

Pantheon Report

Generated at 2018-05-25 16:03:42 (UTC).

Data path: India Ethernet (*remote*) → AWS India 1 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.

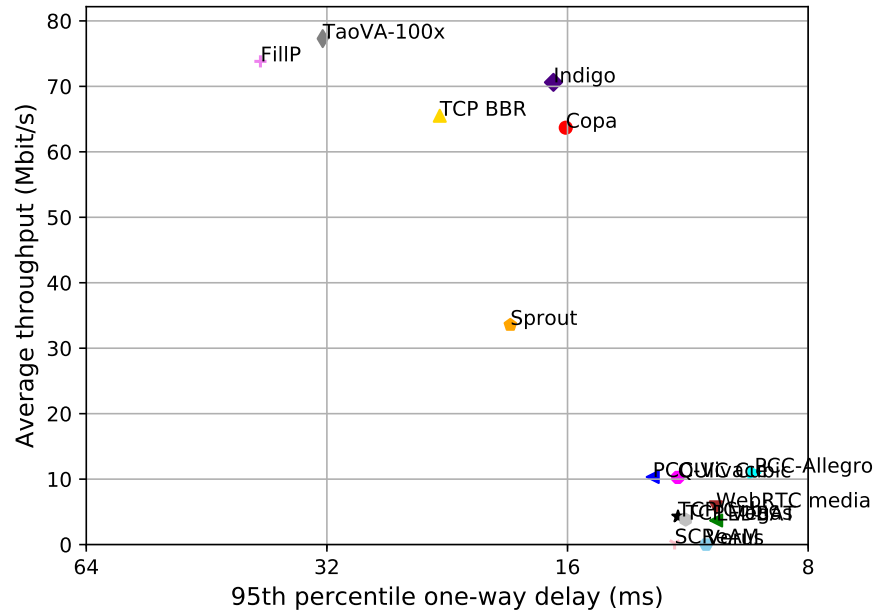
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

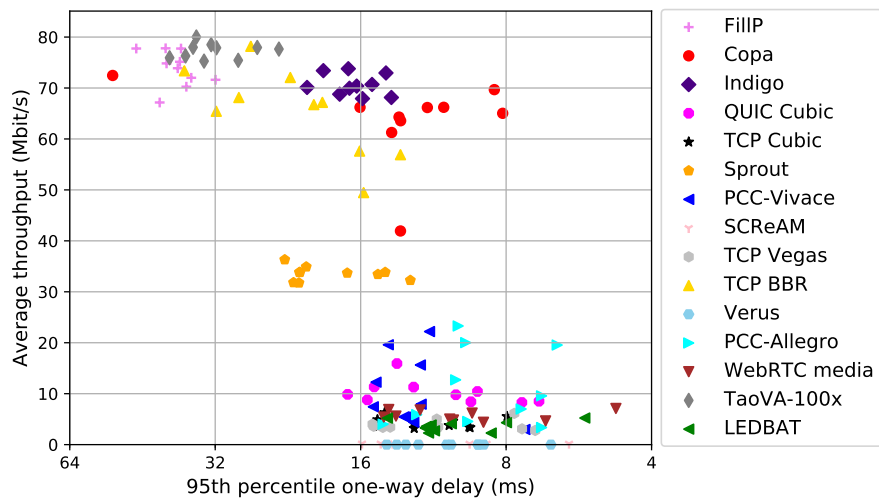
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from India to AWS India 1, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from India to AWS India 1, 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	43.41	21.39	24.32	23.22	22.36	24.64	14.95	14.97	15.26
Copa	10	31.48	33.61	28.75	15.47	16.48	16.31	19.35	16.49	16.33
TCP Cubic	10	2.10	2.21	2.16	11.46	11.86	11.48	7.90	8.29	9.18
FillP	10	44.98	30.93	24.80	33.73	39.07	40.53	17.53	17.19	17.19
Indigo	10	39.88	32.57	27.36	15.33	16.61	17.77	17.14	17.64	16.75
LEDBAT	10	1.91	2.07	1.51	10.23	10.35	10.42	9.39	7.93	10.93
PCC-Allegro	10	7.68	3.50	3.05	8.85	8.78	9.35	9.01	9.46	9.62
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	5.22	4.99	5.22	11.47	11.34	10.82	7.25	7.53	8.09
SCReAM	10	0.08	0.09	0.11	11.18	11.67	11.30	6.39	6.31	6.04
Sprout	10	17.19	16.60	16.21	18.25	18.87	20.27	9.88	11.12	11.41
TaoVA-100x	10	47.38	33.21	24.13	31.16	32.23	37.27	17.42	16.91	17.50
TCP Vegas	10	1.91	1.99	1.79	11.27	11.58	11.24	8.81	8.64	10.06
Verus	10	0.00	0.00	0.00	10.95	10.06	10.04	7.39	7.03	7.00
PCC-Vivace	10	5.70	5.96	2.03	12.01	11.94	12.50	9.05	9.08	8.72
WebRTC media	10	3.40	1.58	0.72	10.32	10.37	10.54	8.50	8.82	9.50

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 12:27:40

End at: 2018-05-25 12:28:10

Local clock offset: 0.624 ms

Remote clock offset: 5.205 ms

Below is generated by plot.py at 2018-05-25 15:54:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 15.778 ms

Loss rate: 17.67%

-- Flow 1:

Average throughput: 33.99 Mbit/s

95th percentile per-packet one-way delay: 15.780 ms

Loss rate: 17.32%

-- Flow 2:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 15.361 ms

Loss rate: 18.12%

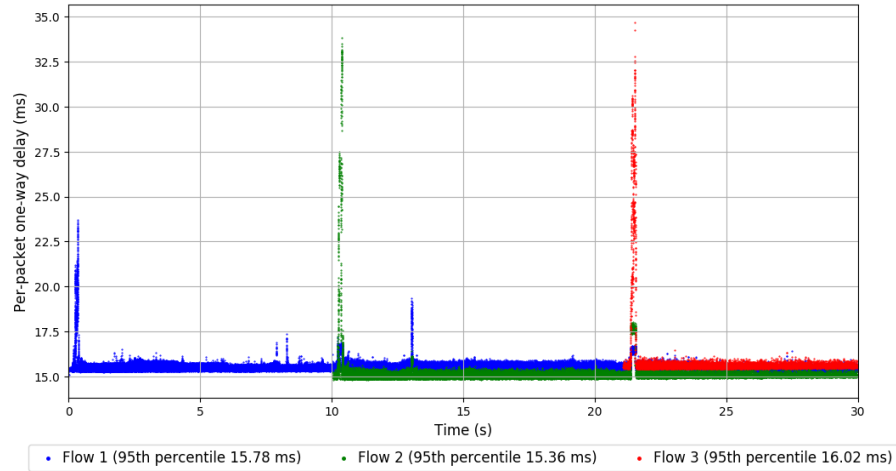
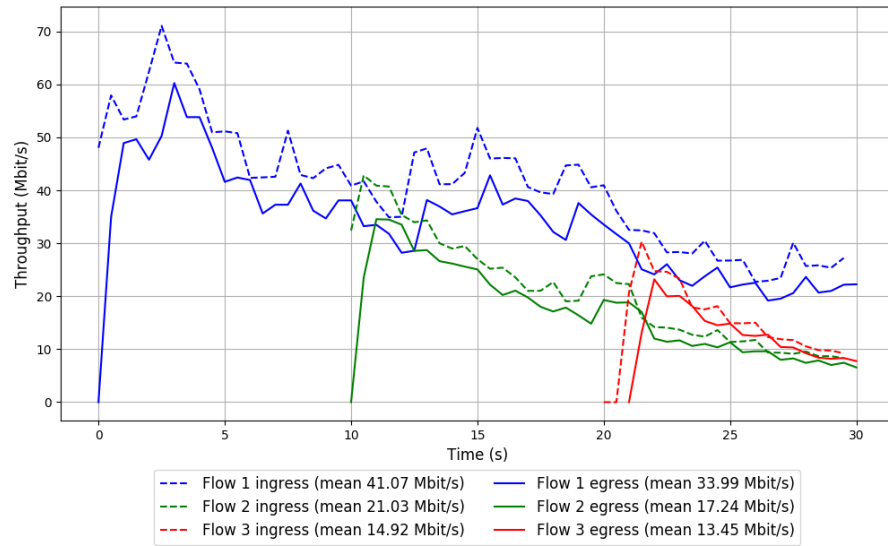
-- Flow 3:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 16.017 ms

Loss rate: 19.33%

Run 1: Report of TCP BBR — Data Link

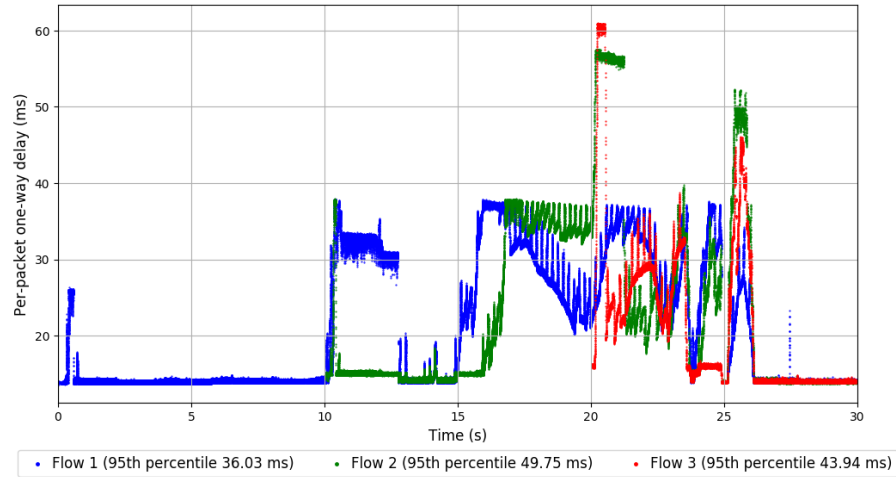
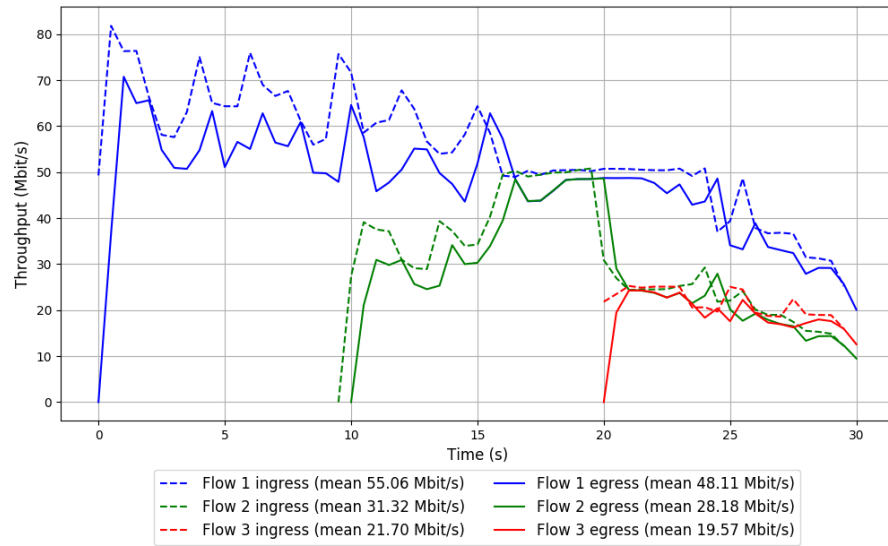


Run 2: Statistics of TCP BBR

Start at: 2018-05-25 12:50:21
End at: 2018-05-25 12:50:51
Local clock offset: -2.525 ms
Remote clock offset: -2.701 ms

Below is generated by plot.py at 2018-05-25 15:54:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 37.067 ms
Loss rate: 11.84%
-- Flow 1:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 36.035 ms
Loss rate: 12.70%
-- Flow 2:
Average throughput: 28.18 Mbit/s
95th percentile per-packet one-way delay: 49.746 ms
Loss rate: 10.17%
-- Flow 3:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 43.941 ms
Loss rate: 10.10%

Run 2: Report of TCP BBR — Data Link

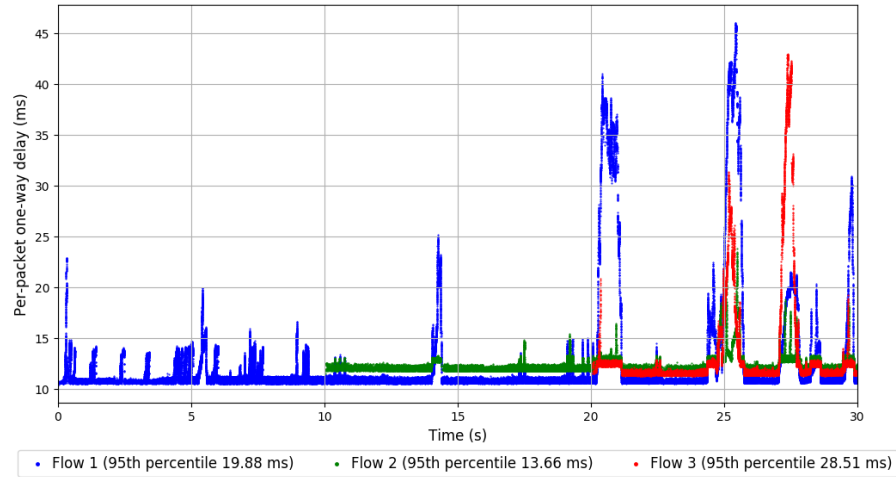
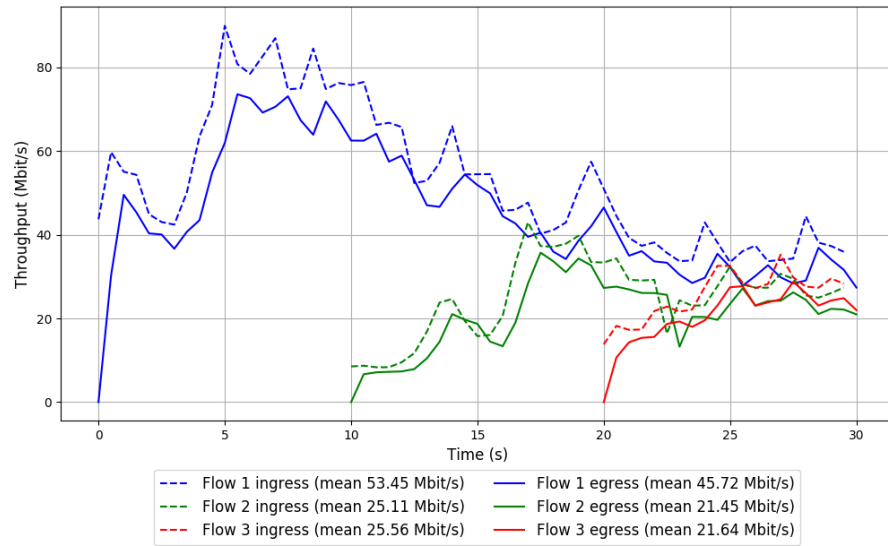


Run 3: Statistics of TCP BBR

Start at: 2018-05-25 13:12:06
End at: 2018-05-25 13:12:36
Local clock offset: -2.502 ms
Remote clock offset: -1.538 ms

Below is generated by plot.py at 2018-05-25 15:54:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.18 Mbit/s
95th percentile per-packet one-way delay: 19.201 ms
Loss rate: 14.68%
-- Flow 1:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 19.875 ms
Loss rate: 14.53%
-- Flow 2:
Average throughput: 21.45 Mbit/s
95th percentile per-packet one-way delay: 13.656 ms
Loss rate: 14.69%
-- Flow 3:
Average throughput: 21.64 Mbit/s
95th percentile per-packet one-way delay: 28.513 ms
Loss rate: 15.58%

Run 3: Report of TCP BBR — Data Link

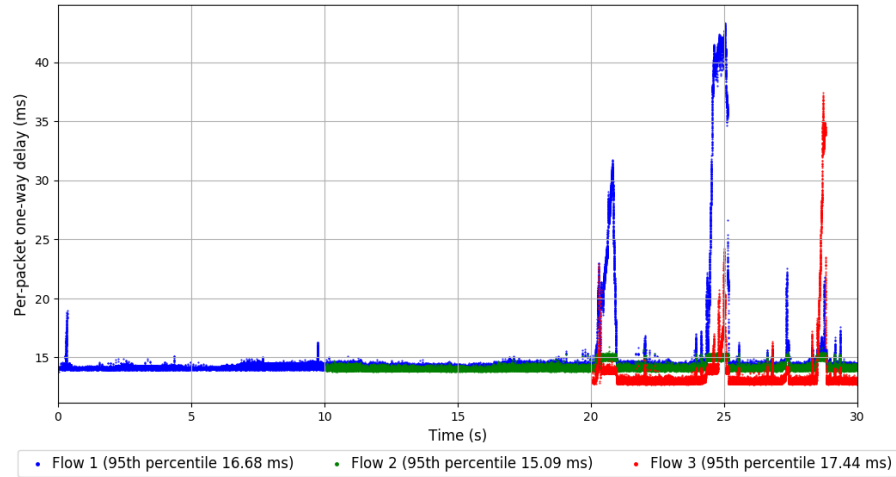
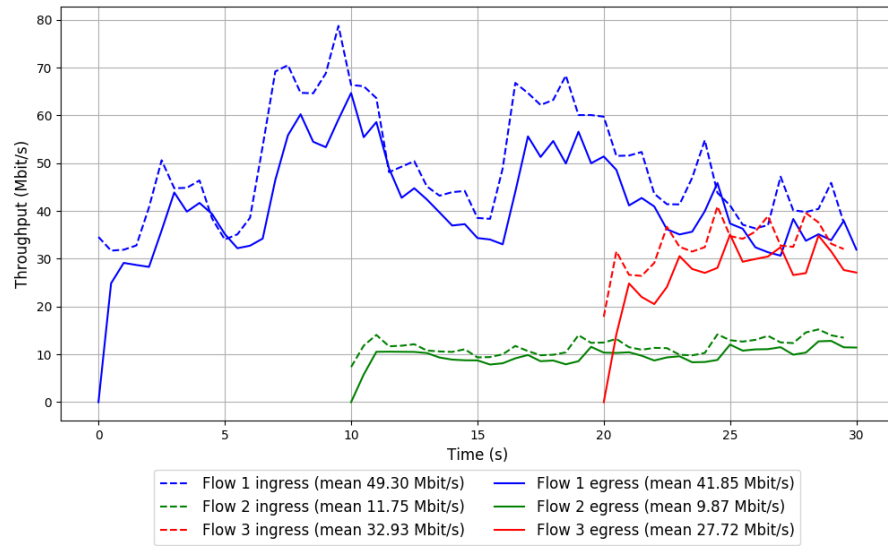


Run 4: Statistics of TCP BBR

Start at: 2018-05-25 13:34:48
End at: 2018-05-25 13:35:18
Local clock offset: -0.028 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-05-25 15:54:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.62 Mbit/s
95th percentile per-packet one-way delay: 16.079 ms
Loss rate: 15.43%
-- Flow 1:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 16.676 ms
Loss rate: 15.18%
-- Flow 2:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 15.087 ms
Loss rate: 16.14%
-- Flow 3:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 17.444 ms
Loss rate: 16.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 13:57:45

End at: 2018-05-25 13:58:15

Local clock offset: -0.999 ms

Remote clock offset: 1.681 ms

Below is generated by plot.py at 2018-05-25 15:54:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 13.236 ms

Loss rate: 16.24%

-- Flow 1:

Average throughput: 44.38 Mbit/s

95th percentile per-packet one-way delay: 12.679 ms

Loss rate: 16.15%

-- Flow 2:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 13.777 ms

Loss rate: 16.89%

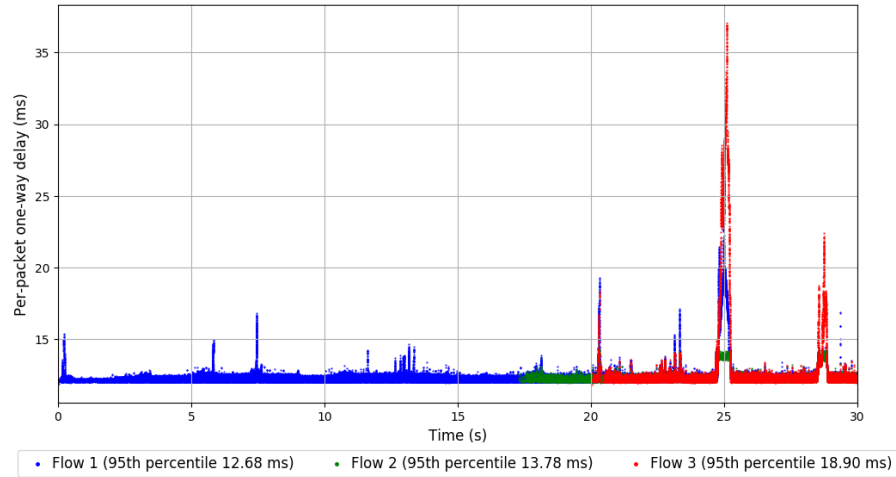
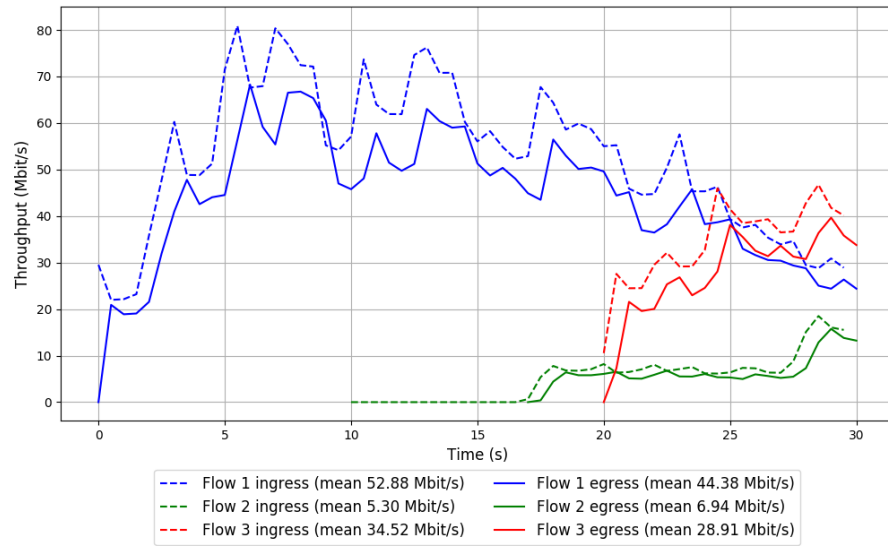
-- Flow 3:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 18.901 ms

Loss rate: 16.48%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 14:20:53

End at: 2018-05-25 14:21:23

Local clock offset: 1.115 ms

Remote clock offset: 2.778 ms

Below is generated by plot.py at 2018-05-25 15:54:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.74 Mbit/s

95th percentile per-packet one-way delay: 20.000 ms

Loss rate: 16.59%

-- Flow 1:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 16.608 ms

Loss rate: 16.70%

-- Flow 2:

Average throughput: 22.67 Mbit/s

95th percentile per-packet one-way delay: 22.225 ms

Loss rate: 16.27%

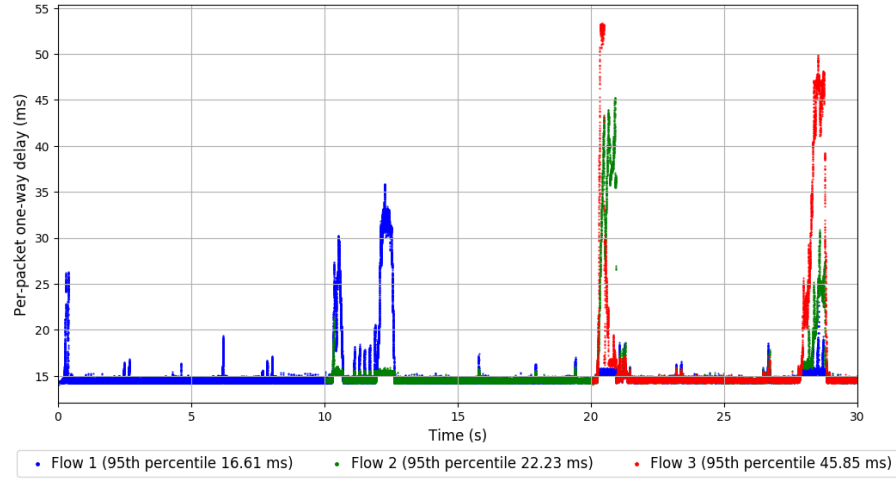
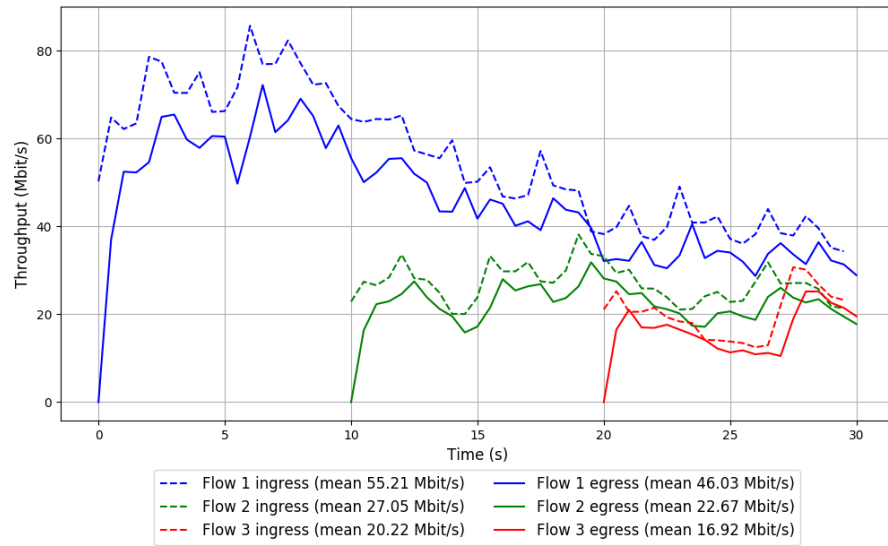
-- Flow 3:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 45.847 ms

Loss rate: 16.50%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 14:44:18

End at: 2018-05-25 14:44:48

Local clock offset: -5.528 ms

Remote clock offset: 6.21 ms

Below is generated by plot.py at 2018-05-25 15:54:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 22.372 ms

Loss rate: 14.56%

-- Flow 1:

Average throughput: 47.75 Mbit/s

95th percentile per-packet one-way delay: 24.032 ms

Loss rate: 14.57%

-- Flow 2:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 10.644 ms

Loss rate: 14.51%

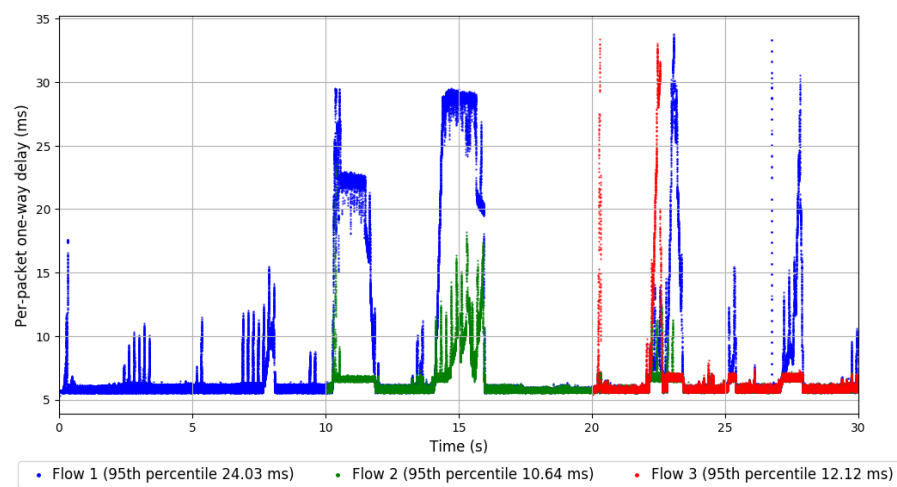
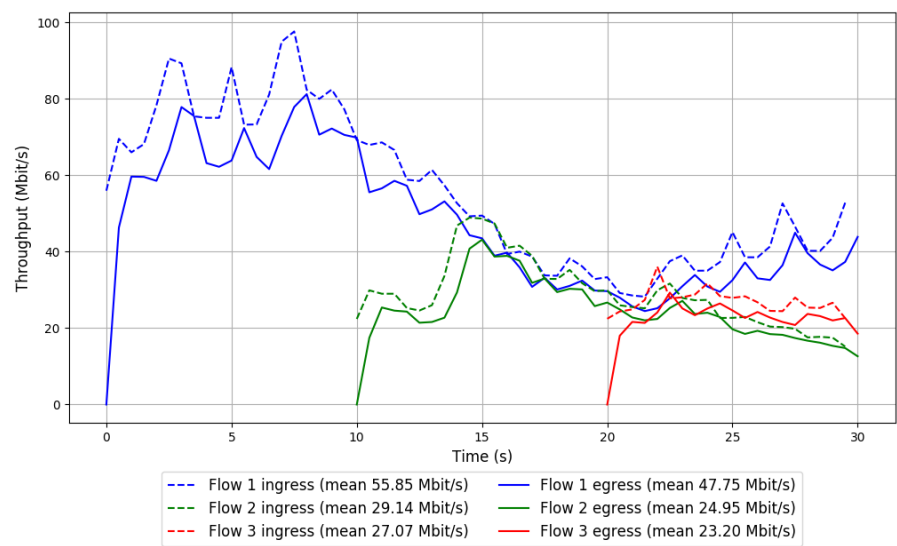
-- Flow 3:

Average throughput: 23.20 Mbit/s

95th percentile per-packet one-way delay: 12.119 ms

Loss rate: 14.54%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-25 15:06:16

End at: 2018-05-25 15:06:46

Local clock offset: -5.05 ms

Remote clock offset: 6.303 ms

Below is generated by plot.py at 2018-05-25 15:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 27.008 ms

Loss rate: 13.10%

-- Flow 1:

Average throughput: 45.11 Mbit/s

95th percentile per-packet one-way delay: 27.403 ms

Loss rate: 12.92%

-- Flow 2:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 27.573 ms

Loss rate: 13.04%

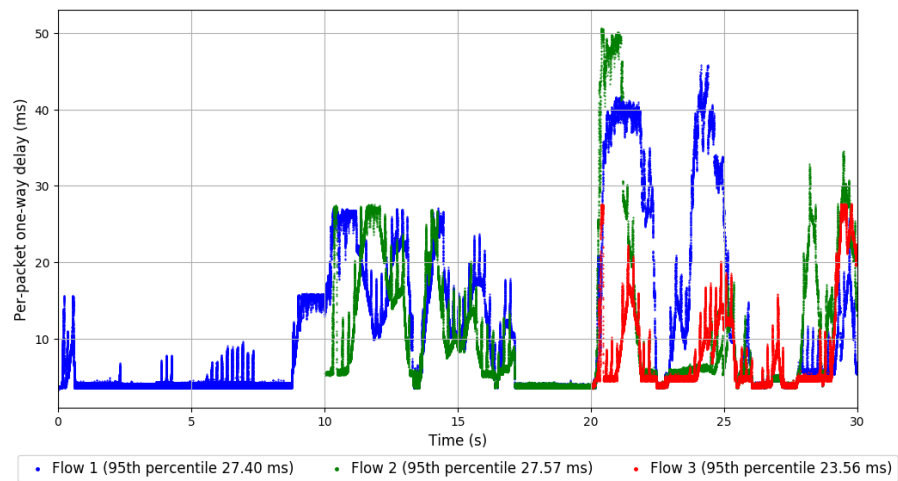
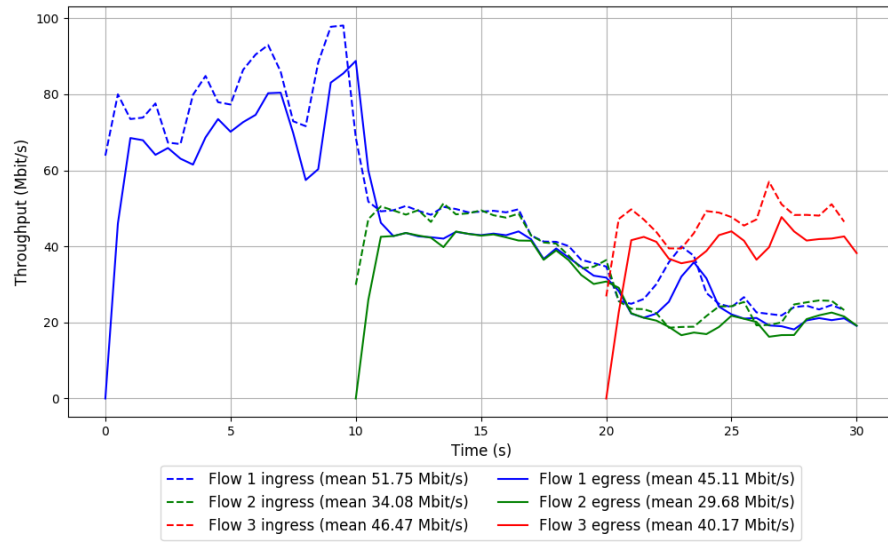
-- Flow 3:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 23.557 ms

Loss rate: 13.80%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-25 15:29:26

End at: 2018-05-25 15:29:56

Local clock offset: -4.534 ms

Remote clock offset: 0.817 ms

Below is generated by plot.py at 2018-05-25 15:55:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 28.589 ms

Loss rate: 14.53%

-- Flow 1:

Average throughput: 43.04 Mbit/s

95th percentile per-packet one-way delay: 25.256 ms

Loss rate: 14.33%

-- Flow 2:

Average throughput: 21.80 Mbit/s

95th percentile per-packet one-way delay: 43.252 ms

Loss rate: 14.93%

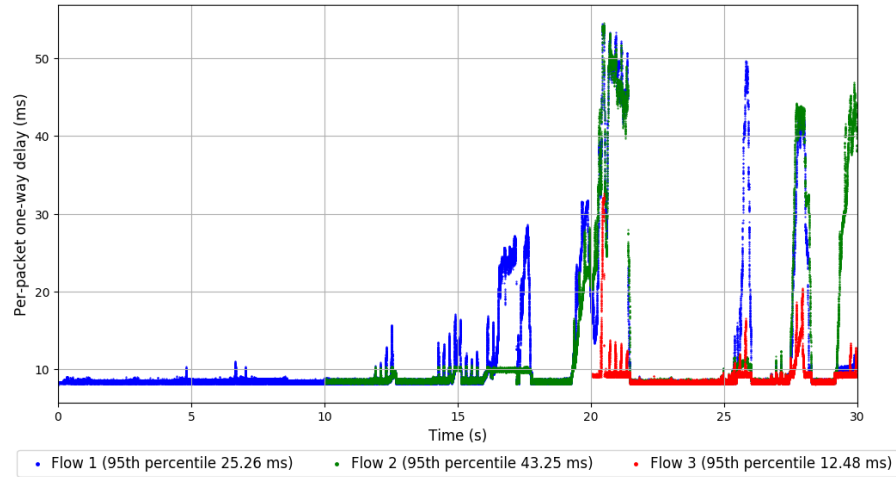
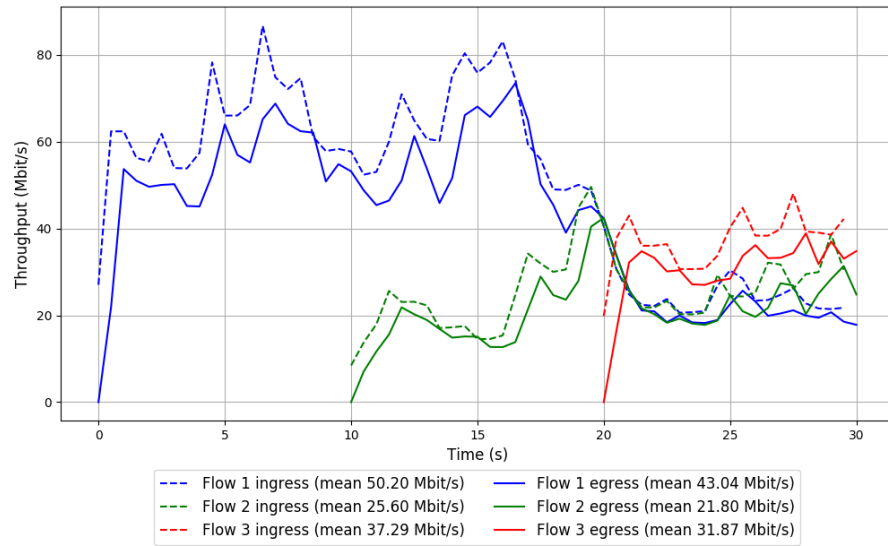
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 12.481 ms

Loss rate: 14.77%

Run 9: Report of TCP BBR — Data Link

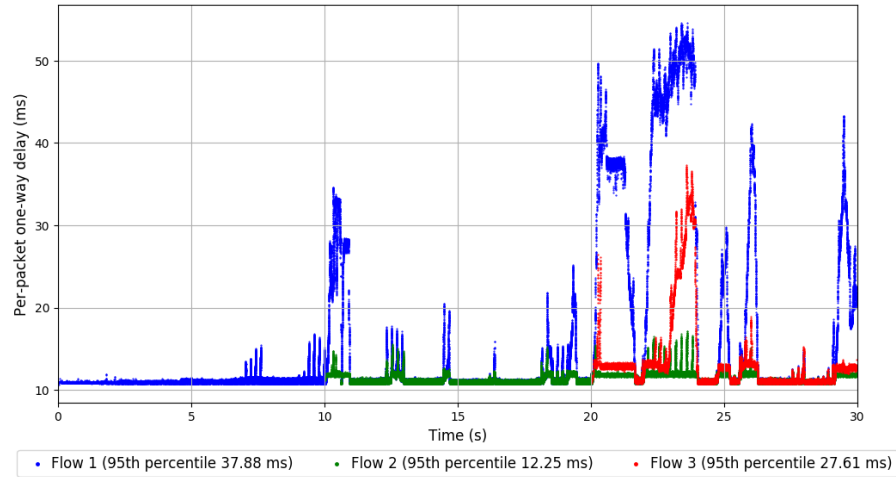
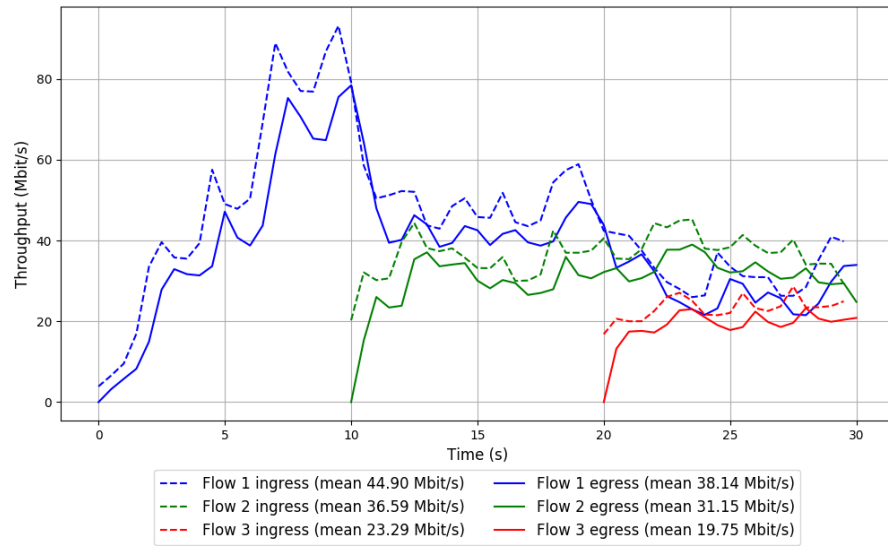


Run 10: Statistics of TCP BBR

Start at: 2018-05-25 15:51:06
End at: 2018-05-25 15:51:36
Local clock offset: -1.666 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-05-25 15:55:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.43 Mbit/s
95th percentile per-packet one-way delay: 31.837 ms
Loss rate: 15.12%
-- Flow 1:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 37.881 ms
Loss rate: 15.14%
-- Flow 2:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 12.248 ms
Loss rate: 14.99%
-- Flow 3:
Average throughput: 19.75 Mbit/s
95th percentile per-packet one-way delay: 27.615 ms
Loss rate: 15.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-25 12:23:45

End at: 2018-05-25 12:24:15

Local clock offset: -0.372 ms

Remote clock offset: 6.523 ms

Below is generated by plot.py at 2018-05-25 15:55:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.57 Mbit/s

95th percentile per-packet one-way delay: 13.226 ms

Loss rate: 16.01%

-- Flow 1:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 12.699 ms

Loss rate: 15.84%

-- Flow 2:

Average throughput: 32.73 Mbit/s

95th percentile per-packet one-way delay: 13.040 ms

Loss rate: 15.86%

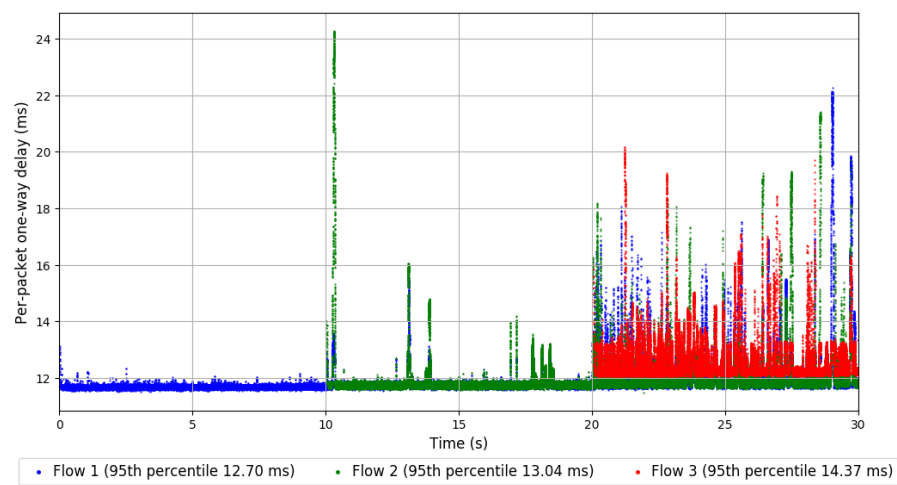
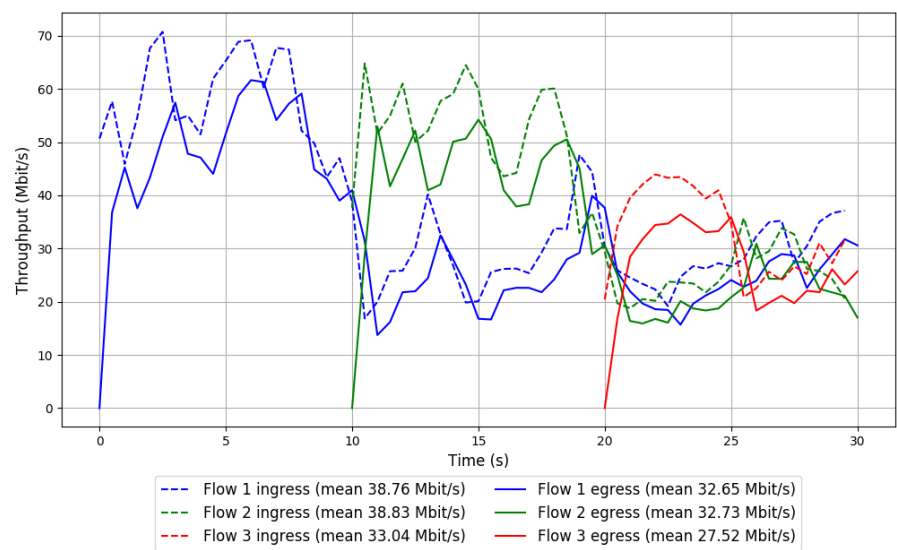
-- Flow 3:

Average throughput: 27.52 Mbit/s

95th percentile per-packet one-way delay: 14.365 ms

Loss rate: 16.96%

Run 1: Report of Copa — Data Link

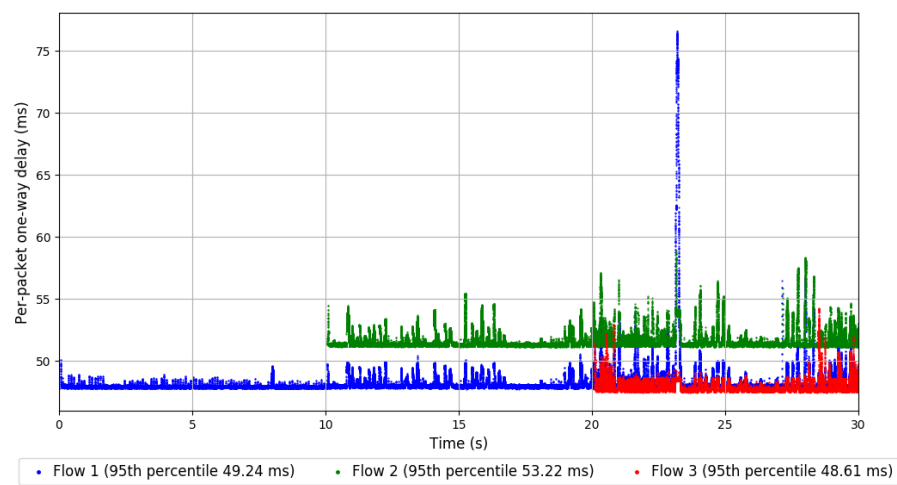
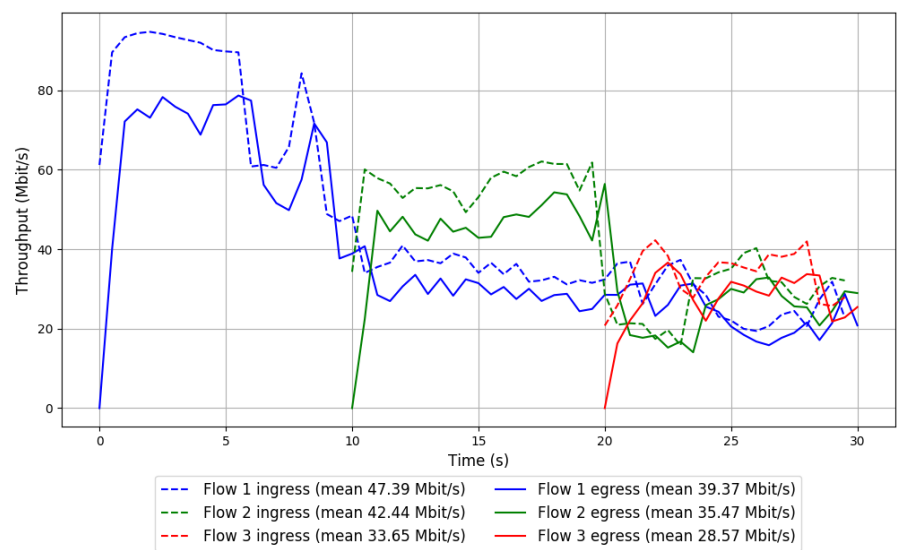


Run 2: Statistics of Copa

Start at: 2018-05-25 12:46:20
End at: 2018-05-25 12:46:50
Local clock offset: -0.871 ms
Remote clock offset: -34.39 ms

Below is generated by plot.py at 2018-05-25 15:56:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.46 Mbit/s
95th percentile per-packet one-way delay: 52.165 ms
Loss rate: 16.64%
-- Flow 1:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 49.241 ms
Loss rate: 17.00%
-- Flow 2:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 53.221 ms
Loss rate: 16.55%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 48.609 ms
Loss rate: 15.34%

Run 2: Report of Copa — Data Link

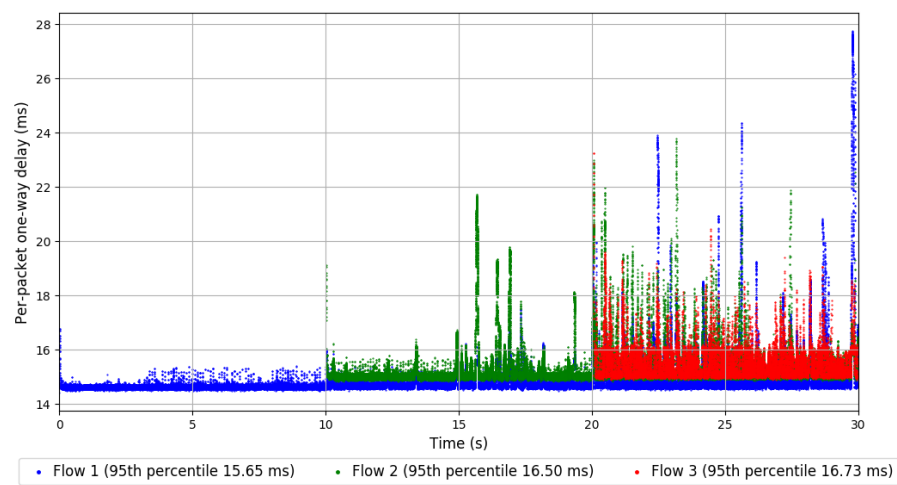
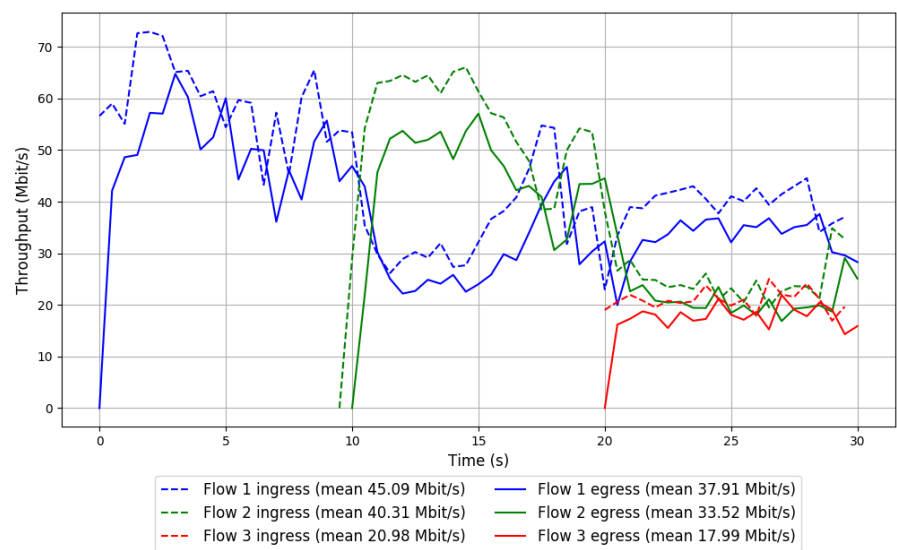


Run 3: Statistics of Copa

Start at: 2018-05-25 13:08:48
End at: 2018-05-25 13:09:18
Local clock offset: -0.196 ms
Remote clock offset: -2.664 ms

Below is generated by plot.py at 2018-05-25 15:56:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.21 Mbit/s
95th percentile per-packet one-way delay: 16.049 ms
Loss rate: 16.18%
-- Flow 1:
Average throughput: 37.91 Mbit/s
95th percentile per-packet one-way delay: 15.649 ms
Loss rate: 15.98%
-- Flow 2:
Average throughput: 33.52 Mbit/s
95th percentile per-packet one-way delay: 16.495 ms
Loss rate: 16.96%
-- Flow 3:
Average throughput: 17.99 Mbit/s
95th percentile per-packet one-way delay: 16.732 ms
Loss rate: 14.48%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 13:31:17

End at: 2018-05-25 13:31:47

Local clock offset: 0.013 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-25 15:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 13.235 ms

Loss rate: 17.61%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.946 ms

Loss rate: 50.00%

-- Flow 2:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 13.247 ms

Loss rate: 17.42%

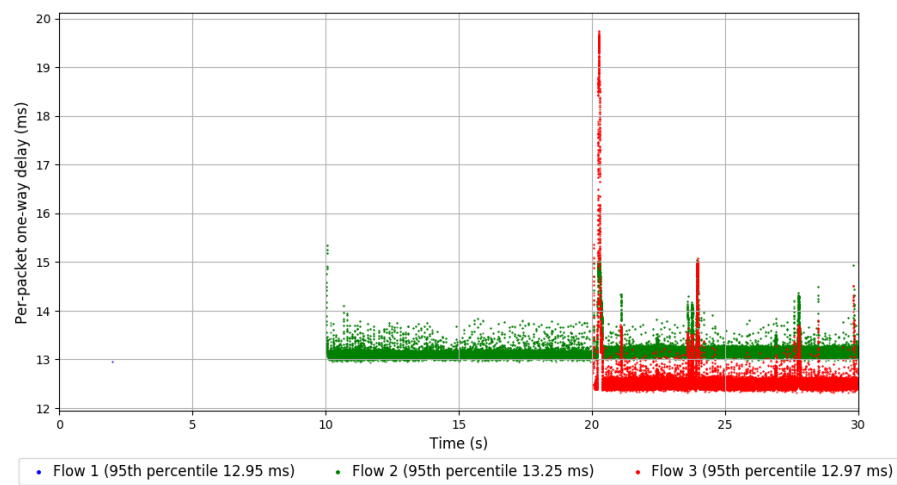
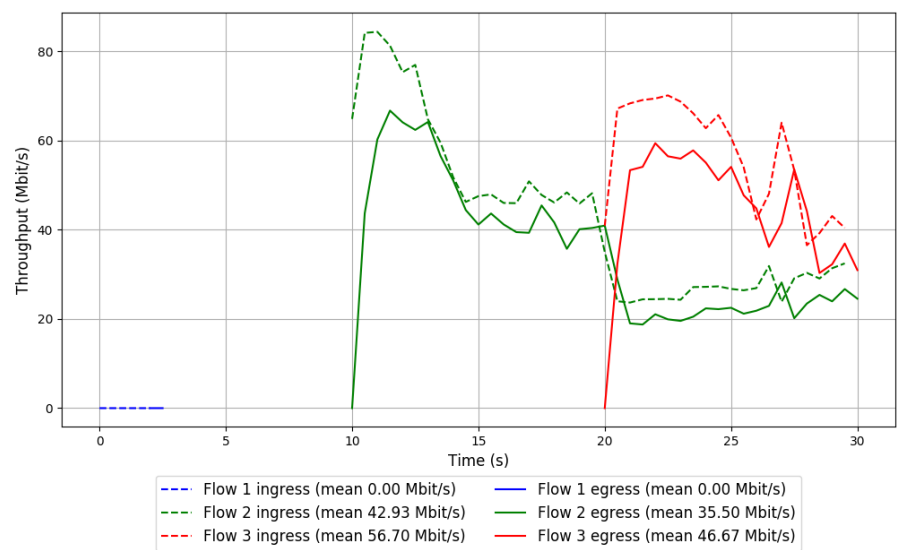
-- Flow 3:

Average throughput: 46.67 Mbit/s

95th percentile per-packet one-way delay: 12.970 ms

Loss rate: 17.89%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-25 13:53:49

End at: 2018-05-25 13:54:19

Local clock offset: -1.845 ms

Remote clock offset: 1.259 ms

Below is generated by plot.py at 2018-05-25 15:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 13.327 ms

Loss rate: 17.24%

-- Flow 1:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 13.334 ms

Loss rate: 17.39%

-- Flow 2:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 13.481 ms

Loss rate: 17.18%

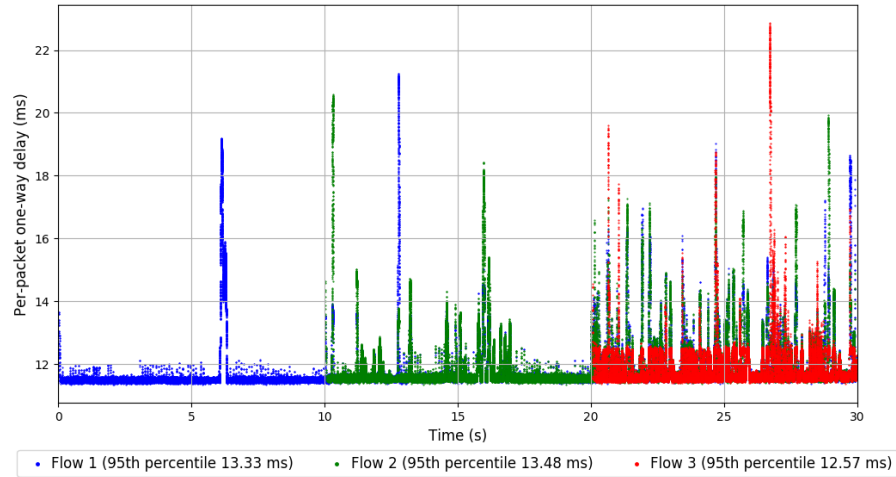
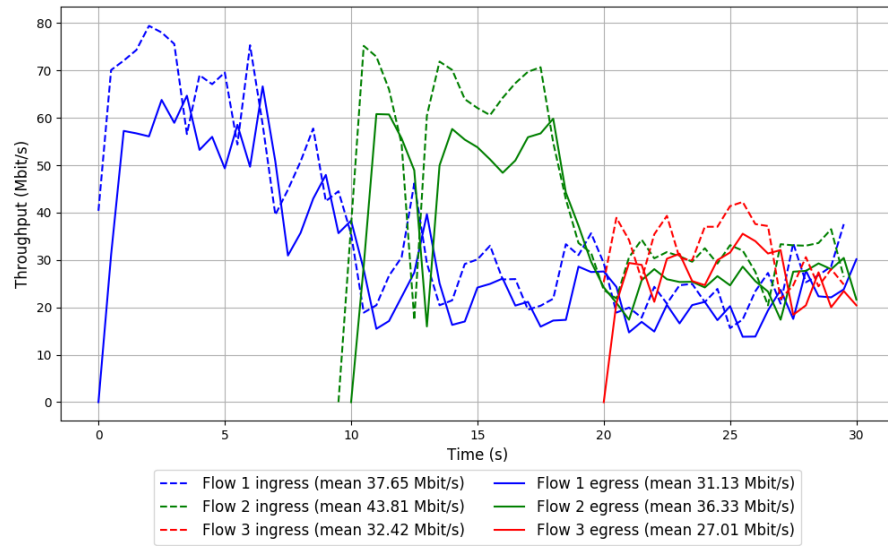
-- Flow 3:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 12.571 ms

Loss rate: 16.90%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-25 14:16:49

End at: 2018-05-25 14:17:19

Local clock offset: 0.377 ms

Remote clock offset: 3.163 ms

Below is generated by plot.py at 2018-05-25 15:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 13.803 ms

Loss rate: 17.52%

-- Flow 1:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 13.621 ms

Loss rate: 17.20%

-- Flow 2:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 14.042 ms

Loss rate: 17.78%

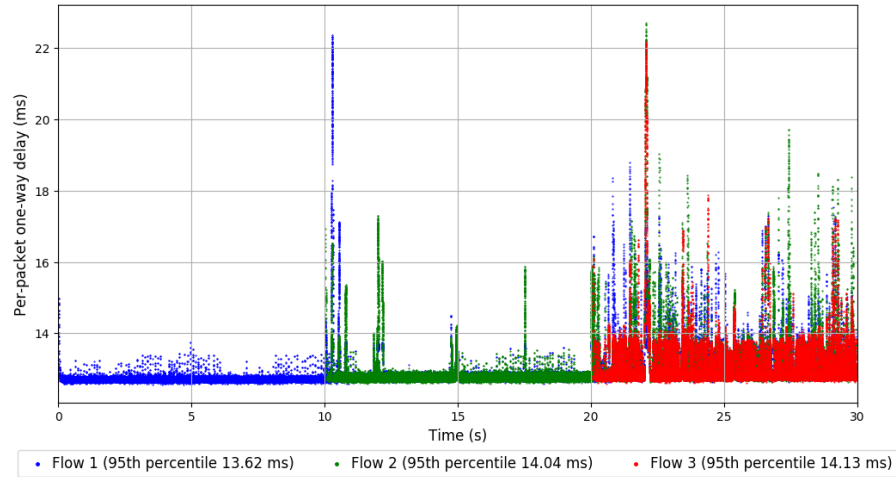
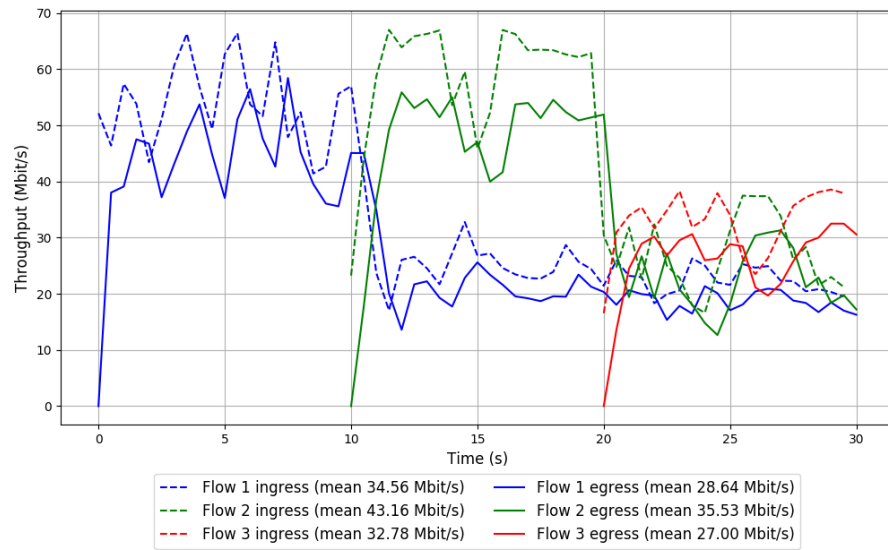
-- Flow 3:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 14.131 ms

Loss rate: 17.87%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 14:40:55

End at: 2018-05-25 14:41:25

Local clock offset: -2.215 ms

Remote clock offset: 5.912 ms

Below is generated by plot.py at 2018-05-25 15:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 10.770 ms

Loss rate: 14.32%

-- Flow 1:

Average throughput: 34.92 Mbit/s

95th percentile per-packet one-way delay: 10.286 ms

Loss rate: 14.05%

-- Flow 2:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 11.490 ms

Loss rate: 14.49%

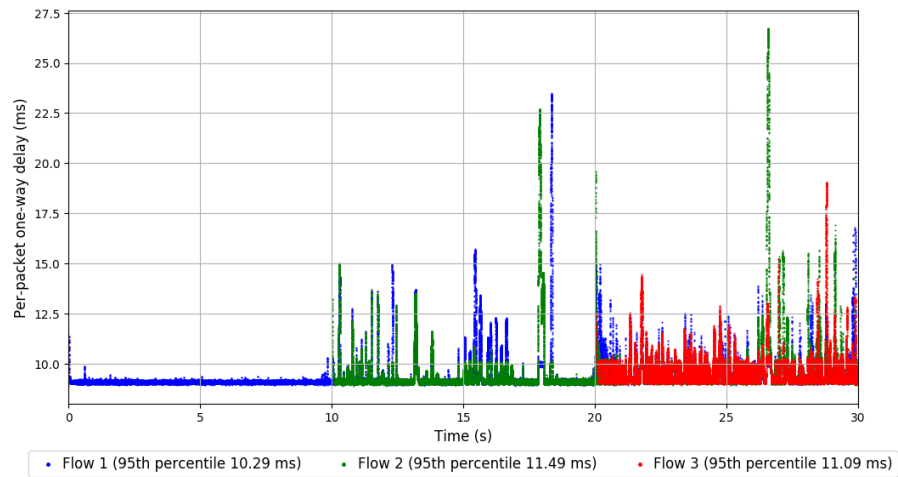
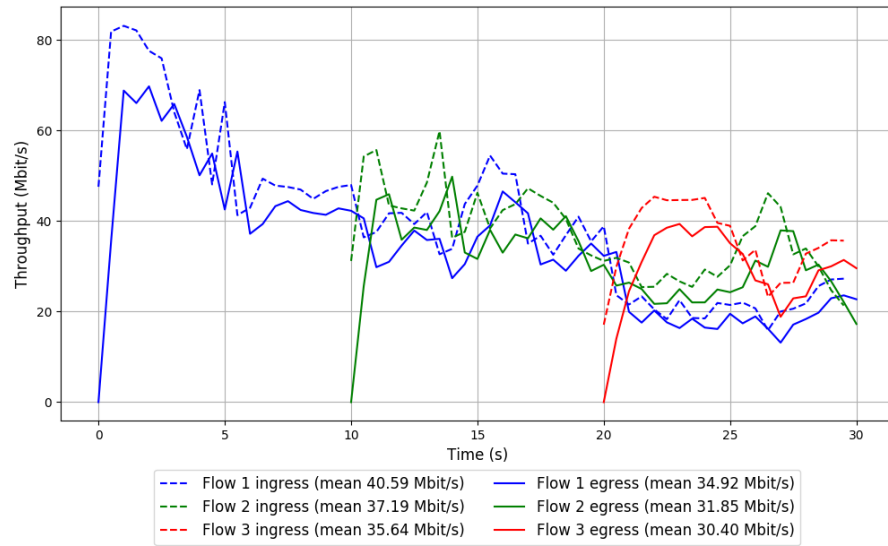
-- Flow 3:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 11.091 ms

Loss rate: 14.93%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 15:02:39

End at: 2018-05-25 15:03:09

Local clock offset: -2.438 ms

Remote clock offset: 2.818 ms

Below is generated by plot.py at 2018-05-25 15:56:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.17 Mbit/s

95th percentile per-packet one-way delay: 11.644 ms

Loss rate: 16.56%

-- Flow 1:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 10.969 ms

Loss rate: 16.53%

-- Flow 2:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 12.657 ms

Loss rate: 16.79%

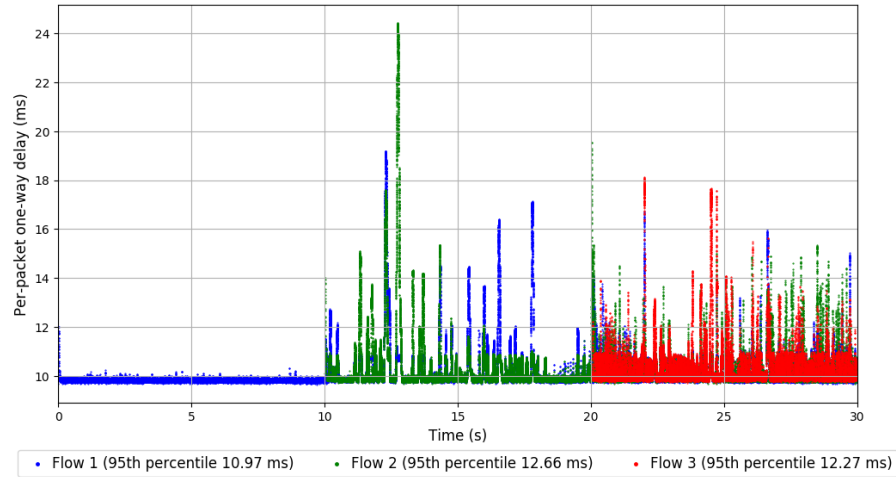
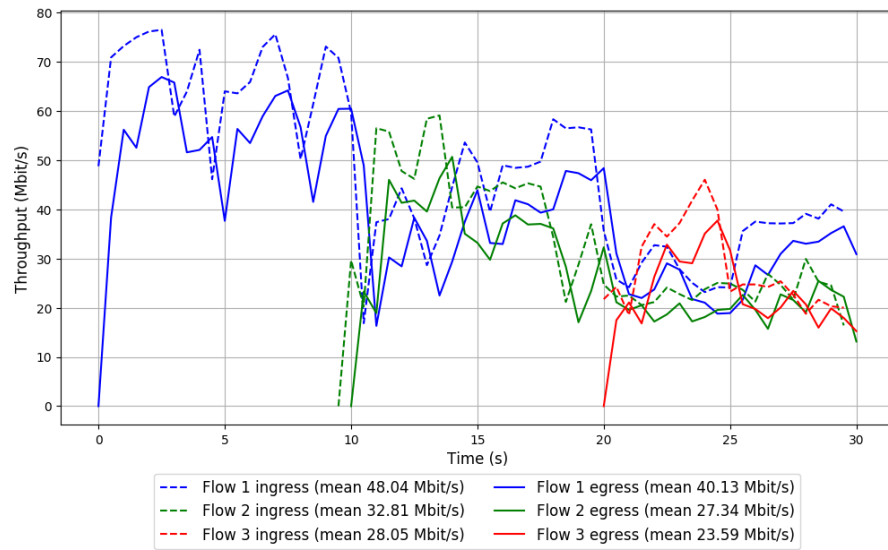
-- Flow 3:

Average throughput: 23.59 Mbit/s

95th percentile per-packet one-way delay: 12.270 ms

Loss rate: 16.14%

Run 8: Report of Copa — Data Link

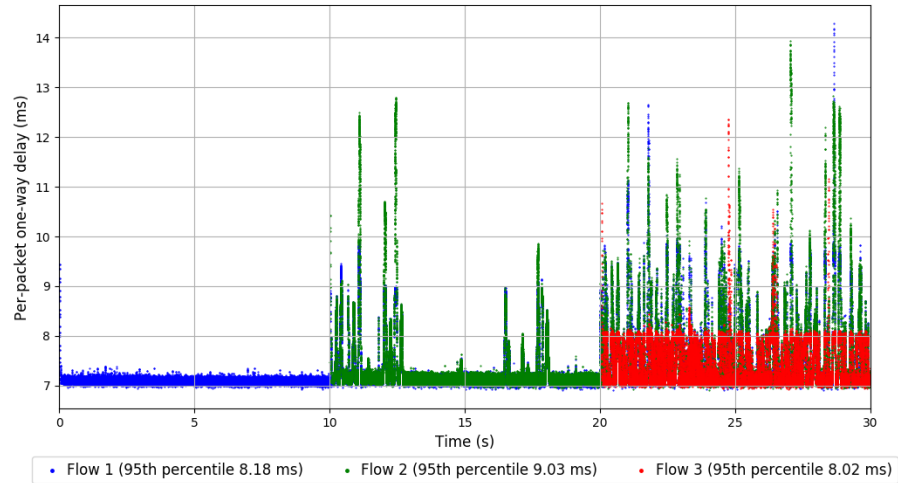
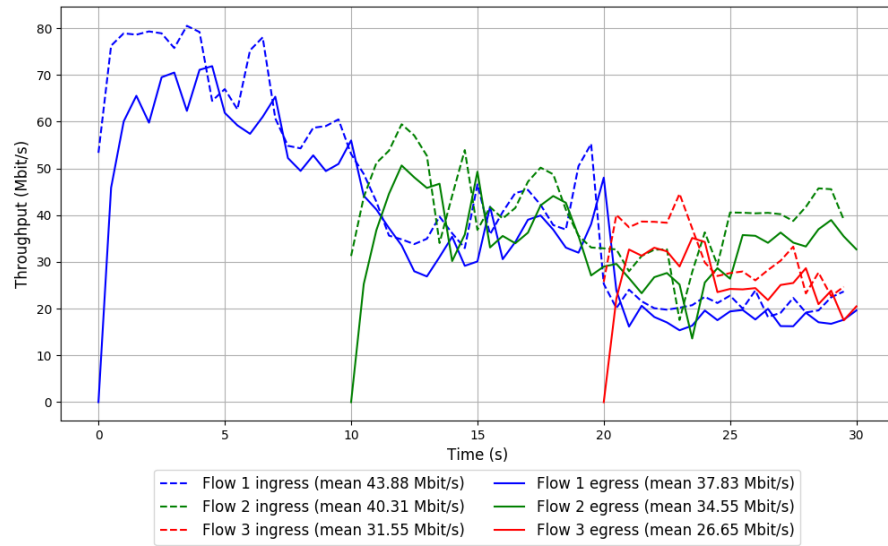


Run 9: Statistics of Copa

Start at: 2018-05-25 15:25:41
End at: 2018-05-25 15:26:11
Local clock offset: -2.837 ms
Remote clock offset: 4.173 ms

Below is generated by plot.py at 2018-05-25 15:57:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.68 Mbit/s
95th percentile per-packet one-way delay: 8.462 ms
Loss rate: 14.29%
-- Flow 1:
Average throughput: 37.83 Mbit/s
95th percentile per-packet one-way delay: 8.175 ms
Loss rate: 13.86%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 9.030 ms
Loss rate: 14.40%
-- Flow 3:
Average throughput: 26.65 Mbit/s
95th percentile per-packet one-way delay: 8.019 ms
Loss rate: 15.77%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-25 15:47:20

End at: 2018-05-25 15:47:50

Local clock offset: -2.571 ms

Remote clock offset: 3.003 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 8.132 ms

Loss rate: 16.53%

-- Flow 1:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 7.747 ms

Loss rate: 15.69%

-- Flow 2:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 8.094 ms

Loss rate: 17.49%

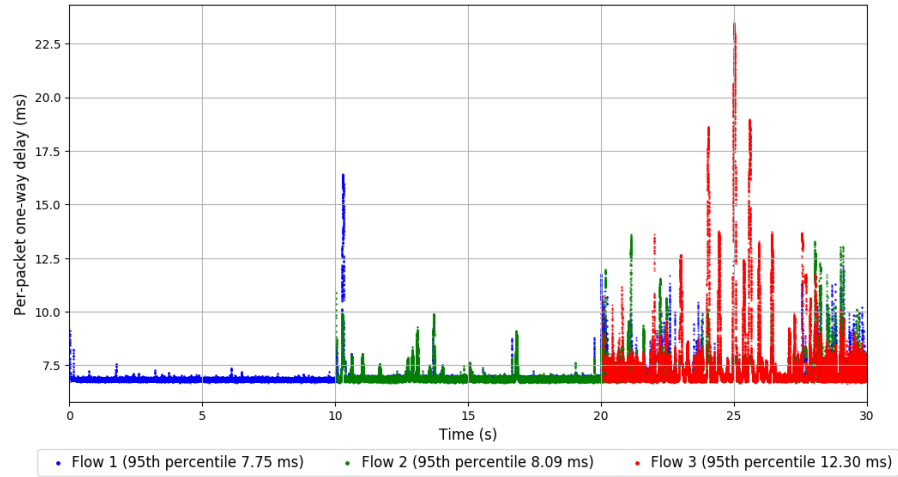
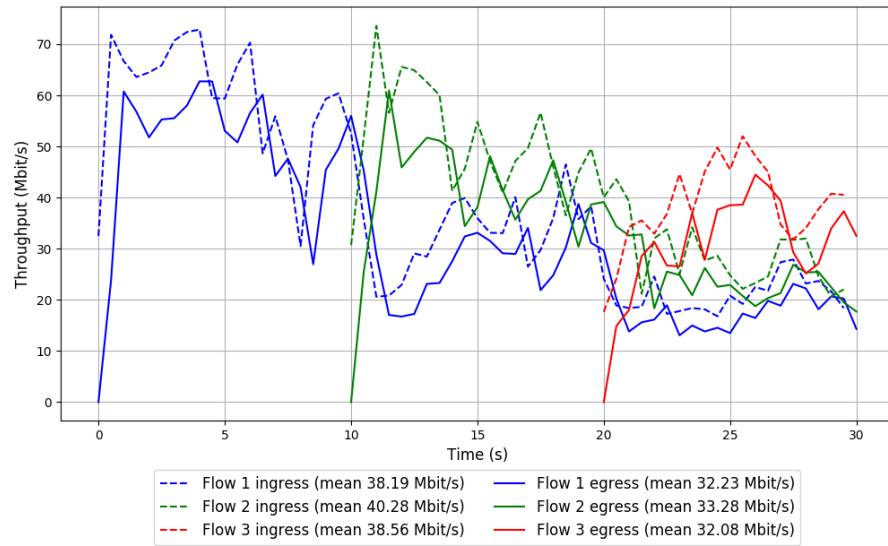
-- Flow 3:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 12.304 ms

Loss rate: 17.03%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 12:22:37

End at: 2018-05-25 12:23:07

Local clock offset: -1.081 ms

Remote clock offset: 5.718 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 12.398 ms

Loss rate: 9.99%

-- Flow 1:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 12.489 ms

Loss rate: 10.93%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 11.354 ms

Loss rate: 8.95%

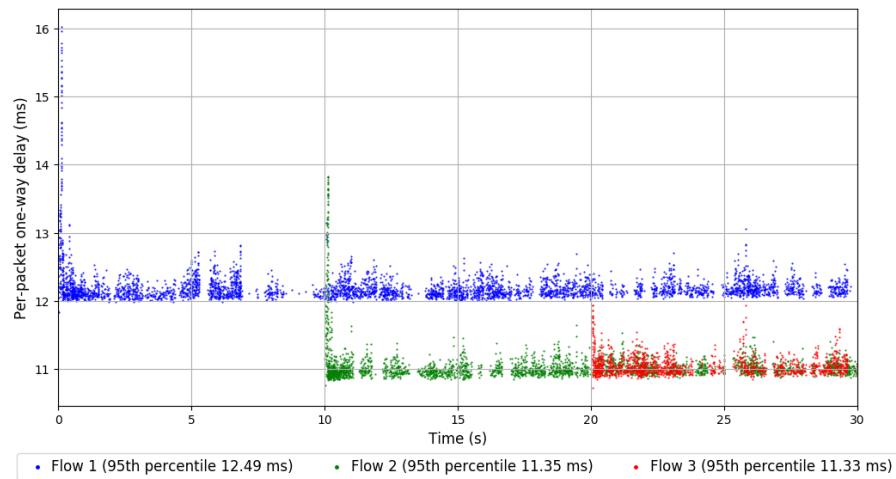
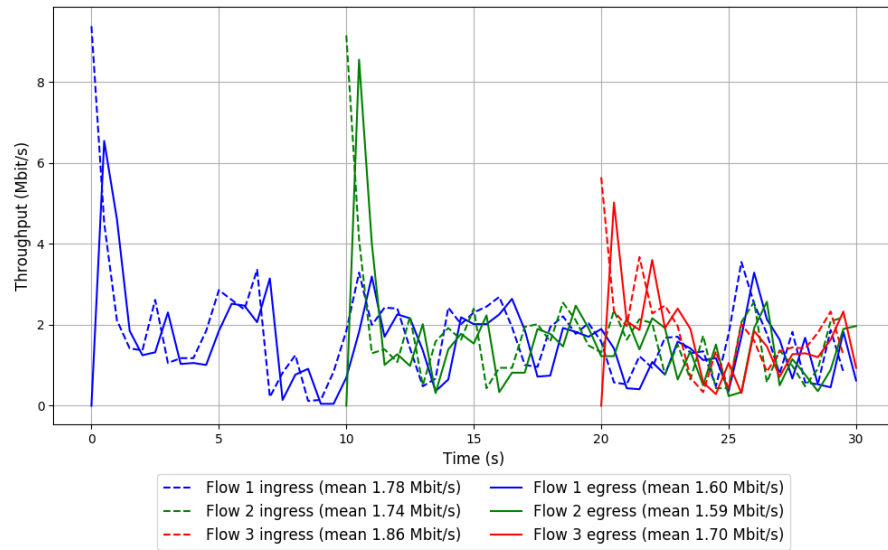
-- Flow 3:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 11.326 ms

Loss rate: 9.24%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 12:45:07

End at: 2018-05-25 12:45:37

Local clock offset: -0.848 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 14.271 ms

Loss rate: 4.30%

-- Flow 1:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 14.227 ms

Loss rate: 4.12%

-- Flow 2:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 13.400 ms

Loss rate: 4.42%

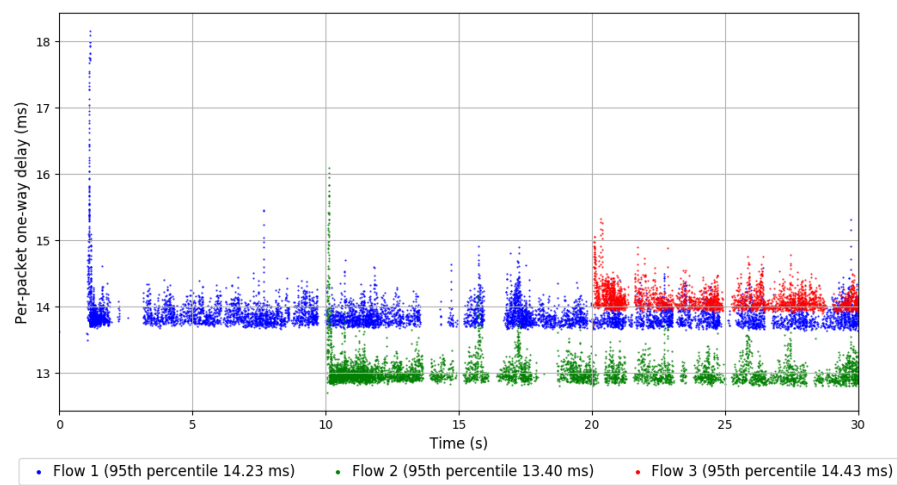
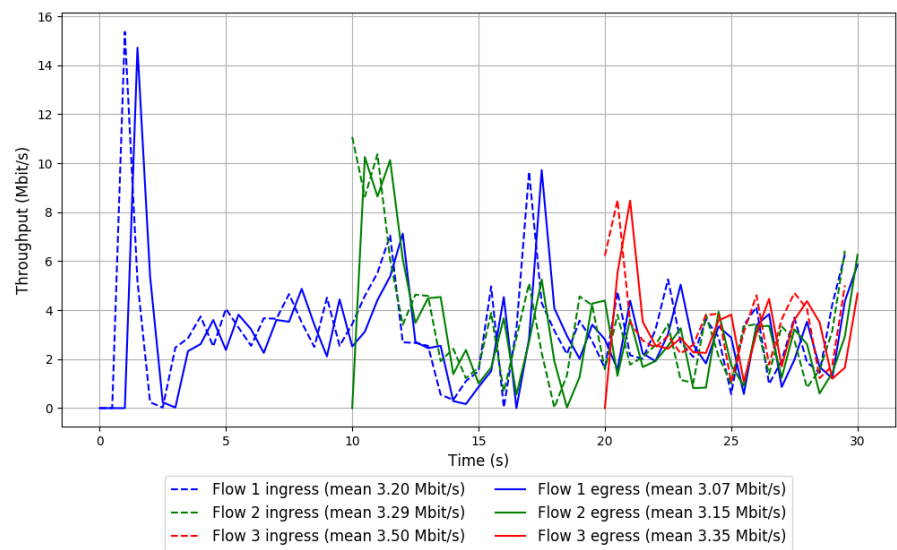
-- Flow 3:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 14.428 ms

Loss rate: 4.54%

Run 2: Report of TCP Cubic — Data Link

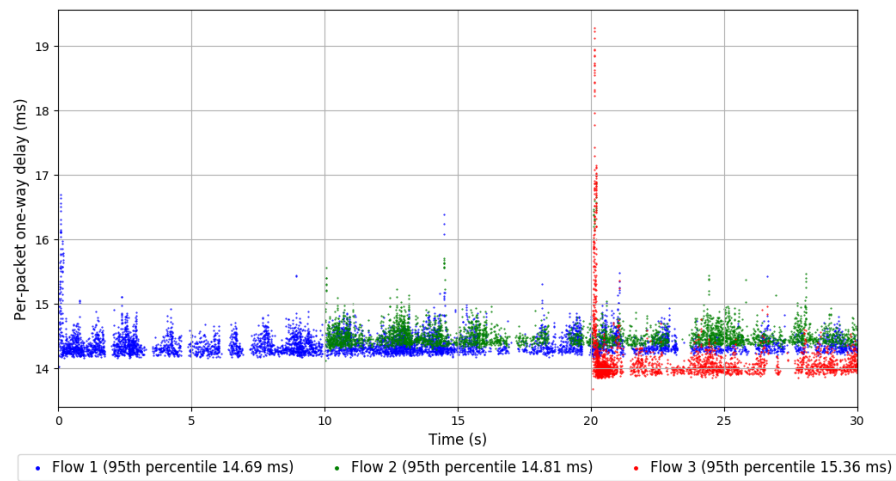
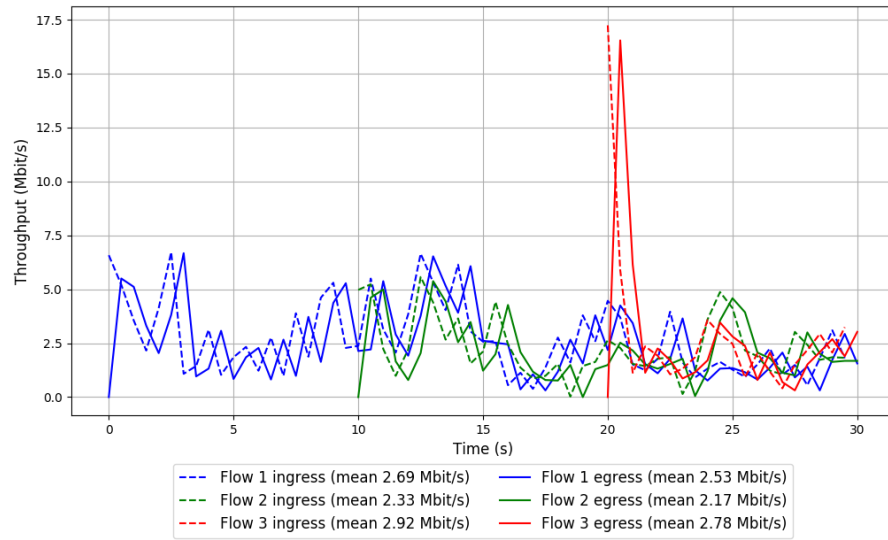


Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 13:07:39
End at: 2018-05-25 13:08:09
Local clock offset: 0.455 ms
Remote clock offset: -1.382 ms

Below is generated by plot.py at 2018-05-25 15:57:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 14.769 ms
Loss rate: 6.11%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 14.691 ms
Loss rate: 6.11%
-- Flow 2:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 14.807 ms
Loss rate: 6.74%
-- Flow 3:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 15.360 ms
Loss rate: 5.12%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 13:30:05

End at: 2018-05-25 13:30:35

Local clock offset: -0.269 ms

Remote clock offset: 4.435 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 9.501 ms

Loss rate: 9.49%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 9.319 ms

Loss rate: 8.15%

-- Flow 2:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 9.620 ms

Loss rate: 9.20%

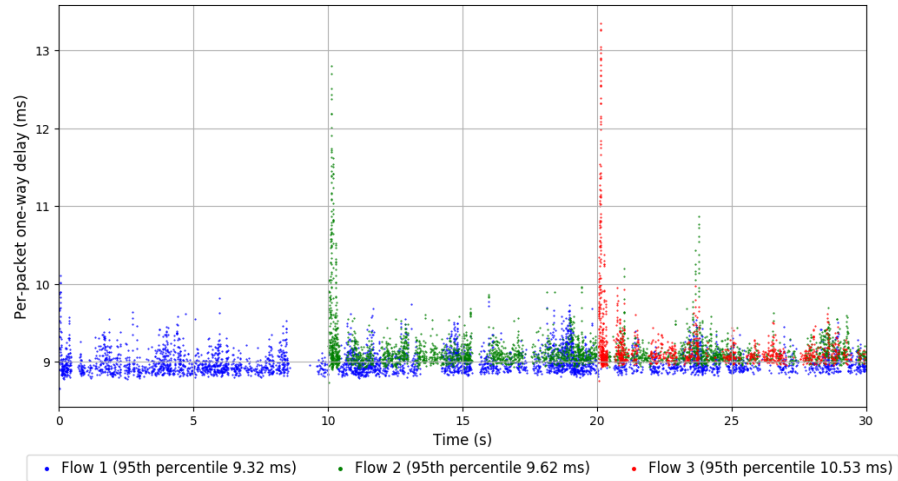
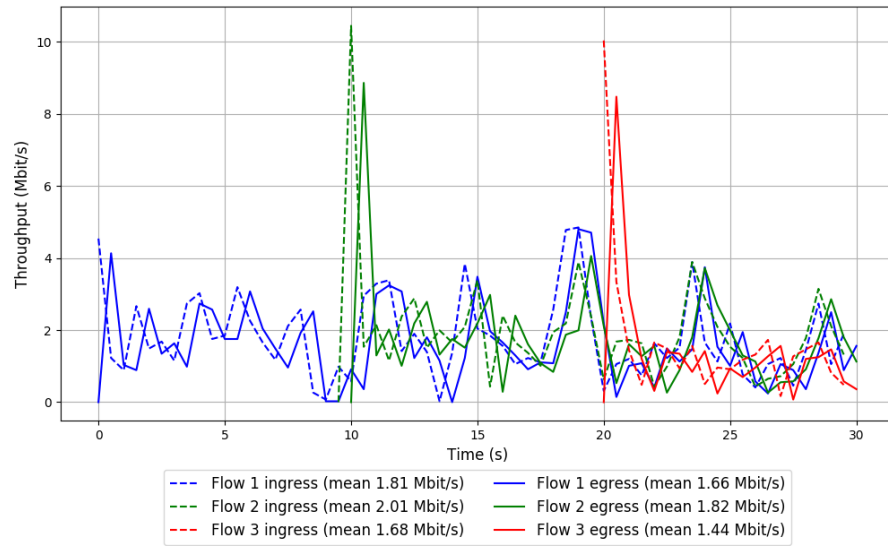
-- Flow 3:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 10.534 ms

Loss rate: 14.52%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 13:52:40

End at: 2018-05-25 13:53:10

Local clock offset: -2.085 ms

Remote clock offset: 0.68 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 14.696 ms

Loss rate: 10.73%

-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 12.699 ms

Loss rate: 9.47%

-- Flow 2:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 18.085 ms

Loss rate: 12.02%

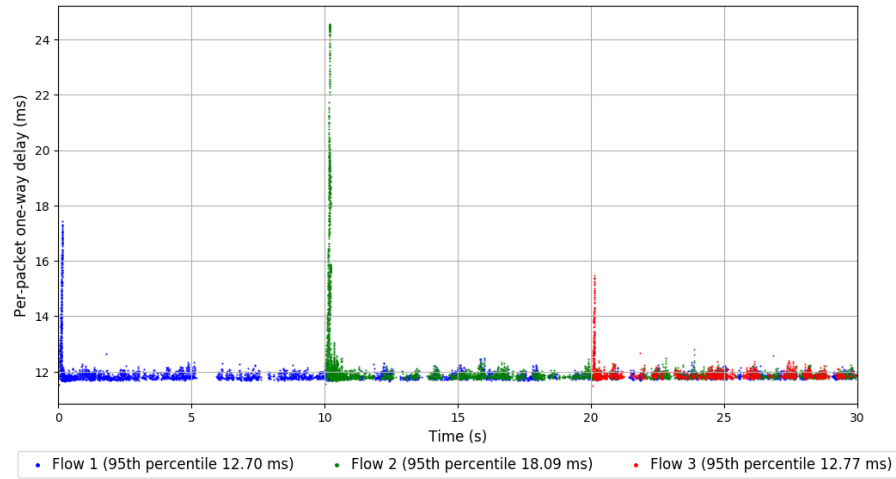
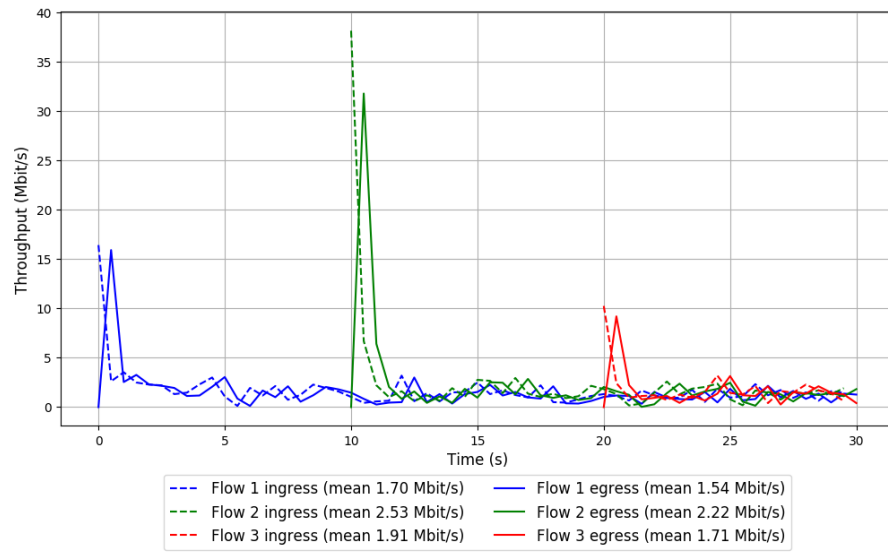
-- Flow 3:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 12.766 ms

Loss rate: 10.68%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 14:15:40

End at: 2018-05-25 14:16:10

Local clock offset: -2.598 ms

Remote clock offset: 3.089 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 10.314 ms

Loss rate: 7.01%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 10.240 ms

Loss rate: 5.48%

-- Flow 2:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 10.495 ms

Loss rate: 8.67%

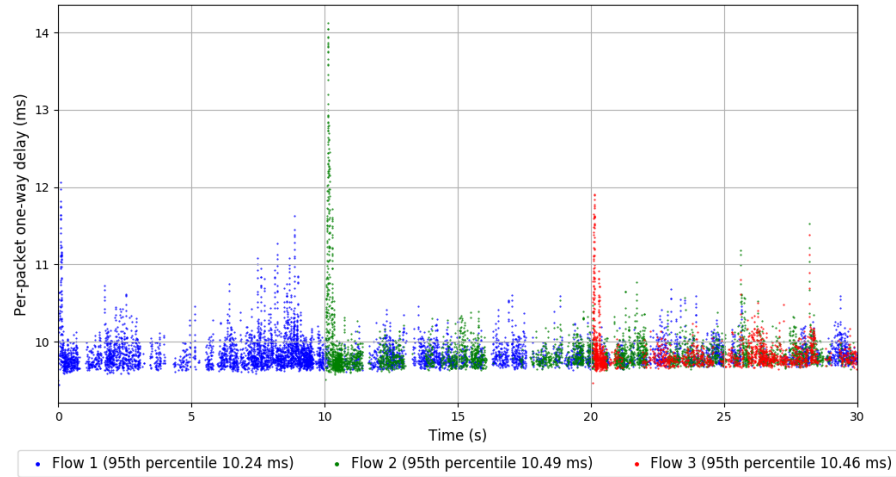
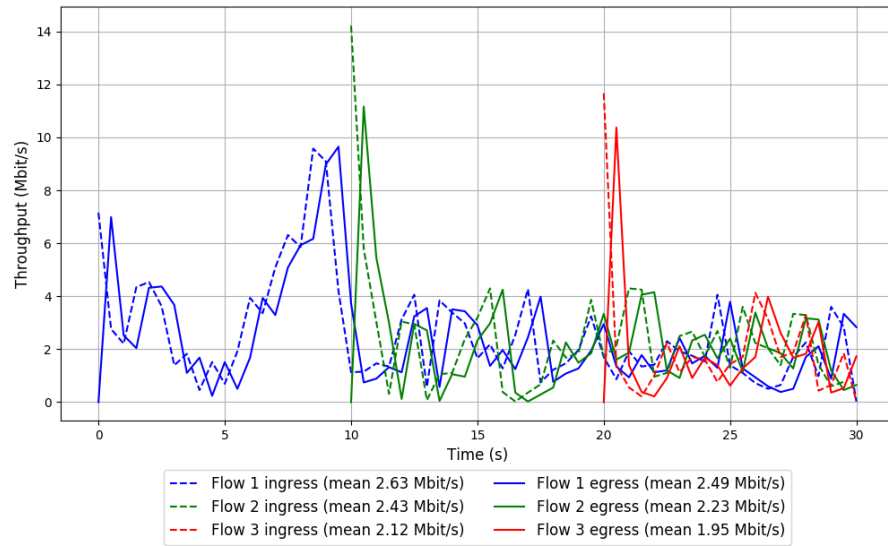
-- Flow 3:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 10.463 ms

Loss rate: 8.92%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 14:39:48

End at: 2018-05-25 14:40:18

Local clock offset: -2.757 ms

Remote clock offset: 6.205 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 10.497 ms

Loss rate: 8.15%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 10.585 ms

Loss rate: 7.64%

-- Flow 2:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 8.599 ms

Loss rate: 7.79%

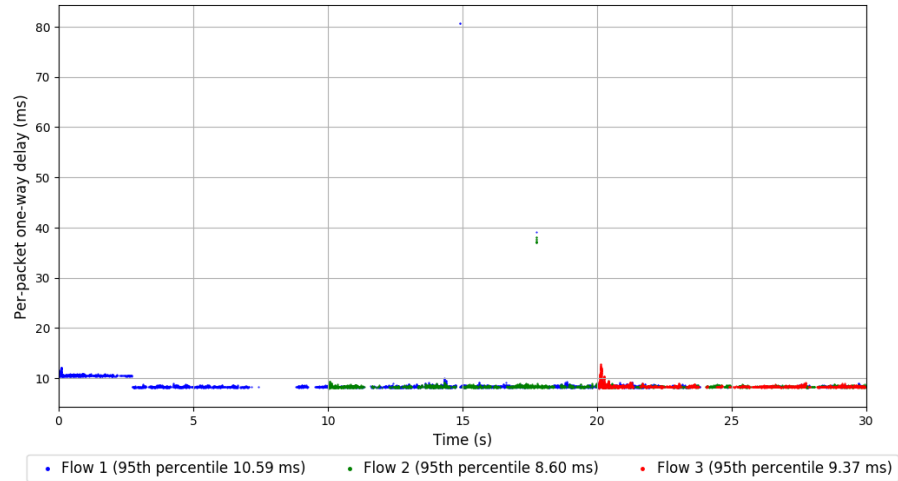
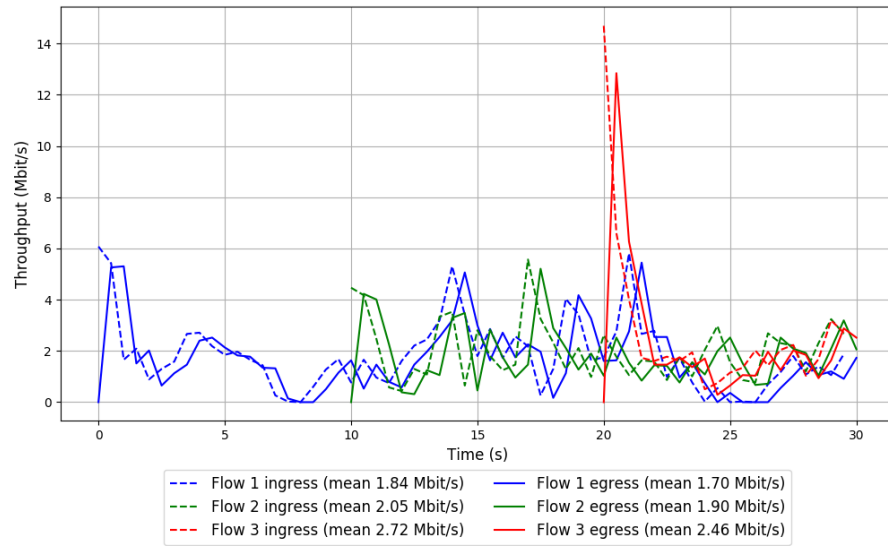
-- Flow 3:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 9.365 ms

Loss rate: 9.77%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 15:01:27

End at: 2018-05-25 15:01:57

Local clock offset: -1.254 ms

Remote clock offset: 2.794 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 12.431 ms

Loss rate: 10.28%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 12.842 ms

Loss rate: 11.21%

-- Flow 2:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 12.862 ms

Loss rate: 8.90%

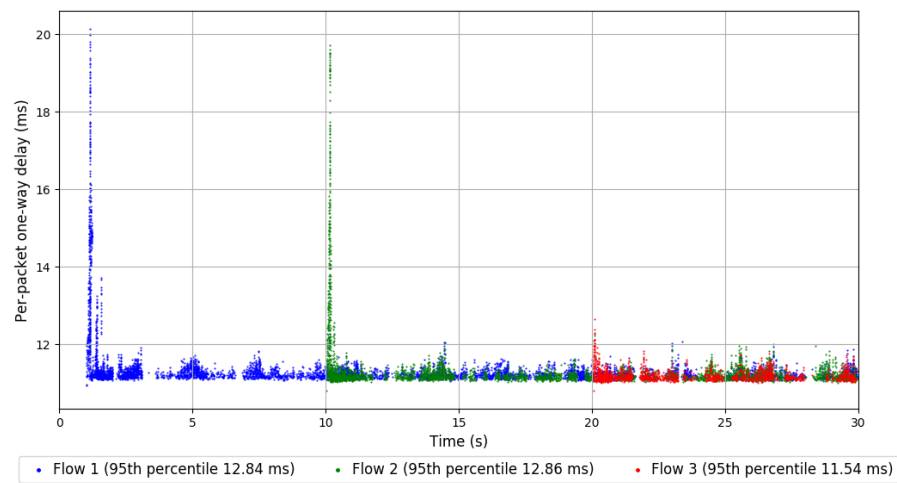
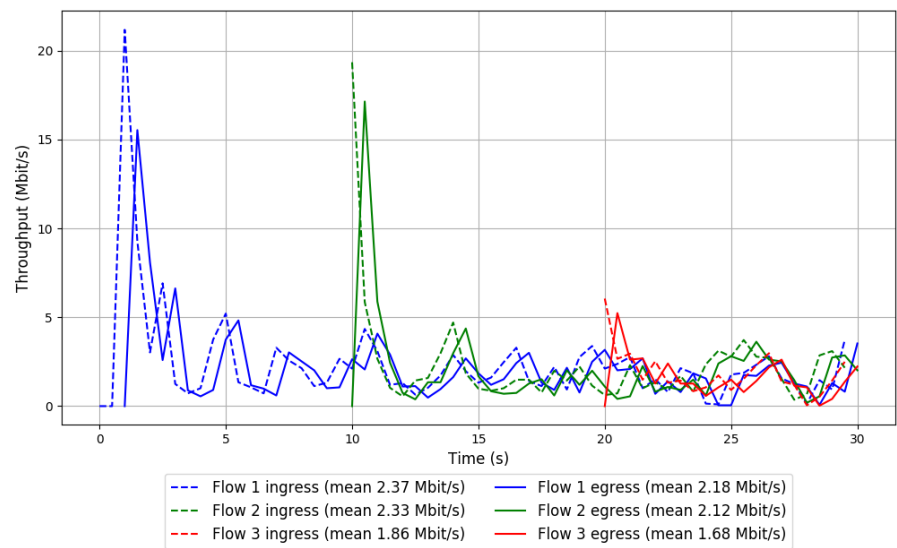
-- Flow 3:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 11.542 ms

Loss rate: 10.21%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 15:24:33

End at: 2018-05-25 15:25:03

Local clock offset: -2.601 ms

Remote clock offset: 4.567 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 7.966 ms

Loss rate: 6.16%

-- Flow 1:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 7.564 ms

Loss rate: 4.81%

-- Flow 2:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 10.299 ms

Loss rate: 6.77%

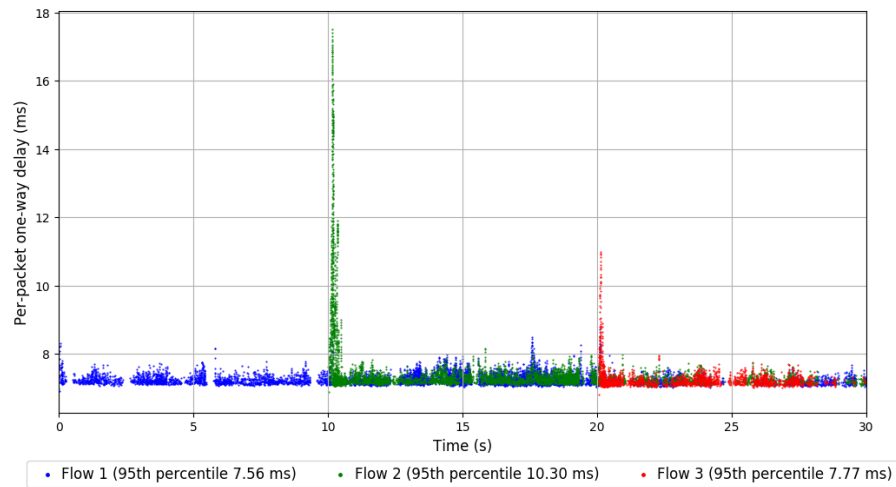
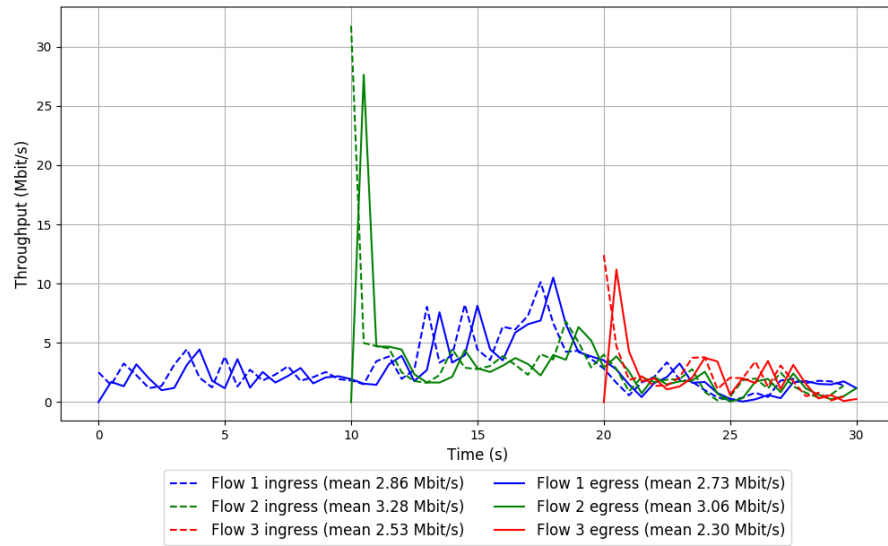
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 7.770 ms

Loss rate: 9.21%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 15:46:12

End at: 2018-05-25 15:46:42

Local clock offset: -0.209 ms

Remote clock offset: 3.541 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 9.551 ms

Loss rate: 10.22%

-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 9.917 ms

Loss rate: 11.08%

-- Flow 2:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 9.118 ms

Loss rate: 9.48%

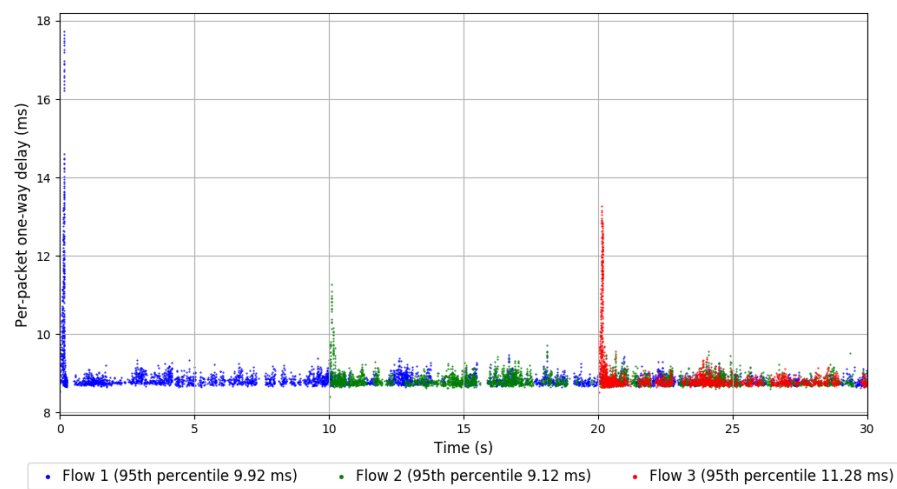
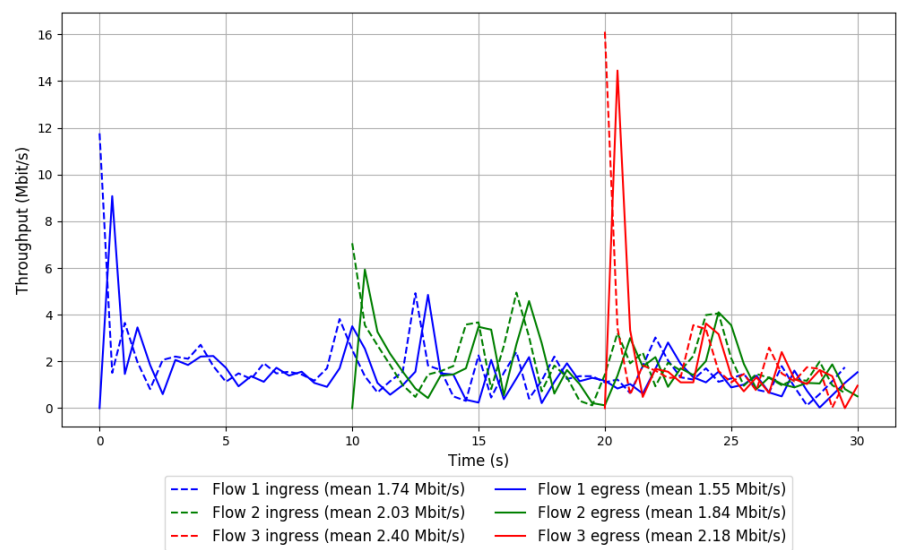
-- Flow 3:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 11.279 ms

Loss rate: 9.59%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 12:25:52

End at: 2018-05-25 12:26:22

Local clock offset: 1.153 ms

Remote clock offset: 5.817 ms

Below is generated by plot.py at 2018-05-25 15:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.01 Mbit/s

95th percentile per-packet one-way delay: 35.867 ms

Loss rate: 19.06%

-- Flow 1:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 35.316 ms

Loss rate: 19.12%

-- Flow 2:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 34.959 ms

Loss rate: 18.97%

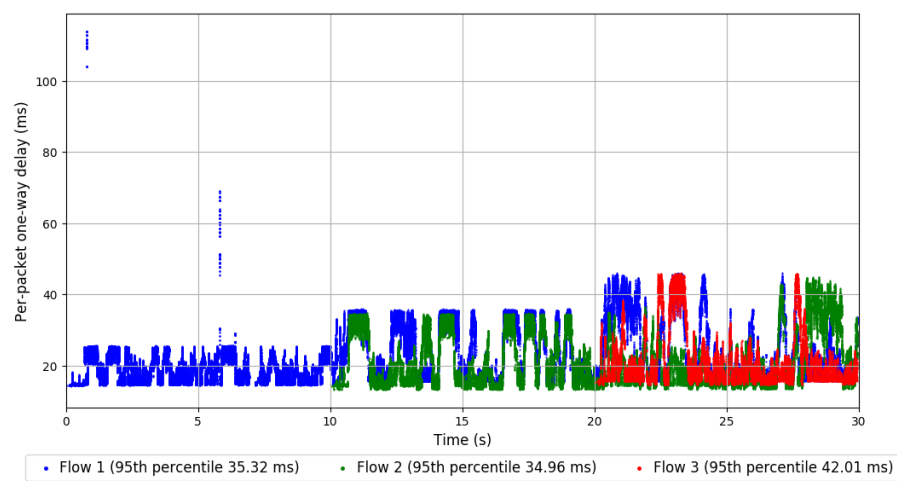
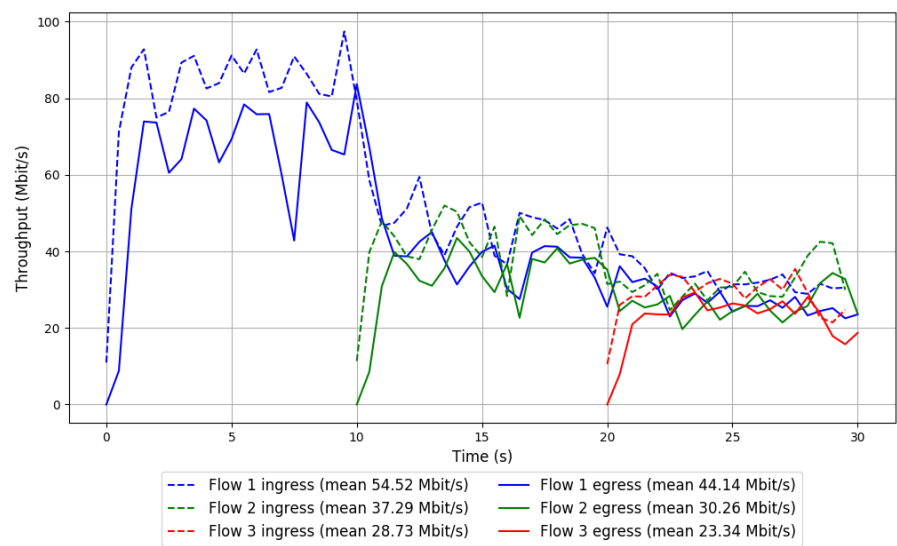
-- Flow 3:

Average throughput: 23.34 Mbit/s

95th percentile per-packet one-way delay: 42.010 ms

Loss rate: 19.03%

Run 1: Report of FillP — Data Link

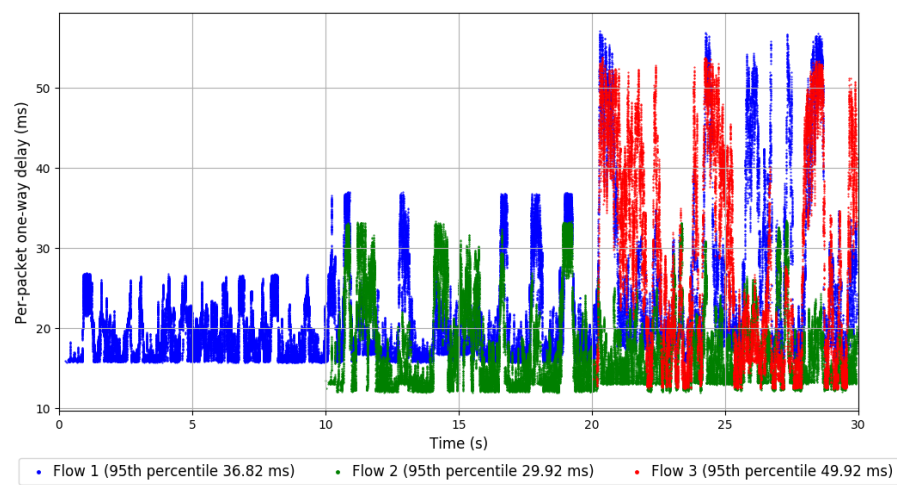
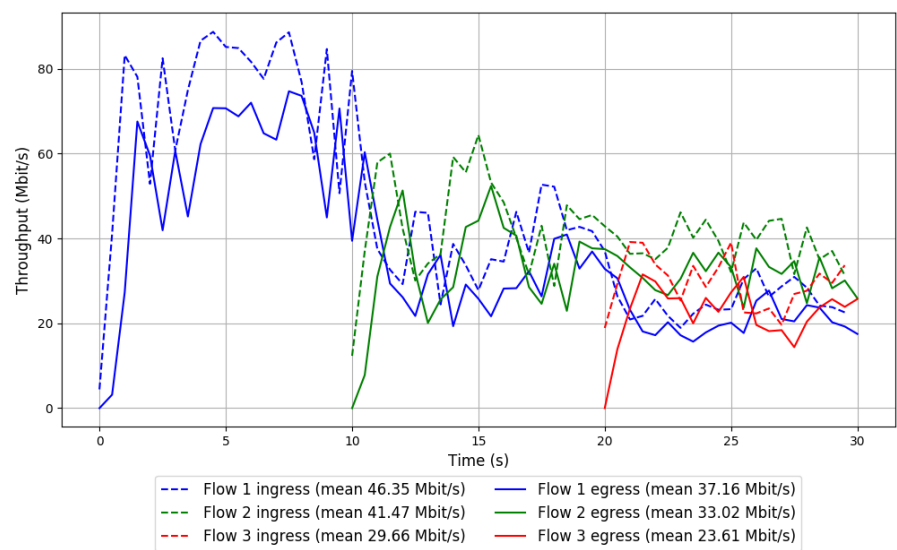


Run 2: Statistics of FillP

Start at: 2018-05-25 12:48:17
End at: 2018-05-25 12:48:47
Local clock offset: -2.743 ms
Remote clock offset: -1.221 ms

Below is generated by plot.py at 2018-05-25 15:57:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.16 Mbit/s
95th percentile per-packet one-way delay: 41.692 ms
Loss rate: 20.49%
-- Flow 1:
Average throughput: 37.16 Mbit/s
95th percentile per-packet one-way delay: 36.823 ms
Loss rate: 20.46%
-- Flow 2:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 29.920 ms
Loss rate: 20.48%
-- Flow 3:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 49.923 ms
Loss rate: 20.62%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-25 13:10:37

End at: 2018-05-25 13:11:07

Local clock offset: -2.375 ms

Remote clock offset: 4.534 ms

Below is generated by plot.py at 2018-05-25 15:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.75 Mbit/s

95th percentile per-packet one-way delay: 37.663 ms

Loss rate: 15.97%

-- Flow 1:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 24.589 ms

Loss rate: 15.67%

-- Flow 2:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 42.517 ms

Loss rate: 16.40%

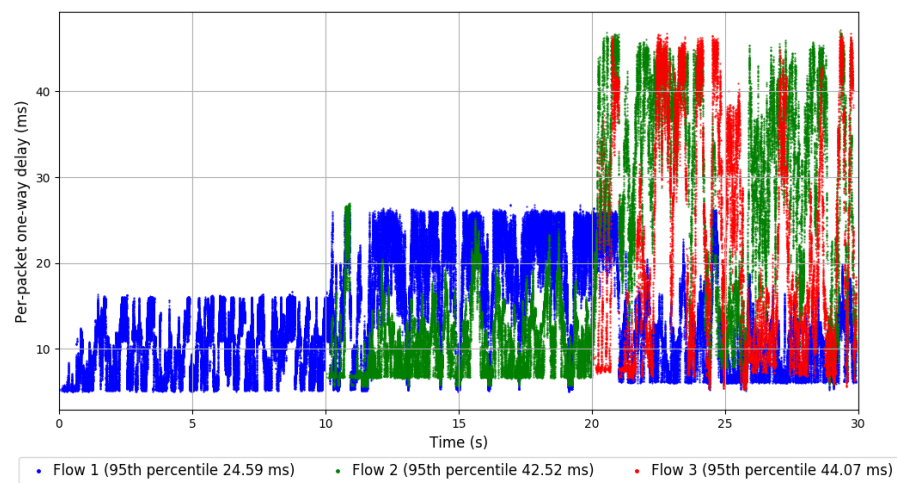
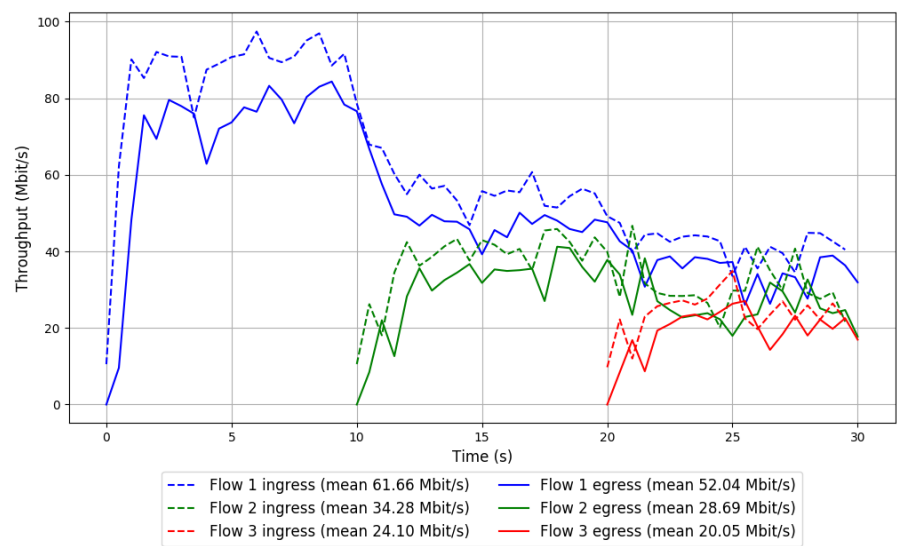
-- Flow 3:

Average throughput: 20.05 Mbit/s

95th percentile per-packet one-way delay: 44.068 ms

Loss rate: 17.05%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-25 13:32:55

End at: 2018-05-25 13:33:25

Local clock offset: 0.839 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-05-25 15:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 40.350 ms

Loss rate: 17.09%

-- Flow 1:

Average throughput: 46.38 Mbit/s

95th percentile per-packet one-way delay: 34.549 ms

Loss rate: 16.99%

-- Flow 2:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 41.927 ms

Loss rate: 17.00%

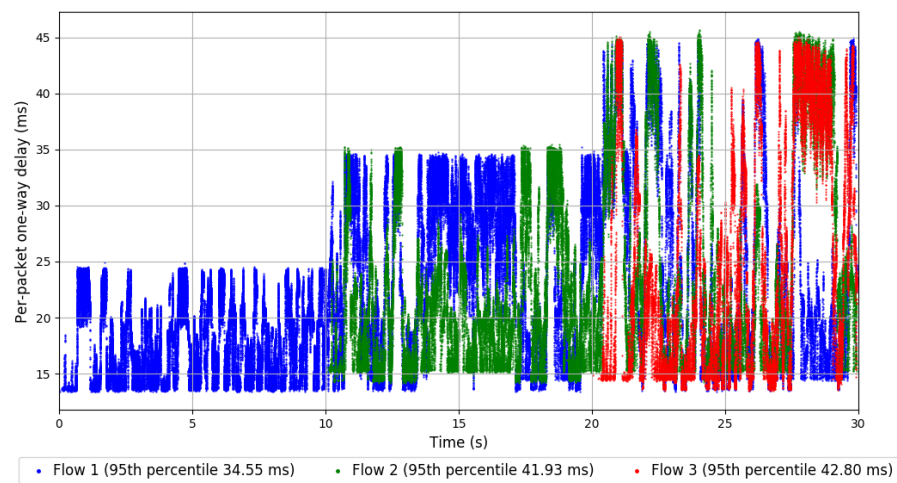
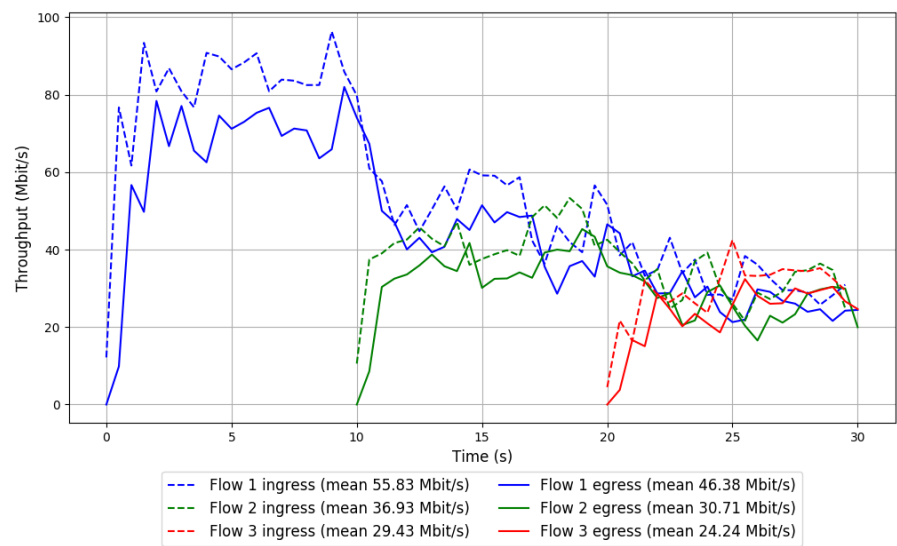
-- Flow 3:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 42.796 ms

Loss rate: 17.85%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-25 13:56:03

End at: 2018-05-25 13:56:33

Local clock offset: -2.147 ms

Remote clock offset: 1.302 ms

Below is generated by plot.py at 2018-05-25 15:57:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.88 Mbit/s

95th percentile per-packet one-way delay: 38.259 ms

Loss rate: 17.31%

-- Flow 1:

Average throughput: 45.50 Mbit/s

95th percentile per-packet one-way delay: 34.146 ms

Loss rate: 17.33%

-- Flow 2:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 38.261 ms

Loss rate: 17.36%

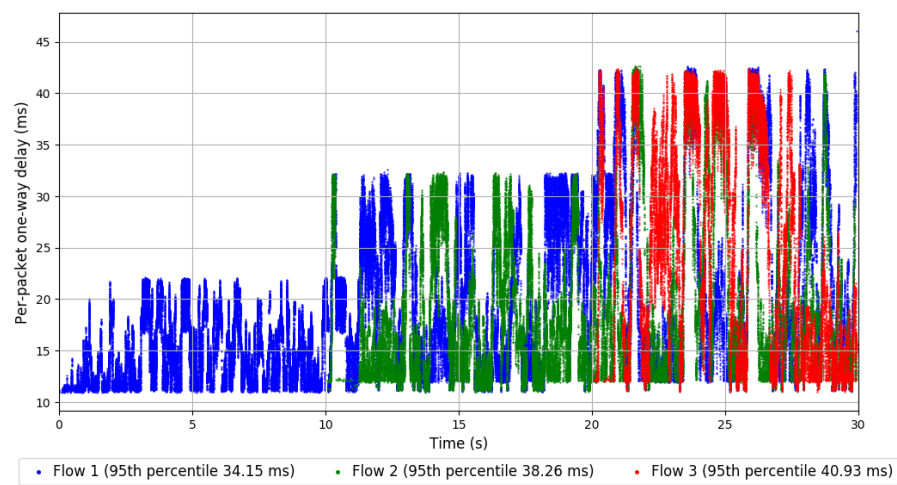
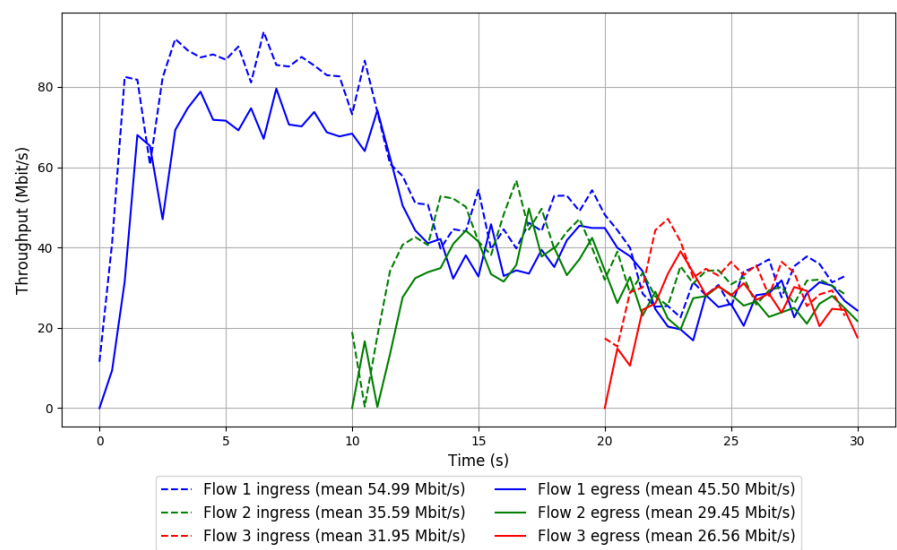
-- Flow 3:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 40.929 ms

Loss rate: 17.07%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 14:19:10

End at: 2018-05-25 14:19:40

Local clock offset: 0.649 ms

Remote clock offset: 3.552 ms

Below is generated by plot.py at 2018-05-25 15:57:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 36.718 ms

Loss rate: 19.12%

-- Flow 1:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 33.356 ms

Loss rate: 19.48%

-- Flow 2:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 37.239 ms

Loss rate: 18.54%

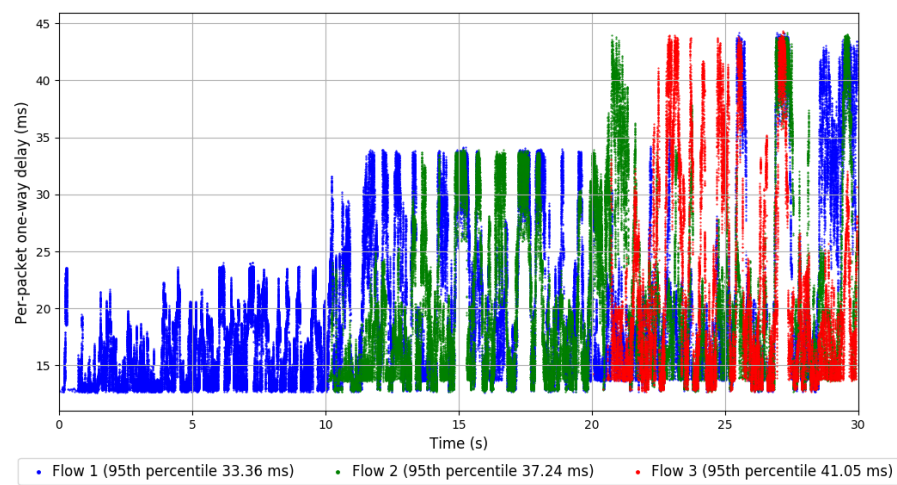
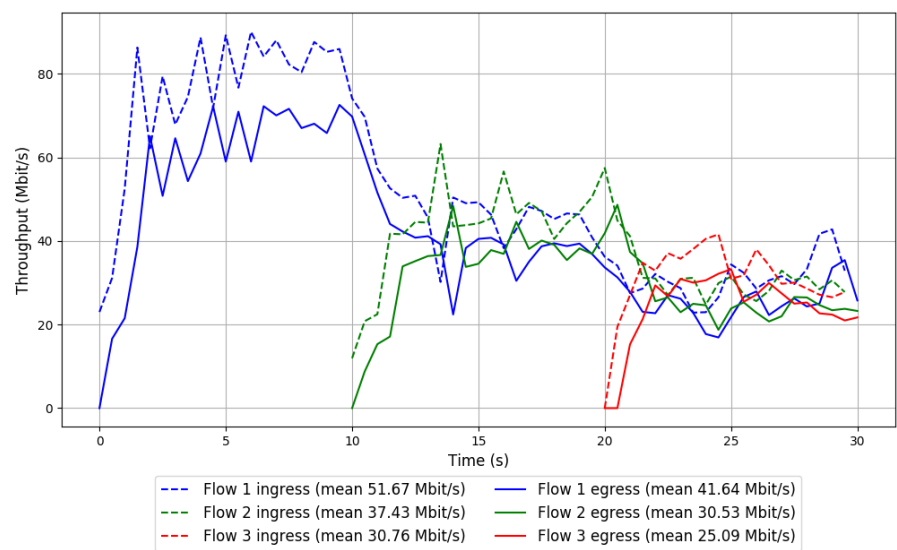
-- Flow 3:

Average throughput: 25.09 Mbit/s

95th percentile per-packet one-way delay: 41.046 ms

Loss rate: 18.67%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-25 14:42:45

End at: 2018-05-25 14:43:15

Local clock offset: -1.456 ms

Remote clock offset: 5.562 ms

Below is generated by plot.py at 2018-05-25 15:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 37.866 ms

Loss rate: 16.13%

-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 36.170 ms

Loss rate: 16.47%

-- Flow 2:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 38.464 ms

Loss rate: 15.85%

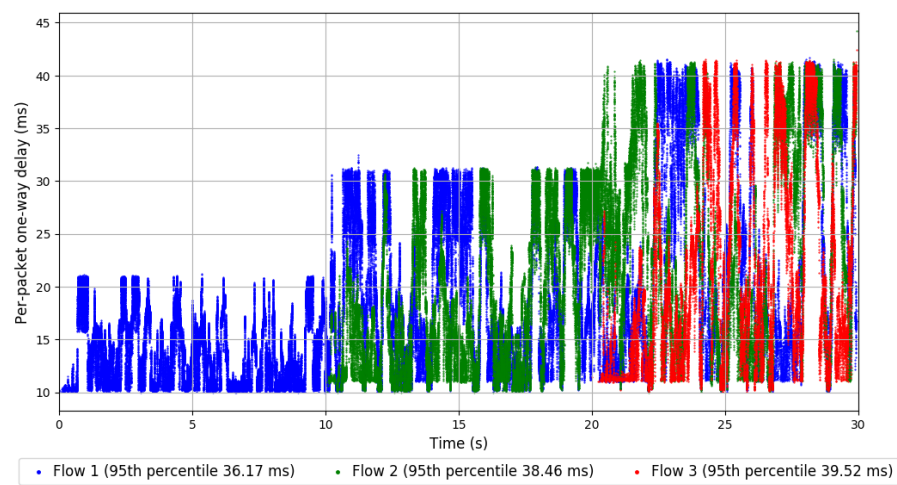
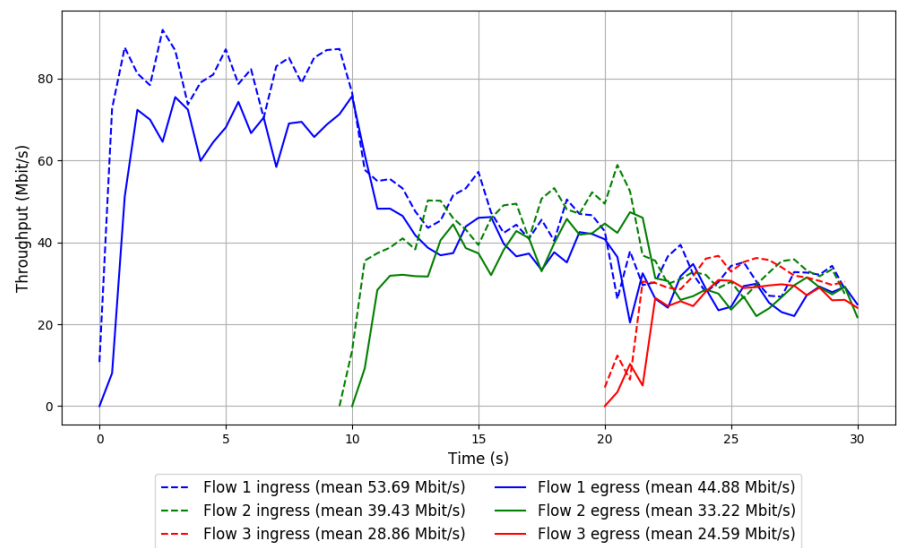
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 39.516 ms

Loss rate: 15.01%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-25 15:04:41

End at: 2018-05-25 15:05:11

Local clock offset: -2.023 ms

Remote clock offset: 3.343 ms

Below is generated by plot.py at 2018-05-25 15:58:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 40.530 ms

Loss rate: 15.17%

-- Flow 1:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 29.585 ms

Loss rate: 15.21%

-- Flow 2:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: 45.684 ms

Loss rate: 14.84%

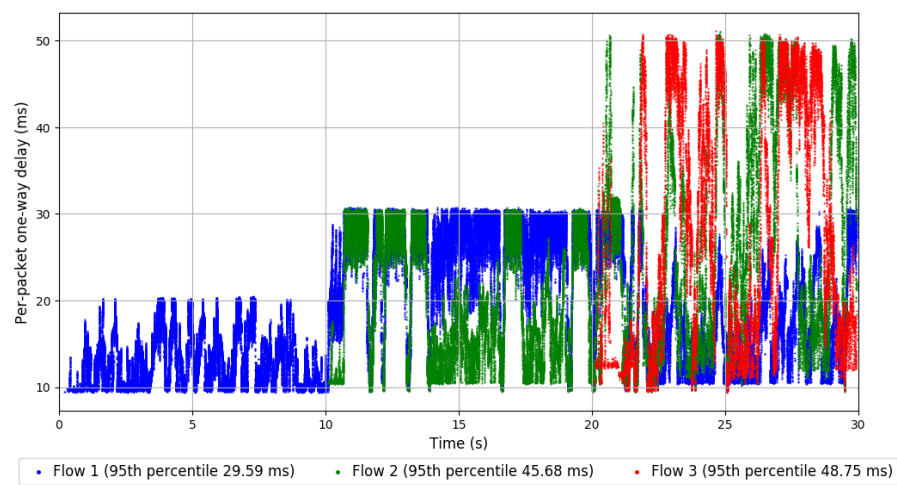
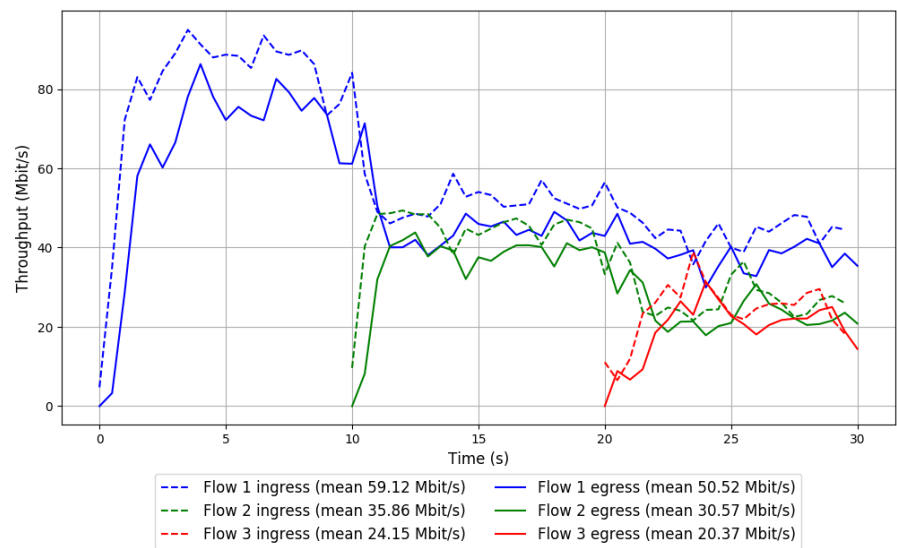
-- Flow 3:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 48.749 ms

Loss rate: 15.86%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 15:27:45

End at: 2018-05-25 15:28:15

Local clock offset: -3.164 ms

Remote clock offset: 5.516 ms

Below is generated by plot.py at 2018-05-25 15:58:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 31.952 ms

Loss rate: 18.11%

-- Flow 1:

Average throughput: 42.39 Mbit/s

95th percentile per-packet one-way delay: 26.846 ms

Loss rate: 18.48%

-- Flow 2:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 32.752 ms

Loss rate: 17.57%

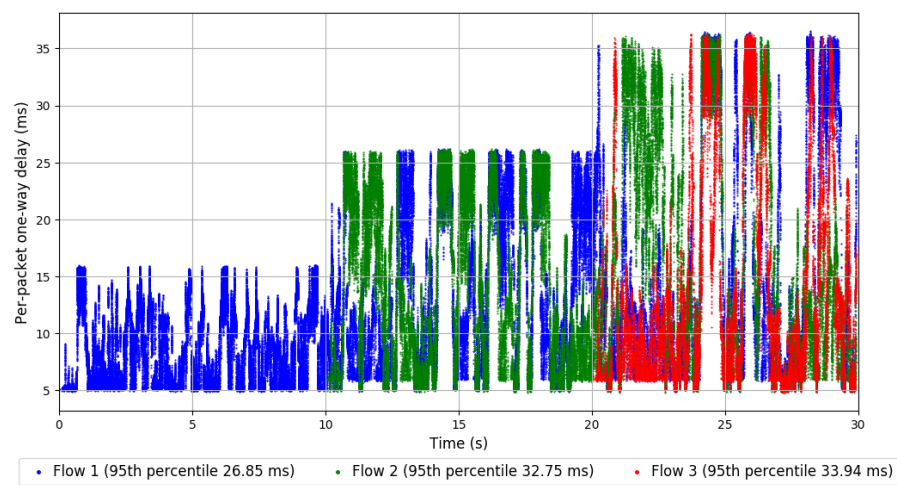
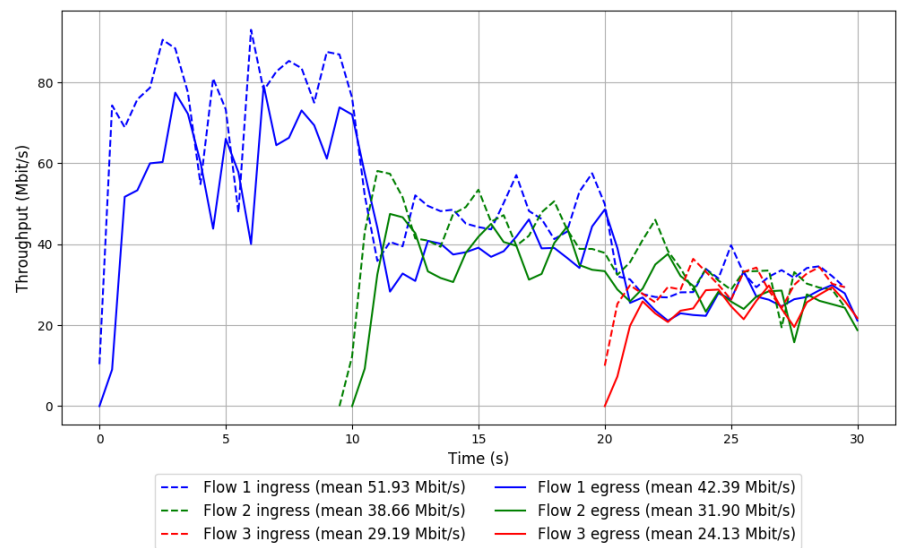
-- Flow 3:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 33.936 ms

Loss rate: 17.55%

Run 9: Report of FillP — Data Link

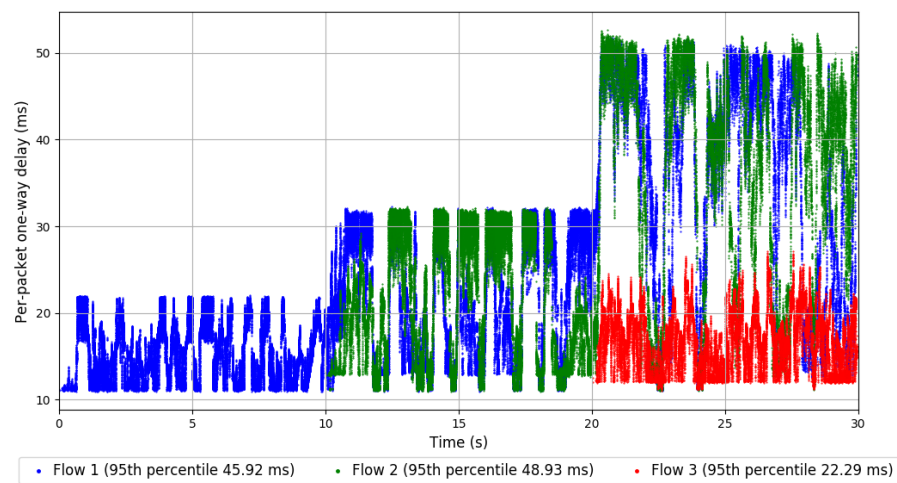
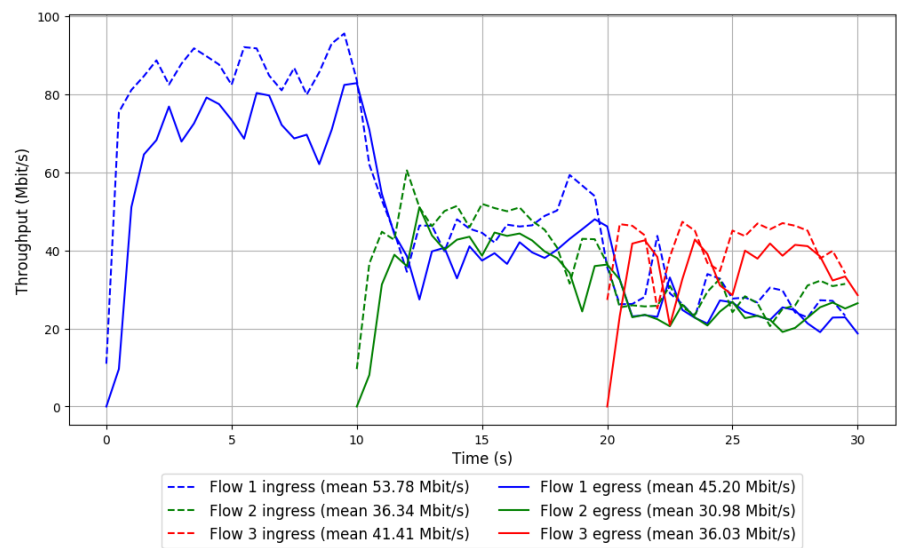


Run 10: Statistics of FillP

Start at: 2018-05-25 15:49:34
End at: 2018-05-25 15:50:04
Local clock offset: -1.907 ms
Remote clock offset: -0.802 ms

Below is generated by plot.py at 2018-05-25 15:58:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.75 Mbit/s
95th percentile per-packet one-way delay: 46.618 ms
Loss rate: 15.32%
-- Flow 1:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 45.921 ms
Loss rate: 16.05%
-- Flow 2:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 48.927 ms
Loss rate: 14.90%
-- Flow 3:
Average throughput: 36.03 Mbit/s
95th percentile per-packet one-way delay: 22.292 ms
Loss rate: 13.22%

Run 10: Report of FillP — Data Link

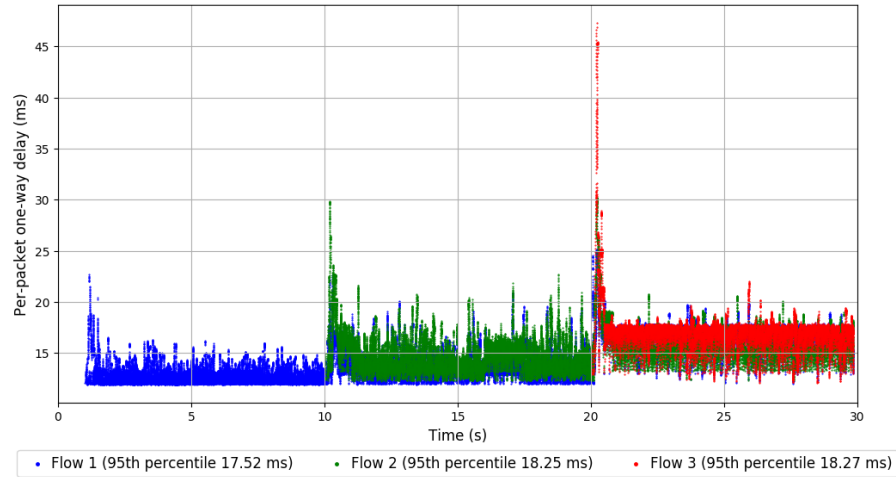
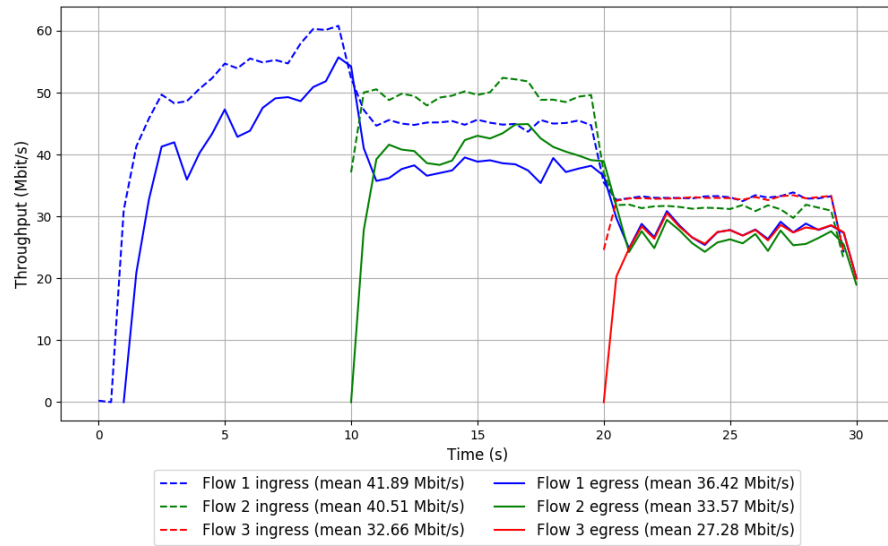


```
Run 1: Statistics of Indigo

Start at: 2018-05-25 12:15:06
End at: 2018-05-25 12:15:36
Local clock offset: -2.151 ms
Remote clock offset: 3.292 ms

# Below is generated by plot.py at 2018-05-25 15:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.78 Mbit/s
95th percentile per-packet one-way delay: 17.682 ms
Loss rate: 16.52%
-- Flow 1:
Average throughput: 36.42 Mbit/s
95th percentile per-packet one-way delay: 17.518 ms
Loss rate: 16.02%
-- Flow 2:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 18.253 ms
Loss rate: 17.24%
-- Flow 3:
Average throughput: 27.28 Mbit/s
95th percentile per-packet one-way delay: 18.271 ms
Loss rate: 16.69%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-25 12:37:27

End at: 2018-05-25 12:37:57

Local clock offset: 0.579 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2018-05-25 15:58:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 20.657 ms

Loss rate: 17.85%

-- Flow 1:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 17.356 ms

Loss rate: 17.62%

-- Flow 2:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 20.151 ms

Loss rate: 18.63%

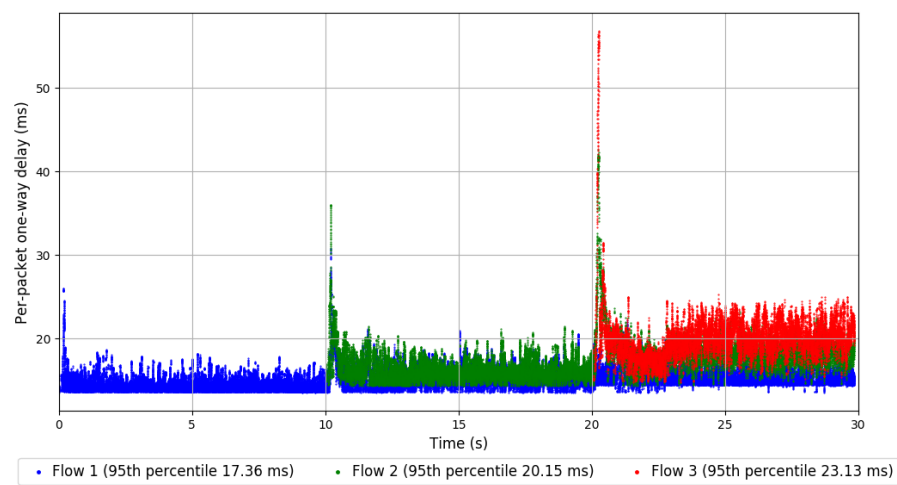
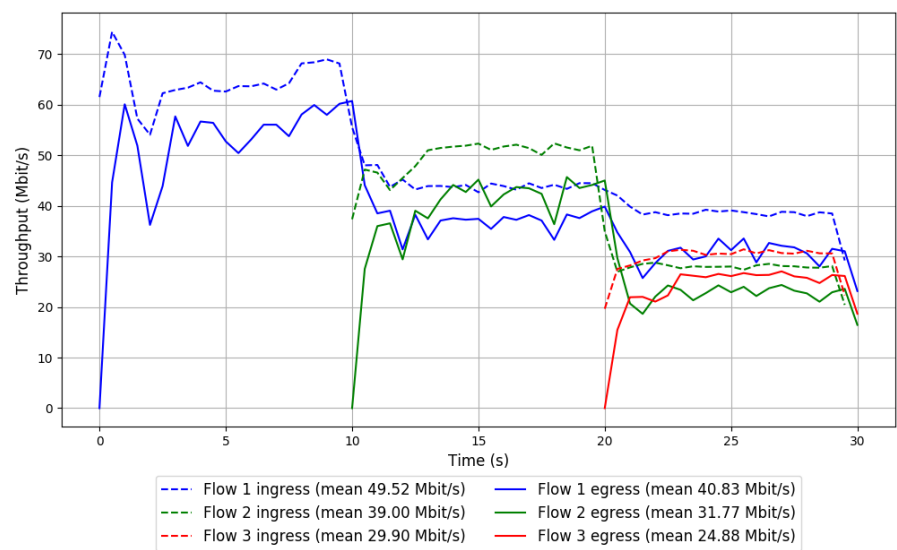
-- Flow 3:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 23.133 ms

Loss rate: 17.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-25 13:00:07

End at: 2018-05-25 13:00:37

Local clock offset: -2.287 ms

Remote clock offset: 3.504 ms

Below is generated by plot.py at 2018-05-25 15:58:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 14.183 ms

Loss rate: 15.76%

-- Flow 1:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 13.974 ms

Loss rate: 15.73%

-- Flow 2:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 10.505 ms

Loss rate: 16.20%

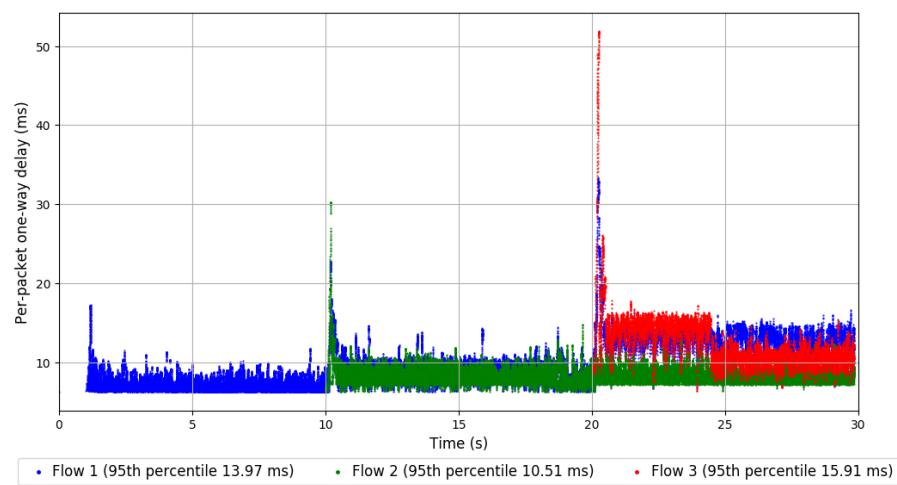
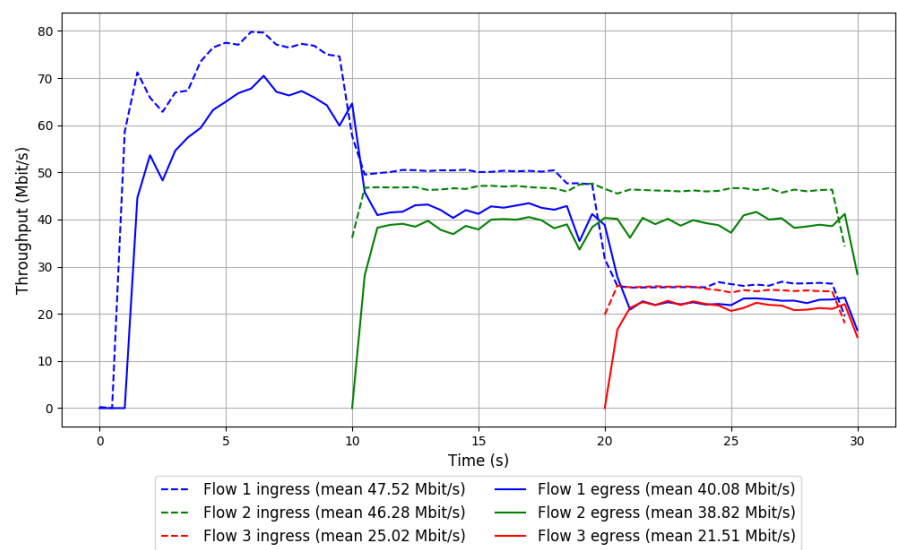
-- Flow 3:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 15.907 ms

Loss rate: 14.23%

Run 3: Report of Indigo — Data Link

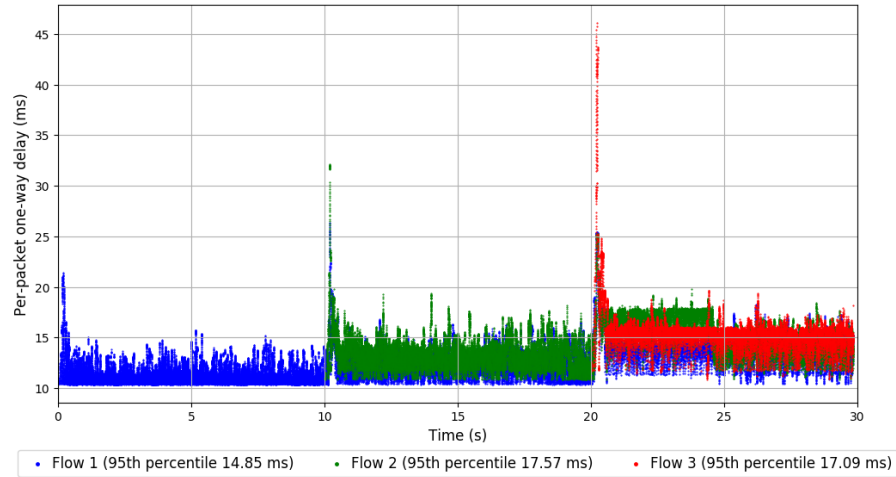
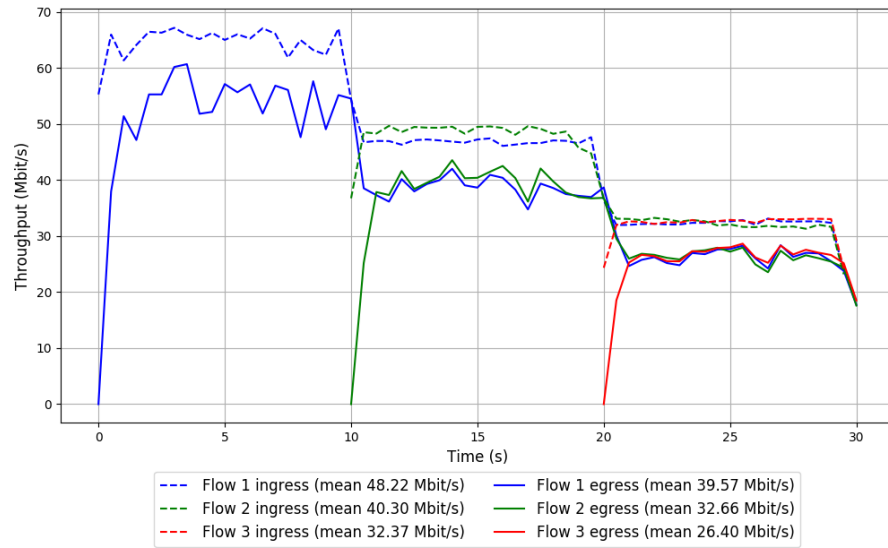


Run 4: Statistics of Indigo

Start at: 2018-05-25 13:22:29
End at: 2018-05-25 13:22:59
Local clock offset: -2.516 ms
Remote clock offset: -0.151 ms

```
# Below is generated by plot.py at 2018-05-25 15:58:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.95 Mbit/s
95th percentile per-packet one-way delay: 16.879 ms
Loss rate: 18.42%
-- Flow 1:
Average throughput: 39.57 Mbit/s
95th percentile per-packet one-way delay: 14.845 ms
Loss rate: 18.01%
-- Flow 2:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 17.569 ms
Loss rate: 19.07%
-- Flow 3:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 17.090 ms
Loss rate: 18.64%
```

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 13:44:56

End at: 2018-05-25 13:45:26

Local clock offset: -2.128 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-05-25 15:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 15.863 ms

Loss rate: 18.28%

-- Flow 1:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 14.939 ms

Loss rate: 18.21%

-- Flow 2:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 16.757 ms

Loss rate: 18.38%

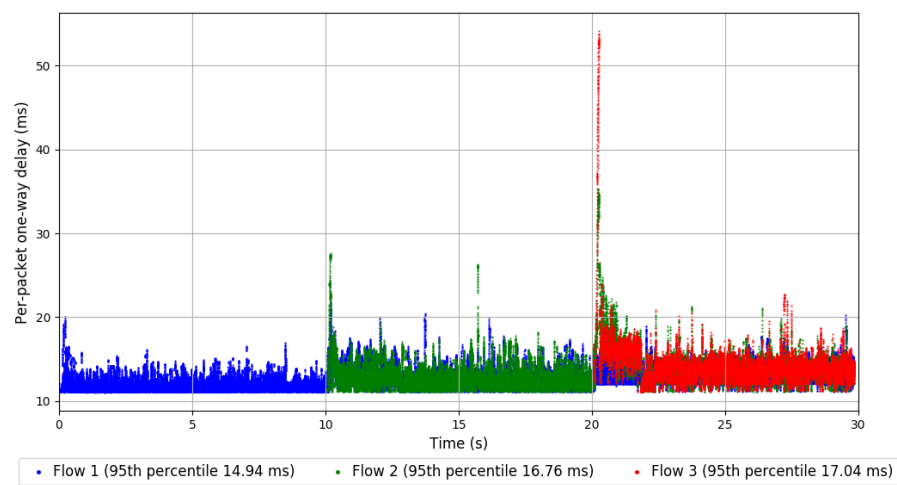
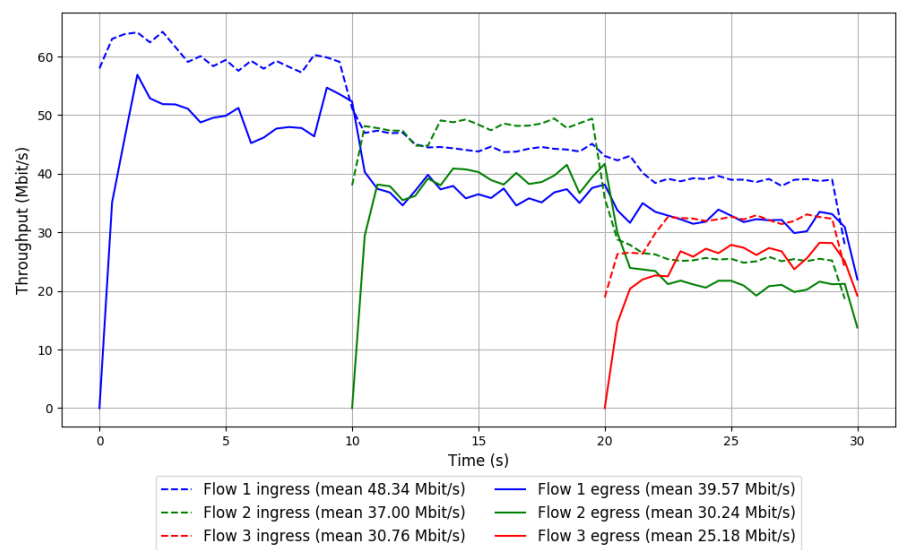
-- Flow 3:

Average throughput: 25.18 Mbit/s

95th percentile per-packet one-way delay: 17.044 ms

Loss rate: 18.35%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 14:08:06

End at: 2018-05-25 14:08:36

Local clock offset: -1.519 ms

Remote clock offset: 1.713 ms

Below is generated by plot.py at 2018-05-25 15:59:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 16.307 ms

Loss rate: 18.28%

-- Flow 1:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 16.044 ms

Loss rate: 17.96%

-- Flow 2:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 16.559 ms

Loss rate: 18.91%

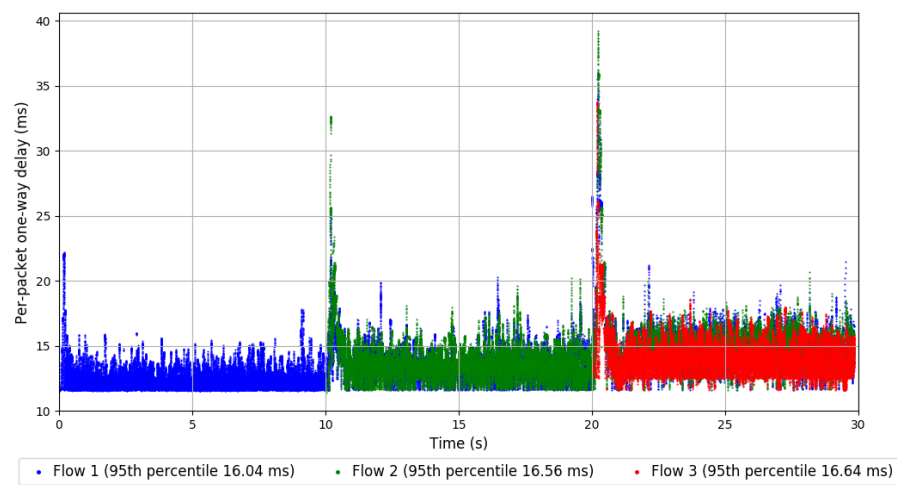
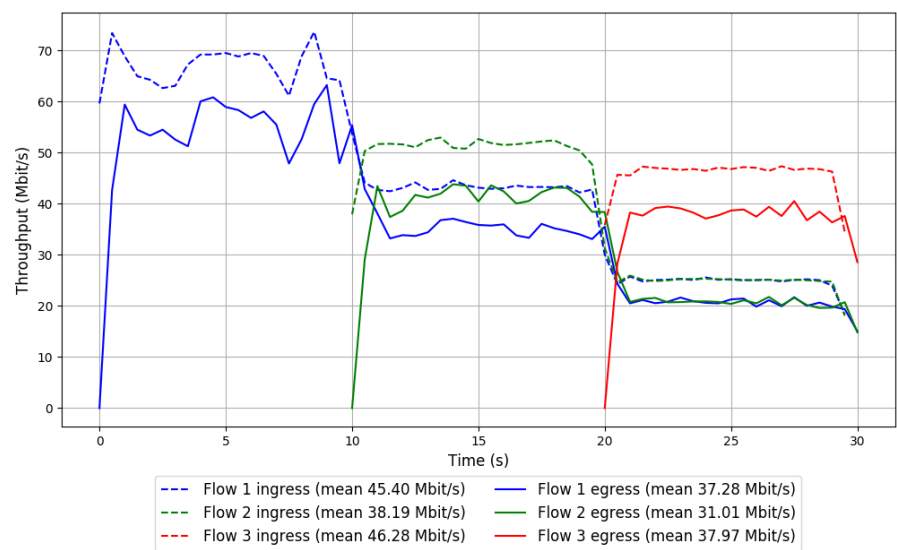
-- Flow 3:

Average throughput: 37.97 Mbit/s

95th percentile per-packet one-way delay: 16.645 ms

Loss rate: 18.18%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-25 14:31:49

End at: 2018-05-25 14:32:19

Local clock offset: -5.575 ms

Remote clock offset: 3.673 ms

Below is generated by plot.py at 2018-05-25 15:59:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 13.821 ms

Loss rate: 19.47%

-- Flow 1:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 11.741 ms

Loss rate: 19.78%

-- Flow 2:

Average throughput: 29.11 Mbit/s

95th percentile per-packet one-way delay: 14.616 ms

Loss rate: 19.67%

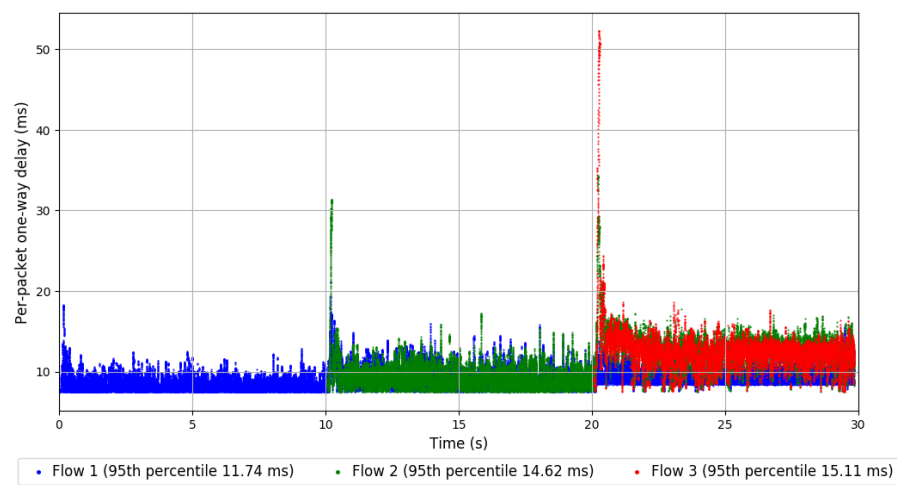
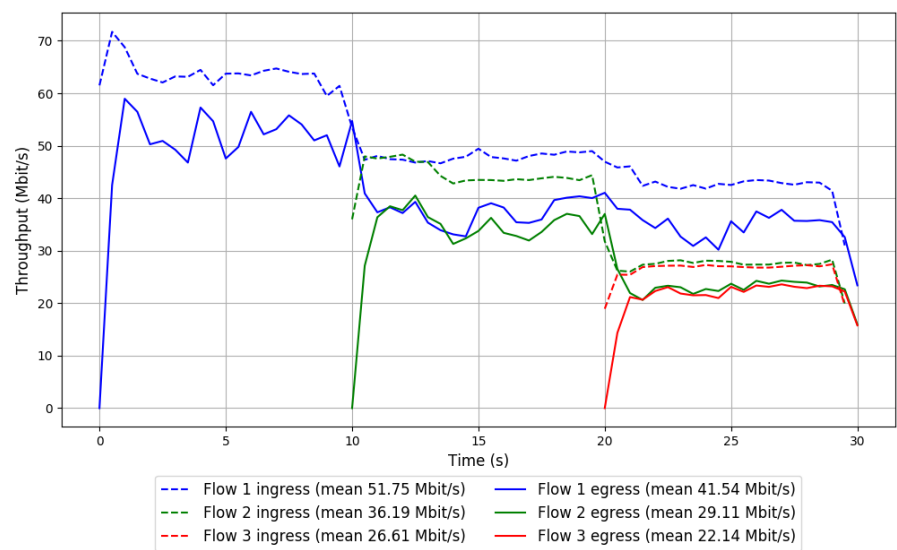
-- Flow 3:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 15.111 ms

Loss rate: 17.01%

Run 7: Report of Indigo — Data Link

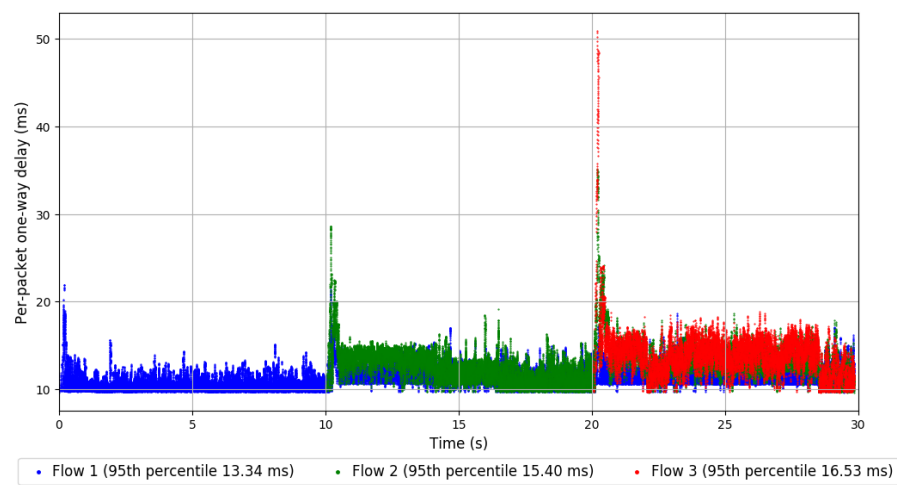
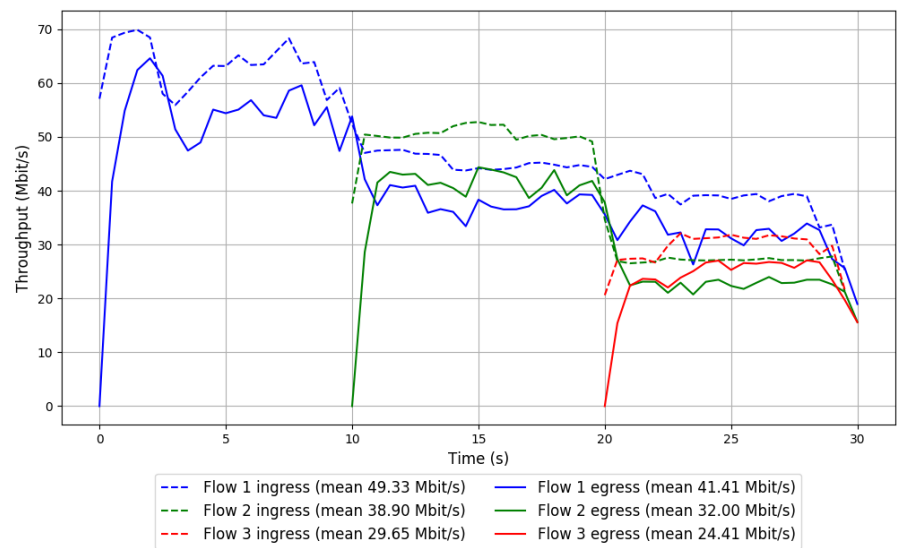


Run 8: Statistics of Indigo

Start at: 2018-05-25 14:54:10
End at: 2018-05-25 14:54:40
Local clock offset: -2.327 ms
Remote clock offset: 3.563 ms

Below is generated by plot.py at 2018-05-25 15:59:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.70 Mbit/s
95th percentile per-packet one-way delay: 15.156 ms
Loss rate: 16.86%
-- Flow 1:
Average throughput: 41.41 Mbit/s
95th percentile per-packet one-way delay: 13.343 ms
Loss rate: 16.13%
-- Flow 2:
Average throughput: 32.00 Mbit/s
95th percentile per-packet one-way delay: 15.405 ms
Loss rate: 17.86%
-- Flow 3:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 16.534 ms
Loss rate: 17.88%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-25 15:16:55

End at: 2018-05-25 15:17:25

Local clock offset: -0.353 ms

Remote clock offset: 2.942 ms

Below is generated by plot.py at 2018-05-25 15:59:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.79 Mbit/s

95th percentile per-packet one-way delay: 16.970 ms

Loss rate: 15.27%

-- Flow 1:

Average throughput: 42.92 Mbit/s

95th percentile per-packet one-way delay: 14.994 ms

Loss rate: 14.84%

-- Flow 2:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 17.125 ms

Loss rate: 16.57%

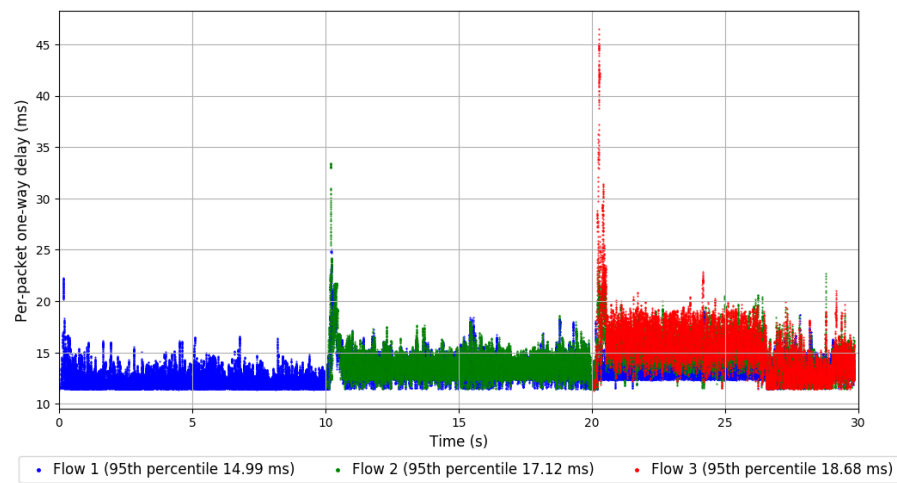
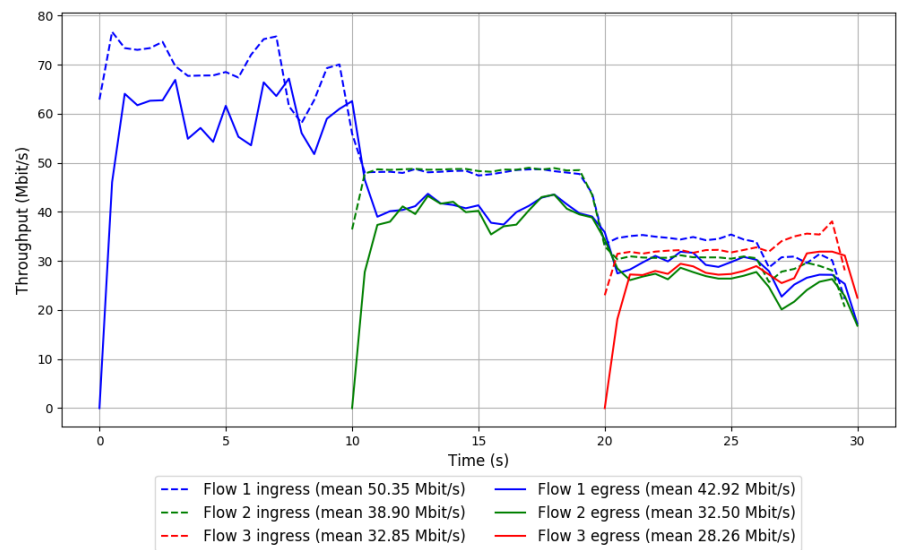
-- Flow 3:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 18.680 ms

Loss rate: 14.20%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-25 15:38:55

End at: 2018-05-25 15:39:25

Local clock offset: 2.128 ms

Remote clock offset: 0.783 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 19.113 ms

Loss rate: 15.88%

-- Flow 1:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 18.585 ms

Loss rate: 17.14%

-- Flow 2:

Average throughput: 34.00 Mbit/s

95th percentile per-packet one-way delay: 19.135 ms

Loss rate: 13.91%

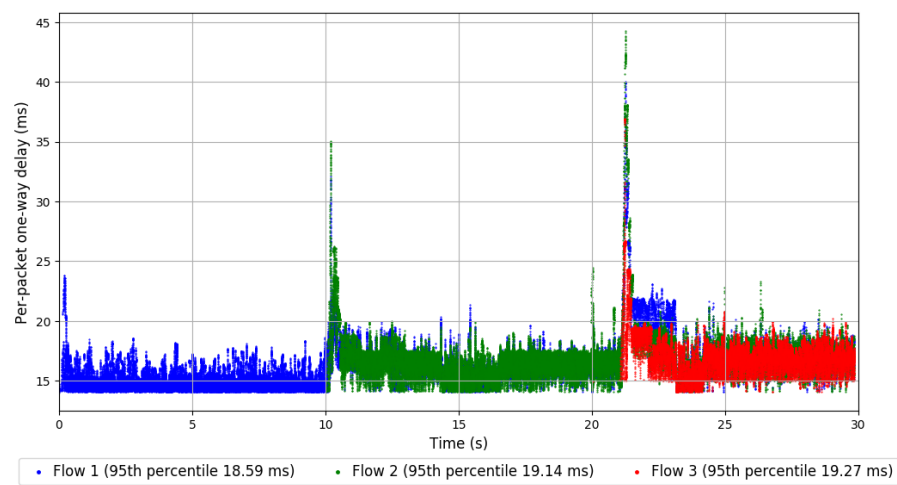
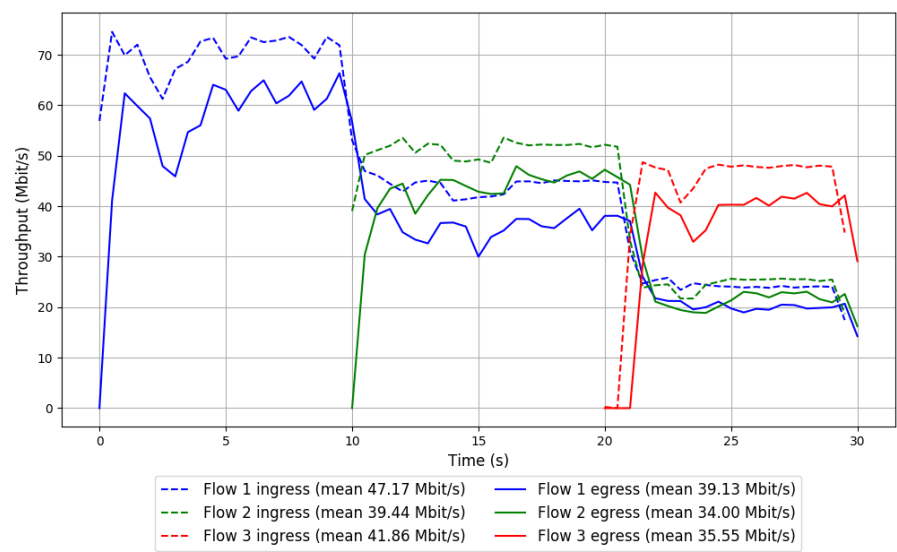
-- Flow 3:

Average throughput: 35.55 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 15.31%

Run 10: Report of Indigo — Data Link

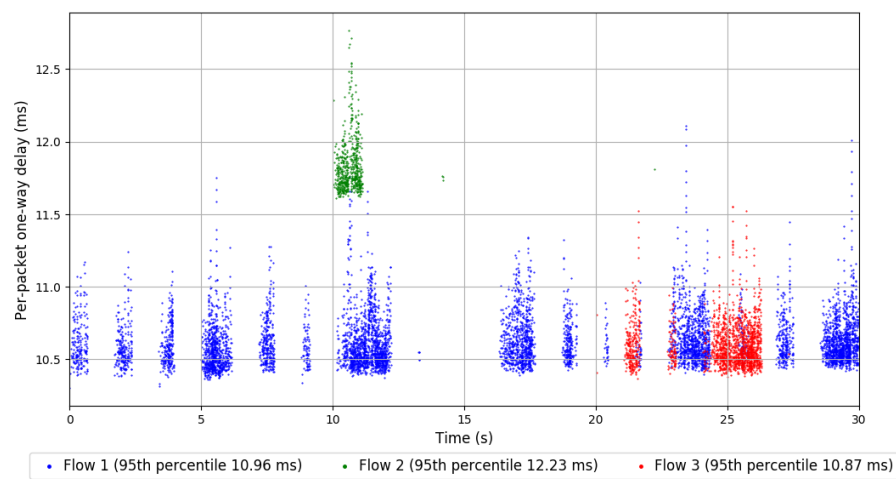
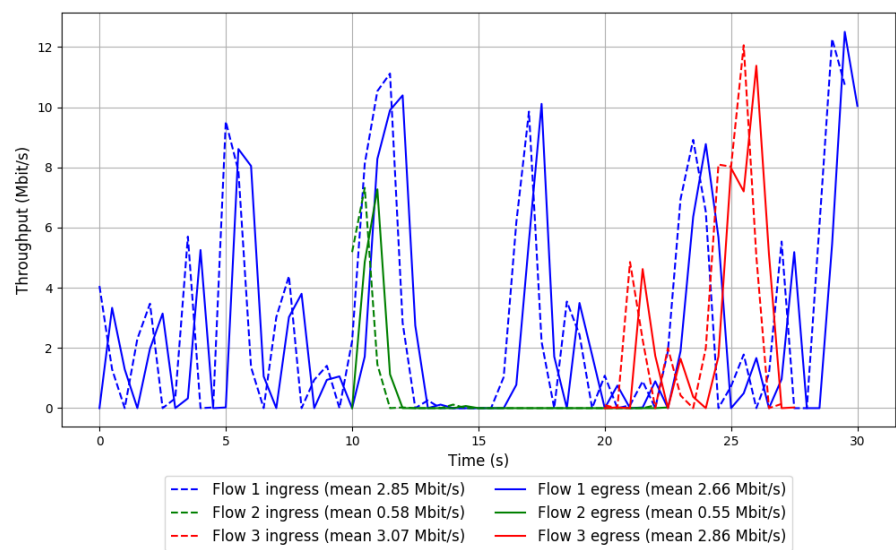


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 12:19:09
End at: 2018-05-25 12:19:39
Local clock offset: -1.542 ms
Remote clock offset: 5.383 ms

# Below is generated by plot.py at 2018-05-25 15:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 11.702 ms
Loss rate: 6.79%
-- Flow 1:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 10.956 ms
Loss rate: 6.78%
-- Flow 2:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 12.233 ms
Loss rate: 5.95%
-- Flow 3:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 10.871 ms
Loss rate: 7.09%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 12:41:33

End at: 2018-05-25 12:42:03

Local clock offset: -1.759 ms

Remote clock offset: 5.464 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 8.591 ms

Loss rate: 9.45%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 8.619 ms

Loss rate: 8.14%

-- Flow 2:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 7.927 ms

Loss rate: 8.72%

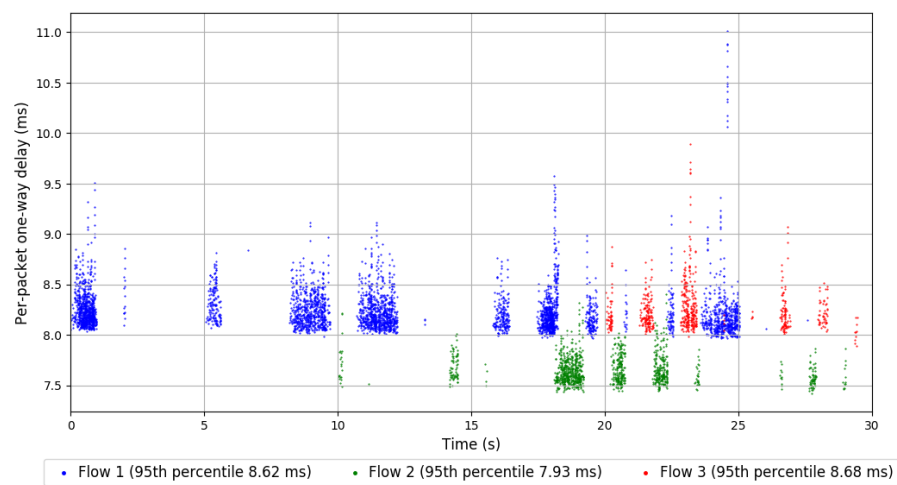
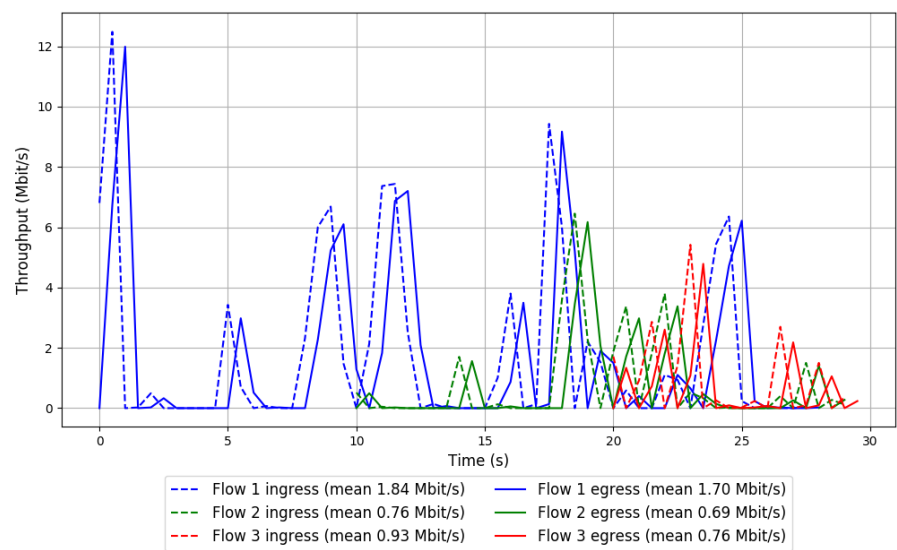
-- Flow 3:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 8.682 ms

Loss rate: 18.25%

Run 2: Report of LEDBAT — Data Link

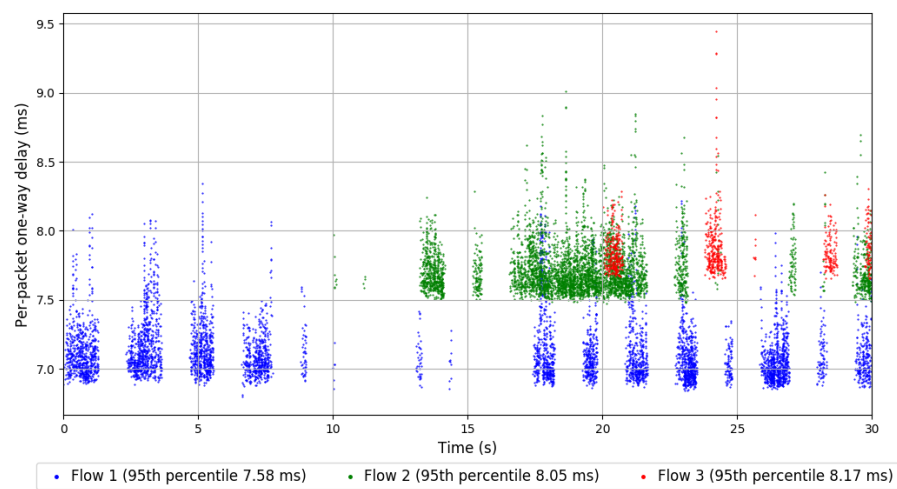
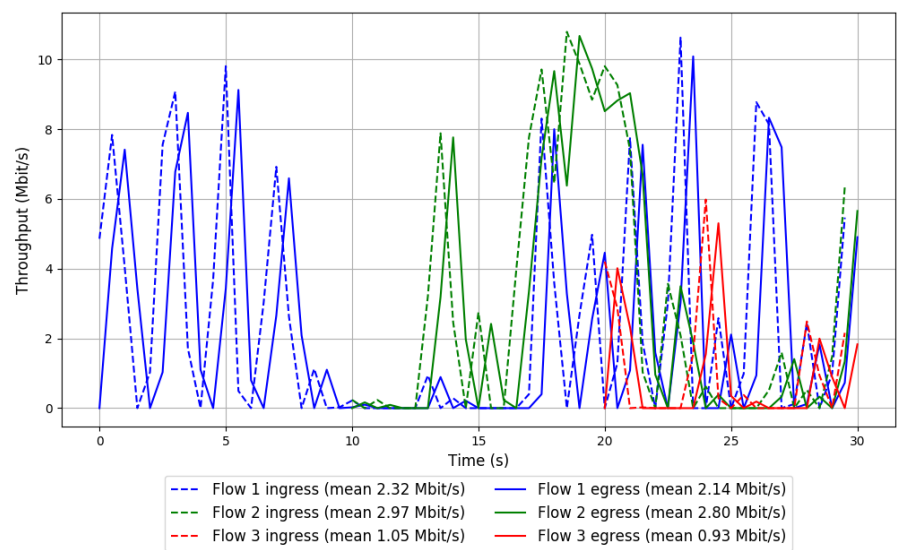


Run 3: Statistics of LEDBAT

Start at: 2018-05-25 13:04:01
End at: 2018-05-25 13:04:31
Local clock offset: -0.854 ms
Remote clock offset: 3.207 ms

Below is generated by plot.py at 2018-05-25 15:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 7.987 ms
Loss rate: 7.24%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 7.585 ms
Loss rate: 7.87%
-- Flow 2:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 8.053 ms
Loss rate: 5.73%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 8.170 ms
Loss rate: 11.59%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 13:26:42

End at: 2018-05-25 13:27:12

Local clock offset: 0.412 ms

Remote clock offset: -0.46 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.20 Mbit/s

95th percentile per-packet one-way delay: 14.085 ms

Loss rate: 7.96%

-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 13.567 ms

Loss rate: 8.73%

-- Flow 2:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 13.614 ms

Loss rate: 7.74%

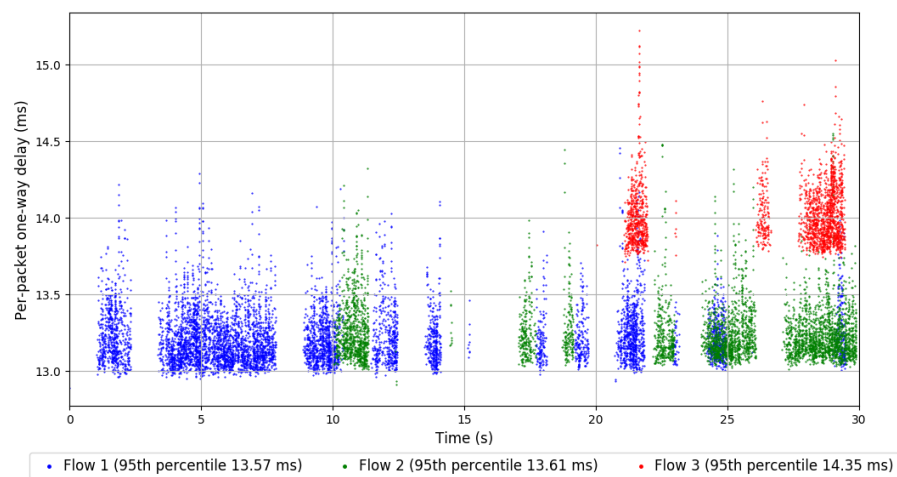
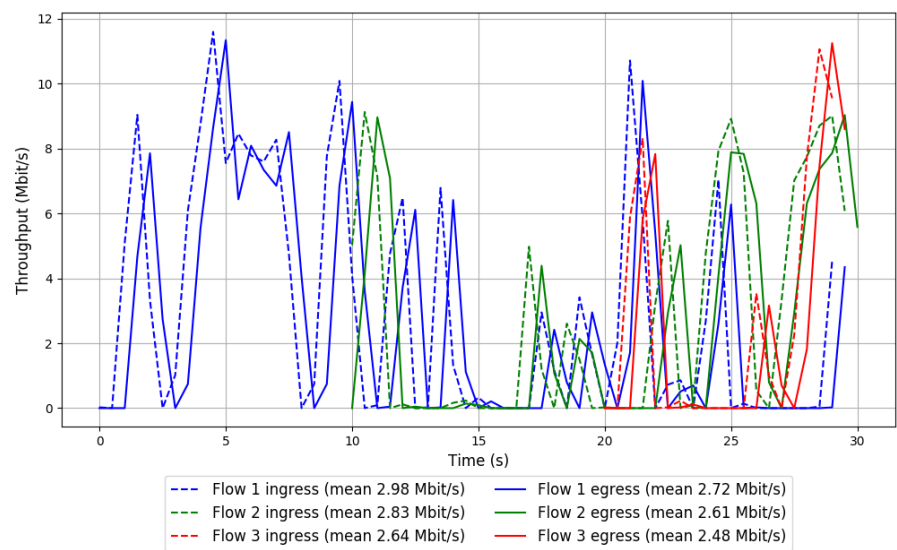
-- Flow 3:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 14.350 ms

Loss rate: 5.75%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-25 13:49:06

End at: 2018-05-25 13:49:36

Local clock offset: -3.054 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 11.756 ms

Loss rate: 11.64%

-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 11.732 ms

Loss rate: 12.45%

-- Flow 2:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 11.793 ms

Loss rate: 10.64%

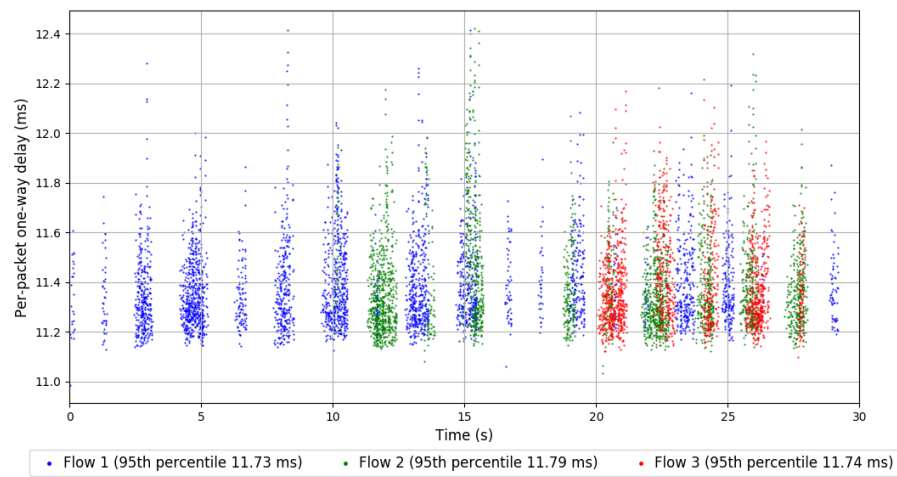
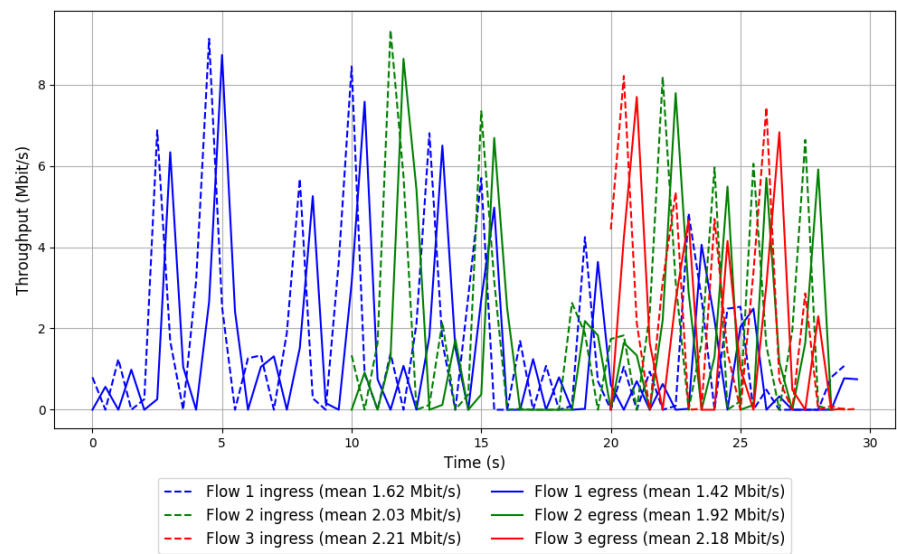
-- Flow 3:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 11.742 ms

Loss rate: 11.64%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 14:12:16

End at: 2018-05-25 14:12:46

Local clock offset: -2.373 ms

Remote clock offset: 1.862 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 11.256 ms

Loss rate: 12.32%

-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 11.225 ms

Loss rate: 15.20%

-- Flow 2:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 11.276 ms

Loss rate: 9.51%

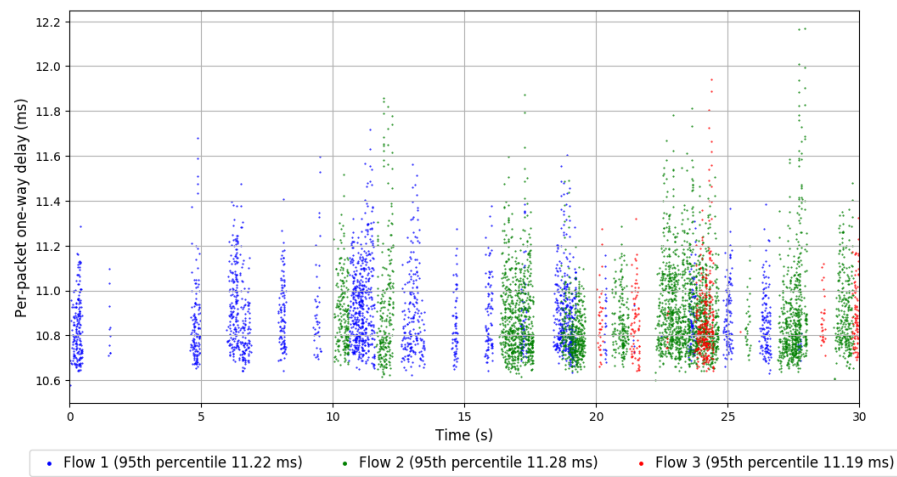
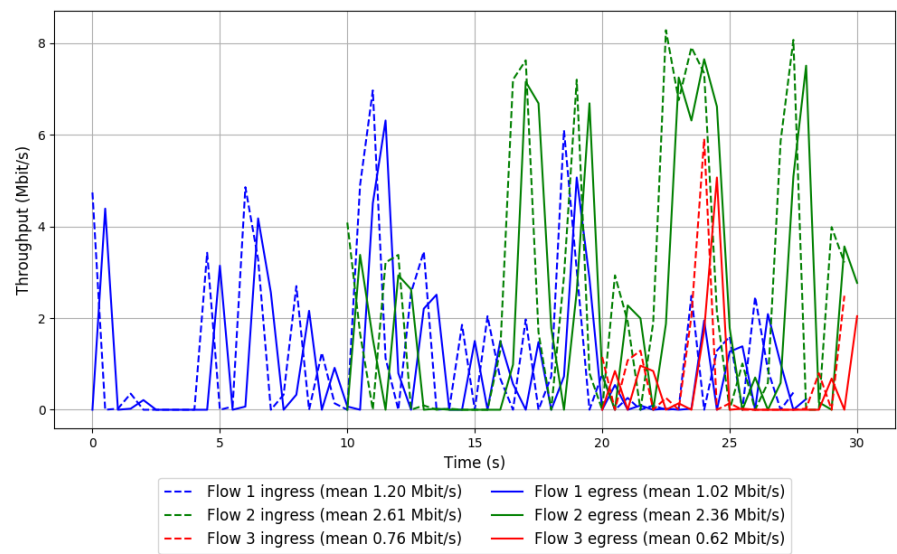
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 11.186 ms

Loss rate: 18.70%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 14:36:08

End at: 2018-05-25 14:36:38

Local clock offset: -3.4 ms

Remote clock offset: 4.684 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 11.579 ms

Loss rate: 8.54%

-- Flow 1:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 11.225 ms

Loss rate: 10.71%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 11.376 ms

Loss rate: 7.16%

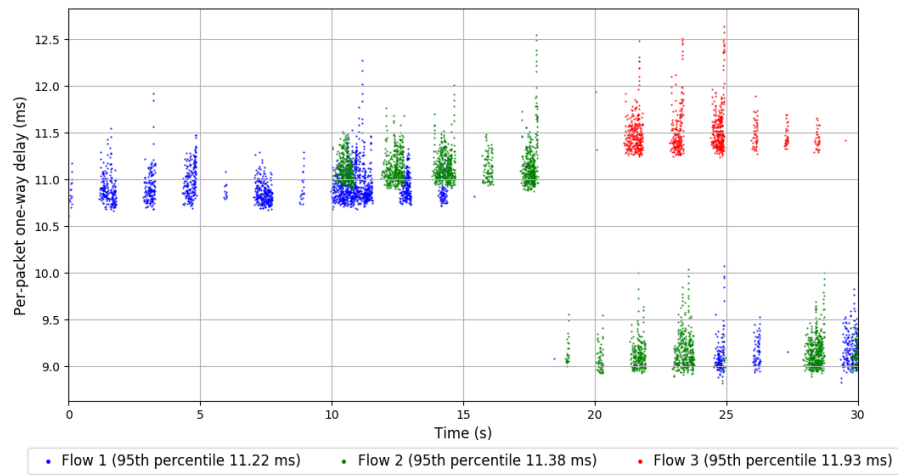
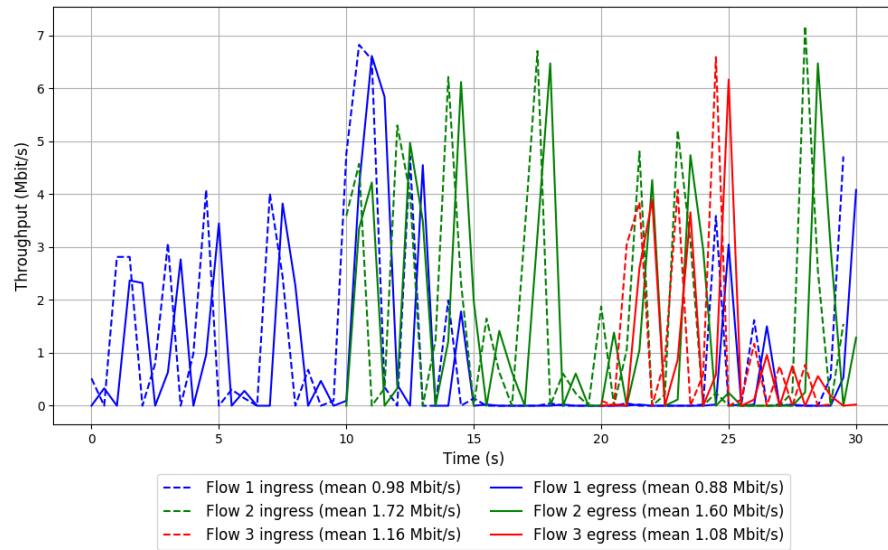
-- Flow 3:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 7.05%

Run 7: Report of LEDBAT — Data Link

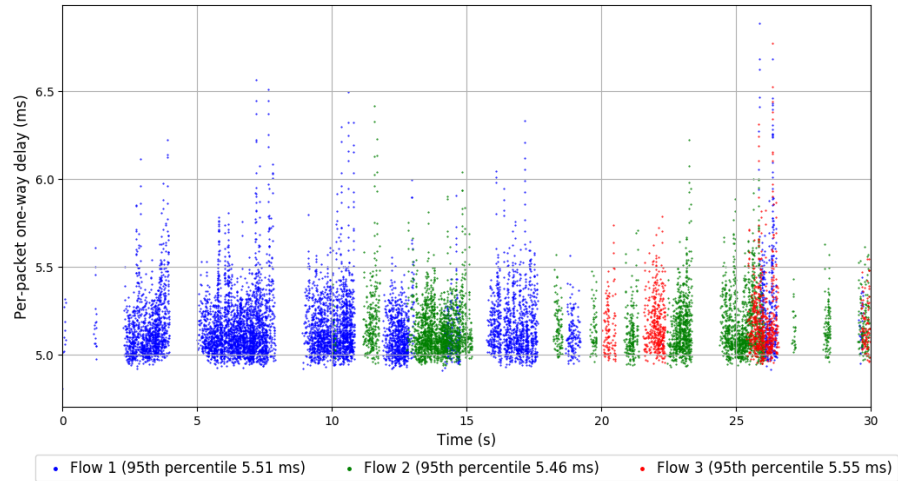
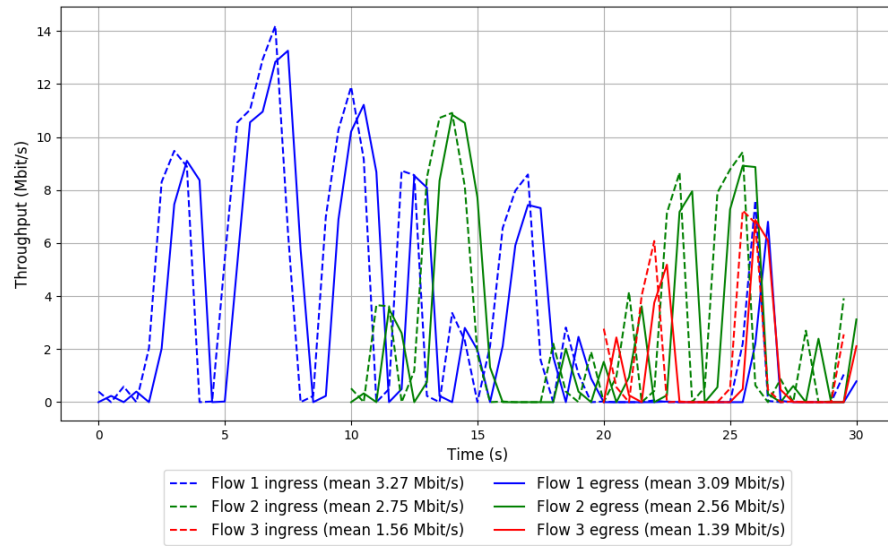


Run 8: Statistics of LEDBAT

Start at: 2018-05-25 14:58:03
End at: 2018-05-25 14:58:33
Local clock offset: -4.185 ms
Remote clock offset: 6.133 ms

```
# Below is generated by plot.py at 2018-05-25 15:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 5.499 ms
Loss rate: 6.57%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 5.509 ms
Loss rate: 5.62%
-- Flow 2:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 5.461 ms
Loss rate: 7.10%
-- Flow 3:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 5.548 ms
Loss rate: 10.67%
```

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-25 15:21:06

End at: 2018-05-25 15:21:36

Local clock offset: -1.172 ms

Remote clock offset: 2.702 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 11.437 ms

Loss rate: 8.67%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 11.488 ms

Loss rate: 8.05%

-- Flow 2:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 11.391 ms

Loss rate: 9.35%

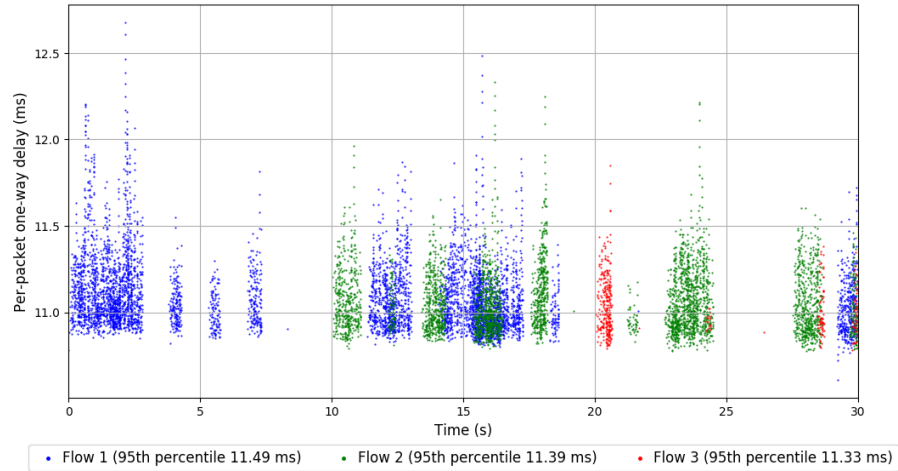
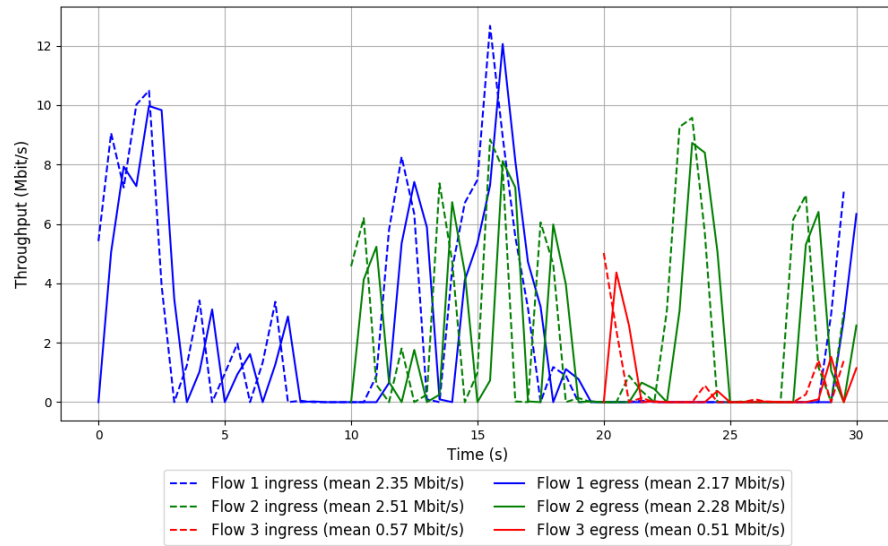
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 11.326 ms

Loss rate: 10.38%

Run 9: Report of LEDBAT — Data Link

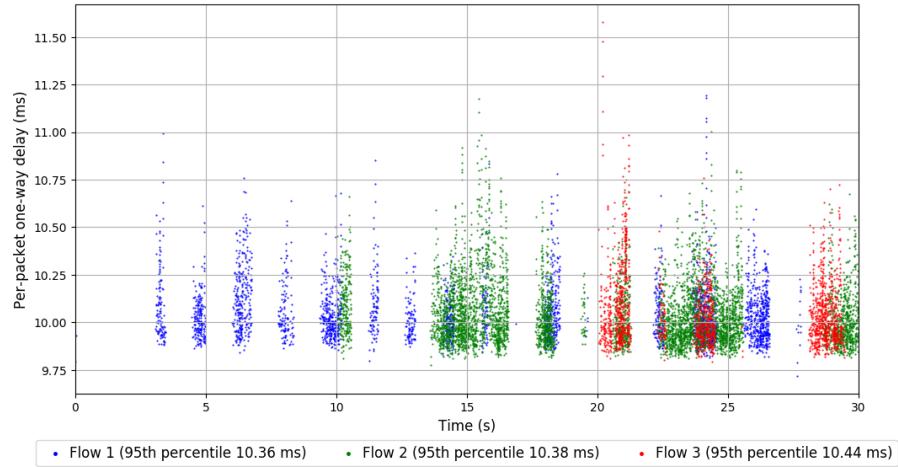
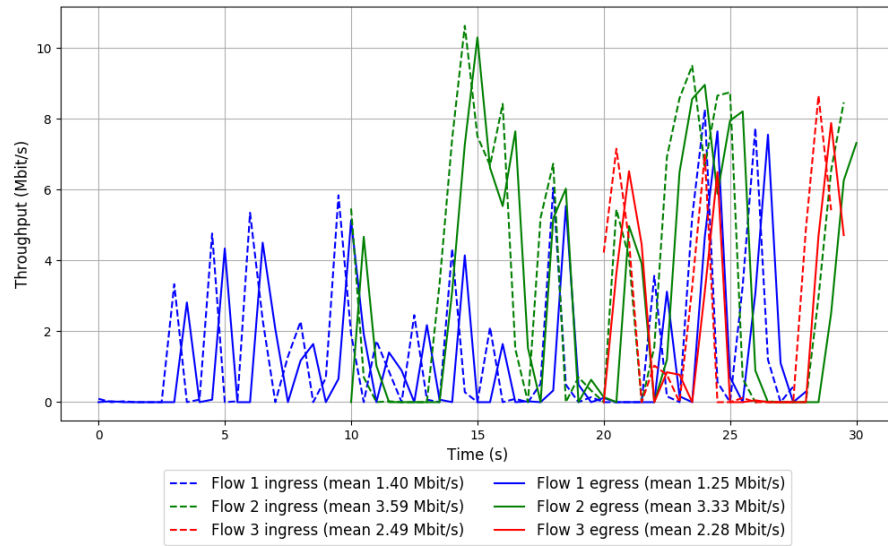


Run 10: Statistics of LEDBAT

Start at: 2018-05-25 15:42:47
End at: 2018-05-25 15:43:17
Local clock offset: -2.92 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-05-25 15:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 10.387 ms
Loss rate: 8.42%
-- Flow 1:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 10.360 ms
Loss rate: 10.40%
-- Flow 2:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 10.383 ms
Loss rate: 7.41%
-- Flow 3:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 10.443 ms
Loss rate: 8.22%

Run 10: Report of LEDBAT — Data Link

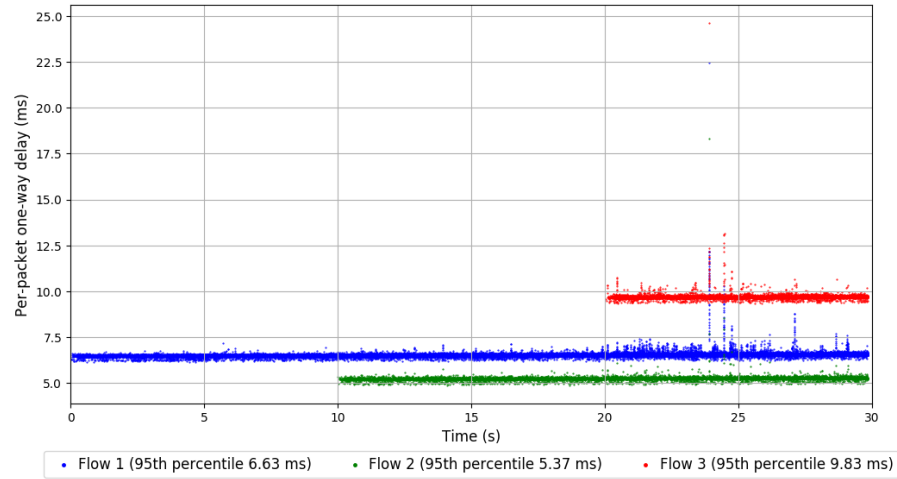
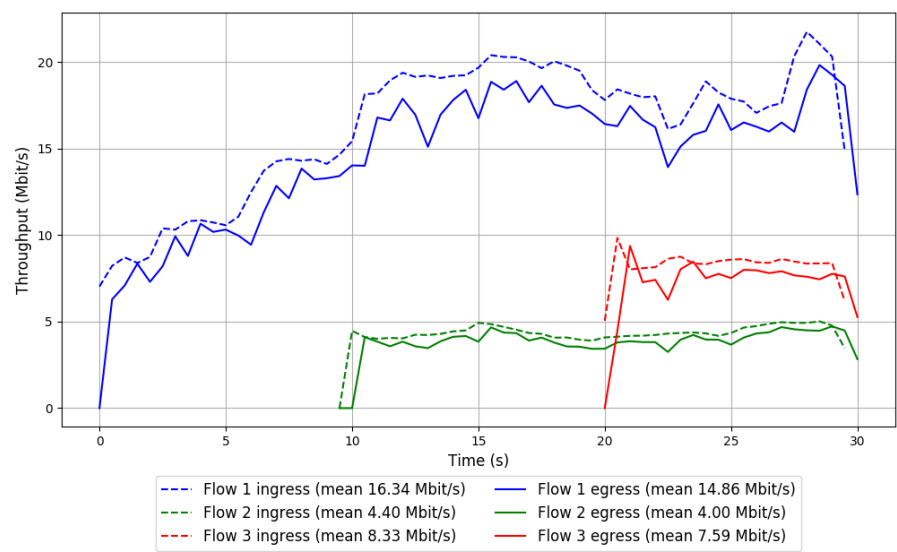


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 12:13:42
End at: 2018-05-25 12:14:12
Local clock offset: -1.407 ms
Remote clock offset: 9.821 ms

# Below is generated by plot.py at 2018-05-25 15:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.02 Mbit/s
95th percentile per-packet one-way delay: 9.699 ms
Loss rate: 9.12%
-- Flow 1:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 6.629 ms
Loss rate: 9.10%
-- Flow 2:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 5.365 ms
Loss rate: 9.25%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 9.829 ms
Loss rate: 9.15%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 12:36:19

End at: 2018-05-25 12:36:49

Local clock offset: -1.871 ms

Remote clock offset: 2.712 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 12.249 ms

Loss rate: 8.93%

-- Flow 1:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 12.262 ms

Loss rate: 8.90%

-- Flow 2:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 10.925 ms

Loss rate: 9.09%

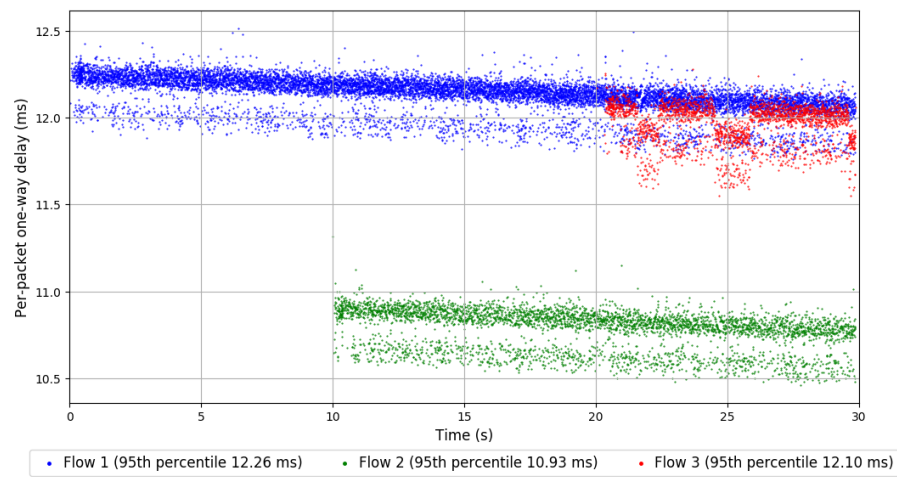
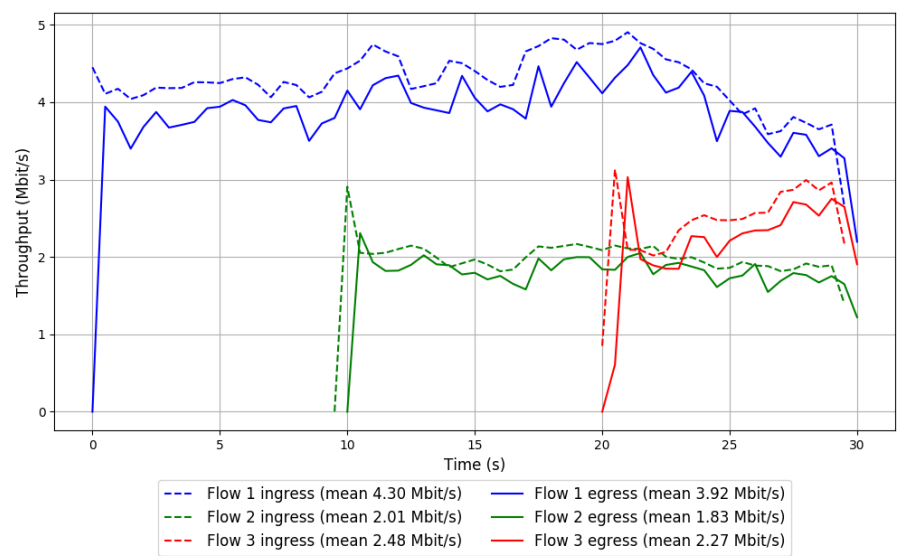
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 12.099 ms

Loss rate: 8.84%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 12:59:00

End at: 2018-05-25 12:59:30

Local clock offset: -0.166 ms

Remote clock offset: 3.211 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 9.604 ms

Loss rate: 7.30%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 9.045 ms

Loss rate: 7.43%

-- Flow 2:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 9.627 ms

Loss rate: 7.22%

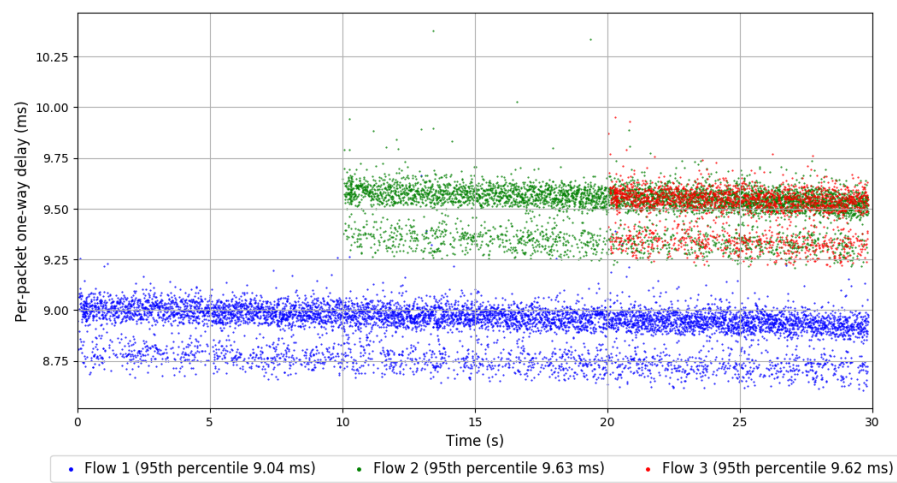
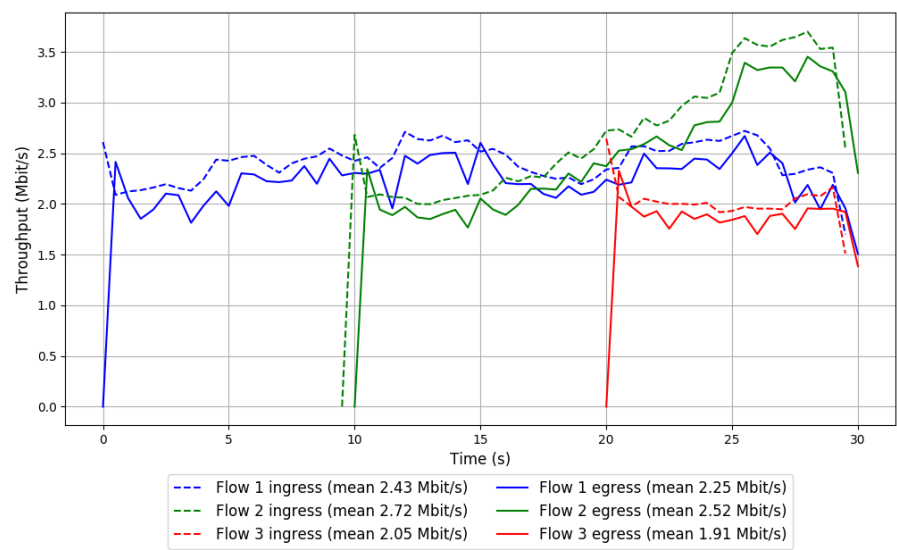
-- Flow 3:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 9.615 ms

Loss rate: 7.08%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 13:21:23

End at: 2018-05-25 13:21:53

Local clock offset: -0.988 ms

Remote clock offset: 4.803 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 7.446 ms

Loss rate: 7.82%

-- Flow 1:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 6.859 ms

Loss rate: 7.63%

-- Flow 2:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 7.477 ms

Loss rate: 7.98%

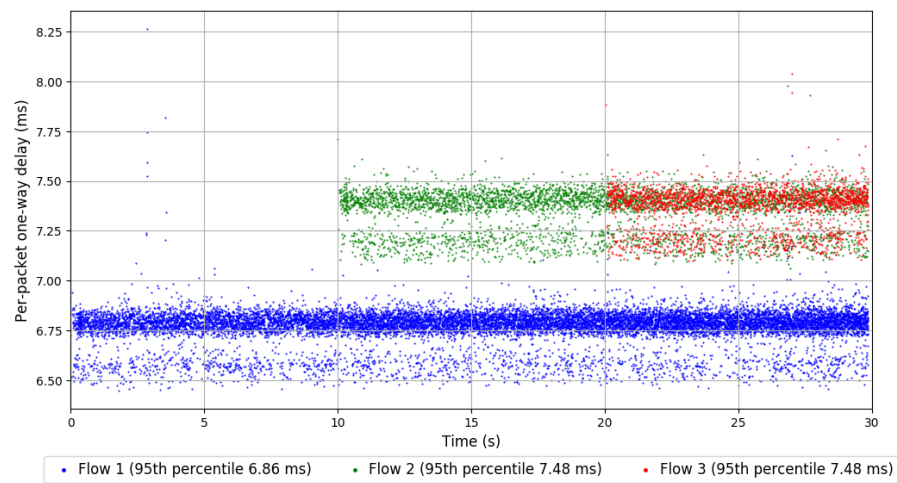
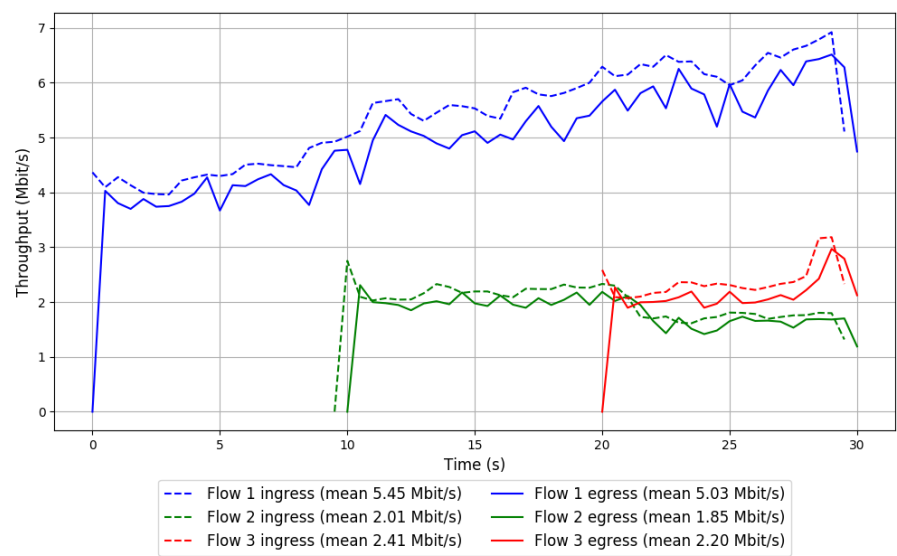
-- Flow 3:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 7.484 ms

Loss rate: 8.89%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 13:43:47

End at: 2018-05-25 13:44:17

Local clock offset: 0.068 ms

Remote clock offset: 0.696 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 14.374 ms

Loss rate: 10.07%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 13.732 ms

Loss rate: 9.52%

-- Flow 2:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 14.365 ms

Loss rate: 10.85%

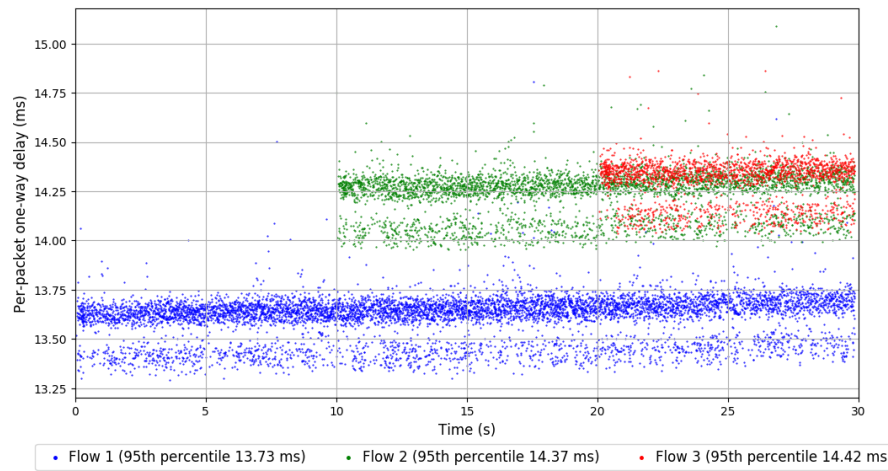
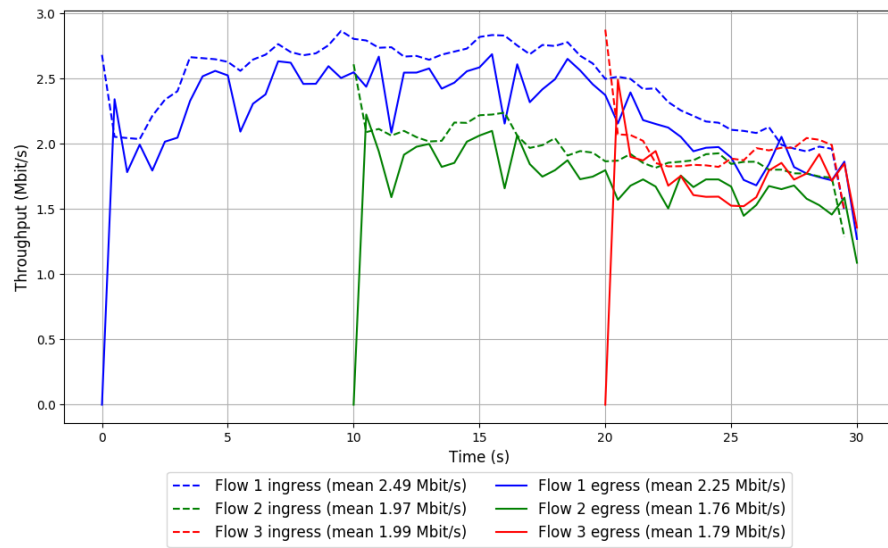
-- Flow 3:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 14.420 ms

Loss rate: 10.57%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 14:06:59

End at: 2018-05-25 14:07:29

Local clock offset: -0.749 ms

Remote clock offset: 7.396 ms

Below is generated by plot.py at 2018-05-25 15:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 6.755 ms

Loss rate: 11.25%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 6.754 ms

Loss rate: 10.99%

-- Flow 2:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 6.756 ms

Loss rate: 11.35%

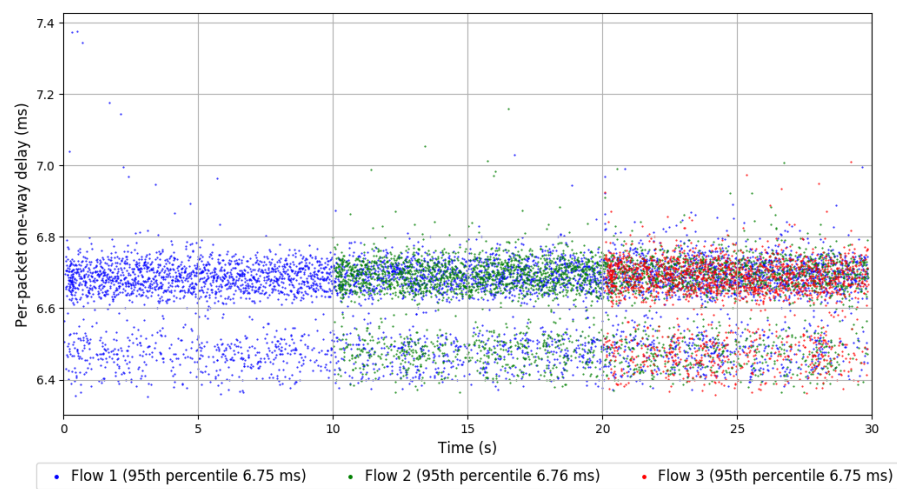
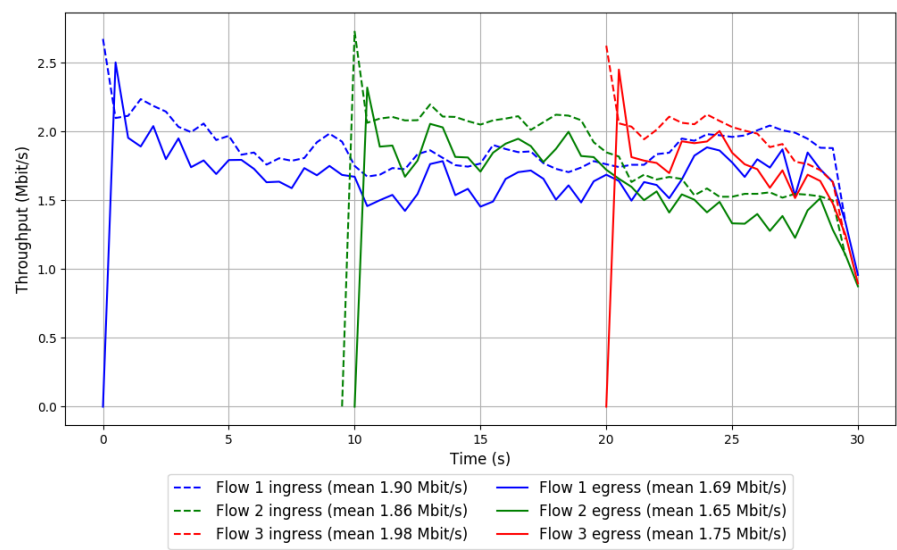
-- Flow 3:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 6.754 ms

Loss rate: 11.84%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 14:30:36

End at: 2018-05-25 14:31:06

Local clock offset: -3.169 ms

Remote clock offset: 3.571 ms

Below is generated by plot.py at 2018-05-25 15:59:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 10.052 ms

Loss rate: 11.85%

-- Flow 1:

Average throughput: 13.70 Mbit/s

95th percentile per-packet one-way delay: 10.059 ms

Loss rate: 11.64%

-- Flow 2:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 10.041 ms

Loss rate: 12.15%

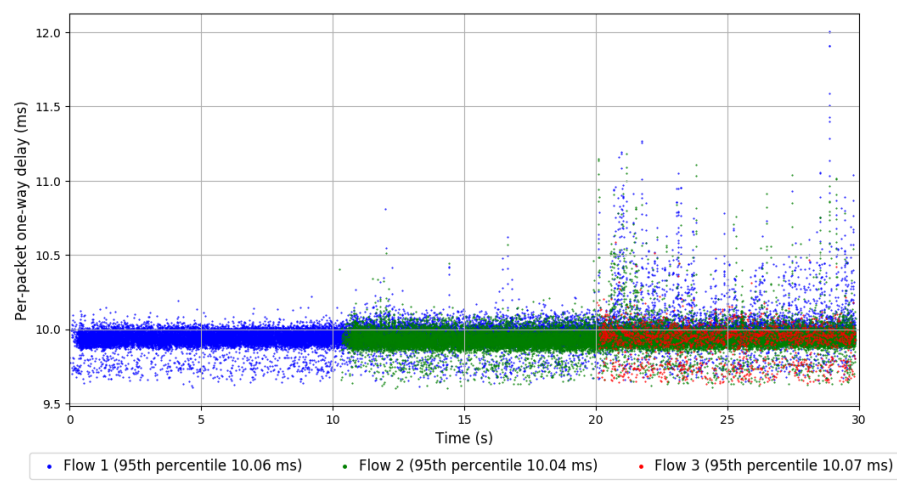
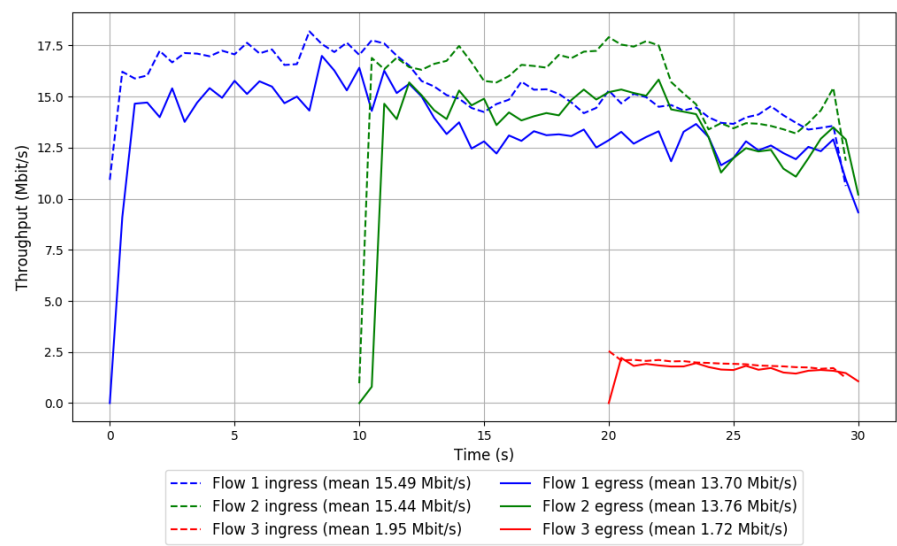
-- Flow 3:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 10.075 ms

Loss rate: 11.80%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 14:52:56

End at: 2018-05-25 14:53:26

Local clock offset: -2.376 ms

Remote clock offset: 3.376 ms

Below is generated by plot.py at 2018-05-25 15:59:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 10.174 ms

Loss rate: 8.89%

-- Flow 1:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 10.177 ms

Loss rate: 8.81%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 10.160 ms

Loss rate: 9.03%

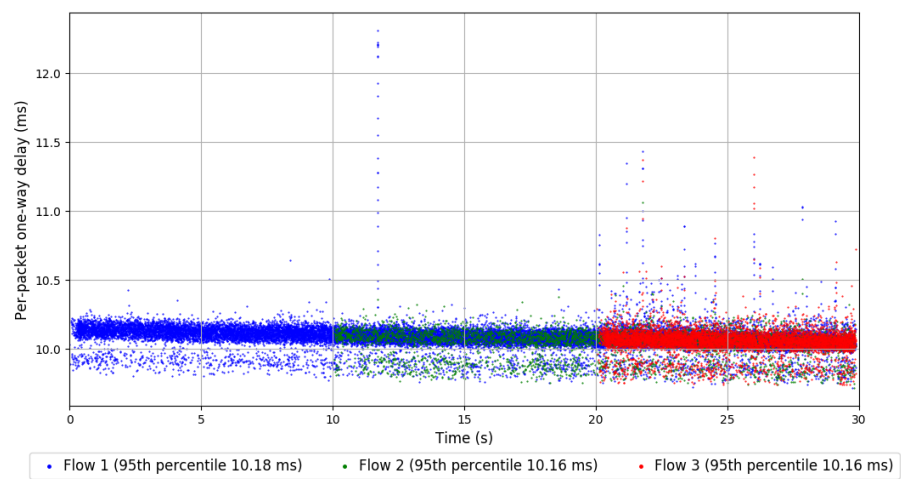
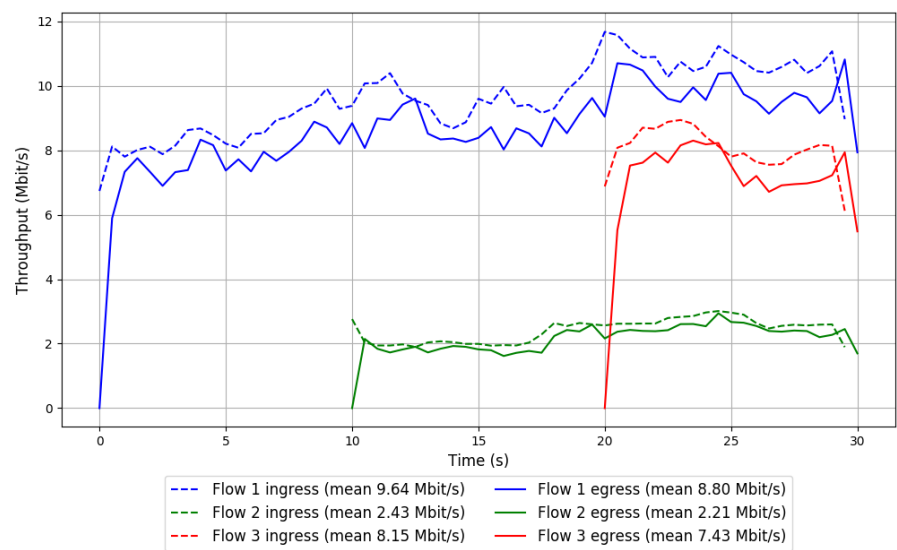
-- Flow 3:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 10.163 ms

Loss rate: 9.09%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 15:15:36

End at: 2018-05-25 15:16:06

Local clock offset: -5.919 ms

Remote clock offset: 2.684 ms

Below is generated by plot.py at 2018-05-25 15:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 6.271 ms

Loss rate: 9.21%

-- Flow 1:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 6.268 ms

Loss rate: 9.06%

-- Flow 2:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 6.293 ms

Loss rate: 9.76%

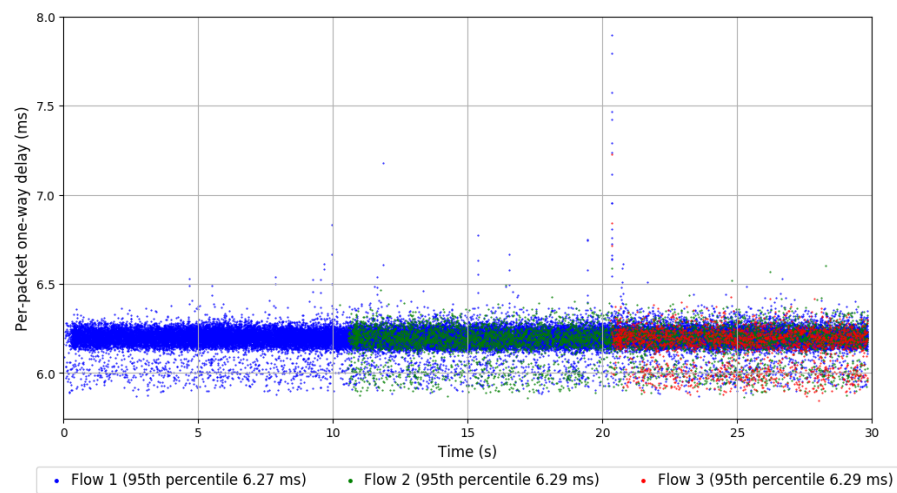
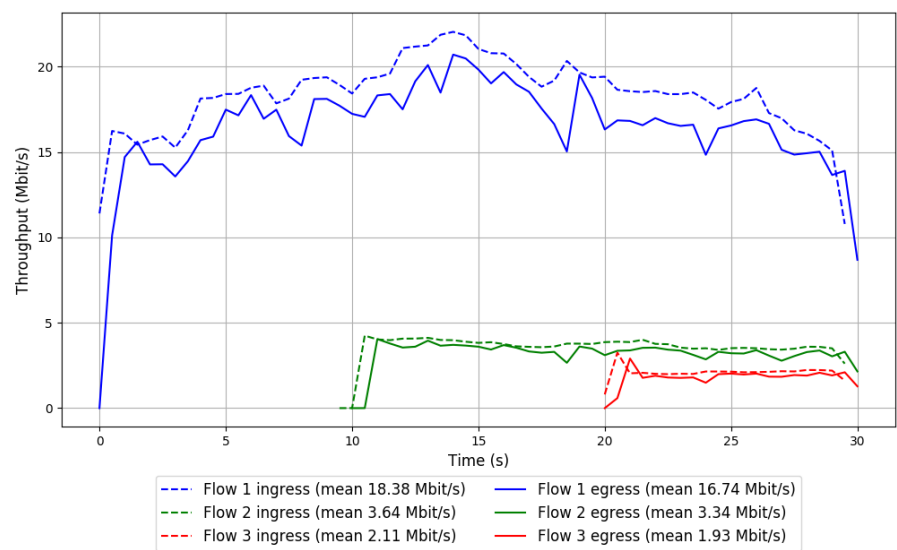
-- Flow 3:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 6.287 ms

Loss rate: 11.13%

Run 9: Report of PCC-Allegro — Data Link

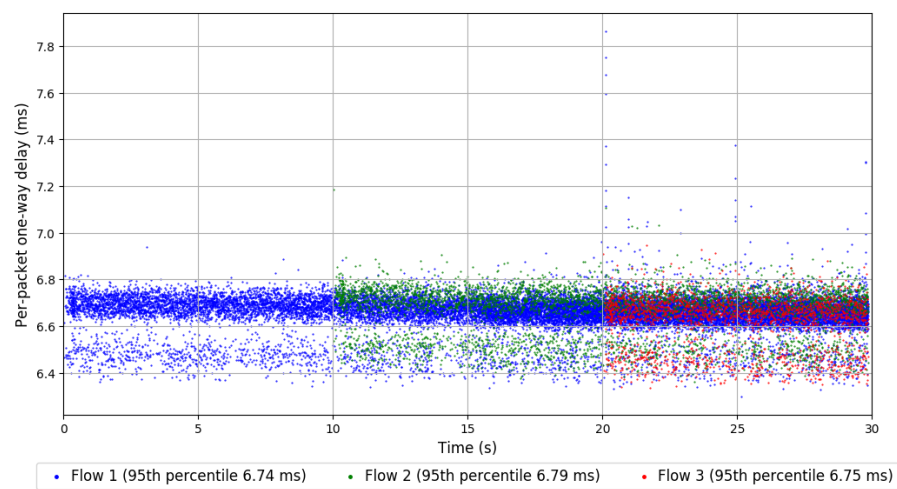
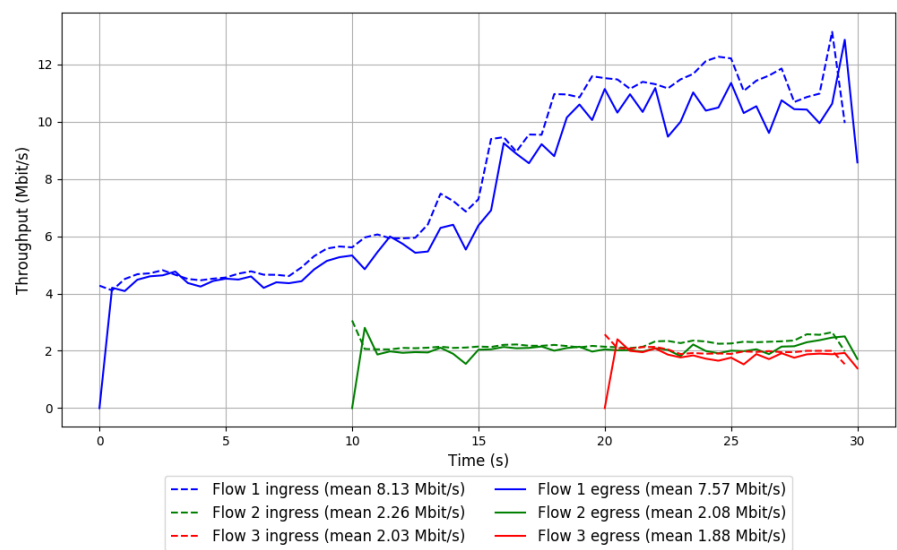


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 15:37:44
End at: 2018-05-25 15:38:14
Local clock offset: -1.744 ms
Remote clock offset: 4.442 ms

Below is generated by plot.py at 2018-05-25 15:59:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 6.756 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 6.742 ms
Loss rate: 6.97%
-- Flow 2:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 6.789 ms
Loss rate: 7.94%
-- Flow 3:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 6.752 ms
Loss rate: 7.78%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 12:16:50

End at: 2018-05-25 12:17:20

Local clock offset: 1.878 ms

Remote clock offset: 5.366 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 12:39:21

End at: 2018-05-25 12:39:51

Local clock offset: -2.436 ms

Remote clock offset: 5.586 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 13:01:45

End at: 2018-05-25 13:02:15

Local clock offset: -0.321 ms

Remote clock offset: -2.137 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 13:24:30

End at: 2018-05-25 13:25:00

Local clock offset: 1.012 ms

Remote clock offset: -1.591 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 13:46:52

End at: 2018-05-25 13:47:22

Local clock offset: -2.017 ms

Remote clock offset: 0.62 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 14:10:02

End at: 2018-05-25 14:10:32

Local clock offset: -2.209 ms

Remote clock offset: 7.338 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 14:33:54

End at: 2018-05-25 14:34:24

Local clock offset: -8.729 ms

Remote clock offset: -1.527 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 14:55:45

End at: 2018-05-25 14:56:15

Local clock offset: -2.723 ms

Remote clock offset: 7.609 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 15:18:52

End at: 2018-05-25 15:19:22

Local clock offset: -2.99 ms

Remote clock offset: 6.485 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 15:40:33

End at: 2018-05-25 15:41:03

Local clock offset: -2.12 ms

Remote clock offset: 0.761 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 12:06:32

End at: 2018-05-25 12:07:02

Local clock offset: 0.414 ms

Remote clock offset: 2.793 ms

Below is generated by plot.py at 2018-05-25 15:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 17.026 ms

Loss rate: 6.52%

-- Flow 1:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 17.038 ms

Loss rate: 6.04%

-- Flow 2:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 17.028 ms

Loss rate: 6.60%

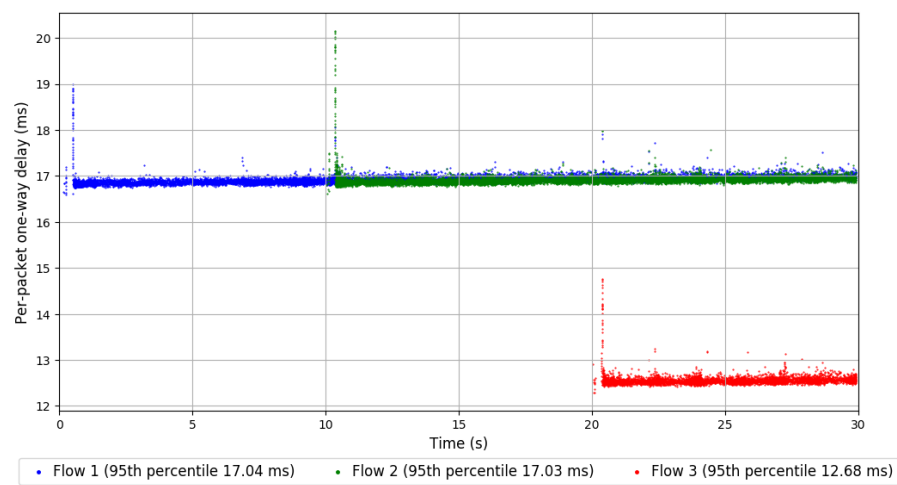
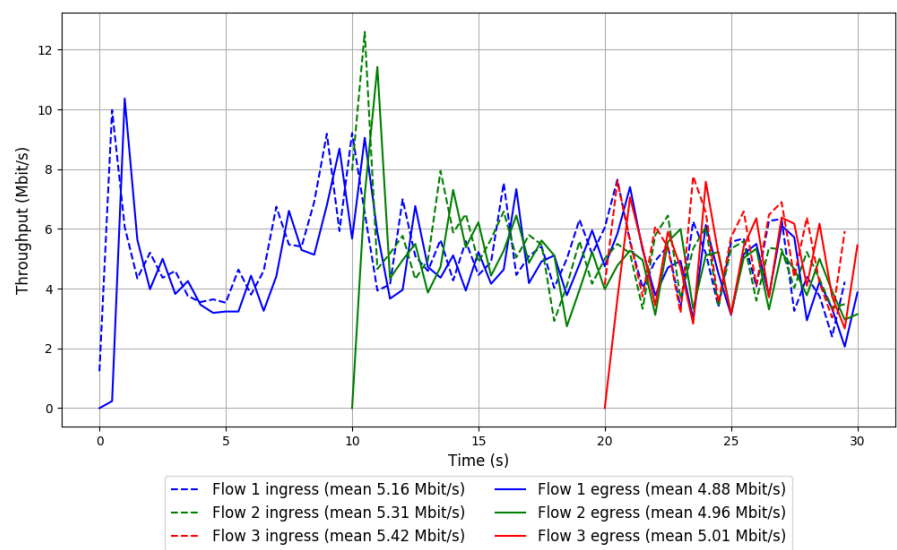
-- Flow 3:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 12.678 ms

Loss rate: 7.73%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 12:29:15

End at: 2018-05-25 12:29:45

Local clock offset: 0.841 ms

Remote clock offset: 8.921 ms

Below is generated by plot.py at 2018-05-25 15:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 15.499 ms

Loss rate: 7.55%

-- Flow 1:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 15.530 ms

Loss rate: 7.69%

-- Flow 2:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 12.422 ms

Loss rate: 7.75%

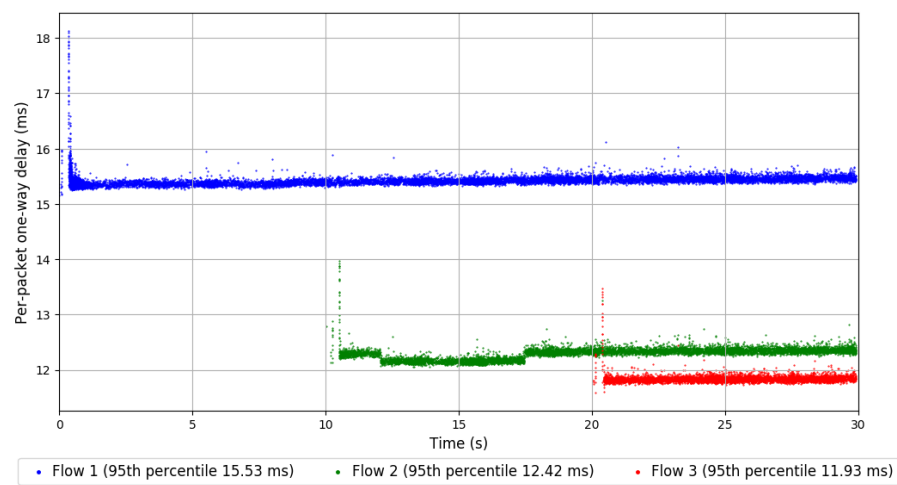
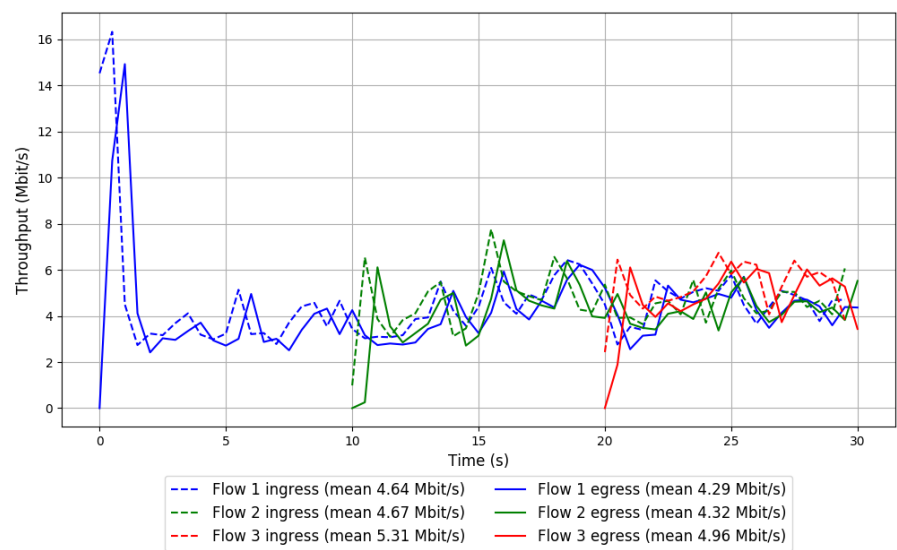
-- Flow 3:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 11.927 ms

Loss rate: 6.83%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 12:52:02

End at: 2018-05-25 12:52:32

Local clock offset: -2.111 ms

Remote clock offset: 2.827 ms

Below is generated by plot.py at 2018-05-25 15:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 9.171 ms

Loss rate: 7.17%

-- Flow 1:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 8.735 ms

Loss rate: 7.05%

-- Flow 2:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 9.211 ms

Loss rate: 7.43%

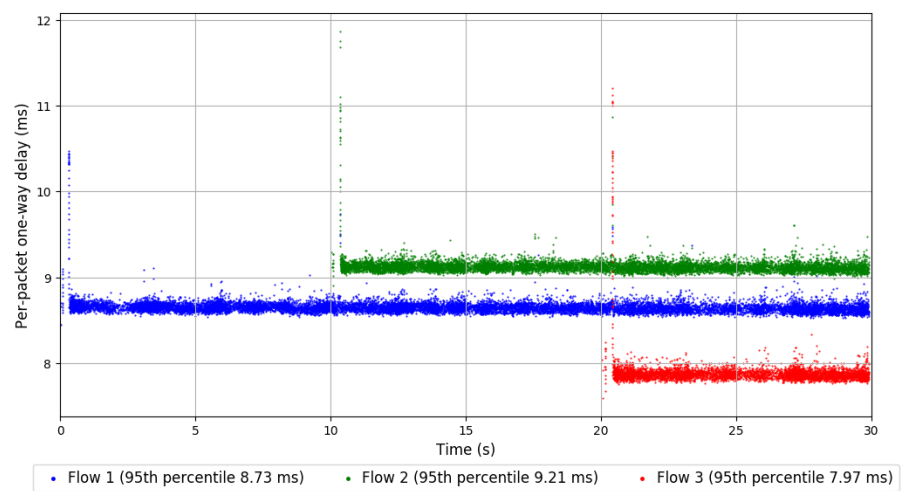
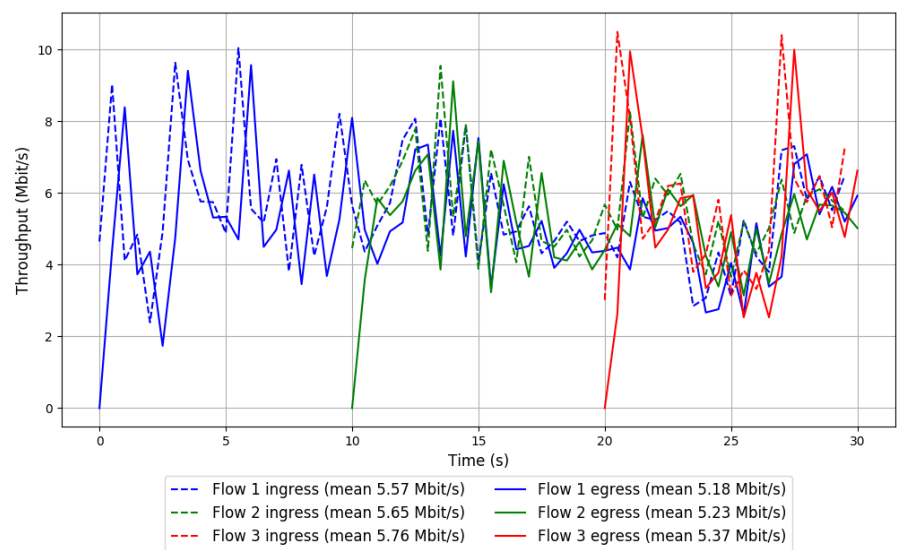
-- Flow 3:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 7.974 ms

Loss rate: 7.03%

Run 3: Report of QUIC Cubic — Data Link

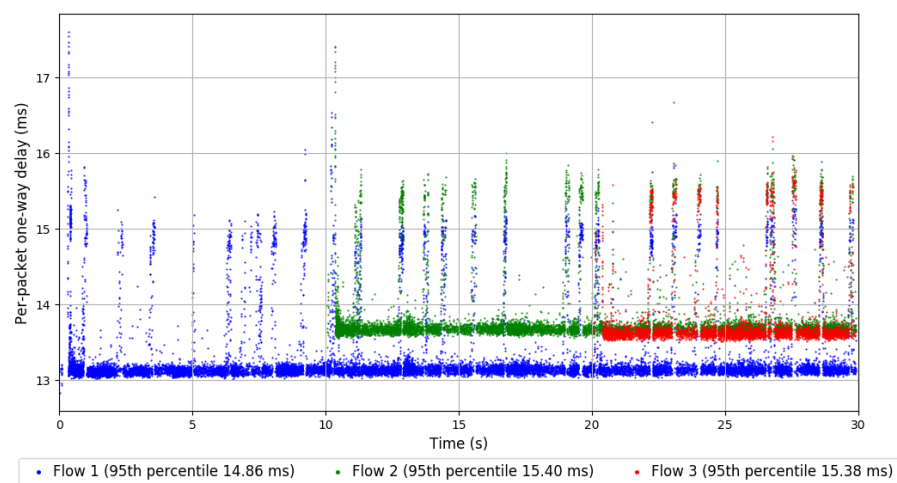
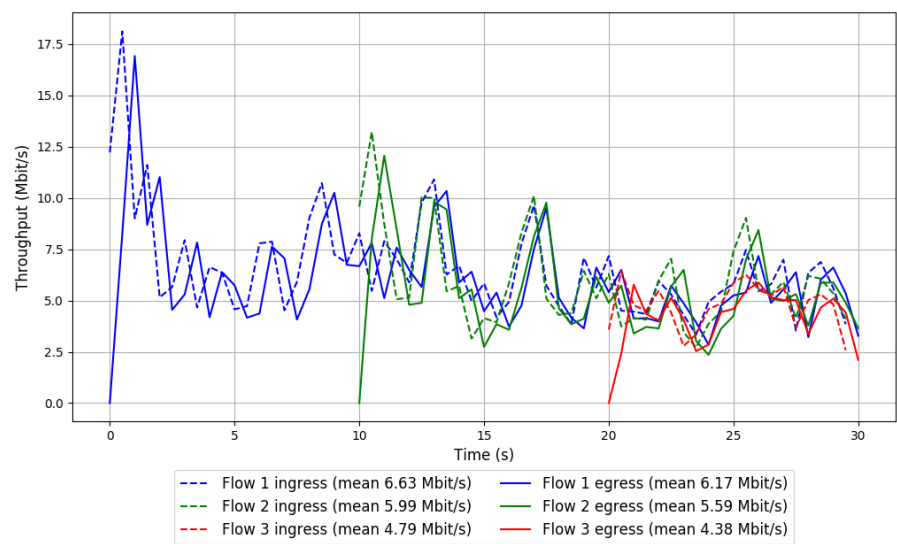


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 13:13:48
End at: 2018-05-25 13:14:18
Local clock offset: -0.466 ms
Remote clock offset: -1.168 ms

Below is generated by plot.py at 2018-05-25 16:00:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 15.002 ms
Loss rate: 7.13%
-- Flow 1:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 14.856 ms
Loss rate: 6.90%
-- Flow 2:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 15.396 ms
Loss rate: 6.81%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 15.377 ms
Loss rate: 8.86%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 13:36:18

End at: 2018-05-25 13:36:48

Local clock offset: 0.599 ms

Remote clock offset: 5.054 ms

Below is generated by plot.py at 2018-05-25 16:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 9.461 ms

Loss rate: 8.46%

-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 8.297 ms

Loss rate: 8.15%

-- Flow 2:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 9.062 ms

Loss rate: 8.85%

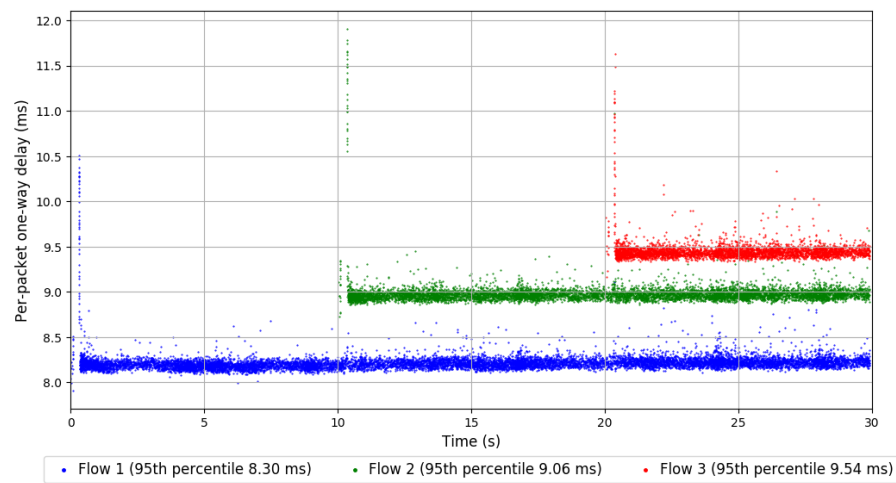
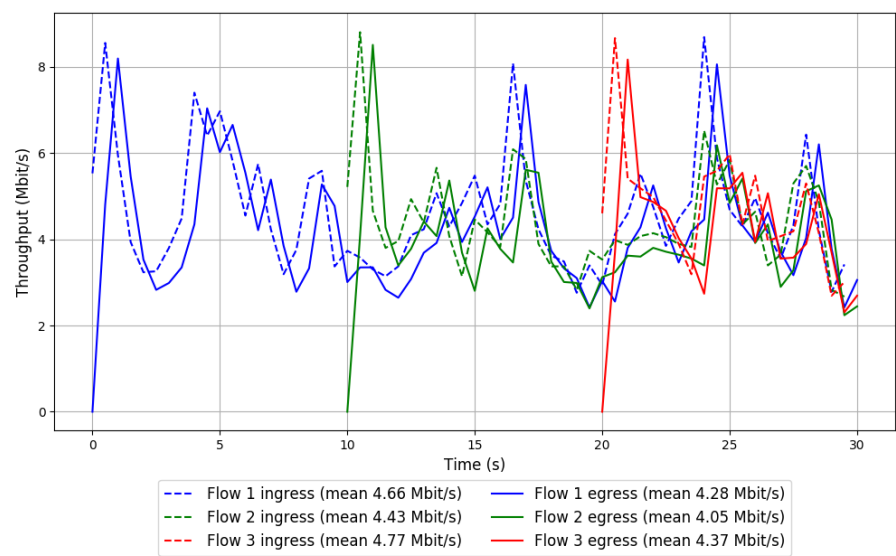
-- Flow 3:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 9.542 ms

Loss rate: 8.66%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 13:59:40

End at: 2018-05-25 14:00:10

Local clock offset: -1.77 ms

Remote clock offset: 6.259 ms

Below is generated by plot.py at 2018-05-25 16:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 6.839 ms

Loss rate: 9.43%

-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 6.830 ms

Loss rate: 9.46%

-- Flow 2:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 6.838 ms

Loss rate: 9.15%

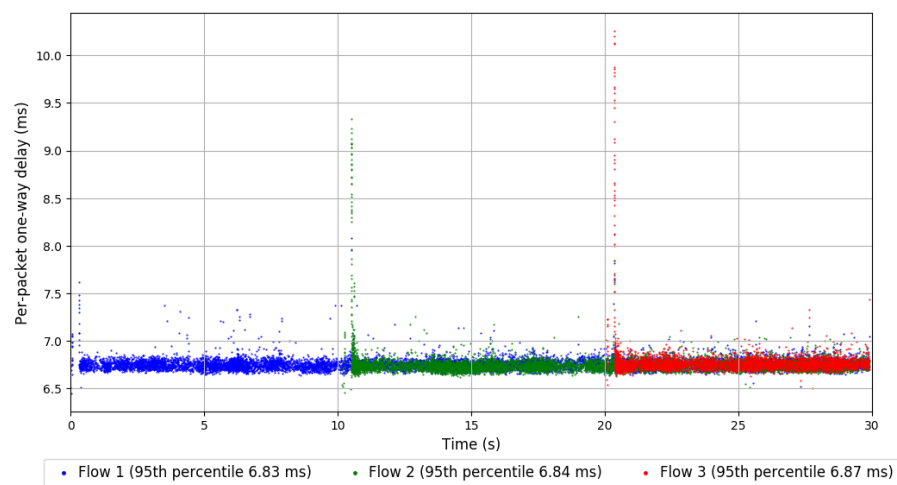
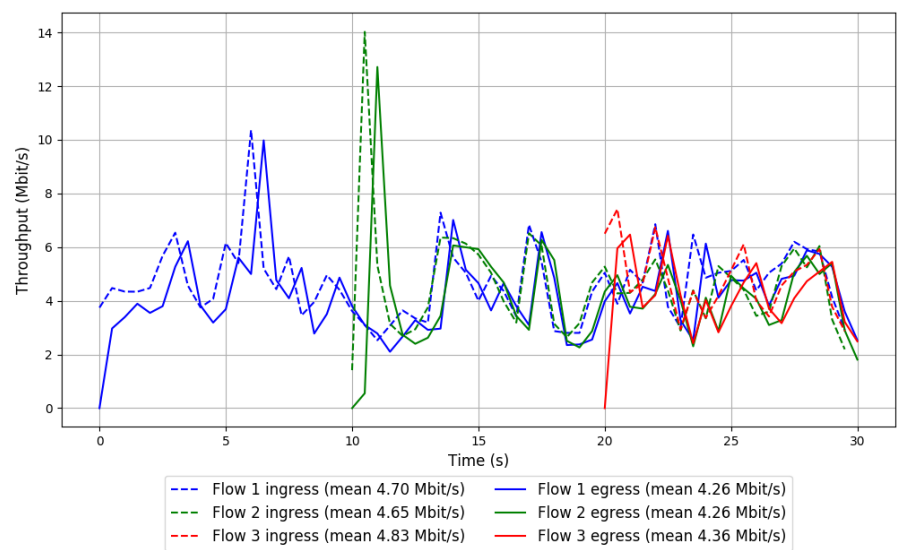
-- Flow 3:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 6.870 ms

Loss rate: 9.87%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 14:22:43

End at: 2018-05-25 14:23:13

Local clock offset: -0.996 ms

Remote clock offset: 7.812 ms

Below is generated by plot.py at 2018-05-25 16:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 7.421 ms

Loss rate: 10.86%

-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 7.403 ms

Loss rate: 10.40%

-- Flow 2:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 7.398 ms

Loss rate: 10.46%

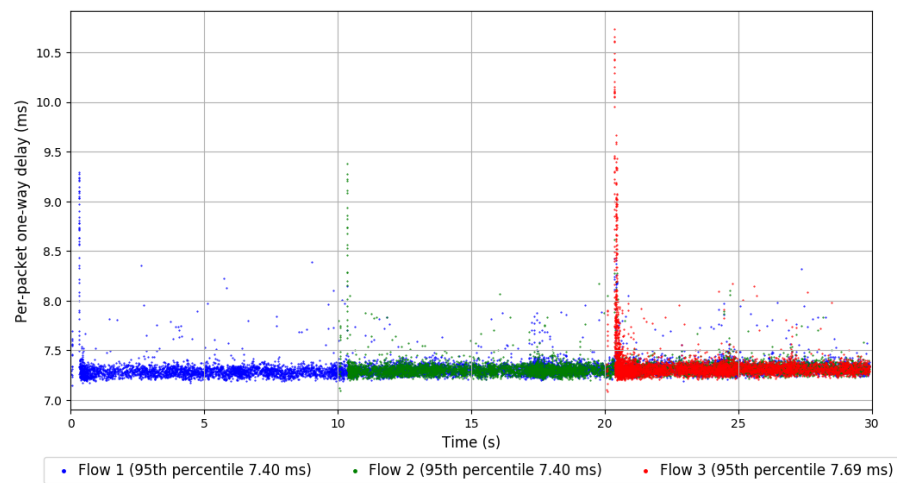
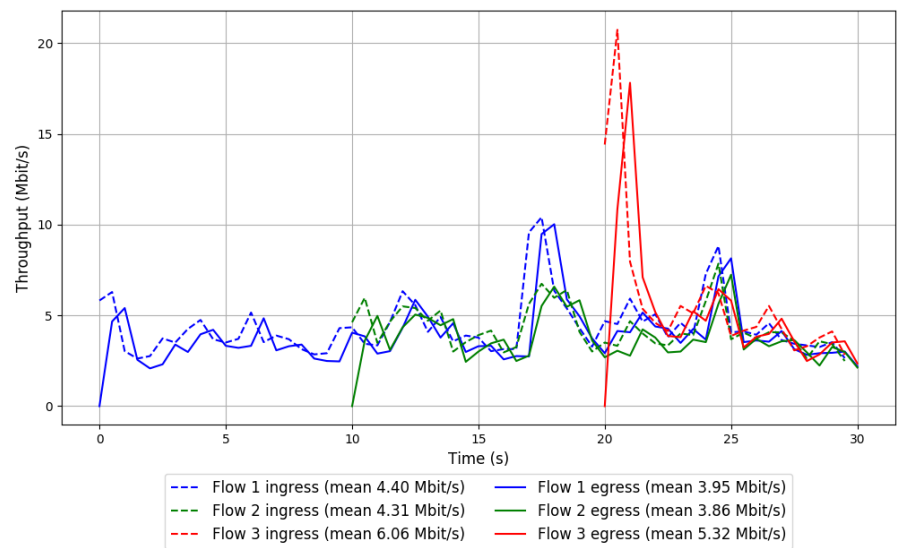
-- Flow 3:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 7.694 ms

Loss rate: 12.46%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 14:45:50

End at: 2018-05-25 14:46:20

Local clock offset: 1.895 ms

Remote clock offset: 9.256 ms

Below is generated by plot.py at 2018-05-25 16:00:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 10.164 ms

Loss rate: 6.65%

-- Flow 1:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 10.149 ms

Loss rate: 5.97%

-- Flow 2:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 10.158 ms

Loss rate: 6.97%

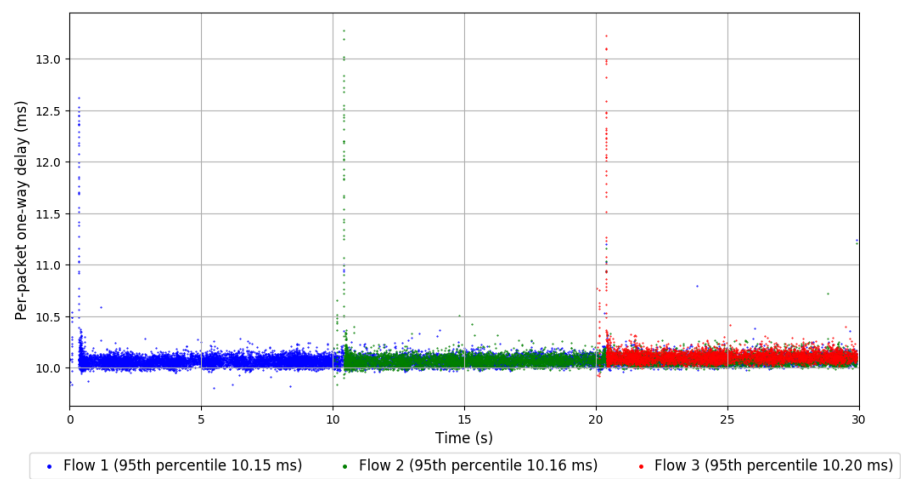
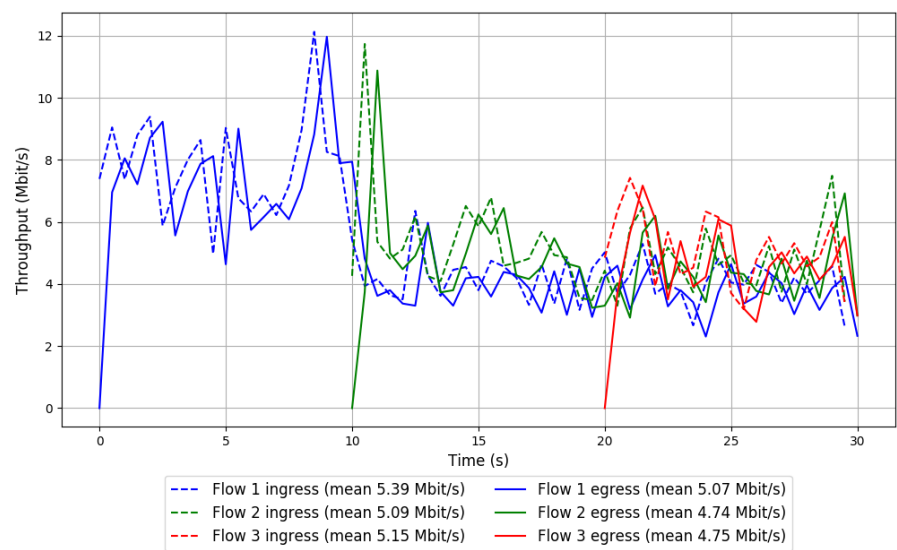
-- Flow 3:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 10.201 ms

Loss rate: 8.14%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 15:08:00

End at: 2018-05-25 15:08:30

Local clock offset: -0.295 ms

Remote clock offset: 2.347 ms

Below is generated by plot.py at 2018-05-25 16:00:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 12.431 ms

Loss rate: 6.02%

-- Flow 1:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 12.419 ms

Loss rate: 6.19%

-- Flow 2:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 12.439 ms

Loss rate: 5.89%

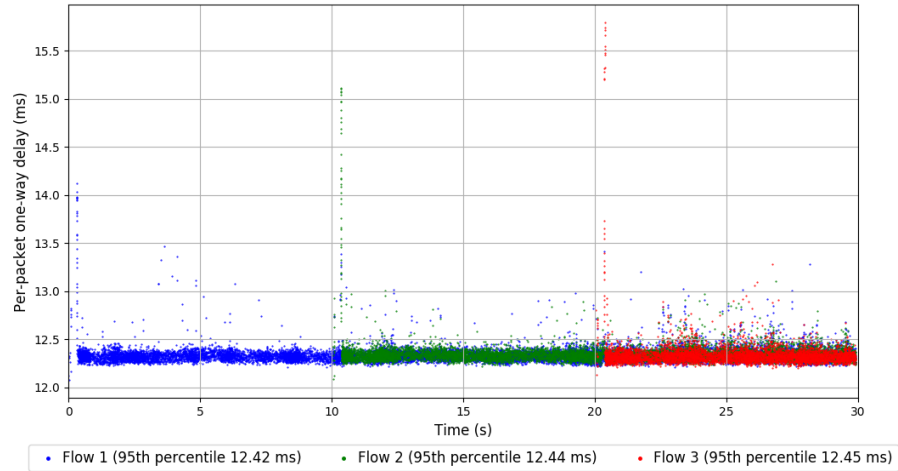
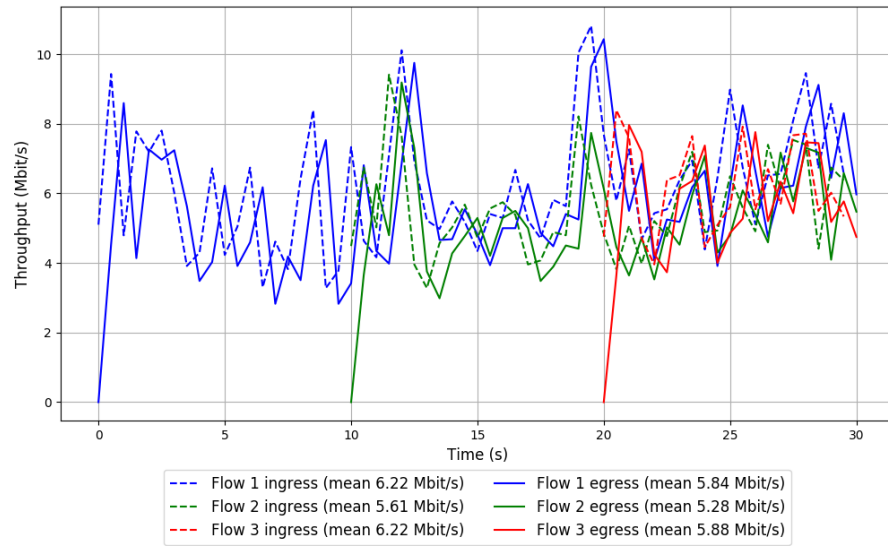
-- Flow 3:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 12.451 ms

Loss rate: 5.75%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 15:30:54

End at: 2018-05-25 15:31:24

Local clock offset: 1.256 ms

Remote clock offset: 1.313 ms

Below is generated by plot.py at 2018-05-25 16:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 13.459 ms

Loss rate: 5.03%

-- Flow 1:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 13.460 ms

Loss rate: 4.63%

-- Flow 2:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 13.458 ms

Loss rate: 5.42%

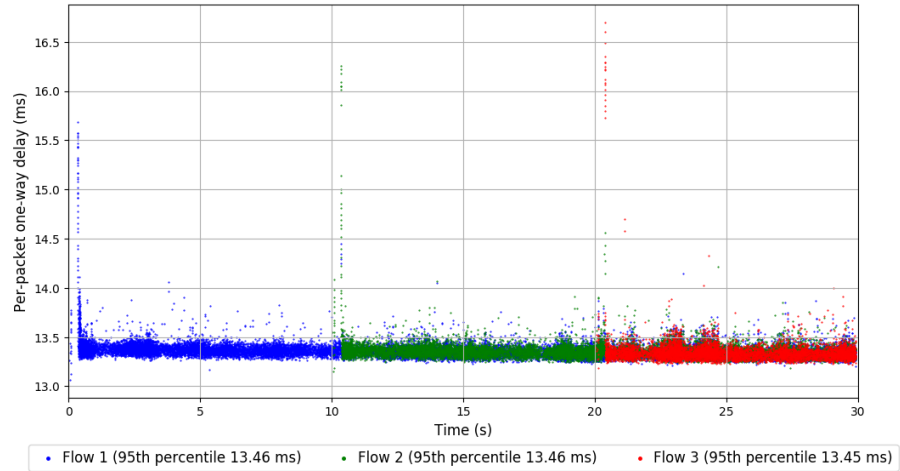
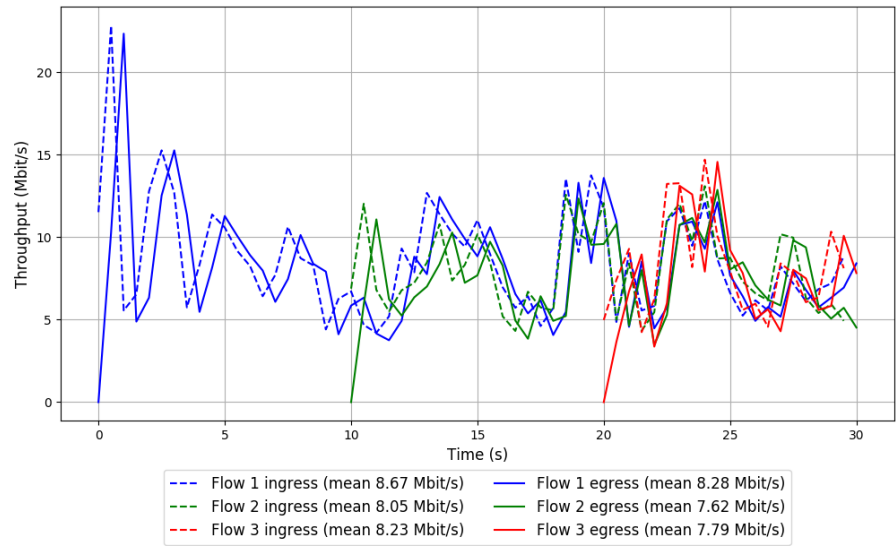
-- Flow 3:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 13.454 ms

Loss rate: 5.55%

Run 10: Report of QUIC Cubic — Data Link

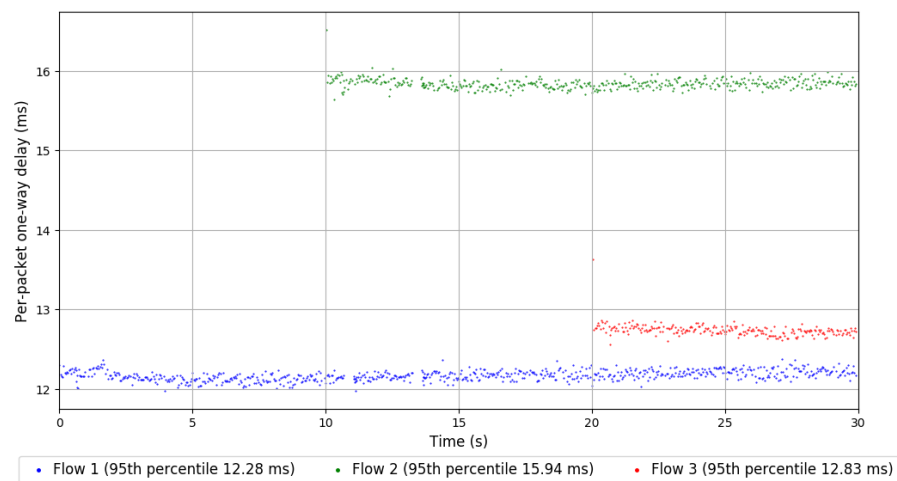
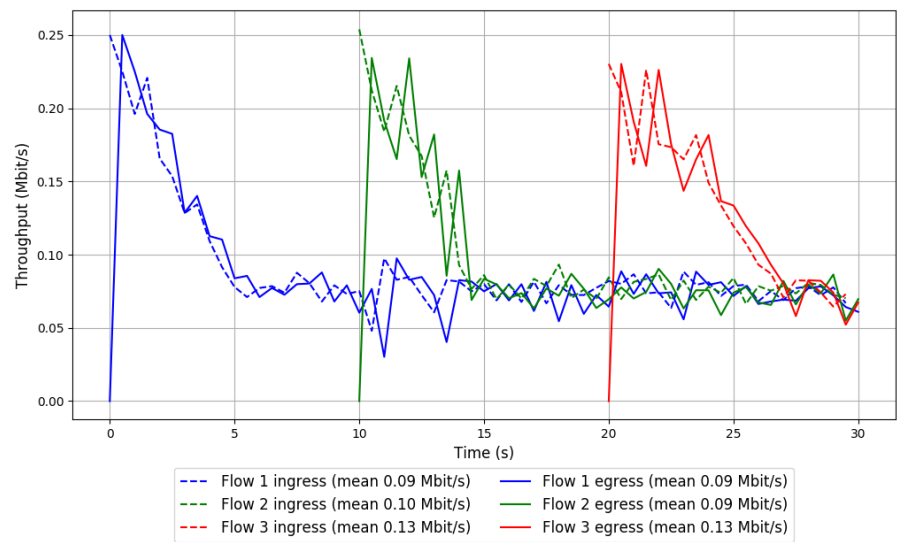


```
Run 1: Statistics of SCReAM

Start at: 2018-05-25 12:11:28
End at: 2018-05-25 12:11:58
Local clock offset: -1.627 ms
Remote clock offset: 2.898 ms

# Below is generated by plot.py at 2018-05-25 16:00:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 15.899 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 12.275 ms
Loss rate: 3.53%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 15.939 ms
Loss rate: 5.76%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 12.831 ms
Loss rate: 3.75%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-05-25 12:34:04

End at: 2018-05-25 12:34:34

Local clock offset: -0.149 ms

Remote clock offset: 3.637 ms

Below is generated by plot.py at 2018-05-25 16:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 13.747 ms

Loss rate: 5.85%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 13.480 ms

Loss rate: 6.67%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 13.447 ms

Loss rate: 6.29%

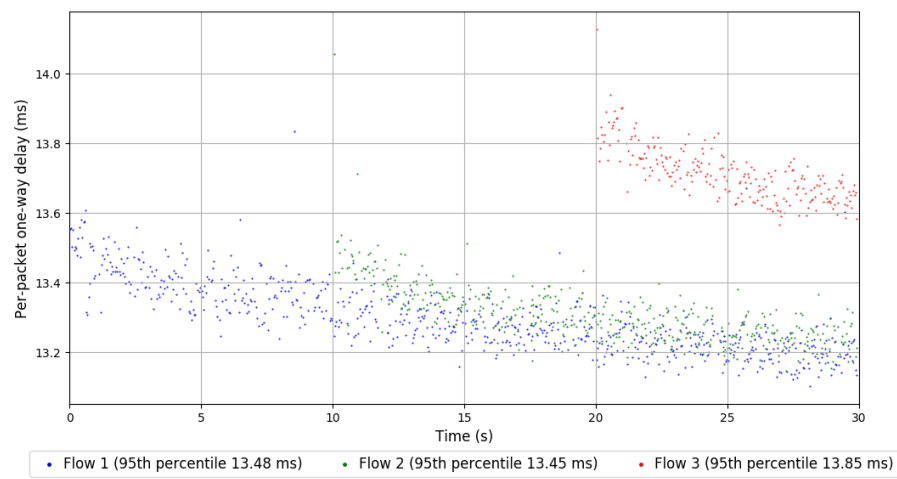
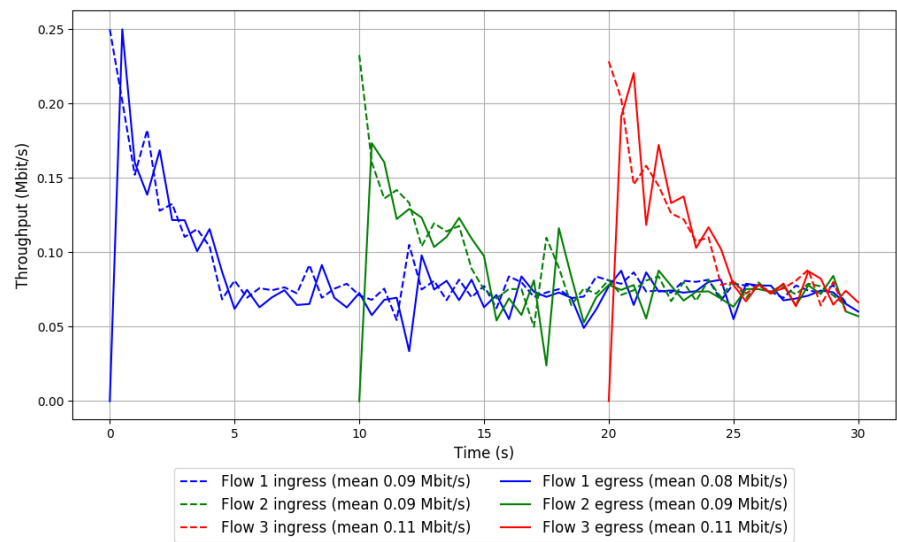
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 13.847 ms

Loss rate: 3.15%

Run 2: Report of SReAM — Data Link

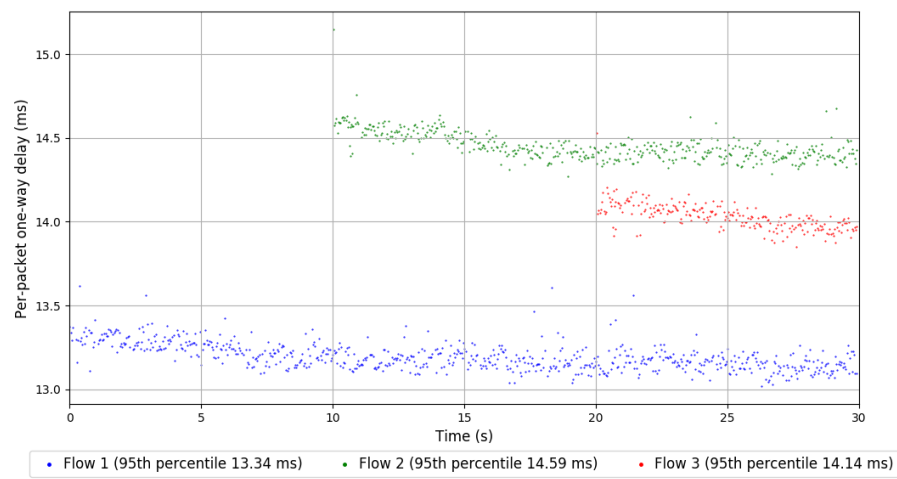
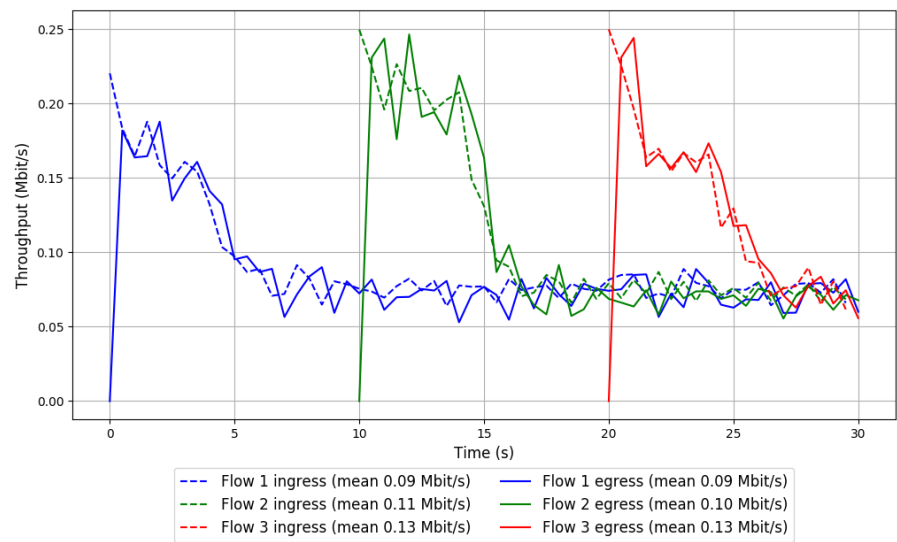


Run 3: Statistics of SCReAM

Start at: 2018-05-25 12:56:45
End at: 2018-05-25 12:57:15
Local clock offset: -0.713 ms
Remote clock offset: -1.876 ms

Below is generated by plot.py at 2018-05-25 16:00:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 14.538 ms
Loss rate: 4.85%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 13.337 ms
Loss rate: 5.18%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 14.591 ms
Loss rate: 5.22%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 14.145 ms
Loss rate: 3.56%

Run 3: Report of SReAM — Data Link

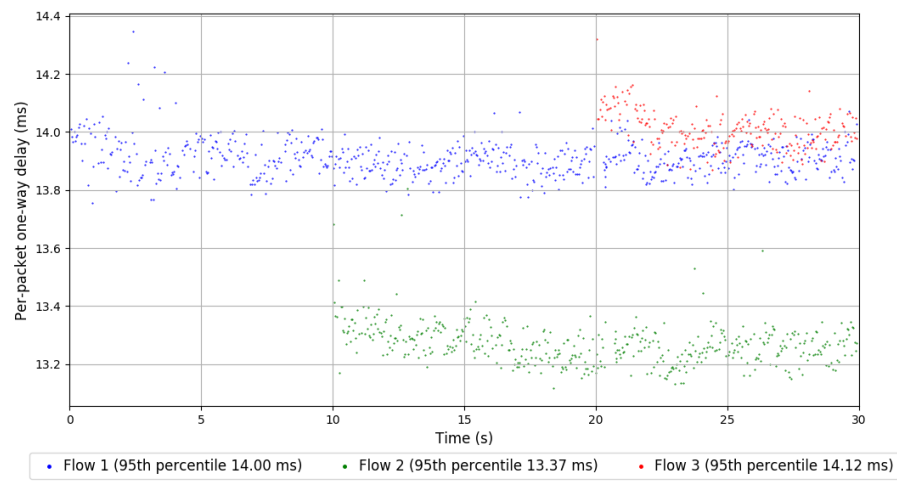
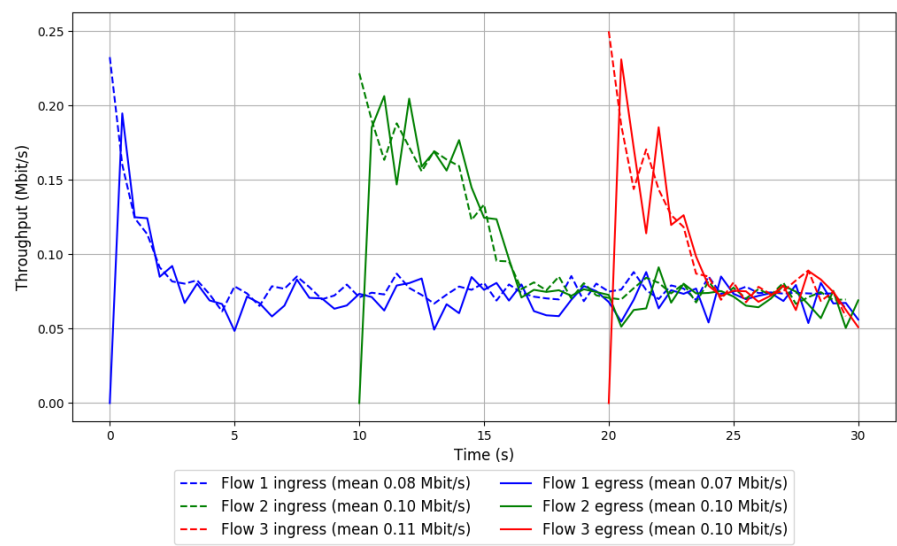


Run 4: Statistics of SCReAM

Start at: 2018-05-25 13:19:02
End at: 2018-05-25 13:19:32
Local clock offset: -0.707 ms
Remote clock offset: -2.159 ms

Below is generated by plot.py at 2018-05-25 16:00:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.045 ms
Loss rate: 6.59%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 14.002 ms
Loss rate: 8.25%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 13.365 ms
Loss rate: 4.62%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 14.117 ms
Loss rate: 6.55%

Run 4: Report of SCSReAM — Data Link

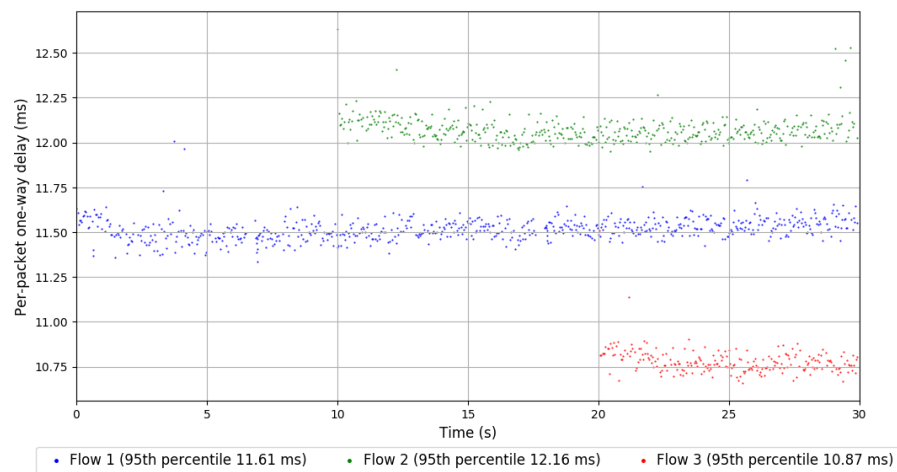
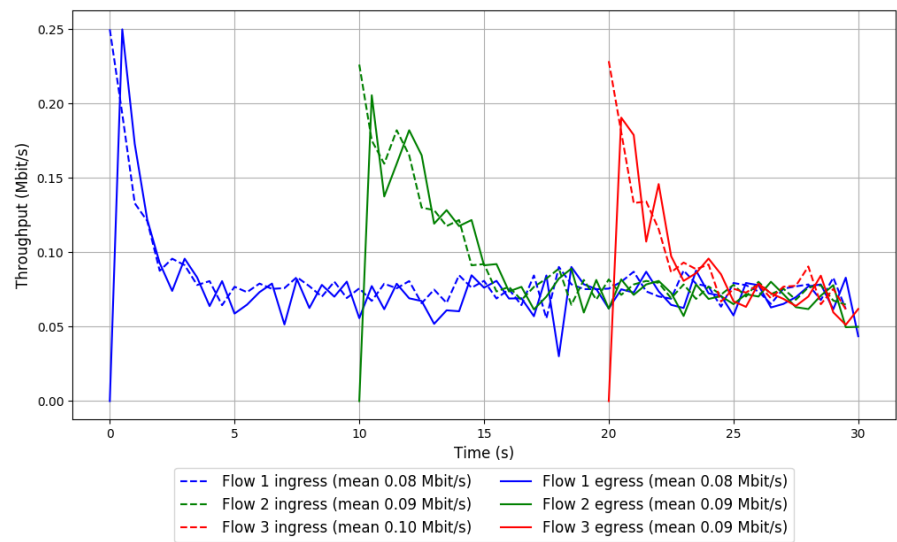


Run 5: Statistics of SReAM

Start at: 2018-05-25 13:41:29
End at: 2018-05-25 13:41:59
Local clock offset: -2.896 ms
Remote clock offset: -0.406 ms

Below is generated by plot.py at 2018-05-25 16:00:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 12.122 ms
Loss rate: 6.50%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 11.606 ms
Loss rate: 7.13%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 12.161 ms
Loss rate: 5.01%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 10.866 ms
Loss rate: 7.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-25 14:04:44

End at: 2018-05-25 14:05:14

Local clock offset: 1.875 ms

Remote clock offset: 7.191 ms

Below is generated by plot.py at 2018-05-25 16:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 9.519 ms

Loss rate: 7.34%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 9.495 ms

Loss rate: 5.70%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 9.516 ms

Loss rate: 10.57%

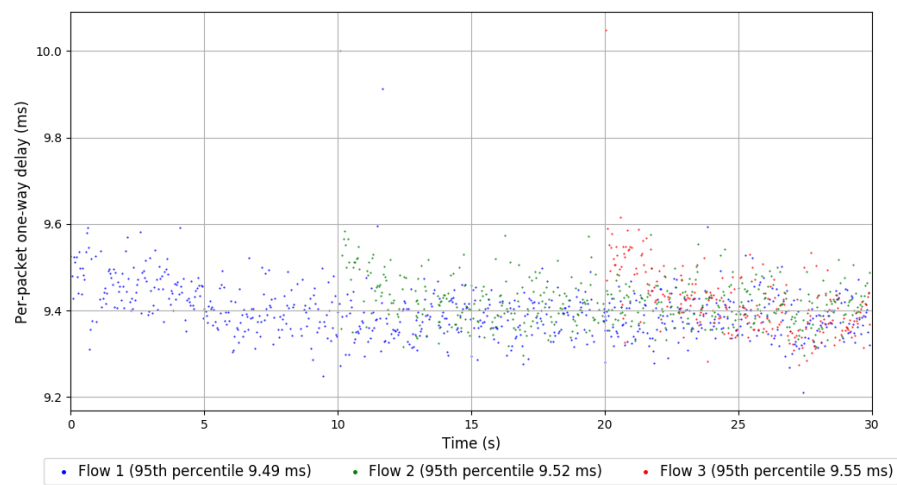
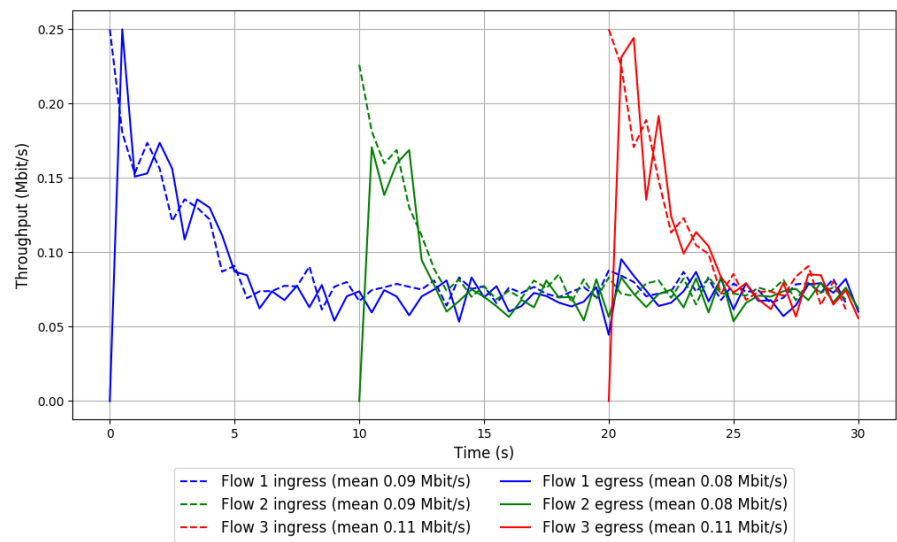
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 9.548 ms

Loss rate: 6.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-25 14:28:18

End at: 2018-05-25 14:28:48

Local clock offset: 1.068 ms

Remote clock offset: 3.611 ms

Below is generated by plot.py at 2018-05-25 16:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 14.031 ms

Loss rate: 8.42%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 13.980 ms

Loss rate: 8.68%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 14.056 ms

Loss rate: 9.11%

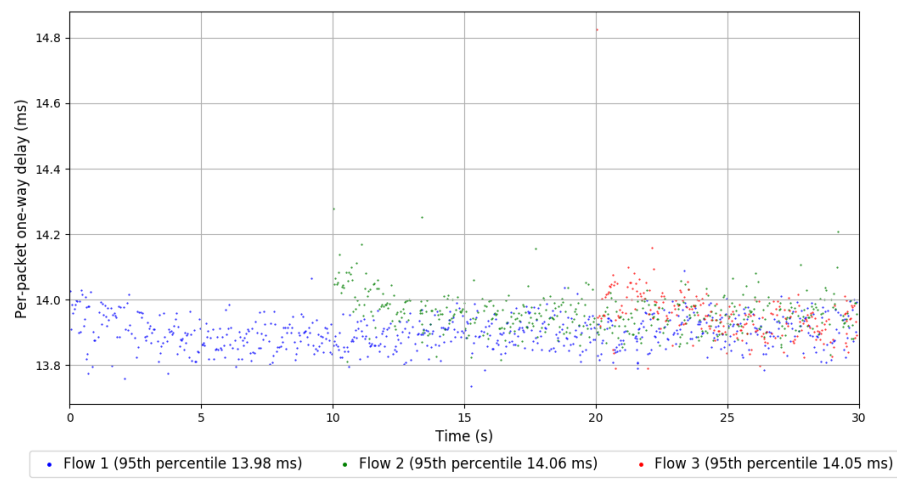
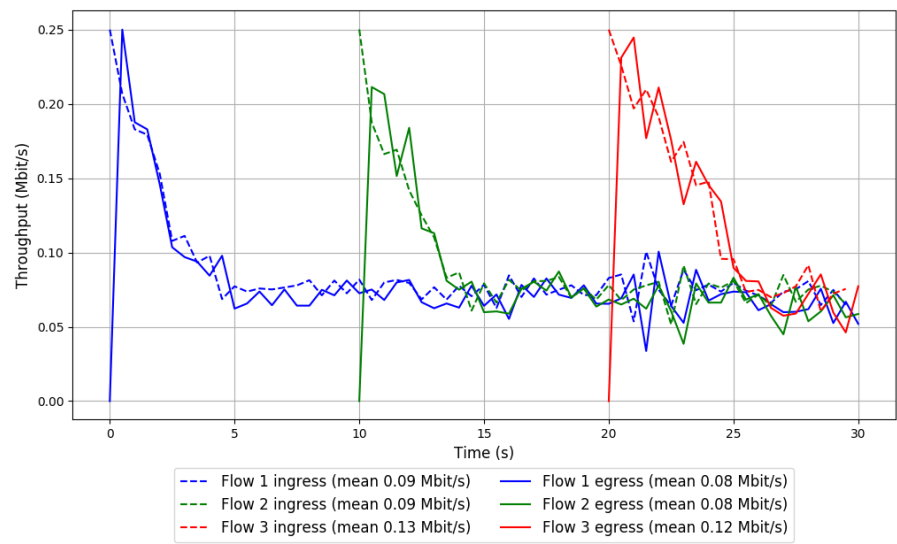
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 14.051 ms

Loss rate: 6.94%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-25 14:50:42

End at: 2018-05-25 14:51:12

Local clock offset: -5.308 ms

Remote clock offset: 5.133 ms

Below is generated by plot.py at 2018-05-25 16:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 5.928 ms

Loss rate: 6.34%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 5.878 ms

Loss rate: 6.76%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 5.957 ms

Loss rate: 4.94%

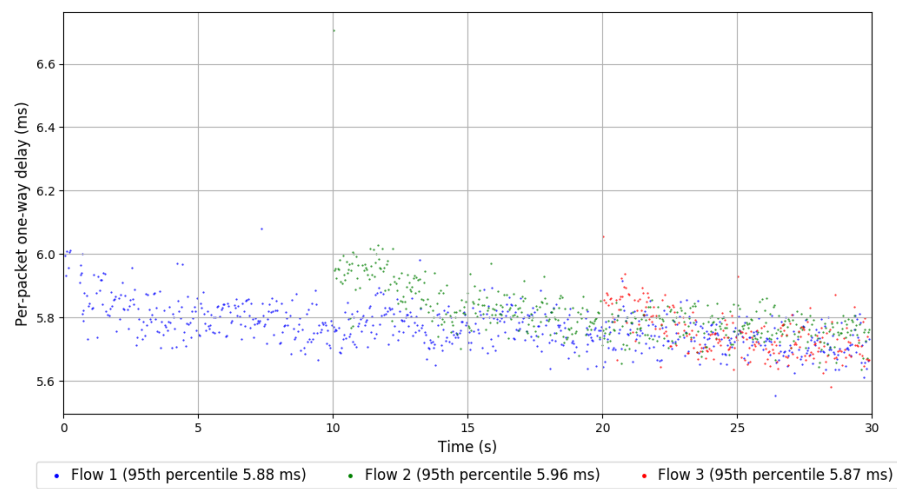
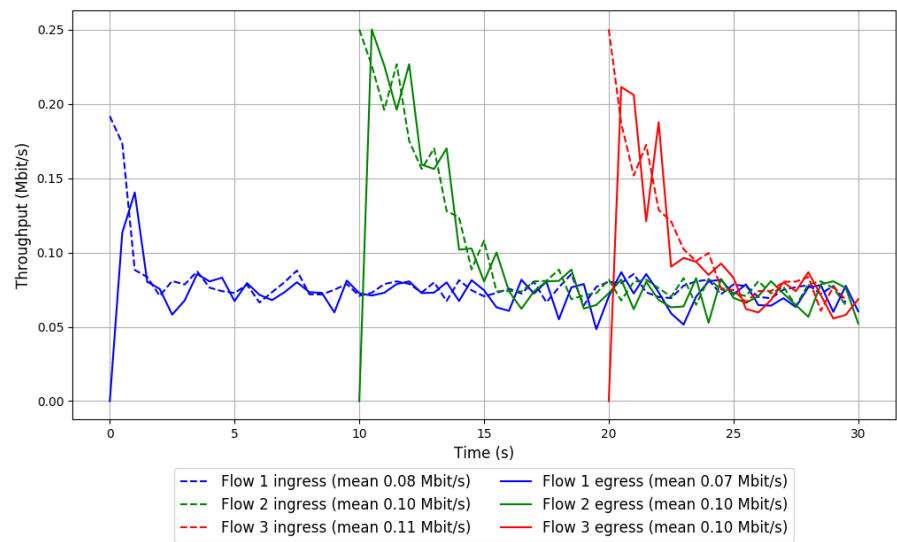
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 5.872 ms

Loss rate: 8.07%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-25 15:13:16

End at: 2018-05-25 15:13:46

Local clock offset: -3.569 ms

Remote clock offset: 2.337 ms

Below is generated by plot.py at 2018-05-25 16:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 8.924 ms

Loss rate: 7.02%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 8.928 ms

Loss rate: 6.06%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 8.904 ms

Loss rate: 7.29%

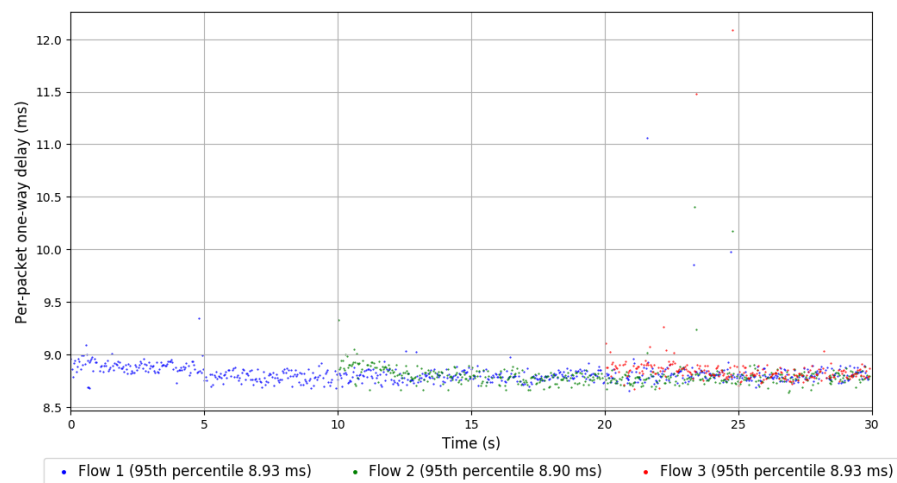
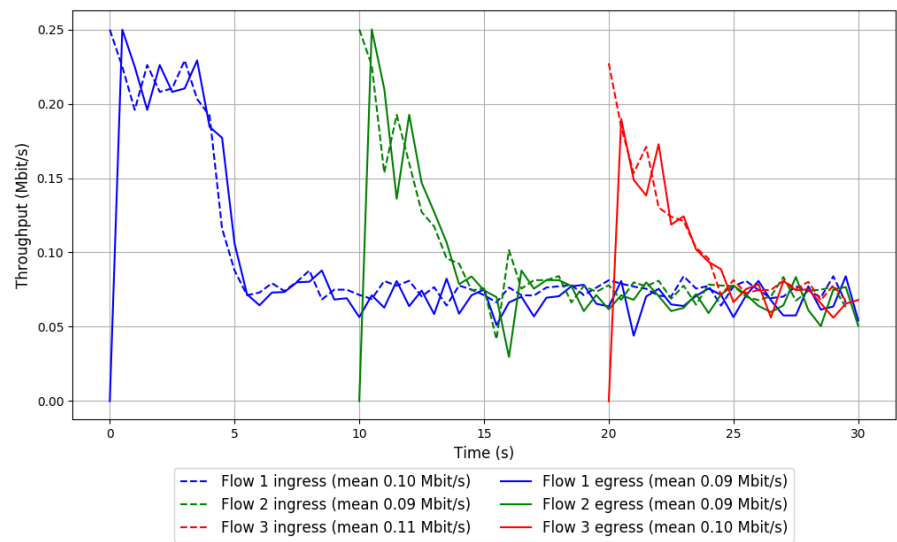
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 8.933 ms

Loss rate: 9.14%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-05-25 15:35:31

End at: 2018-05-25 15:36:01

Local clock offset: -3.177 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at 2018-05-25 16:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 8.783 ms

Loss rate: 5.32%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 8.806 ms

Loss rate: 5.94%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 8.754 ms

Loss rate: 4.33%

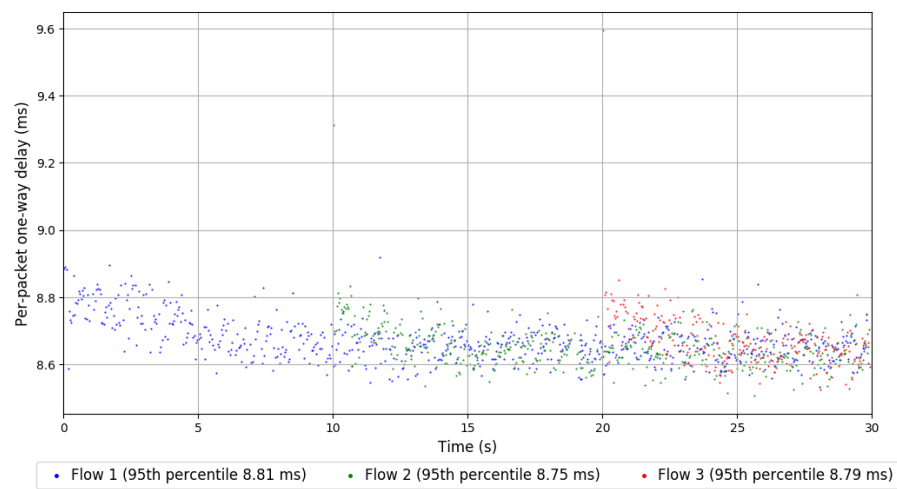
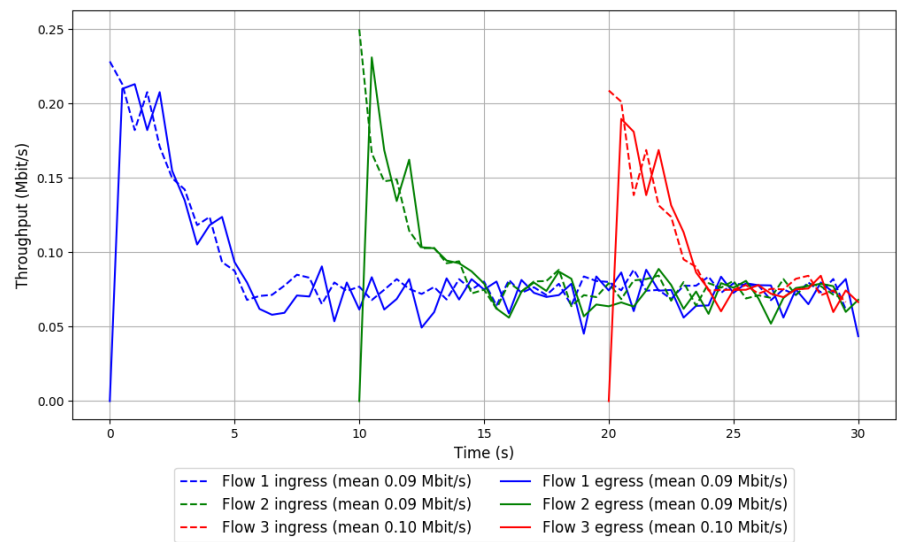
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 8.792 ms

Loss rate: 5.39%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 12:07:46

End at: 2018-05-25 12:08:16

Local clock offset: -0.602 ms

Remote clock offset: 2.616 ms

Below is generated by plot.py at 2018-05-25 16:00:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 22.031 ms

Loss rate: 12.69%

-- Flow 1:

Average throughput: 16.00 Mbit/s

95th percentile per-packet one-way delay: 20.523 ms

Loss rate: 12.80%

-- Flow 2:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 19.847 ms

Loss rate: 12.27%

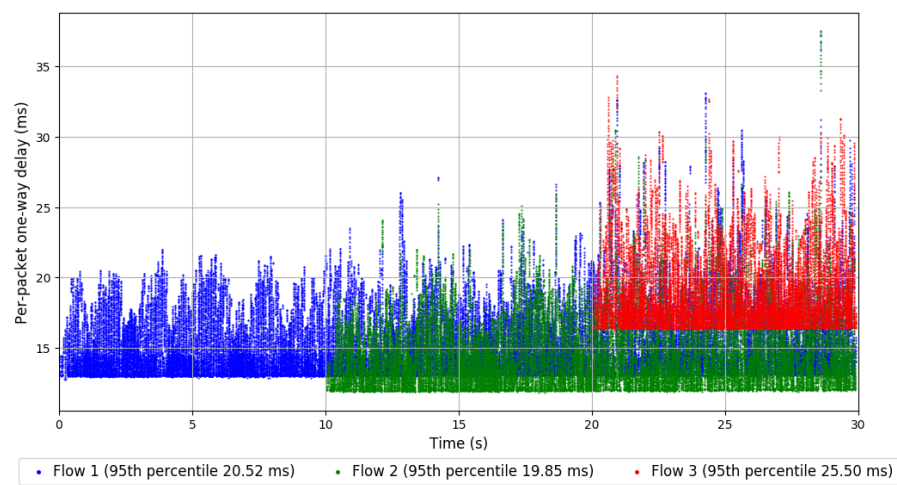
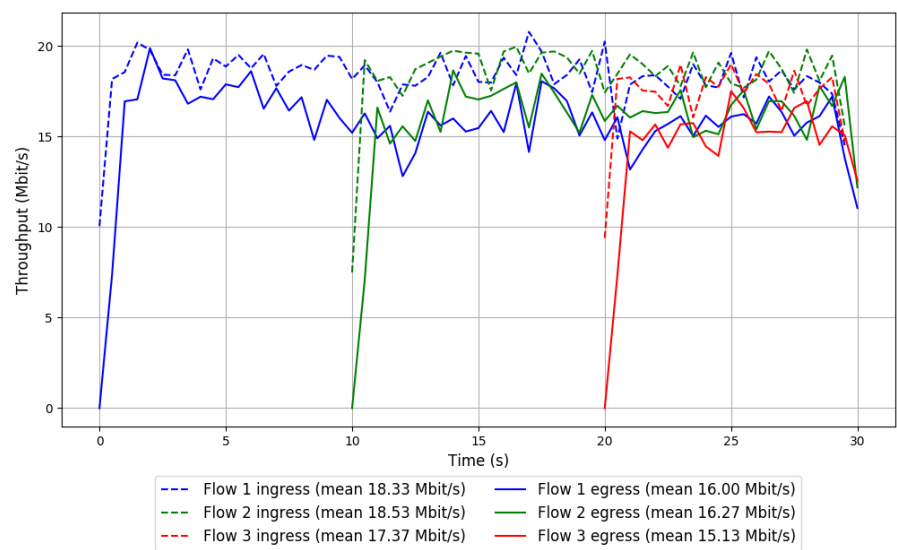
-- Flow 3:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 25.505 ms

Loss rate: 13.21%

Run 1: Report of Sprout — Data Link

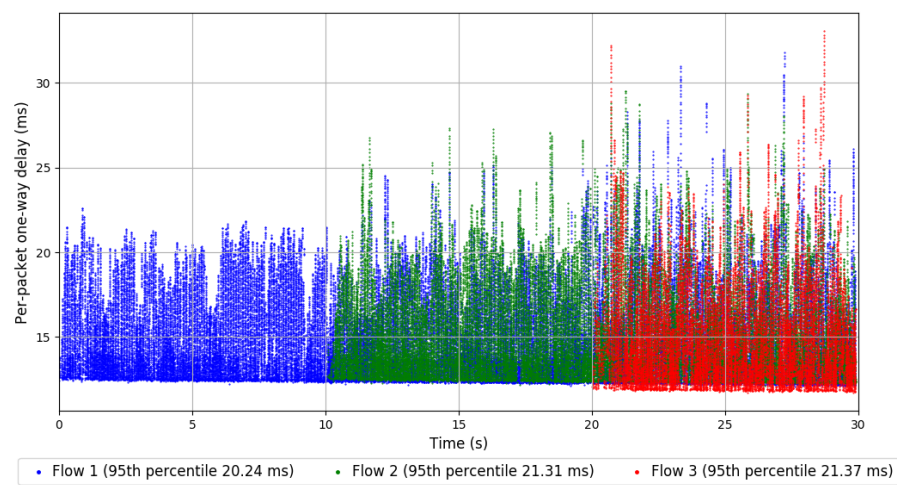
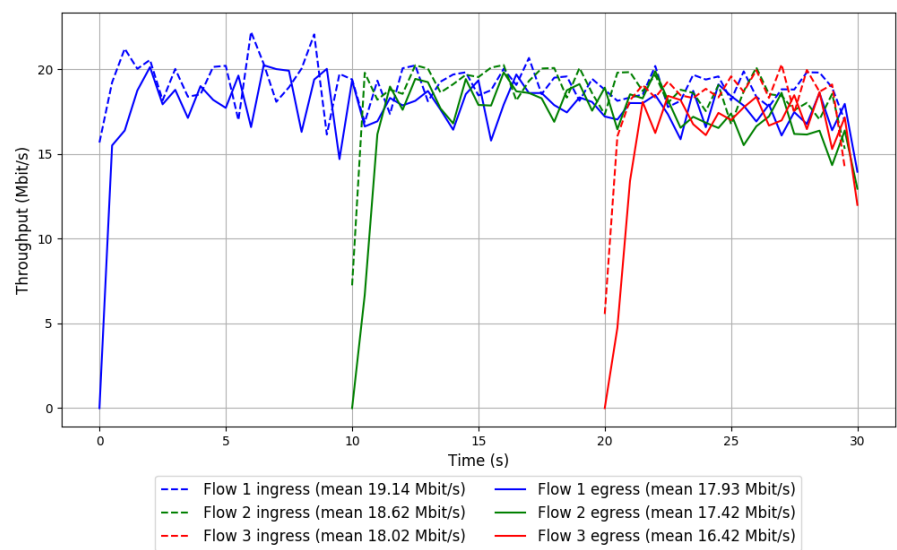


Run 2: Statistics of Sprout

Start at: 2018-05-25 12:30:26
End at: 2018-05-25 12:30:56
Local clock offset: -1.734 ms
Remote clock offset: 5.606 ms

Below is generated by plot.py at 2018-05-25 16:00:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 20.738 ms
Loss rate: 6.98%
-- Flow 1:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 20.241 ms
Loss rate: 6.43%
-- Flow 2:
Average throughput: 17.42 Mbit/s
95th percentile per-packet one-way delay: 21.308 ms
Loss rate: 6.81%
-- Flow 3:
Average throughput: 16.42 Mbit/s
95th percentile per-packet one-way delay: 21.367 ms
Loss rate: 9.07%

Run 2: Report of Sprout — Data Link

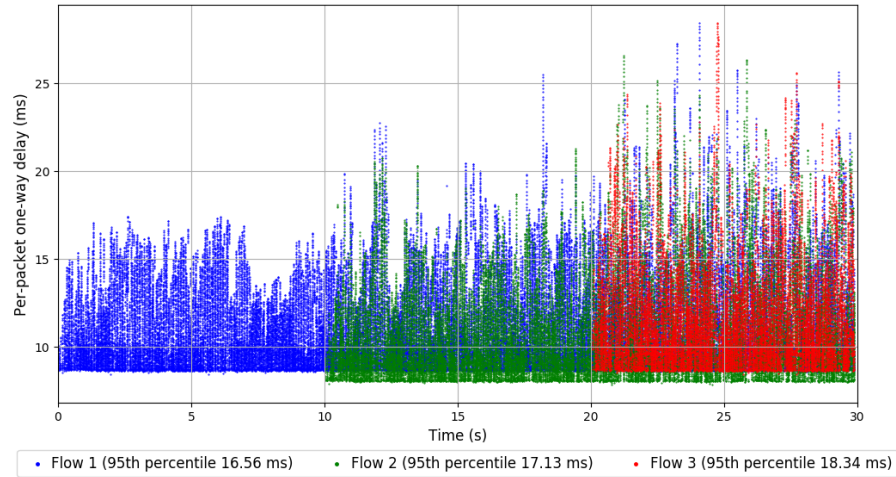
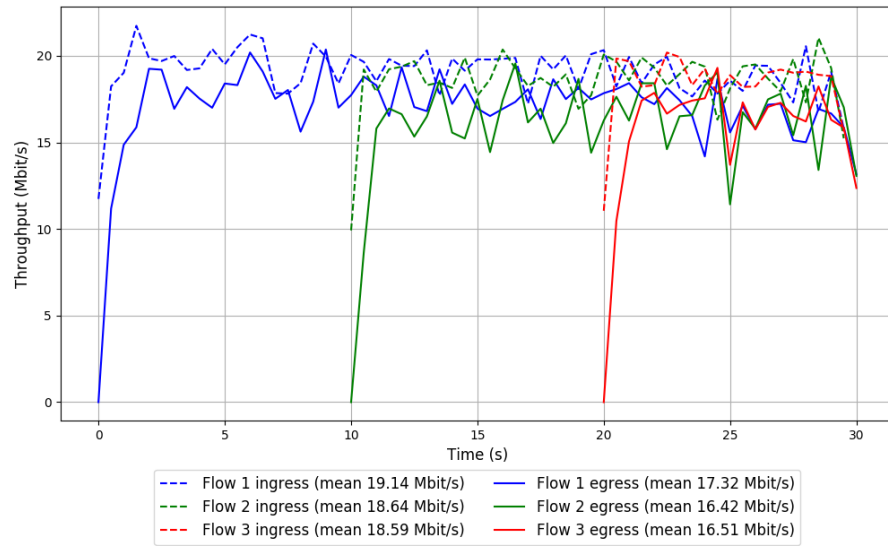


Run 3: Statistics of Sprout

Start at: 2018-05-25 12:53:11
End at: 2018-05-25 12:53:41
Local clock offset: -1.113 ms
Remote clock offset: 4.151 ms

Below is generated by plot.py at 2018-05-25 16:00:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 17.056 ms
Loss rate: 10.66%
-- Flow 1:
Average throughput: 17.32 Mbit/s
95th percentile per-packet one-way delay: 16.561 ms
Loss rate: 9.55%
-- Flow 2:
Average throughput: 16.42 Mbit/s
95th percentile per-packet one-way delay: 17.128 ms
Loss rate: 11.97%
-- Flow 3:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 18.344 ms
Loss rate: 11.46%

Run 3: Report of Sprout — Data Link

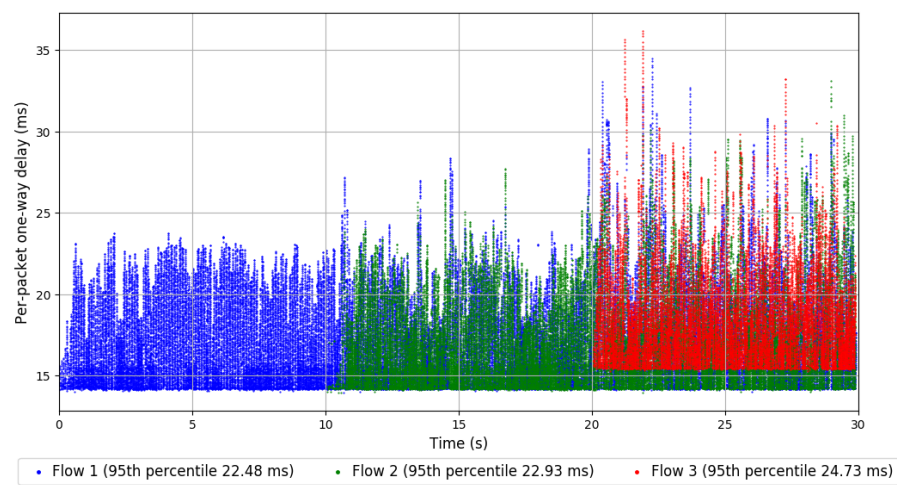
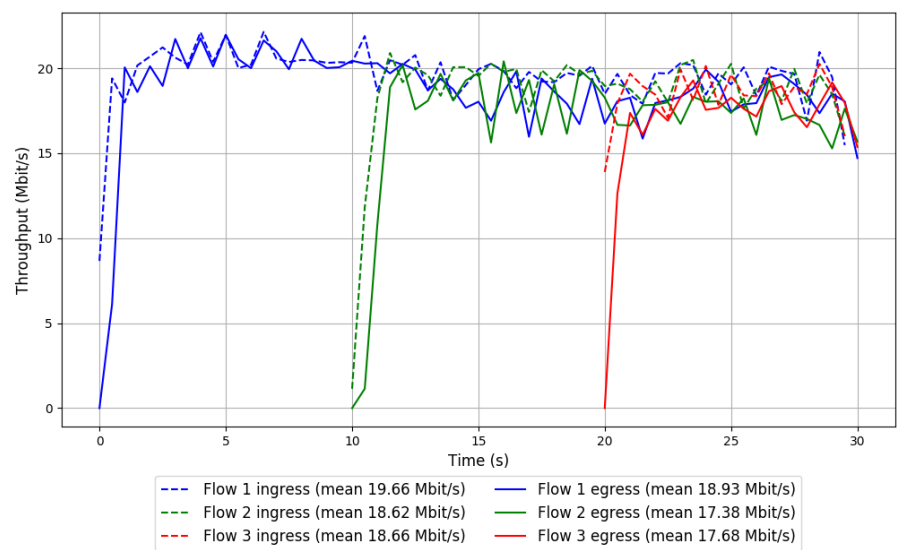


Run 4: Statistics of Sprout

Start at: 2018-05-25 13:15:02
End at: 2018-05-25 13:15:32
Local clock offset: 1.475 ms
Remote clock offset: -1.028 ms

```
# Below is generated by plot.py at 2018-05-25 16:00:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 22.974 ms
Loss rate: 5.04%
-- Flow 1:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 22.481 ms
Loss rate: 3.79%
-- Flow 2:
Average throughput: 17.38 Mbit/s
95th percentile per-packet one-way delay: 22.933 ms
Loss rate: 6.81%
-- Flow 3:
Average throughput: 17.68 Mbit/s
95th percentile per-packet one-way delay: 24.725 ms
Loss rate: 5.48%
```

Run 4: Report of Sprout — Data Link

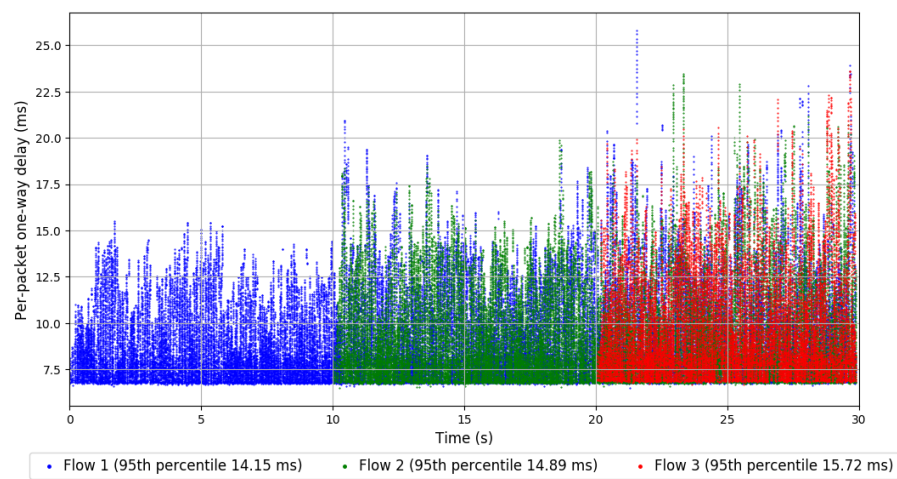
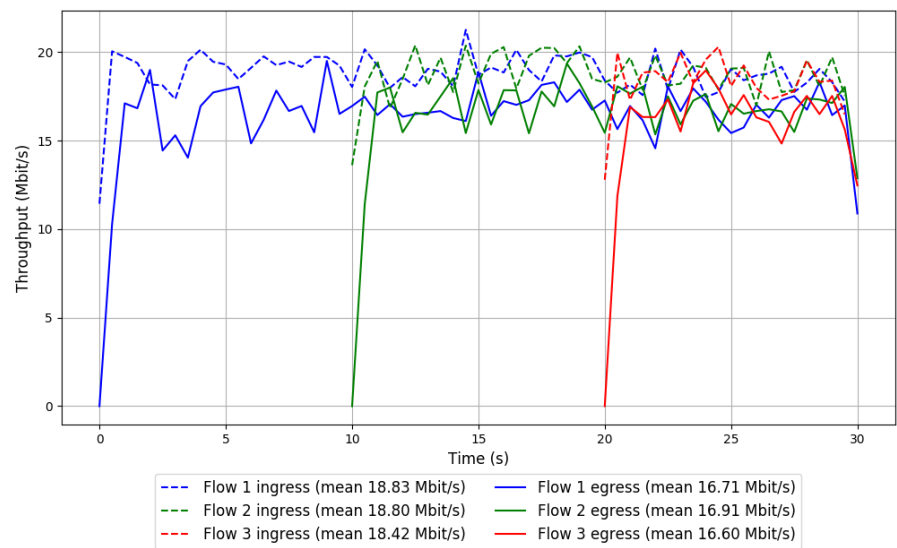


Run 5: Statistics of Sprout

Start at: 2018-05-25 13:37:29
End at: 2018-05-25 13:37:59
Local clock offset: -3.028 ms
Remote clock offset: 4.013 ms

```
# Below is generated by plot.py at 2018-05-25 16:00:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 14.738 ms
Loss rate: 11.00%
-- Flow 1:
Average throughput: 16.71 Mbit/s
95th percentile per-packet one-way delay: 14.155 ms
Loss rate: 11.53%
-- Flow 2:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 14.894 ms
Loss rate: 10.48%
-- Flow 3:
Average throughput: 16.60 Mbit/s
95th percentile per-packet one-way delay: 15.719 ms
Loss rate: 10.41%
```


Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-25 14:00:55

End at: 2018-05-25 14:01:25

Local clock offset: -2.21 ms

Remote clock offset: 6.535 ms

Below is generated by plot.py at 2018-05-25 16:00:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 14.234 ms

Loss rate: 10.61%

-- Flow 1:

Average throughput: 17.55 Mbit/s

95th percentile per-packet one-way delay: 13.673 ms

Loss rate: 8.66%

-- Flow 2:

Average throughput: 16.41 Mbit/s

95th percentile per-packet one-way delay: 14.614 ms

Loss rate: 12.17%

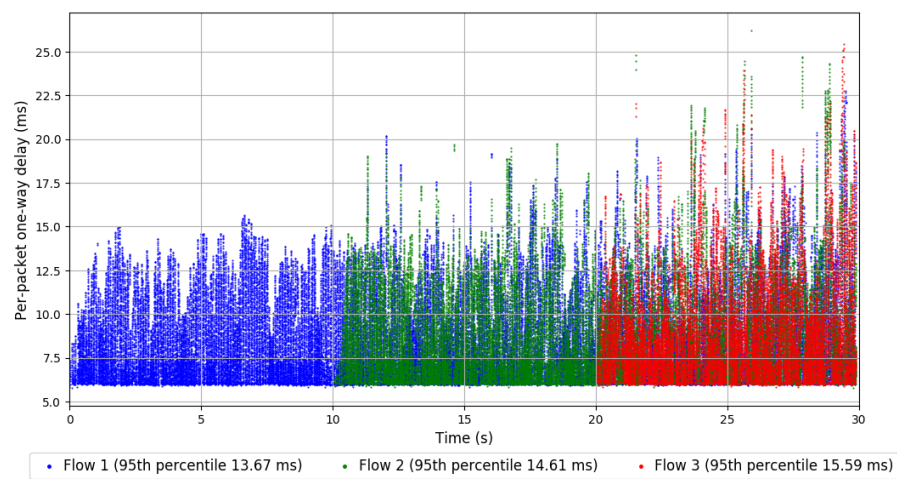
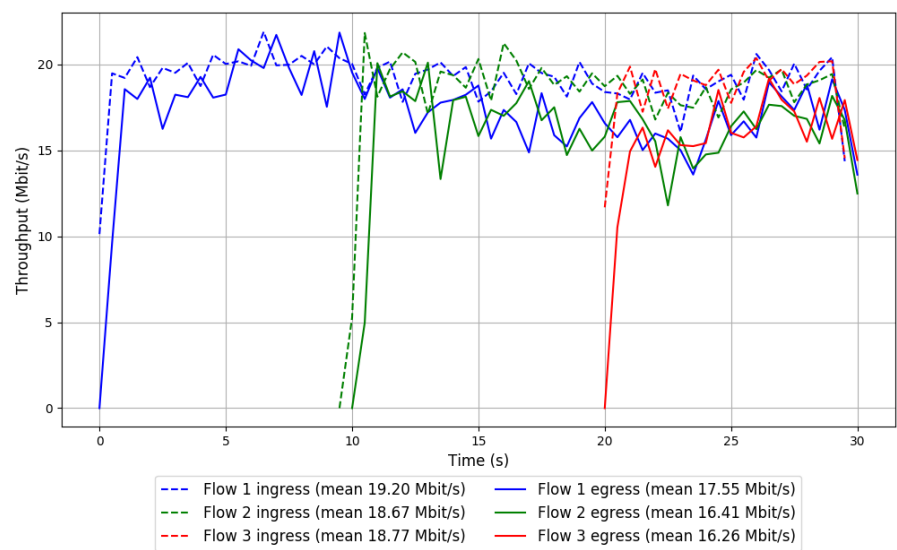
-- Flow 3:

Average throughput: 16.26 Mbit/s

95th percentile per-packet one-way delay: 15.591 ms

Loss rate: 13.53%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-25 14:23:57

End at: 2018-05-25 14:24:27

Local clock offset: -0.46 ms

Remote clock offset: 2.757 ms

Below is generated by plot.py at 2018-05-25 16:00:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 21.469 ms

Loss rate: 15.57%

-- Flow 1:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 20.528 ms

Loss rate: 15.56%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 21.947 ms

Loss rate: 15.38%

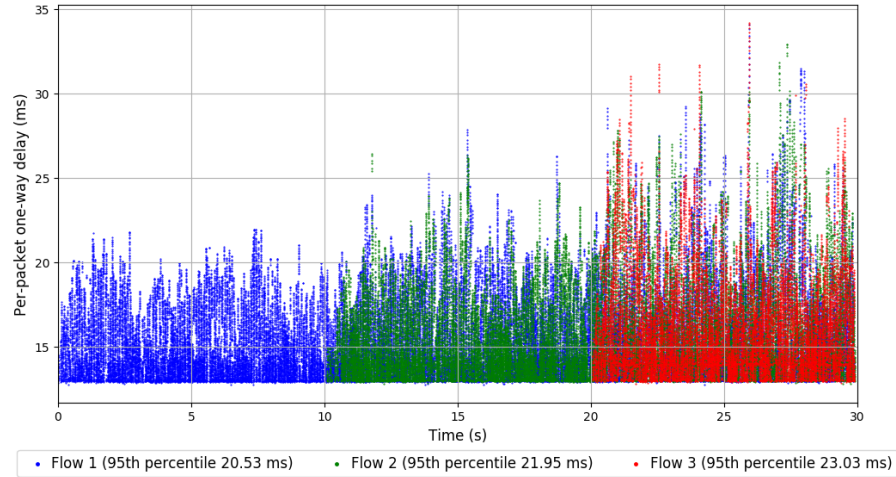
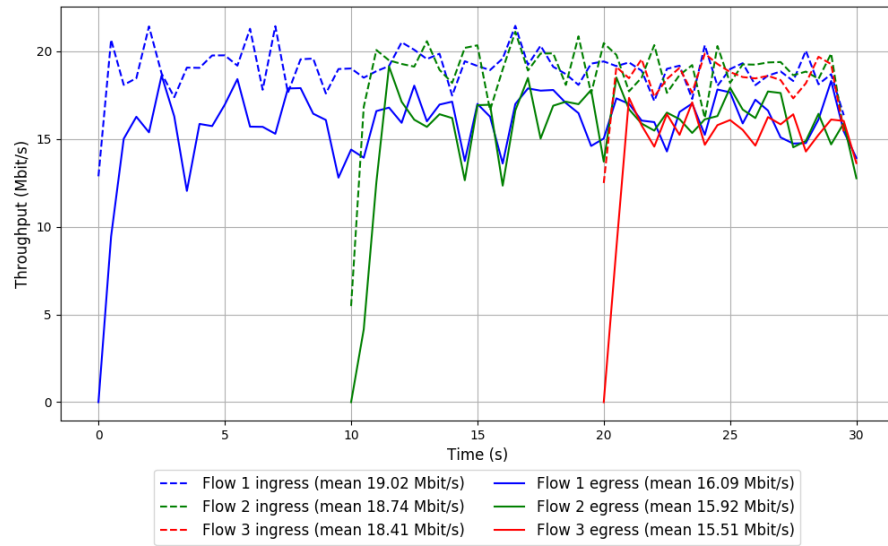
-- Flow 3:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 23.033 ms

Loss rate: 16.01%

Run 7: Report of Sprout — Data Link

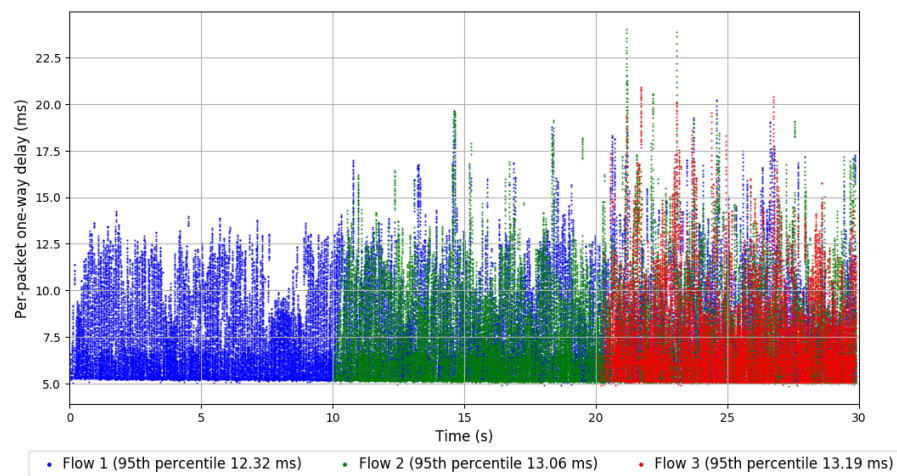
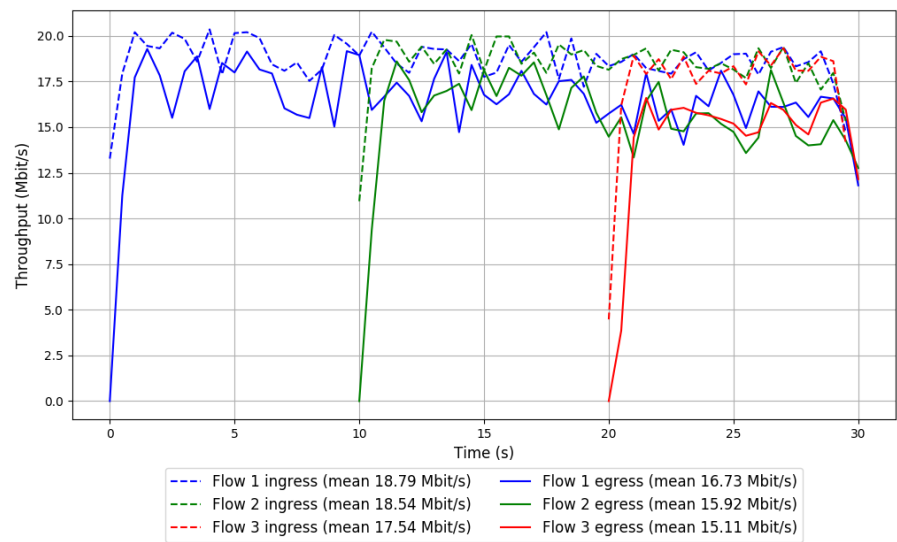


Run 8: Statistics of Sprout

Start at: 2018-05-25 14:47:11
End at: 2018-05-25 14:47:41
Local clock offset: -2.687 ms
Remote clock offset: 9.496 ms

```
# Below is generated by plot.py at 2018-05-25 16:00:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.26 Mbit/s
95th percentile per-packet one-way delay: 12.626 ms
Loss rate: 12.65%
-- Flow 1:
Average throughput: 16.73 Mbit/s
95th percentile per-packet one-way delay: 12.323 ms
Loss rate: 11.02%
-- Flow 2:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 13.062 ms
Loss rate: 14.25%
-- Flow 3:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 13.189 ms
Loss rate: 14.51%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-25 15:09:08

End at: 2018-05-25 15:09:38

Local clock offset: 1.57 ms

Remote clock offset: 3.302 ms

Below is generated by plot.py at 2018-05-25 16:00:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 21.424 ms

Loss rate: 9.47%

-- Flow 1:

Average throughput: 17.28 Mbit/s

95th percentile per-packet one-way delay: 20.866 ms

Loss rate: 8.72%

-- Flow 2:

Average throughput: 16.65 Mbit/s

95th percentile per-packet one-way delay: 21.816 ms

Loss rate: 10.79%

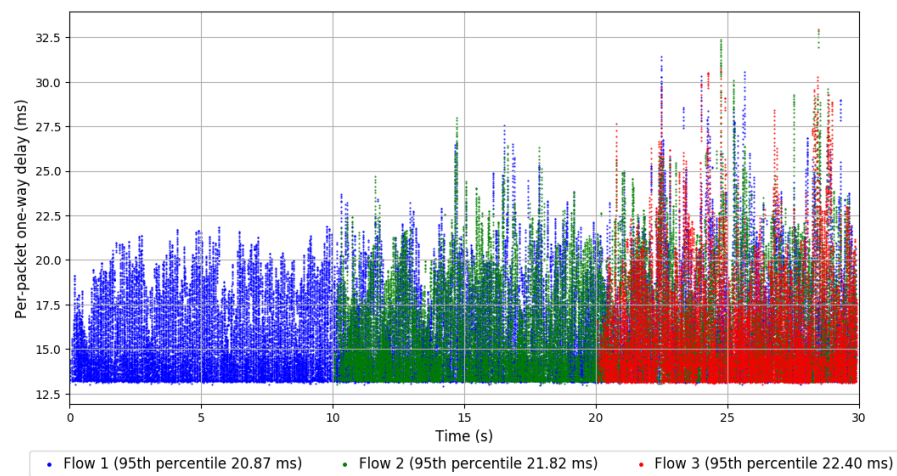
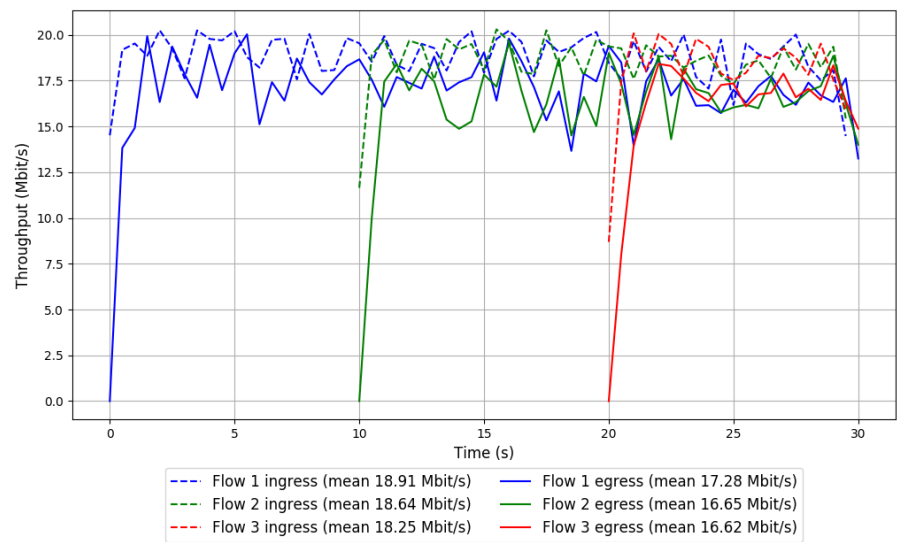
-- Flow 3:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 22.398 ms

Loss rate: 9.09%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-25 15:32:04

End at: 2018-05-25 15:32:34

Local clock offset: 0.902 ms

Remote clock offset: 1.231 ms

Below is generated by plot.py at 2018-05-25 16:01:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 21.362 ms

Loss rate: 10.68%

-- Flow 1:

Average throughput: 17.36 Mbit/s

95th percentile per-packet one-way delay: 21.124 ms

Loss rate: 10.73%

-- Flow 2:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 21.125 ms

Loss rate: 10.25%

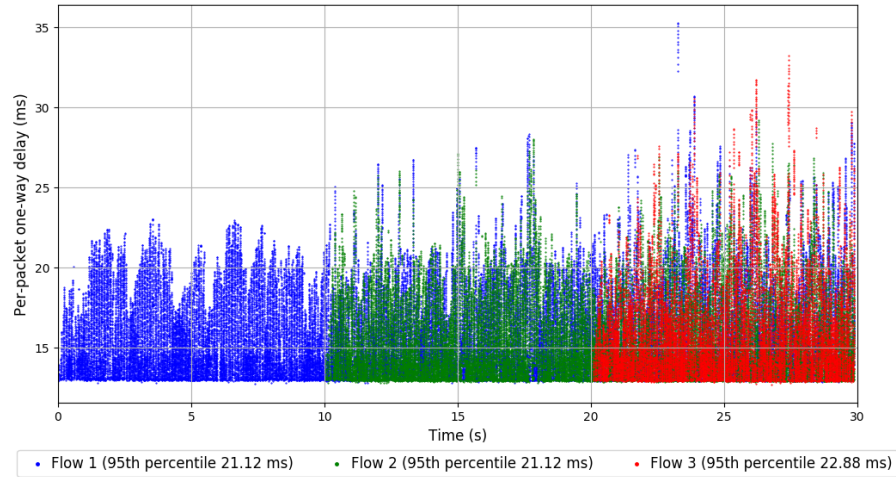
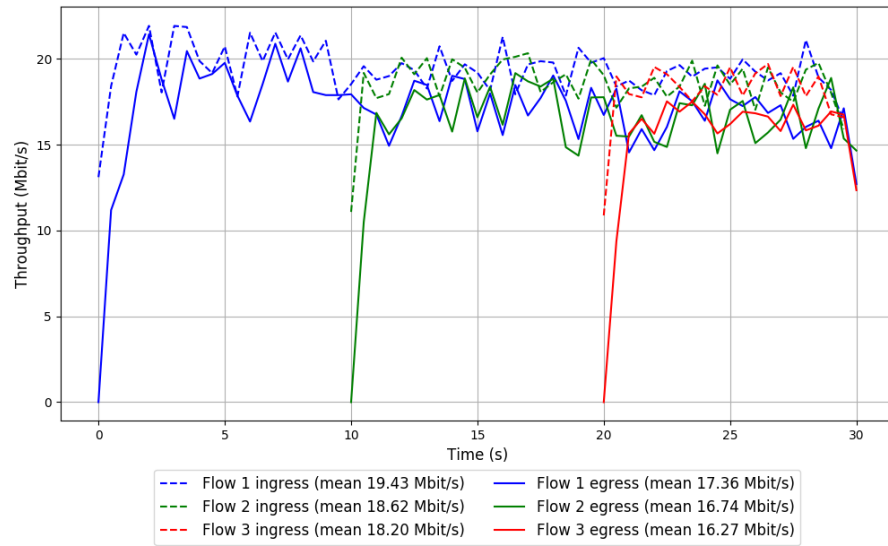
-- Flow 3:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 22.875 ms

Loss rate: 11.37%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 12:09:13

End at: 2018-05-25 12:09:43

Local clock offset: -0.304 ms

Remote clock offset: 2.991 ms

Below is generated by plot.py at 2018-05-25 16:02:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 33.748 ms

Loss rate: 16.98%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 33.585 ms

Loss rate: 16.74%

-- Flow 2:

Average throughput: 36.84 Mbit/s

95th percentile per-packet one-way delay: 33.220 ms

Loss rate: 17.47%

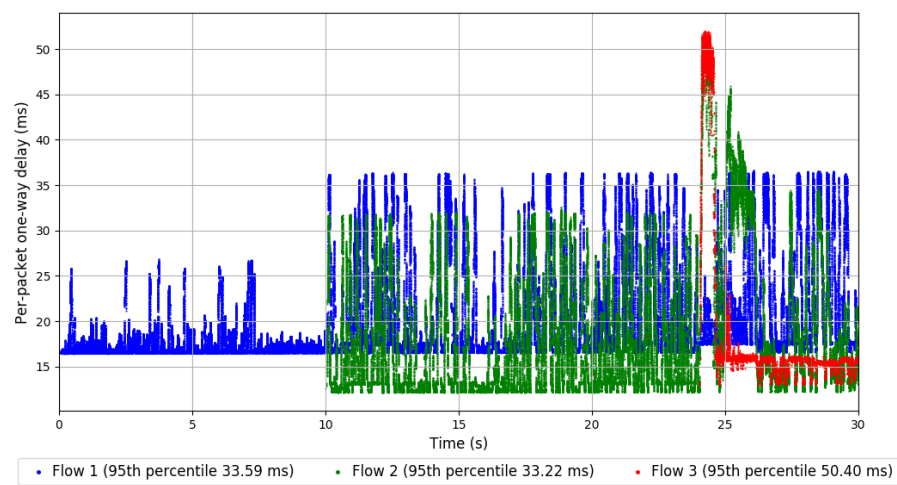
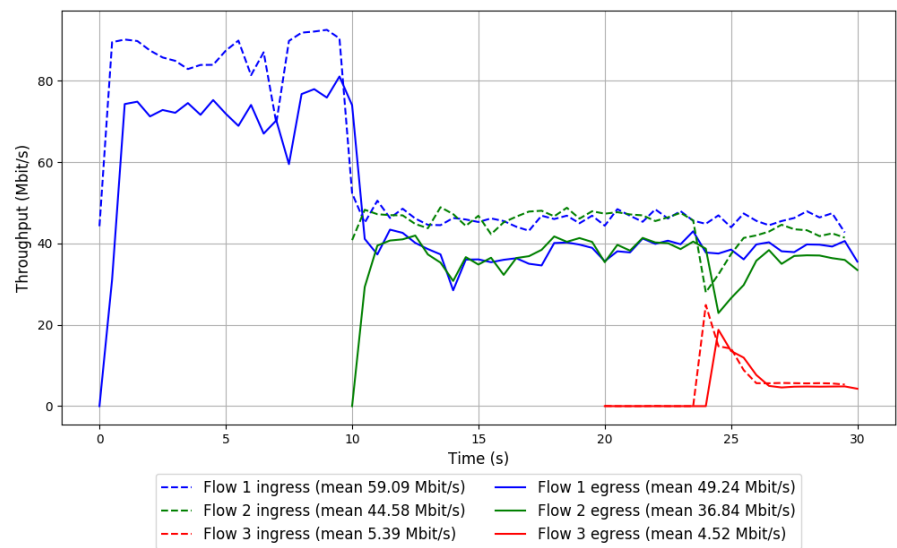
-- Flow 3:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 50.401 ms

Loss rate: 16.41%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 12:31:48

End at: 2018-05-25 12:32:18

Local clock offset: -2.079 ms

Remote clock offset: 4.941 ms

Below is generated by plot.py at 2018-05-25 16:02:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.51 Mbit/s

95th percentile per-packet one-way delay: 32.622 ms

Loss rate: 16.27%

-- Flow 1:

Average throughput: 45.58 Mbit/s

95th percentile per-packet one-way delay: 30.003 ms

Loss rate: 16.62%

-- Flow 2:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 30.445 ms

Loss rate: 15.93%

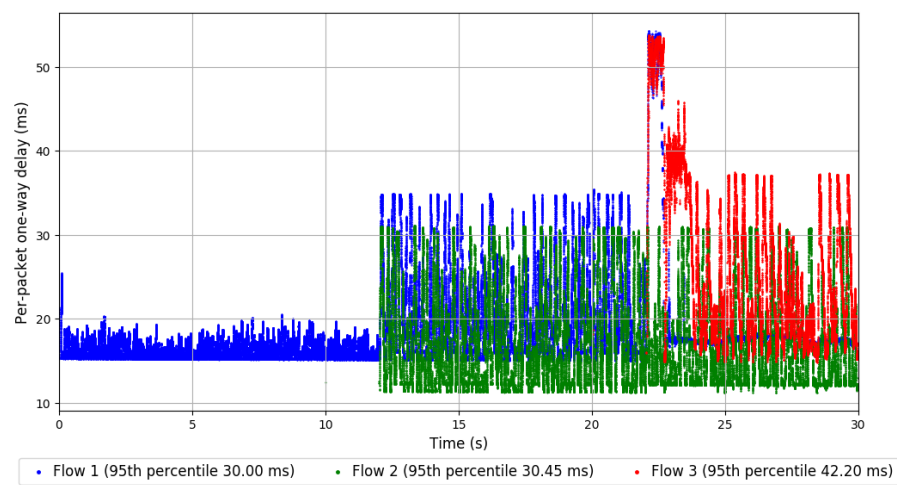
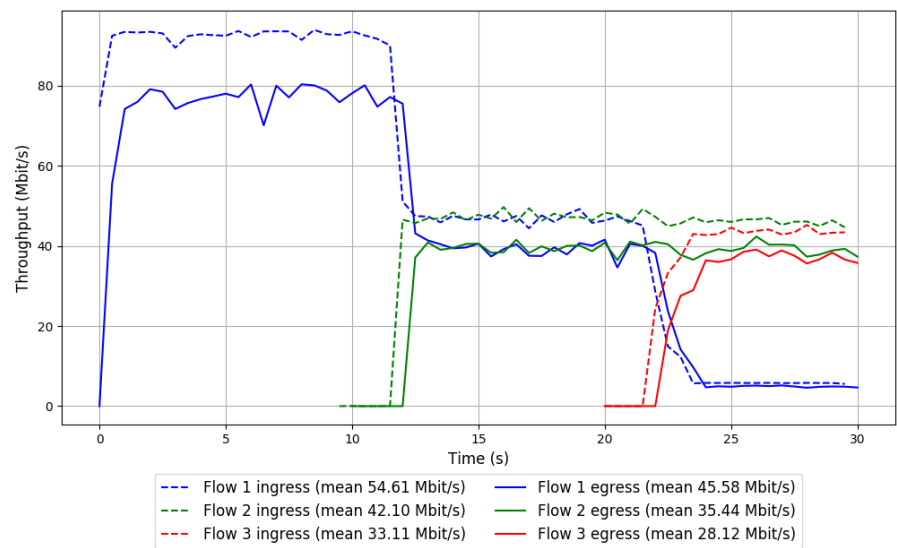
-- Flow 3:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 42.204 ms

Loss rate: 15.34%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 12:54:34

End at: 2018-05-25 12:55:04

Local clock offset: -4.02 ms

Remote clock offset: 2.961 ms

Below is generated by plot.py at 2018-05-25 16:02:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 35.564 ms

Loss rate: 17.29%

-- Flow 1:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 35.456 ms

Loss rate: 17.25%

-- Flow 2:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 35.299 ms

Loss rate: 17.28%

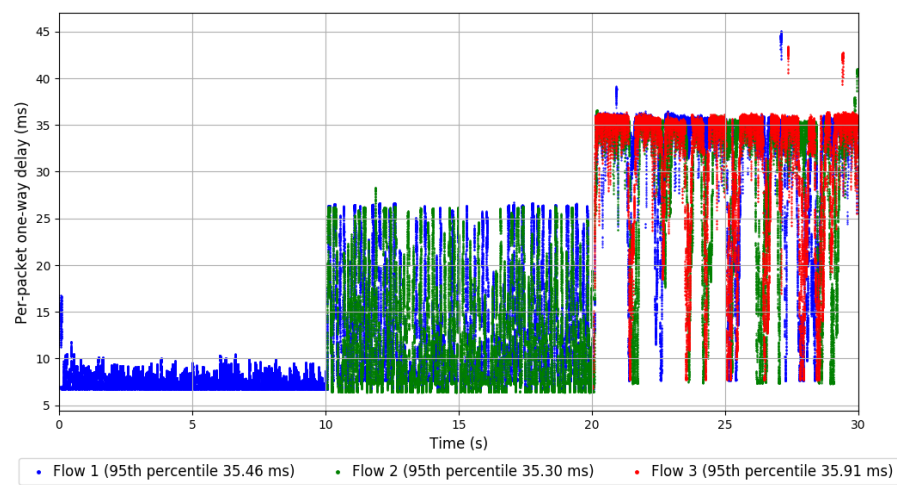
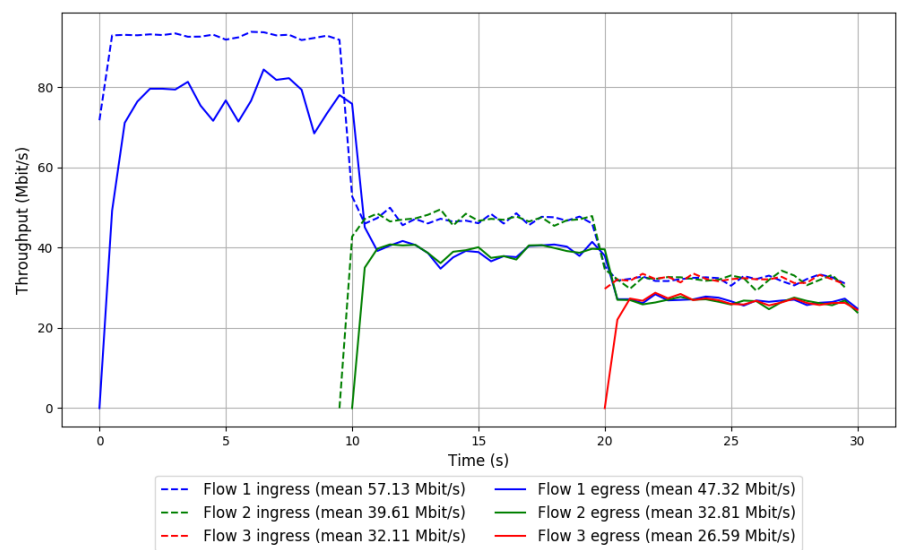
-- Flow 3:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 35.913 ms

Loss rate: 17.51%

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

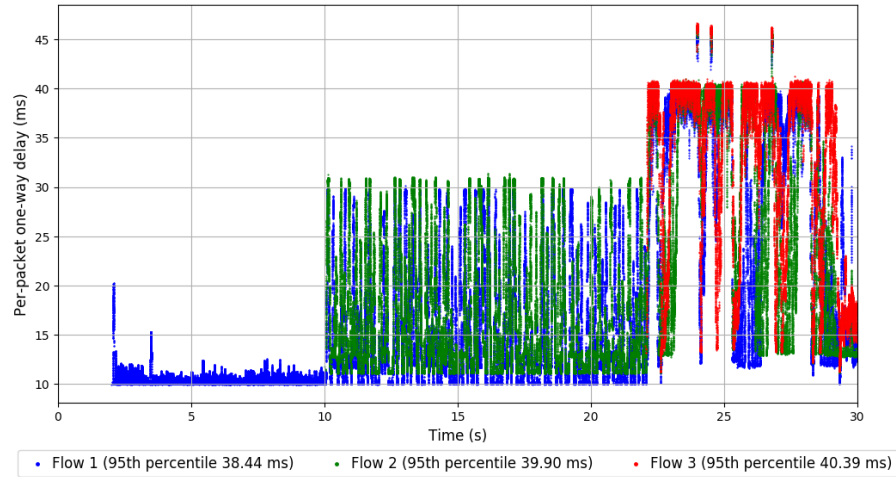
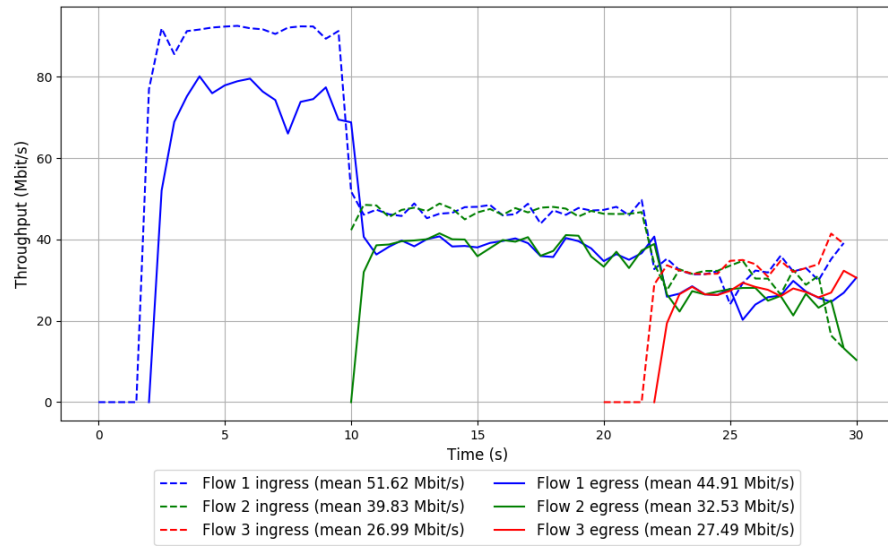


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 13:16:31
End at: 2018-05-25 13:17:02
Local clock offset: -2.619 ms
Remote clock offset: -0.914 ms

Below is generated by plot.py at 2018-05-25 16:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.93 Mbit/s
95th percentile per-packet one-way delay: 39.769 ms
Loss rate: 18.75%
-- Flow 1:
Average throughput: 44.91 Mbit/s
95th percentile per-packet one-way delay: 38.444 ms
Loss rate: 18.89%
-- Flow 2:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 39.904 ms
Loss rate: 18.42%
-- Flow 3:
Average throughput: 27.49 Mbit/s
95th percentile per-packet one-way delay: 40.386 ms
Loss rate: 18.89%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 13:38:59

End at: 2018-05-25 13:39:29

Local clock offset: 1.201 ms

Remote clock offset: 4.642 ms

Below is generated by plot.py at 2018-05-25 16:02:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 28.673 ms

Loss rate: 19.24%

-- Flow 1:

Average throughput: 49.37 Mbit/s

95th percentile per-packet one-way delay: 25.481 ms

Loss rate: 19.69%

-- Flow 2:

Average throughput: 25.54 Mbit/s

95th percentile per-packet one-way delay: 29.406 ms

Loss rate: 18.12%

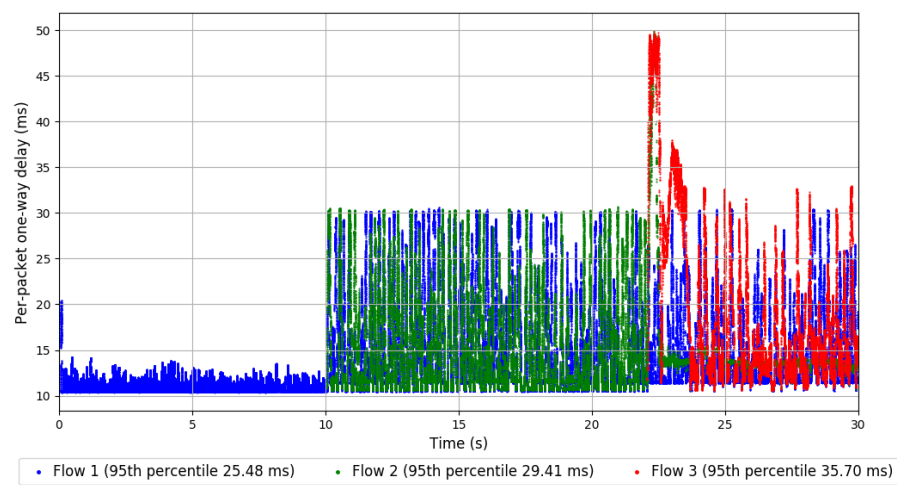
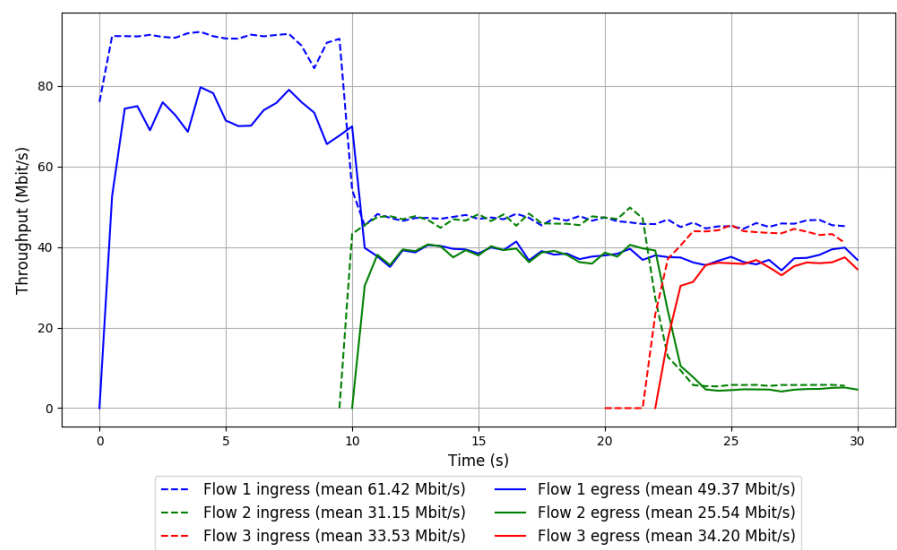
-- Flow 3:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 35.700 ms

Loss rate: 18.79%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 14:02:14

End at: 2018-05-25 14:02:44

Local clock offset: -2.061 ms

Remote clock offset: 7.138 ms

Below is generated by plot.py at 2018-05-25 16:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.64 Mbit/s

95th percentile per-packet one-way delay: 23.621 ms

Loss rate: 16.90%

-- Flow 1:

Average throughput: 40.23 Mbit/s

95th percentile per-packet one-way delay: 21.011 ms

Loss rate: 17.14%

-- Flow 2:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 23.595 ms

Loss rate: 16.40%

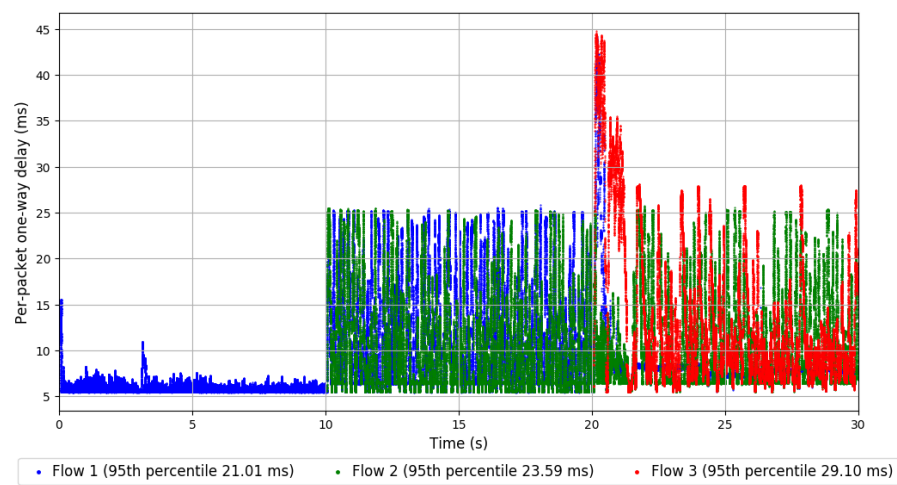
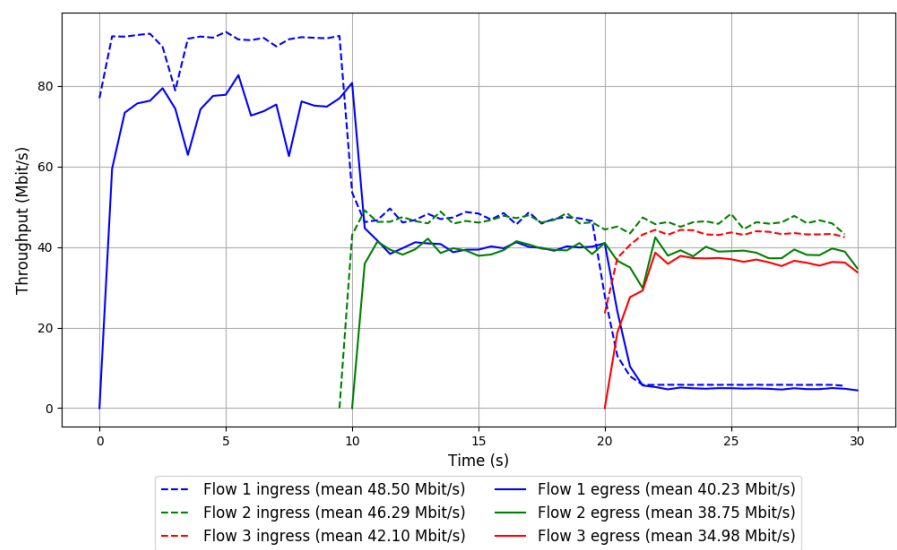
-- Flow 3:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 29.103 ms

Loss rate: 17.14%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 14:25:34

End at: 2018-05-25 14:26:04

Local clock offset: -4.59 ms

Remote clock offset: 3.531 ms

Below is generated by plot.py at 2018-05-25 16:03:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 36.865 ms

Loss rate: 18.55%

-- Flow 1:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 36.567 ms

Loss rate: 19.39%

-- Flow 2:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 36.927 ms

Loss rate: 17.53%

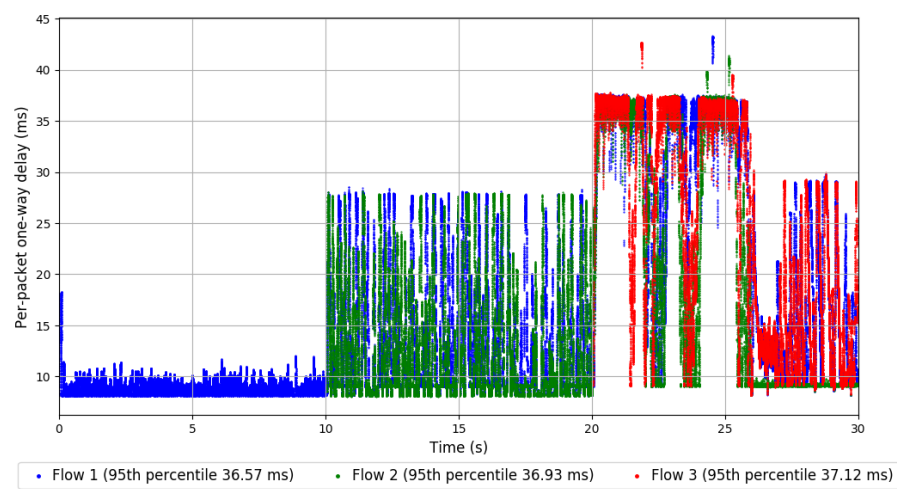
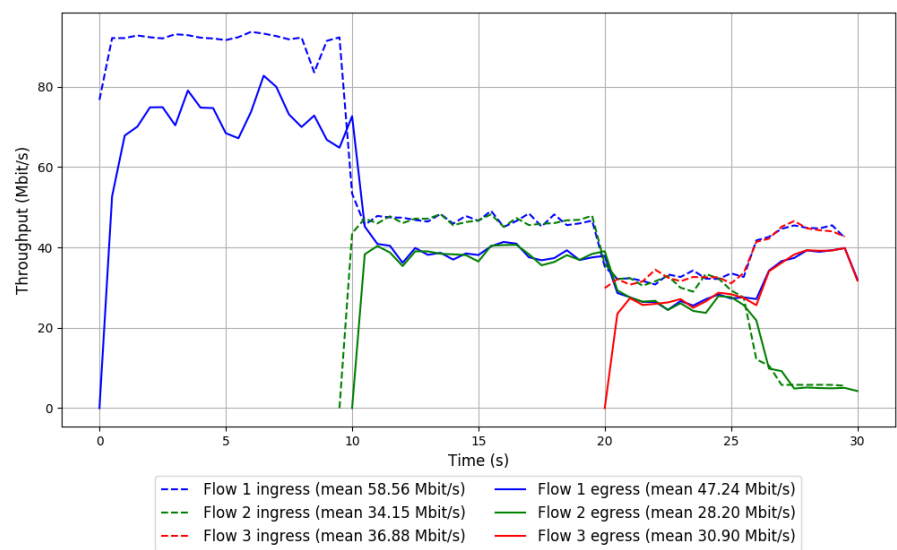
-- Flow 3:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 37.122 ms

Loss rate: 16.42%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 14:48:40

End at: 2018-05-25 14:49:10

Local clock offset: -5.205 ms

Remote clock offset: 5.174 ms

Below is generated by plot.py at 2018-05-25 16:03:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.02 Mbit/s

95th percentile per-packet one-way delay: 35.004 ms

Loss rate: 15.00%

-- Flow 1:

Average throughput: 49.37 Mbit/s

95th percentile per-packet one-way delay: 34.750 ms

Loss rate: 15.00%

-- Flow 2:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 35.079 ms

Loss rate: 14.54%

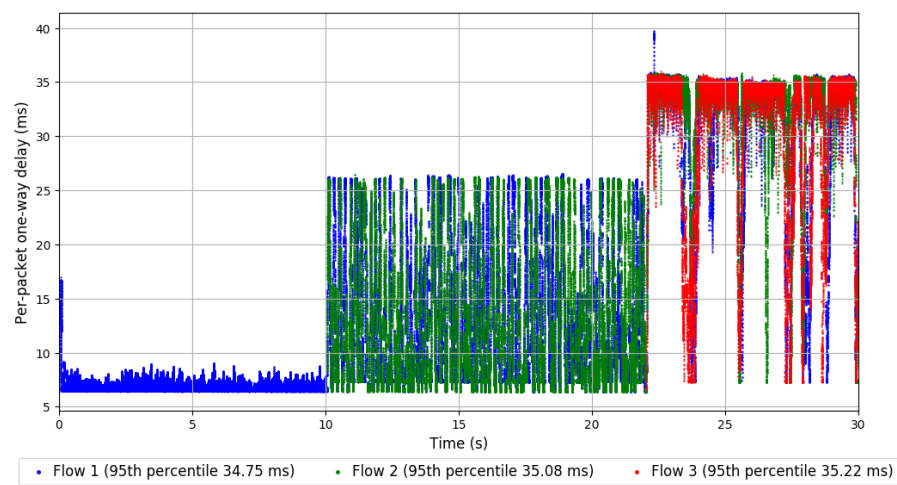
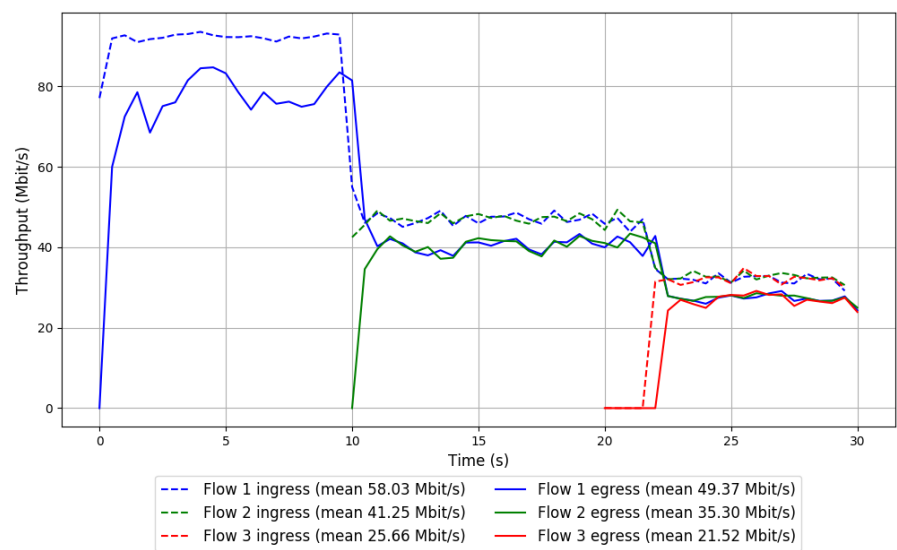
-- Flow 3:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 35.221 ms

Loss rate: 16.42%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 15:10:37

End at: 2018-05-25 15:11:07

Local clock offset: -6.064 ms

Remote clock offset: 5.821 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 31.812 ms

Loss rate: 16.93%

-- Flow 1:

Average throughput: 47.73 Mbit/s

95th percentile per-packet one-way delay: 31.489 ms

Loss rate: 16.68%

-- Flow 2:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: 31.927 ms

Loss rate: 16.98%

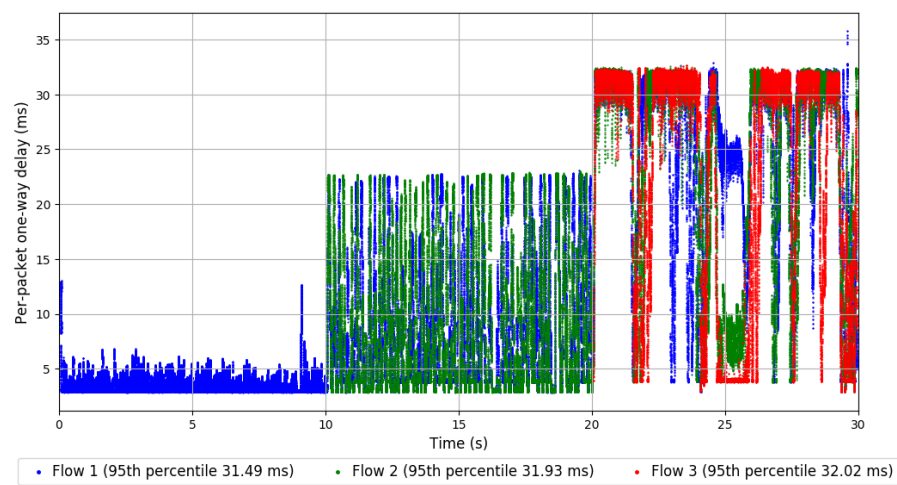
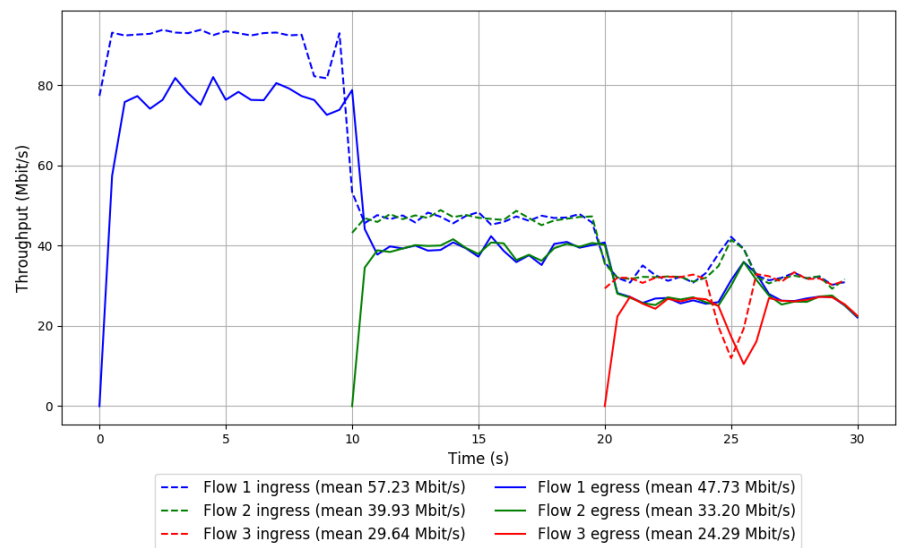
-- Flow 3:

Average throughput: 24.29 Mbit/s

95th percentile per-packet one-way delay: 32.017 ms

Loss rate: 18.26%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 15:33:29

End at: 2018-05-25 15:33:59

Local clock offset: -2.838 ms

Remote clock offset: 4.674 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.96 Mbit/s

95th percentile per-packet one-way delay: 26.189 ms

Loss rate: 16.79%

-- Flow 1:

Average throughput: 52.81 Mbit/s

95th percentile per-packet one-way delay: 24.844 ms

Loss rate: 16.77%

-- Flow 2:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 26.505 ms

Loss rate: 16.44%

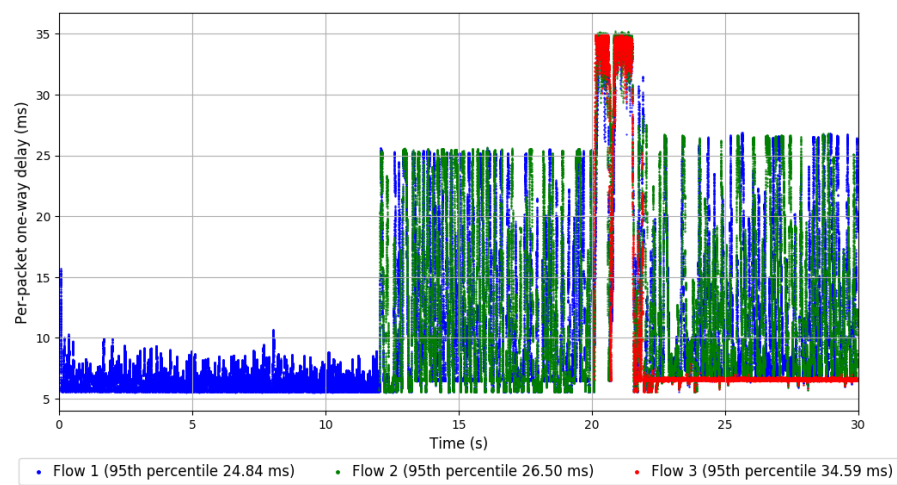
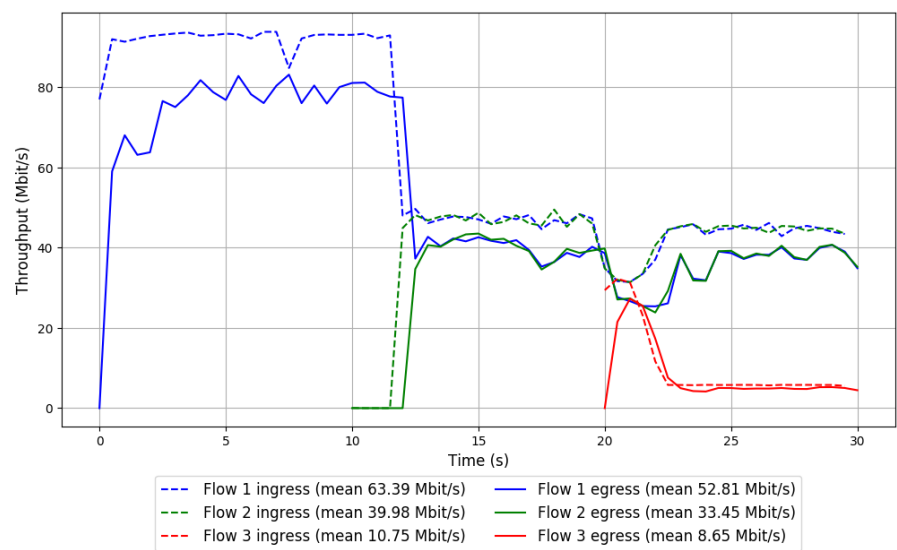
-- Flow 3:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 34.590 ms

Loss rate: 19.79%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 12:18:01

End at: 2018-05-25 12:18:31

Local clock offset: -0.56 ms

Remote clock offset: 3.232 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 15.040 ms

Loss rate: 8.73%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 15.071 ms

Loss rate: 7.88%

-- Flow 2:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 14.670 ms

Loss rate: 8.71%

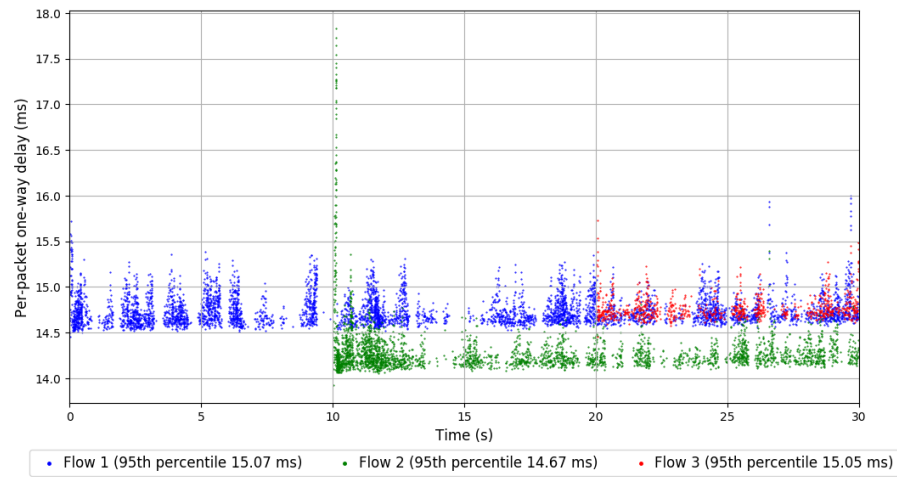
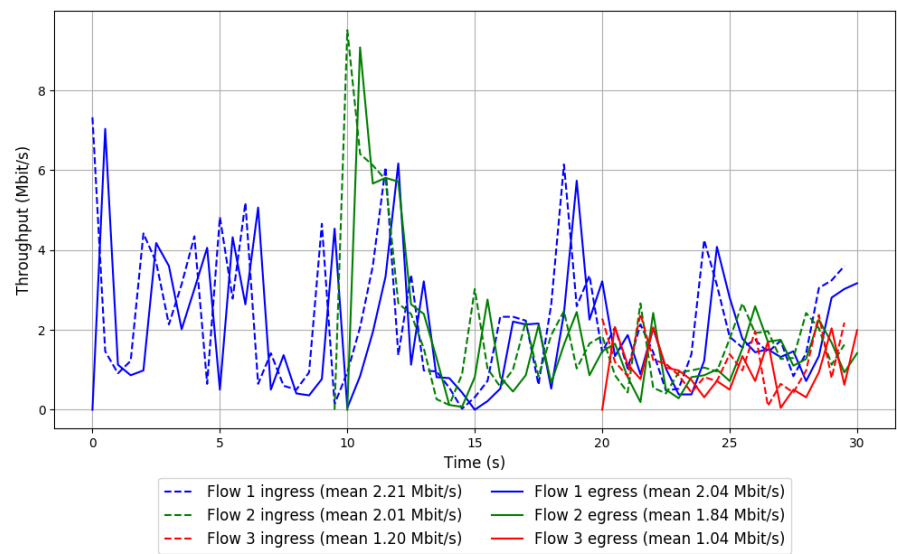
-- Flow 3:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 15.050 ms

Loss rate: 13.61%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 12:40:26

End at: 2018-05-25 12:40:56

Local clock offset: -2.238 ms

Remote clock offset: 6.574 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 6.964 ms

Loss rate: 11.64%

-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 6.788 ms

Loss rate: 11.58%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 5.877 ms

Loss rate: 11.84%

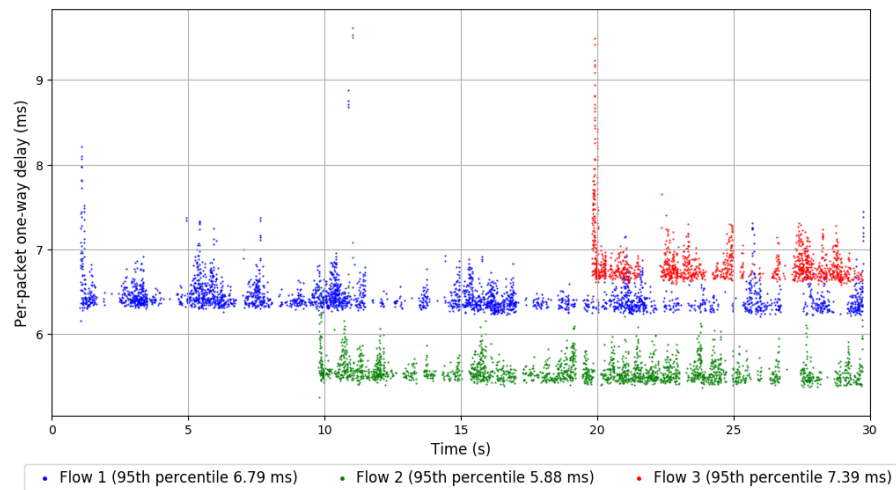
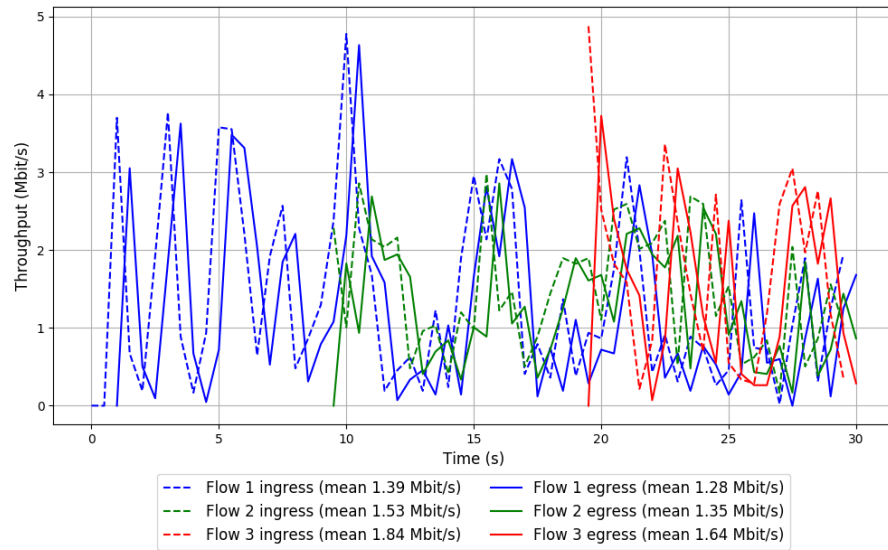
-- Flow 3:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 7.394 ms

Loss rate: 11.45%

Run 2: Report of TCP Vegas — Data Link

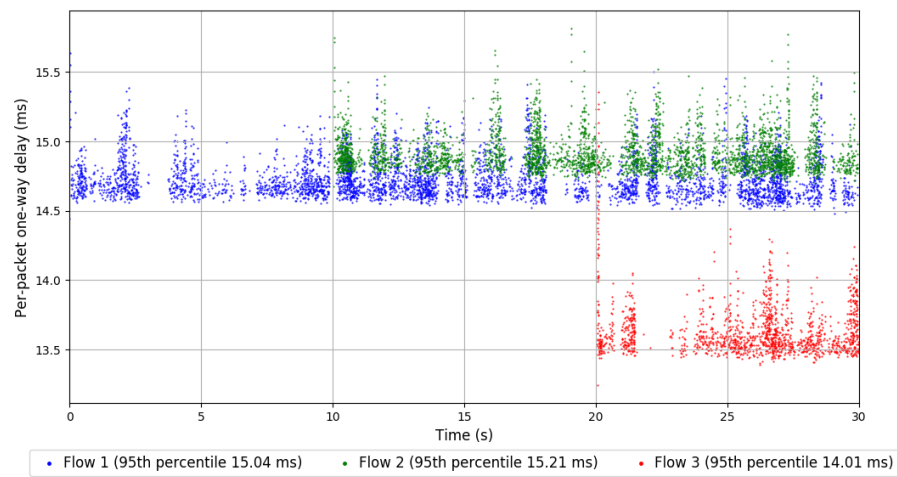
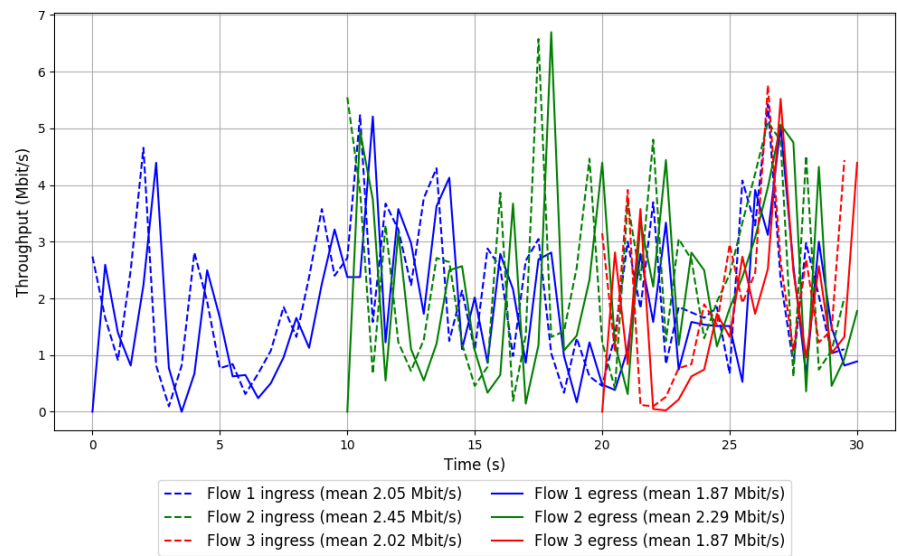


Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 13:02:51
End at: 2018-05-25 13:03:21
Local clock offset: -0.004 ms
Remote clock offset: -2.363 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 15.117 ms
Loss rate: 7.86%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 15.044 ms
Loss rate: 9.01%
-- Flow 2:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 15.215 ms
Loss rate: 6.51%
-- Flow 3:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 14.010 ms
Loss rate: 7.58%

Run 3: Report of TCP Vegas — Data Link

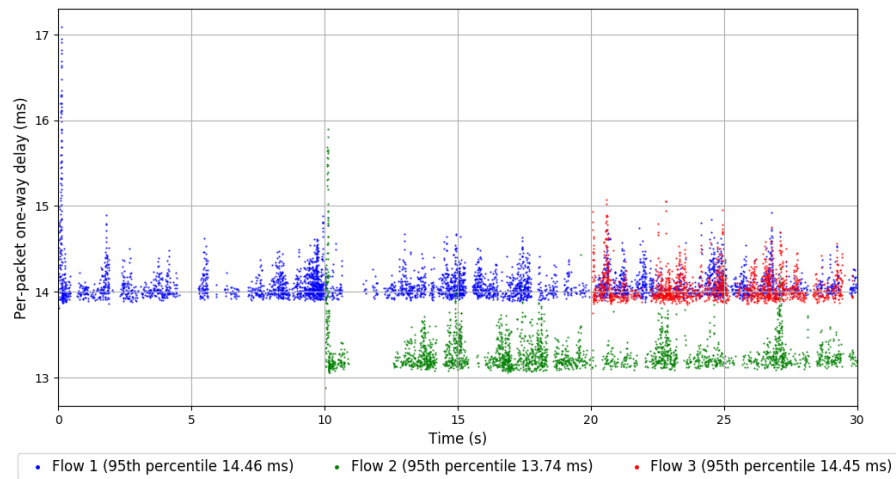
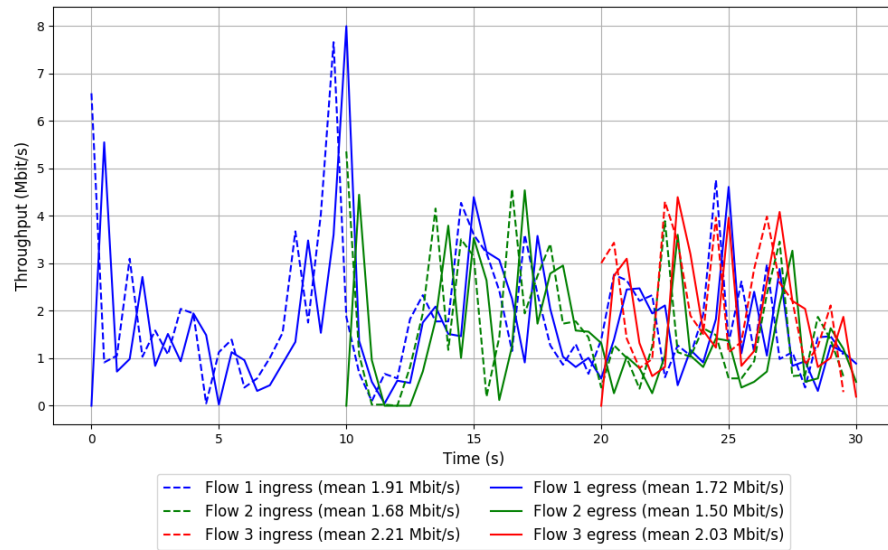


Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 13:25:35
End at: 2018-05-25 13:26:05
Local clock offset: 0.745 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 14.394 ms
Loss rate: 9.73%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 14.459 ms
Loss rate: 9.72%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 13.743 ms
Loss rate: 10.65%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 14.447 ms
Loss rate: 8.35%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 13:47:58

End at: 2018-05-25 13:48:28

Local clock offset: -0.087 ms

Remote clock offset: 1.523 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 13.900 ms

Loss rate: 10.97%

-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 13.048 ms

Loss rate: 9.57%

-- Flow 2:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 17.536 ms

Loss rate: 11.32%

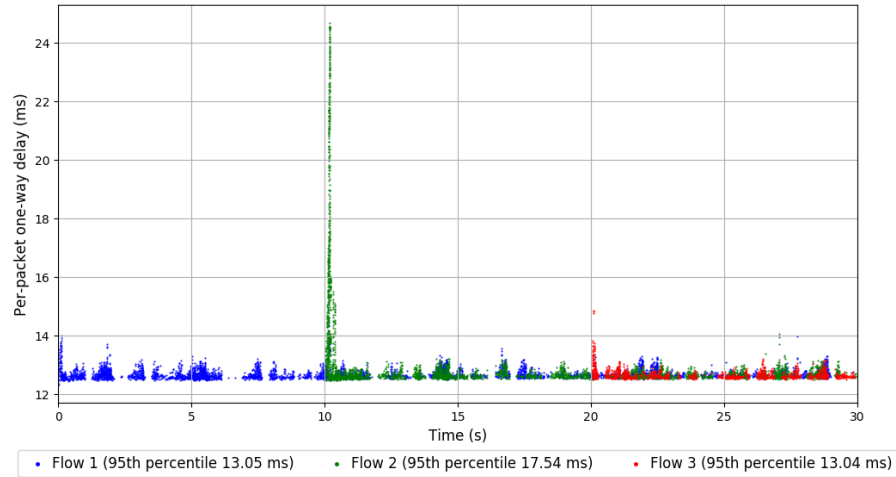
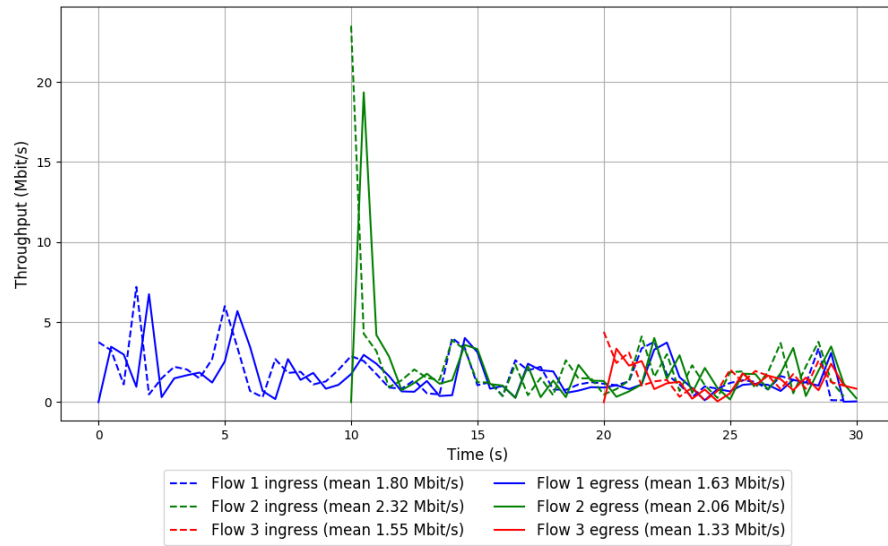
-- Flow 3:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 13.039 ms

Loss rate: 14.77%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 14:11:08

End at: 2018-05-25 14:11:38

Local clock offset: -2.204 ms

Remote clock offset: 2.126 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 11.058 ms

Loss rate: 9.02%

-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 11.061 ms

Loss rate: 9.58%

-- Flow 2:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 11.053 ms

Loss rate: 7.50%

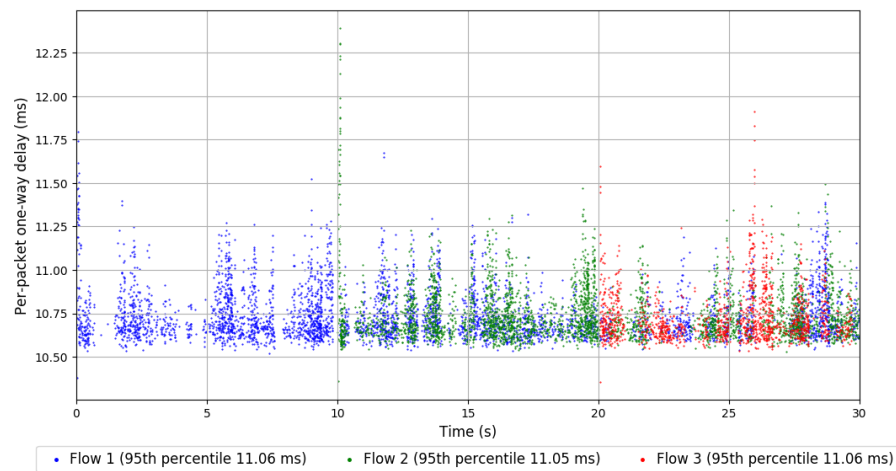
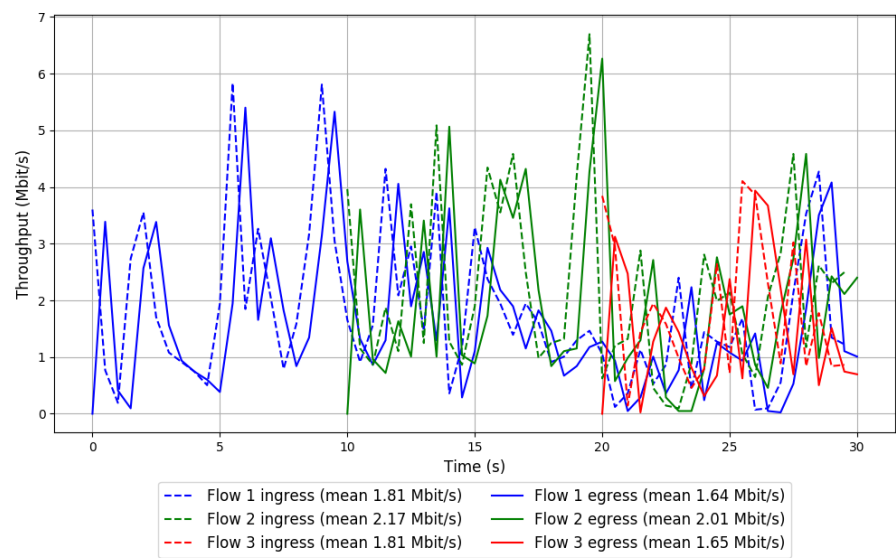
-- Flow 3:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 11.065 ms

Loss rate: 11.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 14:35:00

End at: 2018-05-25 14:35:30

Local clock offset: -2.241 ms

Remote clock offset: 4.04 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 11.141 ms

Loss rate: 9.94%

-- Flow 1:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 11.123 ms

Loss rate: 10.32%

-- Flow 2:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 11.203 ms

Loss rate: 9.30%

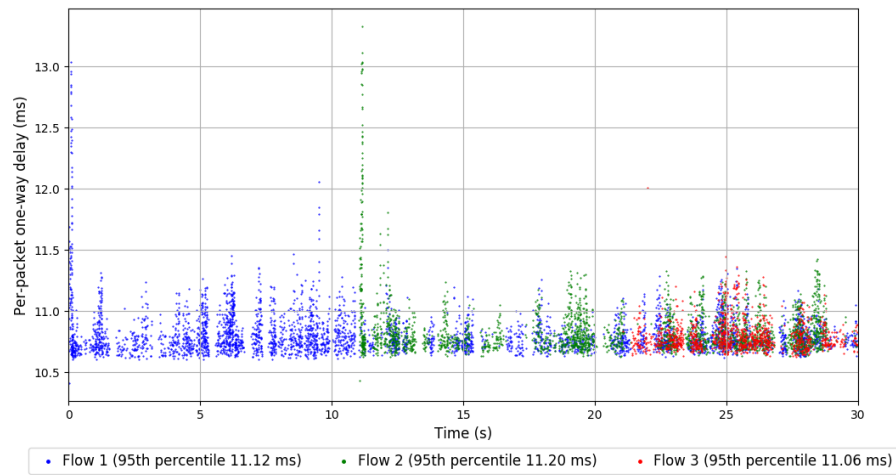
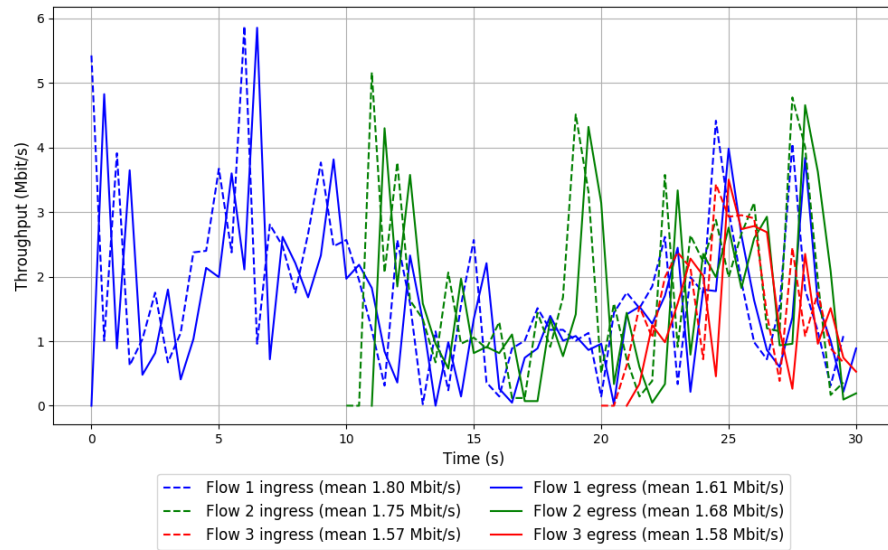
-- Flow 3:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 11.060 ms

Loss rate: 10.05%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 14:56:55

End at: 2018-05-25 14:57:25

Local clock offset: -4.693 ms

Remote clock offset: 3.619 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 7.694 ms

Loss rate: 5.28%

-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 7.609 ms

Loss rate: 5.12%

-- Flow 2:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 8.053 ms

Loss rate: 5.10%

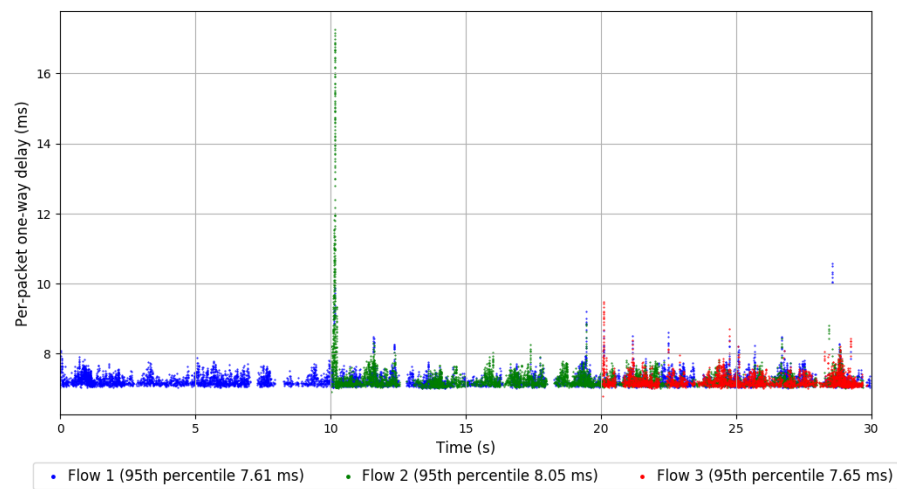
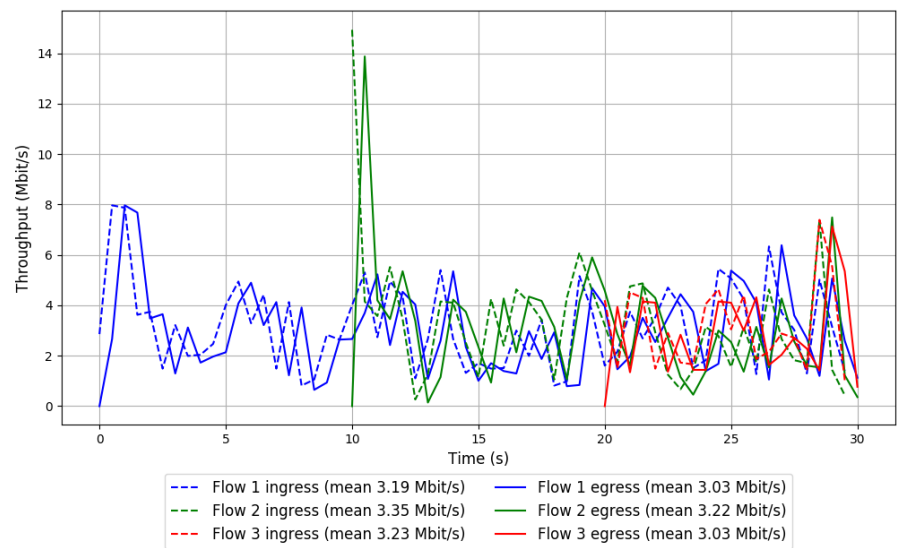
-- Flow 3:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 7.652 ms

Loss rate: 6.17%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 15:19:58

End at: 2018-05-25 15:20:28

Local clock offset: -5.68 ms

Remote clock offset: 2.205 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 7.415 ms

Loss rate: 8.90%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 7.428 ms

Loss rate: 8.14%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 7.360 ms

Loss rate: 9.34%

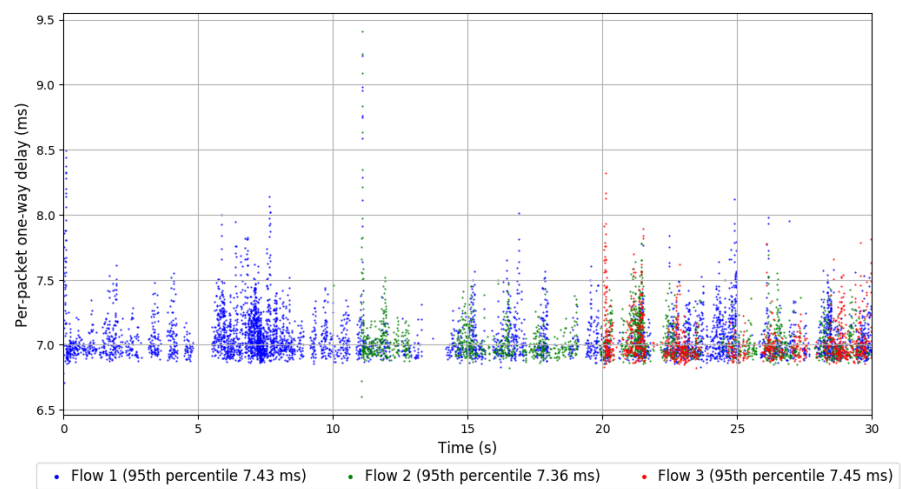
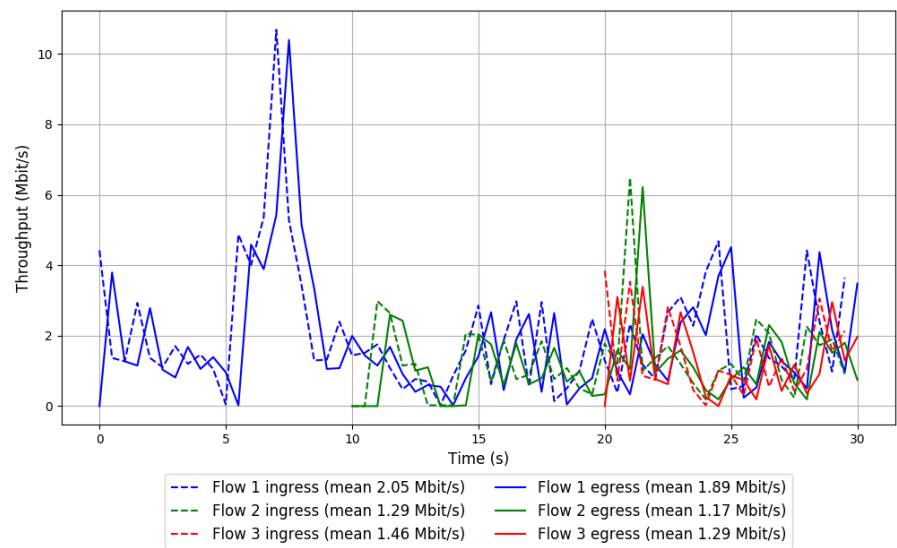
-- Flow 3:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 7.450 ms

Loss rate: 11.35%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 15:41:38

End at: 2018-05-25 15:42:08

Local clock offset: -1.076 ms

Remote clock offset: 0.899 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 11.134 ms

Loss rate: 6.66%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 11.100 ms

Loss rate: 7.20%

-- Flow 2:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 11.134 ms

Loss rate: 6.12%

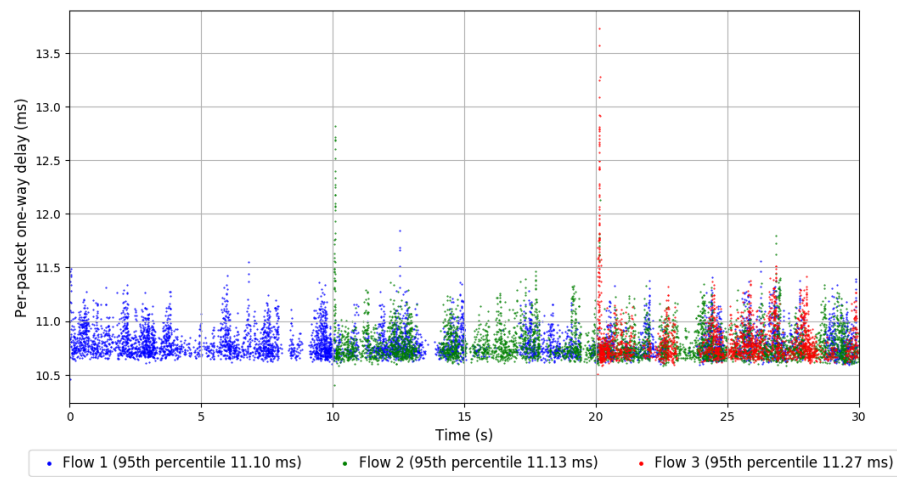
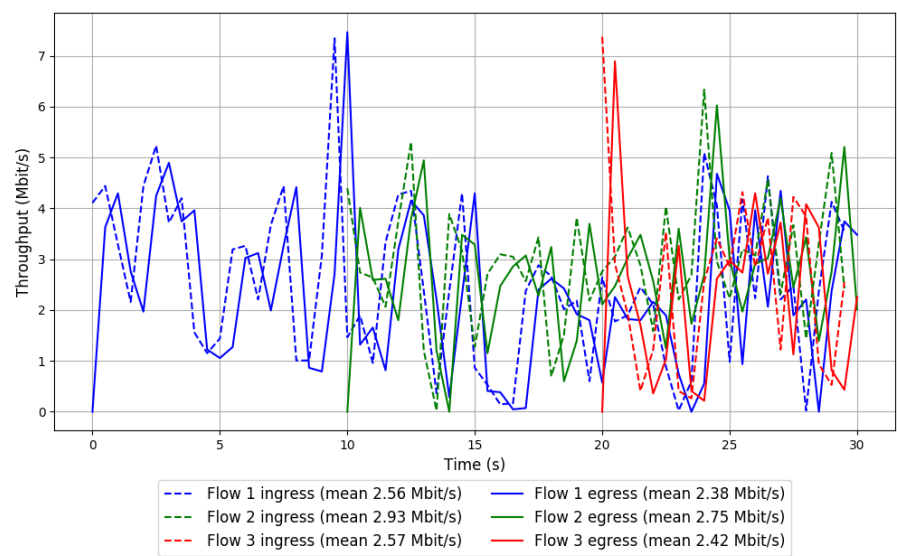
-- Flow 3:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 11.269 ms

Loss rate: 6.29%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 12:20:15

End at: 2018-05-25 12:20:45

Local clock offset: 0.656 ms

Remote clock offset: 5.602 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 14.133 ms

Loss rate: 3.33%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 14.619 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.383 ms

Loss rate: 10.00%

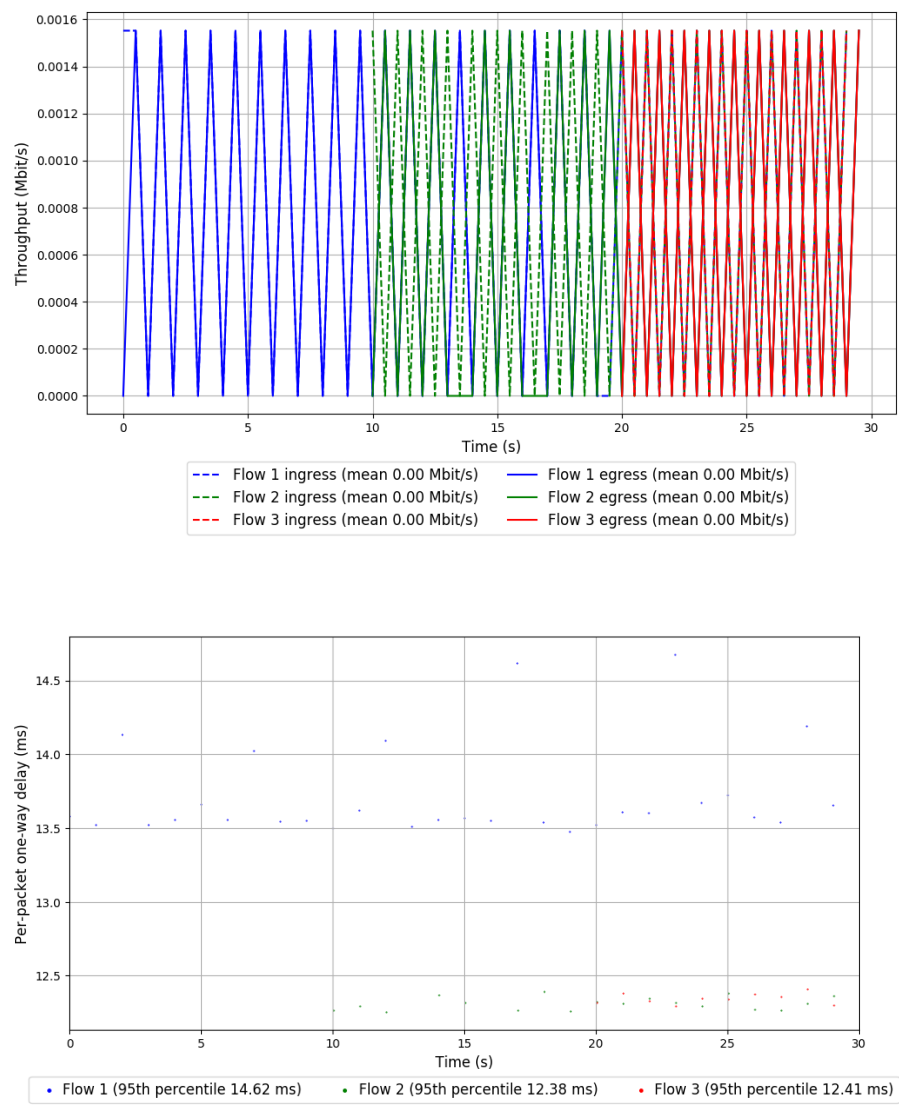
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.408 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

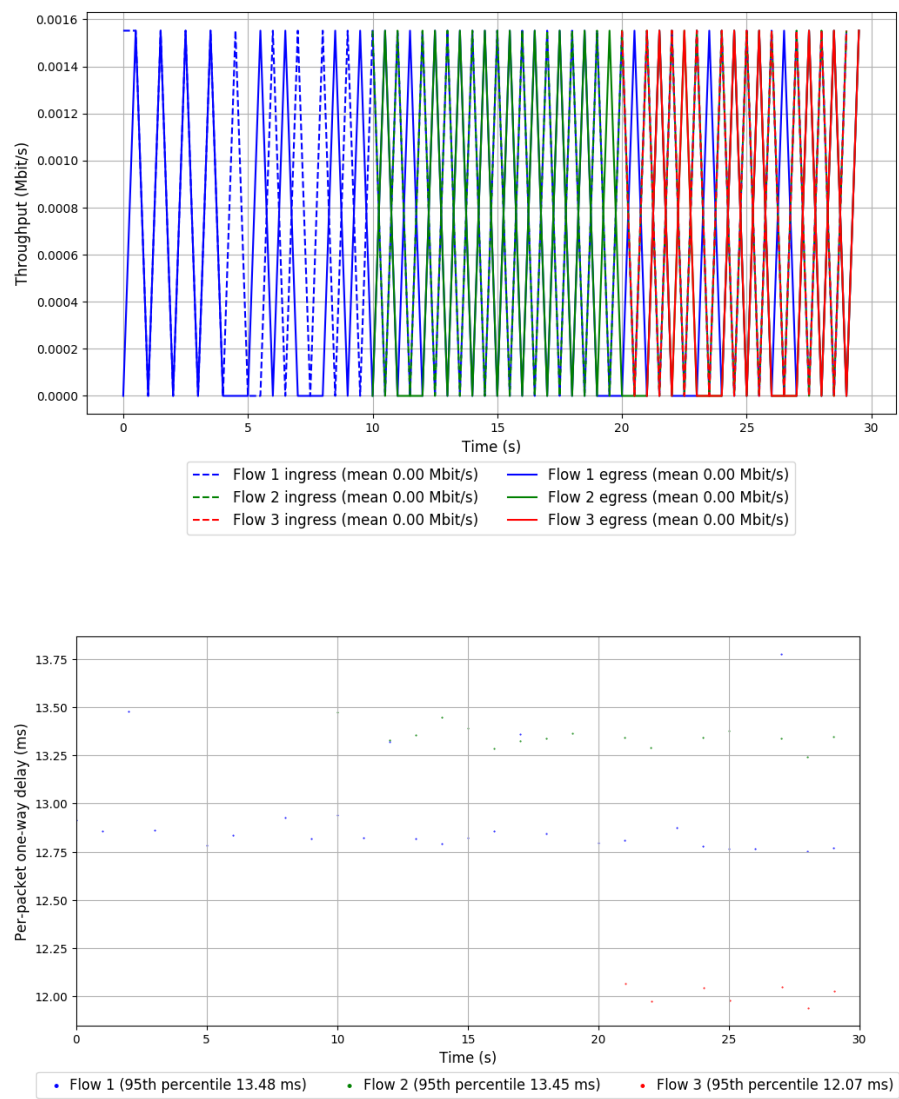


Run 2: Statistics of Verus

Start at: 2018-05-25 12:42:48
End at: 2018-05-25 12:43:18
Local clock offset: -2.724 ms
Remote clock offset: -1.167 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.473 ms
Loss rate: 18.33%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.479 ms
Loss rate: 13.33%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.446 ms
Loss rate: 20.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.066 ms
Loss rate: 30.00%

Run 2: Report of Verus — Data Link

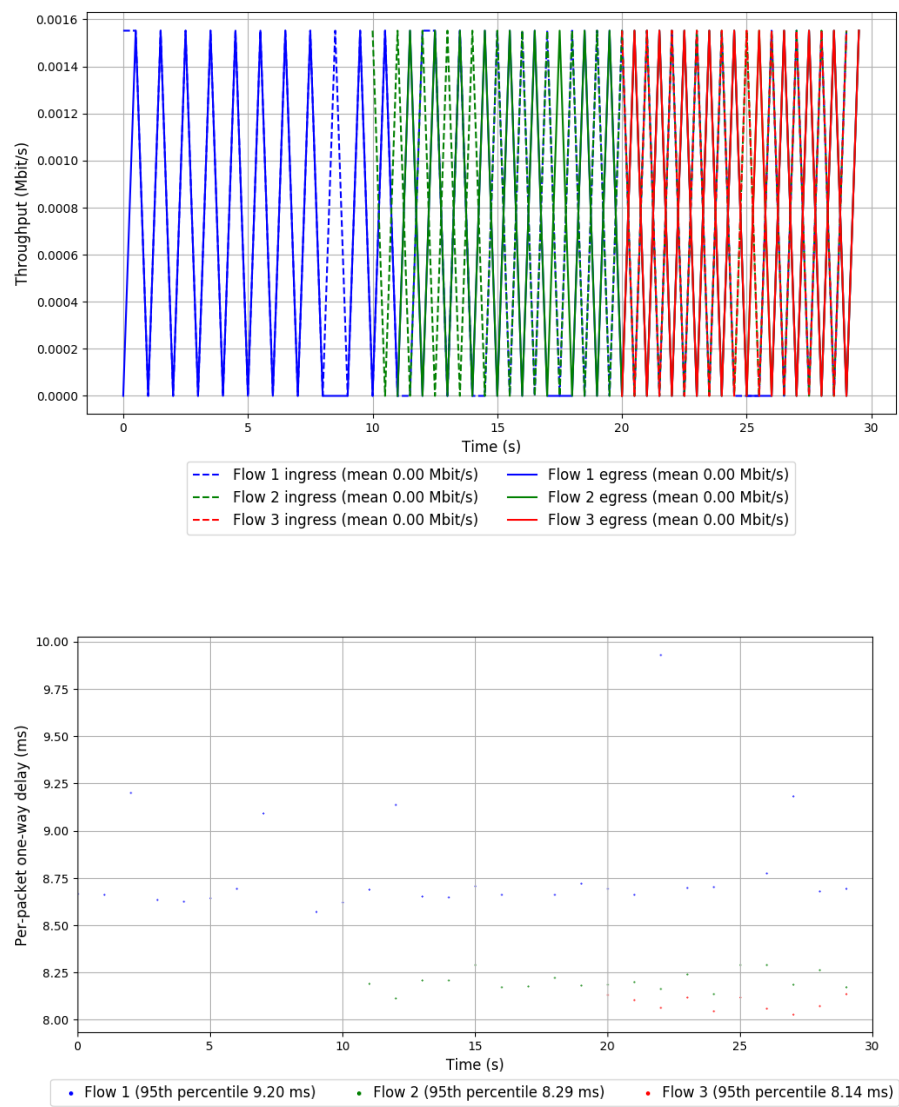


Run 3: Statistics of Verus

Start at: 2018-05-25 13:05:10
End at: 2018-05-25 13:05:40
Local clock offset: -0.453 ms
Remote clock offset: 2.991 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 9.139 ms
Loss rate: 5.08%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 9.203 ms
Loss rate: 6.90%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8.290 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8.138 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-25 13:27:52

End at: 2018-05-25 13:28:22

Local clock offset: -2.79 ms

Remote clock offset: 4.478 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 6.463 ms

Loss rate: 8.33%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 6.681 ms

Loss rate: 6.67%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 4.878 ms

Loss rate: 5.00%

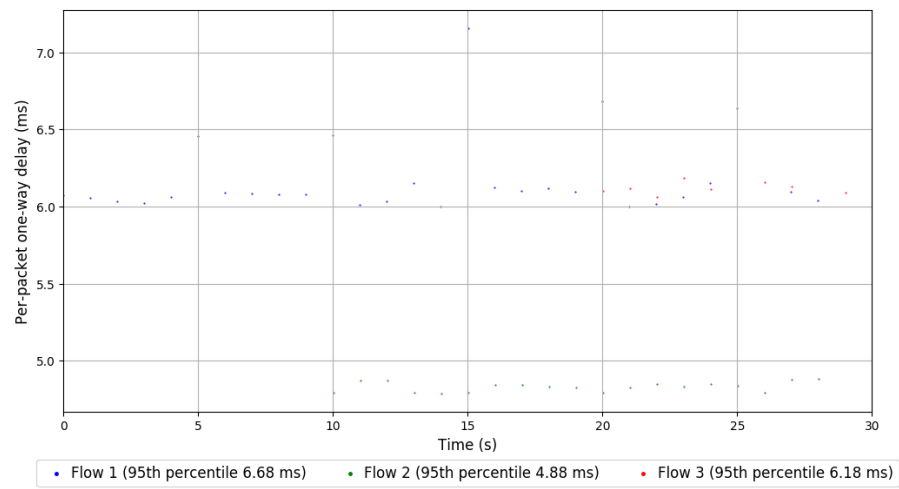
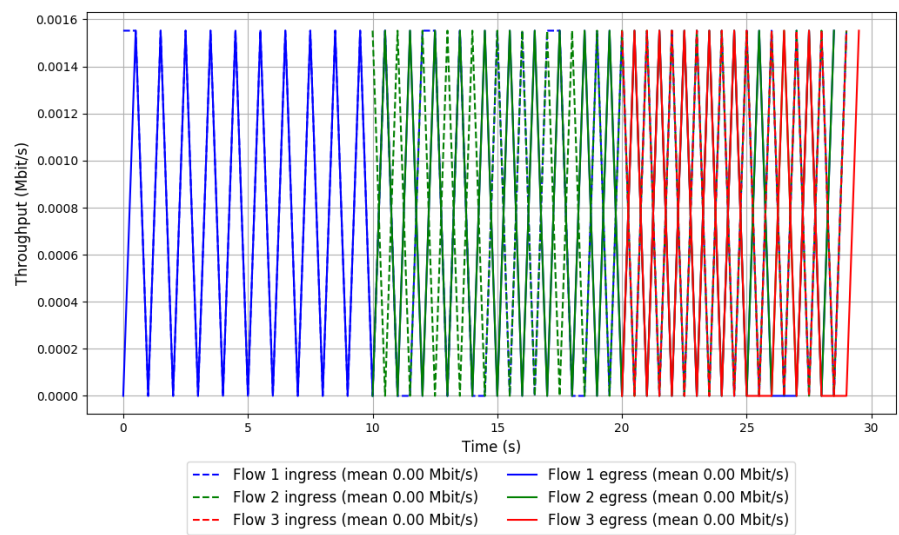
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 6.185 ms

Loss rate: 20.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-25 13:50:15

End at: 2018-05-25 13:50:45

Local clock offset: -1.841 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.153 ms

Loss rate: 6.67%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.190 ms

Loss rate: 10.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 11.930 ms

Loss rate: 5.00%

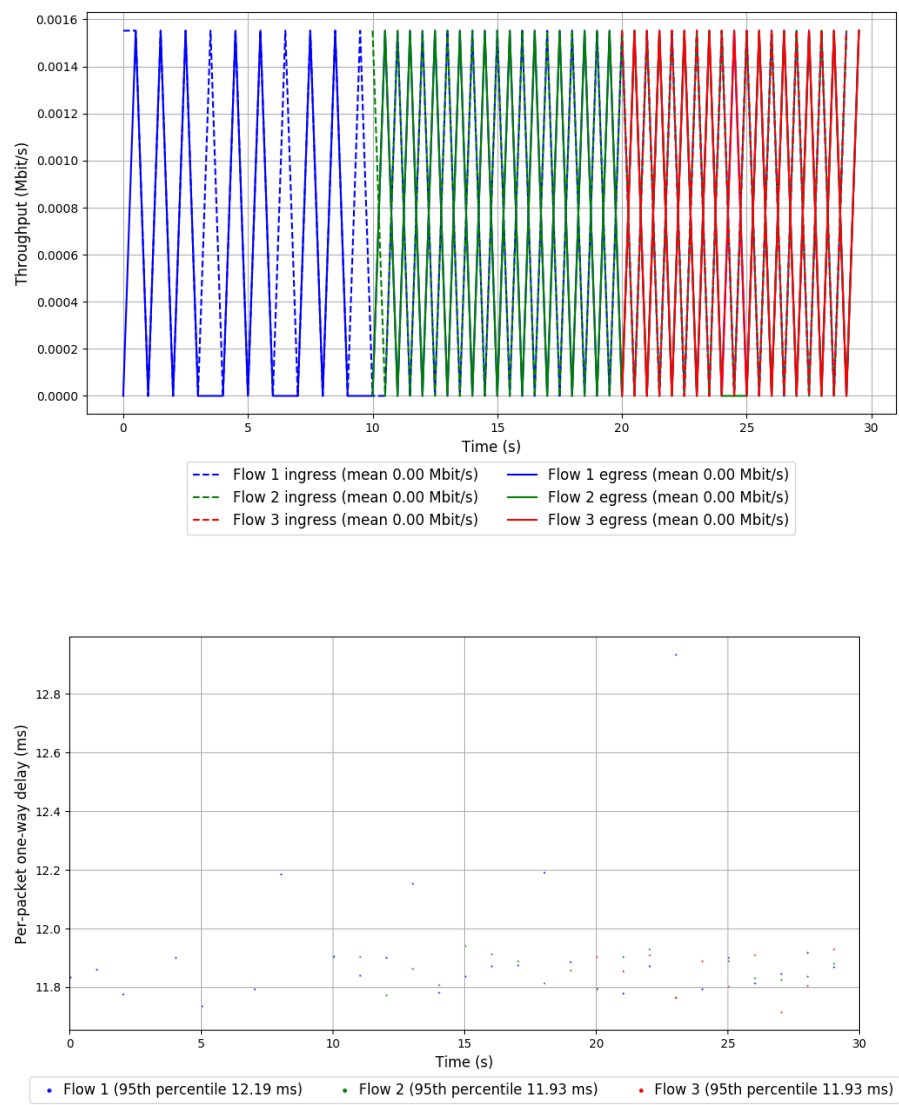
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-25 14:13:27

End at: 2018-05-25 14:13:57

Local clock offset: -2.001 ms

Remote clock offset: 2.753 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 10.625 ms

Loss rate: 8.33%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 11.189 ms

Loss rate: 13.33%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 10.249 ms

Loss rate: 0.00%

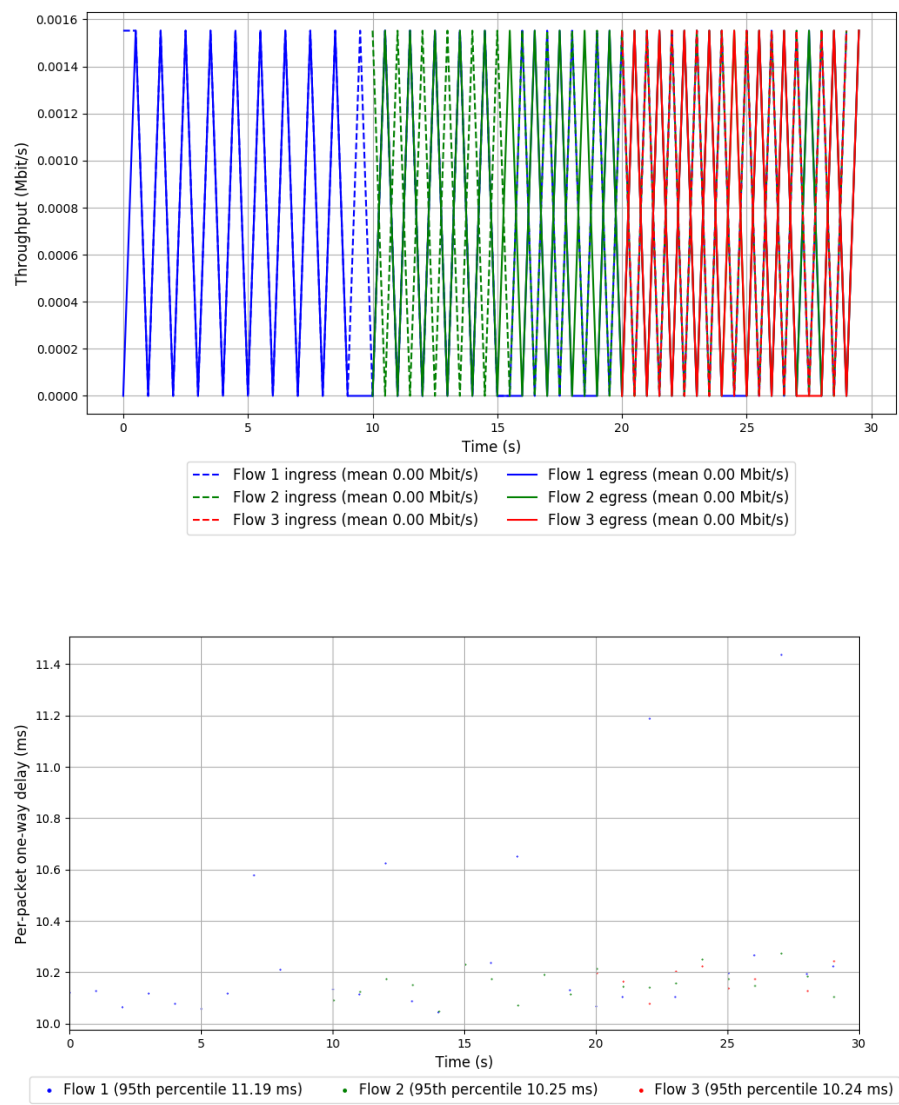
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 10.244 ms

Loss rate: 10.00%

Run 6: Report of Verus — Data Link

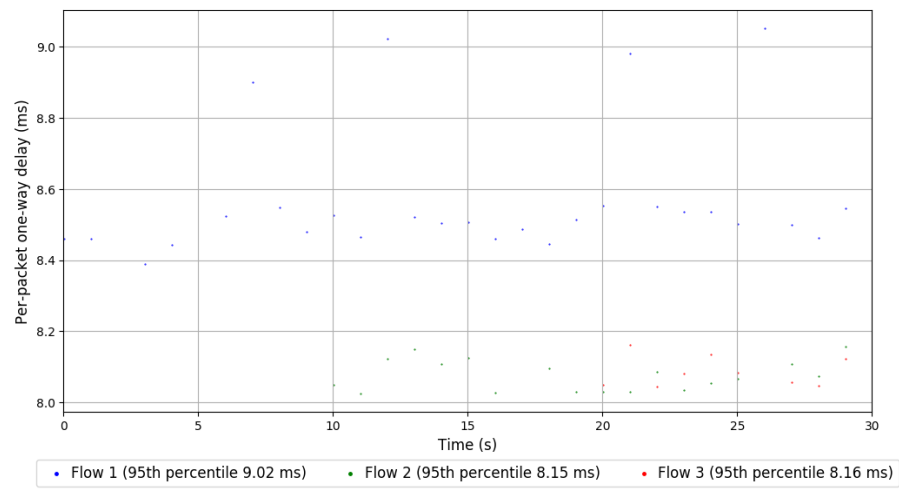
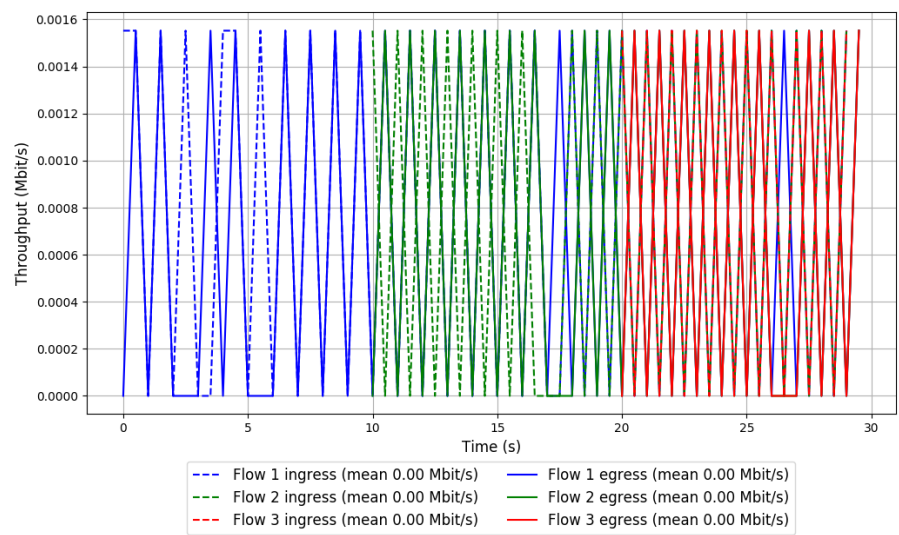


Run 7: Statistics of Verus

Start at: 2018-05-25 14:37:14
End at: 2018-05-25 14:37:44
Local clock offset: -5.147 ms
Remote clock offset: 5.517 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8.901 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 9.023 ms
Loss rate: 6.67%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8.149 ms
Loss rate: 5.26%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8.162 ms
Loss rate: 10.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-25 14:59:11

End at: 2018-05-25 14:59:41

Local clock offset: 0.91 ms

Remote clock offset: 5.94 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 10.399 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 10.488 ms

Loss rate: 3.33%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 10.098 ms

Loss rate: 0.00%

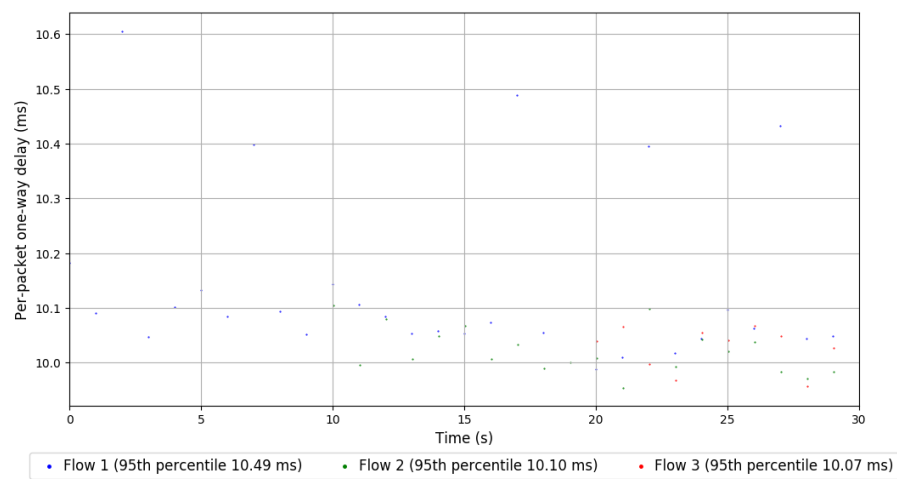
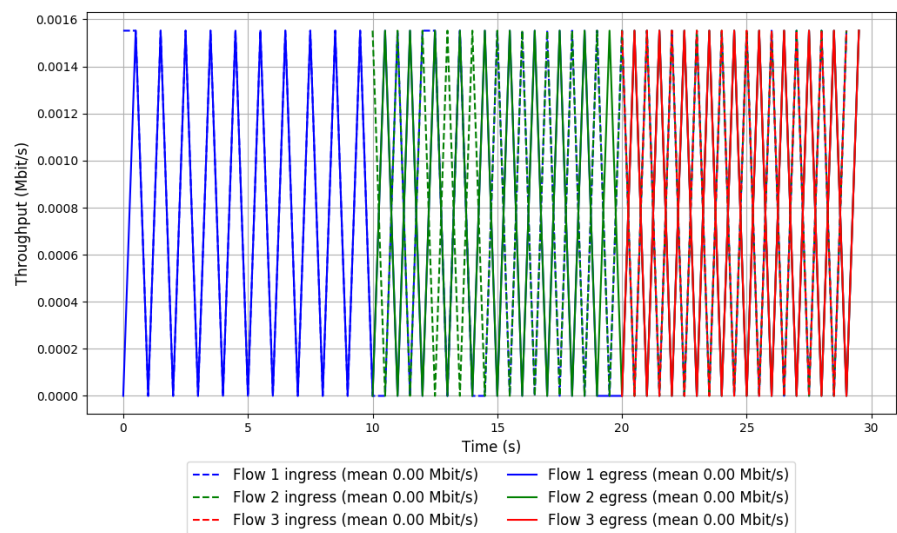
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 10.068 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-25 15:22:14

End at: 2018-05-25 15:22:44

Local clock offset: -0.326 ms

Remote clock offset: 2.088 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.903 ms

Loss rate: 11.86%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 13.000 ms

Loss rate: 10.34%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.035 ms

Loss rate: 20.00%

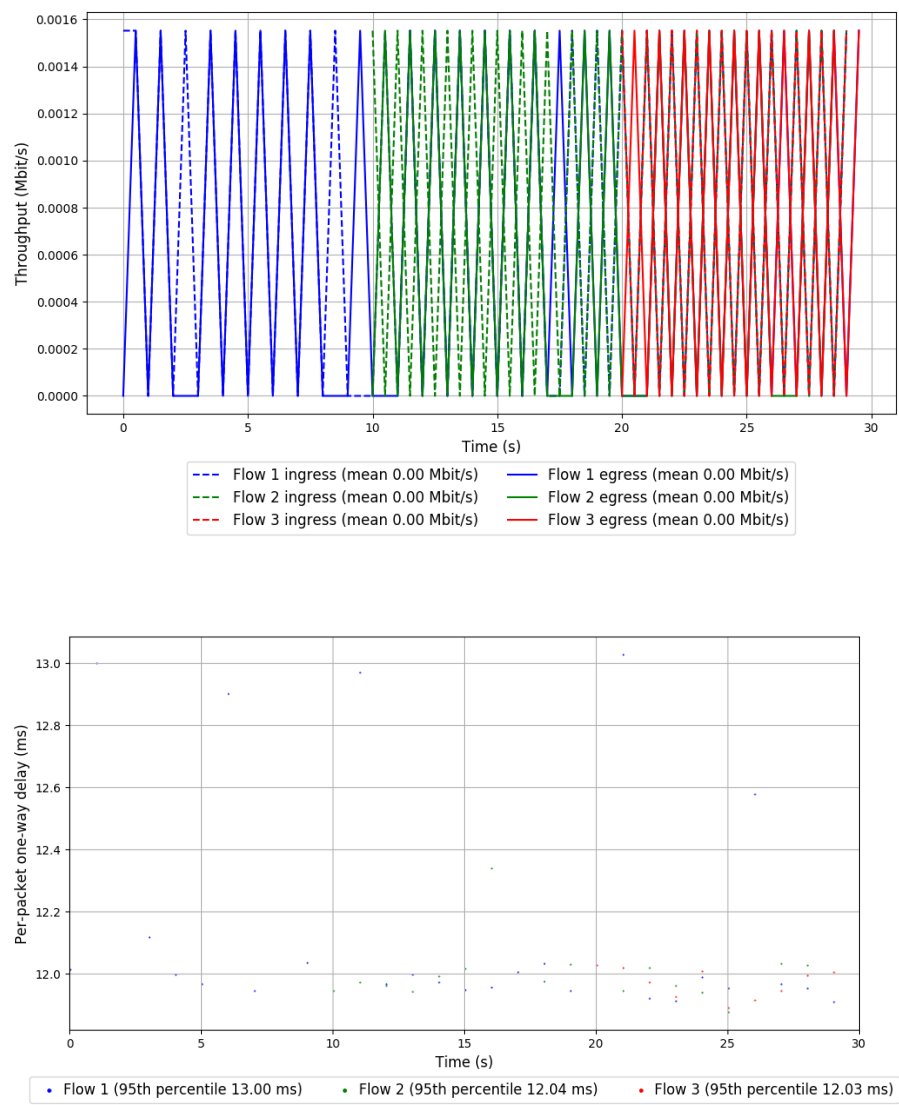
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 12.028 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-25 15:43:55

End at: 2018-05-25 15:44:25

Local clock offset: -3.168 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 9.147 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 9.622 ms

Loss rate: 3.33%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 9.112 ms

Loss rate: 0.00%

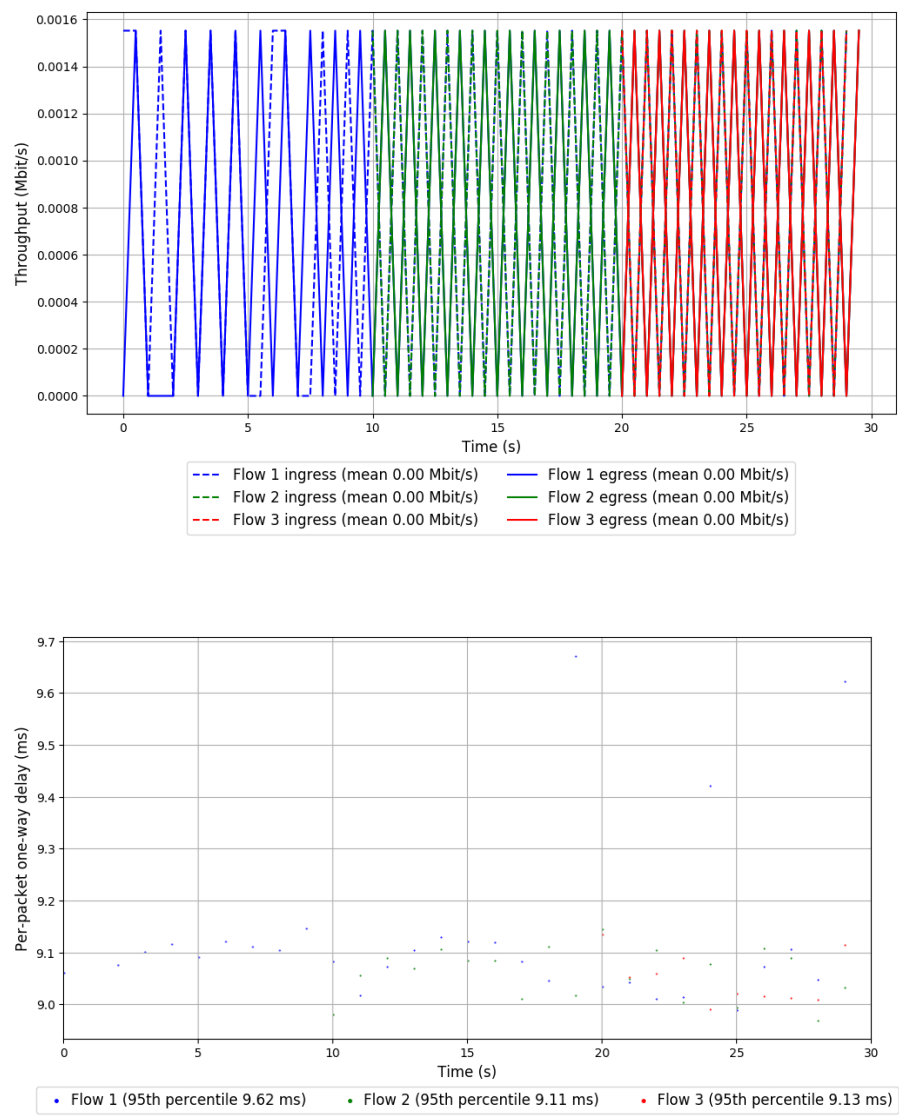
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 9.135 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 12:21:21

End at: 2018-05-25 12:21:51

Local clock offset: -1.158 ms

Remote clock offset: 5.845 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 15.066 ms

Loss rate: 8.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 11.923 ms

Loss rate: 8.83%

-- Flow 2:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 10.699 ms

Loss rate: 7.79%

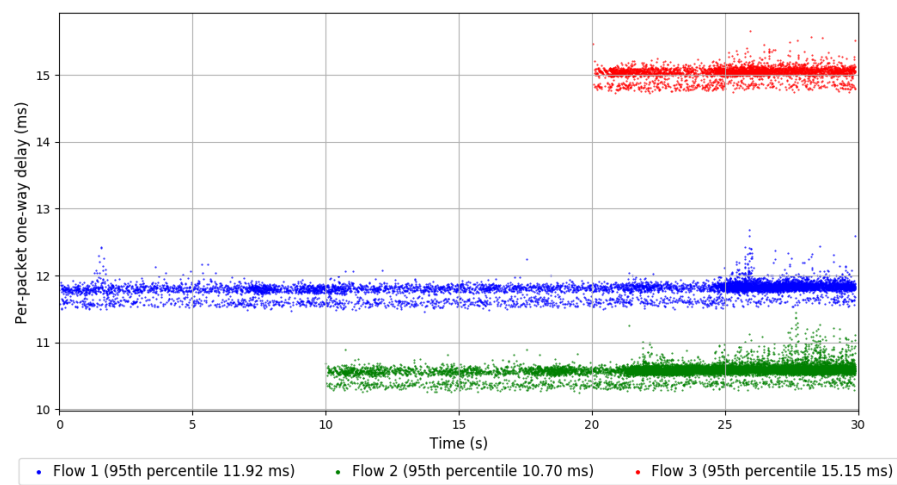
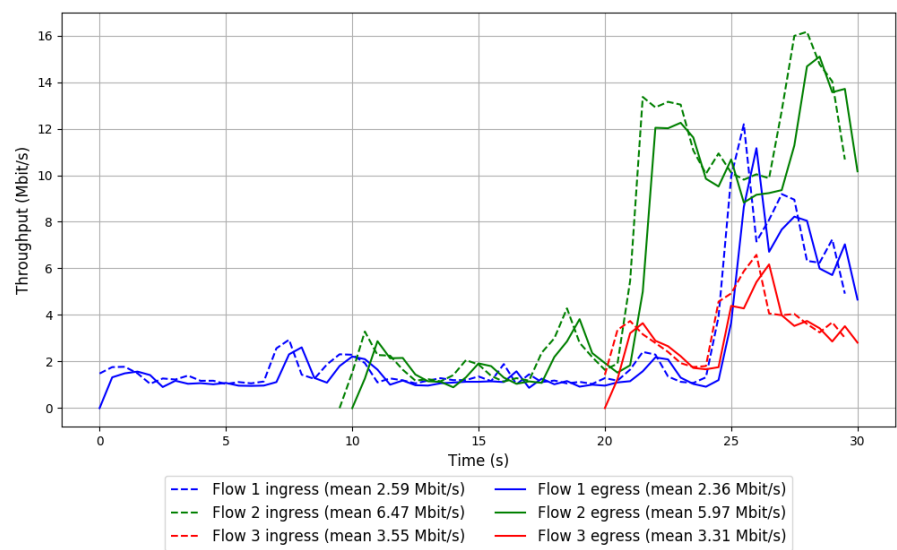
-- Flow 3:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 15.148 ms

Loss rate: 6.92%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 12:43:53

End at: 2018-05-25 12:44:23

Local clock offset: -2.012 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 12.424 ms

Loss rate: 10.19%

-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 12.455 ms

Loss rate: 9.57%

-- Flow 2:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 11.626 ms

Loss rate: 10.32%

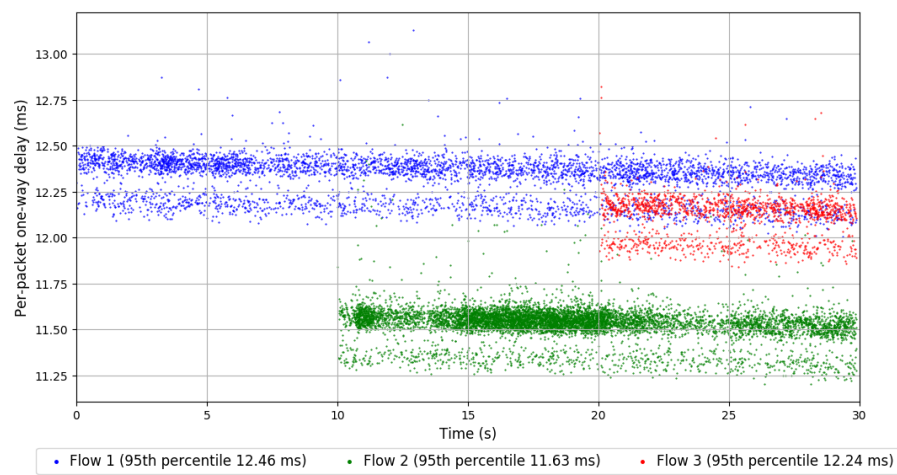
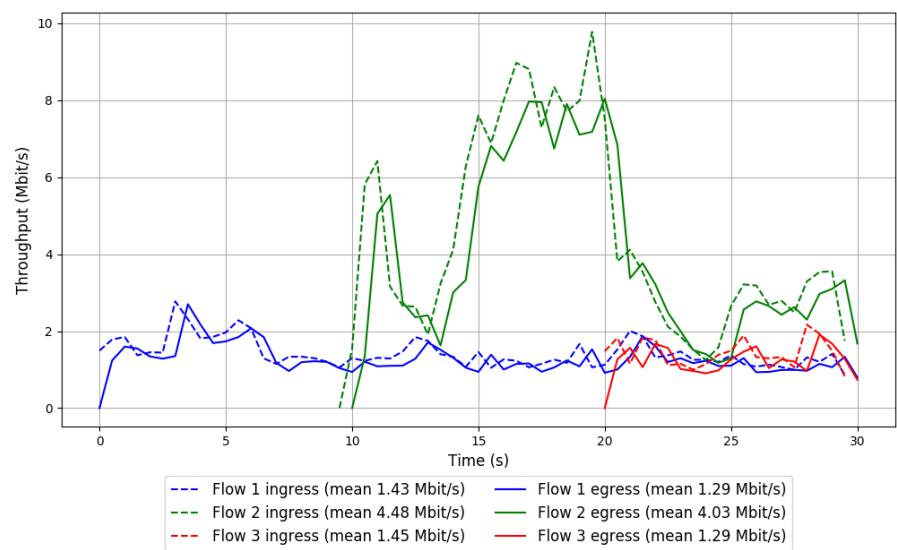
-- Flow 3:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 12.242 ms

Loss rate: 11.28%

Run 2: Report of PCC-Vivace — Data Link

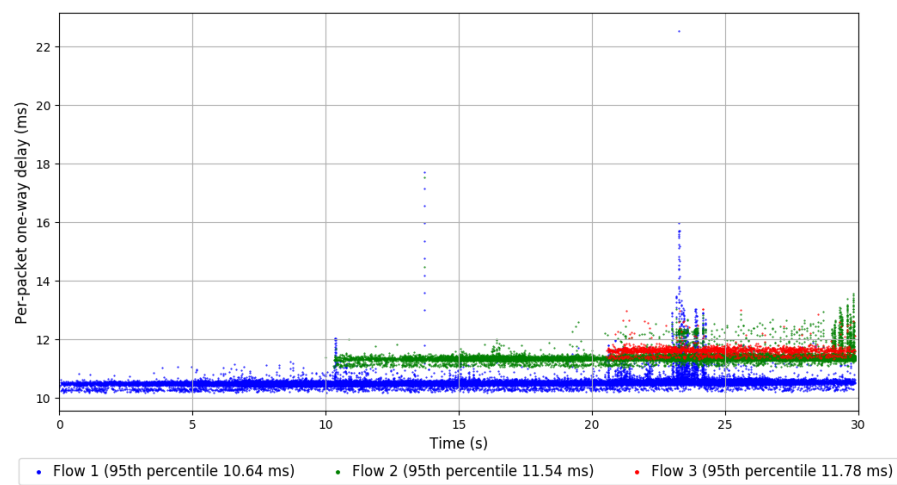
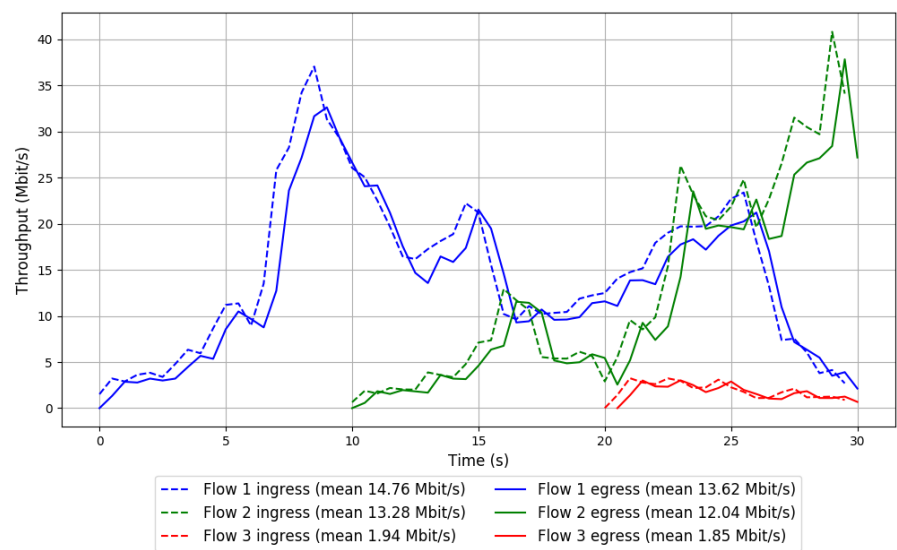


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 13:06:22
End at: 2018-05-25 13:06:52
Local clock offset: -2.653 ms
Remote clock offset: -1.986 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 11.525 ms
Loss rate: 8.50%
-- Flow 1:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 10.645 ms
Loss rate: 7.84%
-- Flow 2:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 11.535 ms
Loss rate: 9.49%
-- Flow 3:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 11.783 ms
Loss rate: 10.01%

Run 3: Report of PCC-Vivace — Data Link

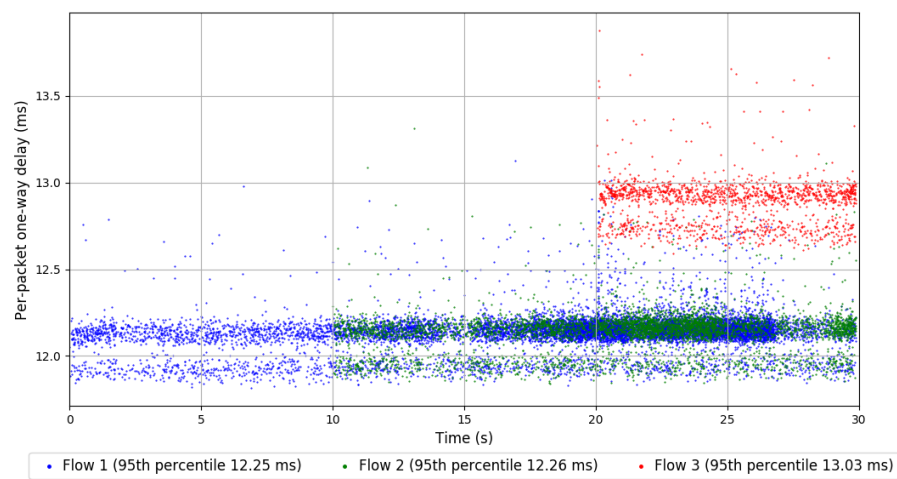
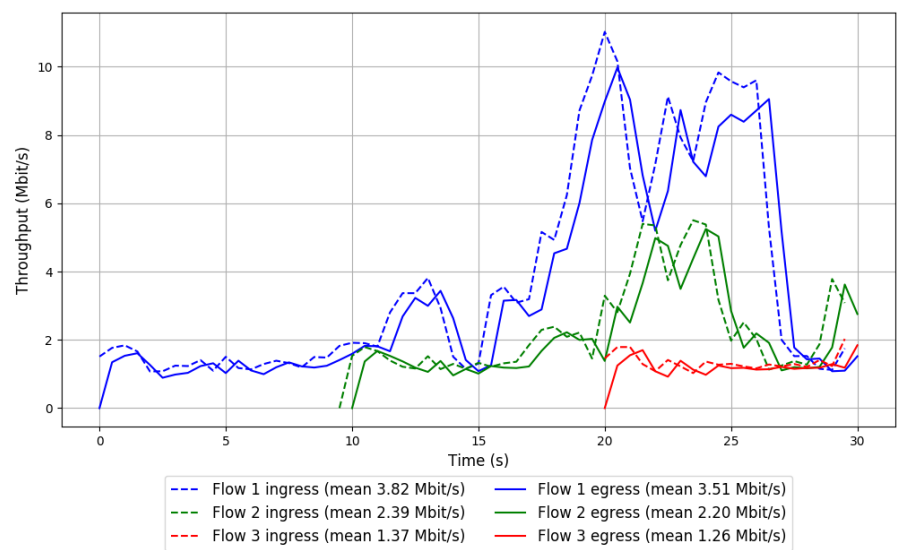


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 13:28:56
End at: 2018-05-25 13:29:26
Local clock offset: -1.194 ms
Remote clock offset: -1.022 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 12.912 ms
Loss rate: 8.14%
-- Flow 1:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 12.249 ms
Loss rate: 8.24%
-- Flow 2:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 12.258 ms
Loss rate: 7.96%
-- Flow 3:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 13.026 ms
Loss rate: 8.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 13:51:20

End at: 2018-05-25 13:51:50

Local clock offset: 0.171 ms

Remote clock offset: 0.691 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 14.029 ms

Loss rate: 11.01%

-- Flow 1:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 14.010 ms

Loss rate: 10.75%

-- Flow 2:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 14.055 ms

Loss rate: 11.35%

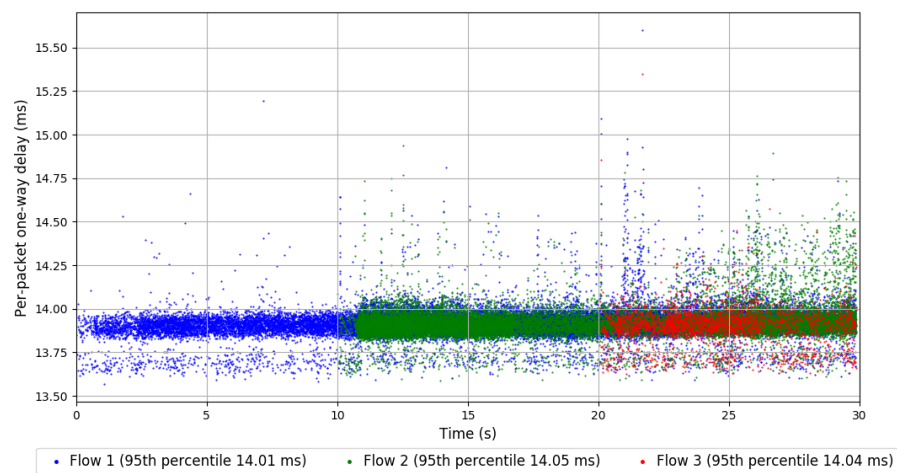
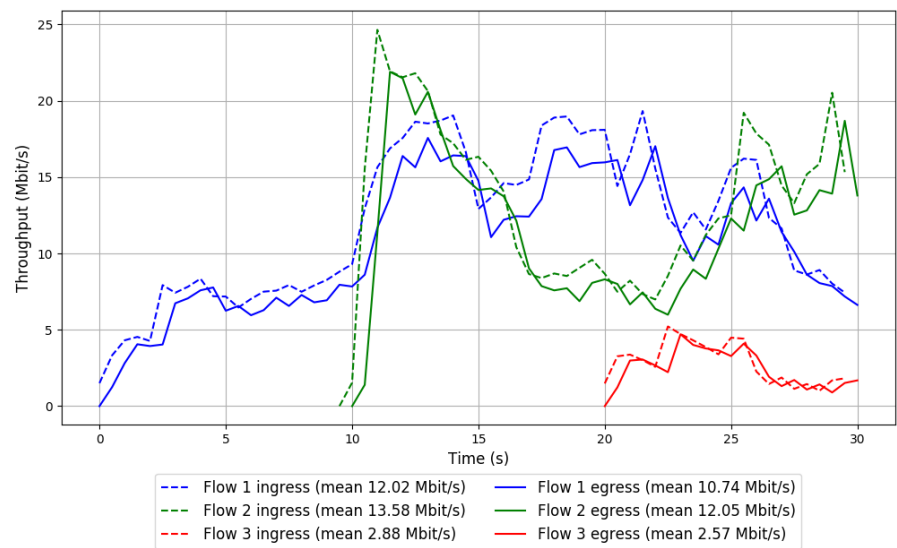
-- Flow 3:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 14.038 ms

Loss rate: 11.04%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 14:14:33

End at: 2018-05-25 14:15:03

Local clock offset: -0.631 ms

Remote clock offset: 7.355 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 7.314 ms

Loss rate: 10.94%

-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 7.313 ms

Loss rate: 11.39%

-- Flow 2:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 7.311 ms

Loss rate: 10.25%

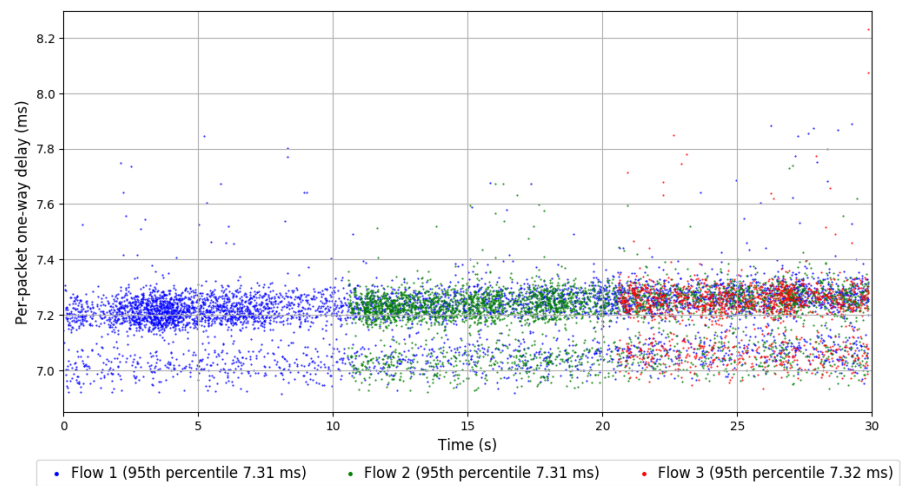
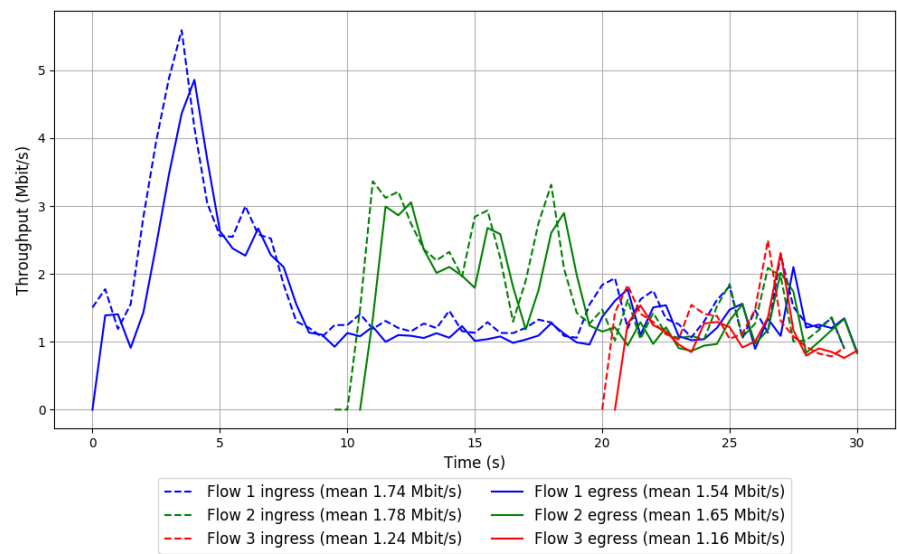
-- Flow 3:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 7.320 ms

Loss rate: 11.09%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 14:38:24

End at: 2018-05-25 14:38:54

Local clock offset: 0.571 ms

Remote clock offset: 5.084 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.26 Mbit/s

95th percentile per-packet one-way delay: 14.872 ms

Loss rate: 10.35%

-- Flow 1:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 14.464 ms

Loss rate: 10.04%

-- Flow 2:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 14.902 ms

Loss rate: 10.92%

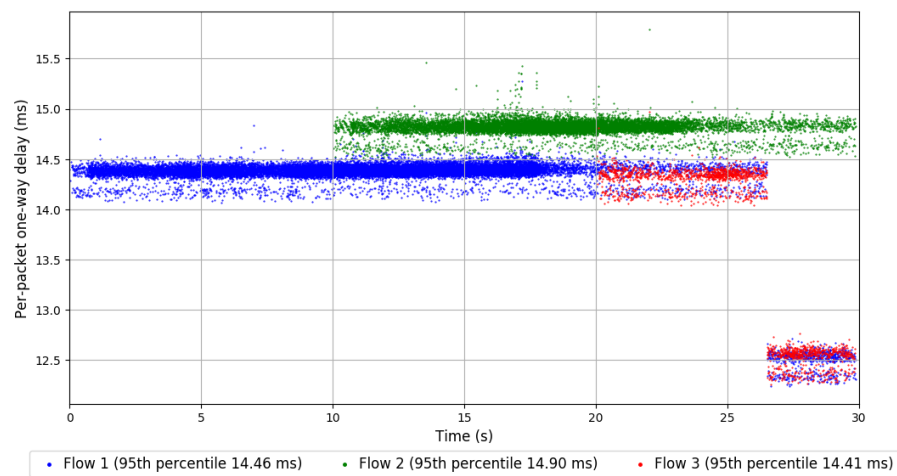
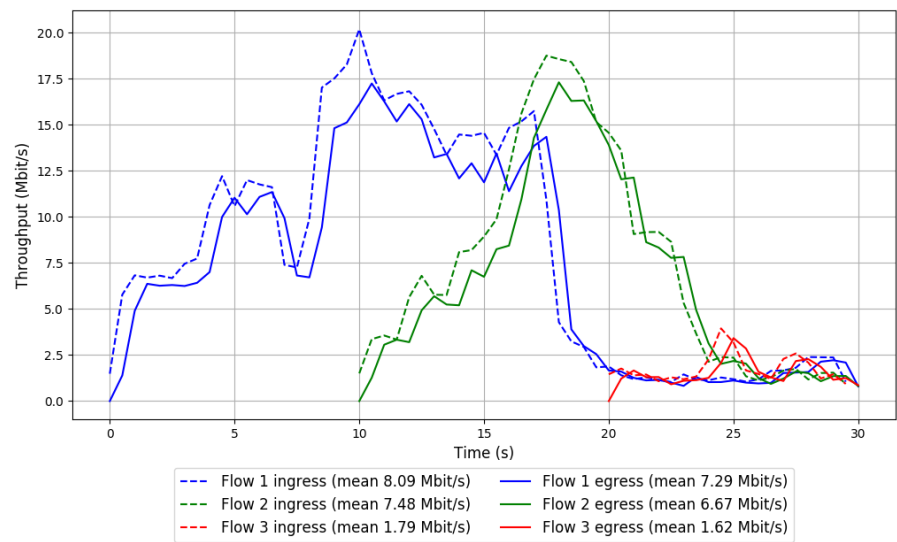
-- Flow 3:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 14.411 ms

Loss rate: 9.84%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 15:00:18

End at: 2018-05-25 15:00:48

Local clock offset: 0.234 ms

Remote clock offset: 2.478 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 13.011 ms

Loss rate: 6.52%

-- Flow 1:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 13.016 ms

Loss rate: 7.12%

-- Flow 2:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 12.996 ms

Loss rate: 6.17%

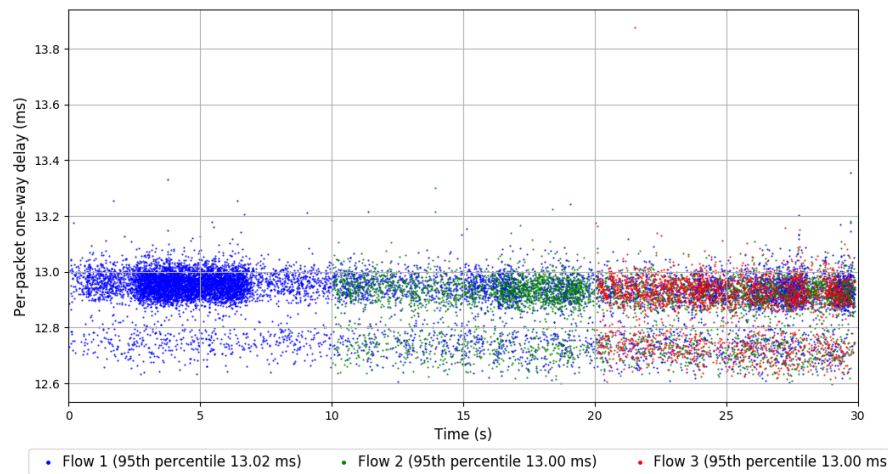
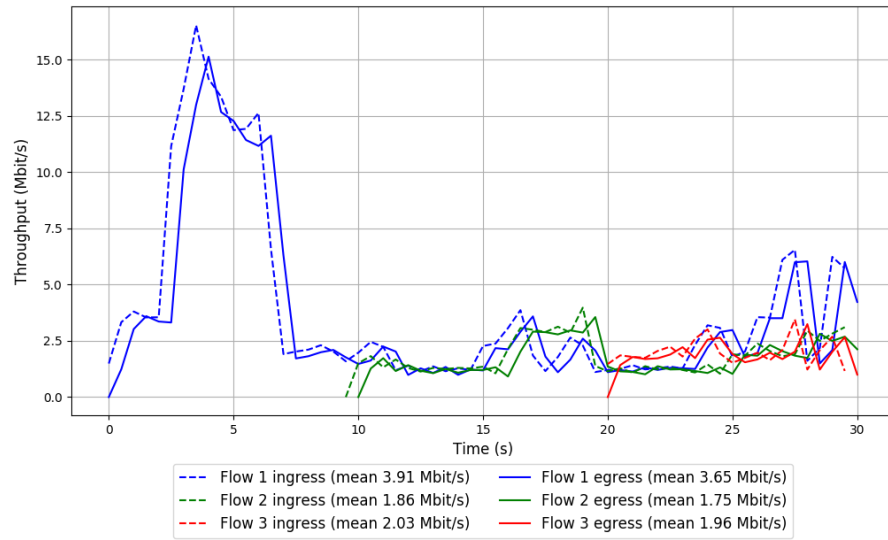
-- Flow 3:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 13.003 ms

Loss rate: 3.66%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 15:23:20

End at: 2018-05-25 15:23:50

Local clock offset: -0.991 ms

Remote clock offset: 1.479 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 11.995 ms

Loss rate: 9.93%

-- Flow 1:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 11.990 ms

Loss rate: 10.86%

-- Flow 2:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 11.997 ms

Loss rate: 9.43%

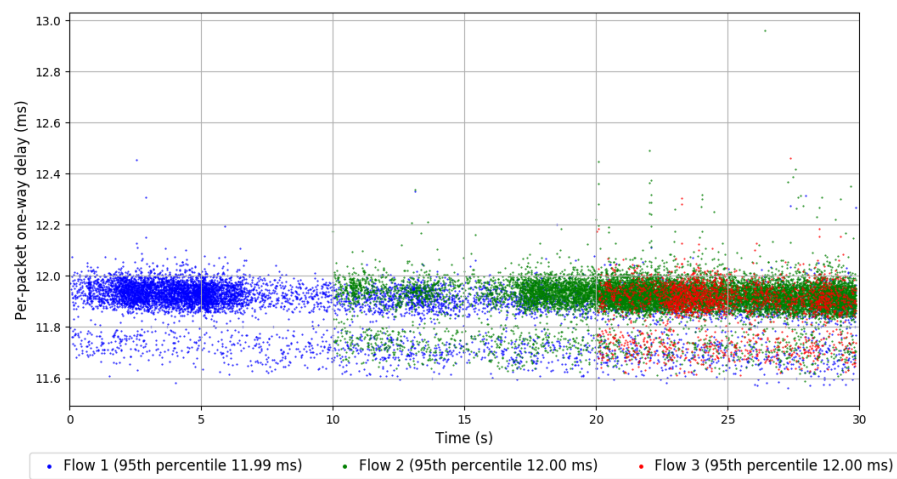
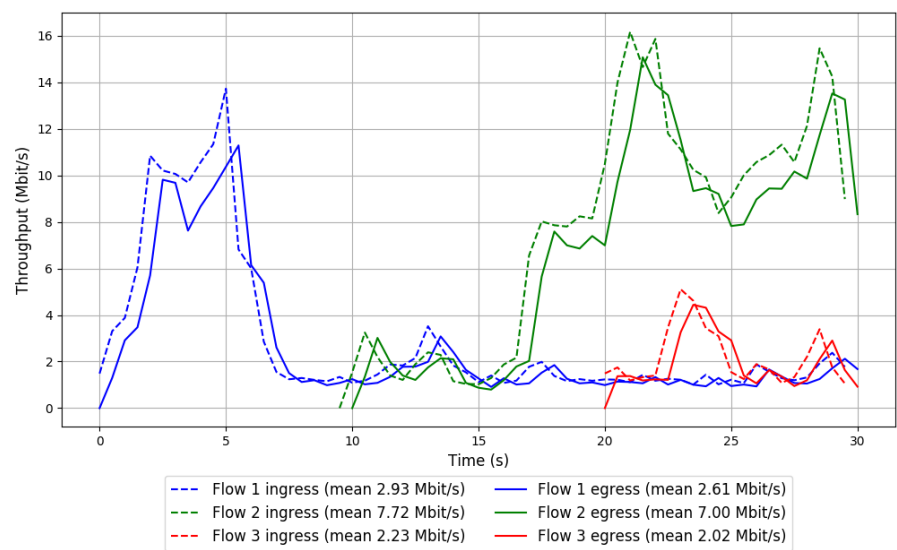
-- Flow 3:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 11.998 ms

Loss rate: 9.71%

Run 9: Report of PCC-Vivace — Data Link

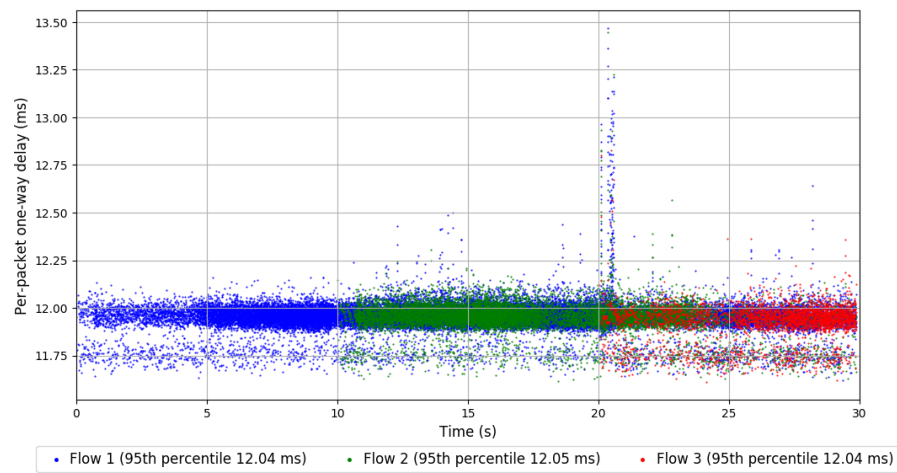
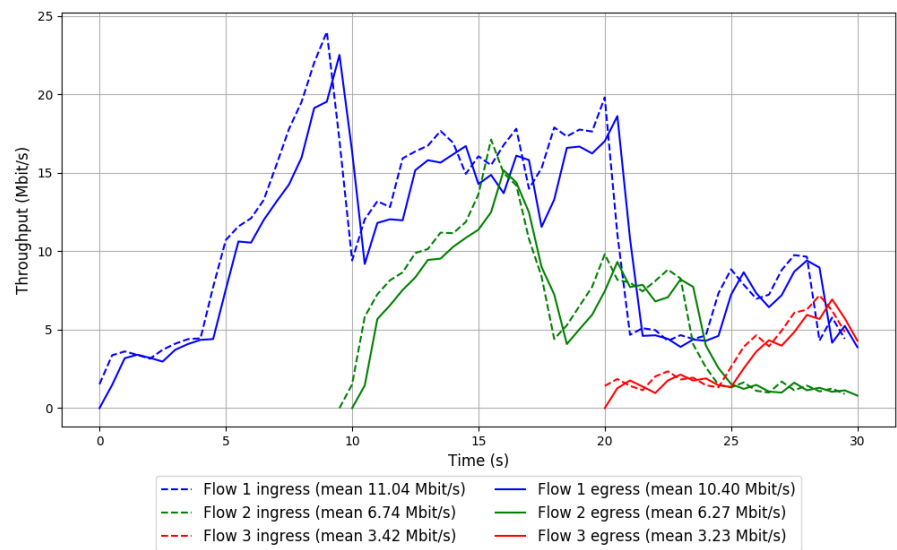


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 15:45:00
End at: 2018-05-25 15:45:30
Local clock offset: -0.722 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 12.039 ms
Loss rate: 6.23%
-- Flow 1:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 12.036 ms
Loss rate: 5.91%
-- Flow 2:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 12.048 ms
Loss rate: 7.13%
-- Flow 3:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 12.035 ms
Loss rate: 5.67%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-25 12:12:34

End at: 2018-05-25 12:13:04

Local clock offset: 1.85 ms

Remote clock offset: 9.91 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 10.283 ms

Loss rate: 6.01%

-- Flow 1:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 10.154 ms

Loss rate: 6.09%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 10.462 ms

Loss rate: 6.52%

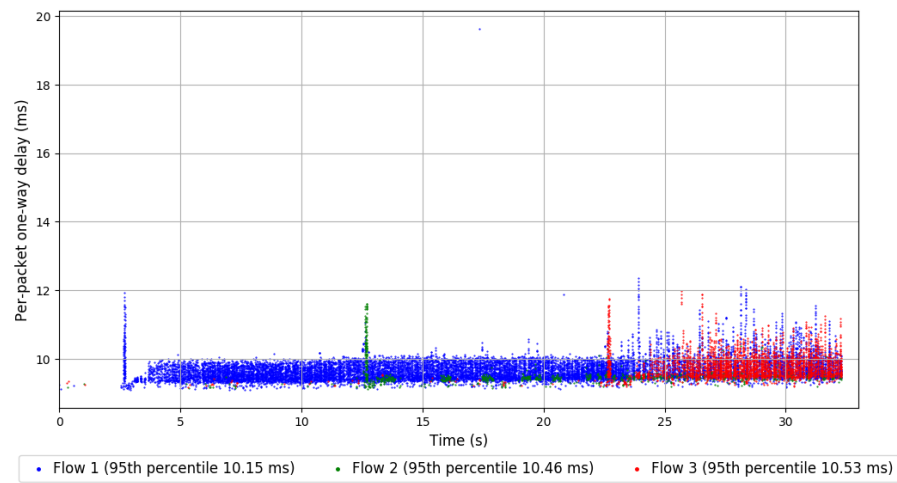
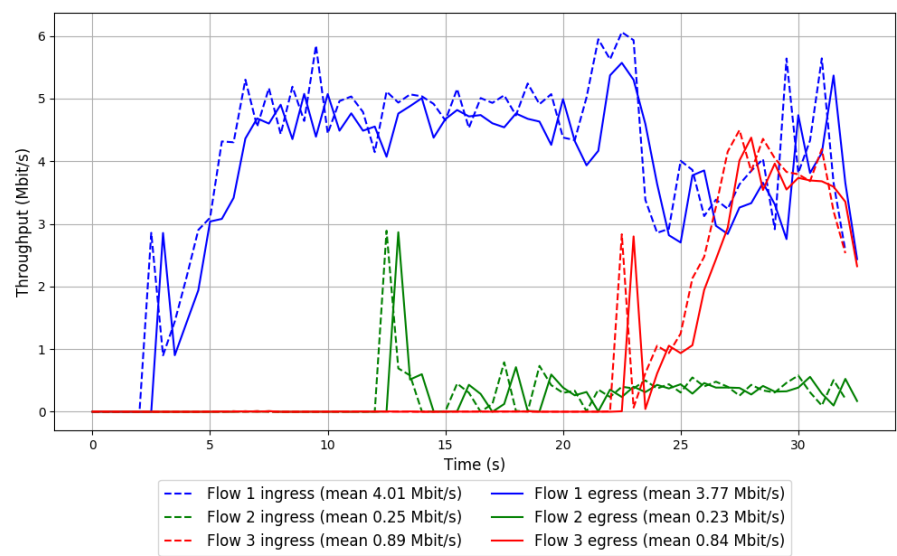
-- Flow 3:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 10.534 ms

Loss rate: 5.48%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 12:35:10

End at: 2018-05-25 12:35:40

Local clock offset: -0.963 ms

Remote clock offset: 2.511 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 13.997 ms

Loss rate: 7.18%

-- Flow 1:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 13.998 ms

Loss rate: 6.87%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 14.020 ms

Loss rate: 6.79%

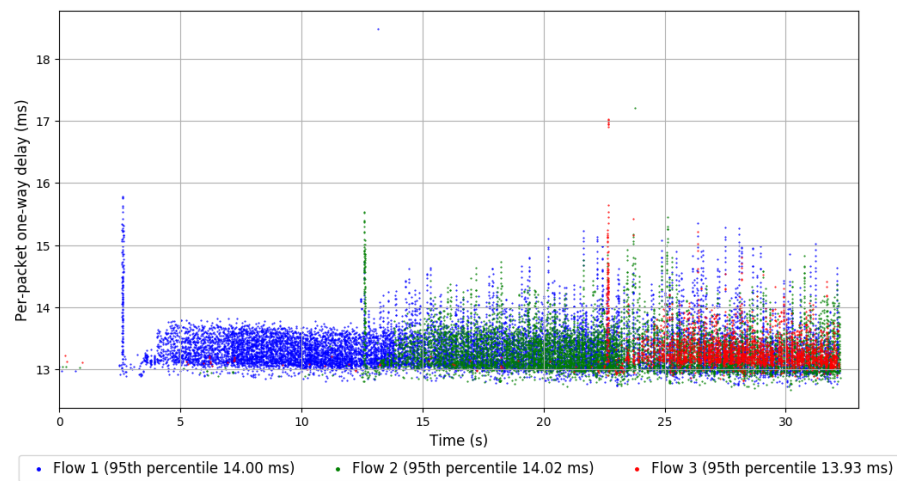
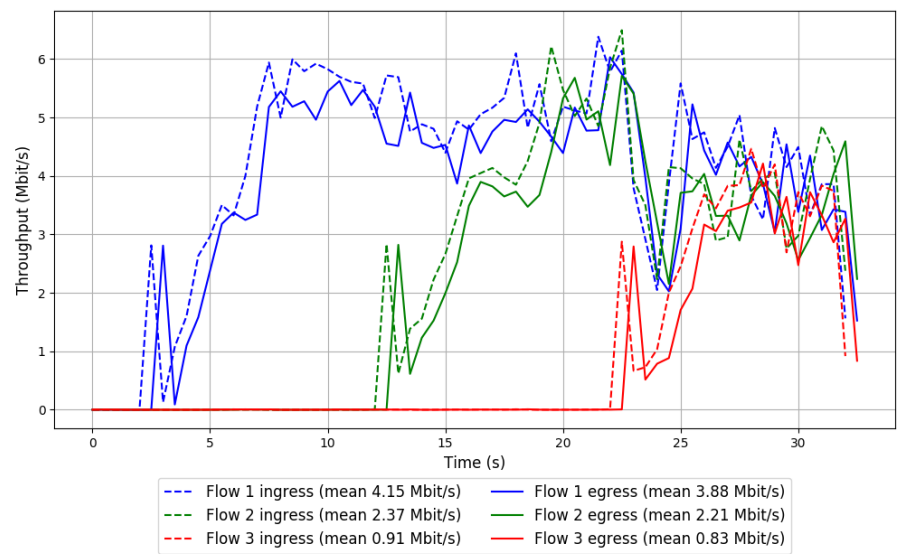
-- Flow 3:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 13.926 ms

Loss rate: 9.57%

Run 2: Report of WebRTC media — Data Link

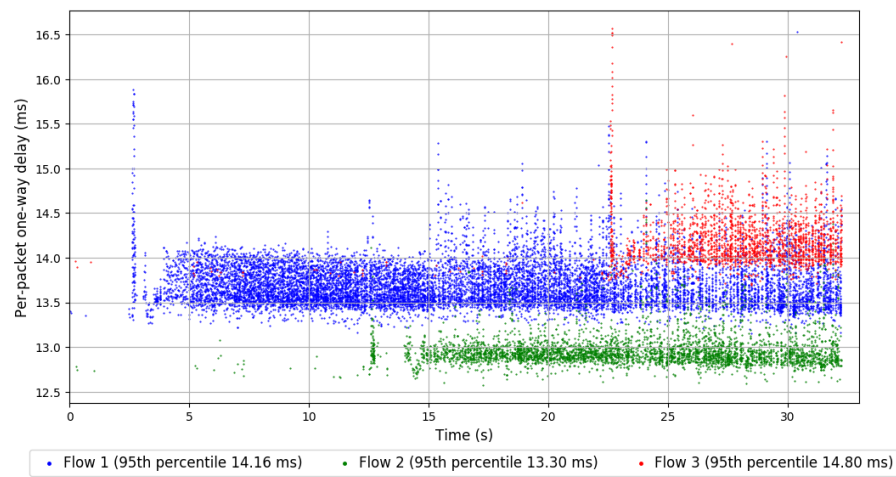
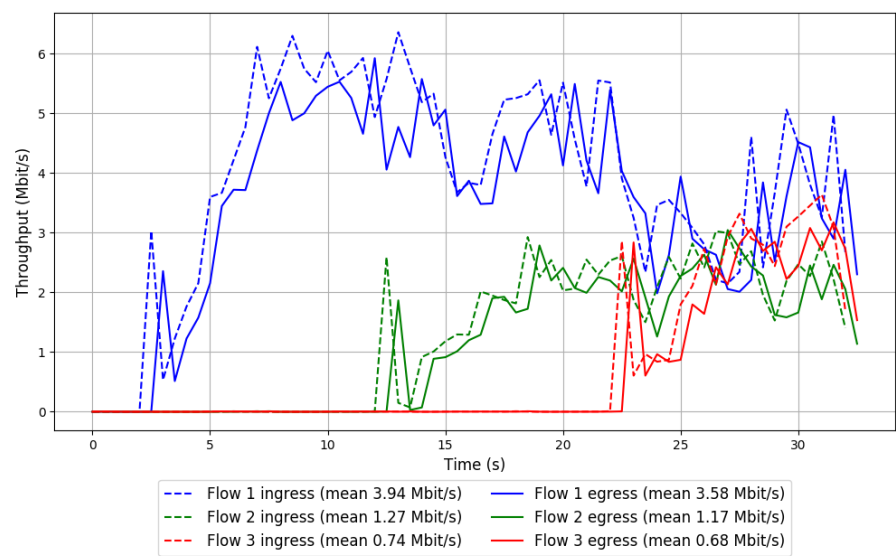


Run 3: Statistics of WebRTC media

Start at: 2018-05-25 12:57:51
End at: 2018-05-25 12:58:21
Local clock offset: -0.619 ms
Remote clock offset: -1.545 ms

Below is generated by plot.py at 2018-05-25 16:03:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 14.331 ms
Loss rate: 9.09%
-- Flow 1:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 14.158 ms
Loss rate: 9.45%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 13.297 ms
Loss rate: 8.20%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 14.803 ms
Loss rate: 8.69%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 13:20:13

End at: 2018-05-25 13:20:43

Local clock offset: -8.42 ms

Remote clock offset: 0.876 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 4.741 ms

Loss rate: 7.92%

-- Flow 1:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 4.209 ms

Loss rate: 6.90%

-- Flow 2:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 5.098 ms

Loss rate: 8.51%

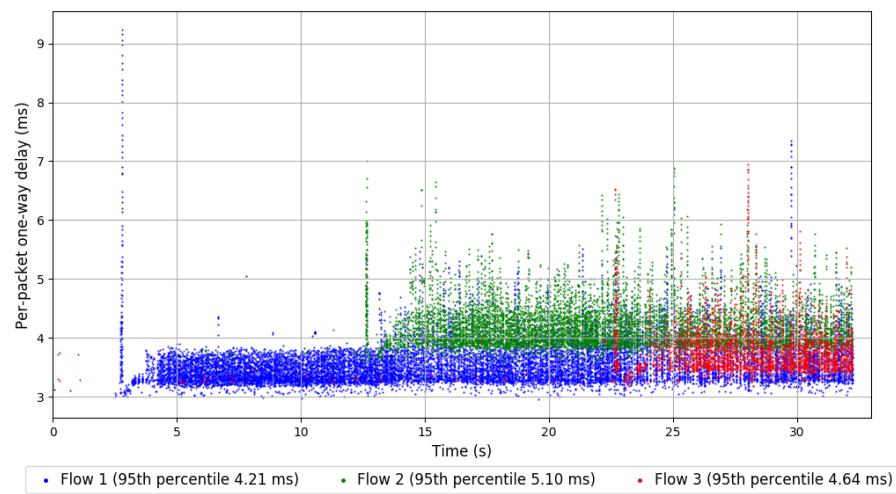
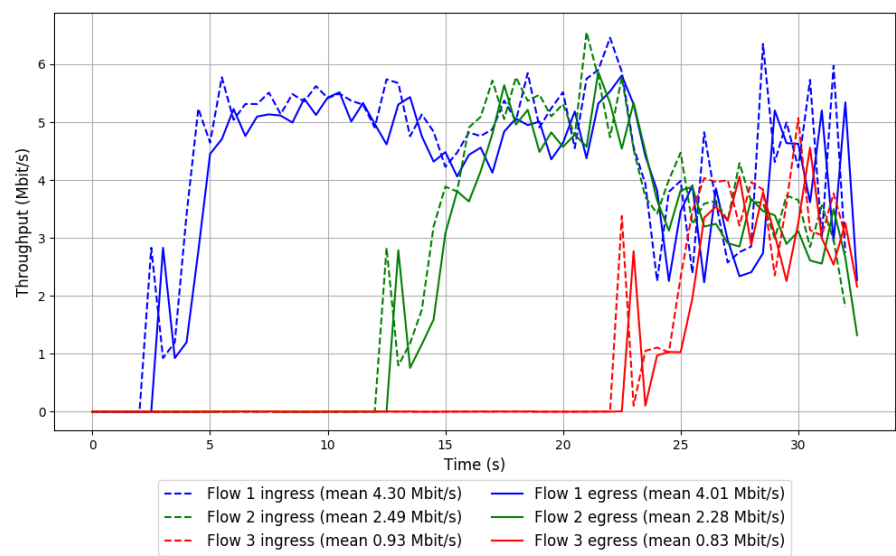
-- Flow 3:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 4.641 ms

Loss rate: 11.09%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 13:42:36

End at: 2018-05-25 13:43:06

Local clock offset: -0.876 ms

Remote clock offset: 0.694 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 13.524 ms

Loss rate: 11.03%

-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 13.467 ms

Loss rate: 10.12%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 13.662 ms

Loss rate: 11.74%

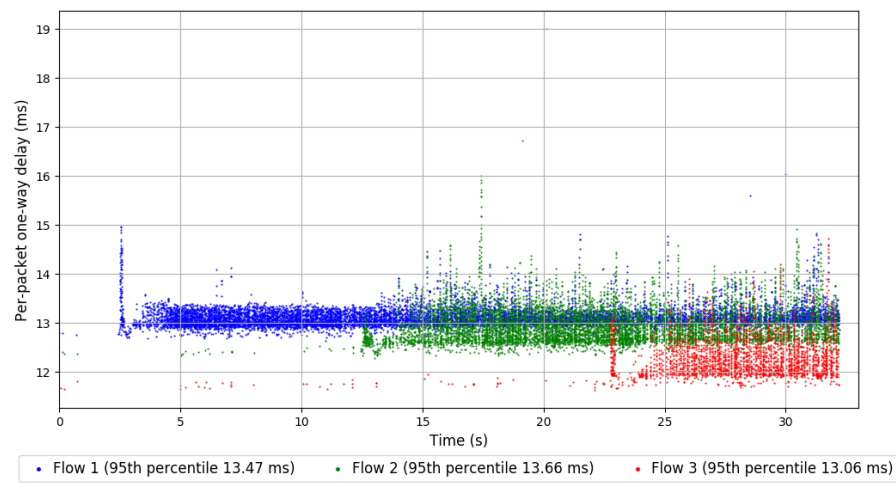
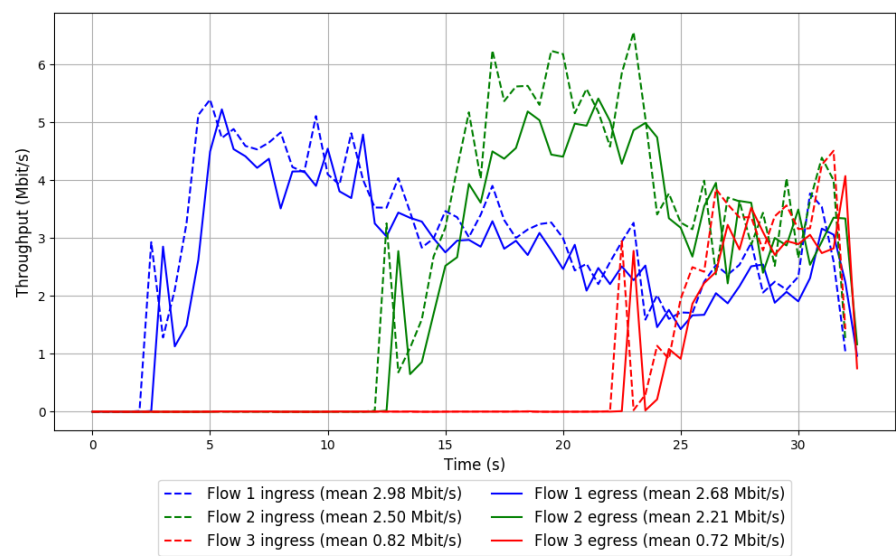
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 13.065 ms

Loss rate: 12.21%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-25 14:05:49

End at: 2018-05-25 14:06:19

Local clock offset: 0.953 ms

Remote clock offset: 7.168 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 9.406 ms

Loss rate: 9.60%

-- Flow 1:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 9.194 ms

Loss rate: 9.35%

-- Flow 2:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 9.461 ms

Loss rate: 9.57%

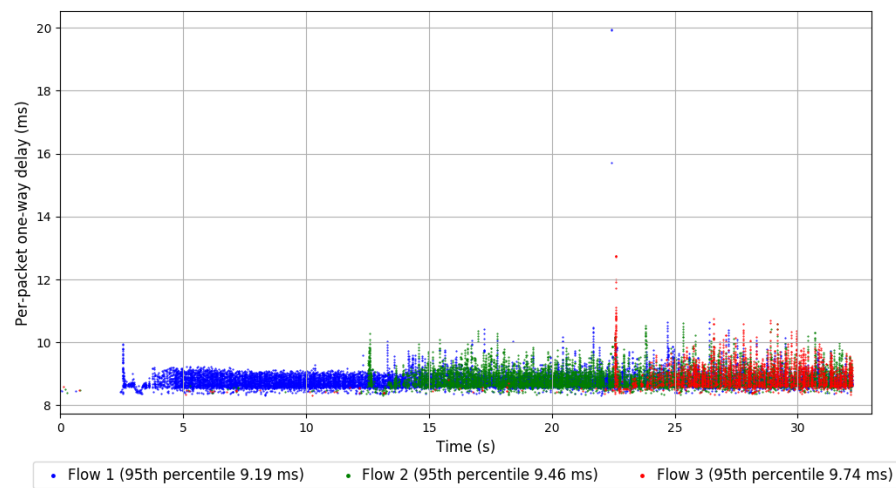
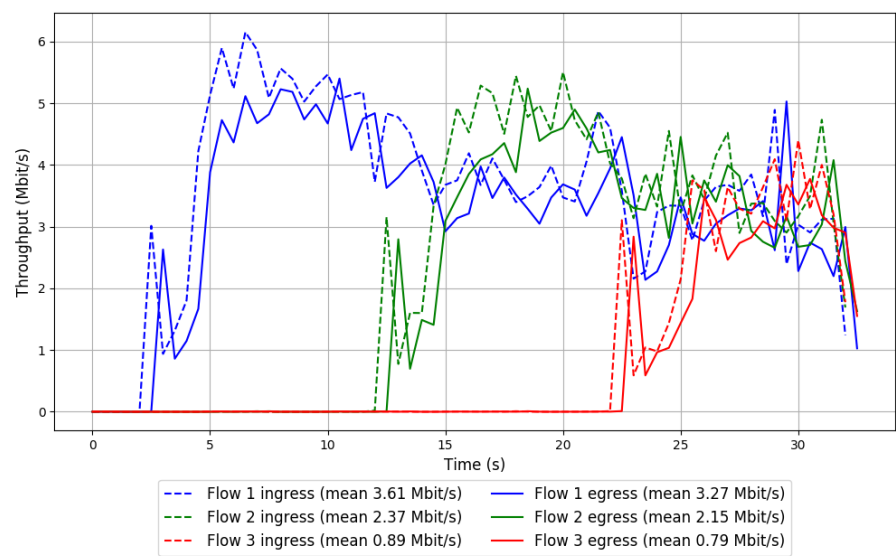
-- Flow 3:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 9.741 ms

Loss rate: 10.68%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 14:29:25

End at: 2018-05-25 14:29:55

Local clock offset: -2.432 ms

Remote clock offset: 4.241 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 10.466 ms

Loss rate: 13.01%

-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 10.405 ms

Loss rate: 12.65%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 10.541 ms

Loss rate: 13.05%

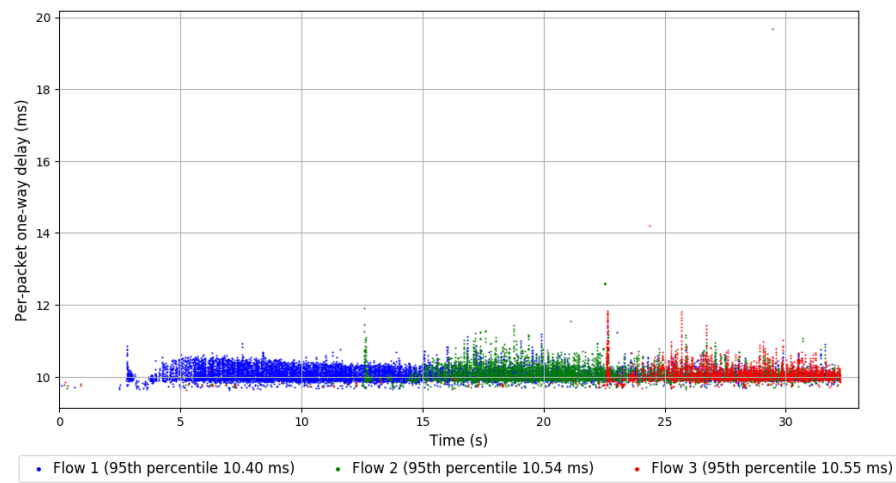
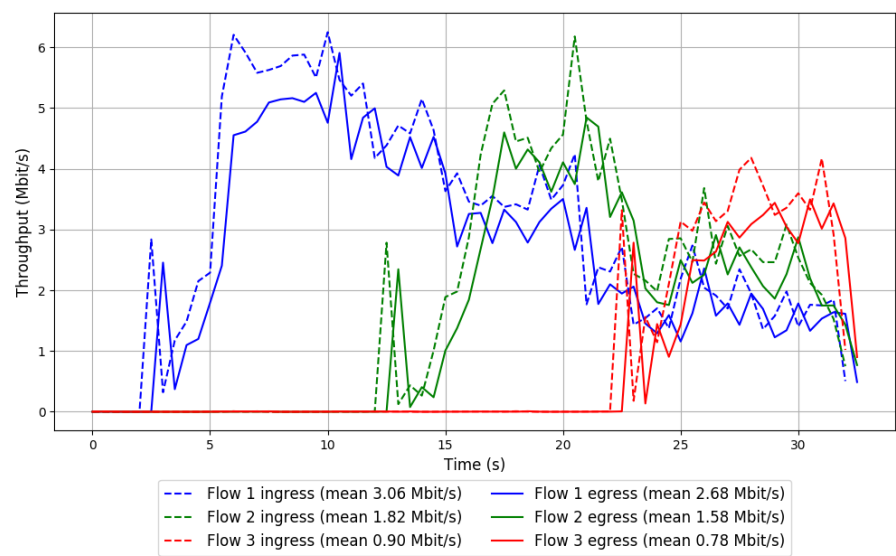
-- Flow 3:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 10.551 ms

Loss rate: 14.19%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 14:51:48

End at: 2018-05-25 14:52:18

Local clock offset: -5.648 ms

Remote clock offset: 4.322 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 6.628 ms

Loss rate: 6.83%

-- Flow 1:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 6.664 ms

Loss rate: 6.70%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 6.426 ms

Loss rate: 7.42%

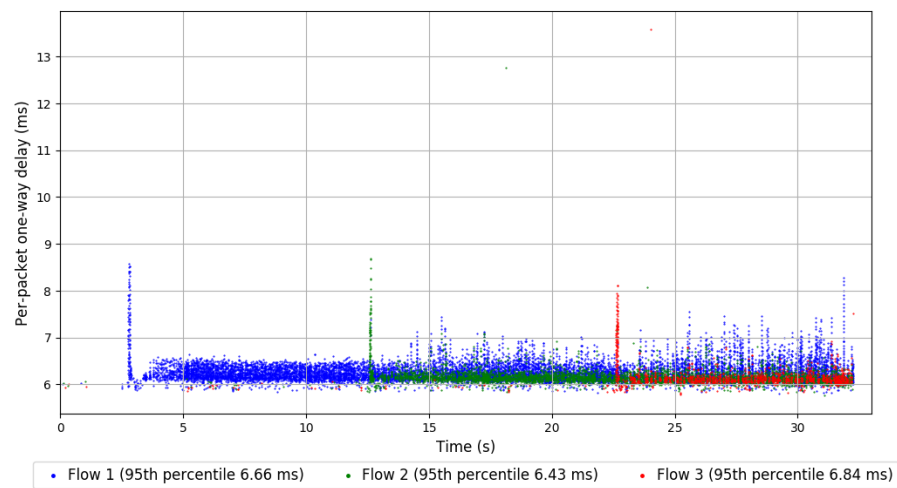
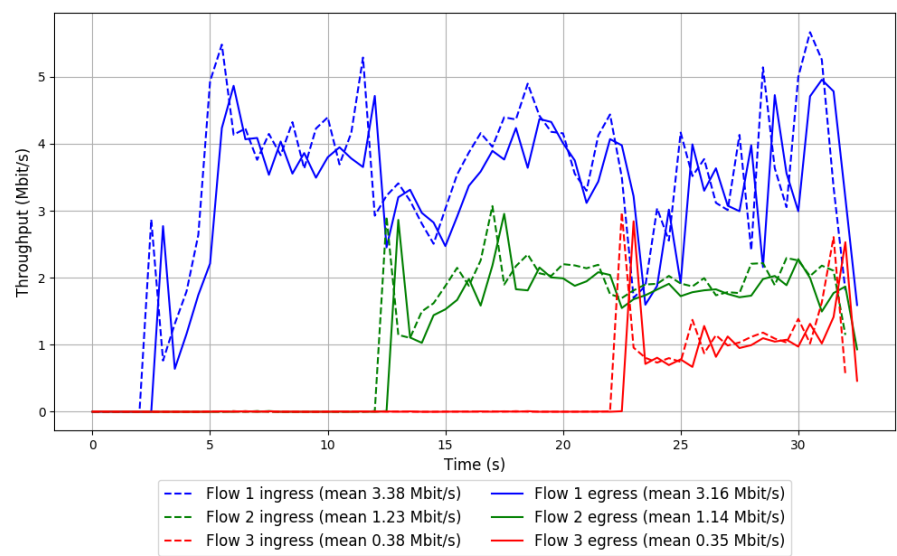
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 6.842 ms

Loss rate: 6.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-25 15:14:22

End at: 2018-05-25 15:14:52

Local clock offset: -4.032 ms

Remote clock offset: 2.453 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 8.912 ms

Loss rate: 7.90%

-- Flow 1:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 8.864 ms

Loss rate: 7.87%

-- Flow 2:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 8.749 ms

Loss rate: 7.13%

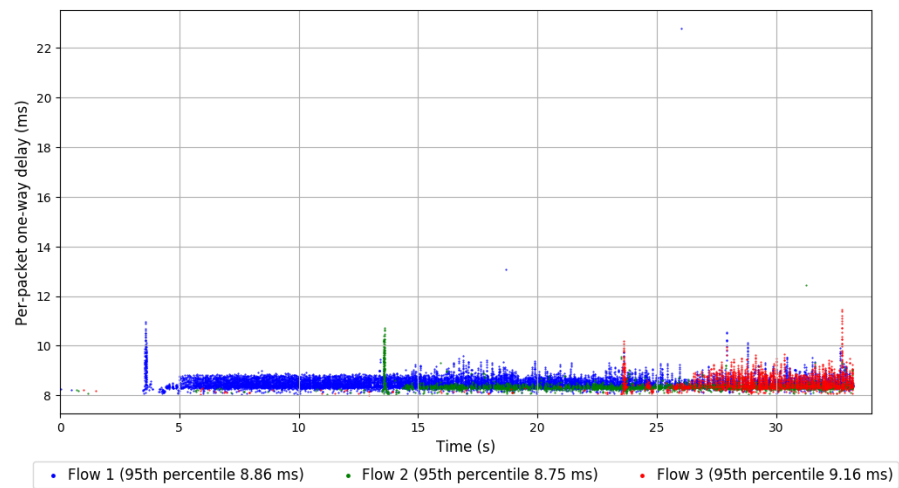
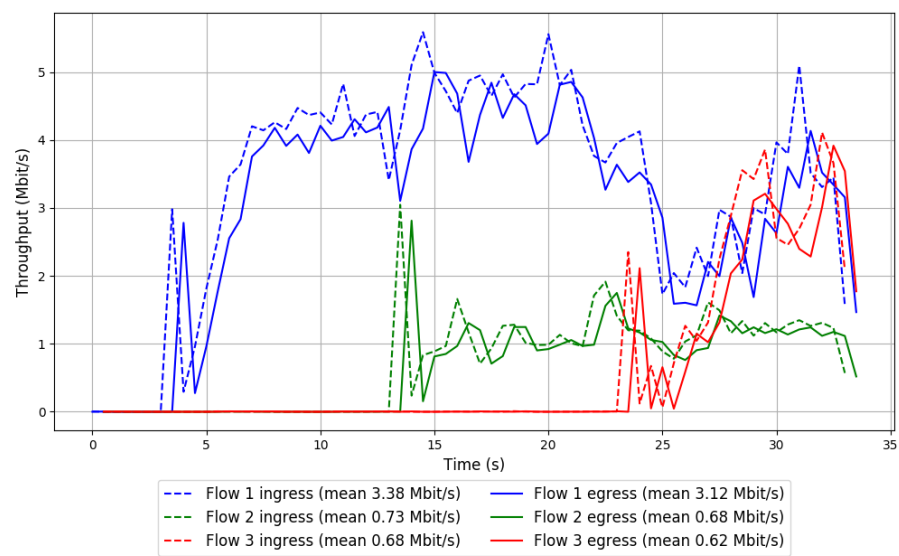
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 9.162 ms

Loss rate: 8.90%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 15:36:36

End at: 2018-05-25 15:37:06

Local clock offset: -1.463 ms

Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-05-25 16:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 12.049 ms

Loss rate: 9.00%

-- Flow 1:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 12.052 ms

Loss rate: 8.97%

-- Flow 2:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 11.976 ms

Loss rate: 9.30%

-- Flow 3:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 12.174 ms

Loss rate: 8.22%

Run 10: Report of WebRTC media — Data Link

