

Pantheon Report

Generated at 2018-06-07 22:41:54 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

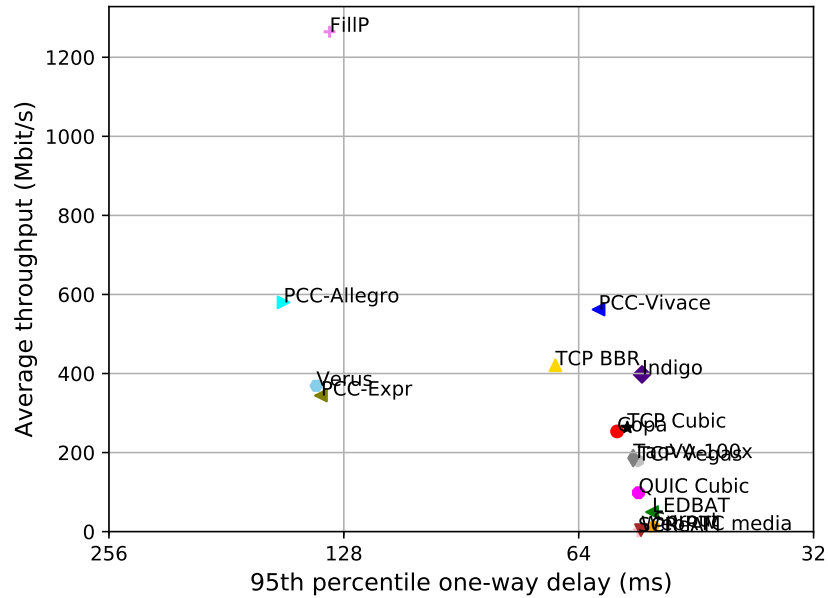
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

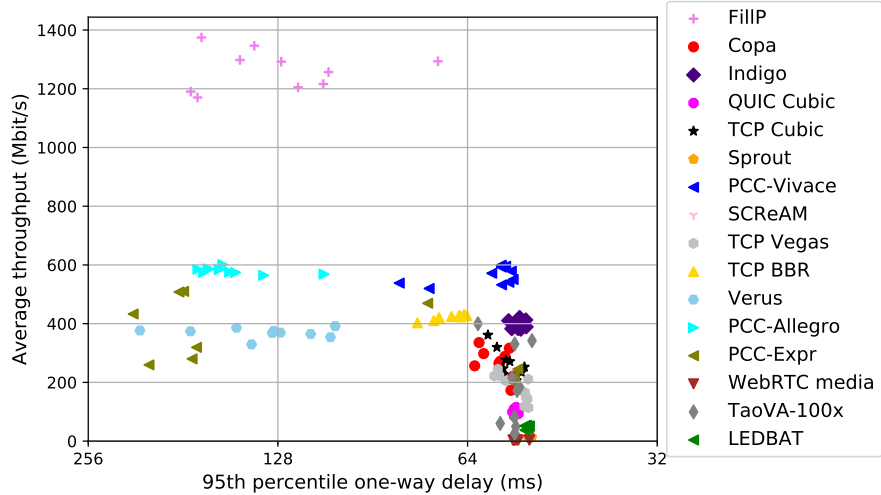
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 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 Tokyo to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



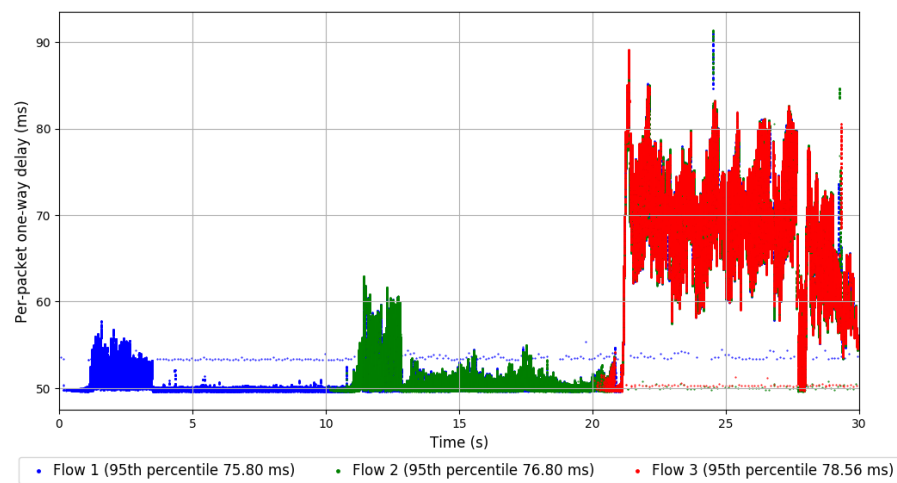
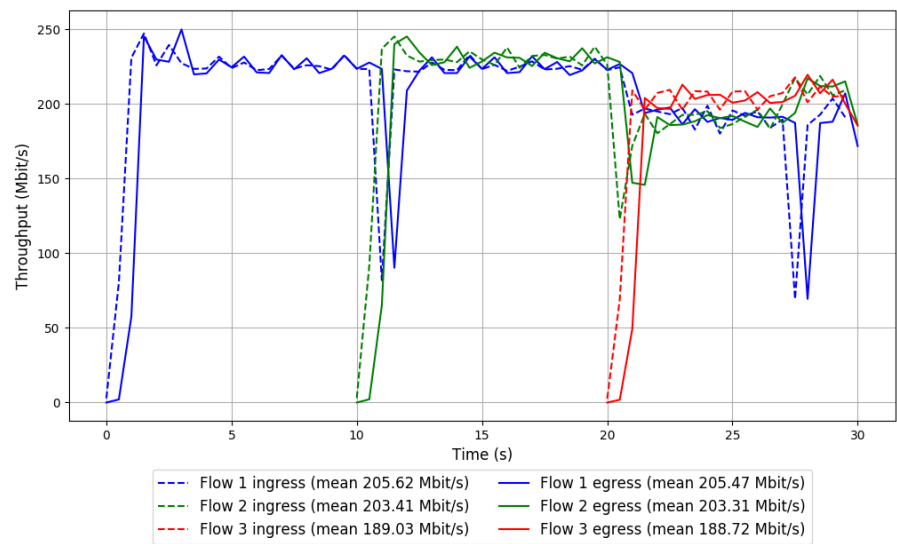
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	215.31	209.81	200.40	67.00	68.40	70.81	0.37	0.56	1.20
Copa	10	141.94	132.58	70.94	56.35	58.05	54.59	0.36	0.51	1.35
TCP Cubic	10	166.55	112.62	66.61	55.05	55.52	55.07	0.39	1.14	2.41
FillP	10	695.31	607.56	503.29	125.31	134.77	102.91	1.51	0.87	1.94
Indigo	10	212.68	196.63	166.13	52.58	53.22	53.88	0.34	0.48	1.17
LEDBAT	10	33.49	18.84	10.80	51.60	51.34	51.28	0.68	1.27	2.11
PCC-Allegro	10	553.72	27.83	23.93	153.11	149.43	128.24	1.99	2.05	2.61
PCC-Expr	10	206.36	155.93	104.96	124.99	125.70	113.70	2.26	2.75	3.69
QUIC Cubic	10	57.79	44.79	32.79	52.34	52.88	53.03	0.45	0.82	0.92
SCReAM	10	0.21	0.21	0.22	52.99	52.36	52.97	0.34	0.61	0.98
Sprout	10	6.47	6.91	6.13	52.18	50.99	51.26	0.36	0.44	1.46
TaoVA-100x	10	100.66	101.96	116.78	53.12	54.18	56.79	0.25	0.37	0.61
TCP Vegas	10	105.68	61.43	100.86	53.34	53.19	54.19	0.30	0.67	1.20
Verus	10	225.23	164.09	108.66	126.15	141.61	156.58	0.67	1.75	2.17
PCC-Vivace	10	334.86	266.56	152.97	59.64	69.72	54.14	0.30	0.73	1.36
WebRTC media	10	2.02	1.32	0.55	52.15	52.86	52.43	0.35	0.65	1.51

Run 1: Statistics of TCP BBR

Start at: 2018-06-07 16:38:30
End at: 2018-06-07 16:39:00
Local clock offset: -0.238 ms
Remote clock offset: -0.707 ms

Below is generated by plot.py at 2018-06-07 20:40:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.98 Mbit/s
95th percentile per-packet one-way delay: 76.868 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 205.47 Mbit/s
95th percentile per-packet one-way delay: 75.798 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 203.31 Mbit/s
95th percentile per-packet one-way delay: 76.797 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 188.72 Mbit/s
95th percentile per-packet one-way delay: 78.562 ms
Loss rate: 1.18%

Run 1: Report of TCP BBR — Data Link

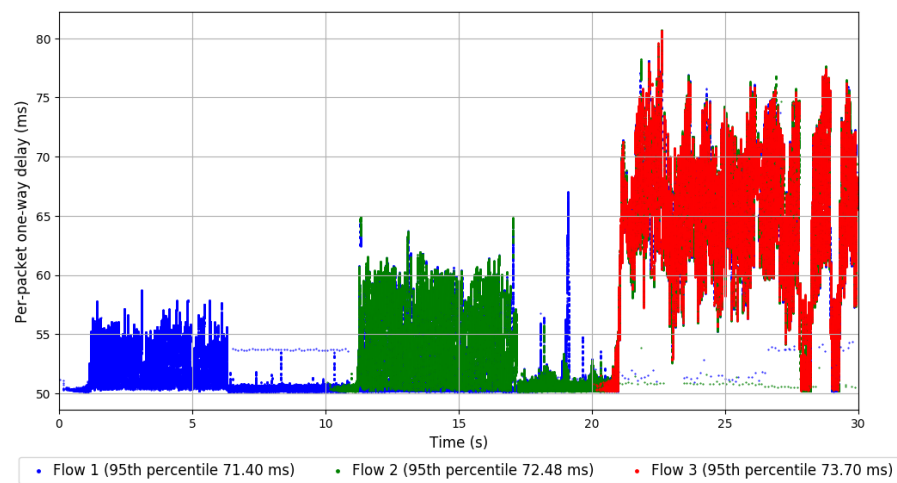
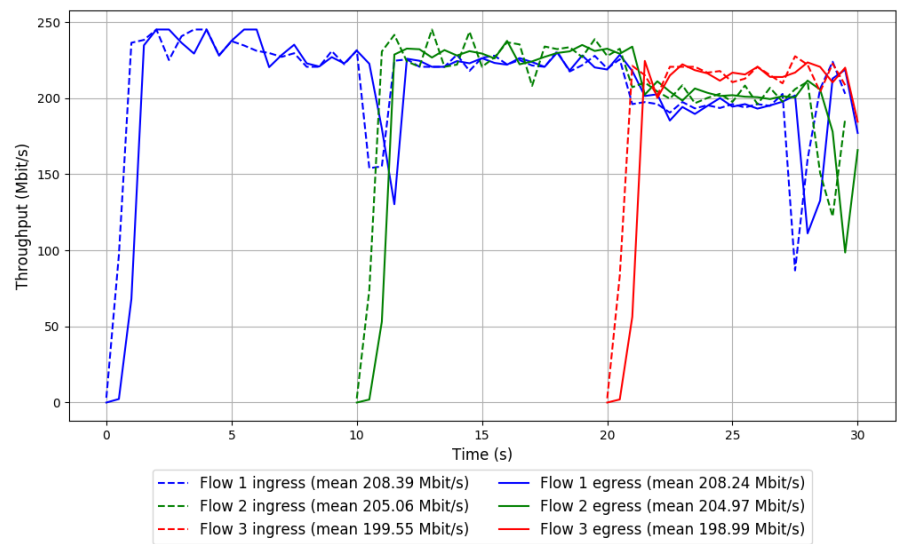


Run 2: Statistics of TCP BBR

Start at: 2018-06-07 17:00:56
End at: 2018-06-07 17:01:26
Local clock offset: -0.084 ms
Remote clock offset: -0.508 ms

Below is generated by plot.py at 2018-06-07 20:40:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 410.17 Mbit/s
95th percentile per-packet one-way delay: 72.419 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 208.24 Mbit/s
95th percentile per-packet one-way delay: 71.398 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 204.97 Mbit/s
95th percentile per-packet one-way delay: 72.478 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 198.99 Mbit/s
95th percentile per-packet one-way delay: 73.699 ms
Loss rate: 1.29%

Run 2: Report of TCP BBR — Data Link

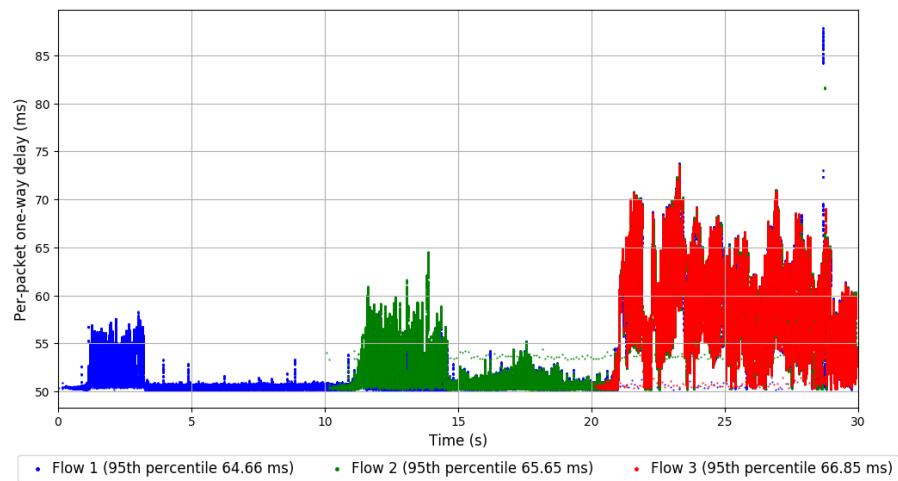
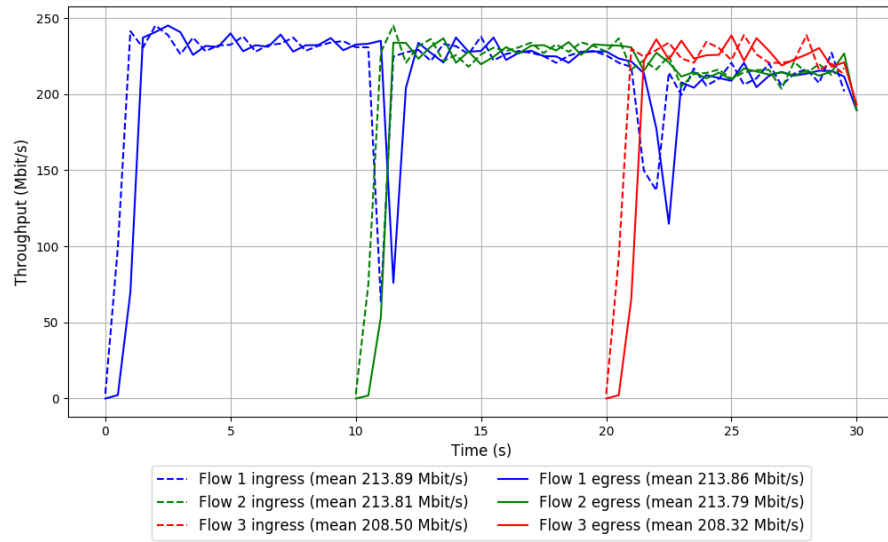


Run 3: Statistics of TCP BBR

Start at: 2018-06-07 17:23:48
End at: 2018-06-07 17:24:18
Local clock offset: 0.044 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-07 20:40:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.87 Mbit/s
95th percentile per-packet one-way delay: 65.626 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 213.86 Mbit/s
95th percentile per-packet one-way delay: 64.660 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 213.79 Mbit/s
95th percentile per-packet one-way delay: 65.652 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 208.32 Mbit/s
95th percentile per-packet one-way delay: 66.853 ms
Loss rate: 1.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-07 17:46:34

End at: 2018-06-07 17:47:04

Local clock offset: 0.372 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-07 20:40:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.84 Mbit/s

95th percentile per-packet one-way delay: 65.735 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 220.59 Mbit/s

95th percentile per-packet one-way delay: 64.939 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 204.46 Mbit/s

95th percentile per-packet one-way delay: 65.991 ms

Loss rate: 0.55%

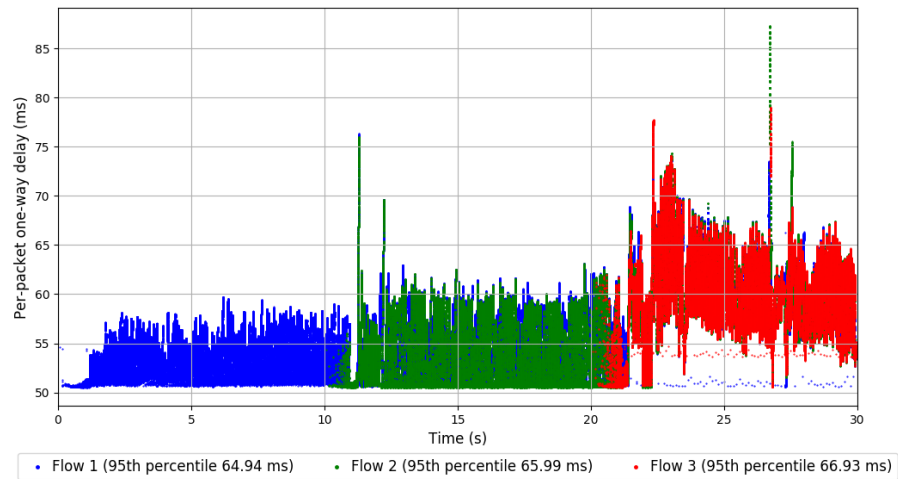
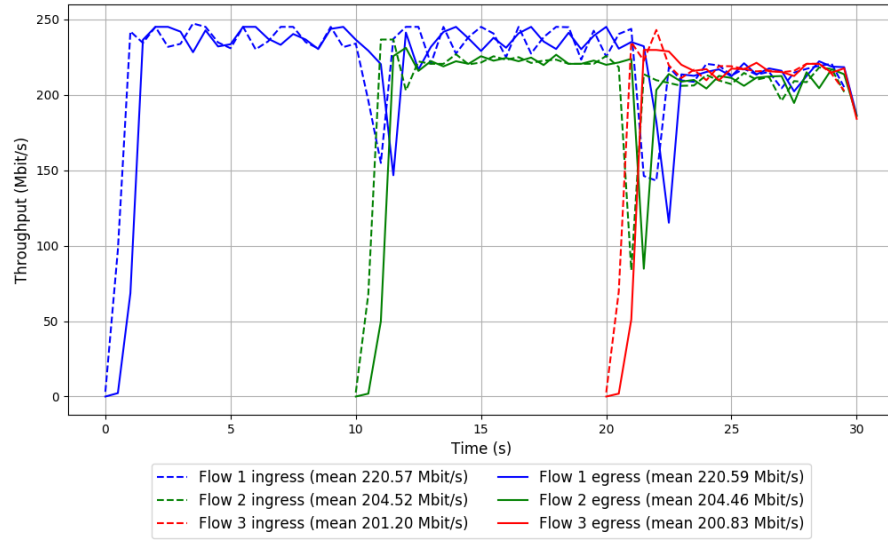
-- Flow 3:

Average throughput: 200.83 Mbit/s

95th percentile per-packet one-way delay: 66.926 ms

Loss rate: 1.13%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-07 18:09:39

End at: 2018-06-07 18:10:09

Local clock offset: 0.108 ms

Remote clock offset: 0.605 ms

Below is generated by plot.py at 2018-06-07 20:40:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 420.29 Mbit/s

95th percentile per-packet one-way delay: 71.078 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 214.72 Mbit/s

95th percentile per-packet one-way delay: 70.027 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 208.30 Mbit/s

95th percentile per-packet one-way delay: 71.367 ms

Loss rate: 0.58%

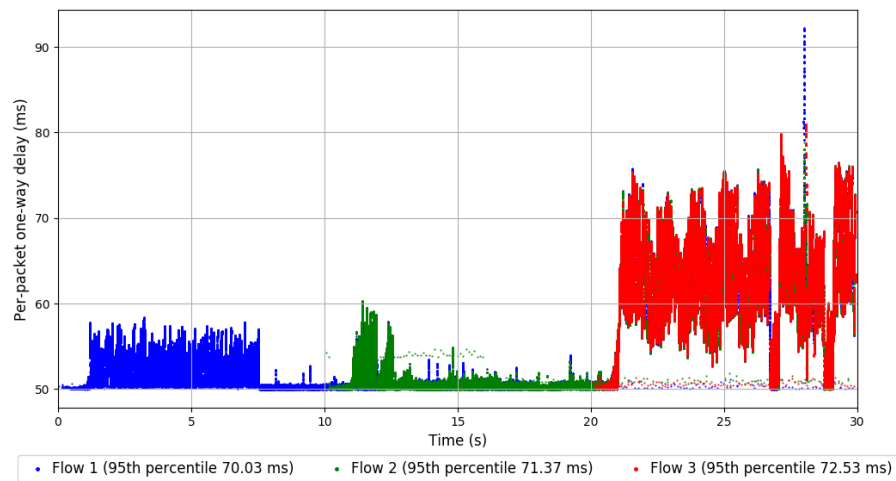
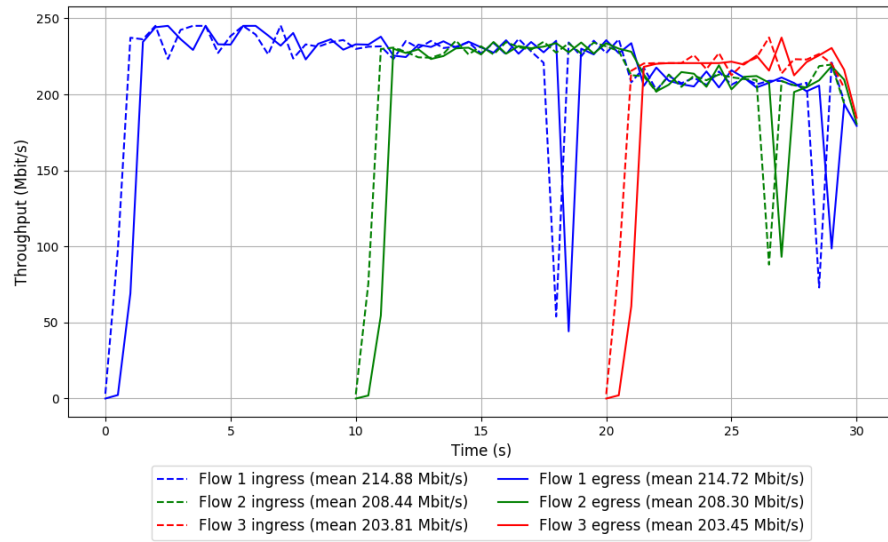
-- Flow 3:

Average throughput: 203.45 Mbit/s

95th percentile per-packet one-way delay: 72.530 ms

Loss rate: 1.19%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-07 18:32:26

End at: 2018-06-07 18:32:56

Local clock offset: -0.16 ms

Remote clock offset: 0.752 ms

Below is generated by plot.py at 2018-06-07 20:40:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 427.54 Mbit/s

95th percentile per-packet one-way delay: 64.154 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 219.63 Mbit/s

95th percentile per-packet one-way delay: 60.384 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 214.06 Mbit/s

95th percentile per-packet one-way delay: 64.618 ms

Loss rate: 0.55%

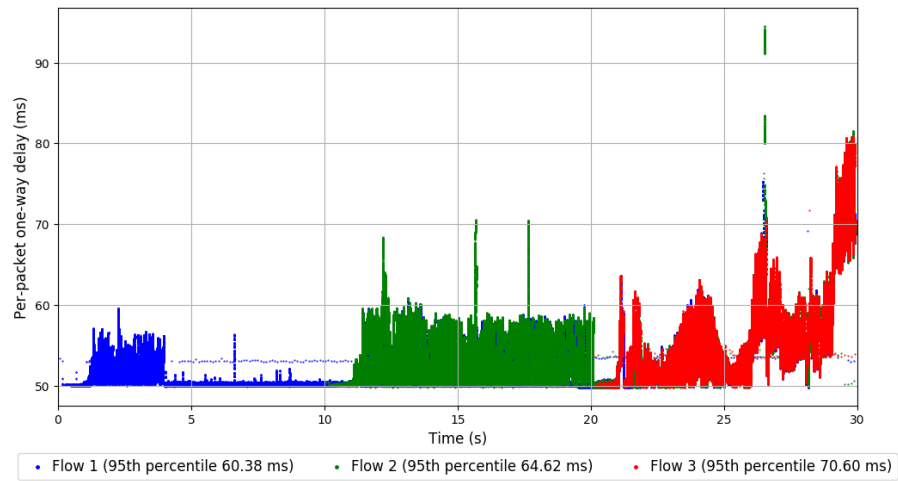
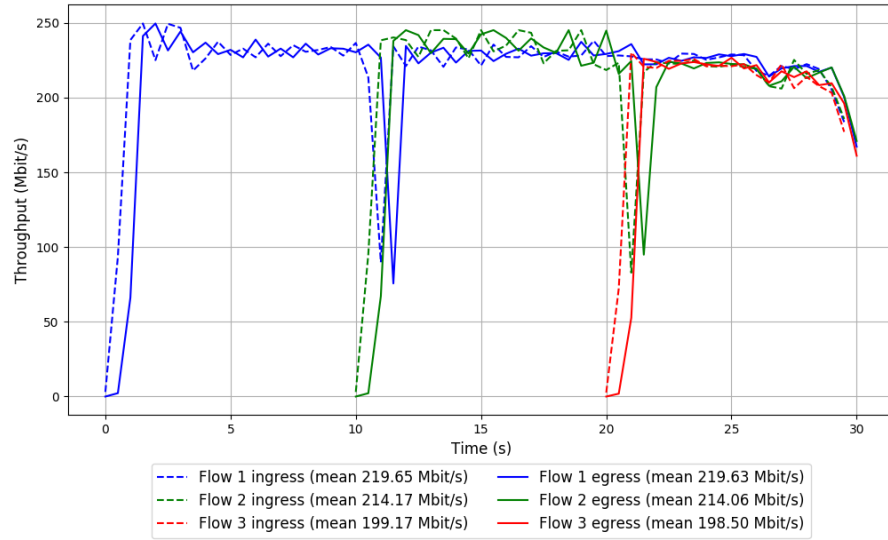
-- Flow 3:

Average throughput: 198.50 Mbit/s

95th percentile per-packet one-way delay: 70.601 ms

Loss rate: 1.16%

Run 6: Report of TCP BBR — Data Link

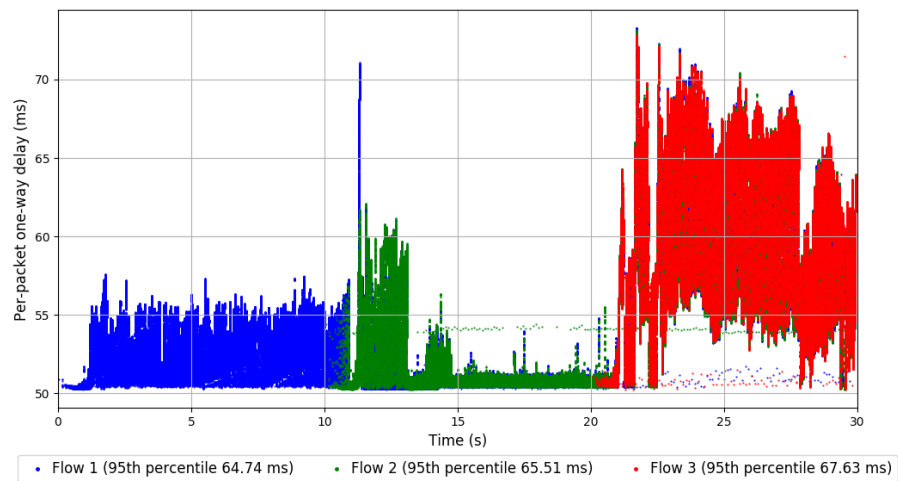
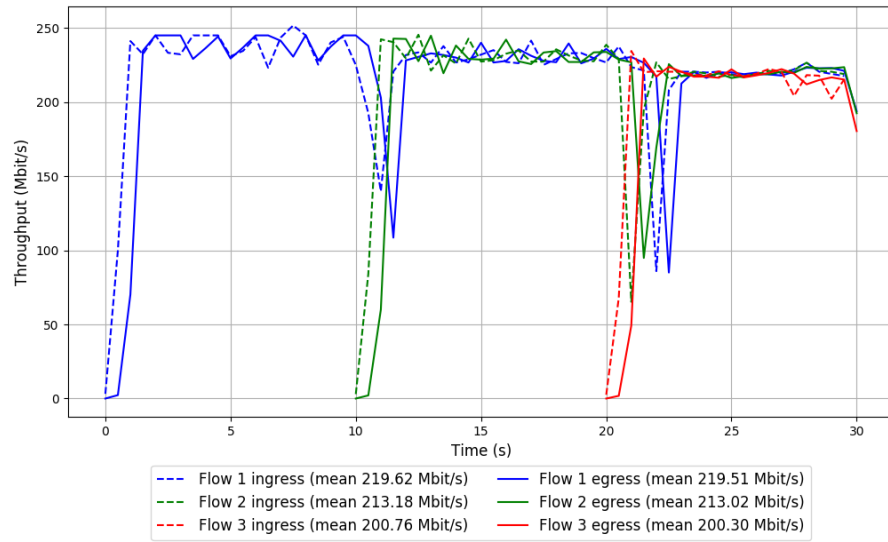


Run 7: Statistics of TCP BBR

Start at: 2018-06-07 18:55:31
End at: 2018-06-07 18:56:01
Local clock offset: 0.15 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-06-07 20:40:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 427.28 Mbit/s
95th percentile per-packet one-way delay: 66.043 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 219.51 Mbit/s
95th percentile per-packet one-way delay: 64.739 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 213.02 Mbit/s
95th percentile per-packet one-way delay: 65.509 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 200.30 Mbit/s
95th percentile per-packet one-way delay: 67.630 ms
Loss rate: 1.24%

Run 7: Report of TCP BBR — Data Link

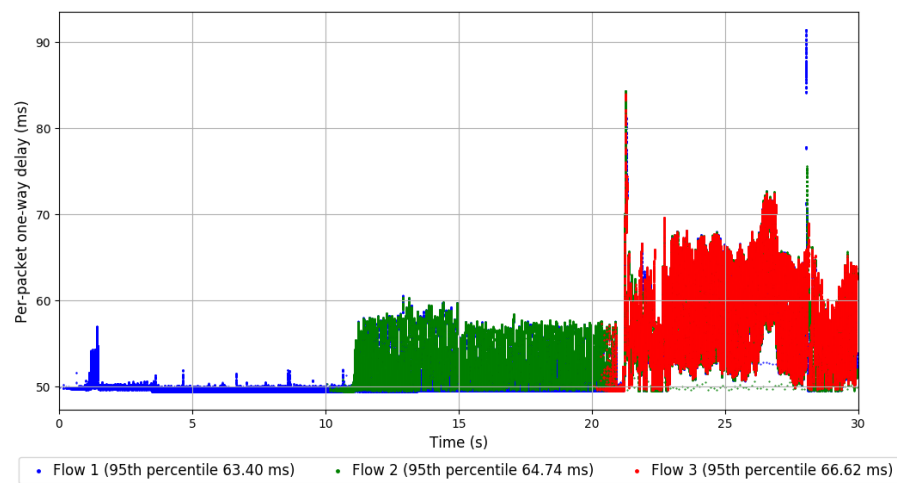
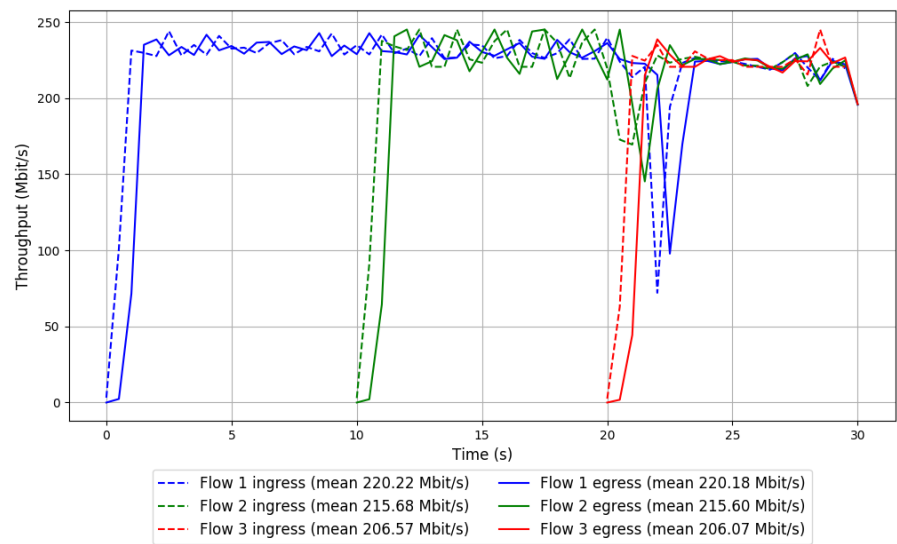


Run 8: Statistics of TCP BBR

Start at: 2018-06-07 19:18:42
End at: 2018-06-07 19:19:12
Local clock offset: -0.37 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-06-07 20:40:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 431.49 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 220.18 Mbit/s
95th percentile per-packet one-way delay: 63.398 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 215.60 Mbit/s
95th percentile per-packet one-way delay: 64.740 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 206.07 Mbit/s
95th percentile per-packet one-way delay: 66.619 ms
Loss rate: 1.19%

Run 8: Report of TCP BBR — Data Link

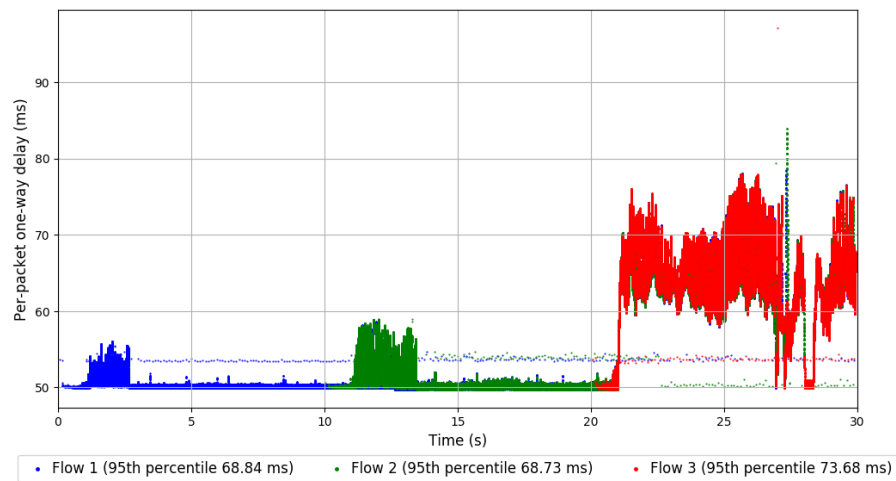
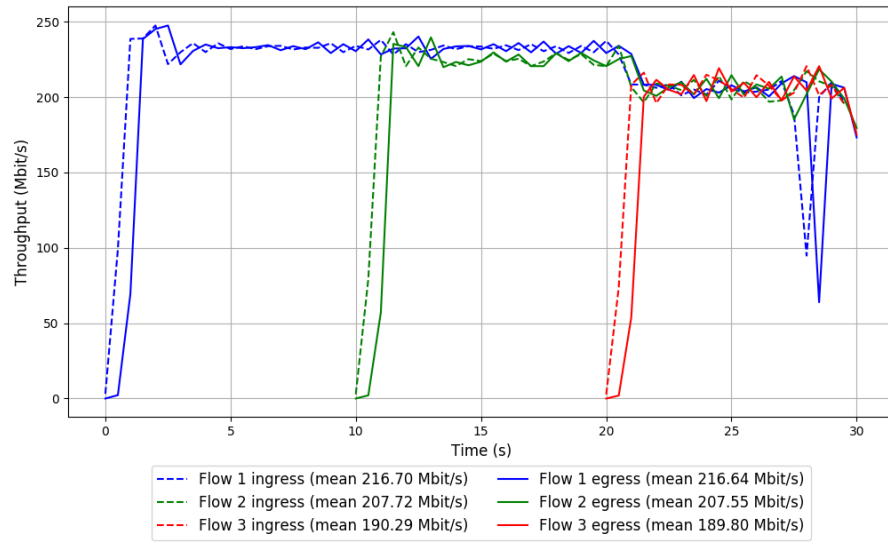


Run 9: Statistics of TCP BBR

Start at: 2018-06-07 19:41:03
End at: 2018-06-07 19:41:33
Local clock offset: -0.006 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-06-07 20:46:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 417.42 Mbit/s
95th percentile per-packet one-way delay: 70.904 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 216.64 Mbit/s
95th percentile per-packet one-way delay: 68.845 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 207.55 Mbit/s
95th percentile per-packet one-way delay: 68.732 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 189.80 Mbit/s
95th percentile per-packet one-way delay: 73.676 ms
Loss rate: 1.29%

Run 9: Report of TCP BBR — Data Link

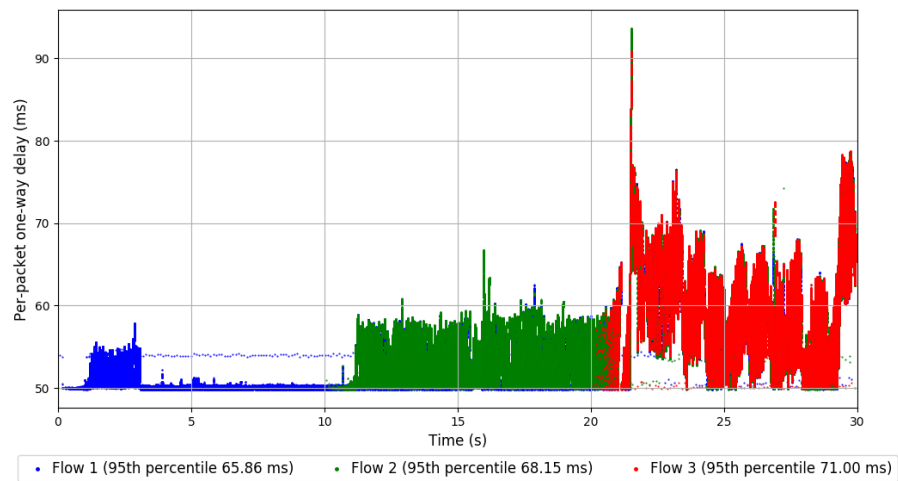
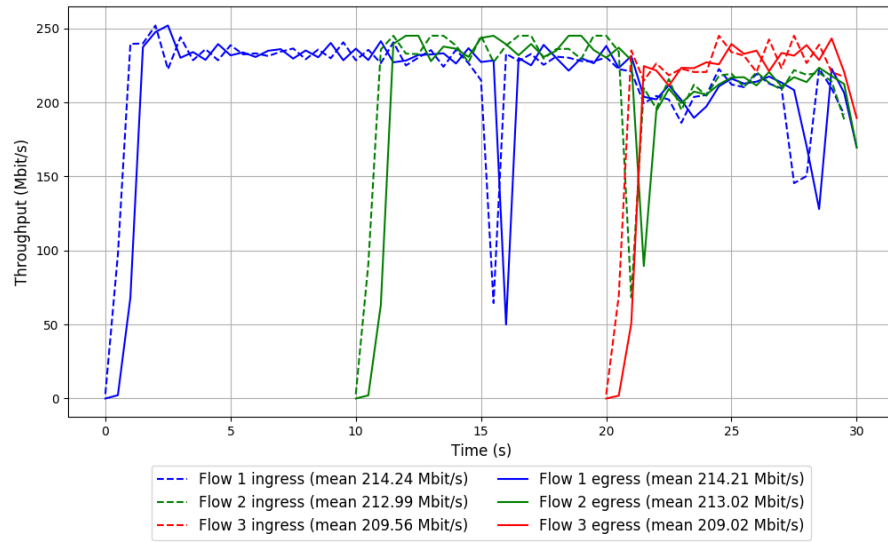


Run 10: Statistics of TCP BBR

Start at: 2018-06-07 20:03:33
End at: 2018-06-07 20:04:03
Local clock offset: -0.372 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-06-07 20:46:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.67 Mbit/s
95th percentile per-packet one-way delay: 67.867 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 214.21 Mbit/s
95th percentile per-packet one-way delay: 65.860 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 213.02 Mbit/s
95th percentile per-packet one-way delay: 68.146 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 209.02 Mbit/s
95th percentile per-packet one-way delay: 71.005 ms
Loss rate: 1.25%

Run 10: Report of TCP BBR — Data Link

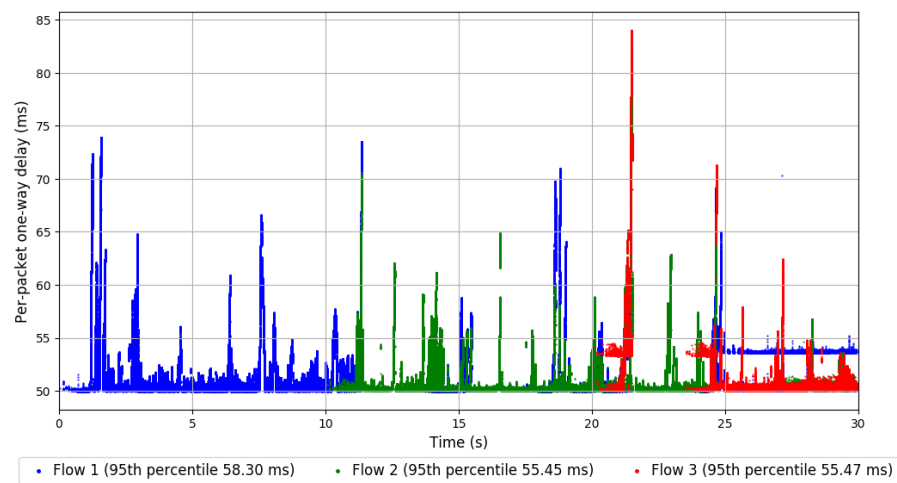
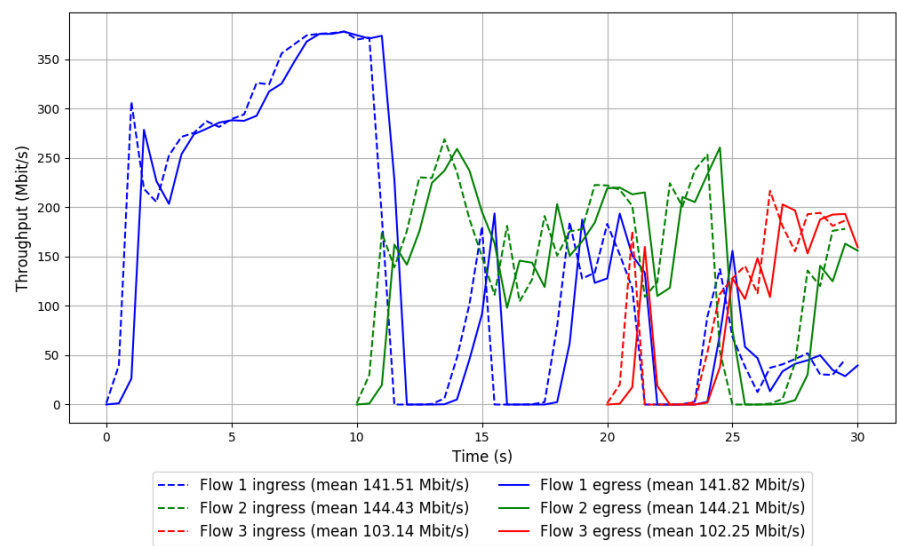


Run 1: Statistics of Copa

Start at: 2018-06-07 16:41:58
End at: 2018-06-07 16:42:28
Local clock offset: -0.227 ms
Remote clock offset: -1.135 ms

Below is generated by plot.py at 2018-06-07 20:48:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 271.44 Mbit/s
95th percentile per-packet one-way delay: 56.820 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 141.82 Mbit/s
95th percentile per-packet one-way delay: 58.299 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 144.21 Mbit/s
95th percentile per-packet one-way delay: 55.446 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 102.25 Mbit/s
95th percentile per-packet one-way delay: 55.473 ms
Loss rate: 1.91%

Run 1: Report of Copa — Data Link

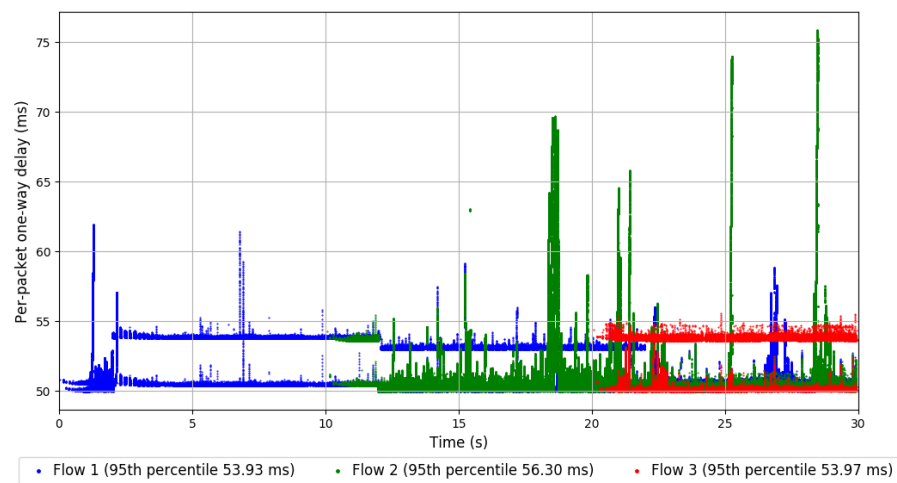
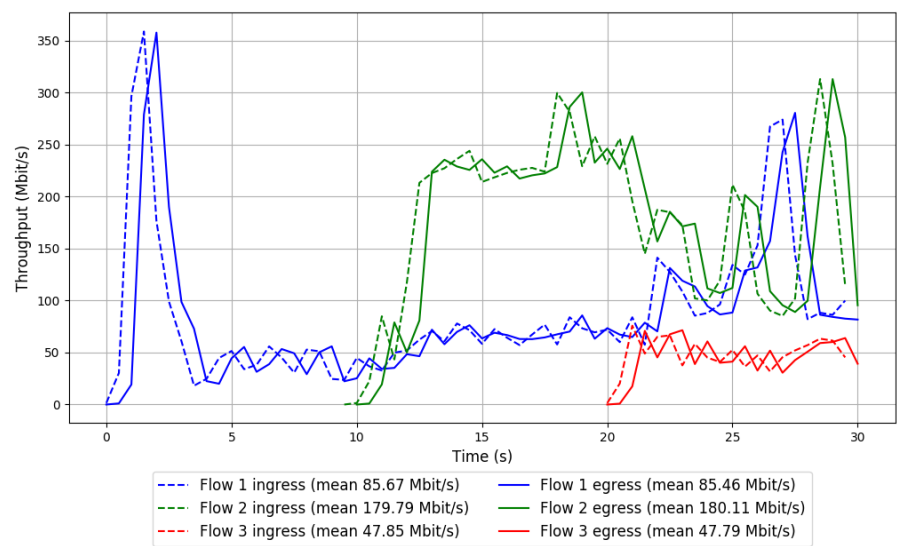


Run 2: Statistics of Copa

Start at: 2018-06-07 17:04:21
End at: 2018-06-07 17:04:51
Local clock offset: -0.246 ms
Remote clock offset: -0.378 ms

Below is generated by plot.py at 2018-06-07 20:48:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 221.02 Mbit/s
95th percentile per-packet one-way delay: 54.203 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 53.931 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 180.11 Mbit/s
95th percentile per-packet one-way delay: 56.300 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 53.967 ms
Loss rate: 1.18%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-07 17:27:13

End at: 2018-06-07 17:27:43

Local clock offset: 0.013 ms

Remote clock offset: 0.255 ms

Below is generated by plot.py at 2018-06-07 20:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.12 Mbit/s

95th percentile per-packet one-way delay: 57.058 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 191.66 Mbit/s

95th percentile per-packet one-way delay: 55.391 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 63.156 ms

Loss rate: 0.86%

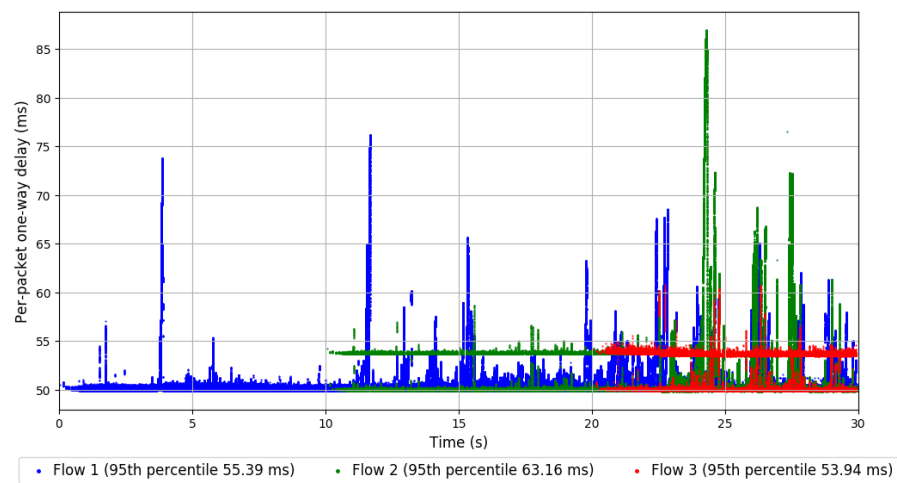
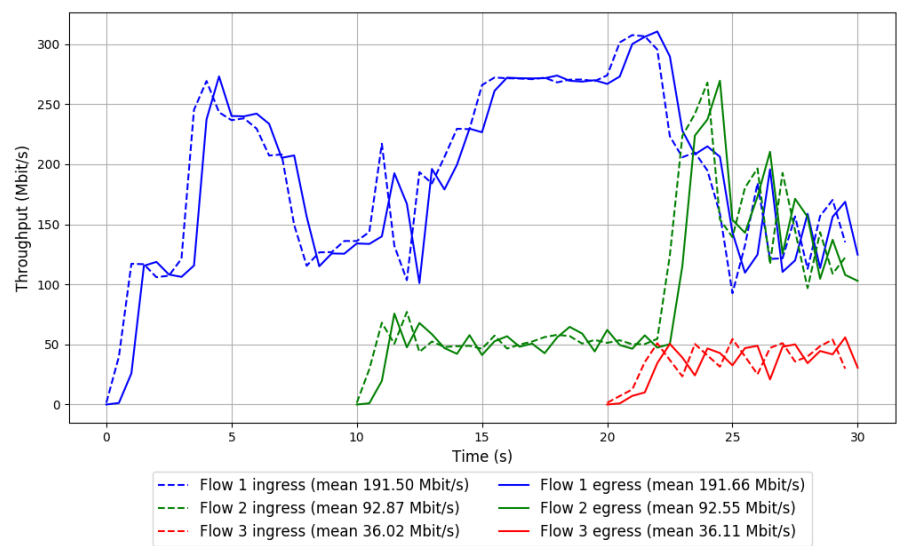
-- Flow 3:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.85%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-07 17:50:02

End at: 2018-06-07 17:50:32

Local clock offset: 0.122 ms

Remote clock offset: 0.43 ms

Below is generated by plot.py at 2018-06-07 20:49:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.38 Mbit/s

95th percentile per-packet one-way delay: 54.931 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 147.58 Mbit/s

95th percentile per-packet one-way delay: 54.498 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 227.04 Mbit/s

95th percentile per-packet one-way delay: 56.807 ms

Loss rate: 0.59%

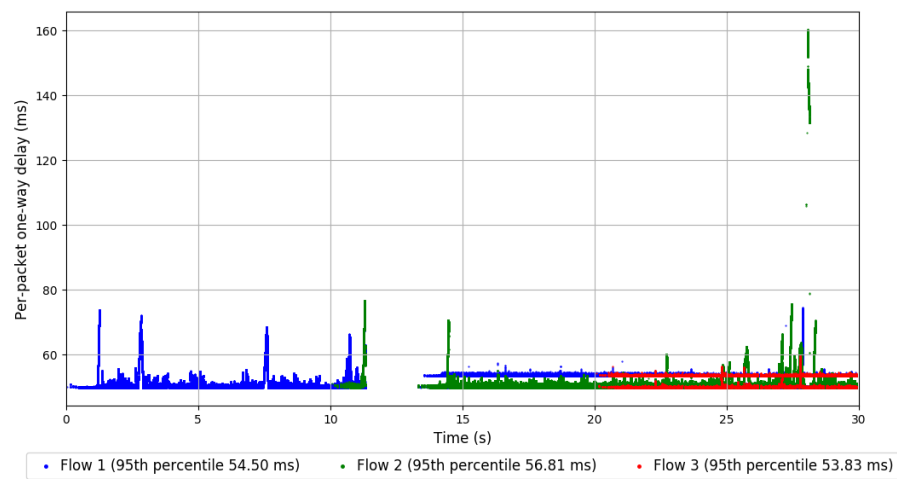
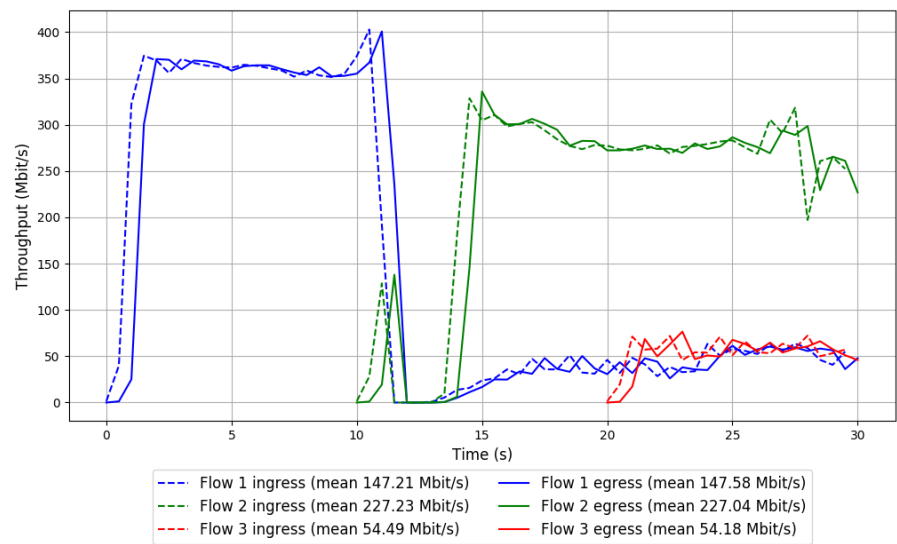
-- Flow 3:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 53.826 ms

Loss rate: 1.43%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-07 18:13:08

End at: 2018-06-07 18:13:38

Local clock offset: -0.113 ms

Remote clock offset: 0.309 ms

Below is generated by plot.py at 2018-06-07 20:49:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.85 Mbit/s

95th percentile per-packet one-way delay: 54.621 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 54.005 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 99.07 Mbit/s

95th percentile per-packet one-way delay: 56.545 ms

Loss rate: 0.89%

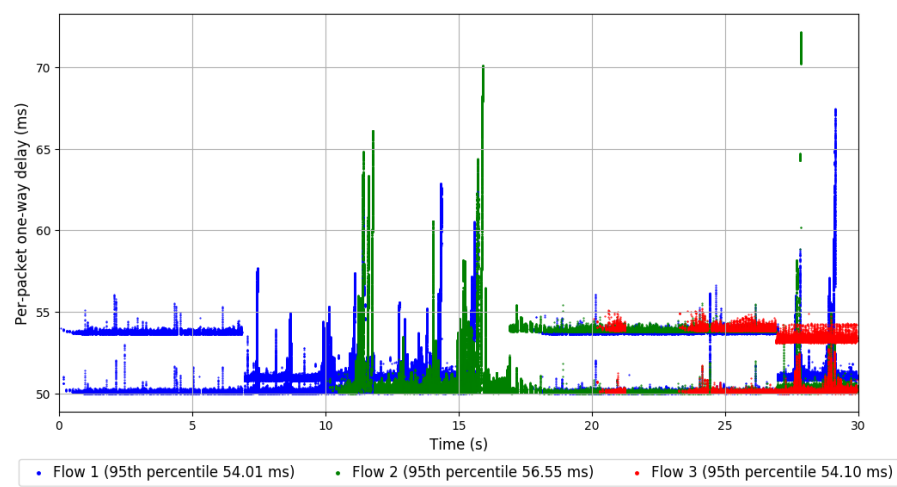
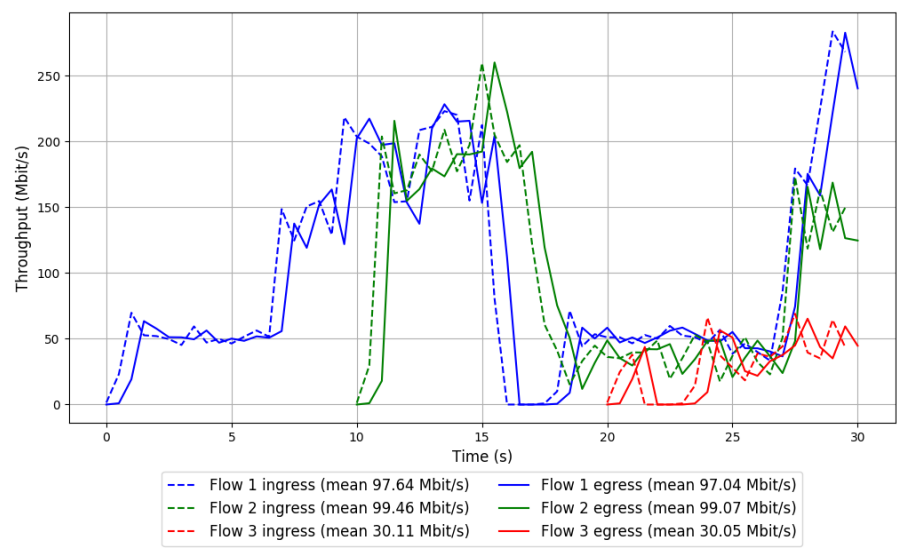
-- Flow 3:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 54.105 ms

Loss rate: 1.24%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-07 18:35:51

End at: 2018-06-07 18:36:21

Local clock offset: -0.07 ms

Remote clock offset: 0.371 ms

Below is generated by plot.py at 2018-06-07 20:49:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.62 Mbit/s

95th percentile per-packet one-way delay: 55.804 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 166.15 Mbit/s

95th percentile per-packet one-way delay: 57.103 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 137.92 Mbit/s

95th percentile per-packet one-way delay: 53.462 ms

Loss rate: 0.18%

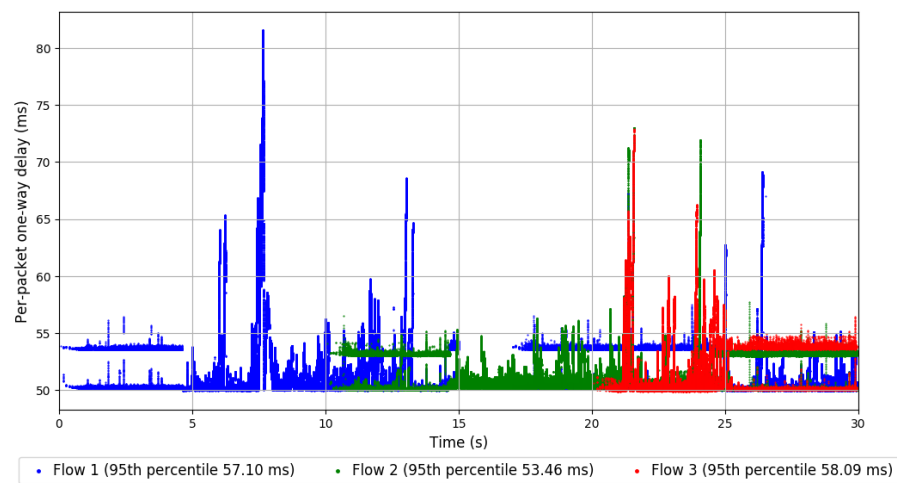
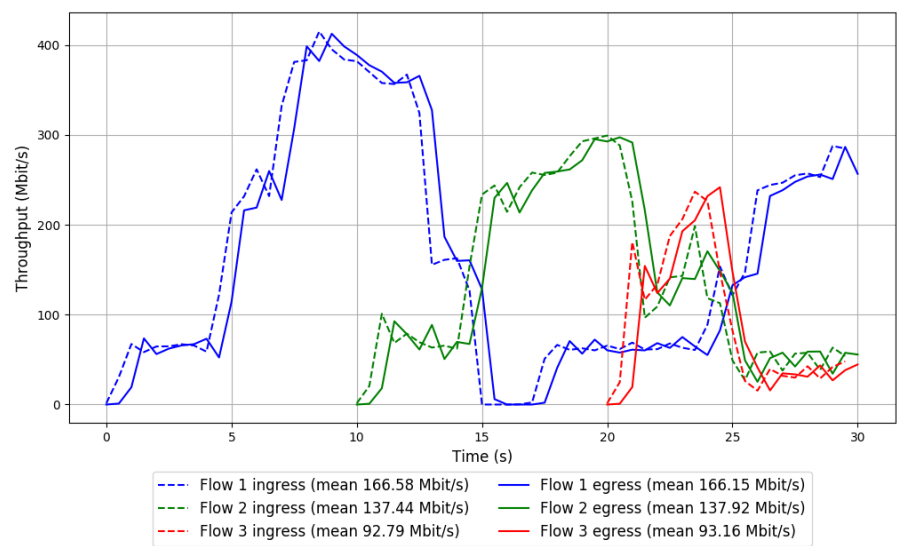
-- Flow 3:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 58.087 ms

Loss rate: 0.59%

Run 6: Report of Copa — Data Link

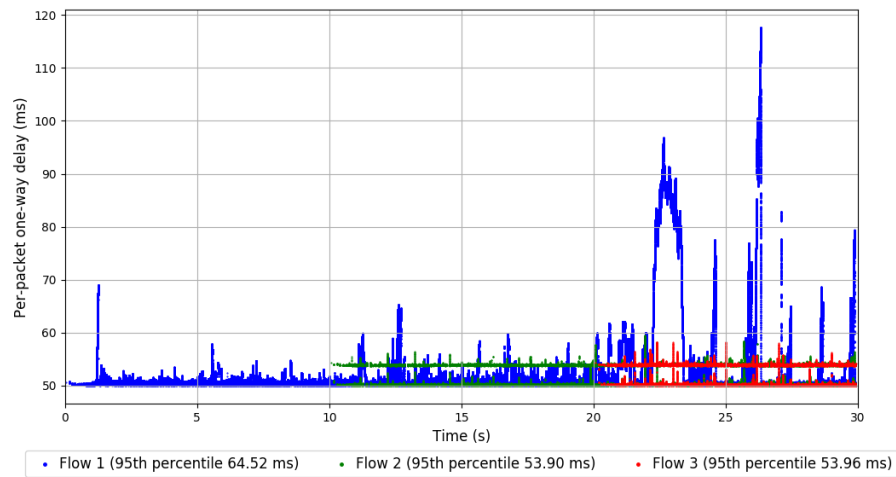
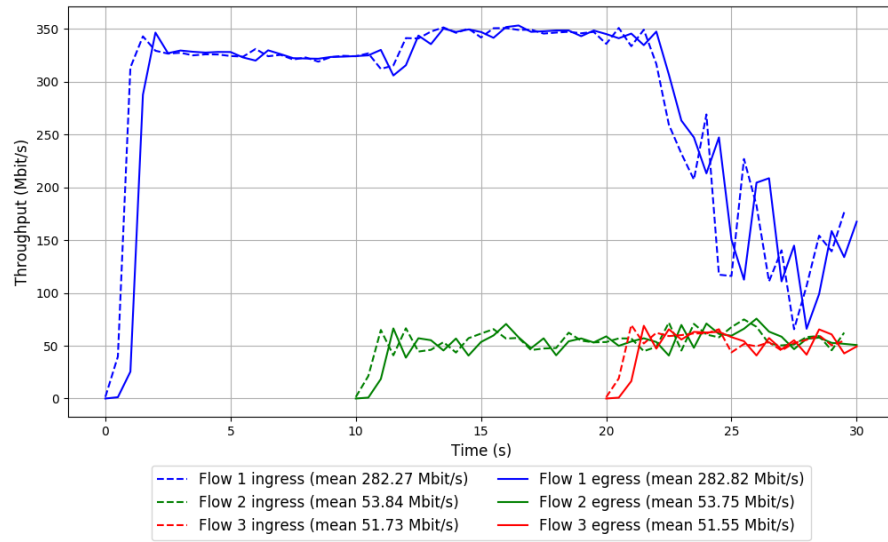


Run 7: Statistics of Copa

Start at: 2018-06-07 18:59:00
End at: 2018-06-07 18:59:30
Local clock offset: 0.084 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-06-07 20:56:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.56 Mbit/s
95th percentile per-packet one-way delay: 61.363 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 282.82 Mbit/s
95th percentile per-packet one-way delay: 64.524 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 53.958 ms
Loss rate: 1.31%

Run 7: Report of Copa — Data Link

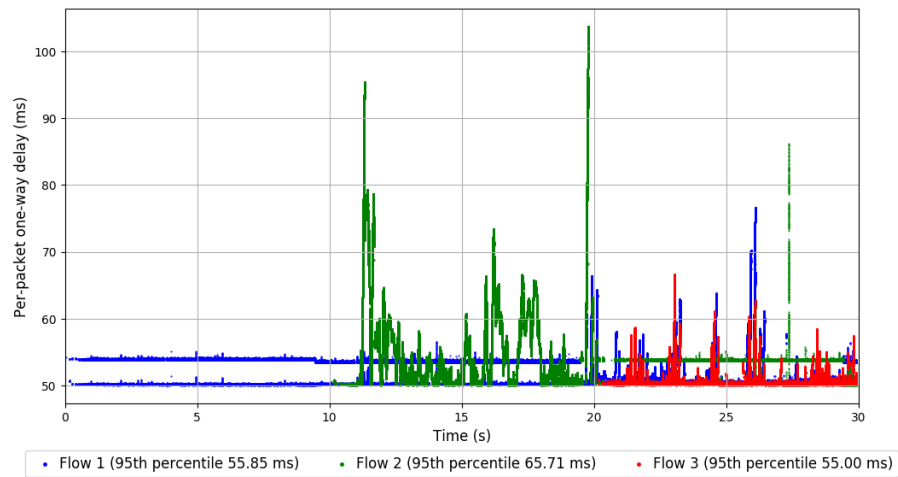
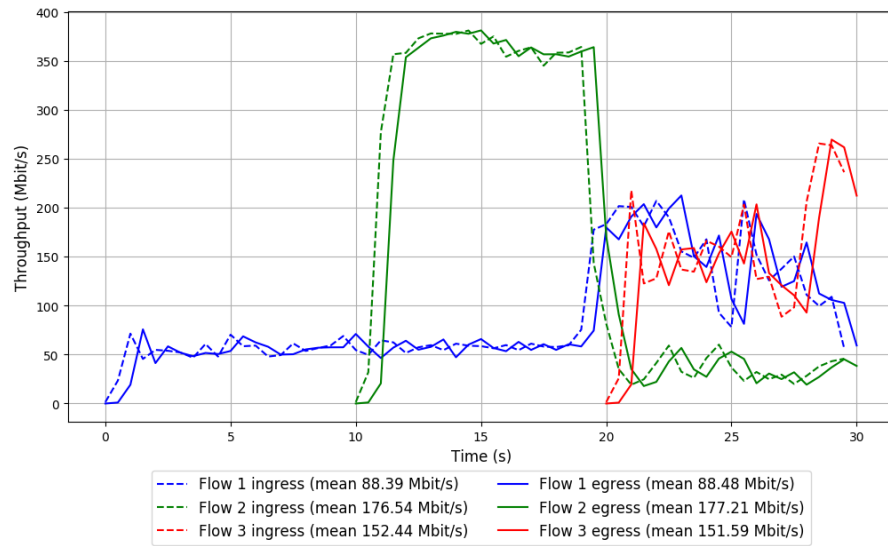


Run 8: Statistics of Copa

Start at: 2018-06-07 19:22:06
End at: 2018-06-07 19:22:36
Local clock offset: 0.175 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-06-07 20:56:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.36 Mbit/s
95th percentile per-packet one-way delay: 62.353 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 55.846 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 177.21 Mbit/s
95th percentile per-packet one-way delay: 65.708 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 151.59 Mbit/s
95th percentile per-packet one-way delay: 54.997 ms
Loss rate: 1.57%

Run 8: Report of Copa — Data Link

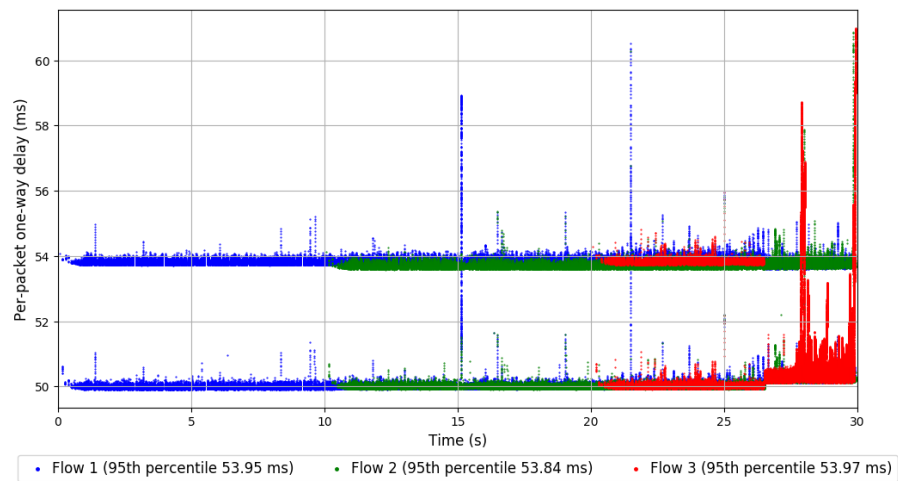
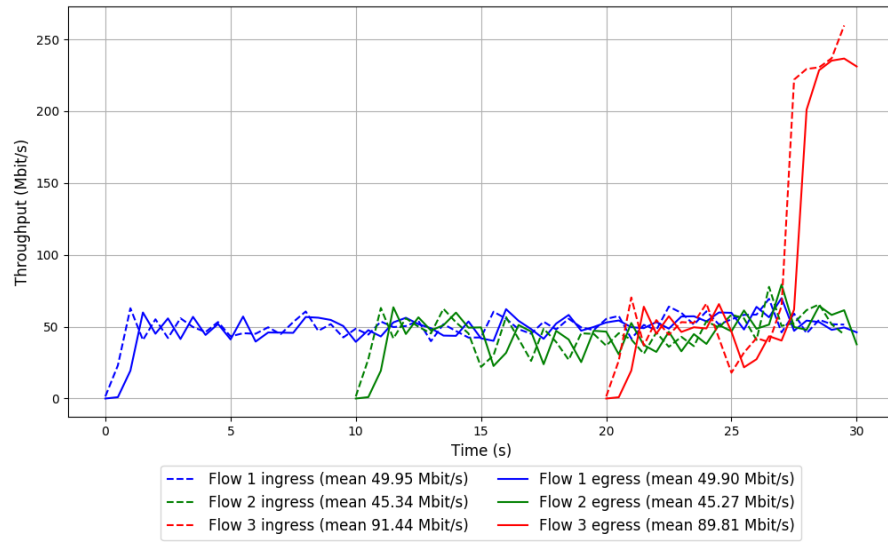


Run 9: Statistics of Copa

Start at: 2018-06-07 19:44:29
End at: 2018-06-07 19:44:59
Local clock offset: 0.163 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2018-06-07 20:56:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.58 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 53.945 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 53.970 ms
Loss rate: 2.81%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-07 20:07:04

End at: 2018-06-07 20:07:34

Local clock offset: -0.415 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-06-07 20:56:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.96 Mbit/s

95th percentile per-packet one-way delay: 60.340 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 168.48 Mbit/s

95th percentile per-packet one-way delay: 55.992 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 168.66 Mbit/s

95th percentile per-packet one-way delay: 65.327 ms

Loss rate: 0.28%

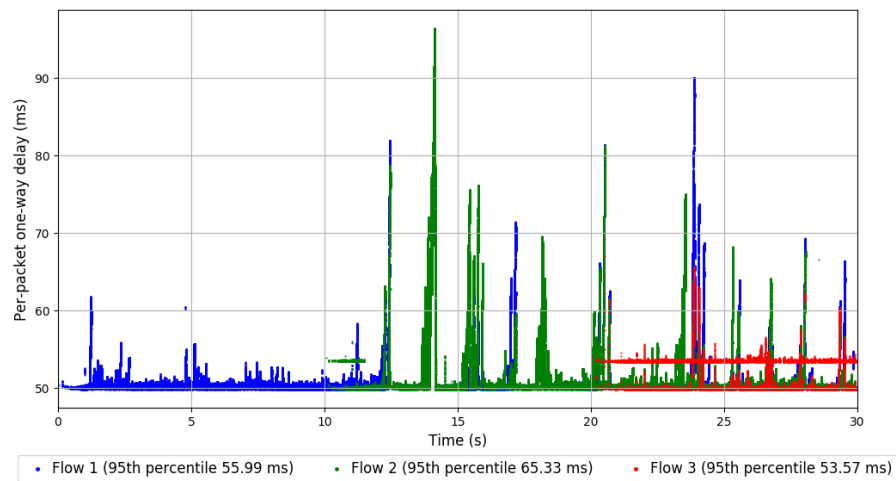
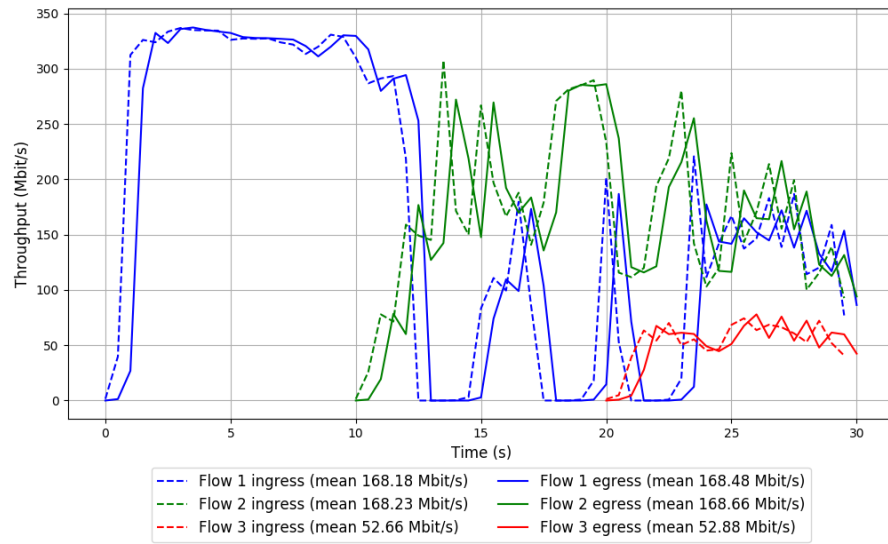
-- Flow 3:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 53.572 ms

Loss rate: 0.64%

Run 10: Report of Copa — Data Link

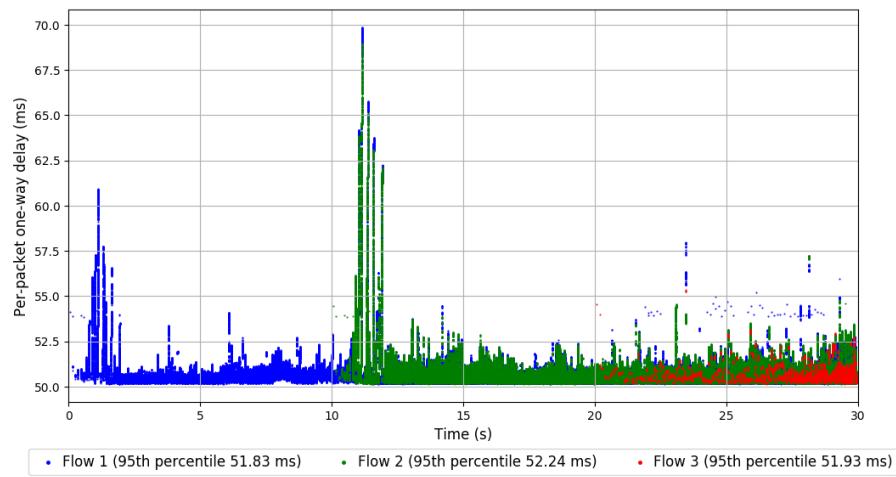
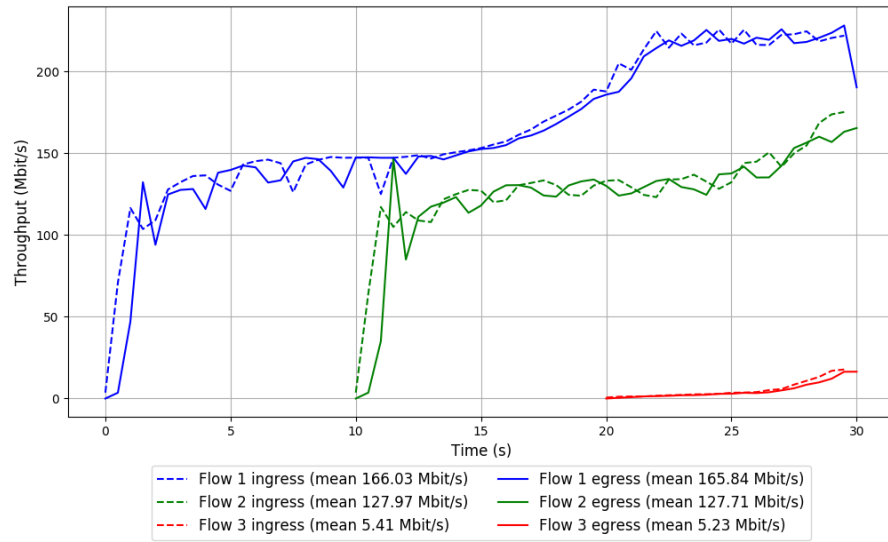


Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 16:32:54
End at: 2018-06-07 16:33:24
Local clock offset: 0.189 ms
Remote clock offset: -0.775 ms

Below is generated by plot.py at 2018-06-07 20:56:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.47 Mbit/s
95th percentile per-packet one-way delay: 51.982 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 165.84 Mbit/s
95th percentile per-packet one-way delay: 51.825 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 127.71 Mbit/s
95th percentile per-packet one-way delay: 52.243 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 51.927 ms
Loss rate: 4.19%

Run 1: Report of TCP Cubic — Data Link

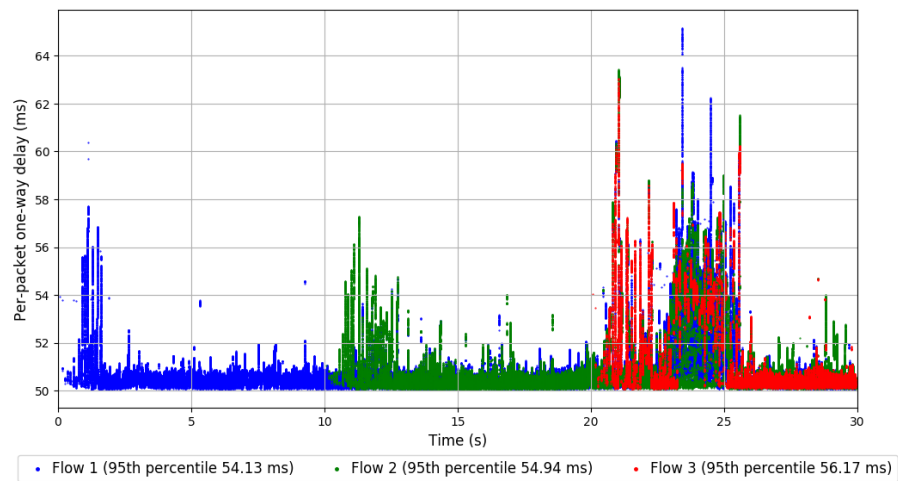
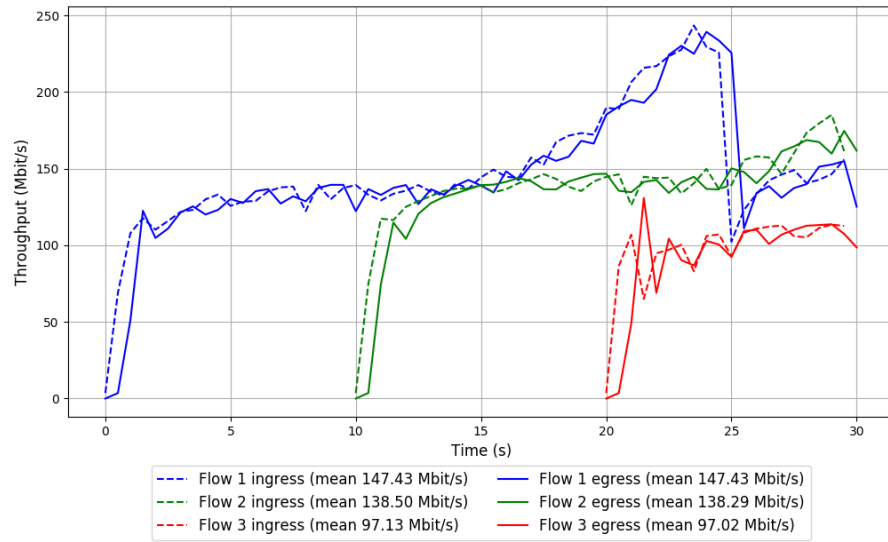


Run 2: Statistics of TCP Cubic

Start at: 2018-06-07 16:55:38
End at: 2018-06-07 16:56:08
Local clock offset: -0.01 ms
Remote clock offset: -0.605 ms

Below is generated by plot.py at 2018-06-07 20:56:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 271.31 Mbit/s
95th percentile per-packet one-way delay: 54.839 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 147.43 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 138.29 Mbit/s
95th percentile per-packet one-way delay: 54.937 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 56.171 ms
Loss rate: 1.19%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 17:18:02

End at: 2018-06-07 17:18:32

Local clock offset: -0.099 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-06-07 20:56:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.54 Mbit/s

95th percentile per-packet one-way delay: 56.680 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 163.41 Mbit/s

95th percentile per-packet one-way delay: 56.229 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 57.850 ms

Loss rate: 2.34%

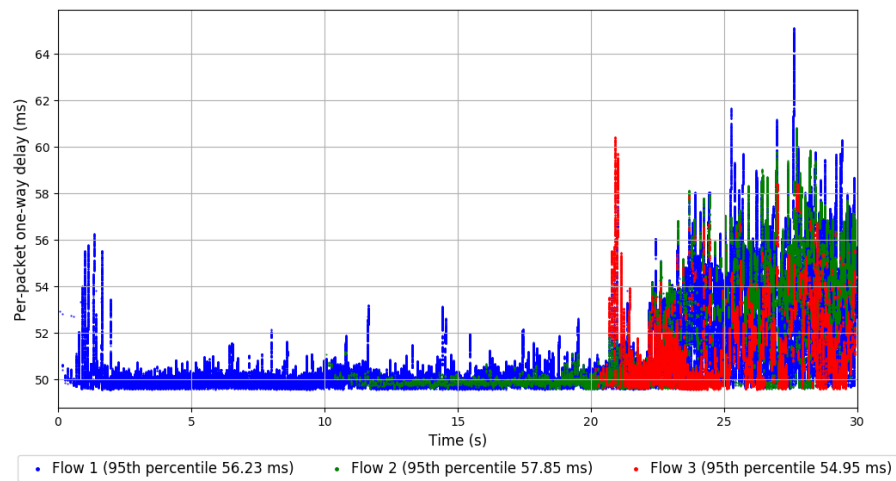
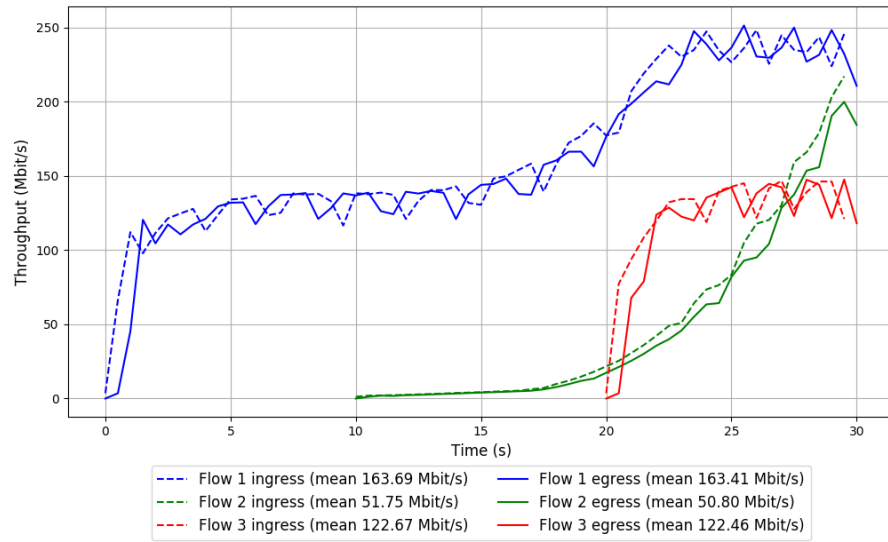
-- Flow 3:

Average throughput: 122.46 Mbit/s

95th percentile per-packet one-way delay: 54.951 ms

Loss rate: 1.21%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 17:41:07

End at: 2018-06-07 17:41:37

Local clock offset: 0.064 ms

Remote clock offset: 0.189 ms

Below is generated by plot.py at 2018-06-07 20:56:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.48 Mbit/s

95th percentile per-packet one-way delay: 59.403 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 218.77 Mbit/s

95th percentile per-packet one-way delay: 57.855 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 212.29 Mbit/s

95th percentile per-packet one-way delay: 60.687 ms

Loss rate: 0.23%

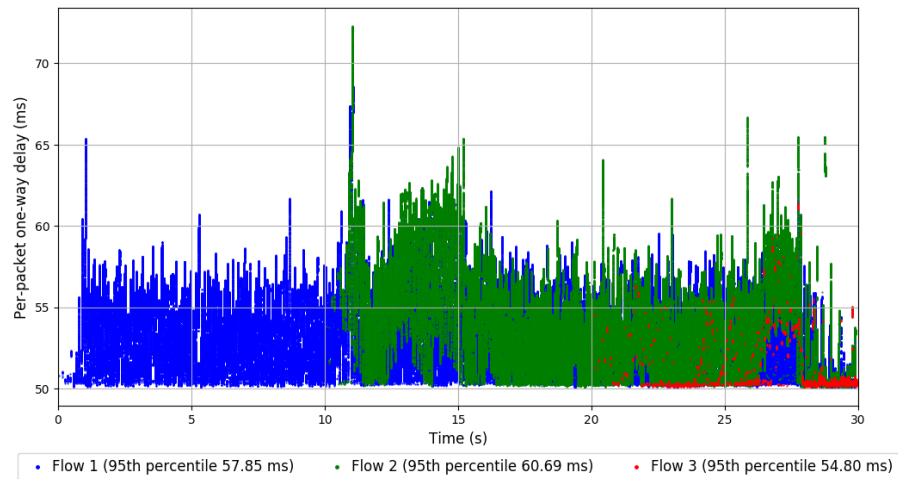
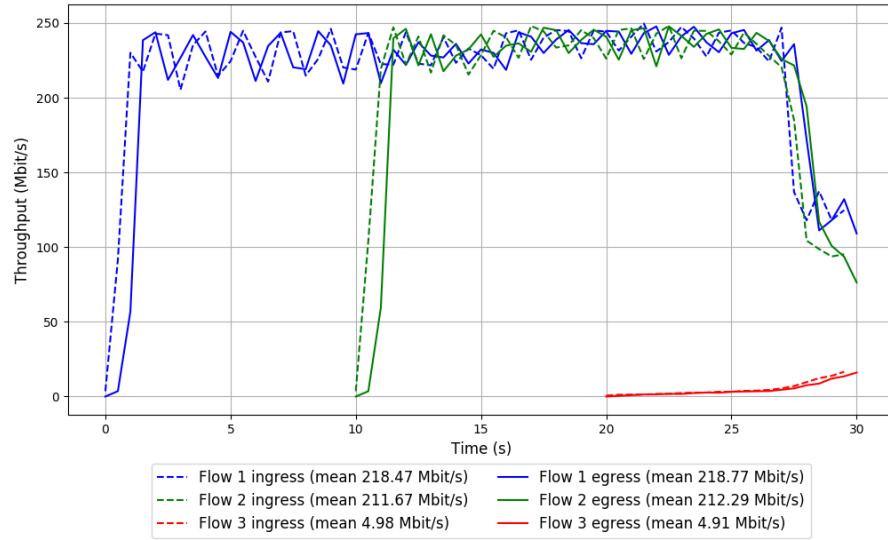
-- Flow 3:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 54.795 ms

Loss rate: 2.42%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 18:04:09

End at: 2018-06-07 18:04:39

Local clock offset: 0.059 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-06-07 20:56:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.91 Mbit/s

95th percentile per-packet one-way delay: 53.533 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 169.08 Mbit/s

95th percentile per-packet one-way delay: 53.265 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 53.02 Mbit/s

95th percentile per-packet one-way delay: 54.243 ms

Loss rate: 2.23%

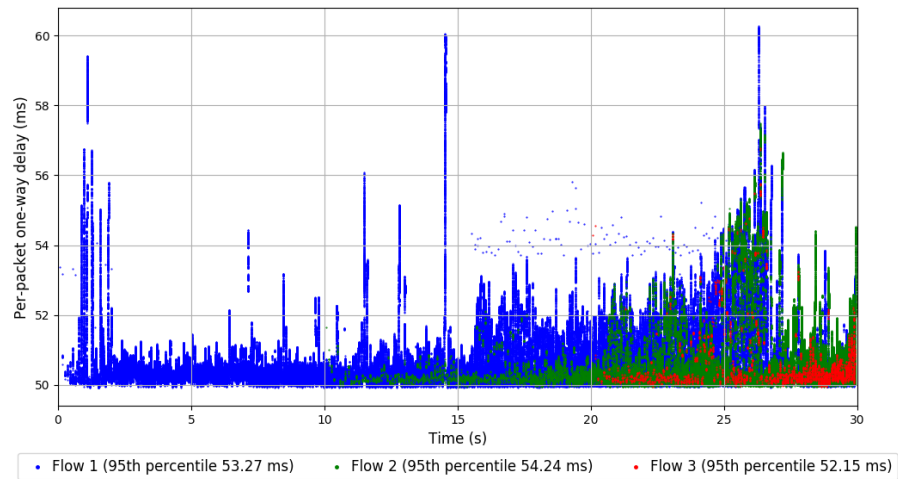
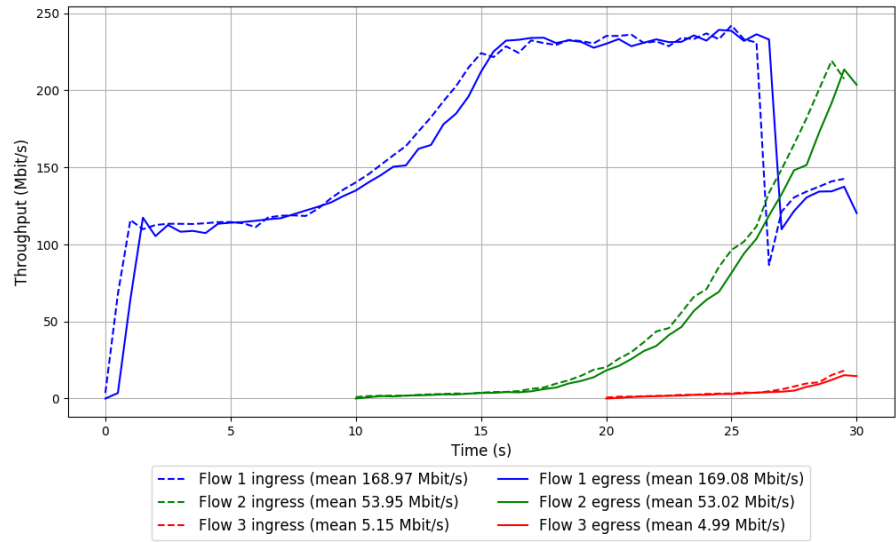
-- Flow 3:

Average throughput: 4.99 Mbit/s

95th percentile per-packet one-way delay: 52.153 ms

Loss rate: 4.12%

Run 5: Report of TCP Cubic — Data Link

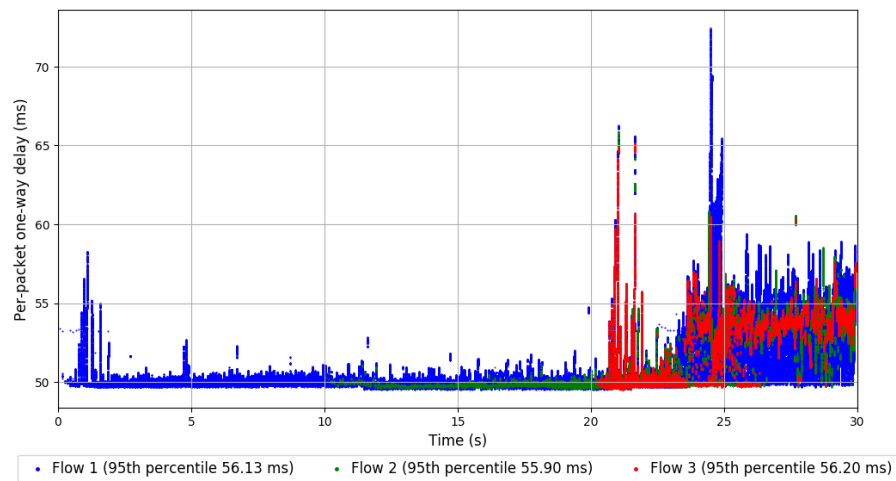
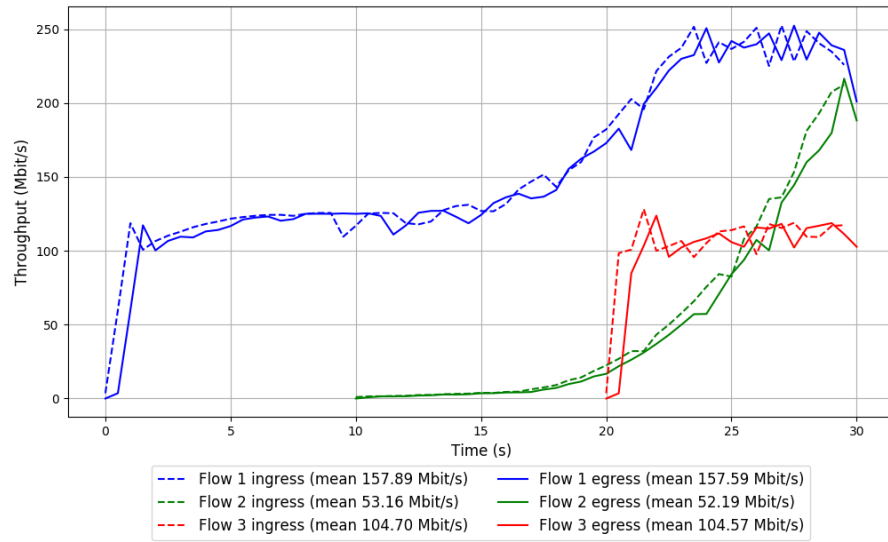


Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 18:26:44
End at: 2018-06-07 18:27:14
Local clock offset: -0.528 ms
Remote clock offset: 0.576 ms

Below is generated by plot.py at 2018-06-07 20:56:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 56.122 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 157.59 Mbit/s
95th percentile per-packet one-way delay: 56.128 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 55.901 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 104.57 Mbit/s
95th percentile per-packet one-way delay: 56.198 ms
Loss rate: 1.13%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-07 18:49:40

End at: 2018-06-07 18:50:10

Local clock offset: -0.359 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-06-07 20:58:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.84 Mbit/s

95th percentile per-packet one-way delay: 57.489 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 176.22 Mbit/s

95th percentile per-packet one-way delay: 56.320 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 120.45 Mbit/s

95th percentile per-packet one-way delay: 55.806 ms

Loss rate: 0.73%

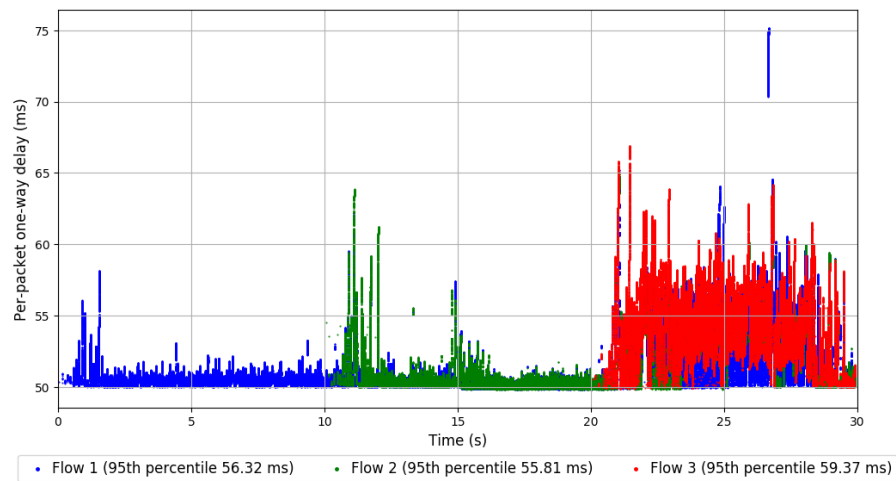
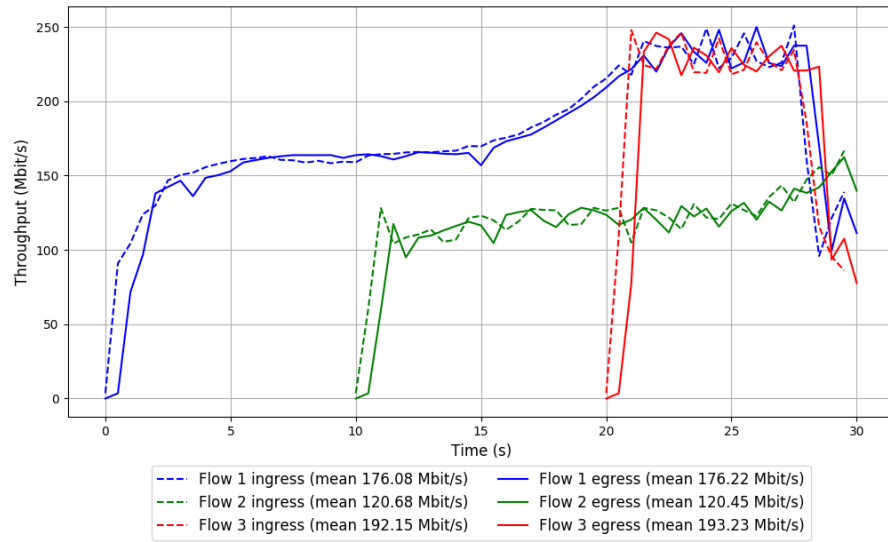
-- Flow 3:

Average throughput: 193.23 Mbit/s

95th percentile per-packet one-way delay: 59.367 ms

Loss rate: 0.49%

Run 7: Report of TCP Cubic — Data Link

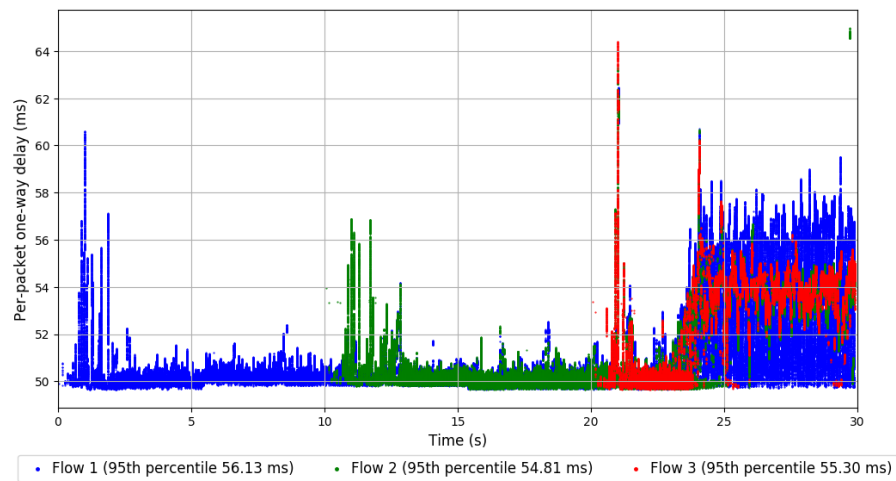
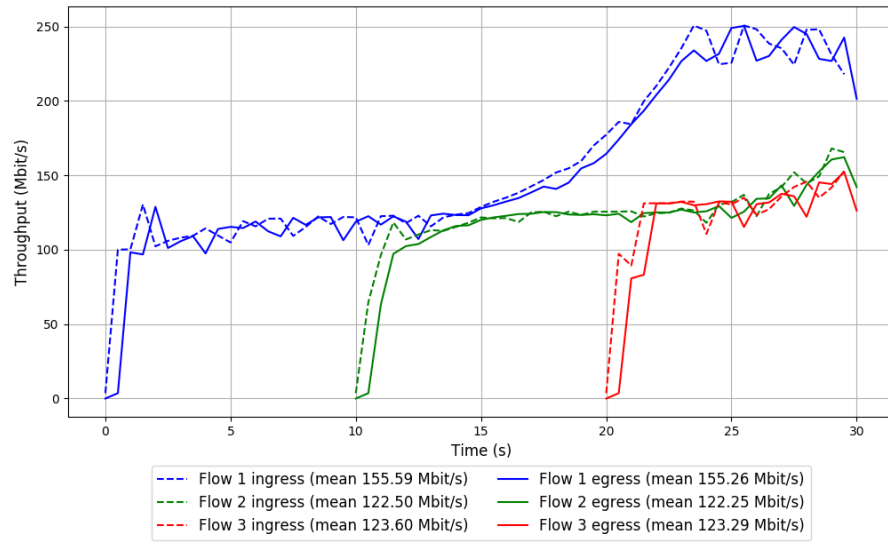


Run 8: Statistics of TCP Cubic

Start at: 2018-06-07 19:13:10
End at: 2018-06-07 19:13:40
Local clock offset: -0.308 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-06-07 20:58:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 276.98 Mbit/s
95th percentile per-packet one-way delay: 55.668 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 56.129 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 122.25 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 123.29 Mbit/s
95th percentile per-packet one-way delay: 55.300 ms
Loss rate: 1.29%

Run 8: Report of TCP Cubic — Data Link

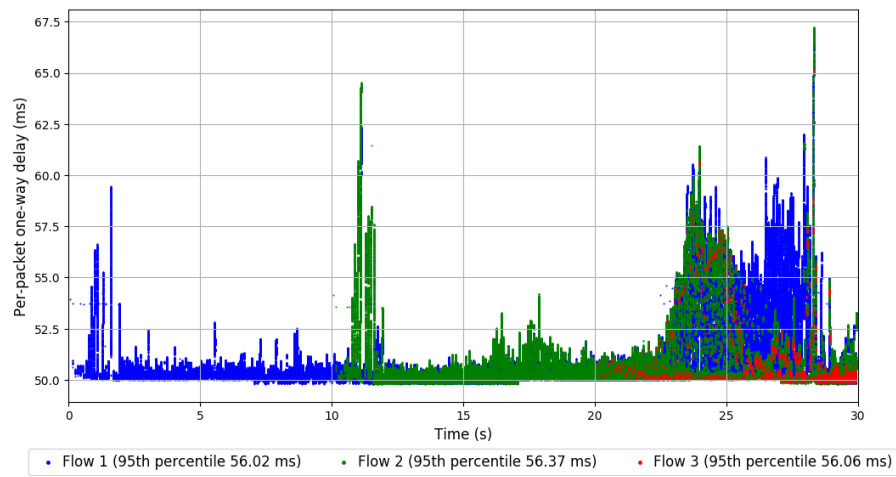
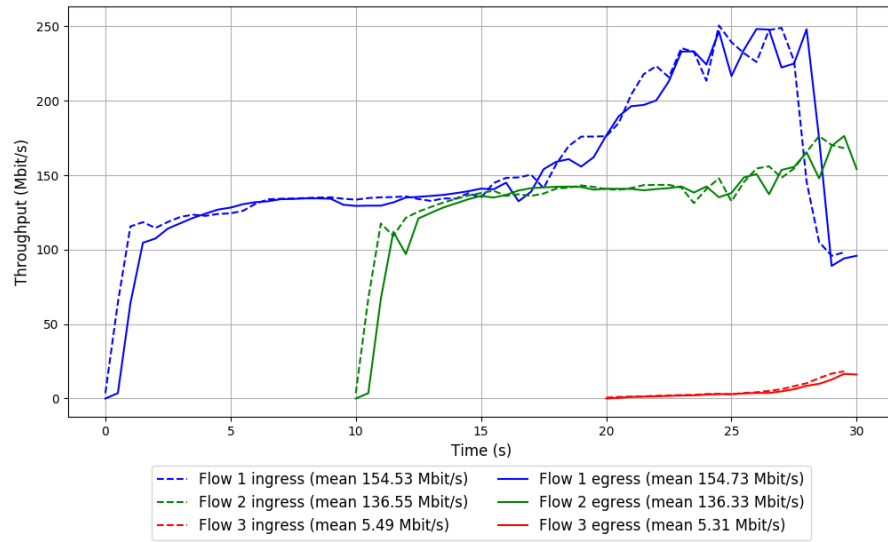


Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 19:35:48
End at: 2018-06-07 19:36:18
Local clock offset: -0.04 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2018-06-07 20:58:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.14 Mbit/s
95th percentile per-packet one-way delay: 56.174 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 154.73 Mbit/s
95th percentile per-packet one-way delay: 56.015 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 136.33 Mbit/s
95th percentile per-packet one-way delay: 56.373 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 56.064 ms
Loss rate: 4.18%

Run 9: Report of TCP Cubic — Data Link

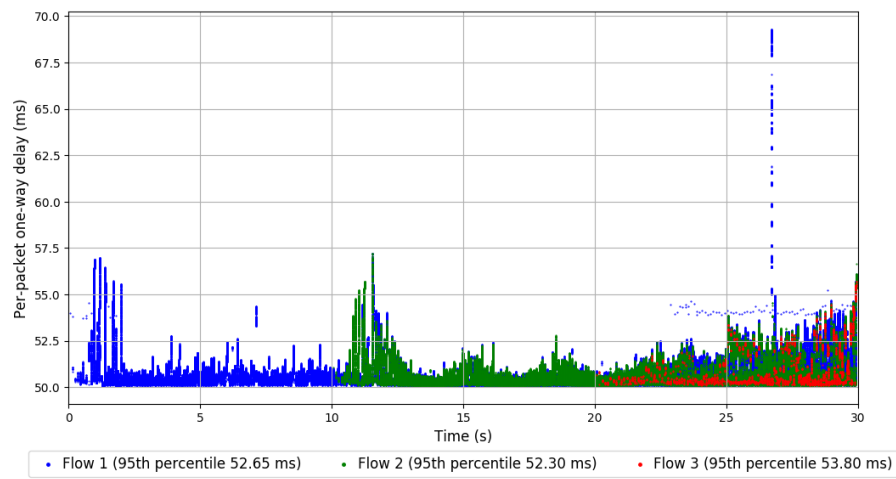
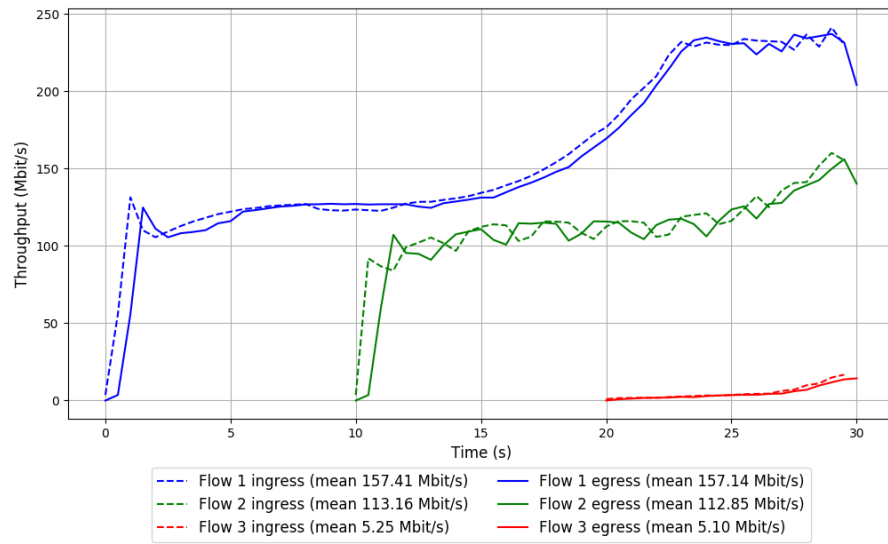


Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 19:58:14
End at: 2018-06-07 19:58:44
Local clock offset: -0.084 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2018-06-07 20:58:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 233.86 Mbit/s
95th percentile per-packet one-way delay: 52.557 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 157.14 Mbit/s
95th percentile per-packet one-way delay: 52.649 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 112.85 Mbit/s
95th percentile per-packet one-way delay: 52.297 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 3.88%

Run 10: Report of TCP Cubic — Data Link

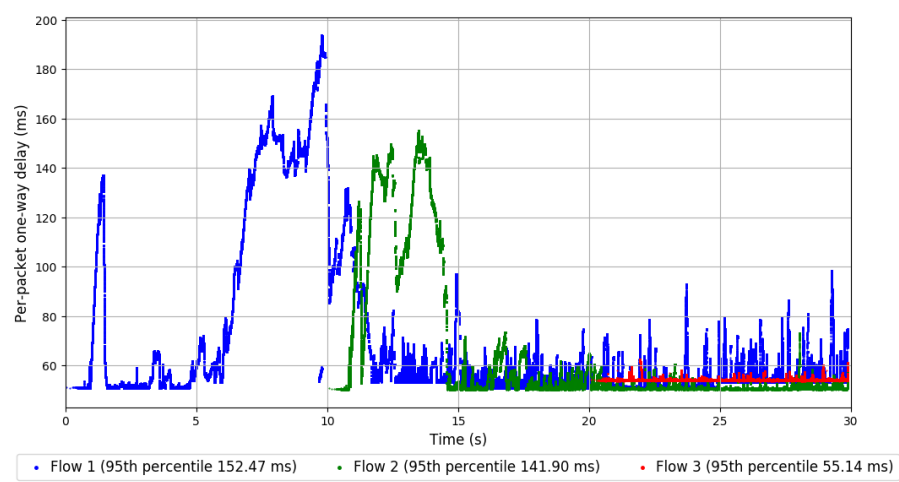
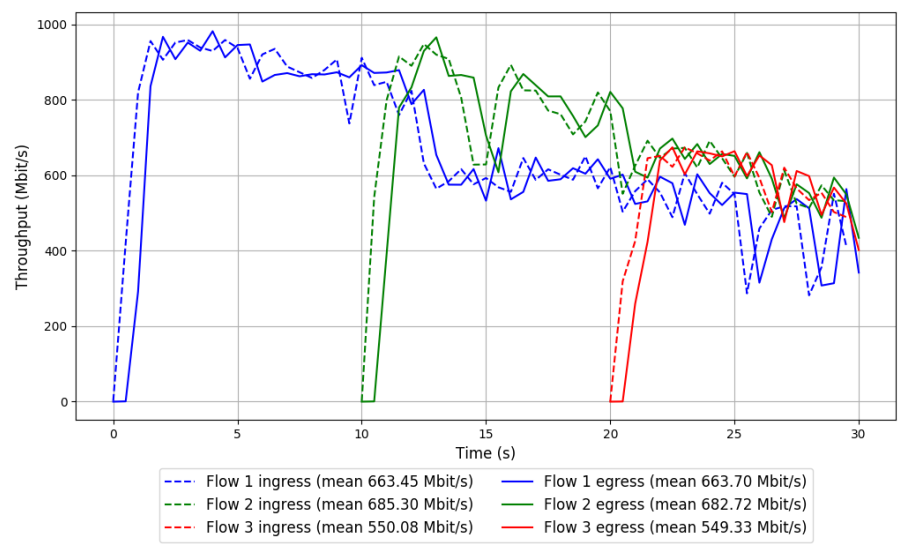


Run 1: Statistics of FillP

Start at: 2018-06-07 16:39:58
End at: 2018-06-07 16:40:28
Local clock offset: 0.071 ms
Remote clock offset: -0.992 ms

Below is generated by plot.py at 2018-06-07 21:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 1298.18 Mbit/s
95th percentile per-packet one-way delay: 147.046 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 663.70 Mbit/s
95th percentile per-packet one-way delay: 152.469 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 682.72 Mbit/s
95th percentile per-packet one-way delay: 141.899 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 549.33 Mbit/s
95th percentile per-packet one-way delay: 55.138 ms
Loss rate: 1.21%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-07 17:02:24

End at: 2018-06-07 17:02:54

Local clock offset: 0.028 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-06-07 21:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1205.25 Mbit/s

95th percentile per-packet one-way delay: 118.906 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 686.94 Mbit/s

95th percentile per-packet one-way delay: 120.425 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 523.38 Mbit/s

95th percentile per-packet one-way delay: 118.584 ms

Loss rate: 0.74%

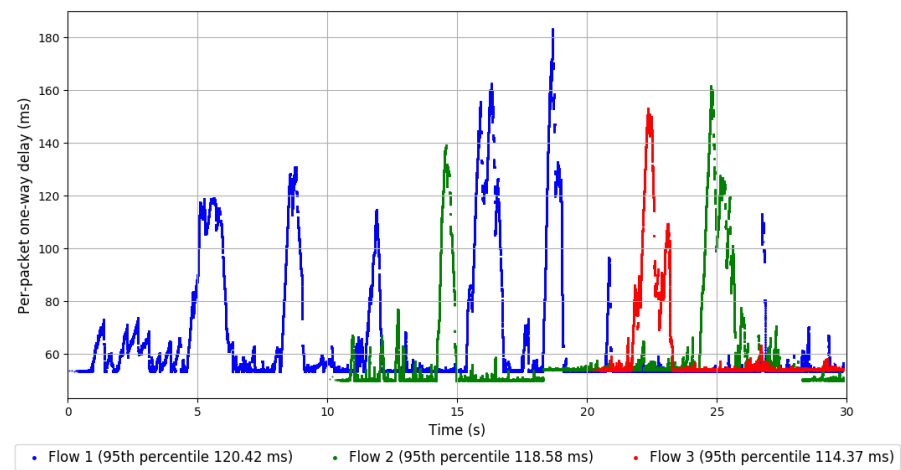
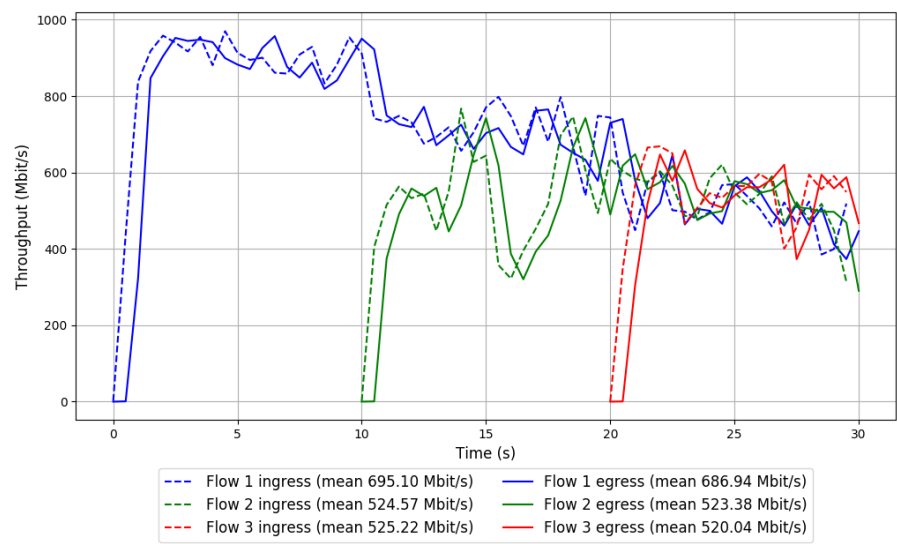
-- Flow 3:

Average throughput: 520.04 Mbit/s

95th percentile per-packet one-way delay: 114.373 ms

Loss rate: 2.05%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-07 17:25:16

End at: 2018-06-07 17:25:46

Local clock offset: -0.065 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-06-07 21:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1190.26 Mbit/s

95th percentile per-packet one-way delay: 176.004 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 698.15 Mbit/s

95th percentile per-packet one-way delay: 118.607 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 562.84 Mbit/s

95th percentile per-packet one-way delay: 180.048 ms

Loss rate: 0.88%

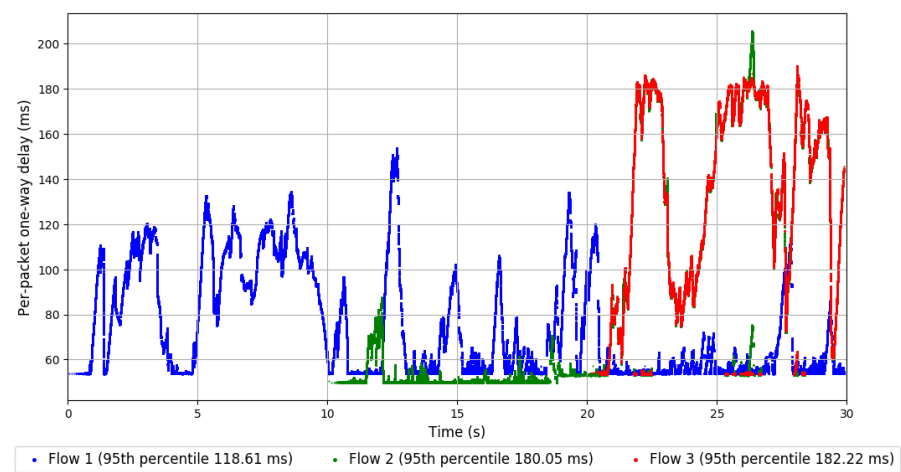
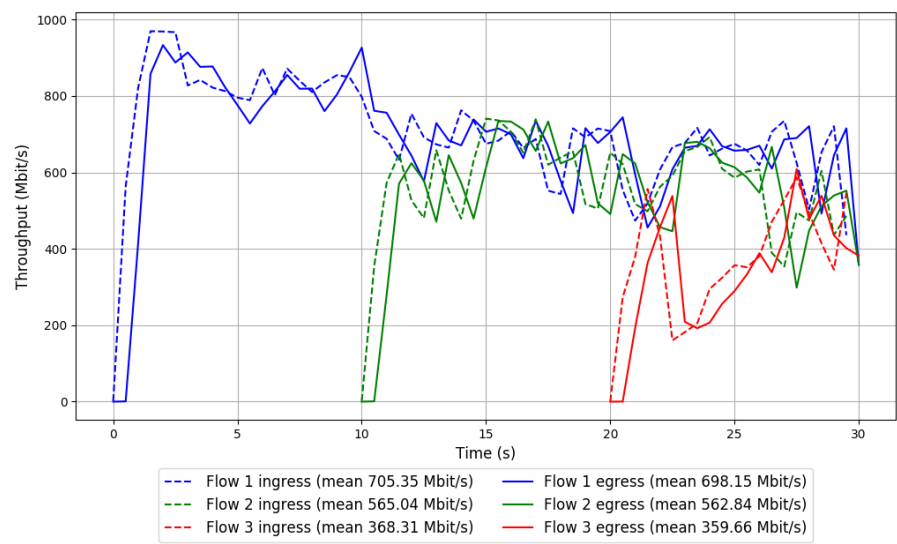
-- Flow 3:

Average throughput: 359.66 Mbit/s

95th percentile per-packet one-way delay: 182.223 ms

Loss rate: 3.37%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-07 17:48:03

End at: 2018-06-07 17:48:33

Local clock offset: -0.135 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-06-07 21:22:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1256.91 Mbit/s

95th percentile per-packet one-way delay: 106.368 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 721.03 Mbit/s

95th percentile per-packet one-way delay: 111.086 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 575.99 Mbit/s

95th percentile per-packet one-way delay: 80.816 ms

Loss rate: 0.41%

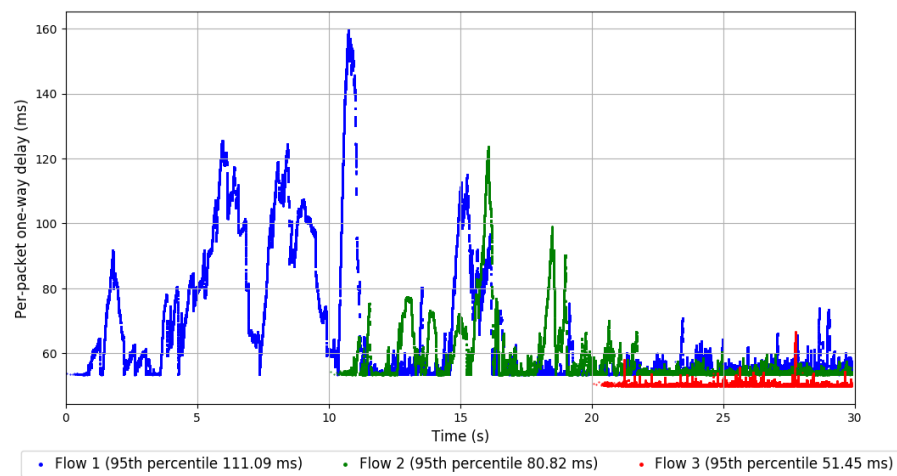
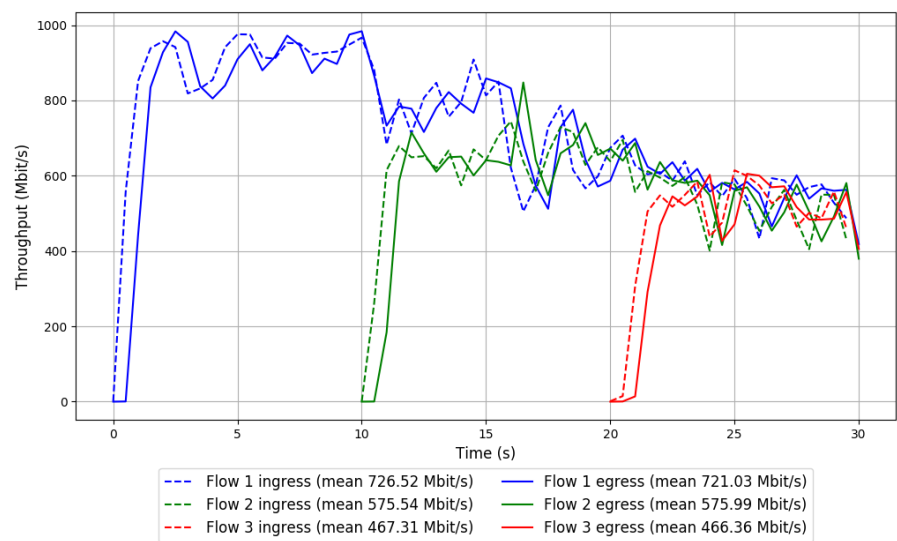
-- Flow 3:

Average throughput: 466.36 Mbit/s

95th percentile per-packet one-way delay: 51.452 ms

Loss rate: 1.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-07 18:11:08

End at: 2018-06-07 18:11:38

Local clock offset: 0.097 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-06-07 21:24:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1292.30 Mbit/s

95th percentile per-packet one-way delay: 126.446 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 720.42 Mbit/s

95th percentile per-packet one-way delay: 127.031 ms

Loss rate: 3.52%

-- Flow 2:

Average throughput: 653.05 Mbit/s

95th percentile per-packet one-way delay: 125.693 ms

Loss rate: 0.32%

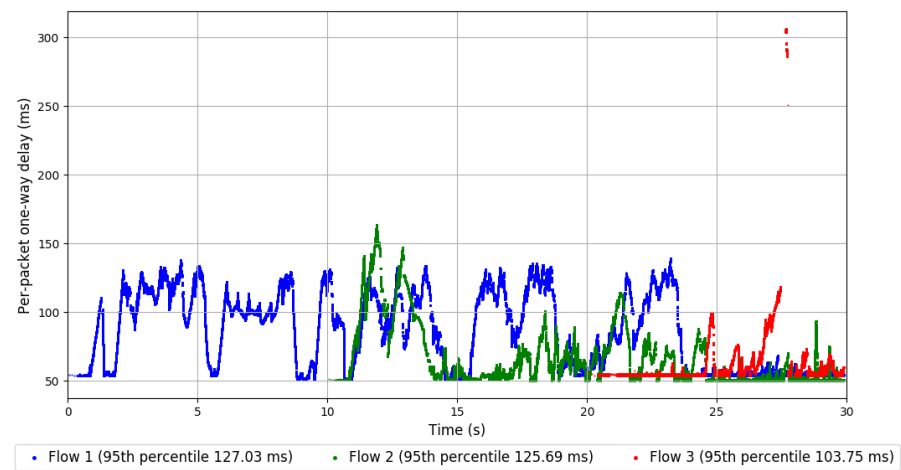
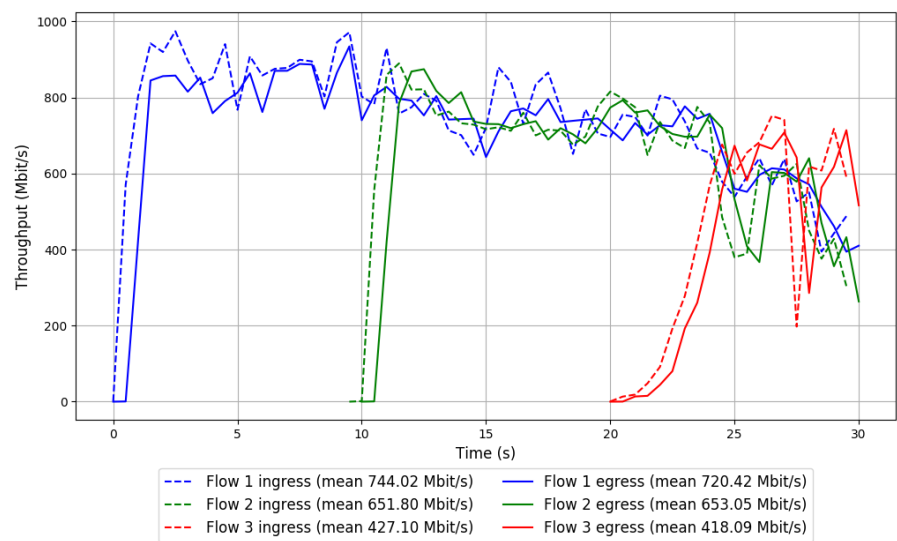
-- Flow 3:

Average throughput: 418.09 Mbit/s

95th percentile per-packet one-way delay: 103.754 ms

Loss rate: 3.14%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-07 18:33:54

End at: 2018-06-07 18:34:24

Local clock offset: -0.101 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2018-06-07 21:24:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1216.05 Mbit/s

95th percentile per-packet one-way delay: 108.419 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 659.95 Mbit/s

95th percentile per-packet one-way delay: 112.944 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 576.27 Mbit/s

95th percentile per-packet one-way delay: 104.418 ms

Loss rate: 1.23%

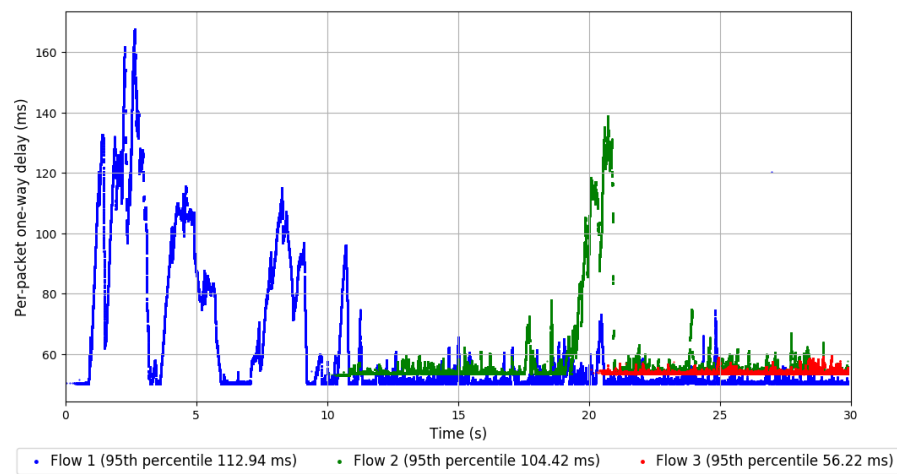
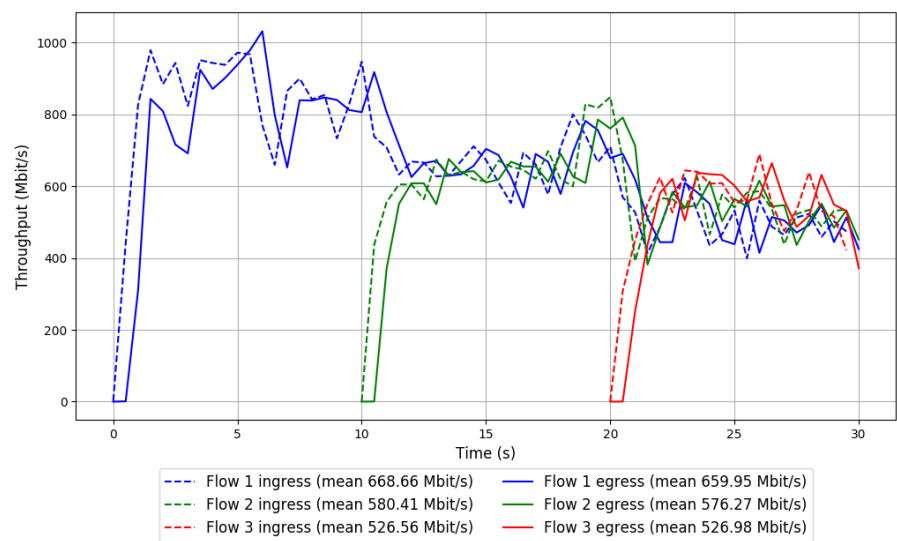
-- Flow 3:

Average throughput: 526.98 Mbit/s

95th percentile per-packet one-way delay: 56.219 ms

Loss rate: 0.90%

Run 6: Report of FillP — Data Link

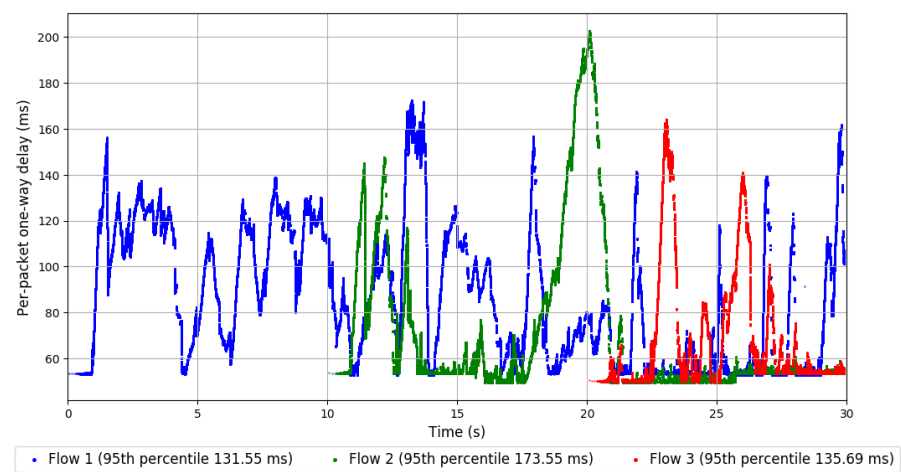
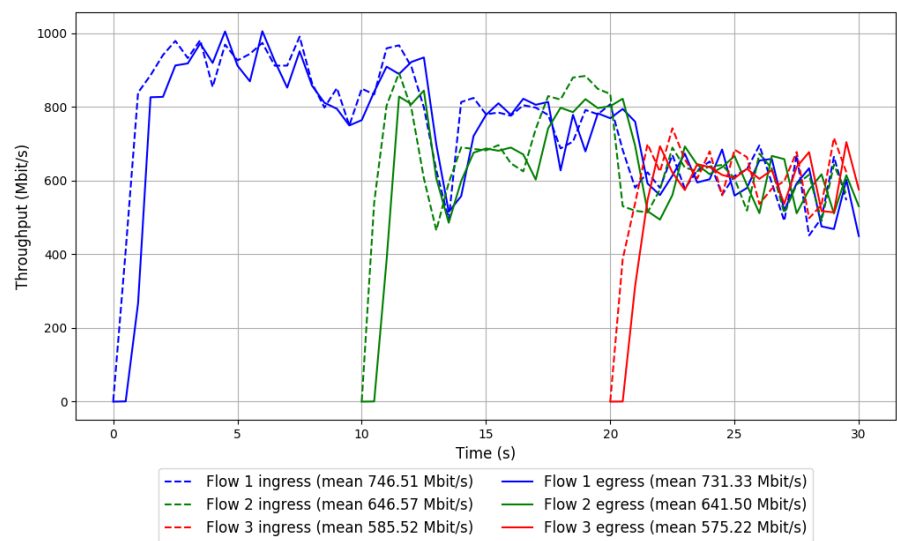


Run 7: Statistics of FillP

Start at: 2018-06-07 18:57:00
End at: 2018-06-07 18:57:30
Local clock offset: -0.37 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-07 21:26:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 1346.63 Mbit/s
95th percentile per-packet one-way delay: 139.535 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 731.33 Mbit/s
95th percentile per-packet one-way delay: 131.546 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 641.50 Mbit/s
95th percentile per-packet one-way delay: 173.551 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 575.22 Mbit/s
95th percentile per-packet one-way delay: 135.695 ms
Loss rate: 2.75%

Run 7: Report of FillP — Data Link

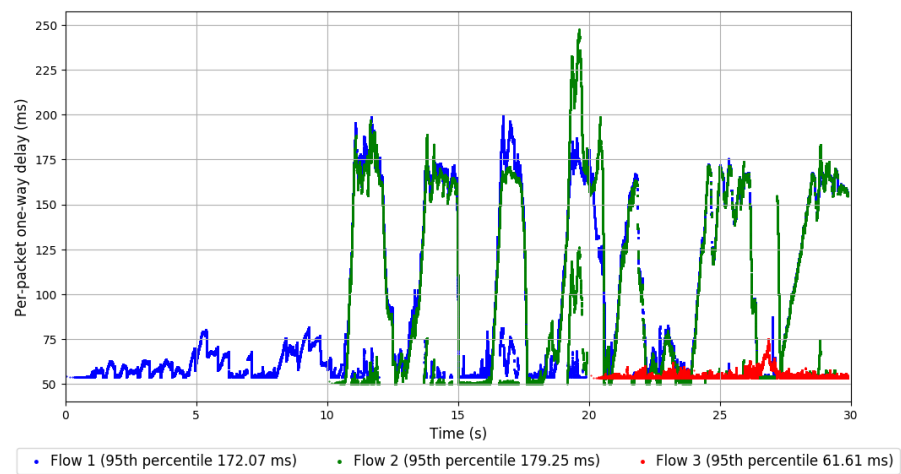
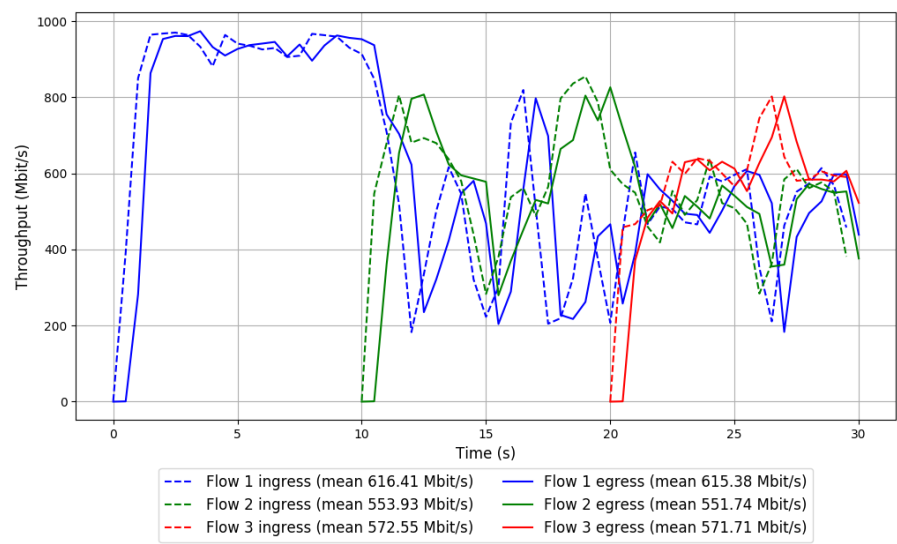


Run 8: Statistics of FillP

Start at: 2018-06-07 19:20:11
End at: 2018-06-07 19:20:41
Local clock offset: -0.005 ms
Remote clock offset: -0.511 ms

Below is generated by plot.py at 2018-06-07 21:26:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 1170.21 Mbit/s
95th percentile per-packet one-way delay: 171.691 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 615.38 Mbit/s
95th percentile per-packet one-way delay: 172.074 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 551.74 Mbit/s
95th percentile per-packet one-way delay: 179.247 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 571.71 Mbit/s
95th percentile per-packet one-way delay: 61.610 ms
Loss rate: 1.18%

Run 8: Report of FillP — Data Link

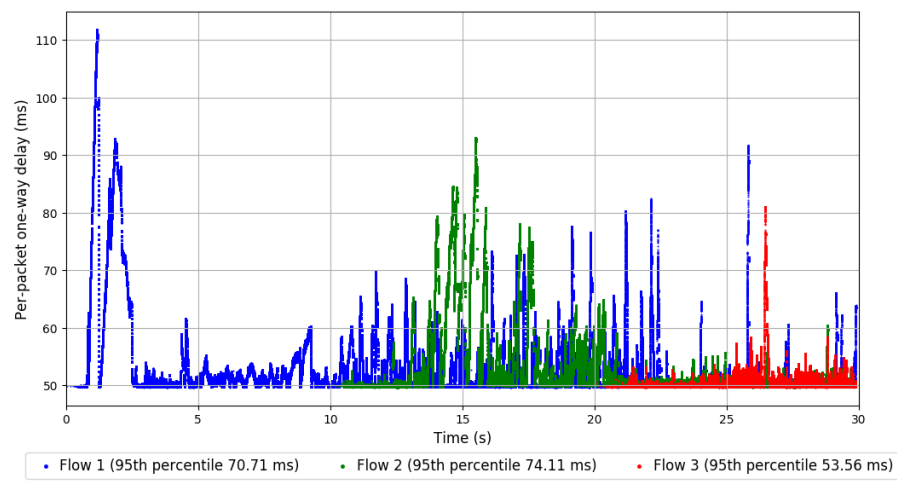
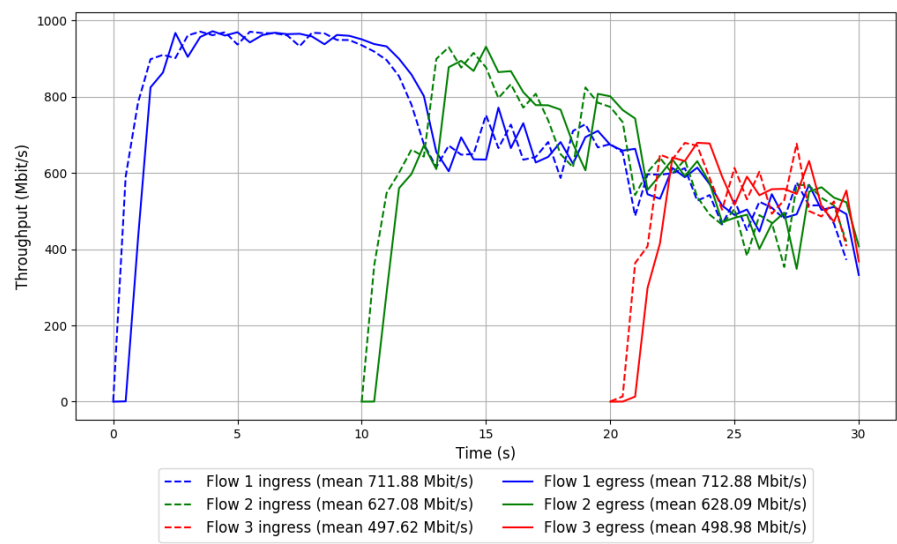


Run 9: Statistics of FillP

Start at: 2018-06-07 19:42:30
End at: 2018-06-07 19:43:00
Local clock offset: -0.13 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-06-07 21:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 1293.64 Mbit/s
95th percentile per-packet one-way delay: 71.306 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 712.88 Mbit/s
95th percentile per-packet one-way delay: 70.707 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 628.09 Mbit/s
95th percentile per-packet one-way delay: 74.115 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 498.98 Mbit/s
95th percentile per-packet one-way delay: 53.562 ms
Loss rate: 0.83%

Run 9: Report of FillP — Data Link

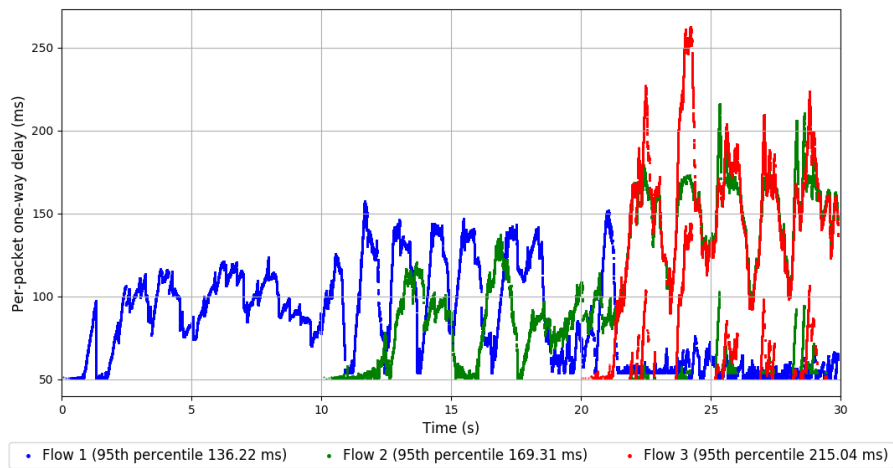
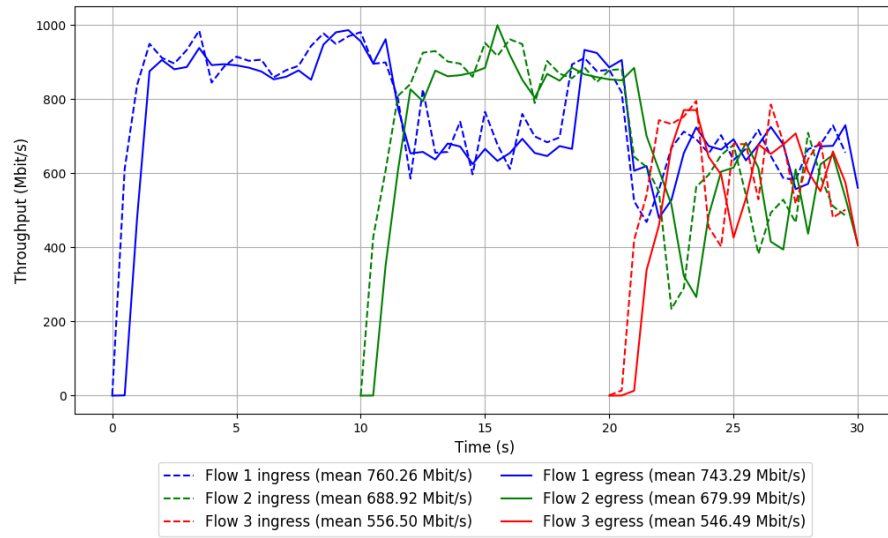


Run 10: Statistics of FillP

Start at: 2018-06-07 20:05:01
End at: 2018-06-07 20:05:31
Local clock offset: 0.051 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 1374.61 Mbit/s
95th percentile per-packet one-way delay: 169.200 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 743.29 Mbit/s
95th percentile per-packet one-way delay: 136.217 ms
Loss rate: 2.56%
-- Flow 2:
Average throughput: 679.99 Mbit/s
95th percentile per-packet one-way delay: 169.311 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 546.49 Mbit/s
95th percentile per-packet one-way delay: 215.040 ms
Loss rate: 2.80%

Run 10: Report of FillP — Data Link

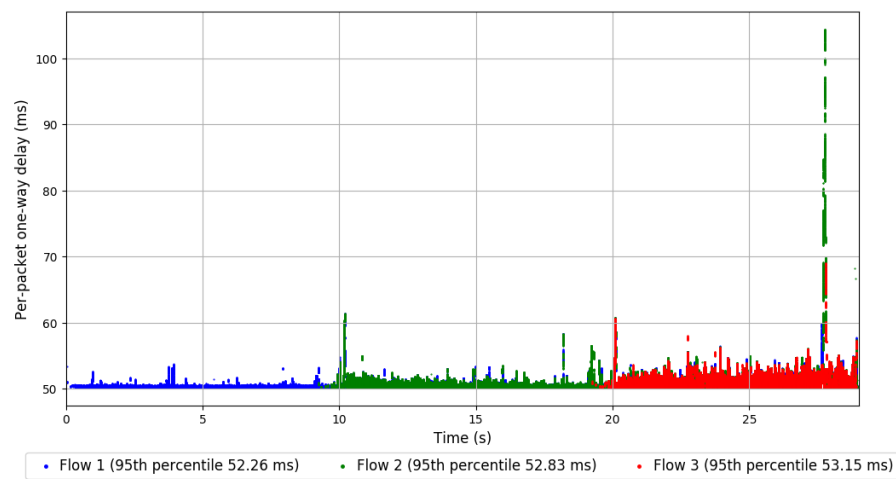
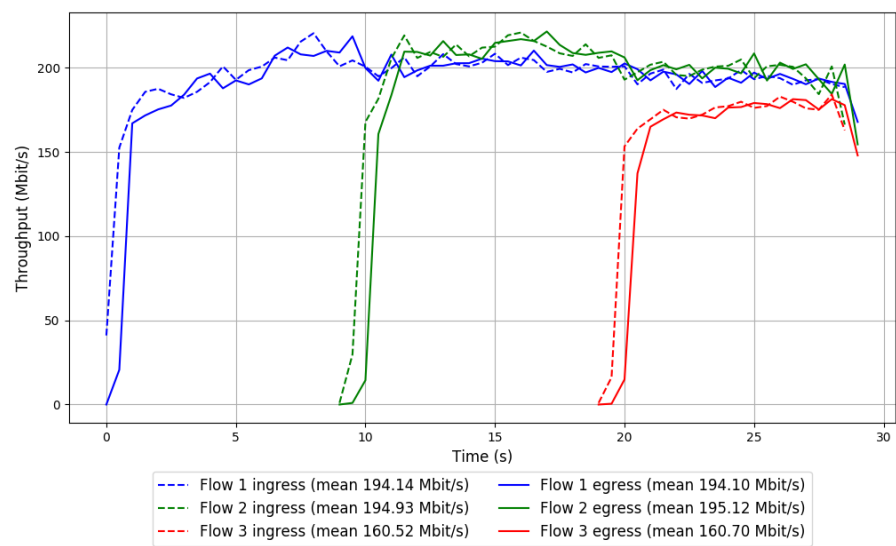


```
Run 1: Statistics of Indigo

Start at: 2018-06-07 16:49:04
End at: 2018-06-07 16:49:34
Local clock offset: 0.053 ms
Remote clock offset: -1.062 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.92 Mbit/s
95th percentile per-packet one-way delay: 52.668 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 194.10 Mbit/s
95th percentile per-packet one-way delay: 52.261 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 195.12 Mbit/s
95th percentile per-packet one-way delay: 52.834 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 160.70 Mbit/s
95th percentile per-packet one-way delay: 53.148 ms
Loss rate: 1.07%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-07 17:11:26

End at: 2018-06-07 17:11:56

Local clock offset: -0.253 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.73 Mbit/s

95th percentile per-packet one-way delay: 54.456 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 204.35 Mbit/s

95th percentile per-packet one-way delay: 53.503 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 188.30 Mbit/s

95th percentile per-packet one-way delay: 54.603 ms

Loss rate: 0.54%

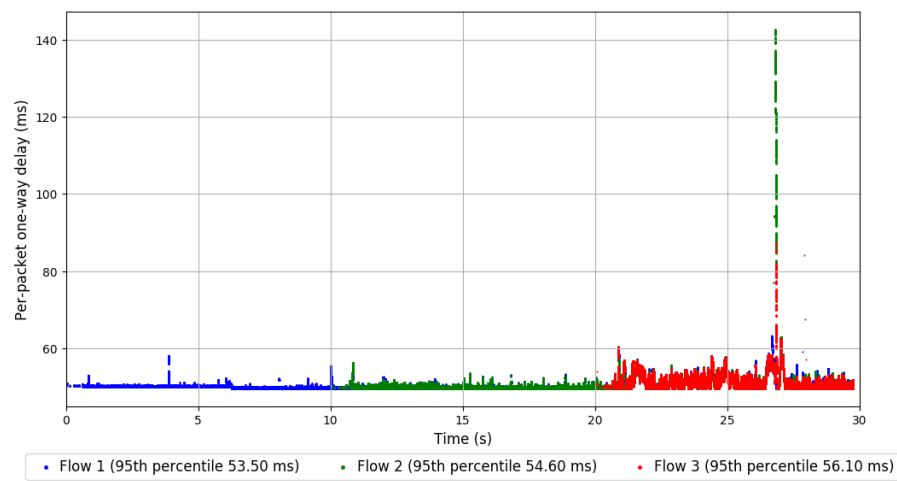
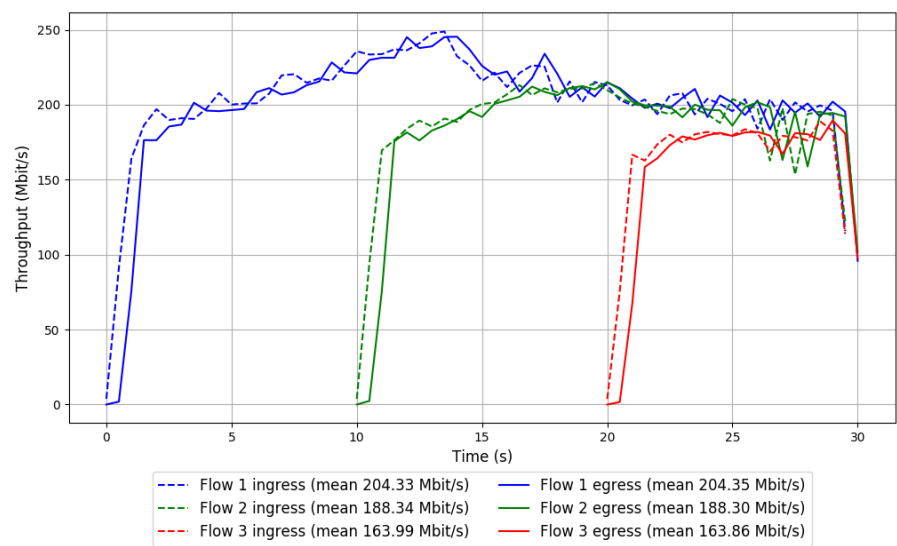
-- Flow 3:

Average throughput: 163.86 Mbit/s

95th percentile per-packet one-way delay: 56.097 ms

Loss rate: 1.12%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-07 17:34:33

End at: 2018-06-07 17:35:03

Local clock offset: -0.176 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.24 Mbit/s

95th percentile per-packet one-way delay: 53.217 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 207.43 Mbit/s

95th percentile per-packet one-way delay: 52.815 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 185.30 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.50%

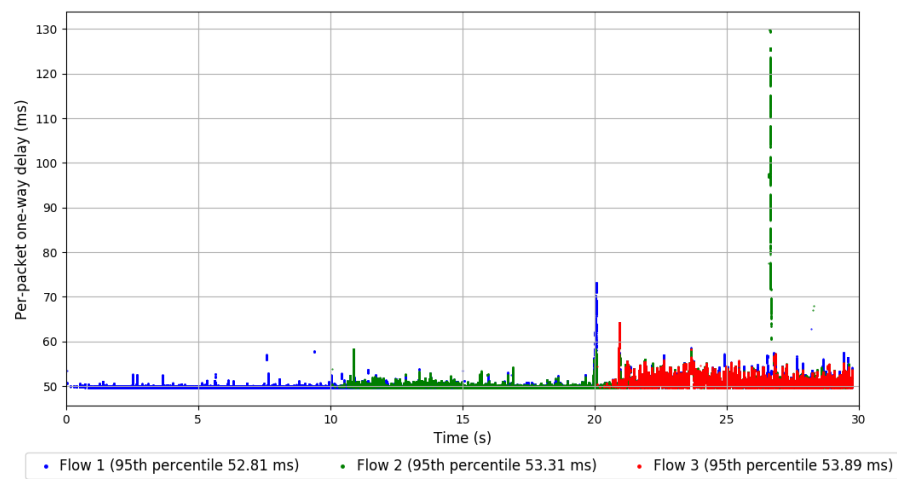
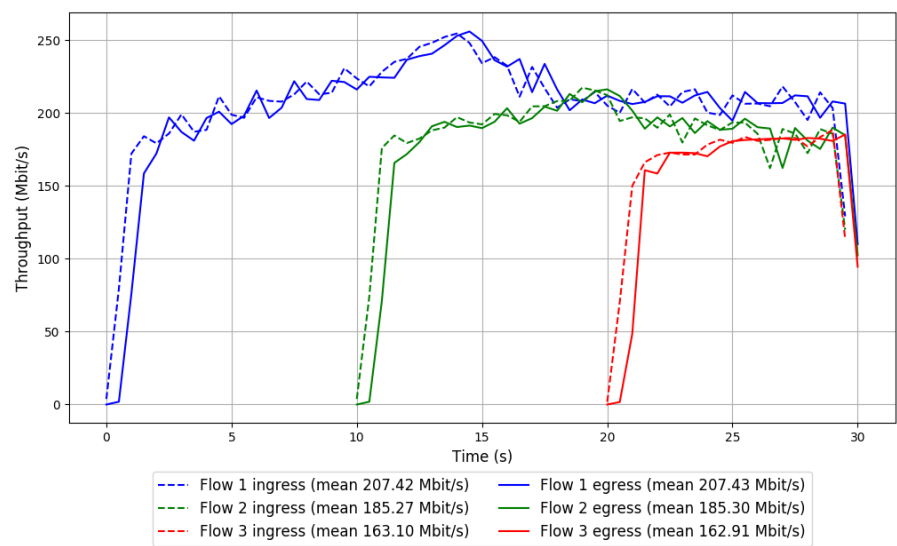
-- Flow 3:

Average throughput: 162.91 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 1.18%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-07 17:57:31

End at: 2018-06-07 17:58:01

Local clock offset: 0.186 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.81 Mbit/s

95th percentile per-packet one-way delay: 53.039 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 219.27 Mbit/s

95th percentile per-packet one-way delay: 52.751 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 208.84 Mbit/s

95th percentile per-packet one-way delay: 53.163 ms

Loss rate: 0.41%

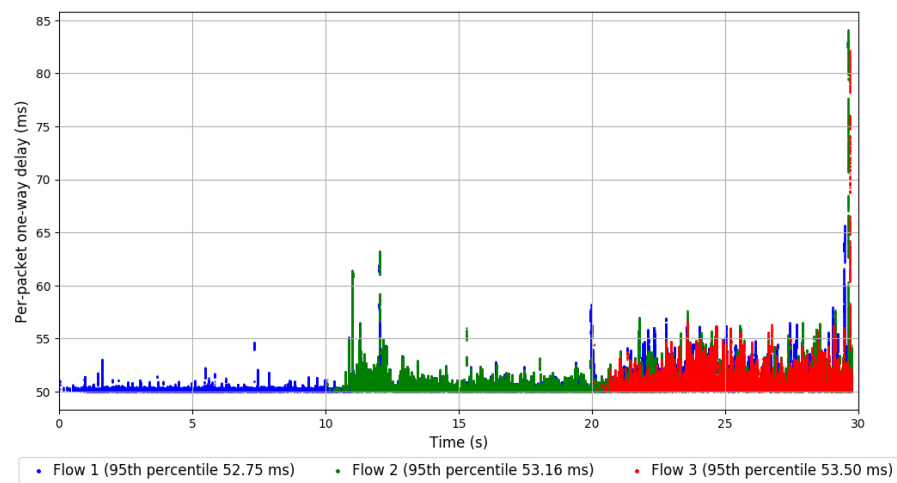
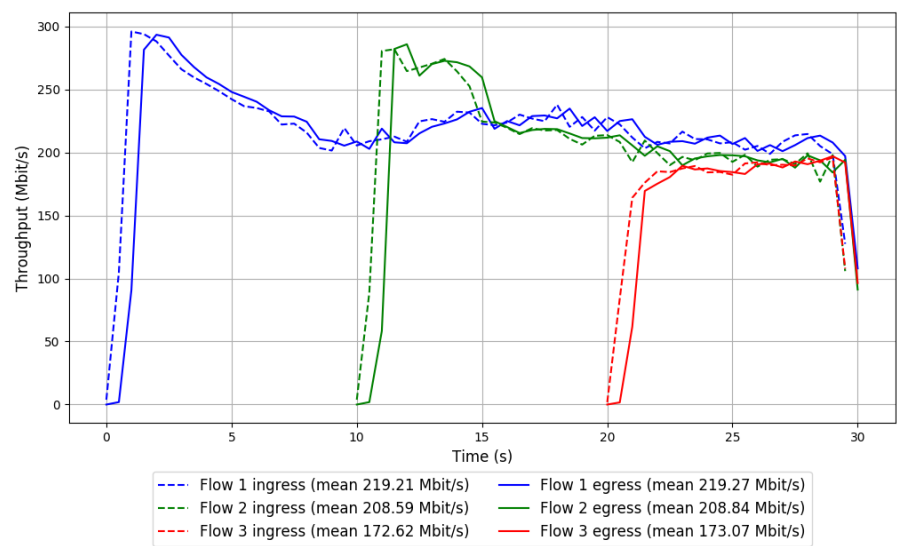
-- Flow 3:

Average throughput: 173.07 Mbit/s

95th percentile per-packet one-way delay: 53.498 ms

Loss rate: 0.92%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-07 18:20:10

End at: 2018-06-07 18:20:40

Local clock offset: -0.152 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.79 Mbit/s

95th percentile per-packet one-way delay: 52.645 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 209.58 Mbit/s

95th percentile per-packet one-way delay: 52.140 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 185.74 Mbit/s

95th percentile per-packet one-way delay: 52.728 ms

Loss rate: 0.49%

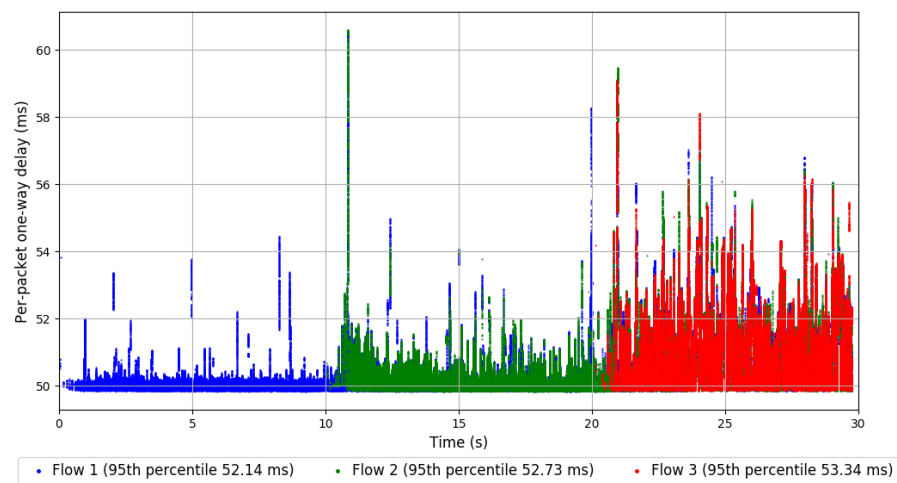
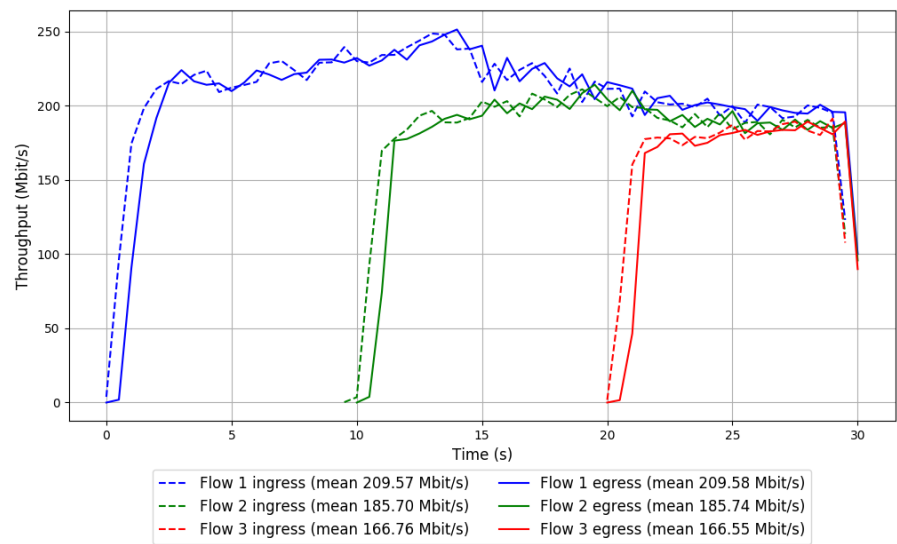
-- Flow 3:

Average throughput: 166.55 Mbit/s

95th percentile per-packet one-way delay: 53.339 ms

Loss rate: 1.17%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-07 18:43:03

End at: 2018-06-07 18:43:33

Local clock offset: -0.409 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.45 Mbit/s

95th percentile per-packet one-way delay: 55.085 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 219.01 Mbit/s

95th percentile per-packet one-way delay: 54.096 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 205.88 Mbit/s

95th percentile per-packet one-way delay: 55.335 ms

Loss rate: 0.60%

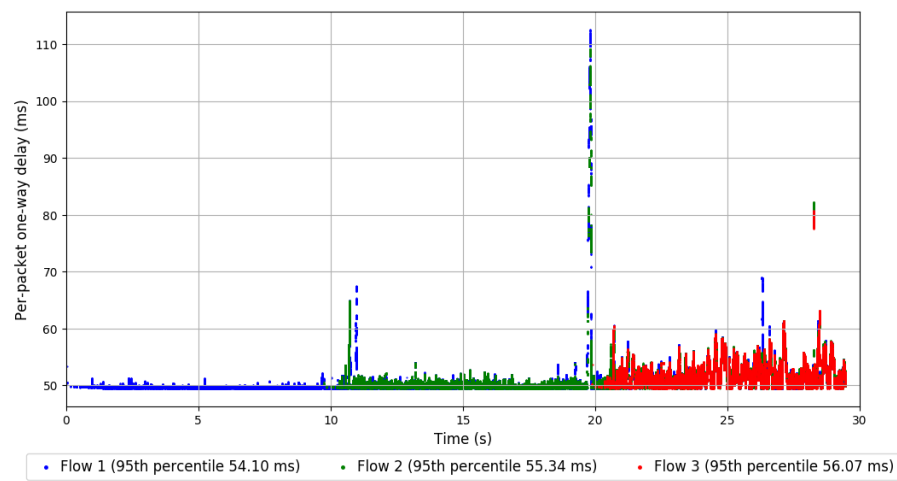
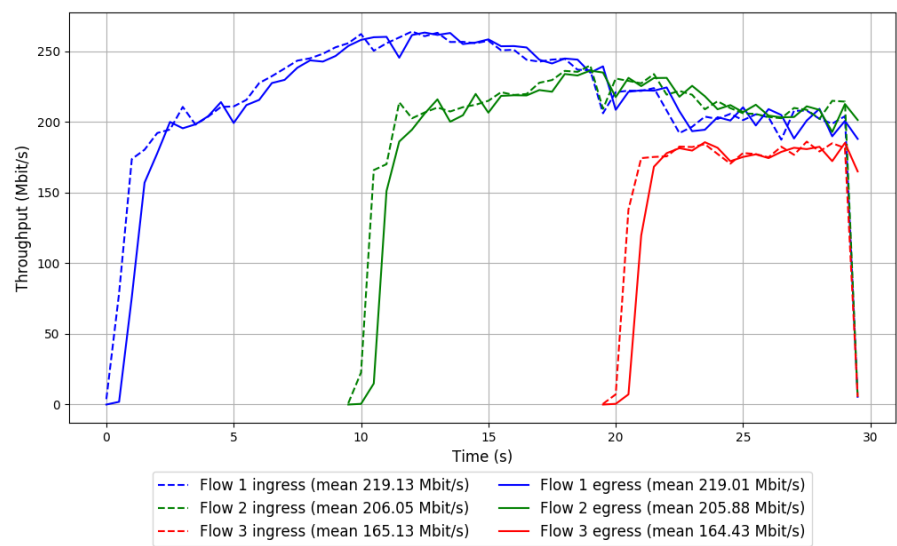
-- Flow 3:

Average throughput: 164.43 Mbit/s

95th percentile per-packet one-way delay: 56.074 ms

Loss rate: 1.48%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-07 19:06:32

End at: 2018-06-07 19:07:02

Local clock offset: 0.023 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.72 Mbit/s

95th percentile per-packet one-way delay: 51.726 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 241.36 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 174.27 Mbit/s

95th percentile per-packet one-way delay: 51.829 ms

Loss rate: 0.57%

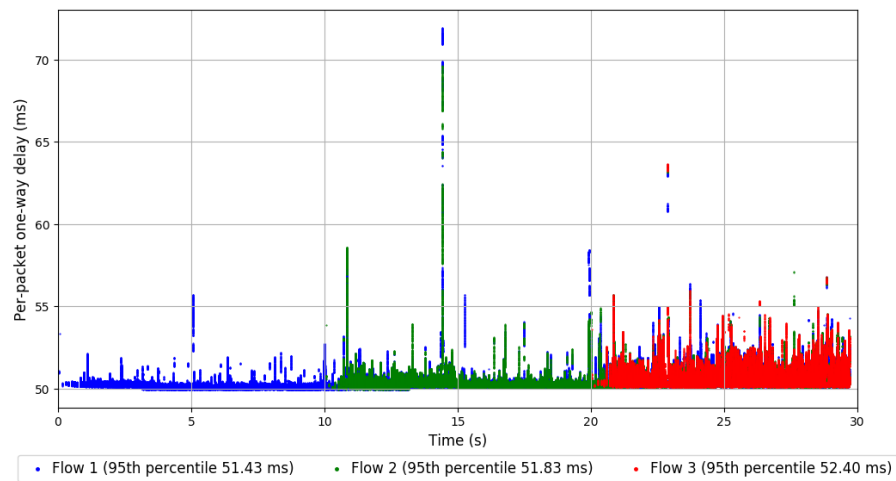
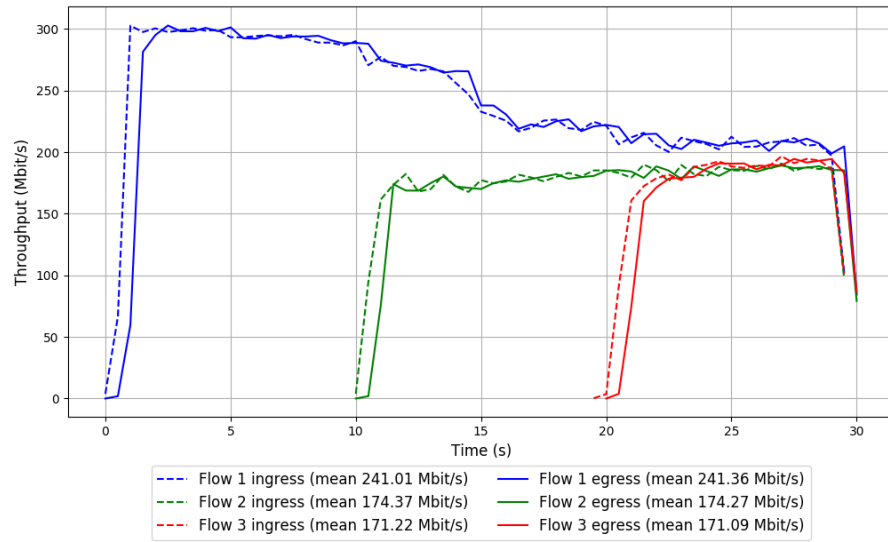
-- Flow 3:

Average throughput: 171.09 Mbit/s

95th percentile per-packet one-way delay: 52.398 ms

Loss rate: 1.11%

Run 7: Report of Indigo — Data Link

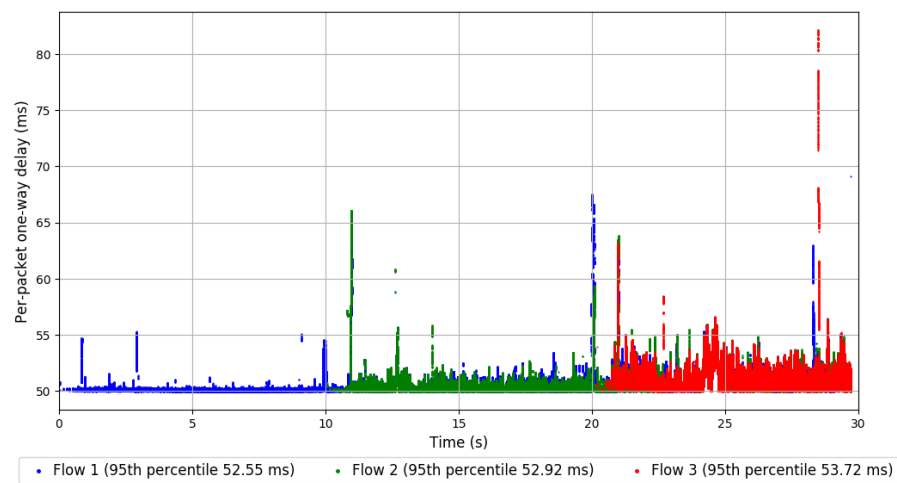
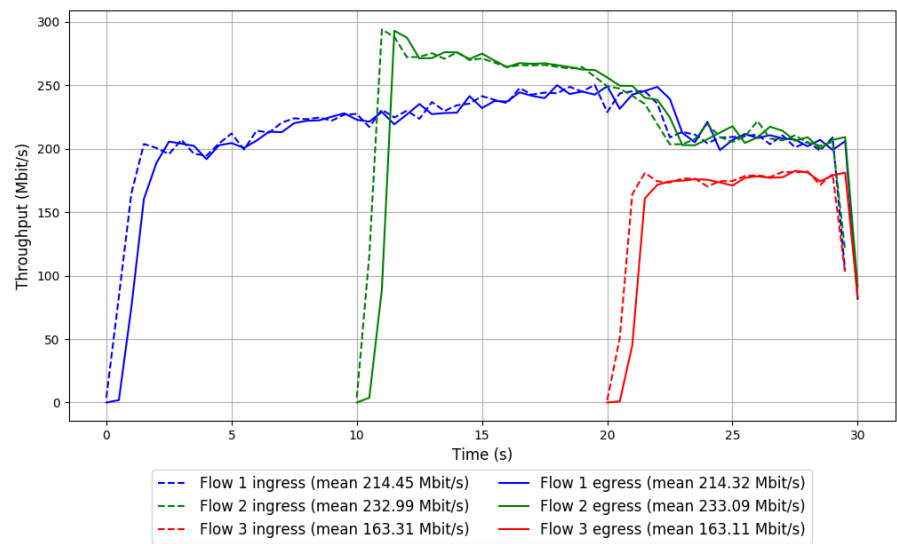


Run 8: Statistics of Indigo

Start at: 2018-06-07 19:29:11
End at: 2018-06-07 19:29:41
Local clock offset: -0.041 ms
Remote clock offset: -0.453 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 421.28 Mbit/s
95th percentile per-packet one-way delay: 52.911 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 214.32 Mbit/s
95th percentile per-packet one-way delay: 52.552 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 233.09 Mbit/s
95th percentile per-packet one-way delay: 52.925 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 53.715 ms
Loss rate: 1.18%

Run 8: Report of Indigo — Data Link

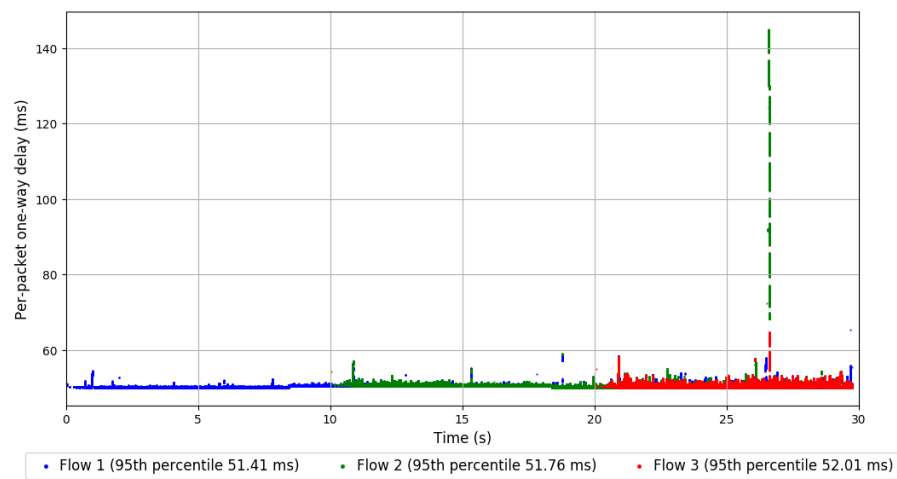
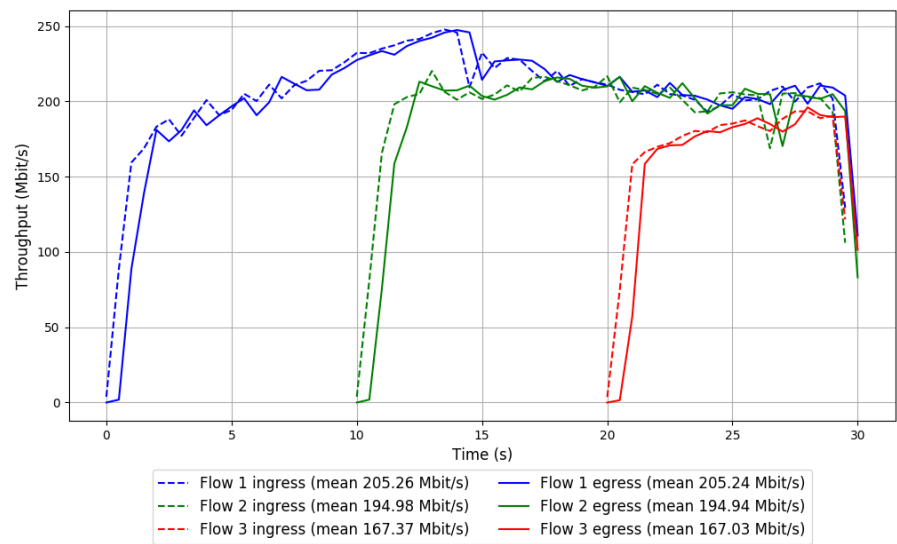


Run 9: Statistics of Indigo

Start at: 2018-06-07 19:51:37
End at: 2018-06-07 19:52:07
Local clock offset: 0.121 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 388.96 Mbit/s
95th percentile per-packet one-way delay: 51.651 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 205.24 Mbit/s
95th percentile per-packet one-way delay: 51.413 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 194.94 Mbit/s
95th percentile per-packet one-way delay: 51.764 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 167.03 Mbit/s
95th percentile per-packet one-way delay: 52.011 ms
Loss rate: 1.23%

Run 9: Report of Indigo — Data Link

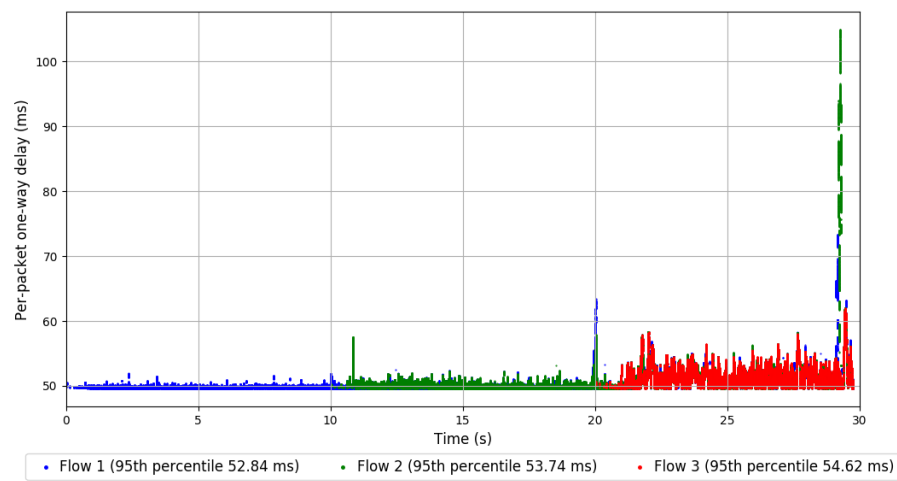
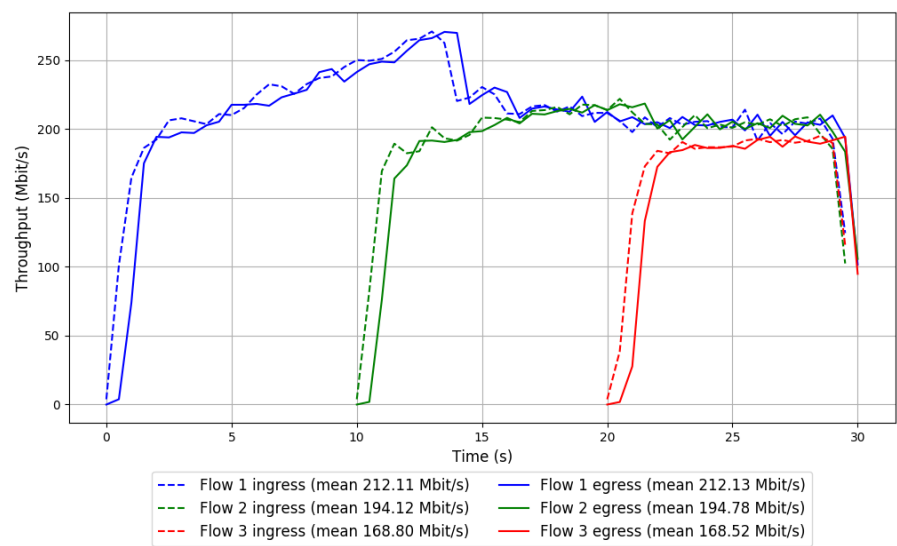


Run 10: Statistics of Indigo

Start at: 2018-06-07 20:14:13
End at: 2018-06-07 20:14:43
Local clock offset: -0.325 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 396.34 Mbit/s
95th percentile per-packet one-way delay: 53.535 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 212.13 Mbit/s
95th percentile per-packet one-way delay: 52.838 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 194.78 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 168.52 Mbit/s
95th percentile per-packet one-way delay: 54.623 ms
Loss rate: 1.19%

Run 10: Report of Indigo — Data Link

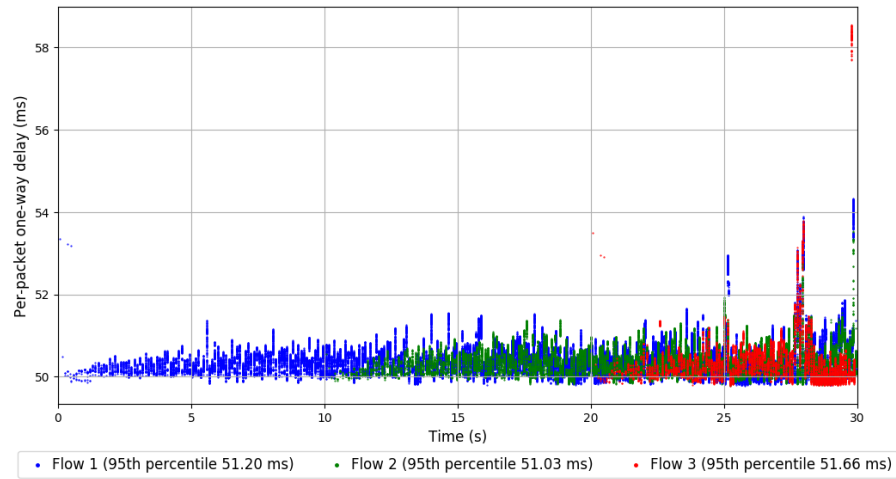
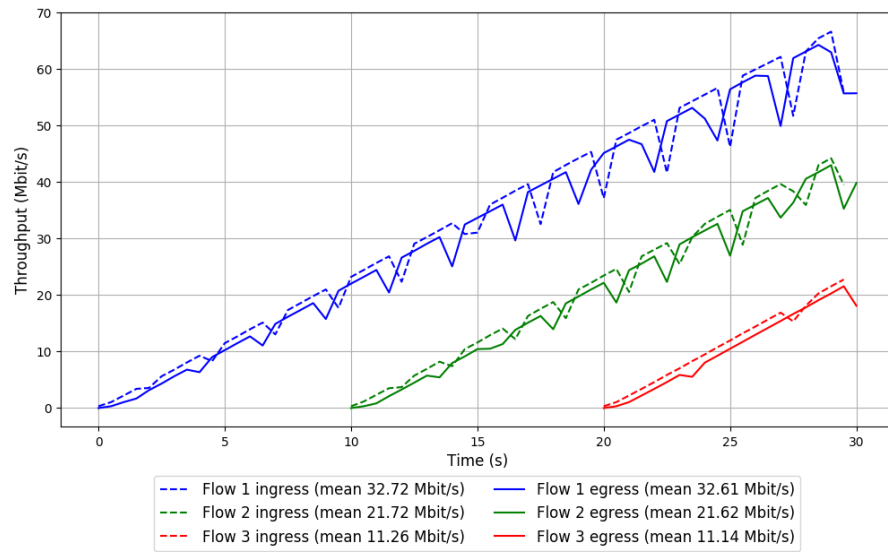


Run 1: Statistics of LEDBAT

Start at: 2018-06-07 16:47:52
End at: 2018-06-07 16:48:22
Local clock offset: -0.088 ms
Remote clock offset: -0.808 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 51.148 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 32.61 Mbit/s
95th percentile per-packet one-way delay: 51.197 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 51.034 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 11.14 Mbit/s
95th percentile per-packet one-way delay: 51.659 ms
Loss rate: 2.08%

Run 1: Report of LEDBAT — Data Link

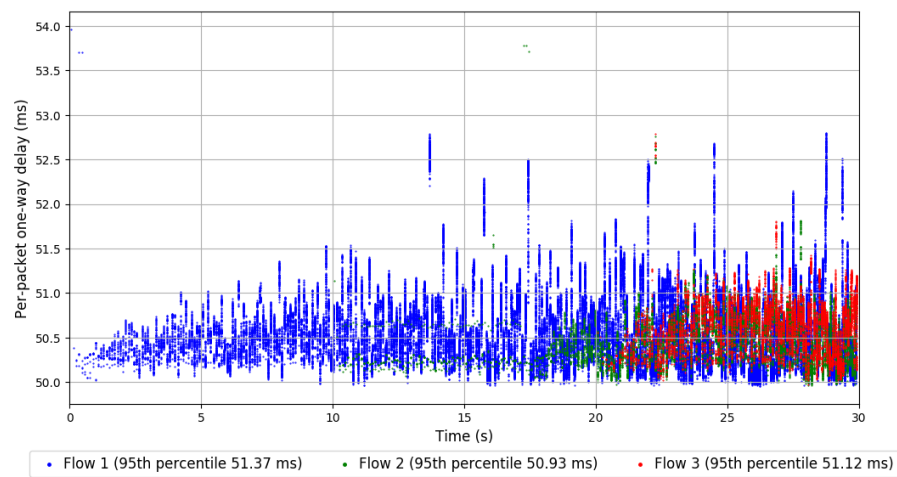
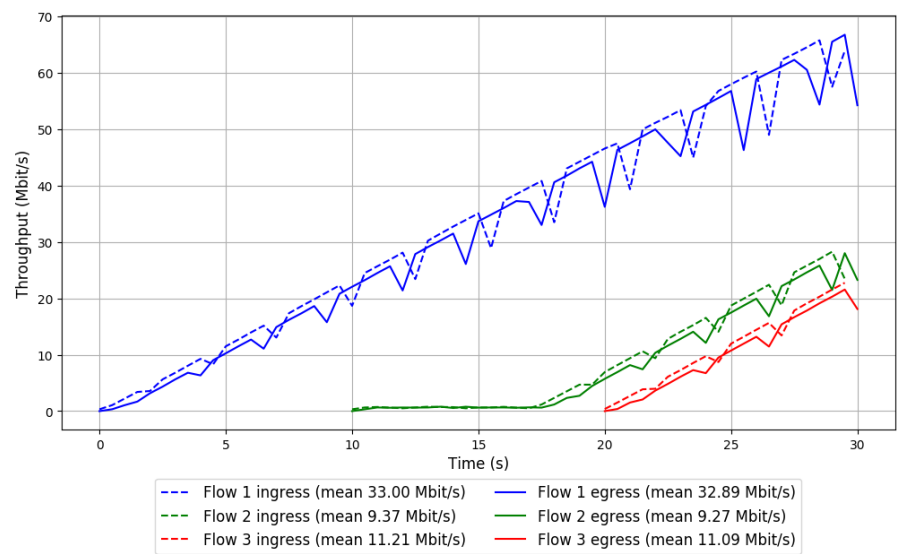


Run 2: Statistics of LEDBAT

Start at: 2018-06-07 17:10:15
End at: 2018-06-07 17:10:45
Local clock offset: -0.069 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.67 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 50.930 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 51.124 ms
Loss rate: 2.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-07 17:33:21

End at: 2018-06-07 17:33:51

Local clock offset: -0.181 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 51.614 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 51.704 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 21.91 Mbit/s

95th percentile per-packet one-way delay: 51.396 ms

Loss rate: 1.04%

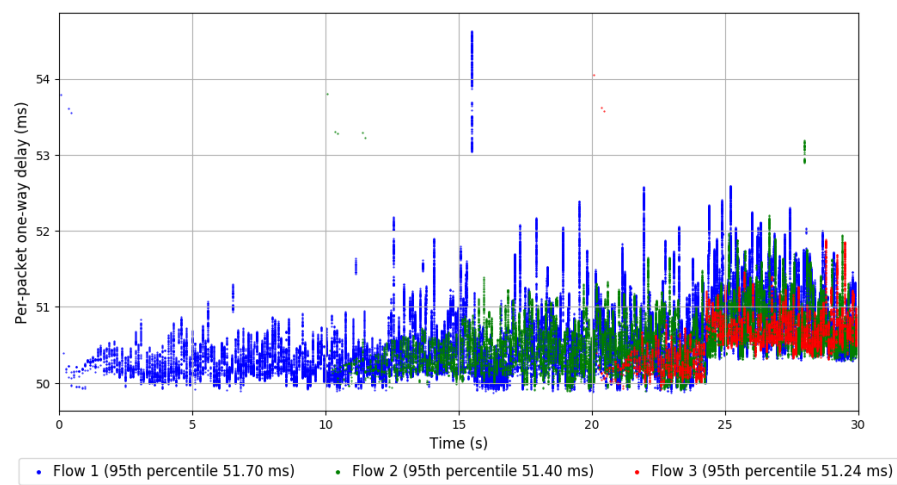
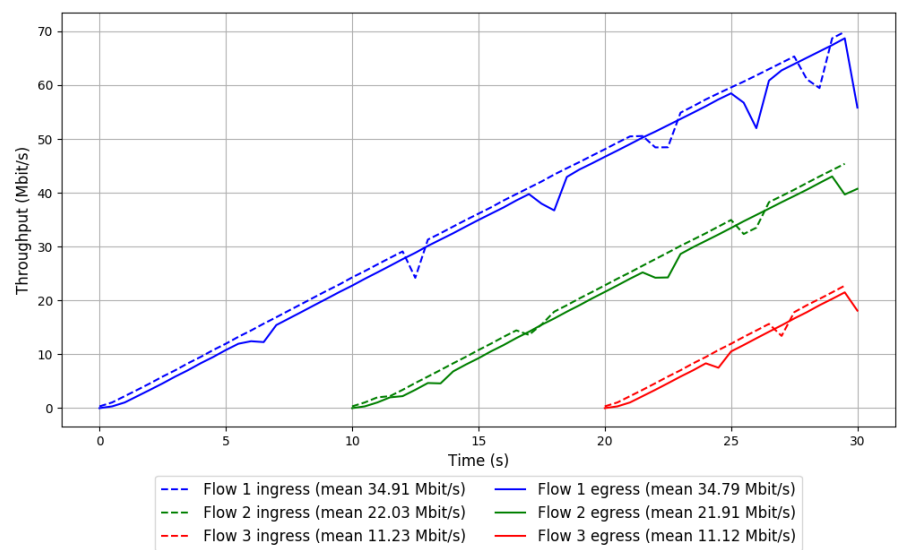
-- Flow 3:

Average throughput: 11.12 Mbit/s

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

Loss rate: 2.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-07 17:56:19

End at: 2018-06-07 17:56:49

Local clock offset: 0.217 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.82 Mbit/s

95th percentile per-packet one-way delay: 51.638 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 33.41 Mbit/s

95th percentile per-packet one-way delay: 51.685 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 51.562 ms

Loss rate: 1.07%

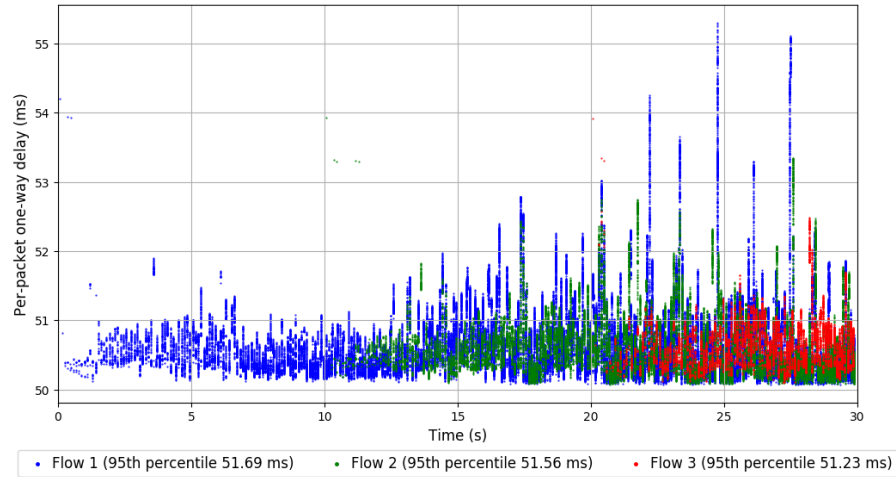
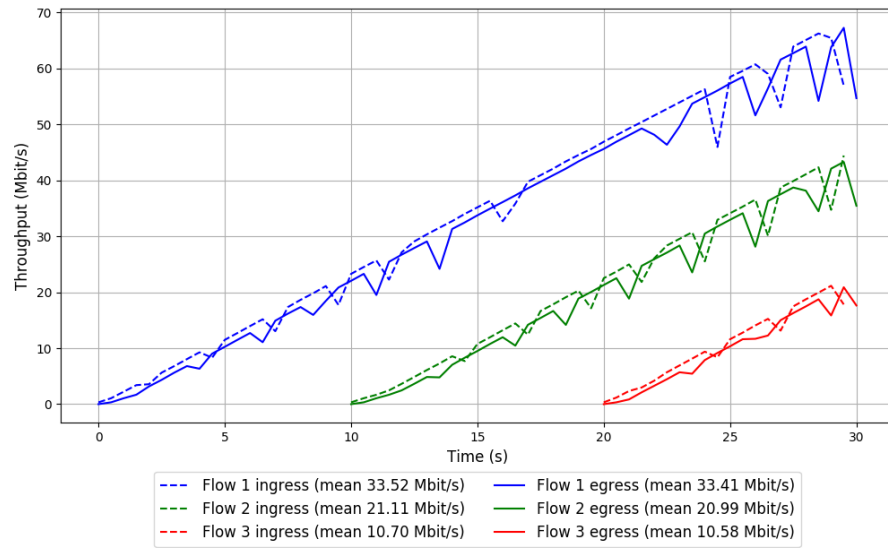
-- Flow 3:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 51.225 ms

Loss rate: 2.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-07 18:18:58

End at: 2018-06-07 18:19:28

Local clock offset: 0.099 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.13 Mbit/s

95th percentile per-packet one-way delay: 51.895 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 51.959 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 51.852 ms

Loss rate: 1.01%

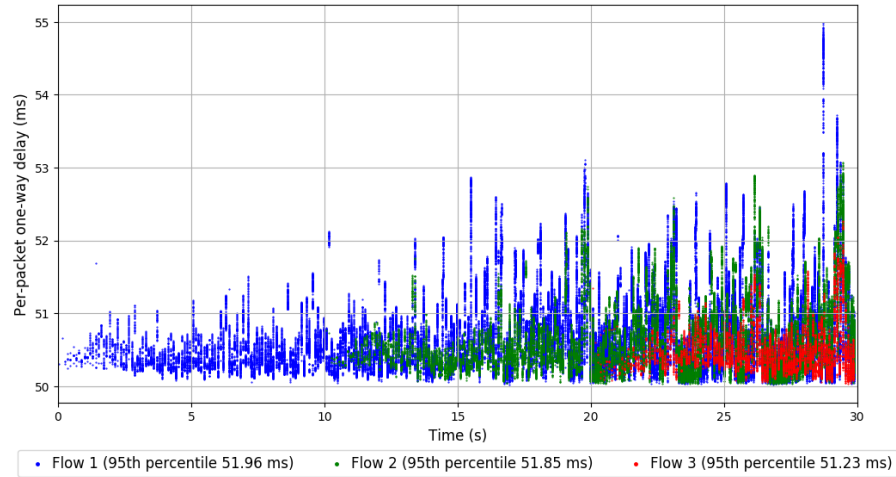
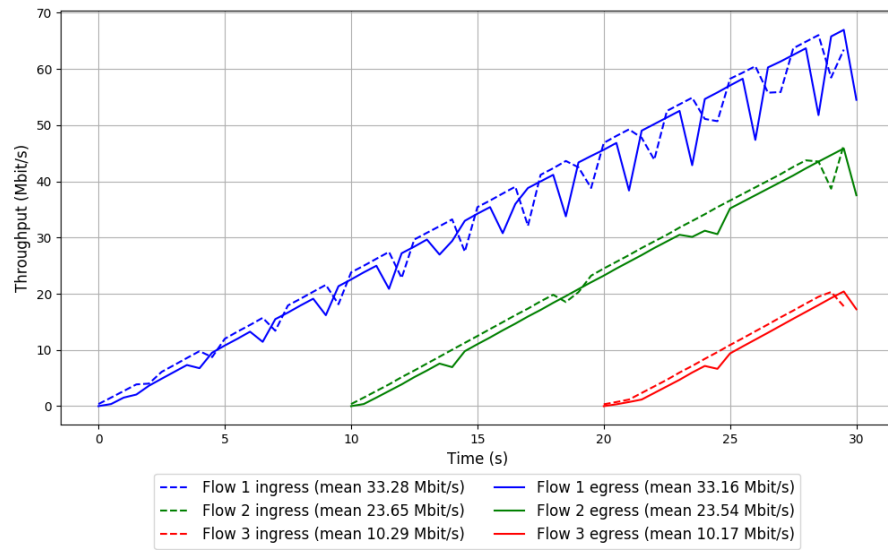
-- Flow 3:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 51.229 ms

Loss rate: 2.18%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-07 18:41:52

End at: 2018-06-07 18:42:22

Local clock offset: -0.097 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.45 Mbit/s

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

Loss rate: 0.89%

-- Flow 1:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 51.100 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 21.84 Mbit/s

95th percentile per-packet one-way delay: 50.995 ms

Loss rate: 1.05%

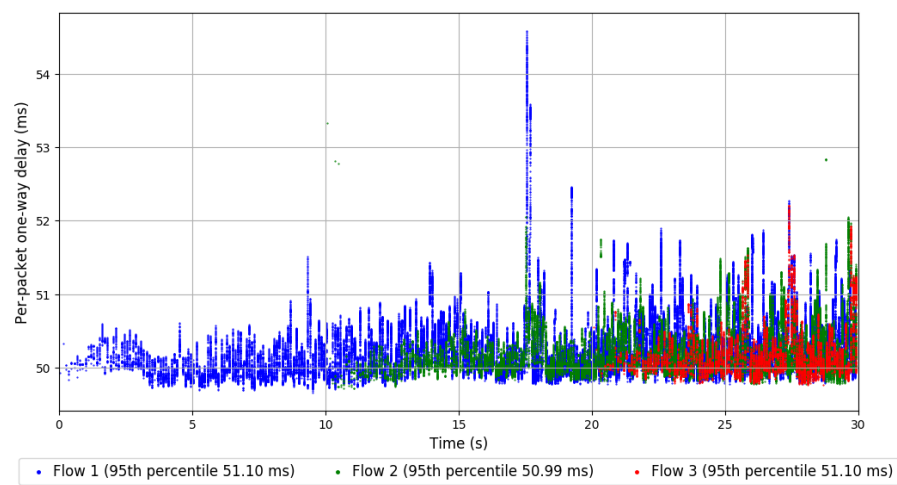
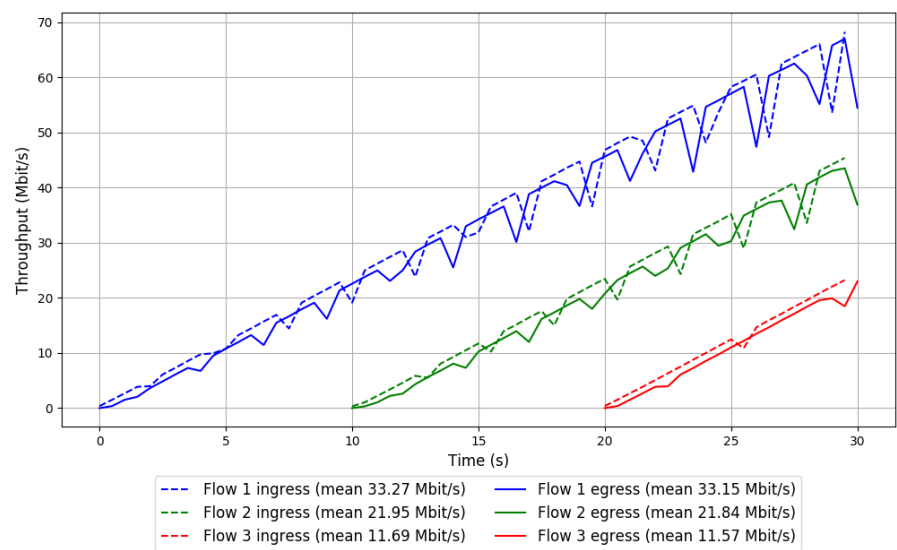
-- Flow 3:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 51.103 ms

Loss rate: 2.04%

Run 6: Report of LEDBAT — Data Link

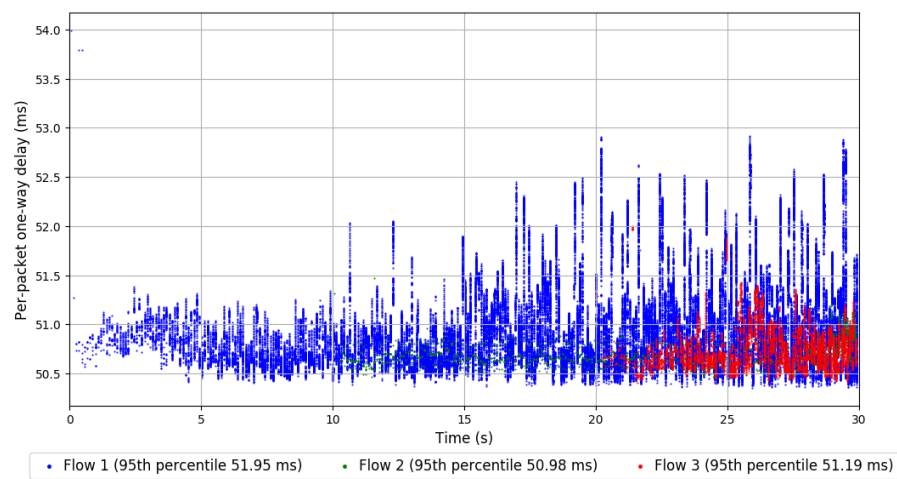
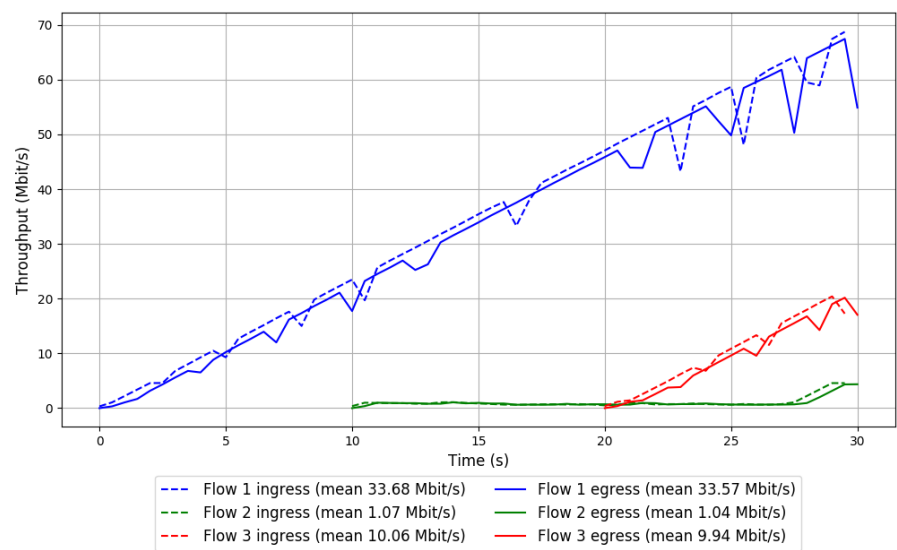


Run 7: Statistics of LEDBAT

Start at: 2018-06-07 19:05:21
End at: 2018-06-07 19:05:51
Local clock offset: 0.282 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 51.893 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 51.952 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 50.980 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 51.186 ms
Loss rate: 2.20%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-07 19:27:59

End at: 2018-06-07 19:28:29

Local clock offset: 0.141 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 51.646 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 51.668 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 23.00 Mbit/s

95th percentile per-packet one-way delay: 51.636 ms

Loss rate: 1.02%

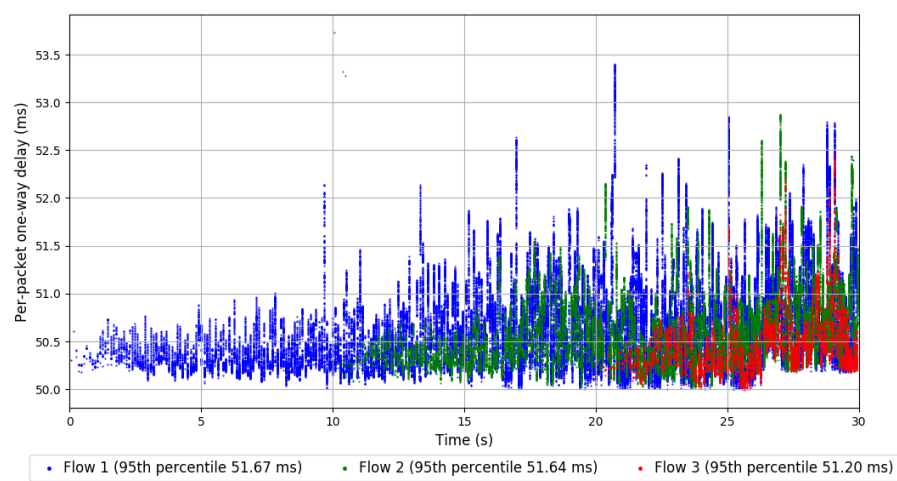
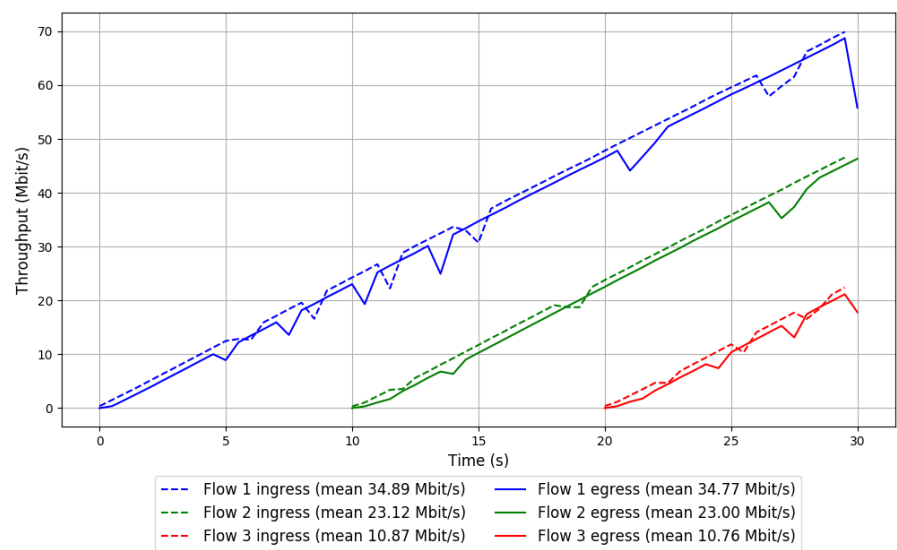
-- Flow 3:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 51.201 ms

Loss rate: 2.11%

Run 8: Report of LEDBAT — Data Link

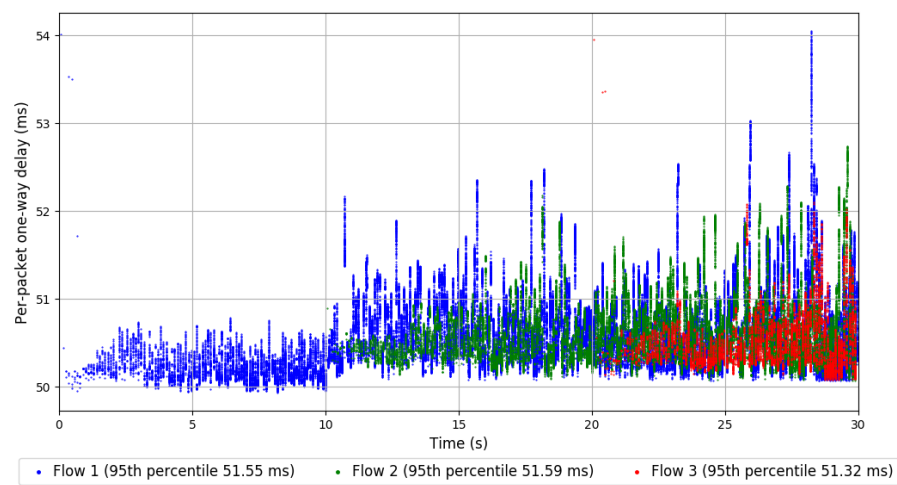
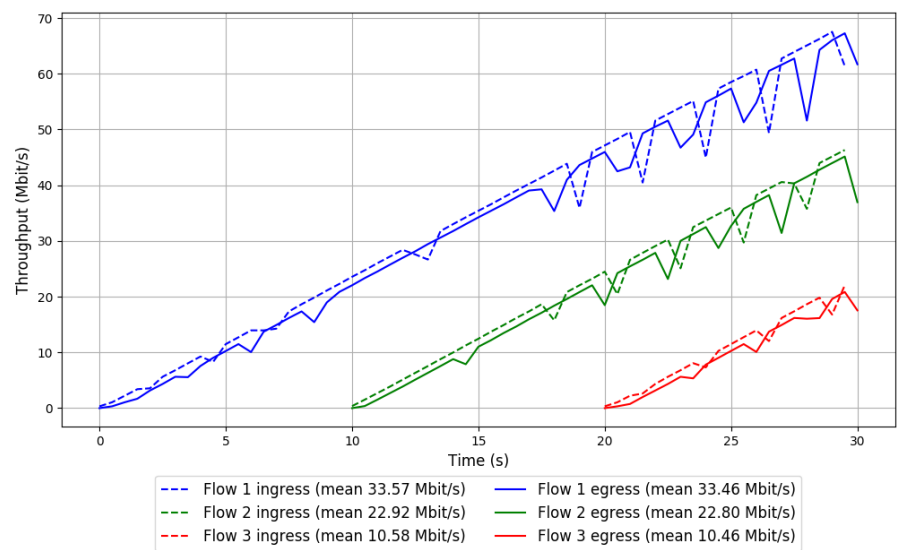


Run 9: Statistics of LEDBAT

Start at: 2018-06-07 19:50:25
End at: 2018-06-07 19:50:55
Local clock offset: -0.096 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.02 Mbit/s
95th percentile per-packet one-way delay: 51.548 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 51.551 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 51.591 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 51.319 ms
Loss rate: 2.15%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-07 20:13:02

End at: 2018-06-07 20:13:32

Local clock offset: 0.259 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 51.685 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 33.06 Mbit/s

95th percentile per-packet one-way delay: 51.771 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 51.407 ms

Loss rate: 1.03%

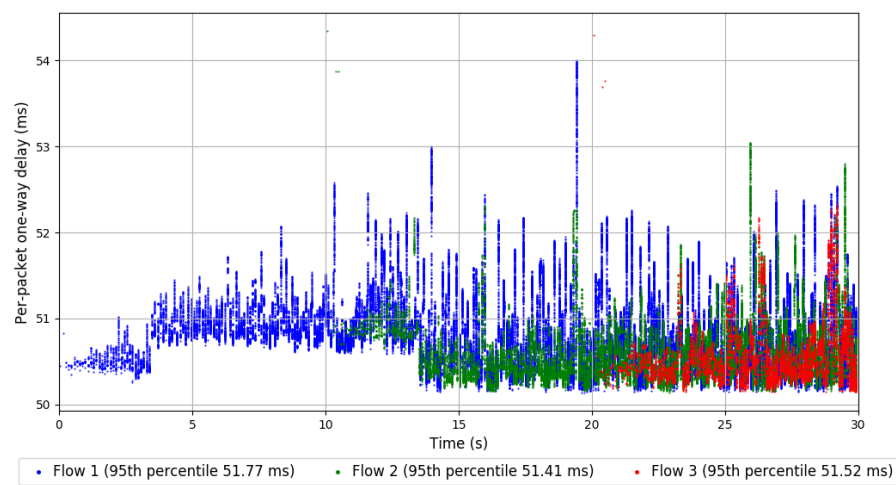
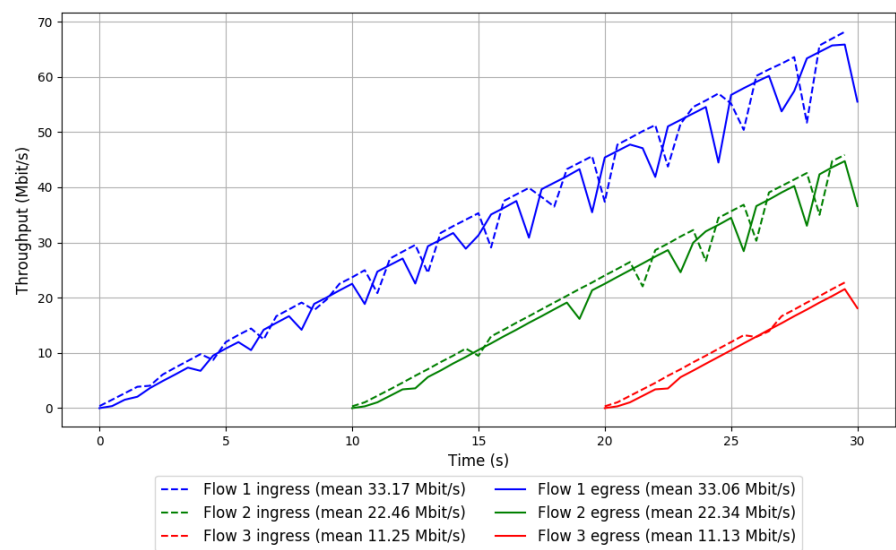
-- Flow 3:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 51.520 ms

Loss rate: 2.08%

Run 10: Report of LEDBAT — Data Link

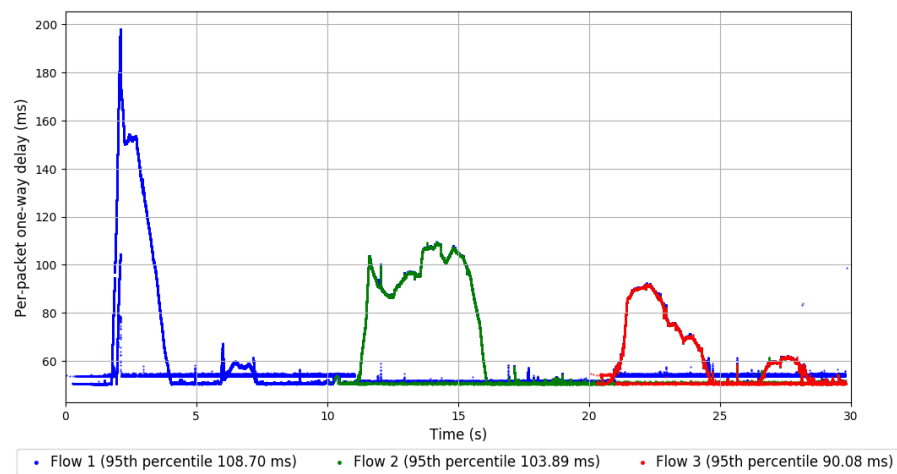
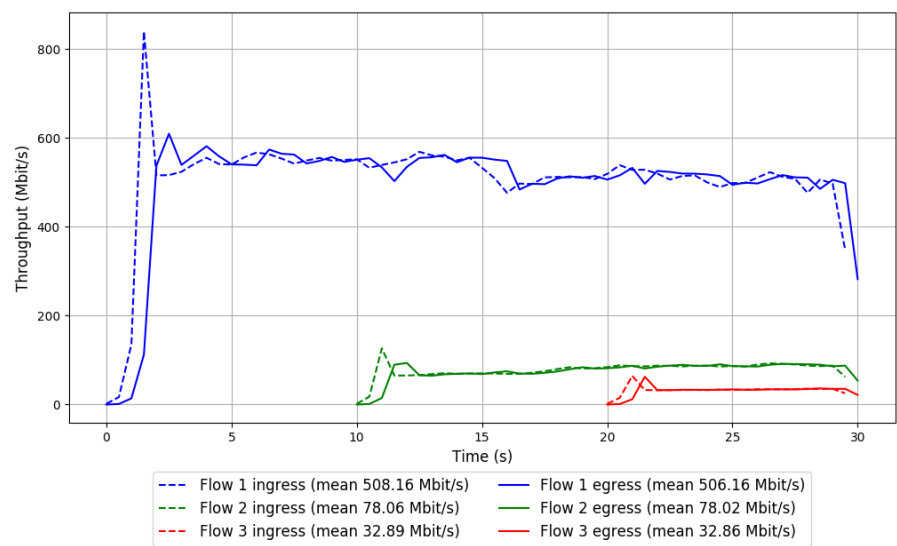


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 16:37:01
End at: 2018-06-07 16:37:31
Local clock offset: 0.107 ms
Remote clock offset: -1.002 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.63 Mbit/s
95th percentile per-packet one-way delay: 108.140 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 506.16 Mbit/s
95th percentile per-packet one-way delay: 108.701 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 103.893 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 90.080 ms
Loss rate: 1.12%

Run 1: Report of PCC-Allegro — Data Link

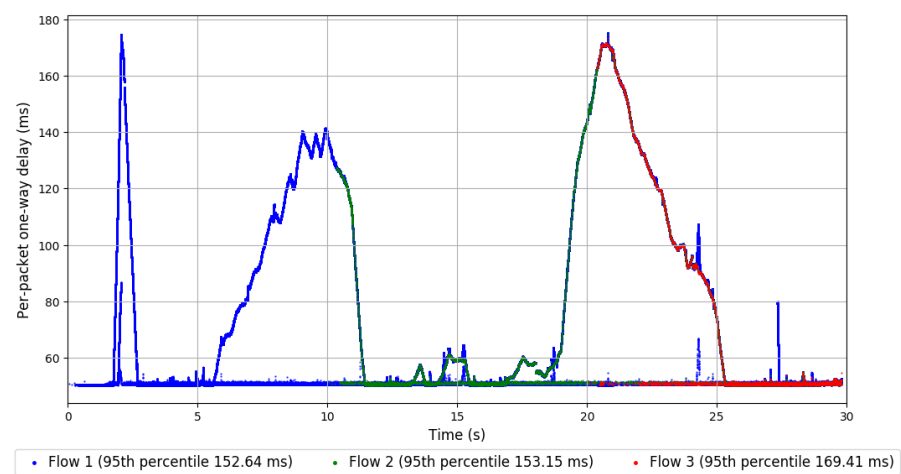
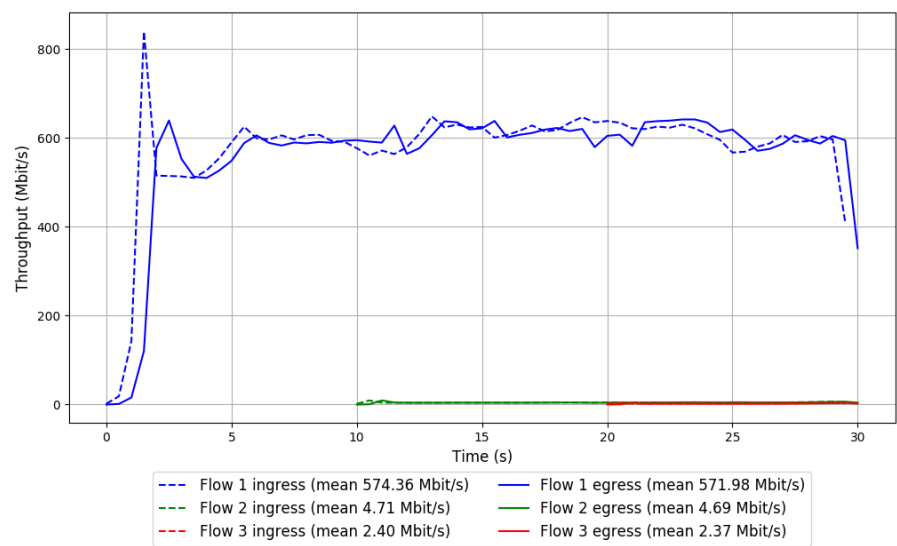


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 16:59:28
End at: 2018-06-07 16:59:58
Local clock offset: -0.058 ms
Remote clock offset: -0.598 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 575.79 Mbit/s
95th percentile per-packet one-way delay: 152.668 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 571.98 Mbit/s
95th percentile per-packet one-way delay: 152.644 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 153.149 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 169.410 ms
Loss rate: 2.23%

Run 2: Report of PCC-Allegro — Data Link

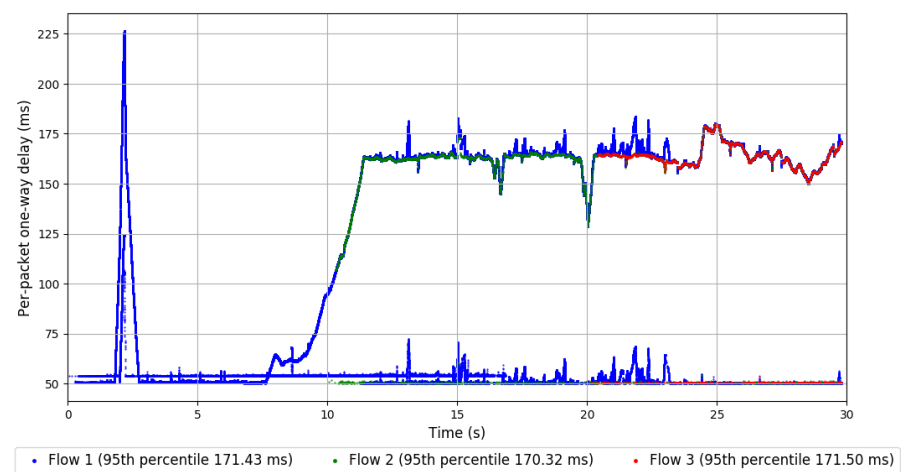
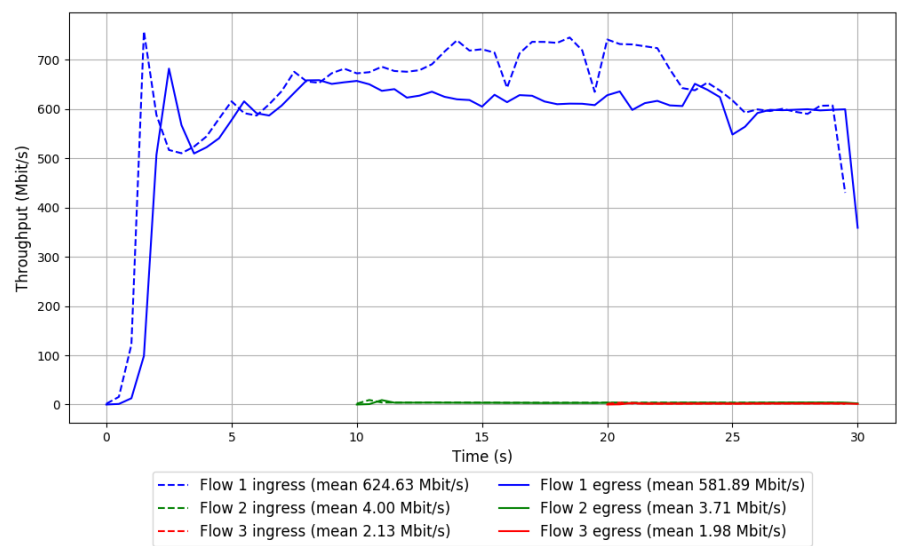


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 17:22:18
End at: 2018-06-07 17:22:48
Local clock offset: -0.327 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-06-07 21:49:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 585.00 Mbit/s
95th percentile per-packet one-way delay: 171.423 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 581.89 Mbit/s
95th percentile per-packet one-way delay: 171.429 ms
Loss rate: 7.16%
-- Flow 2:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 170.321 ms
Loss rate: 7.74%
-- Flow 3:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 171.505 ms
Loss rate: 7.61%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-07 17:45:05

End at: 2018-06-07 17:45:35

Local clock offset: 0.129 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 586.27 Mbit/s

95th percentile per-packet one-way delay: 164.618 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 526.75 Mbit/s

95th percentile per-packet one-way delay: 164.811 ms

Loss rate: 2.48%

-- Flow 2:

Average throughput: 59.19 Mbit/s

95th percentile per-packet one-way delay: 162.797 ms

Loss rate: 2.02%

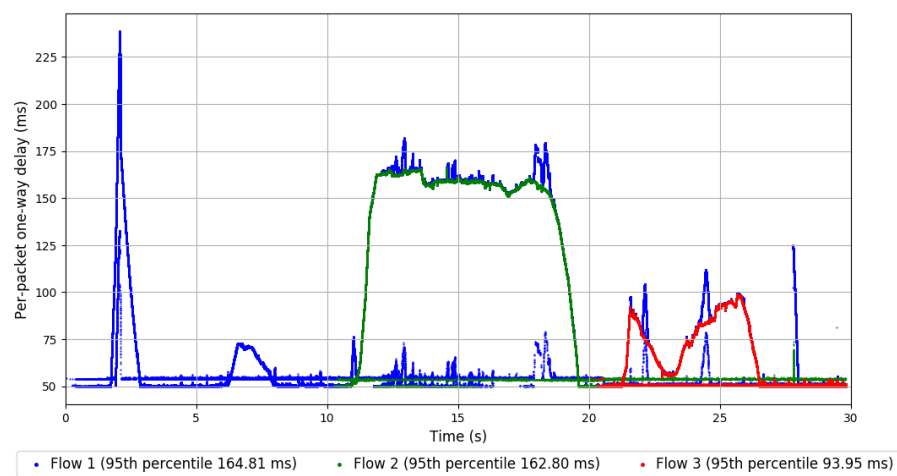
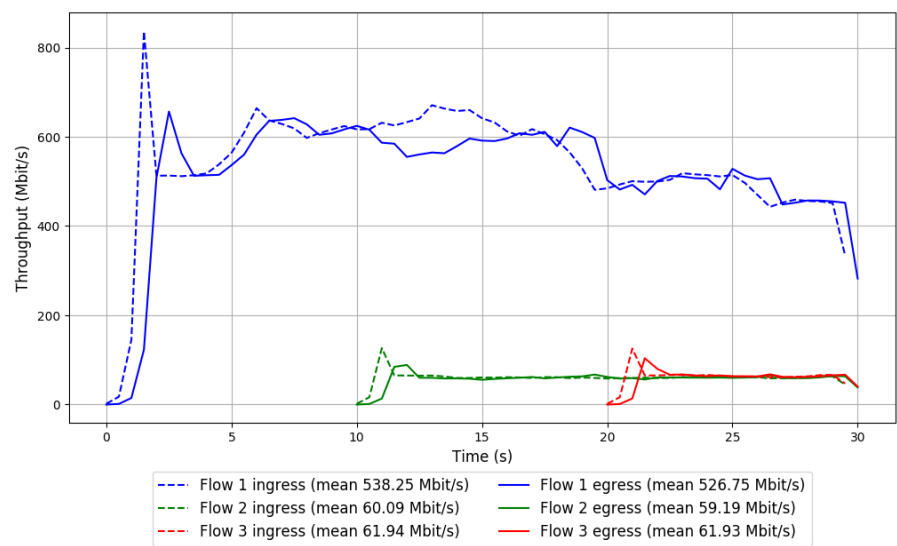
-- Flow 3:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 93.949 ms

Loss rate: 1.08%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 18:08:10

End at: 2018-06-07 18:08:40

Local clock offset: 0.197 ms

Remote clock offset: 0.805 ms

Below is generated by plot.py at 2018-06-07 21:49:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 585.37 Mbit/s

95th percentile per-packet one-way delay: 165.294 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 545.85 Mbit/s

95th percentile per-packet one-way delay: 165.302 ms

Loss rate: 2.51%

-- Flow 2:

Average throughput: 58.48 Mbit/s

95th percentile per-packet one-way delay: 165.215 ms

Loss rate: 2.42%

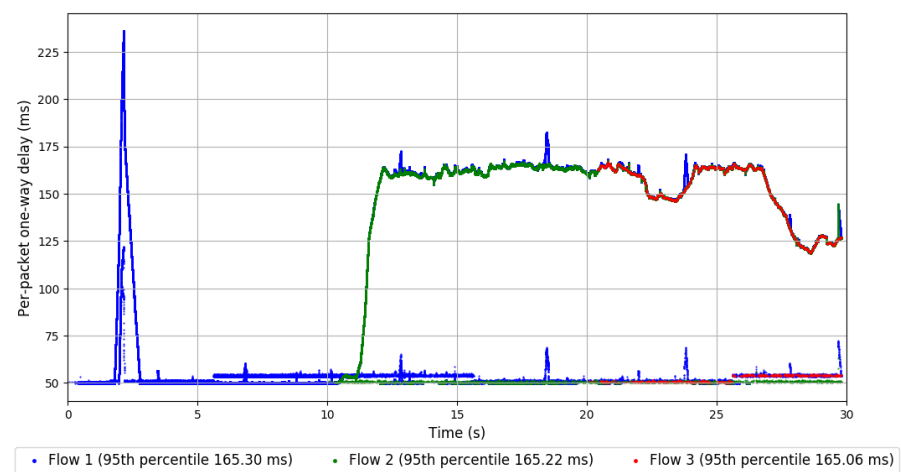
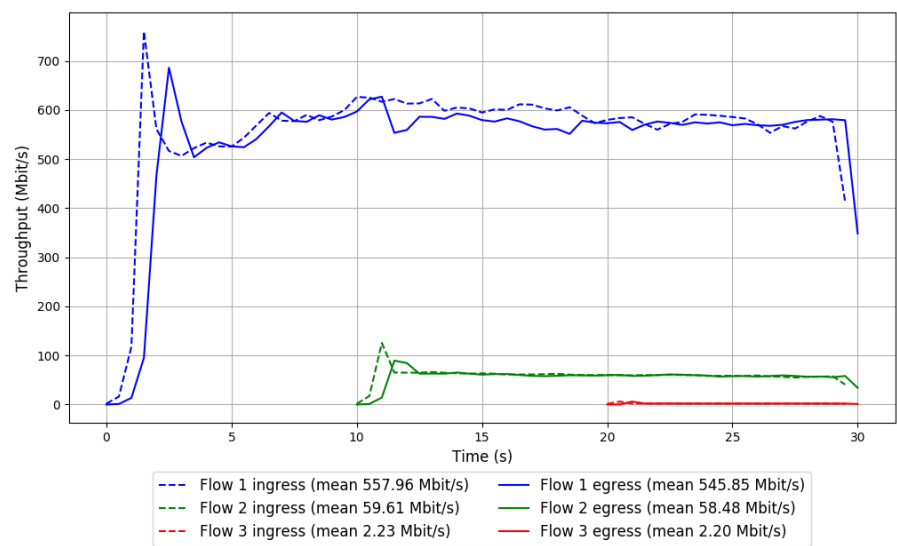
-- Flow 3:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 165.060 ms

Loss rate: 2.71%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-07 18:30:57

End at: 2018-06-07 18:31:27

Local clock offset: -0.491 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-06-07 21:50:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 574.70 Mbit/s

95th percentile per-packet one-way delay: 167.803 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 566.75 Mbit/s

95th percentile per-packet one-way delay: 167.797 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 167.583 ms

Loss rate: 2.52%

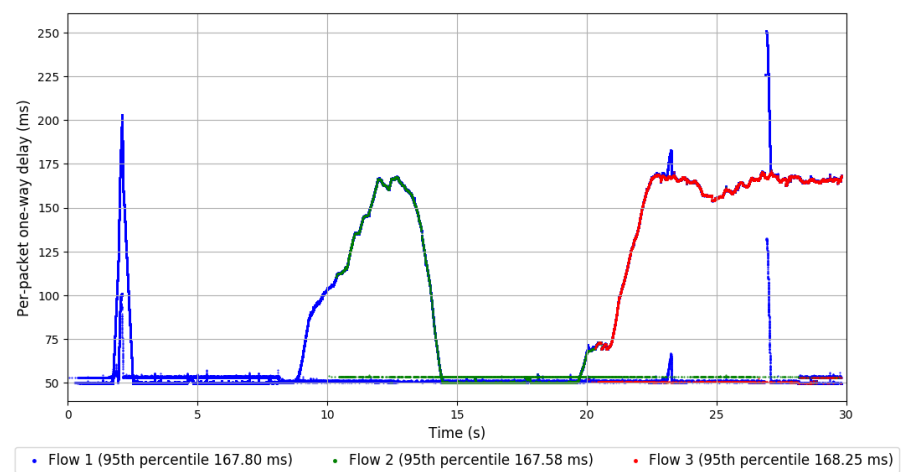
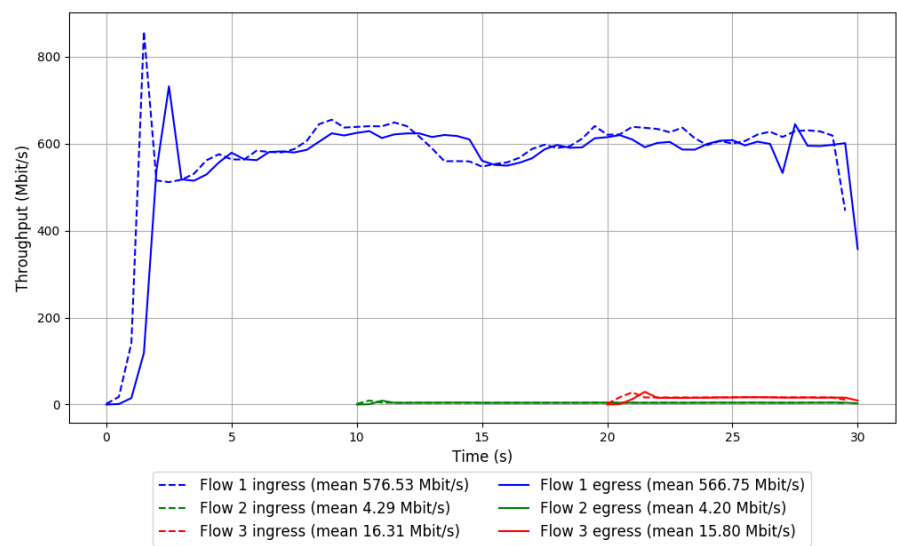
-- Flow 3:

Average throughput: 15.80 Mbit/s

95th percentile per-packet one-way delay: 168.255 ms

Loss rate: 4.19%

Run 6: Report of PCC-Allegro — Data Link

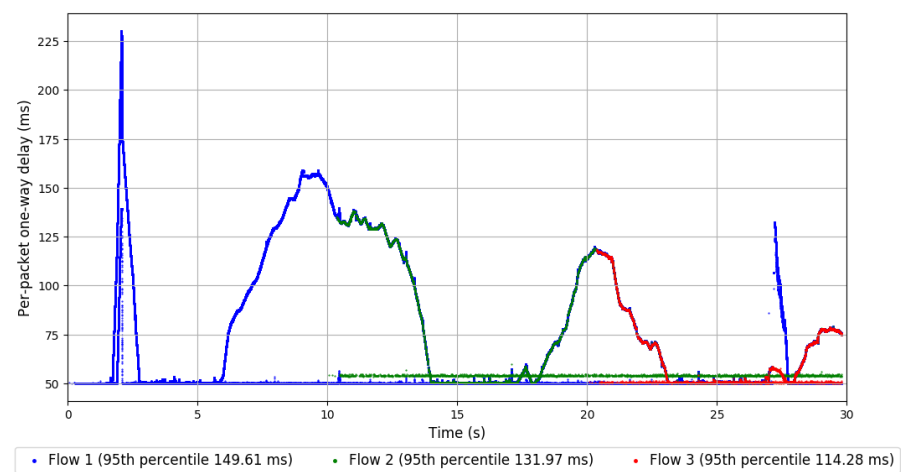
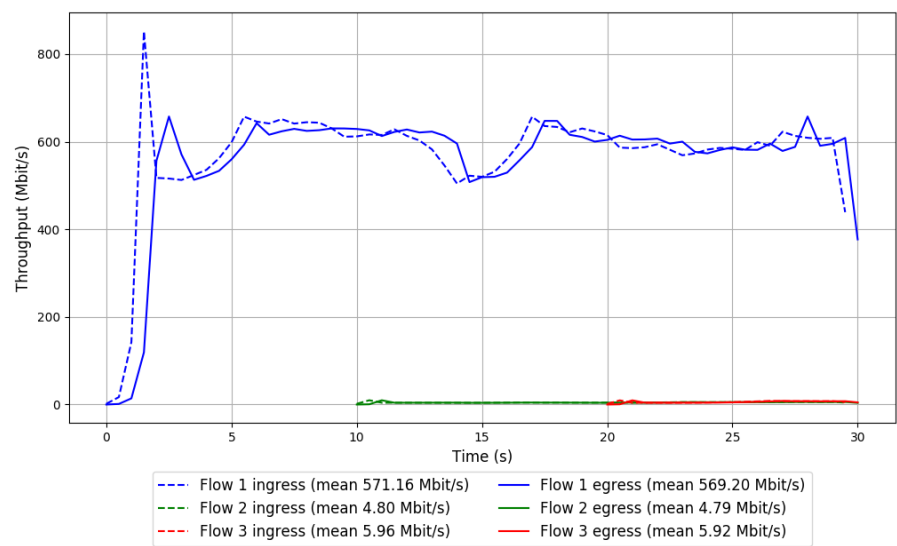


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-07 18:54:03
End at: 2018-06-07 18:54:33
Local clock offset: 0.015 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-06-07 21:56:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 574.31 Mbit/s
95th percentile per-packet one-way delay: 149.368 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 569.20 Mbit/s
95th percentile per-packet one-way delay: 149.608 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 131.969 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 5.92 Mbit/s
95th percentile per-packet one-way delay: 114.275 ms
Loss rate: 1.69%

Run 7: Report of PCC-Allegro — Data Link

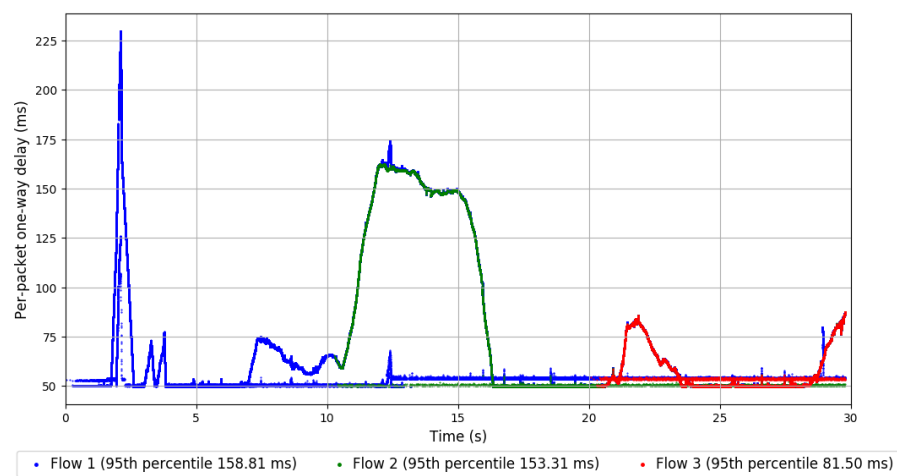
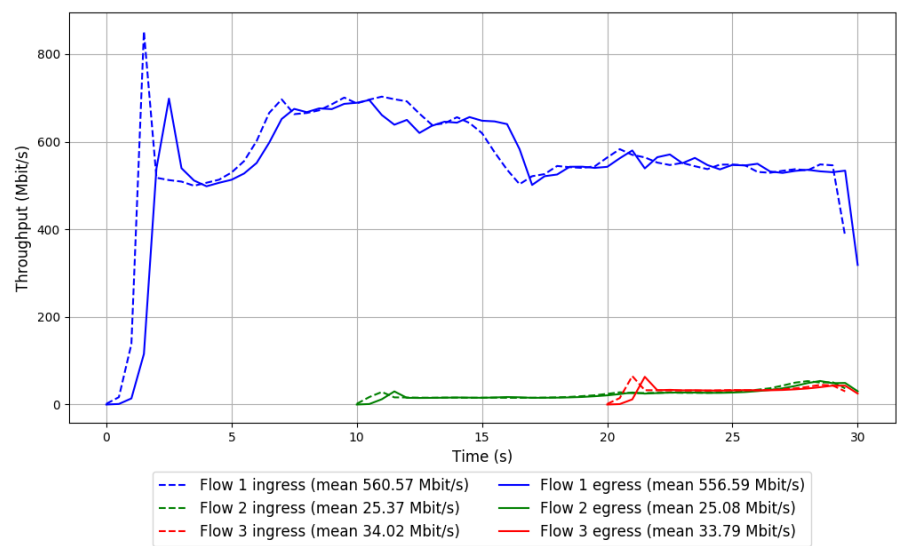


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-07 19:17:13
End at: 2018-06-07 19:17:43
Local clock offset: -0.281 ms
Remote clock offset: -0.405 ms

Below is generated by plot.py at 2018-06-07 21:56:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 584.28 Mbit/s
95th percentile per-packet one-way delay: 158.596 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 556.59 Mbit/s
95th percentile per-packet one-way delay: 158.809 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 153.310 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 81.497 ms
Loss rate: 1.76%

Run 8: Report of PCC-Allegro — Data Link

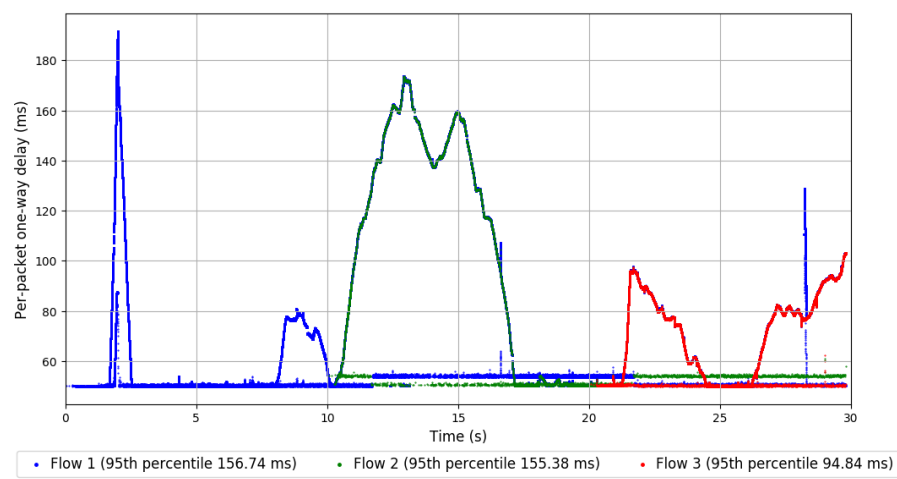
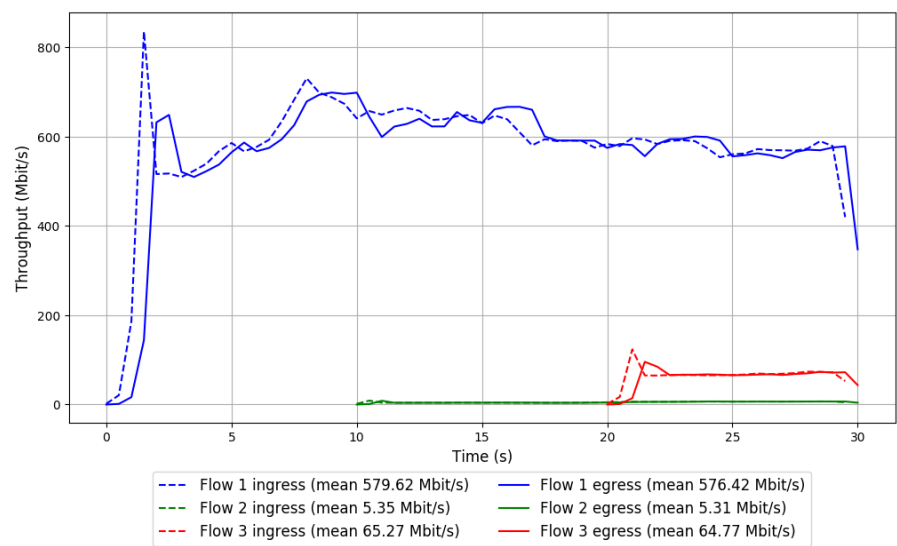


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-07 19:39:33
End at: 2018-06-07 19:40:03
Local clock offset: -0.085 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2018-06-07 21:57:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 601.08 Mbit/s
95th percentile per-packet one-way delay: 156.539 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 576.42 Mbit/s
95th percentile per-packet one-way delay: 156.737 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 155.376 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 64.77 Mbit/s
95th percentile per-packet one-way delay: 94.839 ms
Loss rate: 1.78%

Run 9: Report of PCC-Allegro — Data Link

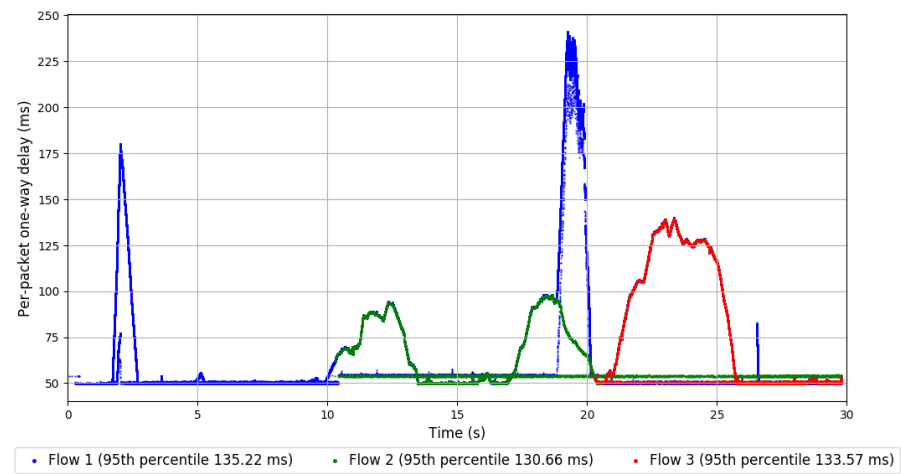
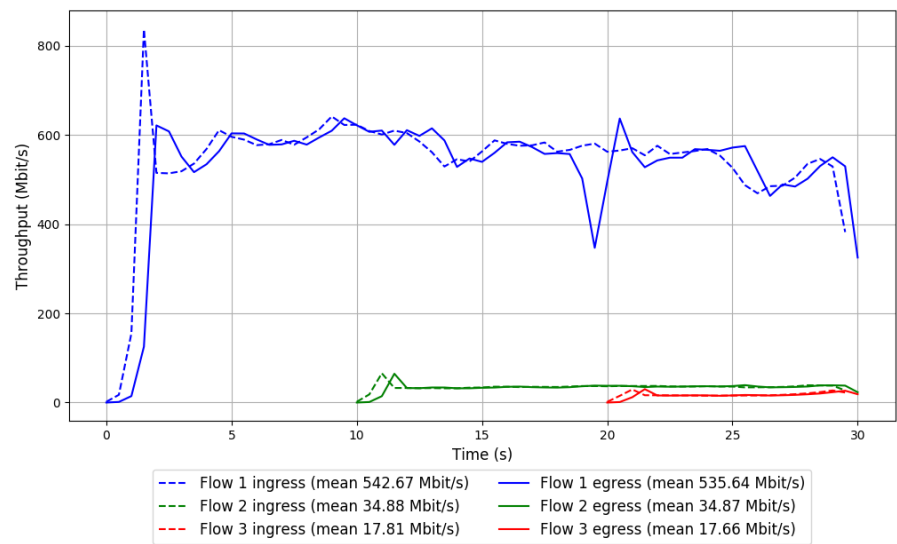


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 20:02:05
End at: 2018-06-07 20:02:35
Local clock offset: -0.113 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-07 21:57:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 564.55 Mbit/s
95th percentile per-packet one-way delay: 134.790 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 535.64 Mbit/s
95th percentile per-packet one-way delay: 135.220 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 130.657 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 133.569 ms
Loss rate: 1.94%

Run 10: Report of PCC-Allegro — Data Link

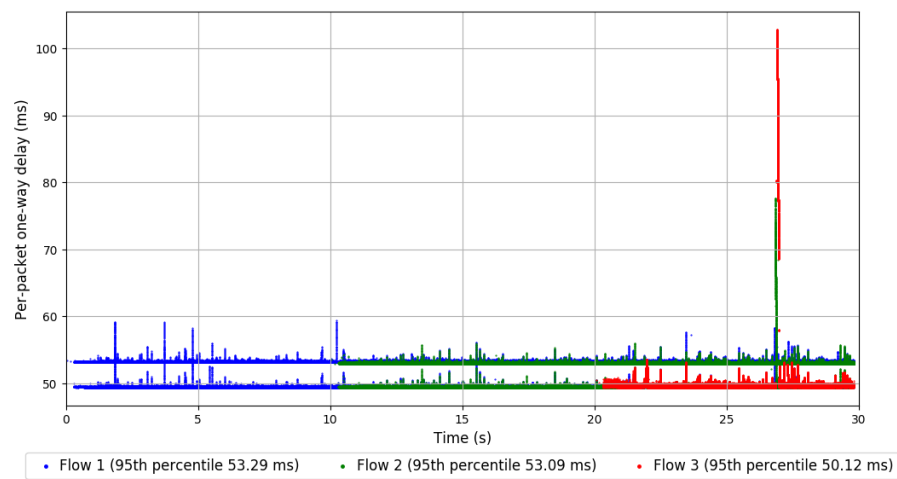
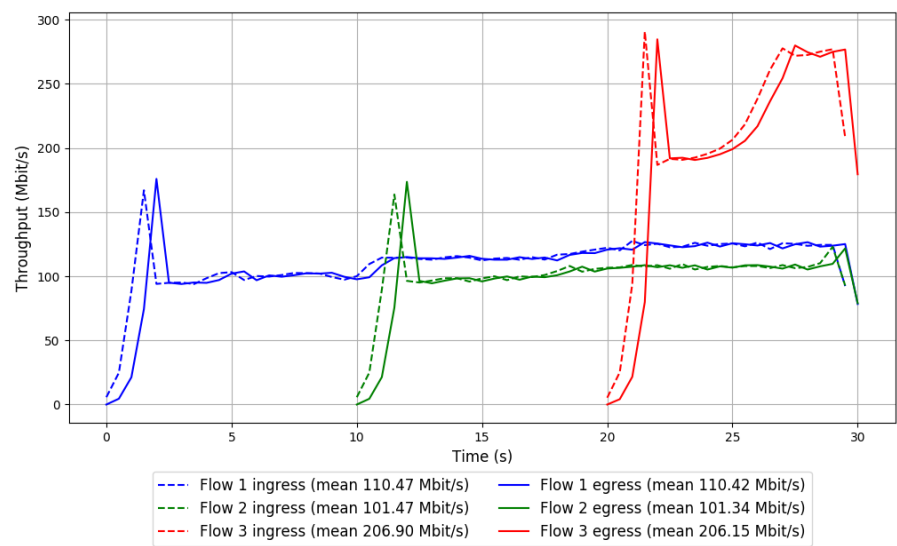


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 16:43:30
End at: 2018-06-07 16:44:00
Local clock offset: -0.29 ms
Remote clock offset: -0.521 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.23 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 110.42 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 101.34 Mbit/s
95th percentile per-packet one-way delay: 53.088 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 206.15 Mbit/s
95th percentile per-packet one-way delay: 50.125 ms
Loss rate: 1.38%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 17:05:48

End at: 2018-06-07 17:06:18

Local clock offset: -0.002 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-06-07 21:57:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.56 Mbit/s

95th percentile per-packet one-way delay: 205.037 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 206.12 Mbit/s

95th percentile per-packet one-way delay: 211.929 ms

Loss rate: 3.74%

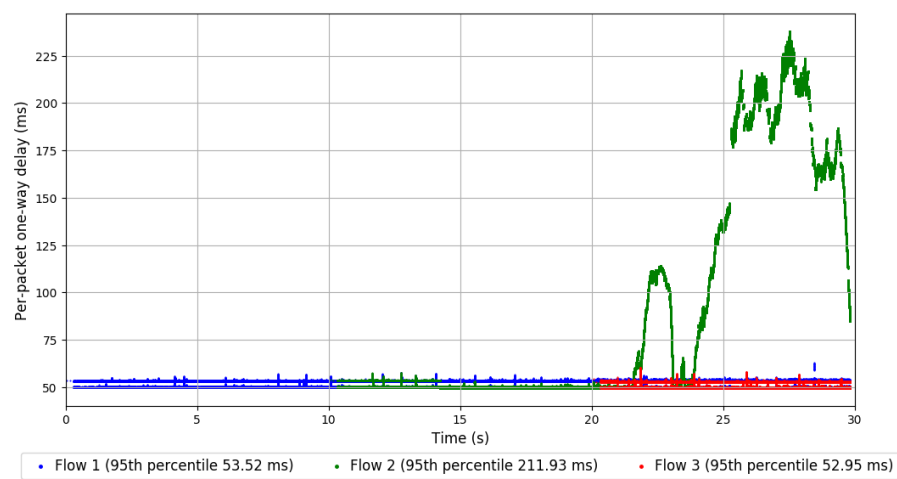
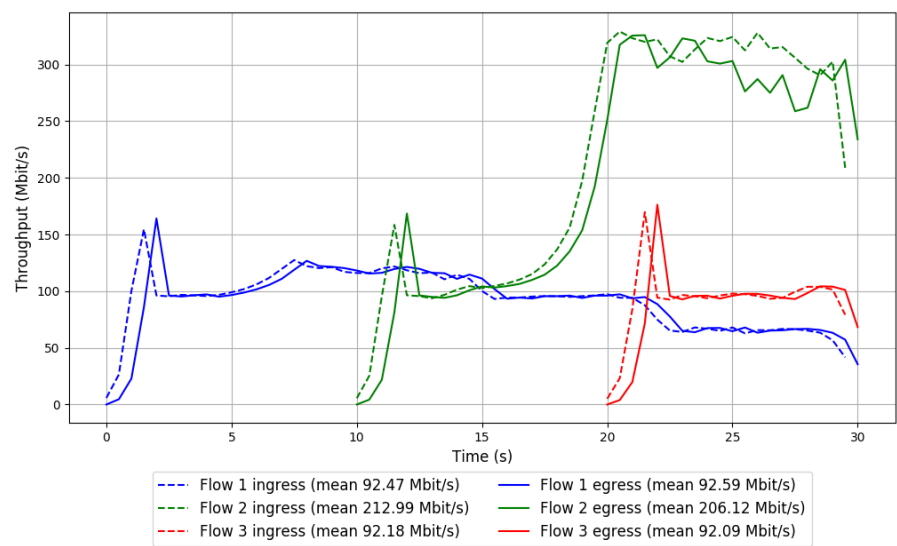
-- Flow 3:

Average throughput: 92.09 Mbit/s

95th percentile per-packet one-way delay: 52.955 ms

Loss rate: 1.16%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-07 17:28:44

End at: 2018-06-07 17:29:14

Local clock offset: -0.164 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-06-07 22:03:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 432.90 Mbit/s

95th percentile per-packet one-way delay: 217.237 ms

Loss rate: 4.99%

-- Flow 1:

Average throughput: 330.46 Mbit/s

95th percentile per-packet one-way delay: 219.777 ms

Loss rate: 5.45%

-- Flow 2:

Average throughput: 104.77 Mbit/s

95th percentile per-packet one-way delay: 136.860 ms

Loss rate: 2.55%

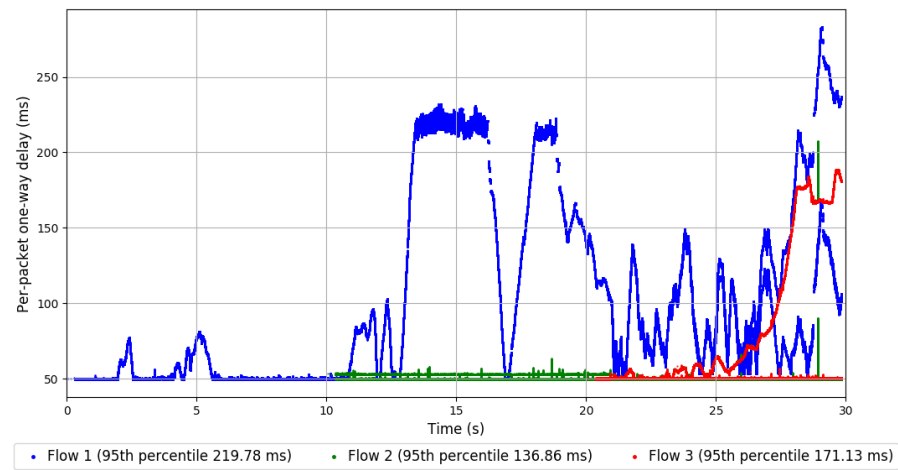
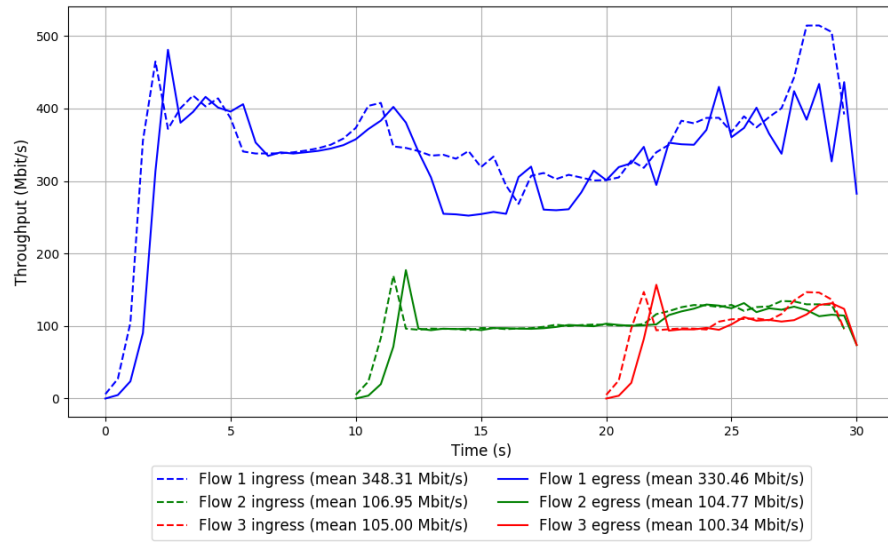
-- Flow 3:

Average throughput: 100.34 Mbit/s

95th percentile per-packet one-way delay: 171.131 ms

Loss rate: 5.42%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 17:51:38

End at: 2018-06-07 17:52:08

Local clock offset: 0.373 ms

Remote clock offset: 0.505 ms

Below is generated by plot.py at 2018-06-07 22:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 509.92 Mbit/s

95th percentile per-packet one-way delay: 180.668 ms

Loss rate: 7.63%

-- Flow 1:

Average throughput: 350.94 Mbit/s

95th percentile per-packet one-way delay: 184.617 ms

Loss rate: 7.01%

-- Flow 2:

Average throughput: 225.33 Mbit/s

95th percentile per-packet one-way delay: 176.791 ms

Loss rate: 9.00%

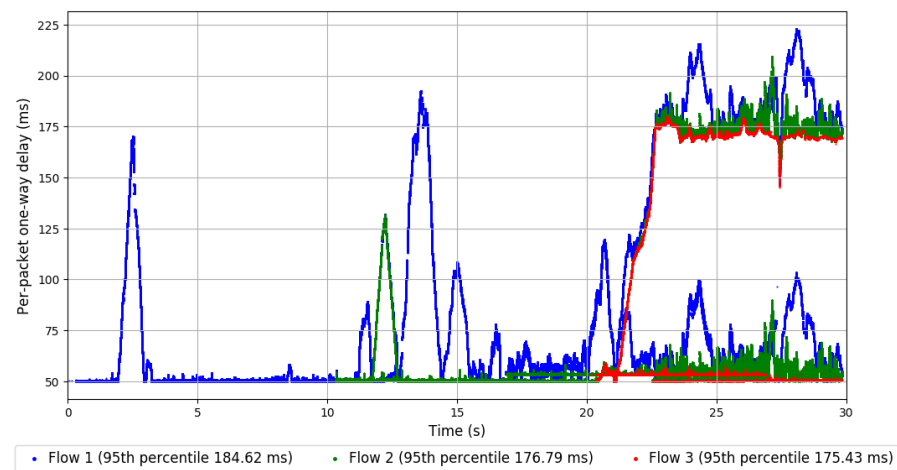
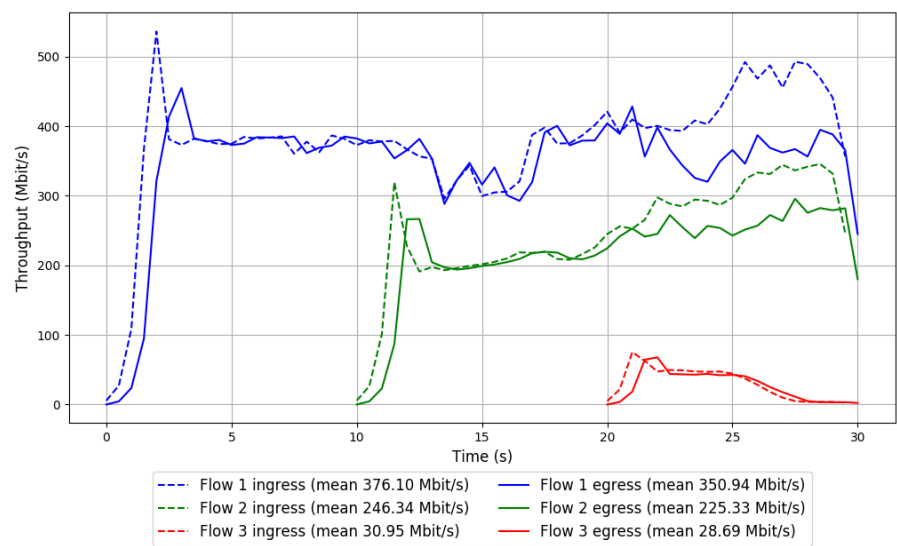
-- Flow 3:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 175.430 ms

Loss rate: 8.30%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 18:14:32

End at: 2018-06-07 18:15:02

Local clock offset: -0.385 ms

Remote clock offset: 0.553 ms

Below is generated by plot.py at 2018-06-07 22:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.98 Mbit/s

95th percentile per-packet one-way delay: 175.177 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 149.60 Mbit/s

95th percentile per-packet one-way delay: 174.924 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 192.33 Mbit/s

95th percentile per-packet one-way delay: 175.731 ms

Loss rate: 2.17%

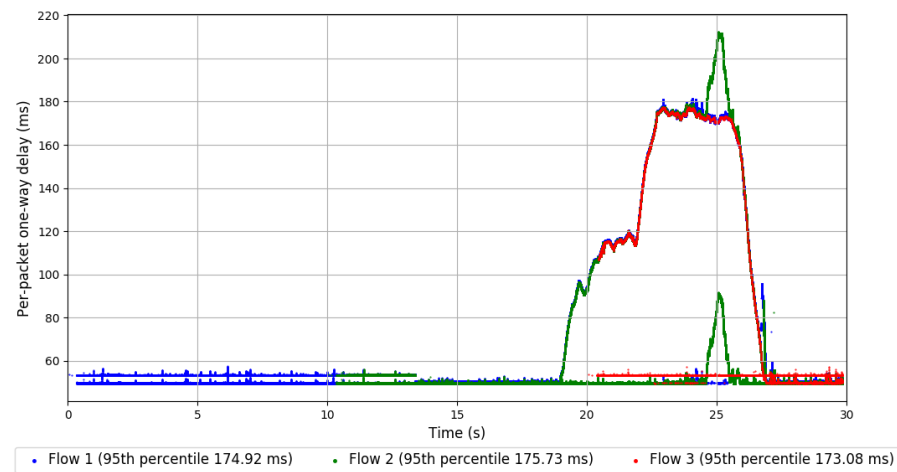
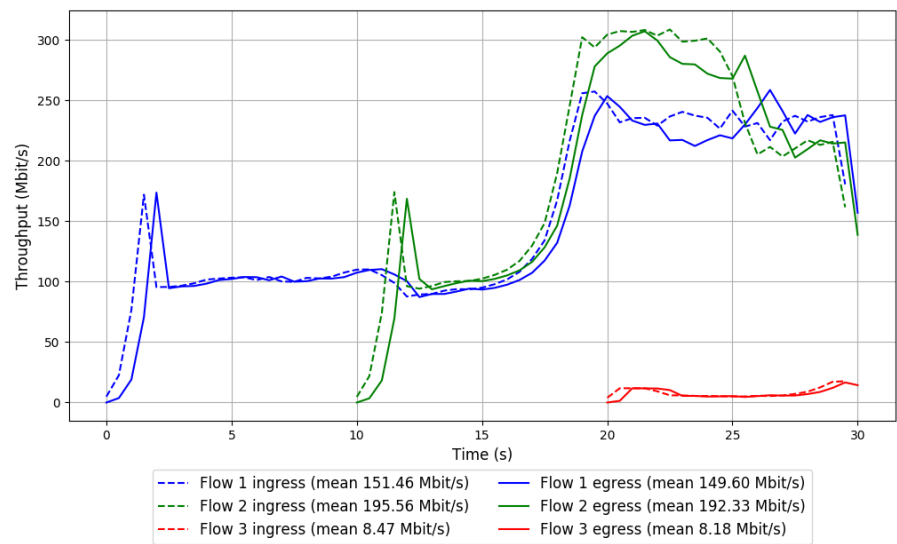
-- Flow 3:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 173.076 ms

Loss rate: 4.42%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-07 18:37:24

End at: 2018-06-07 18:37:54

Local clock offset: 0.188 ms

Remote clock offset: 0.456 ms

Below is generated by plot.py at 2018-06-07 22:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.23 Mbit/s

95th percentile per-packet one-way delay: 172.335 ms

Loss rate: 3.22%

-- Flow 1:

Average throughput: 178.46 Mbit/s

95th percentile per-packet one-way delay: 172.212 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 118.71 Mbit/s

95th percentile per-packet one-way delay: 171.963 ms

Loss rate: 2.97%

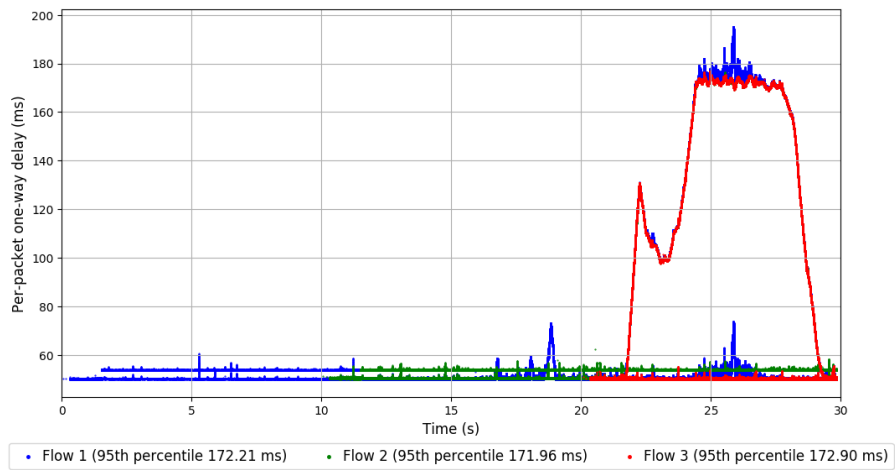
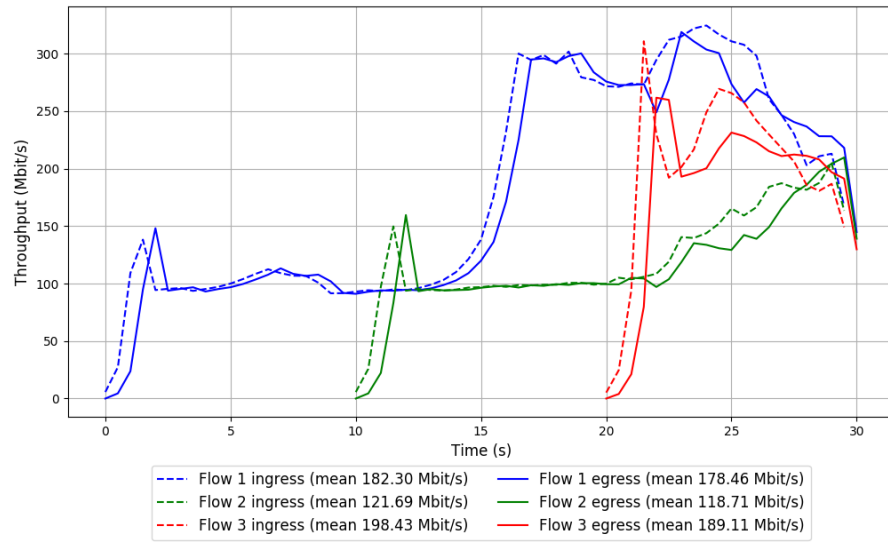
-- Flow 3:

Average throughput: 189.11 Mbit/s

95th percentile per-packet one-way delay: 172.902 ms

Loss rate: 5.70%

Run 6: Report of PCC-Expr — Data Link

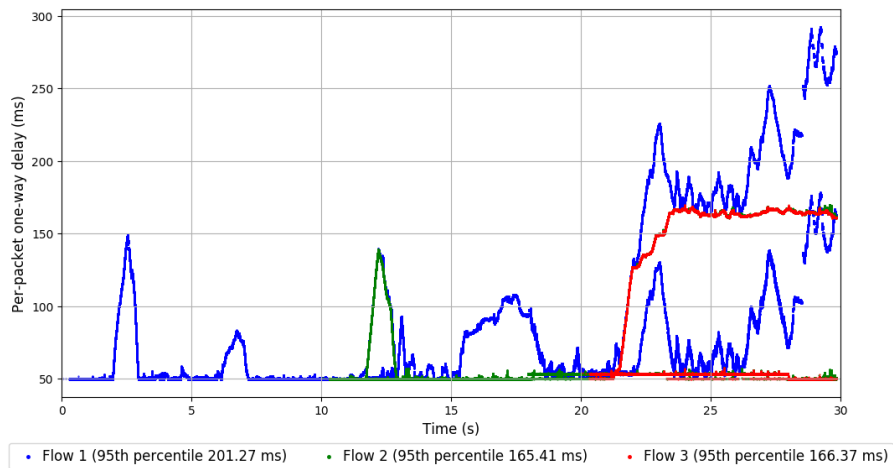
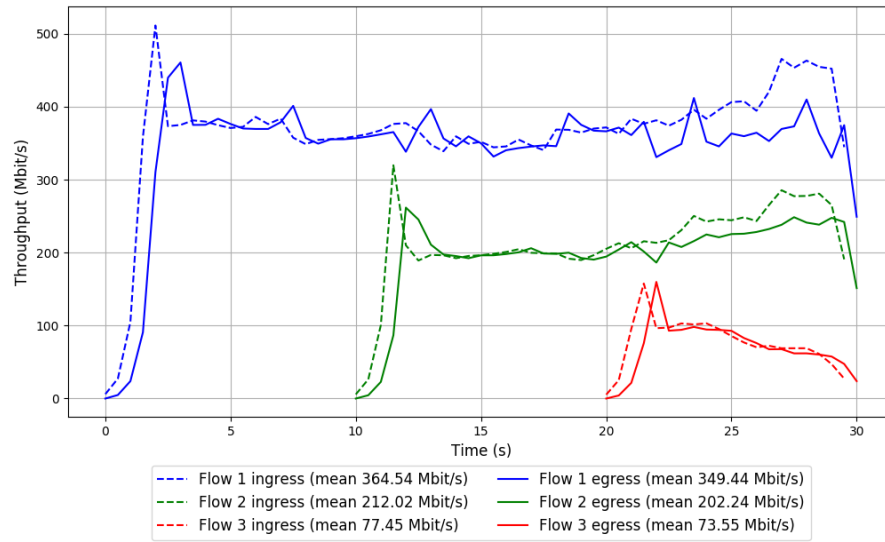


Run 7: Statistics of PCC-Expr

Start at: 2018-06-07 19:00:37
End at: 2018-06-07 19:01:07
Local clock offset: -0.17 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-06-07 22:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 507.82 Mbit/s
95th percentile per-packet one-way delay: 183.762 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 349.44 Mbit/s
95th percentile per-packet one-way delay: 201.267 ms
Loss rate: 4.47%
-- Flow 2:
Average throughput: 202.24 Mbit/s
95th percentile per-packet one-way delay: 165.412 ms
Loss rate: 5.10%
-- Flow 3:
Average throughput: 73.55 Mbit/s
95th percentile per-packet one-way delay: 166.371 ms
Loss rate: 6.05%

Run 7: Report of PCC-Expr — Data Link

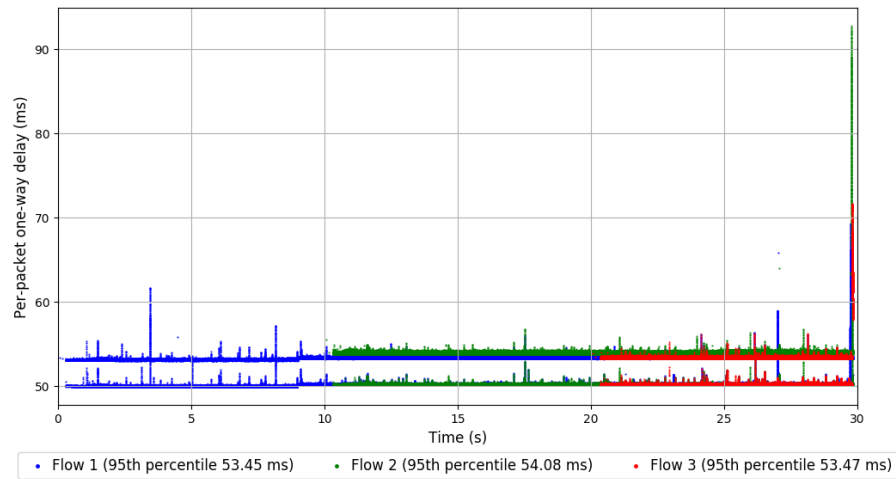
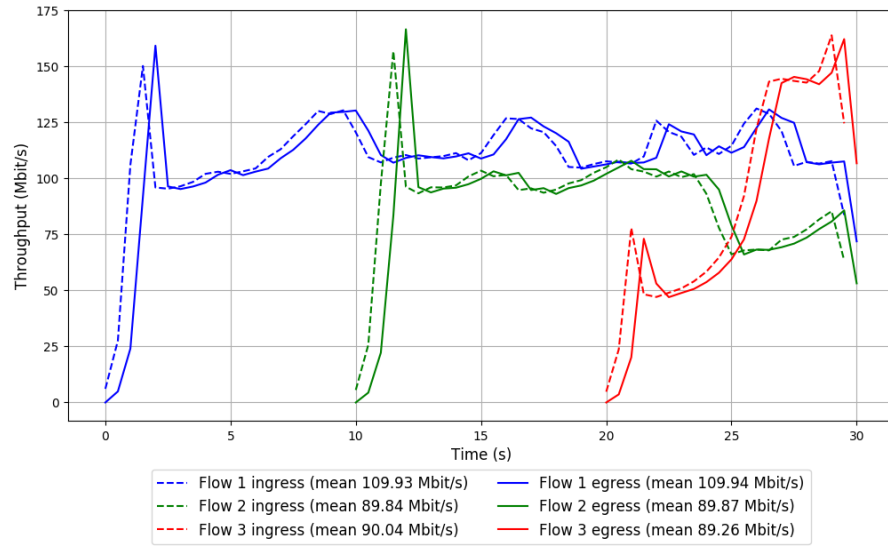


Run 8: Statistics of PCC-Expr

Start at: 2018-06-07 19:23:36
End at: 2018-06-07 19:24:06
Local clock offset: -0.009 ms
Remote clock offset: -0.341 ms

Below is generated by plot.py at 2018-06-07 22:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 198.87 Mbit/s
95th percentile per-packet one-way delay: 53.983 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 109.94 Mbit/s
95th percentile per-packet one-way delay: 53.454 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 54.083 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 53.473 ms
Loss rate: 1.95%

Run 8: Report of PCC-Expr — Data Link

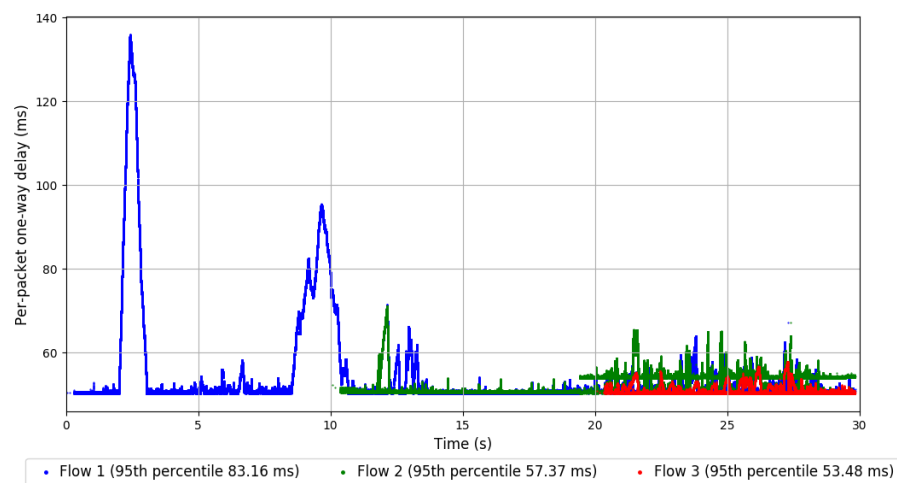
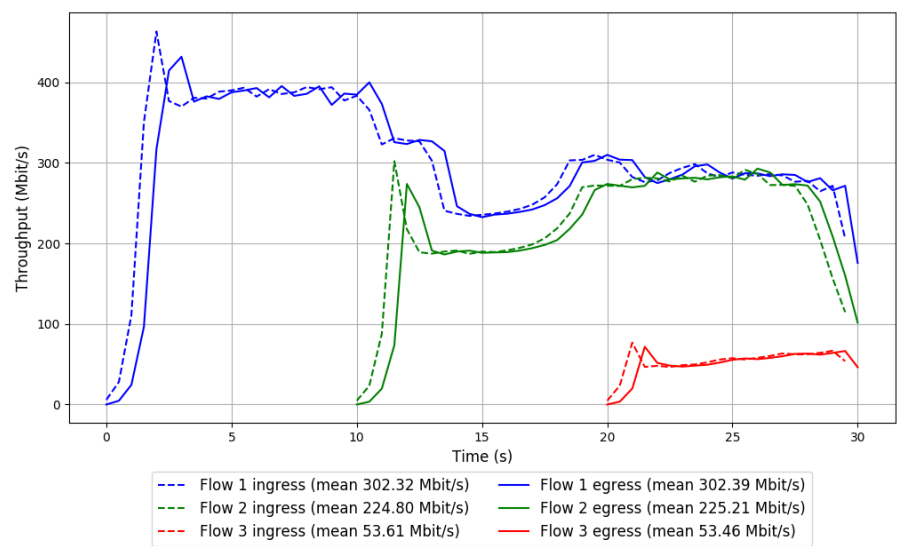


Run 9: Statistics of PCC-Expr

Start at: 2018-06-07 19:45:46
End at: 2018-06-07 19:46:16
Local clock offset: 0.053 ms
Remote clock offset: -0.535 ms

Below is generated by plot.py at 2018-06-07 22:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 469.41 Mbit/s
95th percentile per-packet one-way delay: 74.049 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 302.39 Mbit/s
95th percentile per-packet one-way delay: 83.156 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 225.21 Mbit/s
95th percentile per-packet one-way delay: 57.367 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 53.46 Mbit/s
95th percentile per-packet one-way delay: 53.477 ms
Loss rate: 1.36%

Run 9: Report of PCC-Expr — Data Link

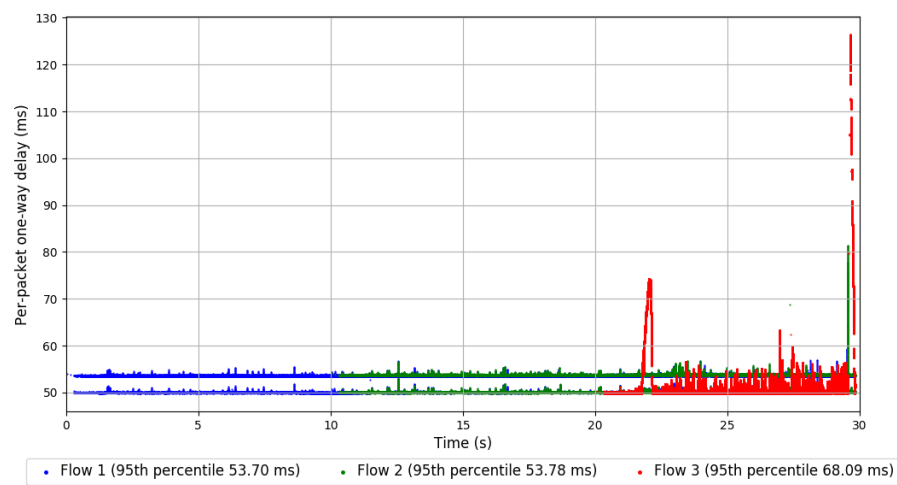
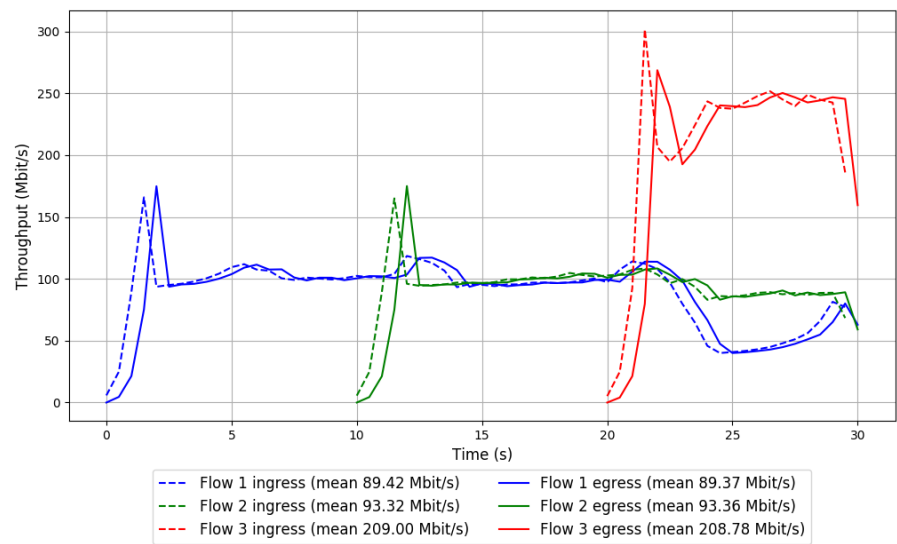


Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 20:08:37
End at: 2018-06-07 20:09:07
Local clock offset: -0.11 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-07 22:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 219.78 Mbit/s
95th percentile per-packet one-way delay: 53.968 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 53.781 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 208.78 Mbit/s
95th percentile per-packet one-way delay: 68.087 ms
Loss rate: 1.18%

Run 10: Report of PCC-Expr — Data Link

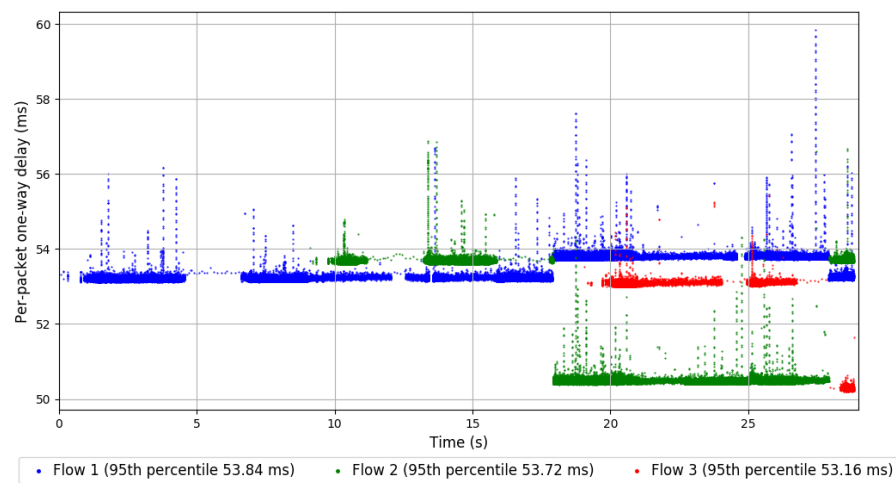
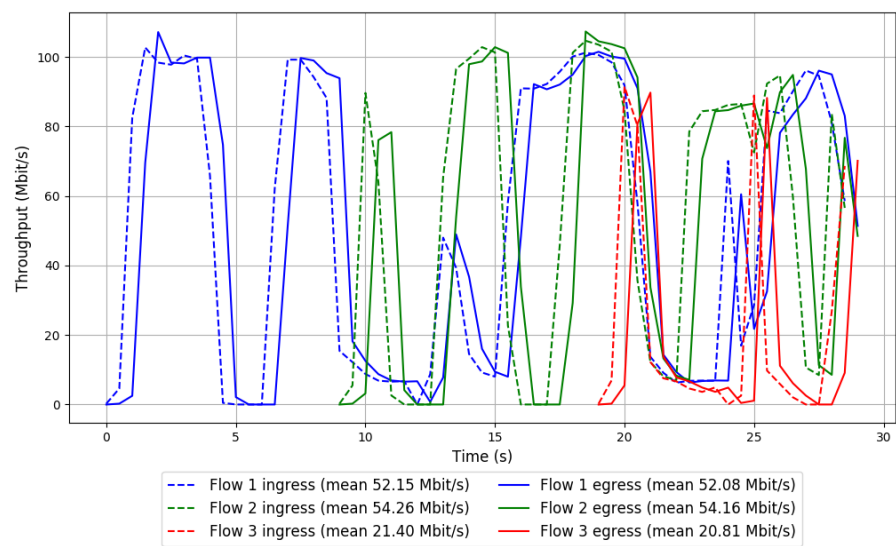


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 16:51:44
End at: 2018-06-07 16:52:14
Local clock offset: -0.036 ms
Remote clock offset: -0.841 ms

Below is generated by plot.py at 2018-06-07 22:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 52.08 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 53.159 ms
Loss rate: 3.83%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 17:14:07

End at: 2018-06-07 17:14:37

Local clock offset: -0.13 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.74 Mbit/s

95th percentile per-packet one-way delay: 53.421 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 60.37 Mbit/s

95th percentile per-packet one-way delay: 50.002 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 47.26 Mbit/s

95th percentile per-packet one-way delay: 52.951 ms

Loss rate: 0.95%

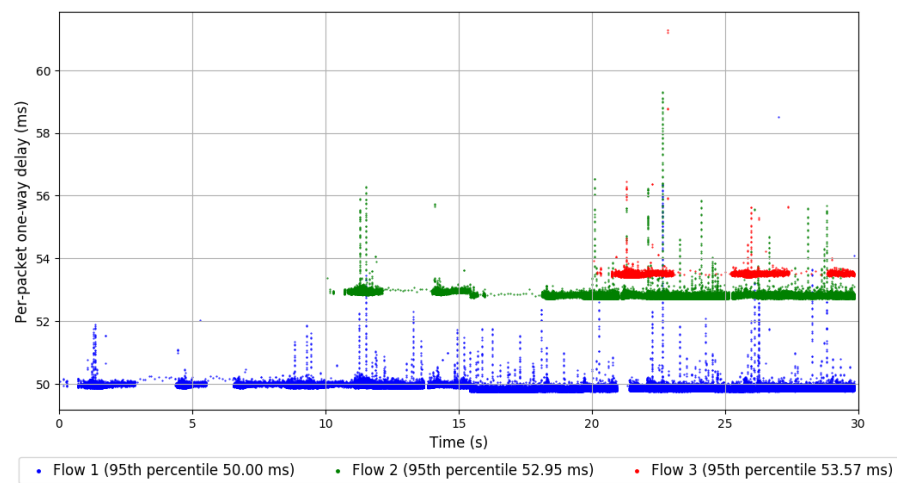
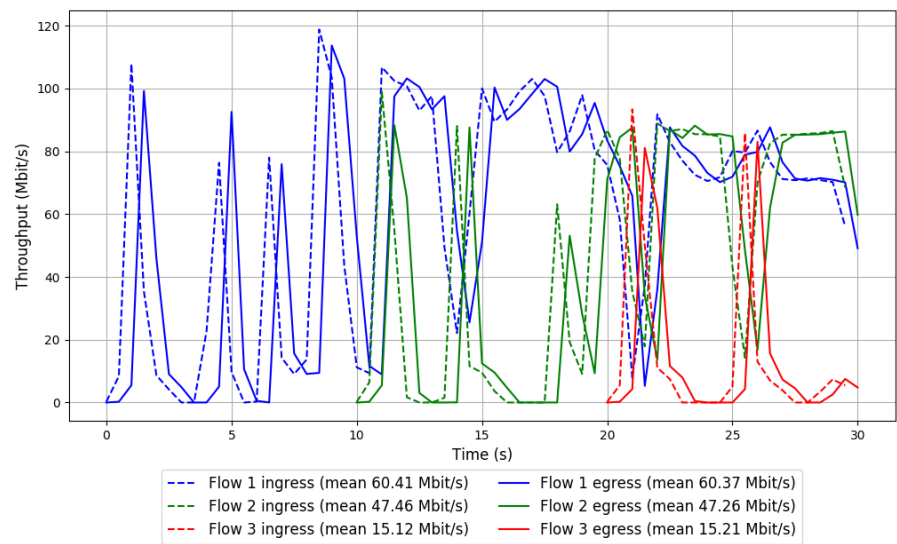
-- Flow 3:

Average throughput: 15.21 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 0.48%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-07 17:37:14

End at: 2018-06-07 17:37:44

Local clock offset: -0.128 ms

Remote clock offset: 0.652 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.49 Mbit/s

95th percentile per-packet one-way delay: 53.131 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 46.44 Mbit/s

95th percentile per-packet one-way delay: 50.047 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 39.61 Mbit/s

95th percentile per-packet one-way delay: 53.181 ms

Loss rate: 0.36%

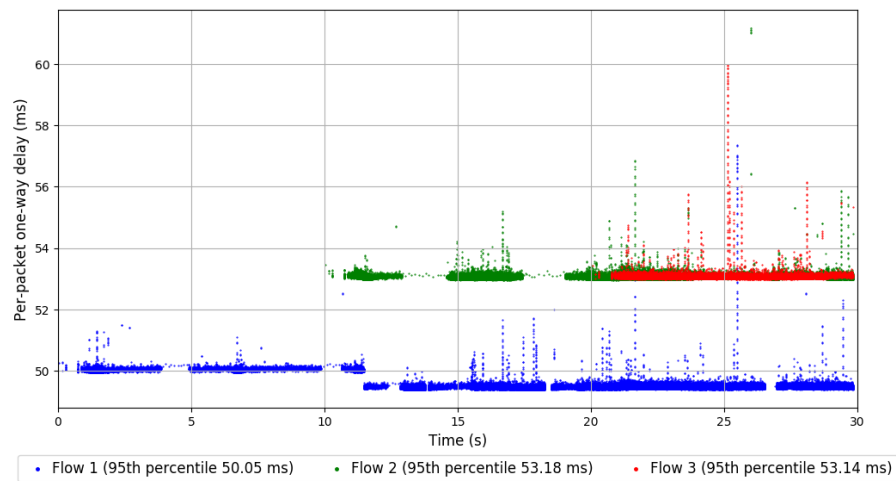
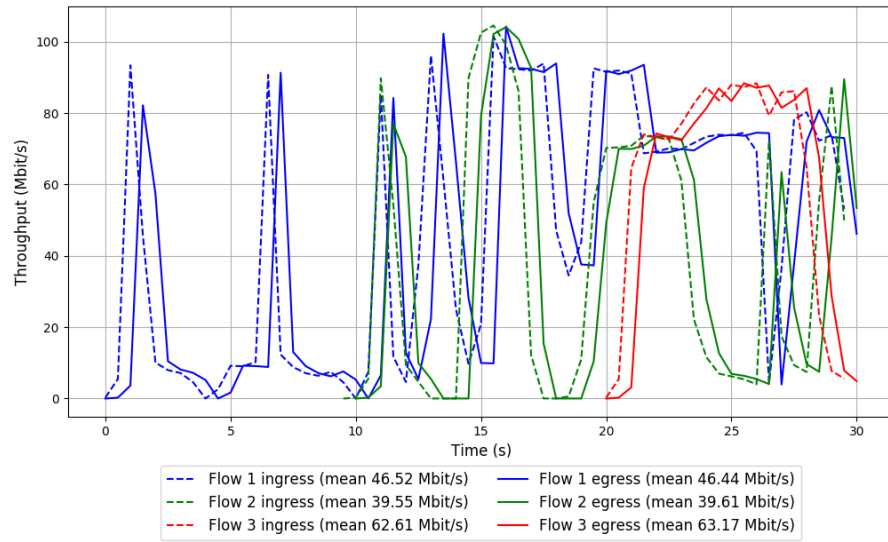
-- Flow 3:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 53.141 ms

Loss rate: 0.12%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-07 18:00:14

End at: 2018-06-07 18:00:44

Local clock offset: 0.205 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 53.978 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 53.941 ms

Loss rate: 0.92%

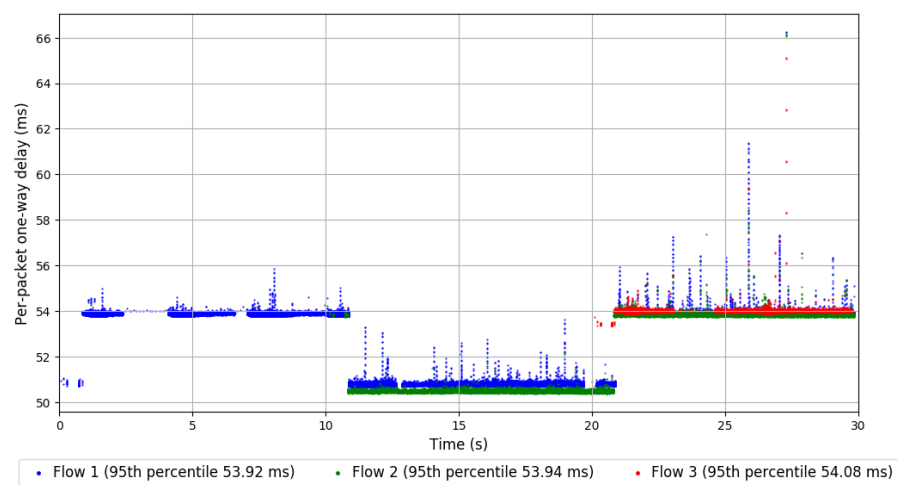
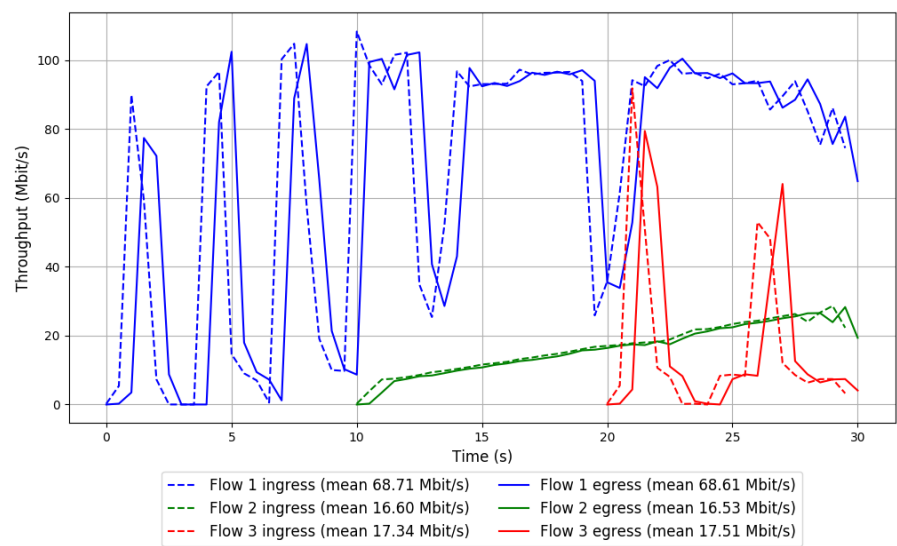
-- Flow 3:

Average throughput: 17.51 Mbit/s

95th percentile per-packet one-way delay: 54.076 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-07 18:22:51

End at: 2018-06-07 18:23:21

Local clock offset: -0.2 ms

Remote clock offset: 0.485 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.56 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 53.633 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 53.639 ms

Loss rate: 0.93%

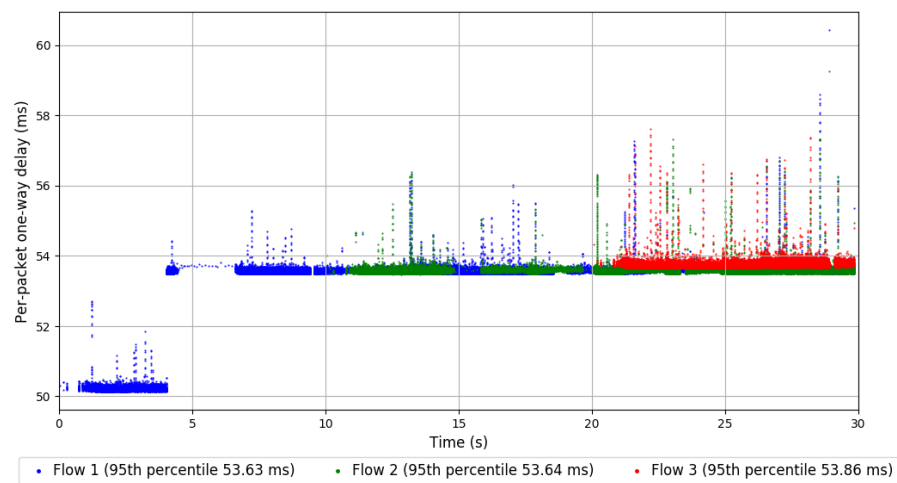
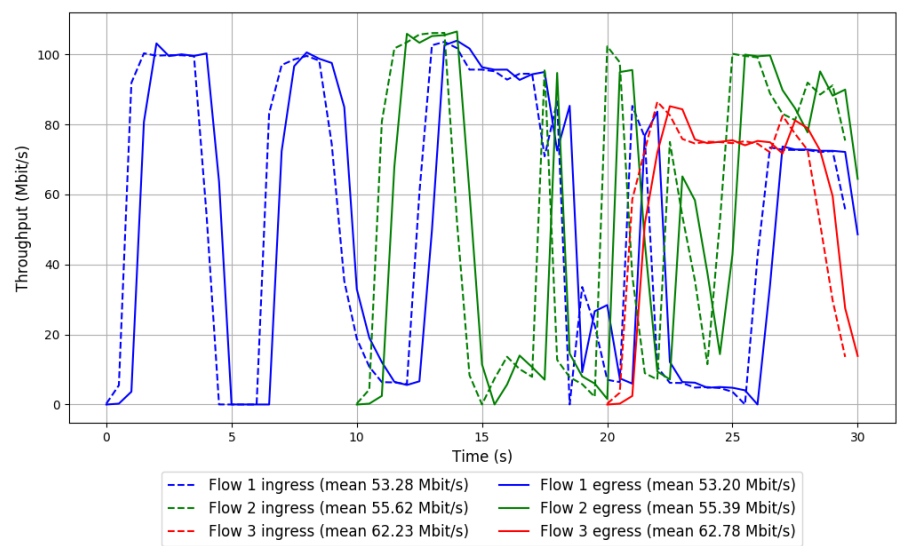
-- Flow 3:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 53.863 ms

Loss rate: 0.16%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-07 18:45:46

End at: 2018-06-07 18:46:16

Local clock offset: -0.219 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 53.316 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 53.126 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 49.952 ms

Loss rate: 0.82%

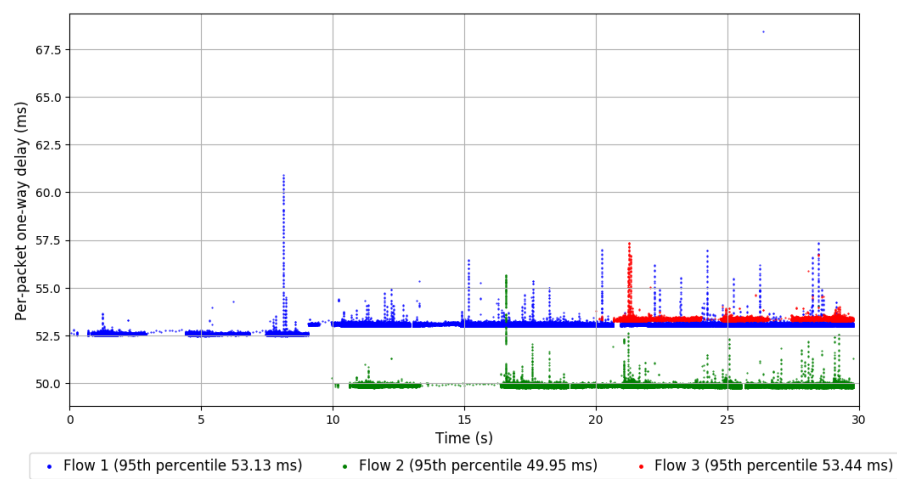
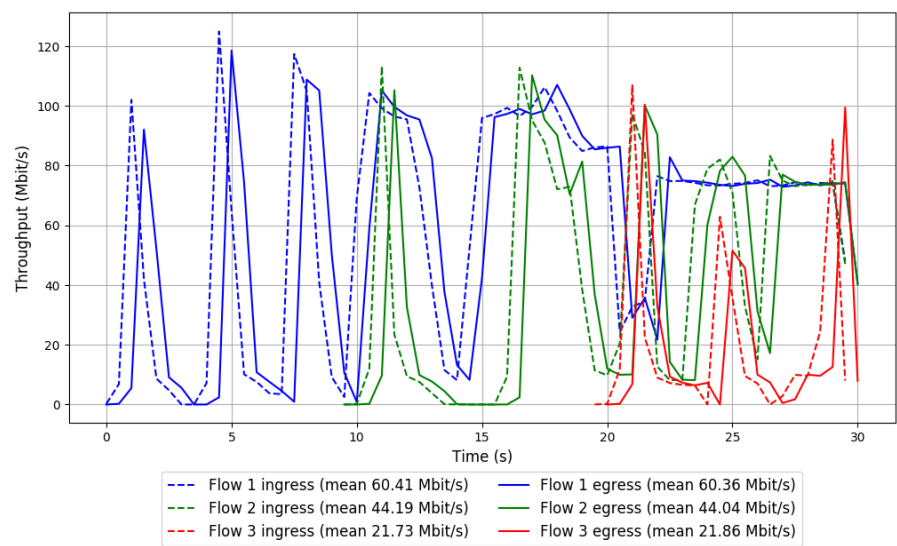
-- Flow 3:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.51%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 19:09:15

End at: 2018-06-07 19:09:45

Local clock offset: 0.221 ms

Remote clock offset: -0.27 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 53.343 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 53.393 ms

Loss rate: 1.11%

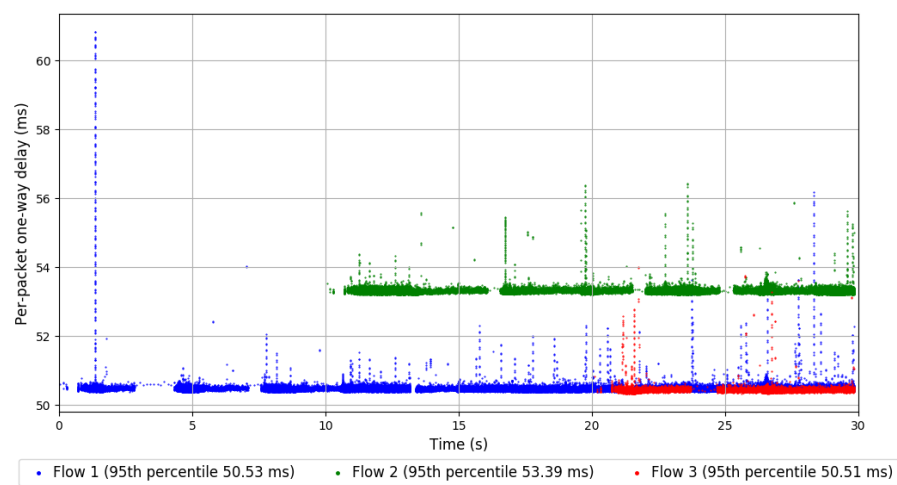
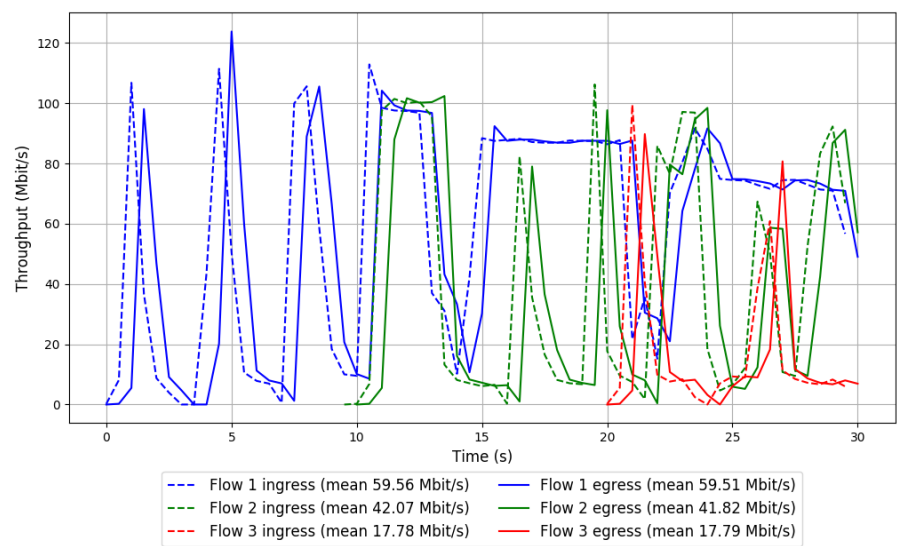
-- Flow 3:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.03%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 19:31:54

End at: 2018-06-07 19:32:24

Local clock offset: -0.12 ms

Remote clock offset: -0.85 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 58.08 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.83%

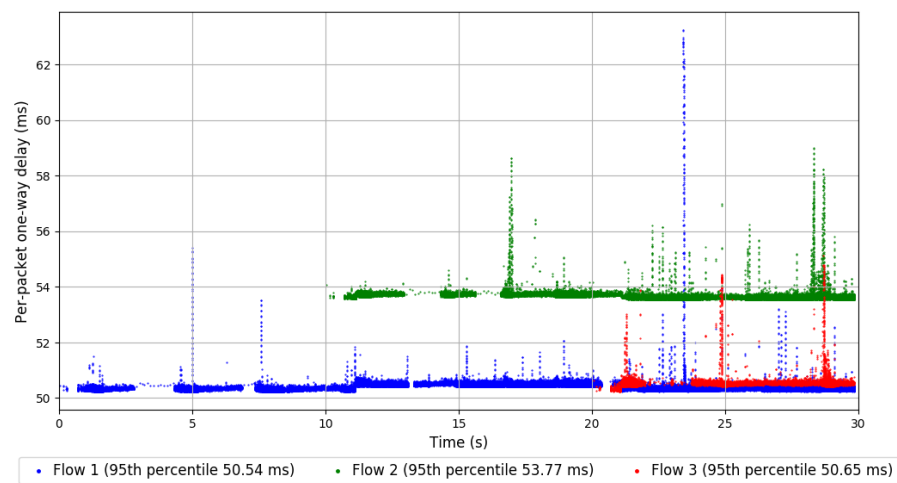
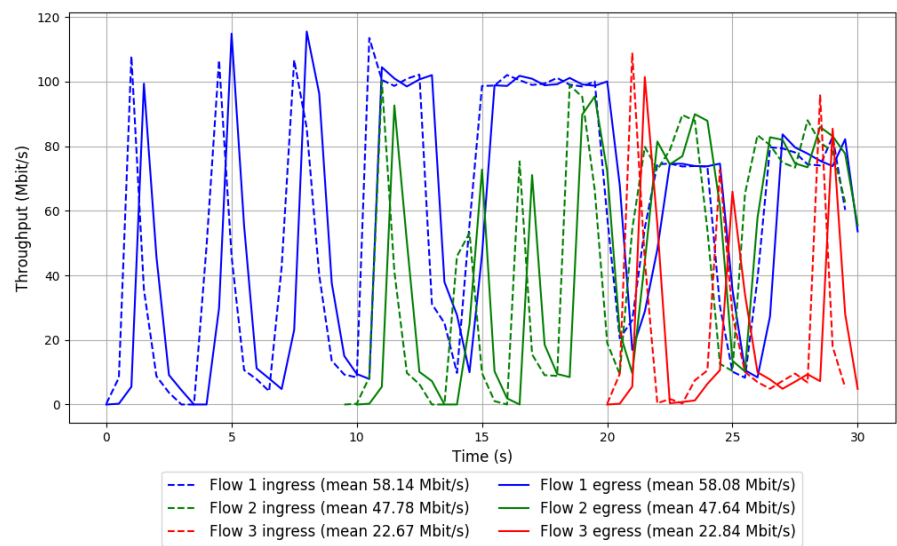
-- Flow 3:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.28%

Run 8: Report of QUIC Cubic — Data Link

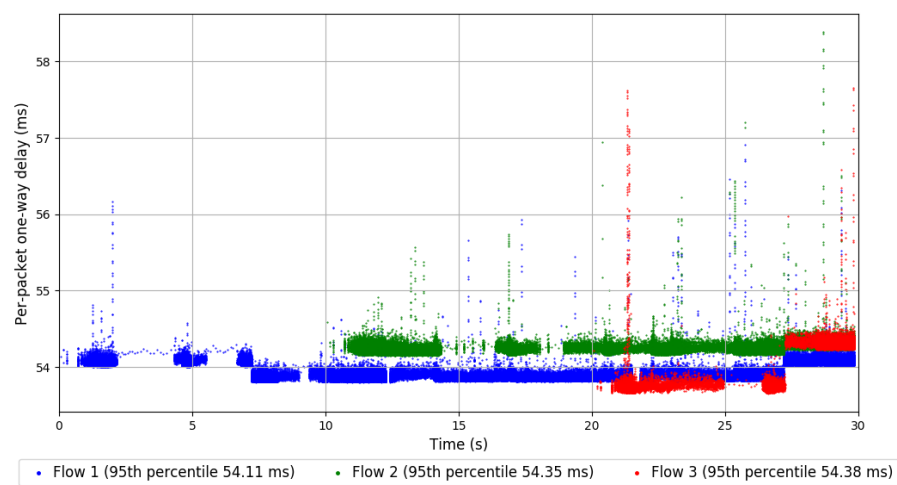
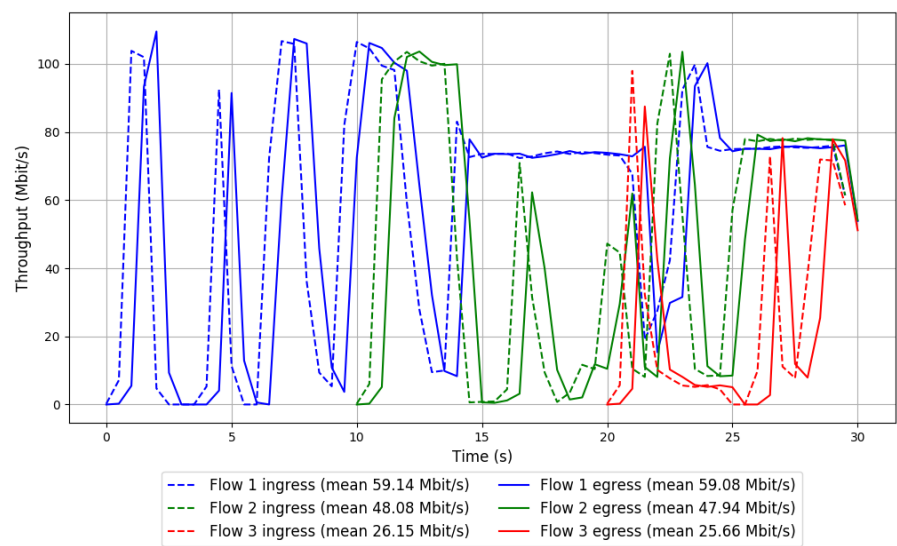


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 19:54:18
End at: 2018-06-07 19:54:48
Local clock offset: 0.03 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2018-06-07 22:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.34 Mbit/s
95th percentile per-packet one-way delay: 54.321 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 59.08 Mbit/s
95th percentile per-packet one-way delay: 54.110 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 54.351 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 54.379 ms
Loss rate: 2.93%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 20:16:55

End at: 2018-06-07 20:17:25

Local clock offset: 0.009 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-06-07 22:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.35 Mbit/s

95th percentile per-packet one-way delay: 53.595 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 60.12 Mbit/s

95th percentile per-packet one-way delay: 53.627 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 53.50 Mbit/s

95th percentile per-packet one-way delay: 49.874 ms

Loss rate: 0.67%

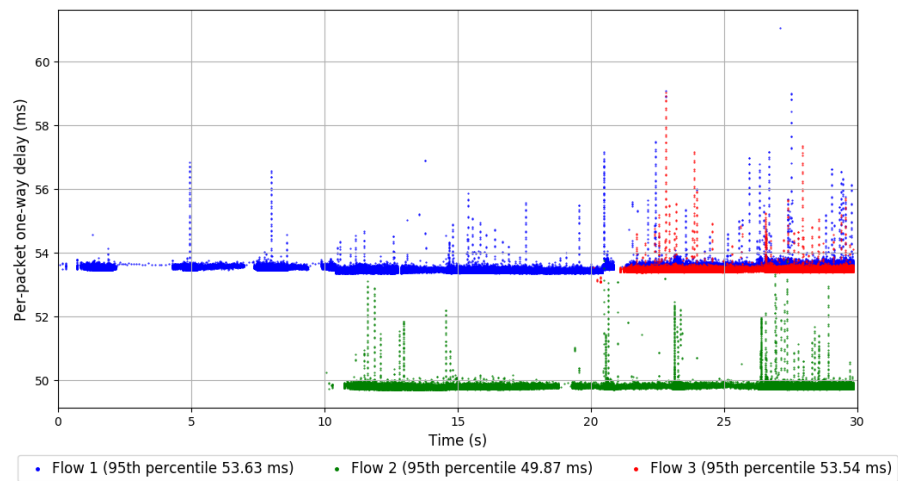
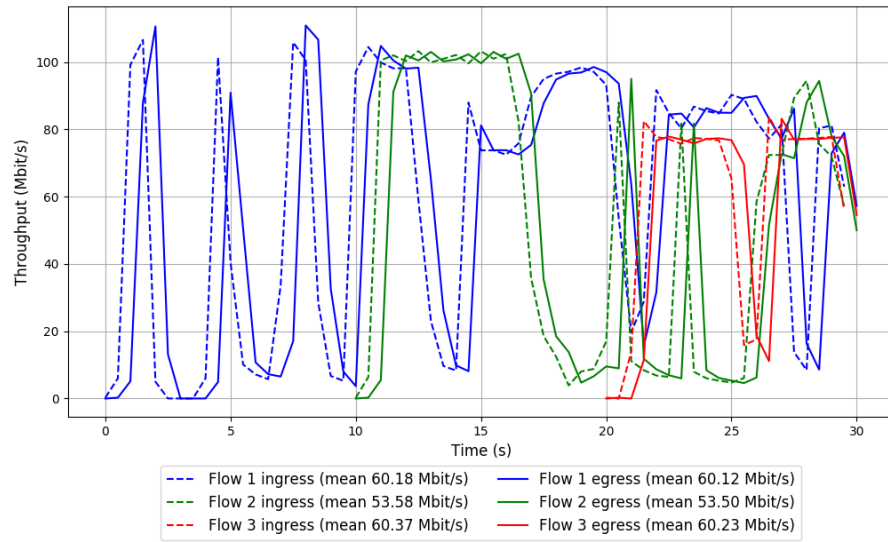
-- Flow 3:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 53.541 ms

Loss rate: 0.85%

Run 10: Report of QUIC Cubic — Data Link

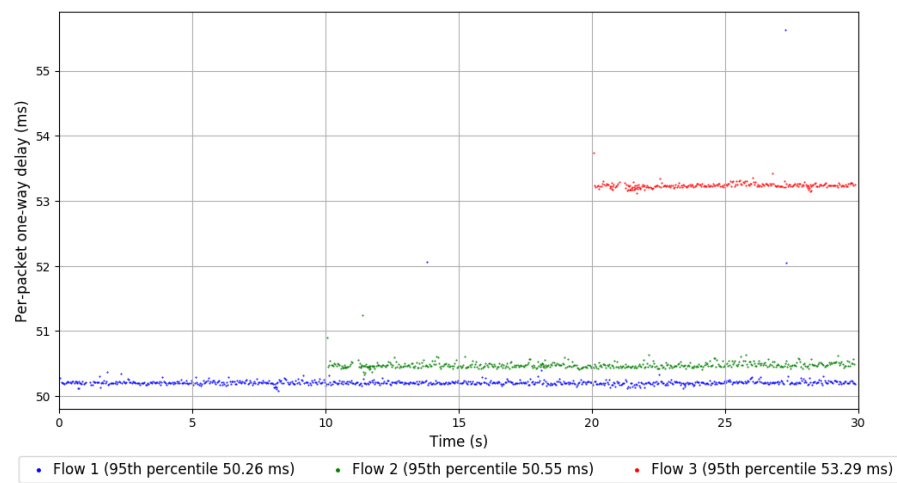
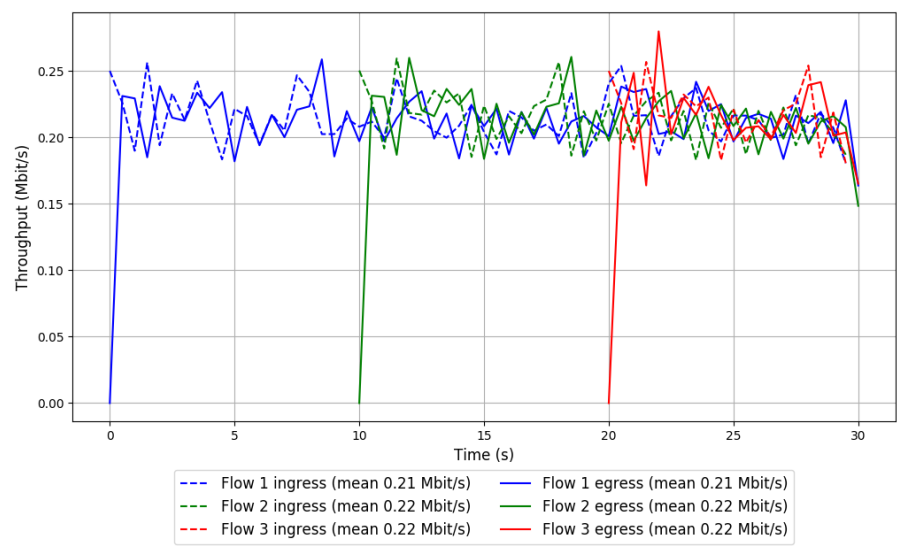


```
Run 1: Statistics of SReAM

Start at: 2018-06-07 16:50:35
End at: 2018-06-07 16:51:05
Local clock offset: -0.277 ms
Remote clock offset: -0.953 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.260 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.293 ms
Loss rate: 1.08%
```

Run 1: Report of SReAM — Data Link

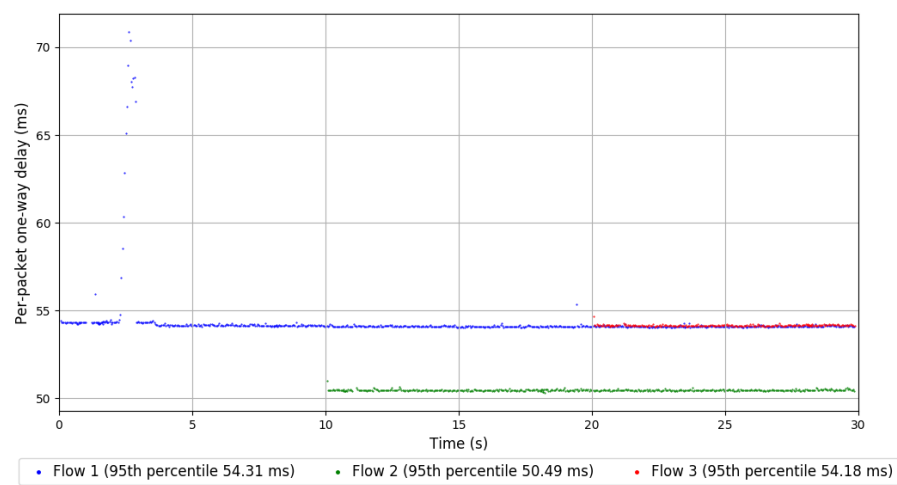
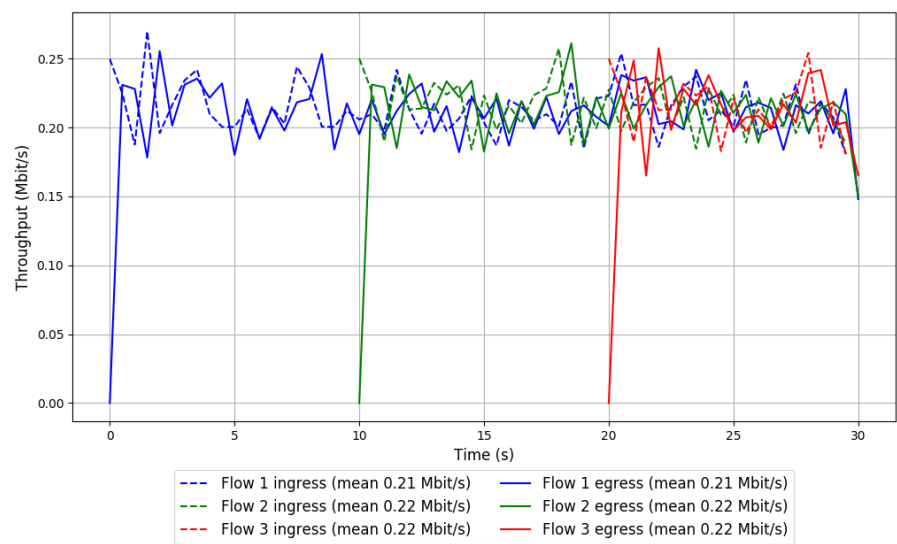


```
Run 2: Statistics of SReAM

Start at: 2018-06-07 17:12:59
End at: 2018-06-07 17:13:29
Local clock offset: 0.363 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.284 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.314 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.493 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.183 ms
Loss rate: 1.09%
```

Run 2: Report of SCReAM — Data Link

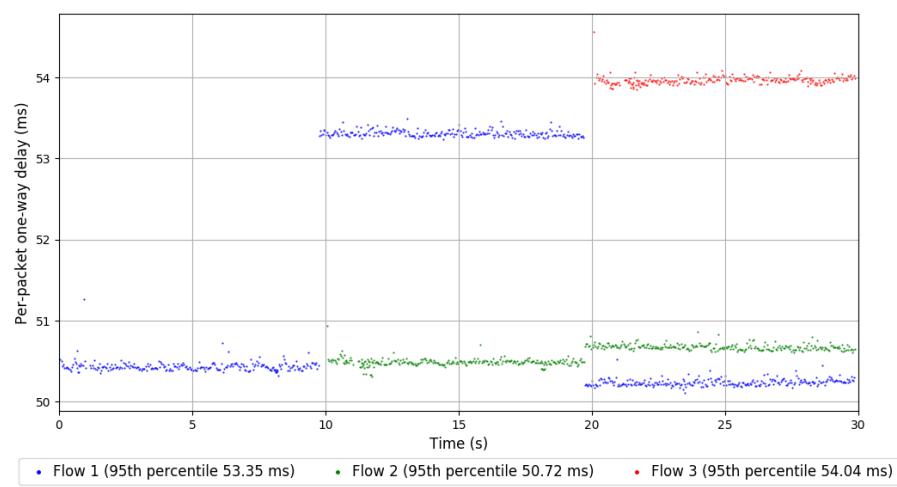
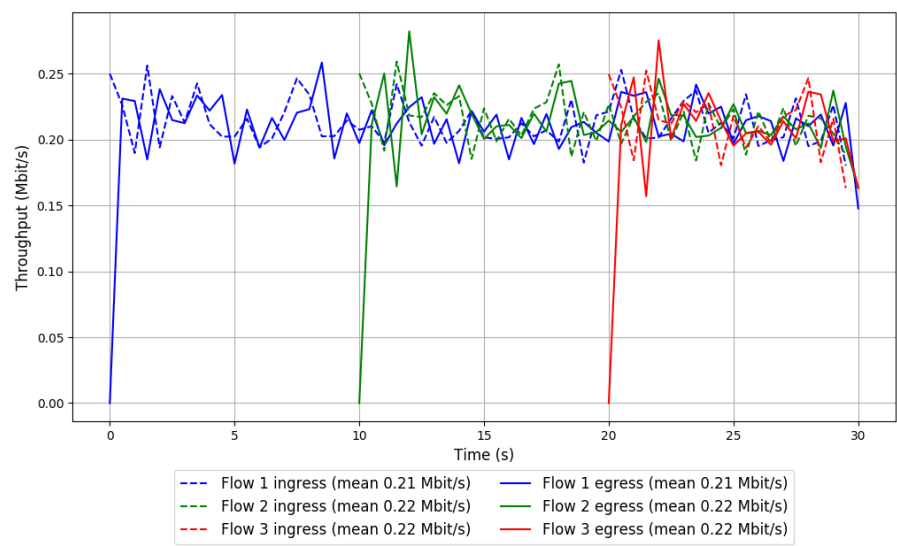


Run 3: Statistics of SCReAM

Start at: 2018-06-07 17:36:05
End at: 2018-06-07 17:36:35
Local clock offset: -0.201 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.349 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.717 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.74%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-06-07 17:59:06

End at: 2018-06-07 17:59:36

Local clock offset: -0.091 ms

Remote clock offset: 0.612 ms

Below is generated by plot.py at 2018-06-07 22:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.702 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.61%

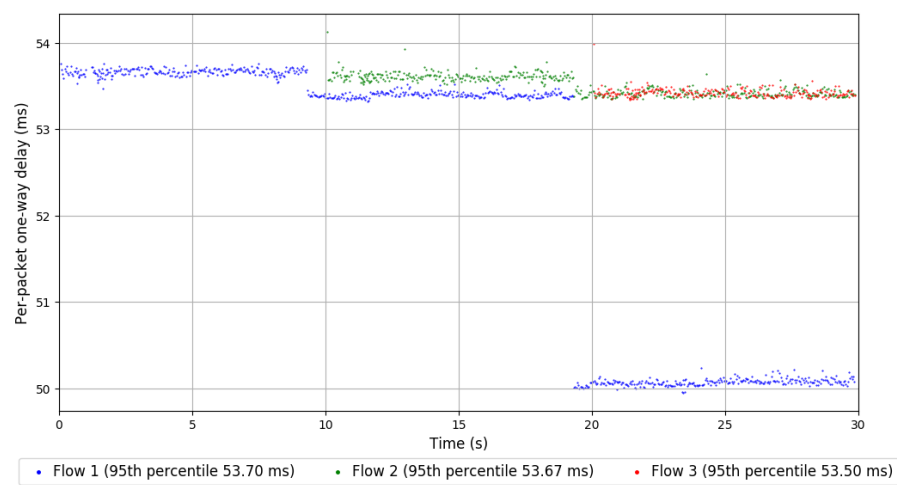
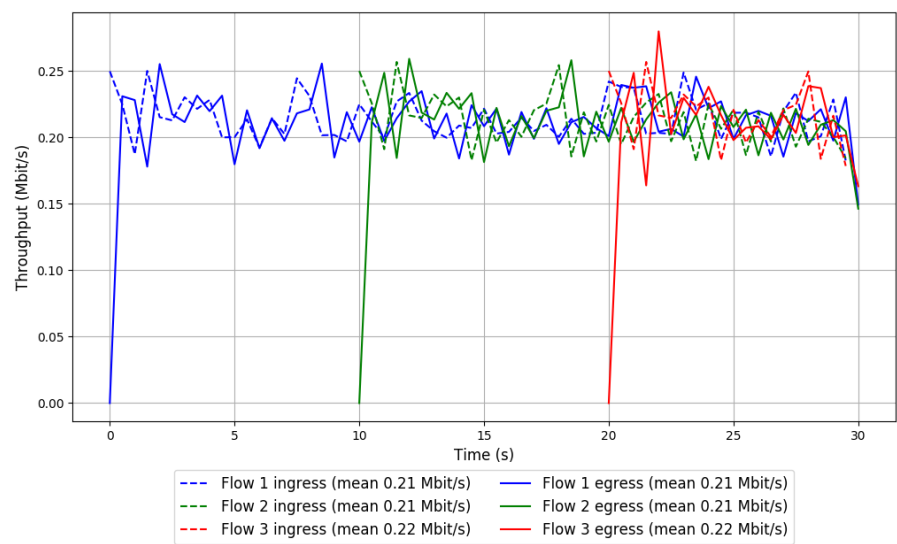
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.501 ms

Loss rate: 1.07%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-07 18:21:43

End at: 2018-06-07 18:22:13

Local clock offset: -0.082 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2018-06-07 22:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.634 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.644 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.599 ms

Loss rate: 0.61%

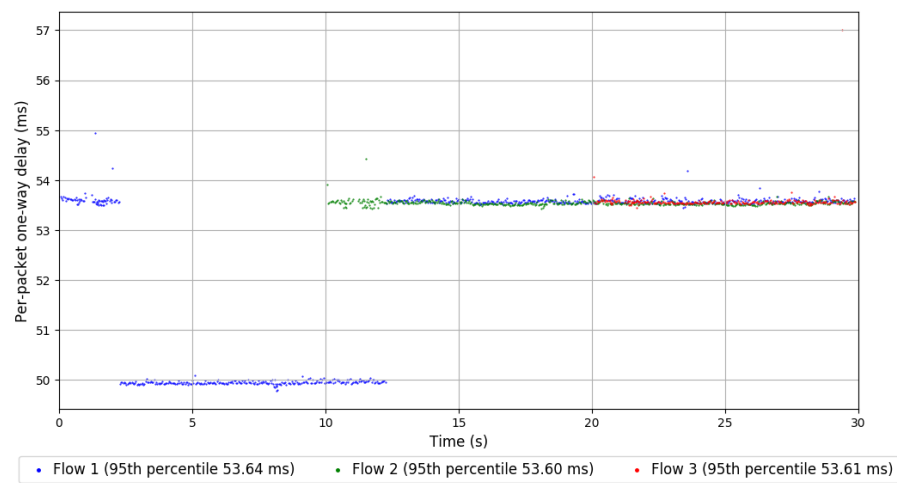
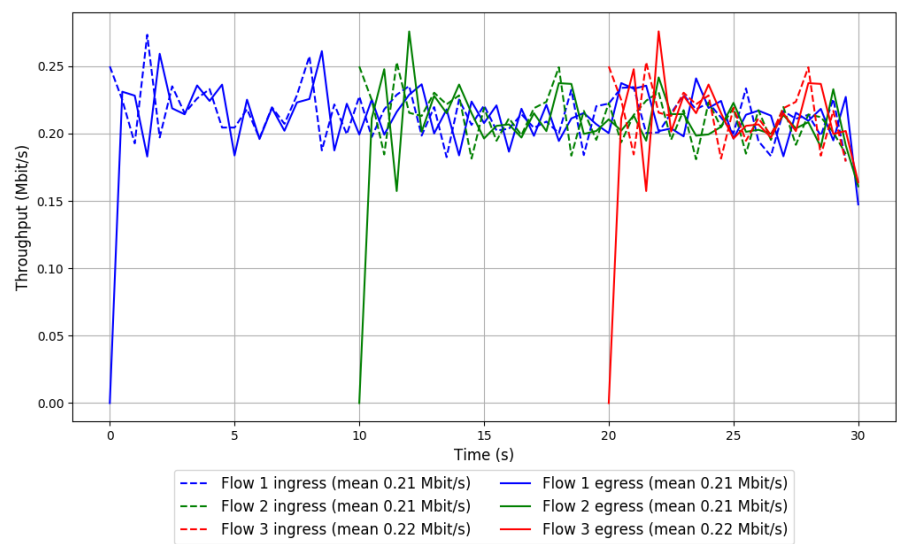
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 1.09%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-07 18:44:38

End at: 2018-06-07 18:45:08

Local clock offset: -0.022 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-06-07 22:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.352 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.61%

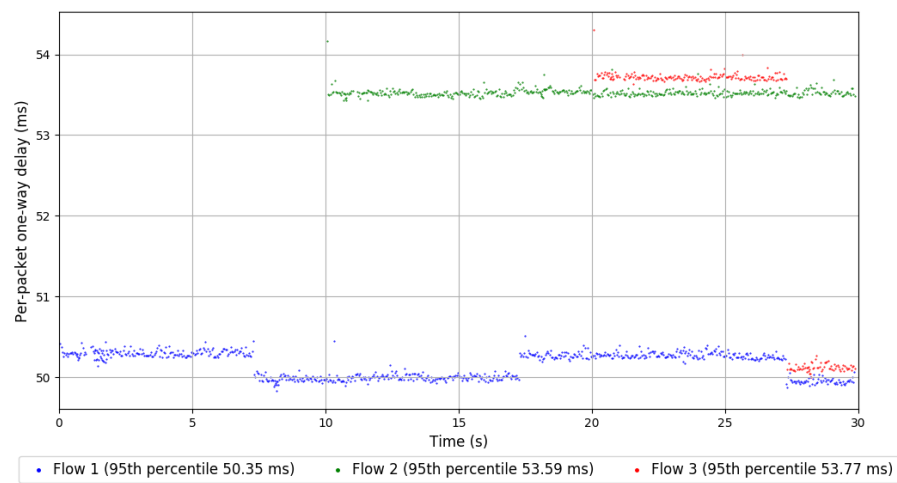
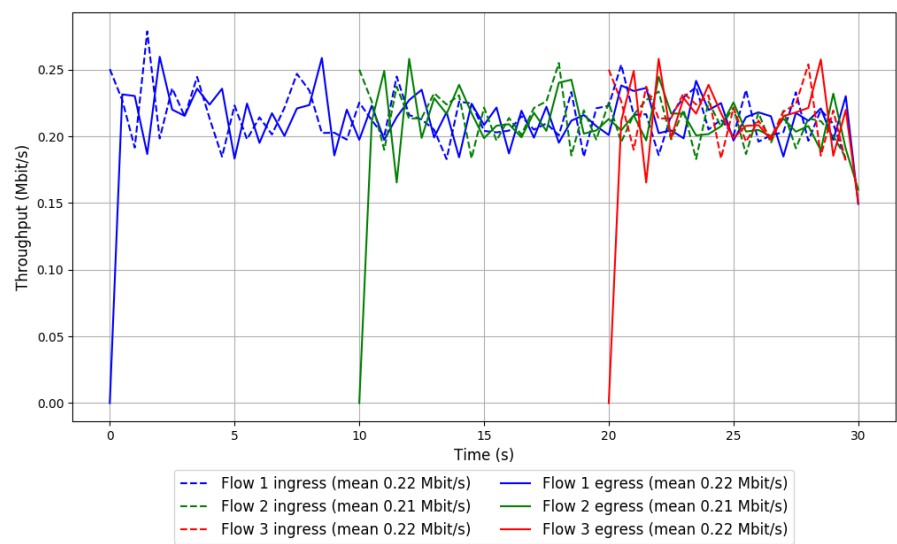
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.768 ms

Loss rate: 1.10%

Run 6: Report of SReAM — Data Link

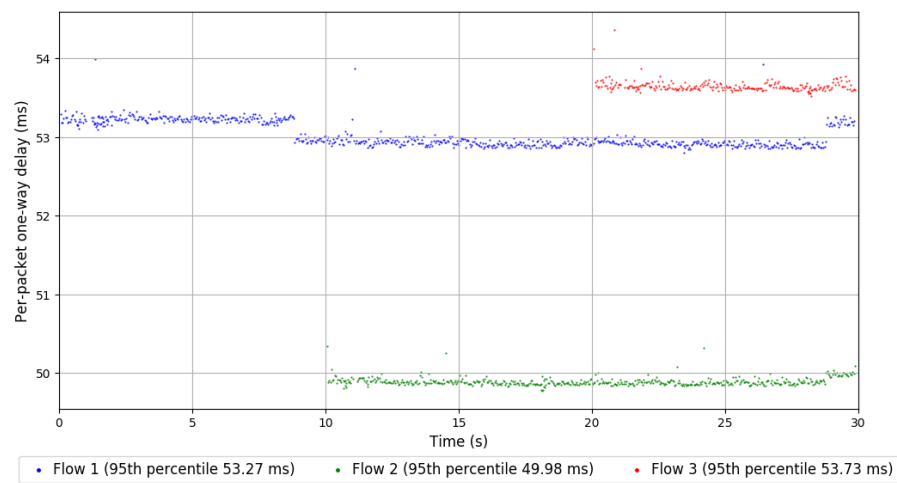
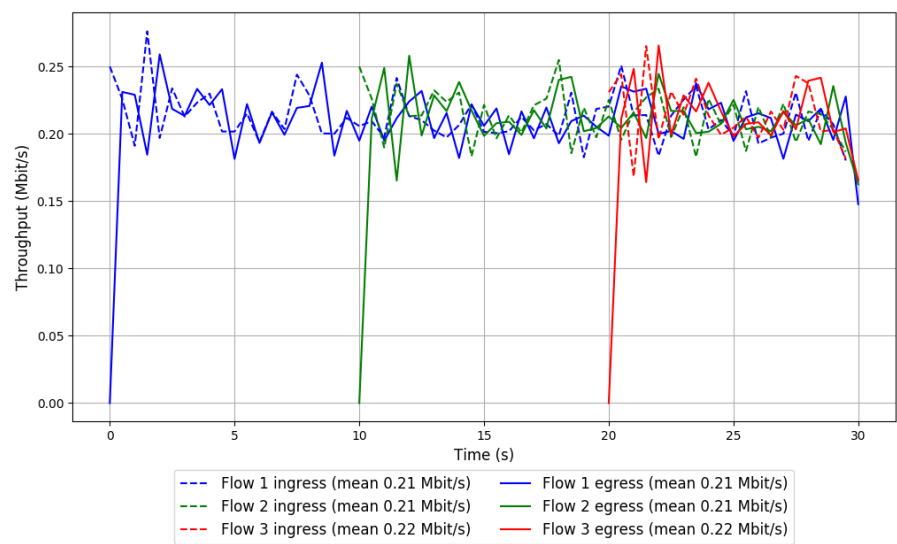


Run 7: Statistics of SReAM

Start at: 2018-06-07 19:08:06
End at: 2018-06-07 19:08:36
Local clock offset: -0.362 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.660 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 49.985 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.726 ms
Loss rate: 0.74%

Run 7: Report of SReAM — Data Link

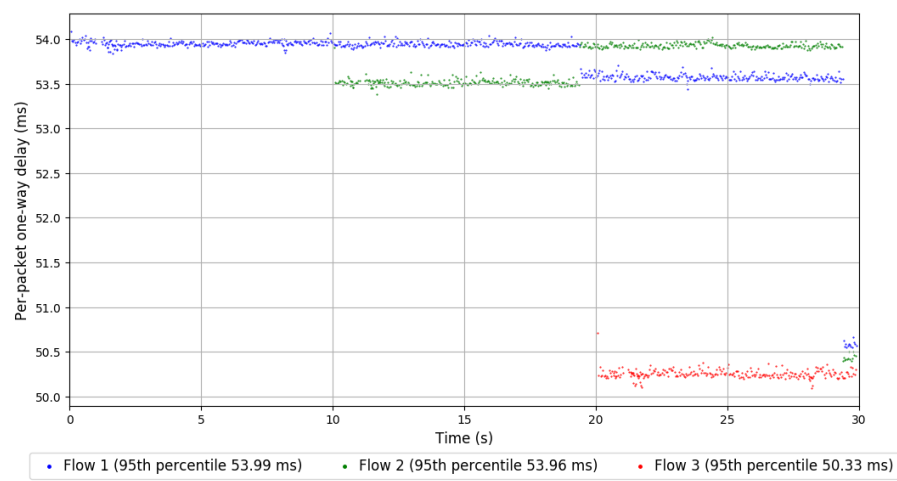
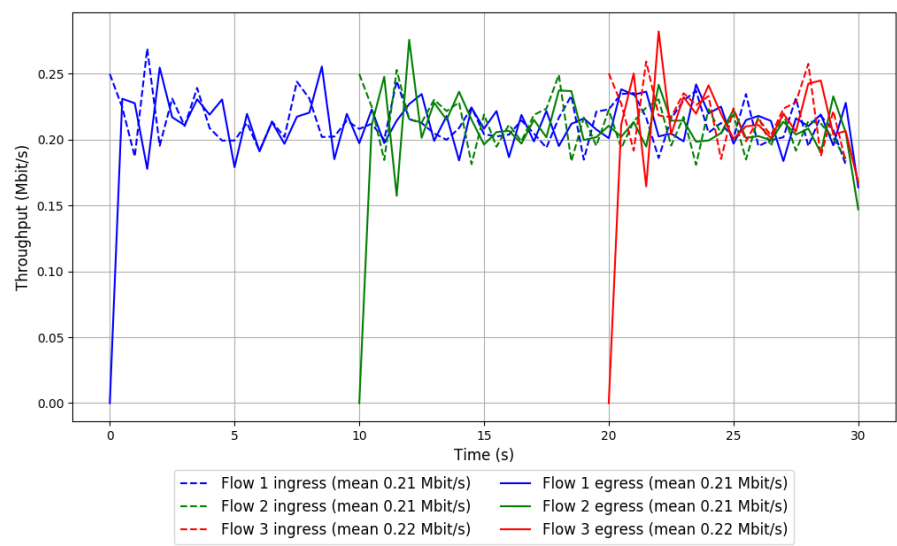


Run 8: Statistics of SCReAM

Start at: 2018-06-07 19:30:46
End at: 2018-06-07 19:31:16
Local clock offset: -0.078 ms
Remote clock offset: -0.617 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.989 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 1.09%

Run 8: Report of SReAM — Data Link

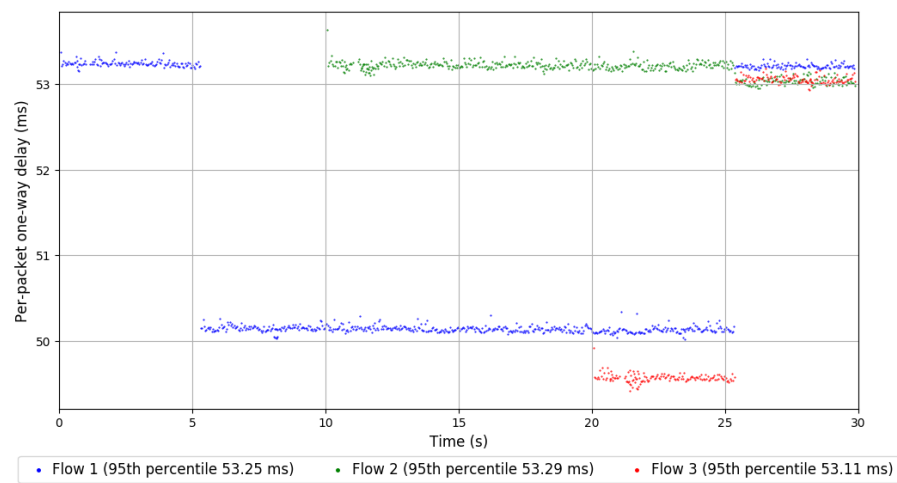
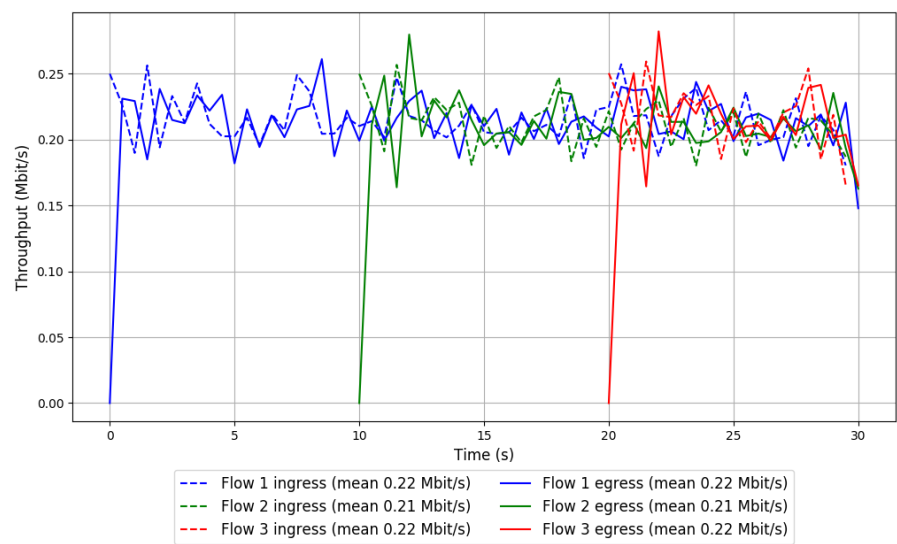


Run 9: Statistics of SReAM

Start at: 2018-06-07 19:53:10
End at: 2018-06-07 19:53:40
Local clock offset: -0.378 ms
Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.266 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.254 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.286 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.73%

Run 9: Report of SReAM — Data Link

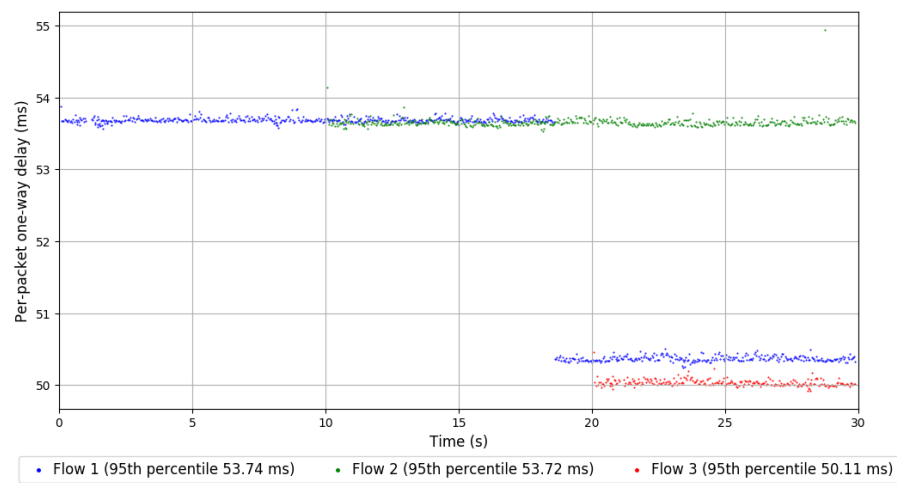
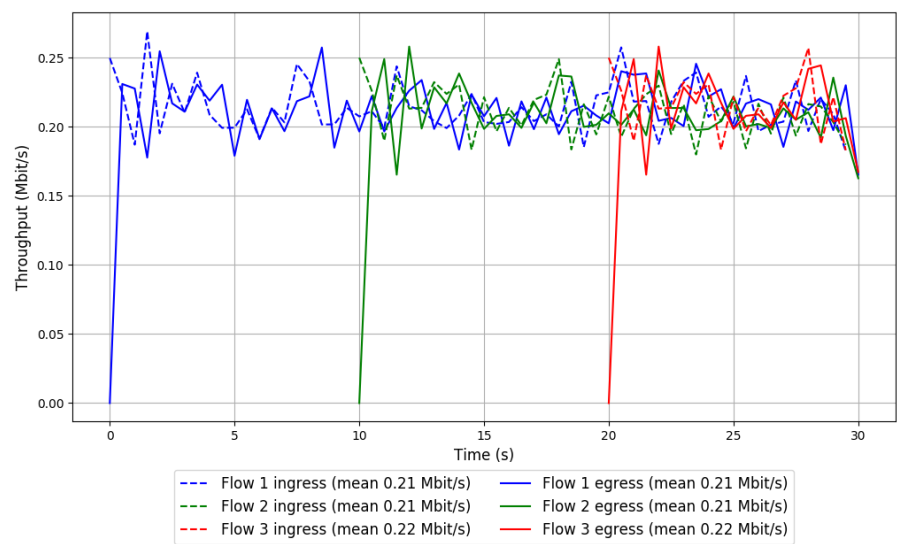


Run 10: Statistics of SReAM

Start at: 2018-06-07 20:15:47
End at: 2018-06-07 20:16:17
Local clock offset: -0.351 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.738 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.107 ms
Loss rate: 1.10%

Run 10: Report of SReAM — Data Link

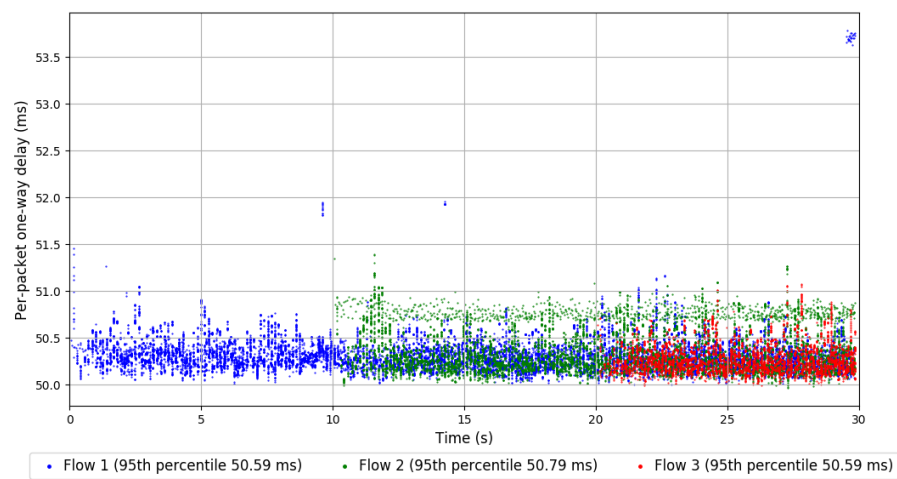
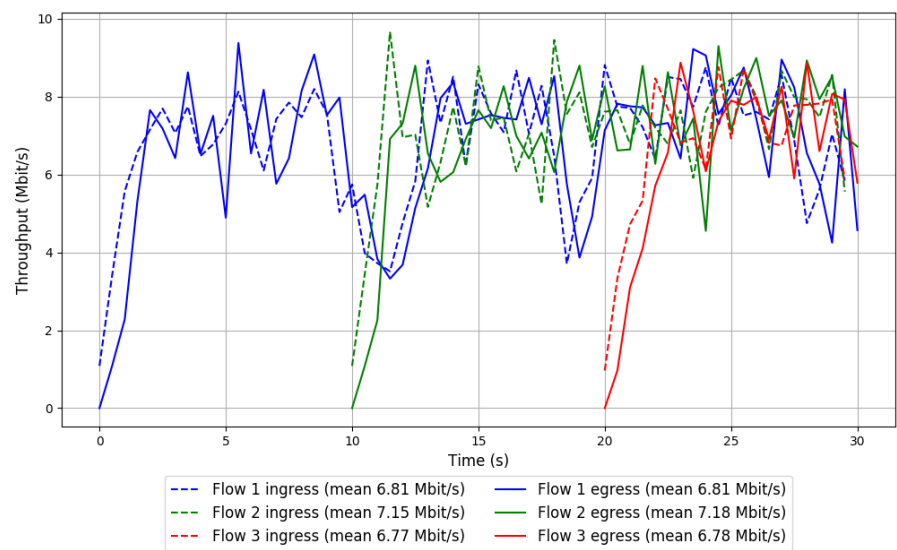


Run 1: Statistics of Sprout

Start at: 2018-06-07 16:46:43
End at: 2018-06-07 16:47:13
Local clock offset: -0.123 ms
Remote clock offset: -0.978 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 50.700 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 50.589 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 50.789 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 50.590 ms
Loss rate: 0.78%

Run 1: Report of Sprout — Data Link

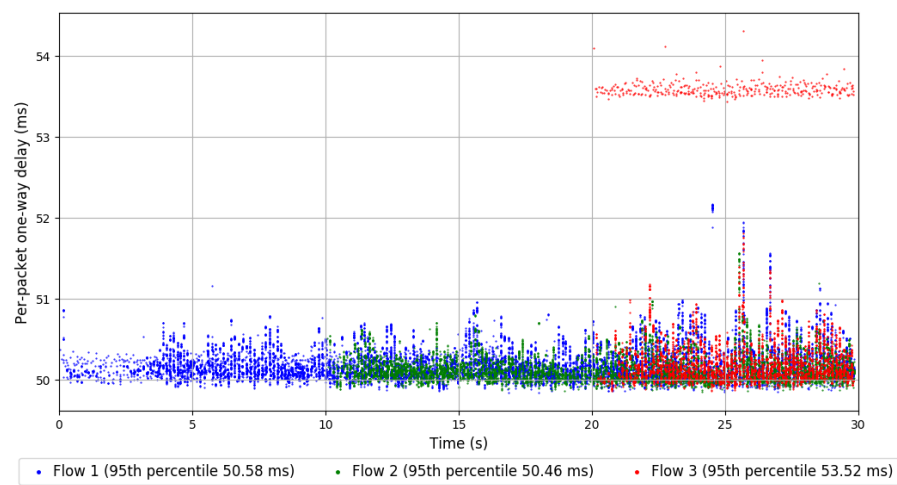
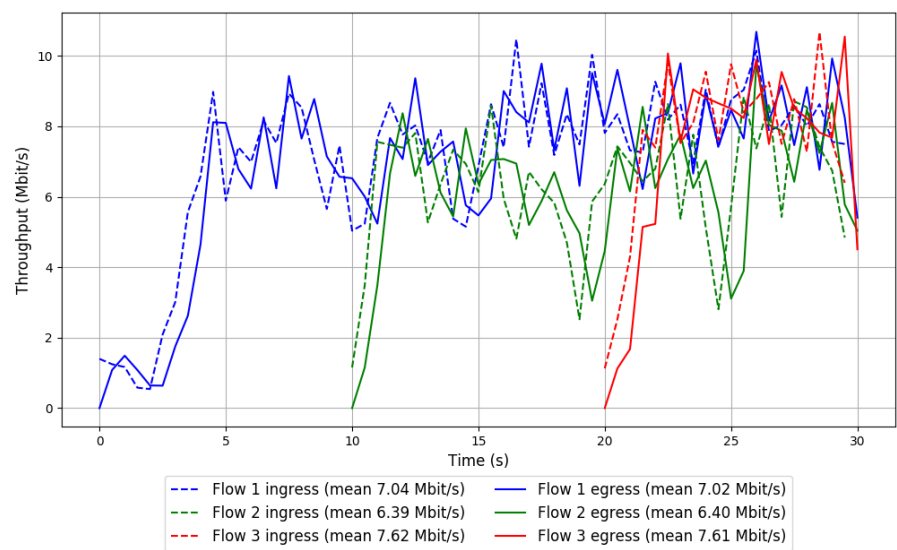


Run 2: Statistics of Sprout

Start at: 2018-06-07 17:09:06
End at: 2018-06-07 17:09:36
Local clock offset: -0.129 ms
Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 50.601 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 50.581 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 53.516 ms
Loss rate: 1.26%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-07 17:32:12

End at: 2018-06-07 17:32:42

Local clock offset: -0.24 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-06-07 22:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 53.223 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 53.192 ms

Loss rate: 0.00%

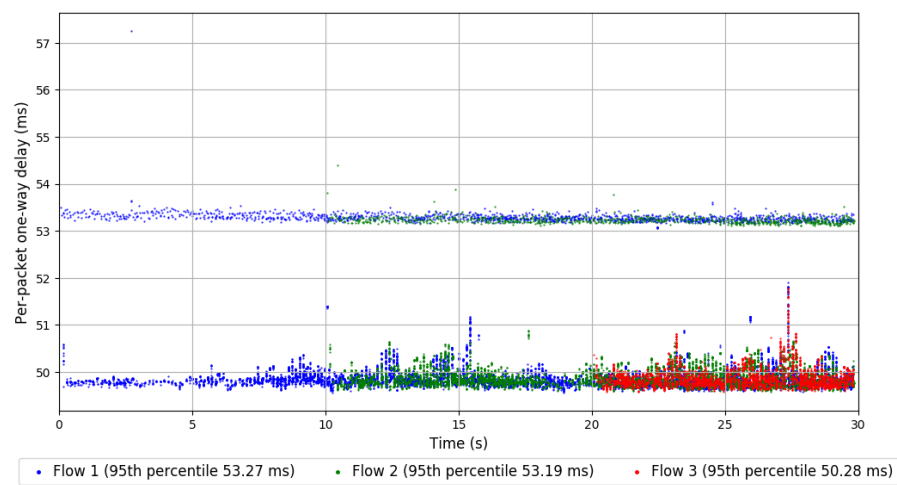
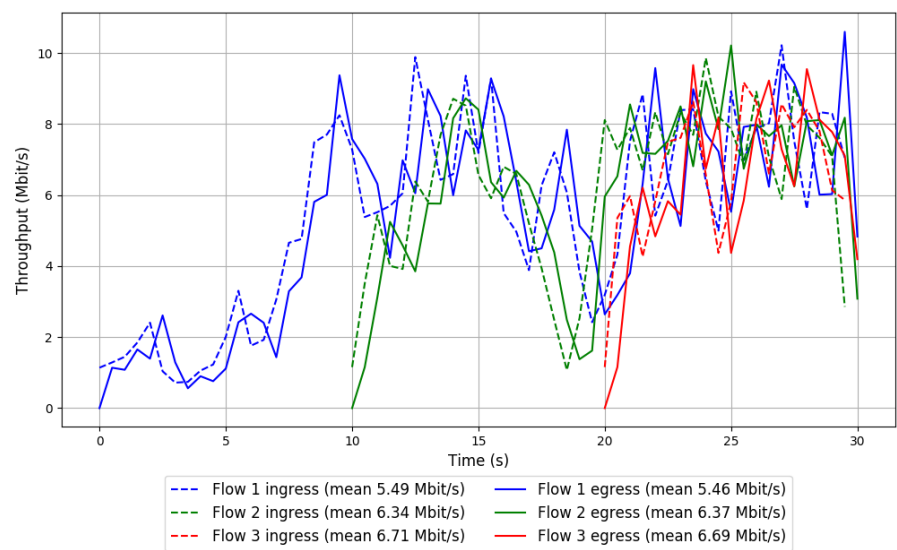
-- Flow 3:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 1.26%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-07 17:55:10

End at: 2018-06-07 17:55:40

Local clock offset: 0.128 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-06-07 22:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.09 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 50.828 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 50.799 ms

Loss rate: 0.55%

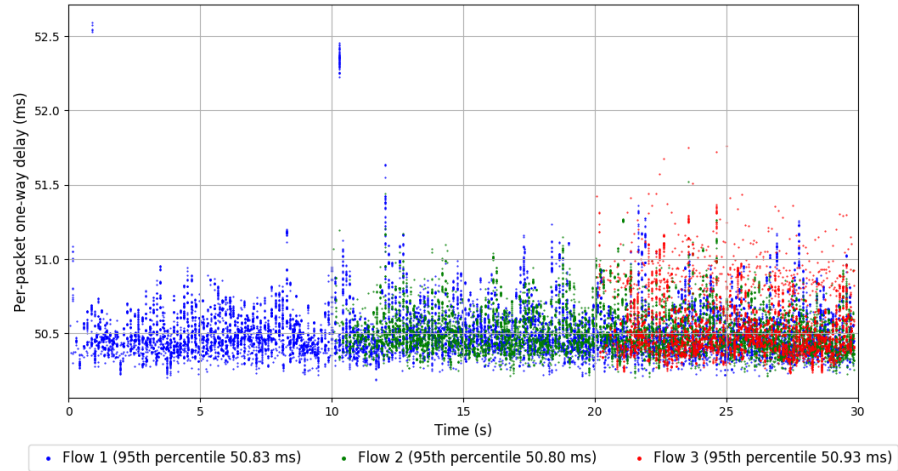
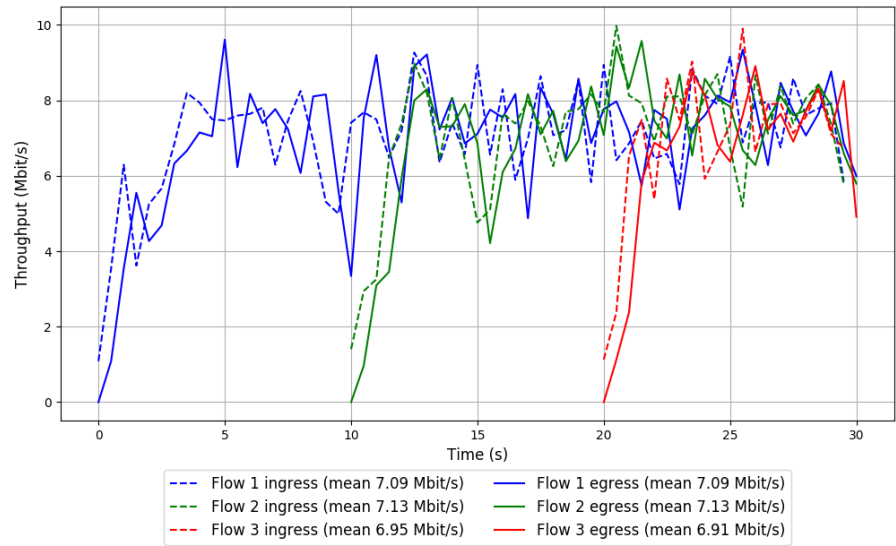
-- Flow 3:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 1.32%

Run 4: Report of Sprout — Data Link

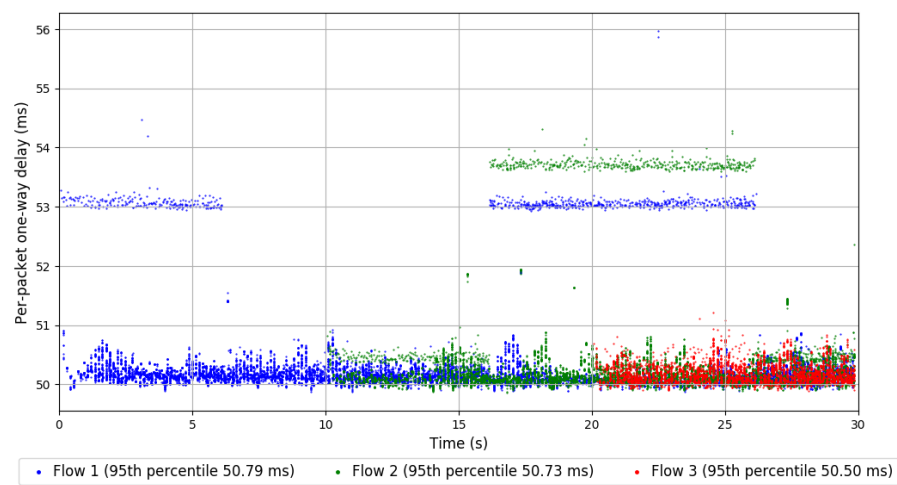
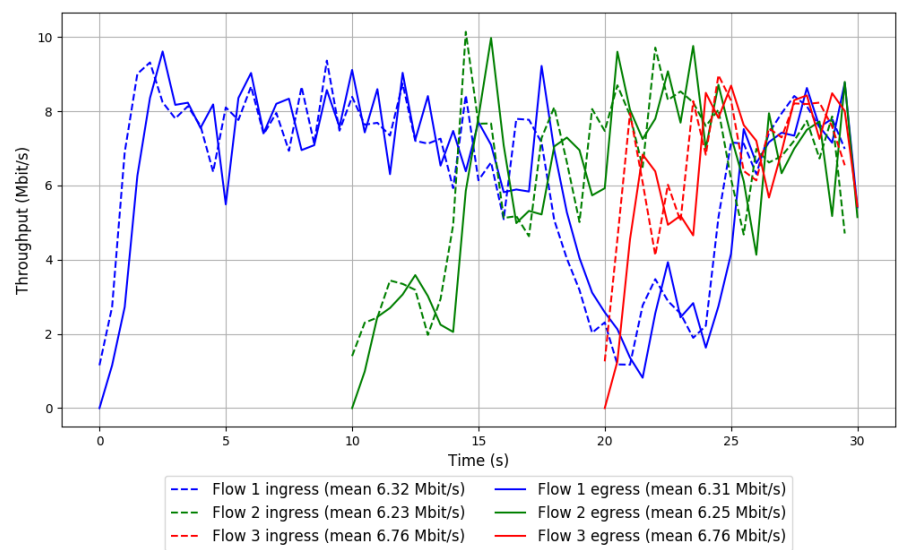


Run 5: Statistics of Sprout

Start at: 2018-06-07 18:17:49
End at: 2018-06-07 18:18:19
Local clock offset: -0.108 ms
Remote clock offset: 0.532 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 50.651 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 50.791 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 50.726 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 50.500 ms
Loss rate: 1.03%

Run 5: Report of Sprout — Data Link

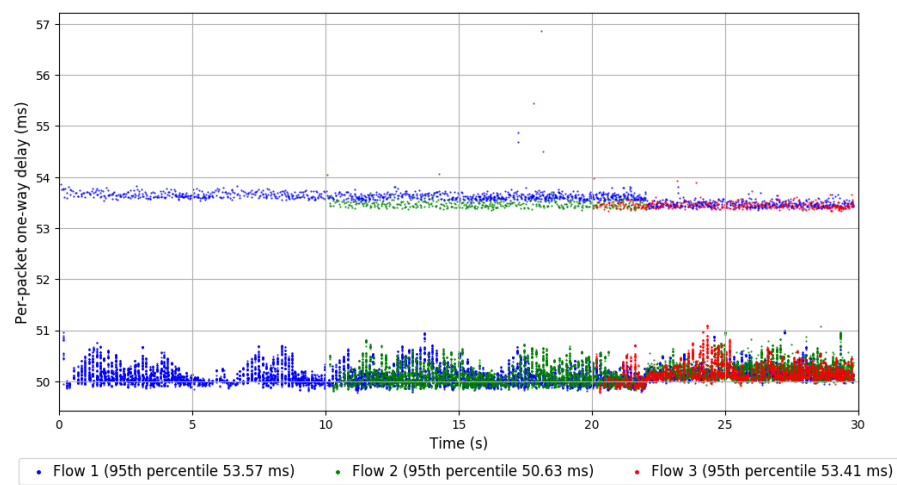
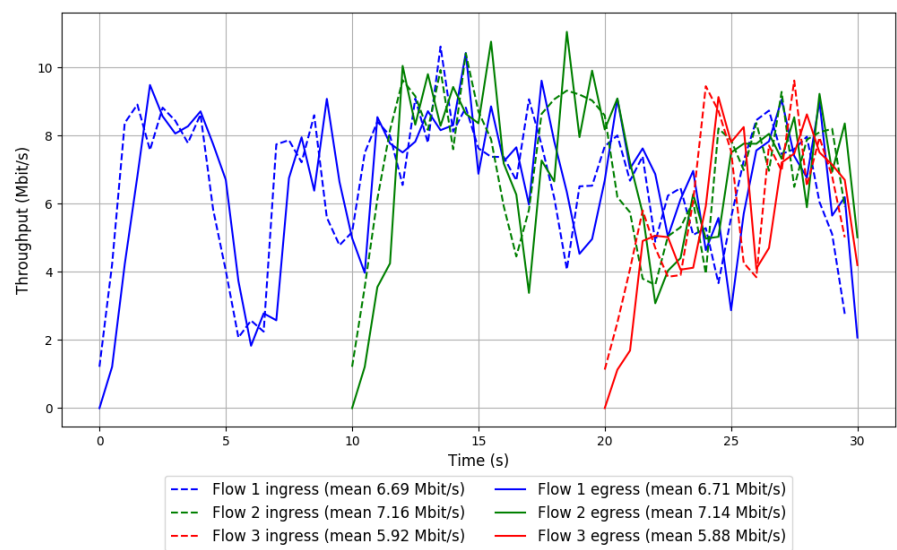


Run 6: Statistics of Sprout

Start at: 2018-06-07 18:40:43
End at: 2018-06-07 18:41:13
Local clock offset: -0.136 ms
Remote clock offset: 0.26 ms

```
# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 53.571 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 50.631 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 53.412 ms
Loss rate: 1.48%
```

Run 6: Report of Sprout — Data Link

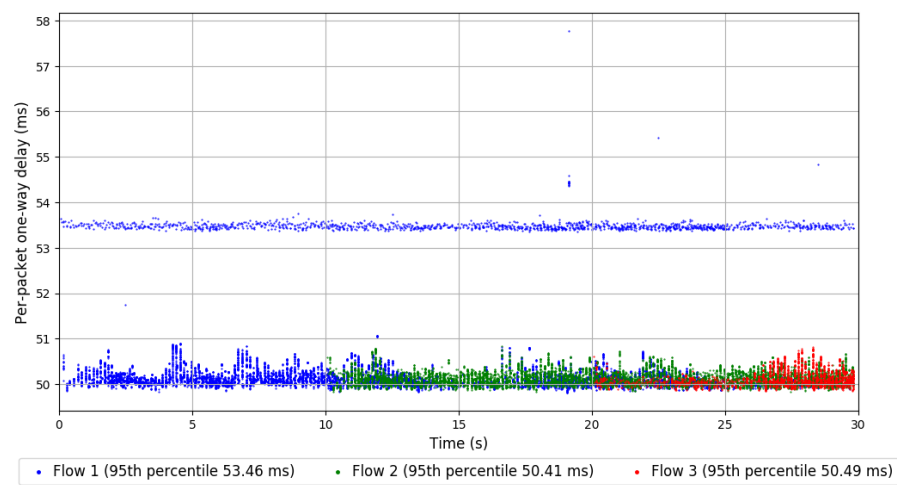
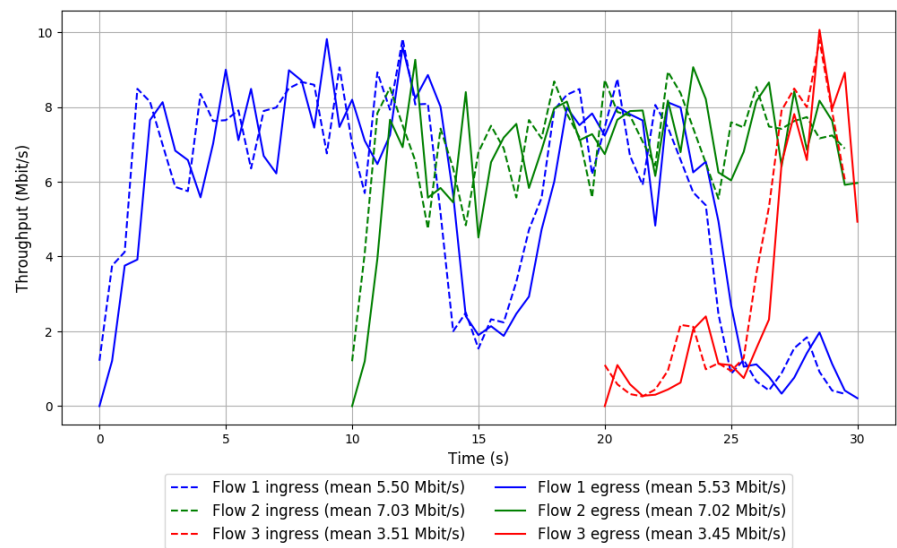


Run 7: Statistics of Sprout

Start at: 2018-06-07 19:04:12
End at: 2018-06-07 19:04:42
Local clock offset: 0.019 ms
Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 53.461 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 50.408 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 50.495 ms
Loss rate: 2.78%

Run 7: Report of Sprout — Data Link

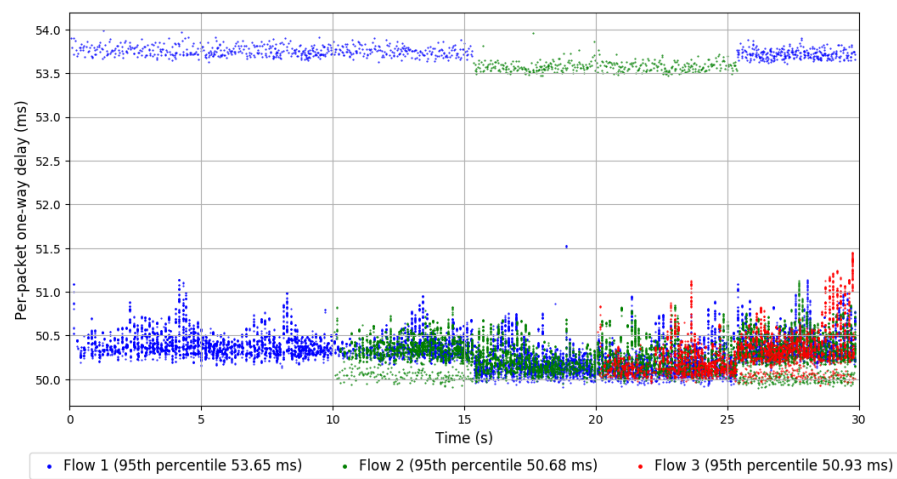
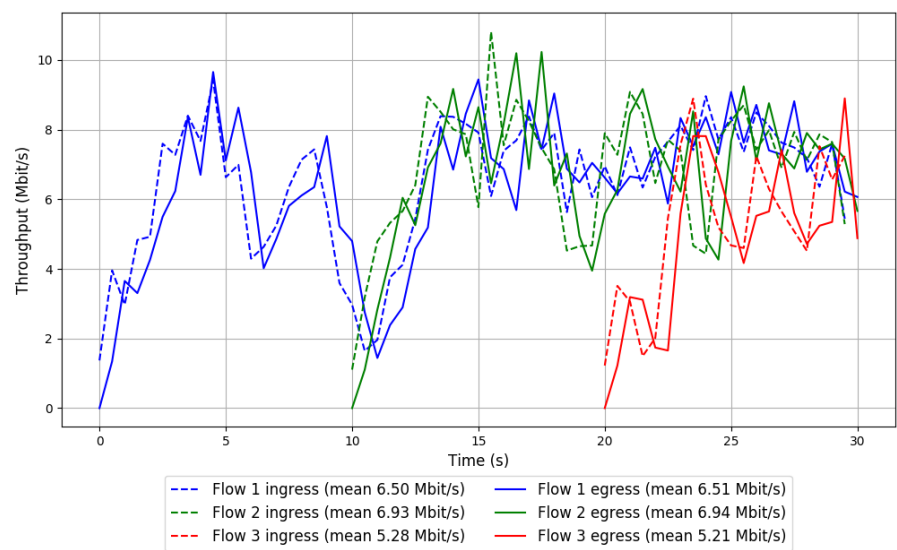


Run 8: Statistics of Sprout

Start at: 2018-06-07 19:26:50
End at: 2018-06-07 19:27:20
Local clock offset: -0.116 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-06-07 22:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 50.883 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 50.928 ms
Loss rate: 2.27%

Run 8: Report of Sprout — Data Link

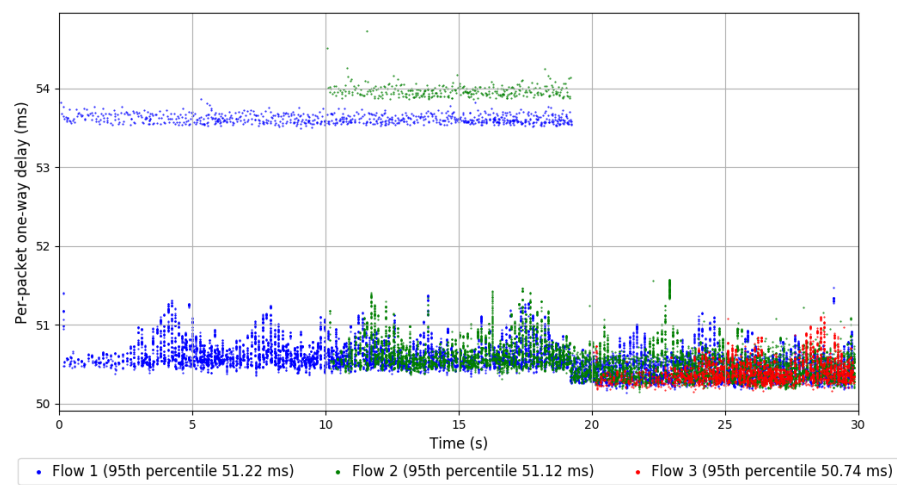
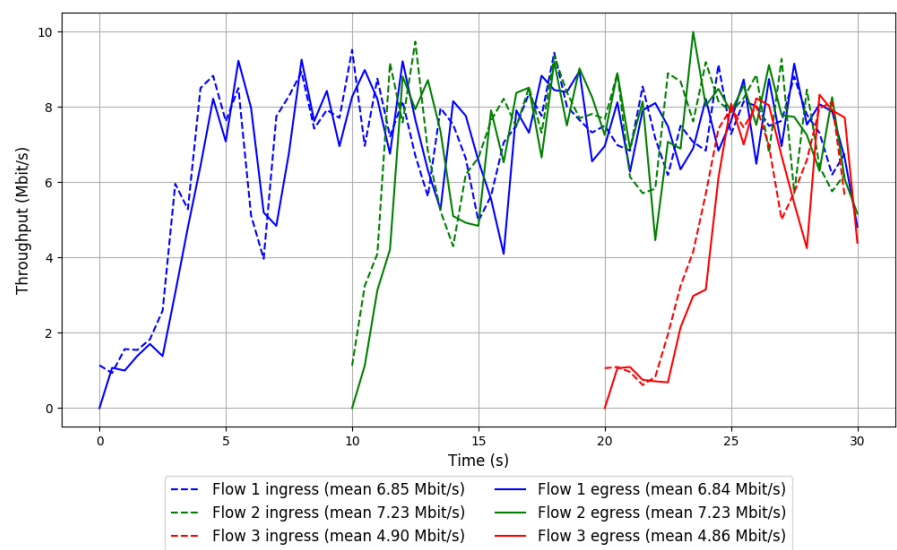


Run 9: Statistics of Sprout

Start at: 2018-06-07 19:49:16
End at: 2018-06-07 19:49:46
Local clock offset: 0.128 ms
Remote clock offset: -0.307 ms

```
# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 51.088 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 51.216 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 1.76%
```


Run 9: Report of Sprout — Data Link

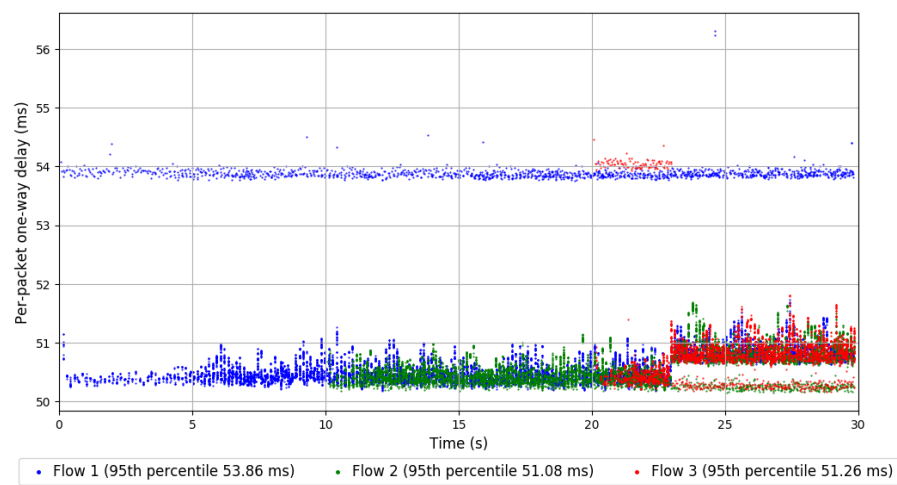
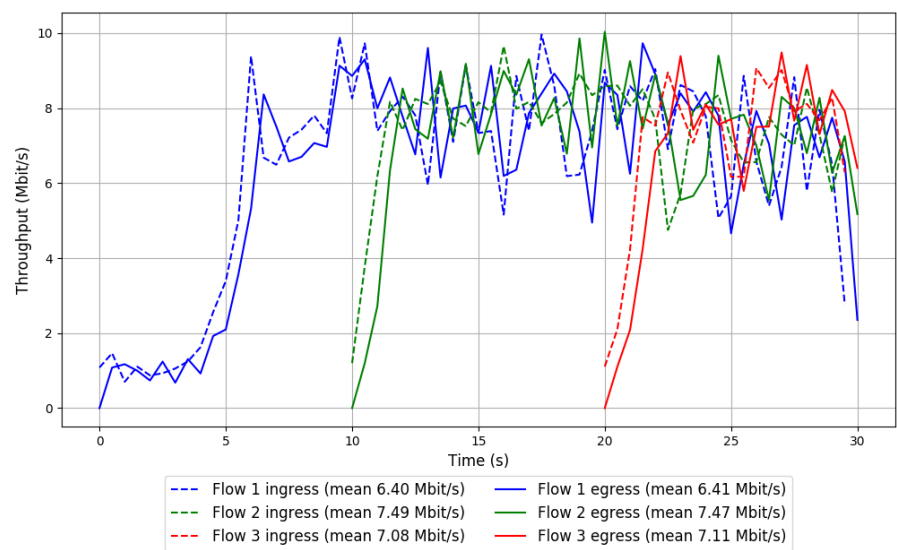


Run 10: Statistics of Sprout

Start at: 2018-06-07 20:11:52
End at: 2018-06-07 20:12:22
Local clock offset: 0.017 ms
Remote clock offset: -0.219 ms

```
# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 51.370 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 51.263 ms
Loss rate: 0.70%
```

Run 10: Report of Sprout — Data Link

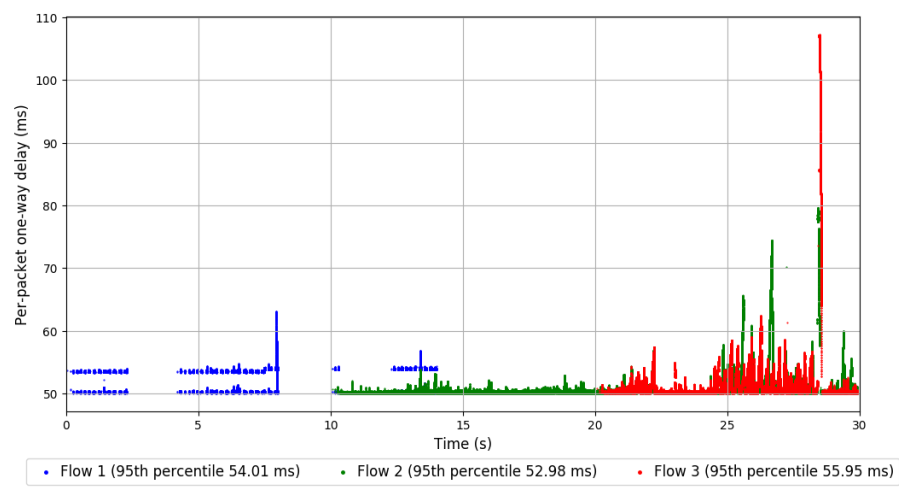
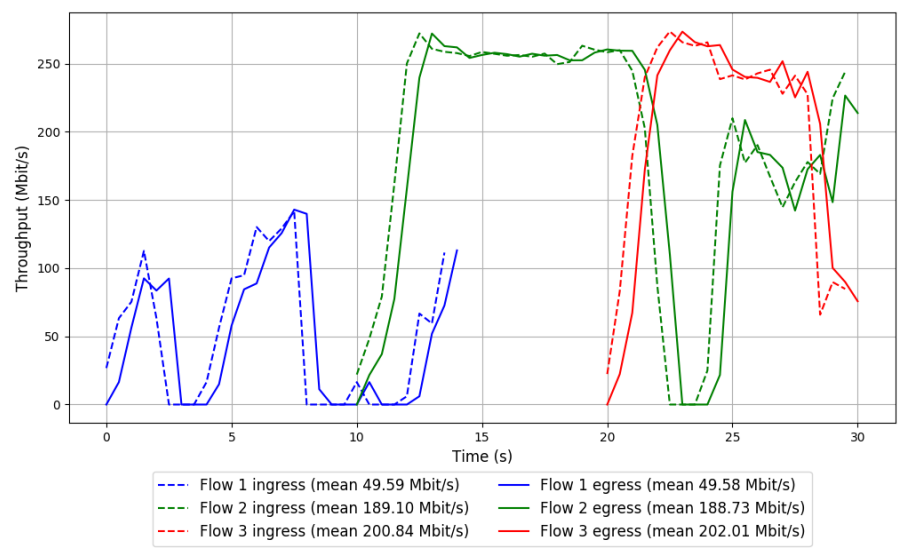


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 16:35:35
End at: 2018-06-07 16:36:05
Local clock offset: 0.324 ms
Remote clock offset: -0.575 ms

Below is generated by plot.py at 2018-06-07 22:15:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 215.31 Mbit/s
95th percentile per-packet one-way delay: 54.371 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 49.58 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 188.73 Mbit/s
95th percentile per-packet one-way delay: 52.981 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 202.01 Mbit/s
95th percentile per-packet one-way delay: 55.950 ms
Loss rate: 0.45%

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

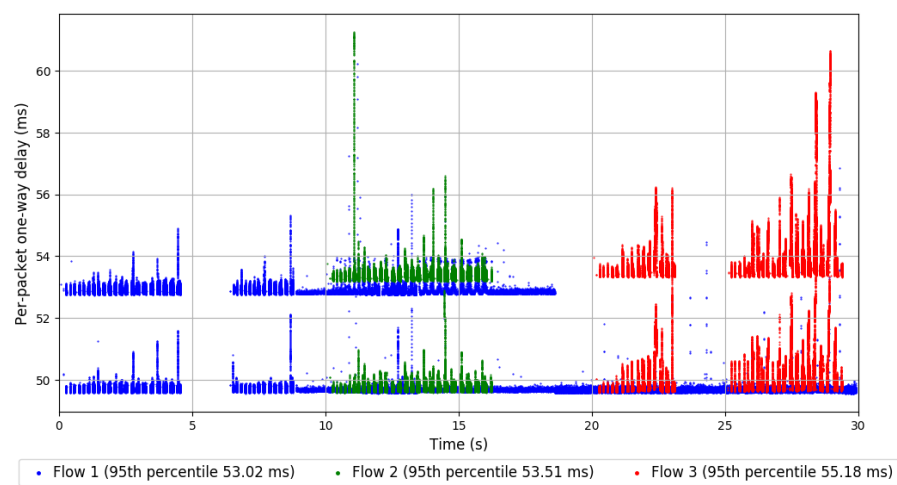
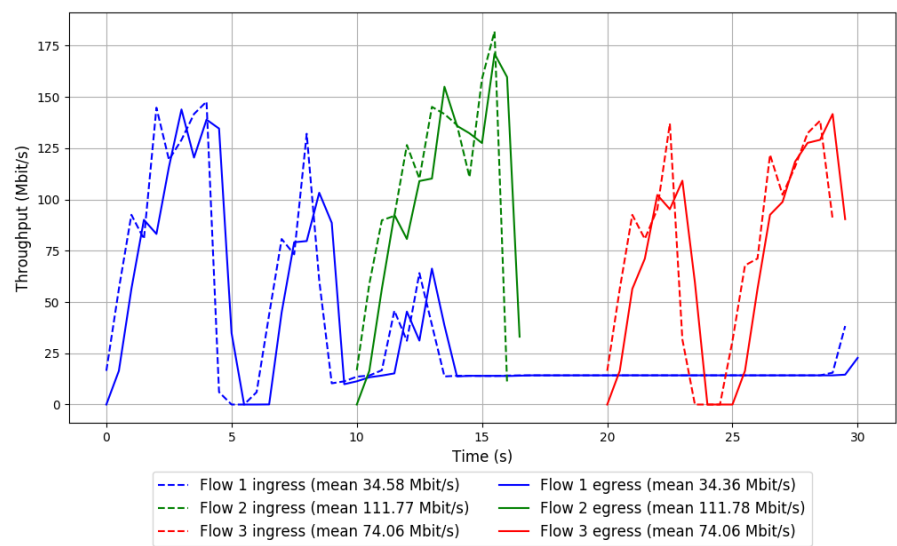


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 16:58:14
End at: 2018-06-07 16:58:44
Local clock offset: -0.196 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2018-06-07 22:15:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 53.015 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 111.78 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.06 Mbit/s
95th percentile per-packet one-way delay: 55.180 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 17:20:41

End at: 2018-06-07 17:21:11

Local clock offset: -0.545 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-06-07 22:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.86 Mbit/s

95th percentile per-packet one-way delay: 53.866 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 207.53 Mbit/s

95th percentile per-packet one-way delay: 50.222 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 73.60 Mbit/s

95th percentile per-packet one-way delay: 54.141 ms

Loss rate: 0.63%

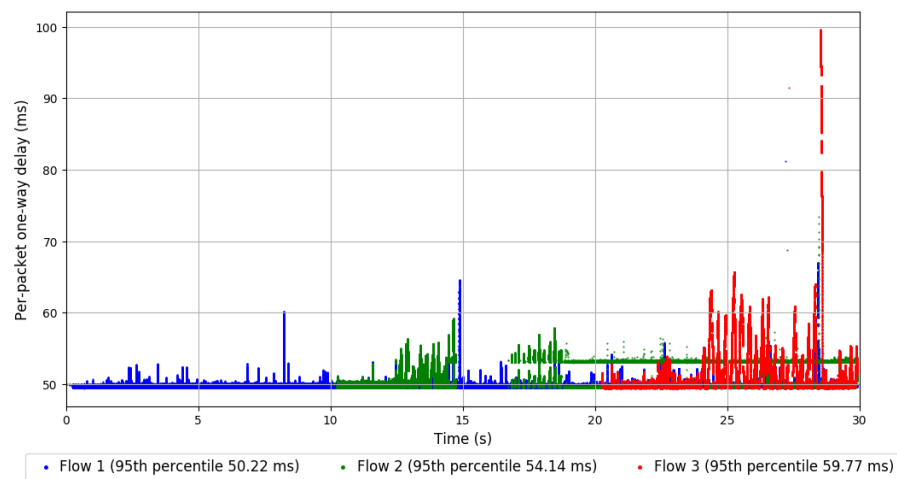
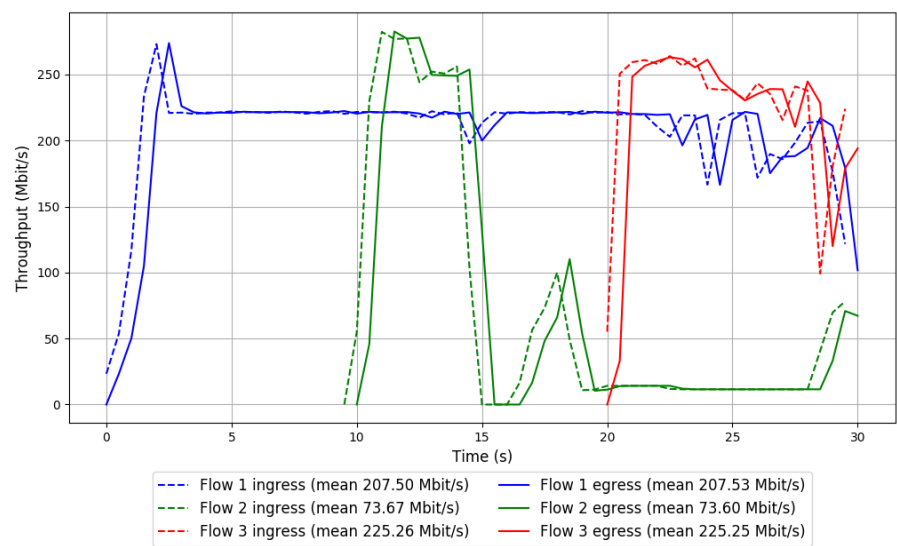
-- Flow 3:

Average throughput: 225.25 Mbit/s

95th percentile per-packet one-way delay: 59.772 ms

Loss rate: 1.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 17:43:52

End at: 2018-06-07 17:44:22

Local clock offset: 0.37 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-06-07 22:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 56.797 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 117.18 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 54.159 ms

Loss rate: 0.36%

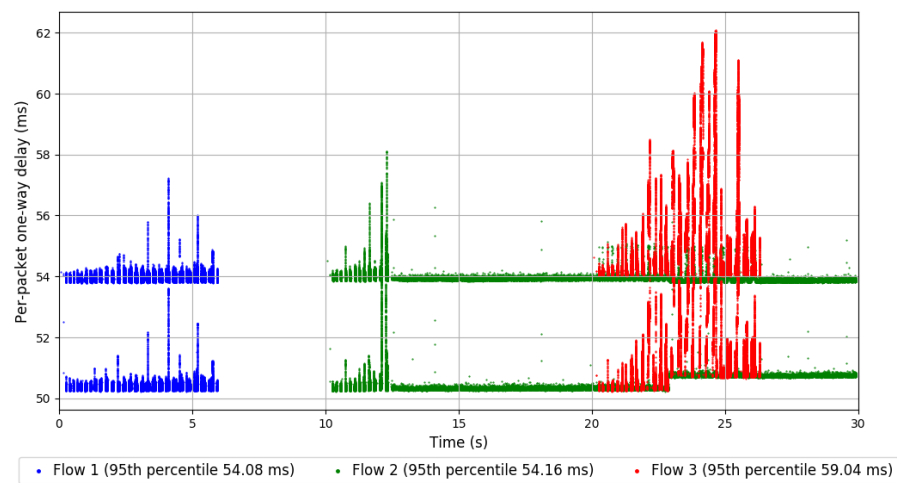
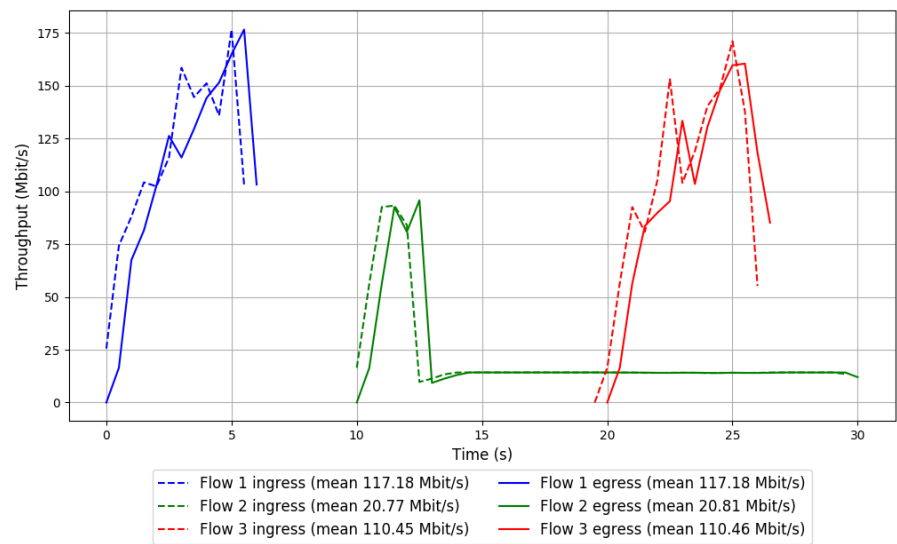
-- Flow 3:

Average throughput: 110.46 Mbit/s

95th percentile per-packet one-way delay: 59.037 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 18:06:46

End at: 2018-06-07 18:07:16

Local clock offset: 0.066 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-06-07 22:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 53.399 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 53.306 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 110.51 Mbit/s

95th percentile per-packet one-way delay: 52.499 ms

Loss rate: 0.05%

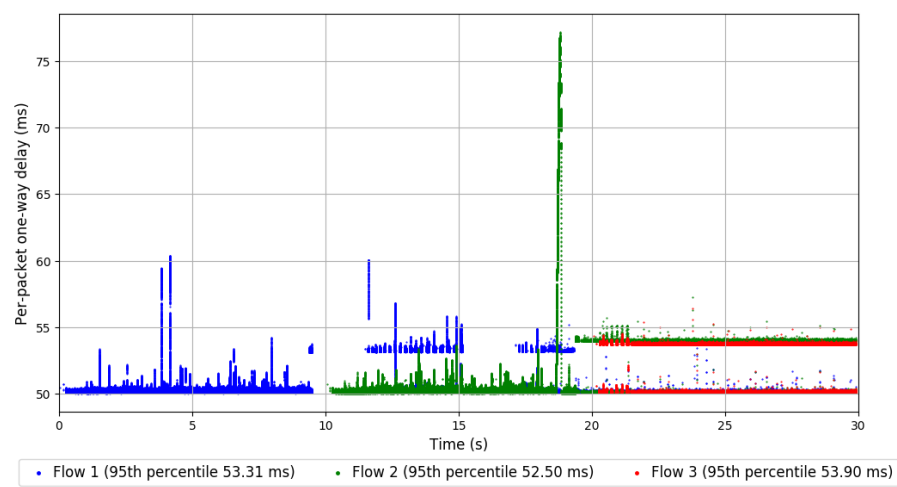
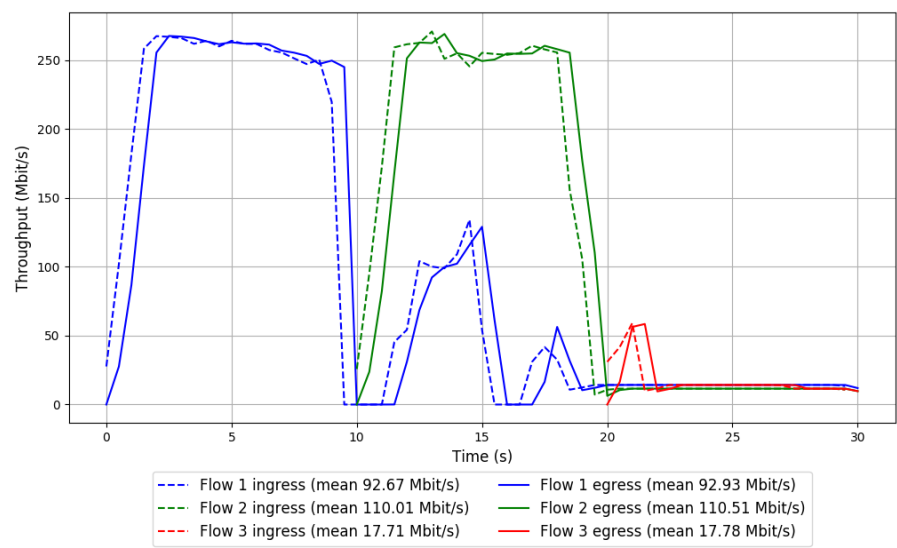
-- Flow 3:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.66%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-07 18:29:19

End at: 2018-06-07 18:29:49

Local clock offset: -0.429 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2018-06-07 22:20:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.11 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 255.22 Mbit/s

95th percentile per-packet one-way delay: 50.282 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 54.016 ms

Loss rate: 0.50%

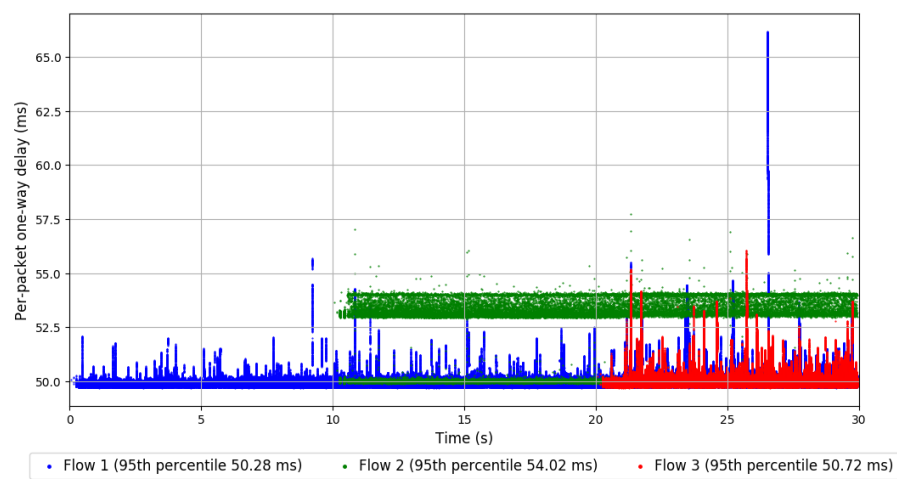
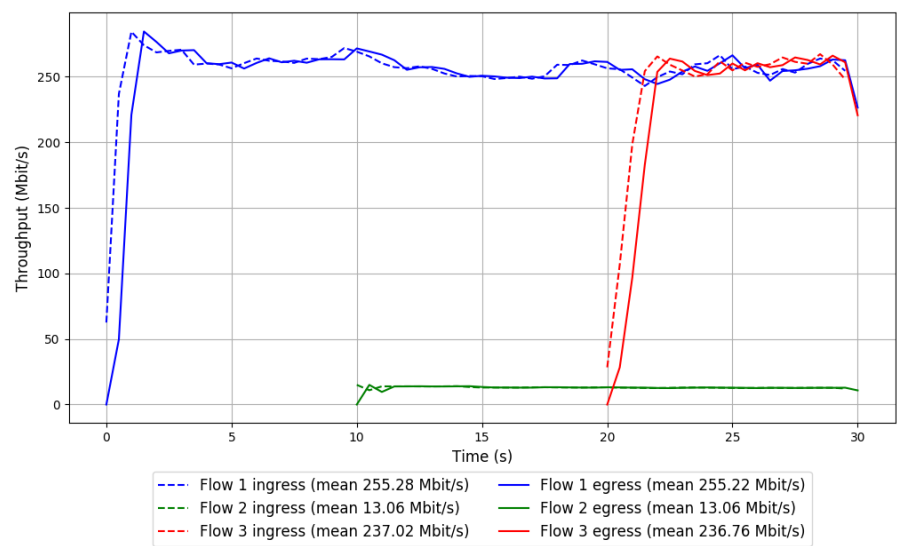
-- Flow 3:

Average throughput: 236.76 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 1.12%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-07 18:52:19

End at: 2018-06-07 18:52:49

Local clock offset: -0.041 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-07 22:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.76 Mbit/s

95th percentile per-packet one-way delay: 61.603 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 208.05 Mbit/s

95th percentile per-packet one-way delay: 55.698 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 207.97 Mbit/s

95th percentile per-packet one-way delay: 62.771 ms

Loss rate: 0.52%

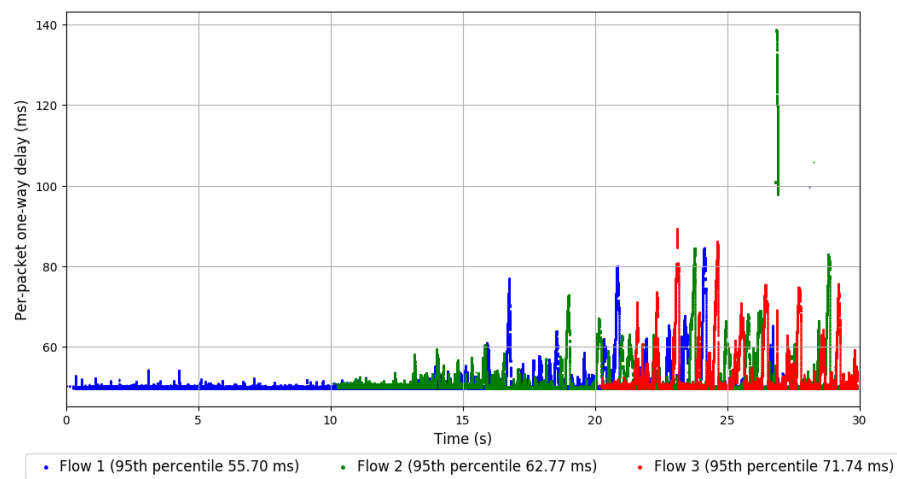
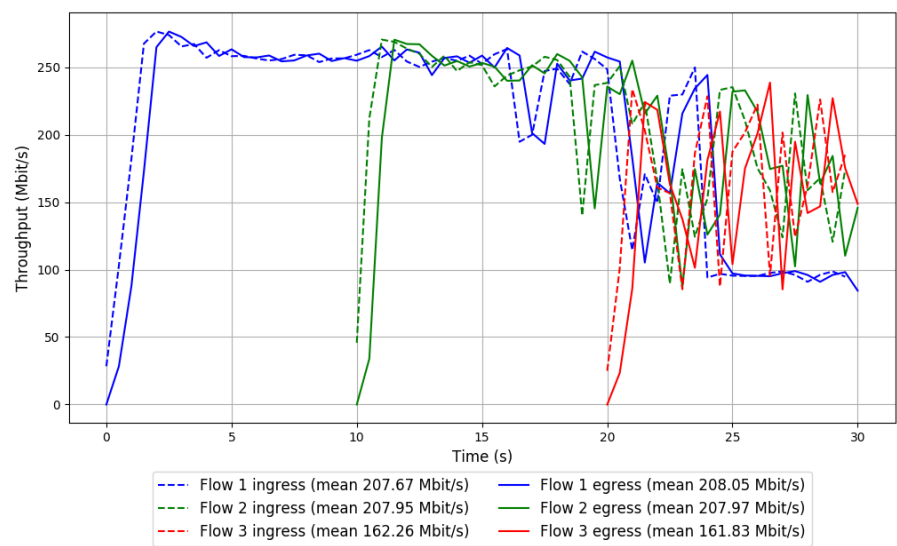
-- Flow 3:

Average throughput: 161.83 Mbit/s

95th percentile per-packet one-way delay: 71.740 ms

Loss rate: 1.28%

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

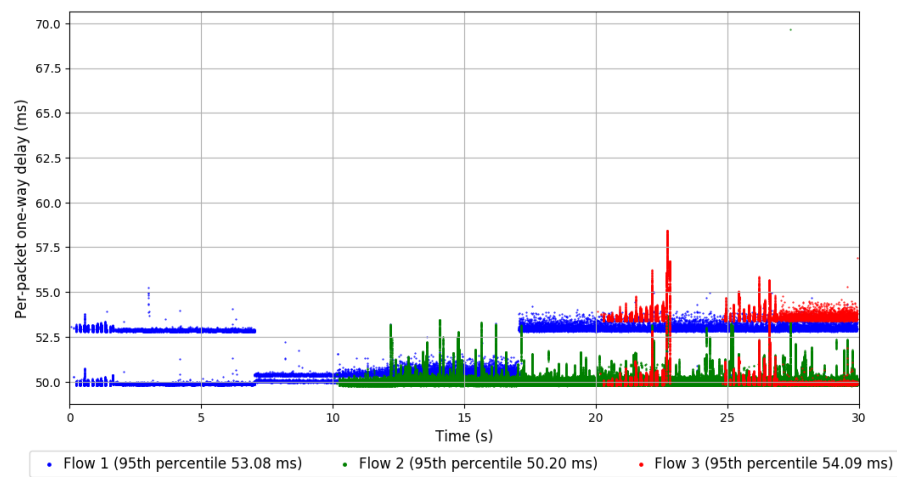
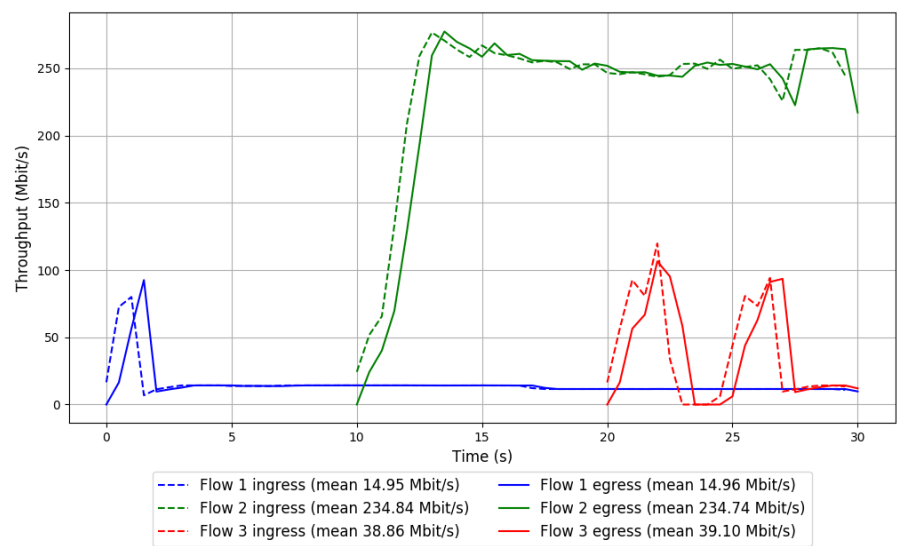


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-07 19:15:48
End at: 2018-06-07 19:16:18
Local clock offset: -0.183 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 183.98 Mbit/s
95th percentile per-packet one-way delay: 52.913 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 14.96 Mbit/s
95th percentile per-packet one-way delay: 53.076 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 234.74 Mbit/s
95th percentile per-packet one-way delay: 50.197 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 54.095 ms
Loss rate: 0.37%

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

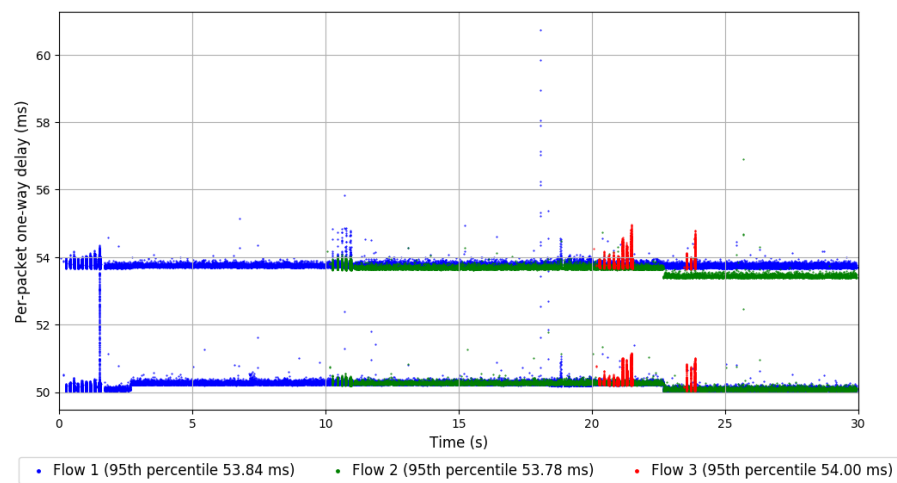
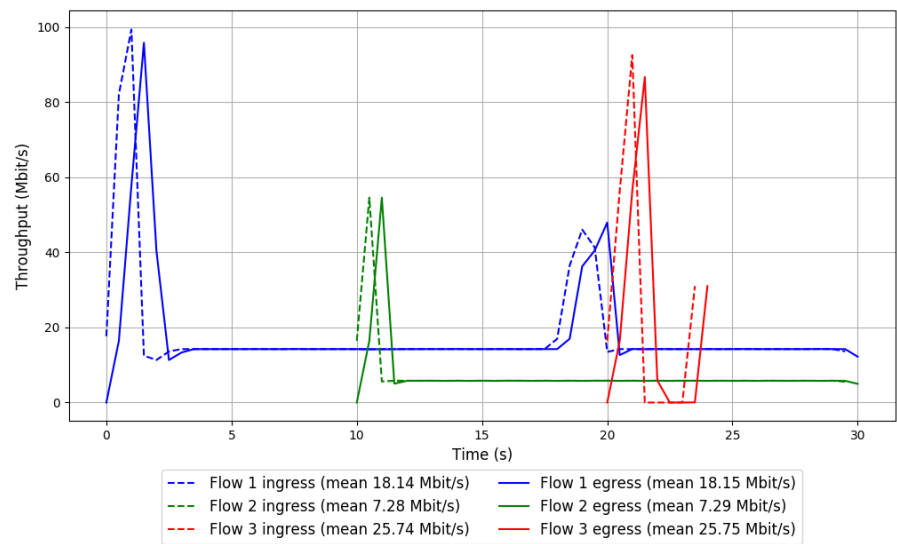


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-07 19:38:23
End at: 2018-06-07 19:38:53
Local clock offset: 0.079 ms
Remote clock offset: -0.436 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 53.856 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 18.15 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 25.75 Mbit/s
95th percentile per-packet one-way delay: 54.003 ms
Loss rate: 0.00%

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

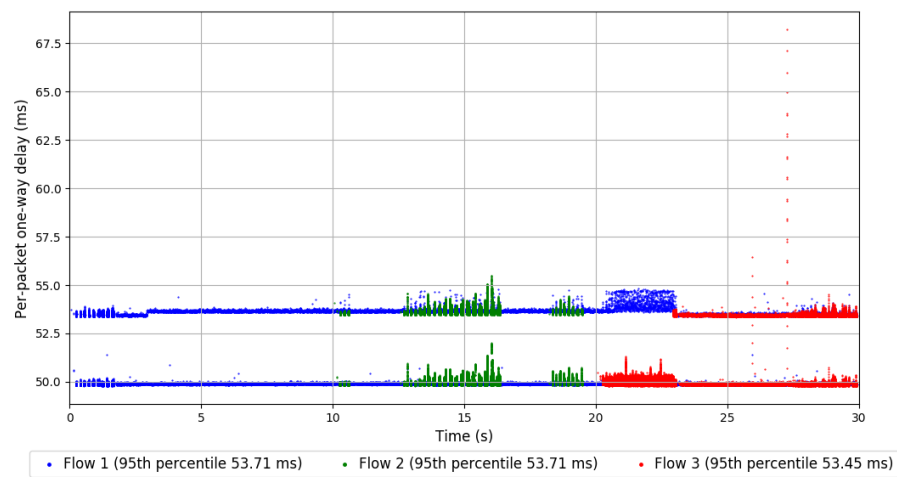
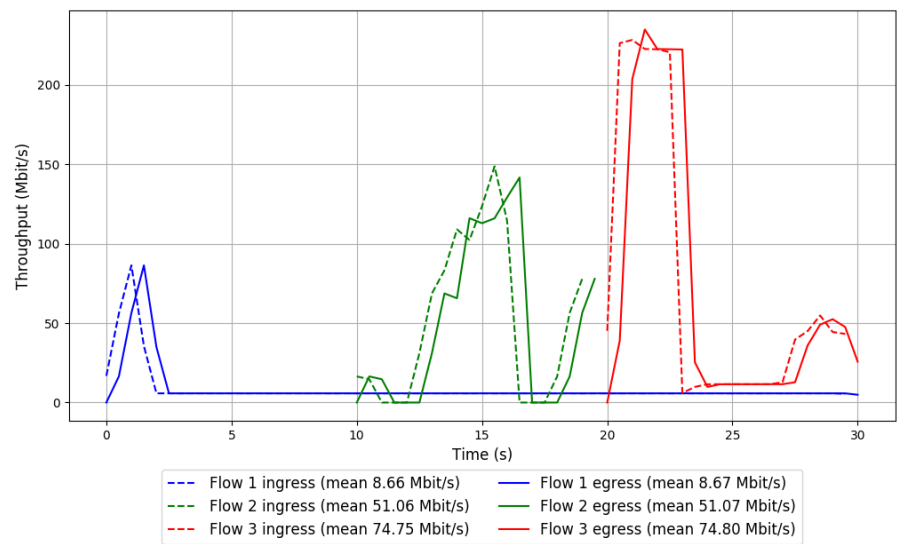


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 20:00:52
End at: 2018-06-07 20:01:22
Local clock offset: -0.247 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 53.647 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 53.713 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.80 Mbit/s
95th percentile per-packet one-way delay: 53.454 ms
Loss rate: 1.17%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 16:34:15

End at: 2018-06-07 16:34:45

Local clock offset: -0.014 ms

Remote clock offset: -0.85 ms

Below is generated by plot.py at 2018-06-07 22:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.99 Mbit/s

95th percentile per-packet one-way delay: 57.291 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 213.38 Mbit/s

95th percentile per-packet one-way delay: 57.168 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 56.531 ms

Loss rate: 0.75%

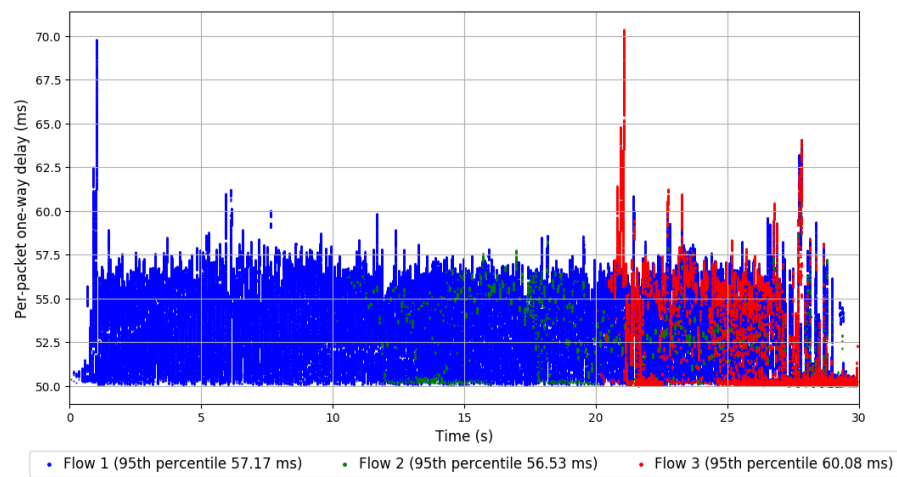
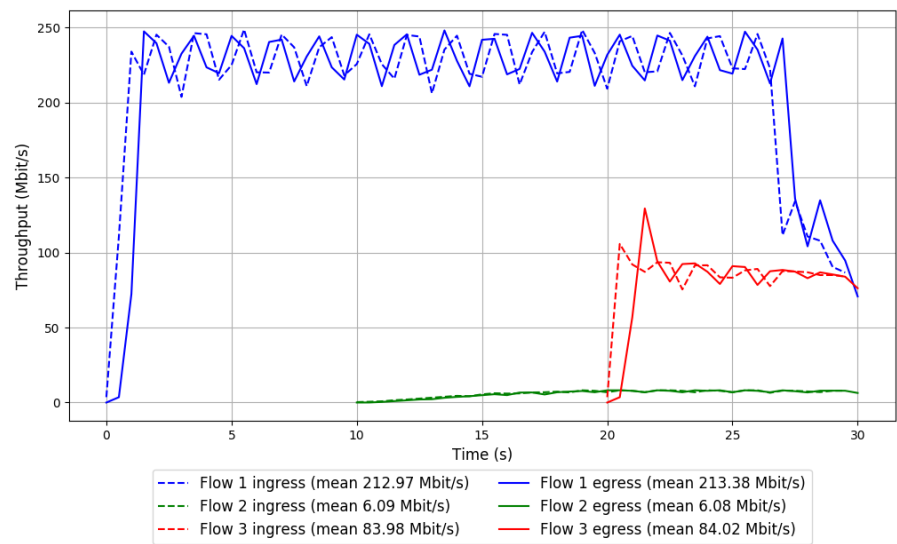
-- Flow 3:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 60.077 ms

Loss rate: 1.01%

Run 1: Report of TCP Vegas — Data Link

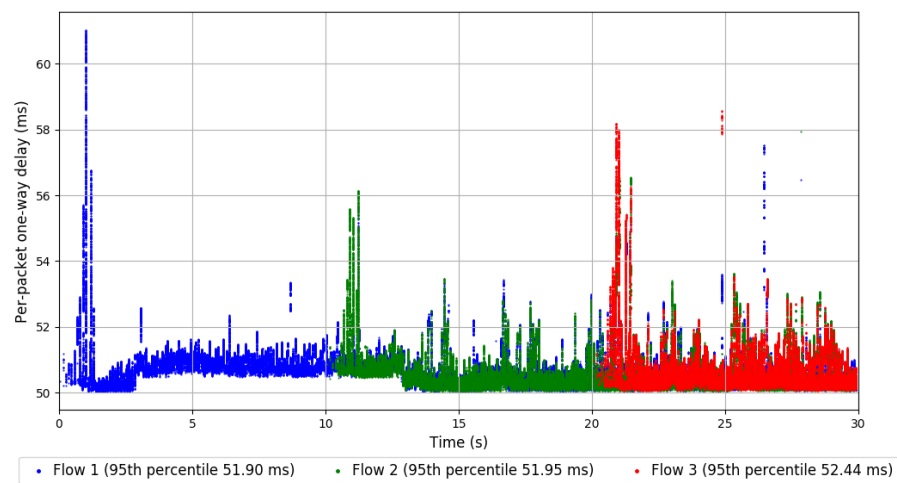
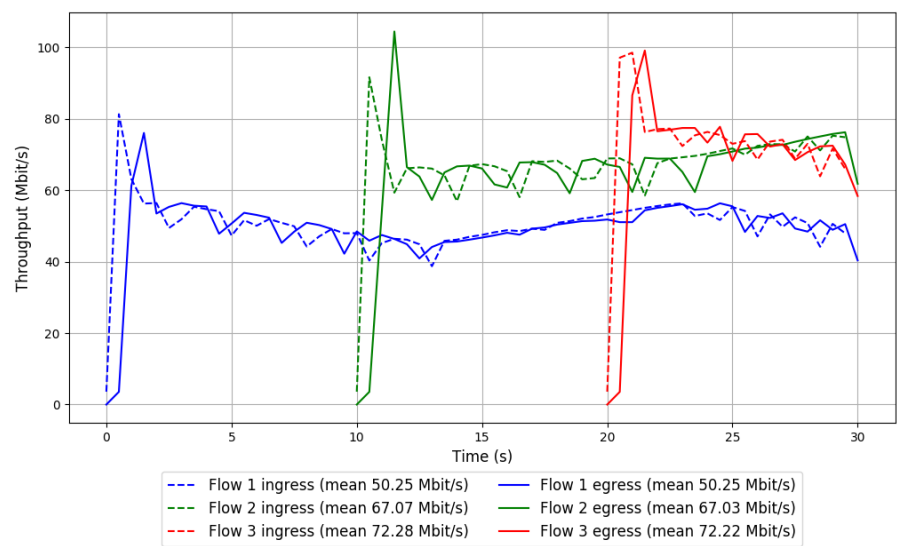


Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 16:57:00
End at: 2018-06-07 16:57:30
Local clock offset: 0.006 ms
Remote clock offset: -0.487 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.62 Mbit/s
95th percentile per-packet one-way delay: 51.998 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 51.896 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 67.03 Mbit/s
95th percentile per-packet one-way delay: 51.950 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 72.22 Mbit/s
95th percentile per-packet one-way delay: 52.440 ms
Loss rate: 0.91%

Run 2: Report of TCP Vegas — Data Link

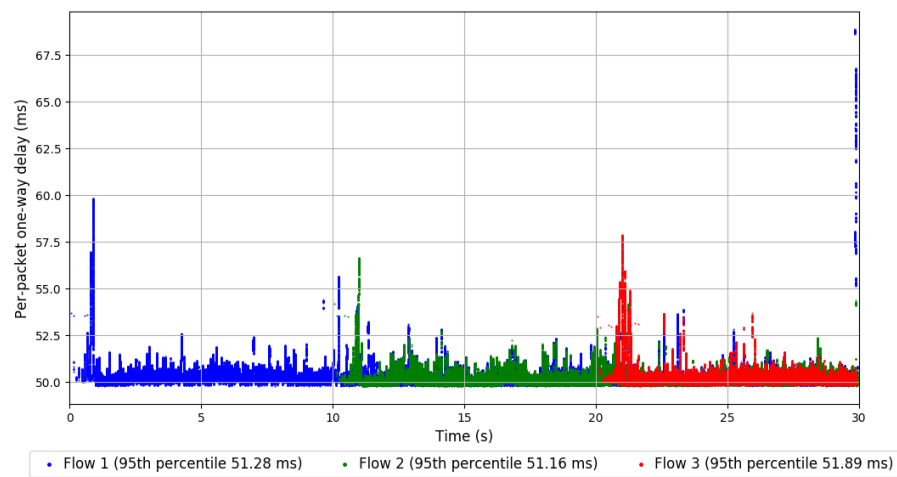
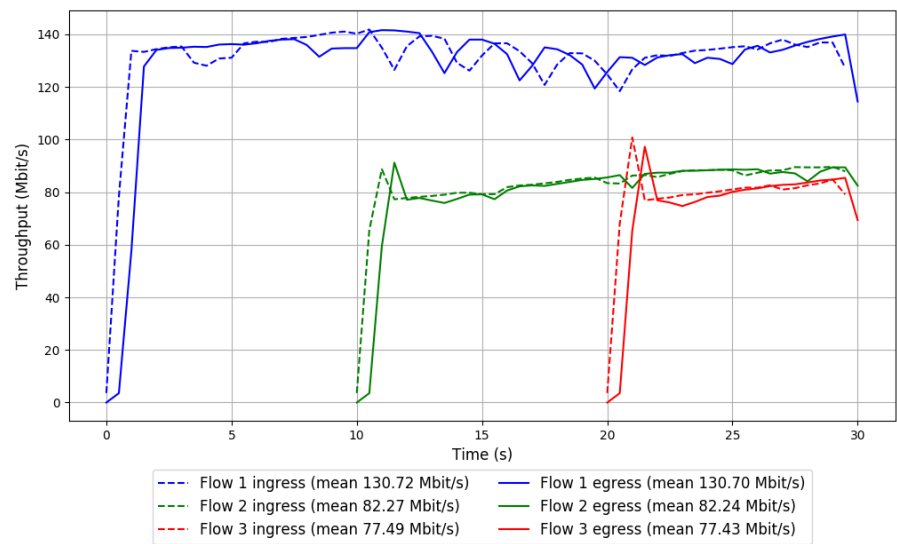


Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 17:19:22
End at: 2018-06-07 17:19:52
Local clock offset: -0.351 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.93 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 130.70 Mbit/s
95th percentile per-packet one-way delay: 51.276 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 51.161 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 77.43 Mbit/s
95th percentile per-packet one-way delay: 51.894 ms
Loss rate: 1.12%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 17:42:33

End at: 2018-06-07 17:43:03

Local clock offset: -0.405 ms

Remote clock offset: 0.453 ms

Below is generated by plot.py at 2018-06-07 22:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.34 Mbit/s

95th percentile per-packet one-way delay: 56.992 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 213.69 Mbit/s

95th percentile per-packet one-way delay: 57.036 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 10.54 Mbit/s

95th percentile per-packet one-way delay: 54.484 ms

Loss rate: 1.10%

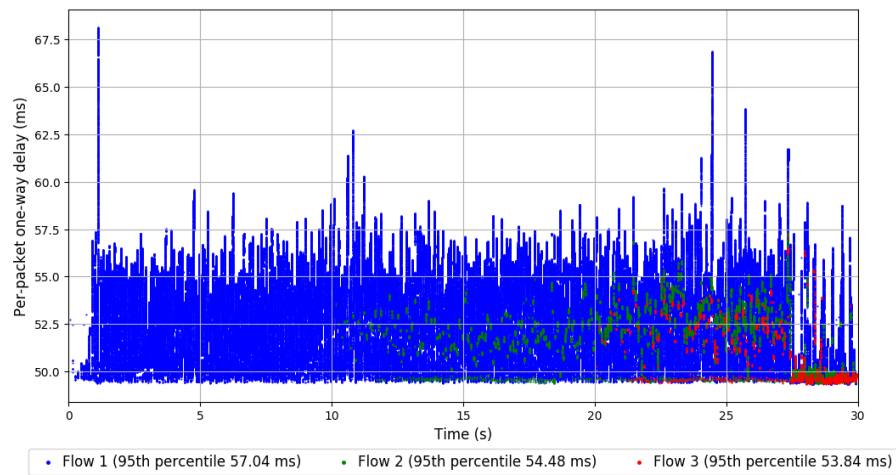
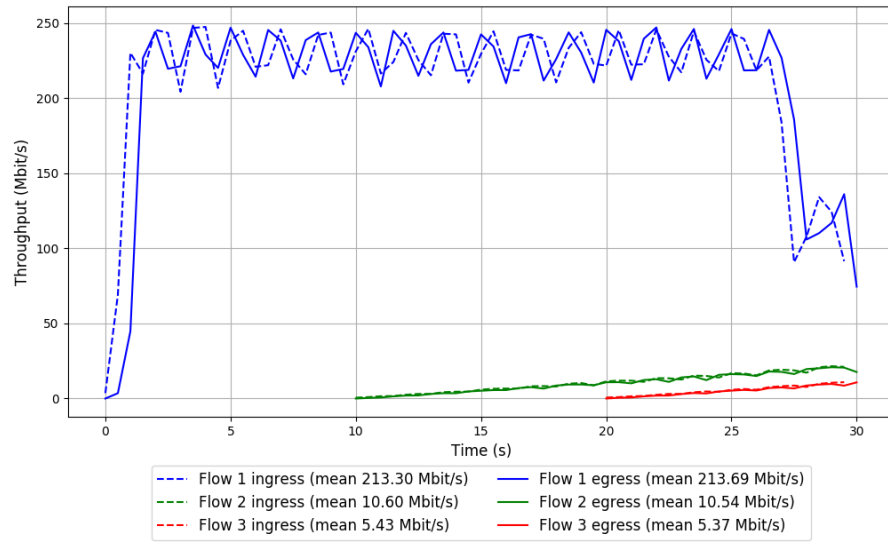
-- Flow 3:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 2.24%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 18:05:28

End at: 2018-06-07 18:05:58

Local clock offset: -0.136 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-06-07 22:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.12 Mbit/s

95th percentile per-packet one-way delay: 55.637 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 54.842 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 54.626 ms

Loss rate: 0.47%

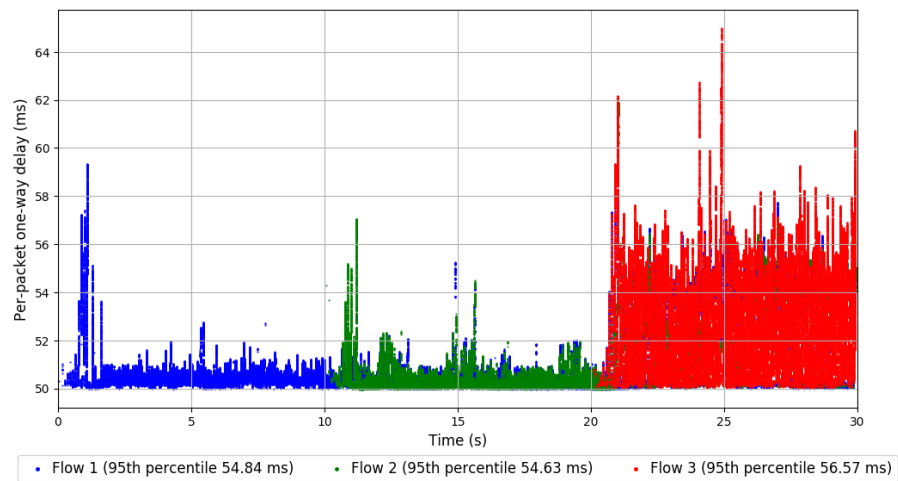
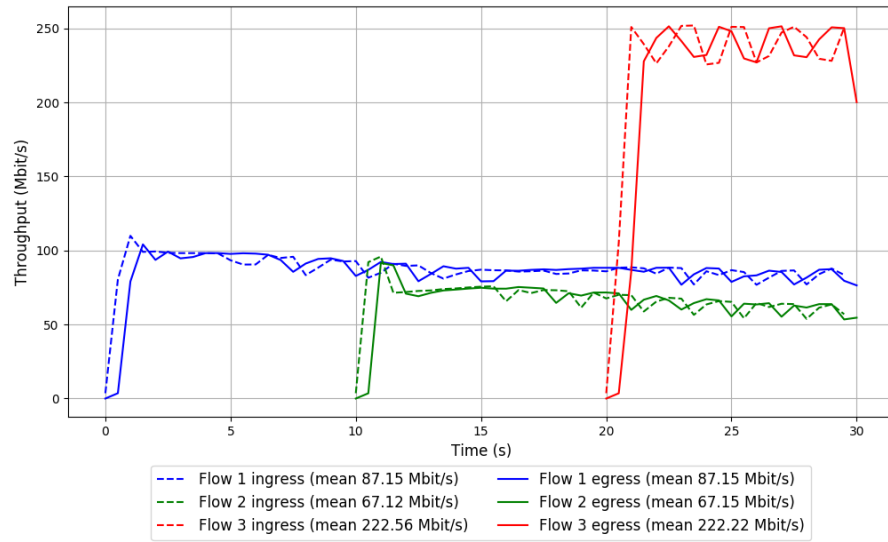
-- Flow 3:

Average throughput: 222.22 Mbit/s

95th percentile per-packet one-way delay: 56.566 ms

Loss rate: 1.13%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-07 18:28:03

End at: 2018-06-07 18:28:33

Local clock offset: -0.048 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2018-06-07 22:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.13 Mbit/s

95th percentile per-packet one-way delay: 51.426 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 51.538 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 0.59%

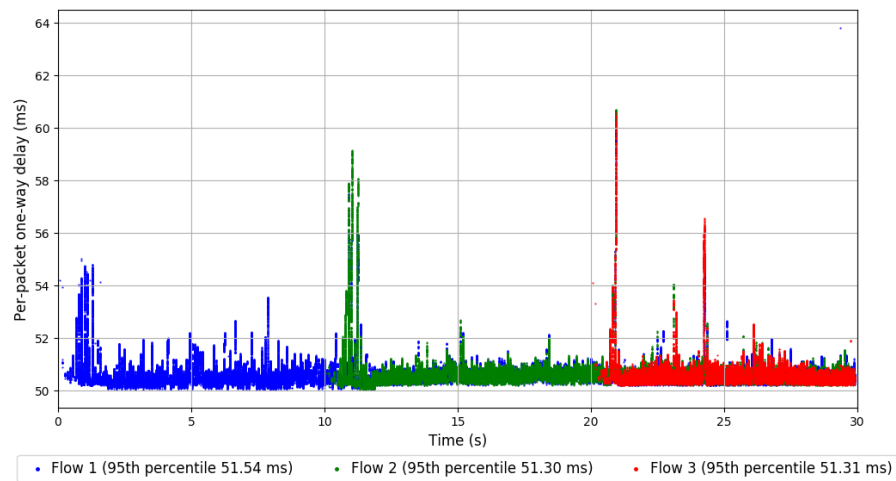
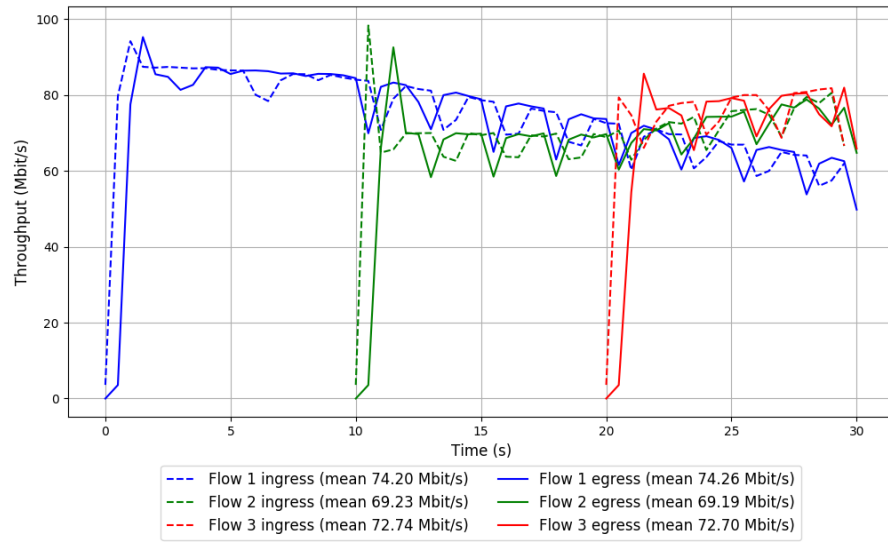
-- Flow 3:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 1.14%

Run 6: Report of TCP Vegas — Data Link

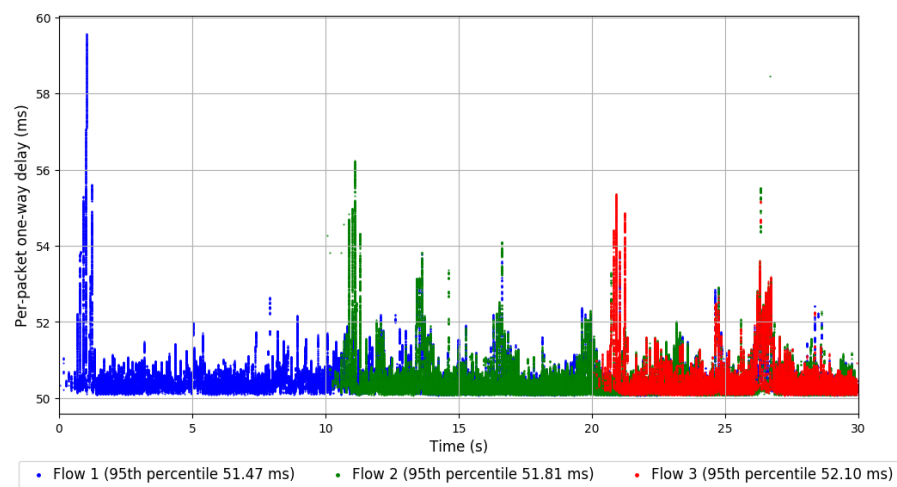
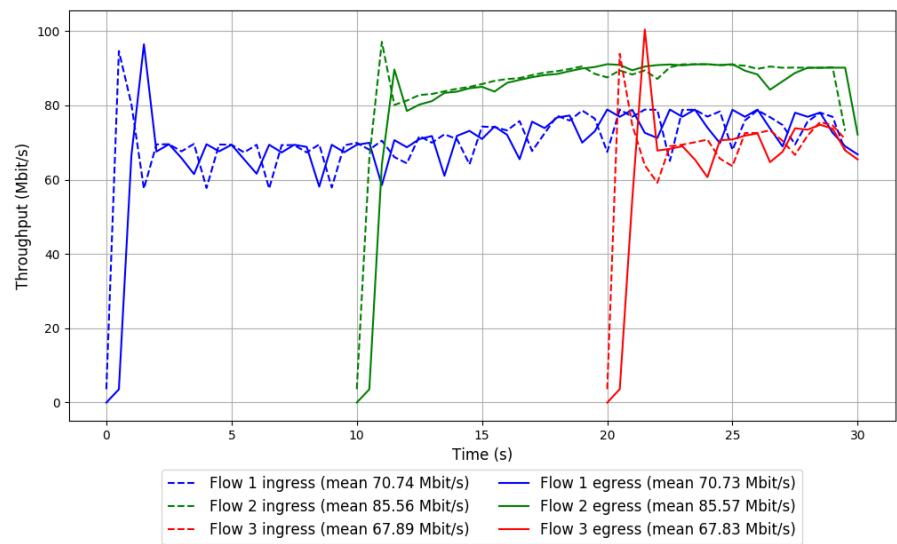


Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 18:51:04
End at: 2018-06-07 18:51:34
Local clock offset: -0.013 ms
Remote clock offset: -0.089 ms

```
# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.89 Mbit/s
95th percentile per-packet one-way delay: 51.674 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 70.73 Mbit/s
95th percentile per-packet one-way delay: 51.467 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 85.57 Mbit/s
95th percentile per-packet one-way delay: 51.810 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 67.83 Mbit/s
95th percentile per-packet one-way delay: 52.098 ms
Loss rate: 1.12%
```

Run 7: Report of TCP Vegas — Data Link

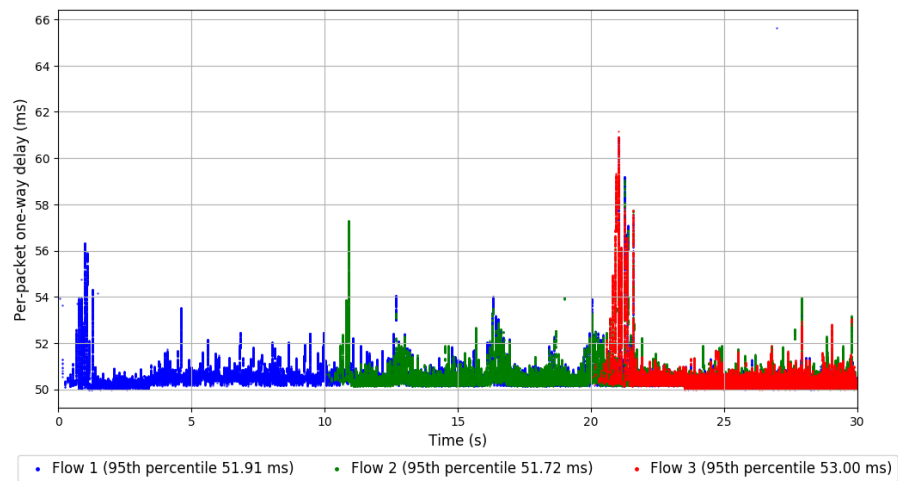
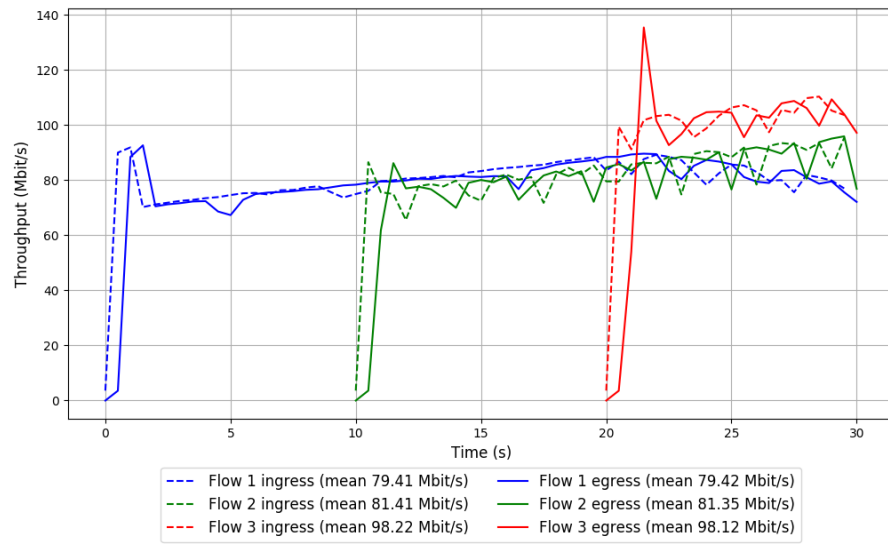


Run 8: Statistics of TCP Vegas

Start at: 2018-06-07 19:14:32
End at: 2018-06-07 19:15:02
Local clock offset: 0.277 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 165.86 Mbit/s
95th percentile per-packet one-way delay: 51.900 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 51.912 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 81.35 Mbit/s
95th percentile per-packet one-way delay: 51.723 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 98.12 Mbit/s
95th percentile per-packet one-way delay: 53.001 ms
Loss rate: 1.14%

Run 8: Report of TCP Vegas — Data Link

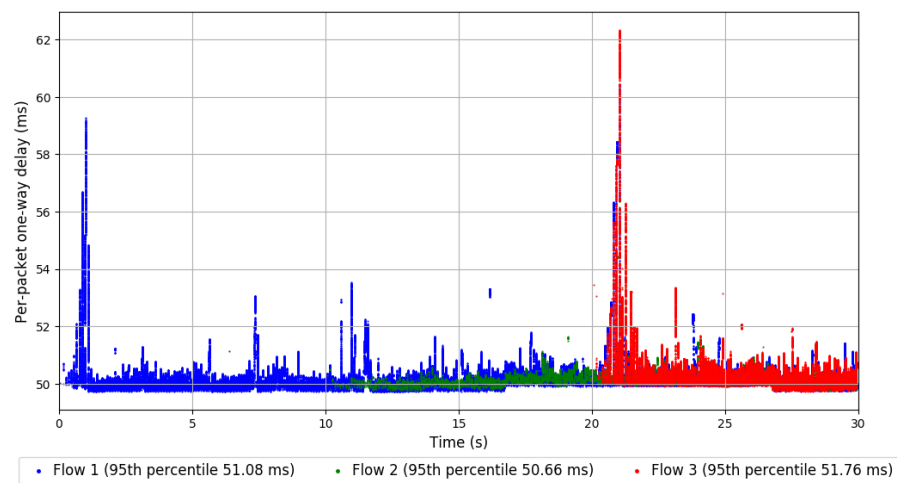
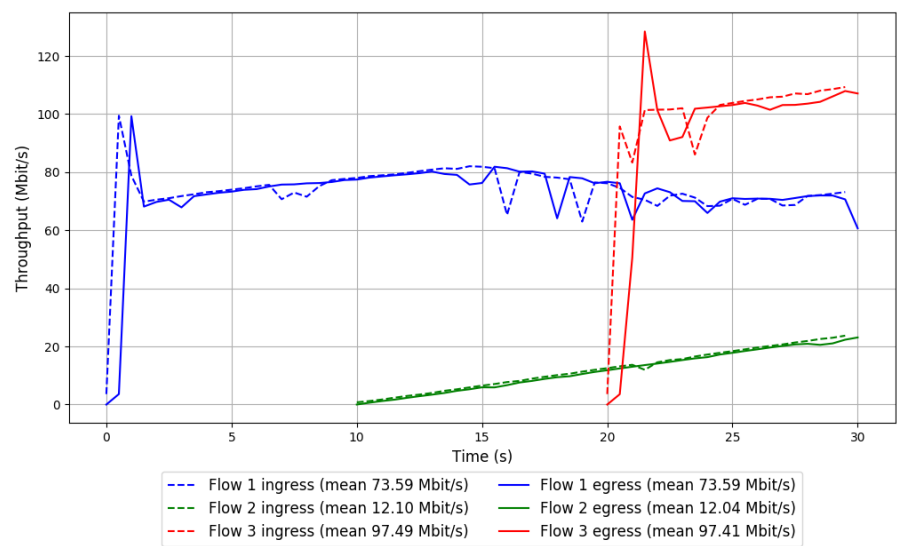


Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 19:37:09
End at: 2018-06-07 19:37:39
Local clock offset: -0.165 ms
Remote clock offset: -0.405 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.73 Mbit/s
95th percentile per-packet one-way delay: 51.226 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 51.759 ms
Loss rate: 1.12%

Run 9: Report of TCP Vegas — Data Link

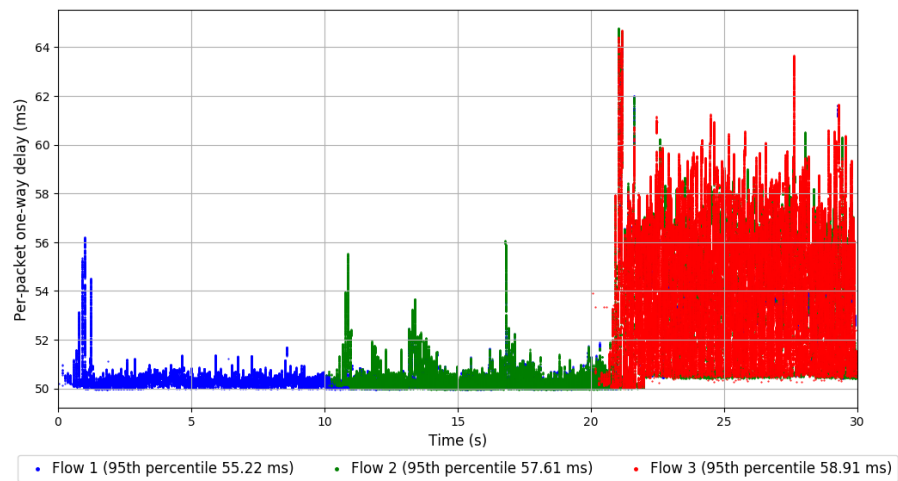
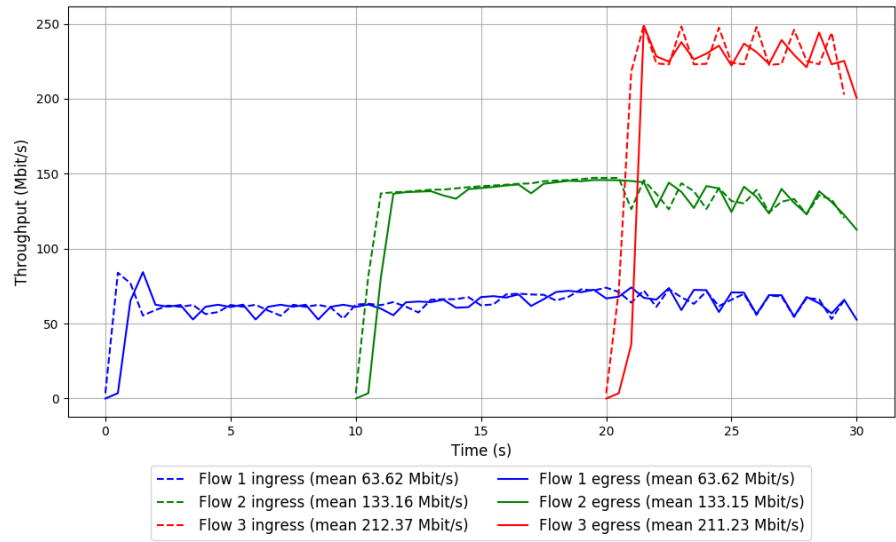


Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 19:59:33
End at: 2018-06-07 20:00:03
Local clock offset: -0.2 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-06-07 22:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 221.79 Mbit/s
95th percentile per-packet one-way delay: 58.040 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 63.62 Mbit/s
95th percentile per-packet one-way delay: 55.217 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 133.15 Mbit/s
95th percentile per-packet one-way delay: 57.610 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 211.23 Mbit/s
95th percentile per-packet one-way delay: 58.915 ms
Loss rate: 1.09%

Run 10: Report of TCP Vegas — Data Link

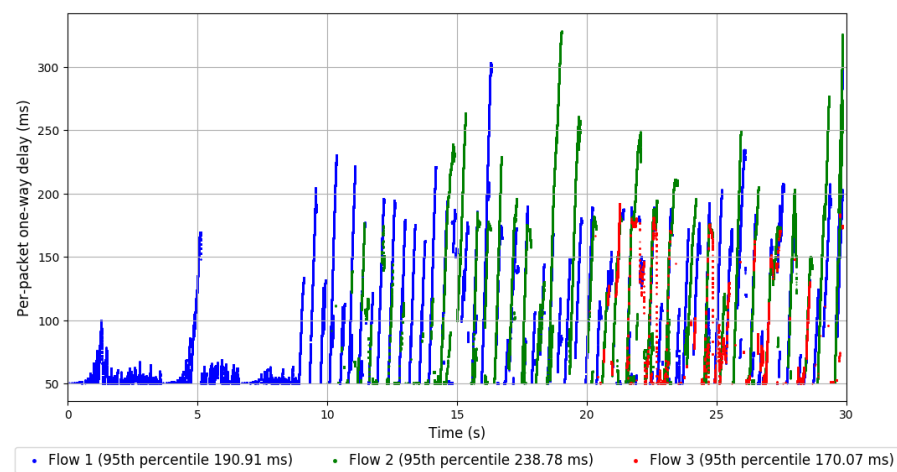
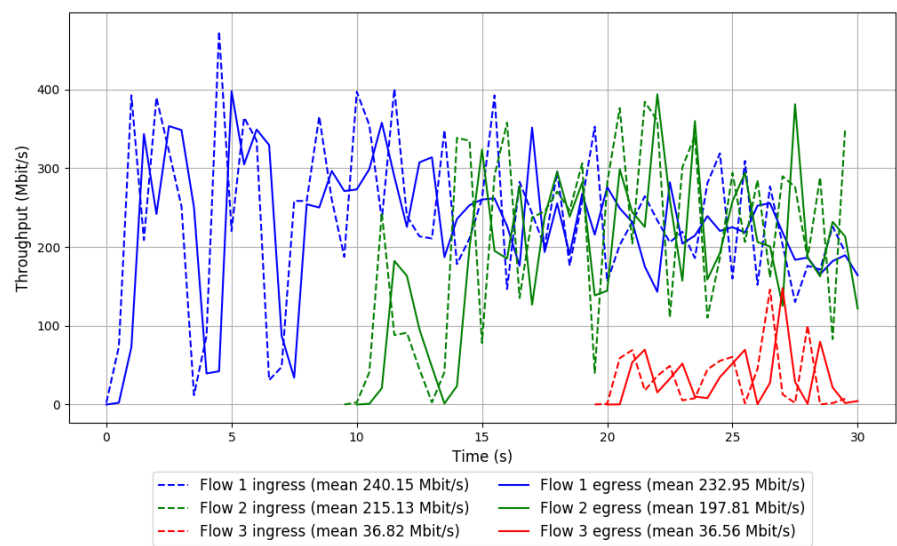


Run 1: Statistics of Verus

Start at: 2018-06-07 16:31:21
End at: 2018-06-07 16:31:51
Local clock offset: -0.057 ms
Remote clock offset: -1.131 ms

Below is generated by plot.py at 2018-06-07 22:26:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.64 Mbit/s
95th percentile per-packet one-way delay: 211.945 ms
Loss rate: 4.36%
-- Flow 1:
Average throughput: 232.95 Mbit/s
95th percentile per-packet one-way delay: 190.907 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 197.81 Mbit/s
95th percentile per-packet one-way delay: 238.785 ms
Loss rate: 7.78%
-- Flow 3:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 170.067 ms
Loss rate: 1.58%

Run 1: Report of Verus — Data Link

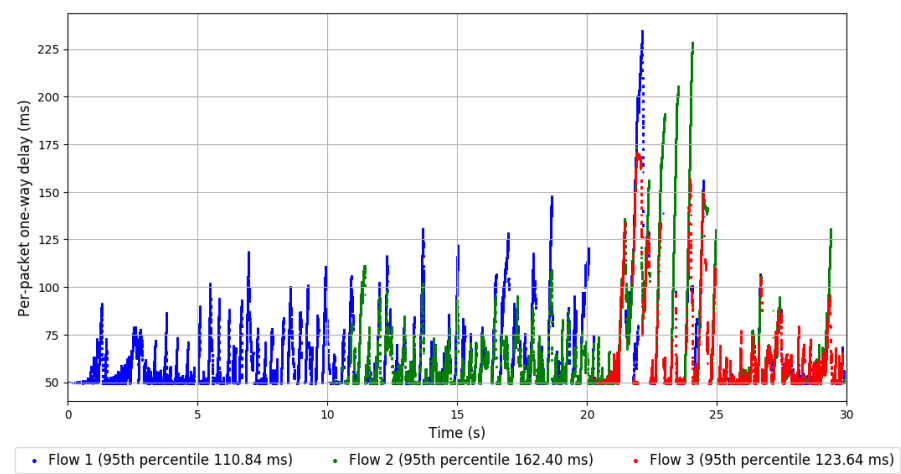
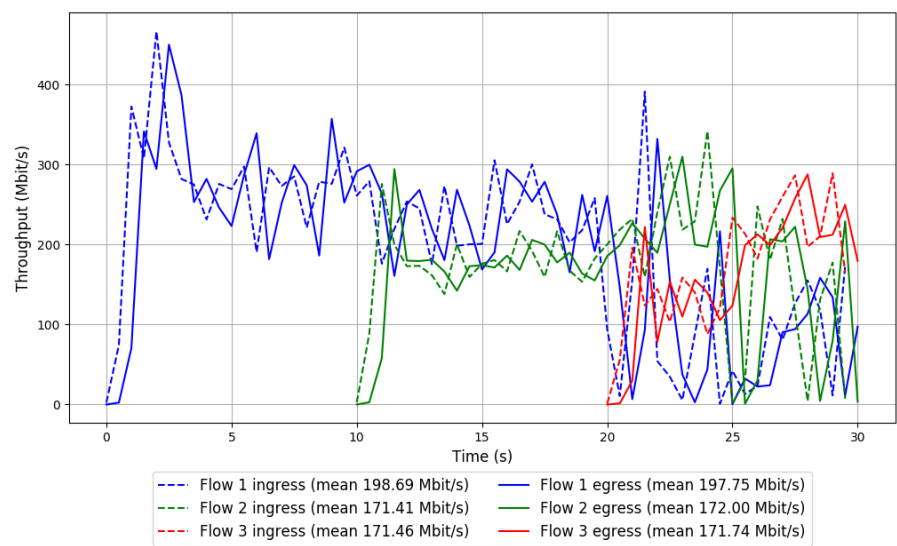


Run 2: Statistics of Verus

Start at: 2018-06-07 16:54:06
End at: 2018-06-07 16:54:36
Local clock offset: -0.194 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2018-06-07 22:26:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 368.18 Mbit/s
95th percentile per-packet one-way delay: 130.688 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 197.75 Mbit/s
95th percentile per-packet one-way delay: 110.841 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 172.00 Mbit/s
95th percentile per-packet one-way delay: 162.400 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 171.74 Mbit/s
95th percentile per-packet one-way delay: 123.641 ms
Loss rate: 1.57%

Run 2: Report of Verus — Data Link

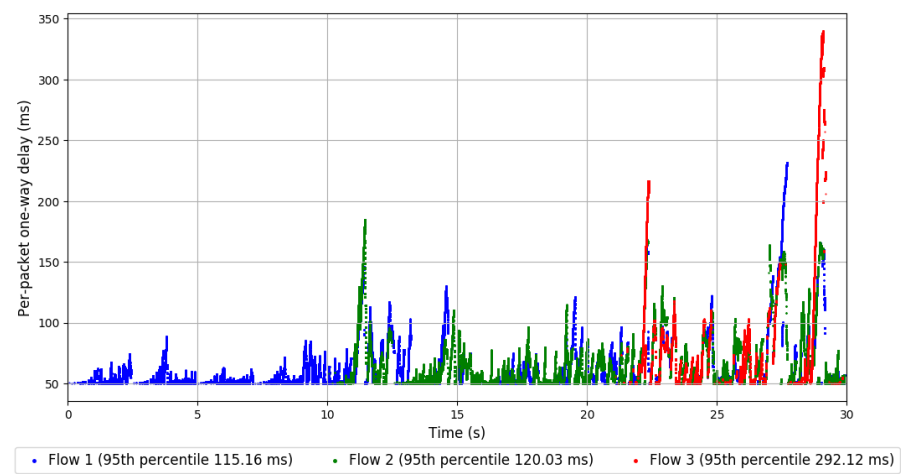
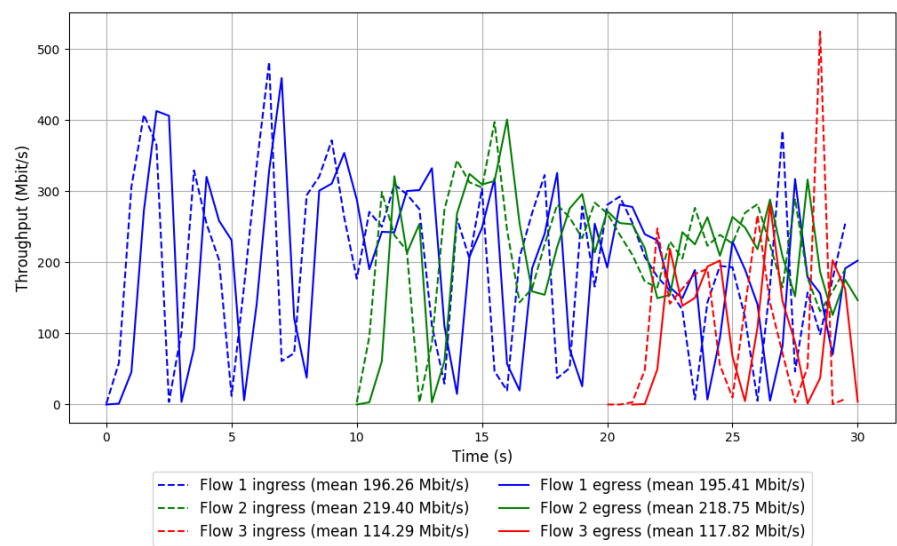


Run 3: Statistics of Verus

Start at: 2018-06-07 17:16:29
End at: 2018-06-07 17:16:59
Local clock offset: -0.082 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-06-07 22:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.26 Mbit/s
95th percentile per-packet one-way delay: 129.928 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 195.41 Mbit/s
95th percentile per-packet one-way delay: 115.158 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 218.75 Mbit/s
95th percentile per-packet one-way delay: 120.030 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 117.82 Mbit/s
95th percentile per-packet one-way delay: 292.125 ms
Loss rate: 8.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-07 17:39:36

End at: 2018-06-07 17:40:06

Local clock offset: 0.141 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2018-06-07 22:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.80 Mbit/s

95th percentile per-packet one-way delay: 105.607 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 198.62 Mbit/s

95th percentile per-packet one-way delay: 82.908 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 174.52 Mbit/s

95th percentile per-packet one-way delay: 123.709 ms

Loss rate: 0.78%

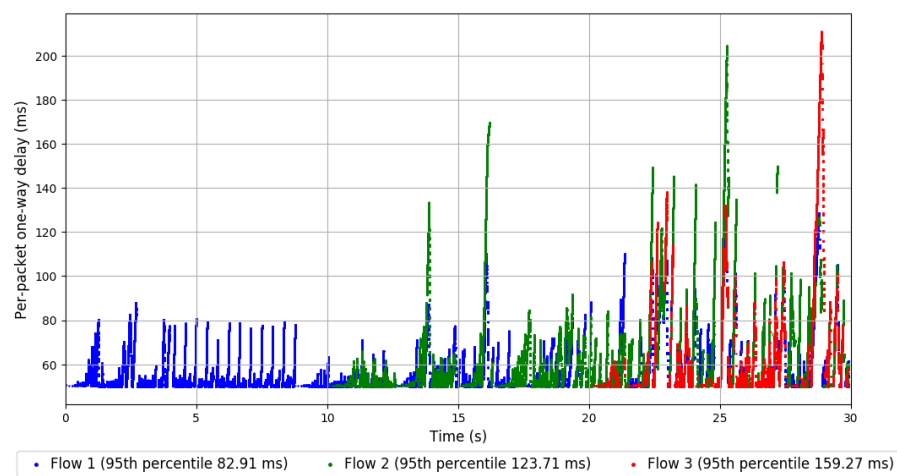
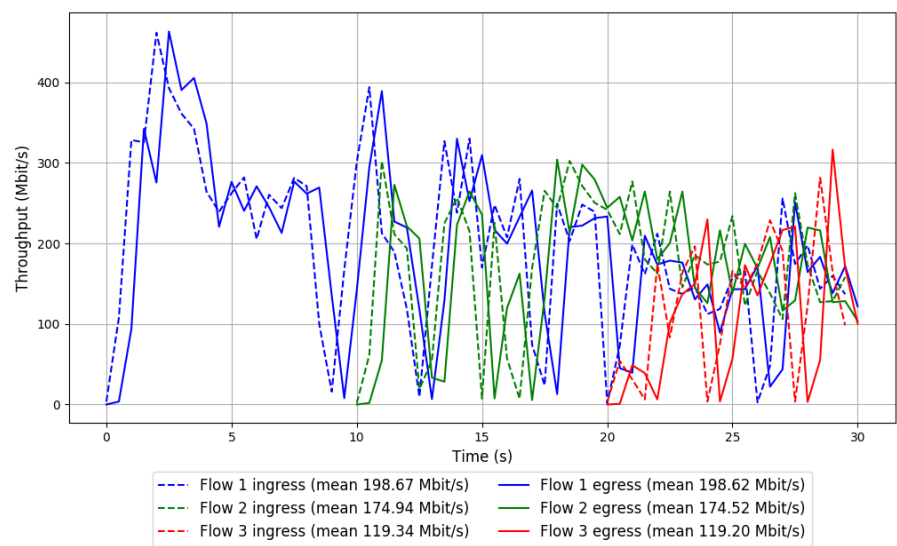
-- Flow 3:

Average throughput: 119.20 Mbit/s

95th percentile per-packet one-way delay: 159.269 ms

Loss rate: 1.16%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-07 18:02:36

End at: 2018-06-07 18:03:06

Local clock offset: 0.323 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-06-07 22:27:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.99 Mbit/s

95th percentile per-packet one-way delay: 176.194 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 195.39 Mbit/s

95th percentile per-packet one-way delay: 115.548 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 197.41 Mbit/s

95th percentile per-packet one-way delay: 185.185 ms

Loss rate: 3.40%

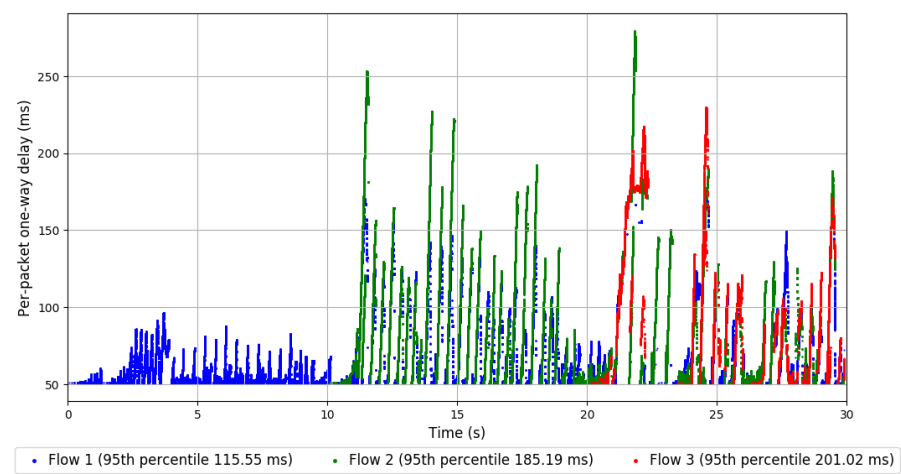
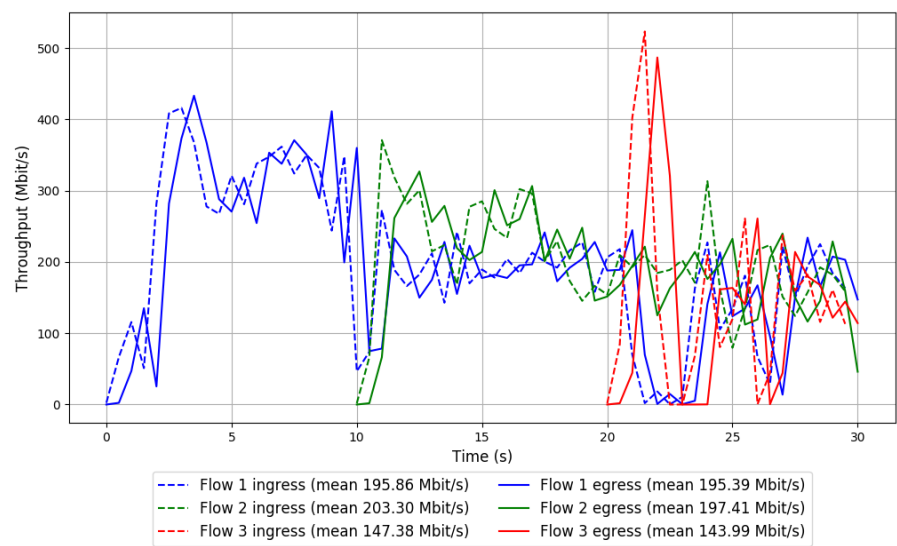
-- Flow 3:

Average throughput: 143.99 Mbit/s

95th percentile per-packet one-way delay: 201.024 ms

Loss rate: 3.09%

Run 5: Report of Verus — Data Link

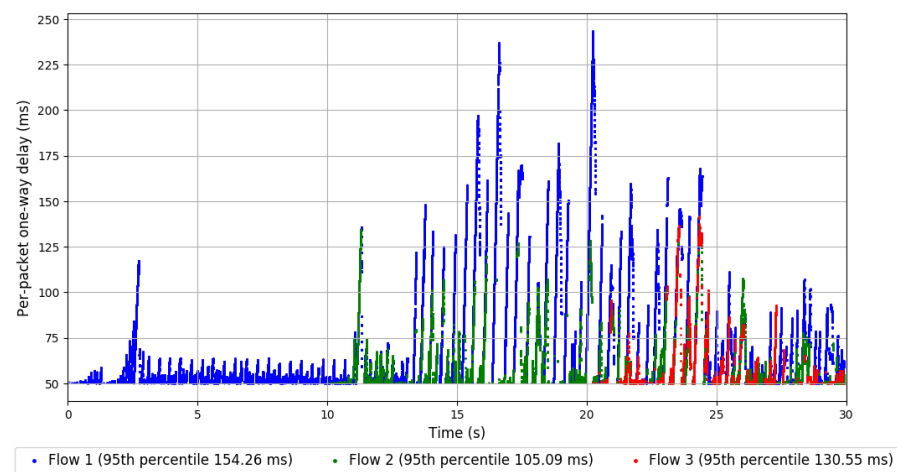
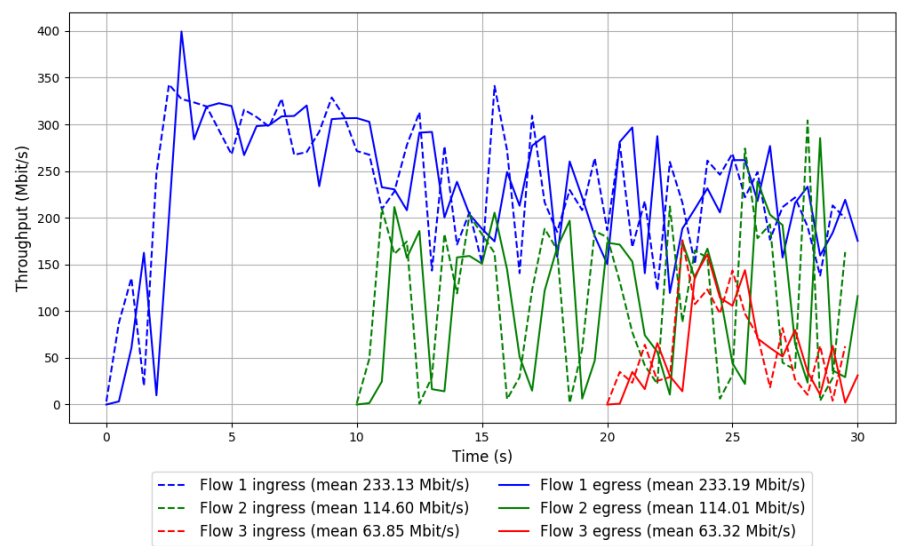


Run 6: Statistics of Verus

Start at: 2018-06-07 18:25:14
End at: 2018-06-07 18:25:44
Local clock offset: -0.116 ms
Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-06-07 22:27:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.49 Mbit/s
95th percentile per-packet one-way delay: 140.923 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 233.19 Mbit/s
95th percentile per-packet one-way delay: 154.256 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 114.01 Mbit/s
95th percentile per-packet one-way delay: 105.094 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 130.551 ms
Loss rate: 2.64%

Run 6: Report of Verus — Data Link

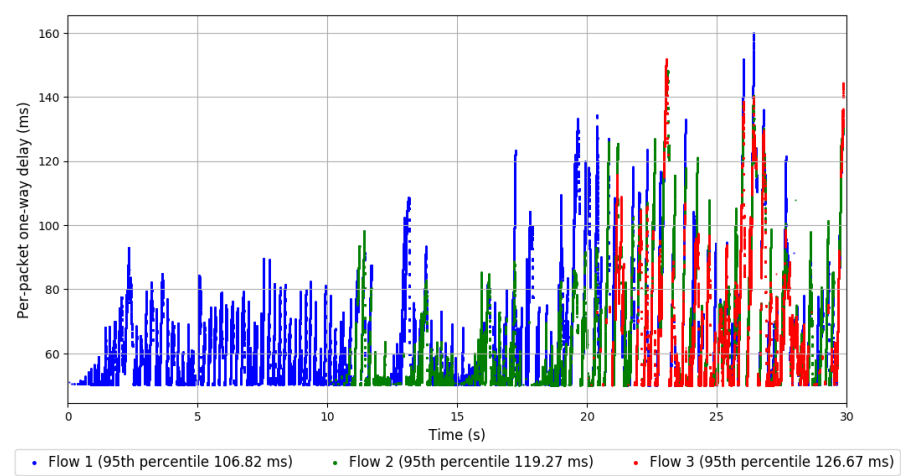
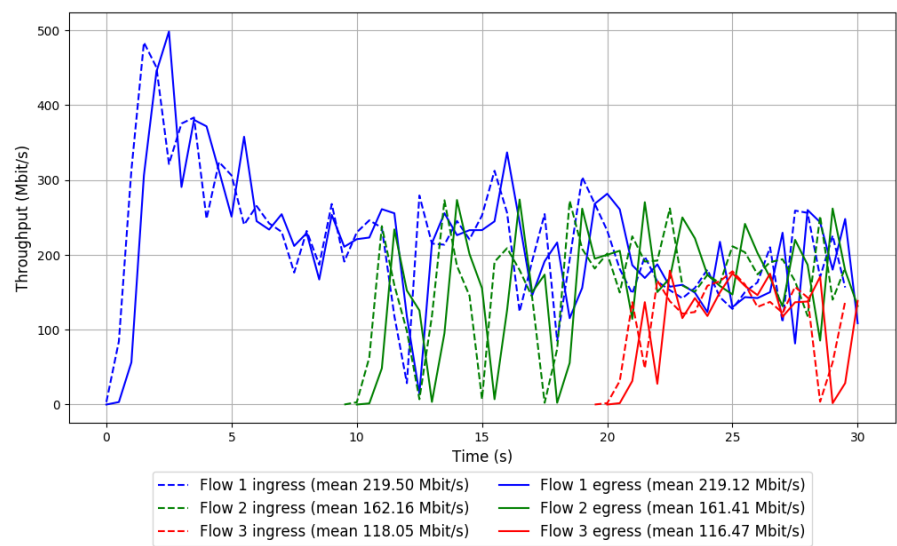


Run 7: Statistics of Verus

Start at: 2018-06-07 18:48:08
End at: 2018-06-07 18:48:38
Local clock offset: -0.056 ms
Remote clock offset: -0.208 ms

Below is generated by plot.py at 2018-06-07 22:29:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 364.97 Mbit/s
95th percentile per-packet one-way delay: 113.541 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 219.12 Mbit/s
95th percentile per-packet one-way delay: 106.816 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 161.41 Mbit/s
95th percentile per-packet one-way delay: 119.274 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 116.47 Mbit/s
95th percentile per-packet one-way delay: 126.665 ms
Loss rate: 1.24%

Run 7: Report of Verus — Data Link

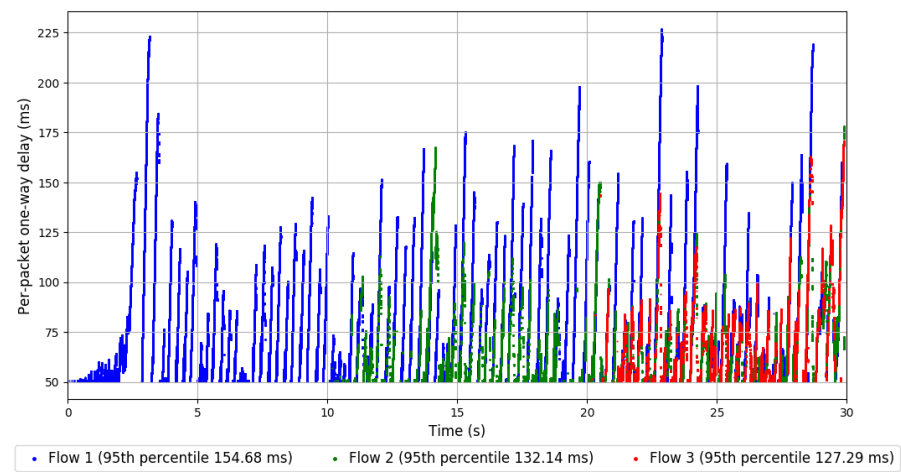
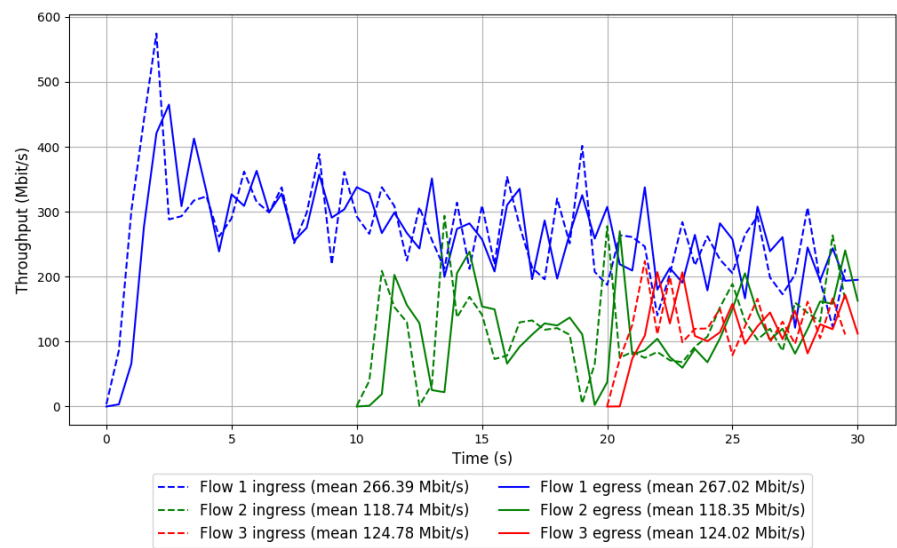


Run 8: Statistics of Verus

Start at: 2018-06-07 19:11:37
End at: 2018-06-07 19:12:07
Local clock offset: 0.038 ms
Remote clock offset: -0.603 ms

Below is generated by plot.py at 2018-06-07 22:30:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 386.14 Mbit/s
95th percentile per-packet one-way delay: 148.927 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 267.02 Mbit/s
95th percentile per-packet one-way delay: 154.676 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 118.35 Mbit/s
95th percentile per-packet one-way delay: 132.137 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 124.02 Mbit/s
95th percentile per-packet one-way delay: 127.287 ms
Loss rate: 1.17%

Run 8: Report of Verus — Data Link

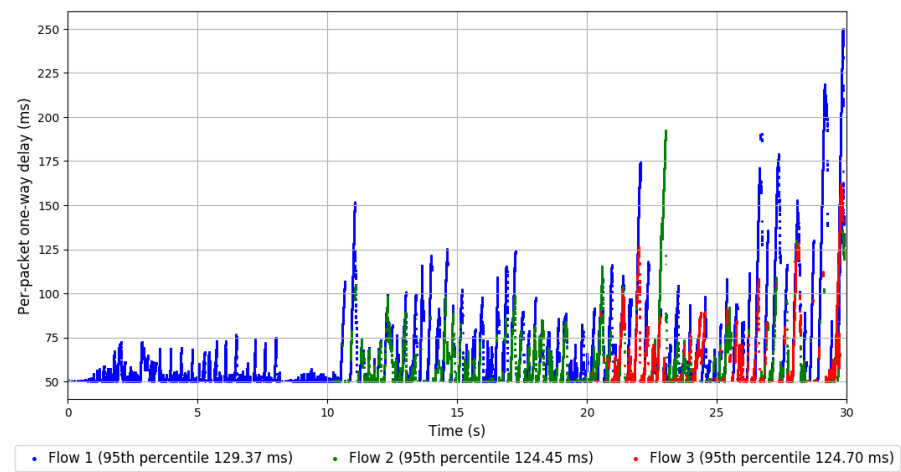
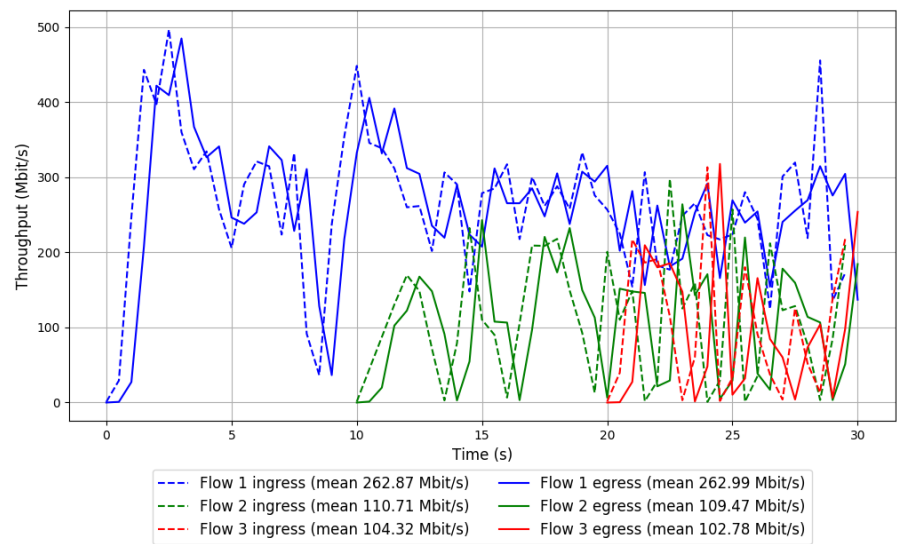


Run 9: Statistics of Verus

Start at: 2018-06-07 19:34:16
End at: 2018-06-07 19:34:46
Local clock offset: 0.129 ms
Remote clock offset: -0.487 ms

Below is generated by plot.py at 2018-06-07 22:32:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 369.45 Mbit/s
95th percentile per-packet one-way delay: 126.840 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 262.99 Mbit/s
95th percentile per-packet one-way delay: 129.365 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 124.449 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 102.78 Mbit/s
95th percentile per-packet one-way delay: 124.696 ms
Loss rate: 0.56%

Run 9: Report of Verus — Data Link

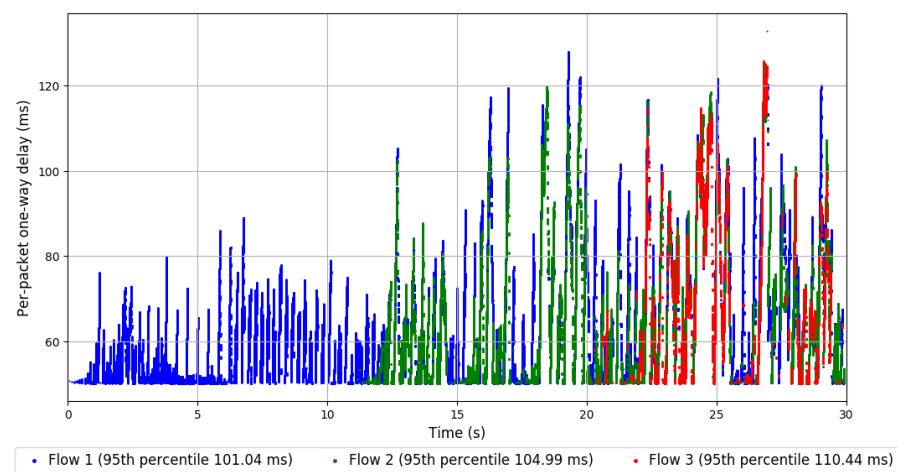
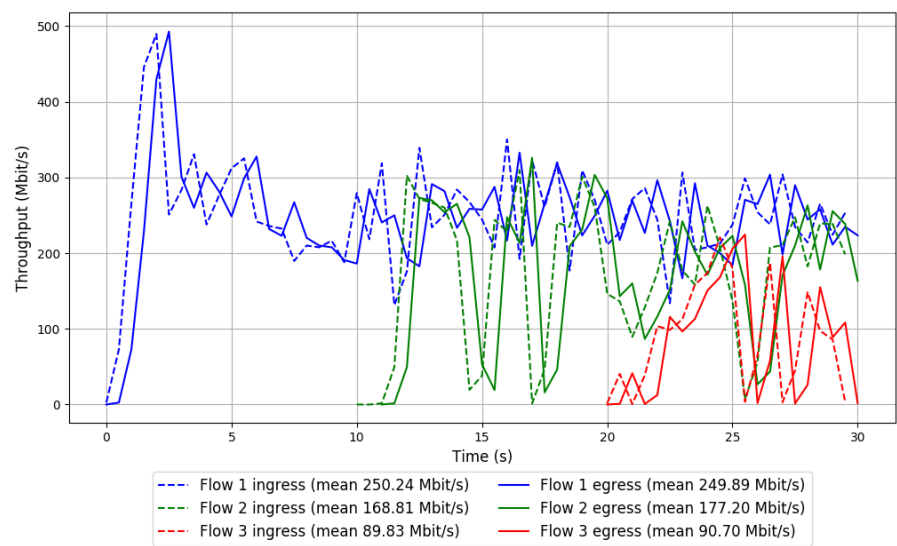


Run 10: Statistics of Verus

Start at: 2018-06-07 19:56:40
End at: 2018-06-07 19:57:10
Local clock offset: 0.259 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-07 22:32:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 391.35 Mbit/s
95th percentile per-packet one-way delay: 103.800 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 249.89 Mbit/s
95th percentile per-packet one-way delay: 101.044 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 177.20 Mbit/s
95th percentile per-packet one-way delay: 104.988 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 110.443 ms
Loss rate: 0.11%

Run 10: Report of Verus — Data Link

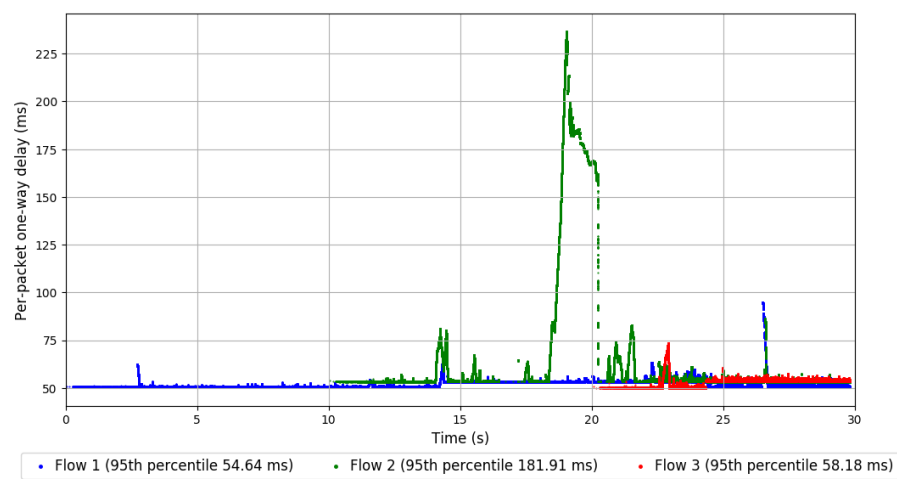
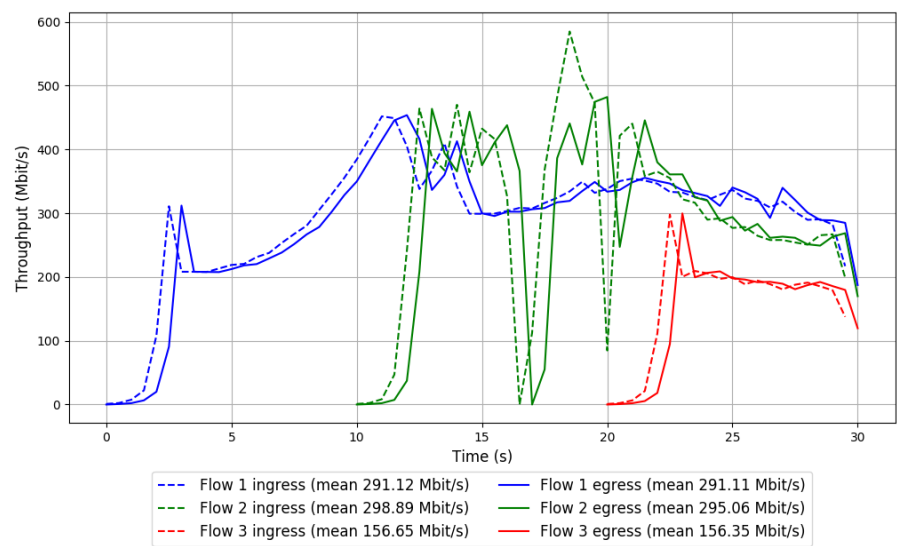


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 16:44:58
End at: 2018-06-07 16:45:28
Local clock offset: 0.114 ms
Remote clock offset: -0.891 ms

Below is generated by plot.py at 2018-06-07 22:36:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 538.19 Mbit/s
95th percentile per-packet one-way delay: 82.157 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 291.11 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 295.06 Mbit/s
95th percentile per-packet one-way delay: 181.909 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 156.35 Mbit/s
95th percentile per-packet one-way delay: 58.181 ms
Loss rate: 1.21%

Run 1: Report of PCC-Vivace — Data Link

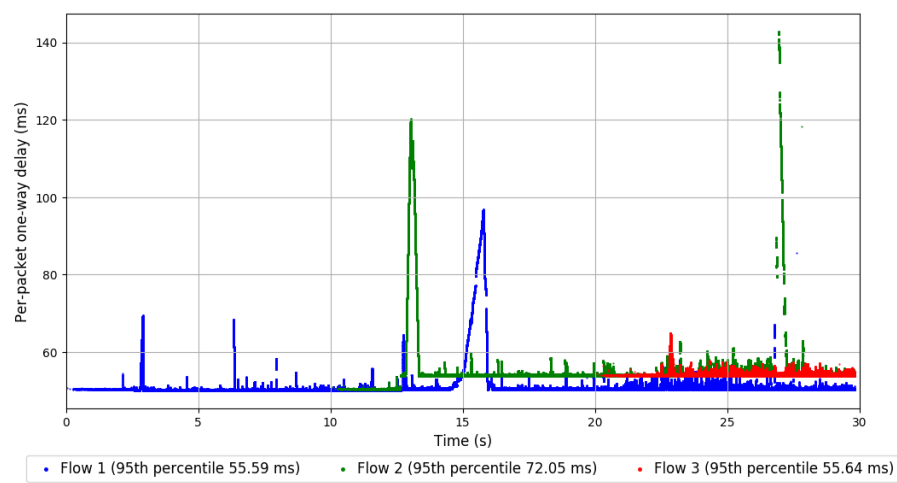
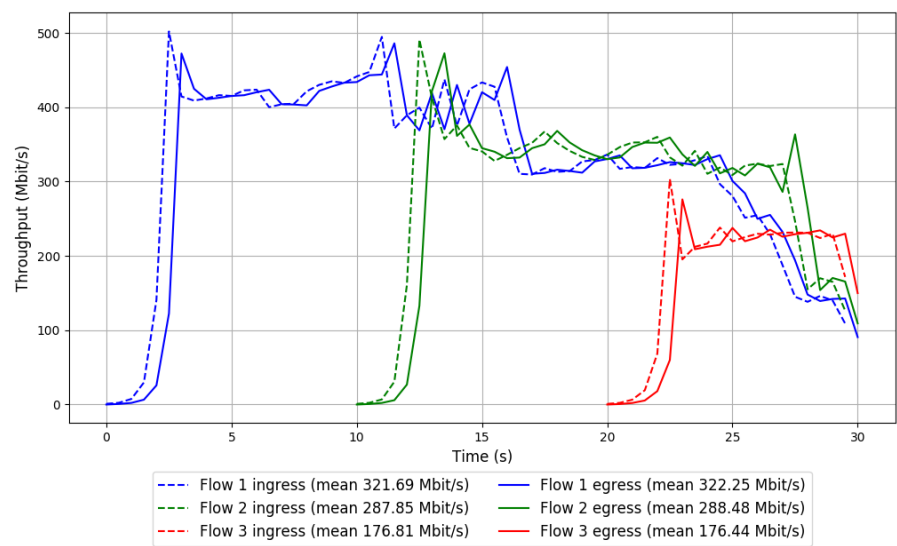


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 17:07:20
End at: 2018-06-07 17:07:50
Local clock offset: 0.068 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-06-07 22:36:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 571.51 Mbit/s
95th percentile per-packet one-way delay: 58.593 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 322.25 Mbit/s
95th percentile per-packet one-way delay: 55.586 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 288.48 Mbit/s
95th percentile per-packet one-way delay: 72.045 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 176.44 Mbit/s
95th percentile per-packet one-way delay: 55.638 ms
Loss rate: 1.27%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 17:30:28

End at: 2018-06-07 17:30:58

Local clock offset: 0.057 ms

Remote clock offset: 0.482 ms

Below is generated by plot.py at 2018-06-07 22:36:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 519.76 Mbit/s

95th percentile per-packet one-way delay: 73.652 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 308.03 Mbit/s

95th percentile per-packet one-way delay: 104.282 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 223.31 Mbit/s

95th percentile per-packet one-way delay: 54.609 ms

Loss rate: 0.86%

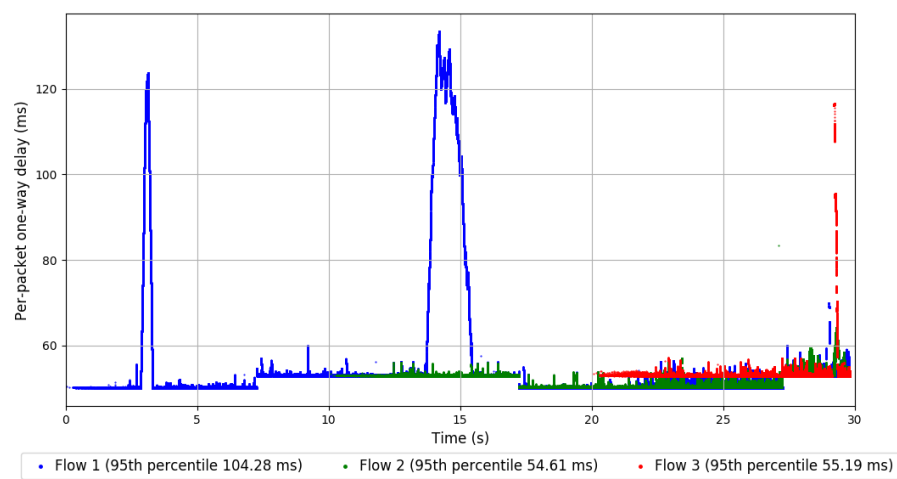
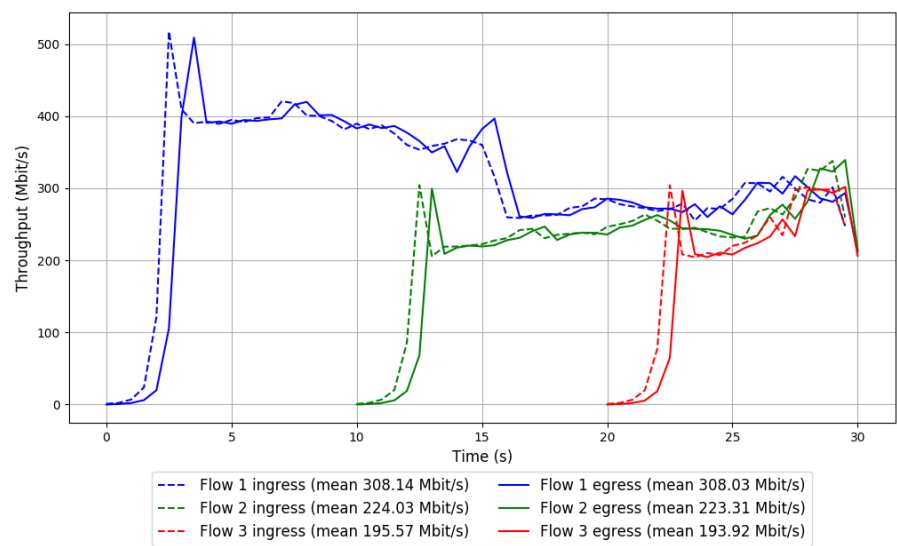
-- Flow 3:

Average throughput: 193.92 Mbit/s

95th percentile per-packet one-way delay: 55.189 ms

Loss rate: 1.93%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 17:53:26

End at: 2018-06-07 17:53:56

Local clock offset: 0.072 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-06-07 22:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.20 Mbit/s

95th percentile per-packet one-way delay: 56.515 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 334.62 Mbit/s

95th percentile per-packet one-way delay: 57.488 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 255.58 Mbit/s

95th percentile per-packet one-way delay: 53.634 ms

Loss rate: 0.56%

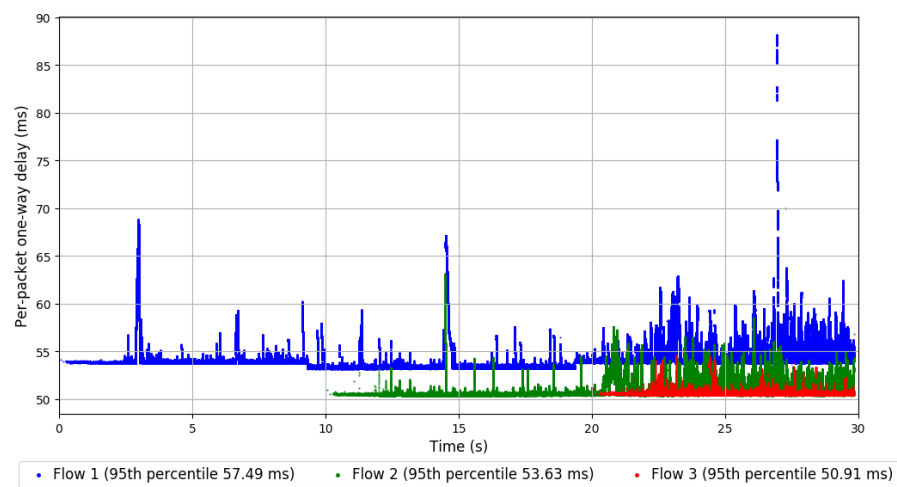
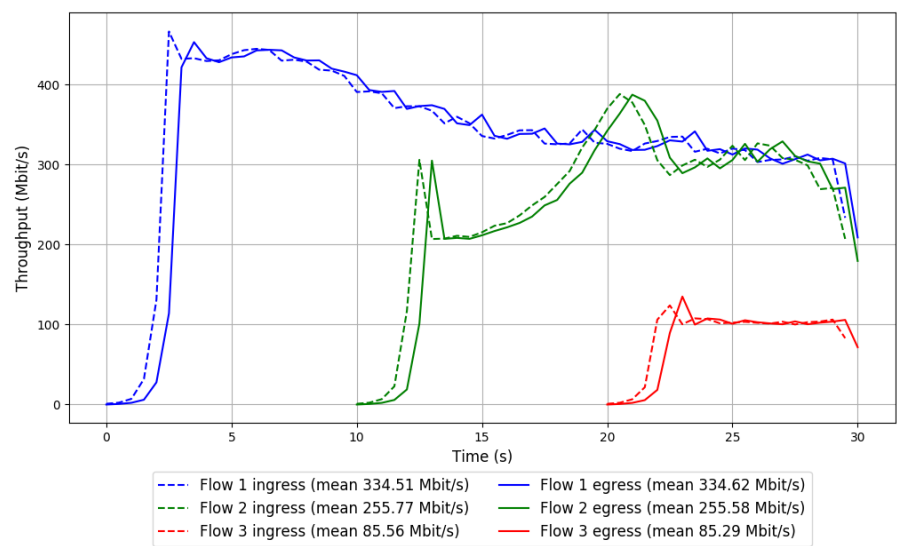
-- Flow 3:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 50.915 ms

Loss rate: 1.34%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 18:16:04

End at: 2018-06-07 18:16:34

Local clock offset: -0.11 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2018-06-07 22:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 550.36 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 321.29 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 259.14 Mbit/s

95th percentile per-packet one-way delay: 54.930 ms

Loss rate: 0.64%

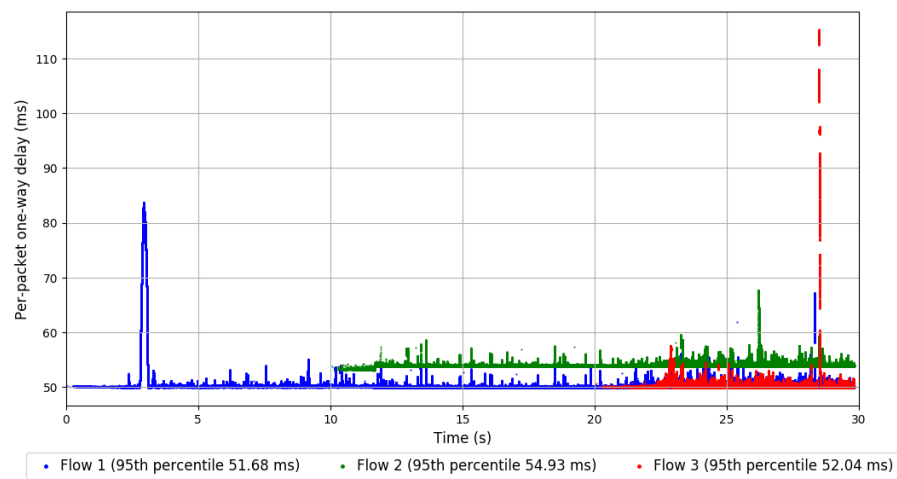
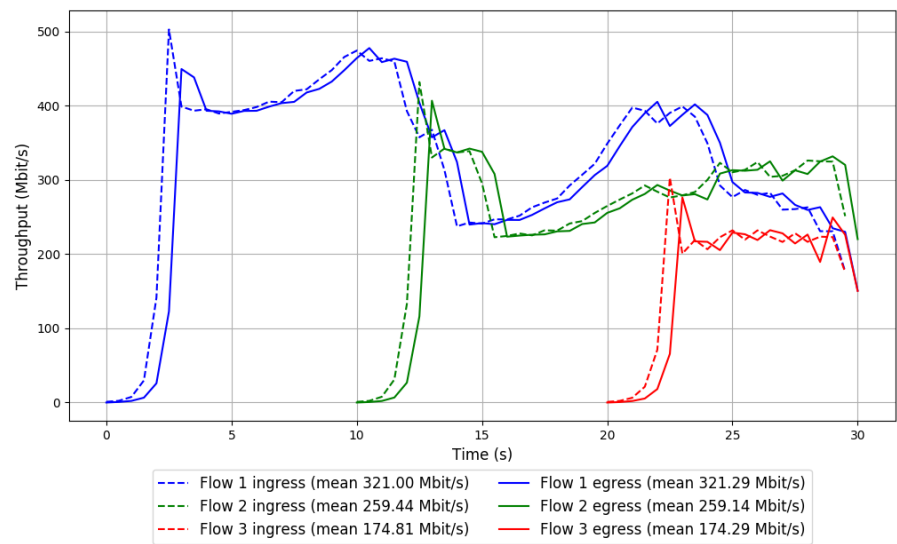
-- Flow 3:

Average throughput: 174.29 Mbit/s

95th percentile per-packet one-way delay: 52.039 ms

Loss rate: 1.34%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-07 18:38:56

End at: 2018-06-07 18:39:26

Local clock offset: -0.2 ms

Remote clock offset: 0.496 ms

Below is generated by plot.py at 2018-06-07 22:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 578.81 Mbit/s

95th percentile per-packet one-way delay: 54.543 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 332.44 Mbit/s

95th percentile per-packet one-way delay: 54.217 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 267.47 Mbit/s

95th percentile per-packet one-way delay: 54.389 ms

Loss rate: 0.58%

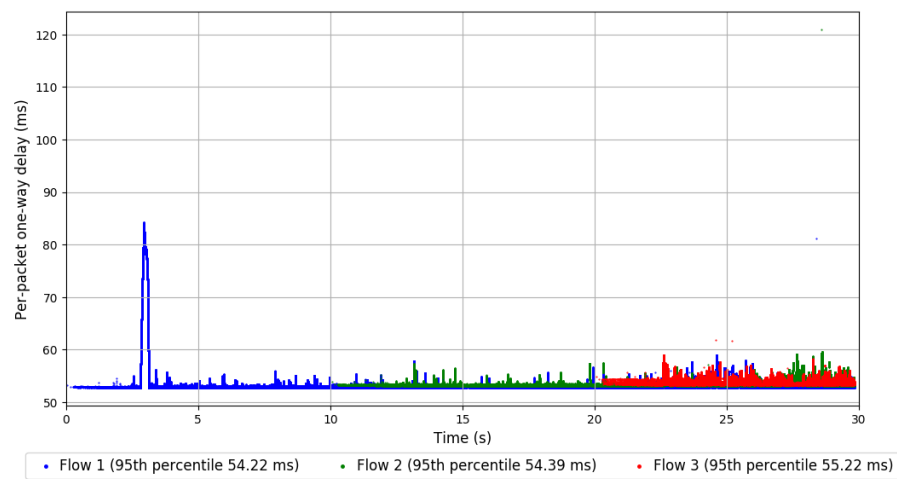
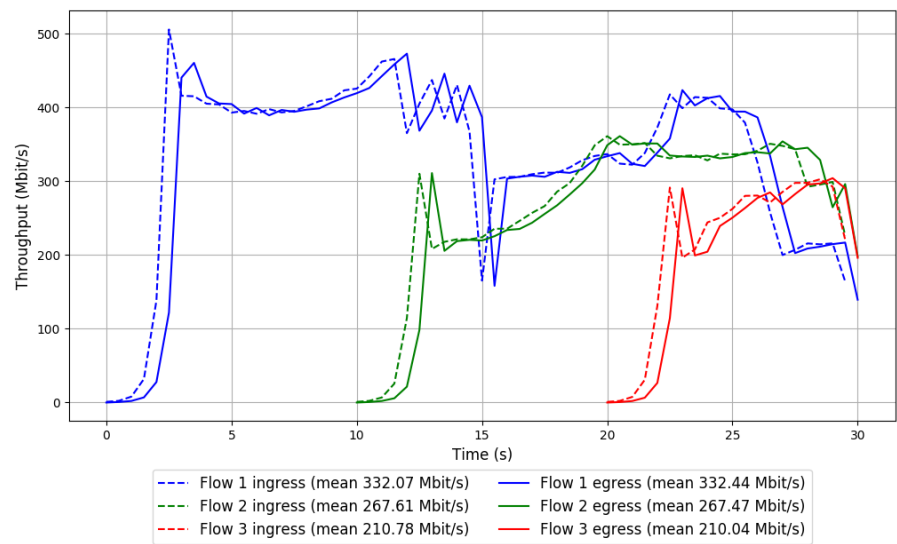
-- Flow 3:

Average throughput: 210.04 Mbit/s

95th percentile per-packet one-way delay: 55.216 ms

Loss rate: 1.42%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-07 19:02:23

End at: 2018-06-07 19:02:53

Local clock offset: 0.363 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-06-07 22:41:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.70 Mbit/s

95th percentile per-packet one-way delay: 56.573 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 360.56 Mbit/s

95th percentile per-packet one-way delay: 57.095 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 265.40 Mbit/s

95th percentile per-packet one-way delay: 56.084 ms

Loss rate: 0.55%

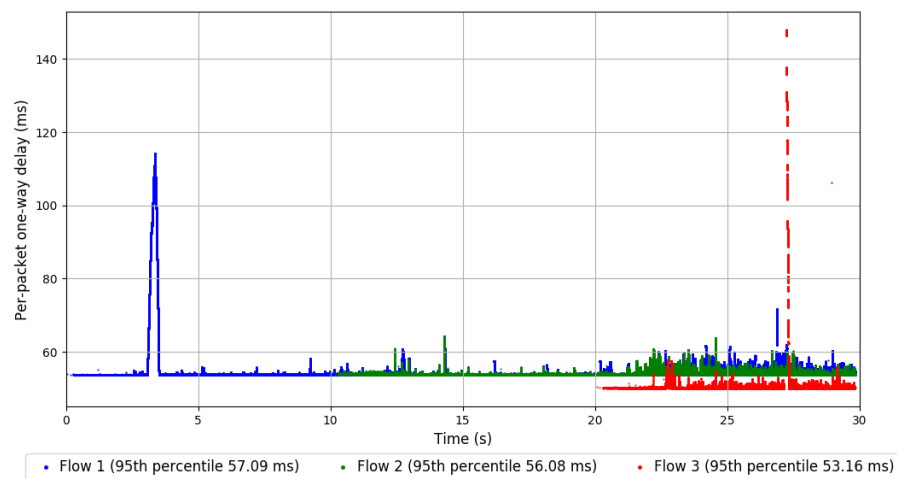
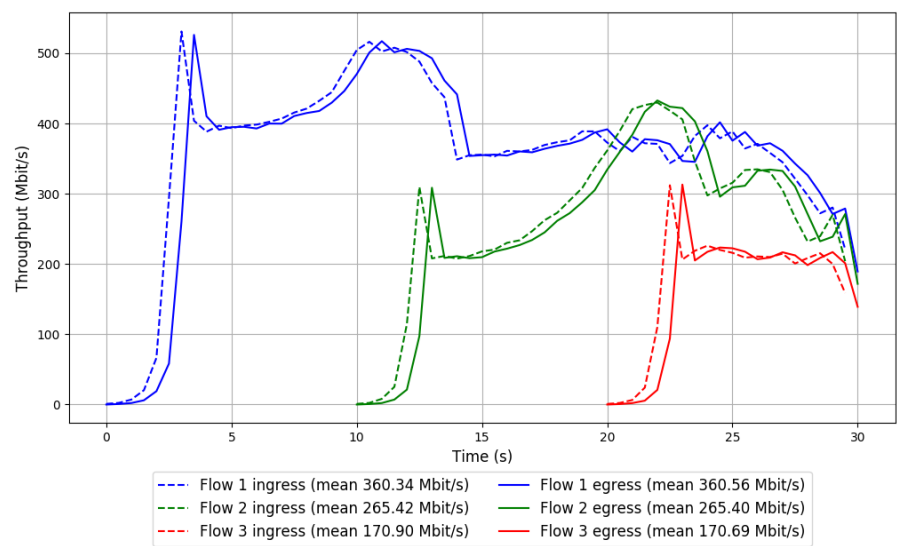
-- Flow 3:

Average throughput: 170.69 Mbit/s

95th percentile per-packet one-way delay: 53.161 ms

Loss rate: 1.18%

Run 7: Report of PCC-Vivace — Data Link

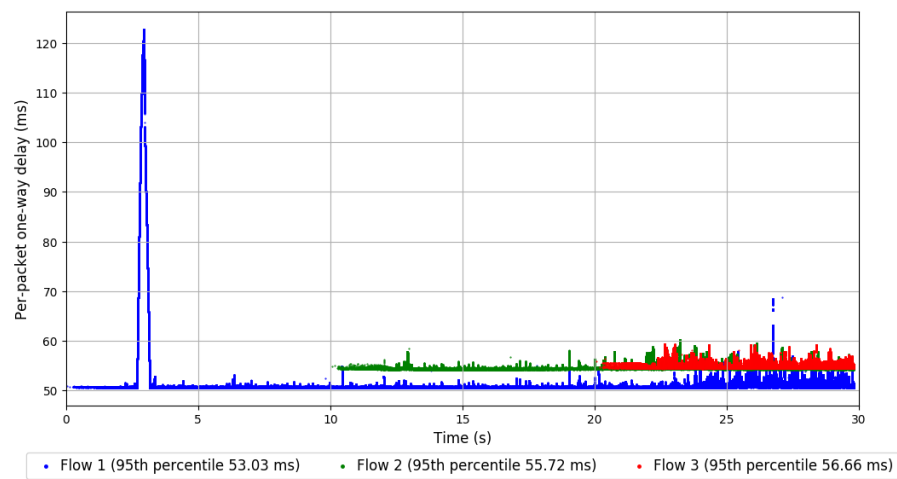
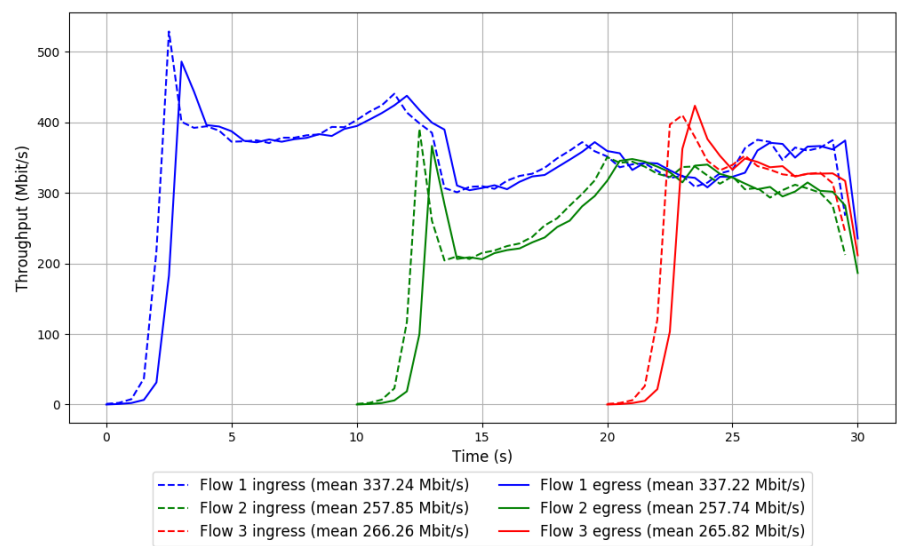


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 19:25:02
End at: 2018-06-07 19:25:32
Local clock offset: 0.281 ms
Remote clock offset: -0.724 ms

Below is generated by plot.py at 2018-06-07 22:41:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 595.35 Mbit/s
95th percentile per-packet one-way delay: 55.697 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 337.22 Mbit/s
95th percentile per-packet one-way delay: 53.033 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 257.74 Mbit/s
95th percentile per-packet one-way delay: 55.717 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 265.82 Mbit/s
95th percentile per-packet one-way delay: 56.664 ms
Loss rate: 1.24%

Run 8: Report of PCC-Vivace — Data Link

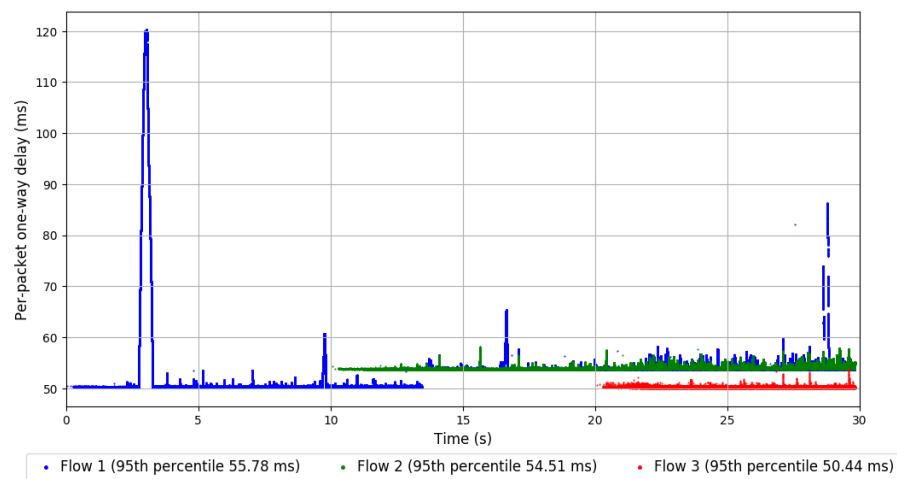
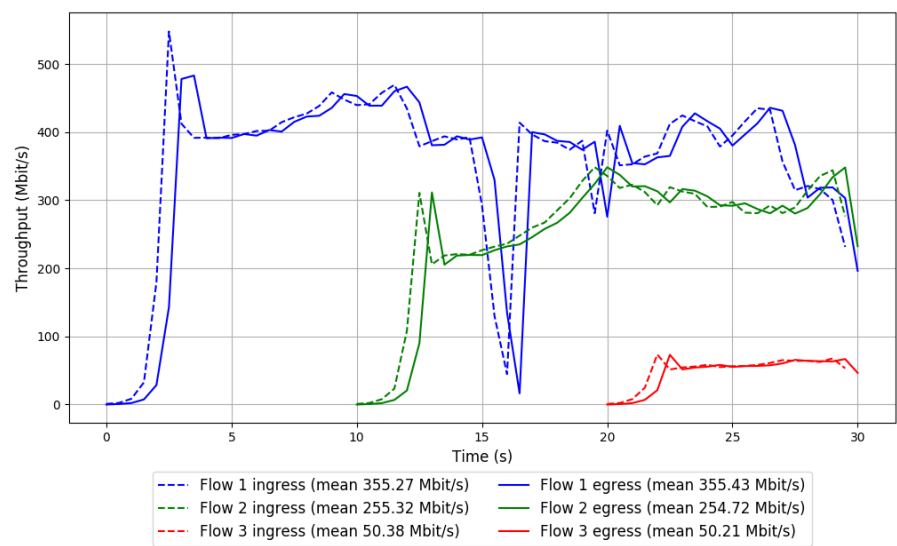


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-07 19:47:32
End at: 2018-06-07 19:48:02
Local clock offset: 0.27 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-07 22:41:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 540.89 Mbit/s
95th percentile per-packet one-way delay: 55.030 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 355.43 Mbit/s
95th percentile per-packet one-way delay: 55.780 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 254.72 Mbit/s
95th percentile per-packet one-way delay: 54.506 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 50.444 ms
Loss rate: 1.40%

Run 9: Report of PCC-Vivace — Data Link

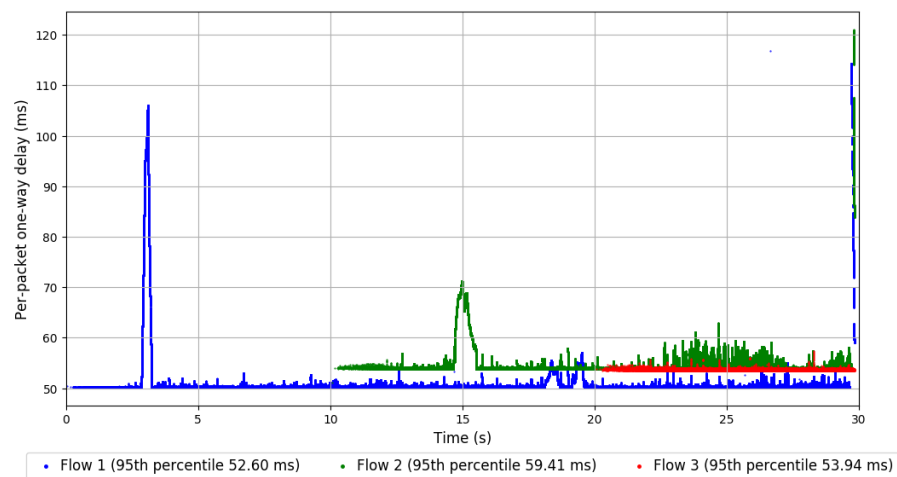
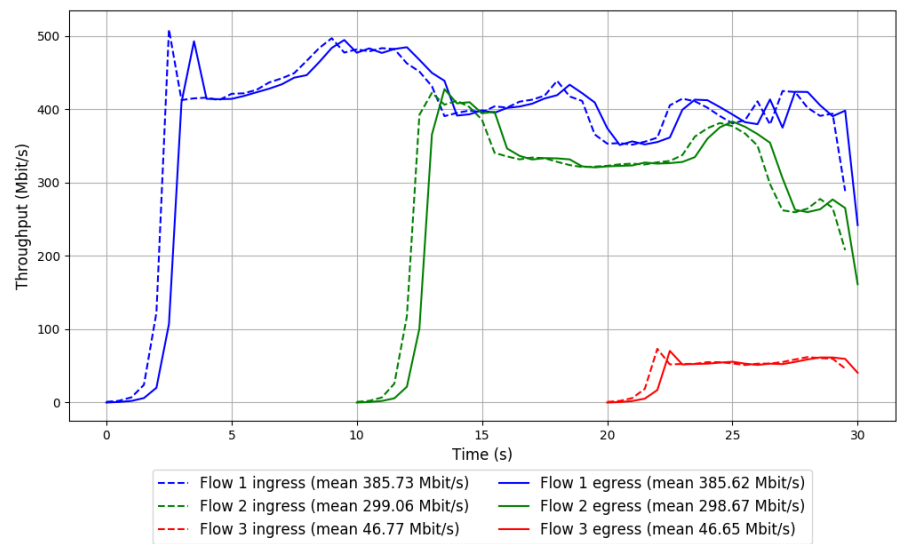


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 20:10:05
End at: 2018-06-07 20:10:35
Local clock offset: 0.055 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2018-06-07 22:41:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 599.16 Mbit/s
95th percentile per-packet one-way delay: 56.592 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 385.62 Mbit/s
95th percentile per-packet one-way delay: 52.605 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 298.67 Mbit/s
95th percentile per-packet one-way delay: 59.413 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 1.32%

Run 10: Report of PCC-Vivace — Data Link

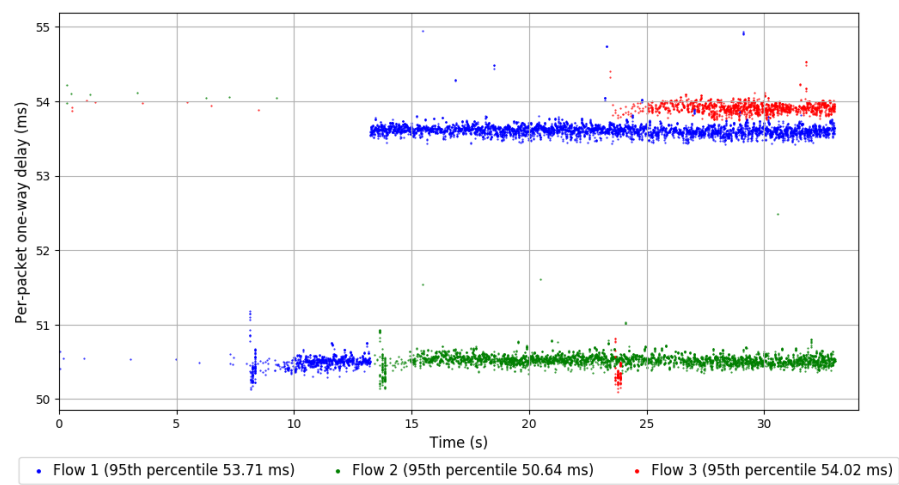
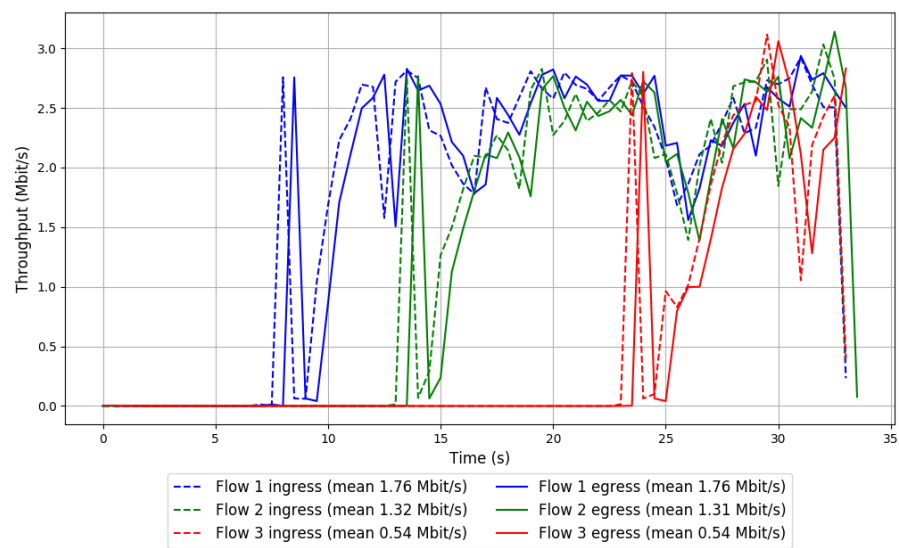


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-07 16:30:12
End at: 2018-06-07 16:30:42
Local clock offset: -0.128 ms
Remote clock offset: -1.015 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 53.707 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.015 ms
Loss rate: 1.64%
```

Run 1: Report of WebRTC media — Data Link

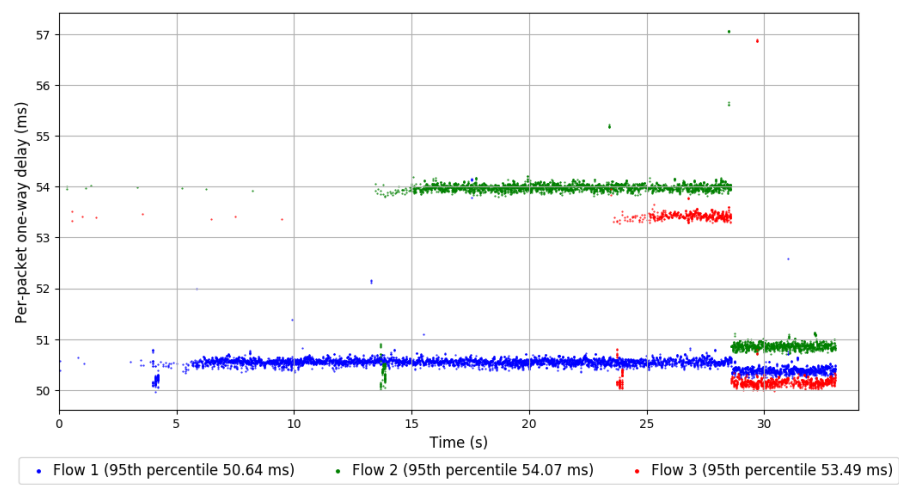
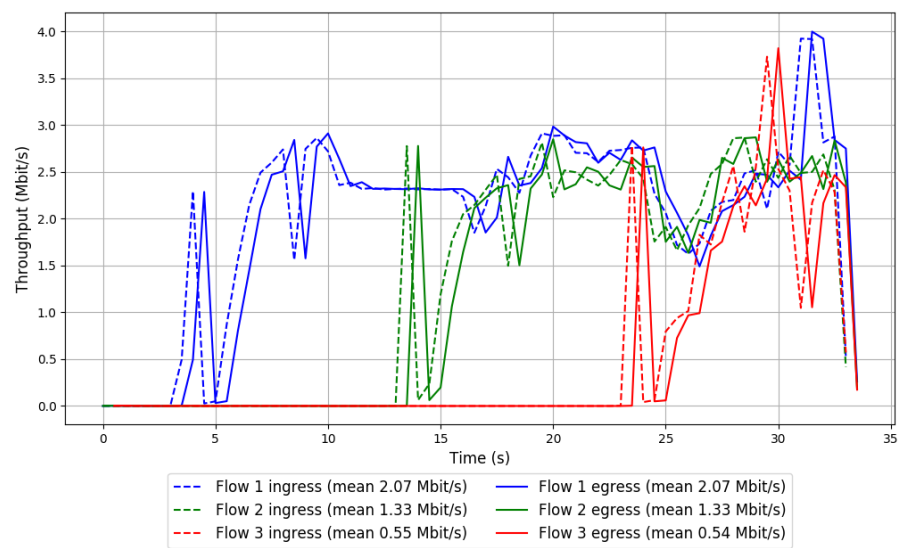


Run 2: Statistics of WebRTC media

Start at: 2018-06-07 16:52:57
End at: 2018-06-07 16:53:27
Local clock offset: 0.024 ms
Remote clock offset: -0.661 ms

Below is generated by plot.py at 2018-06-07 22:41:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 54.036 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 50.640 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 54.074 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.493 ms
Loss rate: 1.61%

Run 2: Report of WebRTC media — Data Link

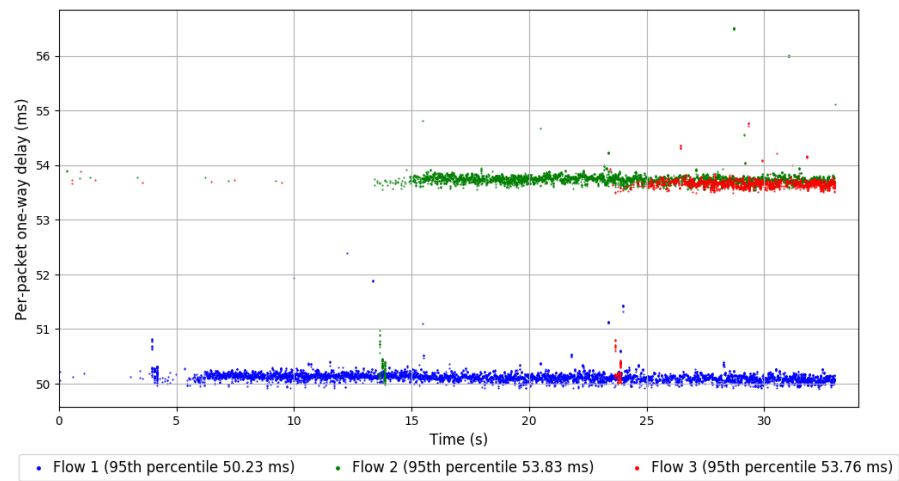
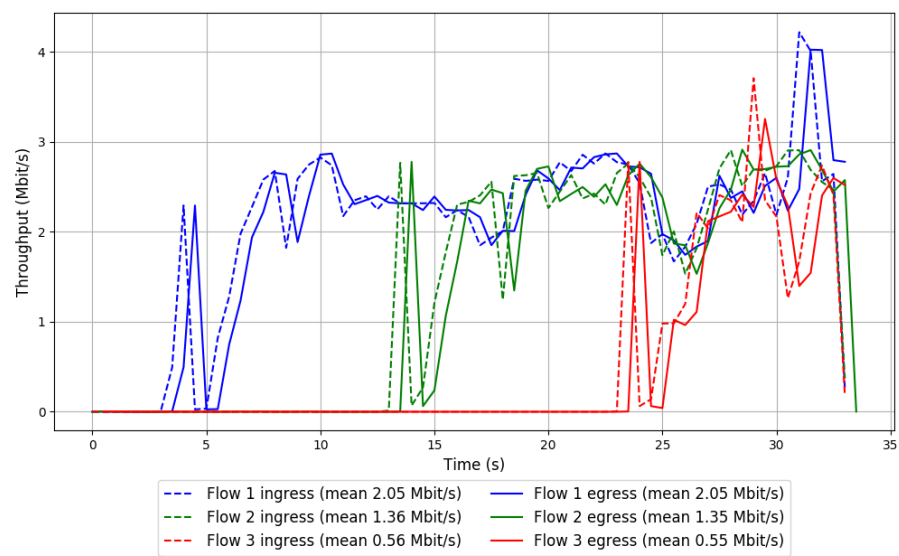


Run 3: Statistics of WebRTC media

Start at: 2018-06-07 17:15:21
End at: 2018-06-07 17:15:51
Local clock offset: -0.172 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-07 22:41:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 50.232 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 53.755 ms
Loss rate: 1.13%

Run 3: Report of WebRTC media — Data Link

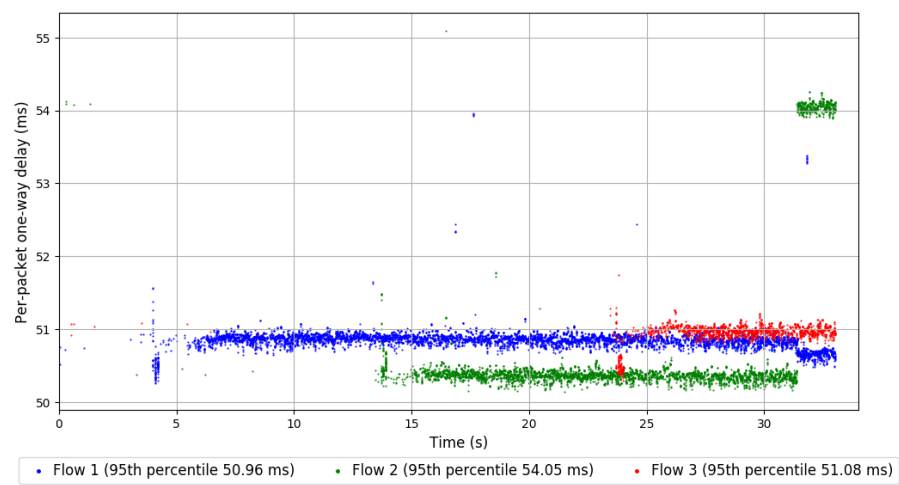
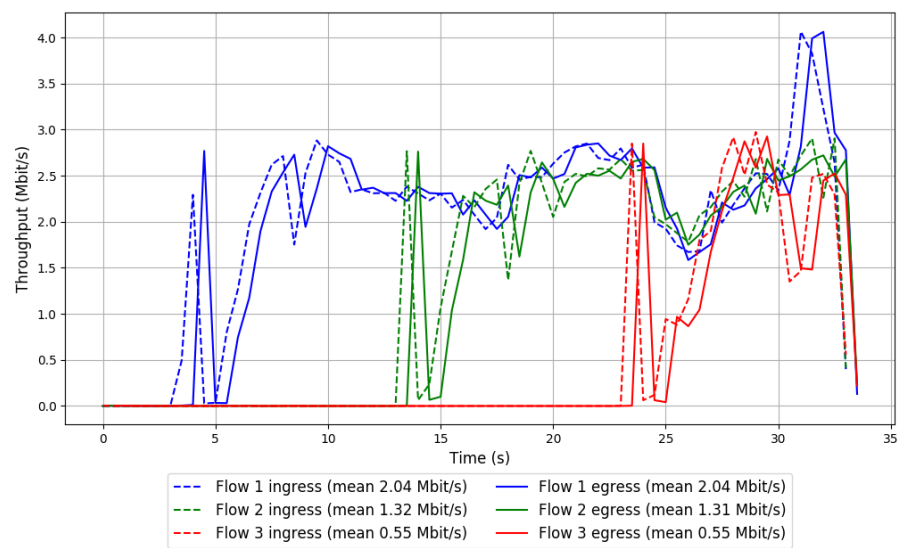


Run 4: Statistics of WebRTC media

Start at: 2018-06-07 17:38:27
End at: 2018-06-07 17:38:57
Local clock offset: -0.01 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-07 22:41:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 54.050 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 51.078 ms
Loss rate: 1.55%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-07 18:01:27

End at: 2018-06-07 18:01:57

Local clock offset: -0.231 ms

Remote clock offset: 0.817 ms

Below is generated by plot.py at 2018-06-07 22:41:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 53.153 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 53.181 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 52.663 ms

Loss rate: 0.75%

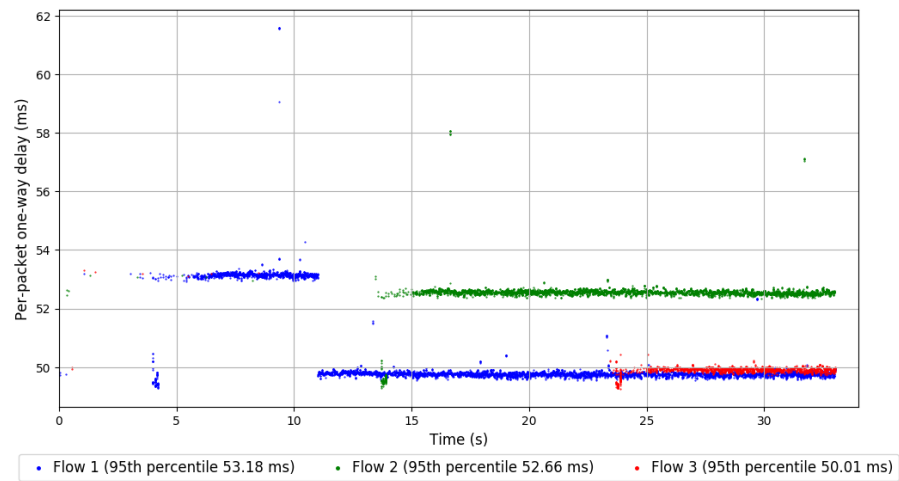
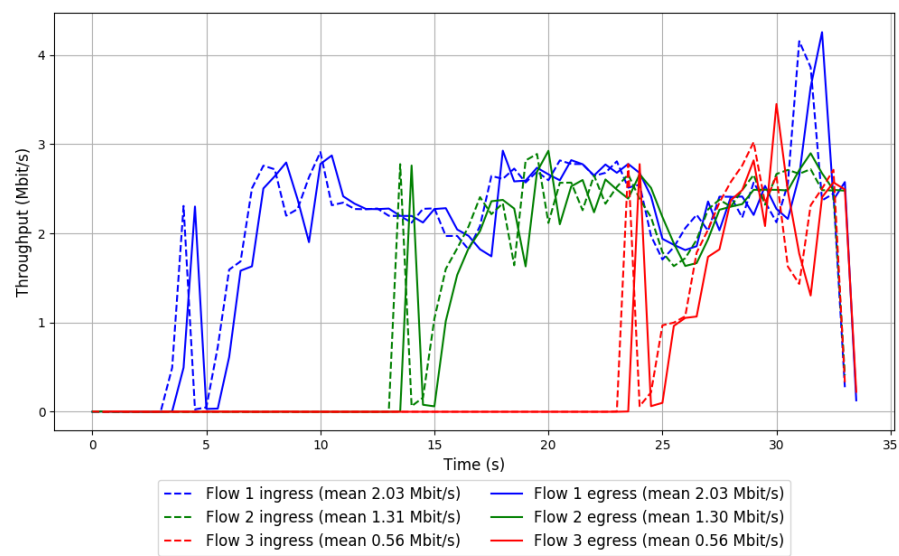
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.007 ms

Loss rate: 1.38%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-07 18:24:05

End at: 2018-06-07 18:24:35

Local clock offset: -0.132 ms

Remote clock offset: 0.424 ms

Below is generated by plot.py at 2018-06-07 22:41:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 54.070 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 53.988 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 54.120 ms

Loss rate: 0.48%

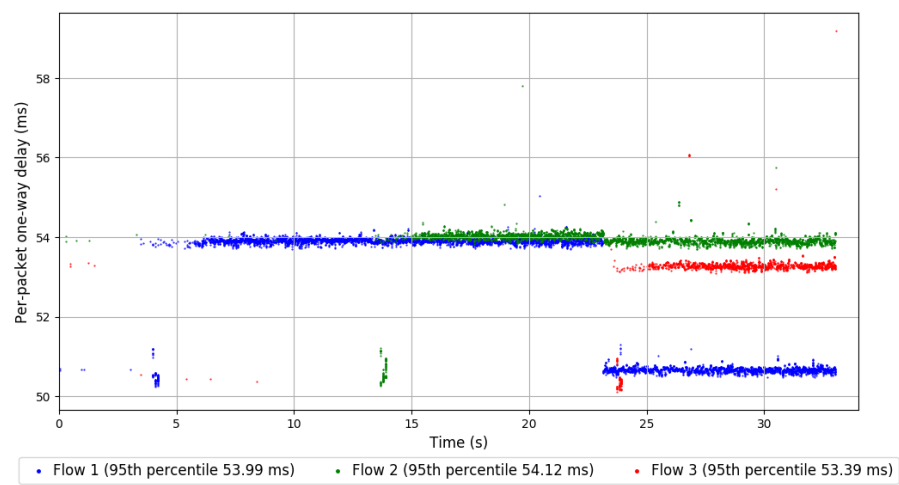
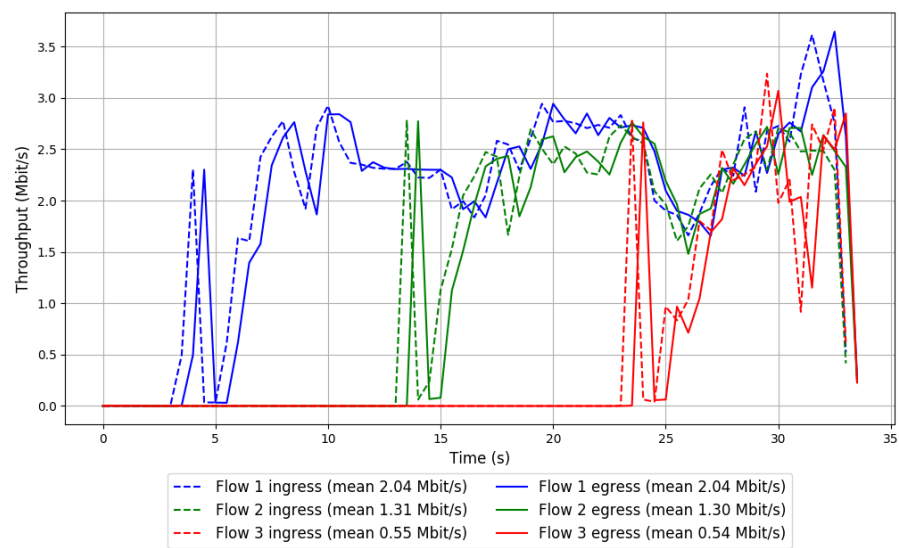
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.386 ms

Loss rate: 1.84%

Run 6: Report of WebRTC media — Data Link

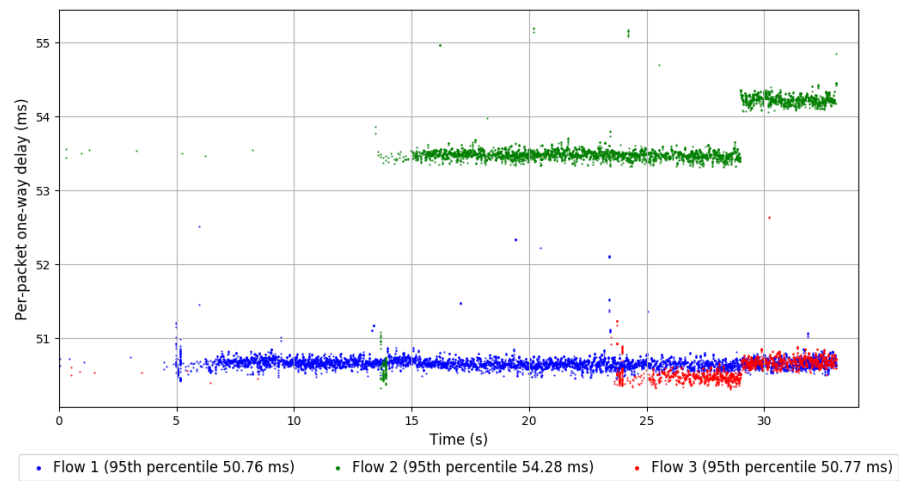
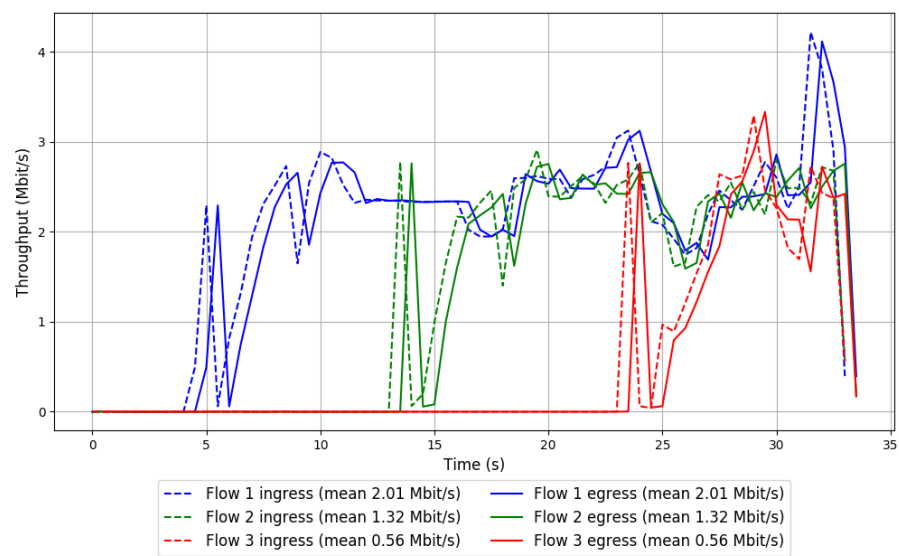


Run 7: Statistics of WebRTC media

Start at: 2018-06-07 18:46:59
End at: 2018-06-07 18:47:29
Local clock offset: 0.26 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-07 22:41:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 54.211 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 50.760 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 54.281 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 1.52%

Run 7: Report of WebRTC media — Data Link

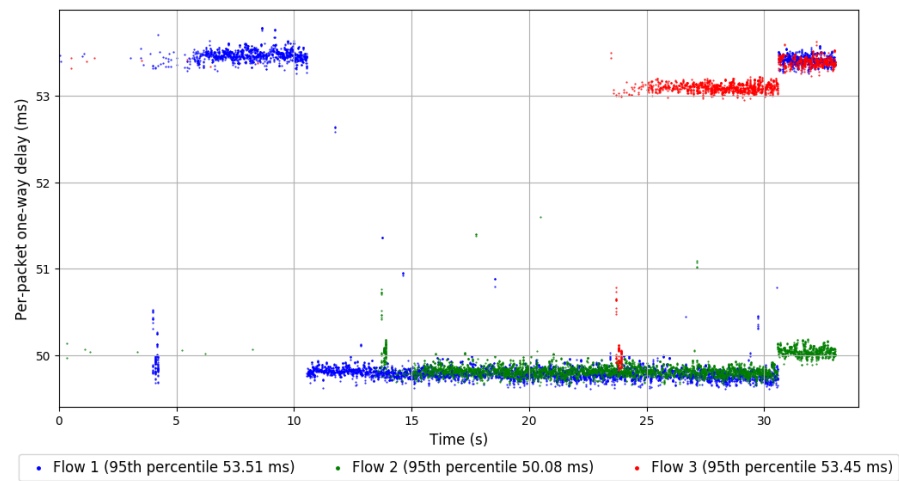
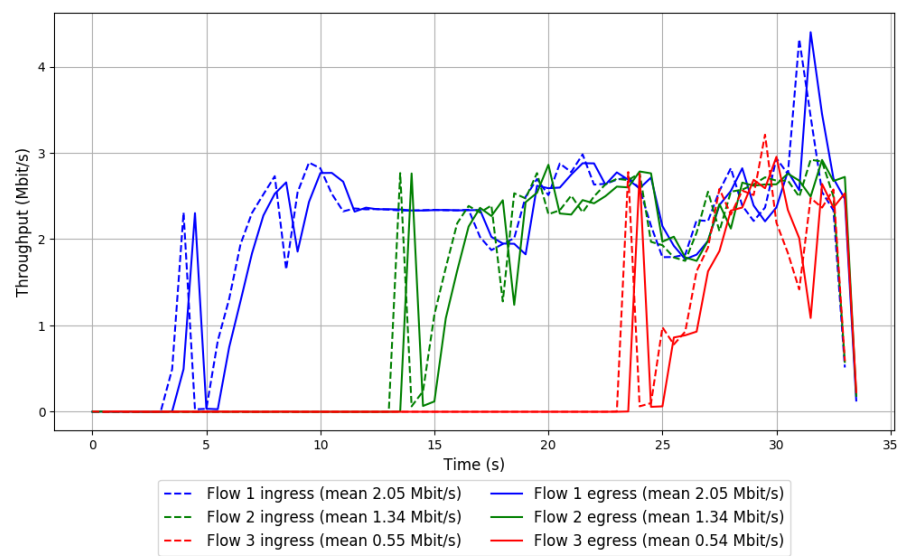


Run 8: Statistics of WebRTC media

Start at: 2018-06-07 19:10:28
End at: 2018-06-07 19:10:58
Local clock offset: -0.309 ms
Remote clock offset: -0.273 ms

Below is generated by plot.py at 2018-06-07 22:41:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 53.479 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 50.076 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.446 ms
Loss rate: 1.64%

Run 8: Report of WebRTC media — Data Link

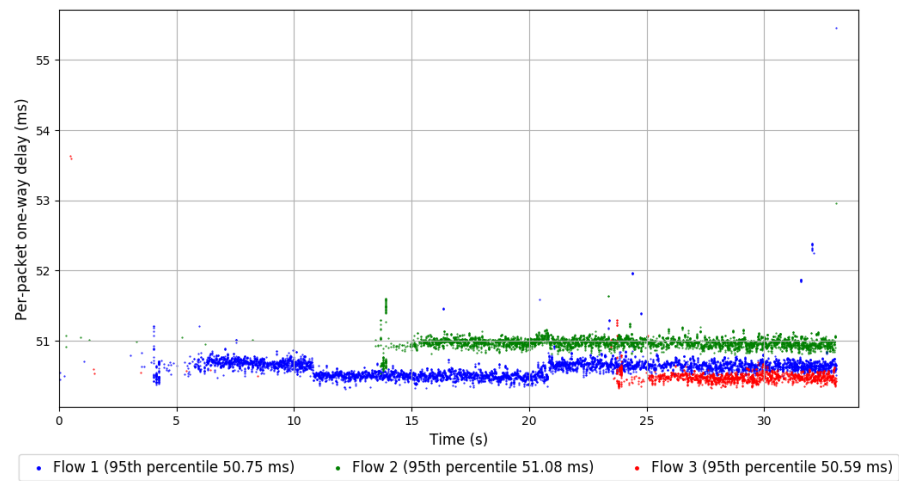
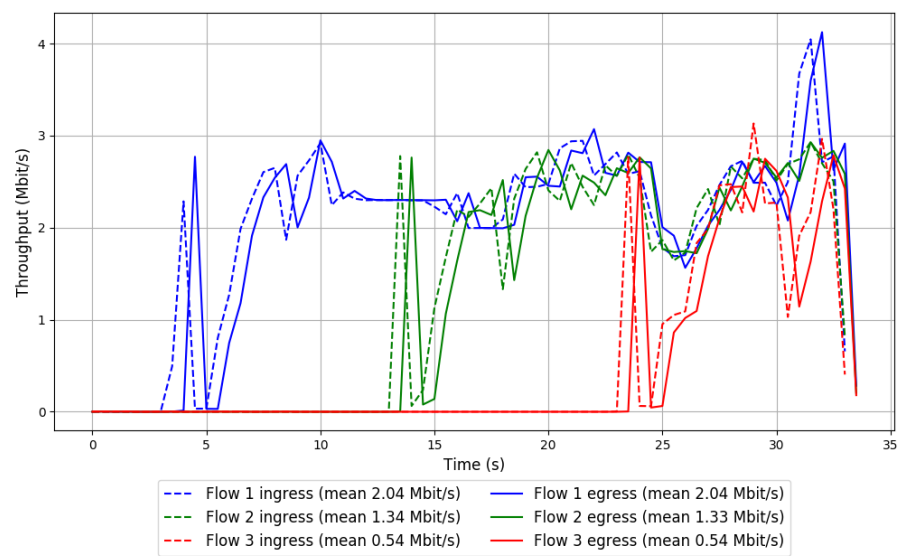


Run 9: Statistics of WebRTC media

Start at: 2018-06-07 19:33:08
End at: 2018-06-07 19:33:38
Local clock offset: 0.039 ms
Remote clock offset: -0.741 ms

Below is generated by plot.py at 2018-06-07 22:41:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.039 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.752 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 50.591 ms
Loss rate: 1.15%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-07 19:55:32

End at: 2018-06-07 19:56:02

Local clock offset: -0.094 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-06-07 22:41:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.53%

-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 1.61%

Run 10: Report of WebRTC media — Data Link

