

Pantheon Report

Generated at 2018-05-25 15:40:01 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 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.

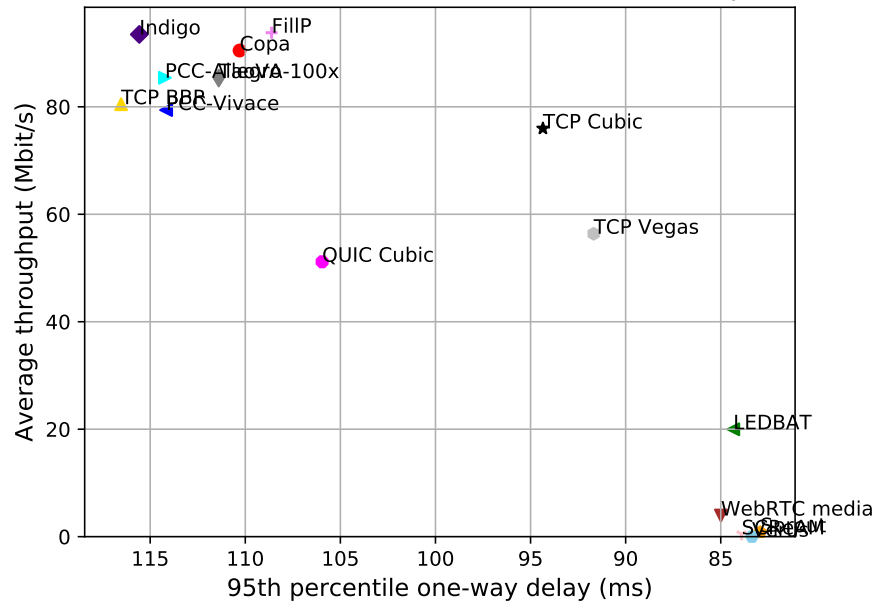
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

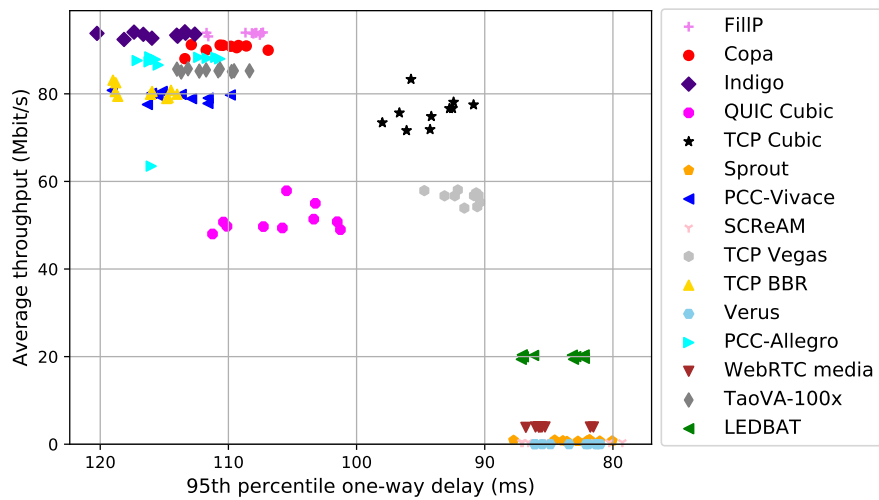
Git summary:

```
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-quic @ 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 Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



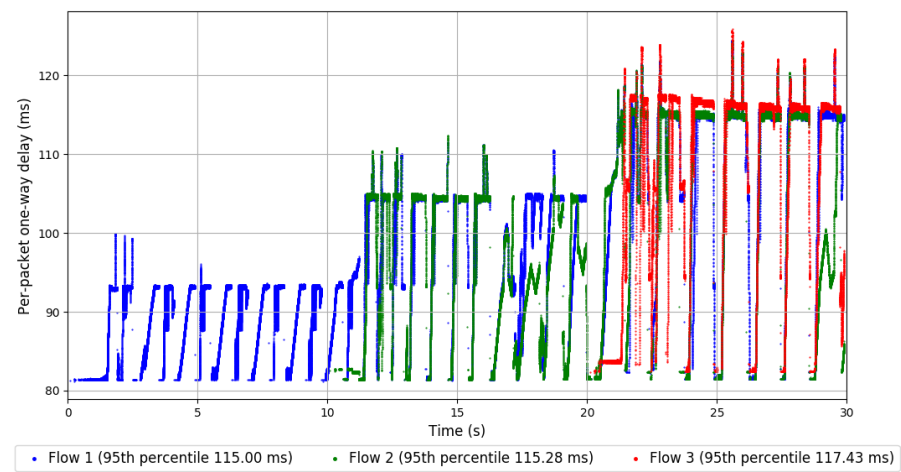
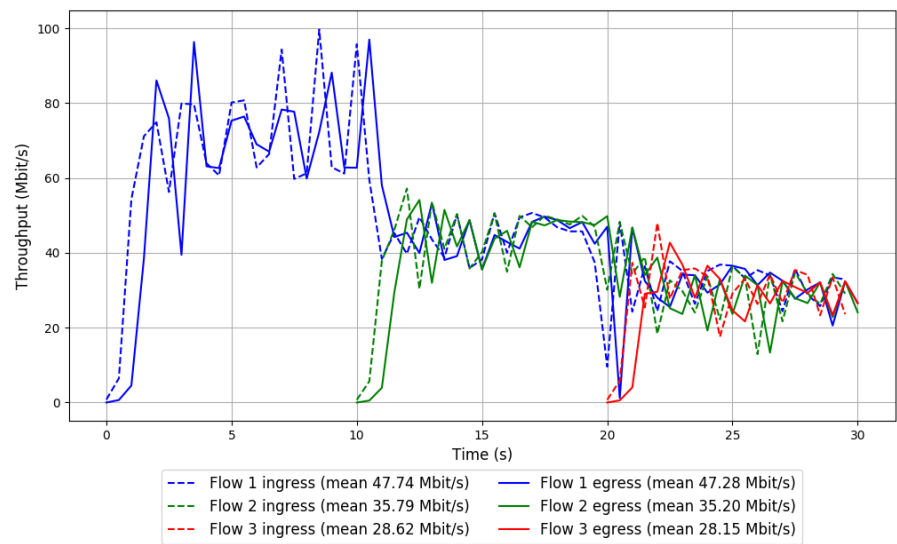
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	47.58	35.62	28.15	116.19	116.08	116.88	1.26	2.31	3.77
Copa	10	56.60	36.58	29.15	109.02	108.49	110.78	1.79	2.45	3.67
TCP Cubic	10	46.86	32.26	23.36	94.13	98.59	104.01	0.39	0.68	1.87
FillP	10	57.96	39.22	29.86	107.38	108.95	109.69	1.55	3.26	4.83
Indigo	10	58.10	38.92	29.42	114.27	116.56	112.58	3.36	1.33	2.50
LEDBAT	10	12.91	8.63	4.12	84.20	84.26	84.03	1.09	1.65	3.33
PCC-Allegro	10	52.20	35.56	29.47	110.62	115.02	115.52	6.46	5.22	4.29
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	28.81	23.71	20.22	102.29	106.56	114.48	0.63	1.17	2.61
SCReAM	10	0.22	0.22	0.22	82.92	83.17	83.65	0.51	0.82	1.61
Sprout	10	0.36	0.43	0.56	82.40	82.31	83.09	0.39	0.86	0.61
TaoVA-100x	10	50.60	37.35	30.20	110.84	111.01	111.25	0.43	0.89	2.04
TCP Vegas	10	33.43	25.02	19.26	90.03	93.55	107.39	0.37	0.88	1.86
Verus	10	0.00	0.00	0.00	82.53	82.94	82.24	0.00	0.00	0.00
PCC-Vivace	10	50.79	31.40	23.80	111.48	115.22	116.44	3.45	2.25	2.76
WebRTC media	10	2.12	1.32	0.51	84.61	84.33	84.86	0.65	0.88	2.89

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 12:16:16
End at: 2018-05-25 12:16:46
Local clock offset: -6.357 ms
Remote clock offset: 13.596 ms

Below is generated by plot.py at 2018-05-25 15:25:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.90 Mbit/s
95th percentile per-packet one-way delay: 116.084 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 115.004 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 115.277 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 117.432 ms
Loss rate: 2.70%

Run 1: Report of TCP BBR — Data Link

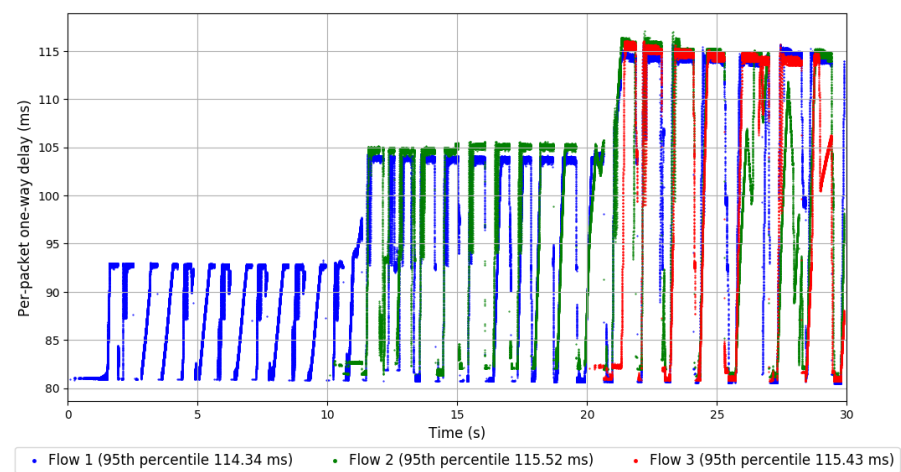
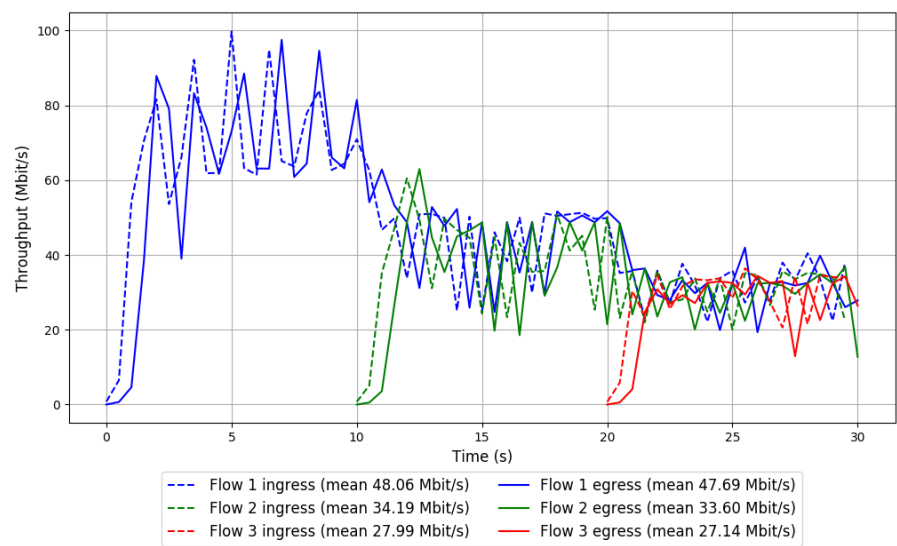


Run 2: Statistics of TCP BBR

Start at: 2018-05-25 12:35:55
End at: 2018-05-25 12:36:25
Local clock offset: -6.511 ms
Remote clock offset: 16.267 ms

Below is generated by plot.py at 2018-05-25 15:25:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.94 Mbit/s
95th percentile per-packet one-way delay: 114.810 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 47.69 Mbit/s
95th percentile per-packet one-way delay: 114.338 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 33.60 Mbit/s
95th percentile per-packet one-way delay: 115.524 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 115.434 ms
Loss rate: 4.64%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-25 12:55:34

End at: 2018-05-25 12:56:04

Local clock offset: -6.792 ms

Remote clock offset: 8.376 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 114.704 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 114.436 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 114.465 ms

Loss rate: 2.52%

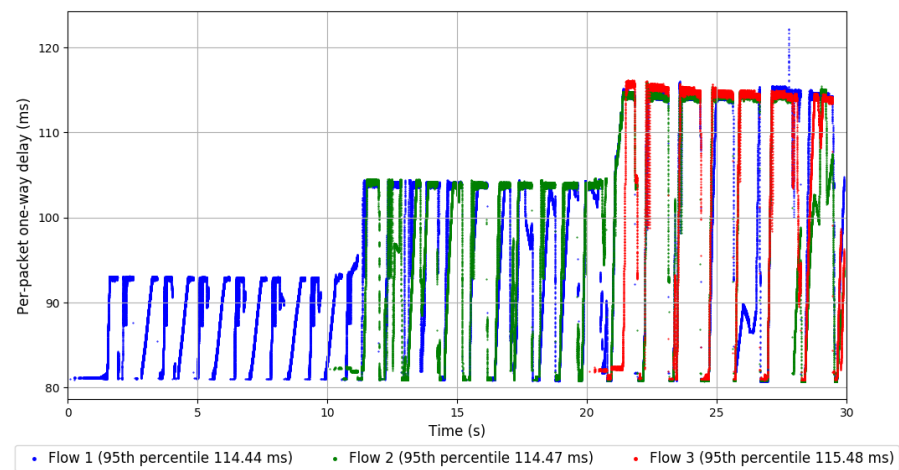
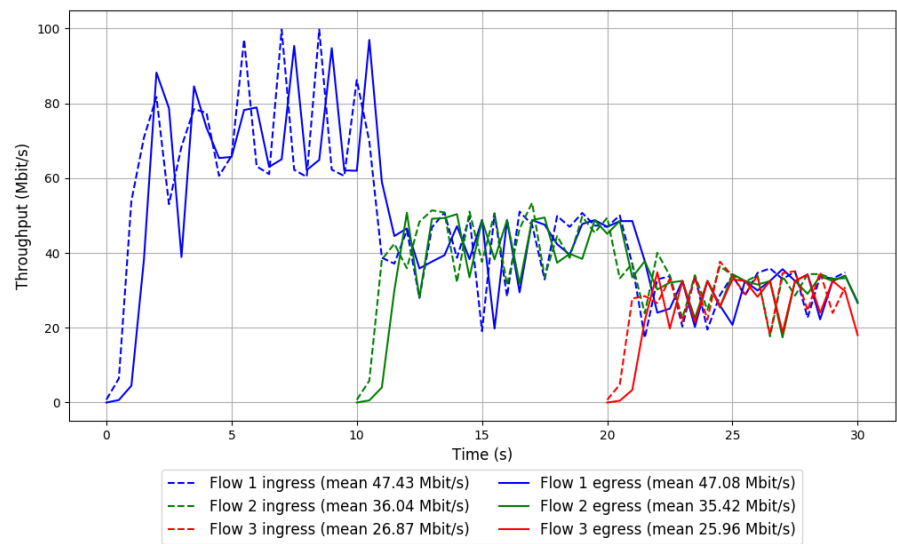
-- Flow 3:

Average throughput: 25.96 Mbit/s

95th percentile per-packet one-way delay: 115.483 ms

Loss rate: 4.97%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

End at: 2018-05-25 13:15:43

Local clock offset: -1.687 ms

Remote clock offset: 2.968 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 118.784 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 50.56 Mbit/s

95th percentile per-packet one-way delay: 118.948 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 118.226 ms

Loss rate: 2.14%

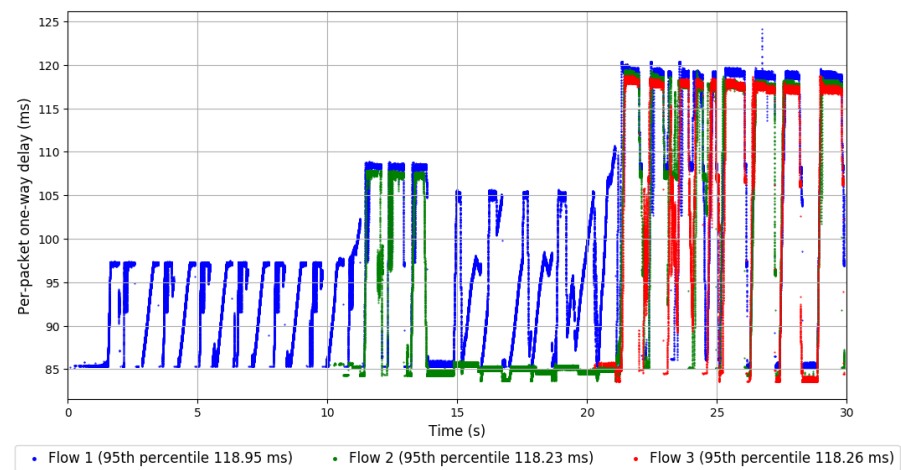
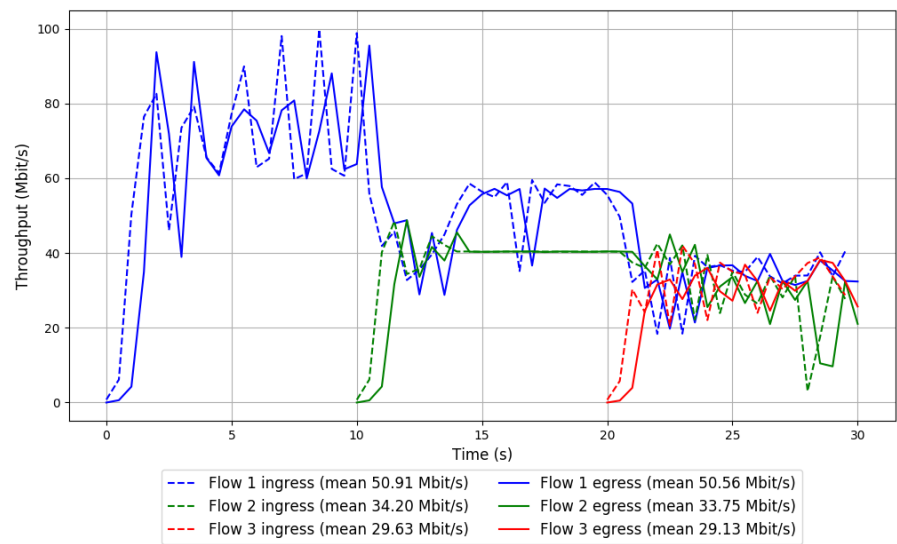
-- Flow 3:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 118.256 ms

Loss rate: 3.35%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 13:34:52

End at: 2018-05-25 13:35:22

Local clock offset: 0.478 ms

Remote clock offset: 2.89 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 119.006 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 120.099 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 39.90 Mbit/s

95th percentile per-packet one-way delay: 118.255 ms

Loss rate: 2.21%

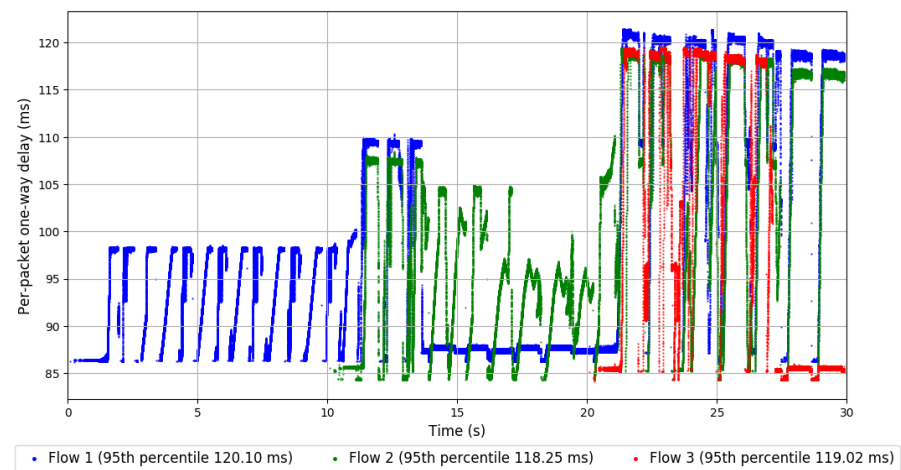
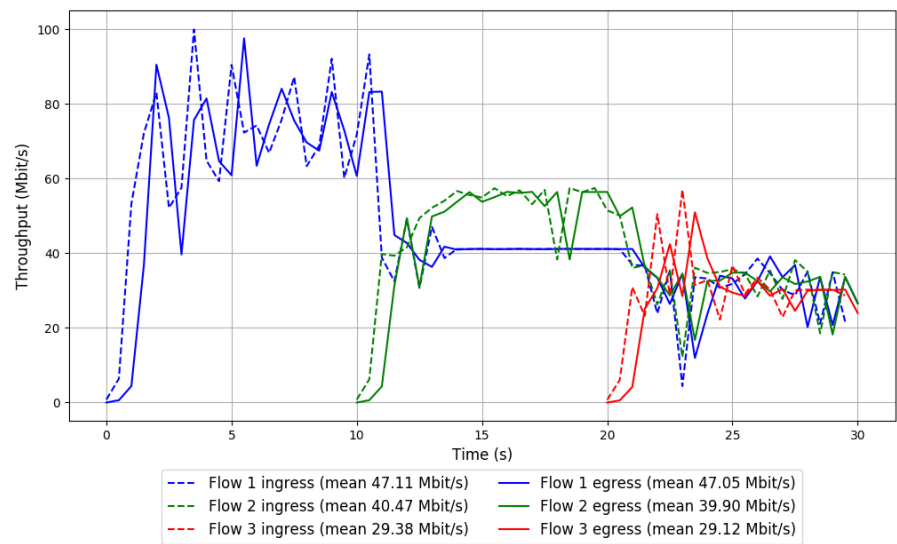
-- Flow 3:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 119.024 ms

Loss rate: 2.52%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 13:54:31

End at: 2018-05-25 13:55:01

Local clock offset: 0.004 ms

Remote clock offset: 7.306 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.92 Mbit/s

95th percentile per-packet one-way delay: 114.002 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 114.342 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 113.107 ms

Loss rate: 2.23%

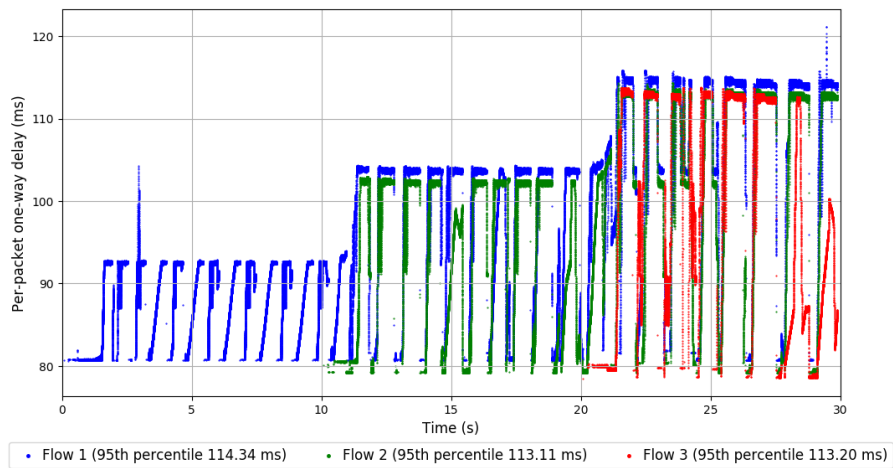
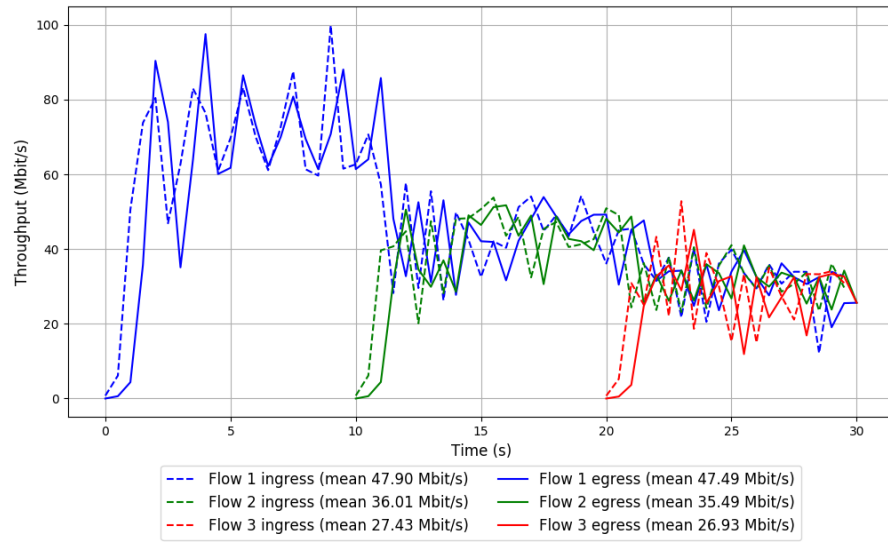
-- Flow 3:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 113.203 ms

Loss rate: 3.43%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 14:14:09

End at: 2018-05-25 14:14:39

Local clock offset: -6.668 ms

Remote clock offset: 8.195 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 114.483 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 113.926 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 114.476 ms

Loss rate: 2.32%

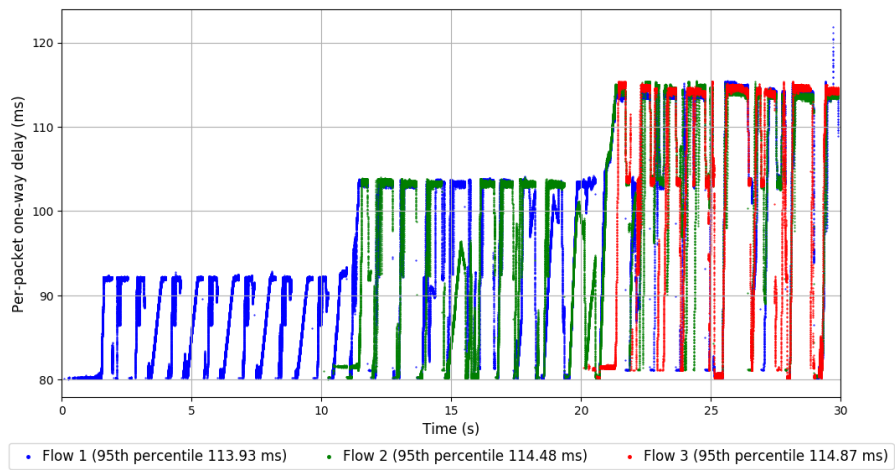
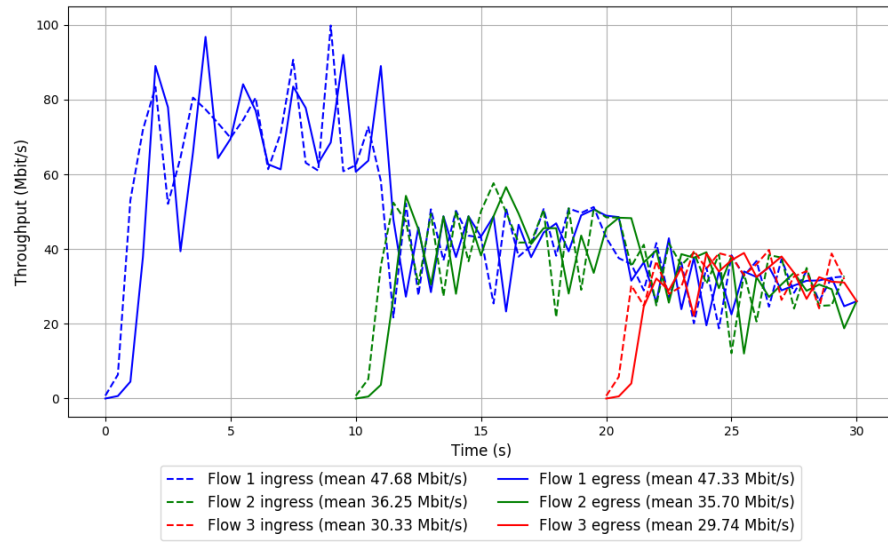
-- Flow 3:

Average throughput: 29.74 Mbit/s

95th percentile per-packet one-way delay: 114.866 ms

Loss rate: 3.53%

Run 7: Report of TCP BBR — Data Link

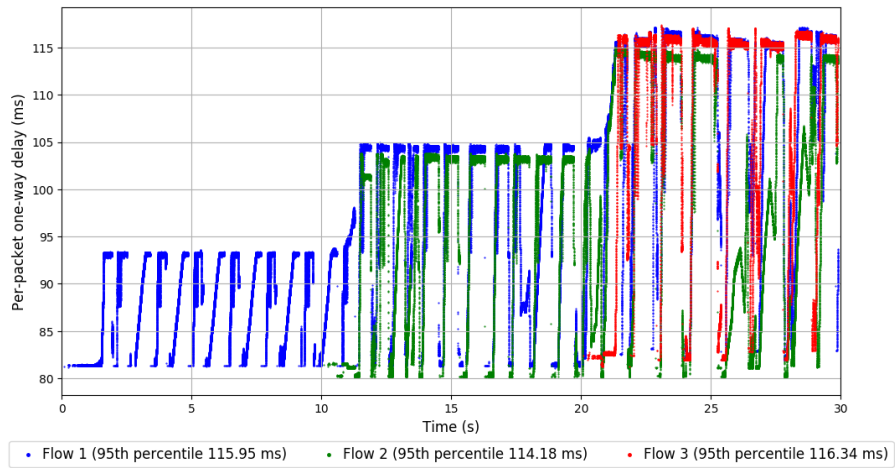
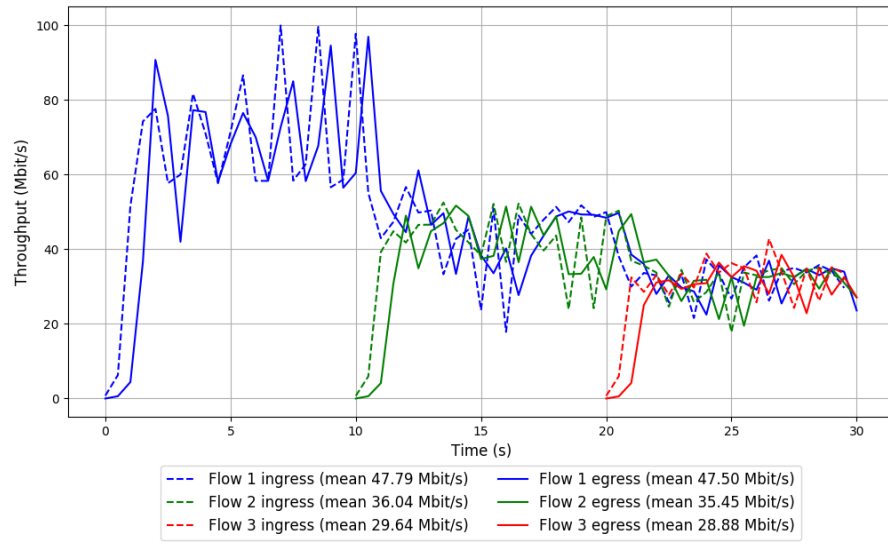


Run 8: Statistics of TCP BBR

Start at: 2018-05-25 14:33:48
End at: 2018-05-25 14:34:18
Local clock offset: -4.635 ms
Remote clock offset: 15.408 ms

Below is generated by plot.py at 2018-05-25 15:25:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.55 Mbit/s
95th percentile per-packet one-way delay: 115.955 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 115.947 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 114.182 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 116.345 ms
Loss rate: 4.29%

Run 8: Report of TCP BBR — Data Link

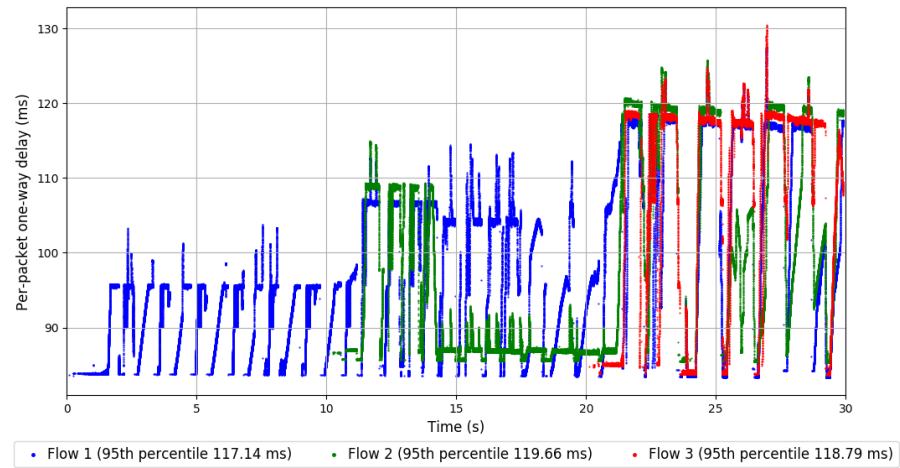
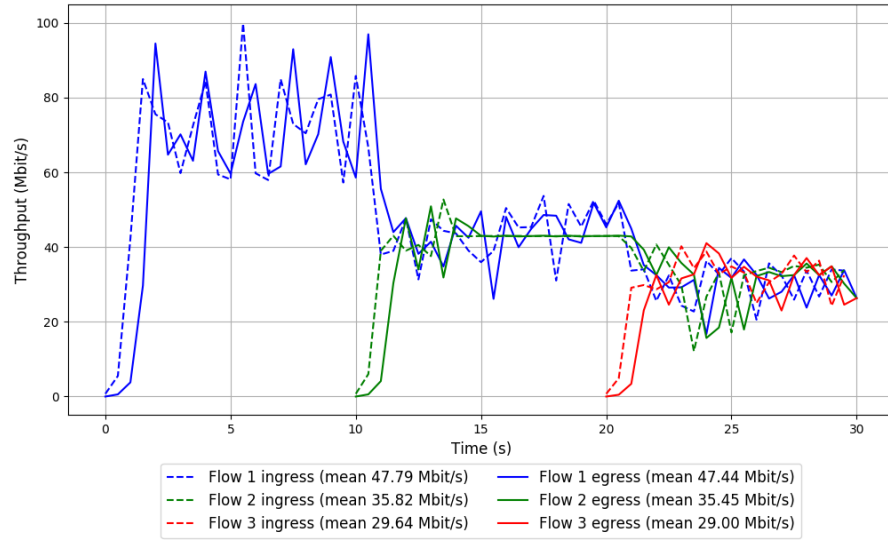


Run 9: Statistics of TCP BBR

Start at: 2018-05-25 14:53:26
End at: 2018-05-25 14:53:56
Local clock offset: -3.464 ms
Remote clock offset: 11.268 ms

Below is generated by plot.py at 2018-05-25 15:26:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 118.829 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 47.44 Mbit/s
95th percentile per-packet one-way delay: 117.135 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 119.662 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 29.00 Mbit/s
95th percentile per-packet one-way delay: 118.787 ms
Loss rate: 3.77%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

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

End at: 2018-05-25 15:13:35

Local clock offset: -3.105 ms

Remote clock offset: 4.414 ms

Below is generated by plot.py at 2018-05-25 15:26:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 118.632 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 117.737 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 117.584 ms

Loss rate: 2.42%

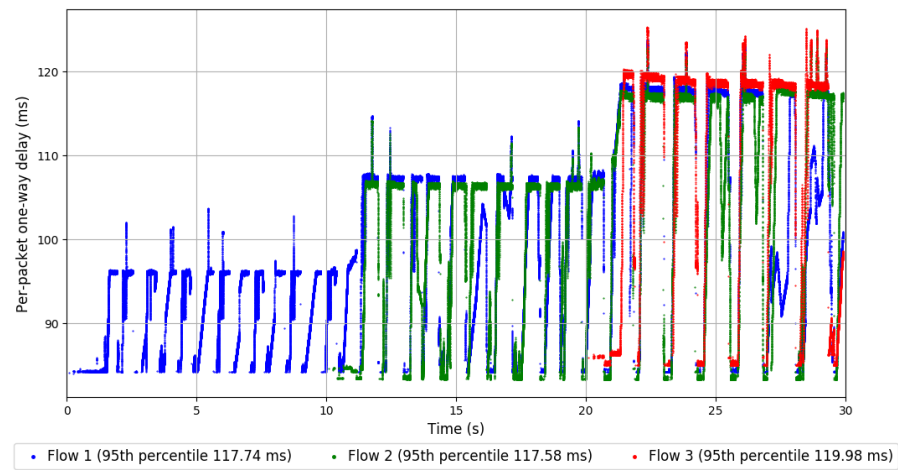
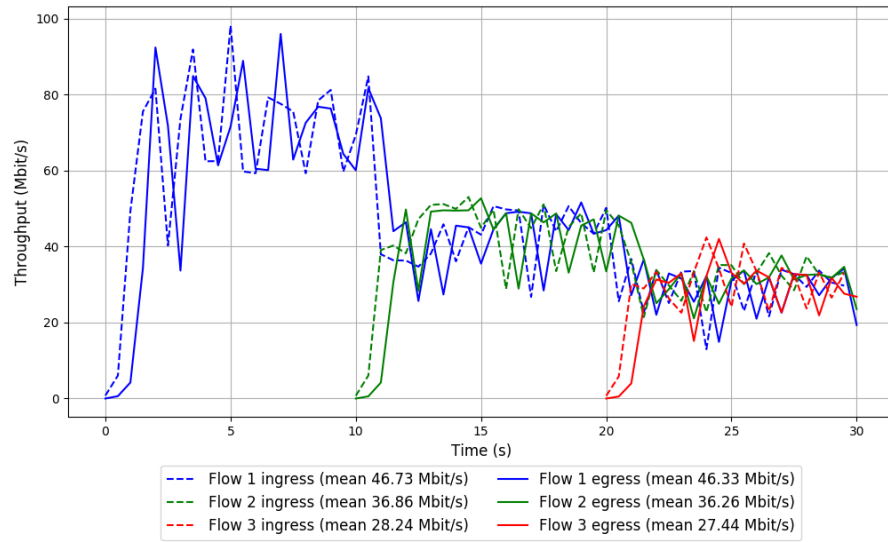
-- Flow 3:

Average throughput: 27.44 Mbit/s

95th percentile per-packet one-way delay: 119.982 ms

Loss rate: 4.46%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-25 12:13:48

End at: 2018-05-25 12:14:18

Local clock offset: -6.889 ms

Remote clock offset: 9.044 ms

Below is generated by plot.py at 2018-05-25 15:27:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.00 Mbit/s

95th percentile per-packet one-way delay: 111.732 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 56.63 Mbit/s

95th percentile per-packet one-way delay: 110.719 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 36.08 Mbit/s

95th percentile per-packet one-way delay: 111.019 ms

Loss rate: 2.29%

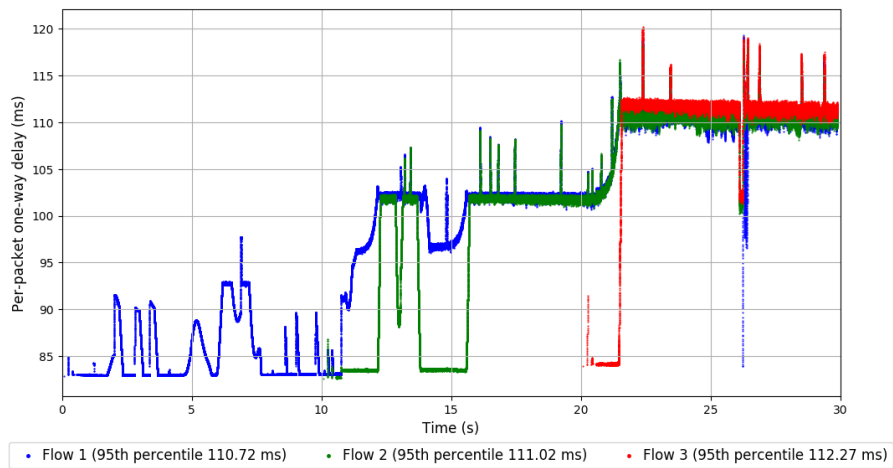
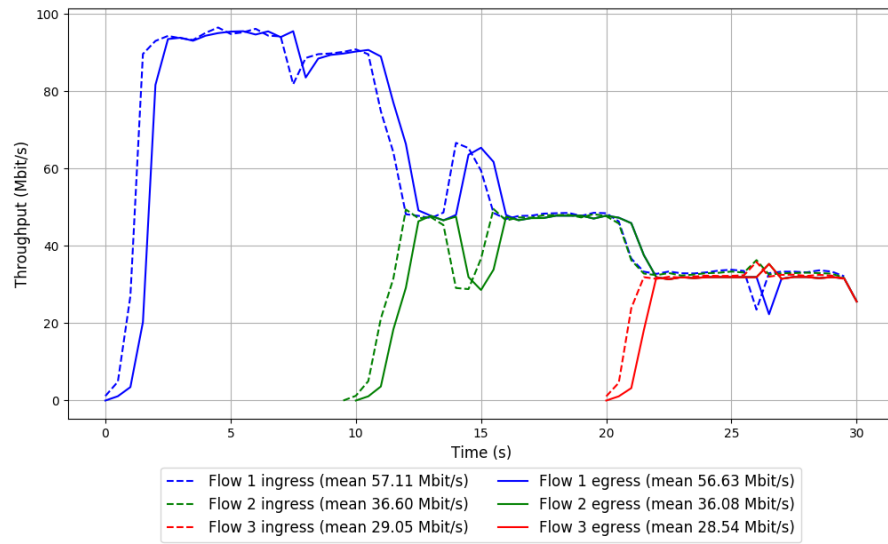
-- Flow 3:

Average throughput: 28.54 Mbit/s

95th percentile per-packet one-way delay: 112.265 ms

Loss rate: 3.33%

Run 1: Report of Copa — Data Link

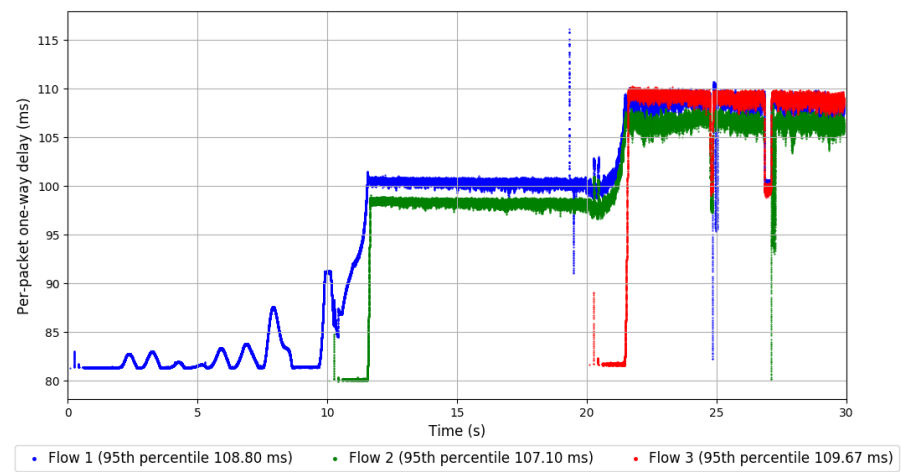
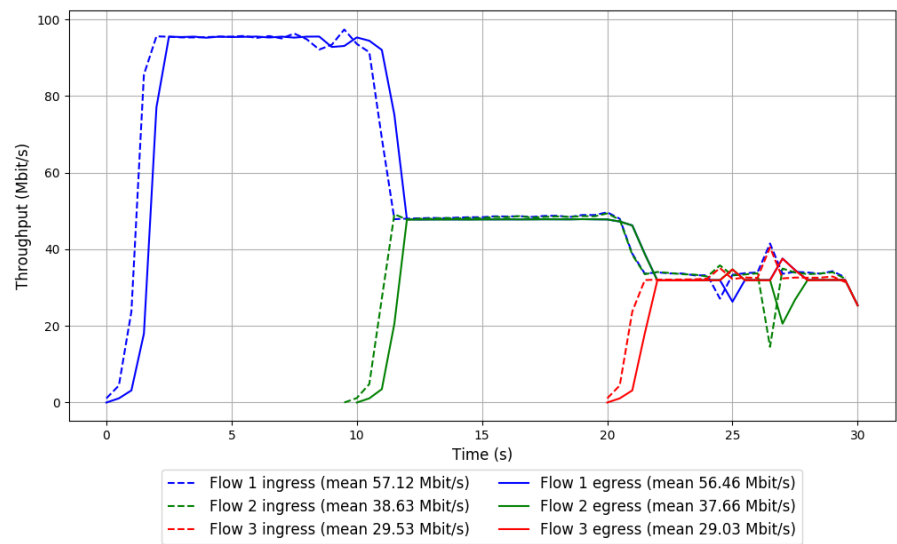


Run 2: Statistics of Copa

Start at: 2018-05-25 12:33:27
End at: 2018-05-25 12:33:57
Local clock offset: -8.091 ms
Remote clock offset: 15.519 ms

Below is generated by plot.py at 2018-05-25 15:27:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 109.215 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 108.801 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 107.099 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: 109.670 ms
Loss rate: 3.43%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2018-05-25 12:53:35

Local clock offset: -7.501 ms

Remote clock offset: 8.032 ms

Below is generated by plot.py at 2018-05-25 15:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.07 Mbit/s

95th percentile per-packet one-way delay: 110.438 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 106.465 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 109.646 ms

Loss rate: 1.67%

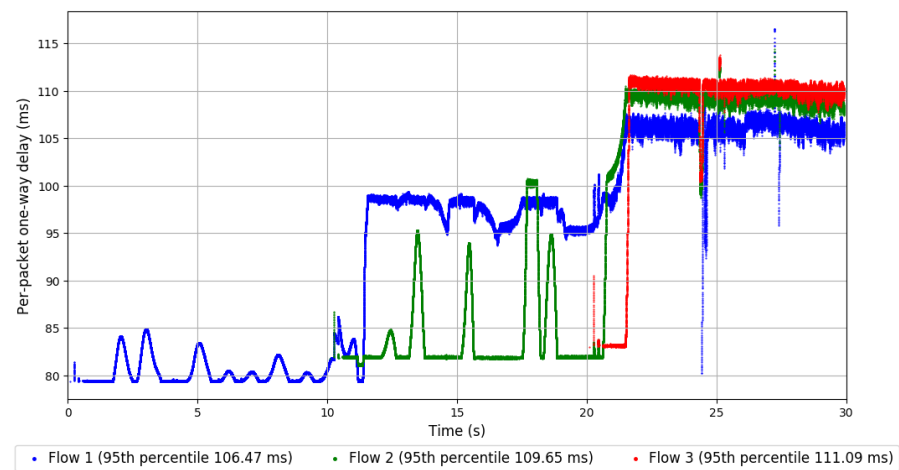
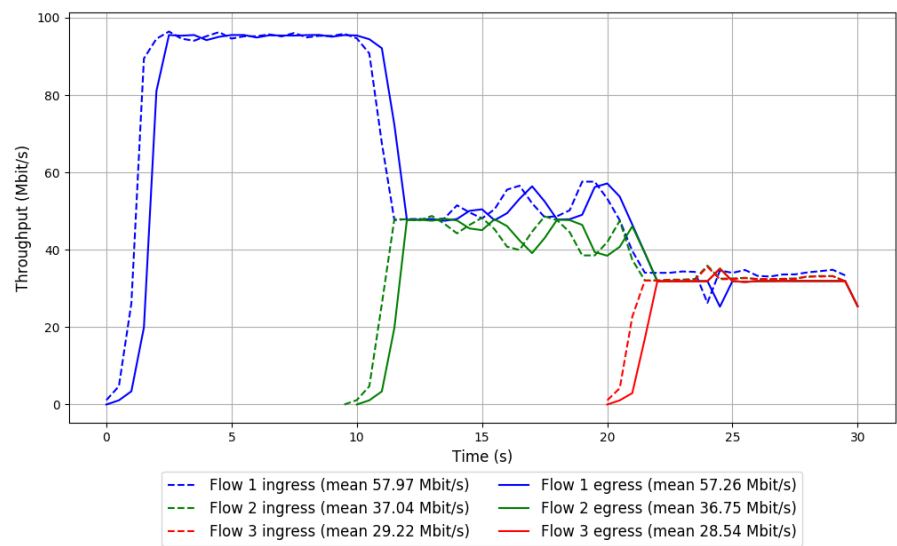
-- Flow 3:

Average throughput: 28.54 Mbit/s

95th percentile per-packet one-way delay: 111.088 ms

Loss rate: 3.94%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 13:12:44

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

Local clock offset: -1.989 ms

Remote clock offset: 6.654 ms

Below is generated by plot.py at 2018-05-25 15:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 109.817 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 109.277 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 37.44 Mbit/s

95th percentile per-packet one-way delay: 108.128 ms

Loss rate: 3.78%

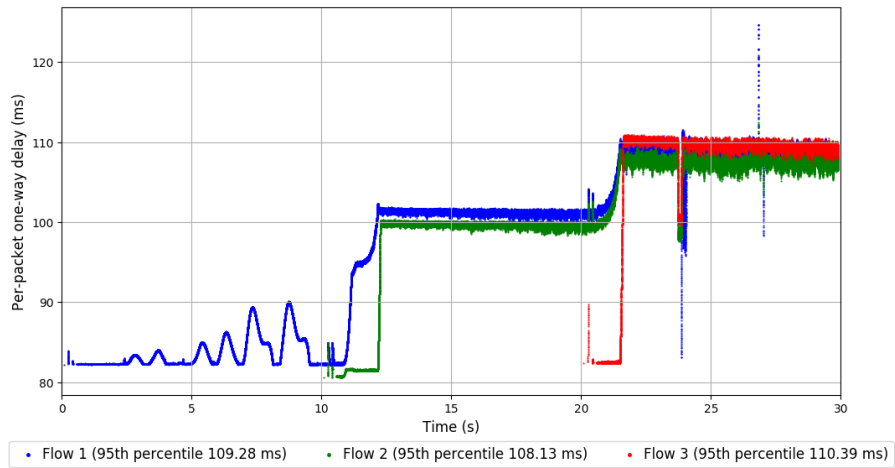
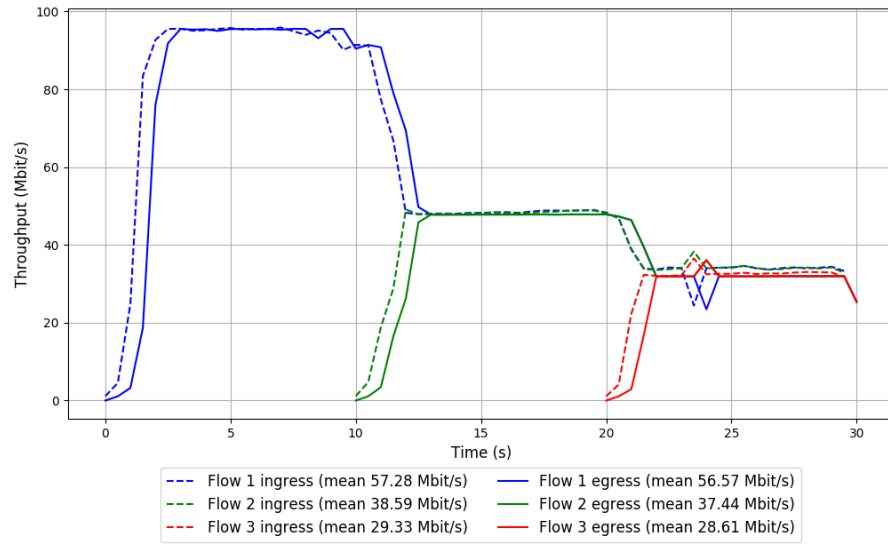
-- Flow 3:

Average throughput: 28.61 Mbit/s

95th percentile per-packet one-way delay: 110.395 ms

Loss rate: 4.04%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-25 13:32:23

End at: 2018-05-25 13:32:53

Local clock offset: 0.387 ms

Remote clock offset: 7.521 ms

Below is generated by plot.py at 2018-05-25 15:27:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 108.604 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 107.223 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 107.659 ms

Loss rate: 3.33%

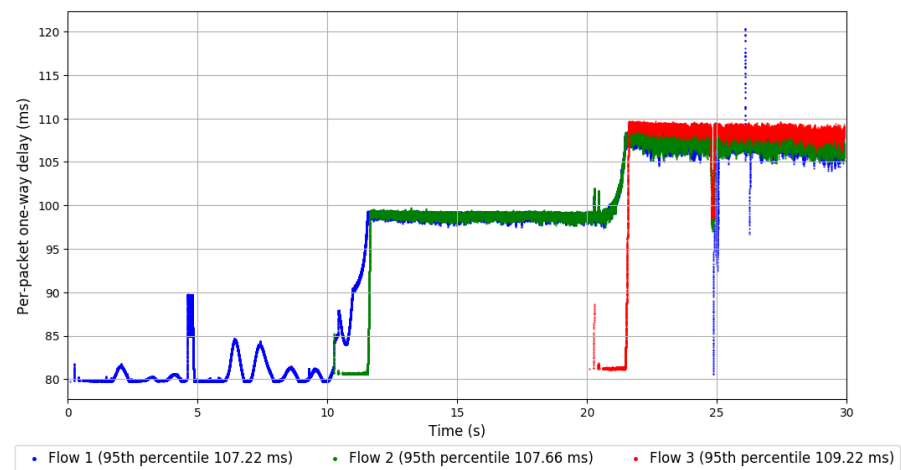
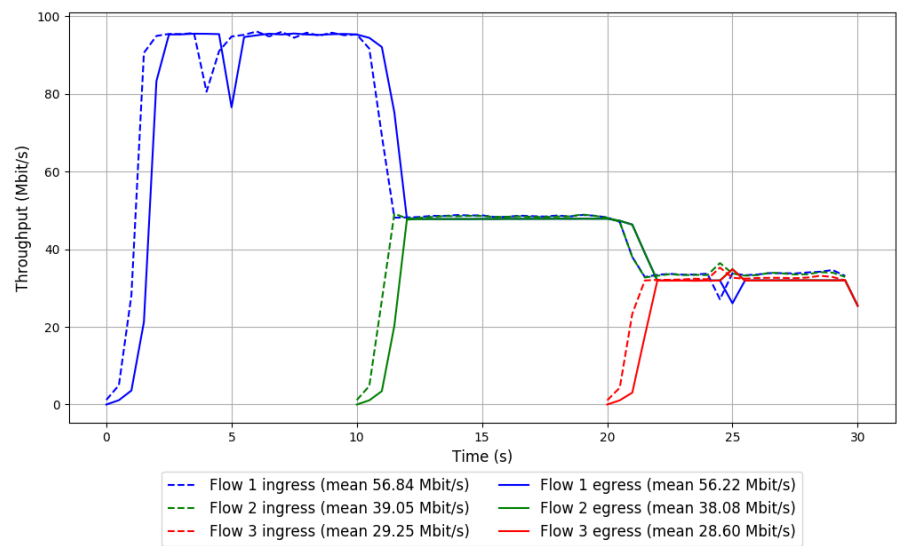
-- Flow 3:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 109.215 ms

Loss rate: 3.81%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-25 13:52:02

End at: 2018-05-25 13:52:32

Local clock offset: 0.598 ms

Remote clock offset: 3.398 ms

Below is generated by plot.py at 2018-05-25 15:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 112.894 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 113.199 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 111.494 ms

Loss rate: 3.01%

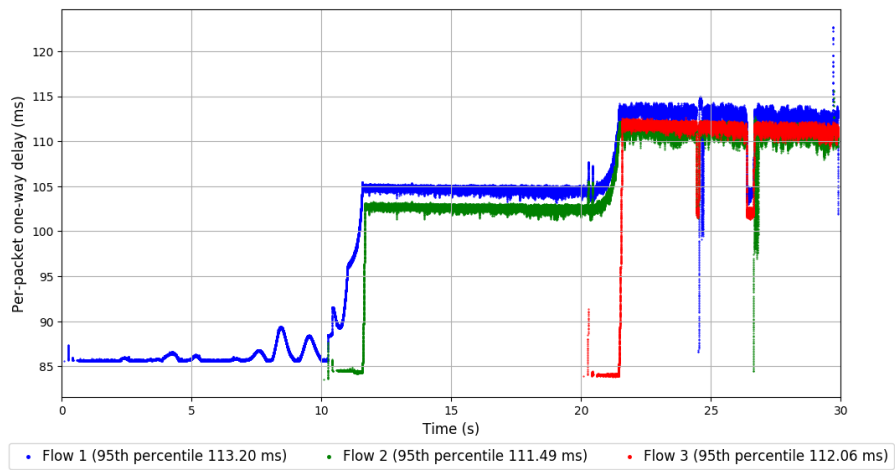
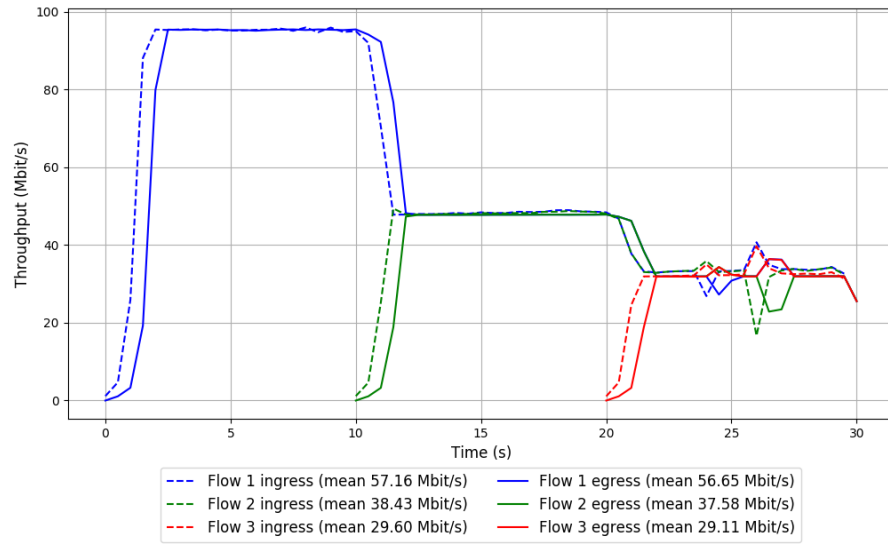
-- Flow 3:

Average throughput: 29.11 Mbit/s

95th percentile per-packet one-way delay: 112.063 ms

Loss rate: 3.36%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 14:11:41

End at: 2018-05-25 14:12:11

Local clock offset: -6.162 ms

Remote clock offset: 4.428 ms

Below is generated by plot.py at 2018-05-25 15:28:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 113.394 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 111.590 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 113.986 ms

Loss rate: 3.18%

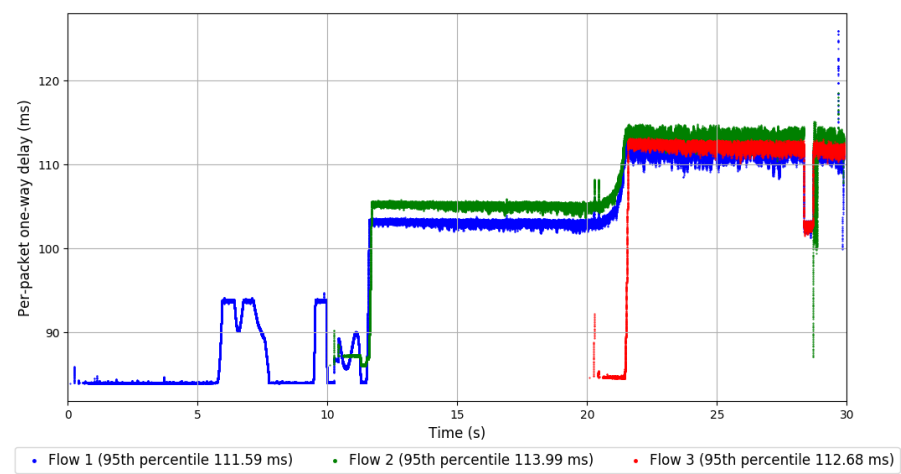
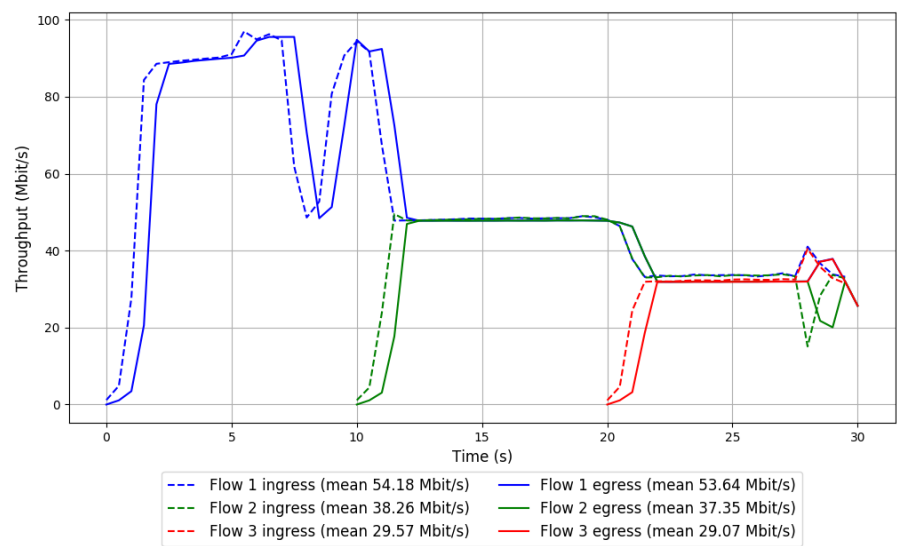
-- Flow 3:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 112.678 ms

Loss rate: 3.42%

Run 7: Report of Copa — Data Link

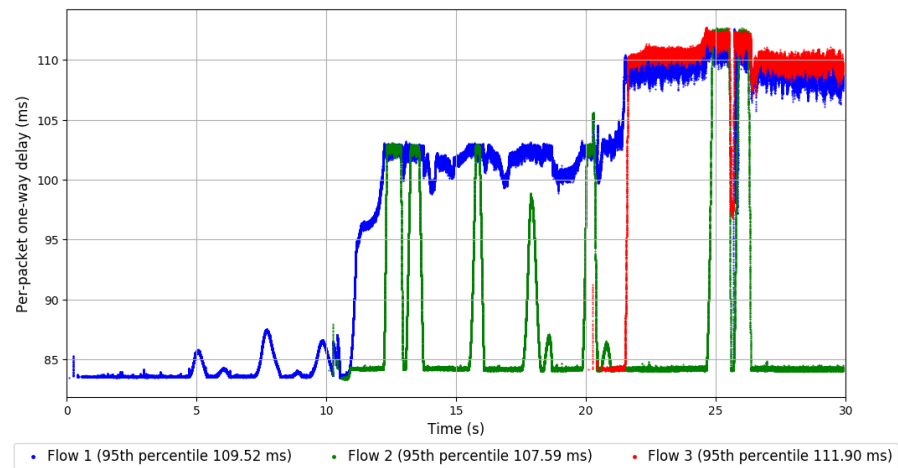
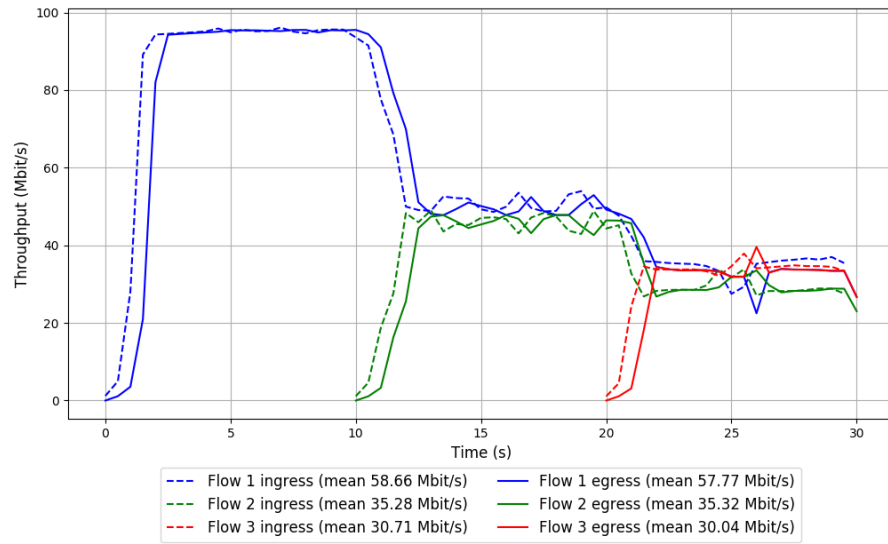


Run 8: Statistics of Copa

Start at: 2018-05-25 14:31:19
End at: 2018-05-25 14:31:49
Local clock offset: -6.15 ms
Remote clock offset: 10.224 ms

Below is generated by plot.py at 2018-05-25 15:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 110.648 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 57.77 Mbit/s
95th percentile per-packet one-way delay: 109.520 ms
Loss rate: 2.09%
-- Flow 2:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 107.593 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 111.902 ms
Loss rate: 3.78%

Run 8: Report of Copa — Data Link

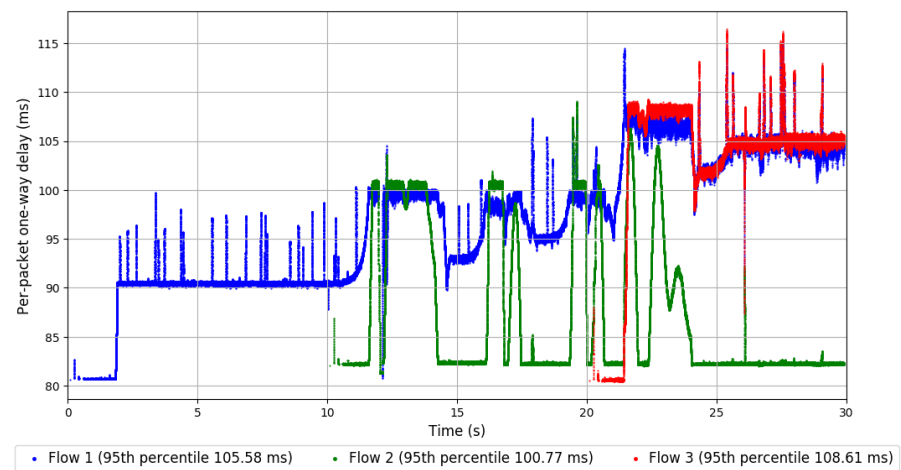
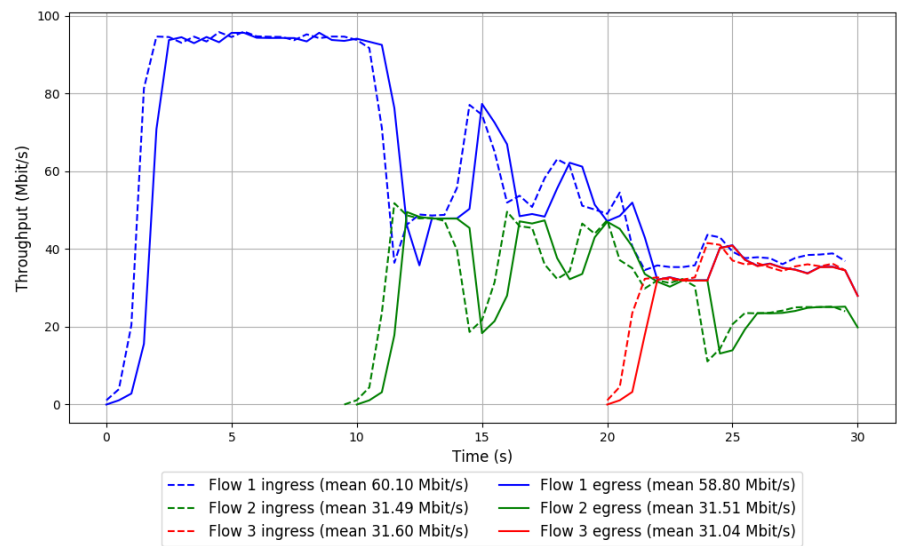


Run 9: Statistics of Copa

Start at: 2018-05-25 14:50:58
End at: 2018-05-25 14:51:28
Local clock offset: -3.523 ms
Remote clock offset: 17.365 ms

Below is generated by plot.py at 2018-05-25 15:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 106.898 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 58.80 Mbit/s
95th percentile per-packet one-way delay: 105.584 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 100.774 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 108.615 ms
Loss rate: 3.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

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

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

Local clock offset: -2.357 ms

Remote clock offset: 8.512 ms

Below is generated by plot.py at 2018-05-25 15:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 109.354 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 107.860 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 107.490 ms

Loss rate: 2.36%

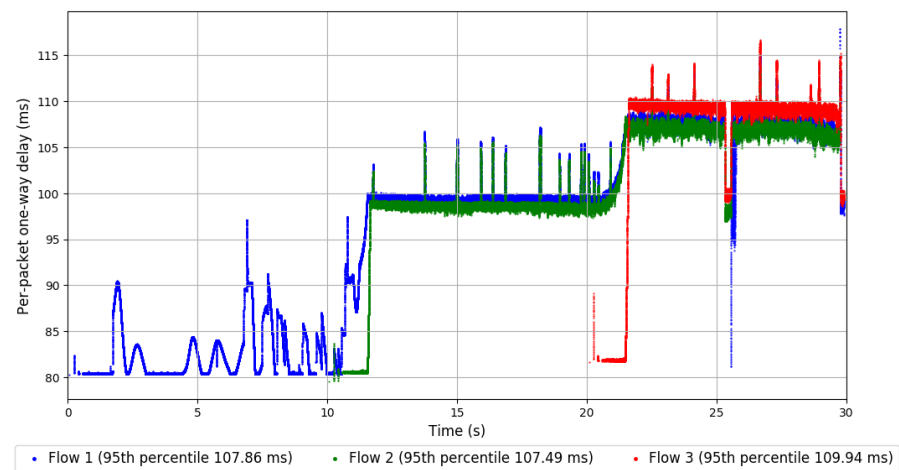
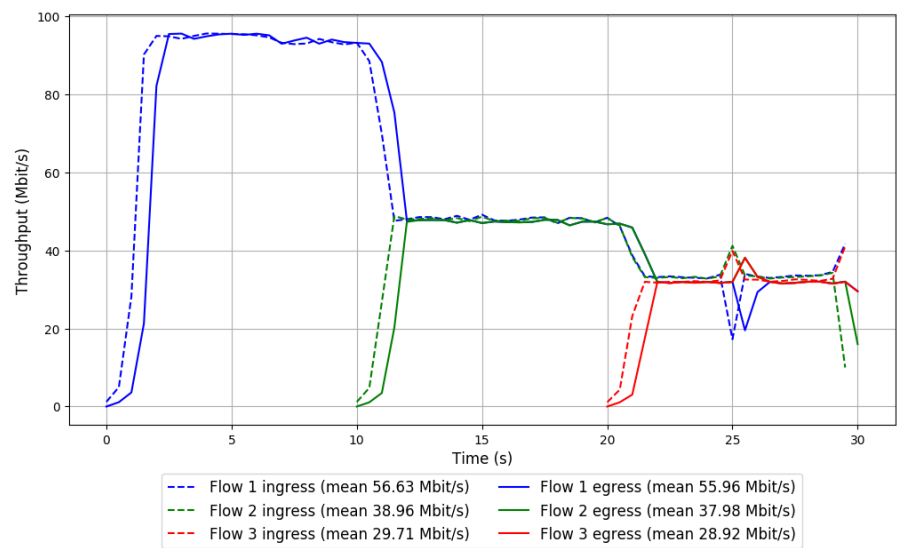
-- Flow 3:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 109.937 ms

Loss rate: 4.25%

Run 10: Report of Copa — Data Link

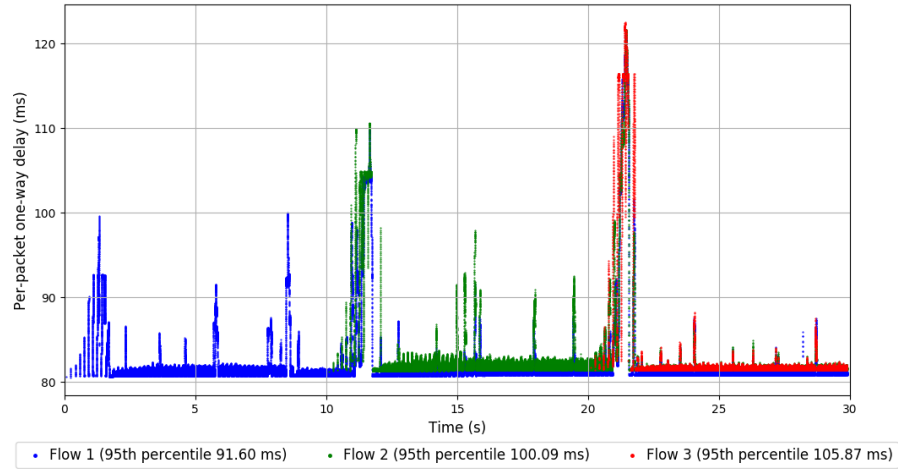
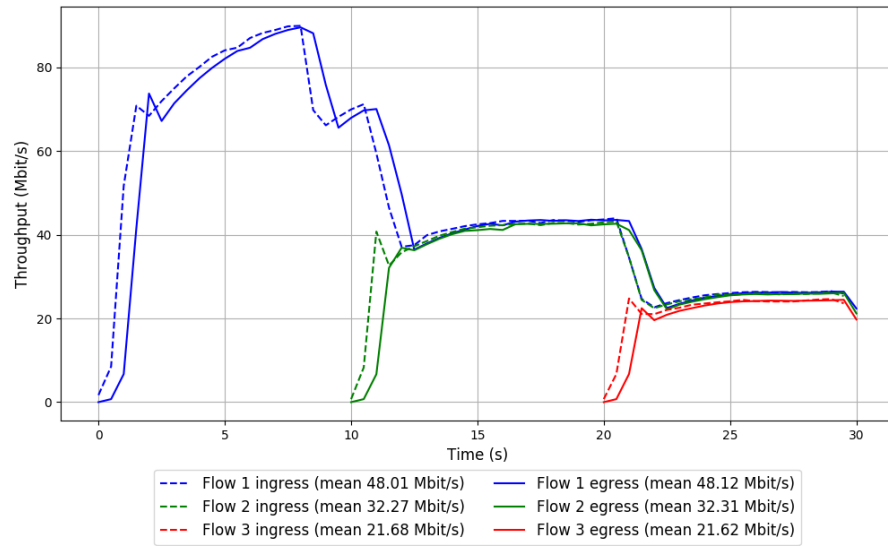


Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 12:12:33
End at: 2018-05-25 12:13:03
Local clock offset: -6.012 ms
Remote clock offset: 13.426 ms

Below is generated by plot.py at 2018-05-25 15:29:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.68 Mbit/s
95th percentile per-packet one-way delay: 92.512 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 48.12 Mbit/s
95th percentile per-packet one-way delay: 91.596 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 100.092 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 105.871 ms
Loss rate: 1.92%

Run 1: Report of TCP Cubic — Data Link

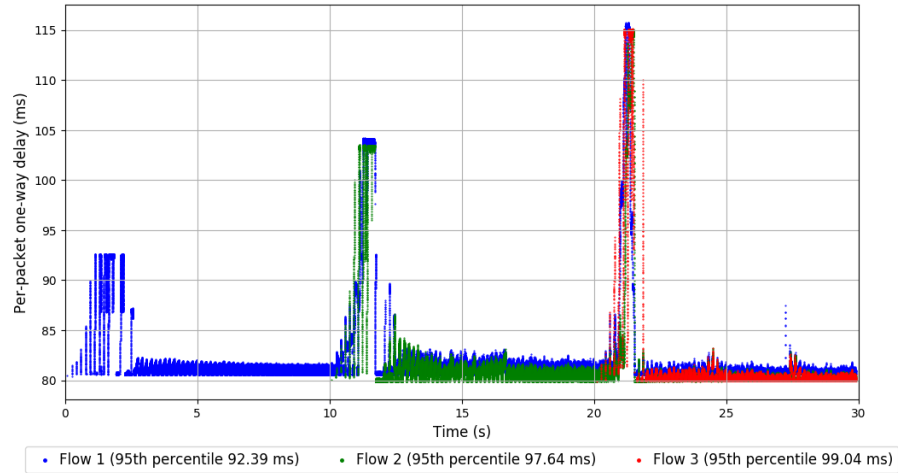
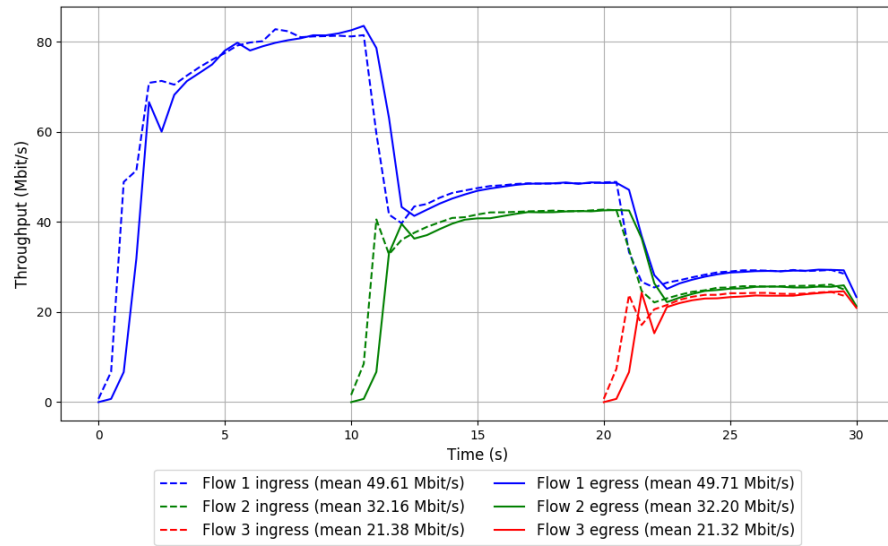


Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 12:32:12
End at: 2018-05-25 12:32:42
Local clock offset: -7.356 ms
Remote clock offset: 16.981 ms

Below is generated by plot.py at 2018-05-25 15:29:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.11 Mbit/s
95th percentile per-packet one-way delay: 92.433 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 92.386 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 97.637 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 99.044 ms
Loss rate: 1.91%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 12:51:51

End at: 2018-05-25 12:52:21

Local clock offset: -7.457 ms

Remote clock offset: 8.988 ms

Below is generated by plot.py at 2018-05-25 15:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.50 Mbit/s

95th percentile per-packet one-way delay: 90.874 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 48.44 Mbit/s

95th percentile per-packet one-way delay: 90.439 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 94.764 ms

Loss rate: 0.74%

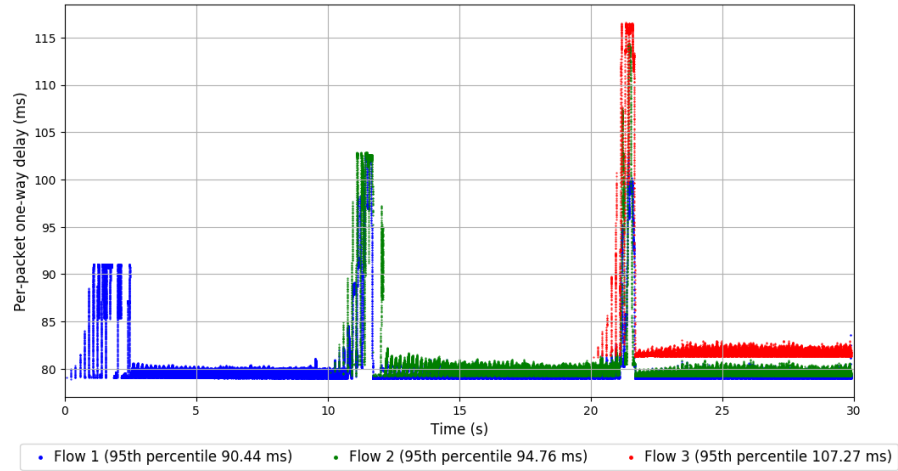
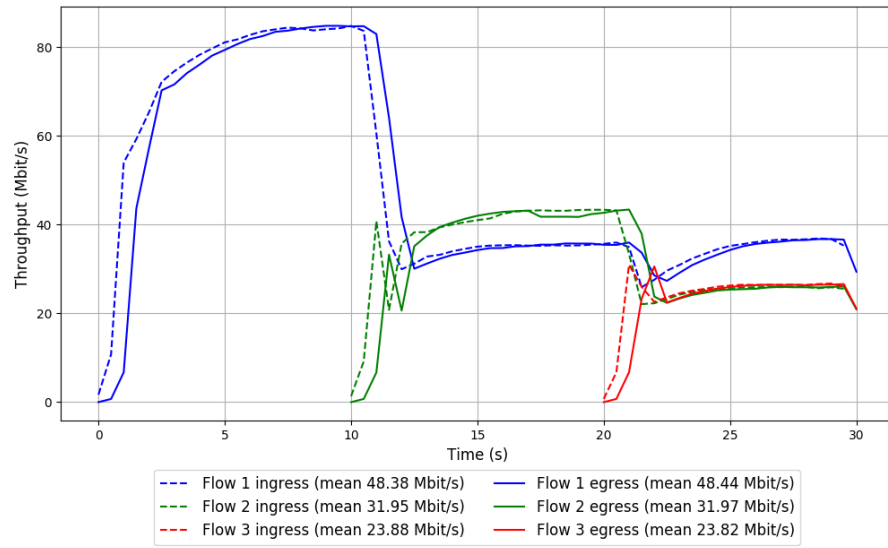
-- Flow 3:

Average throughput: 23.82 Mbit/s

95th percentile per-packet one-way delay: 107.269 ms

Loss rate: 1.89%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 13:11:30

End at: 2018-05-25 13:12:00

Local clock offset: -2.184 ms

Remote clock offset: 3.714 ms

Below is generated by plot.py at 2018-05-25 15:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 96.658 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 47.36 Mbit/s

95th percentile per-packet one-way delay: 96.511 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 102.594 ms

Loss rate: 0.67%

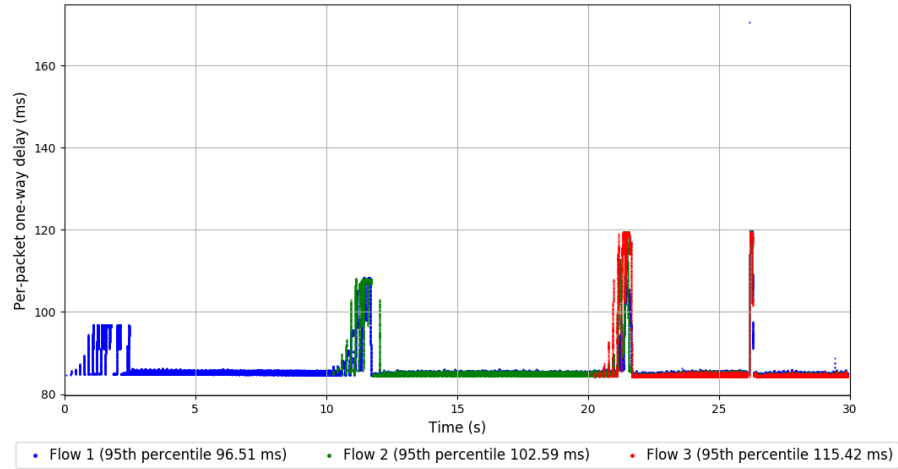
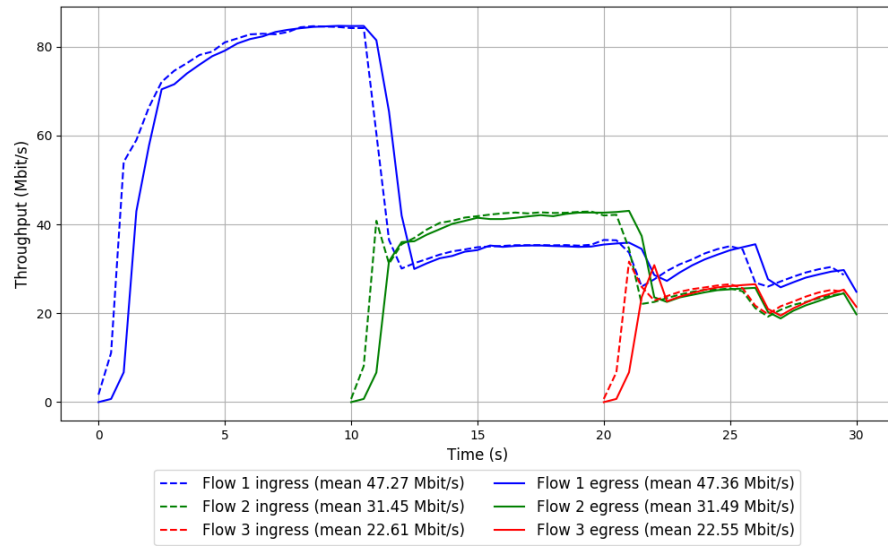
-- Flow 3:

Average throughput: 22.55 Mbit/s

95th percentile per-packet one-way delay: 115.417 ms

Loss rate: 1.91%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 13:31:09

End at: 2018-05-25 13:31:39

Local clock offset: 0.322 ms

Remote clock offset: 6.713 ms

Below is generated by plot.py at 2018-05-25 15:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 94.265 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 94.231 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 94.973 ms

Loss rate: 0.69%

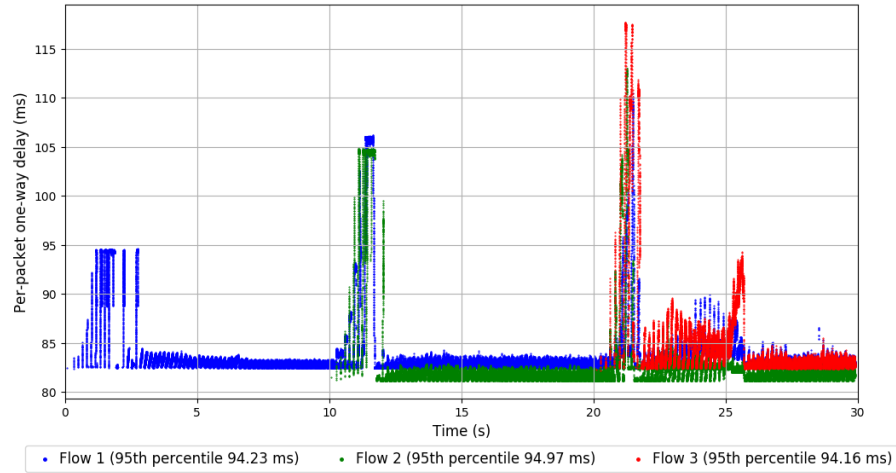
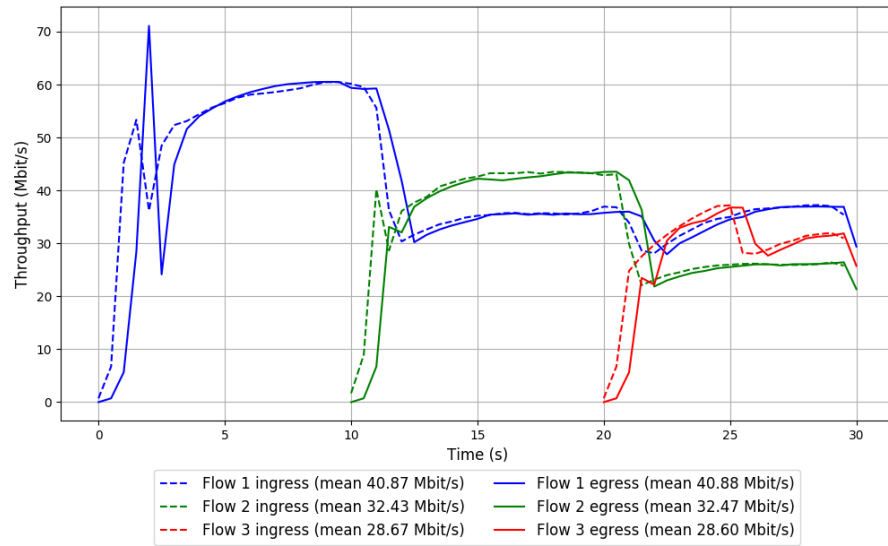
-- Flow 3:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 94.155 ms

Loss rate: 1.87%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 13:50:48

End at: 2018-05-25 13:51:18

Local clock offset: 1.356 ms

Remote clock offset: 4.082 ms

Below is generated by plot.py at 2018-05-25 15:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.32 Mbit/s

95th percentile per-packet one-way delay: 95.755 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 52.17 Mbit/s

95th percentile per-packet one-way delay: 95.501 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 96.817 ms

Loss rate: 0.69%

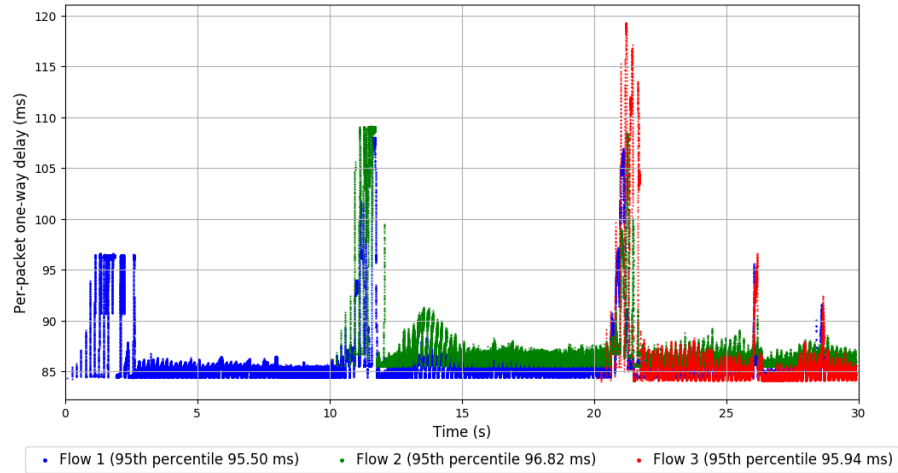
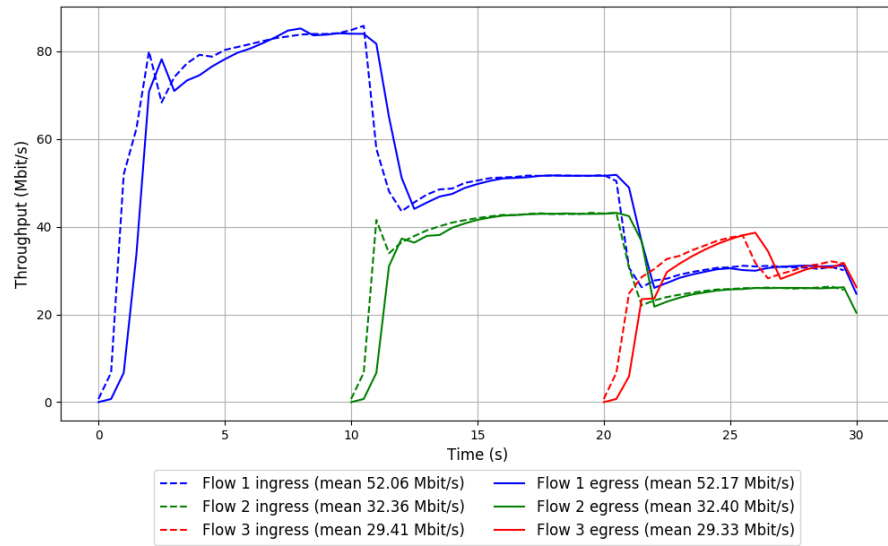
-- Flow 3:

Average throughput: 29.33 Mbit/s

95th percentile per-packet one-way delay: 95.945 ms

Loss rate: 1.86%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 14:10:27

End at: 2018-05-25 14:10:57

Local clock offset: -5.864 ms

Remote clock offset: 7.581 ms

Below is generated by plot.py at 2018-05-25 15:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.84 Mbit/s

95th percentile per-packet one-way delay: 94.168 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 93.960 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 99.577 ms

Loss rate: 0.60%

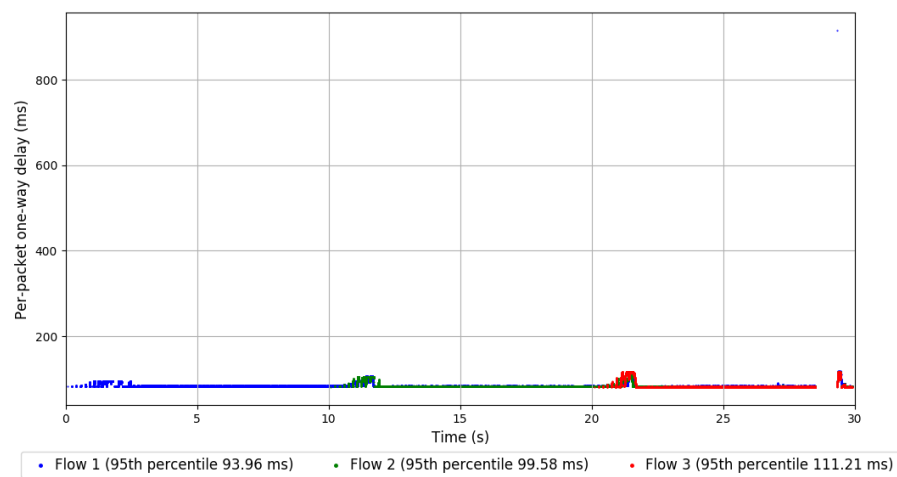
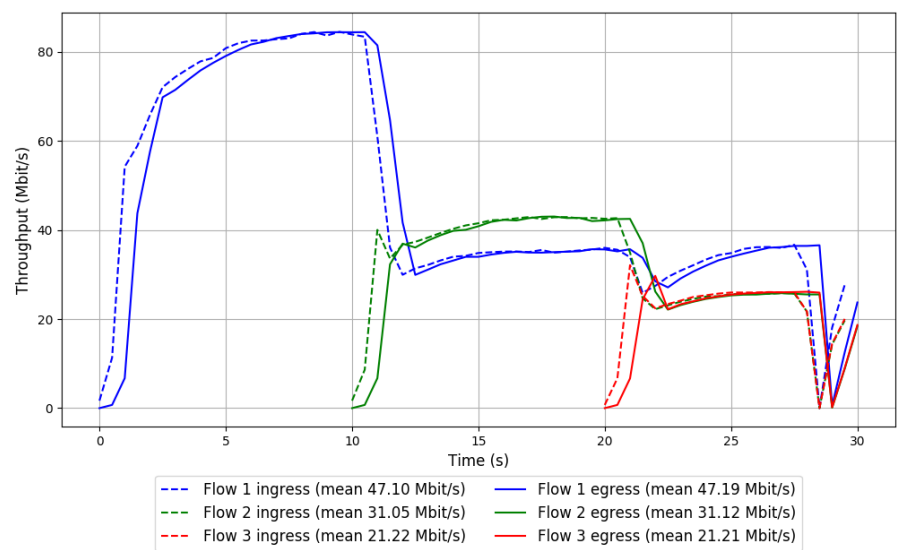
-- Flow 3:

Average throughput: 21.21 Mbit/s

95th percentile per-packet one-way delay: 111.207 ms

Loss rate: 1.65%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

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

Local clock offset: -6.591 ms

Remote clock offset: 9.035 ms

Below is generated by plot.py at 2018-05-25 15:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.62 Mbit/s

95th percentile per-packet one-way delay: 96.100 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 41.76 Mbit/s

95th percentile per-packet one-way delay: 96.058 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 98.660 ms

Loss rate: 0.68%

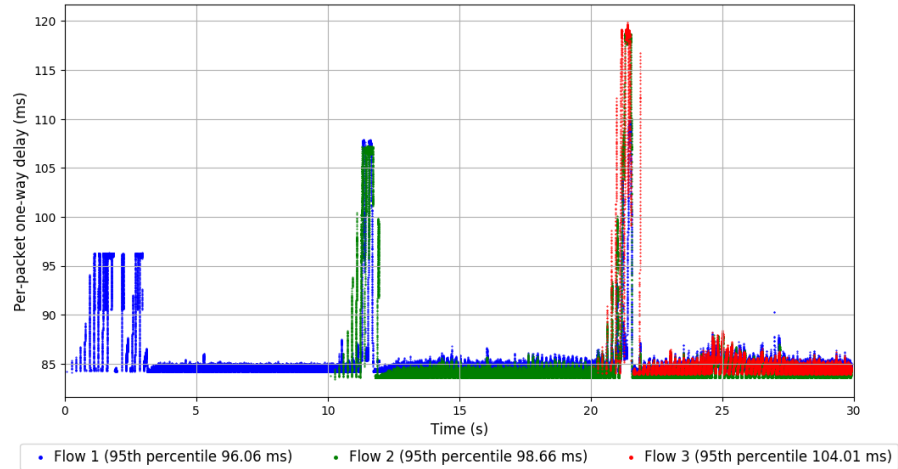
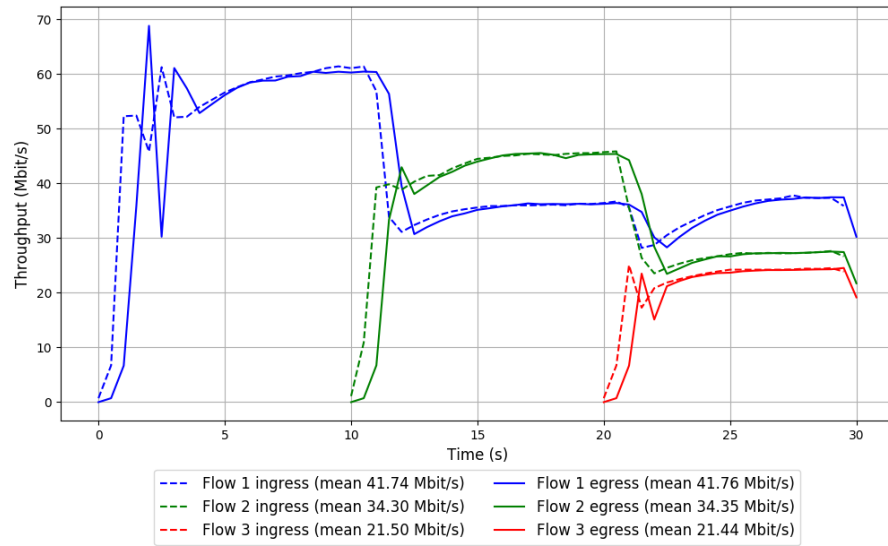
-- Flow 3:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 104.013 ms

Loss rate: 1.92%

Run 8: Report of TCP Cubic — Data Link

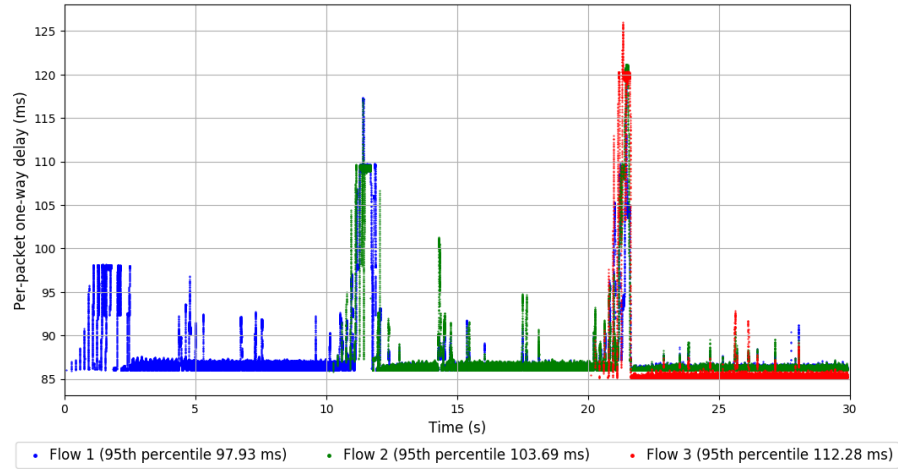
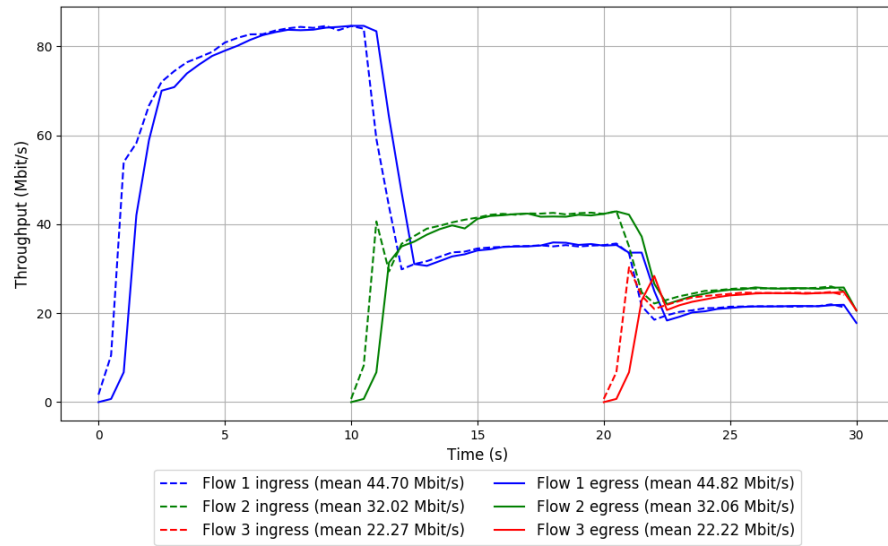


Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 14:49:43
End at: 2018-05-25 14:50:13
Local clock offset: -3.565 ms
Remote clock offset: 12.529 ms

Below is generated by plot.py at 2018-05-25 15:29:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.41 Mbit/s
95th percentile per-packet one-way delay: 97.989 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 97.930 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 32.06 Mbit/s
95th percentile per-packet one-way delay: 103.694 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 22.22 Mbit/s
95th percentile per-packet one-way delay: 112.284 ms
Loss rate: 1.88%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 15:09:22

End at: 2018-05-25 15:09:52

Local clock offset: -2.39 ms

Remote clock offset: 9.494 ms

Below is generated by plot.py at 2018-05-25 15:29:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.65 Mbit/s

95th percentile per-packet one-way delay: 92.751 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 48.17 Mbit/s

95th percentile per-packet one-way delay: 92.727 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 97.100 ms

Loss rate: 0.69%

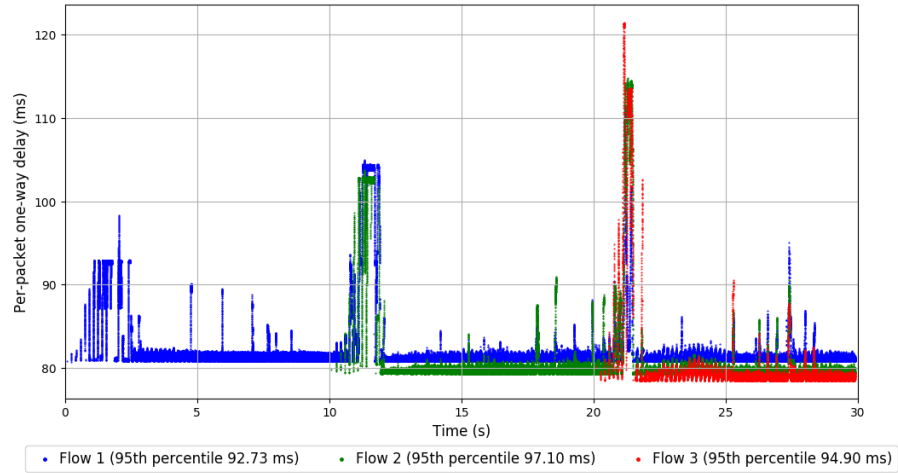
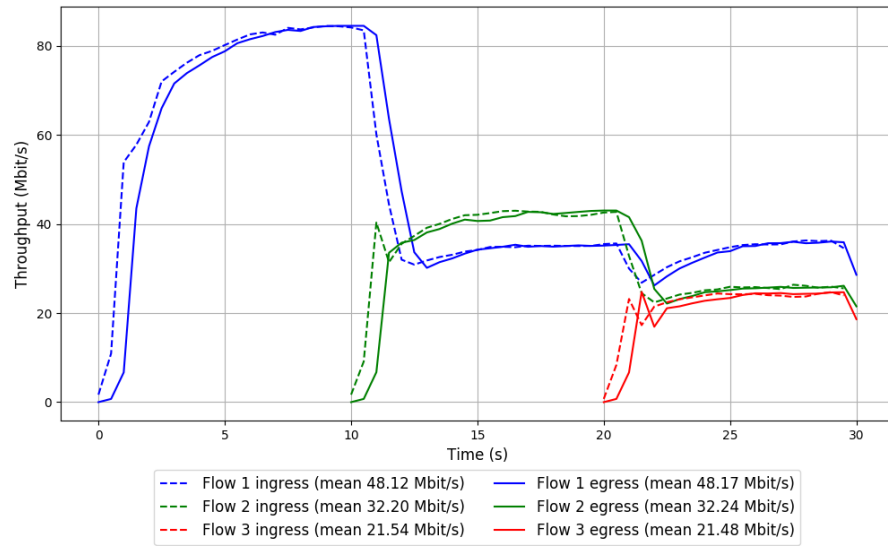
-- Flow 3:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 94.898 ms

Loss rate: 1.90%

Run 10: Report of TCP Cubic — Data Link

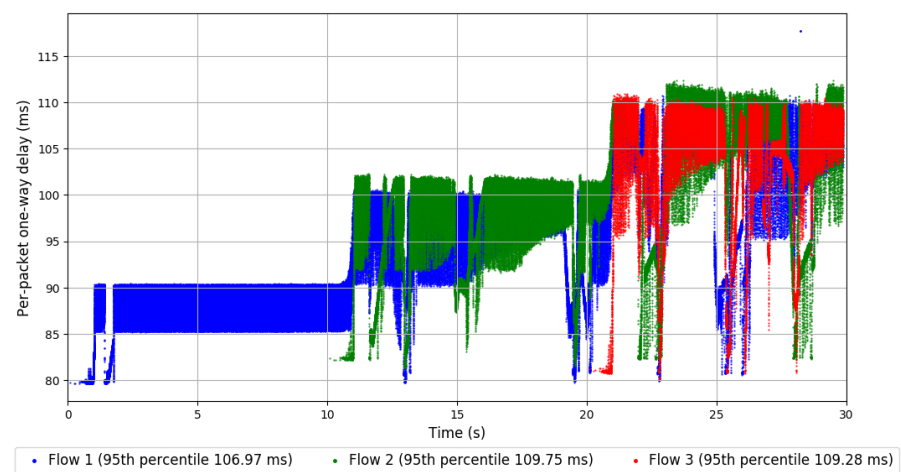
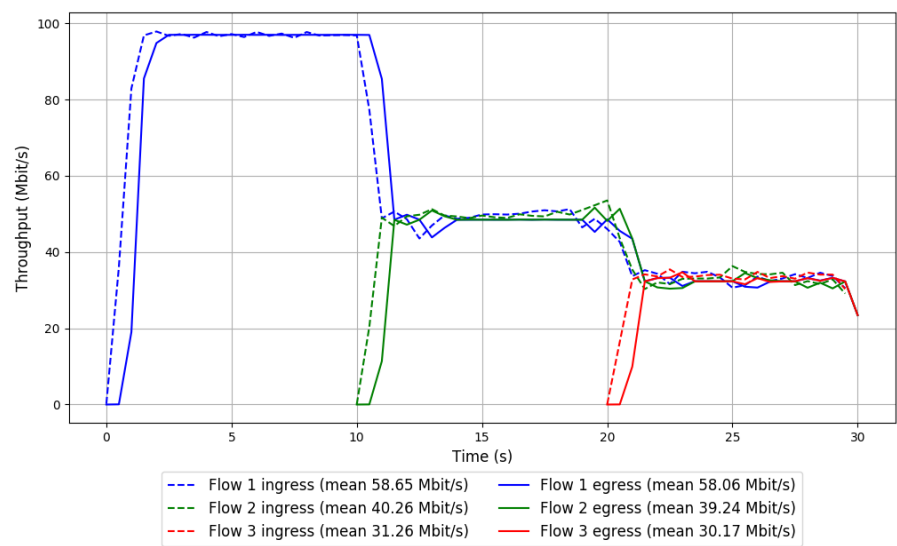


Run 1: Statistics of FillP

Start at: 2018-05-25 12:18:42
End at: 2018-05-25 12:19:12
Local clock offset: -7.427 ms
Remote clock offset: 13.267 ms

Below is generated by plot.py at 2018-05-25 15:30:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 108.669 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 106.969 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 109.753 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 109.285 ms
Loss rate: 5.20%

Run 1: Report of FillP — Data Link

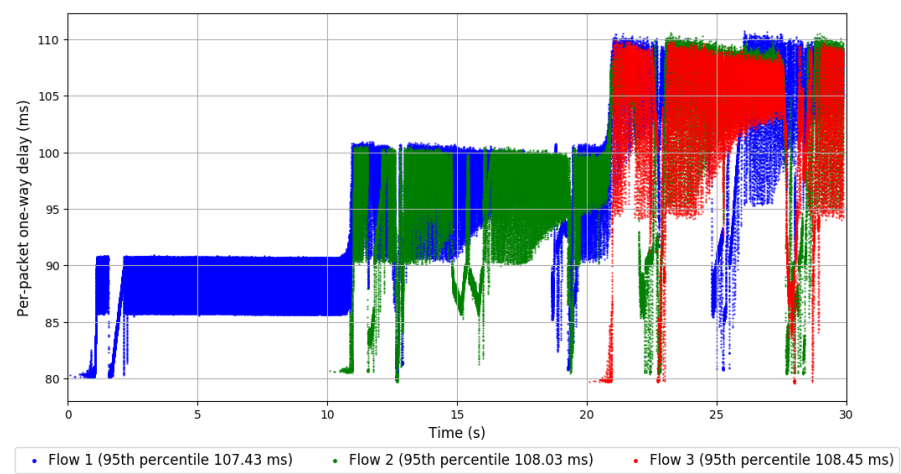
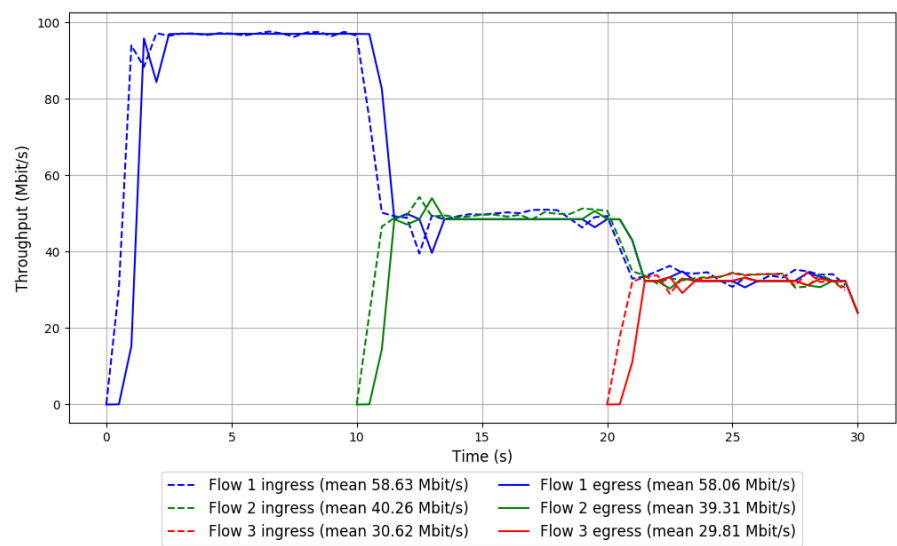


Run 2: Statistics of FillP

Start at: 2018-05-25 12:38:21
End at: 2018-05-25 12:38:51
Local clock offset: -6.49 ms
Remote clock offset: 14.066 ms

Below is generated by plot.py at 2018-05-25 15:30:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 107.898 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 107.429 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 108.027 ms
Loss rate: 3.23%
-- Flow 3:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 108.454 ms
Loss rate: 4.22%

Run 2: Report of FillP — Data Link

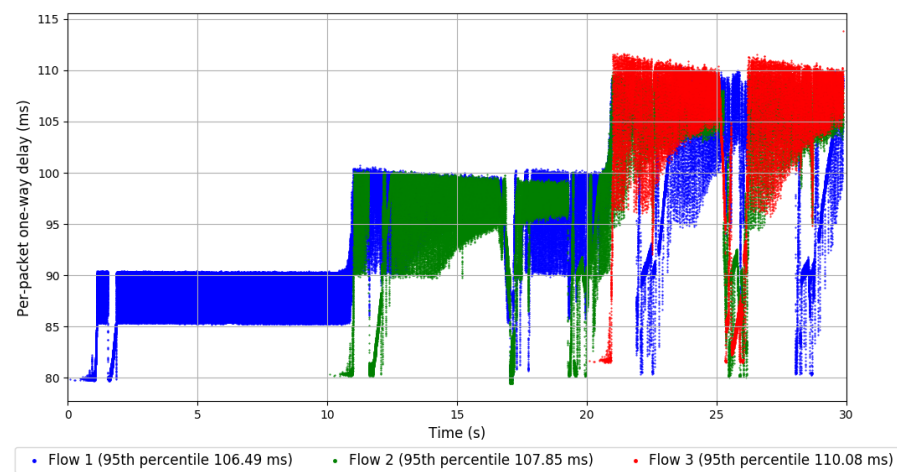
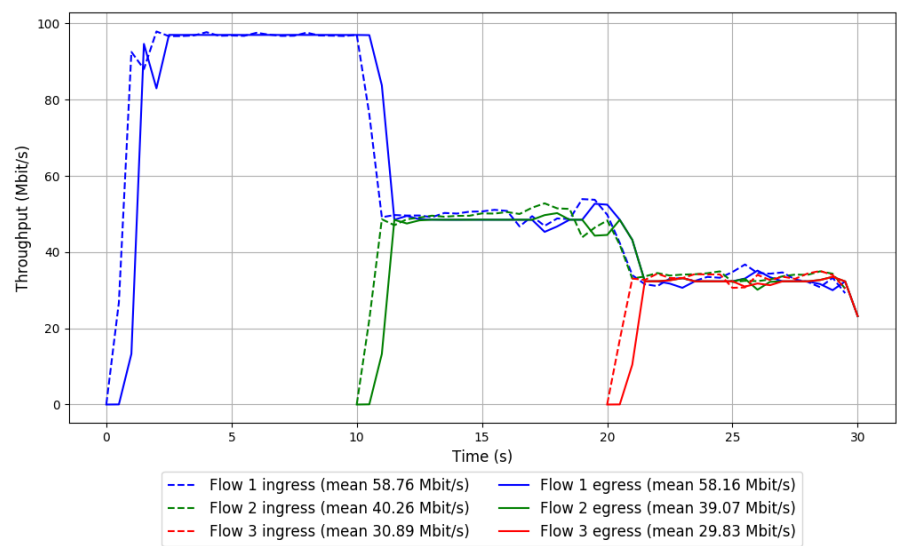


Run 3: Statistics of FillP

Start at: 2018-05-25 12:58:00
End at: 2018-05-25 12:58:30
Local clock offset: -5.347 ms
Remote clock offset: 8.193 ms

Below is generated by plot.py at 2018-05-25 15:30:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 108.170 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 58.16 Mbit/s
95th percentile per-packet one-way delay: 106.487 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 107.854 ms
Loss rate: 3.80%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 110.076 ms
Loss rate: 5.13%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-25 13:17:39

End at: 2018-05-25 13:18:09

Local clock offset: -2.259 ms

Remote clock offset: 3.723 ms

Below is generated by plot.py at 2018-05-25 15:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.95 Mbit/s

95th percentile per-packet one-way delay: 111.705 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 111.382 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 112.161 ms

Loss rate: 2.52%

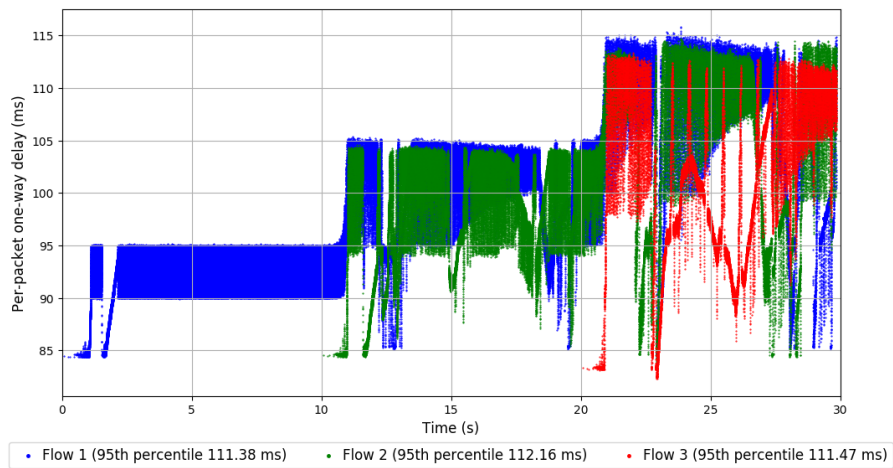
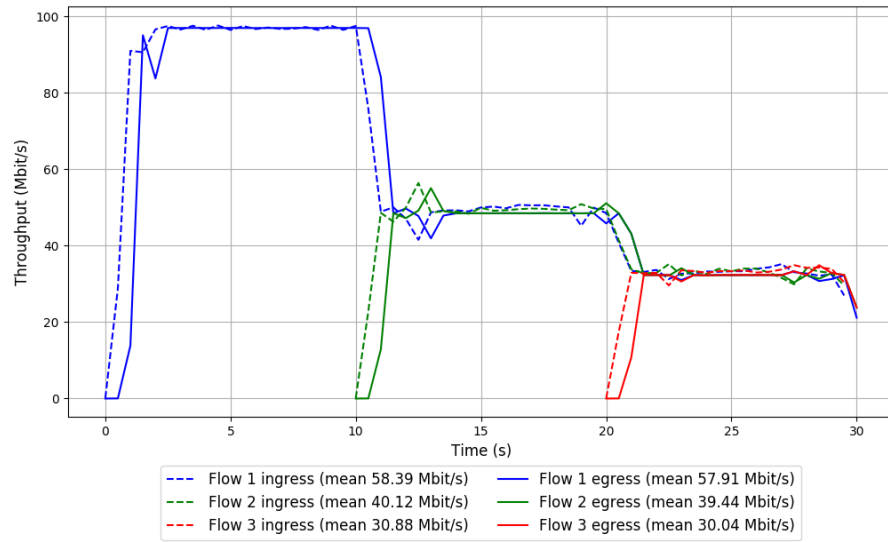
-- Flow 3:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 111.466 ms

Loss rate: 4.42%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-25 13:37:17

End at: 2018-05-25 13:37:47

Local clock offset: -0.101 ms

Remote clock offset: 8.277 ms

Below is generated by plot.py at 2018-05-25 15:30:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 107.435 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 105.579 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 107.625 ms

Loss rate: 3.09%

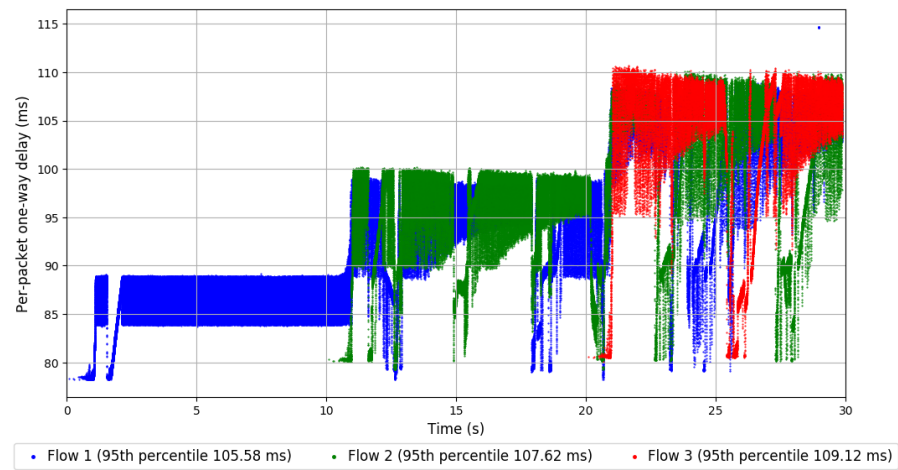
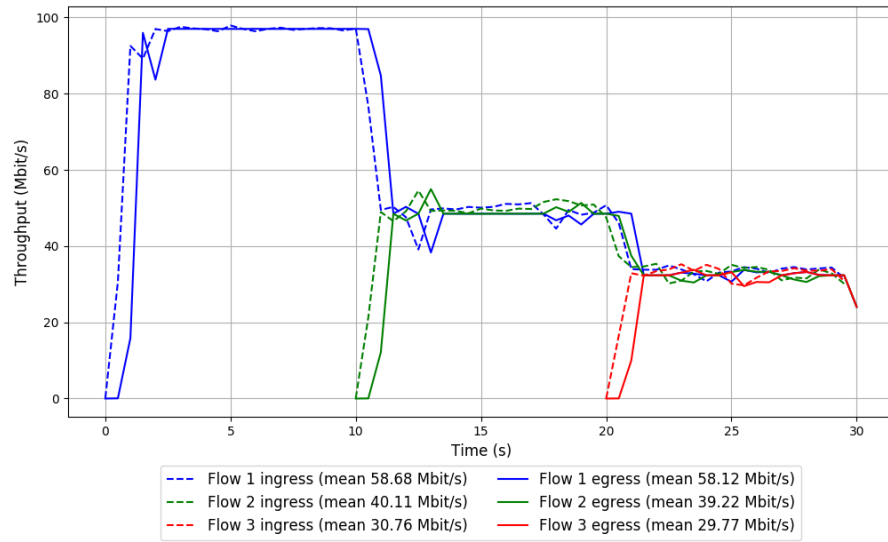
-- Flow 3:

Average throughput: 29.77 Mbit/s

95th percentile per-packet one-way delay: 109.116 ms

Loss rate: 4.84%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 13:56:57

End at: 2018-05-25 13:57:27

Local clock offset: -1.292 ms

Remote clock offset: 9.034 ms

Below is generated by plot.py at 2018-05-25 15:30:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 108.055 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 107.427 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 108.762 ms

Loss rate: 3.20%

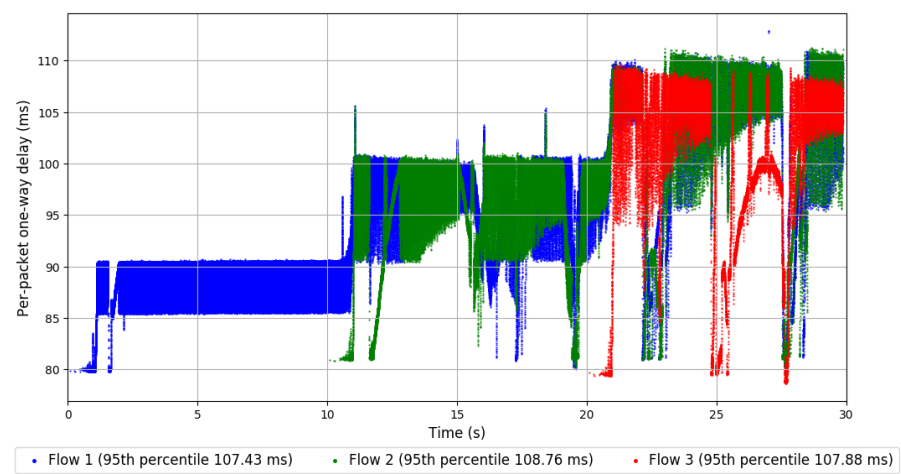
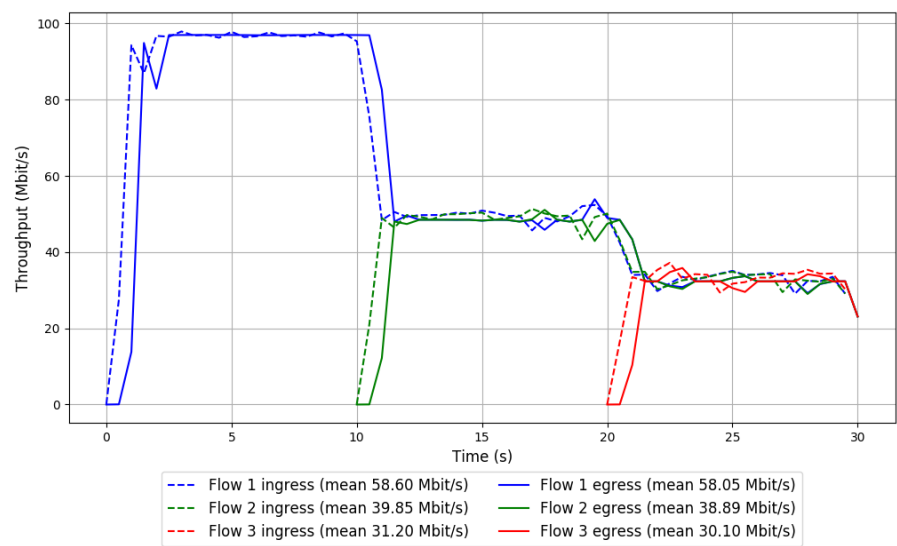
-- Flow 3:

Average throughput: 30.10 Mbit/s

95th percentile per-packet one-way delay: 107.875 ms

Loss rate: 5.09%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-25 14:16:35

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

Local clock offset: -8.662 ms

Remote clock offset: 9.107 ms

Below is generated by plot.py at 2018-05-25 15:30:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 107.303 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 58.16 Mbit/s

95th percentile per-packet one-way delay: 106.124 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 107.352 ms

Loss rate: 3.09%

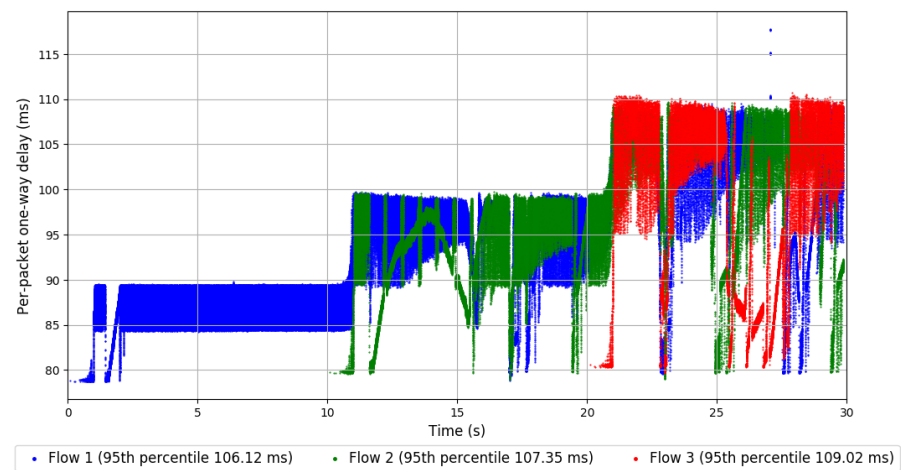
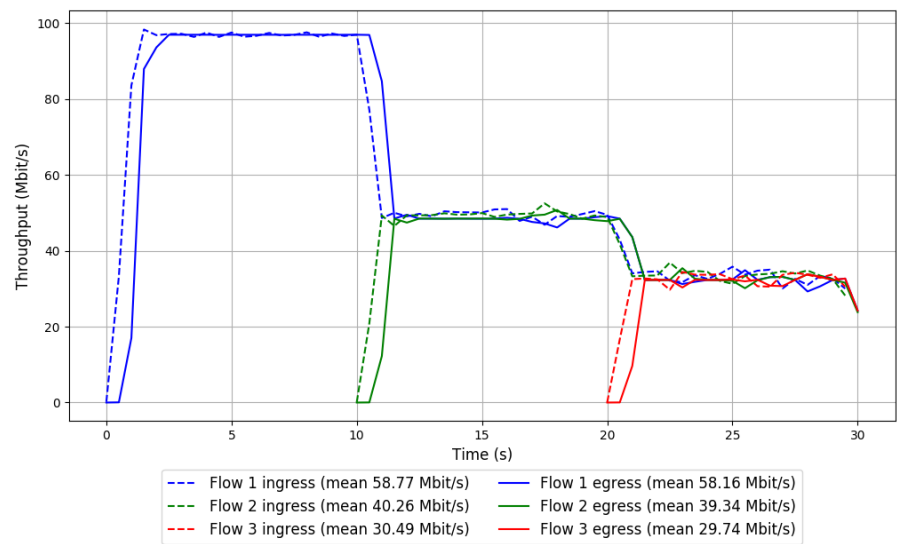
-- Flow 3:

Average throughput: 29.74 Mbit/s

95th percentile per-packet one-way delay: 109.017 ms

Loss rate: 4.14%

Run 7: Report of FillP — Data Link

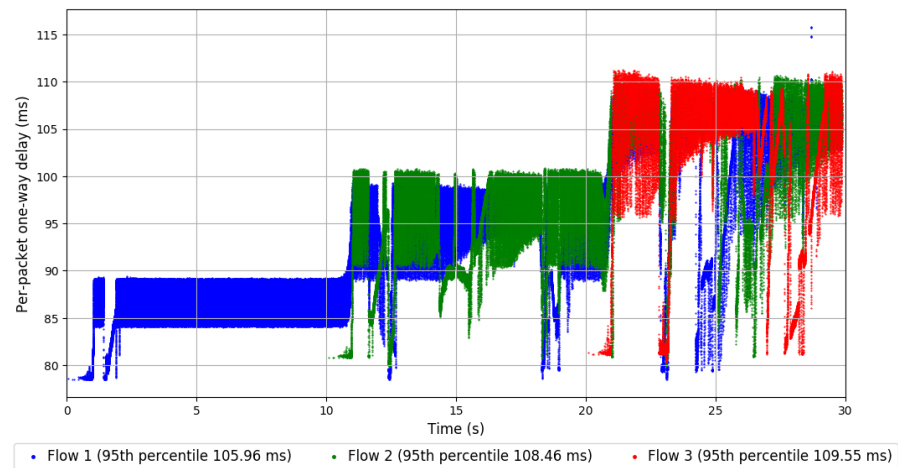
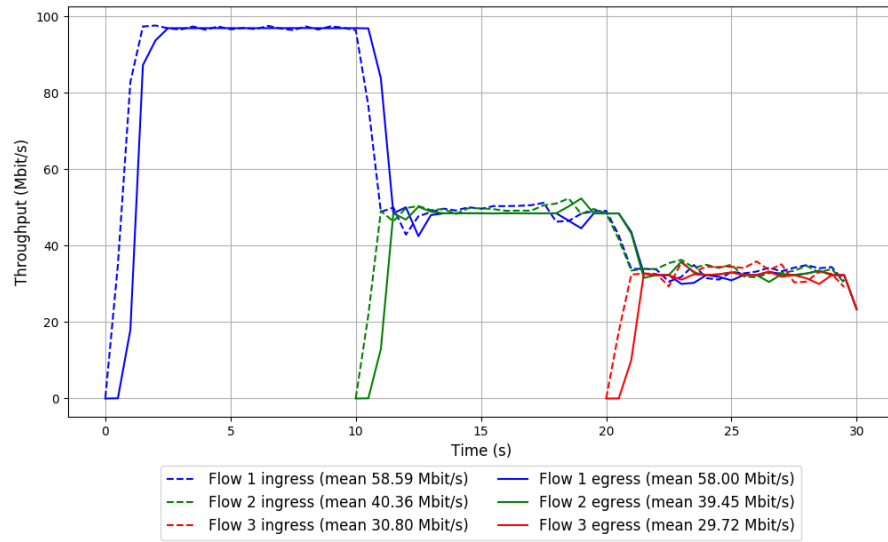


Run 8: Statistics of FillP

Start at: 2018-05-25 14:36:14
End at: 2018-05-25 14:36:44
Local clock offset: -4.869 ms
Remote clock offset: 15.922 ms

Below is generated by plot.py at 2018-05-25 15:31:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 107.820 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 105.963 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 108.464 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 109.549 ms
Loss rate: 5.16%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 14:55:52

End at: 2018-05-25 14:56:22

Local clock offset: -4.158 ms

Remote clock offset: 9.366 ms

Below is generated by plot.py at 2018-05-25 15:32:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 111.567 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 57.43 Mbit/s

95th percentile per-packet one-way delay: 109.926 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 3.29%

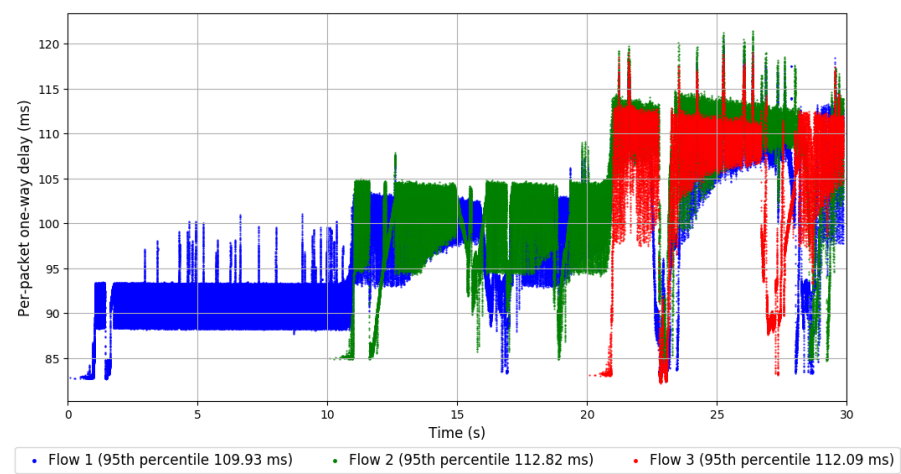
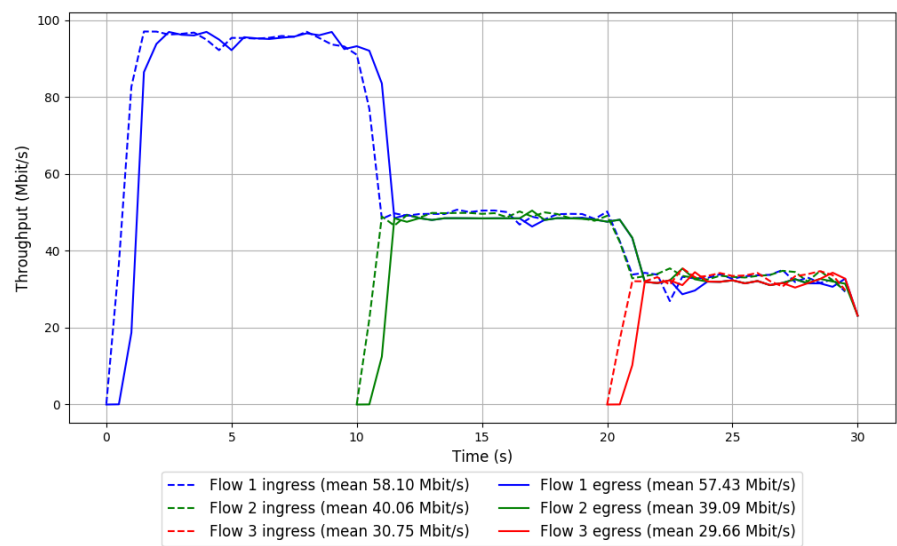
-- Flow 3:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 112.092 ms

Loss rate: 5.27%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

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

End at: 2018-05-25 15:16:01

Local clock offset: -2.329 ms

Remote clock offset: 8.8 ms

Below is generated by plot.py at 2018-05-25 15:32:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 107.547 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 57.68 Mbit/s

95th percentile per-packet one-way delay: 106.482 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 106.637 ms

Loss rate: 3.90%

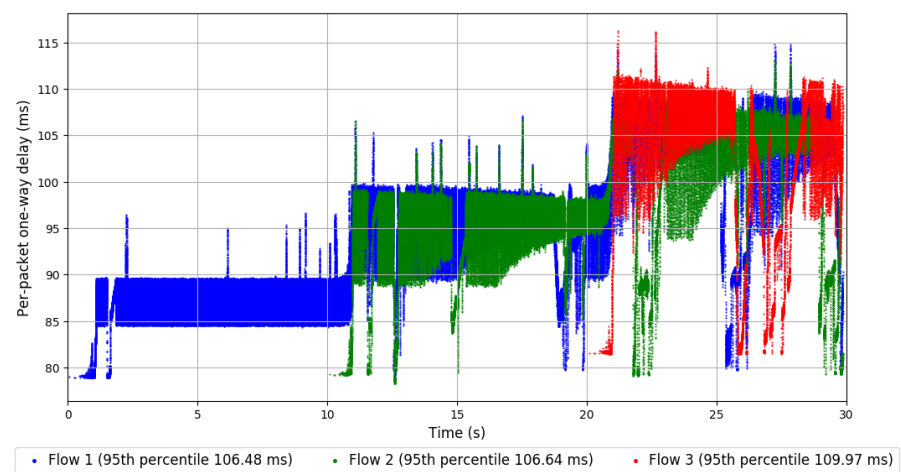
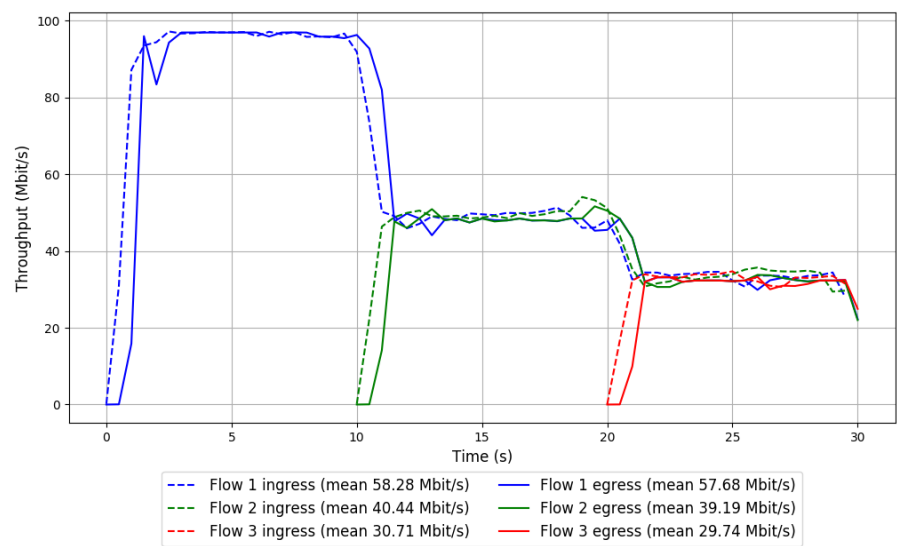
-- Flow 3:

Average throughput: 29.74 Mbit/s

95th percentile per-packet one-way delay: 109.968 ms

Loss rate: 4.87%

Run 10: Report of FillP — Data Link

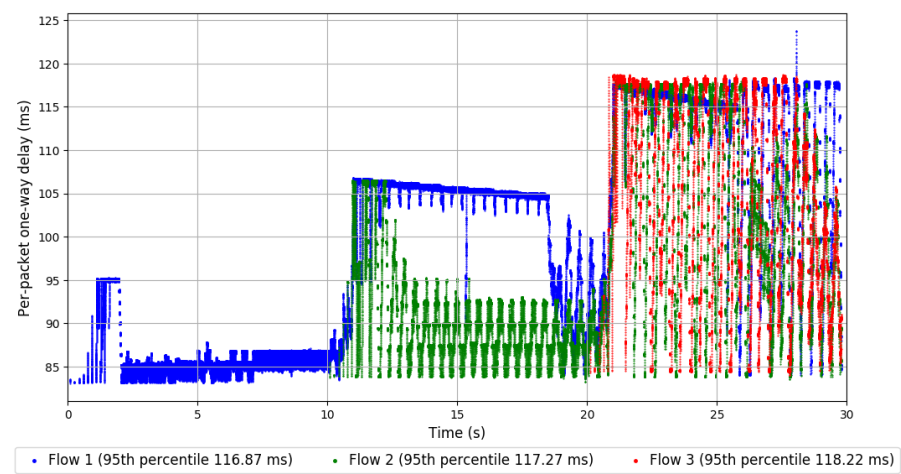
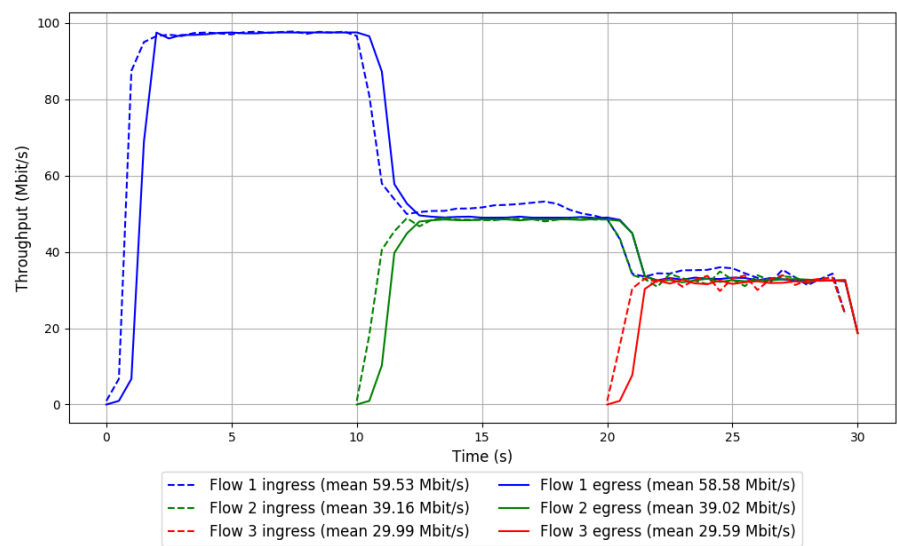


Run 1: Statistics of Indigo

Start at: 2018-05-25 12:24:56
End at: 2018-05-25 12:25:26
Local clock offset: -8.623 ms
Remote clock offset: 10.512 ms

Below is generated by plot.py at 2018-05-25 15:32:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 117.363 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 58.58 Mbit/s
95th percentile per-packet one-way delay: 116.868 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 39.02 Mbit/s
95th percentile per-packet one-way delay: 117.269 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 118.225 ms
Loss rate: 2.97%

Run 1: Report of Indigo — Data Link

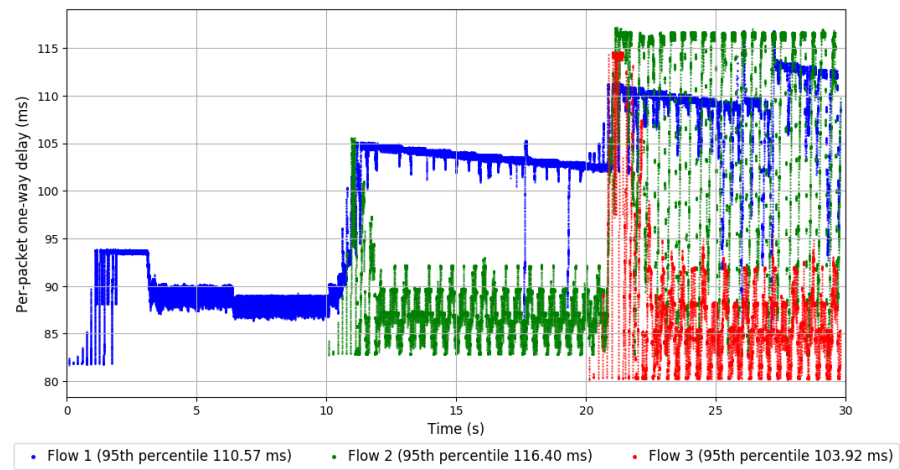
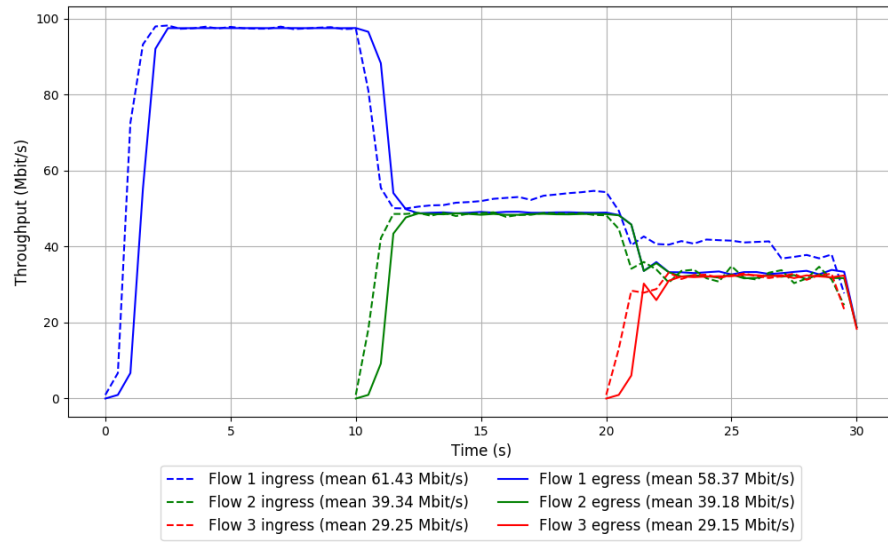


Run 2: Statistics of Indigo

Start at: 2018-05-25 12:44:35
End at: 2018-05-25 12:45:05
Local clock offset: -7.321 ms
Remote clock offset: 10.066 ms

Below is generated by plot.py at 2018-05-25 15:32:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 113.347 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 110.573 ms
Loss rate: 5.53%
-- Flow 2:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 116.404 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 103.924 ms
Loss rate: 2.00%

Run 2: Report of Indigo — Data Link

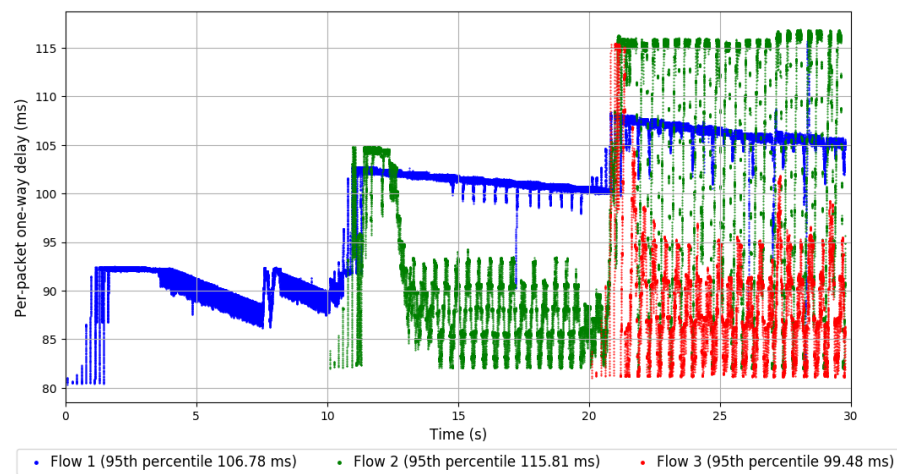
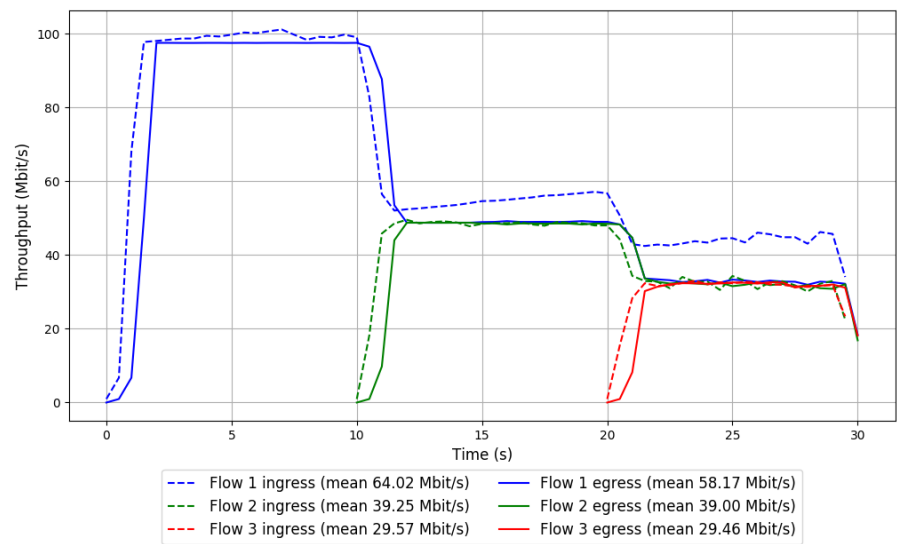


Run 3: Statistics of Indigo

Start at: 2018-05-25 13:04:13
End at: 2018-05-25 13:04:43
Local clock offset: -2.854 ms
Remote clock offset: 7.71 ms

Below is generated by plot.py at 2018-05-25 15:32:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 112.621 ms
Loss rate: 6.74%
-- Flow 1:
Average throughput: 58.17 Mbit/s
95th percentile per-packet one-way delay: 106.780 ms
Loss rate: 9.62%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 115.815 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 99.480 ms
Loss rate: 2.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 13:23:52

End at: 2018-05-25 13:24:22

Local clock offset: -0.164 ms

Remote clock offset: 3.004 ms

Below is generated by plot.py at 2018-05-25 15:32:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 120.253 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 118.199 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 121.212 ms

Loss rate: 1.73%

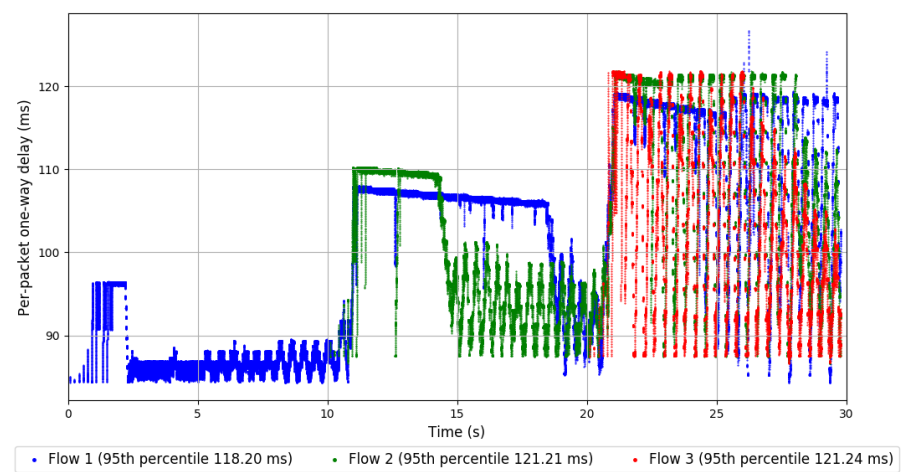
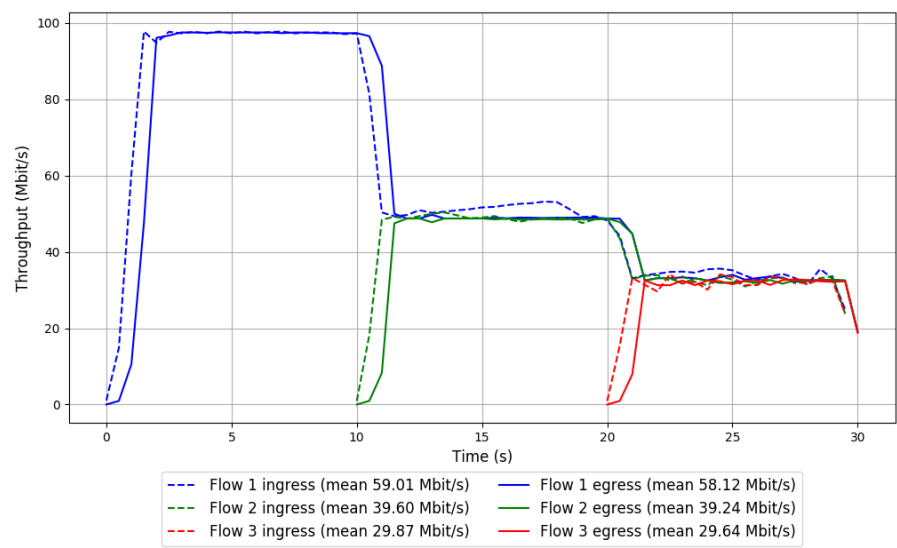
-- Flow 3:

Average throughput: 29.64 Mbit/s

95th percentile per-packet one-way delay: 121.240 ms

Loss rate: 2.44%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 13:43:31

End at: 2018-05-25 13:44:01

Local clock offset: 0.933 ms

Remote clock offset: 7.504 ms

Below is generated by plot.py at 2018-05-25 15:32:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 113.966 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 113.456 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 113.822 ms

Loss rate: 1.12%

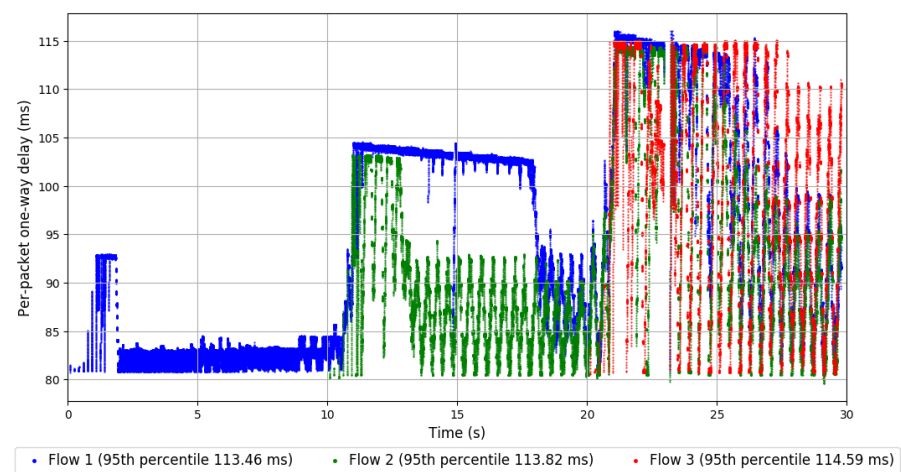
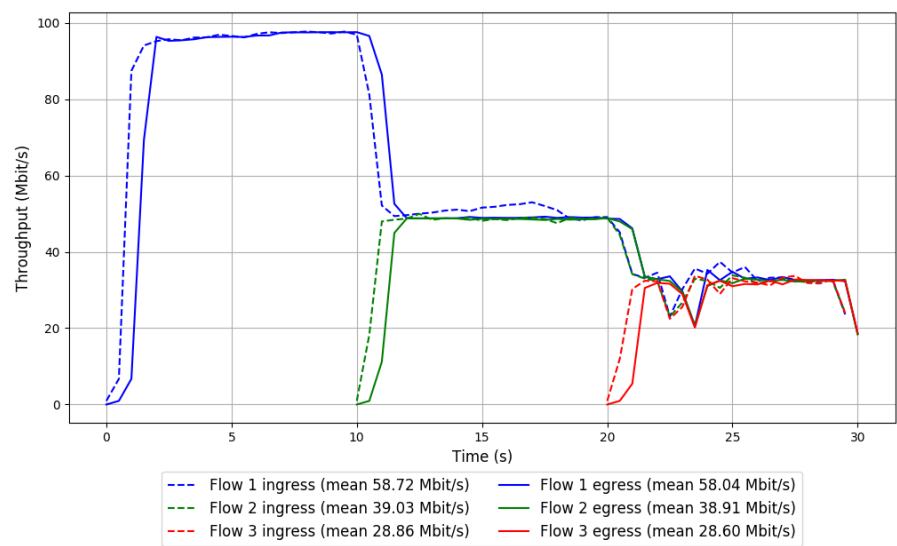
-- Flow 3:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 114.588 ms

Loss rate: 2.54%

Run 5: Report of Indigo — Data Link

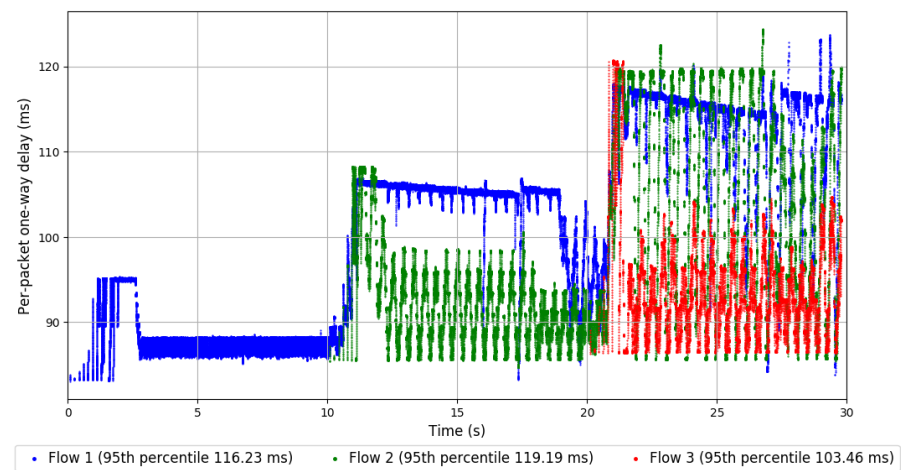
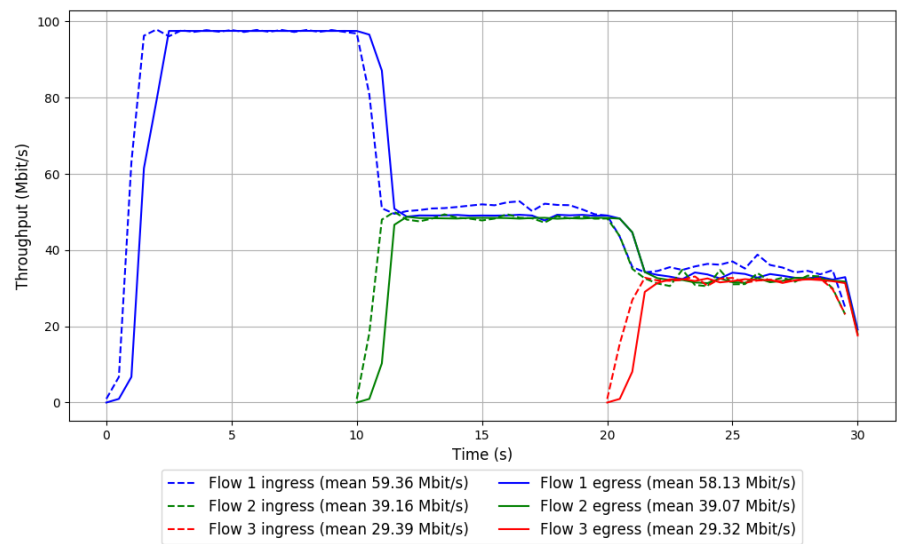


Run 6: Statistics of Indigo

Start at: 2018-05-25 14:03:10
End at: 2018-05-25 14:03:40
Local clock offset: -5.025 ms
Remote clock offset: 3.563 ms

Below is generated by plot.py at 2018-05-25 15:32:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 116.639 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 58.13 Mbit/s
95th percentile per-packet one-way delay: 116.230 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 119.193 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 103.459 ms
Loss rate: 1.90%

Run 6: Report of Indigo — Data Link

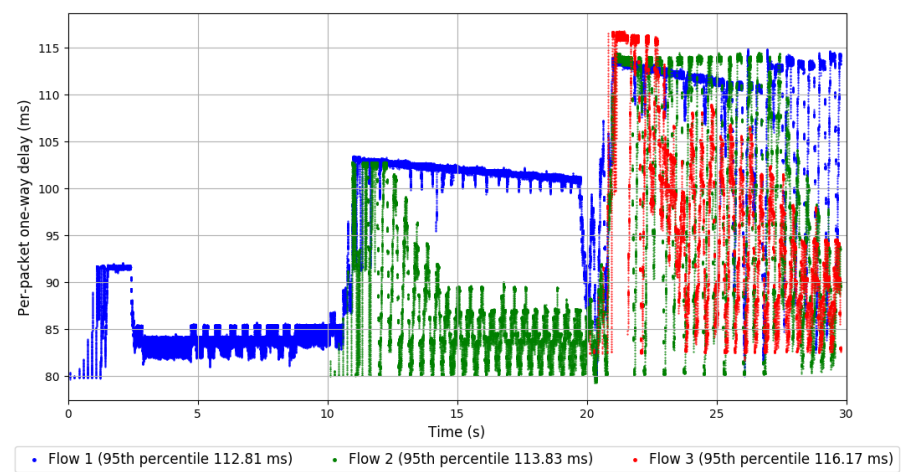
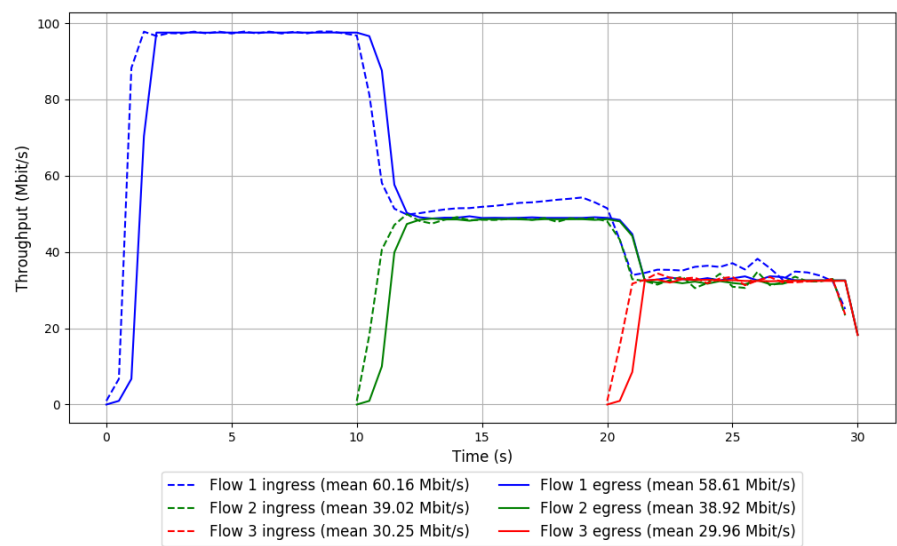


Run 7: Statistics of Indigo

Start at: 2018-05-25 14:22:49
End at: 2018-05-25 14:23:19
Local clock offset: -7.951 ms
Remote clock offset: 12.001 ms

Below is generated by plot.py at 2018-05-25 15:33:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 113.394 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 58.61 Mbit/s
95th percentile per-packet one-way delay: 112.811 ms
Loss rate: 3.09%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 113.829 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 116.170 ms
Loss rate: 2.62%

Run 7: Report of Indigo — Data Link

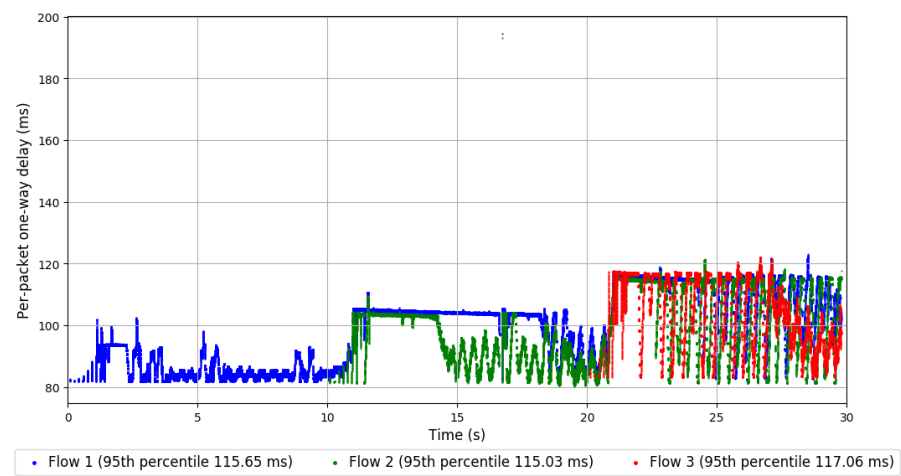
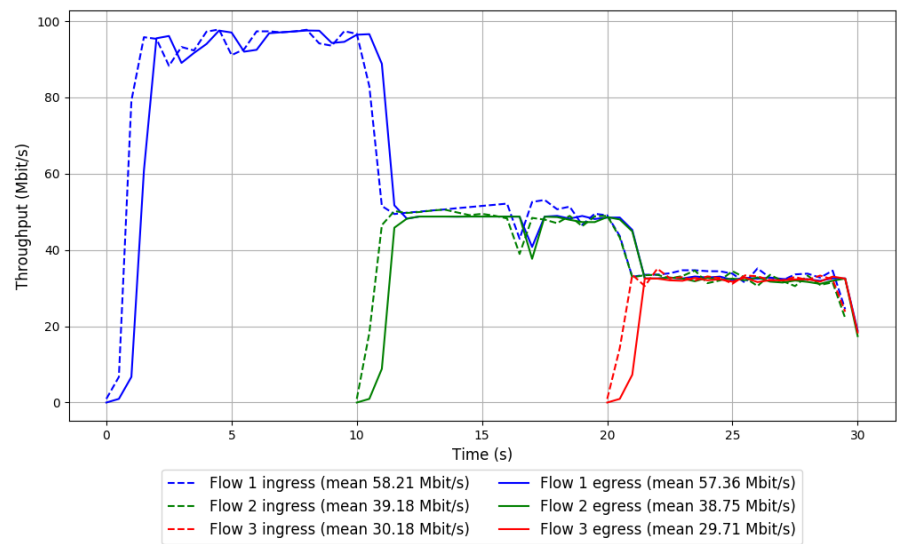


Run 8: Statistics of Indigo

Start at: 2018-05-25 14:42:27
End at: 2018-05-25 14:42:57
Local clock offset: -4.0 ms
Remote clock offset: 15.185 ms

```
# Below is generated by plot.py at 2018-05-25 15:33:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 115.969 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 115.646 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 115.031 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 29.71 Mbit/s
95th percentile per-packet one-way delay: 117.055 ms
Loss rate: 3.20%
```

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-25 15:02:06

End at: 2018-05-25 15:02:36

Local clock offset: -3.242 ms

Remote clock offset: 5.99 ms

Below is generated by plot.py at 2018-05-25 15:33:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 118.141 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 117.855 ms

Loss rate: 2.80%

-- Flow 2:

Average throughput: 38.67 Mbit/s

95th percentile per-packet one-way delay: 119.366 ms

Loss rate: 1.37%

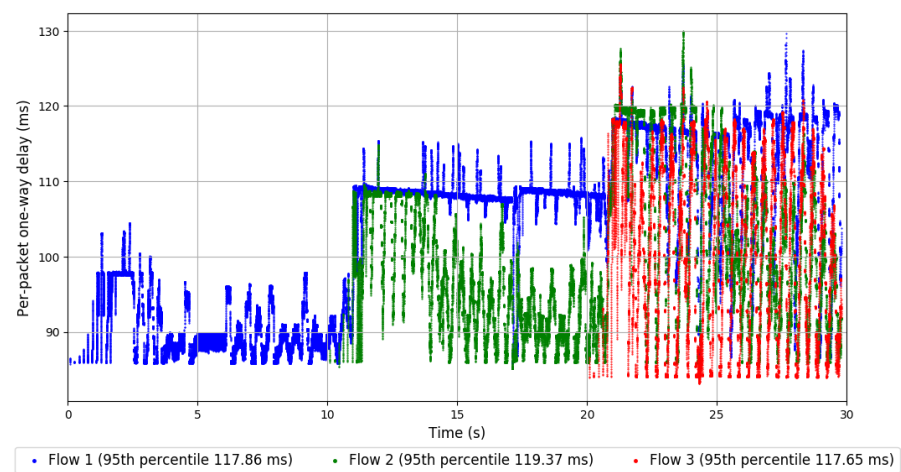
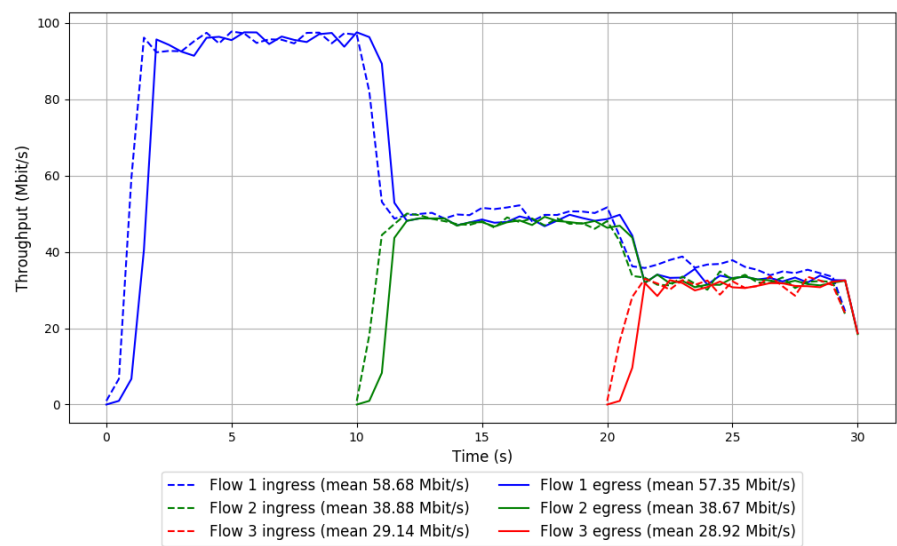
-- Flow 3:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 117.647 ms

Loss rate: 2.37%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-25 15:21:45

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

Local clock offset: -3.048 ms

Remote clock offset: 7.497 ms

Below is generated by plot.py at 2018-05-25 15:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 114.033 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 114.286 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 113.668 ms

Loss rate: 1.16%

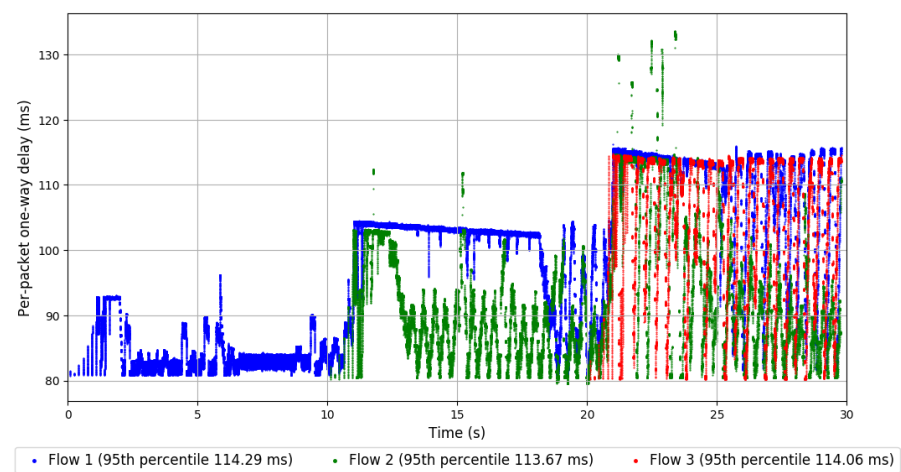
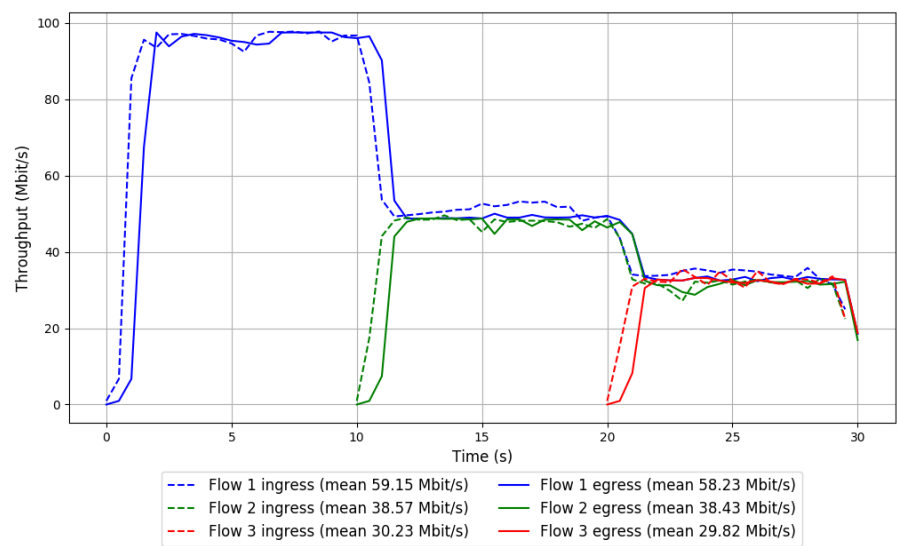
-- Flow 3:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 114.061 ms

Loss rate: 2.98%

Run 10: Report of Indigo — Data Link

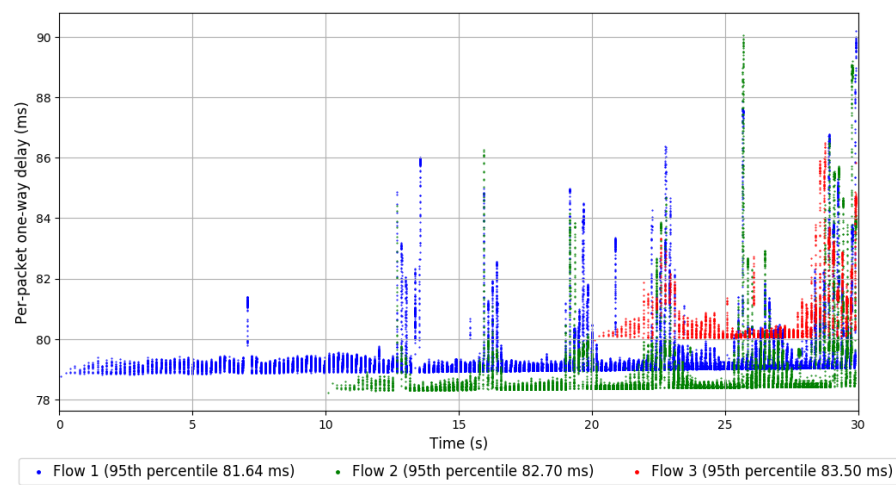
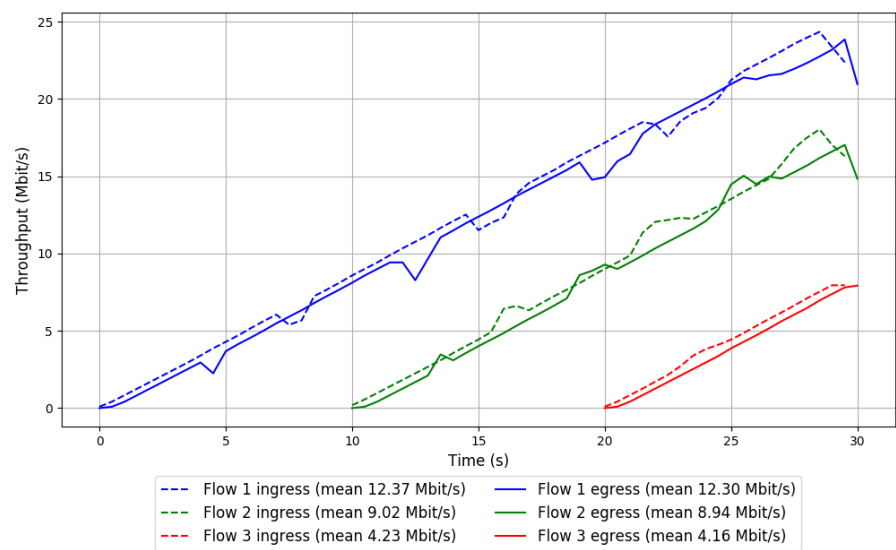


Run 1: Statistics of LEDBAT

Start at: 2018-05-25 12:10:10
End at: 2018-05-25 12:10:40
Local clock offset: -7.317 ms
Remote clock offset: 11.568 ms

Below is generated by plot.py at 2018-05-25 15:33:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.61 Mbit/s
95th percentile per-packet one-way delay: 82.228 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 81.644 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 82.699 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 83.499 ms
Loss rate: 3.23%

Run 1: Report of LEDBAT — Data Link

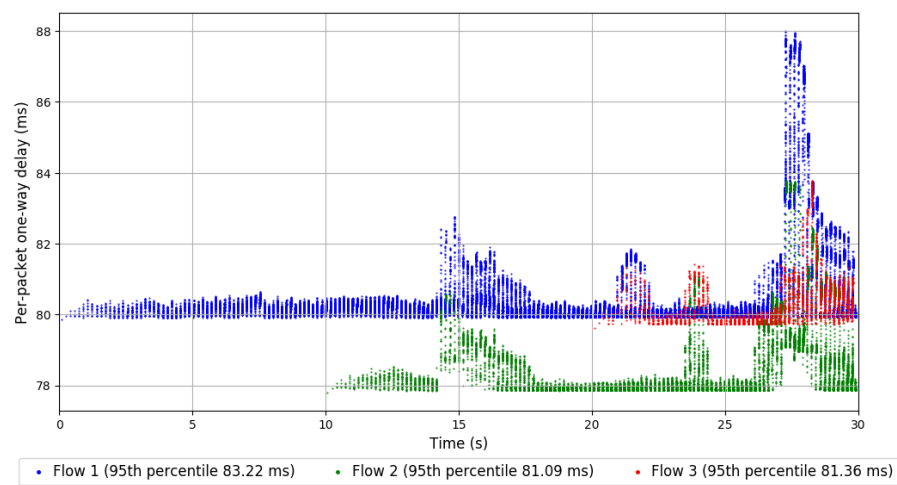
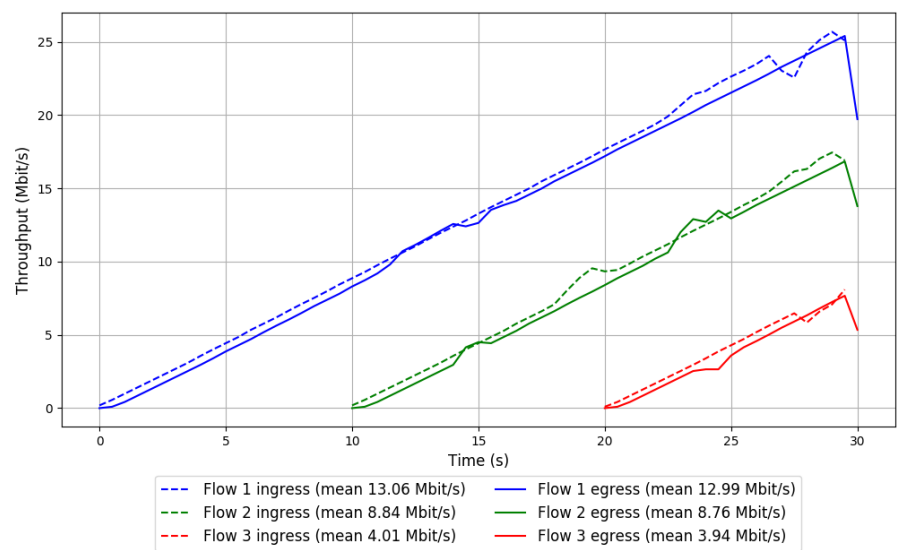


Run 2: Statistics of LEDBAT

Start at: 2018-05-25 12:29:49
End at: 2018-05-25 12:30:19
Local clock offset: -7.468 ms
Remote clock offset: 16.676 ms

Below is generated by plot.py at 2018-05-25 15:33:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 82.424 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 83.219 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 81.094 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 81.364 ms
Loss rate: 3.47%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-25 12:49:28

End at: 2018-05-25 12:49:58

Local clock offset: -7.428 ms

Remote clock offset: 9.444 ms

Below is generated by plot.py at 2018-05-25 15:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.40 Mbit/s

95th percentile per-packet one-way delay: 83.075 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 82.948 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 83.596 ms

Loss rate: 1.64%

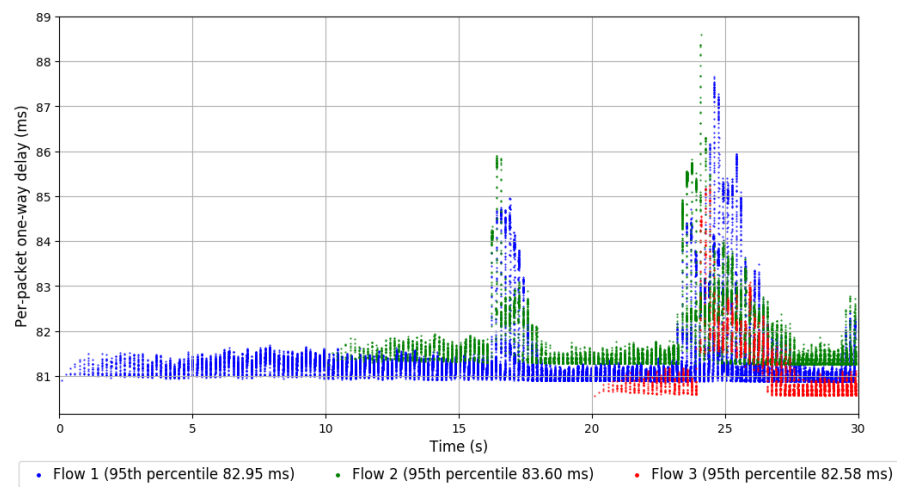
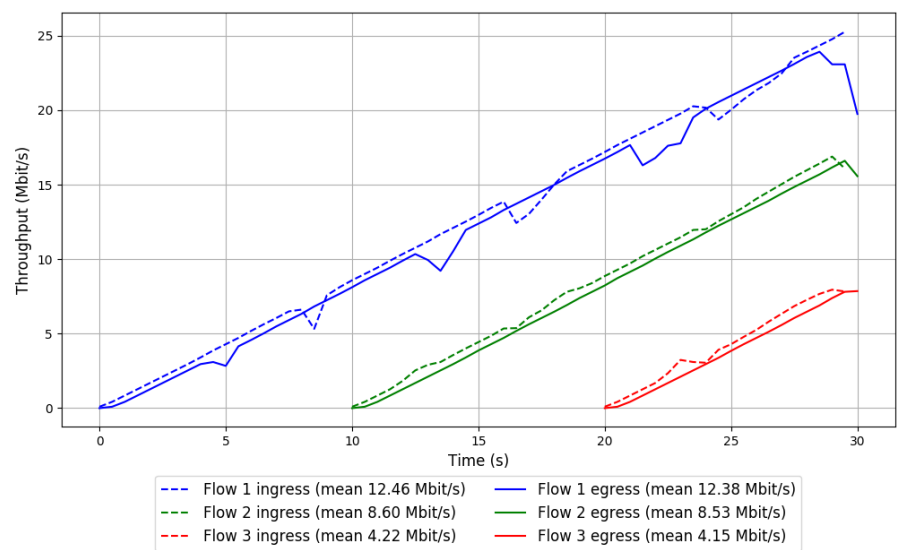
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 82.585 ms

Loss rate: 3.18%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 13:09:07

End at: 2018-05-25 13:09:37

Local clock offset: -1.79 ms

Remote clock offset: 3.708 ms

Below is generated by plot.py at 2018-05-25 15:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.41 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.44 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 87.149 ms

Loss rate: 1.69%

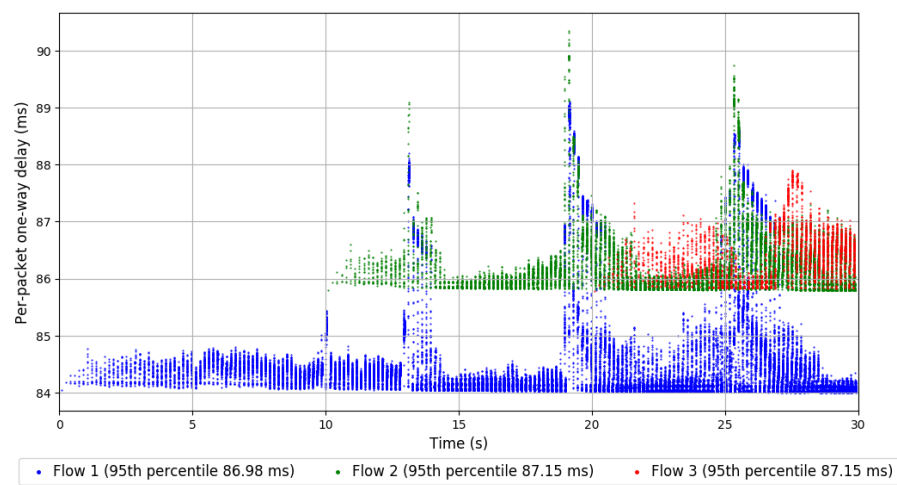
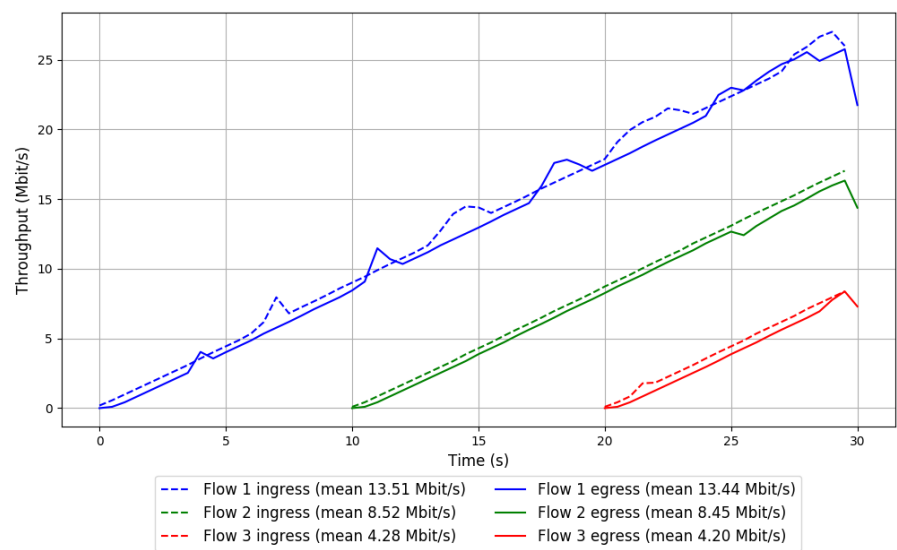
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 87.153 ms

Loss rate: 3.35%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-25 13:28:46

End at: 2018-05-25 13:29:16

Local clock offset: 0.177 ms

Remote clock offset: 7.472 ms

Below is generated by plot.py at 2018-05-25 15:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 82.896 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 82.458 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 83.219 ms

Loss rate: 1.64%

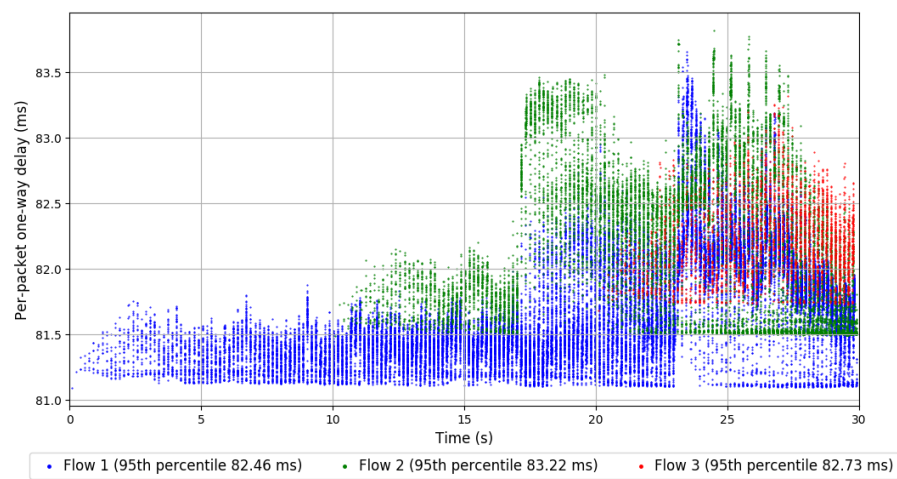
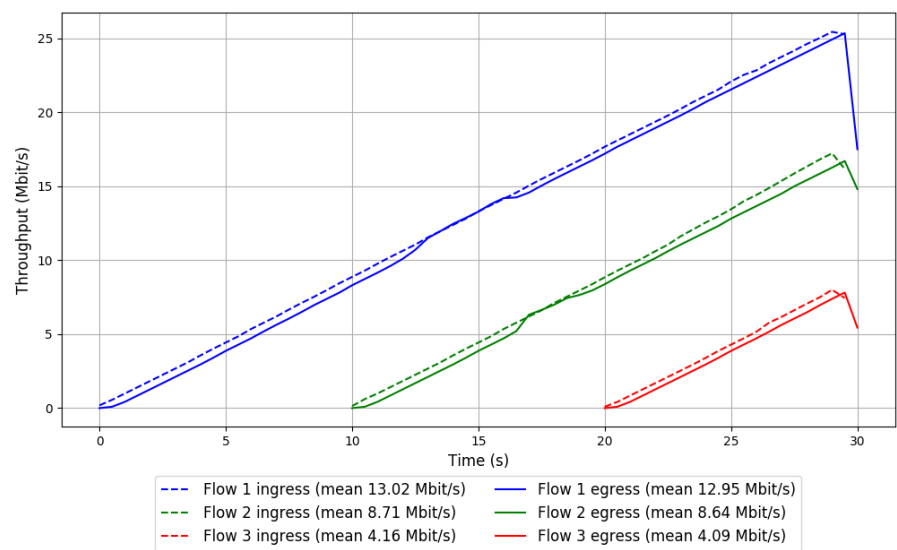
-- Flow 3:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 82.728 ms

Loss rate: 3.41%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 13:48:25

End at: 2018-05-25 13:48:55

Local clock offset: 0.403 ms

Remote clock offset: 4.015 ms

Below is generated by plot.py at 2018-05-25 15:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 86.188 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 86.349 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 85.356 ms

Loss rate: 1.64%

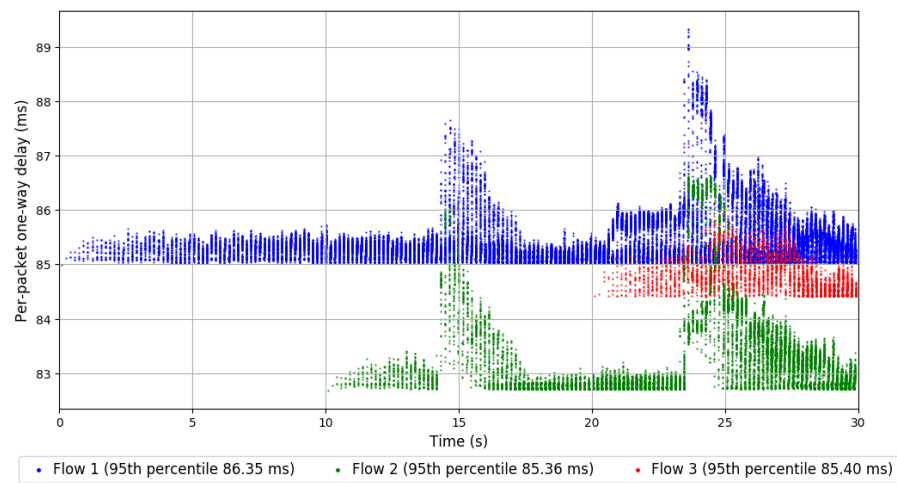
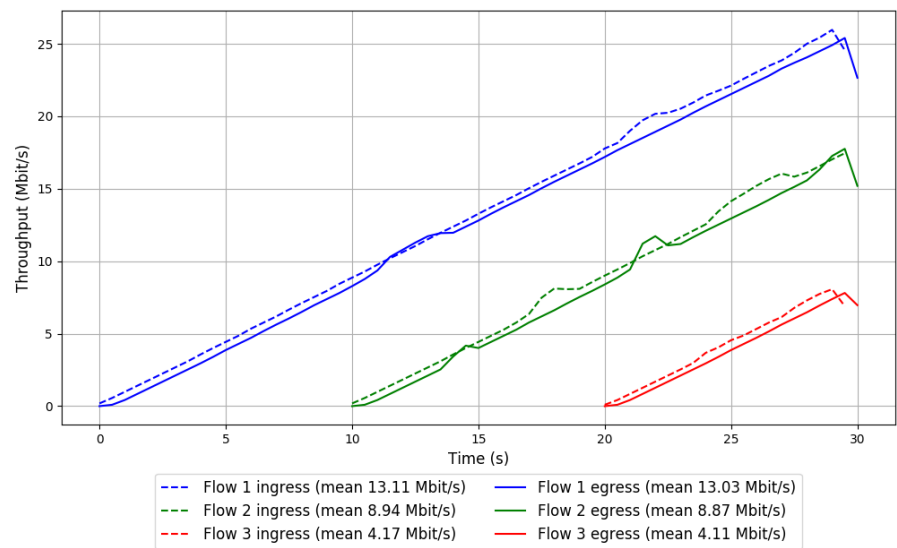
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 85.400 ms

Loss rate: 3.02%

Run 6: Report of LEDBAT — Data Link

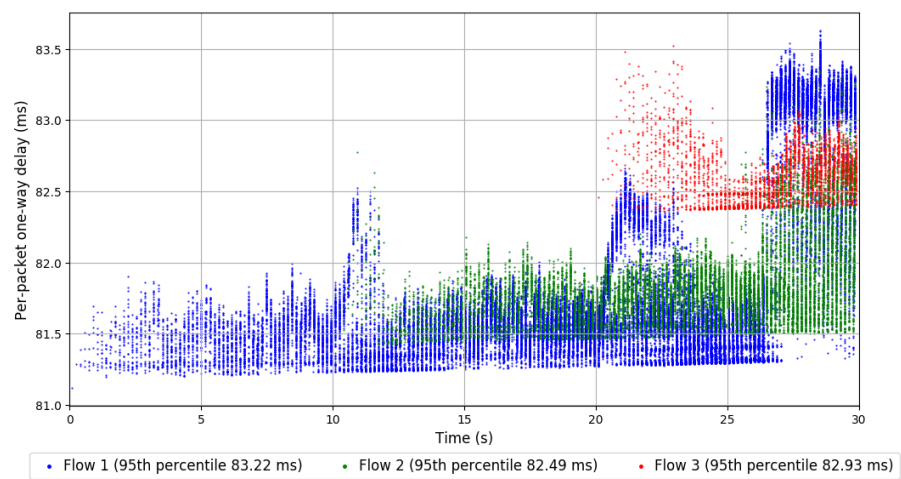
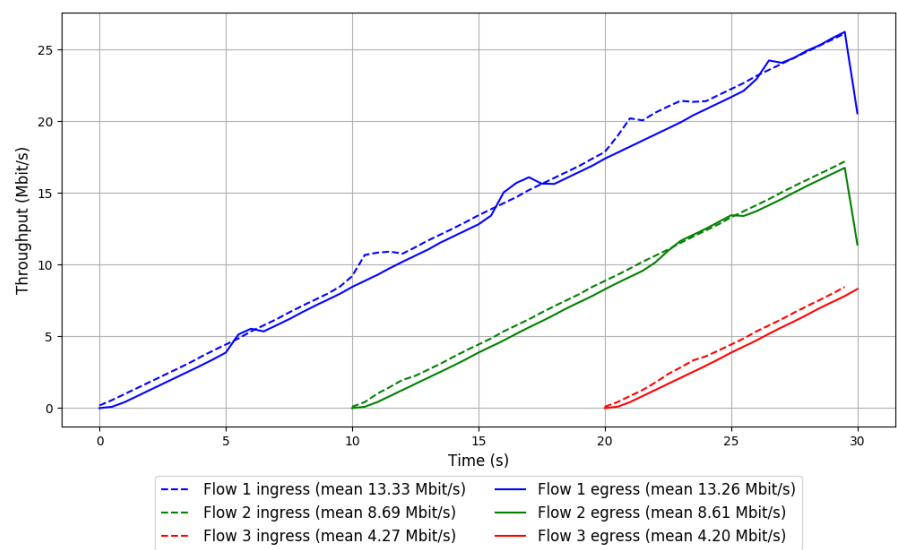


Run 7: Statistics of LEDBAT

Start at: 2018-05-25 14:08:04
End at: 2018-05-25 14:08:34
Local clock offset: -5.199 ms
Remote clock offset: 8.306 ms

```
# Below is generated by plot.py at 2018-05-25 15:33:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 83.166 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 83.217 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 82.489 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 82.927 ms
Loss rate: 3.37%
```


Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-25 14:27:42

End at: 2018-05-25 14:28:12

Local clock offset: -7.655 ms

Remote clock offset: 8.286 ms

Below is generated by plot.py at 2018-05-25 15:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.38 Mbit/s

95th percentile per-packet one-way delay: 87.148 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 12.31 Mbit/s

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

Loss rate: 1.01%

-- Flow 2:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 87.761 ms

Loss rate: 1.66%

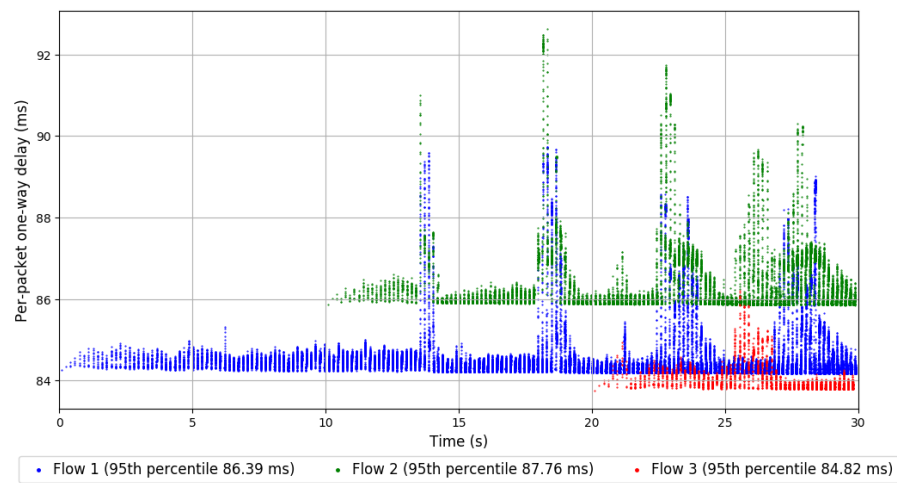
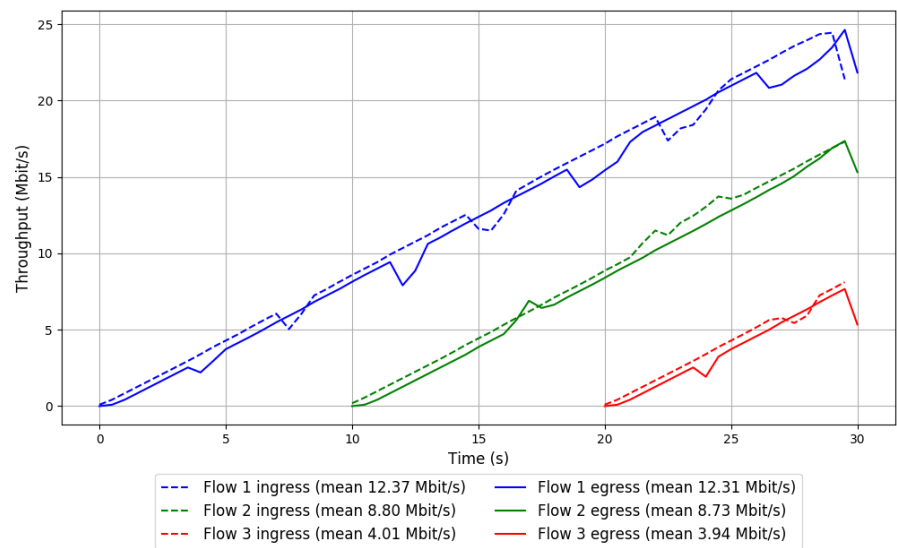
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 84.821 ms

Loss rate: 3.50%

Run 8: Report of LEDBAT — Data Link

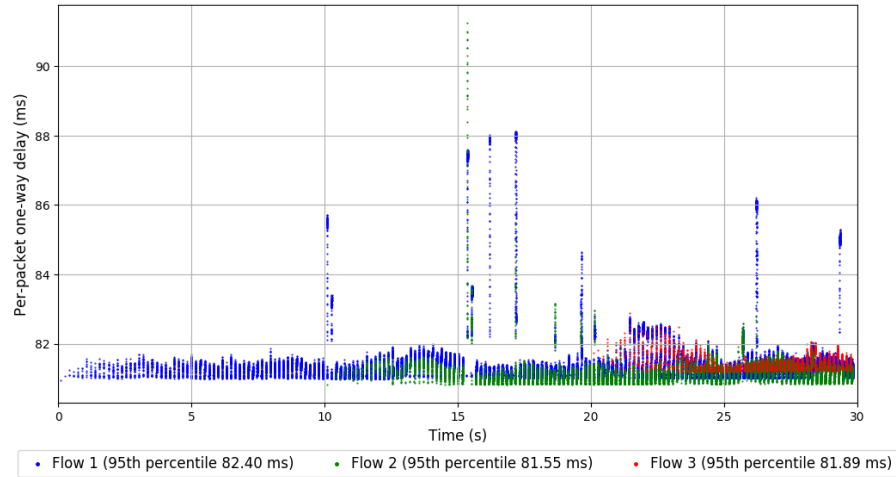
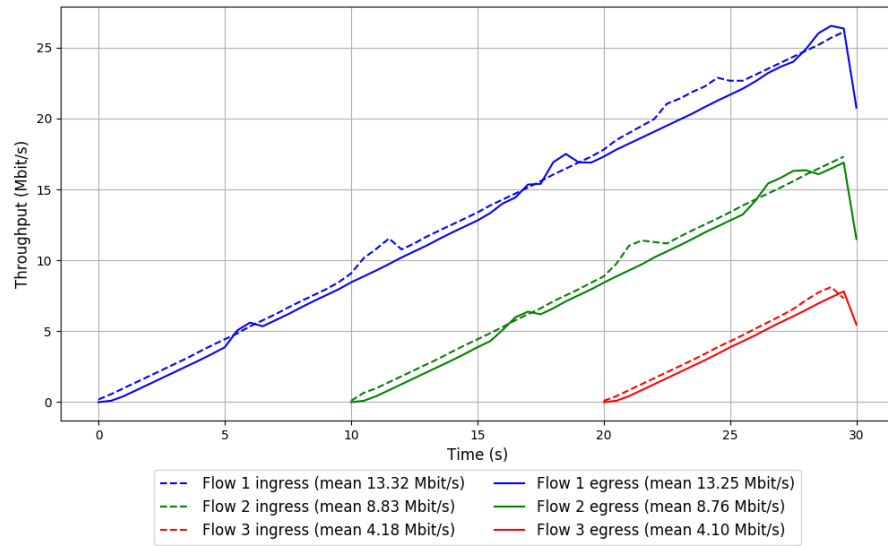


Run 9: Statistics of LEDBAT

Start at: 2018-05-25 14:47:20
End at: 2018-05-25 14:47:50
Local clock offset: -3.723 ms
Remote clock offset: 16.918 ms

Below is generated by plot.py at 2018-05-25 15:33:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 82.245 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 82.398 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 81.553 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 81.889 ms
Loss rate: 3.43%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-25 15:06:59

End at: 2018-05-25 15:07:29

Local clock offset: -3.185 ms

Remote clock offset: 4.603 ms

Below is generated by plot.py at 2018-05-25 15:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 86.989 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 86.396 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 87.655 ms

Loss rate: 1.60%

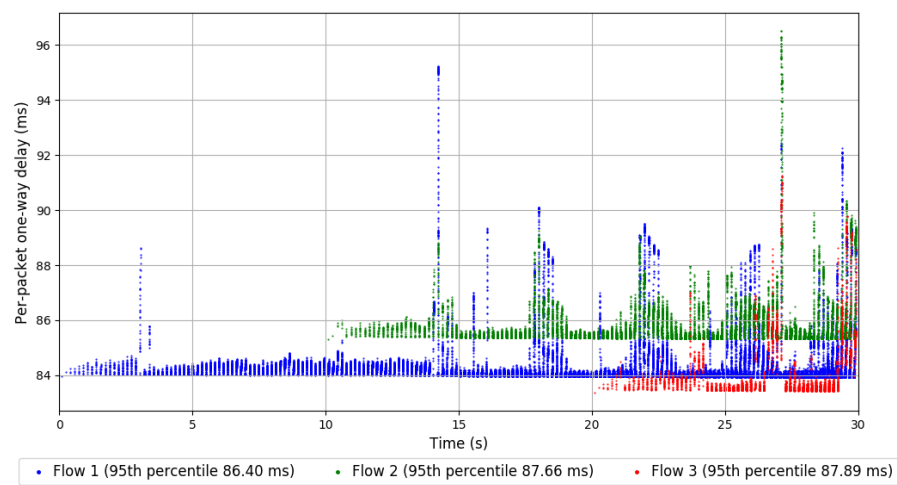
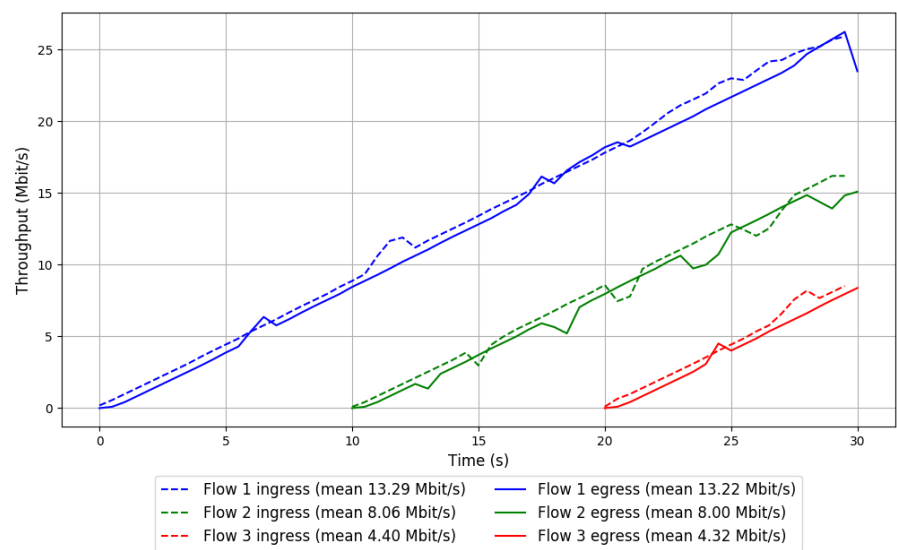
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 87.893 ms

Loss rate: 3.29%

Run 10: Report of LEDBAT — Data Link

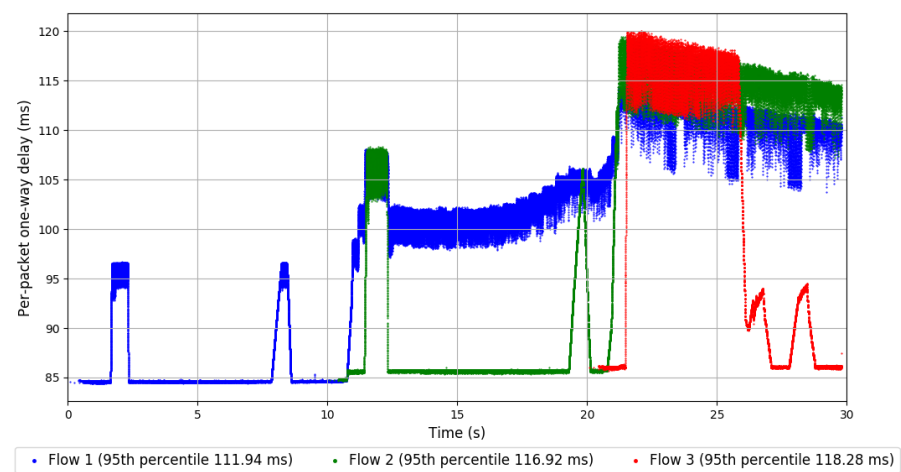
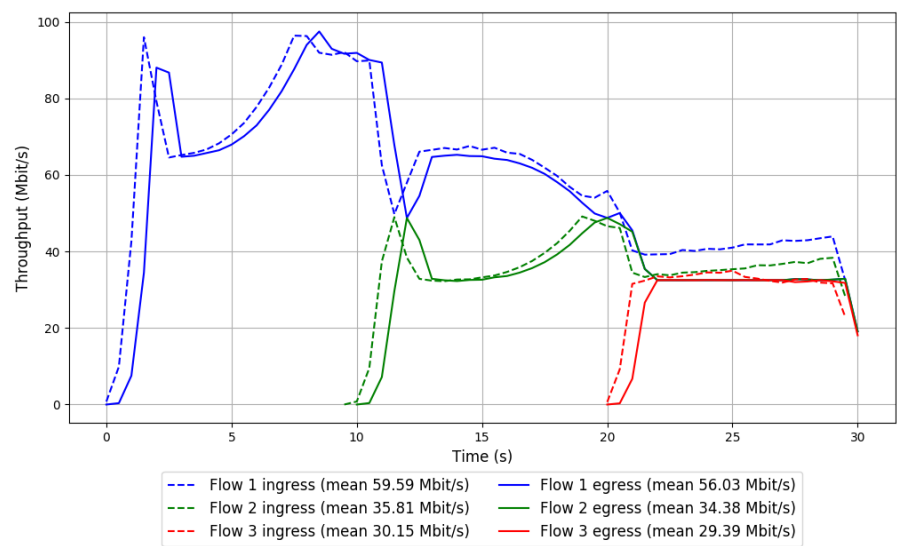


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 12:22:24
End at: 2018-05-25 12:22:54
Local clock offset: -6.847 ms
Remote clock offset: 10.182 ms

Below is generated by plot.py at 2018-05-25 15:33:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.44 Mbit/s
95th percentile per-packet one-way delay: 116.130 ms
Loss rate: 5.82%
-- Flow 1:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 111.943 ms
Loss rate: 6.51%
-- Flow 2:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 116.917 ms
Loss rate: 4.81%
-- Flow 3:
Average throughput: 29.39 Mbit/s
95th percentile per-packet one-way delay: 118.275 ms
Loss rate: 4.12%

Run 1: Report of PCC-Allegro — Data Link

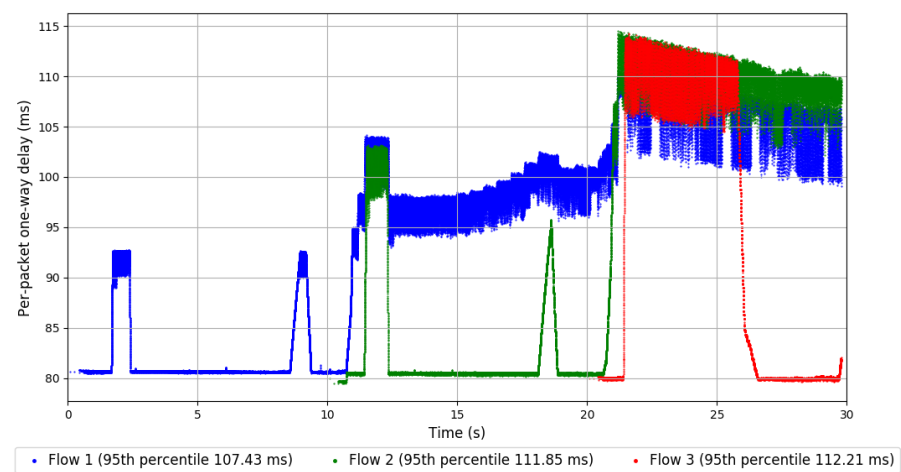
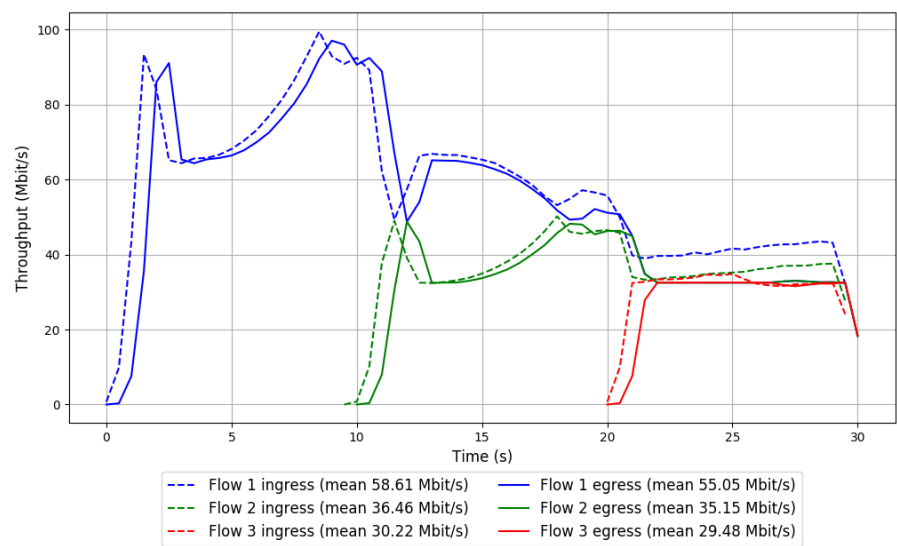


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 12:42:03
End at: 2018-05-25 12:42:33
Local clock offset: -7.251 ms
Remote clock offset: 11.806 ms

Below is generated by plot.py at 2018-05-25 15:33:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 110.678 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 55.05 Mbit/s
95th percentile per-packet one-way delay: 107.434 ms
Loss rate: 6.61%
-- Flow 2:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 111.849 ms
Loss rate: 4.43%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 112.211 ms
Loss rate: 4.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 13:01:41

End at: 2018-05-25 13:02:11

Local clock offset: -4.445 ms

Remote clock offset: 7.929 ms

Below is generated by plot.py at 2018-05-25 15:33:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 111.656 ms

Loss rate: 5.77%

-- Flow 1:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 107.912 ms

Loss rate: 6.60%

-- Flow 2:

Average throughput: 35.13 Mbit/s

95th percentile per-packet one-way delay: 113.373 ms

Loss rate: 4.45%

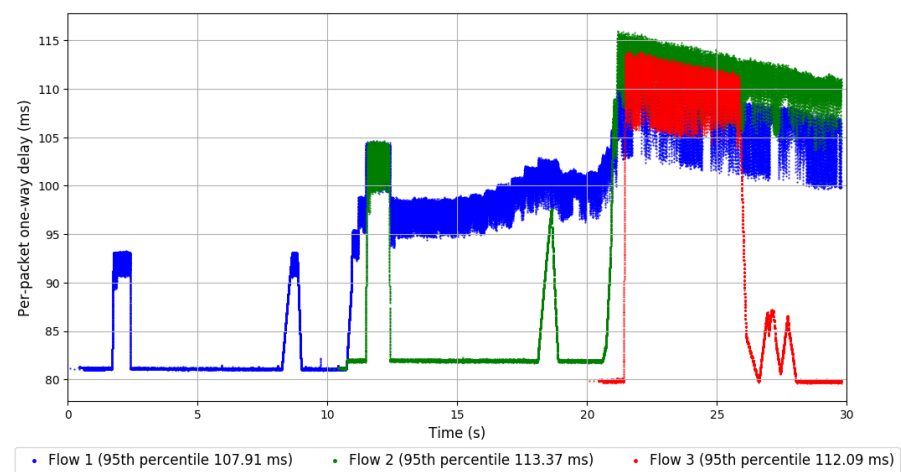
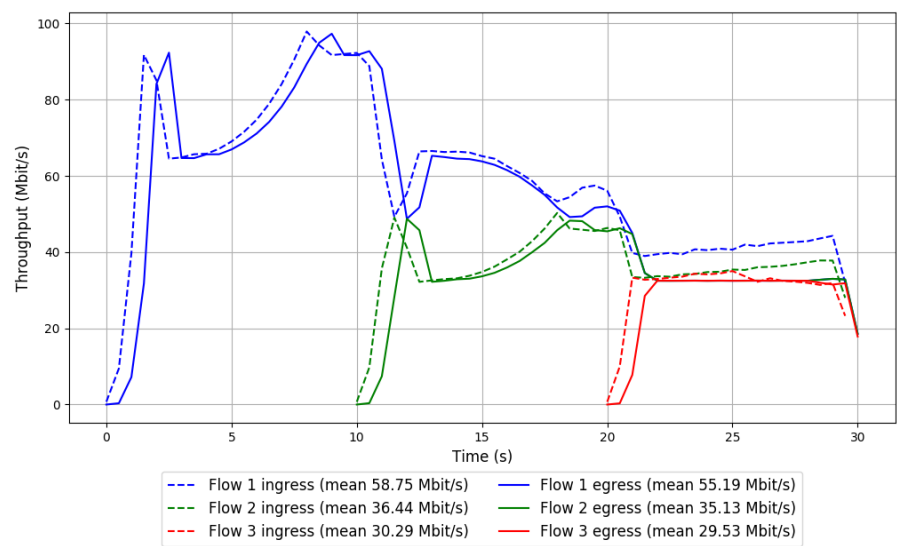
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 112.095 ms

Loss rate: 4.10%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 13:21:20

End at: 2018-05-25 13:21:50

Local clock offset: -1.909 ms

Remote clock offset: 6.564 ms

Below is generated by plot.py at 2018-05-25 15:33:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 110.981 ms

Loss rate: 5.82%

-- Flow 1:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 107.878 ms

Loss rate: 6.48%

-- Flow 2:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 111.844 ms

Loss rate: 4.91%

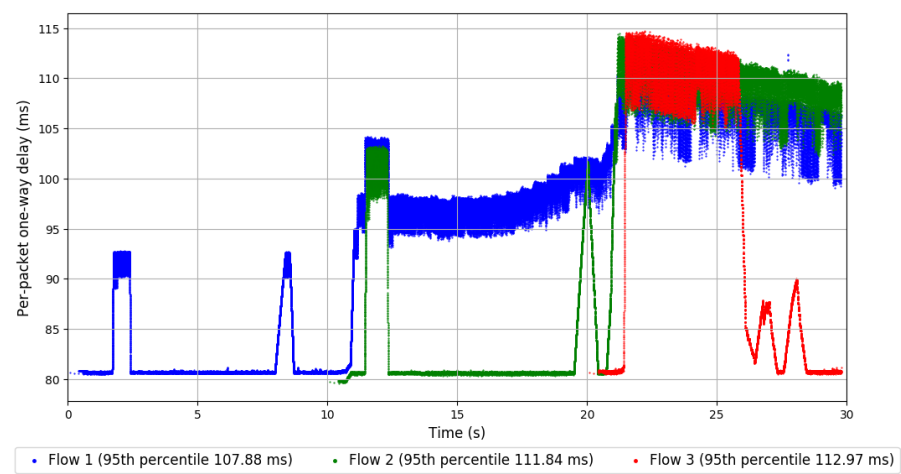
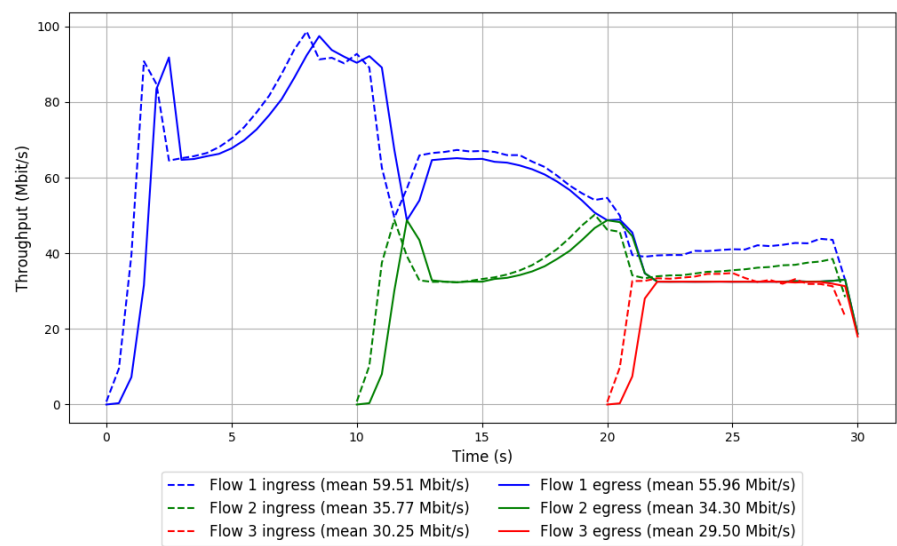
-- Flow 3:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 112.970 ms

Loss rate: 4.10%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

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

End at: 2018-05-25 13:41:29

Local clock offset: 0.035 ms

Remote clock offset: 2.849 ms

Below is generated by plot.py at 2018-05-25 15:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 116.189 ms

Loss rate: 6.10%

-- Flow 1:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 112.376 ms

Loss rate: 6.94%

-- Flow 2:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 117.884 ms

Loss rate: 4.88%

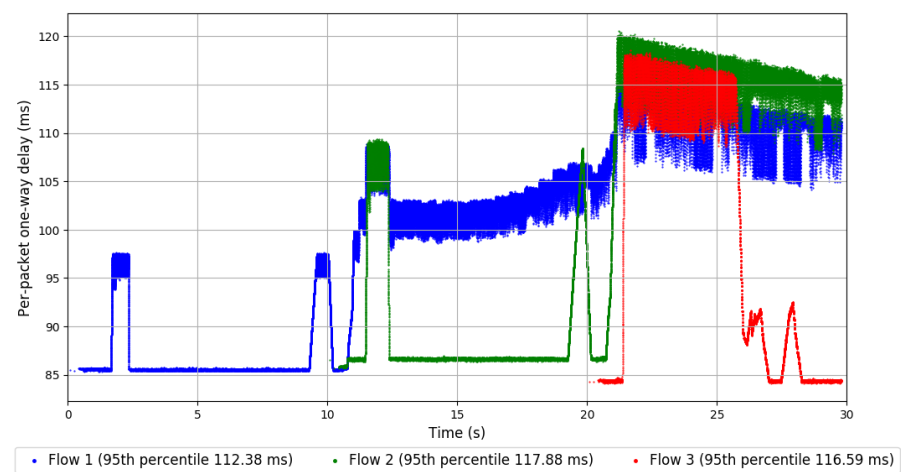
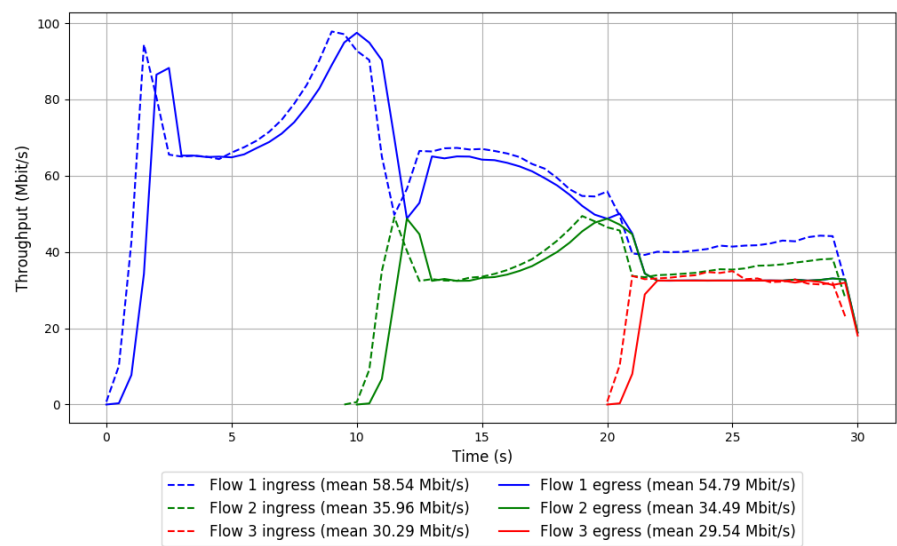
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 116.586 ms

Loss rate: 4.08%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 14:00:39

End at: 2018-05-25 14:01:09

Local clock offset: -2.219 ms

Remote clock offset: 4.371 ms

Below is generated by plot.py at 2018-05-25 15:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 116.023 ms

Loss rate: 7.76%

-- Flow 1:

Average throughput: 25.28 Mbit/s

95th percentile per-packet one-way delay: 116.648 ms

Loss rate: 4.49%

-- Flow 2:

Average throughput: 43.04 Mbit/s

95th percentile per-packet one-way delay: 112.863 ms

Loss rate: 11.42%

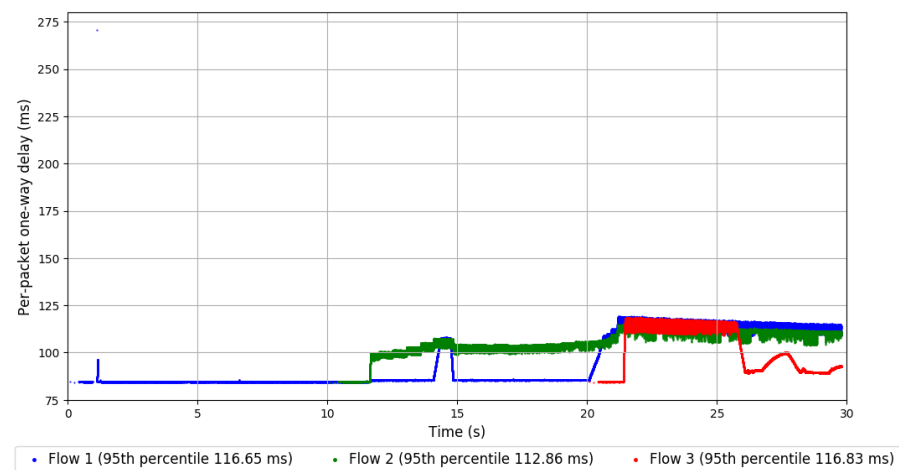
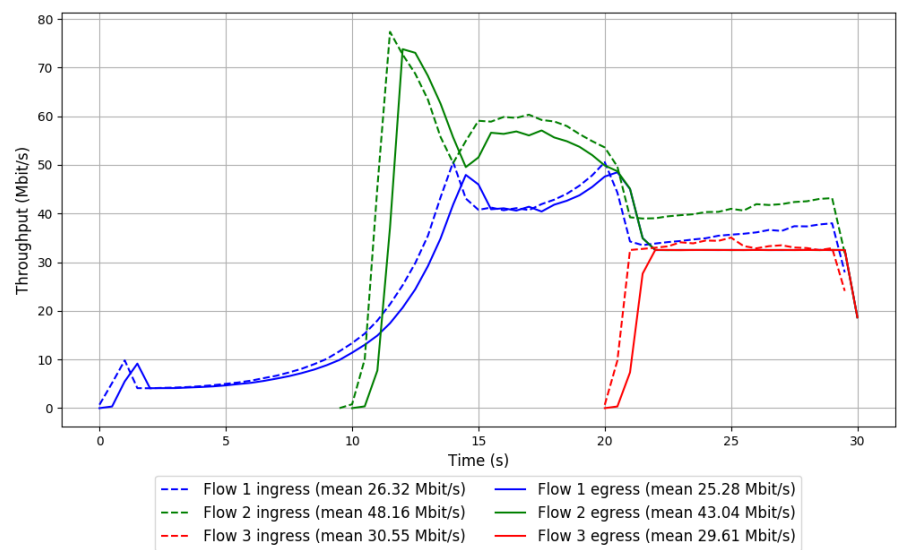
-- Flow 3:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 116.834 ms

Loss rate: 4.66%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 14:20:17

End at: 2018-05-25 14:20:47

Local clock offset: -9.112 ms

Remote clock offset: 8.42 ms

Below is generated by plot.py at 2018-05-25 15:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 112.311 ms

Loss rate: 5.79%

-- Flow 1:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 107.646 ms

Loss rate: 6.57%

-- Flow 2:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 114.168 ms

Loss rate: 4.42%

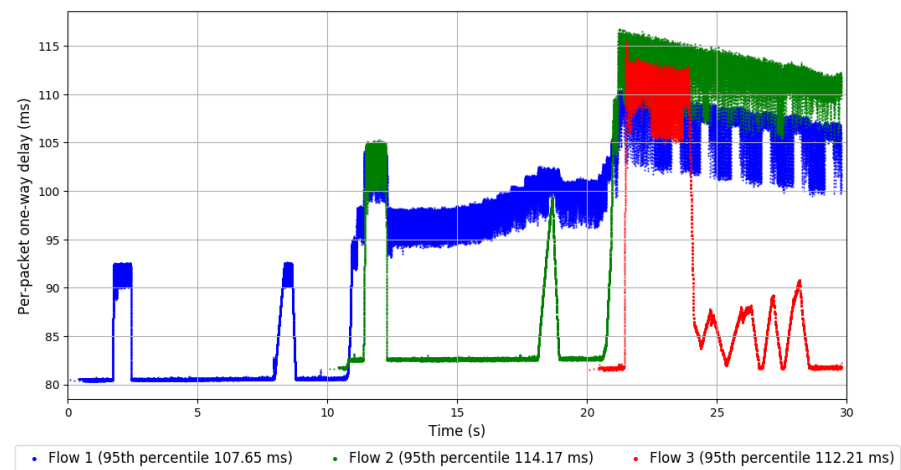
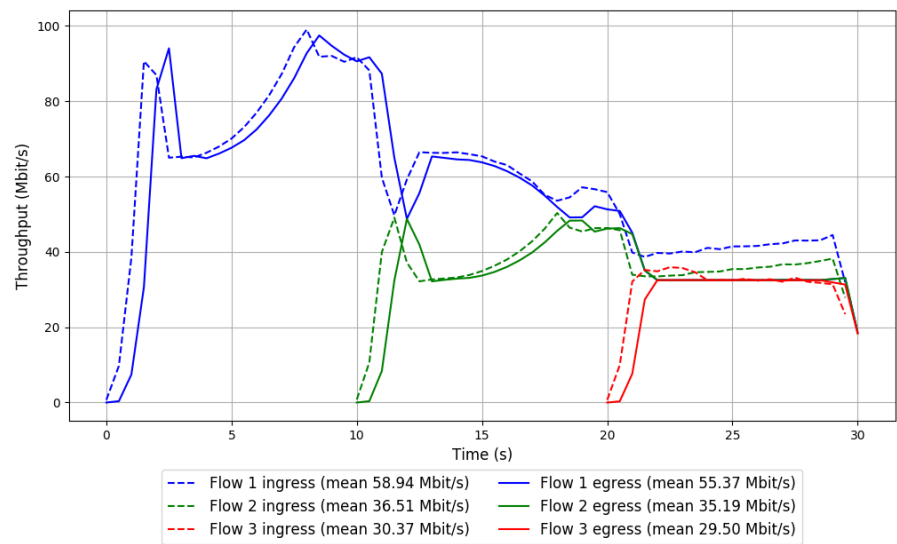
-- Flow 3:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 112.210 ms

Loss rate: 4.48%

Run 7: Report of PCC-Allegro — Data Link

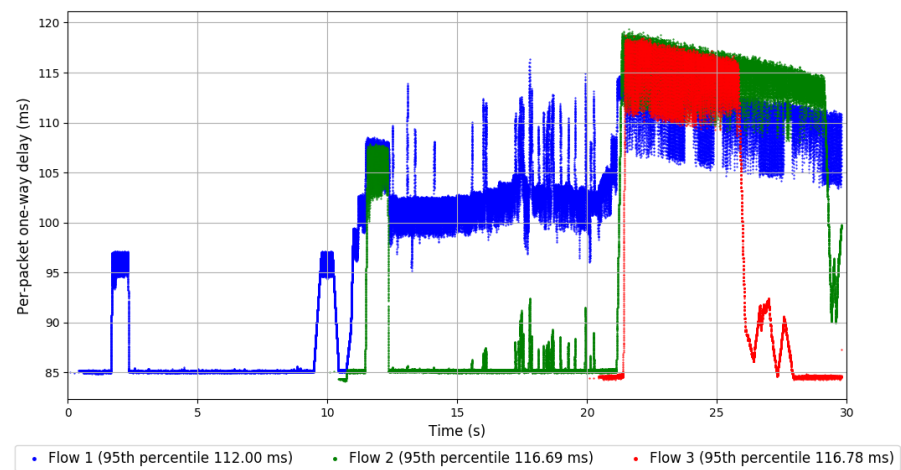
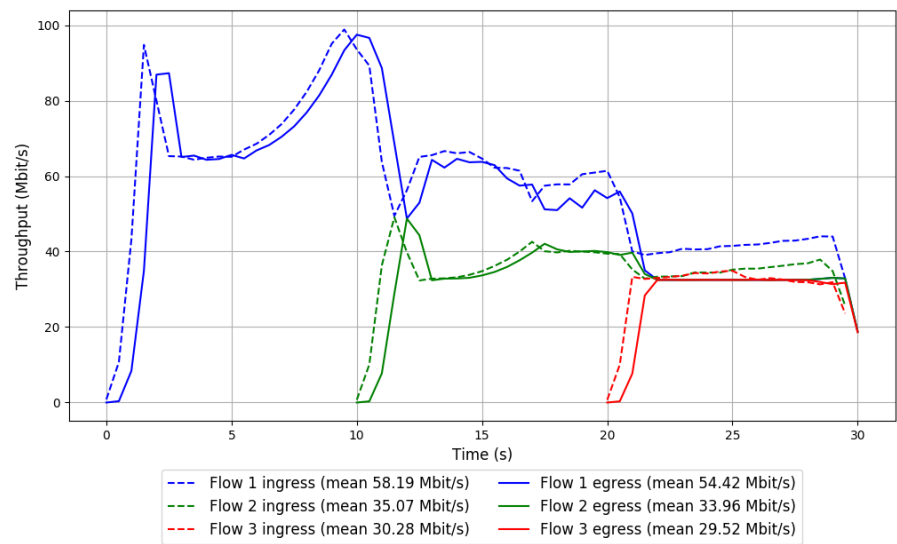


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 14:39:55
End at: 2018-05-25 14:40:25
Local clock offset: -3.516 ms
Remote clock offset: 11.884 ms

Below is generated by plot.py at 2018-05-25 15:34:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 115.478 ms
Loss rate: 5.92%
-- Flow 1:
Average throughput: 54.42 Mbit/s
95th percentile per-packet one-way delay: 112.005 ms
Loss rate: 7.02%
-- Flow 2:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 116.687 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 116.782 ms
Loss rate: 4.09%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 14:59:34

End at: 2018-05-25 15:00:04

Local clock offset: -2.54 ms

Remote clock offset: 7.881 ms

Below is generated by plot.py at 2018-05-25 15:34:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 115.705 ms

Loss rate: 5.98%

-- Flow 1:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 111.578 ms

Loss rate: 6.75%

-- Flow 2:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 116.294 ms

Loss rate: 4.57%

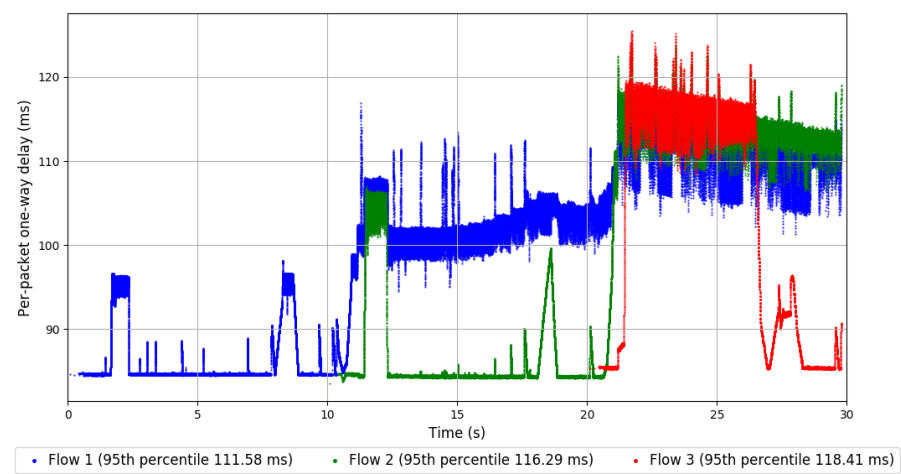
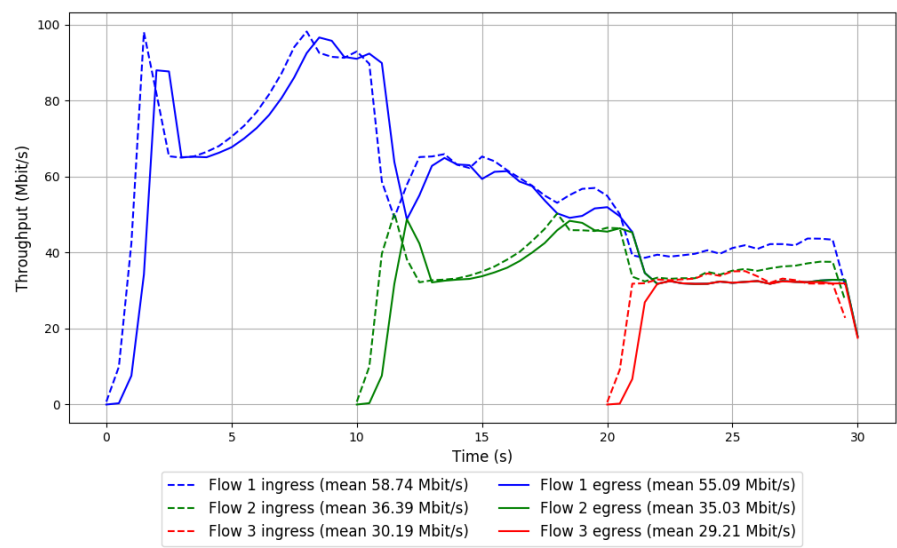
-- Flow 3:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 118.405 ms

Loss rate: 4.85%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 15:19:13

End at: 2018-05-25 15:19:43

Local clock offset: -3.059 ms

Remote clock offset: 2.959 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 117.117 ms

Loss rate: 5.80%

-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 110.737 ms

Loss rate: 6.63%

-- Flow 2:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 118.303 ms

Loss rate: 4.37%

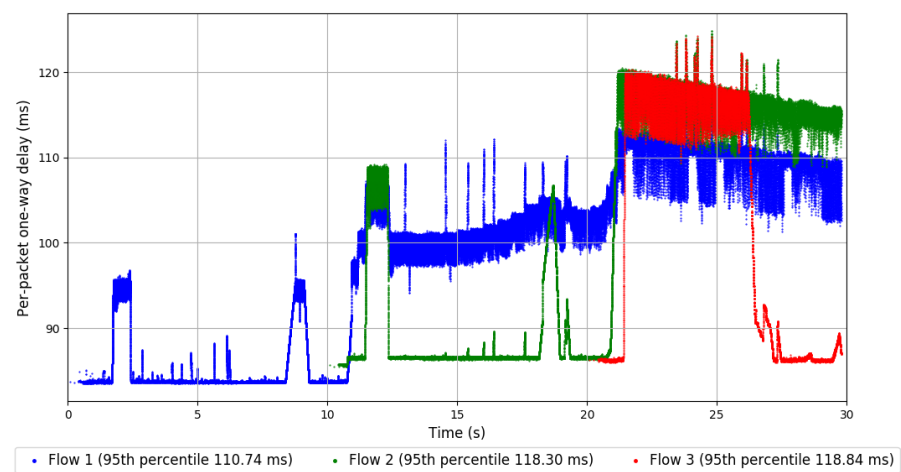
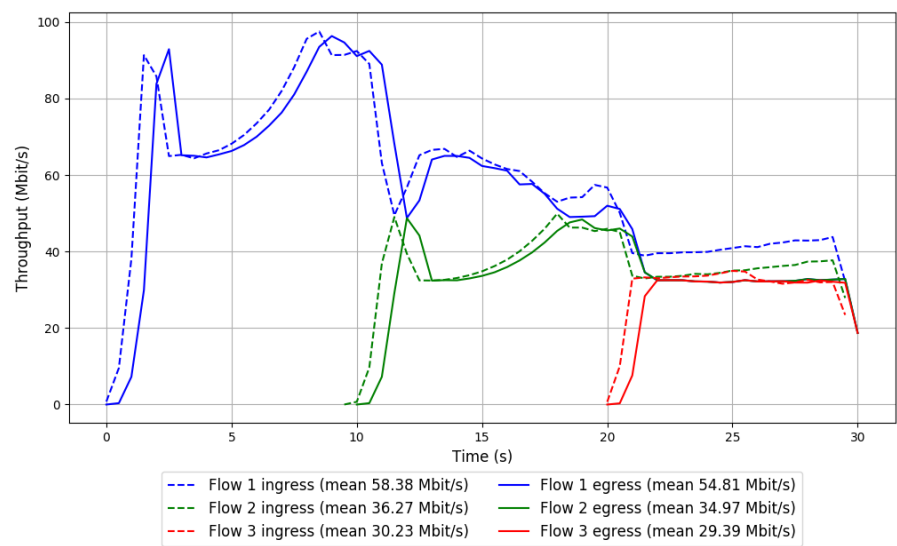
-- Flow 3:

Average throughput: 29.39 Mbit/s

95th percentile per-packet one-way delay: 118.841 ms

Loss rate: 4.39%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 12:15:06

End at: 2018-05-25 12:15:36

Local clock offset: -7.021 ms

Remote clock offset: 9.389 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 12:34:45

End at: 2018-05-25 12:35:15

Local clock offset: -8.064 ms

Remote clock offset: 15.582 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 12:54:24

End at: 2018-05-25 12:54:54

Local clock offset: -7.536 ms

Remote clock offset: 9.562 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 13:14:03

End at: 2018-05-25 13:14:33

Local clock offset: -1.854 ms

Remote clock offset: 2.91 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 13:33:41

End at: 2018-05-25 13:34:11

Local clock offset: -0.303 ms

Remote clock offset: 6.678 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 13:53:21

End at: 2018-05-25 13:53:51

Local clock offset: 0.727 ms

Remote clock offset: 3.457 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 14:12:59

End at: 2018-05-25 14:13:29

Local clock offset: -7.222 ms

Remote clock offset: 6.835 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 14:32:38

End at: 2018-05-25 14:33:08

Local clock offset: -5.731 ms

Remote clock offset: 15.148 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 14:52:16

End at: 2018-05-25 14:52:46

Local clock offset: -2.788 ms

Remote clock offset: 12.706 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 15:11:55

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

Local clock offset: -3.947 ms

Remote clock offset: 7.503 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

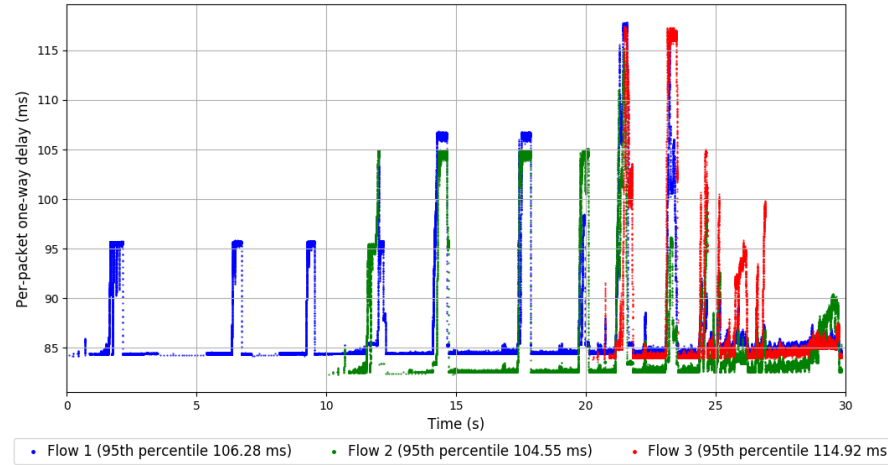
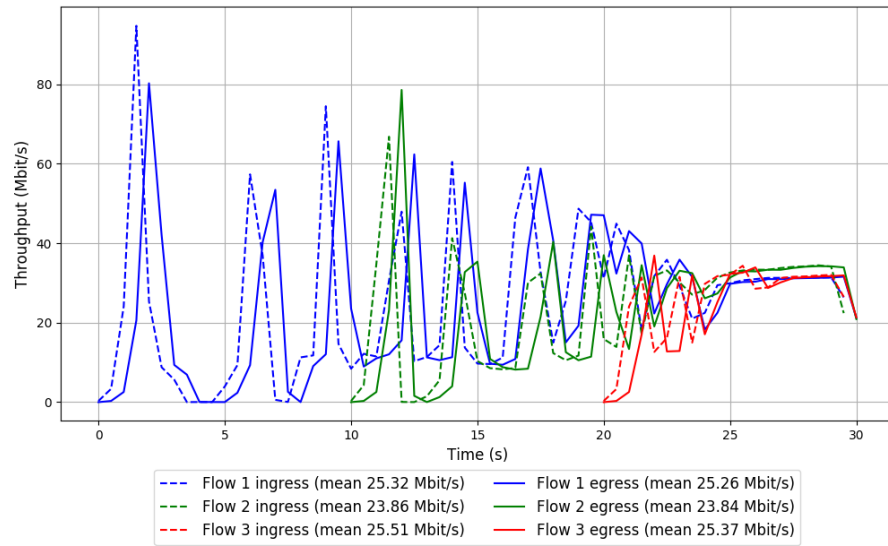
Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 12:19:57
End at: 2018-05-25 12:20:27
Local clock offset: -8.212 ms
Remote clock offset: 10.396 ms

Below is generated by plot.py at 2018-05-25 15:35:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.38 Mbit/s
95th percentile per-packet one-way delay: 105.789 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 106.277 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 104.547 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 25.37 Mbit/s
95th percentile per-packet one-way delay: 114.919 ms
Loss rate: 2.19%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 12:39:36

End at: 2018-05-25 12:40:06

Local clock offset: -7.321 ms

Remote clock offset: 9.401 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 105.465 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 103.174 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 105.307 ms

Loss rate: 1.23%

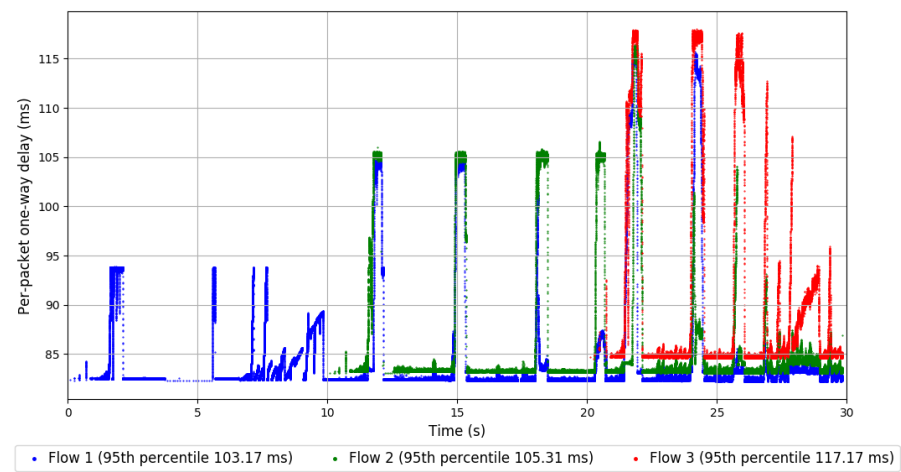
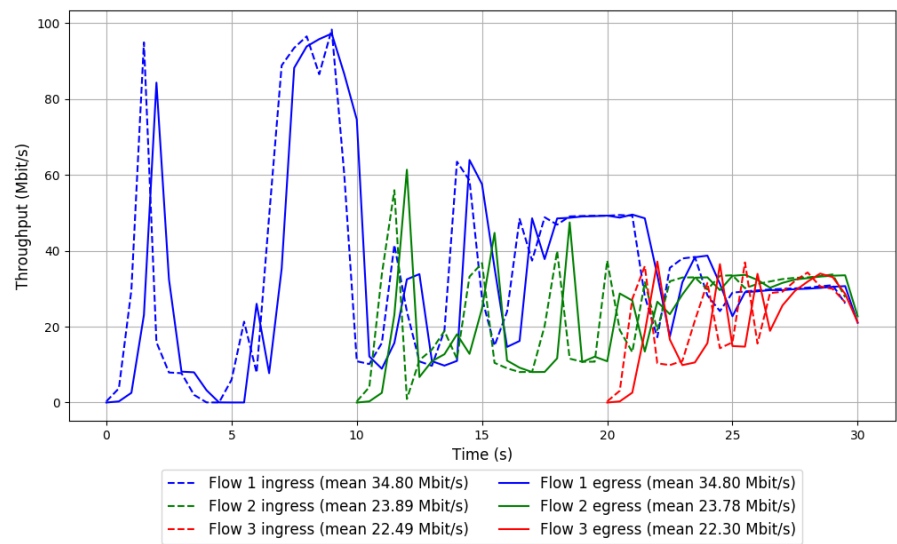
-- Flow 3:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 117.174 ms

Loss rate: 2.50%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 12:59:15

End at: 2018-05-25 12:59:45

Local clock offset: -6.234 ms

Remote clock offset: 8.963 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 101.261 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 27.70 Mbit/s

95th percentile per-packet one-way delay: 93.499 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 24.27 Mbit/s

95th percentile per-packet one-way delay: 101.221 ms

Loss rate: 1.10%

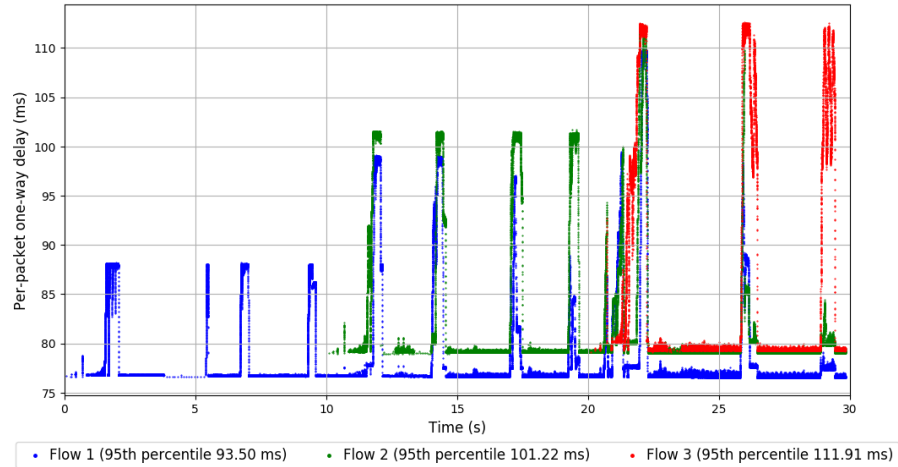
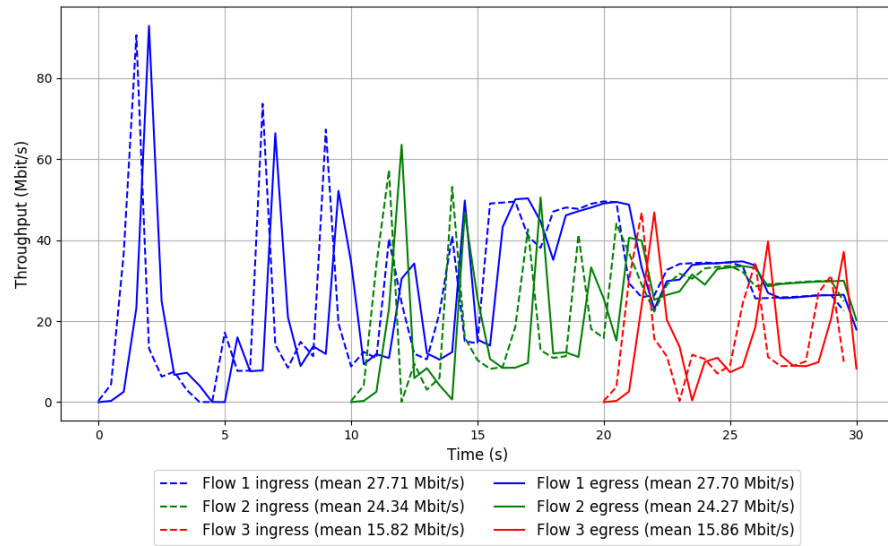
-- Flow 3:

Average throughput: 15.86 Mbit/s

95th percentile per-packet one-way delay: 111.907 ms

Loss rate: 1.42%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 13:18:53

End at: 2018-05-25 13:19:23

Local clock offset: -2.085 ms

Remote clock offset: 6.632 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 103.218 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 30.16 Mbit/s

95th percentile per-packet one-way delay: 103.213 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 101.545 ms

Loss rate: 1.21%

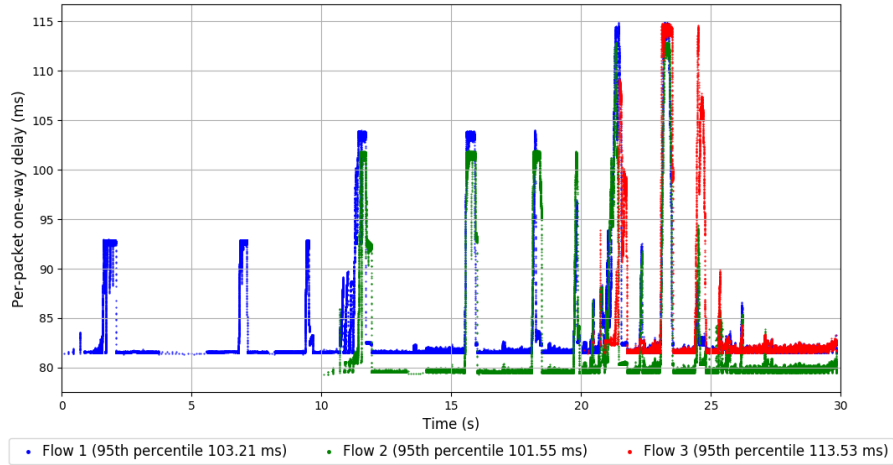
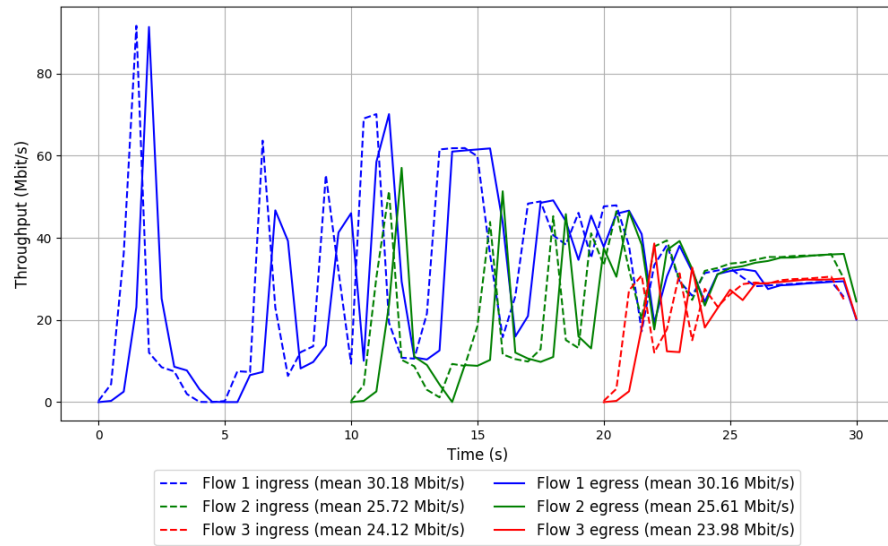
-- Flow 3:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 113.534 ms

Loss rate: 2.24%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 13:38:32

End at: 2018-05-25 13:39:02

Local clock offset: -0.048 ms

Remote clock offset: 3.568 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.68 Mbit/s

95th percentile per-packet one-way delay: 107.271 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 104.335 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 22.60 Mbit/s

95th percentile per-packet one-way delay: 107.551 ms

Loss rate: 1.23%

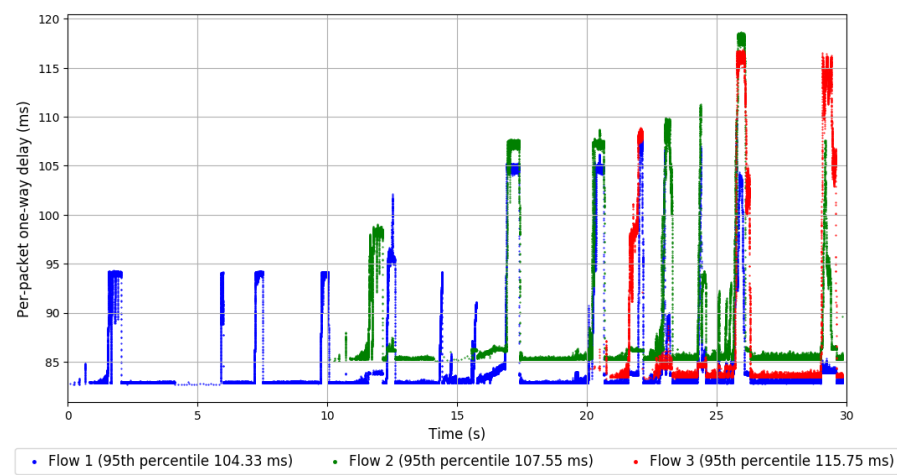
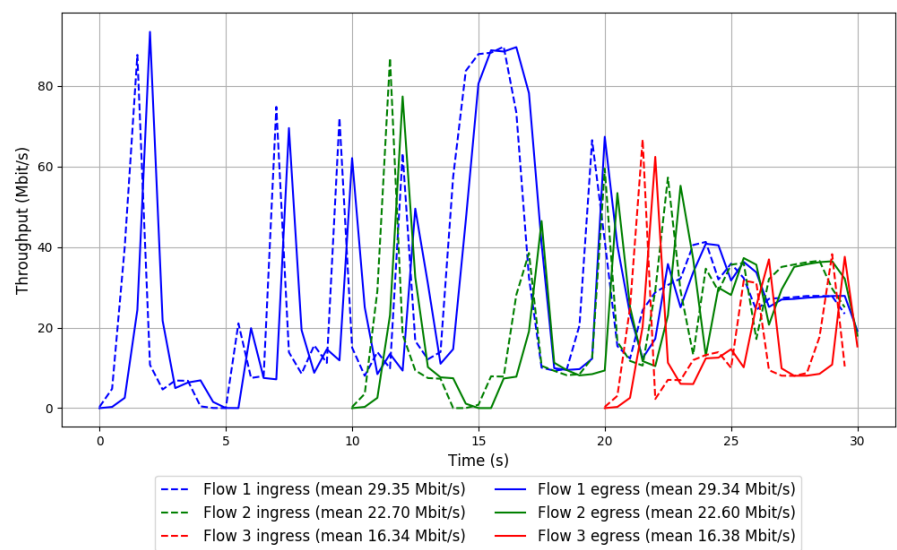
-- Flow 3:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 115.755 ms

Loss rate: 1.40%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 13:58:12

End at: 2018-05-25 13:58:42

Local clock offset: -0.597 ms

Remote clock offset: 9.088 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.01 Mbit/s

95th percentile per-packet one-way delay: 111.240 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 101.007 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 24.66 Mbit/s

95th percentile per-packet one-way delay: 111.295 ms

Loss rate: 1.02%

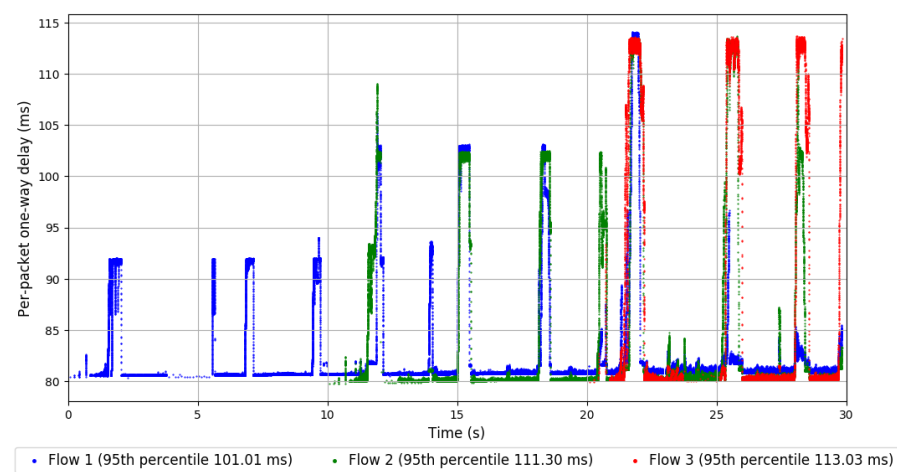
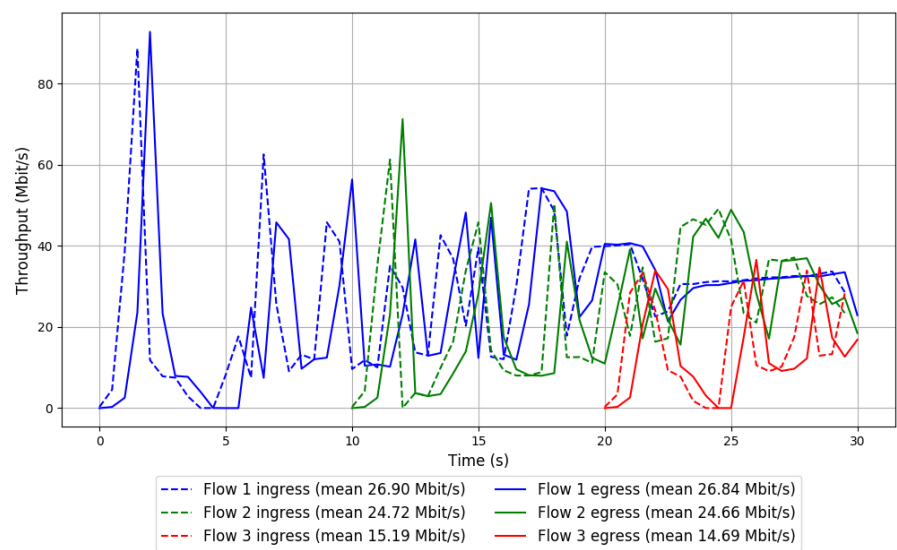
-- Flow 3:

Average throughput: 14.69 Mbit/s

95th percentile per-packet one-way delay: 113.030 ms

Loss rate: 4.90%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 14:17:50

End at: 2018-05-25 14:18:20

Local clock offset: -7.25 ms

Remote clock offset: 4.522 ms

Below is generated by plot.py at 2018-05-25 15:35:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 110.110 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 29.63 Mbit/s

95th percentile per-packet one-way delay: 105.799 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 22.92 Mbit/s

95th percentile per-packet one-way delay: 109.517 ms

Loss rate: 1.24%

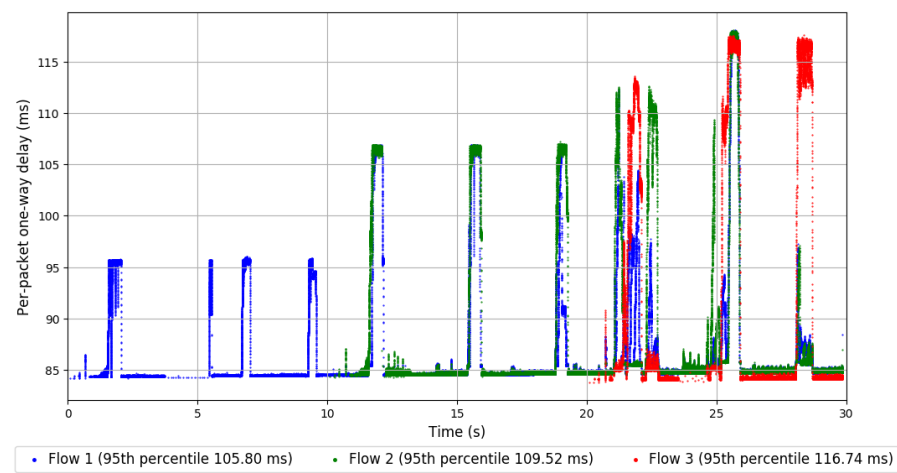
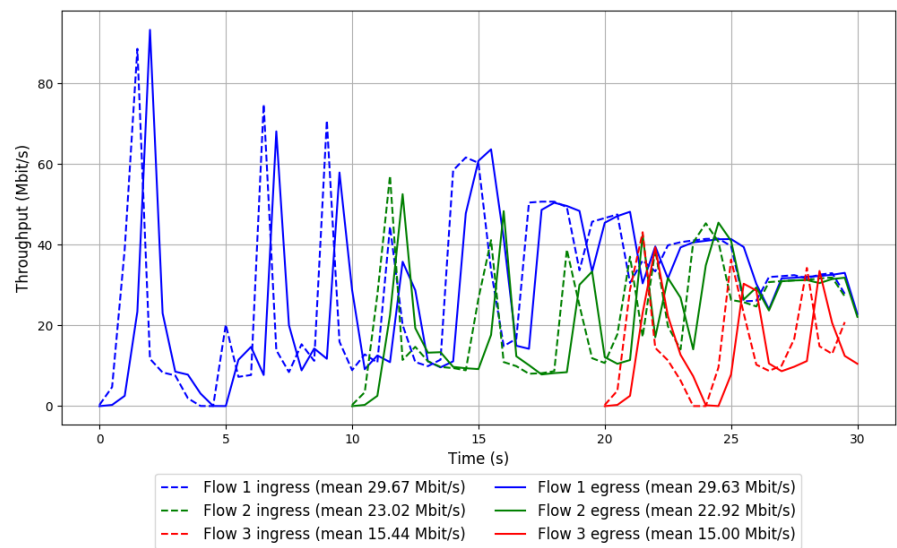
-- Flow 3:

Average throughput: 15.00 Mbit/s

95th percentile per-packet one-way delay: 116.744 ms

Loss rate: 4.48%

Run 7: Report of QUIC Cubic — Data Link

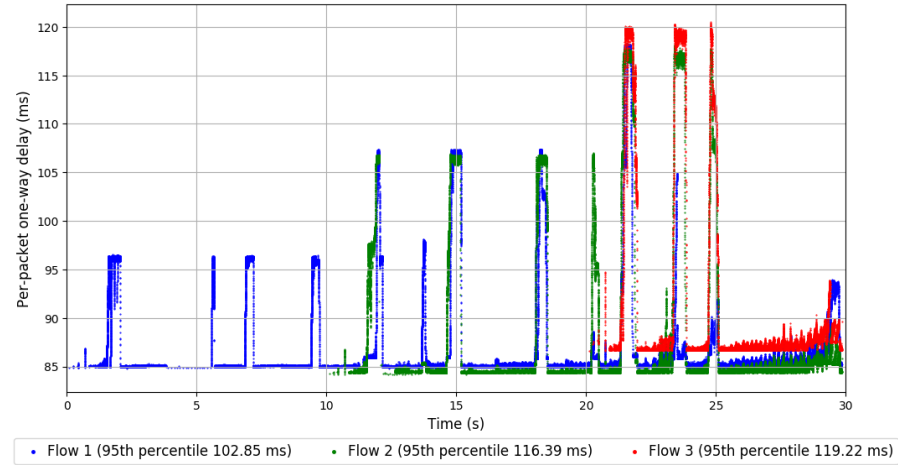
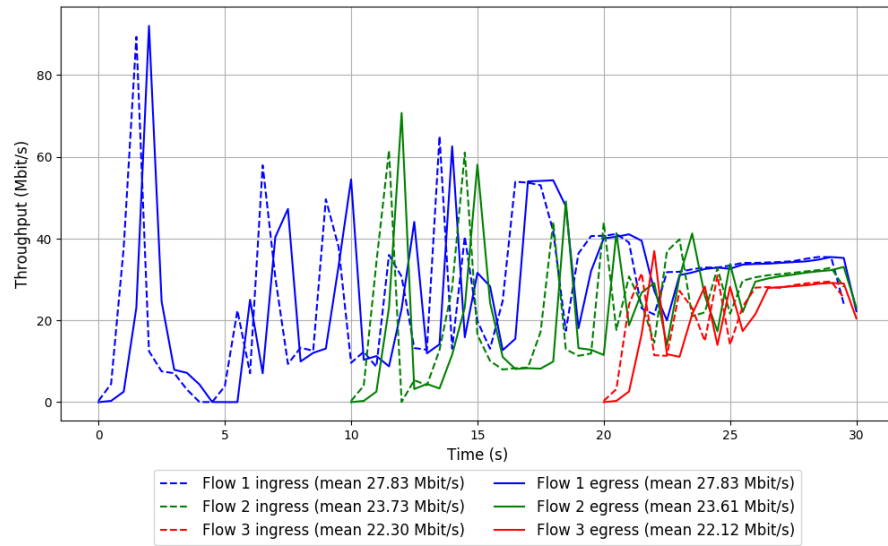


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 14:37:29
End at: 2018-05-25 14:37:59
Local clock offset: -3.84 ms
Remote clock offset: 10.728 ms

Below is generated by plot.py at 2018-05-25 15:35:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 110.386 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 102.848 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 116.385 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 22.12 Mbit/s
95th percentile per-packet one-way delay: 119.215 ms
Loss rate: 2.40%

Run 8: Report of QUIC Cubic — Data Link

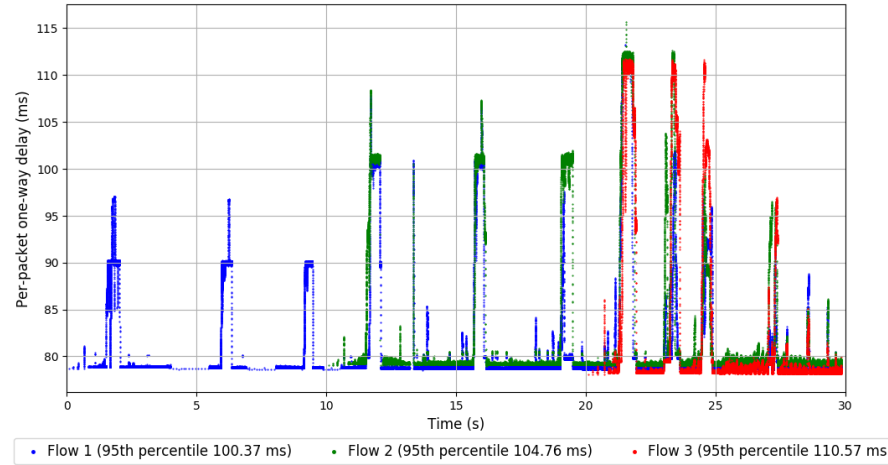
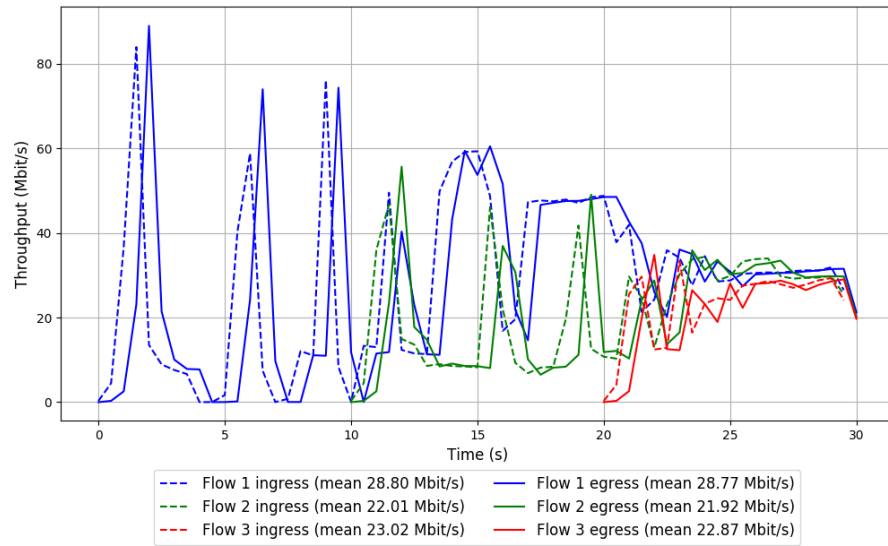


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 14:57:07
End at: 2018-05-25 14:57:37
Local clock offset: -3.335 ms
Remote clock offset: 13.059 ms

Below is generated by plot.py at 2018-05-25 15:35:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.80 Mbit/s
95th percentile per-packet one-way delay: 101.508 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 28.77 Mbit/s
95th percentile per-packet one-way delay: 100.367 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 104.760 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 110.567 ms
Loss rate: 2.26%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 15:16:46

End at: 2018-05-25 15:17:16

Local clock offset: -3.079 ms

Remote clock offset: 7.764 ms

Below is generated by plot.py at 2018-05-25 15:35:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.39 Mbit/s

95th percentile per-packet one-way delay: 103.343 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 102.342 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 103.459 ms

Loss rate: 1.25%

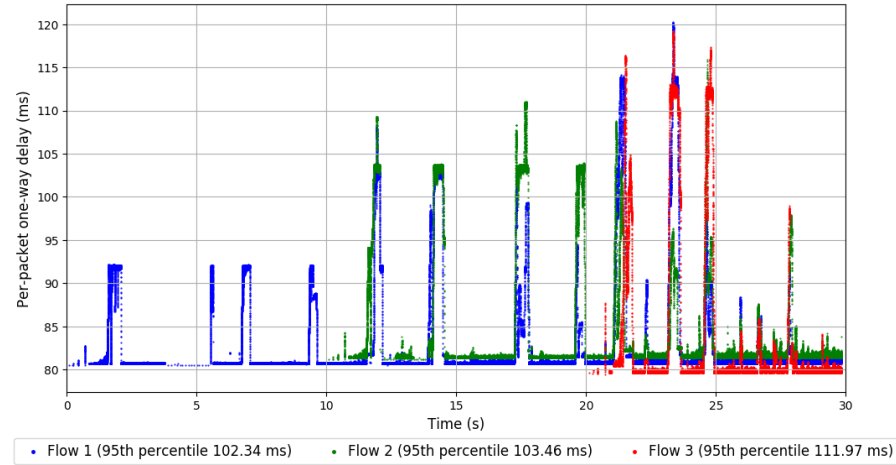
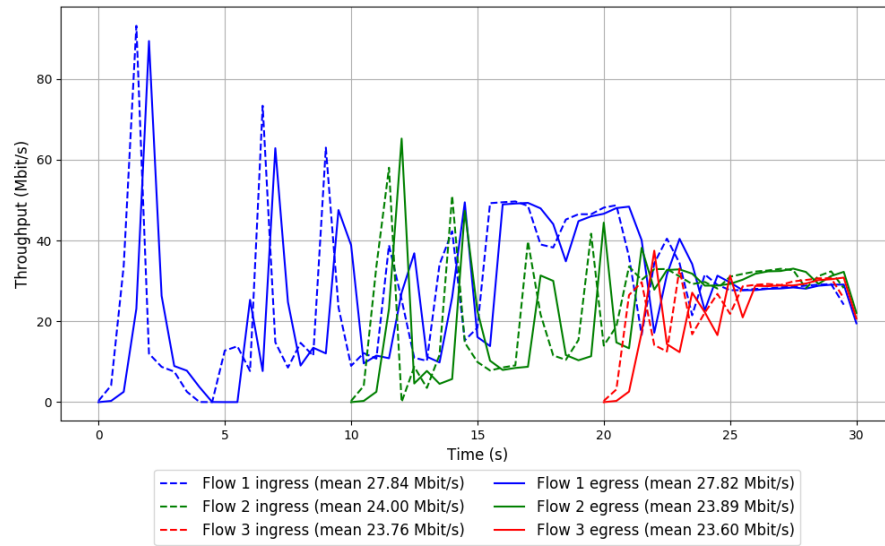
-- Flow 3:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 111.971 ms

Loss rate: 2.28%

Run 10: Report of QUIC Cubic — Data Link

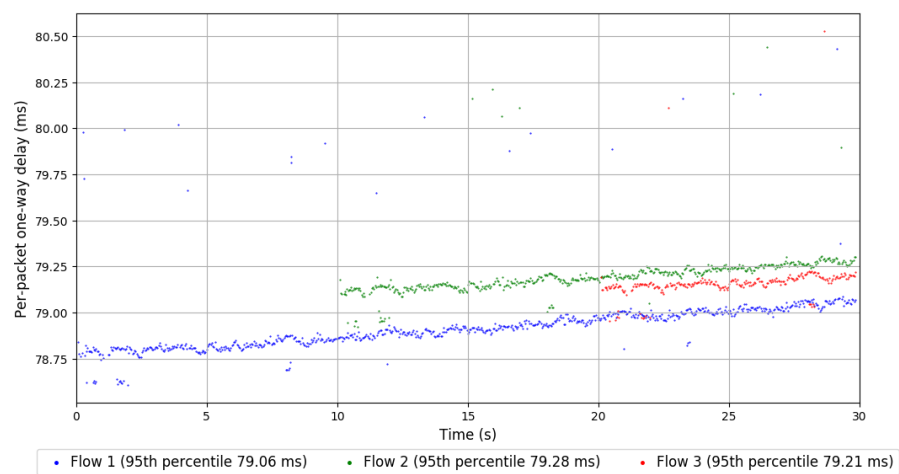
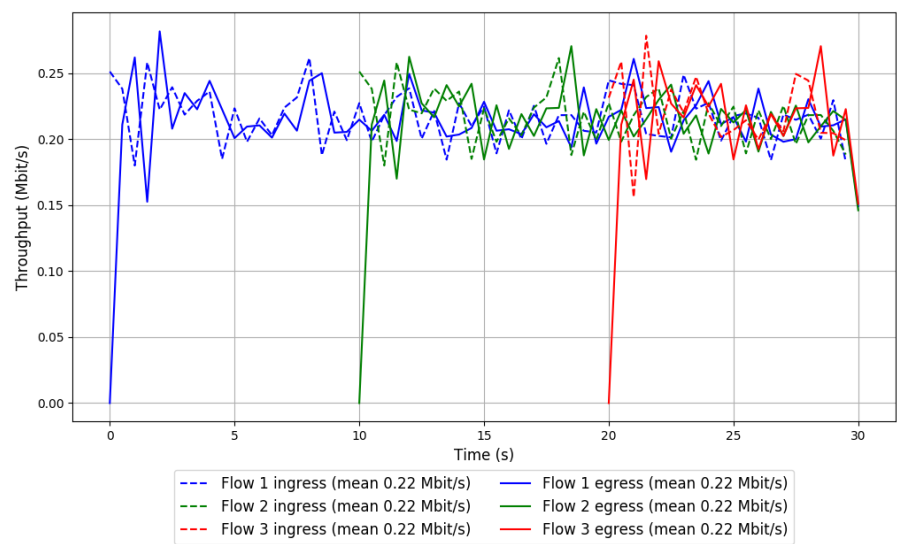


Run 1: Statistics of SReAM

Start at: 2018-05-25 12:07:43
End at: 2018-05-25 12:08:13
Local clock offset: -6.097 ms
Remote clock offset: 10.702 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.263 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.063 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.282 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.214 ms
Loss rate: 1.45%

Run 1: Report of SReAM — Data Link

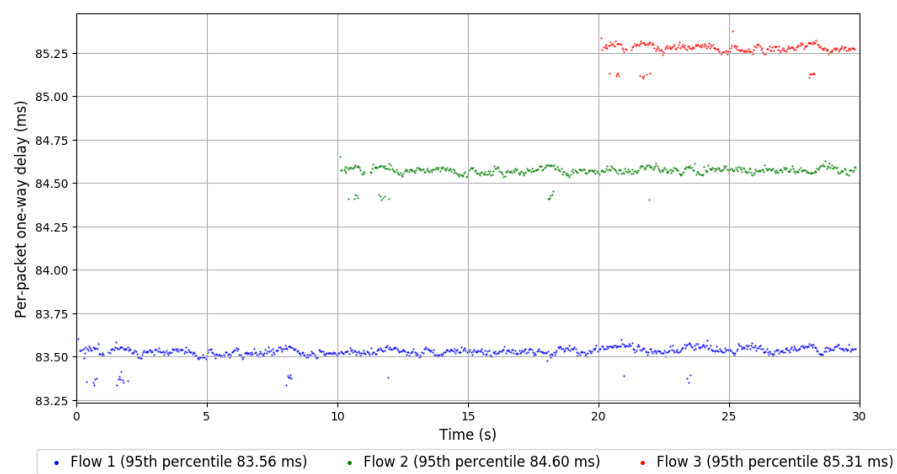
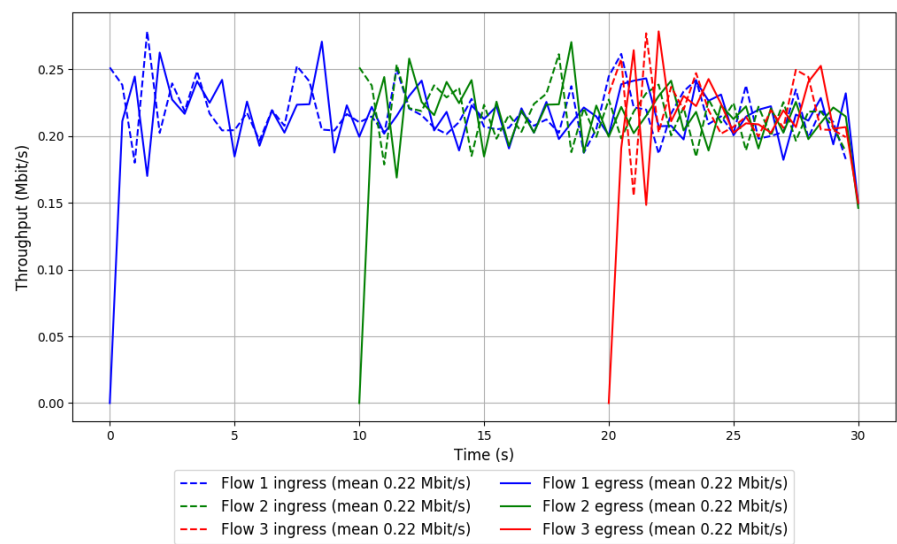


Run 2: Statistics of SReAM

Start at: 2018-05-25 12:27:22
End at: 2018-05-25 12:27:52
Local clock offset: -7.646 ms
Remote clock offset: 11.683 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.289 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.564 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.599 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.307 ms
Loss rate: 1.84%

Run 2: Report of SReAM — Data Link

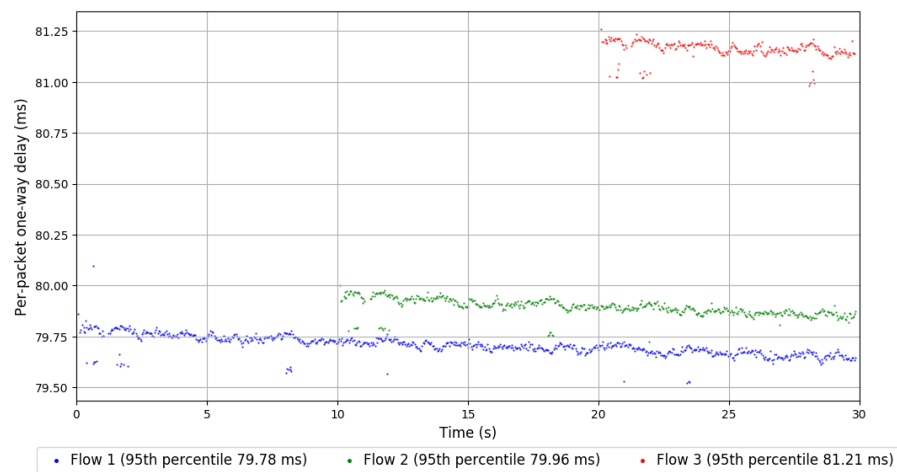
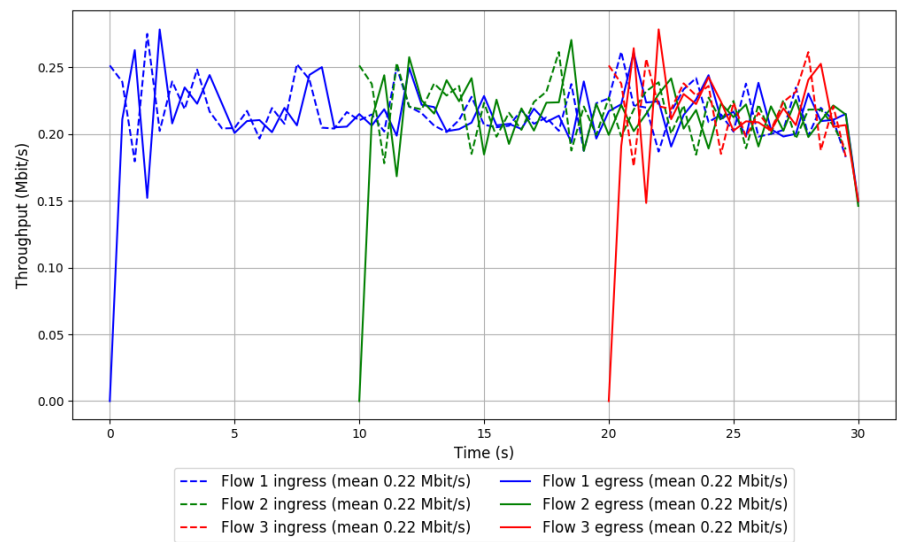


Run 3: Statistics of SReAM

Start at: 2018-05-25 12:47:02
End at: 2018-05-25 12:47:32
Local clock offset: -7.356 ms
Remote clock offset: 9.268 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.185 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.780 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.958 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.210 ms
Loss rate: 1.84%

Run 3: Report of SReAM — Data Link

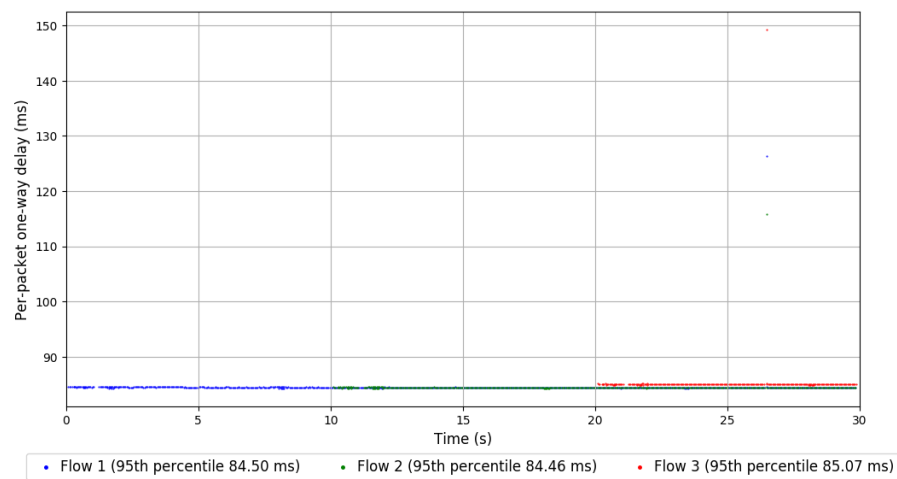
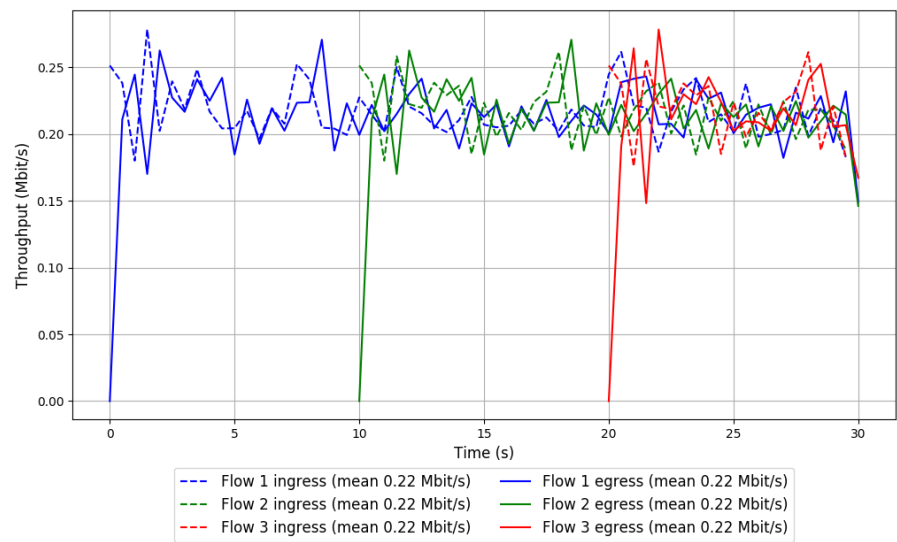


Run 4: Statistics of SReAM

Start at: 2018-05-25 13:06:40
End at: 2018-05-25 13:07:10
Local clock offset: -3.098 ms
Remote clock offset: 3.79 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.043 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.497 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.462 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.069 ms
Loss rate: 1.45%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-25 13:26:19

End at: 2018-05-25 13:26:49

Local clock offset: 0.016 ms

Remote clock offset: 2.853 ms

Below is generated by plot.py at 2018-05-25 15:35:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 86.607 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.788 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.619 ms

Loss rate: 0.82%

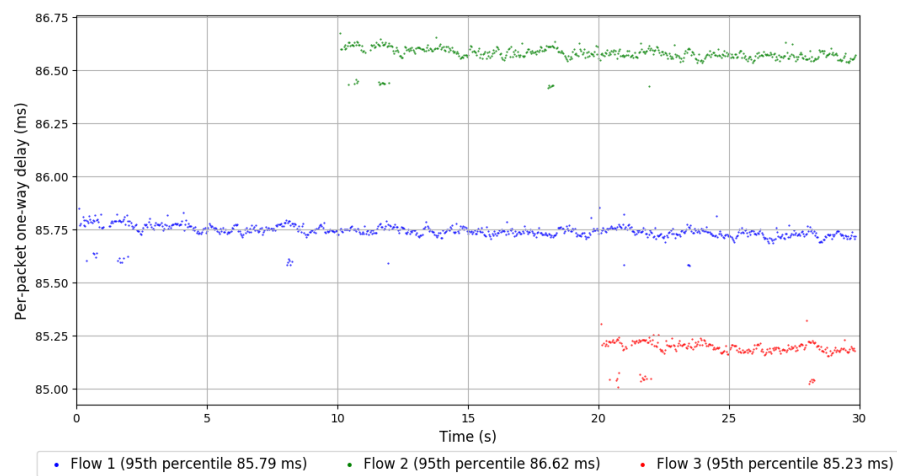
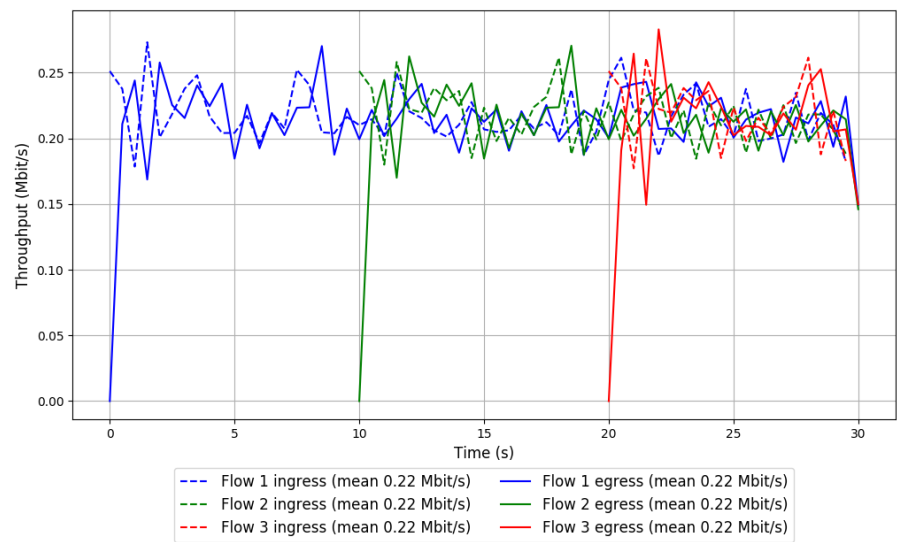
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.231 ms

Loss rate: 1.84%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-25 13:45:58

End at: 2018-05-25 13:46:28

Local clock offset: 1.115 ms

Remote clock offset: 3.793 ms

Below is generated by plot.py at 2018-05-25 15:35:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 85.757 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.668 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.443 ms

Loss rate: 0.82%

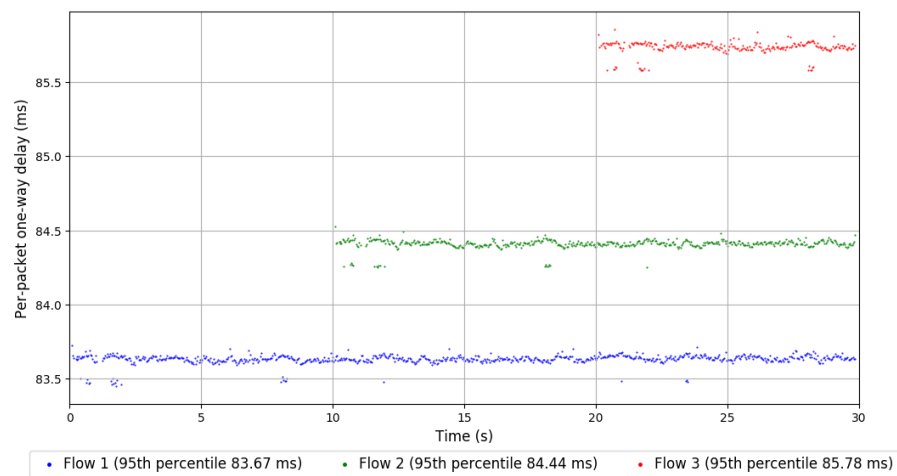
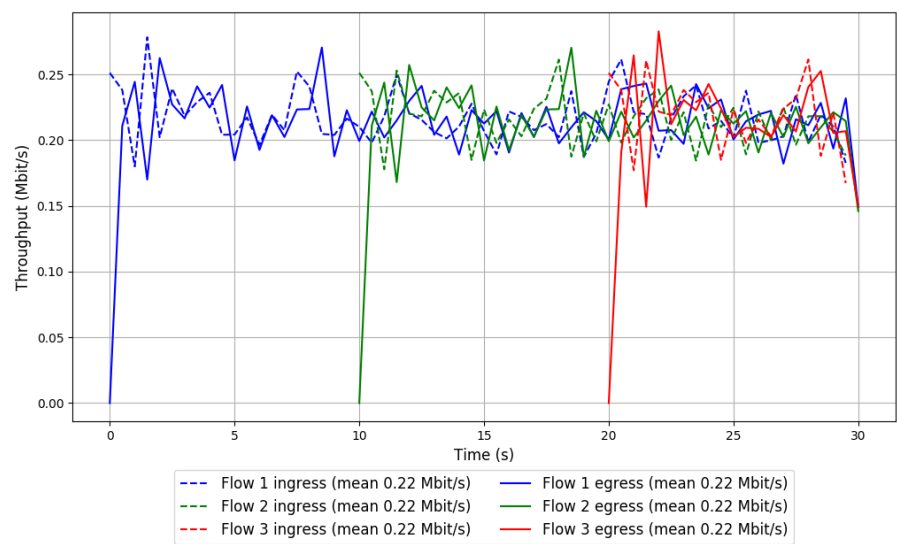
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.776 ms

Loss rate: 1.49%

Run 6: Report of SReAM — Data Link

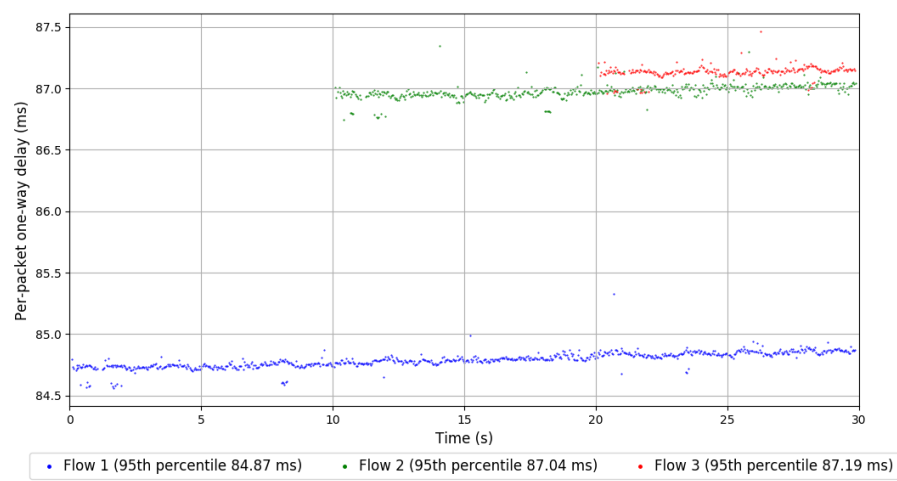
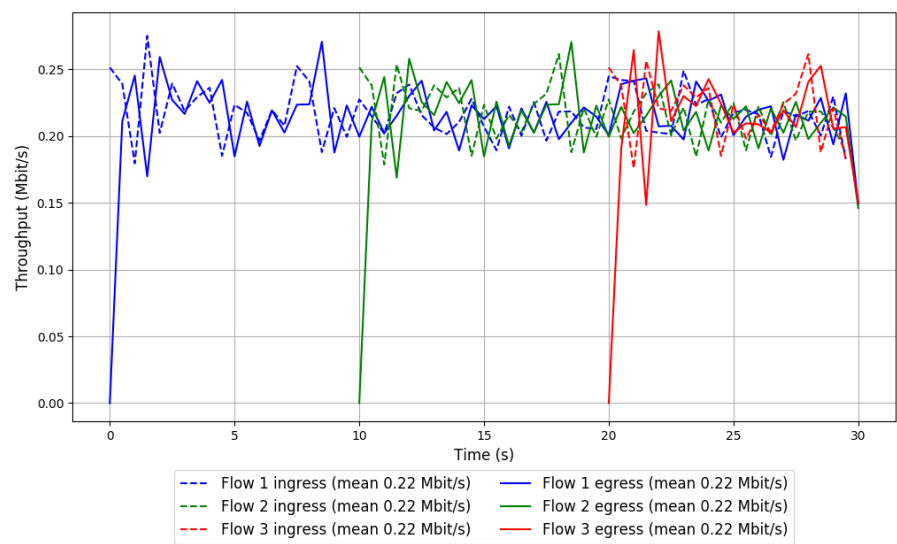


Run 7: Statistics of SReAM

Start at: 2018-05-25 14:05:37
End at: 2018-05-25 14:06:07
Local clock offset: -4.436 ms
Remote clock offset: 3.54 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.147 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.870 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.041 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.192 ms
Loss rate: 1.84%

Run 7: Report of SReAM — Data Link

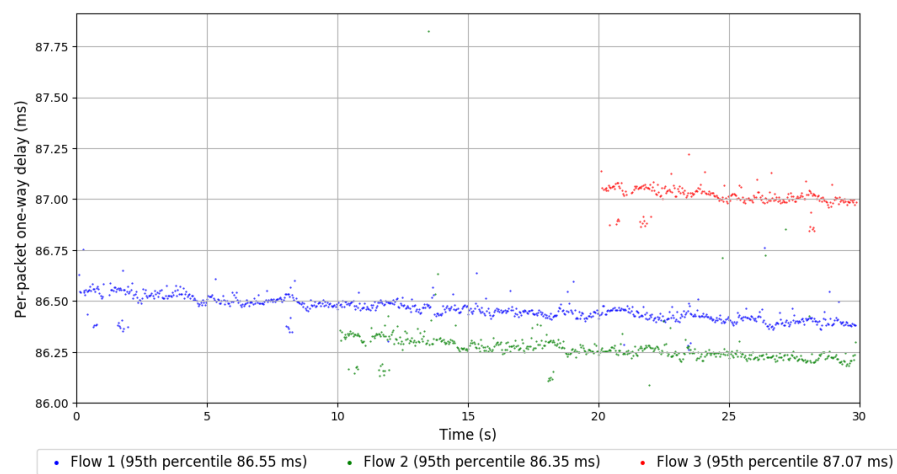
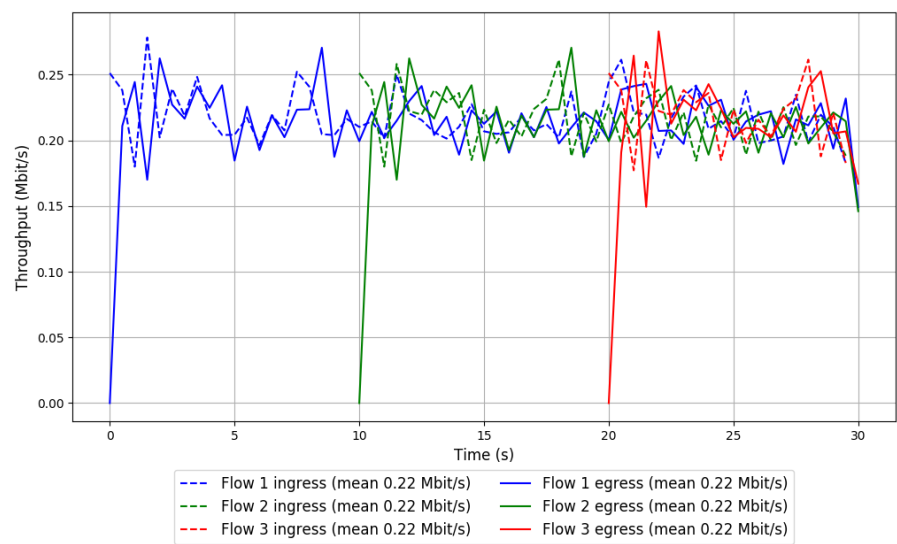


Run 8: Statistics of SReAM

Start at: 2018-05-25 14:25:16
End at: 2018-05-25 14:25:46
Local clock offset: -8.234 ms
Remote clock offset: 7.31 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.038 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.554 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.346 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.073 ms
Loss rate: 1.45%

Run 8: Report of SReAM — Data Link

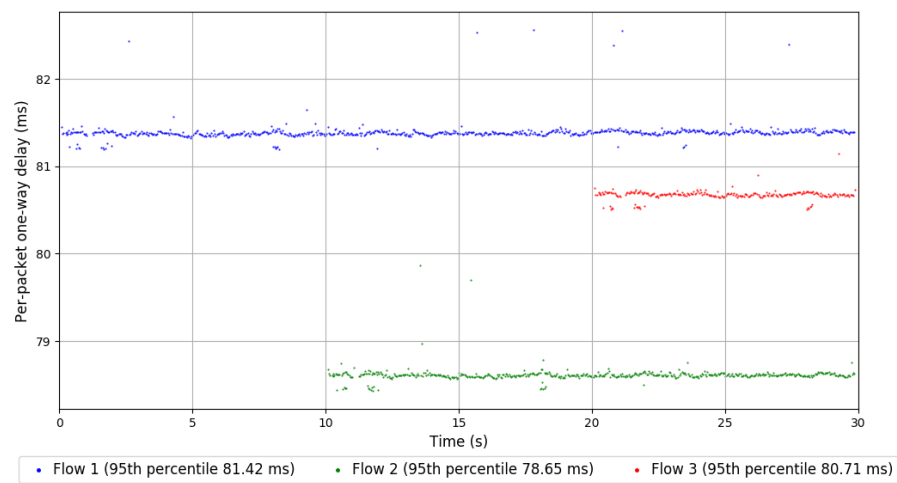
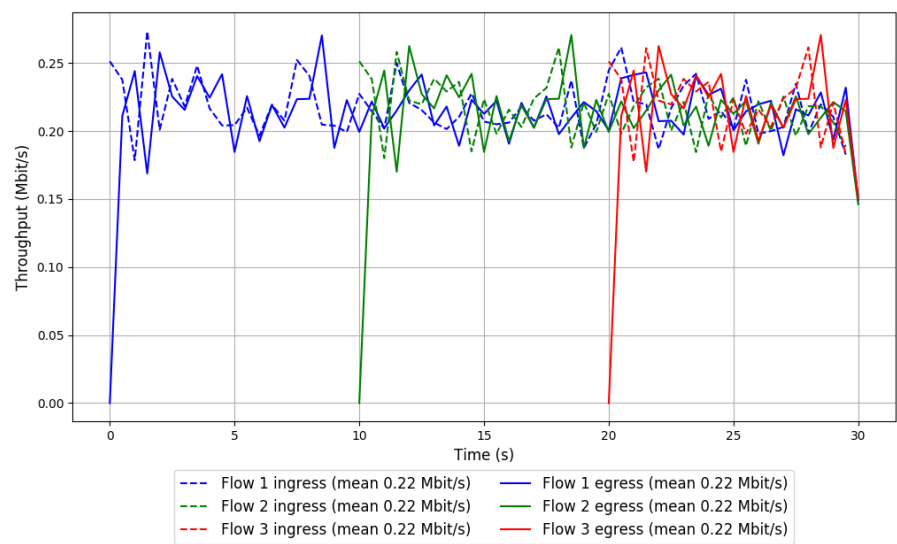


Run 9: Statistics of SReAM

Start at: 2018-05-25 14:44:54
End at: 2018-05-25 14:45:24
Local clock offset: -3.876 ms
Remote clock offset: 16.498 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.411 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.424 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.646 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.714 ms
Loss rate: 1.45%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-25 15:04:33

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

Local clock offset: -3.215 ms

Remote clock offset: 8.999 ms

Below is generated by plot.py at 2018-05-25 15:35:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 80.291 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.981 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.311 ms

Loss rate: 0.82%

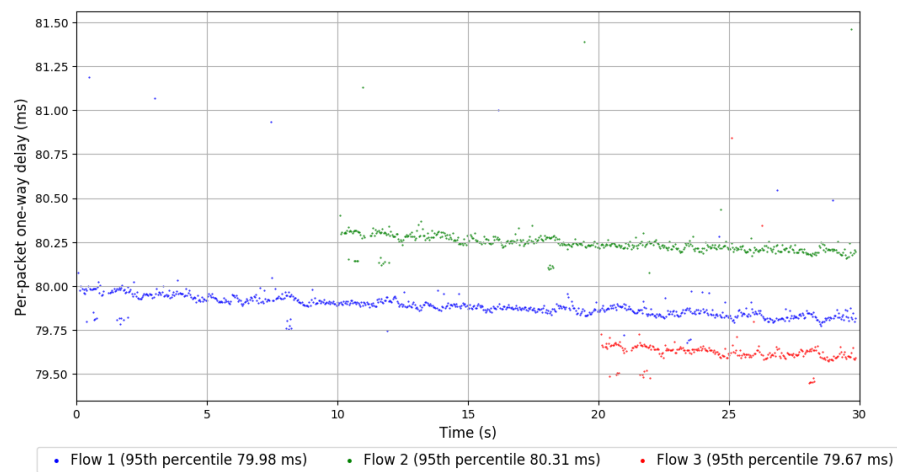
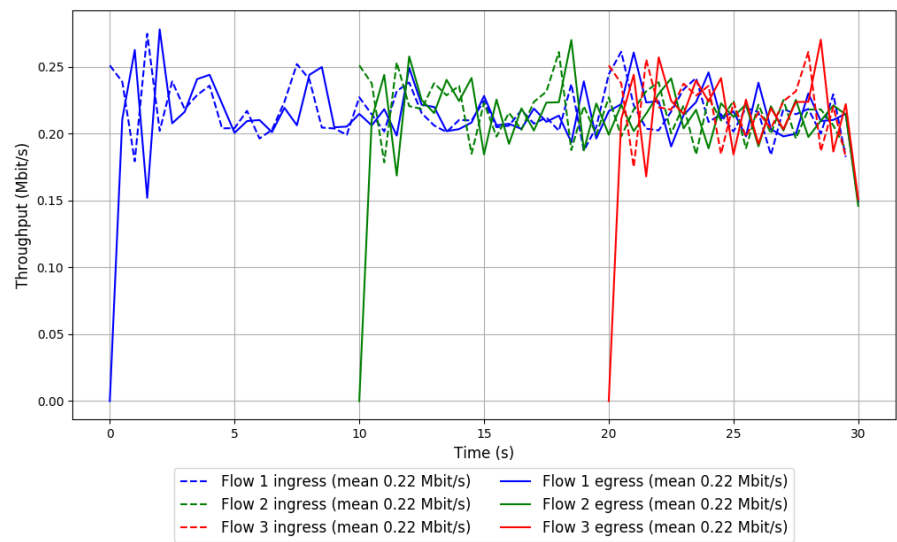
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.674 ms

Loss rate: 1.45%

Run 10: Report of SReAM — Data Link

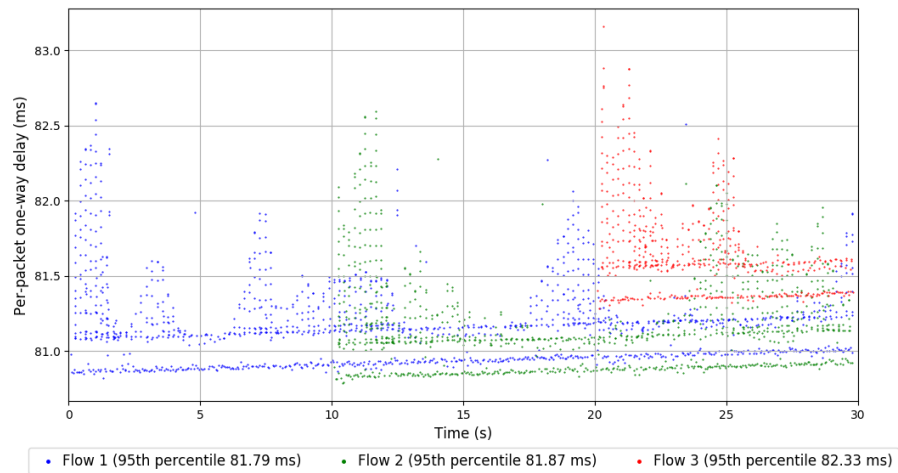
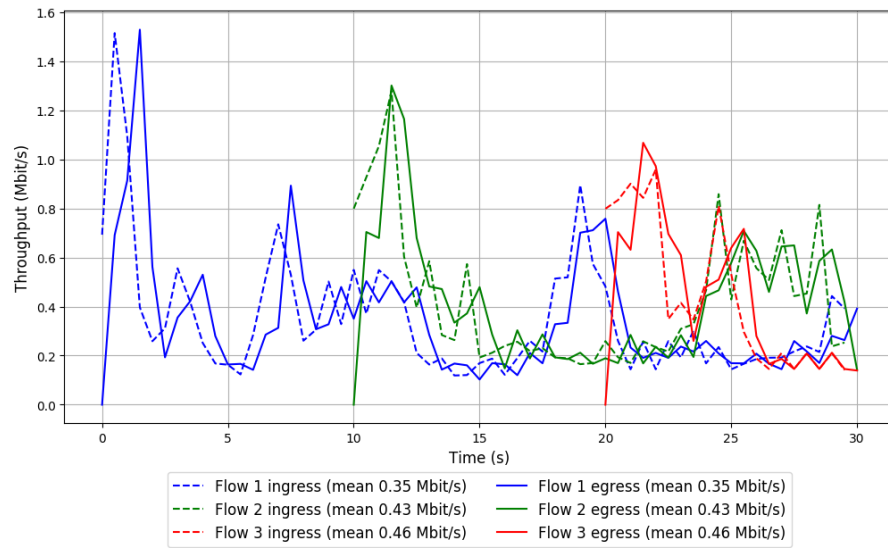


Run 1: Statistics of Sprout

Start at: 2018-05-25 12:17:31
End at: 2018-05-25 12:18:01
Local clock offset: -7.243 ms
Remote clock offset: 13.819 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 82.007 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 81.787 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.874 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 82.326 ms
Loss rate: 0.76%

Run 1: Report of Sprout — Data Link

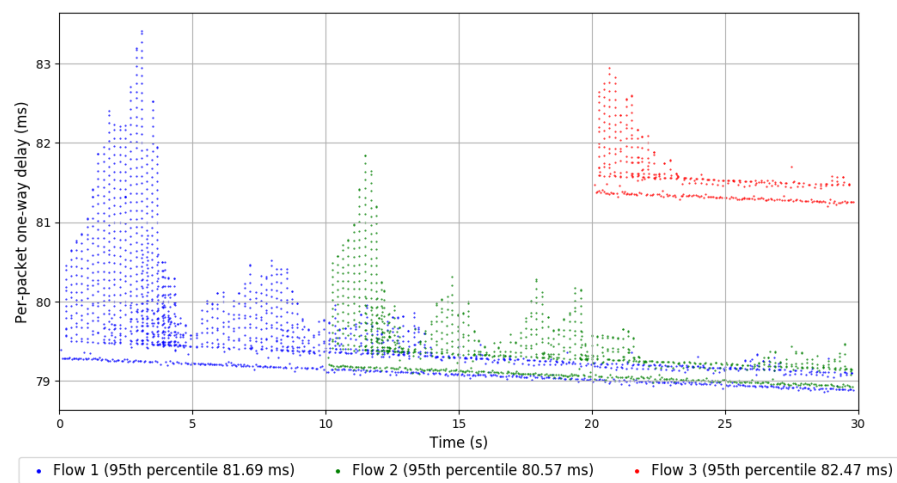
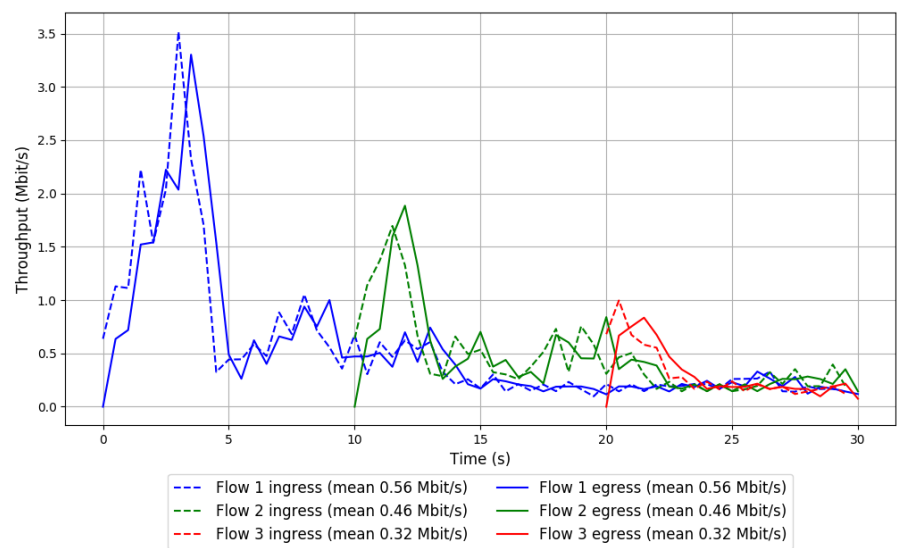


Run 2: Statistics of Sprout

Start at: 2018-05-25 12:37:10
End at: 2018-05-25 12:37:40
Local clock offset: -6.491 ms
Remote clock offset: 15.233 ms

```
# Below is generated by plot.py at 2018-05-25 15:35:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 81.803 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 81.686 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 80.568 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 82.469 ms
Loss rate: 0.74%
```

Run 2: Report of Sprout — Data Link

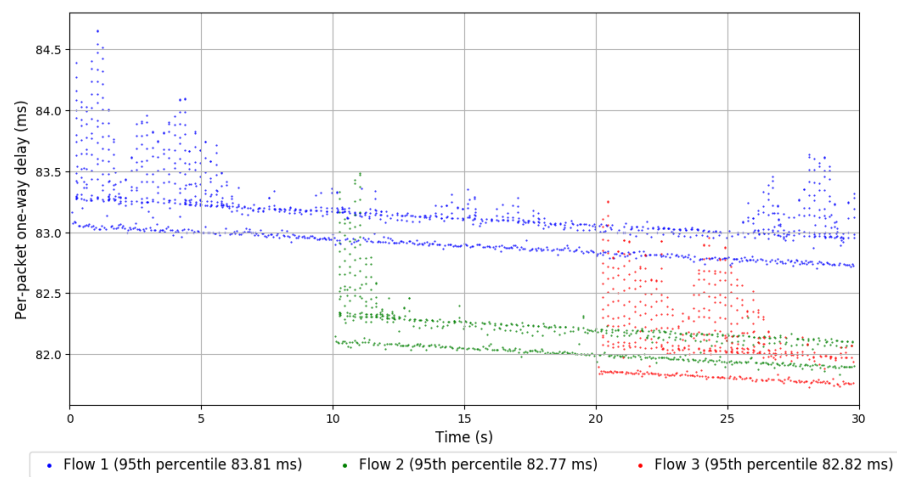
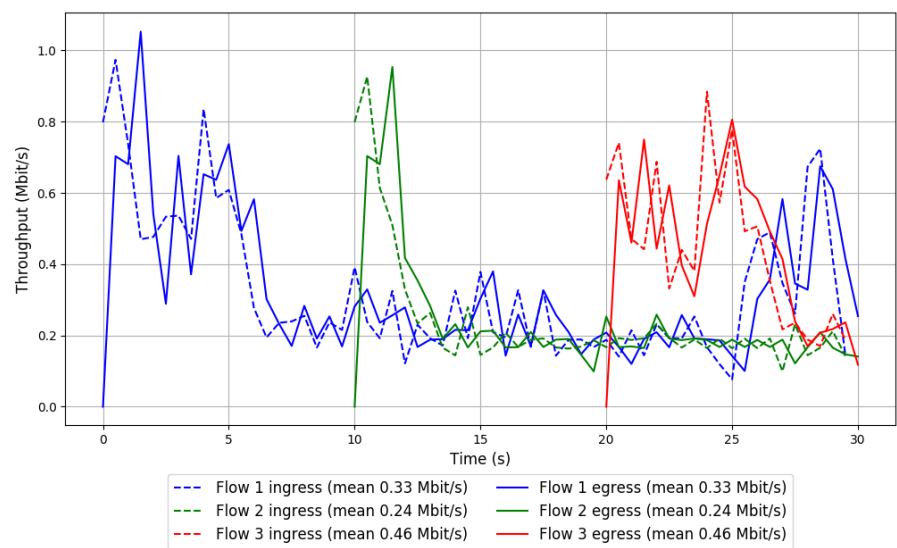


Run 3: Statistics of Sprout

Start at: 2018-05-25 12:56:49
End at: 2018-05-25 12:57:19
Local clock offset: -7.509 ms
Remote clock offset: 4.607 ms

```
# Below is generated by plot.py at 2018-05-25 15:35:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 83.586 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 83.812 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 82.765 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 82.821 ms
Loss rate: 1.06%
```

Run 3: Report of Sprout — Data Link

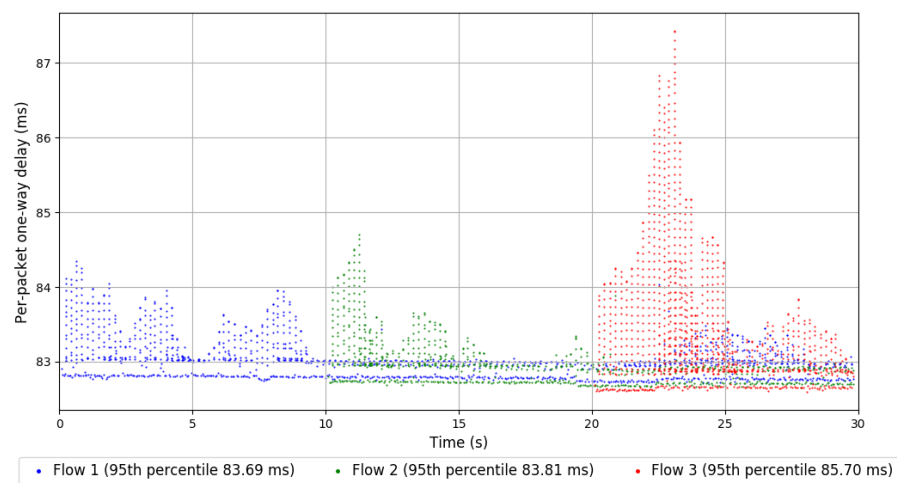
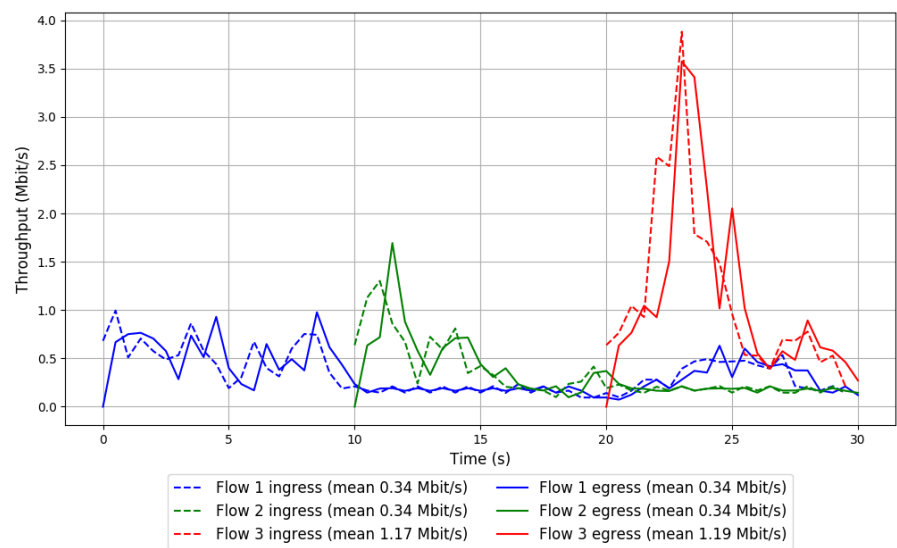


Run 4: Statistics of Sprout

Start at: 2018-05-25 13:16:28
End at: 2018-05-25 13:16:58
Local clock offset: -1.557 ms
Remote clock offset: 3.984 ms

```
# Below is generated by plot.py at 2018-05-25 15:35:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 84.542 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 83.687 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 83.805 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 85.697 ms
Loss rate: 0.23%
```

Run 4: Report of Sprout — Data Link

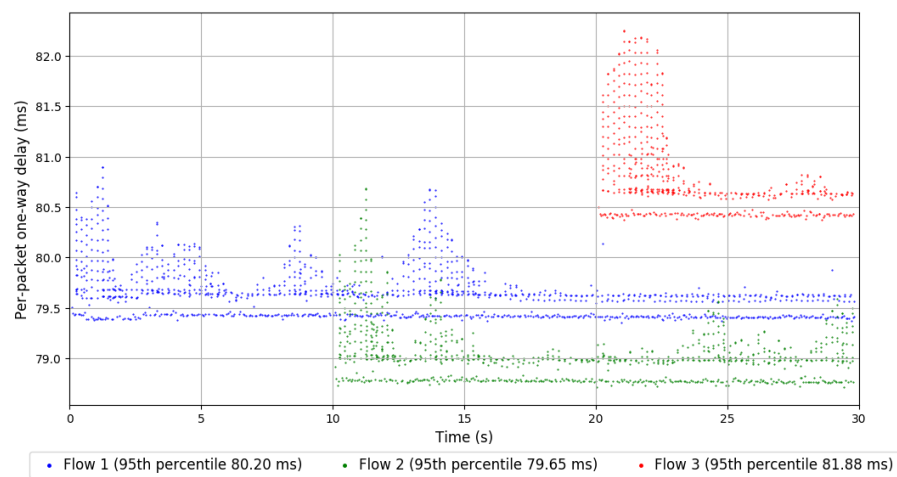
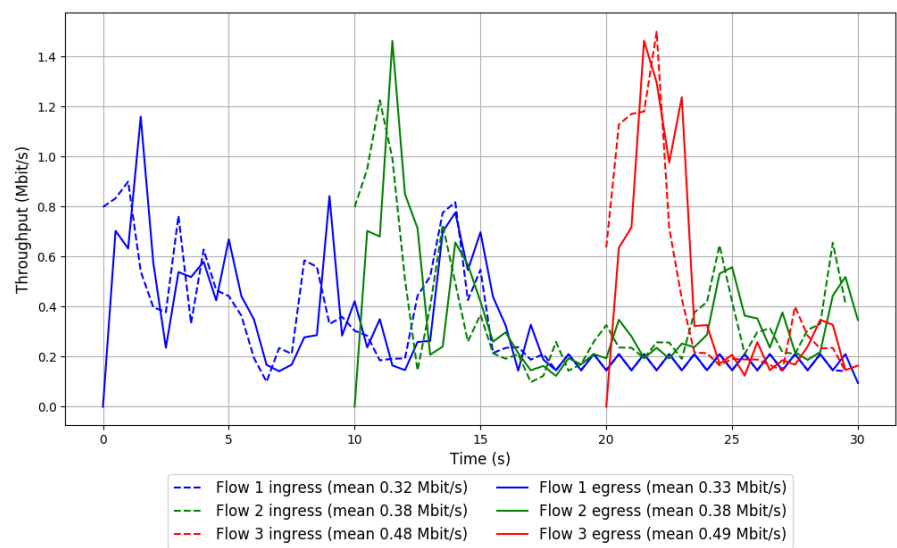


Run 5: Statistics of Sprout

Start at: 2018-05-25 13:36:07
End at: 2018-05-25 13:36:37
Local clock offset: -0.228 ms
Remote clock offset: 7.479 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 81.026 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 80.199 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 79.653 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 81.875 ms
Loss rate: 0.74%

Run 5: Report of Sprout — Data Link

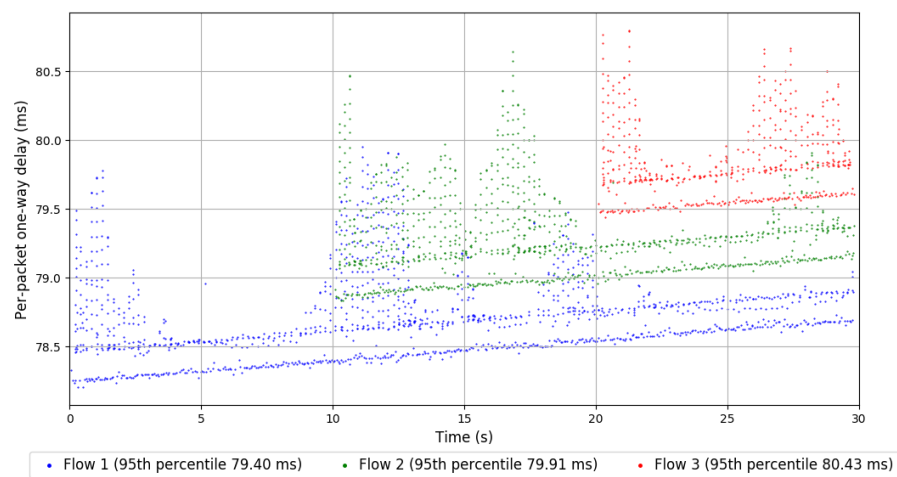
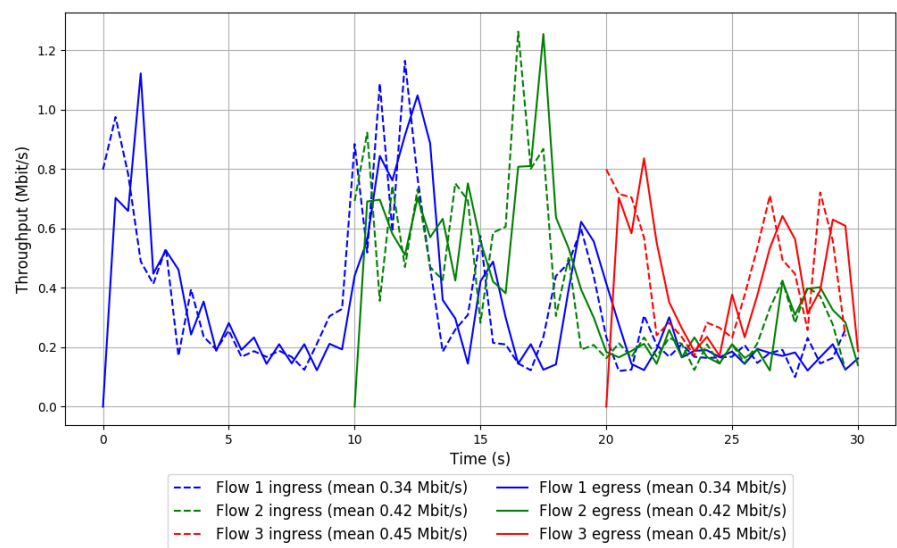


Run 6: Statistics of Sprout

Start at: 2018-05-25 13:55:46
End at: 2018-05-25 13:56:16
Local clock offset: -0.268 ms
Remote clock offset: 8.093 ms

```
# Below is generated by plot.py at 2018-05-25 15:35:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 80.053 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 79.400 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 79.906 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 80.430 ms
Loss rate: 1.06%
```

Run 6: Report of Sprout — Data Link

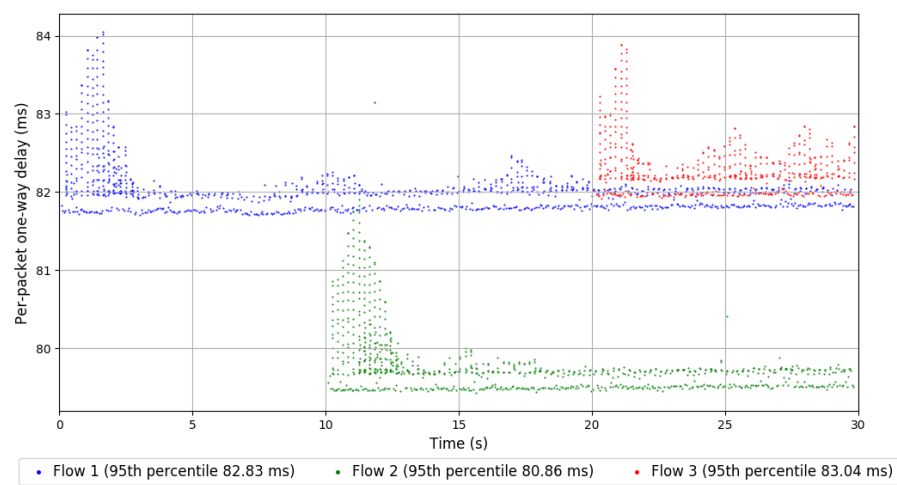
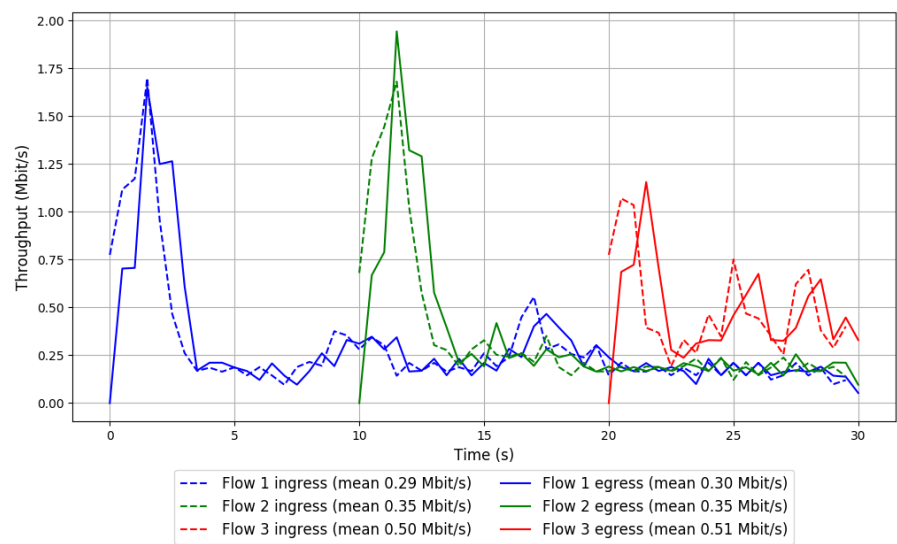


Run 7: Statistics of Sprout

Start at: 2018-05-25 14:15:25
End at: 2018-05-25 14:15:55
Local clock offset: -6.862 ms
Remote clock offset: 8.173 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 82.732 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 82.835 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 80.859 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 83.043 ms
Loss rate: 0.75%

Run 7: Report of Sprout — Data Link

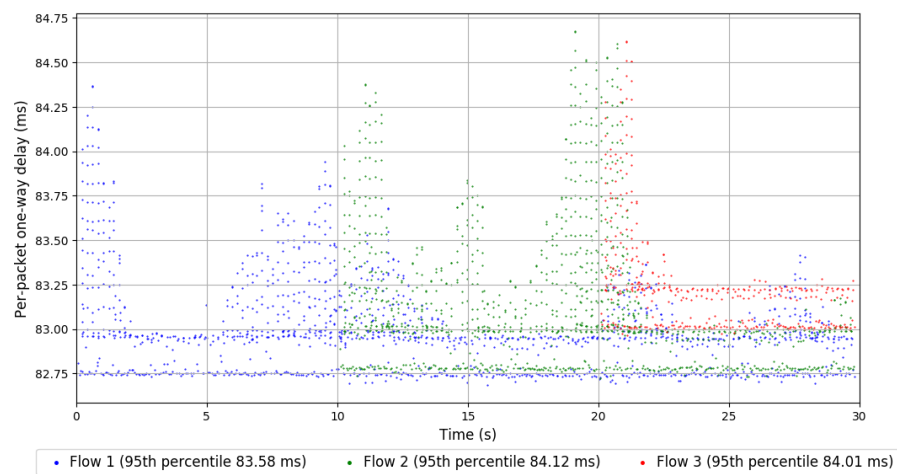
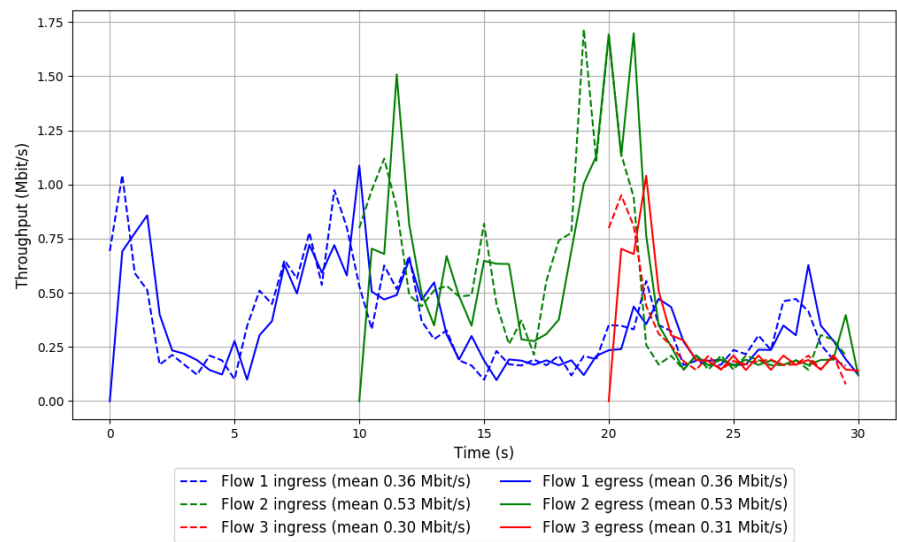


Run 8: Statistics of Sprout

Start at: 2018-05-25 14:35:03
End at: 2018-05-25 14:35:33
Local clock offset: -5.093 ms
Remote clock offset: 10.932 ms

```
# Below is generated by plot.py at 2018-05-25 15:35:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 83.904 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 83.577 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 84.118 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 84.013 ms
Loss rate: 0.08%
```

Run 8: Report of Sprout — Data Link

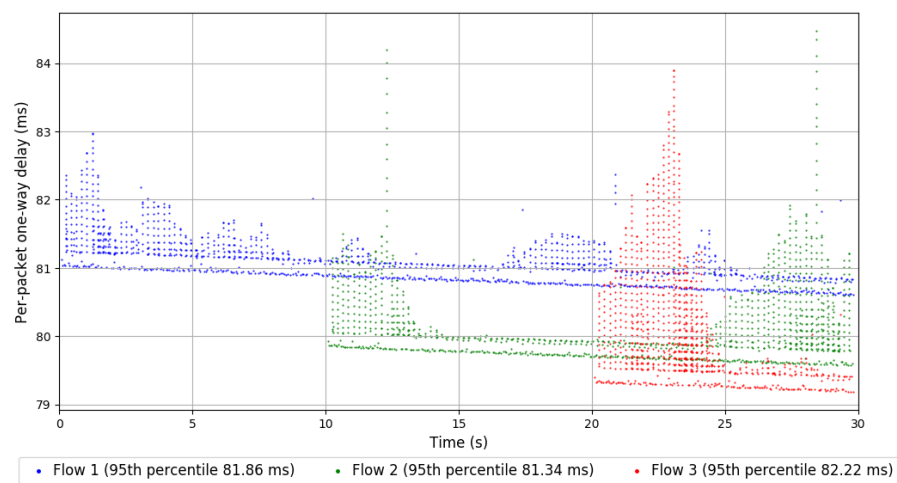
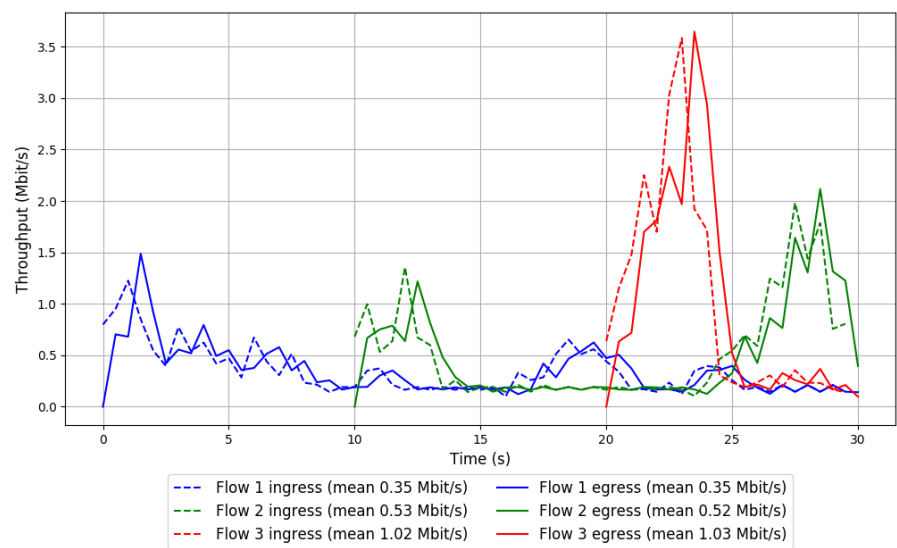


Run 9: Statistics of Sprout

Start at: 2018-05-25 14:54:41
End at: 2018-05-25 14:55:11
Local clock offset: -2.667 ms
Remote clock offset: 14.896 ms

Below is generated by plot.py at 2018-05-25 15:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 81.835 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 81.858 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 81.339 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 82.223 ms
Loss rate: 0.35%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-25 15:14:21

End at: 2018-05-25 15:14:51

Local clock offset: -2.33 ms

Remote clock offset: 3.443 ms

Below is generated by plot.py at 2018-05-25 15:35:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 87.750 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 85.157 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 88.201 ms

Loss rate: 2.01%

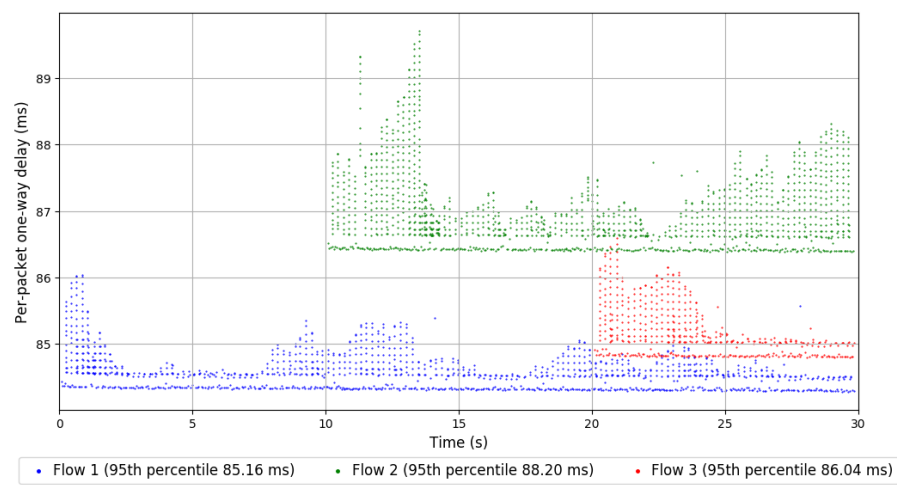
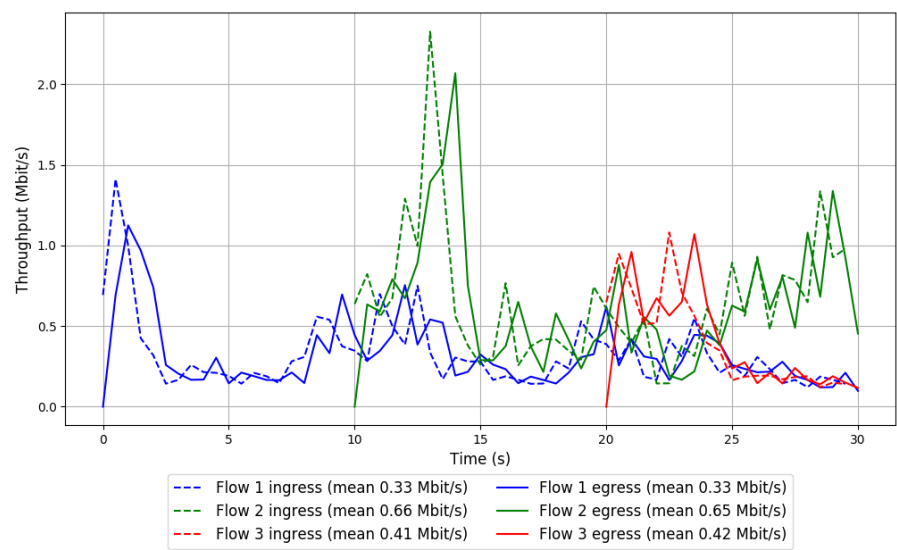
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 86.038 ms

Loss rate: 0.33%

Run 10: Report of Sprout — Data Link

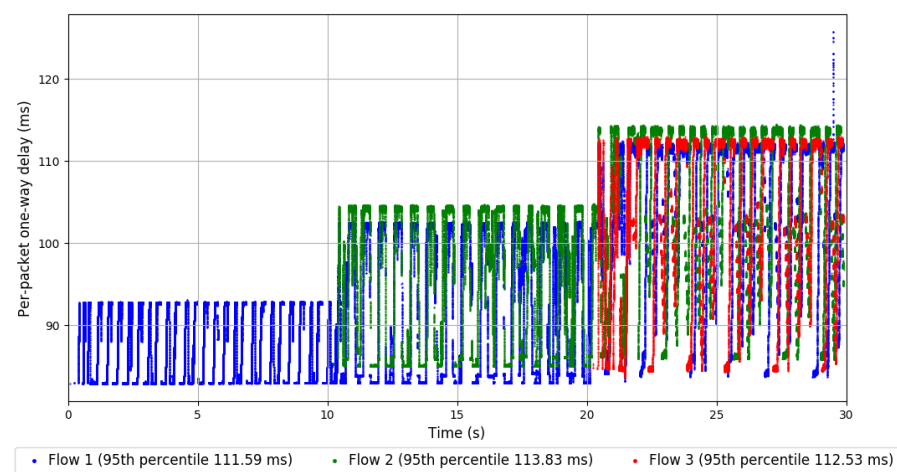
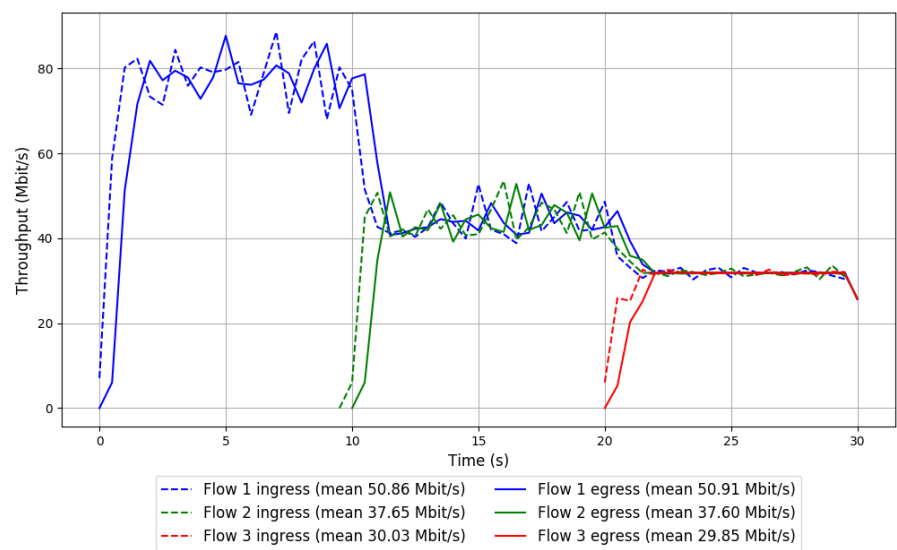


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 12:23:38
End at: 2018-05-25 12:24:08
Local clock offset: -7.701 ms
Remote clock offset: 11.2 ms

# Below is generated by plot.py at 2018-05-25 15:36:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 113.149 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 50.91 Mbit/s
95th percentile per-packet one-way delay: 111.589 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 113.835 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 112.525 ms
Loss rate: 2.23%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 12:43:17

End at: 2018-05-25 12:43:47

Local clock offset: -7.302 ms

Remote clock offset: 6.737 ms

Below is generated by plot.py at 2018-05-25 15:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 114.015 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 50.93 Mbit/s

95th percentile per-packet one-way delay: 112.438 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 37.18 Mbit/s

95th percentile per-packet one-way delay: 113.854 ms

Loss rate: 0.65%

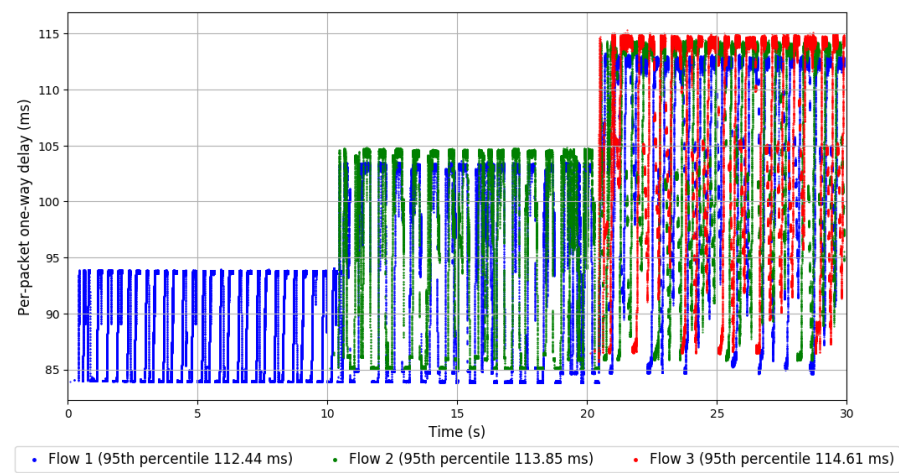
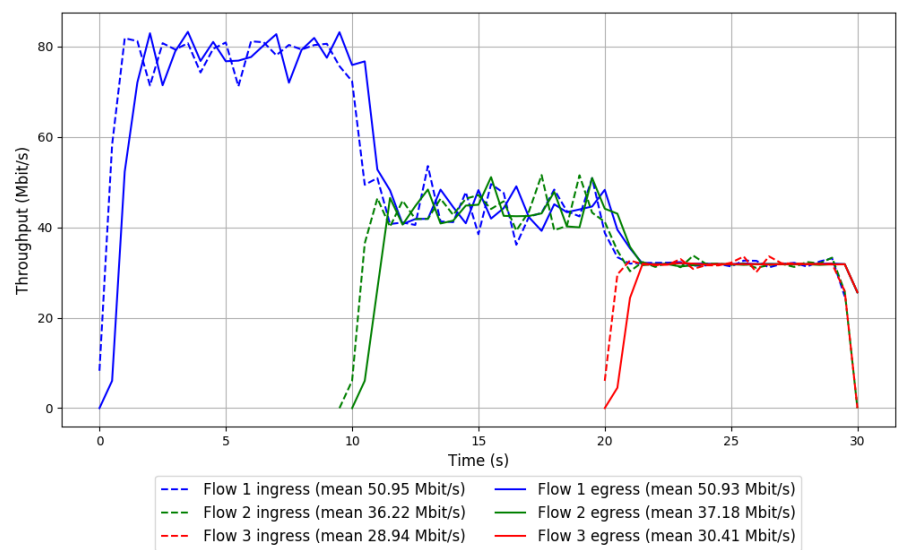
-- Flow 3:

Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 114.605 ms

Loss rate: 1.52%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 13:02:55

End at: 2018-05-25 13:03:25

Local clock offset: -4.077 ms

Remote clock offset: 4.088 ms

Below is generated by plot.py at 2018-05-25 15:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 111.736 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 111.087 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 111.464 ms

Loss rate: 0.96%

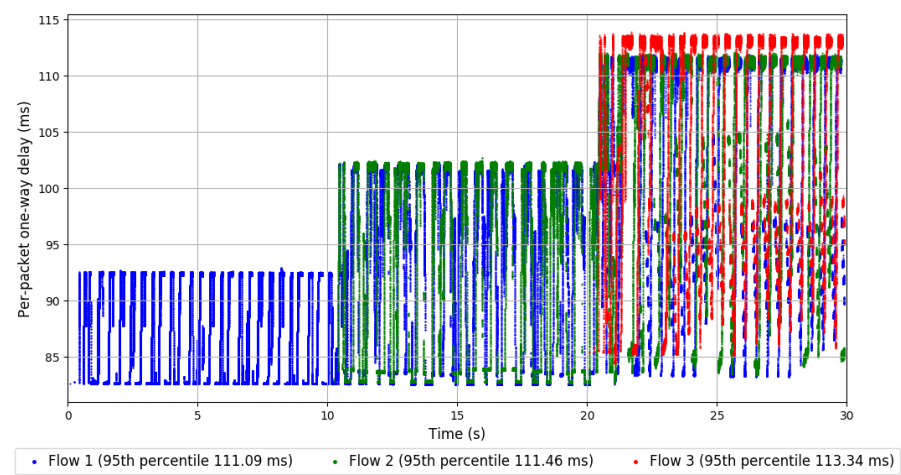
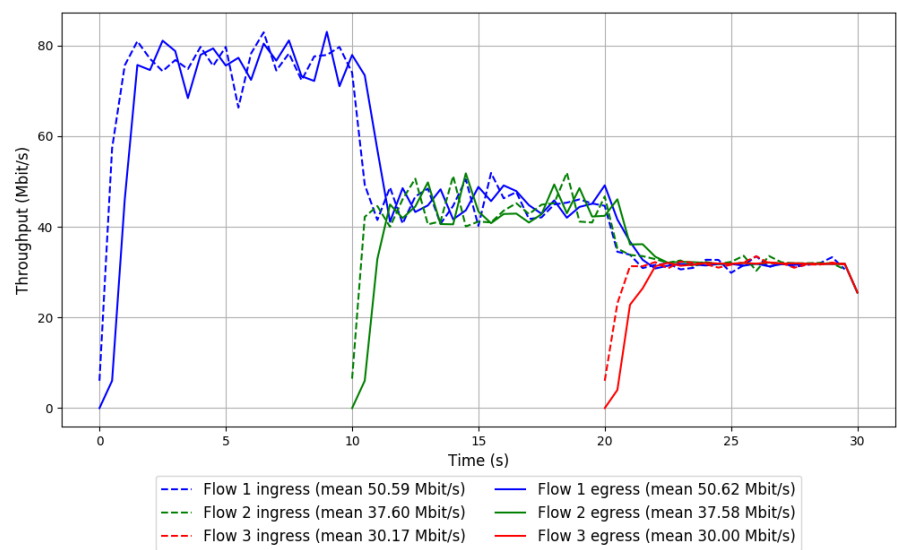
-- Flow 3:

Average throughput: 30.00 Mbit/s

95th percentile per-packet one-way delay: 113.343 ms

Loss rate: 2.20%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 13:22:34

End at: 2018-05-25 13:23:04

Local clock offset: -1.011 ms

Remote clock offset: 3.752 ms

Below is generated by plot.py at 2018-05-25 15:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 112.269 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 49.66 Mbit/s

95th percentile per-packet one-way delay: 113.598 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 111.856 ms

Loss rate: 0.81%

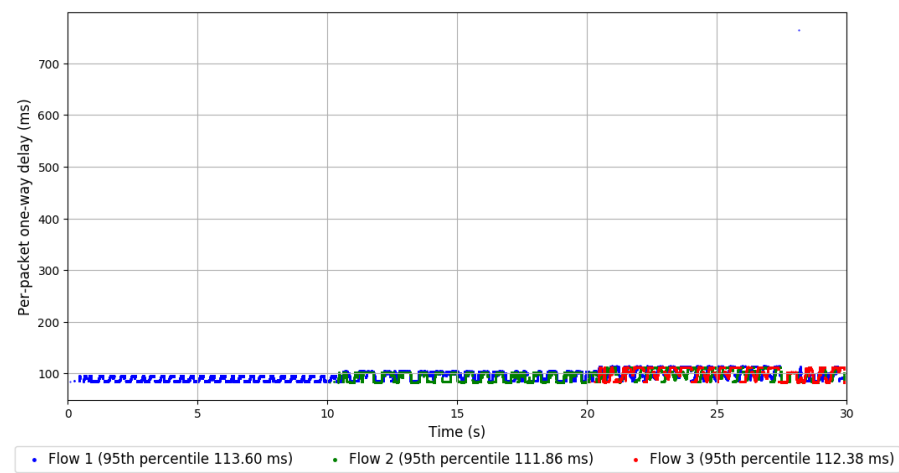
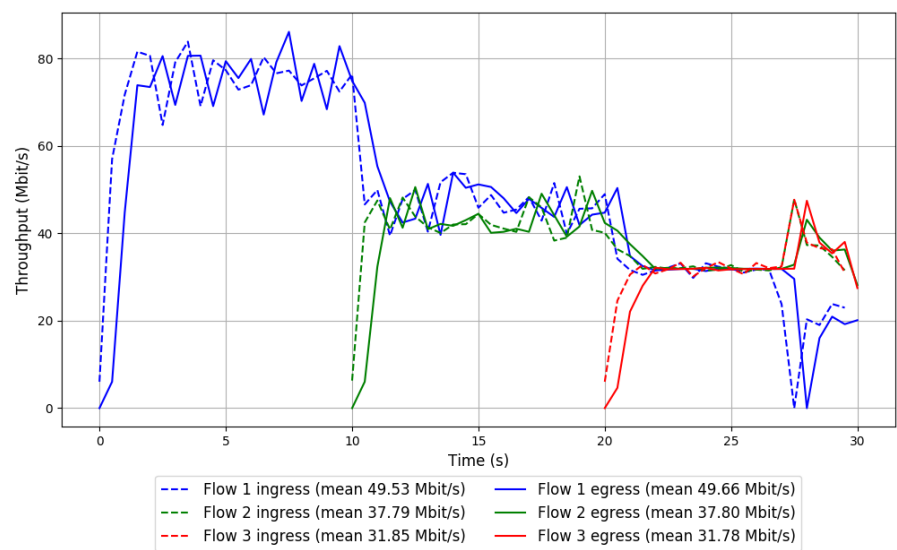
-- Flow 3:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 112.379 ms

Loss rate: 1.87%

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



Run 5: Statistics of TaoVA-100x

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

End at: 2018-05-25 13:42:43

Local clock offset: 0.93 ms

Remote clock offset: 7.369 ms

Below is generated by plot.py at 2018-05-25 15:37:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 109.556 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 50.84 Mbit/s

95th percentile per-packet one-way delay: 110.039 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 108.157 ms

Loss rate: 1.00%

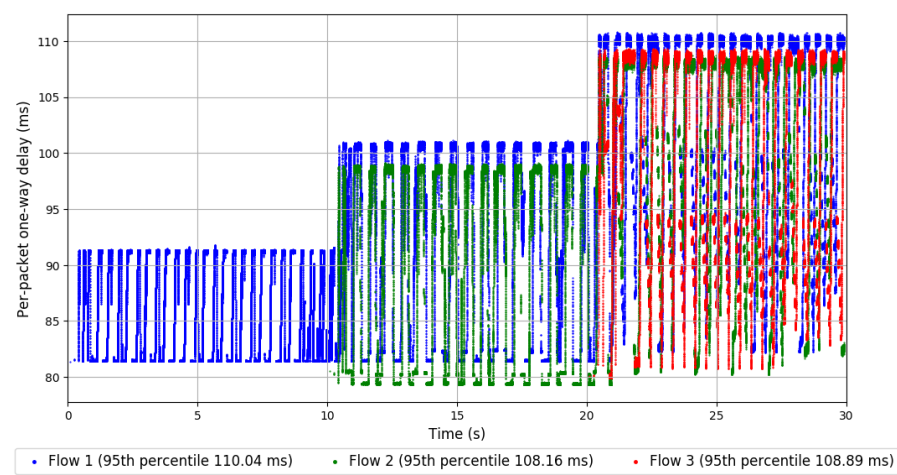
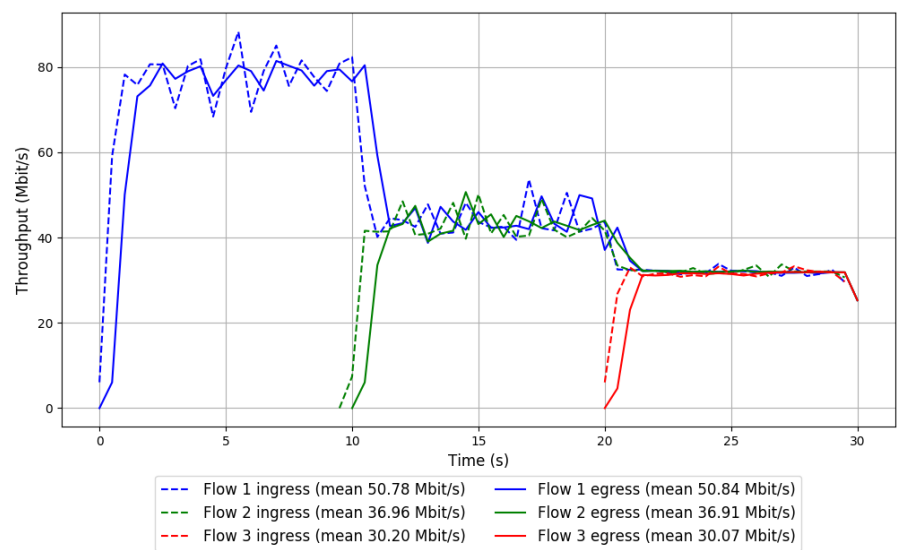
-- Flow 3:

Average throughput: 30.07 Mbit/s

95th percentile per-packet one-way delay: 108.894 ms

Loss rate: 2.05%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 14:01:52

End at: 2018-05-25 14:02:22

Local clock offset: -4.407 ms

Remote clock offset: 9.015 ms

Below is generated by plot.py at 2018-05-25 15:37:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 108.354 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 50.75 Mbit/s

95th percentile per-packet one-way delay: 107.224 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 108.828 ms

Loss rate: 0.98%

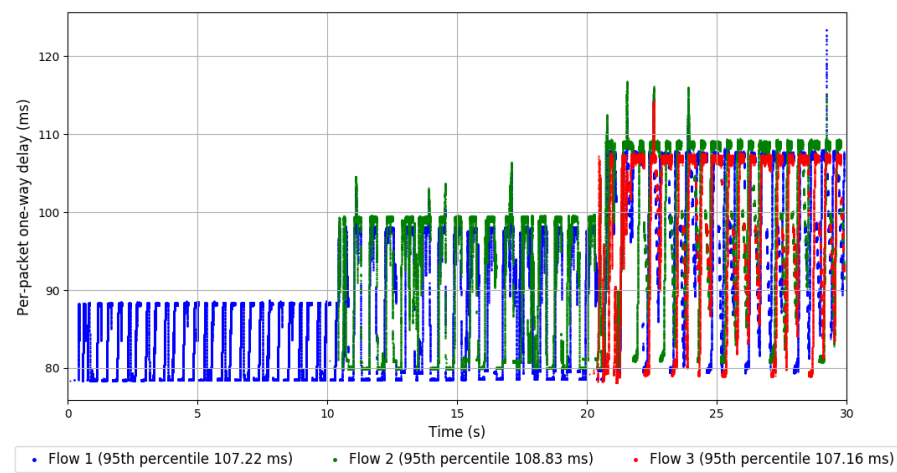
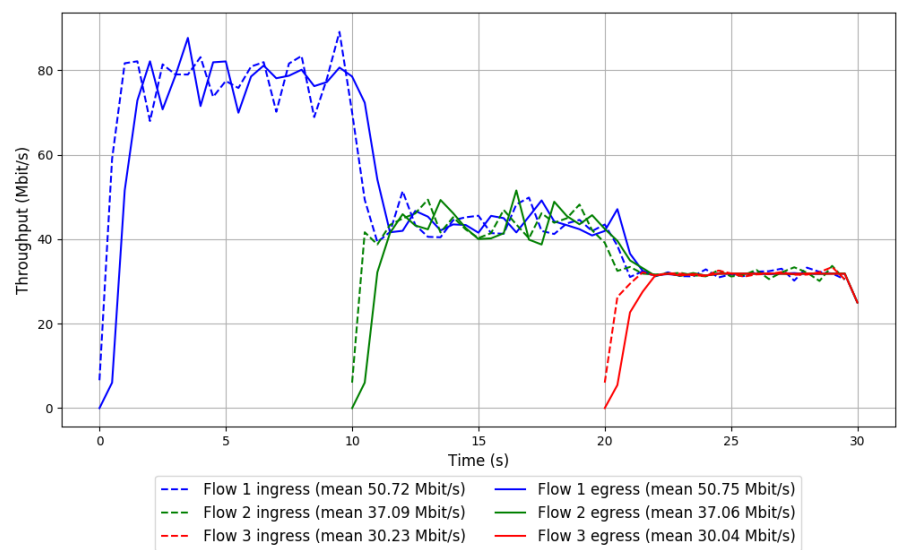
-- Flow 3:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 107.159 ms

Loss rate: 2.26%

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

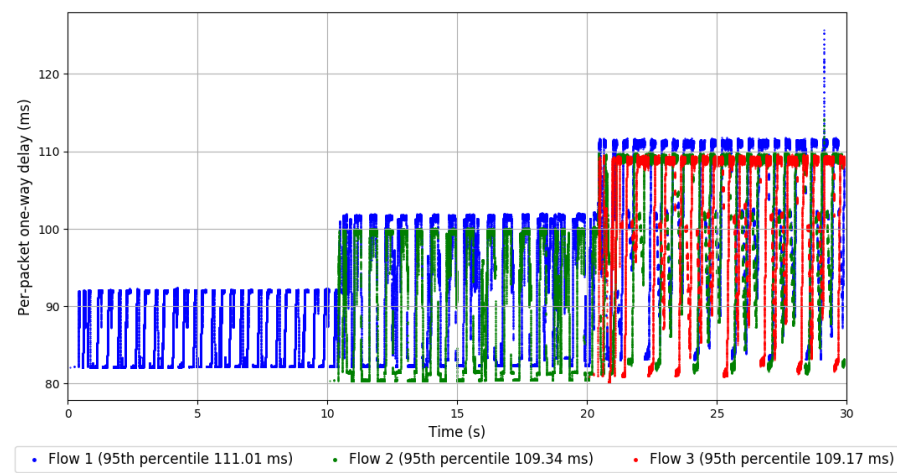
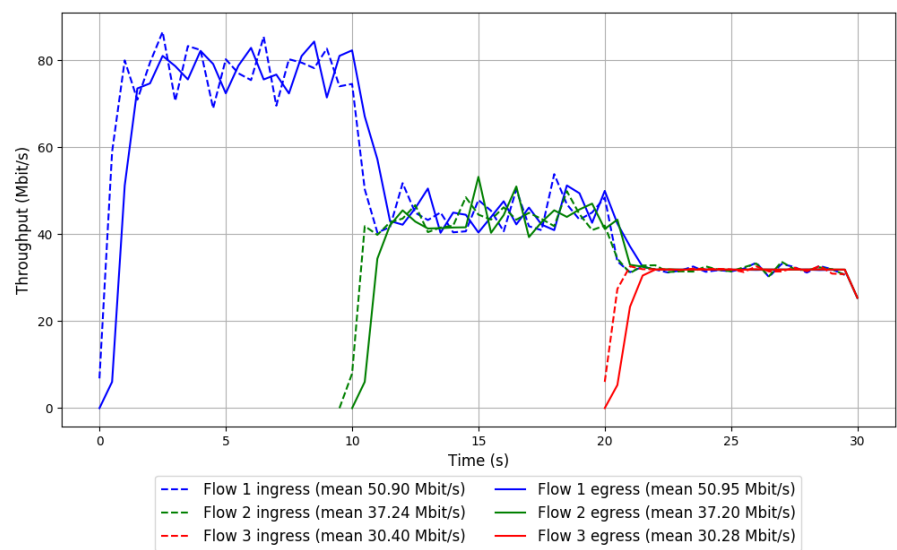


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 14:21:31
End at: 2018-05-25 14:22:01
Local clock offset: -7.839 ms
Remote clock offset: 10.463 ms

Below is generated by plot.py at 2018-05-25 15:37:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 110.652 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 50.95 Mbit/s
95th percentile per-packet one-way delay: 111.012 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 37.20 Mbit/s
95th percentile per-packet one-way delay: 109.342 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 109.165 ms
Loss rate: 2.02%

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

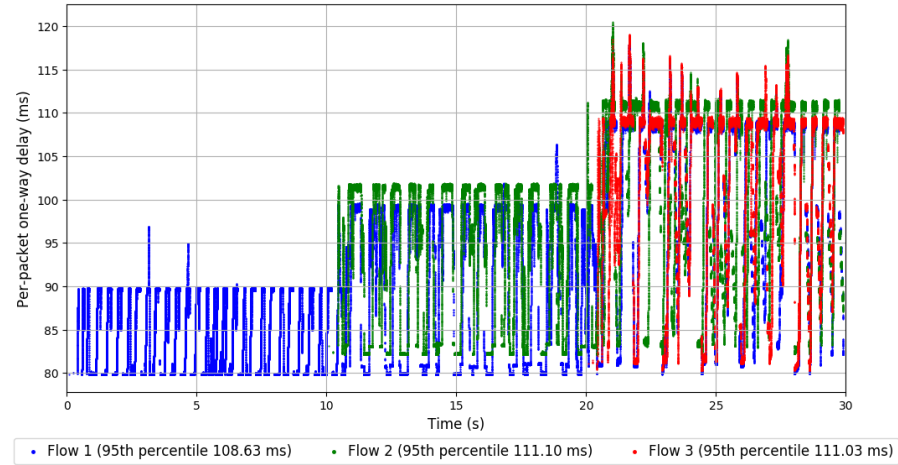
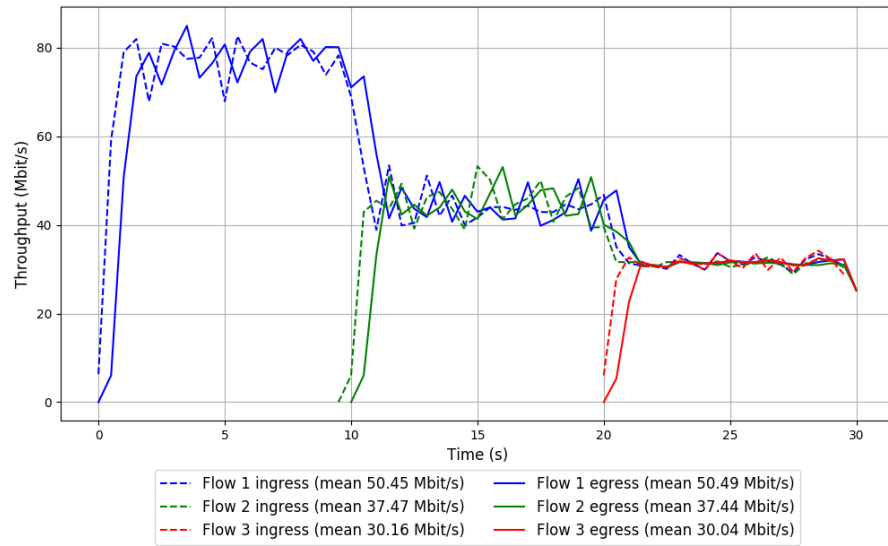


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 14:41:09
End at: 2018-05-25 14:41:39
Local clock offset: -3.363 ms
Remote clock offset: 15.827 ms

Below is generated by plot.py at 2018-05-25 15:37:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 110.793 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 50.49 Mbit/s
95th percentile per-packet one-way delay: 108.631 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 111.096 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 111.032 ms
Loss rate: 2.02%

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

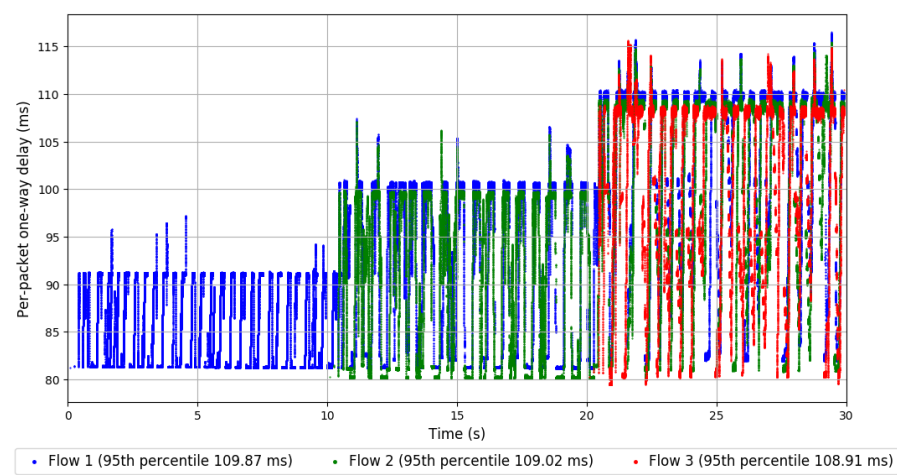
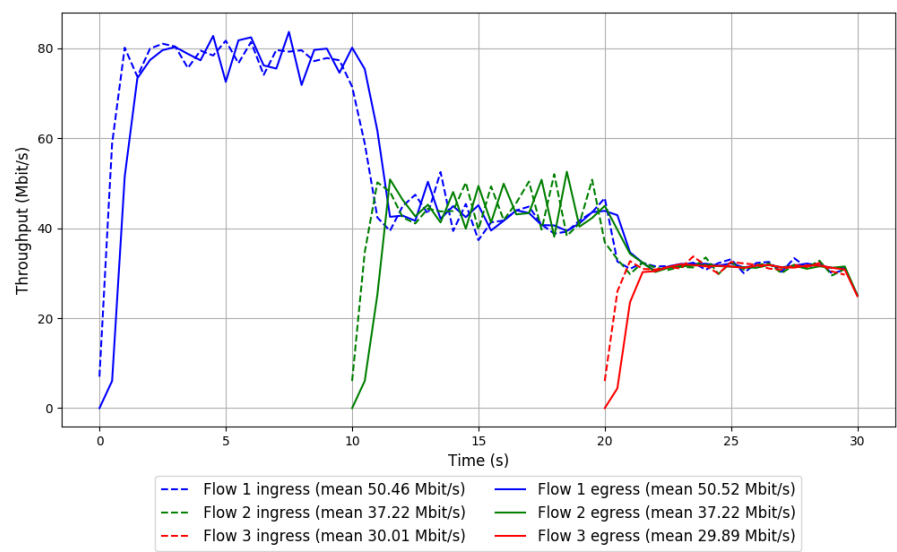


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 15:00:48
End at: 2018-05-25 15:01:18
Local clock offset: -2.5 ms
Remote clock offset: 11.139 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 109.750 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 109.870 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 37.22 Mbit/s
95th percentile per-packet one-way delay: 109.020 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 108.912 ms
Loss rate: 2.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 15:20:27

End at: 2018-05-25 15:20:57

Local clock offset: -2.284 ms

Remote clock offset: 3.751 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.99 Mbit/s

95th percentile per-packet one-way delay: 113.677 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 112.875 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 112.686 ms

Loss rate: 0.84%

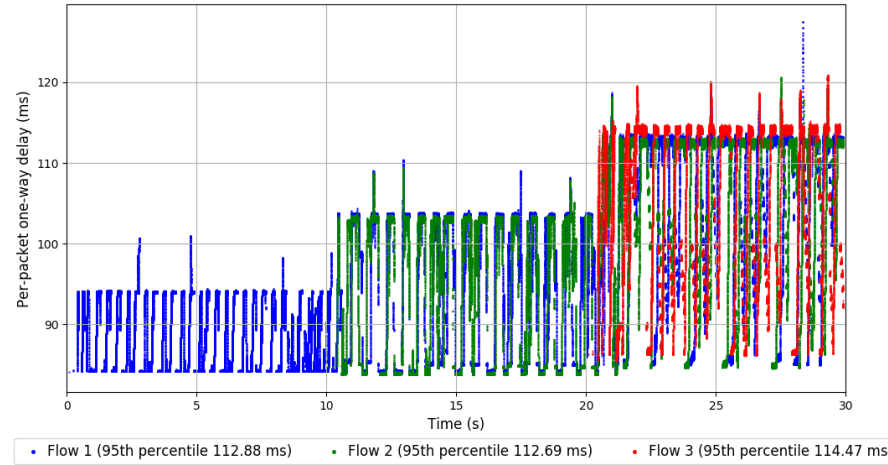
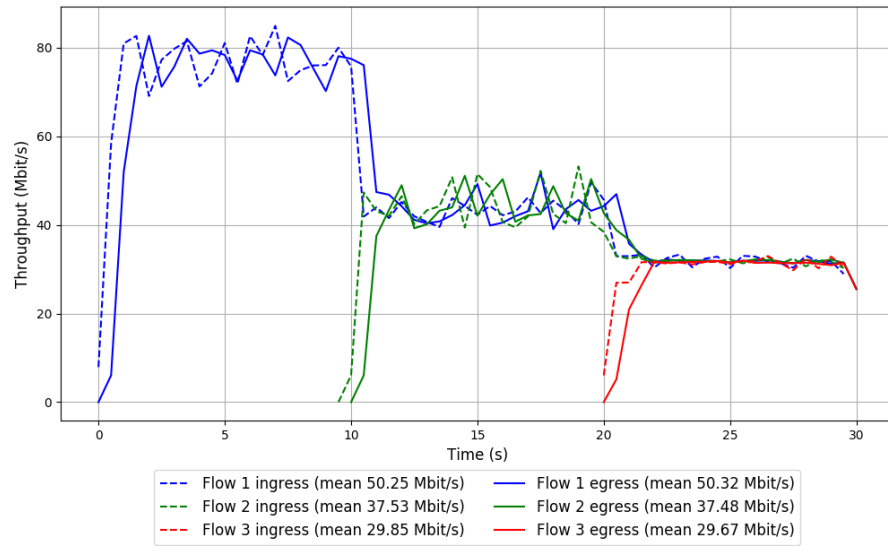
-- Flow 3:

Average throughput: 29.67 Mbit/s

95th percentile per-packet one-way delay: 114.471 ms

Loss rate: 2.25%

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

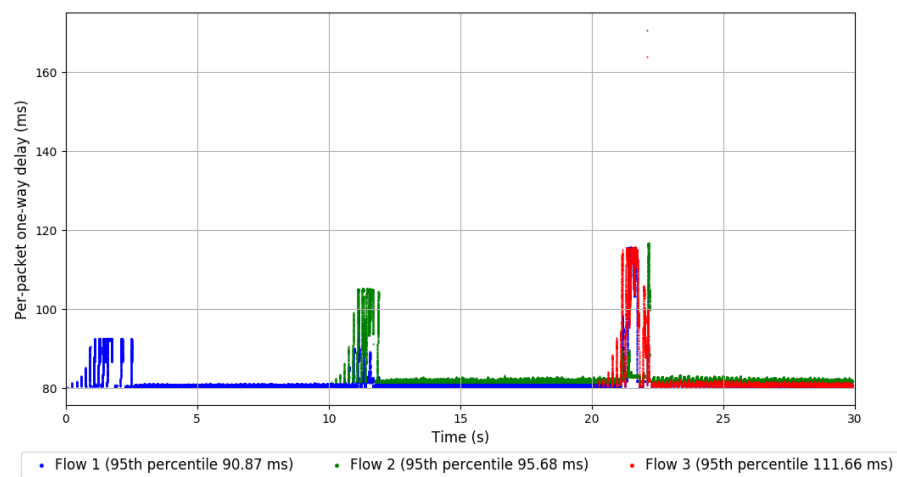
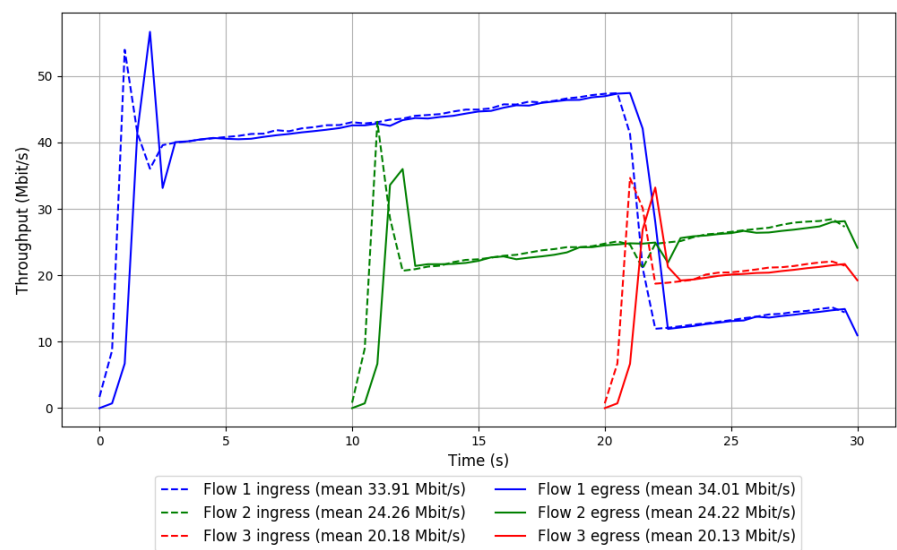


Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 12:21:10
End at: 2018-05-25 12:21:40
Local clock offset: -6.813 ms
Remote clock offset: 14.572 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 92.335 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 90.873 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 95.677 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 20.13 Mbit/s
95th percentile per-packet one-way delay: 111.656 ms
Loss rate: 1.87%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 12:40:49

End at: 2018-05-25 12:41:19

Local clock offset: -8.102 ms

Remote clock offset: 11.77 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 90.363 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 89.271 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 23.35 Mbit/s

95th percentile per-packet one-way delay: 92.184 ms

Loss rate: 0.98%

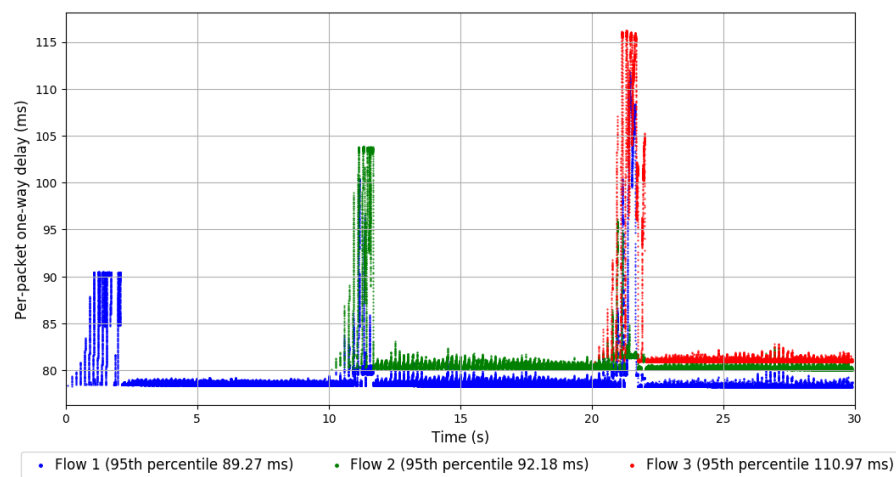
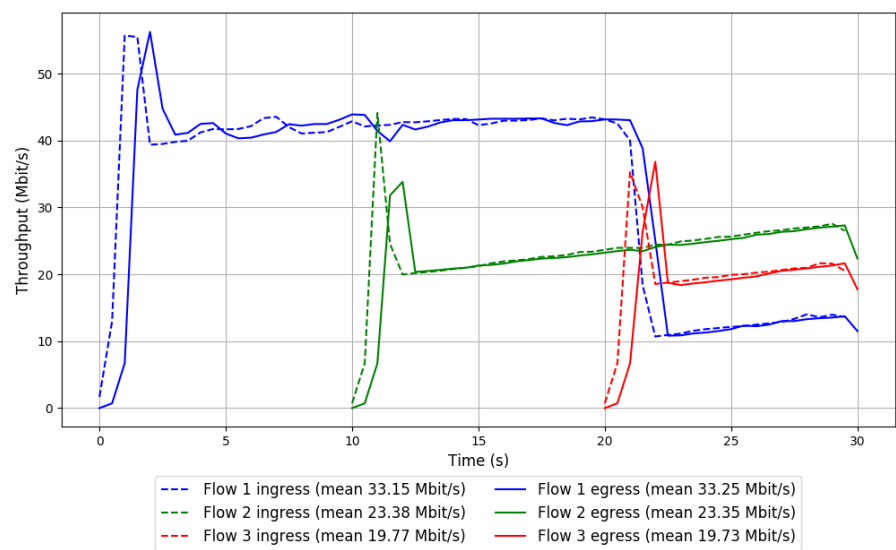
-- Flow 3:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 110.970 ms

Loss rate: 1.88%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 13:00:28

End at: 2018-05-25 13:00:58

Local clock offset: -4.917 ms

Remote clock offset: 7.922 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.71 Mbit/s

95th percentile per-packet one-way delay: 93.137 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 92.964 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 91.326 ms

Loss rate: 0.96%

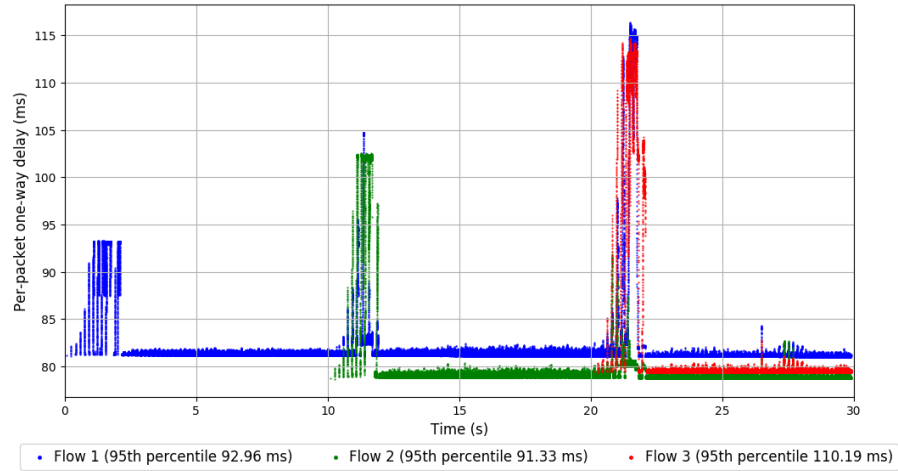
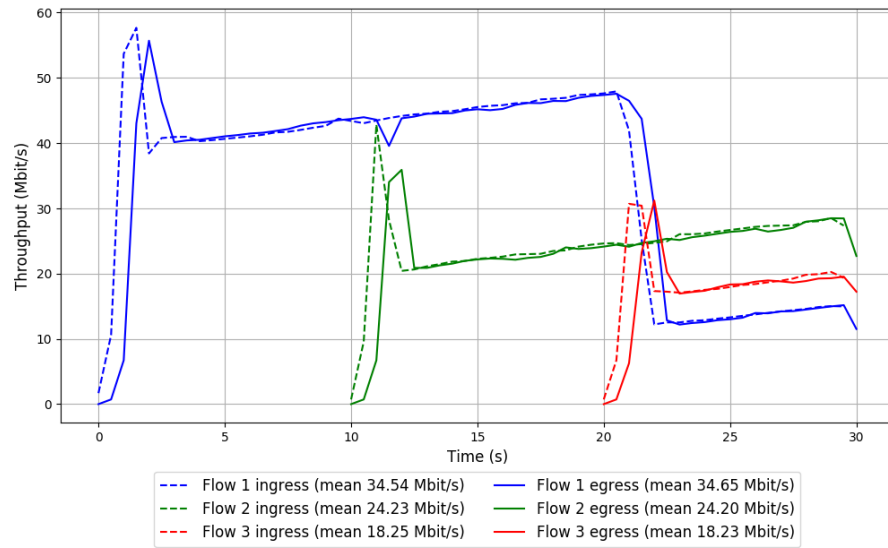
-- Flow 3:

Average throughput: 18.23 Mbit/s

95th percentile per-packet one-way delay: 110.194 ms

Loss rate: 1.74%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 13:20:07

End at: 2018-05-25 13:20:37

Local clock offset: -1.218 ms

Remote clock offset: 3.828 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 94.715 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 92.005 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 29.90 Mbit/s

95th percentile per-packet one-way delay: 98.176 ms

Loss rate: 0.66%

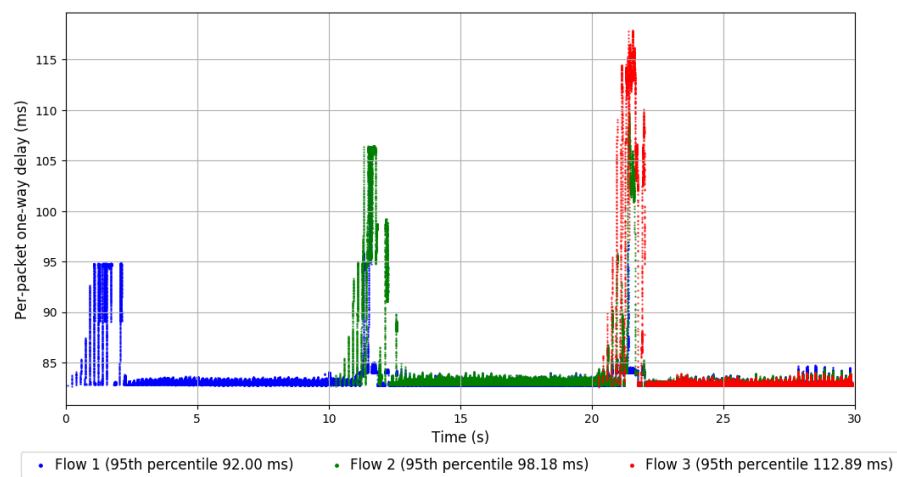
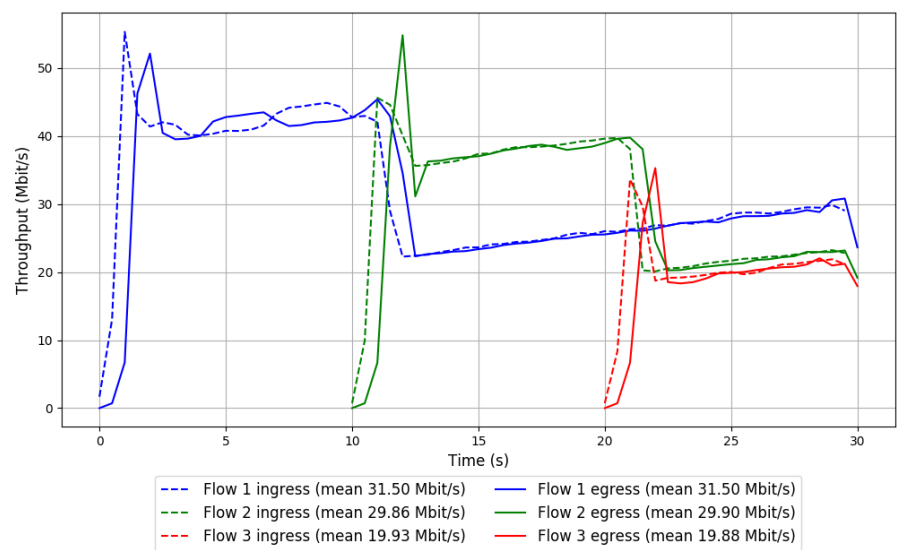
-- Flow 3:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 112.887 ms

Loss rate: 1.85%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 13:39:45

End at: 2018-05-25 13:40:15

Local clock offset: -0.738 ms

Remote clock offset: 6.516 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 90.583 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 88.092 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 92.402 ms

Loss rate: 0.95%

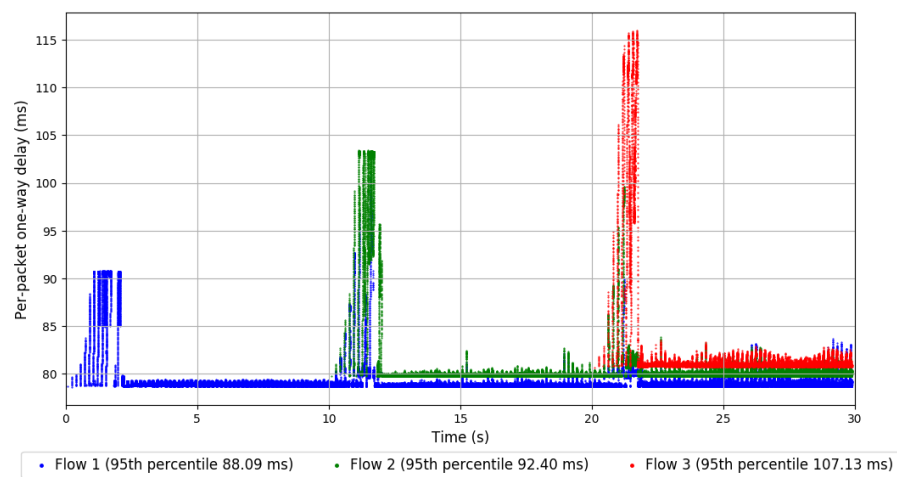
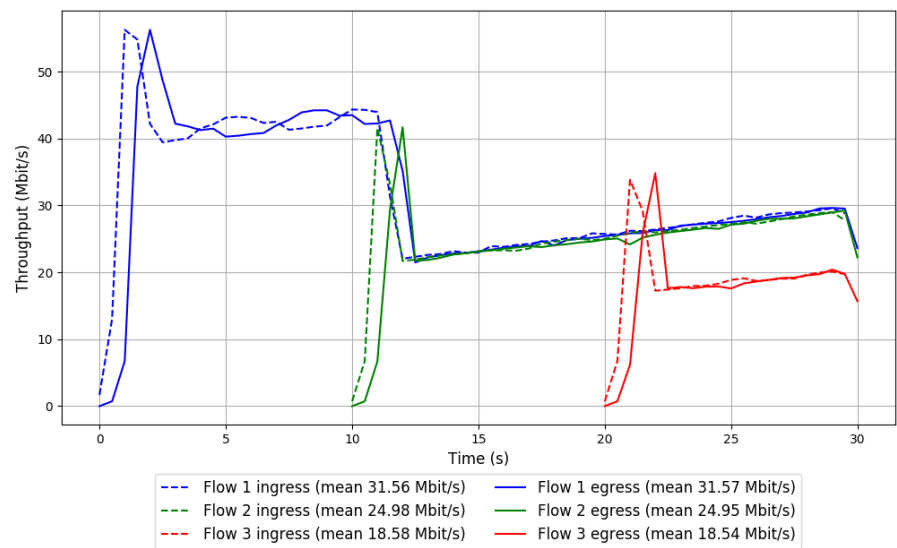
-- Flow 3:

Average throughput: 18.54 Mbit/s

95th percentile per-packet one-way delay: 107.132 ms

Loss rate: 1.85%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

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

End at: 2018-05-25 13:59:55

Local clock offset: -3.073 ms

Remote clock offset: 8.212 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.84 Mbit/s

95th percentile per-packet one-way delay: 90.487 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 87.883 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 27.55 Mbit/s

95th percentile per-packet one-way delay: 94.574 ms

Loss rate: 0.66%

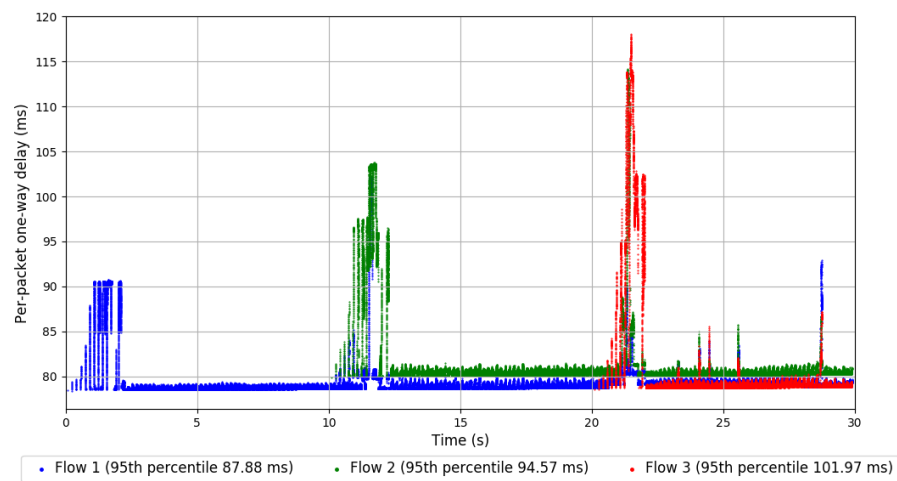
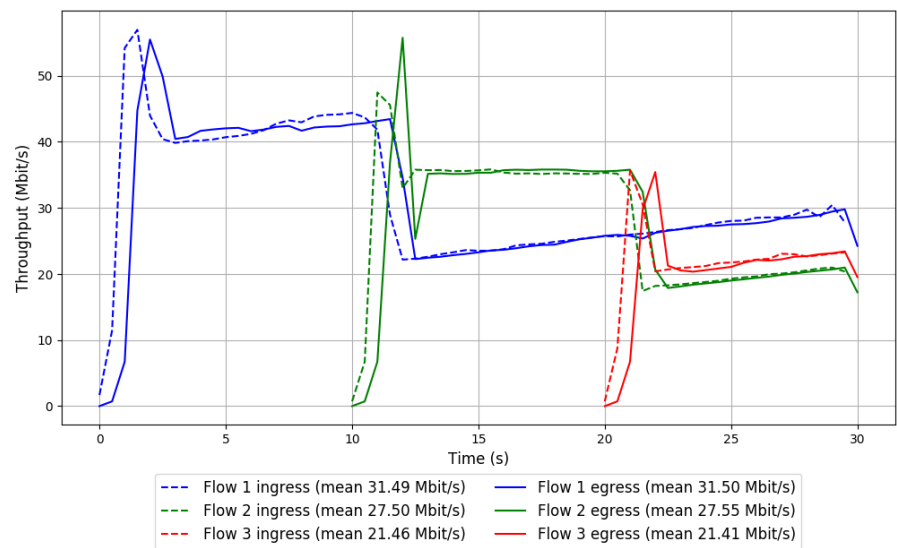
-- Flow 3:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 101.965 ms

Loss rate: 1.85%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 14:19:03

End at: 2018-05-25 14:19:33

Local clock offset: -8.242 ms

Remote clock offset: 9.968 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 90.841 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 34.01 Mbit/s

95th percentile per-packet one-way delay: 88.668 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 88.971 ms

Loss rate: 0.97%

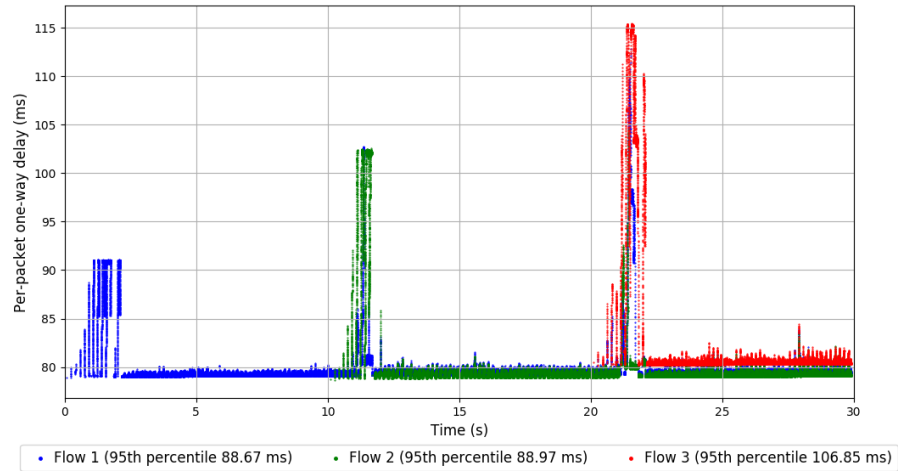
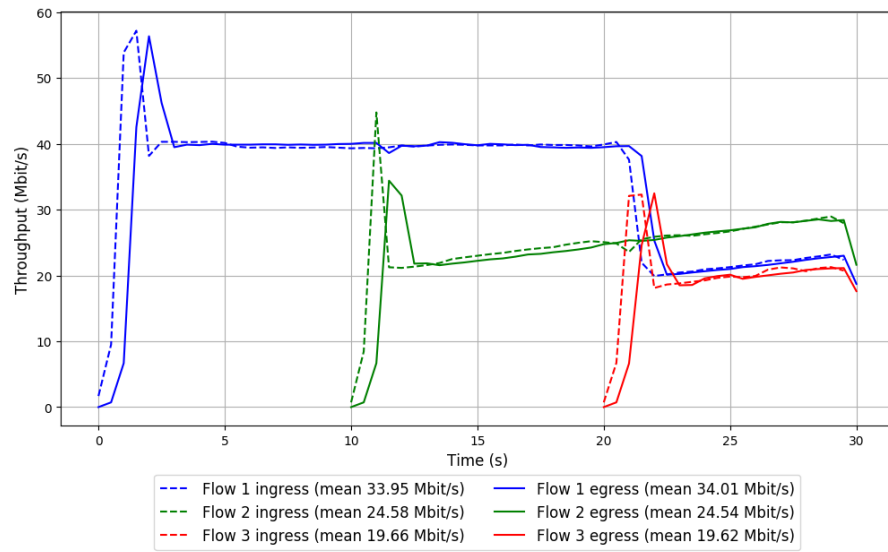
-- Flow 3:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 106.854 ms

Loss rate: 1.86%

Run 7: Report of TCP Vegas — Data Link

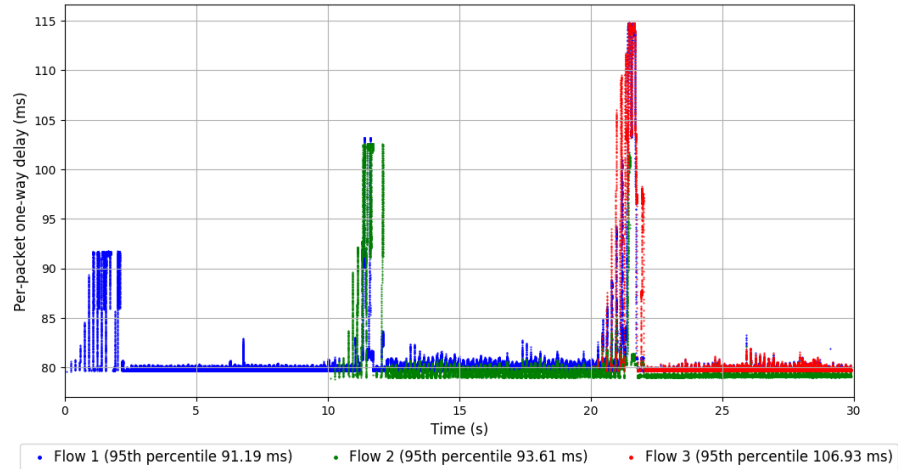
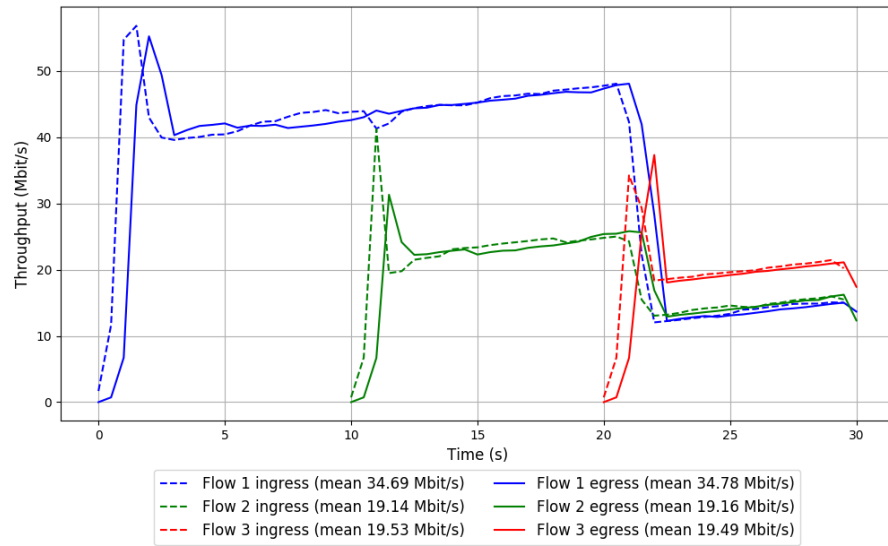


Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 14:38:42
End at: 2018-05-25 14:39:12
Local clock offset: -4.439 ms
Remote clock offset: 15.549 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 91.591 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 91.190 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 19.16 Mbit/s
95th percentile per-packet one-way delay: 93.612 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 19.49 Mbit/s
95th percentile per-packet one-way delay: 106.928 ms
Loss rate: 1.83%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 14:58:20

End at: 2018-05-25 14:58:50

Local clock offset: -3.322 ms

Remote clock offset: 8.533 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 92.102 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 36.29 Mbit/s

95th percentile per-packet one-way delay: 90.330 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 26.34 Mbit/s

95th percentile per-packet one-way delay: 95.919 ms

Loss rate: 0.97%

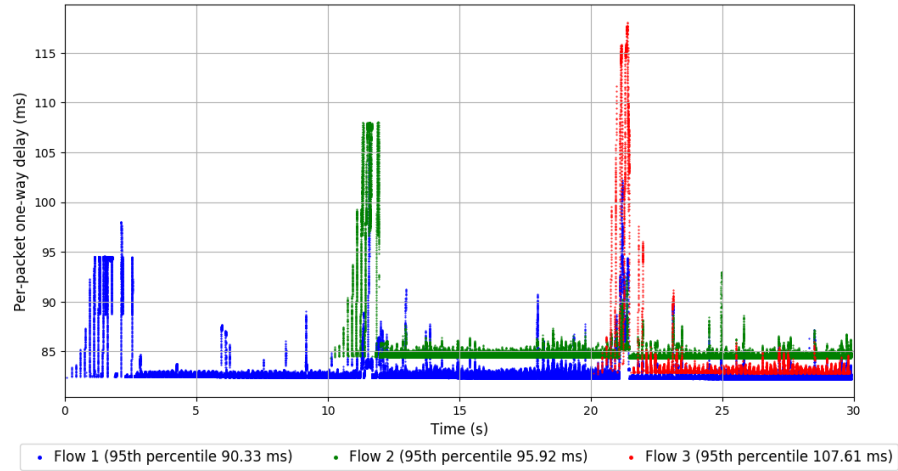
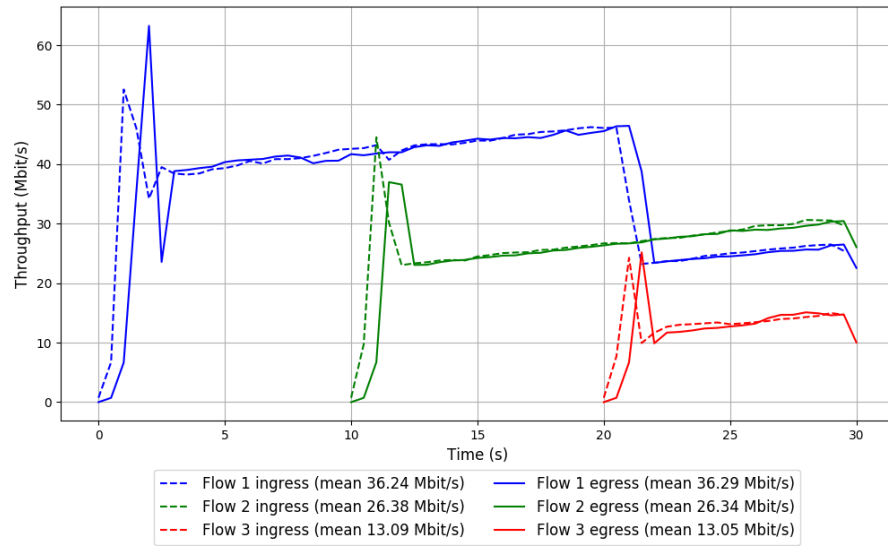
-- Flow 3:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 107.609 ms

Loss rate: 1.95%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 15:17:59

End at: 2018-05-25 15:18:29

Local clock offset: -3.068 ms

Remote clock offset: 7.643 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.38 Mbit/s

95th percentile per-packet one-way delay: 90.667 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: 89.053 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 25.96 Mbit/s

95th percentile per-packet one-way delay: 92.706 ms

Loss rate: 0.98%

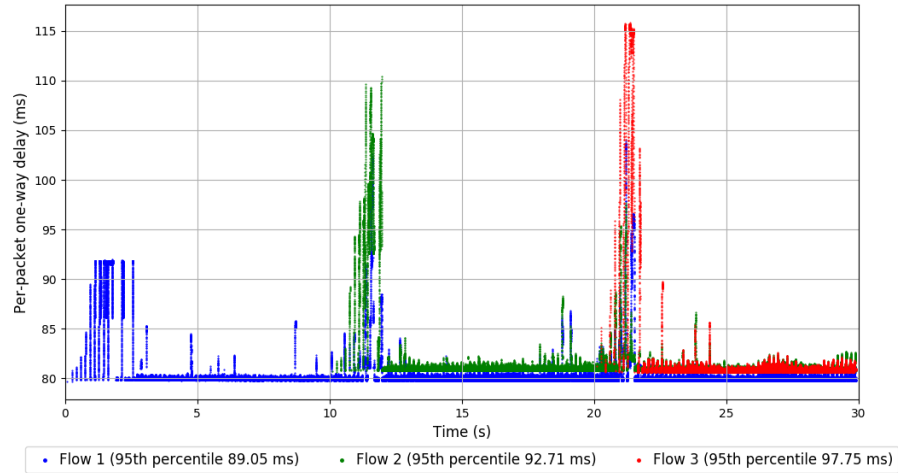
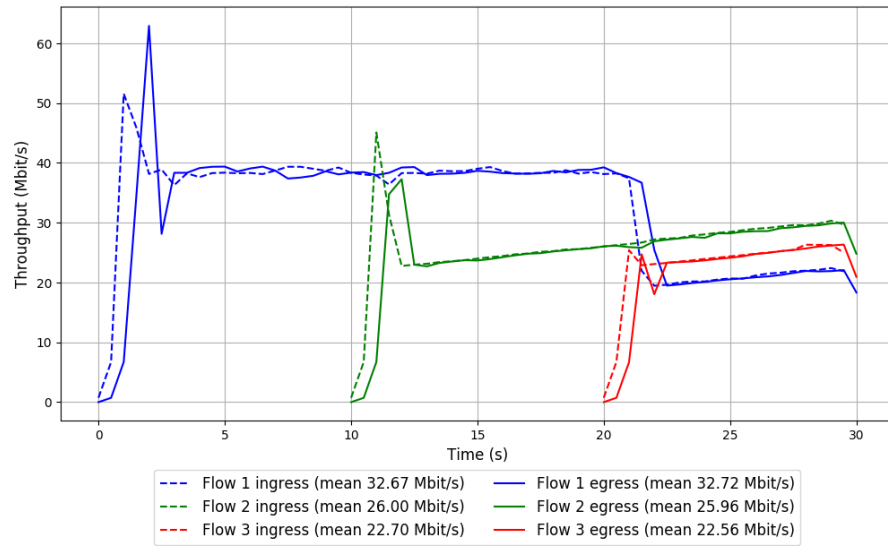
-- Flow 3:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 97.745 ms

Loss rate: 1.92%

Run 10: Report of TCP Vegas — Data Link

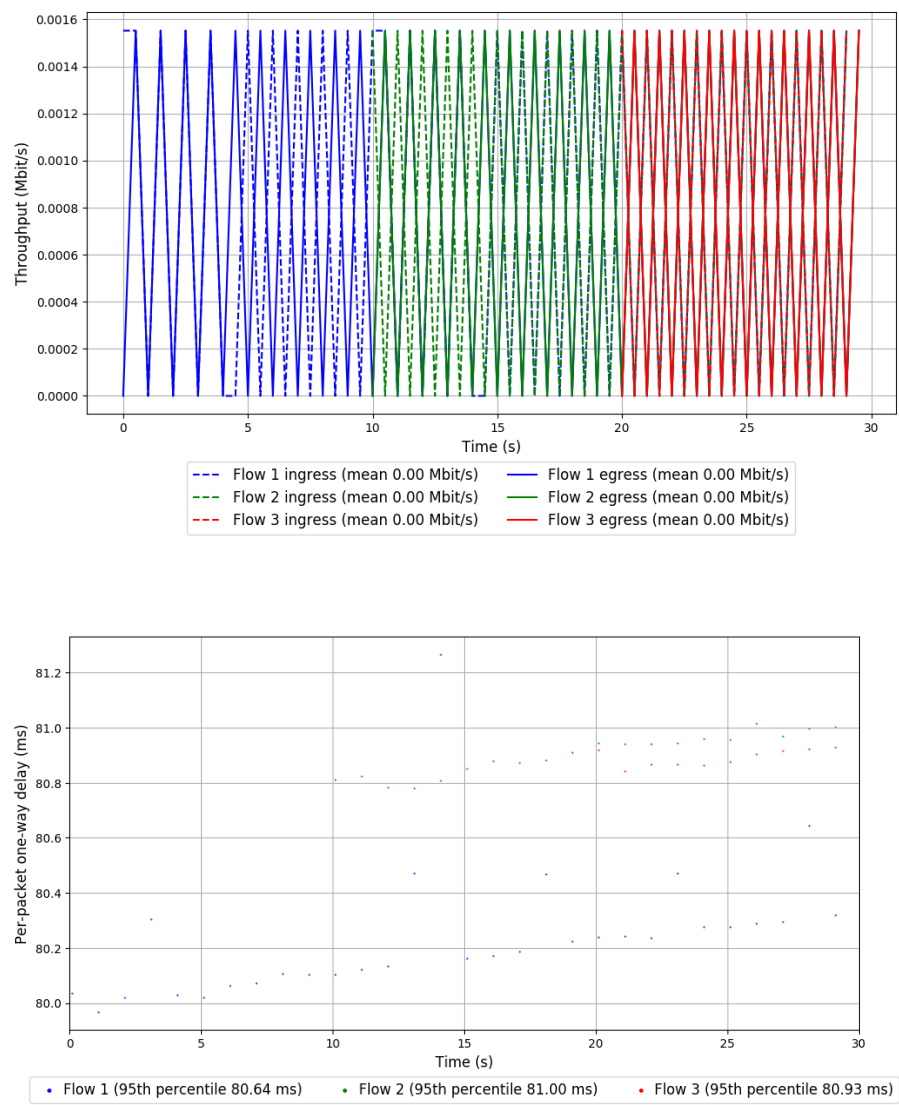


Run 1: Statistics of Verus

Start at: 2018-05-25 12:06:33
End at: 2018-05-25 12:07:03
Local clock offset: -5.931 ms
Remote clock offset: 10.752 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.644 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.928 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

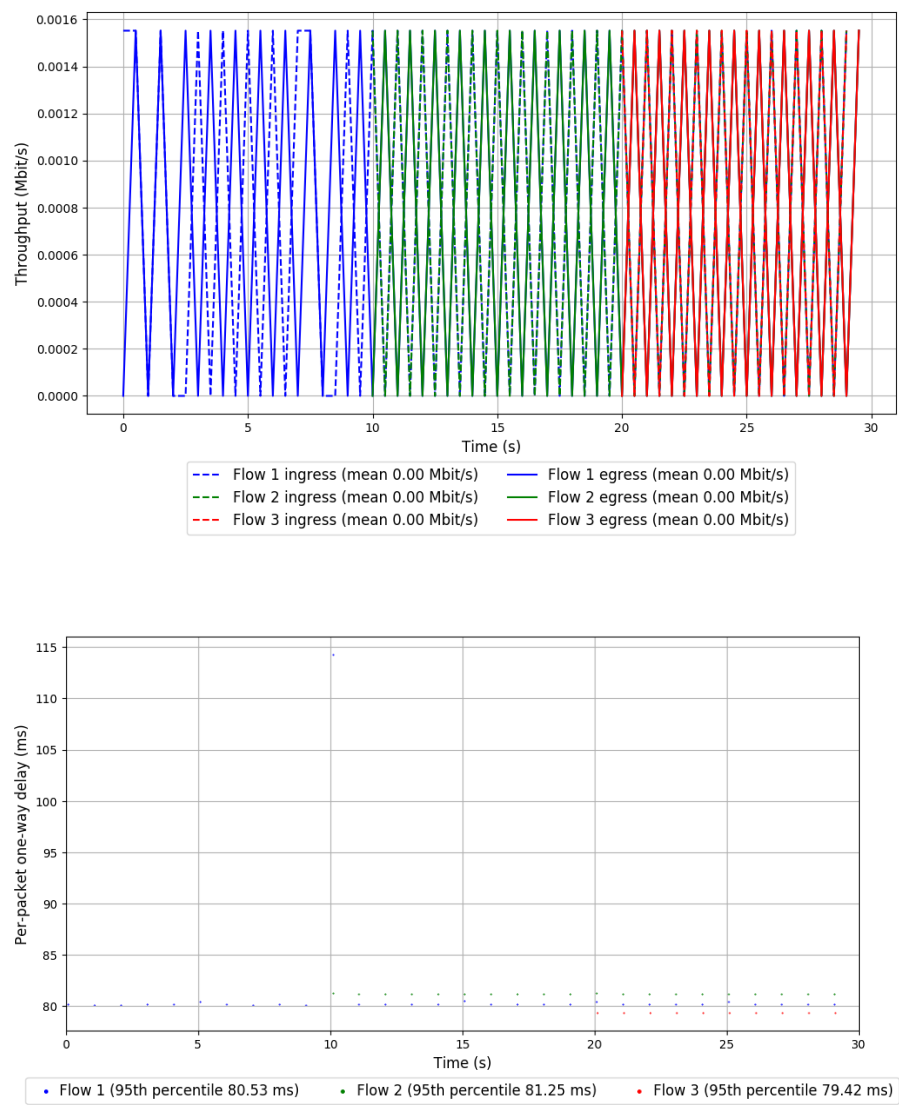


Run 2: Statistics of Verus

Start at: 2018-05-25 12:26:12
End at: 2018-05-25 12:26:42
Local clock offset: -7.757 ms
Remote clock offset: 14.466 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.236 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.532 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 79.415 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

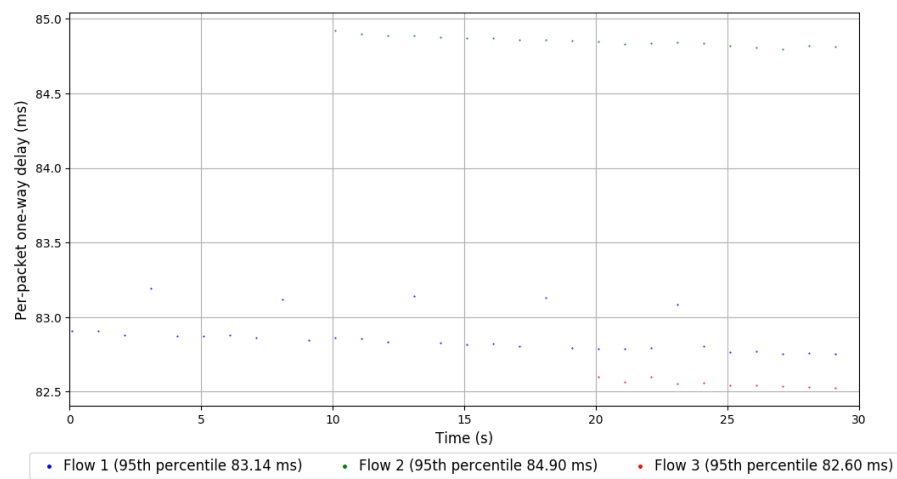
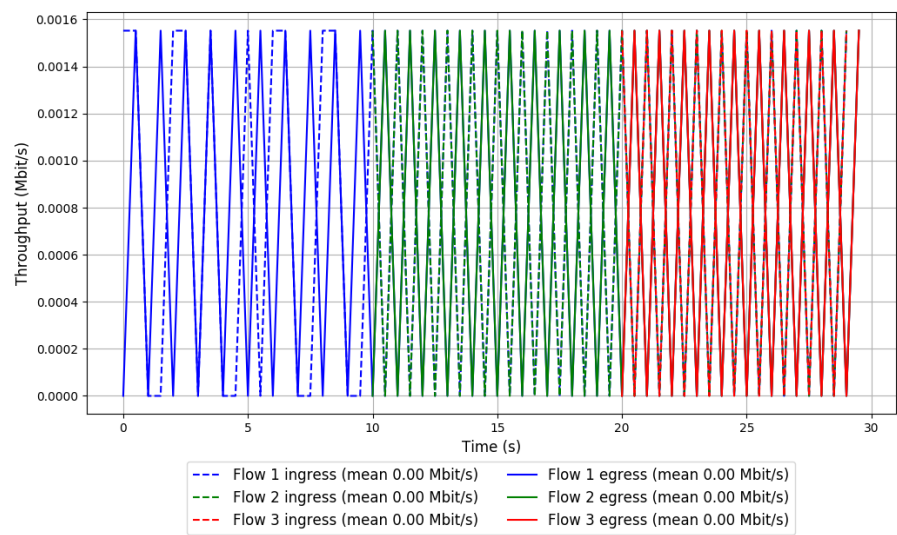


Run 3: Statistics of Verus

Start at: 2018-05-25 12:45:51
End at: 2018-05-25 12:46:21
Local clock offset: -7.346 ms
Remote clock offset: 6.562 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 84.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 83.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 84.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.601 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

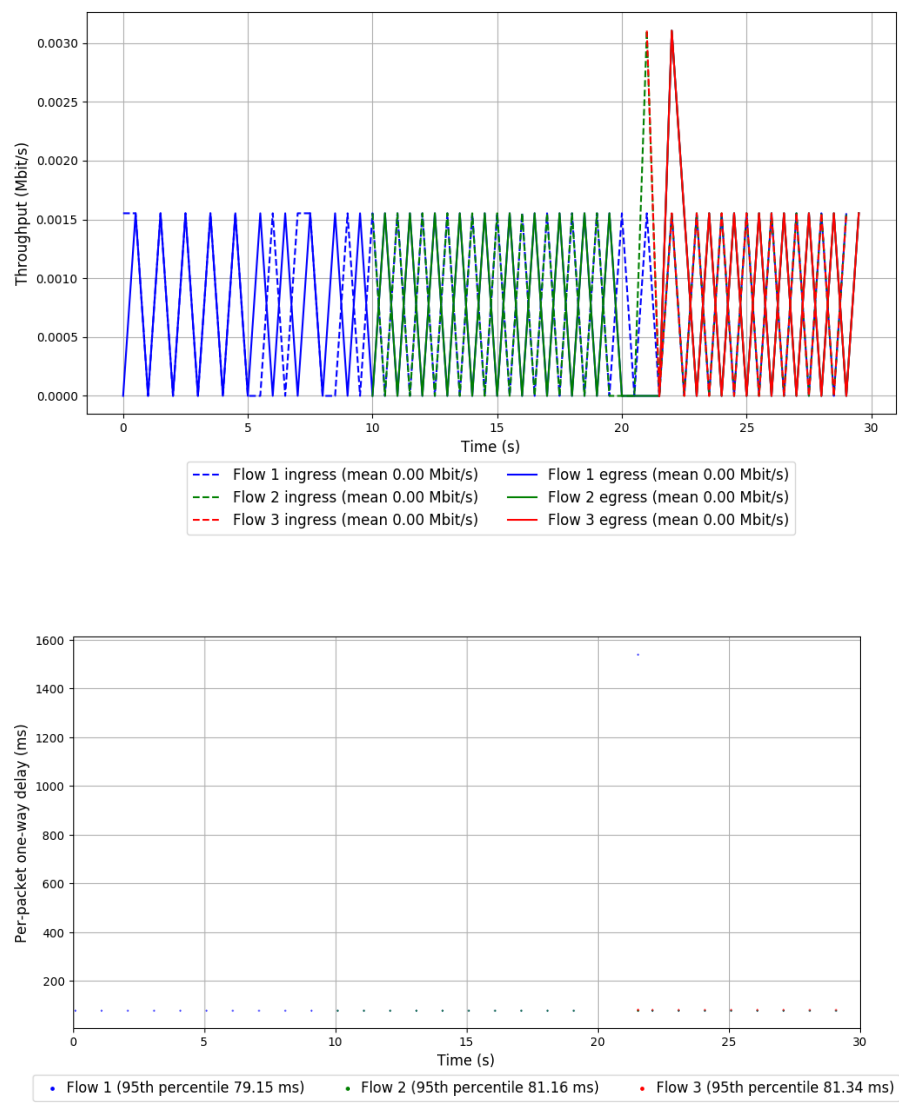


Run 4: Statistics of Verus

Start at: 2018-05-25 13:05:30
End at: 2018-05-25 13:06:00
Local clock offset: -2.563 ms
Remote clock offset: 7.751 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 79.151 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.157 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.343 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

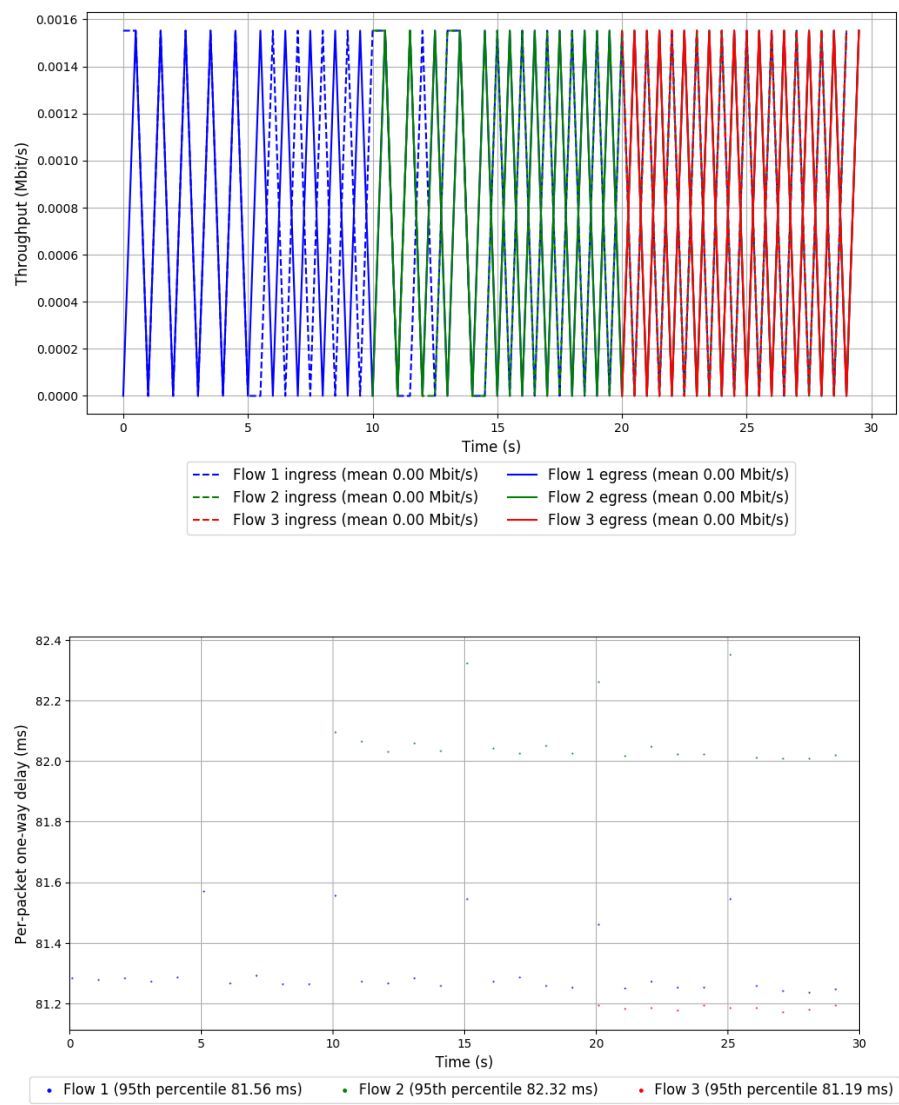


Run 5: Statistics of Verus

Start at: 2018-05-25 13:25:09
End at: 2018-05-25 13:25:39
Local clock offset: -0.079 ms
Remote clock offset: 6.619 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.556 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.324 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.195 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-25 13:44:48

End at: 2018-05-25 13:45:18

Local clock offset: 1.06 ms

Remote clock offset: 2.754 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 84.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.094 ms

Loss rate: 0.00%

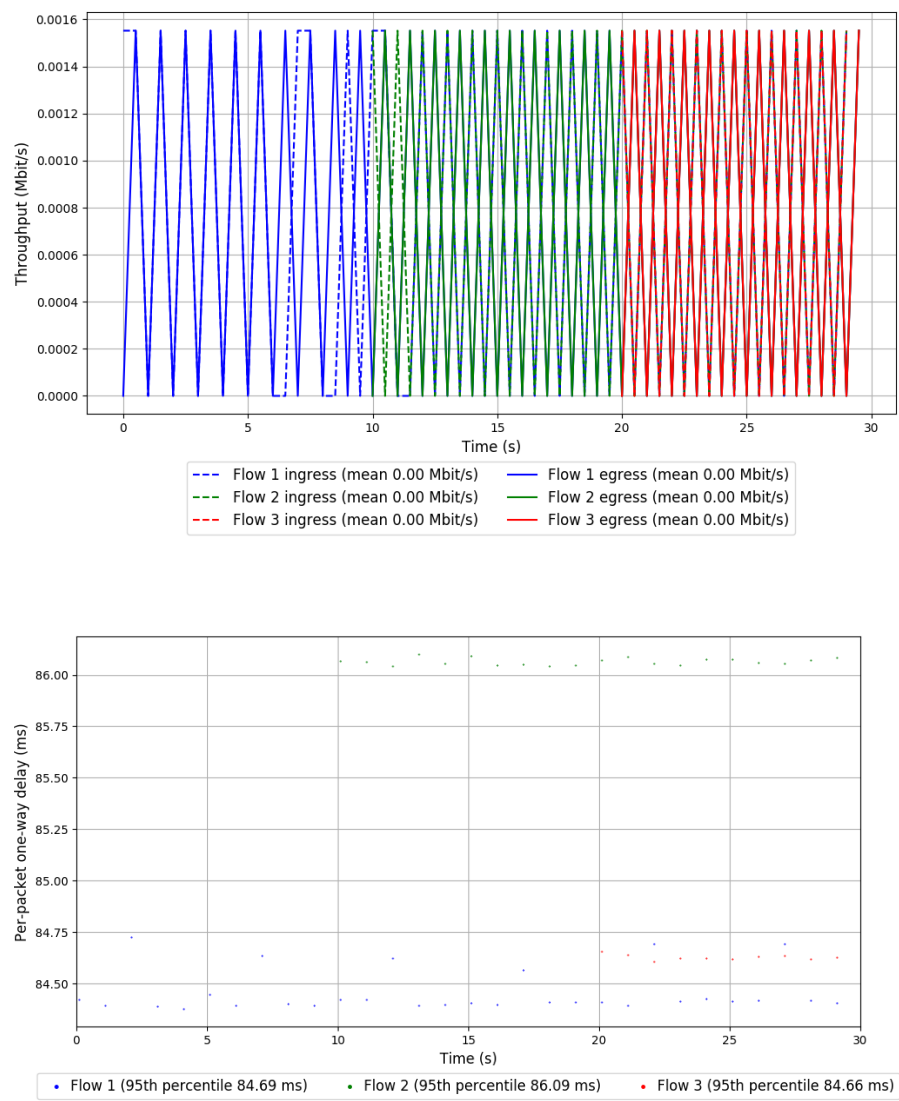
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 84.656 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link

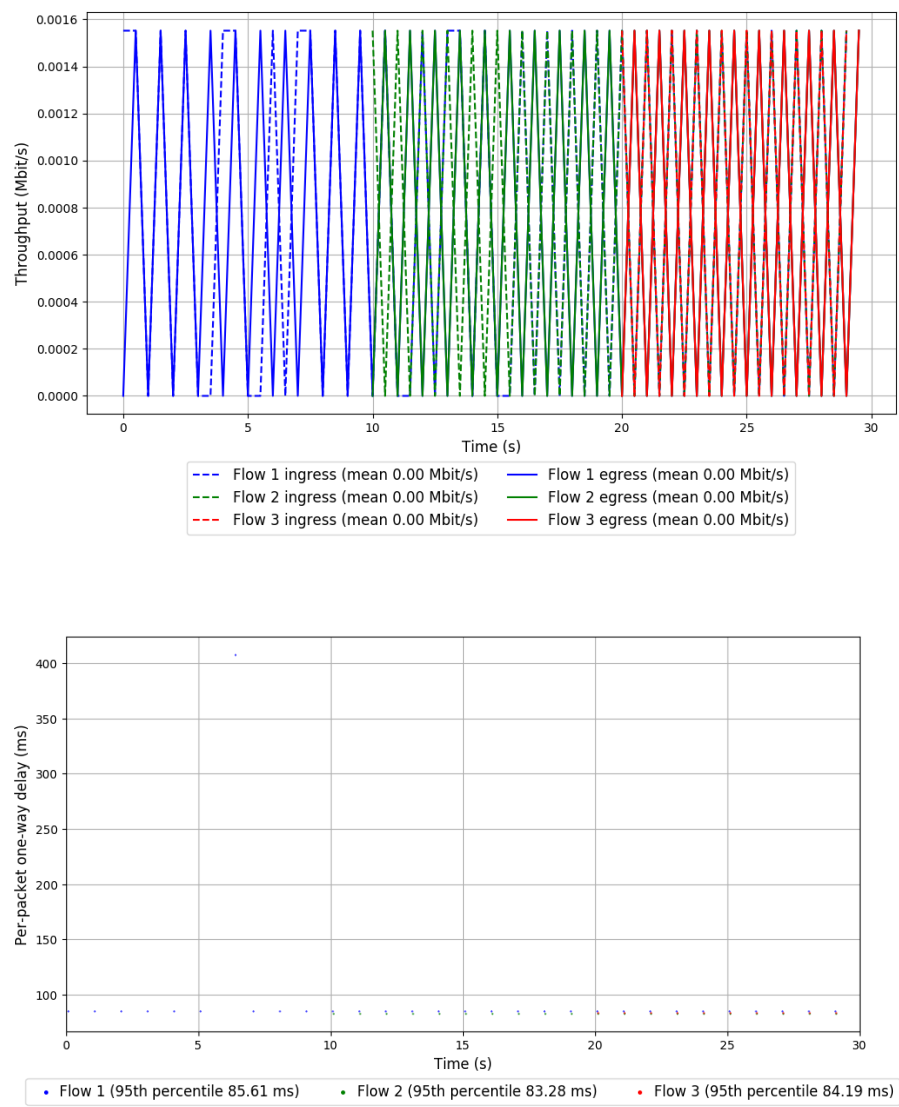


Run 7: Statistics of Verus

Start at: 2018-05-25 14:04:27
End at: 2018-05-25 14:04:57
Local clock offset: -4.857 ms
Remote clock offset: 3.733 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.611 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 83.281 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 84.190 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

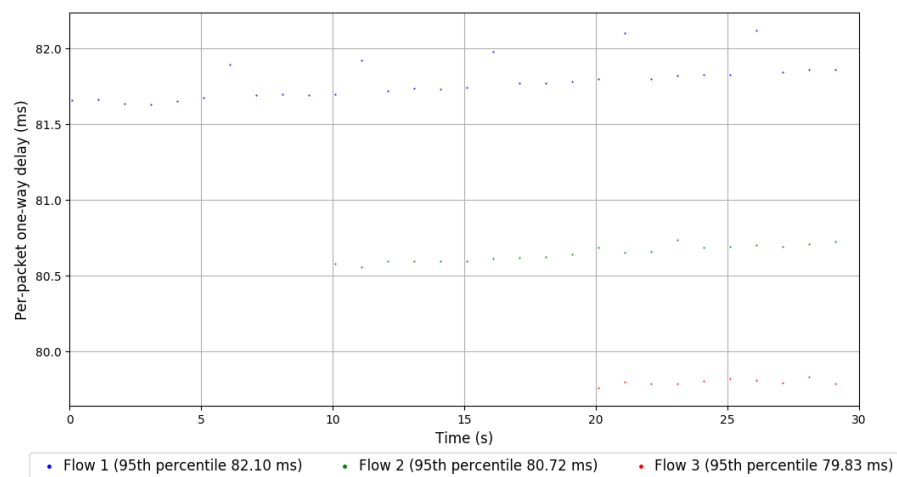
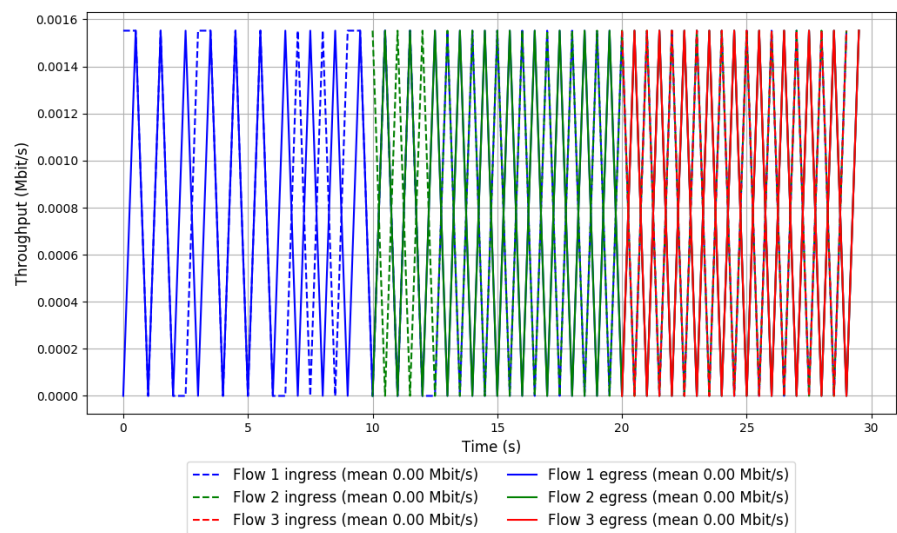


Run 8: Statistics of Verus

Start at: 2018-05-25 14:24:05
End at: 2018-05-25 14:24:35
Local clock offset: -8.101 ms
Remote clock offset: 11.741 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.723 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 79.833 ms
Loss rate: 0.00%

Run 8: Report of Verus — Data Link

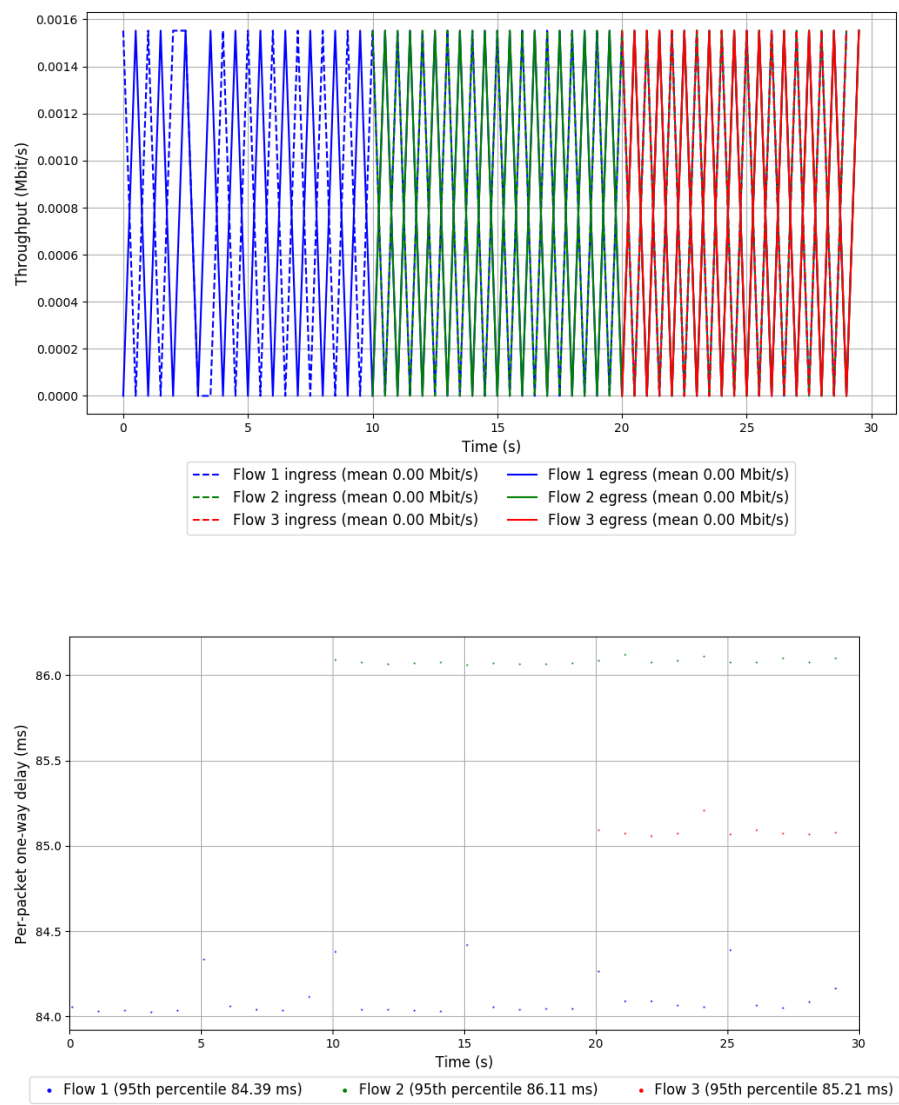


Run 9: Statistics of Verus

Start at: 2018-05-25 14:43:44
End at: 2018-05-25 14:44:14
Local clock offset: -3.895 ms
Remote clock offset: 11.611 ms

Below is generated by plot.py at 2018-05-25 15:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 86.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 84.387 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 86.113 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.208 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-25 15:03:23

End at: 2018-05-25 15:03:53

Local clock offset: -4.06 ms

Remote clock offset: 5.443 ms

Below is generated by plot.py at 2018-05-25 15:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.420 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.505 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 82.590 ms

Loss rate: 0.00%

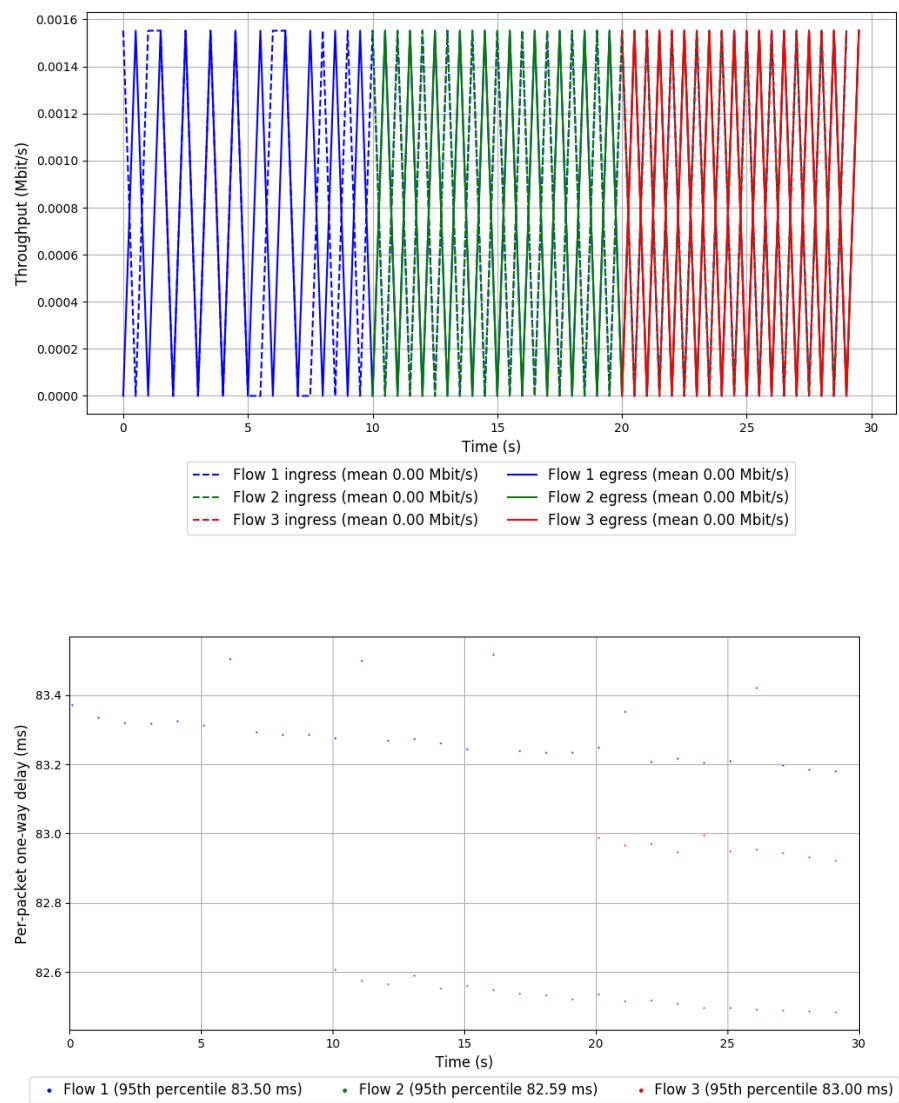
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 82.995 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 12:08:54

End at: 2018-05-25 12:09:24

Local clock offset: -7.068 ms

Remote clock offset: 6.439 ms

Below is generated by plot.py at 2018-05-25 15:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.63 Mbit/s

95th percentile per-packet one-way delay: 115.491 ms

Loss rate: 3.91%

-- Flow 1:

Average throughput: 51.80 Mbit/s

95th percentile per-packet one-way delay: 112.848 ms

Loss rate: 5.10%

-- Flow 2:

Average throughput: 30.11 Mbit/s

95th percentile per-packet one-way delay: 115.660 ms

Loss rate: 1.24%

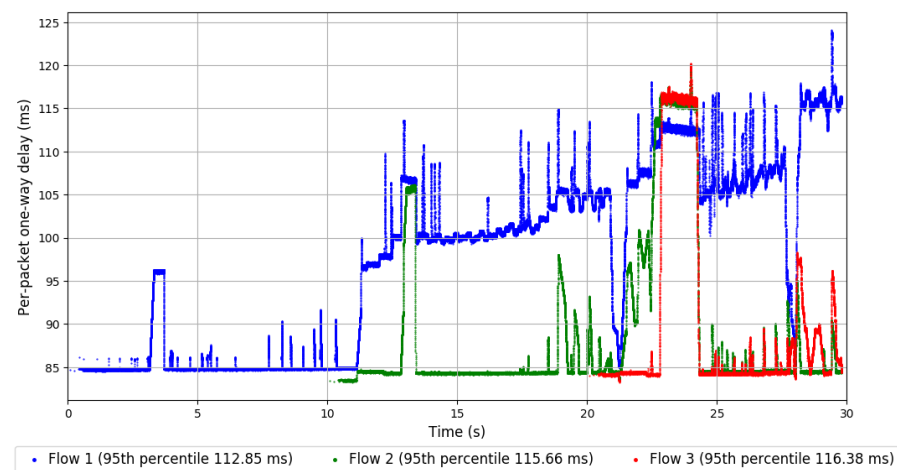
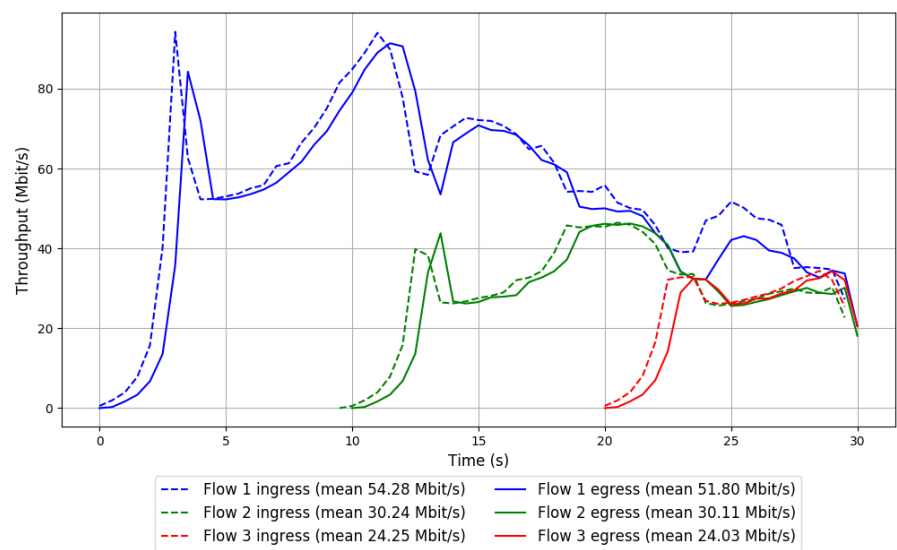
-- Flow 3:

Average throughput: 24.03 Mbit/s

95th percentile per-packet one-way delay: 116.384 ms

Loss rate: 2.54%

Run 1: Report of PCC-Vivace — Data Link

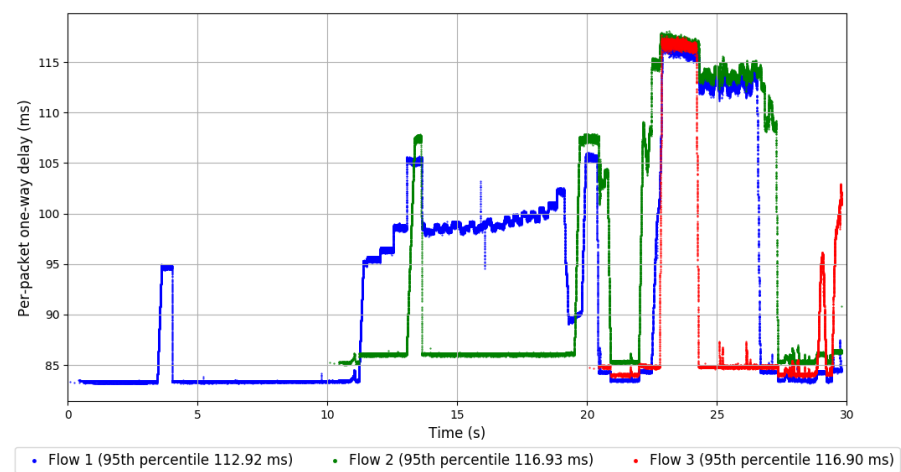
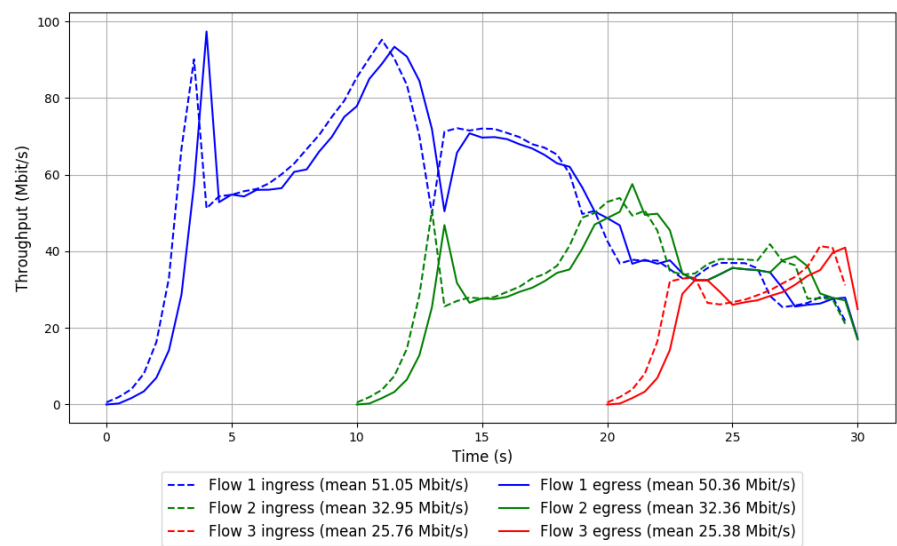


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 12:28:33
End at: 2018-05-25 12:29:03
Local clock offset: -7.554 ms
Remote clock offset: 10.989 ms

Below is generated by plot.py at 2018-05-25 15:39:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.11 Mbit/s
95th percentile per-packet one-way delay: 115.998 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 112.921 ms
Loss rate: 1.89%
-- Flow 2:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 116.927 ms
Loss rate: 2.58%
-- Flow 3:
Average throughput: 25.38 Mbit/s
95th percentile per-packet one-way delay: 116.896 ms
Loss rate: 3.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

End at: 2018-05-25 12:48:42

Local clock offset: -7.39 ms

Remote clock offset: 6.003 ms

Below is generated by plot.py at 2018-05-25 15:39:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.91 Mbit/s

95th percentile per-packet one-way delay: 112.875 ms

Loss rate: 3.69%

-- Flow 1:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 108.319 ms

Loss rate: 4.16%

-- Flow 2:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 115.676 ms

Loss rate: 2.64%

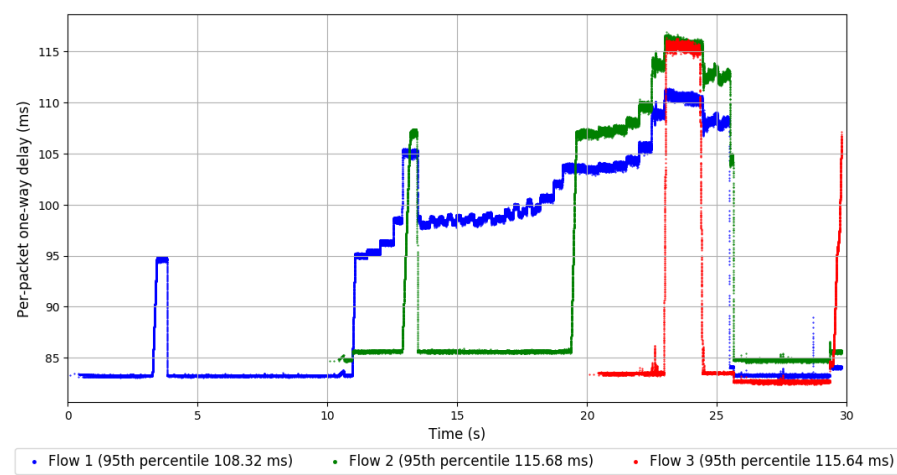
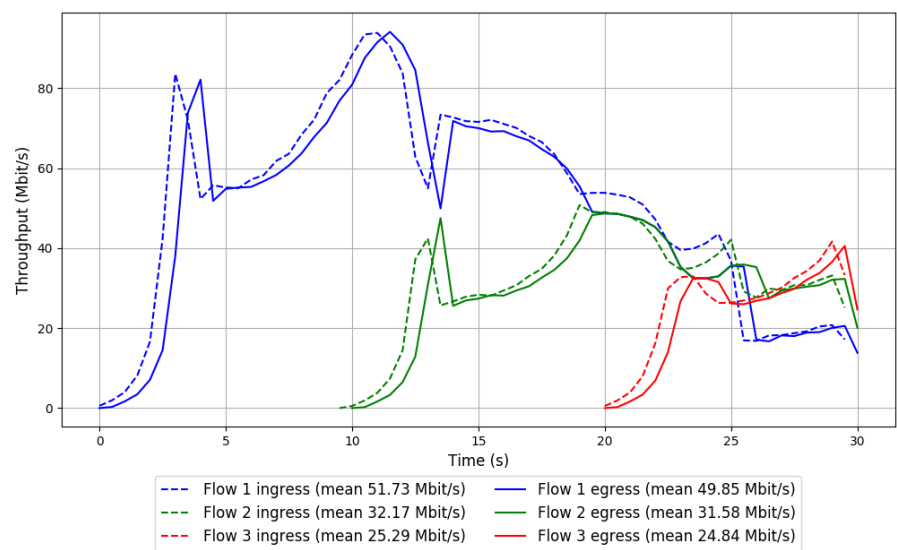
-- Flow 3:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 115.638 ms

Loss rate: 3.46%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 13:07:51

End at: 2018-05-25 13:08:21

Local clock offset: -2.8 ms

Remote clock offset: 7.508 ms

Below is generated by plot.py at 2018-05-25 15:39:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 109.852 ms

Loss rate: 3.72%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 107.294 ms

Loss rate: 4.44%

-- Flow 2:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 111.379 ms

Loss rate: 2.35%

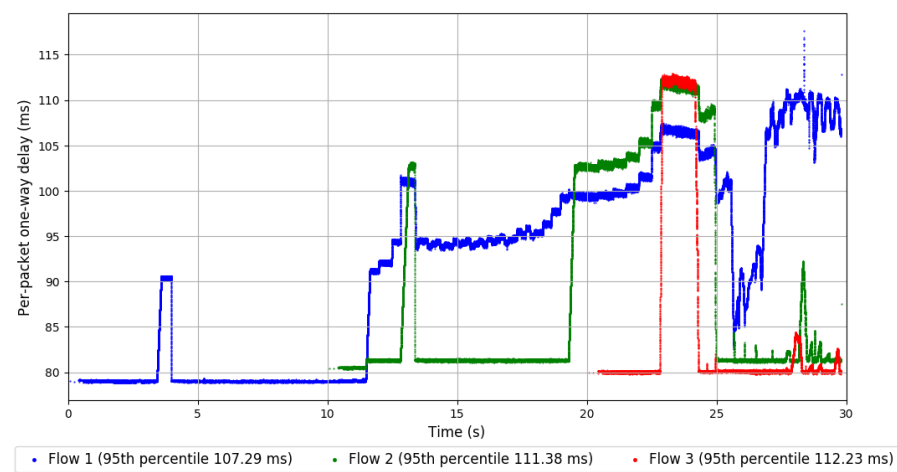
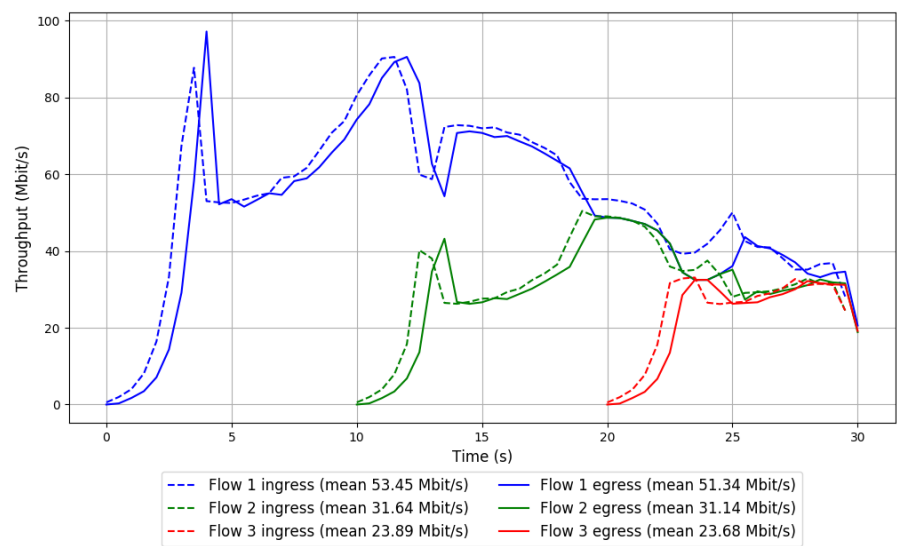
-- Flow 3:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 112.232 ms

Loss rate: 2.49%

Run 4: Report of PCC-Vivace — Data Link

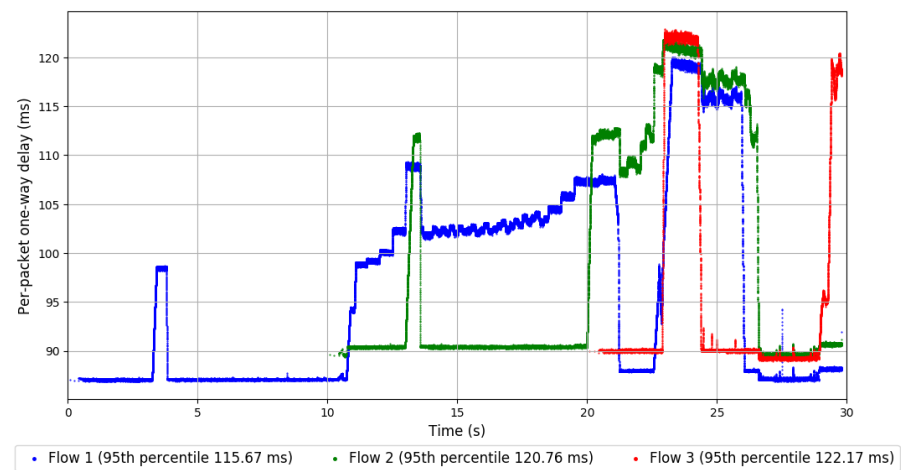
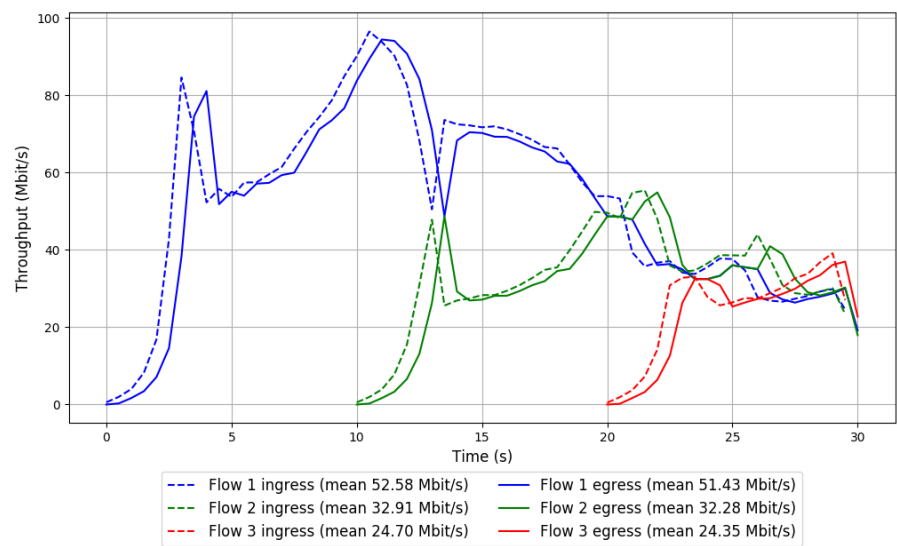


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 13:27:30
End at: 2018-05-25 13:28:00
Local clock offset: -0.651 ms
Remote clock offset: -0.718 ms

Below is generated by plot.py at 2018-05-25 15:39:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.79 Mbit/s
95th percentile per-packet one-way delay: 119.066 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 51.43 Mbit/s
95th percentile per-packet one-way delay: 115.669 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 32.28 Mbit/s
95th percentile per-packet one-way delay: 120.756 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 122.169 ms
Loss rate: 3.06%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 13:47:08

End at: 2018-05-25 13:47:38

Local clock offset: 1.173 ms

Remote clock offset: 3.11 ms

Below is generated by plot.py at 2018-05-25 15:39:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 113.684 ms

Loss rate: 5.01%

-- Flow 1:

Average throughput: 51.40 Mbit/s

95th percentile per-packet one-way delay: 111.715 ms

Loss rate: 6.42%

-- Flow 2:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 115.698 ms

Loss rate: 2.32%

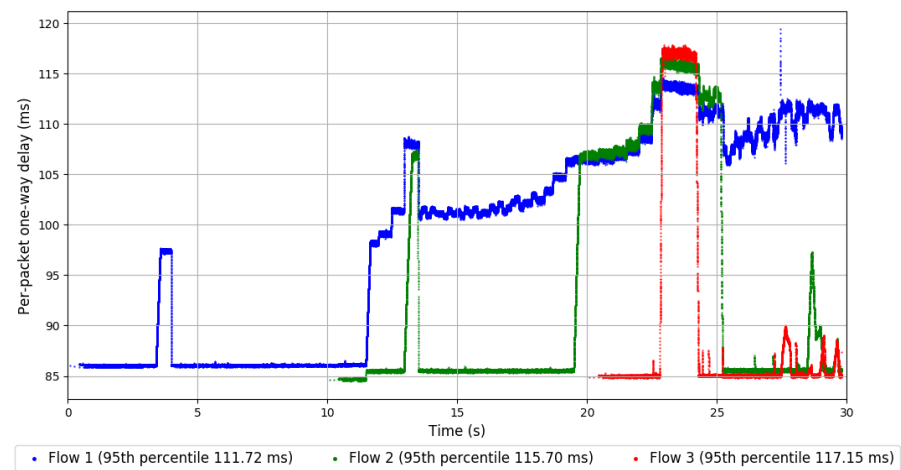
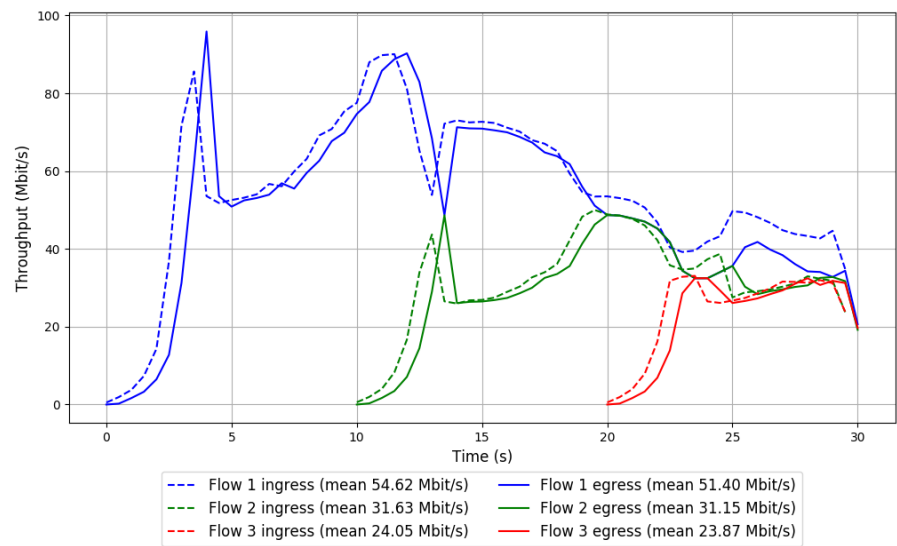
-- Flow 3:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 117.150 ms

Loss rate: 2.35%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 14:06:47

End at: 2018-05-25 14:07:17

Local clock offset: -5.649 ms

Remote clock offset: 3.704 ms

Below is generated by plot.py at 2018-05-25 15:39:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.56 Mbit/s

95th percentile per-packet one-way delay: 115.169 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 112.583 ms

Loss rate: 4.55%

-- Flow 2:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 117.149 ms

Loss rate: 2.43%

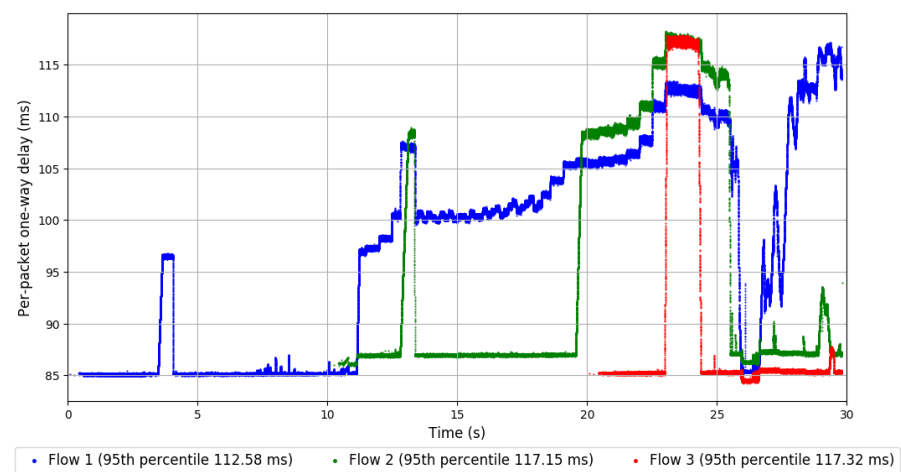
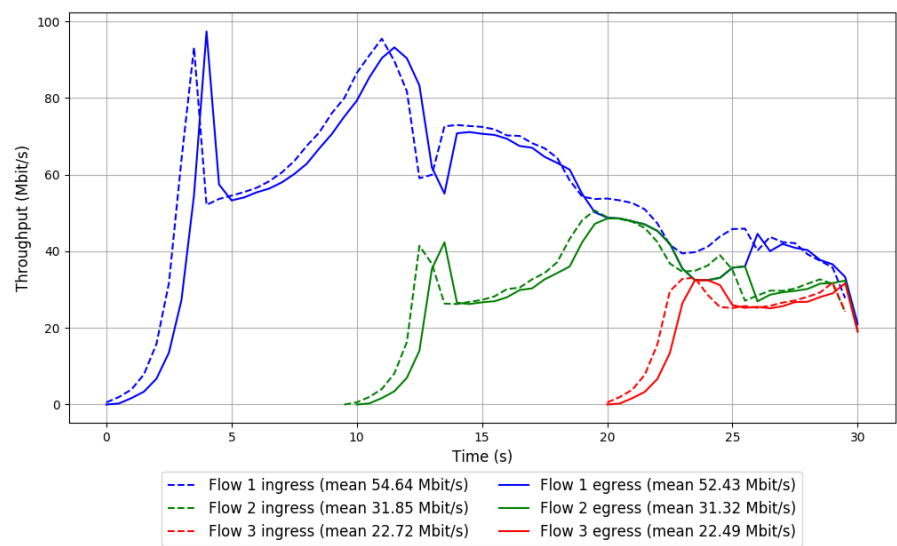
-- Flow 3:

Average throughput: 22.49 Mbit/s

95th percentile per-packet one-way delay: 117.316 ms

Loss rate: 2.65%

Run 7: Report of PCC-Vivace — Data Link

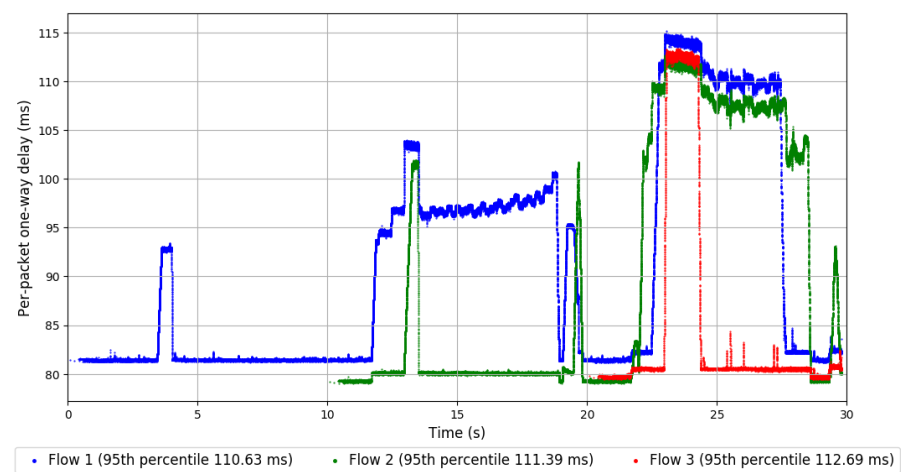
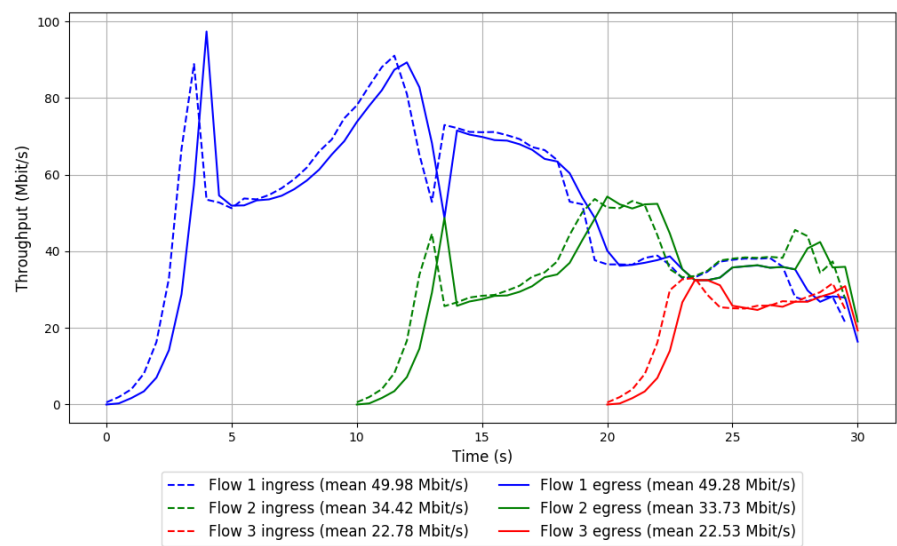


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 14:26:26
End at: 2018-05-25 14:26:56
Local clock offset: -7.704 ms
Remote clock offset: 12.668 ms

Below is generated by plot.py at 2018-05-25 15:39:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 111.579 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 49.28 Mbit/s
95th percentile per-packet one-way delay: 110.630 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 111.390 ms
Loss rate: 2.80%
-- Flow 3:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 112.694 ms
Loss rate: 2.72%

Run 8: Report of PCC-Vivace — Data Link

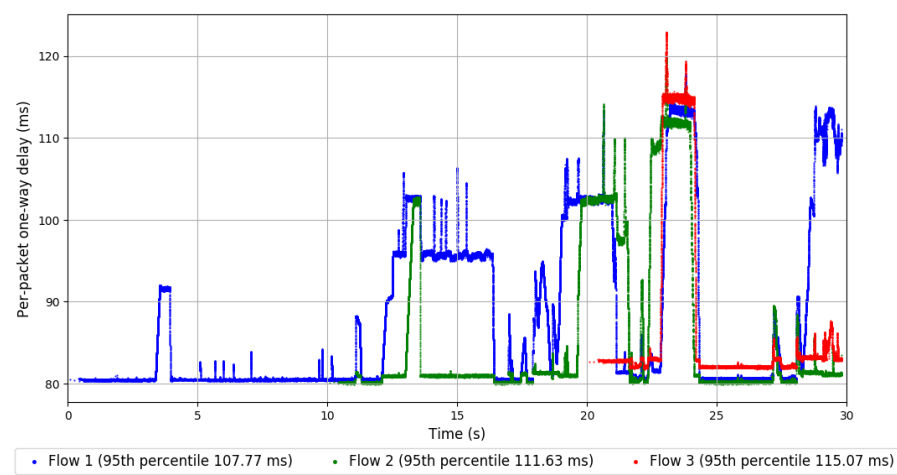
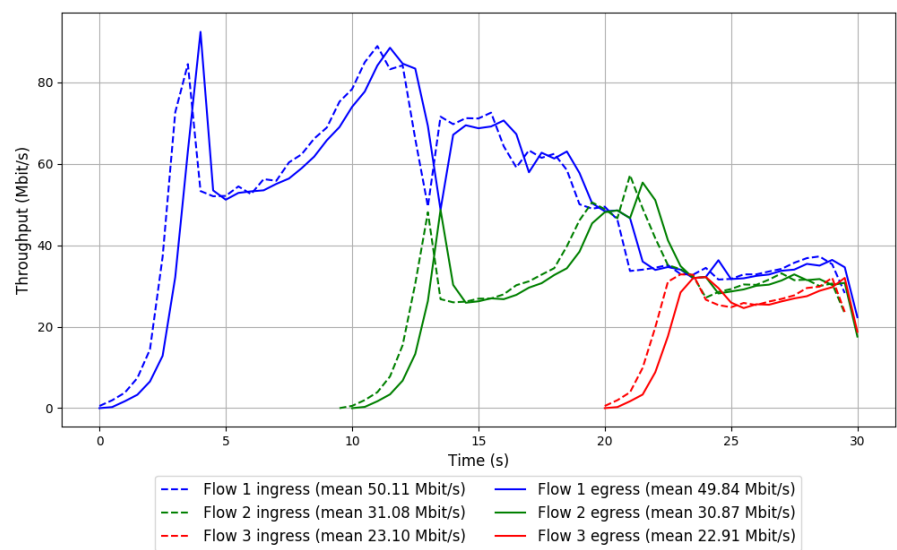


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 14:46:04
End at: 2018-05-25 14:46:34
Local clock offset: -2.97 ms
Remote clock offset: 16.603 ms

Below is generated by plot.py at 2018-05-25 15:39:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.81 Mbit/s
95th percentile per-packet one-way delay: 111.597 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 49.84 Mbit/s
95th percentile per-packet one-way delay: 107.768 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 30.87 Mbit/s
95th percentile per-packet one-way delay: 111.632 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 115.073 ms
Loss rate: 2.47%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

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

End at: 2018-05-25 15:06:13

Local clock offset: -3.198 ms

Remote clock offset: 4.867 ms

Below is generated by plot.py at 2018-05-25 15:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.56 Mbit/s

95th percentile per-packet one-way delay: 116.322 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 115.008 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 115.942 ms

Loss rate: 1.97%

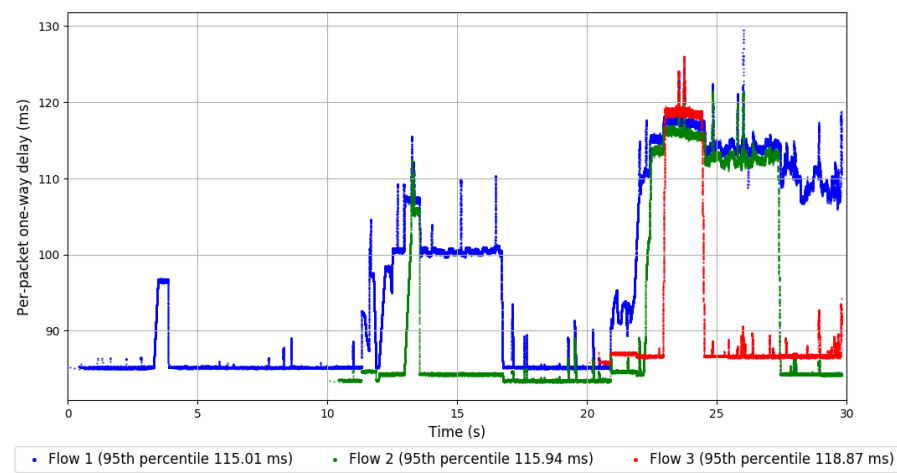
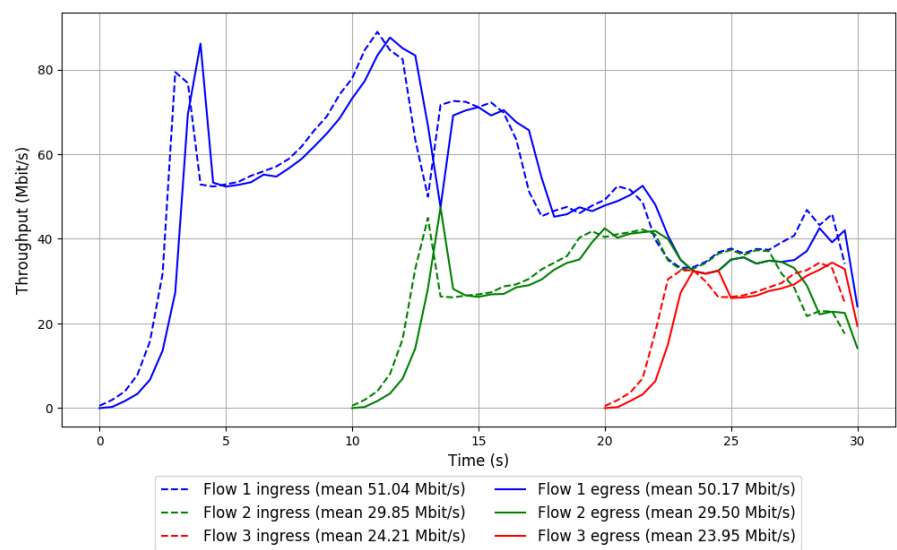
-- Flow 3:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 118.871 ms

Loss rate: 2.72%

Run 10: Report of PCC-Vivace — Data Link

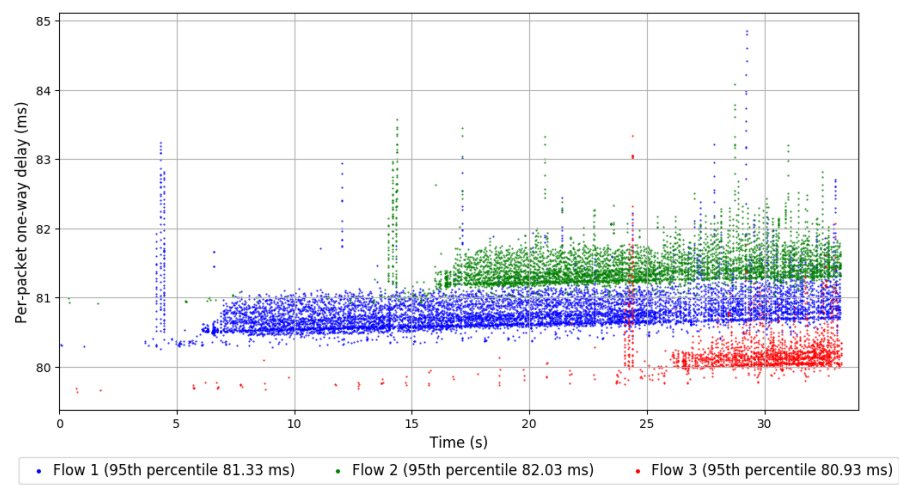
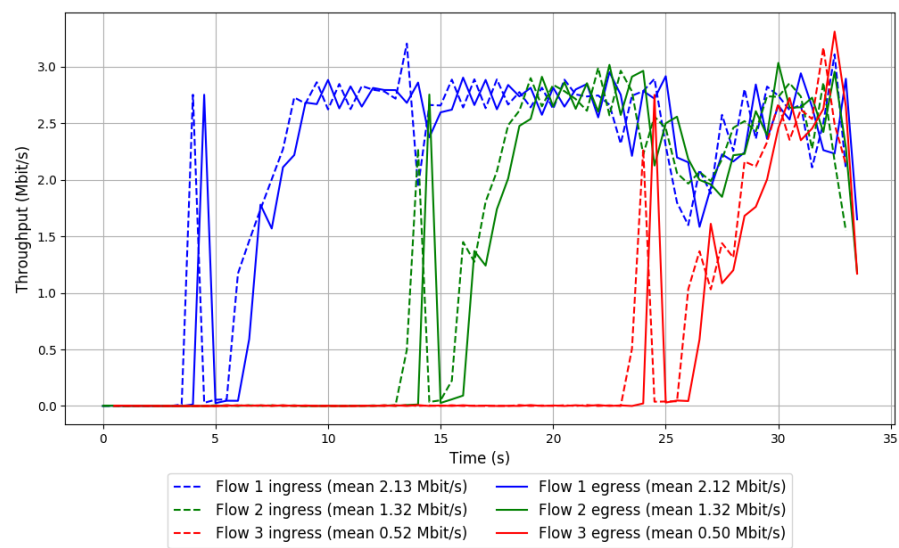


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 12:11:22
End at: 2018-05-25 12:11:52
Local clock offset: -6.615 ms
Remote clock offset: 12.064 ms

# Below is generated by plot.py at 2018-05-25 15:40:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 81.759 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 81.330 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 82.027 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 80.929 ms
Loss rate: 3.28%
```

Run 1: Report of WebRTC media — Data Link

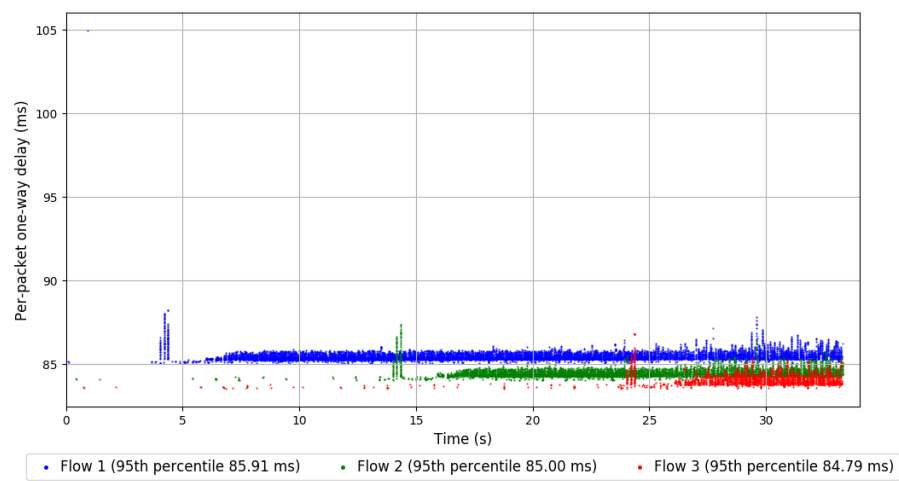
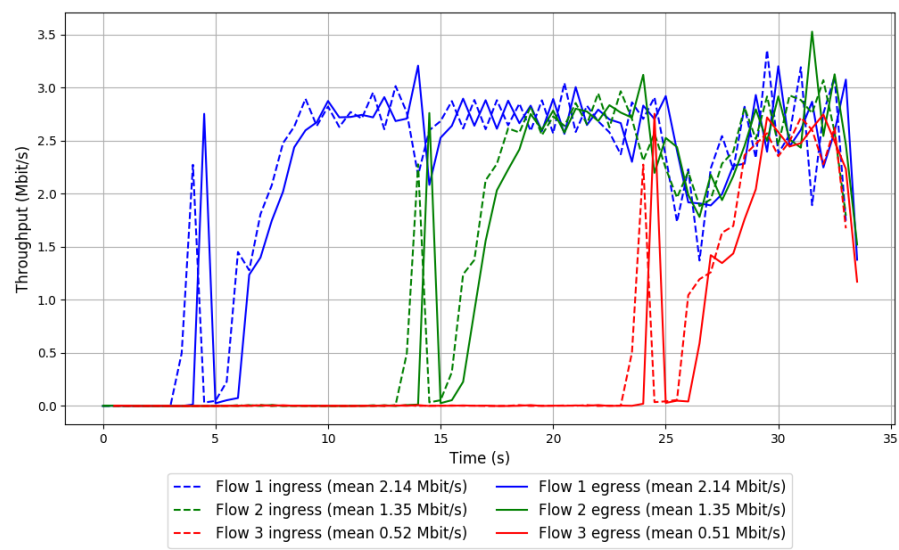


Run 2: Statistics of WebRTC media

Start at: 2018-05-25 12:31:01
End at: 2018-05-25 12:31:31
Local clock offset: -7.412 ms
Remote clock offset: 12.112 ms

Below is generated by plot.py at 2018-05-25 15:40:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 85.787 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 85.911 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 85.002 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 84.790 ms
Loss rate: 2.69%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 12:50:40

End at: 2018-05-25 12:51:10

Local clock offset: -7.438 ms

Remote clock offset: 4.356 ms

Below is generated by plot.py at 2018-05-25 15:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 86.037 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 86.150 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 84.573 ms

Loss rate: 1.08%

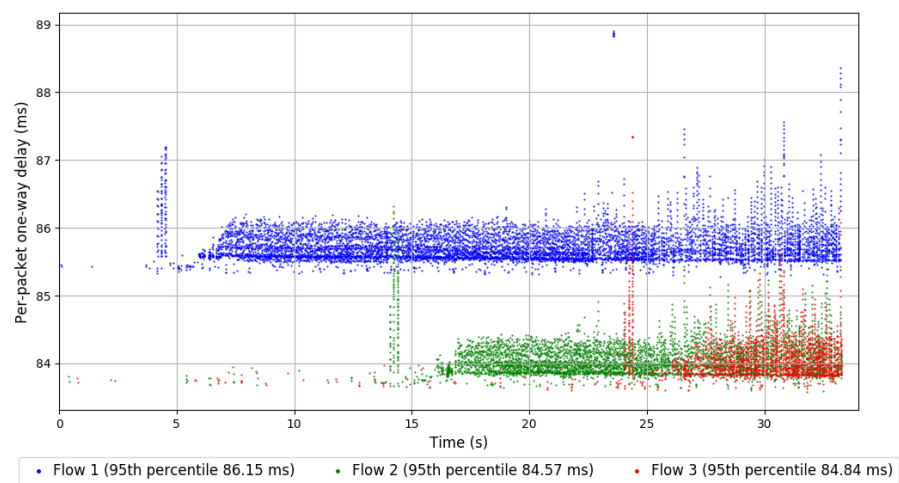
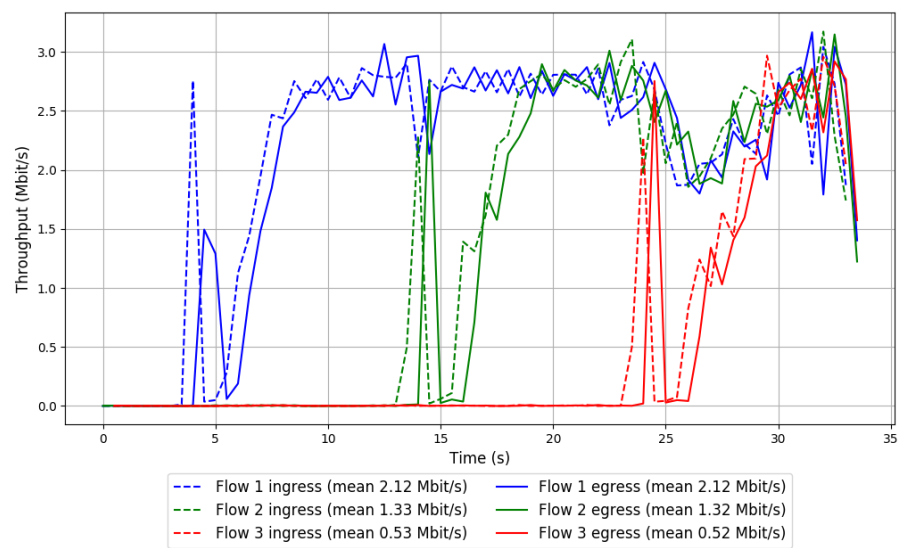
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 84.838 ms

Loss rate: 2.44%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 13:10:19

End at: 2018-05-25 13:10:49

Local clock offset: -1.63 ms

Remote clock offset: 3.741 ms

Below is generated by plot.py at 2018-05-25 15:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 85.788 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 85.772 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 85.922 ms

Loss rate: 0.73%

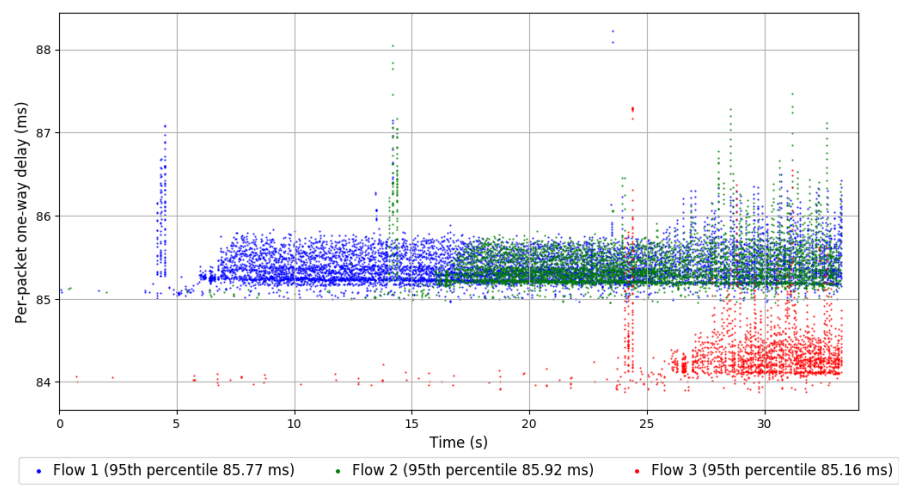
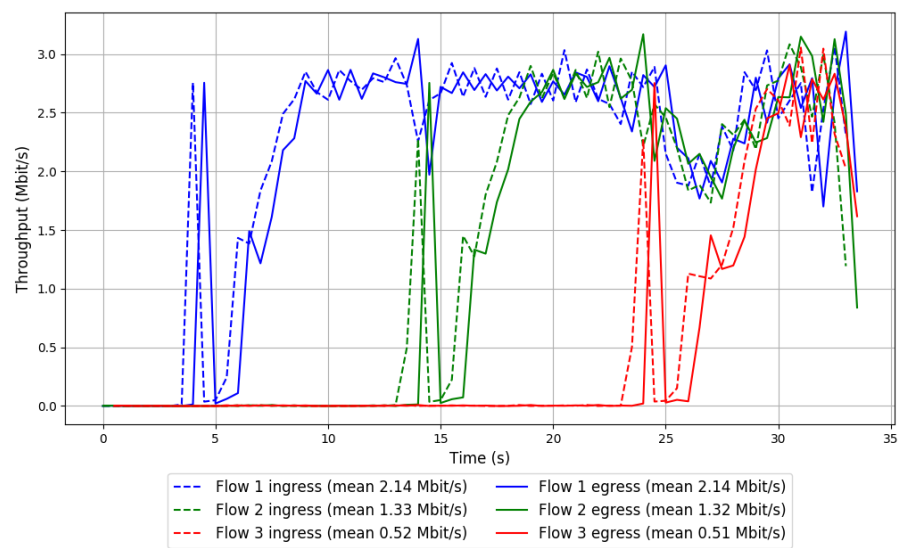
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 85.158 ms

Loss rate: 2.50%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 13:29:58

End at: 2018-05-25 13:30:28

Local clock offset: 0.256 ms

Remote clock offset: 3.819 ms

Below is generated by plot.py at 2018-05-25 15:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 85.635 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 85.374 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 85.817 ms

Loss rate: 1.09%

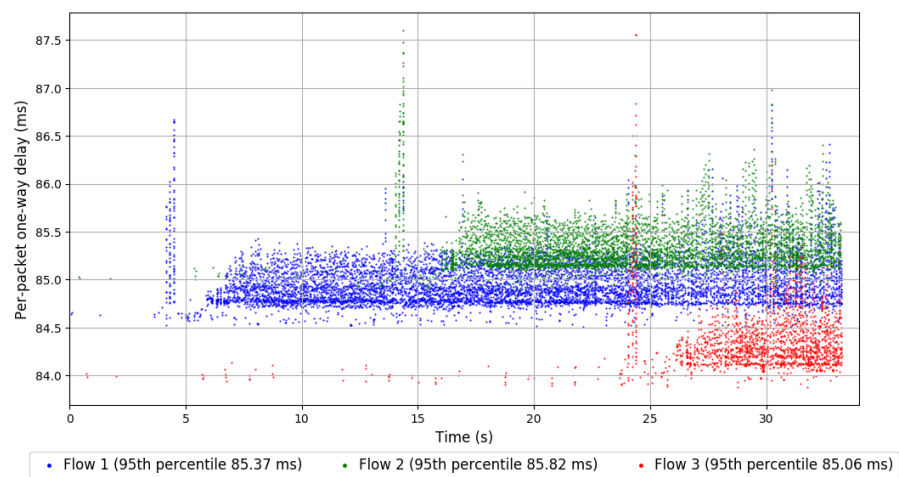
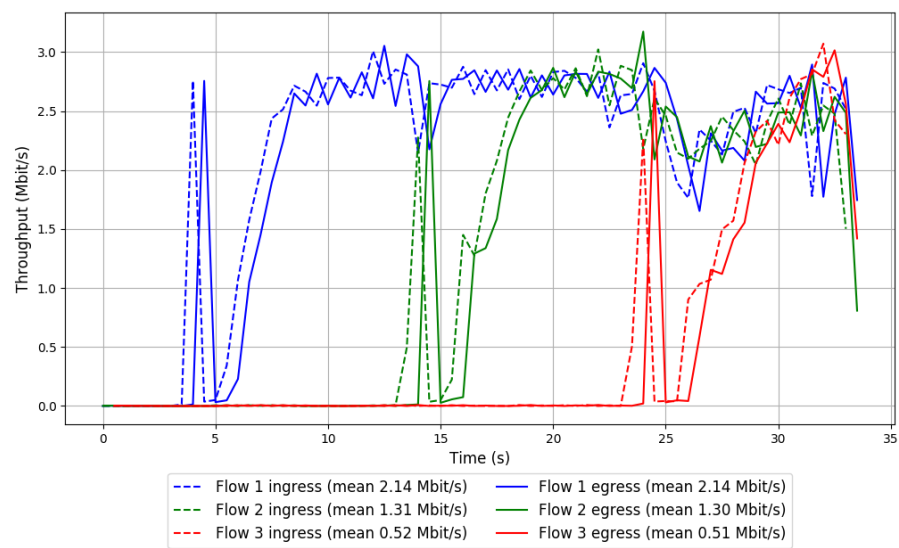
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 85.061 ms

Loss rate: 3.51%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-25 13:49:37

End at: 2018-05-25 13:50:07

Local clock offset: 0.535 ms

Remote clock offset: 3.197 ms

Below is generated by plot.py at 2018-05-25 15:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 85.756 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 84.970 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 84.272 ms

Loss rate: 0.58%

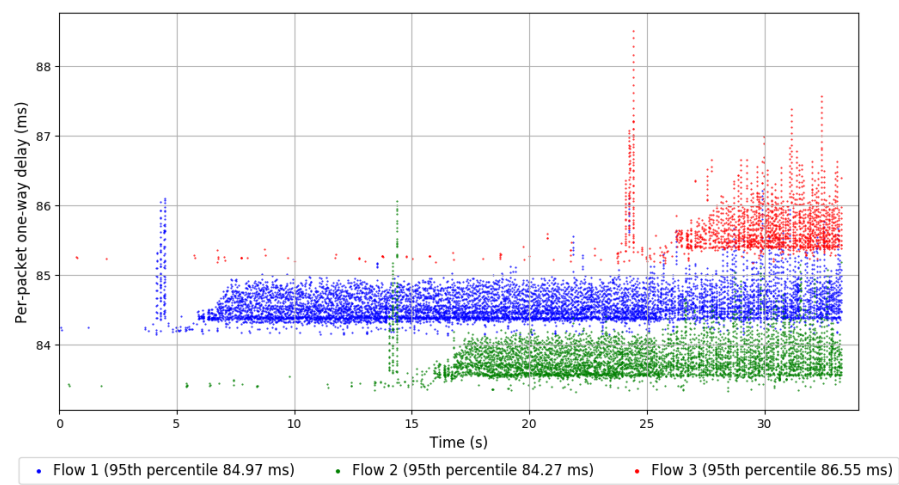
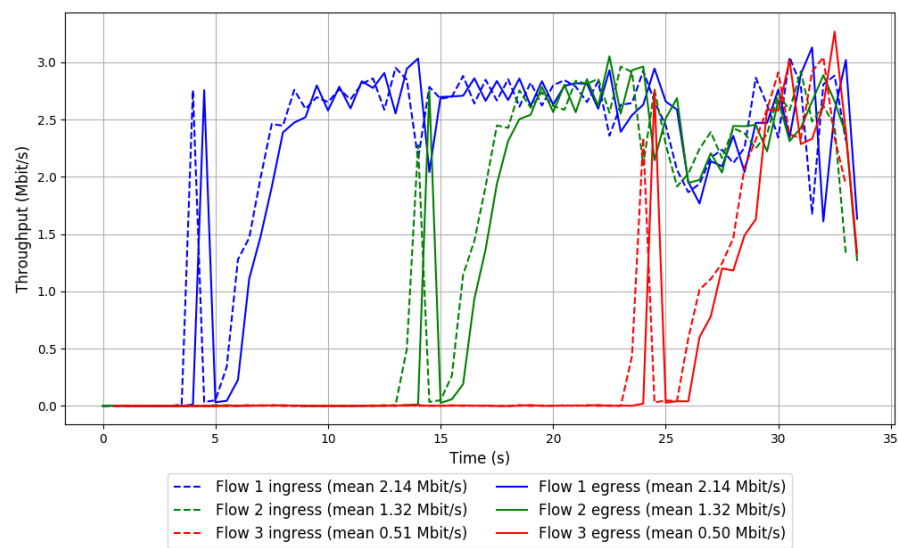
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.551 ms

Loss rate: 2.97%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 14:09:16

End at: 2018-05-25 14:09:46

Local clock offset: -6.339 ms

Remote clock offset: 3.613 ms

Below is generated by plot.py at 2018-05-25 15:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 86.791 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.621 ms

Loss rate: 1.07%

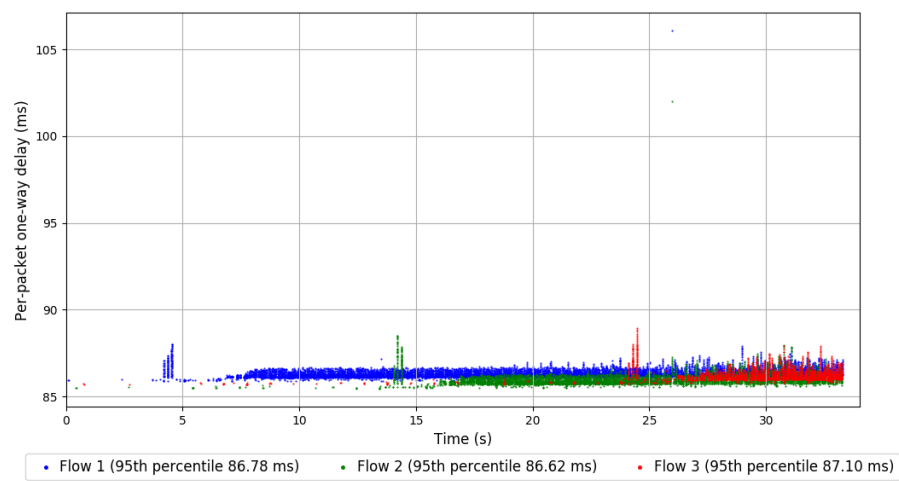
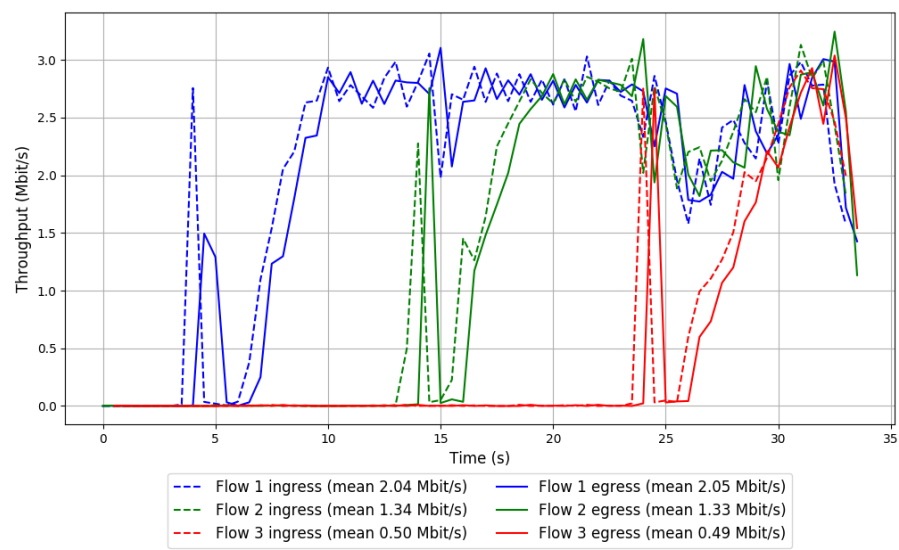
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 87.100 ms

Loss rate: 2.59%

Run 7: Report of WebRTC media — Data Link

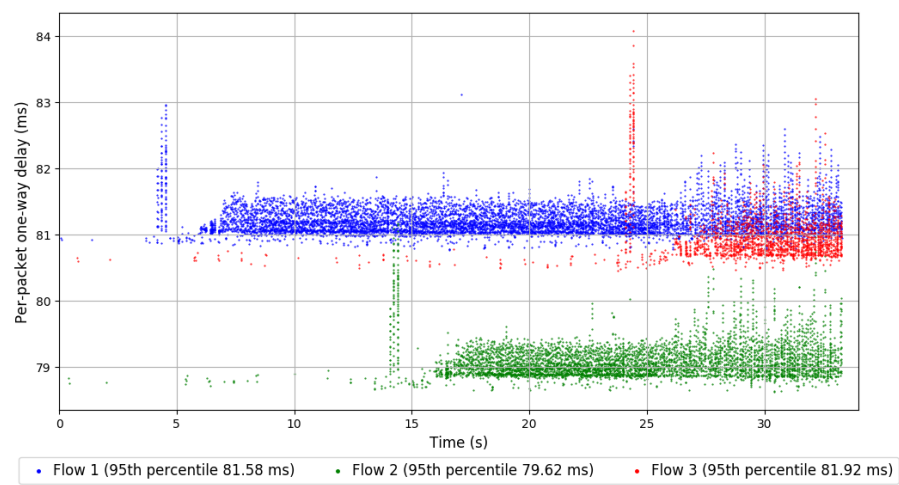
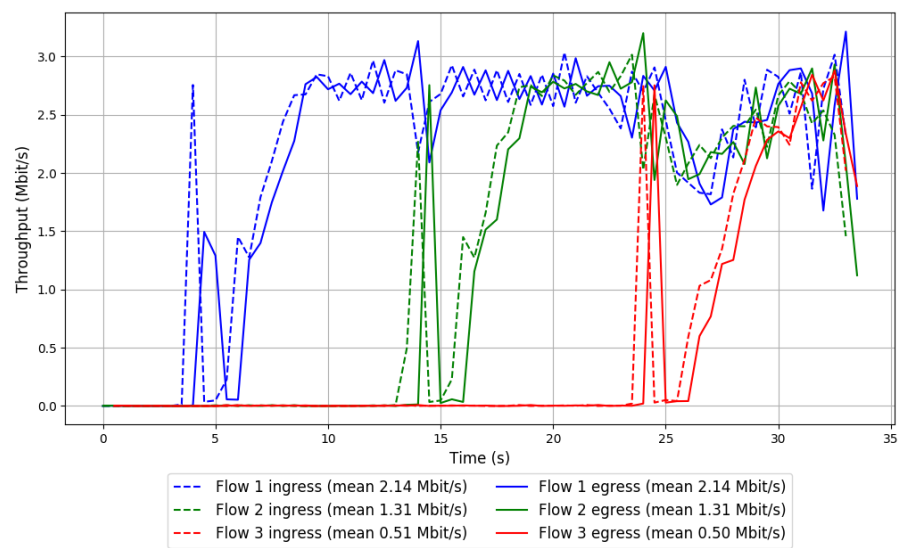


Run 8: Statistics of WebRTC media

Start at: 2018-05-25 14:28:54
End at: 2018-05-25 14:29:24
Local clock offset: -7.142 ms
Remote clock offset: 13.376 ms

Below is generated by plot.py at 2018-05-25 15:40:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 81.525 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 81.579 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 79.622 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 81.921 ms
Loss rate: 2.34%

Run 8: Report of WebRTC media — Data Link

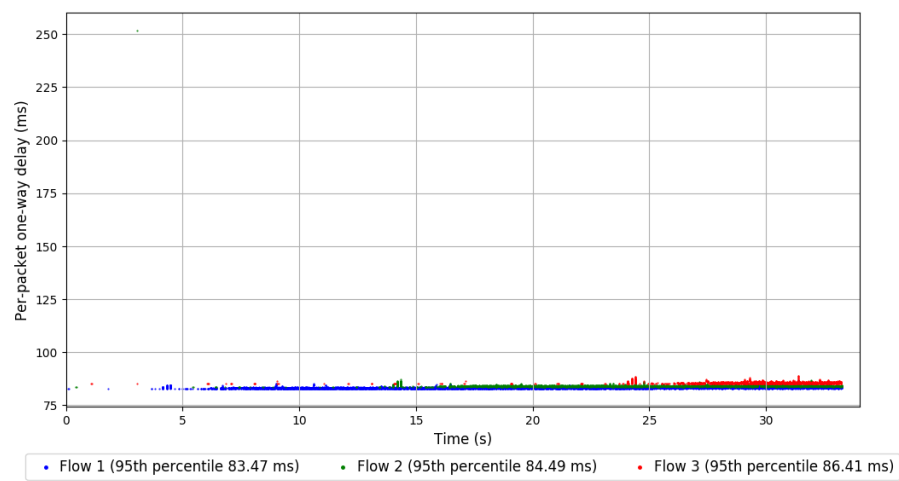
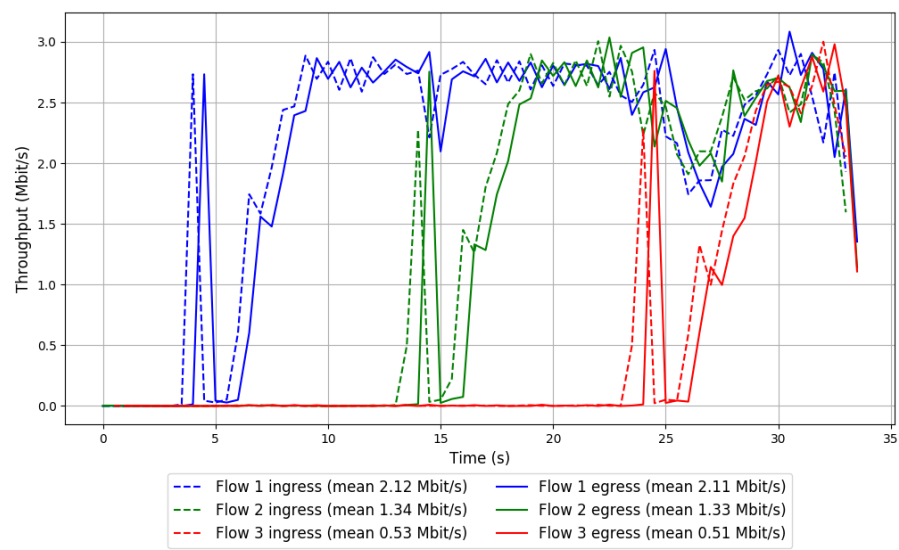


Run 9: Statistics of WebRTC media

Start at: 2018-05-25 14:48:33
End at: 2018-05-25 14:49:03
Local clock offset: -3.625 ms
Remote clock offset: 13.054 ms

Below is generated by plot.py at 2018-05-25 15:40:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 85.533 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 83.473 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 84.490 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 86.413 ms
Loss rate: 3.94%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 15:08:11

End at: 2018-05-25 15:08:41

Local clock offset: -3.927 ms

Remote clock offset: 4.152 ms

Below is generated by plot.py at 2018-05-25 15:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 85.300 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 84.766 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 84.913 ms

Loss rate: 1.19%

-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 85.832 ms

Loss rate: 2.66%

Run 10: Report of WebRTC media — Data Link

