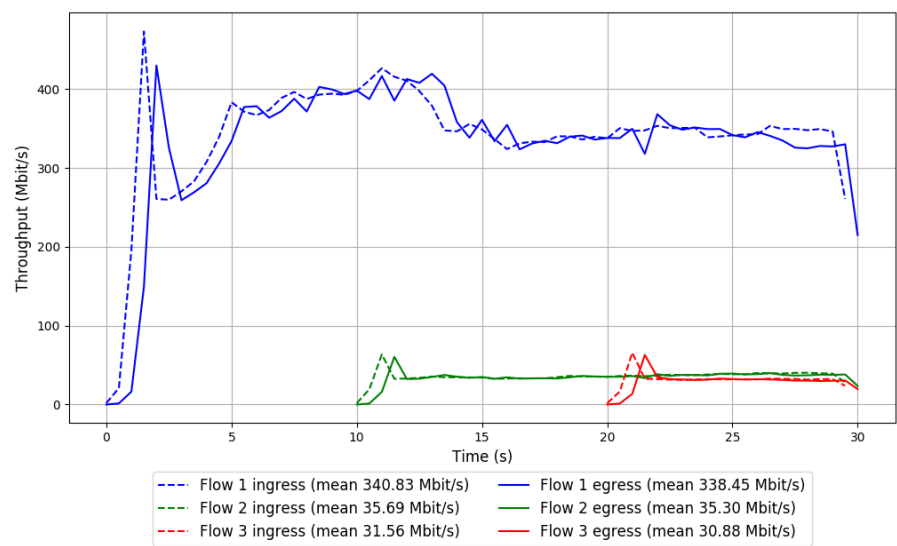
-- Flow 3:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 210.907 ms

Loss rate: 3.13%

Run 3: Report of PCC-Allegro — Data Link

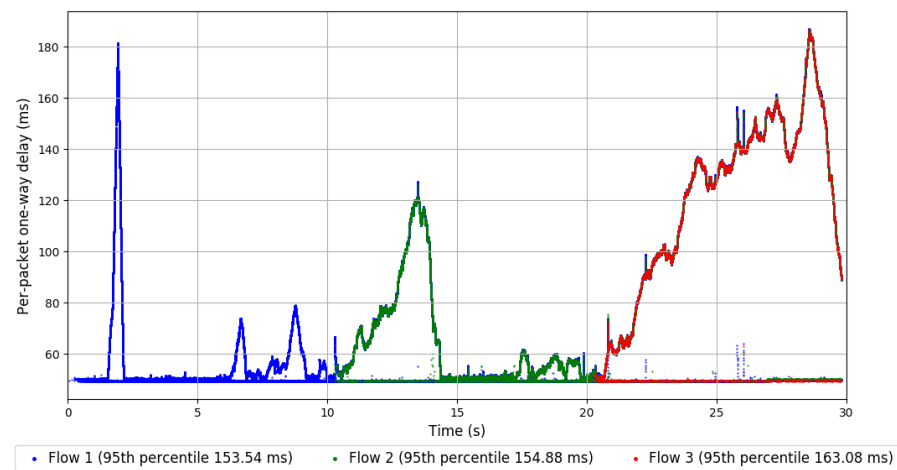
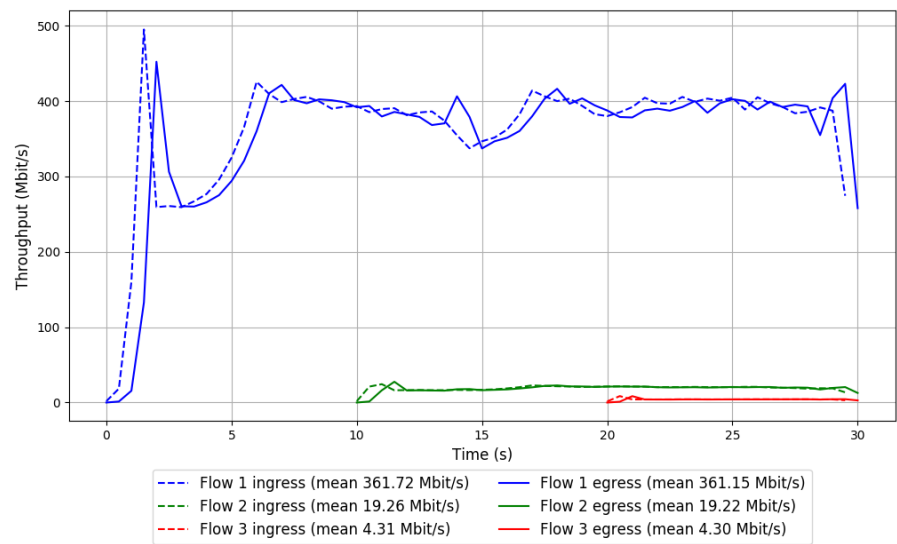


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-01 23:14:28
End at: 2018-06-01 23:14:58
Local clock offset: -0.064 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.31 Mbit/s
95th percentile per-packet one-way delay: 153.599 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 361.15 Mbit/s
95th percentile per-packet one-way delay: 153.536 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 19.22 Mbit/s
95th percentile per-packet one-way delay: 154.877 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 163.078 ms
Loss rate: 1.37%

Run 4: Report of PCC-Allegro — Data Link

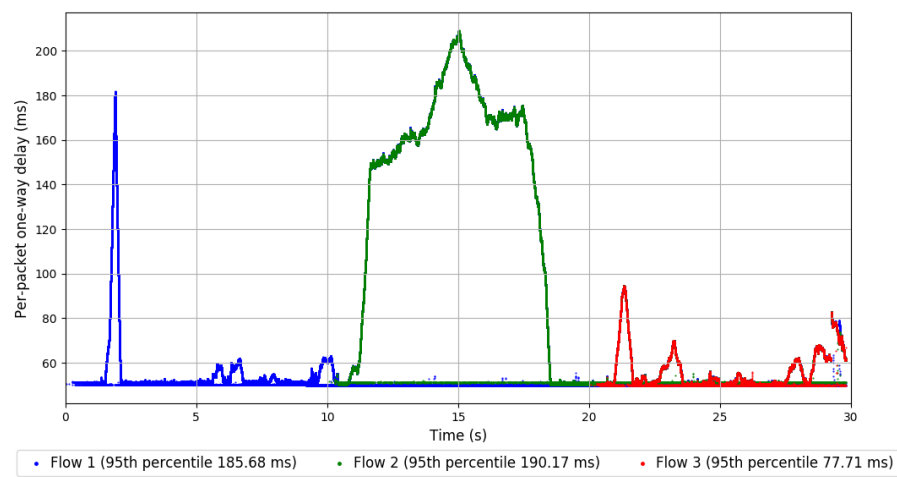
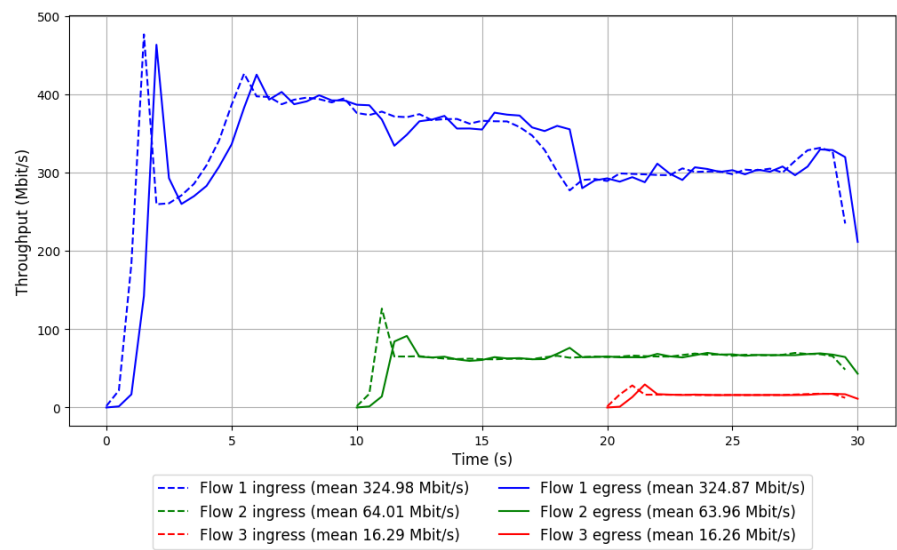


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-01 23:36:36
End at: 2018-06-01 23:37:06
Local clock offset: 0.255 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 372.57 Mbit/s
95th percentile per-packet one-way delay: 185.941 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 324.87 Mbit/s
95th percentile per-packet one-way delay: 185.678 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 63.96 Mbit/s
95th percentile per-packet one-way delay: 190.166 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 16.26 Mbit/s
95th percentile per-packet one-way delay: 77.711 ms
Loss rate: 1.18%

Run 5: Report of PCC-Allegro — Data Link

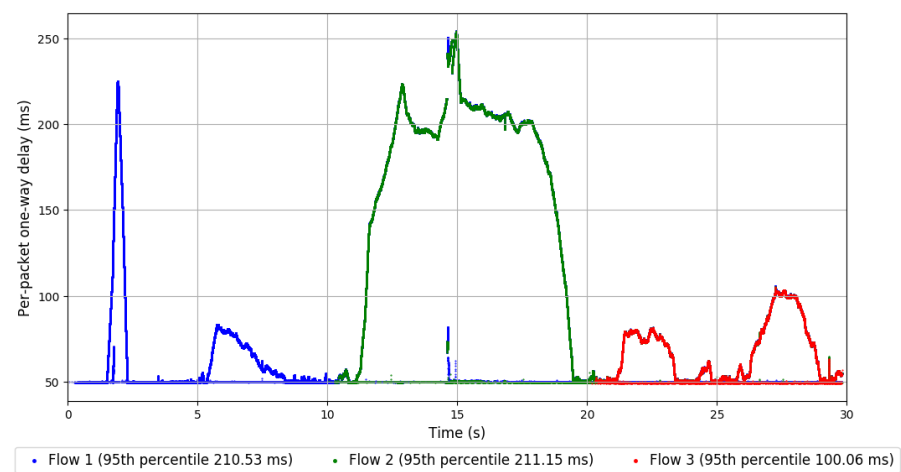
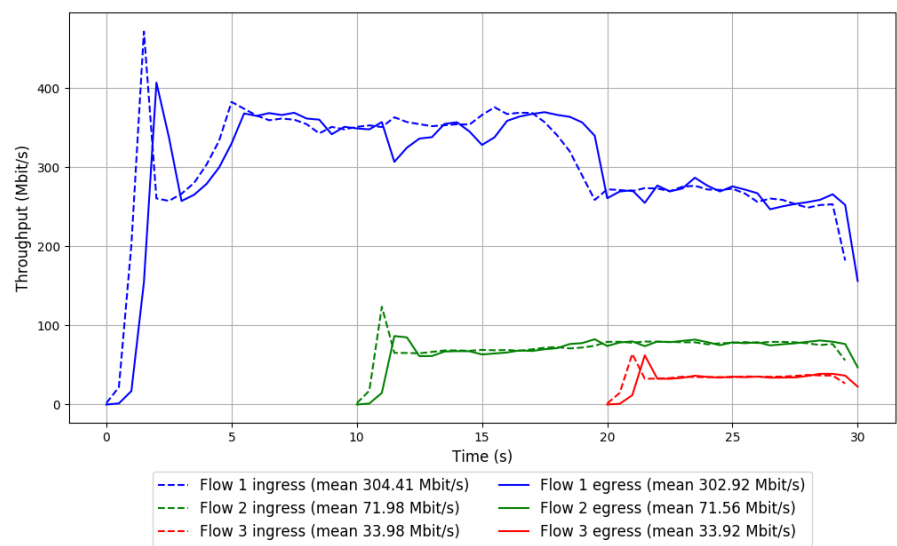


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-01 23:58:51
End at: 2018-06-01 23:59:21
Local clock offset: -0.474 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-02 03:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.48 Mbit/s
95th percentile per-packet one-way delay: 210.432 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 302.92 Mbit/s
95th percentile per-packet one-way delay: 210.529 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 71.56 Mbit/s
95th percentile per-packet one-way delay: 211.146 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 33.92 Mbit/s
95th percentile per-packet one-way delay: 100.057 ms
Loss rate: 1.16%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-02 00:21:05

End at: 2018-06-02 00:21:35

Local clock offset: -0.112 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-02 03:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.70 Mbit/s

95th percentile per-packet one-way delay: 76.547 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 167.49 Mbit/s

95th percentile per-packet one-way delay: 75.129 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 129.40 Mbit/s

95th percentile per-packet one-way delay: 99.096 ms

Loss rate: 0.54%

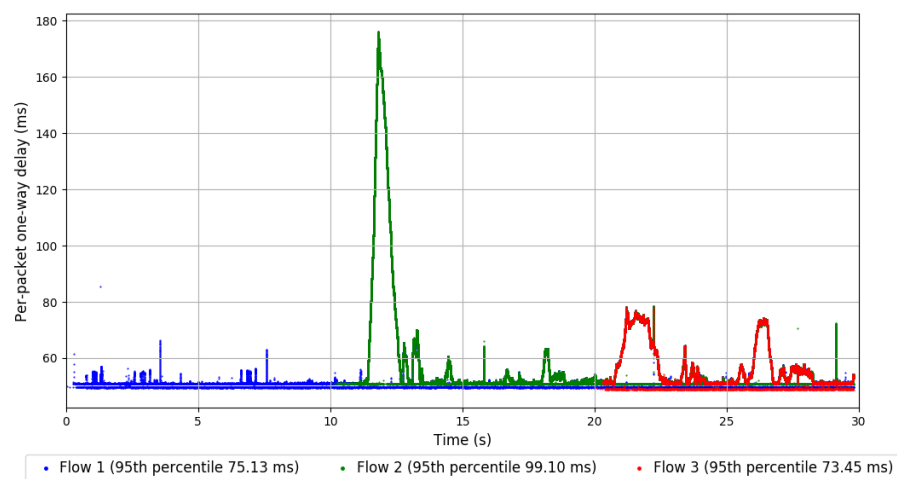
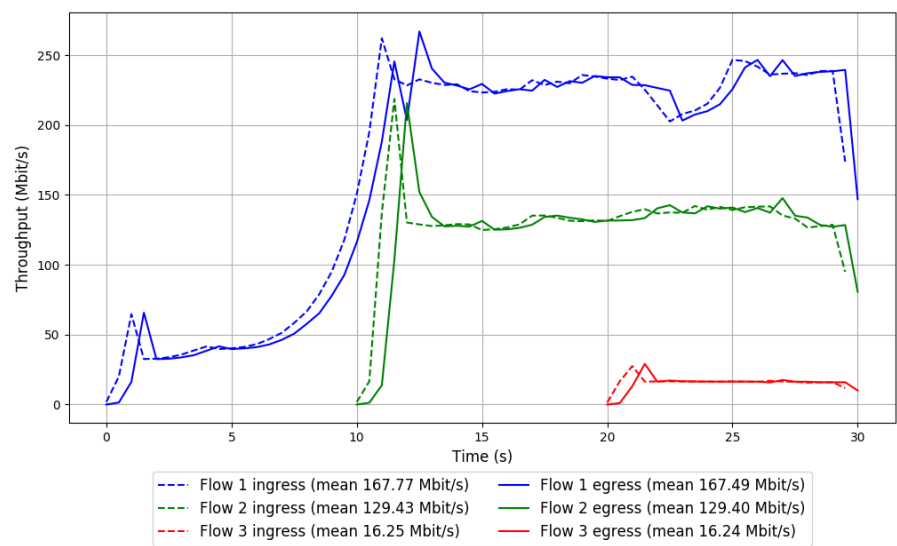
-- Flow 3:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 73.451 ms

Loss rate: 1.06%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-02 00:43:16

End at: 2018-06-02 00:43:46

Local clock offset: -0.055 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-02 03:13:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.37 Mbit/s

95th percentile per-packet one-way delay: 110.654 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 303.12 Mbit/s

95th percentile per-packet one-way delay: 110.373 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 69.61 Mbit/s

95th percentile per-packet one-way delay: 110.436 ms

Loss rate: 0.59%

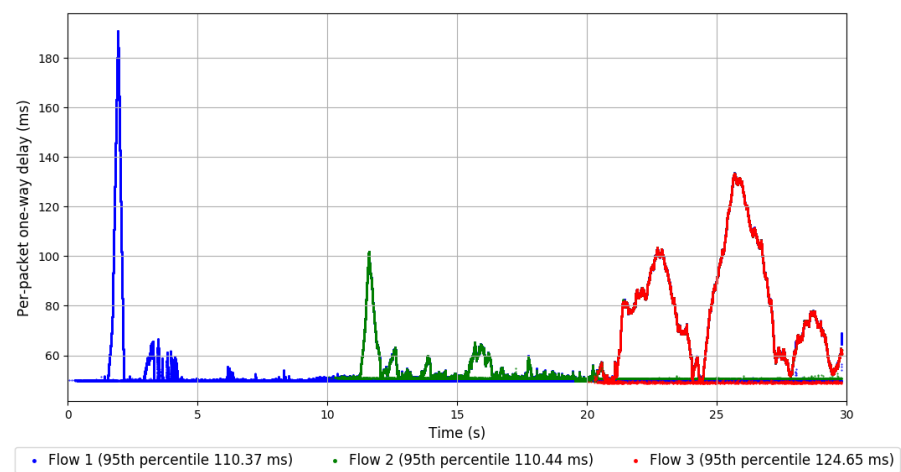
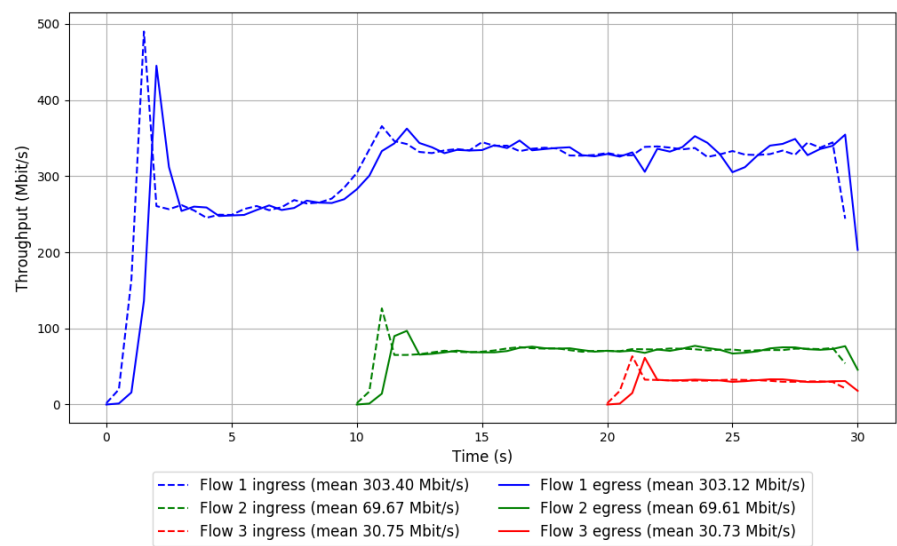
-- Flow 3:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 124.649 ms

Loss rate: 1.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-02 01:05:39

End at: 2018-06-02 01:06:09

Local clock offset: -0.009 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-02 03:14:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.69 Mbit/s

95th percentile per-packet one-way delay: 211.264 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 341.01 Mbit/s

95th percentile per-packet one-way delay: 210.749 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 17.49 Mbit/s

95th percentile per-packet one-way delay: 212.459 ms

Loss rate: 1.32%

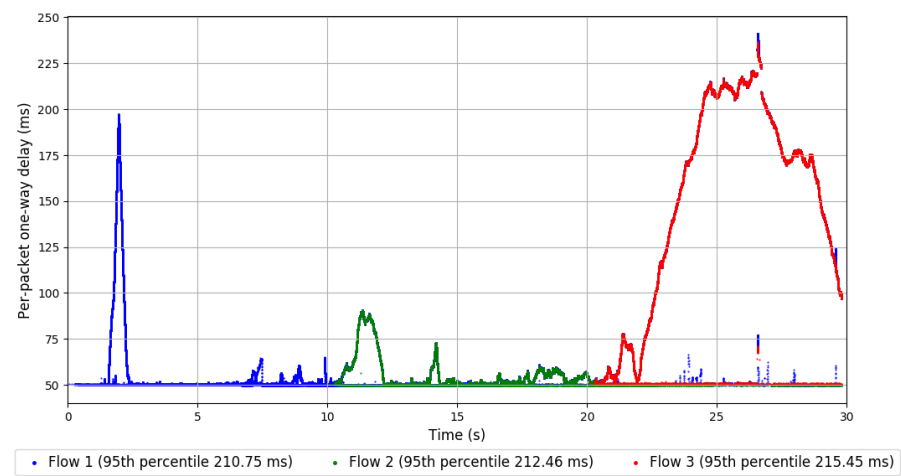
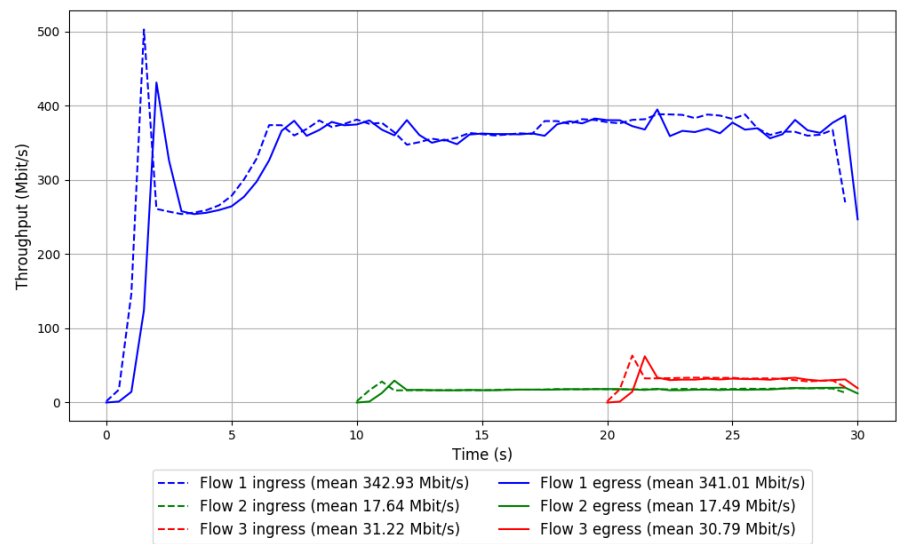
-- Flow 3:

Average throughput: 30.79 Mbit/s

95th percentile per-packet one-way delay: 215.453 ms

Loss rate: 2.41%

Run 9: Report of PCC-Allegro — Data Link

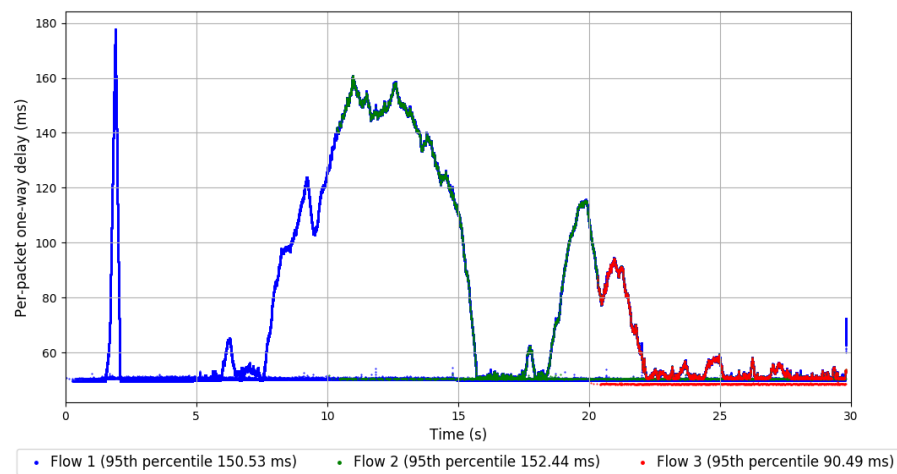
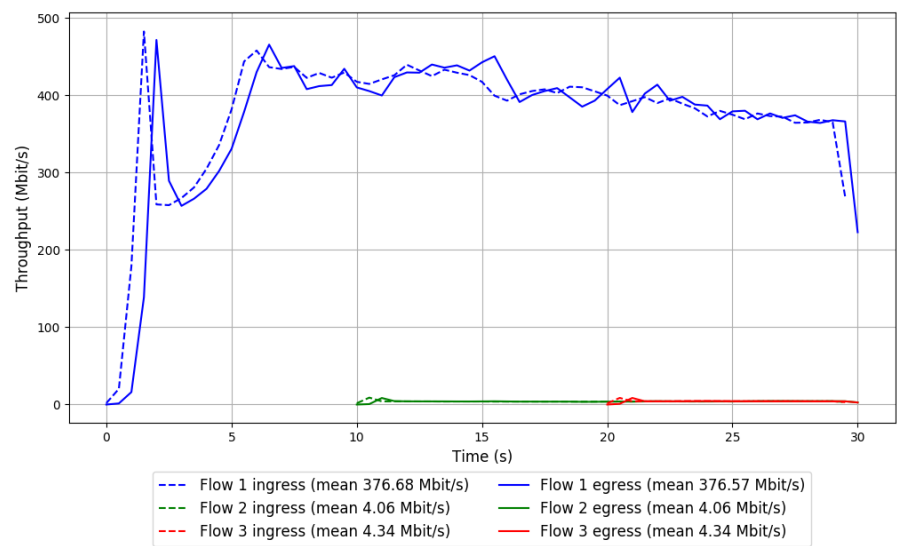


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-02 01:28:01
End at: 2018-06-02 01:28:31
Local clock offset: -0.499 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-02 03:14:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.67 Mbit/s
95th percentile per-packet one-way delay: 150.533 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 376.57 Mbit/s
95th percentile per-packet one-way delay: 150.535 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 152.437 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 90.487 ms
Loss rate: 1.01%

Run 10: Report of PCC-Allegro — Data Link

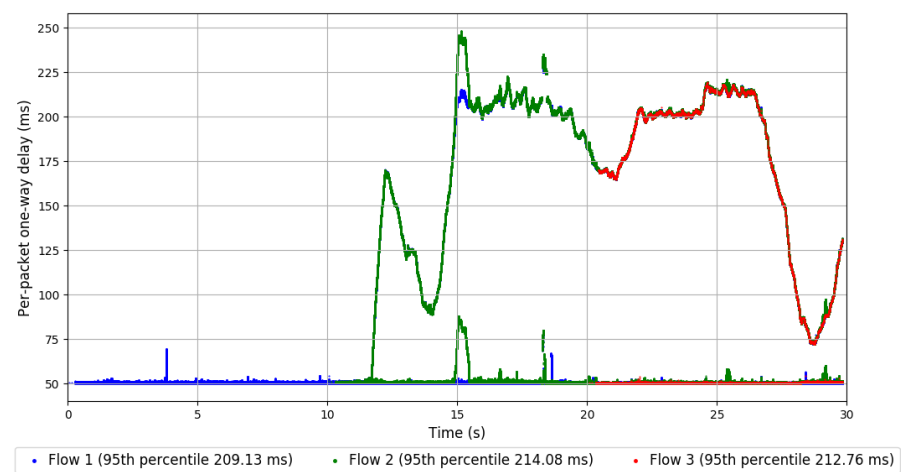
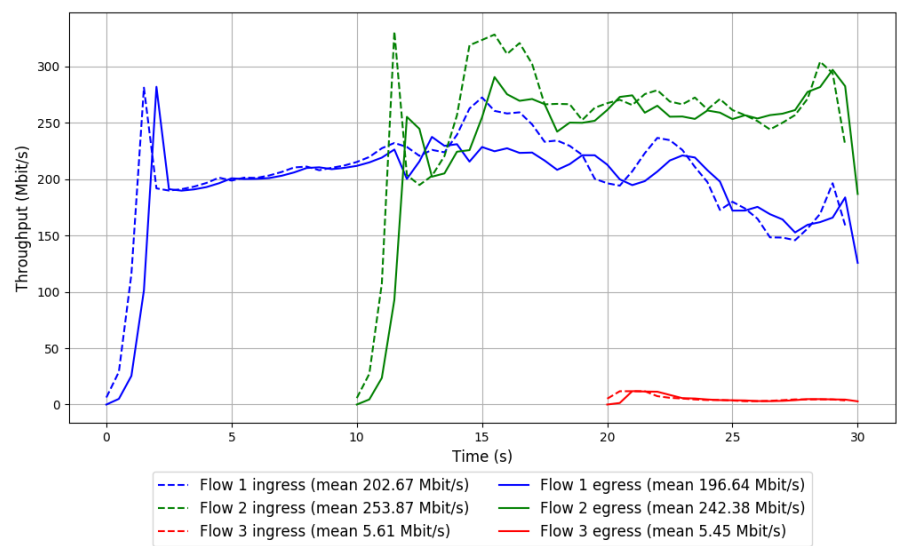


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-01 22:13:47
End at: 2018-06-01 22:14:17
Local clock offset: -0.104 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-02 03:21:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.31 Mbit/s
95th percentile per-packet one-way delay: 212.495 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 196.64 Mbit/s
95th percentile per-packet one-way delay: 209.130 ms
Loss rate: 3.31%
-- Flow 2:
Average throughput: 242.38 Mbit/s
95th percentile per-packet one-way delay: 214.081 ms
Loss rate: 5.02%
-- Flow 3:
Average throughput: 5.45 Mbit/s
95th percentile per-packet one-way delay: 212.757 ms
Loss rate: 3.84%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-01 22:36:13

End at: 2018-06-01 22:36:43

Local clock offset: -0.115 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-02 03:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.28 Mbit/s

95th percentile per-packet one-way delay: 374.804 ms

Loss rate: 38.63%

-- Flow 1:

Average throughput: 306.55 Mbit/s

95th percentile per-packet one-way delay: 374.925 ms

Loss rate: 38.78%

-- Flow 2:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 216.321 ms

Loss rate: 15.97%

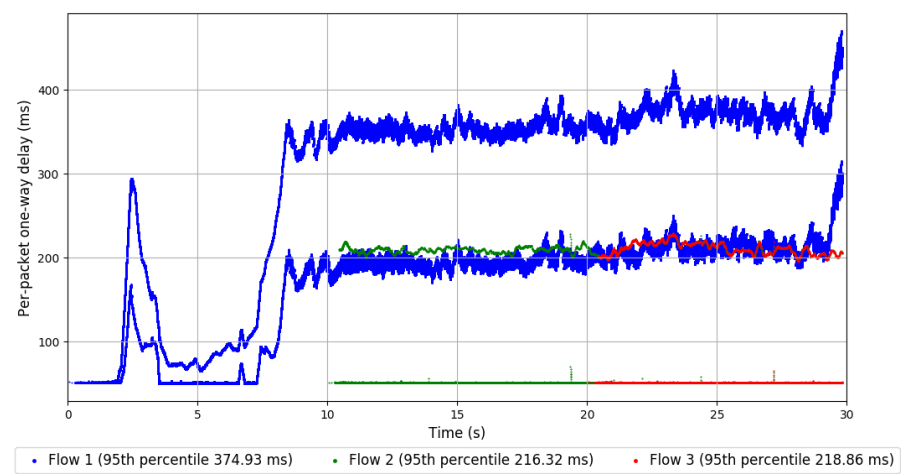
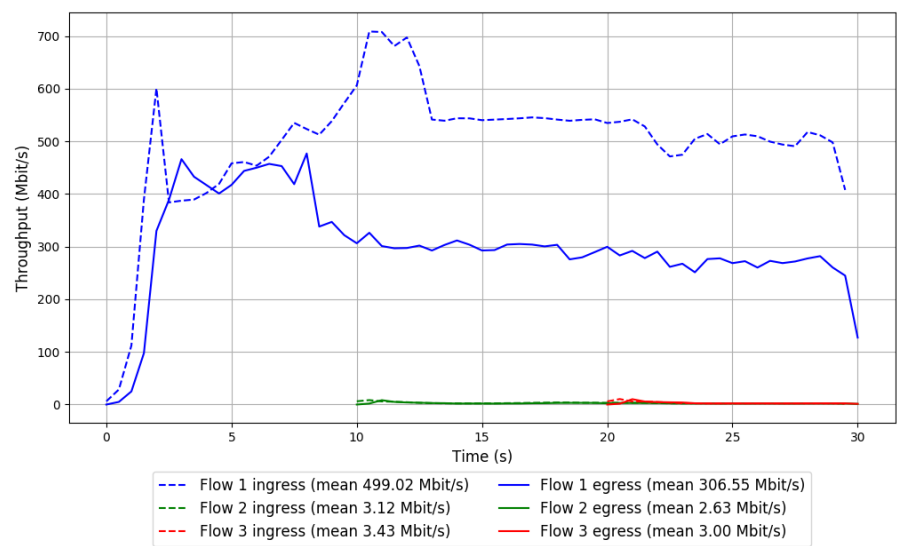
-- Flow 3:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 218.863 ms

Loss rate: 13.44%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-01 22:58:37

End at: 2018-06-01 22:59:07

Local clock offset: -0.137 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-02 03:23:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.25 Mbit/s

95th percentile per-packet one-way delay: 108.316 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 210.94 Mbit/s

95th percentile per-packet one-way delay: 128.239 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 119.27 Mbit/s

95th percentile per-packet one-way delay: 62.337 ms

Loss rate: 0.64%

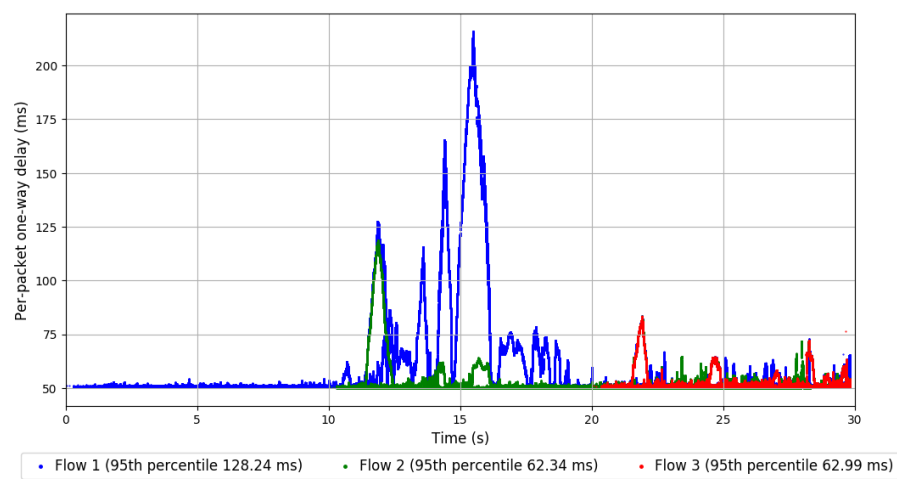
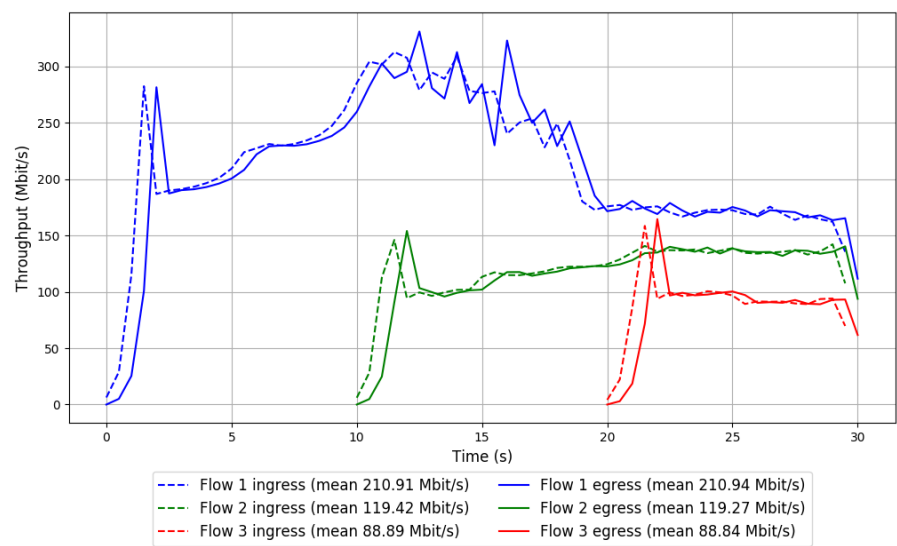
-- Flow 3:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 62.992 ms

Loss rate: 1.08%

Run 3: Report of PCC-Expr — Data Link

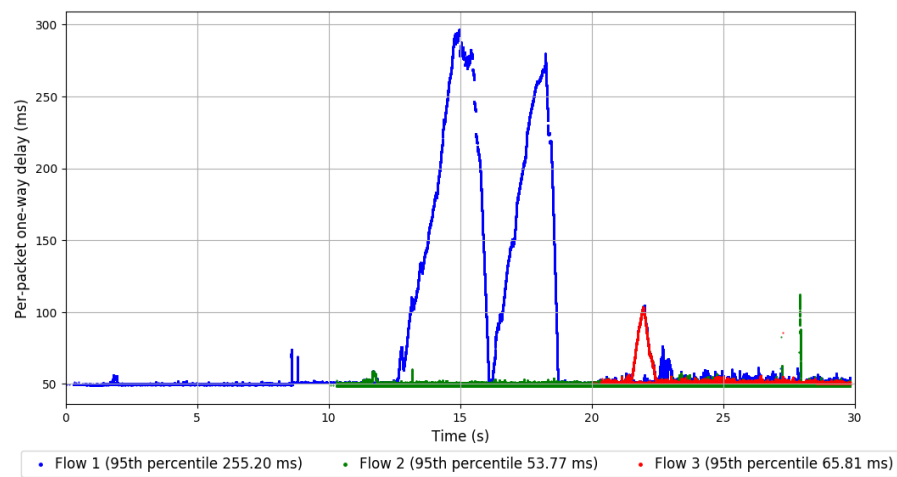
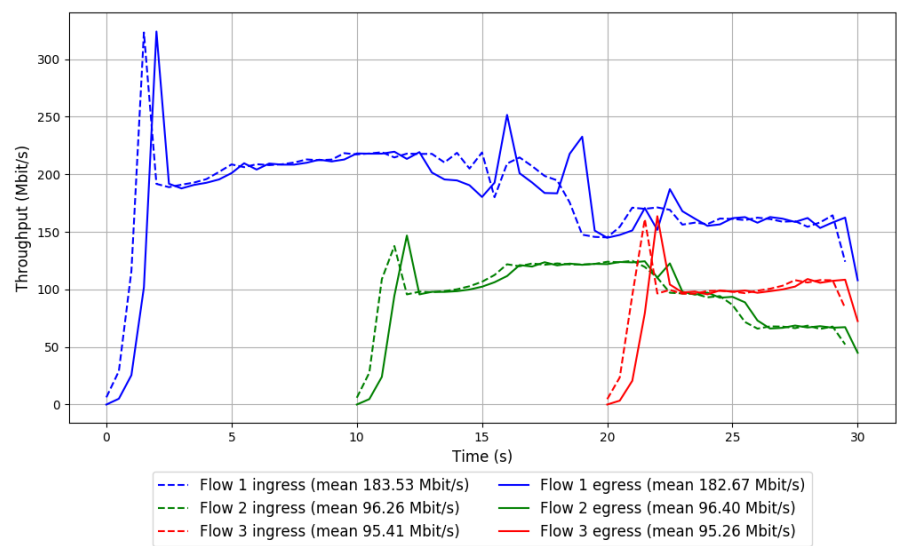


Run 4: Statistics of PCC-Expr

Start at: 2018-06-01 23:20:57
End at: 2018-06-01 23:21:27
Local clock offset: -0.074 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-02 03:23:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.87 Mbit/s
95th percentile per-packet one-way delay: 223.047 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 182.67 Mbit/s
95th percentile per-packet one-way delay: 255.199 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 53.774 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 65.810 ms
Loss rate: 1.18%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-01 23:43:03

End at: 2018-06-01 23:43:33

Local clock offset: -0.081 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-02 03:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.05 Mbit/s

95th percentile per-packet one-way delay: 202.391 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 183.20 Mbit/s

95th percentile per-packet one-way delay: 198.156 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 205.893 ms

Loss rate: 2.98%

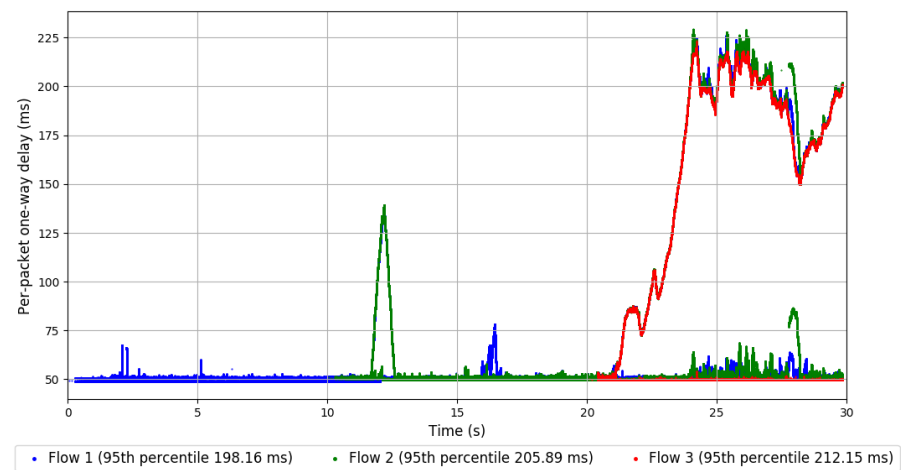
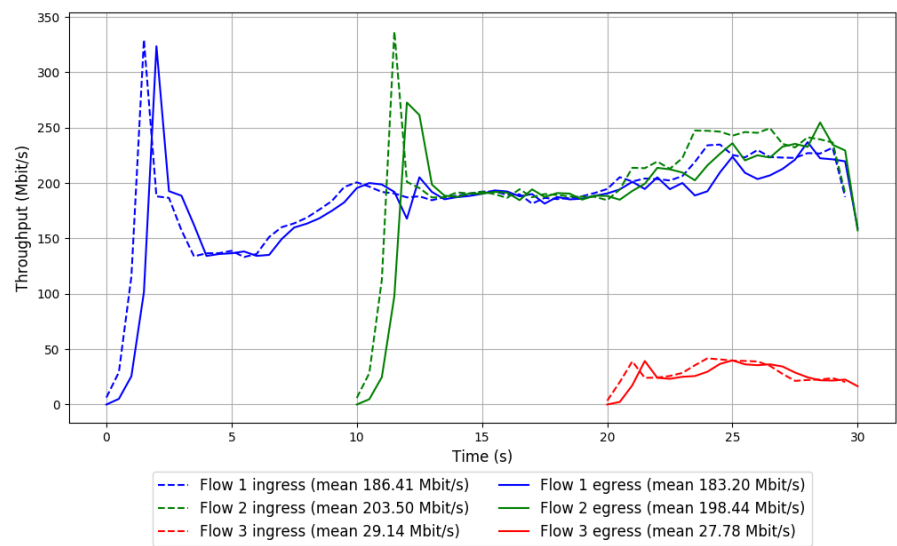
-- Flow 3:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 212.153 ms

Loss rate: 5.62%

Run 5: Report of PCC-Expr — Data Link

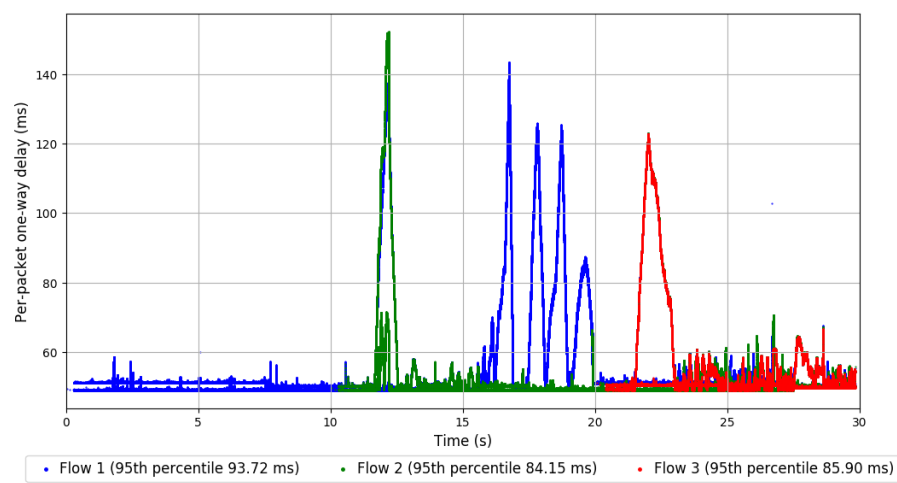
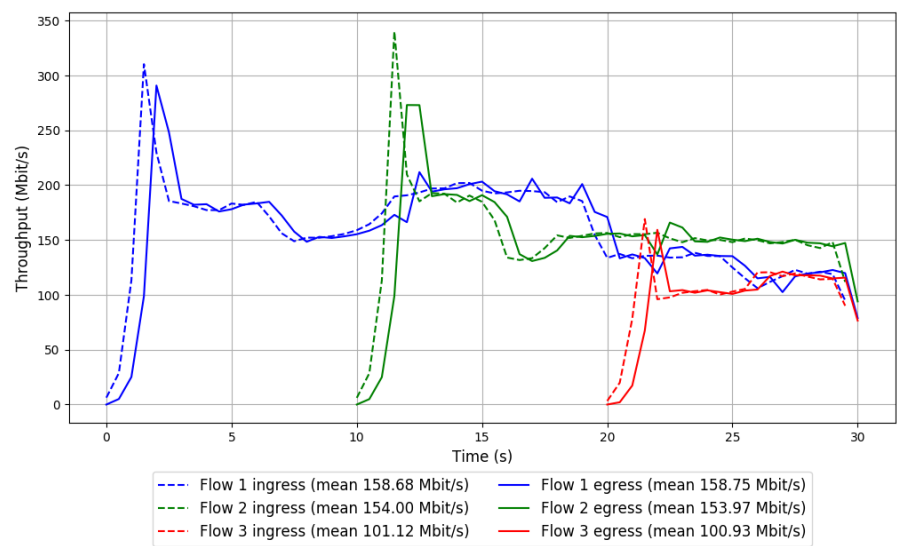


Run 6: Statistics of PCC-Expr

Start at: 2018-06-02 00:05:18
End at: 2018-06-02 00:05:48
Local clock offset: 0.264 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-02 03:26:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.07 Mbit/s
95th percentile per-packet one-way delay: 90.015 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 158.75 Mbit/s
95th percentile per-packet one-way delay: 93.715 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 153.97 Mbit/s
95th percentile per-packet one-way delay: 84.146 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 100.93 Mbit/s
95th percentile per-packet one-way delay: 85.902 ms
Loss rate: 1.24%

Run 6: Report of PCC-Expr — Data Link

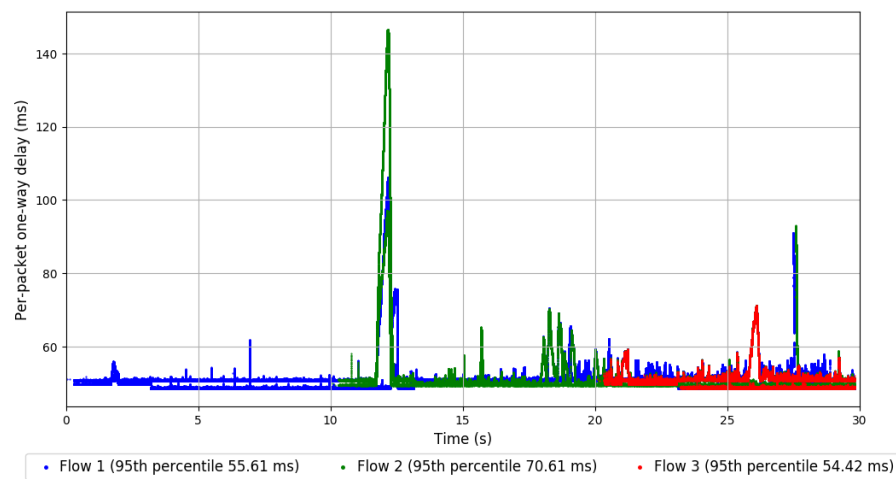
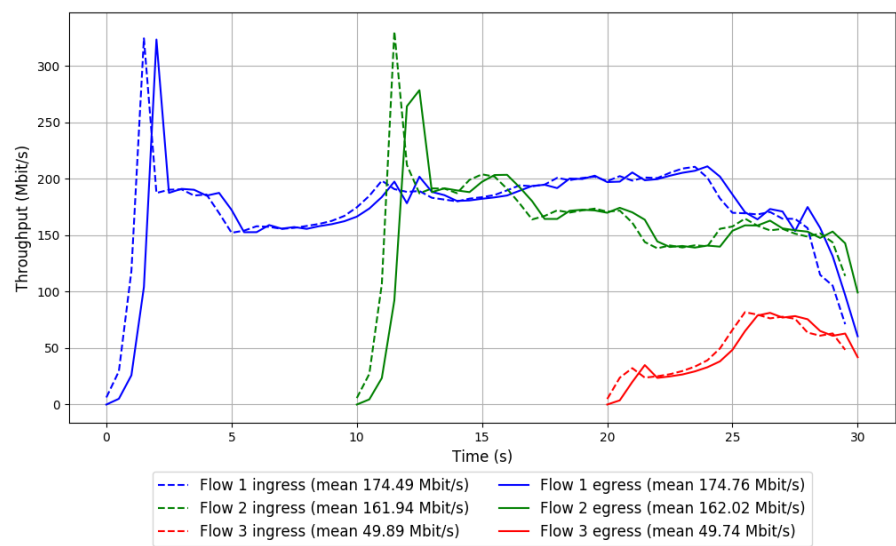


Run 7: Statistics of PCC-Expr

Start at: 2018-06-02 00:27:32
End at: 2018-06-02 00:28:02
Local clock offset: -0.097 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-02 03:26:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 298.56 Mbit/s
95th percentile per-packet one-way delay: 58.696 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 174.76 Mbit/s
95th percentile per-packet one-way delay: 55.614 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 162.02 Mbit/s
95th percentile per-packet one-way delay: 70.612 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 49.74 Mbit/s
95th percentile per-packet one-way delay: 54.416 ms
Loss rate: 1.32%

Run 7: Report of PCC-Expr — Data Link

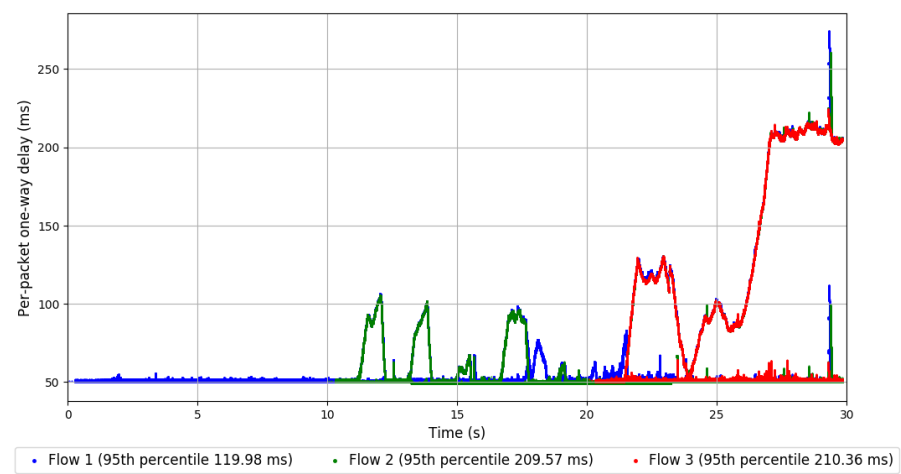
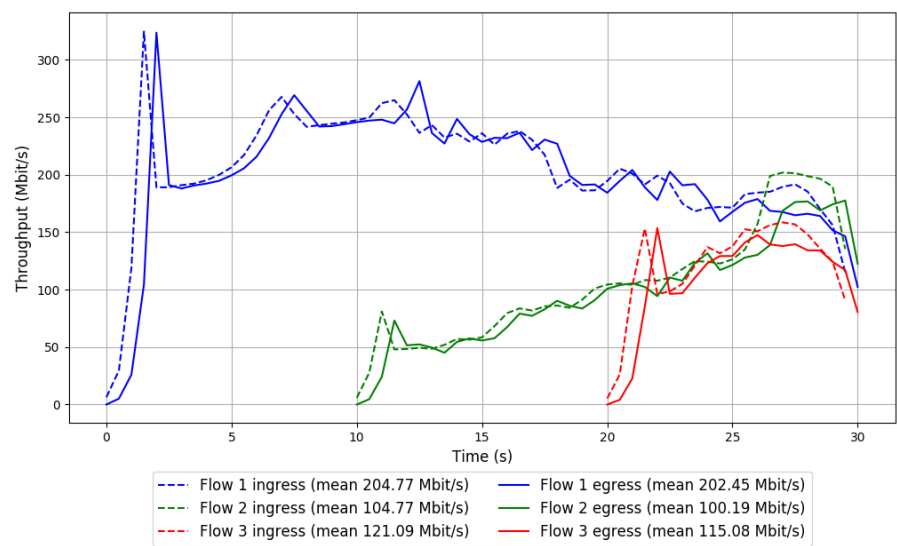


Run 8: Statistics of PCC-Expr

Start at: 2018-06-02 00:49:42
End at: 2018-06-02 00:50:12
Local clock offset: 0.326 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-02 03:29:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.64 Mbit/s
95th percentile per-packet one-way delay: 205.559 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 202.45 Mbit/s
95th percentile per-packet one-way delay: 119.985 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 100.19 Mbit/s
95th percentile per-packet one-way delay: 209.567 ms
Loss rate: 4.84%
-- Flow 3:
Average throughput: 115.08 Mbit/s
95th percentile per-packet one-way delay: 210.357 ms
Loss rate: 5.95%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-02 01:12:06

End at: 2018-06-02 01:12:36

Local clock offset: -0.054 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-02 03:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.58 Mbit/s

95th percentile per-packet one-way delay: 102.350 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 217.14 Mbit/s

95th percentile per-packet one-way delay: 115.469 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 116.85 Mbit/s

95th percentile per-packet one-way delay: 56.757 ms

Loss rate: 0.77%

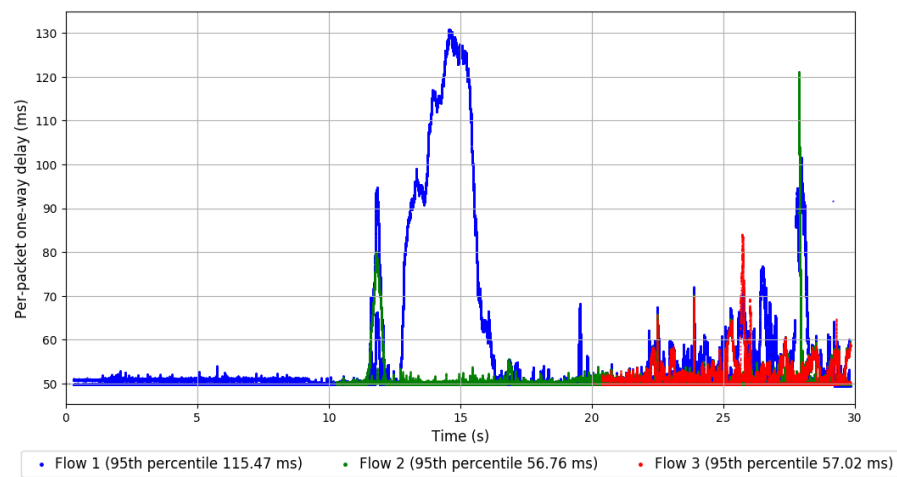
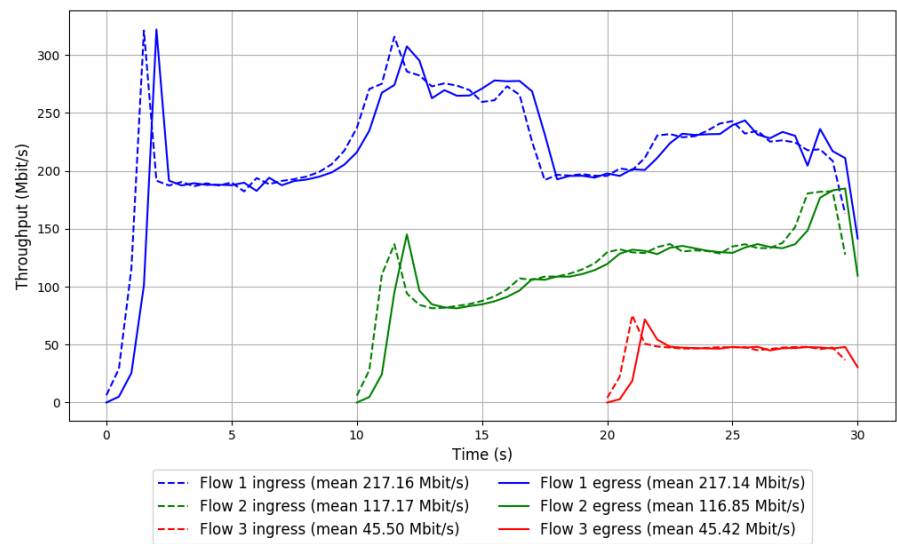
-- Flow 3:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 57.024 ms

Loss rate: 1.19%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-02 01:34:27

End at: 2018-06-02 01:34:57

Local clock offset: -0.487 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-02 03:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.37 Mbit/s

95th percentile per-packet one-way delay: 223.616 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 231.41 Mbit/s

95th percentile per-packet one-way delay: 233.872 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 106.77 Mbit/s

95th percentile per-packet one-way delay: 64.855 ms

Loss rate: 0.53%

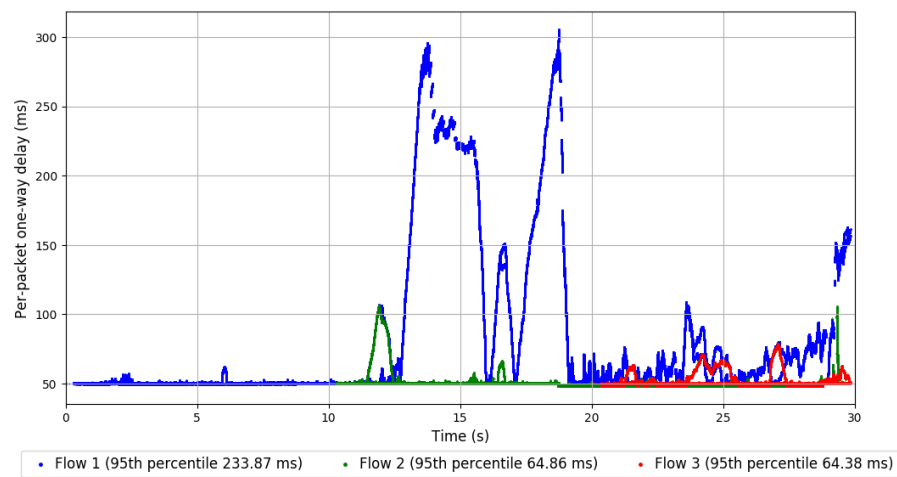
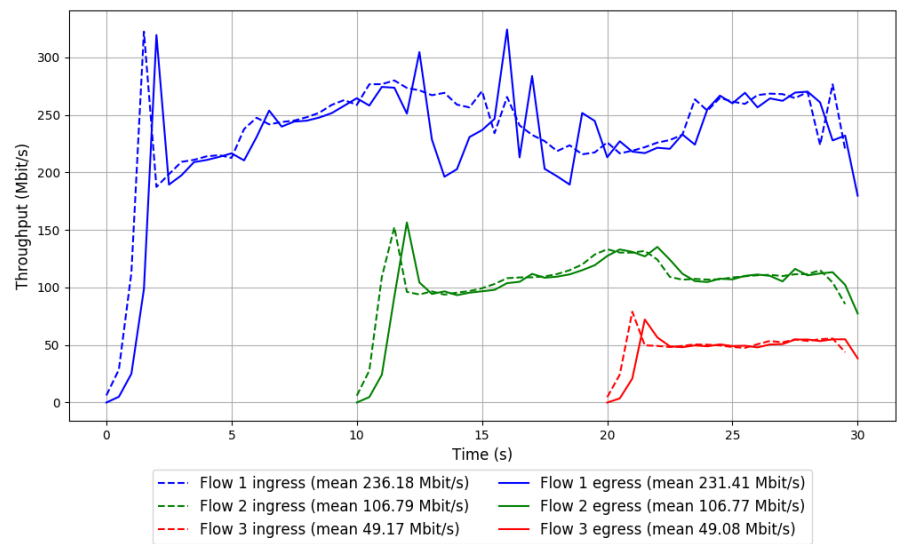
-- Flow 3:

Average throughput: 49.08 Mbit/s

95th percentile per-packet one-way delay: 64.383 ms

Loss rate: 1.22%

Run 10: Report of PCC-Expr — Data Link

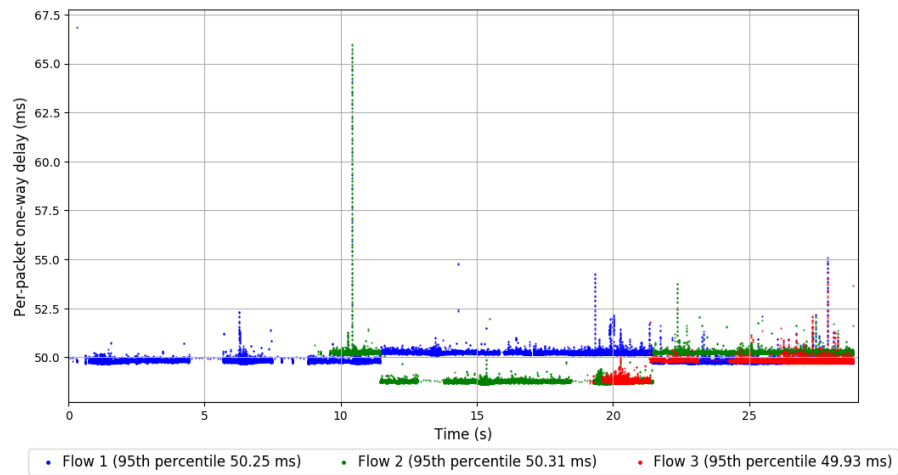
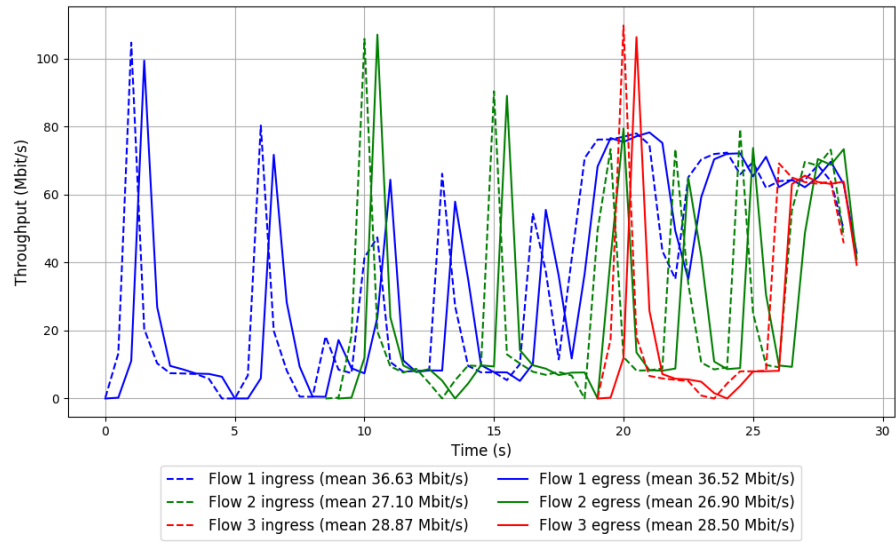


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-01 22:18:23
End at: 2018-06-01 22:18:53
Local clock offset: -0.109 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.67 Mbit/s
95th percentile per-packet one-way delay: 50.275 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 36.52 Mbit/s
95th percentile per-packet one-way delay: 50.252 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 26.90 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 49.930 ms
Loss rate: 2.25%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-01 22:40:51

End at: 2018-06-01 22:41:21

Local clock offset: 0.206 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-02 03:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 51.239 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 51.232 ms

Loss rate: 0.49%

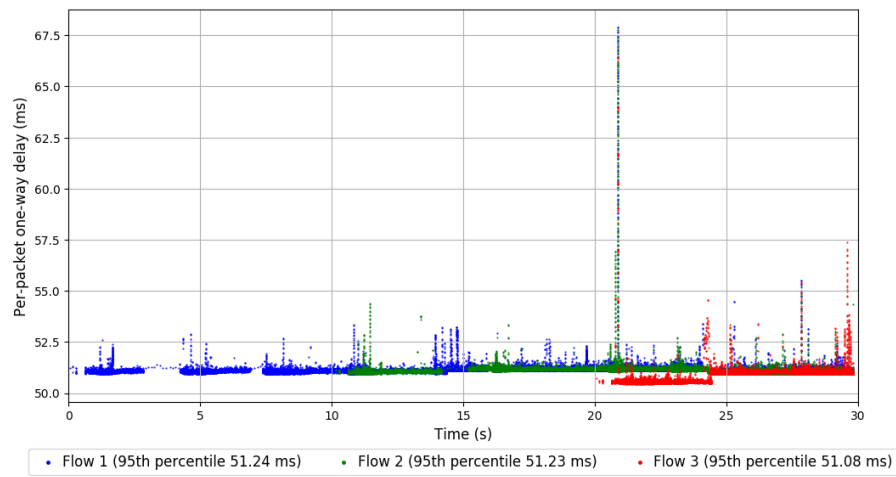
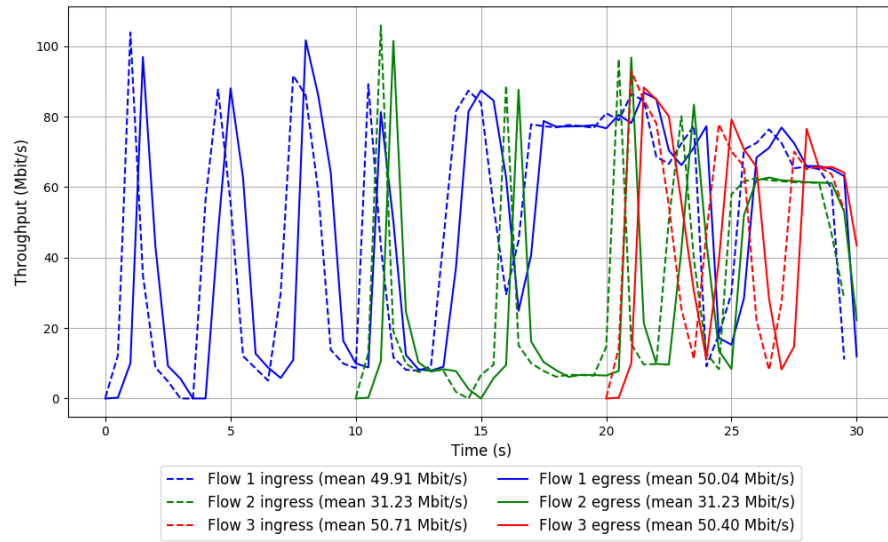
-- Flow 3:

Average throughput: 50.40 Mbit/s

95th percentile per-packet one-way delay: 51.079 ms

Loss rate: 1.63%

Run 2: Report of QUIC Cubic — Data Link

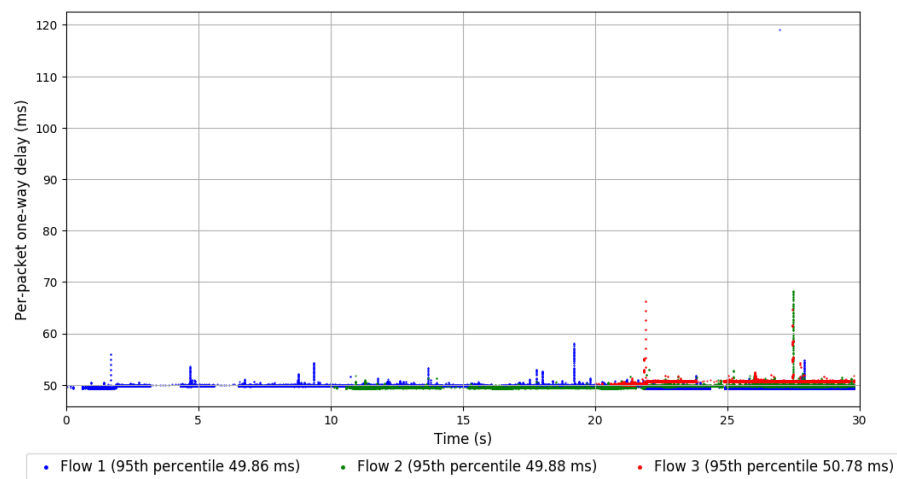
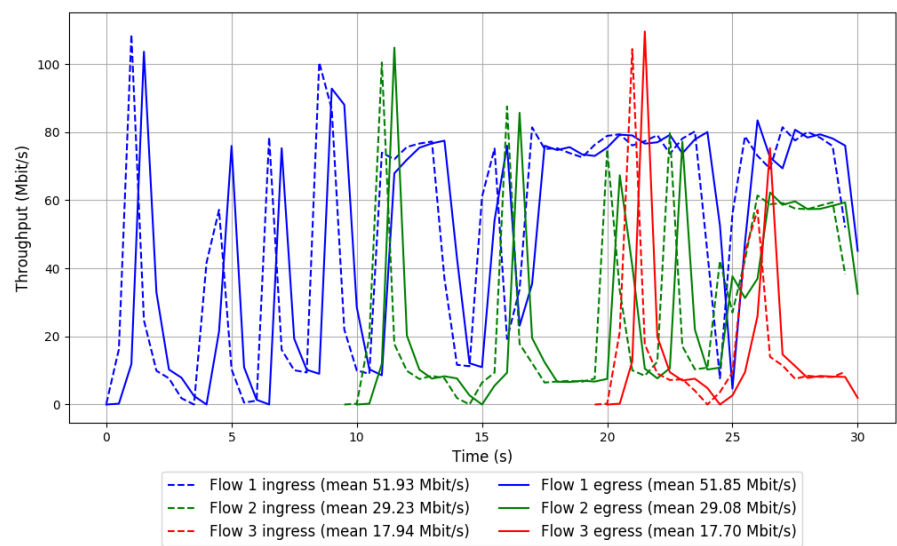


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-01 23:03:14
End at: 2018-06-01 23:03:44
Local clock offset: -0.137 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 49.859 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 49.878 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 50.776 ms
Loss rate: 2.39%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-01 23:25:15

End at: 2018-06-01 23:25:45

Local clock offset: -0.074 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-02 03:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.62 Mbit/s

95th percentile per-packet one-way delay: 50.708 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 50.236 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 33.66 Mbit/s

95th percentile per-packet one-way delay: 50.790 ms

Loss rate: 0.99%

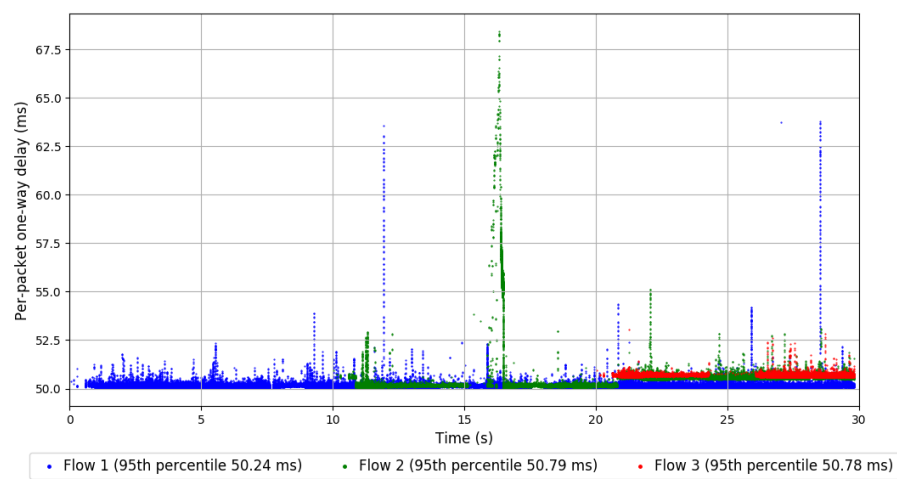
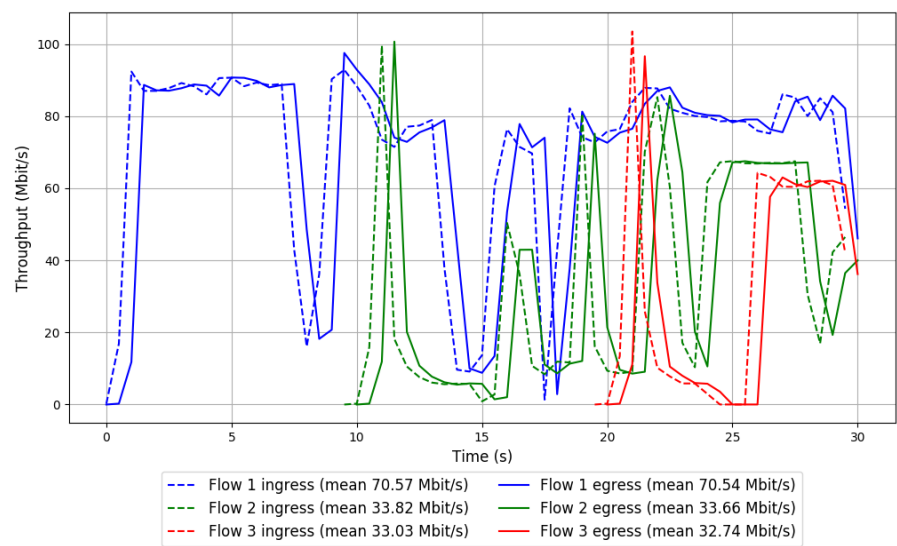
-- Flow 3:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 50.785 ms

Loss rate: 1.87%

Run 4: Report of QUIC Cubic — Data Link

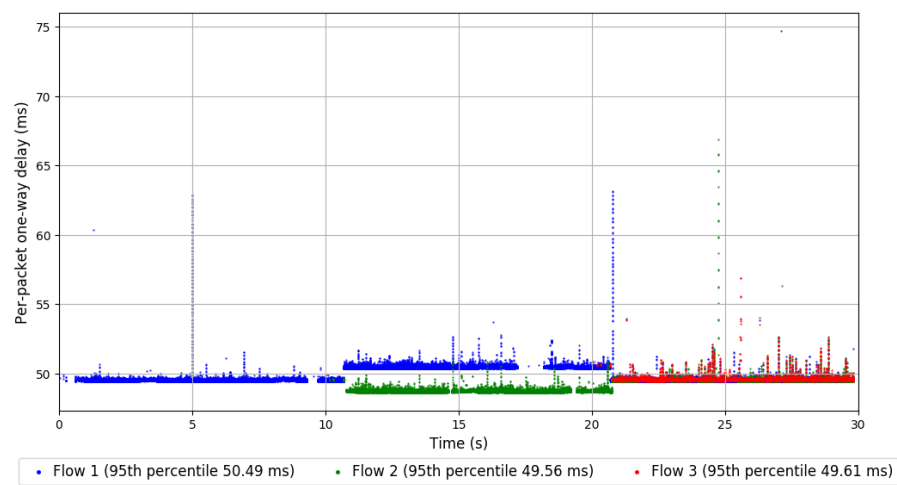
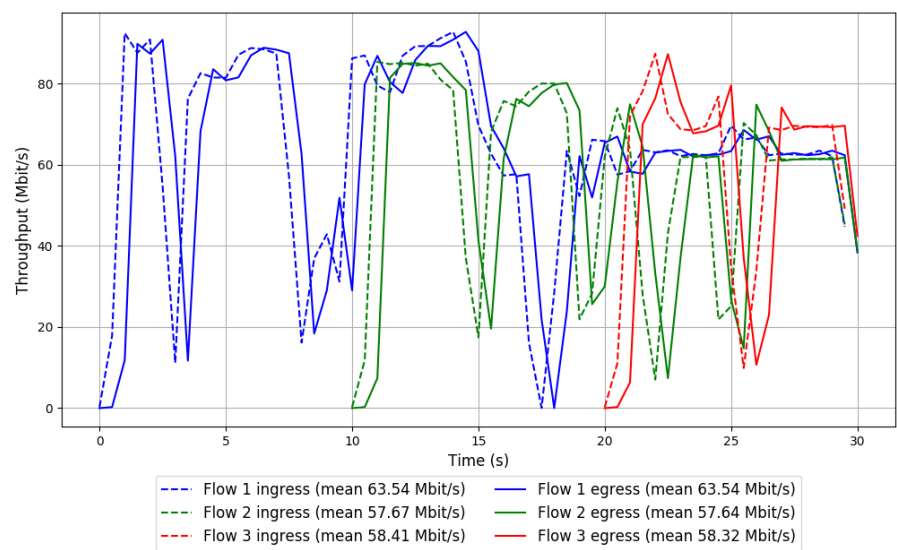


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-01 23:47:35
End at: 2018-06-01 23:48:05
Local clock offset: -0.1 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 120.85 Mbit/s
95th percentile per-packet one-way delay: 50.460 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 63.54 Mbit/s
95th percentile per-packet one-way delay: 50.489 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 57.64 Mbit/s
95th percentile per-packet one-way delay: 49.564 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 58.32 Mbit/s
95th percentile per-packet one-way delay: 49.611 ms
Loss rate: 1.19%

Run 5: Report of QUIC Cubic — Data Link

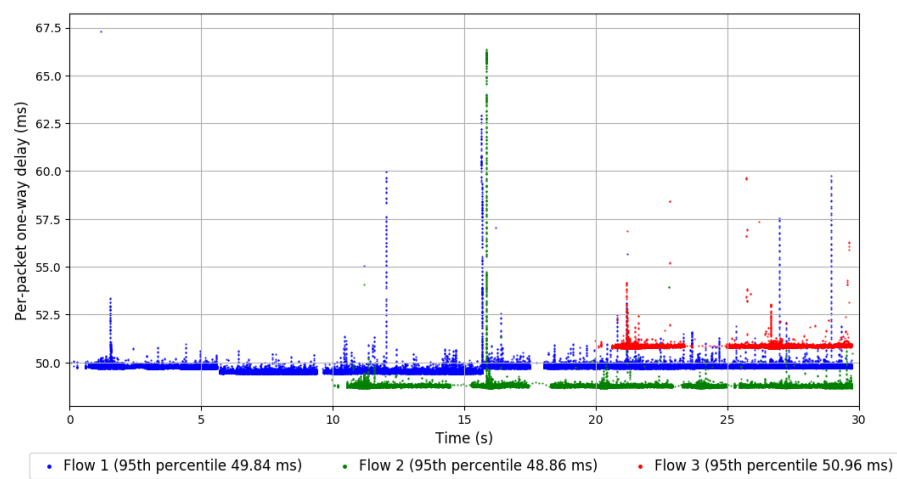
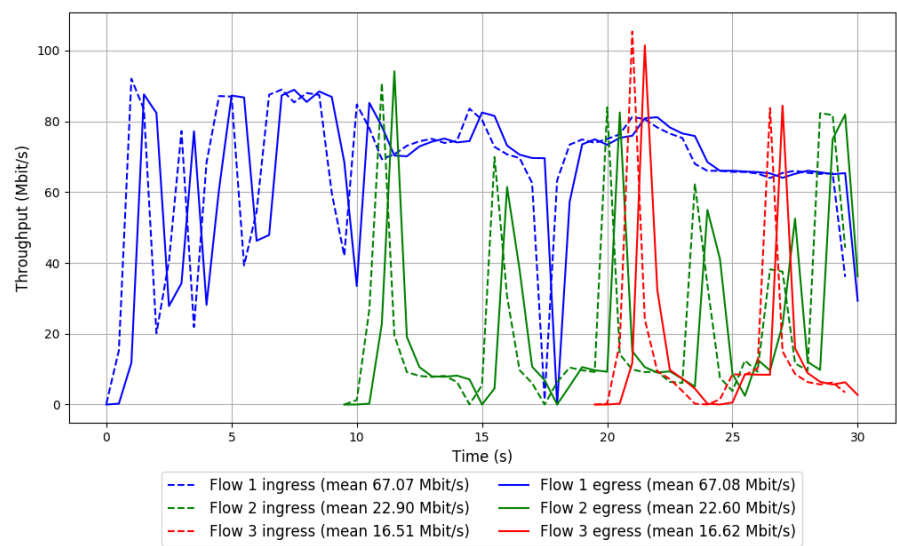


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-02 00:09:50
End at: 2018-06-02 00:10:20
Local clock offset: -0.109 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 50.799 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 67.08 Mbit/s
95th percentile per-packet one-way delay: 49.837 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 22.60 Mbit/s
95th percentile per-packet one-way delay: 48.858 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 16.62 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 0.40%

Run 6: Report of QUIC Cubic — Data Link

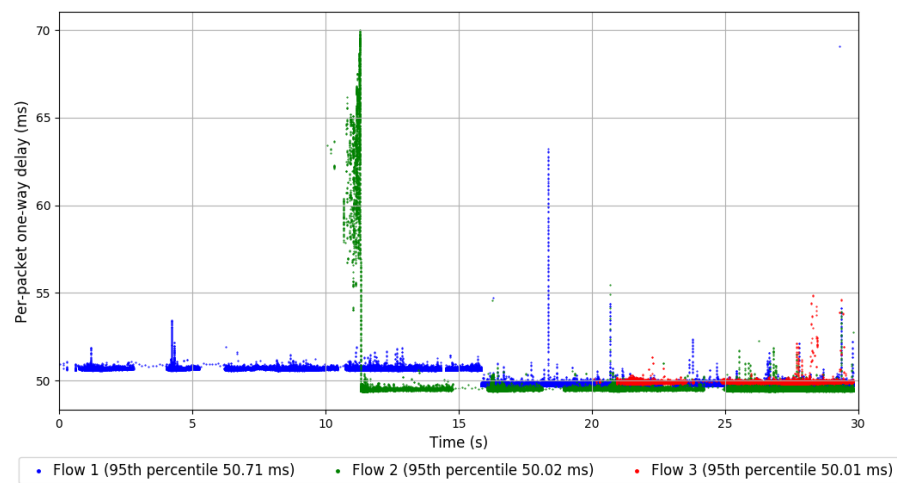
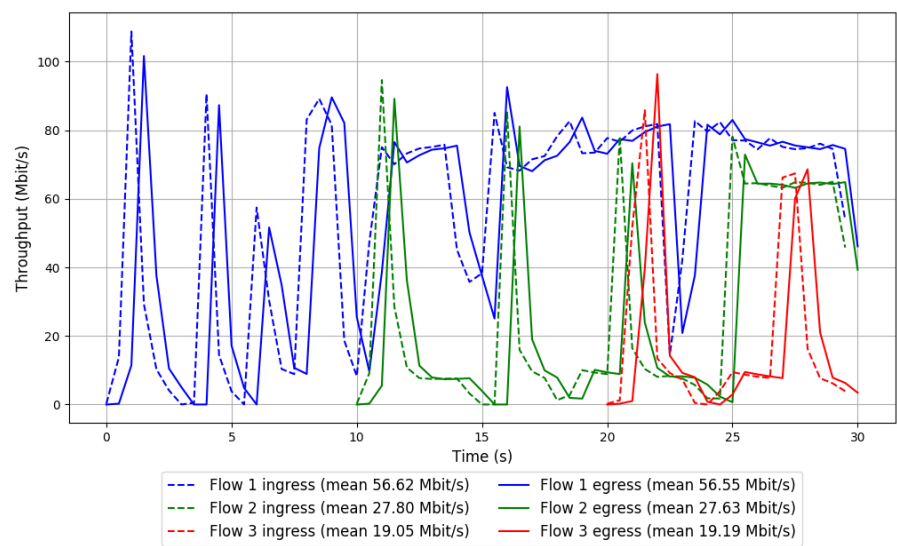


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-02 00:32:00
End at: 2018-06-02 00:32:30
Local clock offset: -0.079 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.15 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 56.55 Mbit/s
95th percentile per-packet one-way delay: 50.710 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 50.023 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 19.19 Mbit/s
95th percentile per-packet one-way delay: 50.011 ms
Loss rate: 0.28%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-02 00:54:15

End at: 2018-06-02 00:54:45

Local clock offset: -0.021 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-06-02 03:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 50.794 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 50.830 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 49.980 ms

Loss rate: 0.20%

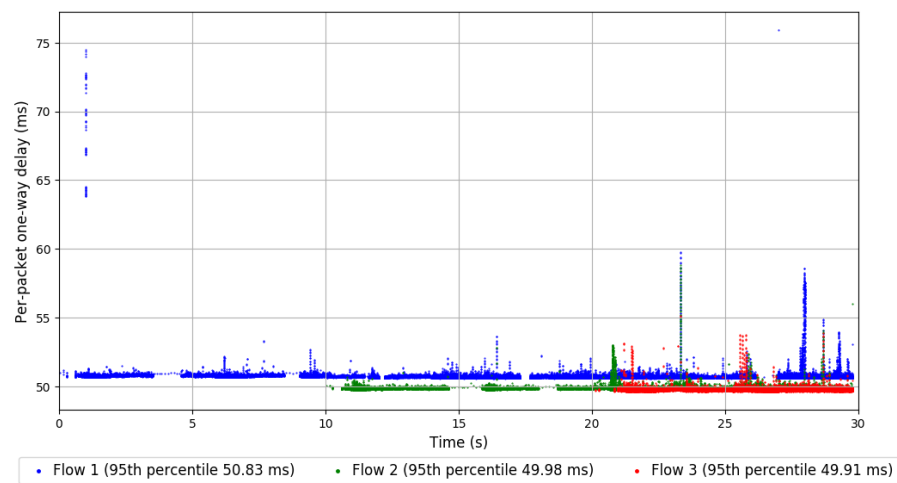
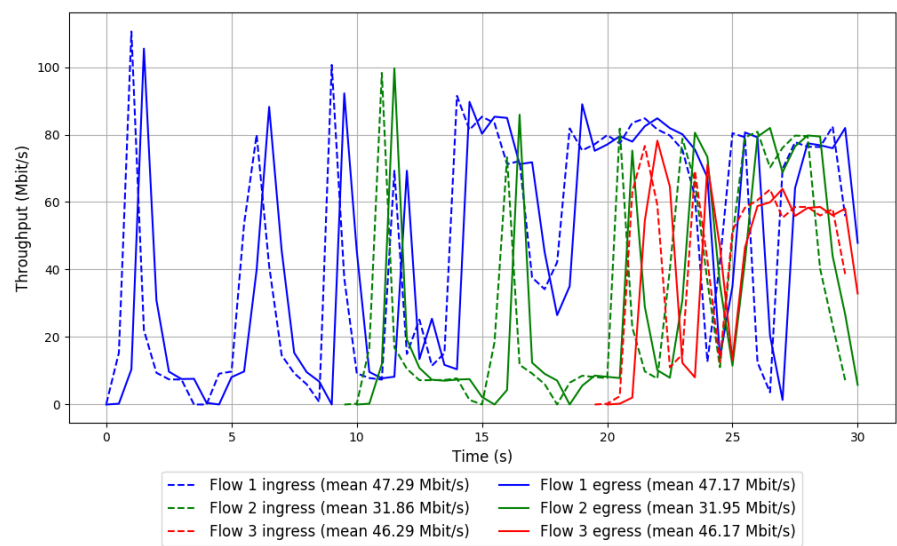
-- Flow 3:

Average throughput: 46.17 Mbit/s

95th percentile per-packet one-way delay: 49.905 ms

Loss rate: 1.26%

Run 8: Report of QUIC Cubic — Data Link

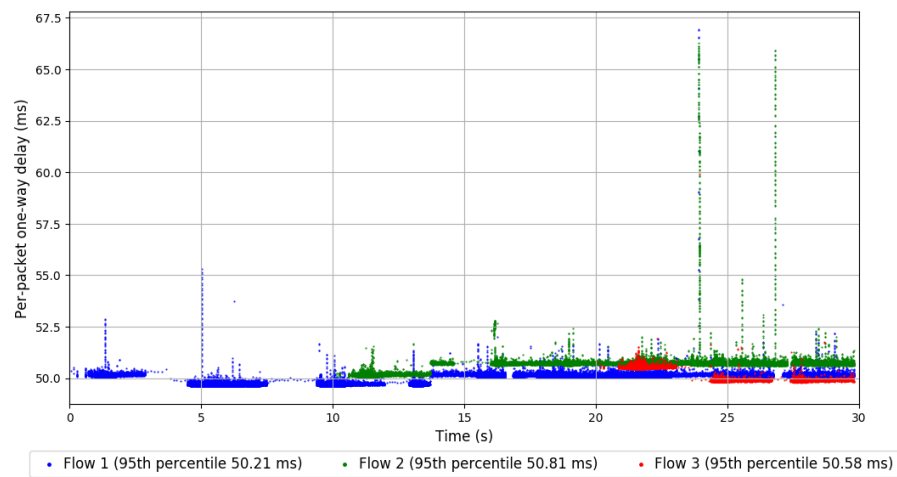
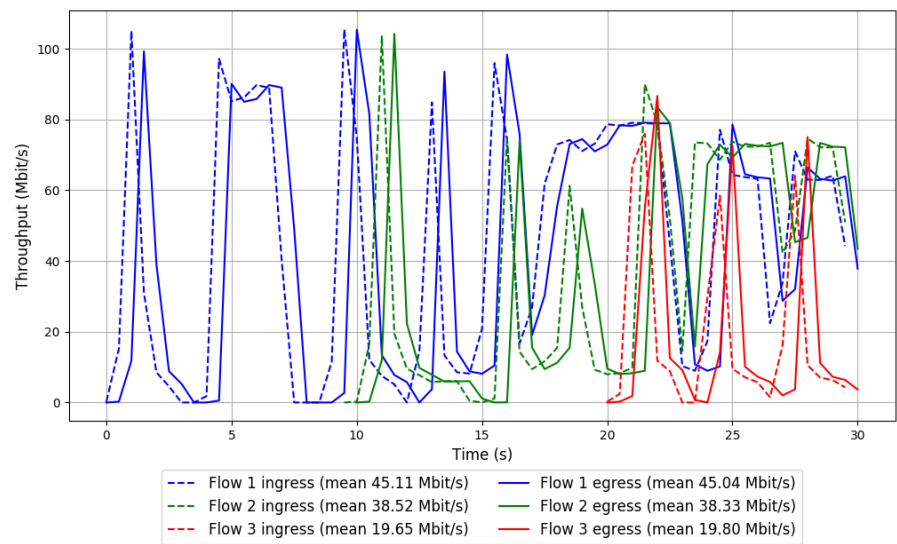


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-02 01:16:42
End at: 2018-06-02 01:17:12
Local clock offset: -0.058 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 50.747 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 45.04 Mbit/s
95th percentile per-packet one-way delay: 50.209 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.33 Mbit/s
95th percentile per-packet one-way delay: 50.810 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 50.584 ms
Loss rate: 0.31%

Run 9: Report of QUIC Cubic — Data Link

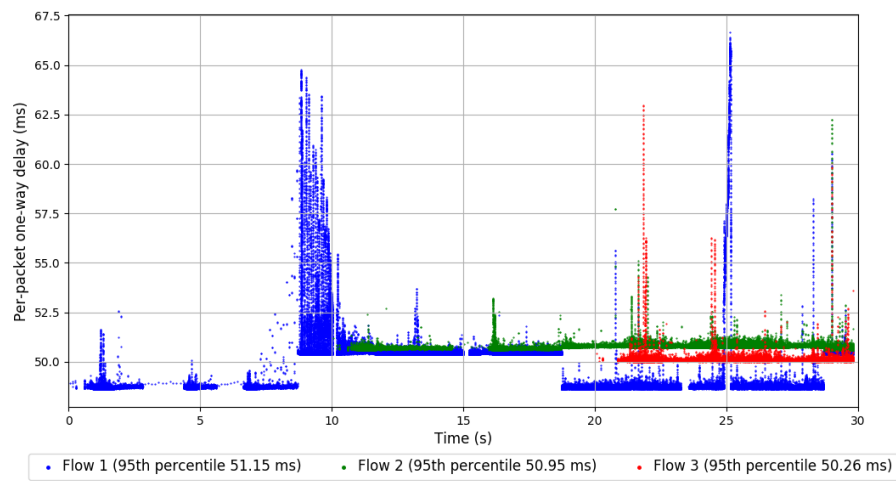
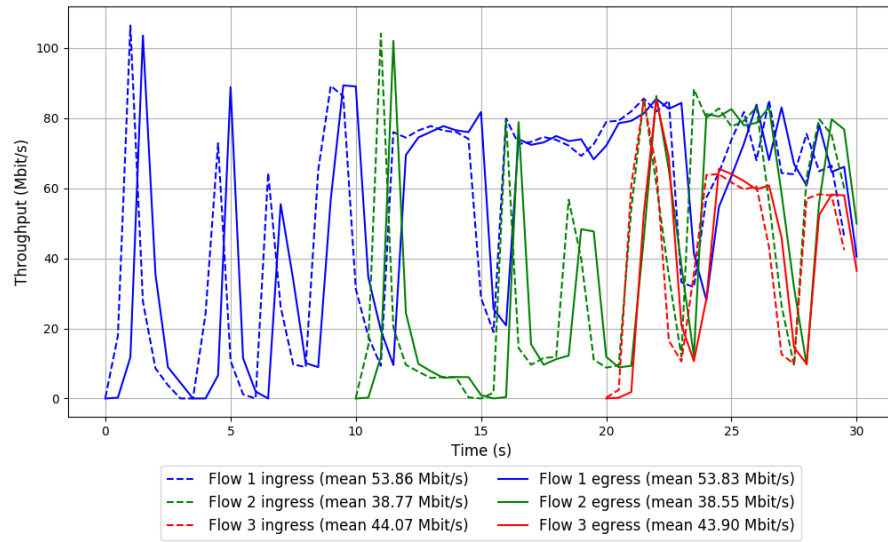


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-02 01:38:57
End at: 2018-06-02 01:39:27
Local clock offset: -0.137 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 50.930 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 51.152 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 43.90 Mbit/s
95th percentile per-packet one-way delay: 50.263 ms
Loss rate: 1.36%

Run 10: Report of QUIC Cubic — Data Link

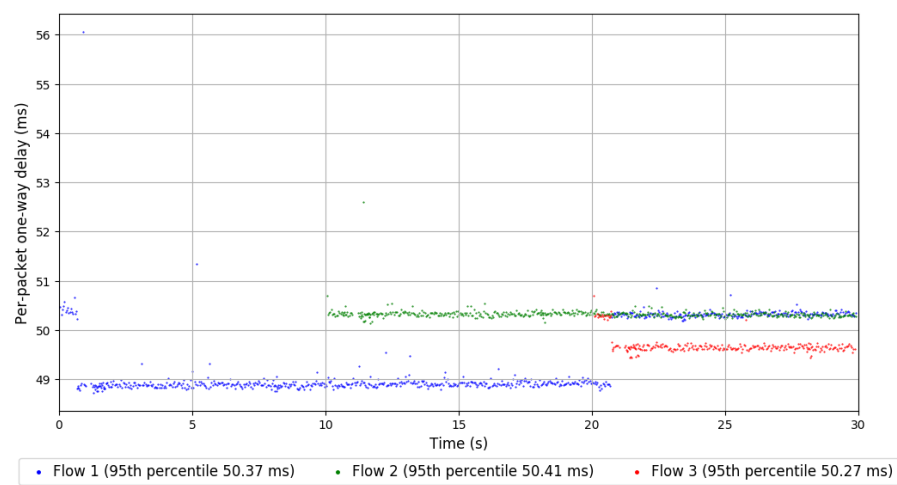
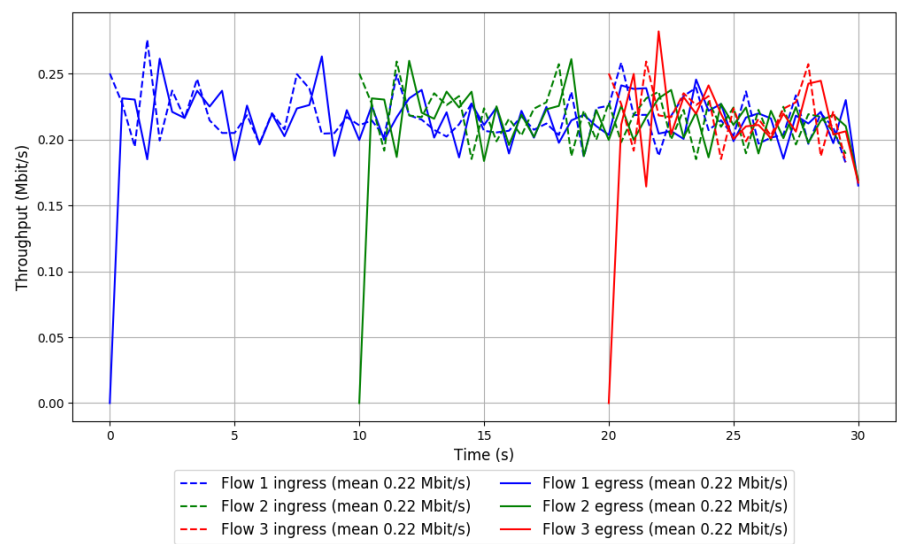


```
Run 1: Statistics of SCReAM

Start at: 2018-06-01 22:10:05
End at: 2018-06-01 22:10:35
Local clock offset: -0.152 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-02 03:34:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.381 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.373 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.412 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.273 ms
Loss rate: 1.09%
```

Run 1: Report of SReAM — Data Link

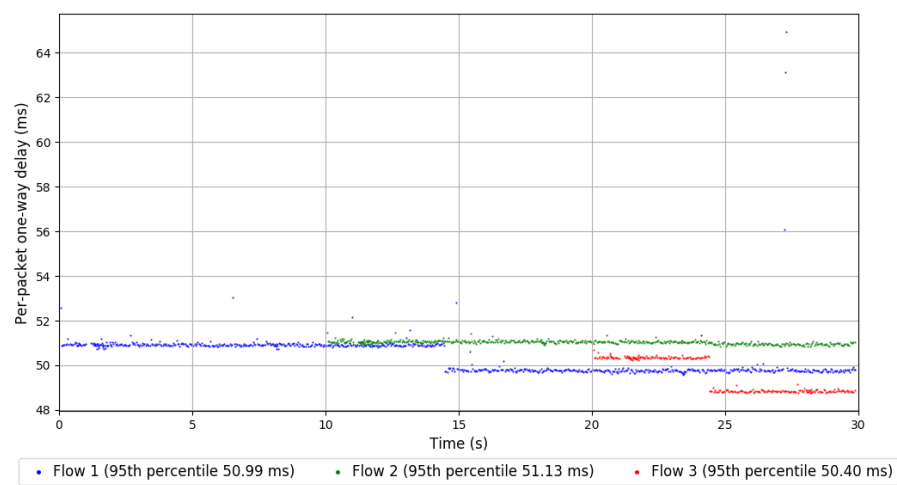
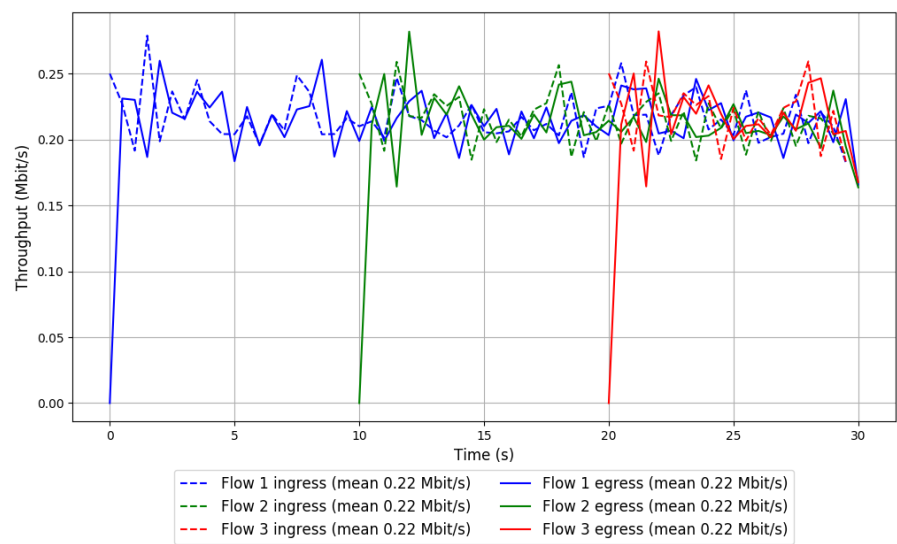


```
Run 2: Statistics of SReAM

Start at: 2018-06-01 22:32:31
End at: 2018-06-01 22:33:01
Local clock offset: -0.106 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-06-02 03:34:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.126 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.398 ms
Loss rate: 1.09%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-01 22:54:55

End at: 2018-06-01 22:55:25

Local clock offset: 0.288 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-02 03:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 51.384 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.231 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.430 ms

Loss rate: 0.62%

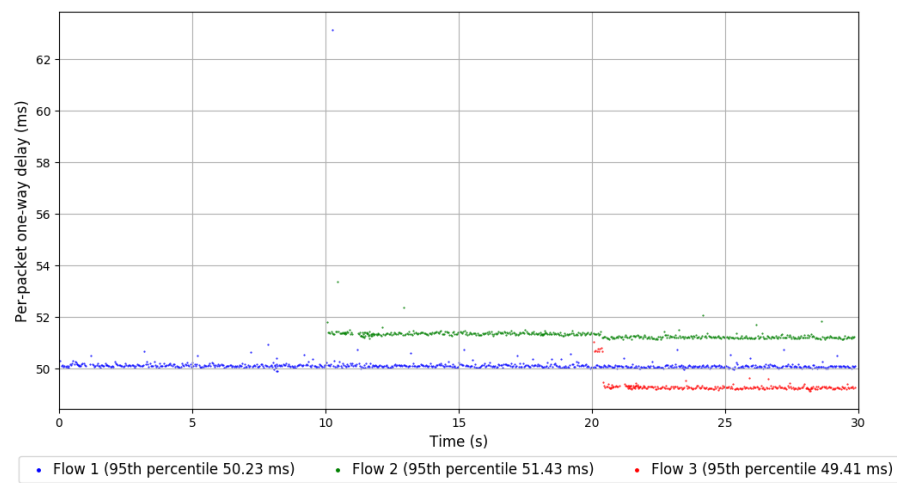
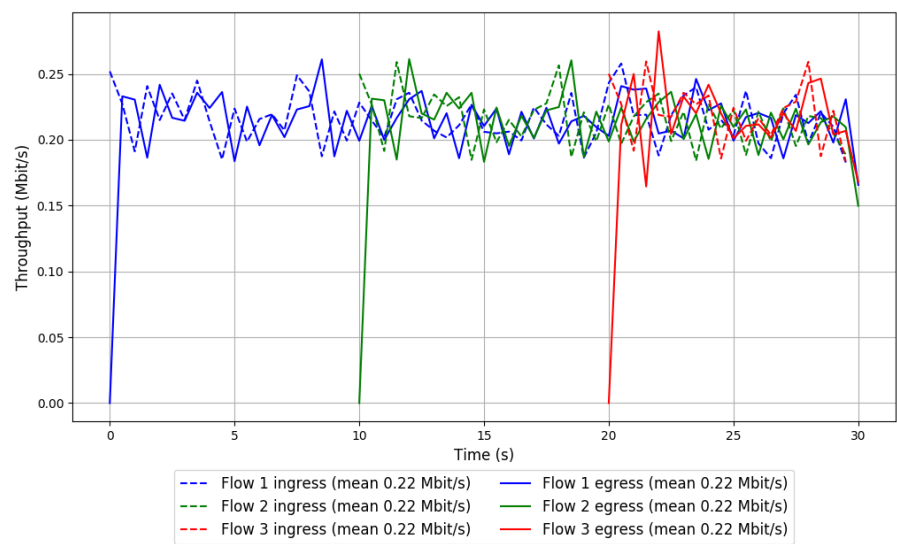
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.414 ms

Loss rate: 1.09%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-06-01 23:17:15

End at: 2018-06-01 23:17:45

Local clock offset: -0.116 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-06-02 03:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.882 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.879 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.821 ms

Loss rate: 0.61%

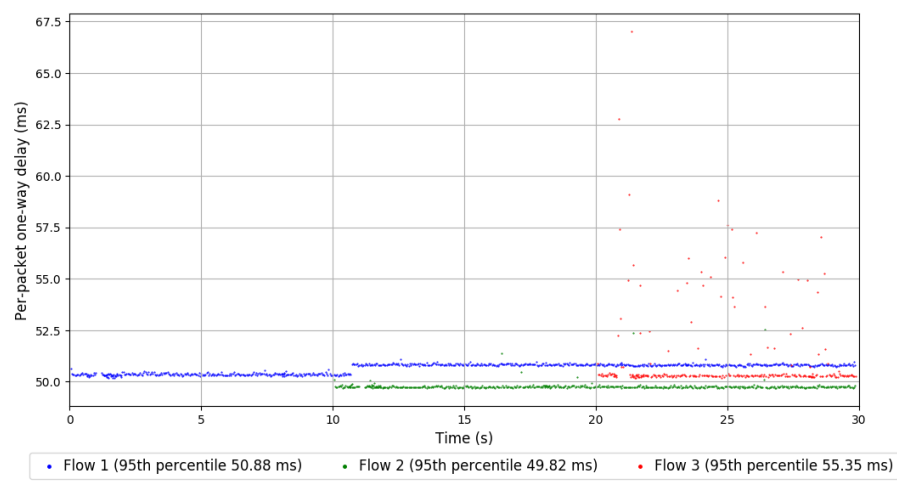
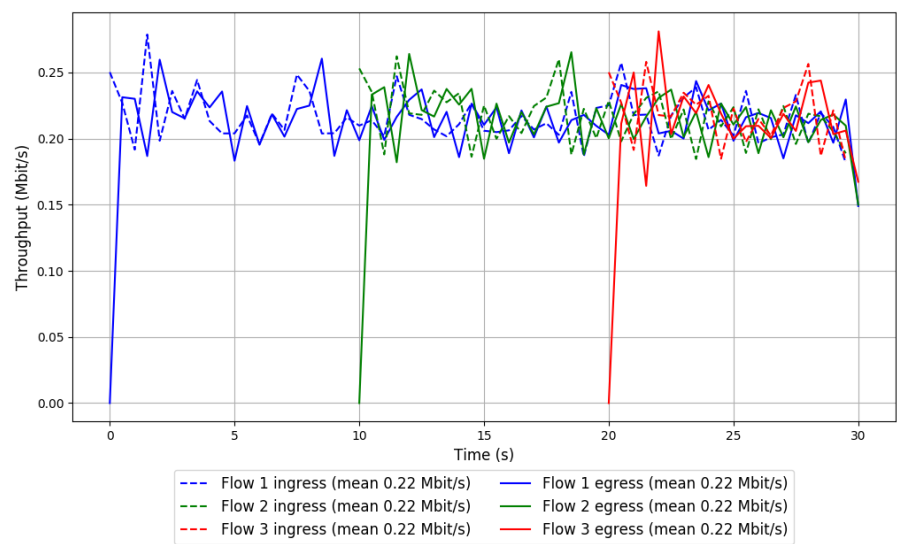
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 55.349 ms

Loss rate: 1.09%

Run 4: Report of SReAM — Data Link

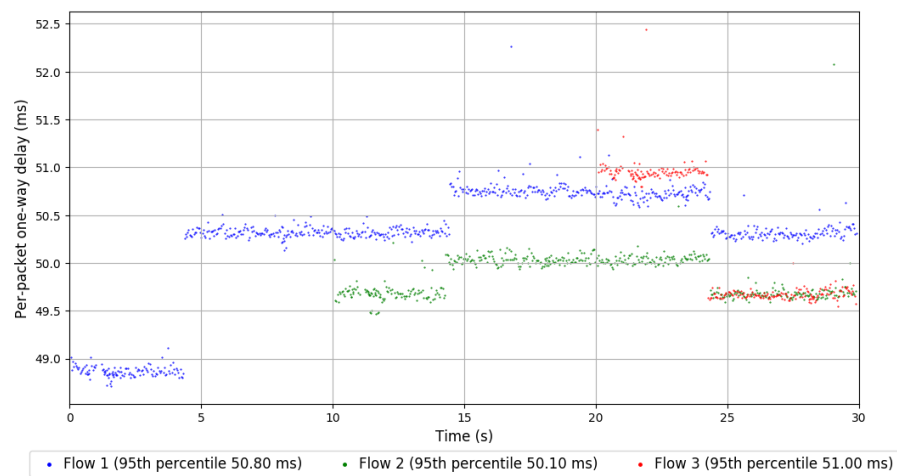
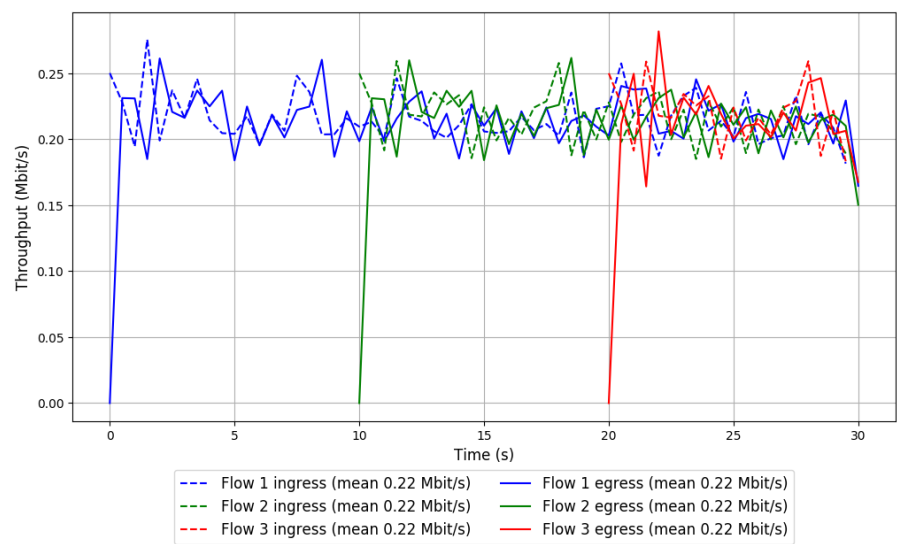


Run 5: Statistics of SReAM

Start at: 2018-06-01 23:39:21
End at: 2018-06-01 23:39:51
Local clock offset: -0.133 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.937 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.101 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.004 ms
Loss rate: 1.09%

Run 5: Report of SReAM — Data Link

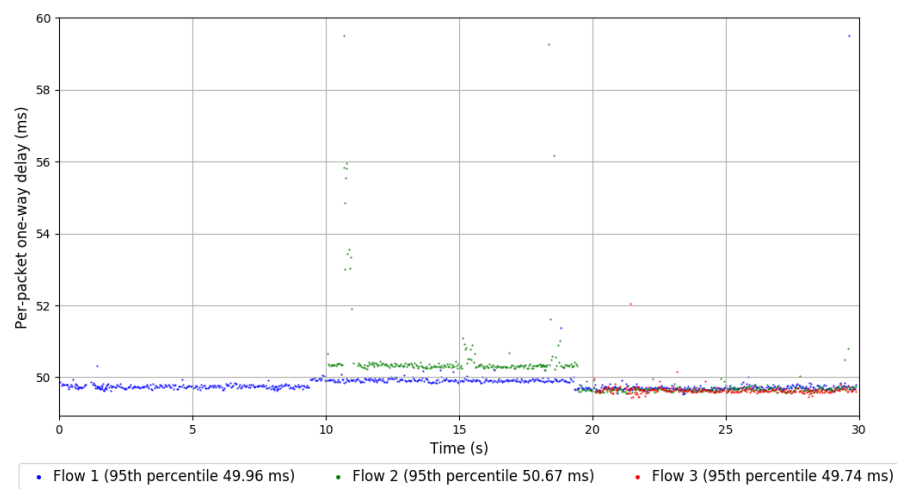
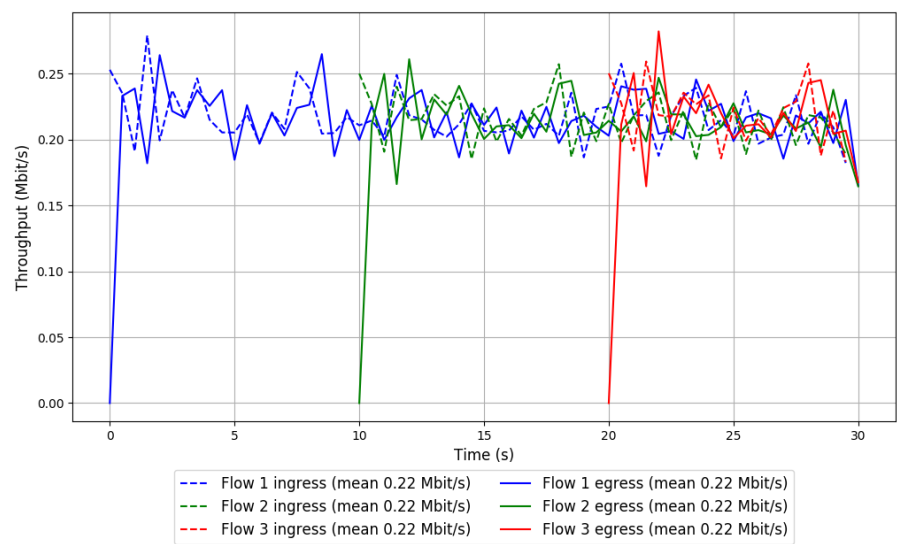


Run 6: Statistics of SReAM

Start at: 2018-06-02 00:01:36
End at: 2018-06-02 00:02:06
Local clock offset: -0.131 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.362 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.963 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.668 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.738 ms
Loss rate: 1.09%

Run 6: Report of SReAM — Data Link

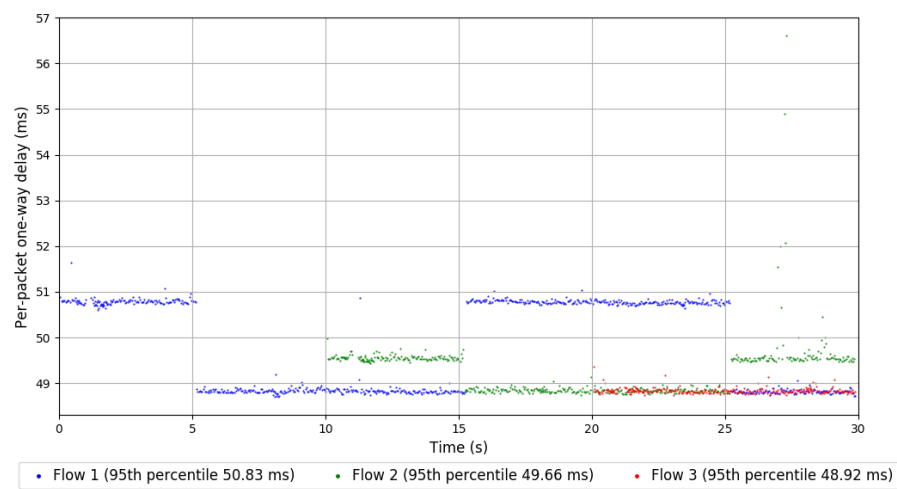
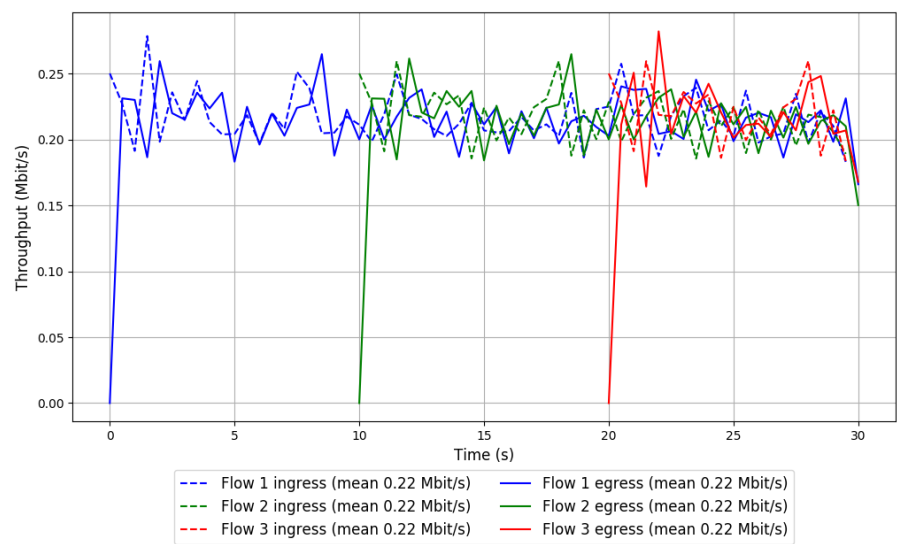


Run 7: Statistics of SReAM

Start at: 2018-06-02 00:23:50
End at: 2018-06-02 00:24:20
Local clock offset: -0.161 ms
Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-02 03:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.811 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.830 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.659 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.916 ms
Loss rate: 1.09%

Run 7: Report of SReAM — Data Link

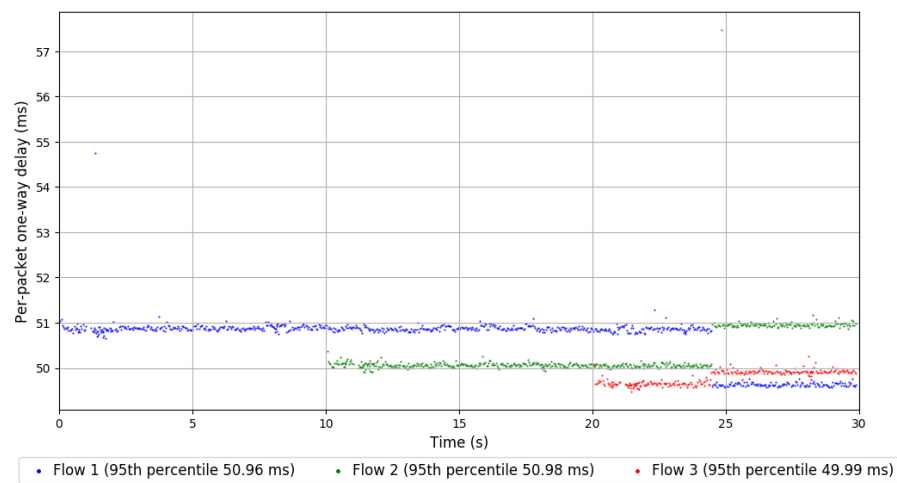
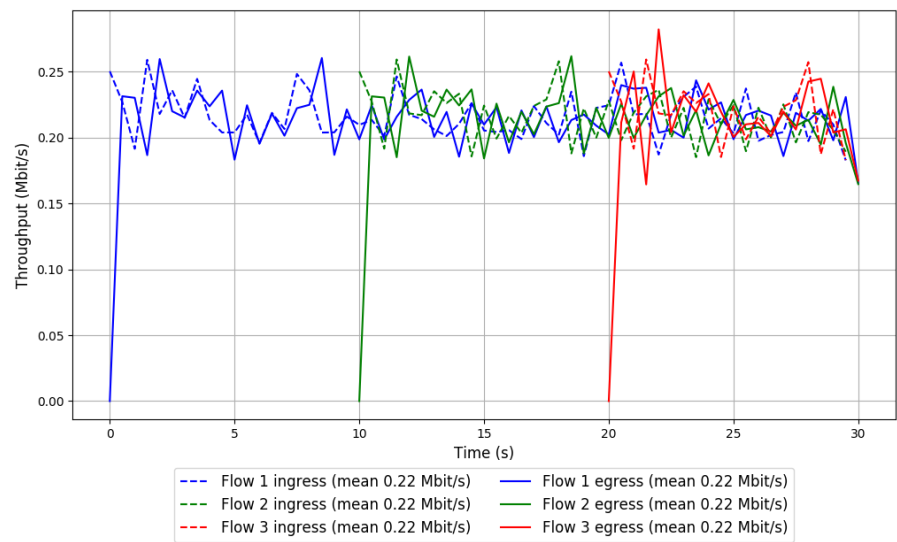


Run 8: Statistics of SReAM

Start at: 2018-06-02 00:46:01
End at: 2018-06-02 00:46:31
Local clock offset: -0.038 ms
Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.964 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.986 ms
Loss rate: 1.09%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-02 01:08:24

End at: 2018-06-02 01:08:54

Local clock offset: -0.035 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-06-02 03:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.695 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.875 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.742 ms

Loss rate: 0.62%

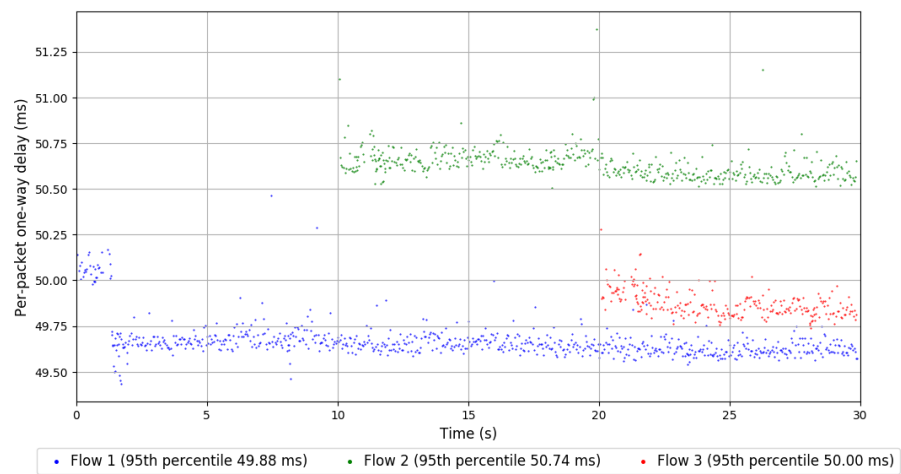
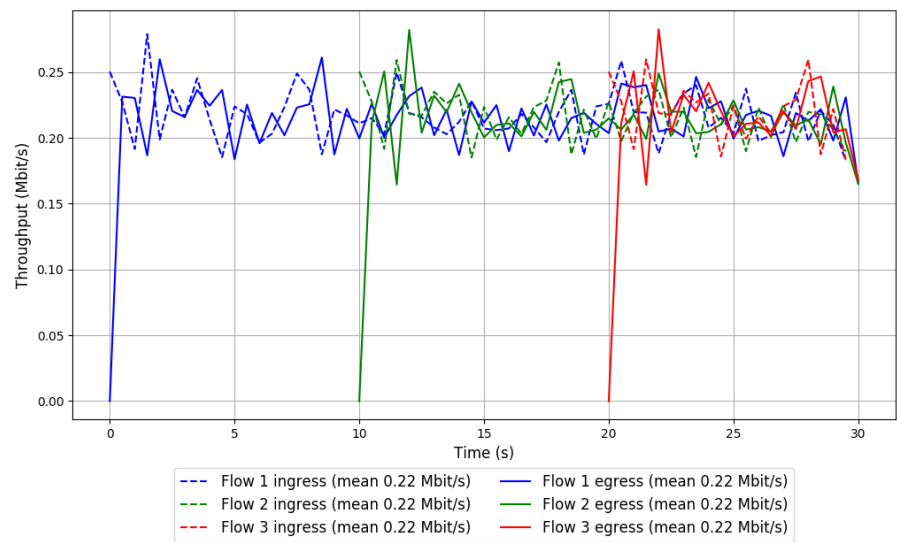
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.000 ms

Loss rate: 1.09%

Run 9: Report of SReAM — Data Link

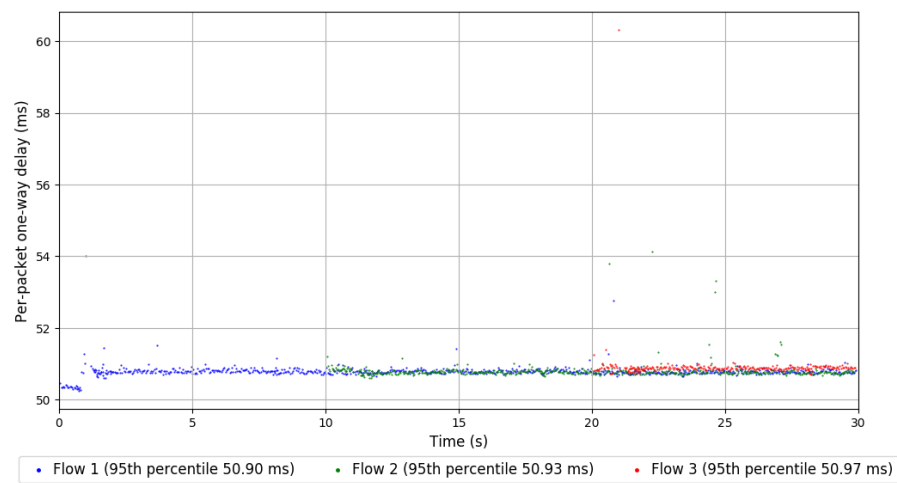
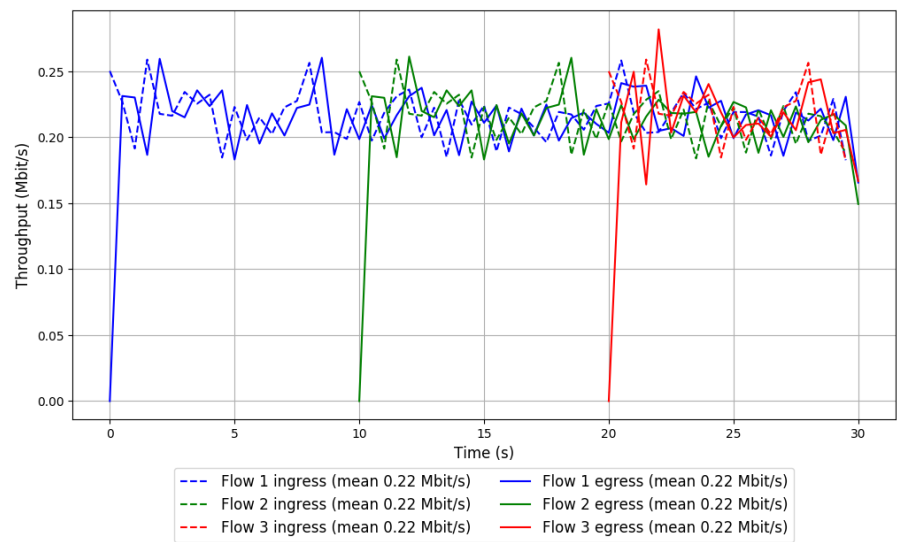


Run 10: Statistics of SReAM

Start at: 2018-06-02 01:30:45
End at: 2018-06-02 01:31:15
Local clock offset: -0.13 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.941 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.895 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.933 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.968 ms
Loss rate: 1.09%

Run 10: Report of SCReAM — Data Link

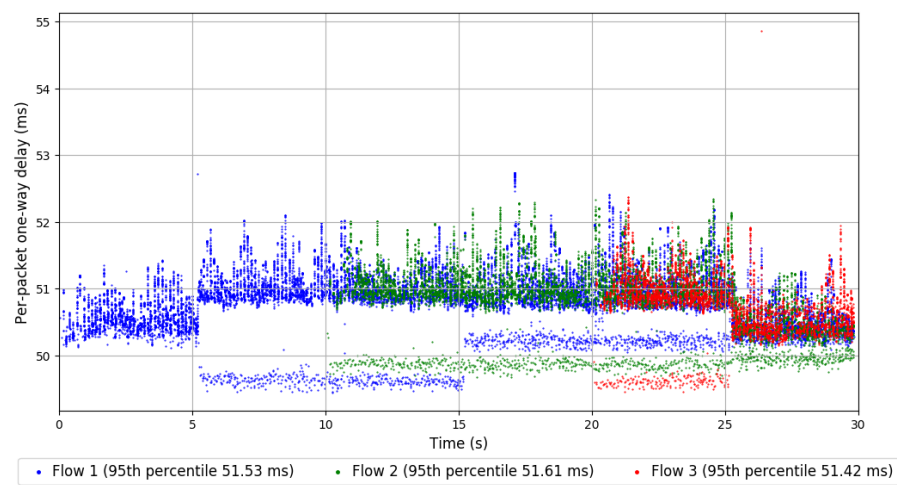
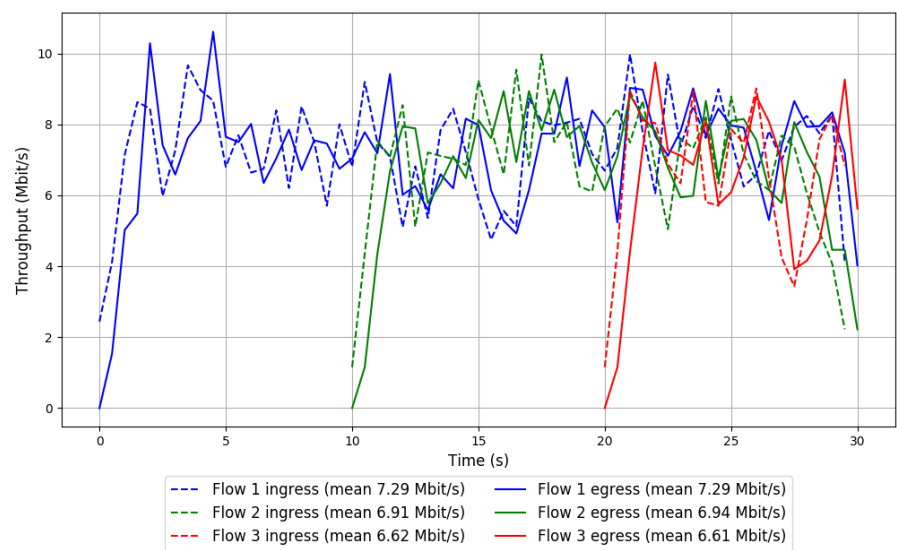


Run 1: Statistics of Sprout

Start at: 2018-06-01 22:06:10
End at: 2018-06-01 22:06:40
Local clock offset: -0.125 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.06 Mbit/s
95th percentile per-packet one-way delay: 51.547 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 51.528 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 51.610 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 51.422 ms
Loss rate: 1.41%

Run 1: Report of Sprout — Data Link

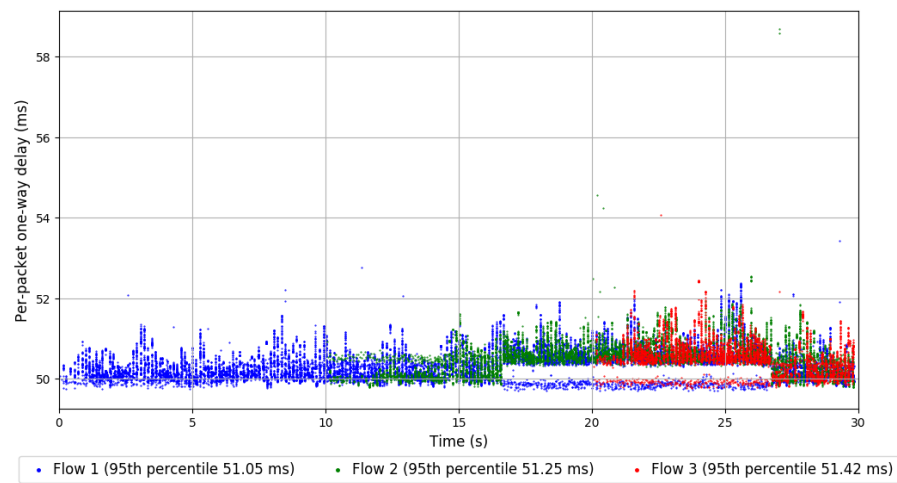
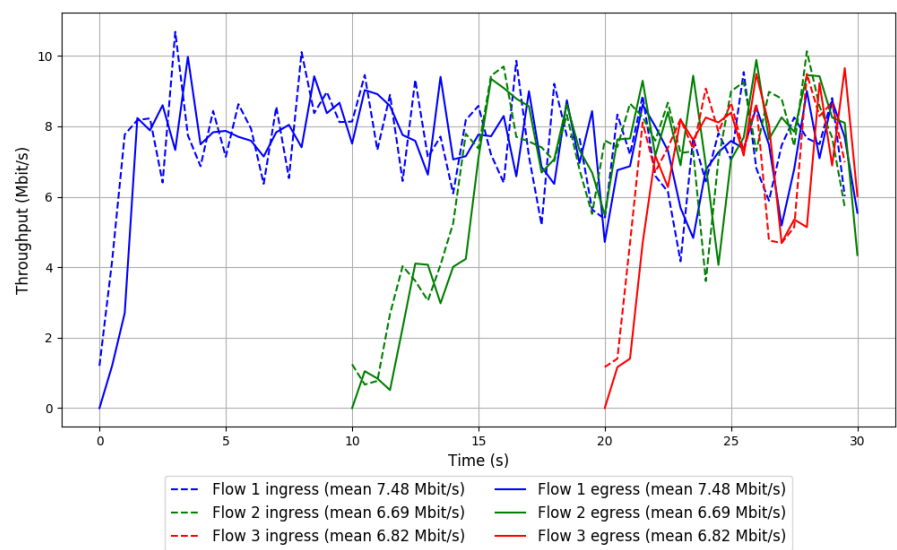


Run 2: Statistics of Sprout

Start at: 2018-06-01 22:28:39
End at: 2018-06-01 22:29:09
Local clock offset: -0.528 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 51.188 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 51.048 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 51.247 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 51.421 ms
Loss rate: 1.22%

Run 2: Report of Sprout — Data Link

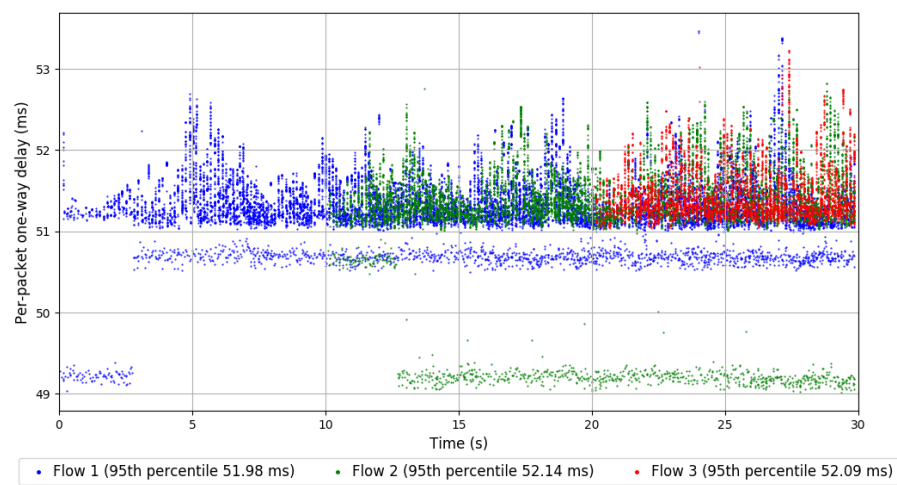
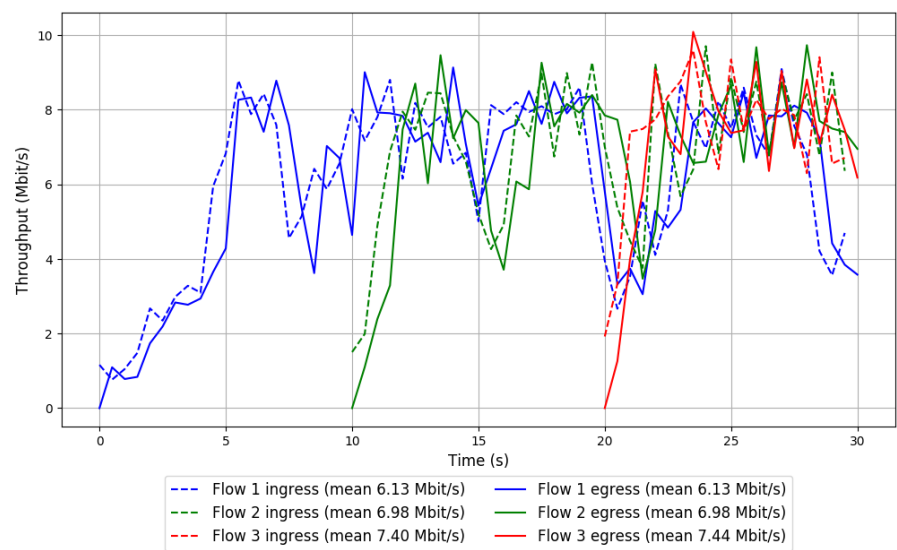


Run 3: Statistics of Sprout

Start at: 2018-06-01 22:51:03
End at: 2018-06-01 22:51:33
Local clock offset: 0.195 ms
Remote clock offset: -0.027 ms

```
# Below is generated by plot.py at 2018-06-02 03:34:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.21 Mbit/s
95th percentile per-packet one-way delay: 52.067 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 51.981 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 52.143 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 52.095 ms
Loss rate: 0.43%
```

Run 3: Report of Sprout — Data Link

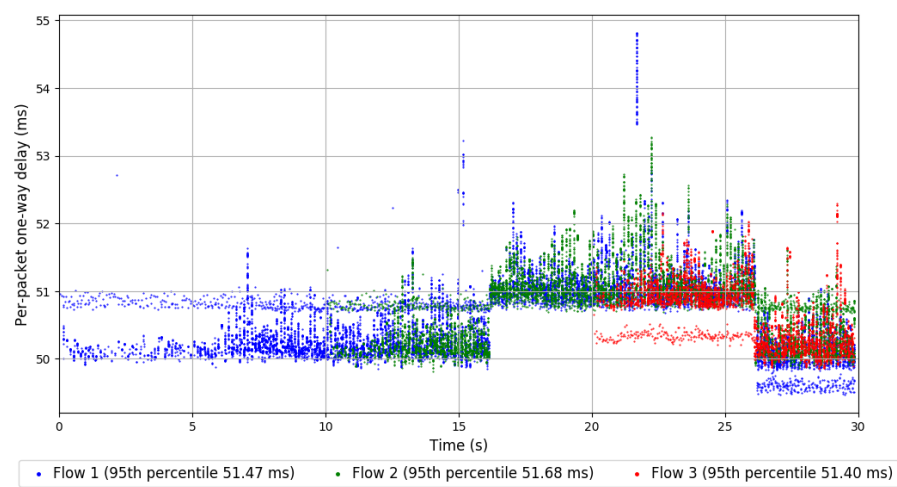
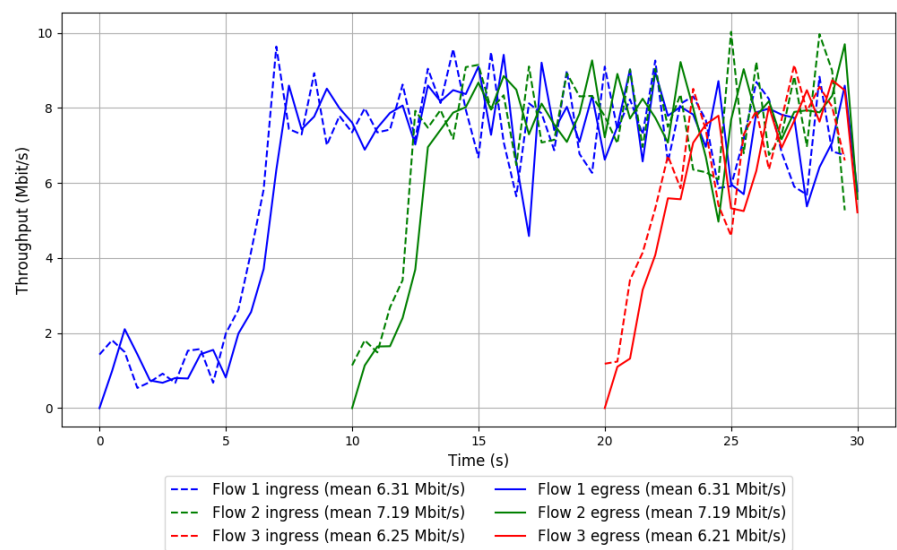


Run 4: Statistics of Sprout

Start at: 2018-06-01 23:13:19
End at: 2018-06-01 23:13:49
Local clock offset: -0.064 ms
Remote clock offset: -0.054 ms

```
# Below is generated by plot.py at 2018-06-02 03:34:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 51.549 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 51.472 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 51.680 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 51.404 ms
Loss rate: 1.66%
```

Run 4: Report of Sprout — Data Link

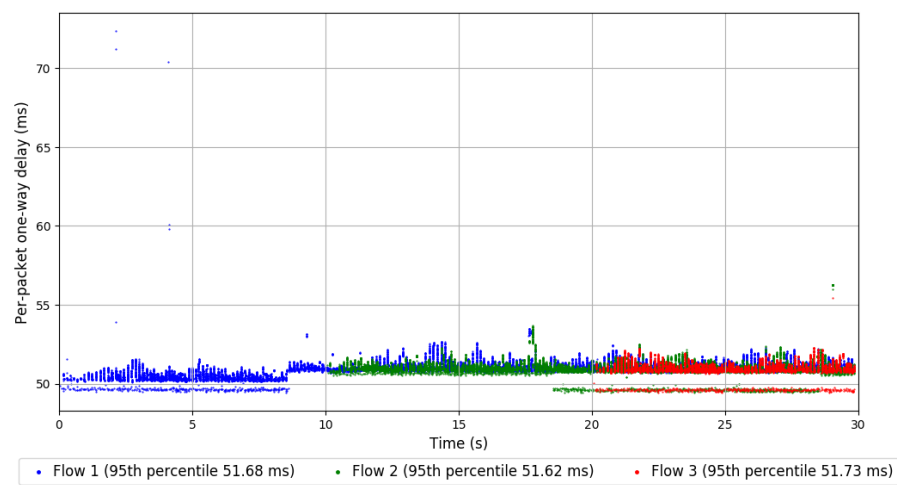
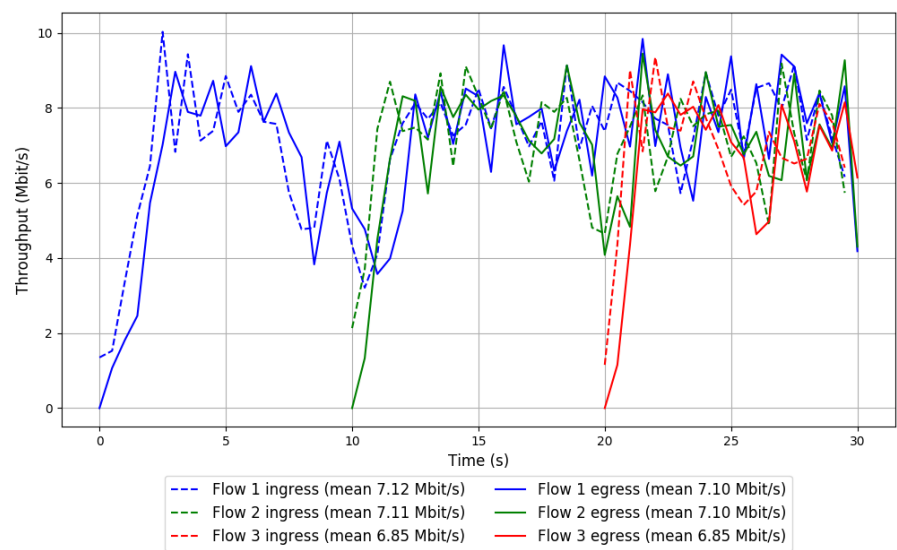


Run 5: Statistics of Sprout

Start at: 2018-06-01 23:35:27
End at: 2018-06-01 23:35:57
Local clock offset: -0.121 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.06 Mbit/s
95th percentile per-packet one-way delay: 51.670 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 51.677 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 51.620 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 51.726 ms
Loss rate: 0.93%

Run 5: Report of Sprout — Data Link

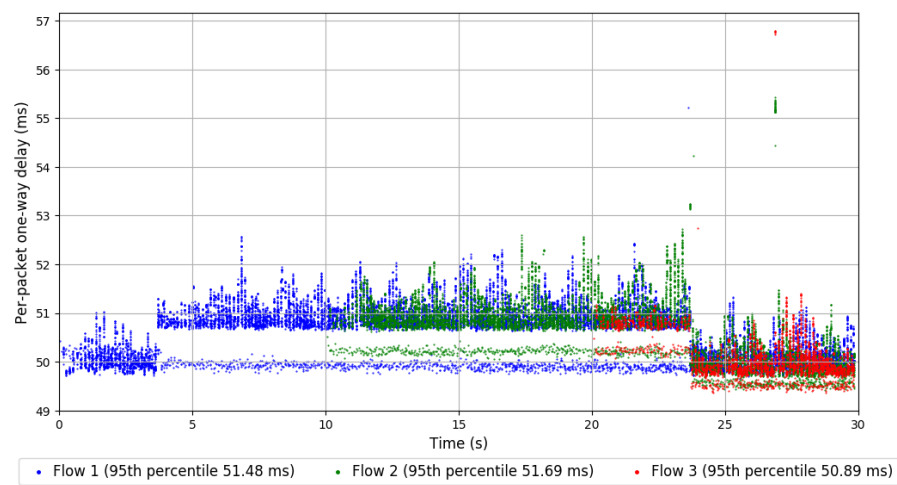
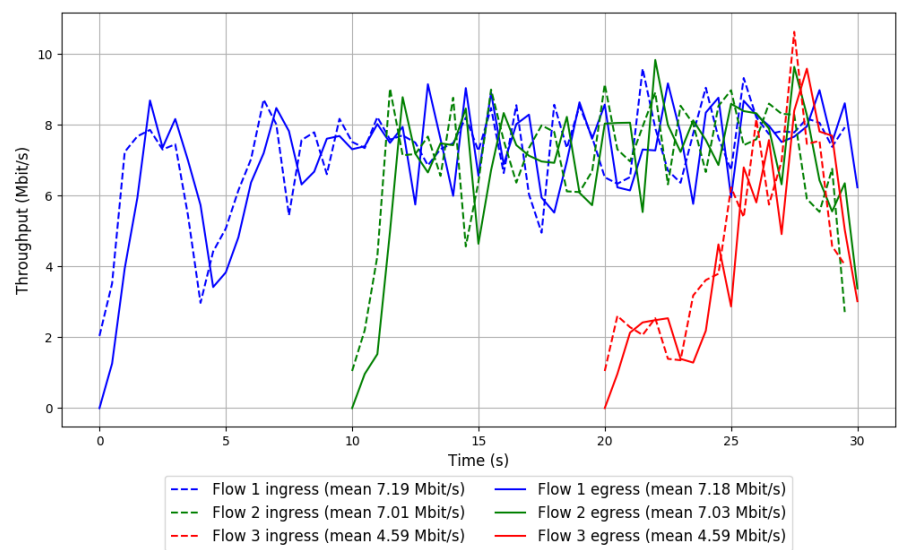


Run 6: Statistics of Sprout

Start at: 2018-06-01 23:57:42
End at: 2018-06-01 23:58:12
Local clock offset: -0.153 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 51.517 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 51.482 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 51.689 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 50.893 ms
Loss rate: 1.23%

Run 6: Report of Sprout — Data Link

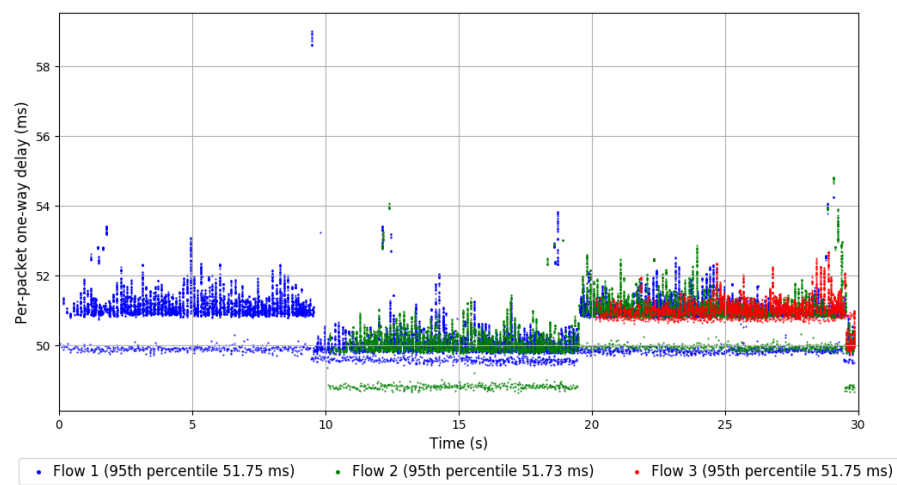
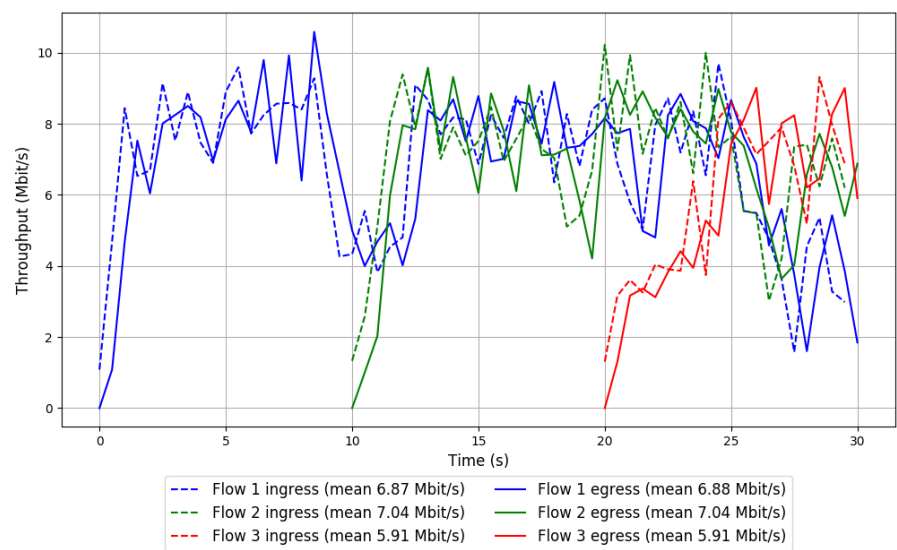


Run 7: Statistics of Sprout

Start at: 2018-06-02 00:19:56
End at: 2018-06-02 00:20:26
Local clock offset: -0.136 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.48 Mbit/s
95th percentile per-packet one-way delay: 51.749 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 51.754 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 51.730 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 5.91 Mbit/s
95th percentile per-packet one-way delay: 51.754 ms
Loss rate: 0.83%

Run 7: Report of Sprout — Data Link

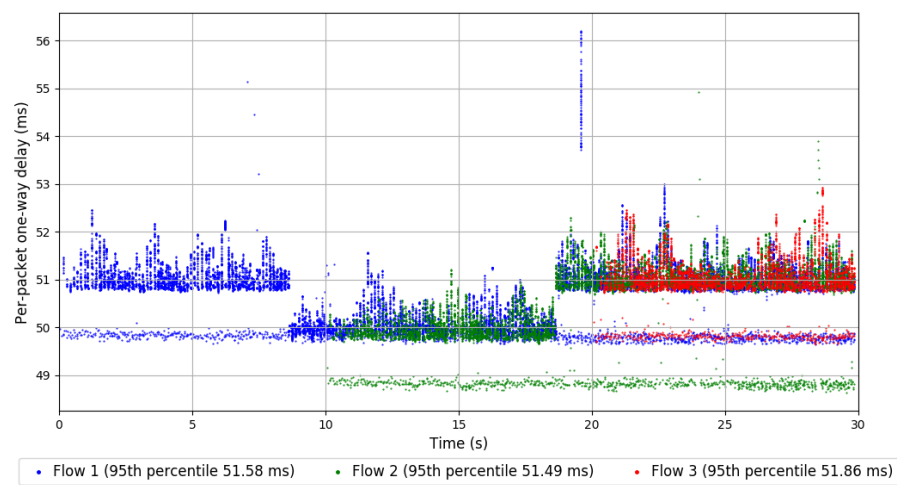
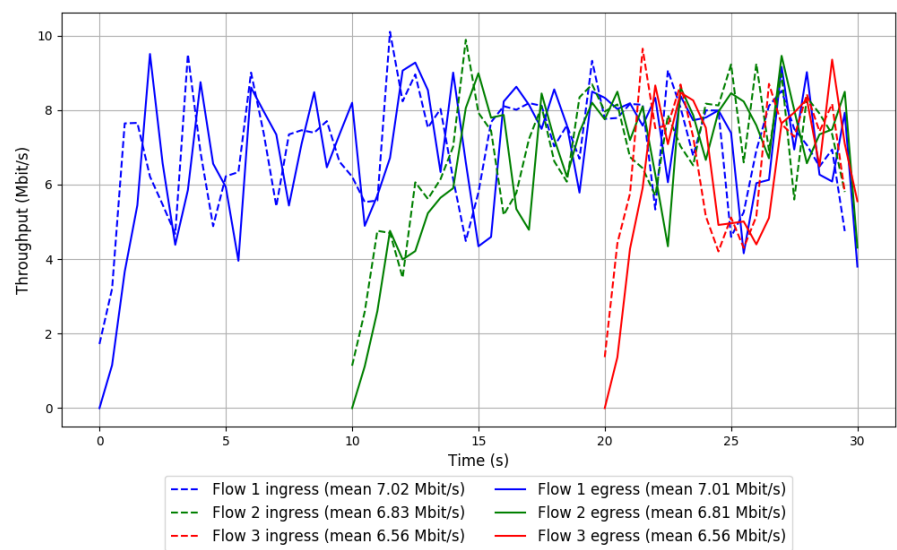


Run 8: Statistics of Sprout

Start at: 2018-06-02 00:42:07
End at: 2018-06-02 00:42:37
Local clock offset: -0.099 ms
Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 51.600 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 51.577 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 51.493 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 51.860 ms
Loss rate: 1.01%

Run 8: Report of Sprout — Data Link

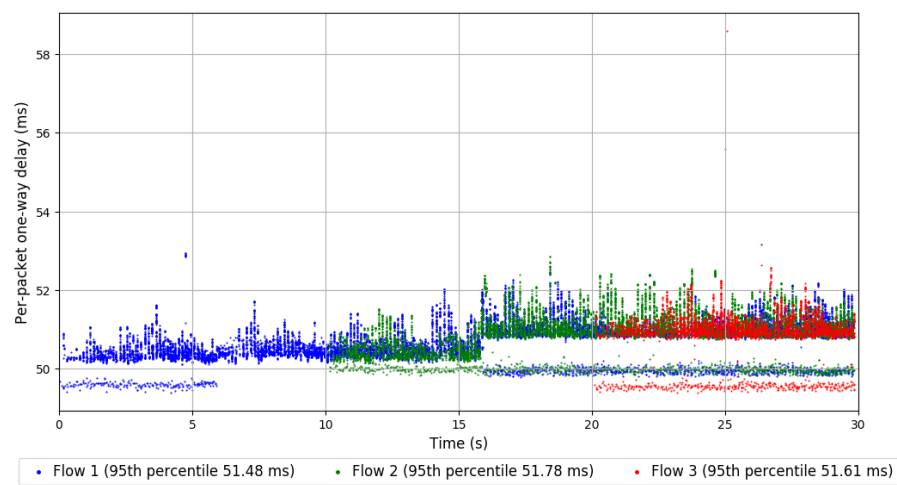
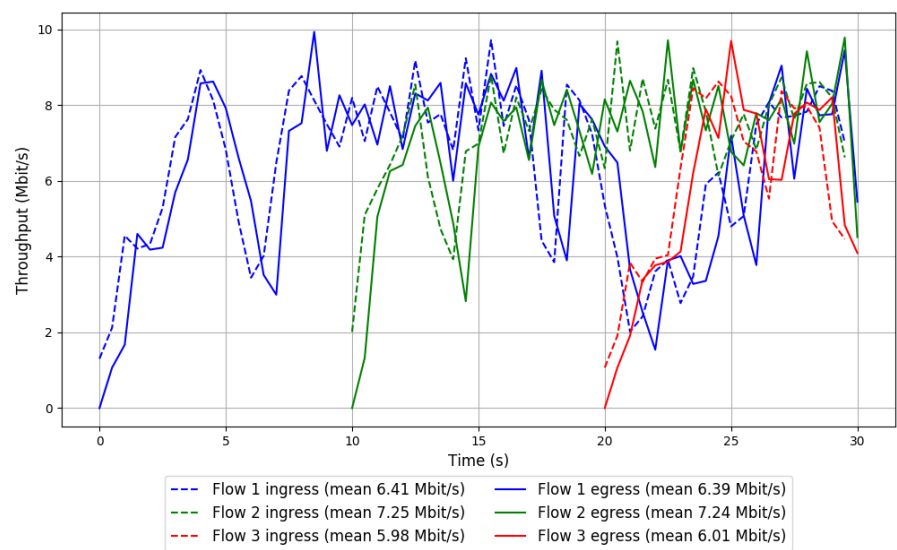


Run 9: Statistics of Sprout

Start at: 2018-06-02 01:04:30
End at: 2018-06-02 01:05:00
Local clock offset: -0.018 ms
Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-06-02 03:34:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 51.625 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 51.477 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 51.782 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 51.607 ms
Loss rate: 0.62%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-02 01:26:52

End at: 2018-06-02 01:27:22

Local clock offset: -0.082 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-02 03:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 51.611 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.549 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 51.698 ms

Loss rate: 0.48%

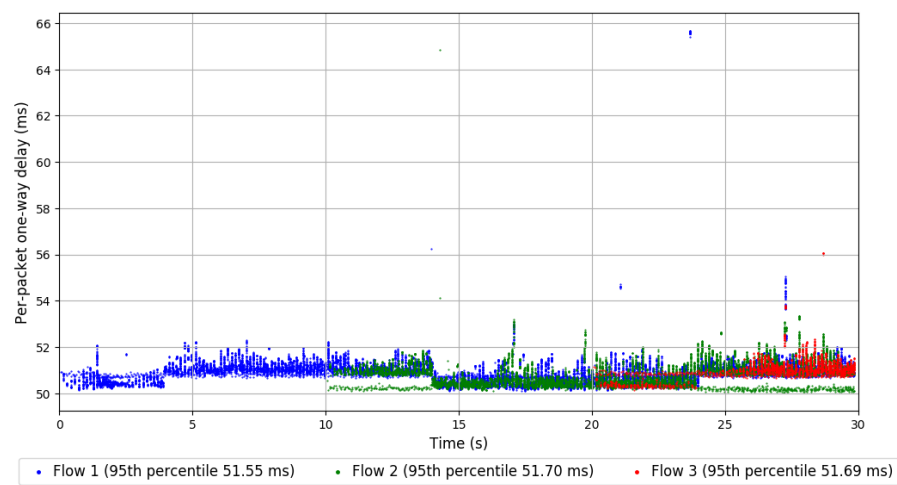
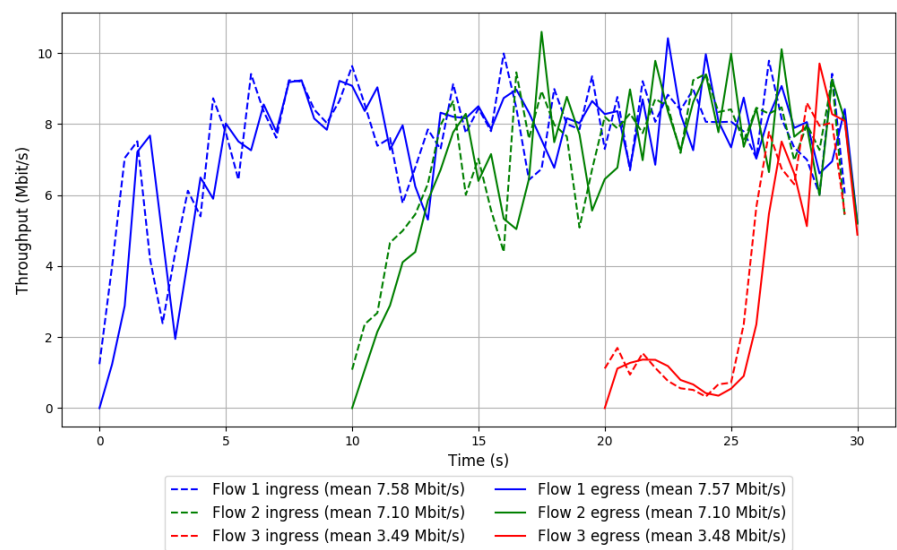
-- Flow 3:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 51.689 ms

Loss rate: 1.25%

Run 10: Report of Sprout — Data Link

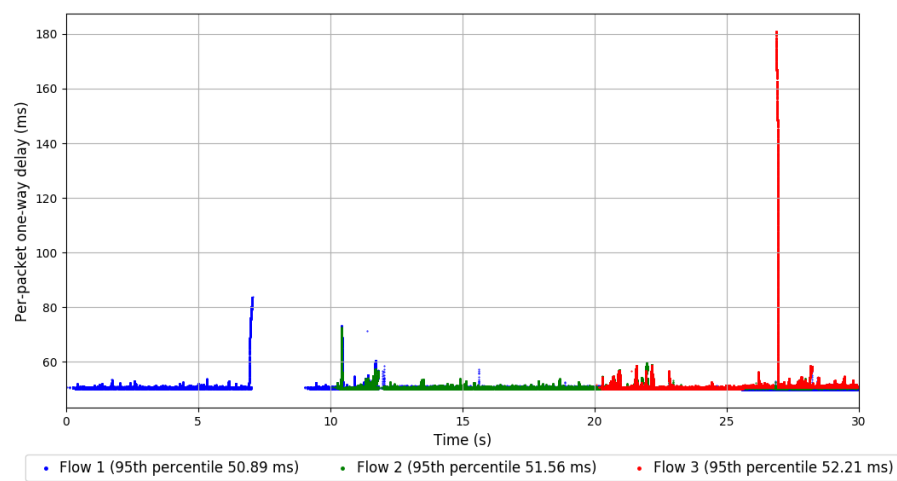
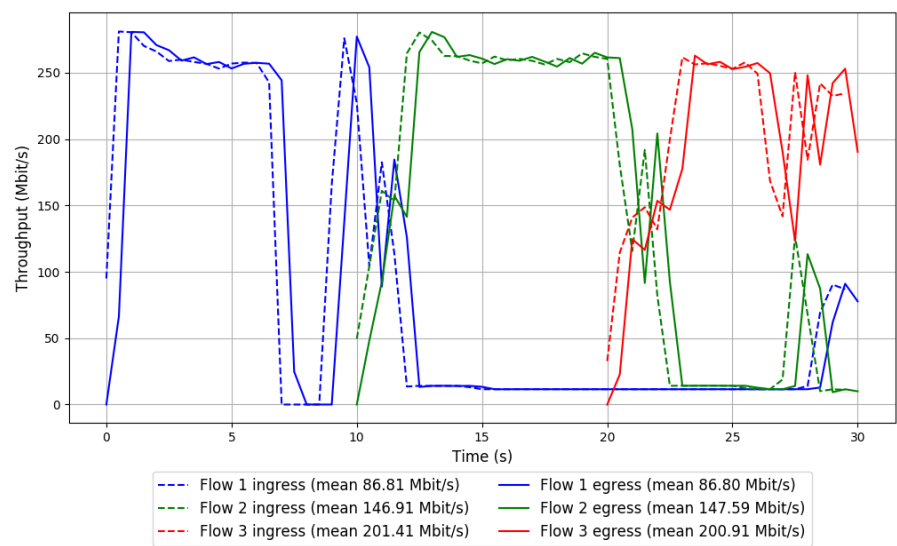


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-01 22:01:50
End at: 2018-06-01 22:02:20
Local clock offset: -0.153 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-02 03:40:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 251.23 Mbit/s
95th percentile per-packet one-way delay: 51.461 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 50.893 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 147.59 Mbit/s
95th percentile per-packet one-way delay: 51.559 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 200.91 Mbit/s
95th percentile per-packet one-way delay: 52.209 ms
Loss rate: 1.28%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-01 22:24:12

End at: 2018-06-01 22:24:42

Local clock offset: -0.105 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-02 03:41:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.58 Mbit/s

95th percentile per-packet one-way delay: 59.157 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 153.25 Mbit/s

95th percentile per-packet one-way delay: 51.230 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 107.71 Mbit/s

95th percentile per-packet one-way delay: 52.333 ms

Loss rate: 0.43%

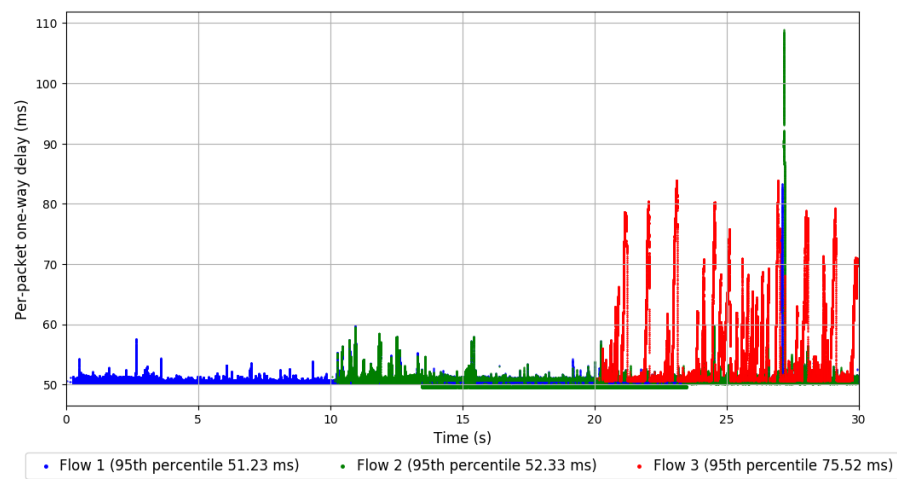
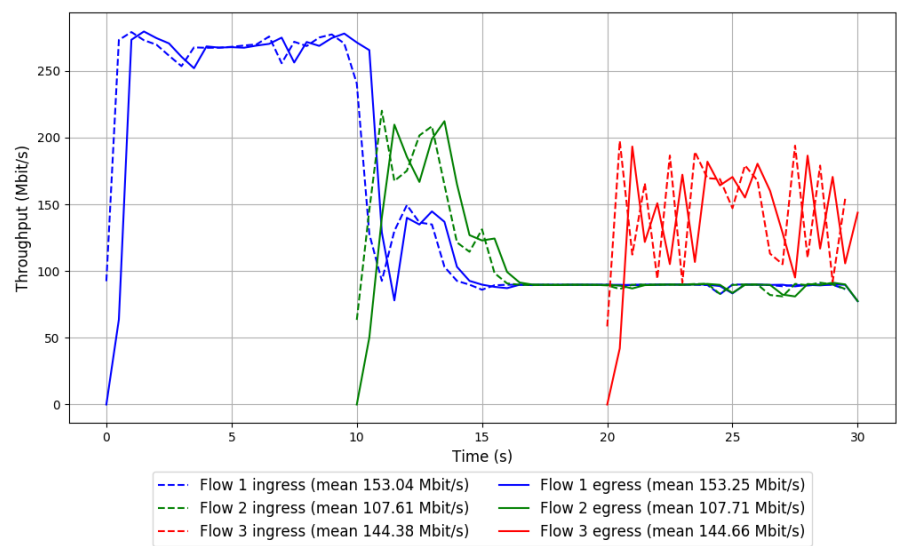
-- Flow 3:

Average throughput: 144.66 Mbit/s

95th percentile per-packet one-way delay: 75.524 ms

Loss rate: 0.83%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-01 22:46:42

End at: 2018-06-01 22:47:12

Local clock offset: -0.178 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-02 03:41:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.40 Mbit/s

95th percentile per-packet one-way delay: 52.877 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 119.11 Mbit/s

95th percentile per-packet one-way delay: 52.170 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 54.017 ms

Loss rate: 1.34%

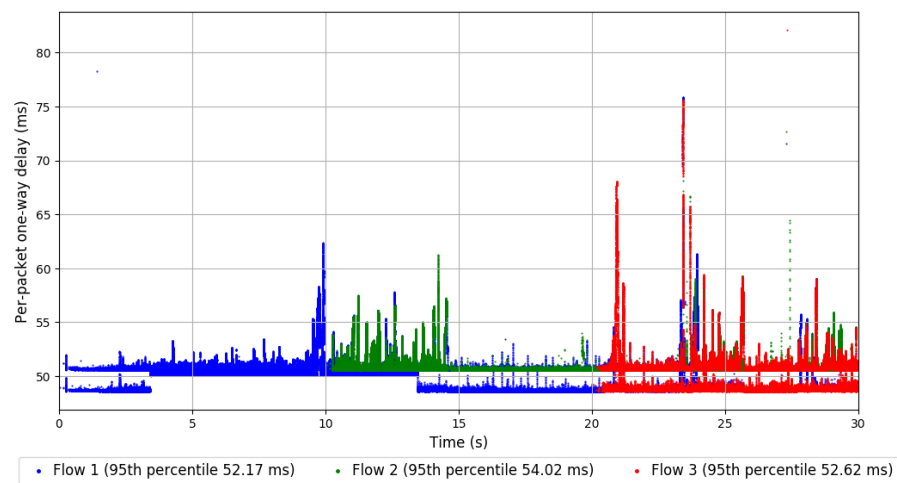
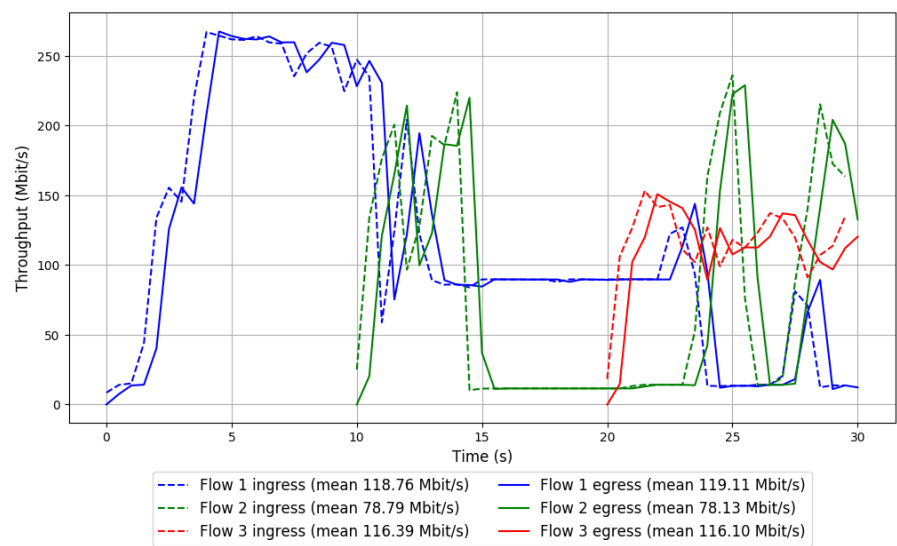
-- Flow 3:

Average throughput: 116.10 Mbit/s

95th percentile per-packet one-way delay: 52.620 ms

Loss rate: 1.25%

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

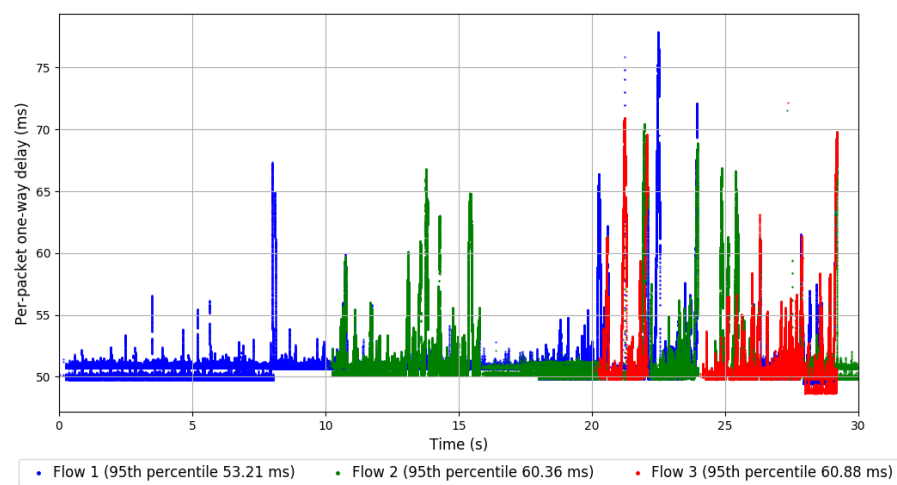
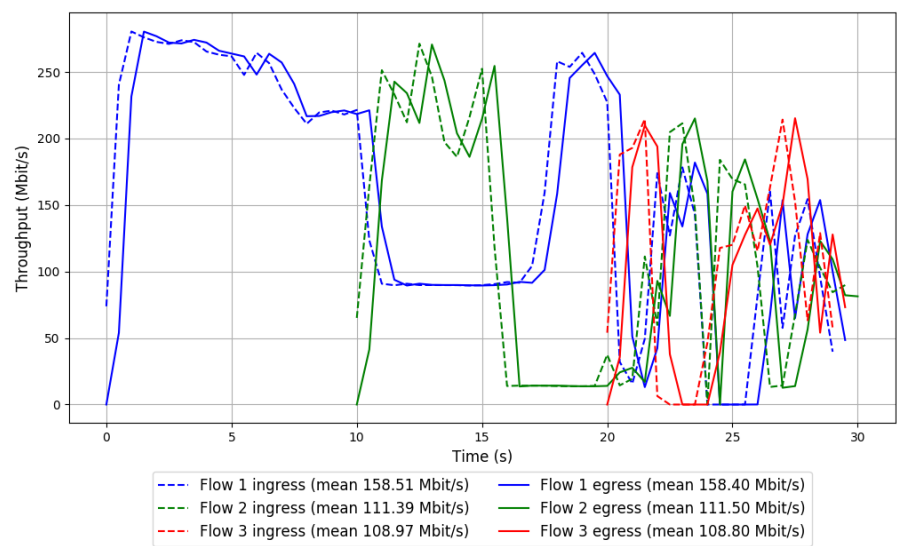


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-01 23:08:58
End at: 2018-06-01 23:09:28
Local clock offset: -0.075 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-02 03:41:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.79 Mbit/s
95th percentile per-packet one-way delay: 56.961 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 158.40 Mbit/s
95th percentile per-packet one-way delay: 53.210 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 111.50 Mbit/s
95th percentile per-packet one-way delay: 60.356 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 108.80 Mbit/s
95th percentile per-packet one-way delay: 60.884 ms
Loss rate: 0.00%

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

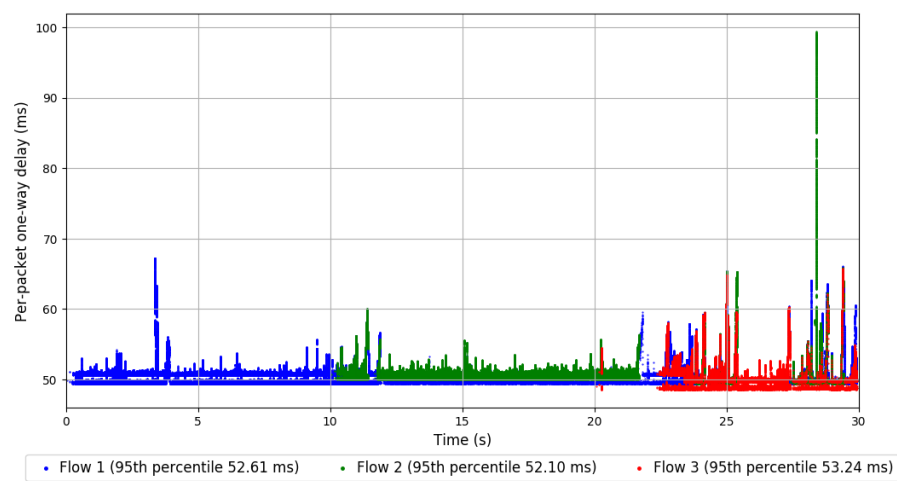
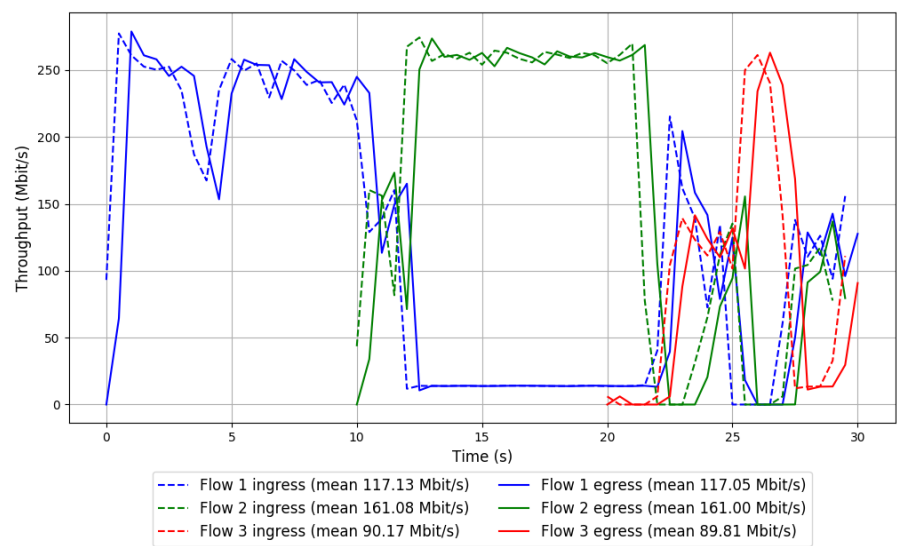


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-01 23:31:02
End at: 2018-06-01 23:31:32
Local clock offset: -0.121 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-02 03:41:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.15 Mbit/s
95th percentile per-packet one-way delay: 52.499 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 117.05 Mbit/s
95th percentile per-packet one-way delay: 52.611 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 161.00 Mbit/s
95th percentile per-packet one-way delay: 52.104 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 53.243 ms
Loss rate: 1.38%

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

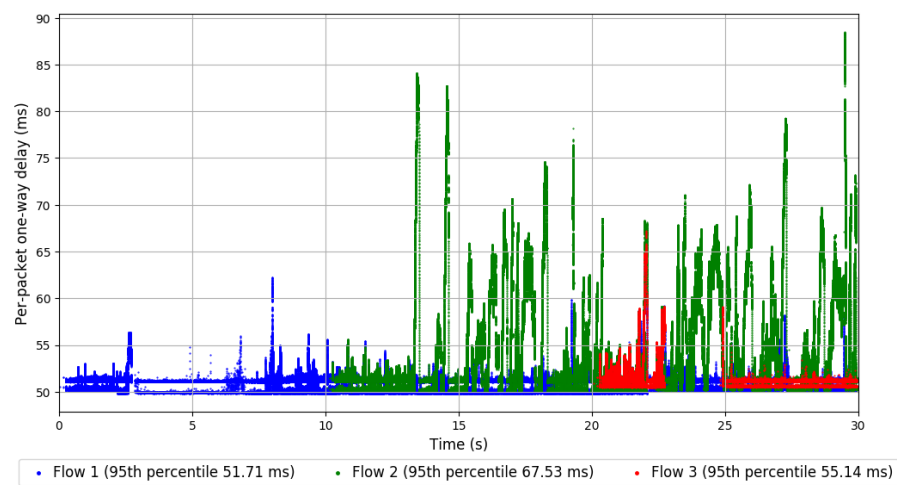
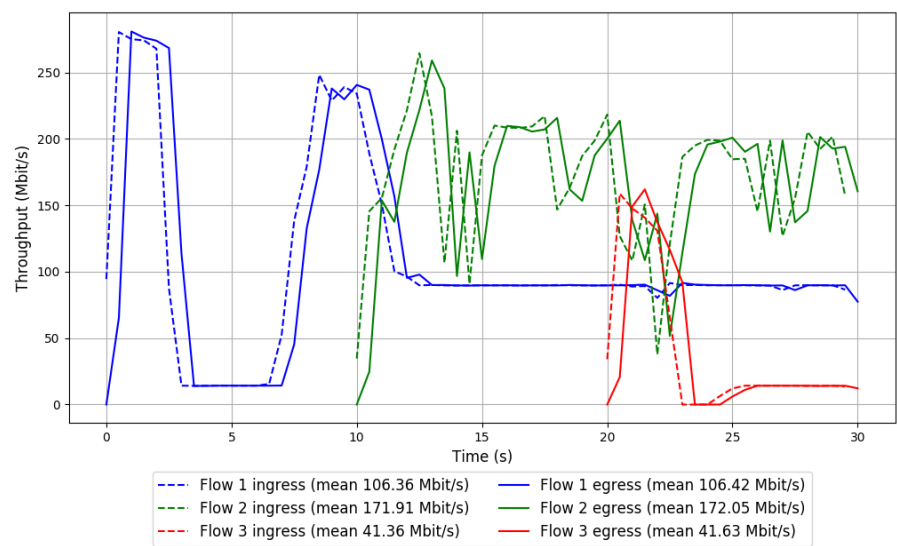


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-01 23:53:23
End at: 2018-06-01 23:53:53
Local clock offset: 0.28 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-02 03:41:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.56 Mbit/s
95th percentile per-packet one-way delay: 64.375 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 106.42 Mbit/s
95th percentile per-packet one-way delay: 51.708 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 172.05 Mbit/s
95th percentile per-packet one-way delay: 67.529 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 55.139 ms
Loss rate: 0.35%

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

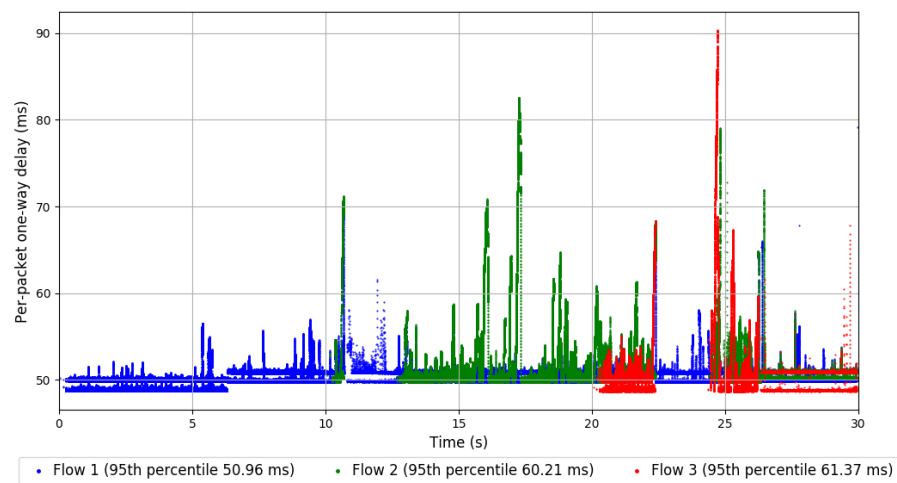
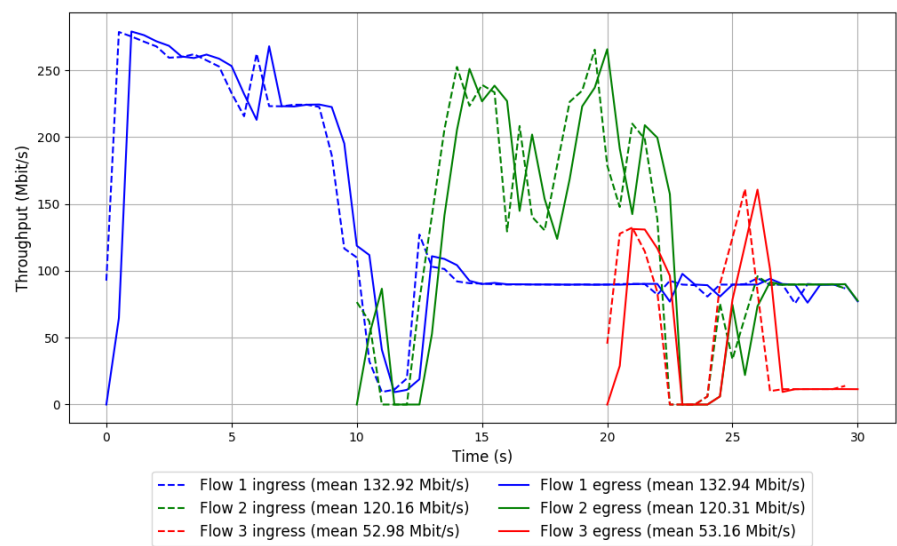


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-02 00:15:39
End at: 2018-06-02 00:16:09
Local clock offset: -0.066 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-02 03:44:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.42 Mbit/s
95th percentile per-packet one-way delay: 54.941 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 132.94 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 120.31 Mbit/s
95th percentile per-packet one-way delay: 60.207 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 53.16 Mbit/s
95th percentile per-packet one-way delay: 61.367 ms
Loss rate: 0.35%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-02 00:37:45

End at: 2018-06-02 00:38:15

Local clock offset: 0.261 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-02 03:46:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.14 Mbit/s

95th percentile per-packet one-way delay: 56.209 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 103.96 Mbit/s

95th percentile per-packet one-way delay: 51.779 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 154.76 Mbit/s

95th percentile per-packet one-way delay: 60.122 ms

Loss rate: 0.48%

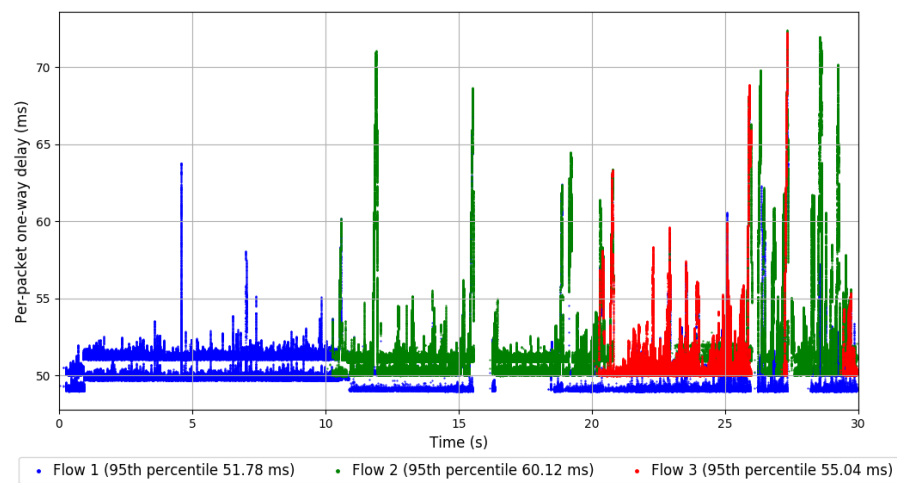
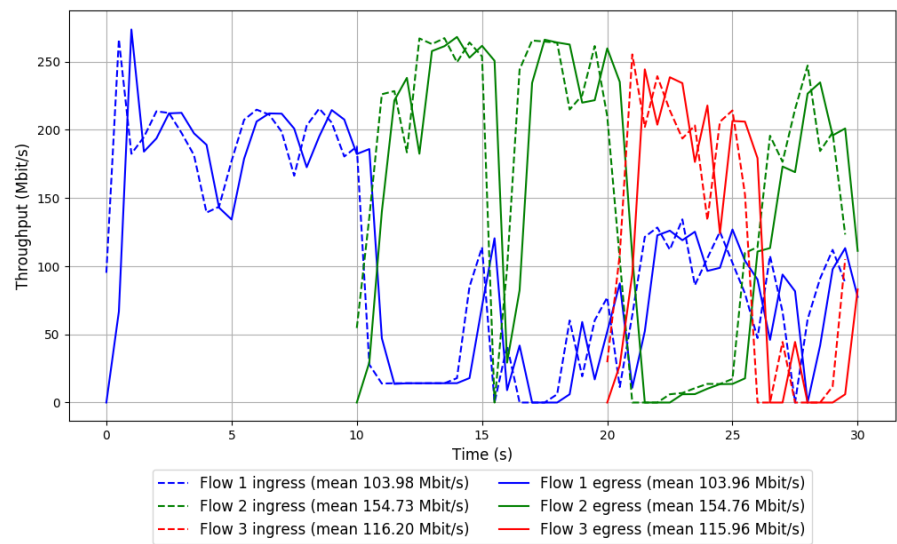
-- Flow 3:

Average throughput: 115.96 Mbit/s

95th percentile per-packet one-way delay: 55.038 ms

Loss rate: 1.21%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-02 01:00:06

End at: 2018-06-02 01:00:36

Local clock offset: -0.034 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-02 03:51:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.79 Mbit/s

95th percentile per-packet one-way delay: 54.380 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 171.18 Mbit/s

95th percentile per-packet one-way delay: 52.438 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 151.82 Mbit/s

95th percentile per-packet one-way delay: 56.444 ms

Loss rate: 0.00%

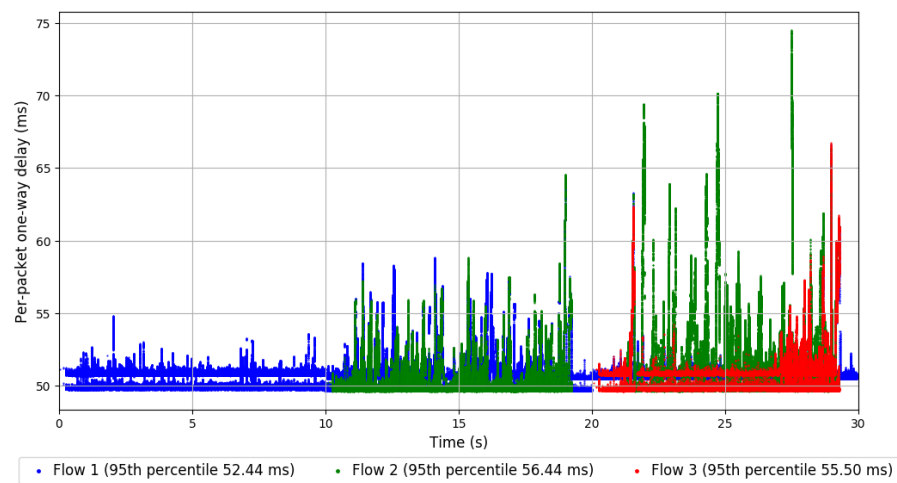
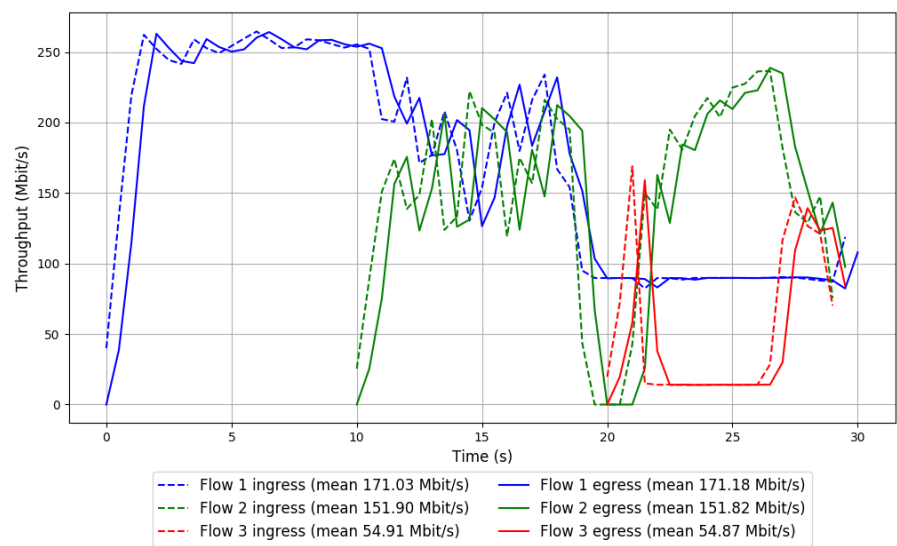
-- Flow 3:

Average throughput: 54.87 Mbit/s

95th percentile per-packet one-way delay: 55.498 ms

Loss rate: 0.00%

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

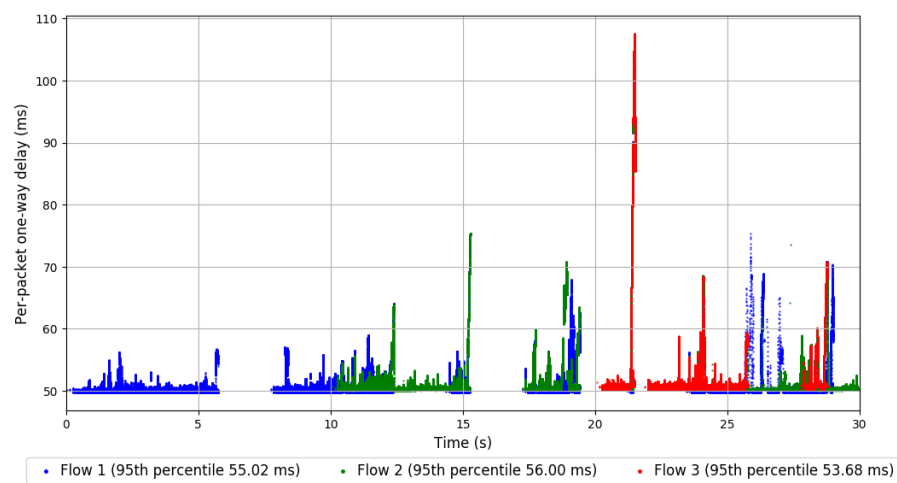
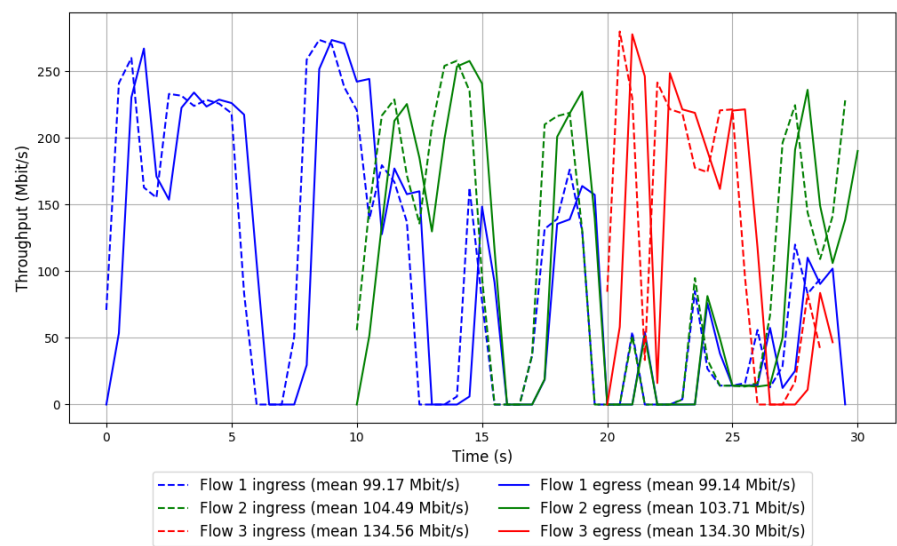


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-02 01:22:33
End at: 2018-06-02 01:23:03
Local clock offset: -0.115 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-02 03:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.20 Mbit/s
95th percentile per-packet one-way delay: 55.193 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 99.14 Mbit/s
95th percentile per-packet one-way delay: 55.015 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.71 Mbit/s
95th percentile per-packet one-way delay: 56.000 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 134.30 Mbit/s
95th percentile per-packet one-way delay: 53.682 ms
Loss rate: 0.00%
```

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

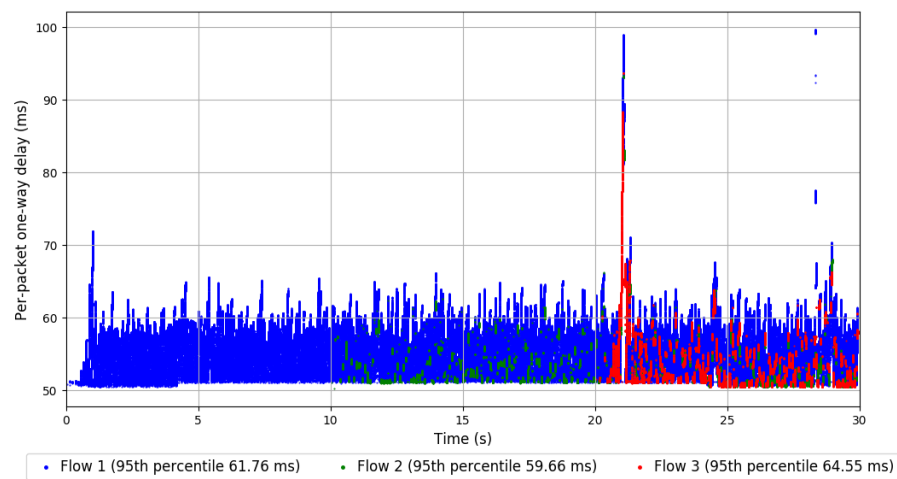
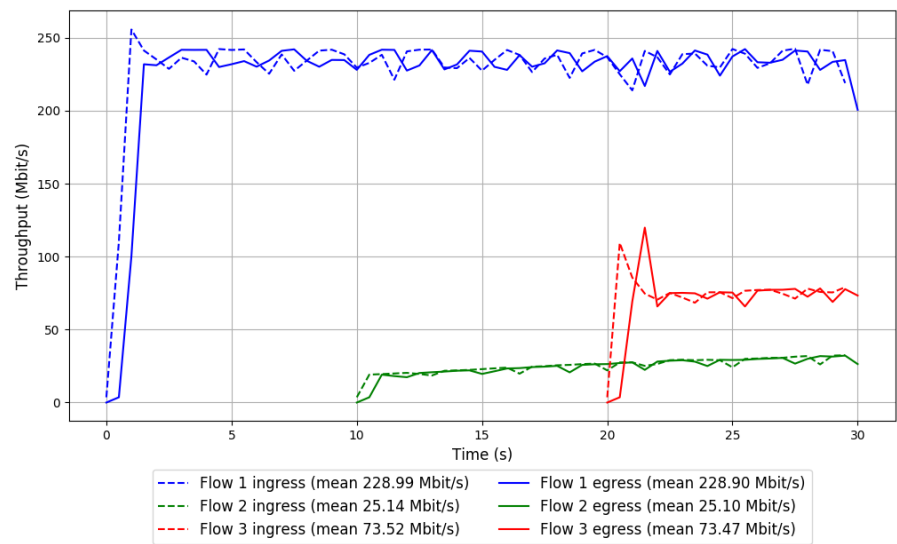


Run 1: Statistics of TCP Vegas

Start at: 2018-06-01 22:17:01
End at: 2018-06-01 22:17:31
Local clock offset: 0.231 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-02 03:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.78 Mbit/s
95th percentile per-packet one-way delay: 61.784 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 228.90 Mbit/s
95th percentile per-packet one-way delay: 61.764 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 59.662 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 73.47 Mbit/s
95th percentile per-packet one-way delay: 64.549 ms
Loss rate: 1.08%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-01 22:39:28

End at: 2018-06-01 22:39:58

Local clock offset: -0.129 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-02 03:51:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.78 Mbit/s

95th percentile per-packet one-way delay: 74.973 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 211.71 Mbit/s

95th percentile per-packet one-way delay: 72.785 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 71.652 ms

Loss rate: 0.80%

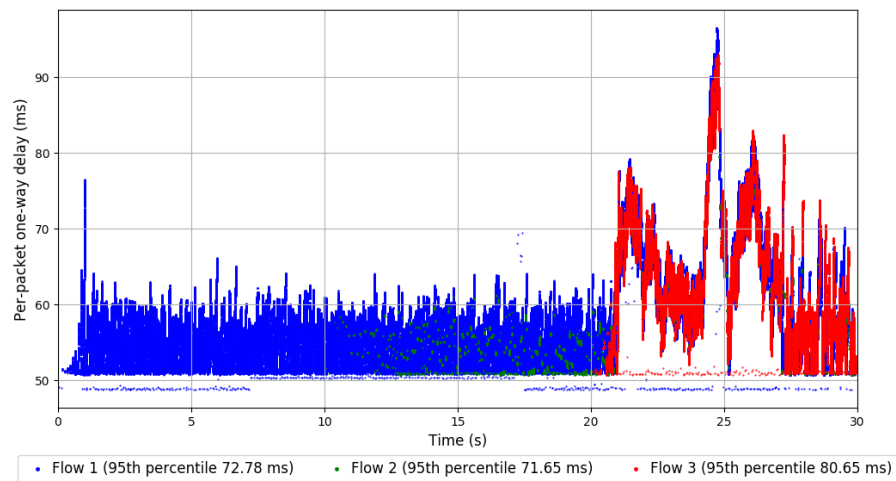
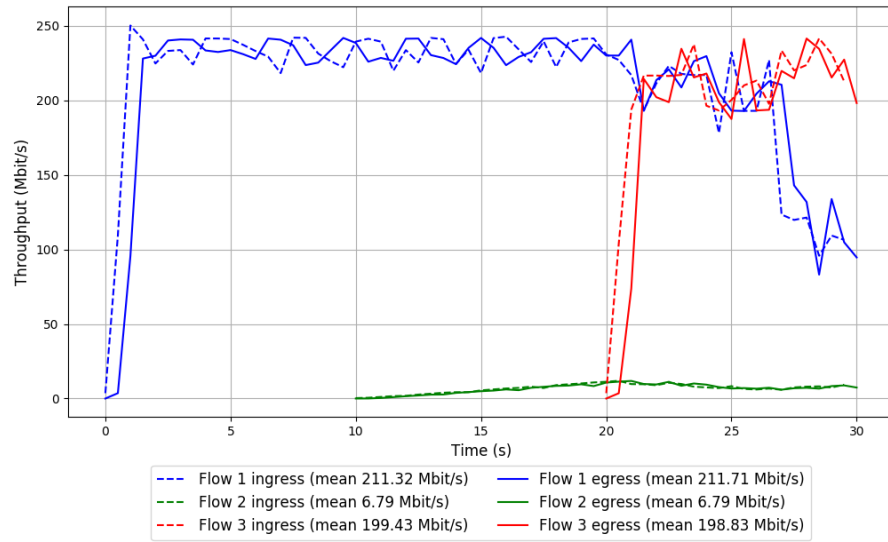
-- Flow 3:

Average throughput: 198.83 Mbit/s

95th percentile per-packet one-way delay: 80.653 ms

Loss rate: 1.33%

Run 2: Report of TCP Vegas — Data Link

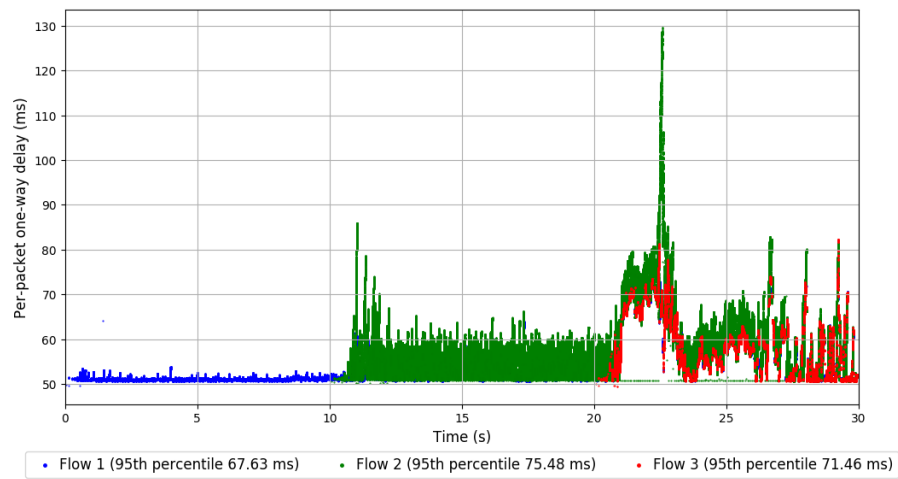
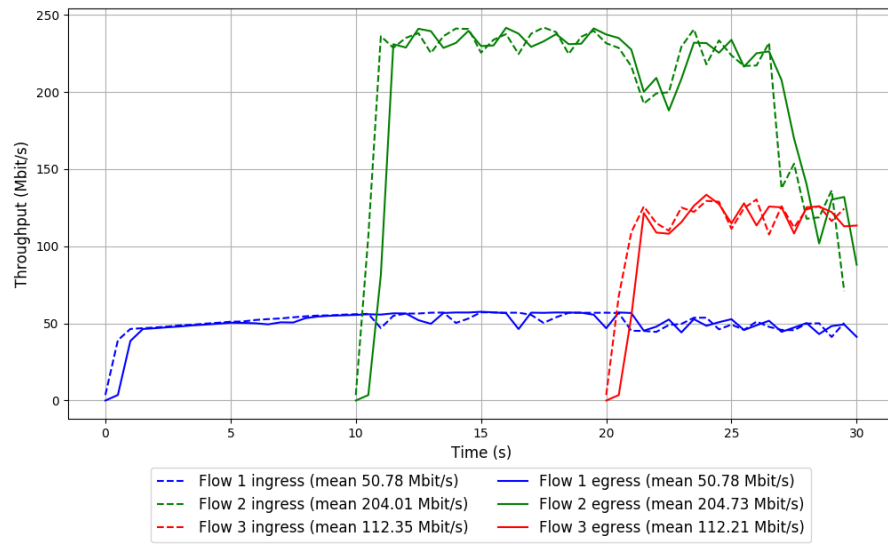


Run 3: Statistics of TCP Vegas

Start at: 2018-06-01 23:01:53
End at: 2018-06-01 23:02:23
Local clock offset: -0.111 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-02 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 223.89 Mbit/s
95th percentile per-packet one-way delay: 72.973 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 50.78 Mbit/s
95th percentile per-packet one-way delay: 67.633 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 204.73 Mbit/s
95th percentile per-packet one-way delay: 75.482 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 112.21 Mbit/s
95th percentile per-packet one-way delay: 71.459 ms
Loss rate: 1.13%

Run 3: Report of TCP Vegas — Data Link

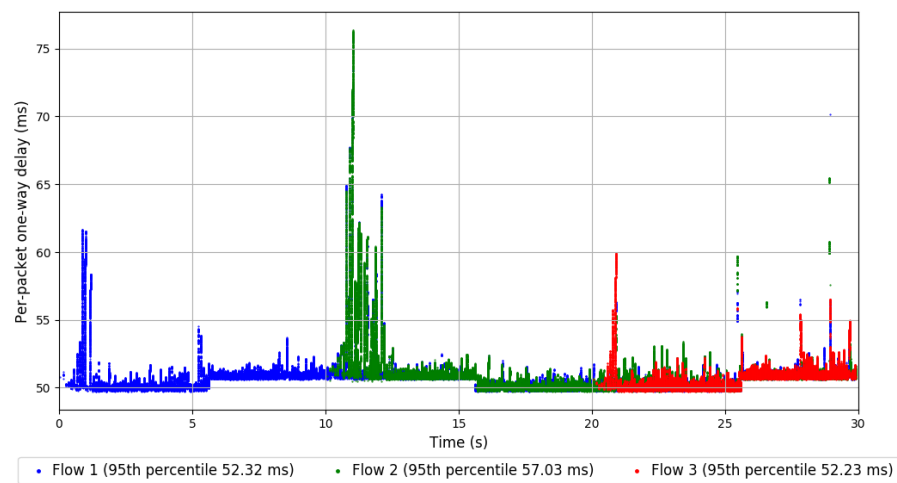
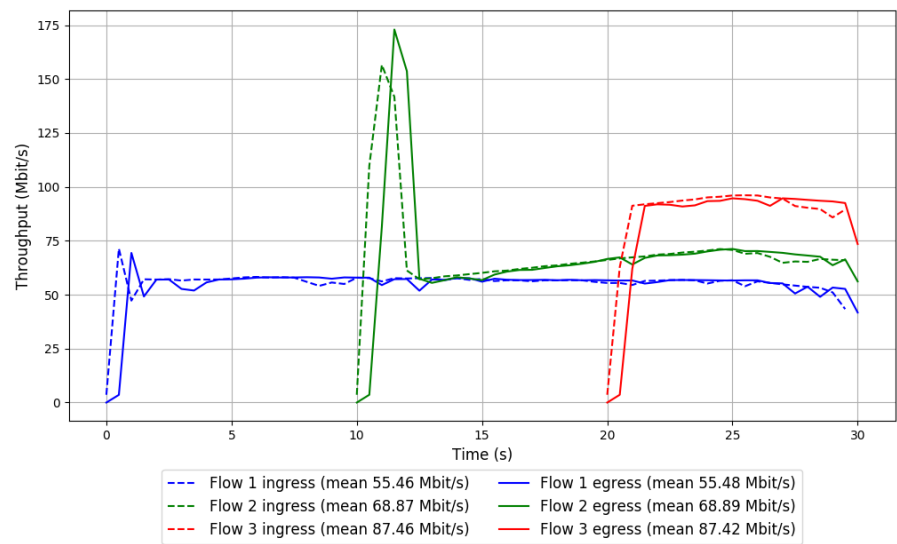


Run 4: Statistics of TCP Vegas

Start at: 2018-06-01 23:24:00
End at: 2018-06-01 23:24:30
Local clock offset: -0.109 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-02 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 130.01 Mbit/s
95th percentile per-packet one-way delay: 53.811 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 52.318 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 57.030 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 52.229 ms
Loss rate: 1.06%

Run 4: Report of TCP Vegas — Data Link

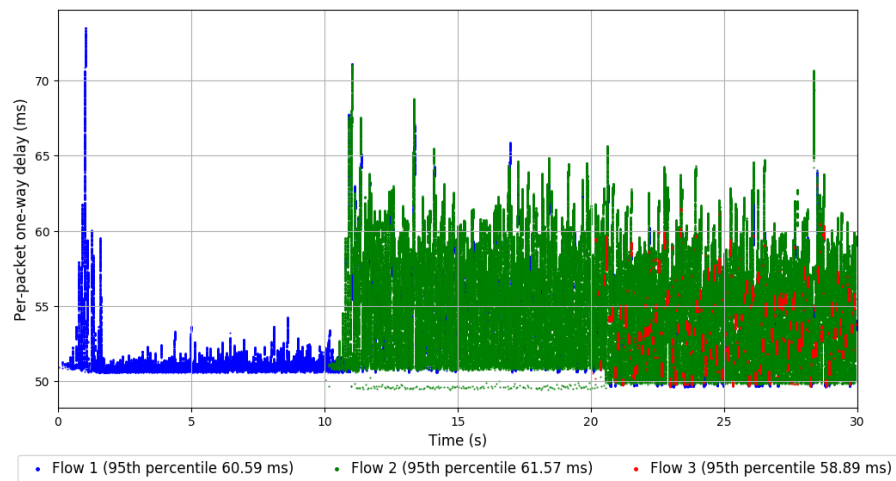
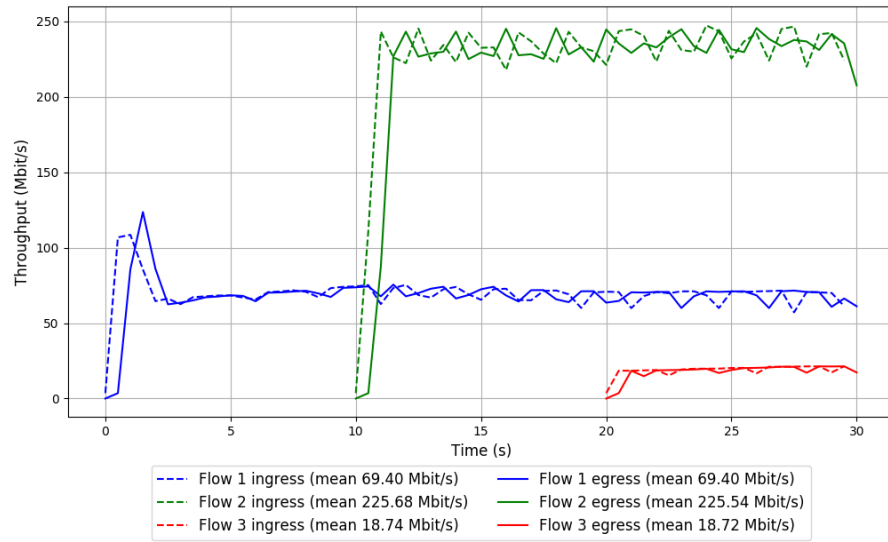


Run 5: Statistics of TCP Vegas

Start at: 2018-06-01 23:46:15
End at: 2018-06-01 23:46:45
Local clock offset: -0.133 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-02 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 225.60 Mbit/s
95th percentile per-packet one-way delay: 61.368 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 69.40 Mbit/s
95th percentile per-packet one-way delay: 60.585 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 225.54 Mbit/s
95th percentile per-packet one-way delay: 61.571 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 58.887 ms
Loss rate: 1.14%

Run 5: Report of TCP Vegas — Data Link

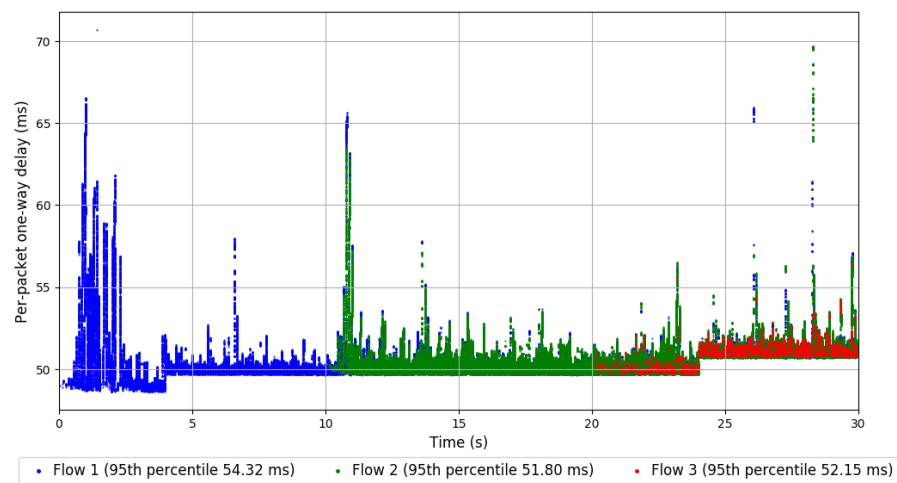
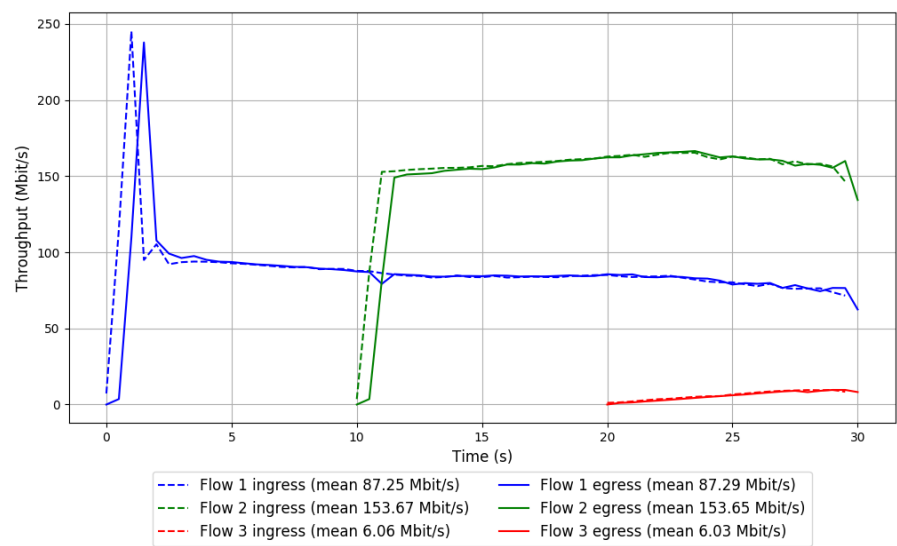


Run 6: Statistics of TCP Vegas

Start at: 2018-06-02 00:08:32
End at: 2018-06-02 00:09:02
Local clock offset: -0.157 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-02 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 52.532 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 54.322 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 153.65 Mbit/s
95th percentile per-packet one-way delay: 51.802 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: 52.148 ms
Loss rate: 1.59%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-02 00:30:45

End at: 2018-06-02 00:31:15

Local clock offset: -0.125 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-02 03:51:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.76 Mbit/s

95th percentile per-packet one-way delay: 60.185 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 19.29 Mbit/s

95th percentile per-packet one-way delay: 55.572 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 56.660 ms

Loss rate: 0.52%

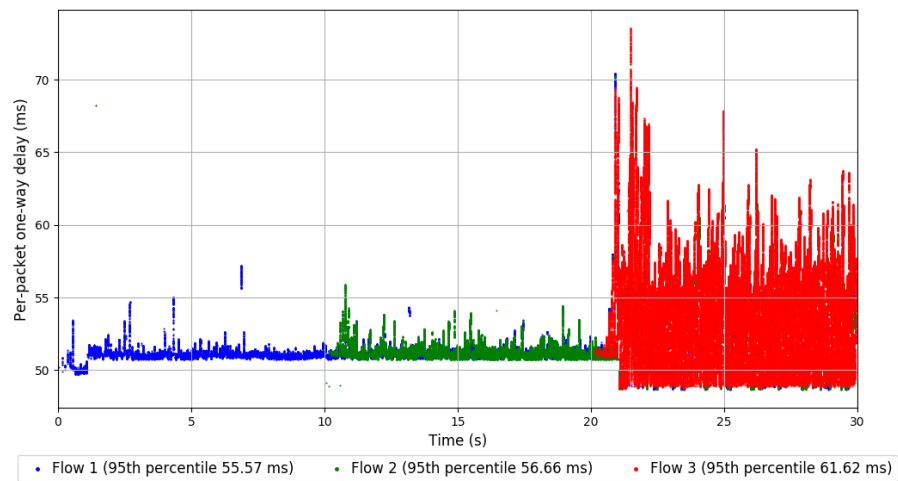
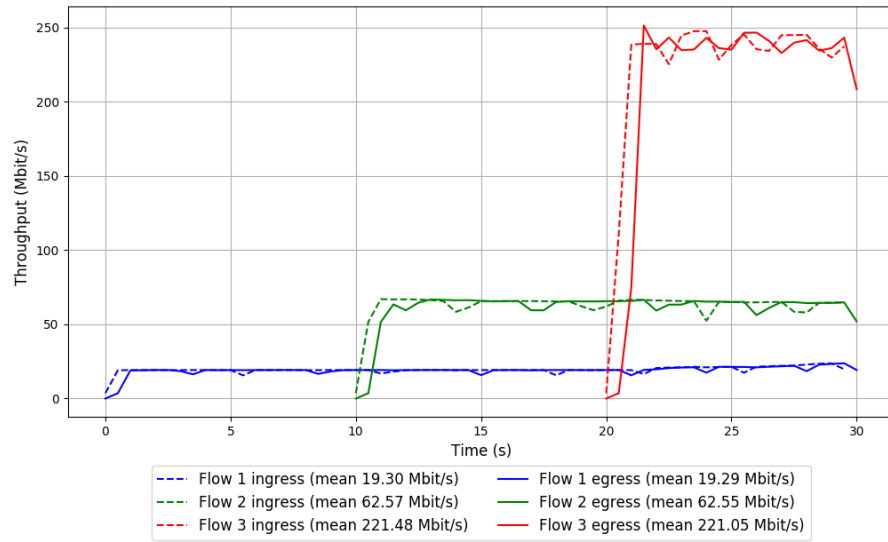
-- Flow 3:

Average throughput: 221.05 Mbit/s

95th percentile per-packet one-way delay: 61.615 ms

Loss rate: 1.19%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-02 00:52:53

End at: 2018-06-02 00:53:23

Local clock offset: -0.059 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-02 03:53:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.36 Mbit/s

95th percentile per-packet one-way delay: 59.906 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 110.84 Mbit/s

95th percentile per-packet one-way delay: 56.538 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 225.93 Mbit/s

95th percentile per-packet one-way delay: 60.446 ms

Loss rate: 0.53%

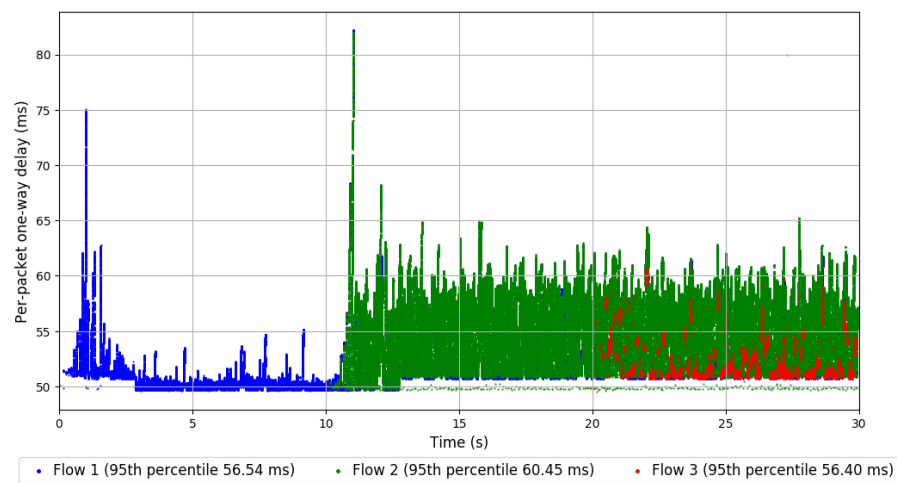
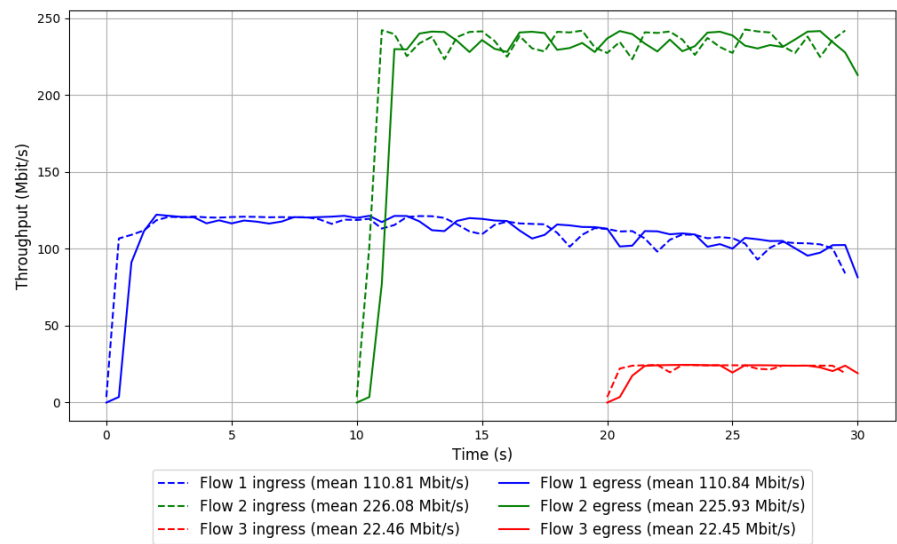
-- Flow 3:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 56.402 ms

Loss rate: 1.07%

Run 8: Report of TCP Vegas — Data Link

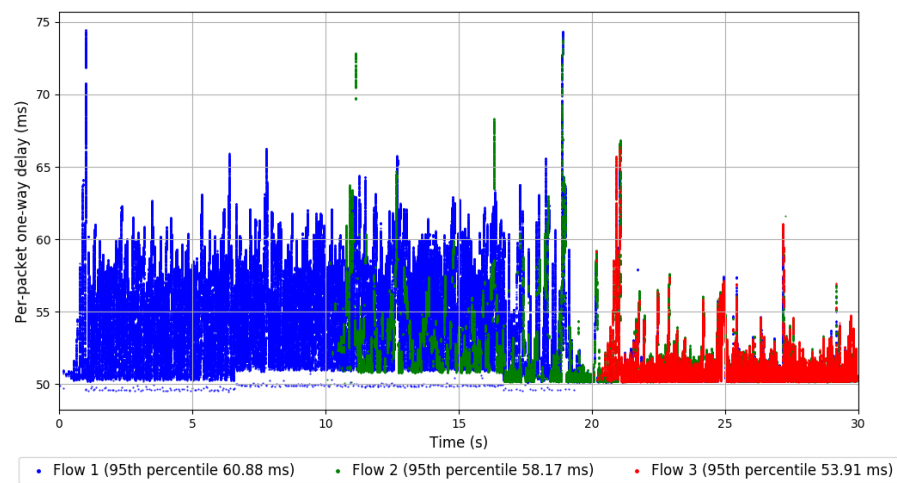
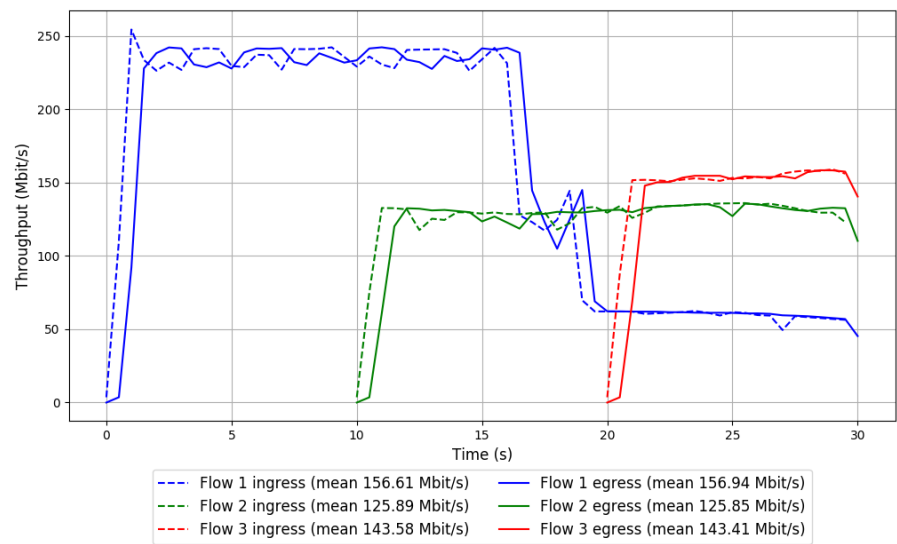


Run 9: Statistics of TCP Vegas

Start at: 2018-06-02 01:15:19
End at: 2018-06-02 01:15:49
Local clock offset: -0.035 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-02 03:54:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.93 Mbit/s
95th percentile per-packet one-way delay: 60.199 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 156.94 Mbit/s
95th percentile per-packet one-way delay: 60.876 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 125.85 Mbit/s
95th percentile per-packet one-way delay: 58.166 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 143.41 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 1.12%

Run 9: Report of TCP Vegas — Data Link

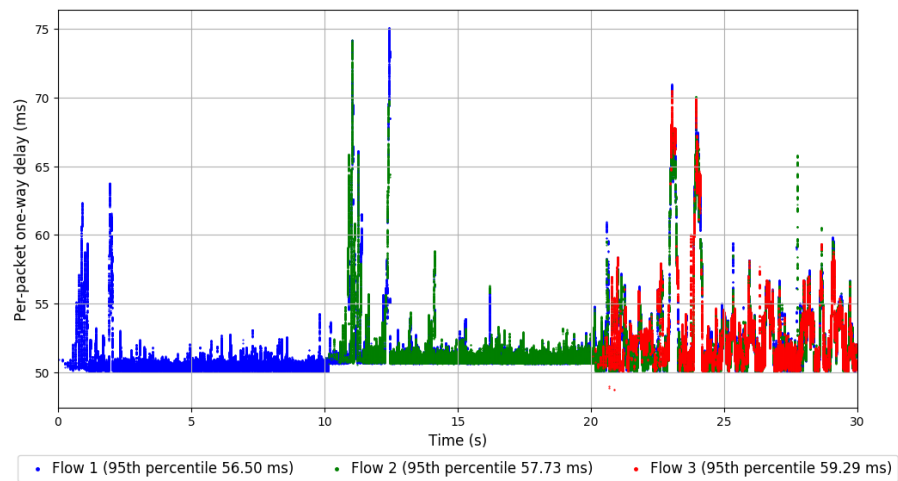
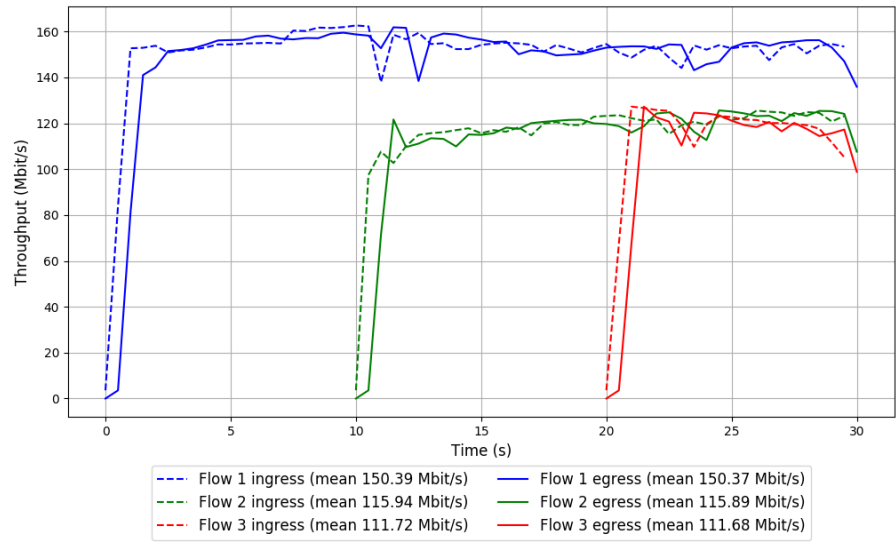


Run 10: Statistics of TCP Vegas

Start at: 2018-06-02 01:37:35
End at: 2018-06-02 01:38:05
Local clock offset: -0.115 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-02 03:54:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.28 Mbit/s
95th percentile per-packet one-way delay: 57.250 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 150.37 Mbit/s
95th percentile per-packet one-way delay: 56.504 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 115.89 Mbit/s
95th percentile per-packet one-way delay: 57.725 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 111.68 Mbit/s
95th percentile per-packet one-way delay: 59.291 ms
Loss rate: 1.05%

Run 10: Report of TCP Vegas — Data Link

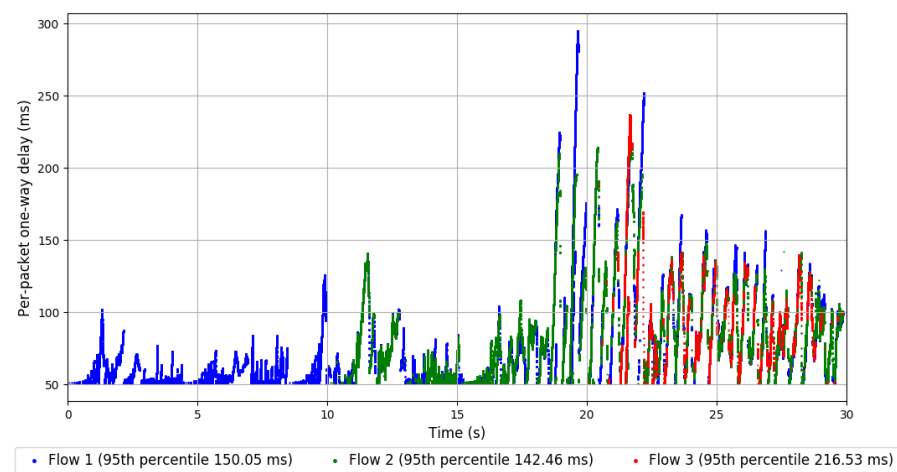
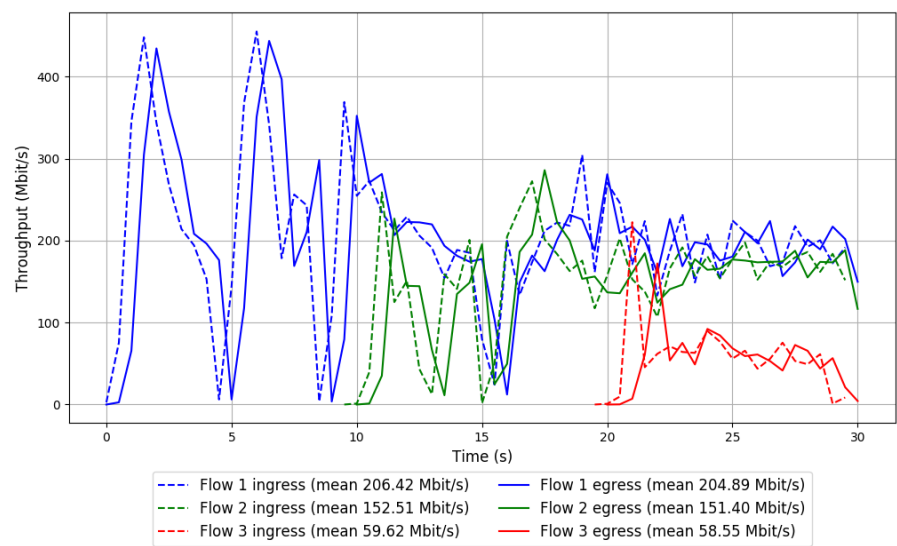


Run 1: Statistics of Verus

Start at: 2018-06-01 22:03:21
End at: 2018-06-01 22:03:51
Local clock offset: 0.269 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-02 03:56:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.74 Mbit/s
95th percentile per-packet one-way delay: 152.001 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 204.89 Mbit/s
95th percentile per-packet one-way delay: 150.053 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 151.40 Mbit/s
95th percentile per-packet one-way delay: 142.456 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 216.526 ms
Loss rate: 2.81%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-01 22:25:45

End at: 2018-06-01 22:26:15

Local clock offset: -0.14 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-02 03:56:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.83 Mbit/s

95th percentile per-packet one-way delay: 189.954 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 213.15 Mbit/s

95th percentile per-packet one-way delay: 191.651 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 74.12 Mbit/s

95th percentile per-packet one-way delay: 183.492 ms

Loss rate: 0.46%

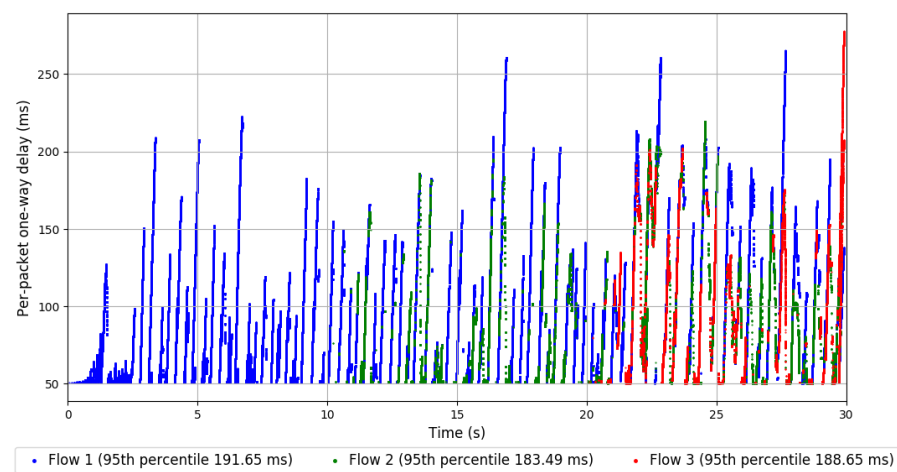
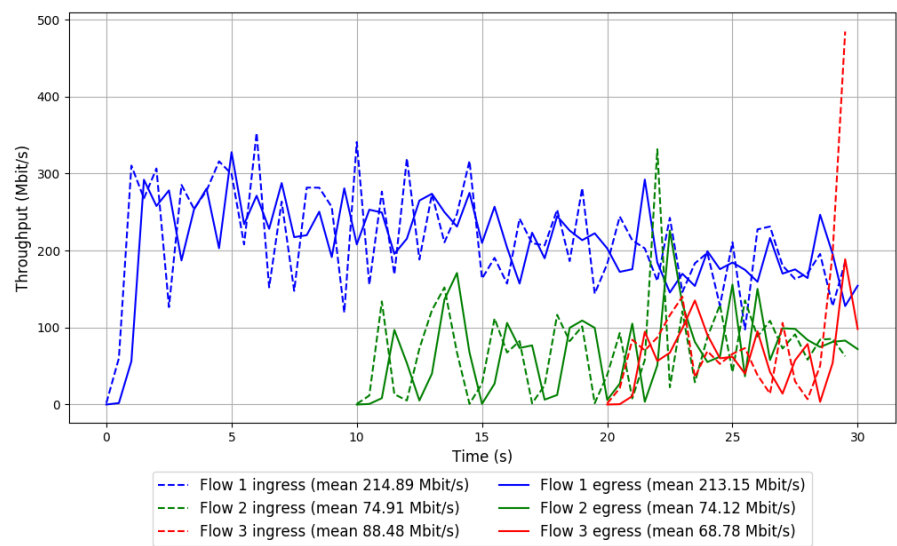
-- Flow 3:

Average throughput: 68.78 Mbit/s

95th percentile per-packet one-way delay: 188.652 ms

Loss rate: 22.72%

Run 2: Report of Verus — Data Link

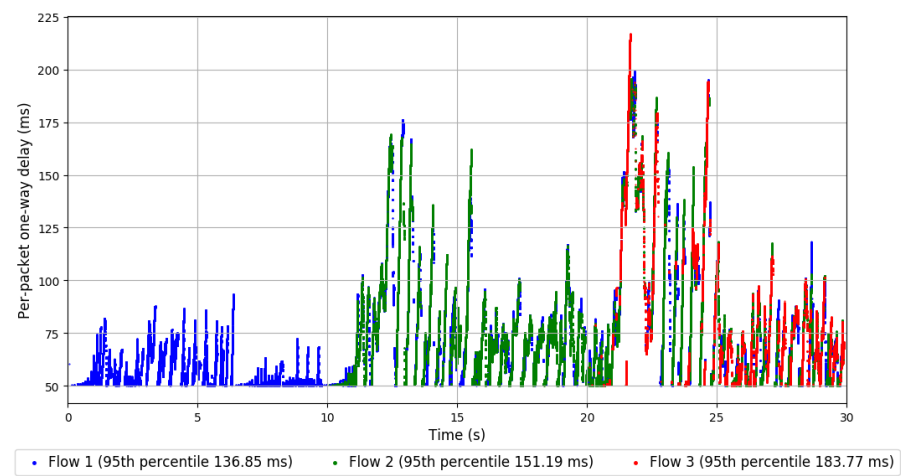
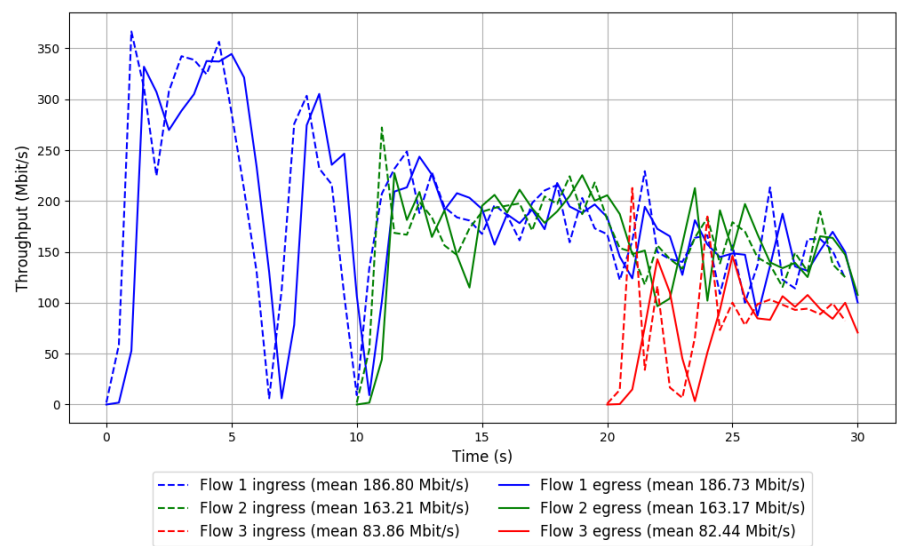


Run 3: Statistics of Verus

Start at: 2018-06-01 22:48:09
End at: 2018-06-01 22:48:39
Local clock offset: -0.518 ms
Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-02 03:56:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 322.15 Mbit/s
95th percentile per-packet one-way delay: 150.407 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 186.73 Mbit/s
95th percentile per-packet one-way delay: 136.853 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 163.17 Mbit/s
95th percentile per-packet one-way delay: 151.194 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 82.44 Mbit/s
95th percentile per-packet one-way delay: 183.770 ms
Loss rate: 2.79%

Run 3: Report of Verus — Data Link

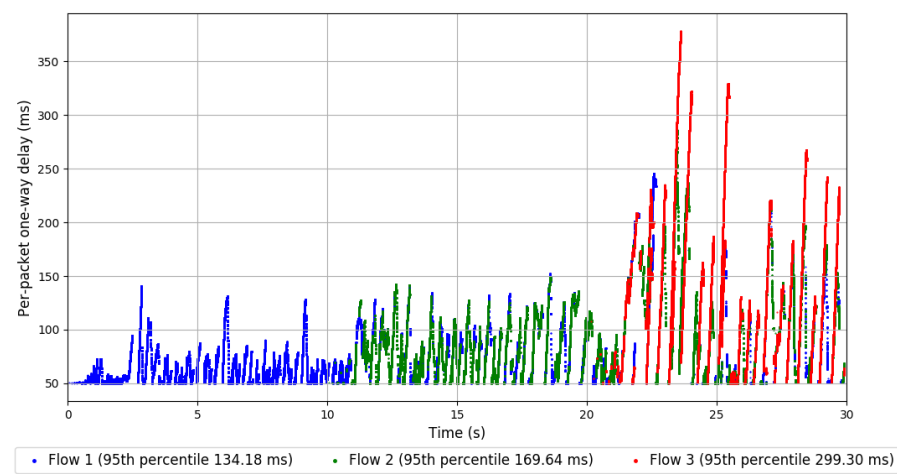
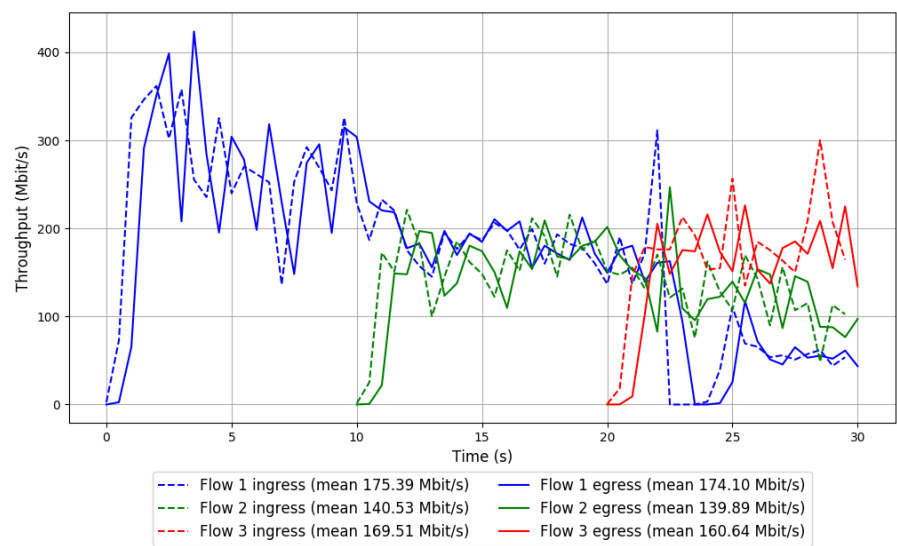


Run 4: Statistics of Verus

Start at: 2018-06-01 23:10:28
End at: 2018-06-01 23:10:58
Local clock offset: -0.105 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-02 03:56:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.39 Mbit/s
95th percentile per-packet one-way delay: 196.839 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 174.10 Mbit/s
95th percentile per-packet one-way delay: 134.176 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 139.89 Mbit/s
95th percentile per-packet one-way delay: 169.641 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 160.64 Mbit/s
95th percentile per-packet one-way delay: 299.299 ms
Loss rate: 6.77%

Run 4: Report of Verus — Data Link

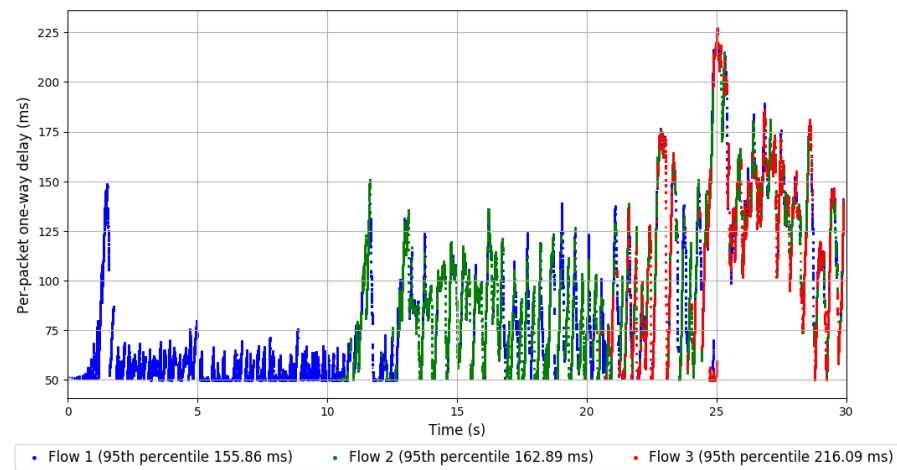
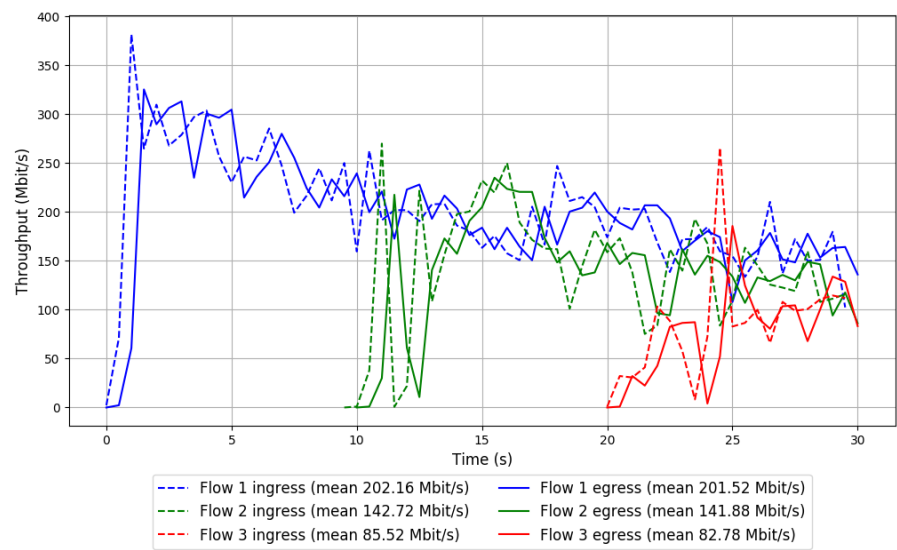


Run 5: Statistics of Verus

Start at: 2018-06-01 23:32:32
End at: 2018-06-01 23:33:02
Local clock offset: -0.119 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-06-02 03:58:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 322.91 Mbit/s
95th percentile per-packet one-way delay: 164.189 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 201.52 Mbit/s
95th percentile per-packet one-way delay: 155.858 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 141.88 Mbit/s
95th percentile per-packet one-way delay: 162.888 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 82.78 Mbit/s
95th percentile per-packet one-way delay: 216.088 ms
Loss rate: 3.91%

Run 5: Report of Verus — Data Link

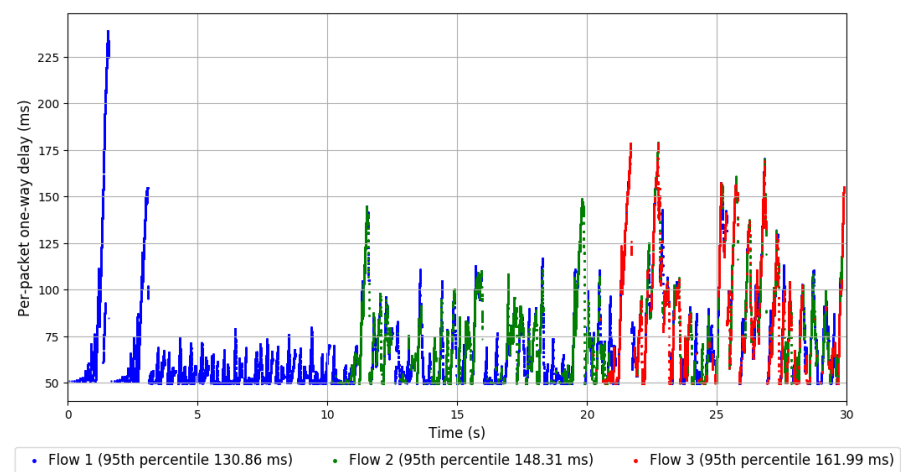
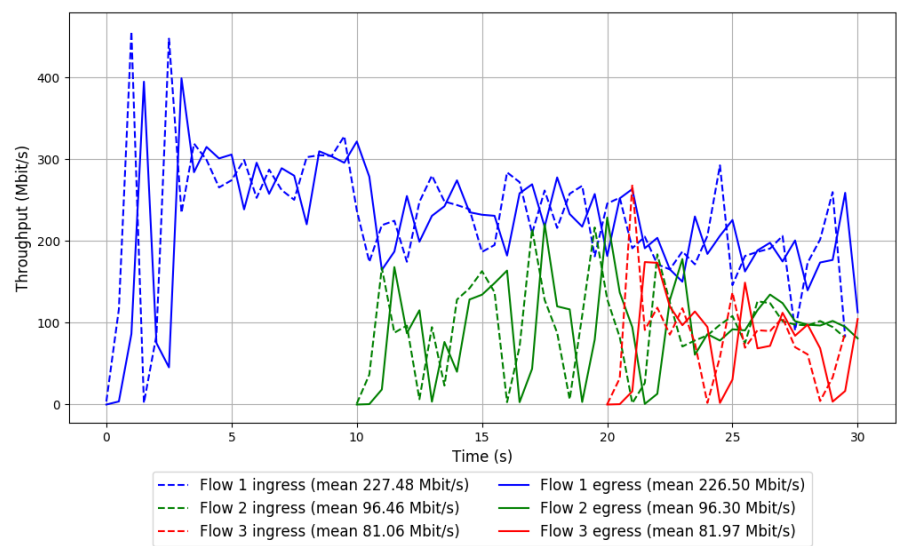


Run 6: Statistics of Verus

Start at: 2018-06-01 23:54:53
End at: 2018-06-01 23:55:23
Local clock offset: -0.074 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-02 03:59:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 316.78 Mbit/s
95th percentile per-packet one-way delay: 142.669 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 226.50 Mbit/s
95th percentile per-packet one-way delay: 130.862 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 148.313 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 161.989 ms
Loss rate: 0.04%

Run 6: Report of Verus — Data Link

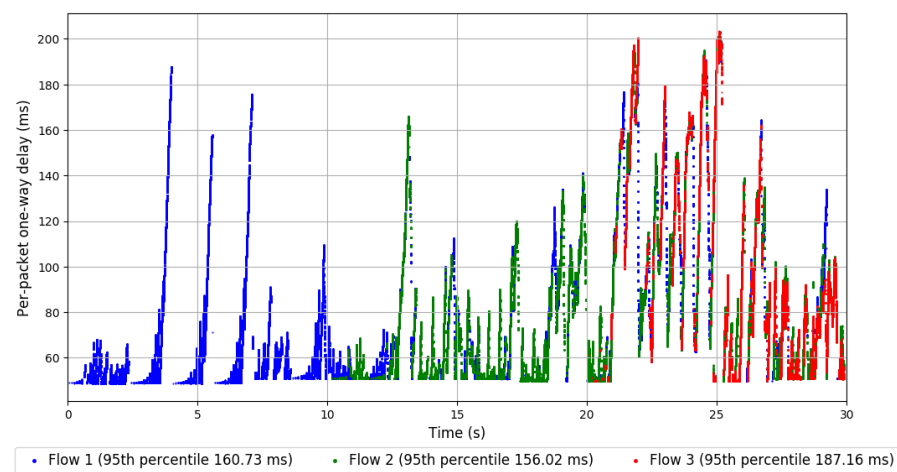
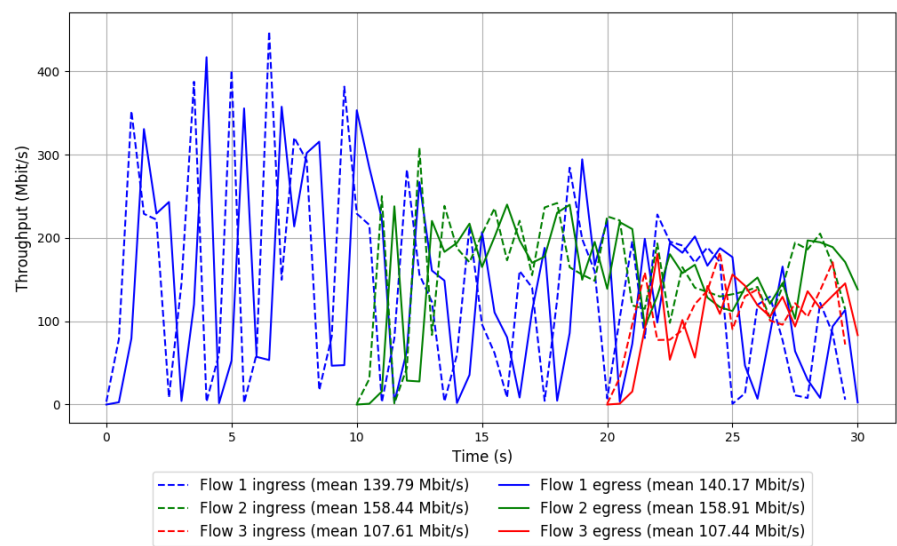


Run 7: Statistics of Verus

Start at: 2018-06-02 00:17:08
End at: 2018-06-02 00:17:38
Local clock offset: -0.098 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-02 03:59:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 280.72 Mbit/s
95th percentile per-packet one-way delay: 165.021 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 140.17 Mbit/s
95th percentile per-packet one-way delay: 160.732 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 158.91 Mbit/s
95th percentile per-packet one-way delay: 156.021 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 107.44 Mbit/s
95th percentile per-packet one-way delay: 187.157 ms
Loss rate: 1.25%

Run 7: Report of Verus — Data Link

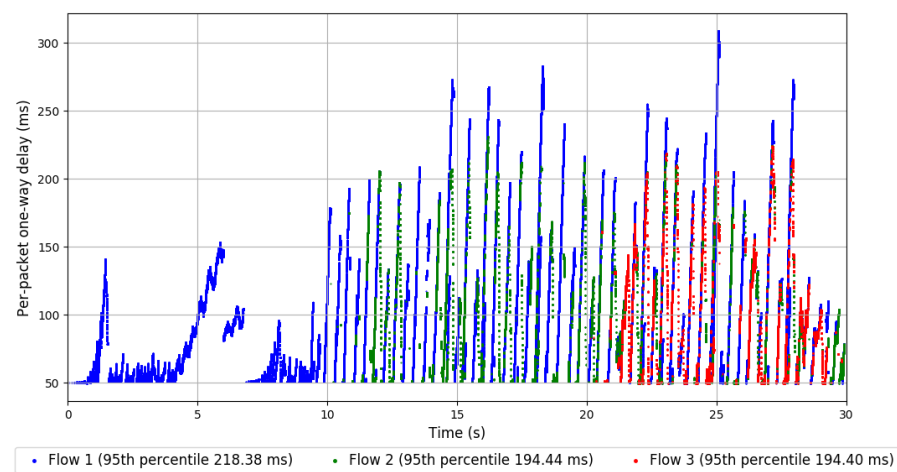
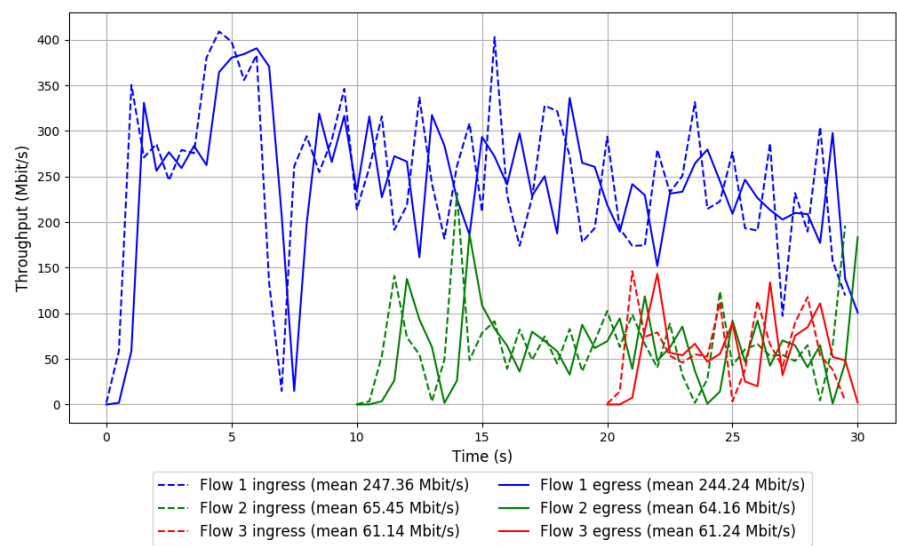


Run 8: Statistics of Verus

Start at: 2018-06-02 00:39:15
End at: 2018-06-02 00:39:45
Local clock offset: -0.418 ms
Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-02 03:59:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.60 Mbit/s
95th percentile per-packet one-way delay: 210.095 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 244.24 Mbit/s
95th percentile per-packet one-way delay: 218.384 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 64.16 Mbit/s
95th percentile per-packet one-way delay: 194.437 ms
Loss rate: 2.83%
-- Flow 3:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 194.397 ms
Loss rate: 1.19%

Run 8: Report of Verus — Data Link

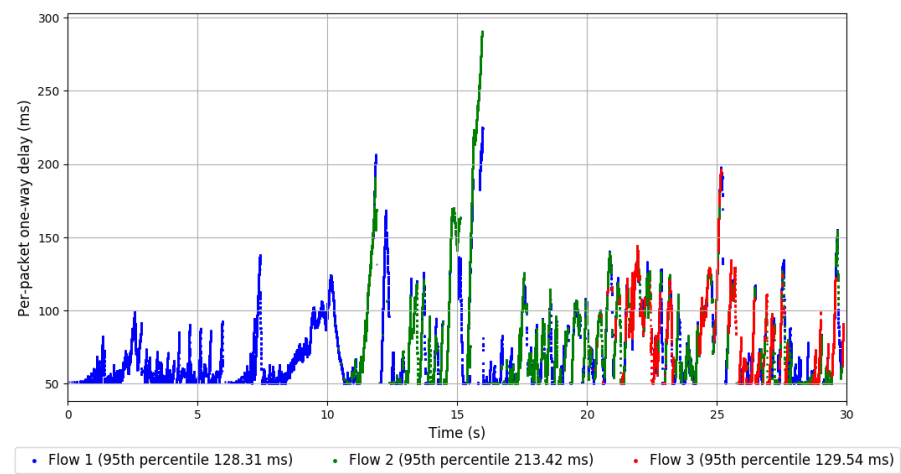
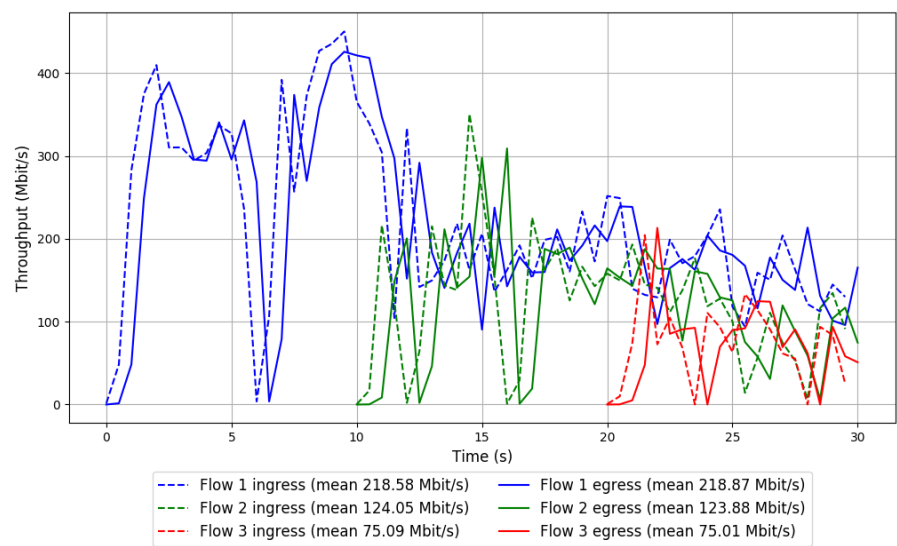


Run 9: Statistics of Verus

Start at: 2018-06-02 01:01:39
End at: 2018-06-02 01:02:09
Local clock offset: -0.019 ms
Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-02 04:01:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.16 Mbit/s
95th percentile per-packet one-way delay: 148.519 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 128.305 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 123.88 Mbit/s
95th percentile per-packet one-way delay: 213.422 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 129.544 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

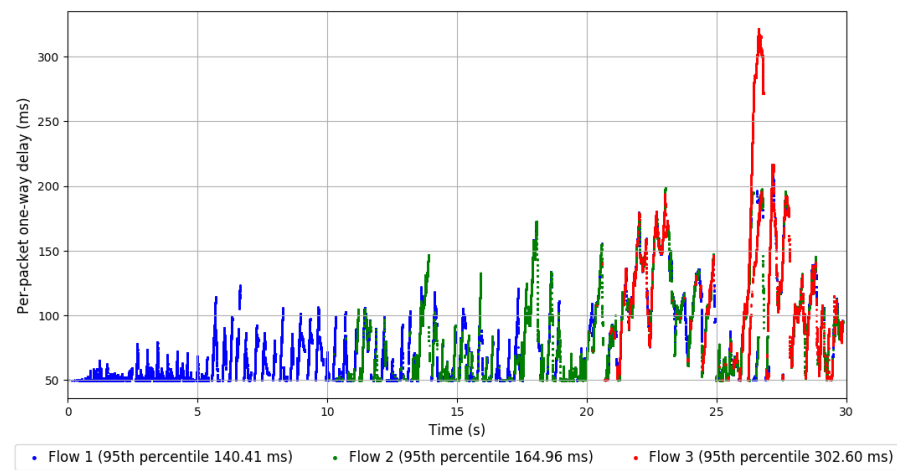
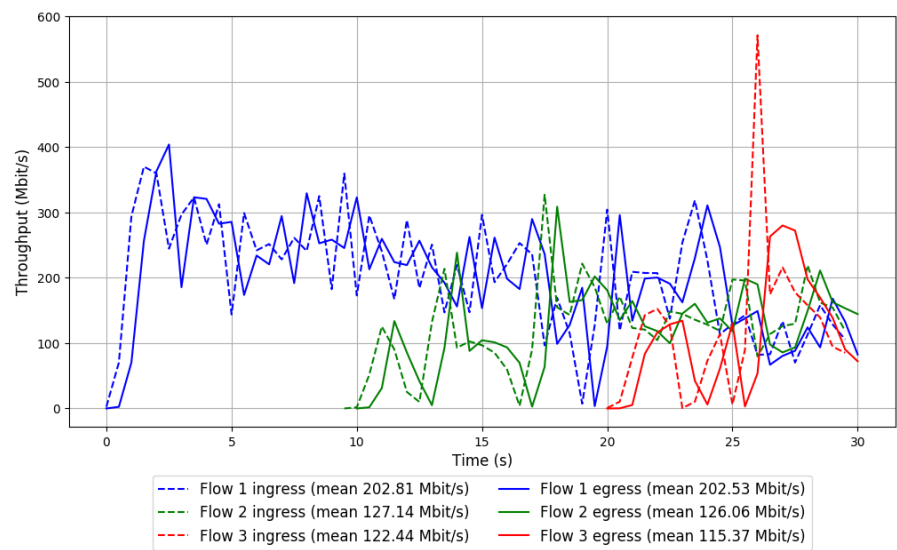


Run 10: Statistics of Verus

Start at: 2018-06-02 01:23:59
End at: 2018-06-02 01:24:29
Local clock offset: -0.459 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-02 04:01:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.09 Mbit/s
95th percentile per-packet one-way delay: 169.630 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 202.53 Mbit/s
95th percentile per-packet one-way delay: 140.413 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 126.06 Mbit/s
95th percentile per-packet one-way delay: 164.958 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 115.37 Mbit/s
95th percentile per-packet one-way delay: 302.599 ms
Loss rate: 7.11%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-01 22:15:21

End at: 2018-06-01 22:15:51

Local clock offset: -0.435 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-02 04:04:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.53 Mbit/s

95th percentile per-packet one-way delay: 144.190 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 263.78 Mbit/s

95th percentile per-packet one-way delay: 122.766 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 226.65 Mbit/s

95th percentile per-packet one-way delay: 214.656 ms

Loss rate: 1.53%

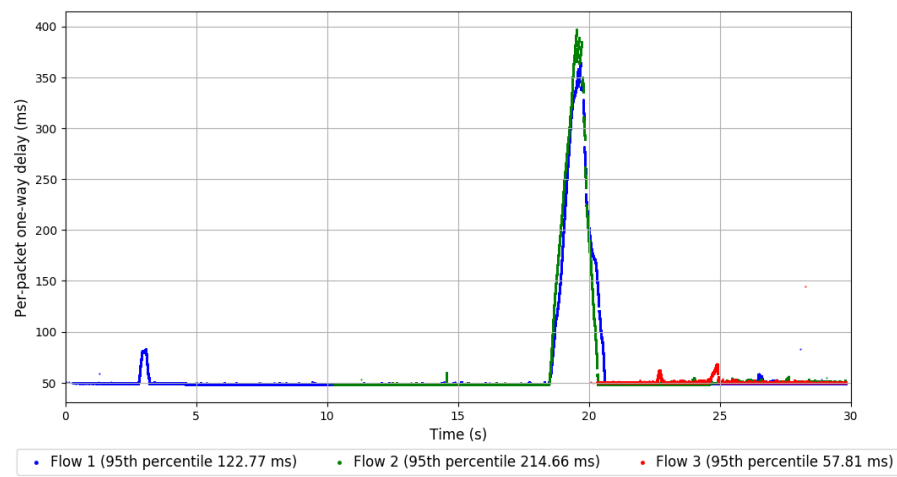
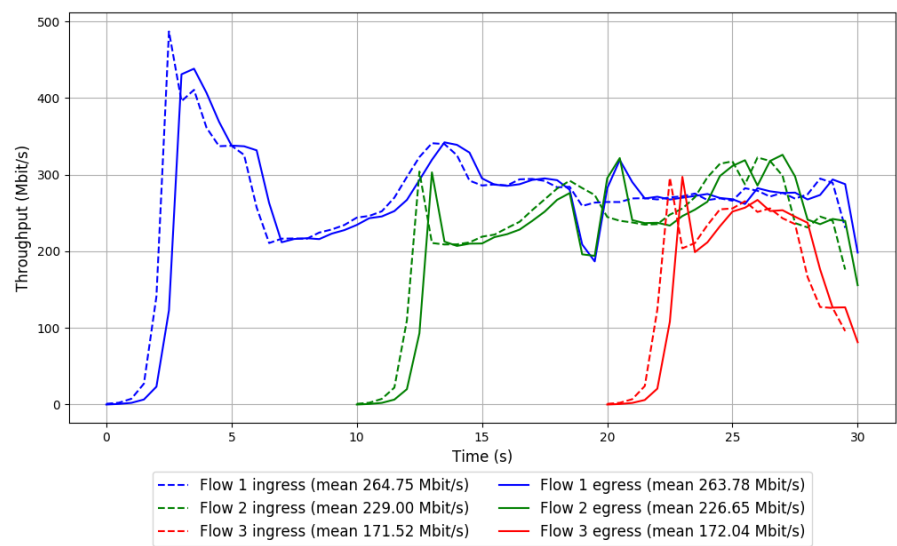
-- Flow 3:

Average throughput: 172.04 Mbit/s

95th percentile per-packet one-way delay: 57.806 ms

Loss rate: 0.81%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-01 22:37:49

End at: 2018-06-01 22:38:19

Local clock offset: -0.154 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-02 04:05:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.31 Mbit/s

95th percentile per-packet one-way delay: 53.435 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 254.39 Mbit/s

95th percentile per-packet one-way delay: 51.506 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 231.35 Mbit/s

95th percentile per-packet one-way delay: 53.642 ms

Loss rate: 0.63%

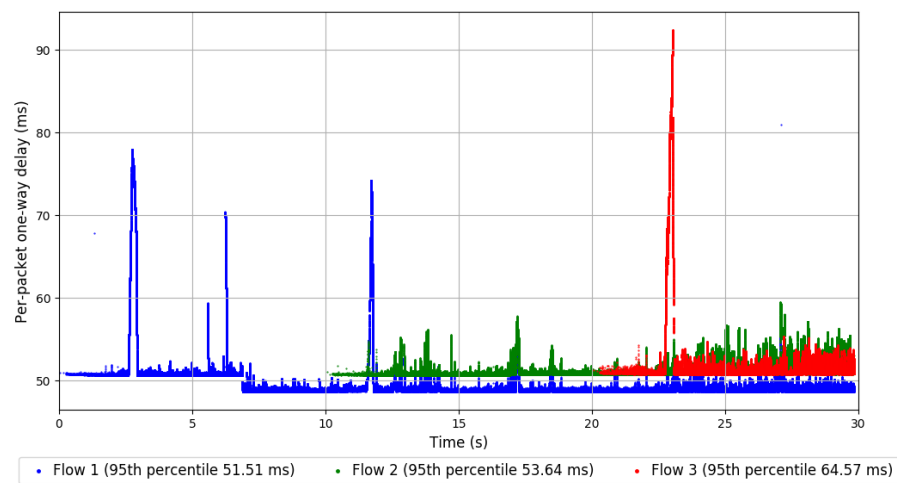
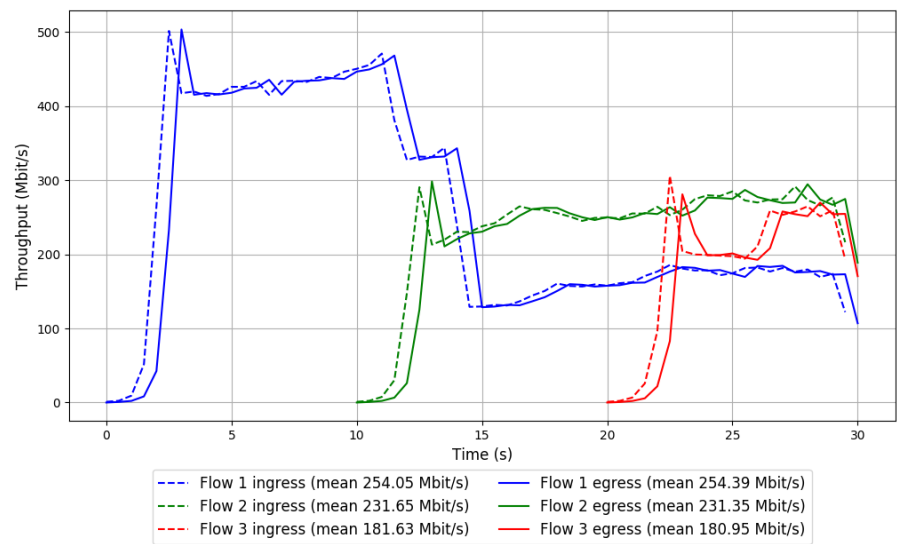
-- Flow 3:

Average throughput: 180.95 Mbit/s

95th percentile per-packet one-way delay: 64.572 ms

Loss rate: 1.41%

Run 2: Report of PCC-Vivace — Data Link

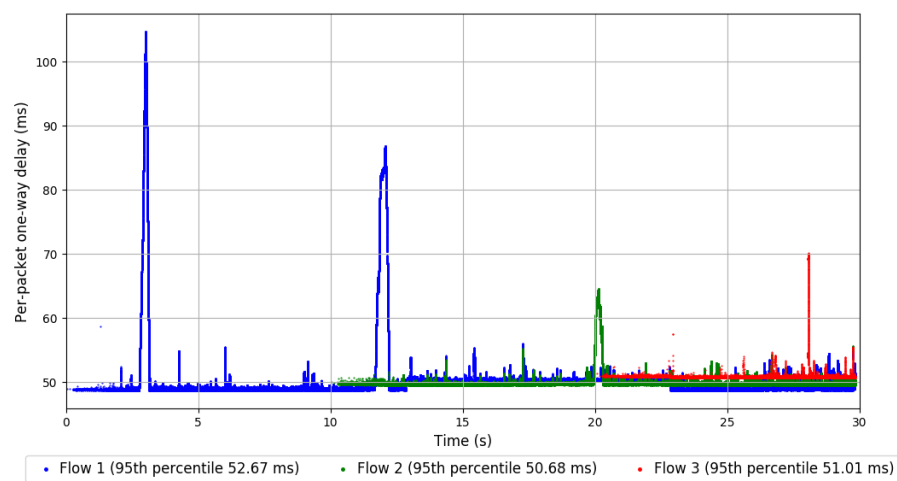
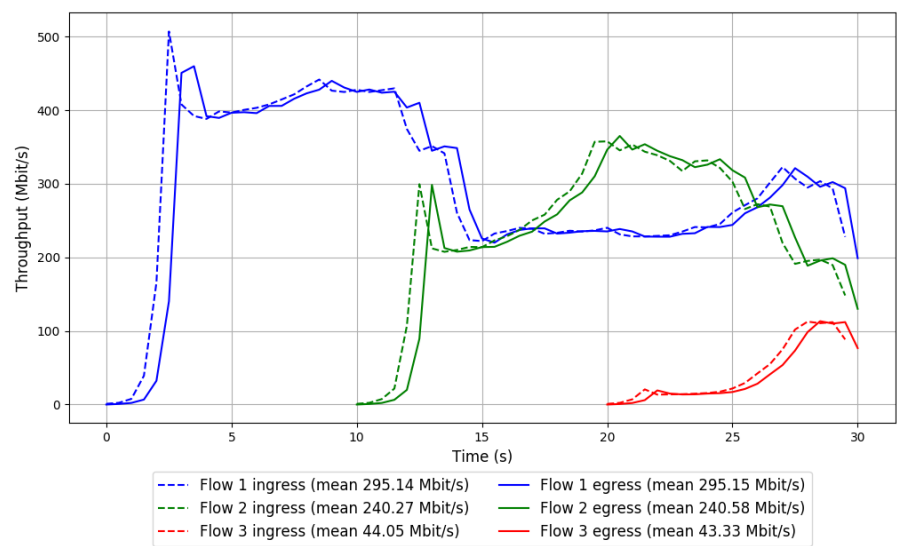


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-01 23:00:13
End at: 2018-06-01 23:00:43
Local clock offset: -0.119 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-02 04:06:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 469.13 Mbit/s
95th percentile per-packet one-way delay: 51.597 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 295.15 Mbit/s
95th percentile per-packet one-way delay: 52.674 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 240.58 Mbit/s
95th percentile per-packet one-way delay: 50.676 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 43.33 Mbit/s
95th percentile per-packet one-way delay: 51.008 ms
Loss rate: 2.66%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-01 23:22:30

End at: 2018-06-01 23:23:00

Local clock offset: -0.09 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-02 04:06:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.18 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 166.43 Mbit/s

95th percentile per-packet one-way delay: 50.912 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 193.22 Mbit/s

95th percentile per-packet one-way delay: 50.304 ms

Loss rate: 0.53%

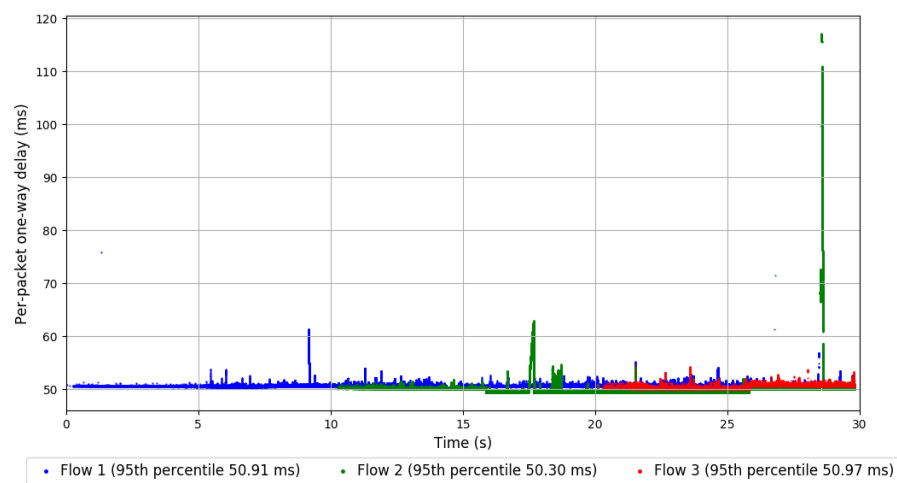
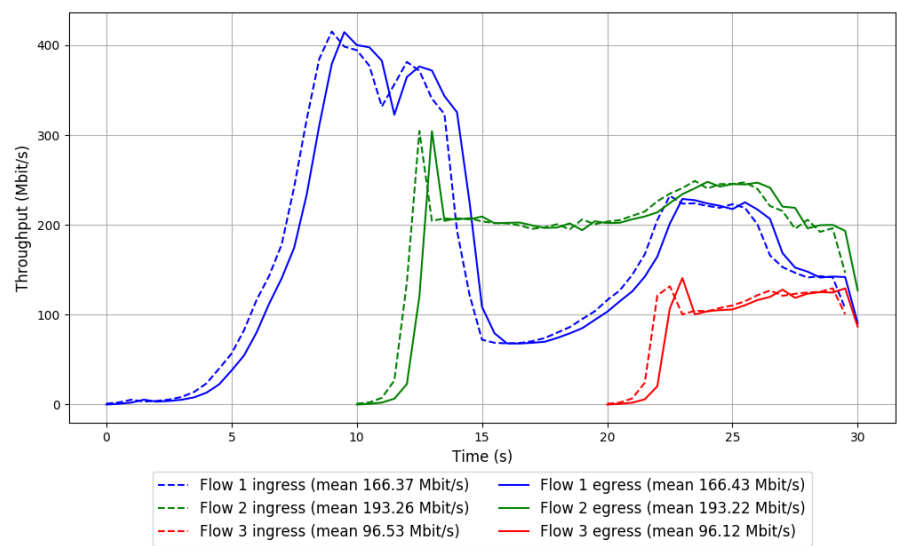
-- Flow 3:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 50.973 ms

Loss rate: 1.45%

Run 4: Report of PCC-Vivace — Data Link

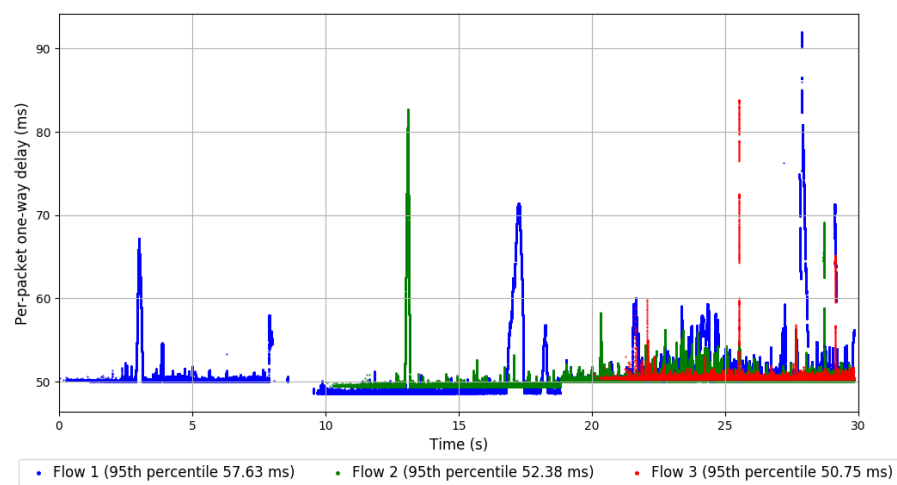
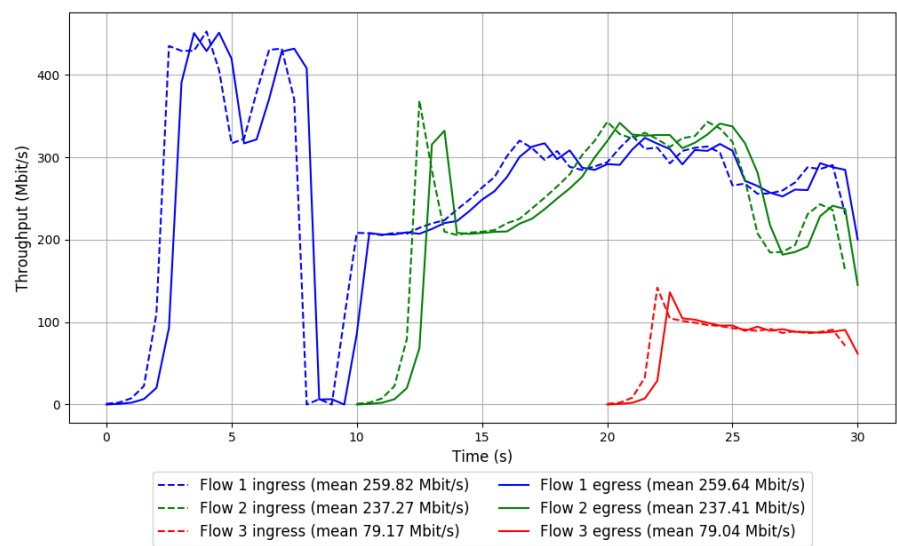


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-01 23:44:37
End at: 2018-06-01 23:45:07
Local clock offset: -0.14 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-02 04:07:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 443.15 Mbit/s
95th percentile per-packet one-way delay: 55.859 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 259.64 Mbit/s
95th percentile per-packet one-way delay: 57.632 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 237.41 Mbit/s
95th percentile per-packet one-way delay: 52.380 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 1.18%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-02 00:06:51

End at: 2018-06-02 00:07:21

Local clock offset: -0.116 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-02 04:07:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.10 Mbit/s

95th percentile per-packet one-way delay: 64.019 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 290.89 Mbit/s

95th percentile per-packet one-way delay: 54.557 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 181.17 Mbit/s

95th percentile per-packet one-way delay: 180.761 ms

Loss rate: 1.09%

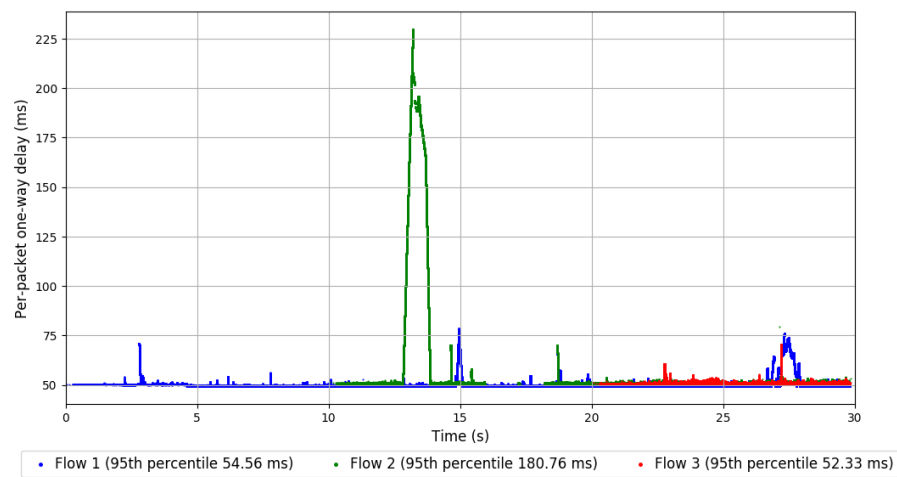
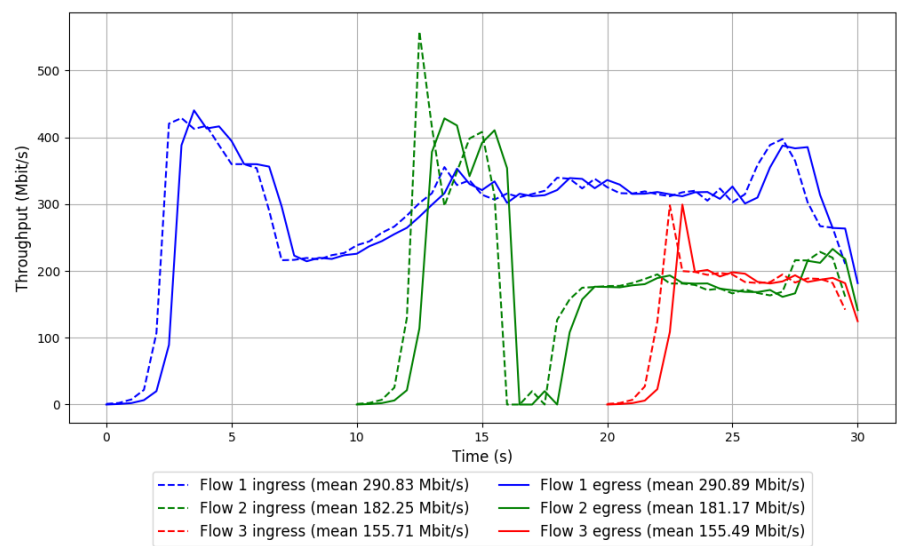
-- Flow 3:

Average throughput: 155.49 Mbit/s

95th percentile per-packet one-way delay: 52.332 ms

Loss rate: 1.17%

Run 6: Report of PCC-Vivace — Data Link

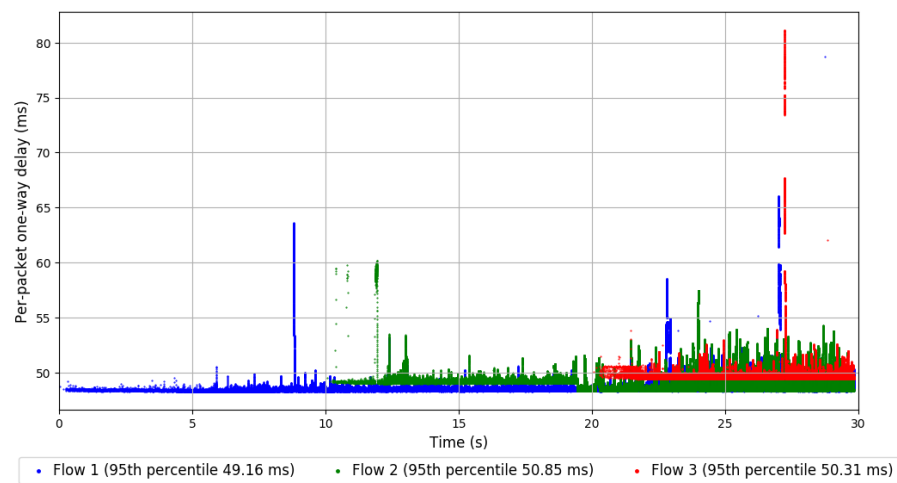
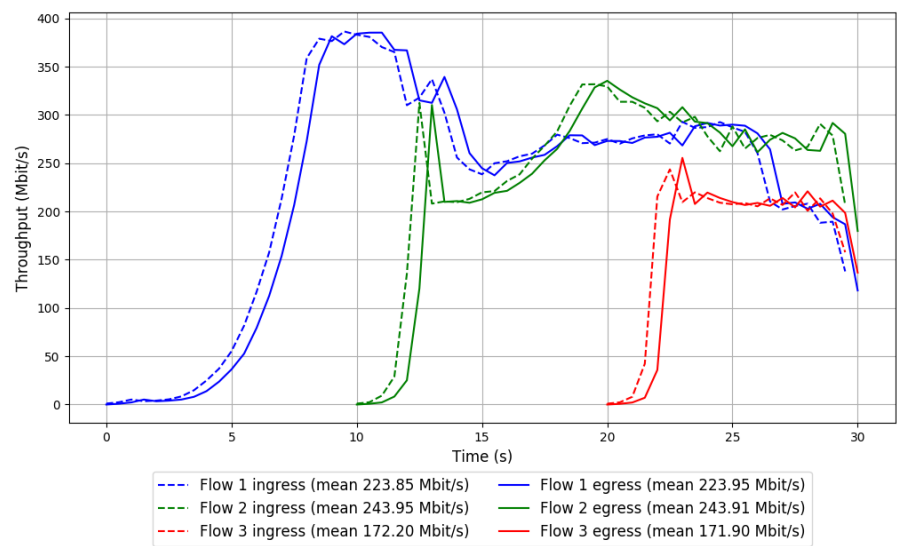


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-02 00:29:06
End at: 2018-06-02 00:29:36
Local clock offset: -0.489 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-02 04:08:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.16 Mbit/s
95th percentile per-packet one-way delay: 50.212 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 223.95 Mbit/s
95th percentile per-packet one-way delay: 49.162 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 243.91 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 171.90 Mbit/s
95th percentile per-packet one-way delay: 50.311 ms
Loss rate: 1.20%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-02 00:51:14

End at: 2018-06-02 00:51:44

Local clock offset: -0.073 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-02 04:08:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 439.48 Mbit/s

95th percentile per-packet one-way delay: 59.635 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 232.09 Mbit/s

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 213.23 Mbit/s

95th percentile per-packet one-way delay: 119.626 ms

Loss rate: 0.46%

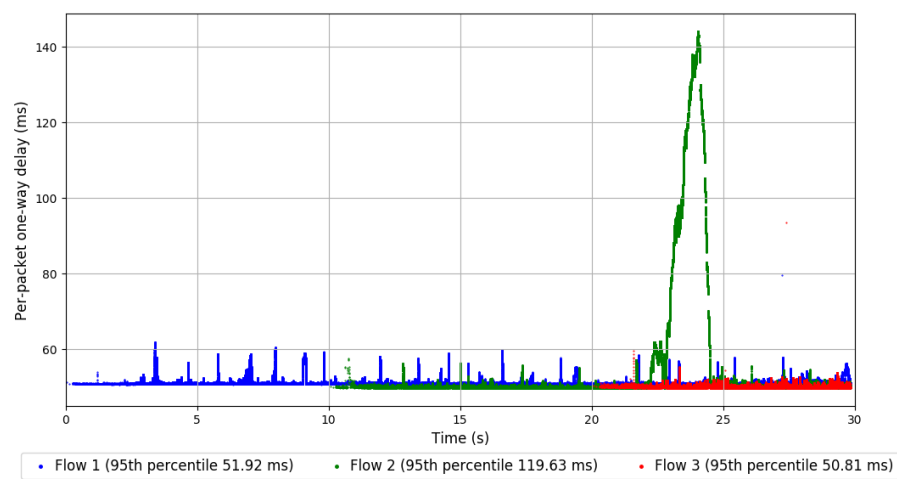
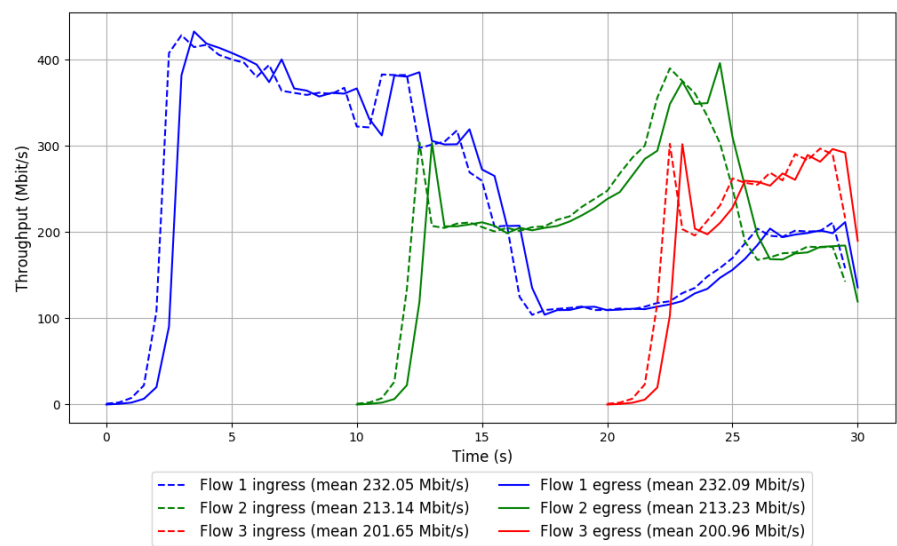
-- Flow 3:

Average throughput: 200.96 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 1.35%

Run 8: Report of PCC-Vivace — Data Link

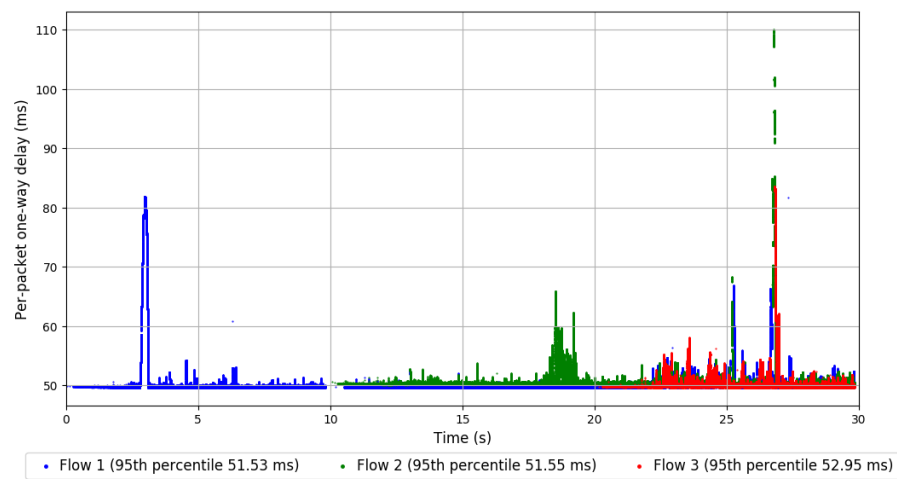
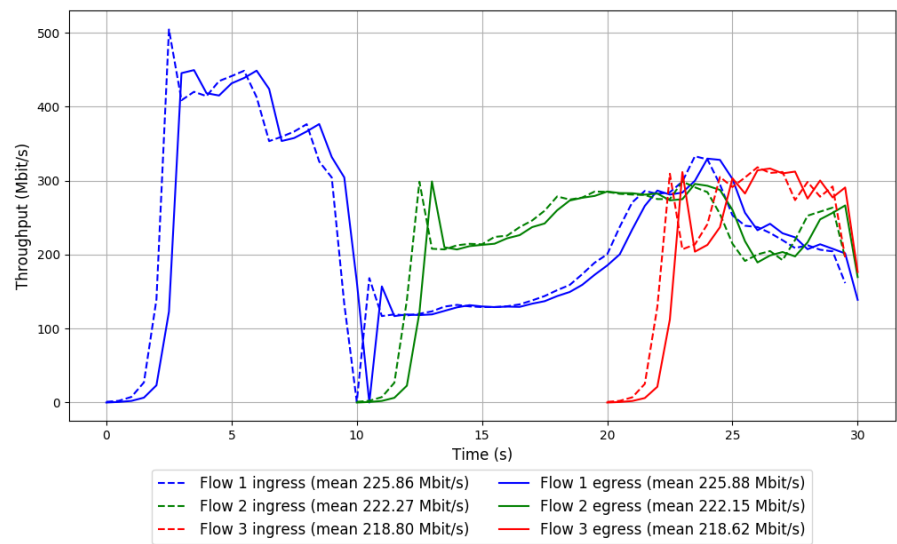


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-02 01:13:41
End at: 2018-06-02 01:14:11
Local clock offset: -0.465 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-02 04:08:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 445.00 Mbit/s
95th percentile per-packet one-way delay: 51.814 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 225.88 Mbit/s
95th percentile per-packet one-way delay: 51.529 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 222.15 Mbit/s
95th percentile per-packet one-way delay: 51.545 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 218.62 Mbit/s
95th percentile per-packet one-way delay: 52.954 ms
Loss rate: 1.14%

Run 9: Report of PCC-Vivace — Data Link

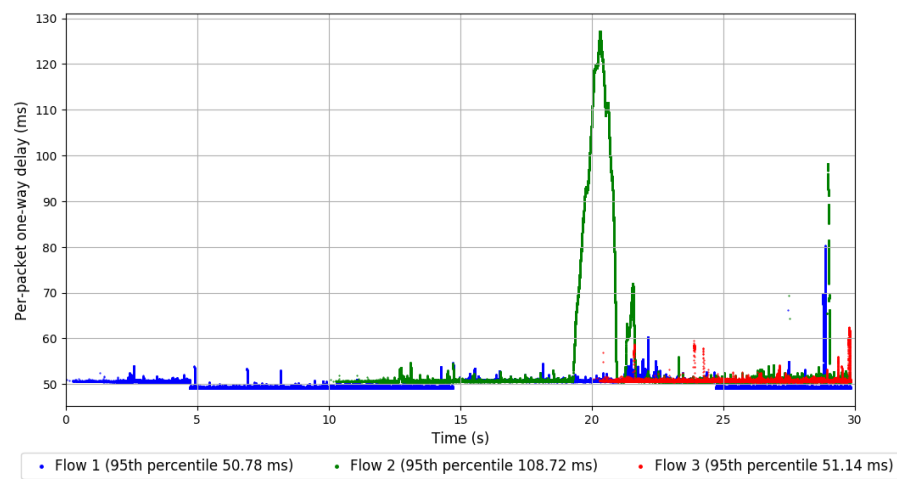
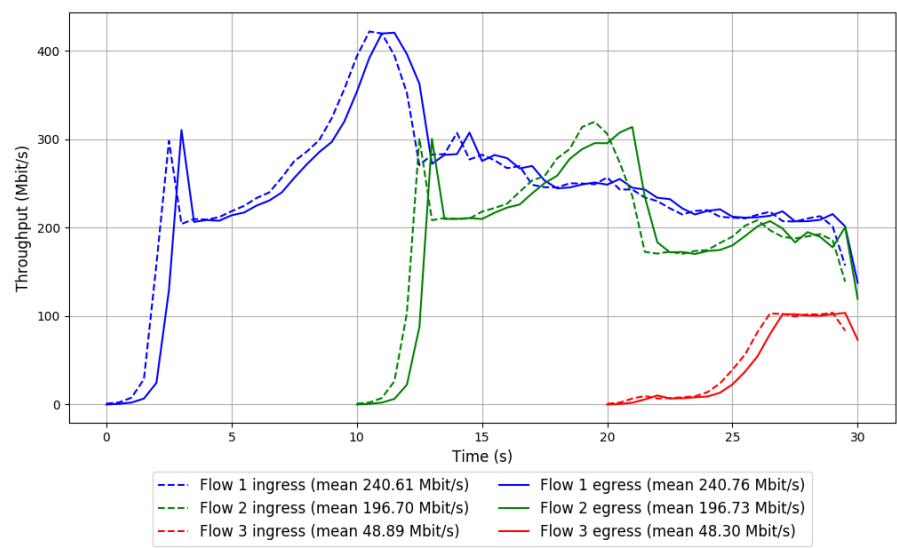


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-02 01:36:01
End at: 2018-06-02 01:36:31
Local clock offset: 0.307 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-02 04:08:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 387.17 Mbit/s
95th percentile per-packet one-way delay: 59.928 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 240.76 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 196.73 Mbit/s
95th percentile per-packet one-way delay: 108.722 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 51.142 ms
Loss rate: 2.22%

Run 10: Report of PCC-Vivace — Data Link

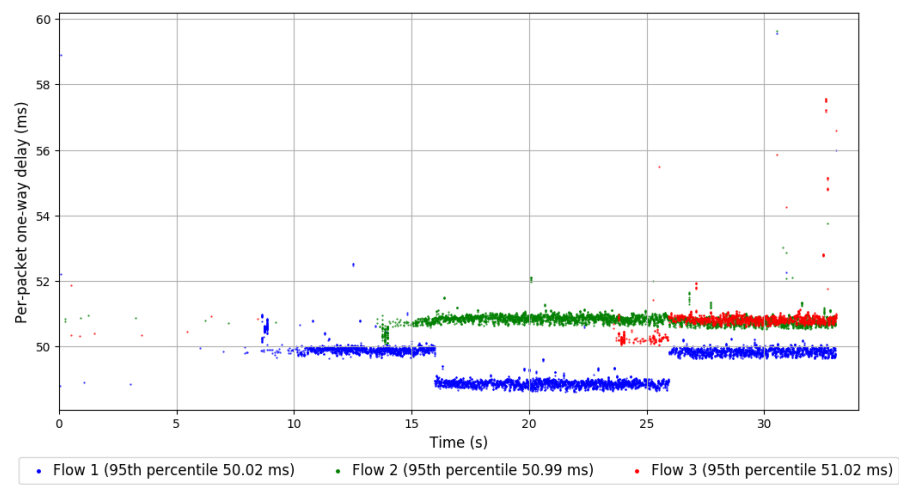
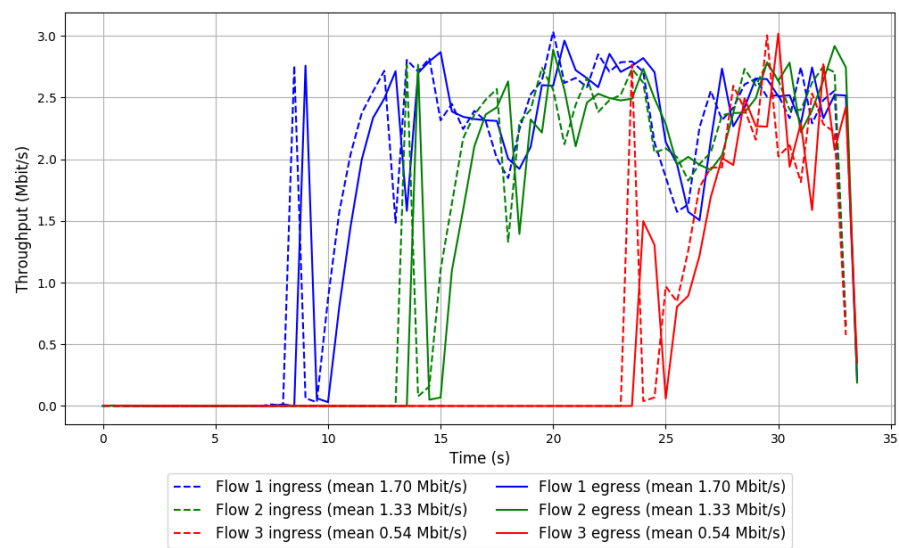


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-01 22:11:13
End at: 2018-06-01 22:11:43
Local clock offset: -0.149 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-02 04:08:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 50.958 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 50.018 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 50.993 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 51.021 ms
Loss rate: 1.13%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-01 22:33:39

End at: 2018-06-01 22:34:09

Local clock offset: -0.136 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-02 04:08:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 51.189 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 51.170 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 51.525 ms

Loss rate: 0.56%

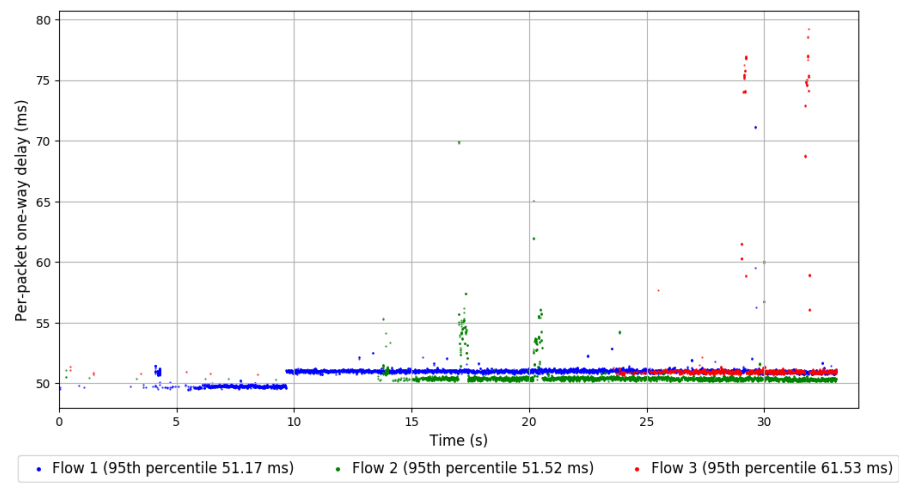
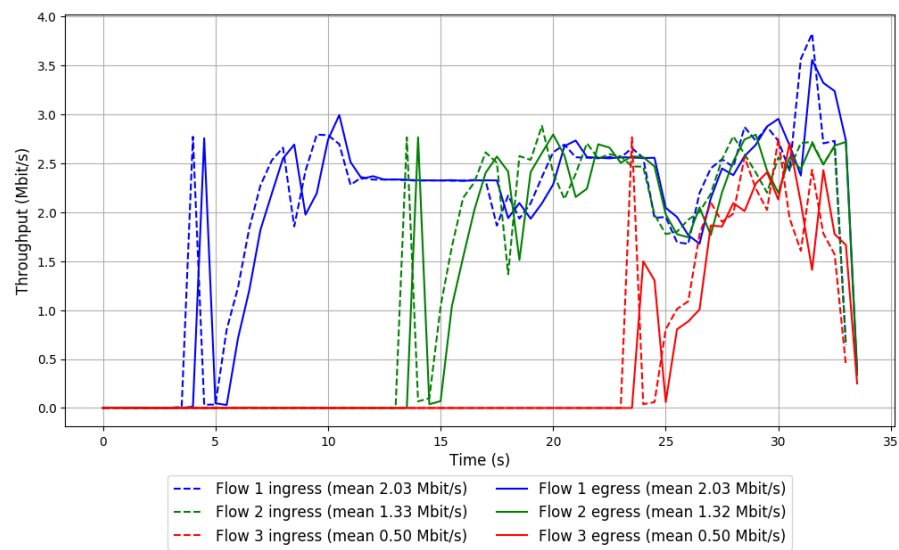
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 61.533 ms

Loss rate: 0.99%

Run 2: Report of WebRTC media — Data Link

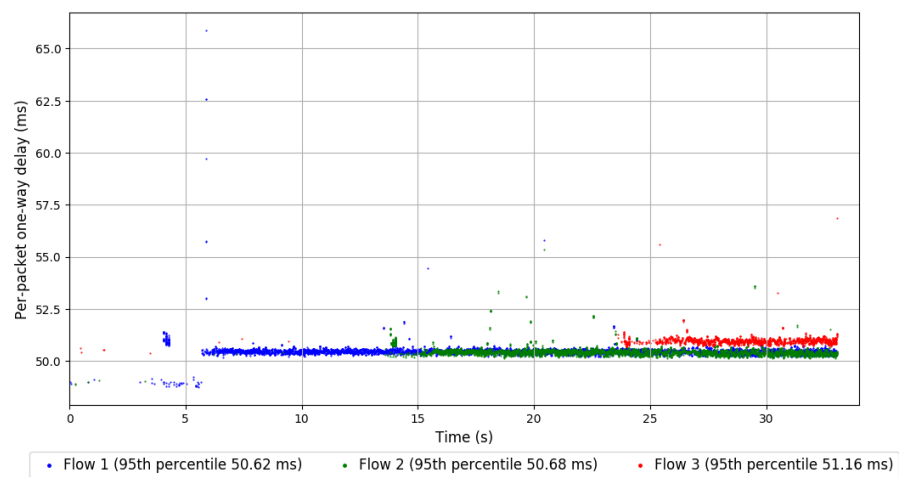
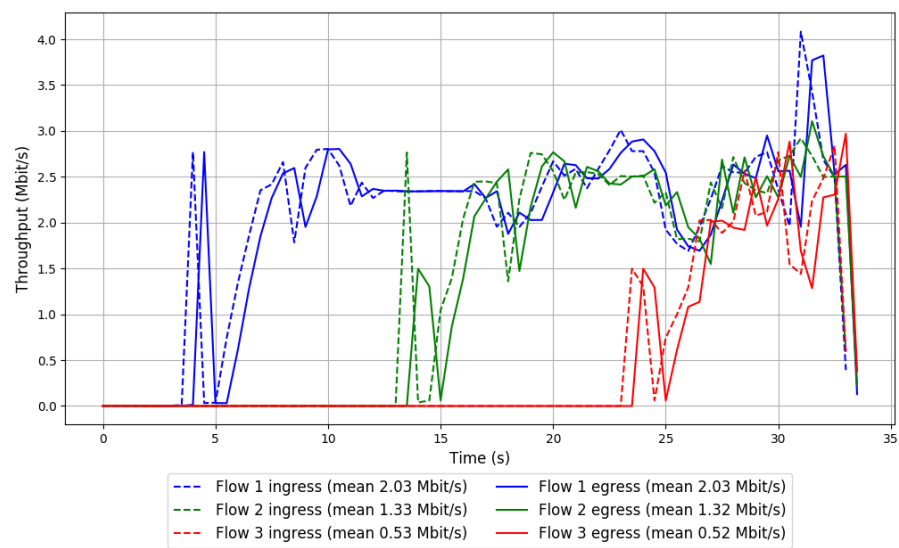


Run 3: Statistics of WebRTC media

Start at: 2018-06-01 22:56:03
End at: 2018-06-01 22:56:33
Local clock offset: -0.08 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-02 04:08:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 50.618 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 50.676 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 51.161 ms
Loss rate: 1.21%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-01 23:18:23

End at: 2018-06-01 23:18:53

Local clock offset: -0.115 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-02 04:08:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 50.967 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 50.998 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 50.502 ms

Loss rate: 0.48%

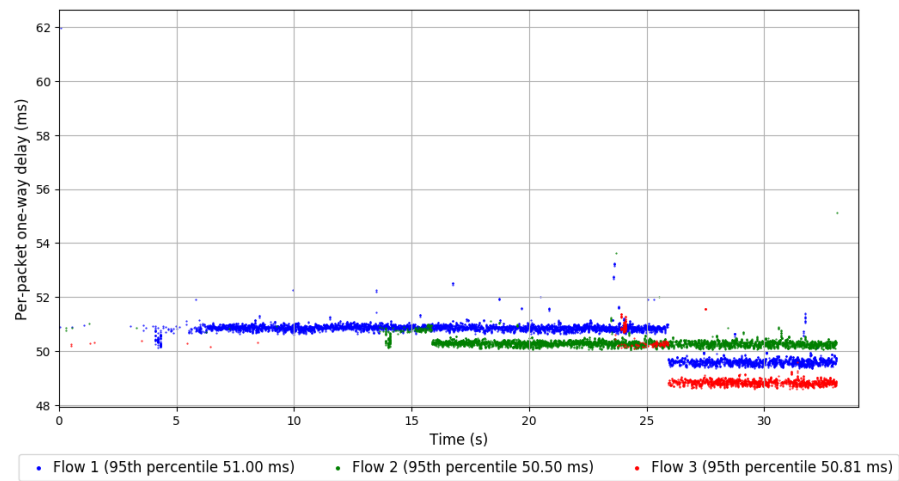
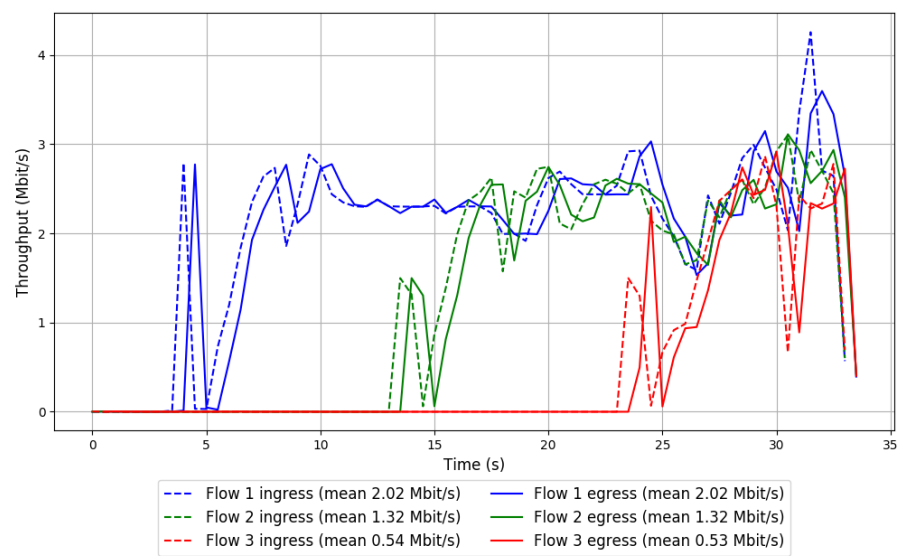
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 1.48%

Run 4: Report of WebRTC media — Data Link

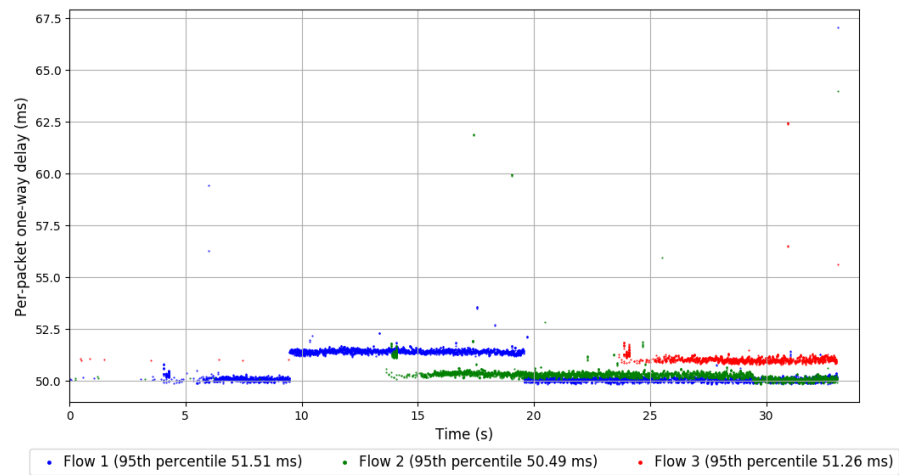
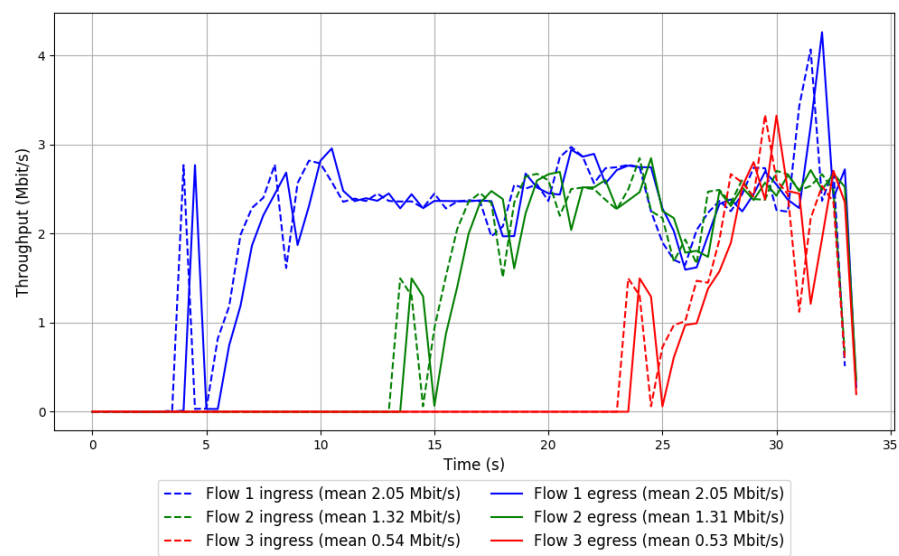


Run 5: Statistics of WebRTC media

Start at: 2018-06-01 23:40:29
End at: 2018-06-01 23:40:59
Local clock offset: 0.29 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-02 04:08:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.473 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 51.505 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 50.489 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 51.263 ms
Loss rate: 1.59%

Run 5: Report of WebRTC media — Data Link

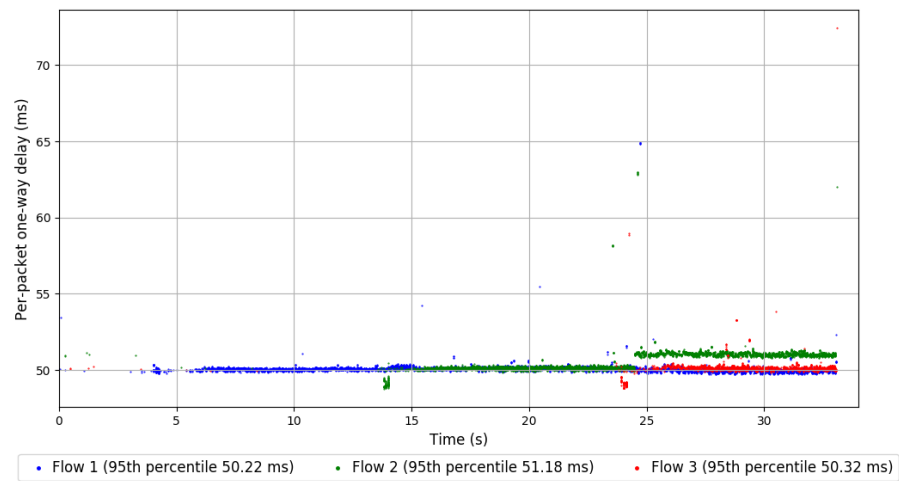
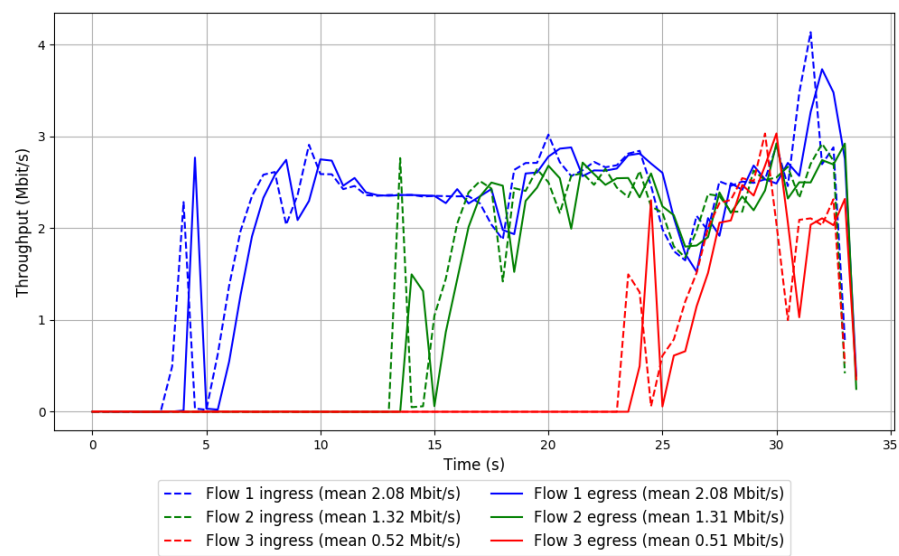


Run 6: Statistics of WebRTC media

Start at: 2018-06-02 00:02:44
End at: 2018-06-02 00:03:14
Local clock offset: -0.09 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-02 04:08:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 51.085 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 50.220 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 51.176 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 1.05%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-02 00:24:58

End at: 2018-06-02 00:25:28

Local clock offset: -0.103 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-02 04:08:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 50.014 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 49.056 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 50.083 ms

Loss rate: 0.49%

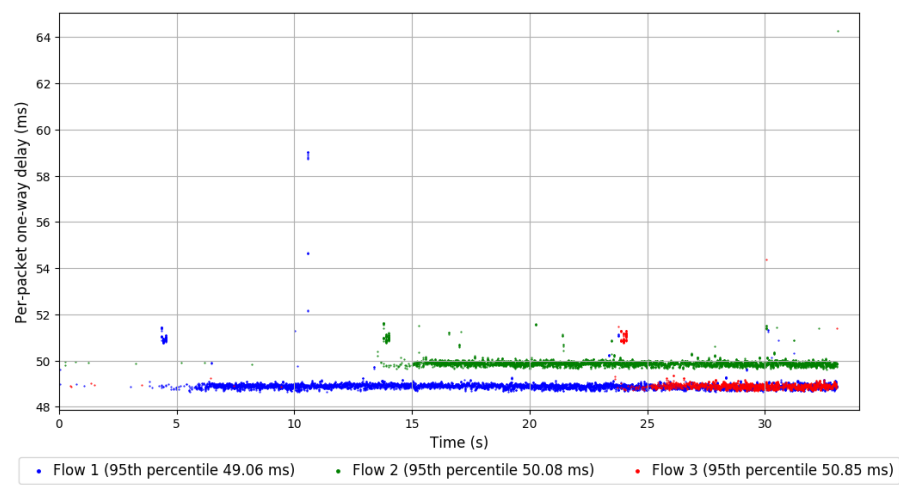
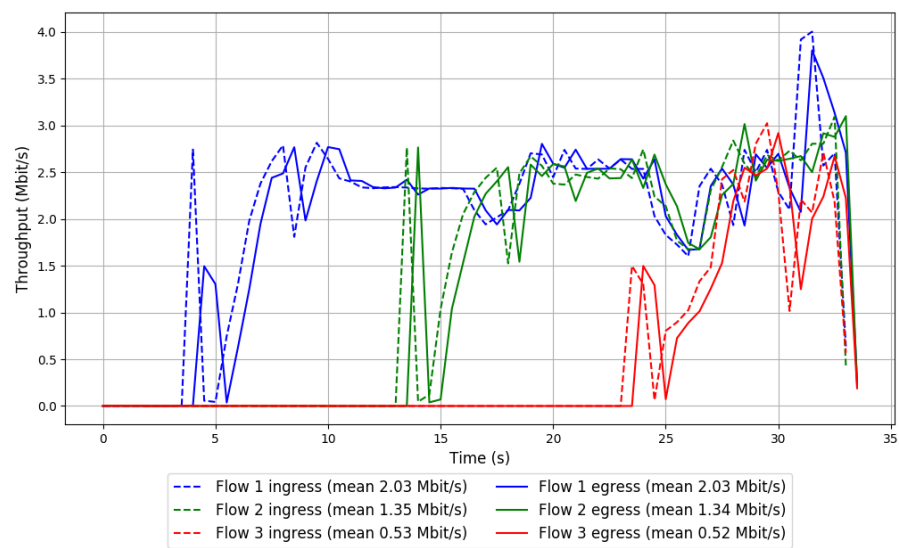
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.853 ms

Loss rate: 1.60%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-02 00:47:09

End at: 2018-06-02 00:47:39

Local clock offset: -0.025 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-02 04:08:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 51.154 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 51.172 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 51.074 ms

Loss rate: 0.68%

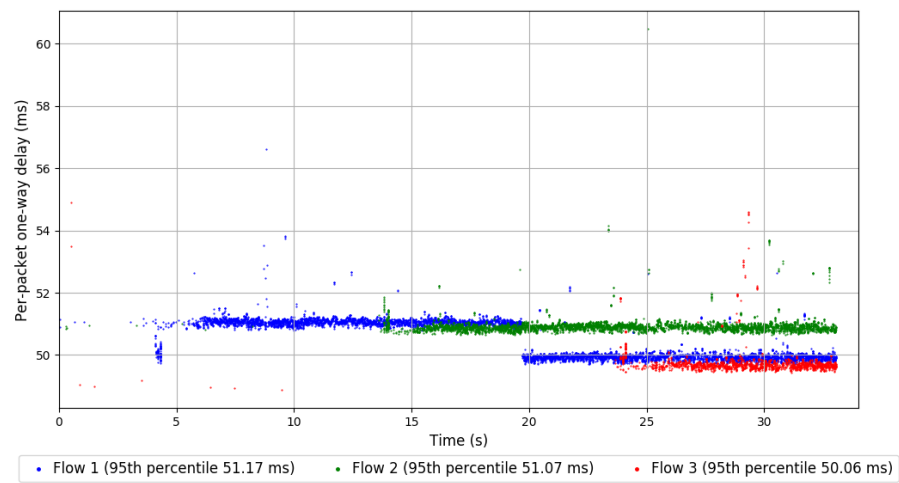
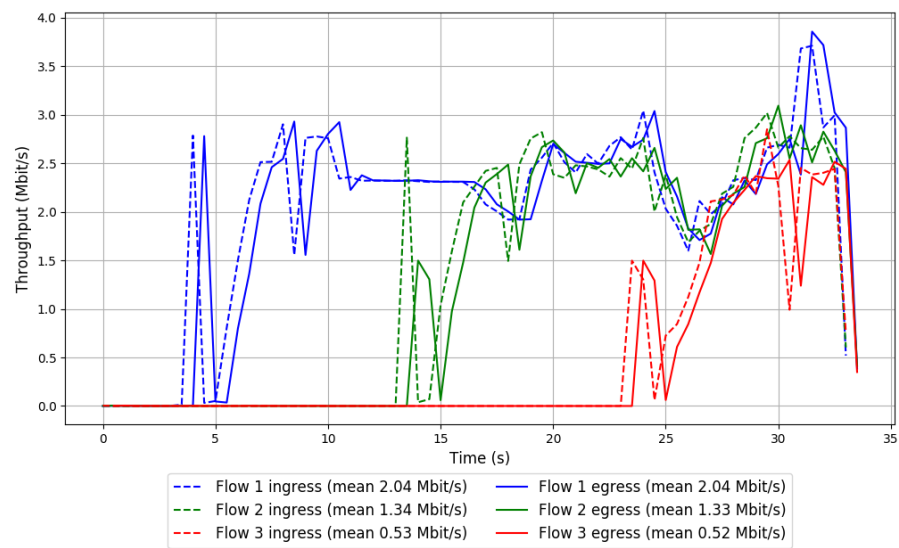
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.058 ms

Loss rate: 1.68%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-02 01:09:32

End at: 2018-06-02 01:10:02

Local clock offset: -0.008 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-02 04:08:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 50.437 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 50.160 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 49.932 ms

Loss rate: 0.67%

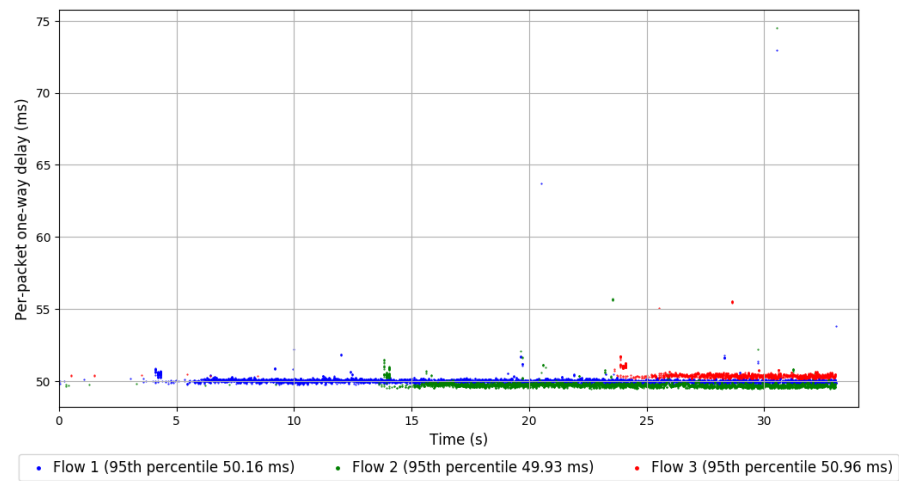
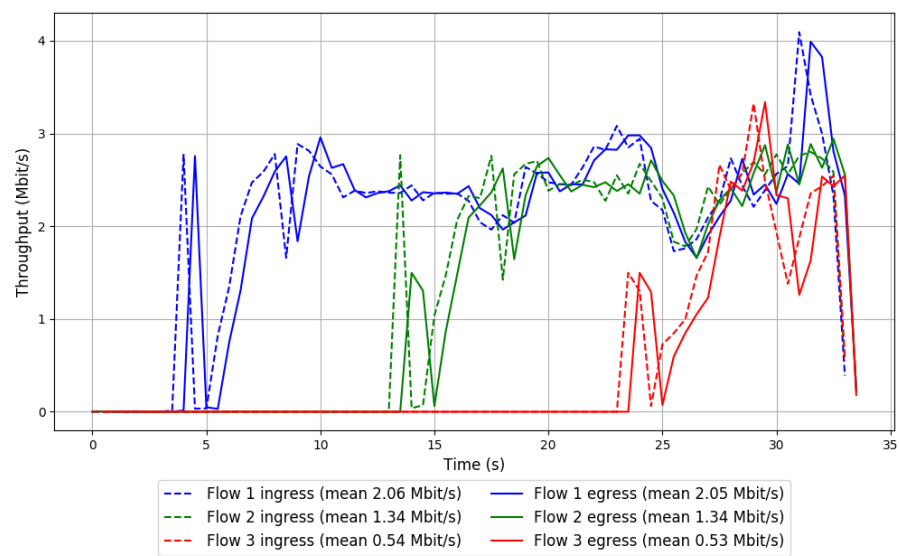
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 1.56%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-02 01:31:53
End at: 2018-06-02 01:32:23
Local clock offset: -0.069 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-02 04:08:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 50.545 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.552 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 50.553 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 50.138 ms
Loss rate: 1.66%

Run 10: Report of WebRTC media — Data Link

